Chris Bittner
Utah Division of Water Quality
PO Box 144870
SLC, UT 84114
TEL: (801) 536-4300

RE: MP 44.9

Dear Chris Bittner: Lab Set ID: 1304328

463 West 3600 South
Salt Lake City, UT 84115

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Toll Free: (888) 263-8686
Fax: (801) 263-8687
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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

American West Analytical Laboratories received 20 sample(s) on 4/10/2013 for the analyses presented in the following report.

American West Analytical Laboratories (AWAL) is accredited by The National Environmental Laboratory Accreditation Program (NELAP) in Utah and Texas; and is state accredited in Colorado, Idaho, New Mexico, and Missouri.

All analyses were performed in accordance to the NELAP protocols unless noted otherwise. Accreditation scope documents are available upon request. If you have any questions or concerns regarding this report please feel free to call.

The abbreviation "Surr" found in organic reports indicates a surrogate compound that is intentionally added by the laboratory to determine sample injection, extraction, and/or purging efficiency. The "Reporting Limit" found on the report is equivalent to the practical quantitation limit (PQL). This is the minimum concentration that can be reported by the method referenced and the sample matrix. The reporting limit must not be confused with any regulatory limit. Analytical results are reported to three significant figures for quality control and calculation purposes.

Thank You,

Approved by: Jose G. Rocha

Digitally signed by Jose G. Rocha
DN: cn=Jose G. Rocha, o=American West Analytical Laboratories, ou=Quality Assurance Officer, email=jose@awal-labs.com, c=US
Date: 2013.04.16 17:04:09 -06'00'

Laboratory Director or designee

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Inorganic Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Utah Division of Water Quality
Contact:	Chris Bittner
Project:	MP 44.9
Lab Set ID:	1304328

Sample Receipt Information:

Date of Receipt:	4/10/2013
Date(s) of Collection:	4/10/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None

Holding Time and Preservation Requirements: The analysis and preparation for the samples were performed within the method holding times. The samples were properly preserved.

Preparation and Analysis Requirements: The samples were analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, DUP:

Method Blanks (MB): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicates (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Duplicate (DUP): The parameters that required a duplicate analysis had RPDs within the control limits, with the following exception: On sample 1304328-020D, the RPD was outside of its control limit due suspected sample non-homogeneity or matrix interference.

Corrective Action: None required.

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TPH (DRO) Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Utah Division of Water Quality
Contact:	Chris Bittner
Project:	MP 44.9
Lab Set ID:	1304328

Sample Receipt Information:

Date of Receipt:	4/10/2013
Date of Collection:	4/10/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8015D /3510C
Analysis:	Total Petroleum Hydrocarbon (DRO - C10-28)

General Set Comments: Multiple samples exhibited TPH-DRO above the reporting limit.

Holding Time Requirements: The preparations and analyses of the samples were performed within respective holding times.

Analysis Requirements: The samples were prepared and/or analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blank (MB): No target analytes were detected above reporting limits, evaluated to MDL, indicating the procedure was free from contamination.

Laboratory Control Samples (LCS): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD: All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required**.**

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Semivolatile Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Utah Division of Water Quality
Contact:	Chris Bittner
Project:	MP 44.9
Lab Set ID:	1304328

Sample Receipt Information:

Date of Receipt:	4/10/2013
Date of Collection:	4/10/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8270D/3510C
Analysis:	Semivolatile Organics

General Set Comments: Multiple analytes were observed above reporting limit. The samples were analyzed for TICs.

Holding Time Requirements: The preparations and analyses of the samples were performed within respective holding times.

Preparation Requirements: The samples were prepared and analyzed following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks: No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Sample (LCS): All LCS percent recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, with the following exception: On sample 1304328-001B, multiple RPDs were outside of their control limits due to sample non-homogeneity or matrix interference.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required**.**

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Volatile Case Narrative

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Client:	Utah Division of Water Quality
Contact:	Chris Bittner
Project:	MP 44.9
Lab Set ID:	1304328

Sample Receipt Information:

Date of Receipt:	4/10/2013
Date of Collection:	4/10/2013
Sample Condition:	Intact
C-O-C Discrepancies:	None
Method:	SW-846 8260C/5030C
Analysis:	Volatile Organic Compounds

General Set Comments: Multiple target analytes were observed above reporting limits.

Holding Time and Preservation Requirements: All samples were received in appropriate containers and properly preserved. The analysis and preparation of all samples were performed within the method holding times following the methods stated on the analytical reports.

Analytical QC Requirements: All instrument calibration and calibration check requirements were met. All internal standard recoveries met method criterion.

Batch QC Requirements: MB, LCS, MS, MSD, RPD, and Surrogates:

Method Blanks (MBs): No target analytes were detected above reporting limits, indicating that the procedure was free from contamination.

Laboratory Control Sample (LCSs): All LCS recoveries were within control limits, indicating that the preparation and analysis were in control.

Matrix Spike / Matrix Spike Duplicate (MS/MSD): All percent recoveries and RPDs (Relative Percent Differences) were inside established limits, indicating no apparent matrix interferences.

Surrogates: All surrogate recoveries were within established limits.

Corrective Action: None required.

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INORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-020
Client Sample ID: Below Weirs AB Res
Collection Date: 4/10/2013 1125h
Received Date: 4/10/2013 1635h

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Analytical Results

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Biochemical Oxygen Demand	mg/L	4/10/2013 1500h	4/15/2013 1400h	SM5210B	5.00	< 5.00	
Chemical Oxygen Demand	mg/L		4/11/2013 1000h	HACH 8000	10.0	< 10.0	
Phosphate, Total (as P)	mg/L	4/11/2013 655h	4/11/2013 1202h	SM4500-P-F	0.0500	< 0.0500	
TKN (as N)	mg/L	4/11/2013 915h	4/11/2013 1357h	E351.2	0.500	< 0.500	
Total Dissolved Solids	mg/L		4/10/2013 1720h	SM2540C	20.0	**348**	@
Total Nitrogen (as N)	mg/L		4/11/2013	Calc.	0.500	< 0.500	
Total Suspended Solids	mg/L		4/10/2013 1515h	SM2540D	3.00	**42.0**	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

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Laboratory Director

Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-001C
Client Sample ID: East of I-15 / 4920392
Collection Date: 4/10/2013 800h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 1704h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.209	0.4000	52.3	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-002C
Client Sample ID: S. Marina / 4920495
Collection Date: 4/10/2013 830h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 1724h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.196	0.4000	49.0	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-003C
Client Sample ID: 50' from N. Boom / 4920508
Collection Date: 4/10/2013 940h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 1823h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.139	0.4000	34.8	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-004C
Client Sample ID: North Boom / 4920397
Collection Date: 4/10/2013 950h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 1843h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.166	0.4000	41.4	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-005C
Client Sample ID: W. Boom 5 / 4920499
Collection Date: 4/10/2013 1000h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 1903h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.153	0.4000	38.2	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-006C
Client Sample ID: W. Boom 4 / 4920498
Collection Date: 4/10/2013 1010h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 1922h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.182	0.4000	45.6	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-007C
Client Sample ID: 50' from WB4 / 4920502
Collection Date: 4/10/2013 1020h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 1942h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.163	0.4000	40.7	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-008C
Client Sample ID: W. Boom 3 / 4920497
Collection Date: 4/10/2013 1030h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 2002h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.170	0.4000	42.6	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-009C
Client Sample ID: W. Boom 2 / 4920496
Collection Date: 4/10/2013 1040h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 2022h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.201	0.4000	50.1	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-010C
Client Sample ID: 50' from WB1 / 4920505
Collection Date: 4/10/2013 1050h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 2041h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.203	0.4000	50.7	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-011C
Client Sample ID: W. Boom 1 / 4920396
Collection Date: 4/10/2013 1100h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 2200h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.193	0.4000	48.2	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-012C
Client Sample ID: East of Boom / 4920395
Collection Date: 4/10/2013 1120h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 2220h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.231	0.4000	57.7	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-013C
Client Sample ID: Between Weirs / 4920394
Collection Date: 4/10/2013 1130h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 2239h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.201	0.4000	50.4	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-014C
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 4/10/2013 1135h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 2259h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.200	0.4000	49.9	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-017C
Client Sample ID: French Drain South / 4920398
Collection Date: 4/10/2013 1200h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 2319h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	**0.969**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.224	0.4000	56.0	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-018C
Client Sample ID: French Drain North / 4920399
Collection Date: 4/10/2013 1210h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 2339h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	**1.30**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.214	0.4000	53.5	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-019C
Client Sample ID: East of Boom #3 / 4920400
Collection Date: 4/10/2013 1220h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/12/2013 2359h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	< 0.500	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.214	0.4000	53.6	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-020C
Client Sample ID: Below Weirs AB Res
Collection Date: 4/10/2013 1125h
Received Date: 4/10/2013 1635h

Analytical Results TPH-DRO (C10-C28) by GC/FID Method 8015D/3510C

Analyzed: 4/13/2013 018h **Extracted:** 4/12/2013 907h
Units: mg/L **Dilution Factor:** 1 **Method:** SW8015D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Diesel Range Organics (DRO) (C10-C28)	68476-34-6	0.500	**0.524**	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 4-Bromofluorobenzene	460-00-4	0.173	0.4000	43.3	10-190	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-001B
Client Sample ID: East of I-15 / 4920392
Collection Date: 4/10/2013 800h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1248h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	**0.210**	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-002B
Client Sample ID: S. Marina / 4920495
Collection Date: 4/10/2013 830h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1408h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	**0.140**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-003B
Client Sample ID: 50' from N. Boom / 4920508
Collection Date: 4/10/2013 940h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1434h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-004B
Client Sample ID: North Boom / 4920397
Collection Date: 4/10/2013 950h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1501h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-005B
Client Sample ID: W. Boom 5 / 4920499
Collection Date: 4/10/2013 1000h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1527h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-006B
Client Sample ID: W. Boom 4 / 4920498
Collection Date: 4/10/2013 1010h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1554h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-007B
Client Sample ID: 50' from WB4 / 4920502
Collection Date: 4/10/2013 1020h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1620h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-008B
Client Sample ID: W. Boom 3 / 4920497
Collection Date: 4/10/2013 1030h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 2140h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-009B
Client Sample ID: W. Boom 2 / 4920496
Collection Date: 4/10/2013 1040h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1713h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	**0.120**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-010B
Client Sample ID: 50' from WB1 / 4920505
Collection Date: 4/10/2013 1050h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1740h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	**0.110**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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Laboratory Director

Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-011B
Client Sample ID: W. Boom 1 / 4920396
Collection Date: 4/10/2013 1100h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1807h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	**0.100**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-012B
Client Sample ID: East of Boom / 4920395
Collection Date: 4/10/2013 1120h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1833h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**0.130**	
2-Methylnaphthalene	91-57-6	0.100	**0.160**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**0.100**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-013B
Client Sample ID: Between Weirs / 4920394
Collection Date: 4/10/2013 1130h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1900h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**0.240**	
2-Methylnaphthalene	91-57-6	0.100	**0.190**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-014B
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 4/10/2013 1135h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 2207h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**0.270**	
2-Methylnaphthalene	91-57-6	0.100	**0.210**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-017B
Client Sample ID: French Drain South / 4920398
Collection Date: 4/10/2013 1200h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 2233h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**2.82**	
2-Methylnaphthalene	91-57-6	0.100	**2.13**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	**0.250**	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**1.55**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-018B
Client Sample ID: French Drain North / 4920399
Collection Date: 4/10/2013 1210h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 2300h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**2.74**	
2-Methylnaphthalene	91-57-6	0.100	**2.73**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	**0.250**	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**2.56**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-019B
Client Sample ID: East of Boom #3 / 4920400
Collection Date: 4/10/2013 1220h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 2327h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	< 0.100	
2-Methylnaphthalene	91-57-6	0.100	< 0.100	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	< 0.100	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-020B
Client Sample ID: Below Weirs AB Res
Collection Date: 4/10/2013 1125h
Received Date: 4/10/2013 1635h

Analytical Results SVOA PNA SIM List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 2353h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1-Methylnaphthalene	90-12-0	0.100	**0.200**	
2-Methylnaphthalene	91-57-6	0.100	**0.170**	
Acenaphthene	83-32-9	0.100	< 0.100	
Acenaphthylene	208-96-8	0.100	< 0.100	
Anthracene	120-12-7	0.100	< 0.100	
Benz(a)anthracene	56-55-3	0.100	< 0.100	
Benzo(a)pyrene	50-32-8	0.100	< 0.100	
Benzo(b)fluoranthene	205-99-2	0.100	< 0.100	
Benzo(g,h,i)perylene	191-24-2	0.100	< 0.100	
Benzo(k)fluoranthene	207-08-9	0.100	< 0.100	
Chrysene	218-01-9	0.100	< 0.100	
Dibenz(a,h)anthracene	53-70-3	0.100	< 0.100	
Fluoranthene	206-44-0	0.100	< 0.100	
Fluorene	86-73-7	0.100	< 0.100	
Indene	95-13-6	0.100	< 0.100	
Indeno(1,2,3-cd)pyrene	193-39-5	0.100	< 0.100	
Naphthalene	91-20-3	0.100	**0.120**	
Phenanthrene	85-01-8	0.100	< 0.100	
Pyrene	129-00-0	0.100	< 0.100	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-001B
Client Sample ID: East of I-15 / 4920392
Collection Date: 4/10/2013 800h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1716h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	@
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	@
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	@
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Lab Sample ID: 1304328-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/12/2013 1716h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Lab Sample ID: 1304328-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/12/2013 1716h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/12/2013 1716h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	@
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-001B
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/12/2013 1716h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	67.2	80.00	84.0	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	24.1	40.00	60.3	10-124	
Surr: 2-Fluorophenol	367-12-4	18.4	80.00	23.0	10-106	
Surr: Nitrobenzene-d5	4165-60-0	17.7	40.00	44.2	10-180	
Surr: Phenol-d6	13127-88-3	13.4	80.00	16.7	10-122	
Surr: Terphenyl-d14	1718-51-0	44.5	40.00	111	10-221	

@ - High RPD due to suspected sample non-homogeneity or matrix interference.
This sample was analyzed for TICs and no unknown peaks were detected.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-002B
Client Sample ID: S. Marina / 4920495
Collection Date: 4/10/2013 830h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 339h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-002B
Client Sample ID: S. Marina / 4920495

Analyzed: 4/12/2013 339h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-002B
Client Sample ID: S. Marina / 4920495

Analyzed: 4/12/2013 339h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-002B
Client Sample ID: S. Marina / 4920495

Analyzed: 4/12/2013 339h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-002B
Client Sample ID: S. Marina / 4920495

Analyzed: 4/12/2013 339h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	78.0	80.00	97.6	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	16.2	40.00	40.4	10-124	
Surr: 2-Fluorophenol	367-12-4	24.5	80.00	30.6	10-106	
Surr: Nitrobenzene-d5	4165-60-0	13.6	40.00	34.0	10-180	
Surr: Phenol-d6	13127-88-3	17.5	80.00	21.9	10-122	
Surr: Terphenyl-d14	1718-51-0	32.2	40.00	80.6	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-003B
Client Sample ID: 50' from N. Boom / 4920508
Collection Date: 4/10/2013 940h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 403h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-003B
Client Sample ID: 50' from N. Boom / 4920508

Analyzed: 4/12/2013 403h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-003B
Client Sample ID: 50' from N. Boom / 4920508

Analyzed: 4/12/2013 403h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-003B
Client Sample ID: 50' from N. Boom / 4920508

Analyzed: 4/12/2013 403h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-003B

Client Sample ID: 50' from N. Boom / 4920508

Analyzed: 4/12/2013 403h **Extracted:** 4/11/2013 806h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	76.0	80.00	95.0	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	20.8	40.00	52.1	10-124	
Surr: 2-Fluorophenol	367-12-4	28.4	80.00	35.5	10-106	
Surr: Nitrobenzene-d5	4165-60-0	16.4	40.00	41.1	10-180	
Surr: Phenol-d6	13127-88-3	19.5	80.00	24.4	10-122	
Surr: Terphenyl-d14	1718-51-0	36.6	40.00	91.4	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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Kyle F. Gross
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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-004B
Client Sample ID: North Boom / 4920397
Collection Date: 4/10/2013 950h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1407h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Jose Rocha
QA Officer

Lab Sample ID: 1304328-004B
Client Sample ID: North Boom / 4920397

Analyzed: 4/12/2013 1407h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Lab Sample ID: 1304328-004B
Client Sample ID: North Boom / 4920397

Analyzed: 4/12/2013 1407h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-004B
Client Sample ID: North Boom / 4920397

Analyzed: 4/12/2013 1407h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-004B
Client Sample ID: North Boom / 4920397

Analyzed: 4/12/2013 1407h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	80.6	80.00	101	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	20.8	40.00	52.1	10-124	
Surr: 2-Fluorophenol	367-12-4	28.6	80.00	35.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	16.3	40.00	40.7	10-180	
Surr: Phenol-d6	13127-88-3	20.9	80.00	26.2	10-122	
Surr: Terphenyl-d14	1718-51-0	41.8	40.00	104	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-005B
Client Sample ID: W. Boom 5 / 4920499
Collection Date: 4/10/2013 1000h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 449h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-005B
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/12/2013 449h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-005B
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/12/2013 449h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-005B
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/12/2013 449h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-005B
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/12/2013 449h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	81.5	80.00	102	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	21.5	40.00	53.8	10-124	
Surr: 2-Fluorophenol	367-12-4	27.2	80.00	33.9	10-106	
Surr: Nitrobenzene-d5	4165-60-0	17.6	40.00	44.0	10-180	
Surr: Phenol-d6	13127-88-3	19.6	80.00	24.6	10-122	
Surr: Terphenyl-d14	1718-51-0	42.0	40.00	105	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-006B
Client Sample ID: W. Boom 4 / 4920498
Collection Date: 4/10/2013 1010h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 512h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-006B
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/12/2013 512h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-006B
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/12/2013 512h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-006B
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/12/2013 512h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-006B
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/12/2013 512h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	73.8	80.00	92.2	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	19.4	40.00	48.5	10-124	
Surr: 2-Fluorophenol	367-12-4	25.4	80.00	31.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	16.2	40.00	40.5	10-180	
Surr: Phenol-d6	13127-88-3	17.5	80.00	21.9	10-122	
Surr: Terphenyl-d14	1718-51-0	38.5	40.00	96.4	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-007B
Client Sample ID: 50' from WB4 / 4920502
Collection Date: 4/10/2013 1020h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 535h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
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1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Jose Rocha
QA Officer

Lab Sample ID: 1304328-007B
Client Sample ID: 50' from WB4 / 4920502

Analyzed: 4/12/2013 535h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
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Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Jose Rocha
QA Officer

Lab Sample ID: 1304328-007B
Client Sample ID: 50' from WB4 / 4920502

Analyzed: 4/12/2013 535h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-007B
Client Sample ID: 50' from WB4 / 4920502

Analyzed: 4/12/2013 535h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-007B
Client Sample ID: 50' from WB4 / 4920502

Analyzed: 4/12/2013 535h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	79.5	80.00	99.3	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	21.0	40.00	52.6	10-124	
Surr: 2-Fluorophenol	367-12-4	28.3	80.00	35.4	10-106	
Surr: Nitrobenzene-d5	4165-60-0	16.2	40.00	40.4	10-180	
Surr: Phenol-d6	13127-88-3	20.1	80.00	25.1	10-122	
Surr: Terphenyl-d14	1718-51-0	37.5	40.00	93.7	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-008B
Client Sample ID: W. Boom 3 / 4920497
Collection Date: 4/10/2013 1030h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 819h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-008B
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/12/2013 819h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-008B
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/12/2013 819h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Jose Rocha
QA Officer

Lab Sample ID: 1304328-008B
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/12/2013 819h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-008B
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/12/2013 819h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	78.2	80.00	97.7	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	24.4	40.00	61.0	10-124	
Surr: 2-Fluorophenol	367-12-4	31.0	80.00	38.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	17.3	40.00	43.2	10-180	
Surr: Phenol-d6	13127-88-3	21.2	80.00	26.6	10-122	
Surr: Terphenyl-d14	1718-51-0	43.6	40.00	109	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-009B
Client Sample ID: W. Boom 2 / 4920496
Collection Date: 4/10/2013 1040h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 842h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-009B
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/12/2013 842h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-009B
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/12/2013 842h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-009B
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/12/2013 842h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-009B
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/12/2013 842h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	72.0	80.00	90.0	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	26.9	40.00	67.2	10-124	
Surr: 2-Fluorophenol	367-12-4	29.1	80.00	36.4	10-106	
Surr: Nitrobenzene-d5	4165-60-0	19.4	40.00	48.4	10-180	
Surr: Phenol-d6	13127-88-3	20.0	80.00	25.0	10-122	
Surr: Terphenyl-d14	1718-51-0	41.7	40.00	104	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-010B
Client Sample ID: 50' from WB1 / 4920505
Collection Date: 4/10/2013 1050h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 905h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
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1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
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Lab Sample ID: 1304328-010B
Client Sample ID: 50' from WB1 / 4920505

Analyzed: 4/12/2013 905h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-010B
Client Sample ID: 50' from WB1 / 4920505

Analyzed: 4/12/2013 905h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Lab Sample ID: 1304328-010B
Client Sample ID: 50' from WB1 / 4920505

Analyzed: 4/12/2013 905h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-010B
Client Sample ID: 50' from WB1 / 4920505

Analyzed: 4/12/2013 905h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	61.2	80.00	76.6	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	17.3	40.00	43.4	10-124	
Surr: 2-Fluorophenol	367-12-4	18.8	80.00	23.5	10-106	
Surr: Nitrobenzene-d5	4165-60-0	12.4	40.00	31.1	10-180	
Surr: Phenol-d6	13127-88-3	14.3	80.00	17.9	10-122	
Surr: Terphenyl-d14	1718-51-0	44.6	40.00	112	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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Kyle F. Gross
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-011B
Client Sample ID: W. Boom 1 / 4920396
Collection Date: 4/10/2013 1100h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 929h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Lab Sample ID: 1304328-011B
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/12/2013 929h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Lab Sample ID: 1304328-011B
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/12/2013 929h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-011B
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/12/2013 929h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	70.9	80.00	88.6	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	25.6	40.00	64.1	10-124	
Surr: 2-Fluorophenol	367-12-4	28.2	80.00	35.3	10-106	
Surr: Nitrobenzene-d5	4165-60-0	18.4	40.00	46.0	10-180	
Surr: Phenol-d6	13127-88-3	19.3	80.00	24.1	10-122	
Surr: Terphenyl-d14	1718-51-0	38.8	40.00	97.1	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-012B
Client Sample ID: East of Boom / 4920395
Collection Date: 4/10/2013 1120h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 952h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-012B
Client Sample ID: East of Boom / 4920395

Analyzed: 4/12/2013 952h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-012B
Client Sample ID: East of Boom / 4920395

Analyzed: 4/12/2013 952h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-012B
Client Sample ID: East of Boom / 4920395

Analyzed: 4/12/2013 952h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-012B
Client Sample ID: East of Boom / 4920395

Analyzed: 4/12/2013 952h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	67.3	80.00	84.1	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	26.4	40.00	66.0	10-124	
Surr: 2-Fluorophenol	367-12-4	24.7	80.00	30.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	18.0	40.00	45.1	10-180	
Surr: Phenol-d6	13127-88-3	18.0	80.00	22.5	10-122	
Surr: Terphenyl-d14	1718-51-0	41.0	40.00	102	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-013B
Client Sample ID: Between Weirs / 4920394
Collection Date: 4/10/2013 1130h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 2202h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Jose Rocha
QA Officer

Lab Sample ID: 1304328-013B
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/12/2013 2202h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-013B
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/12/2013 2202h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Jose Rocha
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Lab Sample ID: 1304328-013B
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/12/2013 2202h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1H-Indole-3-carboxaldehyde, 2,3-…	078610-70-5		4.54	JN
TIC: 4H-3,1-Benzoxazin-4-one, 2-methyl-	054789-69-4		4.27	JN
TIC: Benzene, 1-ethyl-3,5-diisopropyl-	015181-13-2		5.19	JN

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Lab Sample ID: 1304328-013B

Client Sample ID: Between Weirs / 4920394

Analyzed: 4/12/2013 2202h **Extracted:** 4/11/2013 806h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	69.2	80.00	86.5	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	14.1	40.00	35.1	10-124	
Surr: 2-Fluorophenol	367-12-4	20.3	80.00	25.4	10-106	
Surr: Nitrobenzene-d5	4165-60-0	12.3	40.00	30.8	10-180	
Surr: Phenol-d6	13127-88-3	13.8	80.00	17.2	10-122	
Surr: Terphenyl-d14	1718-51-0	31.9	40.00	79.7	10-221	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-014B
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 4/10/2013 1135h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1038h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Lab Sample ID: 1304328-014B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/12/2013 1038h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Lab Sample ID: 1304328-014B
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/12/2013 1038h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Lab Sample ID: 1304328-014B
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Analyzed: 4/12/2013 1038h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-014B

Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/12/2013 1038h **Extracted:** 4/11/2013 806h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	64.5	80.00	80.7	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	22.0	40.00	54.9	10-124	
Surr: 2-Fluorophenol	367-12-4	20.9	80.00	26.2	10-106	
Surr: Nitrobenzene-d5	4165-60-0	18.2	40.00	45.5	10-180	
Surr: Phenol-d6	13127-88-3	14.5	80.00	18.1	10-122	
Surr: Terphenyl-d14	1718-51-0	41.5	40.00	104	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-017B
Client Sample ID: French Drain South / 4920398
Collection Date: 4/10/2013 1200h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1101h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-017B
Client Sample ID: French Drain South / 4920398

Analyzed: 4/12/2013 1101h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-017B
Client Sample ID: French Drain South / 4920398

Analyzed: 4/12/2013 1101h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-017B
Client Sample ID: French Drain South / 4920398

Analyzed: 4/12/2013 1101h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1H-Indene, 2,3-dihydro-5-methyl-	000874-35-1		15.8	JN
TIC: 2,2-Dimethylindene, 2,3-dihydro-	020836-11-7		8.70	JN
TIC: Acrylophenone 2,2,5-trimethyl-	016205-96-2		6.02	JN

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-017B
Client Sample ID: French Drain South / 4920398

Analyzed: 4/12/2013 1101h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: Benzene, 1-(1-methylethenyl)-3-(…	001129-29-9		7.88	JN
TIC: Benzene, 1,2,3,5-tetramethyl-	000527-53-7		7.11	JN
TIC: Benzene, 1,2,3-trimethyl-	000526-73-8		14.9	JN
TIC: Benzene, 1,3-dimethyl-	000108-38-3		6.16	JN
TIC: Benzene, 1-methyl-3-(1-methyleth…	000535-77-3		8.76	JN
TIC: Benzene, 2-ethenyl-1,3,5-trimethyl-	000769-25-5		13.8	JN
TIC: Naphthalene, 1,2,3,4-tetrahydro-	000119-64-2		15.6	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	88.3	80.00	110	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	20.7	40.00	51.8	10-124	
Surr: 2-Fluorophenol	367-12-4	20.2	80.00	25.3	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.4	40.00	38.6	10-180	
Surr: Phenol-d6	13127-88-3	14.6	80.00	18.3	10-122	
Surr: Terphenyl-d14	1718-51-0	39.7	40.00	99.4	10-221	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-018B
Client Sample ID: French Drain North / 4920399
Collection Date: 4/10/2013 1210h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1124h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-018B
Client Sample ID: French Drain North / 4920399

Analyzed: 4/12/2013 1124h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-018B
Client Sample ID: French Drain North / 4920399

Analyzed: 4/12/2013 1124h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-018B
Client Sample ID: French Drain North / 4920399

Analyzed: 4/12/2013 1124h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1(2H)-Naphthalenone, 3,4-dihydro…	014944-23-1		9.88	JN
TIC: 4-isopropyl-1,6-dimethyl-1,2,3,4…	1000378-99-6		9.27	JN
TIC: Benzene, (3-methyl-2-butenyl)-	004489-84-3		13.0	JN

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Lab Sample ID: 1304328-018B
Client Sample ID: French Drain North / 4920399

Analyzed: 4/12/2013 1124h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
TIC: Benzene, 1,2,3,5-tetramethyl-	000527-53-7		9.49	JN
TIC: Benzene, 1,2,3-trimethyl-	000526-73-8		20.2	JN
TIC: Benzene, 1,3-dimethyl-	000108-38-3		12.8	JN
TIC: Benzene, 1-ethenyl-4-ethyl-	003454-07-7		24.6	JN
TIC: Benzene, 2-ethyl-1,4-dimethyl-	001758-88-9		11.3	JN
TIC: Indane	000496-11-7		10.4	JN
TIC: Naphthalene, 1,2,3,4-tetrahydro-	000119-64-2		24.4	JN

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	81.6	80.00	102	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	19.7	40.00	49.2	10-124	
Surr: 2-Fluorophenol	367-12-4	22.0	80.00	27.6	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.6	40.00	39.0	10-180	
Surr: Phenol-d6	13127-88-3	15.9	80.00	19.9	10-122	
Surr: Terphenyl-d14	1718-51-0	36.6	40.00	91.6	10-221	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-019B
Client Sample ID: East of Boom #3 / 4920400
Collection Date: 4/10/2013 1220h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/12/2013 1147h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-019B
Client Sample ID: East of Boom #3 / 4920400

Analyzed: 4/12/2013 1147h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Lab Sample ID: 1304328-019B
Client Sample ID: East of Boom #3 / 4920400

Analyzed: 4/12/2013 1147h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-019B
Client Sample ID: East of Boom #3 / 4920400

Analyzed: 4/12/2013 1147h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	

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Lab Sample ID: 1304328-019B

Client Sample ID: East of Boom #3 / 4920400

Analyzed: 4/12/2013 1147h **Extracted:** 4/11/2013 806h

Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	66.3	80.00	82.9	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	20.3	40.00	50.7	10-124	
Surr: 2-Fluorophenol	367-12-4	25.4	80.00	31.8	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.7	40.00	39.2	10-180	
Surr: Phenol-d6	13127-88-3	17.6	80.00	22.0	10-122	
Surr: Terphenyl-d14	1718-51-0	37.2	40.00	93.1	10-221	

This sample was analyzed for TICs and no unknown peaks were detected.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-020B
Client Sample ID: Below Weirs AB Res
Collection Date: 4/10/2013 1125h
Received Date: 4/10/2013 1635h

Analytical Results SVOA List by GC/MS Method 8270D/3510C

Analyzed: 4/15/2013 2050h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1´-Biphenyl	92-52-4	10.0	< 10.0	
1,2,4,5-Tetrachlorobenzene	95-94-3	10.0	< 10.0	
1,2,4-Trichlorobenzene	120-82-1	10.0	< 10.0	
1,2-Dichlorobenzene	95-50-1	10.0	< 10.0	
1,3,5-Trinitrobenzene	99-35-4	10.0	< 10.0	
1,3-Dichlorobenzene	541-73-1	10.0	< 10.0	
1,3-Dinitrobenzene	99-65-0	10.0	< 10.0	
1,4-Dichlorobenzene	106-46-7	10.0	< 10.0	
1,4-Dinitrobenzene	100-25-4	10.0	< 10.0	
1,4-Naphthoquinone	130-15-4	10.0	< 10.0	
1,4-Phenylenediamine	106-50-3	10.0	< 10.0	
1-Chloronaphthalene	90-13-1	10.0	< 10.0	
1-Methylnaphthalene	90-12-0	10.0	< 10.0	
1-Naphthylamine	134-32-7	10.0	< 10.0	
2,3,4,6-Tetrachlorophenol	58-90-2	10.0	< 10.0	
2,4,5-Trichlorophenol	95-95-4	10.0	< 10.0	
2,4,6-Trichlorophenol	88-06-2	10.0	< 10.0	
2,4-Dichlorophenol	120-83-2	10.0	< 10.0	
2,4-Dimethylphenol	105-67-9	10.0	< 10.0	
2,4-Dinitrophenol	51-28-5	10.0	< 10.0	
2,4-Dinitrotoluene	121-14-2	10.0	< 10.0	
2,6-Dichlorophenol	87-65-0	10.0	< 10.0	
2,6-Dinitrotoluene	606-20-2	10.0	< 10.0	
2-Acetylaminofluorene	53-96-3	10.0	< 10.0	
2-Chloronaphthalene	91-58-7	10.0	< 10.0	
2-Chlorophenol	95-57-8	10.0	< 10.0	
2-Methylnaphthalene	91-57-6	10.0	< 10.0	
2-Methylphenol	95-48-7	10.0	< 10.0	
2-Naphthylamine	91-59-8	10.0	< 10.0	
2-Nitroaniline	88-74-4	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-020B
Client Sample ID: Below Weirs AB Res

Analyzed: 4/15/2013 2050h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
2-Nitrophenol	88-75-5	10.0	< 10.0	
2-Picoline	109-06-8	10.0	< 10.0	
3&4-Methylphenol		10.0	< 10.0	
3,3´-Dichlorobenzidine	91-94-1	10.0	< 10.0	
3,3´-Dimethylbenzidine	119-93-7	10.0	< 10.0	
3-Methylcholanthrene	56-49-5	10.0	< 10.0	
3-Nitroaniline	99-09-2	10.0	< 10.0	
4,6-Dinitro-2-methylphenol	534-52-1	10.0	< 10.0	
4-Aminobiphenyl	92-67-1	10.0	< 10.0	
4-Bromophenyl phenyl ether	101-55-3	10.0	< 10.0	
4-Chloro-3-methylphenol	59-50-7	10.0	< 10.0	
4-Chloroaniline	106-47-8	10.0	< 10.0	
4-Chlorophenyl phenyl ether	7005-72-3	10.0	< 10.0	
4-Nitroaniline	100-01-6	10.0	< 10.0	
4-Nitrophenol	100-02-7	10.0	< 10.0	
5-Nitro-o-toluidine	99-55-8	10.0	< 10.0	
7,12-Dimethylbenz(a)anthracene	57-97-6	10.0	< 10.0	
a,a-Dimethylphenethylamine	122-09-8	10.0	< 10.0	
Acenaphthene	83-32-9	10.0	< 10.0	
Acenaphthylene	208-96-8	10.0	< 10.0	
Acetophenone	98-86-2	10.0	< 10.0	
alpha-Terpineol	98-55-5	10.0	< 10.0	
Aniline	62-53-3	10.0	< 10.0	
Anthracene	120-12-7	10.0	< 10.0	
Aramite	140-57-8	10.0	< 10.0	
Atrazine	1912-24-9	10.0	< 10.0	
Azobenzene	103-33-3	10.0	< 10.0	
Benz(a)anthracene	56-55-3	10.0	< 10.0	
Benzaldehyde	100-52-7	10.0	< 10.0	
Benzidine	92-87-5	10.0	< 10.0	
Benzo(a)pyrene	50-32-8	10.0	< 10.0	
Benzo(b)fluoranthene	205-99-2	10.0	< 10.0	
Benzo(g,h,i)perylene	191-24-2	10.0	< 10.0	
Benzo(k)fluoranthene	207-08-9	10.0	< 10.0	
Benzoic acid	65-85-0	20.0	< 20.0	
Benzyl alcohol	100-51-6	10.0	< 10.0	
Bis(2-chloroethoxy)methane	111-91-1	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-020B
Client Sample ID: Below Weirs AB Res

Analyzed: 4/15/2013 2050h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Bis(2-chloroethyl) ether	111-44-4	10.0	< 10.0	
Bis(2-chloroisopropyl) ether	108-60-1	10.0	< 10.0	
Bis(2-ethylhexyl) phthalate	117-81-7	10.0	< 10.0	
bis(2-ethylhexyl)adipate	103-23-1	10.0	< 10.0	
Butyl benzyl phthalate	85-68-7	10.0	< 10.0	
Caprolactam	105-60-2	10.0	< 10.0	
Carbazole	86-74-8	10.0	< 10.0	
Chlorobenzilate	510-15-6	10.0	< 10.0	
Chrysene	218-01-9	10.0	< 10.0	
Di-n-butyl phthalate	84-74-2	10.0	< 10.0	
Di-n-octyl phthalate	117-84-0	10.0	< 10.0	
Diallate (cis or trans)	2303-16-4	10.0	< 10.0	
Dibenz(a,h)anthracene	53-70-3	10.0	< 10.0	
Dibenzofuran	132-64-9	10.0	< 10.0	
Diethyl phthalate	84-66-2	10.0	< 10.0	
Dimethoate	60-51-5	10.0	< 10.0	
Dimethyl phthalate	131-11-3	10.0	< 10.0	
Dimethylaminoazobenzene	60-11-7	10.0	< 10.0	
Dinoseb	88-85-7	10.0	< 10.0	
Diphenylamine	122-39-4	10.0	< 10.0	
Disulfoton	298-04-4	10.0	< 10.0	
Ethyl methanesulfonate	62-50-0	10.0	< 10.0	
Famphur	52-85-7	10.0	< 10.0	
Fluoranthene	206-44-0	10.0	< 10.0	
Fluorene	86-73-7	10.0	< 10.0	
Hexachlorobenzene	118-74-1	10.0	< 10.0	
Hexachlorobutadiene	87-68-3	10.0	< 10.0	
Hexachlorocyclopentadiene	77-47-4	10.0	< 10.0	
Hexachloroethane	67-72-1	10.0	< 10.0	
Hexachlorophene	70-30-4	10.0	< 10.0	
Hexachloropropene	1888-71-7	10.0	< 10.0	
Indene	95-13-6	10.0	< 10.0	
Indeno(1,2,3-cd)pyrene	193-39-5	10.0	< 10.0	
Isodrin	465-73-6	10.0	< 10.0	
Isophorone	78-59-1	10.0	< 10.0	
Isosafrole	120-58-1	10.0	< 10.0	
Kepone	143-50-0	10.0	< 10.0	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-020B
Client Sample ID: Below Weirs AB Res

Analyzed: 4/15/2013 2050h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Methapyrilene	91-80-5	10.0	< 10.0	
Methyl methanesulfonate	66-27-3	10.0	< 10.0	
n-Decane	124-18-5	10.0	< 10.0	
N-Nitrosodi-n-butylamine	924-16-3	10.0	< 10.0	
N-Nitrosodiethylamine	55-18-5	10.0	< 10.0	
N-Nitrosodimethylamine	62-75-9	10.0	< 10.0	
N-Nitrosodiphenylamine	86-30-6	10.0	< 10.0	
N-Nitrosodi-n-propylamine	621-64-7	10.0	< 10.0	
N-Nitrosomethylethylamine	10595-95-6	10.0	< 10.0	
N-Nitrosomorpholine	59-89-2	10.0	< 10.0	
N-Nitrosopiperidine	100-75-4	10.0	< 10.0	
N-Nitrosopyrrolidine	930-55-2	10.0	< 10.0	
n-Octadecane	593-45-3	10.0	< 10.0	
Naphthalene	91-20-3	10.0	< 10.0	
Nitrobenzene	98-95-3	10.0	< 10.0	
Nitroquinoline-1-oxide	56-57-5	10.0	< 10.0	
O,O,O-Triethyl phosphorothioate	126-68-1	10.0	< 10.0	
o-Toluidine	95-53-4	10.0	< 10.0	
Parathion	56-38-2	10.0	< 10.0	
Methyl parathion	298-00-0	10.0	< 10.0	
Pentachlorobenzene	608-93-5	10.0	< 10.0	
Pentachloronitrobenzene	82-68-8	10.0	< 10.0	
Pentachlorophenol	87-86-5	10.0	< 10.0	
Phenacetin	62-44-2	10.0	< 10.0	
Phenanthrene	85-01-8	10.0	< 10.0	
Phenol	108-95-2	10.0	< 10.0	
Phorate	298-02-2	10.0	< 10.0	
Pronamide	23950-58-5	10.0	< 10.0	
Pyrene	129-00-0	10.0	< 10.0	
Pyridine	110-86-1	10.0	< 10.0	
Quinoline	91-22-5	10.0	< 10.0	
Safrole	94-59-7	10.0	< 10.0	
Tetraethyl dithiopyrophosphate	3689-24-5	10.0	< 10.0	
Thionazin	297-97-2	10.0	< 10.0	
TIC: 1H-Indole-2,3-dione, 1-methyl-, …	003265-23-4		5.45	JN
TIC: Benzene, 1,2,3,4-tetramethyl-5-(…	061142-67-4		4.58	JN
TIC: Naphthalene, 1,2,3,4-tetrahydro-…	000483-77-2		4.02	JN

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Lab Sample ID: 1304328-020B
Client Sample ID: Below Weirs AB Res

Analyzed: 4/15/2013 2050h **Extracted:** 4/11/2013 806h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8270D

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 2,4,6-Tribromophenol	118-79-6	54.3	80.00	67.9	14-159	
Surr: 2-Fluorobiphenyl	321-60-8	16.1	40.00	40.2	10-124	
Surr: 2-Fluorophenol	367-12-4	25.6	80.00	32.0	10-106	
Surr: Nitrobenzene-d5	4165-60-0	15.8	40.00	39.5	10-180	
Surr: Phenol-d6	13127-88-3	17.4	80.00	21.7	10-122	
Surr: Terphenyl-d14	1718-51-0	35.3	40.00	88.2	10-221	

J - This flag indicates an estimated value.
N - This flag indicates presumptive evidence of a compound.
This sample was analyzed for TICs.

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-001A
Client Sample ID: East of I-15 / 4920392
Collection Date: 4/10/2013 800h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/10/2013 1844h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/10/2013 1844h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/10/2013 1844h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1304328-001A
Client Sample ID: East of I-15 / 4920392

Analyzed: 4/10/2013 1844h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.0	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.4	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.8	50.00	106	80-124	
Surr: Toluene-d8	2037-26-5	49.3	50.00	98.6	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-002A
Client Sample ID: S. Marina / 4920495
Collection Date: 4/10/2013 830h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/10/2013 1903h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-002A
Client Sample ID: S. Marina / 4920495

Analyzed: 4/10/2013 1903h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-002A
Client Sample ID: S. Marina / 4920495

Analyzed: 4/10/2013 1903h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1304328-002A
Client Sample ID: S. Marina / 4920495

Analyzed: 4/10/2013 1903h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.3	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	54.0	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.7	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	50.0	50.00	100	77-129	

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-003A
Client Sample ID: 50' from N. Boom / 4920508
Collection Date: 4/10/2013 940h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/10/2013 1922h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Kyle F. Gross
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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-003A
Client Sample ID: 50' from N. Boom / 4920508

Analyzed: 4/10/2013 1922h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-003A
Client Sample ID: 50' from N. Boom / 4920508

Analyzed: 4/10/2013 1922h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-003A
Client Sample ID: 50' from N. Boom / 4920508

Analyzed: 4/10/2013 1922h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.6	50.00	107	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.9	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.4	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.4	50.00	98.9	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-004A
Client Sample ID: North Boom / 4920397
Collection Date: 4/10/2013 950h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/10/2013 1941h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-004A
Client Sample ID: North Boom / 4920397

Analyzed: 4/10/2013 1941h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-004A
Client Sample ID: North Boom / 4920397

Analyzed: 4/10/2013 1941h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1304328-004A
Client Sample ID: North Boom / 4920397

Analyzed: 4/10/2013 1941h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.8	50.00	112	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.9	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.5	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	50.0	50.00	100	77-129	

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-005A
Client Sample ID: W. Boom 5 / 4920499
Collection Date: 4/10/2013 1000h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/10/2013 2000h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-005A
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/10/2013 2000h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-005A
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/10/2013 2000h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-005A
Client Sample ID: W. Boom 5 / 4920499

Analyzed: 4/10/2013 2000h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.4	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.1	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.6	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.4	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-006A
Client Sample ID: W. Boom 4 / 4920498
Collection Date: 4/10/2013 1010h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/10/2013 2019h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-006A
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/10/2013 2019h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-006A
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/10/2013 2019h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-006A
Client Sample ID: W. Boom 4 / 4920498

Analyzed: 4/10/2013 2019h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.9	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.3	50.00	98.7	77-129	

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Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-007A
Client Sample ID: 50' from WB4 / 4920502
Collection Date: 4/10/2013 1020h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/10/2013 2038h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-007A
Client Sample ID: 50' from WB4 / 4920502

Analyzed: 4/10/2013 2038h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-007A
Client Sample ID: 50' from WB4 / 4920502

Analyzed: 4/10/2013 2038h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-007A
Client Sample ID: 50' from WB4 / 4920502

Analyzed: 4/10/2013 2038h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	53.9	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.7	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.7	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.4	50.00	98.8	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-008A
Client Sample ID: W. Boom 3 / 4920497
Collection Date: 4/10/2013 1030h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/10/2013 2057h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-008A
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/10/2013 2057h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Jose Rocha
QA Officer

Lab Sample ID: 1304328-008A
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/10/2013 2057h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-008A
Client Sample ID: W. Boom 3 / 4920497

Analyzed: 4/10/2013 2057h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.6	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.0	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.4	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	49.7	50.00	99.4	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-009A
Client Sample ID: W. Boom 2 / 4920496
Collection Date: 4/10/2013 1040h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 020h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-009A
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/11/2013 020h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-009A
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/11/2013 020h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-009A
Client Sample ID: W. Boom 2 / 4920496

Analyzed: 4/11/2013 020h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.4	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.8	50.00	108	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.6	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.1	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-010A
Client Sample ID: 50' from WB1 / 4920505
Collection Date: 4/10/2013 1050h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 136h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-010A
Client Sample ID: 50' from WB1 / 4920505

Analyzed: 4/11/2013 136h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Jose Rocha
QA Officer

Lab Sample ID: 1304328-010A
Client Sample ID: 50' from WB1 / 4920505

Analyzed: 4/11/2013 136h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1304328-010A
Client Sample ID: 50' from WB1 / 4920505

Analyzed: 4/11/2013 136h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.9	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	55.4	50.00	111	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.3	50.00	105	80-124	
Surr: Toluene-d8	2037-26-5	50.4	50.00	101	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-011A
Client Sample ID: W. Boom 1 / 4920396
Collection Date: 4/10/2013 1100h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 155h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-011A
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/11/2013 155h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Jose Rocha
QA Officer

Lab Sample ID: 1304328-011A
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/11/2013 155h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-011A
Client Sample ID: W. Boom 1 / 4920396

Analyzed: 4/11/2013 155h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.1	50.00	108	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.6	50.00	105	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.9	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	48.6	50.00	97.2	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-012A
Client Sample ID: East of Boom / 4920395
Collection Date: 4/10/2013 1120h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 214h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-012A
Client Sample ID: East of Boom / 4920395

Analyzed: 4/11/2013 214h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-012A
Client Sample ID: East of Boom / 4920395

Analyzed: 4/11/2013 214h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1304328-012A
Client Sample ID: East of Boom / 4920395

Analyzed: 4/11/2013 214h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.5	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.1	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.4	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	48.9	50.00	97.9	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-013A
Client Sample ID: Between Weirs / 4920394
Collection Date: 4/10/2013 1130h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 233h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-013A
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/11/2013 233h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-013A
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/11/2013 233h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1304328-013A
Client Sample ID: Between Weirs / 4920394

Analyzed: 4/11/2013 233h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.2	50.00	110	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	52.2	50.00	104	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.1	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.3	50.00	101	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-014A
Client Sample ID: Between Weirs Dup / 4920394
Collection Date: 4/10/2013 1135h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 252h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-014A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/11/2013 252h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Kyle F. Gross
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Jose Rocha
QA Officer

Lab Sample ID: 1304328-014A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/11/2013 252h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1304328-014A
Client Sample ID: Between Weirs Dup / 4920394

Analyzed: 4/11/2013 252h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.6	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	51.5	50.00	103	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.5	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.1	50.00	98.2	77-129	

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Laboratory Director

Jose Rocha
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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-015A
Client Sample ID: Field Blank
Collection Date: 4/10/2013 1230h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 311h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-015A
Client Sample ID: Field Blank

Analyzed: 4/11/2013 311h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-015A
Client Sample ID: Field Blank

Analyzed: 4/11/2013 311h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Lab Sample ID: 1304328-015A
Client Sample ID: Field Blank

Analyzed: 4/11/2013 311h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	55.5	50.00	111	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.1	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.6	50.00	103	80-124	
Surr: Toluene-d8	2037-26-5	49.6	50.00	99.2	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-016A
Client Sample ID: Trip Blank
Collection Date: 4/10/2013
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 330h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-016A
Client Sample ID: Trip Blank

Analyzed: 4/11/2013 330h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-016A
Client Sample ID: Trip Blank

Analyzed: 4/11/2013 330h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1304328-016A
Client Sample ID: Trip Blank

Analyzed: 4/11/2013 330h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	56.6	50.00	113	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.5	50.00	107	80-128	
Surr: Dibromofluoromethane	1868-53-7	52.2	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	50.0	50.00	100	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-017A
Client Sample ID: French Drain South / 4920398
Collection Date: 4/10/2013 1200h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 349h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	**36.9**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**58.0**	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	**26.6**	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-017A
Client Sample ID: French Drain South / 4920398

Analyzed: 4/11/2013 349h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	**4.85**	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	**3.23**	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-017A
Client Sample ID: French Drain South / 4920398

Analyzed: 4/11/2013 349h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	**36.7**	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	**5.80**	
o-Xylene	95-47-6	2.00	**18.3**	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	**55.0**	

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Lab Sample ID: 1304328-017A
Client Sample ID: French Drain South / 4920398

Analyzed: 4/11/2013 349h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	54.5	50.00	109	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.0	50.00	99.9	80-128	
Surr: Dibromofluoromethane	1868-53-7	51.9	50.00	104	80-124	
Surr: Toluene-d8	2037-26-5	48.7	50.00	97.5	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-018A
Client Sample ID: French Drain North / 4920399
Collection Date: 4/10/2013 1210h
Received Date: 4/10/2013 1603h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 408h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	**63.2**	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**56.8**	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-018A
Client Sample ID: French Drain North / 4920399

Analyzed: 4/11/2013 408h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	**6.18**	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	**4.37**	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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QA Officer

Lab Sample ID: 1304328-018A
Client Sample ID: French Drain North / 4920399

Analyzed: 4/11/2013 408h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	**39.3**	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	**7.05**	
o-Xylene	95-47-6	2.00	**37.2**	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	**2.45**	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	**76.5**	

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Lab Sample ID: 1304328-018A
Client Sample ID: French Drain North / 4920399

Analyzed: 4/11/2013 408h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	52.8	50.00	106	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	49.7	50.00	99.5	80-128	
Surr: Dibromofluoromethane	1868-53-7	50.6	50.00	101	80-124	
Surr: Toluene-d8	2037-26-5	49.1	50.00	98.3	77-129	

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-019A
Client Sample ID: East of Boom #3 / 4920400
Collection Date: 4/10/2013 1220h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 427h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Jose Rocha
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Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	< 2.00	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-019A
Client Sample ID: East of Boom #3 / 4920400

Analyzed: 4/11/2013 427h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-019A
Client Sample ID: East of Boom #3 / 4920400

Analyzed: 4/11/2013 427h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1304328-019A
Client Sample ID: East of Boom #3 / 4920400

Analyzed: 4/11/2013 427h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	49.7	50.00	99.4	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	53.1	50.00	106	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.9	50.00	99.8	80-124	
Surr: Toluene-d8	2037-26-5	50.5	50.00	101	77-129	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

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ORGANIC ANALYTICAL REPORT

Client: Utah Division of Water Quality **Contact:** Chris Bittner
Project: MP 44.9
Lab Sample ID: 1304328-020A
Client Sample ID: Below Weirs AB Res
Collection Date: 4/10/2013 1125h
Received Date: 4/10/2013 1635h

Analytical Results VOAs Full List by GC/MS Method 8260C/5030C

Analyzed: 4/11/2013 446h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

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Jose Rocha
QA Officer

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1,1,2-Tetrachloroethane	630-20-6	2.00	< 2.00	
1,1,1-Trichloroethane	71-55-6	2.00	< 2.00	
1,1,2,2-Tetrachloroethane	79-34-5	2.00	< 2.00	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	2.00	< 2.00	
1,1,2-Trichloroethane	79-00-5	2.00	< 2.00	
1,1-Dichloropropene	563-58-6	2.00	< 2.00	
1,1-Dichloroethane	75-34-3	2.00	< 2.00	
1,1-Dichloroethene	75-35-4	2.00	< 2.00	
1,2,3-Trichlorobenzene	87-61-6	2.00	< 2.00	
1,2,3-Trichloropropane	96-18-4	2.00	< 2.00	
1,2,3-Trimethylbenzene	526-73-8	2.00	< 2.00	
1,2,4-Trichlorobenzene	120-82-1	2.00	< 2.00	
1,2,4-Trimethylbenzene	95-63-6	2.00	**2.16**	
1,2-Dibromo-3-chloropropane	96-12-8	5.00	< 5.00	
1,2-Dibromoethane	106-93-4	2.00	< 2.00	
1,2-Dichlorobenzene	95-50-1	2.00	< 2.00	
1,2-Dichloroethane	107-06-2	2.00	< 2.00	
1,2-Dichloropropane	78-87-5	2.00	< 2.00	
1,3,5-Trimethylbenzene	108-67-8	2.00	< 2.00	
1,3-Dichlorobenzene	541-73-1	2.00	< 2.00	
1,3-Dichloropropane	142-28-9	2.00	< 2.00	
1,4-Dichlorobenzene	106-46-7	2.00	< 2.00	
1,4-Dioxane	123-91-1	50.0	< 50.0	
2,2-Dichloropropane	594-20-7	2.00	< 2.00	
2-Butanone	78-93-3	10.0	< 10.0	
2-Chloroethyl vinyl ether	110-75-8	5.00	< 5.00	
2-Chlorotoluene	95-49-8	2.00	< 2.00	
2-Hexanone	591-78-6	5.00	< 5.00	
2-Nitropropane	79-46-9	5.00	< 5.00	
4-Chlorotoluene	106-43-4	2.00	< 2.00	

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

Lab Sample ID: 1304328-020A
Client Sample ID: Below Weirs AB Res

Analyzed: 4/11/2013 446h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
4-Isopropyltoluene	99-87-6	2.00	< 2.00	
4-Methyl-2-pentanone	108-10-1	5.00	< 5.00	
Acetone	67-64-1	10.0	< 10.0	
Acetonitrile	75-05-8	5.00	< 5.00	
Acrolein	107-02-8	5.00	< 5.00	
Acrylonitrile	107-13-1	10.0	< 10.0	
Allyl chloride	107-05-1	5.00	< 5.00	
Benzene	71-43-2	2.00	< 2.00	
Benzyl chloride	100-44-7	5.00	< 5.00	
Bis(2-chloroisopropyl) ether	108-60-1	5.00	< 5.00	
Bromobenzene	108-86-1	2.00	< 2.00	
Bromochloromethane	74-97-5	2.00	< 2.00	
Bromodichloromethane	75-27-4	2.00	< 2.00	
Bromoform	75-25-2	2.00	< 2.00	
Bromomethane	74-83-9	5.00	< 5.00	
Butyl acetate	123-86-4	10.0	< 10.0	
Carbon disulfide	75-15-0	2.00	< 2.00	
Carbon tetrachloride	56-23-5	2.00	< 2.00	
Chlorobenzene	108-90-7	2.00	< 2.00	
Chloroethane	75-00-3	2.00	< 2.00	
Chloroform	67-66-3	2.00	< 2.00	
Chloromethane	74-87-3	3.00	< 3.00	
Chloroprene	126-99-8	2.00	< 2.00	
cis-1,2-Dichloroethene	156-59-2	2.00	< 2.00	
cis-1,3-Dichloropropene	10061-01-5	2.00	< 2.00	
Cyclohexane	110-82-7	2.00	< 2.00	
Cyclohexanone	108-94-1	50.0	< 50.0	
Dibromochloromethane	124-48-1	2.00	< 2.00	
Dibromomethane	74-95-3	2.00	< 2.00	
Dichlorodifluoromethane	75-71-8	2.00	< 2.00	
Ethyl acetate	141-78-6	10.0	< 10.0	
Ethyl ether	60-29-7	10.0	< 10.0	
Ethyl methacrylate	97-63-2	2.00	< 2.00	
Ethylbenzene	100-41-4	2.00	< 2.00	
Hexachlorobutadiene	87-68-3	2.00	< 2.00	
Iodomethane	74-88-4	5.00	< 5.00	
Isobutyl alcohol	78-83-1	100	< 100	

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Client Sample ID: Below Weirs AB Res

Analyzed: 4/11/2013 446h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
Isopropyl acetate	108-21-4	10.0	< 10.0	
Isopropyl alcohol	67-63-0	40.0	< 40.0	
Isopropylbenzene	98-82-8	2.00	< 2.00	
m,p-Xylene	179601-23-1	2.00	< 2.00	
Methacrylonitrile	126-98-7	5.00	< 5.00	
Methyl Acetate	79-20-9	5.00	< 5.00	
Methyl methacrylate	80-62-6	5.00	< 5.00	
Methyl tert-butyl ether	1634-04-4	2.00	< 2.00	
Methylcyclohexane	108-87-2	2.00	< 2.00	
Methylene chloride	75-09-2	2.00	< 2.00	
n-Amyl acetate	628-63-7	10.0	< 10.0	
n-Butyl alcohol	71-36-3	100	< 100	
n-Butylbenzene	104-51-8	2.00	< 2.00	
n-Hexane	110-54-3	2.00	< 2.00	
n-Octane	111-65-9	2.00	< 2.00	
n-Propylbenzene	103-65-1	2.00	< 2.00	
Naphthalene	91-20-3	2.00	< 2.00	
o-Xylene	95-47-6	2.00	< 2.00	
Pentachloroethane	76-01-7	5.00	< 5.00	
Propionitrile	107-12-0	25.0	< 25.0	
Propyl acetate	109-60-4	10.0	< 10.0	
sec-Butylbenzene	135-98-8	2.00	< 2.00	
Styrene	100-42-5	2.00	< 2.00	
tert-Butyl alcohol	76-65-0	20.0	< 20.0	
tert-Butylbenzene	98-06-6	2.00	< 2.00	
Tetrachloroethene	127-18-4	2.00	< 2.00	
Tetrahydrofuran	109-99-9	2.00	< 2.00	
Toluene	108-88-3	2.00	< 2.00	
trans-1,2-Dichloroethene	156-60-5	2.00	< 2.00	
trans-1,3-Dichloropropene	10061-02-6	2.00	< 2.00	
trans-1,4-Dichloro-2-butene	110-57-6	2.00	< 2.00	
Trichloroethene	79-01-6	2.00	< 2.00	
Trichlorofluoromethane	75-69-4	2.00	< 2.00	
Vinyl acetate	108-05-4	10.0	< 10.0	
Vinyl chloride	75-01-4	1.00	< 1.00	
Xylenes, Total	1330-20-7	2.00	< 2.00	

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Lab Sample ID: 1304328-020A
Client Sample ID: Below Weirs AB Res

Analyzed: 4/11/2013 446h
Units: µg/L **Dilution Factor:** 1 **Method:** SW8260C

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr: 1,2-Dichloroethane-d4	17060-07-0	51.5	50.00	103	72-151	
Surr: 4-Bromofluorobenzene	460-00-4	50.8	50.00	102	80-128	
Surr: Dibromofluoromethane	1868-53-7	49.6	50.00	99.3	80-124	
Surr: Toluene-d8	2037-26-5	49.0	50.00	98.0	77-129	

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: WC
QC Type: DUP

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304328-020DDUP	Total Dissolved Solids	mg/L	SM2540C	324		348.0		-	7.14	5	@	4/10/2013 1720h
1304328-020DDUP	Total Suspended Solids	mg/L	SM2540D	43.6		42.00		-	3.74	5		4/10/2013 1515h

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: WC
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-24756	Biochemical Oxygen Demand	mg/L	SM5210B	202	198.0	0	102	85-115				4/15/2013 1400h
LCS1-R52786	Chemical Oxygen Demand	mg/L	HACH 8000	311	300.0	0	104	85-115				4/11/2013 1000h
LCS2-R52786	Chemical Oxygen Demand	mg/L	HACH 8000	96.0	100.0	0	96.0	85-115				4/11/2013 1000h
LCS3-R52786	Chemical Oxygen Demand	mg/L	HACH 8000	9.00	10.00	0	90.0	85-115				4/11/2013 1000h
LCS-R52786	Chemical Oxygen Demand	mg/L	HACH 8000	1,040	1,000	0	104	85-115				4/11/2013 1000h
LCS-24747	Phosphate, Total (as P)	mg/L	SM4500-P-F	0.968	1.000	0	96.8	90-110				4/11/2013 1212h
LCS-R52731	Total Dissolved Solids	mg/L	SM2540C	194	205.0	0	94.6	80-120				4/10/2013 1720h
LCS-24758	TKN (as N)	mg/L	E351.2	1.79	2.000	0	89.7	90-110			§	4/11/2013 1356h
LCS-R52728	Total Suspended Solids	mg/L	SM2540D	95.0	100.0	0	95.0	80-120				4/10/2013 1515h

§ - QC limits are set with an accuracy of two significant figures, therefore the recovery rounds to an acceptable value within the control limits.

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: WC
QC Type: LCSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCSD-24756	Biochemical Oxygen Demand	mg/L	SM5210B	179	198.0	0	90.4	85-115	12.1	20		4/15/2013 1400h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: WC
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24756	Biochemical Oxygen Demand	mg/L	SM5210B	< 5.00				-				4/15/2013 1400h
MB-R52786	Chemical Oxygen Demand	mg/L	HACH 8000	< 10.0				-				4/11/2013 1000h
MB-24747	Phosphate, Total (as P)	mg/L	SM4500-P-F	< 0.0500				-				4/11/2013 1201h
MB-R52731	Total Dissolved Solids	mg/L	SM2540C	< 10.0				-				4/10/2013 1720h
MB-24758	TKN (as N)	mg/L	E351.2	< 0.500				-				4/11/2013 1356h
MB-R52728	Total Suspended Solids	mg/L	SM2540D	< 3.00				-				4/10/2013 1515h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: WC
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304328-020DMS	Biochemical Oxygen Demand	mg/L	SM5210B	27.0	27.00	0	100	85-115				4/15/2013 1400h
1304328-020EMS	Chemical Oxygen Demand	mg/L	HACH 8000	57.0	50.00	0	114	85-115				4/11/2013 1000h
1304328-020FMS	Phosphate, Total (as P)	mg/L	SM4500-P-F	0.955	1.000	0	95.5	90-110				4/11/2013 1213h
1304328-020FMS	TKN (as N)	mg/L	E351.2	9.77	10.00	0	97.7	90-110				4/11/2013 1358h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: WC
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304328-020DMSD	Biochemical Oxygen Demand	mg/L	SM5210B	31.0	27.00	0	115	85-115	13.8	20		4/15/2013 1400h
1304328-020EMSD	Chemical Oxygen Demand	mg/L	HACH 8000	54.0	50.00	0	108	85-115	5.41	10		4/11/2013 1000h
1304328-020FMSD	Phosphate, Total (as P)	mg/L	SM4500-P-F	1.02	1.000	0	102	90-110	6.81	10		4/11/2013 1213h
1304328-020FMSD	TKN (as N)	mg/L	E351.2	9.41	10.00	0	94.1	90-110	3.81	20		4/11/2013 1359h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: GC
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-24778	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.52	2.000	0	75.9	48-118				4/12/2013 1645h
LCS-24778	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.216	0.4000		53.9	18-95				4/12/2013 1645h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: GC
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24778	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	< 0.500				-				4/12/2013 1625h
MB-24778	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.177	0.4000		44.2	18-95				4/12/2013 1625h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: GC
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304328-002CMS	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.38	2.000	0	68.9	60-161				4/12/2013 1744h
1304328-002CMS	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.181	0.4000		45.3	10-190				4/12/2013 1744h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: GC
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304328-002CMSD	Diesel Range Organics (DRO) (C10-C28)	mg/L	SW8015D	1.64	2.000	0	81.9	60-161	17.2	25		4/12/2013 1803h
1304328-002CMSD	Surr: 4-Bromofluorobenzene	%REC	SW8015D	0.212	0.4000		52.9	10-190				4/12/2013 1803h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-24748	1,2,4-Trichlorobenzene	µg/L	SW8270D	39.1	80.00	0	48.8	10-104				4/12/2013 202h
LCS-24748	1,4-Dichlorobenzene	µg/L	SW8270D	24.1	80.00	0	30.1	10-118				4/12/2013 202h
LCS-24748	2,4,6-Trichlorophenol	µg/L	SW8270D	78.9	80.00	0	98.6	17-119				4/12/2013 202h
LCS-24748	2,4-Dimethylphenol	µg/L	SW8270D	66.9	80.00	0	83.6	10-131				4/12/2013 202h
LCS-24748	2,4-Dinitrotoluene	µg/L	SW8270D	73.4	80.00	0	91.7	42-219				4/12/2013 202h
LCS-24748	2-Chloronaphthalene	µg/L	SW8270D	53.1	80.00	0	66.4	23-126				4/12/2013 202h
LCS-24748	2-Chlorophenol	µg/L	SW8270D	49.4	80.00	0	61.7	15-128				4/12/2013 202h
LCS-24748	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	86.2	80.00	0	108	30-198				4/12/2013 202h
LCS-24748	4-Chloro-3-methylphenol	µg/L	SW8270D	72.6	80.00	0	90.7	29-148				4/12/2013 202h
LCS-24748	4-Nitrophenol	µg/L	SW8270D	30.0	80.00	0	37.5	10-157				4/12/2013 202h
LCS-24748	Acenaphthene	µg/L	SW8270D	60.2	80.00	0	75.2	20-116				4/12/2013 202h
LCS-24748	Benzo(a)pyrene	µg/L	SW8270D	79.7	80.00	0	99.6	10-221				4/12/2013 202h
LCS-24748	N-Nitrosodi-n-propylamine	µg/L	SW8270D	45.0	80.00	0	56.2	20-148				4/12/2013 202h
LCS-24748	Pentachlorophenol	µg/L	SW8270D	95.4	80.00	0	119	21-153				4/12/2013 202h
LCS-24748	Phenol	µg/L	SW8270D	20.4	80.00	0	25.5	10-131				4/12/2013 202h
LCS-24748	Pyrene	µg/L	SW8270D	76.6	80.00	0	95.7	37-150				4/12/2013 202h
LCS-24748	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	102	80.00		128	10-165				4/12/2013 202h
LCS-24748	Surr: 2-Fluorobiphenyl	%REC	SW8270D	27.8	40.00		69.5	10-118				4/12/2013 202h
LCS-24748	Surr: 2-Fluorophenol	%REC	SW8270D	31.4	80.00		39.2	10-121				4/12/2013 202h
LCS-24748	Surr: Nitrobenzene-d5	%REC	SW8270D	22.7	40.00		56.8	10-127				4/12/2013 202h
LCS-24748	Surr: Phenol-d6	%REC	SW8270D	24.2	80.00		30.2	10-124				4/12/2013 202h
LCS-24748	Surr: Terphenyl-d14	%REC	SW8270D	42.5	40.00		106	51-221				4/12/2013 202h
LCS-24748	Acenaphthene	µg/L	SW8270D	65.4	80.00	0	81.8	23-159				4/12/2013 1222h
LCS-24748	Benzo(a)pyrene	µg/L	SW8270D	95.8	80.00	0	120	26-223				4/12/2013 1222h
LCS-24748	Pentachlorophenol	µg/L	SW8270D	136	80.00	0	170	10-249				4/12/2013 1222h
LCS-24748	Pyrene	µg/L	SW8270D	81.8	80.00	0	102	28-204				4/12/2013 1222h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24748	1,1´-Biphenyl	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1,2,4,5-Tetrachlorobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1,2,4-Trichlorobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1,2-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1,3,5-Trinitrobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1,3-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1,3-Dinitrobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1,4-Dichlorobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1,4-Dinitrobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1,4-Naphthoquinone	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1,4-Phenylenediamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1-Chloronaphthalene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1-Methylnaphthalene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	1-Naphthylamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2,3,4,6-Tetrachlorophenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2,4,5-Trichlorophenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2,4,6-Trichlorophenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2,4-Dichlorophenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2,4-Dimethylphenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2,4-Dinitrophenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2,4-Dinitrotoluene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2,6-Dichlorophenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2,6-Dinitrotoluene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2-Acetylaminofluorene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2-Chloronaphthalene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2-Chlorophenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2-Methylnaphthalene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24748	2-Methylphenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2-Naphthylamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2-Nitroaniline	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2-Nitrophenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	2-Picoline	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	3&4-Methylphenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	3,3´-Dichlorobenzidine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	3,3´-Dimethylbenzidine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	3-Methylcholanthrene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	3-Nitroaniline	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	4-Aminobiphenyl	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	4-Bromophenyl phenyl ether	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	4-Chloro-3-methylphenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	4-Chloroaniline	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	4-Chlorophenyl phenyl ether	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	4-Nitroaniline	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	4-Nitrophenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	5-Nitro-o-toluidine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	7,12-Dimethylbenz(a)anthracene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	a,a-Dimethylphenethylamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Acenaphthene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Acenaphthylene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Acetophenone	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	alpha-Terpineol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Aniline	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Anthracene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24748	Aramite	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Atrazine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Azobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Benz(a)anthracene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Benzaldehyde	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Benzidine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Benzo(a)pyrene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Benzo(b)fluoranthene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Benzo(g,h,i)perylene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Benzo(k)fluoranthene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Benzoic acid	µg/L	SW8270D	< 20.0				-				4/12/2013 1320h
MB-24748	Benzyl alcohol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Bis(2-chloroethoxy)methane	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Bis(2-chloroethyl) ether	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Bis(2-chloroisopropyl) ether	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Bis(2-ethylhexyl) phthalate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	bis(2-ethylhexyl)adipate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Butyl benzyl phthalate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Caprolactam	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Carbazole	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Chlorobenzilate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Chrysene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Diallate (cis or trans)	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Dibenz(a,h)anthracene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Dibenzofuran	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Diethyl phthalate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Dimethoate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24748	Dimethyl phthalate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Dimethylaminoazobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Di-n-butyl phthalate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Di-n-octyl phthalate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Dinoseb	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Diphenylamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Disulfoton	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Ethyl methanesulfonate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Famphur	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Fluoranthene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Fluorene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Hexachlorobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Hexachlorobutadiene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Hexachlorocyclopentadiene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Hexachloroethane	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Hexachlorophene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Hexachloropropene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Indene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Isodrin	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Isophorone	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Isosafrole	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Kepone	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Methapyrilene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Methyl methanesulfonate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Naphthalene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	n-Decane	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24748	Nitrobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Nitroquinoline-1-oxide	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	N-Nitrosodiethylamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	N-Nitrosodimethylamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	N-Nitrosodi-n-butylamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	N-Nitrosodiphenylamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	N-Nitrosodi-n-propylamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	N-Nitrosomethylethylamine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	N-Nitrosomorpholine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	N-Nitrosopiperidine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	N-Nitrosopyrrolidine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	n-Octadecane	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	O,O,O-Triethyl phosphorothioate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	o-Toluidine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Parathion	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Methyl parathion	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Pentachlorobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Pentachloronitrobenzene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Pentachlorophenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Phenacetin	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Phenanthrene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Phenol	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Phorate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Pronamide	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Pyrene	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Pyridine	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Quinoline	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24748	Safrole	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Tetraethyl dithiopyrophosphate	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Thionazin	µg/L	SW8270D	< 10.0				-				4/12/2013 1320h
MB-24748	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	80.4	80.00		101	10-165				4/12/2013 1320h
MB-24748	Surr: 2-Fluorobiphenyl	%REC	SW8270D	20.4	40.00		50.9	10-118				4/12/2013 1320h
MB-24748	Surr: 2-Fluorophenol	%REC	SW8270D	27.9	80.00		34.9	10-121				4/12/2013 1320h
MB-24748	Surr: Nitrobenzene-d5	%REC	SW8270D	18.2	40.00		45.6	10-127				4/12/2013 1320h
MB-24748	Surr: Phenol-d6	%REC	SW8270D	19.7	80.00		24.6	10-124				4/12/2013 1320h
MB-24748	Surr: Terphenyl-d14	%REC	SW8270D	49.8	40.00		124	51-221				4/12/2013 1320h
MB-24748	1-Methylnaphthalene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	2-Methylnaphthalene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Acenaphthene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Acenaphthylene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Anthracene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Benz(a)anthracene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Benzo(a)pyrene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Benzo(b)fluoranthene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Benzo(g,h,i)perylene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Benzo(k)fluoranthene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Chrysene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Dibenz(a,h)anthracene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Fluoranthene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Fluorene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Hexachlorobenzene	µg/L	SW8270D	< 1.00				-				4/12/2013 1155h
MB-24748	Indene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Indeno(1,2,3-cd)pyrene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Naphthalene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-24748	Pentachlorophenol	µg/L	SW8270D	< 1.00				-				4/12/2013 1155h
MB-24748	Phenanthrene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h
MB-24748	Pyrene	µg/L	SW8270D	< 0.100				-				4/12/2013 1155h

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304328-001BMS	1,2,4-Trichlorobenzene	µg/L	SW8270D	48.1	80.00	0	60.1	20-107				4/12/2013 251h
1304328-001BMS	1,4-Dichlorobenzene	µg/L	SW8270D	29.6	80.00	0	37.0	11-90				4/12/2013 251h
1304328-001BMS	2,4,6-Trichlorophenol	µg/L	SW8270D	75.5	80.00	0	94.4	10-223				4/12/2013 251h
1304328-001BMS	2,4-Dimethylphenol	µg/L	SW8270D	40.4	80.00	0	50.4	10-176				4/12/2013 251h
1304328-001BMS	2,4-Dinitrotoluene	µg/L	SW8270D	70.3	80.00	0	87.8	21-191				4/12/2013 251h
1304328-001BMS	2-Chloronaphthalene	µg/L	SW8270D	53.0	80.00	0	66.2	12-132				4/12/2013 251h
1304328-001BMS	2-Chlorophenol	µg/L	SW8270D	45.1	80.00	0	56.4	20-107				4/12/2013 251h
1304328-001BMS	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	86.1	80.00	0	108	20-250				4/12/2013 251h
1304328-001BMS	4-Chloro-3-methylphenol	µg/L	SW8270D	69.0	80.00	0	86.3	10-136				4/12/2013 251h
1304328-001BMS	4-Nitrophenol	µg/L	SW8270D	30.6	80.00	0	38.3	10-135				4/12/2013 251h
1304328-001BMS	Acenaphthene	µg/L	SW8270D	59.9	80.00	0	74.9	21-113				4/12/2013 251h
1304328-001BMS	Benzo(a)pyrene	µg/L	SW8270D	71.5	80.00	0	89.4	15-169				4/12/2013 251h
1304328-001BMS	N-Nitrosodi-n-propylamine	µg/L	SW8270D	47.5	80.00	0	59.4	10-133				4/12/2013 251h
1304328-001BMS	Pentachlorophenol	µg/L	SW8270D	57.0	80.00	0	71.2	10-131				4/12/2013 251h
1304328-001BMS	Phenol	µg/L	SW8270D	18.2	80.00	0	22.8	10-71				4/12/2013 251h
1304328-001BMS	Pyrene	µg/L	SW8270D	70.0	80.00	0	87.6	23-150				4/12/2013 251h
1304328-001BMS	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	92.5	80.00		116	14-159				4/12/2013 251h
1304328-001BMS	Surr: 2-Fluorobiphenyl	%REC	SW8270D	28.2	40.00		70.4	10-124				4/12/2013 251h
1304328-001BMS	Surr: 2-Fluorophenol	%REC	SW8270D	25.2	80.00		31.5	10-106				4/12/2013 251h
1304328-001BMS	Surr: Nitrobenzene-d5	%REC	SW8270D	22.2	40.00		55.6	10-180				4/12/2013 251h
1304328-001BMS	Surr: Phenol-d6	%REC	SW8270D	21.8	80.00		27.3	10-122				4/12/2013 251h
1304328-001BMS	Surr: Terphenyl-d14	%REC	SW8270D	38.2	40.00		95.6	10-221				4/12/2013 251h
1304328-001BMS	Acenaphthene	µg/L	SW8270D	68.2	80.00	0	85.3	21-113				4/12/2013 1315h
1304328-001BMS	Benzo(a)pyrene	µg/L	SW8270D	87.4	80.00	0.2100	109	15-169				4/12/2013 1315h
1304328-001BMS	Pentachlorophenol	µg/L	SW8270D	102	80.00	0	127	10-249				4/12/2013 1315h
1304328-001BMS	Pyrene	µg/L	SW8270D	75.8	80.00	0	94.8	23-150				4/12/2013 1315h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSSV
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304328-001BMSD	1,2,4-Trichlorobenzene	µg/L	SW8270D	36.5	80.00	0	45.6	20-107	27.5	25	@	4/12/2013 315h
1304328-001BMSD	1,4-Dichlorobenzene	µg/L	SW8270D	19.4	80.00	0	24.3	11-90	41.6	25	@	4/12/2013 315h
1304328-001BMSD	2,4,6-Trichlorophenol	µg/L	SW8270D	71.1	80.00	0	88.9	10-223	5.96	25		4/12/2013 315h
1304328-001BMSD	2,4-Dimethylphenol	µg/L	SW8270D	29.8	80.00	0	37.2	10-176	30.1	25	@	4/12/2013 315h
1304328-001BMSD	2,4-Dinitrotoluene	µg/L	SW8270D	68.5	80.00	0	85.7	21-191	2.49	25		4/12/2013 315h
1304328-001BMSD	2-Chloronaphthalene	µg/L	SW8270D	46.2	80.00	0	57.8	12-132	13.6	25		4/12/2013 315h
1304328-001BMSD	2-Chlorophenol	µg/L	SW8270D	38.9	80.00	0	48.6	20-107	14.8	25		4/12/2013 315h
1304328-001BMSD	4,6-Dinitro-2-methylphenol	µg/L	SW8270D	87.9	80.00	0	110	20-250	2.06	25		4/12/2013 315h
1304328-001BMSD	4-Chloro-3-methylphenol	µg/L	SW8270D	65.8	80.00	0	82.2	10-136	4.79	25		4/12/2013 315h
1304328-001BMSD	4-Nitrophenol	µg/L	SW8270D	29.8	80.00	0	37.3	10-135	2.71	25		4/12/2013 315h
1304328-001BMSD	Acenaphthene	µg/L	SW8270D	54.1	80.00	0	67.6	21-113	10.2	25		4/12/2013 315h
1304328-001BMSD	Benzo(a)pyrene	µg/L	SW8270D	69.7	80.00	0	87.1	15-169	2.56	25		4/12/2013 315h
1304328-001BMSD	N-Nitrosodi-n-propylamine	µg/L	SW8270D	35.1	80.00	0	43.8	10-133	30.2	25	@	4/12/2013 315h
1304328-001BMSD	Pentachlorophenol	µg/L	SW8270D	61.8	80.00	0	77.2	10-131	8.03	25		4/12/2013 315h
1304328-001BMSD	Phenol	µg/L	SW8270D	15.4	80.00	0	19.3	10-71	16.6	25		4/12/2013 315h
1304328-001BMSD	Pyrene	µg/L	SW8270D	65.5	80.00	0	81.9	23-150	6.68	25		4/12/2013 315h
1304328-001BMSD	Surr: 2,4,6-Tribromophenol	%REC	SW8270D	91.7	80.00		115	14-159				4/12/2013 315h
1304328-001BMSD	Surr: 2-Fluorobiphenyl	%REC	SW8270D	23.9	40.00		59.8	10-124				4/12/2013 315h
1304328-001BMSD	Surr: 2-Fluorophenol	%REC	SW8270D	21.1	80.00		26.3	10-106				4/12/2013 315h
1304328-001BMSD	Surr: Nitrobenzene-d5	%REC	SW8270D	17.6	40.00		43.9	10-180				4/12/2013 315h
1304328-001BMSD	Surr: Phenol-d6	%REC	SW8270D	18.6	80.00		23.2	10-122				4/12/2013 315h
1304328-001BMSD	Surr: Terphenyl-d14	%REC	SW8270D	36.5	40.00		91.4	10-221				4/12/2013 315h
1304328-001BMSD	Acenaphthene	µg/L	SW8270D	56.8	80.00	0	71.0	21-113	18.2	25		4/12/2013 1341h
1304328-001BMSD	Benzo(a)pyrene	µg/L	SW8270D	80.0	80.00	0.2100	99.7	15-169	8.84	25		4/12/2013 1341h
1304328-001BMSD	Pentachlorophenol	µg/L	SW8270D	94.4	80.00	0	118	10-249	7.35	25		4/12/2013 1341h
1304328-001BMSD	Pyrene	µg/L	SW8270D	68.4	80.00	0	85.5	23-150	10.3	25		4/12/2013 1341h

@ - High RPD due to suspected sample non-homogeneity or matrix interference.

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS VOC 041013A	1,1,1-Trichloroethane	µg/L	SW8260C	23.8	20.00	0	119	59-156				4/10/2013 1207h
LCS VOC 041013A	1,1-Dichloroethene	µg/L	SW8260C	24.6	20.00	0	123	46-171				4/10/2013 1207h
LCS VOC 041013A	1,2-Dichlorobenzene	µg/L	SW8260C	21.8	20.00	0	109	67-135				4/10/2013 1207h
LCS VOC 041013A	1,2-Dichloroethane	µg/L	SW8260C	22.7	20.00	0	114	60-137				4/10/2013 1207h
LCS VOC 041013A	1,2-Dichloropropane	µg/L	SW8260C	21.4	20.00	0	107	59-135				4/10/2013 1207h
LCS VOC 041013A	Benzene	µg/L	SW8260C	22.0	20.00	0	110	62-127				4/10/2013 1207h
LCS VOC 041013A	Chlorobenzene	µg/L	SW8260C	21.6	20.00	0	108	63-140				4/10/2013 1207h
LCS VOC 041013A	Chloroform	µg/L	SW8260C	22.9	20.00	0	115	67-132				4/10/2013 1207h
LCS VOC 041013A	Ethylbenzene	µg/L	SW8260C	21.8	20.00	0	109	55-133				4/10/2013 1207h
LCS VOC 041013A	Isopropylbenzene	µg/L	SW8260C	22.7	20.00	0	114	60-147				4/10/2013 1207h
LCS VOC 041013A	Methyl tert-butyl ether	µg/L	SW8260C	18.6	20.00	0	93.0	37-189				4/10/2013 1207h
LCS VOC 041013A	Methylene chloride	µg/L	SW8260C	23.0	20.00	0	115	32-185				4/10/2013 1207h
LCS VOC 041013A	Naphthalene	µg/L	SW8260C	17.9	20.00	0	89.5	28-136				4/10/2013 1207h
LCS VOC 041013A	Tetrahydrofuran	µg/L	SW8260C	16.2	20.00	0	81.2	43-146				4/10/2013 1207h
LCS VOC 041013A	Toluene	µg/L	SW8260C	21.7	20.00	0	108	64-129				4/10/2013 1207h
LCS VOC 041013A	Trichloroethene	µg/L	SW8260C	22.6	20.00	0	113	54-152				4/10/2013 1207h
LCS VOC 041013A	Xylenes, Total	µg/L	SW8260C	66.8	60.00	0	111	52-134				4/10/2013 1207h
LCS VOC 041013A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	53.7	50.00		107	76-138				4/10/2013 1207h
LCS VOC 041013A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	50.2	50.00		100	77-121				4/10/2013 1207h
LCS VOC 041013A	Surr: Dibromofluoromethane	%REC	SW8260C	52.8	50.00		106	67-128				4/10/2013 1207h
LCS VOC 041013A	Surr: Toluene-d8	%REC	SW8260C	48.3	50.00		96.7	81-135				4/10/2013 1207h
LCS VOC 041013B	1,1,1-Trichloroethane	µg/L	SW8260C	23.2	20.00	0	116	59-156				4/10/2013 2207h
LCS VOC 041013B	1,1-Dichloroethene	µg/L	SW8260C	23.4	20.00	0	117	46-171				4/10/2013 2207h
LCS VOC 041013B	1,2-Dichlorobenzene	µg/L	SW8260C	21.0	20.00	0	105	67-135				4/10/2013 2207h
LCS VOC 041013B	1,2-Dichloroethane	µg/L	SW8260C	22.3	20.00	0	111	60-137				4/10/2013 2207h
LCS VOC 041013B	1,2-Dichloropropane	µg/L	SW8260C	19.8	20.00	0	99.0	59-135				4/10/2013 2207h
LCS VOC 041013B	Benzene	µg/L	SW8260C	20.3	20.00	0	102	62-127				4/10/2013 2207h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS VOC 041013B	Chlorobenzene	µg/L	SW8260C	20.4	20.00	0	102	63-140				4/10/2013 2207h
LCS VOC 041013B	Chloroform	µg/L	SW8260C	20.9	20.00	0	104	67-132				4/10/2013 2207h
LCS VOC 041013B	Ethylbenzene	µg/L	SW8260C	20.2	20.00	0	101	55-133				4/10/2013 2207h
LCS VOC 041013B	Isopropylbenzene	µg/L	SW8260C	21.6	20.00	0	108	60-147				4/10/2013 2207h
LCS VOC 041013B	Methyl tert-butyl ether	µg/L	SW8260C	17.4	20.00	0	87.2	37-189				4/10/2013 2207h
LCS VOC 041013B	Methylene chloride	µg/L	SW8260C	21.9	20.00	0	109	32-185				4/10/2013 2207h
LCS VOC 041013B	Naphthalene	µg/L	SW8260C	17.3	20.00	0	86.7	28-136				4/10/2013 2207h
LCS VOC 041013B	Tetrahydrofuran	µg/L	SW8260C	15.2	20.00	0	76.1	43-146				4/10/2013 2207h
LCS VOC 041013B	Toluene	µg/L	SW8260C	20.2	20.00	0	101	64-129				4/10/2013 2207h
LCS VOC 041013B	Trichloroethene	µg/L	SW8260C	21.6	20.00	0	108	54-152				4/10/2013 2207h
LCS VOC 041013B	Xylenes, Total	µg/L	SW8260C	62.6	60.00	0	104	52-134				4/10/2013 2207h
LCS VOC 041013B	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	56.2	50.00		112	76-138				4/10/2013 2207h
LCS VOC 041013B	Surr: 4-Bromofluorobenzene	%REC	SW8260C	51.0	50.00		102	77-121				4/10/2013 2207h
LCS VOC 041013B	Surr: Dibromofluoromethane	%REC	SW8260C	54.0	50.00		108	67-128				4/10/2013 2207h
LCS VOC 041013B	Surr: Toluene-d8	%REC	SW8260C	48.1	50.00		96.3	81-135				4/10/2013 2207h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 041013A	1,1,1,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,1,1-Trichloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,1,2,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,1,2-Trichloro-1,2,2-trifluoroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,1,2-Trichloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,1-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,1-Dichloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,1-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,2,3-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,2,3-Trichloropropane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,2,3-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,2,4-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,2,4-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,2-Dibromo-3-chloropropane	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	1,2-Dibromoethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,2-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,2-Dichloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,3,5-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,3-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,3-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,4-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	1,4-Dioxane	µg/L	SW8260C	< 50.0				-				4/10/2013 1245h
MB VOC 041013A	2,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	2-Butanone	µg/L	SW8260C	< 10.0				-				4/10/2013 1245h
MB VOC 041013A	2-Chloroethyl vinyl ether	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 041013A	2-Chlorotoluene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	2-Hexanone	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	2-Nitropropane	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	4-Chlorotoluene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	4-Isopropyltoluene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	4-Methyl-2-pentanone	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Acetone	µg/L	SW8260C	< 10.0				-				4/10/2013 1245h
MB VOC 041013A	Acetonitrile	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Acrolein	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Acrylonitrile	µg/L	SW8260C	< 10.0				-				4/10/2013 1245h
MB VOC 041013A	Allyl chloride	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Benzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Benzyl chloride	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Bis(2-chloroisopropyl) ether	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Bromobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Bromochloromethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Bromodichloromethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Bromoform	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Bromomethane	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Butyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 1245h
MB VOC 041013A	Carbon disulfide	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Carbon tetrachloride	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Chlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Chloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Chloroform	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Chloromethane	µg/L	SW8260C	< 3.00				-				4/10/2013 1245h
MB VOC 041013A	Chloroprene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 041013A	cis-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	cis-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Cyclohexane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Cyclohexanone	µg/L	SW8260C	< 50.0				-				4/10/2013 1245h
MB VOC 041013A	Dibromochloromethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Dibromomethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Dichlorodifluoromethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Ethyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 1245h
MB VOC 041013A	Ethyl ether	µg/L	SW8260C	< 10.0				-				4/10/2013 1245h
MB VOC 041013A	Ethyl methacrylate	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Ethylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Hexachlorobutadiene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Iodomethane	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Isobutyl alcohol	µg/L	SW8260C	< 100				-				4/10/2013 1245h
MB VOC 041013A	Isopropyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 1245h
MB VOC 041013A	Isopropyl alcohol	µg/L	SW8260C	< 40.0				-				4/10/2013 1245h
MB VOC 041013A	Isopropylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	m,p-Xylene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Methacrylonitrile	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Methyl Acetate	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Methyl methacrylate	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Methyl tert-butyl ether	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Methylcyclohexane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Methylene chloride	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	n-Amyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 1245h
MB VOC 041013A	Naphthalene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	n-Butyl alcohol	µg/L	SW8260C	< 100				-				4/10/2013 1245h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 041013A	n-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	n-Hexane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	n-Octane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	n-Propylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	o-Xylene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Pentachloroethane	µg/L	SW8260C	< 5.00				-				4/10/2013 1245h
MB VOC 041013A	Propionitrile	µg/L	SW8260C	< 25.0				-				4/10/2013 1245h
MB VOC 041013A	Propyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 1245h
MB VOC 041013A	sec-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Styrene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	tert-Butyl alcohol	µg/L	SW8260C	< 20.0				-				4/10/2013 1245h
MB VOC 041013A	tert-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Tetrachloroethene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Tetrahydrofuran	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Toluene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	trans-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	trans-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	trans-1,4-Dichloro-2-butene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Trichloroethene	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Trichlorofluoromethane	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Vinyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 1245h
MB VOC 041013A	Vinyl chloride	µg/L	SW8260C	< 1.00				-				4/10/2013 1245h
MB VOC 041013A	Xylenes, Total	µg/L	SW8260C	< 2.00				-				4/10/2013 1245h
MB VOC 041013A	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	53.1	50.00		106	76-138				4/10/2013 1245h
MB VOC 041013A	Surr: 4-Bromofluorobenzene	%REC	SW8260C	52.8	50.00		106	77-121				4/10/2013 1245h
MB VOC 041013A	Surr: Dibromofluoromethane	%REC	SW8260C	51.0	50.00		102	67-128				4/10/2013 1245h
MB VOC 041013A	Surr: Toluene-d8	%REC	SW8260C	49.0	50.00		97.9	81-135				4/10/2013 1245h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 041013B	1,1,1,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,1,1-Trichloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,1,2,2-Tetrachloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,1,2-Trichloro-1,2,2-trifluoroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,1,2-Trichloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,1-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,1-Dichloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,1-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,2,3-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,2,3-Trichloropropane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,2,3-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,2,4-Trichlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,2,4-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,2-Dibromo-3-chloropropane	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	1,2-Dibromoethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,2-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,2-Dichloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,3,5-Trimethylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,3-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,3-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,4-Dichlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	1,4-Dioxane	µg/L	SW8260C	< 50.0				-				4/10/2013 2245h
MB VOC 041013B	2,2-Dichloropropane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	2-Butanone	µg/L	SW8260C	< 10.0				-				4/10/2013 2245h
MB VOC 041013B	2-Chloroethyl vinyl ether	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 041013B	2-Chlorotoluene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	2-Hexanone	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	2-Nitropropane	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	4-Chlorotoluene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	4-Isopropyltoluene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	4-Methyl-2-pentanone	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Acetone	µg/L	SW8260C	< 10.0				-				4/10/2013 2245h
MB VOC 041013B	Acetonitrile	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Acrolein	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Acrylonitrile	µg/L	SW8260C	< 10.0				-				4/10/2013 2245h
MB VOC 041013B	Allyl chloride	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Benzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Benzyl chloride	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Bis(2-chloroisopropyl) ether	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Bromobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Bromochloromethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Bromodichloromethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Bromoform	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Bromomethane	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Butyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 2245h
MB VOC 041013B	Carbon disulfide	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Carbon tetrachloride	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Chlorobenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Chloroethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Chloroform	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Chloromethane	µg/L	SW8260C	< 3.00				-				4/10/2013 2245h
MB VOC 041013B	Chloroprene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h

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QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 041013B	cis-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	cis-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Cyclohexane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Cyclohexanone	µg/L	SW8260C	< 50.0				-				4/10/2013 2245h
MB VOC 041013B	Dibromochloromethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Dibromomethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Dichlorodifluoromethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Ethyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 2245h
MB VOC 041013B	Ethyl ether	µg/L	SW8260C	< 10.0				-				4/10/2013 2245h
MB VOC 041013B	Ethyl methacrylate	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Ethylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Hexachlorobutadiene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Iodomethane	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Isobutyl alcohol	µg/L	SW8260C	< 100				-				4/10/2013 2245h
MB VOC 041013B	Isopropyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 2245h
MB VOC 041013B	Isopropyl alcohol	µg/L	SW8260C	< 40.0				-				4/10/2013 2245h
MB VOC 041013B	Isopropylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	m,p-Xylene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Methacrylonitrile	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Methyl Acetate	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Methyl methacrylate	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Methyl tert-butyl ether	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Methylcyclohexane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Methylene chloride	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	n-Amyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 2245h
MB VOC 041013B	Naphthalene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	n-Butyl alcohol	µg/L	SW8260C	< 100				-				4/10/2013 2245h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 041013B	n-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	n-Hexane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	n-Octane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	n-Propylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	o-Xylene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Pentachloroethane	µg/L	SW8260C	< 5.00				-				4/10/2013 2245h
MB VOC 041013B	Propionitrile	µg/L	SW8260C	< 25.0				-				4/10/2013 2245h
MB VOC 041013B	Propyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 2245h
MB VOC 041013B	sec-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Styrene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	tert-Butyl alcohol	µg/L	SW8260C	< 20.0				-				4/10/2013 2245h
MB VOC 041013B	tert-Butylbenzene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Tetrachloroethene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Tetrahydrofuran	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Toluene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	trans-1,2-Dichloroethene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	trans-1,3-Dichloropropene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	trans-1,4-Dichloro-2-butene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Trichloroethene	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Trichlorofluoromethane	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Vinyl acetate	µg/L	SW8260C	< 10.0				-				4/10/2013 2245h
MB VOC 041013B	Vinyl chloride	µg/L	SW8260C	< 1.00				-				4/10/2013 2245h
MB VOC 041013B	Xylenes, Total	µg/L	SW8260C	< 2.00				-				4/10/2013 2245h
MB VOC 041013B	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	56.2	50.00		112	76-138				4/10/2013 2245h
MB VOC 041013B	Surr: 4-Bromofluorobenzene	%REC	SW8260C	51.1	50.00		102	77-121				4/10/2013 2245h
MB VOC 041013B	Surr: Dibromofluoromethane	%REC	SW8260C	52.4	50.00		105	67-128				4/10/2013 2245h
MB VOC 041013B	Surr: Toluene-d8	%REC	SW8260C	49.0	50.00		98.1	81-135				4/10/2013 2245h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304278-001AMS	1,1,1-Trichloroethane	µg/L	SW8260C	22.1	20.00	0	110	67-147				4/10/2013 1458h
1304278-001AMS	1,1-Dichloroethene	µg/L	SW8260C	21.6	20.00	0	108	51-152				4/10/2013 1458h
1304278-001AMS	1,2-Dichlorobenzene	µg/L	SW8260C	20.1	20.00	0	101	70-130				4/10/2013 1458h
1304278-001AMS	1,2-Dichloroethane	µg/L	SW8260C	20.4	20.00	0	102	39-162				4/10/2013 1458h
1304278-001AMS	1,2-Dichloropropane	µg/L	SW8260C	18.9	20.00	0	94.6	59-135				4/10/2013 1458h
1304278-001AMS	Benzene	µg/L	SW8260C	20.5	20.00	0	103	66-145				4/10/2013 1458h
1304278-001AMS	Chlorobenzene	µg/L	SW8260C	19.8	20.00	0	99.2	63-140				4/10/2013 1458h
1304278-001AMS	Chloroform	µg/L	SW8260C	20.2	20.00	0	101	50-146				4/10/2013 1458h
1304278-001AMS	Ethylbenzene	µg/L	SW8260C	20.4	20.00	0	102	69-133				4/10/2013 1458h
1304278-001AMS	Isopropylbenzene	µg/L	SW8260C	21.4	20.00	0	107	60-147				4/10/2013 1458h
1304278-001AMS	Methyl tert-butyl ether	µg/L	SW8260C	20.2	20.00	0	101	37-189				4/10/2013 1458h
1304278-001AMS	Methylene chloride	µg/L	SW8260C	23.2	20.00	0	116	30-192				4/10/2013 1458h
1304278-001AMS	Naphthalene	µg/L	SW8260C	15.6	20.00	0	77.8	41-131				4/10/2013 1458h
1304278-001AMS	Tetrahydrofuran	µg/L	SW8260C	16.4	20.00	0	82.0	43-146				4/10/2013 1458h
1304278-001AMS	Toluene	µg/L	SW8260C	20.2	20.00	0	101	18-192				4/10/2013 1458h
1304278-001AMS	Trichloroethene	µg/L	SW8260C	20.8	20.00	0	104	61-153				4/10/2013 1458h
1304278-001AMS	Xylenes, Total	µg/L	SW8260C	61.7	60.00	0	103	42-167				4/10/2013 1458h
1304278-001AMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	53.1	50.00		106	72-151				4/10/2013 1458h
1304278-001AMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	49.9	50.00		99.8	80-128				4/10/2013 1458h
1304278-001AMS	Surr: Dibromofluoromethane	%REC	SW8260C	52.0	50.00		104	80-124				4/10/2013 1458h
1304278-001AMS	Surr: Toluene-d8	%REC	SW8260C	47.7	50.00		95.4	77-129				4/10/2013 1458h
1304328-009AMS	1,1,1-Trichloroethane	µg/L	SW8260C	23.4	20.00	0	117	67-147				4/11/2013 039h
1304328-009AMS	1,1-Dichloroethene	µg/L	SW8260C	22.6	20.00	0	113	51-152				4/11/2013 039h
1304328-009AMS	1,2-Dichlorobenzene	µg/L	SW8260C	20.4	20.00	0	102	70-130				4/11/2013 039h
1304328-009AMS	1,2-Dichloroethane	µg/L	SW8260C	21.7	20.00	0	108	39-162				4/11/2013 039h
1304328-009AMS	1,2-Dichloropropane	µg/L	SW8260C	19.3	20.00	0	96.4	59-135				4/11/2013 039h
1304328-009AMS	Benzene	µg/L	SW8260C	20.6	20.00	0	103	66-145				4/11/2013 039h

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Kyle F. Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304328-009AMS	Chlorobenzene	µg/L	SW8260C	20.1	20.00	0	101	63-140				4/11/2013 039h
1304328-009AMS	Chloroform	µg/L	SW8260C	19.6	20.00	0	98.0	50-146				4/11/2013 039h
1304328-009AMS	Ethylbenzene	µg/L	SW8260C	20.3	20.00	0	102	69-133				4/11/2013 039h
1304328-009AMS	Isopropylbenzene	µg/L	SW8260C	21.3	20.00	0	107	60-147				4/11/2013 039h
1304328-009AMS	Methyl tert-butyl ether	µg/L	SW8260C	22.0	20.00	0	110	37-189				4/11/2013 039h
1304328-009AMS	Methylene chloride	µg/L	SW8260C	29.6	20.00	0	148	30-192				4/11/2013 039h
1304328-009AMS	Naphthalene	µg/L	SW8260C	16.1	20.00	0	80.4	41-131				4/11/2013 039h
1304328-009AMS	Tetrahydrofuran	µg/L	SW8260C	18.6	20.00	0	93.1	43-146				4/11/2013 039h
1304328-009AMS	Toluene	µg/L	SW8260C	20.6	20.00	0	103	18-192				4/11/2013 039h
1304328-009AMS	Trichloroethene	µg/L	SW8260C	21.2	20.00	0	106	61-153				4/11/2013 039h
1304328-009AMS	Xylenes, Total	µg/L	SW8260C	61.7	60.00	0	103	42-167				4/11/2013 039h
1304328-009AMS	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	55.2	50.00		110	72-151				4/11/2013 039h
1304328-009AMS	Surr: 4-Bromofluorobenzene	%REC	SW8260C	51.2	50.00		102	80-128				4/11/2013 039h
1304328-009AMS	Surr: Dibromofluoromethane	%REC	SW8260C	53.5	50.00		107	80-124				4/11/2013 039h
1304328-009AMS	Surr: Toluene-d8	%REC	SW8260C	48.4	50.00		96.7	77-129				4/11/2013 039h

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304278-001AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	21.6	20.00	0	108	67-147	2.25	25		4/10/2013 1517h
1304278-001AMSD	1,1-Dichloroethene	µg/L	SW8260C	21.5	20.00	0	107	51-152	0.742	25		4/10/2013 1517h
1304278-001AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	19.3	20.00	0	96.7	70-130	4.05	25		4/10/2013 1517h
1304278-001AMSD	1,2-Dichloroethane	µg/L	SW8260C	20.1	20.00	0	100	39-162	1.33	25		4/10/2013 1517h
1304278-001AMSD	1,2-Dichloropropane	µg/L	SW8260C	18.5	20.00	0	92.4	59-135	2.41	25		4/10/2013 1517h
1304278-001AMSD	Benzene	µg/L	SW8260C	20.0	20.00	0	100	66-145	2.56	25		4/10/2013 1517h
1304278-001AMSD	Chlorobenzene	µg/L	SW8260C	19.4	20.00	0	97.0	63-140	2.24	25		4/10/2013 1517h
1304278-001AMSD	Chloroform	µg/L	SW8260C	19.6	20.00	0	98.2	50-146	2.71	25		4/10/2013 1517h
1304278-001AMSD	Ethylbenzene	µg/L	SW8260C	19.7	20.00	0	98.4	69-133	3.69	25		4/10/2013 1517h
1304278-001AMSD	Isopropylbenzene	µg/L	SW8260C	20.5	20.00	0	103	60-147	4.16	25		4/10/2013 1517h
1304278-001AMSD	Methyl tert-butyl ether	µg/L	SW8260C	20.4	20.00	0	102	37-189	1.38	25		4/10/2013 1517h
1304278-001AMSD	Methylene chloride	µg/L	SW8260C	28.1	20.00	0	141	30-192	19.1	25		4/10/2013 1517h
1304278-001AMSD	Naphthalene	µg/L	SW8260C	14.9	20.00	0	74.4	41-131	4.53	25		4/10/2013 1517h
1304278-001AMSD	Tetrahydrofuran	µg/L	SW8260C	15.2	20.00	0	75.8	43-146	7.86	25		4/10/2013 1517h
1304278-001AMSD	Toluene	µg/L	SW8260C	19.6	20.00	0	98.2	18-192	2.91	25		4/10/2013 1517h
1304278-001AMSD	Trichloroethene	µg/L	SW8260C	20.4	20.00	0	102	61-153	2.18	25		4/10/2013 1517h
1304278-001AMSD	Xylenes, Total	µg/L	SW8260C	59.6	60.00	0	99.3	42-167	3.53	25		4/10/2013 1517h
1304278-001AMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	52.7	50.00		105	72-151				4/10/2013 1517h
1304278-001AMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	50.5	50.00		101	80-128				4/10/2013 1517h
1304278-001AMSD	Surr: Dibromofluoromethane	%REC	SW8260C	52.6	50.00		105	80-124				4/10/2013 1517h
1304278-001AMSD	Surr: Toluene-d8	%REC	SW8260C	48.6	50.00		97.2	77-129				4/10/2013 1517h
1304328-009AMSD	1,1,1-Trichloroethane	µg/L	SW8260C	21.9	20.00	0	109	67-147	6.8	25		4/11/2013 058h
1304328-009AMSD	1,1-Dichloroethene	µg/L	SW8260C	21.2	20.00	0	106	51-152	6.54	25		4/11/2013 058h
1304328-009AMSD	1,2-Dichlorobenzene	µg/L	SW8260C	18.9	20.00	0	94.4	70-130	7.69	25		4/11/2013 058h
1304328-009AMSD	1,2-Dichloroethane	µg/L	SW8260C	20.6	20.00	0	103	39-162	5.11	25		4/11/2013 058h
1304328-009AMSD	1,2-Dichloropropane	µg/L	SW8260C	17.9	20.00	0	89.4	59-135	7.43	25		4/11/2013 058h
1304328-009AMSD	Benzene	µg/L	SW8260C	19.8	20.00	0	99.0	66-145	3.81	25		4/11/2013 058h

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Utah Division of Water Quality
Lab Set ID: 1304328
Project: MP 44.9

Contact: Chris Bittner
Dept: MSVOA
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1304328-009AMSD	Chlorobenzene	µg/L	SW8260C	19.2	20.00	0	96.2	63-140	4.57	25		4/11/2013 058h
1304328-009AMSD	Chloroform	µg/L	SW8260C	18.4	20.00	0	91.9	50-146	6.37	25		4/11/2013 058h
1304328-009AMSD	Ethylbenzene	µg/L	SW8260C	19.6	20.00	0	98.0	69-133	3.66	25		4/11/2013 058h
1304328-009AMSD	Isopropylbenzene	µg/L	SW8260C	20.5	20.00	0	103	60-147	3.78	25		4/11/2013 058h
1304328-009AMSD	Methyl tert-butyl ether	µg/L	SW8260C	21.0	20.00	0	105	37-189	4.89	25		4/11/2013 058h
1304328-009AMSD	Methylene chloride	µg/L	SW8260C	27.8	20.00	0	139	30-192	6.13	25		4/11/2013 058h
1304328-009AMSD	Naphthalene	µg/L	SW8260C	15.0	20.00	0	74.9	41-131	7.15	25		4/11/2013 058h
1304328-009AMSD	Tetrahydrofuran	µg/L	SW8260C	17.6	20.00	0	88.0	43-146	5.58	25		4/11/2013 058h
1304328-009AMSD	Toluene	µg/L	SW8260C	19.4	20.00	0	97.3	18-192	5.69	25		4/11/2013 058h
1304328-009AMSD	Trichloroethene	µg/L	SW8260C	20.0	20.00	0	100	61-153	5.69	25		4/11/2013 058h
1304328-009AMSD	Xylenes, Total	µg/L	SW8260C	59.6	60.00	0	99.3	42-167	3.5	25		4/11/2013 058h
1304328-009AMSD	Surr: 1,2-Dichloroethane-d4	%REC	SW8260C	54.9	50.00		110	72-151				4/11/2013 058h
1304328-009AMSD	Surr: 4-Bromofluorobenzene	%REC	SW8260C	50.3	50.00		101	80-128				4/11/2013 058h
1304328-009AMSD	Surr: Dibromofluoromethane	%REC	SW8260C	52.4	50.00		105	80-124				4/11/2013 058h
1304328-009AMSD	Surr: Toluene-d8	%REC	SW8260C	49.0	50.00		97.9	77-129				4/11/2013 058h

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\006F0601.D
Sample Name: 1304328-001C

==========

Acq. Operator : Seq. Line : 6
Acq. Instrument : GC C Location : Vial 6
Injection Date : 4/12/2013 5:04:43 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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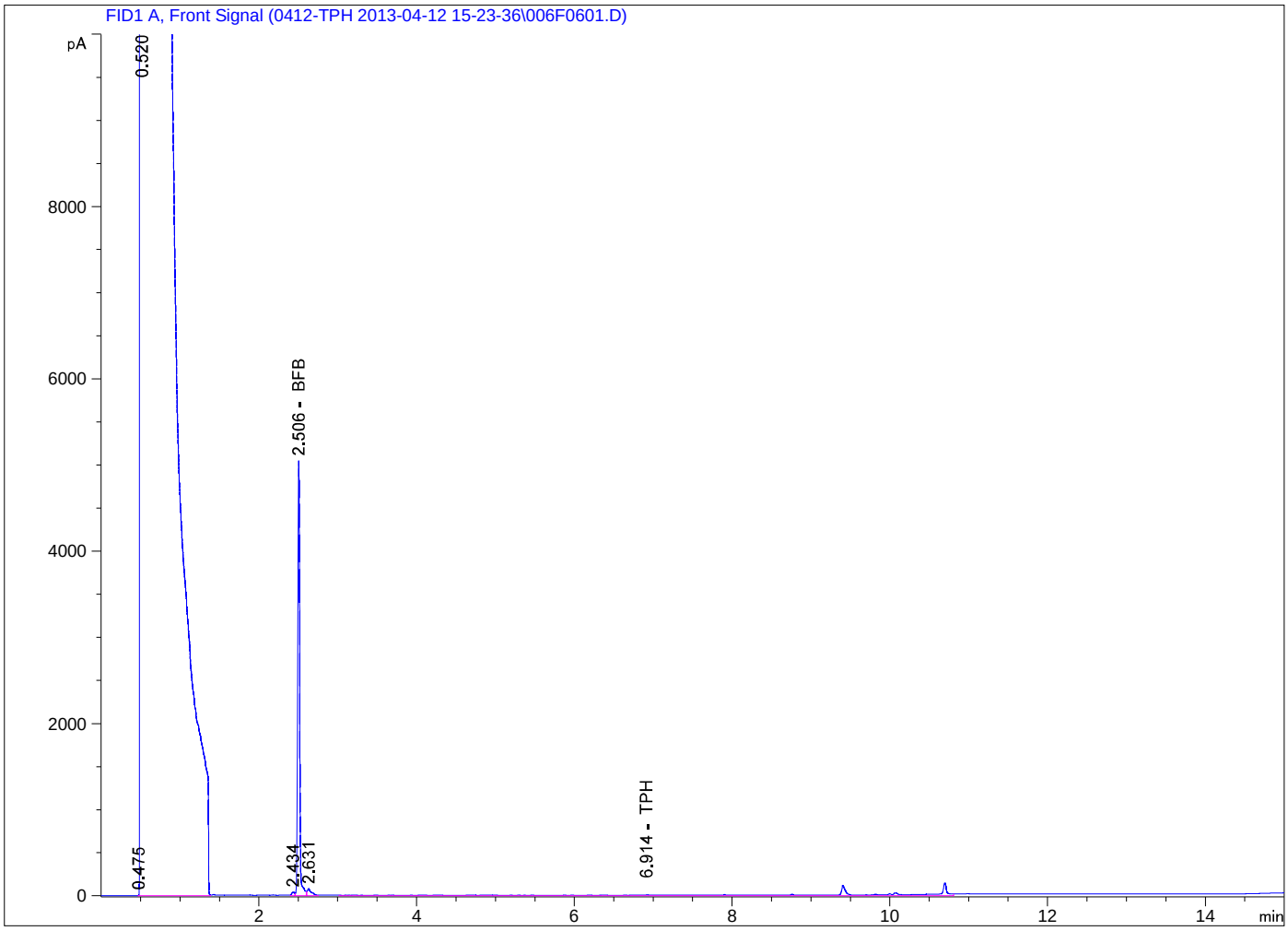

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\007F0701.D
Sample Name: 1304328-002C

==========

Acq. Operator : Seq. Line : 7
Acq. Instrument : GC C Location : Vial 7
Injection Date : 4/12/2013 5:24:18 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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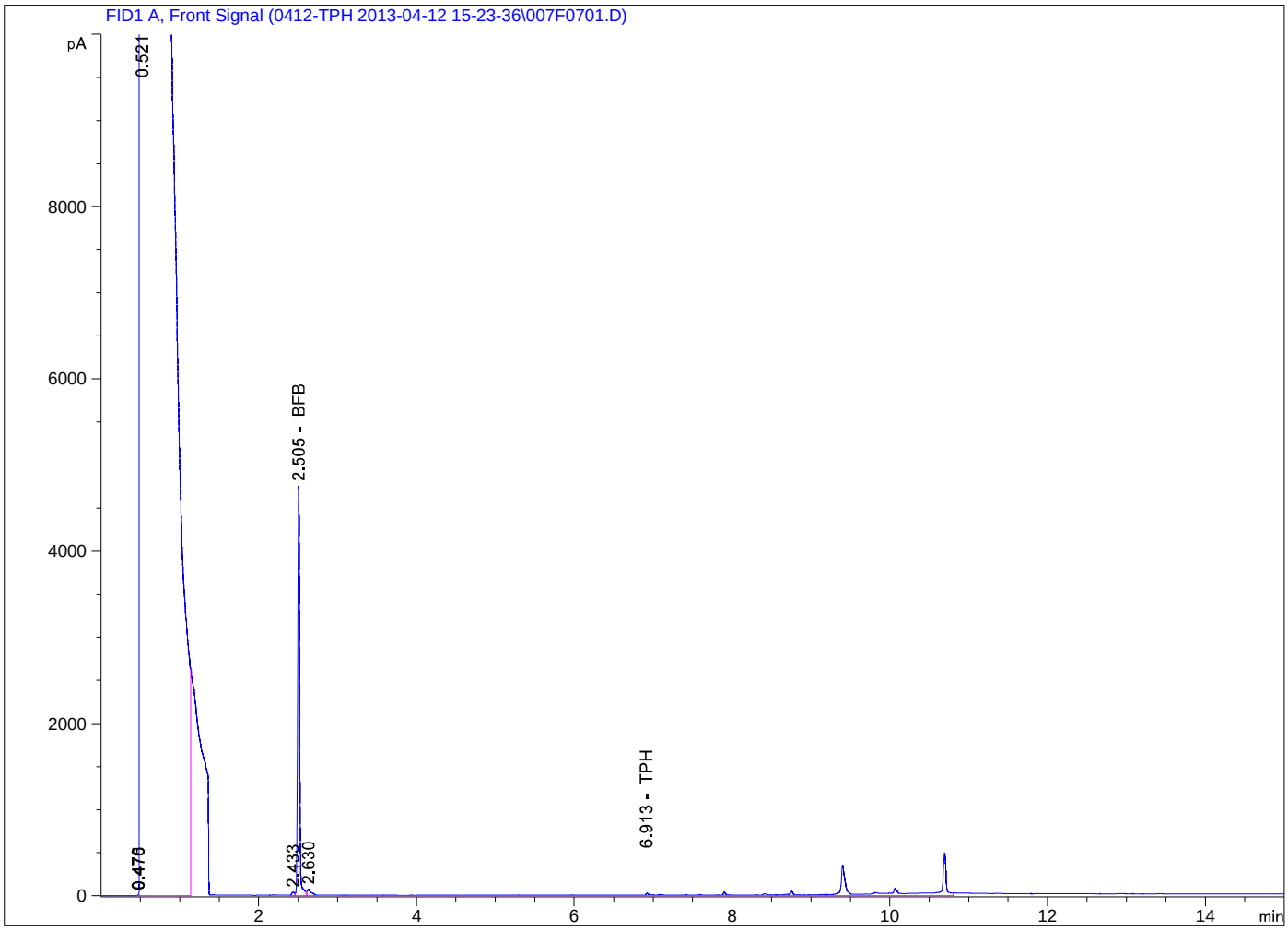

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\010F1001.D
Sample Name: 1304328-003C

==========

Acq. Operator : Seq. Line : 10
Acq. Instrument : GC C Location : Vial 10
Injection Date : 4/12/2013 6:23:29 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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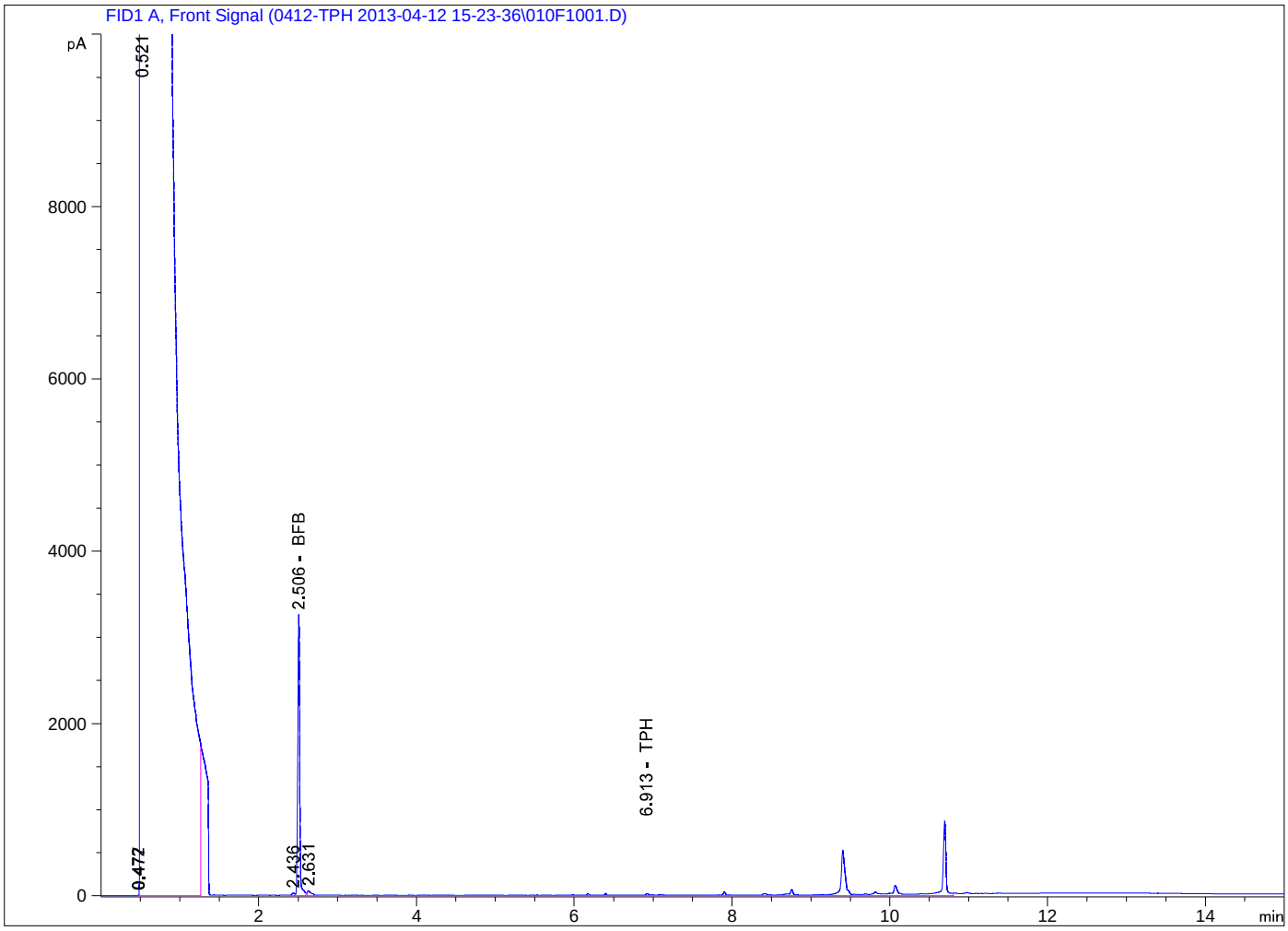

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\011F1101.D
Sample Name: 1304328-004C

==========

Acq. Operator : Seq. Line : 11
Acq. Instrument : GC C Location : Vial 11
Injection Date : 4/12/2013 6:43:19 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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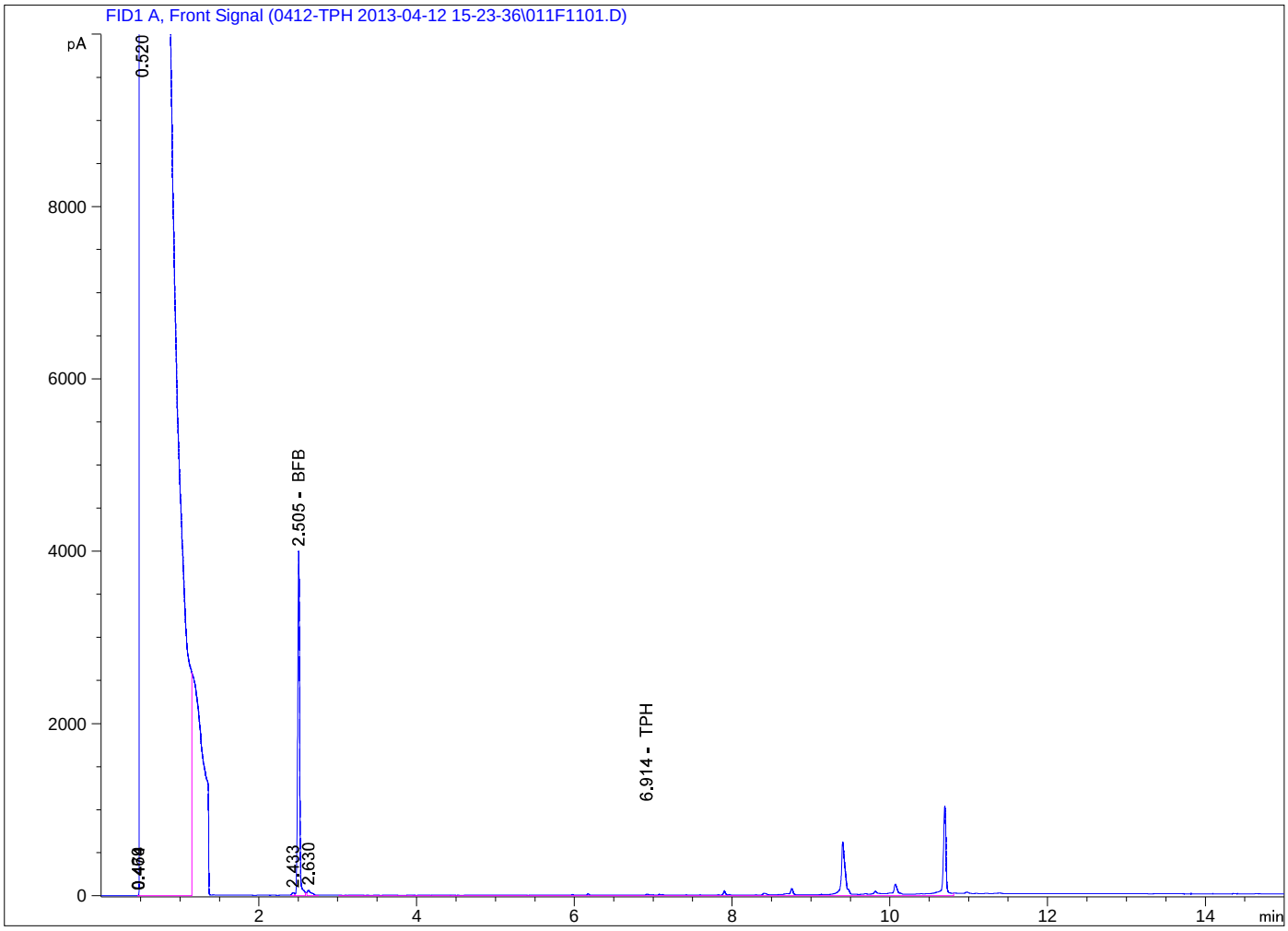

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\012F1201.D
Sample Name: 1304328-005C

==========

Acq. Operator : Seq. Line : 12
Acq. Instrument : GC C Location : Vial 12
Injection Date : 4/12/2013 7:03:04 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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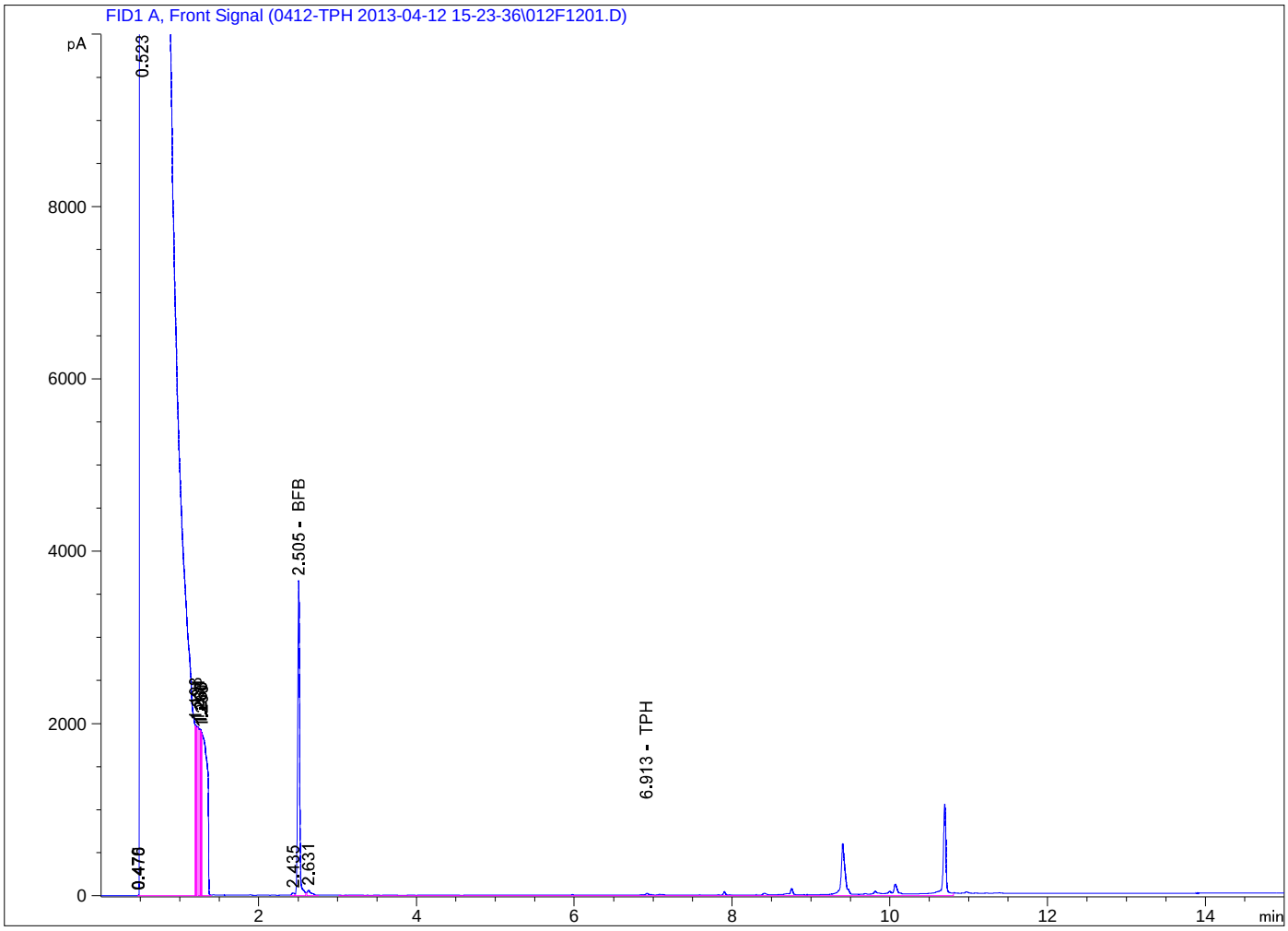

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\013F1301.D
Sample Name: 1304328-006C

==========

Acq. Operator : Seq. Line : 13
Acq. Instrument : GC C Location : Vial 13
Injection Date : 4/12/2013 7:22:43 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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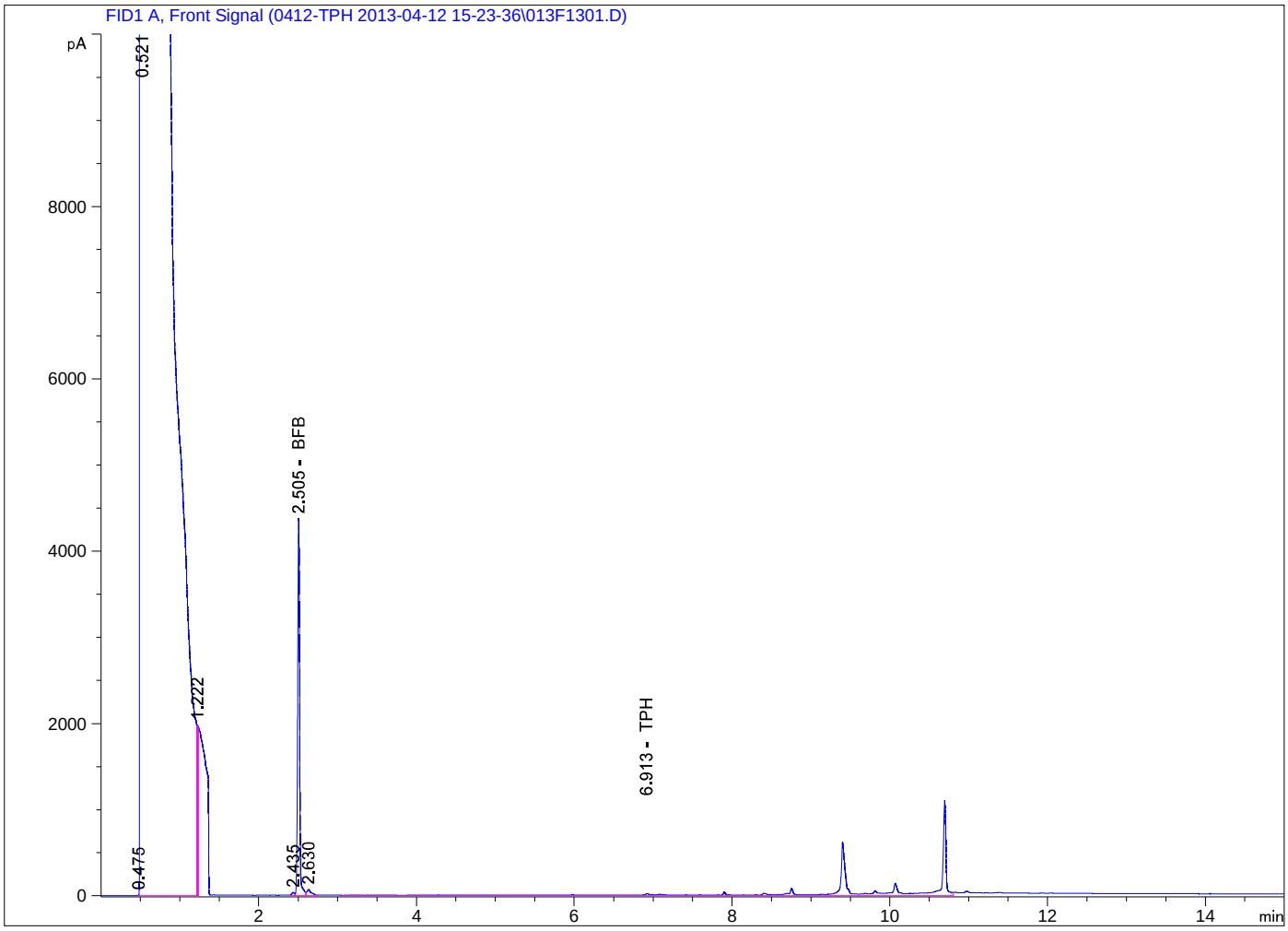

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\014F1401.D
Sample Name: 1304328-007C

==========

Acq. Operator : Seq. Line : 14
Acq. Instrument : GC C Location : Vial 14
Injection Date : 4/12/2013 7:42:29 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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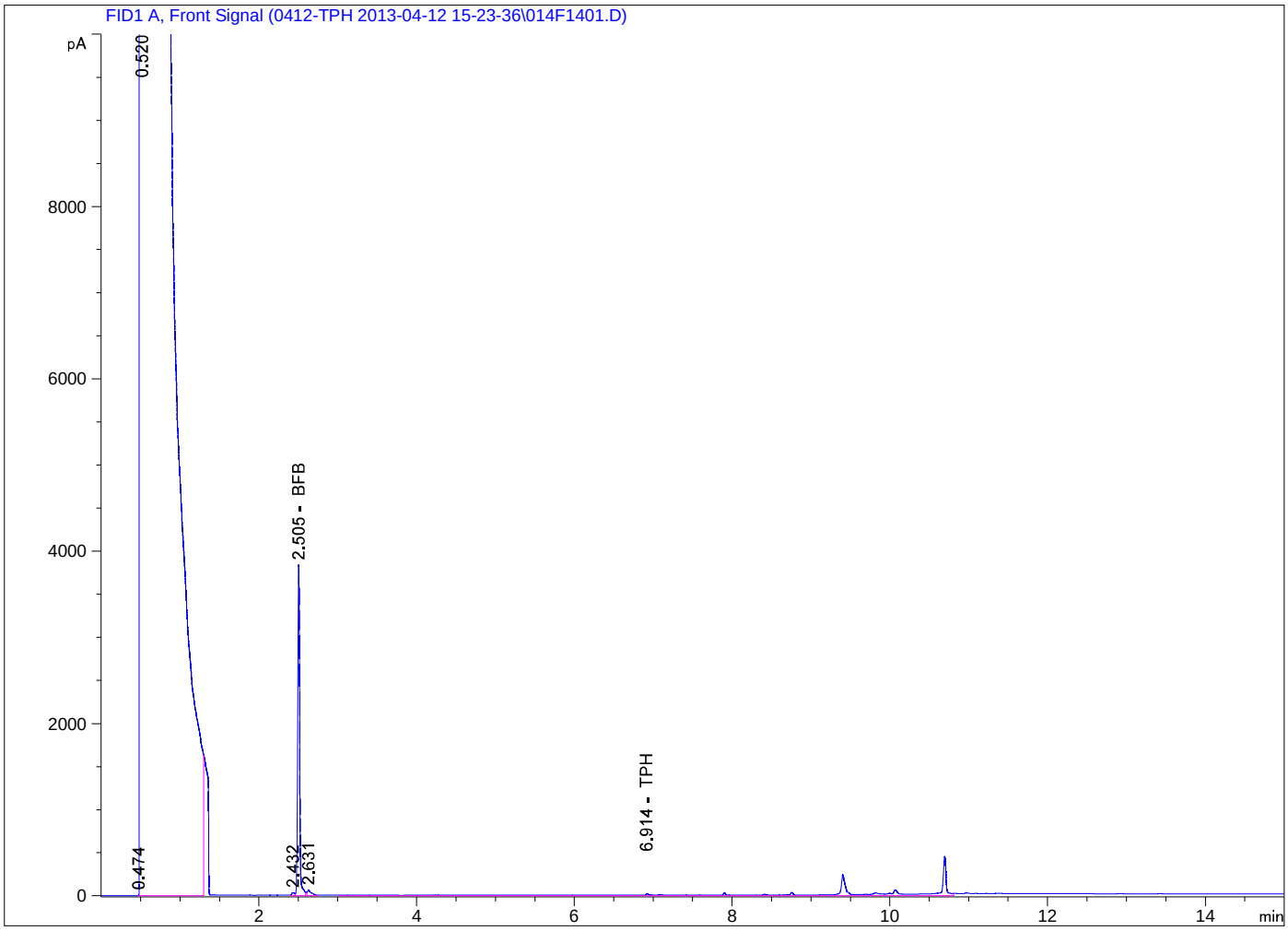

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\015F1501.D
Sample Name: 1304328-008C

==========

Acq. Operator : Seq. Line : 15
Acq. Instrument : GC C Location : Vial 15
Injection Date : 4/12/2013 8:02:10 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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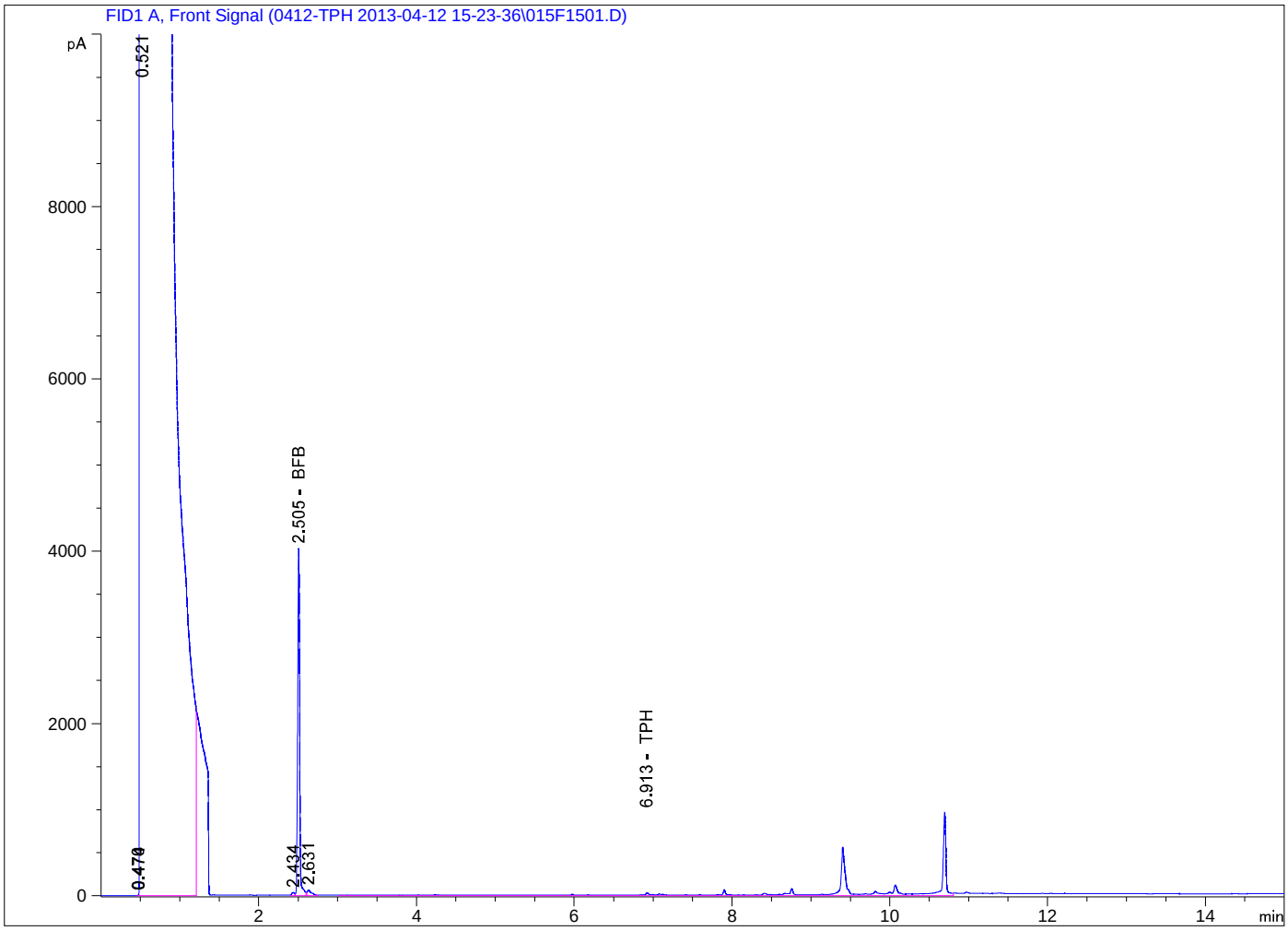

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\016F1601.D
Sample Name: 1304328-009C

==========

Acq. Operator : Seq. Line : 16
Acq. Instrument : GC C Location : Vial 16
Injection Date : 4/12/2013 8:22:01 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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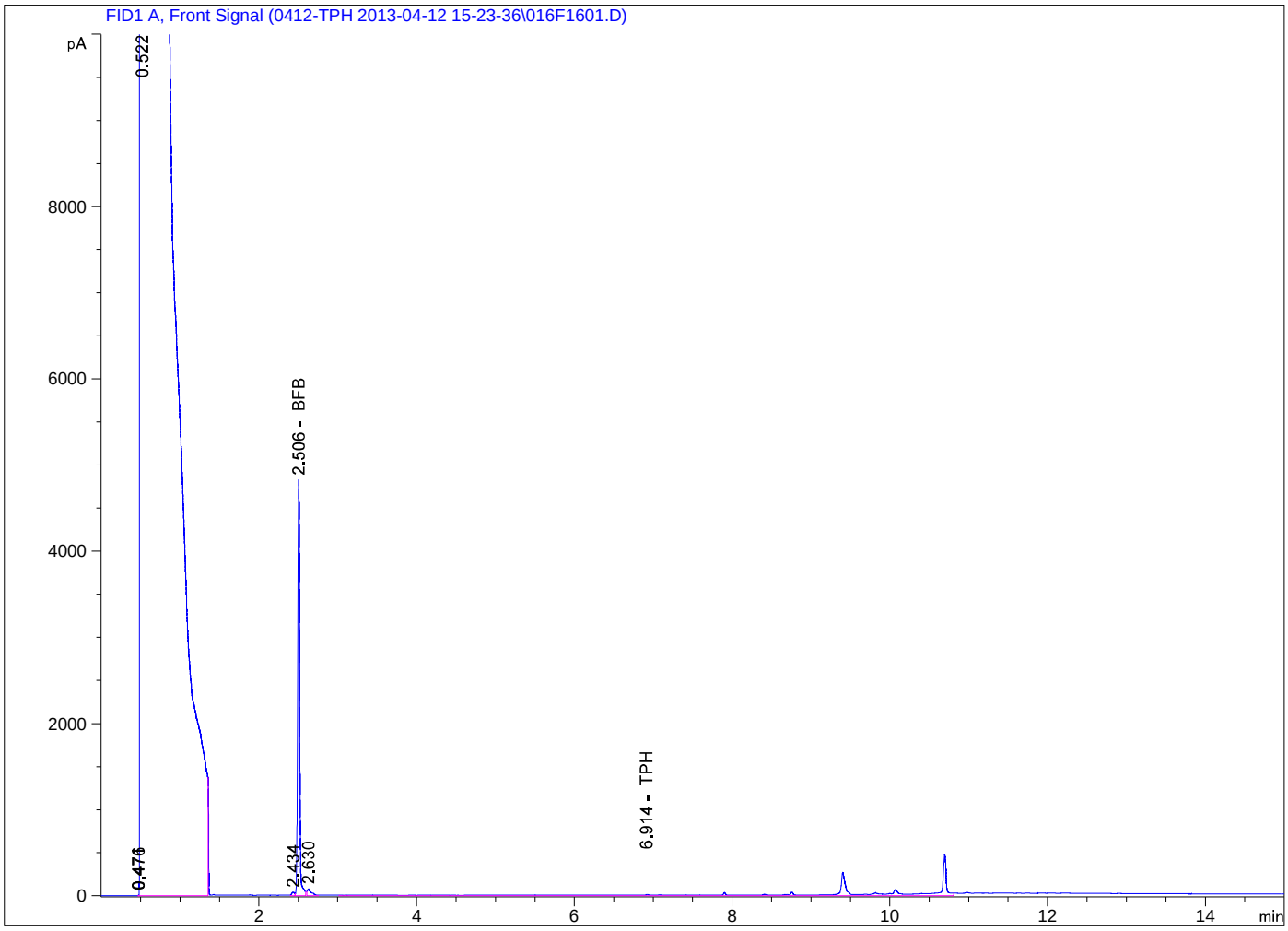

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\017F1701.D
Sample Name: 1304328-010C

==========

Acq. Operator : Seq. Line : 17
Acq. Instrument : GC C Location : Vial 17
Injection Date : 4/12/2013 8:41:54 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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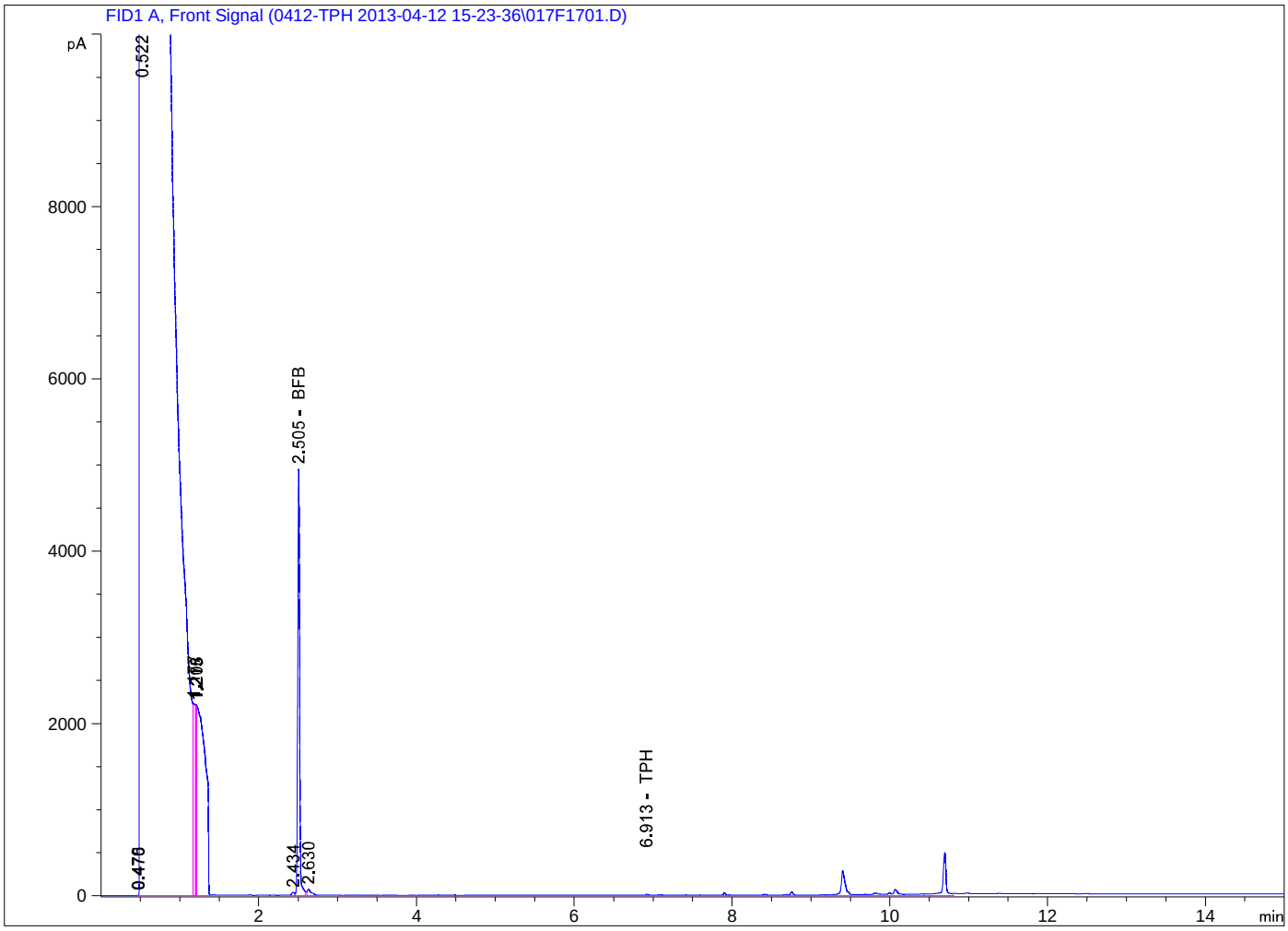

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\019F2101.D
Sample Name: 1304328-011C

==========

Acq. Operator : Seq. Line : 21
Acq. Instrument : GC C Location : Vial 19
Injection Date : 4/12/2013 10:00:30 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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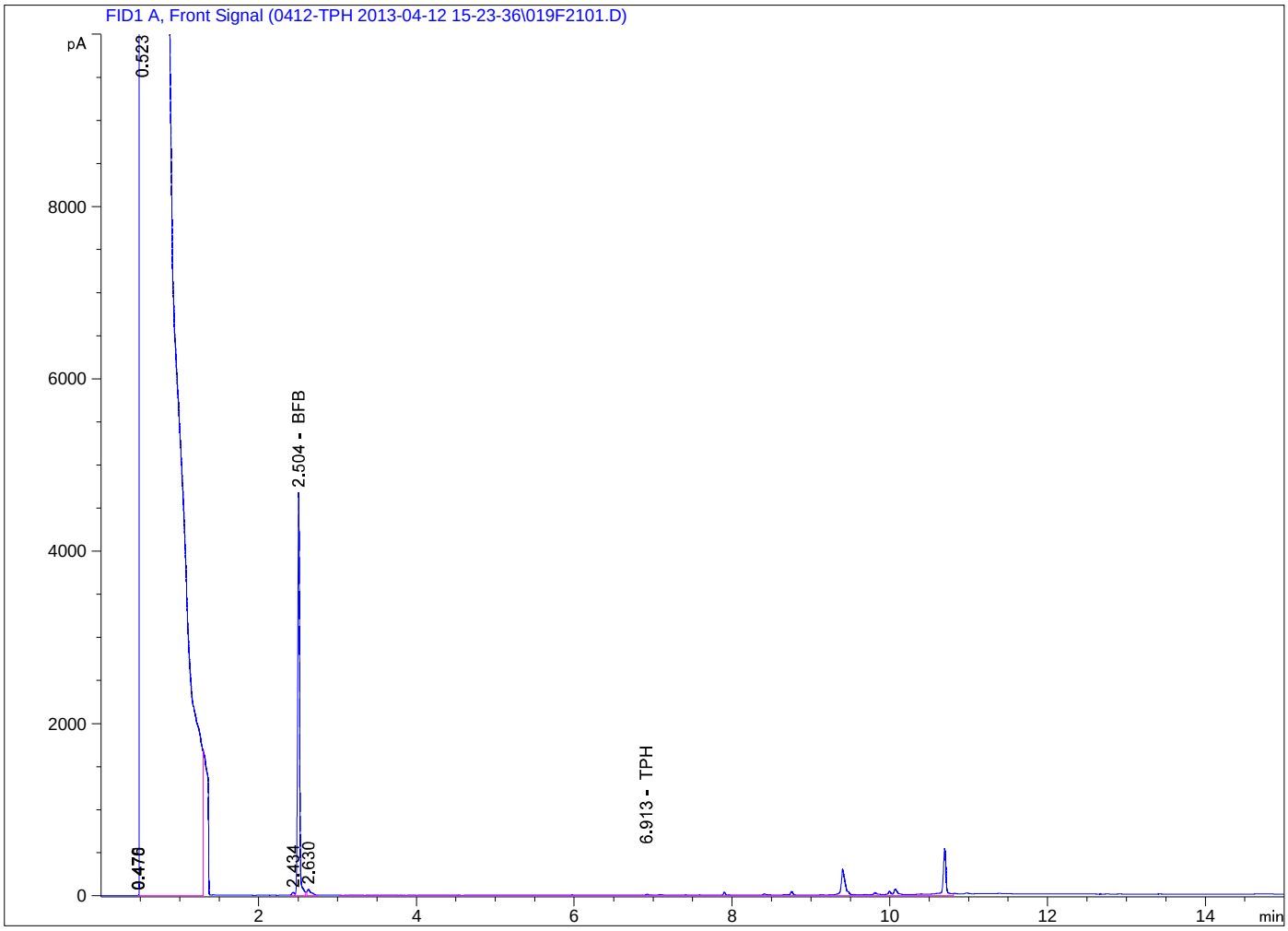

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\020F2201.D
Sample Name: 1304328-012C

==========

Acq. Operator : Seq. Line : 22
Acq. Instrument : GC C Location : Vial 20
Injection Date : 4/12/2013 10:20:11 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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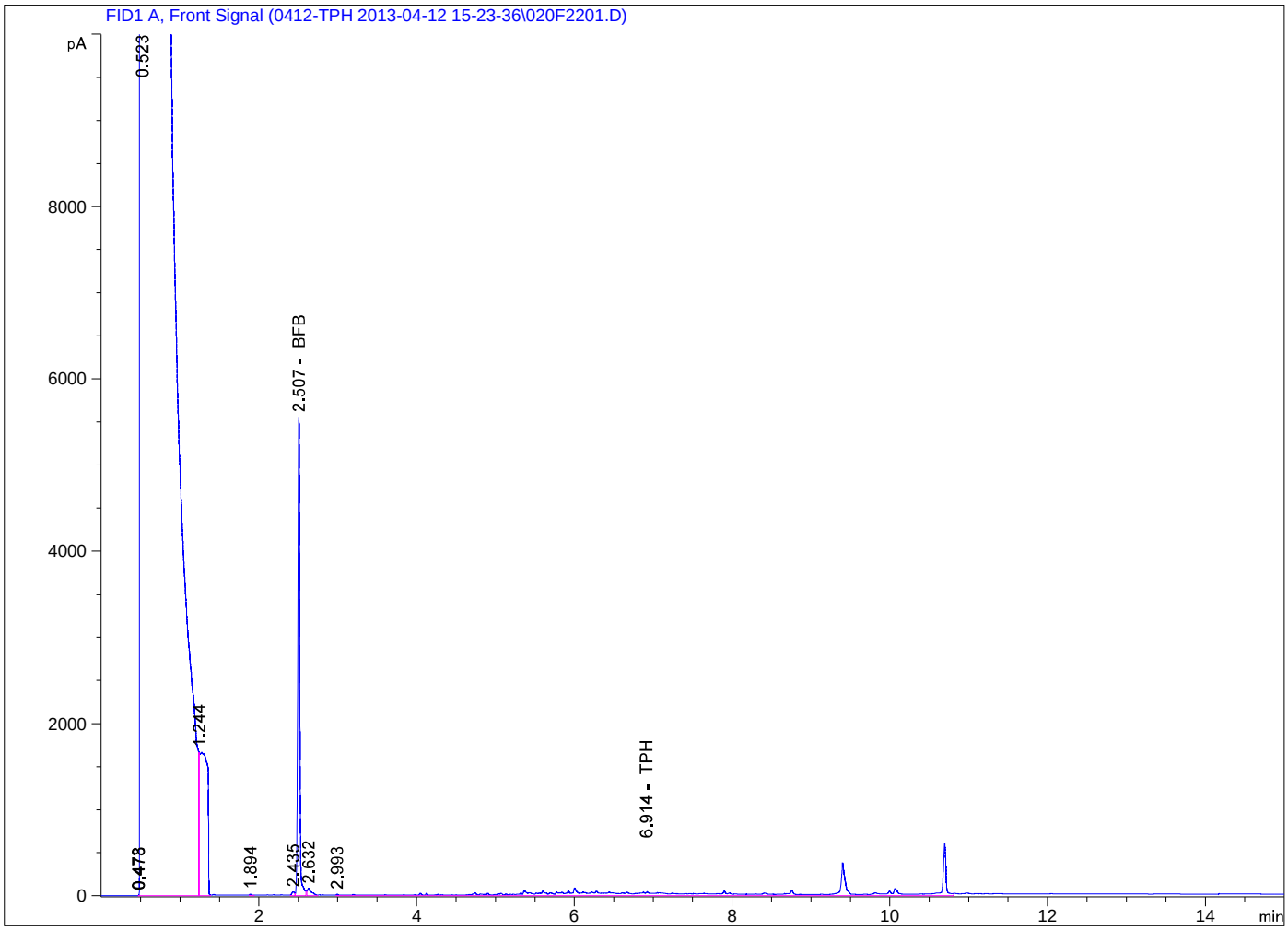

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\021F2301.D
Sample Name: 1304328-013C

==========

Acq. Operator : Seq. Line : 23
Acq. Instrument : GC C Location : Vial 21
Injection Date : 4/12/2013 10:39:48 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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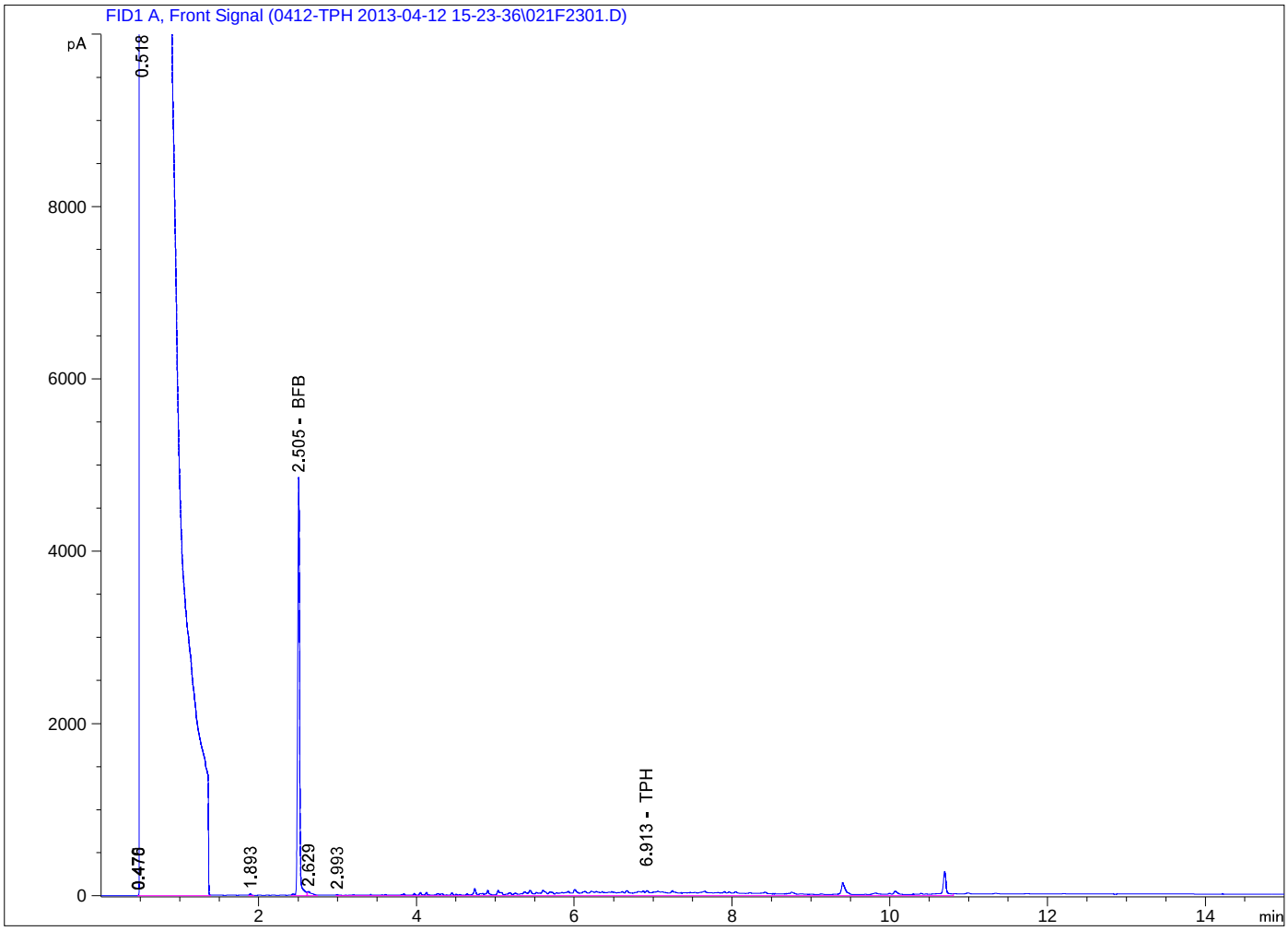

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\022F2401.D
Sample Name: 1304328-014C

==========

Acq. Operator : Seq. Line : 24
Acq. Instrument : GC C Location : Vial 22
Injection Date : 4/12/2013 10:59:37 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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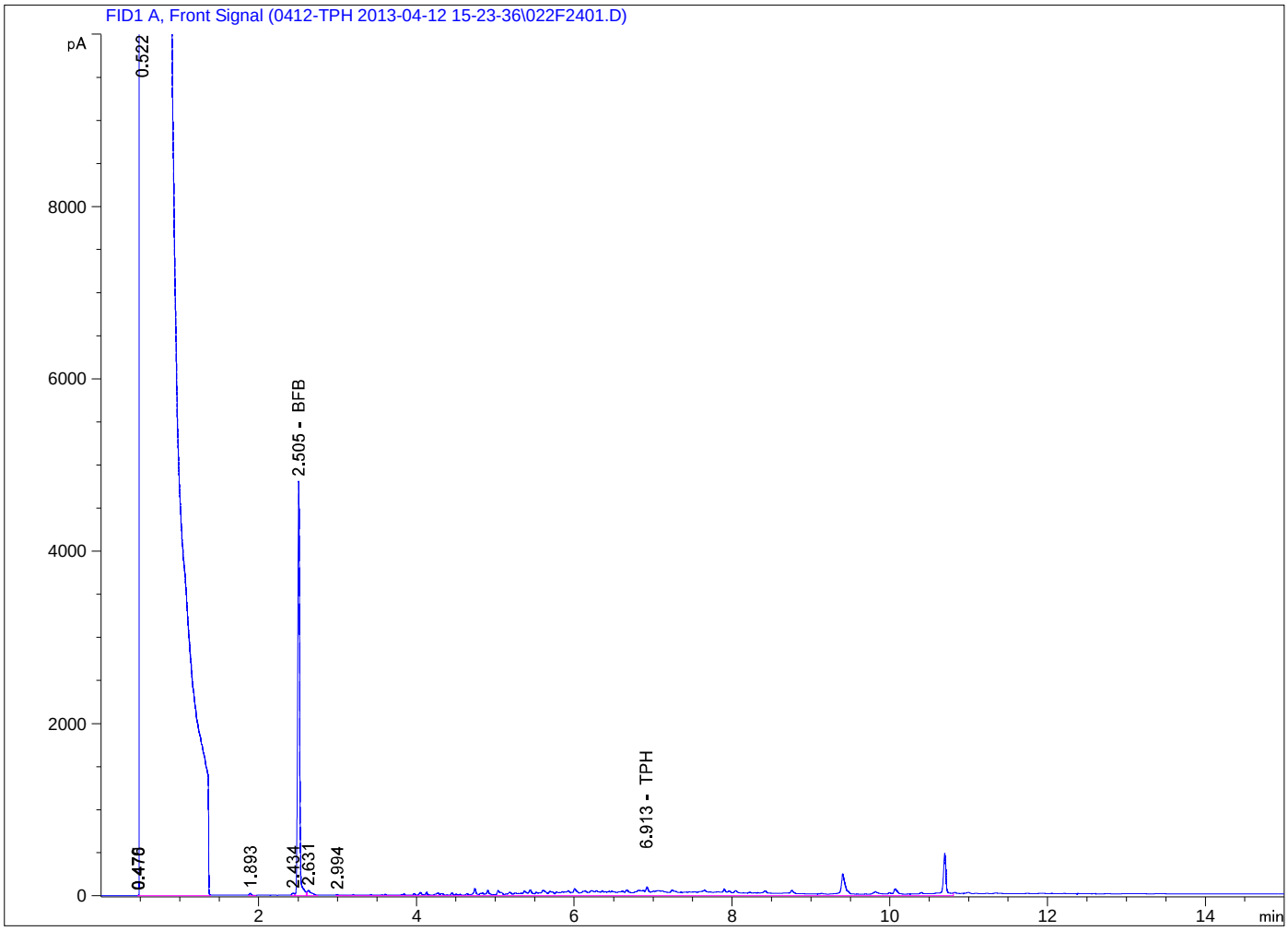

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\023F2501.D
Sample Name: 1304328-017C

==========

Acq. Operator : Seq. Line : 25
Acq. Instrument : GC C Location : Vial 23
Injection Date : 4/12/2013 11:19:29 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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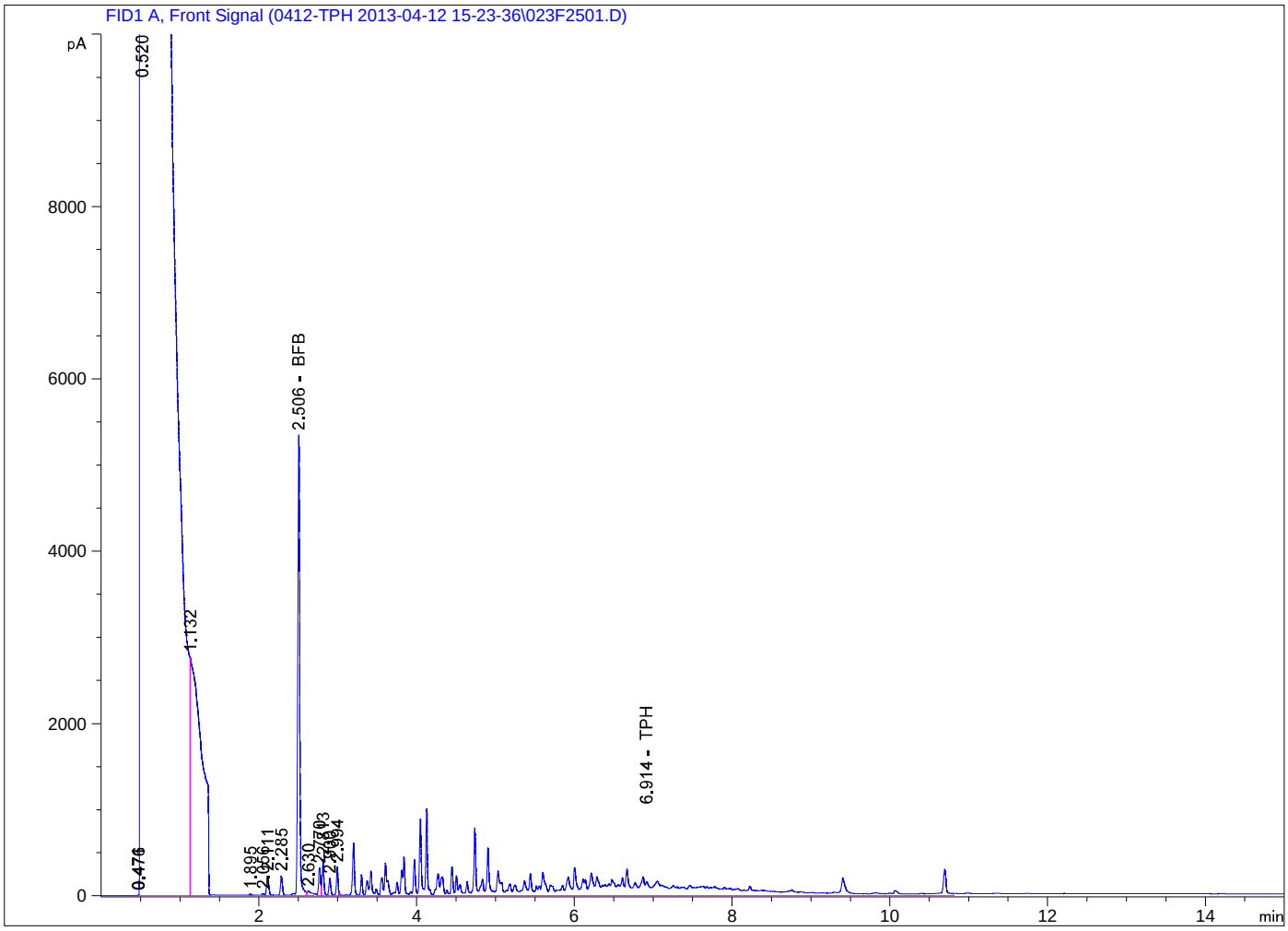

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\024F2601.D
Sample Name: 1304328-018C

==========

Acq. Operator : Seq. Line : 26
Acq. Instrument : GC C Location : Vial 24
Injection Date : 4/12/2013 11:39:14 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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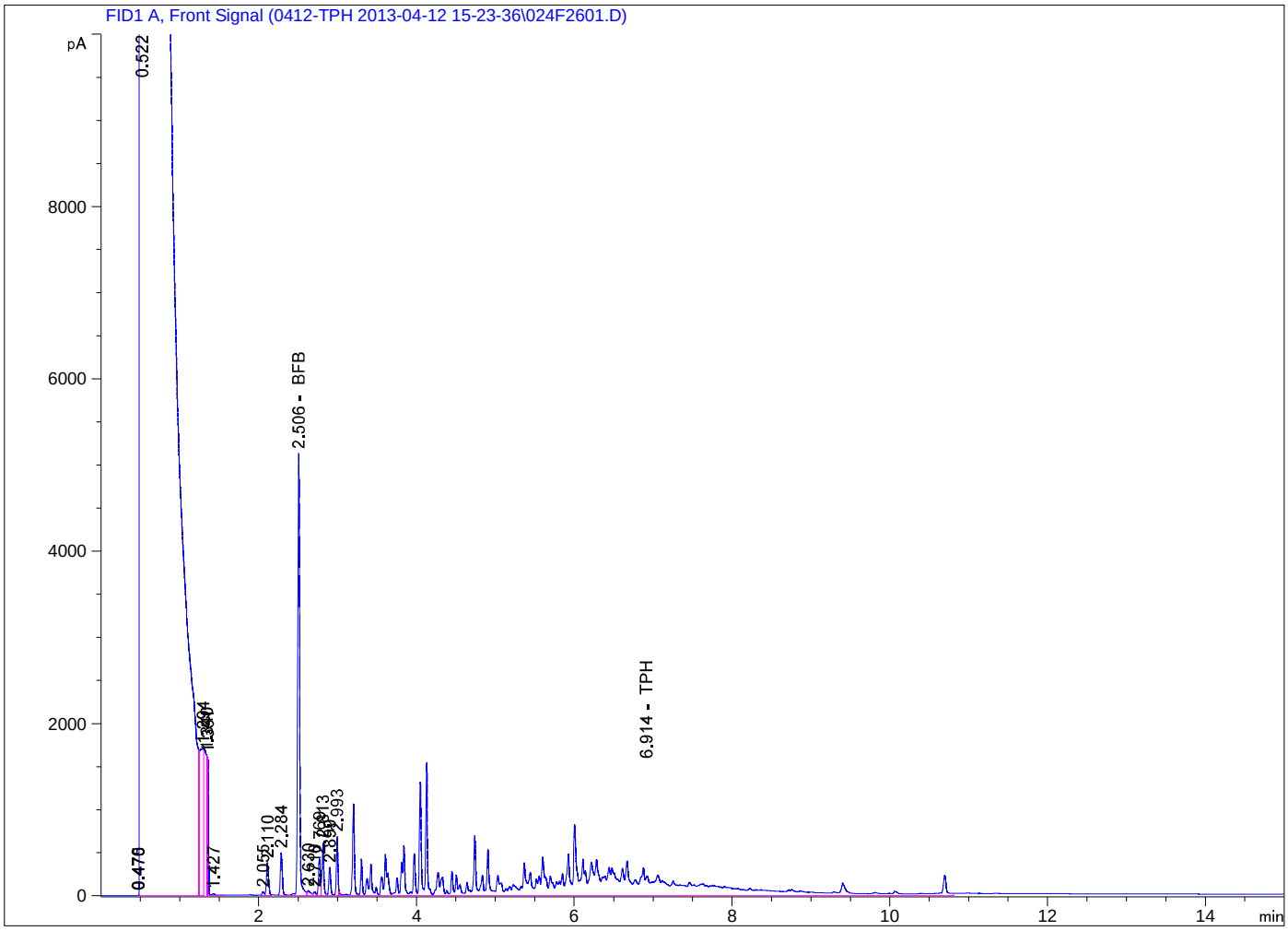

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\025F2701.D
Sample Name: 1304328-019C

==========

Acq. Operator : Seq. Line : 27
Acq. Instrument : GC C Location : Vial 25
Injection Date : 4/12/2013 11:59:01 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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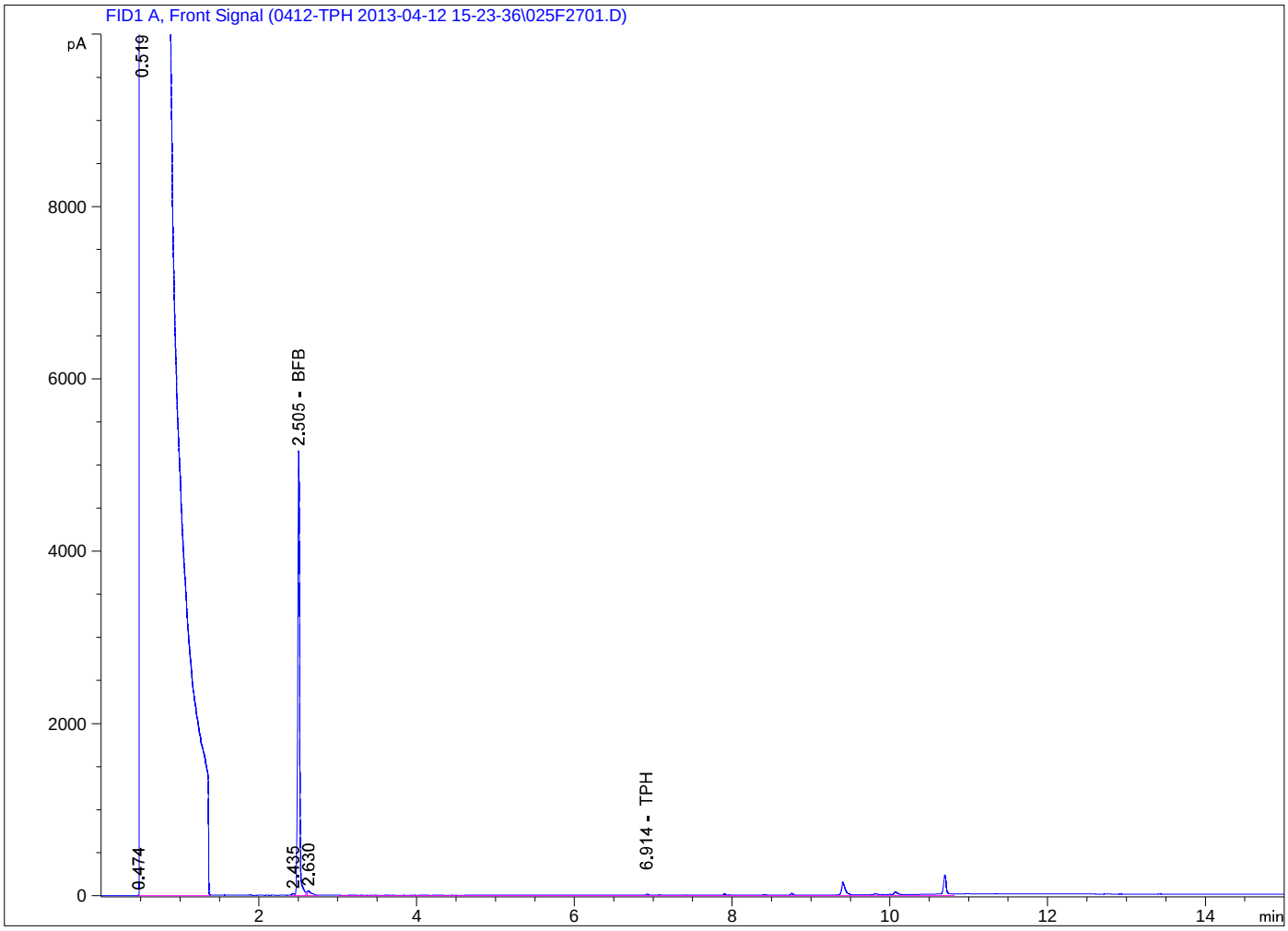

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\026F2801.D
Sample Name: 1304328-020C

==========

Acq. Operator : Seq. Line : 28
Acq. Instrument : GC C Location : Vial 26
Injection Date : 4/13/2013 12:18:40 AM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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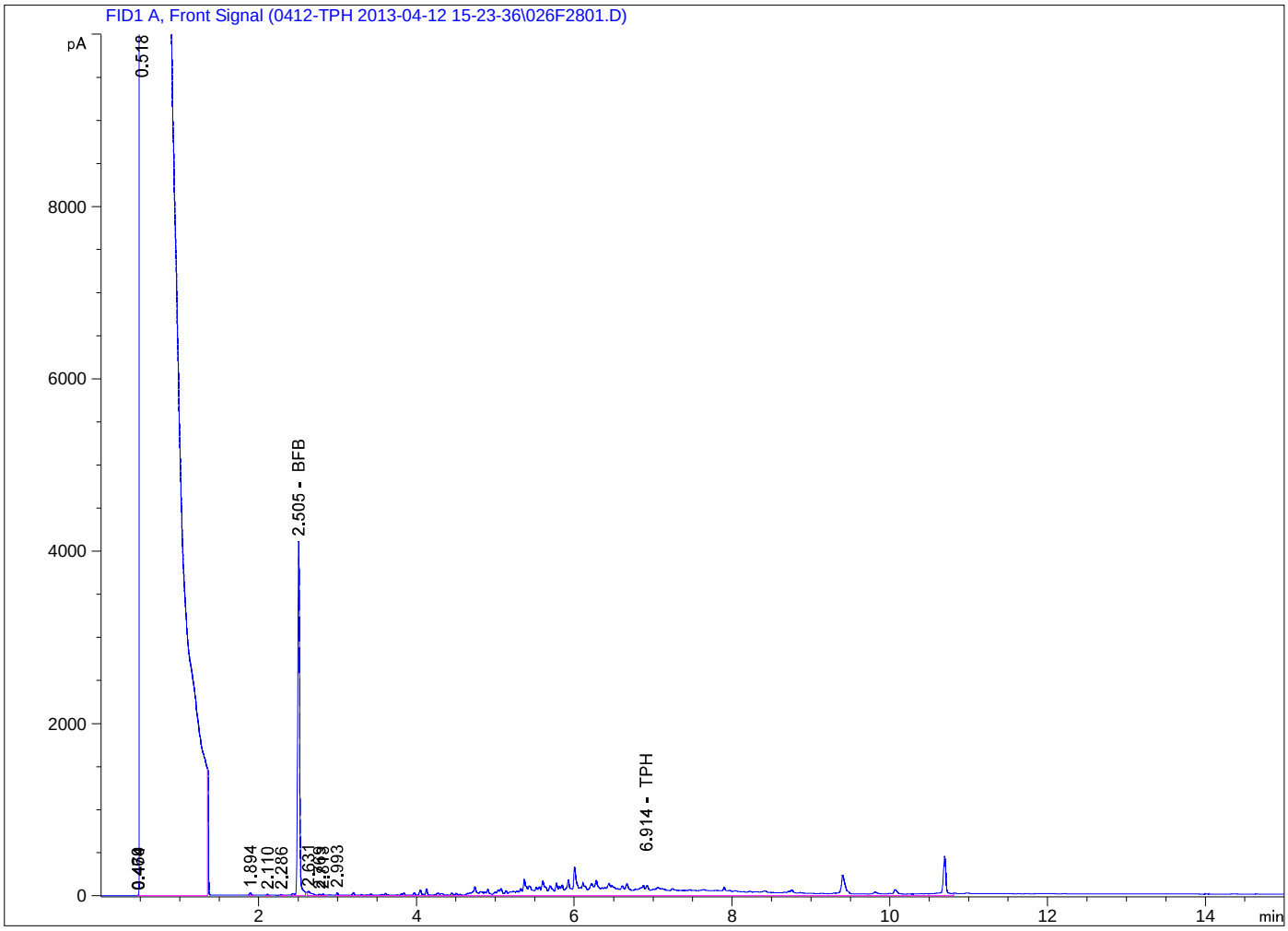

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External Standard Report

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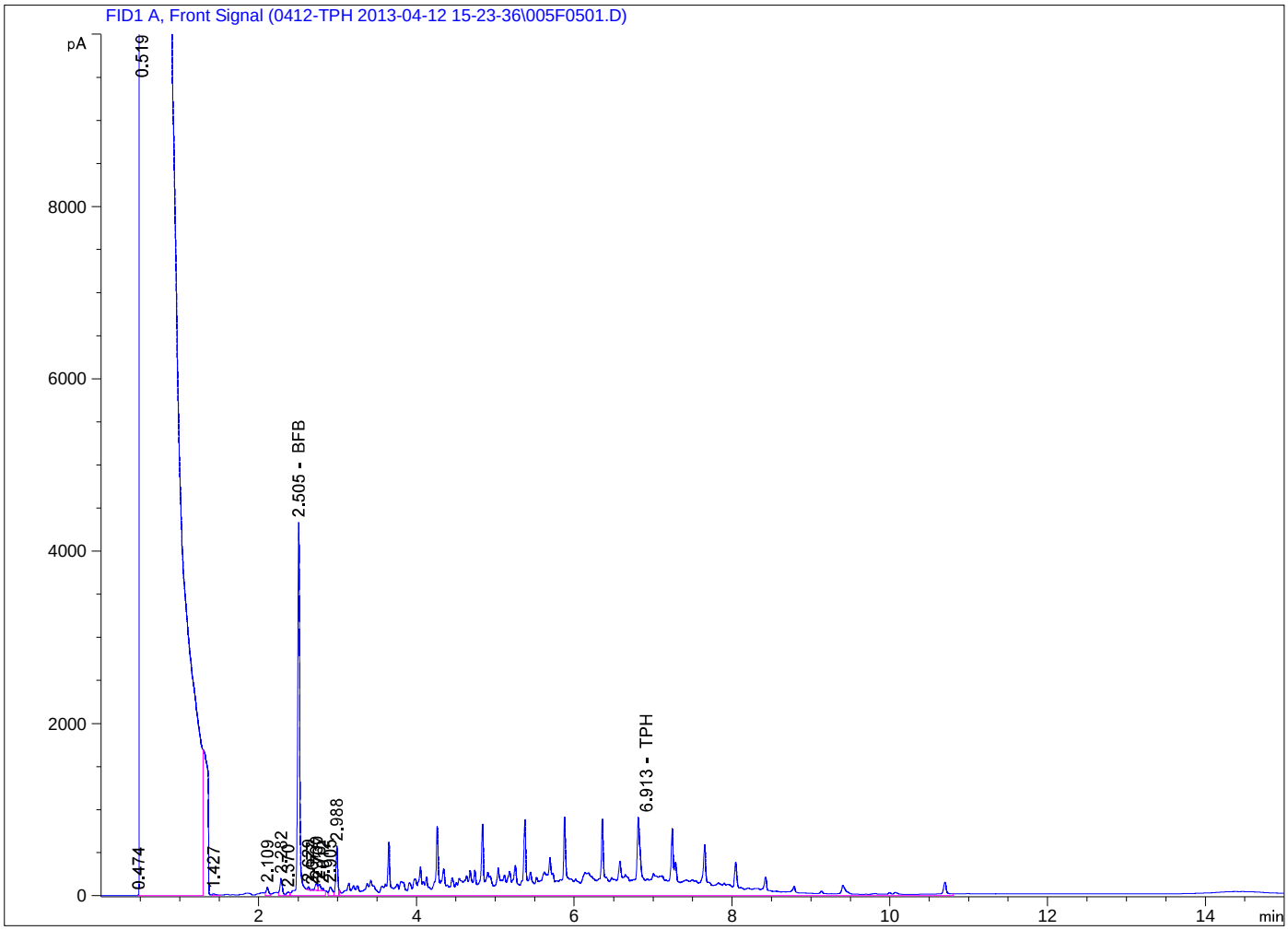
Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\005F0501.D
Sample Name: LCS-24778

==========

Acq. Operator : Seq. Line : 5
Acq. Instrument : GC C Location : Vial 5
Injection Date : 4/12/2013 4:45:06 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

==========



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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\004F0401.D
Sample Name: MB-24778

==========

Acq. Operator	:	Seq. Line	: 4
Acq. Instrument	: GC C	Location	: Vial 4
Injection Date	: 4/12/2013 4:25:30 PM	Inj	: 1
		Inj Volume	: 5 µl

Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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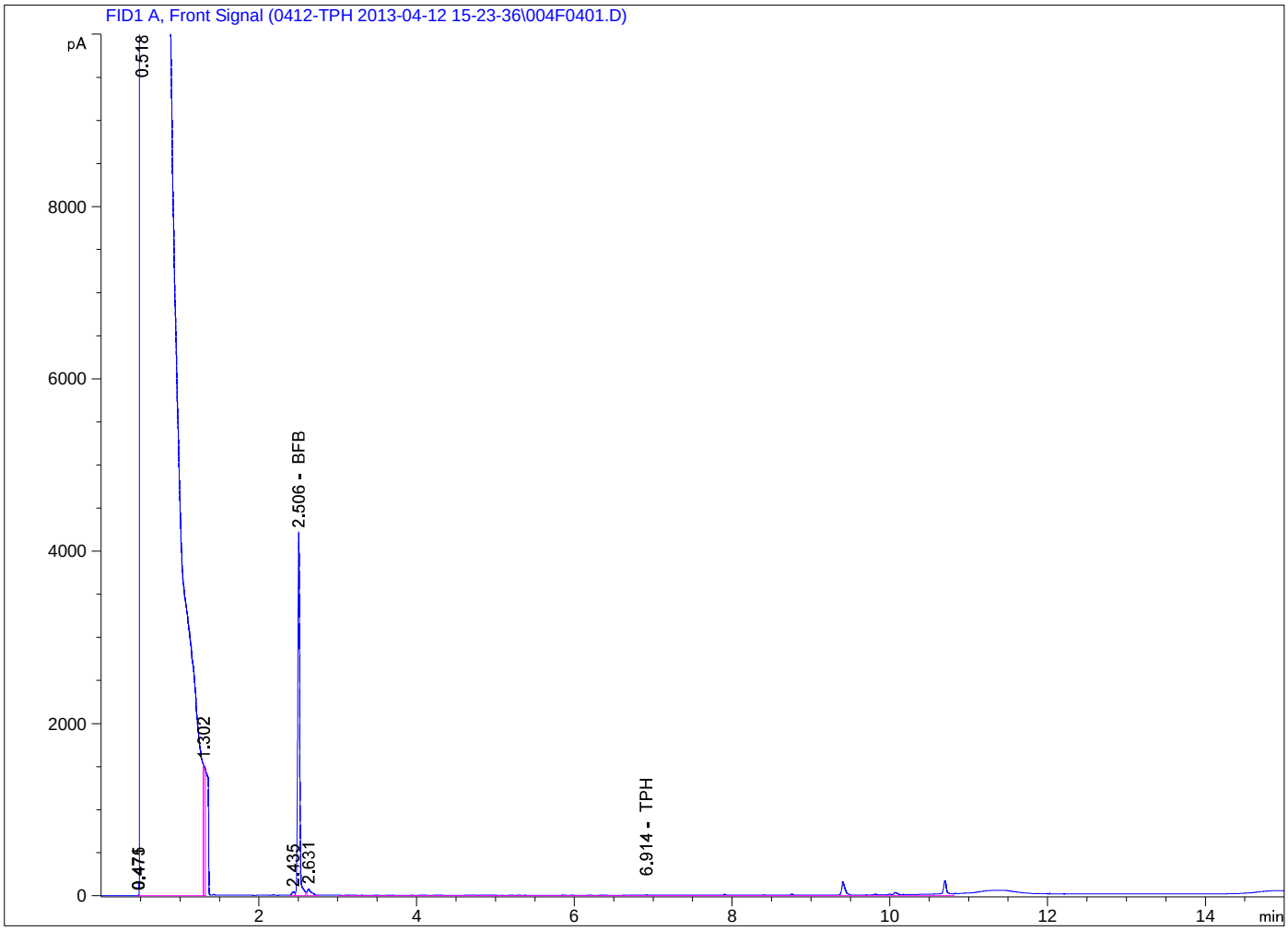

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\008F0801.D
Sample Name: 1304328-002CMS

==========

Acq. Operator : Seq. Line : 8
Acq. Instrument : GC C Location : Vial 8
Injection Date : 4/12/2013 5:44:04 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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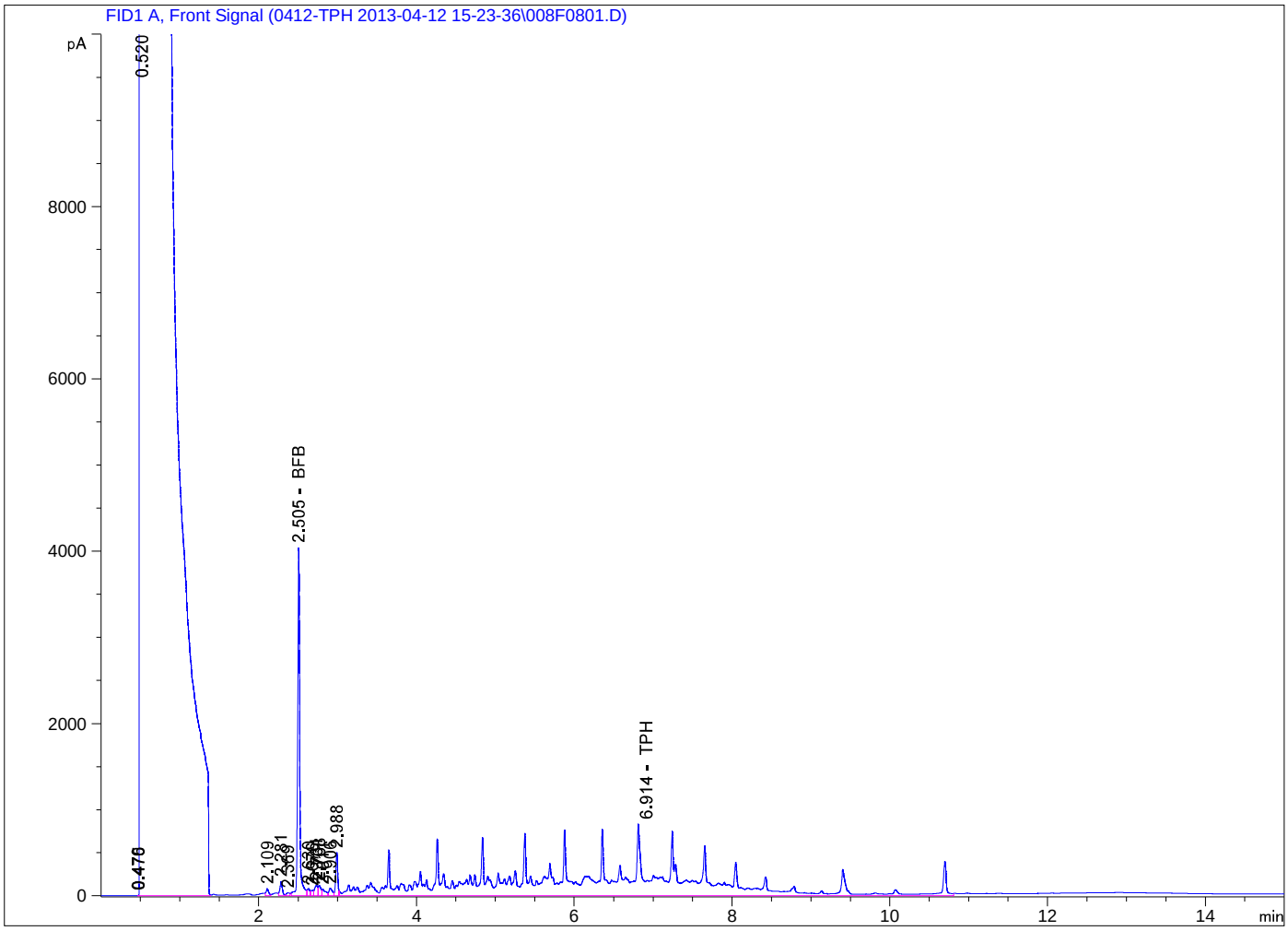

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External Standard Report

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Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Data File C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\009F0901.D
Sample Name: 1304328-002CMSD

==========

Acq. Operator : Seq. Line : 9
Acq. Instrument : GC C Location : Vial 9
Injection Date : 4/12/2013 6:03:52 PM Inj : 1
Inj Volume : 5 µl
Acq. Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M
Last changed : 4/5/2013 10:56:16 AM
Analysis Method : C:\CHEM32\1\DATA\0412-TPH 2013-04-12 15-23-36\TPH-FRONT-1090171B.M (Sequence Method)
Last changed : 4/14/2013 12:49:22 PM

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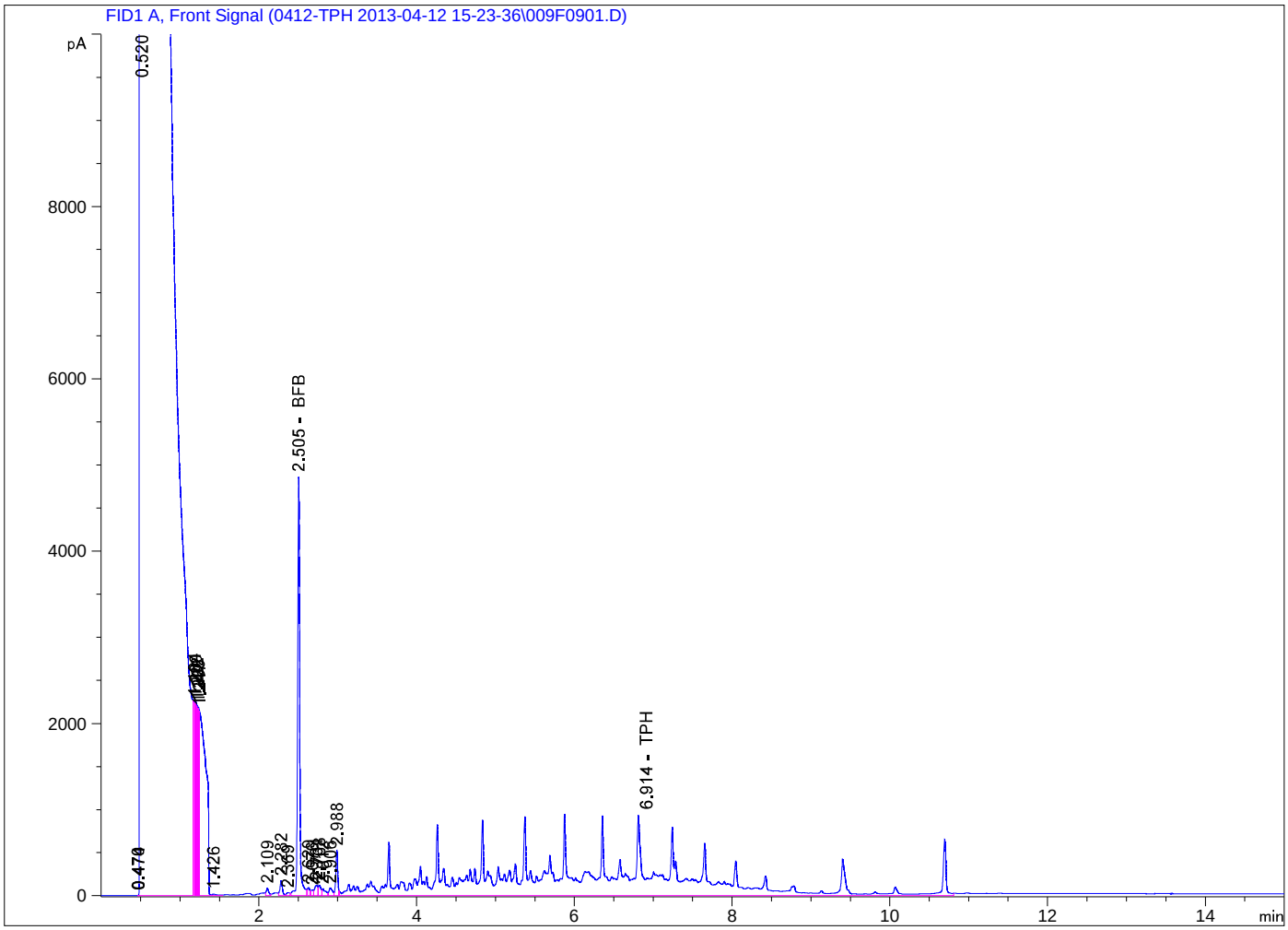

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External Standard Report

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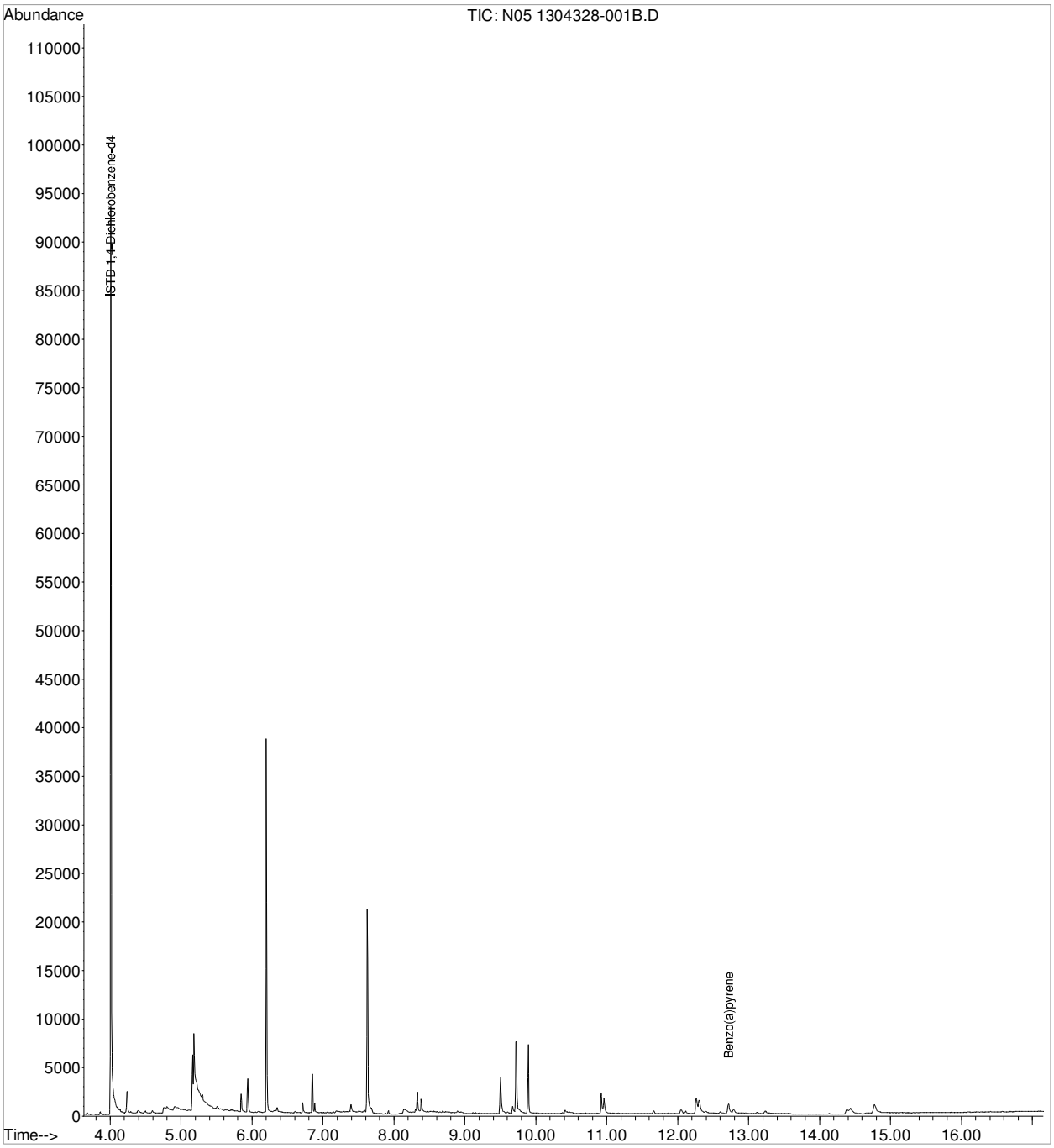
Sorted By : Signal
Calib. Data Modified : 4/14/2013 12:48:39 PM
Multiplier: : 1.0000
Dilution: : 1.0000
Do not use Multiplier & Dilution Factor with ISTDs

Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N05 1304328-001B.D
Acq On : 12 Apr 2013 12:48 pm
Operator : ALICIA HABERLE
Sample : 1304328-001B
Misc : SAMP
ALS Vial : 13 Sample Multiplier: 1

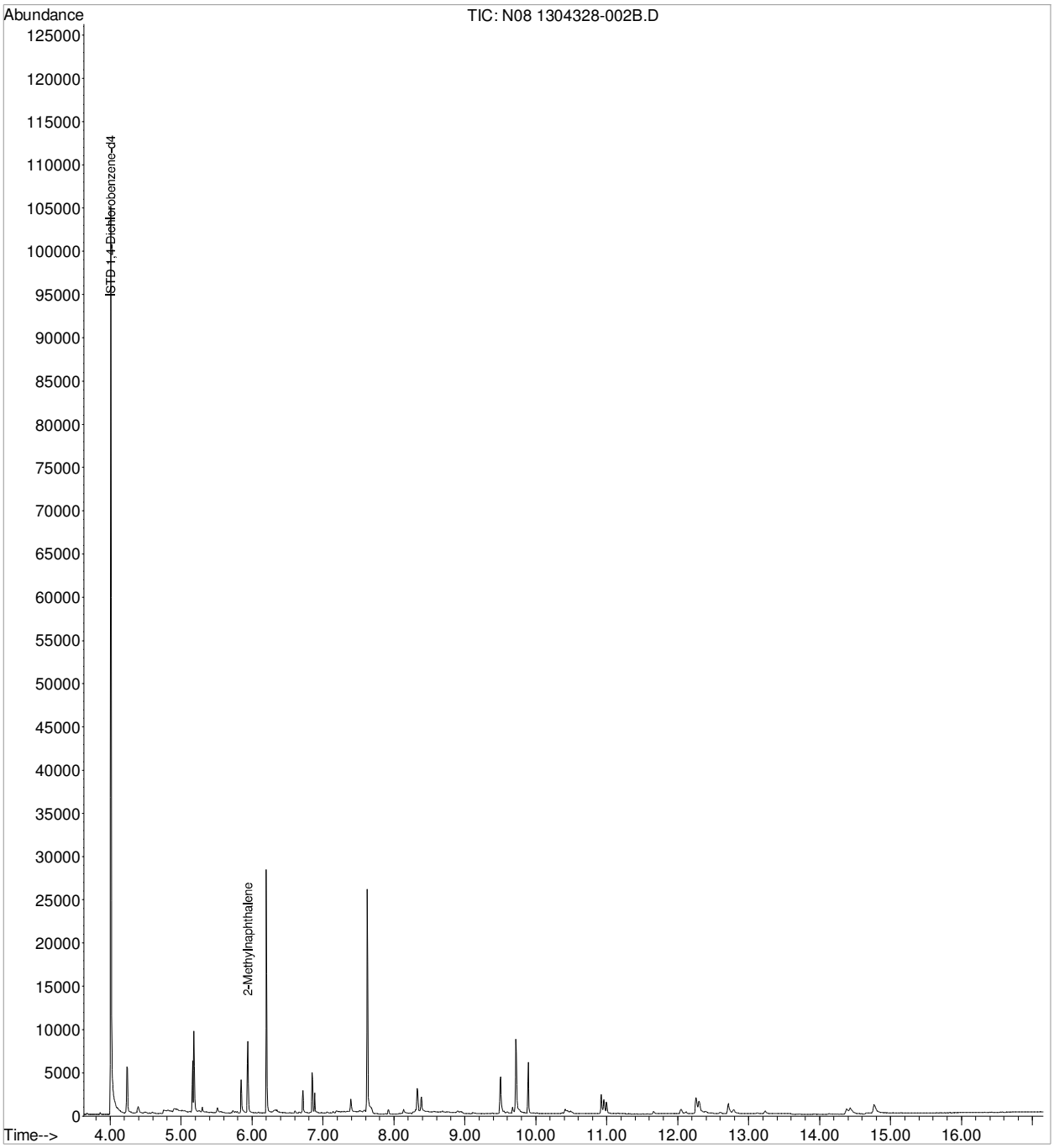
Quant Time: Apr 15 06:23:58 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N08 1304328-002B.D
Acq On : 12 Apr 2013 2:08 pm
Operator : ALICIA HABERLE
Sample : 1304328-002B
Misc : SAMP
ALS Vial : 16 Sample Multiplier: 1

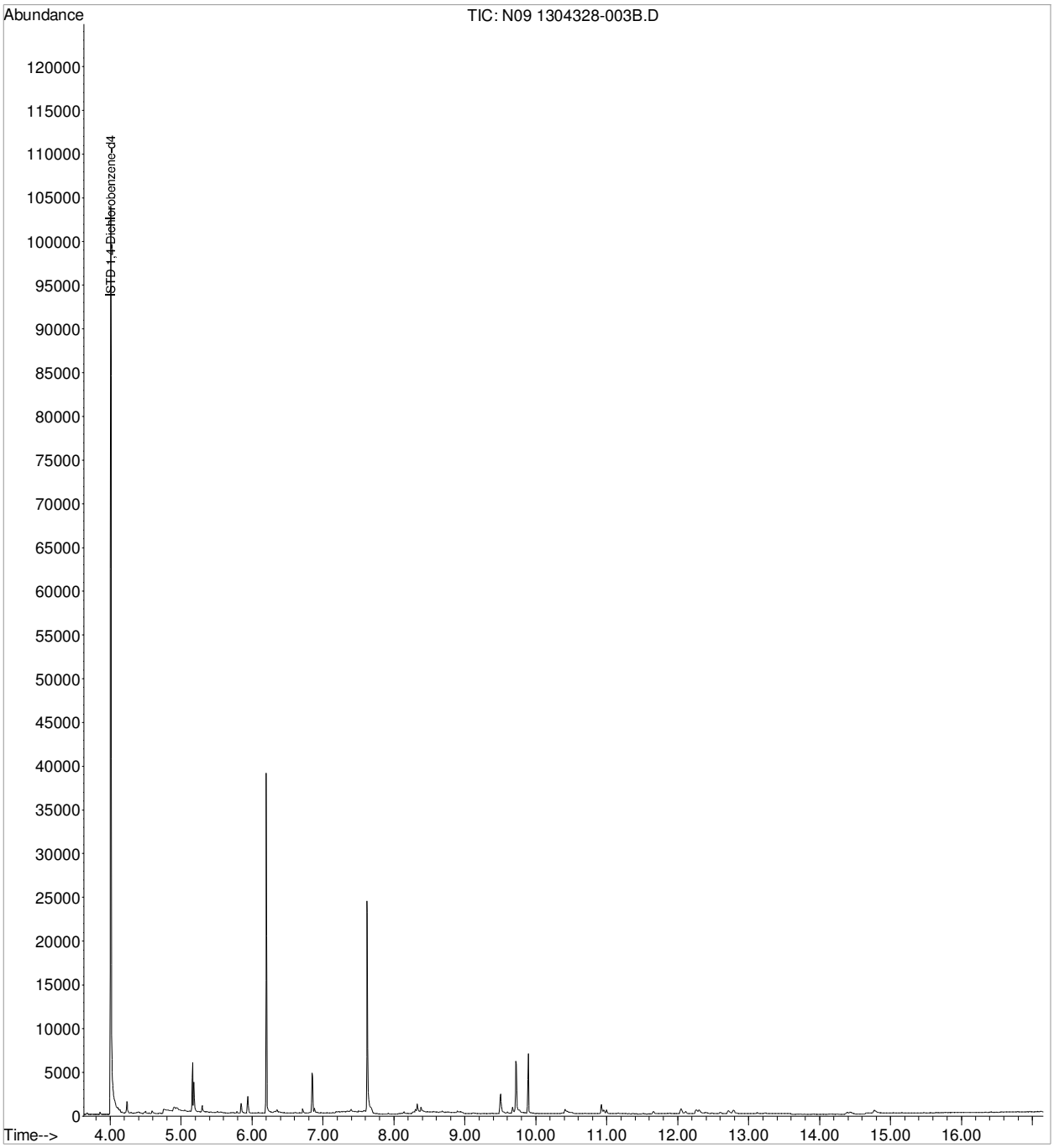
Quant Time: Apr 15 06:25:31 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N09 1304328-003B.D
Acq On : 12 Apr 2013 2:34 pm
Operator : ALICIA HABERLE
Sample : 1304328-003B
Misc : SAMP
ALS Vial : 17 Sample Multiplier: 1

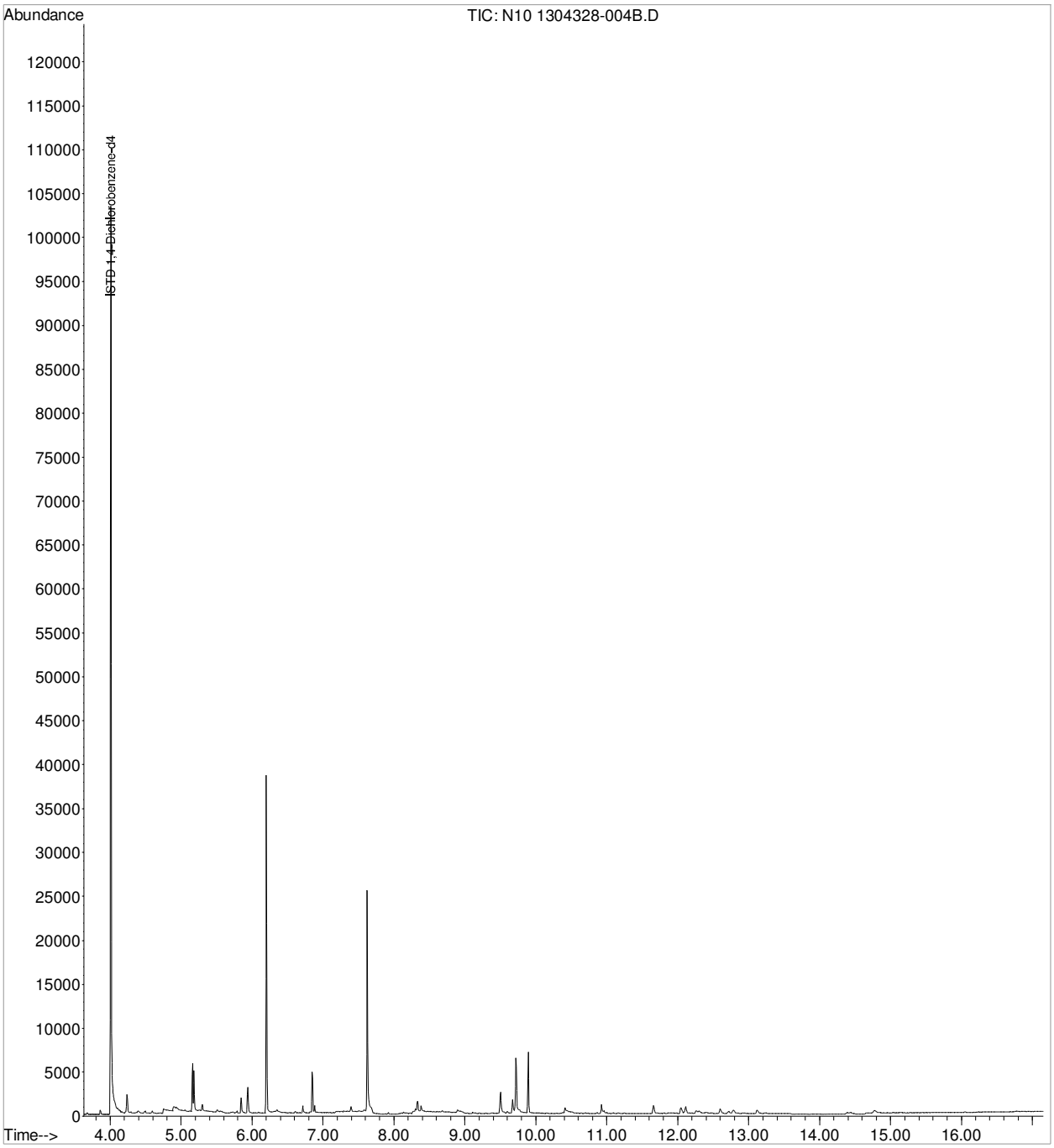
Quant Time: Apr 15 06:27:44 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N10 1304328-004B.D
Acq On : 12 Apr 2013 3:01 pm
Operator : ALICIA HABERLE
Sample : 1304328-004B
Misc : SAMP
ALS Vial : 18 Sample Multiplier: 1

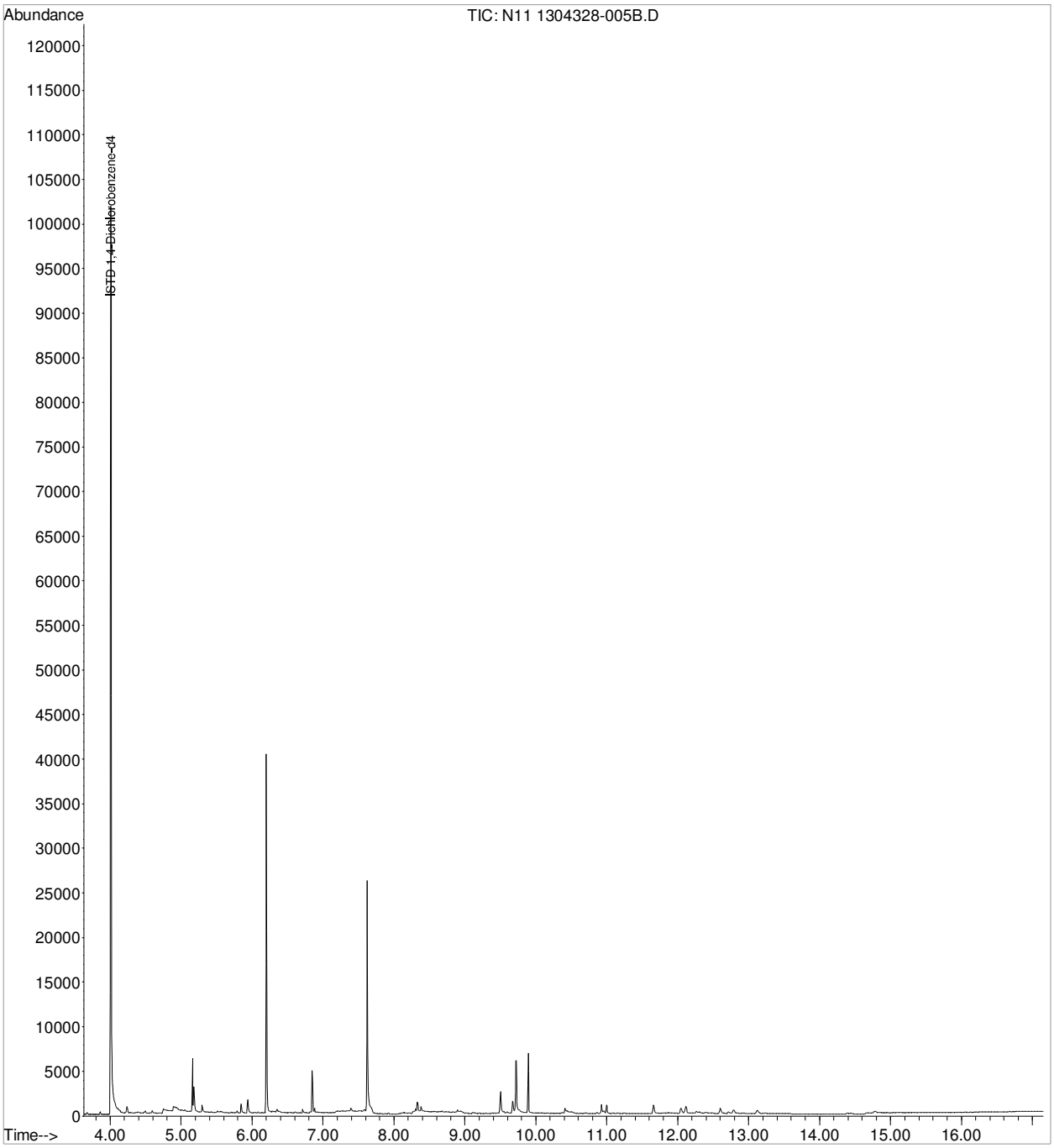
Quant Time: Apr 15 06:28:09 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N11 1304328-005B.D
Acq On : 12 Apr 2013 3:27 pm
Operator : ALICIA HABERLE
Sample : 1304328-005B
Misc : SAMP
ALS Vial : 19 Sample Multiplier: 1

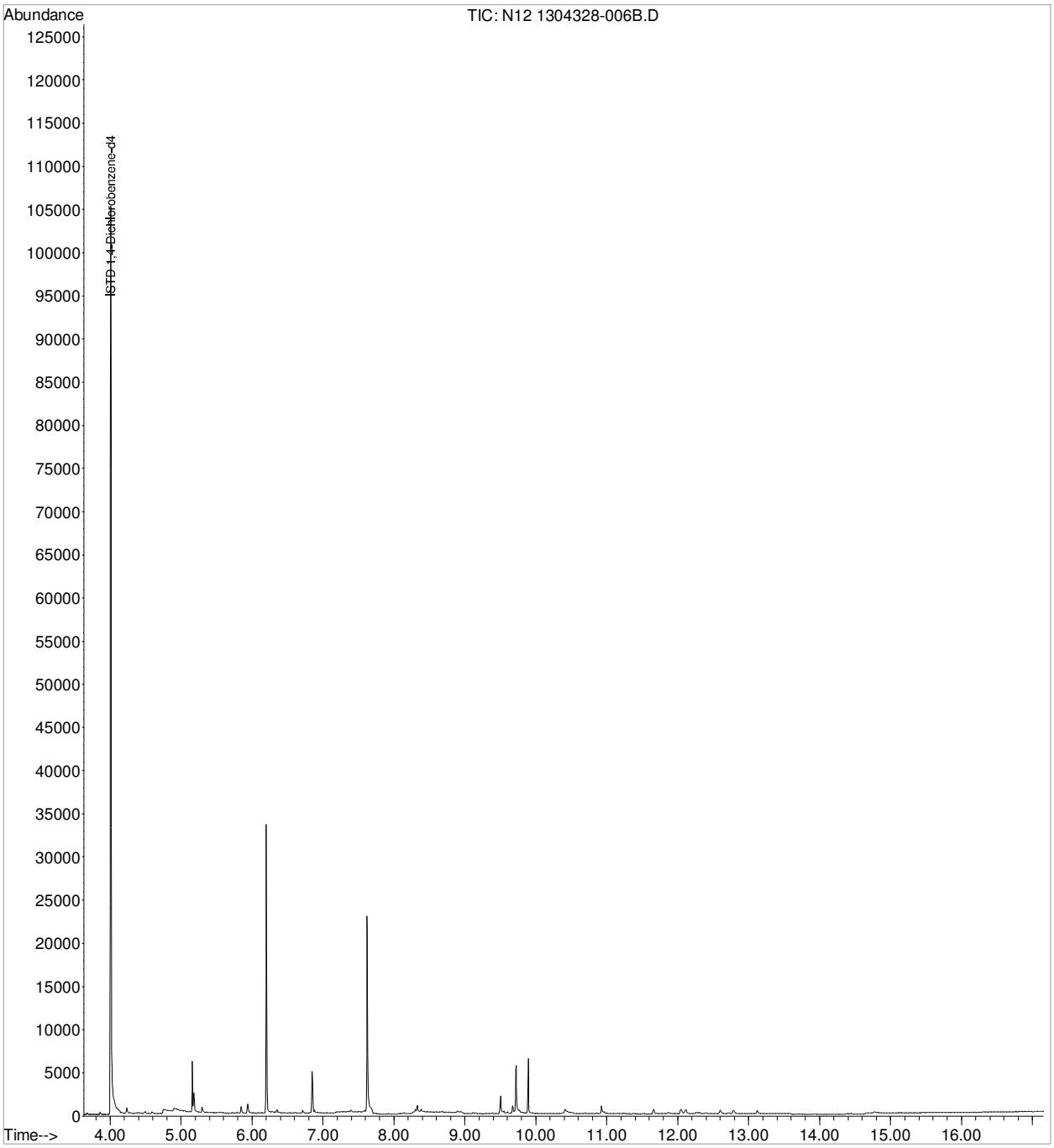
Quant Time: Apr 15 06:28:33 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N12 1304328-006B.D
Acq On : 12 Apr 2013 3:54 pm
Operator : ALICIA HABERLE
Sample : 1304328-006B
Misc : SAMP
ALS Vial : 20 Sample Multiplier: 1

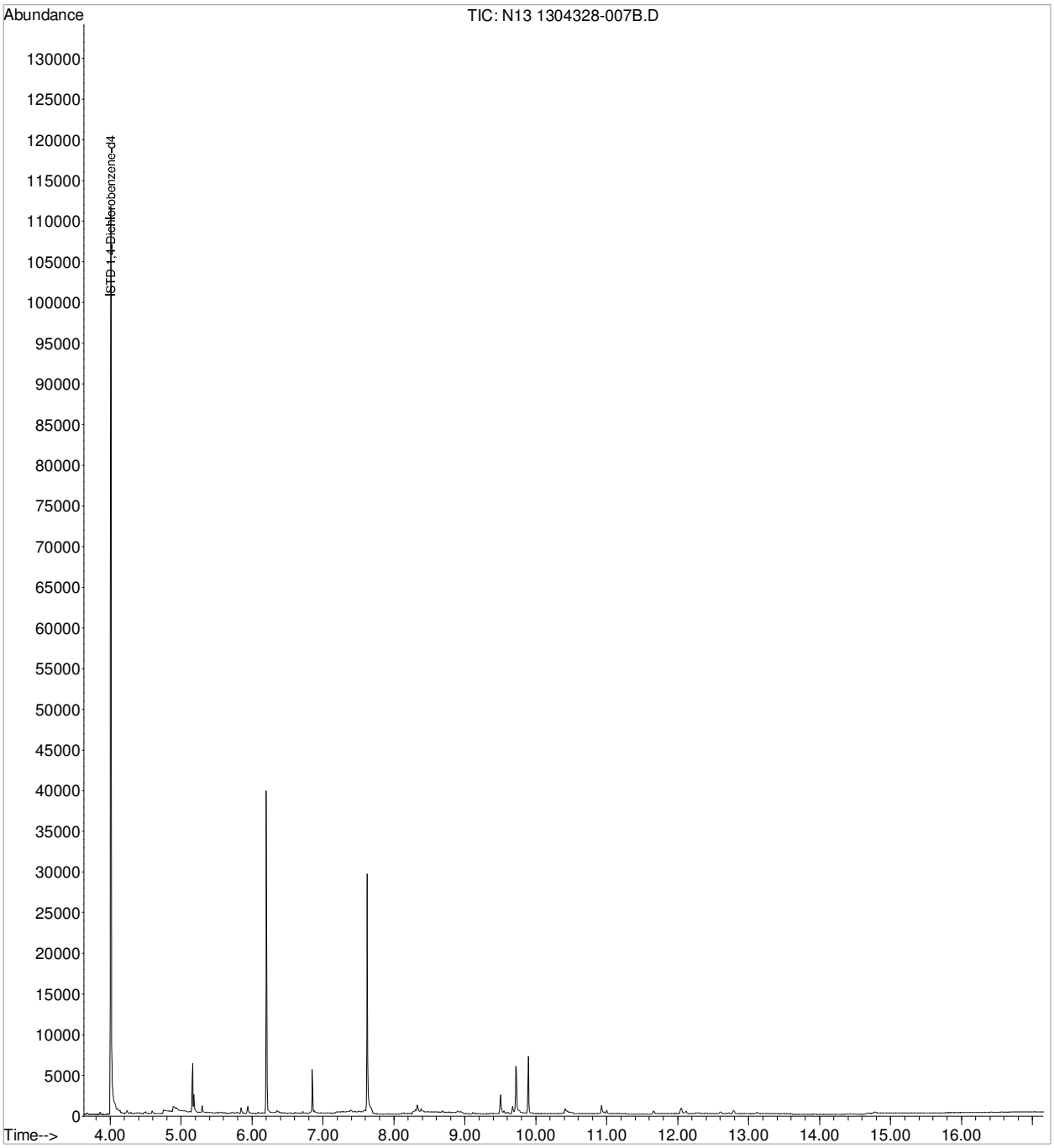
Quant Time: Apr 15 06:28:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N13 1304328-007B.D
Acq On : 12 Apr 2013 4:20 pm
Operator : ALICIA HABERLE
Sample : 1304328-007B
Misc : SAMP
ALS Vial : 21 Sample Multiplier: 1

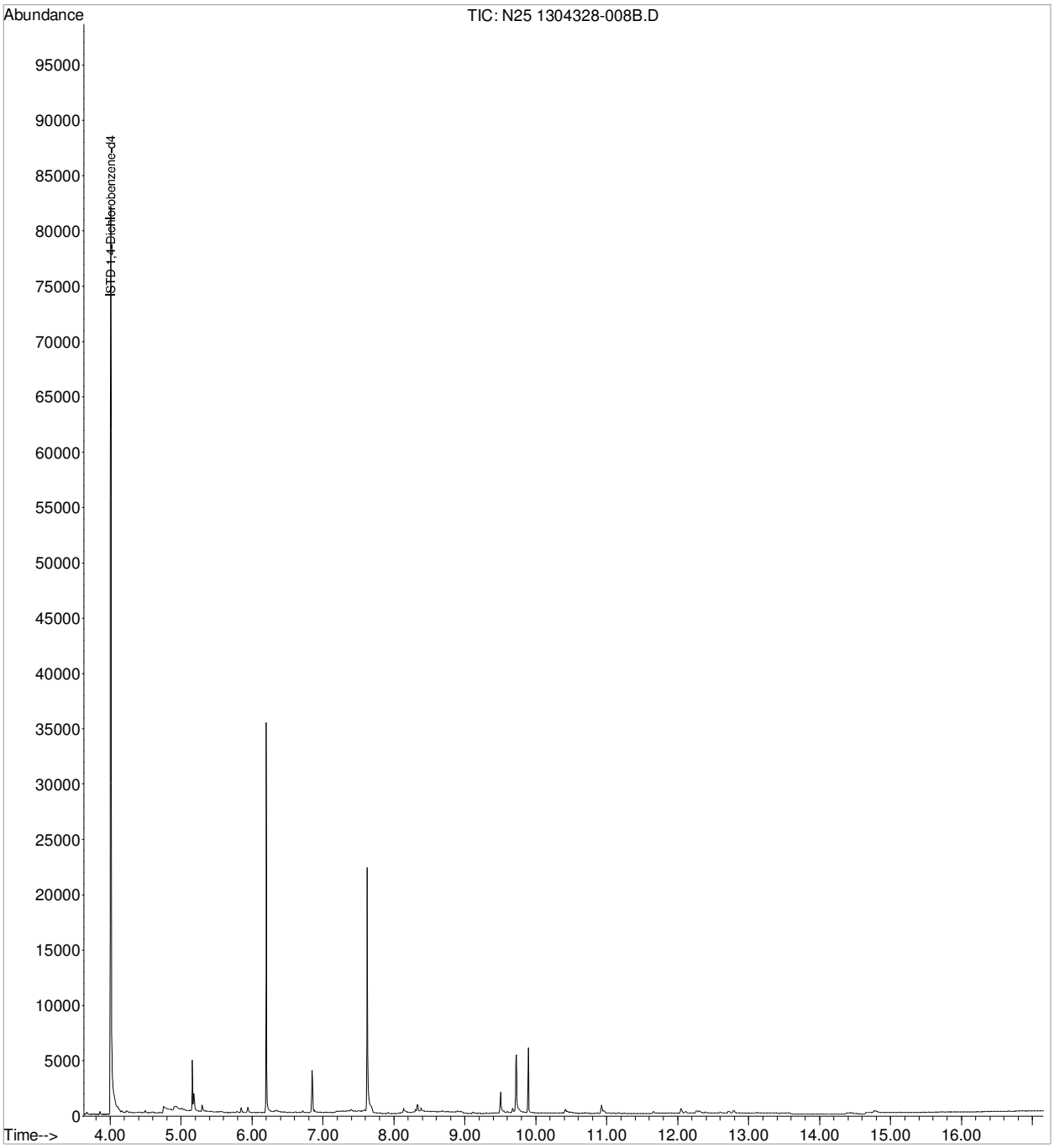
Quant Time: Apr 15 06:29:16 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N25 1304328-008B.D
Acq On : 12 Apr 2013 9:40 pm
Operator : ALICIA HABERLE
Sample : 1304328-008B
Misc : SAMP
ALS Vial : 5 Sample Multiplier: 1

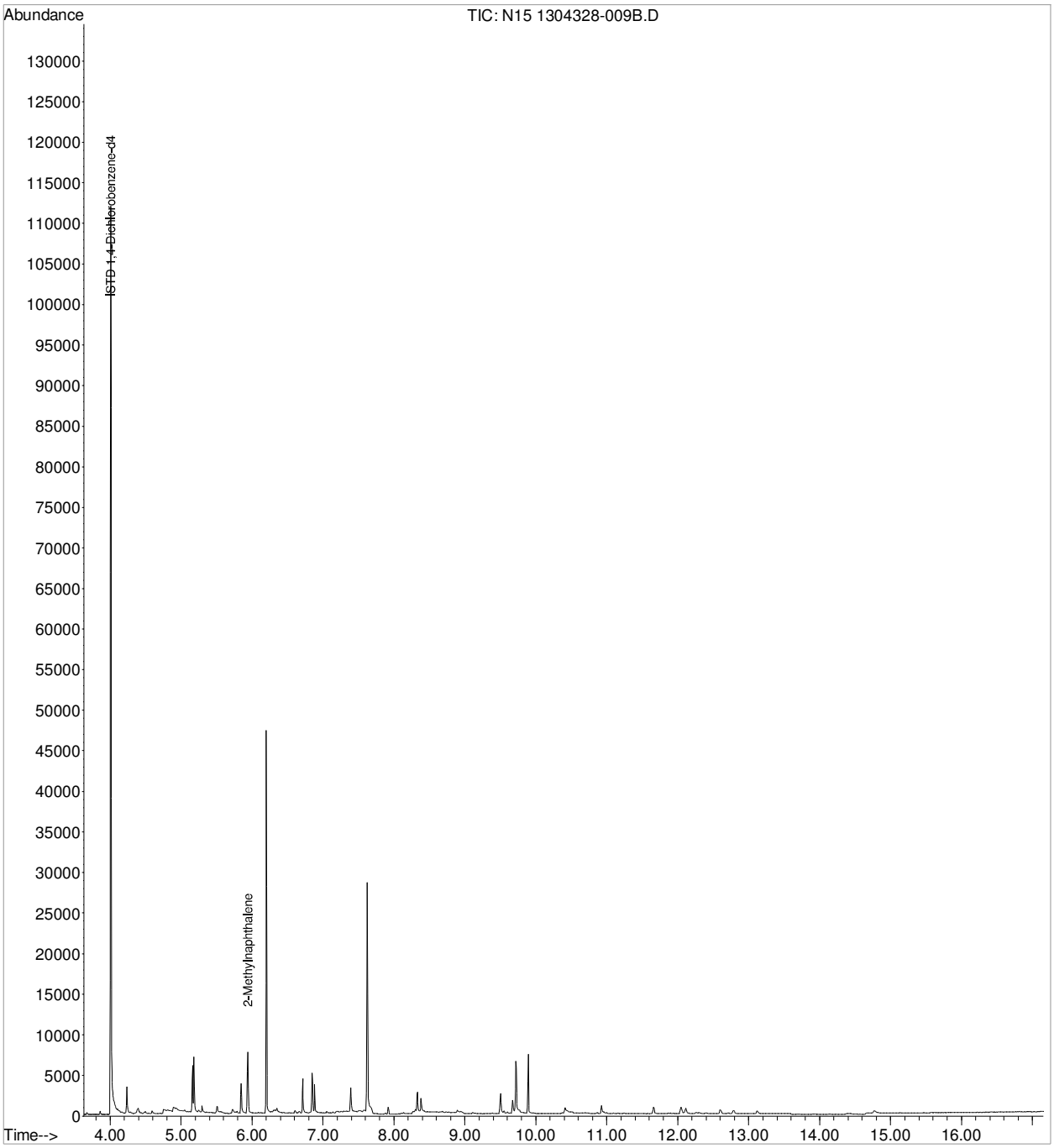
Quant Time: Apr 15 06:41:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N15 1304328-009B.D
Acq On : 12 Apr 2013 5:13 pm
Operator : ALICIA HABERLE
Sample : 1304328-009B
Misc : SAMP
ALS Vial : 23 Sample Multiplier: 1

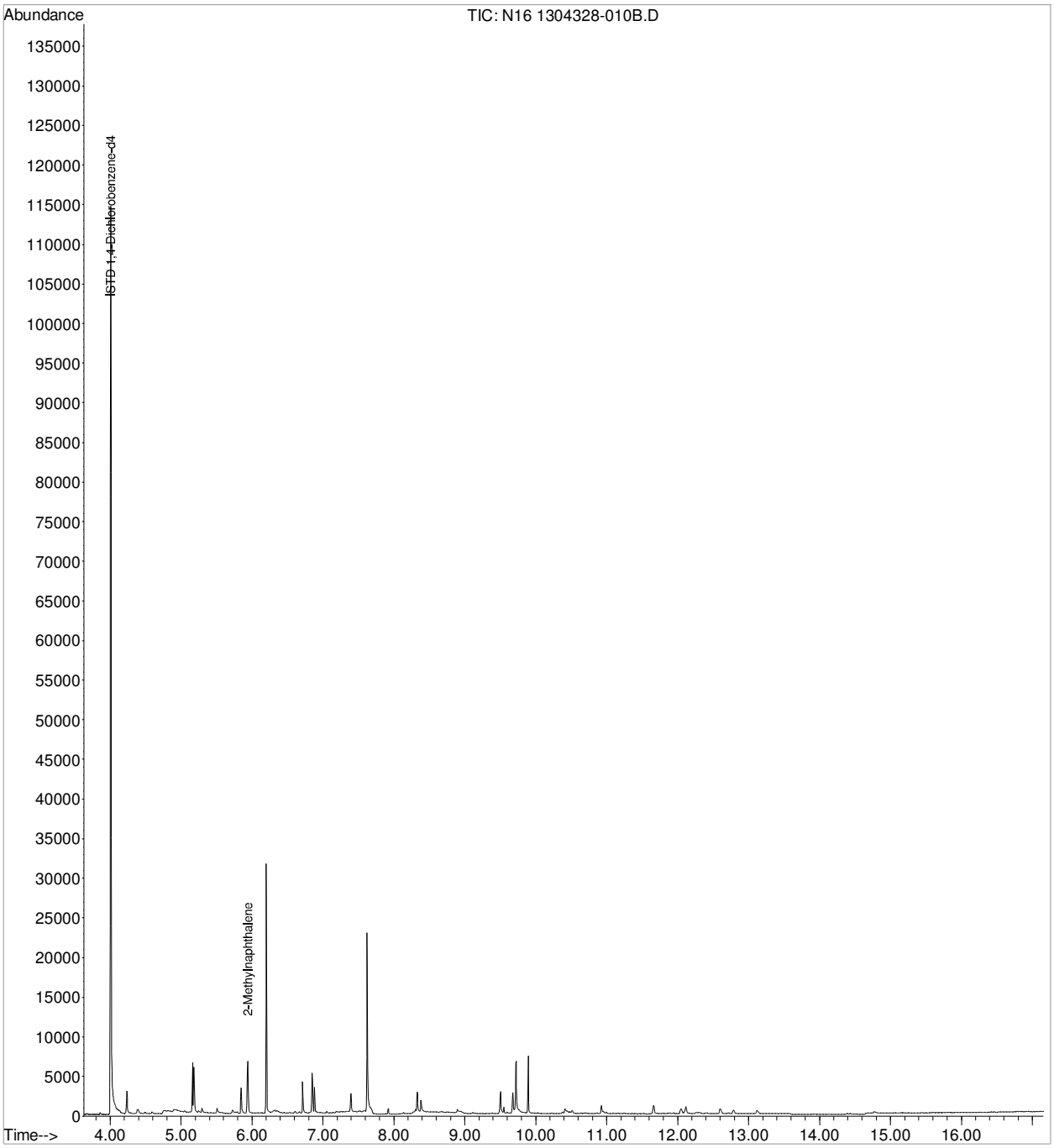
Quant Time: Apr 15 06:29:44 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N16 1304328-010B.D
Acq On : 12 Apr 2013 5:40 pm
Operator : ALICIA HABERLE
Sample : 1304328-010B
Misc : SAMP
ALS Vial : 24 Sample Multiplier: 1

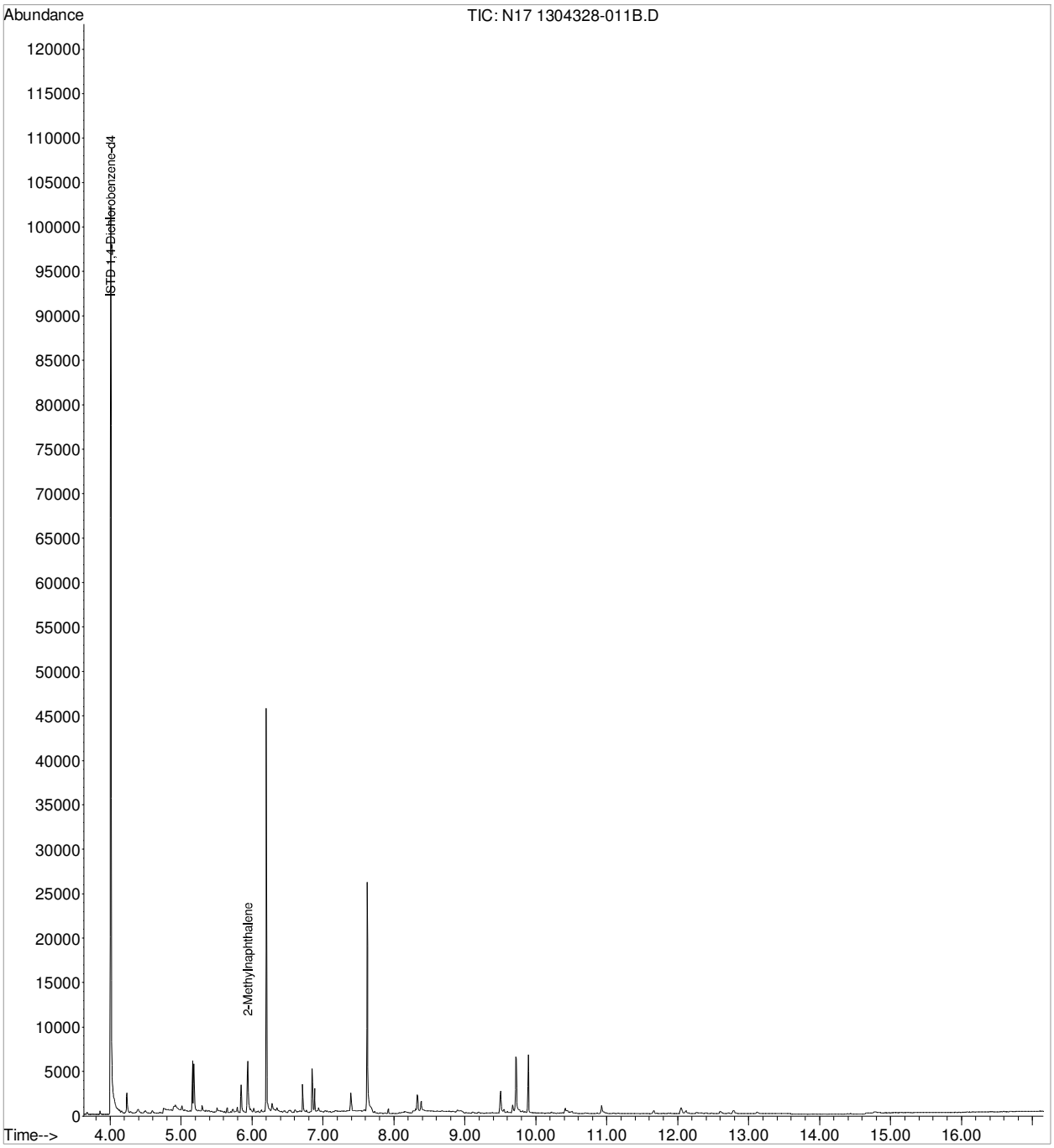
Quant Time: Apr 15 06:30:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N17 1304328-011B.D
Acq On : 12 Apr 2013 6:07 pm
Operator : ALICIA HABERLE
Sample : 1304328-011B
Misc : SAMP
ALS Vial : 25 Sample Multiplier: 1

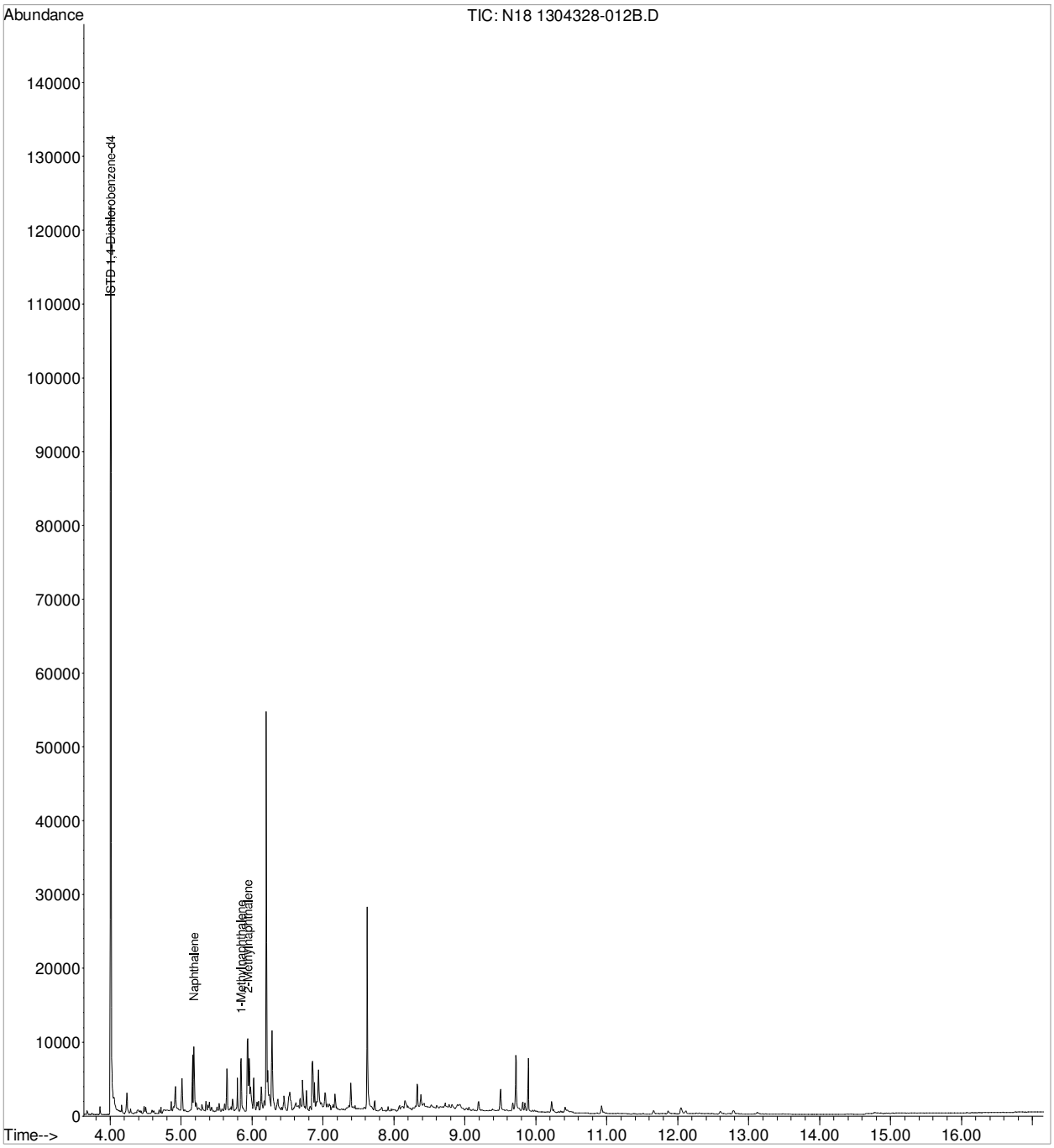
Quant Time: Apr 15 06:30:31 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N18 1304328-012B.D
Acq On : 12 Apr 2013 6:33 pm
Operator : ALICIA HABERLE
Sample : 1304328-012B
Misc : SAMP
ALS Vial : 26 Sample Multiplier: 1

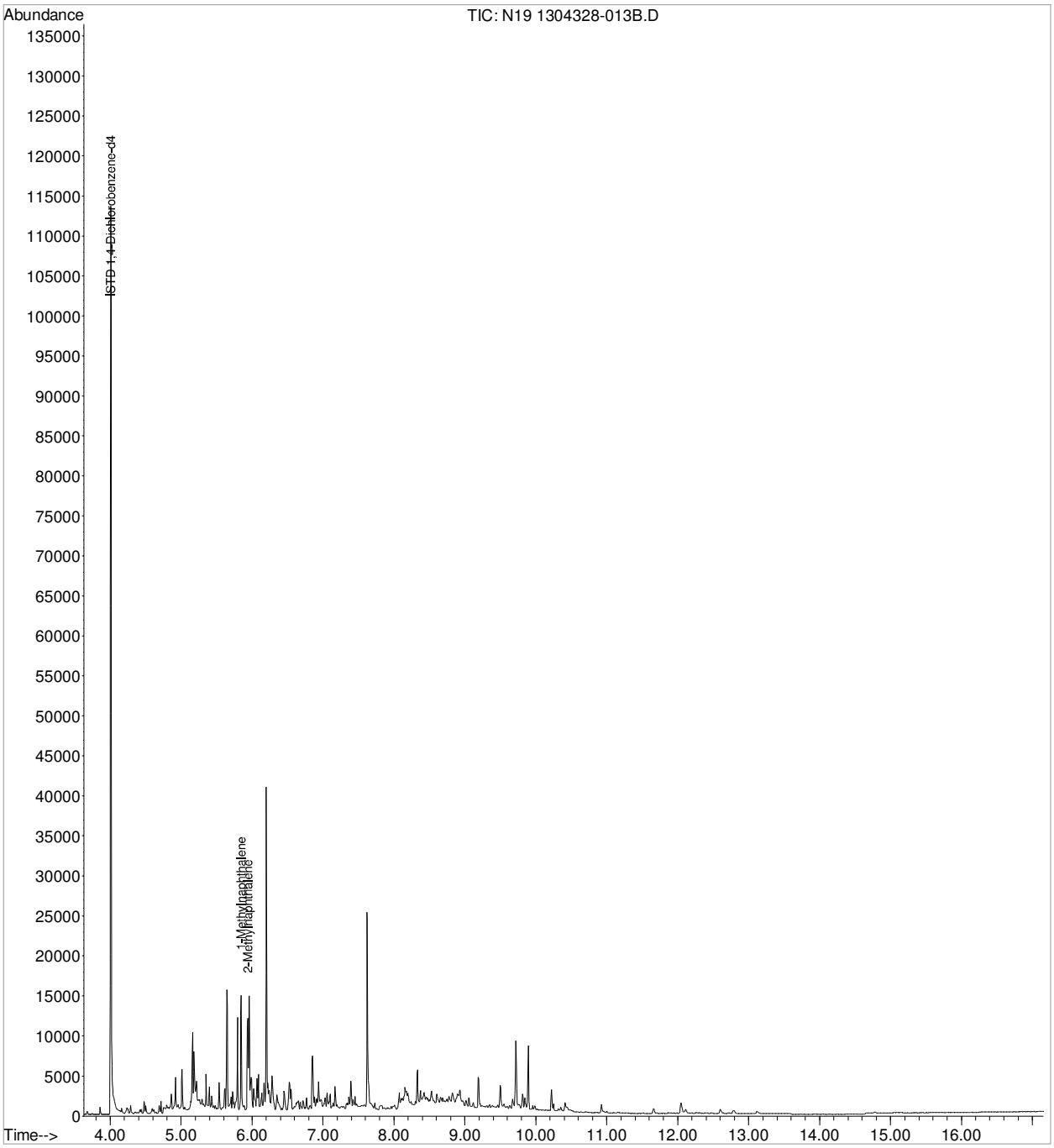
Quant Time: Apr 15 06:31:02 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N19 1304328-013B.D
Acq On : 12 Apr 2013 7:00 pm
Operator : ALICIA HABERLE
Sample : 1304328-013B
Misc : SAMP
ALS Vial : 27 Sample Multiplier: 1

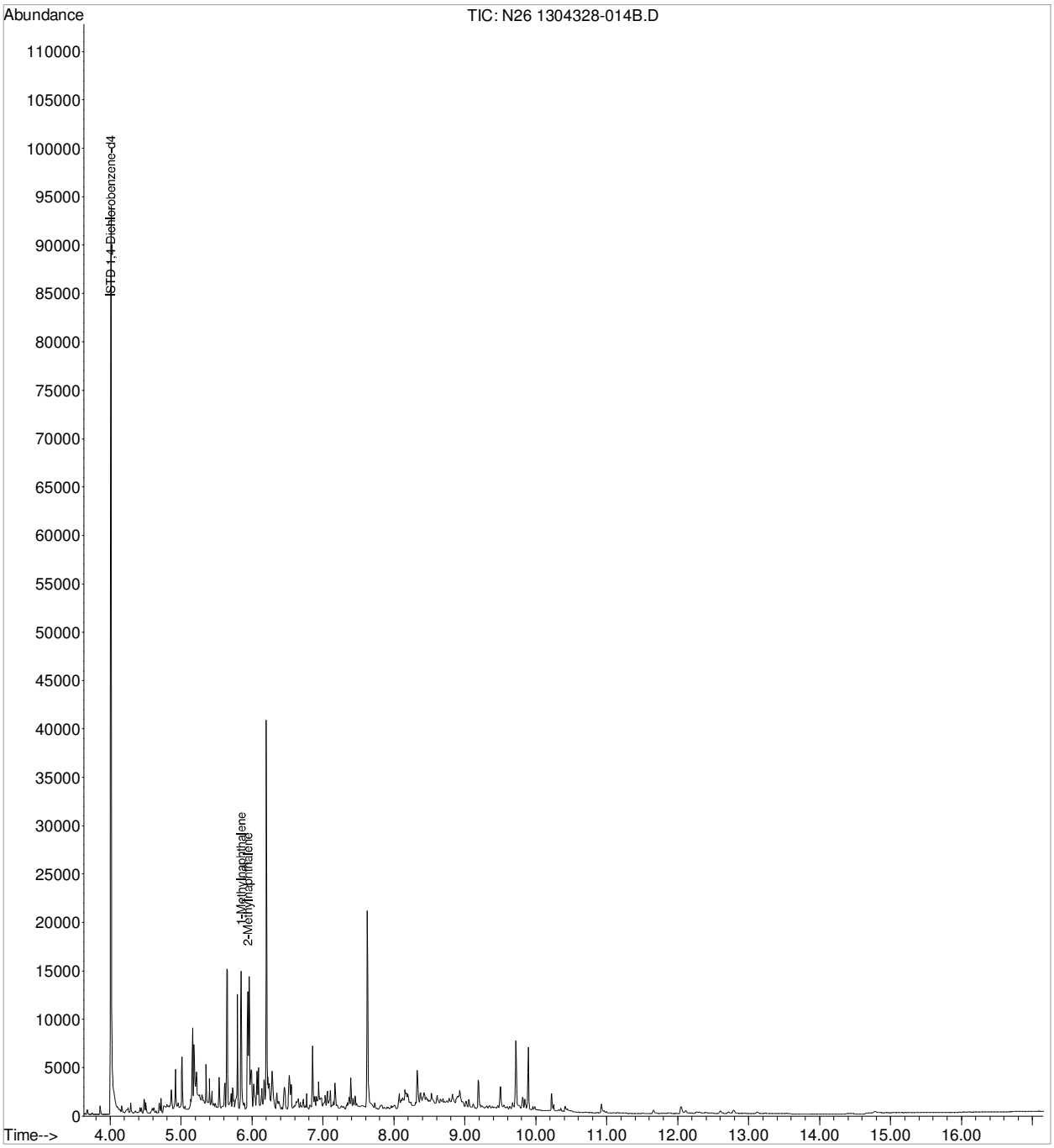
Quant Time: Apr 15 06:31:31 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N26 1304328-014B.D
Acq On : 12 Apr 2013 10:07 pm
Operator : ALICIA HABERLE
Sample : 1304328-014B
Misc : SAMP
ALS Vial : 6 Sample Multiplier: 1

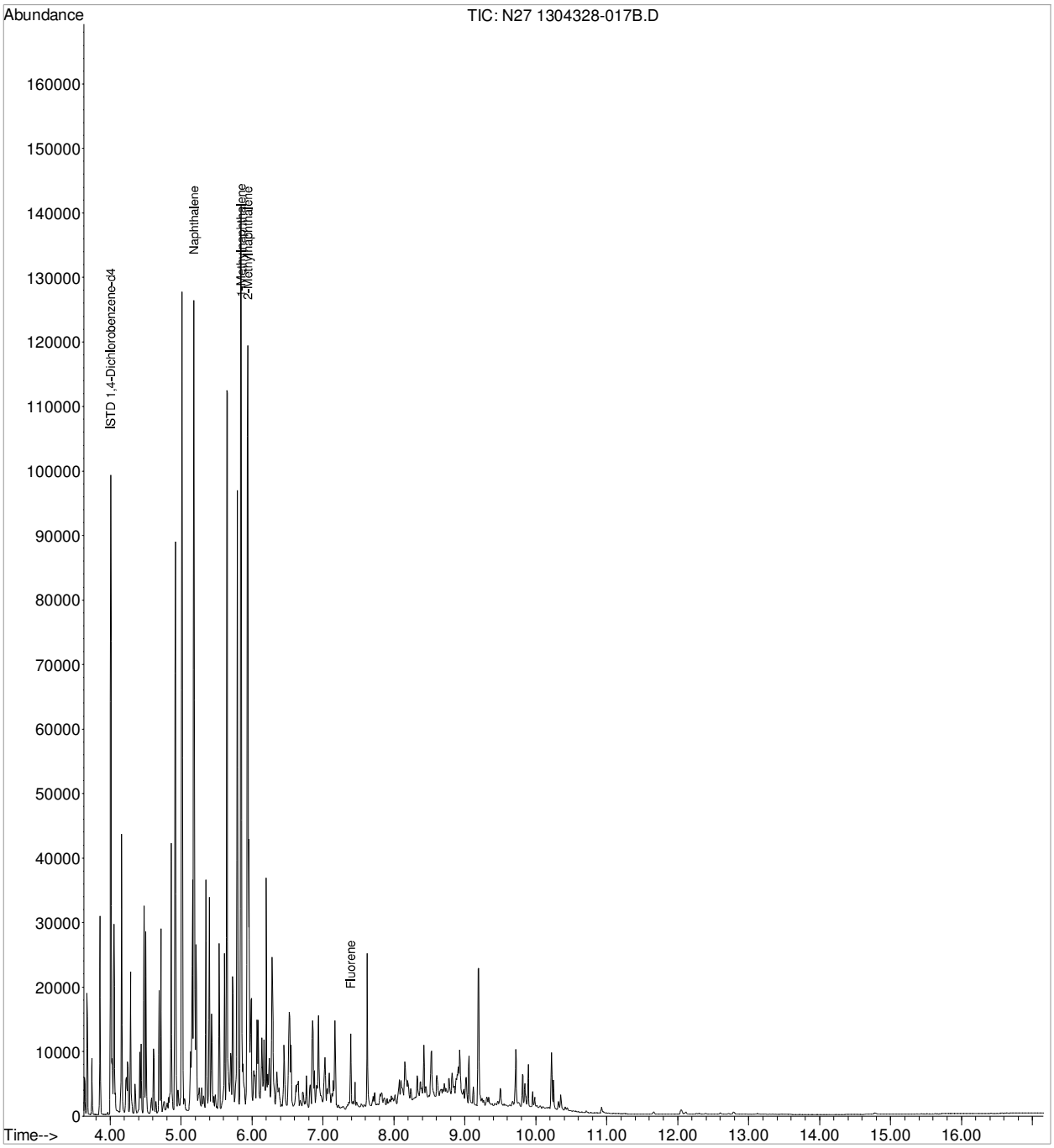
Quant Time: Apr 15 06:41:54 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N27 1304328-017B.D
Acq On : 12 Apr 2013 10:33 pm
Operator : ALICIA HABERLE
Sample : 1304328-017B
Misc : SAMP
ALS Vial : 7 Sample Multiplier: 1

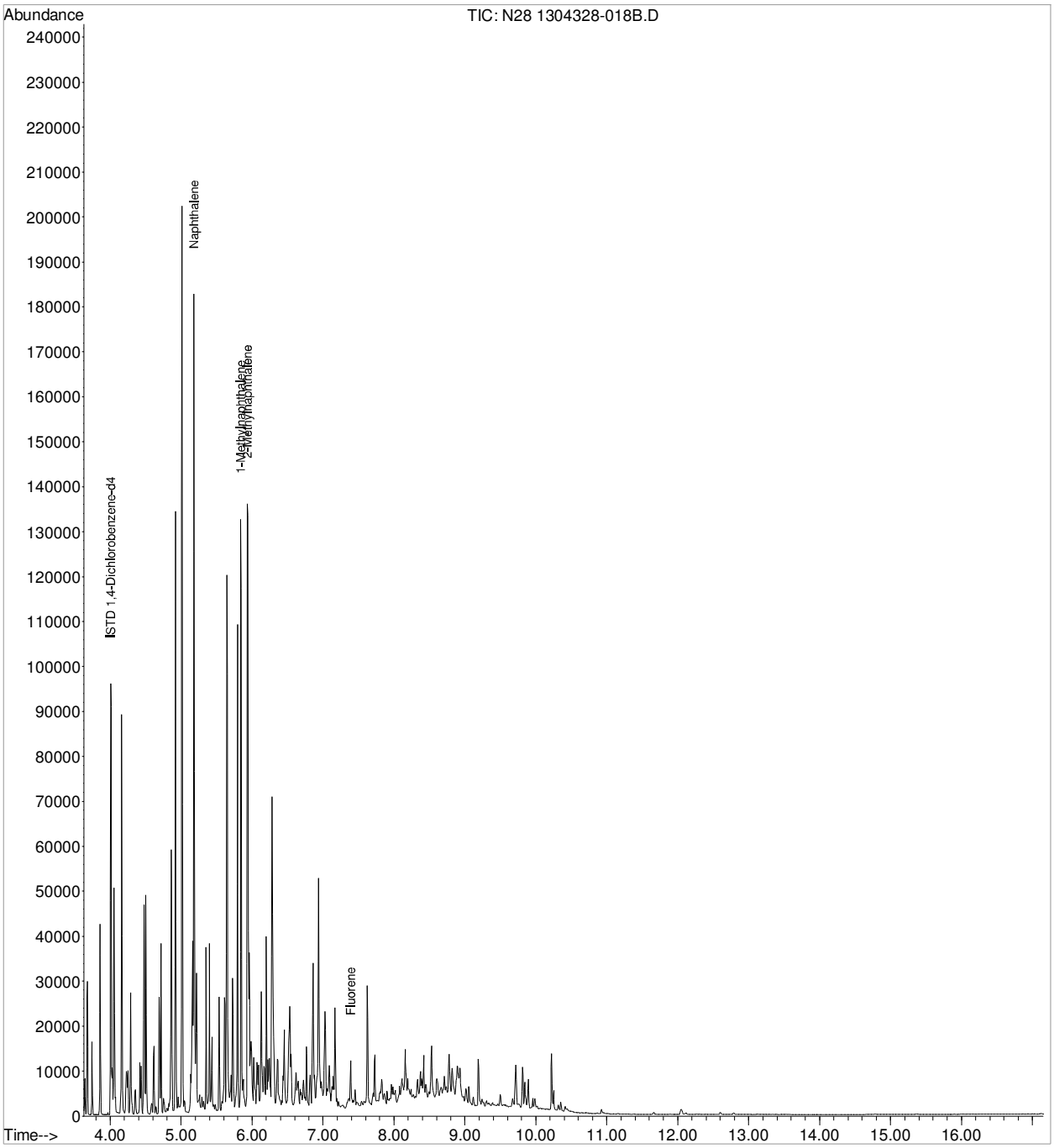
Quant Time: Apr 15 06:42:32 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N28 1304328-018B.D
Acq On : 12 Apr 2013 11:00 pm
Operator : ALICIA HABERLE
Sample : 1304328-018B
Misc : SAMP
ALS Vial : 8 Sample Multiplier: 1

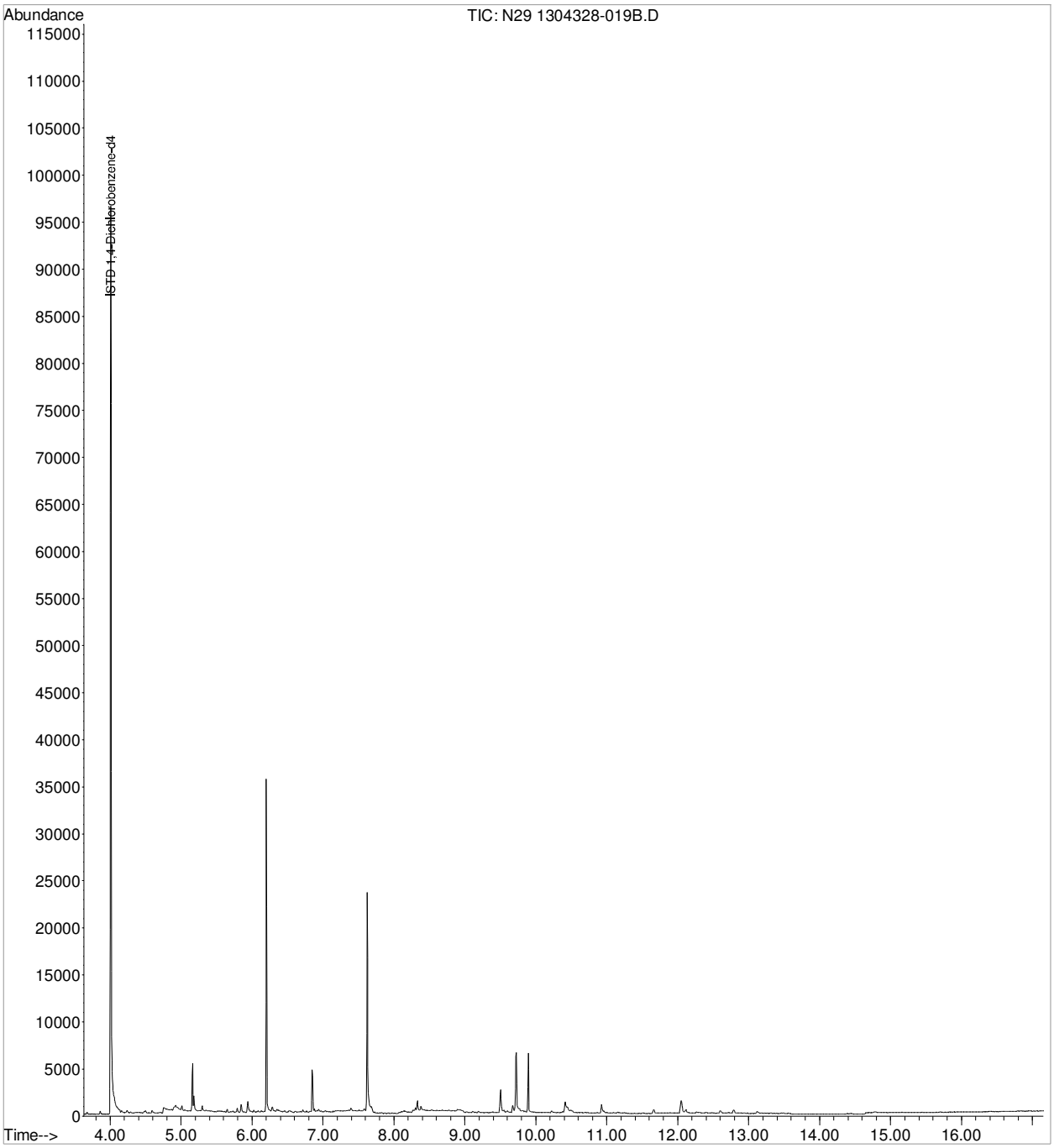
Quant Time: Apr 15 06:43:03 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N29 1304328-019B.D
Acq On : 12 Apr 2013 11:27 pm
Operator : ALICIA HABERLE
Sample : 1304328-019B
Misc : SAMP
ALS Vial : 9 Sample Multiplier: 1

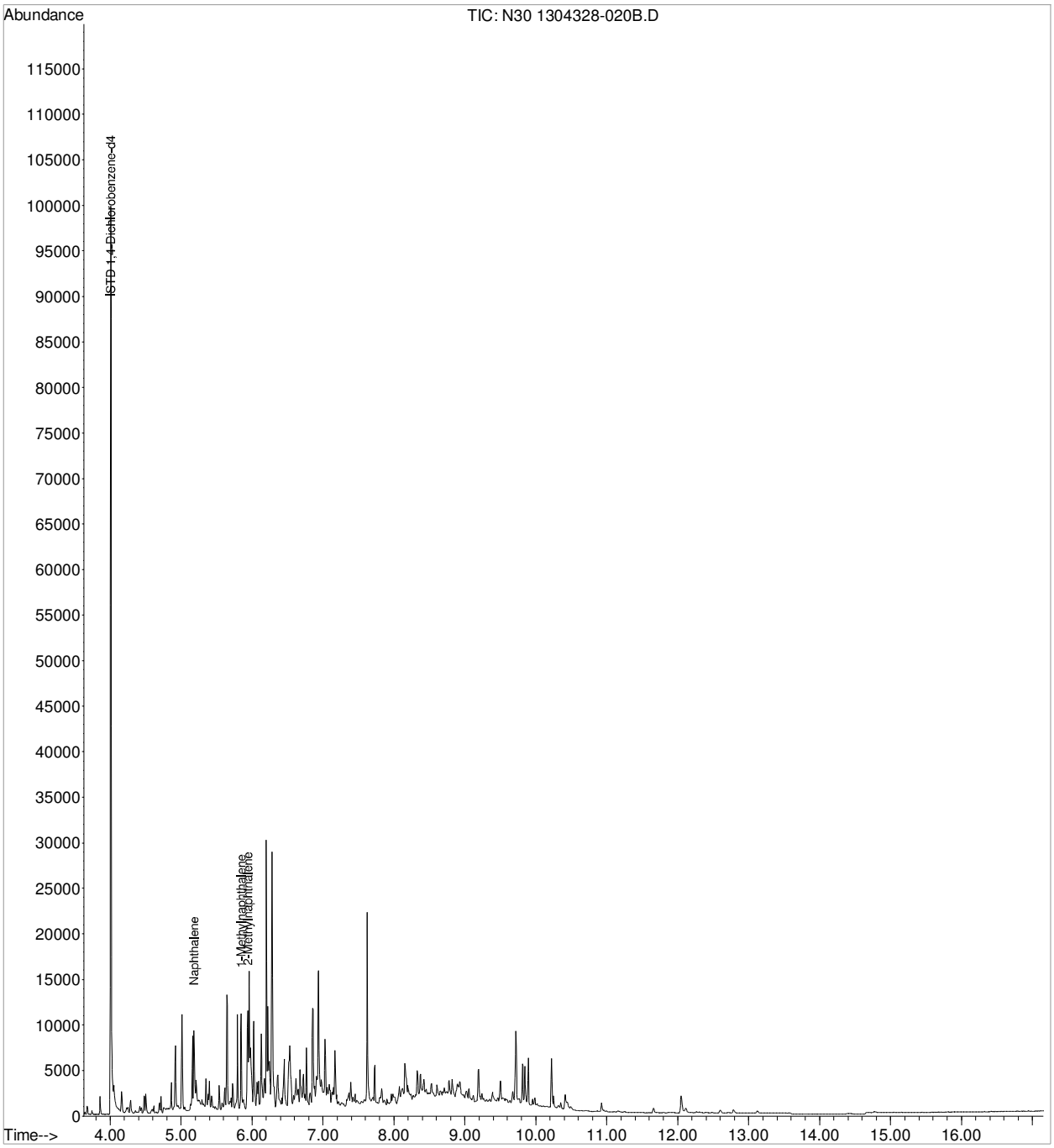
Quant Time: Apr 15 06:43:24 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N30 1304328-020B.D
Acq On : 12 Apr 2013 11:53 pm
Operator : ALICIA HABERLE
Sample : 1304328-020B
Misc : SAMP
ALS Vial : 10 Sample Multiplier: 1

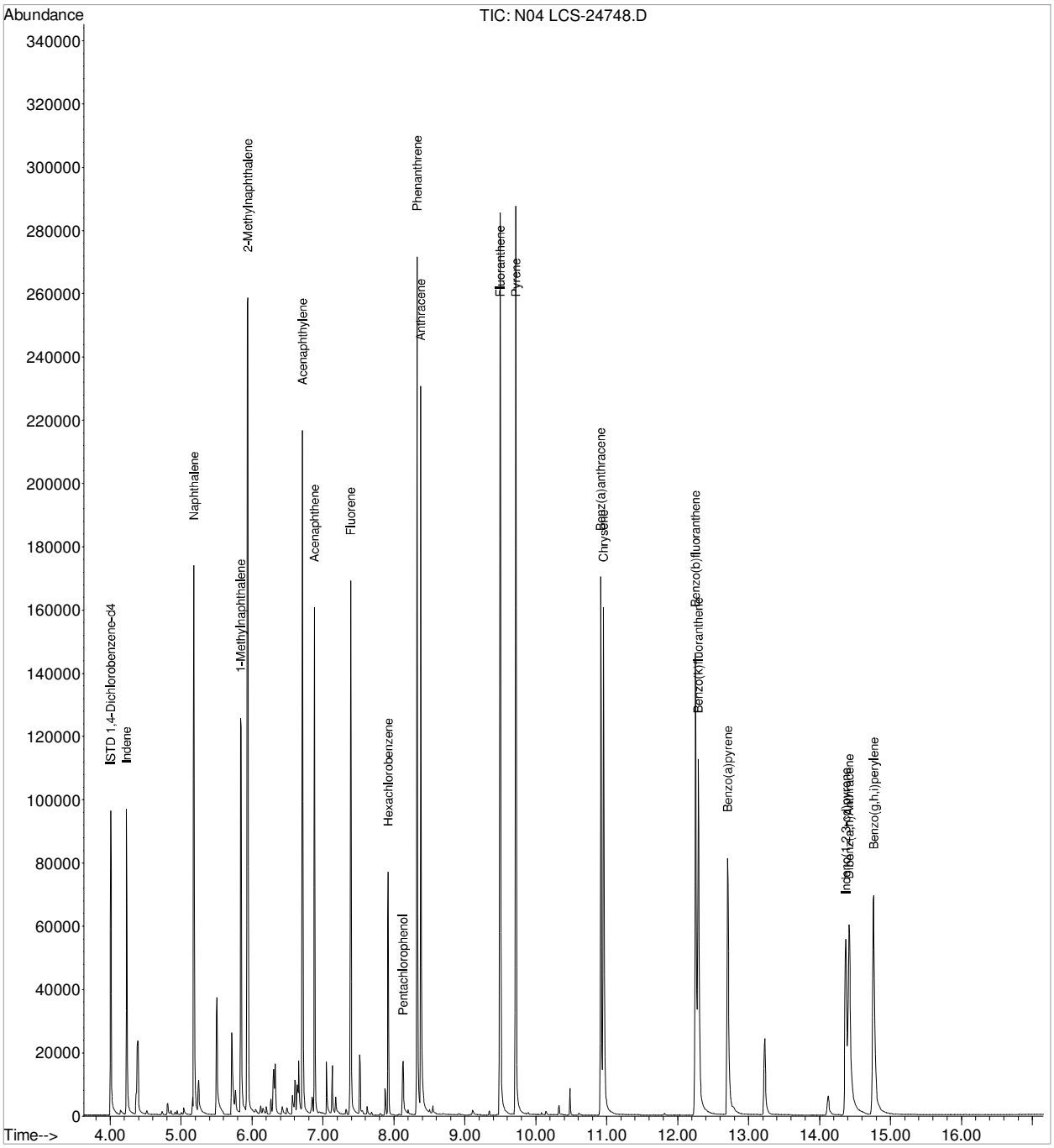
Quant Time: Apr 15 06:44:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N04 LCS-24748.D
Acq On : 12 Apr 2013 12:22 pm
Operator : ALICIA HABERLE
Sample : LCS-24748
Misc : LCS 20X
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 12 20:12:13 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration

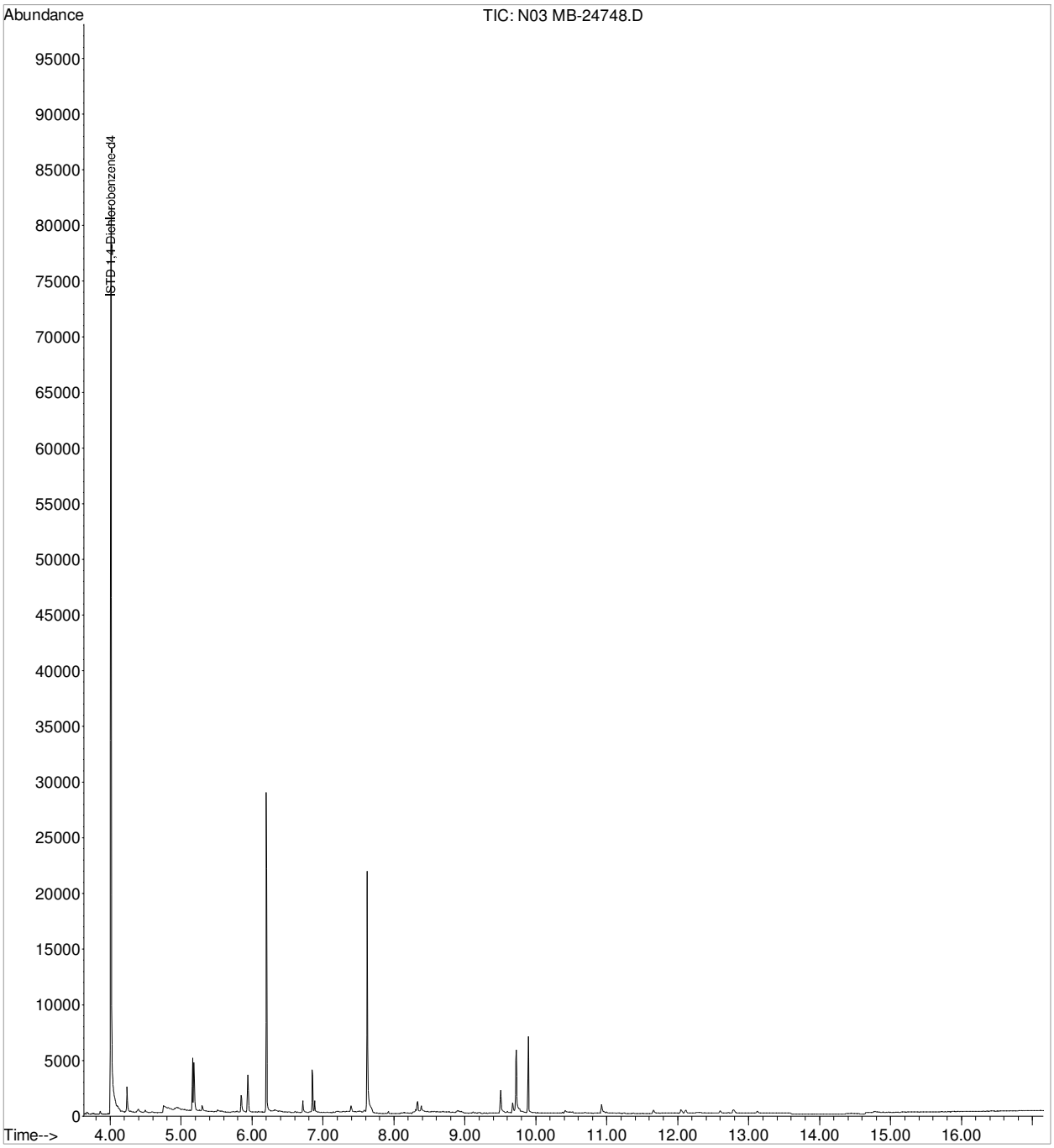


PAH GWM QUA...03-20-2013.M Mon Apr 15 07:21:05 2013 Page: 2

Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N03 MB-24748.D
Acq On : 12 Apr 2013 11:55 am
Operator : ALICIA HABERLE
Sample : MB-24748
Misc : MBLK
ALS Vial : 11 Sample Multiplier: 1

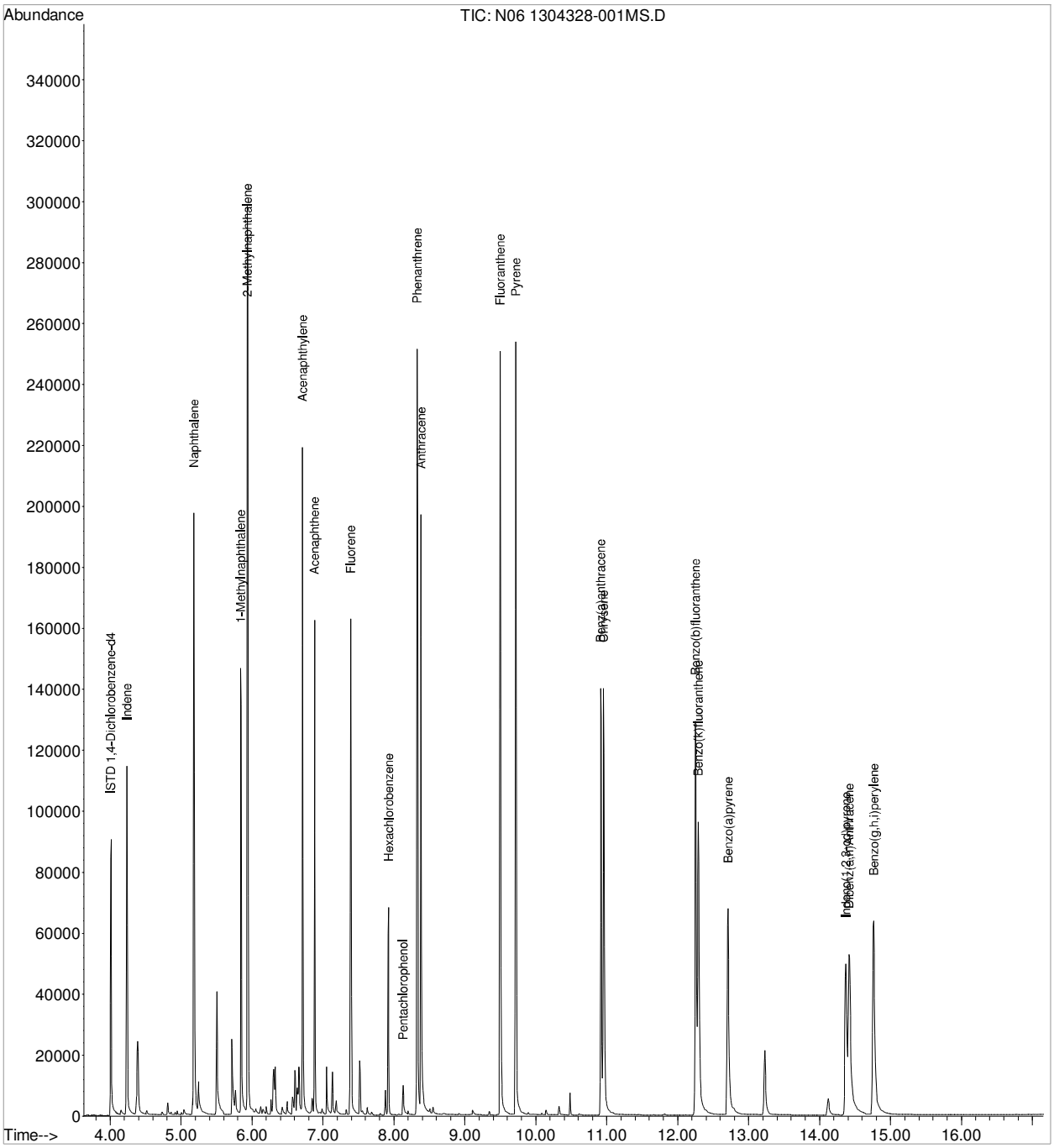
Quant Time: Apr 15 06:20:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N06 1304328-001MS.D
Acq On : 12 Apr 2013 1:15 pm
Operator : ALICIA HABERLE
Sample : 1304328-001BMS
Misc : MS 20X
ALS Vial : 14 Sample Multiplier: 1

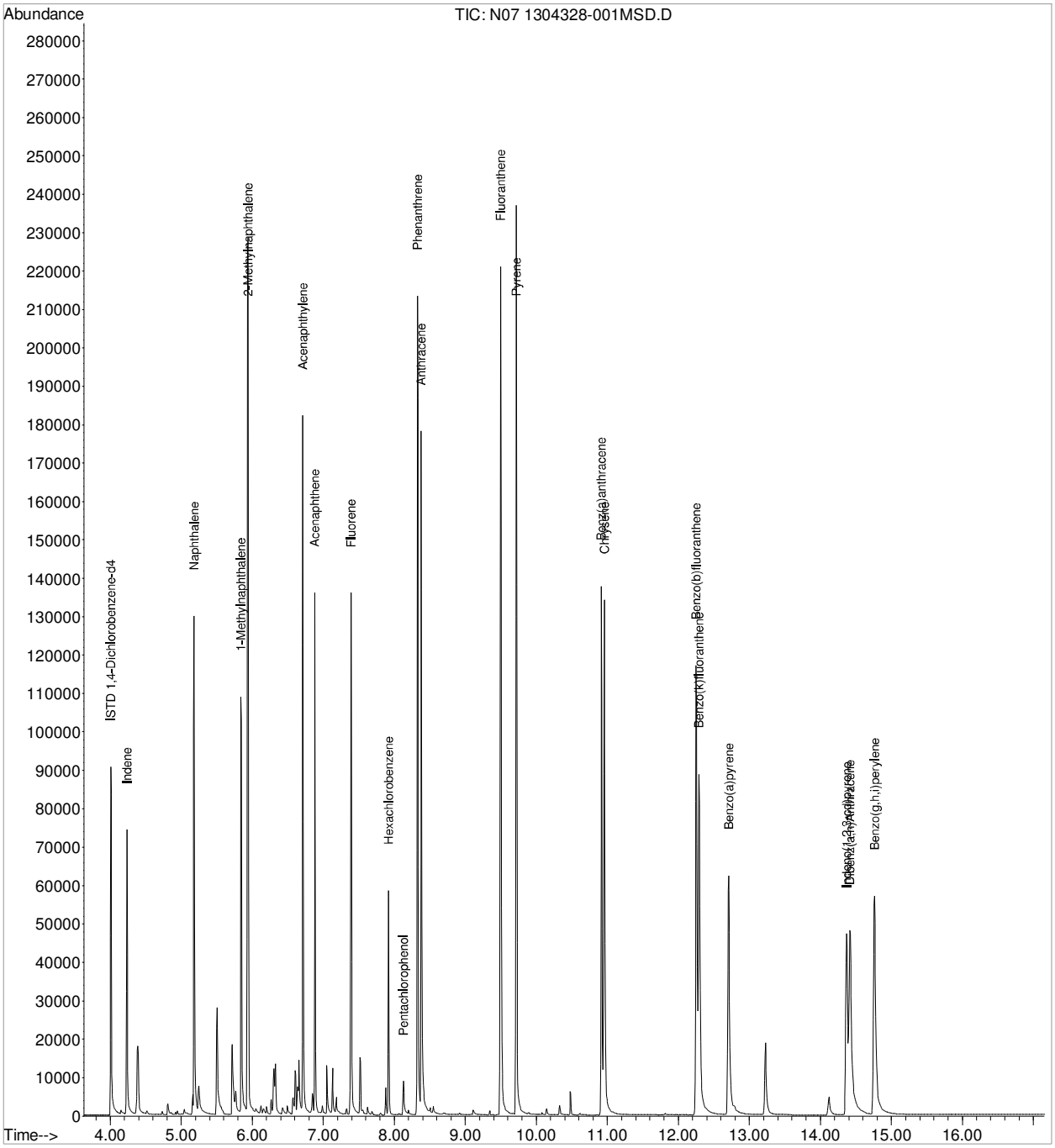
Quant Time: Apr 12 20:12:17 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : Z:\MSDCHEM\1\DATA\APR 13\12APR13-A\
Data File : N07 1304328-001MSD.D
Acq On : 12 Apr 2013 1:41 pm
Operator : ALICIA HABERLE
Sample : 1304328-001BMSD
Misc : MSD 20X
ALS Vial : 15 Sample Multiplier: 1

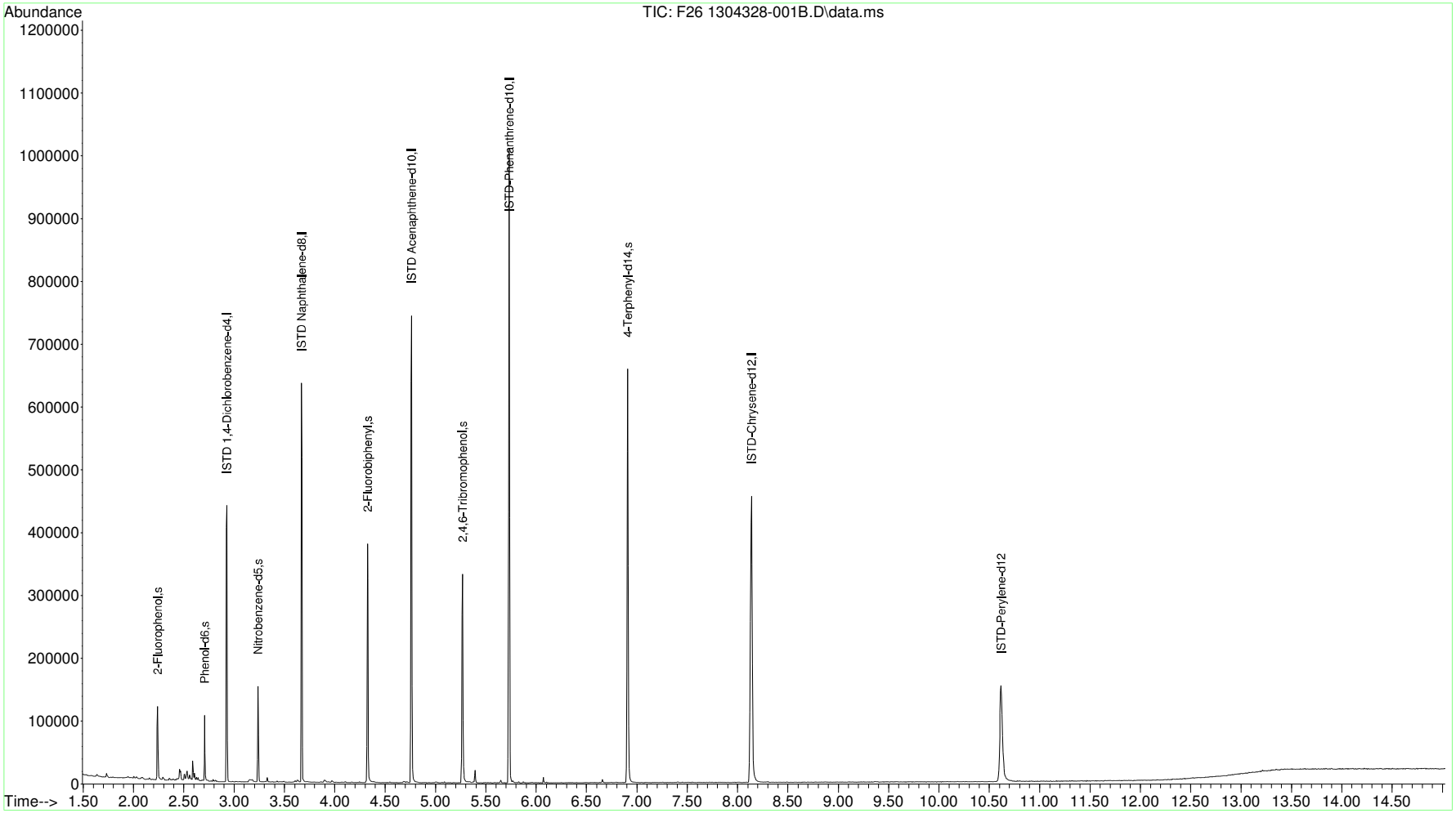
Quant Time: Apr 12 20:12:19 2013
Quant Method : C:\MSDCHEM\1\METHODS\PAH GWM QUANT SIM 03-20-2013.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 08:28:19 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F26 1304328-001B.D
Acq On : 12 Apr 2013 5:16 pm
Operator : ALICIA HABERLE
Sample : 1304328-001B
Misc : SAMP
ALS Vial : 72 Sample Multiplier: 1

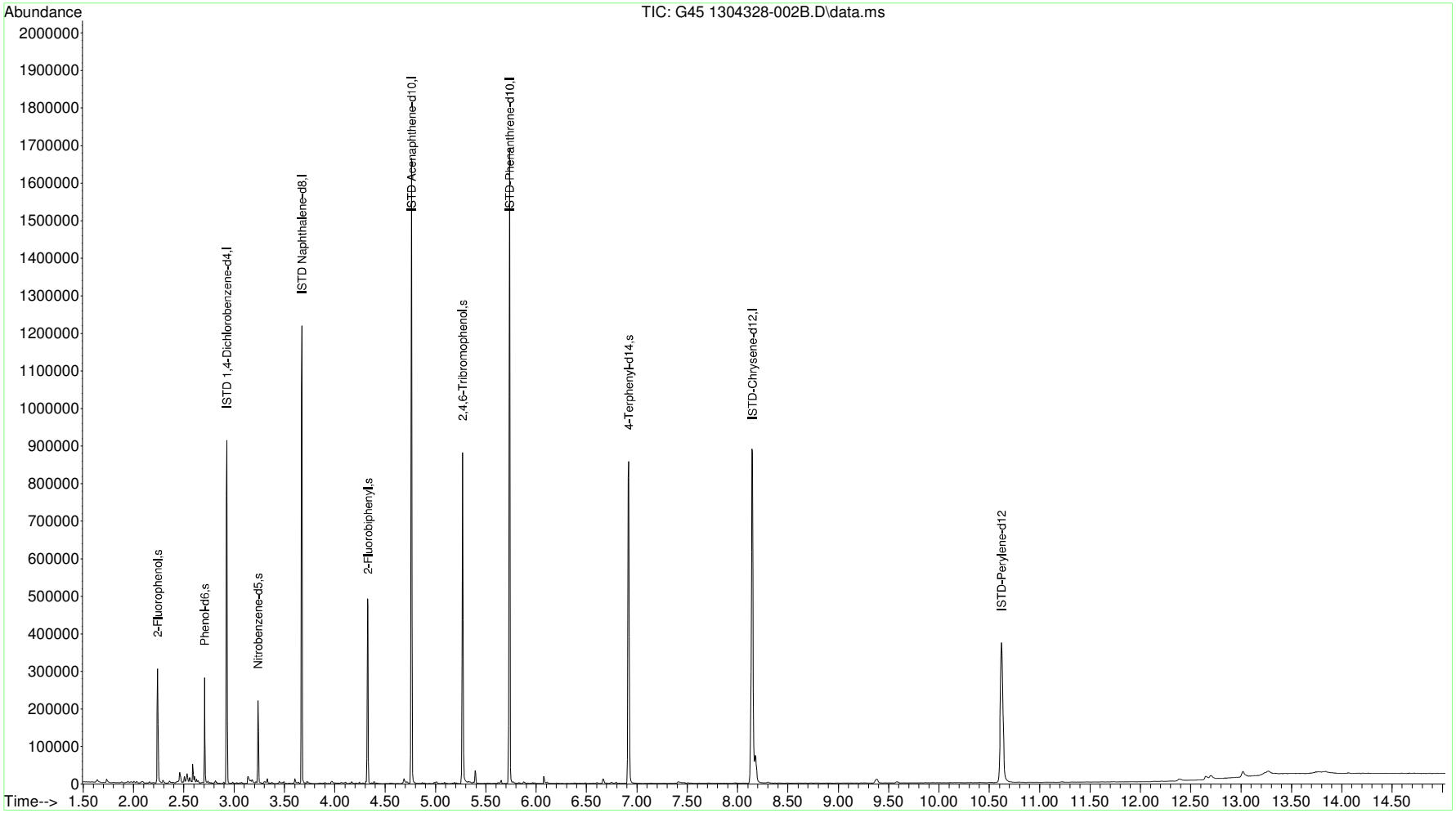
Quant Time: Apr 15 13:01:13 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\11APR 13-A\
Data File : G45 1304328-002B.D
Acq On : 12 Apr 2013 3:39 am
Operator : ALICIA HABERLE
Sample : 1304328-002B
Misc : SAMP
ALS Vial : 26 Sample Multiplier: 1

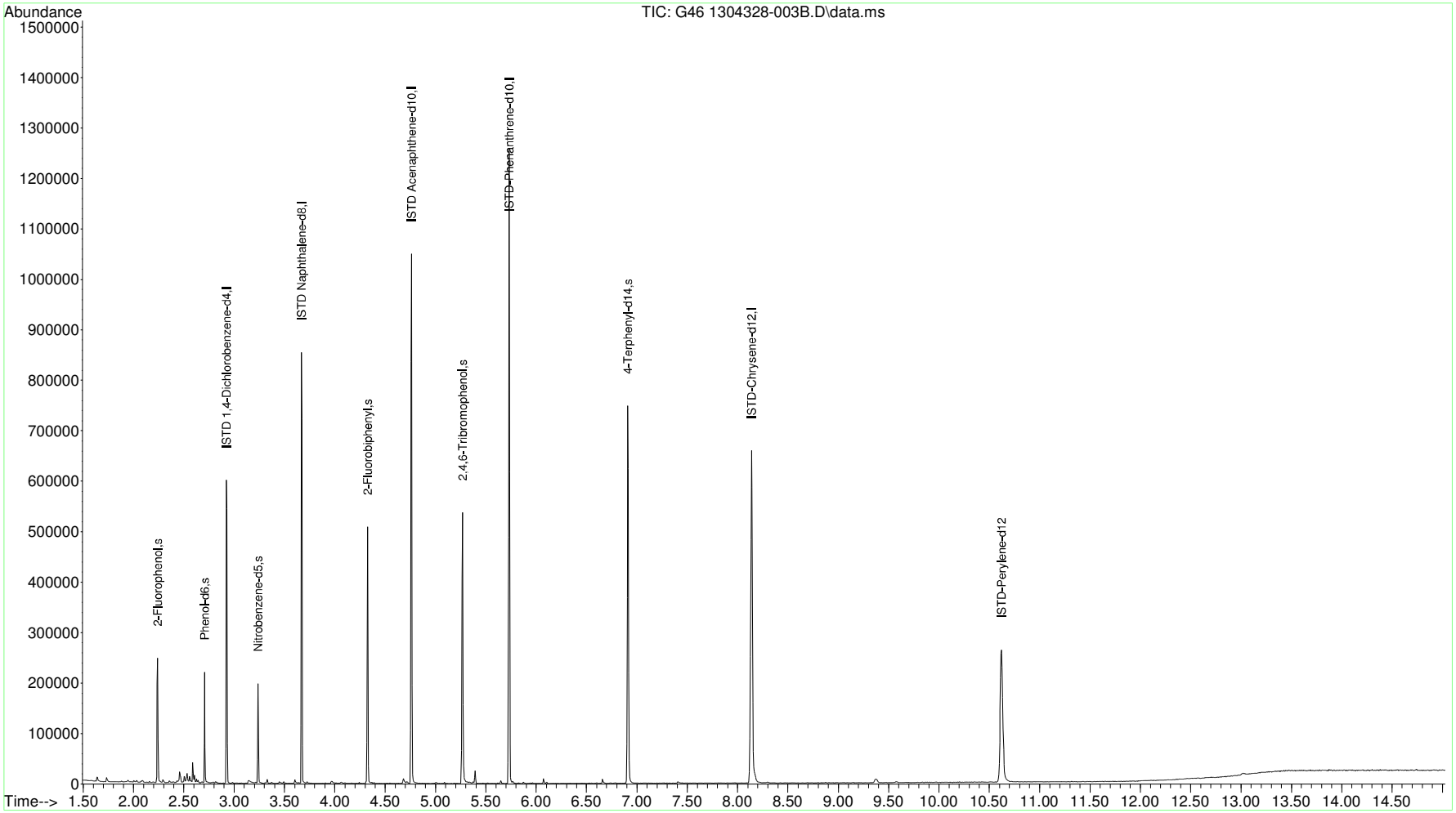
Quant Time: Apr 15 14:55:54 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\11APR 13-A\
Data File : G46 1304328-003B.D
Acq On : 12 Apr 2013 4:03 am
Operator : ALICIA HABERLE
Sample : 1304328-003B
Misc : SAMP
ALS Vial : 27 Sample Multiplier: 1

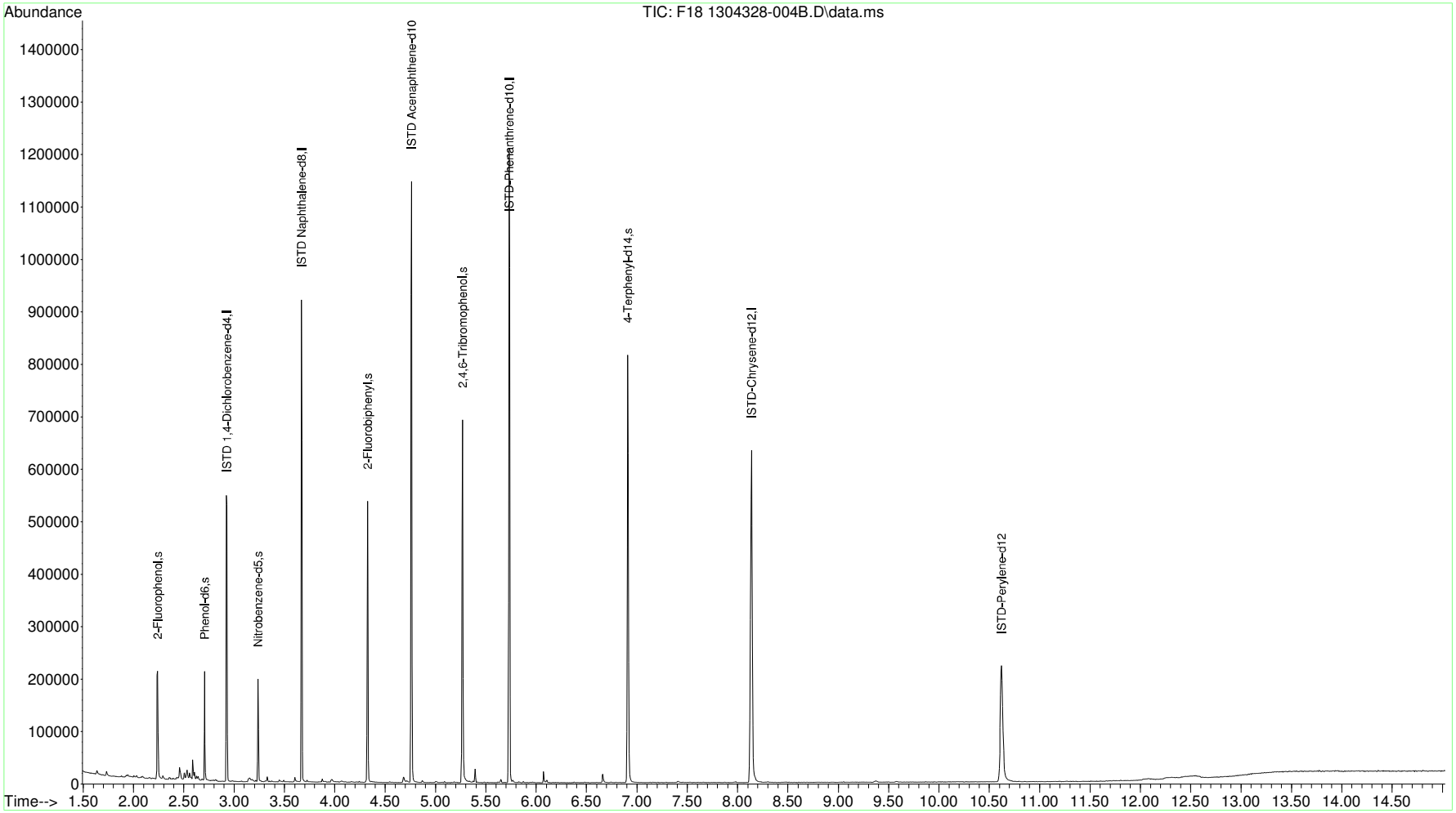
Quant Time: Apr 15 14:57:23 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F18 1304328-004B.D
Acq On : 12 Apr 2013 2:07 pm
Operator : ALICIA HABERLE
Sample : 1304328-004B
Misc : SAMP
ALS Vial : 70 Sample Multiplier: 1

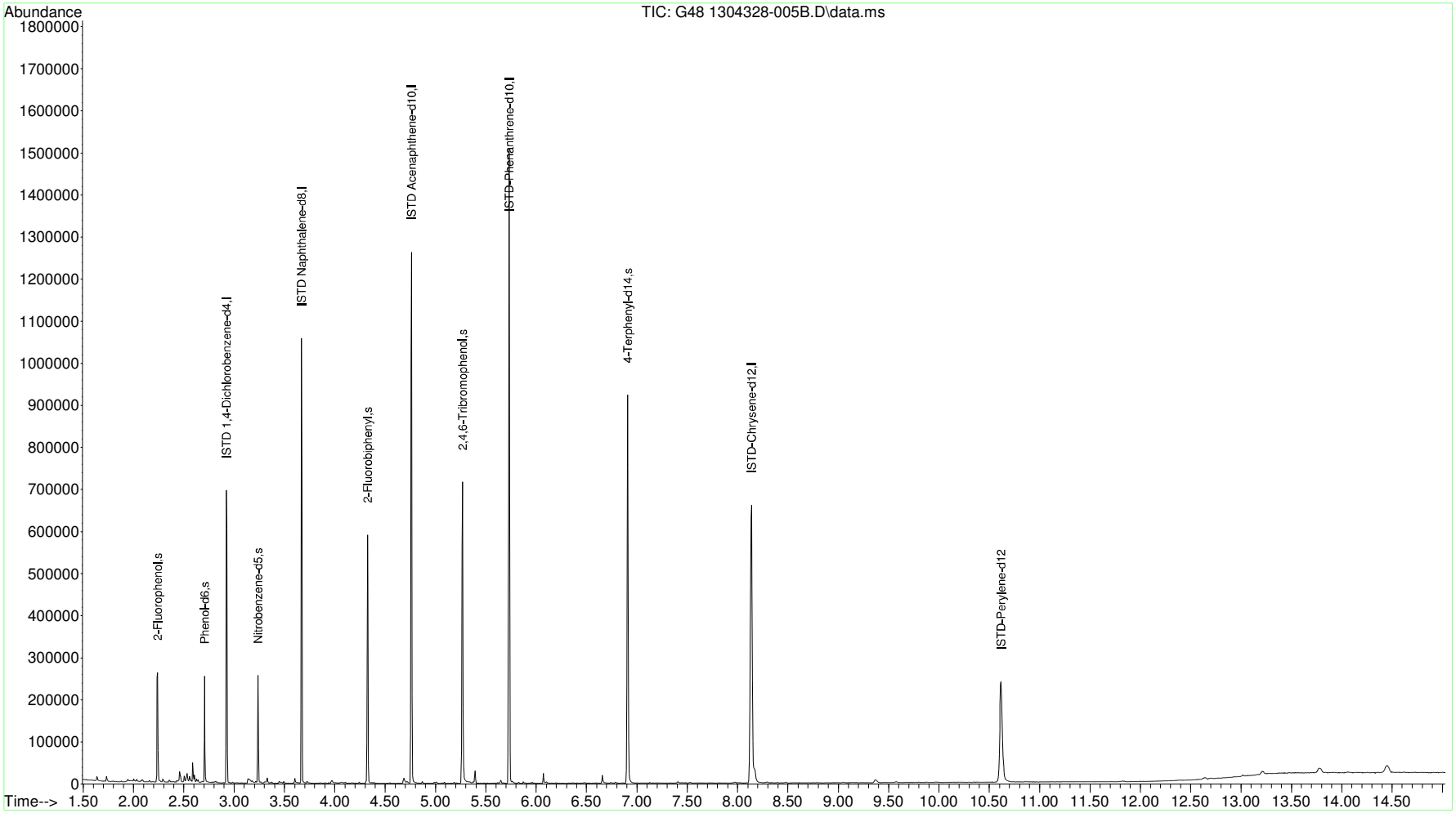
Quant Time: Apr 15 12:56:04 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\11APR 13-A\
Data File : G48 1304328-005B.D
Acq On : 12 Apr 2013 4:49 am
Operator : ALICIA HABERLE
Sample : 1304328-005B
Misc : SAMP
ALS Vial : 29 Sample Multiplier: 1

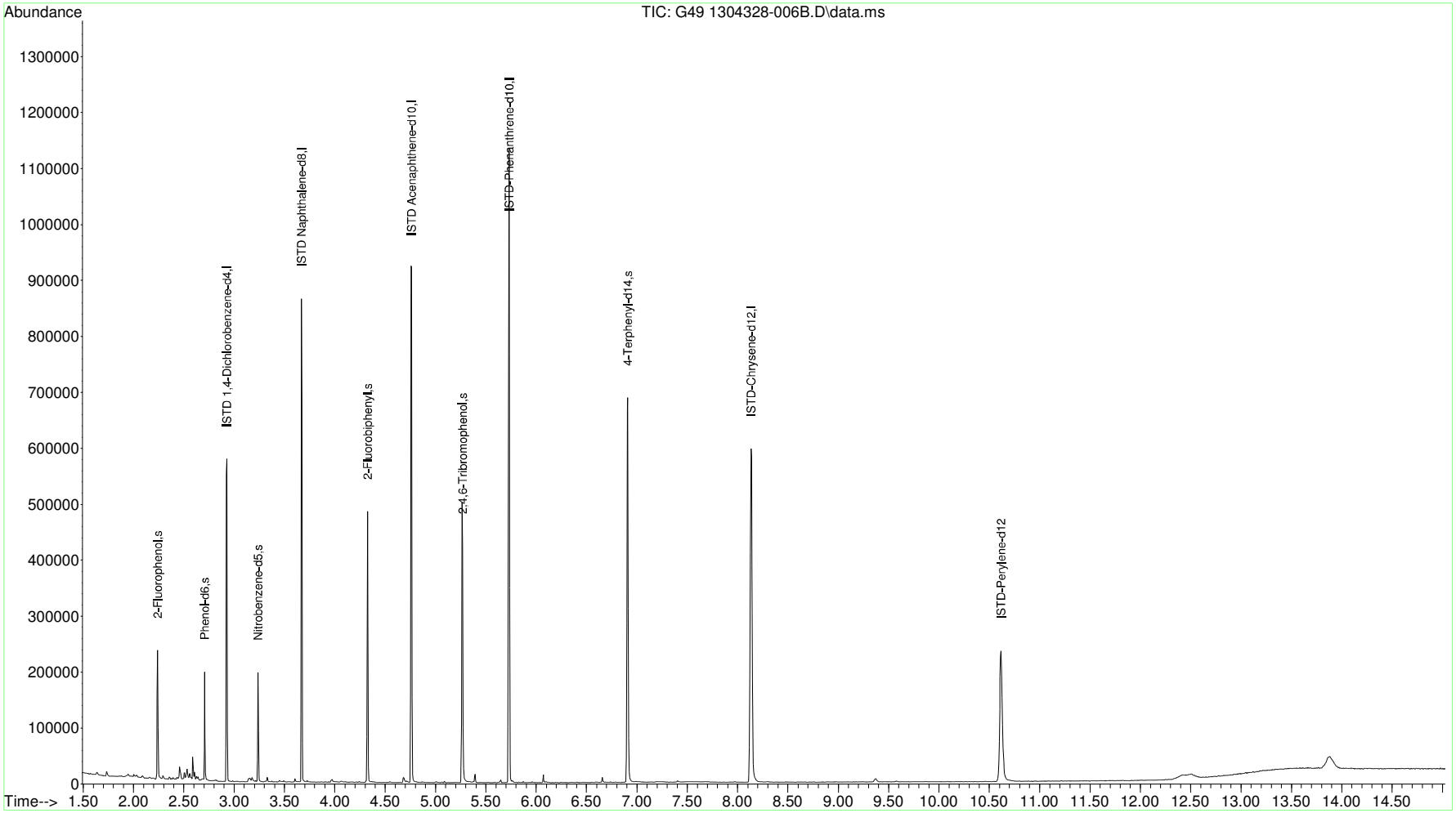
Quant Time: Apr 15 14:58:25 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\11APR 13-A\
Data File : G49 1304328-006B.D
Acq On : 12 Apr 2013 5:12 am
Operator : ALICIA HABERLE
Sample : 1304328-006B
Misc : SAMP
ALS Vial : 30 Sample Multiplier: 1

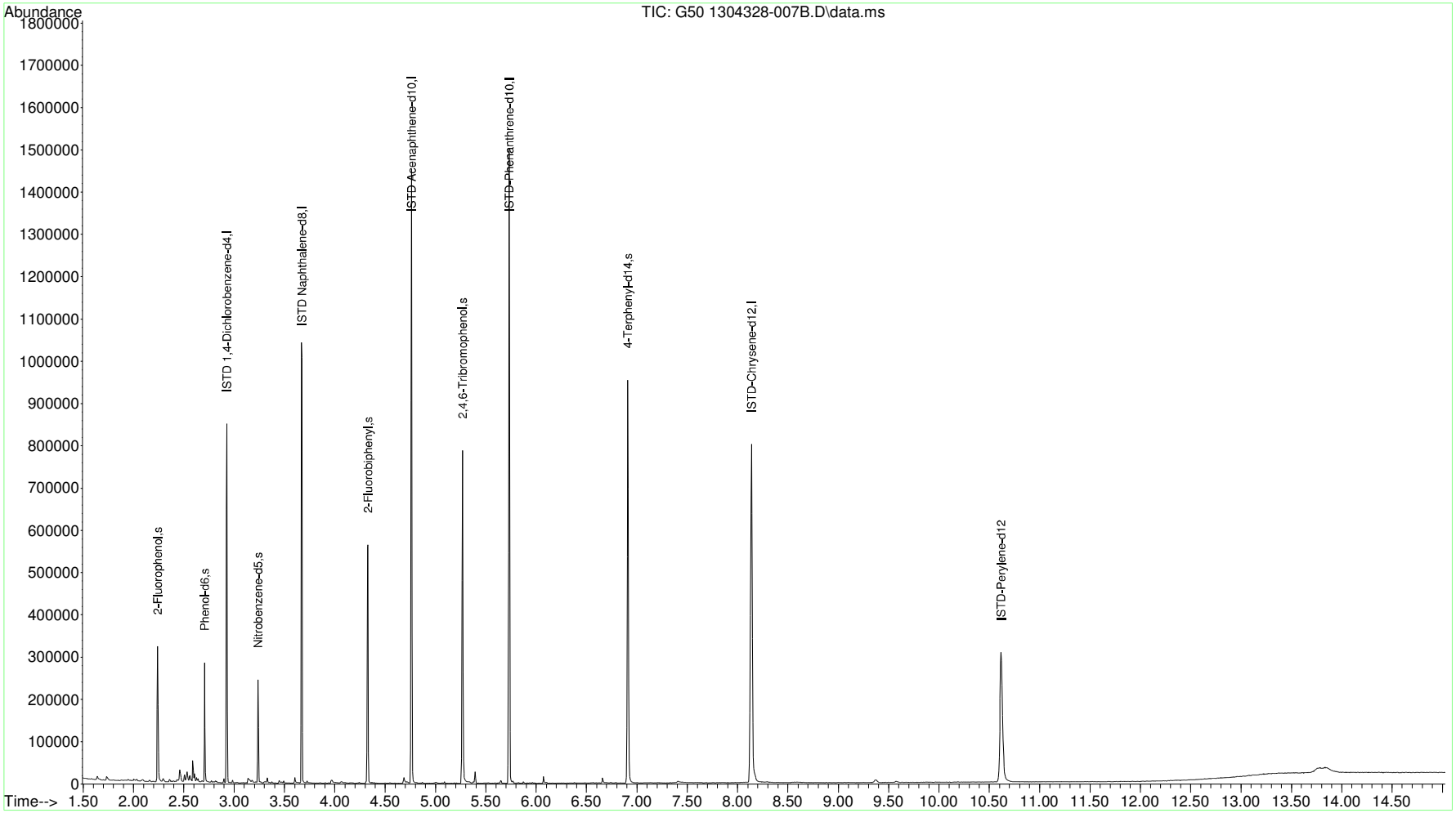
Quant Time: Apr 15 14:58:59 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\11APR 13-A\
Data File : G50 1304328-007B.D
Acq On : 12 Apr 2013 5:35 am
Operator : ALICIA HABERLE
Sample : 1304328-007B
Misc : SAMP
ALS Vial : 31 Sample Multiplier: 1

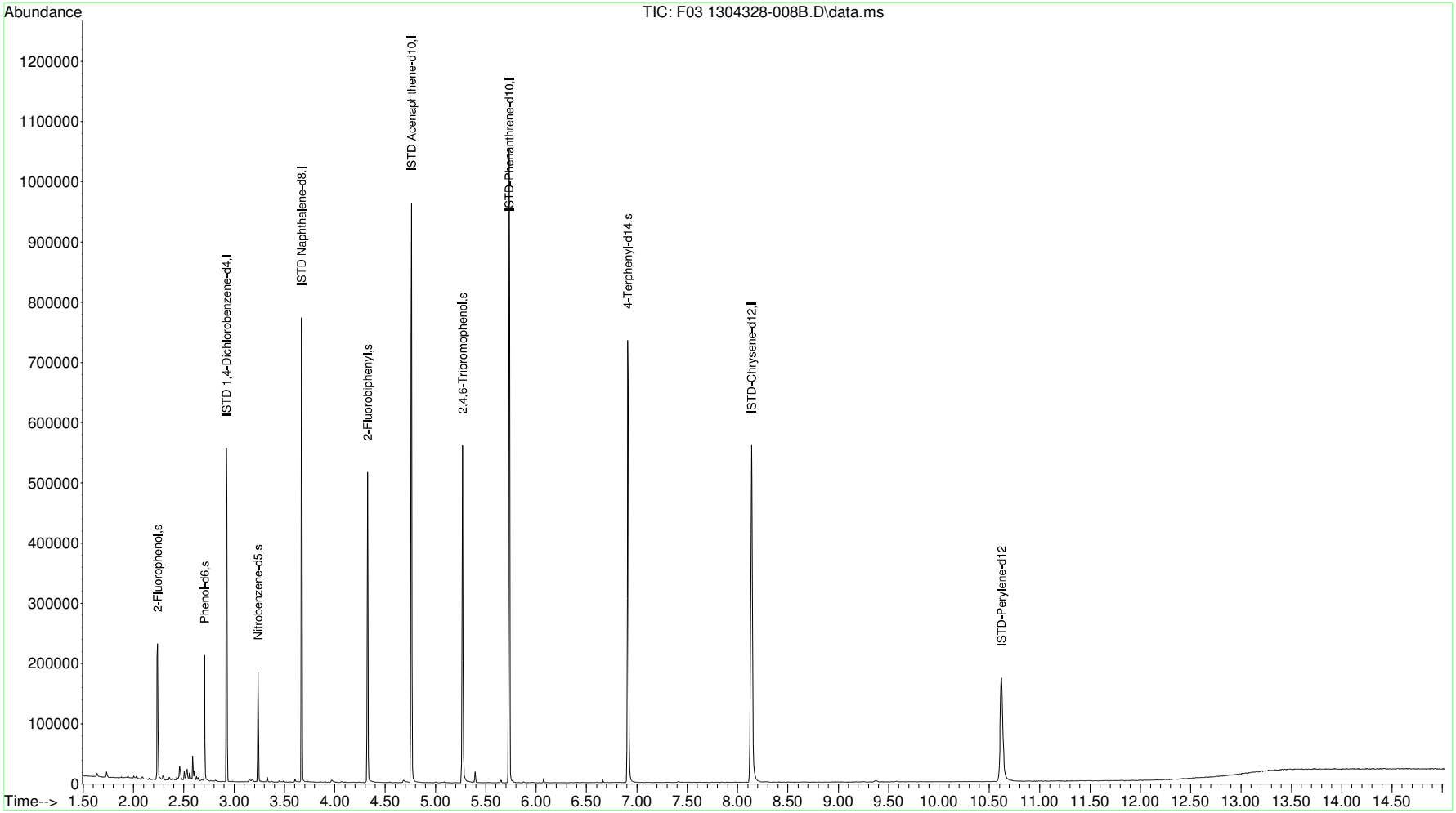
Quant Time: Apr 15 14:59:44 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F03 1304328-008B.D
Acq On : 12 Apr 2013 8:19 am
Operator : ALICIA HABERLE
Sample : 1304328-008B
Misc : SAMP
ALS Vial : 41 Sample Multiplier: 1

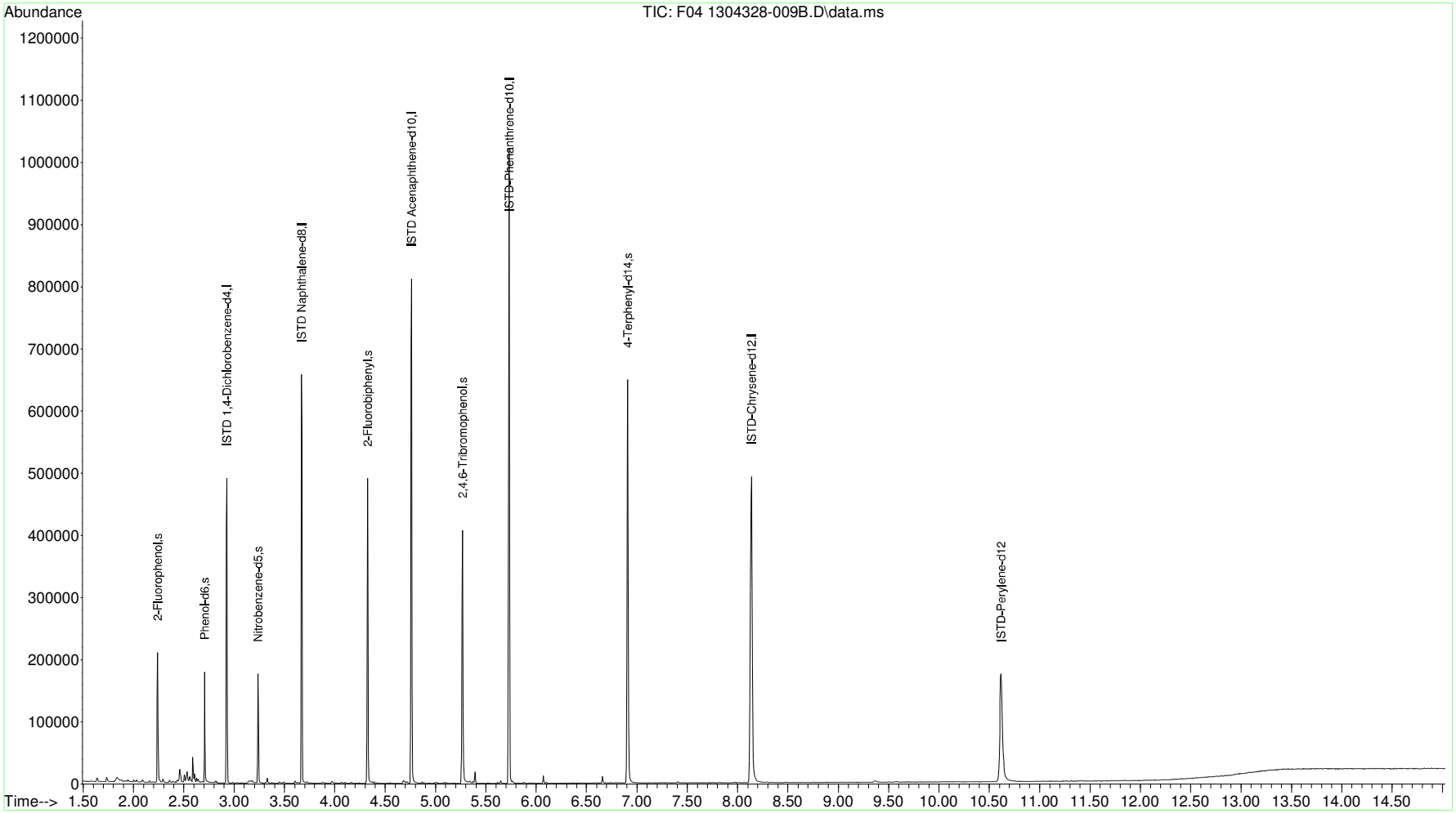
Quant Time: Apr 12 14:46:27 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F04 1304328-009B.D
Acq On : 12 Apr 2013 8:42 am
Operator : ALICIA HABERLE
Sample : 1304328-009B
Misc : SAMP
ALS Vial : 42 Sample Multiplier: 1

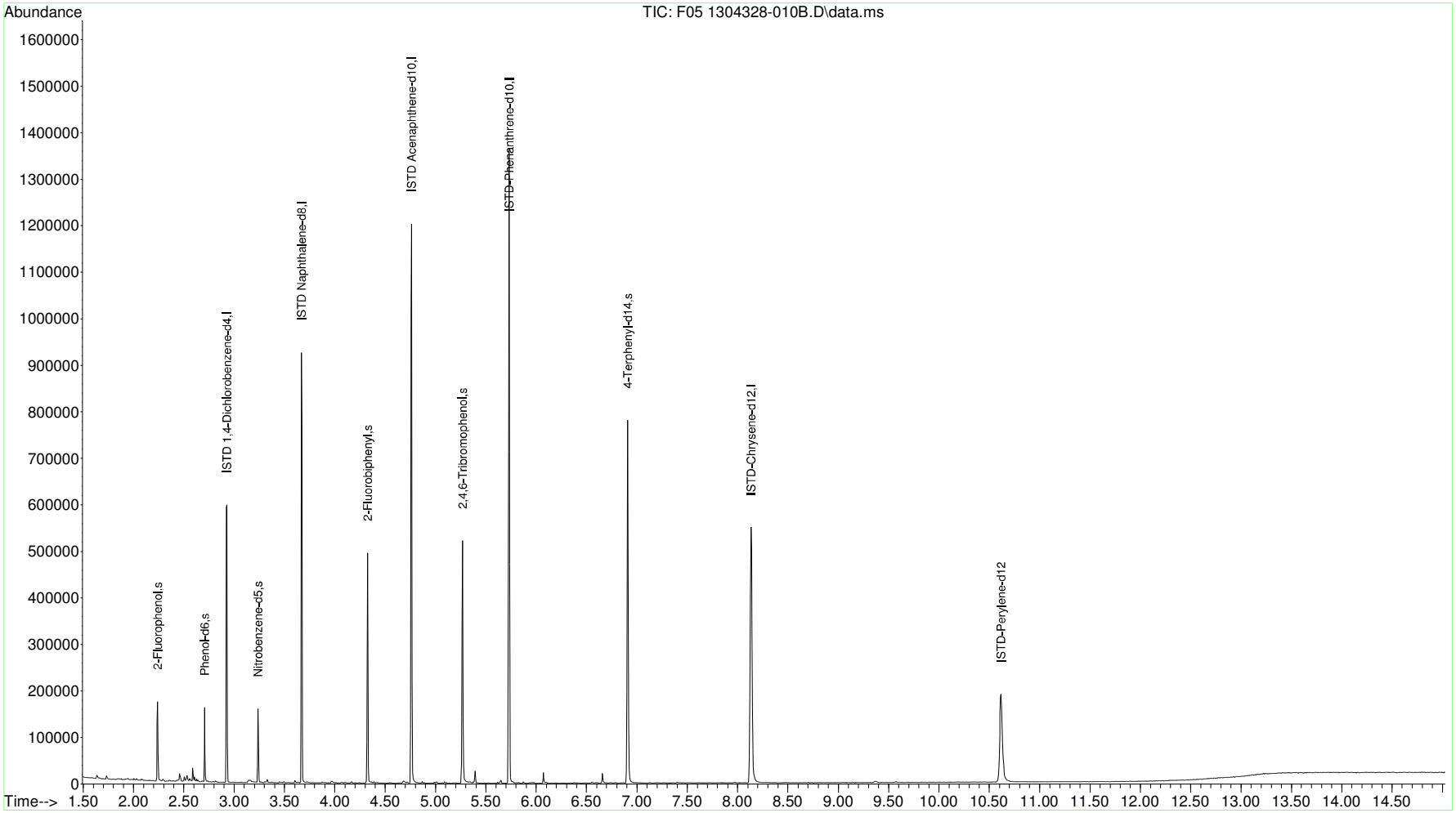
Quant Time: Apr 12 14:47:44 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F05 1304328-010B.D
Acq On : 12 Apr 2013 9:05 am
Operator : ALICIA HABERLE
Sample : 1304328-010B
Misc : SAMP
ALS Vial : 43 Sample Multiplier: 1

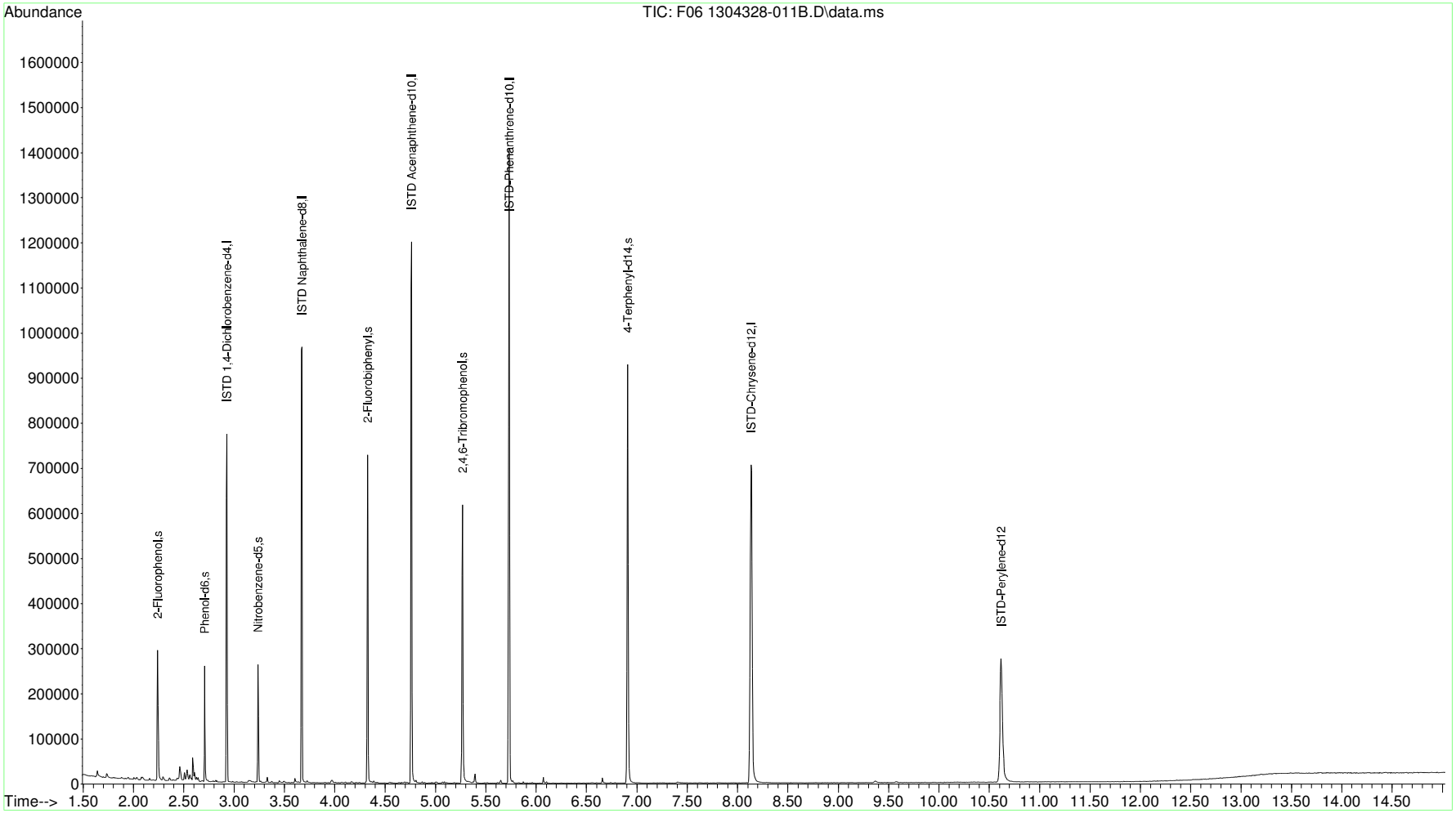
Quant Time: Apr 12 14:48:27 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F06 1304328-011B.D
Acq On : 12 Apr 2013 9:29 am
Operator : ALICIA HABERLE
Sample : 1304328-011B
Misc : SAMP
ALS Vial : 44 Sample Multiplier: 1

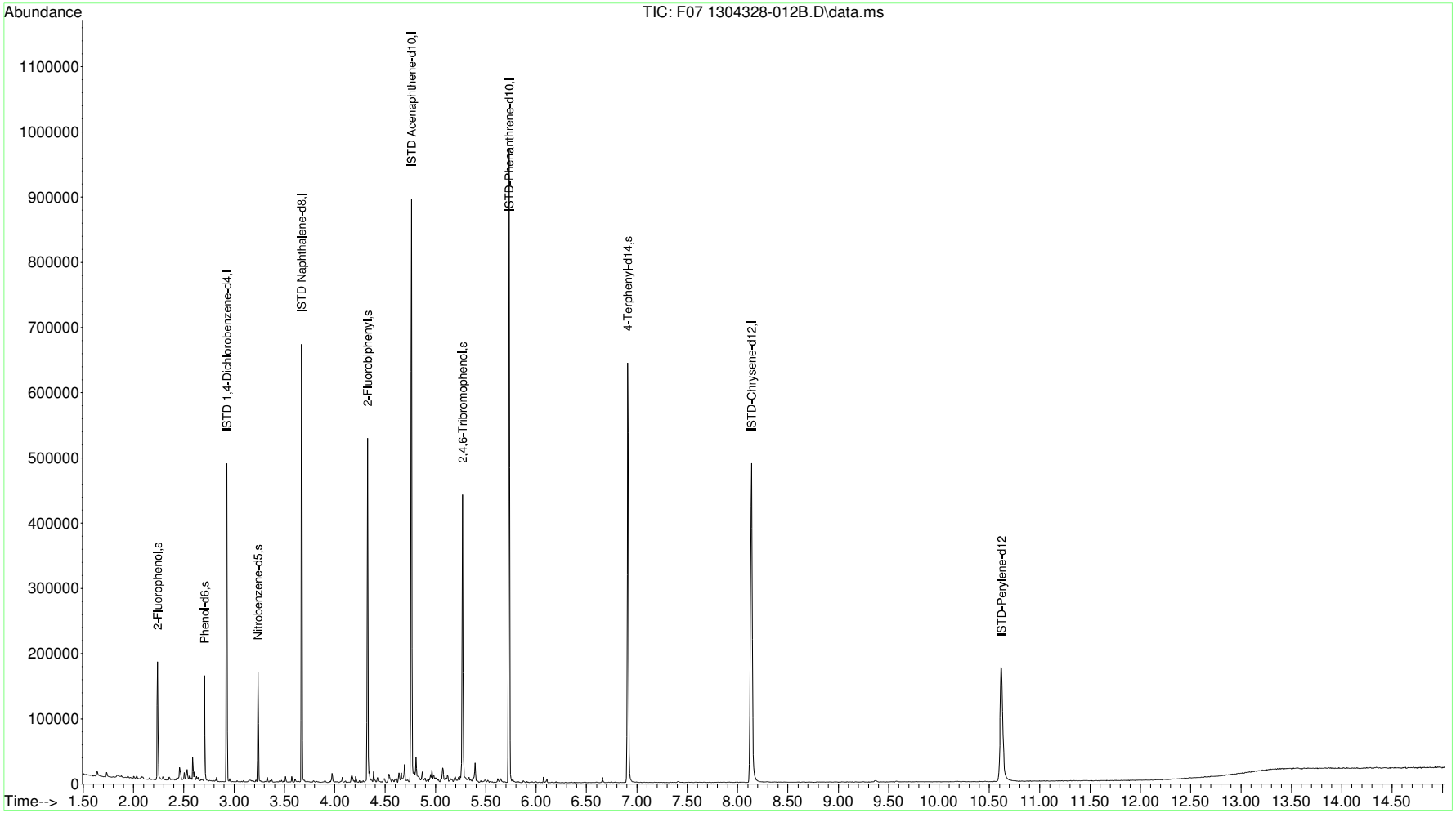
Quant Time: Apr 12 14:50:24 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F07 1304328-012B.D
Acq On : 12 Apr 2013 9:52 am
Operator : ALICIA HABERLE
Sample : 1304328-012B
Misc : SAMP
ALS Vial : 45 Sample Multiplier: 1

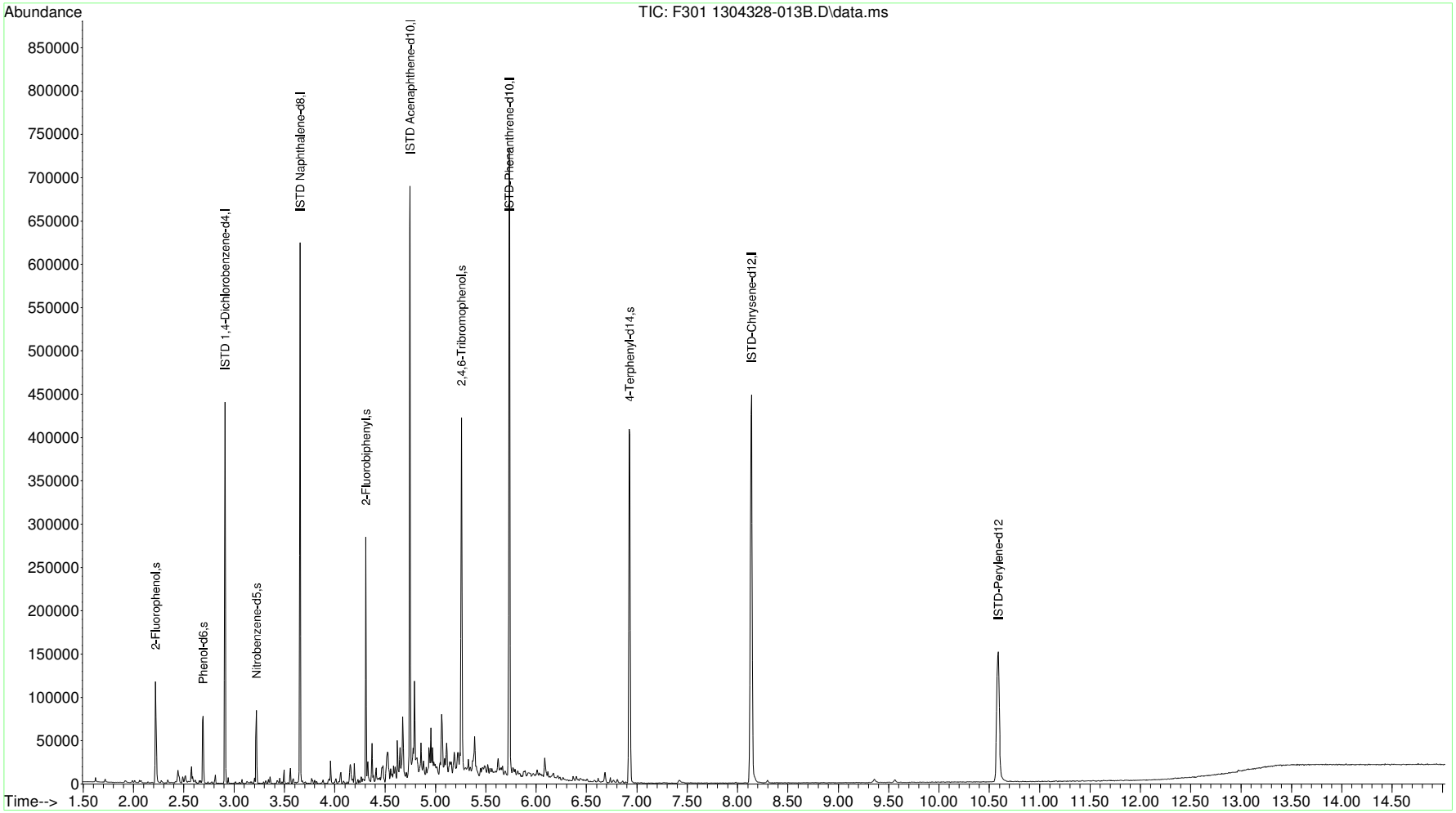
Quant Time: Apr 12 14:52:55 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F301 1304328-013B.D
Acq On : 12 Apr 2013 10:02 pm
Operator : ALICIA HABERLE
Sample : 1304328-013B
Misc : SAMP
ALS Vial : 5 Sample Multiplier: 1

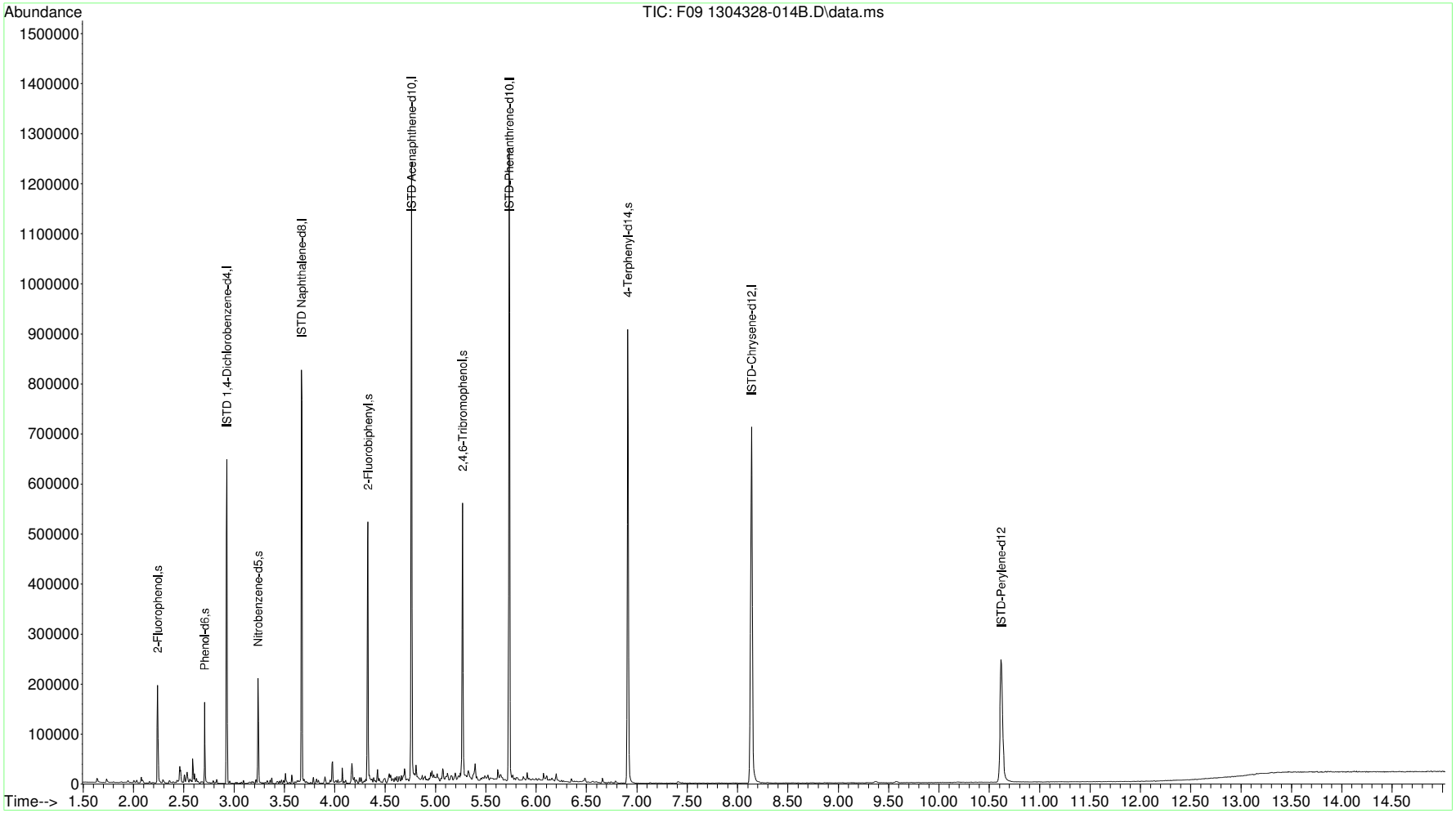
Quant Time: Apr 16 14:32:05 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F09 1304328-014B.D
Acq On : 12 Apr 2013 10:38 am
Operator : ALICIA HABERLE
Sample : 1304328-014B
Misc : SAMP
ALS Vial : 47 Sample Multiplier: 1

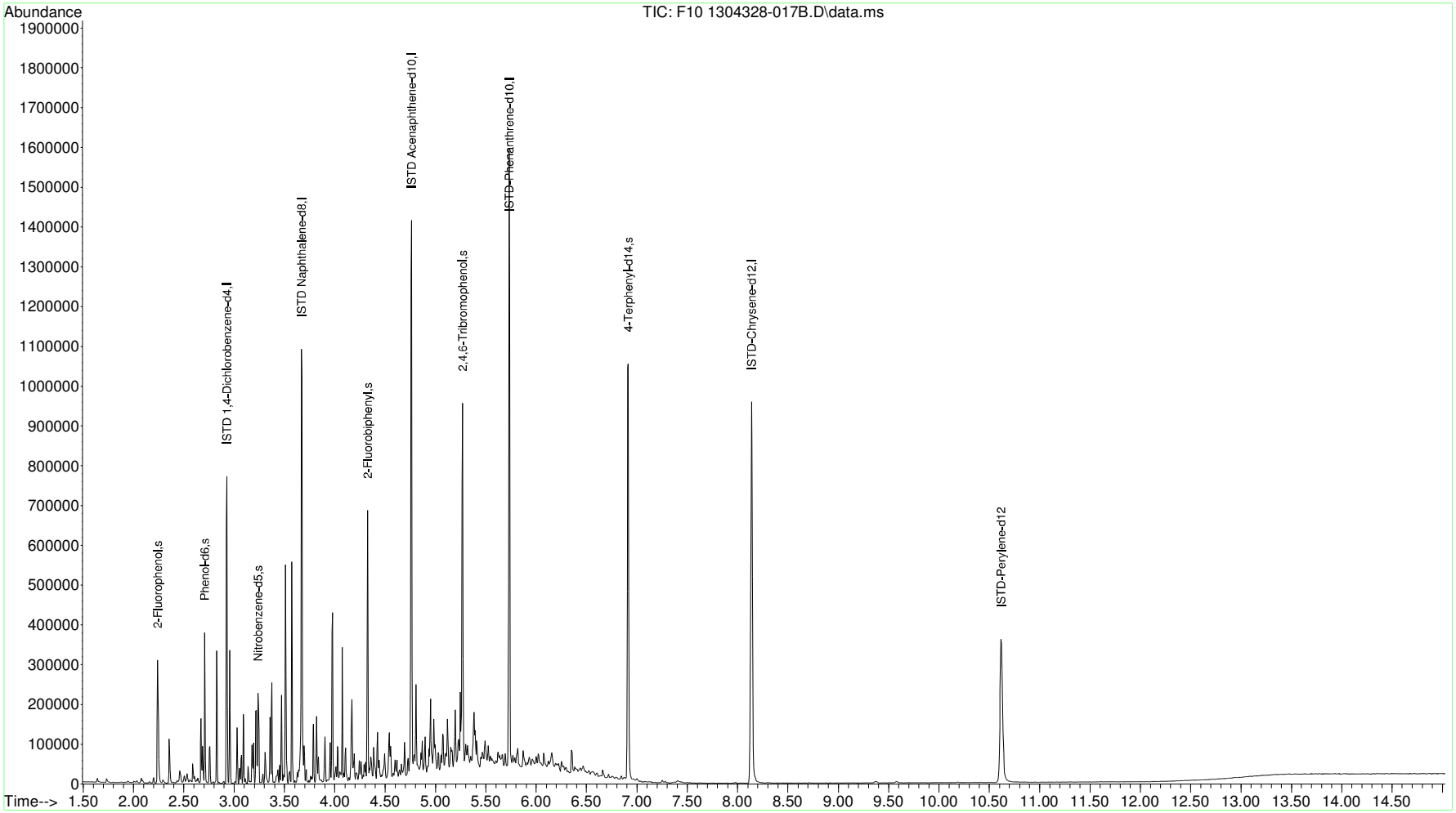
Quant Time: Apr 12 14:54:27 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F10 1304328-017B.D
Acq On : 12 Apr 2013 11:01 am
Operator : ALICIA HABERLE
Sample : 1304328-017B
Misc : SAMP
ALS Vial : 48 Sample Multiplier: 1

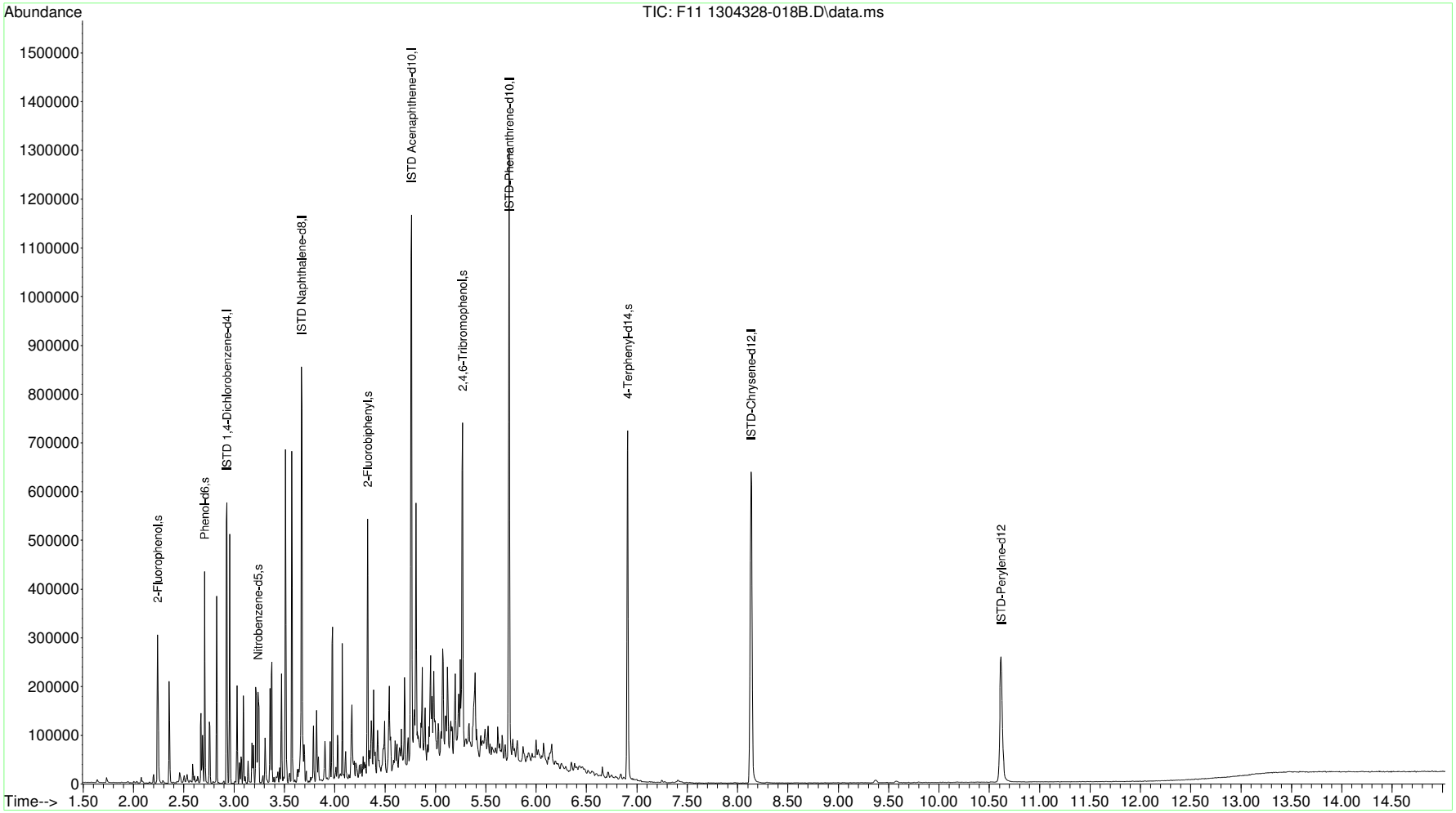
Quant Time: Apr 12 14:58:05 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F11 1304328-018B.D
Acq On : 12 Apr 2013 11:24 am
Operator : ALICIA HABERLE
Sample : 1304328-018B
Misc : SAMP
ALS Vial : 49 Sample Multiplier: 1

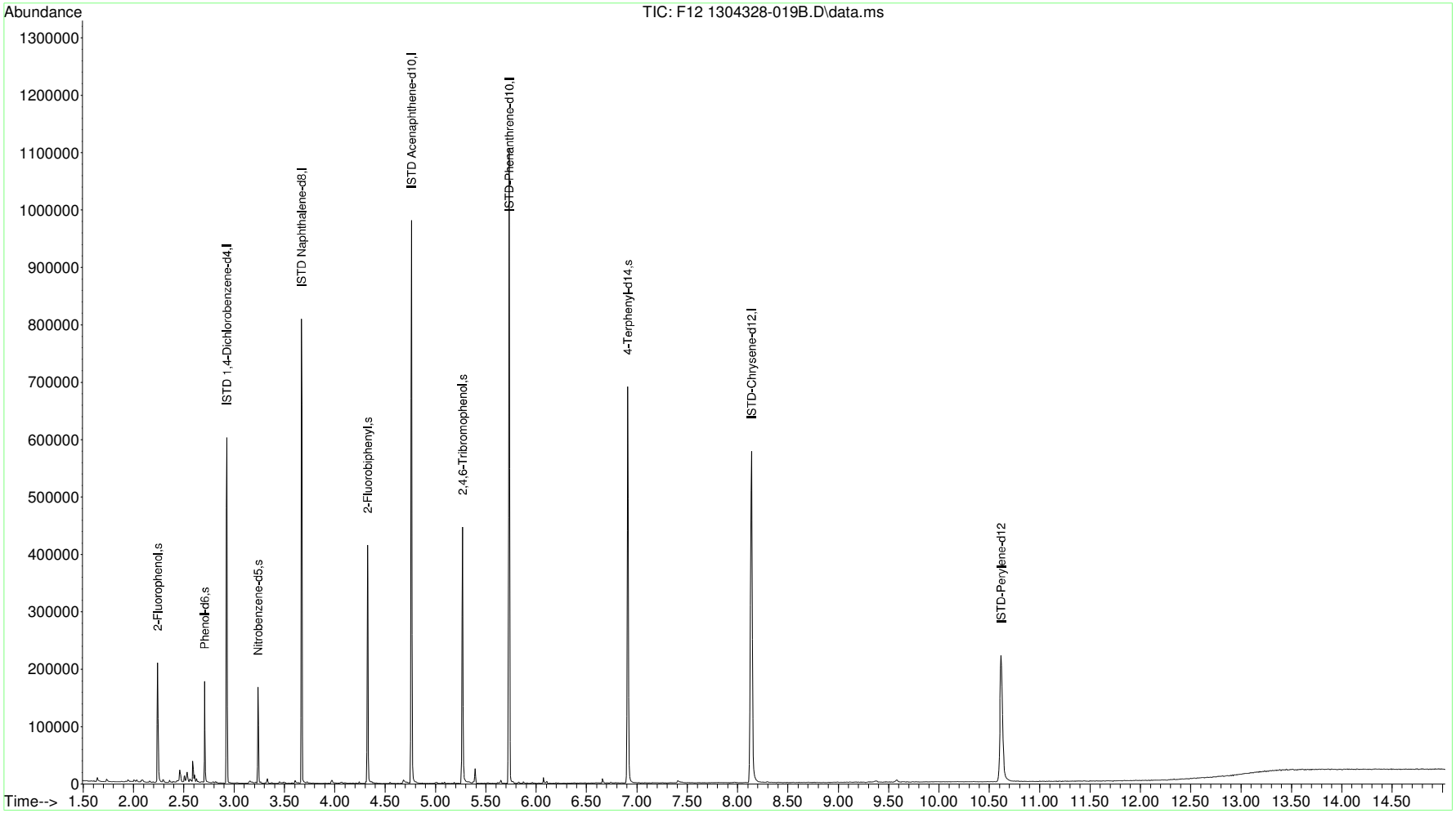
Quant Time: Apr 12 14:59:53 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F12 1304328-019B.D
Acq On : 12 Apr 2013 11:47 am
Operator : ALICIA HABERLE
Sample : 1304328-019B
Misc : SAMP
ALS Vial : 50 Sample Multiplier: 1

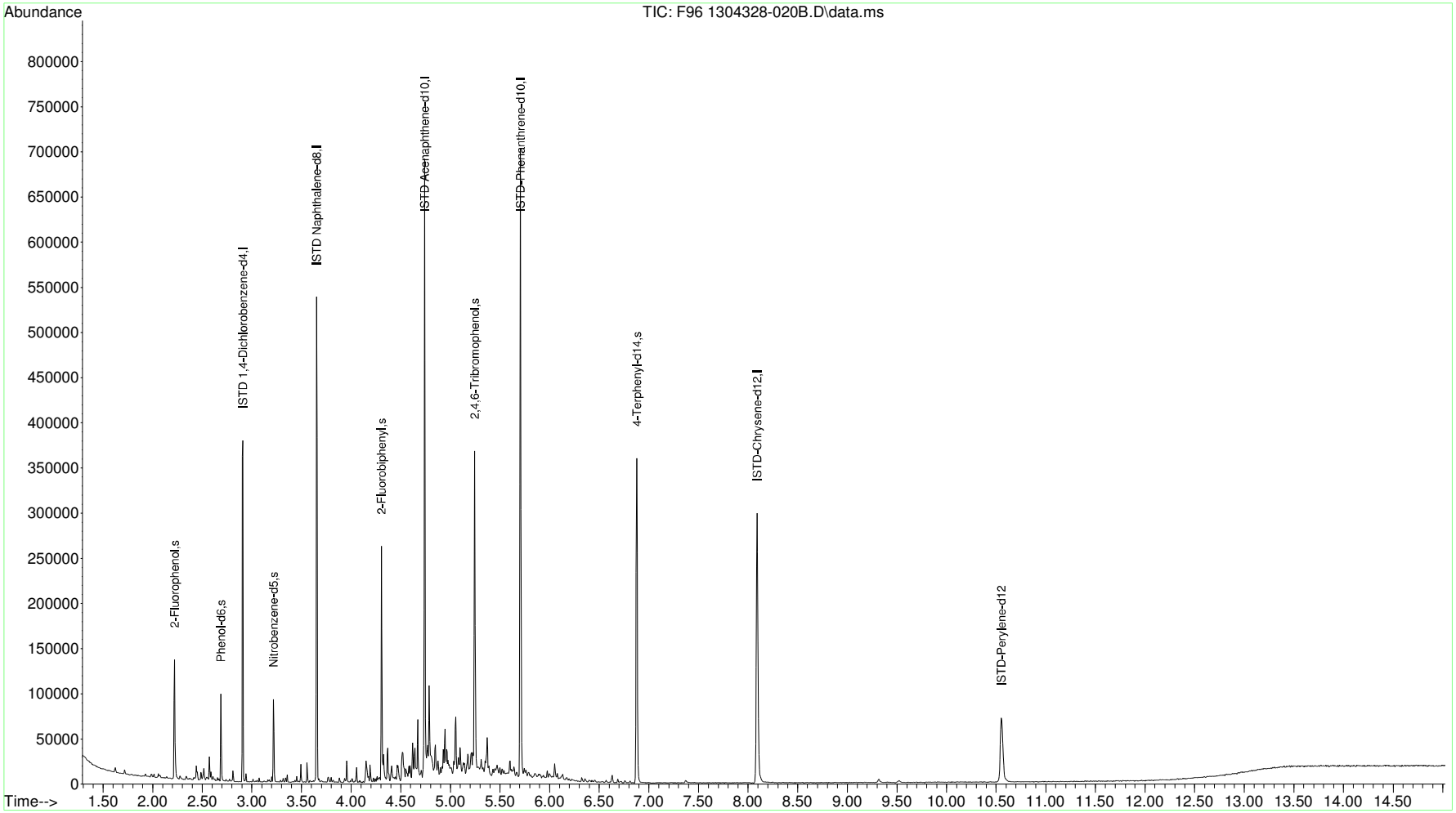
Quant Time: Apr 12 15:00:57 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\15APR 13-A\
Data File : F96 1304328-020B.D
Acq On : 15 Apr 2013 8:50 pm
Operator : ALICIA HABERLE
Sample : 1304328-020B
Misc : SAMP
ALS Vial : 22 Sample Multiplier: 1

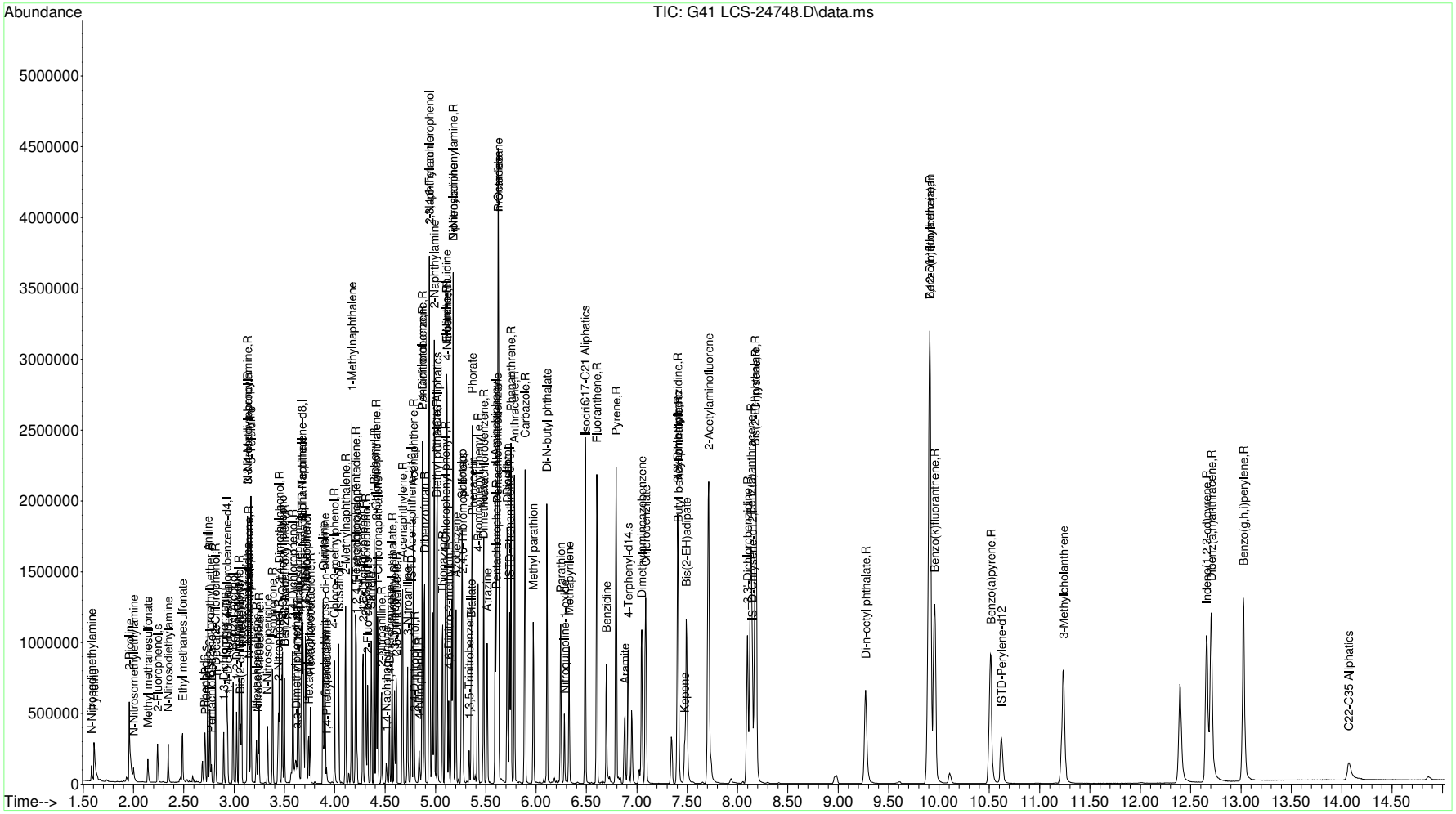
Quant Time: Apr 16 11:26:38 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-15-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Tue Apr 16 10:52:47 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\11APR 13-A\
Data File : G41 LCS-24748.D
Acq On : 12 Apr 2013 2:02 am
Operator : ALICIA HABERLE
Sample : LCS-24748
Misc : LCS
ALS Vial : 22 Sample Multiplier: 1

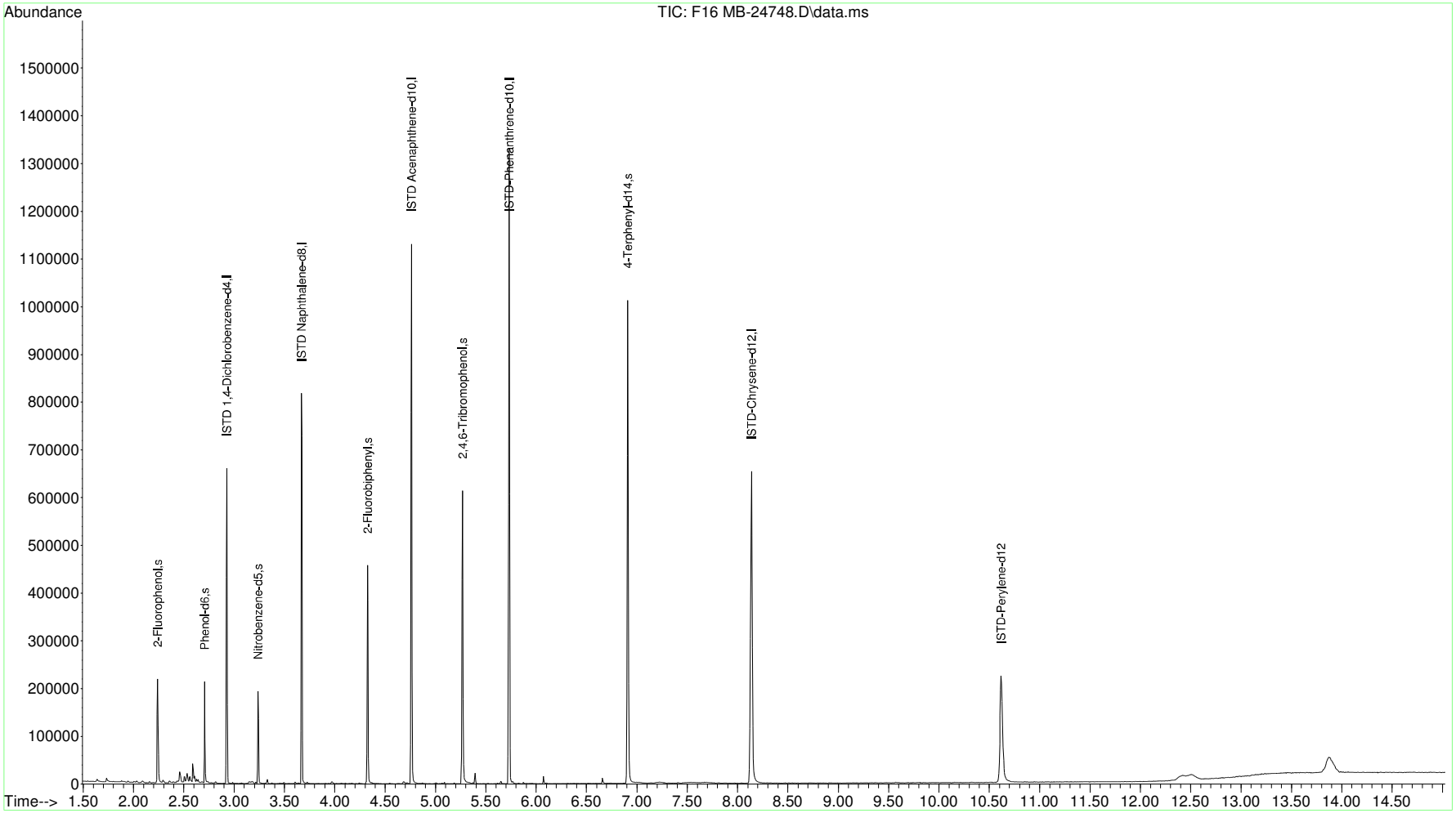
Quant Time: Apr 15 14:48:55 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\12APR 13-A\
Data File : F16 MB-24748.D
Acq On : 12 Apr 2013 1:20 pm
Operator : ALICIA HABERLE
Sample : MB-24748
Misc : MBLK
ALS Vial : 68 Sample Multiplier: 1

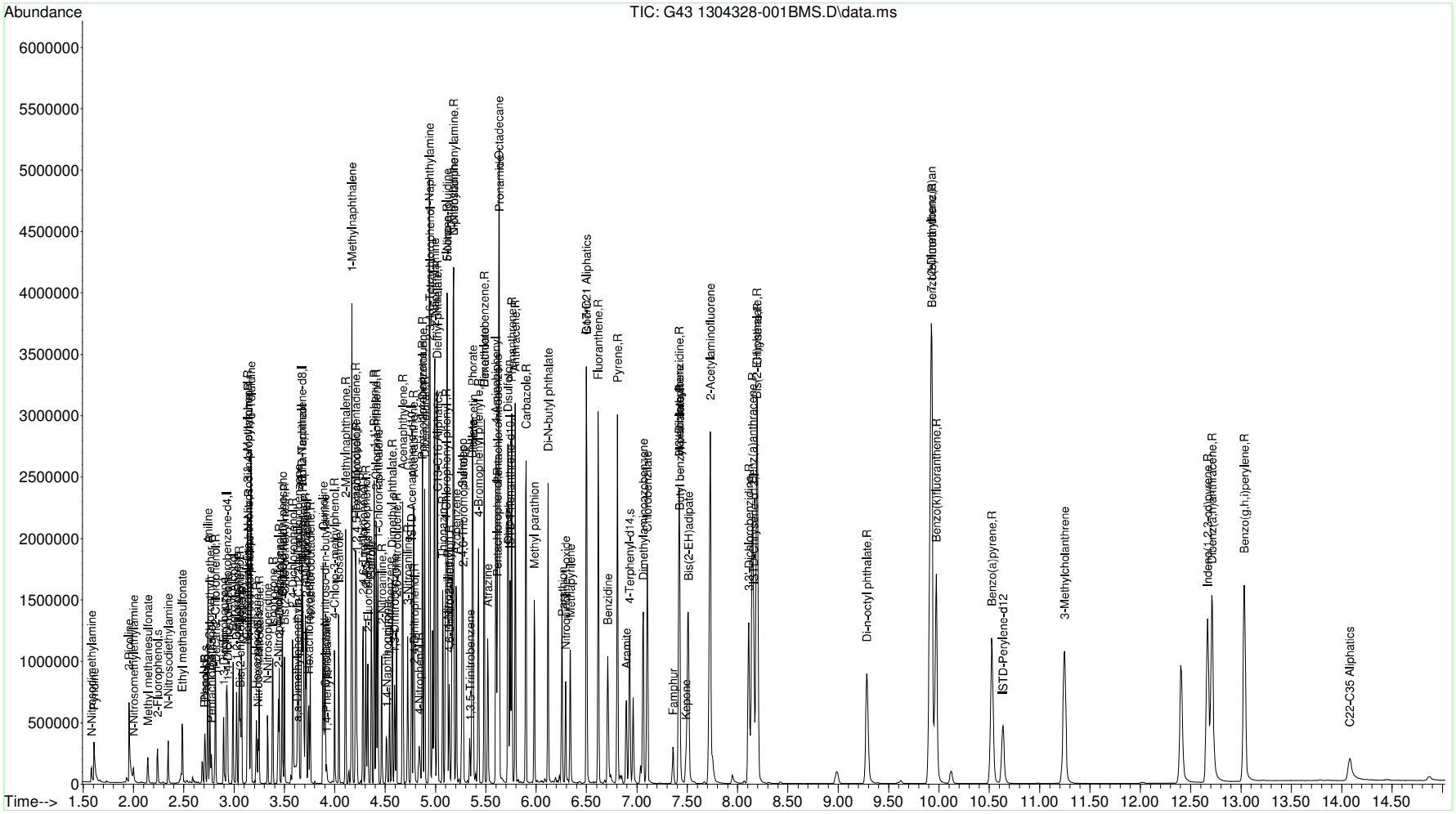
Quant Time: Apr 15 12:53:44 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\11APR 13-A\
Data File : G43 1304328-001BMS.D
Acq On : 12 Apr 2013 2:51 am
Operator : ALICIA HABERLE
Sample : 1304328-001BMS
Misc : MS
ALS Vial : 24 Sample Multiplier: 1

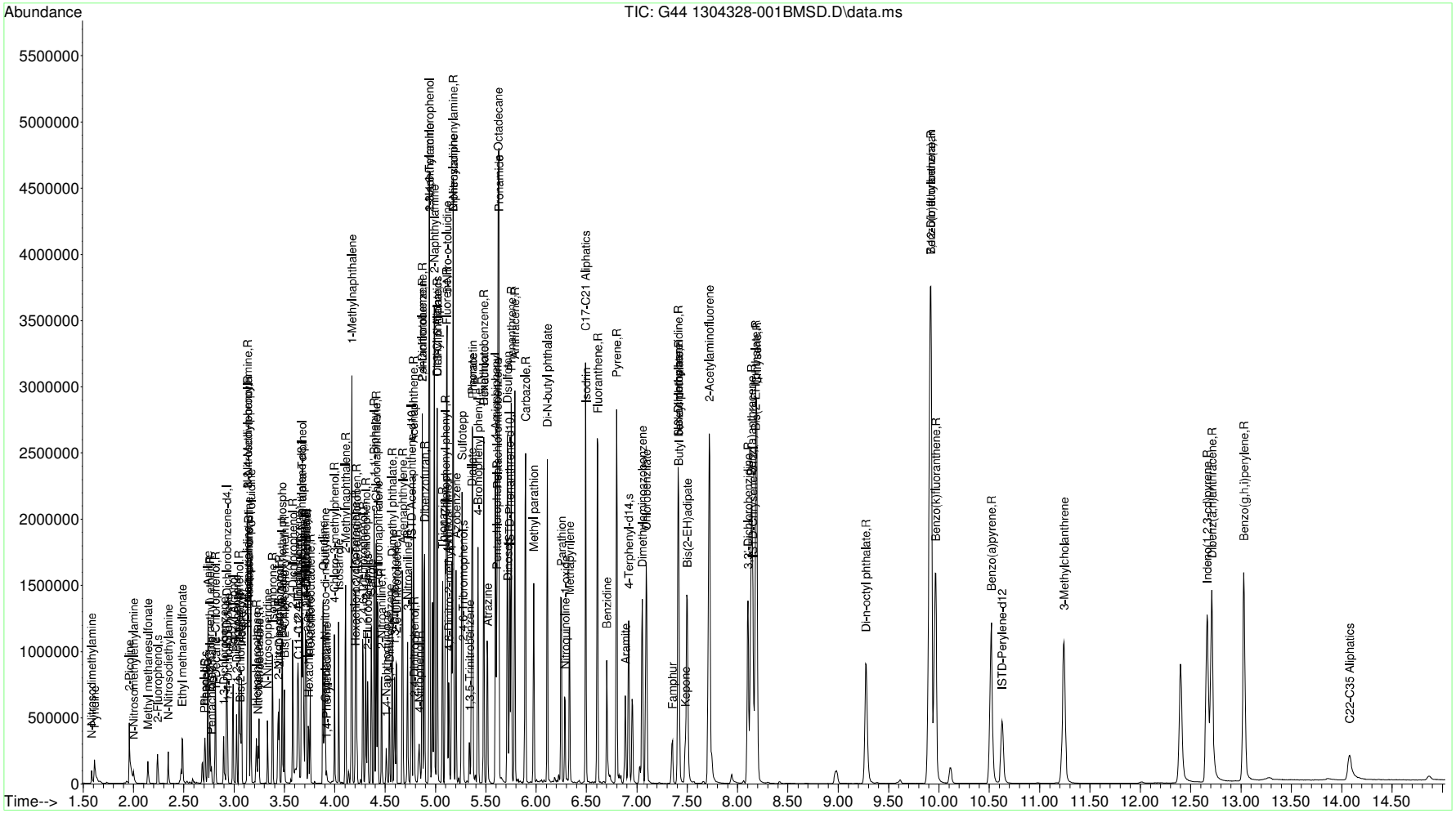
Quant Time: Apr 15 14:51:26 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\APR 13\11APR 13-A\
Data File : G44 1304328-001BMSD.D
Acq On : 12 Apr 2013 3:15 am
Operator : ALICIA HABERLE
Sample : 1304328-001BMSD
Misc : MSD
ALS Vial : 25 Sample Multiplier: 1

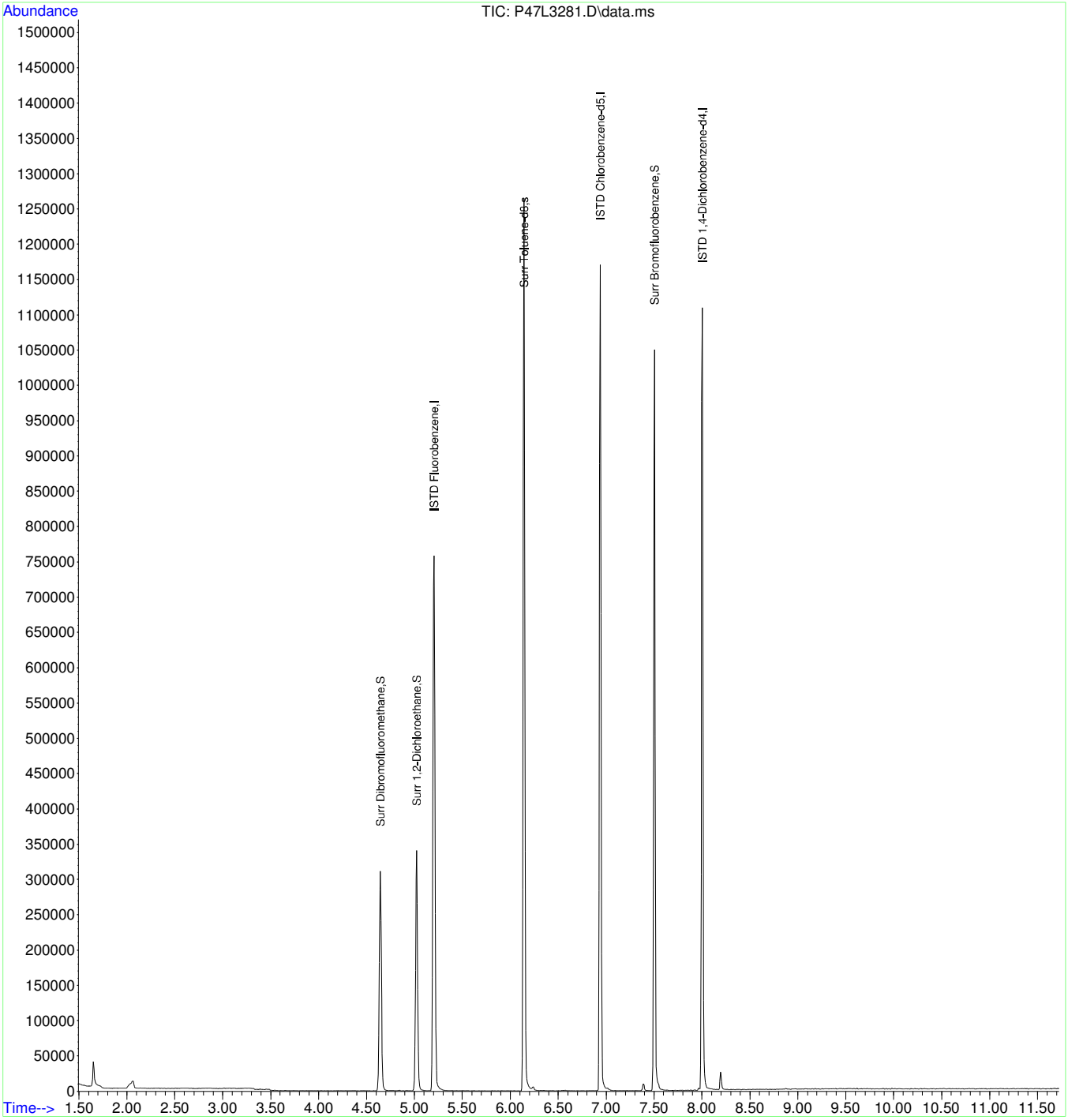
Quant Time: Apr 15 15:10:50 2013
Quant Method : C:\msdchem\1\methods\SVQUANT4-05-13.M
Quant Title : Semi-Volatile Compounds HP-GCMS 5973-B
QLast Update : Fri Apr 12 11:43:32 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P47L3281.D
Acq On : 10 Apr 2013 6:44 pm
Operator :
Sample : 1304328-001A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 22 Sample Multiplier: 1

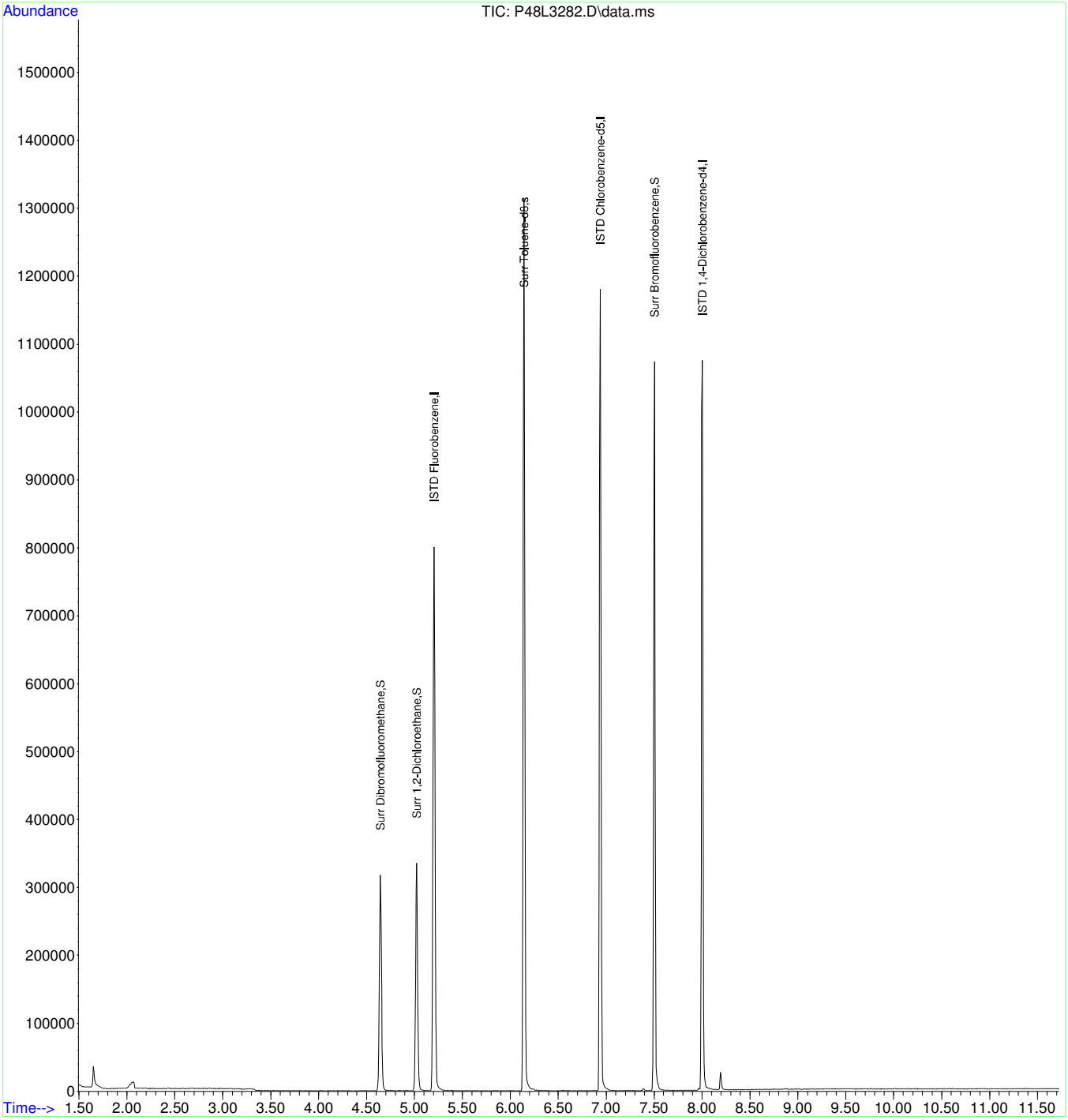
Quant Time: Apr 10 20:06:31 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P48L3282.D
Acq On : 10 Apr 2013 7:03 pm
Operator :
Sample : 1304328-002A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 23 Sample Multiplier: 1

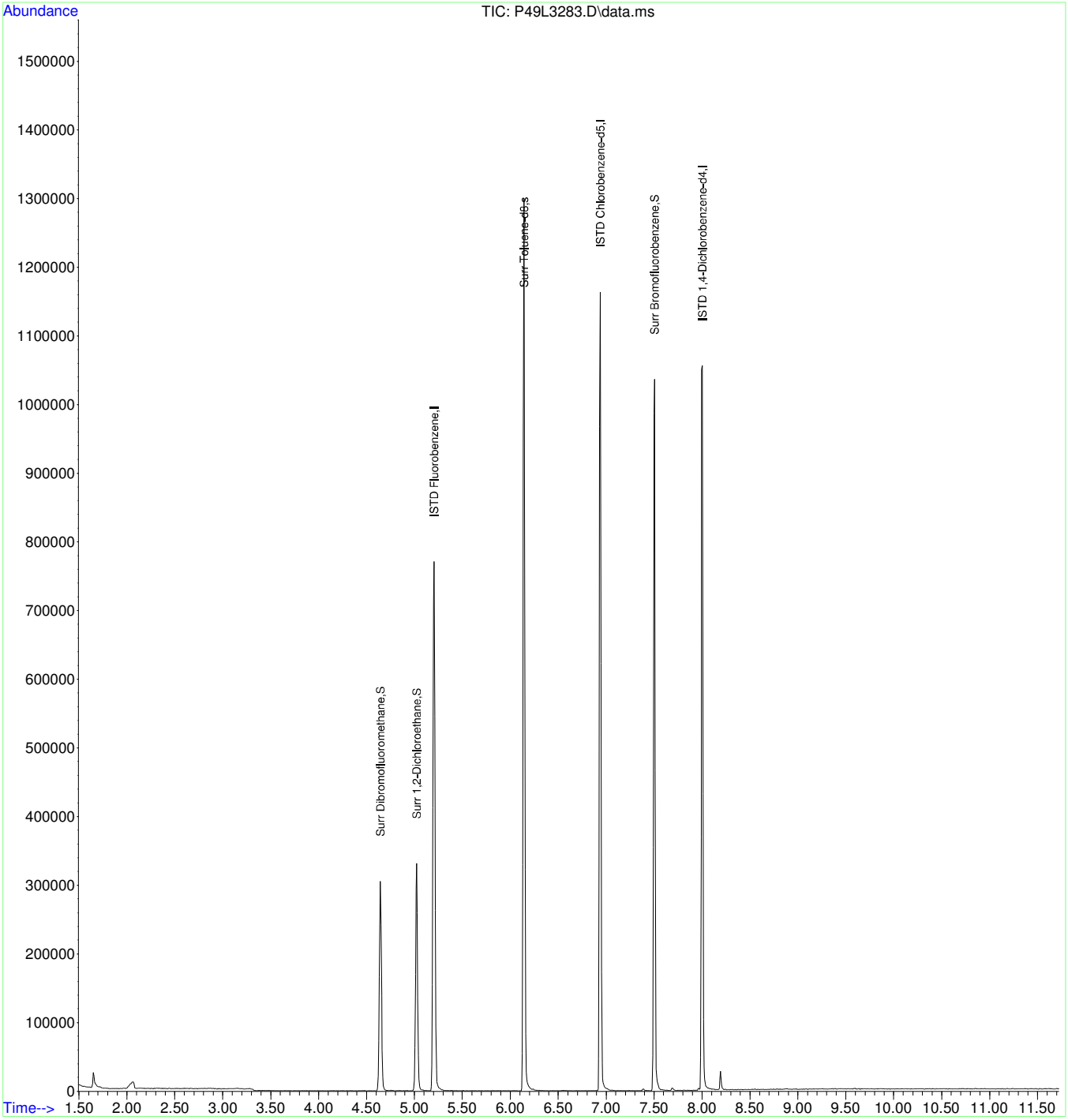
Quant Time: Apr 10 20:07:50 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P49L3283.D
Acq On : 10 Apr 2013 7:22 pm
Operator :
Sample : 1304328-003A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 24 Sample Multiplier: 1

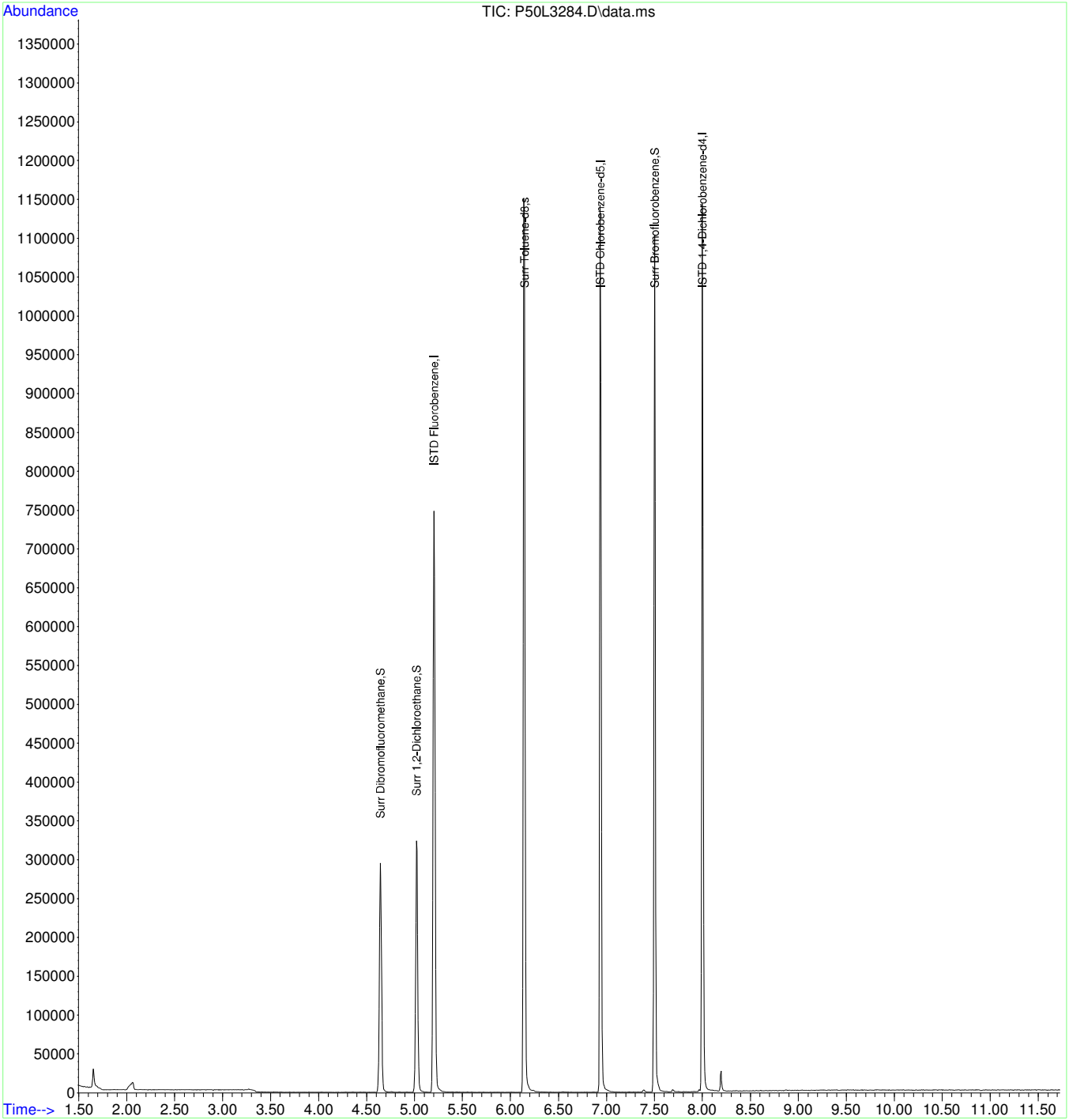
Quant Time: Apr 10 20:13:09 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P50L3284.D
Acq On : 10 Apr 2013 7:41 pm
Operator :
Sample : 1304328-004A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 25 Sample Multiplier: 1

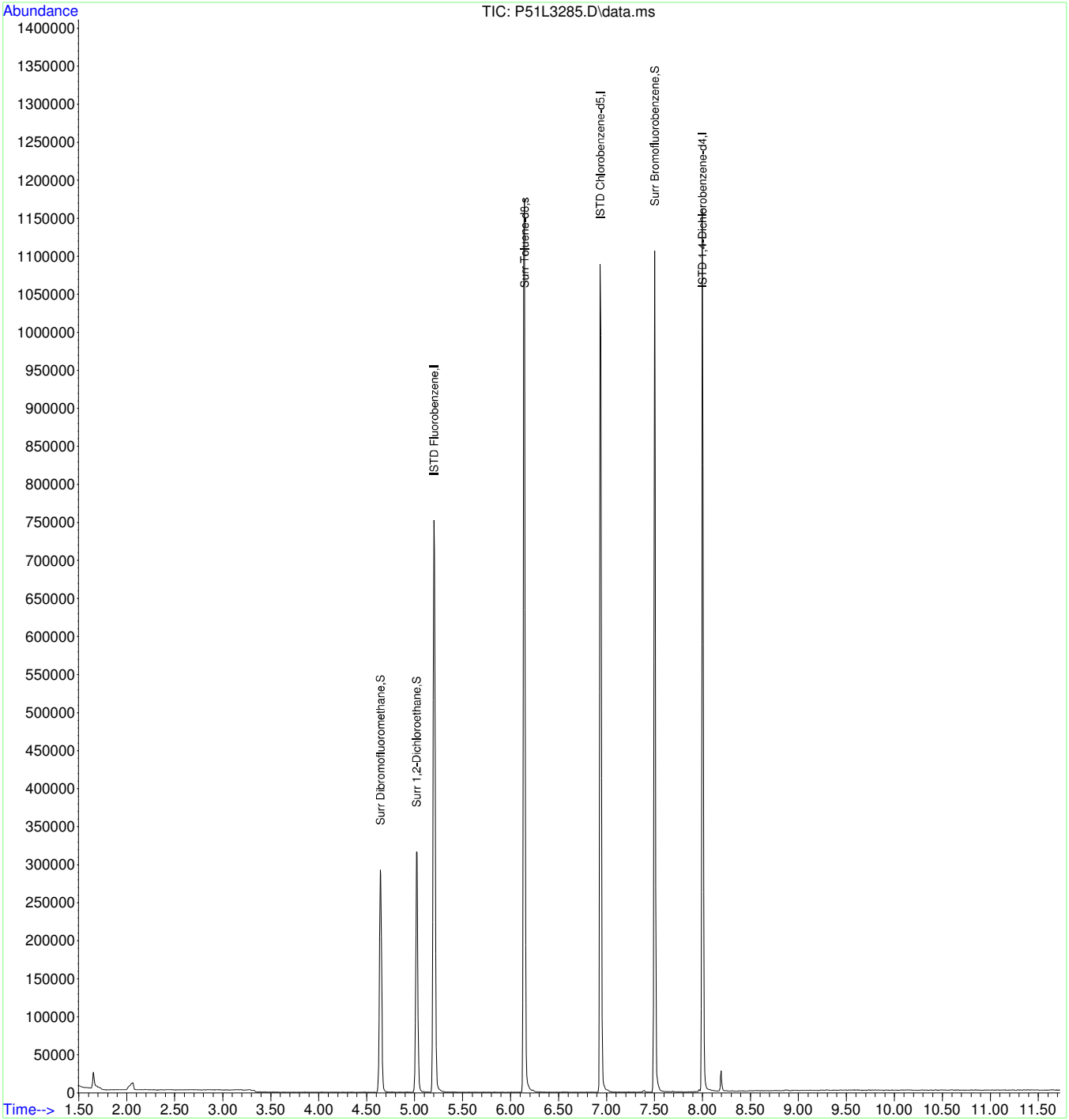
Quant Time: Apr 10 20:11:40 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P51L3285.D
Acq On : 10 Apr 2013 8:00 pm
Operator :
Sample : 1304328-005A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 26 Sample Multiplier: 1

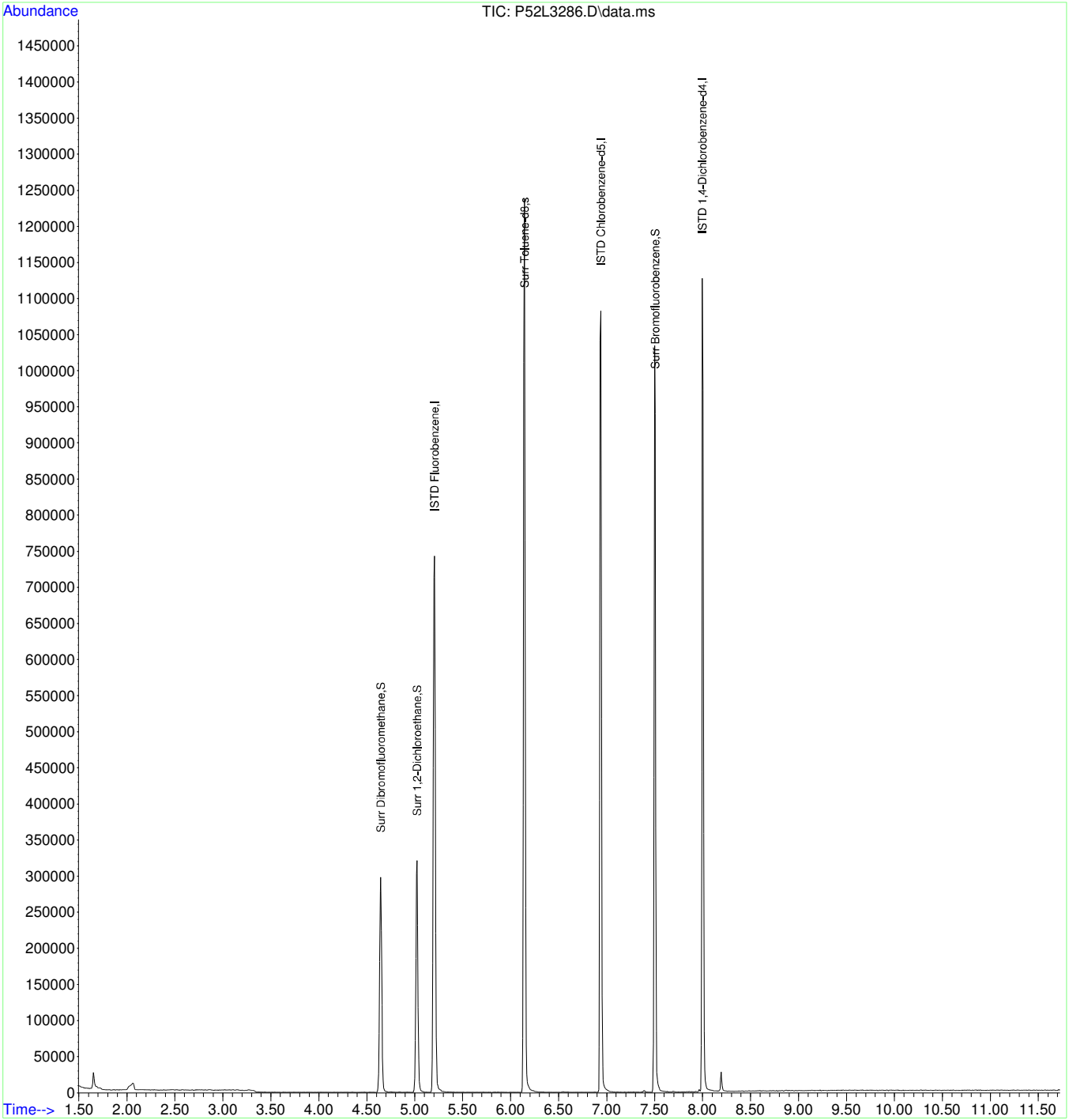
Quant Time: Apr 10 20:14:30 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P52L3286.D
Acq On : 10 Apr 2013 8:19 pm
Operator :
Sample : 1304328-006A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 27 Sample Multiplier: 1

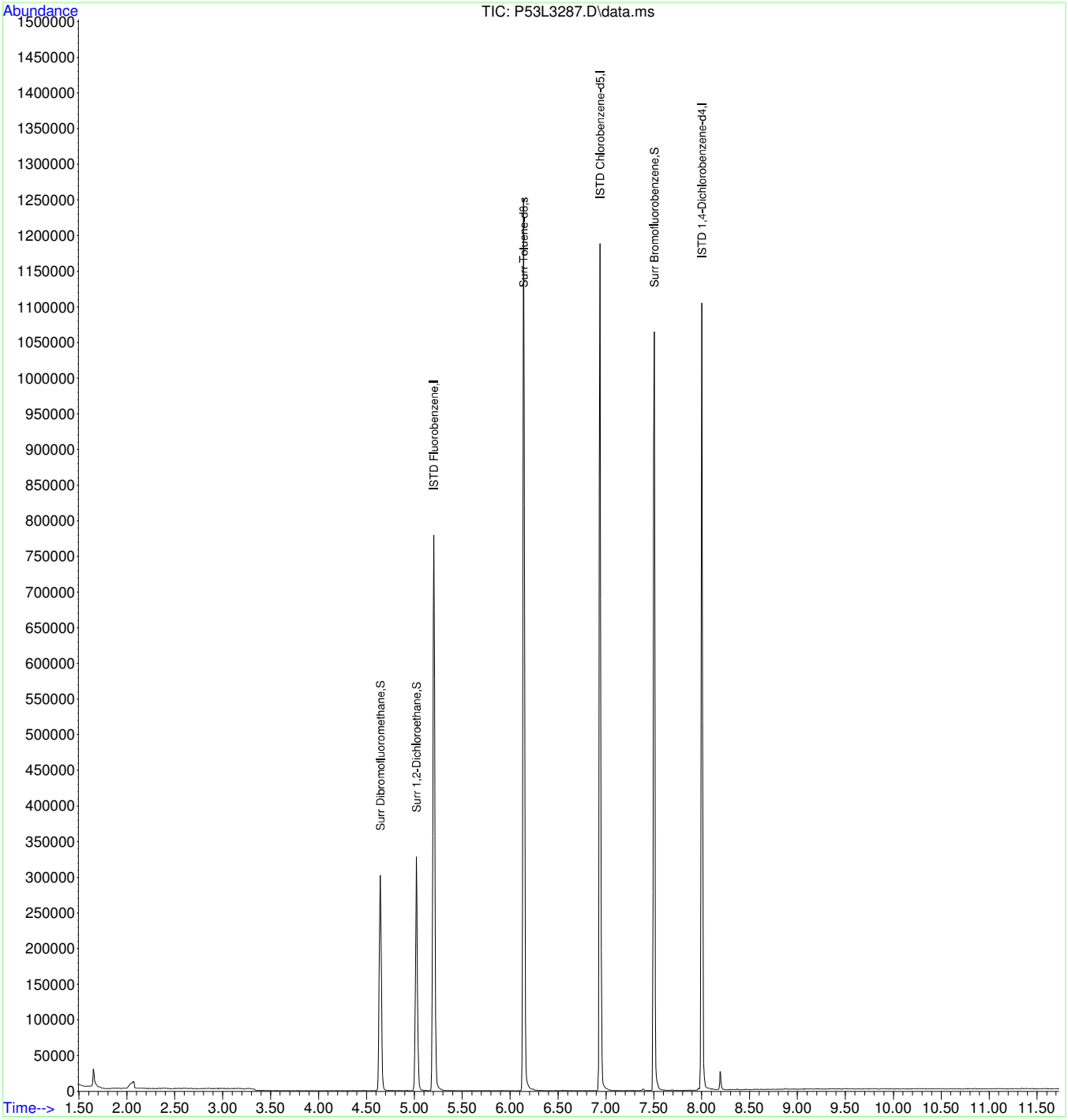
Quant Time: Apr 10 21:05:53 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P53L3287.D
Acq On : 10 Apr 2013 8:38 pm
Operator :
Sample : 1304328-007A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 28 Sample Multiplier: 1

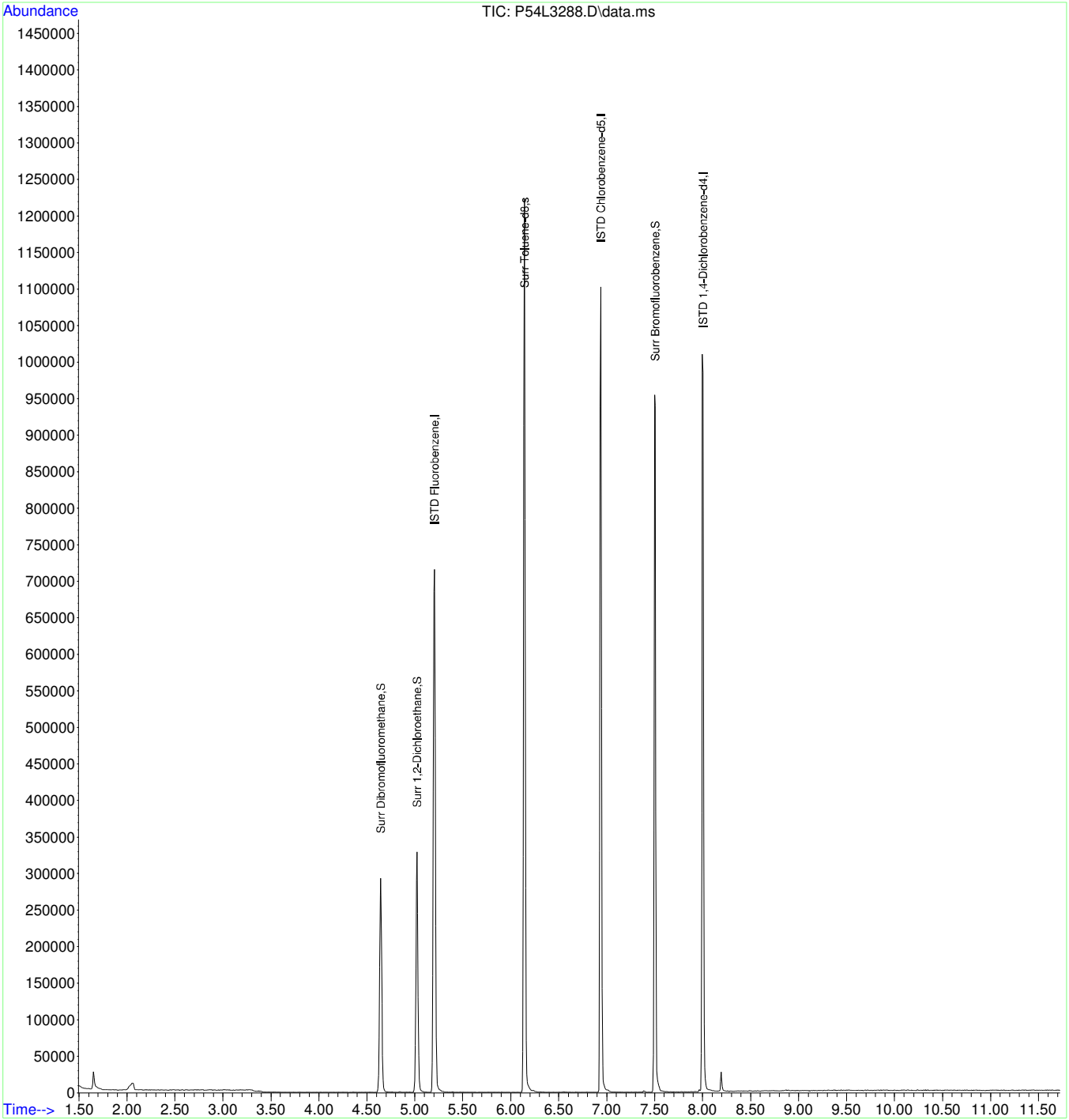
Quant Time: Apr 10 21:10:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P54L3288.D
Acq On : 10 Apr 2013 8:57 pm
Operator :
Sample : 1304328-008A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 29 Sample Multiplier: 1

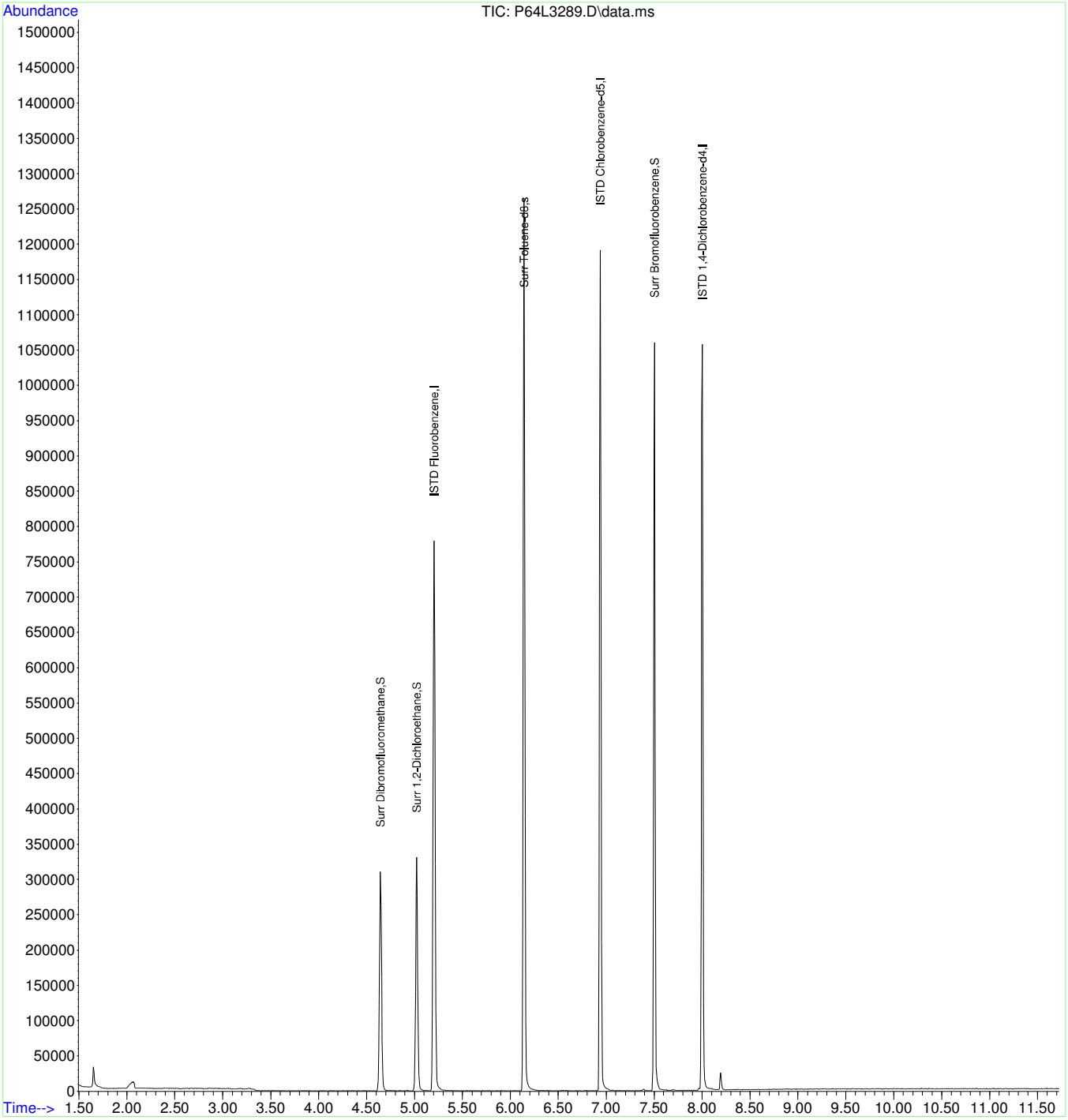
Quant Time: Apr 10 21:13:07 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P64L3289.D
Acq On : 11 Apr 2013 12:20 am
Operator :
Sample : 1304328-009A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 10 Sample Multiplier: 1

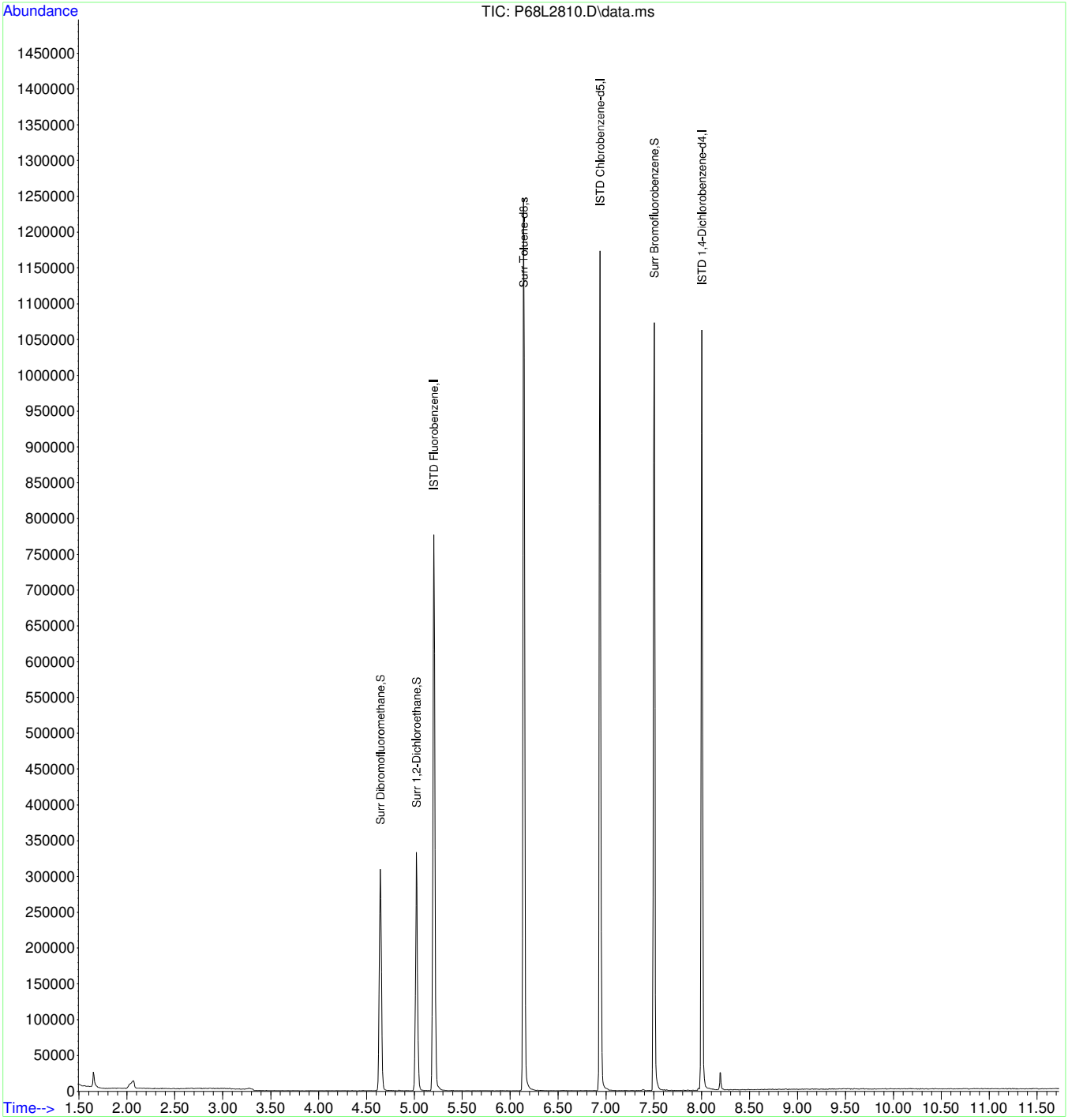
Quant Time: Apr 11 12:55:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P68L2810.D
Acq On : 11 Apr 2013 1:36 am
Operator :
Sample : 1304328-010A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 14 Sample Multiplier: 1

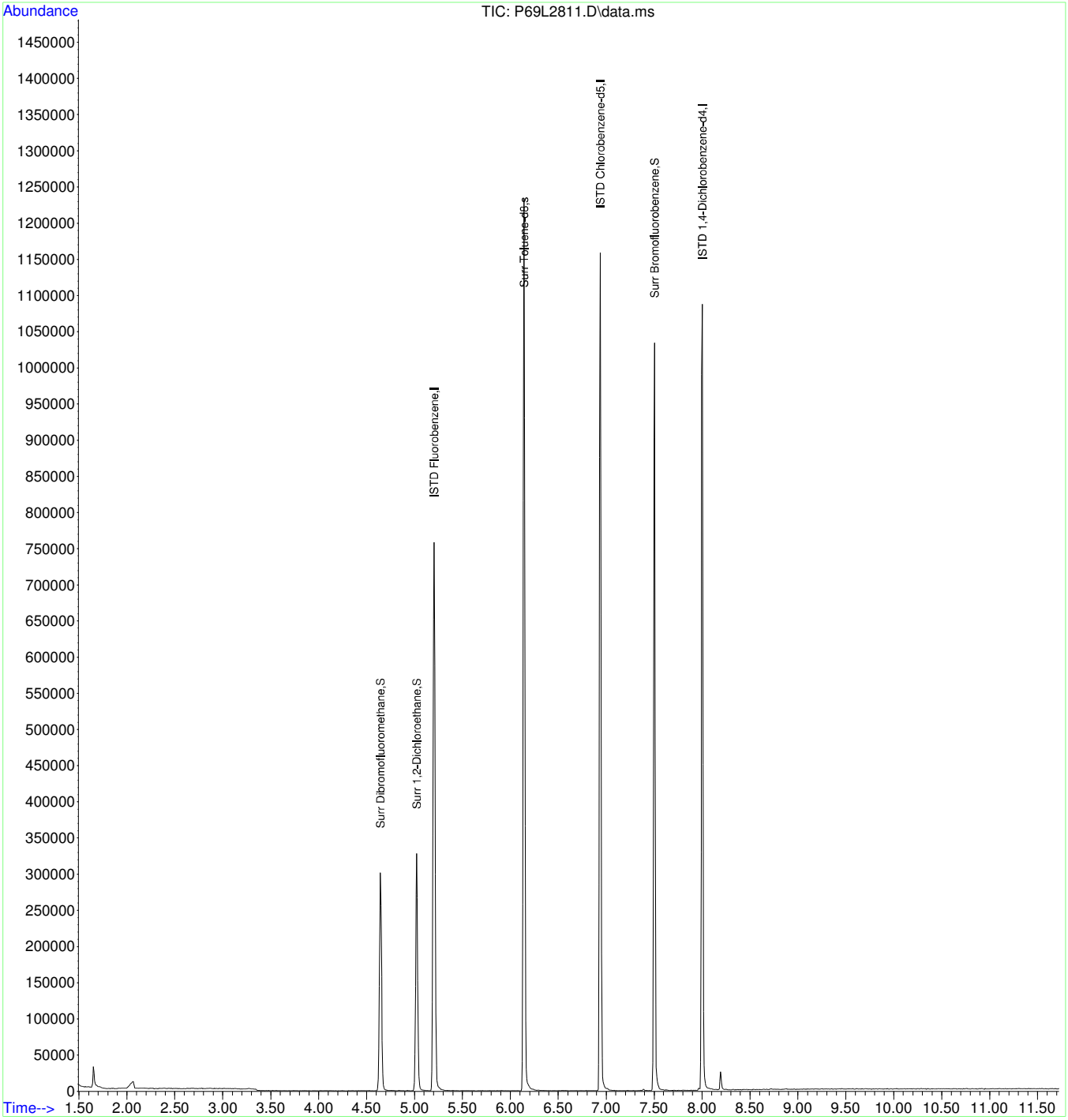
Quant Time: Apr 11 12:56:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P69L2811.D
Acq On : 11 Apr 2013 1:55 am
Operator :
Sample : 1304328-011A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 15 Sample Multiplier: 1

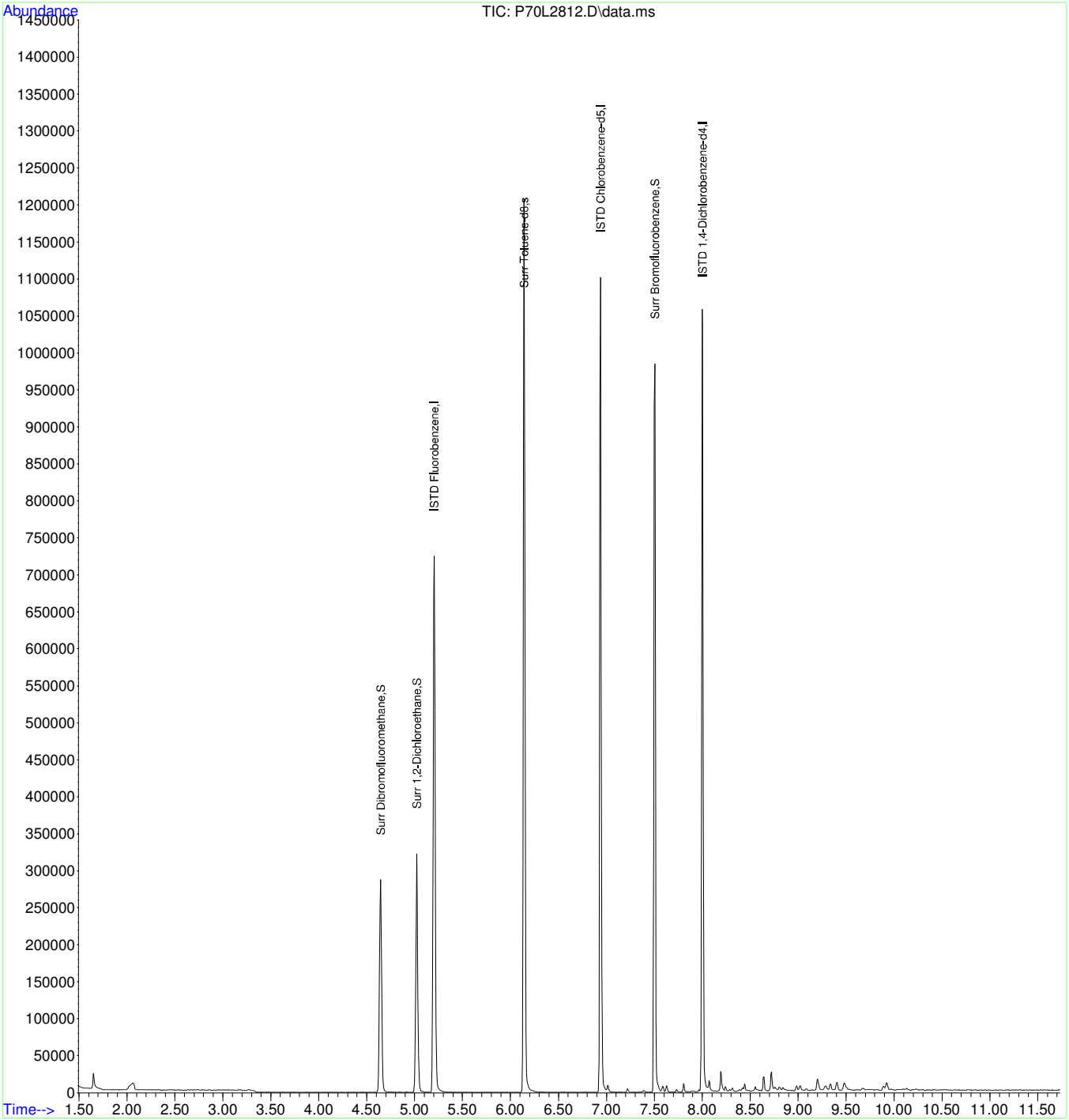
Quant Time: Apr 11 12:56:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P70L2812.D
Acq On : 11 Apr 2013 2:14 am
Operator :
Sample : 1304328-012A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 16 Sample Multiplier: 1

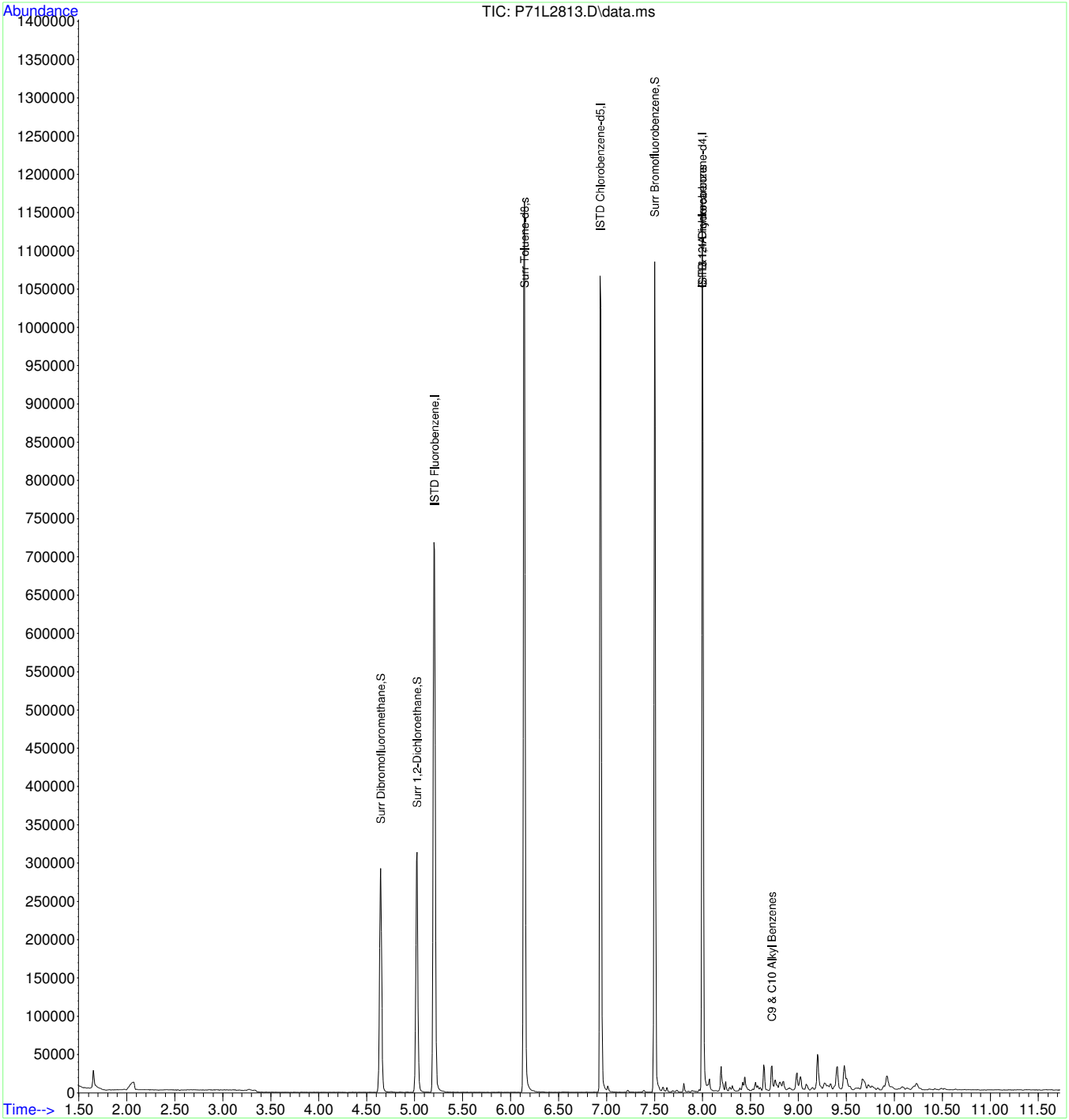
Quant Time: Apr 11 12:57:15 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P71L2813.D
Acq On : 11 Apr 2013 2:33 am
Operator :
Sample : 1304328-013A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 17 Sample Multiplier: 1

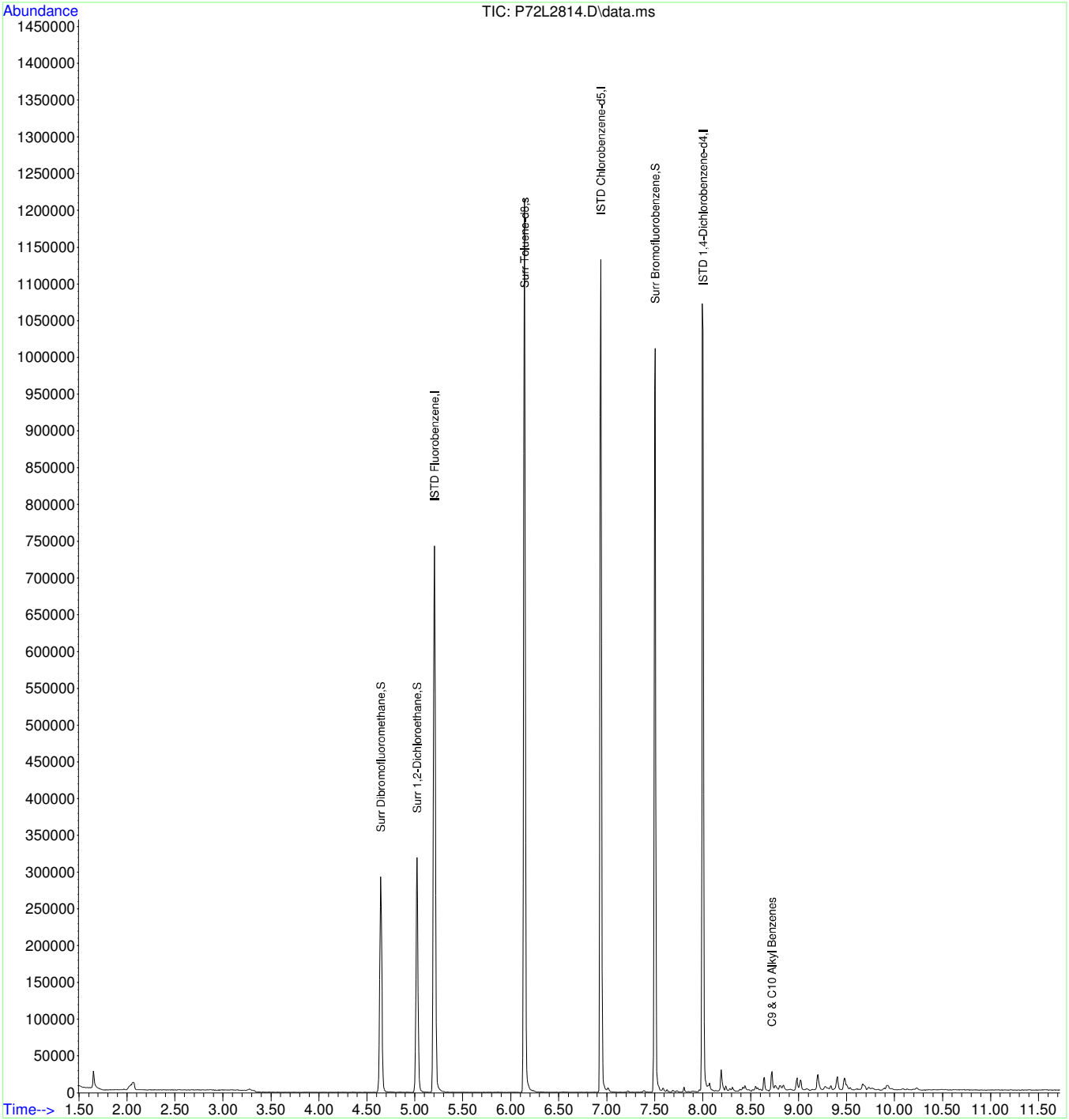
Quant Time: Apr 11 12:57:56 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P72L2814.D
Acq On : 11 Apr 2013 2:52 am
Operator :
Sample : 1304328-014A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 18 Sample Multiplier: 1

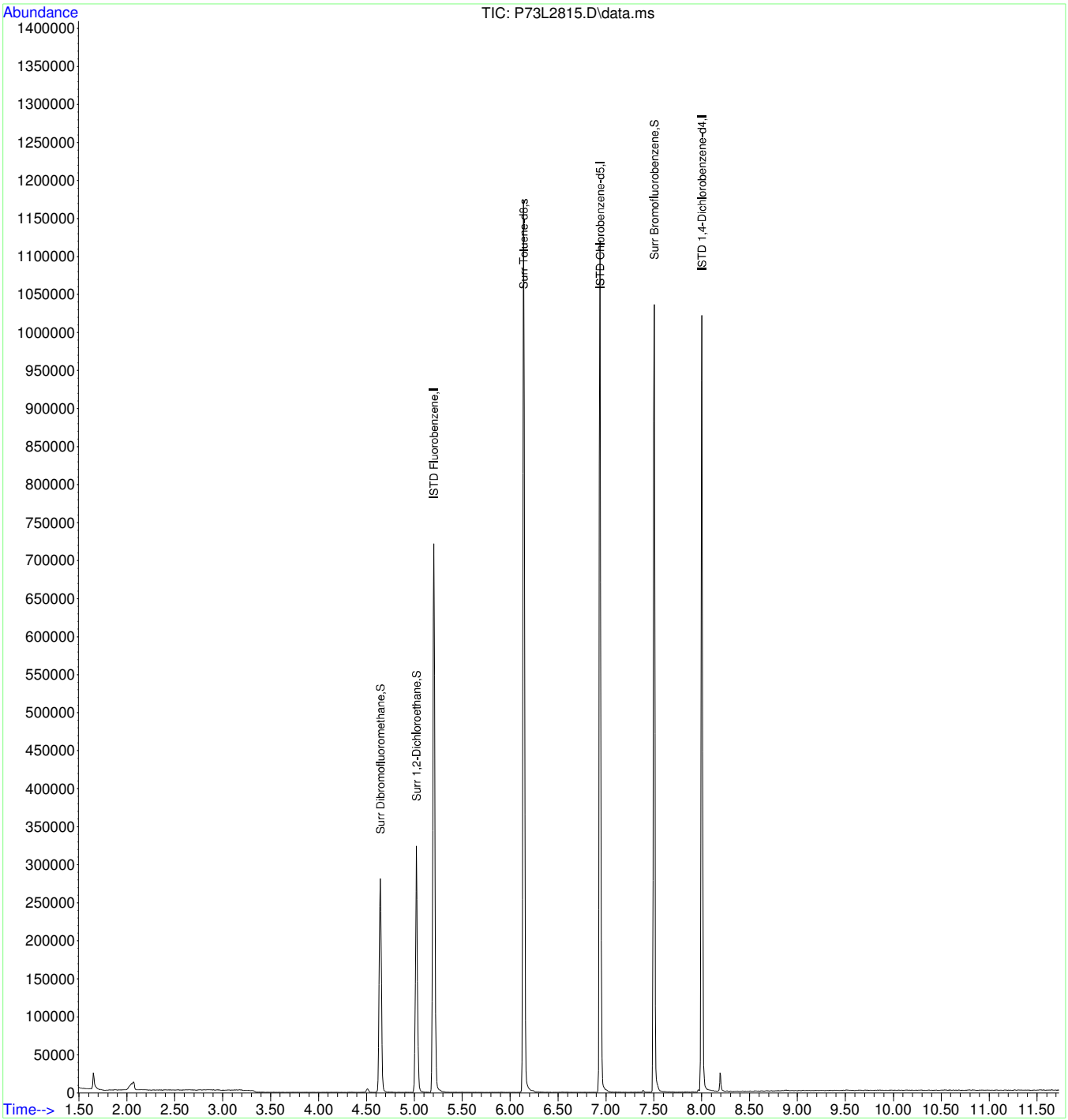
Quant Time: Apr 11 12:58:27 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P73L2815.D
Acq On : 11 Apr 2013 3:11 am
Operator :
Sample : 1304328-015A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 19 Sample Multiplier: 1

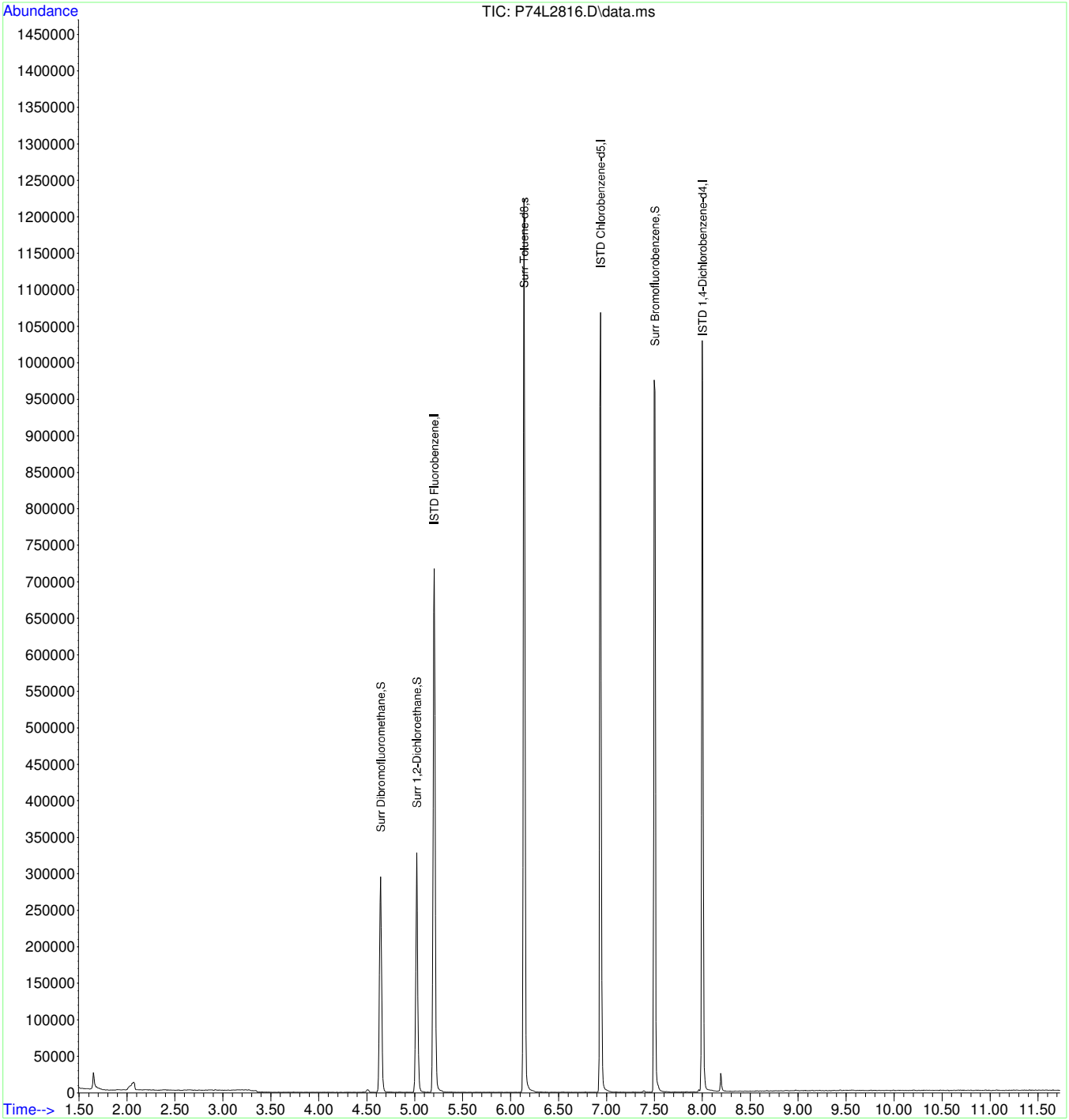
Quant Time: Apr 11 12:58:52 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P74L2816.D
Acq On : 11 Apr 2013 3:30 am
Operator :
Sample : 1304328-016A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 20 Sample Multiplier: 1

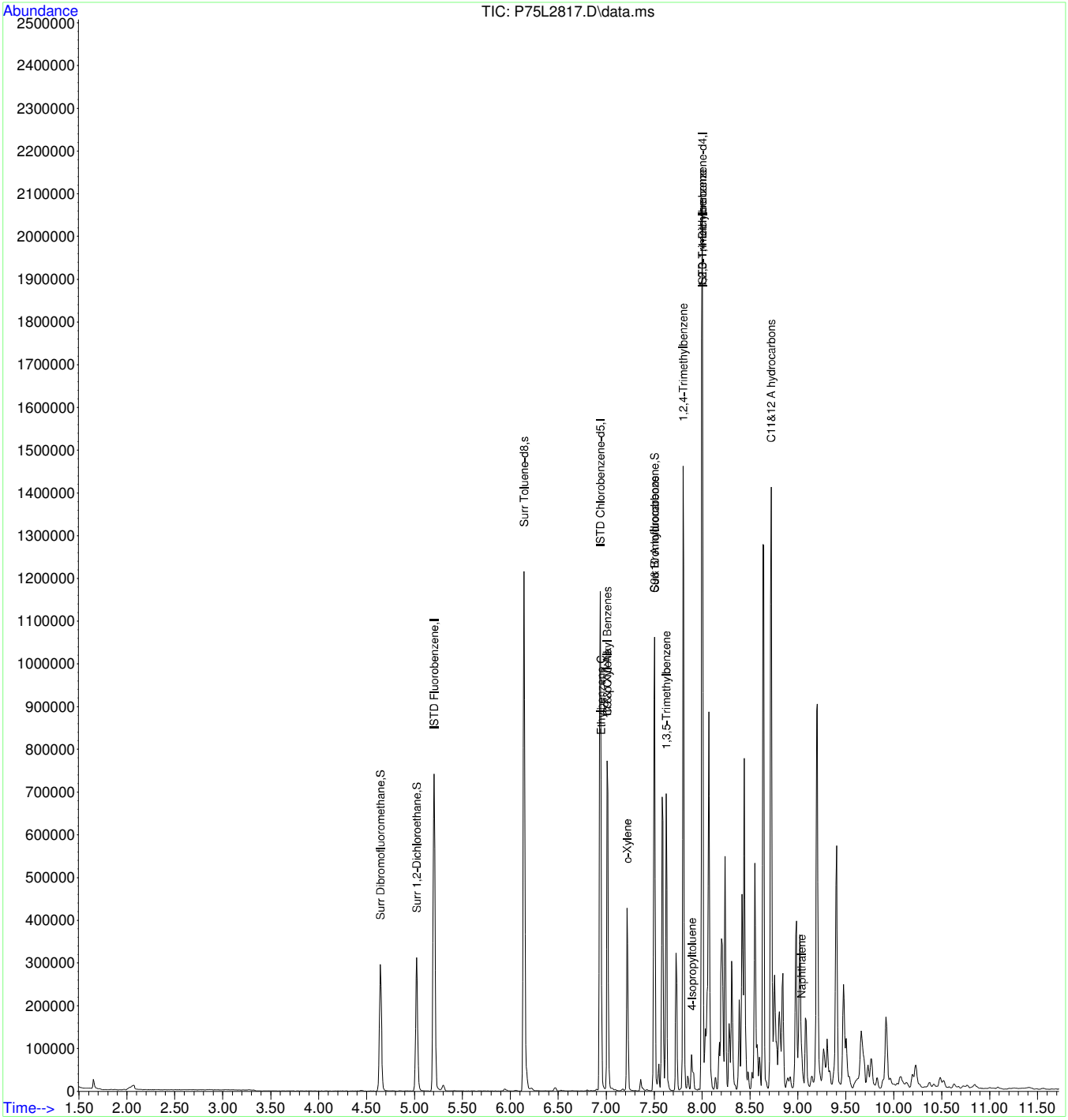
Quant Time: Apr 11 13:00:00 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P75L2817.D
Acq On : 11 Apr 2013 3:49 am
Operator :
Sample : 1304328-017A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 21 Sample Multiplier: 1

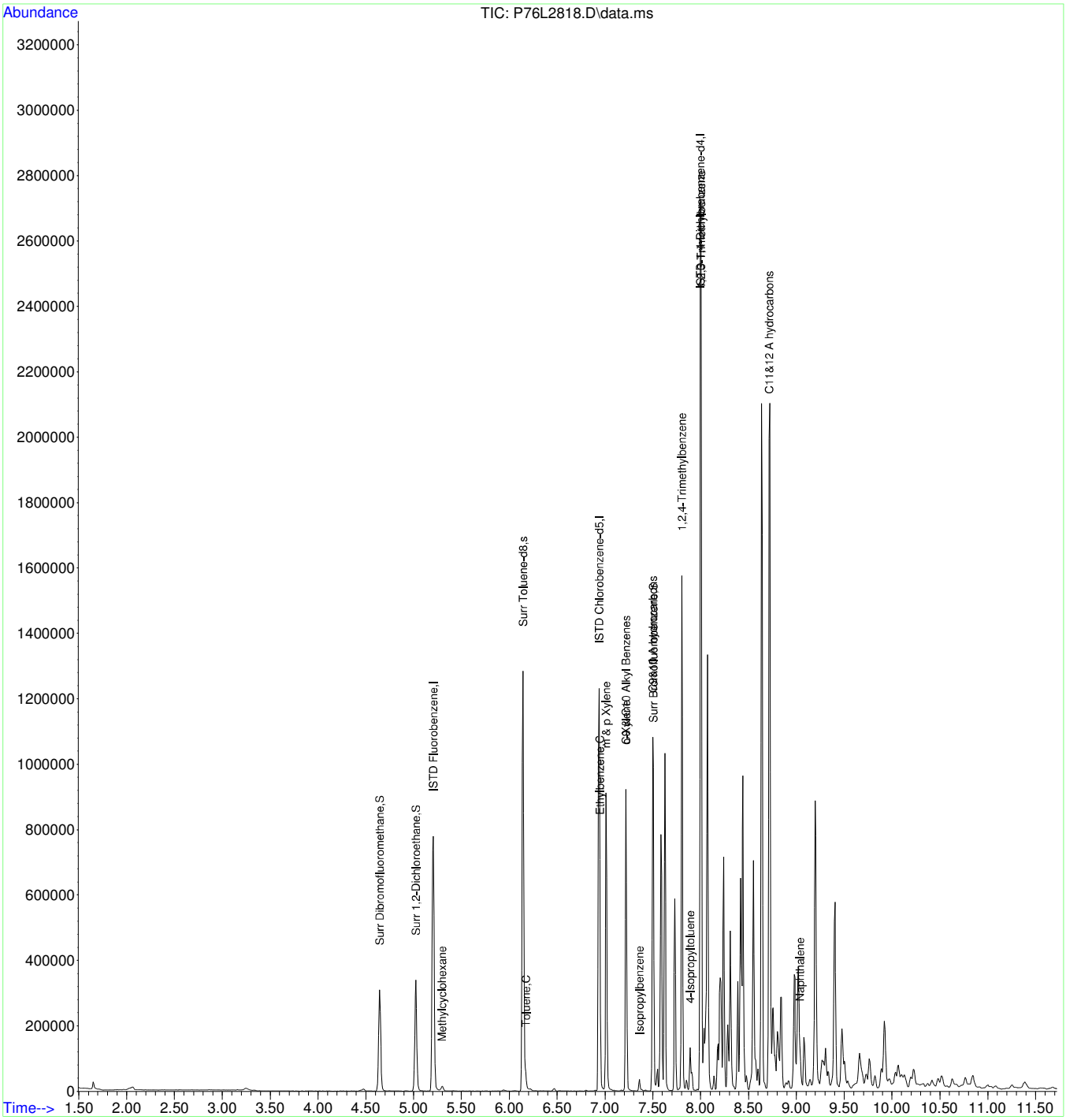
Quant Time: Apr 11 13:01:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P76L2818.D
Acq On : 11 Apr 2013 4:08 am
Operator :
Sample : 1304328-018A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Apr 11 13:04:29 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration

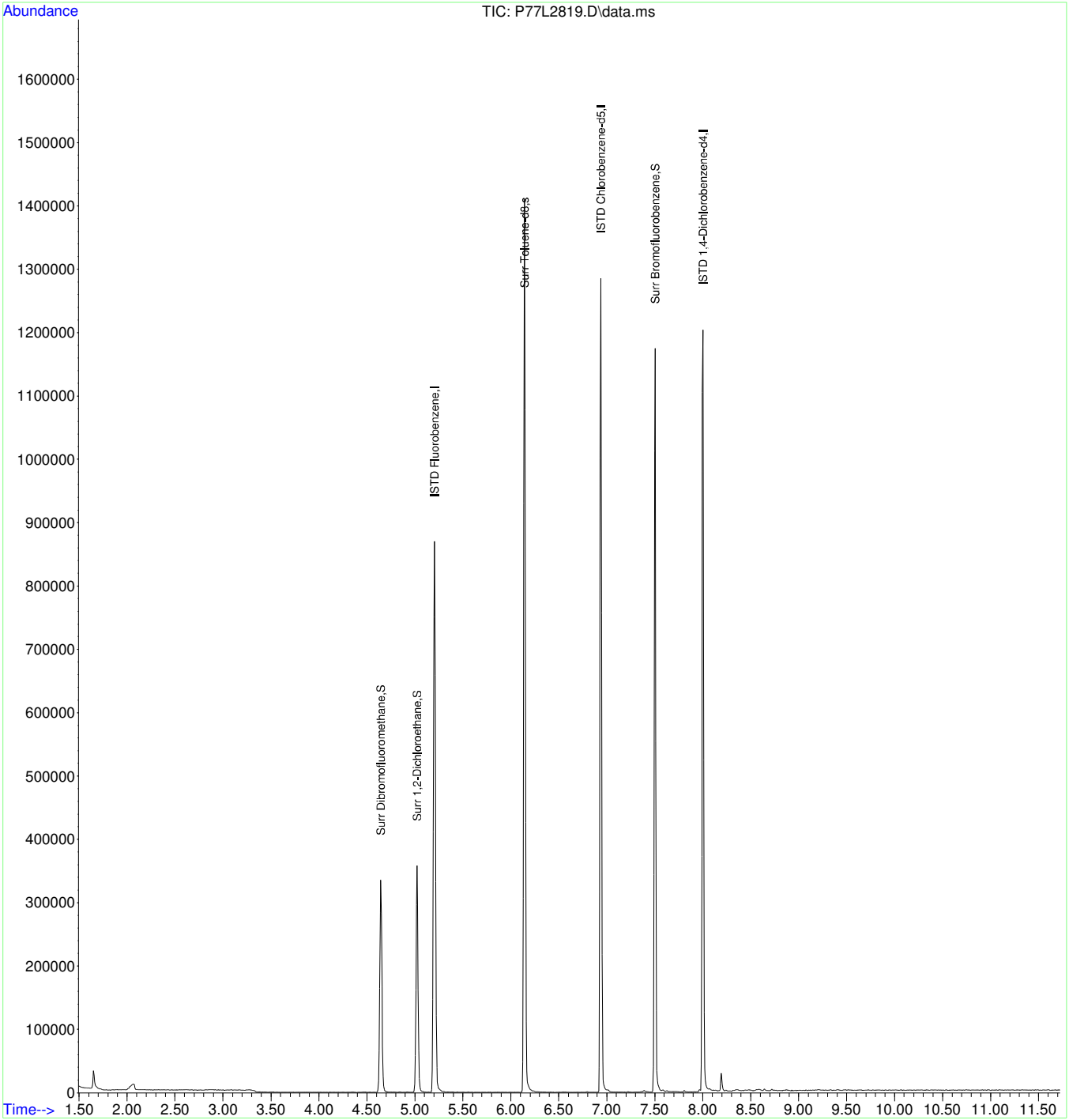


AFULLW_79.M Thu Apr 11 13:47:54 2013 Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P77L2819.D
Acq On : 11 Apr 2013 4:27 am
Operator :
Sample : 1304328-019A
Misc : SAMP 5.0ML 1OF3 AAP
ALS Vial : 23 Sample Multiplier: 1

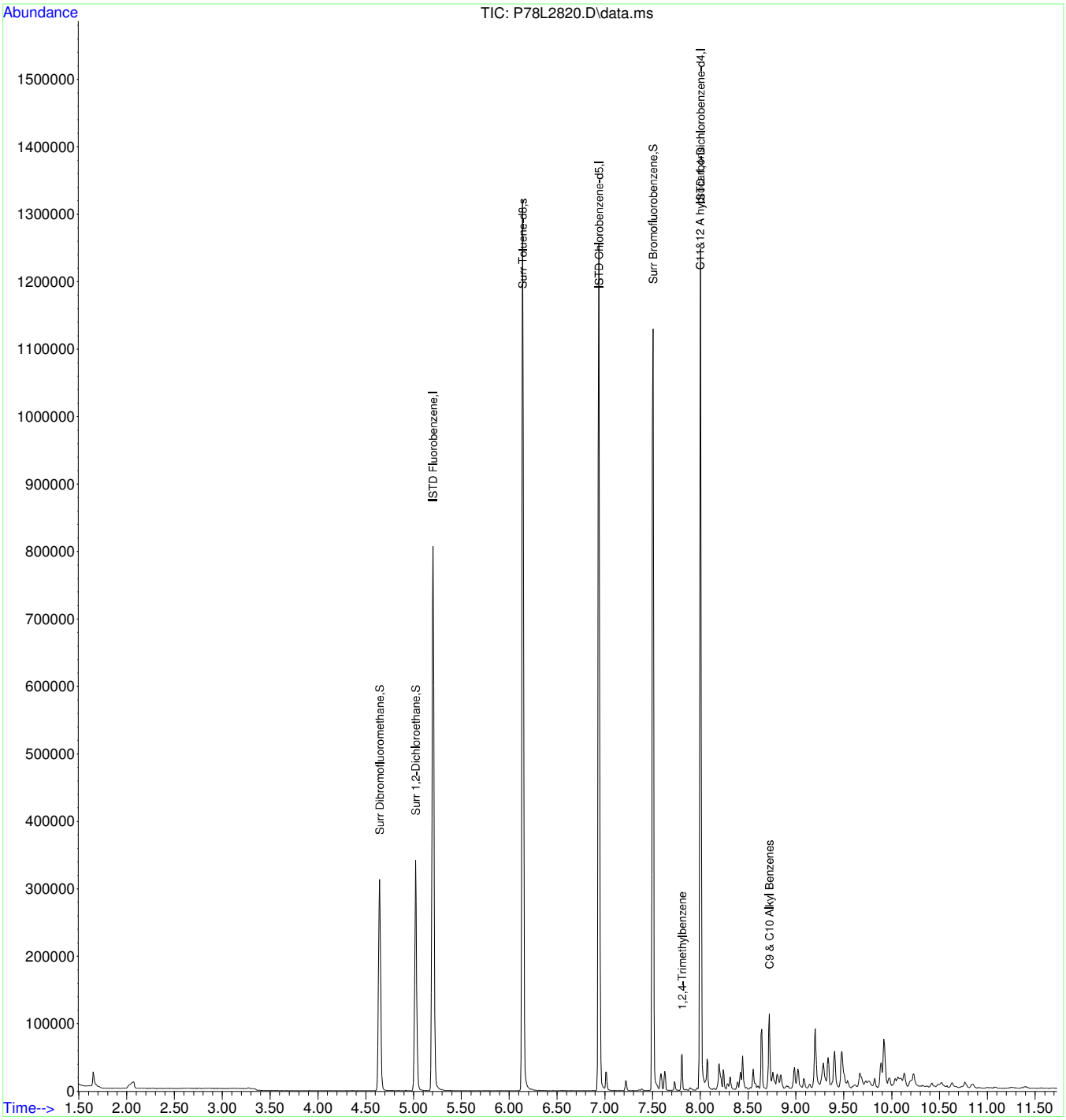
Quant Time: Apr 11 13:06:08 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P78L2820.D
Acq On : 11 Apr 2013 4:46 am
Operator :
Sample : 1304328-020A
Misc : SAMP 5.0ML 1OF2 AAP
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Apr 11 13:07:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (Not Reviewed)

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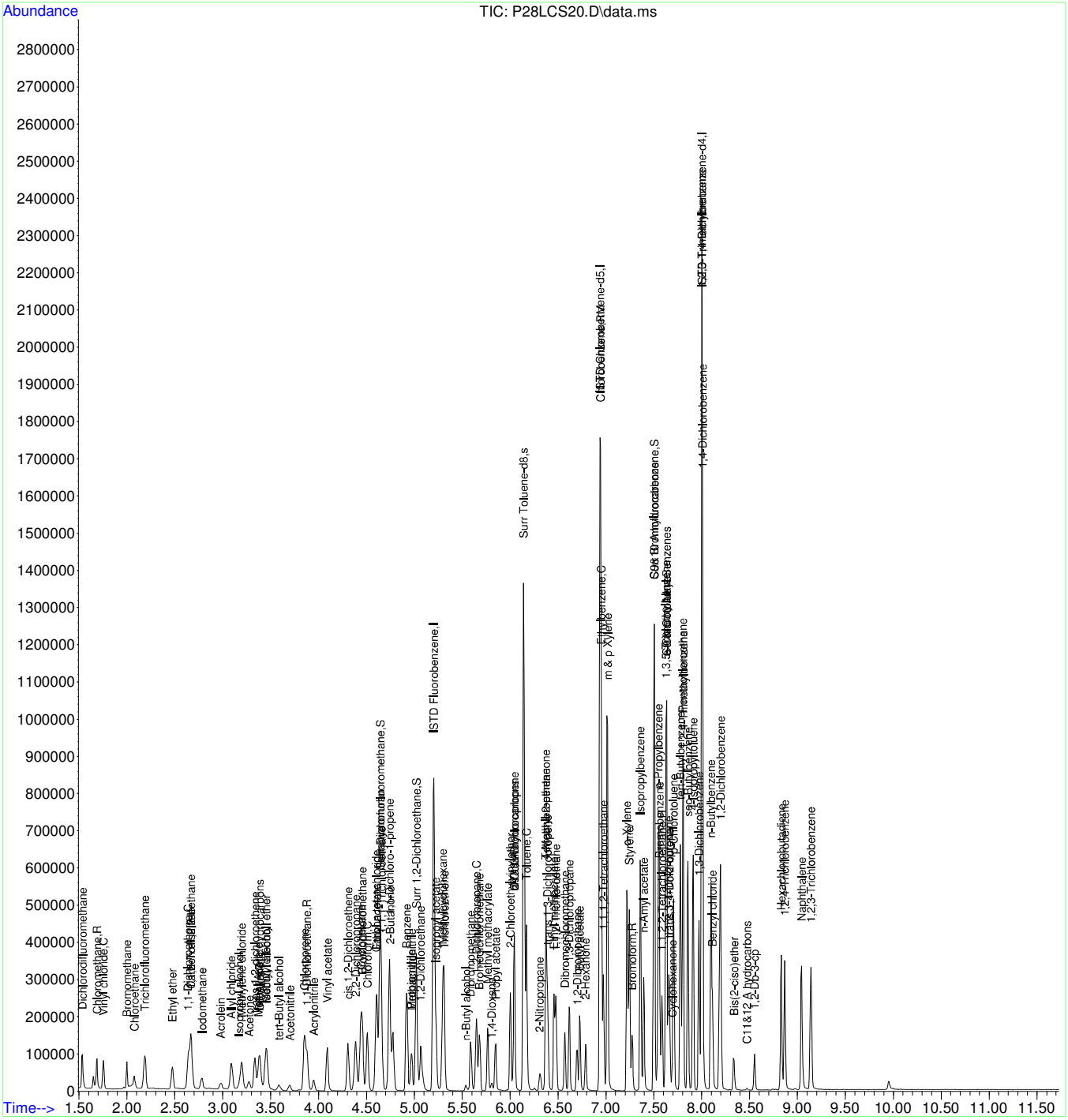
Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P28LCS20.D
Acq On    : 10 Apr 2013  12:07 pm
Operator  :
Sample    : LCS VOC 041013A
Misc      : LCS    SEE COVERSHEET FOR ID AND AMOUNT SB
ALS Vial  : 3   Sample Multiplier: 1

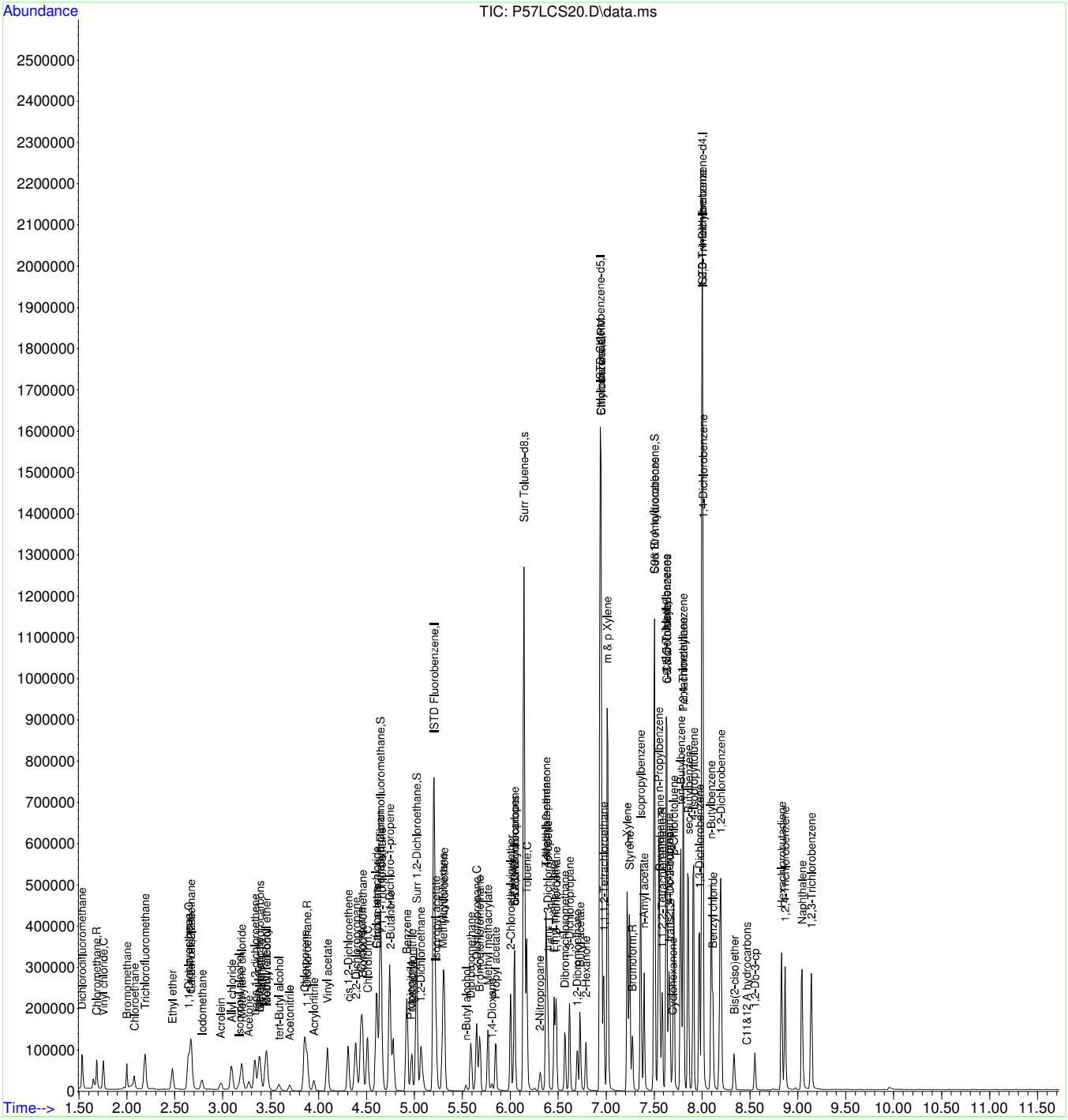
Quant Time: Apr 10 12:19:12 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title  : VOA  Calibration
QLast Update : Wed Apr 10 10:16:12 2013
Response via : Initial Calibration
```



Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P57LCS20.D
Acq On : 10 Apr 2013 10:07 pm
Operator :
Sample : LCS VOC 041013B
Misc : LCS SEE COVERSHEET FOR ID AND AMOUNT AAP
ALS Vial : 3 Sample Multiplier: 1

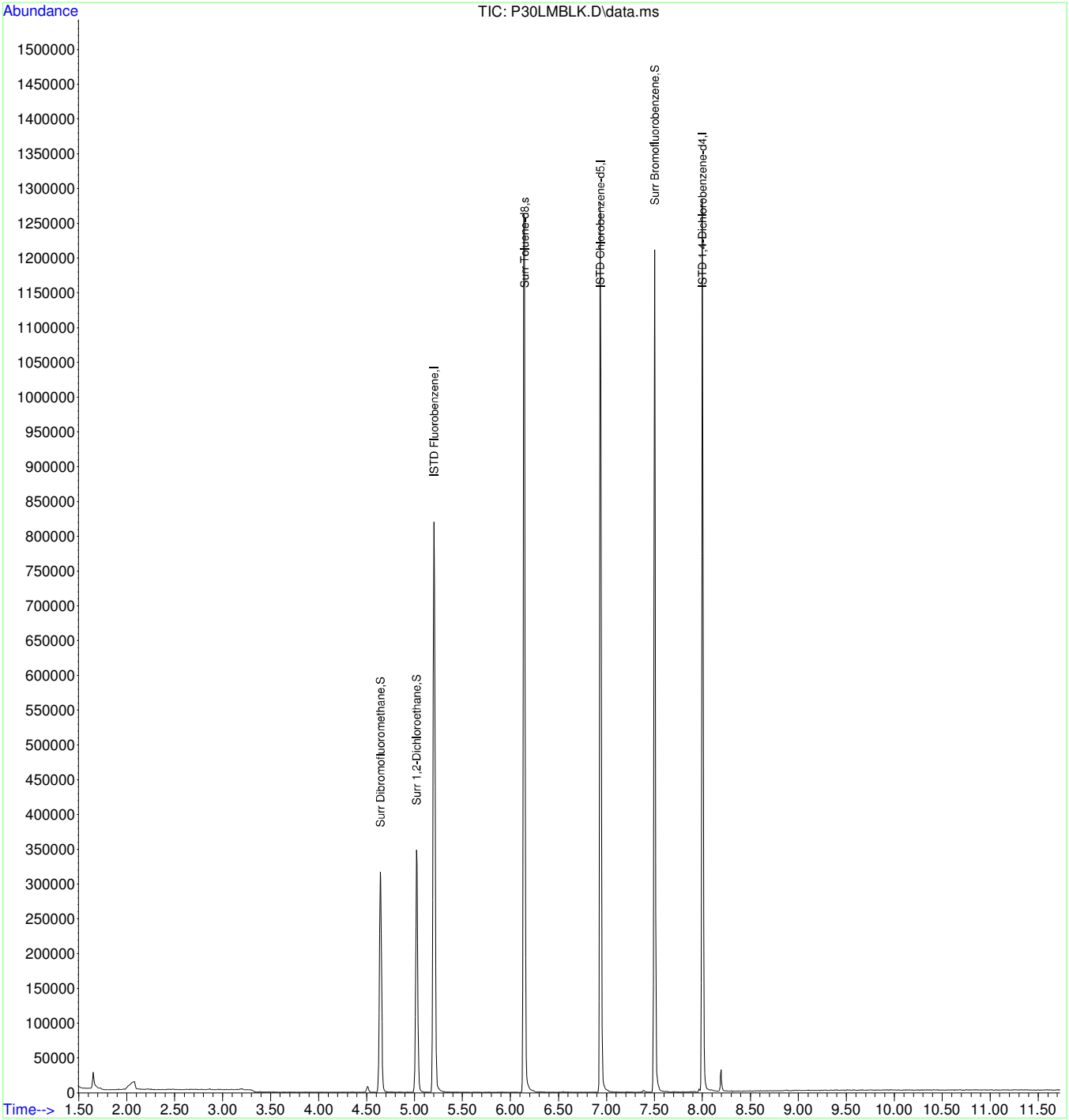
Quant Time: Apr 10 22:19:25 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P30LMBLK.D
Acq On : 10 Apr 2013 12:45 pm
Operator :
Sample : MB VOC 041013A
Misc : MBLK 5.0ML SB
ALS Vial : 5 Sample Multiplier: 1

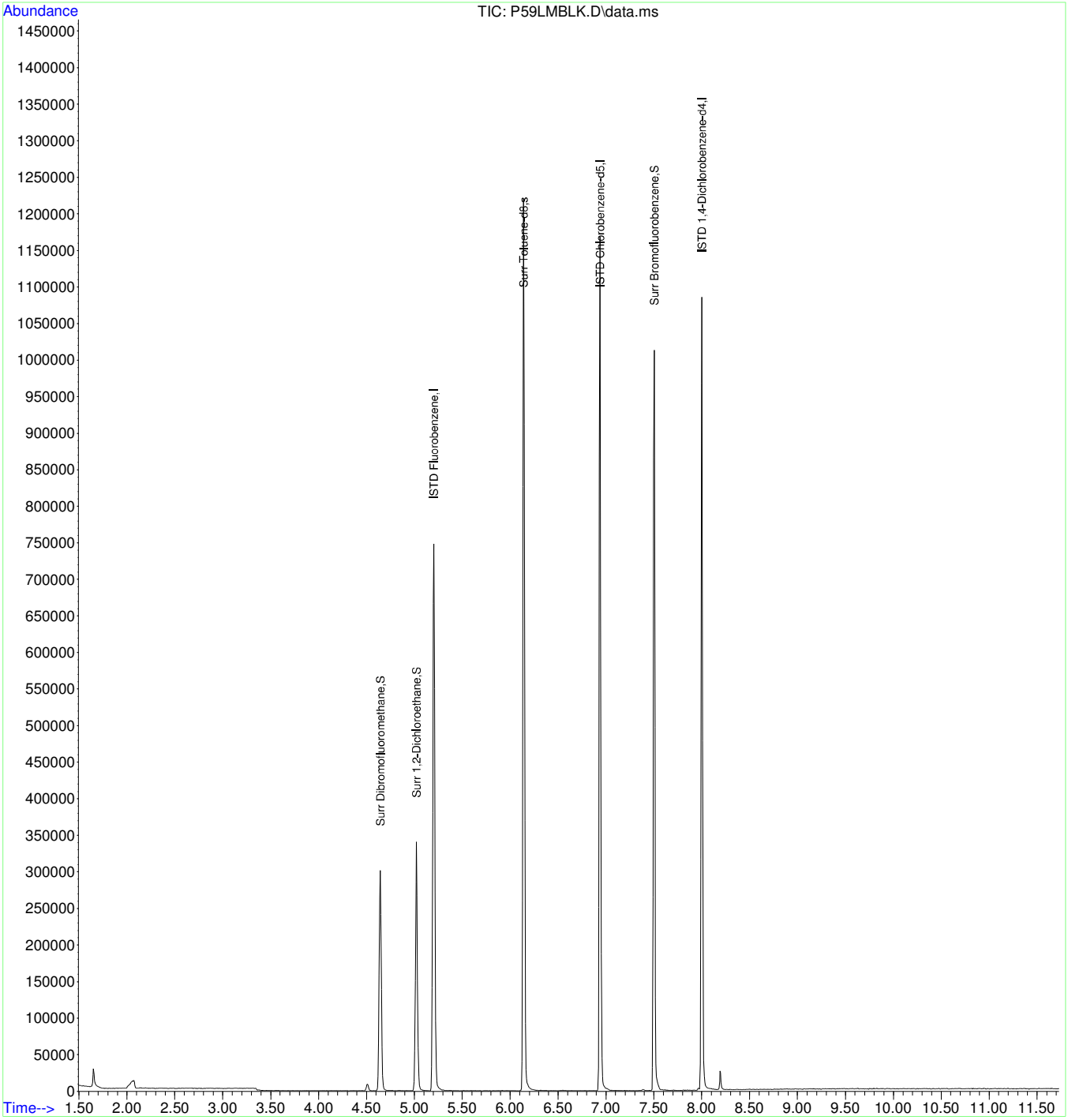
Quant Time: Apr 10 14:30:21 2013
Quant Method : C:\msdchem\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P59LMBLK.D
Acq On : 10 Apr 2013 10:45 pm
Operator :
Sample : MB VOC 041013B
Misc : MBLK 5.0ML AAP
ALS Vial : 5 Sample Multiplier: 1

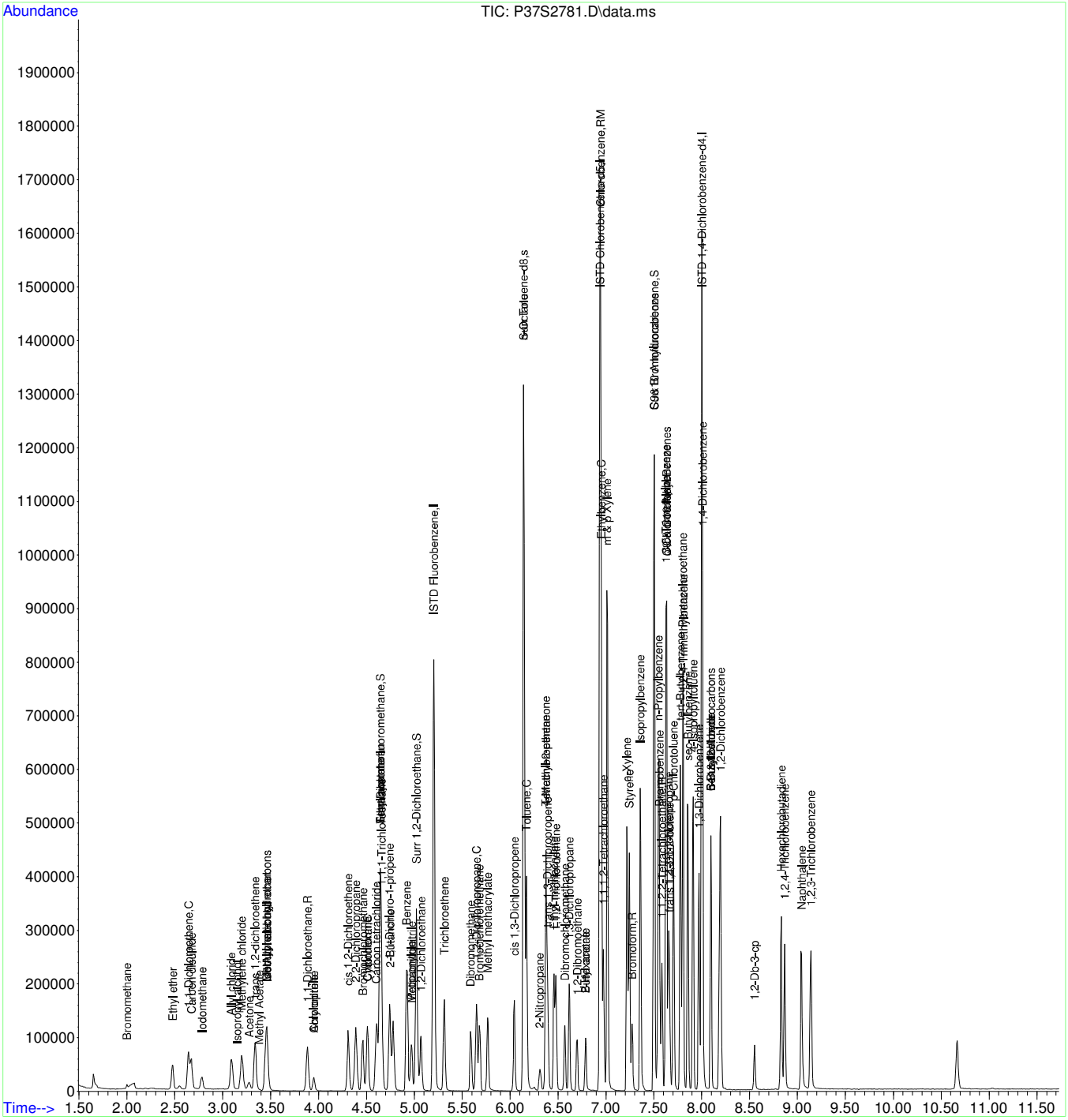
Quant Time: Apr 11 12:52:46 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P37S2781.D
Acq On : 10 Apr 2013 2:58 pm
Operator :
Sample : 1304278-001AMS
Misc : MS 5.0ML 2OF3 SB
ALS Vial : 12 Sample Multiplier: 1

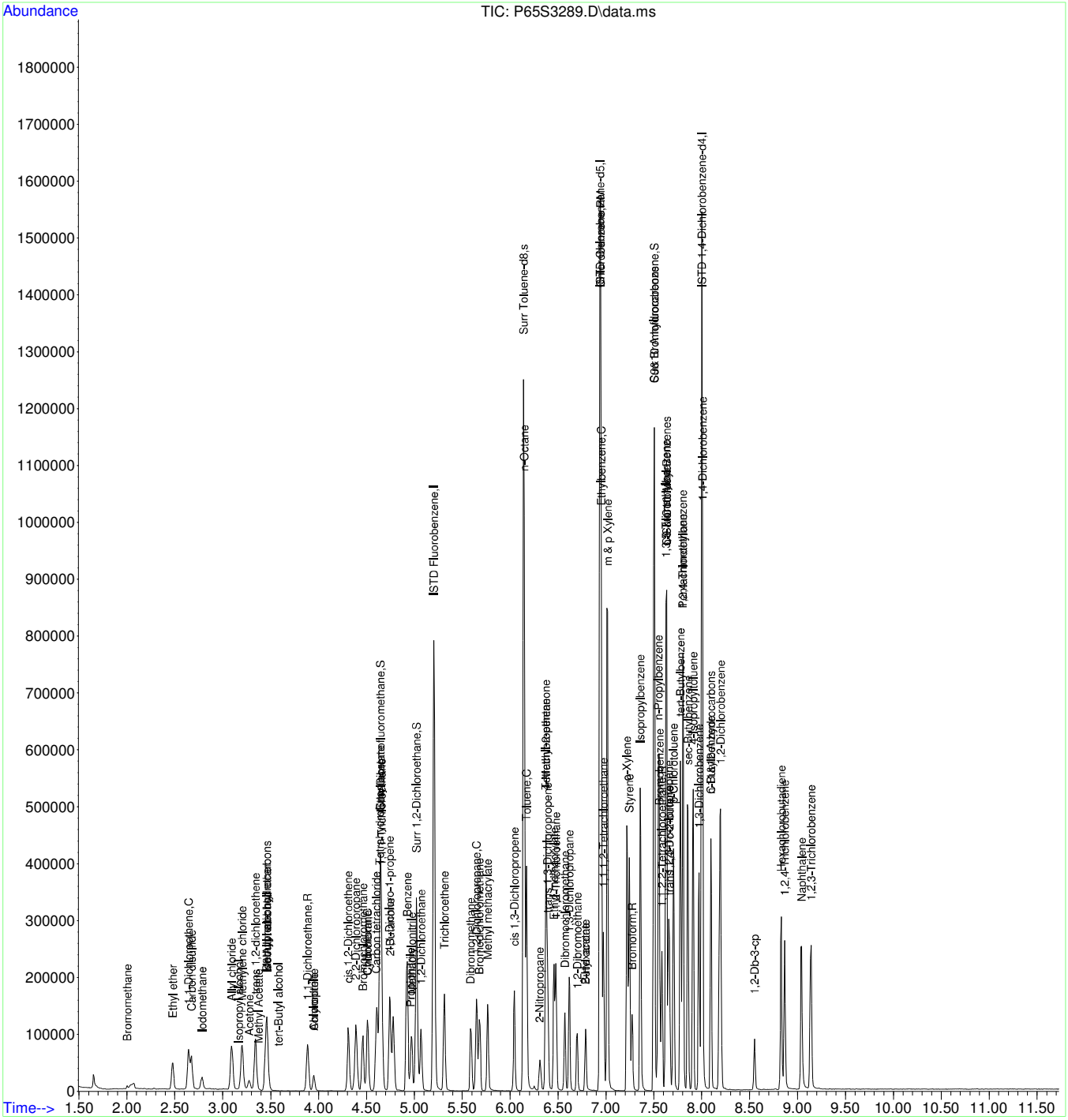
Quant Time: Apr 10 15:10:22 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 10:16:12 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P65S3289.D
Acq On    : 11 Apr 2013  12:39 am
Operator  :
Sample    : 1304328-009AMS
Misc      : MS        5.0ML   2OF3   AAP
ALS Vial  : 11   Sample Multiplier: 1

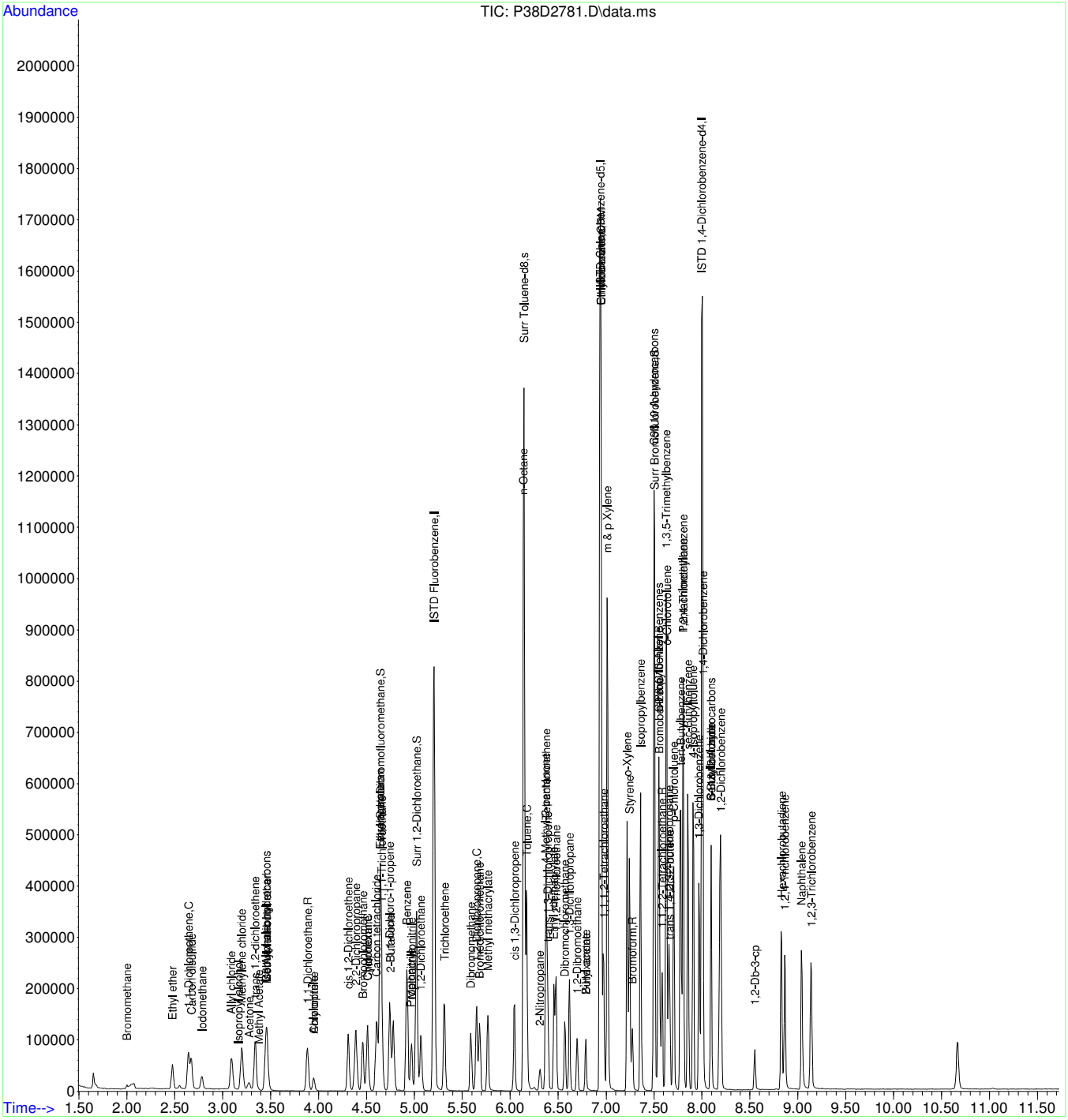
Quant Time: Apr 11 00:51:23 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title  : VOA  Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration
```



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P38D2781.D
Acq On : 10 Apr 2013 3:17 pm
Operator :
Sample : 1304278-001AMSD
Misc : MSD 5.0ML 3OF3 SB
ALS Vial : 13 Sample Multiplier: 1

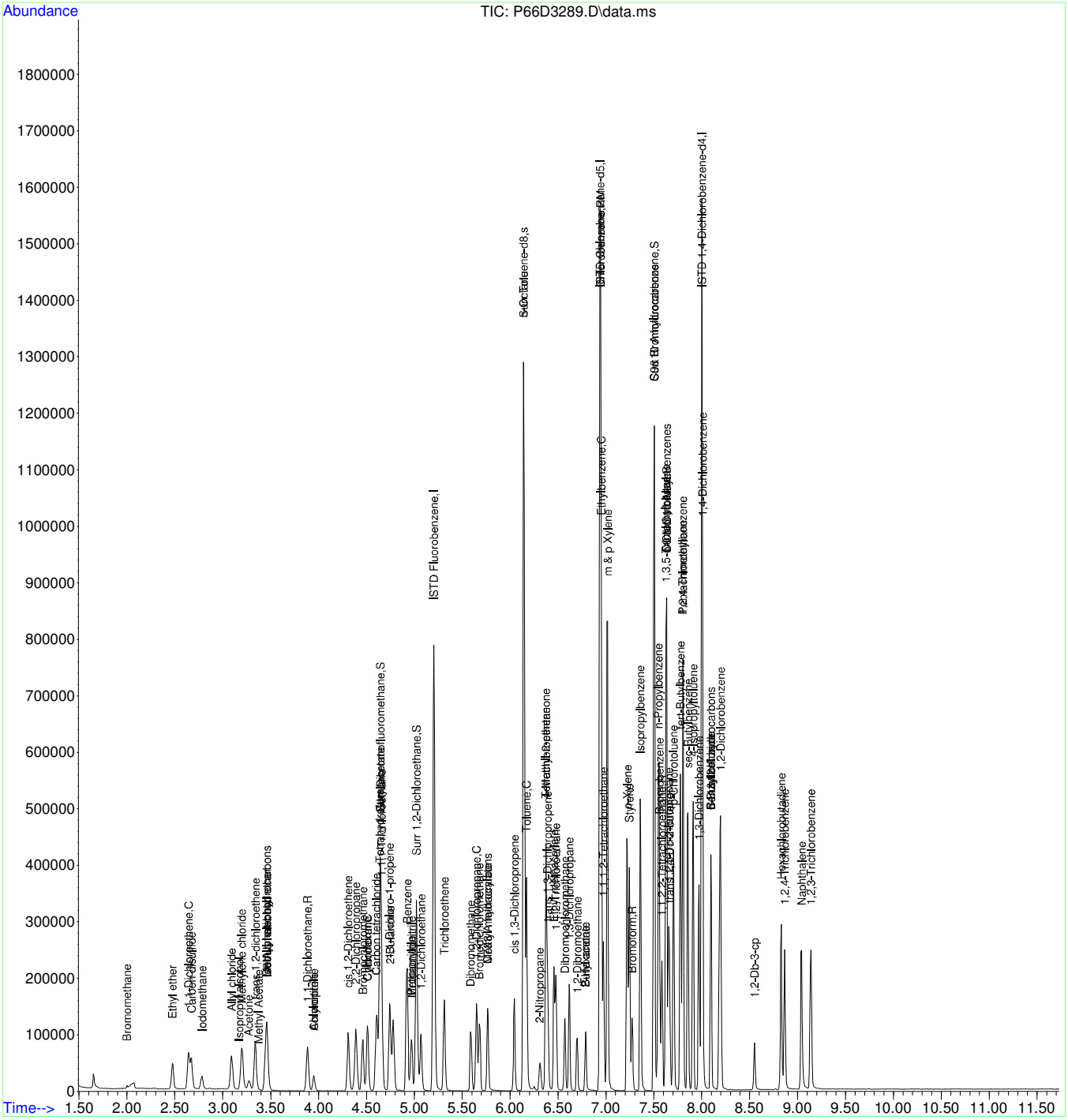
Quant Time: Apr 10 15:29:05 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 10:16:12 2013
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\APR13-C\10APR13\
Data File : P66D3289.D
Acq On : 11 Apr 2013 12:58 am
Operator :
Sample : 1304328-009AMSD
Misc : MSD 5.0ML 3OF3 AAP
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 11 01:10:28 2013
Quant Method : C:\MSDCHEM\1\METHODS\AFULLW_79.M
Quant Title : VOA Calibration
QLast Update : Wed Apr 10 14:19:48 2013
Response via : Initial Calibration



American West Analytical Laboratories

RUSH

D

WORK ORDER Summary

Work Order: **1304328**

Due Date: 4/11/2013

Client: Utah Division of Water Quality

Client ID: UTD200

Contact: Chris Bittner

Project: **MP 44.9**

QC Level: III

WO Type: Standard

Comments: Next Day Rush. QC 3. Include TICs on SVOC only. Send partial reports as results become available. Bill accordingly.;

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304328-001A	**East of I-15 / 4920392**	4/10/2013 0800h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-001B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-001C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-002A	**S. Marina / 4920495**	4/10/2013 0830h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-002B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-002C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-003A	**50' from N. Boom / 4920508**	4/10/2013 0940h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-003B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-003C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-004A	**North Boom / 4920397**	4/10/2013 0950h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-004B				**3510-SVOA-PR**		☐	Walkin-Semi	2

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WORK ORDER Summary

Work Order: **1304328**

Client: Utah Division of Water Quality

Due Date: 4/11/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304328-004B	**North Boom / 4920397**	4/10/2013 0950h	4/10/2013 1635h	**8270-W**	Aqueous	☑	Walkin-Semi	2
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-004C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-005A	**W. Boom 5 / 4920499**	4/10/2013 1000h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-005B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-005C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-006A	**W. Boom 4 / 4920498**	4/10/2013 1010h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-006B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-006C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-007A	**50' from WB4 / 4920502**	4/10/2013 1020h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-007B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-007C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-008A	**W. Boom 3 / 4920497**	4/10/2013 1030h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-008B				**3510-SVOA-PR**		☐	Walkin-Semi	2

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WORK ORDER Summary

Work Order: **1304328**

Client: Utah Division of Water Quality

Due Date: 4/11/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304328-008B	**W. Boom 3 / 4920497**	4/10/2013 1030h	4/10/2013 1635h	**8270-W**	Aqueous	☑	Walkin-Semi	2
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-008C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-009A	**W. Boom 2 / 4920496**	4/10/2013 1040h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-009B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-009C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-010A	**50' from WB1 / 4920505**	4/10/2013 1050h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-010B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-010C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-011A	**W. Boom 1 / 4920396**	4/10/2013 1100h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-011B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-011C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-012A	**East of Boom / 4920395**	4/10/2013 1120h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-012B				**3510-SVOA-PR**		☐	Walkin-Semi	2

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WORK ORDER Summary

Work Order: **1304328**

Client: Utah Division of Water Quality

Due Date: 4/12/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304328-012B	**East of Boom / 4920395**	4/10/2013 1120h	4/10/2013 1635h	**8270-W**	Aqueous	☑	Walkin-Semi	2
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-012C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-013A	**Between Weirs / 4920394**	4/10/2013 1130h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-013B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-013C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-014A	**Between Weirs Dup / 4920394**	4/10/2013 1135h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-014B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-014C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-015A	**Field Blank**	4/10/2013 1230h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-016A	**Trip Blank**	4/10/2013	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-017A	**French Drain South / 4920398**	4/10/2013 1200h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-017B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-017C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	

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WORK ORDER Summary

Client: Utah Division of Water Quality

Work Order: **1304328**

Due Date: 4/12/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304328-017C	**French Drain South / 4920398**	4/10/2013 1200h	4/10/2013 1635h	**8015-W-TPH(1L)**	Aqueous	☑	Walkin-TPH (Liters)	2
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-018A	**French Drain North / 4920399**	4/10/2013 1210h	4/10/2013 1603h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-018B			4/10/2013 1635h	**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-018C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-019A	**East of Boom #3 / 4920400**	4/10/2013 1220h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-019B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-019C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-020A	**Below Weirs AB Res**	4/10/2013 1125h	4/10/2013 1635h	**8260-W**	Aqueous	☑	VOCFridge	3
				Test Group: 8260-W-Full; # of Analytes: 103 / # of Surr: 4				
1304328-020B				**3510-SVOA-PR**		☐	Walkin-Semi	2
				8270-W		☑	Walkin-Semi	
				Test Group: 8270-W-Custom; # of Analytes: 138 / # of Surr: 6				
				8270-W-SIM		☑	Walkin-Semi	
				Test Group: 8270-W-PNA-SIM; # of Analytes: 19 / # of Surr:				
1304328-020C				**3510-TPH-PR**		☐	Walkin-TPH (Liters)	
				8015-W-TPH(1L)		☑	Walkin-TPH (Liters)	
				Test Group: 8015-W-TPH1L; # of Analytes: 1 / # of Surr: 1				
1304328-020D				**BOD-5210B**		☐	ww - bod/tss/tds	1
				BOD-PR		☐	ww - bod/tss/tds	
				TDS-W-2540C		☐	ww - bod/tss/tds	
				TSS-W-2540D		☐	ww - bod/tss/tds	
1304328-020E				**COD-HACH8000**		☐	ww - cod	
1304328-020F				**NO2/NO3-W-353.2**		☑	df - nutrients	
				PO4-W-4500PF		☐	df - nutrients	
				PO4-W-PR		☐	df - nutrients	

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WORK ORDER Summary

Work Order: **1304328**

Client: Utah Division of Water Quality

Due Date: 4/11/2013

Sample ID	Client Sample ID	Collected Date	Received Date	Test Code	Matrix	Sel	Storage	
1304328-020F	**Below Weirs AB Res**	4/10/2013 1125h	4/10/2013 1635h	**TKN-W-351.2**	Aqueous	☑	df - nutrients	1
				1 SEL Analytes:				
				TKN-W-PR		☐	df - nutrients	
				TOTAL-NITROGEN		☐	df - nutrients	

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American West Analytical Laboratories

Chain of Custody

Lab Sample Set # 1304328

Client: **Utah Division of Water Quality**
Address: **195 N. 1950 W.**
Salt Lake City, UT 84115
Project Name: **MP 44.9**
PO#:

Contact: **Chris Bittner**
Phone: **(801) 536-3600**
Fax :
Email: **cbittner@utah.gov**

QC Level: **3**
Turn Around Time
NEXT DAY RUSH

	Sample ID:		Date Sampled	Time	# of Containers	Sample Matrix	VOC's (8260C)	Full SVOC - w/ TICs (8270D)	PNA SVOC - SIM (8270D)	DRO (8015D)	BOD TDS TSS	COD	T-N T-KN T-P	Comments
1	East of I-15	4920392	4/10/13	8:00	7	w	X	X	X	X				
2	S. Marina	4920495	4/10/13	8:30	7	w								
3	50' from N. Boom	4920508	4/10/13	9:40	7	w								
4	North Boom	4920397	4/10/13	9:50	7	w								
5	W. Boom 5	4920499	4/10/13	10:00	7	w								
6	W. Boom 4	4920498	4/10/13	10:10	7	w								
7	50' from WB4	4920502	4/10/13	10:20	7	w								
8	W. Boom 3	4920497	4/10/13	10:30	7	w								
9	W. Boom 2	4920496	4/10/13	10:40	7	w								
10	50' from WB1	4920505	4/10/13	10:50	7	w								
11	W. Boom 1	4920396	4/10/13	11:00	7	w								
12	East of Boom	4920395		11:20	7	w								
13	Between Weirs	4920394		11:30	7	w								
14	Between Weirs Dup	4920394		11:35	7	w								
15	Field Blank			12:30	3	w	X							
16	Trip Blank				3	w	X							
17	French Drain South	4920398		12:00	7	w	X	X	X	X				
18	French Drain North	4920399		12:10	7	w	X	X	X	X				
19	East of Boom #3	4920400		12:20	7	w	X	X	X	X				
20	Below Weirs at Res			11:25	7	w	X	X	X	X	X	X	X	

Laboratory Use Only

Samples Were:
1 Shipped or hand delivered
2 Ambient or Chilled
3 Temperature 2-8
4 Received Broken/Leaking (Improperly Sealed) Y N
5 Properly Preserved Y N ~~Not preserved~~
6 Received Within Holding Times 4/14/13 Y N

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N

Special Instructions: **Release results as they become available**

Relinquished by: Signature	Date: 4/10/13	Received by: Signature	Date: 4-10-13
Print Name: Alex Anderson	Time: 16:35	Print Name: Selena Hayland	Time: 1635
Relinquished by: Signature	Date:	Received by: Signature	Date:
Print Name	Time:	Print Name	Time:

Sample Set: 1304328

Preservation Check Sheet

Sample Set Extension and pH

Bottle Type	Preservative	All OK	~~Except~~ 20	~~Except~~	~~Except~~	~~Except~~	~~Except~~	~~Except~~	~~Except~~	~~Except~~	~~Except~~	~~Except~~	~~Except~~	~~Except~~	~~Except~~	~~Except~~	~~Except~~
Ammonia	pH <2 H_2SO_4																
COD	pH <2 H_2SO_4		yes														
Cyanide	PH >12 NaOH																
Metals	pH <2 HNO_3																
NO_2 & NO_3	pH <2 H_2SO_4		yes														
Nutrients	pH <2 H_2SO_4																
O & G	pH <2 HCL																
Phenols	pH <2 H_2SO_4																
Sulfide	pH > 9NaOH, Zn Acetate																
TKN	pH <2 H_2SO_4		yes														
TOC	pH <2 H_3PO_4																
TOX	pH <2 H_2SO_4																
T PO_4	pH <2 H_2SO_4		yes														
TPH	pH <2 HCL																

ch 4/10/13

Procedure:
1) Pour a small amount of sample in the sample lid
2) Pour sample from Lid gently over wide range pH paper
3) **Do Not** dip the pH paper in the sample bottle or lid
4) If sample is not preserved properly list its extension and receiving pH in the appropriate column above
5) Flag COC, notify client if requested
6) Place client conversation on COC
7) Samples may be adjusted

Frequency: All samples requiring preservation