ALS Environmental

GC/MS Volatiles

Case Narrative

Colorado Oil & Gas Conservation Commission

Complaint 200339399

Work Order Number: 1202195

1. This report consists of 1 water sample. The sample was received cool and intact by ALS on 02/16/12.

   The aqueous sample was free of headspace prior to analysis.

   The sample had a pH < 2 at the time of analysis.

2. The sample was prepared according to SW-846, 3rd Edition procedures. Specifically, the water sample was prepared using purge and trap procedures based on Method 5030C.

3. The sample was analyzed using GC/MS with an RTX-624, RTX-VMS, or equivalent capillary column according to SOP 525 Revision 15 based on SW-846 Method 8260. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. All initial calibration criteria were met.

5. All initial calibrations are verified by comparing a second source standard calibration verification (ICV) against the calibration curve. All criteria for initial calibration verification were met.

6. All criteria were met in daily (continuing) calibration verifications (CCV).

7. Methylene chloride, acetone and 2-butanone are common laboratory contaminants. In order to minimize the levels of these compounds detected in the gc/ms analysis, ALS has designated its volatile laboratory as a restricted access area. In addition, the laboratory has been equipped with a dedicated, air intake and exhaust system that operates under positive pressure in order to minimize cross contamination of these compounds. Due to fluctuations in ambient laboratory conditions, reported sample values for common laboratory contaminants may be due to lab contamination even if the compound in question is not detected in the associated method blank.

All method blank criteria were met.

8. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria.

9. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

10. The sample was analyzed within the established holding time.

11. All surrogate recoveries were within acceptance criteria.

12. All internal standard recoveries were within acceptance criteria.

13. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 4.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Emily Hellickson — 21 Feb. 12
Emily Hellickson — Date
Organics Primary Data Reviewer

Organics Final Data Reviewer — 2/23/12
Organics Final Data Reviewer — Date

ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

U or ND:	**This flag indicates that the compound was analyzed for but not detected.**
J:	**This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.**
B:	**This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.**
E:	**This flag identifies compounds whose concentration exceeds the upper level of the calibration range.**
A:	**This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.**
X:	**This flag indicates that the analyte was diluted below an accurate quantitation level.**
***:**	**This flag indicates that a spike recovery is equal to or outside the control criteria used.**
+:	**This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.**

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1202195
Client Name: Colorado Oil & Gas Conservation Commission
Client Project Name: Complaint 200339399
Client Project Number:
Client PO Number: PHA 12-10

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
705325 Nosaka WW	1202195-1		WATER	14-Feb-12	14:17

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 202r8

WORKORDER # 1202195

PAGE 1 of 1

DISPOSAL: By Lab or Return to Client

PROJECT NAME	Complaints 20033939 + 20033940	SAMPLER	PTG
PROJECT No		SITE ID	
		EDD FORMAT	
COMPANY NAME		PURCHASE ORDER	
SEND REPORT TO	Peter Gintautas	BILL TO COMPANY	
ADDRESS	PO Box 108	INVOICE ATTN TO	
CITY / STATE / ZIP	Trinidad CO 81082	ADDRESS	
PHONE	719-846-3091	CITY / STATE / ZIP	
FAX		PHONE	
E-MAIL	peter.gintautas@state.co.us	FAX	
		E-MAIL	
		DATE	15 Feb 2012
		TURNAROUND	14 days

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres	QC	8260_25 + TICs	TDC	Dissolved Metals	Alk. (Tot, HCO3, CO3)	pH	Cond.	TDS	Anions	SAR calc.	Cation Anion Balance	Diss. Gases	8270 + 1,4-dioxane
	Complaint 20033940-2																		
	707183 Steiner WW	W	14Feb	14:47	3	1		X											
	Trip Blank	W	14Feb	06:30	2	1		X											
	707183 Steiner WW	W	14Feb	14:47	1	3			X										
	707183 Steiner WW	W	14Feb	14:47	6	8				X	X	X	X	X	X	X	X	X	X
	Complaint 20033939		14																
(1)	705325 Nosaka WW	W	14Feb	14:17	3	1		X											
↓	705325 Nosaka WW	W	14Feb	14:17	1	3			X										
↓	705325 Nosaka WW	W	14Feb	14:17	6	8				X	X	X	X	X	X	X	X	X	X

Time Zone (Circle): EST CST (MST) PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: Dissolved metals = Filter + preserve upon receipt.
Anions = Br, Cl, F, NO_2, NO_3, PO_4, SO_4
200.8 - 6020-11, Be, 200.7 6020
200.8 - 6020-16 $Na_{200.8}$, Th-200.8

QC PACKAGE (check below)	
X	LEVEL II (Standard QC)
	LEVEL III (Std QC + forms)
	LEVEL IV (Std QC + forms + raw data)

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Peter Gintautas	Peter Gintautas	15Feb12	12:15
RECEIVED BY		Lauren Schmitz	2/16/12	0925
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: COGCC Workorder No: 1202195

Project Manager: ARW Initials: LAS Date: 2/16/12

1. Does this project require any **special handling** in addition to standard Paragon procedures?		YES	(NO)
2. Are custody **seals** on **shipping containers** intact?	NONE	(YES)	NO
3. Are Custody seals on **sample containers** intact?	(NONE)	YES	NO
4. Is there a **COC (Chain-of-Custody) present** or other representative documents?		(YES)	NO
5. Are the **COC and bottle labels complete and legible**?		(YES)	NO
6. Is the **COC in agreement** with samples received? (IDs, dates, times, no. of containers, matrix, requested analyses, etc.)		(YES)	NO
7. Were **airbills / shipping documents** present and/or removable?	DROP OFF	(YES)	NO
8. Are all **aqueous samples requiring preservation preserved correctly? (excluding volatiles)**	N/A	(YES)	NO
9. Are all aqueous **non-preserved samples pH 4-9**?	N/A	(YES)	NO
10. Is there **sufficient sample** for the requested analyses?		(YES)	NO
11. Were all samples placed in the **proper containers** for the requested analyses?		(YES)	NO
12. Are all samples within **holding times** for the requested analyses?		(YES)	NO
13. Were all sample containers received **intact**? (not broken or leaking, etc.)		(YES)	NO
(14.) Are all samples requiring **no** headspace (**VOC, GRO, RSK/MEE, Rx CN/S, radon**) headspace free? **Size of bubble**: X < green pea ___ > green pea	N/A	YES	(NO) *
15. Do perchlorate LCMS-MS samples **have** headspace? (at least 1/3 of container required)	(N/A)	YES	NO
16. Were samples checked for and free from the presence of **residual chlorine?** (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	(N/A)	YES	NO
17. Were the samples **shipped on ice**?		(YES)	NO
18. Were cooler temperatures measured at 0.1-6.0°C? **IR gun used*:** (#2) #4	RAD ONLY	(YES)	NO

Cooler #:	1							
Temperature (°C):	1.6							
No. of custody seals on cooler:	1							
DOT Survey/ Acceptance Information — External µR/hr reading:	14							
Background µR/hr reading:	11							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? **YES / NO / NA** (If no, see Form 008.)

Additional ~~I~~nformation: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

(*14) 1202195-1-6(705325 Nosaka) for Diss. Gases arrived with headspace ≤ pea-size.

If applicable, was the client contacted? **YES / NO / (NA)** Contact: _____ Date/Time: _____

Project Manager Signature / Date: C. Wolf 2/16/12

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Form 201r22.xls (6/1/09)

From: (719) 846-3091
Peter Gintautas
Colo. Oil & Gas Cons. Comm.
213 Corundum RD

Trinidad, CO 81082

Origin ID: PUBA

FedEx Express

J12101112190225

Ship Date: 15FEB12
ActWgt: 34.0 LB
CAD: 4076443/INET3250

Delivery Address Bar Code

SHIP TO: (970) 490-1511

BILL SENDER

Amy Wolf
ALS Laboratory Group
225 COMMERCE DR

FORT COLLINS, CO 80524

Ref # Complaint 200339399
Invoice #
PO #
Dept #

14

THU - 16 FEB A2
PRIORITY OVERNIGHT

TRK# 0201 7932 3213 0507

80524
CO-US
DEN

72 FTCA

1.6

512G1/9F59/A278

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: VL120217-3MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12
Prep Method: SW5030 Rev C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: N/A
File Name: C34498

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	1	1	1	U	
74-87-3	CHLOROMETHANE	1	1	1	U	
75-01-4	VINYL CHLORIDE	1	1	1	U	
74-83-9	BROMOMETHANE	1	1	1	U	
75-00-3	CHLOROETHANE	1	1	1	U	
75-69-4	TRICHLOROFLUOROMETHANE	1	1	1	U	
75-35-4	1,1-DICHLOROETHENE	1	1	1	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROET	1	1	1	U	
67-64-1	ACETONE	1	10	10	U	
74-88-4	IODOMETHANE	1	1	1	U	
75-15-0	CARBON DISULFIDE	1	1	1	U	
75-09-2	METHYLENE CHLORIDE	1	1	1	U	
156-60-5	TRANS-1,2-DICHLOROETHENE	1	1	1	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	1	1	1	U	
75-34-3	1,1-DICHLOROETHANE	1	1	1	U	
108-05-4	VINYL ACETATE	1	2	2	U	
156-59-2	CIS-1,2-DICHLOROETHENE	1	1	1	U	
78-93-3	2-BUTANONE	1	10	10	U	
74-97-5	BROMOCHLOROMETHANE	1	1	1	U	
67-66-3	CHLOROFORM	1	1	1	U	
71-55-6	1,1,1-TRICHLOROETHANE	1	1	1	U	
594-20-7	2,2-DICHLOROPROPANE	1	1	1	U	
56-23-5	CARBON TETRACHLORIDE	1	1	1	U	
563-58-6	1,1-DICHLOROPROPENE	1	1	1	U	
107-06-2	1,2-DICHLOROETHANE	1	1	1	U	
71-43-2	BENZENE	1	1	1	U	
79-01-6	TRICHLOROETHENE	1	1	1	U	

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: VL120217-3MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12
Prep Method: SW5030 Rev C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: N/A
File Name: C34498

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

78-87-5	1,2-DICHLOROPROPANE	1	1	1	U	
74-95-3	DIBROMOMETHANE	1	1	1	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	1	1	1	U	
108-10-1	4-METHYL-2-PENTANONE	1	10	10	U	
108-88-3	TOLUENE	1	1	1	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1	1	1	U	
79-00-5	1,1,2-TRICHLOROETHANE	1	1	1	U	
591-78-6	2-HEXANONE	1	10	10	U	
127-18-4	TETRACHLOROETHENE	1	1	1	U	
142-28-9	1,3-DICHLOROPROPANE	1	1	1	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	U	
106-93-4	1,2-DIBROMOETHANE	1	1	1	U	
544-10-5	1-CHLOROHEXANE	1	1	1	U	
108-90-7	CHLOROBENZENE	1	1	1	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	1	1	1	U	
100-41-4	ETHYLBENZENE	1	1	1	U	
136777-61-	M+P-XYLENE	1	1	1	U	
95-47-6	O-XYLENE	1	1	1	U	
100-42-5	STYRENE	1	1	1	U	
75-25-2	BROMOFORM	1	1	1	U	
98-82-8	ISOPROPYLBENZENE	1	1	1	U	
96-18-4	1,2,3-TRICHLOROPROPANE	1	1	1	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1	1	1	U	
108-86-1	BROMOBENZENE	1	1	1	U	
103-65-1	N-PROPYLBENZENE	1	1	1	U	
95-49-8	2-CHLOROTOLUENE	1	1	1	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	1	1	1	U	
106-43-4	4-CHLOROTOLUENE	1	1	1	U	

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: VL120217-3MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12
Prep Method: SW5030 Rev C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: N/A
File Name: C34498

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

98-06-6	TERT-BUTYLBENZENE	1	1	1	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	1	1	1	U	
135-98-8	SEC-BUTYLBENZENE	1	1	1	U	
541-73-1	1,3-DICHLOROBENZENE	1	1	1	U	
99-87-6	P-ISOPROPYLTOLUENE	1	1	1	U	
106-46-7	1,4-DICHLOROBENZENE	1	1	1	U	
104-51-8	N-BUTYLBENZENE	1	1	1	U	
95-50-1	1,2-DICHLOROBENZENE	1	1	1	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1	2	2	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	1	1	U	
87-68-3	HEXACHLOROBUTADIENE	1	1	1	U	
91-20-3	NAPHTHALENE	1	1	1	U	
87-61-6	1,2,3-TRICHLOROBENZENE	1	1	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	26.8		25	107	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	26.1		25	104	84 - 118
2037-26-5	TOLUENE-D8	26		25	104	85 - 115

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID:

Lab ID: VL120217-3MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: As Received

Sample Aliquot: 10 ml
Final Volume: 10 ml
Clean DF: 1
File Name: C34498

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
		NONE DETECTED	1			U

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25 Revision C

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID: 705325 Nosaka WW
Lab ID: 1202195-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 14-Feb-12
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12
Prep Method: SW5030 Rev C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: As Received
File Name: C34511

Analyst: Steven D. W
Sample Aliquot: 10 ML
Final Volume: 10 ML
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	1	1	1	U	
74-87-3	CHLOROMETHANE	1	1	1	U	
75-01-4	VINYL CHLORIDE	1	1	1	U	
74-83-9	BROMOMETHANE	1	1	1	U	
75-00-3	CHLOROETHANE	1	1	1	U	
75-69-4	TRICHLOROFLUOROMETHANE	1	1	1	U	
75-35-4	1,1-DICHLOROETHENE	1	1	1	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE	1	1	1	U	
67-64-1	ACETONE	1	10	10	U	
74-88-4	IODOMETHANE	1	1	1	U	
75-15-0	CARBON DISULFIDE	1	1	1	U	
75-09-2	METHYLENE CHLORIDE	1	1	1	U	
156-60-5	TRANS-1,2-DICHLOROETHENE	1	1	1	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	1	1	1	U	
75-34-3	1,1-DICHLOROETHANE	1	1	1	U	
108-05-4	VINYL ACETATE	1	2	2	U	
156-59-2	CIS-1,2-DICHLOROETHENE	1	1	1	U	
78-93-3	2-BUTANONE	1	10	10	U	
74-97-5	BROMOCHLOROMETHANE	1	1	1	U	
67-66-3	CHLOROFORM	1	1	1	U	
71-55-6	1,1,1-TRICHLOROETHANE	1	1	1	U	
594-20-7	2,2-DICHLOROPROPANE	1	1	1	U	
56-23-5	CARBON TETRACHLORIDE	1	1	1	U	
563-58-6	1,1-DICHLOROPROPENE	1	1	1	U	
107-06-2	1,2-DICHLOROETHANE	1	1	1	U	
71-43-2	BENZENE	1	1	1	U	
79-01-6	TRICHLOROETHENE	1	1	1	U	

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25 Revision C

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID: 705325 Nosaka WW
Lab ID: 1202195-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 14-Feb-12
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12
Prep Method: SW5030 Rev C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: As Received
File Name: C34511

Analyst: Steven D. W
Sample Aliquot: 10 ML
Final Volume: 10 ML
Result Units: UG/L
Clean DF: 1

78-87-5	1,2-DICHLOROPROPANE	1	1	1	U	
74-95-3	DIBROMOMETHANE	1	1	1	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	1	1	1	U	
108-10-1	4-METHYL-2-PENTANONE	1	10	10	U	
108-88-3	TOLUENE	1	1	1	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1	1	1	U	
79-00-5	1,1,2-TRICHLOROETHANE	1	1	1	U	
591-78-6	2-HEXANONE	1	10	10	U	
127-18-4	TETRACHLOROETHENE	1	1	1	U	
142-28-9	1,3-DICHLOROPROPANE	1	1	1	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	U	
106-93-4	1,2-DIBROMOETHANE	1	1	1	U	
544-10-5	1-CHLOROHEXANE	1	1	1	U	
108-90-7	CHLOROBENZENE	1	1	1	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	1	1	1	U	
100-41-4	ETHYLBENZENE	1	1	1	U	
136777-61-	M+P-XYLENE	1	1	1	U	
95-47-6	O-XYLENE	1	1	1	U	
100-42-5	STYRENE	1	1	1	U	
75-25-2	BROMOFORM	1	1	1	U	
98-82-8	ISOPROPYLBENZENE	1	1	1	U	
96-18-4	1,2,3-TRICHLOROPROPANE	1	1	1	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1	1	1	U	
108-86-1	BROMOBENZENE	1	1	1	U	
103-65-1	N-PROPYLBENZENE	1	1	1	U	
95-49-8	2-CHLOROTOLUENE	1	1	1	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	1	1	1	U	
106-43-4	4-CHLOROTOLUENE	1	1	1	U	

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25 Revision C

Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID: 705325 Nosaka WW
Lab ID: 1202195-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 14-Feb-12
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12
Prep Method: SW5030 Rev C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: As Received
File Name: C34511

Analyst: Steven D. W
Sample Aliquot: 10 ML
Final Volume: 10 ML
Result Units: UG/L
Clean DF: 1

98-06-6	TERT-BUTYLBENZENE	1	1	1	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	1	1	1	U	
135-98-8	SEC-BUTYLBENZENE	1	1	1	U	
541-73-1	1,3-DICHLOROBENZENE	1	1	1	U	
99-87-6	P-ISOPROPYLTOLUENE	1	1	1	U	
106-46-7	1,4-DICHLOROBENZENE	1	1	1	U	
104-51-8	N-BUTYLBENZENE	1	1	1	U	
95-50-1	1,2-DICHLOROBENZENE	1	1	1	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1	2	2	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	1	1	U	
87-68-3	HEXACHLOROBUTADIENE	1	1	1	U	
91-20-3	NAPHTHALENE	1	1	1	U	
87-61-6	1,2,3-TRICHLOROBENZENE	1	1	1	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	27		25	108	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	25.3		25	101	84 - 118
2037-26-5	TOLUENE-D8	26.2		25	105	85 - 115

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25

Tentatively Identified Compounds

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Field ID: 705325 Nosaka WW
Lab ID: 1202195-1

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 14-Feb-12
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: As Received

Sample Aliquot: 10 ml
Final Volume: 10 ml
Clean DF: 1
File Name: C34511

CASNO	Retention Time	Target Analyte	Dilution Factor	Result	Units	Qualifier
7446-09-5	3.36	SULFUR DIOXIDE	1	14	UG/L	J

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1202195

Client Name: Colorado Oil & Gas Conservation Commission

ClientProject ID: Complaint 200339399

Lab ID: VL120217-3LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/17/2012
Date Analyzed: 02/17/2012
Prep Method: SW5030C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: N/A
File Name: C34495

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
75-71-8	DICHLORODIFLUOROMETHANE	10	11.2	1		112	63 - 125%
74-87-3	CHLOROMETHANE	10	10.5	1		105	73 - 122%
75-01-4	VINYL CHLORIDE	10	10.6	1		106	72 - 123%
74-83-9	BROMOMETHANE	10	10.3	1		103	68 - 123%
75-00-3	CHLOROETHANE	10	10.1	1		101	74 - 124%
75-69-4	TRICHLOROFLUOROMETHANE	10	9.91	1		99	74 - 124%
75-35-4	1,1-DICHLOROETHENE	10	10.4	1		104	77 - 119%
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHA	10	10.2	1		102	79 - 122%
67-64-1	ACETONE	40	38.1	10		95	62 - 142%
74-88-4	IODOMETHANE	10	8.89	1		89	72 - 126%
75-15-0	CARBON DISULFIDE	10	10.5	1		105	76 - 121%
75-09-2	METHYLENE CHLORIDE	10	9.91	1		99	71 - 130%
156-60-5	TRANS-1,2-DICHLOROETHENE	10	10.4	1		104	82 - 117%
1634-04-4	METHYL TERTIARY BUTYL ETHER	20	20.7	1		103	77 - 119%
75-34-3	1,1-DICHLOROETHANE	10	10.7	1		107	83 - 119%
108-05-4	VINYL ACETATE	10	9.4	2		94	76 - 121%
156-59-2	CIS-1,2-DICHLOROETHENE	10	10.3	1		103	83 - 117%
78-93-3	2-BUTANONE	40	38.1	10		95	70 - 135%
74-97-5	BROMOCHLOROMETHANE	10	10.5	1		105	83 - 121%
67-66-3	CHLOROFORM	10	10.3	1		103	82 - 119%
71-55-6	1,1,1-TRICHLOROETHANE	10	10.3	1		103	80 - 120%
594-20-7	2,2-DICHLOROPROPANE	10	11.3	1		113	83 - 125%
56-23-5	CARBON TETRACHLORIDE	10	10.7	1		107	77 - 122%
563-58-6	1,1-DICHLOROPROPENE	10	10.5	1		105	84 - 118%
107-06-2	1,2-DICHLOROETHANE	10	10.3	1		103	74 - 128%
71-43-2	BENZENE	10	10.5	1		105	83 - 117%

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1202195
Client Name: Colorado Oil & Gas Conservation Commission
ClientProject ID: Complaint 200339399

Lab ID: VL120217-3LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/17/2012
Date Analyzed: 02/17/2012
Prep Method: SW5030C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: N/A
File Name: C34495

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
79-01-6	TRICHLOROETHENE	10	10.3	1		103	83 - 117%
78-87-5	1,2-DICHLOROPROPANE	10	10.5	1		105	84 - 120%
74-95-3	DIBROMOMETHANE	10	10.1	1		101	79 - 122%
75-27-4	BROMODICHLOROMETHANE	10	10.6	1		106	76 - 122%
10061-01-5	CIS-1,3-DICHLOROPROPENE	10	10.9	1		109	81 - 120%
108-10-1	4-METHYL-2-PENTANONE	40	40.3	10		101	73 - 125%
108-88-3	TOLUENE	10	10.3	1		103	82 - 113%
10061-02-6	TRANS-1,3-DICHLOROPROPENE	10	10.9	1		109	81 - 114%
79-00-5	1,1,2-TRICHLOROETHANE	10	10.3	1		103	78 - 116%
591-78-6	2-HEXANONE	40	39.8	10		100	71 - 124%
127-18-4	TETRACHLOROETHENE	10	10.1	1		101	84 - 117%
142-28-9	1,3-DICHLOROPROPANE	10	10.4	1		104	80 - 115%
124-48-1	DIBROMOCHLOROMETHANE	10	10.4	1		104	82 - 118%
106-93-4	1,2-DIBROMOETHANE	10	10.3	1		103	79 - 114%
544-10-5	1-CHLOROHEXANE	10	10.4	1		104	80 - 117%
108-90-7	CHLOROBENZENE	10	10.5	1		105	81 - 113%
630-20-6	1,1,1,2-TETRACHLOROETHANE	10	10.7	1		107	78 - 113%
100-41-4	ETHYLBENZENE	10	10.4	1		104	81 - 113%
136777-61-	M+P-XYLENE	20	21.1	1		105	82 - 115%
95-47-6	O-XYLENE	10	10.6	1		106	81 - 115%
100-42-5	STYRENE	10	10.8	1		108	78 - 118%
75-25-2	BROMOFORM	10	10.2	1		102	70 - 120%
98-82-8	ISOPROPYLBENZENE	10	10.4	1		104	80 - 113%
96-18-4	1,2,3-TRICHLOROPROPANE	10	10.7	1		107	78 - 117%
79-34-5	1,1,2,2-TETRACHLOROETHANE	10	10.4	1		104	75 - 121%
108-86-1	BROMOBENZENE	10	10.4	1		104	81 - 114%
103-65-1	N-PROPYLBENZENE	10	10.7	1		107	79 - 116%

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1202195
Client Name: Colorado Oil & Gas Conservation Commission
ClientProject ID: Complaint 200339399

Lab ID: VL120217-3LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/17/2012
Date Analyzed: 02/17/2012
Prep Method: SW5030C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: N/A
File Name: C34495

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
95-49-8	2-CHLOROTOLUENE	10	10.8	1		108	79 - 116%
108-67-8	1,3,5-TRIMETHYLBENZENE	10	10.6	1		106	78 - 116%
106-43-4	4-CHLOROTOLUENE	10	10.7	1		107	78 - 115%
98-06-6	TERT-BUTYLBENZENE	10	10.6	1		106	76 - 120%
95-63-6	1,2,4-TRIMETHYLBENZENE	10	10.6	1		106	80 - 117%
135-98-8	SEC-BUTYLBENZENE	10	10.4	1		104	78 - 115%
541-73-1	1,3-DICHLOROBENZENE	10	10.6	1		106	79 - 115%
99-87-6	P-ISOPROPYLTOLUENE	10	10.5	1		105	77 - 116%
106-46-7	1,4-DICHLOROBENZENE	10	10.5	1		105	82 - 114%
104-51-8	N-BUTYLBENZENE	10	10.6	1		106	79 - 117%
95-50-1	1,2-DICHLOROBENZENE	10	10.6	1		106	82 - 114%
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	10	10.4	2		104	73 - 125%
120-82-1	1,2,4-TRICHLOROBENZENE	10	10.8	1		108	75 - 120%
87-68-3	HEXACHLOROBUTADIENE	10	10.1	1		101	71 - 124%
91-20-3	NAPHTHALENE	10	10.4	1		104	71 - 131%
87-61-6	1,2,3-TRICHLOROBENZENE	10	10.6	1		106	70 - 131%

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1202195
Client Name: Colorado Oil & Gas Conservation Commission
ClientProject ID: Complaint 200339399

Lab ID: VL120217-3LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/17/2012
Date Analyzed: 02/17/2012
Prep Method: SW5030C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: N/A
File Name: C34496

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
75-71-8	DICHLORODIFLUOROMETHANE	10	11.3	1		113	20	0
74-87-3	CHLOROMETHANE	10	10.4	1		104	20	1
75-01-4	VINYL CHLORIDE	10	10.6	1		106	20	0
74-83-9	BROMOMETHANE	10	10.1	1		101	20	2
75-00-3	CHLOROETHANE	10	10.2	1		102	20	1
75-69-4	TRICHLOROFLUOROMETHANE	10	10.2	1		102	20	3
75-35-4	1,1-DICHLOROETHENE	10	10.3	1		103	20	1
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHA	10	10.2	1		102	20	0
67-64-1	ACETONE	40	39.2	10		98	30	3
74-88-4	IODOMETHANE	10	8.86	1		89	20	0
75-15-0	CARBON DISULFIDE	10	10.4	1		104	20	1
75-09-2	METHYLENE CHLORIDE	10	10.2	1		102	20	2
156-60-5	TRANS-1,2-DICHLOROETHENE	10	10.5	1		105	20	1
1634-04-4	METHYL TERTIARY BUTYL ETHER	20	21.4	1		107	20	3
75-34-3	1,1-DICHLOROETHANE	10	10.8	1		108	20	1
108-05-4	VINYL ACETATE	10	10.2	2		102	20	8
156-59-2	CIS-1,2-DICHLOROETHENE	10	10.2	1		102	20	1
78-93-3	2-BUTANONE	40	40.3	10		101	30	6
74-97-5	BROMOCHLOROMETHANE	10	10.8	1		108	20	3
67-66-3	CHLOROFORM	10	10.5	1		105	20	2
71-55-6	1,1,1-TRICHLOROETHANE	10	10.6	1		106	20	2
594-20-7	2,2-DICHLOROPROPANE	10	11.2	1		112	20	1
56-23-5	CARBON TETRACHLORIDE	10	10.7	1		107	20	0
563-58-6	1,1-DICHLOROPROPENE	10	10.6	1		106	20	1
107-06-2	1,2-DICHLOROETHANE	10	10.6	1		106	20	3
71-43-2	BENZENE	10	10.6	1		106	20	1
79-01-6	TRICHLOROETHENE	10	10.4	1		104	20	1

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1202195
Client Name: Colorado Oil & Gas Conservation Commission
ClientProject ID: Complaint 200339399

Lab ID: VL120217-3LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/17/2012
Date Analyzed: 02/17/2012
Prep Method: SW5030C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: N/A
File Name: C34496

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
78-87-5	1,2-DICHLOROPROPANE	10	10.8	1		108	20	3
74-95-3	DIBROMOMETHANE	10	10.8	1		108	20	7
75-27-4	BROMODICHLOROMETHANE	10	10.8	1		108	20	2
10061-01-5	CIS-1,3-DICHLOROPROPENE	10	11.2	1		112	20	2
108-10-1	4-METHYL-2-PENTANONE	40	42.3	10		106	30	5
108-88-3	TOLUENE	10	10.5	1		105	20	3
10061-02-6	TRANS-1,3-DICHLOROPROPENE	10	11.4	1		114	20	5
79-00-5	1,1,2-TRICHLOROETHANE	10	10.8	1		108	20	5
591-78-6	2-HEXANONE	40	42.3	10		106	30	6
127-18-4	TETRACHLOROETHENE	10	10.3	1		103	20	2
142-28-9	1,3-DICHLOROPROPANE	10	11	1		110	20	6
124-48-1	DIBROMOCHLOROMETHANE	10	10.8	1		108	20	4
106-93-4	1,2-DIBROMOETHANE	10	10.7	1		107	20	4
544-10-5	1-CHLOROHEXANE	10	10.6	1		106	20	2
108-90-7	CHLOROBENZENE	10	10.8	1		108	20	3
630-20-6	1,1,1,2-TETRACHLOROETHANE	10	11	1		110	20	3
100-41-4	ETHYLBENZENE	10	10.6	1		106	20	2
136777-61-	M+P-XYLENE	20	21.4	1		107	20	2
95-47-6	O-XYLENE	10	10.8	1		108	20	2
100-42-5	STYRENE	10	11	1		110	20	2
75-25-2	BROMOFORM	10	10.7	1		107	20	5
98-82-8	ISOPROPYLBENZENE	10	10.7	1		107	20	3
96-18-4	1,2,3-TRICHLOROPROPANE	10	11.3	1		113	20	5
79-34-5	1,1,2,2-TETRACHLOROETHANE	10	10.7	1		107	20	3
108-86-1	BROMOBENZENE	10	10.7	1		107	20	3
103-65-1	N-PROPYLBENZENE	10	10.7	1		107	20	0
95-49-8	2-CHLOROTOLUENE	10	10.7	1		107	20	1

Data Package ID: *VL1202195-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1202195
Client Name: Colorado Oil & Gas Conservation Commission
ClientProject ID: Complaint 200339399

Lab ID: VL120217-3LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/17/2012
Date Analyzed: 02/17/2012
Prep Method: SW5030C

Prep Batch: VL120217-3
QCBatchID: VL120217-3-2
Run ID: VL120217-3A
Cleanup: NONE
Basis: N/A
File Name: C34496

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
108-67-8	1,3,5-TRIMETHYLBENZENE	10	10.9	1		109	20	3
106-43-4	4-CHLOROTOLUENE	10	10.9	1		109	20	1
98-06-6	TERT-BUTYLBENZENE	10	10.5	1		105	20	0
95-63-6	1,2,4-TRIMETHYLBENZENE	10	10.5	1		105	20	1
135-98-8	SEC-BUTYLBENZENE	10	10.4	1		104	20	0
541-73-1	1,3-DICHLOROBENZENE	10	10.7	1		107	20	2
99-87-6	P-ISOPROPYLTOLUENE	10	10.6	1		106	20	0
106-46-7	1,4-DICHLOROBENZENE	10	10.6	1		106	20	1
104-51-8	N-BUTYLBENZENE	10	10.6	1		106	20	0
95-50-1	1,2-DICHLOROBENZENE	10	10.7	1		107	20	1
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	10	10.7	2		107	20	2
120-82-1	1,2,4-TRICHLOROBENZENE	10	10.8	1		108	20	1
87-68-3	HEXACHLOROBUTADIENE	10	10.3	1		103	20	2
91-20-3	NAPHTHALENE	10	10.9	1		109	20	4
87-61-6	1,2,3-TRICHLOROBENZENE	10	11.2	1		112	20	5

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	25	107		107		85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	25	106		106		84 - 118
2037-26-5	TOLUENE-D8	25	106		107		85 - 115

Data Package ID: *VL1202195-1*

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021712\C34495.D Vial: 6
Acq On : 17 Feb 2012 11:18 Operator: sdw-sop525r15
Sample : VL120217-3LCS Inst : CSS Instr
Misc : UN-Heated Purge - 10ppb Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 17 11:56 2012 Quant Results File: 012412W.RES

Quant Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration
DataAcq Meth : 012412W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	8.93	96	1338970	25.00	ppb	0.00
58) Chlorobenzene-d5	12.14	82	481600	25.00	ppb	0.00
78) 1,4-Dichlorobenzene-d4	14.17	152	417418	25.00	ppb	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	8.11	113	542437	26.61	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 106.44%			
42) 1,2-dichloroethane-d4	8.58	65	369777	26.39	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 105.56%			
59) Toluene-d8	10.67	98	1578134	26.59	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 106.36%			
79) 4-Bromofluorobenzene	13.19	95	568765	26.78	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 107.12%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	238486	11.25	ppb	98
3) Chloromethane	3.47	50	287010	10.51	ppb	100
4) Vinyl chloride	3.62	62	196932	10.63	ppb	97
5) Bromomethane	4.14	96	205194	10.32	ppb	98
6) Chloroethane	4.28	64	143821	10.10	ppb	100
7) Trichlorofluoromethane	4.59	101	237394	9.91	ppb	99
8) Ethanol	4.83	45	42050	208.61	ppb	96
9) Diethyl Ether	4.96	59	130356	10.51	ppb	95
10) Acrolein	5.21	56	196555	86.78	ppb	98
11) 1,1,2-Trichloro-1,2,2-trif	5.22	101	180511	10.19	ppb	96
12) 1,1-Dichloroethene	5.29	96	170291	10.41	ppb	96
13) Acetone	5.41	43	162653	38.06	ppb	97
14) Iodomethane	5.55	142	141318	8.89	ppb	99
15) Carbon Disulfide	5.63	76	564603	10.45	ppb	100
16) Methyl Acetate	5.77	43	139265	9.41	ppb	98
17) Allyl chloride	5.77	76	98459	11.09	ppb	94
18) Acetonitrile	5.82	40	104176	91.96	ppb	94
19) Methylene chloride	5.96	84	207161	9.91	ppb	99
20) tert-Butanol	5.98	59	691373	494.11	ppb	98
21) Methyl-t-butyl-ether	6.20	73	742944	20.67	ppb	99
22) trans-1,2-Dichloroethene	6.24	96	185776	10.37	ppb	99
23) Acrylonitrile	6.30	53	559691	99.08	ppb	99
24) Hexane	6.20	57	186398	10.50	ppb	96
25) Isopropyl ether	6.75	45	772769	10.29	ppb	100
26) Vinyl Acetate	6.79	43	390593	9.40	ppb	99
27) 1,1-Dichloroethane	6.82	63	346265	10.69	ppb	98
28) Chloroprene	6.89	53	228164	10.75	ppb	99
29) Ethyl tert-butyl ether	7.19	59	540018	10.43	ppb	99
30) 2,2-Dichloropropane	7.52	77	211099	11.35	ppb	98
31) 2-Butanone	7.54	43	315859	38.12	ppb	100
32) cis-1,2-Dichloroethene	7.54	96	212701	10.31	ppb	96
33) Propionitrile	7.69	54	190226	97.71	ppb	96
34) Methacrylonitrile	7.86	67	52216	10.71	ppb	97
35) Bromochloromethane	7.86	128	93015	10.48	ppb	97
36) Chloroform	7.90	83	305501	10.31	ppb	98
38) 1,1,1-Trichloroethane	8.14	97	225528	10.32	ppb	97
39) Cyclohexane	8.15	84	437341	20.74	ppb	98
40) Carbon tetrachloride	8.31	117	172302	10.71	ppb	100
41) 1,1-Dichloropropene	8.34	75	217941	10.47	ppb	99
43) Isobutyl alcohol	8.37	43	145470	200.87	ppb	97

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

2/20/12

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021712\C34495.D Vial: 6
Acq On : 17 Feb 2012 11:18 Operator: sdw-sop525r15
Sample : VL120217-3LCS Inst : CSS Instr
Misc : UN-Heated Purge - 10ppb Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 17 11:56 2012 Quant Results File: 012412W.RES

Quant Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration
DataAcq Meth : 012412W

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
44)	tert-Amyl methyl ether	8.64	87	86343	10.66 ppb	89
45)	Benzene	8.59	78	686930	10.51 ppb	98
46)	1,2-Dichloroethane	8.68	62	175320	10.26 ppb	98
47)	n-Butanol	9.19	56	201090	524.17 ppb	99
48)	Trichloroethene	9.36	130	169756	10.34 ppb	96
49)	Methyl Cyclohexane	9.53	55	221984	10.12 ppb	100
50)	1,2-Dichloropropane	9.66	63	199777	10.46 ppb	96
51)	Methyl methacrylate	9.68	69	88316	10.54 ppb	86
52)	1,4-Dioxane	9.80	88	26083	211.40 ppb	93
53)	Dibromomethane	9.82	93	109750	10.10 ppb	99
54)	Bromodichloromethane	9.95	83	222590	10.61 ppb	98
55)	2-Chloroethyl vinyl ether	10.22	63	74223	12.68 ppb	97
56)	cis-1,3-Dichloropropene	10.43	75	289795	10.93 ppb	99
57)	4-Methyl-2-Pentanone	10.54	43	688393	40.31 ppb	98
60)	Toluene	10.75	91	660400	10.27 ppb	99
61)	Ethyl methacrylate	10.99	69	182998	10.47 ppb	98
62)	trans-1,3-Dichloropropene	11.01	75	231312	10.89 ppb	95
63)	1,1,2-Trichloroethane	11.20	83	129447	10.25 ppb	97
64)	Tetrachloroethene	11.29	164	138556	10.13 ppb	96
65)	2-Hexanone	11.38	58	225987	39.84 ppb	98
66)	1,3-Dichloropropane	11.38	76	231634	10.39 ppb	99
67)	Dibromochloromethane	11.60	129	163108	10.36 ppb	97
68)	1,2-Dibromoethane	11.74	107	156801	10.27 ppb	96
69)	1-Chlorohexane	12.06	91	231186	10.36 ppb	99
70)	Chlorobenzene	12.17	112	462844	10.52 ppb	99
71)	Ethylbenzene	12.21	91	708155	10.45 ppb	99
72)	1,1,1,2-Tetrachloroethane	12.24	131	150986	10.69 ppb	99
73)	m,p-Xylene	12.32	106	552196	21.10 ppb	98
74)	o-Xylene	12.69	106	279606	10.59 ppb	99
75)	Styrene	12.71	104	494850	10.77 ppb	99
76)	Bromoform	12.94	173	93479	10.16 ppb	98
77)	Isopropylbenzene	12.99	105	645902	10.44 ppb	100
80)	1,1,2,2-Tetrachloroethane	13.31	83	185298	10.35 ppb	98
81)	trans-1,4-Dichloro-2-buten	13.35	53	39532	11.01 ppb	89
82)	n-Propylbenzene	13.34	91	837237	10.68 ppb	99
83)	1,2,3-Trichloropropane	13.37	110	44592	10.69 ppb	87
84)	Bromobenzene	13.35	156	175395	10.40 ppb	98
85)	1,3,5-Trimethylbenzene	13.48	105	544036	10.65 ppb	99
86)	2-Chlorotoluene	13.48	126	166978	10.76 ppb	100
87)	4-Chlorotoluene	13.57	126	164199	10.74 ppb	93
88)	tert-Butylbenzene	13.76	134	100243	10.58 ppb	92
89)	1,2,4-Trimethylbenzene	13.81	105	529641	10.58 ppb	98
90)	sec-Butylbenzene	13.95	105	715095	10.39 ppb	98
91)	p-Isopropyltoluene	14.04	119	529669	10.55 ppb	99
92)	1,3-Dichlorobenzene	14.11	146	303141	10.55 ppb	98
93)	1,4-Dichlorobenzene	14.19	146	306020	10.55 ppb	98
94)	2-Ethylhexanol	0.00	57	0	N.D. d	
95)	n-Butylbenzene	14.38	91	535003	10.59 ppb	99
96)	1,2-Dichlorobenzene	14.51	146	287551	10.62 ppb	96
97)	Hexachloroethane	14.70	119	101722	10.70 ppb	96
98)	1,2-Dibromo-3-chloropropan	15.18	157	26850	10.41 ppb	97
99)	1,2,4-Trichlorobenzene	15.90	180	191572	10.78 ppb	99
100)	Hexachlorobutadiene	15.97	225	73071	10.11 ppb	95
101)	Naphthalene	16.18	128	395768	10.39 ppb	100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021712\C34495.D Vial: 6
Acq On : 17 Feb 2012 11:18 Operator: sdw-sop525r15
Sample : VL120217-3LCS Inst : CSS Instr
Misc : UN-Heated Purge - 10ppb Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 17 11:56 2012 Quant Results File: 012412W.RES

Quant Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration
DataAcq Meth : 012412W

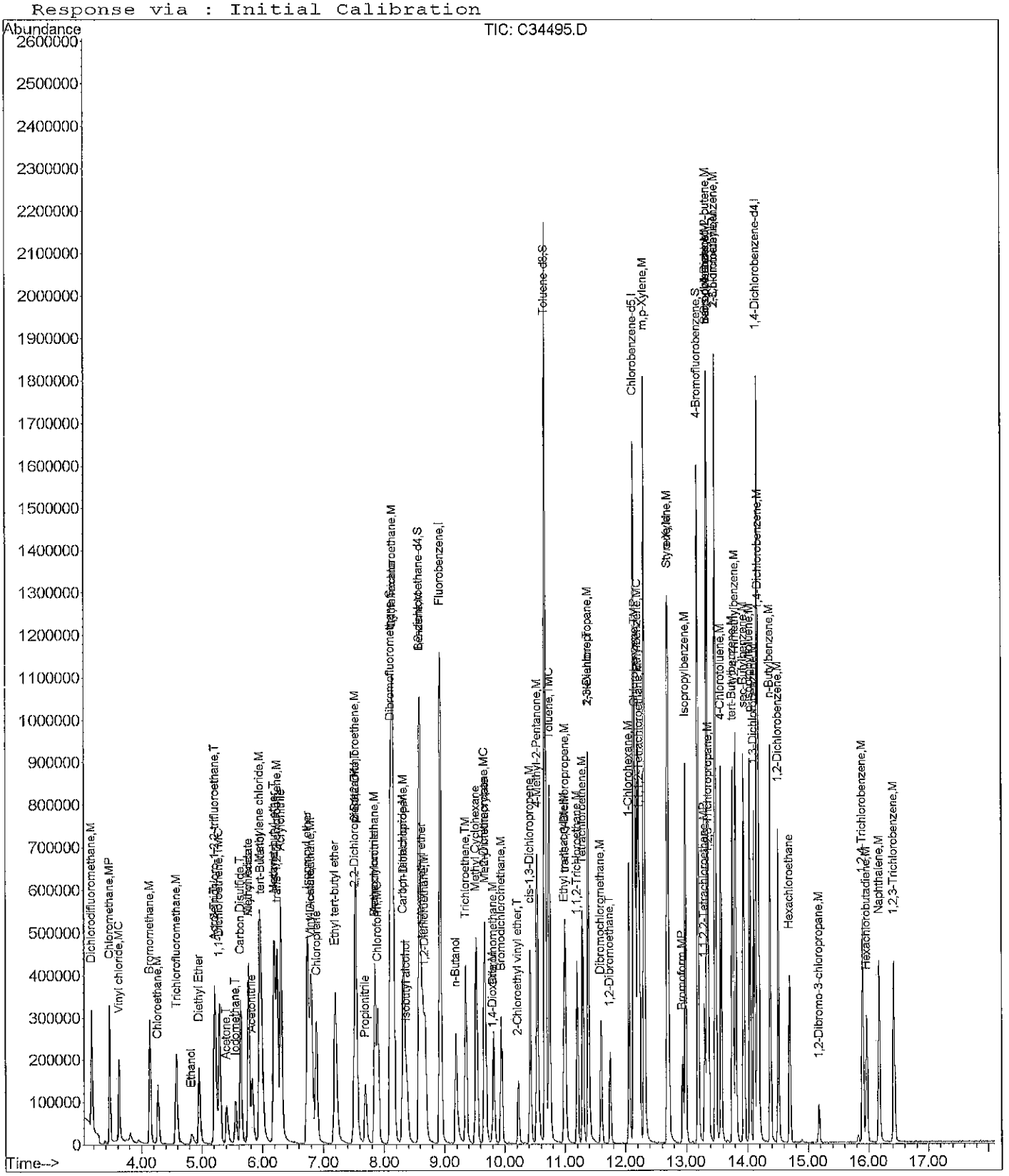
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 1,2,3-Trichlorobenzene	16.42	180	166568	10.63	ppb	99

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021712\C34495.D Vial: 6
Acq On : 17 Feb 2012 11:18 Operator: sdw-sop525r15
Sample : VL120217-3LCS Inst : CSS Instr
Misc : UN-Heated Purge - 10ppb Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 17 11:56 2012 Quant Results File: 012412W.RES

Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021712\C34496.D Vial: 7
Acq On : 17 Feb 2012 11:41 Operator: sdw-sop525r15
Sample : VL120217-3LCSD Inst : CSS Instr
Misc : UN-Heated Purge - 10ppb Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 17 12:12 2012 Quant Results File: 012412W.RES

Quant Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration
DataAcq Meth : 012412W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	8.93	96	1302787	25.00	ppb	0.00
58) Chlorobenzene-d5	12.14	82	463733	25.00	ppb	0.00
78) 1,4-Dichlorobenzene-d4	14.17	152	406469	25.00	ppb	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	8.11	113	524994	26.47	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 105.88%			
42) 1,2-dichloroethane-d4	8.59	65	354077	25.97	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 103.88%			
59) Toluene-d8	10.67	98	1527084	26.73	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 106.92%			
79) 4-Bromofluorobenzene	13.19	95	550979	26.64	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 106.56%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.17	85	232614	11.28	ppb	98
3) Chloromethane	3.47	50	275146	10.36	ppb	100
4) Vinyl chloride	3.62	62	191360	10.62	ppb	97
5) Bromomethane	4.14	96	196009	10.13	ppb	96
6) Chloroethane	4.28	64	140708	10.16	ppb	98
7) Trichlorofluoromethane	4.58	101	237043	10.17	ppb	98
8) Ethanol	4.84	45	42535	216.68	ppb	99
9) Diethyl Ether	4.96	59	129990	10.77	ppb	93
10) Acrolein	5.21	56	201984	91.65	ppb	99
11) 1,1,2-Trichloro-1,2,2-trif	5.23	101	176370	10.23	ppb	98
12) 1,1-Dichloroethene	5.30	96	164517	10.33	ppb	99
13) Acetone	5.41	43	163016	39.20	ppb	97
14) Iodomethane	5.55	142	136922	8.86	ppb	99
15) Carbon Disulfide	5.64	76	545963	10.39	ppb	99
16) Methyl Acetate	5.77	43	139358	9.68	ppb	98
17) Allyl chloride	5.76	76	93558	10.83	ppb	96
18) Acetonitrile	5.83	40	102154	92.68	ppb	100
19) Methylene chloride	5.95	84	206384	10.15	ppb	98
20) tert-Butanol	5.98	59	705559	518.25	ppb	99
21) Methyl-t-butyl-ether	6.20	73	747535	21.38	ppb	98
22) trans-1,2-Dichloroethene	6.24	96	183176	10.51	ppb	100
23) Acrylonitrile	6.30	53	574848	104.59	ppb	99
24) Hexane	6.20	57	188883	10.94	ppb	98
25) Isopropyl ether	6.75	45	773558	10.59	ppb	99
26) Vinyl Acetate	6.79	43	412392	10.20	ppb	99
27) 1,1-Dichloroethane	6.81	63	341771	10.85	ppb	100
28) Chloroprene	6.89	53	223125	10.80	ppb	99
29) Ethyl tert-butyl ether	7.19	59	540678	10.73	ppb	99
30) 2,2-Dichloropropane	7.52	77	202949	11.21	ppb	99
31) 2-Butanone	7.54	43	323717	40.30	ppb	99
32) cis-1,2-Dichloroethene	7.54	96	205128	10.22	ppb	94
33) Propionitrile	7.69	54	198003	104.53	ppb	99
34) Methacrylonitrile	7.85	67	53173	11.21	ppb	93
35) Bromochloromethane	7.85	128	93346	10.81	ppb	94
36) Chloroform	7.90	83	303213	10.51	ppb	97
38) 1,1,1-Trichloroethane	8.14	97	224700	10.57	ppb	98
39) Cyclohexane	8.15	84	427946	20.86	ppb	99
40) Carbon tetrachloride	8.32	117	167074	10.67	ppb	99
41) 1,1-Dichloropropene	8.34	75	214457	10.59	ppb	99
43) Isobutyl alcohol	8.38	43	150607	213.73	ppb	97

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021712\C34496.D Vial: 7
Acq On : 17 Feb 2012 11:41 Operator: sdw-sop525r15
Sample : VL120217-3LCSD Inst : CSS Instr
Misc : UN-Heated Purge - 10ppb Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 17 12:12 2012 Quant Results File: 012412W.RES

Quant Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration
DataAcq Meth : 012412W

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
44)	tert-Amyl methyl ether	8.64	87	88757	11.26 ppb		96
45)	Benzene	8.59	78	673299	10.59 ppb		99
46)	1,2-Dichloroethane	8.68	62	176096	10.59 ppb		98
47)	n-Butanol	9.19	56	206124	552.21 ppb	#	99
48)	Trichloroethene	9.36	130	166013	10.39 ppb		98
49)	Methyl Cyclohexane	9.53	55	217941	10.21 ppb		98
50)	1,2-Dichloropropane	9.66	63	201029	10.82 ppb		98
51)	Methyl methacrylate	9.68	69	90729	11.13 ppb		93
52)	1,4-Dioxane	9.80	88	26015	216.42 ppb		94
53)	Dibromomethane	9.81	93	114665	10.84 ppb		96
54)	Bromodichloromethane	9.95	83	220802	10.82 ppb		99
55)	2-Chloroethyl vinyl ether	10.23	63	72924	12.80 ppb		96
56)	cis-1,3-Dichloropropene	10.43	75	287659	11.16 ppb		99
57)	4-Methyl-2-Pentanone	10.54	43	702216	42.26 ppb		100
60)	Toluene	10.75	91	652780	10.54 ppb		98
61)	Ethyl methacrylate	10.99	69	182407	10.84 ppb		99
62)	trans-1,3-Dichloropropene	11.01	75	233252	11.41 ppb		99
63)	1,1,2-Trichloroethane	11.20	83	131464	10.81 ppb		97
64)	Tetrachloroethene	11.29	164	135526	10.29 ppb		97
65)	2-Hexanone	11.38	58	230986	42.29 ppb		99
66)	1,3-Dichloropropane	11.38	76	236424	11.02 ppb		97
67)	Dibromochloromethane	11.60	129	164142	10.82 ppb		98
68)	1,2-Dibromoethane	11.74	107	156973	10.68 ppb		95
69)	1-Chlorohexane	12.06	91	227884	10.61 ppb		98
70)	Chlorobenzene	12.17	112	458272	10.81 ppb		98
71)	Ethylbenzene	12.21	91	692350	10.61 ppb		99
72)	1,1,1,2-Tetrachloroethane	12.24	131	150045	11.04 ppb		98
73)	m,p-Xylene	12.32	106	539800	21.42 ppb		100
74)	o-Xylene	12.69	106	275185	10.83 ppb		98
75)	Styrene	12.71	104	486831	11.00 ppb		100
76)	Bromoform	12.94	173	94931	10.71 ppb		96
77)	Isopropylbenzene	12.99	105	638582	10.71 ppb		100
80)	1,1,2,2-Tetrachloroethane	13.31	83	185748	10.66 ppb		98
81)	trans-1,4-Dichloro-2-buten	13.35	53	39459	11.29 ppb		95
82)	n-Propylbenzene	13.35	91	817097	10.70 ppb		99
83)	1,2,3-Trichloropropane	13.37	110	45760	11.26 ppb		91
84)	Bromobenzene	13.35	156	176234	10.73 ppb		99
85)	1,3,5-Trimethylbenzene	13.48	105	543255	10.92 ppb		99
86)	2-Chlorotoluene	13.48	126	160938	10.65 ppb		90
87)	4-Chlorotoluene	13.57	126	161541	10.85 ppb		94
88)	tert-Butylbenzene	13.76	134	97336	10.55 ppb		96
89)	1,2,4-Trimethylbenzene	13.81	105	512444	10.51 ppb		100
90)	sec-Butylbenzene	13.94	105	697455	10.40 ppb		100
91)	p-Isopropyltoluene	14.04	119	517367	10.58 ppb		99
92)	1,3-Dichlorobenzene	14.12	146	300616	10.75 ppb		98
93)	1,4-Dichlorobenzene	14.19	146	300253	10.63 ppb		98
94)	2-Ethylhexanol	0.00	57	0	N.D. d		
95)	n-Butylbenzene	14.38	91	521642	10.60 ppb		99
96)	1,2-Dichlorobenzene	14.51	146	283159	10.74 ppb		99
97)	Hexachloroethane	14.70	119	97530	10.54 ppb		98
98)	1,2-Dibromo-3-chloropropan	15.18	157	26796	10.67 ppb		95
99)	1,2,4-Trichlorobenzene	15.90	180	187501	10.84 ppb		98
100)	Hexachlorobutadiene	15.97	225	72388	10.29 ppb		98
101)	Naphthalene	16.17	128	402432	10.85 ppb		100

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

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021712\C34496.D Vial: 7
Acq On : 17 Feb 2012 11:41 Operator: sdw-sop525r15
Sample : VL120217-3LCSD Inst : CSS Instr
Misc : UN-Heated Purge - 10ppb Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 17 12:12 2012 Quant Results File: 012412W.RES

Quant Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration
DataAcq Meth : 012412W

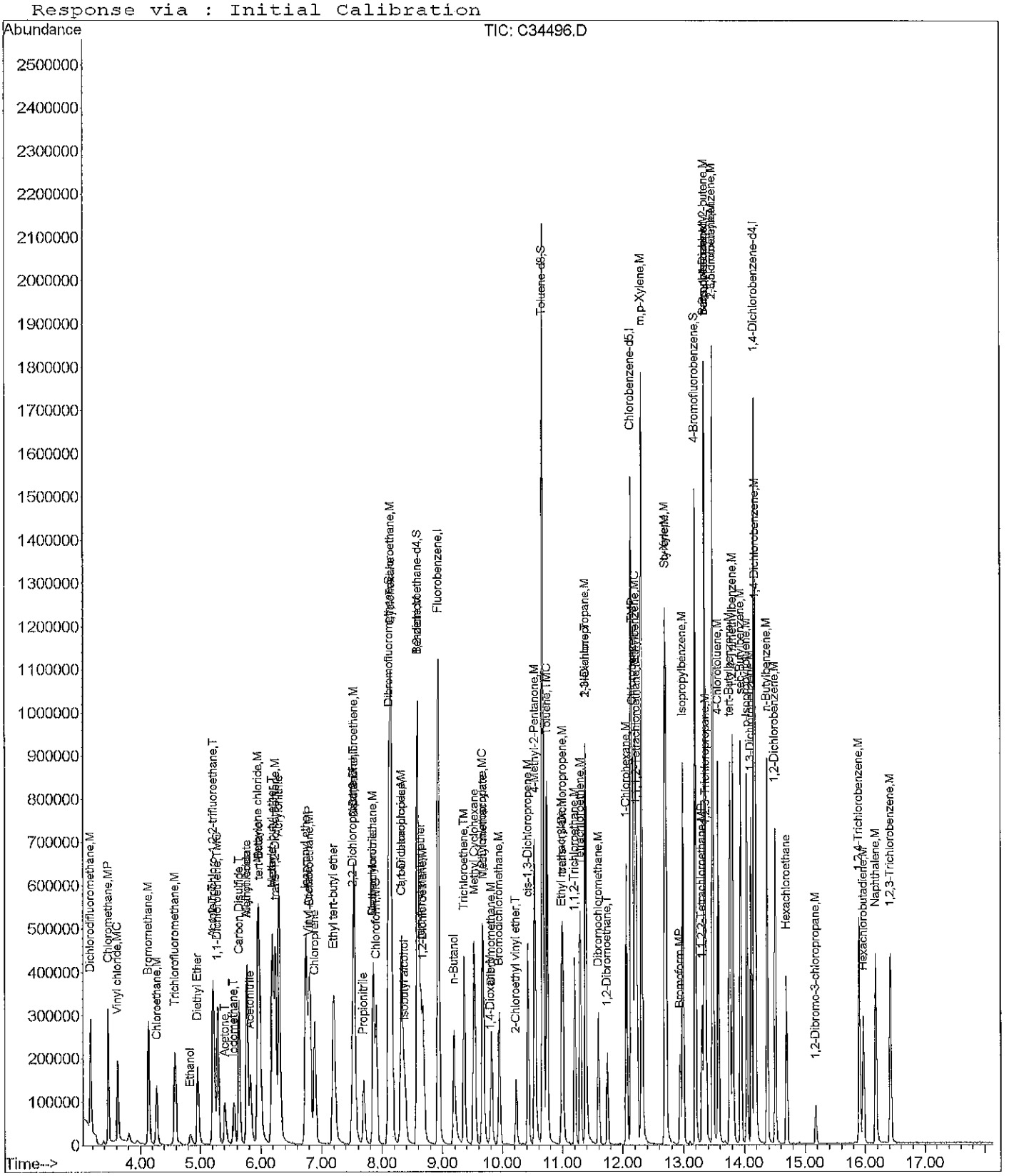
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
102) 1,2,3-Trichlorobenzene	16.42	180	171118	11.21	ppb	97

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021712\C34496.D Vial: 7
Acq On : 17 Feb 2012 11:41 Operator: sdw-sop525r15
Sample : VL120217-3LCSD Inst : CSS Instr
Misc : UN-Heated Purge - 10ppb Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 17 12:12 2012 Quant Results File: 012412W.RES

Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021712\C34498.D Vial: 9
Acq On : 17 Feb 2012 12:27 Operator: sdw-sop525r15
Sample : VL120217-3MB Inst : CSS Instr
Misc : UN-Heated Purge Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 17 13:14 2012 Quant Results File: 012412W.RES

Quant Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration
DataAcq Meth : 012412W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	8.94	96	1342844	25.00	ppb	0.00
58) Chlorobenzene-d5	12.14	82	487973	25.00	ppb	0.00
78) 1,4-Dichlorobenzene-d4	14.17	152	411091	25.00	ppb	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	8.11	113	534004	26.12	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 104.48%			
42) 1,2-dichloroethane-d4	8.59	65	374305	26.64	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 106.56%			
59) Toluene-d8	10.67	98	1561988	25.98	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 103.92%			
79) 4-Bromofluorobenzene	13.20	95	561238	26.83	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 107.32%			
Target Compounds						Qvalue

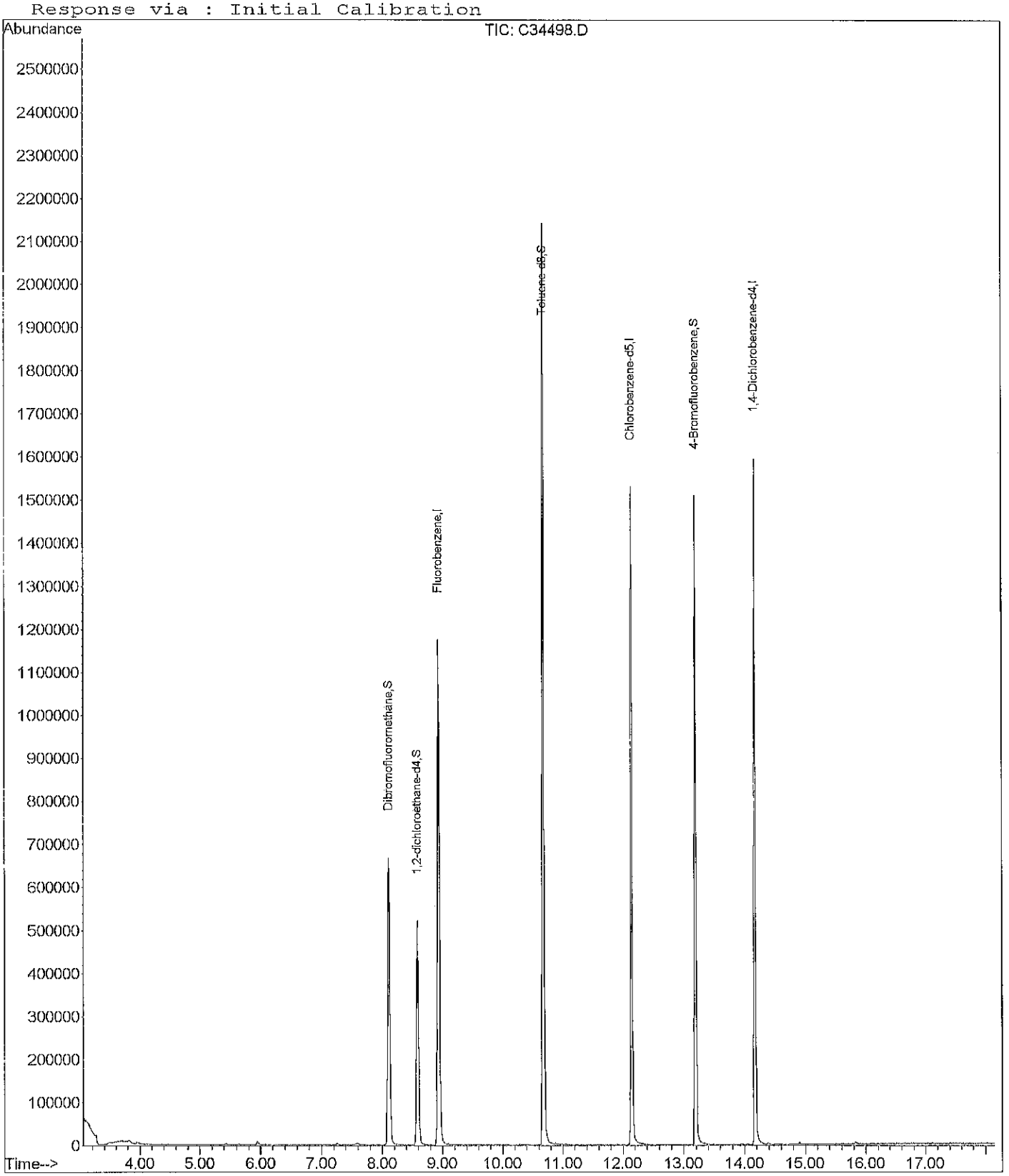
GPW 2/20/12

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021712\C34498.D Vial: 9
Acq On : 17 Feb 2012 12:27 Operator: sdw-sop525r15
Sample : VL120217-3MB Inst : CSS Instr
Misc : UN-Heated Purge Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 17 13:14 2012 Quant Results File: 012412W.RES

Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration



Tentatively Identified Compound (LSC) summary

Operator ID: sdw-sop525r15 Date Acquired: 17 Feb 2012 12:27
Data File: C:\HPCHEM\1\DATA\021712\C34498.D
Name: VL120217-3MB
Misc: UN-Heated Purge
Method: C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title: GC/MS Volatiles (S.O.P. 525)
Library Searched: C:\DATABASE\NIST129k.l

TIC Top Hit name	RT	EstConc	Units	Area	IntStd	ISRT	ISArea	ISConc

C34498.D 012412W.M Sat Feb 18 12:24:41 2012

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\021712\C34511.D Vial: 22
Acq On : 17 Feb 2012 17:30 Operator: sdw-sop525r15
Sample : 1202195-1 Inst : CSS Instr
Misc : UN-Heated Purge Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 18 11:59 2012 Quant Results File: 012412W.RES

Quant Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration
DataAcq Meth : 012412W

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	8.93	96	1199497	25.00	ppb	0.00
58) Chlorobenzene-d5	12.14	82	433757	25.00	ppb	0.00
78) 1,4-Dichlorobenzene-d4	14.17	152	372264	25.00	ppb	0.00
System Monitoring Compounds						
37) Dibromofluoromethane	8.11	113	462265	25.31	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 101.24%			
42) 1,2-dichloroethane-d4	8.58	65	346788	27.63	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 110.52%			
59) Toluene-d8	10.67	98	1400190	26.20	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 104.80%			
79) 4-Bromofluorobenzene	13.19	95	511002	26.98	ppb	0.00
Spiked Amount 25.000	Range 85 - 115		Recovery = 107.92%			

Target Compounds Qvalue

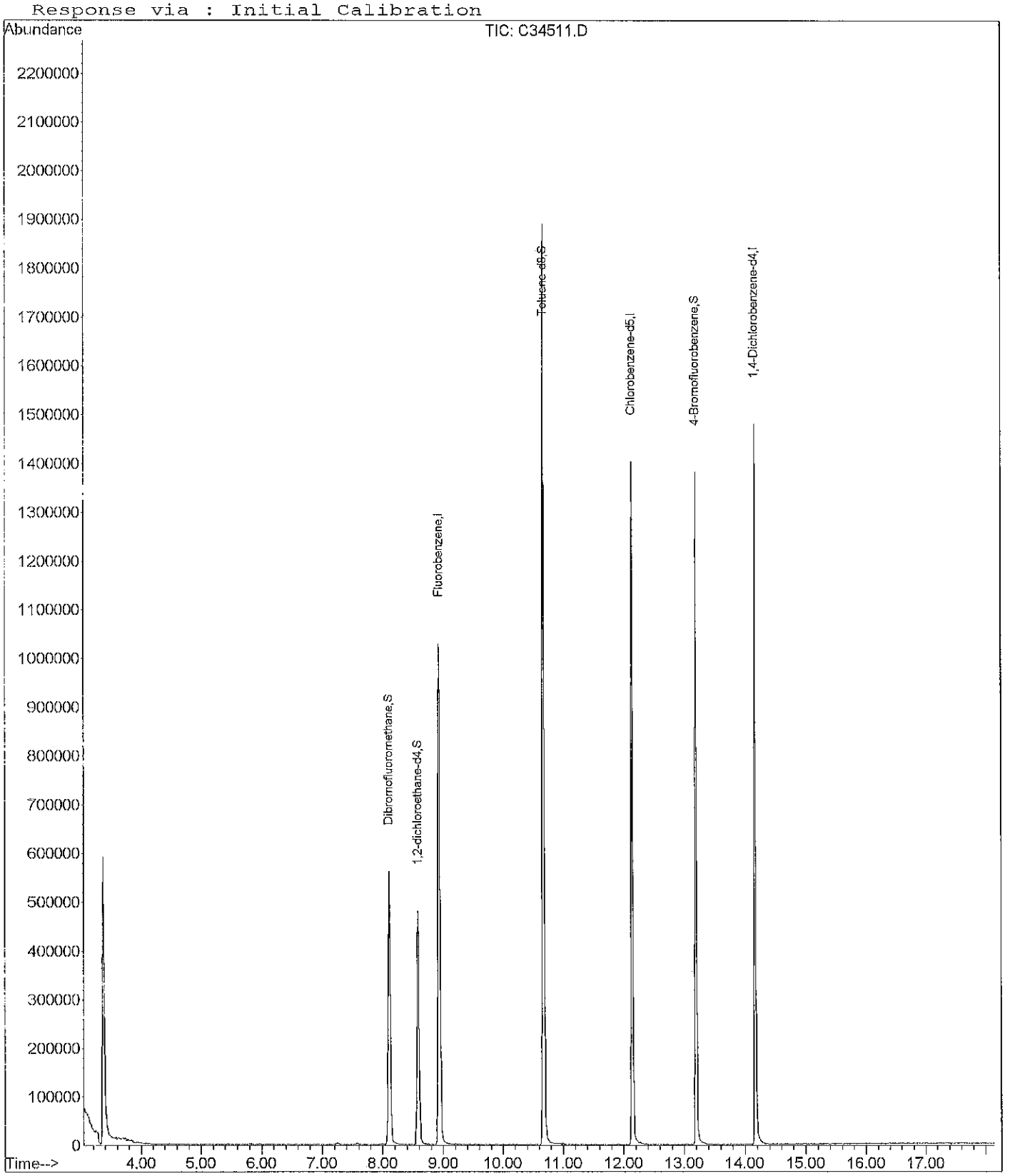
GW 2/20/12

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

Quantitation Report

Data File : C:\HPCHEM\1\DATA\021712\C34511.D Vial: 22
Acq On : 17 Feb 2012 17:30 Operator: sdw-sop525r15
Sample : 1202195-1 Inst : CSS Instr
Misc : UN-Heated Purge Multiplr: 1.00
MS Integration Params: ettics.p
Quant Time: Feb 18 11:59 2012 Quant Results File: 012412W.RES

Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Last Update : Fri Jan 27 08:42:40 2012
Response via : Initial Calibration



Library Search Compound Report

Data File : C:\HPCHEM\1\DATA\021712\C34511.D
Acq On : 17 Feb 2012 17:30
Sample : 1202195-1
Misc : UN-Heated Purge
MS Integration Params: ETTICS.P

Vial: 22
Operator: sdw-sop525r15
Inst : CSS Instr
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\012412W.M (RTE Integrator)
Title : GC/MS Volatiles (S.O.P. 525)
Library : C:\DATABASE\NIST129k.l

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Peak Number 1 Sulfur dioxide $$ Fermenicide Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.36	14.17 ppb	1377250	Fluorobenzene	8.93

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Sulfur dioxide $$ Fermenicide powde	64	O2S	007446-09-5	83
2	Aminomethanesulfonic acid $$ Methan	111	CH5NO3S	013881-91-9	4
3	Ethyl Chloride	64	C2H5Cl	000075-00-3	3
4	Ethene, 1,1-difluoro-	64	C2H2F2	000075-38-7	3