New Jersey
ACCUTEST LABORATORIES

02/17/12

Technical Report for

Anderson, Mulholland & Associates

BMSMC, Building 5 Area, PR

SM04.00.06

Accutest Job Number: JA98695

Sampling Date: 02/02/12

Report to:

Anderson, Mulholland & Associates

ttaylor@amaiconsult.com

ATTN: Terry Taylor

Total number of pages in report: **324**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

David N. Speis
VP, Laboratory Director

Client Service contact: Tammy McCloskey 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

Accutest Laboratories is the sole authority for authorizing edits or modifications to this document. Unauthorized modification of this report is strictly prohibited.

Sections: 1 2 3 4 5 6 7 8 9

Table of Contents

-1-

Section 1: Sample Summary **4**
Section 2: Case Narrative/Conformance Summary **5**
Section 3: Sample Results **7**
3.1: JA98695-1: I-7A 8
3.2: JA98695-2: I-1R3A 10
Section 4: Misc. Forms **12**
4.1: Chain of Custody 13
4.2: Sample Tracking Chronicle 15
4.3: Internal Chain of Custody 16
Section 5: GC/MS Volatiles - QC Data Summaries **17**
5.1: Method Blank Summary 18
5.2: Blank Spike Summary 20
5.3: Matrix Spike Summary 22
5.4: Matrix Spike/Matrix Spike Duplicate Summary 23
5.5: Duplicate Summary 24
5.6: Instrument Performance Checks (BFB) 25
5.7: Internal Standard Area Summaries 29
5.8: Surrogate Recovery Summaries 31
5.9: Initial and Continuing Calibration Summaries 32
Section 6: GC/MS Volatiles - Raw Data **59**
6.1: Samples 60
6.2: Method Blanks 68
6.3: Blank Spikes 72
6.4: Matrix Spike/Matrix Spike Duplicates 80
6.5: Duplicates 92
6.6: Instrument Performance Checks (BFB) 94
6.7: Initial and Continuing Calibarations 102
6.8: Instrument Run Logs 213
Section 7: GC Volatiles - QC Data Summaries **220**
7.1: Method Blank Summary 221
7.2: Blank Spike Summary 223
7.3: Matrix Spike/Matrix Spike Duplicate Summary 225
7.4: GC Identification Summaries (Hits) 227
7.5: Surrogate Recovery Summaries 233
7.6: GC Surrogate Retention Time Summaries 234
7.7: Initial and Continuing Calibration Summaries 236
Section 8: GC Volatiles - Raw Data **243**
8.1: Samples 244
8.2: Method Blanks 248
8.3: Blank Spikes 252
8.4: Matrix Spike/Matrix Spike Duplicates 256
8.5: Initial and Continuing Calibarations 264

Table of Contents

8.6: Instrument Run Logs 318
Section 9: General Chemistry - QC Data Summaries 323
9.1: Percent Solids Raw Data Summary 324

Sample Summary

Anderson, Mulholland & Associates

Job No: JA98695

BMSMC, Building 5 Area, PR
Project No: SM04.00.06

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
JA98695-1	02/02/12	13:39	NR	02/04/12	SO	Soil	I-7A
JA98695-2	02/02/12	15:40	NR	02/04/12	SO	Soil	I-1R3A

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Anderson, Mulholland & Associates	**Job No**	JA98695
Site:	BMSMC, Building 5 Area, PR	**Report Date**	2/17/2012 8:42:53 AM

On 02/04/2012, 2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were received at Accutest Laboratories at a temperature of 2 C. Samples were intact and chemically preserved, unless noted below. An Accutest Job Number of JA98695 was assigned to the project. Laboratory sample ID, client sample ID and dates of sample collection are detailed in the report's Results Summary Section.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix: SO **Batch ID:** VV5348

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA98956-3MS, JA98956-8DUP were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Acetone are outside in house control limits.

Matrix: SO **Batch ID:** VX5283

- All samples were analyzed within the recommended method holding time.
- Sample(s) JA98960-6MS, JA98960-6MSD were used as the QC samples indicated.
- All method blanks for this batch meet method specific criteria.
- Matrix Spike Recovery(s) for Acetone are outside control limits. Outside control limits due to matrix interference.

Volatiles by GC By Method SW846-8015 (DAI)

Matrix: SO **Batch ID:** GGH3957

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA98540-8MS, JA98540-8MSD were used as the QC samples indicated.

Matrix: SO **Batch ID:** GGH3960

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA98540-2MS, JA98540-2MSD were used as the QC samples indicated.
- Matrix Spike Recovery(s) for Methanol are outside control limits. Outside control limits due to matrix interference.
- Matrix Spike Duplicate Recovery(s) for Methanol are outside control limits. Outside control limits due to matrix interference.
- Sample(s) JA98695-1 have surrogates outside control limits.
- JA98695-1 for Hexanol: Outside in house QC limits. Data reported from the second channel.

Wet Chemistry By Method SM18 2540G

Matrix: SO **Batch ID:** GN61601

- The data for SM18 2540G meets quality control requirements.

Accutest certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting Accutest's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

Accutest Laboratories is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. Data release is authorized by Accutest Laboratories indicated via signature on the report cover

New Jersey

ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Accutest LabLink@658230 12:34 17-Feb-2012

Report of Analysis

Client Sample ID:	I-7A		
Lab Sample ID:	JA98695-1	**Date Sampled:**	02/02/12
Matrix:	SO - Soil	**Date Received:**	02/04/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	82.3
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	X123648.D	1	02/11/12	TYG	02/04/12 14:00	n/a	VX5283
Run #2							

	Initial Weight
Run #1	5.5 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	11	7.3	ug/kg	
71-43-2	Benzene	ND	1.1	0.15	ug/kg	
100-41-4	Ethylbenzene	ND	1.1	0.16	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.5	2.9	ug/kg	
108-88-3	Toluene	ND	1.1	0.42	ug/kg	
1330-20-7	Xylene (total)	ND	1.1	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	106%		67-131%
17060-07-0	1,2-Dichloroethane-D4	95%		66-130%
2037-26-5	Toluene-D8	114%		76-125%
460-00-4	4-Bromofluorobenzene	99%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@658230 12:34 17-Feb-2012

Report of Analysis

Client Sample ID:	I-7A		
Lab Sample ID:	JA98695-1	**Date Sampled:**	02/02/12
Matrix:	SO - Soil	**Date Received:**	02/04/12
Method:	SW846-8015 (DAI)	**Percent Solids:**	82.3
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH86344.D	1	02/09/12	XPL	n/a	n/a	GGH3960
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	120	46	ug/kg	
67-56-1	Methanol	ND	240	62	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	42% [a]		58-137%
111-27-3	Hexanol	61%		58-137%

(a) Outside in house QC limits. Data reported from the second channel.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@658230 12:34 17-Feb-2012

Report of Analysis

Client Sample ID:	I-1R3A		
Lab Sample ID:	JA98695-2	**Date Sampled:**	02/02/12
Matrix:	SO - Soil	**Date Received:**	02/04/12
Method:	SW846 8260B SW846 5035	**Percent Solids:**	80.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	V124257A.D	1	02/13/12	CL	02/04/12 14:00	n/a	VV5348
Run #2							

	Initial Weight
Run #1	5.8 g
Run #2	

VOA Special List

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	29.6	11	7.1	ug/kg	
71-43-2	Benzene	ND	1.1	0.14	ug/kg	
100-41-4	Ethylbenzene	12.1	1.1	0.16	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.4	2.8	ug/kg	
108-88-3	Toluene	ND	1.1	0.41	ug/kg	
1330-20-7	Xylene (total)	34.6	1.1	0.20	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	105%		67-131%
17060-07-0	1,2-Dichloroethane-D4	99%		66-130%
2037-26-5	Toluene-D8	110%		76-125%
460-00-4	4-Bromofluorobenzene	99%		53-142%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Accutest LabLink@658230 12:34 17-Feb-2012

Report of Analysis

Client Sample ID:	I-1R3A		
Lab Sample ID:	JA98695-2	**Date Sampled:**	02/02/12
Matrix:	SO - Soil	**Date Received:**	02/04/12
Method:	SW846-8015 (DAI)	**Percent Solids:**	80.4
Project:	BMSMC, Building 5 Area, PR		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GH86291.D	1	02/07/12	XPL	n/a	n/a	GGH3957
Run #2							

	Initial Weight
Run #1	5.0 g
Run #2	

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	120	47	ug/kg	
67-56-1	Methanol	ND	250	64	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
111-27-3	Hexanol	90%		58-137%
111-27-3	Hexanol	112%		58-137%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

New Jersey
ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

SLL

ACCUTEST LABORATORIES

CHAIN OF CUSTODY

2235 Route 130, Dayton, NJ 08810
Tel: 732-329-0200 FAX: 732-329-3499/3480
www.acutest.com

PAGE ___ OF ___

Bottle Order Control # 873744211774

Accutest Quote #

Accutest Job # JA98695

Client / Reporting Information

Company Name: AMAT
Street Address: 110 Corporate Park Dr.
City: White Plains State: NY Zip: 10604
Project Contact: Terry Taylor E-mail:
Phone #: BMJ-Building 5 Fax #:
Sampler(s) Name(s): Nestor Rivera Phone #:

Project Information

Project Name: BMJ-Building 5
Street:
City: Humacao State: PR
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (if different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB-Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VOCs, IPA, Methanol	% Solids									LAB USE ONLY
-1	I-7A		2/2/2012	1339	NR	SO	5					2			3	✓	✓									
-2	A-1R3A		2/2/2012	1540	NR	SO	5					2			3	✓	✓									% 10
																										14F3
																										4088

Turnaround Time (Business days)

- ☐ Std. 15 Business Days
- ☐ Std. 10 Business Days (by Contract only)
- ☐ 10 Day *RUSH*
- ☒ 5 Day *RUSH*
- ☐ 3 Day *EMERGENCY*
- ☐ 2 Day *EMERGENCY*
- ☐ 1 Day *EMERGENCY*

Emergency & Rush T/A date available VIA Lablink

Approved By (Accutest PM): / Date:

Data Deliverable information

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☒ FULLT1 (Level 3+4)
- ☐ NJ Reduced
- ☐ Commercial "C"
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ State Forms
- ☐ EDD Format
- ☐ Other

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

VOCs = BTEX, Acetone, MIBK
• 5 ENCORES 2/4/12

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	2/3/2012 0915	1 Fed Ex	2 Fed Ex	2/4/12 1215	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 878 ☒ Intact ☐ Not intact	Preserved where applicable ☐	On Ice ☑ Cooler Temp. 2.0°C

JA98695: Chain of Custody
Page 1 of 2

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: JA98695 **Client:**

Date / Time Received: 2/4/2012 **Project:**

No. Coolers: 1 **Airbill #'s:** **Delivery Method:**

Cooler Security	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. COC Present:	☑		☐
4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Bar Therm		
3. Cooler media:	Ice (Bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:732.329.0200

2235 US Highway 130
F: 732.329.3499

Dayton, New Jersey
www/accutest.com

JA98695: Chain of Custody
Page 2 of 2

Internal Sample Tracking Chronicle

Anderson, Mulholland & Associates

Job No: JA98695

BMSMC, Building 5 Area, PR
Project No: SM04.00.06

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA98695-1	Collected: 02-FEB-12 13:39 By: NR		Received: 04-FEB-12 By: SC			
I-7A						
JA98695-1	SW846-8015 (DAI)	09-FEB-12 11:09	XPL			D8015IPA,DGC+METH
JA98695-1	SM18 2540G	10-FEB-12	WR			%SOL
JA98695-1	SW846 8260B	11-FEB-12 16:40	TYG			V8260SL3
JA98695-2	Collected: 02-FEB-12 15:40 By: NR		Received: 04-FEB-12 By: SC			
I-1R3A						
JA98695-2	SW846-8015 (DAI)	07-FEB-12 13:12	XPL			D8015IPA,DGC+METH
JA98695-2	SM18 2540G	10-FEB-12	WR			%SOL
JA98695-2	SW846 8260B	13-FEB-12 17:34	CL			V8260SL3

Accutest Internal Chain of Custody

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Received: 02/04/12

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA98695-1.1	Secured Storage	Todd Shoemaker	02/06/12 12:44	Retrieve from Storage
JA98695-1.1	Todd Shoemaker	Dean Jan	02/06/12 12:46	Custody Transfer
JA98695-1.1	Dean Jan	Secured Storage	02/06/12 14:25	Return to Storage
JA98695-1.1	Secured Storage	Todd Shoemaker	02/10/12 08:38	Retrieve from Storage
JA98695-1.1	Todd Shoemaker	Henry Stephen	02/10/12 08:40	Custody Transfer
JA98695-1.1	Henry Stephen	Secured Storage	02/10/12 16:47	Return to Storage
JA98695-1.3	Secured Storage	Frank Zhu	02/04/12 14:46	Retrieve from Storage
JA98695-1.3	Frank Zhu	Secured Storage	02/04/12 14:53	Return to Storage
JA98695-1.4	Secured Storage	Frank Zhu	02/04/12 14:46	Retrieve from Storage
JA98695-1.4	Frank Zhu	Secured Storage	02/04/12 14:53	Return to Storage
JA98695-1.4	Secured Storage	Ho Joong Kim	02/06/12 16:38	Retrieve from Storage
JA98695-1.4	Ho Joong Kim	GCMS3C	02/06/12 16:38	Load on Instrument
JA98695-1.4	GCMS3C	Juntae Park	02/14/12 16:21	Unload from Instrument
JA98695-1.4	Juntae Park	Secured Storage	02/14/12 16:21	Return to Storage
JA98695-1.5	Secured Storage	Frank Zhu	02/04/12 14:46	Retrieve from Storage
JA98695-1.5	Frank Zhu	Secured Storage	02/04/12 14:53	Return to Storage
JA98695-1.5	Secured Storage	Tamika Yvonne Ginn	02/10/12 15:54	Retrieve from Storage
JA98695-1.5	Tamika Yvonne Ginn	VOA Prep Storage	02/10/12 15:54	Return to Storage
JA98695-2.1	Secured Storage	Todd Shoemaker	02/06/12 12:44	Retrieve from Storage
JA98695-2.1	Todd Shoemaker	Dean Jan	02/06/12 12:46	Custody Transfer
JA98695-2.1	Dean Jan	Secured Storage	02/06/12 14:25	Return to Storage
JA98695-2.1	Secured Storage	Todd Shoemaker	02/10/12 08:38	Retrieve from Storage
JA98695-2.1	Todd Shoemaker	Henry Stephen	02/10/12 08:40	Custody Transfer
JA98695-2.1	Henry Stephen	Secured Storage	02/10/12 16:47	Return to Storage
JA98695-2.3	Secured Storage	Frank Zhu	02/04/12 14:46	Retrieve from Storage
JA98695-2.3	Frank Zhu	Secured Storage	02/04/12 14:53	Return to Storage
JA98695-2.3	Secured Storage	Ho Joong Kim	02/13/12 17:12	Retrieve from Storage
JA98695-2.3	Ho Joong Kim	Secured Storage	02/13/12 17:12	Return to Storage
JA98695-2.4	Secured Storage	Frank Zhu	02/04/12 14:46	Retrieve from Storage
JA98695-2.4	Frank Zhu	Secured Storage	02/04/12 14:53	Return to Storage
JA98695-2.4	Secured Storage	Ho Joong Kim	02/13/12 17:11	Retrieve from Storage
JA98695-2.4	Ho Joong Kim	GCMSV	02/13/12 17:11	Load on Instrument
JA98695-2.4	GCMSV	Conor Lennon	02/14/12 09:48	Unload from Instrument
JA98695-2.4	Conor Lennon		02/14/12 09:50	Depleted
JA98695-2.5	Secured Storage	Frank Zhu	02/04/12 14:46	Retrieve from Storage
JA98695-2.5	Frank Zhu	Secured Storage	02/04/12 14:53	Return to Storage

New Jersey
ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (BFB)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX5283-MB	X123640.D	1	02/11/12	TYG	n/a	n/a	VX5283

The QC reported here applies to the following samples: **Method:** SW846 8260B

JA98695-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.6	ug/kg	
71-43-2	Benzene	ND	1.0	0.13	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.6	ug/kg	
108-88-3	Toluene	ND	1.0	0.38	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.18	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	108%	67-131%
17060-07-0	1,2-Dichloroethane-D4	95%	66-130%
2037-26-5	Toluene-D8	117%	76-125%
460-00-4	4-Bromofluorobenzene	98%	53-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Method Blank Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV5348-MB	V124247.D	1	02/13/12	CL	n/a	n/a	VV5348

The QC reported here applies to the following samples: **Method:** SW846 8260B

JA98695-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	10	6.6	ug/kg	
71-43-2	Benzene	ND	1.0	0.13	ug/kg	
100-41-4	Ethylbenzene	ND	1.0	0.15	ug/kg	
108-10-1	4-Methyl-2-pentanone(MIBK)	ND	5.0	2.6	ug/kg	
108-88-3	Toluene	ND	1.0	0.38	ug/kg	
1330-20-7	Xylene (total)	ND	1.0	0.18	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	67-131%
17060-07-0	1,2-Dichloroethane-D4	99%	66-130%
2037-26-5	Toluene-D8	111%	76-125%
460-00-4	4-Bromofluorobenzene	99%	53-142%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Total TIC, Volatile		0	ug/kg	

Blank Spike Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VX5283-BS	X123640A.D	1	02/11/12	TYG	n/a	n/a	VX5283

The QC reported here applies to the following samples: **Method:** SW846 8260B

JA98695-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	58.4	117	48-154
71-43-2	Benzene	50	54.3	109	76-120
100-41-4	Ethylbenzene	50	52.6	105	75-125
108-10-1	4-Methyl-2-pentanone(MIBK)	50	60.3	121	69-135
108-88-3	Toluene	50	56.3	113	77-124
1330-20-7	Xylene (total)	150	160	107	78-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	111%	67-131%
17060-07-0	1,2-Dichloroethane-D4	99%	66-130%
2037-26-5	Toluene-D8	115%	76-125%
460-00-4	4-Bromofluorobenzene	94%	53-142%

Blank Spike Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VV5348-BS	V124248.D	1	02/13/12	CL	n/a	n/a	VV5348

The QC reported here applies to the following samples: **Method:** SW846 8260B

JA98695-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-64-1	Acetone	50	47.1	94	48-154
71-43-2	Benzene	50	56.7	113	76-120
100-41-4	Ethylbenzene	50	52.3	105	75-125
108-10-1	4-Methyl-2-pentanone(MIBK)	50	52.7	105	69-135
108-88-3	Toluene	50	57.2	114	77-124
1330-20-7	Xylene (total)	150	154	103	78-124

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	100%	67-131%
17060-07-0	1,2-Dichloroethane-D4	103%	66-130%
2037-26-5	Toluene-D8	113%	76-125%
460-00-4	4-Bromofluorobenzene	108%	53-142%

Matrix Spike Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA98956-3MS	V124255.D	1	02/13/12	CL	n/a	n/a	VV5348
JA98956-3	V124252.D	1	02/13/12	CL	n/a	n/a	VV5348

The QC reported here applies to the following samples: **Method:** SW846 8260B

JA98695-2

CAS No.	Compound	JA98956-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Limits
67-64-1	Acetone	ND		52.2	123	236* [a]	12-189
71-43-2	Benzene	ND		52.2	48.6	93	37-132
100-41-4	Ethylbenzene	ND		52.2	43.9	84	20-144
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		52.2	58.7	112	36-145
108-88-3	Toluene	ND		52.2	48.4	93	29-138
1330-20-7	Xylene (total)	ND		157	128	82	18-145

CAS No.	Surrogate Recoveries	MS	JA98956-3	Limits
1868-53-7	Dibromofluoromethane	102%	105%	67-131%
17060-07-0	1,2-Dichloroethane-D4	103%	102%	66-130%
2037-26-5	Toluene-D8	111%	111%	76-125%
460-00-4	4-Bromofluorobenzene	108%	100%	53-142%

(a) Outside in house control limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA98960-6MS	X123649.D	1	02/11/12	TYG	n/a	n/a	VX5283
JA98960-6MSD	X123650.D	1	02/11/12	TYG	n/a	n/a	VX5283
JA98960-6	X123647.D	1	02/11/12	TYG	n/a	n/a	VX5283

The QC reported here applies to the following samples: **Method:** SW846 8260B

JA98695-1

CAS No.	Compound	JA98960-6 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	27.2		69.8	160	190* [a]	132	156	19	12-189/33
71-43-2	Benzene	ND		69.8	54.4	78	48.9	73	11	37-132/21
100-41-4	Ethylbenzene	ND		69.8	52.2	75	44.6	66	16	20-144/25
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		69.8	64.6	93	58.3	87	10	36-145/26
108-88-3	Toluene	3.3		69.8	62.1	84	52.3	73	17	29-138/23
1330-20-7	Xylene (total)	ND		209	159	76	135	67	16	18-145/25

CAS No.	Surrogate Recoveries	MS	MSD	JA98960-6	Limits
1868-53-7	Dibromofluoromethane	111%	111%	108%	67-131%
17060-07-0	1,2-Dichloroethane-D4	98%	96%	95%	66-130%
2037-26-5	Toluene-D8	116%	116%	115%	76-125%
460-00-4	4-Bromofluorobenzene	97%	96%	99%	53-142%

(a) Outside control limits due to matrix interference.

Duplicate Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA98956-8DUP	V124258.D	1	02/13/12	CL	n/a	n/a	VV5348
JA98956-8	V124253.D	1	02/13/12	CL	n/a	n/a	VV5348

The QC reported here applies to the following samples: **Method:** SW846 8260B

JA98695-2

CAS No.	Compound	JA98956-8 ug/kg	Q	DUP ug/kg	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	34
71-43-2	Benzene	ND		ND		nc	14
100-41-4	Ethylbenzene	ND		ND		nc	12
108-10-1	4-Methyl-2-pentanone(MIBK)	ND		ND		nc	10
108-88-3	Toluene	ND		ND		nc	18
1330-20-7	Xylene (total)	ND		ND		nc	14

CAS No.	Surrogate Recoveries	DUP	JA98956-8	Limits
1868-53-7	Dibromofluoromethane	105%	105%	67-131%
17060-07-0	1,2-Dichloroethane-D4	102%	103%	66-130%
2037-26-5	Toluene-D8	113%	111%	76-125%
460-00-4	4-Bromofluorobenzene	100%	100%	53-142%

Instrument Performance Check (BFB)

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VV5294-BFB
Lab File ID: V123246.D
Instrument ID: GCMSV
Injection Date: 01/12/12
Injection Time: 09:47

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	14413	20.9		Pass
75	30.0 - 60.0% of mass 95	34496	50.0		Pass
95	Base peak, 100% relative abundance	68941	100.0		Pass
96	5.0 - 9.0% of mass 95	4760	6.90		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	61794	89.6		Pass
175	5.0 - 9.0% of mass 174	4644	6.74	(7.52) [a]	Pass
176	95.0 - 101.0% of mass 174	60133	87.2	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	4285	6.22	(7.13) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VV5294-IC5294	V123247.D	01/12/12	10:51	01:04	Initial cal 1
VV5294-IC5294	V123248.D	01/12/12	11:21	01:34	Initial cal 2
VV5294-IC5294	V123249.D	01/12/12	11:52	02:05	Initial cal 0.5
VV5294-IC5294	V123250.D	01/12/12	12:23	02:36	Initial cal 5
VV5294-IC5294	V123251.D	01/12/12	12:53	03:06	Initial cal 10
VV5294-IC5294	V123252.D	01/12/12	13:24	03:37	Initial cal 20
VV5294-ICC5294	V123253.D	01/12/12	13:55	04:08	Initial cal 50
VV5294-IC5294	V123254.D	01/12/12	14:26	04:39	Initial cal 100
VV5294-IC5294	V123255.D	01/12/12	14:57	05:10	Initial cal 200
VV5294-ICV5294	V123258.D	01/12/12	16:30	06:43	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VV5348-BFB
Lab File ID: V124244.D
Instrument ID: GCMSV
Injection Date: 02/13/12
Injection Time: 10:04

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	17304	21.5		Pass
75	30.0 - 60.0% of mass 95	41896	52.0		Pass
95	Base peak, 100% relative abundance	80584	100.0		Pass
96	5.0 - 9.0% of mass 95	5489	6.81		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	72269	89.7		Pass
175	5.0 - 9.0% of mass 174	5463	6.78	(7.56) [a]	Pass
176	95.0 - 101.0% of mass 174	71213	88.4	(98.5) [a]	Pass
177	5.0 - 9.0% of mass 176	4565	5.66	(6.41) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VV5348-CC5294	V124245.D	02/13/12	10:35	00:31	Continuing cal 20
VV5348-MB	V124247.D	02/13/12	11:44	01:40	Method Blank
VV5348-BS	V124248.D	02/13/12	12:19	02:15	Blank Spike
ZZZZZZ	V124250.D	02/13/12	13:25	03:21	(unrelated sample)
JA98956-3	V124252.D	02/13/12	15:02	04:58	(used for QC only; not part of job JA98695)
JA98956-8	V124253.D	02/13/12	15:33	05:29	(used for QC only; not part of job JA98695)
ZZZZZZ	V124254.D	02/13/12	16:04	06:00	(unrelated sample)
JA98956-3MS	V124255.D	02/13/12	16:35	06:31	Matrix Spike
JA98695-2	V124257A.D	02/13/12	17:34	07:30	I-1R3A
ZZZZZZ	V124257.D	02/13/12	18:04	08:00	(unrelated sample)
JA98956-8DUP	V124258.D	02/13/12	18:35	08:31	Duplicate
ZZZZZZ	V124259.D	02/13/12	19:05	09:01	(unrelated sample)
ZZZZZZ	V124260.D	02/13/12	19:36	09:32	(unrelated sample)

Instrument Performance Check (BFB)

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VX5242-BFB
Lab File ID: X122916.D
Instrument ID: GCMSX
Injection Date: 01/18/12
Injection Time: 18:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	10721	17.7		Pass
75	30.0 - 60.0% of mass 95	27384	45.3		Pass
95	Base peak, 100% relative abundance	60432	100.0		Pass
96	5.0 - 9.0% of mass 95	4015	6.64		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	50240	83.1		Pass
175	5.0 - 9.0% of mass 174	3919	6.48	(7.80) [a]	Pass
176	95.0 - 101.0% of mass 174	49616	82.1	(98.8) [a]	Pass
177	5.0 - 9.0% of mass 176	3354	5.55	(6.76) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX5242-IC5242	X122917.D	01/18/12	19:13	00:30	Initial cal 0.5
ZZZZZZ	X122917A.D	01/18/12	19:13	00:30	(unrelated sample)
VX5242-IC5242	X122918.D	01/18/12	19:42	00:59	Initial cal 1
ZZZZZZ	X122918A.D	01/18/12	19:42	00:59	(unrelated sample)
VX5242-IC5242	X122919.D	01/18/12	20:11	01:28	Initial cal 2
VX5242-IC5242	X122920.D	01/18/12	20:41	01:58	Initial cal 5
VX5242-IC5242	X122921.D	01/18/12	21:10	02:27	Initial cal 10
VX5242-IC5242	X122922.D	01/18/12	21:40	02:57	Initial cal 20
VX5242-ICC5242	X122923.D	01/18/12	22:09	03:26	Initial cal 50
VX5242-IC5242	X122924.D	01/18/12	22:39	03:56	Initial cal 100
VX5242-IC5242	X122925.D	01/18/12	23:08	04:25	Initial cal 200
VX5242-ICV5242	X122927.D	01/19/12	00:06	05:23	Initial cal verification 50

Instrument Performance Check (BFB)

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: VX5283-BFB
Lab File ID: X123638.D
Instrument ID: GCMSX
Injection Date: 02/11/12
Injection Time: 10:29

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	8687	16.7		Pass
75	30.0 - 60.0% of mass 95	23448	45.0		Pass
95	Base peak, 100% relative abundance	52093	100.0		Pass
96	5.0 - 9.0% of mass 95	3592	6.90		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	45272	86.9		Pass
175	5.0 - 9.0% of mass 174	3607	6.92	(7.97) [a]	Pass
176	95.0 - 101.0% of mass 174	44312	85.1	(97.9) [a]	Pass
177	5.0 - 9.0% of mass 176	2974	5.71	(6.71) [b]	Pass

(a) Value is % of mass 174
(b) Value is % of mass 176

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VX5283-CC5242	X123639A.D	02/11/12	11:28	00:59	Continuing cal 20
VX5283-MB	X123640.D	02/11/12	11:57	01:28	Method Blank
VX5283-BS	X123640A.D	02/11/12	12:33	02:04	Blank Spike
ZZZZZZ	X123642.D	02/11/12	13:41	03:12	(unrelated sample)
ZZZZZZ	X123643.D	02/11/12	14:11	03:42	(unrelated sample)
ZZZZZZ	X123644.D	02/11/12	14:41	04:12	(unrelated sample)
ZZZZZZ	X123645.D	02/11/12	15:10	04:41	(unrelated sample)
ZZZZZZ	X123646.D	02/11/12	15:40	05:11	(unrelated sample)
JA98960-6	X123647.D	02/11/12	16:10	05:41	(used for QC only; not part of job JA98695)
JA98695-1	X123648.D	02/11/12	16:40	06:11	I-7A
JA98960-6MS	X123649.D	02/11/12	17:09	06:40	Matrix Spike
JA98960-6MSD	X123650.D	02/11/12	17:39	07:10	Matrix Spike Duplicate
ZZZZZZ	X123652.D	02/11/12	18:38	08:09	(unrelated sample)
ZZZZZZ	X123653.D	02/11/12	19:08	08:39	(unrelated sample)
ZZZZZZ	X123654.D	02/11/12	19:38	09:09	(unrelated sample)
ZZZZZZ	X123655.D	02/11/12	20:07	09:38	(unrelated sample)
ZZZZZZ	X123656.D	02/11/12	20:36	10:07	(unrelated sample)
ZZZZZZ	X123657.D	02/11/12	21:06	10:37	(unrelated sample)
ZZZZZZ	X123659.D	02/11/12	21:35	11:06	(unrelated sample)
ZZZZZZ	X123660.D	02/11/12	22:05	11:36	(unrelated sample)

Volatile Internal Standard Area Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VV5348-CC5294	**Injection Date:**	02/13/12
Lab File ID:	V124245.D	**Injection Time:**	10:35
Instrument ID:	GCMSV	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	104664	6.80	352975	9.02	532933	9.97	533180	13.39	301471	16.01
Upper Limit [a]	209328	7.30	705950	9.52	1065866	10.47	1066360	13.89	602942	16.51
Lower Limit [b]	52332	6.30	176488	8.52	266467	9.47	266590	12.89	150736	15.51

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VV5348-MB	79082	6.80	329479	9.03	505736	9.97	527087	13.39	260876	16.01
VV5348-BS	113680	6.80	344679	9.02	513390	9.97	515376	13.39	293512	16.01
ZZZZZZ	96715	6.81	324006	9.02	494904	9.97	524439	13.39	282139	16.01
JA98956-3	112897	6.80	403220	9.02	614334	9.97	641524	13.39	322246	16.01
JA98956-8	100157	6.81	381382	9.03	587729	9.97	613121	13.39	299782	16.02
ZZZZZZ	103044	6.80	375698	9.03	580981	9.97	609929	13.39	298700	16.02
JA98956-3MS	126649	6.80	391538	9.02	588216	9.97	589373	13.39	328812	16.01
JA98695-2	96170	6.80	358489	9.03	549512	9.97	568974	13.39	281457	16.02
ZZZZZZ	84505	6.81	354612	9.03	545838	9.97	562562	13.39	273526	16.02
JA98956-8DUP	104274	6.80	359818	9.03	551978	9.97	586211	13.39	286037	16.02
ZZZZZZ	81272	6.81	342722	9.02	526614	9.97	552516	13.39	271233	16.02
ZZZZZZ	71529	6.82	346794	9.03	534820	9.97	565754	13.39	274093	16.02

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard Area Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	VX5283-CC5242	**Injection Date:**	02/11/12
Lab File ID:	X123639A.D	**Injection Time:**	11:28
Instrument ID:	GCMSX	**Method:**	SW846 8260B

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
Check Std	61860	7.29	176915	9.99	263207	11.15	254843	15.37	127714	18.16
Upper Limit [a]	123720	7.79	353830	10.49	526414	11.65	509686	15.87	255428	18.66
Lower Limit [b]	30930	6.79	88458	9.49	131604	10.65	127422	14.87	63857	17.66

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT
VX5283-MB	68244	7.29	180187	9.99	266074	11.15	254039	15.37	127279	18.16
VX5283-BS	76561	7.29	169053	9.98	253772	11.14	250051	15.37	129648	18.16
ZZZZZZ	72235	7.29	185548	9.99	273124	11.15	257078	15.37	125984	18.16
ZZZZZZ	73266	7.29	186397	9.99	277512	11.15	260986	15.37	128672	18.16
ZZZZZZ	75781	7.30	192061	9.99	285634	11.15	269663	15.37	133193	18.16
ZZZZZZ	73839	7.29	189686	9.99	284678	11.15	265607	15.37	130868	18.16
ZZZZZZ	69667	7.30	181514	9.99	271056	11.15	260175	15.37	128618	18.16
JA98960-6	57243	7.29	181037	9.99	267790	11.15	247725	15.37	116218	18.16
JA98695-1	70881	7.29	178082	9.99	263622	11.15	247672	15.37	120541	18.16
JA98960-6MS	66598	7.30	169590	9.99	257124	11.15	248790	15.37	120421	18.16
JA98960-6MSD	66165	7.30	171763	9.99	257930	11.15	251535	15.37	123399	18.16
ZZZZZZ	76273	7.29	188214	9.99	282083	11.15	267655	15.37	131068	18.16
ZZZZZZ	74192	7.28	181584	9.99	270477	11.15	258781	15.37	126788	18.16
ZZZZZZ	75918	7.29	168752	9.99	251502	11.15	234502	15.37	104554	18.16
ZZZZZZ	66317	7.29	176365	9.99	263188	11.15	246356	15.37	113217	18.16
ZZZZZZ	62332	7.29	180706	9.99	269498	11.15	253416	15.37	120803	18.16
ZZZZZZ	67879	7.28	183460	9.99	271061	11.15	254387	15.37	122835	18.16
ZZZZZZ	70170	7.29	177027	9.99	268371	11.15	255070	15.37	124339	18.16
ZZZZZZ	71713	7.28	162268	9.99	244681	11.15	222378	15.37	94611	18.16

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Pentafluorobenzene
IS 3 = 1,4-Difluorobenzene
IS 4 = Chlorobenzene-D5
IS 5 = 1,4-Dichlorobenzene-d4

(a) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846 8260B **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
JA98695-1	X123648.D	106.0	95.0	114.0	99.0
JA98695-2	V124257A.D	105.0	99.0	110.0	99.0
JA98956-3MS	V124255.D	102.0	103.0	111.0	108.0
JA98956-8DUP	V124258.D	105.0	102.0	113.0	100.0
JA98960-6MS	X123649.D	111.0	98.0	116.0	97.0
JA98960-6MSD	X123650.D	111.0	96.0	116.0	96.0
VV5348-BS	V124248.D	100.0	103.0	113.0	108.0
VV5348-MB	V124247.D	101.0	99.0	111.0	99.0
VX5283-BS	X123640A.D	111.0	99.0	115.0	94.0
VX5283-MB	X123640.D	108.0	95.0	117.0	98.0

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	67-131%
S2 = 1,2-Dichloroethane-D4	66-130%
S3 = Toluene-D8	76-125%
S4 = 4-Bromofluorobenzene	53-142%

Initial Calibration Summary

Job Number: JA98695 **Sample:** VV5294-ICC5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V123253.D
Project: BMSMC, Building 5 Area, PR


```
                    Response Factor Report  MSV

Method       : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title        : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Fri Jan 13 09:23:57 2012
Response via : Initial Calibration

Calibration Files
1   =V123247.D   10  =V123251.D   100 =V123254.D   50  =V123253.D
20  =V123252.D   200 =V123255.D   5   =V123250.D   0.5 =V123249.D
2   =V123248.D       =

 Compound
           1     10    100   50    20    200   5     0.5   2       Avg    %RSD
-------------------------------------------------------------------------------

1) I   Tert Butyl Alcohol-d9 ----------------ISTD---------------------
2)  tertiary butyl alcohol
          1.202 1.183 1.254 1.107 1.131 1.148 1.246               1.182    4.78
3)  1,4-dioxane
                0.084 0.095 0.084 0.082 0.089 0.081               0.086    6.18

4) I   pentafluorobenzene    ----------------ISTD---------------------
5)  Freon 115
                                                                  0.000   -1.00
6)  Freon 23
                                                                  0.000   -1.00
7)  Freon 143A
                                                                  0.000   -1.00
8)  Freon 152A
                                                                  0.000   -1.00
9)  Freon 114
                                                                  0.000   -1.00
10)  Freon 142B
                                                                  0.000   -1.00
11)  Chlorotrifluoroethene
                                                                  0.000   -1.00
12)  1,3-Butadiene
                                                                  0.000   -1.00
13)  chlorodifluoromethane
                0.520 0.512 0.513 0.521 0.490 0.610               0.528    7.90
14)  dichlorodifluoromethane
          0.787 0.789 0.687 0.691 0.768 0.680 0.801 0.808 0.777   0.754    7.00
15)  chloromethane
          0.989 0.781 0.722 0.726 0.750 0.703 0.773       0.782   0.778   11.57
16)  vinyl chloride
          0.721 0.694 0.642 0.645 0.679 0.635 0.711 0.751 0.701   0.687    5.79
17)  bromomethane
          0.453 0.412 0.364 0.378 0.394 0.310 0.423       0.415   0.394   11.08
18)  chloroethane
          0.387 0.375 0.336 0.336 0.363 0.315 0.383 0.427 0.388   0.368    9.31
19)  trichlorofluoromethane
          0.810 0.819 0.745 0.751 0.810 0.732 0.861 0.764 0.798   0.788    5.39
20)  Vinyl Bromide
          0.375 0.352 0.359 0.368 0.372 0.360 0.418       0.419   0.378    6.95
21)  ethyl ether
          0.129 0.184 0.200 0.196 0.190 0.185 0.202       0.173   0.182   12.98
22)  Acetaldehyde
                0.046 0.039 0.045 0.055 0.035 0.047               0.045   15.26
           ----- Linear regression -----  Coefficient =  0.9940
```

```
                Response Ratio = 0.05721 + 0.03446 *A

23)  Pentane
                                                                    0.000   -1.00
24)  Freon 123A
                                                                    0.000   -1.00
25)  Freon 141B
                                                                    0.000   -1.00
26)  Freon 123
                                                                    0.000   -1.00
27)  acrolein
           0.057 0.063       0.062 0.064       0.060       0.063    0.062    4.02
28)  freon 113
           0.362 0.309 0.326 0.328 0.330 0.318 0.367 0.320 0.338    0.333    5.92
29)  1,1-dichloroethene
           0.391 0.367 0.361 0.365 0.372 0.350 0.413 0.382 0.387    0.377    5.05
30)  acetone
                 0.031 0.027 0.025 0.029 0.023                      0.027   11.58
31)  iso-butyl alcohol
           0.011 0.013 0.013 0.013 0.013 0.012 0.013       0.013    0.013    7.03
32)  allyl chloride
                 0.078 0.076 0.073 0.065 0.070 0.101                0.077   16.52
              ----- Linear regression -----  Coefficient =  0.9983
                Response Ratio = 0.00216 + 0.07060 *A

33)  acetonitrile
                 0.029 0.029 0.030 0.034 0.028 0.029                0.030    7.69
34)  iodomethane
           0.741 0.705 0.720 0.722 0.724 0.687 0.788 0.730 0.737    0.728    3.80
35)  carbon disulfide
           1.449 1.303 1.295 1.316 1.312 1.235 1.503       1.511    1.366    7.74
36)  methylene chloride
                 0.450 0.423 0.425 0.434 0.393 0.510       0.580    0.459   13.97
37)  methyl acetate
                 0.163 0.217 0.210 0.220 0.209 0.134                0.192   18.27
              ----- Linear regression -----  Coefficient =  0.9992
                Response Ratio = -0.00186 + 0.21097 *A

38)  methyl tert butyl ether
           1.168 1.126 1.140 1.095 1.123 1.045 1.170 1.206 1.089    1.129    4.32
39)  trans-1,2-dichloroethene
           0.417 0.386 0.407 0.401 0.405 0.382 0.456 0.392 0.438    0.409    5.94
40)  di-isopropyl ether
           1.751 1.510 1.547 1.530 1.526 1.424 1.538 1.455 1.571    1.539    5.96
41)  2-butanone
                 0.020 0.033 0.032 0.028 0.031                      0.029   18.69
              ----- Linear regression -----  Coefficient =  0.9968
                Response Ratio = -0.00030 + 0.03127 *A

42)  1,1-dichloroethane
           0.813 0.773 0.784 0.787 0.777 0.732 0.835 0.668 0.759    0.770    6.26
43)  chloroprene
           0.765 0.615 0.675 0.670 0.645 0.649 0.729 0.561 0.689    0.666    8.99
44)  acrylonitrile
                 0.088 0.102 0.099 0.102 0.096 0.099                0.098    5.59
45)  vinyl acetate
                 0.032 0.052 0.045 0.035 0.050                      0.043   20.56
              ----- Linear regression -----  Coefficient =  0.9981
                Response Ratio = -0.00437 + 0.05163 *A
```

Initial Calibration Summary

Job Number: JA98695 **Sample:** VV5294-ICC5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V123253.D
Project: BMSMC, Building 5 Area, PR

```
46)  ethyl tert-butyl ether
           1.483 1.346 1.376 1.354 1.347 1.274 1.343 1.269 1.293   1.343    4.82
47)  ethyl acetate
                 0.061 0.045 0.046 0.060 0.043 0.039               0.049   19.52
            ----- Linear regression -----  Coefficient =  0.9985
              Response Ratio = 0.00366 + 0.04221 *A

48)  2,2-dichloropropane
           0.747 0.707 0.681 0.690 0.710 0.652 0.787 0.822 0.802   0.733    8.09
49)  cis-1,2-dichloroethene
           0.461 0.433 0.435 0.430 0.423 0.406 0.456 0.425 0.498   0.441    6.14
50)  propionitrile
                 0.034 0.039 0.038 0.037 0.035 0.032               0.036    7.19
51)  methyl acrylate
                 0.014 0.038 0.034 0.026 0.036                     0.030   32.80
            ----- Linear regression -----  Coefficient =  0.9967
              Response Ratio = -0.00283 + 0.03689 *A

52)  methacrylonitrile
                 0.083 0.111 0.107 0.095 0.108                     0.101   11.88
53)  bromochloromethane
           0.212 0.188 0.194 0.189 0.196 0.182 0.202 0.159 0.201   0.191    7.85
54)  tetrahydrofuran
                 0.110 0.105 0.105 0.099 0.098 0.116               0.106    6.42
55)  chloroform
           0.749 0.696 0.707 0.707 0.700 0.667 0.776 0.833 0.747   0.731    6.93
56)  tert-Butyl Formate
                 0.354 0.353 0.341 0.354 0.331 0.347       0.306   0.341    5.10
57)  dibromofluoromethane (s)
           0.452 0.395 0.385 0.385 0.391 0.365 0.427       0.439   0.405    7.52
58)  1,2-dichloroethane-d4 (s)
           0.537 0.437 0.459 0.458 0.443 0.388 0.479       0.523   0.466   10.26
59)  1,1,1-trichloroethane
           0.651 0.648 0.647 0.650 0.650 0.622 0.739 0.667 0.697   0.663    5.23
60)  Cyclohexane
           0.693 0.573 0.573 0.579 0.556 0.556 0.643       0.774   0.618   12.79
61)  Tert Amyl Alcohol
                 0.010 0.012 0.012 0.011 0.012 0.009               0.011   11.93

62) I   1,4-difluorobenzene   ----------------ISTD--------------------
63)  methylcyclohexane
           0.520 0.421 0.447 0.438 0.445 0.424 0.495 0.527 0.451   0.463    8.70
64)  epichlorohydrin
                 0.018 0.019 0.020 0.019 0.018 0.021               0.019    6.20
65)  n-butyl alcohol
                 0.006 0.006 0.006 0.007 0.006 0.005               0.006    9.14
66)  carbon tetrachloride
           0.421 0.379 0.380 0.387 0.385 0.367 0.432       0.417   0.396    5.99
67)  1,1-dichloropropene
           0.374 0.370 0.374 0.368 0.371 0.356 0.425 0.424 0.421   0.387    7.22
68)  hexane
           0.428 0.323 0.328 0.330 0.339 0.310 0.392       0.353   0.350   11.42
69)  2,2,4-Trimethylpentane
           1.194 0.997 1.046 1.034 1.046 0.941 1.160 1.042 1.060   1.058    7.26
70)  benzene
           1.190 1.050 1.061 1.072 1.077 0.980 1.140       1.170   1.092    6.39
71)  tert-amyl methyl ether
           0.852 0.765 0.786 0.771 0.801 0.724 0.776 0.878 0.836   0.799    6.04
72)  heptane
           0.220 0.184 0.195 0.195 0.197 0.178 0.228 0.205 0.211   0.201    8.04
```

Initial Calibration Summary

Job Number: JA98695 **Sample:** VV5294-ICC5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V123253.D
Project: BMSMC, Building 5 Area, PR

```
73)  isopropyl acetate
                0.052 0.076 0.072 0.082 0.073 0.046                0.067   21.58
          ----- Linear regression -----  Coefficient =  0.9991
            Response Ratio = -0.00101 + 0.07413 *A

74)  1,2-dichloroethane
          0.346 0.331 0.335 0.334 0.337 0.311 0.353 0.352 0.332   0.337    3.77
75)  trichloroethene
          0.306 0.261 0.271 0.271 0.275 0.258 0.315 0.345 0.286   0.288    9.99
76)  Ethyl Acrylate
                0.028 0.045 0.044 0.029 0.044 0.034                0.037   21.59
          ----- Linear regression -----  Coefficient =  0.9982
            Response Ratio = -0.00238 + 0.04475 *A

77)  tert-Amyl Ethyl Ether
          0.379 0.401 0.425 0.415 0.433 0.408 0.406 0.340 0.390   0.400    6.96
78)  2-chloroethyl vinyl ether
                0.024 0.031 0.030 0.029 0.028 0.027       0.025   0.028    9.06
79)  methyl methacrylate
                0.040 0.050 0.046 0.046 0.045 0.036                0.044   11.78
80)  1,2-dichloropropane
          0.321 0.271 0.280 0.280 0.274 0.259 0.291       0.229   0.276    9.48
81)  dibromomethane
          0.151 0.136 0.140 0.138 0.140 0.128 0.145 0.155 0.139   0.141    5.78
82)  bromodichloromethane
          0.355 0.351 0.360 0.354 0.356 0.331 0.377 0.410 0.342   0.359    6.31
83)  2-nitropropane
                      0.003 0.003 0.002 0.003                      0.003   12.95
84)  cis-1,3-dichloropropene
          0.463 0.411 0.433 0.427 0.428 0.400 0.441 0.450 0.438   0.432    4.37
85)  toluene-d8 (s)
                0.968 0.957 0.954 0.999 0.896 1.121       1.209   1.015   10.84
86)  4-methyl-2-pentanone
                0.081 0.082 0.079 0.082 0.073 0.071       0.070   0.077    6.95
87)  toluene
          0.734 0.630 0.649 0.657 0.656 0.605 0.702       0.639   0.659    6.20
88)  isoamyl alcohol
          0.010 0.008 0.010 0.011 0.010 0.009 0.008       0.011   0.010    9.89
89)  trans-1,3-dichloropropene
          0.412 0.357 0.375 0.370 0.370 0.343 0.392 0.391 0.349   0.373    5.92
90)  ethyl methacrylate
          0.225 0.270 0.281 0.279 0.278 0.256 0.249       0.249   0.261    7.60
91)  1,1,2-trichloroethane
          0.165 0.169 0.169 0.166 0.172 0.154 0.174 0.209 0.155   0.170    9.47
92)  2-hexanone
                0.063 0.077 0.072 0.068 0.069 0.081                0.072    8.98

93) I   chlorobenzene-d5      ----------------ISTD--------------------
94)  tetrachloroethene
          0.346 0.305 0.330 0.335 0.335 0.322 0.354 0.386 0.346   0.340    6.65
95)  1,3-dichloropropane
          0.399 0.347 0.380 0.374 0.378 0.350 0.367 0.446 0.375   0.380    7.73
96)  butyl acetate
                0.055 0.056 0.054 0.050 0.050 0.065                0.055   10.08
97)  3,3-Dimethyl-1-Butanol
                0.017 0.019 0.019 0.020 0.018 0.016       0.019   0.018    7.11
98)  dibromochloromethane
          0.294 0.258 0.291 0.286 0.285 0.268 0.283 0.293 0.277   0.282    4.22
99)  1,2-dibromoethane
          0.245 0.203 0.222 0.220 0.225 0.207 0.212 0.251 0.207   0.221    7.64
```

Initial Calibration Summary

Job Number: JA98695 **Sample:** VV5294-ICC5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V123253.D
Project: BMSMC, Building 5 Area, PR

```
100)  chlorobenzene
            0.949 0.751 0.814 0.816 0.808 0.764 0.834       0.882   0.827    7.70
101)  1,1,1,2-tetrachloroethane
            0.301 0.287 0.318 0.312 0.312 0.301 0.313 0.338 0.291   0.308    4.99
102)  ethylbenzene
            1.558 1.276 1.385 1.410 1.391 1.295 1.453       1.447   1.402    6.44
103)  m,p-xylene
            0.587 0.506 0.538 0.547 0.533 0.509 0.587       0.556   0.546    5.63
104)  o-xylene
            0.629 0.500 0.538 0.542 0.548 0.515 0.572       0.548   0.549    7.13
105)  styrene
            1.078 0.801 0.903 0.896 0.892 0.848 0.868 1.098 0.864   0.916   11.15
106)  Butyl Acrylate
                                                                    0.000   -1.00
107)  bromoform
            0.197 0.184 0.202 0.199 0.199 0.192 0.182       0.180   0.192    4.50
108)  cyclohexanone
                  0.024 0.027 0.021 0.030 0.024 0.026               0.025   12.02
109)  4-bromofluorobenzene (s)
                  0.406 0.425 0.419 0.427 0.405 0.502               0.430    8.41

110) I   1,4-dichlorobenzene-d ----------------ISTD--------------------
111)  isopropylbenzene
            3.069 2.595 2.552 2.593 2.666 2.326 2.931       3.061   2.724    9.82
112)  1,1,2,2-tetrachloroethane
            0.577 0.550 0.542 0.551 0.574 0.482 0.595 0.679 0.588   0.571    9.22
113)  trans-1,4-dichloro-2-butene
                  0.160 0.150 0.142 0.176 0.139 0.158       0.123   0.150   11.34
114)  1,2,3-trichloropropane
            0.109 0.137 0.134 0.132 0.140 0.119 0.147       0.127   0.131    9.32
115)  bromobenzene
                  0.669 0.670 0.667 0.666 0.614 0.716       0.791   0.685    8.08
116)  n-propylbenzene
                  3.021 2.972 3.023 3.099 2.684 3.433       3.539   3.110    9.32
117)  4-Ethyltoluene
            2.816 2.334 2.411 2.371 2.601 2.288 2.589       2.517   2.491    7.03
118)  2-chlorotoluene
            0.825 0.627 0.641 0.633 0.648 0.594 0.711 0.788 0.692   0.684   11.39
119)  4-chlorotoluene
                  1.949 1.926 1.927 1.985 1.752 2.272       2.282   2.013    9.66
120)  1,3,5-trimethylbenzene
                  2.413 2.217 2.274 2.347 2.021 2.749       2.713   2.391   11.01
121)  tert-butylbenzene
            2.299 1.914 1.937 1.913 1.931 1.791 2.220       2.137   2.018    8.81
122)  pentachloroethane
            0.459 0.461 0.469 0.456 0.464 0.439 0.474 0.515 0.461   0.466    4.42
123)  1,2,4-trimethylbenzene
                  2.264 2.222 2.218 2.277 2.039 2.582       2.649   2.322    9.31
124)  sec-butylbenzene
                  2.974 2.933 2.973 3.060 2.673 3.605       3.629   3.121   11.53
125)  p-isopropyltoluene
                  2.418 2.458 2.449 2.508 2.239 2.864       2.812   2.535    8.82
126)  1,3-dichlorobenzene
            1.938 1.261 1.294 1.259 1.283 1.181 1.411       1.495   1.390   17.40
             ----- Linear regression -----  Coefficient =  0.9981
               Response Ratio = 0.04044 + 1.19235 *A

127)  1,4-dichlorobenzene
            2.503 1.354 1.330 1.307 1.364 1.208 1.599       1.798   1.558   27.35
             ----- Linear regression -----  Coefficient =  0.9979
```

Initial Calibration Summary

Job Number: JA98695 **Sample:** VV5294-ICC5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V123253.D
Project: BMSMC, Building 5 Area, PR

```
                Response Ratio = 0.05720 + 1.21630 *A

128)  1,2-dichlorobenzene
            1.848 1.271 1.253 1.234 1.285 1.135 1.400       1.428   1.357   16.15
             ----- Linear regression -----  Coefficient =  0.9977
                Response Ratio = 0.04935 + 1.14533 *A

129)  Benzyl Chloride
                  1.048 1.128 1.093 1.116 1.034 1.049               1.078    3.69
130)  Vinyl Toluene
                                                                    0.000   -1.00
131)  1,4-Diethylbenzene
            1.772 1.539 1.582 1.542 1.702 1.505 1.717       1.684   1.630    6.13
132)  n-butylbenzene
            1.681 1.337 1.374 1.377 1.400 1.258 1.579       1.512   1.440    9.69
133)  hexachloroethane
            0.538 0.462 0.487 0.485 0.479 0.464 0.517 0.600 0.464   0.500    9.10
134)  1,2,4,5-tetramethylbenzene
            2.534 2.369 2.384 2.384 2.565 2.229 2.416 2.883 2.424   2.465    7.47
135)  1,2-dibromo-3-chloropropane
                  0.104 0.103 0.104 0.113 0.093 0.106               0.104    6.25
136)  1,3,5-trichlorobenzene
                  1.153 1.145 1.158 1.162 1.032 1.253       1.268   1.167    6.67
137)  1,2,4-trichlorobenzene
                  0.871 0.894 0.898 0.904 0.806 0.925       1.014   0.902    6.91
138)  hexachlorobutadiene
                  0.665 0.633 0.666 0.678 0.541 0.734       0.764   0.669   10.75
139)  naphthalene
                  1.389 1.390 1.426 1.422 1.245 1.383       1.586   1.406    7.11
140)  1,2,3-trichlorobenzene
                  0.739 0.726 0.769 0.778 0.629 0.762       0.829   0.748    8.26
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           MVS5294.M         Fri Jan 13 10:05:29 2012   RPT1
```

Initial Calibration Verification

Job Number: JA98695 **Sample:** VV5294-ICV5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V123258.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\V123258.D                    Vial: 13
Acq On    : 12 Jan 2012   4:30 pm                     Operator: conorl
Sample    : ICV5294-50                                Inst    : MSV
Misc      : MS24067,VV5294,5,,,,1                     Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title        : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Fri Jan 13 09:23:57 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	98	0.01	6.80
2		tertiary butyl alcohol	1.182	1.095	7.4	97	0.00	6.91
3		1,4-dioxane	0.086	0.088	-2.3	102	0.00	10.73
4	I	pentafluorobenzene	1.000	1.000	0.0	103	0.00	9.03
5		Freon 115		----------NA----------				
6		Freon 23		----------NA----------				
7		Freon 143A		----------NA----------				
8		Freon 152A		----------NA----------				
9		Freon 114		----------NA----------				
10		Freon 142B		----------NA----------				
11		Chlorotrifluoroethene		----------NA----------				
12		1,3-Butadiene		----------NA----------				
13		chlorodifluoromethane	0.528	0.424	19.7	85	0.00	3.75
14		dichlorodifluoromethane	0.754	0.679	9.9	101	-0.01	3.74
15		chloromethane	0.778	0.717	7.8	102	0.00	4.02
16		vinyl chloride	0.687	0.642	6.6	102	0.00	4.24
17		bromomethane	0.394	0.371	5.8	101	0.00	4.82
18		chloroethane	0.368	0.343	6.8	105	0.00	4.96
19		trichlorofluoromethane	0.788	0.750	4.8	103	0.00	5.37
20		Vinyl Bromide	0.378	0.365	3.4	102	0.00	5.28
21		ethyl ether	0.182	0.188	-3.3	99	0.00	5.75
		----------	True	Calc.	% Drift	----------		
22		Acetaldehyde	500.000	524.527	-4.9	96	0.00	4.44
		----------	AvgRF	CCRF	% Dev	----------		
23		Pentane		----------NA----------				
24		Freon 123A		----------NA----------				
25		Freon 141B		----------NA----------				
26		Freon 123		----------NA----------				
27		acrolein	0.062	0.061	1.6	100	0.00	5.99
28		freon 113	0.333	0.320	3.9	100	0.00	6.12
29		1,1-dichloroethene	0.377	0.333	11.7	94	0.00	6.15
30		acetone	0.027	0.030	-11.1	124	0.00	6.26
31		iso-butyl alcohol	0.013	0.013	0.0	100	0.00	9.58
		----------	True	Calc.	% Drift	----------		
32		allyl chloride	50.000	51.886	-3.8	107	0.00	6.64
		----------	AvgRF	CCRF	% Dev	----------		
33		acetonitrile	0.030	0.030	0.0	102	0.00	6.63

Initial Calibration Verification

Job Number: JA98695 **Sample:** VV5294-ICV5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V123258.D
Project: BMSMC, Building 5 Area, PR

34		iodomethane	0.728	0.673	7.6	96	0.00	6.41
35		carbon disulfide	1.366	1.177	13.8	92	0.00	6.54
36		methylene chloride	0.459	0.419	8.7	102	0.00	6.82
		----------	True	Calc.	% Drift	----------		
37		methyl acetate	50.000	55.695	-11.4	114	0.00	6.67
		----------	AvgRF	CCRF	% Dev	----------		
38		methyl tert butyl ether	1.129	1.095	3.0	103	0.00	7.15
39		trans-1,2-dichloroethene	0.409	0.370	9.5	95	0.00	7.20
40		di-isopropyl ether	1.539	1.468	4.6	99	0.00	7.74
		----------	True	Calc.	% Drift	----------		
41		2-butanone	50.000	48.806	2.4	99	0.00	8.52
		----------	AvgRF	CCRF	% Dev	----------		
42		1,1-dichloroethane	0.770	0.733	4.8	96	0.00	7.75
43		chloroprene	0.666	0.620	6.9	95	0.00	7.87
44		acrylonitrile	0.098	0.099	-1.0	103	0.00	7.16
		----------	True	Calc.	% Drift	----------		
45		vinyl acetate	50.000	50.052	-0.1	108	-0.01	7.78
		----------	AvgRF	CCRF	% Dev	----------		
46		ethyl tert-butyl ether	1.343	1.343	0.0	102	0.00	8.20
		----------	True	Calc.	% Drift	----------		
47		ethyl acetate	50.000	46.824	6.4	97	0.00	8.52
		----------	AvgRF	CCRF	% Dev	----------		
48		2,2-dichloropropane	0.733	0.651	11.2	97	0.00	8.50
49		cis-1,2-dichloroethene	0.441	0.404	8.4	97	0.00	8.50
50		propionitrile	0.036	0.038	-5.6	103	0.00	8.56
		----------	True	Calc.	% Drift	----------		
51		methyl acrylate	50.000	49.981	0.0	102	-0.02	8.64
		----------	AvgRF	CCRF	% Dev	----------		
52		methacrylonitrile	0.101	0.098	3.0	94	0.00	8.78
53		bromochloromethane	0.191	0.184	3.7	101	0.00	8.81
54		tetrahydrofuran	0.106	0.103	2.8	101	0.00	8.88
55		chloroform	0.731	0.673	7.9	98	0.00	8.87
56		tert-Butyl Formate	0.341	0.328	3.8	99	0.00	8.90
57	S	dibromofluoromethane (s)	0.405	0.383	5.4	102	0.00	9.07
58	S	1,2-dichloroethane-d4 (s)	0.466	0.453	2.8	102	0.00	9.50
59		1,1,1-trichloroethane	0.663	0.606	8.6	96	0.00	9.13
60		Cyclohexane	0.618	0.522	15.5	93	0.00	9.21
61		Tert Amyl Alcohol	0.011	0.013	-18.2	102	0.00	9.45
62	I	1,4-difluorobenzene	1.000	1.000	0.0	104	0.00	9.97
63		methylcyclohexane	0.463	0.448	3.2	106	0.00	10.54
64		epichlorohydrin	0.019	0.018	5.3	97	0.00	11.30
65		n-butyl alcohol	0.006	0.006	0.0	100	0.00	10.12
66		carbon tetrachloride	0.396	0.351	11.4	94	0.00	9.34
67		1,1-dichloropropene	0.387	0.336	13.2	94	0.00	9.32
68		hexane	0.350	0.319	8.9	100	0.00	7.51
69		2,2,4-Trimethylpentane	1.058	0.987	6.7	99	0.00	9.58
70		benzene	1.092	0.984	9.9	95	0.00	9.58
71		tert-amyl methyl ether	0.799	0.816	-2.1	110	0.00	9.61
72		heptane	0.201	0.183	9.0	97	0.00	9.77

Initial Calibration Verification

Job Number: JA98695 **Sample:** VV5294-ICV5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V123258.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
73		isopropyl acetate	50.000	48.778	2.4	103	0.00	9.51

			AvgRF	CCRF	% Dev			
74		1,2-dichloroethane	0.337	0.320	5.0	99	0.00	9.59
75		trichloroethene	0.288	0.255	11.5	97	0.00	10.33

			True	Calc.	% Drift			
76		Ethyl Acrylate	50.000	50.372	-0.7	100	-0.01	10.33

			AvgRF	CCRF	% Dev			
77		tert-Amyl Ethyl Ether	0.400	0.412	-3.0	103	0.00	10.49
78		2-chloroethyl vinyl ether	0.028	0.024	14.3	82	0.00	11.18
79		methyl methacrylate	0.044	0.048	-9.1	106	0.00	10.63
80		1,2-dichloropropane	0.276	0.262	5.1	97	0.00	10.59
81		dibromomethane	0.141	0.134	5.0	101	0.00	10.76
82		bromodichloromethane	0.359	0.341	5.0	100	0.00	10.90
83		2-nitropropane	0.003	0.003	0.0	109	0.00	11.12
84		cis-1,3-dichloropropene	0.432	0.410	5.1	100	0.00	11.39
85	S	toluene-d8 (s)	1.015	0.956	5.8	104	0.00	11.71
86		4-methyl-2-pentanone	0.077	0.073	5.2	96	0.00	11.50
87		toluene	0.659	0.612	7.1	96	0.00	11.79
88		isoamyl alcohol	0.010	0.010	0.0	97	0.00	11.54
89		trans-1,3-dichloropropene	0.373	0.359	3.8	101	0.00	12.01
90		ethyl methacrylate	0.261	0.267	-2.3	99	0.00	12.02
91		1,1,2-trichloroethane	0.170	0.159	6.5	99	0.00	12.23
92		2-hexanone	0.072	0.071	1.4	102	0.00	12.47
93	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.00	13.39
94		tetrachloroethene	0.340	0.315	7.4	97	0.00	12.44
95		1,3-dichloropropane	0.380	0.368	3.2	101	0.00	12.44
96		butyl acetate	0.055	0.052	5.5	99	0.00	12.55
97		3,3-Dimethyl-1-Butanol	0.018	0.018	0.0	99	0.00	12.64
98		dibromochloromethane	0.282	0.274	2.8	98	0.00	12.74
99		1,2-dibromoethane	0.221	0.216	2.3	101	0.00	12.90
100		chlorobenzene	0.827	0.787	4.8	99	0.00	13.43
101		1,1,1,2-tetrachloroethane	0.308	0.303	1.6	100	0.00	13.49
102		ethylbenzene	1.402	1.336	4.7	97	0.00	13.49
103		m,p-xylene	0.546	0.520	4.8	98	0.00	13.61
104		o-xylene	0.549	0.522	4.9	99	0.00	14.09
105		styrene	0.916	0.869	5.1	100	0.00	14.10
106		Butyl Acrylate		----------NA----------				
107		bromoform	0.192	0.197	-2.6	102	0.00	14.38
108		cyclohexanone	0.025	0.047	-88.0#	234#	0.00	14.63
109	S	4-bromofluorobenzene (s)	0.430	0.428	0.5	105	0.00	14.70
110	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	16.02
111		isopropylbenzene	2.724	2.499	8.3	97	0.00	14.47
112		1,1,2,2-tetrachloroethane	0.571	0.533	6.7	97	0.00	14.81
113		trans-1,4-dichloro-2-bute	0.150	0.144	4.0	102	0.00	14.86
114		1,2,3-trichloropropane	0.131	0.134	-2.3	102	0.00	14.89
115		bromobenzene	0.685	0.658	3.9	99	0.00	14.92
116		n-propylbenzene	3.110	2.952	5.1	98	0.00	14.93
117		4-Ethyltoluene	2.491	2.574	-3.3	109	0.00	15.05
118		2-chlorotoluene	0.684	0.630	7.9	100	0.00	15.10
119		4-chlorotoluene	2.013	1.904	5.4	99	0.00	15.21
120		1,3,5-trimethylbenzene	2.391	2.245	6.1	99	0.00	15.11
121		tert-butylbenzene	2.018	1.871	7.3	98	0.00	15.49
122		pentachloroethane	0.466	0.453	2.8	99	0.00	15.58

Initial Calibration Verification

Job Number: JA98695 **Sample:** VV5294-ICV5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V123258.D
Project: BMSMC, Building 5 Area, PR

123	1,2,4-trimethylbenzene	2.322	2.200	5.3	99	0.00	15.55
124	sec-butylbenzene	3.121	2.874	7.9	97	0.00	15.74
125	p-isopropyltoluene	2.535	2.405	5.1	98	0.00	15.87
	----------	True	Calc.	% Drift	----------		
126	1,3-dichlorobenzene	50.000	51.591	-3.2	101	0.00	15.95
127	1,4-dichlorobenzene	50.000	52.203	-4.4	102	0.00	16.04
128	1,2-dichlorobenzene	50.000	52.173	-4.3	101	0.00	16.48
	----------	AvgRF	CCRF	% Dev	----------		
129	Benzyl Chloride	1.078	1.154	-7.1	106	0.00	16.17
130	Vinyl Toluene		----------NA----------				
131	1,4-Diethylbenzene	1.630	1.676	-2.8	109	0.00	16.30
132	n-butylbenzene	1.440	1.339	7.0	97	0.00	16.34
133	hexachloroethane	0.500	0.469	6.2	97	0.00	16.77
134	1,2,4,5-tetramethylbenzen	2.465	2.593	-5.2	109	0.00	17.18
135	1,2-dibromo-3-chloropropa	0.104	0.106	-1.9	102	0.00	17.33
136	1,3,5-trichlorobenzene	1.167	1.172	-0.4	101	0.00	17.55
137	1,2,4-trichlorobenzene	0.902	0.917	-1.7	102	0.00	18.24
138	hexachlorobutadiene	0.669	0.636	4.9	96	0.00	18.37
139	naphthalene	1.406	1.455	-3.5	102	0.00	18.55
140	1,2,3-trichlorobenzene	0.748	0.797	-6.6	104	0.00	18.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
V123253.D MVS5294.M Fri Jan 13 09:30:28 2012 RPT1

Continuing Calibration Summary

Job Number: JA98695 **Sample:** VV5348-CC5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V124245.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDChem\1\DATA\V124245.D                    Vial: 2
Acq On    : 13 Feb 2012  10:35 am                     Operator: conorl
Sample    : CC5294-20                                 Inst    : MSV
Misc      : MS25499,VV5348,5,,,,1                     Multiplr: 1.00
MS Integration Params: rteint.p

Method       : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title        : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Fri Jan 13 10:06:34 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	Tert Butyl Alcohol-d9	1.000	1.000	0.0	85	0.00	6.80
2		tertiary butyl alcohol	1.182	1.164	1.5	87	0.00	6.92
3		1,4-dioxane	0.086	0.099	-15.1	102	0.03	10.75
4	I	pentafluorobenzene	1.000	1.000	0.0	103	0.00	9.02
5		Freon 115		----------NA----------				
6		Freon 23		----------NA----------				
7		Freon 143A		----------NA----------				
8		Freon 152A		----------NA----------				
9		Freon 114		----------NA----------				
10		Freon 142B		----------NA----------				
11		Chlorotrifluoroethene		----------NA----------				
12		1,3-Butadiene		----------NA----------				
13		chlorodifluoromethane	0.528	0.668	-26.5#	132	0.00	3.74
14		dichlorodifluoromethane	0.754	0.781	-3.6	105	-0.02	3.73
15		chloromethane	0.778	0.846	-8.7	116	-0.01	4.01
16		vinyl chloride	0.687	0.710	-3.3	107	-0.01	4.23
17		bromomethane	0.394	0.429	-8.9	112	0.00	4.82
18		chloroethane	0.368	0.389	-5.7	110	0.00	4.98
19		trichlorofluoromethane	0.788	0.802	-1.8	102	0.00	5.37
20		Vinyl Bromide		----------NA----------				
21		ethyl ether	0.182	0.205	-12.6	111	0.00	5.76
		----------	True	Calc.	% Drift	----------		
22		Acetaldehyde	200.000	240.933	-20.5#	105	0.00	4.45
		----------	AvgRF	CCRF	% Dev	----------		
23		Pentane		----------NA----------				
24		Freon 123A		----------NA----------				
25		Freon 141B		----------NA----------				
26		Freon 123		----------NA----------				
27		acrolein	0.062	0.054	12.9	87	0.02	6.01
28		freon 113	0.333	0.378	-13.5	118	0.00	6.11
29		1,1-dichloroethene	0.377	0.419	-11.1	116	0.00	6.14
30		acetone	0.027	0.023	14.8	82	0.04	6.30
31		iso-butyl alcohol	0.013	0.013	0.0	105	0.00	9.58
		----------	True	Calc.	% Drift	----------		
32		allyl chloride	20.000	23.858	-19.3	143	0.00	6.65
		----------	AvgRF	CCRF	% Dev	----------		
33		acetonitrile	0.030	0.030	0.0	91	0.02	6.66

Continuing Calibration Summary

Job Number: JA98695 **Sample:** VV5348-CC5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V124245.D
Project: BMSMC, Building 5 Area, PR

34		iodomethane	0.728	0.796	-9.3	113	0.00	6.40
35		carbon disulfide	1.366	1.587	-16.2	124	0.00	6.54
36		methylene chloride	0.459	0.498	-8.5	118	0.00	6.83
		----------	True	Calc.	% Drift	----------		
37		methyl acetate	20.000	20.961	-4.8	101	0.13	6.80
		----------	AvgRF	CCRF	% Dev	----------		
38		methyl tert butyl ether	1.129	1.071	5.1	98	0.00	7.16
39		trans-1,2-dichloroethene	0.409	0.471	-15.2	120	0.00	7.20
40		di-isopropyl ether	1.539	1.592	-3.4	107	0.00	7.74
		----------	True	Calc.	% Drift	----------		
41		2-butanone	20.000	16.185	19.1	89	0.05	8.57
		----------	AvgRF	CCRF	% Dev	----------		
42		1,1-dichloroethane	0.770	0.904	-17.4	120	0.00	7.75
43		chloroprene	0.666	0.702	-5.4	112	0.00	7.88
44		acrylonitrile	0.098	0.093	5.1	94	0.05	7.21
		----------	True	Calc.	% Drift	----------		
45		vinyl acetate	20.000	14.479	27.6#	77	0.13	7.92
		----------	AvgRF	CCRF	% Dev	----------		
46		ethyl tert-butyl ether	1.343	1.347	-0.3	103	0.00	8.20
		----------	True	Calc.	% Drift	----------		
47		ethyl acetate	20.000	20.486	-2.4	89	0.10	8.61
		----------	AvgRF	CCRF	% Dev	----------		
48		2,2-dichloropropane	0.733	0.774	-5.6	112	0.00	8.49
49		cis-1,2-dichloroethene	0.441	0.468	-6.1	114	0.00	8.51
50		propionitrile	0.036	0.035	2.8	97	0.04	8.61
		----------	True	Calc.	% Drift	----------		
51		methyl acrylate	20.000	14.578	27.1#	79	0.13	8.79
		----------	AvgRF	CCRF	% Dev	----------		
52		methacrylonitrile	0.101	0.081	19.8	88	0.04	8.82
53		bromochloromethane	0.191	0.199	-4.2	105	0.00	8.81
54		tetrahydrofuran	0.106	0.093	12.3	97	0.02	8.90
55		chloroform	0.731	0.805	-10.1	118	0.00	8.86
56		tert-Butyl Formate	0.341	0.272	20.2#	79	0.00	8.91
57	S	dibromofluoromethane (s)	0.405	0.418	-3.2	110	0.00	9.07
58	S	1,2-dichloroethane-d4 (s)	0.466	0.474	-1.7	110	0.00	9.50
59		1,1,1-trichloroethane	0.663	0.739	-11.5	117	0.00	9.12
60		Cyclohexane	0.618	0.701	-13.4	130	0.00	9.20
61		Tert Amyl Alcohol		----------NA----------				
62	I	1,4-difluorobenzene	1.000	1.000	0.0	106	0.00	9.97
63		methylcyclohexane	0.463	0.498	-7.6	119	0.00	10.54
64		epichlorohydrin	0.019	0.016	15.8	88	0.03	11.33
65		n-butyl alcohol	0.006	0.005	16.7	77	0.07	10.19
66		carbon tetrachloride	0.396	0.432	-9.1	119	0.00	9.33
67		1,1-dichloropropene	0.387	0.408	-5.4	116	0.00	9.32
68		hexane	0.350	0.379	-8.3	118	0.00	7.50
69		2,2,4-Trimethylpentane	1.058	1.225	-15.8	124	0.00	9.58
70		benzene	1.092	1.192	-9.2	117	0.00	9.58
71		tert-amyl methyl ether	0.799	0.753	5.8	100	0.00	9.62
72		heptane	0.201	0.233	-15.9	125	0.00	9.77

Continuing Calibration Summary

Job Number: JA98695 **Sample:** VV5348-CC5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V124245.D
Project: BMSMC, Building 5 Area, PR

			True	Calc.	% Drift			
73		isopropyl acetate	20.000	16.635	16.8	76	0.03	9.54

			AvgRF	CCRF	% Dev			
74		1,2-dichloroethane	0.337	0.340	-0.9	107	0.00	9.59
75		trichloroethene	0.288	0.300	-4.2	115	0.00	10.33

			True	Calc.	% Drift			
76		Ethyl Acrylate	20.000	17.040	14.8	118	0.00	10.34

			AvgRF	CCRF	% Dev			
77		tert-Amyl Ethyl Ether		----------NA----------				
78		2-chloroethyl vinyl ether	0.028	0.053	-89.3#	197	0.01	11.18
79		methyl methacrylate	0.044	0.037	15.9	85	0.04	10.67
80		1,2-dichloropropane	0.276	0.306	-10.9	118	0.00	10.59
81		dibromomethane	0.141	0.137	2.8	104	0.01	10.77
82		bromodichloromethane	0.359	0.376	-4.7	112	0.00	10.90
83		2-nitropropane		----------NA----------				
84		cis-1,3-dichloropropene	0.432	0.452	-4.6	112	0.01	11.40
85	S	toluene-d8 (s)	1.015	1.142	-12.5	121	0.00	11.71
86		4-methyl-2-pentanone	0.077	0.069	10.4	89	0.03	11.53
87		toluene	0.659	0.703	-6.7	113	0.00	11.80
88		isoamyl alcohol	0.010	0.008	20.0	82	0.02	11.56
89		trans-1,3-dichloropropene	0.373	0.373	0.0	107	0.02	12.03
90		ethyl methacrylate	0.261	0.241	7.7	92	0.02	12.04
91		1,1,2-trichloroethane	0.170	0.177	-4.1	109	0.00	12.24
92		2-hexanone	0.072	0.076	-5.6	118	0.05	12.52
93	I	chlorobenzene-d5	1.000	1.000	0.0	118	0.00	13.39
94		tetrachloroethene	0.340	0.333	2.1	117	0.00	12.44
95		1,3-dichloropropane	0.380	0.353	7.1	110	0.00	12.45
96		butyl acetate	0.055	0.038	30.9#	88	0.04	12.59
97		3,3-Dimethyl-1-Butanol	0.018	0.014	22.2#	80	0.00	12.64
98		dibromochloromethane	0.282	0.258	8.5	107	0.00	12.74
99		1,2-dibromoethane	0.221	0.194	12.2	102	0.01	12.92
100		chlorobenzene	0.827	0.799	3.4	116	0.00	13.43
101		1,1,1,2-tetrachloroethane	0.308	0.293	4.9	110	0.00	13.49
102		ethylbenzene	1.402	1.379	1.6	117	0.00	13.50
103		m,p-xylene	0.546	0.529	3.1	117	0.00	13.62
104		o-xylene	0.549	0.517	5.8	111	0.00	14.09
105		styrene	0.916	0.810	11.6	107	0.00	14.11
106		Butyl Acrylate		----------NA----------				
107		bromoform	0.192	0.167	13.0	99	0.00	14.39
108		cyclohexanone		----------NA----------				
109	S	4-bromofluorobenzene (s)	0.430	0.462	-7.4	128	0.00	14.70
110	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	121	0.00	16.01
111		isopropylbenzene	2.724	2.551	6.4	116	0.00	14.47
112		1,1,2,2-tetrachloroethane	0.571	0.493	13.7	104	0.00	14.81
113		trans-1,4-dichloro-2-bute	0.150	0.110	26.7#	76	0.01	14.87
114		1,2,3-trichloropropane	0.131	0.118	9.9	102	0.00	14.89
115		bromobenzene	0.685	0.621	9.3	113	0.00	14.92
116		n-propylbenzene	3.110	2.955	5.0	116	0.00	14.93
117		4-Ethyltoluene		----------NA----------				
118		2-chlorotoluene	0.684	0.599	12.4	112	0.00	15.10
119		4-chlorotoluene	2.013	1.851	8.0	113	0.00	15.21
120		1,3,5-trimethylbenzene	2.391	2.112	11.7	109	0.00	15.11
121		tert-butylbenzene	2.018	1.801	10.8	113	0.00	15.49
122		pentachloroethane	0.466	0.417	10.5	109	0.00	15.58

Continuing Calibration Summary

Job Number: JA98695 **Sample:** VV5348-CC5294
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** V124245.D
Project: BMSMC, Building 5 Area, PR

123	1,2,4-trimethylbenzene	2.322	2.102	9.5	112	0.00	15.55
124	sec-butylbenzene	3.121	2.936	5.9	116	0.00	15.74
125	p-isopropyltoluene	2.535	2.352	7.2	114	0.00	15.88
	----------	True	Calc.	% Drift	----------		
126	1,3-dichlorobenzene	20.000	18.062	9.7	111	0.00	15.95
127	1,4-dichlorobenzene	20.000	18.442	7.8	112	0.00	16.04
128	1,2-dichlorobenzene	20.000	17.570	12.1	107	0.00	16.49
	----------	AvgRF	CCRF	% Dev	----------		
129	Benzyl Chloride	1.078	0.836	22.4#	91	0.00	16.18
130	Vinyl Toluene		----------NA----------				
131	1,4-Diethylbenzene		----------NA----------				
132	n-butylbenzene	1.440	1.231	14.5	107	0.00	16.34
133	hexachloroethane	0.500	0.447	10.6	113	0.00	16.77
134	1,2,4,5-tetramethylbenzen		----------NA----------				
135	1,2-dibromo-3-chloropropa	0.104	0.080	23.1#	86	0.00	17.34
136	1,3,5-trichlorobenzene	1.167	1.032	11.6	108	0.00	17.55
137	1,2,4-trichlorobenzene	0.902	0.733	18.7	98	0.00	18.25
138	hexachlorobutadiene	0.669	0.641	4.2	115	0.00	18.37
139	naphthalene	1.406	1.017	27.7#	87	0.00	18.55
140	1,2,3-trichlorobenzene	0.748	0.638	14.7	99	0.00	18.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
V123252.D MVS5294.M Mon Feb 13 13:52:01 2012 RPT1

Initial Calibration Summary

Job Number: JA98695 **Sample:** VX5242-ICC5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X122923.D
Project: BMSMC, Building 5 Area, PR


```
                        Response Factor Report  MSX

 Method       : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
 Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
 Last Update  : Mon Feb 13 17:45:31 2012
 Response via : Initial Calibration

 Calibration Files
 1   =X122918.D   2   =X122919.D   100 =X122924.D   50  =X122923.D
 20  =X122922.D   200 =X122925.D   5   =X122920.D   10  =X122921.D
 0.5 =X122917.D       =

  Compound
            1     2     100   50    20    200   5     10    0.5     Avg    %RSD
 ---------------------------------------------------------------------------

 1) I   tert butyl alcohol-d9 ----------------ISTD---------------------
 2)  tertiary butyl alcohol
           1.462 1.412 1.236 1.339 1.321 1.370 1.341 1.292         1.347    5.19
 3)  ethyl alcohol
                                                                   0.000   -1.00
 4)  1,4-dioxane
                 0.093 0.110 0.116 0.115 0.125 0.106 0.111         0.111    8.83

 5) I   pentafluorobenzene    ----------------ISTD---------------------
 6)  freon 23
                                                                   0.000   -1.00
 7)  freon 115
                                                                   0.000   -1.00
 8)  freon 143a
                       0.098 0.101 0.111 0.097 0.089 0.092         0.098    7.76
 9)  freon 152a
                                                                   0.000   -1.00
10)  chlorotrifluoroethene
                                                                   0.000   -1.00
11)  chlorodifluoromethane
           0.476 0.400 0.350 0.381 0.362 0.374 0.390 0.390         0.390    9.77
12)  dichlorodifluoromethane
           0.481 0.510 0.478 0.525 0.526 0.485 0.542 0.526 0.529   0.511    4.70
13)  freon 114
                                                                   0.000   -1.00
14)  freon 142b
                       0.436 0.454 0.476 0.432 0.467 0.387         0.442    7.19
15)  chloromethane
           0.706 0.732 0.593 0.659 0.650 0.586 0.693 0.688 0.667   0.664    7.37
16)  vinyl chloride
           0.480 0.518 0.472 0.513 0.515 0.474 0.531 0.540 0.427   0.497    7.24
17)  acetaldehyde
                                                                   0.000   -1.00
18)  bromomethane
           0.338 0.352 0.214 0.282 0.317       0.361 0.349         0.316   16.63
         ----- Quadratic regression -----                Coefficient =  0.9999
              Response Ratio = 0.00086 + 0.34705 *A + -0.06690 *A^2

19)  chloroethane
           0.264 0.279 0.234 0.270 0.267       0.302 0.301         0.274    8.54
20)  vinyl bromide
           0.356 0.376 0.346 0.372 0.345 0.339 0.381 0.352 0.241   0.345   12.13
21)  trichlorofluoromethane
           0.534 0.585 0.520 0.572 0.581 0.517 0.599 0.596         0.563    6.01
```

Initial Calibration Summary

Job Number: JA98695 **Sample:** VX5242-ICC5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X122923.D
Project: BMSMC, Building 5 Area, PR

22)	pentane										
		0.690	0.540	0.635	0.612	0.564	0.720	0.713		0.639	11.19
23)	ethyl ether										
		0.174	0.274	0.233	0.257	0.249	0.223	0.250	0.232	0.234	12.40
24)	freon 141b										
			0.507	0.525	0.534	0.506	0.498	0.426		0.499	7.71
25)	freon 123a										
										0.000	-1.00
26)	freon 123										
										0.000	-1.00
27)	acrolein										
		0.073	0.084		0.082	0.084		0.093	0.088	0.084	7.93
28)	1,1-dichloroethene										
		0.281	0.399	0.331	0.374	0.356	0.311	0.378	0.351	0.348	11.15
29)	acetone										
			0.032	0.039	0.035	0.033		0.028		0.033	12.48
30)	allyl chloride										
		0.251	0.237	0.268	0.248	0.226	0.268	0.244		0.249	6.16
31)	acetonitrile										
			0.030	0.035	0.033	0.032	0.043	0.040		0.036	14.48
32)	iodomethane										
		0.502	0.754	0.674	0.746	0.692	0.637	0.723	0.678	0.774	0.687	11.97
33)	iso-butyl alcohol										
			0.018	0.020	0.019	0.020	0.020	0.020		0.020	4.18
34)	carbon disulfide										
		1.005	1.480	1.254	1.422	1.343	1.169	1.406	1.313	1.709	1.345	14.79
35)	methylene chloride										
		0.526	0.585	0.440	0.490	0.475	0.418	0.514	0.466		0.489	10.75
36)	methyl acetate										
			0.294	0.332	0.299	0.316	0.396	0.334		0.328	11.21
37)	methyl tert butyl ether										
		0.939	1.357	1.113	1.259	1.189	1.040	1.242	1.157	1.542	1.204	14.69
38)	trans-1,2-dichloroethene										
		0.345	0.477	0.373	0.424	0.415	0.350	0.429	0.390		0.400	11.16
39)	di-isopropyl ether										
		2.158	1.751	1.485	1.656	1.644	1.559	1.709	1.709		1.709	11.77
40)	2-butanone										
			0.043	0.049	0.044	0.043	0.032	0.040		0.042	13.70
41)	1,1-dichloroethane										
		0.614	0.886	0.730	0.830	0.817	0.677	0.856	0.785		0.774	12.11
42)	chloroprene										
		0.726	0.614	0.558	0.618	0.599	0.598	0.640	0.629		0.623	7.81
43)	acrylonitrile										
		0.094	0.151	0.129	0.148	0.141	0.122	0.143	0.130	0.155	0.135	13.87
44)	vinyl acetate										
			0.059	0.065	0.062	0.063	0.052	0.059		0.060	7.62
45)	ethyl tert-butyl ether										
		1.763	1.483	1.326	1.465	1.428	1.404	1.469	1.487		1.478	8.59
46)	ethyl acetate										
		0.033	0.043	0.048	0.045	0.046	0.046	0.046		0.044	11.33
47)	2,2-dichloropropane										
		0.483	0.649	0.513	0.580	0.554	0.473	0.592	0.554		0.550	10.69
48)	cis-1,2-dichloroethene										
		0.383	0.533	0.440	0.494	0.477	0.413	0.497	0.455		0.461	10.56
49)	propionitrile										
		0.039	0.058	0.050	0.056	0.054	0.048	0.054	0.049		0.051	11.54
50)	tert-Butyl Formate										
		0.474	0.404	0.360	0.396	0.381	0.389	0.399	0.404		0.401	8.26
51)	bromochloromethane										
		0.151	0.242	0.215	0.239	0.226	0.205	0.223	0.212	0.178	0.210	13.92

Initial Calibration Summary

Job Number: JA98695 **Sample:** VX5242-ICC5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X122923.D
Project: BMSMC, Building 5 Area, PR

```
52)  tetrahydrofuran
                        0.130 0.149 0.148 0.129 0.186 0.155         0.149   13.96
53)  chloroform
            0.682 0.891 0.717 0.801 0.773 0.674 0.835 0.737         0.764    9.96
54)  dibromofluoromethane (s)
                        0.369 0.412 0.400 0.373 0.293 0.410         0.376   11.95
55)  1,2-dichloroethane-d4 (s)
                        0.399 0.451 0.438 0.399 0.325 0.462         0.412   12.17
56)  freon 113
            0.241 0.217 0.232 0.256 0.242 0.248 0.245 0.257 0.281   0.247    7.20
57)  methacrylonitrile
                        0.229 0.258 0.249 0.220 0.284 0.241         0.247    9.21
58)  1,1,1-trichloroethane
            0.443 0.618 0.540 0.600 0.568 0.510 0.605 0.548 0.752   0.576   14.82
59)  cyclohexane
            0.388 0.603 0.497 0.570 0.535 0.461 0.568 0.531         0.519   13.29
60)  tert amyl alcohol
                  0.033 0.041 0.046 0.042 0.047 0.042 0.040         0.042   10.89
61)  iso-octane
                  1.629 1.262 1.491 1.492 1.304 1.616 1.604         1.486   10.09

62) I   1,4-difluorobenzene   ----------------ISTD---------------------
63)  di-isobutylene
                                                                    0.000   -1.00
64)  epichlorohydrin
            0.027 0.024 0.019 0.020 0.020 0.021 0.021 0.020         0.021   11.97
65)  n-butyl alcohol
            0.010 0.010 0.008 0.009 0.008 0.009 0.008 0.009         0.009    7.88
66)  carbon tetrachloride
            0.244 0.367 0.312 0.349 0.335 0.293 0.353 0.326         0.322   12.20
67)  1,1-dichloropropene
            0.293 0.403 0.341 0.389 0.380 0.320 0.390 0.359         0.359   10.75
68)  hexane
                  0.393 0.293 0.346 0.350 0.313 0.387 0.365         0.350   10.53
69)  benzene
            0.983 1.318 1.036 1.184 1.165 0.951 1.248 1.104         1.124   11.49
70)  tert-amyl methyl ether
            1.084 0.890 0.751 0.836 0.826 0.789 0.871 0.868         0.864   11.55
71)  heptane
                  0.236 0.187 0.219 0.227 0.200 0.236 0.228         0.219    8.61
72)  isopropyl acetate
                  0.497 0.524 0.601 0.476 0.564 0.579 0.494         0.534    9.00
73)  1,2-dichloroethane
            0.287 0.408 0.330 0.373 0.369 0.309 0.384 0.346 0.466   0.363   14.85
74)  trichloroethene
            0.209 0.298 0.262 0.299 0.287 0.248 0.297 0.268         0.271   11.60
75)  ethyl acrylate
            0.450 0.368 0.334 0.381 0.372 0.373 0.392 0.340         0.376    9.51
76)  tert amyl ethyl ether
            0.407 0.344 0.411 0.459 0.438 0.453 0.447 0.409         0.421    8.89
77)  2-nitropropane
                                                                    0.000   -1.00
78)  2-chloroethyl vinyl ether
            0.109 0.099 0.092 0.099 0.095 0.099 0.098 0.096         0.098    5.20
79)  methyl methacrylate
            0.138 0.223 0.170 0.191 0.185 0.162 0.195 0.172         0.180   14.11
80)  1,2-dichloropropane
            0.250 0.362 0.303 0.338 0.328 0.287 0.341 0.309 0.415   0.326   14.47
81)  dibromomethane
            0.130 0.199 0.165 0.183 0.176 0.158 0.181 0.165 0.200   0.173   12.67
```

Initial Calibration Summary

Job Number: JA98695 **Sample:** VX5242-ICC5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X122923.D
Project: BMSMC, Building 5 Area, PR

```
 82)  methylcyclohexane
            0.538 0.415 0.358 0.413 0.409 0.373 0.426 0.433         0.421   12.84
 83)  bromodichloromethane
            0.324 0.467 0.385 0.425 0.407 0.366 0.420 0.380         0.397   10.87
 84)  cis-1,3-dichloropropene
            0.395 0.609 0.490 0.552 0.535 0.460 0.547 0.495         0.510   12.82
 85)  toluene-d8 (s)
                        0.882 1.034 1.006 0.847 0.782 1.071         0.937   12.36
 86)  4-methyl-2-pentanone
                  0.116 0.102 0.116 0.110 0.098 0.113 0.102         0.108    6.64
 87)  toluene
            0.593 0.807 0.651 0.742 0.722 0.601 0.771 0.692         0.697   11.16
 88)  3-methyl-1-butanol
                        0.012 0.014 0.013 0.013 0.016 0.014         0.014    8.64
 89)  trans-1,3-dichloropropene
            0.340 0.528 0.433 0.485 0.468 0.404 0.474 0.437         0.446   12.81
 90)  ethyl methacrylate
            0.307 0.452 0.350 0.394 0.380 0.324 0.390 0.356         0.369   12.32
 91)  1,1,2-trichloroethane
            0.183 0.264 0.212 0.235 0.226 0.200 0.241 0.212         0.222   11.41
 92)  2-hexanone
                  0.118 0.094 0.109 0.103 0.091 0.102 0.095         0.102    9.38

 93) I   chlorobenzene-d5      ----------------ISTD---------------------
 94)  3,3-Dimethyl-1-butanol
                  0.038 0.027 0.031 0.030 0.030 0.031 0.030         0.031   10.65
 95)  tetrachloroethene
            0.248 0.300 0.242 0.279 0.288 0.223 0.277 0.253         0.264    9.91
 96)  1,3-dichloropropane
            0.381 0.533 0.420 0.472 0.467 0.392 0.498 0.442         0.451   11.59
 97)  butyl acetate
                  0.252 0.190 0.210 0.212 0.204 0.230 0.220         0.217    9.08
 98)  dibromochloromethane
            0.257 0.383 0.317 0.352 0.333 0.302 0.349 0.317         0.326   11.61
 99)  1,2-dibromoethane
            0.220 0.317 0.265 0.294 0.283 0.253 0.295 0.261         0.274   11.04
100)  n-butyl ether
                                                                    0.000   -1.00
101)  chlorobenzene
            0.751 1.000 0.788 0.888 0.881 0.730 0.929 0.820         0.848   10.94
102)  1,1,1,2-tetrachloroethane
            0.258 0.345 0.289 0.323 0.317 0.272 0.334 0.298         0.304   10.04
103)  ethylbenzene
            1.361 1.696 1.258 1.450 1.471 1.141 1.571 1.393         1.418   12.24
104)  m,p-xylene
            0.562 0.658 0.486 0.556 0.574 0.440 0.603 0.530         0.551   12.22
105)  o-xylene
            0.502 0.662 0.516 0.585 0.582 0.475 0.602 0.551         0.559   10.88
106)  styrene
            0.815 1.129 0.870 0.996 0.999 0.790 1.031 0.931         0.945   12.24
107)  bromoform
            0.170 0.257 0.213 0.235 0.216 0.207 0.218 0.198         0.214   11.94

108) I   1,4-dichlorobenzene-d ----------------ISTD---------------------
109)  isopropylbenzene
            2.476 3.155 2.384 2.766 2.835 2.158 3.026 2.642         2.680   12.46
110)  4-bromofluorobenzene (s)
                        0.751 0.885 0.886 0.732 0.888 1.038         0.863   12.89
111)  bromobenzene
            0.643 0.892 0.689 0.778 0.779 0.636 0.806 0.721         0.743   11.77
```

Initial Calibration Summary

Job Number: JA98695 **Sample:** VX5242-ICC5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X122923.D
Project: BMSMC, Building 5 Area, PR

112)	1,1,2,2-tetrachloroethane									
	0.663	0.927	0.667	0.750	0.729	0.626	0.795	0.685	0.730	13.18
113)	trans-1,4-dichloro-2-butene									
	0.159	0.207	0.178	0.199	0.192	0.168	0.198	0.175	0.184	9.15
114)	1,2,3-trichloropropane									
		0.211	0.156	0.176	0.173	0.145	0.182	0.171	0.173	12.05
115)	n-propylbenzene									
			2.742	3.215	3.433	2.444	3.668	3.174	3.113	14.44
116)	4-ethyltoluene									
	3.223	2.462	2.406	2.786	2.816	2.521	3.059	2.679	2.744	10.52
117)	2-chlorotoluene									
	0.678	0.801	0.605	0.687	0.704	0.558	0.752	0.644	0.679	11.46
118)	4-chlorotoluene									
	2.114	2.515	1.881	2.141	2.213	1.720	2.320	2.030	2.117	11.71
119)	1,3,5-trimethylbenzene									
	2.218	2.717	1.979	2.280	2.380	1.797	2.537	2.232	2.267	12.86
120)	tert-butylbenzene									
	1.801	2.252	1.753	2.002	2.047	1.586	2.145	1.913	1.937	11.29
121)	pentachloroethane									
	0.387	0.537	0.431	0.469	0.458	0.419	0.486	0.448	0.454	10.00
122)	1,2,4-trimethylbenzene									
	2.698	2.980	2.090	2.406	2.517	1.878	2.651	2.334	2.444	14.34
123)	1,2,3-trimethylbenzene									
									0.000	-1.00
124)	sec-butylbenzene									
	2.869	3.397	2.584	2.994	3.095	2.309	3.213	2.869	2.916	11.89
125)	1,3-dichlorobenzene									
	1.474	1.700	1.259	1.429	1.467	1.160	1.526	1.342	1.420	11.74
126)	p-isopropyltoluene									
	2.422	2.808	2.119	2.452	2.584	1.901	2.619	2.345	2.406	11.98
127)	1,4-dichlorobenzene									
	1.546	1.730	1.273	1.437	1.477	1.174	1.523	1.334	1.437	12.16
128)	1,2-dichlorobenzene									
	1.407	1.639	1.249	1.397	1.422	1.152	1.424	1.302	1.374	10.54
129)	benzyl chloride									
	1.848	1.558	1.205	1.344	1.336	1.251	1.394	1.372	1.414	14.47
130)	1,4-diethylbenzene									
	1.663	1.230	1.334	1.527	1.523	1.399	1.604	1.454	1.467	9.73
131)	n-butylbenzene									
	1.416	1.531	1.173	1.360	1.479	1.068	1.418	1.299	1.343	11.67
132)	1,2,4,5-tetramethylbenzene									
	2.759	1.988	2.200	2.494	2.515	2.273	2.577	2.327	2.392	10.14
133)	1,2-dibromo-3-chloropropane									
			0.117	0.129	0.126	0.112	0.138	0.120	0.124	7.72
134)	1,3,5-trichlorobenzene									
	1.121	1.248	1.004	1.123	1.222	0.908	1.126	1.056	1.101	10.10
135)	hexachlorobutadiene									
	0.538	0.604	0.493	0.554	0.606	0.456	0.576	0.515	0.543	9.80
136)	naphthalene									
	2.204	2.270	1.859	2.037	1.973	1.723	1.910	1.752	1.966	10.06
137)	1,2,4-trichlorobenzene									
	0.908	1.015	0.894	0.979	1.026	0.826	0.902	0.857	0.926	7.89
138)	1,2,3-trichlorobenzene									
	0.749	0.873	0.821	0.898	0.893	0.765	0.797	0.755	0.819	7.59
139)	hexachloroethane									
	0.353	0.484	0.435	0.469	0.465	0.408	0.471	0.414	0.437	10.10

(#) = Out of Range ### Number of calibration levels exceeded format ###

MX5242.M Tue Feb 14 17:22:08 2012 ACCNJ

Initial Calibration Verification

Job Number: JA98695 **Sample:** VX5242-ICV5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X122927.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\MSDCHEM\1\DATA\X122927.D                    Vial: 21
Acq On    : 19 Jan 2012  12:06 am                     Operator: tamikag
Sample    : ICV5242-50                                Inst    : MSX
Misc      : MS24268,VX5242,5.0,,,,1                   Multiplr: 1.00
MS Integration Params: Rteint.p

Method       : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Thu Jan 19 11:01:08 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	100	0.00	7.27
2		tertiary butyl alcohol	1.347	1.322	1.9	99	0.00	7.40
3		ethyl alcohol		----------NA----------				
4		1,4-dioxane	0.111	0.119	-7.2	102	0.00	12.07
5	I	pentafluorobenzene	1.000	1.000	0.0	106	0.00	9.96
6	m	freon 23		----------NA----------				
7	m	freon 115		----------NA----------				
8	m	freon 143a		----------NA----------				
9	m	freon 152a		----------NA----------				
10	m	chlorotrifluoroethene		----------NA----------				
11		chlorodifluoromethane	0.390	0.314	19.5	88	-0.01	3.75
12		dichlorodifluoromethane	0.511	0.482	5.7	97	0.00	3.73
13	m	freon 114		----------NA----------				
14	m	freon 142b		----------NA----------				
15		chloromethane	0.664	0.603	9.2	97	0.00	4.07
16		vinyl chloride	0.497	0.475	4.4	98	0.00	4.32
17	m	acetaldehyde		----------NA----------				
		----------	True	Calc.	% Drift	----------		
18		bromomethane	50.000	46.643	6.7	100	0.00	4.97
		----------	AvgRF	CCRF	% Dev	----------		
19		chloroethane	0.271	0.256	5.5	101	0.00	5.15
20		vinyl bromide	0.345	0.349	-1.2	100	-0.01	5.51
21		trichlorofluoromethane	0.563	0.535	5.0	99	0.00	5.63
22		pentane	0.639	0.548	14.2	92	0.00	5.70
23		ethyl ether	0.234	0.248	-6.0	102	0.00	6.05
24	m	freon 141b		----------NA----------				
25	m	freon 123a		----------NA----------				
26	m	freon 123		----------NA----------				
27		acrolein	0.084	0.074	11.9	96	0.00	6.32
28		1,1-dichloroethene	0.348	0.351	-0.9	100	0.00	6.50
29		acetone	0.033	0.036	-9.1	96	0.00	6.57
30		allyl chloride	0.249	0.257	-3.2	102	0.00	7.08
31		acetonitrile	0.036	0.034	5.6	102	0.00	7.05
32		iodomethane	0.687	0.711	-3.5	101	0.00	6.80
33		iso-butyl alcohol	0.020	0.019	5.0	98	0.00	10.35
34		carbon disulfide	1.345	1.326	1.4	99	-0.01	6.93
35		methylene chloride	0.489	0.468	4.3	101	0.00	7.30
36		methyl acetate	0.328	0.307	6.4	98	0.00	7.07
37		methyl tert butyl ether	1.204	1.139	-5.4	96	0.00	7.67

Initial Calibration Verification

Job Number: JA98695 **Sample:** VX5242-ICV5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X122927.D
Project: BMSMC, Building 5 Area, PR

38		trans-1,2-dichloroethene	0.400	0.399	0.3	100	0.00	7.72
39		di-isopropyl ether	1.709	1.586	7.2	102	0.00	8.37
40		2-butanone	0.042	0.045	-7.1	97	-0.01	9.25
41		1,1-dichloroethane	0.774	0.796	-2.8	102	0.00	8.39
42		chloroprene	0.623	0.590	5.3	101	0.00	8.51
43		acrylonitrile	0.135	0.137	-1.5	98	0.00	7.67
44		vinyl acetate	0.060	0.069	-15.0	113	-0.01	8.38
45		ethyl tert-butyl ether	1.478	1.437	2.8	104	0.00	8.93
46		ethyl acetate	0.044	0.046	-4.5	102	0.00	9.29
47		2,2-dichloropropane	0.550	0.537	2.4	98	0.00	9.29
48		cis-1,2-dichloroethene	0.461	0.473	-2.6	102	0.00	9.29
49		propionitrile	0.051	0.052	-2.0	99	0.00	9.38
50		tert-Butyl Formate	0.401	0.373	7.0	100	0.00	9.79
51		bromochloromethane	0.210	0.228	-8.6	101	0.00	9.67
52		tetrahydrofuran	0.149	0.138	7.4	98	0.00	9.72
53		chloroform	0.764	0.765	-0.1	101	0.00	9.76
54	S	dibromofluoromethane (s)	0.376	0.391	-4.0	101	0.00	10.01
55	S	1,2-dichloroethane-d4 (s)	0.412	0.421	-2.2	99	0.00	10.54
56		freon 113	0.247	0.261	-5.7	108	-0.01	6.48
57		methacrylonitrile	0.247	0.239	3.2	98	0.00	9.60
58		1,1,1-trichloroethane	0.576	0.563	2.3	99	0.00	10.06
59		cyclohexane	0.519	0.527	-1.5	98	0.00	10.14
60	m	tert amyl alcohol	0.042	0.039	-8.3	89	0.00	10.49
61	m	iso-octane	1.486	1.428	3.9	102	0.00	10.63
62	I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00	11.12
63		di-isobutylene		----------NA----------				
64		epichlorohydrin	0.021	0.019	9.5	97	0.00	12.66
65		n-butyl alcohol	0.009	0.009	0.0	102	0.00	11.32
66		carbon tetrachloride	0.322	0.332	-3.1	100	0.00	10.32
67		1,1-dichloropropene	0.359	0.378	-5.3	102	0.00	10.28
68		hexane	0.350	0.368	-5.1	112	0.00	8.07
69		benzene	1.124	1.139	-1.3	101	0.00	10.62
70		tert-amyl methyl ether	0.864	0.874	-1.2	110	0.00	10.68
71		heptane	0.219	0.257	-17.4	123	0.00	10.86
72		isopropyl acetate	0.540	0.427	20.9#	75	0.00	10.56
73		1,2-dichloroethane	0.363	0.354	2.5	100	0.00	10.65
74		trichloroethene	0.271	0.288	-6.3	101	0.00	11.56
75	m	ethyl acrylate	0.376	0.351	6.6	97	0.00	11.60
76	m	tert amyl ethyl ether	0.421	0.427	1.3	98	0.00	11.80
77		2-nitropropane		----------NA----------				
78		2-chloroethyl vinyl ether	0.098	0.092	6.1	98	0.00	12.66
79		methyl methacrylate	0.180	0.183	-1.7	101	0.00	11.95
80		1,2-dichloropropane	0.326	0.322	1.2	100	0.00	11.91
81		dibromomethane	0.173	0.175	-1.2	101	0.00	12.12
82		methylcyclohexane	0.421	0.431	-2.4	110	0.00	11.84
83		bromodichloromethane	0.397	0.410	-3.3	101	0.00	12.31
84		cis-1,3-dichloropropene	0.510	0.527	-3.3	101	0.00	12.94
85	S	toluene-d8 (s)	0.937	0.964	-2.9	98	0.00	13.32
86		4-methyl-2-pentanone	0.108	0.109	-0.9	99	0.00	13.08
87		toluene	0.697	0.720	-3.3	102	0.00	13.41
88		3-methyl-1-butanol	0.014	0.013	7.1	100	0.00	13.13
89		trans-1,3-dichloropropene	0.446	0.465	-4.3	101	0.00	13.70
90		ethyl methacrylate	0.369	0.372	-0.8	99	0.00	13.72
91		1,1,2-trichloroethane	0.222	0.223	-0.5	100	0.00	13.99
92		2-hexanone	0.102	0.101	1.0	97	0.00	14.24
93	I	chlorobenzene-d5	1.000	1.000	0.0	105	0.00	15.35
94		3,3-Dimethyl-1-butanol	0.031	0.029	6.5	98	0.00	14.49
95		tetrachloroethene	0.264	0.280	-6.1	105	0.00	14.20

Initial Calibration Verification

Job Number: JA98695 **Sample:** VX5242-ICV5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X122927.D
Project: BMSMC, Building 5 Area, PR

96		1,3-dichloropropane	0.451	0.456	-1.1	102	0.00	14.23
97		butyl acetate	0.217	0.209	3.7	104	0.00	14.36
98		dibromochloromethane	0.326	0.338	-3.7	101	0.00	14.58
99		1,2-dibromoethane	0.274	0.282	-2.9	101	0.00	14.77
100	m	n-butyl ether		----------NA----------				
101		chlorobenzene	0.848	0.868	-2.4	103	0.00	15.39
102		1,1,1,2-tetrachloroethane	0.304	0.313	-3.0	102	0.00	15.48
103		ethylbenzene	1.418	1.420	-0.1	103	0.00	15.47
104		m,p-xylene	0.551	0.553	-0.4	105	0.00	15.62
105		o-xylene	0.559	0.572	-2.3	103	0.00	16.16
106		styrene	0.945	0.976	-3.3	103	0.00	16.18
107		bromoform	0.214	0.222	-3.7	99	0.00	16.51
108	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	106	0.00	18.14
109		isopropylbenzene	2.680	2.676	0.1	103	0.00	16.61
110	S	4-bromofluorobenzene (s)	0.863	0.807	6.5	97	0.00	16.85
111		bromobenzene	0.743	0.756	-1.7	103	0.00	17.07
112		1,1,2,2-tetrachloroethane	0.730	0.706	3.3	100	0.00	17.00
113		trans-1,4-dichloro-2-bute	0.184	0.184	0.0	98	0.00	17.05
114		1,2,3-trichloropropane	0.173	0.168	2.9	101	0.00	17.07
115		n-propylbenzene	3.113	3.212	-3.2	106	0.00	17.10
116	m	4-ethyltoluene	2.744	2.525	8.0	96	0.00	17.22
117		2-chlorotoluene	0.679	0.677	0.3	105	0.00	17.26
118		4-chlorotoluene	2.117	2.118	-0.0	105	0.00	17.37
119		1,3,5-trimethylbenzene	2.267	2.244	1.0	105	0.00	17.28
120		tert-butylbenzene	1.937	1.940	-0.2	103	0.00	17.66
121		pentachloroethane	0.454	0.461	-1.5	104	0.00	17.75
122		1,2,4-trimethylbenzene	2.444	2.377	2.7	105	0.00	17.71
123	m	1,2,3-trimethylbenzene		----------NA----------				
124		sec-butylbenzene	2.916	2.965	-1.7	105	0.00	17.89
125		1,3-dichlorobenzene	1.420	1.418	0.1	105	0.00	18.08
126		p-isopropyltoluene	2.406	2.492	-3.6	108	0.00	18.02
127		1,4-dichlorobenzene	1.437	1.422	1.0	105	0.00	18.17
128		1,2-dichlorobenzene	1.374	1.364	0.7	104	0.00	18.56
129		benzyl chloride	1.414	1.239	12.4	98	0.00	18.29
130	m	1,4-diethylbenzene	1.467	1.370	6.6	95	0.00	18.41
131		n-butylbenzene	1.343	1.457	-8.5	114	0.00	18.44
132	m	1,2,4,5-tetramethylbenzen	2.392	2.277	4.8	97	0.00	19.16
133		1,2-dibromo-3-chloropropa	0.124	0.119	4.0	98	0.00	19.31
134		1,3,5-trichlorobenzene	1.101	1.186	-7.7	112	0.00	19.48
135		hexachlorobutadiene	0.543	0.605	-11.4	116	0.00	20.19
136		naphthalene	1.966	1.961	0.3	102	0.00	20.36
137		1,2,4-trichlorobenzene	0.926	1.018	-9.9	110	0.00	20.09
138	m	1,2,3-trichlorobenzene	0.819	0.897	-9.5	106	0.00	20.59
139		hexachloroethane	0.437	0.449	-2.7	102	0.00	18.80

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X122923.D MX5242.M Thu Jan 19 11:25:04 2012 MSX

Initial Calibration Verification

Job Number: JA98695 **Sample:** VX5273-ICV5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X123477A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\X\VX5273FINAL\X123477a.D Vial: 14
Acq On : 7 Feb 2012 7:07 pm Operator: tamikag
Sample : ICV5242-50 Inst : MSX
Misc : MS25125,VX5273,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\MX5273.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Wed Feb 08 08:43:34 2012
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	101	-0.02	7.26
2	I	pentafluorobenzene	1.000	1.000	0.0	100	0.00	9.96
3		freon 115	0.048	0.046	4.2	92	0.00	3.39
4		freon 23	0.148	0.148	0.0	95	0.00	3.42
5	m	freon 143a	0.098	0.097	1.0	96	0.00	3.43
		----------	True	Calc.	% Drift	----------		
6	m	freon 152a	50.000	51.698	-3.4	100	0.00	3.58
		----------	AvgRF	CCRF	% Dev	----------		
7	m	chlorotrifluoroethene	0.153	0.158	-3.3	97	-0.01	3.65
8	m	freon 114	0.193	0.193	0.0	94	0.00	3.99
9	m	freon 142b	0.425	0.449	-5.6	99	0.00	3.99
10		1,3-butadiene	0.352	0.362	-2.8	99	0.00	4.37
11		acetaldehyde	0.052	0.056	-7.7	107	-0.02	4.53
12		vinyl bromide	0.351	0.356	-1.4	99	0.00	5.51
13		pentane	0.694	0.669	3.6	95	-0.01	5.70
14		freon 141b	0.499	0.518	-3.8	98	-0.01	6.06
15	m	freon 123a	0.526	0.548	-4.2	100	-0.02	6.09
16	m	freon 123	0.574	0.594	-3.5	97	0.00	6.20
17		2-chloropropane	0.734	0.739	-0.7	99	-0.01	6.25
18		1-chloropropane	0.251	0.249	0.8	100	0.00	7.33
19	S	dibromofluoromethane (s)	0.462	0.442	4.3	100	0.00	10.00
20	S	1,2-dichloroethane-d4 (s)	0.466	0.465	0.2	102	0.00	10.53
21	m	tert amyl alcohol	0.035	0.038	-8.6	102	0.00	10.49
22		2,2,4-trimethylpentane	1.681	1.607	4.4	93	0.00	10.63
23	I	1,4-difluorobenzene	1.000	1.000	0.0	101	0.00	11.12
24	m	ethyl acrylate	0.319	0.354	-11.0	102	0.00	11.59
25	m	tert amyl ethyl ether	0.451	0.462	-2.4	101	0.00	11.79
26		2-nitropropane	0.067	0.072	-7.5	103	0.00	12.62
27	S	toluene-d8 (s)	1.183	1.124	5.0	98	0.00	13.31
28	I	chlorobenzene-d5	1.000	1.000	0.0	101	0.00	15.34
29	m	n-butyl ether	1.407	1.449	-3.0	99	0.00	15.33
30		butyl acrylate	0.586	0.628	-7.2	103	0.00	15.98
31		n-amyl acetate	0.459	0.498	-8.5	103	0.00	16.26
32		cyclohexanone	0.010	0.010	0.0	97	0.00	16.80
33	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	102	0.00	18.14
34	S	4-bromofluorobenzene (s)	0.949	0.896	5.6	98	0.00	16.84

Initial Calibration Verification

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: VX5273-ICV5242
Lab FileID: X123477A.D

35 m	4-ethyltoluene	3.004	2.941	2.1	96	0.00	17.22
36	1,2,3-trimethylbenzene	2.714	2.626	3.2	98	0.00	18.17
37 m	1,4-diethylbenzene	1.770	1.721	2.8	94	0.00	18.40
	----------	True	Calc.	% Drift	----------		
38	indane	50.000	56.177	-12.4	99	0.00	18.41
	----------	AvgRF	CCRF	% Dev	----------		
39 m	1,2,4,5-tetramethylbenzen	2.622	2.633	-0.4	96	0.00	19.16

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X123471.D MX5273.M Thu Feb 16 14:48:33 2012 ACCNJ

5.9.6

5

Continuing Calibration Summary

Job Number: JA98695 **Sample:** VX5283-CC5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X123639A.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\msdchem\1\DATA\X\VX5883\X123639A.D        Vial: 3
Acq On    : 11 Feb 2012  11:28 am                    Operator: tamikag
Sample    : CC5242-20                                Inst    : MSX
Misc      : MS25397,VX5283,5.0,,,,1                  Multiplr: 1.00
MS Integration Params: Rteint.p

Method       : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title        : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update  : Thu Jan 19 11:19:53 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  20%     Max. Rel. Area : 200%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	tert butyl alcohol-d9	1.000	1.000	0.0	99	0.02	7.29
2		tertiary butyl alcohol	1.347	1.310	2.7	98	0.03	7.43
3		ethyl alcohol		----------NA----------				
4		1,4-dioxane	0.111	0.124	-11.7	106	0.02	12.09
5	I	pentafluorobenzene	1.000	1.000	0.0	99	0.02	9.99
6	m	freon 23		----------NA----------				
7	m	freon 115		----------NA----------				
8	m	freon 143a		----------NA----------				
9	m	freon 152a		----------NA----------				
10	m	chlorotrifluoroethene		----------NA----------				
11		chlorodifluoromethane	0.390	0.385	1.3	106	0.00	3.77
12		dichlorodifluoromethane	0.511	0.505	1.2	95	0.02	3.75
13	m	freon 114		----------NA----------				
14	m	freon 142b		----------NA----------				
15		chloromethane	0.664	0.601	9.5	92	0.01	4.08
16		vinyl chloride	0.497	0.501	-0.8	97	0.01	4.33
17	m	acetaldehyde		----------NA----------				
		----------	True	Calc.	% Drift	----------		
18		bromomethane	20.000	23.229	-16.1	116	0.02	4.99
		----------	AvgRF	CCRF	% Dev	----------		
19		chloroethane	0.274	0.279	-1.8	104	0.02	5.17
20		vinyl bromide		----------NA----------				
21		trichlorofluoromethane	0.563	0.611	-8.5	104	0.02	5.66
22		pentane	0.639	0.711	-11.3	115	0.02	5.73
23		ethyl ether	0.234	0.250	-6.8	99	0.03	6.08
24	m	freon 141b		----------NA----------				
25	m	freon 123a		----------NA----------				
26	m	freon 123		----------NA----------				
27		acrolein	0.084	0.064	23.8#	76	0.03	6.36
28		1,1-dichloroethene	0.348	0.378	-8.6	105	0.02	6.53
29		acetone	0.033	0.031	6.1	89	0.03	6.60
30		allyl chloride	0.249	0.258	-3.6	103	0.03	7.11
31		acetonitrile	0.036	0.033	8.3	100	0.03	7.08
32		iodomethane	0.687	0.777	-13.1	111	0.03	6.83
33		iso-butyl alcohol	0.020	0.018	10.0	91	0.02	10.37
34		carbon disulfide	1.345	1.367	-1.6	101	0.02	6.96
35		methylene chloride	0.489	0.507	-3.7	106	0.03	7.33
36		methyl acetate	0.328	0.312	4.9	103	0.02	7.09
37		methyl tert butyl ether	1.204	1.216	-1.0	101	0.02	7.69

Continuing Calibration Summary

Job Number: JA98695 **Sample:** VX5283-CC5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X123639A.D
Project: BMSMC, Building 5 Area, PR

38		trans-1,2-dichloroethene	0.400	0.438	-9.5	105	0.03	7.75
39		di-isopropyl ether	1.709	1.546	9.5	93	0.02	8.40
40		2-butanone	0.042	0.044	-4.8	98	0.02	9.29
41		1,1-dichloroethane	0.774	0.823	-6.3	100	0.02	8.41
42		chloroprene	0.623	0.602	3.4	100	0.02	8.54
43		acrylonitrile	0.135	0.142	-5.2	100	0.02	7.70
44		vinyl acetate	0.060	0.062	-3.3	99	0.02	8.41
45		ethyl tert-butyl ether	1.478	1.473	0.3	102	0.03	8.97
46		ethyl acetate	0.044	0.045	-2.3	98	0.03	9.31
47		2,2-dichloropropane	0.550	0.569	-3.5	102	0.02	9.31
48		cis-1,2-dichloroethene	0.461	0.508	-10.2	106	0.02	9.32
49		propionitrile	0.051	0.055	-7.8	101	0.02	9.41
50		tert-Butyl Formate	0.401	0.355	11.5	92	0.03	9.82
51		bromochloromethane	0.210	0.253	-20.5#	111	0.03	9.70
52		tetrahydrofuran	0.149	0.141	5.4	95	0.02	9.75
53		chloroform	0.764	0.806	-5.5	104	0.02	9.78
54	S	dibromofluoromethane (s)	0.376	0.407	-8.2	101	0.02	10.03
55	S	1,2-dichloroethane-d4 (s)	0.412	0.394	4.4	89	0.02	10.56
56		freon 113	0.247	0.304	-23.1#	125	0.02	6.51
57		methacrylonitrile	0.247	0.231	6.5	92	0.02	9.63
58		1,1,1-trichloroethane	0.576	0.606	-5.2	106	0.02	10.08
59		cyclohexane	0.519	0.574	-10.6	106	0.03	10.17
60	m	tert amyl alcohol		----------NA----------				
61	m	iso-octane	1.486	1.388	6.6	92	0.02	10.66
62	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.02	11.15
63		di-isobutylene		----------NA----------				
64		epichlorohydrin	0.021	0.015	28.6#	74	0.02	12.68
65		n-butyl alcohol	0.009	0.008	11.1	92	0.02	11.35
66		carbon tetrachloride	0.322	0.368	-14.3	108	0.02	10.34
67		1,1-dichloropropene	0.359	0.385	-7.2	100	0.02	10.31
68		hexane	0.350	0.357	-2.0	101	0.03	8.10
69		benzene	1.124	1.209	-7.6	102	0.02	10.65
70		tert-amyl methyl ether	0.864	0.869	-0.6	104	0.02	10.70
71		heptane	0.219	0.196	10.5	85	0.03	10.89
72		isopropyl acetate	0.534	0.466	12.7	97	0.02	10.58
73		1,2-dichloroethane	0.363	0.367	-1.1	98	0.02	10.67
74		trichloroethene	0.271	0.317	-17.0	109	0.02	11.59
75	m	ethyl acrylate		----------NA----------				
76	m	tert amyl ethyl ether		----------NA----------				
77		2-nitropropane		----------NA----------				
78		2-chloroethyl vinyl ether	0.098	0.077	21.4#	80	0.03	12.69
79		methyl methacrylate	0.180	0.186	-3.3	99	0.02	11.97
80		1,2-dichloropropane	0.326	0.333	-2.1	100	0.02	11.94
81		dibromomethane	0.173	0.192	-11.0	108	0.02	12.15
82		methylcyclohexane	0.421	0.463	-10.0	112	0.03	11.86
83		bromodichloromethane	0.397	0.432	-8.8	105	0.02	12.33
84		cis-1,3-dichloropropene	0.510	0.558	-9.4	103	0.02	12.96
85	S	toluene-d8 (s)	0.937	1.092	-16.5	107	0.02	13.34
86		4-methyl-2-pentanone	0.108	0.110	-1.9	99	0.02	13.10
87		toluene	0.697	0.788	-13.1	108	0.02	13.44
88		3-methyl-1-butanol	0.014	0.012	14.3	91	0.02	13.16
89		trans-1,3-dichloropropene	0.446	0.483	-8.3	102	0.02	13.73
90		ethyl methacrylate	0.369	0.376	-1.9	97	0.02	13.74
91		1,1,2-trichloroethane	0.222	0.242	-9.0	106	0.02	14.01
92		2-hexanone	0.102	0.101	1.0	97	0.02	14.26
93	I	chlorobenzene-d5	1.000	1.000	0.0	103	0.02	15.37
94		3,3-Dimethyl-1-butanol	0.031	0.026	16.1	89	0.02	14.52
95		tetrachloroethene	0.264	0.285	-8.0	102	0.02	14.22

Continuing Calibration Summary

Job Number: JA98695 **Sample:** VX5283-CC5242
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** X123639A.D
Project: BMSMC, Building 5 Area, PR

96		1,3-dichloropropane	0.451	0.475	-5.3	105	0.02	14.25
97		butyl acetate	0.217	0.198	8.8	96	0.03	14.38
98		dibromochloromethane	0.326	0.363	-11.3	113	0.02	14.60
99		1,2-dibromoethane	0.274	0.303	-10.6	111	0.02	14.79
100	m	n-butyl ether		----------NA----------				
101		chlorobenzene	0.848	0.930	-9.7	109	0.02	15.40
102		1,1,1,2-tetrachloroethane	0.304	0.336	-10.5	110	0.02	15.50
103		ethylbenzene	1.418	1.503	-6.0	105	0.02	15.49
104		m,p-xylene	0.551	0.592	-7.4	106	0.02	15.63
105		o-xylene	0.559	0.603	-7.9	107	0.02	16.18
106		styrene	0.945	1.018	-7.7	105	0.02	16.20
107		bromoform	0.214	0.246	-15.0	117	0.02	16.53
108	I	1,4-dichlorobenzene-d4	1.000	1.000	0.0	103	0.02	18.16
109		isopropylbenzene	2.680	2.974	-11.0	108	0.02	16.62
110	S	4-bromofluorobenzene (s)	0.863	0.836	3.1	97	0.02	16.87
111		bromobenzene	0.743	0.842	-13.3	112	0.02	17.09
112		1,1,2,2-tetrachloroethane	0.730	0.777	-6.4	110	0.02	17.02
113		trans-1,4-dichloro-2-bute	0.184	0.172	6.5	93	0.02	17.06
114		1,2,3-trichloropropane	0.173	0.185	-6.9	111	0.02	17.09
115		n-propylbenzene	3.113	3.407	-9.4	102	0.02	17.12
116	m	4-ethyltoluene		----------NA----------				
117		2-chlorotoluene	0.679	0.760	-11.9	111	0.02	17.28
118		4-chlorotoluene	2.117	2.235	-5.6	104	0.02	17.39
119		1,3,5-trimethylbenzene	2.267	2.500	-10.3	108	0.02	17.30
120		tert-butylbenzene	1.937	2.161	-11.6	109	0.01	17.67
121		pentachloroethane	0.454	0.527	-16.1	119	0.02	17.76
122		1,2,4-trimethylbenzene	2.444	2.572	-5.2	105	0.02	17.73
123	m	1,2,3-trimethylbenzene		----------NA----------				
124		sec-butylbenzene	2.916	3.228	-10.7	108	0.02	17.91
125		1,3-dichlorobenzene	1.420	1.563	-10.1	110	0.02	18.10
126		p-isopropyltoluene	2.406	2.686	-11.6	107	0.02	18.04
127		1,4-dichlorobenzene	1.437	1.542	-7.3	108	0.02	18.18
128		1,2-dichlorobenzene	1.374	1.502	-9.3	109	0.02	18.57
129		benzyl chloride	1.414	1.440	-1.8	111	0.02	18.31
130	m	1,4-diethylbenzene		----------NA----------				
131		n-butylbenzene	1.343	1.385	-3.1	97	0.02	18.45
132	m	1,2,4,5-tetramethylbenzen		----------NA----------				
133		1,2-dibromo-3-chloropropa	0.124	0.127	-2.4	103	0.01	19.32
134		1,3,5-trichlorobenzene	1.101	1.237	-12.4	104	0.02	19.49
135		hexachlorobutadiene	0.543	0.587	-8.1	100	0.02	20.21
136		naphthalene	1.966	2.016	-2.5	105	0.02	20.37
137		1,2,4-trichlorobenzene	0.926	1.033	-11.6	104	0.02	20.10
138	m	1,2,3-trichlorobenzene	0.819	0.921	-12.5	106	0.02	20.61
139		hexachloroethane	0.437	0.504	-15.3	112	0.02	18.82

(#) = Out of Range SPCC's out = 0 CCC's out = 0
X122922.D MX5242.M Mon Feb 13 12:09:03 2012 ACCNJ

New Jersey

ACCUTEST LABORATORIES

GC/MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123648.D
Acq On : 11 Feb 2012 4:40 pm
Operator : tamikag
Sample : JA98695-1
Misc : MS25251,VX5283,5.5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 13 12:15:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

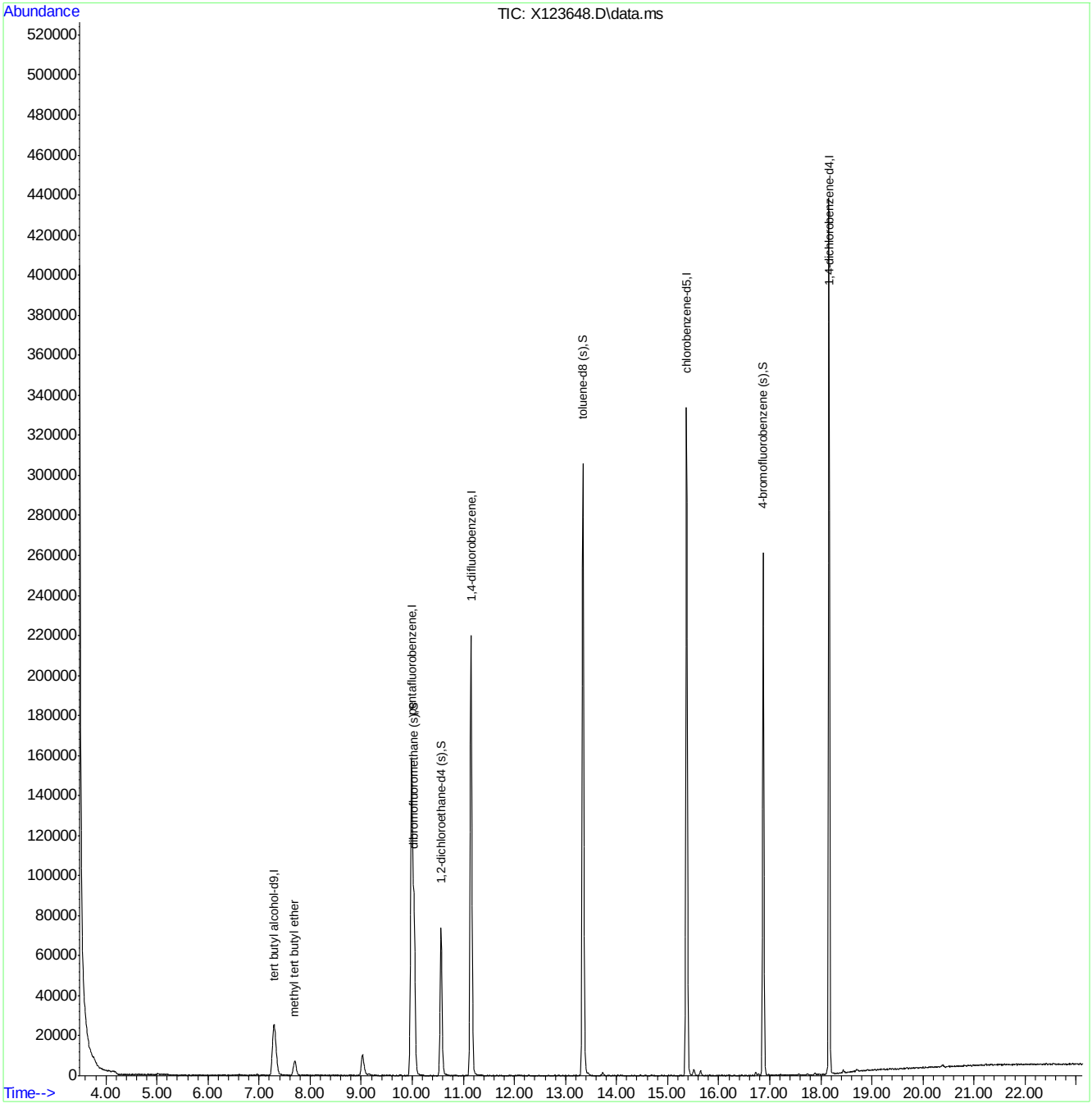
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.287	65	70881	500.00	ug/L	0.02
5) pentafluorobenzene	9.986	168	178082	50.00	ug/L	0.02
62) 1,4-difluorobenzene	11.153	114	263622	50.00	ug/L	0.03
93) chlorobenzene-d5	15.373	117	247672	50.00	ug/L	0.03
108) 1,4-dichlorobenzene-d4	18.161	152	120541	50.00	ug/L	0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.033	113	71104	53.08	ug/L	0.02
Spiked Amount 50.000	Range 67 - 131		Recovery = 106.16%			
55) 1,2-dichloroethane-d4 (s)	10.562	65	69640	47.41	ug/L	0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 94.82%			
85) toluene-d8 (s)	13.344	98	282494	57.18	ug/L	0.03
Spiked Amount 50.000	Range 76 - 125		Recovery = 114.36%			
110) 4-bromofluorobenzene (s)	16.874	95	102956	49.46	ug/L	0.03
Spiked Amount 50.000	Range 53 - 142		Recovery = 98.92%			
Target Compounds						Qvalue
37) methyl tert butyl ether	7.695	73	14987	3.49	ug/L	96

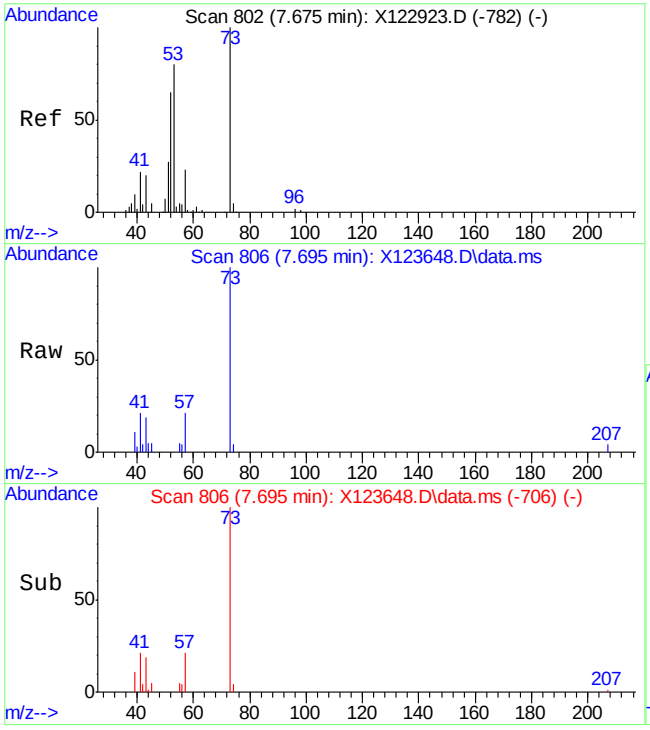
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123648.D
Acq On : 11 Feb 2012 4:40 pm
Operator : tamikag
Sample : JA98695-1
Misc : MS25251,VX5283,5.5,,,,1
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Feb 13 12:15:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

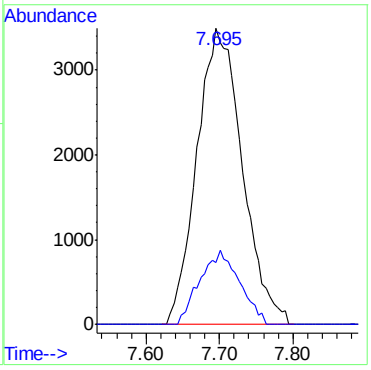




#37
methyl tert butyl ether
Concen: 3.49 ug/L
RT: 7.695 min Scan# 806
Delta R.T. 0.021 min
Lab File: X123648.D
Acq: 11 Feb 2012 4:40 pm

Tgt Ion: 73 Resp: 14987

Ion	Ratio	Lower	Upper
73	100		
57	21.7	0.0	53.6



Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V124257A.D
Acq On : 13 Feb 2012 5:34 pm
Operator : conorl
Sample : JA98695-2
Misc : MS25251,VV5348,5.8,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 13 17:57:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.80	65	96170	500.00 ug/L	0.00
4) pentafluorobenzene	9.03	168	358489	50.00 ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	549512	50.00 ug/L	0.00
93) chlorobenzene-d5	13.39	117	568974	50.00 ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	281457	50.00 ug/L	0.00

System Monitoring Compounds					
57) dibromofluoromethane (s)	9.07	113	152194	52.45 ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 104.90%		
58) 1,2-dichloroethane-d4 (s)	9.50	65	165882	49.70 ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 99.40%		
85) toluene-d8 (s)	11.71	98	610659	54.75 ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 109.50%		
109) 4-bromofluorobenzene (s)	14.70	95	243607	49.74 ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 99.48%		

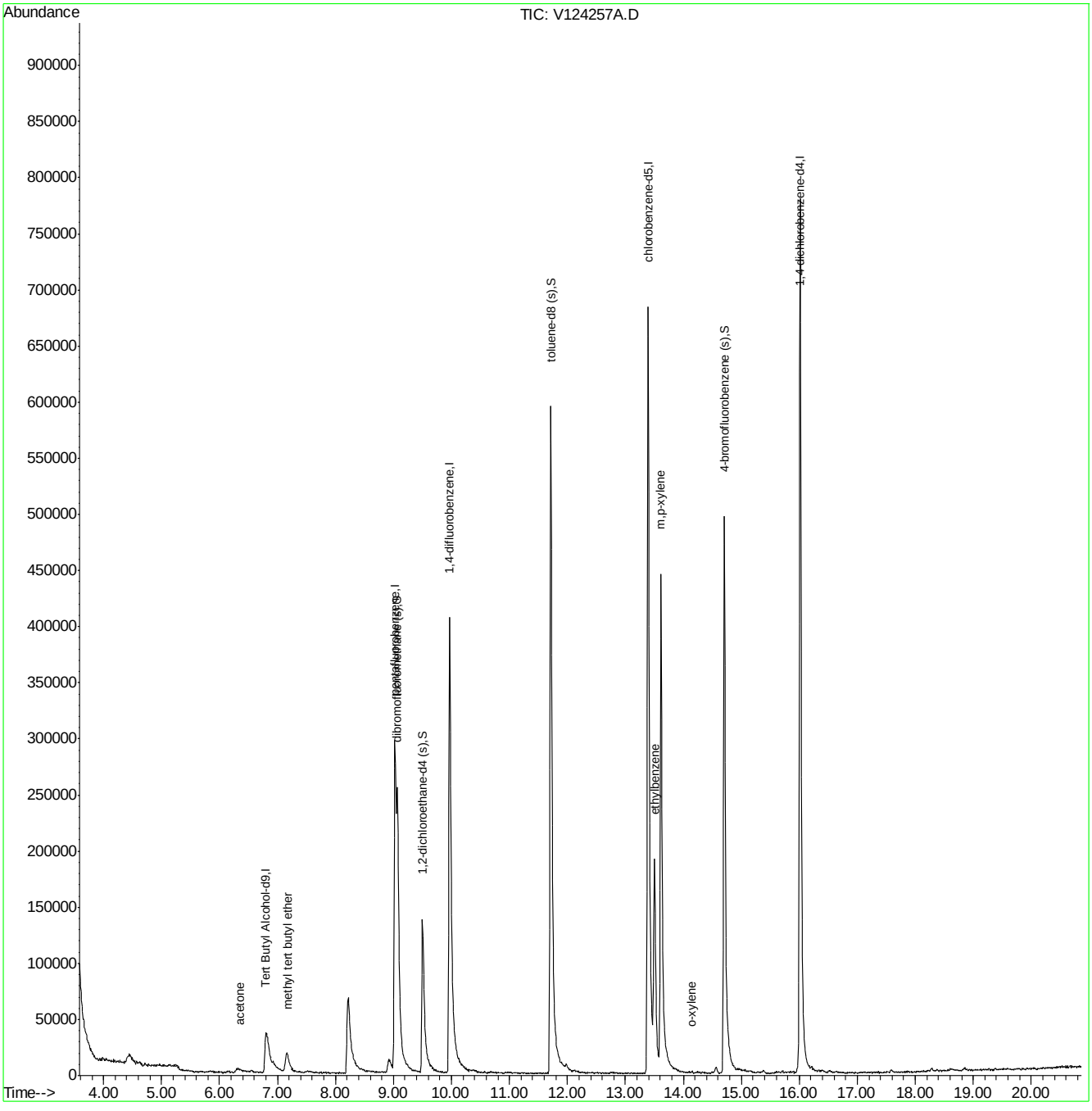
Target Compounds					Qvalue
30) acetone	6.36	58	5389	27.65 ug/L #	46
38) methyl tert butyl ether	7.17	73	36587	4.52 ug/L	91
102) ethylbenzene	13.50	91	180185	11.30 ug/L	99
103) m,p-xylene	13.62	106	199453	32.13 ug/L	97
104) o-xylene	14.14	106	1050	0.17 ug/L #	26

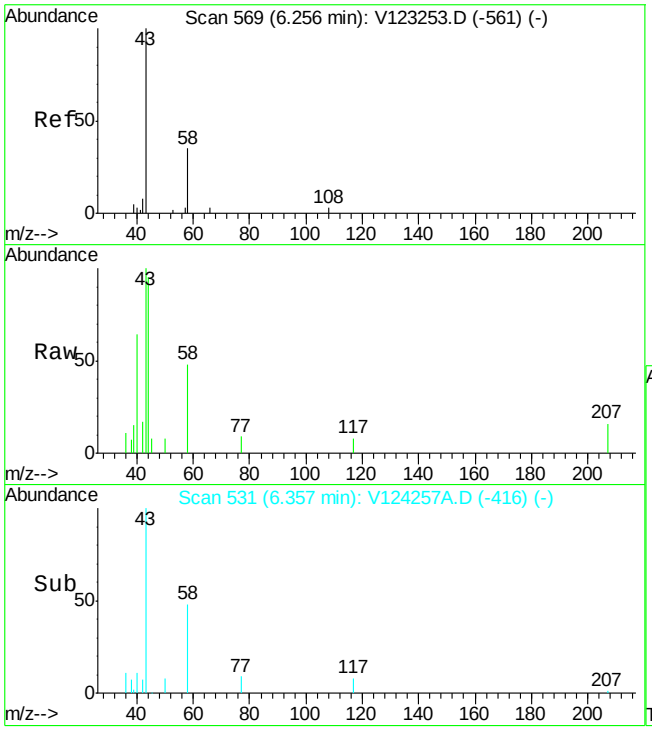
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V124257A.D
Acq On : 13 Feb 2012 5:34 pm
Operator : conorl
Sample : JA98695-2
Misc : MS25251,VV5348,5.8,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Feb 13 17:57:40 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

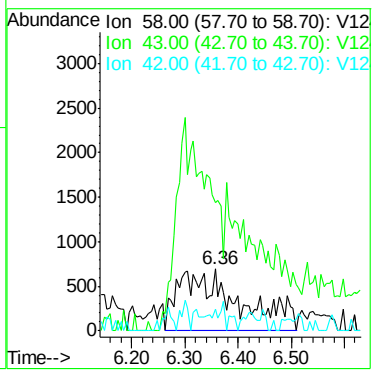


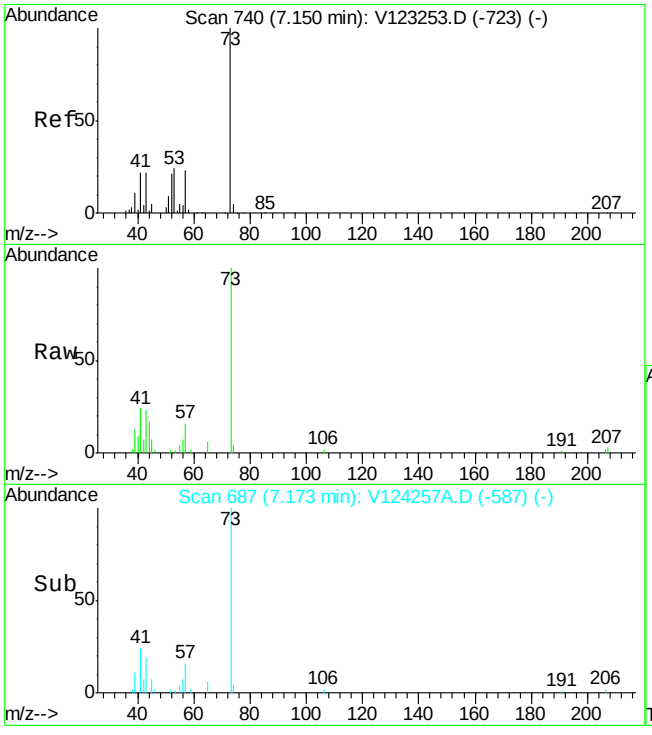


#30
acetone
Concen: 27.65 ug/L
RT: 6.36 min Scan# 531
Delta R.T. 0.10 min
Lab File: V124257A.D
Acq: 13 Feb 2012 5:34 pm

Tgt Ion: 58 Resp: 5389

Ion	Ratio	Lower	Upper
58	100		
43	178.4	201.8	374.8#
42	15.5	15.8	29.4#

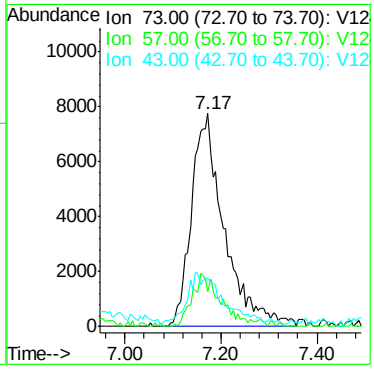


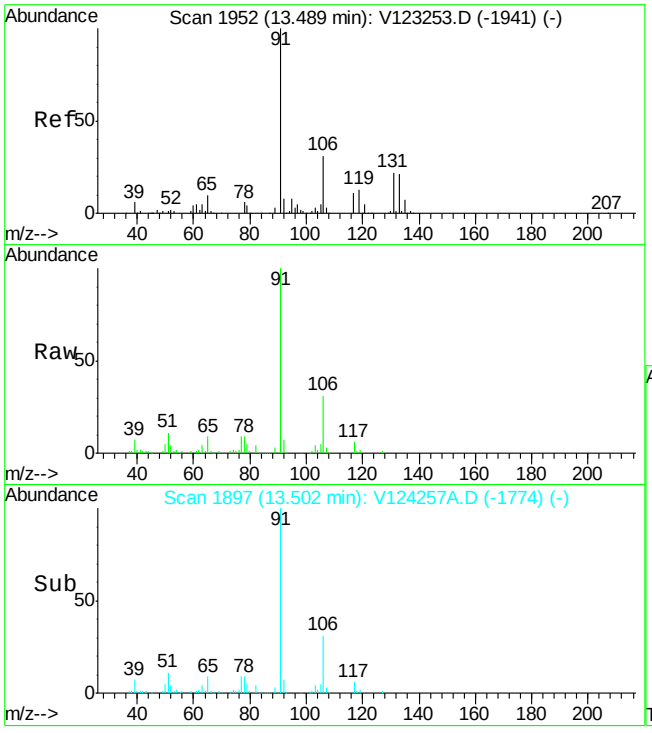


#38
methyl tert butyl ether
Concen: 4.52 ug/L
RT: 7.17 min Scan# 687
Delta R.T. 0.02 min
Lab File: V124257A.D
Acq: 13 Feb 2012 5:34 pm

Tgt Ion: 73 Resp: 36587

Ion	Ratio	Lower	Upper
73	100		
57	21.8	0.0	53.9
43	30.1	0.0	53.7

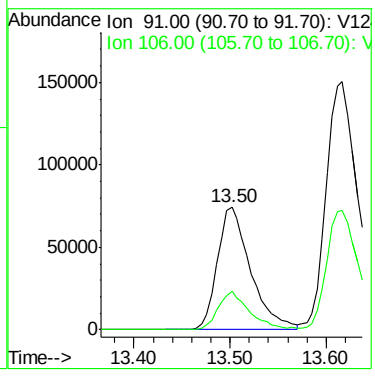


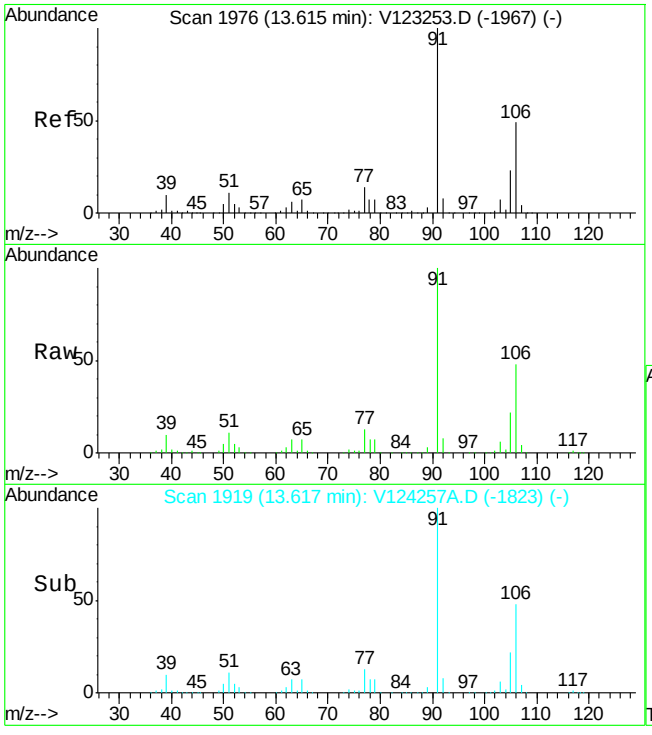


#102
ethylbenzene
Concen: 11.30 ug/L
RT: 13.50 min Scan# 1897
Delta R.T. 0.01 min
Lab File: V124257A.D
Acq: 13 Feb 2012 5:34 pm

Tgt Ion: 91 Resp: 180185

Ion	Ratio	Lower	Upper
91	100		
106	31.1	0.8	60.8

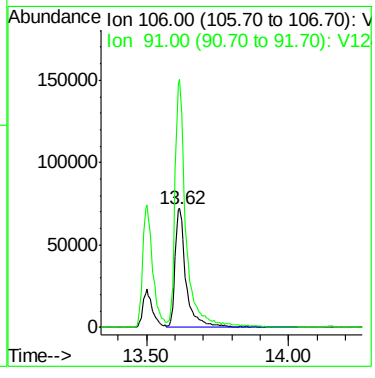


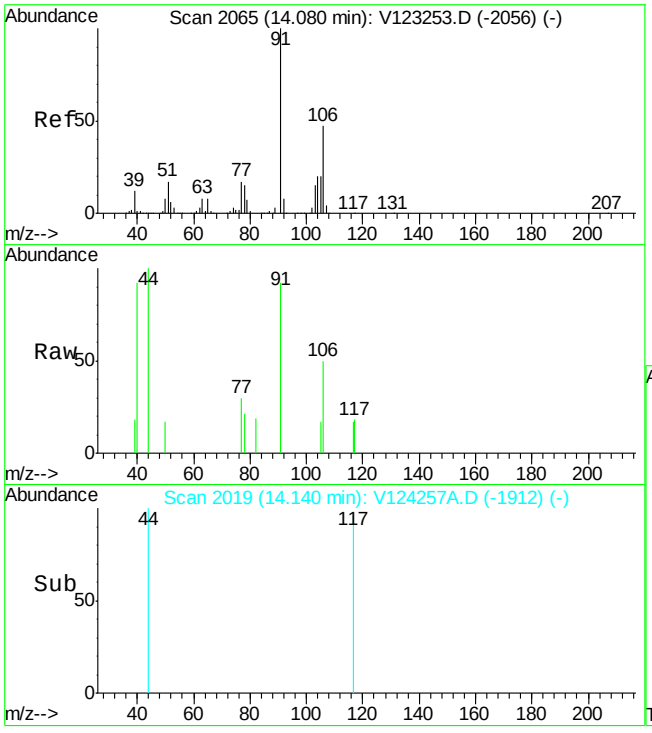


#103
m,p-xylene
Concen: 32.13 ug/L
RT: 13.62 min Scan# 1919
Delta R.T. 0.00 min
Lab File: V124257A.D
Acq: 13 Feb 2012 5:34 pm

Tgt Ion:106 Resp: 199453

Ion	Ratio	Lower	Upper
106	100		
91	208.1	142.9	265.3

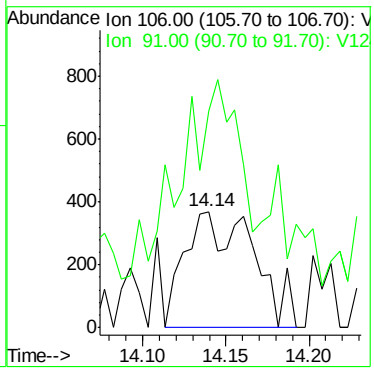




#104
o-xylene
Concen: 0.17 ug/L
RT: 14.14 min Scan# 2019
Delta R.T. 0.06 min
Lab File: V124257A.D
Acq: 13 Feb 2012 5:34 pm

Tgt Ion:106 Resp: 1050

Ion	Ratio	Lower	Upper
106	100		
91	97.3	149.9	278.5#



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123640.D
Acq On : 11 Feb 2012 11:57 am
Operator : tamikag
Sample : MB
Misc : MS25397,VX5283,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 13 12:10:05 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.293	65	68244	500.00	ug/L	0.02
5) pentafluorobenzene	9.986	168	180187	50.00	ug/L	0.02
62) 1,4-difluorobenzene	11.148	114	266074	50.00	ug/L	0.02
93) chlorobenzene-d5	15.368	117	254039	50.00	ug/L	0.02
108) 1,4-dichlorobenzene-d4	18.161	152	127279	50.00	ug/L	0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.033	113	72955	53.83	ug/L	0.02
Spiked Amount 50.000	Range 67 - 131		Recovery = 107.66%			
55) 1,2-dichloroethane-d4 (s)	10.562	65	70652	47.54	ug/L	0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 95.08%			
85) toluene-d8 (s)	13.339	98	291027	58.36	ug/L	0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 116.72%			
110) 4-bromofluorobenzene (s)	16.869	95	107811	49.05	ug/L	0.02
Spiked Amount 50.000	Range 53 - 142		Recovery = 98.10%			

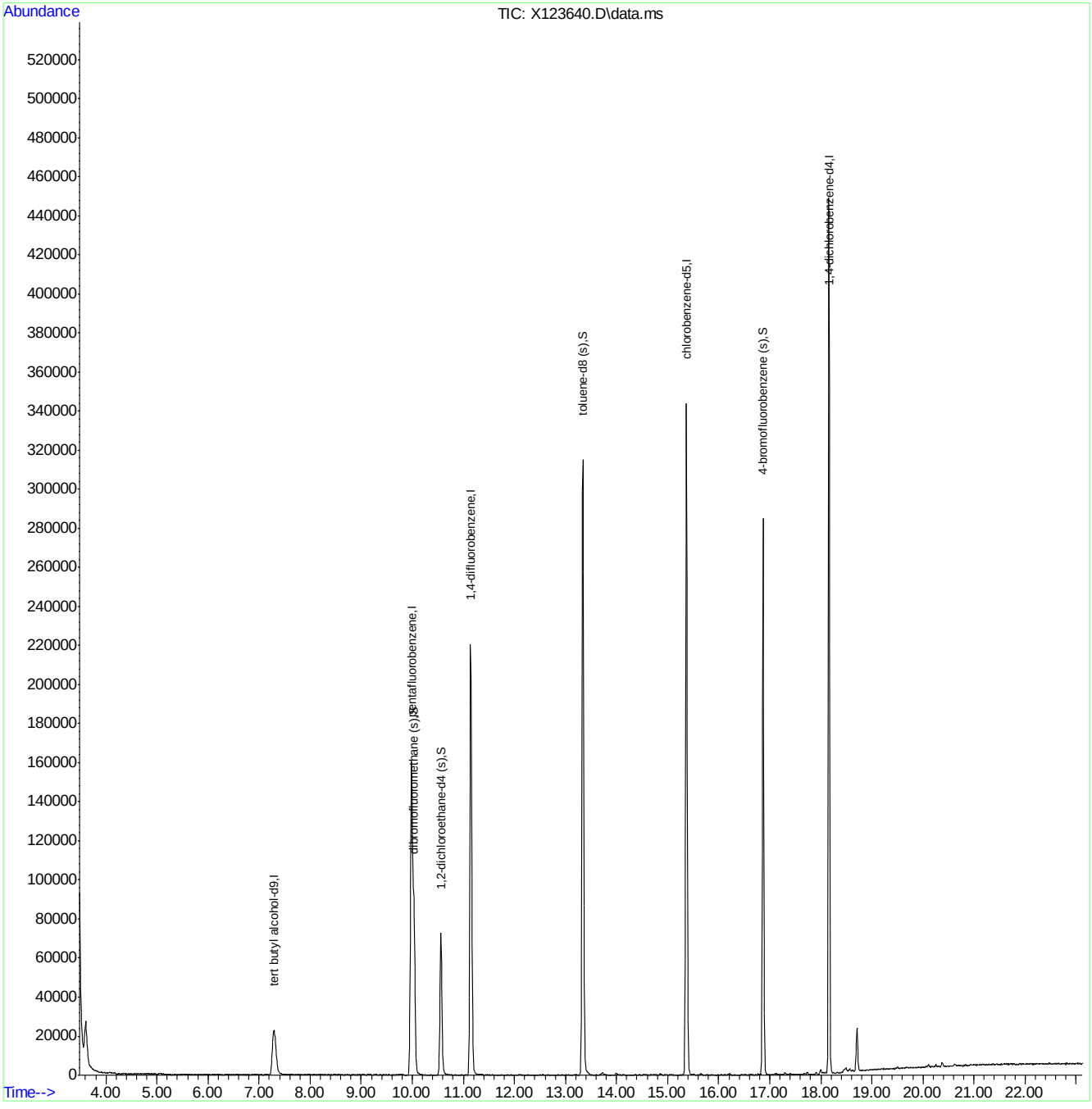
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123640.D
Acq On : 11 Feb 2012 11:57 am
Operator : tamikag
Sample : MB
Misc : MS25397,VX5283,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 13 12:10:05 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration



MX5242.M Mon Feb 13 12:22:59 2012 ACCNJ

ACCUTEST LABORATORIES
JA98695

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124247.D
Acq On : 13 Feb 2012 11:44 am
Operator : conorl
Sample : MB
Misc : MS25499,VV5348,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 13 13:51:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.80	65	79082	500.00	ug/L	0.01
4) pentafluorobenzene	9.03	168	329479	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	505736	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	527087	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.01	152	260876	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.07	113	135187	50.69	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 101.38%			
58) 1,2-dichloroethane-d4 (s)	9.51	65	151580	49.42	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 98.84%			
85) toluene-d8 (s)	11.71	98	569611	55.50	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 111.00%			
109) 4-bromofluorobenzene (s)	14.70	95	225258	49.65	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 99.30%			

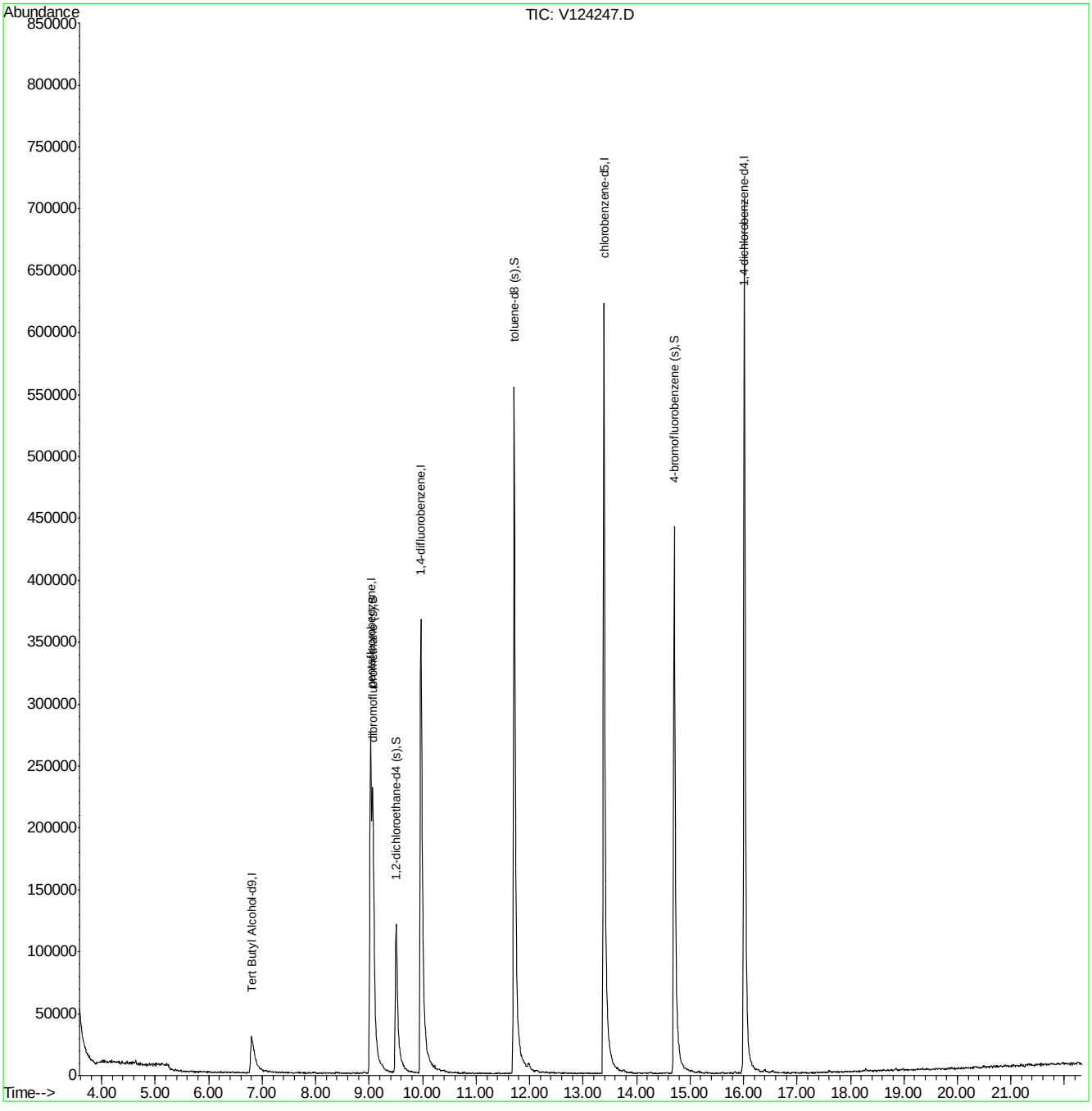
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124247.D
Acq On : 13 Feb 2012 11:44 am
Operator : conorl
Sample : MB
Misc : MS25499,VV5348,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 13 13:51:51 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123640A.D
Acq On : 11 Feb 2012 12:33 pm
Operator : tamikag
Sample : BS
Misc : MS25397,VX5283,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 13 12:11:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.288	65	76561	500.00	ug/L	0.02
5) pentafluorobenzene	9.981	168	169053	50.00	ug/L	0.02
62) 1,4-difluorobenzene	11.142	114	253772	50.00	ug/L	0.02
93) chlorobenzene-d5	15.368	117	250051	50.00	ug/L	0.02
108) 1,4-dichlorobenzene-d4	18.156	152	129648	50.00	ug/L	0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.028	113	70426	55.38	ug/L	0.02
Spiked Amount 50.000	Range 67 - 131		Recovery = 110.76%			
55) 1,2-dichloroethane-d4 (s)	10.556	65	69046	49.52	ug/L	0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 99.04%			
85) toluene-d8 (s)	13.334	98	272279	57.25	ug/L	0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 114.50%			
110) 4-bromofluorobenzene (s)	16.869	95	105599	47.17	ug/L	0.02
Spiked Amount 50.000	Range 53 - 142		Recovery = 94.34%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.413	59	47807	231.86	ug/L	96
4) 1,4-dioxane	12.089	88	20248	1191.93	ug/L #	93
11) chlorodifluoromethane	3.762	51	54348	41.18	ug/L	99
12) dichlorodifluoromethane	3.752	85	69894	40.43	ug/L	98
15) chloromethane	4.081	50	98552	43.92	ug/L	98
16) vinyl chloride	4.338	62	86464	51.49	ug/L	99
18) bromomethane	4.991	94	57684	65.65	ug/L	97
19) chloroethane	5.169	64	46075	49.78	ug/L	98
21) trichlorofluoromethane	5.661	101	100940	53.01	ug/L	100
22) pentane	5.724	43	82114	37.99	ug/L	99
23) ethyl ether	6.074	74	47433	59.96	ug/L	89
27) acrolein	6.346	56	126466	446.35	ug/L #	99
28) 1,1-dichloroethene	6.524	96	67677	57.57	ug/L	89
29) acetone	6.581	58	6590	58.40	ug/L #	82
30) allyl chloride	7.104	76	48159	57.22	ug/L #	85
31) acetonitrile	7.073	40	60159	499.23	ug/L	91
32) iodomethane	6.827	142	138428	59.62	ug/L	97
33) iso-butyl alcohol	10.363	43	34828	524.91	ug/L	98
34) carbon disulfide	6.958	76	242624	53.37	ug/L	98
35) methylene chloride	7.324	84	85055	51.42	ug/L	94
36) methyl acetate	7.089	43	51894	46.75	ug/L	94
37) methyl tert butyl ether	7.690	73	437735	107.52	ug/L	97
38) trans-1,2-dichloroethene	7.743	96	75494	55.77	ug/L	94
39) di-isopropyl ether	8.391	45	254123	43.98	ug/L	85
40) 2-butanone	9.275	72	8945	63.33	ug/L	64
41) 1,1-dichloroethane	8.407	63	142262	54.34	ug/L	99
42) chloroprene	8.532	53	101193	48.06	ug/L	96
43) acrylonitrile	7.690	53	134735	295.40	ug/L	99
44) vinyl acetate	8.396	86	12807	63.09	ug/L	74
45) ethyl tert-butyl ether	8.956	59	250944	50.22	ug/L	98
46) ethyl acetate	9.306	70	8659	58.41	ug/L	79
47) 2,2-dichloropropane	9.306	77	97885	52.65	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123640A.D
Acq On : 11 Feb 2012 12:33 pm
Operator : tamikag
Sample : BS
Misc : MS25397,VX5283,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 13 12:11:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
48)	cis-1,2-dichloroethene	9.312	96	87890	56.33 ug/L	91
49)	propionitrile	9.401	54	107151	622.21 ug/L	95
50)	tert-Butyl Formate	9.814	59	57040	42.11 ug/L #	98
51)	bromochloromethane	9.699	128	43634	61.38 ug/L	89
52)	tetrahydrofuran	9.741	42	26399	52.24 ug/L	93
53)	chloroform	9.777	83	139484	54.02 ug/L	99
56)	freon 113	6.503	151	49888	59.82 ug/L	98
57)	methacrylonitrile	9.625	41	43765	52.38 ug/L	96
58)	1,1,1-trichloroethane	10.080	97	107569	55.23 ug/L	99
59)	cyclohexane	10.169	84	99053	56.41 ug/L	81
60)	tert amyl alcohol	10.515	59	42326	300.64 ug/L	95
61)	iso-octane	10.656	57	206397	41.09 ug/L	98
64)	epichlorohydrin	12.680	57	21536	197.87 ug/L	98
65)	n-butyl alcohol	11.341	56	120482	2700.27 ug/L	94
66)	carbon tetrachloride	10.337	117	97787	59.76 ug/L	97
67)	1,1-dichloropropene	10.305	75	101435	55.62 ug/L	96
68)	hexane	8.088	57	73998	41.69 ug/L	97
69)	benzene	10.640	78	309846	54.34 ug/L	100
70)	tert-amyl methyl ether	10.703	73	223981	51.06 ug/L	98
71)	heptane	10.886	57	44902	40.44 ug/L	96
72)	isopropyl acetate	10.583	43	115525	42.66 ug/L	87
73)	1,2-dichloroethane	10.672	62	94296	51.13 ug/L	99
74)	trichloroethene	11.582	130	84019	61.07 ug/L	99
76)	tert amyl ethyl ether	11.817	87	114882	53.74 ug/L	94
78)	2-chloroethyl vinyl ether	12.680	63	108841	218.22 ug/L	98
79)	methyl methacrylate	11.969	69	53800	59.04 ug/L	89
80)	1,2-dichloropropane	11.932	63	85906	51.94 ug/L	98
81)	dibromomethane	12.141	93	51689	58.86 ug/L	95
82)	methylcyclohexane	11.859	83	111342	52.14 ug/L	94
83)	bromodichloromethane	12.335	83	111281	55.27 ug/L	99
84)	cis-1,3-dichloropropene	12.952	75	139613	53.90 ug/L	98
86)	4-methyl-2-pentanone	13.098	58	33099	60.31 ug/L	92
87)	toluene	13.433	92	199174	56.26 ug/L	99
88)	3-methyl-1-butanol	13.156	55	76684	1113.03 ug/L	96
89)	trans-1,3-dichloropropene	13.726	75	126881	56.04 ug/L	98
90)	ethyl methacrylate	13.742	69	104815	55.95 ug/L	97
91)	1,1,2-trichloroethane	14.008	83	63893	56.83 ug/L	97
92)	2-hexanone	14.265	58	30739	59.55 ug/L	91
94)	3,3-Dimethyl-1-butanol	14.511	57	78849	508.30 ug/L	98
95)	tetrachloroethene	14.223	164	71243	53.98 ug/L	97
96)	1,3-dichloropropane	14.249	76	119238	52.92 ug/L	95
97)	butyl acetate	14.380	56	54144	49.89 ug/L	95
98)	dibromochloromethane	14.599	129	92184	56.46 ug/L	98
99)	1,2-dibromoethane	14.782	107	77703	56.80 ug/L	100
101)	chlorobenzene	15.405	112	232042	54.69 ug/L	96
102)	1,1,1,2-tetrachloroethane	15.494	131	83649	54.93 ug/L	99
103)	ethylbenzene	15.494	91	372905	52.59 ug/L	99
104)	m,p-xylene	15.635	106	291562	105.78 ug/L	96
105)	o-xylene	16.184	106	152436	54.50 ug/L	96
106)	styrene	16.200	104	252126	53.34 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123640A.D
Acq On : 11 Feb 2012 12:33 pm
Operator : tamikag
Sample : BS
Misc : MS25397,VX5283,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 13 12:11:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

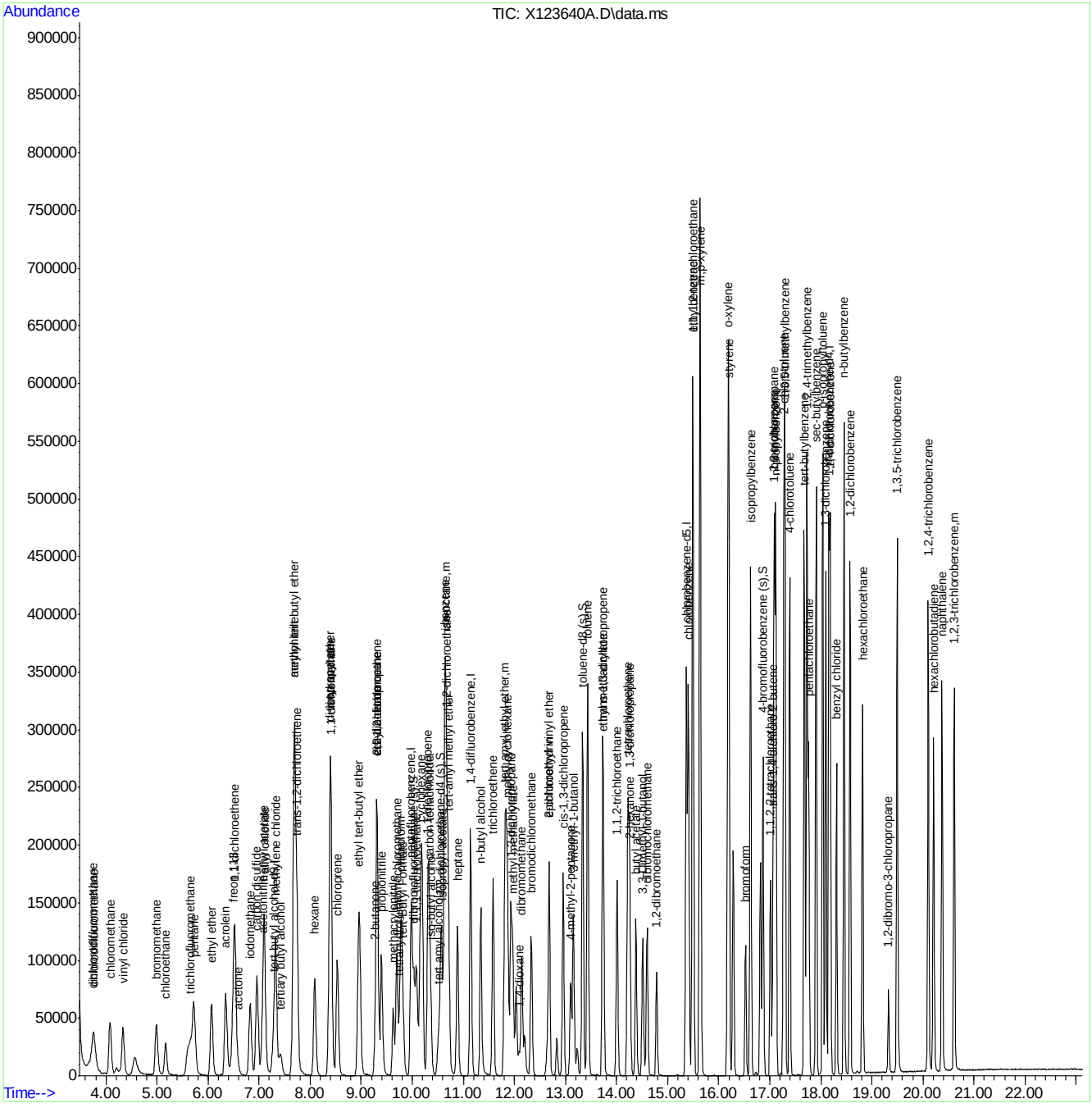
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
107) bromoform	16.529	173	66919	62.51 ug/L	98
109) isopropylbenzene	16.624	105	370578	53.32 ug/L	99
111) bromobenzene	17.084	156	105641	54.83 ug/L	96
112) 1,1,2,2-tetrachloroethane	17.016	83	102587	54.18 ug/L	99
113) trans-1,4-dichloro-2-b...	17.063	53	24477	51.20 ug/L	93
114) 1,2,3-trichloropropane	17.089	110	25213	56.06 ug/L #	87
115) n-propylbenzene	17.120	91	433853	53.76 ug/L	98
117) 2-chlorotoluene	17.277	126	96762	54.99 ug/L	92
118) 4-chlorotoluene	17.392	91	280569	51.12 ug/L	97
119) 1,3,5-trimethylbenzene	17.298	105	311897	53.05 ug/L	99
120) tert-butylbenzene	17.675	119	274985	54.74 ug/L	99
121) pentachloroethane	17.764	167	68019	57.74 ug/L	99
122) 1,2,4-trimethylbenzene	17.727	105	327956	51.75 ug/L	100
124) sec-butylbenzene	17.910	105	408595	54.03 ug/L	99
125) 1,3-dichlorobenzene	18.098	146	196892	53.48 ug/L	99
126) p-isopropyltoluene	18.036	119	355174	56.93 ug/L	99
127) 1,4-dichlorobenzene	18.182	146	196165	52.66 ug/L	99
128) 1,2-dichlorobenzene	18.574	146	194113	54.48 ug/L	98
129) benzyl chloride	18.308	91	196817	53.70 ug/L	99
131) n-butylbenzene	18.454	92	183555	52.71 ug/L	99
133) 1,2-dibromo-3-chloropr...	19.322	75	18750	58.49 ug/L	95
134) 1,3,5-trichlorobenzene	19.495	180	166459	58.30 ug/L	99
135) hexachlorobutadiene	20.211	225	76435	54.32 ug/L	98
136) naphthalene	20.374	128	294002	57.67 ug/L	99
137) 1,2,4-trichlorobenzene	20.102	180	149444	62.25 ug/L	99
138) 1,2,3-trichlorobenzene	20.614	180	130418	61.43 ug/L	100
139) hexachloroethane	18.820	201	67890	59.86 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123640A.D
Acq On : 11 Feb 2012 12:33 pm
Operator : tamikag
Sample : BS
Misc : MS25397,VX5283,5.0,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Feb 13 12:11:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124248.D
Acq On : 13 Feb 2012 12:19 pm
Operator : conorl
Sample : BS
Misc : MS25499,VV5348,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 13:52:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.80	65	113680	500.00	ug/L	0.01
4) pentafluorobenzene	9.02	168	344679	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	513390	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	515376	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.01	152	293512	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.07	113	138996	49.82	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 99.64%			
58) 1,2-dichloroethane-d4 (s)	9.50	65	165094	51.45	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 102.90%			
85) toluene-d8 (s)	11.71	98	587797	56.41	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 112.82%			
109) 4-bromofluorobenzene (s)	14.70	95	239882	54.07	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 108.14%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	6.92	59	70856	263.75	ug/L	100
3) 1,4-dioxane	10.72	88	27825	1424.53	ug/L #	96
13) chlorodifluoromethane	3.75	51	201446	55.38	ug/L	99
14) dichlorodifluoromethane	3.75	85	224412	43.16	ug/L	99
15) chloromethane	4.02	50	284142	52.95	ug/L	97
16) vinyl chloride	4.24	62	265344	56.06	ug/L	99
17) bromomethane	4.82	96	148746	54.82	ug/L	98
18) chloroethane	4.97	64	144517	56.99	ug/L	98
19) trichlorofluoromethane	5.36	101	288816	53.19	ug/L	100
21) ethyl ether	5.76	74	73677	58.62	ug/L	94
22) Acetaldehyde	4.44	44	153567	563.51	ug/L	97
27) acrolein	5.99	56	260679	613.57	ug/L	99
28) freon 113	6.11	151	146885	64.00	ug/L	97
29) 1,1-dichloroethene	6.15	96	146432	56.41	ug/L	96
30) acetone	6.26	58	8831	47.13	ug/L #	94
31) iso-butyl alcohol	9.58	74	49197	562.76	ug/L #	90
32) allyl chloride	6.65	78	29043	58.15	ug/L	98
33) acetonitrile	6.63	40	107385	526.46	ug/L	98
34) iodomethane	6.41	142	271566	54.10	ug/L	99
35) carbon disulfide	6.54	76	517110	54.93	ug/L	99
36) methylene chloride	6.82	84	167088	52.76	ug/L	99
37) methyl acetate	6.69	43	91816	63.57	ug/L	91
38) methyl tert butyl ether	7.15	73	826812	106.23	ug/L	98
39) trans-1,2-dichloroethene	7.20	96	162806	57.68	ug/L	97
40) di-isopropyl ether	7.73	45	598749	56.43	ug/L	98
41) 2-butanone	8.53	72	11395	53.35	ug/L	94
42) 1,1-dichloroethane	7.75	63	321637	60.61	ug/L	97
43) chloroprene	7.87	53	264040	57.47	ug/L	99
44) acrylonitrile	7.17	53	184165	273.75	ug/L	99
45) vinyl acetate	7.80	86	13426	41.95	ug/L	43
46) ethyl tert-butyl ether	8.20	59	519983	56.18	ug/L	98
47) ethyl acetate	8.52	45	13403	41.73	ug/L #	68
48) 2,2-dichloropropane	8.50	77	276339	54.67	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124248.D
Acq On : 13 Feb 2012 12:19 pm
Operator : conorl
Sample : BS
Misc : MS25499,VV5348,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 13:52:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) cis-1,2-dichloroethene	8.50	96	168514	55.44	ug/L		95
50) propionitrile	8.57	54	144008	581.68	ug/L		97
51) methyl acrylate	8.67	85	10426	44.83	ug/L	#	59
52) methacrylonitrile	8.78	67	37057	53.33	ug/L		95
53) bromochloromethane	8.81	128	69811	52.92	ug/L		97
54) tetrahydrofuran	8.89	42	39664	54.50	ug/L		95
55) chloroform	8.86	83	282093	55.96	ug/L		99
56) tert-Butyl Formate	8.90	59	113537	48.31	ug/L	#	96
59) 1,1,1-trichloroethane	9.12	97	261241	57.12	ug/L		97
60) Cyclohexane	9.20	84	234198	54.94	ug/L		99
61) Tert Amyl Alcohol	9.46	55	23128	304.03	ug/L	#	81
63) methylcyclohexane	10.55	83	295941	62.23	ug/L		95
64) epichlorohydrin	11.31	57	50798	256.92	ug/L		98
65) n-butyl alcohol	10.13	56	153969	2559.03	ug/L		96
66) carbon tetrachloride	9.33	117	230509	56.69	ug/L		97
67) 1,1-dichloropropene	9.32	75	224002	56.34	ug/L		96
68) hexane	7.50	57	209082	58.12	ug/L		96
69) 2,2,4-Trimethylpentane	9.58	57	672076	61.89	ug/L		100
70) benzene	9.57	78	635979	56.70	ug/L		99
71) tert-amyl methyl ether	9.61	73	448013	54.61	ug/L		96
72) heptane	9.77	57	130531	63.09	ug/L		99
73) isopropyl acetate	9.51	61	36791	49.02	ug/L	#	96
74) 1,2-dichloroethane	9.58	62	187184	54.15	ug/L		92
75) trichloroethene	10.33	95	160464	54.34	ug/L		97
76) Ethyl Acrylate	10.33	99	16175	37.86	ug/L	#	99
77) tert-Amyl Ethyl Ether	10.49	87	221816	54.02	ug/L		97
78) 2-chloroethyl vinyl ether	11.17	63	174320	613.02	ug/L		98
79) methyl methacrylate	10.63	100	25593	56.89	ug/L		94
80) 1,2-dichloropropane	10.58	63	165853	58.57	ug/L		98
81) dibromomethane	10.76	93	79193	54.58	ug/L		90
82) bromodichloromethane	10.89	83	205310	55.63	ug/L		95
83) 2-nitropropane	11.12	46	1966	70.09	ug/L	#	47
84) cis-1,3-dichloropropene	11.39	75	237999	53.62	ug/L		98
86) 4-methyl-2-pentanone	11.50	58	41484	52.68	ug/L		98
87) toluene	11.79	92	386667	57.16	ug/L		99
88) isoamyl alcohol	11.54	55	115883	1173.59	ug/L		96
89) trans-1,3-dichloropropene	12.01	75	210268	54.88	ug/L		91
90) ethyl methacrylate	12.02	69	141005	52.63	ug/L		98
91) 1,1,2-trichloroethane	12.24	83	96981	55.44	ug/L		94
92) 2-hexanone	12.48	58	46220	62.75	ug/L		96
94) tetrachloroethene	12.44	166	182406	52.08	ug/L		98
95) 1,3-dichloropropane	12.44	76	193870	49.55	ug/L		100
96) butyl acetate	12.54	73	24533	43.20	ug/L		89
97) 3,3-Dimethyl-1-Butanol	12.64	69	84194	445.03	ug/L		97
98) dibromochloromethane	12.73	129	138230	47.62	ug/L		99
99) 1,2-dibromoethane	12.90	107	105459	46.25	ug/L		100
100) chlorobenzene	13.42	112	429310	50.36	ug/L		96
101) 1,1,1,2-tetrachloroethane	13.49	131	160337	50.49	ug/L		98
102) ethylbenzene	13.49	91	755969	52.32	ug/L		97
103) m,p-xylene	13.61	106	579687	103.09	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124248.D
Acq On : 13 Feb 2012 12:19 pm
Operator : conorl
Sample : BS
Misc : MS25499,VV5348,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 13:52:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

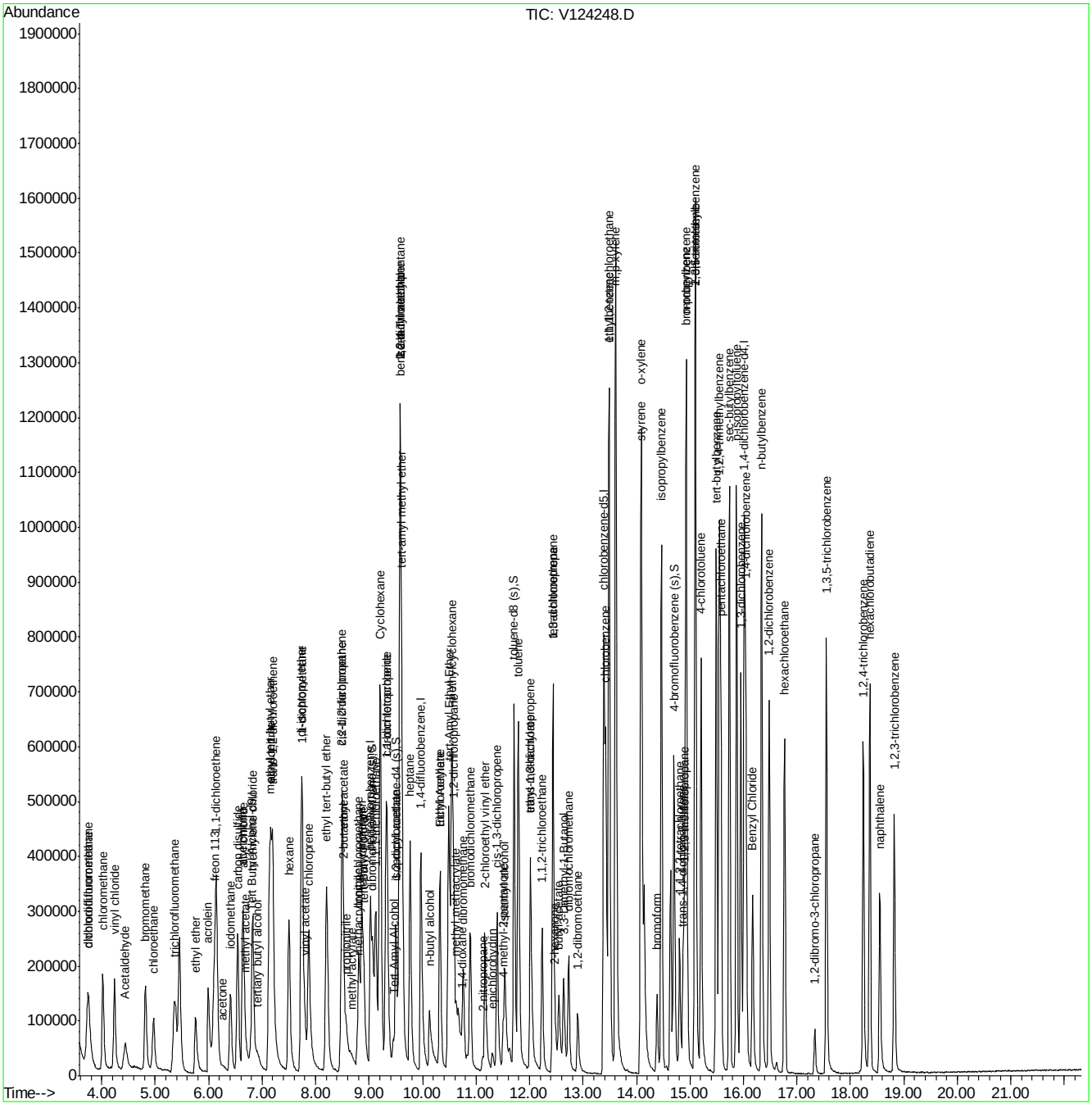
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
104) o-xylene	14.08	106	285979	50.54 ug/L	97
105) styrene	14.10	104	457425	48.43 ug/L	98
107) bromoform	14.39	173	94414	47.73 ug/L	95
111) isopropylbenzene	14.46	105	779254	48.73 ug/L	99
112) 1,1,2,2-tetrachloroethane	14.80	83	150211	44.83 ug/L	97
113) trans-1,4-dichloro-2-buten	14.86	53	37992	43.19 ug/L	82
114) 1,2,3-trichloropropane	14.89	110	35933	46.89 ug/L #	89
115) bromobenzene	14.92	156	193562	48.16 ug/L	98
116) n-propylbenzene	14.93	91	950152	52.04 ug/L	99
118) 2-chlorotoluene	15.10	126	188108	46.82 ug/L	92
119) 4-chlorotoluene	15.21	91	564797	47.79 ug/L	98
120) 1,3,5-trimethylbenzene	15.10	105	660086	47.03 ug/L	98
121) tert-butylbenzene	15.49	119	562325	47.47 ug/L	99
122) pentachloroethane	15.58	167	132887	48.53 ug/L	98
123) 1,2,4-trimethylbenzene	15.55	105	661710	48.55 ug/L	97
124) sec-butylbenzene	15.73	105	908642	49.60 ug/L	98
125) p-isopropyltoluene	15.87	119	763534	51.30 ug/L	99
126) 1,3-dichlorobenzene	15.95	146	365108	50.47 ug/L	99
127) 1,4-dichlorobenzene	16.04	146	370571	49.55 ug/L	98
128) 1,2-dichlorobenzene	16.48	146	351927	50.19 ug/L	99
129) Benzyl Chloride	16.17	91	308514	48.75 ug/L	96
132) n-butylbenzene	16.34	92	393346	46.54 ug/L	98
133) hexachloroethane	16.77	201	141537	48.26 ug/L	98
135) 1,2-dibromo-3-chloropropan	17.33	75	26536	43.55 ug/L	87
136) 1,3,5-trichlorobenzene	17.55	180	329136	48.04 ug/L	100
137) 1,2,4-trichlorobenzene	18.24	180	255802	48.33 ug/L	96
138) hexachlorobutadiene	18.37	225	193596	49.32 ug/L	98
139) naphthalene	18.55	128	355503	43.08 ug/L	99
140) 1,2,3-trichlorobenzene	18.82	180	209019	47.63 ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124248.D
Acq On : 13 Feb 2012 12:19 pm
Operator : conorl
Sample : BS
Misc : MS25499,VV5348,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Feb 13 13:52:31 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123649.D
Acq On : 11 Feb 2012 5:09 pm
Operator : tamikag
Sample : JA98960-6MS
Misc : MS25469,VX5283,5.0,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 13 12:16:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.298	65	66598	500.00	ug/L	0.03
5) pentafluorobenzene	9.992	168	169590	50.00	ug/L	0.03
62) 1,4-difluorobenzene	11.153	114	257124	50.00	ug/L	0.03
93) chlorobenzene-d5	15.373	117	248790	50.00	ug/L	0.03
108) 1,4-dichlorobenzene-d4	18.161	152	120421	50.00	ug/L	0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.039	113	70642	55.38	ug/L	0.03
Spiked Amount 50.000 Range 67 - 131 Recovery = 110.76%						
55) 1,2-dichloroethane-d4 (s)	10.562	65	68252	48.79	ug/L	0.02
Spiked Amount 50.000 Range 66 - 130 Recovery = 97.58%						
85) toluene-d8 (s)	13.344	98	278699	57.84	ug/L	0.03
Spiked Amount 50.000 Range 76 - 125 Recovery = 115.68%						
110) 4-bromofluorobenzene (s)	16.875	95	100604	48.38	ug/L	0.03
Spiked Amount 50.000 Range 53 - 142 Recovery = 96.76%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.423	59	37794	210.72	ug/L	97
4) 1,4-dioxane	12.105	88	17842	1207.42	ug/L #	91
11) chlorodifluoromethane	3.778	51	46287	34.96	ug/L	96
12) dichlorodifluoromethane	3.762	85	87969	50.72	ug/L	97
15) chloromethane	4.097	50	90806	40.34	ug/L	99
16) vinyl chloride	4.353	62	81311	48.26	ug/L	99
18) bromomethane	5.002	94	51728	55.84	ug/L	98
19) chloroethane	5.180	64	46502	50.08	ug/L	98
21) trichlorofluoromethane	5.671	101	100859	52.80	ug/L	98
22) pentane	5.739	43	79002	36.44	ug/L	98
23) ethyl ether	6.085	74	33299	41.96	ug/L	90
27) acrolein	6.362	56	78502	276.19	ug/L #	100
28) 1,1-dichloroethene	6.540	96	46047	39.05	ug/L	90
29) acetone	6.592	58	12963	114.51	ug/L	92
30) allyl chloride	7.115	76	32963	39.04	ug/L	90
31) acetonitrile	7.084	40	45190	373.83	ug/L #	79
32) iodomethane	6.843	142	93096	39.97	ug/L	98
33) iso-butyl alcohol	10.373	43	29252	439.48	ug/L	97
34) carbon disulfide	6.974	76	156928	34.41	ug/L	99
35) methylene chloride	7.335	84	65607	39.54	ug/L	95
36) methyl acetate	7.099	43	72148	64.79	ug/L	95
37) methyl tert butyl ether	7.706	73	169100	41.40	ug/L	97
38) trans-1,2-dichloroethene	7.758	96	54438	40.09	ug/L	92
39) di-isopropyl ether	8.396	45	197810	34.13	ug/L #	73
40) 2-butanone	9.285	72	10348	73.03	ug/L	46
41) 1,1-dichloroethane	8.417	63	101259	38.55	ug/L	98
42) chloroprene	8.543	53	76482	36.21	ug/L	96
43) acrylonitrile	7.706	53	104276	227.90	ug/L	99
44) vinyl acetate	8.417	86	4836	23.75	ug/L	43
45) ethyl tert-butyl ether	8.972	59	192732	38.45	ug/L	97
46) ethyl acetate	9.317	70	5869	39.46	ug/L	80
47) 2,2-dichloropropane	9.322	77	73133	39.21	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123649.D
Acq On : 11 Feb 2012 5:09 pm
Operator : tamikag
Sample : JA98960-6MS
Misc : MS25469,VX5283,5.0,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 13 12:16:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.322	96	64736	41.36	ug/L		96
49)	propionitrile	9.411	54	83569	483.73	ug/L		92
50)	tert-Butyl Formate	9.824	59	39661	29.19	ug/L	#	97
51)	bromochloromethane	9.709	128	33710	47.27	ug/L	#	87
52)	tetrahydrofuran	9.751	42	19426	38.32	ug/L		92
53)	chloroform	9.788	83	102701	39.65	ug/L		99
56)	freon 113	6.508	151	37933	45.34	ug/L		97
57)	methacrylonitrile	9.636	41	33368	39.81	ug/L		98
58)	1,1,1-trichloroethane	10.091	97	76138	38.97	ug/L		98
59)	cyclohexane	10.175	84	68837	39.08	ug/L		96
61)	iso-octane	10.661	57	167892	33.32	ug/L		97
64)	epichlorohydrin	12.690	57	15709	142.45	ug/L		98
65)	n-butyl alcohol	11.351	56	97438	2155.33	ug/L		96
66)	carbon tetrachloride	10.347	117	68195	41.13	ug/L		94
67)	1,1-dichloropropene	10.321	75	71074	38.46	ug/L		95
68)	hexane	8.103	57	64365	35.79	ug/L		97
69)	benzene	10.651	78	225016	38.95	ug/L		100
70)	tert-amyl methyl ether	10.713	73	173405	39.01	ug/L		98
71)	heptane	10.896	57	36436	32.38	ug/L		98
72)	isopropyl acetate	10.593	43	85832	31.28	ug/L		92
73)	1,2-dichloroethane	10.682	62	72445	38.77	ug/L		98
74)	trichloroethene	11.592	130	59202	42.47	ug/L		99
78)	2-chloroethyl vinyl ether	12.690	63	81401	161.08	ug/L		98
79)	methyl methacrylate	11.984	69	43920	47.57	ug/L		87
80)	1,2-dichloropropane	11.942	63	64799	38.67	ug/L		97
81)	dibromomethane	12.157	93	38607	43.39	ug/L		93
82)	methylcyclohexane	11.869	83	84042	38.85	ug/L		90
83)	bromodichloromethane	12.340	83	83320	40.85	ug/L		100
84)	cis-1,3-dichloropropene	12.962	75	109583	41.76	ug/L		96
86)	4-methyl-2-pentanone	13.109	58	25709	46.23	ug/L		95
87)	toluene	13.444	92	159429	44.45	ug/L		100
88)	3-methyl-1-butanol	13.161	55	60324	864.16	ug/L		92
89)	trans-1,3-dichloropropene	13.736	75	98554	42.96	ug/L		97
90)	ethyl methacrylate	13.752	69	71946	37.91	ug/L		95
91)	1,1,2-trichloroethane	14.019	83	49570	43.51	ug/L		99
92)	2-hexanone	14.270	58	28000	53.53	ug/L		92
94)	3,3-Dimethyl-1-butanol	14.516	57	61575	398.95	ug/L		97
95)	tetrachloroethene	14.228	164	50616	38.55	ug/L		95
96)	1,3-dichloropropane	14.259	76	93388	41.66	ug/L		97
97)	butyl acetate	14.390	56	31455	29.13	ug/L		97
98)	dibromochloromethane	14.605	129	70573	43.45	ug/L		98
99)	1,2-dibromoethane	14.793	107	60178	44.21	ug/L		100
101)	chlorobenzene	15.415	112	169814	40.22	ug/L		94
102)	1,1,1,2-tetrachloroethane	15.504	131	61752	40.76	ug/L		98
103)	ethylbenzene	15.499	91	263673	37.38	ug/L		99
104)	m,p-xylene	15.645	106	206007	75.12	ug/L		97
105)	o-xylene	16.189	106	107772	38.73	ug/L		96
106)	styrene	16.205	104	181307	38.55	ug/L		98
107)	bromoform	16.535	173	48975	45.98	ug/L		97
109)	isopropylbenzene	16.629	105	257845	39.94	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123649.D
Acq On : 11 Feb 2012 5:09 pm
Operator : tamikag
Sample : JA98960-6MS
Misc : MS25469,VX5283,5.0,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 13 12:16:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

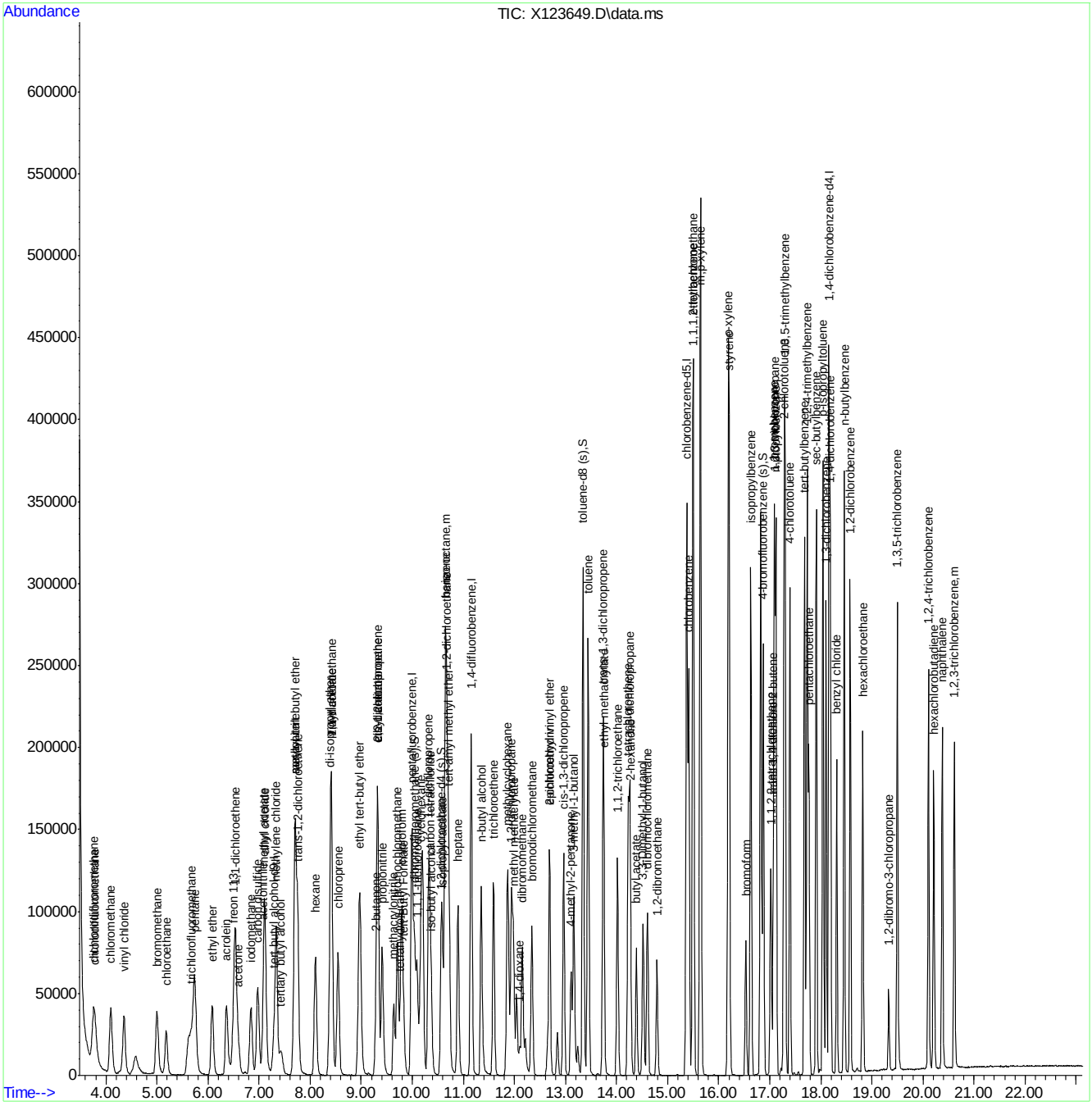
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
111) bromobenzene	17.089	156	73819	41.25 ug/L	95
112) 1,1,2,2-tetrachloroethane	17.021	83	77586	44.12 ug/L	98
113) trans-1,4-dichloro-2-b...	17.068	53	16411	36.96 ug/L	90
114) 1,2,3-trichloropropane	17.094	110	19073	45.66 ug/L #	73
115) n-propylbenzene	17.120	91	290816	38.79 ug/L	99
117) 2-chlorotoluene	17.282	126	64889	39.70 ug/L	97
118) 4-chlorotoluene	17.392	91	191511	37.57 ug/L	98
119) 1,3,5-trimethylbenzene	17.298	105	211943	38.81 ug/L	98
120) tert-butylbenzene	17.680	119	186806	40.04 ug/L	99
121) pentachloroethane	17.769	167	46681	42.66 ug/L	98
122) 1,2,4-trimethylbenzene	17.732	105	219492	37.29 ug/L	99
124) sec-butylbenzene	17.910	105	275773	39.26 ug/L	99
125) 1,3-dichlorobenzene	18.104	146	131025	38.32 ug/L	99
126) p-isopropyltoluene	18.041	119	236869	40.87 ug/L	99
127) 1,4-dichlorobenzene	18.187	146	131369	37.96 ug/L	99
128) 1,2-dichlorobenzene	18.574	146	128797	38.92 ug/L	99
129) benzyl chloride	18.308	91	145435	42.72 ug/L	99
131) n-butylbenzene	18.459	92	119566	36.96 ug/L	99
133) 1,2-dibromo-3-chloropr...	19.328	75	13120	44.06 ug/L	95
134) 1,3,5-trichlorobenzene	19.500	180	102968	38.83 ug/L	99
135) hexachlorobutadiene	20.217	225	47930	36.67 ug/L	99
136) naphthalene	20.379	128	181139	38.26 ug/L	100
137) 1,2,4-trichlorobenzene	20.107	180	86329	38.72 ug/L	97
138) 1,2,3-trichlorobenzene	20.614	180	75551	38.31 ug/L	99
139) hexachloroethane	18.825	201	43362	41.16 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123649.D
Acq On : 11 Feb 2012 5:09 pm
Operator : tamikag
Sample : JA98960-6MS
Misc : MS25469,VX5283,5.0,,,,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Feb 13 12:16:29 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123650.D
Acq On : 11 Feb 2012 5:39 pm
Operator : tamikag
Sample : JA98960-6MSD
Misc : MS25469,VX5283,5.2,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 12:16:46 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.298	65	66165	500.00	ug/L	0.03
5) pentafluorobenzene	9.992	168	171763	50.00	ug/L	0.03
62) 1,4-difluorobenzene	11.153	114	257930	50.00	ug/L	0.03
93) chlorobenzene-d5	15.374	117	251535	50.00	ug/L	0.03
108) 1,4-dichlorobenzene-d4	18.161	152	123399	50.00	ug/L	0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.039	113	71412	55.27	ug/L	0.03
Spiked Amount 50.000	Range 67 - 131		Recovery = 110.54%			
55) 1,2-dichloroethane-d4 (s)	10.567	65	68167	48.12	ug/L	0.03
Spiked Amount 50.000	Range 66 - 130		Recovery = 96.24%			
85) toluene-d8 (s)	13.344	98	281421	58.22	ug/L	0.03
Spiked Amount 50.000	Range 76 - 125		Recovery = 116.44%			
110) 4-bromofluorobenzene (s)	16.875	95	102357	48.03	ug/L	0.03
Spiked Amount 50.000	Range 53 - 142		Recovery = 96.06%			
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.429	59	39922	224.04	ug/L	98
4) 1,4-dioxane	12.099	88	19284	1313.55	ug/L #	91
11) chlorodifluoromethane	3.778	51	47627	35.52	ug/L	93
12) dichlorodifluoromethane	3.762	85	86302	49.13	ug/L	98
15) chloromethane	4.092	50	94532	41.47	ug/L	98
16) vinyl chloride	4.359	62	81997	48.06	ug/L	98
18) bromomethane	5.002	94	54286	58.69	ug/L	99
19) chloroethane	5.180	64	42806	45.52	ug/L	98
21) trichlorofluoromethane	5.671	101	98239	50.78	ug/L	99
22) pentane	5.739	43	82409	37.53	ug/L	98
23) ethyl ether	6.079	74	31783	39.54	ug/L	89
27) acrolein	6.367	56	66320	230.38	ug/L #	100
28) 1,1-dichloroethene	6.545	96	42514	35.59	ug/L	88
29) acetone	6.597	58	11267	98.26	ug/L	87
30) allyl chloride	7.115	76	30477	35.64	ug/L #	87
31) acetonitrile	7.078	40	46708	381.49	ug/L #	60
32) iodomethane	6.843	142	87427	37.06	ug/L	98
33) iso-butyl alcohol	10.373	43	30777	456.54	ug/L	96
34) carbon disulfide	6.974	76	144672	31.32	ug/L	99
35) methylene chloride	7.335	84	65304	38.86	ug/L	94
36) methyl acetate	7.099	43	78531	69.63	ug/L	94
37) methyl tert butyl ether	7.706	73	162545	39.29	ug/L	97
38) trans-1,2-dichloroethene	7.758	96	51032	37.10	ug/L	90
39) di-isopropyl ether	8.402	45	208053	35.44	ug/L	75
40) 2-butanone	9.280	72	9227	64.30	ug/L #	32
41) 1,1-dichloroethane	8.417	63	95606	35.94	ug/L	98
42) chloroprene	8.543	53	79482	37.15	ug/L	97
43) acrylonitrile	7.706	53	99815	215.39	ug/L	99
44) vinyl acetate	8.412	86	4488	21.76	ug/L	34
45) ethyl tert-butyl ether	8.972	59	204454	40.27	ug/L	98
46) ethyl acetate	9.322	70	5419	35.98	ug/L	86
47) 2,2-dichloropropane	9.322	77	67360	35.66	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123650.D
Acq On : 11 Feb 2012 5:39 pm
Operator : tamikag
Sample : JA98960-6MSD
Misc : MS25469,VX5283,5.2,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 12:16:46 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.322	96	61524	38.81	ug/L		93
49)	propionitrile	9.411	54	79589	454.87	ug/L		93
50)	tert-Butyl Formate	9.824	59	37028	26.91	ug/L	#	97
51)	bromochloromethane	9.709	128	32421	44.89	ug/L		86
52)	tetrahydrofuran	9.751	42	18671	36.37	ug/L		93
53)	chloroform	9.788	83	97234	37.06	ug/L		98
56)	freon 113	6.513	151	40295	47.55	ug/L		97
57)	methacrylonitrile	9.636	41	31445	37.04	ug/L		99
58)	1,1,1-trichloroethane	10.091	97	70370	35.56	ug/L		97
59)	cyclohexane	10.175	84	61687	34.57	ug/L		94
61)	iso-octane	10.661	57	168204	32.96	ug/L		98
64)	epichlorohydrin	12.690	57	17153	155.06	ug/L		98
65)	n-butyl alcohol	11.346	56	102195	2253.49	ug/L		95
66)	carbon tetrachloride	10.347	117	62411	37.52	ug/L		94
67)	1,1-dichloropropene	10.316	75	65250	35.20	ug/L		97
68)	hexane	8.103	57	65577	36.35	ug/L		97
69)	benzene	10.651	78	210970	36.40	ug/L		99
70)	tert-amyl methyl ether	10.713	73	183305	41.11	ug/L		98
71)	heptane	10.896	57	36070	31.96	ug/L		96
72)	isopropyl acetate	10.588	43	84507	30.70	ug/L		92
73)	1,2-dichloroethane	10.682	62	69226	36.93	ug/L		98
74)	trichloroethene	11.592	130	53824	38.49	ug/L		98
78)	2-chloroethyl vinyl ether	12.685	63	87673	172.95	ug/L		98
79)	methyl methacrylate	11.979	69	43369	46.82	ug/L		91
80)	1,2-dichloropropane	11.942	63	61038	36.31	ug/L		97
81)	dibromomethane	12.152	93	36415	40.80	ug/L		94
82)	methylcyclohexane	11.869	83	86922	40.05	ug/L		91
83)	bromodichloromethane	12.340	83	77408	37.83	ug/L		100
84)	cis-1,3-dichloropropene	12.962	75	99951	37.97	ug/L		97
86)	4-methyl-2-pentanone	13.109	58	24199	43.38	ug/L		90
87)	toluene	13.444	92	140158	38.95	ug/L		100
88)	3-methyl-1-butanol	13.161	55	63195	902.46	ug/L		92
89)	trans-1,3-dichloropropene	13.731	75	89499	38.90	ug/L		99
90)	ethyl methacrylate	13.747	69	61631	32.37	ug/L		97
91)	1,1,2-trichloroethane	14.019	83	46294	40.51	ug/L		98
92)	2-hexanone	14.270	58	25900	49.36	ug/L		92
94)	3,3-Dimethyl-1-butanol	14.516	57	65590	420.33	ug/L		97
95)	tetrachloroethene	14.228	164	45877	34.56	ug/L		97
96)	1,3-dichloropropane	14.259	76	87072	38.41	ug/L		96
97)	butyl acetate	14.390	56	29640	27.15	ug/L		96
98)	dibromochloromethane	14.605	129	64932	39.54	ug/L		100
99)	1,2-dibromoethane	14.793	107	56309	40.92	ug/L		99
101)	chlorobenzene	15.415	112	153241	35.90	ug/L		95
102)	1,1,1,2-tetrachloroethane	15.504	131	56330	36.77	ug/L		96
103)	ethylbenzene	15.499	91	236775	33.20	ug/L		99
104)	m,p-xylene	15.646	106	183265	66.10	ug/L		96
105)	o-xylene	16.189	106	96385	34.26	ug/L		96
106)	styrene	16.205	104	162816	34.24	ug/L		99
107)	bromoform	16.535	173	44557	41.37	ug/L		97
109)	isopropylbenzene	16.629	105	225851	34.14	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123650.D
Acq On : 11 Feb 2012 5:39 pm
Operator : tamikag
Sample : JA98960-6MSD
Misc : MS25469,VX5283,5.2,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 12:16:46 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

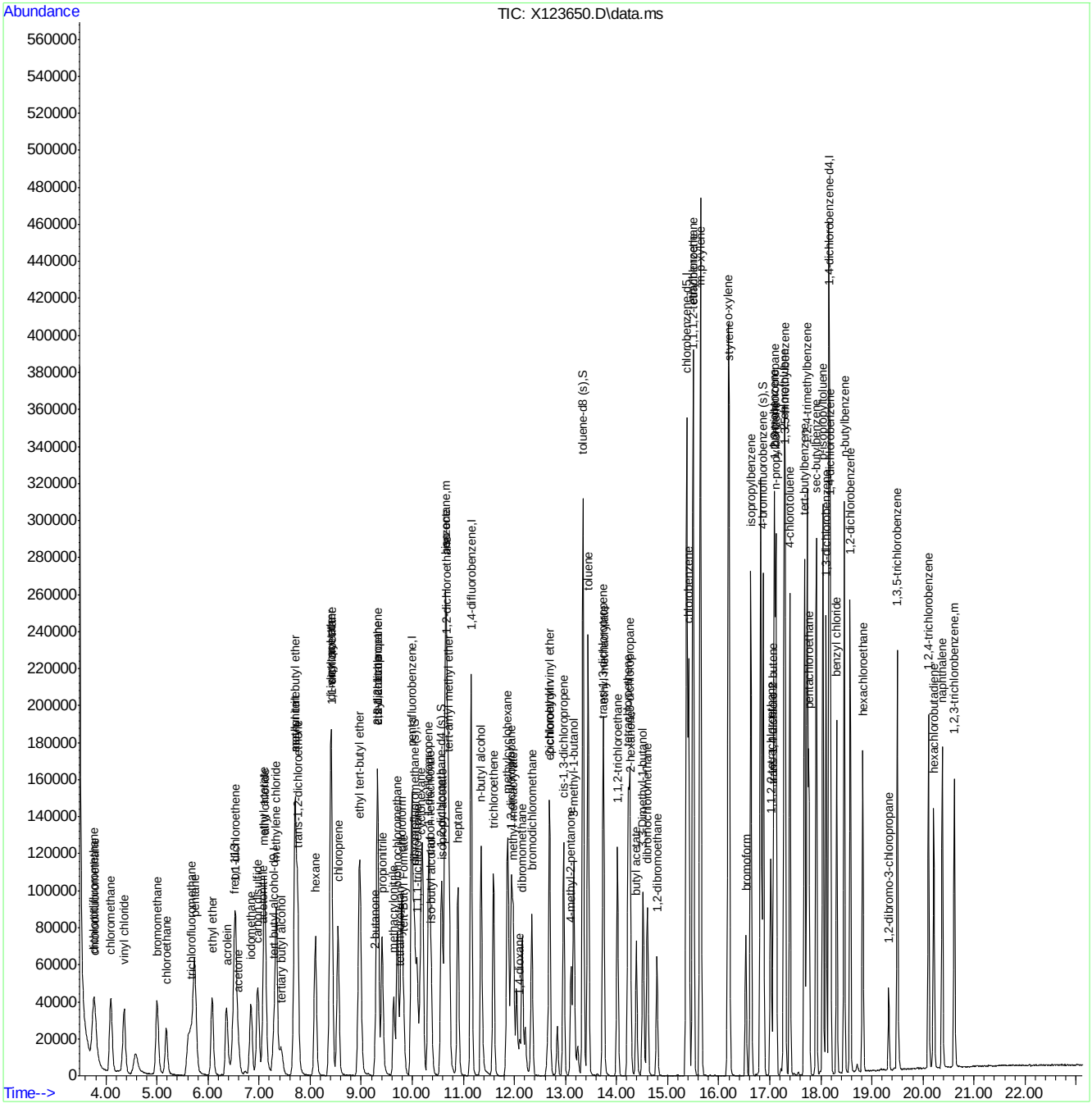
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
111) bromobenzene	17.089	156	66559	36.30	ug/L		96
112) 1,1,2,2-tetrachloroethane	17.021	83	71241	39.53	ug/L		99
113) trans-1,4-dichloro-2-b...	17.068	53	14901	32.75	ug/L		91
114) 1,2,3-trichloropropane	17.094	110	17685	41.31	ug/L	#	68
115) n-propylbenzene	17.120	91	252198	32.83	ug/L		99
117) 2-chlorotoluene	17.283	126	56771	33.89	ug/L		95
118) 4-chlorotoluene	17.392	91	167892	32.14	ug/L		98
119) 1,3,5-trimethylbenzene	17.303	105	183908	32.86	ug/L		100
120) tert-butylbenzene	17.680	119	161399	33.76	ug/L		99
121) pentachloroethane	17.769	167	41122	36.68	ug/L		98
122) 1,2,4-trimethylbenzene	17.732	105	191224	31.70	ug/L		99
124) sec-butylbenzene	17.910	105	233355	32.42	ug/L		99
125) 1,3-dichlorobenzene	18.104	146	113728	32.46	ug/L		99
126) p-isopropyltoluene	18.041	119	194553	32.76	ug/L		100
127) 1,4-dichlorobenzene	18.187	146	113321	31.96	ug/L		99
128) 1,2-dichlorobenzene	18.574	146	111048	32.74	ug/L		100
129) benzyl chloride	18.313	91	145581	41.73	ug/L		99
131) n-butylbenzene	18.459	92	97932	29.54	ug/L		98
133) 1,2-dibromo-3-chloropr...	19.328	75	11897	38.99	ug/L		96
134) 1,3,5-trichlorobenzene	19.495	180	81700	30.07	ug/L		97
135) hexachlorobutadiene	20.217	225	37245	27.81	ug/L		97
136) naphthalene	20.379	128	150245	30.97	ug/L		99
137) 1,2,4-trichlorobenzene	20.107	180	67914	29.72	ug/L		99
138) 1,2,3-trichlorobenzene	20.614	180	59922	29.66	ug/L		100
139) hexachloroethane	18.825	201	36251	33.58	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123650.D
Acq On : 11 Feb 2012 5:39 pm
Operator : tamikag
Sample : JA98960-6MSD
Misc : MS25469,VX5283,5.2,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 12:16:46 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration



MX5242.M Mon Feb 13 12:16:58 2012 ACCNJ

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V124255.D
Acq On : 13 Feb 2012 4:35 pm
Operator : conorl
Sample : JA98956-3MS
Misc : MS25473,VV5348,5.0,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 17:11:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.80	65	126649	500.00	ug/L	0.00
4) pentafluorobenzene	9.02	168	391538	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	588216	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	589373	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.01	152	328812	50.00	ug/L	0.00

System Monitoring Compounds						
57) dibromofluoromethane (s)	9.07	113	161810	51.06	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 102.12%			
58) 1,2-dichloroethane-d4 (s)	9.50	65	187260	51.37	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 102.74%			
85) toluene-d8 (s)	11.71	98	664359	55.65	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 111.30%			
109) 4-bromofluorobenzene (s)	14.70	95	274854	54.18	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 108.36%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.92	59	79001	263.95	ug/L	100
3) 1,4-dioxane	10.73	88	33851	1555.57	ug/L #	92
13) chlorodifluoromethane	3.74	51	224578	54.35	ug/L	99
14) dichlorodifluoromethane	3.74	85	337944	57.22	ug/L	97
15) chloromethane	4.02	50	353569	58.00	ug/L	97
16) vinyl chloride	4.24	62	318798	59.30	ug/L	99
17) bromomethane	4.82	96	181123	58.77	ug/L	96
18) chloroethane	4.97	64	165882	57.59	ug/L	97
19) trichlorofluoromethane	5.37	101	353842	57.36	ug/L	98
21) ethyl ether	5.76	74	76699	53.72	ug/L	94
22) Acetaldehyde	4.44	44	143016	447.03	ug/L	95
27) acrolein	6.00	56	200605	415.66	ug/L	98
28) freon 113	6.12	151	138667	53.19	ug/L	98
29) 1,1-dichloroethene	6.14	96	147690	50.09	ug/L	91
30) acetone	6.23	58	25082	117.83	ug/L	85
31) iso-butyl alcohol	9.57	74	49594	499.40	ug/L #	93
32) allyl chloride	6.64	78	28694	50.38	ug/L #	92
33) acetonitrile	6.63	40	123446	532.77	ug/L	73
34) iodomethane	6.41	142	277556	48.67	ug/L	97
35) carbon disulfide	6.55	76	531466	49.70	ug/L	99
36) methylene chloride	6.82	84	173873	48.33	ug/L	98
37) methyl acetate	6.69	43	79982	48.86	ug/L	96
38) methyl tert butyl ether	7.15	73	420538	47.57	ug/L	98
39) trans-1,2-dichloroethene	7.20	96	155440	48.48	ug/L	95
40) di-isopropyl ether	7.74	45	583295	48.39	ug/L	100
41) 2-butanone	8.51	72	20345	83.58	ug/L	45
42) 1,1-dichloroethane	7.75	63	302632	50.20	ug/L	98
43) chloroprene	7.87	53	248128	47.54	ug/L	98
44) acrylonitrile	7.17	53	193053	252.62	ug/L	97
45) vinyl acetate	7.82	86	11882	33.62	ug/L	41
46) ethyl tert-butyl ether	8.20	59	510921	48.59	ug/L	97
47) ethyl acetate	8.52	45	17111	47.43	ug/L #	35
48) 2,2-dichloropropane	8.49	77	267656	46.62	ug/L	97

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V124255.D
Acq On : 13 Feb 2012 4:35 pm
Operator : conorl
Sample : JA98956-3MS
Misc : MS25473,VV5348,5.0,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 17:11:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
49) cis-1,2-dichloroethene	8.50	96	162027	46.93	ug/L		96
50) propionitrile	8.56	54	156695	557.18	ug/L		98
51) methyl acrylate	8.66	85	11932	45.13	ug/L		98
52) methacrylonitrile	8.77	67	41998	53.21	ug/L		89
53) bromochloromethane	8.81	128	70807	47.25	ug/L		95
54) tetrahydrofuran	8.89	42	39992	48.38	ug/L		98
55) chloroform	8.86	83	269473	47.06	ug/L		96
56) tert-Butyl Formate	8.90	59	110366	41.34	ug/L	#	96
59) 1,1,1-trichloroethane	9.12	97	253792	48.85	ug/L		97
60) Cyclohexane	9.20	84	232870	48.09	ug/L		93
63) methylcyclohexane	10.55	83	271823	49.89	ug/L		93
64) epichlorohydrin	11.31	57	54278	239.60	ug/L		94
65) n-butyl alcohol	10.12	56	181399	2631.41	ug/L		96
66) carbon tetrachloride	9.34	117	221705	47.59	ug/L		97
67) 1,1-dichloropropene	9.32	75	209483	45.98	ug/L		97
68) hexane	7.50	57	207643	50.38	ug/L		98
69) 2,2,4-Trimethylpentane	9.58	57	637716	51.25	ug/L		99
70) benzene	9.58	78	598236	46.55	ug/L		99
71) tert-amyl methyl ether	9.61	73	447165	47.58	ug/L		98
72) heptane	9.77	57	121394	51.21	ug/L		96
73) isopropyl acetate	9.51	61	39347	45.80	ug/L	#	97
74) 1,2-dichloroethane	9.59	62	182412	46.06	ug/L		97
75) trichloroethene	10.33	95	150012	44.34	ug/L		98
76) Ethyl Acrylate	10.33	99	15853	32.77	ug/L		96
78) 2-chloroethyl vinyl ether	11.16	63	187717	576.16	ug/L		97
79) methyl methacrylate	10.63	100	25274	49.04	ug/L		92
80) 1,2-dichloropropane	10.58	63	157173	48.45	ug/L		97
81) dibromomethane	10.76	93	79266	47.68	ug/L		98
82) bromodichloromethane	10.89	83	196581	46.49	ug/L		99
83) 2-nitropropane	11.14	46	1862	57.94	ug/L	#	67
84) cis-1,3-dichloropropene	11.39	75	241399	47.47	ug/L		95
86) 4-methyl-2-pentanone	11.50	58	50731	56.22	ug/L		91
87) toluene	11.79	92	359024	46.32	ug/L		99
88) isoamyl alcohol	11.54	55	127786	1129.51	ug/L		97
89) trans-1,3-dichloropropene	12.01	75	206671	47.08	ug/L		93
90) ethyl methacrylate	12.02	69	145975	47.55	ug/L		98
91) 1,1,2-trichloroethane	12.23	83	94310	47.06	ug/L		98
92) 2-hexanone	12.46	58	79916	94.70	ug/L		99
94) tetrachloroethene	12.44	166	189392	47.29	ug/L		97
95) 1,3-dichloropropane	12.43	76	192331	42.99	ug/L		98
96) butyl acetate	12.54	73	26753	41.19	ug/L		93
97) 3,3-Dimethyl-1-Butanol	12.63	69	96785	447.36	ug/L		98
98) dibromochloromethane	12.73	129	139293	41.96	ug/L		98
99) 1,2-dibromoethane	12.90	107	112099	42.99	ug/L		94
100) chlorobenzene	13.42	112	403341	41.37	ug/L		98
101) 1,1,1,2-tetrachloroethane	13.49	131	153283	42.20	ug/L		98
102) ethylbenzene	13.49	91	694750	42.05	ug/L		100
103) m,p-xylene	13.61	106	532203	82.76	ug/L		100
104) o-xylene	14.08	106	259440	40.09	ug/L		96
105) styrene	14.10	104	430843	39.89	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V124255.D
Acq On : 13 Feb 2012 4:35 pm
Operator : conorl
Sample : JA98956-3MS
Misc : MS25473,VV5348,5.0,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 17:11:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

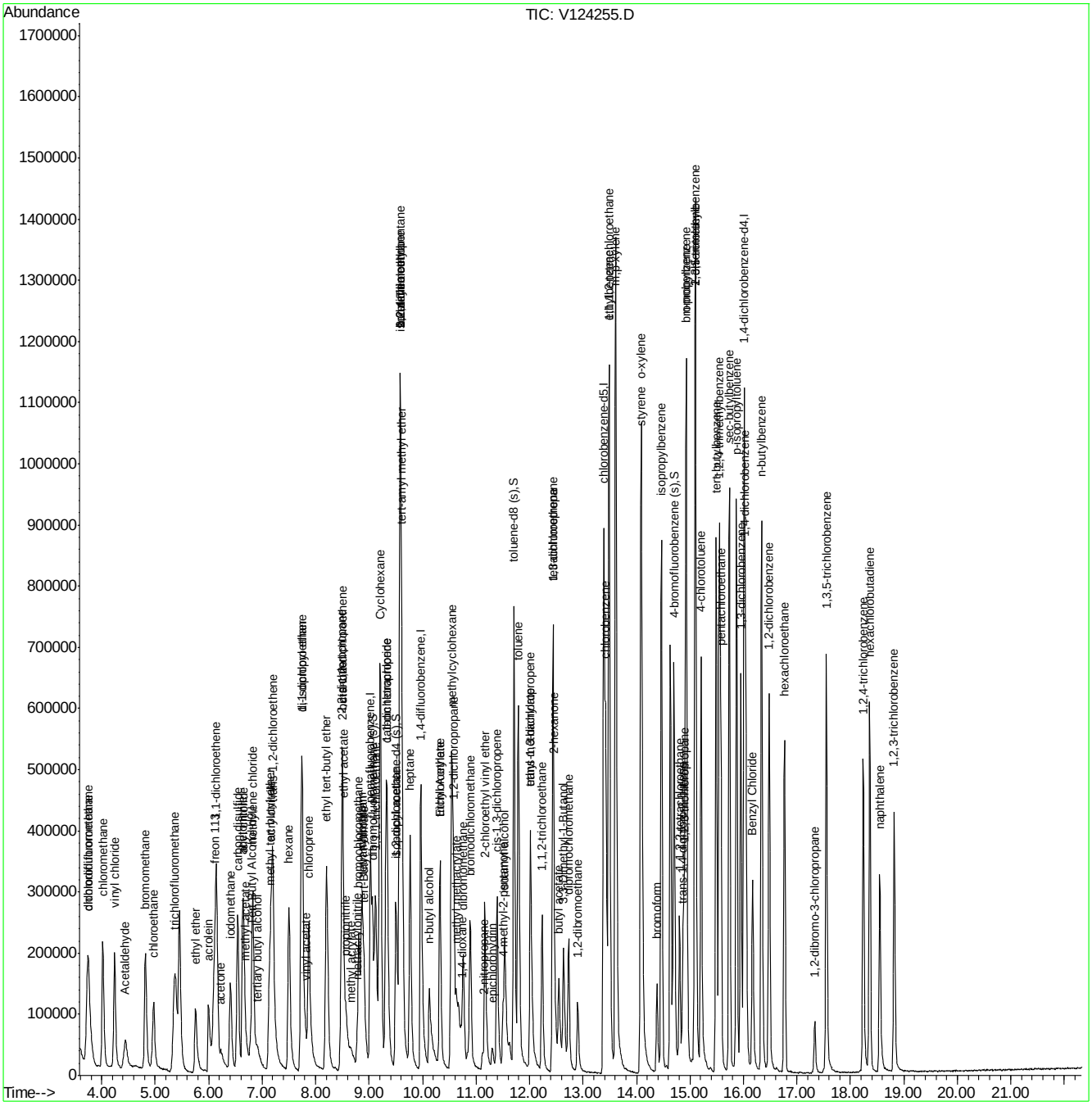
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
107) bromoform	14.38	173	96047	42.46 ug/L	98
111) isopropylbenzene	14.46	105	720723	40.23 ug/L	99
112) 1,1,2,2-tetrachloroethane	14.81	83	164430	43.81 ug/L	96
113) trans-1,4-dichloro-2-buten	14.86	53	47646	48.35 ug/L	86
114) 1,2,3-trichloropropane	14.89	110	38849	45.25 ug/L	85
115) bromobenzene	14.92	156	184093	40.89 ug/L	98
116) n-propylbenzene	14.93	91	828966	40.53 ug/L	99
118) 2-chlorotoluene	15.09	126	174556	38.78 ug/L	100
119) 4-chlorotoluene	15.21	91	513527	38.79 ug/L	98
120) 1,3,5-trimethylbenzene	15.10	105	604825	38.47 ug/L	99
121) tert-butylbenzene	15.49	119	513011	38.66 ug/L	99
122) pentachloroethane	15.58	167	106872	34.84 ug/L	97
123) 1,2,4-trimethylbenzene	15.55	105	592156	38.79 ug/L	98
124) sec-butylbenzene	15.74	105	816076	39.76 ug/L	99
125) p-isopropyltoluene	15.87	119	664374	39.85 ug/L	98
126) 1,3-dichlorobenzene	15.95	146	332149	40.66 ug/L	99
127) 1,4-dichlorobenzene	16.04	146	343026	40.53 ug/L	98
128) 1,2-dichlorobenzene	16.48	146	327522	41.33 ug/L	97
129) Benzyl Chloride	16.17	91	305424	43.08 ug/L	96
132) n-butylbenzene	16.34	92	347427	36.69 ug/L	98
133) hexachloroethane	16.77	201	123813	37.69 ug/L	98
135) 1,2-dibromo-3-chloropropan	17.33	75	27602	40.44 ug/L	95
136) 1,3,5-trichlorobenzene	17.55	180	288853	37.63 ug/L	99
137) 1,2,4-trichlorobenzene	18.24	180	217634	36.70 ug/L	98
138) hexachlorobutadiene	18.36	225	164054	37.30 ug/L	100
139) naphthalene	18.55	128	352305	38.11 ug/L	100
140) 1,2,3-trichlorobenzene	18.82	180	187533	38.15 ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\
Data File : V124255.D
Acq On : 13 Feb 2012 4:35 pm
Operator : conorl
Sample : JA98956-3MS
Misc : MS25473,VV5348,5.0,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Feb 13 17:11:13 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124258.D
Acq On : 13 Feb 2012 6:35 pm
Operator : conorl
Sample : JA98956-8DUP
Misc : MS25473,VV5348,5.1,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Feb 14 15:54:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.80	65	104274	500.00	ug/L	0.00
4) pentafluorobenzene	9.03	168	359818	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	551978	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	586211	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	286037	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.07	113	153337	52.65	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 105.30%			
58) 1,2-dichloroethane-d4 (s)	9.50	65	170300	50.84	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 101.68%			
85) toluene-d8 (s)	11.71	98	630717	56.30	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 112.60%			
109) 4-bromofluorobenzene (s)	14.70	95	252274	50.00	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 100.00%			

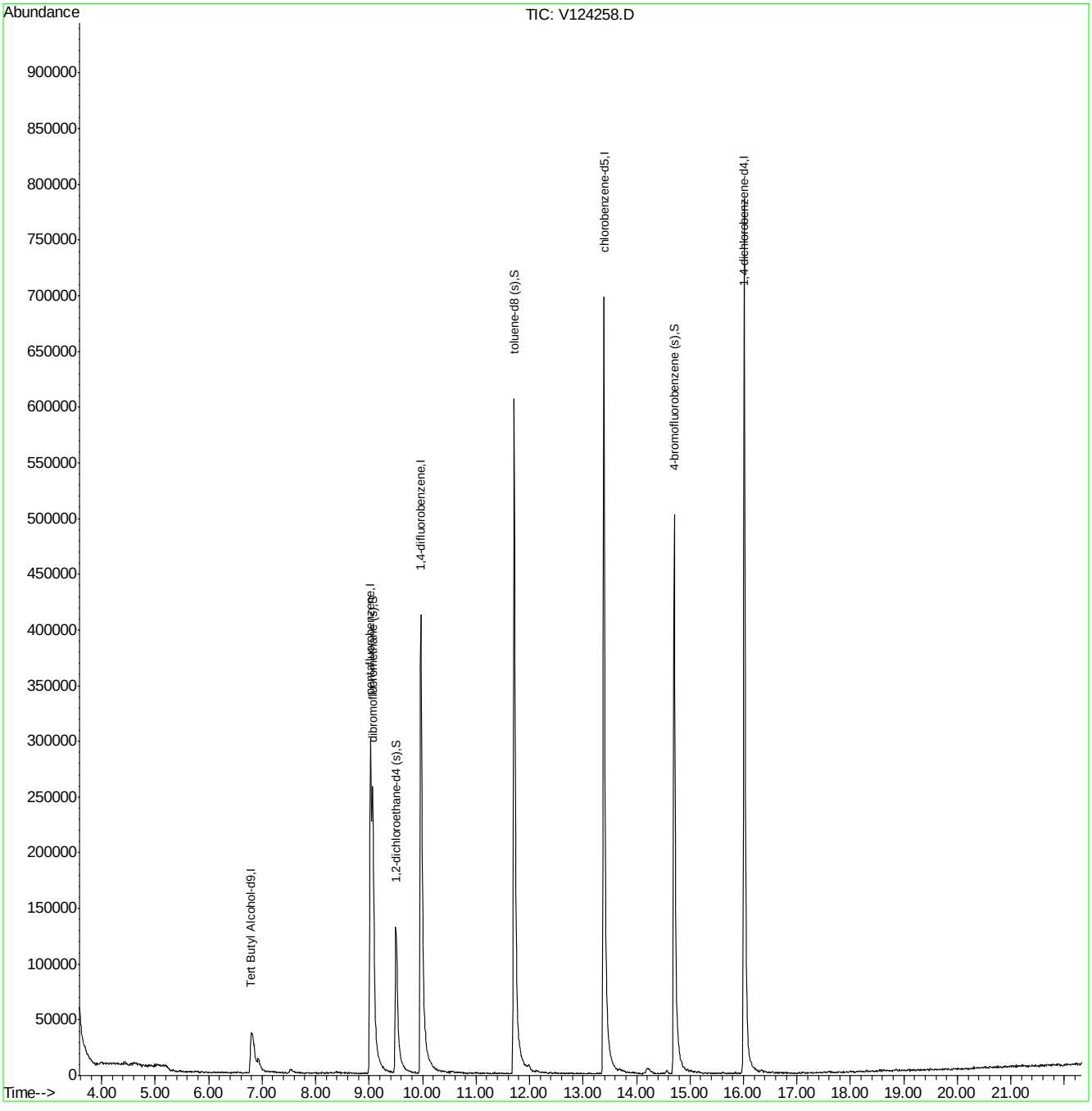
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124258.D
Acq On : 13 Feb 2012 6:35 pm
Operator : conorl
Sample : JA98956-8DUP
Misc : MS25473,VV5348,5.1,,,,1
ALS Vial : 16 Sample Multiplier: 1

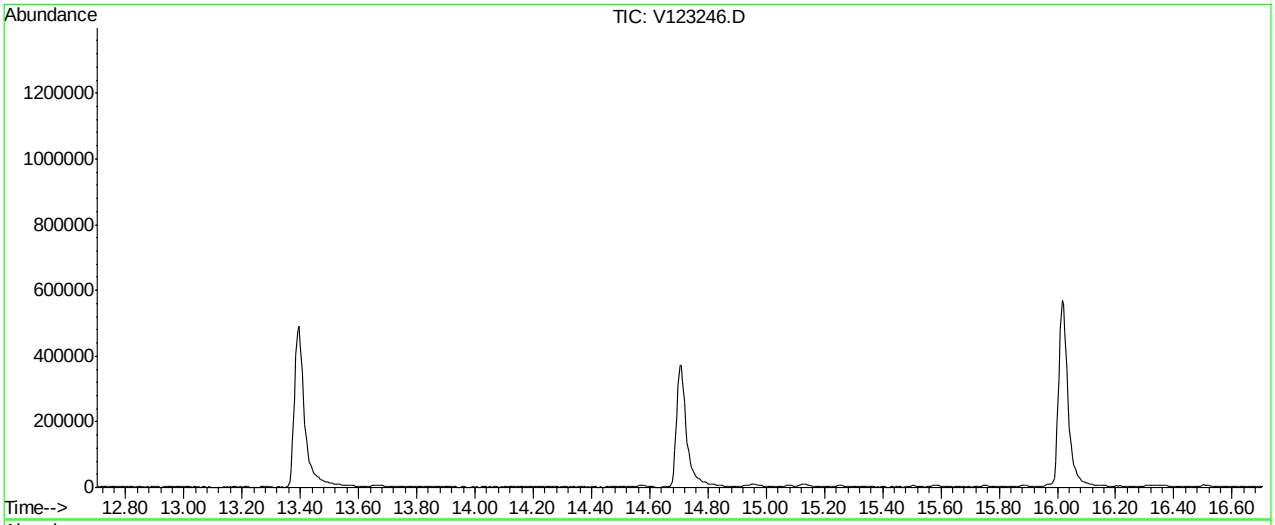
Quant Time: Feb 14 15:54:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

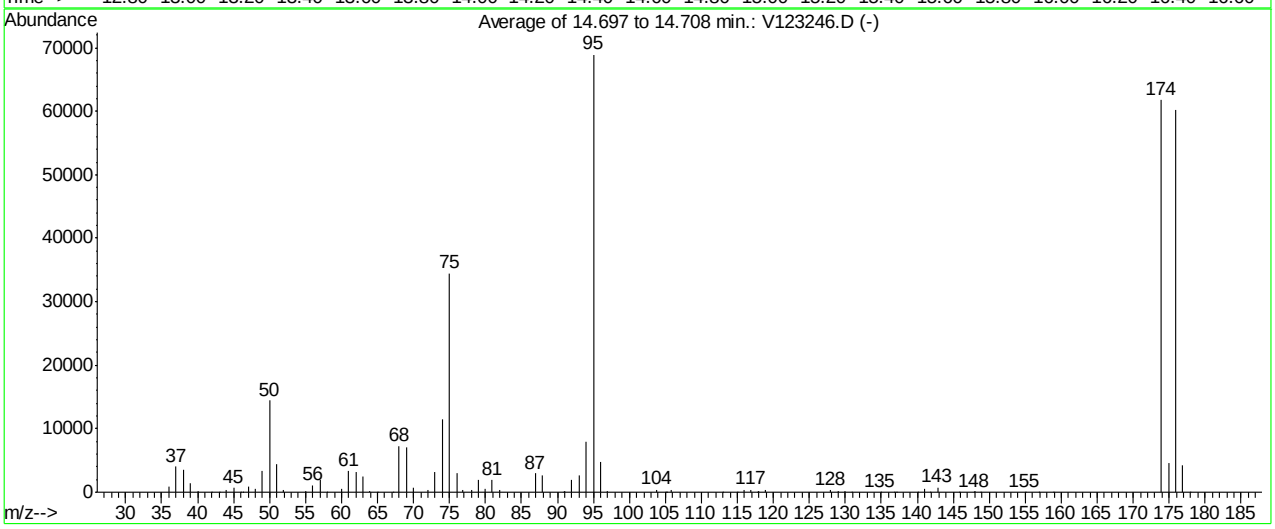


SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\V123246.D Vial: 1
Acq On : 12 Jan 2012 9:47 am Operator: conorl
Sample : BFB Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2183, 2184, 2185; Background Corrected with Scan 2174

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.9	14413	PASS
75	95	30	60	50.0	34496	PASS
95	95	100	100	100.0	68941	PASS
96	95	5	9	6.9	4760	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.6	61794	PASS
175	174	5	9	7.5	4644	PASS
176	174	95	101	97.3	60133	PASS
177	176	5	9	7.1	4285	PASS

V123246.D MVS5294.M Fri Jan 13 09:26:09 2012 RPT1

Average of 14.697 to 14.708 min.: V123246.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	806	47.00	950	61.00	3296	74.00	11486
37.00	4026	48.05	513	62.00	3177	75.00	34496
38.00	3461	49.00	3447	63.00	2516	76.00	2977
39.00	1403	50.00	14413	63.95	259	76.90	294
40.00	121	51.00	4415	65.00	37	78.05	307
41.90	49	51.95	290	67.10	77	78.95	1915
42.95	88	55.00	211	68.00	7326	79.95	494
43.95	360	56.00	1100	69.00	7145	80.90	1908
45.00	665	57.00	1900	70.00	707	81.90	370
46.00	81	58.00	54	71.95	421	86.95	2950
46.30	38	60.05	615	73.00	3109	87.95	2733

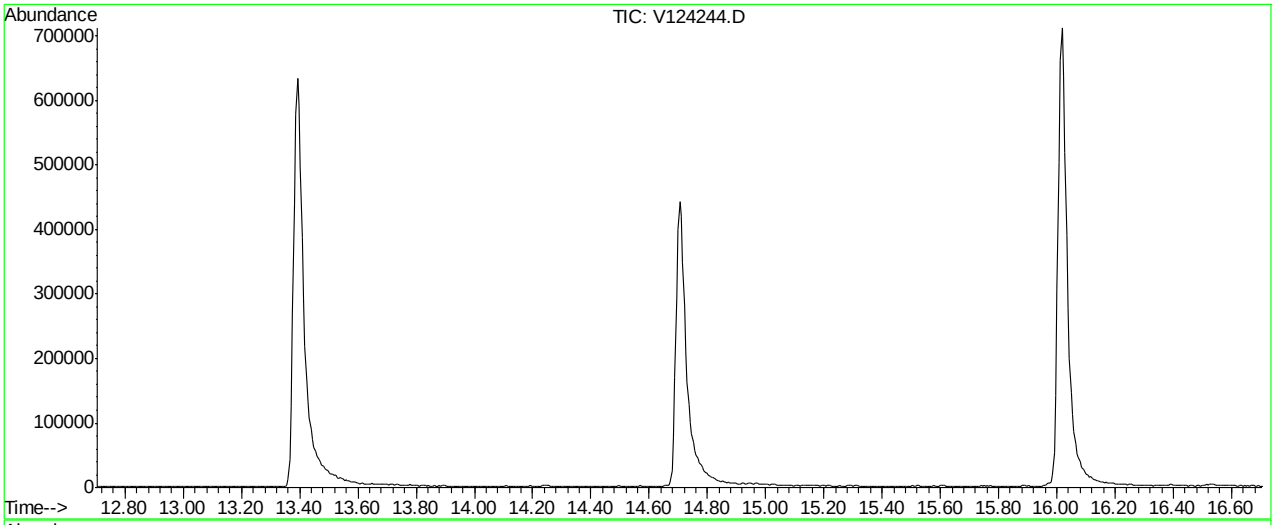
Average of 14.697 to 14.708 min.: V123246.D
BFB
Modified:subtracted

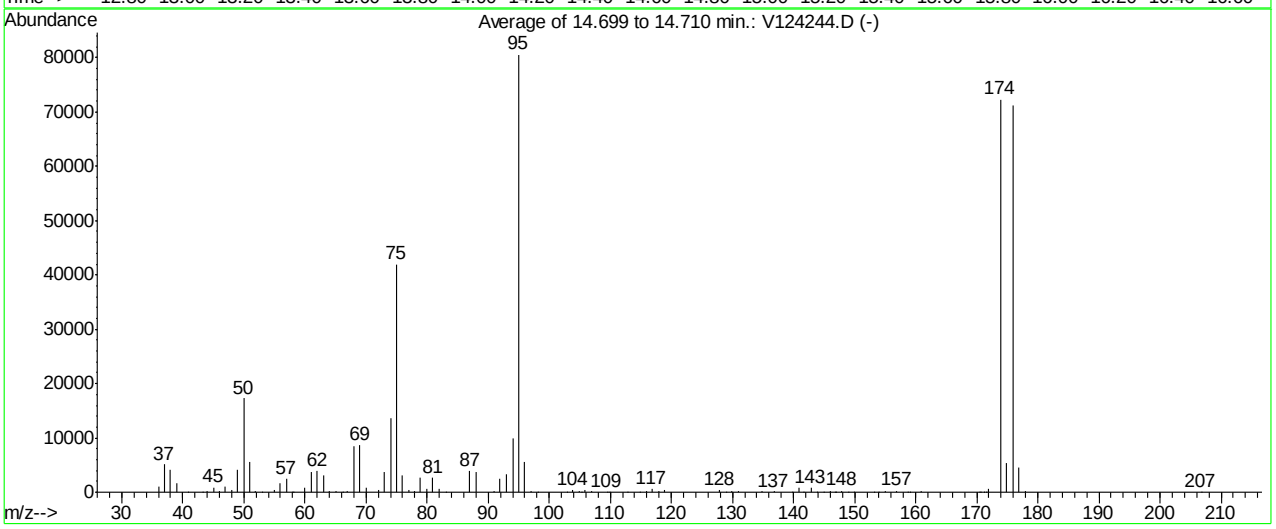
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
90.80	75	105.80	366	130.90	68	148.80	36
90.95	179	113.00	49	134.90	89	154.95	94
91.95	2007	115.00	37	136.80	86	156.90	44
93.00	2724	115.95	275	137.05	70	158.85	83
94.00	7981	116.90	412	140.00	46	173.90	61794
95.00	68941	117.80	76	140.95	568	174.90	4644
96.00	4760	117.95	197	141.85	72	175.90	60133
96.95	110	118.90	390	142.85	709	176.90	4285
103.85	383	127.95	290	145.85	79	177.90	89
105.00	43	128.95	155	147.80	61		
105.20	38	129.90	270	148.00	115		

SW-846 Method 8260

Data File : C:\MSDCHEM\1\DATA\V124244.D Vial: 1
Acq On : 13 Feb 2012 10:04 am Operator: conorl
Sample : BFB Inst : MSV
Misc : MS25499,VV5348,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2126, 2127, 2128; Background Corrected with Scan 2117

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	21.5	17304	PASS
75	95	30	60	52.0	41896	PASS
95	95	100	100	100.0	80584	PASS
96	95	5	9	6.8	5489	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	89.7	72269	PASS
175	174	5	9	7.6	5463	PASS
176	174	95	101	98.5	71213	PASS
177	176	5	9	6.4	4565	PASS

V124244.D MVS5294.M Mon Feb 13 13:50:23 2012 RPT1

Average of 14.699 to 14.710 min.: V124244.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.00	976	49.00	4075	61.00	3815	73.00	3695
37.00	5066	50.00	17304	62.00	3842	74.00	13682
38.00	4085	51.00	5525	63.00	3073	75.00	41896
39.00	1688	51.95	199	64.05	296	76.00	3188
40.95	96	52.90	53	65.00	288	76.95	521
43.25	110	54.95	360	66.10	61	77.95	278
44.00	189	56.00	1685	66.95	277	78.85	2621
45.00	903	57.00	2458	68.00	8432	79.95	713
46.00	165	57.90	49	69.00	8696	80.90	2608
47.00	967	58.10	41	70.00	754	81.95	637
48.05	523	59.95	871	72.00	363	83.00	40

Average of 14.699 to 14.710 min.: V124244.D
BFB
Modified:subtracted

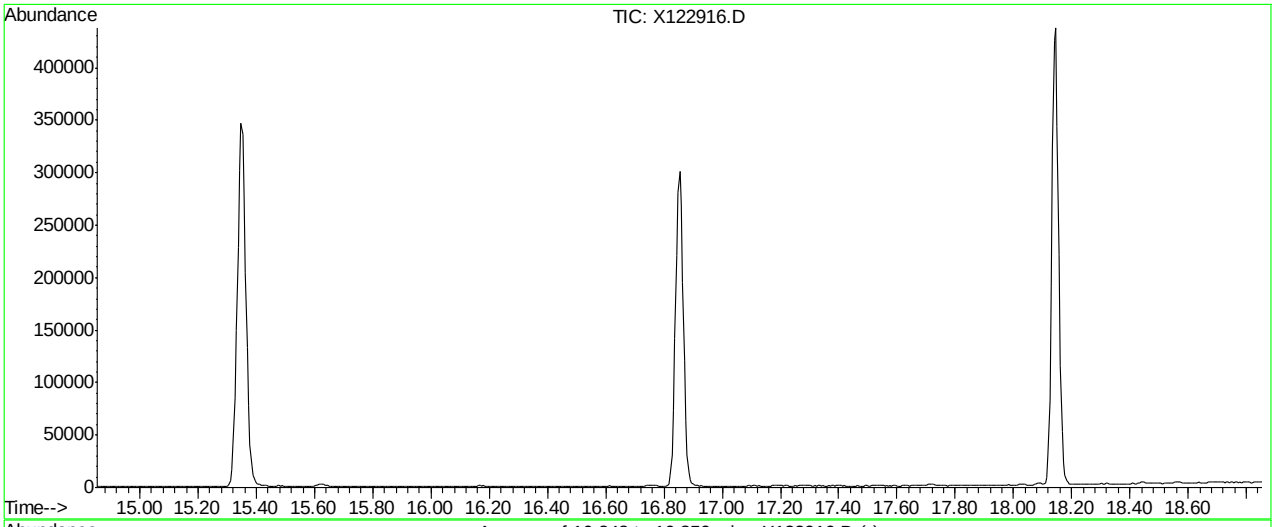
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
87.00	3922	103.85	354	118.00	311	142.85	811
87.95	3654	104.85	124	118.95	476	143.80	53
90.95	291	105.20	48	127.90	324	145.00	54
91.95	2414	105.85	323	128.90	82	145.95	142
92.95	3393	107.00	125	129.95	253	146.70	33
94.00	9825	109.50	36	130.90	144	147.00	37
95.00	80584	109.80	33	134.90	119	147.90	225
96.00	5489	112.80	53	136.80	158	149.00	55
97.00	210	114.80	77	139.80	86	149.80	45
98.05	99	115.95	269	140.85	736	153.10	41
102.90	37	116.85	532	141.70	47	153.90	33

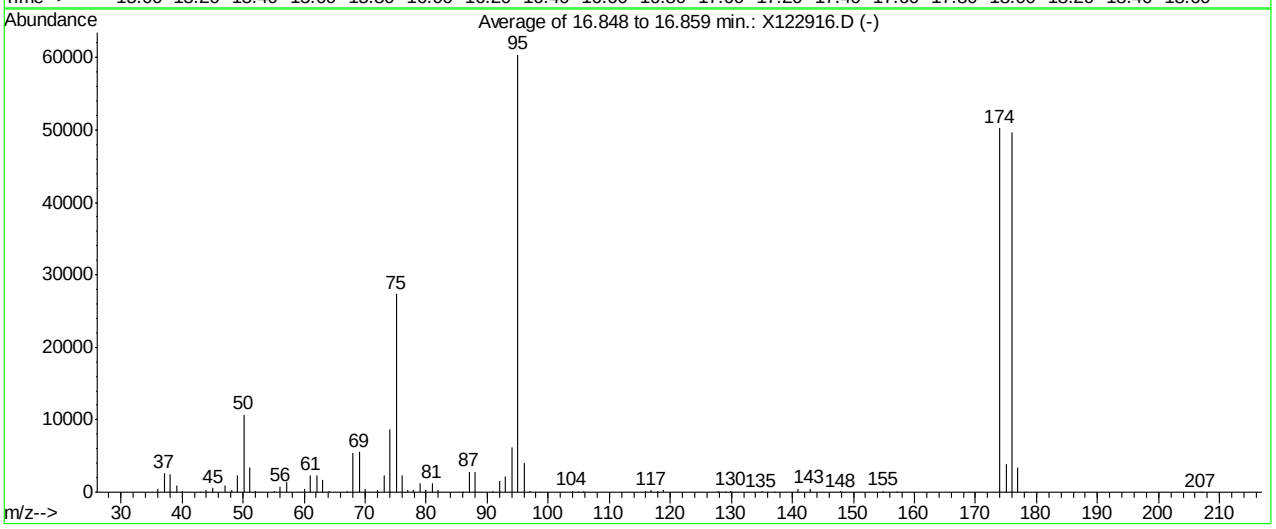
Average of 14.699 to 14.710 min.: V124244.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
154.95	217	174.90	5463				
156.90	264	175.90	71213				
158.70	33	176.90	4565				
159.10	36	177.95	114				
160.90	113	206.70	34				
170.40	41						
170.70	111						
171.10	34						
171.50	85						
171.95	544						
173.90	72269						

BFB

Data File : C:\MSDCHEM\1\DATA\X122916.D Vial: 9
Acq On : 18 Jan 2012 6:43 pm Operator: tamikag
Sample : BFB Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um





AutoFind: Scans 2556, 2557, 2558; Background Corrected with Scan 2546

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	17.7	10721	PASS
75	95	30	60	45.3	27384	PASS
95	95	100	100	100.0	60432	PASS
96	95	5	9	6.6	4015	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	83.1	50240	PASS
175	174	5	9	7.8	3919	PASS
176	174	95	101	98.8	49616	PASS
177	176	5	9	6.8	3354	PASS

X122916.D MX5242.M Thu Jan 19 11:24:05 2012 MSX

Average of 16.848 to 16.859 min.: X122916.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	524	50.10	10721	67.05	191	78.95	1226
37.10	2699	51.10	3354	68.05	5470	80.00	366
38.10	2457	52.05	149	69.05	5555	80.95	1286
39.10	972	55.10	112	70.05	418	81.95	259
40.00	157	56.10	777	72.05	304	86.05	68
43.05	50	57.10	1445	73.05	2398	87.00	2820
44.00	276	60.00	472	74.05	8684	88.00	2751
45.05	549	61.05	2402	75.10	27384	91.00	230
47.05	878	62.05	2333	76.05	2338	92.00	1510
48.05	345	63.05	1764	77.00	360	93.00	2221
49.10	2266	64.05	195	77.95	256	94.05	6254

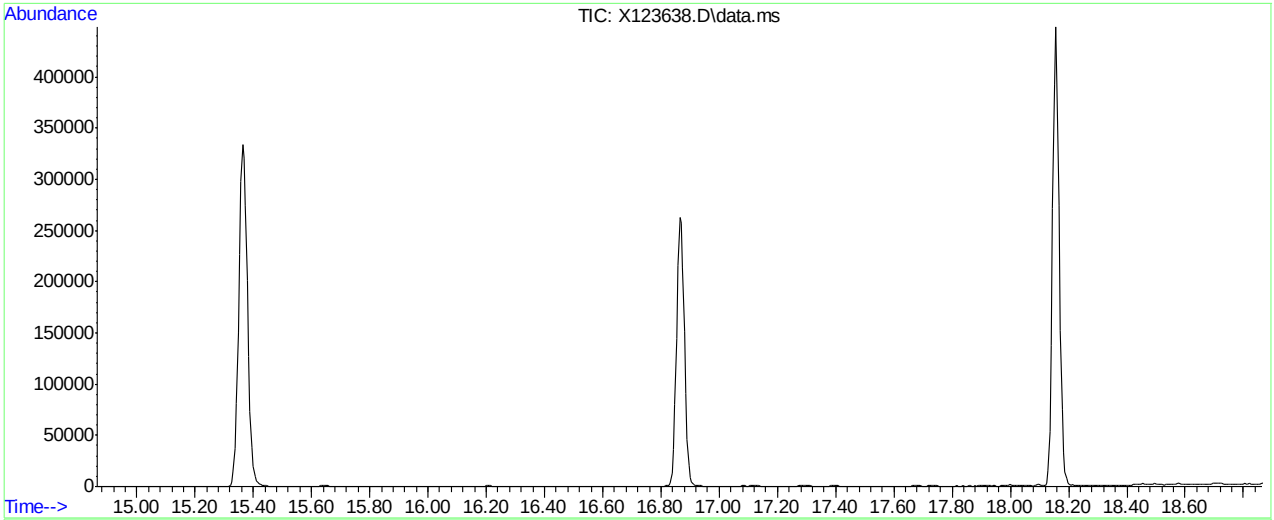
Average of 16.848 to 16.859 min.: X122916.D
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.05	60432	128.90	33	176.00	49616		
96.05	4015	129.90	206	176.95	3354		
97.00	145	134.95	106	177.95	77		
103.95	220	137.00	33	206.95	30		
104.95	69	140.90	491				
105.90	205	142.90	512				
115.95	180	147.90	132				
116.90	294	154.90	156				
117.90	196	157.00	39				
118.90	264	174.00	50240				
127.90	185	175.00	3919				

BFB

Data File : C:\msdchem\1\DATA\X\VX5883\X123638.D Vial: 1
Acq On : 11 Feb 2012 10:29 am Operator: tamikag
Sample : BFB Inst : MSX
Misc : MS25397,VX5283,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um



AutoFind: Scans 2558, 2559, 2560; Background Corrected with Scan 2549

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.7	8687	PASS
75	95	30	60	45.0	23448	PASS
95	95	100	100	100.0	52093	PASS
96	95	5	9	6.9	3592	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	86.9	45272	PASS
175	174	5	9	8.0	3607	PASS
176	174	95	101	97.9	44312	PASS
177	176	5	9	6.7	2974	PASS

X123638.D MX5242.M Mon Feb 13 12:07:47 2012 ACCNJ

Average of 16.859 to 16.869 min.: X123638.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	397	51.10	2714	69.00	4601	80.90	1096
37.10	2090	52.10	130	70.05	357	81.90	215
38.10	1957	56.05	641	72.00	241	86.10	37
39.10	772	57.05	1118	73.05	2026	87.00	2474
40.00	41	60.05	468	74.10	7427	88.00	2326
44.05	224	61.05	1978	75.10	23448	90.95	177
45.05	348	62.05	1983	76.05	2019	92.00	1198
47.05	775	63.10	1472	77.00	317	93.00	2001
48.00	309	64.05	148	78.00	249	94.05	5617
49.05	1780	67.00	45	78.95	1056	95.05	52093
50.10	8687	68.00	4652	80.00	320	96.05	3592

Average of 16.859 to 16.869 min.: X123638.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
97.05	125	142.90	425				
103.95	189	147.95	98				
105.90	185	154.85	110				
116.00	165	156.95	79				
116.95	300	173.90	45272				
117.95	149	175.00	3607				
118.95	238	175.95	44312				
127.95	163	176.95	2974				
129.00	39	207.00	24				
129.90	145						
140.90	475						

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123247.D
Acq On : 12 Jan 2012 10:51 am
Operator : conorl
Sample : IC5294-1
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 10:01:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:52:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.79	65	112855	500.00	ug/L	0.00
4) pentafluorobenzene	9.03	168	331752	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	495177	50.00	ug/L	0.00
93) chlorobenzene-d5	13.40	117	460922	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	237149	50.00	ug/L	0.00

System Monitoring Compounds						
57) dibromofluoromethane (s)	9.08	113	2997	1.08	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 2.16%#			
58) 1,2-dichloroethane-d4 (s)	9.55	65	3560	1.12	ug/L	0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 2.24%#			
85) toluene-d8 (s)	11.75	98	14038	1.40	ug/L	0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 2.80%#			
109) 4-bromofluorobenzene (s)	14.73	95	11399	2.87	ug/L	0.02
Spiked Amount 50.000	Range 53 - 142		Recovery = 5.74%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.96	59	1357	5.10	ug/L #	100
13) chlorodifluoromethane	3.72	51	4782	1.34	ug/L	93
14) dichlorodifluoromethane	3.75	85	5223	1.05	ug/L	91
15) chloromethane	4.01	50	6562	1.27	ug/L	95
16) vinyl chloride	4.23	62	4783	1.06	ug/L	89
17) bromomethane	4.82	96	3007	1.14	ug/L	78
18) chloroethane	4.97	64	2569	1.06	ug/L	82
19) trichlorofluoromethane	5.38	101	5376	1.03	ug/L	96
20) Vinyl Bromide	5.27	106	2485	0.99	ug/L #	96
21) ethyl ether	5.78	74	853	0.68	ug/L #	80
27) acrolein	5.98	56	380403	917.46	ug/L	99
28) freon 113	6.10	151	2402	1.10	ug/L #	15
29) 1,1-dichloroethene	6.15	96	2591	1.04	ug/L #	88
30) acetone	6.26	58	3210	16.06	ug/L #	38
31) iso-butyl alcohol	9.61	74	711	8.27	ug/L #	46
33) acetonitrile	6.78	40	1684	8.58	ug/L #	1
34) iodomethane	6.41	142	4916	1.02	ug/L	88
35) carbon disulfide	6.55	76	9615	1.04	ug/L	87
36) methylene chloride	6.84	84	7388	2.42	ug/L	95
37) methyl acetate	6.83	43	1075	0.89	ug/L #	62
38) methyl tert butyl ether	7.17	73	7750	1.04	ug/L	91
39) trans-1,2-dichloroethene	7.23	96	2768	1.02	ug/L #	81
40) di-isopropyl ether	7.77	45	11618	1.16	ug/L	96
42) 1,1-dichloroethane	7.77	63	5394	1.06	ug/L	95
43) chloroprene	7.92	53	5078	1.17	ug/L	92
44) acrylonitrile	7.37	53	854	1.43	ug/L	74
46) ethyl tert-butyl ether	8.22	59	9839	1.12	ug/L	98
48) 2,2-dichloropropane	8.50	77	4958	1.02	ug/L	93
49) cis-1,2-dichloroethene	8.54	96	3061	1.05	ug/L	78
52) methacrylonitrile	9.03	67	1151	1.48	ug/L #	20
53) bromochloromethane	8.83	128	1404	1.12	ug/L #	64
54) tetrahydrofuran	8.94	42	635	0.91	ug/L #	41
55) chloroform	8.88	83	4969	1.03	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123247.D
Acq On : 12 Jan 2012 10:51 am
Operator : conorl
Sample : IC5294-1
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 10:01:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:52:56 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
56) tert-Butyl Formate	8.92	59	655	0.29 ug/L #	1
59) 1,1,1-trichloroethane	9.14	97	4320	0.98 ug/L #	46
60) Cyclohexane	9.21	84	4596	1.11 ug/L #	36
61) Tert Amyl Alcohol	9.63	55	2176	30.78 ug/L #	1
63) methylcyclohexane	10.57	83	5148	1.14 ug/L	84
64) epichlorohydrin	11.50	57	1189	6.23 ug/L	86
66) carbon tetrachloride	9.34	117	4168	1.14 ug/L	77
67) 1,1-dichloropropene	9.34	75	3708	0.96 ug/L	87
68) hexane	7.52	57	4241	1.26 ug/L	89
69) 2,2,4-Trimethylpentane	9.59	57	11820	1.15 ug/L	94
70) benzene	9.61	78	11790	1.05 ug/L	94
71) tert-amyl methyl ether	9.64	73	8440	1.08 ug/L	85
72) heptane	9.79	57	2182	1.11 ug/L #	63
74) 1,2-dichloroethane	9.65	62	3422	1.03 ug/L	85
75) trichloroethene	10.37	95	3031	1.07 ug/L	73
77) tert-Amyl Ethyl Ether	10.51	87	3754	0.94 ug/L	79
80) 1,2-dichloropropane	10.61	63	3180	1.19 ug/L	90
81) dibromomethane	10.80	93	1496	1.08 ug/L	86
82) bromodichloromethane	10.92	83	3518	0.99 ug/L	92
84) cis-1,3-dichloropropene	11.45	75	4582	1.08 ug/L	86
87) toluene	11.84	92	7265	1.13 ug/L #	96
88) isoamyl alcohol	11.67	55	1927	20.27 ug/L #	56
89) trans-1,3-dichloropropene	12.08	75	4077	1.12 ug/L	69
90) ethyl methacrylate	12.15	69	2226	0.84 ug/L #	64
91) 1,1,2-trichloroethane	12.27	83	1638	0.97 ug/L	92
94) tetrachloroethene	12.46	166	3185	1.02 ug/L	90
95) 1,3-dichloropropane	12.48	76	3675	1.06 ug/L	98
97) 3,3-Dimethyl-1-Butanol	12.68	69	2725	16.92 ug/L #	76
98) dibromochloromethane	12.76	129	2709	1.05 ug/L	93
99) 1,2-dibromoethane	12.96	107	2255	1.12 ug/L	77
100) chlorobenzene	13.44	112	8744	1.11 ug/L	78
101) 1,1,1,2-tetrachloroethane	13.51	131	2772	0.97 ug/L #	73
102) ethylbenzene	13.52	91	14364	1.13 ug/L	90
103) m,p-xylene	13.65	106	10822	2.18 ug/L	81
104) o-xylene	14.12	106	5802	1.17 ug/L	90
105) styrene	14.16	104	9941	1.20 ug/L	97
107) bromoform	14.40	173	1816	0.99 ug/L	90
108) cyclohexanone	14.67	55	3208	13.77 ug/L	97
111) isopropylbenzene	14.49	105	14558	1.11 ug/L	97
112) 1,1,2,2-tetrachloroethane	14.83	83	2736	1.01 ug/L	97
113) trans-1,4-dichloro-2-buten	14.91	53	1036	1.46 ug/L #	52
114) 1,2,3-trichloropropane	14.90	110	515	0.81 ug/L #	18
115) bromobenzene	14.95	156	4744	1.46 ug/L	84
116) n-propylbenzene	14.95	91	18893	1.28 ug/L	96
117) 4-Ethyltoluene	15.07	105	13356	1.15 ug/L	92
118) 2-chlorotoluene	15.12	126	3915	1.24 ug/L #	63
119) 4-chlorotoluene	15.25	91	14440	1.51 ug/L	91
120) 1,3,5-trimethylbenzene	15.12	105	14926	1.32 ug/L	92
121) tert-butylbenzene	15.50	119	10903	1.16 ug/L	93
122) pentachloroethane	15.59	167	2177	0.98 ug/L	85

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123247.D
Acq On : 12 Jan 2012 10:51 am
Operator : conorl
Sample : IC5294-1
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 10:01:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:52:56 2012
Response via : Initial Calibration

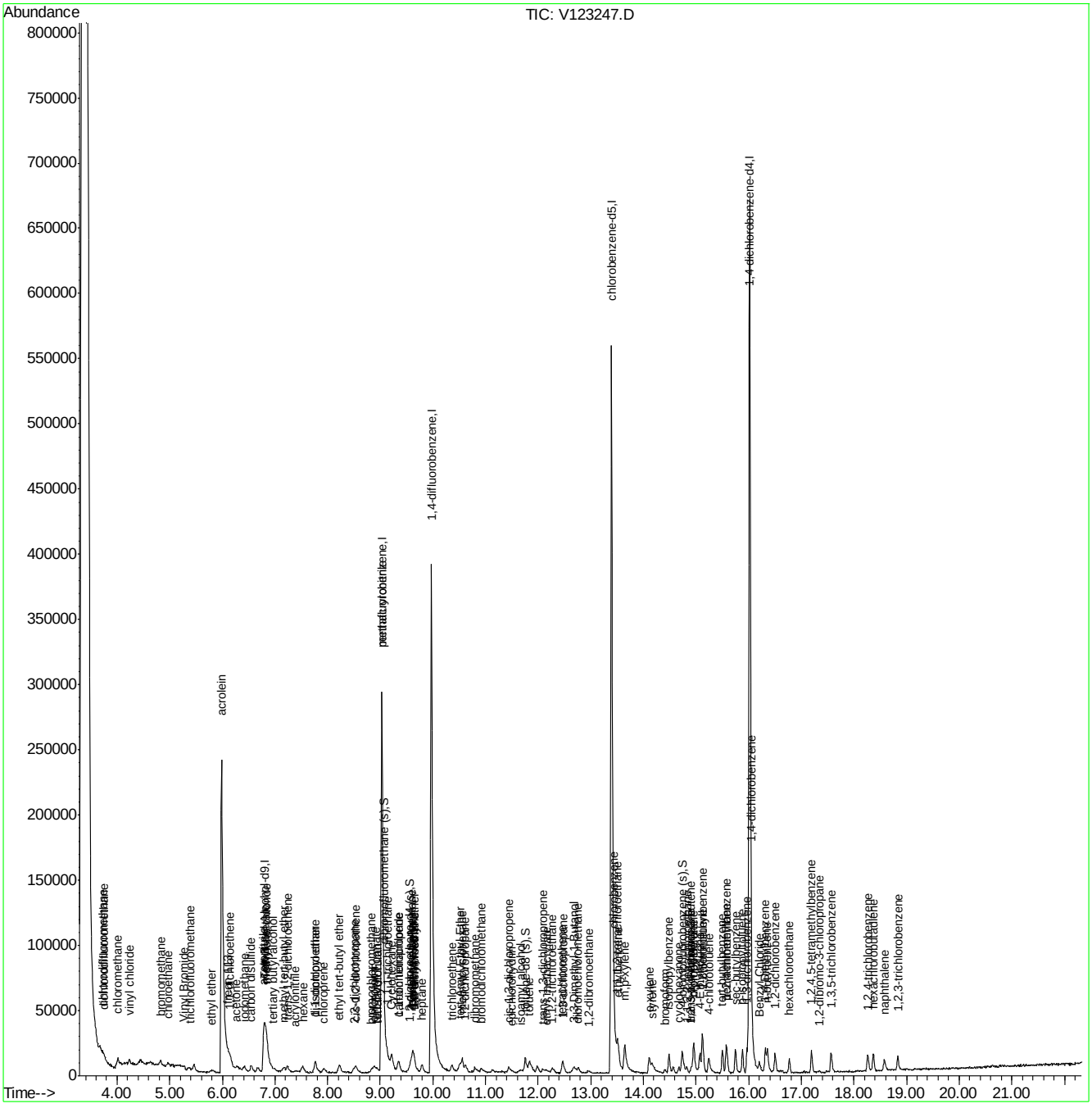
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
123) 1,2,4-trimethylbenzene	15.57	105	14327	1.30 ug/L	93
124) sec-butylbenzene	15.74	105	18059	1.22 ug/L	92
125) p-isopropyltoluene	15.88	119	14304	1.13 ug/L	95
126) 1,3-dichlorobenzene	15.97	146	9191	1.48 ug/L	99
127) 1,4-dichlorobenzene	16.05	146	11874	1.76 ug/L	90
128) 1,2-dichlorobenzene	16.50	146	8767	1.44 ug/L	94
129) Benzyl Chloride	16.20	91	6686	1.31 ug/L	89
131) 1,4-Diethylbenzene	16.32	119	8404	1.10 ug/L	93
132) n-butylbenzene	16.36	92	7974	1.20 ug/L	91
133) hexachloroethane	16.78	201	2551	1.09 ug/L	91
134) 1,2,4,5-tetramethylbenzene	17.19	119	12017	1.03 ug/L	96
135) 1,2-dibromo-3-chloropropan	17.35	75	510	0.99 ug/L #	71
136) 1,3,5-trichlorobenzene	17.57	180	7388	1.33 ug/L	98
137) 1,2,4-trichlorobenzene	18.26	180	6286	1.47 ug/L	91
138) hexachlorobutadiene	18.37	225	3788	1.14 ug/L	92
139) naphthalene	18.58	128	11251	1.69 ug/L	98
140) 1,2,3-trichlorobenzene	18.84	180	5082	1.43 ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123247.D
Acq On : 12 Jan 2012 10:51 am
Operator : conorl
Sample : IC5294-1
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 13 10:01:01 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:52:56 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123248.D
Acq On : 12 Jan 2012 11:21 am
Operator : conorl
Sample : IC5294-2
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 13 10:00:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:52:23 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.79	65	120178	500.00	ug/L	0.00
4) pentafluorobenzene	9.03	168	332795	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	491095	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	460513	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	240202	50.00	ug/L	0.00

System Monitoring Compounds						
57) dibromofluoromethane (s)	9.09	113	5838	2.12	ug/L	0.01
Spiked Amount 50.000	Range 67 - 131		Recovery = 4.24%#			
58) 1,2-dichloroethane-d4 (s)	9.55	65	6961	2.22	ug/L	0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 4.44%#			
85) toluene-d8 (s)	11.75	98	23746	2.46	ug/L	0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 4.92%#			
109) 4-bromofluorobenzene (s)	14.73	95	14053	3.55	ug/L	0.01
Spiked Amount 50.000	Range 53 - 142		Recovery = 7.10%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.92	59	656	2.32	ug/L	100
3) 1,4-dioxane	10.77	88	781	37.82	ug/L #	23
13) chlorodifluoromethane	3.74	51	7818	2.23	ug/L	95
14) dichlorodifluoromethane	3.75	85	10341	2.08	ug/L	99
15) chloromethane	4.01	50	10413	2.00	ug/L	96
16) vinyl chloride	4.23	62	9326	2.06	ug/L	97
17) bromomethane	4.81	96	5521	2.10	ug/L	89
18) chloroethane	4.97	64	5164	2.14	ug/L	91
19) trichlorofluoromethane	5.37	101	10620	2.04	ug/L	95
20) Vinyl Bromide	5.28	106	5574	2.26	ug/L #	89
21) ethyl ether	5.77	74	2303	1.79	ug/L #	77
27) acrolein	5.97	56	839974	2024.44	ug/L	99
28) freon 113	6.11	151	4494	2.06	ug/L	97
29) 1,1-dichloroethene	6.14	96	5154	2.08	ug/L	88
30) acetone	6.39	58	166	0.83	ug/L #	1
31) iso-butyl alcohol	9.62	74	1714	19.84	ug/L #	59
32) allyl chloride	6.67	78	1165	2.27	ug/L #	33
33) acetonitrile	6.65	40	906	4.60	ug/L	76
34) iodomethane	6.41	142	9808	2.03	ug/L	93
35) carbon disulfide	6.55	76	20113	2.19	ug/L	97
36) methylene chloride	6.83	84	7721	2.64	ug/L	91
37) methyl acetate	6.80	43	1669	1.30	ug/L #	62
38) methyl tert butyl ether	7.17	73	14499	1.93	ug/L	89
39) trans-1,2-dichloroethene	7.23	96	5835	2.17	ug/L	93
40) di-isopropyl ether	7.75	45	20916	2.09	ug/L	96
42) 1,1-dichloroethane	7.77	63	10102	1.98	ug/L	93
43) chloroprene	7.91	53	9172	2.12	ug/L	91
44) acrylonitrile	7.36	53	2960	4.56	ug/L #	69
46) ethyl tert-butyl ether	8.22	59	17207	1.94	ug/L	91
48) 2,2-dichloropropane	8.51	77	10671	2.22	ug/L	96
49) cis-1,2-dichloroethene	8.54	96	6626	2.32	ug/L #	67
50) propionitrile	8.73	54	869	3.64	ug/L	60
52) methacrylonitrile	9.03	67	1148	1.42	ug/L #	20

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123248.D
Acq On : 12 Jan 2012 11:21 am
Operator : conorl
Sample : IC5294-2
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 13 10:00:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:52:23 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
53) bromochloromethane	8.83	128	2673	2.15	ug/L	85
54) tetrahydrofuran	8.91	42	538	0.77	ug/L #	41
55) chloroform	8.88	83	9944	2.06	ug/L	83
56) tert-Butyl Formate	8.93	59	4079	1.77	ug/L #	92
59) 1,1,1-trichloroethane	9.13	97	9279	2.11	ug/L	80
60) Cyclohexane	9.21	84	10305	2.58	ug/L #	36
61) Tert Amyl Alcohol	9.49	55	558	7.60	ug/L #	1
63) methylcyclohexane	10.56	83	8868	1.98	ug/L	83
64) epichlorohydrin	11.38	57	522	2.76	ug/L	83
65) n-butyl alcohol	10.37	56	962	16.71	ug/L	78
66) carbon tetrachloride	9.35	117	8184	2.29	ug/L	92
67) 1,1-dichloropropene	9.34	75	8278	2.19	ug/L	88
68) hexane	7.52	57	6927	2.09	ug/L	92
69) 2,2,4-Trimethylpentane	9.59	57	20822	2.04	ug/L	95
70) benzene	9.61	78	22977	2.06	ug/L	97
71) tert-amyl methyl ether	9.63	73	16419	2.13	ug/L	96
72) heptane	9.78	57	4154	2.14	ug/L	85
74) 1,2-dichloroethane	9.64	62	6514	1.97	ug/L	91
75) trichloroethene	10.35	95	5616	2.01	ug/L	93
76) Ethyl Acrylate	10.35	99	566	1.54	ug/L #	36
77) tert-Amyl Ethyl Ether	10.51	87	7660	1.93	ug/L	92
78) 2-chloroethyl vinyl ether	11.30	63	2435	8.80	ug/L	71
80) 1,2-dichloropropane	10.61	63	4506	1.66	ug/L	97
81) dibromomethane	10.79	93	2733	1.98	ug/L #	74
82) bromodichloromethane	10.91	83	6710	1.88	ug/L	87
84) cis-1,3-dichloropropene	11.43	75	8597	2.05	ug/L	91
86) 4-methyl-2-pentanone	11.57	58	1374	1.80	ug/L #	5
87) toluene	11.83	92	12546	1.97	ug/L	85
88) isoamyl alcohol	11.64	55	4186	45.22	ug/L #	70
89) trans-1,3-dichloropropene	12.08	75	6854	1.88	ug/L	77
90) ethyl methacrylate	12.12	69	4895	1.85	ug/L #	64
91) 1,1,2-trichloroethane	12.27	83	3054	1.80	ug/L	81
94) tetrachloroethene	12.45	166	6365	2.04	ug/L	97
95) 1,3-dichloropropane	12.47	76	6913	1.99	ug/L	81
96) butyl acetate	12.65	73	1650	3.25	ug/L #	1
97) 3,3-Dimethyl-1-Butanol	12.66	69	3544	22.34	ug/L #	67
98) dibromochloromethane	12.76	129	5104	1.98	ug/L	89
99) 1,2-dibromoethane	12.95	107	3818	1.89	ug/L	77
100) chlorobenzene	13.43	112	16256	2.08	ug/L	97
101) 1,1,1,2-tetrachloroethane	13.49	131	5367	1.87	ug/L #	76
102) ethylbenzene	13.52	91	26652	2.12	ug/L	98
103) m,p-xylene	13.64	106	20472	4.14	ug/L	92
104) o-xylene	14.11	106	10097	2.05	ug/L	93
105) styrene	14.15	104	15908	1.92	ug/L	86
107) bromoform	14.40	173	3310	1.78	ug/L	86
108) cyclohexanone	14.67	55	6597	28.34	ug/L	89
111) isopropylbenzene	14.48	105	29413	2.25	ug/L	97
112) 1,1,2,2-tetrachloroethane	14.82	83	5651	2.07	ug/L	95
113) trans-1,4-dichloro-2-buten	14.91	53	1186	1.60	ug/L #	1
114) 1,2,3-trichloropropane	14.91	110	1220	1.88	ug/L #	77

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123248.D
Acq On : 12 Jan 2012 11:21 am
Operator : conorl
Sample : IC5294-2
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 13 10:00:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:52:23 2012
Response via : Initial Calibration

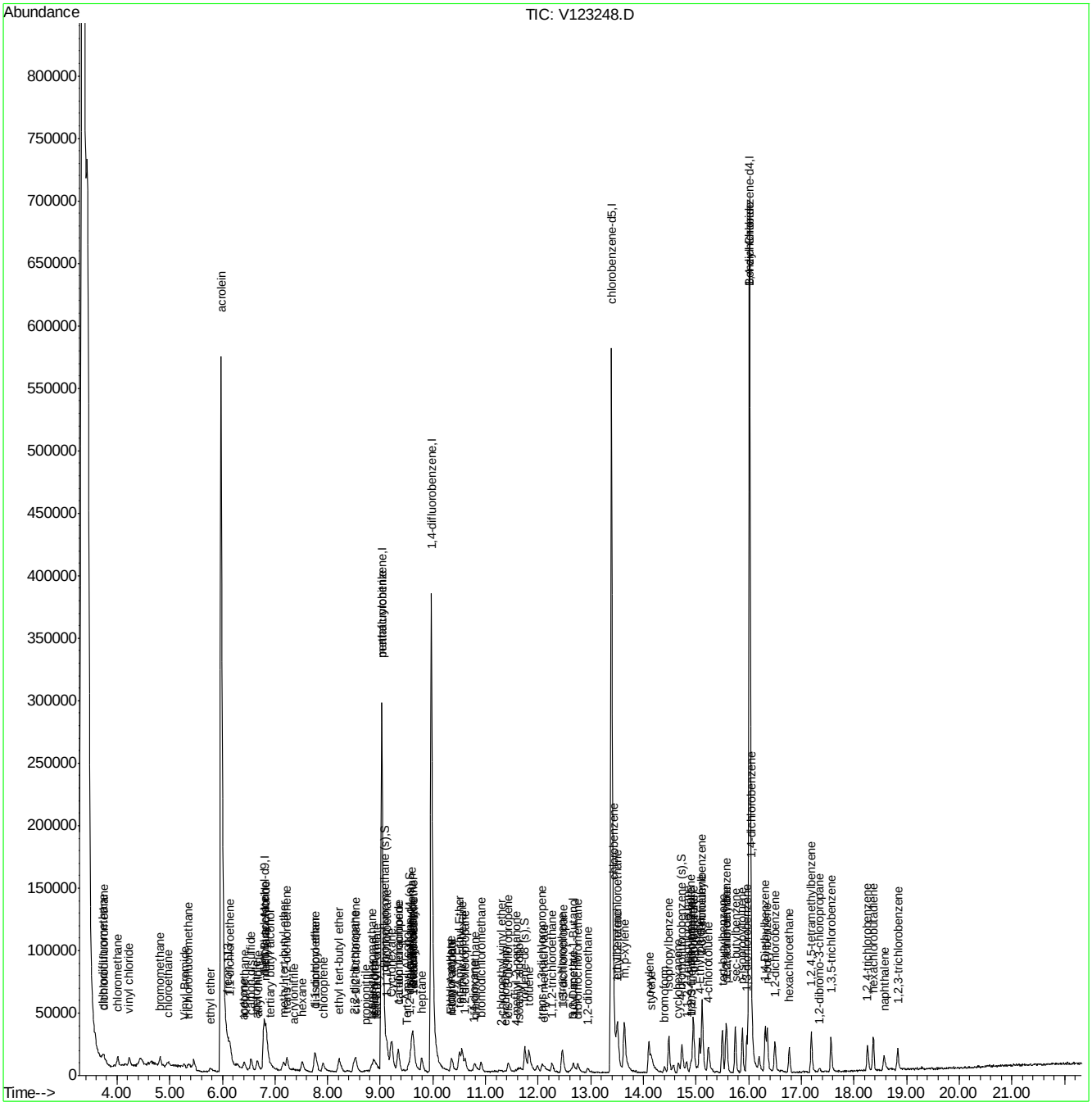
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
115) bromobenzene	14.95	156	7598	2.37 ug/L	94
116) n-propylbenzene	14.95	91	34006	2.33 ug/L	99
117) 4-Ethyltoluene	15.07	105	24182	2.07 ug/L	89
118) 2-chlorotoluene	15.11	126	6651	2.09 ug/L #	85
119) 4-chlorotoluene	15.23	91	21927	2.32 ug/L	98
120) 1,3,5-trimethylbenzene	15.12	105	26069	2.32 ug/L	97
121) tert-butylbenzene	15.50	119	20535	2.19 ug/L	97
122) pentachloroethane	15.59	167	4426	1.97 ug/L	94
123) 1,2,4-trimethylbenzene	15.57	105	25447	2.34 ug/L	95
124) sec-butylbenzene	15.75	105	34870	2.39 ug/L	97
125) p-isopropyltoluene	15.88	119	27017	2.13 ug/L	98
126) 1,3-dichlorobenzene	15.97	146	14368	2.33 ug/L	96
127) 1,4-dichlorobenzene	16.05	146	17273	2.64 ug/L	95
128) 1,2-dichlorobenzene	16.50	146	13722	2.26 ug/L	97
129) Benzyl Chloride	16.02	91	847	0.16 ug/L	91
131) 1,4-Diethylbenzene	16.31	119	16180	2.11 ug/L	95
132) n-butylbenzene	16.35	92	14529	2.18 ug/L	94
133) hexachloroethane	16.77	201	4461	1.86 ug/L	93
134) 1,2,4,5-tetramethylbenzene	17.19	119	23293	1.97 ug/L	97
135) 1,2-dibromo-3-chloropropan	17.34	75	1341	2.69 ug/L	95
136) 1,3,5-trichlorobenzene	17.56	180	12179	2.20 ug/L	92
137) 1,2,4-trichlorobenzene	18.25	180	9741	2.30 ug/L	91
138) hexachlorobutadiene	18.36	225	7339	2.20 ug/L	95
139) naphthalene	18.57	128	15238	2.31 ug/L	99
140) 1,2,3-trichlorobenzene	18.83	180	7968	2.26 ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123248.D
Acq On : 12 Jan 2012 11:21 am
Operator : conorl
Sample : IC5294-2
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 13 10:00:34 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:52:23 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123249.D
Acq On : 12 Jan 2012 11:52 am
Operator : conorl
Sample : IC5294-0.5
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 13 09:15:52 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:50:41 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.79	65	117730	500.00	ug/L	0.00
4) pentafluorobenzene	9.03	168	329733	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	479868	50.00	ug/L	0.00
93) chlorobenzene-d5	13.40	117	451124	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	232957	50.00	ug/L	0.00

System Monitoring Compounds						
57) dibromofluoromethane (s)	9.09	113	1795	0.70	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 1.40%#			
58) 1,2-dichloroethane-d4 (s)	9.57	65	2083	0.71	ug/L	0.04
Spiked Amount 50.000	Range 66 - 130		Recovery = 1.42%#			
85) toluene-d8 (s)	11.77	98	8482	0.90	ug/L	0.04
Spiked Amount 50.000	Range 76 - 125		Recovery = 1.80%#			
109) 4-bromofluorobenzene (s)	14.75	95	6812	1.75	ug/L	0.03
Spiked Amount 50.000	Range 53 - 142		Recovery = 3.50%#			

Target Compounds						Qvalue
14) dichlorodifluoromethane	3.73	85	2665	0.55	ug/L	92
15) chloromethane	4.02	50	3339	0.68	ug/L	89
16) vinyl chloride	4.23	62	2477	0.56	ug/L	86
17) bromomethane	4.83	96	1615	0.64	ug/L	81
18) chloroethane	4.97	64	1408	0.61	ug/L	89
19) trichlorofluoromethane	5.35	101	2520	0.49	ug/L	88
27) acrolein	6.10	56	3693	8.98	ug/L	78
28) freon 113	6.11	151	1055	0.49	ug/L	92
29) 1,1-dichloroethene	6.17	96	1261	0.51	ug/L #	69
30) acetone	6.33	58	696	3.50	ug/L #	1
33) acetonitrile	6.80	40	993	5.09	ug/L #	1
34) iodomethane	6.42	142	2407	0.50	ug/L	88
35) carbon disulfide	6.55	76	5534	0.63	ug/L	92
36) methylene chloride	6.84	84	7095	2.45	ug/L #	91
38) methyl tert butyl ether	7.16	73	3976	0.54	ug/L #	67
39) trans-1,2-dichloroethene	7.24	96	1294	0.48	ug/L	85
40) di-isopropyl ether	7.77	45	4798	0.48	ug/L	97
42) 1,1-dichloroethane	7.78	63	2203	0.43	ug/L	67
43) chloroprene	7.94	53	1851	0.42	ug/L	70
46) ethyl tert-butyl ether	8.21	59	4184	0.47	ug/L	81
48) 2,2-dichloropropane	8.52	77	2712	0.58	ug/L	80
49) cis-1,2-dichloroethene	8.55	96	1403	0.49	ug/L #	28
52) methacrylonitrile	9.02	67	944	1.52	ug/L #	20
53) bromochloromethane	8.84	128	524	0.41	ug/L #	25
54) tetrahydrofuran	9.01	42	662	0.95	ug/L #	41
55) chloroform	8.89	83	2748	0.59	ug/L	76
59) 1,1,1-trichloroethane	9.13	97	2199	0.51	ug/L #	20
60) Cyclohexane	9.21	84	2367	0.62	ug/L #	20
61) Tert Amyl Alcohol	9.60	55	598	8.22	ug/L #	1
63) methylcyclohexane	10.56	83	2531	0.59	ug/L	82
64) epichlorohydrin	11.51	57	1309	7.08	ug/L	52
65) n-butyl alcohol	10.07	56	585	10.40	ug/L #	15
66) carbon tetrachloride	9.34	117	1027	0.28	ug/L	85

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123249.D
Acq On : 12 Jan 2012 11:52 am
Operator : conorl
Sample : IC5294-0.5
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 13 09:15:52 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:50:41 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
67) 1,1-dichloropropene	9.35	75	2037	0.56 ug/L	89
68) hexane	7.52	57	2647	0.82 ug/L #	60
69) 2,2,4-Trimethylpentane	9.59	57	4998	0.50 ug/L #	66
70) benzene	9.62	78	7448	0.73 ug/L	94
71) tert-amyl methyl ether	9.63	73	4213	0.57 ug/L	83
72) heptane	9.81	57	982	0.52 ug/L	92
74) 1,2-dichloroethane	9.67	62	1689	0.53 ug/L	82
75) trichloroethene	10.37	95	1654	0.63 ug/L #	70
77) tert-Amyl Ethyl Ether	10.51	87	1633	0.41 ug/L	61
80) 1,2-dichloropropane	10.61	63	575	0.22 ug/L	94
81) dibromomethane	10.82	93	743	0.56 ug/L	79
82) bromodichloromethane	10.92	83	1967	0.58 ug/L	90
84) cis-1,3-dichloropropene	11.45	75	2159	0.53 ug/L	77
87) toluene	11.85	92	7293	1.17 ug/L	83
88) isoamyl alcohol	11.71	55	888	9.82 ug/L #	21
89) trans-1,3-dichloropropene	12.10	75	1875	0.53 ug/L #	46
91) 1,1,2-trichloroethane	12.27	83	1004	0.63 ug/L #	38
94) tetrachloroethene	12.46	166	1743	0.59 ug/L	76
95) 1,3-dichloropropane	12.49	76	2010	0.61 ug/L	73
97) 3,3-Dimethyl-1-Butanol	12.70	69	511	3.11 ug/L #	1
98) dibromochloromethane	12.77	129	1323	0.53 ug/L	78
99) 1,2-dibromoethane	12.98	107	1133	0.58 ug/L #	67
100) chlorobenzene	13.44	112	5143	0.71 ug/L	87
101) 1,1,1,2-tetrachloroethane	13.49	131	1524	0.55 ug/L #	47
102) ethylbenzene	13.52	91	9826	0.80 ug/L	98
103) m,p-xylene	13.65	106	10351	2.14 ug/L	84
104) o-xylene	14.11	106	4147	0.86 ug/L	69
105) styrene	14.20	104	4952	0.63 ug/L	89
107) bromoform	14.41	173	1138	0.65 ug/L	75
108) cyclohexanone	14.68	55	2246	9.85 ug/L	89
111) isopropylbenzene	14.48	105	7862	0.65 ug/L	88
112) 1,1,2,2-tetrachloroethane	14.83	83	1581	0.62 ug/L	73
115) bromobenzene	14.97	156	2362	0.76 ug/L	85
116) n-propylbenzene	14.96	91	12150	0.86 ug/L	96
117) 4-Ethyltoluene	15.07	105	11796	1.04 ug/L	91
118) 2-chlorotoluene	15.14	126	1836	0.61 ug/L #	72
119) 4-chlorotoluene	15.25	91	8572	0.93 ug/L	79
120) 1,3,5-trimethylbenzene	15.12	105	10279	0.94 ug/L	85
121) tert-butylbenzene	15.51	119	6648	0.73 ug/L	95
122) pentachloroethane	15.60	167	1200	0.56 ug/L #	65
123) 1,2,4-trimethylbenzene	15.57	105	13033	1.23 ug/L	99
124) sec-butylbenzene	15.75	105	10167	0.72 ug/L	95
125) p-isopropyltoluene	15.88	119	8200	0.71 ug/L #	90
126) 1,3-dichlorobenzene	15.97	146	5424	0.91 ug/L	98
127) 1,4-dichlorobenzene	16.04	146	7200	1.14 ug/L	90
128) 1,2-dichlorobenzene	16.51	146	5190	0.88 ug/L	95
129) Benzyl Chloride	16.21	91	3175	0.63 ug/L #	80
131) 1,4-Diethylbenzene	16.32	119	5429	0.73 ug/L	89
132) n-butylbenzene	16.36	92	4865	0.75 ug/L #	79
133) hexachloroethane	16.77	201	1398	0.62 ug/L	89

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123249.D
Acq On : 12 Jan 2012 11:52 am
Operator : conorl
Sample : IC5294-0.5
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 13 09:15:52 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:50:41 2012
Response via : Initial Calibration

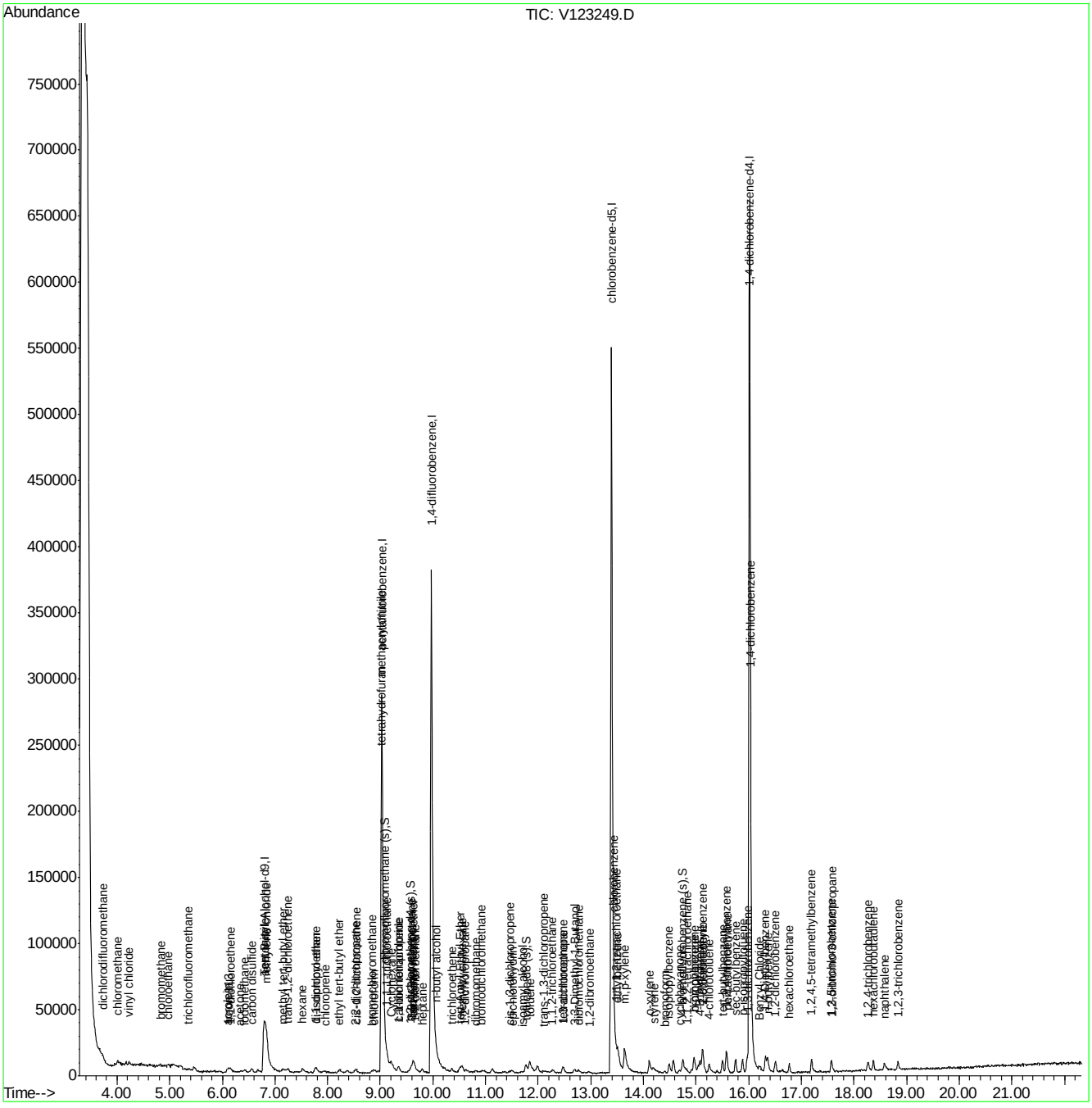
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
134) 1,2,4,5-tetramethylbenzene	17.20	119	6715	0.60 ug/L	96
135) 1,2-dibromo-3-chloropropan	17.58	75	615	1.27 ug/L #	1
136) 1,3,5-trichlorobenzene	17.57	180	4318	0.81 ug/L	93
137) 1,2,4-trichlorobenzene	18.27	180	3446	0.84 ug/L	88
138) hexachlorobutadiene	18.37	225	2207	0.73 ug/L	80
139) naphthalene	18.58	128	6770	1.06 ug/L	95
140) 1,2,3-trichlorobenzene	18.84	180	3021	0.88 ug/L	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123249.D
Acq On : 12 Jan 2012 11:52 am
Operator : conorl
Sample : IC5294-0.5
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 13 09:15:52 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:50:41 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 01/18/12 04:32

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123250.D
Acq On : 12 Jan 2012 12:23 pm
Operator : conorl
Sample : IC5294-5
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 13 10:03:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:48:33 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.79	65	123846	500.00	ug/L	0.00
4) pentafluorobenzene	9.03	168	344564	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	510418	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	479514	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	250033	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.08	113	14713	5.56	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 11.12%#			
58) 1,2-dichloroethane-d4 (s)	9.53	65	16494	5.47	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 10.94%#			
85) toluene-d8 (s)	11.73	98	57209	5.87	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 11.74%#			
109) 4-bromofluorobenzene (s)	14.72	95	24064	6.03	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 12.06%#			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	6.95	59	7716	26.75	ug/L	100
3) 1,4-dioxane	10.80	88	2496	115.87	ug/L #	23
13) chlorodifluoromethane	3.75	51	21004	5.96	ug/L	97
14) dichlorodifluoromethane	3.73	85	27615	5.54	ug/L	88
15) chloromethane	4.02	50	26652	5.25	ug/L	92
16) vinyl chloride	4.23	62	24499	5.39	ug/L	94
17) bromomethane	4.82	96	14574	5.69	ug/L	99
18) chloroethane	4.97	64	13204	5.55	ug/L	97
19) trichlorofluoromethane	5.37	101	29683	5.59	ug/L	98
20) Vinyl Bromide	5.28	106	14407	5.78	ug/L #	98
21) ethyl ether	5.77	74	6947	5.28	ug/L	92
22) Acetaldehyde	4.45	44	16343m	53.88	ug/L	
27) acrolein	6.05	56	20703	47.62	ug/L	90
28) freon 113	6.12	151	12647	5.70	ug/L	98
29) 1,1-dichloroethene	6.15	96	14244	5.69	ug/L	90
30) acetone	6.33	58	1544	8.24	ug/L #	16
31) iso-butyl alcohol	9.60	74	4582	51.49	ug/L #	60
32) allyl chloride	6.66	78	3491	7.02	ug/L #	64
33) acetonitrile	6.65	40	9841	47.93	ug/L #	16
34) iodomethane	6.42	142	27142	5.53	ug/L	94
35) carbon disulfide	6.55	76	51795	5.82	ug/L	99
36) methylene chloride	6.83	84	17571	6.00	ug/L	91
37) methyl acetate	6.80	43	4633	3.30	ug/L #	62
38) methyl tert butyl ether	7.17	73	40305	5.29	ug/L	97
39) trans-1,2-dichloroethene	7.23	96	15707	5.75	ug/L	92
40) di-isopropyl ether	7.75	45	52985	5.10	ug/L	96
42) 1,1-dichloroethane	7.76	63	28776	5.42	ug/L	98
43) chloroprene	7.90	53	25112	5.60	ug/L	92
44) acrylonitrile	7.29	53	17114	25.54	ug/L	97
46) ethyl tert-butyl ether	8.21	59	46275	5.01	ug/L	97
47) ethyl acetate	8.67	45	1332	3.79	ug/L #	1
48) 2,2-dichloropropane	8.49	77	27120	5.72	ug/L	96
49) cis-1,2-dichloroethene	8.53	96	15718	5.36	ug/L	95

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123250.D
Acq On : 12 Jan 2012 12:23 pm
Operator : conorl
Sample : IC5294-5
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 13 10:03:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:48:33 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) propionitrile	8.69	54	10980	43.39	ug/L		88
52) methacrylonitrile	8.86	67	2114	3.04	ug/L	#	32
53) bromochloromethane	8.84	128	6964	5.33	ug/L		81
54) tetrahydrofuran	8.91	42	3989	5.59	ug/L		81
55) chloroform	8.88	83	26735	5.58	ug/L		97
56) tert-Butyl Formate	8.93	59	11952	5.00	ug/L	#	99
59) 1,1,1-trichloroethane	9.12	97	25471	5.74	ug/L		86
60) Cyclohexane	9.21	84	22166	5.67	ug/L		65
61) Tert Amyl Alcohol	9.50	55	1552	19.69	ug/L	#	70
63) methylcyclohexane	10.56	83	25251	5.69	ug/L	#	65
64) epichlorohydrin	11.38	57	5453	28.36	ug/L		75
65) n-butyl alcohol	10.27	56	13085	213.41	ug/L		86
66) carbon tetrachloride	9.34	117	22070	5.69	ug/L		95
67) 1,1-dichloropropene	9.33	75	21714	5.78	ug/L		94
68) hexane	7.51	57	19995	6.01	ug/L		95
69) 2,2,4-Trimethylpentane	9.58	57	59198	5.73	ug/L		96
70) benzene	9.60	78	58196	5.44	ug/L		97
71) tert-amyl methyl ether	9.62	73	39611	5.04	ug/L		97
72) heptane	9.78	57	11619	5.99	ug/L		95
73) isopropyl acetate	9.55	61	2342m	2.73	ug/L		
74) 1,2-dichloroethane	9.62	62	18003	5.35	ug/L		99
75) trichloroethene	10.35	95	16076	5.89	ug/L		96
76) Ethyl Acrylate	10.34	99	1758	4.54	ug/L	#	86
77) tert-Amyl Ethyl Ether	10.50	87	20726	4.87	ug/L		92
78) 2-chloroethyl vinyl ether	11.23	63	6918	23.87	ug/L		98
79) methyl methacrylate	10.71	100	1819	3.92	ug/L	#	19
80) 1,2-dichloropropane	10.61	63	14875	5.34	ug/L		95
81) dibromomethane	10.79	93	7426	5.34	ug/L		85
82) bromodichloromethane	10.91	83	19239	5.38	ug/L		92
84) cis-1,3-dichloropropene	11.42	75	22499	5.25	ug/L		94
86) 4-methyl-2-pentanone	11.55	58	3603	4.45	ug/L	#	48
87) toluene	11.81	92	35806	5.49	ug/L		97
88) isoamyl alcohol	11.59	55	8462	85.88	ug/L	#	80
89) trans-1,3-dichloropropene	12.05	75	19997	5.40	ug/L		80
90) ethyl methacrylate	12.07	69	12700	4.56	ug/L	#	89
91) 1,1,2-trichloroethane	12.25	83	8896	5.26	ug/L		95
92) 2-hexanone	12.58	58	4121	5.77	ug/L	#	45
94) tetrachloroethene	12.45	166	16957	5.43	ug/L		98
95) 1,3-dichloropropane	12.46	76	17620	5.02	ug/L		93
96) butyl acetate	12.62	73	3125	6.14	ug/L	#	35
97) 3,3-Dimethyl-1-Butanol	12.66	69	7825	43.90	ug/L	#	85
98) dibromochloromethane	12.75	129	13574	5.10	ug/L		89
99) 1,2-dibromoethane	12.93	107	10161	4.92	ug/L		98
100) chlorobenzene	13.43	112	39983	5.27	ug/L		99
101) 1,1,1,2-tetrachloroethane	13.49	131	14988	5.11	ug/L		94
102) ethylbenzene	13.50	91	69688	5.38	ug/L		99
103) m,p-xylene	13.63	106	56321	11.15	ug/L		100
104) o-xylene	14.10	106	27422	5.41	ug/L		96
105) styrene	14.13	104	41619	5.00	ug/L		99
107) bromoform	14.39	173	8750	4.67	ug/L		91

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123250.D
Acq On : 12 Jan 2012 12:23 pm
Operator : conorl
Sample : IC5294-5
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 13 10:03:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:48:33 2012
Response via : Initial Calibration

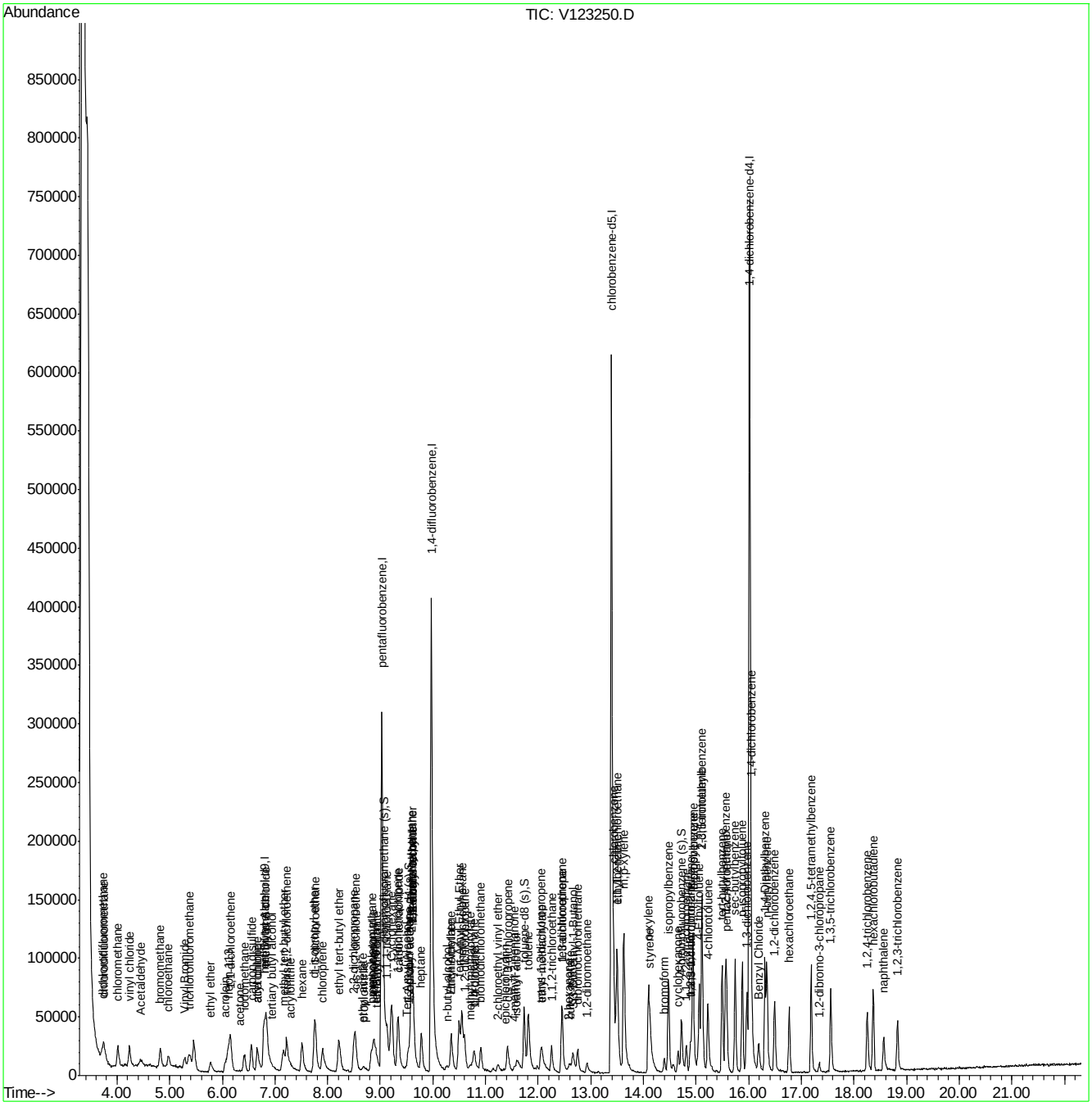
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
108) cyclohexanone	14.66	55	12675	52.77 ug/L	97
111) isopropylbenzene	14.47	105	73297	5.76 ug/L	98
112) 1,1,2,2-tetrachloroethane	14.82	83	14868	5.51 ug/L	91
113) trans-1,4-dichloro-2-buten	14.89	53	3959	5.16 ug/L #	1
114) 1,2,3-trichloropropane	14.90	110	3670	5.54 ug/L	97
115) bromobenzene	14.94	156	17895	5.45 ug/L	97
116) n-propylbenzene	14.94	91	85833	5.80 ug/L	96
117) 4-Ethyltoluene	15.06	105	64727	5.39 ug/L	94
118) 2-chlorotoluene	15.11	126	17777	5.65 ug/L	95
119) 4-chlorotoluene	15.23	91	56797	5.95 ug/L	96
120) 1,3,5-trimethylbenzene	15.11	105	68744	6.10 ug/L	98
121) tert-butylbenzene	15.50	119	55506	5.85 ug/L	98
122) pentachloroethane	15.59	167	11846	5.17 ug/L	93
123) 1,2,4-trimethylbenzene	15.56	105	64554	5.86 ug/L	99
124) sec-butylbenzene	15.74	105	90148	6.17 ug/L	98
125) p-isopropyltoluene	15.88	119	71605	5.93 ug/L	97
126) 1,3-dichlorobenzene	15.96	146	35271	5.62 ug/L	97
127) 1,4-dichlorobenzene	16.05	146	39978	6.09 ug/L	99
128) 1,2-dichlorobenzene	16.49	146	35005	5.66 ug/L	98
129) Benzyl Chloride	16.19	91	26225	4.84 ug/L	98
131) 1,4-Diethylbenzene	16.31	119	42941	5.46 ug/L	97
132) n-butylbenzene	16.35	92	39474	5.85 ug/L	98
133) hexachloroethane	16.77	201	12916	5.43 ug/L	98
134) 1,2,4,5-tetramethylbenzene	17.19	119	60399	5.06 ug/L	96
135) 1,2-dibromo-3-chloropropan	17.34	75	2650	5.13 ug/L	88
136) 1,3,5-trichlorobenzene	17.56	180	31324	5.54 ug/L	98
137) 1,2,4-trichlorobenzene	18.25	180	23116	5.29 ug/L	97
138) hexachlorobutadiene	18.36	225	18359	5.77 ug/L	94
139) naphthalene	18.57	128	34570	5.03 ug/L	96
140) 1,2,3-trichlorobenzene	18.83	180	19059	5.23 ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123250.D
Acq On : 12 Jan 2012 12:23 pm
Operator : conorl
Sample : IC5294-5
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 13 10:03:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:48:33 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	VV5294-IC5294	**Method:**	SW846 8260B
Lab FileID:	V123250.D	**Analyst approved:**	01/13/12 10:11 Yunxia Chen
Injection Time:	01/12/12 12:23	**Supervisor approved:**	01/18/12 04:32 Kanya Veerawat

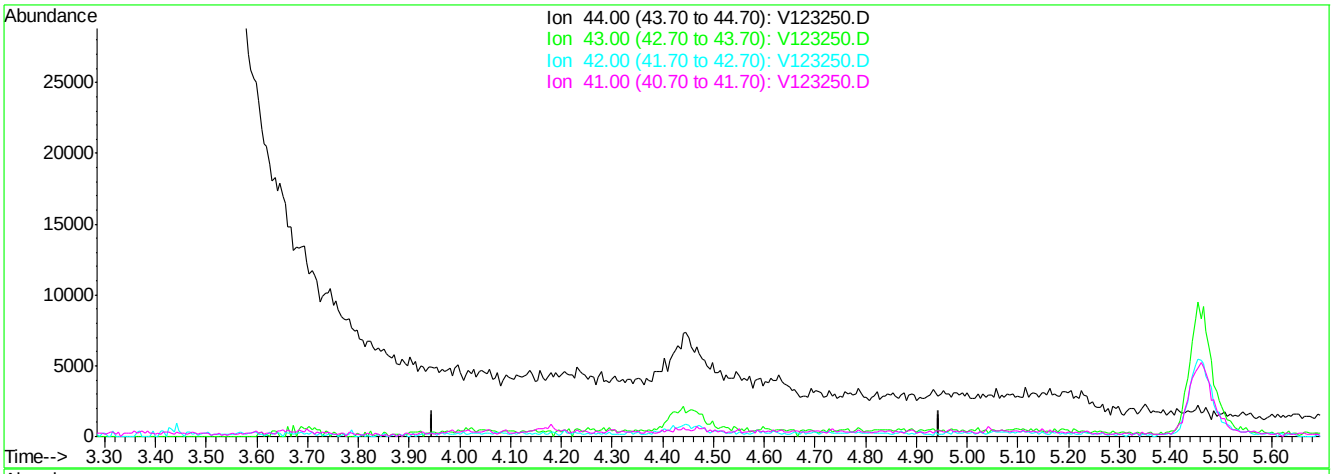
Parameter	CAS	Sig#	R.T. (min.)	Reason
Acetaldehyde	75-07-0		4.45	Missed peak
Isopropyl Acetate	108-21-4		9.55	Overlapping peak

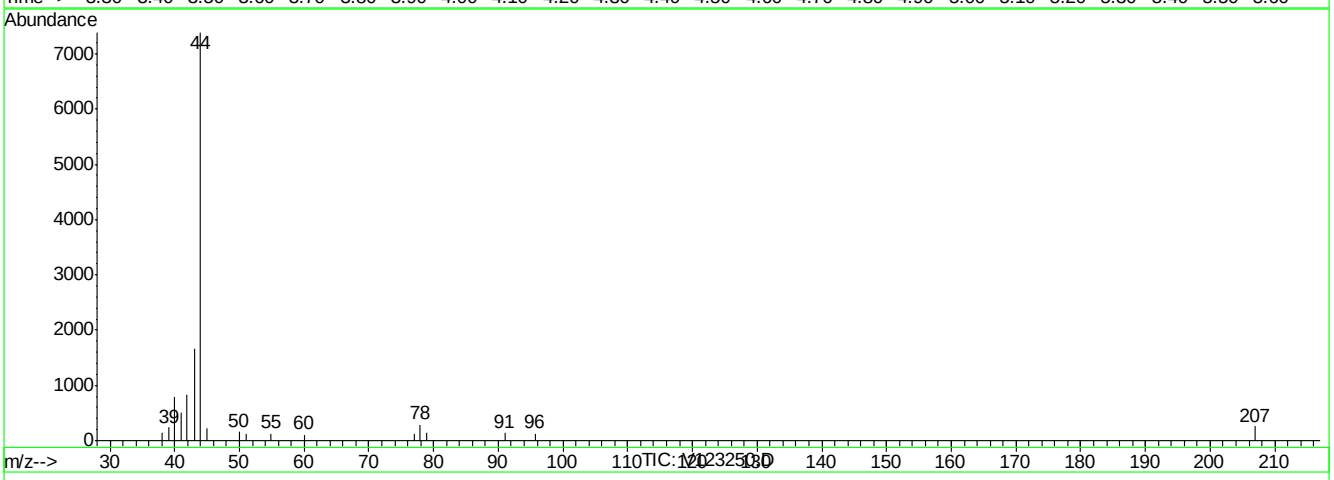
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123250.D Vial: 5
Acq On : 12 Jan 2012 12:23 pm Operator: conorl
Sample : IC5294-5 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 08:48:37 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 08:48:33 2012
Response via : Multiple Level Calibration





(22) Acetaldehyde

4.45min 0.00ug/L

response 0

Ion	Exp%	Act%
44.00	100	0.00
43.00	50.90	0.00#
42.00	15.60	0.00#
41.00	7.80	0.00#

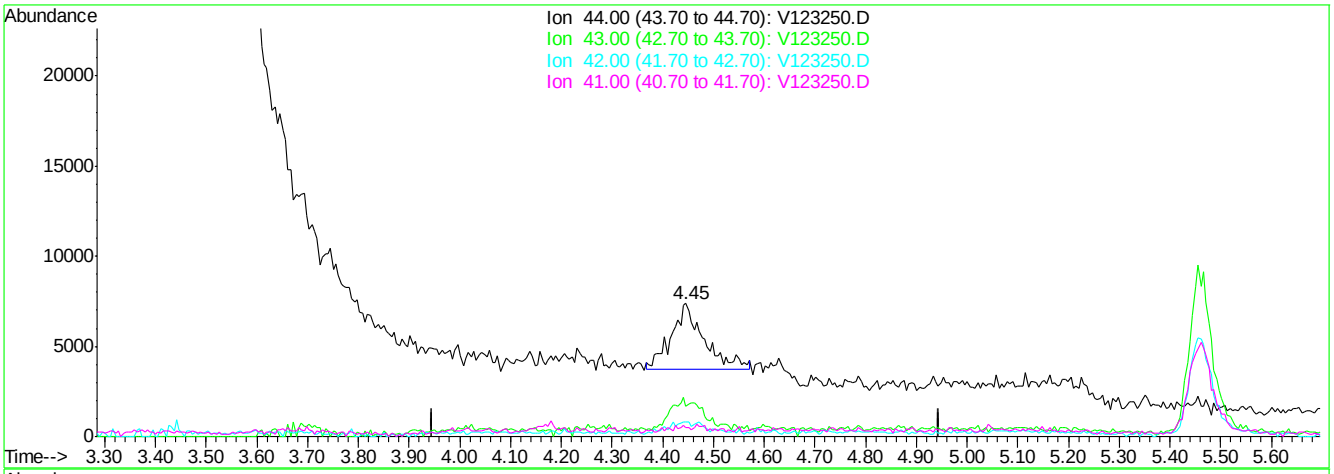
V123250.D MVS5294.M Fri Jan 13 08:49:47 2012 RPT1

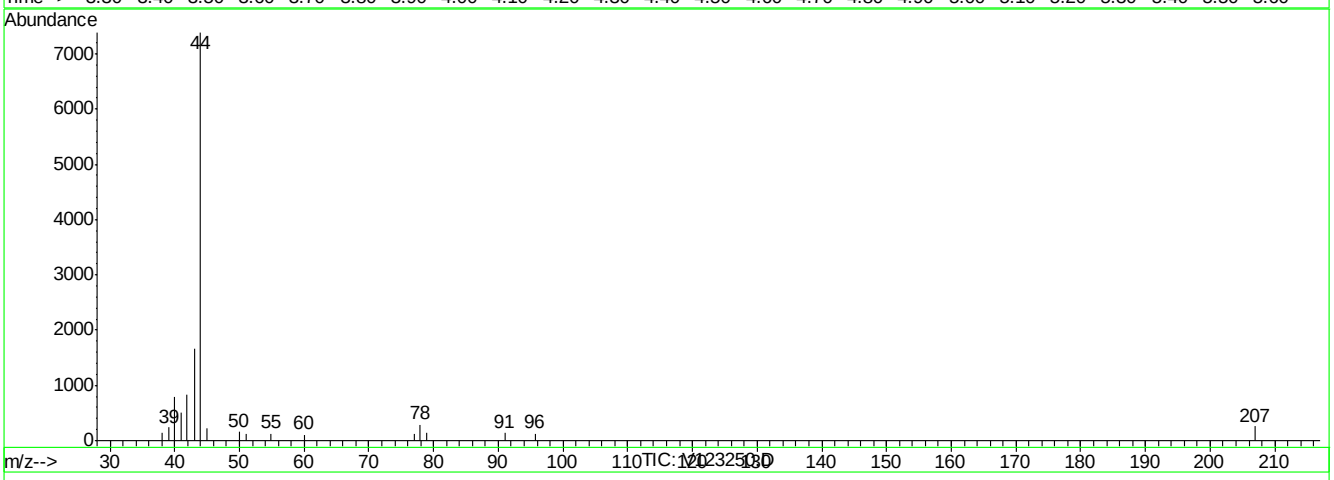
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123250.D Vial: 5
Acq On : 12 Jan 2012 12:23 pm Operator: conorl
Sample : IC5294-5 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 09:16:01 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 09:10:39 2012
Response via : Multiple Level Calibration





(22) Acetaldehyde

4.45min 53.88ug/L m

response 16343

Ion	Exp%	Act%
44.00	100	100
43.00	50.90	22.50#
42.00	15.60	11.31
41.00	7.80	7.00

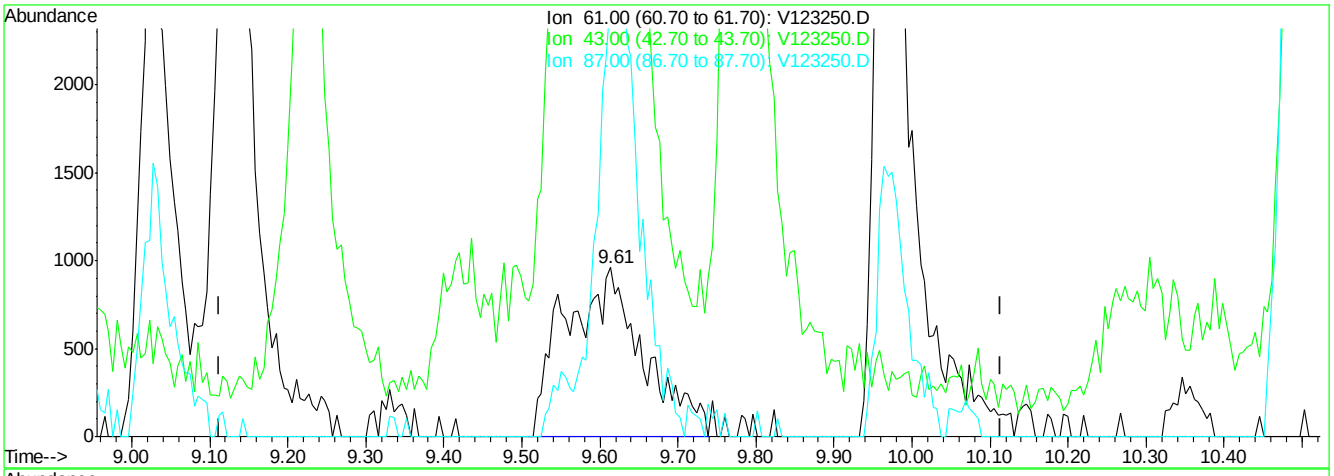
V123250.D MVS5294.M Fri Jan 13 09:16:26 2012 RPT1

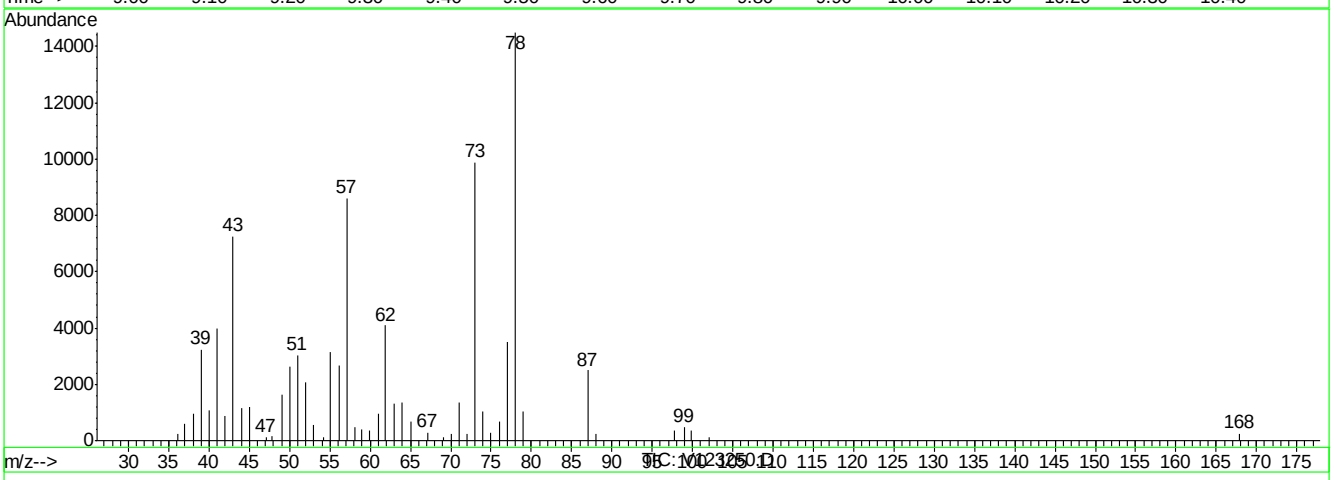
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123250.D Vial: 5
Acq On : 12 Jan 2012 12:23 pm Operator: conorl
Sample : IC5294-5 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 09:16:01 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 10:03:04 2012
Response via : Multiple Level Calibration





(73) isopropyl acetate

9.61min 7.72ug/L

response 6633

Ion	Exp%	Act%
61.00	100	100
43.00	0.00	605.26#
87.00	48.00	149.96#
0.00	0.00	0.00

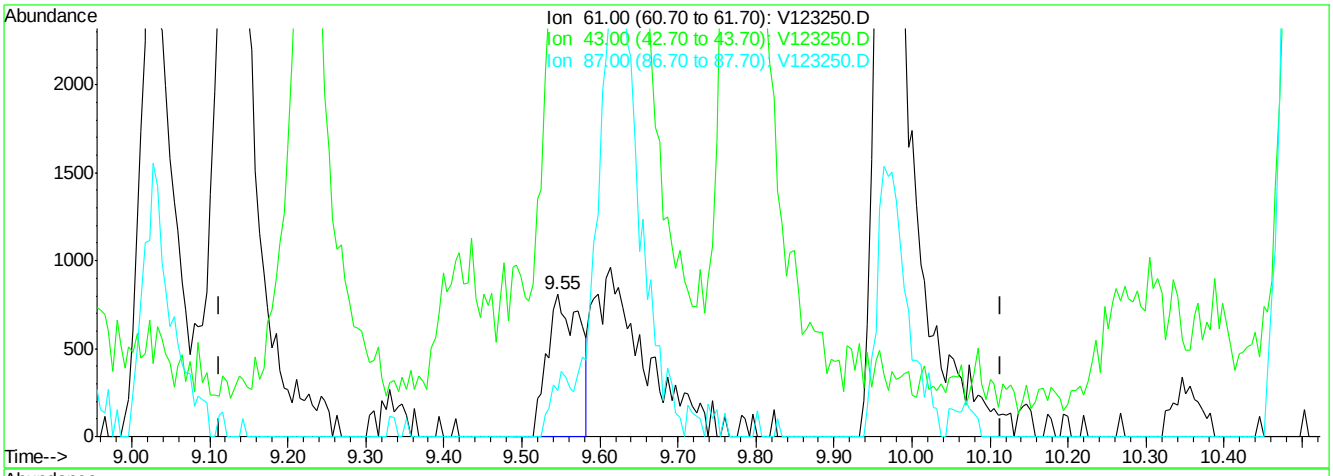
V123250.D MVS5294.M Fri Jan 13 10:03:50 2012 RPT1

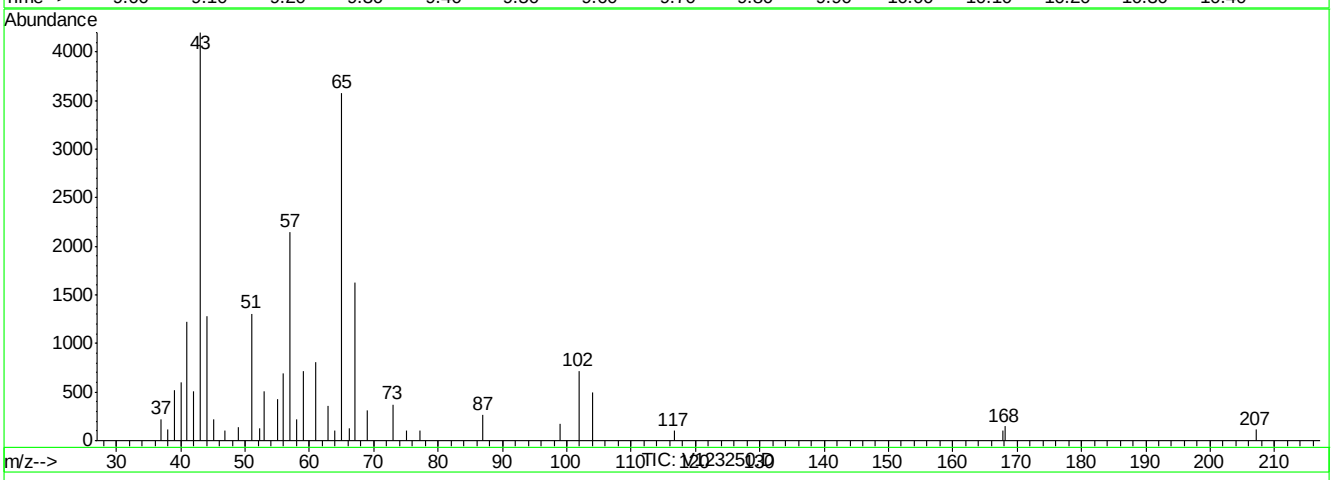
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123250.D Vial: 5
Acq On : 12 Jan 2012 12:23 pm Operator: conorl
Sample : IC5294-5 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 09:16:01 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 10:03:04 2012
Response via : Multiple Level Calibration





(73) isopropyl acetate

9.55min 2.73ug/L m

response 2342

Ion	Exp%	Act%
61.00	100	100
43.00	0.00	1714.22#
87.00	48.00	424.72#
0.00	0.00	0.00

V123250.D MVS5294.M Fri Jan 13 10:04:00 2012 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 01/18/12 04:32

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123251.D
Acq On : 12 Jan 2012 12:53 pm
Operator : conorl
Sample : IC5294-10
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 13 10:04:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:40:19 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.79	65	121823	500.00	ug/L	0.00
4) pentafluorobenzene	9.03	168	345561	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	517670	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	495538	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	255086	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.08	113	27278	10.35	ug/L	0.01
Spiked Amount 50.000	Range 67 - 131		Recovery = 20.70%#			
58) 1,2-dichloroethane-d4 (s)	9.52	65	30233	10.01	ug/L	0.02
Spiked Amount 50.000	Range 66 - 130		Recovery = 20.02%#			
85) toluene-d8 (s)	11.73	98	100272	10.18	ug/L	0.02
Spiked Amount 50.000	Range 76 - 125		Recovery = 20.36%#			
109) 4-bromofluorobenzene (s)	14.71	95	40234	9.70	ug/L	0.01
Spiked Amount 50.000	Range 53 - 142		Recovery = 19.40%#			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	6.94	59	14413	51.00	ug/L	100
3) 1,4-dioxane	10.75	88	5100	238.46	ug/L #	98
13) chlorodifluoromethane	3.75	51	35937	10.21	ug/L	98
14) dichlorodifluoromethane	3.74	85	54555	11.18	ug/L	97
15) chloromethane	4.01	50	54003	10.77	ug/L	98
16) vinyl chloride	4.24	62	47987	10.68	ug/L	99
17) bromomethane	4.82	96	28474	11.40	ug/L	97
18) chloroethane	4.97	64	25907	11.10	ug/L	96
19) trichlorofluoromethane	5.38	101	56570	10.78	ug/L	98
20) Vinyl Bromide	5.28	106	24312	9.65	ug/L	91
21) ethyl ether	5.76	74	12751	9.57	ug/L	84
22) Acetaldehyde	4.45	44	31945	106.35	ug/L	95
27) acrolein	6.03	56	43602	100.00	ug/L	94
28) freon 113	6.11	151	21339	9.49	ug/L	97
29) 1,1-dichloroethene	6.15	96	25370	10.14	ug/L	94
30) acetone	6.33	58	2167	11.99	ug/L #	20
31) iso-butyl alcohol	9.59	74	9073	102.09	ug/L #	72
32) allyl chloride	6.66	78	5361	10.95	ug/L #	57
33) acetonitrile	6.67	40	19878	95.70	ug/L	98
34) iodomethane	6.41	142	48746	9.89	ug/L	98
35) carbon disulfide	6.55	76	90050	10.10	ug/L	97
36) methylene chloride	6.83	84	31135	10.76	ug/L	88
37) methyl acetate	6.77	43	11280	7.63	ug/L #	77
38) methyl tert butyl ether	7.16	73	77791	10.23	ug/L	98
39) trans-1,2-dichloroethene	7.21	96	26673	9.68	ug/L	92
40) di-isopropyl ether	7.75	45	104363	10.02	ug/L	99
41) 2-butanone	8.59	72	1360	6.35	ug/L #	8
42) 1,1-dichloroethane	7.76	63	53450	10.05	ug/L	99
43) chloroprene	7.88	53	42513	9.33	ug/L	97
44) acrylonitrile	7.23	53	30241	43.90	ug/L	90
45) vinyl acetate	7.98	86	2245m	7.11	ug/L	
46) ethyl tert-butyl ether	8.21	59	93051	10.06	ug/L	99
47) ethyl acetate	8.61	45	4243	12.68	ug/L #	33

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123251.D
Acq On : 12 Jan 2012 12:53 pm
Operator : conorl
Sample : IC5294-10
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 13 10:04:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:40:19 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2,2-dichloropropane	8.50	77	48842	10.34	ug/L		98
49) cis-1,2-dichloroethene	8.52	96	29919	10.22	ug/L		89
50) propionitrile	8.63	54	23626	91.51	ug/L		93
51) methyl acrylate	8.77	85	992m	4.28	ug/L		
52) methacrylonitrile	8.83	67	5705	7.83	ug/L		87
53) bromochloromethane	8.82	128	13023	9.91	ug/L		96
54) tetrahydrofuran	8.91	42	7631	10.85	ug/L		97
55) chloroform	8.87	83	48077	10.01	ug/L		95
56) tert-Butyl Formate	8.92	59	24458	10.26	ug/L	#	93
59) 1,1,1-trichloroethane	9.13	97	44755	10.08	ug/L		89
60) Cyclohexane	9.21	84	39587	10.12	ug/L		71
61) Tert Amyl Alcohol	9.47	55	3414	41.75	ug/L	#	65
63) methylcyclohexane	10.55	83	43619	9.61	ug/L		91
64) epichlorohydrin	11.34	57	9560	48.79	ug/L		90
65) n-butyl alcohol	10.20	56	31279	503.75	ug/L		83
66) carbon tetrachloride	9.35	117	39247	9.98	ug/L		96
67) 1,1-dichloropropene	9.33	75	38342	10.08	ug/L		94
68) hexane	7.51	57	33422	9.88	ug/L		92
69) 2,2,4-Trimethylpentane	9.59	57	103248	9.81	ug/L		96
70) benzene	9.59	78	108714	10.03	ug/L		93
71) tert-amyl methyl ether	9.62	73	79243	9.93	ug/L		99
72) heptane	9.78	57	19002	9.59	ug/L		97
73) isopropyl acetate	9.53	61	5368m	6.85	ug/L		
74) 1,2-dichloroethane	9.61	62	34297	10.06	ug/L		95
75) trichloroethene	10.34	95	27059	9.72	ug/L		96
76) Ethyl Acrylate	10.35	99	2872	6.84	ug/L	#	89
77) tert-Amyl Ethyl Ether	10.49	87	41540	9.54	ug/L		97
78) 2-chloroethyl vinyl ether	11.21	63	12617	41.45	ug/L		93
79) methyl methacrylate	10.69	100	4120	8.49	ug/L	#	40
80) 1,2-dichloropropane	10.60	63	28094	9.93	ug/L		91
81) dibromomethane	10.77	93	14076	9.97	ug/L		89
82) bromodichloromethane	10.91	83	36315	10.02	ug/L		99
84) cis-1,3-dichloropropene	11.41	75	42563	9.74	ug/L		95
86) 4-methyl-2-pentanone	11.53	58	8362	10.24	ug/L	#	1
87) toluene	11.81	92	65195	9.81	ug/L		95
88) isoamyl alcohol	11.58	55	17440	169.13	ug/L		93
89) trans-1,3-dichloropropene	12.04	75	36952	9.79	ug/L		93
90) ethyl methacrylate	12.06	69	27999	9.88	ug/L		99
91) 1,1,2-trichloroethane	12.25	83	17476	10.23	ug/L		98
92) 2-hexanone	12.53	58	6498	8.75	ug/L	#	54
94) tetrachloroethene	12.45	166	30248	9.24	ug/L		94
95) 1,3-dichloropropane	12.45	76	34375	9.36	ug/L		92
96) butyl acetate	12.58	73	5453	10.46	ug/L		57
97) 3,3-Dimethyl-1-Butanol	12.66	69	17201	91.87	ug/L		91
98) dibromochloromethane	12.74	129	25609	9.16	ug/L		98
99) 1,2-dibromoethane	12.92	107	20130	9.31	ug/L		93
100) chlorobenzene	13.43	112	74412	9.38	ug/L		98
101) 1,1,1,2-tetrachloroethane	13.49	131	28399	9.21	ug/L		98
102) ethylbenzene	13.50	91	126415	9.31	ug/L		100
103) m,p-xylene	13.62	106	100394	19.04	ug/L		93

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123251.D
Acq On : 12 Jan 2012 12:53 pm
Operator : conorl
Sample : IC5294-10
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 13 10:04:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:40:19 2012
Response via : Initial Calibration

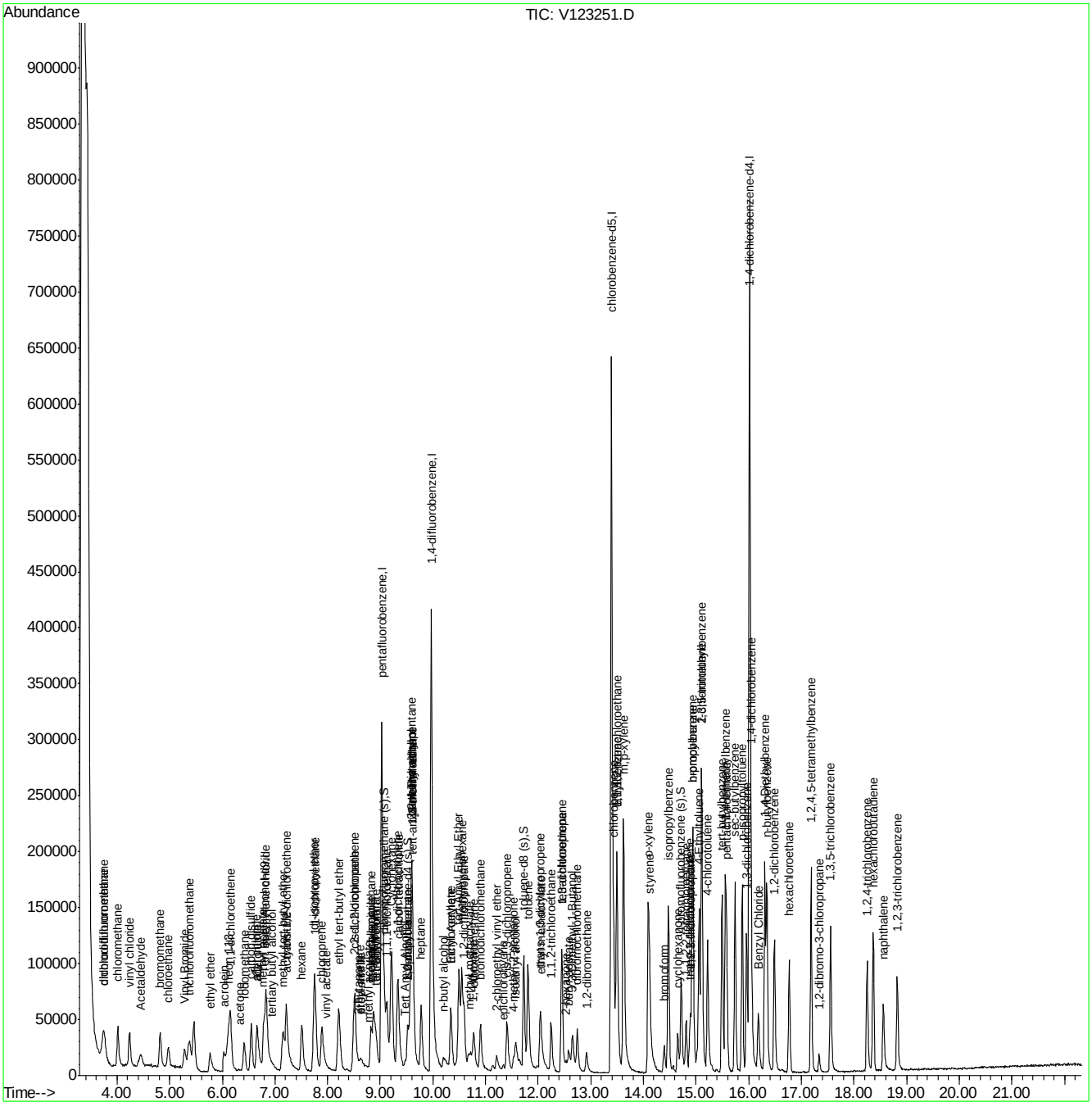
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
104) o-xylene	14.09	106	49551	9.33	ug/L		97
105) styrene	14.12	104	79413	9.06	ug/L		98
107) bromoform	14.39	173	18274	9.32	ug/L		93
108) cyclohexanone	14.65	55	23527	93.56	ug/L		92
111) isopropylbenzene	14.47	105	132387	10.24	ug/L		99
112) 1,1,2,2-tetrachloroethane	14.81	83	28064	10.24	ug/L		97
113) trans-1,4-dichloro-2-buten	14.88	53	8179	10.57	ug/L	#	51
114) 1,2,3-trichloropropane	14.90	110	7004	10.46	ug/L	#	75
115) bromobenzene	14.93	156	34120	10.22	ug/L		94
116) n-propylbenzene	14.94	91	154114	10.26	ug/L		98
117) 4-Ethyltoluene	15.06	105	119091	9.66	ug/L		95
118) 2-chlorotoluene	15.10	126	32008	9.98	ug/L		98
119) 4-chlorotoluene	15.22	91	99427	10.27	ug/L		99
120) 1,3,5-trimethylbenzene	15.11	105	123105	10.89	ug/L		96
121) tert-butylbenzene	15.50	119	97657	10.11	ug/L		98
122) pentachloroethane	15.58	167	23534	10.09	ug/L		94
123) 1,2,4-trimethylbenzene	15.56	105	115492	10.34	ug/L		99
124) sec-butylbenzene	15.74	105	151710	10.22	ug/L		99
125) p-isopropyltoluene	15.88	119	123383	10.02	ug/L		99
126) 1,3-dichlorobenzene	15.96	146	64325	10.05	ug/L		99
127) 1,4-dichlorobenzene	16.05	146	69062	10.40	ug/L		97
128) 1,2-dichlorobenzene	16.49	146	64867	10.36	ug/L		100
129) Benzyl Chloride	16.18	91	53457	9.59	ug/L		99
131) 1,4-Diethylbenzene	16.31	119	78497	9.72	ug/L		97
132) n-butylbenzene	16.35	92	68219	9.89	ug/L		97
133) hexachloroethane	16.77	201	23580	9.65	ug/L		98
134) 1,2,4,5-tetramethylbenzene	17.19	119	120838	9.91	ug/L		98
135) 1,2-dibromo-3-chloropropan	17.34	75	5329	10.13	ug/L		85
136) 1,3,5-trichlorobenzene	17.55	180	58813	10.25	ug/L		96
137) 1,2,4-trichlorobenzene	18.25	180	44419	9.94	ug/L		98
138) hexachlorobutadiene	18.36	225	33947	10.57	ug/L		97
139) naphthalene	18.56	128	70876	10.13	ug/L		99
140) 1,2,3-trichlorobenzene	18.82	180	37692	10.18	ug/L		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123251.D
Acq On : 12 Jan 2012 12:53 pm
Operator : conorl
Sample : IC5294-10
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 13 10:04:25 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:40:19 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	VV5294-IC5294	**Method:**	SW846 8260B
Lab FileID:	V123251.D	**Analyst approved:**	01/13/12 10:11 Yunxia Chen
Injection Time:	01/12/12 12:53	**Supervisor approved:**	01/18/12 04:32 Kanya Veerawat

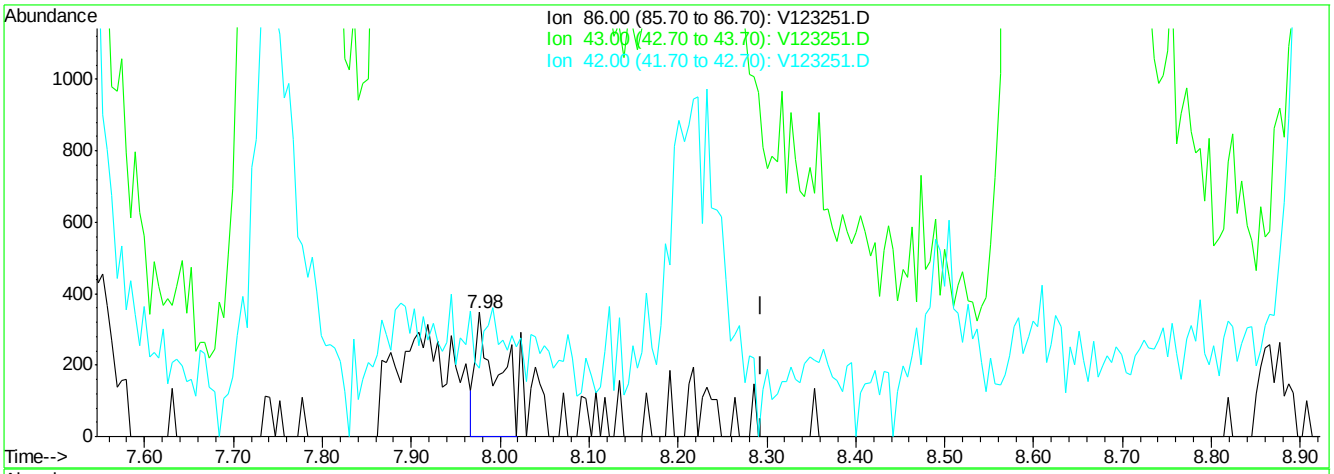
Parameter	CAS	Sig#	R.T. (min.)	Reason
Vinyl Acetate	108-05-4		7.98	Split peak
Methyl Acrylate	96-33-3		8.77	Missed peak
Isopropyl Acetate	108-21-4		9.53	Overlapping peak

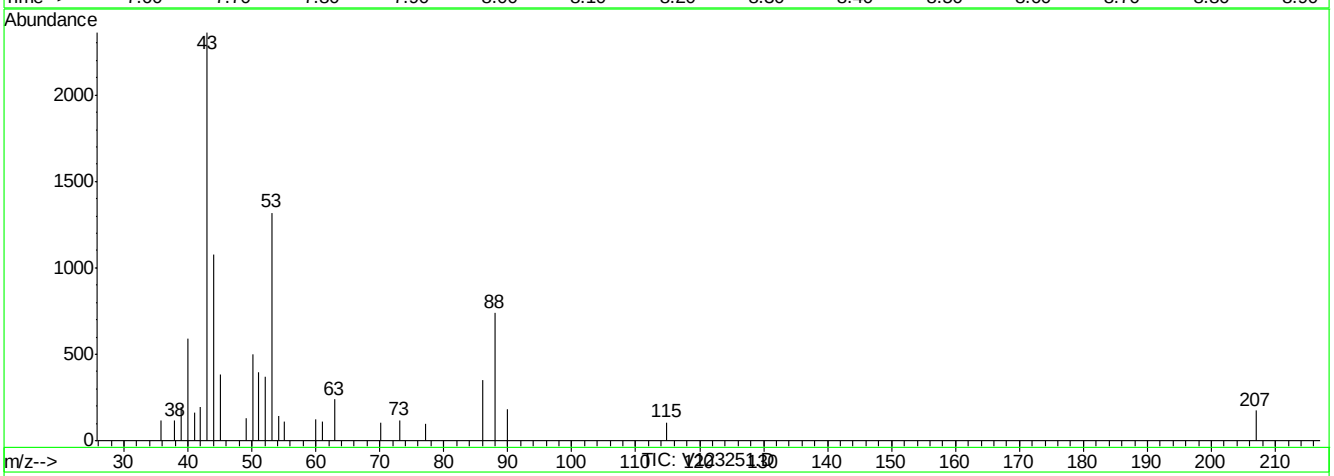
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123251.D Vial: 6
Acq On : 12 Jan 2012 12:53 pm Operator: conorl
Sample : IC5294-10 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 12 14:39:56 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 12 14:40:07 2012
Response via : Multiple Level Calibration





(45) vinyl acetate

7.98min 2.96ug/L

response 608

Ion	Exp%	Act%
86.00	100	100
43.00	1415.30	135.06#
42.00	112.40	0.00#
0.00	0.00	0.00

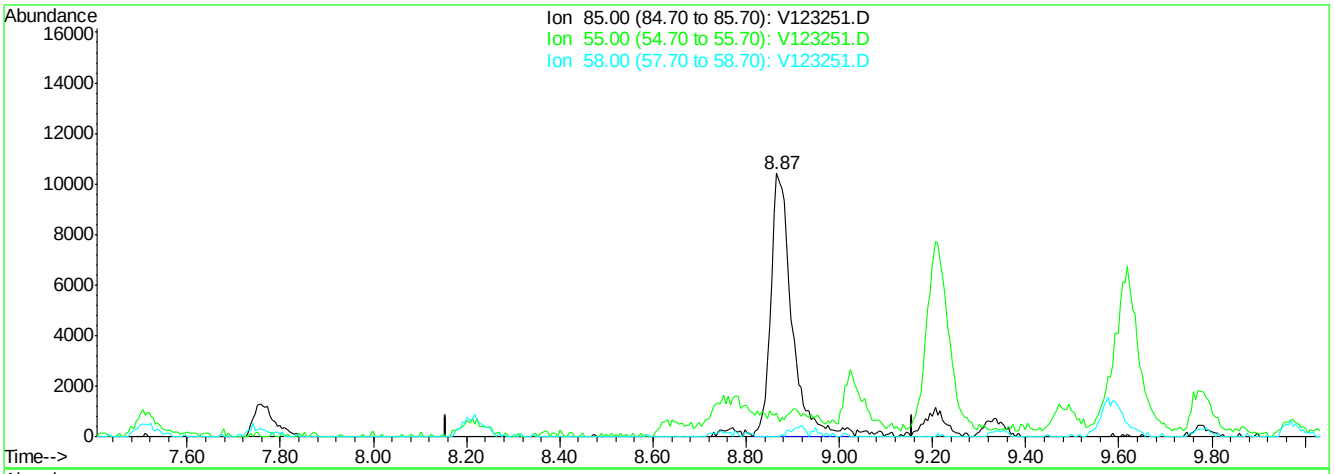
V123251.D MVS5294.M Thu Jan 12 14:42:41 2012 RPT1

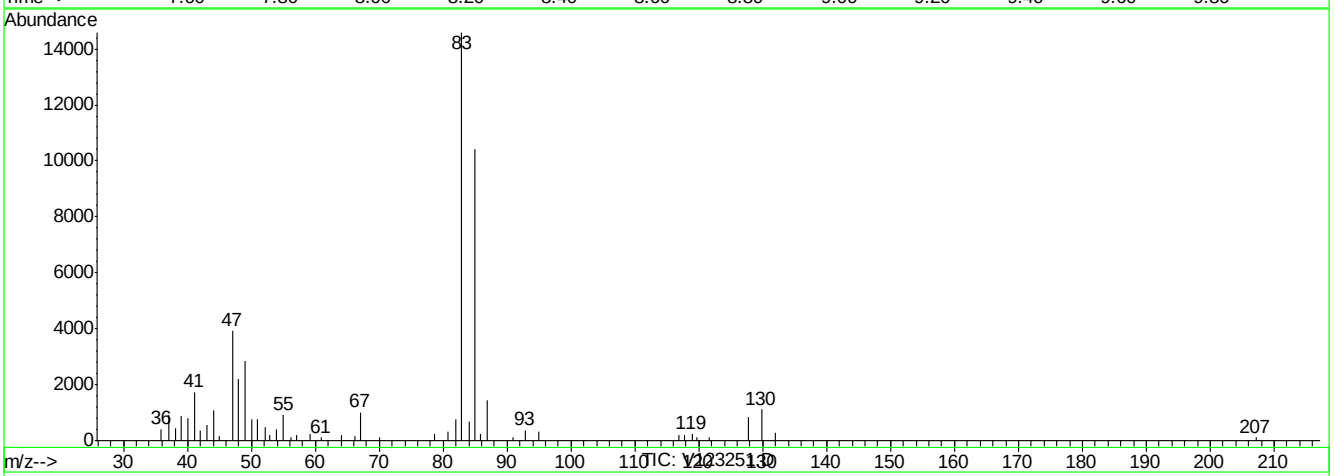
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123251.D Vial: 6
Acq On : 12 Jan 2012 12:53 pm Operator: conorl
Sample : IC5294-10 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 08:40:21 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 08:40:19 2012
Response via : Multiple Level Calibration





(51) methyl acrylate

8.87min 141.35ug/L

response 32744

Ion	Exp%	Act%
85.00	100	100
55.00	533.20	0.08#
58.00	50.90	0.00#
0.00	0.00	0.00

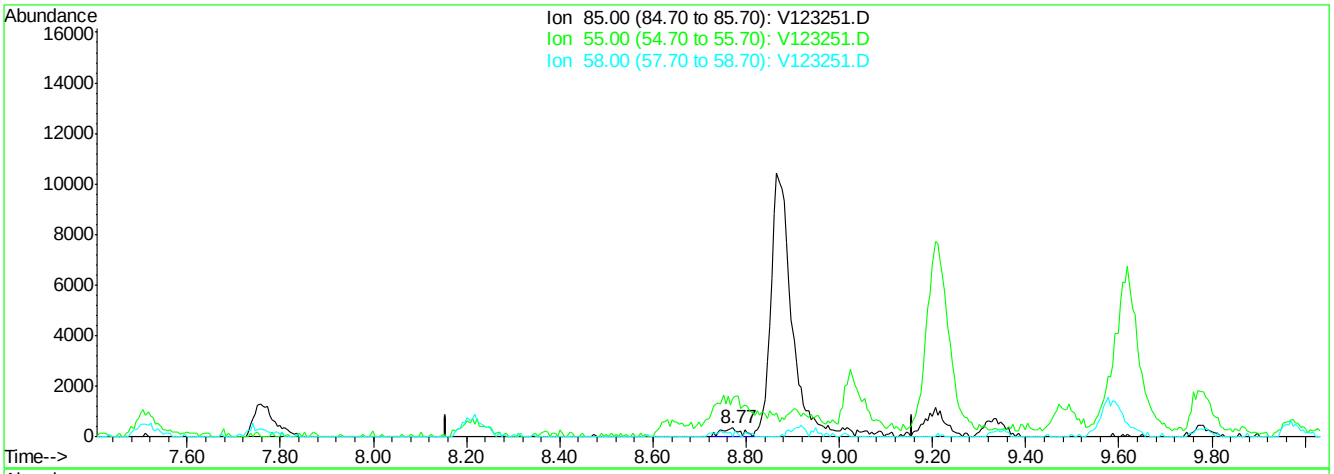
V123251.D MVS5294.M Fri Jan 13 08:41:35 2012 RPT1

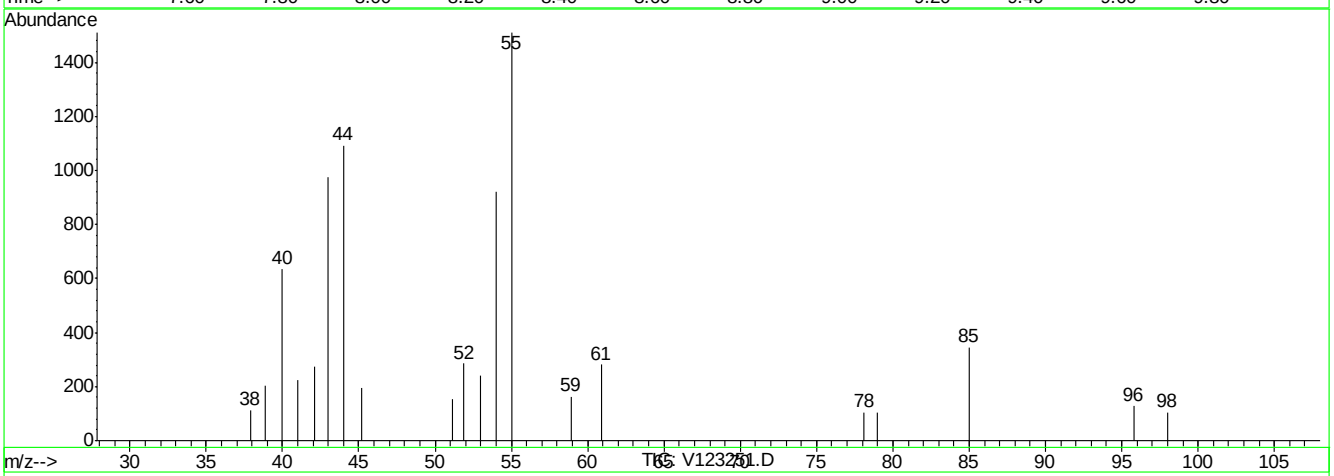
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123251.D Vial: 6
Acq On : 12 Jan 2012 12:53 pm Operator: conorl
Sample : IC5294-10 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 08:40:21 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 08:40:19 2012
Response via : Multiple Level Calibration





(51) methyl acrylate

8.77min 4.28ug/L m

response 992

Ion	Exp%	Act%
85.00	100	100
55.00	533.20	437.68#
58.00	50.90	0.00#
0.00	0.00	0.00

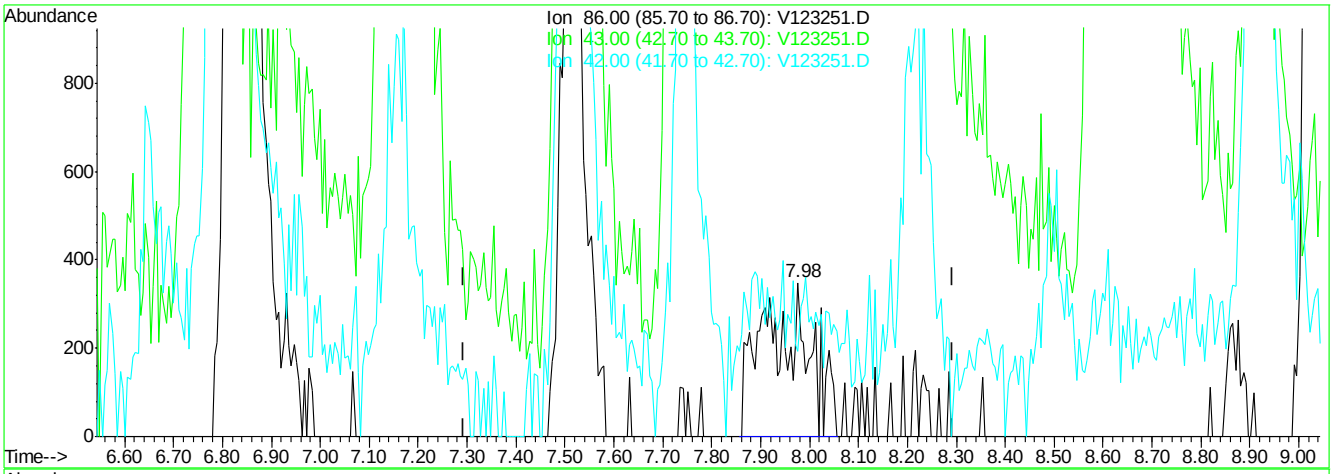
V123251.D MVS5294.M Fri Jan 13 08:42:37 2012 RPT1

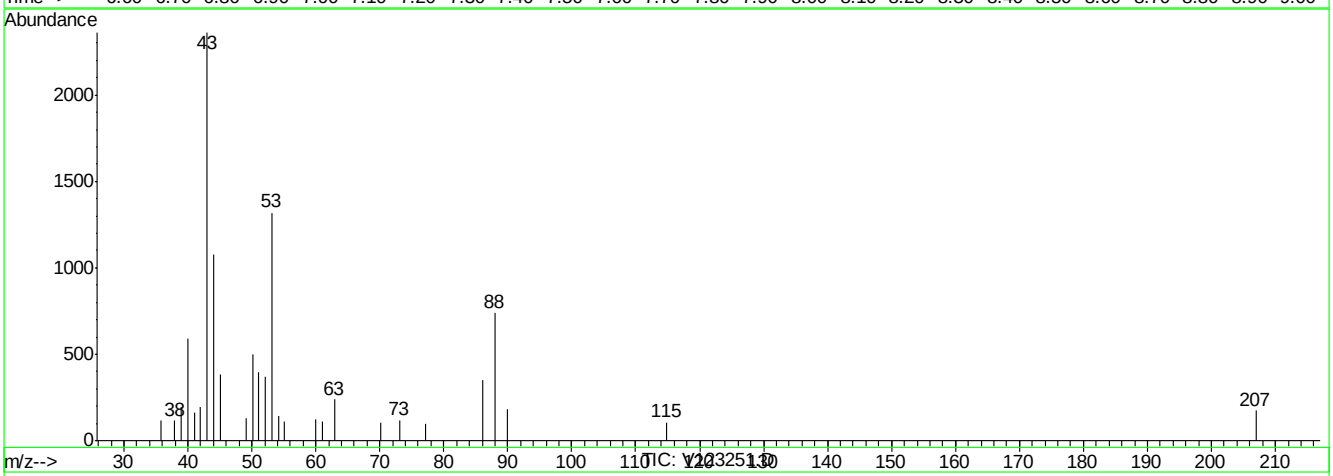
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123251.D Vial: 6
Acq On : 12 Jan 2012 12:53 pm Operator: conorl
Sample : IC5294-10 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 08:40:21 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 08:40:19 2012
Response via : Multiple Level Calibration





(45) vinyl acetate

7.98min 7.11ug/L m

response 2245

Ion	Exp%	Act%
86.00	100	100
43.00	1415.30	678.45#
42.00	112.40	55.46#
0.00	0.00	0.00

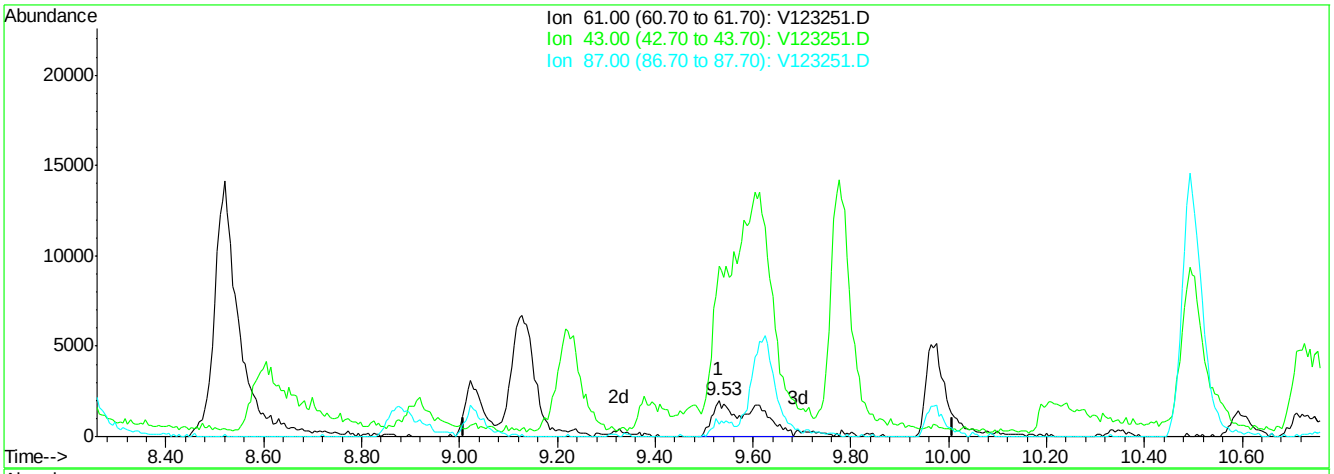
V123251.D MVS5294.M Fri Jan 13 08:43:08 2012 RPT1

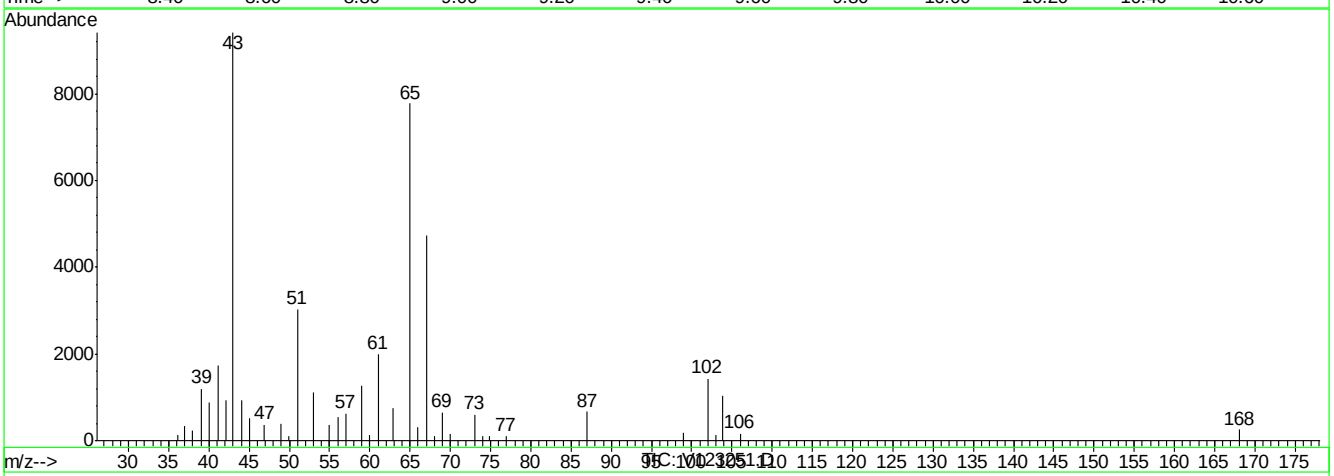
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123251.D Vial: 6
Acq On : 12 Jan 2012 12:53 pm Operator: conorl
Sample : IC5294-10 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 08:42:59 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 10:03:04 2012
Response via : Multiple Level Calibration





(73) isopropyl acetate

9.53min 15.58ug/L

response 12214

Ion	Exp%	Act%
61.00	100	100
43.00	0.00	0.00
87.00	48.00	20.71
0.00	0.00	0.00

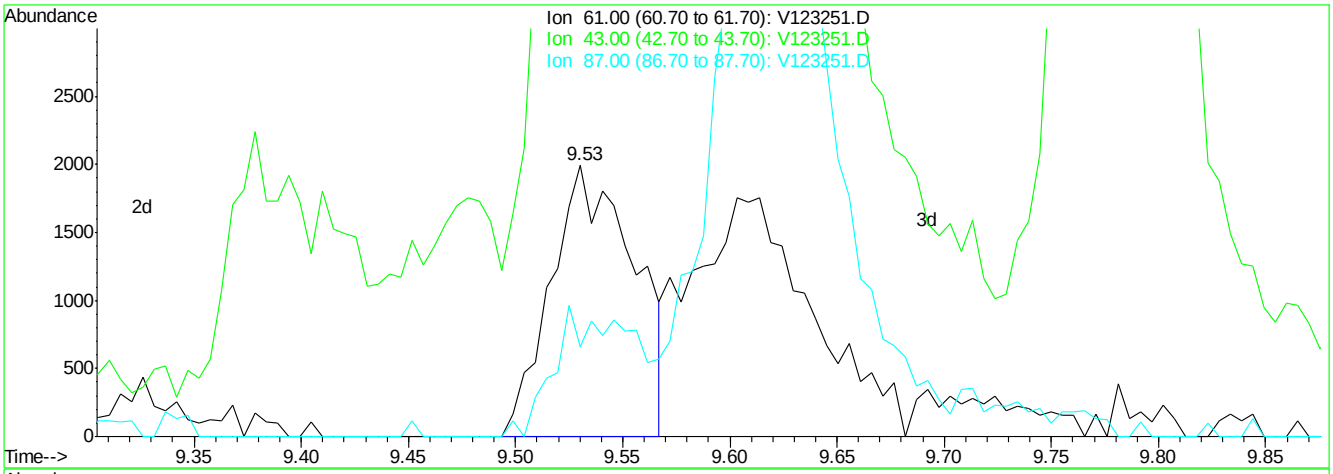
V123251.D MVS5294.M Fri Jan 13 10:04:21 2012 RPT1

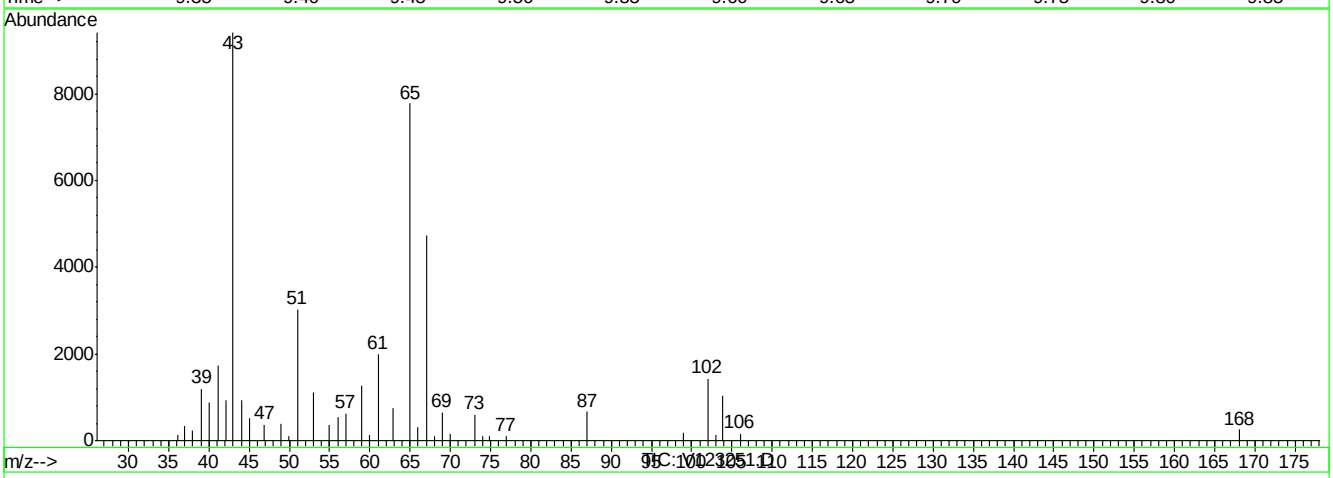
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123251.D Vial: 6
Acq On : 12 Jan 2012 12:53 pm Operator: conorl
Sample : IC5294-10 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 08:42:59 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 10:03:04 2012
Response via : Multiple Level Calibration





(73) isopropyl acetate

9.53min 6.85ug/L m

response 5368

Ion	Exp%	Act%
61.00	100	100
43.00	0.00	0.00
87.00	48.00	47.13
0.00	0.00	0.00

V123251.D MVS5294.M Fri Jan 13 10:04:30 2012 RPT1

Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 01/18/12 04:32

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123252.D
Acq On : 12 Jan 2012 1:24 pm
Operator : conorl
Sample : IC5294-20
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 13 08:38:47 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:36:32 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.79	65	123628	500.00	ug/L	0.00
4) pentafluorobenzene	9.03	168	343093	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	503318	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	453126	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	248684	50.00	ug/L	0.00

System Monitoring Compounds						
57) dibromofluoromethane (s)	9.07	113	133980	51.59	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 103.18%			
58) 1,2-dichloroethane-d4 (s)	9.50	65	152157	50.98	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 101.96%			
85) toluene-d8 (s)	11.71	98	502737	53.39	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 106.78%			
109) 4-bromofluorobenzene (s)	14.70	95	193306	51.28	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 102.56%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.93	59	27974	96.75	ug/L	100
3) 1,4-dioxane	10.73	88	10190	460.13	ug/L #	95
13) chlorodifluoromethane	3.75	51	71561	20.65	ug/L	98
14) dichlorodifluoromethane	3.74	85	105347	22.39	ug/L	99
15) chloromethane	4.02	50	102941	20.92	ug/L	98
16) vinyl chloride	4.24	62	93232	21.21	ug/L	98
17) bromomethane	4.82	96	54124	22.51	ug/L	99
18) chloroethane	4.97	64	49813	22.06	ug/L	97
19) trichlorofluoromethane	5.37	101	111179	21.83	ug/L	97
20) Vinyl Bromide	5.28	106	51032	20.54	ug/L	97
21) ethyl ether	5.76	74	26084	19.63	ug/L	90
22) Acetaldehyde	4.45	44	75070	275.44	ug/L	98
27) acrolein	6.00	56	87680	205.13	ug/L	99
28) freon 113	6.11	151	45220	20.35	ug/L	99
29) 1,1-dichloroethene	6.15	96	51069	20.75	ug/L	93
30) acetone	6.28	58	3954	22.82	ug/L #	70
31) iso-butyl alcohol	9.59	74	17851	203.09	ug/L #	85
32) allyl chloride	6.65	78	8877	17.76	ug/L #	85
33) acetonitrile	6.65	40	46707	236.95	ug/L	97
34) iodomethane	6.41	142	99362	20.40	ug/L	98
35) carbon disulfide	6.55	76	180067	20.47	ug/L	99
36) methylene chloride	6.83	84	59600	20.99	ug/L	98
37) methyl acetate	6.74	43	30195	20.76	ug/L #	66
38) methyl tert butyl ether	7.16	73	154178	20.55	ug/L	99
39) trans-1,2-dichloroethene	7.21	96	55593	20.42	ug/L	94
40) di-isopropyl ether	7.74	45	209442	20.34	ug/L	98
41) 2-butanone	8.56	72	3888	17.79	ug/L	94
42) 1,1-dichloroethane	7.76	63	106636	20.25	ug/L	97
43) chloroprene	7.88	53	88511	19.41	ug/L	98
44) acrylonitrile	7.20	53	69780	102.72	ug/L	95
45) vinyl acetate	7.86	86	4832	14.31	ug/L #	5
46) ethyl tert-butyl ether	8.21	59	184795	20.18	ug/L	99
47) ethyl acetate	8.55	45	8287	27.18	ug/L #	47

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123252.D
Acq On : 12 Jan 2012 1:24 pm
Operator : conorl
Sample : IC5294-20
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 13 08:38:47 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:36:32 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2,2-dichloropropane	8.49	77	97488	21.07	ug/L		95
49) cis-1,2-dichloroethene	8.51	96	58059	19.97	ug/L		91
50) propionitrile	8.60	54	51347	200.41	ug/L		98
51) methyl acrylate	8.69	85	3554	14.36	ug/L	#	56
52) methacrylonitrile	8.80	67	13009	17.41	ug/L		84
53) bromochloromethane	8.82	128	26873	20.81	ug/L		97
54) tetrahydrofuran	8.90	42	13604	19.31	ug/L		97
55) chloroform	8.87	83	96035	20.17	ug/L		96
56) tert-Butyl Formate	8.91	59	48552	20.70	ug/L	#	97
59) 1,1,1-trichloroethane	9.13	97	89258	20.34	ug/L		97
60) Cyclohexane	9.21	84	76345	19.54	ug/L		77
61) Tert Amyl Alcohol	9.46	55	7747	94.00	ug/L		87
63) methylcyclohexane	10.55	83	89549	20.39	ug/L		99
64) epichlorohydrin	11.32	57	18946	99.26	ug/L		97
65) n-butyl alcohol	10.16	56	67738	1169.61	ug/L		96
66) carbon tetrachloride	9.35	117	77585	20.40	ug/L		95
67) 1,1-dichloropropene	9.33	75	74734	20.29	ug/L		98
68) hexane	7.51	57	68331	21.03	ug/L		92
69) 2,2,4-Trimethylpentane	9.59	57	210552	20.77	ug/L		96
70) benzene	9.58	78	216764	20.76	ug/L		99
71) tert-amyl methyl ether	9.61	73	161363	21.08	ug/L		99
72) heptane	9.77	57	39581	20.72	ug/L		98
73) isopropyl acetate	9.52	61	16478	22.21	ug/L	#	91
74) 1,2-dichloroethane	9.60	62	67816	20.62	ug/L		94
75) trichloroethene	10.34	95	55332	20.60	ug/L		99
76) Ethyl Acrylate	10.33	99	5801	12.97	ug/L	#	80
77) tert-Amyl Ethyl Ether	10.49	87	87255	20.82	ug/L		94
78) 2-chloroethyl vinyl ether	11.19	63	28759	96.28	ug/L		94
79) methyl methacrylate	10.65	100	9308	19.65	ug/L	#	73
80) 1,2-dichloropropane	10.59	63	55254	20.12	ug/L		99
81) dibromomethane	10.76	93	28138	20.67	ug/L		91
82) bromodichloromethane	10.90	83	71600	20.43	ug/L		100
83) 2-nitropropane	11.14	46	444m	15.17	ug/L		
84) cis-1,3-dichloropropene	11.40	75	86256	20.40	ug/L		98
86) 4-methyl-2-pentanone	11.52	58	16530	21.10	ug/L		91
87) toluene	11.79	92	132102	20.60	ug/L		96
88) isoamyl alcohol	11.55	55	40039	399.15	ug/L		94
89) trans-1,3-dichloropropene	12.02	75	74489	20.39	ug/L		95
90) ethyl methacrylate	12.04	69	56019	20.45	ug/L		96
91) 1,1,2-trichloroethane	12.24	83	34593	21.11	ug/L		96
92) 2-hexanone	12.50	58	13768	18.78	ug/L		96
94) tetrachloroethene	12.45	166	60666	20.34	ug/L		99
95) 1,3-dichloropropane	12.44	76	68569	20.56	ug/L		97
96) butyl acetate	12.56	73	9140	18.91	ug/L		93
97) 3,3-Dimethyl-1-Butanol	12.65	69	36357	216.83	ug/L		94
98) dibromochloromethane	12.74	129	51566	20.21	ug/L		98
99) 1,2-dibromoethane	12.91	107	40813	20.85	ug/L		94
100) chlorobenzene	13.43	112	146424	20.25	ug/L		98
101) 1,1,1,2-tetrachloroethane	13.49	131	56630	20.12	ug/L		97
102) ethylbenzene	13.49	91	252091	20.41	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123252.D
Acq On : 12 Jan 2012 1:24 pm
Operator : conorl
Sample : IC5294-20
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 13 08:38:47 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:36:32 2012
Response via : Initial Calibration

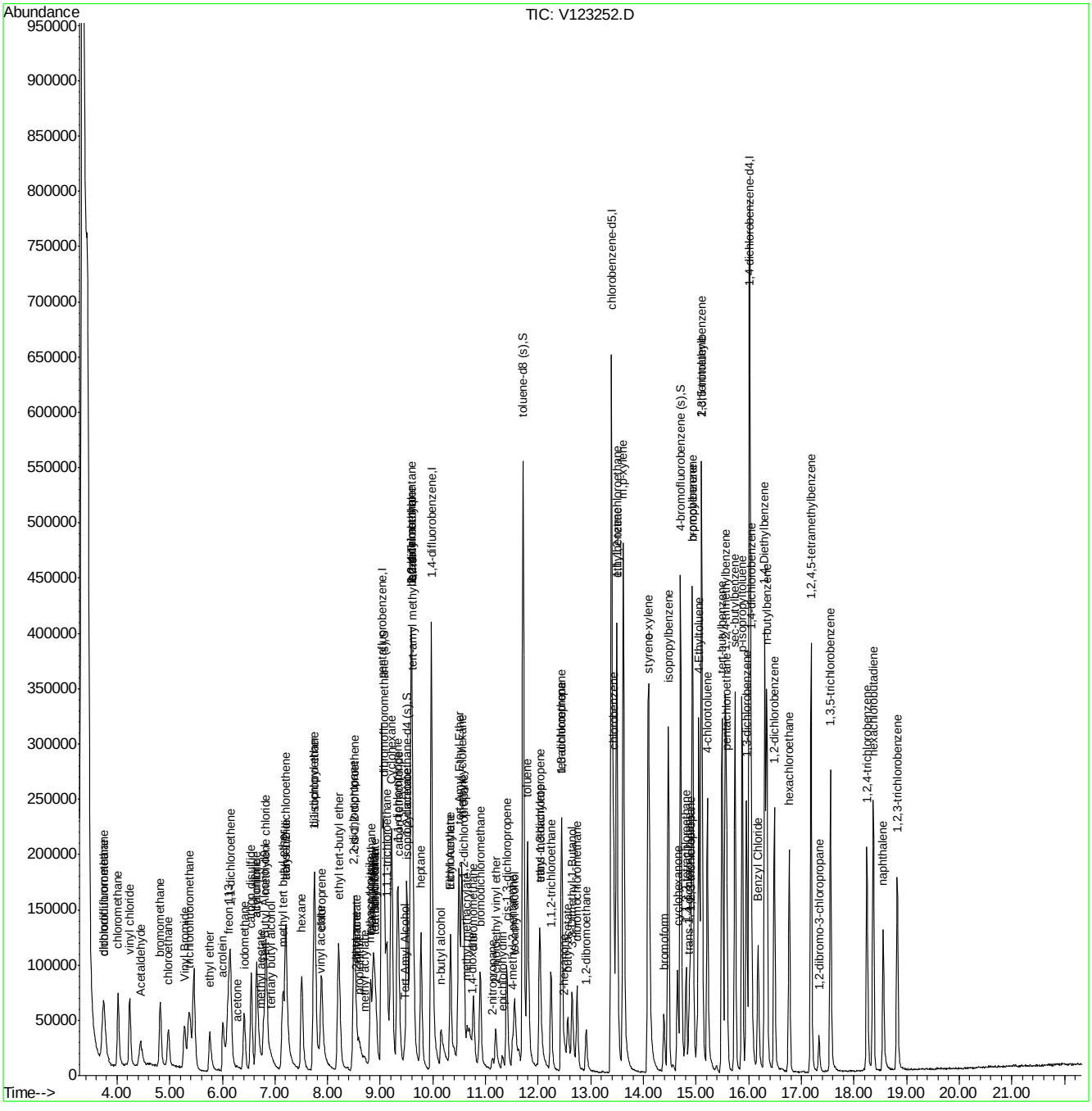
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) m,p-xylene	13.62	106	193302	40.13 ug/L	99
104) o-xylene	14.09	106	99259	20.60 ug/L	94
105) styrene	14.11	104	161614	20.22 ug/L	99
107) bromoform	14.39	173	36047	20.13 ug/L	100
108) cyclohexanone	14.64	55	53889	248.59 ug/L	91
111) isopropylbenzene	14.47	105	265229	21.41 ug/L	99
112) 1,1,2,2-tetrachloroethane	14.81	83	57147	21.90 ug/L	97
113) trans-1,4-dichloro-2-buten	14.86	53	17472	24.44 ug/L	93
114) 1,2,3-trichloropropane	14.89	110	13948	21.88 ug/L	93
115) bromobenzene	14.93	156	66231	20.47 ug/L	97
116) n-propylbenzene	14.94	91	308277	21.42 ug/L	99
117) 4-Ethyltoluene	15.05	105	258688	22.07 ug/L	98
118) 2-chlorotoluene	15.10	126	64413	20.80 ug/L	98
119) 4-chlorotoluene	15.22	91	197491	21.25 ug/L	99
120) 1,3,5-trimethylbenzene	15.11	105	233476	21.62 ug/L	99
121) tert-butylbenzene	15.50	119	192122	20.54 ug/L	99
122) pentachloroethane	15.59	167	46167	20.41 ug/L	97
123) 1,2,4-trimethylbenzene	15.56	105	226502	21.08 ug/L	94
124) sec-butylbenzene	15.74	105	304351	21.40 ug/L	97
125) p-isopropyltoluene	15.88	119	249510	21.06 ug/L	97
126) 1,3-dichlorobenzene	15.96	146	127639	20.62 ug/L	99
127) 1,4-dichlorobenzene	16.05	146	135652	21.28 ug/L	96
128) 1,2-dichlorobenzene	16.49	146	127840	21.29 ug/L	99
129) Benzyl Chloride	16.18	91	111045	20.57 ug/L	99
131) 1,4-Diethylbenzene	16.30	119	169323	22.06 ug/L	97
132) n-butylbenzene	16.34	92	139280	20.95 ug/L	99
133) hexachloroethane	16.77	201	47622	20.00 ug/L	99
134) 1,2,4,5-tetramethylbenzene	17.19	119	255176	21.99 ug/L	99
135) 1,2-dibromo-3-chloropropan	17.33	75	11195	22.53 ug/L	89
136) 1,3,5-trichlorobenzene	17.55	180	115552	20.90 ug/L	99
137) 1,2,4-trichlorobenzene	18.25	180	89896	20.86 ug/L	97
138) hexachlorobutadiene	18.37	225	67417	22.10 ug/L	98
139) naphthalene	18.56	128	141485	21.02 ug/L	99
140) 1,2,3-trichlorobenzene	18.82	180	77417	21.98 ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123252.D
Acq On : 12 Jan 2012 1:24 pm
Operator : conorl
Sample : IC5294-20
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 13 08:38:47 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:36:32 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	VV5294-IC5294	**Method:**	SW846 8260B
Lab FileID:	V123252.D	**Analyst approved:**	01/13/12 09:36 Yunxia Chen
Injection Time:	01/12/12 13:24	**Supervisor approved:**	01/18/12 04:32 Kanya Veerawat

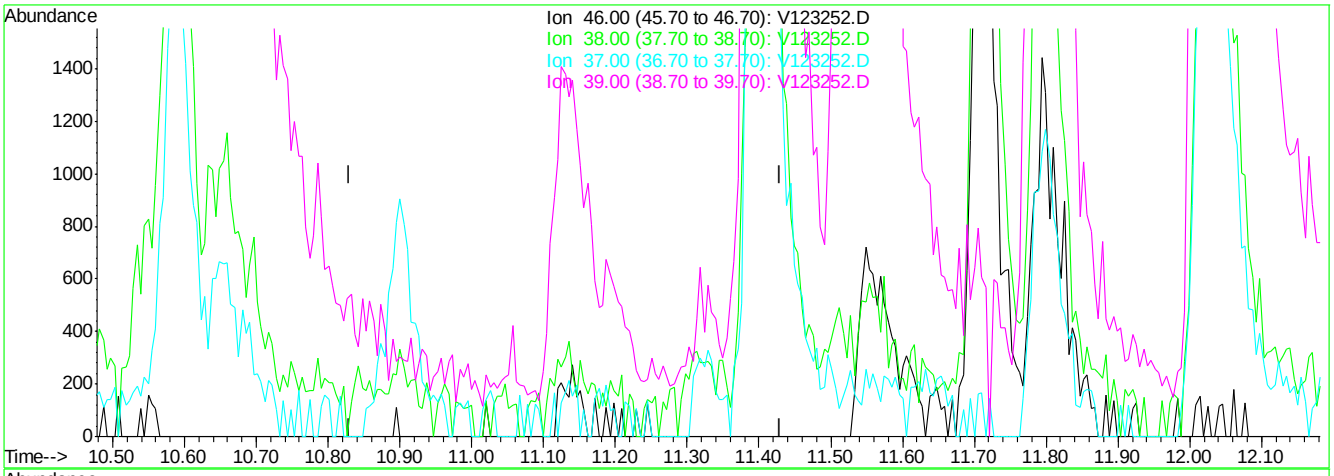
Parameter	CAS	Sig#	R.T. (min.)	Reason
2-Nitropropane	79-46-9		11.14	Missed peak

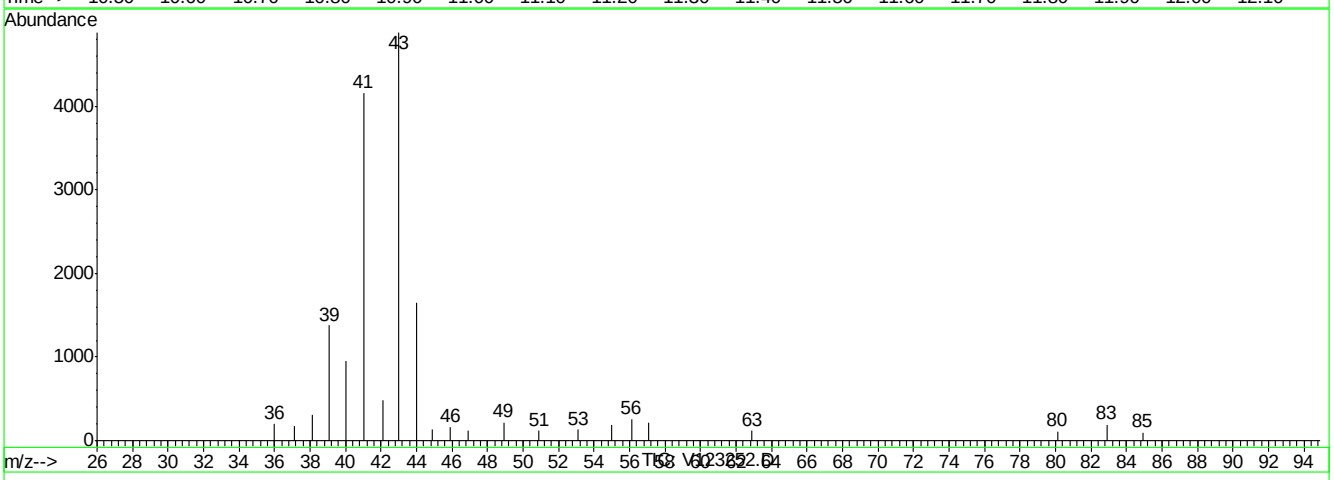
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123252.D Vial: 7
Acq On : 12 Jan 2012 1:24 pm Operator: conorl
Sample : IC5294-20 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 08:36:35 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 08:36:32 2012
Response via : Multiple Level Calibration





(83) 2-nitropropane

11.13min 0.00ug/L

response 0

Ion	Exp%	Act%
46.00	100	0.00
38.00	271.20	0.00#
37.00	144.60	0.00#
39.00	839.70	0.00#

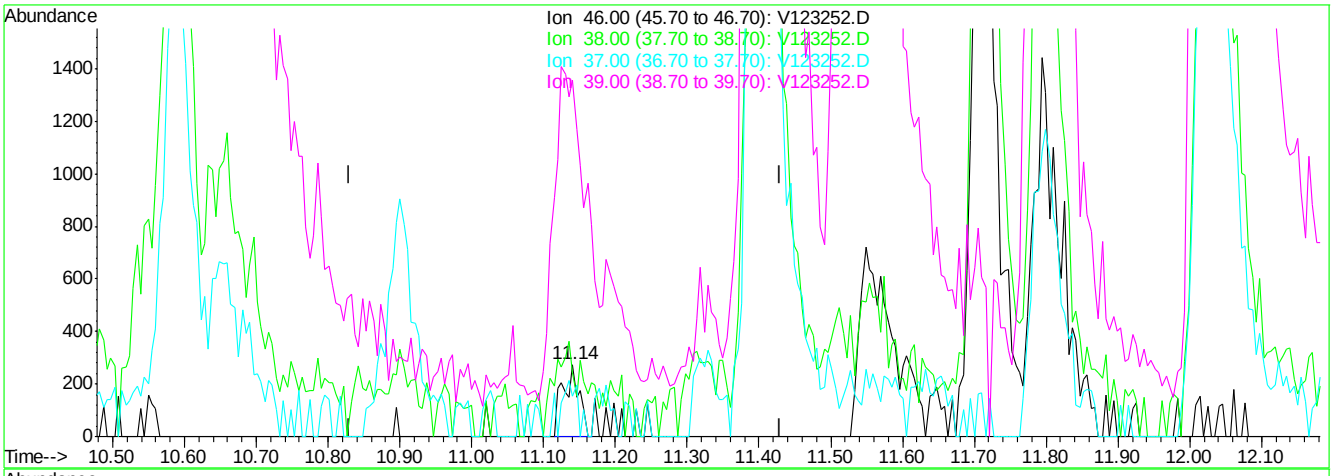
V123252.D MVS5294.M Fri Jan 13 08:37:05 2012 RPT1

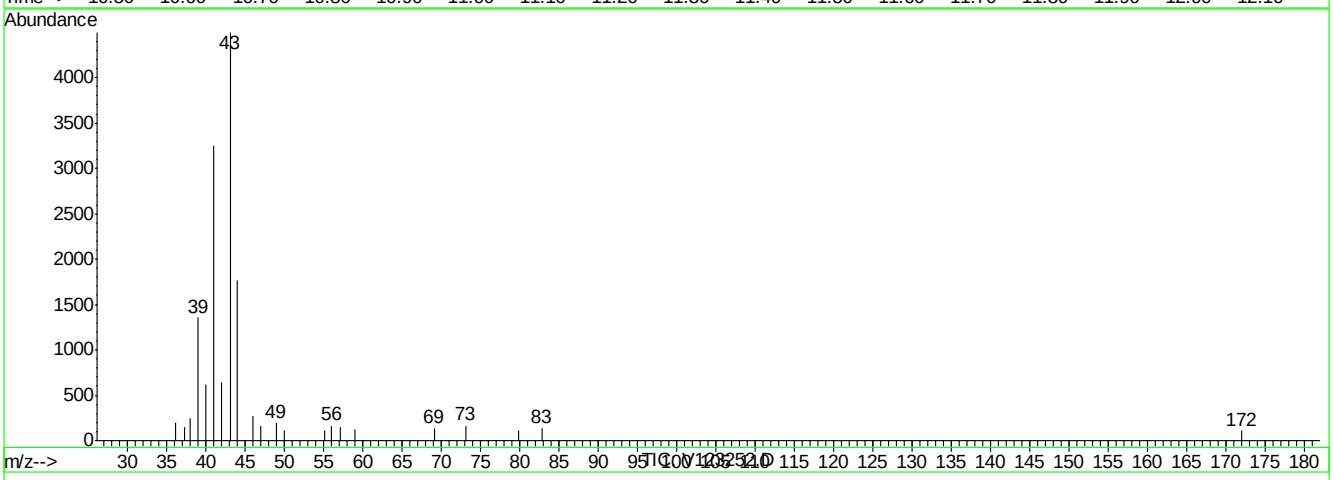
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V123252.D Vial: 7
Acq On : 12 Jan 2012 1:24 pm Operator: conorl
Sample : IC5294-20 Inst : MSV
Misc : MS24067,VV5294,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Jan 13 08:36:35 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 08:36:32 2012
Response via : Multiple Level Calibration





(83) 2-nitropropane

11.14min 15.17ug/L m

response 444

Ion	Exp%	Act%
46.00	100	100
38.00	271.20	0.00#
37.00	144.60	0.00#
39.00	839.70	0.00#

V123252.D MVS5294.M Fri Jan 13 08:37:17 2012 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123253.D
Acq On : 12 Jan 2012 1:55 pm
Operator : conorl
Sample : ICC5294-50
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 13 08:29:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:29:02 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.79	65	130504	500.00	ug/L	0.00
4) pentafluorobenzene	9.03	168	356488	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	530753	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	472429	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	268545	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.07	113	137366	50.00	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 100.00%			
58) 1,2-dichloroethane-d4 (s)	9.50	65	163269	50.00	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 100.00%			
85) toluene-d8 (s)	11.71	98	506113	50.00	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 100.00%			
109) 4-bromofluorobenzene (s)	14.70	95	197818	50.00	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 100.00%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	6.91	59	72205	250.00	ug/L	100
3) 1,4-dioxane	10.72	88	27553	1250.00	ug/L #	100
13) chlorodifluoromethane	3.75	51	182904	50.00	ug/L	100
14) dichlorodifluoromethane	3.75	85	246155	50.00	ug/L	100
15) chloromethane	4.02	50	258937	50.00	ug/L	100
16) vinyl chloride	4.24	62	230049	50.00	ug/L	100
17) bromomethane	4.82	96	134630	50.00	ug/L	100
18) chloroethane	4.97	64	119825	50.00	ug/L	100
19) trichlorofluoromethane	5.37	101	267561	50.00	ug/L	100
20) Vinyl Bromide	5.28	106	131112	50.00	ug/L	100
21) ethyl ether	5.75	74	69737	50.00	ug/L	100
22) Acetaldehyde	4.45	44	159715	500.00	ug/L	100
27) acrolein	5.99	56	222057	500.00	ug/L	100
28) freon 113	6.12	151	116812	50.00	ug/L	100
29) 1,1-dichloroethene	6.15	96	130260	50.00	ug/L	100
30) acetone	6.26	58	8899	50.00	ug/L	100
31) iso-butyl alcohol	9.58	74	47786	500.00	ug/L	100
32) allyl chloride	6.64	78	25886	50.00	ug/L	100
33) acetonitrile	6.64	40	106423	500.00	ug/L	100
34) iodomethane	6.41	142	257562	50.00	ug/L	100
35) carbon disulfide	6.54	76	469214	50.00	ug/L	100
36) methylene chloride	6.82	84	151439	50.00	ug/L	100
37) methyl acetate	6.67	43	74834	50.00	ug/L	100
38) methyl tert butyl ether	7.15	73	390390	50.00	ug/L	100
39) trans-1,2-dichloroethene	7.20	96	143123	50.00	ug/L	100
40) di-isopropyl ether	7.74	45	545578	50.00	ug/L	100
41) 2-butanone	8.52	72	11245	50.00	ug/L	100
42) 1,1-dichloroethane	7.75	63	280562	50.00	ug/L	100
43) chloroprene	7.87	53	238854	50.00	ug/L	100
44) acrylonitrile	7.16	53	175973	250.00	ug/L	100
45) vinyl acetate	7.79	86	16124	50.00	ug/L	100
46) ethyl tert-butyl ether	8.20	59	482779	50.00	ug/L	100
47) ethyl acetate	8.52	45	16326	50.00	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123253.D
Acq On : 12 Jan 2012 1:55 pm
Operator : conorl
Sample : ICC5294-50
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 13 08:29:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:29:02 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2,2-dichloropropane	8.49	77	246025	50.00	ug/L		100
49) cis-1,2-dichloroethene	8.50	96	153374	50.00	ug/L		100
50) propionitrile	8.57	54	134980	500.00	ug/L		100
51) methyl acrylate	8.66	85	12258	50.00	ug/L		100
52) methacrylonitrile	8.78	67	38188	50.00	ug/L		100
53) bromochloromethane	8.81	128	67251	50.00	ug/L		100
54) tetrahydrofuran	8.88	42	37466	50.00	ug/L		100
55) chloroform	8.87	83	252017	50.00	ug/L		100
56) tert-Butyl Formate	8.90	59	121533	50.00	ug/L	#	100
59) 1,1,1-trichloroethane	9.12	97	231638	50.00	ug/L		100
60) Cyclohexane	9.21	84	206330	50.00	ug/L		100
61) Tert Amyl Alcohol	9.45	55	22060	250.00	ug/L		100
63) methylcyclohexane	10.54	83	232526	50.00	ug/L		100
64) epichlorohydrin	11.30	57	52151	250.00	ug/L		100
65) n-butyl alcohol	10.12	56	153113	2500.00	ug/L		100
66) carbon tetrachloride	9.34	117	205269	50.00	ug/L		100
67) 1,1-dichloropropene	9.32	75	195558	50.00	ug/L		100
68) hexane	7.50	57	175285	50.00	ug/L		100
69) 2,2,4-Trimethylpentane	9.59	57	548976	50.00	ug/L		100
70) benzene	9.58	78	568979	50.00	ug/L		100
71) tert-amyl methyl ether	9.61	73	409157	50.00	ug/L		100
72) heptane	9.77	57	103687	50.00	ug/L		100
73) isopropyl acetate	9.51	61	38160	50.00	ug/L	#	100
74) 1,2-dichloroethane	9.59	62	177128	50.00	ug/L		100
75) trichloroethene	10.32	95	143937	50.00	ug/L		100
76) Ethyl Acrylate	10.34	99	23449	50.00	ug/L		100
77) tert-Amyl Ethyl Ether	10.49	87	220504	50.00	ug/L		100
78) 2-chloroethyl vinyl ether	11.17	63	78779	250.00	ug/L		100
79) methyl methacrylate	10.63	100	24670	50.00	ug/L		100
80) 1,2-dichloropropane	10.59	63	148536	50.00	ug/L		100
81) dibromomethane	10.76	93	73309	50.00	ug/L		100
82) bromodichloromethane	10.89	83	187830	50.00	ug/L		100
83) 2-nitropropane	11.13	46	1512	50.00	ug/L		100
84) cis-1,3-dichloropropene	11.39	75	226534	50.00	ug/L		100
86) 4-methyl-2-pentanone	11.50	58	41802	50.00	ug/L		100
87) toluene	11.79	92	348793	50.00	ug/L		100
88) isoamyl alcohol	11.54	55	115133	1000.00	ug/L		100
89) trans-1,3-dichloropropene	12.01	75	196422	50.00	ug/L		100
90) ethyl methacrylate	12.02	69	148001	50.00	ug/L		100
91) 1,1,2-trichloroethane	12.24	83	88205	50.00	ug/L		100
92) 2-hexanone	12.47	58	38328	50.00	ug/L		100
94) tetrachloroethene	12.44	166	158442	50.00	ug/L		100
95) 1,3-dichloropropane	12.44	76	176906	50.00	ug/L		100
96) butyl acetate	12.55	73	25692	50.00	ug/L		100
97) 3,3-Dimethyl-1-Butanol	12.64	69	89448	500.00	ug/L		100
98) dibromochloromethane	12.73	129	134887	50.00	ug/L		100
99) 1,2-dibromoethane	12.90	107	103718	50.00	ug/L		100
100) chlorobenzene	13.43	112	385416	50.00	ug/L		100
101) 1,1,1,2-tetrachloroethane	13.48	131	147539	50.00	ug/L		100
102) ethylbenzene	13.49	91	665976	50.00	ug/L		100

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123253.D
Acq On : 12 Jan 2012 1:55 pm
Operator : conorl
Sample : ICC5294-50
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 13 08:29:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:29:02 2012
Response via : Initial Calibration

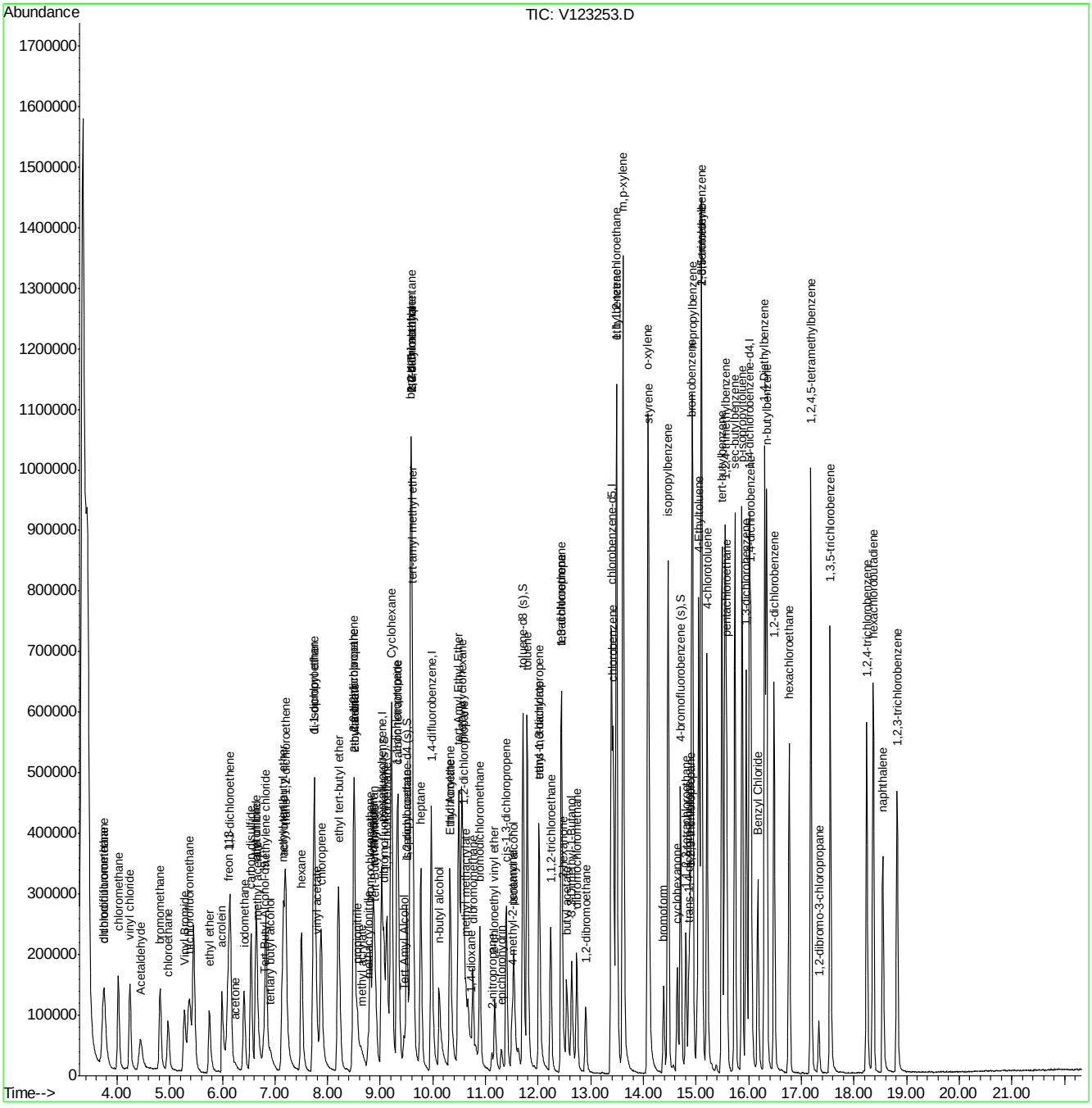
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
103) m,p-xylene	13.61	106	517294	100.00	ug/L	100
104) o-xylene	14.08	106	256001	50.00	ug/L	100
105) styrene	14.10	104	423178	50.00	ug/L	100
107) bromoform	14.39	173	93790	50.00	ug/L	100
108) cyclohexanone	14.64	55	98263	500.00	ug/L	100
111) isopropylbenzene	14.47	105	696242	50.00	ug/L	100
112) 1,1,2,2-tetrachloroethane	14.81	83	147852	50.00	ug/L	100
113) trans-1,4-dichloro-2-buten	14.86	53	38117	50.00	ug/L	100
114) 1,2,3-trichloropropane	14.89	110	35347	50.00	ug/L	100
115) bromobenzene	14.92	156	179184	50.00	ug/L	100
116) n-propylbenzene	14.93	91	811807	50.00	ug/L	100
117) 4-Ethyltoluene	15.05	105	636719	50.00	ug/L	100
118) 2-chlorotoluene	15.09	126	170106	50.00	ug/L	100
119) 4-chlorotoluene	15.21	91	517617	50.00	ug/L	100
120) 1,3,5-trimethylbenzene	15.11	105	610699	50.00	ug/L	100
121) tert-butylbenzene	15.49	119	513714	50.00	ug/L	100
122) pentachloroethane	15.58	167	122563	50.00	ug/L	100
123) 1,2,4-trimethylbenzene	15.55	105	595765	50.00	ug/L	100
124) sec-butylbenzene	15.74	105	798260	50.00	ug/L	100
125) p-isopropyltoluene	15.87	119	657641	50.00	ug/L	100
126) 1,3-dichlorobenzene	15.95	146	338081	50.00	ug/L	100
127) 1,4-dichlorobenzene	16.04	146	350884	50.00	ug/L	100
128) 1,2-dichlorobenzene	16.48	146	331446	50.00	ug/L	100
129) Benzyl Chloride	16.17	91	293577	50.00	ug/L	100
131) 1,4-Diethylbenzene	16.30	119	414071	50.00	ug/L	100
132) n-butylbenzene	16.34	92	369876	50.00	ug/L	100
133) hexachloroethane	16.77	201	130225	50.00	ug/L	100
134) 1,2,4,5-tetramethylbenzene	17.18	119	640303	50.00	ug/L	100
135) 1,2-dibromo-3-chloropropan	17.33	75	28039	50.00	ug/L	100
136) 1,3,5-trichlorobenzene	17.55	180	310941	50.00	ug/L	100
137) 1,2,4-trichlorobenzene	18.24	180	241286	50.00	ug/L	100
138) hexachlorobutadiene	18.37	225	178799	50.00	ug/L	100
139) naphthalene	18.55	128	382857	50.00	ug/L	100
140) 1,2,3-trichlorobenzene	18.82	180	206641	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123253.D
Acq On : 12 Jan 2012 1:55 pm
Operator : conorl
Sample : ICC5294-50
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 13 08:29:06 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:29:02 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123254.D
Acq On : 12 Jan 2012 2:26 pm
Operator : conorl
Sample : IC5294-100
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 13 08:30:10 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:29:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.79	65	119753	500.00	ug/L	0.00
4) pentafluorobenzene	9.02	168	366877	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.96	114	545746	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	489275	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	276536	50.00	ug/L	0.00

System Monitoring Compounds						
57) dibromofluoromethane (s)	9.06	113	282158	99.79	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 199.58%#			
58) 1,2-dichloroethane-d4 (s)	9.49	65	337061	100.30	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 200.60%#			
85) toluene-d8 (s)	11.71	98	1044858	100.39	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 200.78%#			
109) 4-bromofluorobenzene (s)	14.70	95	415484	101.40	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 202.80%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.91	59	150174	566.64	ug/L	100
3) 1,4-dioxane	10.71	88	56877	2812.00	ug/L #	99
13) chlorodifluoromethane	3.75	51	375574	99.76	ug/L	98
14) dichlorodifluoromethane	3.74	85	503953	99.47	ug/L	98
15) chloromethane	4.03	50	529878	99.42	ug/L	99
16) vinyl chloride	4.25	62	470728	99.41	ug/L	98
17) bromomethane	4.81	96	266751	96.26	ug/L	98
18) chloroethane	4.96	64	246517	99.95	ug/L	98
19) trichlorofluoromethane	5.37	101	546353	99.21	ug/L	97
20) Vinyl Bromide	5.28	106	263081	97.49	ug/L	97
21) ethyl ether	5.75	74	146986	102.40	ug/L	98
22) Acetaldehyde	4.44	44	287786	875.42	ug/L	94
27) acrolein	6.12	56	936	2.05	ug/L	74
28) freon 113	6.11	151	239253	99.51	ug/L	99
29) 1,1-dichloroethene	6.14	96	265098	98.88	ug/L	94
30) acetone	6.23	58	20123	109.86	ug/L #	80
31) iso-butyl alcohol	9.58	74	95057	966.45	ug/L	97
32) allyl chloride	6.64	78	55536	104.23	ug/L	95
33) acetonitrile	6.61	40	209345	955.70	ug/L #	1
34) iodomethane	6.41	142	528112	99.62	ug/L	99
35) carbon disulfide	6.54	76	950282	98.40	ug/L	98
36) methylene chloride	6.82	84	310583	99.64	ug/L	99
37) methyl acetate	6.65	43	159548	103.58	ug/L	95
38) methyl tert butyl ether	7.15	73	836125	104.06	ug/L	97
39) trans-1,2-dichloroethene	7.20	96	298615	101.37	ug/L	97
40) di-isopropyl ether	7.74	45	1134864	101.06	ug/L	99
41) 2-butanone	8.49	72	24488	105.80	ug/L	98
42) 1,1-dichloroethane	7.75	63	574972	99.57	ug/L	98
43) chloroprene	7.87	53	494918	100.67	ug/L	98
44) acrylonitrile	7.14	53	375698	518.63	ug/L	100
45) vinyl acetate	7.76	86	38472	115.92	ug/L #	1
46) ethyl tert-butyl ether	8.20	59	1009466	101.59	ug/L	99
47) ethyl acetate	8.49	45	32724	97.38	ug/L	90

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123254.D
Acq On : 12 Jan 2012 2:26 pm
Operator : conorl
Sample : IC5294-100
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 13 08:30:10 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:29:42 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2,2-dichloropropane	8.49	77	499654	98.67	ug/L		99
49) cis-1,2-dichloroethene	8.49	96	319158	101.10	ug/L		99
50) propionitrile	8.55	54	283837	1021.63	ug/L		99
51) methyl acrylate	8.60	85	28068	111.25	ug/L	#	86
52) methacrylonitrile	8.75	67	81486	103.67	ug/L		98
53) bromochloromethane	8.81	128	142503	102.95	ug/L		99
54) tetrahydrofuran	8.87	42	77185	100.09	ug/L		96
55) chloroform	8.86	83	519048	100.06	ug/L		99
56) tert-Butyl Formate	8.90	59	259348	103.68	ug/L	#	98
59) 1,1,1-trichloroethane	9.12	97	474989	99.62	ug/L		97
60) Cyclohexane	9.21	84	420686	99.06	ug/L		91
61) Tert Amyl Alcohol	9.45	55	44235	487.11	ug/L		92
63) methylcyclohexane	10.55	83	487377	101.92	ug/L		96
64) epichlorohydrin	11.29	57	105211	490.50	ug/L		97
65) n-butyl alcohol	10.10	56	324127	5146.89	ug/L		99
66) carbon tetrachloride	9.34	117	414442	98.18	ug/L		94
67) 1,1-dichloropropene	9.32	75	407990	101.45	ug/L		97
68) hexane	7.50	57	357937	99.30	ug/L		99
69) 2,2,4-Trimethylpentane	9.58	57	1141417	101.10	ug/L		100
70) benzene	9.58	78	1157902	98.96	ug/L		98
71) tert-amyl methyl ether	9.61	73	858380	102.01	ug/L		99
72) heptane	9.77	57	213289	100.03	ug/L		99
73) isopropyl acetate	9.50	61	82819	105.53	ug/L	#	98
74) 1,2-dichloroethane	9.58	62	365739	100.41	ug/L		94
75) trichloroethene	10.32	95	295455	99.81	ug/L		98
76) Ethyl Acrylate	10.32	99	49604	102.86	ug/L	#	91
77) tert-Amyl Ethyl Ether	10.49	87	464245	102.38	ug/L		98
78) 2-chloroethyl vinyl ether	11.16	63	170910	527.47	ug/L		96
79) methyl methacrylate	10.61	100	54384	107.19	ug/L	#	81
80) 1,2-dichloropropane	10.58	63	305259	99.93	ug/L		97
81) dibromomethane	10.75	93	152815	101.36	ug/L		96
82) bromodichloromethane	10.89	83	392580	101.63	ug/L		98
83) 2-nitropropane	11.11	46	3231	103.91	ug/L	#	86
84) cis-1,3-dichloropropene	11.39	75	472604	101.45	ug/L		99
86) 4-methyl-2-pentanone	11.50	58	89128	103.68	ug/L		99
87) toluene	11.79	92	708548	98.78	ug/L		98
88) isoamyl alcohol	11.53	55	217954	1841.06	ug/L		92
89) trans-1,3-dichloropropene	12.00	75	409477	101.37	ug/L		98
90) ethyl methacrylate	12.01	69	307193	100.93	ug/L		98
91) 1,1,2-trichloroethane	12.23	83	184019	101.45	ug/L		98
92) 2-hexanone	12.45	58	84118	106.72	ug/L		93
94) tetrachloroethene	12.44	166	322630	98.31	ug/L		99
95) 1,3-dichloropropane	12.43	76	371936	101.50	ug/L		99
96) butyl acetate	12.53	73	54726	102.84	ug/L		98
97) 3,3-Dimethyl-1-Butanol	12.63	69	185995	1003.89	ug/L		96
98) dibromochloromethane	12.73	129	284458	101.81	ug/L		99
99) 1,2-dibromoethane	12.90	107	216950	100.99	ug/L		97
100) chlorobenzene	13.42	112	796534	99.78	ug/L		99
101) 1,1,1,2-tetrachloroethane	13.48	131	311302	101.87	ug/L		99
102) ethylbenzene	13.49	91	1354848	98.22	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123254.D
Acq On : 12 Jan 2012 2:26 pm
Operator : conorl
Sample : IC5294-100
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 13 08:30:10 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:29:42 2012
Response via : Initial Calibration

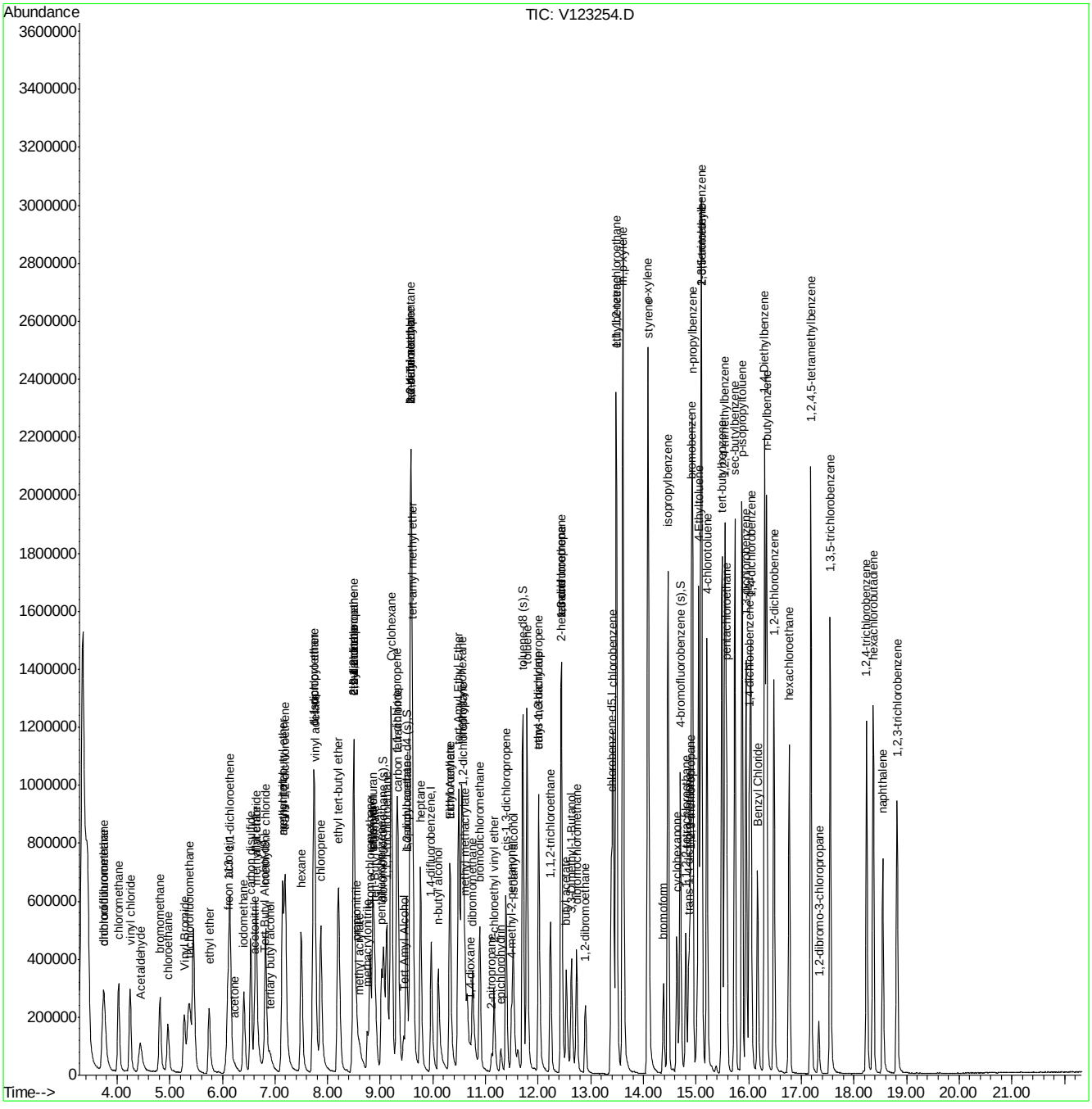
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) m,p-xylene	13.61	106	1052339	196.43 ug/L	96
104) o-xylene	14.08	106	526932	99.37 ug/L	99
105) styrene	14.10	104	883303	100.77 ug/L	97
107) bromoform	14.38	173	198009	101.93 ug/L	97
108) cyclohexanone	14.63	55	260251	1278.66 ug/L	98
111) isopropylbenzene	14.47	105	1411470	98.43 ug/L	99
112) 1,1,2,2-tetrachloroethane	14.81	83	299489	98.35 ug/L	96
113) trans-1,4-dichloro-2-buten	14.86	53	83233	106.03 ug/L	89
114) 1,2,3-trichloropropane	14.89	110	73956	101.59 ug/L #	88
115) bromobenzene	14.91	156	370437	100.38 ug/L	99
116) n-propylbenzene	14.93	91	1643925	98.33 ug/L	99
117) 4-Ethyltoluene	15.05	105	1333267	101.67 ug/L	100
118) 2-chlorotoluene	15.09	126	354273	101.12 ug/L	99
119) 4-chlorotoluene	15.20	91	1064948	99.90 ug/L	97
120) 1,3,5-trimethylbenzene	15.11	105	1226304	97.50 ug/L	99
121) tert-butylbenzene	15.49	119	1071486	101.27 ug/L	100
122) pentachloroethane	15.58	167	259507	102.81 ug/L	98
123) 1,2,4-trimethylbenzene	15.55	105	1228807	100.15 ug/L	96
124) sec-butylbenzene	15.74	105	1622236	98.67 ug/L	99
125) p-isopropyltoluene	15.87	119	1359587	100.38 ug/L	99
126) 1,3-dichlorobenzene	15.95	146	715481	102.76 ug/L	99
127) 1,4-dichlorobenzene	16.04	146	735626	101.80 ug/L	100
128) 1,2-dichlorobenzene	16.48	146	693212	101.55 ug/L	99
129) Benzyl Chloride	16.17	91	623985	103.20 ug/L	97
131) 1,4-Diethylbenzene	16.30	119	875118	102.62 ug/L	99
132) n-butylbenzene	16.34	92	759832	99.75 ug/L	98
133) hexachloroethane	16.77	201	269463	100.47 ug/L	100
134) 1,2,4,5-tetramethylbenzene	17.18	119	1318562	99.99 ug/L	99
135) 1,2-dibromo-3-chloropropan	17.33	75	56874	98.49 ug/L	99
136) 1,3,5-trichlorobenzene	17.55	180	633326	98.90 ug/L	98
137) 1,2,4-trichlorobenzene	18.24	180	494576	99.53 ug/L	98
138) hexachlorobutadiene	18.37	225	350158	95.09 ug/L	99
139) naphthalene	18.55	128	768550	97.47 ug/L	99
140) 1,2,3-trichlorobenzene	18.82	180	401413	94.32 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123254.D
Acq On : 12 Jan 2012 2:26 pm
Operator : conorl
Sample : IC5294-100
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jan 13 08:30:10 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:29:42 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123255.D
Acq On : 12 Jan 2012 2:57 pm
Operator : conorl
Sample : IC5294-200
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 13 08:31:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:30:37 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.80	65	121443	500.00	ug/L	0.02
4) pentafluorobenzene	9.02	168	374878	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	562644	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	496635	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	291019	50.00	ug/L	0.00

System Monitoring Compounds						
57) dibromofluoromethane (s)	9.06	113	547987	189.87	ug/L	-0.01
Spiked Amount 50.000	Range 67 - 131		Recovery = 379.74%#			
58) 1,2-dichloroethane-d4 (s)	9.49	65	581171	169.00	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 130		Recovery = 338.00%#			
85) toluene-d8 (s)	11.71	98	2015603	187.48	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 374.96%#			
109) 4-bromofluorobenzene (s)	14.70	95	803635	191.88	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 383.76%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.91	59	278751	972.35	ug/L	100
3) 1,4-dioxane	10.71	88	108397	4974.18	ug/L #	97
13) chlorodifluoromethane	3.75	51	734869	191.26	ug/L	99
14) dichlorodifluoromethane	3.74	85	1019446	197.44	ug/L	98
15) chloromethane	4.03	50	1054293	194.16	ug/L	99
16) vinyl chloride	4.25	62	952041	197.35	ug/L	98
17) bromomethane	4.81	96	465216	167.43	ug/L	100
18) chloroethane	4.96	64	472698	187.61	ug/L	99
19) trichlorofluoromethane	5.38	101	1097296	195.77	ug/L	95
20) Vinyl Bromide	5.28	106	539341	198.08	ug/L	97
21) ethyl ether	5.75	74	277332	186.84	ug/L	95
22) Acetaldehyde	4.44	44	526803	1672.47	ug/L	93
27) acrolein	6.07	56	1614	3.46	ug/L	87
28) freon 113	6.11	151	476175	194.30	ug/L	99
29) 1,1-dichloroethene	6.14	96	524110	192.39	ug/L	94
30) acetone	6.21	58	35033	178.38	ug/L #	70
31) iso-butyl alcohol	9.57	74	180962	1831.30	ug/L #	88
32) allyl chloride	6.64	78	105354	189.50	ug/L	97
33) acetonitrile	6.59	40	416782	1904.26	ug/L #	1
34) iodomethane	6.41	142	1029888	190.49	ug/L	99
35) carbon disulfide	6.54	76	1852198	189.21	ug/L	98
36) methylene chloride	6.82	84	589404	185.39	ug/L	99
37) methyl acetate	6.63	43	312796	195.24	ug/L	96
38) methyl tert butyl ether	7.15	73	1566730	187.03	ug/L	97
39) trans-1,2-dichloroethene	7.19	96	572919	189.04	ug/L	96
40) di-isopropyl ether	7.73	45	2135700	185.14	ug/L	89
41) 2-butanone	8.47	72	45939	188.77	ug/L	95
42) 1,1-dichloroethane	7.75	63	1097526	186.40	ug/L	98
43) chloroprene	7.86	53	973237	193.09	ug/L	98
44) acrylonitrile	7.13	53	718847	953.39	ug/L	99
45) vinyl acetate	7.75	86	74921	204.64	ug/L #	1
46) ethyl tert-butyl ether	8.21	59	1910865	186.71	ug/L	99
47) ethyl acetate	8.48	45	64361	189.93	ug/L	88

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123255.D
Acq On : 12 Jan 2012 2:57 pm
Operator : conorl
Sample : IC5294-200
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 13 08:31:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:30:37 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2,2-dichloropropane	8.49	77	977696	190.22	ug/L		98
49) cis-1,2-dichloroethene	8.49	96	609068	187.78	ug/L		98
50) propionitrile	8.54	54	531832	1853.35	ug/L		97
51) methyl acrylate	8.59	85	53283	195.67	ug/L	#	88
52) methacrylonitrile	8.75	67	162676	198.90	ug/L		97
53) bromochloromethane	8.80	128	272520	189.88	ug/L		97
54) tetrahydrofuran	8.86	42	146627	186.00	ug/L		99
55) chloroform	8.86	83	999967	188.60	ug/L		99
56) tert-Butyl Formate	8.90	59	496241	190.64	ug/L	#	98
59) 1,1,1-trichloroethane	9.12	97	932561	191.78	ug/L		97
60) Cyclohexane	9.21	84	833856	193.07	ug/L		88
61) Tert Amyl Alcohol	9.44	55	86968	949.48	ug/L		96
63) methylcyclohexane	10.55	83	954400	191.75	ug/L		94
64) epichlorohydrin	11.28	57	202020	922.31	ug/L		97
65) n-butyl alcohol	10.09	56	624668	9482.07	ug/L		98
66) carbon tetrachloride	9.34	117	826509	191.66	ug/L		98
67) 1,1-dichloropropene	9.31	75	800237	191.62	ug/L		98
68) hexane	7.50	57	697563	188.36	ug/L		98
69) 2,2,4-Trimethylpentane	9.59	57	2118068	180.98	ug/L		100
70) benzene	9.57	78	2204462	183.70	ug/L		97
71) tert-amyl methyl ether	9.61	73	1629595	185.98	ug/L		99
72) heptane	9.77	57	401547	182.63	ug/L		97
73) isopropyl acetate	9.49	61	165051	198.51	ug/L	#	99
74) 1,2-dichloroethane	9.58	62	700231	186.08	ug/L		96
75) trichloroethene	10.32	95	581685	190.79	ug/L		99
76) Ethyl Acrylate	10.32	99	98280	194.89	ug/L	#	90
77) tert-Amyl Ethyl Ether	10.49	87	918781	194.22	ug/L		96
78) 2-chloroethyl vinyl ether	11.16	63	315288	918.60	ug/L		98
79) methyl methacrylate	10.61	100	101037	186.46	ug/L	#	83
80) 1,2-dichloropropane	10.58	63	582767	185.11	ug/L		99
81) dibromomethane	10.75	93	286992	183.40	ug/L		96
82) bromodichloromethane	10.88	83	745160	185.60	ug/L		97
83) 2-nitropropane	11.11	46	6554	200.53	ug/L	#	62
84) cis-1,3-dichloropropene	11.39	75	900772	186.20	ug/L		98
86) 4-methyl-2-pentanone	11.49	58	164461	182.21	ug/L		97
87) toluene	11.78	92	1361443	185.23	ug/L		96
88) isoamyl alcohol	11.52	55	407988	3481.09	ug/L		92
89) trans-1,3-dichloropropene	12.00	75	772691	184.28	ug/L		98
90) ethyl methacrylate	12.01	69	575891	182.68	ug/L		98
91) 1,1,2-trichloroethane	12.23	83	345467	183.40	ug/L		96
92) 2-hexanone	12.44	58	155833	185.53	ug/L		100
94) tetrachloroethene	12.44	166	639835	193.71	ug/L		99
95) 1,3-dichloropropane	12.43	76	694474	185.32	ug/L		98
96) butyl acetate	12.53	73	98636	180.05	ug/L		96
97) 3,3-Dimethyl-1-Butanol	12.63	69	348935	1851.83	ug/L		95
98) dibromochloromethane	12.73	129	532890	186.22	ug/L		97
99) 1,2-dibromoethane	12.89	107	410473	187.31	ug/L		99
100) chlorobenzene	13.42	112	1516823	187.40	ug/L		98
101) 1,1,1,2-tetrachloroethane	13.48	131	598273	191.09	ug/L		98
102) ethylbenzene	13.48	91	2572642	185.39	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123255.D
Acq On : 12 Jan 2012 2:57 pm
Operator : conorl
Sample : IC5294-200
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 13 08:31:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:30:37 2012
Response via : Initial Calibration

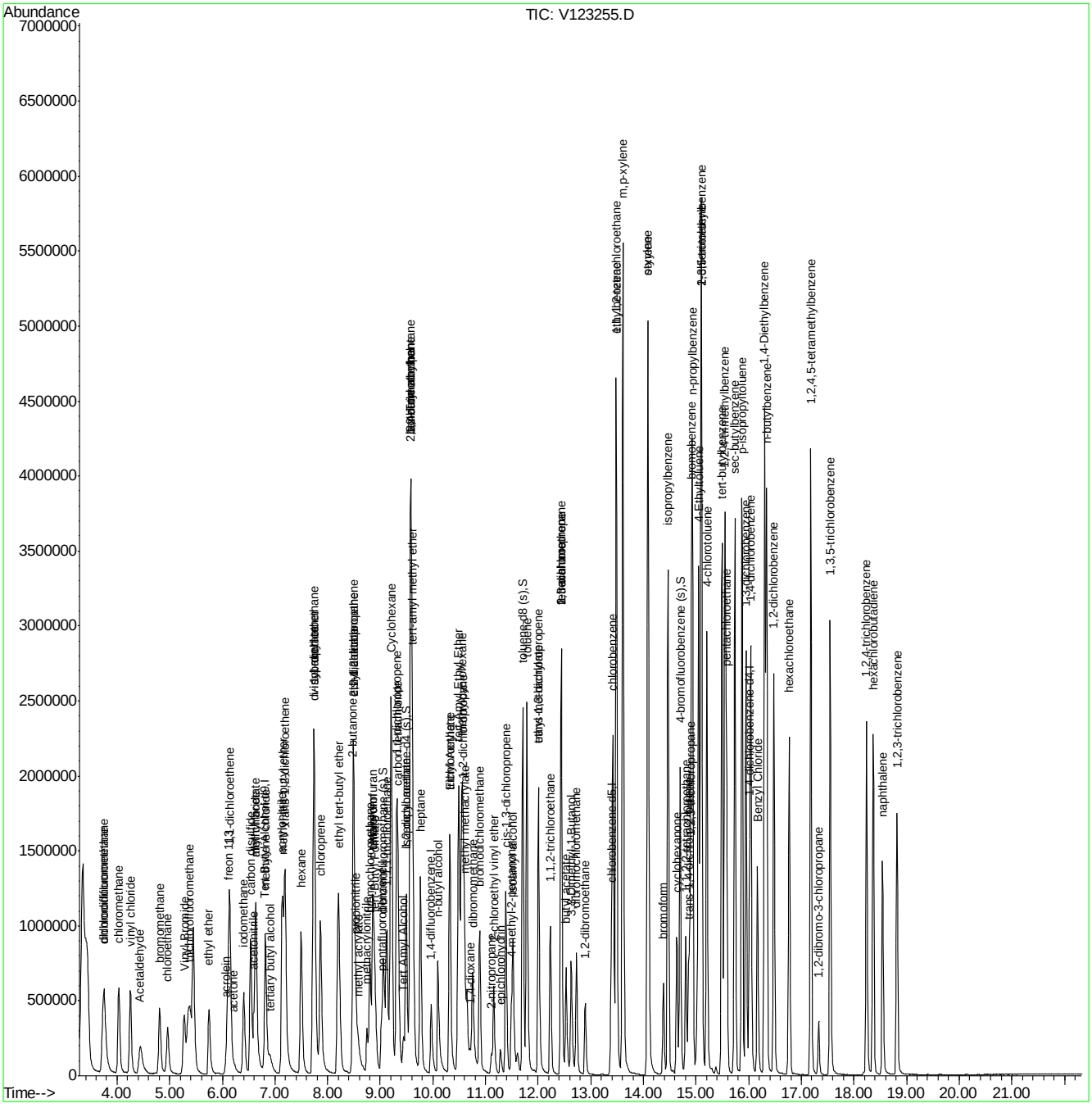
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) m,p-xylene	13.61	106	2024080	375.57 ug/L	91
104) o-xylene	14.08	106	1022365	190.55 ug/L	95
105) styrene	14.09	104	1683718	188.51 ug/L	91
107) bromoform	14.38	173	381088	191.42 ug/L	98
108) cyclohexanone	14.63	55	484038	2056.41 ug/L	97
111) isopropylbenzene	14.47	105	2708207	180.88 ug/L	97
112) 1,1,2,2-tetrachloroethane	14.81	83	561051	176.54 ug/L	97
113) trans-1,4-dichloro-2-buten	14.85	53	161449	189.71 ug/L	100
114) 1,2,3-trichloropropane	14.89	110	138790	179.73 ug/L #	80
115) bromobenzene	14.91	156	714853	183.72 ug/L	96
116) n-propylbenzene	14.93	91	3124674	179.09 ug/L	96
117) 4-Ethyltoluene	15.05	105	2663577	191.41 ug/L	96
118) 2-chlorotoluene	15.09	126	691852	186.61 ug/L	97
119) 4-chlorotoluene	15.20	91	2039670	181.90 ug/L	97
120) 1,3,5-trimethylbenzene	15.11	105	2352749	180.00 ug/L	98
121) tert-butylbenzene	15.49	119	2084435	186.03 ug/L	99
122) pentachloroethane	15.58	167	510957	189.69 ug/L	99
123) 1,2,4-trimethylbenzene	15.55	105	2374125	183.73 ug/L	95
124) sec-butylbenzene	15.74	105	3111847	181.06 ug/L	97
125) p-isopropyltoluene	15.87	119	2606003	182.48 ug/L	97
126) 1,3-dichlorobenzene	15.95	146	1375026	185.10 ug/L	98
127) 1,4-dichlorobenzene	16.04	146	1405978	183.23 ug/L	99
128) 1,2-dichlorobenzene	16.48	146	1320969	182.47 ug/L	98
129) Benzyl Chloride	16.17	91	1203982	186.24 ug/L	96
131) 1,4-Diethylbenzene	16.30	119	1751820	192.68 ug/L	99
132) n-butylbenzene	16.34	92	1464511	182.92 ug/L	96
133) hexachloroethane	16.77	201	540428	191.02 ug/L	99
134) 1,2,4,5-tetramethylbenzene	17.18	119	2595206	187.02 ug/L	98
135) 1,2-dibromo-3-chloropropan	17.33	75	107706	178.58 ug/L	100
136) 1,3,5-trichlorobenzene	17.55	180	1201830	179.32 ug/L	99
137) 1,2,4-trichlorobenzene	18.24	180	938393	179.87 ug/L	98
138) hexachlorobutadiene	18.37	225	629763	166.60 ug/L	99
139) naphthalene	18.55	128	1449763	176.95 ug/L	99
140) 1,2,3-trichlorobenzene	18.82	180	732333	168.29 ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123255.D
Acq On : 12 Jan 2012 2:57 pm
Operator : conorl
Sample : IC5294-200
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jan 13 08:31:02 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 08:30:37 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123258.D
Acq On : 12 Jan 2012 4:30 pm
Operator : conorl
Sample : ICV5294-50
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 13 10:07:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.80	65	127612	500.00	ug/L	0.01
4) pentafluorobenzene	9.03	168	367195	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	549850	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	485651	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.02	152	268917	50.00	ug/L	0.00

System Monitoring Compounds						
57) dibromofluoromethane (s)	9.07	113	140721	47.35	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 94.70%			
58) 1,2-dichloroethane-d4 (s)	9.50	65	166160	48.60	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 97.20%			
85) toluene-d8 (s)	11.71	98	525689	47.11	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 94.22%			
109) 4-bromofluorobenzene (s)	14.70	95	207987	49.75	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 99.50%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	6.91	59	69853	231.63	ug/L	100
3) 1,4-dioxane	10.73	88	28093	1281.23	ug/L #	96
13) chlorodifluoromethane	3.75	51	155569	40.15	ug/L	98
14) dichlorodifluoromethane	3.74	85	249465	45.04	ug/L	95
15) chloromethane	4.02	50	263299	46.06	ug/L	98
16) vinyl chloride	4.24	62	235603	46.73	ug/L	98
17) bromomethane	4.82	96	136306	47.16	ug/L	96
18) chloroethane	4.96	64	125933	46.62	ug/L	97
19) trichlorofluoromethane	5.37	101	275322	47.59	ug/L	96
20) Vinyl Bromide	5.28	106	134130	48.37	ug/L	93
21) ethyl ether	5.75	74	69034	51.56	ug/L	98
22) Acetaldehyde	4.44	44	153735	524.53	ug/L	92
27) acrolein	5.99	56	222828	492.32	ug/L	100
28) freon 113	6.12	151	117373	48.01	ug/L	98
29) 1,1-dichloroethene	6.15	96	122437	44.28	ug/L	92
30) acetone	6.26	58	11028	55.24	ug/L	99
31) iso-butyl alcohol	9.58	74	47633	511.46	ug/L #	87
32) allyl chloride	6.64	78	27693	51.89	ug/L	94
33) acetonitrile	6.63	40	108884	501.08	ug/L	76
34) iodomethane	6.41	142	247087	46.20	ug/L	98
35) carbon disulfide	6.54	76	432132	43.09	ug/L	99
36) methylene chloride	6.82	84	153942	45.63	ug/L	97
37) methyl acetate	6.67	43	85606	55.69	ug/L	95
38) methyl tert butyl ether	7.15	73	803845	96.95	ug/L	97
39) trans-1,2-dichloroethene	7.20	96	135872	45.18	ug/L	95
40) di-isopropyl ether	7.74	45	539214	47.70	ug/L	99
41) 2-butanone	8.52	72	11095	48.81	ug/L	93
42) 1,1-dichloroethane	7.75	63	269035	47.59	ug/L	98
43) chloroprene	7.87	53	227784	46.54	ug/L	97
44) acrylonitrile	7.16	53	181453	253.18	ug/L	96
45) vinyl acetate	7.78	86	17373	50.05	ug/L	79
46) ethyl tert-butyl ether	8.20	59	493157	50.01	ug/L	99
47) ethyl acetate	8.52	45	15859	46.82	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123258.D
Acq On : 12 Jan 2012 4:30 pm
Operator : conorl
Sample : ICV5294-50
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 13 10:07:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
48) 2,2-dichloropropane	8.50	77	239139	44.41	ug/L		98
49) cis-1,2-dichloroethene	8.50	96	148509	45.87	ug/L		95
50) propionitrile	8.56	54	139094	527.38	ug/L		97
51) methyl acrylate	8.64	85	12504	49.98	ug/L	#	93
52) methacrylonitrile	8.78	67	36071	48.73	ug/L		98
53) bromochloromethane	8.81	128	67690	48.17	ug/L		98
54) tetrahydrofuran	8.88	42	37678	48.60	ug/L		99
55) chloroform	8.87	83	246993	45.99	ug/L		95
56) tert-Butyl Formate	8.90	59	120470	48.12	ug/L	#	99
59) 1,1,1-trichloroethane	9.13	97	222479	45.66	ug/L		94
60) Cyclohexane	9.21	84	191637	42.20	ug/L		92
61) Tert Amyl Alcohol	9.45	55	45029	555.63	ug/L		90
63) methylcyclohexane	10.54	83	246378	48.38	ug/L		94
64) epichlorohydrin	11.30	57	50565	238.78	ug/L		98
65) n-butyl alcohol	10.12	56	153774	2386.32	ug/L		98
66) carbon tetrachloride	9.34	117	193214	44.37	ug/L		96
67) 1,1-dichloropropene	9.32	75	184767	43.39	ug/L		98
68) hexane	7.51	57	175140	45.46	ug/L		98
69) 2,2,4-Trimethylpentane	9.58	57	542842	46.67	ug/L		98
70) benzene	9.58	78	540808	45.02	ug/L		98
71) tert-amyl methyl ether	9.61	73	448686	51.07	ug/L		98
72) heptane	9.77	57	100687	45.44	ug/L		98
73) isopropyl acetate	9.51	61	39205	48.78	ug/L	#	100
74) 1,2-dichloroethane	9.59	62	176123	47.57	ug/L		97
75) trichloroethene	10.33	95	140327	44.37	ug/L		95
76) Ethyl Acrylate	10.33	99	23478	50.37	ug/L		91
77) tert-Amyl Ethyl Ether	10.49	87	452954	103.00	ug/L		98
78) 2-chloroethyl vinyl ether	11.18	63	64740	212.57	ug/L		93
79) methyl methacrylate	10.63	100	26133	54.24	ug/L		97
80) 1,2-dichloropropane	10.59	63	143833	47.43	ug/L		99
81) dibromomethane	10.76	93	73775	47.47	ug/L		95
82) bromodichloromethane	10.90	83	187657	47.48	ug/L		98
83) 2-nitropropane	11.12	46	1655	55.09	ug/L	#	79
84) cis-1,3-dichloropropene	11.39	75	225680	47.47	ug/L		97
86) 4-methyl-2-pentanone	11.50	58	40144	47.59	ug/L		98
87) toluene	11.79	92	336395	46.43	ug/L		98
88) isoamyl alcohol	11.54	55	111690	1056.12	ug/L		98
89) trans-1,3-dichloropropene	12.01	75	197543	48.14	ug/L		97
90) ethyl methacrylate	12.02	69	146536	51.06	ug/L		98
91) 1,1,2-trichloroethane	12.23	83	87159	46.52	ug/L		96
92) 2-hexanone	12.47	58	39111	49.58	ug/L		88
94) tetrachloroethene	12.44	166	153178	46.41	ug/L		97
95) 1,3-dichloropropane	12.44	76	178632	48.45	ug/L		99
96) butyl acetate	12.55	73	25415	47.49	ug/L		87
97) 3,3-Dimethyl-1-Butanol	12.64	69	88954	498.97	ug/L		98
98) dibromochloromethane	12.74	129	132837	48.56	ug/L		95
99) 1,2-dibromoethane	12.90	107	104954	48.84	ug/L		100
100) chlorobenzene	13.43	112	382099	47.56	ug/L		99
101) 1,1,1,2-tetrachloroethane	13.49	131	147180	49.18	ug/L		97
102) ethylbenzene	13.49	91	648941	47.66	ug/L		98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123258.D
Acq On : 12 Jan 2012 4:30 pm
Operator : conorl
Sample : ICV5294-50
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 13 10:07:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

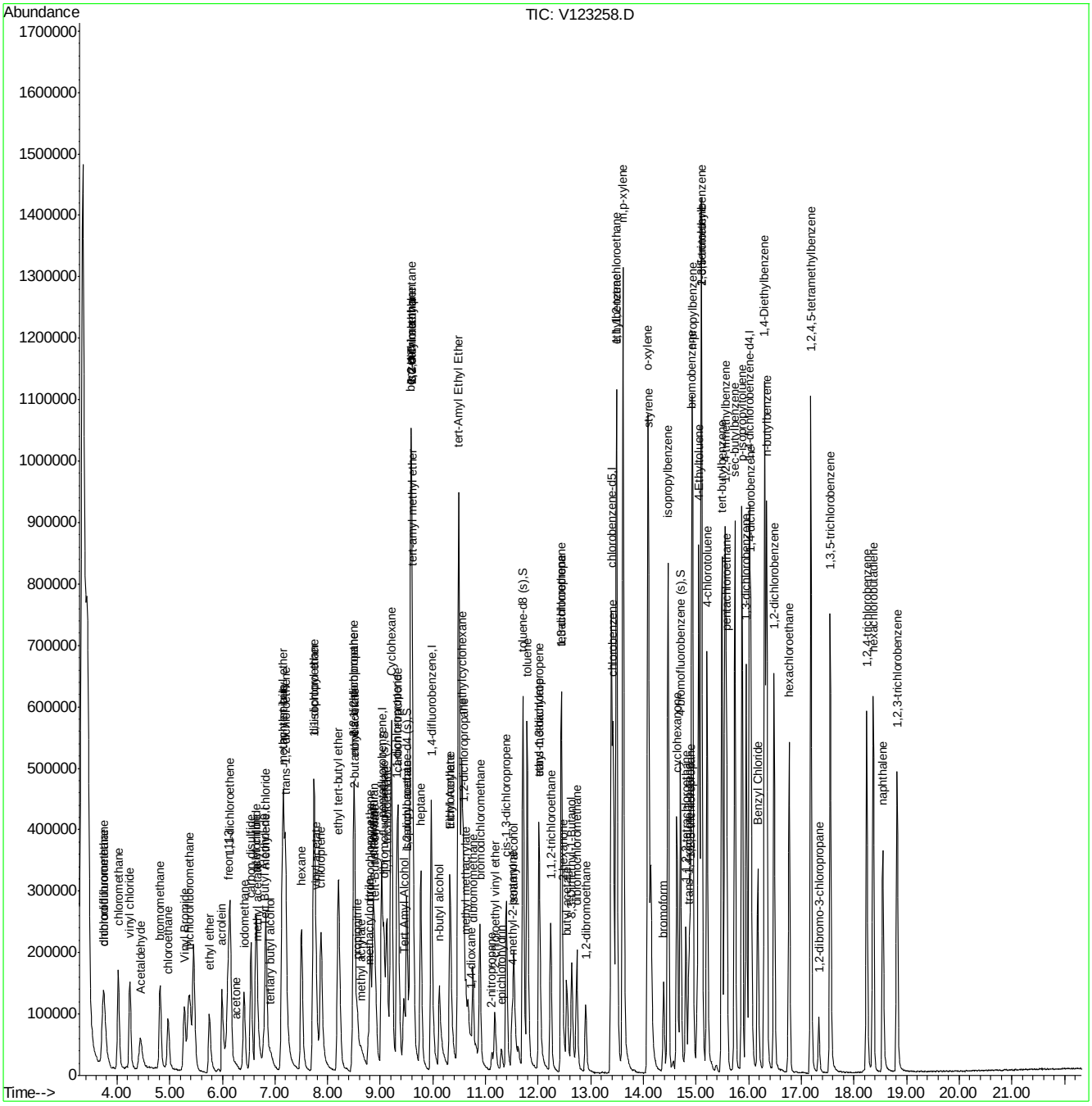
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
103) m,p-xylene	13.61	106	505107	95.32 ug/L	99
104) o-xylene	14.09	106	253664	47.57 ug/L	96
105) styrene	14.10	104	422183	47.44 ug/L	100
107) bromoform	14.38	173	95817	51.41 ug/L	97
108) cyclohexanone	14.63	55	229897	936.37 ug/L	98
111) isopropylbenzene	14.47	105	672069	45.87 ug/L	100
112) 1,1,2,2-tetrachloroethane	14.81	83	143255	46.67 ug/L	99
113) trans-1,4-dichloro-2-buten	14.86	53	38742	48.07 ug/L #	74
114) 1,2,3-trichloropropane	14.89	110	36153	51.49 ug/L	95
115) bromobenzene	14.92	156	176915	48.05 ug/L	99
116) n-propylbenzene	14.93	91	793926	47.46 ug/L	100
117) 4-Ethyltoluene	15.05	105	692244	51.67 ug/L	99
118) 2-chlorotoluene	15.10	126	169486	46.04 ug/L	99
119) 4-chlorotoluene	15.21	91	511893	47.27 ug/L	99
120) 1,3,5-trimethylbenzene	15.11	105	603838	46.96 ug/L	99
121) tert-butylbenzene	15.49	119	503236	46.37 ug/L	100
122) pentachloroethane	15.58	167	121778	48.54 ug/L	98
123) 1,2,4-trimethylbenzene	15.55	105	591751	47.39 ug/L	97
124) sec-butylbenzene	15.74	105	772766	46.04 ug/L	100
125) p-isopropyltoluene	15.87	119	646668	47.42 ug/L	100
126) 1,3-dichlorobenzene	15.95	146	341719	51.59 ug/L	99
127) 1,4-dichlorobenzene	16.04	146	356879	52.20 ug/L	99
128) 1,2-dichlorobenzene	16.48	146	334658	52.17 ug/L	98
129) Benzyl Chloride	16.17	91	310206	53.50 ug/L	97
131) 1,4-Diethylbenzene	16.30	119	450801	51.41 ug/L	100
132) n-butylbenzene	16.34	92	360011	46.49 ug/L	99
133) hexachloroethane	16.77	201	126214	46.97 ug/L	99
134) 1,2,4,5-tetramethylbenzene	17.18	119	697239	52.59 ug/L	100
135) 1,2-dibromo-3-chloropropan	17.33	75	28531	51.11 ug/L	97
136) 1,3,5-trichlorobenzene	17.55	180	315213	50.21 ug/L	99
137) 1,2,4-trichlorobenzene	18.24	180	246568	50.84 ug/L	99
138) hexachlorobutadiene	18.37	225	170963	47.53 ug/L	97
139) naphthalene	18.55	128	391395	51.76 ug/L	100
140) 1,2,3-trichlorobenzene	18.82	180	214403	53.32 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V123258.D
Acq On : 12 Jan 2012 4:30 pm
Operator : conorl
Sample : ICV5294-50
Misc : MS24067,VV5294,5,,,,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Jan 13 10:07:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration



Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat
02/13/12 15:42

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124245.D
Acq On : 13 Feb 2012 10:35 am
Operator : conorl
Sample : CC5294-20
Misc : MS25499,VV5348,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 13:51:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Tert Butyl Alcohol-d9	6.80	65	104664	500.00	ug/L	0.00
4) pentafluorobenzene	9.02	168	352975	50.00	ug/L	0.00
62) 1,4-difluorobenzene	9.97	114	532933	50.00	ug/L	0.00
93) chlorobenzene-d5	13.39	117	533180	50.00	ug/L	0.00
110) 1,4-dichlorobenzene-d4	16.01	152	301471	50.00	ug/L	0.00

System Monitoring Compounds

57) dibromofluoromethane (s)	9.07	113	147541	51.64	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 103.28%			
58) 1,2-dichloroethane-d4 (s)	9.50	65	167480	50.96	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 101.92%			
85) toluene-d8 (s)	11.71	98	608699	56.28	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 112.56%			
109) 4-bromofluorobenzene (s)	14.70	95	246531	53.72	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 107.44%			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	6.92	59	24375	98.55	ug/L	100
3) 1,4-dioxane	10.75	88	10414	579.08	ug/L #	97
13) chlorodifluoromethane	3.74	51	94379	25.34	ug/L	97
14) dichlorodifluoromethane	3.73	85	110252	20.71	ug/L	92
15) chloromethane	4.01	50	119506	21.75	ug/L	97
16) vinyl chloride	4.23	62	100215	20.68	ug/L	98
17) bromomethane	4.82	96	60529	21.78	ug/L	96
18) chloroethane	4.98	64	54992	21.18	ug/L	96
19) trichlorofluoromethane	5.37	101	113194	20.36	ug/L	97
21) ethyl ether	5.76	74	28914	22.46	ug/L	92
22) Acetaldehyde	4.45	44	78799	240.93	ug/L	90
27) acrolein	6.01	56	76564	175.98	ug/L	98
28) freon 113	6.11	151	53421	22.73	ug/L	98
29) 1,1-dichloroethene	6.14	96	59198	22.27	ug/L	97
30) acetone	6.30	58	3231	16.84	ug/L #	54
31) iso-butyl alcohol	9.58	74	18745	209.38	ug/L #	94
32) allyl chloride	6.65	78	12652	23.86	ug/L #	82
33) acetonitrile	6.66	40	42590	203.89	ug/L	97
34) iodomethane	6.40	142	112429	21.87	ug/L	98
35) carbon disulfide	6.54	76	224137	23.25	ug/L	99
36) methylene chloride	6.83	84	70374	21.70	ug/L	99
37) methyl acetate	6.80	43	30560m	20.96	ug/L	
38) methyl tert butyl ether	7.16	73	151152	18.96	ug/L	98
39) trans-1,2-dichloroethene	7.20	96	66519	23.01	ug/L	96
40) di-isopropyl ether	7.74	45	224763	20.69	ug/L	97
41) 2-butanone	8.57	72	3465m	16.18	ug/L	
42) 1,1-dichloroethane	7.75	63	127683	23.50	ug/L	98
43) chloroprene	7.88	53	99164	21.08	ug/L	97
44) acrylonitrile	7.21	53	65811	95.52	ug/L	93
45) vinyl acetate	7.92	86	3735	14.48	ug/L #	1
46) ethyl tert-butyl ether	8.20	59	190220	20.07	ug/L	98
47) ethyl acetate	8.61	45	7397	20.49	ug/L #	11
48) 2,2-dichloropropane	8.49	77	109229	21.10	ug/L	96

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124245.D
Acq On : 13 Feb 2012 10:35 am
Operator : conorl
Sample : CC5294-20
Misc : MS25499,VV5348,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 13:51:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
49) cis-1,2-dichloroethene	8.51	96	66086	21.23 ug/L	90
50) propionitrile	8.61	54	49604	195.65 ug/L	94
51) methyl acrylate	8.79	85	2799	14.58 ug/L #	1
52) methacrylonitrile	8.82	67	11417	16.04 ug/L	83
53) bromochloromethane	8.81	128	28113	20.81 ug/L	96
54) tetrahydrofuran	8.90	42	13166	17.67 ug/L	95
55) chloroform	8.86	83	113663	22.02 ug/L	94
56) tert-Butyl Formate	8.91	59	38454	15.98 ug/L #	93
59) 1,1,1-trichloroethane	9.12	97	104354	22.28 ug/L	96
60) Cyclohexane	9.20	84	98923	22.66 ug/L	62
63) methylcyclohexane	10.54	83	106252	21.52 ug/L	92
64) epichlorohydrin	11.33	57	16696	81.35 ug/L	91
65) n-butyl alcohol	10.19	56	52283	837.10 ug/L	90
66) carbon tetrachloride	9.33	117	92063	21.81 ug/L	93
67) 1,1-dichloropropene	9.32	75	87007	21.08 ug/L	98
68) hexane	7.50	57	80802	21.64 ug/L	95
69) 2,2,4-Trimethylpentane	9.58	57	261113	23.16 ug/L	98
70) benzene	9.58	78	254003	21.81 ug/L	99
71) tert-amyl methyl ether	9.62	73	160592	18.86 ug/L	96
72) heptane	9.77	57	49599	23.10 ug/L	92
73) isopropyl acetate	9.54	61	12603	16.63 ug/L #	84
74) 1,2-dichloroethane	9.59	62	72515	20.21 ug/L	91
75) trichloroethene	10.33	95	63868	20.84 ug/L	90
76) Ethyl Acrylate	10.34	99	6859	17.04 ug/L #	93
78) 2-chloroethyl vinyl ether	11.18	63	56618	191.80 ug/L	97
79) methyl methacrylate	10.67	100	7916	16.95 ug/L #	80
80) 1,2-dichloropropane	10.59	63	65217	22.19 ug/L	97
81) dibromomethane	10.77	93	29230	19.41 ug/L	91
82) bromodichloromethane	10.90	83	80069	20.90 ug/L	99
84) cis-1,3-dichloropropene	11.40	75	96360	20.91 ug/L	94
86) 4-methyl-2-pentanone	11.53	58	14751	18.04 ug/L	91
87) toluene	11.80	92	149841	21.34 ug/L	98
88) isoamyl alcohol	11.56	55	32885	320.83 ug/L	99
89) trans-1,3-dichloropropene	12.03	75	79498	19.99 ug/L	86
90) ethyl methacrylate	12.04	69	51341	18.46 ug/L	99
91) 1,1,2-trichloroethane	12.24	83	37659	20.74 ug/L	97
92) 2-hexanone	12.52	58	16248	21.25 ug/L #	80
94) tetrachloroethene	12.44	166	71039	19.61 ug/L	98
95) 1,3-dichloropropane	12.45	76	75350	18.62 ug/L	92
96) butyl acetate	12.59	73	8087	13.76 ug/L	70
97) 3,3-Dimethyl-1-Butanol	12.64	69	28924	147.78 ug/L	89
98) dibromochloromethane	12.74	129	54934	18.29 ug/L	96
99) 1,2-dibromoethane	12.92	107	41466	17.58 ug/L	97
100) chlorobenzene	13.43	112	170348	19.31 ug/L	98
101) 1,1,1,2-tetrachloroethane	13.49	131	62521	19.03 ug/L	96
102) ethylbenzene	13.50	91	294107	19.68 ug/L	98
103) m,p-xylene	13.62	106	225543	38.77 ug/L	100
104) o-xylene	14.09	106	110368	18.85 ug/L	95
105) styrene	14.11	104	172667	17.67 ug/L	98
107) bromoform	14.39	173	35608	17.40 ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124245.D
Acq On : 13 Feb 2012 10:35 am
Operator : conorl
Sample : CC5294-20
Misc : MS25499,VV5348,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 13:51:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration

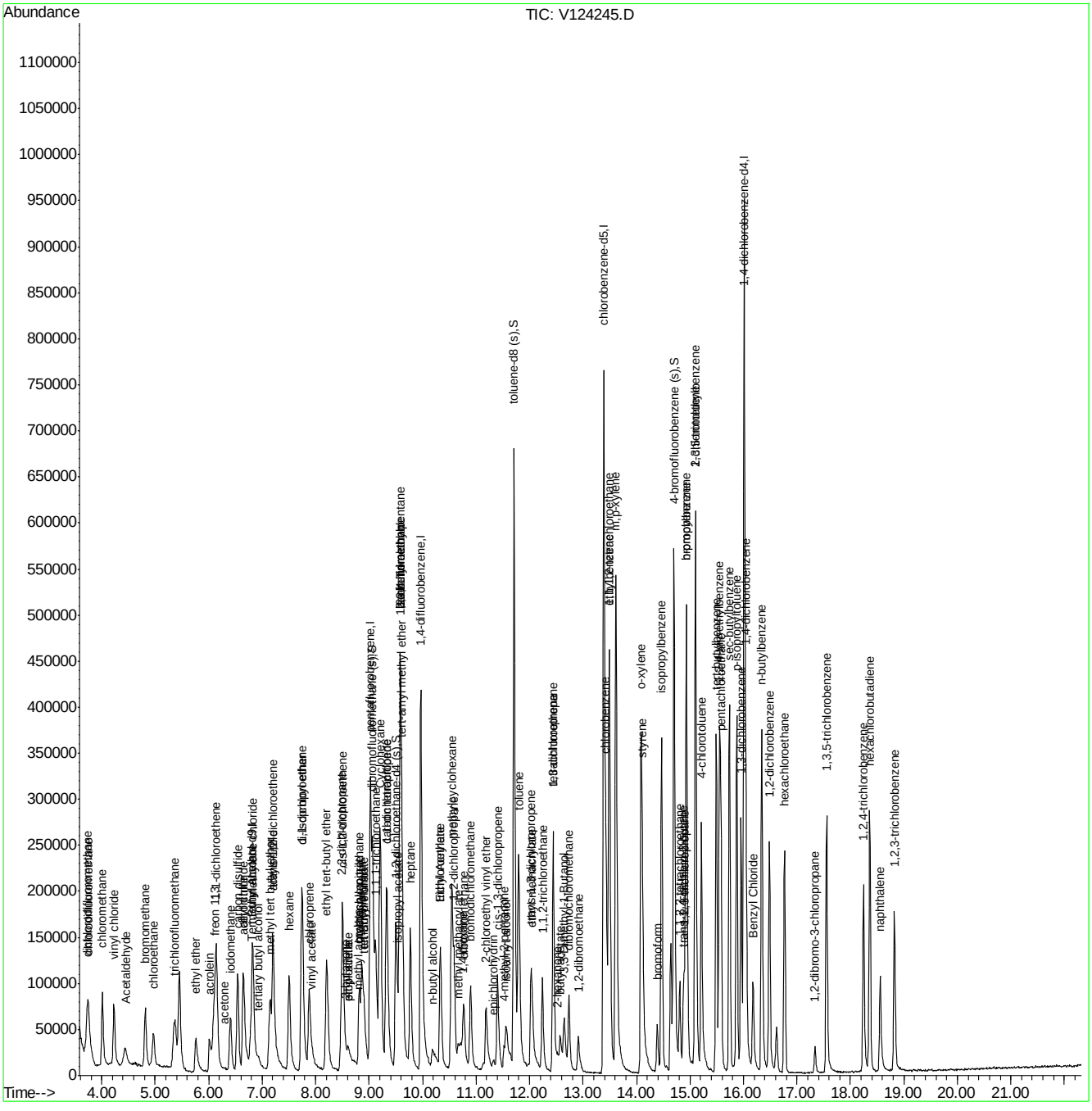
Internal Standards	R.T.	QIon	Response	Conc Units	Dev(Min)
111) isopropylbenzene	14.47	105	307583	18.73 ug/L	99
112) 1,1,2,2-tetrachloroethane	14.81	83	59418	17.27 ug/L	94
113) trans-1,4-dichloro-2-buten	14.87	53	13256	14.67 ug/L #	21
114) 1,2,3-trichloropropane	14.89	110	14220	18.07 ug/L	93
115) bromobenzene	14.92	156	74863	18.14 ug/L	84
116) n-propylbenzene	14.93	91	356383	19.00 ug/L	99
118) 2-chlorotoluene	15.10	126	72237	17.50 ug/L	96
119) 4-chlorotoluene	15.21	91	223217	18.39 ug/L	97
120) 1,3,5-trimethylbenzene	15.11	105	254626	17.66 ug/L	99
121) tert-butylbenzene	15.49	119	217218	17.85 ug/L	98
122) pentachloroethane	15.58	167	50321	17.89 ug/L	96
123) 1,2,4-trimethylbenzene	15.55	105	253430	18.11 ug/L	98
124) sec-butylbenzene	15.74	105	354037	18.81 ug/L	98
125) p-isopropyltoluene	15.88	119	283674	18.56 ug/L	99
126) 1,3-dichlorobenzene	15.95	146	142044	18.06 ug/L	100
127) 1,4-dichlorobenzene	16.04	146	152488	18.44 ug/L	97
128) 1,2-dichlorobenzene	16.49	146	136212	17.57 ug/L	99
129) Benzyl Chloride	16.18	91	100757	15.50 ug/L	100
132) n-butylbenzene	16.34	92	148444	17.10 ug/L	100
133) hexachloroethane	16.77	201	53935	17.91 ug/L	96
135) 1,2-dibromo-3-chloropropan	17.34	75	9682	15.47 ug/L	94
136) 1,3,5-trichlorobenzene	17.55	180	124425	17.68 ug/L	96
137) 1,2,4-trichlorobenzene	18.25	180	88448	16.27 ug/L	99
138) hexachlorobutadiene	18.37	225	77325	19.18 ug/L	96
139) naphthalene	18.55	128	122682	14.47 ug/L	99
140) 1,2,3-trichlorobenzene	18.82	180	76934	17.07 ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\MSDChem\1\DATA\
Data File : V124245.D
Acq On : 13 Feb 2012 10:35 am
Operator : conorl
Sample : CC5294-20
Misc : MS25499,VV5348,5,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 13 13:51:17 2012
Quant Method : C:\MSDCHEM\1\METHODS\MVS5294.M
Quant Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Fri Jan 13 10:06:34 2012
Response via : Initial Calibration



Manual Integration Approval Summary

Sample Number:	VV5348-CC5294	**Method:**	SW846 8260B
Lab FileID:	V124245.D	**Analyst approved:**	02/13/12 13:52 Ho Joong Kim
Injection Time:	02/13/12 10:35	**Supervisor approved:**	02/13/12 15:42 Kanya Veerawat

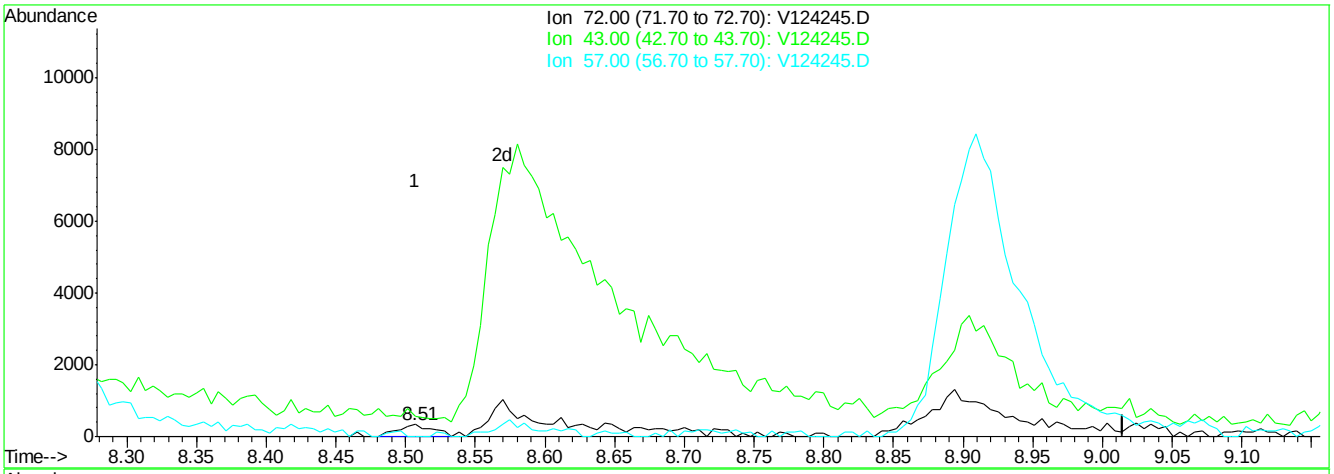
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Acetate	79-20-9		6.80	Missed peak
2-Butanone (MEK)	78-93-3		8.57	Missed peak

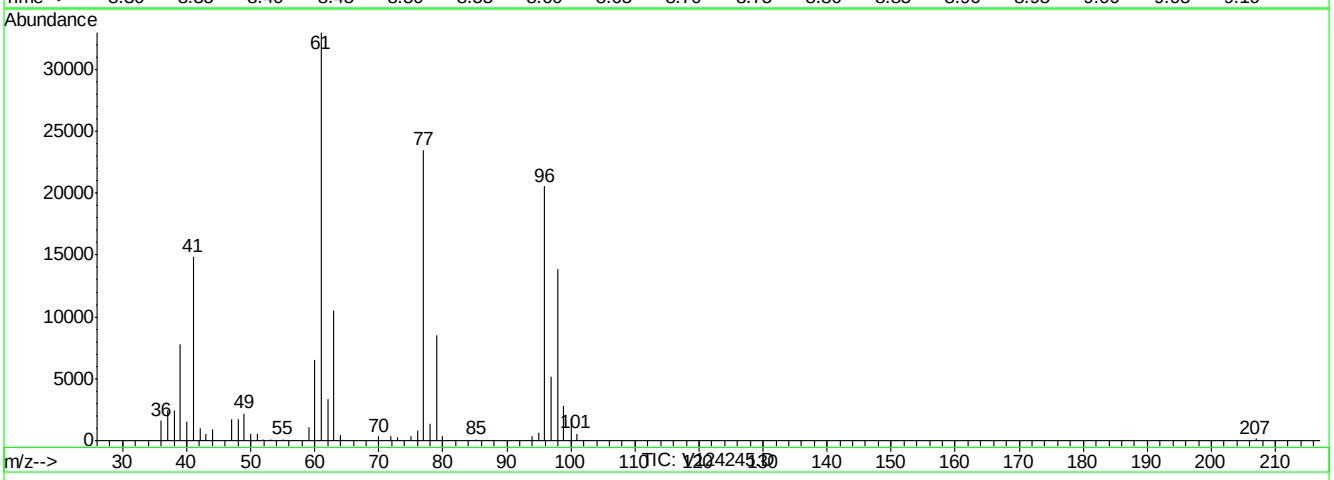
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V124245.D Vial: 2
Acq On : 13 Feb 2012 10:35 am Operator: conorl
Sample : CC5294-20 Inst : MSV
Misc : MS25499,VV5348,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Feb 13 13:50:48 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 10:06:34 2012
Response via : Multiple Level Calibration





(41) 2-butanone

8.51min 3.11ug/L

response 578

Ion	Exp%	Act%
72.00	100	100
43.00	1254.90	0.00#
57.00	28.60	0.00#
0.00	0.00	0.00

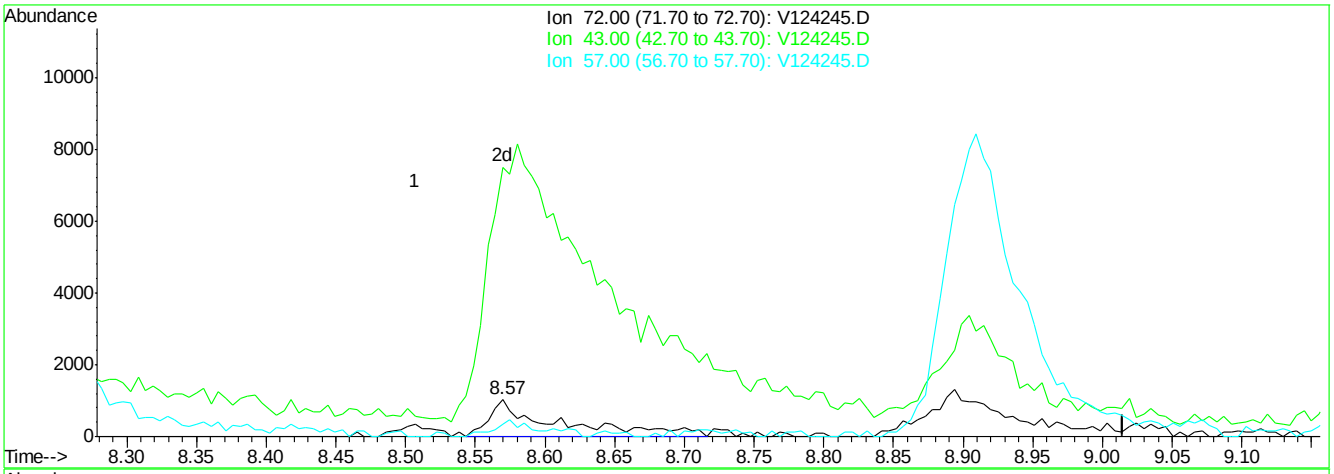
V124245.D MVS5294.M Mon Feb 13 13:51:03 2012 RPT1

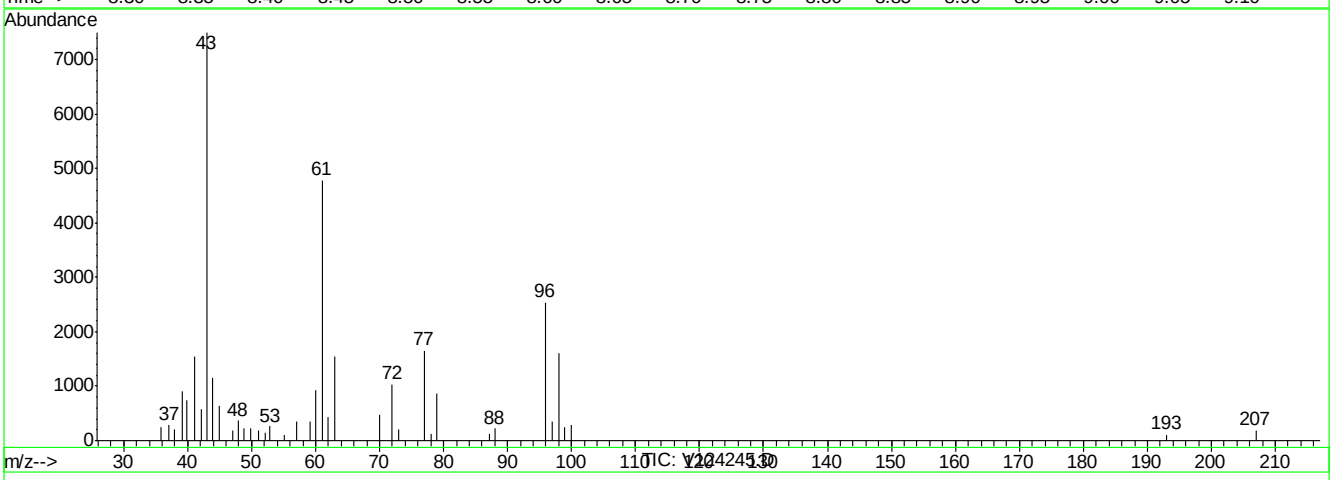
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V124245.D Vial: 2
Acq On : 13 Feb 2012 10:35 am Operator: conorl
Sample : CC5294-20 Inst : MSV
Misc : MS25499,VV5348,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Feb 13 13:50:48 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 10:06:34 2012
Response via : Multiple Level Calibration





(41) 2-butanone

8.57min 16.18ug/L m

response 3465

Ion	Exp%	Act%
72.00	100	100
43.00	1254.90	0.00#
57.00	28.60	0.00#
0.00	0.00	0.00

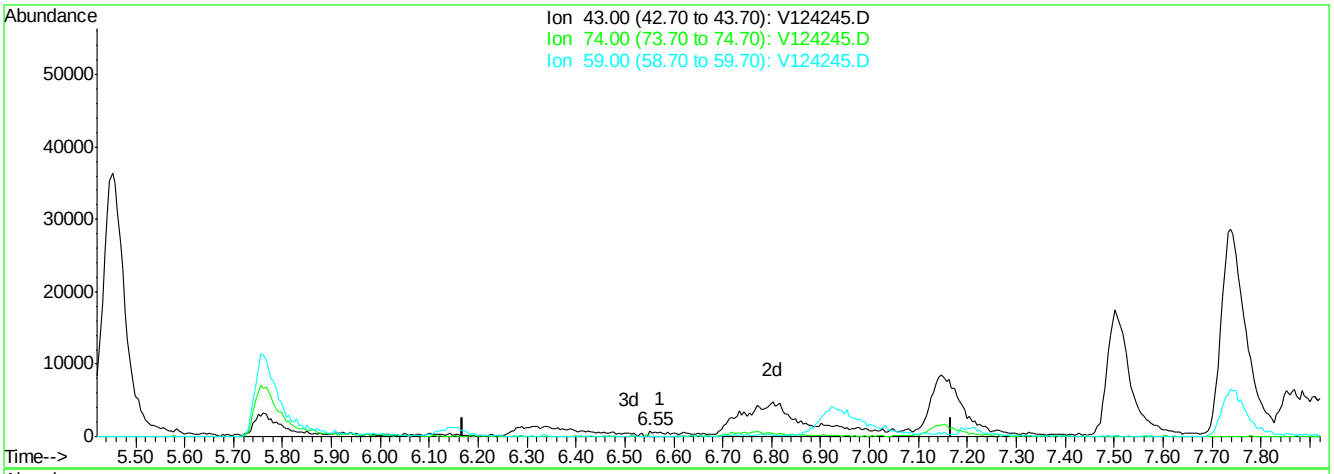
V124245.D MVS5294.M Mon Feb 13 13:51:09 2012 RPT1

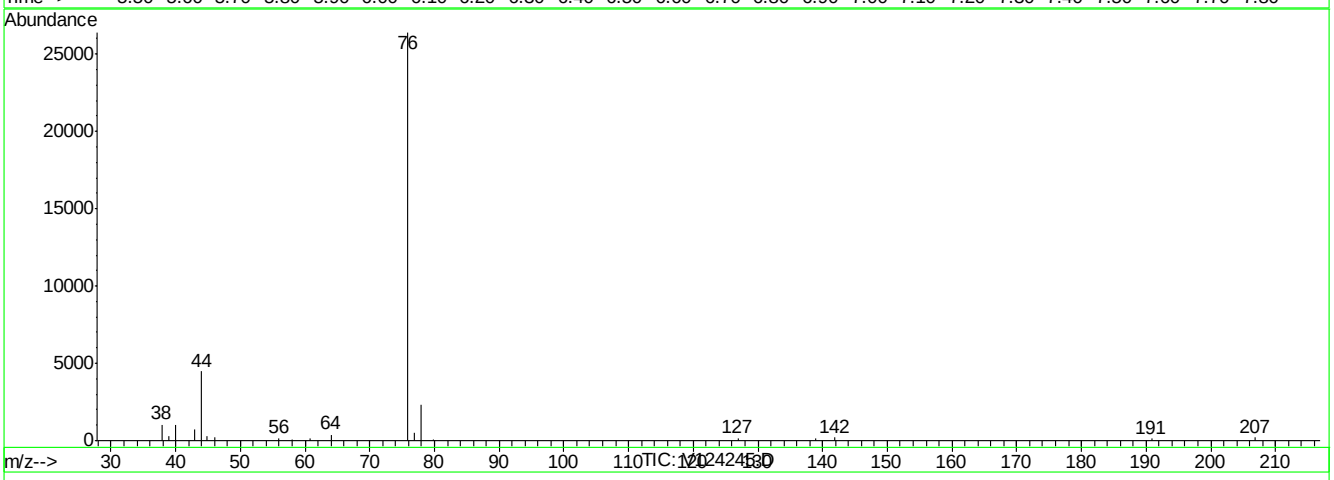
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V124245.D Vial: 2
Acq On : 13 Feb 2012 10:35 am Operator: conorl
Sample : CC5294-20 Inst : MSV
Misc : MS25499,VV5348,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Feb 13 13:50:48 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 10:06:34 2012
Response via : Multiple Level Calibration





(37) methyl acetate

6.57min 1.69ug/L

response 1861

Ion	Exp%	Act%
43.00	100	100
74.00	20.20	0.00
59.00	6.20	0.00
0.00	0.00	0.00

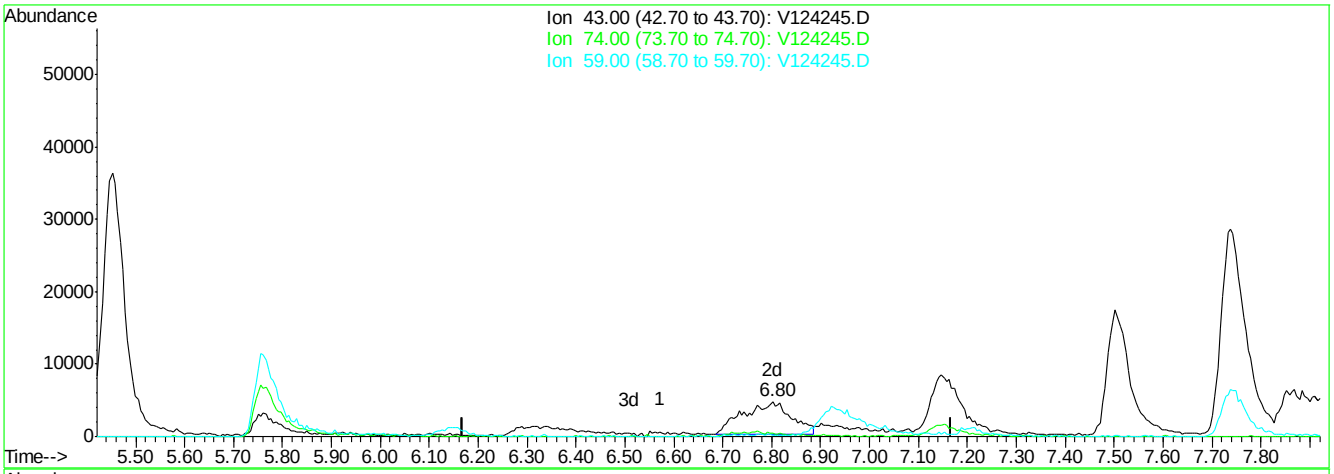
V124245.D MVS5294.M Mon Feb 13 13:51:13 2012 RPT1

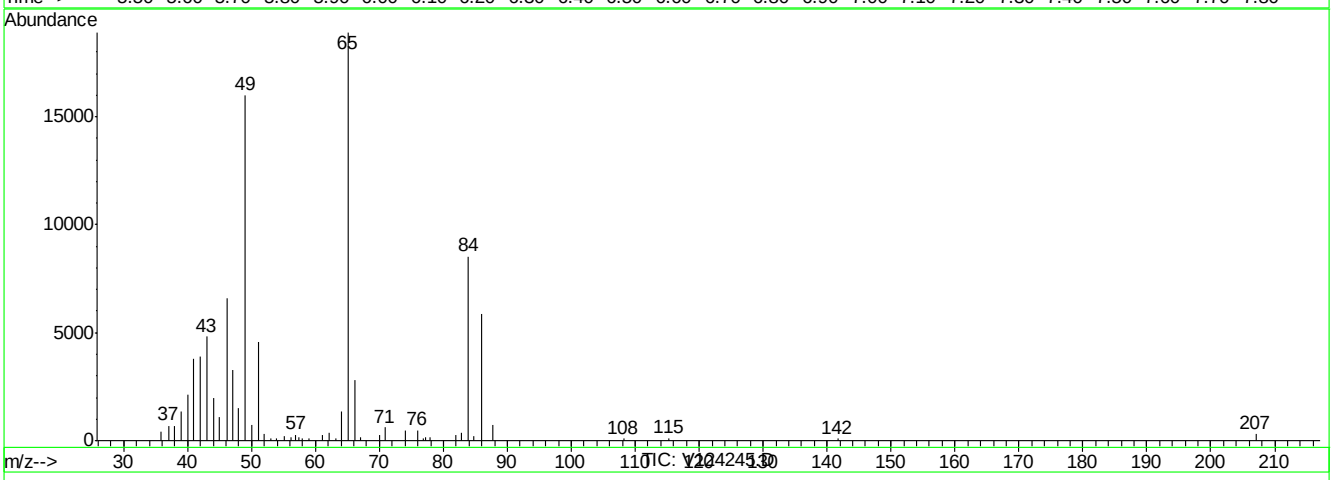
Quantitation Report (Qedit)

Data File : C:\MSDChem\1\DATA\V124245.D Vial: 2
Acq On : 13 Feb 2012 10:35 am Operator: conorl
Sample : CC5294-20 Inst : MSV
Misc : MS25499,VV5348,5,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Quant Time: Feb 13 13:50:48 2012 Results File: MVS5294.RES

Method : C:\MSDCHEM\1\METHODS\MVS5294.M (RTE Integrator)
Title : SW846 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Fri Jan 13 10:06:34 2012
Response via : Multiple Level Calibration





(37) methyl acetate

6.80min 20.96ug/L m

response 30560

Ion	Exp%	Act%
43.00	100	100
74.00	20.20	0.00
59.00	6.20	0.00
0.00	0.00	0.00

V124245.D MVS5294.M Mon Feb 13 13:51:20 2012 RPT1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122917.D Vial: 10
Acq On : 18 Jan 2012 7:13 pm Operator: tamikag
Sample : IC5242-0.5 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 18 19:36:18 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration
DataAcq Meth : MX5242

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.27	65	63407	500.00	ug/L	-0.02
5) pentafluorobenzene	9.97	168	170586	50.00	ug/L	-0.01
62) 1,4-difluorobenzene	11.13	114	256885	50.00	ug/L	-0.02
93) chlorobenzene-d5	15.35	117	236027	50.00	ug/L	-0.02
108) 1,4-dichlorobenzene-d4	18.15	152	116846	50.00	ug/L	0.00

System Monitoring Compounds						
54) dibromofluoromethane (s)	10.01	113	1532	1.11	ug/L	-0.02
Spiked Amount 50.000	Range 67 - 131		Recovery = 2.22%#			
55) 1,2-dichloroethane-d4 (s)	10.54	65	1779	1.29	ug/L	-0.01
Spiked Amount 50.000	Range 66 - 130		Recovery = 2.58%#			
85) toluene-d8 (s)	13.32	98	8032	1.51	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 3.02%#			
110) 4-bromofluorobenzene (s)	16.85	95	8007	3.89	ug/L	-0.01
Spiked Amount 50.000	Range 53 - 142		Recovery = 7.78%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.42	59	732	4.39	ug/L	95
11) chlorodifluoromethane	3.77	51	1091	0.81	ug/L	64
12) dichlorodifluoromethane	3.75	85	902	0.45	ug/L #	50
15) chloromethane	4.06	50	1137	0.48	ug/L	85
16) vinyl chloride	4.31	62	728	0.38	ug/L #	49
18) bromomethane	4.98	94	564	0.47	ug/L	93
19) chloroethane	5.16	64	423	0.44	ug/L #	42
22) pentane	5.71	43	2367	0.94	ug/L #	84
23) ethyl ether	6.06	74	365	0.47	ug/L #	42
27) acrolein	6.35	56	1257	5.28	ug/L #	35
28) 1,1-dichloroethene	6.50	96	911	0.77	ug/L	89
30) allyl chloride	7.08	76	417	0.49	ug/L #	65
31) acetonitrile	7.08	40	2139	18.71	ug/L #	60
32) iodomethane	6.81	142	1321	0.50	ug/L	84
33) iso-butyl alcohol	10.37	43	1484	24.11	ug/L	82
34) carbon disulfide	6.94	76	2915	0.64	ug/L	81
35) methylene chloride	7.30	84	1600	1.06	ug/L	89
37) methyl tert butyl ether	7.69	73	2631	0.72	ug/L	69
38) trans-1,2-dichloroethene	7.74	96	1017	0.74	ug/L	87
39) di-isopropyl ether	8.38	45	4922	0.87	ug/L #	44
41) 1,1-dichloroethane	8.40	63	1787	0.69	ug/L	91
42) chloroprene	8.52	53	1789	0.83	ug/L	85
43) acrylonitrile	7.71	53	1320	3.08	ug/L	88
45) ethyl tert-butyl ether	8.95	59	3809	0.81	ug/L	87
47) 2,2-dichloropropane	9.29	77	1302	0.65	ug/L	61
48) cis-1,2-dichloroethene	9.30	96	1147	0.73	ug/L	84
49) propionitrile	9.42	54	1171	6.99	ug/L #	51
50) tert-Butyl Formate	9.80	59	1044	0.95	ug/L #	84
51) bromochloromethane	9.68	128	304	0.39	ug/L #	66
52) tetrahydrofuran	9.74	42	856	1.84	ug/L #	41
53) chloroform	9.77	83	1956	0.78	ug/L	90
56) freon 113	6.48	151	480	0.46	ug/L	97
57) methacrylonitrile	9.63	41	887	1.15	ug/L	96

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122917.D Vial: 10
Acq On : 18 Jan 2012 7:13 pm Operator: tamikag
Sample : IC5242-0.5 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 18 19:36:18 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration
DataAcq Meth : MX5242

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
58)	1,1,1-trichloroethane	10.06	97	1282	0.65 ug/L		85
59)	cyclohexane	10.14	84	1326	0.67 ug/L	#	59
61)	iso-octane	10.63	57	5449	0.98 ug/L		78
64)	epichlorohydrin	12.67	57	578	5.26 ug/L	#	71
65)	n-butyl alcohol	11.36	56	2009	50.65 ug/L		87
66)	carbon tetrachloride	10.32	117	1109	0.56 ug/L		92
67)	1,1-dichloropropene	10.29	75	1247	0.62 ug/L		98
68)	hexane	8.07	57	2358	1.10 ug/L		77
69)	benzene	10.63	78	4065	0.69 ug/L		98
70)	tert-amyl methyl ether	10.69	73	3586	0.81 ug/L		91
71)	heptane	10.87	57	1159	0.92 ug/L		81
72)	isopropyl acetate	10.57	43	2044	0.71 ug/L	#	77
73)	1,2-dichloroethane	10.65	62	1197	0.67 ug/L		84
74)	trichloroethene	11.57	130	973	0.61 ug/L		83
78)	2-chloroethyl vinyl ether	12.67	63	1929	3.45 ug/L		94
79)	methyl methacrylate	11.97	69	734	0.83 ug/L	#	60
80)	1,2-dichloropropane	11.92	63	1067	0.64 ug/L		92
81)	dibromomethane	12.13	93	515	0.56 ug/L		78
82)	methylcyclohexane	11.84	83	2113	0.87 ug/L		95
83)	bromodichloromethane	12.32	83	1515	0.75 ug/L		95
84)	cis-1,3-dichloropropene	12.94	75	1842	0.71 ug/L		97
87)	toluene	13.42	92	2726	0.72 ug/L		99
88)	3-methyl-1-butanol	13.15	55	1790	30.76 ug/L		79
89)	trans-1,3-dichloropropene	13.72	75	1670	0.74 ug/L		98
90)	ethyl methacrylate	13.74	69	1271	0.75 ug/L		91
91)	1,1,2-trichloroethane	13.99	83	883	0.81 ug/L		95
94)	3,3-Dimethyl-1-butanol	14.51	57	1987	16.21 ug/L	#	95
95)	tetrachloroethene	14.20	164	972	0.67 ug/L		93
96)	1,3-dichloropropane	14.24	76	1582	0.73 ug/L		97
97)	butyl acetate	14.39	56	854	0.94 ug/L	#	62
98)	dibromochloromethane	14.58	129	1194	0.73 ug/L		88
99)	1,2-dibromoethane	14.77	107	973	0.75 ug/L		99
101)	chlorobenzene	15.39	112	3406	0.80 ug/L		89
102)	1,1,1,2-tetrachloroethane	15.48	131	1067	0.68 ug/L		90
103)	ethylbenzene	15.48	91	8880	1.29 ug/L		93
104)	m,p-xylene	15.62	106	8106	2.99 ug/L		93
105)	o-xylene	16.17	106	2707	0.99 ug/L		100
106)	styrene	16.18	104	3686	0.79 ug/L		92
107)	bromoform	16.51	173	735	0.61 ug/L		82
109)	isopropylbenzene	16.61	105	6108	0.91 ug/L		99
111)	bromobenzene	17.07	156	1518	0.81 ug/L		95
112)	1,1,2,2-tetrachloroethane	17.00	83	1675	1.03 ug/L		84
113)	trans-1,4-dichloro-2-buten	17.05	53	337	0.84 ug/L	#	83
114)	1,2,3-trichloropropane	17.07	110	315	0.78 ug/L	#	48
115)	n-propylbenzene	17.10	91	8380	1.06 ug/L		96
117)	2-chlorotoluene	17.26	126	1489	0.84 ug/L		92
118)	4-chlorotoluene	17.38	91	4847	0.97 ug/L		96
119)	1,3,5-trimethylbenzene	17.28	105	6288	1.13 ug/L		96
120)	tert-butylbenzene	17.66	119	4717	0.95 ug/L		93

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122917.D Vial: 10
Acq On : 18 Jan 2012 7:13 pm Operator: tamikag
Sample : IC5242-0.5 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 18 19:36:18 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Tue Nov 29 09:14:04 2011
Response via : Initial Calibration
DataAcq Meth : MX5242

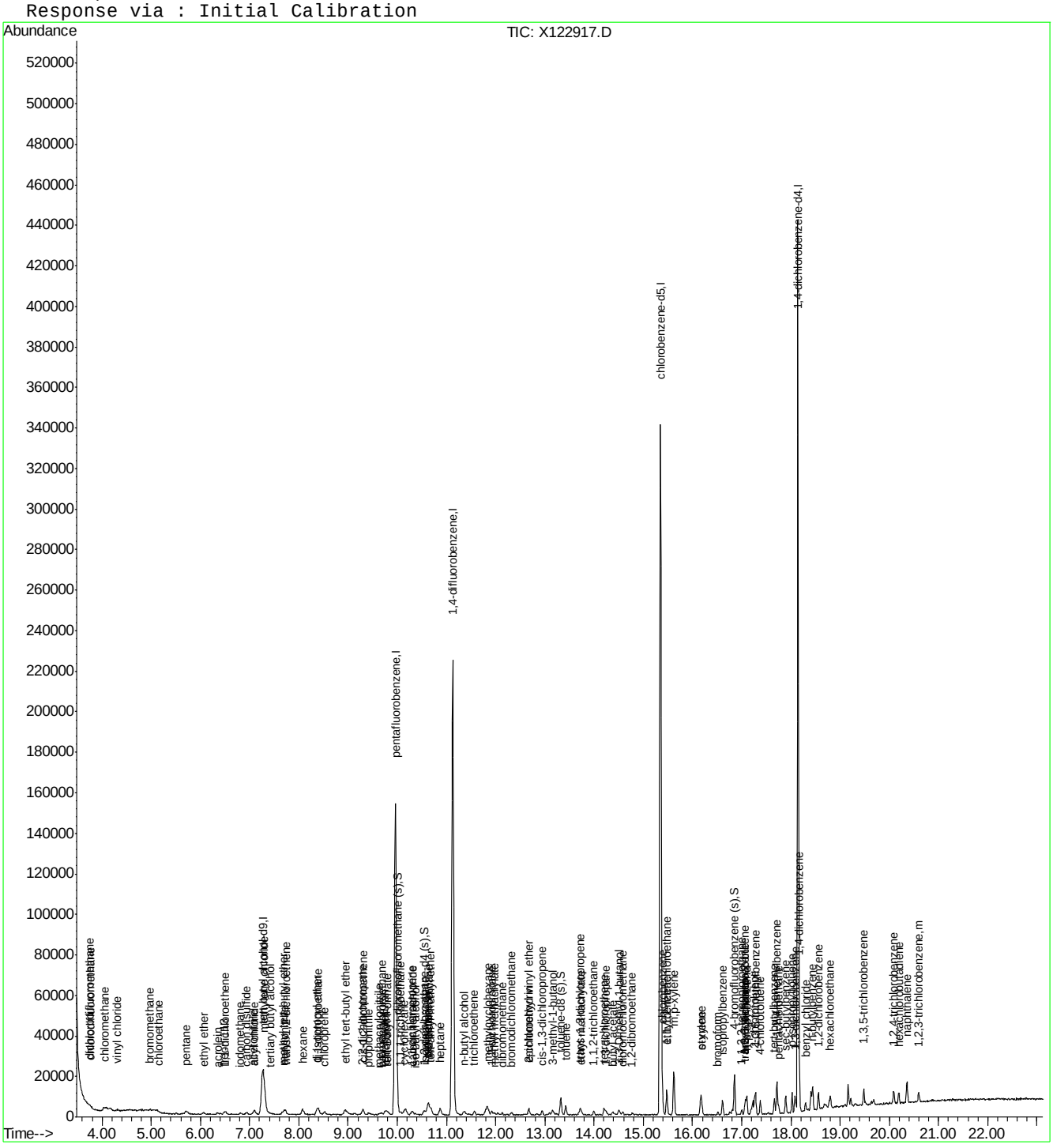
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
121) pentachloroethane	17.75	167	893	0.70	ug/L	93
122) 1,2,4-trimethylbenzene	17.72	105	9584	1.68	ug/L	98
124) sec-butylbenzene	17.89	105	7510	1.01	ug/L	95
125) 1,3-dichlorobenzene	18.08	146	3708	1.04	ug/L	99
126) p-isopropyltoluene	18.03	119	6295	1.01	ug/L	97
127) 1,4-dichlorobenzene	18.17	146	3887	1.07	ug/L	97
128) 1,2-dichlorobenzene	18.56	146	3621	1.07	ug/L	95
129) benzyl chloride	18.30	91	3812	1.24	ug/L	92
131) n-butylbenzene	18.44	92	3737	1.13	ug/L	85
134) 1,3,5-trichlorobenzene	19.48	180	2961	0.94	ug/L	89
135) hexachlorobutadiene	20.20	225	1374	0.87	ug/L	97
136) naphthalene	20.36	128	8287	1.92	ug/L	96
137) 1,2,4-trichlorobenzene	20.09	180	2375	0.94	ug/L	95
138) 1,2,3-trichlorobenzene	20.60	180	2029	0.91	ug/L	98
139) hexachloroethane	18.80	201	1032	0.82	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122917.D Vial: 10
Acq On : 18 Jan 2012 7:13 pm Operator: tamikag
Sample : IC5242-0.5 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 10:22 2012 Quant Results File: MX5242.RES

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:01:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122918.D Vial: 11
Acq On : 18 Jan 2012 7:42 pm Operator: tamikag
Sample : IC5242-1 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:54:09 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:54:02 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.27	65	63685	500.00	ug/L	0.00
5) pentafluorobenzene	9.97	168	181729	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.13	114	271696	50.00	ug/L	0.00
93) chlorobenzene-d5	15.35	117	249201	50.00	ug/L	0.00
108) 1,4-dichlorobenzene-d4	18.14	152	125372	50.00	ug/L	0.00

System Monitoring Compounds						
54) dibromofluoromethane (s)	10.01	113	2251	1.55	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 3.10%#			
55) 1,2-dichloroethane-d4 (s)	10.54	65	2674	1.69	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 3.38%#			
85) toluene-d8 (s)	13.32	98	10408	1.89	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 3.78%#			
110) 4-bromofluorobenzene (s)	16.85	95	8694	3.32	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 6.64%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.40	59	931	5.50	ug/L #	32
4) 1,4-dioxane	12.10	88	249	17.62	ug/L #	76
11) chlorodifluoromethane	3.76	51	1729	1.26	ug/L	64
12) dichlorodifluoromethane	3.75	85	1749	0.94	ug/L	94
15) chloromethane	4.06	50	2565	1.07	ug/L	92
16) vinyl chloride	4.31	62	1745	0.94	ug/L	88
18) bromomethane	4.97	94	1227	1.20	ug/L	88
19) chloroethane	5.16	64	961	1.02	ug/L	66
20) vinyl bromide	5.51	106	1295	0.99	ug/L #	92
21) trichlorofluoromethane	5.65	101	1942	0.94	ug/L	86
22) pentane	5.71	43	3383	1.46	ug/L #	85
23) ethyl ether	6.05	74	632	0.71	ug/L #	78
27) acrolein	6.33	56	527572	2355.89	ug/L #	99
28) 1,1-dichloroethene	6.50	96	1020	0.79	ug/L	89
30) allyl chloride	7.09	76	500	0.55	ug/L #	32
31) acetonitrile	7.07	40	1149	8.58	ug/L #	85
32) iodomethane	6.81	142	1823	0.72	ug/L	90
33) iso-butyl alcohol	10.36	43	1624	19.95	ug/L #	53
34) carbon disulfide	6.94	76	3653	0.75	ug/L	83
35) methylene chloride	7.30	84	1910	1.09	ug/L	89
37) methyl tert butyl ether	7.69	73	3412	0.79	ug/L	89
38) trans-1,2-dichloroethene	7.74	96	1255	0.85	ug/L #	80
39) di-isopropyl ether	8.38	45	7843	1.31	ug/L #	56
41) 1,1-dichloroethane	8.40	63	2231	0.77	ug/L	98
42) chloroprene	8.52	53	2640	1.19	ug/L	94
43) acrylonitrile	7.70	53	1715	3.42	ug/L	98
45) ethyl tert-butyl ether	8.95	59	6408	1.23	ug/L	93
47) 2,2-dichloropropane	9.29	77	1756	0.86	ug/L	83
48) cis-1,2-dichloroethene	9.30	96	1393	0.81	ug/L	92
49) propionitrile	9.40	54	1429	7.48	ug/L	91
50) tert-Butyl Formate	9.80	59	1723	1.22	ug/L #	88
51) bromochloromethane	9.68	128	550	0.68	ug/L	85
52) tetrahydrofuran	9.74	42	821	1.37	ug/L #	40

(#) = qualifier out of range (m) = manual integration
X122918.D MX5242.M Thu Jan 19 11:24:03 2012 MSX Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122918.D Vial: 11
Acq On : 18 Jan 2012 7:42 pm Operator: tamikag
Sample : IC5242-1 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:54:09 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:54:02 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
53)	chloroform	9.76	83	2478	0.88	ug/L		97
56)	freon 113	6.47	151	877	1.00	ug/L		93
57)	methacrylonitrile	9.63	41	1535	1.58	ug/L	#	70
58)	1,1,1-trichloroethane	10.06	97	1609	0.78	ug/L		86
59)	cyclohexane	10.14	84	1412	0.72	ug/L		96
60)	tert amyl alcohol	10.50	59	548	3.62	ug/L	#	42
61)	iso-octane	10.63	57	7473	1.38	ug/L		86
64)	epichlorohydrin	12.66	57	723	6.43	ug/L	#	61
65)	n-butyl alcohol	11.35	56	2616	55.52	ug/L		93
66)	carbon tetrachloride	10.32	117	1328	0.73	ug/L		81
67)	1,1-dichloropropene	10.30	75	1591	0.79	ug/L		96
68)	hexane	8.08	57	2896	1.52	ug/L		90
69)	benzene	10.63	78	5339	0.86	ug/L		93
70)	tert-amyl methyl ether	10.69	73	5891	1.30	ug/L		89
71)	heptane	10.86	57	1700	1.43	ug/L		82
72)	isopropyl acetate	10.58	43	3197	1.10	ug/L	#	90
73)	1,2-dichloroethane	10.66	62	1558	0.80	ug/L		94
74)	trichloroethene	11.58	130	1135	0.75	ug/L	#	77
75)	ethyl acrylate	11.62	55	2447	1.23	ug/L	#	79
76)	tert amyl ethyl ether	11.81	87	2214	0.96	ug/L		92
78)	2-chloroethyl vinyl ether	12.67	63	2961	5.63	ug/L		99
79)	methyl methacrylate	11.97	69	748	0.74	ug/L	#	49
80)	1,2-dichloropropane	11.92	63	1359	0.77	ug/L		91
81)	dibromomethane	12.14	93	706	0.74	ug/L		88
82)	methylcyclohexane	11.84	83	2925	1.33	ug/L		80
83)	bromodichloromethane	12.32	83	1760	0.80	ug/L		96
84)	cis-1,3-dichloropropene	12.94	75	2145	0.75	ug/L		100
86)	4-methyl-2-pentanone	13.09	58	369	0.63	ug/L	#	1
87)	toluene	13.42	92	3222	0.83	ug/L		97
88)	3-methyl-1-butanol	13.16	55	2393	30.13	ug/L		70
89)	trans-1,3-dichloropropene	13.72	75	1847	0.74	ug/L		99
90)	ethyl methacrylate	13.73	69	1668	0.81	ug/L		86
91)	1,1,2-trichloroethane	14.00	83	995	0.81	ug/L		87
92)	2-hexanone	14.26	58	264	0.48	ug/L	#	65
94)	3,3-Dimethyl-1-butanol	14.51	57	2082	13.47	ug/L	#	94
95)	tetrachloroethene	14.21	164	1238	0.93	ug/L		86
96)	1,3-dichloropropane	14.24	76	1897	0.83	ug/L		93
97)	butyl acetate	14.37	56	1445	1.34	ug/L	#	79
98)	dibromochloromethane	14.58	129	1280	0.76	ug/L		89
99)	1,2-dibromoethane	14.77	107	1096	0.78	ug/L		90
101)	chlorobenzene	15.39	112	3741	0.87	ug/L		93
102)	1,1,1,2-tetrachloroethane	15.48	131	1285	0.83	ug/L		92
103)	ethylbenzene	15.48	91	6783	0.95	ug/L		93
104)	m,p-xylene	15.62	106	5598	2.04	ug/L		90
105)	o-xylene	16.17	106	2500	0.88	ug/L		92
106)	styrene	16.18	104	4061	0.85	ug/L		90
107)	bromoform	16.51	173	845	0.77	ug/L		76
109)	isopropylbenzene	16.61	105	6208	0.91	ug/L		99
111)	bromobenzene	17.07	156	1613	0.85	ug/L		92

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122918.D Vial: 11
Acq On : 18 Jan 2012 7:42 pm Operator: tamikag
Sample : IC5242-1 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:54:09 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:54:02 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

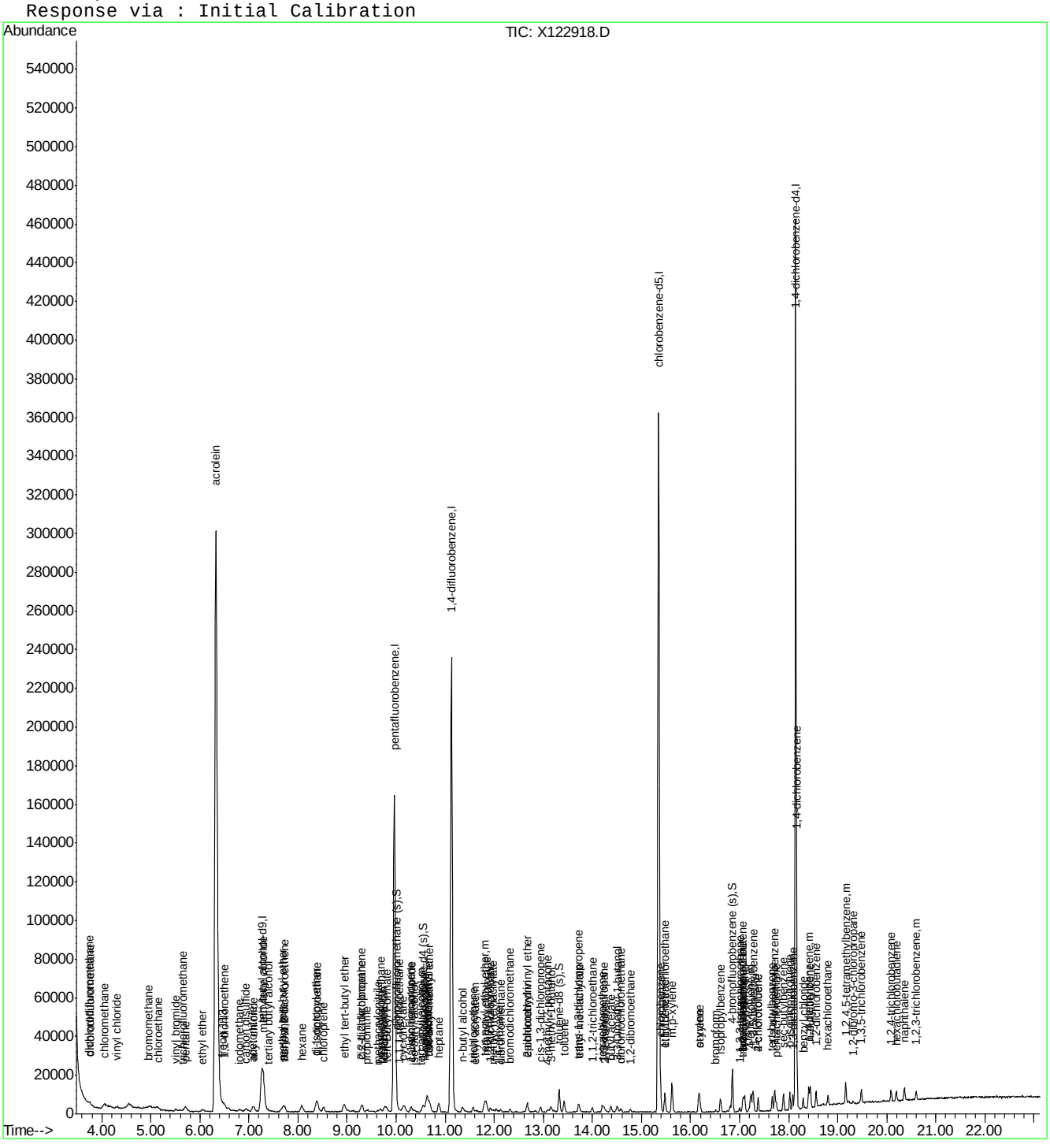
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
112) 1,1,2,2-tetrachloroethane	17.00	83	1663	0.90	ug/L		89
113) trans-1,4-dichloro-2-buten	17.05	53	399	0.85	ug/L		89
114) 1,2,3-trichloropropane	17.07	110	269	0.62	ug/L	#	73
115) n-propylbenzene	17.10	91	8038	0.99	ug/L		98
116) 4-ethyltoluene	17.22	105	8082	1.20	ug/L		97
117) 2-chlorotoluene	17.38	126	1701	1.00	ug/L		98
118) 4-chlorotoluene	17.38	91	5300	1.00	ug/L		98
119) 1,3,5-trimethylbenzene	17.28	105	5561	0.98	ug/L		97
120) tert-butylbenzene	17.66	119	4516	0.92	ug/L		98
121) pentachloroethane	17.75	167	971	0.83	ug/L		95
122) 1,2,4-trimethylbenzene	17.72	105	6766	1.12	ug/L		97
124) sec-butylbenzene	17.89	105	7193	0.98	ug/L		97
125) 1,3-dichlorobenzene	18.08	146	3697	1.04	ug/L		97
126) p-isopropyltoluene	18.02	119	6073	1.01	ug/L		98
127) 1,4-dichlorobenzene	18.17	146	3876	1.09	ug/L		95
128) 1,2-dichlorobenzene	18.56	146	3529	1.03	ug/L		99
129) benzyl chloride	18.30	91	4635	1.37	ug/L		95
130) 1,4-diethylbenzene	18.41	119	4170	1.16	ug/L		97
131) n-butylbenzene	18.44	92	3551	1.06	ug/L		96
132) 1,2,4,5-tetramethylbenzene	19.17	119	6917	1.18	ug/L		96
133) 1,2-dibromo-3-chloropropan	19.32	75	410	1.24	ug/L	#	54
134) 1,3,5-trichlorobenzene	19.48	180	2811	1.02	ug/L		94
135) hexachlorobutadiene	20.20	225	1348	0.99	ug/L		92
136) naphthalene	20.36	128	5526	1.14	ug/L		96
137) 1,2,4-trichlorobenzene	20.09	180	2278	0.98	ug/L		93
138) 1,2,3-trichlorobenzene	20.60	180	1877	0.90	ug/L		97
139) hexachloroethane	18.80	201	884	0.78	ug/L		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122918.D Vial: 11
Acq On : 18 Jan 2012 7:42 pm Operator: tamikag
Sample : IC5242-1 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 9:54 2012 Quant Results File: MX5242.RES

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:01:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122919.D Vial: 12
Acq On : 18 Jan 2012 8:11 pm Operator: tamikag
Sample : IC5242-2 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:51:07 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:50:42 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.27	65	68414	500.00	ug/L	0.00
5) pentafluorobenzene	9.97	168	177376	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.13	114	267660	50.00	ug/L	0.00
93) chlorobenzene-d5	15.35	117	247349	50.00	ug/L	0.00
108) 1,4-dichlorobenzene-d4	18.14	152	124755	50.00	ug/L	0.00

System Monitoring Compounds						
54) dibromofluoromethane (s)	10.01	113	3796	2.85	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 5.70%#			
55) 1,2-dichloroethane-d4 (s)	10.54	65	4126	2.82	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 5.64%#			
85) toluene-d8 (s)	13.32	98	15574	3.10	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 6.20%#			
110) 4-bromofluorobenzene (s)	16.85	95	10662	4.95	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 9.90%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.40	59	1932	10.73	ug/L	92
4) 1,4-dioxane	12.09	88	638	40.94	ug/L #	88
11) chlorodifluoromethane	3.75	51	2837	2.14	ug/L	88
12) dichlorodifluoromethane	3.73	85	3617	1.98	ug/L	93
15) chloromethane	4.05	50	5191	2.27	ug/L	96
16) vinyl chloride	4.30	62	3676	2.04	ug/L	99
18) bromomethane	4.97	94	2499	2.61	ug/L	83
19) chloroethane	5.15	64	1976	2.17	ug/L	94
20) vinyl bromide	5.51	106	2668	2.11	ug/L	94
21) trichlorofluoromethane	5.64	101	4151	2.07	ug/L	84
22) pentane	5.71	43	4894	2.19	ug/L #	90
23) ethyl ether	6.06	74	1942	2.27	ug/L	81
27) acrolein	6.33	56	298660	1455.28	ug/L #	99
28) 1,1-dichloroethene	6.51	96	2832	2.28	ug/L	90
29) acetone	6.58	58	484	4.28	ug/L	87
30) allyl chloride	7.09	76	1781	2.02	ug/L #	65
31) acetonitrile	7.07	40	3125	24.72	ug/L #	68
32) iodomethane	6.80	142	5349	2.18	ug/L	93
33) iso-butyl alcohol	10.36	43	2771	39.80	ug/L	91
34) carbon disulfide	6.94	76	10503	2.25	ug/L	98
35) methylene chloride	7.31	84	4152	2.51	ug/L	95
36) methyl acetate	7.08	43	3737	3.21	ug/L	75
37) methyl tert butyl ether	7.67	73	9630	2.33	ug/L	92
38) trans-1,2-dichloroethene	7.73	96	3386	2.41	ug/L	93
39) di-isopropyl ether	8.37	45	12426	2.15	ug/L #	57
41) 1,1-dichloroethane	8.39	63	6289	2.27	ug/L	94
42) chloroprene	8.52	53	4357	2.02	ug/L	99
43) acrylonitrile	7.69	53	5372	11.17	ug/L	99
45) ethyl tert-butyl ether	8.95	59	10521	2.07	ug/L	95
46) ethyl acetate	9.31	70	235	1.45	ug/L #	1
47) 2,2-dichloropropane	9.29	77	4605	2.38	ug/L	94
48) cis-1,2-dichloroethene	9.29	96	3781	2.30	ug/L	98
49) propionitrile	9.40	54	4121	22.48	ug/L	78

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122919.D Vial: 12
Acq On : 18 Jan 2012 8:11 pm Operator: tamikag
Sample : IC5242-2 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:51:07 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:50:42 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
50)	tert-Butyl Formate	9.80	59	2863	2.08	ug/L	#	85
51)	bromochloromethane	9.68	128	1720	2.20	ug/L		95
52)	tetrahydrofuran	9.74	42	1801	3.40	ug/L		80
53)	chloroform	9.76	83	6323	2.36	ug/L		97
56)	freon 113	6.48	151	1543	1.76	ug/L		95
57)	methacrylonitrile	9.63	41	2735	3.12	ug/L		91
58)	1,1,1-trichloroethane	10.06	97	4385	2.20	ug/L		95
59)	cyclohexane	10.14	84	4280	2.29	ug/L		76
60)	tert amyl alcohol	10.51	59	1179	7.72	ug/L	#	70
61)	iso-octane	10.63	57	11560	2.23	ug/L		93
64)	epichlorohydrin	12.67	57	1289	11.95	ug/L		94
65)	n-butyl alcohol	11.35	56	5325	117.60	ug/L		99
66)	carbon tetrachloride	10.32	117	3930	2.24	ug/L		89
67)	1,1-dichloropropene	10.30	75	4317	2.22	ug/L		95
68)	hexane	8.07	57	4212	2.30	ug/L		97
69)	benzene	10.62	78	14113	2.37	ug/L		100
70)	tert-amyl methyl ether	10.69	73	9525	2.16	ug/L		91
71)	heptane	10.87	57	2526	2.19	ug/L		92
72)	isopropyl acetate	10.57	43	5322	1.84	ug/L		95
73)	1,2-dichloroethane	10.66	62	4364	2.32	ug/L		99
74)	trichloroethene	11.56	130	3187	2.15	ug/L		99
75)	ethyl acrylate	11.61	55	3937	2.01	ug/L	#	81
76)	tert amyl ethyl ether	11.80	87	3682	1.58	ug/L		96
78)	2-chloroethyl vinyl ether	12.67	63	5282	10.23	ug/L		97
79)	methyl methacrylate	11.96	69	2386	2.49	ug/L	#	71
80)	1,2-dichloropropane	11.91	63	3874	2.28	ug/L		96
81)	dibromomethane	12.13	93	2131	2.32	ug/L		99
82)	methylcyclohexane	11.84	83	4446	2.07	ug/L		94
83)	bromodichloromethane	12.31	83	4995	2.35	ug/L		98
84)	cis-1,3-dichloropropene	12.94	75	6519	2.37	ug/L		95
86)	4-methyl-2-pentanone	13.08	58	1244	2.18	ug/L	#	59
87)	toluene	13.42	92	8639	2.32	ug/L		100
88)	3-methyl-1-butanol	13.15	55	4467	61.47	ug/L		73
89)	trans-1,3-dichloropropene	13.71	75	5653	2.35	ug/L		92
90)	ethyl methacrylate	13.73	69	4836	2.47	ug/L		92
91)	1,1,2-trichloroethane	14.00	83	2825	2.39	ug/L		95
92)	2-hexanone	14.26	58	1266	2.39	ug/L		89
94)	3,3-Dimethyl-1-butanol	14.50	57	3756	25.43	ug/L	#	97
95)	tetrachloroethene	14.20	164	2973	2.31	ug/L		95
96)	1,3-dichloropropane	14.24	76	5273	2.38	ug/L		91
97)	butyl acetate	14.37	56	2493	2.39	ug/L		89
98)	dibromochloromethane	14.58	129	3793	2.33	ug/L		93
99)	1,2-dibromoethane	14.77	107	3133	2.30	ug/L		99
101)	chlorobenzene	15.39	112	9898	2.38	ug/L		98
102)	1,1,1,2-tetrachloroethane	15.48	131	3418	2.26	ug/L		96
103)	ethylbenzene	15.48	91	16782	2.46	ug/L		97
104)	m,p-xylene	15.62	106	13019	4.95	ug/L		100
105)	o-xylene	16.16	106	6548	2.40	ug/L		99
106)	styrene	16.18	104	11174	2.41	ug/L		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122919.D Vial: 12
Acq On : 18 Jan 2012 8:11 pm Operator: tamikag
Sample : IC5242-2 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:51:07 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:50:42 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

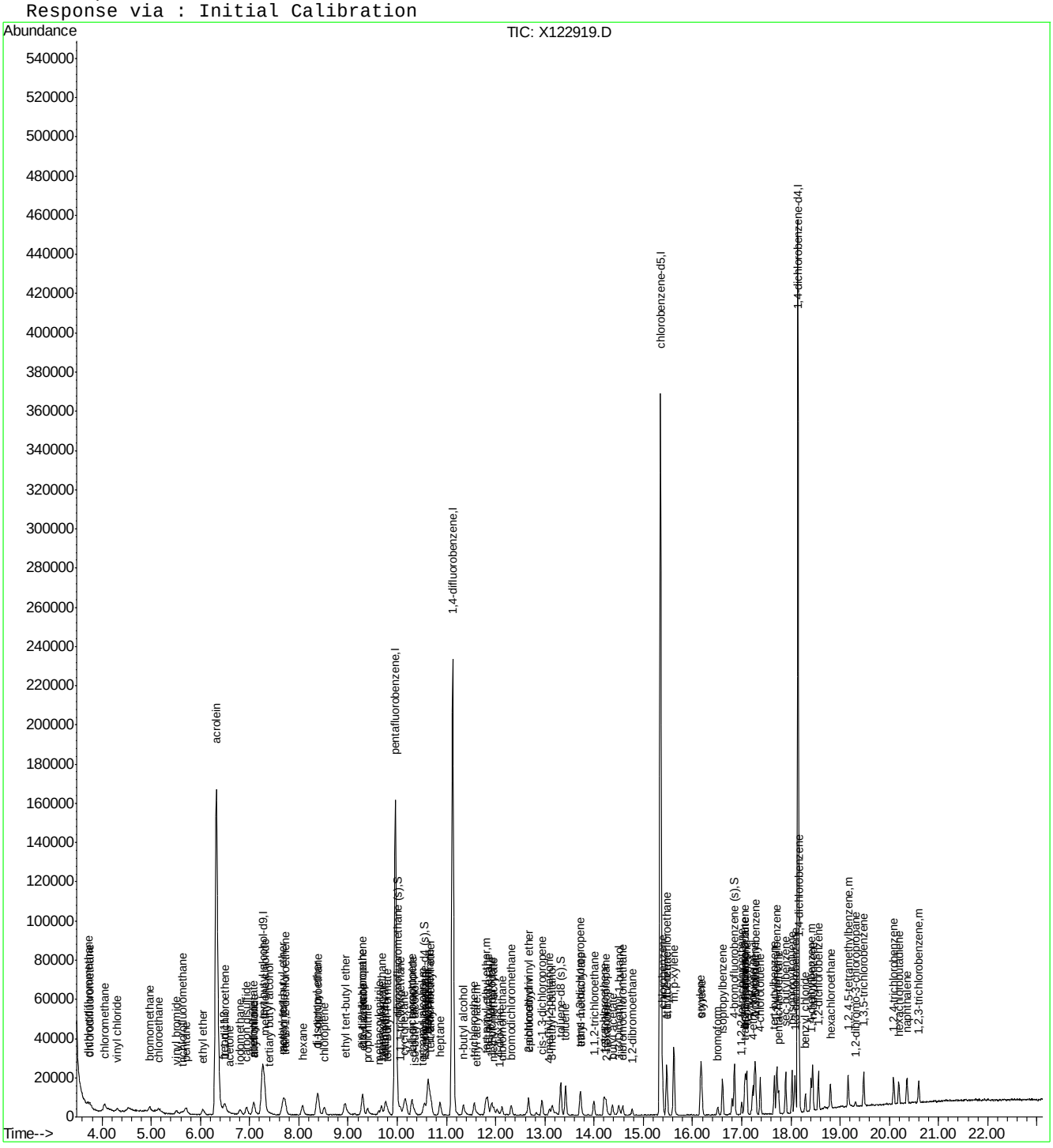
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
107) bromoform	16.51	173	2540	2.39	ug/L		91
109) isopropylbenzene	16.61	105	15744	2.39	ug/L		99
111) bromobenzene	17.07	156	4452	2.43	ug/L		96
112) 1,1,2,2-tetrachloroethane	16.99	83	4628	2.62	ug/L		97
113) trans-1,4-dichloro-2-buten	17.05	53	1032	2.24	ug/L		85
114) 1,2,3-trichloropropane	17.08	110	1055	2.53	ug/L	#	59
115) n-propylbenzene	17.10	91	19582	2.52	ug/L		98
116) 4-ethyltoluene	17.23	105	12288	1.82	ug/L		98
117) 2-chlorotoluene	17.26	126	3996	2.43	ug/L		97
118) 4-chlorotoluene	17.38	91	12549	2.45	ug/L		98
119) 1,3,5-trimethylbenzene	17.28	105	13559	2.47	ug/L		97
120) tert-butylbenzene	17.66	119	11236	2.36	ug/L		97
121) pentachloroethane	17.75	167	2680	2.38	ug/L		96
122) 1,2,4-trimethylbenzene	17.72	105	14872	2.58	ug/L		99
124) sec-butylbenzene	17.89	105	16953	2.39	ug/L		98
125) 1,3-dichlorobenzene	18.08	146	8484	2.49	ug/L		99
126) p-isopropyltoluene	18.03	119	14010	2.40	ug/L		99
127) 1,4-dichlorobenzene	18.17	146	8633	2.53	ug/L		96
128) 1,2-dichlorobenzene	18.56	146	8180	2.48	ug/L		97
129) benzyl chloride	18.29	91	7776	2.37	ug/L		98
130) 1,4-diethylbenzene	18.41	119	6138	1.67	ug/L		94
131) n-butylbenzene	18.44	92	7642	2.36	ug/L		93
132) 1,2,4,5-tetramethylbenzene	19.16	119	9922	1.66	ug/L		100
133) 1,2-dibromo-3-chloropropan	19.31	75	899	2.91	ug/L		85
134) 1,3,5-trichlorobenzene	19.48	180	6229	2.33	ug/L		98
135) hexachlorobutadiene	20.20	225	3013	2.26	ug/L		96
136) naphthalene	20.36	128	11330	2.42	ug/L		97
137) 1,2,4-trichlorobenzene	20.09	180	5063	2.22	ug/L		96
138) 1,2,3-trichlorobenzene	20.60	180	4354	2.12	ug/L		99
139) hexachloroethane	18.80	201	2417	2.18	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122919.D Vial: 12
Acq On : 18 Jan 2012 8:11 pm Operator: tamikag
Sample : IC5242-2 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 9:52 2012 Quant Results File: MX5242.RES

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:01:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122920.D Vial: 13
Acq On : 18 Jan 2012 8:41 pm Operator: tamikag
Sample : IC5242-5 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:48:12 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:48:03 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.27	65	65197	500.00	ug/L	0.00
5) pentafluorobenzene	9.97	168	178535	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.13	114	267508	50.00	ug/L	0.00
93) chlorobenzene-d5	15.35	117	243788	50.00	ug/L	0.00
108) 1,4-dichlorobenzene-d4	18.14	152	121573	50.00	ug/L	0.00

System Monitoring Compounds						
54) dibromofluoromethane (s)	10.01	113	7835	5.59	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 11.18%#			
55) 1,2-dichloroethane-d4 (s)	10.54	65	8704	5.67	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 11.34%#			
85) toluene-d8 (s)	13.32	98	31378	6.06	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 12.12%#			
110) 4-bromofluorobenzene (s)	16.85	95	16200	7.76	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 15.52%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.41	59	4373	25.57	ug/L	93
4) 1,4-dioxane	12.08	88	1724	114.46	ug/L #	94
11) chlorodifluoromethane	3.76	51	6968	5.25	ug/L	97
12) dichlorodifluoromethane	3.74	85	9682	5.34	ug/L	97
15) chloromethane	4.06	50	12373	5.46	ug/L	95
16) vinyl chloride	4.31	62	9475	5.28	ug/L	100
18) bromomethane	4.98	94	6452	7.19	ug/L	93
19) chloroethane	5.16	64	5388	6.08	ug/L	95
20) vinyl bromide	5.52	106	6801	5.43	ug/L	94
21) trichlorofluoromethane	5.64	101	10692	5.37	ug/L	99
22) pentane	5.71	43	12853	5.87	ug/L	95
23) ethyl ether	6.06	74	4455	5.22	ug/L	94
27) acrolein	6.34	56	16543	91.04	ug/L #	92
28) 1,1-dichloroethene	6.51	96	6749	5.48	ug/L	92
29) acetone	6.58	58	433	3.63	ug/L #	76
30) allyl chloride	7.08	76	4793	5.49	ug/L	100
31) acetonitrile	7.08	40	7726	63.43	ug/L #	45
32) iodomethane	6.81	142	12917	5.28	ug/L	100
33) iso-butyl alcohol	10.36	43	3495	49.85	ug/L	95
34) carbon disulfide	6.94	76	25103	5.41	ug/L	97
35) methylene chloride	7.31	84	9169	5.61	ug/L	92
36) methyl acetate	7.08	43	7064	6.28	ug/L	90
37) methyl tert butyl ether	7.67	73	22172	5.39	ug/L	96
38) trans-1,2-dichloroethene	7.73	96	7662	5.50	ug/L	99
39) di-isopropyl ether	8.37	45	30506	5.30	ug/L #	70
40) 2-butanone	9.29	72	568	3.63	ug/L #	31
41) 1,1-dichloroethane	8.39	63	15280	5.57	ug/L	97
42) chloroprene	8.52	53	11422	5.33	ug/L	95
43) acrylonitrile	7.68	53	12774	26.68	ug/L	98
44) vinyl acetate	8.40	86	928	4.22	ug/L	62
45) ethyl tert-butyl ether	8.94	59	26220	5.16	ug/L	99
46) ethyl acetate	9.30	70	821	5.05	ug/L	50
47) 2,2-dichloropropane	9.29	77	10567	5.53	ug/L	94

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122920.D Vial: 13
Acq On : 18 Jan 2012 8:41 pm Operator: tamikag
Sample : IC5242-5 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:48:12 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:48:03 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	cis-1,2-dichloroethene	9.30	96	8875	5.45 ug/L		96
49)	propionitrile	9.40	54	9560	52.18 ug/L		93
50)	tert-Butyl Formate	9.80	59	7121	5.17 ug/L	#	94
51)	bromochloromethane	9.68	128	3987	5.09 ug/L		97
52)	tetrahydrofuran	9.74	42	3324	6.55 ug/L		88
53)	chloroform	9.76	83	14909	5.64 ug/L		96
56)	freon 113	6.48	151	4383	4.97 ug/L		89
57)	methacrylonitrile	9.61	41	5078	5.93 ug/L		97
58)	1,1,1-trichloroethane	10.06	97	10805	5.47 ug/L		96
59)	cyclohexane	10.15	84	10143	5.47 ug/L		99
60)	tert amyl alcohol	10.51	59	3724	24.08 ug/L		88
61)	iso-octane	10.63	57	28853	5.65 ug/L		90
64)	epichlorohydrin	12.66	57	2775	25.90 ug/L		83
65)	n-butyl alcohol	11.34	56	11129	245.11 ug/L		97
66)	carbon tetrachloride	10.31	117	9433	5.46 ug/L		92
67)	1,1-dichloropropene	10.29	75	10425	5.45 ug/L		93
68)	hexane	8.07	57	10361	5.81 ug/L		92
69)	benzene	10.62	78	33391	5.74 ug/L		100
70)	tert-amyl methyl ether	10.68	73	23302	5.35 ug/L		96
71)	heptane	10.86	57	6308	5.56 ug/L		90
72)	isopropyl acetate	10.57	43	15485	5.44 ug/L		98
73)	1,2-dichloroethane	10.66	62	10274	5.56 ug/L		99
74)	trichloroethene	11.57	130	7951	5.44 ug/L		95
75)	ethyl acrylate	11.61	55	10493	5.45 ug/L	#	84
76)	tert amyl ethyl ether	11.81	87	11951	5.14 ug/L		98
78)	2-chloroethyl vinyl ether	12.66	63	13049	25.36 ug/L		99
79)	methyl methacrylate	11.96	69	5221	5.54 ug/L	#	75
80)	1,2-dichloropropane	11.92	63	9125	5.45 ug/L		99
81)	dibromomethane	12.13	93	4851	5.36 ug/L		97
82)	methylcyclohexane	11.84	83	11394	5.36 ug/L		97
83)	bromodichloromethane	12.31	83	11232	5.35 ug/L		98
84)	cis-1,3-dichloropropene	12.94	75	14645	5.41 ug/L		97
86)	4-methyl-2-pentanone	13.09	58	3013	5.33 ug/L		96
87)	toluene	13.42	92	20626	5.65 ug/L		99
88)	3-methyl-1-butanol	13.15	55	8295	117.56 ug/L		86
89)	trans-1,3-dichloropropene	13.72	75	12682	5.32 ug/L		96
90)	ethyl methacrylate	13.73	69	10445	5.41 ug/L		96
91)	1,1,2-trichloroethane	14.00	83	6438	5.55 ug/L		94
92)	2-hexanone	14.26	58	2717	5.16 ug/L		85
94)	3,3-Dimethyl-1-butanol	14.50	57	7632	52.93 ug/L	#	97
95)	tetrachloroethene	14.21	164	6754	5.39 ug/L		99
96)	1,3-dichloropropane	14.24	76	12133	5.67 ug/L		97
97)	butyl acetate	14.37	56	5603	5.54 ug/L		98
98)	dibromochloromethane	14.58	129	8514	5.38 ug/L		94
99)	1,2-dibromoethane	14.77	107	7203	5.45 ug/L		98
101)	chlorobenzene	15.39	112	22654	5.66 ug/L		95
102)	1,1,1,2-tetrachloroethane	15.48	131	8136	5.57 ug/L		96
103)	ethylbenzene	15.48	91	38308	5.85 ug/L		97
104)	m,p-xylene	15.62	106	29396	11.65 ug/L		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122920.D Vial: 13
Acq On : 18 Jan 2012 8:41 pm Operator: tamikag
Sample : IC5242-5 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:48:12 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:48:03 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

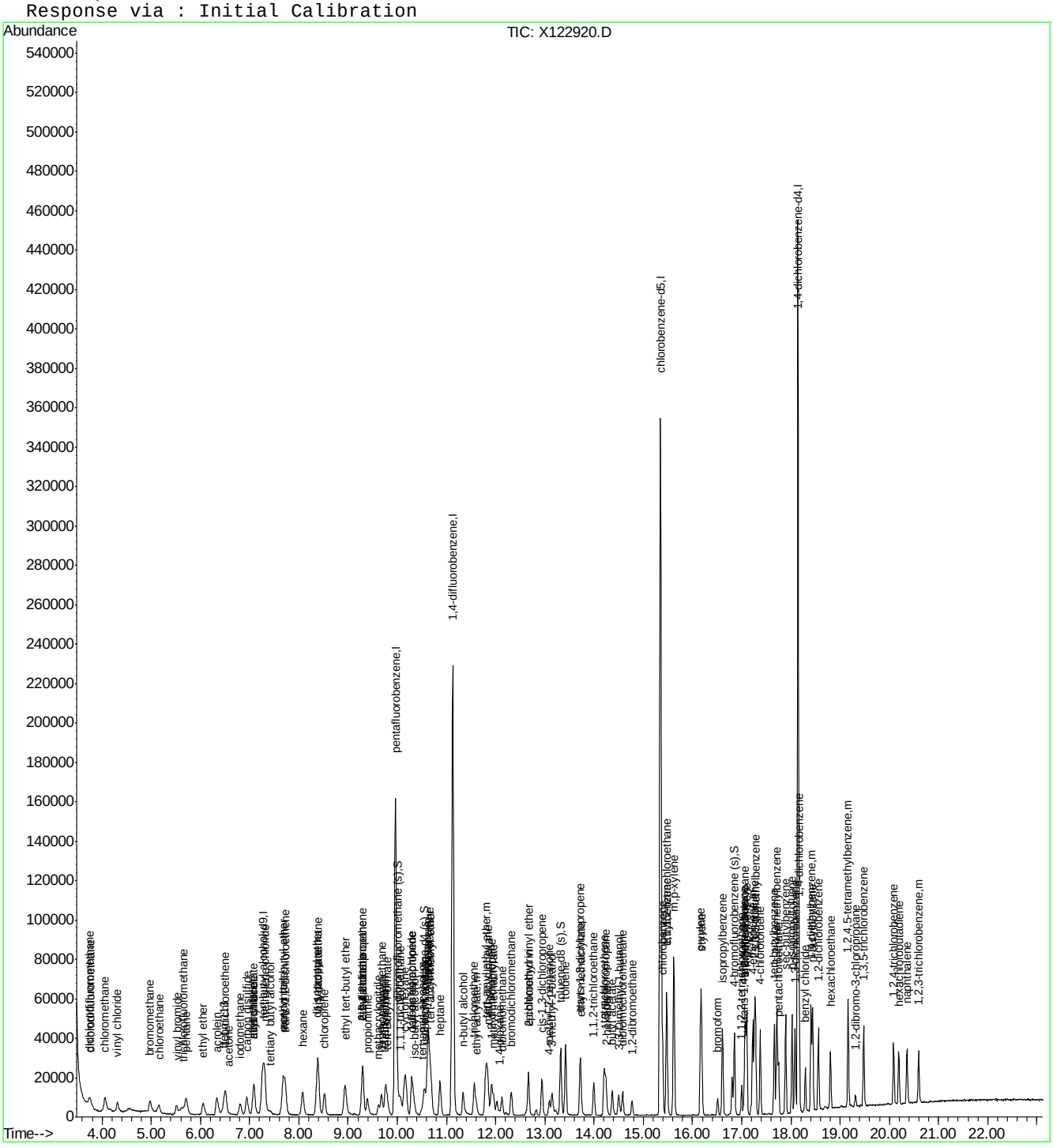
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
105) o-xylene	16.16	106	14669	5.55	ug/L		94
106) styrene	16.18	104	25126	5.62	ug/L		99
107) bromoform	16.51	173	5304	5.09	ug/L		95
109) isopropylbenzene	16.61	105	36790	5.92	ug/L		99
111) bromobenzene	17.07	156	9801	5.59	ug/L		98
112) 1,1,2,2-tetrachloroethane	17.00	83	9660	5.75	ug/L		99
113) trans-1,4-dichloro-2-buten	17.05	53	2402	5.42	ug/L		91
114) 1,2,3-trichloropropane	17.07	110	2208	5.53	ug/L	#	92
115) n-propylbenzene	17.10	91	44597	6.11	ug/L		100
116) 4-ethyltoluene	17.22	105	37189	5.79	ug/L		100
117) 2-chlorotoluene	17.26	126	9145	5.88	ug/L		97
118) 4-chlorotoluene	17.38	91	28201	5.81	ug/L		99
119) 1,3,5-trimethylbenzene	17.28	105	30837	5.94	ug/L		100
120) tert-butylbenzene	17.66	119	26079	5.77	ug/L		99
121) pentachloroethane	17.75	167	5912	5.47	ug/L		96
122) 1,2,4-trimethylbenzene	17.71	105	32232	5.91	ug/L		97
124) sec-butylbenzene	17.89	105	39064	5.80	ug/L		100
125) 1,3-dichlorobenzene	18.08	146	18548	5.73	ug/L		99
126) p-isopropyltoluene	18.03	119	31841	5.74	ug/L		99
127) 1,4-dichlorobenzene	18.17	146	18521	5.69	ug/L		98
128) 1,2-dichlorobenzene	18.56	146	17318	5.46	ug/L		97
129) benzyl chloride	18.29	91	16952	5.36	ug/L		99
130) 1,4-diethylbenzene	18.41	119	19499	5.54	ug/L		99
131) n-butylbenzene	18.44	92	17242	5.56	ug/L		99
132) 1,2,4,5-tetramethylbenzene	19.16	119	31329	5.46	ug/L		99
133) 1,2-dibromo-3-chloropropan	19.31	75	1683	5.74	ug/L		88
134) 1,3,5-trichlorobenzene	19.48	180	13688	5.30	ug/L		97
135) hexachlorobutadiene	20.20	225	7002	5.49	ug/L		97
136) naphthalene	20.36	128	23216	5.11	ug/L		99
137) 1,2,4-trichlorobenzene	20.09	180	10962	4.92	ug/L		99
138) 1,2,3-trichlorobenzene	20.60	180	9684	4.82	ug/L		99
139) hexachloroethane	18.80	201	5722	5.37	ug/L		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122920.D Vial: 13
Acq On : 18 Jan 2012 8:41 pm Operator: tamikag
Sample : IC5242-5 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 9:48 2012 Quant Results File: MX5242.RES

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:01:08 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JA98695

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122921.D Vial: 14
Acq On : 18 Jan 2012 9:10 pm Operator: tamikag
Sample : IC5242-10 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:44:36 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:44:29 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.27	65	68393	500.00	ug/L	0.00
5) pentafluorobenzene	9.97	168	180342	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.13	114	271109	50.00	ug/L	0.00
93) chlorobenzene-d5	15.35	117	250246	50.00	ug/L	0.00
108) 1,4-dichlorobenzene-d4	18.14	152	127815	50.00	ug/L	0.00

System Monitoring Compounds

54) dibromofluoromethane (s)	10.01	113	14806	10.57	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 21.14%#			
55) 1,2-dichloroethane-d4 (s)	10.54	65	16680	10.97	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 21.94%#			
85) toluene-d8 (s)	13.32	98	58065	11.36	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 22.72%#			
110) 4-bromofluorobenzene (s)	16.85	95	26528	12.75	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 25.50%#			

Target Compounds

						Qvalue
2) tertiary butyl alcohol	7.41	59	8835	49.07	ug/L	97
4) 1,4-dioxane	12.08	88	3802	238.39	ug/L #	95
11) chlorodifluoromethane	3.76	51	14075	10.64	ug/L	96
12) dichlorodifluoromethane	3.74	85	18974	10.45	ug/L	97
15) chloromethane	4.06	50	24825	11.07	ug/L	98
16) vinyl chloride	4.31	62	19477	10.94	ug/L	99
18) bromomethane	4.98	94	12578	15.38	ug/L	98
19) chloroethane	5.16	64	10853	12.80	ug/L	97
20) vinyl bromide	5.52	106	12693	10.04	ug/L	95
21) trichlorofluoromethane	5.65	101	21495	10.88	ug/L	94
22) pentane	5.71	43	25725	12.13	ug/L	99
23) ethyl ether	6.06	74	8374	9.65	ug/L	99
27) acrolein	6.33	56	31565	209.71	ug/L #	98
28) 1,1-dichloroethene	6.51	96	12674	10.24	ug/L	98
29) acetone	6.59	58	1013	8.09	ug/L	95
30) allyl chloride	7.09	76	8789	9.95	ug/L	98
31) acetonitrile	7.06	40	14589	124.34	ug/L	92
32) iodomethane	6.81	142	24447	9.86	ug/L	98
33) iso-butyl alcohol	10.35	43	7177	101.69	ug/L	92
34) carbon disulfide	6.94	76	47349	10.12	ug/L	99
35) methylene chloride	7.30	84	16793	10.21	ug/L	96
36) methyl acetate	7.08	43	12044	10.77	ug/L	97
37) methyl tert butyl ether	7.67	73	41727	10.06	ug/L	99
38) trans-1,2-dichloroethene	7.73	96	14054	9.98	ug/L	96
39) di-isopropyl ether	8.38	45	61627	10.77	ug/L	88
40) 2-butanone	9.27	72	1439	8.92	ug/L	86
41) 1,1-dichloroethane	8.40	63	28323	10.29	ug/L	97
42) chloroprene	8.52	53	22677	10.60	ug/L	97
43) acrylonitrile	7.69	53	23499	48.25	ug/L	98
44) vinyl acetate	8.40	86	2139	9.53	ug/L	60
45) ethyl tert-butyl ether	8.94	59	53639	10.58	ug/L	100
46) ethyl acetate	9.30	70	1654	10.08	ug/L	77
47) 2,2-dichloropropane	9.29	77	19984	10.45	ug/L	96

(#) = qualifier out of range (m) = manual integration
X122921.D MX5242.M Thu Jan 19 11:24:24 2012 MSX

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122921.D Vial: 14
Acq On : 18 Jan 2012 9:10 pm Operator: tamikag
Sample : IC5242-10 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:44:36 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:44:29 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48) cis-1,2-dichloroethene	9.30	96	16403	9.97	ug/L		96
49) propionitrile	9.40	54	17756	94.99	ug/L		94
50) tert-Butyl Formate	9.80	59	14555	10.59	ug/L	#	98
51) bromochloromethane	9.68	128	7649	9.58	ug/L		93
52) tetrahydrofuran	9.74	42	5579	11.13	ug/L		91
53) chloroform	9.76	83	26567	9.94	ug/L		99
56) freon 113	6.48	151	9252	10.49	ug/L		93
57) methacrylonitrile	9.62	41	8690	10.07	ug/L		97
58) 1,1,1-trichloroethane	10.06	97	19773	9.88	ug/L		98
59) cyclohexane	10.15	84	19154	10.29	ug/L		81
60) tert amyl alcohol	10.51	59	7250	45.60	ug/L		92
61) iso-octane	10.63	57	57867	11.56	ug/L		91
64) epichlorohydrin	12.66	57	5478	50.57	ug/L		99
65) n-butyl alcohol	11.33	56	23913	524.84	ug/L		97
66) carbon tetrachloride	10.32	117	17670	10.11	ug/L		98
67) 1,1-dichloropropene	10.29	75	19472	10.05	ug/L		97
68) hexane	8.08	57	19815	11.23	ug/L		98
69) benzene	10.62	78	59835	10.18	ug/L		97
70) tert-amyl methyl ether	10.69	73	47044	10.84	ug/L		97
71) heptane	10.87	57	12341	10.94	ug/L		99
72) isopropyl acetate	10.57	43	26778	9.12	ug/L		92
73) 1,2-dichloroethane	10.66	62	18746	10.02	ug/L		96
74) trichloroethene	11.57	130	14544	9.78	ug/L		96
75) ethyl acrylate	11.60	55	18455	9.33	ug/L	#	84
76) tert amyl ethyl ether	11.80	87	22202	9.30	ug/L		97
78) 2-chloroethyl vinyl ether	12.66	63	26016	49.85	ug/L		99
79) methyl methacrylate	11.96	69	9328	9.71	ug/L		92
80) 1,2-dichloropropane	11.92	63	16755	9.85	ug/L		99
81) dibromomethane	12.13	93	8936	9.67	ug/L		98
82) methylcyclohexane	11.84	83	23497	11.16	ug/L		98
83) bromodichloromethane	12.31	83	20609	9.60	ug/L		99
84) cis-1,3-dichloropropene	12.94	75	26815	9.71	ug/L		99
86) 4-methyl-2-pentanone	13.09	58	5538	9.59	ug/L		98
87) toluene	13.42	92	37545	10.20	ug/L		98
88) 3-methyl-1-butanol	13.15	55	15274	217.28	ug/L		93
89) trans-1,3-dichloropropene	13.71	75	23676	9.76	ug/L		95
90) ethyl methacrylate	13.73	69	19308	9.84	ug/L		98
91) 1,1,2-trichloroethane	14.00	83	11494	9.72	ug/L		97
92) 2-hexanone	14.25	58	5153	9.57	ug/L		98
94) 3,3-Dimethyl-1-butanol	14.50	57	15227	103.63	ug/L		98
95) tetrachloroethene	14.21	164	12664	9.81	ug/L		95
96) 1,3-dichloropropane	14.24	76	22141	10.11	ug/L		96
97) butyl acetate	14.37	56	11008	10.76	ug/L		98
98) dibromochloromethane	14.58	129	15888	9.73	ug/L		98
99) 1,2-dibromoethane	14.77	107	13080	9.55	ug/L		98
101) chlorobenzene	15.39	112	41055	9.98	ug/L		97
102) 1,1,1,2-tetrachloroethane	15.48	131	14932	9.94	ug/L		97
103) ethylbenzene	15.48	91	69721	10.47	ug/L		99
104) m,p-xylene	15.62	106	53069	20.62	ug/L		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122921.D Vial: 14
Acq On : 18 Jan 2012 9:10 pm Operator: tamikag
Sample : IC5242-10 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:44:36 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:44:29 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

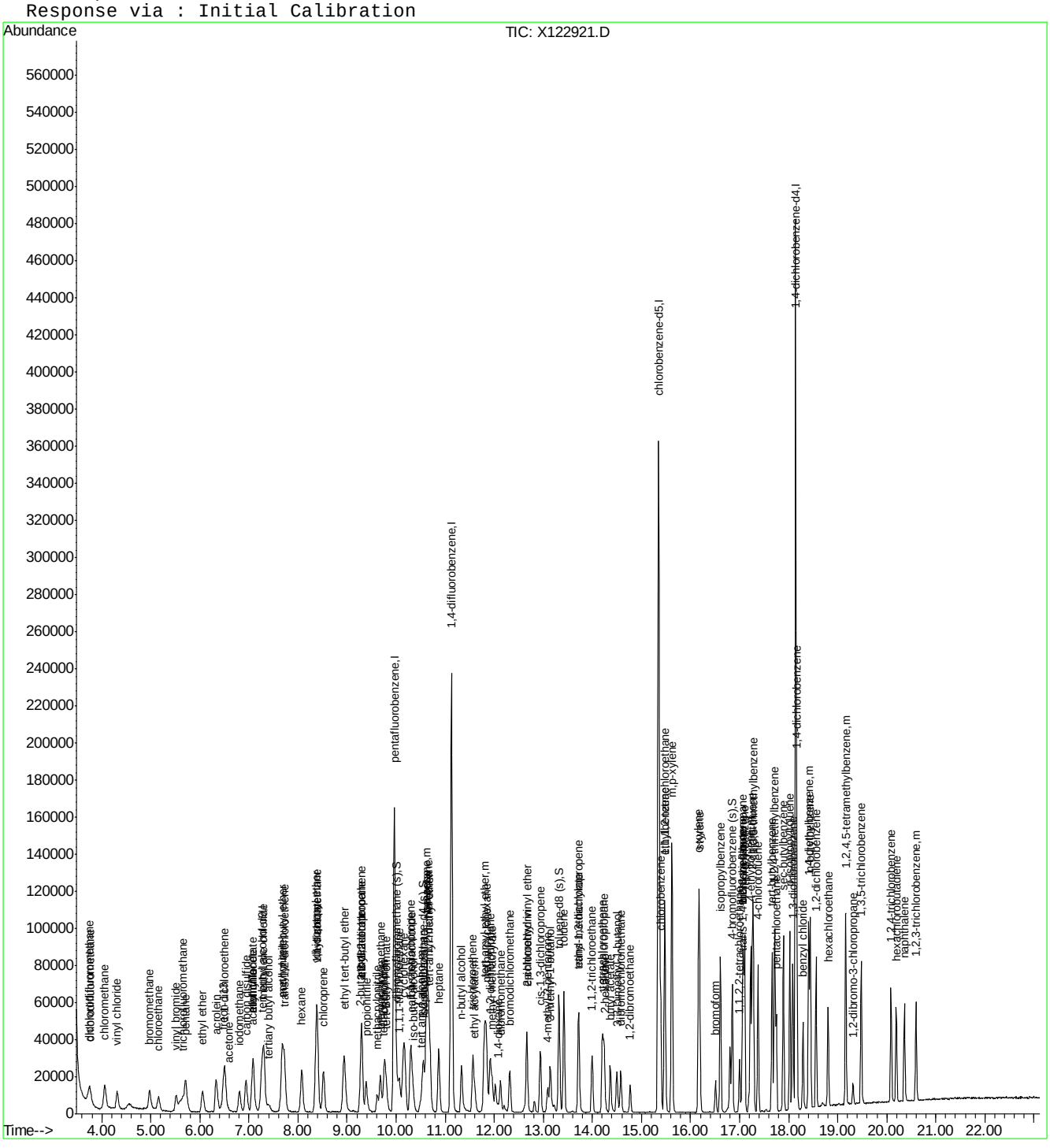
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105) o-xylene	16.16	106	27601	10.22 ug/L	100
106) styrene	16.18	104	46580	10.18 ug/L	97
107) bromoform	16.51	173	9910	9.10 ug/L	93
109) isopropylbenzene	16.61	105	67540	10.42 ug/L	99
111) bromobenzene	17.07	156	18420	10.00 ug/L	99
112) 1,1,2,2-tetrachloroethane	17.00	83	17507	9.88 ug/L	95
113) trans-1,4-dichloro-2-buten	17.05	53	4477	9.51 ug/L #	69
114) 1,2,3-trichloropropane	17.07	110	4363	10.50 ug/L #	91
115) n-propylbenzene	17.10	91	81131	10.73 ug/L	98
116) 4-ethyltoluene	17.23	105	68491	10.18 ug/L	99
117) 2-chlorotoluene	17.26	126	16458	10.08 ug/L	99
118) 4-chlorotoluene	17.38	91	51899	10.21 ug/L	97
119) 1,3,5-trimethylbenzene	17.28	105	57047	10.58 ug/L	99
120) tert-butylbenzene	17.66	119	48907	10.36 ug/L	99
121) pentachloroethane	17.75	167	11460	10.10 ug/L	99
122) 1,2,4-trimethylbenzene	17.72	105	59665	10.50 ug/L	99
124) sec-butylbenzene	17.89	105	73347	10.45 ug/L	100
125) 1,3-dichlorobenzene	18.08	146	34315	10.10 ug/L	100
126) p-isopropyltoluene	18.03	119	59949	10.36 ug/L	99
127) 1,4-dichlorobenzene	18.17	146	34089	9.95 ug/L	99
128) 1,2-dichlorobenzene	18.56	146	33273	9.97 ug/L	99
129) benzyl chloride	18.29	91	35061	10.68 ug/L	98
130) 1,4-diethylbenzene	18.41	119	37173	10.06 ug/L	99
131) n-butylbenzene	18.44	92	33218	10.23 ug/L	97
132) 1,2,4,5-tetramethylbenzene	19.16	119	59491	9.82 ug/L	99
133) 1,2-dibromo-3-chloropropan	19.31	75	3064	9.92 ug/L	91
134) 1,3,5-trichlorobenzene	19.48	180	26989	9.92 ug/L	94
135) hexachlorobutadiene	20.20	225	13164	9.77 ug/L	97
136) naphthalene	20.36	128	44778	9.23 ug/L	100
137) 1,2,4-trichlorobenzene	20.09	180	21895	9.20 ug/L	96
138) 1,2,3-trichlorobenzene	20.60	180	19309	8.95 ug/L	99
139) hexachloroethane	18.80	201	10591	9.32 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122921.D Vial: 14
Acq On : 18 Jan 2012 9:10 pm Operator: tamikag
Sample : IC5242-10 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 9:44 2012 Quant Results File: MX5242.RES

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:01:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122922.D Vial: 15
Acq On : 18 Jan 2012 9:40 pm Operator: tamikag
Sample : IC5242-20 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:43:41 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:43:38 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.26	65	62755	500.00	ug/L	-0.01
5) pentafluorobenzene	9.96	168	178336	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.13	114	267069	50.00	ug/L	0.00
93) chlorobenzene-d5	15.35	117	246917	50.00	ug/L	0.00
108) 1,4-dichlorobenzene-d4	18.14	152	123799	50.00	ug/L	0.00

System Monitoring Compounds						
54) dibromofluoromethane (s)	10.01	113	71307	51.99	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 103.98%			
55) 1,2-dichloroethane-d4 (s)	10.54	65	78052	52.55	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 105.10%			
85) toluene-d8 (s)	13.32	98	268613	54.59	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 109.18%			
110) 4-bromofluorobenzene (s)	16.85	95	109697	56.12	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 112.24%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.40	59	16580	100.48	ug/L	95
4) 1,4-dioxane	12.07	88	7248	493.74	ug/L #	99
11) chlorodifluoromethane	3.75	51	25805	19.64	ug/L	97
12) dichlorodifluoromethane	3.73	85	37512	21.20	ug/L	96
15) chloromethane	4.06	50	46365	21.23	ug/L	97
16) vinyl chloride	4.31	62	36718	21.16	ug/L	98
18) bromomethane	4.97	94	22595	32.19	ug/L	97
19) chloroethane	5.15	64	19052	23.79	ug/L	95
20) vinyl bromide	5.51	106	24639	19.62	ug/L	99
21) trichlorofluoromethane	5.63	101	41472	21.67	ug/L	99
22) pentane	5.70	43	43652	21.11	ug/L	99
23) ethyl ether	6.05	74	17764	20.94	ug/L	98
27) acrolein	6.33	56	59598	601.20	ug/L #	99
28) 1,1-dichloroethene	6.50	96	25421	21.05	ug/L	99
29) acetone	6.57	58	2469	19.93	ug/L	96
30) allyl chloride	7.08	76	17701	20.36	ug/L	99
31) acetonitrile	7.05	40	23663	205.30	ug/L	90
32) iodomethane	6.80	142	49389	20.20	ug/L	100
33) iso-butyl alcohol	10.35	43	13909	199.06	ug/L	94
34) carbon disulfide	6.94	76	95830	20.96	ug/L	99
35) methylene chloride	7.30	84	33911	21.15	ug/L	95
36) methyl acetate	7.07	43	21339	19.07	ug/L	97
37) methyl tert butyl ether	7.67	73	84796	20.91	ug/L	100
38) trans-1,2-dichloroethene	7.72	96	29579	21.69	ug/L	98
39) di-isopropyl ether	8.37	45	117275	20.99	ug/L	92
40) 2-butanone	9.27	72	3158	19.73	ug/L	80
41) 1,1-dichloroethane	8.39	63	58287	21.92	ug/L	99
42) chloroprene	8.52	53	42757	20.28	ug/L	99
43) acrylonitrile	7.67	53	50124	105.50	ug/L	97
44) vinyl acetate	8.38	86	4425	19.91	ug/L	70
45) ethyl tert-butyl ether	8.94	59	101849	20.42	ug/L	100
46) ethyl acetate	9.30	70	3244	19.99	ug/L	97
47) 2,2-dichloropropane	9.29	77	39535	21.22	ug/L	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122922.D Vial: 15
Acq On : 18 Jan 2012 9:40 pm Operator: tamikag
Sample : IC5242-20 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:43:41 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:43:38 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	cis-1,2-dichloroethene	9.29	96	34020	21.25 ug/L		97
49)	propionitrile	9.38	54	38526	211.40 ug/L		94
50)	tert-Butyl Formate	9.79	59	27161	19.97 ug/L	#	98
51)	bromochloromethane	9.68	128	16151	20.63 ug/L		98
52)	tetrahydrofuran	9.72	42	10526	21.68 ug/L		97
53)	chloroform	9.76	83	55106	21.14 ug/L		99
56)	freon 113	6.48	151	17234	19.69 ug/L		95
57)	methacrylonitrile	9.61	41	17764	21.10 ug/L		97
58)	1,1,1-trichloroethane	10.06	97	40544	20.66 ug/L		98
59)	cyclohexane	10.14	84	38167	20.99 ug/L		95
60)	tert amyl alcohol	10.49	59	14945	93.51 ug/L		96
61)	iso-octane	10.63	57	106462	22.07 ug/L		99
64)	epichlorohydrin	12.66	57	10621	99.37 ug/L		98
65)	n-butyl alcohol	11.33	56	45107	1006.65 ug/L		99
66)	carbon tetrachloride	10.32	117	35817	21.08 ug/L		98
67)	1,1-dichloropropene	10.29	75	40593	21.72 ug/L		98
68)	hexane	8.07	57	37349	22.03 ug/L		98
69)	benzene	10.62	78	124488	22.05 ug/L		98
70)	tert-amyl methyl ether	10.68	73	88266	20.86 ug/L		98
71)	heptane	10.86	57	24257	22.52 ug/L		99
72)	isopropyl acetate	10.56	43	50839	16.90 ug/L		88
73)	1,2-dichloroethane	10.65	62	39410	21.88 ug/L		98
74)	trichloroethene	11.56	130	30655	21.27 ug/L		96
75)	ethyl acrylate	11.60	55	39733	20.51 ug/L	#	86
76)	tert amyl ethyl ether	11.80	87	46834	19.88 ug/L		98
78)	2-chloroethyl vinyl ether	12.66	63	50530	97.74 ug/L		99
79)	methyl methacrylate	11.95	69	19813	21.27 ug/L		97
80)	1,2-dichloropropane	11.92	63	35052	21.23 ug/L		94
81)	dibromomethane	12.13	93	18777	20.85 ug/L		96
82)	methylcyclohexane	11.84	83	43669	21.44 ug/L		94
83)	bromodichloromethane	12.31	83	43476	20.77 ug/L		100
84)	cis-1,3-dichloropropene	12.94	75	57144	21.37 ug/L		99
86)	4-methyl-2-pentanone	13.08	58	11714	20.80 ug/L		97
87)	toluene	13.42	92	77153	21.73 ug/L		98
88)	3-methyl-1-butanol	13.14	55	28436	414.31 ug/L		94
89)	trans-1,3-dichloropropene	13.71	75	49968	21.23 ug/L		98
90)	ethyl methacrylate	13.72	69	40609	21.37 ug/L		98
91)	1,1,2-trichloroethane	13.99	83	24115	20.94 ug/L		99
92)	2-hexanone	14.25	58	11002	21.01 ug/L		95
94)	3,3-Dimethyl-1-butanol	14.49	57	29313	202.92 ug/L		99
95)	tetrachloroethene	14.20	164	28407	23.18 ug/L		97
96)	1,3-dichloropropane	14.23	76	46118	21.82 ug/L		98
97)	butyl acetate	14.36	56	20954	21.04 ug/L		99
98)	dibromochloromethane	14.58	129	32865	20.54 ug/L		98
99)	1,2-dibromoethane	14.77	107	27911	20.87 ug/L		98
101)	chlorobenzene	15.39	112	87046	21.98 ug/L		96
102)	1,1,1,2-tetrachloroethane	15.48	131	31260	21.48 ug/L		99
103)	ethylbenzene	15.47	91	145319	22.94 ug/L		100
104)	m,p-xylene	15.62	106	113453	46.50 ug/L		99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122922.D Vial: 15
Acq On : 18 Jan 2012 9:40 pm Operator: tamikag
Sample : IC5242-20 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:43:41 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:43:38 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

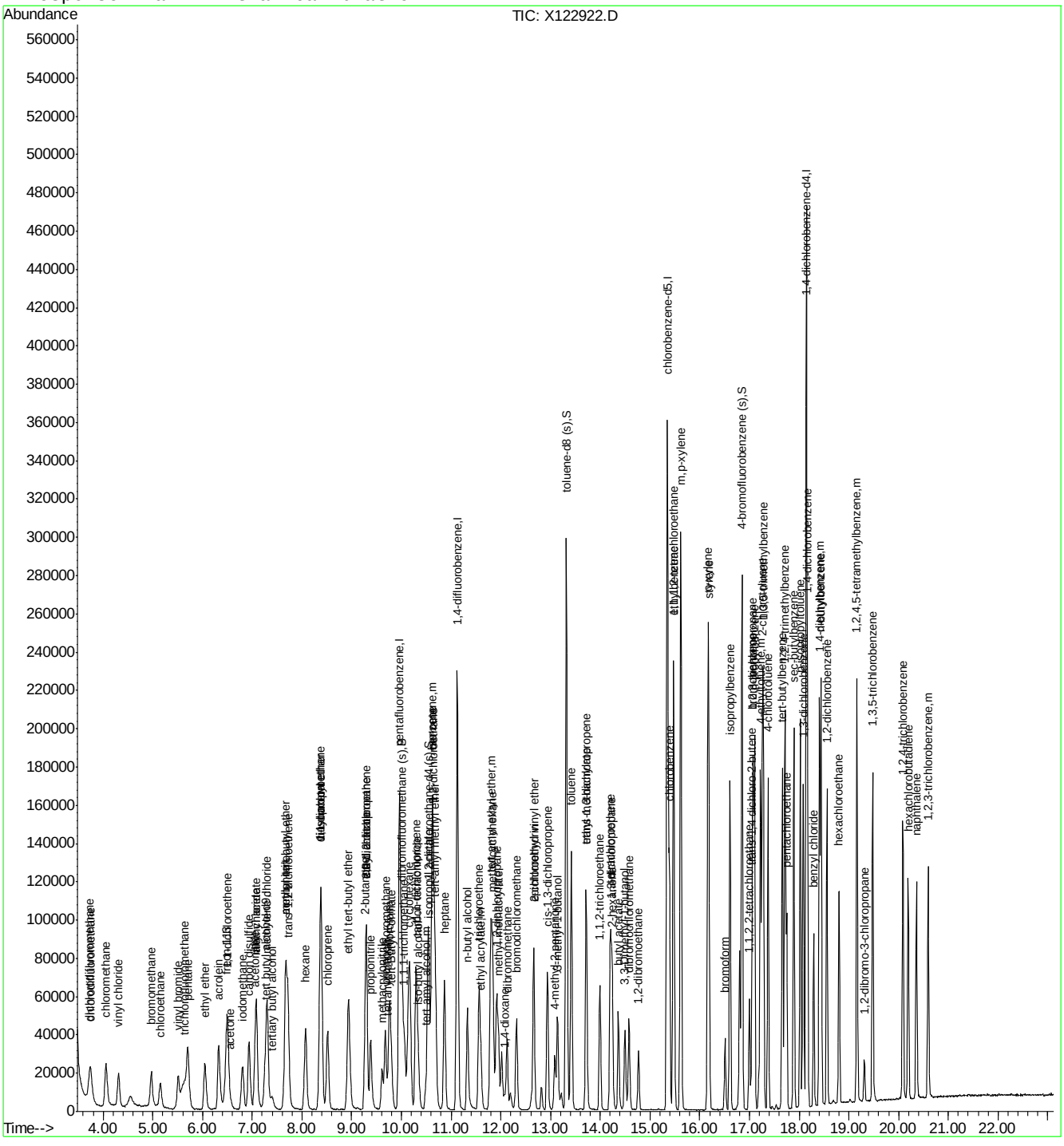
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105) o-xylene	16.16	106	57518	22.18 ug/L	99
106) styrene	16.18	104	98702	22.57 ug/L	98
107) bromoform	16.51	173	21337	19.80 ug/L	98
109) isopropylbenzene	16.61	105	140396	23.28 ug/L	100
111) bromobenzene	17.07	156	38573	22.23 ug/L	97
112) 1,1,2,2-tetrachloroethane	16.99	83	36121	21.43 ug/L	98
113) trans-1,4-dichloro-2-buten	17.05	53	9488	21.10 ug/L	98
114) 1,2,3-trichloropropane	17.07	110	8550	21.68 ug/L #	93
115) n-propylbenzene	17.10	91	169989	24.52 ug/L	99
116) 4-ethyltoluene	17.22	105	139426	21.90 ug/L	99
117) 2-chlorotoluene	17.26	126	34884	22.85 ug/L	98
118) 4-chlorotoluene	17.37	91	109565	23.12 ug/L	99
119) 1,3,5-trimethylbenzene	17.28	105	117862	23.58 ug/L	99
120) tert-butylbenzene	17.66	119	101391	23.00 ug/L	99
121) pentachloroethane	17.75	167	22659	20.83 ug/L	99
122) 1,2,4-trimethylbenzene	17.71	105	124627	23.69 ug/L	97
124) sec-butylbenzene	17.89	105	153272	23.55 ug/L	99
125) 1,3-dichlorobenzene	18.08	146	72650	22.87 ug/L	98
126) p-isopropyltoluene	18.03	119	127935	23.95 ug/L	99
127) 1,4-dichlorobenzene	18.17	146	73158	22.82 ug/L	100
128) 1,2-dichlorobenzene	18.56	146	70393	22.45 ug/L	97
129) benzyl chloride	18.29	91	66142	21.09 ug/L	100
130) 1,4-diethylbenzene	18.41	119	75431	21.45 ug/L	99
131) n-butylbenzene	18.44	92	73245	24.65 ug/L	96
132) 1,2,4,5-tetramethylbenzene	19.16	119	124529	21.65 ug/L	99
133) 1,2-dibromo-3-chloropropan	19.31	75	6247	21.18 ug/L	96
134) 1,3,5-trichlorobenzene	19.48	180	60520	24.16 ug/L	98
135) hexachlorobutadiene	20.20	225	30020	24.21 ug/L	97
136) naphthalene	20.36	128	97709	21.07 ug/L	99
137) 1,2,4-trichlorobenzene	20.09	180	50785	22.79 ug/L	99
138) 1,2,3-trichlorobenzene	20.59	180	44220	21.57 ug/L	100
139) hexachloroethane	18.80	201	23018	21.25 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122922.D Vial: 15
Acq On : 18 Jan 2012 9:40 pm Operator: tamikag
Sample : IC5242-20 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 9:43 2012 Quant Results File: MX5242.RES

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:01:08 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JA98695

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122923.D Vial: 16
Acq On : 18 Jan 2012 10:09 pm Operator: tamikag
Sample : ICC5242-50 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:18:18 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:18:13 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.27	65	62891	500.00	ug/L	0.00
5) pentafluorobenzene	9.97	168	172451	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.13	114	259040	50.00	ug/L	0.00
93) chlorobenzene-d5	15.35	117	243789	50.00	ug/L	0.00
108) 1,4-dichlorobenzene-d4	18.14	152	124234	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.01	113	71101	50.00	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 100.00%			
55) 1,2-dichloroethane-d4 (s)	10.54	65	77733	50.00	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 100.00%			
85) toluene-d8 (s)	13.32	98	267756	50.00	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 100.00%			
110) 4-bromofluorobenzene (s)	16.85	95	109986	50.00	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 100.00%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.40	59	42097	250.00	ug/L	100
4) 1,4-dioxane	12.08	88	18304	1250.00	ug/L #	100
11) chlorodifluoromethane	3.76	51	65659	50.00	ug/L	100
12) dichlorodifluoromethane	3.74	85	90610	50.00	ug/L	100
15) chloromethane	4.07	50	113570	50.00	ug/L	100
16) vinyl chloride	4.32	62	88493	50.00	ug/L	100
18) bromomethane	4.97	94	48553	50.00	ug/L	100
19) chloroethane	5.15	64	46497	50.00	ug/L	100
20) vinyl bromide	5.52	106	64206	50.00	ug/L	100
21) trichlorofluoromethane	5.63	101	98705	50.00	ug/L	100
22) pentane	5.71	43	109496	50.00	ug/L	100
23) ethyl ether	6.05	74	44398	50.00	ug/L	100
27) acrolein	6.33	56	141945	500.00	ug/L	100
28) 1,1-dichloroethene	6.51	96	64551	50.00	ug/L	100
29) acetone	6.57	58	6805	50.00	ug/L	100
30) allyl chloride	7.08	76	46159	50.00	ug/L	100
31) acetonitrile	7.06	40	60377	497.28	ug/L	100
32) iodomethane	6.81	142	128654	50.00	ug/L	100
33) iso-butyl alcohol	10.35	43	35163	500.00	ug/L	100
34) carbon disulfide	6.94	76	245179	50.00	ug/L	100
35) methylene chloride	7.30	84	84587	50.00	ug/L	100
36) methyl acetate	7.07	43	57180	50.02	ug/L	100
37) methyl tert butyl ether	7.67	73	217057	50.00	ug/L	100
38) trans-1,2-dichloroethene	7.72	96	73194	50.00	ug/L	100
39) di-isopropyl ether	8.38	45	285628	50.00	ug/L	100
40) 2-butanone	9.26	72	8452	50.00	ug/L	100
41) 1,1-dichloroethane	8.39	63	143154	50.00	ug/L	100
42) chloroprene	8.52	53	106618	50.00	ug/L	100
43) acrylonitrile	7.68	53	127869	250.00	ug/L	100
44) vinyl acetate	8.39	86	11253	50.00	ug/L	100
45) ethyl tert-butyl ether	8.94	59	252569	50.00	ug/L	100
46) ethyl acetate	9.29	70	8285	50.00	ug/L	100
47) 2,2-dichloropropane	9.29	77	100062	50.00	ug/L	100

(#) = qualifier out of range (m) = manual integration
X122923.D MX5242.M Thu Jan 19 11:24:36 2012 MSX Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122923.D Vial: 16
Acq On : 18 Jan 2012 10:09 pm Operator: tamikag
Sample : ICC5242-50 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:18:18 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:18:13 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	cis-1,2-dichloroethene	9.30	96	85153	50.00	ug/L		100
49)	propionitrile	9.38	54	96415	500.00	ug/L		100
50)	tert-Butyl Formate	9.79	59	68221	50.00	ug/L	#	100
51)	bromochloromethane	9.68	128	41235	50.00	ug/L		100
52)	tetrahydrofuran	9.72	42	25754	50.00	ug/L		100
53)	chloroform	9.76	83	138211	50.00	ug/L		100
56)	freon 113	6.49	151	44185	50.00	ug/L		100
57)	methacrylonitrile	9.61	41	44567	50.00	ug/L		100
58)	1,1,1-trichloroethane	10.06	97	103553	50.00	ug/L		100
59)	cyclohexane	10.14	84	98367	50.00	ug/L		100
60)	tert amyl alcohol	10.50	59	39745	258.86	ug/L	#	14
61)	iso-octane	10.63	57	257179	50.00	ug/L		100
64)	epichlorohydrin	12.66	57	26484	250.00	ug/L		100
65)	n-butyl alcohol	11.33	56	114064	2500.00	ug/L		100
66)	carbon tetrachloride	10.32	117	90359	50.00	ug/L		100
67)	1,1-dichloropropene	10.29	75	100710	50.00	ug/L		100
68)	hexane	8.07	57	89597	50.00	ug/L		100
69)	benzene	10.62	78	306583	50.00	ug/L		100
70)	tert-amyl methyl ether	10.68	73	216667	50.00	ug/L		100
71)	heptane	10.87	57	56670	50.00	ug/L		100
72)	isopropyl acetate	10.57	43	155718	48.86	ug/L		100
73)	1,2-dichloroethane	10.66	62	96499	50.00	ug/L		100
74)	trichloroethene	11.57	130	77521	50.00	ug/L		100
75)	ethyl acrylate	11.60	55	98808	50.00	ug/L		99
76)	tert amyl ethyl ether	11.80	87	118992	50.02	ug/L	#	100
77)	2-nitropropane	12.63	46	1041	50.00	ug/L		100
78)	2-chloroethyl vinyl ether	12.66	63	128781	250.00	ug/L		100
79)	methyl methacrylate	11.95	69	49516	50.00	ug/L		100
80)	1,2-dichloropropane	11.92	63	87495	50.00	ug/L		100
81)	dibromomethane	12.13	93	47496	50.00	ug/L		100
82)	methylcyclohexane	11.84	83	106990	50.00	ug/L		100
83)	bromodichloromethane	12.31	83	110215	50.00	ug/L		100
84)	cis-1,3-dichloropropene	12.94	75	142983	50.00	ug/L		100
86)	4-methyl-2-pentanone	13.08	58	29962	50.00	ug/L		100
87)	toluene	13.42	92	192320	50.00	ug/L		100
88)	3-methyl-1-butanol	13.14	55	70338	1000.00	ug/L		100
89)	trans-1,3-dichloropropene	13.71	75	125748	50.00	ug/L		100
90)	ethyl methacrylate	13.73	69	102009	50.00	ug/L		100
91)	1,1,2-trichloroethane	13.99	83	60855	50.00	ug/L		100
92)	2-hexanone	14.25	58	28230	50.00	ug/L		100
94)	3,3-Dimethyl-1-butanol	14.49	57	74676	500.00	ug/L		100
95)	tetrachloroethene	14.20	164	68022	50.00	ug/L		100
96)	1,3-dichloropropane	14.23	76	115085	50.00	ug/L		100
97)	butyl acetate	14.36	56	51266	50.00	ug/L		100
98)	dibromochloromethane	14.58	129	85864	50.00	ug/L		100
99)	1,2-dibromoethane	14.77	107	71782	50.00	ug/L		100
101)	chlorobenzene	15.39	112	216476	50.00	ug/L		100
102)	1,1,1,2-tetrachloroethane	15.48	131	78726	50.00	ug/L		100
103)	ethylbenzene	15.47	91	353421	50.00	ug/L		100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122923.D Vial: 16
Acq On : 18 Jan 2012 10:09 pm Operator: tamikag
Sample : ICC5242-50 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:18:18 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:18:13 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

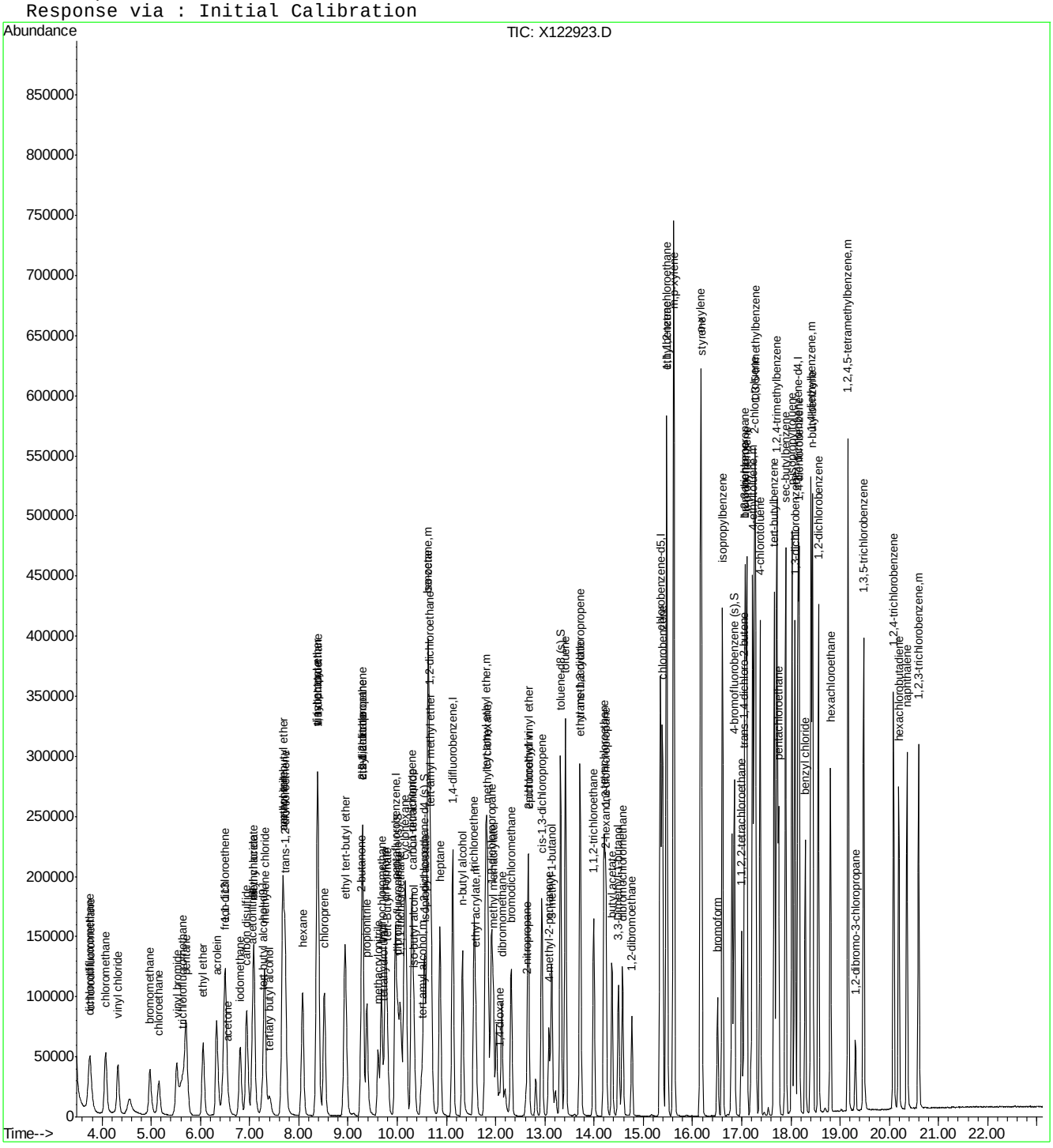
Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
104) m,p-xylene	15.62	106	271193	100.00	ug/L		100
105) o-xylene	16.16	106	142532	50.00	ug/L		100
106) styrene	16.18	104	242803	50.00	ug/L		100
107) bromoform	16.51	173	57318	50.00	ug/L		100
109) isopropylbenzene	16.61	105	343615	50.00	ug/L		100
111) bromobenzene	17.07	156	96655	50.00	ug/L		100
112) 1,1,2,2-tetrachloroethane	17.00	83	93135	50.00	ug/L		100
113) trans-1,4-dichloro-2-buten	17.05	53	24759	49.56	ug/L		100
114) 1,2,3-trichloropropane	17.07	110	21919	50.00	ug/L		100
115) n-propylbenzene	17.10	91	399355	50.00	ug/L		100
116) 4-ethyltoluene	17.22	105	346152	50.00	ug/L		100
117) 2-chlorotoluene	17.26	126	85344	50.00	ug/L		100
118) 4-chlorotoluene	17.37	91	265961	50.00	ug/L		100
119) 1,3,5-trimethylbenzene	17.28	105	283304	50.00	ug/L		100
120) tert-butylbenzene	17.66	119	248655	50.00	ug/L		100
121) pentachloroethane	17.75	167	58217	50.00	ug/L		100
122) 1,2,4-trimethylbenzene	17.71	105	298919	50.00	ug/L		100
124) sec-butylbenzene	17.89	105	371989	50.00	ug/L		100
125) 1,3-dichlorobenzene	18.08	146	177557	50.00	ug/L		100
126) p-isopropyltoluene	18.03	119	304646	50.00	ug/L		100
127) 1,4-dichlorobenzene	18.17	146	178539	50.00	ug/L		100
128) 1,2-dichlorobenzene	18.56	146	173599	50.00	ug/L		100
129) benzyl chloride	18.29	91	166963	50.00	ug/L		100
130) 1,4-diethylbenzene	18.41	119	189701	50.00	ug/L		100
131) n-butylbenzene	18.44	92	168931	50.00	ug/L		100
132) 1,2,4,5-tetramethylbenzene	19.16	119	309858	50.08	ug/L	#	100
133) 1,2-dibromo-3-chloropropan	19.31	75	16009	50.00	ug/L		100
134) 1,3,5-trichlorobenzene	19.48	180	139561	50.00	ug/L		100
135) hexachlorobutadiene	20.20	225	68777	50.00	ug/L		100
136) naphthalene	20.36	128	253036	50.00	ug/L		100
137) 1,2,4-trichlorobenzene	20.09	180	121682	50.00	ug/L		100
138) 1,2,3-trichlorobenzene	20.59	180	111540	50.00	ug/L		100
139) hexachloroethane	18.80	201	58282	50.00	ug/L		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122923.D Vial: 16
Acq On : 18 Jan 2012 10:09 pm Operator: tamikag
Sample : ICC5242-50 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 9:34 2012 Quant Results File: MX5242.RES

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:01:08 2012
Response via : Initial Calibration



ACCUTEST LABORATORIES JA98695

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122924.D Vial: 17
Acq On : 18 Jan 2012 10:39 pm Operator: tamikag
Sample : IC5242-100 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:36:37 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:36:30 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.27	65	64377	500.00	ug/L	0.00
5) pentafluorobenzene	9.96	168	183708	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.13	114	277211	50.00	ug/L	0.00
93) chlorobenzene-d5	15.35	117	260663	50.00	ug/L	0.00
108) 1,4-dichlorobenzene-d4	18.15	152	133465	50.00	ug/L	0.00

System Monitoring Compounds						
54) dibromofluoromethane (s)	10.01	113	135450	89.42	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 178.84%#			
55) 1,2-dichloroethane-d4 (s)	10.54	65	146756	88.61	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 177.22%#			
85) toluene-d8 (s)	13.32	98	489267	85.38	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 170.76%#			
110) 4-bromofluorobenzene (s)	16.85	95	200561	84.87	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 169.74%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.41	59	79551	461.52	ug/L	70
4) 1,4-dioxane	12.07	88	35386	2360.77	ug/L #	98
11) chlorodifluoromethane	3.76	51	128540	91.89	ug/L	98
12) dichlorodifluoromethane	3.74	85	175495	90.91	ug/L	100
15) chloromethane	4.08	50	217854	90.03	ug/L	98
16) vinyl chloride	4.33	62	173598	92.08	ug/L	99
18) bromomethane	4.97	94	78498	75.88	ug/L	100
19) chloroethane	5.15	64	85960	86.77	ug/L	100
20) vinyl bromide	5.51	106	126950	92.80	ug/L	100
21) trichlorofluoromethane	5.63	101	191121	90.88	ug/L	98
22) pentane	5.70	43	198482	85.08	ug/L	100
23) ethyl ether	6.05	74	85617	90.51	ug/L	99
27) acrolein	6.34	56	2014	6.66	ug/L #	67
28) 1,1-dichloroethene	6.51	96	121646	88.45	ug/L	99
29) acetone	6.56	58	11651	80.36	ug/L	94
30) allyl chloride	7.08	76	87100	88.57	ug/L	95
31) acetonitrile	7.05	40	110403	858.26	ug/L #	70
32) iodomethane	6.81	142	247468	90.28	ug/L	99
33) iso-butyl alcohol	10.35	43	66567	888.55	ug/L	98
34) carbon disulfide	6.94	76	460864	88.23	ug/L	99
35) methylene chloride	7.30	84	161763	89.76	ug/L	99
36) methyl acetate	7.07	43	107959	88.62	ug/L	98
37) methyl tert butyl ether	7.67	73	408988	88.44	ug/L	100
38) trans-1,2-dichloroethene	7.72	96	136982	87.84	ug/L	99
39) di-isopropyl ether	8.37	45	545555	89.65	ug/L	100
40) 2-butanone	9.26	72	15839	87.96	ug/L	99
41) 1,1-dichloroethane	8.39	63	268042	87.88	ug/L	99
42) chloroprene	8.52	53	204857	90.18	ug/L	100
43) acrylonitrile	7.67	53	236795	434.60	ug/L	99
44) vinyl acetate	8.38	86	21677	90.41	ug/L	72
45) ethyl tert-butyl ether	8.94	59	487062	90.51	ug/L	99
46) ethyl acetate	9.29	70	15730	89.11	ug/L	92
47) 2,2-dichloropropane	9.29	77	188653	88.49	ug/L	98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122924.D Vial: 17
Acq On : 18 Jan 2012 10:39 pm Operator: tamikag
Sample : IC5242-100 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:36:37 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:36:30 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	cis-1,2-dichloroethene	9.29	96	161696	89.13	ug/L		99
49)	propionitrile	9.38	54	182230	887.12	ug/L		97
50)	tert-Butyl Formate	9.79	59	132087	90.88	ug/L	#	99
51)	bromochloromethane	9.68	128	78913	89.82	ug/L		98
52)	tetrahydrofuran	9.72	42	47701	86.93	ug/L		99
53)	chloroform	9.76	83	263286	89.41	ug/L		100
56)	freon 113	6.48	151	85214	90.52	ug/L		97
57)	methacrylonitrile	9.61	41	84252	88.73	ug/L		99
58)	1,1,1-trichloroethane	10.06	97	198580	90.01	ug/L		99
59)	cyclohexane	10.14	84	182713	87.18	ug/L		96
60)	tert amyl alcohol	10.49	59	75618	446.50	ug/L		99
61)	iso-octane	10.63	57	463822	84.65	ug/L		100
64)	epichlorohydrin	12.66	57	52410	462.30	ug/L		98
65)	n-butyl alcohol	11.32	56	217240	4449.26	ug/L		98
66)	carbon tetrachloride	10.32	117	173109	89.51	ug/L		98
67)	1,1-dichloropropene	10.29	75	189001	87.68	ug/L		97
68)	hexane	8.07	57	162391	84.68	ug/L		100
69)	benzene	10.62	78	574448	87.54	ug/L		100
70)	tert-amyl methyl ether	10.68	73	416325	89.78	ug/L		100
71)	heptane	10.87	57	103474	85.31	ug/L		98
72)	isopropyl acetate	10.56	43	290640	87.21	ug/L		98
73)	1,2-dichloroethane	10.65	62	183197	88.70	ug/L		99
74)	trichloroethene	11.56	130	145470	87.68	ug/L		98
75)	ethyl acrylate	11.60	55	185105	87.53	ug/L	#	85
76)	tert amyl ethyl ether	11.80	87	227934	89.50	ug/L		99
77)	2-nitropropane	12.63	46	2067	92.77	ug/L	#	33
78)	2-chloroethyl vinyl ether	12.66	63	253649	460.13	ug/L		99
79)	methyl methacrylate	11.95	69	94165	88.85	ug/L		98
80)	1,2-dichloropropane	11.91	63	167798	89.60	ug/L		97
81)	dibromomethane	12.13	93	91489	90.00	ug/L		98
82)	methylcyclohexane	11.84	83	198554	86.71	ug/L		96
83)	bromodichloromethane	12.31	83	213178	90.37	ug/L		99
84)	cis-1,3-dichloropropene	12.94	75	271505	88.72	ug/L		99
86)	4-methyl-2-pentanone	13.08	58	56697	88.41	ug/L		96
87)	toluene	13.42	92	360852	87.67	ug/L		99
88)	3-methyl-1-butanol	13.13	55	133132	1768.68	ug/L		96
89)	trans-1,3-dichloropropene	13.71	75	240015	89.18	ug/L		100
90)	ethyl methacrylate	13.72	69	193866	88.80	ug/L		98
91)	1,1,2-trichloroethane	13.99	83	117262	90.03	ug/L		97
92)	2-hexanone	14.24	58	52287	86.54	ug/L		99
94)	3,3-Dimethyl-1-butanol	14.49	57	142779	894.10	ug/L		99
95)	tetrachloroethene	14.20	164	126373	86.88	ug/L		98
96)	1,3-dichloropropane	14.23	76	219076	89.02	ug/L		99
97)	butyl acetate	14.36	56	99264	90.55	ug/L		98
98)	dibromochloromethane	14.58	129	165443	90.10	ug/L		100
99)	1,2-dibromoethane	14.77	107	138142	89.99	ug/L		98
101)	chlorobenzene	15.39	112	410790	88.74	ug/L		99
102)	1,1,1,2-tetrachloroethane	15.48	131	150914	89.64	ug/L		99
103)	ethylbenzene	15.47	91	656057	86.81	ug/L		100

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122924.D Vial: 17
Acq On : 18 Jan 2012 10:39 pm Operator: tamikag
Sample : IC5242-100 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 09:36:37 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 09:36:30 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

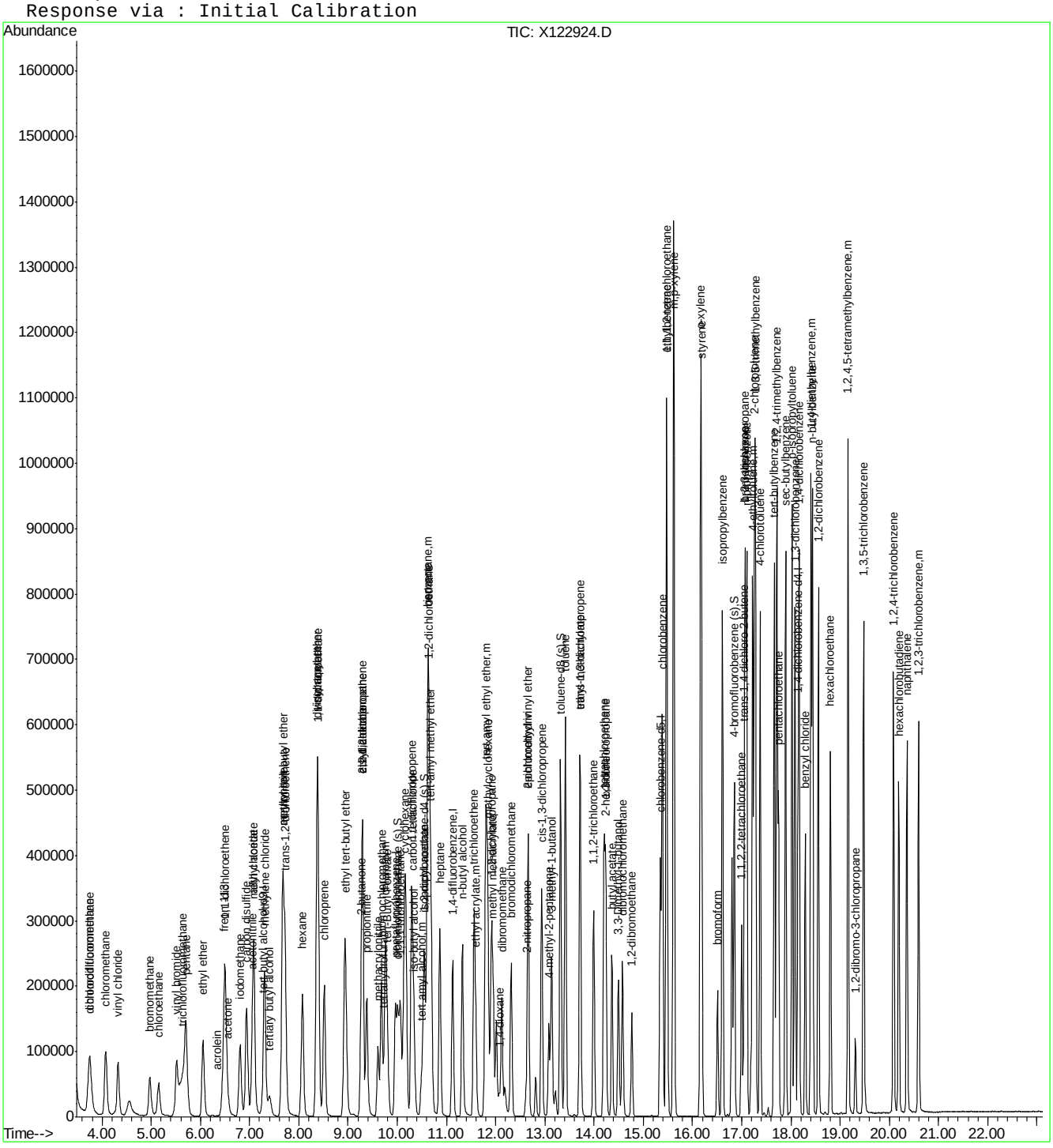
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
104) m,p-xylene	15.62	106	506508	174.68 ug/L	96
105) o-xylene	16.16	106	268857	88.21 ug/L	99
106) styrene	16.18	104	453762	87.39 ug/L	99
107) bromoform	16.51	173	111059	90.61 ug/L	98
109) isopropylbenzene	16.61	105	636384	86.20 ug/L	99
111) bromobenzene	17.07	156	183845	88.53 ug/L	99
112) 1,1,2,2-tetrachloroethane	17.00	83	178098	89.00 ug/L	100
113) trans-1,4-dichloro-2-buten	17.05	53	47403	89.11 ug/L	98
114) 1,2,3-trichloropropane	17.07	110	41643	88.42 ug/L #	89
115) n-propylbenzene	17.10	91	731951	85.30 ug/L	99
116) 4-ethyltoluene	17.22	105	642113	86.34 ug/L	99
117) 2-chlorotoluene	17.26	126	161509	88.08 ug/L	98
118) 4-chlorotoluene	17.37	91	502146	87.87 ug/L	98
119) 1,3,5-trimethylbenzene	17.28	105	528173	86.77 ug/L	99
120) tert-butylbenzene	17.66	119	467811	87.56 ug/L	97
121) pentachloroethane	17.75	167	114946	91.89 ug/L	98
122) 1,2,4-trimethylbenzene	17.71	105	557800	86.85 ug/L	100
124) sec-butylbenzene	17.89	105	689770	86.30 ug/L	99
125) 1,3-dichlorobenzene	18.08	146	336136	88.11 ug/L	99
126) p-isopropyltoluene	18.02	119	565739	86.43 ug/L	98
127) 1,4-dichlorobenzene	18.17	146	339852	88.59 ug/L	99
128) 1,2-dichlorobenzene	18.56	146	333459	89.40 ug/L	99
129) benzyl chloride	18.29	91	321703	89.68 ug/L	99
130) 1,4-diethylbenzene	18.41	119	356078	87.36 ug/L	100
131) n-butylbenzene	18.44	92	313039	86.24 ug/L	99
132) 1,2,4,5-tetramethylbenzene	19.16	119	587335	88.22 ug/L	99
133) 1,2-dibromo-3-chloropropan	19.31	75	31167	90.61 ug/L	93
134) 1,3,5-trichlorobenzene	19.48	180	268055	89.39 ug/L	98
135) hexachlorobutadiene	20.20	225	131683	89.11 ug/L	99
136) naphthalene	20.36	128	496139	91.26 ug/L	99
137) 1,2,4-trichlorobenzene	20.09	180	238693	91.30 ug/L	98
138) 1,2,3-trichlorobenzene	20.59	180	219241	91.48 ug/L	99
139) hexachloroethane	18.80	201	116178	92.78 ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122924.D Vial: 17
Acq On : 18 Jan 2012 10:39 pm Operator: tamikag
Sample : IC5242-100 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 9:36 2012 Quant Results File: MX5242.RES

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:01:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122925.D Vial: 18
Acq On : 18 Jan 2012 11:08 pm Operator: tamikag
Sample : IC5242-200 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 11:04:49 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:04:45 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.28	65	62113	500.00	ug/L	0.01
5) pentafluorobenzene	9.97	168	178707	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.13	114	270454	50.00	ug/L	0.00
93) chlorobenzene-d5	15.35	117	252909	50.00	ug/L	0.00
108) 1,4-dichlorobenzene-d4	18.15	152	130932	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.01	113	266441	198.21	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 396.42%#			
55) 1,2-dichloroethane-d4 (s)	10.54	65	285257	193.53	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 387.06%#			
85) toluene-d8 (s)	13.32	98	916786	180.88	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 361.76%#			
110) 4-bromofluorobenzene (s)	16.85	95	383241	169.50	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 339.00%#			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.41	59	170155	1017.22	ug/L	70
4) 1,4-dioxane	12.07	88	77350	5612.49	ug/L #	97
11) chlorodifluoromethane	3.76	51	267685	191.86	ug/L	98
12) dichlorodifluoromethane	3.73	85	346868	189.78	ug/L	100
15) chloromethane	4.08	50	418747	176.55	ug/L	100
16) vinyl chloride	4.33	62	338992	190.95	ug/L	99
18) bromomethane	4.97	94	68073	78.53	ug/L	98
19) chloroethane	5.14	64	121437	125.59	ug/L	98
20) vinyl bromide	5.51	106	242102	196.15	ug/L	99
21) trichlorofluoromethane	5.63	101	369899	183.76	ug/L	98
22) pentane	5.70	43	403490	176.61	ug/L	100
23) ethyl ether	6.05	74	159520	190.74	ug/L	99
27) acrolein	6.34	56	3734	12.47	ug/L #	87
28) 1,1-dichloroethene	6.50	96	221963	178.62	ug/L	99
29) acetone	6.57	58	23602	197.85	ug/L	98
30) allyl chloride	7.08	76	161872	181.94	ug/L	94
31) acetonitrile	7.05	40	227949	1789.46	ug/L	87
32) iodomethane	6.80	142	455587	185.62	ug/L	98
33) iso-butyl alcohol	10.35	43	144851	2065.20	ug/L	98
34) carbon disulfide	6.94	76	835436	173.84	ug/L	98
35) methylene chloride	7.30	84	298683	170.81	ug/L	99
36) methyl acetate	7.07	43	225684	192.33	ug/L	98
37) methyl tert butyl ether	7.67	73	743249	172.69	ug/L	100
38) trans-1,2-dichloroethene	7.72	96	250078	174.75	ug/L	98
39) di-isopropyl ether	8.37	45	1114576	182.49	ug/L	98
40) 2-butanone	9.25	72	30409	203.67	ug/L	80
41) 1,1-dichloroethane	8.39	63	483770	174.79	ug/L	100
42) chloroprene	8.51	53	427251	191.96	ug/L	99
43) acrylonitrile	7.67	53	437504	907.40	ug/L	99
44) vinyl acetate	8.38	86	44783	208.70	ug/L	92
45) ethyl tert-butyl ether	8.94	59	1003941	190.05	ug/L	99
46) ethyl acetate	9.29	70	32611	208.10	ug/L	76
47) 2,2-dichloropropane	9.29	77	338375	172.16	ug/L	97

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122925.D Vial: 18
Acq On : 18 Jan 2012 11:08 pm Operator: tamikag
Sample : IC5242-200 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 11:04:49 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:04:45 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Compound	R.T.	QIon	Response	Conc Unit	Qvalue
48) cis-1,2-dichloroethene	9.29	96	295208	178.98 ug/L	99
49) propionitrile	9.38	54	341563	1876.25 ug/L	99
50) tert-Butyl Formate	9.80	59	278097	194.22 ug/L #	98
51) bromochloromethane	9.68	128	146345	194.73 ug/L	98
52) tetrahydrofuran	9.72	42	92311	172.81 ug/L	98
53) chloroform	9.76	83	482148	176.64 ug/L	98
56) freon 113	6.48	151	177420	201.23 ug/L	96
57) methacrylonitrile	9.61	41	157590	178.44 ug/L	99
58) 1,1,1-trichloroethane	10.06	97	364405	176.98 ug/L	99
59) cyclohexane	10.14	84	329863	177.69 ug/L	92
60) tert amyl alcohol	10.50	59	168590	1132.79 ug/L	100
61) iso-octane	10.63	57	932021	175.52 ug/L	99
64) epichlorohydrin	12.66	57	111840	964.17 ug/L	98
65) n-butyl alcohol	11.33	56	461056	9695.91 ug/L	99
66) carbon tetrachloride	10.32	117	316998	181.77 ug/L	98
67) 1,1-dichloropropene	10.29	75	346268	178.16 ug/L	97
68) hexane	8.07	57	338888	179.16 ug/L	99
69) benzene	10.62	78	1028374	169.22 ug/L	100
70) tert-amyl methyl ether	10.69	73	853215	182.49 ug/L	99
71) heptane	10.87	57	216025	182.54 ug/L	99
72) isopropyl acetate	10.56	43	609893	208.65 ug/L	98
73) 1,2-dichloroethane	10.65	62	333866	169.85 ug/L	100
74) trichloroethene	11.56	130	268243	182.95 ug/L	98
75) ethyl acrylate	11.60	55	403125	198.04 ug/L	99
76) tert amyl ethyl ether	11.80	87	490037	215.10 ug/L	99
78) 2-chloroethyl vinyl ether	12.66	63	537908	1011.97 ug/L	99
79) methyl methacrylate	11.95	69	175480	180.69 ug/L	98
80) 1,2-dichloropropane	11.91	63	310142	175.96 ug/L	98
81) dibromomethane	12.13	93	170420	182.09 ug/L	99
82) methylcyclohexane	11.84	83	403445	177.29 ug/L	98
83) bromodichloromethane	12.31	83	395882	184.51 ug/L	99
84) cis-1,3-dichloropropene	12.94	75	497953	180.40 ug/L	98
86) 4-methyl-2-pentanone	13.08	58	106438	181.98 ug/L	98
87) toluene	13.42	92	650265	172.36 ug/L	98
88) 3-methyl-1-butanol	13.13	55	280533	3820.64 ug/L	99
89) trans-1,3-dichloropropene	13.71	75	436753	181.02 ug/L	99
90) ethyl methacrylate	13.72	69	350300	175.47 ug/L	97
91) 1,1,2-trichloroethane	13.99	83	216766	180.91 ug/L	98
92) 2-hexanone	14.24	58	98268	178.62 ug/L	99
94) 3,3-Dimethyl-1-butanol	14.49	57	300836	1917.42 ug/L	99
95) tetrachloroethene	14.20	164	225749	169.12 ug/L	99
96) 1,3-dichloropropane	14.23	76	396211	173.85 ug/L	98
97) butyl acetate	14.36	56	206829	188.43 ug/L	98
98) dibromochloromethane	14.58	129	305992	185.31 ug/L	100
99) 1,2-dibromoethane	14.77	107	255921	184.96 ug/L	98
101) chlorobenzene	15.39	112	738338	172.04 ug/L	98
102) 1,1,1,2-tetrachloroethane	15.48	131	274759	178.40 ug/L	99
103) ethylbenzene	15.47	91	1154235	160.95 ug/L	97
104) m,p-xylene	15.62	106	890676	319.49 ug/L	93

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122925.D Vial: 18
Acq On : 18 Jan 2012 11:08 pm Operator: tamikag
Sample : IC5242-200 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 11:04:49 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:04:45 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

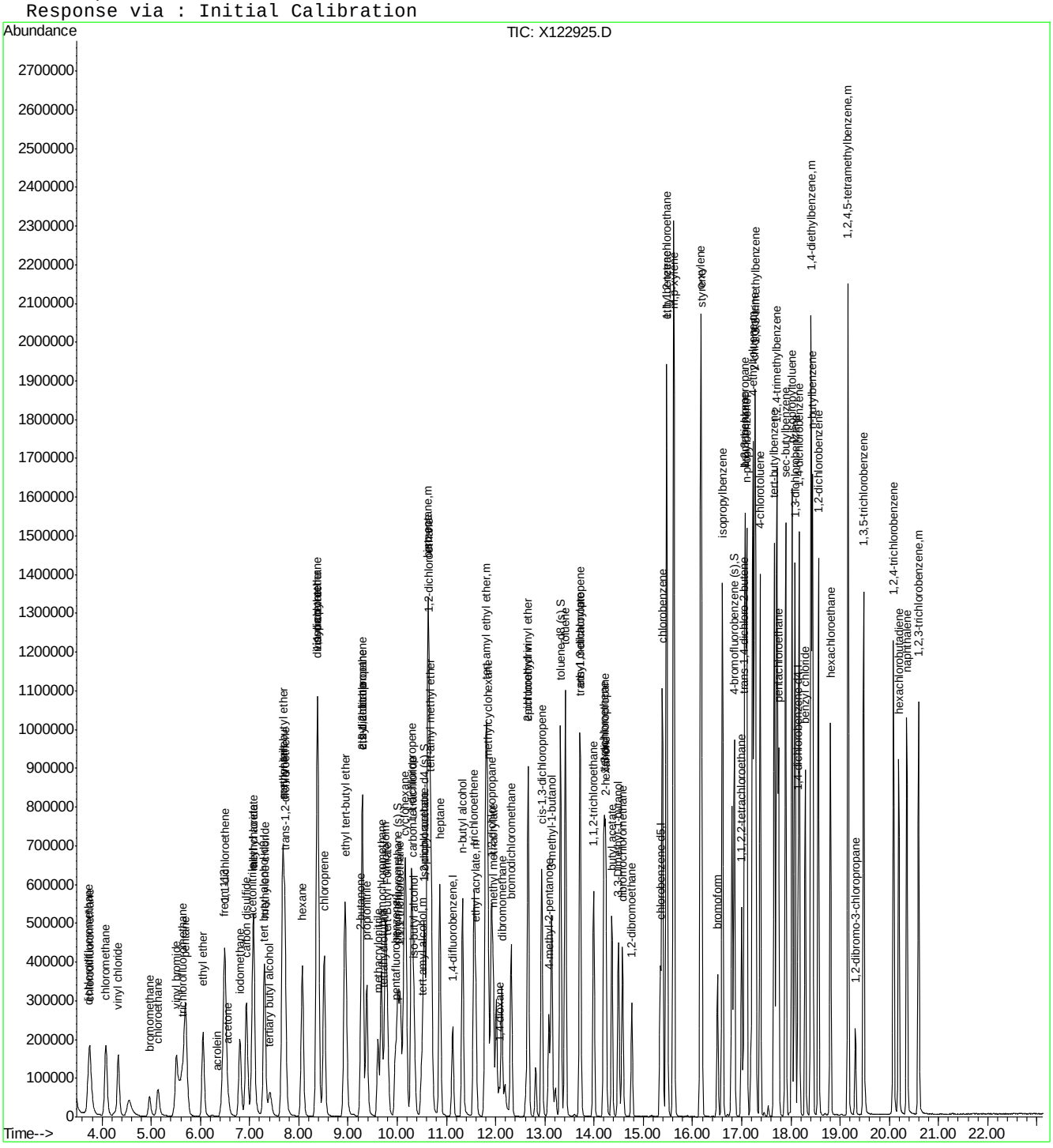
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105) o-xylene	16.16	106	480386	169.81 ug/L	96
106) styrene	16.18	104	799093	167.15 ug/L	97
107) bromoform	16.51	173	208970	192.99 ug/L	96
109) isopropylbenzene	16.61	105	1130040	161.01 ug/L	97
111) bromobenzene	17.07	156	333135	171.22 ug/L	99
112) 1,1,2,2-tetrachloroethane	17.00	83	327594	171.32 ug/L	100
113) trans-1,4-dichloro-2-buten	17.05	53	87931	182.12 ug/L	97
114) 1,2,3-trichloropropane	17.07	110	76117	167.58 ug/L #	93
115) n-propylbenzene	17.10	91	1279919	157.03 ug/L	97
116) 4-ethyltoluene	17.23	105	1320133	183.72 ug/L	97
117) 2-chlorotoluene	17.26	126	292059	164.34 ug/L	95
118) 4-chlorotoluene	17.37	91	900832	162.53 ug/L	98
119) 1,3,5-trimethylbenzene	17.28	105	941359	158.54 ug/L	99
120) tert-butylbenzene	17.66	119	830876	163.77 ug/L	96
121) pentachloroethane	17.75	167	219299	184.34 ug/L	99
122) 1,2,4-trimethylbenzene	17.71	105	983400	153.64 ug/L	98
124) sec-butylbenzene	17.89	105	1209046	158.32 ug/L	96
125) 1,3-dichlorobenzene	18.08	146	607339	163.36 ug/L	99
126) p-isopropyltoluene	18.03	119	995590	158.00 ug/L	95
127) 1,4-dichlorobenzene	18.17	146	614680	163.38 ug/L	98
128) 1,2-dichlorobenzene	18.56	146	603424	167.70 ug/L	98
129) benzyl chloride	18.29	91	655122	176.98 ug/L	99
130) 1,4-diethylbenzene	18.41	119	732941	190.80 ug/L	100
131) n-butylbenzene	18.44	92	559203	159.00 ug/L	95
132) 1,2,4,5-tetramethylbenzene	19.16	119	1190597	190.10 ug/L	97
133) 1,2-dibromo-3-chloropropan	19.31	75	58522	180.76 ug/L	95
134) 1,3,5-trichlorobenzene	19.48	180	475414	164.89 ug/L	99
135) hexachlorobutadiene	20.20	225	238611	167.92 ug/L	99
136) naphthalene	20.36	128	902618	175.33 ug/L	98
137) 1,2,4-trichlorobenzene	20.09	180	432722	178.48 ug/L	99
138) 1,2,3-trichlorobenzene	20.59	180	400528	186.82 ug/L	99
139) hexachloroethane	18.80	201	213750	186.62 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122925.D Vial: 18
Acq On : 18 Jan 2012 11:08 pm Operator: tamikag
Sample : IC5242-200 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 11:04 2012 Quant Results File: MX5242.RES

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:01:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122927.D Vial: 21
Acq On : 19 Jan 2012 12:06 am Operator: tamikag
Sample : ICV5242-50 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 11:19:57 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) tert butyl alcohol-d9	7.27	65	62889	500.00	ug/L	0.00
5) pentafluorobenzene	9.96	168	182984	50.00	ug/L	0.00
62) 1,4-difluorobenzene	11.12	114	272617	50.00	ug/L	0.00
93) chlorobenzene-d5	15.35	117	256284	50.00	ug/L	0.00
108) 1,4-dichlorobenzene-d4	18.14	152	131998	50.00	ug/L	0.00
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.01	113	71575	52.00	ug/L	0.00
Spiked Amount 50.000	Range 67 - 131		Recovery = 104.00%			
55) 1,2-dichloroethane-d4 (s)	10.54	65	76953	50.99	ug/L	0.00
Spiked Amount 50.000	Range 66 - 130		Recovery = 101.98%			
85) toluene-d8 (s)	13.32	98	262783	51.43	ug/L	0.00
Spiked Amount 50.000	Range 76 - 125		Recovery = 102.86%			
110) 4-bromofluorobenzene (s)	16.85	95	106504	46.72	ug/L	0.00
Spiked Amount 50.000	Range 53 - 142		Recovery = 93.44%			

Target Compounds						Qvalue
2) tertiary butyl alcohol	7.40	59	41568	245.43	ug/L	94
4) 1,4-dioxane	12.07	88	18670	1337.97	ug/L #	99
11) chlorodifluoromethane	3.75	51	57486	40.24	ug/L	97
12) dichlorodifluoromethane	3.73	85	88129	47.09	ug/L	99
15) chloromethane	4.07	50	110260	45.40	ug/L	96
16) vinyl chloride	4.32	62	86896	47.80	ug/L	99
18) bromomethane	4.97	94	48746	46.64	ug/L	97
19) chloroethane	5.15	64	46905	46.82	ug/L	98
20) vinyl bromide	5.51	106	63896	50.56	ug/L	98
21) trichlorofluoromethane	5.63	101	97838	47.47	ug/L	99
22) pentane	5.70	43	100217	42.84	ug/L	100
23) ethyl ether	6.05	74	45295	52.89	ug/L	96
27) acrolein	6.32	56	135824	442.89	ug/L	100
28) 1,1-dichloroethene	6.50	96	64303	50.54	ug/L	97
29) acetone	6.57	58	6554	53.66	ug/L	100
30) allyl chloride	7.08	76	46954	51.54	ug/L	98
31) acetonitrile	7.05	40	61751	473.43	ug/L	92
32) iodomethane	6.80	142	130159	51.79	ug/L	100
33) iso-butyl alcohol	10.35	43	34494	480.30	ug/L	99
34) carbon disulfide	6.93	76	242682	49.32	ug/L	99
35) methylene chloride	7.30	84	85648	47.84	ug/L	99
36) methyl acetate	7.07	43	56137	46.72	ug/L	99
37) methyl tert butyl ether	7.67	73	416596	94.53	ug/L	99
38) trans-1,2-dichloroethene	7.72	96	73023	49.84	ug/L	98
39) di-isopropyl ether	8.37	45	290253	46.41	ug/L	94
40) 2-butanone	9.25	72	8212	53.72	ug/L	74
41) 1,1-dichloroethane	8.39	63	145736	51.43	ug/L	99
42) chloroprene	8.51	53	107883	47.34	ug/L	99
43) acrylonitrile	7.67	53	125579	254.37	ug/L	99
44) vinyl acetate	8.38	86	12679	57.71	ug/L	82
45) ethyl tert-butyl ether	8.93	59	262916	48.61	ug/L	100
46) ethyl acetate	9.29	70	8411	52.42	ug/L	99
47) 2,2-dichloropropane	9.29	77	98297	48.84	ug/L	99

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122927.D Vial: 21
Acq On : 19 Jan 2012 12:06 am Operator: tamikag
Sample : ICV5242-50 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 11:19:57 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

	Compound	R.T.	QIon	Response	Conc Unit		Qvalue
48)	cis-1,2-dichloroethene	9.29	96	86522	51.23 ug/L		99
49)	propionitrile	9.38	54	95659	513.19 ug/L		99
50)	tert-Butyl Formate	9.79	59	68323	46.60 ug/L	#	99
51)	bromochloromethane	9.67	128	41712	54.21 ug/L		99
52)	tetrahydrofuran	9.72	42	25212	46.10 ug/L		100
53)	chloroform	9.76	83	140061	50.11 ug/L		99
56)	freon 113	6.48	151	47846	53.00 ug/L		96
57)	methacrylonitrile	9.60	41	43721	48.35 ug/L		100
58)	1,1,1-trichloroethane	10.06	97	102950	48.83 ug/L		99
59)	cyclohexane	10.14	84	96438	50.74 ug/L		89
60)	tert amyl alcohol	10.49	59	70793	464.55 ug/L		94
61)	iso-octane	10.63	57	261285	48.06 ug/L		100
64)	epichlorohydrin	12.66	57	25724	220.01 ug/L		99
65)	n-butyl alcohol	11.32	56	116652	2433.70 ug/L		99
66)	carbon tetrachloride	10.32	117	90429	51.44 ug/L		99
67)	1,1-dichloropropene	10.28	75	103006	52.58 ug/L		100
68)	hexane	8.07	57	100268	52.59 ug/L		99
69)	benzene	10.62	78	310539	50.69 ug/L		100
70)	tert-amyl methyl ether	10.68	73	238241	50.55 ug/L		100
71)	heptane	10.86	57	69956	58.64 ug/L		98
72)	isopropyl acetate	10.56	43	116361	40.00 ug/L		86
73)	1,2-dichloroethane	10.65	62	96581	48.74 ug/L		99
74)	trichloroethene	11.56	130	78384	53.04 ug/L		97
75)	ethyl acrylate	11.60	55	95575	46.58 ug/L		99
76)	tert amyl ethyl ether	11.80	87	232581	101.28 ug/L		99
78)	2-chloroethyl vinyl ether	12.66	63	125690	234.59 ug/L		99
79)	methyl methacrylate	11.95	69	49822	50.89 ug/L		94
80)	1,2-dichloropropane	11.91	63	87739	49.38 ug/L		98
81)	dibromomethane	12.12	93	47786	50.65 ug/L		100
82)	methylcyclohexane	11.84	83	117455	51.20 ug/L		98
83)	bromodichloromethane	12.31	83	111813	51.70 ug/L		98
84)	cis-1,3-dichloropropene	12.94	75	143787	51.68 ug/L		99
86)	4-methyl-2-pentanone	13.08	58	29628	50.25 ug/L		98
87)	toluene	13.41	92	196155	51.58 ug/L		99
88)	3-methyl-1-butanol	13.13	55	70047	946.42 ug/L		99
89)	trans-1,3-dichloropropene	13.70	75	126724	52.11 ug/L		98
90)	ethyl methacrylate	13.72	69	101434	50.41 ug/L		100
91)	1,1,2-trichloroethane	13.99	83	60905	50.43 ug/L		99
92)	2-hexanone	14.24	58	27489	49.57 ug/L		99
94)	3,3-Dimethyl-1-butanol	14.49	57	73326	461.20 ug/L		99
95)	tetrachloroethene	14.20	164	71677	52.99 ug/L		99
96)	1,3-dichloropropane	14.23	76	116818	50.58 ug/L		99
97)	butyl acetate	14.36	56	53493	48.09 ug/L		98
98)	dibromochloromethane	14.58	129	86670	51.80 ug/L		100
99)	1,2-dibromoethane	14.77	107	72168	51.47 ug/L		99
101)	chlorobenzene	15.39	112	222549	51.17 ug/L		98
102)	1,1,1,2-tetrachloroethane	15.48	131	80100	51.32 ug/L		98
103)	ethylbenzene	15.47	91	364034	50.09 ug/L		100
104)	m,p-xylene	15.62	106	283686	100.42 ug/L		98

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

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122927.D Vial: 21
Acq On : 19 Jan 2012 12:06 am Operator: tamikag
Sample : ICV5242-50 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 11:19:57 2012 Quant Results File: MX5242.RES

Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration
DataAcq Meth : MX5242

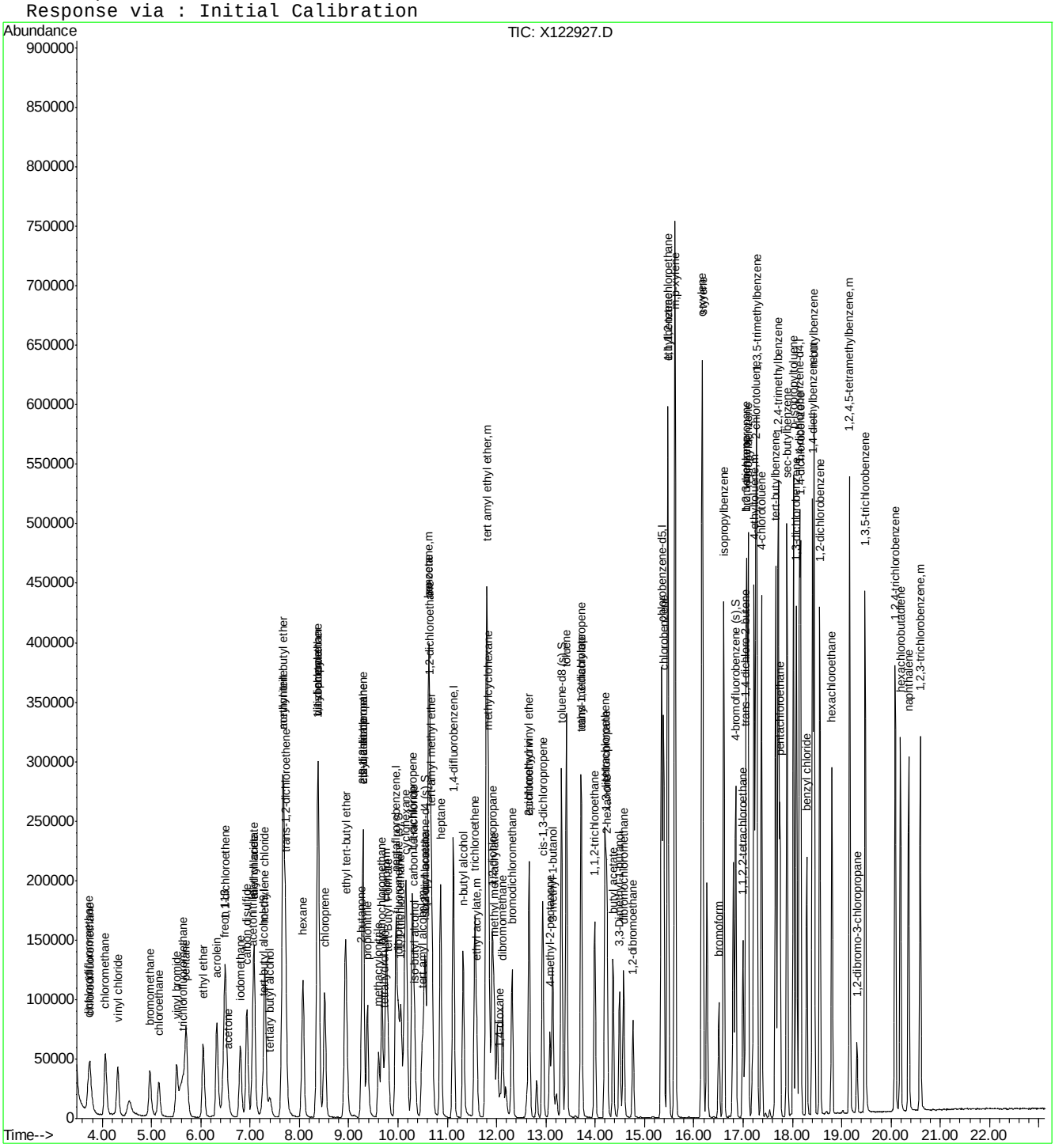
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
105) o-xylene	16.16	106	146582	51.13 ug/L	99
106) styrene	16.18	104	250029	51.61 ug/L	96
107) bromoform	16.51	173	56827	51.79 ug/L	97
109) isopropylbenzene	16.61	105	353283	49.93 ug/L	99
111) bromobenzene	17.07	156	99855	50.91 ug/L	97
112) 1,1,2,2-tetrachloroethane	17.00	83	93152	48.32 ug/L	97
113) trans-1,4-dichloro-2-buten	17.05	53	24253	49.83 ug/L	91
114) 1,2,3-trichloropropane	17.07	110	22174	48.43 ug/L #	86
115) n-propylbenzene	17.10	91	423996	51.60 ug/L	100
116) 4-ethyltoluene	17.22	105	333257	46.00 ug/L	99
117) 2-chlorotoluene	17.26	126	89374	49.88 ug/L	99
118) 4-chlorotoluene	17.37	91	279591	50.04 ug/L	100
119) 1,3,5-trimethylbenzene	17.28	105	296206	49.48 ug/L	98
120) tert-butylbenzene	17.66	119	256132	50.08 ug/L	98
121) pentachloroethane	17.75	167	60832	50.72 ug/L	98
122) 1,2,4-trimethylbenzene	17.71	105	313788	48.63 ug/L	99
124) sec-butylbenzene	17.89	105	391369	50.83 ug/L	100
125) 1,3-dichlorobenzene	18.08	146	187227	49.95 ug/L	100
126) p-isopropyltoluene	18.02	119	328949	51.78 ug/L	99
127) 1,4-dichlorobenzene	18.17	146	187705	49.49 ug/L	99
128) 1,2-dichlorobenzene	18.56	146	180094	49.64 ug/L	99
129) benzyl chloride	18.29	91	163599	43.84 ug/L	100
130) 1,4-diethylbenzene	18.41	119	180803	46.69 ug/L #	81
131) n-butylbenzene	18.44	92	192305	54.24 ug/L	99
132) 1,2,4,5-tetramethylbenzene	19.16	119	300625	47.61 ug/L	100
133) 1,2-dibromo-3-chloropropan	19.31	75	15668	48.00 ug/L	94
134) 1,3,5-trichlorobenzene	19.48	180	156511	53.84 ug/L	100
135) hexachlorobutadiene	20.19	225	79905	55.78 ug/L	99
136) naphthalene	20.36	128	258907	49.89 ug/L	100
137) 1,2,4-trichlorobenzene	20.09	180	134393	54.98 ug/L	100
138) 1,2,3-trichlorobenzene	20.59	180	118380	54.77 ug/L	100
139) hexachloroethane	18.80	201	59243	51.31 ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\X122927.D Vial: 21
Acq On : 19 Jan 2012 12:06 am Operator: tamikag
Sample : ICV5242-50 Inst : MSX
Misc : MS24268,VX5242,5.0,,,,1 Multiplr: 1.00
MS Integration Params: Rteint.p
Quant Time: Jan 19 11:21 2012 Quant Results File: MX5242.RES

Method : C:\MSDCHEM\1\METHODS\MX5242.M (RTE Integrator)
Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
Last Update : Thu Jan 19 11:01:08 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5273FINAL\
Data File : X123477a.D
Acq On : 7 Feb 2012 7:07 pm
Operator : tamikag
Sample : ICV5242-50
Misc : MS25125,VX5273,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 08 11:26:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5273.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Feb 08 08:43:34 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.258	65	67878	500.00	ug/L	-0.02
2) pentafluorobenzene	9.956	168	188252	50.00	ug/L	0.00
23) 1,4-difluorobenzene	11.117	114	281456	50.00	ug/L	0.00
28) chlorobenzene-d5	15.344	117	262295	50.00	ug/L	0.00
33) 1,4-dichlorobenzene-d4	18.136	152	139551	50.00	ug/L	0.00
System Monitoring Compounds						
19) dibromofluoromethane (s)	10.003	113	83192	47.82	ug/L	0.00
Spiked Amount 50.000	Range 67 - 127		Recovery = 95.64%			
20) 1,2-dichloroethane-d4 (s)	10.532	65	87607	49.97	ug/L	0.00
Spiked Amount 50.000	Range 65 - 132		Recovery = 99.94%			
27) toluene-d8 (s)	13.314	98	316302	47.49	ug/L	0.00
Spiked Amount 50.000	Range 74 - 129		Recovery = 94.98%			
34) 4-bromofluorobenzene (s)	16.845	95	125060	47.23	ug/L	0.00
Spiked Amount 50.000	Range 62 - 138		Recovery = 94.46%			
Target Compounds						Qvalue
3) freon 115	3.392	85	8617	48.01	ug/L #	100
4) freon 23	3.419	51	27846	49.92	ug/L	99
5) freon 143a	3.434	65	18247	49.51	ug/L	96
6) freon 152a	3.581	51	103122	51.70	ug/L	99
7) chlorotrifluoroethene	3.649	116	29829	51.78	ug/L	99
8) freon 114	3.994	135	36343	50.03	ug/L #	97
9) freon 142b	3.994	65	84437	52.83	ug/L	98
10) 1,3-butadiene	4.370	54	68100	51.38	ug/L	100
11) acetaldehyde	4.533	44	105738	542.39	ug/L	98
12) vinyl bromide	5.511	106	67044	50.75	ug/L	99
13) pentane	5.699	43	125889	48.21	ug/L	99
14) freon 141b	6.060	81	97459	51.85	ug/L	99
15) freon 123a	6.086	67	103176	52.08	ug/L	98
16) freon 123	6.196	83	111845	51.75	ug/L #	98
17) 2-chloropropane	6.253	43	139170	50.36	ug/L	100
18) 1-chloropropane	7.331	41	46883	49.70	ug/L	98
21) tert amyl alcohol	10.490	59	35451	266.46	ug/L	98
22) 2,2,4-trimethylpentane	10.626	57	302567	47.81	ug/L	100
24) ethyl acrylate	11.593	55	99694	55.49	ug/L	100
25) tert amyl ethyl ether	11.792	87	130048	51.18	ug/L	100
26) 2-nitropropane	12.619	43	20387	54.14	ug/L	97
29) n-butyl ether	15.328	57	380157	51.52	ug/L	100
30) butyl acrylate	15.982	55	164608	53.56	ug/L	100
31) n-amyl acetate	16.264	43	130610	54.22	ug/L	99
32) cyclohexanone	16.798	55	26985	495.89	ug/L	100
35) 4-ethyltoluene	17.216	105	410362	48.94	ug/L	100
36) 1,2,3-trimethylbenzene	18.173	105	366458	48.37	ug/L	100
37) 1,4-diethylbenzene	18.403	119	240136	48.61	ug/L	100
38) indane	18.408	117	381972	56.18	ug/L	99
39) 1,2,4,5-tetramethylben...	19.156	119	367455	50.22	ug/L	100

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5273FINAL\
Data File : X123477a.D
Acq On : 7 Feb 2012 7:07 pm
Operator : tamikag
Sample : ICV5242-50
Misc : MS25125,VX5273,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 08 11:26:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5273.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Feb 08 08:43:34 2012
Response via : Initial Calibration

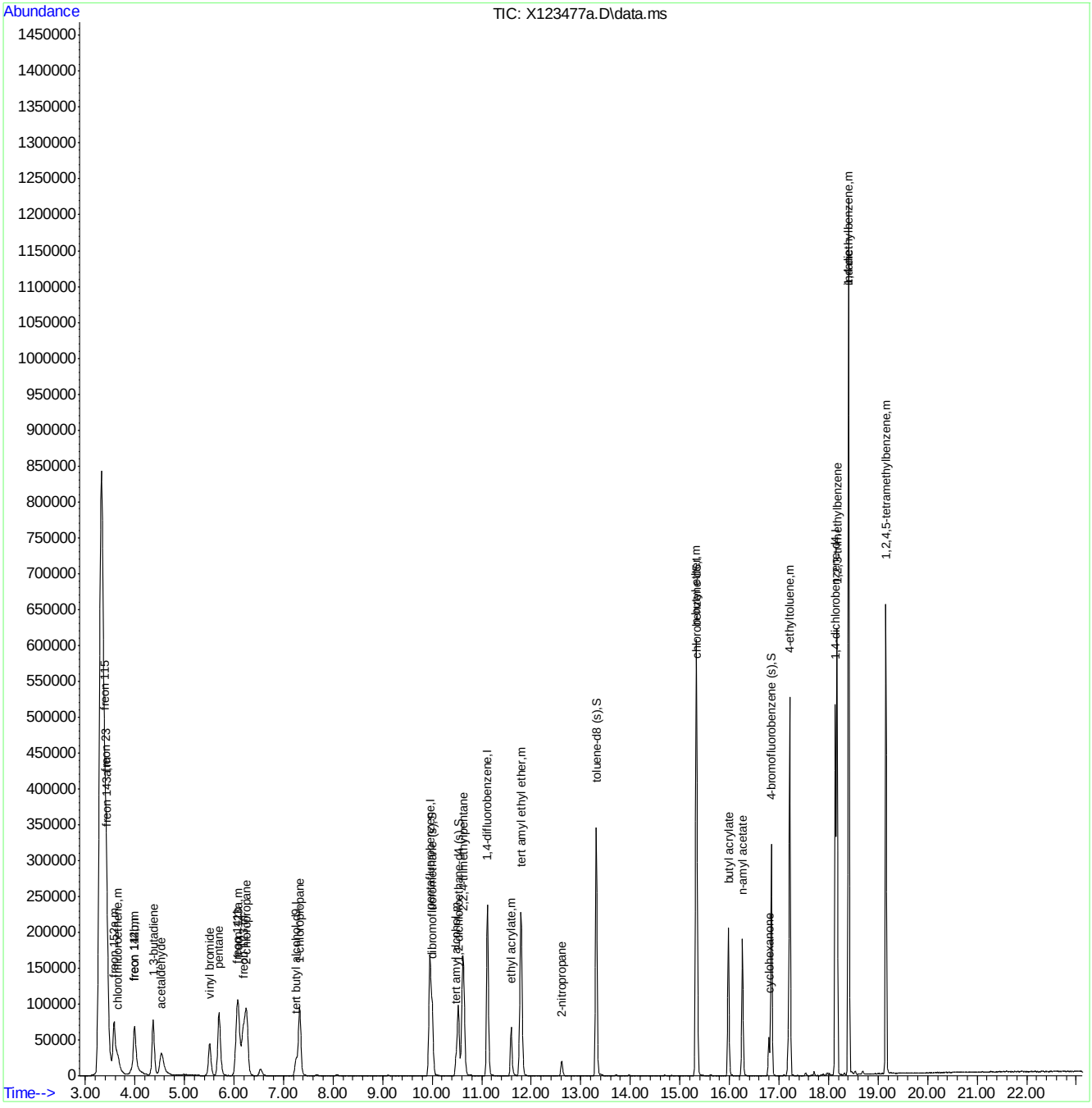
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5273FINAL\
Data File : X123477a.D
Acq On : 7 Feb 2012 7:07 pm
Operator : tamikag
Sample : ICV5242-50
Misc : MS25125,VX5273,5.0,,,,1
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Feb 08 11:26:00 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5273.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Wed Feb 08 08:43:34 2012
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123639A.D
Acq On : 11 Feb 2012 11:28 am
Operator : tamikag
Sample : CC5242-20
Misc : MS25397,VX5283,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 13 12:08:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) tert butyl alcohol-d9	7.287	65	61860	500.00	ug/L	0.02
5) pentafluorobenzene	9.986	168	176915	50.00	ug/L	0.02
62) 1,4-difluorobenzene	11.147	114	263207	50.00	ug/L	0.02
93) chlorobenzene-d5	15.368	117	254843	50.00	ug/L	0.02
108) 1,4-dichlorobenzene-d4	18.156	152	127714	50.00	ug/L	0.02
System Monitoring Compounds						
54) dibromofluoromethane (s)	10.028	113	71953	54.07	ug/L	0.02
Spiked Amount 50.000 Range 67 - 131 Recovery = 108.14%						
55) 1,2-dichloroethane-d4 (s)	10.556	65	69702	47.77	ug/L	0.02
Spiked Amount 50.000 Range 66 - 130 Recovery = 95.54%						
85) toluene-d8 (s)	13.339	98	287509	58.29	ug/L	0.02
Spiked Amount 50.000 Range 76 - 125 Recovery = 116.58%						
110) 4-bromofluorobenzene (s)	16.869	95	106753	48.40	ug/L	0.02
Spiked Amount 50.000 Range 53 - 142 Recovery = 96.80%						
Target Compounds						Qvalue
2) tertiary butyl alcohol	7.429	59	16212	97.31	ug/L	91
4) 1,4-dioxane	12.094	88	7685	559.90	ug/L #	91
11) chlorodifluoromethane	3.767	51	27252	19.73	ug/L	97
12) dichlorodifluoromethane	3.752	85	35766	19.77	ug/L	98
15) chloromethane	4.081	50	42521	18.11	ug/L	100
16) vinyl chloride	4.332	62	35434	20.16	ug/L	100
18) bromomethane	4.991	94	26123	23.23	ug/L	100
19) chloroethane	5.174	64	19735	20.37	ug/L	98
21) trichlorofluoromethane	5.656	101	43267	21.71	ug/L	97
22) pentane	5.729	43	50302	22.24	ug/L	99
23) ethyl ether	6.079	74	17661	21.33	ug/L	89
27) acrolein	6.356	56	45463	153.33	ug/L #	100
28) 1,1-dichloroethene	6.529	96	26745	21.74	ug/L	92
29) acetone	6.597	58	2203	18.65	ug/L	95
30) allyl chloride	7.110	76	18228	20.70	ug/L #	82
31) acetonitrile	7.083	40	23669	187.69	ug/L	91
32) iodomethane	6.832	142	54956	22.62	ug/L	97
33) iso-butyl alcohol	10.368	43	12725	183.26	ug/L	97
34) carbon disulfide	6.963	76	96766	20.34	ug/L	100
35) methylene chloride	7.329	84	35901	20.74	ug/L	95
36) methyl acetate	7.089	43	22060	18.99	ug/L	96
37) methyl tert butyl ether	7.690	73	86027	20.19	ug/L	97
38) trans-1,2-dichloroethene	7.748	96	30979	21.87	ug/L	92
39) di-isopropyl ether	8.396	45	109373	18.09	ug/L	97
40) 2-butanone	9.285	72	3090	20.91	ug/L	78
41) 1,1-dichloroethane	8.412	63	58231	21.25	ug/L	98
42) chloroprene	8.537	53	42590	19.33	ug/L	96
43) acrylonitrile	7.695	53	50128	105.02	ug/L	98
44) vinyl acetate	8.407	86	4391	20.67	ug/L	79
45) ethyl tert-butyl ether	8.966	59	104268	19.94	ug/L	98
46) ethyl acetate	9.312	70	3194	20.59	ug/L	89
47) 2,2-dichloropropane	9.306	77	40272	20.70	ug/L	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123639A.D
Acq On : 11 Feb 2012 11:28 am
Operator : tamikag
Sample : CC5242-20
Misc : MS25397,VX5283,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 13 12:08:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
48)	cis-1,2-dichloroethene	9.317	96	35976	22.03	ug/L		93
49)	propionitrile	9.406	54	38880	215.74	ug/L		93
50)	tert-Butyl Formate	9.819	59	25100	17.71	ug/L	#	97
51)	bromochloromethane	9.704	128	17895	24.05	ug/L		87
52)	tetrahydrofuran	9.746	42	10003	18.92	ug/L		97
53)	chloroform	9.782	83	57051	21.11	ug/L		99
56)	freon 113	6.508	151	21520	24.66	ug/L		97
57)	methacrylonitrile	9.631	41	16338	18.69	ug/L		97
58)	1,1,1-trichloroethane	10.080	97	42901	21.05	ug/L		99
59)	cyclohexane	10.169	84	40611	22.10	ug/L		94
61)	iso-octane	10.656	57	98256	18.69	ug/L		99
64)	epichlorohydrin	12.680	57	7860	69.63	ug/L		98
65)	n-butyl alcohol	11.346	56	41313	892.73	ug/L		95
66)	carbon tetrachloride	10.337	117	38771	22.84	ug/L		95
67)	1,1-dichloropropene	10.311	75	40492	21.41	ug/L		97
68)	hexane	8.098	57	37619	20.44	ug/L		95
69)	benzene	10.645	78	127274	21.52	ug/L		99
70)	tert-amyl methyl ether	10.703	73	91526	20.12	ug/L		99
71)	heptane	10.891	57	20636	17.92	ug/L		93
72)	isopropyl acetate	10.583	43	49107	17.48	ug/L		91
73)	1,2-dichloroethane	10.671	62	38613	20.18	ug/L		98
74)	trichloroethene	11.587	130	33333	23.36	ug/L		97
78)	2-chloroethyl vinyl ether	12.685	63	40571	78.43	ug/L		97
79)	methyl methacrylate	11.974	69	19543	20.68	ug/L		86
80)	1,2-dichloropropane	11.937	63	35103	20.46	ug/L		97
81)	dibromomethane	12.146	93	20206	22.18	ug/L		93
82)	methylcyclohexane	11.864	83	48776	22.02	ug/L		90
83)	bromodichloromethane	12.335	83	45514	21.80	ug/L		100
84)	cis-1,3-dichloropropene	12.957	75	58778	21.88	ug/L		96
86)	4-methyl-2-pentanone	13.103	58	11588	20.36	ug/L		96
87)	toluene	13.438	92	83012	22.61	ug/L		100
88)	3-methyl-1-butanol	13.161	55	25853	361.79	ug/L		94
89)	trans-1,3-dichloropropene	13.731	75	50824	21.64	ug/L		98
90)	ethyl methacrylate	13.742	69	39571	20.37	ug/L		98
91)	1,1,2-trichloroethane	14.014	83	25485	21.85	ug/L		98
92)	2-hexanone	14.265	58	10620	19.84	ug/L		95
94)	3,3-Dimethyl-1-butanol	14.516	57	26077	164.94	ug/L		97
95)	tetrachloroethene	14.223	164	29034	21.59	ug/L		97
96)	1,3-dichloropropane	14.254	76	48381	21.07	ug/L		93
97)	butyl acetate	14.385	56	20148	18.22	ug/L		99
98)	dibromochloromethane	14.599	129	36981	22.23	ug/L		99
99)	1,2-dibromoethane	14.788	107	30930	22.18	ug/L		97
101)	chlorobenzene	15.405	112	94852	21.93	ug/L		96
102)	1,1,1,2-tetrachloroethane	15.499	131	34293	22.10	ug/L		97
103)	ethylbenzene	15.494	91	153192	21.20	ug/L		98
104)	m,p-xylene	15.635	106	120606	42.93	ug/L		97
105)	o-xylene	16.184	106	61465	21.56	ug/L		98
106)	styrene	16.200	104	103724	21.53	ug/L		97
107)	bromoform	16.529	173	25036	22.95	ug/L		97
109)	isopropylbenzene	16.623	105	151937	22.19	ug/L		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123639A.D
Acq On : 11 Feb 2012 11:28 am
Operator : tamikag
Sample : CC5242-20
Misc : MS25397,VX5283,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 13 12:08:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration

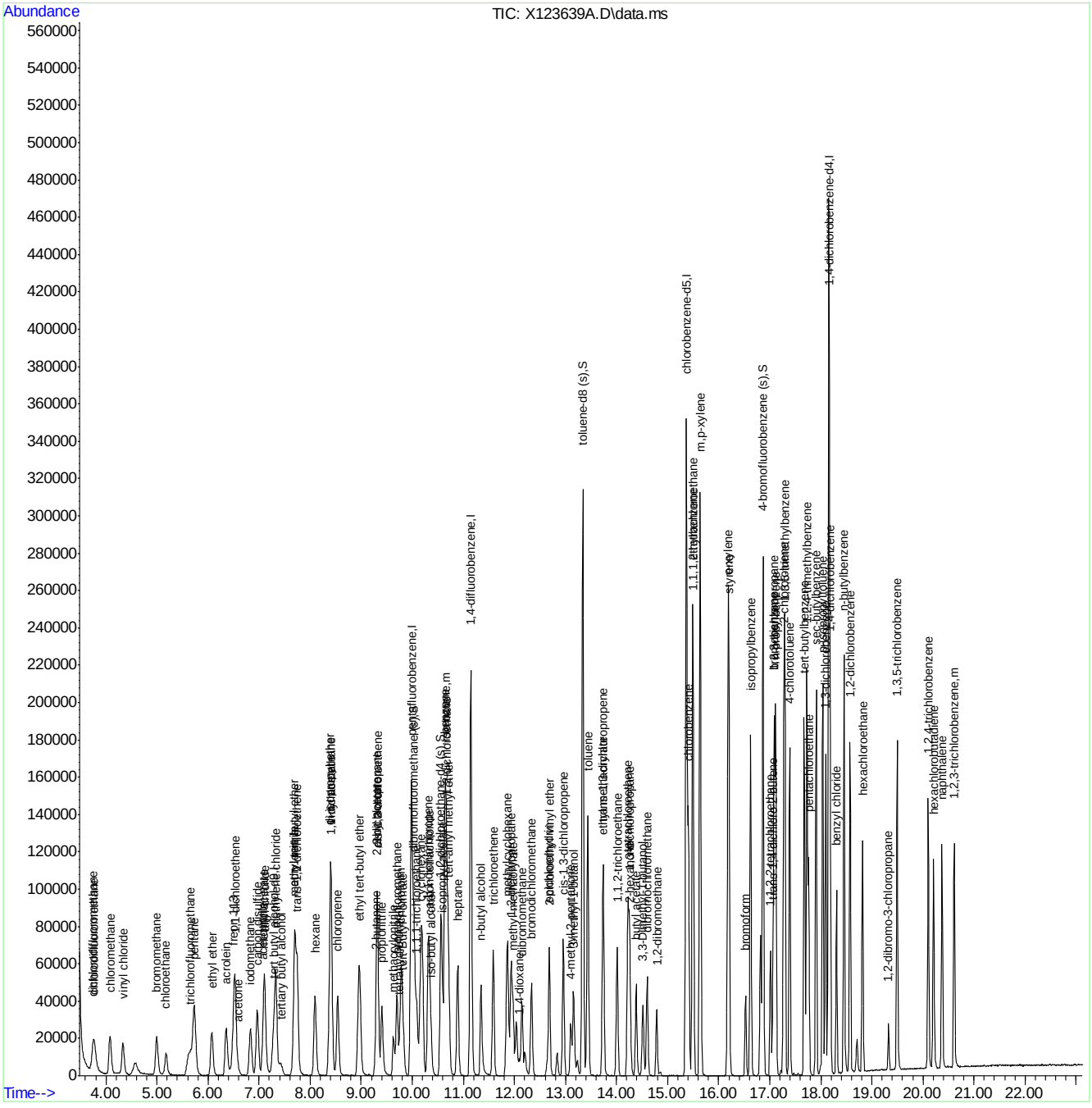
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
111) bromobenzene	17.089	156	43032	22.67	ug/L	90
112) 1,1,2,2-tetrachloroethane	17.016	83	39716	21.29	ug/L	99
113) trans-1,4-dichloro-2-b...	17.063	53	8795	18.67	ug/L	92
114) 1,2,3-trichloropropane	17.089	110	9450	21.33	ug/L #	89
115) n-propylbenzene	17.115	91	174039	21.89	ug/L	99
117) 2-chlorotoluene	17.277	126	38802	22.38	ug/L	95
118) 4-chlorotoluene	17.392	91	114166	21.12	ug/L	98
119) 1,3,5-trimethylbenzene	17.298	105	127728	22.05	ug/L	99
120) tert-butylbenzene	17.675	119	110395	22.31	ug/L	98
121) pentachloroethane	17.764	167	26916	23.20	ug/L	99
122) 1,2,4-trimethylbenzene	17.727	105	131411	21.05	ug/L	99
124) sec-butylbenzene	17.910	105	164902	22.14	ug/L	99
125) 1,3-dichlorobenzene	18.098	146	79837	22.02	ug/L	98
126) p-isopropyltoluene	18.041	119	137200	22.32	ug/L	98
127) 1,4-dichlorobenzene	18.182	146	78767	21.46	ug/L	98
128) 1,2-dichlorobenzene	18.574	146	76736	21.86	ug/L	99
129) benzyl chloride	18.308	91	73551	20.37	ug/L	99
131) n-butylbenzene	18.454	92	70738	20.62	ug/L	98
133) 1,2-dibromo-3-chloropr...	19.322	75	6463	20.47	ug/L	94
134) 1,3,5-trichlorobenzene	19.495	180	63213	22.48	ug/L	99
135) hexachlorobutadiene	20.211	225	29998	21.64	ug/L	99
136) naphthalene	20.374	128	102985	20.51	ug/L	99
137) 1,2,4-trichlorobenzene	20.102	180	52768	22.31	ug/L	99
138) 1,2,3-trichlorobenzene	20.614	180	47053	22.50	ug/L	100
139) hexachloroethane	18.820	201	25755	23.05	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\X\VX5883\
Data File : X123639A.D
Acq On : 11 Feb 2012 11:28 am
Operator : tamikag
Sample : CC5242-20
Misc : MS25397,VX5283,5.0,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Feb 13 12:08:56 2012
Quant Method : C:\MSDCHEM\1\METHODS\MX5242.M
Quant Title : SW-846 Method 8260B, ZB624 60m x 0.25mm x 1.4um
QLast Update : Thu Jan 19 11:19:53 2012
Response via : Initial Calibration



ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VV5294

Date: 1/12/2012 (Thurs)

Print Analyst Name: Conor Lemon

Analyst Signature: CL

Columns: ZB624 (60m x 0.25mm x 1.4 Micron)

Method V8260

Initial Cal. Method MVS5294

Standard Data

Lot #	Description	Conc.
011-1197-117	Ext A	100 ppm
122	B	
126	C	
85	Acrolein	1000 ppm
111	Acrolein	
98	8260 Surrogate	100 ppm

Standard Data

Lot #	Description	Conc.
011-1197-102	A STD	100 ppm
104	B	
119	C	
124	S(VVSVF, TM, TBE)	
121	Vinyl Bromide	
89	8260 Int only	250/3,500 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ Date: 1/17/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	V123246	BFB				1							OK	9:47am	
	123247	IC5294-1				2					✓		OK	1mL ABC Acro, VB, S, Surr / 100 mL DI + 100 mL Acro	
	123248	IC5294-2				3					✓		OK	2mL ABC, VB, S, Surr / 100 mL DI + 200 mL Acro	
	123249	IC5294-0.5				4					✓		OK	0.5mL ABC Acro, VB, S, Surr / 100mL DI	
	123250	IC5294-5				5					✓		OK	5mL	
	123251	IC5294-10				6					✓		OK	10mL	
	123252	IC5294-20				7					✓		OK	10mL ABC Acro, VB, S, / 50mL DI 25mL Surr	
	123253	IC5294-50				8					✓		OK	25mL ABC Acro, VB, S, Surr / 50mL DI	
	123254	IC5294-100				9					✓		OK	50mL no acrolein	
	123255	IC5294-200				10					✓		OK	100mL no acrolein	
	123256	IB				11								cb	
	123257	IB				12								cb	
	123258	ICV5294-50				13					✓		OK	25mL ABC, Acro, VB, S, Surr / 50mL DI Ext	
	123259	IB				14								cb	

TX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
ample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

ll strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error;
= computer miscalculation; 4 = analyst's correction error

orm: OR001-9
ev. Date: 2/14/2007

77

6.8.1 6

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VV5348

Print Analyst Name: Conor Lennon
Analyst Signature: CL

Date: 2/13/2012 (Mon)

Standard Data

Lot #	Description	Conc.
011-1147-145	Ext A	100 ppm
012-1256-32	B	
↓ 54	C	↓
011-1147-149	Acrolein	100 ppm
012-1256-07	Acrolein	↓

Standard Data

Lot #	Description	Conc.
011-1147-147	A STD	100 ppm
012-1256-06	B	
↓ 50	C ↓	↓
011-1147-114	8260 IS	250/250 ppm

Columns: ZB624 (60m x 0.25mm x 1.4µm)

Method V8260

Initial Cal. Method MVS5294

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: ✓ Date: 4/14/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (mL or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	√124244	BFB				1							ok	10:04am	
	124245	CCS294-20				2					✓	✓	ok	10 µL ABC Acr/50mLRE	
	124246	IB				3					—		%		
	124247	MB				4					✓	✓	ok		
	124248	BS				5					✓	✓	ok	25µL Ext ABC Acr/5mLRE	
	124249	IB				6					—		%		
	124250	JA98714-1	25318 NJ Comb	SO	4	7	1.1				✓	✓	ok		
	124251	IB				8					—		%		
	124252	JA98956-3	25473 TCLH+TBA	SL	3	9	5.3				✓	✓	ok		
	124253	JA98956-8			3	10	5.0				✓	✓	ok		
	124254	JA98956-9			3	11	3.8				✓	✓	ok		
	124255	JA98956-3MS			4	12	5.0				✓	✓	ok	2.5µL ABC Acr/5mLsample	
	124256	IB				13					—		%		
	~~124257A~~	~~JA98695-2~~	~~25472~~	~~SL~~	~~4~~		~~5.8~~				✓	✓	ok	25251 5L3	
	124257	JA98956-10	TCLH+TBA	SL	1	14	5.0				✓	✓	ok		
	124258	JA98956-8Dup		SL	4	15	5.1				✓	✓	ok		
R	124259	JA98956-4			4	16	4.7				✓	✓	ok		
R	124260	JA98956-2			4	17	4.5				✓	✓	ok		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

271

6.8.2 6

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VV5348

Print Analyst Name: Conor Lemon

Analyst Signature: CL

Date: 2/13/2012 (Mon)

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page 271	

Columns: ZB624 (60mx0.25mmx1.4um)

Method V8260

Initial Cal. Method MV35294

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: ✓ Date: 2/14/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	V124261	JA99015-7	25499 TCL11+	SL	4	18	5.8				–	–	ok		
	124262	JA99015-8			4	19	5.7				–	–	ok		
	124263	JA99015-9			4	20	5.7				–	–	ok		
	124264	JA99015-6			4	21	6.0				–	–	ok	9:39pm	
	124265	IB				22							%		

CL 2/13/2012

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

273

6.8.2 6

ACCUTEST. VOLATILE ANALYSIS LOG Batch ID: VX5242

Print Analyst Name: TAMIKA G

Analyst Signature:

1/18/12

Columns: 2B624 (60M X 0.25mm X 1.4um)

Method V8260

Initial Cal. Method MX5242

Standard Data

#	Description	Conc.
141	8260 extra	100-500 ppm
88	EXT A	100 ppm
126	B/C	
85	Acrolein	1000 ppm
28	Acrolein	
89	INTONLY	250 ppm

Standard Data

Lot #	Description	Conc.
MH1-1197102	A	100 ppm
104	B	
139	C	
140	vinyl bromide	
98	SURR STD	

ally integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply he criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 1/19/12

Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
122916	BFB											ok	6-43 pm	
122917	IC5242-0.5	8260 INITIAL				5		1φ				ok	0.5µl "A+B+C+AC+8260 extra, +vinyl br+SCOO (200µl Ac)	100FV
122918	IC5242-1					5		1φ				ok	1µl "A+B+C+AC+SURR+vinyl br, 8260 extra (100µl Ac)	100FV
122919	IC5242-2					5		1φ				ok	2µl "	100FV
122920	IC5242-5					5		1φ				ok	5µl " +9.5µl SURR	100FV
122921	IC5242-10					5		1φ				ok	5µl "	50FV
122922	IC5242-20					5		1φ				ok	25µl SURR + 10µl A+B+C+AC+vinyl br + 8260 extra	50FV
122923	IC5242-50					5		1φ				ok	25µl "A+B+C+AC+SURR+8260 extra+vinyl br	50
122924	IC5242-100					5		1φ				ok	50µl "A+B+C+SURR+8260 extra+vinyl br	50FV
122925	IC5242-200					5		1φ				ok	100µl "	
122926	IB											c/o		
122927	IC5242-50					5		1φ				ok	25µl 8260 extra+SURR+vinyl br+EXT(A+B+C+AC)	50FV
122928	IB											c/o		

1/19/12

= Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
ple Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

rike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; omputer miscalculation; 4 = analyst's correction error

143

: OR001-9
Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: VX5273

Print Analyst Name: Teresa Ann

Analyst Signature: (signature)

Date: 2/7/12

Columns: ZB624 (60mx0.25mm/1.4µm)

Method: V8260

Initial Cal. Method: MX5273

Standard Data

Lot #	Description	Conc.
VM2-1256-42	Freon A	100ppm
13	B	
39	SURR STD	

Standard Data

Lot #	Description	Conc.
VM2-1256-19	MDL-SP-1	100-500ppm
10	MDL-SP-2	100/1000ppm
23	MDL-3	100ppm
44	acetaldehyde	1000ppm
38	INT ONLY	250/2500ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: _____ Date: 2/8/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	X123464	BFB											ok	12:47pm	
	123465	IC5273-0.5	8260 special cmpd initial				5		1x				ok	0.5µl (Freon A+B + MDL 1,2,3 + surr + acetal)	"/100F
	123466	IC5273-1					5		1x				RR	1µl (	"/100F
	123467	IC5273-2					5		1x				ok	2µl (	"/100F
	123468	IC5273-5					5		1x				ok	5µl (	"/100F
	123469	IC5273-10					5		1x				ok	5µl (	"/50F
	123470	IC5273-20					5		1x				ok		
	123471	IC5273-50					5		1x				ok	25µl "(Freon A+B + MDL 1,2,3 + surr + acetal)	"/50F
	123472	IC5273-100					5		1x				ok	50µl "(	"/50F
	123473	IC5273-200					5		1x				ok	100µl "(	"/50F
	123474	IB											c/o		
	123475	IB											c/o		
	123476	IC5273-1.0					5		1x				ok	1µl Freon A+B + MDL 1,2,3 + surr + acetal	/100C
	X123477	ICV5273-50					5		1x				ok	25µl Freon A+B + MDL 1,2,3 + surr + acetal	/50F

2/8/12

MTX = Matrix Designate W for water, S for soil, O for oil. L+ = Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt. = volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

249

6.8.4 6

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VX5283

Print Analyst Name: TAMIKA Quinn

Analyst Signature: [signature]

Date: 2/11/12

Columns: 2B624 (60mx0.25mmx1.4um)

Method V8260

Initial Cal. Method MX5242

Standard Data

Lot #	Description	Conc.
V011-1197-145	EXT A	100ppm
V012-1256-32	B	
54	C	
V011-1197-149	Acrolein	1000ppm
V012-1256-43	Acrolein	

Standard Data

Lot #	Description	Conc.
V011-1197-147	A	100ppm
V012-1256-06	B	
50	C	
37	IS	250/250ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 2/13/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	X123638	BFB											gk	10:29AM	
	123639	CC5242-20											NG		
	123639A	CC5242-20									✓	✓	gk		
	123640	MB									✓	✓	gk		
	123640A	BS									✓	✓	gk		
	123641A	IB									—		c/o		
R	123642	JA98718-8	25299 TCU1+	SMS	1		5.0				✓	✓	gk		
	123643	JA98718-7		SLC	5		4.8				✓	✓	gk		
	123644	JA98718-6			6		4.7				✓	✓	gk		
	123645	JA98718-5			5		5.5				✓	✓	gk		
	123646	JA98718-1			6		6.0				✓	✓	gk		
	123647	JA98960-6	25409 TCU2+10	SLC	13		5.2				✓	✓	gk		
R	123648	JA98695-1	25251 SL3	SLC	5		5.5				✓	✓	gk		
	123649	JA98960-6MS	25469	SMS	15		5.0				✓	✓	gk		
	123650	JA98960-6MSD		SDP	14		5.2				✓	✓	gk		
	123651	IB									—		c/o		
R	123652	JA98827-12	25385 TCU+10	SLC	4		4.4				✓	✓	gk		
	X123653	JA98827-14			6		4.6				✓	✓	gk		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

283

6.8.5 6

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VX5283

Date: 2/10/12

Print Analyst Name: Tamika Gray

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See pg. 283	

Columns: ZB624 (60mx0.25mmx1.4um)

Method VX8260

Initial Cal. Method MX5242

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 2/10/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
R	X123654	JA98827-19	25385 TCL1+10	S	6		3.3				✓	✓	ok		
↓	123655	JA98827-23	↓	↓	4		4.3				✓	✓	ok		
	123656	JA98960-4	25409 TCL42+10	S	5		6.0				✓	✓	ok		
	123657	JA98960-8	↓	↓	5		5.3				✓	✓	ok RR	~~HSO4 Rem Tec~~ 2/14	
	123658	JA98960-10	↓	↓									NOT RAN		
R	123659	JA98827-22	25385 TCL1+10	S	6		3.9				✓	✓	ok		
↓	X123660	JA98827-21	↓	↓	4		4.5				✓	✓	ok	10:05pm	

2/13/12

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

New Jersey
ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- GC Identification Summaries (Hits)
- Surrogate Recovery Summaries
- GC Surrogate Retention Time Summaries
- Initial and Continuing Calibration Summaries

Method Blank Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH3957-MB1	GH86282.D	1	02/07/12	XPL	n/a	n/a	GGH3957

The QC reported here applies to the following samples: **Method:** SW846-8015 (DAI)

JA98695-2

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	38	ug/kg	
67-56-1	Methanol	ND	200	51	ug/kg	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	87%	58-137%
111-27-3	Hexanol	92%	58-137%

Method Blank Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH3960-MB	GH86335.D	1	02/09/12	XPL	n/a	n/a	GGH3960

The QC reported here applies to the following samples: **Method:** SW846-8015 (DAI)

JA98695-1

CAS No.	Compound	Result	RL	MDL	Units	Q
67-63-0	Isopropyl Alcohol	ND	100	38	ug/kg	
67-56-1	Methanol	ND	200	51	ug/kg	

CAS No.	Surrogate Recoveries		Limits
111-27-3	Hexanol	69%	58-137%
111-27-3	Hexanol	67%	58-137%

Blank Spike Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH3957-BS	GH86283.D	1	02/07/12	XPL	n/a	n/a	GGH3957

The QC reported here applies to the following samples: **Method:** SW846-8015 (DAI)

JA98695-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-63-0	Isopropyl Alcohol	5000	4240	85	73-126
67-56-1	Methanol	5000	4460	89	76-128

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	91%	58-137%
111-27-3	Hexanol	90%	58-137%

Blank Spike Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGH3960-BS	GH86336.D	1	02/09/12	XPL	n/a	n/a	GGH3960

The QC reported here applies to the following samples: **Method:** SW846-8015 (DAI)

JA98695-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
67-63-0	Isopropyl Alcohol	5000	4230	85	73-126
67-56-1	Methanol	5000	4790	96	76-128

CAS No.	Surrogate Recoveries	BSP	Limits
111-27-3	Hexanol	91%	58-137%
111-27-3	Hexanol	87%	58-137%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA98540-8MS	GH86287.D	1	02/07/12	XPL	n/a	n/a	GGH3957
JA98540-8MSD	GH86288.D	1	02/07/12	XPL	n/a	n/a	GGH3957
JA98540-8	GH86286.D	1	02/07/12	XPL	n/a	n/a	GGH3957

The QC reported here applies to the following samples: **Method:** SW846-8015 (DAI)

JA98695-2

CAS No.	Compound	JA98540-8 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-63-0	Isopropyl Alcohol	ND		6690	5420	81	5700	85	5	58-139/19
67-56-1	Methanol	9450		6690	14800	80	14200	71	4	39-160/26

CAS No.	Surrogate Recoveries	MS	MSD	JA98540-8	Limits
111-27-3	Hexanol	113%	99%	77%	58-137%
111-27-3	Hexanol	125%	123%	78%	58-137%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA98540-2MS	GH86339.D	1	02/09/12	XPL	n/a	n/a	GGH3960
JA98540-2MSD	GH86340.D	1	02/09/12	XPL	n/a	n/a	GGH3960
JA98540-2	GH86338.D	1	02/09/12	XPL	n/a	n/a	GGH3960

The QC reported here applies to the following samples: **Method:** SW846-8015 (DAI)

JA98695-1

CAS No.	Compound	JA98540-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
67-63-0	Isopropyl Alcohol	ND		5980	4830	81	4920	82	2	58-139/19
67-56-1	Methanol	9160		5980	20700	193* [a]	20800	195* [a]	0	39-160/26

CAS No.	Surrogate Recoveries	MS	MSD	JA98540-2	Limits
111-27-3	Hexanol	115%	85%	85%	58-137%
111-27-3	Hexanol	112%	108%	83%	58-137%

(a) Outside control limits due to matrix interference.

GC Identification Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3957-CC3933	**Injection Date:**	02/07/12
Lab File ID:	GH86281.D	**Injection Time:**	08:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	GGH3957-BS	**Injection Date:**	02/07/12
Lab File ID:	GH86283.D	**Injection Time:**	09:38
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Isopropyl Alcohol	1 [a]	1.54	1.52	4240		ug/kg	3.7
Isopropyl Alcohol	2	1.69	1.70	4400		ug/kg	
Methanol	1 [a]	0.97	0.96	4460		ug/kg	7.3
Methanol	2	1.08	1.10	4800		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3960-CC3933	**Injection Date:**	02/09/12
Lab File ID:	GH86334.D	**Injection Time:**	07:19
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	GGH3960-BS	**Injection Date:**	02/09/12
Lab File ID:	GH86336.D	**Injection Time:**	08:17
Client ID:	Blank Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Isopropyl Alcohol	1	1.50	1.51	4540		ug/kg	7.1
Isopropyl Alcohol	2 [a]	1.65	1.65	4230		ug/kg	
Methanol	1	0.95	0.96	4850		ug/kg	1.2
Methanol	2 [a]	1.04	1.05	4790		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3960-CC3933	**Injection Date:**	02/09/12
Lab File ID:	GH86334.D	**Injection Time:**	07:19
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	JA98540-2MS	**Injection Date:**	02/09/12
Lab File ID:	GH86339.D	**Injection Time:**	09:53
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Isopropyl Alcohol	1 [a]	1.50	1.51	4830		ug/kg	5.4
Isopropyl Alcohol	2	1.66	1.65	5100		ug/kg	
Methanol	1 [a]	0.95	0.96	20700		ug/kg	8.8
Methanol	2	1.07	1.05	22600		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3957-CC3933	**Injection Date:**	02/07/12
Lab File ID:	GH86281.D	**Injection Time:**	08:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	JA98540-8MS	**Injection Date:**	02/07/12
Lab File ID:	GH86287.D	**Injection Time:**	11:34
Client ID:	Matrix Spike		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Isopropyl Alcohol	1 [a]	1.53	1.52	5420		ug/kg	5.6
Isopropyl Alcohol	2	1.70	1.70	5730		ug/kg	
Methanol	1 [a]	0.97	0.96	14800		ug/kg	2.0
Methanol	2	1.09	1.10	14500		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3960-CC3933	**Injection Date:**	02/09/12
Lab File ID:	GH86334.D	**Injection Time:**	07:19
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	JA98540-2MSD	**Injection Date:**	02/09/12
Lab File ID:	GH86340.D	**Injection Time:**	10:08
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Isopropyl Alcohol	1 [a]	1.52	1.51	4920		ug/kg	8.3
Isopropyl Alcohol	2	1.66	1.65	4530		ug/kg	
Methanol	1 [a]	0.96	0.96	20800		ug/kg	9.6
Methanol	2	1.06	1.05	22900		ug/kg	

(a) QC results reported from this column.

GC Identification Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3957-CC3933	**Injection Date:**	02/07/12
Lab File ID:	GH86281.D	**Injection Time:**	08:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

Sample ID:	JA98540-8MSD	**Injection Date:**	02/07/12
Lab File ID:	GH86288.D	**Injection Time:**	11:48
Client ID:	Matrix Spike Duplicate		

Compound	Column	RT	StdRT	Conc	Q	Units	RPD Conc
Isopropyl Alcohol	1 [a]	1.53	1.52	5700		ug/kg	2.3
Isopropyl Alcohol	2	1.69	1.70	5830		ug/kg	
Methanol	1 [a]	0.97	0.96	14200		ug/kg	8.1
Methanol	2	1.07	1.10	13100		ug/kg	

(a) QC results reported from this column.

Volatile Surrogate Recovery Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Method: SW846-8015 (DAI) **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
JA98695-1	GH86344.D	42.0* [c]	61.0
JA98695-2	GH86291.D	90.0	112.0
GGH3957-BS	GH86283.D	91.0	90.0
GGH3957-MB1	GH86282.D	87.0	92.0
GGH3960-BS	GH86336.D	91.0	87.0
GGH3960-MB	GH86335.D	69.0	67.0
JA98540-2MS	GH86339.D	115.0	112.0
JA98540-2MSD	GH86340.D	85.0	108.0
JA98540-8MS	GH86287.D	113.0	125.0
JA98540-8MSD	GH86288.D	99.0	123.0

Surrogate Compounds	Recovery Limits
S1 = Hexanol	58-137%

(a) Recovery from GC signal #1
(b) Recovery from GC signal #2
(c) Outside in house QC limits. Data reported from the second channel.

GC Surrogate Retention Time Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3957-CC3933	**Injection Date:**	02/07/12
Lab File ID:	GH86281.D	**Injection Time:**	08:38
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.42	5.70

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH3957-MB1	GH86282.D	02/07/12	09:07	5.42	5.69
GGH3957-BS	GH86283.D	02/07/12	09:38	5.42	5.69
ZZZZZZ	GH86284.D	02/07/12	10:07	5.42	5.69
ZZZZZZ	GH86285.D	02/07/12	10:22	5.42	5.69
JA98540-8	GH86286.D	02/07/12	10:39	5.42	5.72
JA98540-8MS	GH86287.D	02/07/12	11:34	5.42	5.69
JA98540-8MSD	GH86288.D	02/07/12	11:48	5.42	5.69
ZZZZZZ	GH86289.D	02/07/12	11:58	5.42	5.69
JA98695-2	GH86291.D	02/07/12	13:12	5.42	5.69

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

GC Surrogate Retention Time Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Check Std:	GGH3960-CC3933	**Injection Date:**	02/09/12
Lab File ID:	GH86334.D	**Injection Time:**	07:19
Instrument ID:	GCGH	**Method:**	SW846-8015 (DAI)

	S1 [a] RT	S1 [b] RT
Check Std	5.40	5.67

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GGH3960-MB	GH86335.D	02/09/12	07:49	5.42	5.67
GGH3959-BS	GH86336.D	02/09/12	08:17	5.40	5.67
GGH3960-BS	GH86336.D	02/09/12	08:17	5.40	5.67
ZZZZZZ	GH86337.D	02/09/12	09:23	5.40	5.67
JA98540-2	GH86338.D	02/09/12	09:37	5.40	5.67
JA98540-2MS	GH86339.D	02/09/12	09:53	5.40	5.69
JA98540-2MSD	GH86340.D	02/09/12	10:08	5.42	5.67
ZZZZZZ	GH86341.D	02/09/12	10:22	5.42	5.67
ZZZZZZ	GH86342.D	02/09/12	10:41	5.41	5.67
ZZZZZZ	GH86343.D	02/09/12	10:56	5.41	5.67
JA98695-1	GH86344.D	02/09/12	11:09	5.42	5.67

Surrogate Compounds

S1 = Hexanol

(a) Retention time from GC signal #1
(b) Retention time from GC signal #2

Initial Calibration Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: GGH3933-ICC3933
Lab FileID: GH86029.D

Response Factor Report GCGH

Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:49:44 2012
Response via : Initial Calibration

Calibration Files
0.5 =GH86032.D 1 =GH86030.D 5 =GH86029.D 10 =GH86031.D
50 =GH86027.D 100 =GH86028.D 0.1 =GH86026.D =

Compound	0.5	1	5	10	50	100	0.1	Avg		%RSD
1) Methanol	1.897	1.575	1.502	1.598	1.506	1.544	1.381	1.572	E1	10.16
2) Ethanol	2.307	2.093	2.349	2.311	2.193	2.248	2.396	2.271	E1	4.50
3) Tert-Butyl A	4.009	3.311	3.424	3.442	3.350	3.398	3.370	3.472	E1	6.94
4) 1-Propanol	2.726	2.839	2.835	2.927	2.800	2.846	3.201	2.882	E1	5.30
5) 2-Propanol	2.504	2.296	2.501	2.497	2.370	2.419	3.390	2.568	E1	14.43
6) Propionitril	6.590	5.920	6.117	6.720	5.058	5.943	6.276	6.089	E1	8.99
7) Isobutanol	4.030	3.359	3.416	3.572	3.308	3.361	3.492	3.506	E1	7.07
8) 1-Butanol	3.238	2.921	3.177	3.398	3.017	3.066	3.344	3.166	E1	5.52
9) 2-Butanol	3.124	3.000	3.014	3.088	2.913	2.959	3.108	3.029	E1	2.64
10) Hexanol	6.321	6.193	6.169	5.900	6.277	6.151		6.169	E1	2.38

Signal #2

1) Methanol	1.042	1.305	1.455	1.506	1.375	1.443	1.384	1.359	E1	11.34
2) Ethanol	2.038	2.126	2.548	2.432	2.418	2.388	2.238	2.313	E1	7.94
3) Tert-Butyl A	3.470	4.059	3.486	3.694	3.665	3.650	3.425	3.636	E1	5.92
4) 1-Propanol	2.605	2.734	2.790	2.777	3.005	3.057	2.555	2.789	E1	6.72
5) 2-Propanol	2.387	2.765	2.865	2.710	2.625	2.590	2.659	2.657	E1	5.66
6) Propionitril	6.862	6.026	6.140	6.637	5.054	6.156	5.452	6.047	E1	10.40
7) Isobutanol	3.400	3.398	3.307	3.348	3.679	3.530	3.415	3.439	E1	3.66
8) 1-Butanol	3.401	3.233	3.219	3.313	3.312	3.329	3.145	3.279	E1	2.58
9) 2-Butanol	3.200	2.815	2.963	2.970	3.078	3.146	2.193	2.909	E1	11.72
10) Hexanol	8.404	7.464	7.199	6.898	7.697	6.688		7.392	E1	8.34

(#) = Out of Range ### Number of calibration levels exceeded format ###

MGH3933.M Wed Jan 18 08:56:44 2012 GCGH

Initial Calibration Verification

Job Number: JA98695 **Sample:** GGH3933-ICV3933
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH86037.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH86037.D\FID1A.CH          Vial: 90
Acq On    : 12 Jan 2012   4:01 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38128,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86037.D\FID2B.CH          Vial: 90
Acq On    : 12 Jan 2012   4:15 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38128,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E

Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Jan 13 12:25:38 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.717	16.454	-4.7	110	0.00	0.93- 0.99
2	Ethanol	22.711	23.035	-1.4	98	0.00	1.23- 1.29
3	Tert-Butyl Alcohol	34.719	33.577	3.3	98	0.00	1.72- 1.78
4	1-Propanol	28.819	28.440	1.3	100	0.00	2.21- 2.27
5	2-Propanol	25.683	24.543	4.4	98	0.00	1.49- 1.55
6	Propionitrile						
7	Isobutanol	35.055	33.739	3.8	99	0.00	3.09- 3.15
8	1-Butanol	31.658	30.719	3.0	97	0.00	3.57- 3.63
9	2-Butanol	30.294	29.848	1.5	99	0.00	2.68- 2.74
10 S	Hexanol	61.686	67.905	-10.1	110	0.00	5.39- 5.45

***** Signal #2 *****

1	Methanol	13.586	12.075	11.1	83	0.00	1.04- 1.10
2	Ethanol	23.125	22.806	1.4	90	0.00	1.35- 1.41
3	Tert-Butyl Alcohol	36.355	36.330	0.1	104	0.00	1.94- 2.00
4	1-Propanol	27.889	29.532	-5.9	106	0.00	2.34- 2.40
5	2-Propanol	26.573	25.898	2.5	90	0.00	1.65- 1.71
6	Propionitrile						
7	Isobutanol	34.395	32.786	4.7	99	0.00	3.28- 3.34
8	1-Butanol	32.790	31.302	4.5	97	0.00	3.73- 3.79
9	2-Butanol	29.090	29.206	-0.4	99	0.00	2.91- 2.97
10 S	Hexanol	73.919	79.929	-8.1	111	0.00	5.66- 5.72

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH86029.D MGH3933.M Fri Jan 13 13:03:44 2012 GCGH

Initial Calibration Verification

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR
Sample: GGH3933-ICV3933
Lab FileID: GH86114.D

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH86114.D\FID1A.CH          Vial: 95
Acq On    : 17 Jan 2012   4:02 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38067,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86114.D\FID2B.CH          Vial: 95
Acq On    : 17 Jan 2012   4:17 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E

Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
6	Propionitrile	60.891	55.342	9.1	90	0.00	2.59- 2.65
10 S	Hexanol	61.686	59.353	3.8	96	0.00	5.40- 5.46
*****	Signal #2 *****						
6	Propionitrile	60.466	55.472	8.3	90	0.00	2.34- 2.40
10 S	Hexanol	73.919	83.022	-12.3	115	0.00	5.66- 5.72

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH86029.D MGH3933.M Wed Jan 18 08:52:37 2012 GCGH

Continuing Calibration Summary

Job Number: JA98695 **Sample:** GGH3957-CC3933
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH86281.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH86281.D\FID1A.CH          Vial: 2
Acq On    :  7 Feb 2012   8:38 am                    Operator: XULIU
Sample    : CC3933-5000                               Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                    Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86281.D\FID2B.CH          Vial: 2
Acq On    :  7 Feb 2012   8:52 am                    Operator: XULIU
Sample    : CC3933-5000                               Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                    Multiplr: 1.00
IntFile   : AUTOINT3.E

Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.717	14.286	9.1	95	0.00	0.93- 0.99
2	Ethanol	22.711	20.286	10.7	86	0.00	1.22- 1.28
3	Tert-Butyl Alcohol	34.719	31.822	8.3	93	0.00	1.72- 1.78
4	1-Propanol	28.819	26.188	9.1	92	0.00	2.22- 2.28
5	2-Propanol	25.683	22.227	13.5	89	0.00	1.49- 1.55
6	Propionitrile		----------NA----------				
7	Isobutanol	35.055	31.501	10.1	92	0.00	3.10- 3.16
8	1-Butanol	31.658	28.401	10.3	89	0.00	3.58- 3.64
9	2-Butanol	30.294	27.320	9.8	91	0.00	2.68- 2.74
10 S	Hexanol	61.686	70.229	-13.8	114	0.00	5.39- 5.45

***** Signal #2 *****

1	Methanol	13.586	13.139	3.3	90	0.03	1.07- 1.13
2	Ethanol	23.125	24.052	-4.0	94	0.02	1.37- 1.43
3	Tert-Butyl Alcohol	36.355	39.386	-8.3	113	0.02	1.96- 2.02
4	1-Propanol	27.889	30.743	-10.2	110	0.02	2.37- 2.43
5	2-Propanol	26.573	27.228	-2.5	95	0.02	1.67- 1.73
6	Propionitrile		----------NA----------				
7	Isobutanol	34.395	34.693	-0.9	105	0.00	3.29- 3.35
8	1-Butanol	32.790	31.028	5.4	96	0.02	3.75- 3.81
9	2-Butanol	29.090	28.754	1.2	97	0.02	2.94- 3.00
10 S	Hexanol	73.919	82.064	-11.0	114	0.00	5.67- 5.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH86029.D MGH3933.M Fri Feb 10 17:36:20 2012 GCGH

Continuing Calibration Summary

Job Number: JA98695 **Sample:** GGH3957-CC3933
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH86292.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH86292.D\FID1A.CH          Vial: 13
Acq On    :  7 Feb 2012   3:29 pm                    Operator: XULIU
Sample    : CC3933-10000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                    Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86292.D\FID2B.CH          Vial: 13
Acq On    :  7 Feb 2012   3:49 pm                    Operator: XULIU
Sample    : CC3933-10000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                    Multiplr: 1.00
IntFile   : AUTOINT3.E

Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.717	15.176	3.4	95	0.00	0.94- 1.00
2	Ethanol	22.711	20.661	9.0	89	0.01	1.24- 1.30
3	Tert-Butyl Alcohol	34.719	31.735	8.6	92	0.01	1.73- 1.79
4	1-Propanol	28.819	25.702	10.8	88	0.01	2.23- 2.29
5	2-Propanol	25.683	23.091	10.1	92	0.01	1.50- 1.56
6	Propionitrile		----------NA----------				
7	Isobutanol	35.055	30.709	12.4	86	0.01	3.10- 3.16
8	1-Butanol	31.658	27.487	13.2	81	0.00	3.58- 3.64
9	2-Butanol	30.294	27.893	7.9	90	0.01	2.69- 2.75
10 S	Hexanol	61.686	58.267	5.5	99	0.00	5.39- 5.45
*****	Signal #2 *****						
1	Methanol	13.586	12.312	9.4	82	0.02	1.05- 1.11
2	Ethanol	23.125	21.689	6.2	89	0.02	1.36- 1.42
3	Tert-Butyl Alcohol	36.355	35.900	1.3	97	0.02	1.96- 2.02
4	1-Propanol	27.889	28.076	-0.7	101	0.02	2.36- 2.42
5	2-Propanol	26.573	24.221	8.9	89	0.02	1.67- 1.73
6	Propionitrile		----------NA----------				
7	Isobutanol	34.395	32.613	5.2	97	0.02	3.30- 3.36
8	1-Butanol	32.790	30.107	8.2	91	0.02	3.75- 3.81
9	2-Butanol	29.090	28.496	2.0	96	0.02	2.93- 2.99
10 S	Hexanol	73.919	81.894	-10.8	119	0.00	5.67- 5.73

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH86031.D MGH3933.M Fri Feb 10 17:38:22 2012 GCGH

Continuing Calibration Summary

Job Number: JA98695 **Sample:** GGH3960-CC3933
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH86334.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH86334.D\FID1A.CH          Vial: 19
Acq On    :  9 Feb 2012   7:19 am                    Operator: XULIU
Sample    : CC3933-5000                               Inst    : GCGH
Misc      : GC38317,GGH3960,5,,,,1                    Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86334.D\FID2B.CH          Vial: 19
Acq On    :  9 Feb 2012   7:28 am                    Operator: XULIU
Sample    : CC3933-5000                               Inst    : GCGH
Misc      : GC38317,GGH3960,5,,,,1                    Multiplr: 1.00
IntFile   : AUTOINT3.E

Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.717	15.007	4.5	100	0.00	0.93- 0.99
2	Ethanol	22.711	22.270	1.9	95	-0.01	1.22- 1.28
3	Tert-Butyl Alcohol	34.719	40.311	-16.1#	118	-0.02	1.71- 1.77
4	1-Propanol	28.819	29.524	-2.4	104	-0.02	2.20- 2.26
5	2-Propanol	25.683	23.870	7.1	95	-0.01	1.48- 1.54
6	Propionitrile	----------NA----------					
7	Isobutanol	35.055	33.698	3.9	99	-0.02	3.07- 3.13
8	1-Butanol	31.658	31.223	1.4	98	-0.02	3.56- 3.62
9	2-Butanol	30.294	30.131	0.5	100	-0.02	2.66- 2.72
10 S	Hexanol	61.686	53.815	12.8	87	-0.01	5.37- 5.43

***** Signal #2 *****

1	Methanol	13.586	15.400	-13.4	106	-0.02	1.02- 1.08
2	Ethanol	23.125	23.791	-2.9	93	-0.02	1.32- 1.38
3	Tert-Butyl Alcohol	36.355	36.147	0.6	104	-0.03	1.91- 1.97
4	1-Propanol	27.889	28.803	-3.3	103	-0.04	2.31- 2.37
5	2-Propanol	26.573	25.579	3.7	89	-0.03	1.62- 1.68
6	Propionitrile	----------NA----------					
7	Isobutanol	34.395	33.649	2.2	102	-0.03	3.25- 3.31
8	1-Butanol	32.790	31.198	4.9	97	-0.03	3.70- 3.76
9	2-Butanol	29.090	30.393	-4.5	103	-0.03	2.88- 2.94
10 S	Hexanol	73.919	74.831	-1.2	104	-0.02	5.64- 5.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH86029.D MGH3933.M Thu Feb 09 12:51:30 2012 GCGH

Continuing Calibration Summary

Job Number: JA98695 **Sample:** GGH3960-CC3933
Account: AMANYWP Anderson, Mulholland & Associates **Lab FileID:** GH86345.D
Project: BMSMC, Building 5 Area, PR

Evaluate Continuing Calibration Report

```
Data File : C:\HPCHEM\1\DATA\GH86345.D\FID1A.CH          Vial: 19
Acq On    :  9 Feb 2012  11:59 am                    Operator: XULIU
Sample    : CC3933-10000                             Inst    : GCGH
Misc      : GC38301,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86345.D\FID2B.CH          Vial: 19
Acq On    :  9 Feb 2012  12:09 pm                    Operator: XULIU
Sample    : CC3933-10000                             Inst    : GCGH
Misc      : GC38301,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E

Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration

Min. RRF     :   0.000  Min. Rel. Area :  50%  Max. R.T. Dev  0.50min
Max. RRF Dev :  15%     Max. Rel. Area : 150%
```

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	RT Window
1	Methanol	15.717	15.251	3.0	95	0.00	0.93- 0.99
2	Ethanol	22.711	21.175	6.8	92	0.00	1.22- 1.28
3	Tert-Butyl Alcohol	34.719	36.031	-3.8	105	-0.01	1.71- 1.77
4	1-Propanol	28.819	28.287	1.8	97	-0.01	2.20- 2.26
5	2-Propanol	25.683	23.329	9.2	93	-0.01	1.48- 1.54
6	Propionitrile		----------NA----------				
7	Isobutanol	35.055	32.612	7.0	91	-0.01	3.08- 3.14
8	1-Butanol	31.658	29.366	7.2	86	-0.01	3.56- 3.62
9	2-Butanol	30.294	29.641	2.2	96	-0.01	2.66- 2.72
10 S	Hexanol	61.686	54.096	12.3	92	0.00	5.38- 5.44

***** Signal #2 *****

1	Methanol	13.586	13.447	1.0	89	-0.02	1.01- 1.07
2	Ethanol	23.125	21.512	7.0	88	-0.03	1.32- 1.38
3	Tert-Butyl Alcohol	36.355	37.807	-4.0	102	-0.03	1.91- 1.97
4	1-Propanol	27.889	30.127	-8.0	109	-0.04	2.30- 2.36
5	2-Propanol	26.573	25.284	4.9	93	-0.03	1.62- 1.68
6	Propionitrile		----------NA----------				
7	Isobutanol	34.395	34.112	0.8	102	-0.03	3.25- 3.31
8	1-Butanol	32.790	31.139	5.0	94	-0.03	3.70- 3.76
9	2-Butanol	29.090	30.213	-3.9	102	-0.04	2.88- 2.94
10 S	Hexanol	73.919	74.296	-0.5	108	-0.02	5.64- 5.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
GH86031.D MGH3933.M Thu Feb 09 12:52:42 2012 GCGH

New Jersey

ACCUTEST LABORATORIES

GC Volatiles

Raw Data

```
                              Quantitation Report    (QT Reviewed)

       Data File : C:\HPCHEM\1\DATA\GH86344.D\FID1A.CH          Vial: 18
       Acq On    :  9 Feb 2012  11:09 am                    Operator: XULIU
       Sample    : JA98695-1                                Inst    : GCGH
       Misc      : GC38301,GGH3960,5,,,,1                   Multiplr: 1.00
       IntFile   : autoint1.e

       Data File : C:\HPCHEM\1\DATA\GH86344.D\FID2B.CH          Vial: 18
       Acq On    :  9 Feb 2012  11:22 am                    Operator: XULIU
       Sample    : JA98695-1                                Inst    : GCGH
       Misc      : GC38301,GGH3960,5,,,,1                   Multiplr: 1.00
       IntFile   : AUTOINT3.E
       Quant Time: Feb  9 14:33 2012  Quant Results File: MGH3933.RES

       Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
       Title        : METHOD SW846-8015B (DAI)
       Last Update  : Thu Feb 09 12:33:42 2012
       Response via : Initial Calibration
       DataAcq Meth : MGH3933.M

       Volume Inj.     : 2ul
       Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
       Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

        Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
     ---------------------------------------------------------------------------

     System Monitoring Compounds
10) S   Hexanol           5.42   5.67    130904   226591 2122.089  3065.402 #
  Spiked Amount   5000.000                  Recovery     =   42.44%    61.31%

     Target Compounds
```

```
  ------------------------------------------------------------------------------
  (f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
  GH86344.D  MGH3933.M      Thu Feb 09 14:34:04 2012      GCGH
```

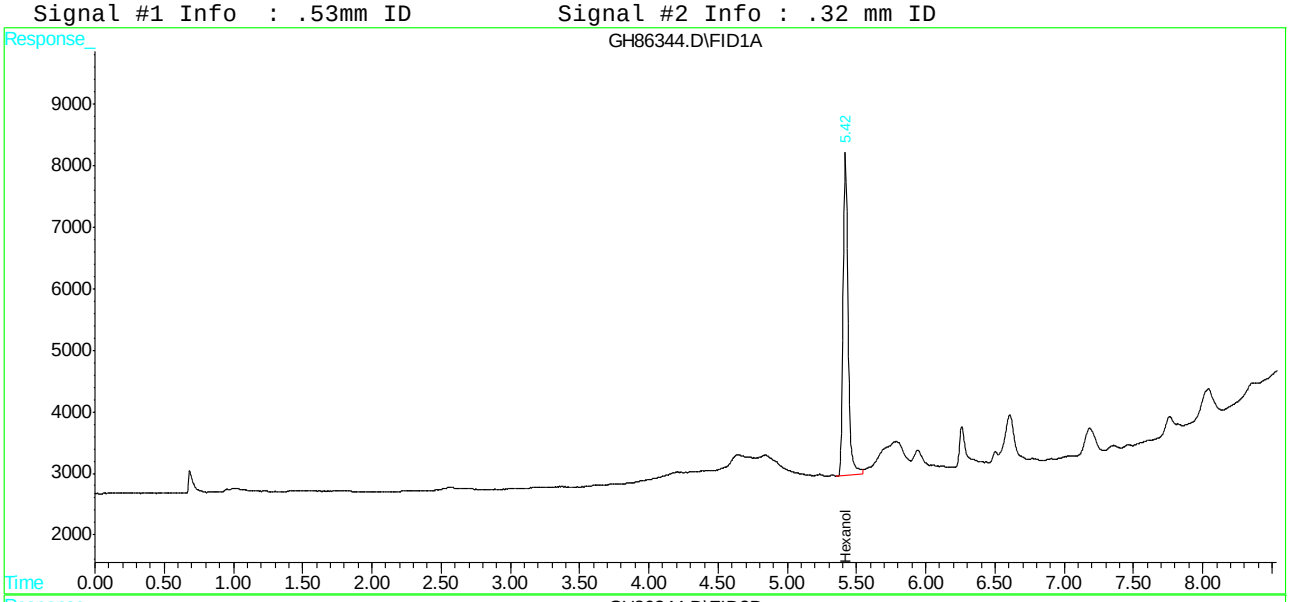
Quantitation Report (QT Reviewed)

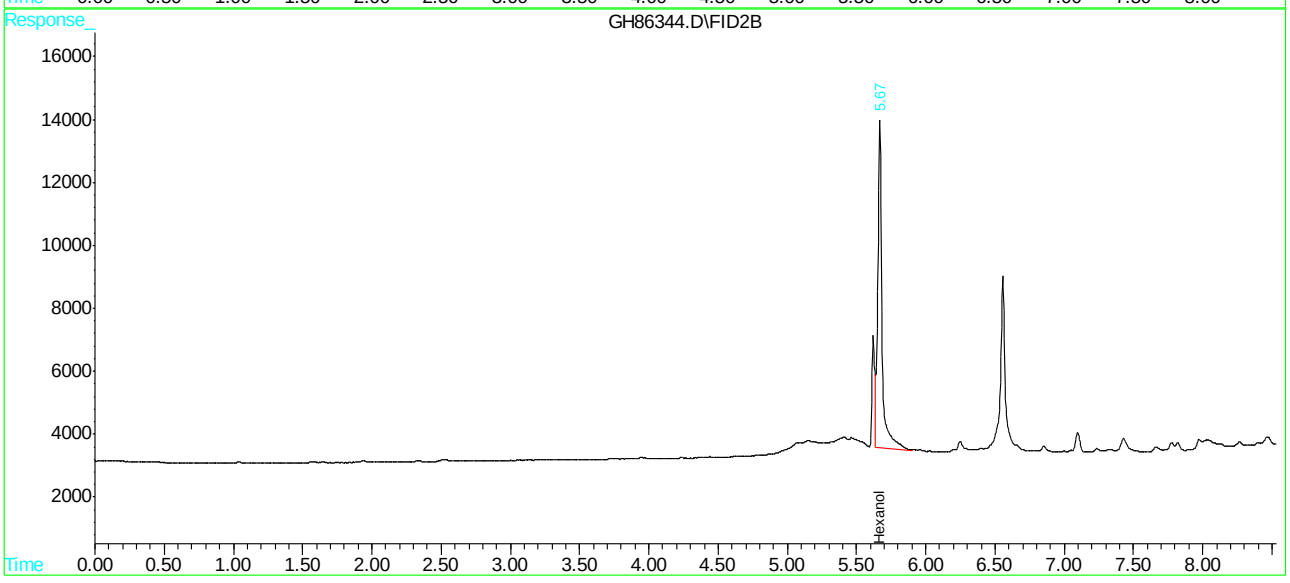
```
Data File : C:\HPCHEM\1\DATA\GH86344.D\FID1A.CH          Vial: 18
Acq On    :  9 Feb 2012  11:09 am                    Operator: XULIU
Sample    : JA98695-1                                Inst    : GCGH
Misc      : GC38301,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86344.D\FID2B.CH          Vial: 18
Acq On    :  9 Feb 2012  11:22 am                    Operator: XULIU
Sample    : JA98695-1                                Inst    : GCGH
Misc      : GC38301,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  9 14:33 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Feb 09 12:33:42 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86291.D\FID1A.CH          Vial: 12
Acq On    :  7 Feb 2012   1:12 pm                    Operator: XULIU
Sample    : JA98695-2                                Inst    : GCGH
Misc      : GC38301,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86291.D\FID2B.CH          Vial: 12
Acq On    :  7 Feb 2012   1:26 pm                    Operator: XULIU
Sample    : JA98695-2                                Inst    : GCGH
Misc      : GC38301,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb 10 15:21 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.42   5.69    276279   413267 4478.766  5590.810
  Spiked Amount   5000.000                  Recovery     =   89.58%   111.82%

Target Compounds
```

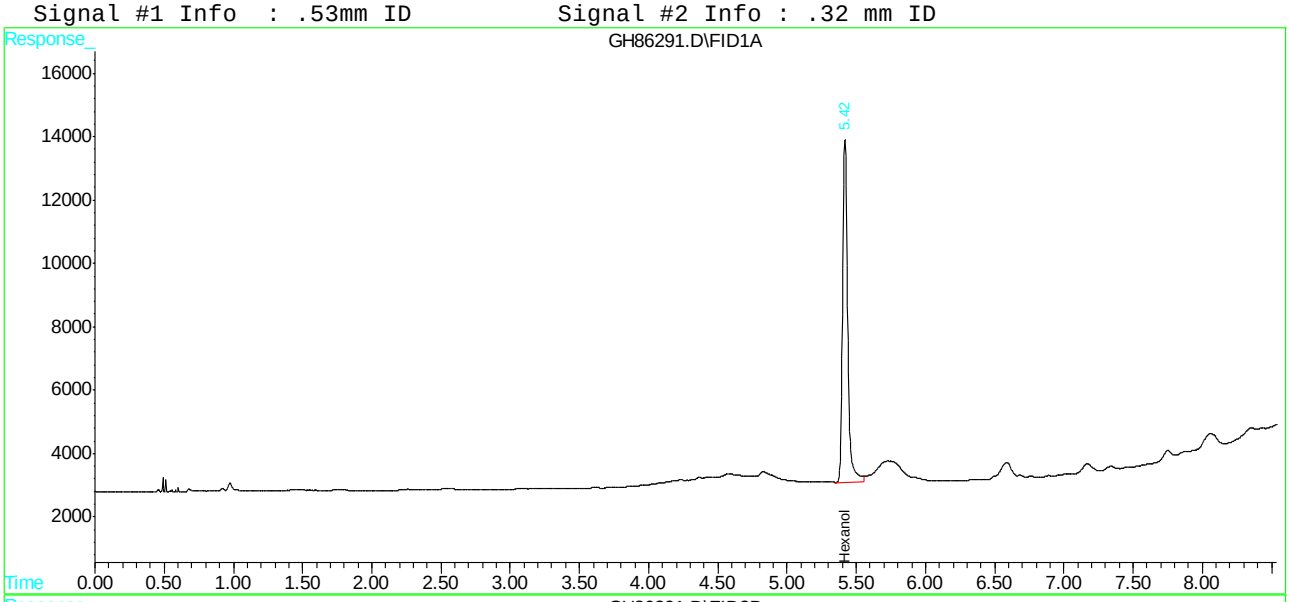
Quantitation Report (QT Reviewed)

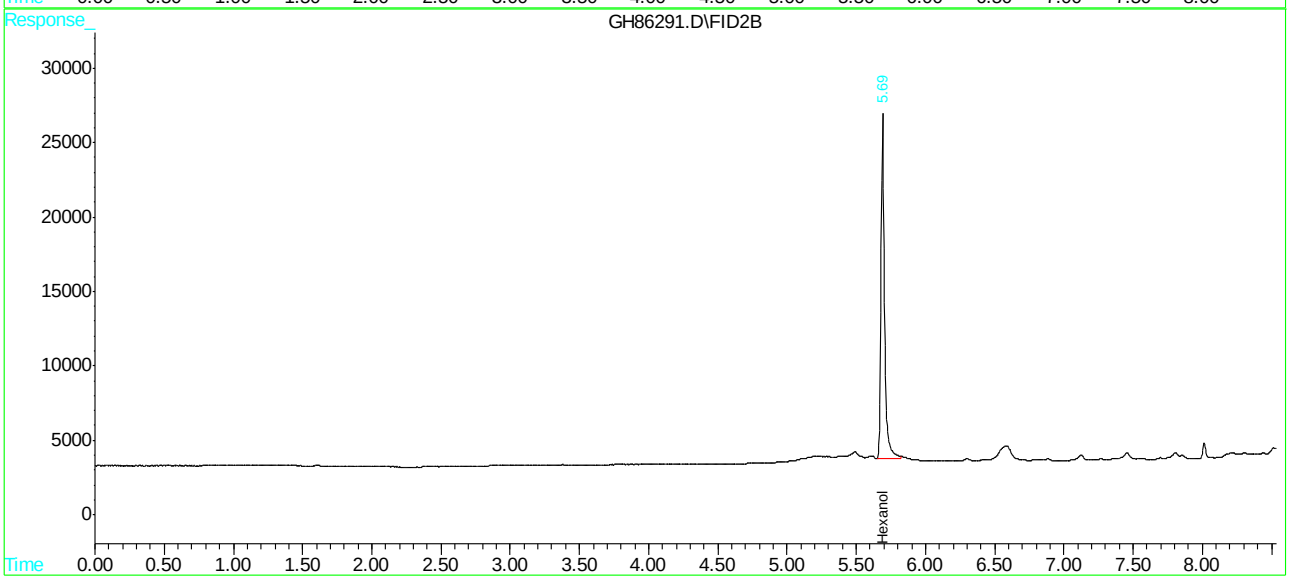
```
Data File : C:\HPCHEM\1\DATA\GH86291.D\FID1A.CH          Vial: 12
Acq On    :  7 Feb 2012   1:12 pm                    Operator: XULIU
Sample    : JA98695-2                                Inst    : GCGH
Misc      : GC38301,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86291.D\FID2B.CH          Vial: 12
Acq On    :  7 Feb 2012   1:26 pm                    Operator: XULIU
Sample    : JA98695-2                                Inst    : GCGH
Misc      : GC38301,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb 10 15:21 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86282.D\FID1A.CH          Vial: 1
Acq On    :  7 Feb 2012   9:07 am                    Operator: XULIU
Sample    : MB1                                      Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86282.D\FID2B.CH          Vial: 1
Acq On    :  7 Feb 2012   9:22 am                    Operator: XULIU
Sample    : MB1                                      Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  7 16:45 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.42   5.69    268816   338256 4357.783  4576.042
  Spiked Amount   5000.000                  Recovery     =   87.16%    91.52%

Target Compounds
```

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH86282.D  MGH3933.M      Fri Feb 10 15:39:29 2012      GCGH
```

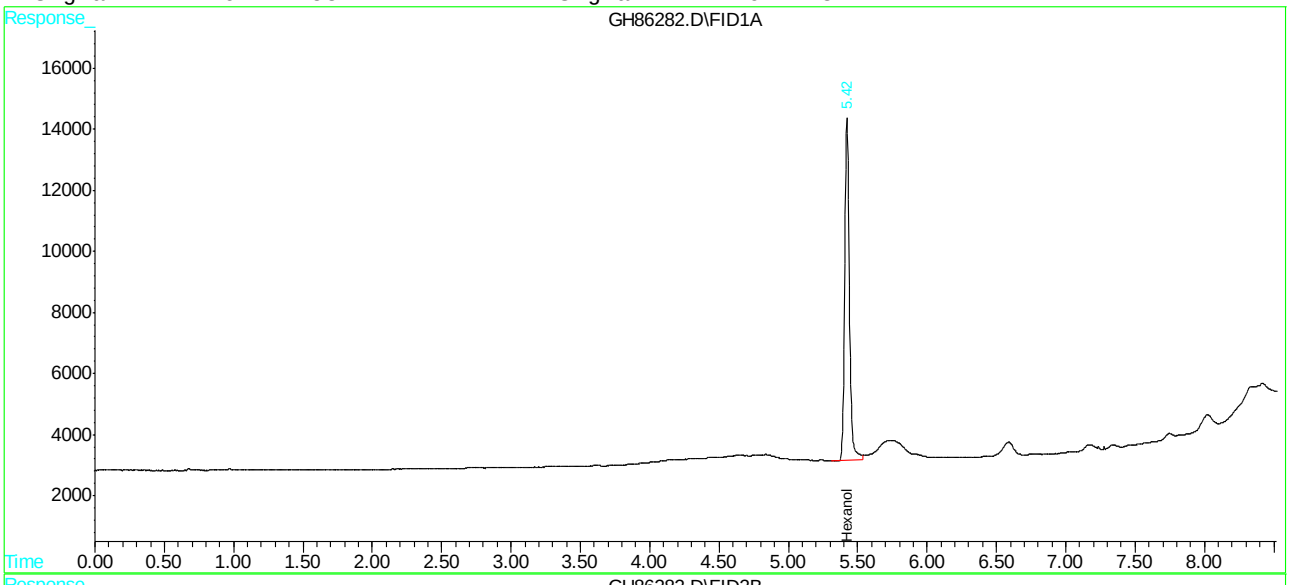
Quantitation Report (QT Reviewed)

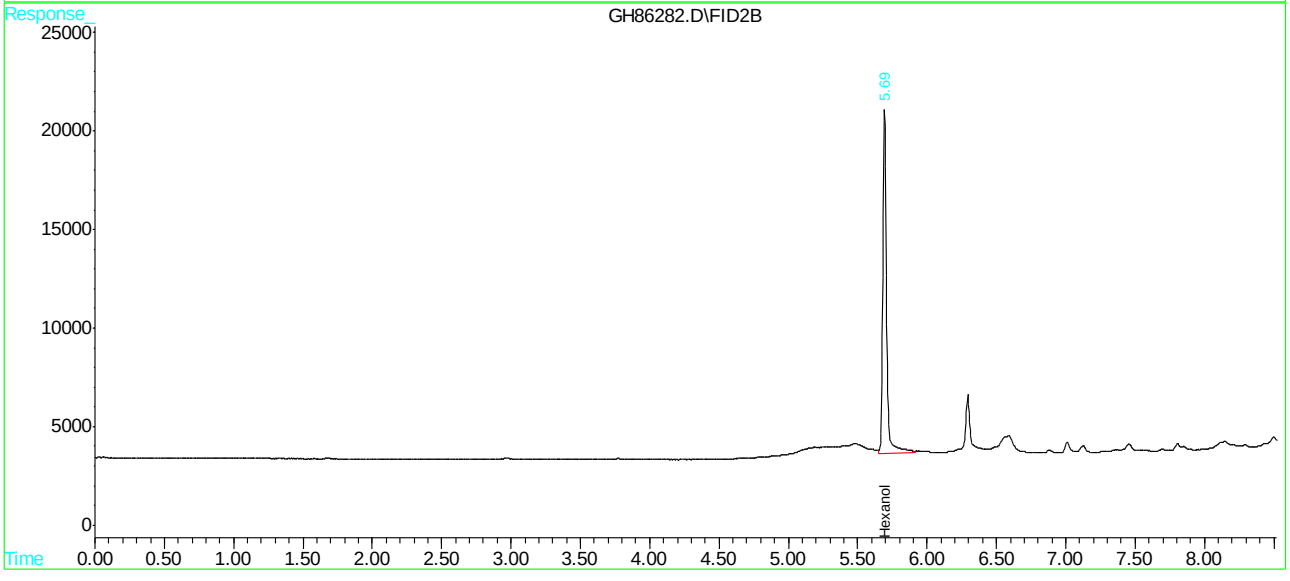
```
Data File : C:\HPCHEM\1\DATA\GH86282.D\FID1A.CH          Vial: 1
Acq On    :  7 Feb 2012   9:07 am                    Operator: XULIU
Sample    : MB1                                      Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86282.D\FID2B.CH          Vial: 1
Acq On    :  7 Feb 2012   9:22 am                    Operator: XULIU
Sample    : MB1                                      Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  7 16:45 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86335.D\FID1A.CH          Vial: 29
Acq On    :  9 Feb 2012   7:49 am                    Operator: XULIU
Sample    : MB                                       Inst    : GCGH
Misc      : GC38317,GGH3959,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86335.D\FID2B.CH          Vial: 29
Acq On    :  9 Feb 2012   8:04 am                    Operator: XULIU
Sample    : MB                                       Inst    : GCGH
Misc      : GC38317,GGH3959,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  9 10:35 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
-----------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.42   5.67f   212305   249171 3441.678  3370.862
  Spiked Amount   5000.000                  Recovery     =   68.83%    67.42%

Target Compounds
```

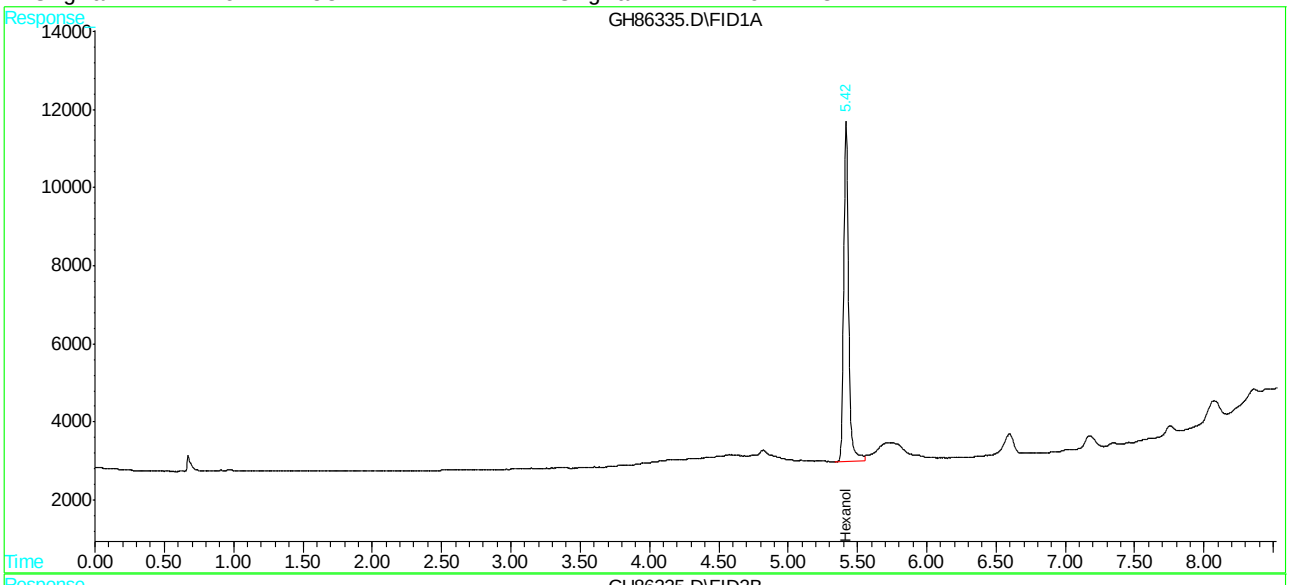
Quantitation Report (QT Reviewed)

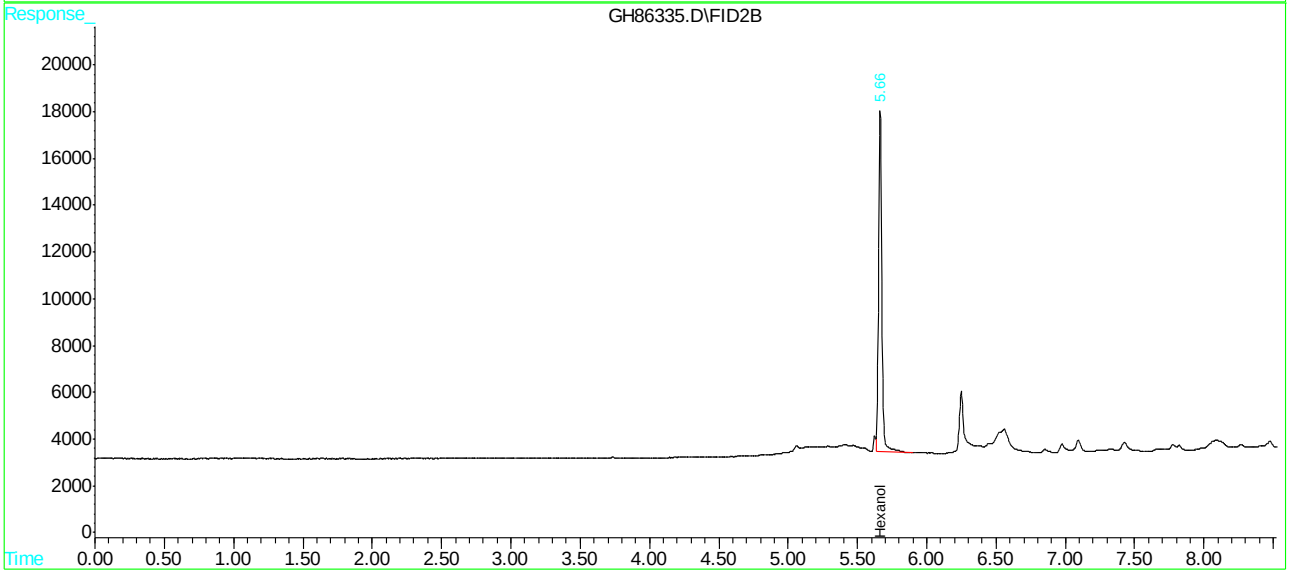
```
Data File : C:\HPCHEM\1\DATA\GH86335.D\FID1A.CH          Vial: 29
Acq On    :  9 Feb 2012   7:49 am                    Operator: XULIU
Sample    : MB                                       Inst    : GCGH
Misc      : GC38317,GGH3959,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86335.D\FID2B.CH          Vial: 29
Acq On    :  9 Feb 2012   8:04 am                    Operator: XULIU
Sample    : MB                                       Inst    : GCGH
Misc      : GC38317,GGH3959,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  9 10:35 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86283.D\FID1A.CH          Vial: 4
Acq On    :  7 Feb 2012   9:38 am                    Operator: XULIU
Sample    : BS                                       Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86283.D\FID2B.CH          Vial: 4
Acq On    :  7 Feb 2012   9:53 am                    Operator: XULIU
Sample    : BS                                       Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  7 16:46 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.42	5.69	279439	332145	4529.992	4493.363
	Spiked Amount 5000.000			Recovery	=	90.60%	89.87%
	Target Compounds						
1)	Methanol	0.97	1.08	70157	65260	4463.682	4803.418
2)	Ethanol	1.27	1.38	101187	105678	4455.498	4569.795
3)	Tert-Butyl Alcoh	1.77f	1.99f	150400	168258	4331.957	4628.167
4)	1-Propanol	2.26f	2.39f	130077	138729	4513.646	4974.386
5)	2-Propanol	1.54f	1.69	108984	117046	4243.500	4404.640
7)	Isobutanol	3.14f	3.33f	153135	159104	4368.363	4625.800
8)	1-Butanol	3.62	3.78	138818	146719	4384.897	4474.516
9)	2-Butanol	2.72f	2.96f	133638	137978	4411.348	4743.089

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH86283.D MGH3933.M Fri Feb 10 15:41:46 2012 GCGH

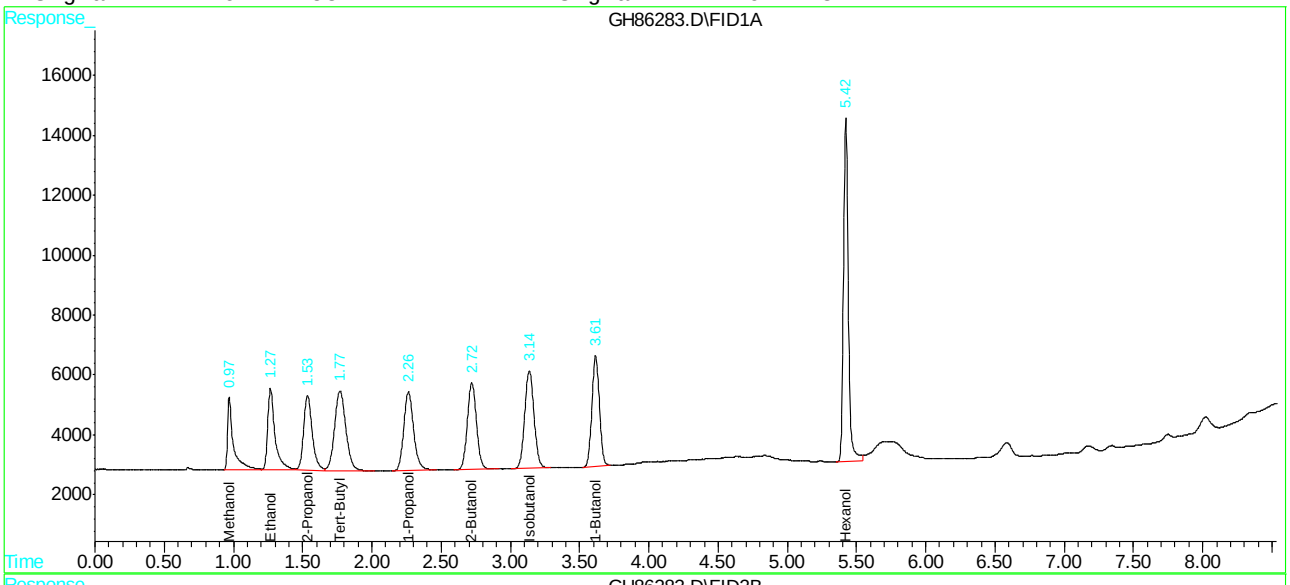
Quantitation Report (QT Reviewed)

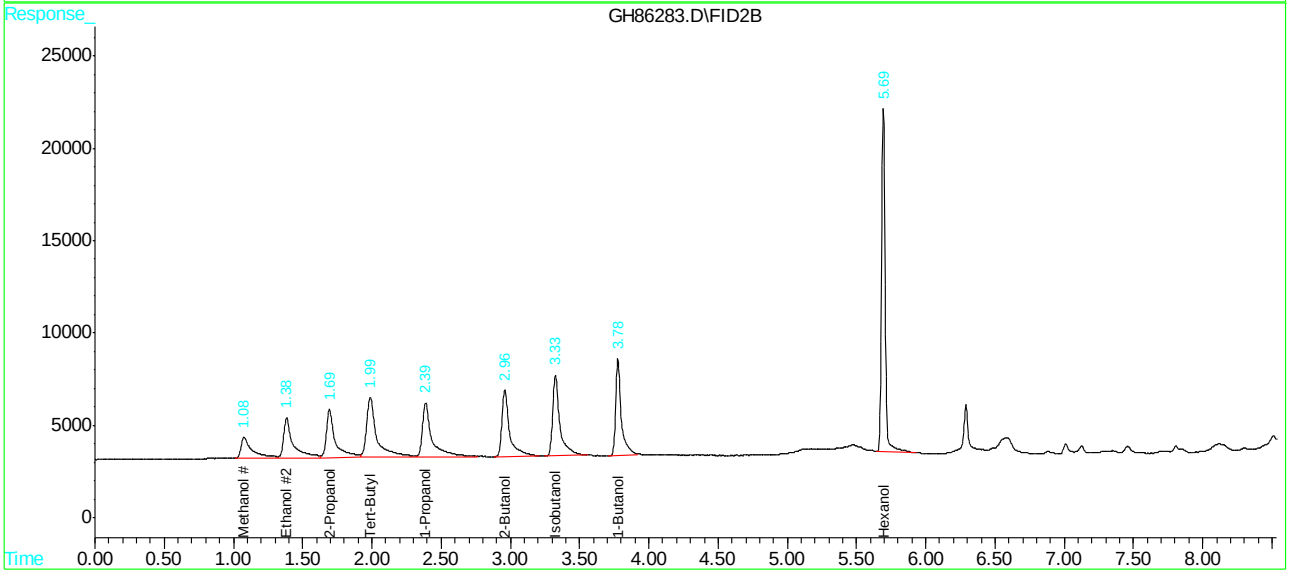
Data File : C:\HPCHEM\1\DATA\GH86283.D\FID1A.CH Vial: 4
Acq On : 7 Feb 2012 9:38 am Operator: XULIU
Sample : BS Inst : GCGH
Misc : GC38285,GGH3957,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86283.D\FID2B.CH Vial: 4
Acq On : 7 Feb 2012 9:53 am Operator: XULIU
Sample : BS Inst : GCGH
Misc : GC38285,GGH3957,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Feb 7 16:46 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86336.D\FID1A.CH          Vial: 4
Acq On    :  9 Feb 2012   8:17 am                    Operator: XULIU
Sample    : BS                                       Inst    : GCGH
Misc      : GC38285,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86336.D\FID2B.CH          Vial: 4
Acq On    :  9 Feb 2012   8:31 am                    Operator: XULIU
Sample    : BS                                       Inst    : GCGH
Misc      : GC38285,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  9 11:05 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Feb 09 08:46:39 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.40	5.67	279622	320065	4532.966	4329.951
	Spiked Amount 5000.000			Recovery	=	90.66%	86.60%
	Target Compounds						
1)	Methanol	0.95	1.04	76251	65087	4851.387	4790.626
2)	Ethanol	1.24	1.34	109450	100293	4819.353	4336.955
3)	Tert-Butyl Alcoh	1.74	1.94	181254	158869	5220.670	4369.886
4)	1-Propanol	2.22	2.33	143530	112376	4980.452	4029.438
5)	2-Propanol	1.50	1.65	116678	112468	4543.076	4232.349
7)	Isobutanol	3.10	3.27	168599	173374	4809.507	5040.661
8)	1-Butanol	3.59	3.73	157358	160016	4970.529	4880.032
9)	2-Butanol	2.69	2.91	145941	145093	4817.481	4987.685

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH86336.D MGH3933.M Thu Feb 09 17:13:18 2012 GCGH

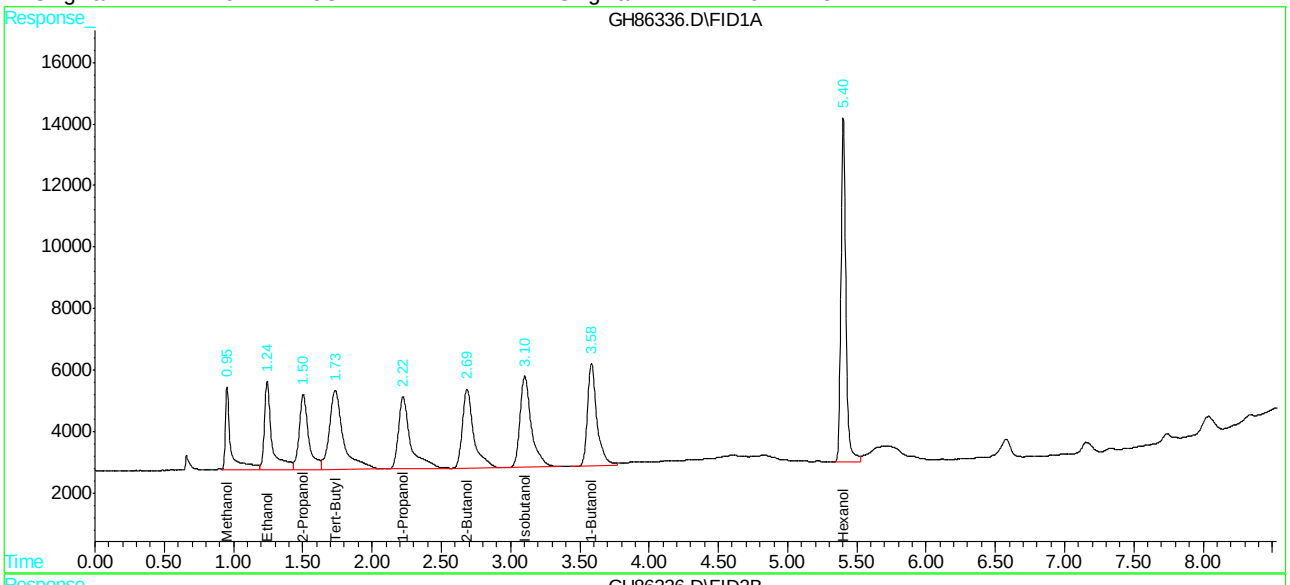
Quantitation Report (QT Reviewed)

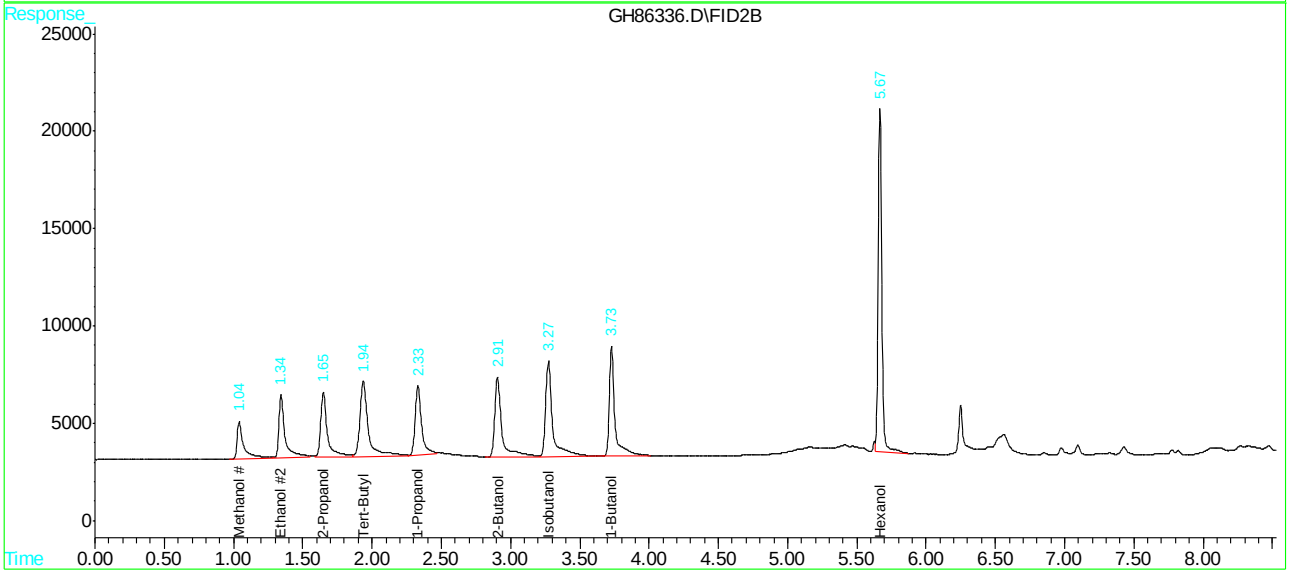
Data File : C:\HPCHEM\1\DATA\GH86336.D\FID1A.CH Vial: 4
Acq On : 9 Feb 2012 8:17 am Operator: XULIU
Sample : BS Inst : GCGH
Misc : GC38285,GGH3960,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86336.D\FID2B.CH Vial: 4
Acq On : 9 Feb 2012 8:31 am Operator: XULIU
Sample : BS Inst : GCGH
Misc : GC38285,GGH3960,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Feb 9 11:05 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Feb 09 08:46:39 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86287.D\FID1A.CH          Vial: 8
Acq On    :  7 Feb 2012  11:34 am                    Operator: XULIU
Sample    : JA98540-8MS                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86287.D\FID2B.CH          Vial: 8
Acq On    :  7 Feb 2012  11:48 am                    Operator: XULIU
Sample    : JA98540-8MS                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  7 16:47 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.42	5.69	349699	460793	5668.986	6233.759
	Spiked Amount 5000.000			Recovery	=	113.38%	124.68%
	Target Compounds						
1)	Methanol	0.97	1.09f	173522	147125	11040.171	10828.998
2)	Ethanol	1.26	1.39f	95225	119641	4192.973	5173.597
3)	Tert-Butyl Alcoh	1.76	1.99f	144532	162221	4162.950	4462.093
4)	1-Propanol	2.25	2.39f	120735	126660	4189.460	4541.635
5)	2-Propanol	1.53	1.70f	104064	113692	4051.916	4278.412
7)	Isobutanol	3.13	3.33f	142355	149699	4060.854	4352.342
8)	1-Butanol	3.61	3.78	131422	136927	4151.280	4175.863
9)	2-Butanol	2.71	2.96f	127196	127787	4198.719	4392.772

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

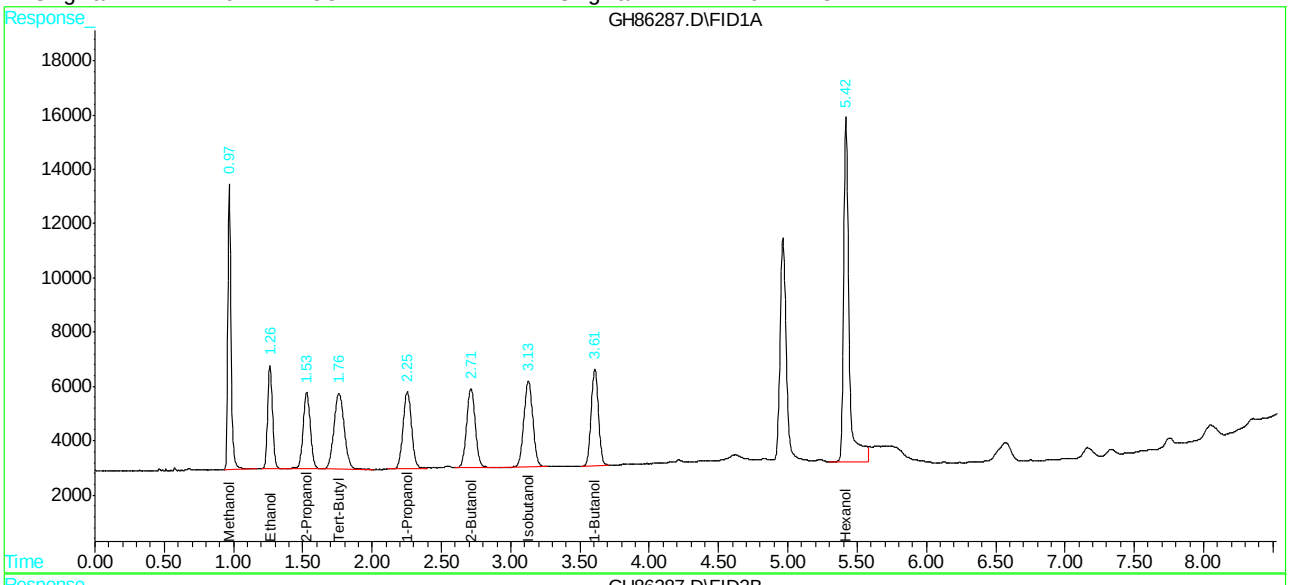
Quantitation Report (QT Reviewed)

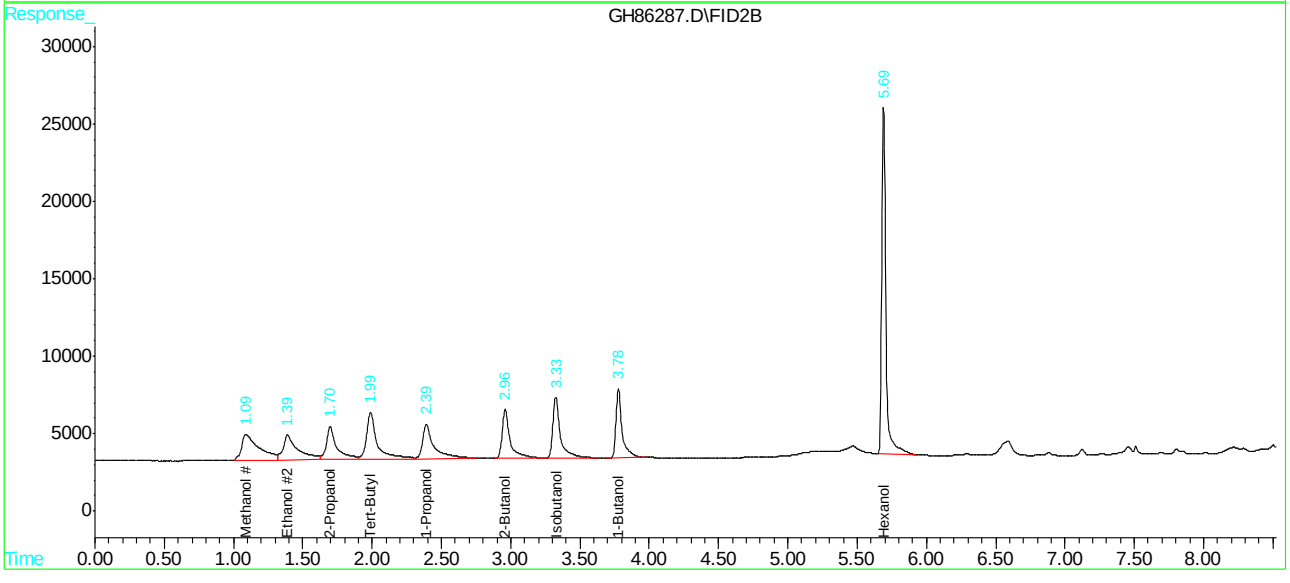
Data File : C:\HPCHEM\1\DATA\GH86287.D\FID1A.CH Vial: 8
Acq On : 7 Feb 2012 11:34 am Operator: XULIU
Sample : JA98540-8MS Inst : GCGH
Misc : GC38285,GGH3957,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86287.D\FID2B.CH Vial: 8
Acq On : 7 Feb 2012 11:48 am Operator: XULIU
Sample : JA98540-8MS Inst : GCGH
Misc : GC38285,GGH3957,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Feb 7 16:47 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86288.D\FID1A.CH          Vial: 9
Acq On    :  7 Feb 2012  11:48 am                    Operator: XULIU
Sample    : JA98540-8MSD                             Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86288.D\FID2B.CH          Vial: 9
Acq On    :  7 Feb 2012  11:58 am                    Operator: XULIU
Sample    : JA98540-8MSD                             Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  7 16:47 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
10) S Hexanol	5.42	5.69	304312	454137	4933.215	6143.713
Spiked Amount 5000.000			Recovery	=	98.66%	122.87%
Target Compounds						
1) Methanol	0.97	1.07	166323	133419	10582.174	9820.149
2) Ethanol	1.26	1.38	95984	107243	4226.410	4637.469
3) Tert-Butyl Alcoh	1.76	1.99	152329	169282	4387.539	4656.329
4) 1-Propanol	2.25	2.39	125731	112599	4362.834	4037.421
5) 2-Propanol	1.53	1.69	109443	115641	4261.379	4351.768
7) Isobutanol	3.13	3.32	150923	162191	4305.281	4715.551
8) 1-Butanol	3.61	3.78	132801	150476	4194.839	4589.069
9) 2-Butanol	2.71	2.96	131990	127110	4356.940	4369.503

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH86288.D MGH3933.M Fri Feb 10 15:58:06 2012 GCGH

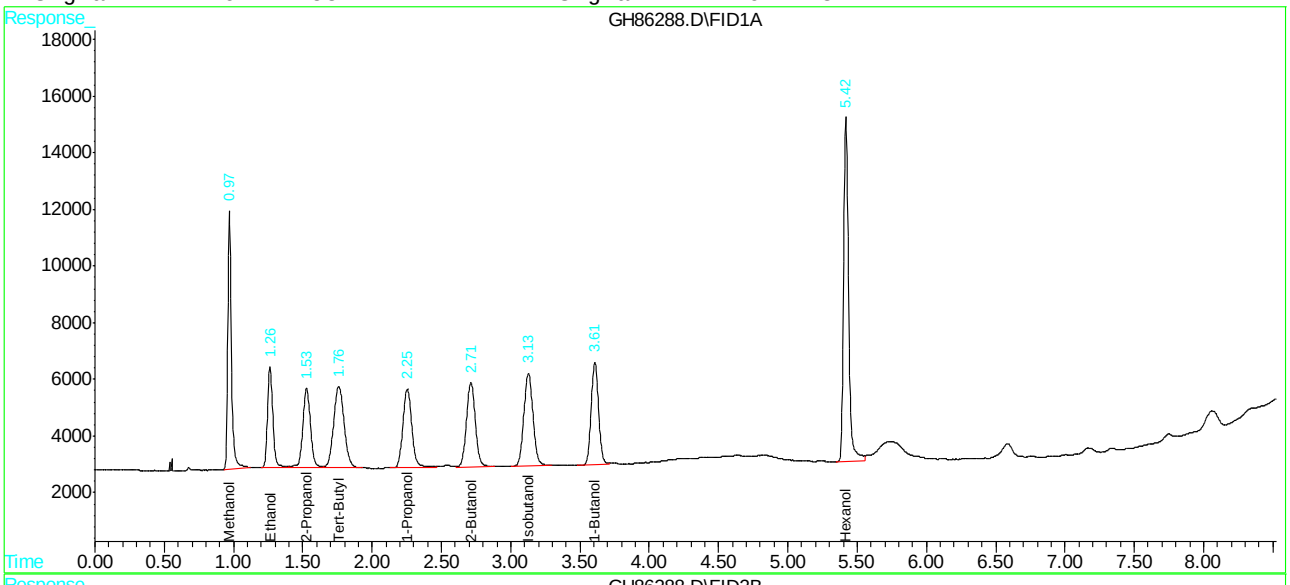
Quantitation Report (QT Reviewed)

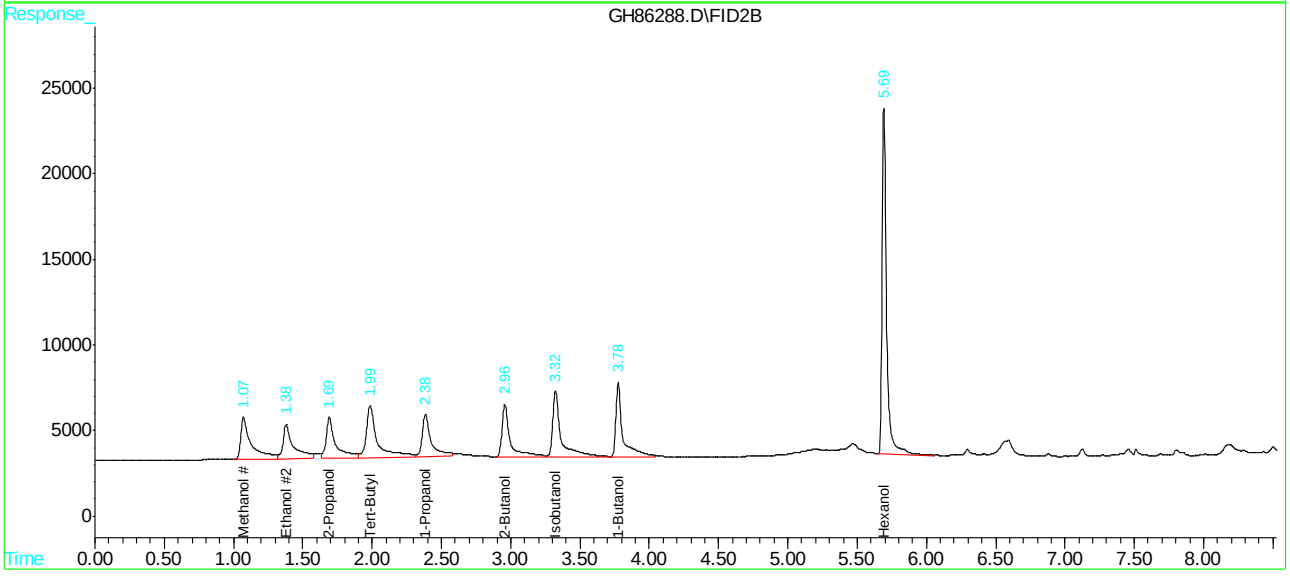
Data File : C:\HPCHEM\1\DATA\GH86288.D\FID1A.CH Vial: 9
Acq On : 7 Feb 2012 11:48 am Operator: XULIU
Sample : JA98540-8MSD Inst : GCGH
Misc : GC38285,GGH3957,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86288.D\FID2B.CH Vial: 9
Acq On : 7 Feb 2012 11:58 am Operator: XULIU
Sample : JA98540-8MSD Inst : GCGH
Misc : GC38285,GGH3957,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Feb 7 16:47 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86339.D\FID1A.CH          Vial: 13
Acq On    :  9 Feb 2012   9:53 am                    Operator: XULIU
Sample    : JA98540-2MS                              Inst    : GCGH
Misc      : GC38285,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86339.D\FID2B.CH          Vial: 13
Acq On    :  9 Feb 2012  10:08 am                    Operator: XULIU
Sample    : JA98540-2MS                              Inst    : GCGH
Misc      : GC38285,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  9 11:07 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Feb 09 08:46:39 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.40	5.69f	356005	413500	5771.212	5593.971
	Spiked Amount 5000.000			Recovery	=	115.42%	111.88%
	Target Compounds						
1)	Methanol	0.95	1.07f	271852	256317	17296.327	18865.915
2)	Ethanol	1.24	1.36	98943	117052	4356.710	5061.650
3)	Tert-Butyl Alcoh	1.73	1.94	144270	153510	4155.421	4222.498
4)	1-Propanol	2.22	2.34	121206	119227	4205.835	4275.106
5)	2-Propanol	1.50	1.66	103649	113331	4035.788	4264.833
7)	Isobutanol	3.10	3.28	139783	144826	3987.501	4210.666
8)	1-Butanol	3.58	3.73	127812	138080	4037.259	4211.036
9)	2-Butanol	2.68	2.91	123613	126750	4080.424	4357.124

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

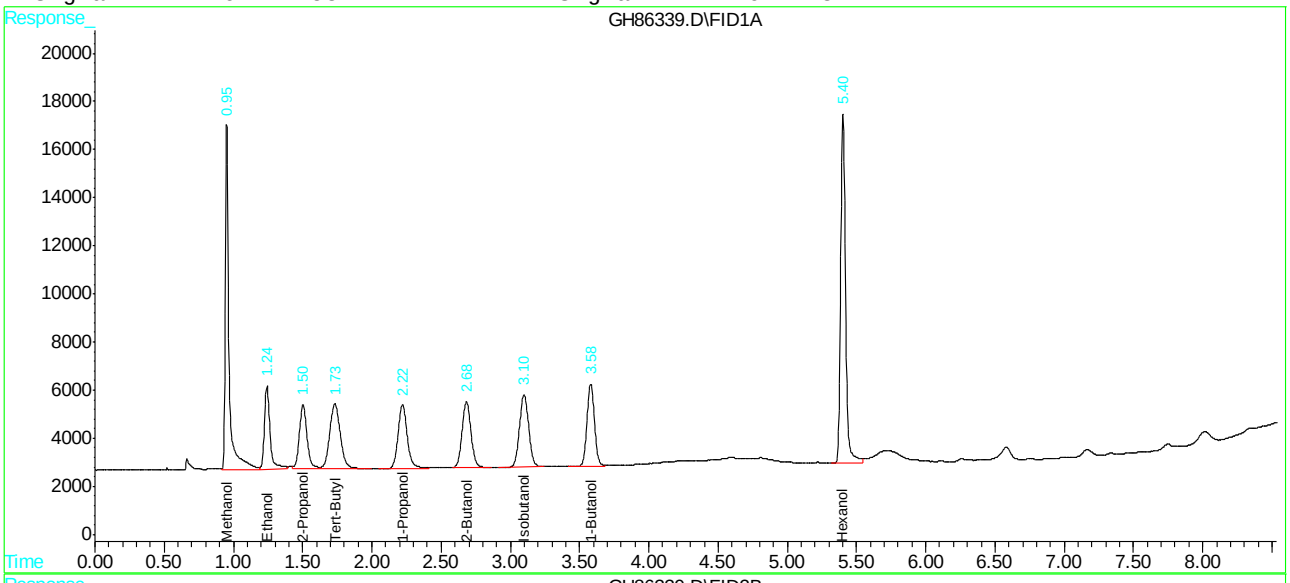
Quantitation Report (QT Reviewed)

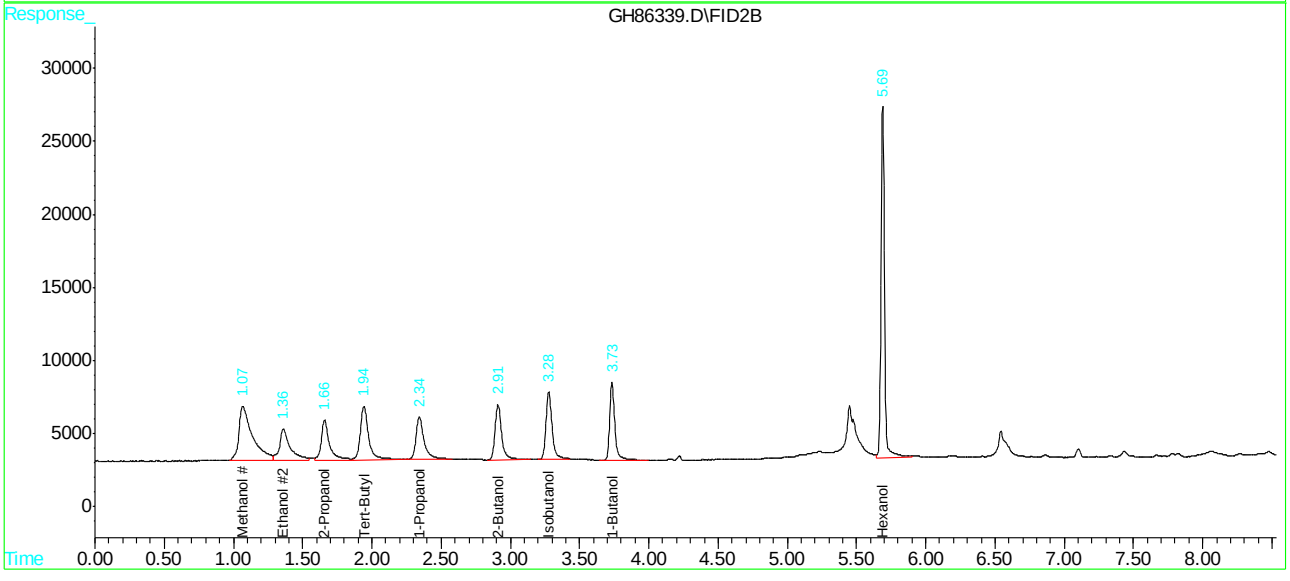
Data File : C:\HPCHEM\1\DATA\GH86339.D\FID1A.CH Vial: 13
Acq On : 9 Feb 2012 9:53 am Operator: XULIU
Sample : JA98540-2MS Inst : GCGH
Misc : GC38285,GGH3960,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86339.D\FID2B.CH Vial: 13
Acq On : 9 Feb 2012 10:08 am Operator: XULIU
Sample : JA98540-2MS Inst : GCGH
Misc : GC38285,GGH3960,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Feb 9 11:07 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Feb 09 08:46:39 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86340.D\FID1A.CH          Vial: 14
Acq On    :  9 Feb 2012  10:08 am                    Operator: XULIU
Sample    : JA98540-2MSD                             Inst    : GCGH
Misc      : GC38285,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86340.D\FID2B.CH          Vial: 14
Acq On    :  9 Feb 2012  10:22 am                    Operator: XULIU
Sample    : JA98540-2MSD                             Inst    : GCGH
Misc      : GC38285,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  9 11:08 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Feb 09 11:08:06 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
10) S Hexanol	5.42	5.67	262421	399549	4254.111	5405.225
Spiked Amount 5000.000			Recovery	=	85.08%	108.10%
Target Compounds						
1) Methanol	0.96	1.06	273463	259668	17398.847	19112.549
2) Ethanol	1.25	1.36	104675	101070	4609.112	4370.553
3) Tert-Butyl Alcoh	1.75	1.94	151474	150557	4362.894	4141.269
4) 1-Propanol	2.24	2.34	124357	126951	4315.162	4552.048
5) 2-Propanol	1.52	1.66	105680	100681	4114.846	3788.764
7) Isobutanol	3.12	3.28	144636	149945	4125.928	4359.509
8) 1-Butanol	3.60	3.73	133130	141311	4205.237	4309.577
9) 2-Butanol	2.70	2.91	126633	129955	4180.117	4467.281

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH86340.D MGH3933.M Thu Feb 09 16:35:41 2012 GCGH

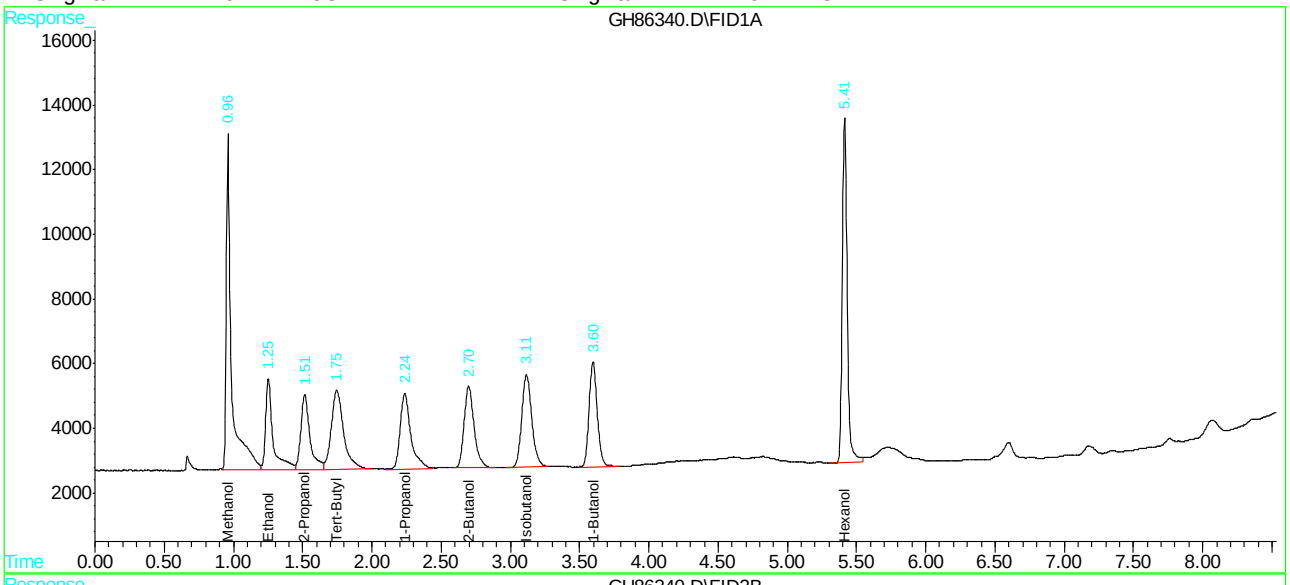
Quantitation Report (QT Reviewed)

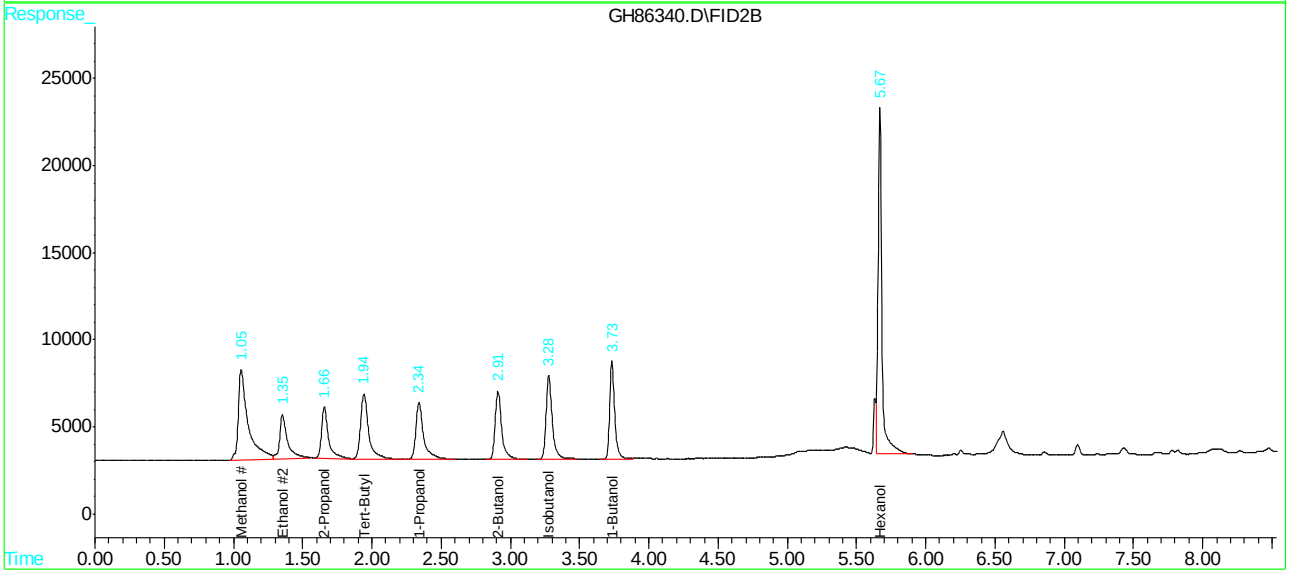
Data File : C:\HPCHEM\1\DATA\GH86340.D\FID1A.CH Vial: 14
Acq On : 9 Feb 2012 10:08 am Operator: XULIU
Sample : JA98540-2MSD Inst : GCGH
Misc : GC38285,GGH3960,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86340.D\FID2B.CH Vial: 14
Acq On : 9 Feb 2012 10:22 am Operator: XULIU
Sample : JA98540-2MSD Inst : GCGH
Misc : GC38285,GGH3960,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Feb 9 11:08 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Feb 09 11:08:06 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Manual Integrations APPROVED (compounds with "m" flag)
Jessica Reitan-Chu
01/13/12 14:23

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86026.D\FID1A.CH          Vial: 95
Acq On    : 12 Jan 2012   8:58 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86026.D\FID2B.CH          Vial: 95
Acq On    : 12 Jan 2012   9:12 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 12:22 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 14:00:23 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.42	5.70	52929	73036	858.034	988.058
	Spiked Amount 5000.000			Recovery	=	17.16%	19.76%
	Target Compounds						
1)	Methanol	0.96	1.07	1381	1384	88.243m	103.098
2)	Ethanol	1.26	1.38	2396	2238	106.350	98.025
3)	Tert-Butyl Alcoh	1.76	1.98	3370	3425	96.705	95.451
4)	1-Propanol	2.24	2.37	3201	2555	109.340m	92.809
5)	2-Propanol	1.53	1.69	3390	2659	132.746	101.842
7)	Isobutanol	3.12	3.31	3492	3415	99.501	99.285
8)	1-Butanol	3.61	3.77	3344	3145	105.046	95.927
9)	2-Butanol	2.70	2.95	3108	2193	105.039m	76.402m

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH86026.D MGH3933.M Fri Jan 13 12:24:26 2012 GCGH

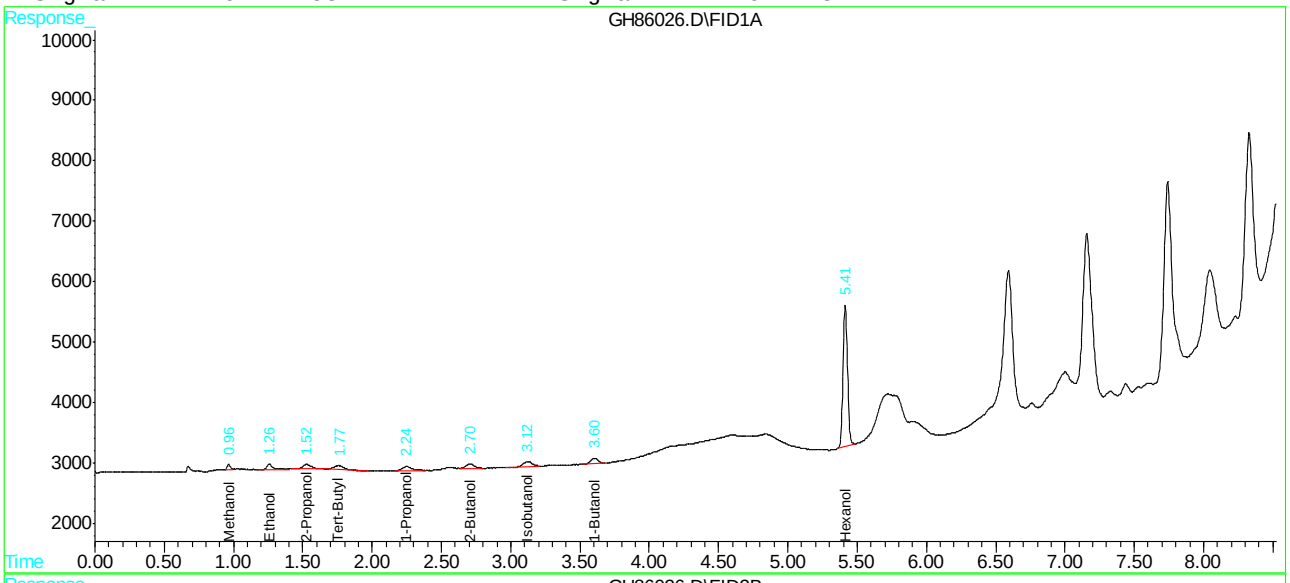
Quantitation Report (QT Reviewed)

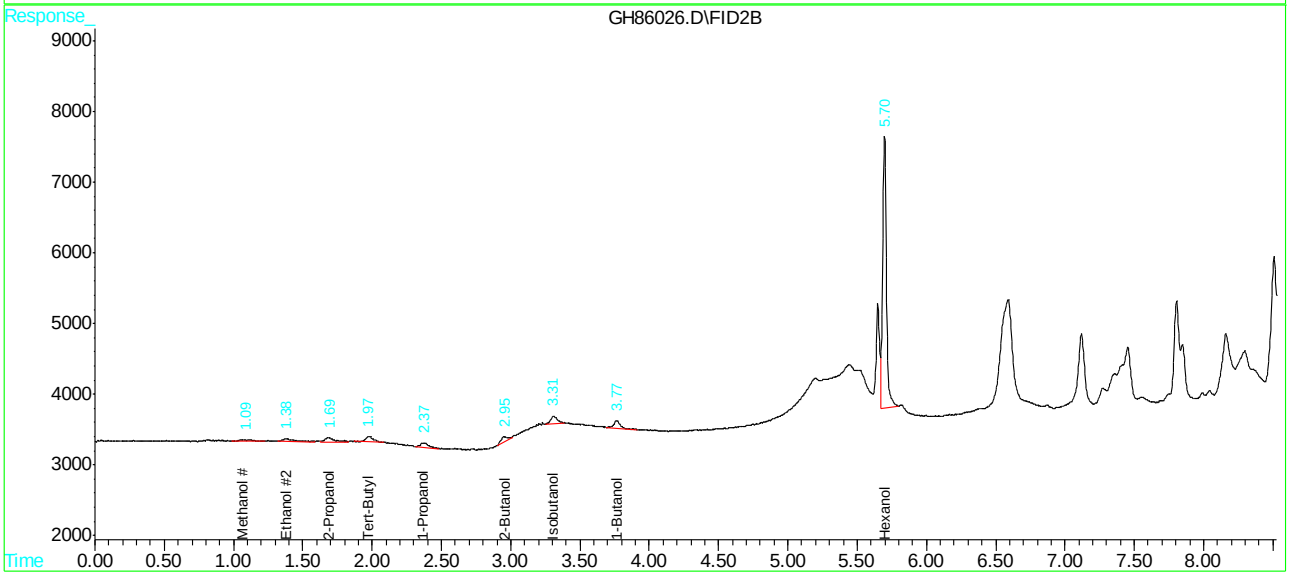
Data File : C:\HPCHEM\1\DATA\GH86026.D\FID1A.CH Vial: 95
Acq On : 12 Jan 2012 8:58 am Operator: XULIU
Sample : IC3933-100 Inst : GCGH
Misc : GC38074,GGH3933,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86026.D\FID2B.CH Vial: 95
Acq On : 12 Jan 2012 9:12 am Operator: XULIU
Sample : IC3933-100 Inst : GCGH
Misc : GC38074,GGH3933,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 13 12:22 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Jan 12 14:00:23 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Manual Integration Approval Summary

Sample Number:	GGH3933-IC3933	**Method:**	SW846-8015 (DAI)
Lab FileID:	GH86026.D	**Analyst approved:**	01/13/12 12:29 Xu Liu
Injection Time:	01/12/12 08:58	**Supervisor approved:**	01/13/12 14:23 Jessica Reitan-Chu

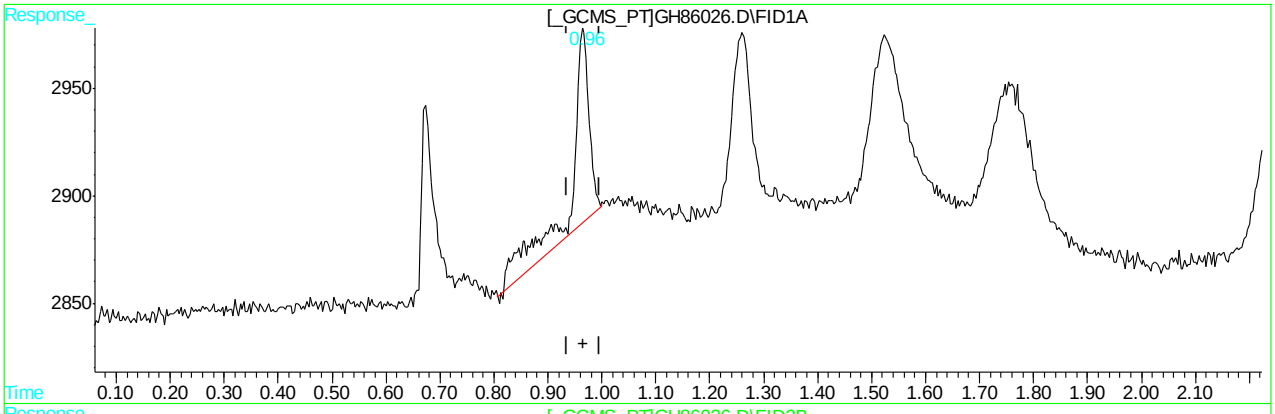
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methanol	67-56-1	1	0.96	Poor instrument integration
n-Propyl Alcohol	71-23-8	1	2.24	Missed peak
sec-Butyl Alcohol	78-92-2	1	2.70	Missed peak
sec-Butyl Alcohol	78-92-2	2	2.95	Missed peak

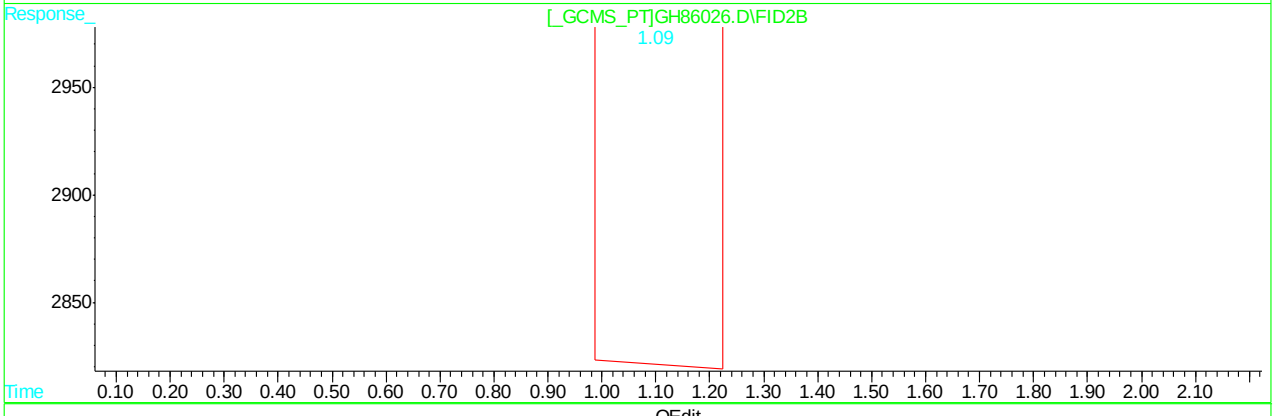
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86026.D\FID1A.CH          Vial: 95
Acq On    : 12 Jan 2012   8:58 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86026.D\FID2B.CH          Vial: 95
Acq On    : 12 Jan 2012   9:12 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 10:25 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 14:00:23 2012
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

0.97min 128.481PPB

response 2010

(1) Methanol #2

1.07min 103.098PPB

response 1384

(+) = Expected Retention Time

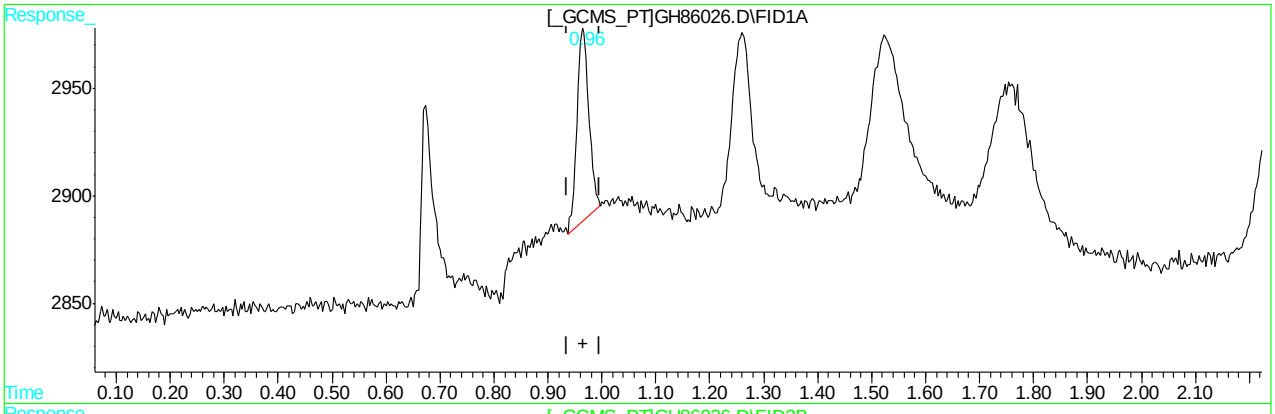
GH86026.D MGH3933.M Fri Jan 13 10:36:58 2012 GCGH

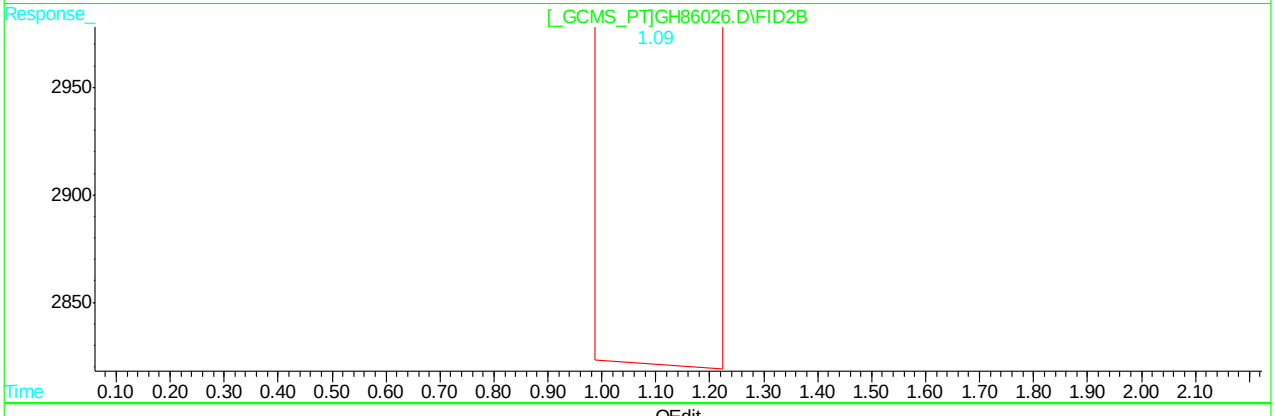
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86026.D\FID1A.CH          Vial: 95
Acq On    : 12 Jan 2012   8:58 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86026.D\FID2B.CH          Vial: 95
Acq On    : 12 Jan 2012   9:12 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 10:25 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 14:00:23 2012
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

0.96min 88.243PPB m

response 1381

(1) Methanol #2

1.07min 103.098PPB

response 1384

(+) = Expected Retention Time

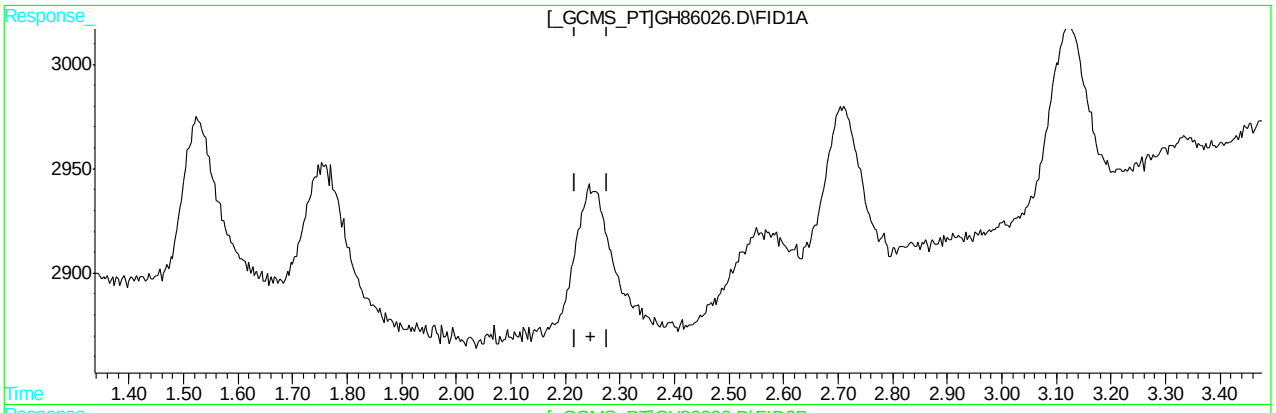
GH86026.D MGH3933.M Fri Jan 13 10:37:52 2012 GCGH

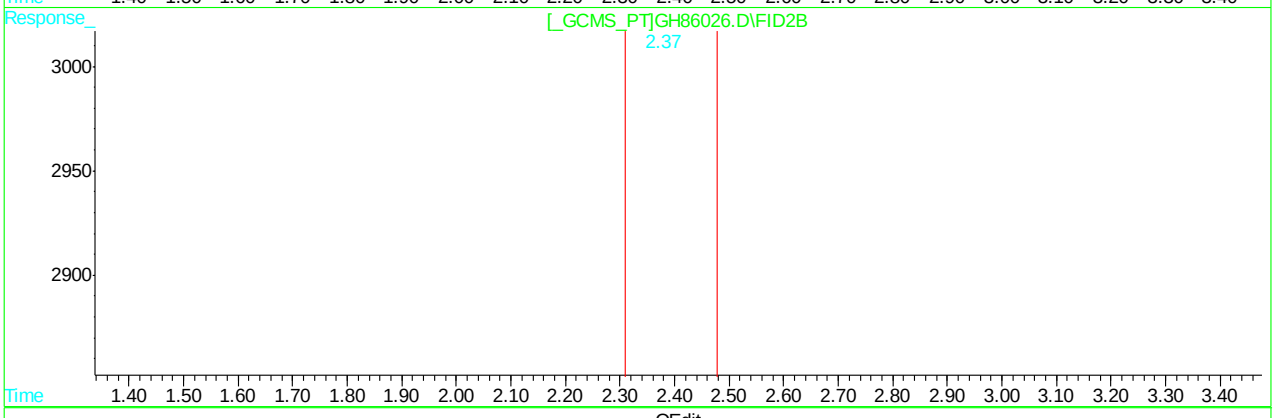
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86026.D\FID1A.CH          Vial: 95
Acq On    : 12 Jan 2012   8:58 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86026.D\FID2B.CH          Vial: 95
Acq On    : 12 Jan 2012   9:12 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 10:25 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 14:00:23 2012
Response via : Multiple Level Calibration
```





QEdit

(4) 1-Propanol

0.00min 0.000PPB

response 0

(4) 1-Propanol #2

2.37min 92.809PPB

response 2555

(+) = Expected Retention Time

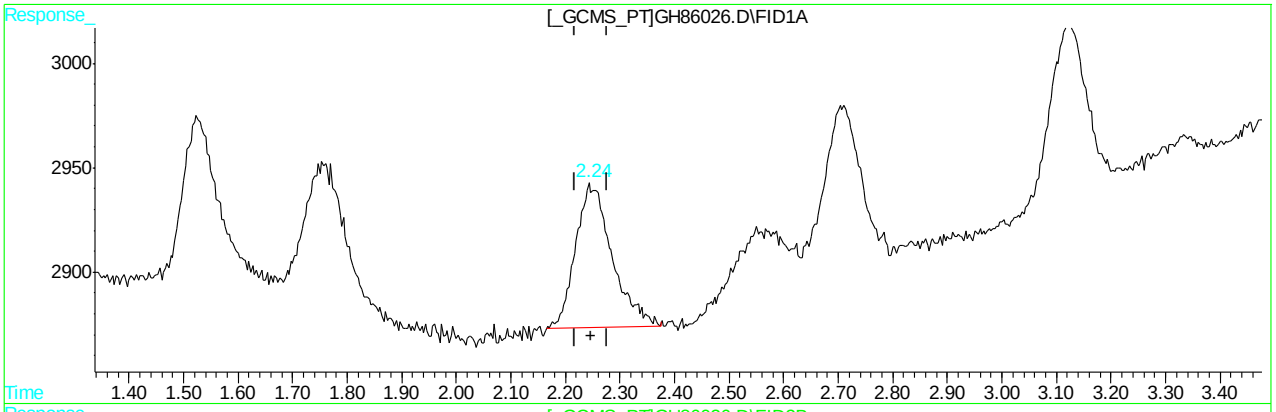
GH86026.D MGH3933.M Fri Jan 13 10:38:10 2012 GCGH

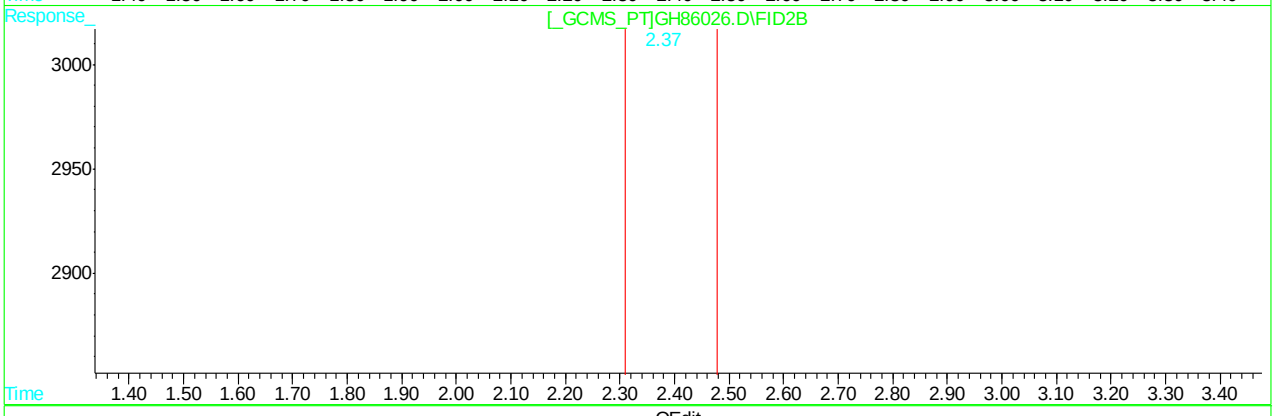
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86026.D\FID1A.CH          Vial: 95
Acq On    : 12 Jan 2012   8:58 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86026.D\FID2B.CH          Vial: 95
Acq On    : 12 Jan 2012   9:12 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 10:25 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 14:00:23 2012
Response via : Multiple Level Calibration
```





QEdit

(4) 1-Propanol

2.24min 109.340PPB m

response 3201

(4) 1-Propanol #2

2.37min 92.809PPB

response 2555

(+) = Expected Retention Time

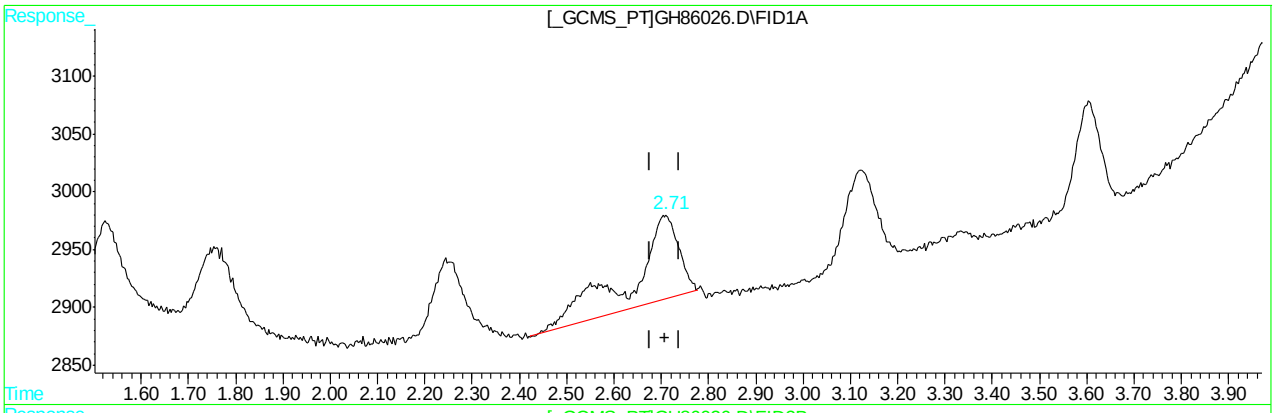
GH86026.D MGH3933.M Fri Jan 13 10:38:35 2012 GCGH

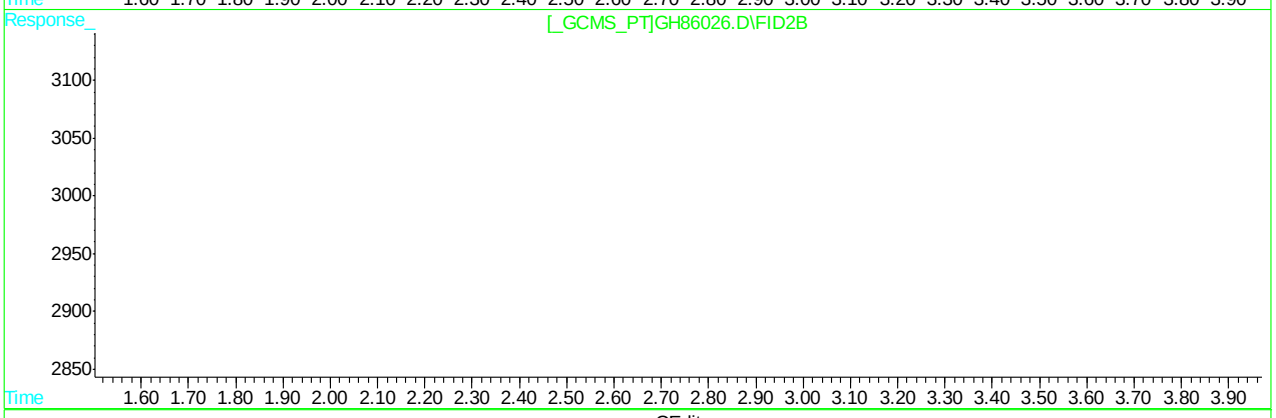
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86026.D\FID1A.CH          Vial: 95
Acq On    : 12 Jan 2012   8:58 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86026.D\FID2B.CH          Vial: 95
Acq On    : 12 Jan 2012   9:12 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 10:25 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 14:00:23 2012
Response via : Multiple Level Calibration
```





QEdit

(9) 2-Butanol

2.71min 169.525PPB

response 5016

(9) 2-Butanol #2

2.96min -94.886PPB

response -2724

(+) = Expected Retention Time

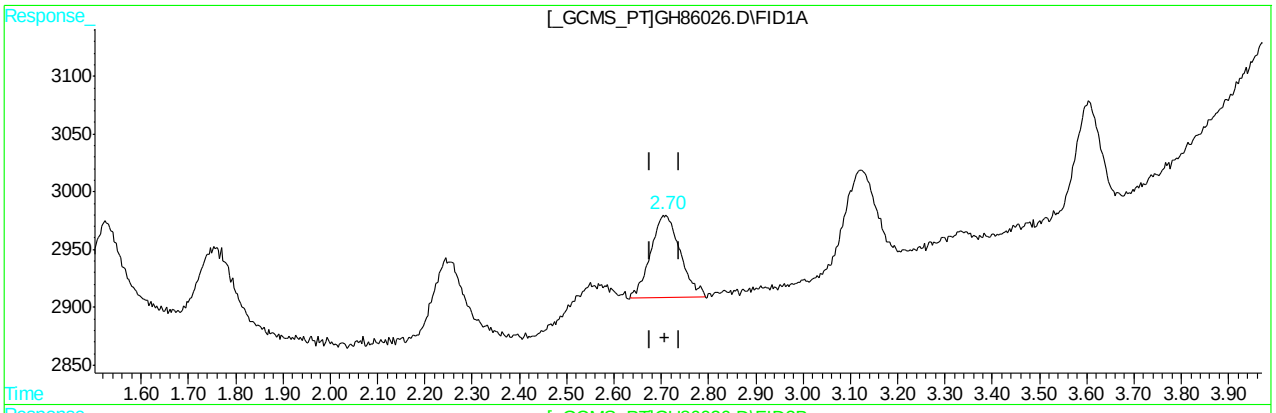
GH86026.D MGH3933.M Fri Jan 13 10:39:01 2012 GCGH

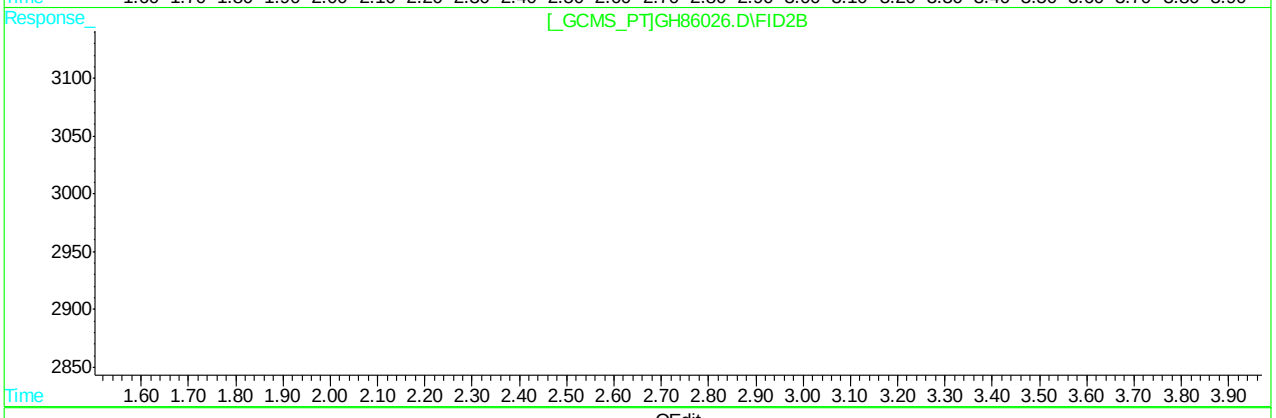
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86026.D\FID1A.CH          Vial: 95
Acq On    : 12 Jan 2012   8:58 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86026.D\FID2B.CH          Vial: 95
Acq On    : 12 Jan 2012   9:12 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 10:25 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 14:00:23 2012
Response via : Multiple Level Calibration
```





QEdit

(9) 2-Butanol

2.70min 105.039PPB m

response 3108

(9) 2-Butanol #2

2.96min -94.886PPB

response -2724

(+) = Expected Retention Time

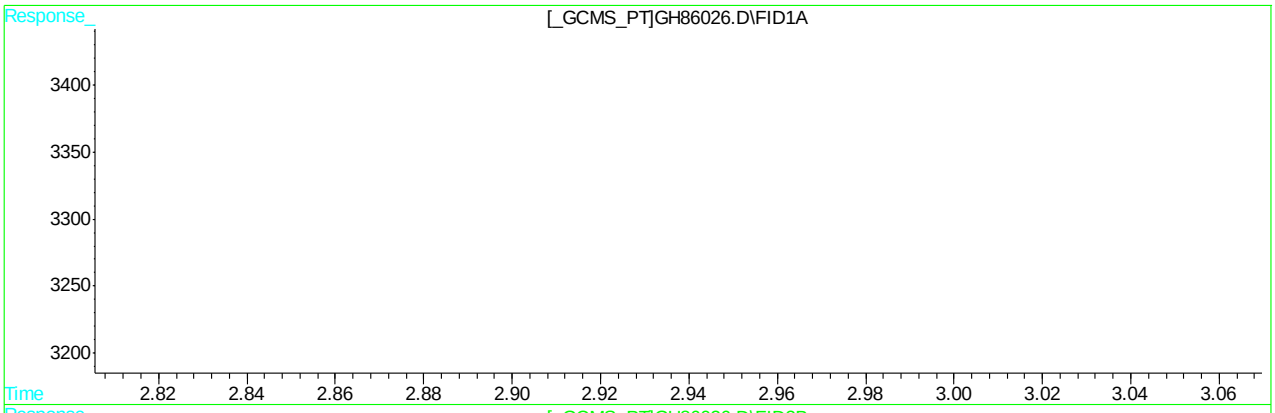
GH86026.D MGH3933.M Fri Jan 13 10:40:25 2012 GCGH

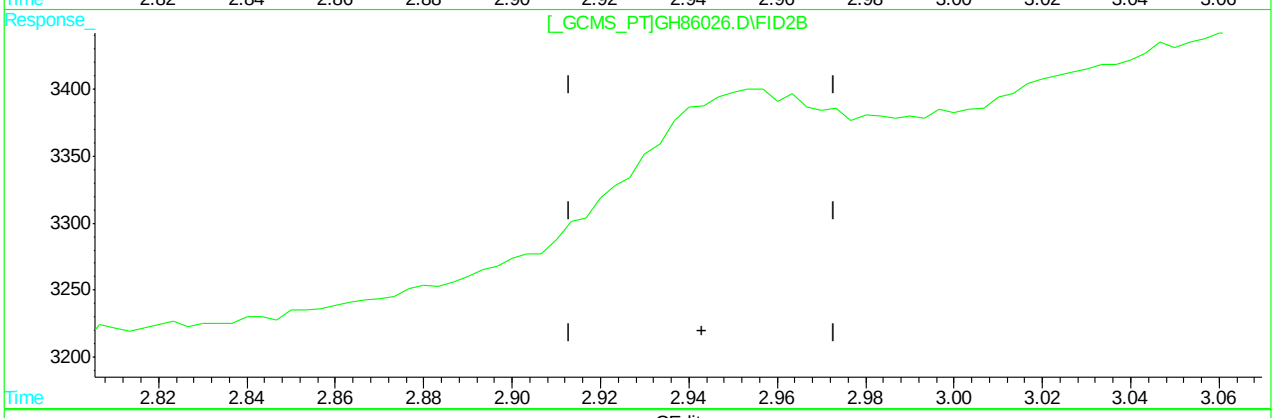
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86026.D\FID1A.CH          Vial: 95
Acq On    : 12 Jan 2012   8:58 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86026.D\FID2B.CH          Vial: 95
Acq On    : 12 Jan 2012   9:12 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 10:40 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Jan 13 11:15:27 2012
Response via : Multiple Level Calibration
```





QEdit

(9) 2-Butanol

2.70min 105.039PPB m

response 3108

(9) 2-Butanol #2

2.96min -94.886PPB

response -2724

(+) = Expected Retention Time

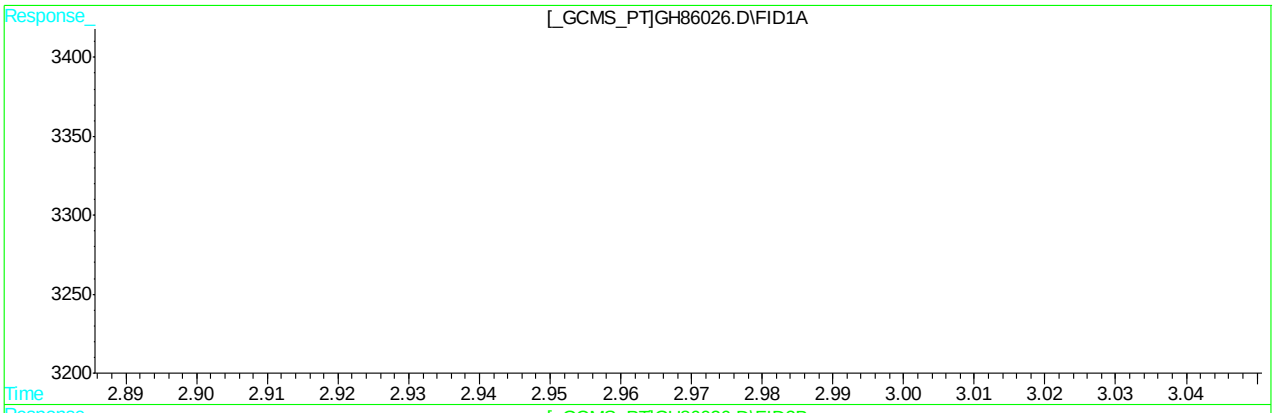
GH86026.D MGH3933.M Fri Jan 13 12:20:24 2012 GCGH

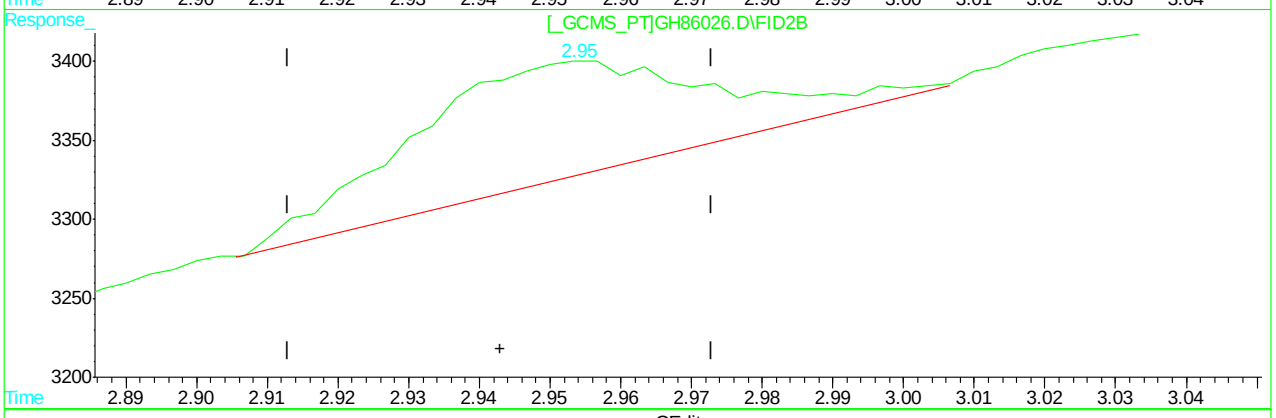
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86026.D\FID1A.CH          Vial: 95
Acq On    : 12 Jan 2012   8:58 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86026.D\FID2B.CH          Vial: 95
Acq On    : 12 Jan 2012   9:12 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38074,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 10:40 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Jan 13 11:15:27 2012
Response via : Multiple Level Calibration
```





QEdit

(9) 2-Butanol

2.70min 105.039PPB m

response 3108

(9) 2-Butanol #2

2.95min 76.402PPB m

response 2193

(+) = Expected Retention Time

GH86026.D MGH3933.M Fri Jan 13 12:22:46 2012 GCGH

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86027.D\FID1A.CH          Vial: 10
Acq On    : 12 Jan 2012  10:25 am                    Operator: XULIU
Sample    : IC3933-50000                             Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86027.D\FID2B.CH          Vial: 10
Acq On    : 12 Jan 2012  10:39 am                    Operator: XULIU
Sample    : IC3933-50000                             Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 11:00 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 11:00:23 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
10) S	Hexanol	5.42	5.69	376624	461848	10293.541	14949.893	#
	Spiked Amount 5000.000			Recovery	=	205.87%	299.00%	
	Target Compounds							
1)	Methanol	0.97	1.06f	752960	687403	57597.806	88523.105	#
2)	Ethanol	1.26	1.37	1096435	1209159	59199.010	89699.340	#
3)	Tert-Butyl Alcoh	1.76	1.97	1674805	1832609	63642.688	91142.310	#
4)	1-Propanol	2.25	2.37	1399770	1502500	61337.719	74483.152	
5)	2-Propanol	1.53	1.68	1184913	1312440	58677.884	91754.830	#
7)	Isobutanol	3.13	3.30	1653857	1839369	61802.884	88340.824	#
8)	1-Butanol	3.61	3.76	1508342	1656161	59008.634	87971.572	#
9)	2-Butanol	2.71	2.94	1456387	1538779	63033.719	97466.346	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

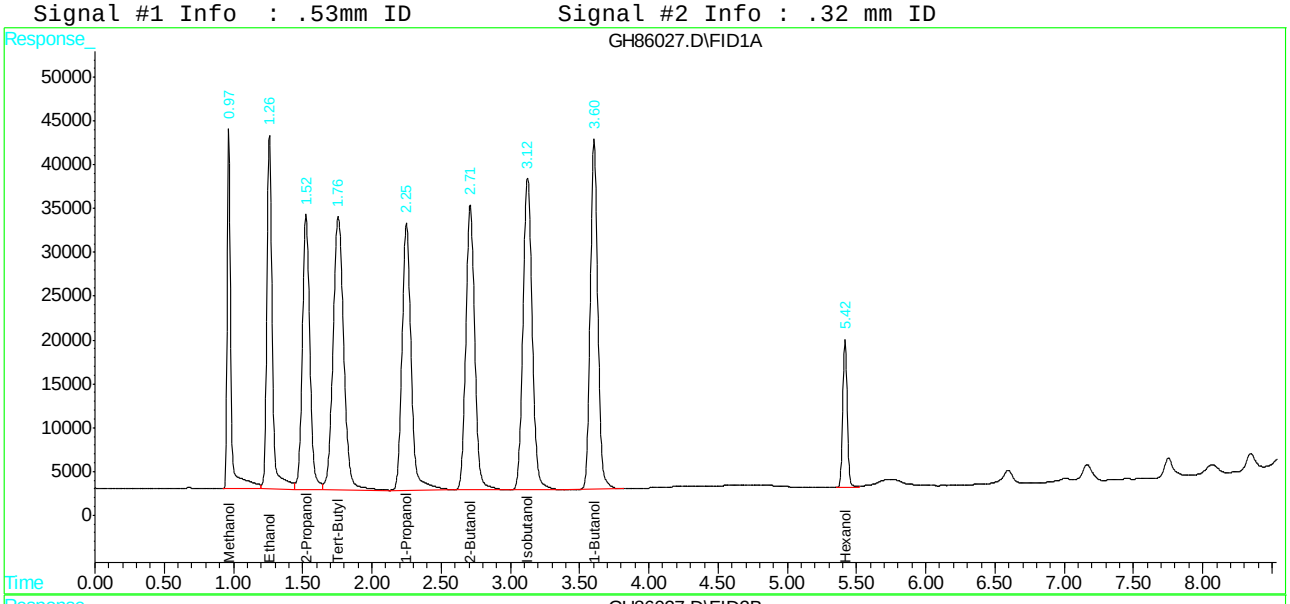
Quantitation Report (QT Reviewed)

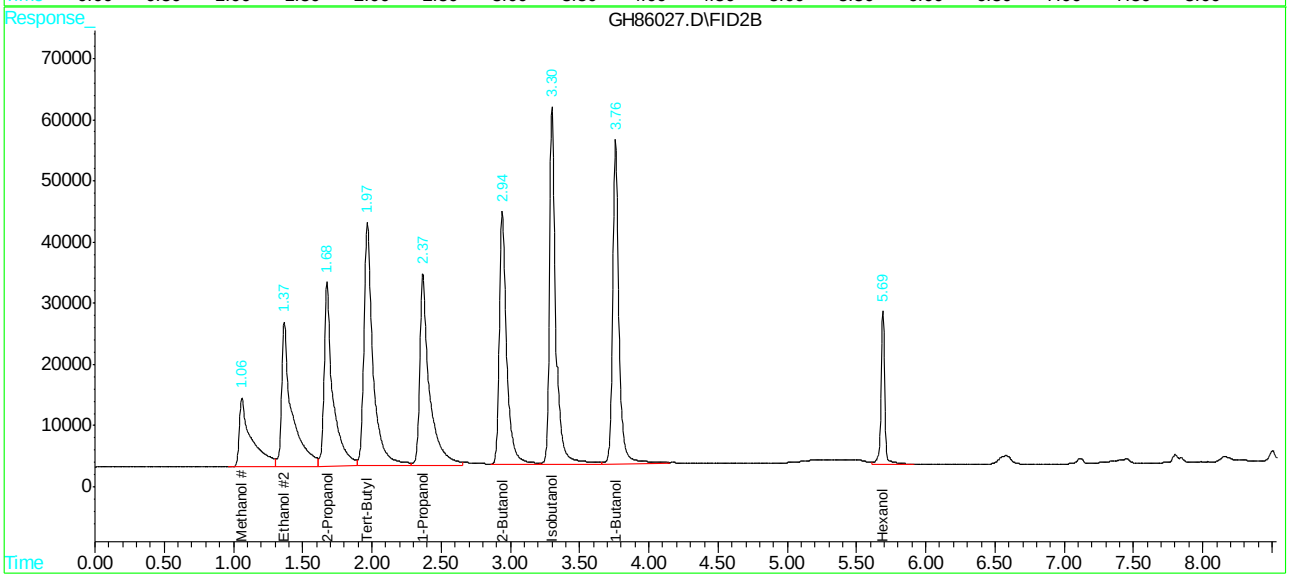
```
Data File : C:\HPCHEM\1\DATA\GH86027.D\FID1A.CH          Vial: 10
Acq On    : 12 Jan 2012  10:25 am                    Operator: XULIU
Sample    : IC3933-50000                             Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86027.D\FID2B.CH          Vial: 10
Acq On    : 12 Jan 2012  10:39 am                    Operator: XULIU
Sample    : IC3933-50000                             Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 11:00 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 11:00:23 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\GH86028.D\FID1A.CH Vial: 11
Acq On : 12 Jan 2012 10:39 am Operator: XULIU
Sample : IC3933-100000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86028.D\FID2B.CH Vial: 11
Acq On : 12 Jan 2012 11:01 am Operator: XULIU
Sample : IC3933-100000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 13 11:02 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Jan 12 11:00:23 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB	
	System Monitoring Compounds							
10) S	Hexanol	5.42	5.70	492071	535042	13448.836	17319.167	
Spiked Amount	5000.000			Recovery	=	268.98%	346.38%	
	Target Compounds							
1)	Methanol	0.97	1.07	1543513	1443165	118071.278	185849.542	#
2)	Ethanol	1.26	1.37	2248379	2388327	121395.040	177173.887	#
3)	Tert-Butyl Alcoh	1.75	1.97	3397608	3650041	129109.282	181529.778	#
4)	1-Propanol	2.25	2.37	2845808	3057131	124702.920	151550.615	
5)	2-Propanol	1.52	1.68	2419383	2590205	119809.908	181085.454	#
7)	Isobutanol	3.12	3.31	3361470	3529954	125614.578	169535.835	
8)	1-Butanol	3.60	3.77	3065943	3328627	119944.360	176809.267	#
9)	2-Butanol	2.71	2.94	2958987	3145511	128067.622	199236.830	#

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH86028.D MGH3933.M Fri Jan 13 11:03:01 2012 GCGH

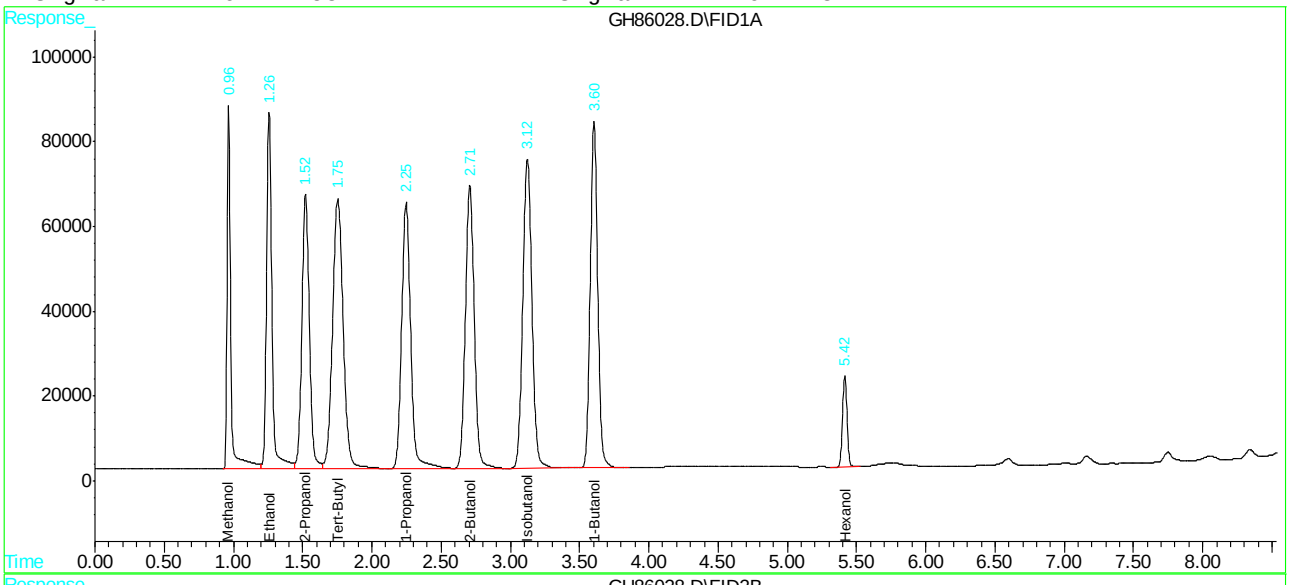
Quantitation Report (QT Reviewed)

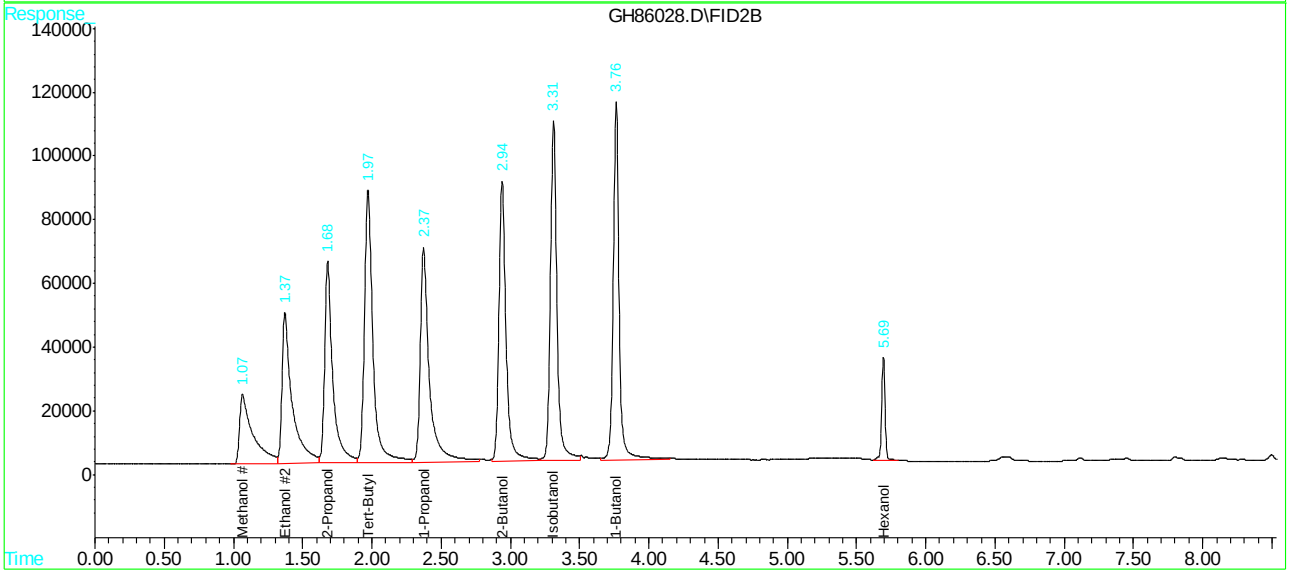
Data File : C:\HPCHEM\1\DATA\GH86028.D\FID1A.CH Vial: 11
Acq On : 12 Jan 2012 10:39 am Operator: XULIU
Sample : IC3933-100000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86028.D\FID2B.CH Vial: 11
Acq On : 12 Jan 2012 11:01 am Operator: XULIU
Sample : IC3933-100000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 13 11:02 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Jan 12 11:00:23 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86029.D\FID1A.CH          Vial: 15
Acq On    : 12 Jan 2012  11:26 am                    Operator: XULIU
Sample    : ICC3933-5000                             Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86029.D\FID2B.CH          Vial: 15
Acq On    : 12 Jan 2012  11:40 am                    Operator: XULIU
Sample    : ICC3933-5000                             Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 11:04 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 12:05:11 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.42	5.69	308461	359974	4859.054	4683.085
	Spiked Amount 5000.000			Recovery	=	97.18%	93.66%
	Target Compounds						
1)	Methanol	0.96	1.07	75096	72770	4784.235	5400.603
2)	Ethanol	1.26	1.37	117465	127405	5101.407	5387.783
3)	Tert-Butyl Alcoh	1.75	1.97	171176	174320	4965.724	4784.905
4)	1-Propanol	2.24	2.37	141748	139501	5003.927	4693.189
5)	2-Propanol	1.52	1.68	125069	143228	5053.734	5395.686
7)	Isobutanol	3.12	3.31	170819	165375	5051.412	4768.831
8)	1-Butanol	3.60	3.76	158874	160969	5131.864	4886.552
9)	2-Butanol	2.71	2.95	150714	148149	5065.738	4942.603

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

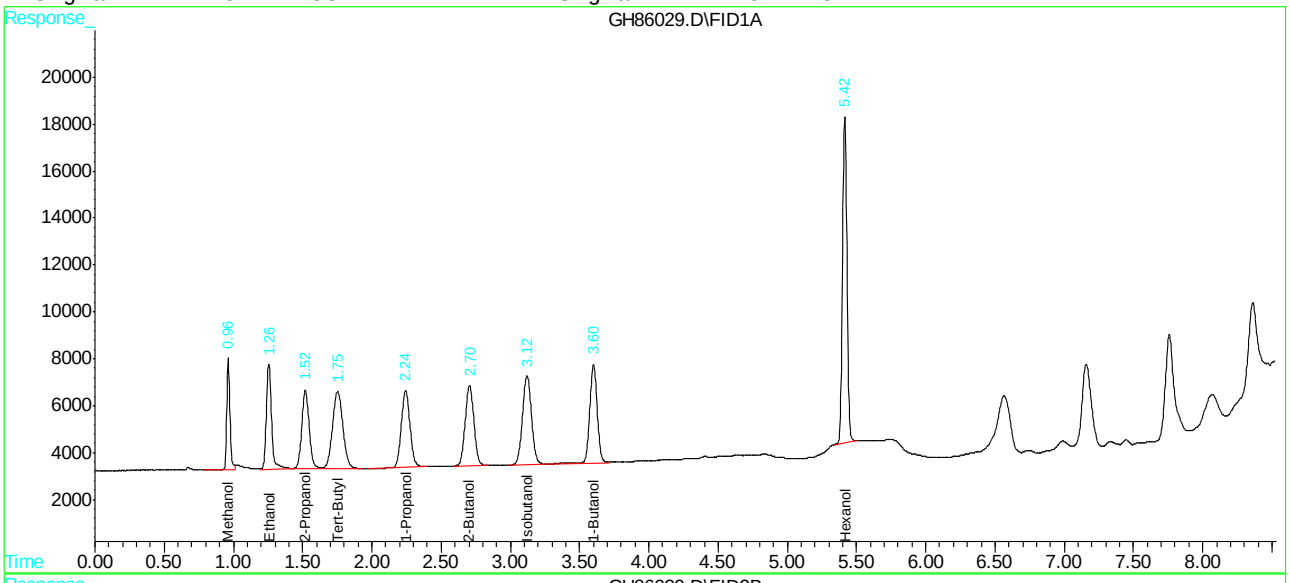
Quantitation Report (QT Reviewed)

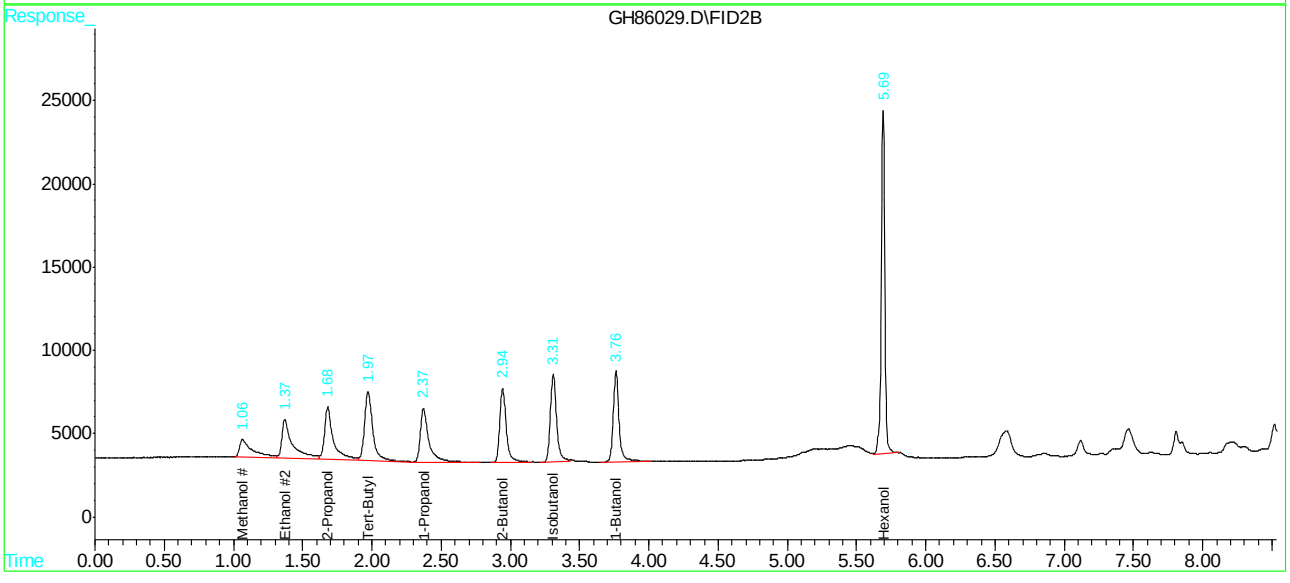
Data File : C:\HPCHEM\1\DATA\GH86029.D\FID1A.CH Vial: 15
Acq On : 12 Jan 2012 11:26 am Operator: XULIU
Sample : ICC3933-5000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86029.D\FID2B.CH Vial: 15
Acq On : 12 Jan 2012 11:40 am Operator: XULIU
Sample : ICC3933-5000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 13 11:04 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Jan 12 12:05:11 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\GH86030.D\FID1A.CH Vial: 1
Acq On : 12 Jan 2012 12:13 pm Operator: XULIU
Sample : IC3933-1000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86030.D\FID2B.CH Vial: 1
Acq On : 12 Jan 2012 12:25 pm Operator: XULIU
Sample : IC3933-1000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 13 11:05 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Jan 12 12:48:23 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.42	5.69	247734	298550	3987.924	4107.976
	Spiked Amount 5000.000			Recovery	=	79.76%	82.16%
	Target Compounds						
1)	Methanol	0.96	1.07	15749	13055	1002.649	1043.209
2)	Ethanol	1.26	1.37	20935	21256	925.995	994.789
3)	Tert-Butyl Alcoh	1.75	1.97	33108	40588	968.101	1168.806
4)	1-Propanol	2.25	2.37	28391	27338	1001.789	971.118
5)	2-Propanol	1.52	1.68	22964	27653	941.506	1114.555
7)	Isobutanol	3.12	3.30	33589	33980	994.624	985.295
8)	1-Butanol	3.60	3.76	29206	32334	954.810	985.192
9)	2-Butanol	2.71	2.94	29998	28145	1006.609	954.603

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH86030.D MGH3933.M Fri Jan 13 11:05:57 2012 GCGH

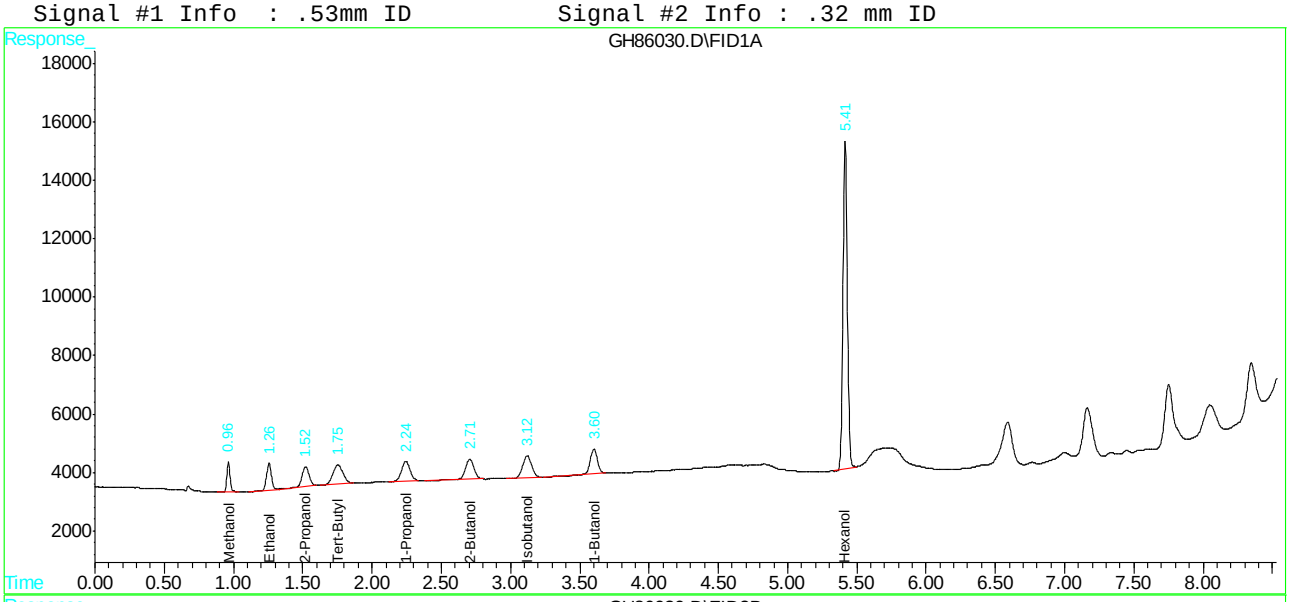
Quantitation Report (QT Reviewed)

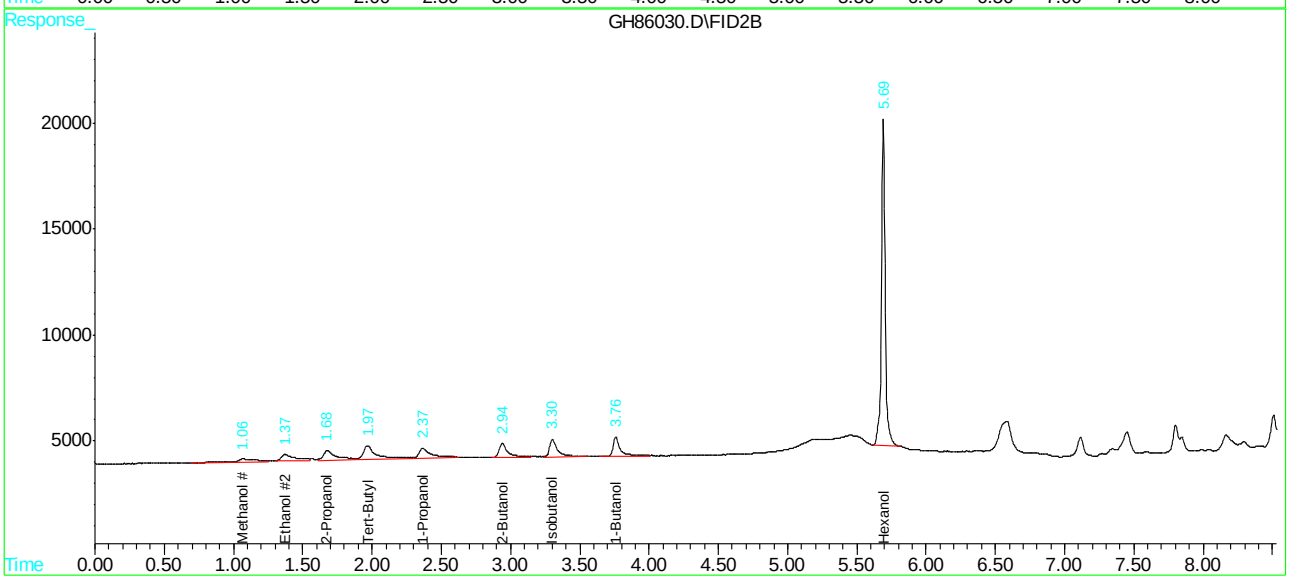
Data File : C:\HPCHEM\1\DATA\GH86030.D\FID1A.CH Vial: 1
Acq On : 12 Jan 2012 12:13 pm Operator: XULIU
Sample : IC3933-1000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86030.D\FID2B.CH Vial: 1
Acq On : 12 Jan 2012 12:25 pm Operator: XULIU
Sample : IC3933-1000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 13 11:05 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Jan 12 12:48:23 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86031.D\FID1A.CH          Vial: 16
Acq On    : 12 Jan 2012  12:48 pm                    Operator: XULIU
Sample    : IC3933-10000                             Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86031.D\FID2B.CH          Vial: 16
Acq On    : 12 Jan 2012   1:04 pm                    Operator: XULIU
Sample    : IC3933-10000                             Inst    : GCGH
Misc      : GC38074,GGH3934,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 11:06 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Jan 12 11:47:18 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.41	5.69	294999	344920	4679.523	4658.600
	Spiked Amount 5000.000			Recovery	=	93.59%	93.17%
	Target Compounds						
1)	Methanol	0.96	1.06f	159813	150554	10155.829	12082.546
2)	Ethanol	1.26	1.37	231065	243157	10475.867	11347.284
3)	Tert-Butyl Alcoh	1.75	1.96	344200	369392	10102.714	10808.746
4)	1-Propanol	2.24	2.36	292668	277655	10181.240	10077.721
5)	2-Propanol	1.52	1.67	249662	270994	10163.014	11529.529
7)	Isobutanol	3.12	3.31	357244	334752	10571.128	9595.904
8)	1-Butanol	3.60	3.75f	339835	331326	11021.759	9986.942
9)	2-Butanol	2.70	2.94	308791	296974	10062.632	9883.433

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

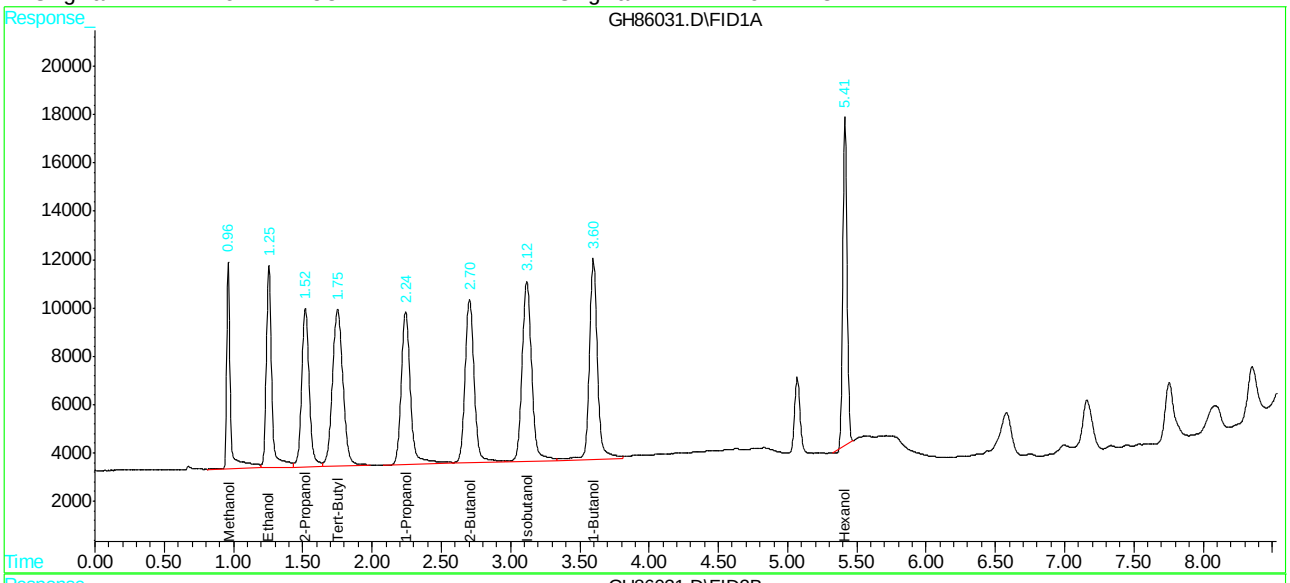
Quantitation Report (QT Reviewed)

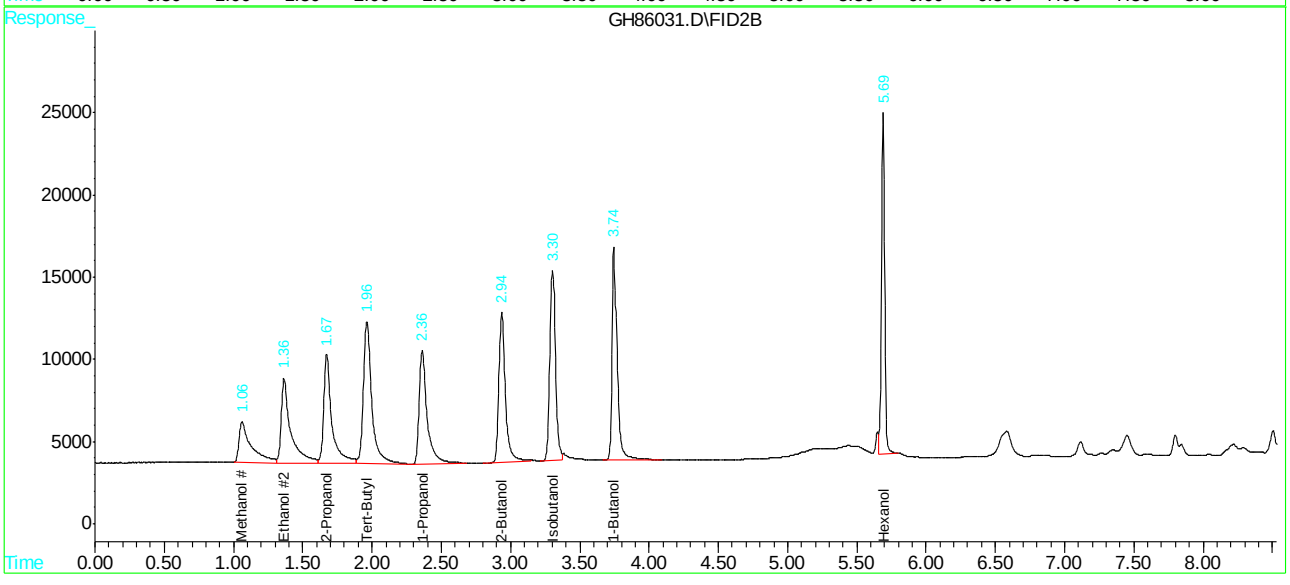
Data File : C:\HPCHEM\1\DATA\GH86031.D\FID1A.CH Vial: 16
Acq On : 12 Jan 2012 12:48 pm Operator: XULIU
Sample : IC3933-10000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86031.D\FID2B.CH Vial: 16
Acq On : 12 Jan 2012 1:04 pm Operator: XULIU
Sample : IC3933-10000 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 13 11:06 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Jan 12 11:47:18 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\GH86032.D\FID1A.CH Vial: 20
Acq On : 12 Jan 2012 1:04 pm Operator: XULIU
Sample : IC3933-500 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86032.D\FID2B.CH Vial: 20
Acq On : 12 Jan 2012 1:19 pm Operator: XULIU
Sample : IC3933-500 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 13 11:06 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Jan 12 13:11:45 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.41	5.69	126426	168085	2059.691	2337.953
	Spiked Amount 5000.000			Recovery	=	41.19%	46.76%
	Target Compounds						
1)	Methanol	0.96	1.07	9485	5208	613.995	367.542 #
2)	Ethanol	1.25	1.37	11535	10191	515.205	427.752
3)	Tert-Butyl Alcoh	1.75	1.97	20045	17349	592.227	467.509
4)	1-Propanol	2.24	2.37	13631	13025	478.424	453.437
5)	2-Propanol	1.52	1.68	12522	11936	518.158	440.267
7)	Isobutanol	3.12	3.31	20149	17000	592.042	492.406
8)	1-Butanol	3.60	3.76	16189	17003	519.573	518.167
9)	2-Butanol	2.70	2.94	15622	16000	521.660	534.384

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH86032.D MGH3933.M Fri Jan 13 11:06:57 2012 GCGH

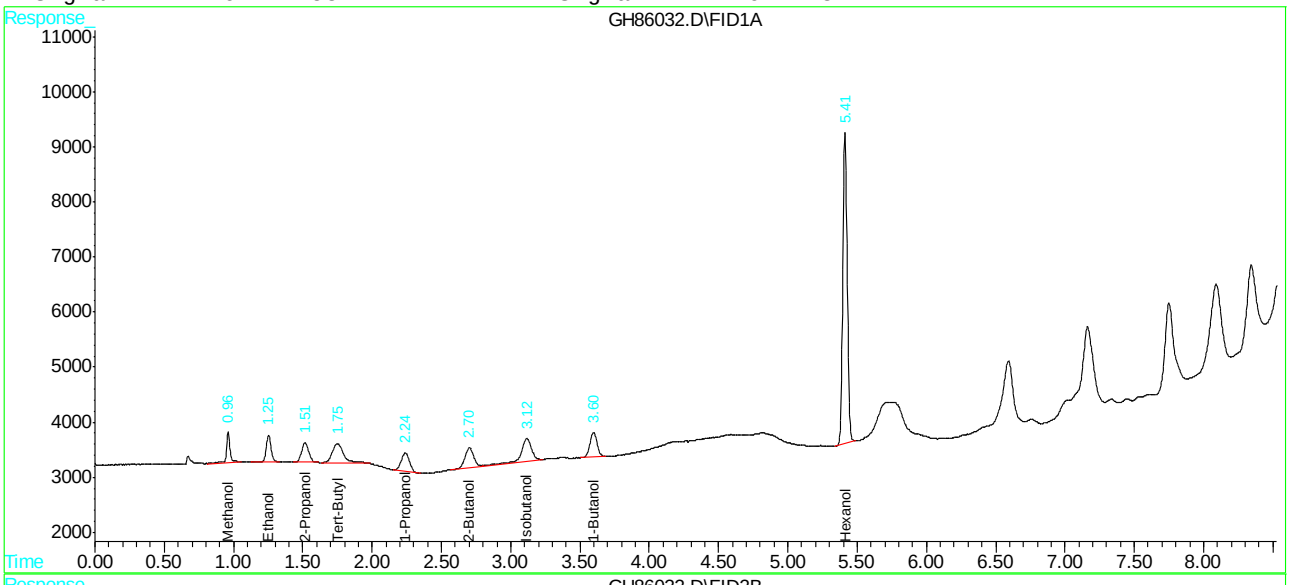
Quantitation Report (QT Reviewed)

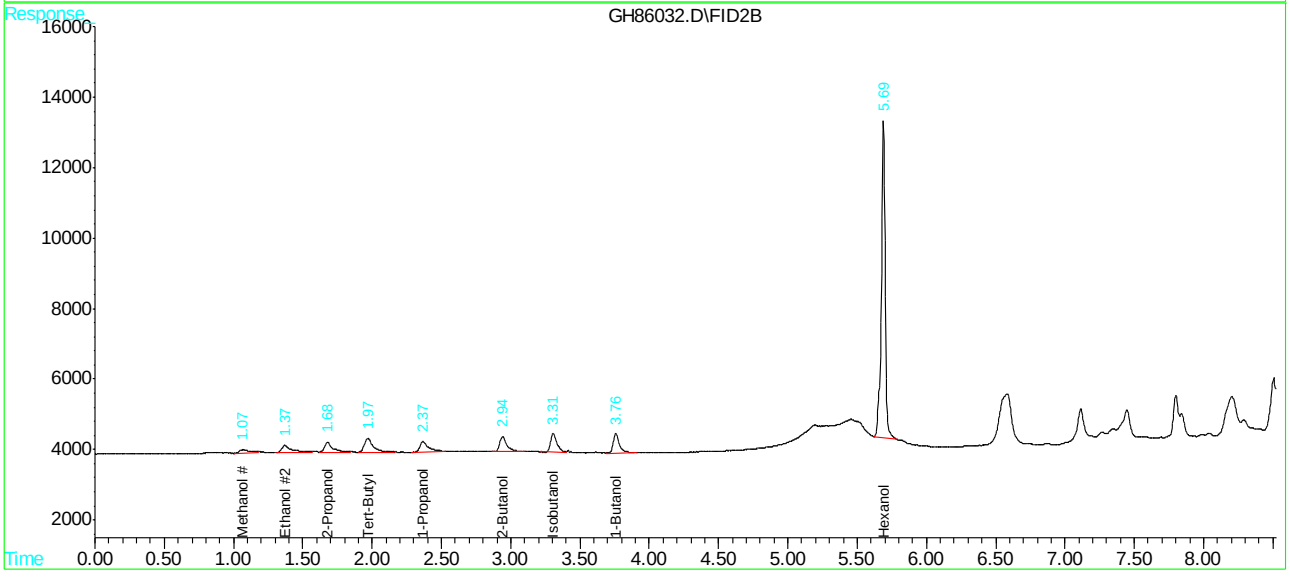
Data File : C:\HPCHEM\1\DATA\GH86032.D\FID1A.CH Vial: 20
Acq On : 12 Jan 2012 1:04 pm Operator: XULIU
Sample : IC3933-500 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86032.D\FID2B.CH Vial: 20
Acq On : 12 Jan 2012 1:19 pm Operator: XULIU
Sample : IC3933-500 Inst : GCGH
Misc : GC38074,GGH3934,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 13 11:06 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Thu Jan 12 13:11:45 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86107.D\FID1A.CH          Vial: 1
Acq On    : 17 Jan 2012  11:33 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86107.D\FID2B.CH          Vial: 1
Acq On    : 17 Jan 2012  11:48 am                    Operator: XULIU
Sample    : IC3933-100                               Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 17 14:01 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:40:34 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
-----------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.43   5.69    115180   175131 1867.185  2369.226
  Spiked Amount   5000.000                  Recovery     =   37.34%    47.38%

Target Compounds
 6)     Propionitrile     2.62   2.38      6276     5452  102.598    88.799
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH86107.D MGH3933.M Tue Jan 17 14:01:45 2012 GCGH

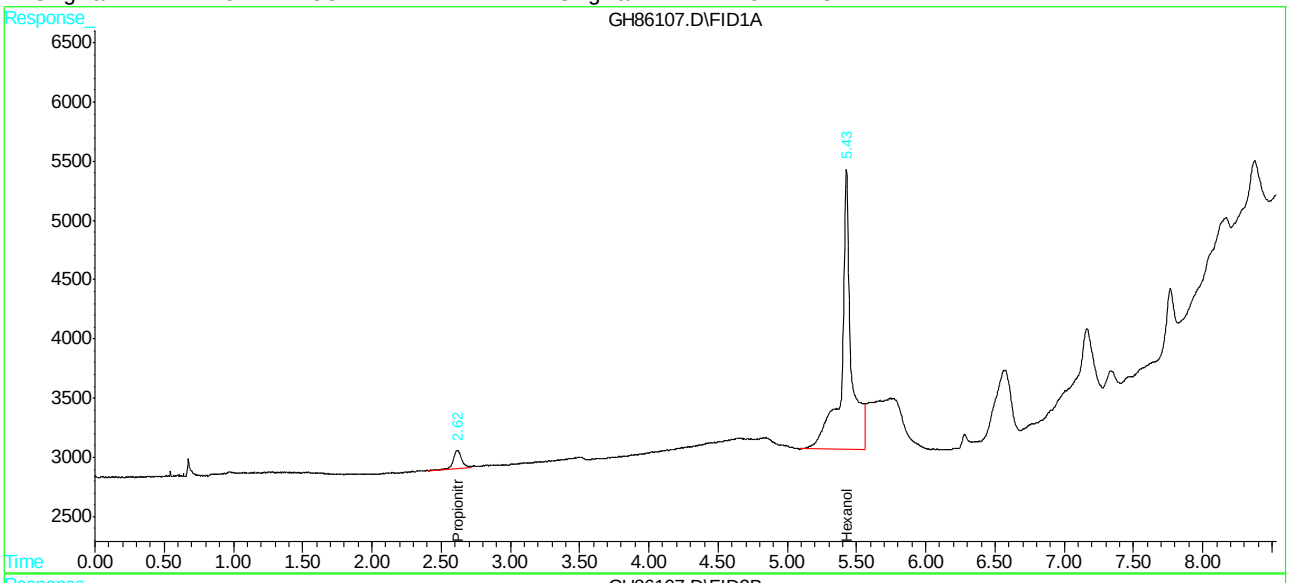
Quantitation Report (QT Reviewed)

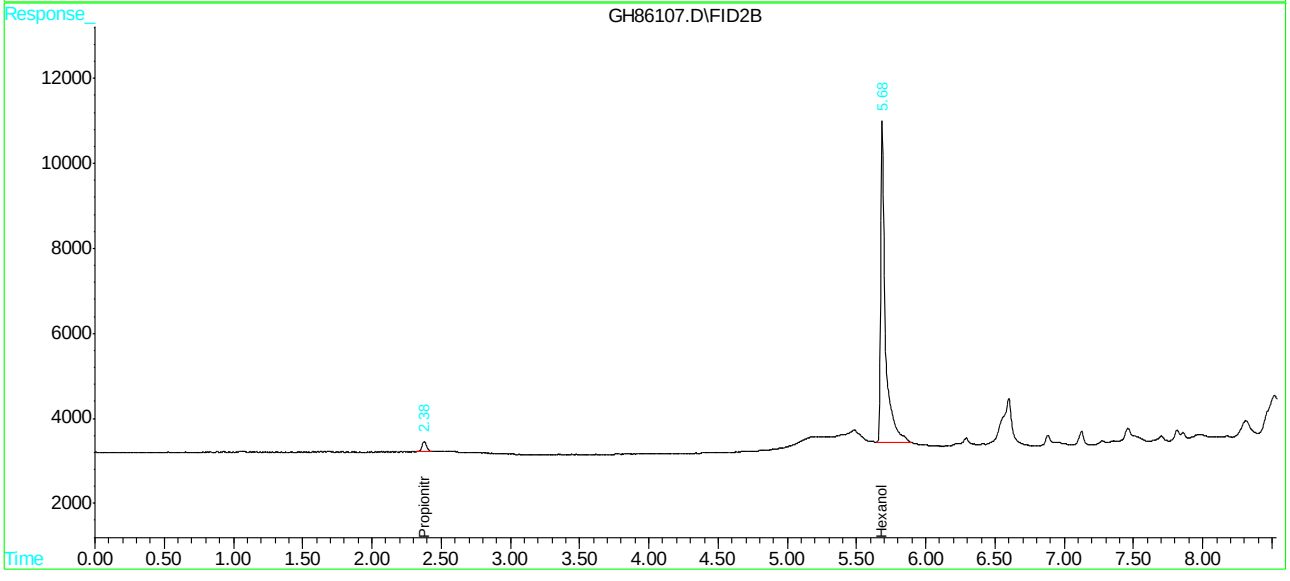
Data File : C:\HPCHEM\1\DATA\GH86107.D\FID1A.CH Vial: 1
Acq On : 17 Jan 2012 11:33 am Operator: XULIU
Sample : IC3933-100 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86107.D\FID2B.CH Vial: 1
Acq On : 17 Jan 2012 11:48 am Operator: XULIU
Sample : IC3933-100 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 17 14:01 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:40:34 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86108.D\FID1A.CH          Vial: 2
Acq On    : 17 Jan 2012  11:48 am                    Operator: XULIU
Sample    : IC3933-500                               Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86108.D\FID2B.CH          Vial: 2
Acq On    : 17 Jan 2012  12:02 pm                    Operator: XULIU
Sample    : IC3933-500                               Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 17 14:02 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:40:34 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.43   5.69    144572   276739 2343.660  3743.817 #
  Spiked Amount   5000.000                  Recovery     =   46.87%    74.88%

Target Compounds
 6)     Propionitrile     2.62   2.38     32949    34309  538.655   558.816
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH86108.D MGH3933.M Tue Jan 17 14:02:09 2012 GCGH

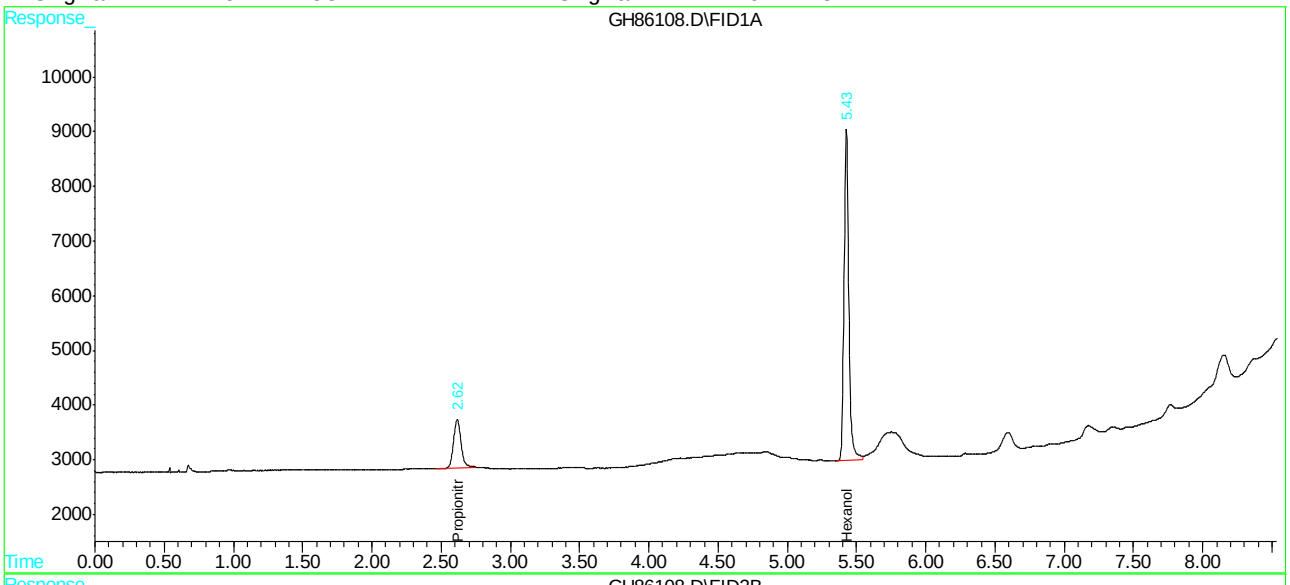
Quantitation Report (QT Reviewed)

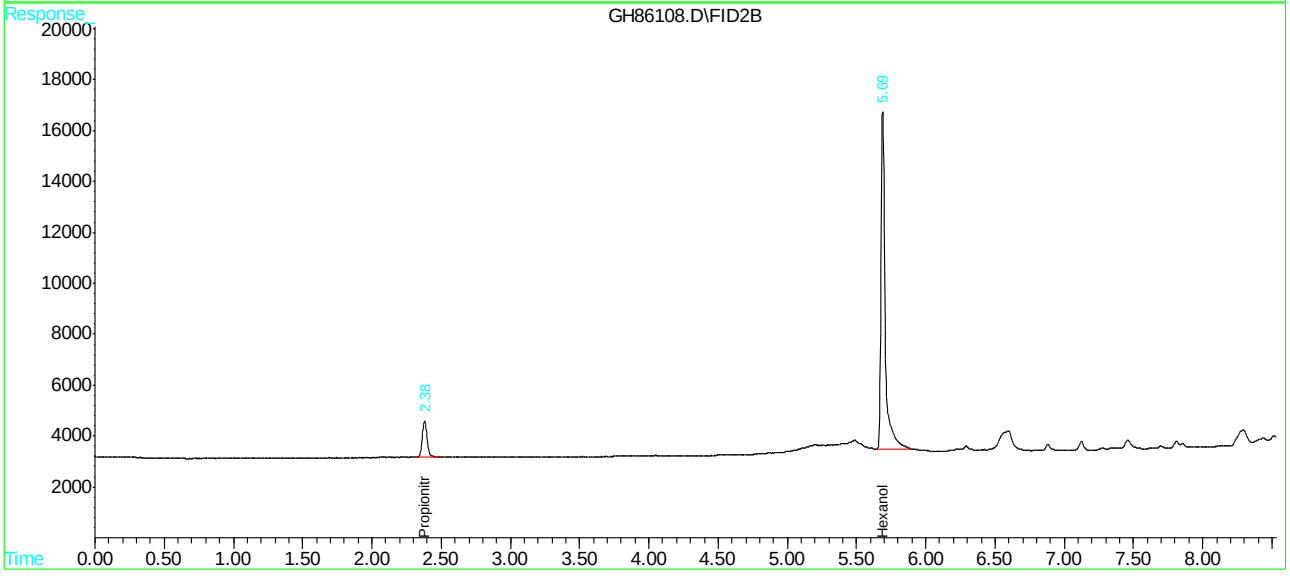
Data File : C:\HPCHEM\1\DATA\GH86108.D\FID1A.CH Vial: 2
Acq On : 17 Jan 2012 11:48 am Operator: XULIU
Sample : IC3933-500 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86108.D\FID2B.CH Vial: 2
Acq On : 17 Jan 2012 12:02 pm Operator: XULIU
Sample : IC3933-500 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 17 14:02 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:40:34 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86109.D\FID1A.CH          Vial: 3
Acq On    : 17 Jan 2012  12:02 pm                    Operator: XULIU
Sample    : IC3933-1000                              Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86109.D\FID2B.CH          Vial: 3
Acq On    : 17 Jan 2012  12:24 pm                    Operator: XULIU
Sample    : IC3933-1000                              Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 17 14:04 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:40:34 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
-----------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.43   5.69    282275   435130 4575.972  5886.585
  Spiked Amount   5000.000                  Recovery     =   91.52%   117.73%

Target Compounds
 6)     Propionitrile     2.62   2.38     59199    60262  967.788   981.533
```

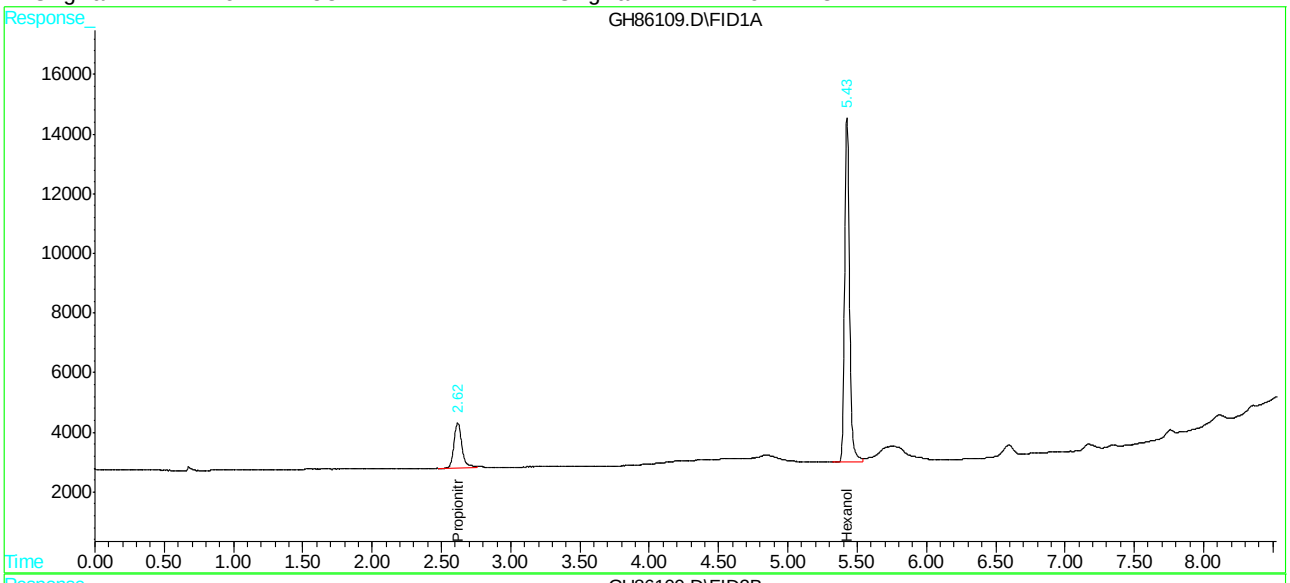
Quantitation Report (QT Reviewed)

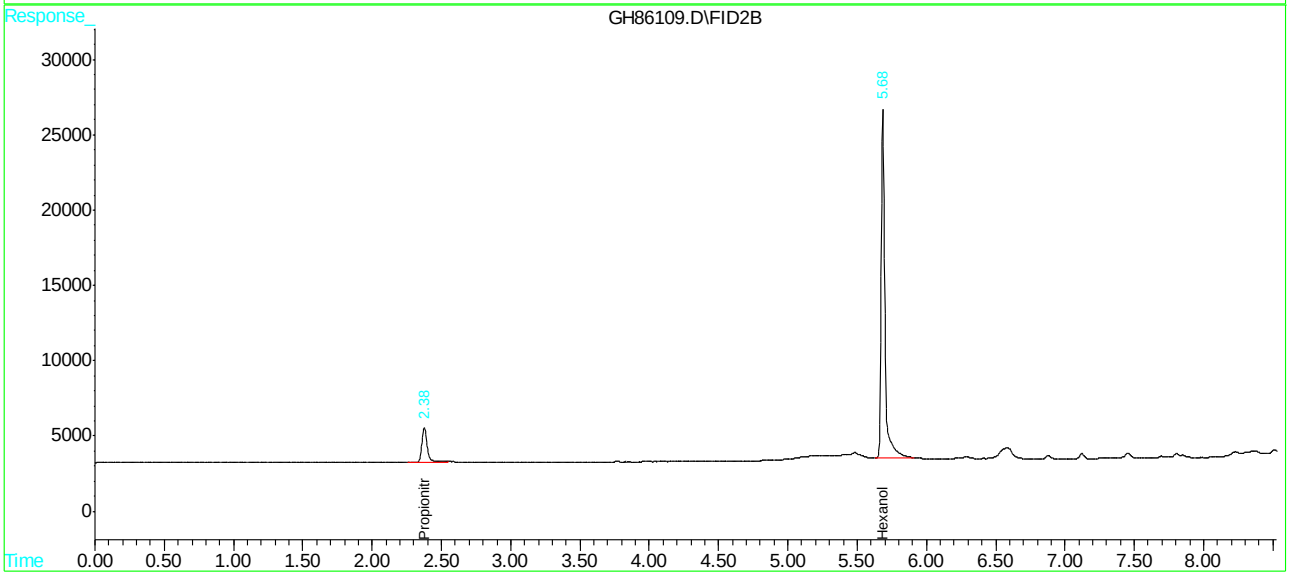
Data File : C:\HPCHEM\1\DATA\GH86109.D\FID1A.CH Vial: 3
Acq On : 17 Jan 2012 12:02 pm Operator: XULIU
Sample : IC3933-1000 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86109.D\FID2B.CH Vial: 3
Acq On : 17 Jan 2012 12:24 pm Operator: XULIU
Sample : IC3933-1000 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 17 14:04 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:40:34 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86110.D\FID1A.CH          Vial: 4
Acq On    : 17 Jan 2012  12:24 pm                    Operator: XULIU
Sample    : ICC3933-5000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86110.D\FID2B.CH          Vial: 4
Acq On    : 17 Jan 2012  12:38 pm                    Operator: XULIU
Sample    : ICC3933-5000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 17 14:05 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:40:34 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
-------------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.43   5.69    373587   537537 6056.237  7271.980
  Spiked Amount   5000.000                  Recovery     =  121.12%   145.44%

Target Compounds
 6)     Propionitrile     2.62   2.38    305846   306981 5000.006  4999.997
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH86110.D MGH3933.M Tue Jan 17 14:05:19 2012 GCGH

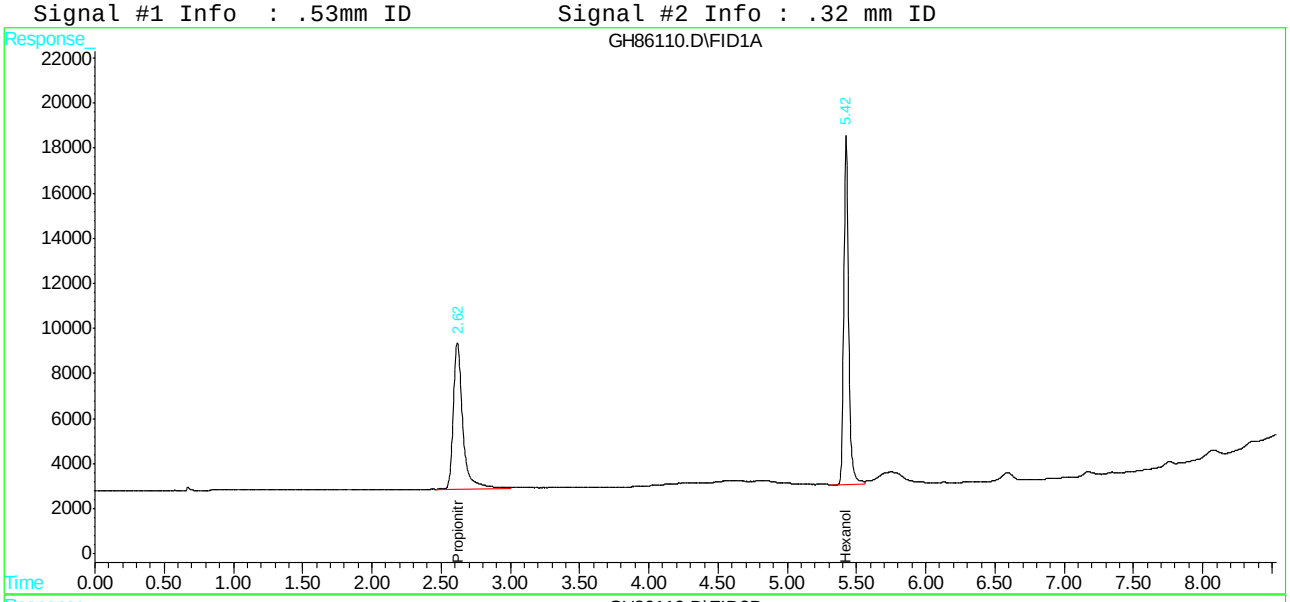
Quantitation Report (QT Reviewed)

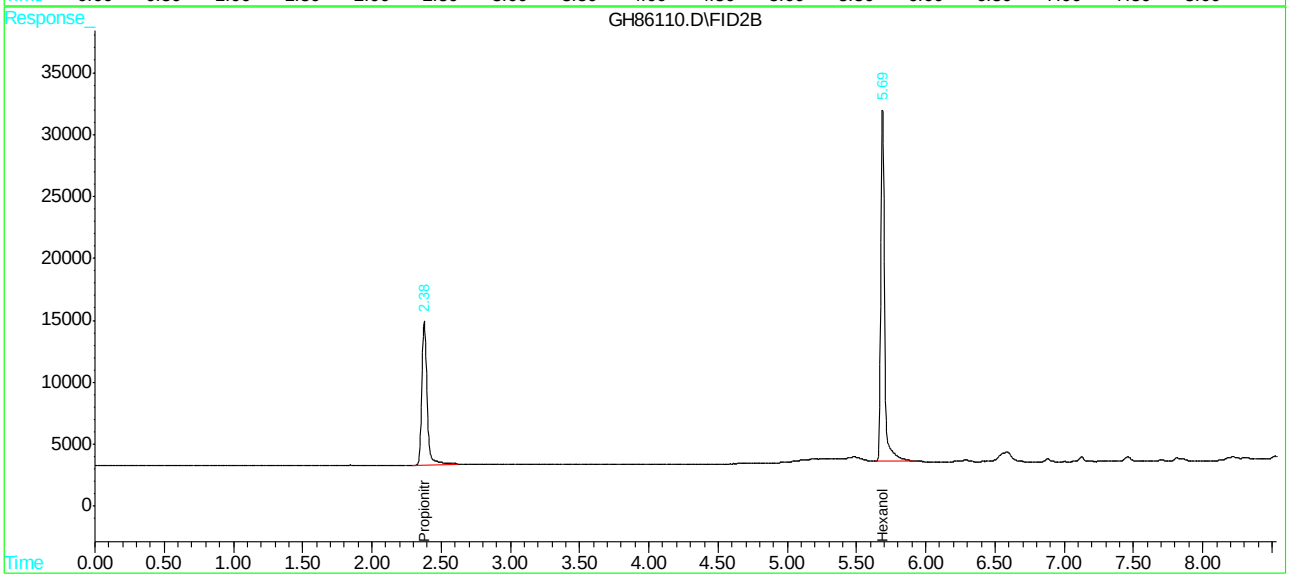
Data File : C:\HPCHEM\1\DATA\GH86110.D\FID1A.CH Vial: 4
Acq On : 17 Jan 2012 12:24 pm Operator: XULIU
Sample : ICC3933-5000 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86110.D\FID2B.CH Vial: 4
Acq On : 17 Jan 2012 12:38 pm Operator: XULIU
Sample : ICC3933-5000 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 17 14:05 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:40:34 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86111.D\FID1A.CH          Vial: 5
Acq On    : 17 Jan 2012  12:38 pm                    Operator: XULIU
Sample    : IC3933-10000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86111.D\FID2B.CH          Vial: 5
Acq On    : 17 Jan 2012  12:53 pm                    Operator: XULIU
Sample    : IC3933-10000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 17 14:05 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:40:34 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
-----------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.43   5.69    363150   521700 5887.035  7057.731
  Spiked Amount   5000.000                  Recovery     =  117.74%   141.15%

Target Compounds
 6)     Propionitrile     2.62   2.38    672030   663714 10986.404  10810.345
```

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH86111.D MGH3933.M Tue Jan 17 14:06:03 2012 GCGH

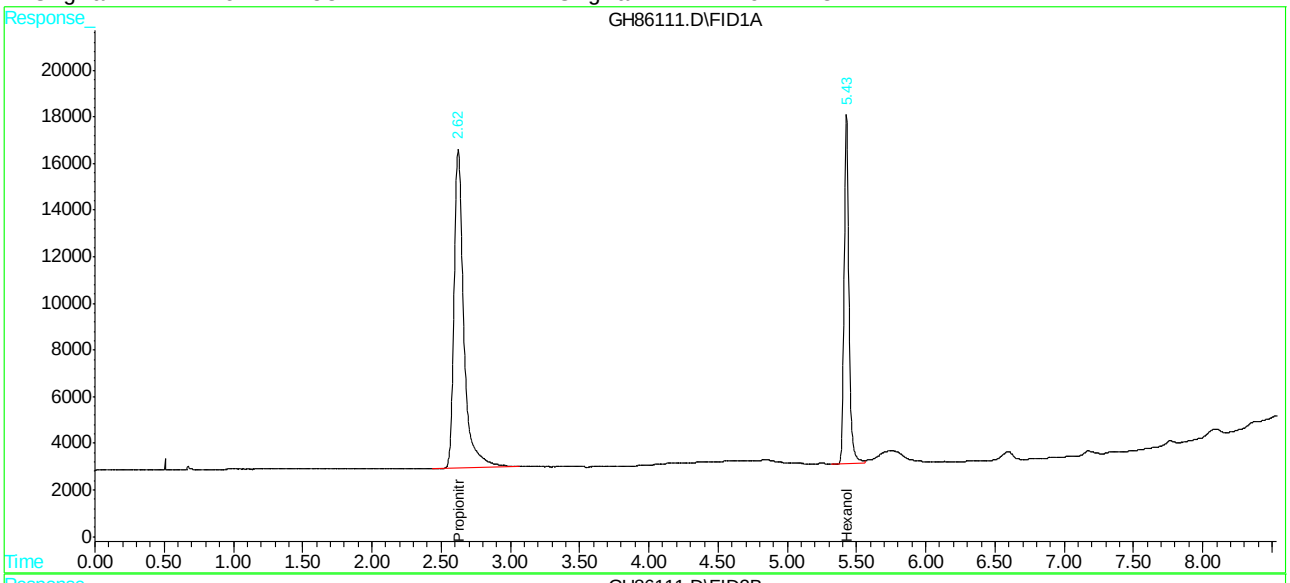
Quantitation Report (QT Reviewed)

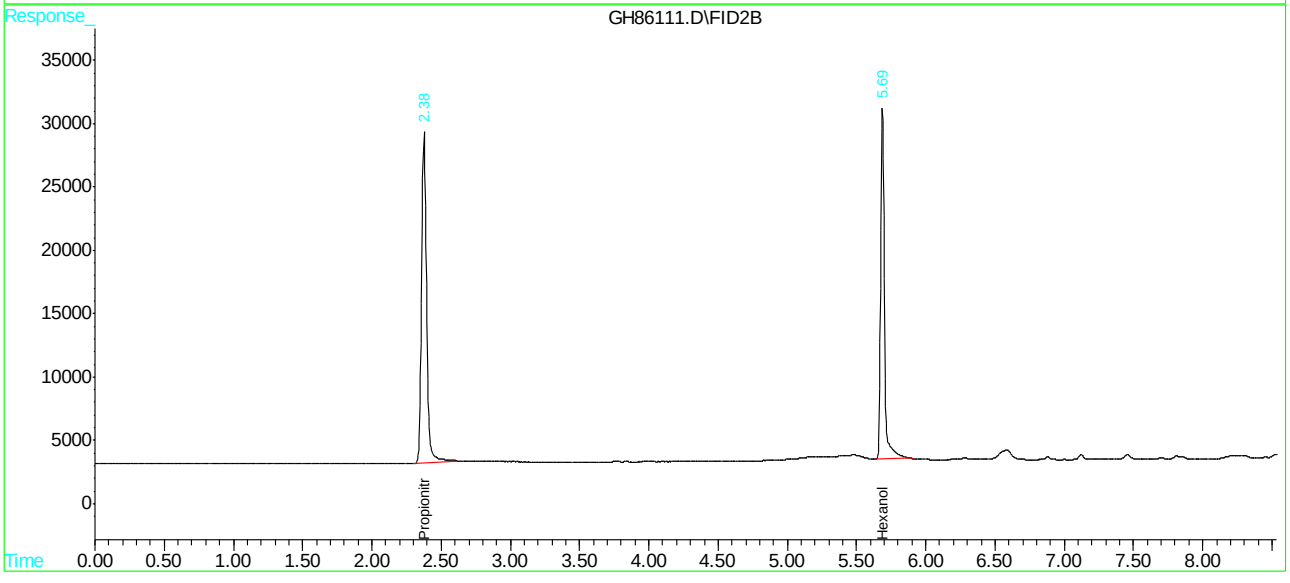
Data File : C:\HPCHEM\1\DATA\GH86111.D\FID1A.CH Vial: 5
Acq On : 17 Jan 2012 12:38 pm Operator: XULIU
Sample : IC3933-10000 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86111.D\FID2B.CH Vial: 5
Acq On : 17 Jan 2012 12:53 pm Operator: XULIU
Sample : IC3933-10000 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 17 14:05 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:40:34 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86112.D\FID1A.CH          Vial: 6
Acq On    : 17 Jan 2012  12:53 pm                    Operator: XULIU
Sample    : IC3933-50000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86112.D\FID2B.CH          Vial: 6
Acq On    : 17 Jan 2012   1:07 pm                    Operator: XULIU
Sample    : IC3933-50000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 17 14:06 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:40:34 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.43	5.69	430802	597589	6983.750	8084.385
Spiked Amount	5000.000			Recovery	=	139.67%	161.69%
	Target Compounds						
6)	Propionitrile	2.62	2.38	2528964	2526912	41343.751	41157.466

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH86112.D MGH3933.M Tue Jan 17 14:06:31 2012 GCGH

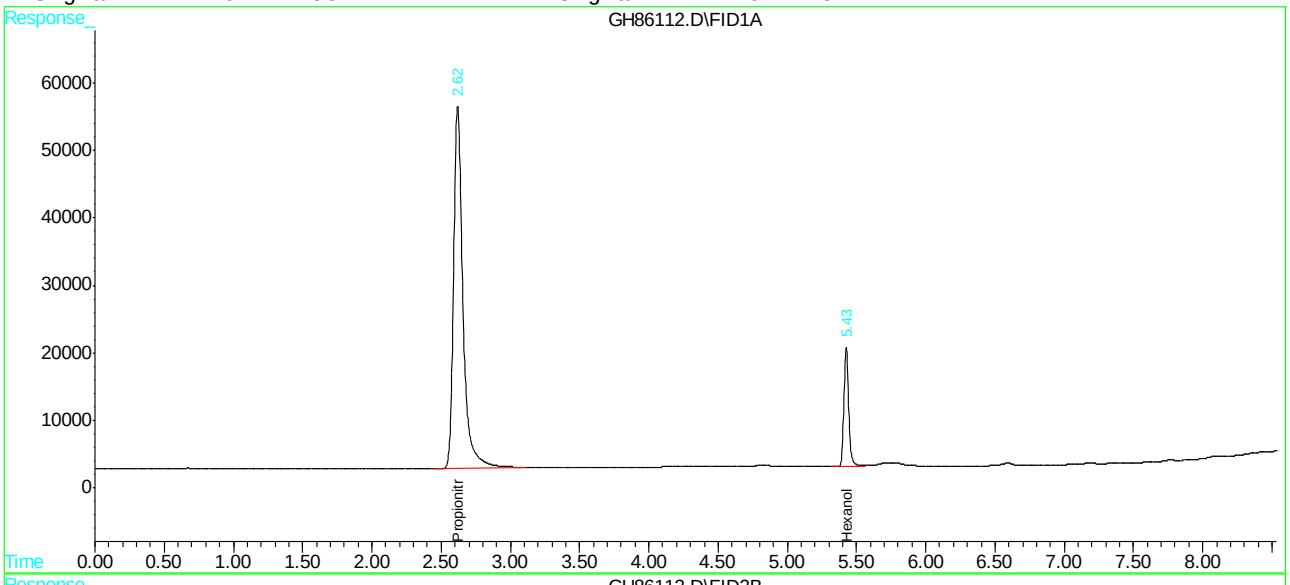
Quantitation Report (QT Reviewed)

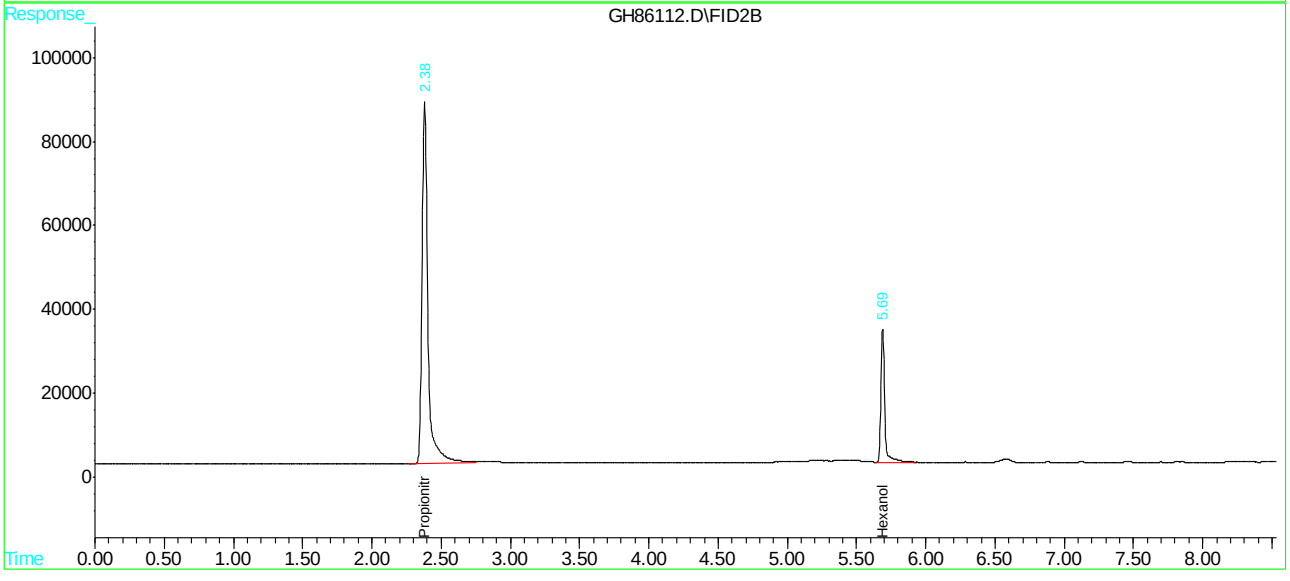
Data File : C:\HPCHEM\1\DATA\GH86112.D\FID1A.CH Vial: 6
Acq On : 17 Jan 2012 12:53 pm Operator: XULIU
Sample : IC3933-50000 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86112.D\FID2B.CH Vial: 6
Acq On : 17 Jan 2012 1:07 pm Operator: XULIU
Sample : IC3933-50000 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 17 14:06 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:40:34 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86113.D\FID1A.CH          Vial: 7
Acq On    : 17 Jan 2012   1:07 pm                    Operator: XULIU
Sample    : IC3933-100000                            Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86113.D\FID2B.CH          Vial: 7
Acq On    : 17 Jan 2012   1:21 pm                    Operator: XULIU
Sample    : IC3933-100000                            Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 17 14:06 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:40:34 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
10) S Hexanol	5.43	5.69	543200	754887	8805.838	10212.365
Spiked Amount 5000.000			Recovery	=	176.12%	204.25%
Target Compounds						
6) Propionitrile	2.63	2.38	5942615	6155874	97150.452	100264.732

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

GH86113.D MGH3933.M Tue Jan 17 14:06:54 2012 GCGH

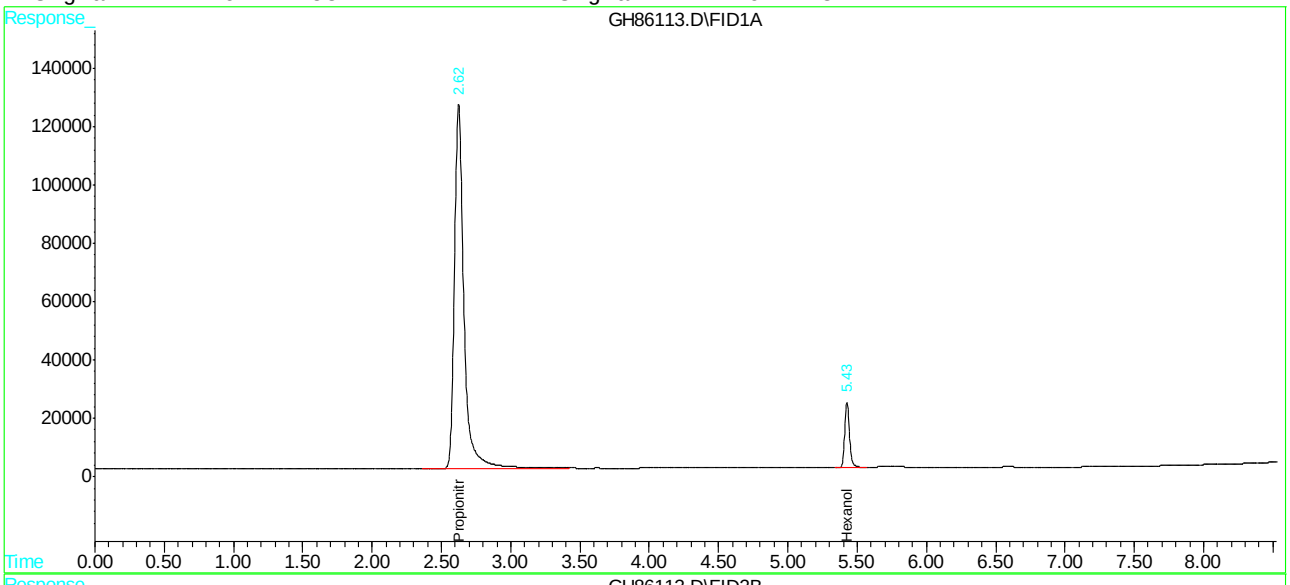
Quantitation Report (QT Reviewed)

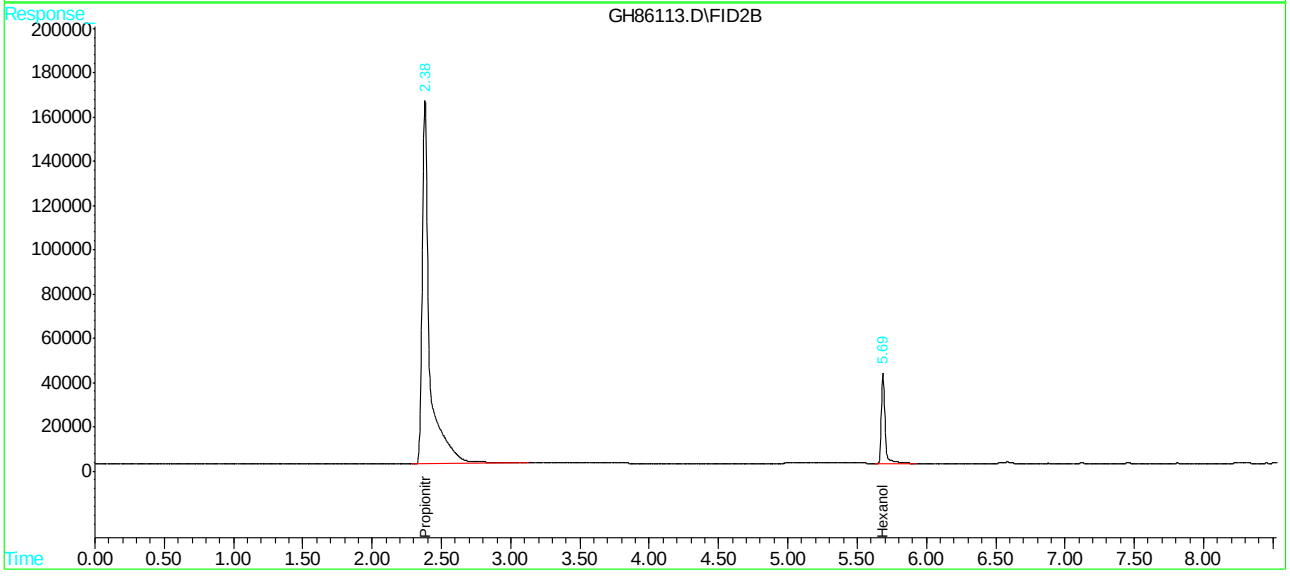
Data File : C:\HPCHEM\1\DATA\GH86113.D\FID1A.CH Vial: 7
Acq On : 17 Jan 2012 1:07 pm Operator: XULIU
Sample : IC3933-100000 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86113.D\FID2B.CH Vial: 7
Acq On : 17 Jan 2012 1:21 pm Operator: XULIU
Sample : IC3933-100000 Inst : GCGH
Misc : GC38067,GGH3942,5,,,,1 Multiplr: 1.00
IntFile : AUTOINT3.E
Quant Time: Jan 17 14:06 2012 Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title : METHOD SW846-8015B (DAI)
Last Update : Tue Jan 17 13:40:34 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj. : 2ul
Signal #1 Phase : ZB-624 Signal #2 Phase: RTX-1
Signal #1 Info : .53mm ID Signal #2 Info : .32 mm ID





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86037.D\FID1A.CH          Vial: 90
Acq On    : 12 Jan 2012   4:01 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38128,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86037.D\FID2B.CH          Vial: 90
Acq On    : 12 Jan 2012   4:15 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38128,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 12:54 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Jan 13 12:25:38 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.42	5.69	339524	399645	5504.038	5406.533
	Spiked Amount 5000.000			Recovery	=	110.08%	108.13%
	Target Compounds						
1)	Methanol	0.96	1.07	82272	60375	5234.500	4443.799
2)	Ethanol	1.26	1.38	115177	114029	5071.523	4930.944
3)	Tert-Butyl Alcoh	1.75	1.97	167885	181650	4835.596	4996.508
4)	1-Propanol	2.24	2.37	142199	147660	4934.286	5294.602
5)	2-Propanol	1.52	1.68	122716	129492	4778.186	4873.001
7)	Isobutanol	3.12	3.31	168696	163929	4812.284	4766.081
8)	1-Butanol	3.60	3.76	153595	156510	4851.655	4773.094
9)	2-Butanol	2.71	2.94	149240	146029	4926.387	5019.837

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

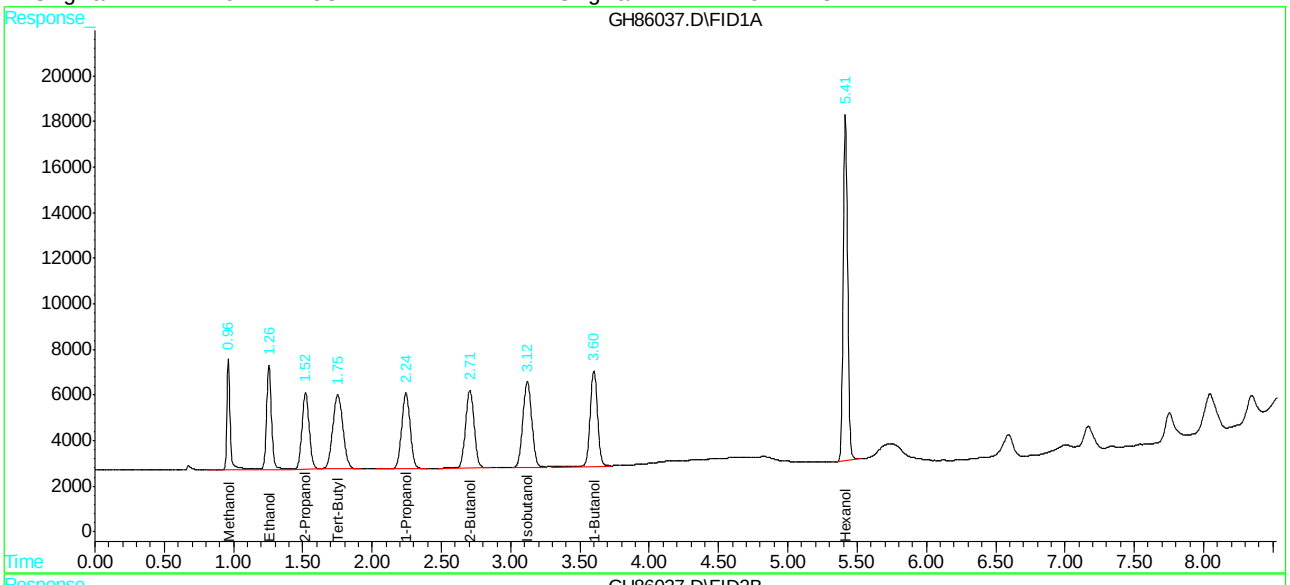
Quantitation Report (QT Reviewed)

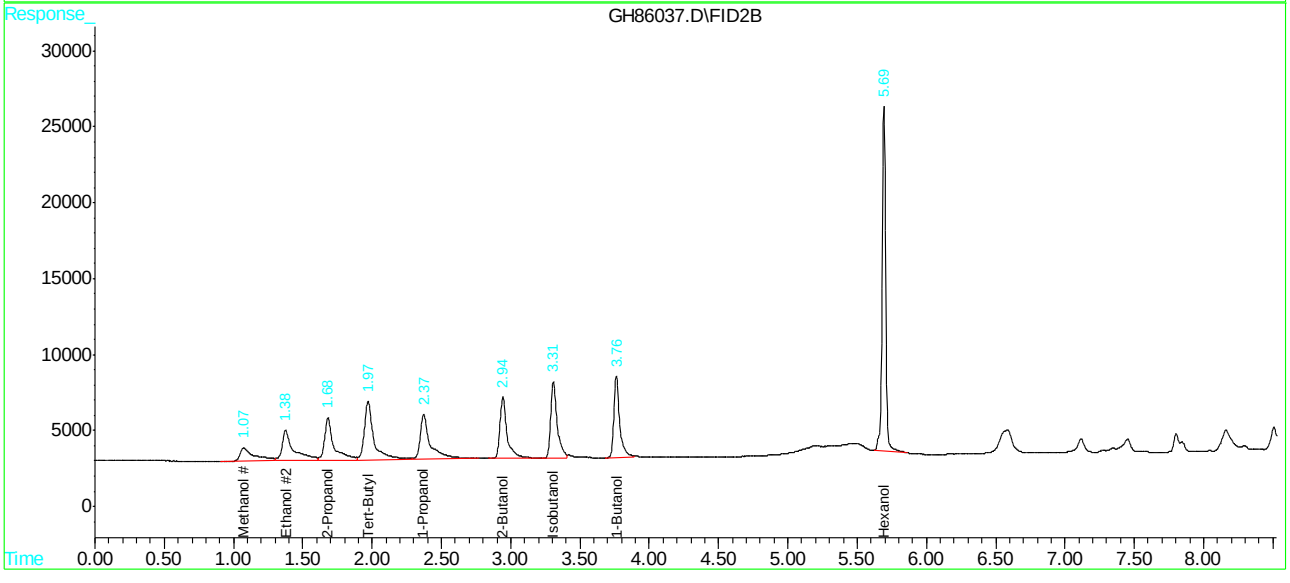
```
Data File : C:\HPCHEM\1\DATA\GH86037.D\FID1A.CH          Vial: 90
Acq On    : 12 Jan 2012   4:01 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38128,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86037.D\FID2B.CH          Vial: 90
Acq On    : 12 Jan 2012   4:15 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38128,GGH3933,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 13 12:54 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Fri Jan 13 12:25:38 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86114.D\FID1A.CH          Vial: 95
Acq On    : 17 Jan 2012   4:02 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86114.D\FID2B.CH          Vial: 95
Acq On    : 17 Jan 2012   4:17 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 18  8:49 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID

 Compound          RT#1   RT#2    Resp#1   Resp#2     PPB       PPB
---------------------------------------------------------------------

System Monitoring Compounds
10) S   Hexanol           5.43   5.69    296766   415112 4810.885  5615.778
  Spiked Amount   5000.000                  Recovery     =   96.22%   112.32%

Target Compounds
 6)     Propionitrile     2.62   2.37    276709   277358 4544.354  4586.975
```

```
---------------------------------------------------------------------------
(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40%  (m)=manual int.
GH86114.D  MGH3933.M      Wed Jan 18 08:50:03 2012      GCGH
```

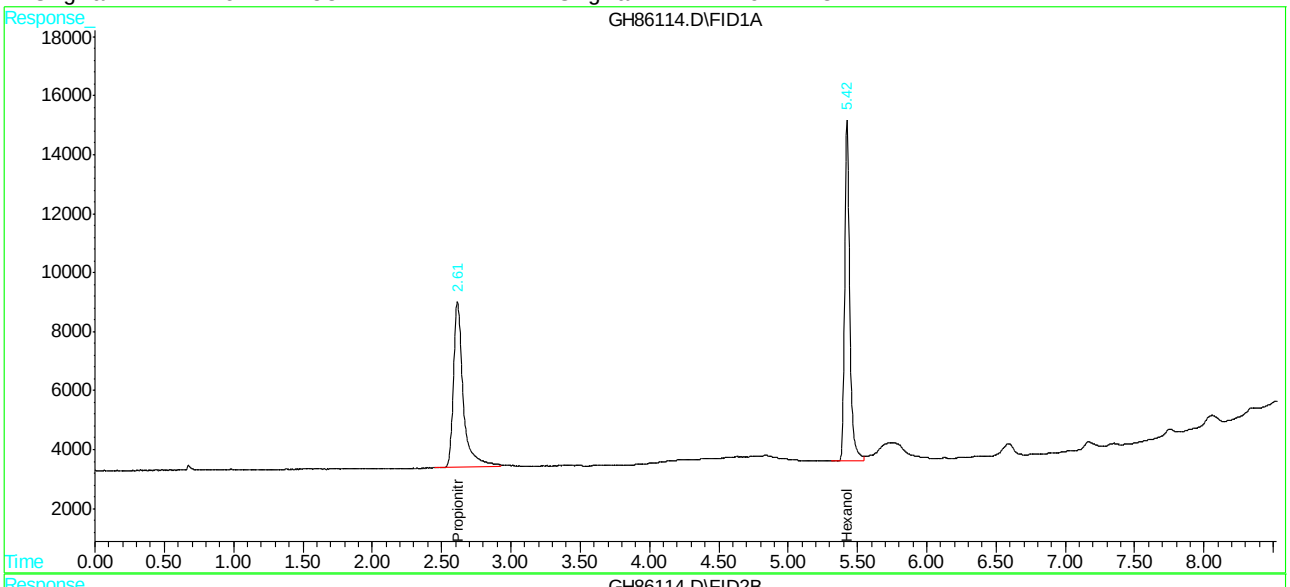
Quantitation Report (QT Reviewed)

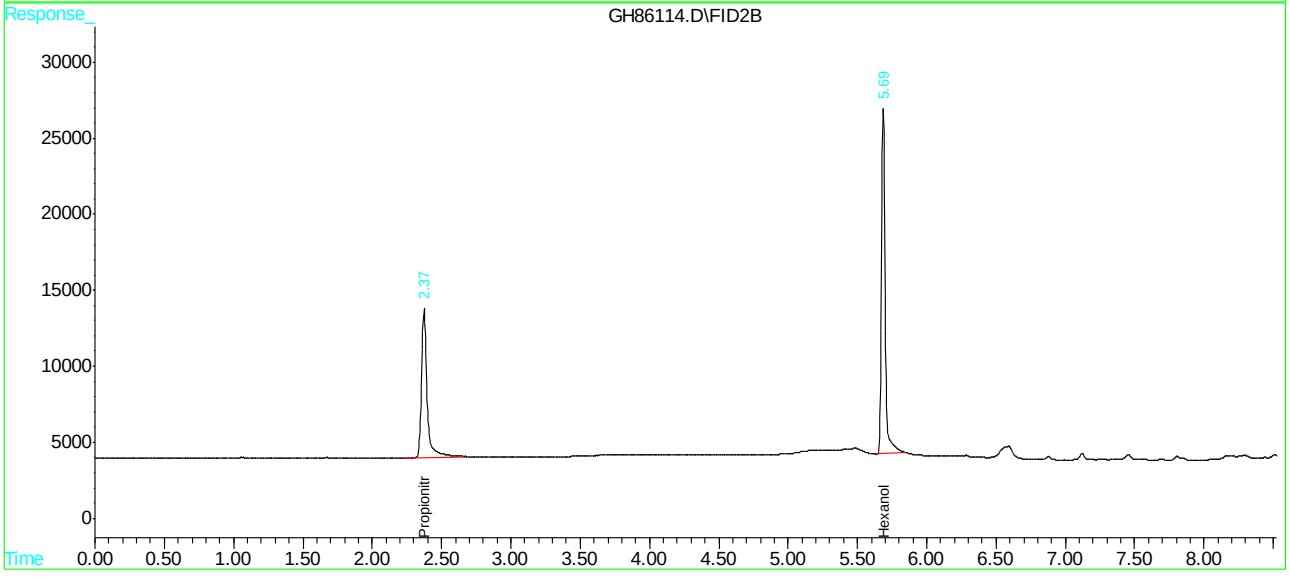
```
Data File : C:\HPCHEM\1\DATA\GH86114.D\FID1A.CH          Vial: 95
Acq On    : 17 Jan 2012   4:02 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86114.D\FID2B.CH          Vial: 95
Acq On    : 17 Jan 2012   4:17 pm                    Operator: XULIU
Sample    : ICV3933-5000                             Inst    : GCGH
Misc      : GC38067,GGH3942,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Jan 18  8:49 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Manual Integrations APPROVED (compounds with "m" flag)
Kanya Veerawat 02/12/12 23:32

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86281.D\FID1A.CH          Vial: 2
Acq On    :  7 Feb 2012   8:38 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86281.D\FID2B.CH          Vial: 2
Acq On    :  7 Feb 2012   8:52 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb 10 15:18 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.42	5.70	351143	410319	5692.393	5550.937
	Spiked Amount 5000.000			Recovery	=	113.85%	111.02%
	Target Compounds						
1)	Methanol	0.96	1.10f	71429	65694	4544.632	4835.367m
2)	Ethanol	1.25	1.40f	101432	120261	4466.289	5200.407
3)	Tert-Butyl Alcoh	1.75	1.99f	159110	196928	4582.855	5416.745
4)	1-Propanol	2.25	2.40f	130941	153717	4543.614	5511.779
5)	2-Propanol	1.52	1.70f	111134	136138	4327.209	5123.077
7)	Isobutanol	3.13	3.32	157504	173466	4493.011	5043.347m
8)	1-Butanol	3.61	3.78f	142005	155142	4485.556	4731.390
9)	2-Butanol	2.71	2.97f	136600	143771	4509.145	4942.232

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH86281.D MGH3933.M Fri Feb 10 15:36:26 2012 GCGH

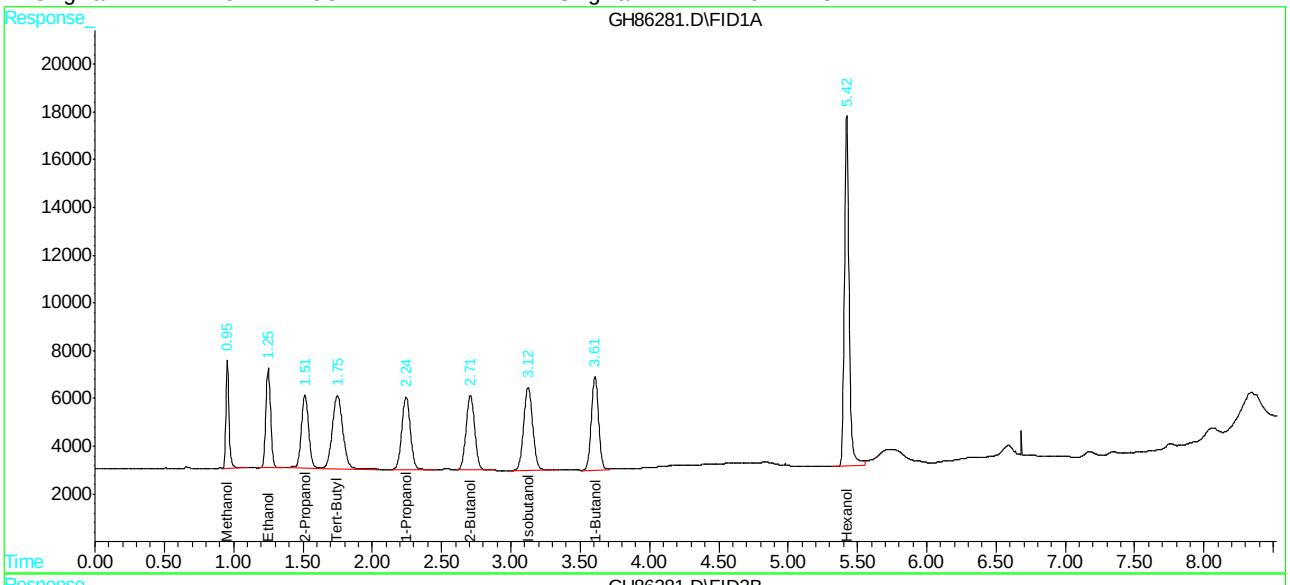
Quantitation Report (QT Reviewed)

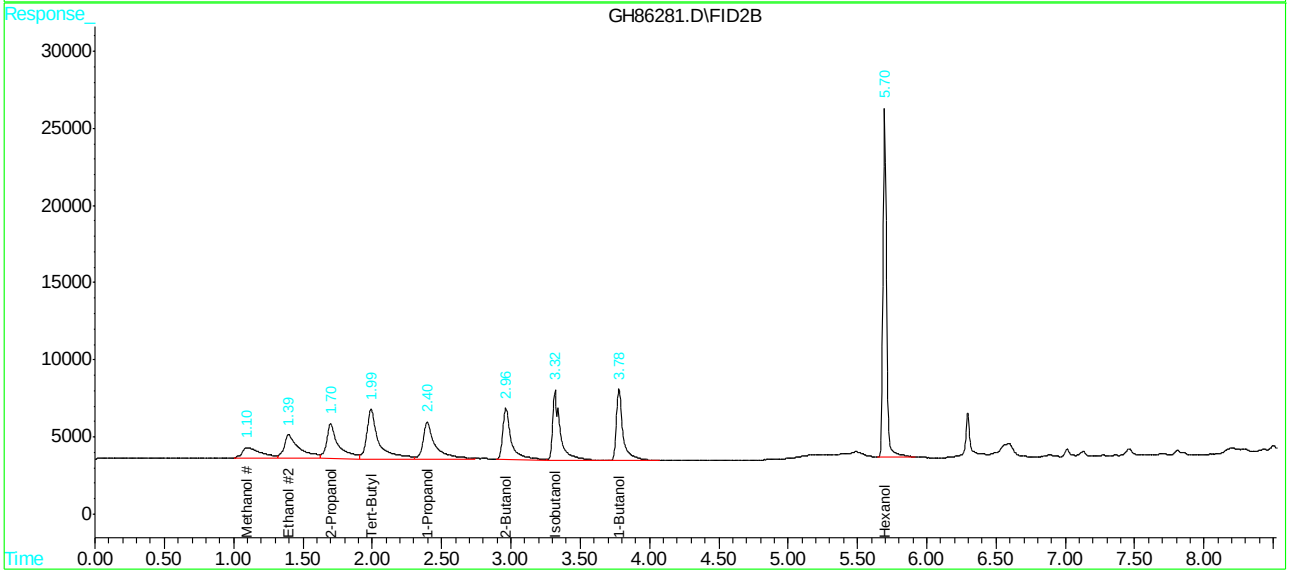
```
Data File : C:\HPCHEM\1\DATA\GH86281.D\FID1A.CH          Vial: 2
Acq On    :  7 Feb 2012   8:38 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86281.D\FID2B.CH          Vial: 2
Acq On    :  7 Feb 2012   8:52 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb 10 15:18 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Manual Integration Approval Summary

Sample Number:	GGH3957-CC3933	**Method:**	SW846-8015 (DAI)
Lab FileID:	GH86281.D	**Analyst approved:**	02/10/12 16:51 Jessica Reitan-Chu
Injection Time:	02/07/12 08:38	**Supervisor approved:**	02/12/12 23:32 Kanya Veerawat

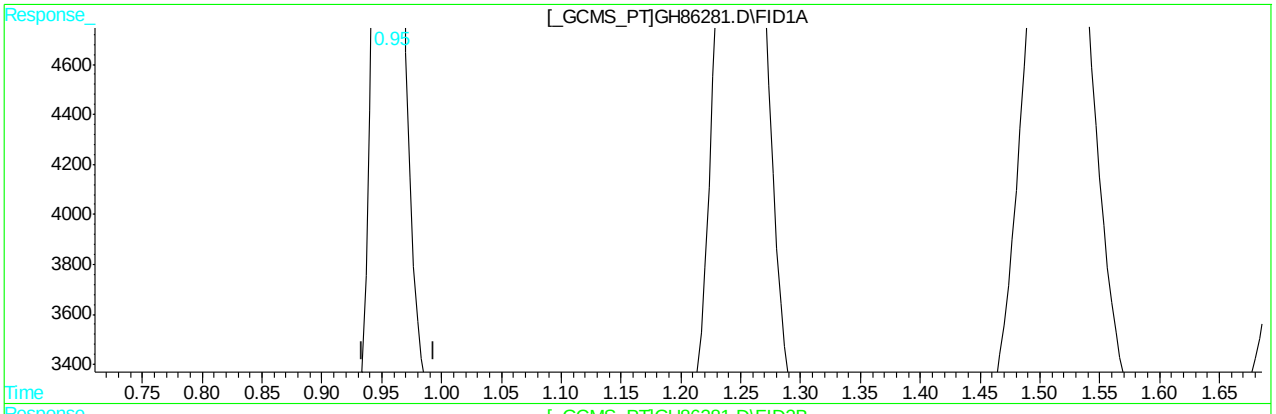
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methanol	67-56-1	2	1.10	Missed peak
Isobutyl Alcohol	78-83-1	2	3.32	Poor instrument integration

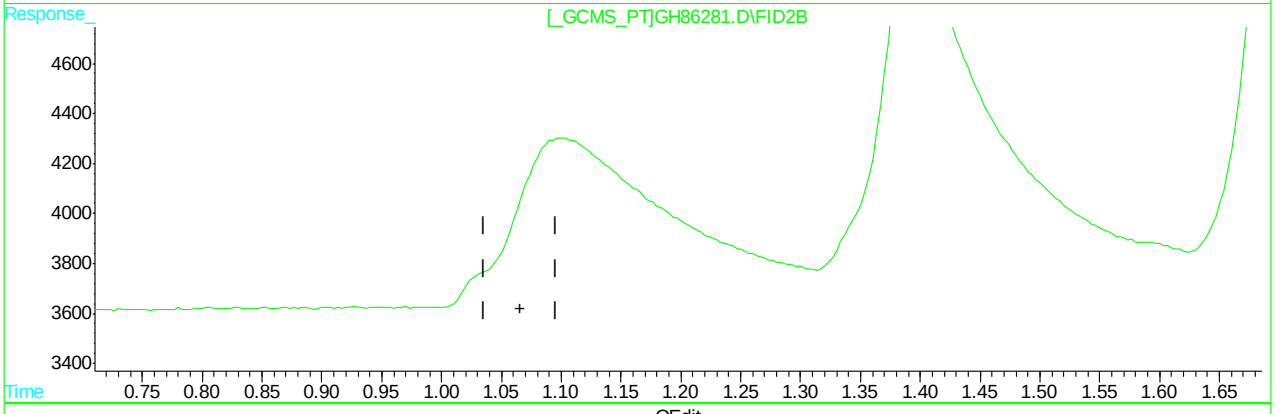
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86281.D\FID1A.CH          Vial: 2
Acq On    :  7 Feb 2012   8:38 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86281.D\FID2B.CH          Vial: 2
Acq On    :  7 Feb 2012   8:52 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb 10 12:50 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

0.96min 4544.632PPB

response 71429

(1) Methanol #2

0.00min 0.000PPB

response 0

(+) = Expected Retention Time

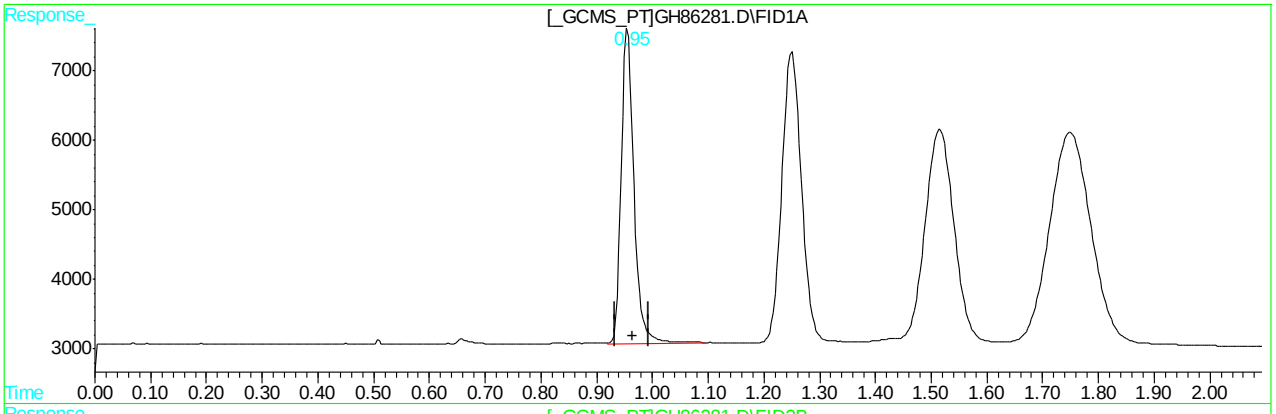
GH86281.D MGH3933.M Fri Feb 10 15:17:02 2012 GCGH

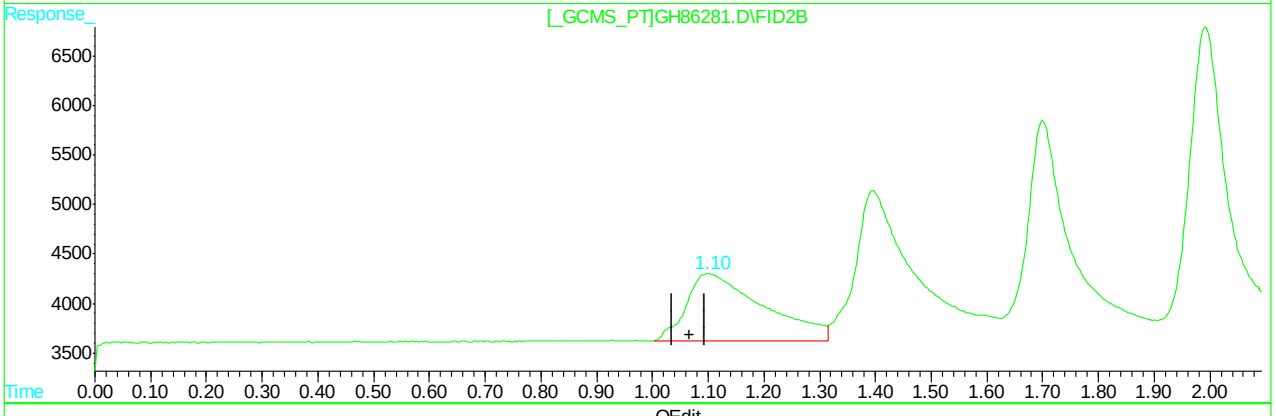
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86281.D\FID1A.CH          Vial: 2
Acq On    :  7 Feb 2012   8:38 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86281.D\FID2B.CH          Vial: 2
Acq On    :  7 Feb 2012   8:52 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb 10 12:50 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
```





QEdit

(1) Methanol

0.96min 4544.632PPB

response 71429

(1) Methanol #2

1.10min 4835.367PPB m

response 65694

(+) = Expected Retention Time

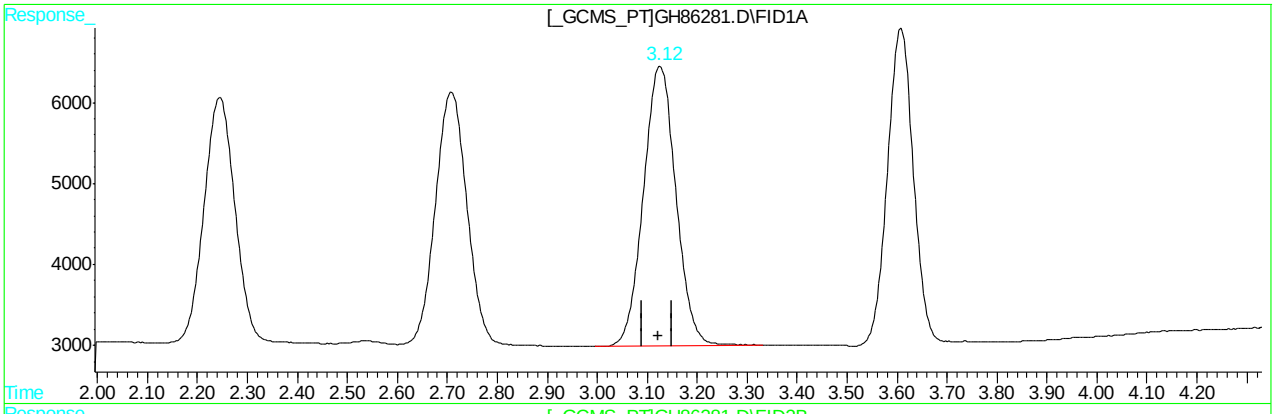
GH86281.D MGH3933.M Fri Feb 10 15:17:36 2012 GCGH

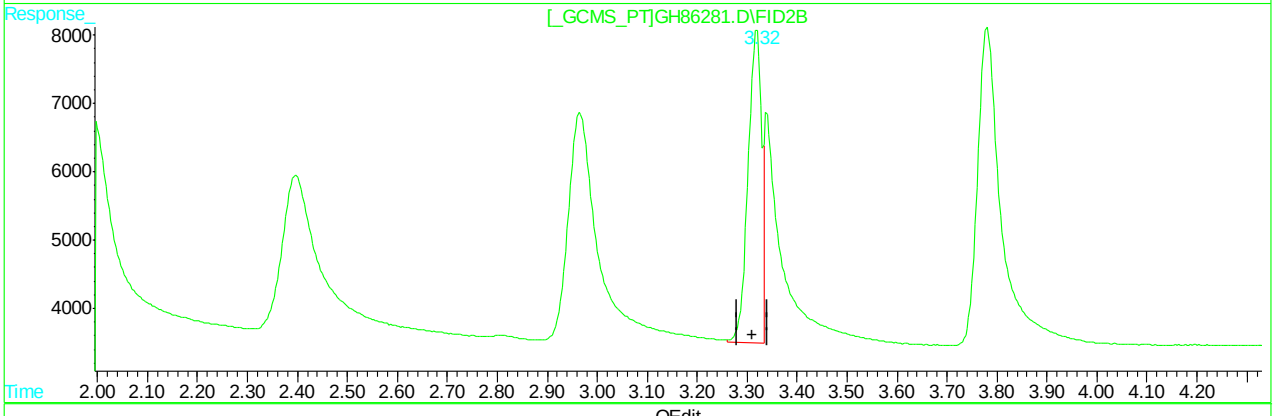
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86281.D\FID1A.CH          Vial: 2
Acq On    :  7 Feb 2012   8:38 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86281.D\FID2B.CH          Vial: 2
Acq On    :  7 Feb 2012   8:52 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb 10 12:50 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
```





QEdit

(7) Isobutanol

3.13min 4493.011PPB

response 157504

(7) Isobutanol #2

3.32min 2378.116PPB

response 81795

(+) = Expected Retention Time

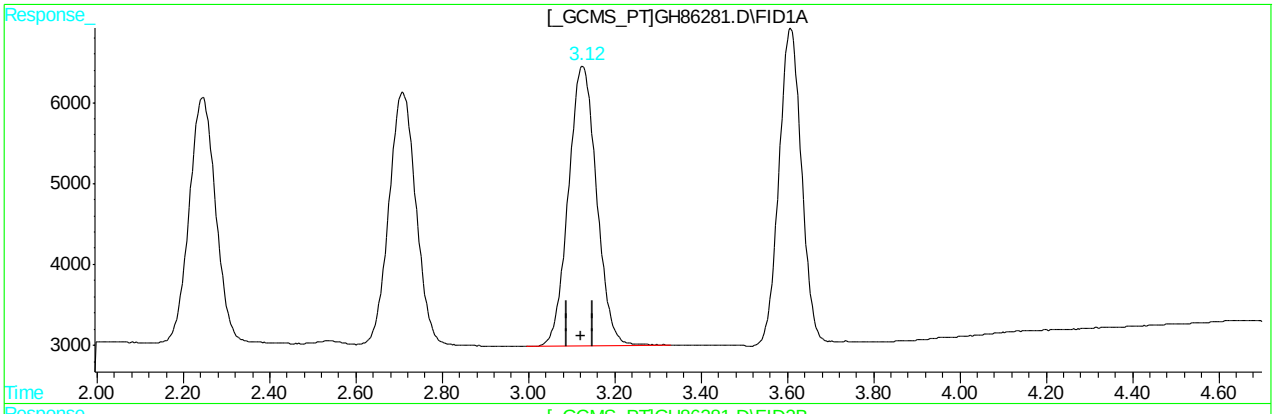
GH86281.D MGH3933.M Fri Feb 10 15:17:44 2012 GCGH

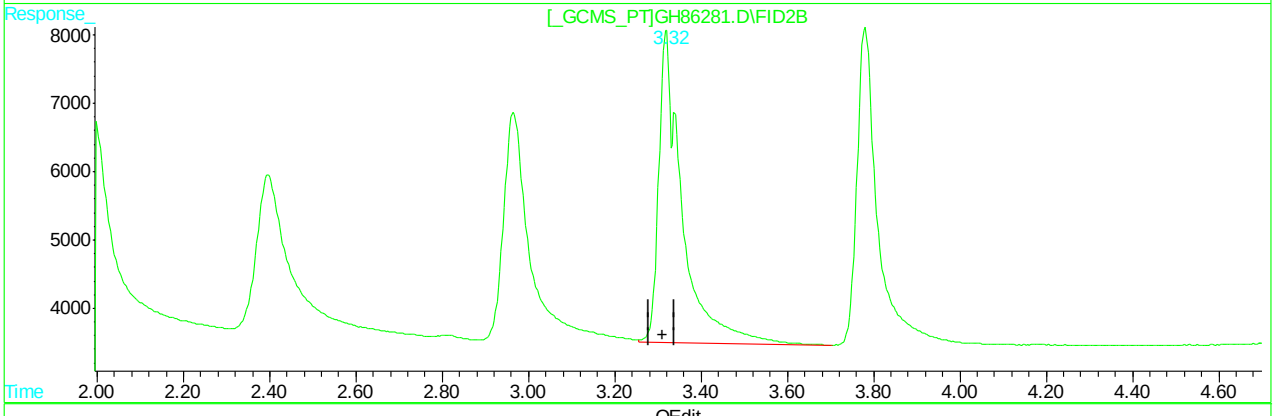
Quantitation Report (Qedit)

```
Data File : C:\HPCHEM\1\DATA\GH86281.D\FID1A.CH          Vial: 2
Acq On    :  7 Feb 2012   8:38 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86281.D\FID2B.CH          Vial: 2
Acq On    :  7 Feb 2012   8:52 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb 10 12:50 2012  Quant Results File: MGH3933.RES


Method       : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
```





QEdit

(7) Isobutanol

3.13min 4493.011PPB

response 157504

(7) Isobutanol #2

3.32min 5043.347PPB m

response 173466

(+) = Expected Retention Time

GH86281.D MGH3933.M Fri Feb 10 15:18:45 2012 GCGH

Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86292.D\FID1A.CH          Vial: 13
Acq On    :  7 Feb 2012   3:29 pm                    Operator: XULIU
Sample    : CC3933-10000                             Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86292.D\FID2B.CH          Vial: 13
Acq On    :  7 Feb 2012   3:49 pm                    Operator: XULIU
Sample    : CC3933-10000                             Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb 10 15:21 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.42	5.70	291336	409469	4722.865	5539.438
	Spiked Amount 5000.000			Recovery	=	94.46%	110.79%
	Target Compounds						
1)	Methanol	0.97	1.08f	151763	123121	9655.798	9062.187
2)	Ethanol	1.27	1.39f	206605	216895	9097.348	9379.134
3)	Tert-Butyl Alcoh	1.76	1.99f	317354	358999	9140.756	9874.743
4)	1-Propanol	2.26	2.39f	257016	280760	8918.377	10067.135
5)	2-Propanol	1.53	1.70f	230908	242211	8990.827	9114.789
7)	Isobutanol	3.13	3.33f	307091	326134	8760.175	9482.026
8)	1-Butanol	3.61	3.78f	274875	301075	8682.578	9181.911
9)	2-Butanol	2.72	2.96f	278931	284956	9207.442	9795.540

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

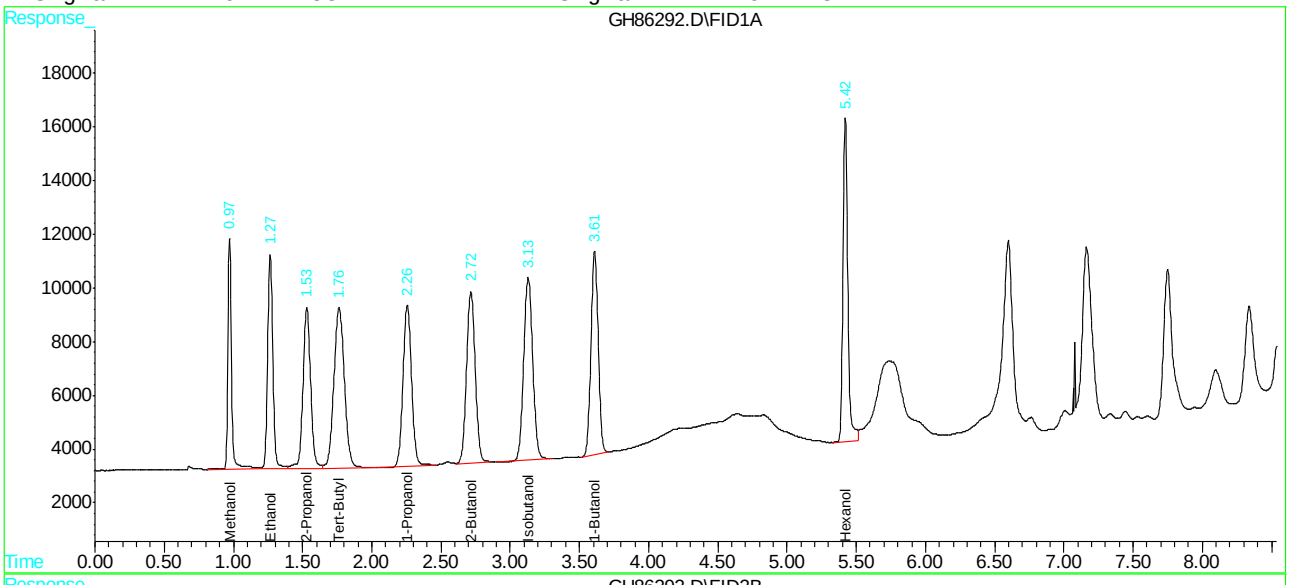
Quantitation Report (QT Reviewed)

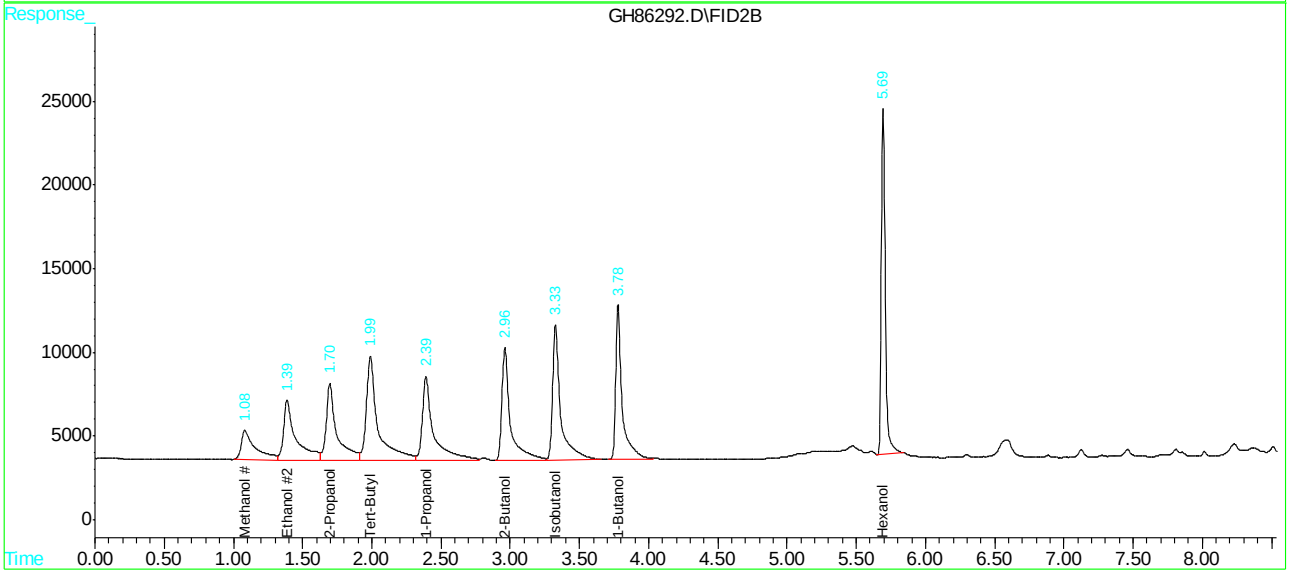
```
Data File : C:\HPCHEM\1\DATA\GH86292.D\FID1A.CH          Vial: 13
Acq On    :  7 Feb 2012   3:29 pm                    Operator: XULIU
Sample    : CC3933-10000                             Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86292.D\FID2B.CH          Vial: 13
Acq On    :  7 Feb 2012   3:49 pm                    Operator: XULIU
Sample    : CC3933-10000                             Inst    : GCGH
Misc      : GC38285,GGH3957,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb 10 15:21 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Tue Jan 17 13:49:44 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86334.D\FID1A.CH          Vial: 19
Acq On    :  9 Feb 2012   7:19 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38317,GGH3959,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86334.D\FID2B.CH          Vial: 19
Acq On    :  9 Feb 2012   7:28 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38317,GGH3959,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  9 10:33 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Feb 09 08:46:39 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

	Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
	System Monitoring Compounds						
10) S	Hexanol	5.40	5.67	269076	374157	4362.002	5061.726
	Spiked Amount 5000.000			Recovery	=	87.24%	101.23%
	Target Compounds						
1)	Methanol	0.96	1.05	75033	76999	4773.922	5667.397
2)	Ethanol	1.25	1.35	111352	118954	4903.110	5143.894
3)	Tert-Butyl Alcoh	1.74	1.94	201556	180736	5805.419	4971.383
4)	1-Propanol	2.23	2.34	147619	144015	5122.333	5163.917
5)	2-Propanol	1.51	1.65	119349	127894	4647.081	4812.844
7)	Isobutanol	3.10	3.28	168489	168245	4806.377	4891.556
8)	1-Butanol	3.59	3.73	156113	155992	4931.206	4757.302
9)	2-Butanol	2.69	2.91	150654	151963	4973.053	5223.825

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.
GH86334.D MGH3933.M Thu Feb 09 11:15:06 2012 GCGH

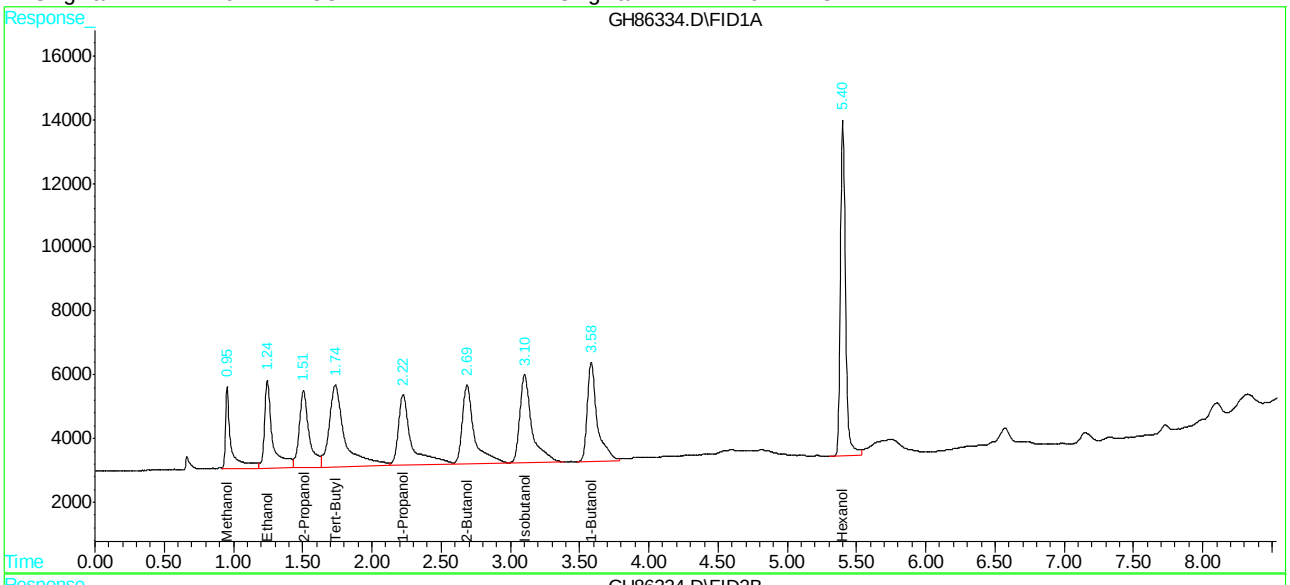
Quantitation Report (QT Reviewed)

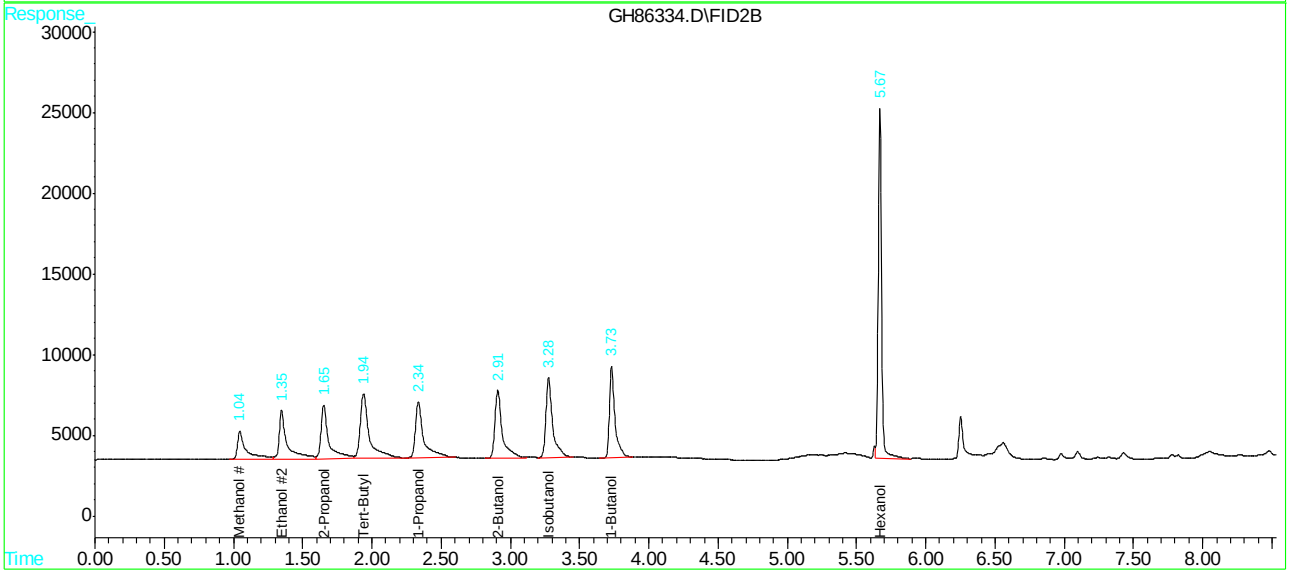
```
Data File : C:\HPCHEM\1\DATA\GH86334.D\FID1A.CH          Vial: 19
Acq On    :  9 Feb 2012   7:19 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38317,GGH3959,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86334.D\FID2B.CH          Vial: 19
Acq On    :  9 Feb 2012   7:28 am                    Operator: XULIU
Sample    : CC3933-5000                              Inst    : GCGH
Misc      : GC38317,GGH3959,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  9 10:33 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Feb 09 08:46:39 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





Quantitation Report (QT Reviewed)

```
Data File : C:\HPCHEM\1\DATA\GH86345.D\FID1A.CH          Vial: 19
Acq On    :  9 Feb 2012  11:59 am                    Operator: XULIU
Sample    : CC3933-10000                             Inst    : GCGH
Misc      : GC38301,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86345.D\FID2B.CH          Vial: 19
Acq On    :  9 Feb 2012  12:09 pm                    Operator: XULIU
Sample    : CC3933-10000                             Inst    : GCGH
Misc      : GC38301,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  9 12:33 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Feb 09 12:33:42 2012
Response via : Initial Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```

Compound	RT#1	RT#2	Resp#1	Resp#2	PPB	PPB
System Monitoring Compounds						
10) S Hexanol	5.41	5.67	270480	371478	4384.766	5025.480
Spiked Amount 5000.000			Recovery	=	87.70%	100.51%
Target Compounds						
1) Methanol	0.96	1.04	152509	134470	9703.240	9897.527
2) Ethanol	1.25	1.35	211747	215123	9323.762	9302.512
3) Tert-Butyl Alcoh	1.74	1.94	360307	378072	10377.926	10399.366
4) 1-Propanol	2.23	2.33	282874	301271	9815.674	10802.594
5) 2-Propanol	1.51	1.65	233286	252837	9083.443	9514.631
7) Isobutanol	3.11	3.28	326118	341123	9302.942	9917.820
8) 1-Butanol	3.59	3.73	293658	311386	9275.883	9496.380
9) 2-Butanol	2.69	2.91	296411	302126	9784.436	10385.795

(f)=RT Delta > 1/2 Window (#)=Amounts differ by > 40% (m)=manual int.

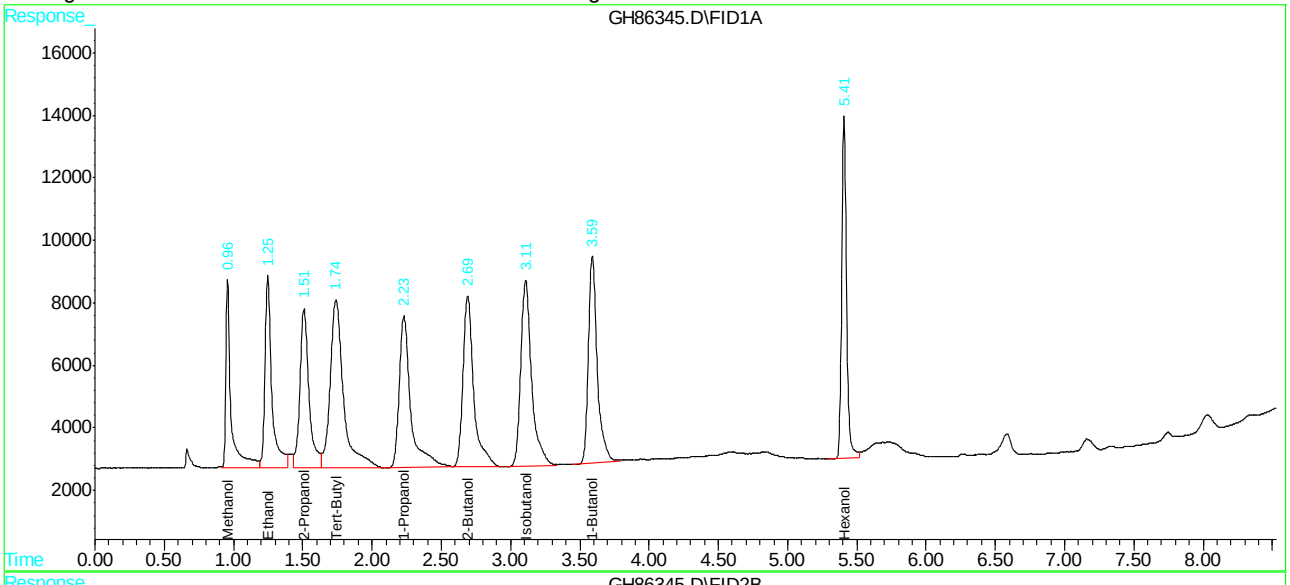
Quantitation Report (QT Reviewed)

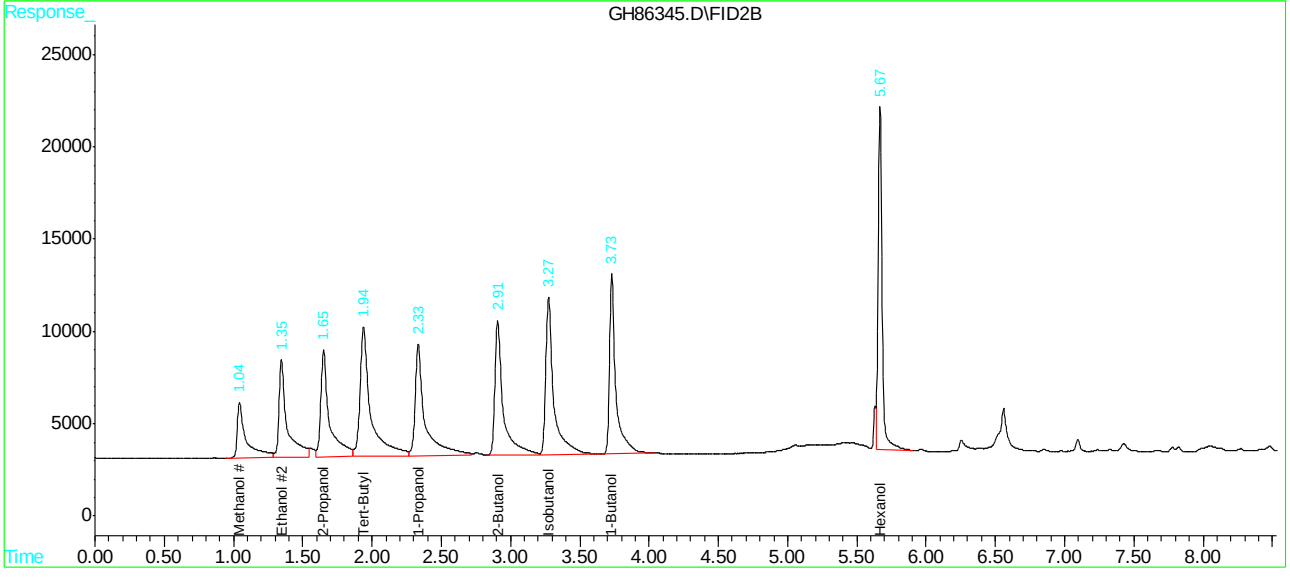
```
Data File : C:\HPCHEM\1\DATA\GH86345.D\FID1A.CH          Vial: 19
Acq On    :  9 Feb 2012  11:59 am                    Operator: XULIU
Sample    : CC3933-10000                             Inst    : GCGH
Misc      : GC38301,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : autoint1.e

Data File : C:\HPCHEM\1\DATA\GH86345.D\FID2B.CH          Vial: 19
Acq On    :  9 Feb 2012  12:09 pm                    Operator: XULIU
Sample    : CC3933-10000                             Inst    : GCGH
Misc      : GC38301,GGH3960,5,,,,1                   Multiplr: 1.00
IntFile   : AUTOINT3.E
Quant Time: Feb  9 12:33 2012  Quant Results File: MGH3933.RES

Quant Method : C:\HPCHEM\1\METHODS\MGH3933.M (Chemstation Integrator)
Title        : METHOD SW846-8015B (DAI)
Last Update  : Thu Feb 09 12:33:42 2012
Response via : Multiple Level Calibration
DataAcq Meth : MGH3933.M

Volume Inj.     : 2ul
Signal #1 Phase : ZB-624            Signal #2 Phase: RTX-1
Signal #1 Info  : .53mm ID          Signal #2 Info : .32 mm ID
```





ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH3933

Print Analyst Name: Xu Liu 1/14

Analyst Signature:

Date: 1/14/12

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
011-1030-134	ALC SUR	2000 ppm
011-1030-143	~~ALC~~ Propionitrile	100 ppm
011-1030-164	Propionitrile (2)	100 ppm

Columns: 2B6W / RTX-1 (30m x 0.53mm) (30m x 0.32mm)

Method 8015B

Initial Cal. Method MGH3933

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: JB Date: 1/19

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
	GH86106	2B										✓	OK		
	86107	IC3933-100										✓	OK	4µl sur, 10µl STD/10mL	H2O
	86108	IC3933-500										✓	OK	1µl sur, 5µl STD/1mL	H2O
	86109	IC3933-1000										✓	OK	2µl sur, 10µl STD/	
	86110	IC3933-5000										✓	OK	2.5µl sur, 50µl STD/	
	86111	IC3933-10000										✓	OK	2.5µl sur, 100µl STD/	
	86112	IC3933-50000										✓	OK	3.0µl sur, 500µl STD/	
	86113	IC3933-100000										✓	OK	4.0µl sur, 1000µl STD/	
	86114	IC3933-5000D										✓	OK	2.5µl sur, 50µl STD(2)/mL	H2O
	15														

UX 1/14

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

299

8.6.1

8

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: GGH3957

Print Analyst Name: DEAN JAN

Analyst Signature: [signature]

Date: 2/7/12

Columns: ZB624 / RTX-1 (30m x 0.53mm) (30m x 0

Method 8015B

Initial Cal. Method MGH395

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
011-1030-147	ALC Sur (3/2/12)	1000ppm
011-1030-148	ALC STD (3/2/12)	100ppm
011-1030-149	ALC STD 2 (3/2/12)	100ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to com with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 2/10/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	GH86280	IB											OK		
	86281	CC3933-5000											OK	50ml STD / ml H2O	
	86282	MB1										✓	OK		
	86283	BS										✓	OK	50ml STD 2 / ml H2O	
R	86284	JA98540-6	38285 ETHL	S L	2		5.0g / 5ml					✓	OK		
R	86285	JA98540-7	↓	↓	2		5.0g / 5ml					✓	OK		
R	86286	JA98540-8	↓	↓	2		5.0g / 5ml					✓	OK		
	86287	JA98540-8MS	38285 ETHL	↓	2		5.0g / 5ml					✓	OK		
	86288	JA98540-8MSD	↓	↓	2		5.0g / 5ml					✓	OK		
	86289	JA98549-1	38287 ETHL	S M E	3		5.0g / 5ml					✓	OK		
	86290	JA98695-1	38301 IPA, METH	S L	1		5.0g / 5ml					↓	RR	reprepped	
	86291	JA98695-2	↓	↓	1		5.0g / 5ml					✓	OK		
	86292	CC3933-10000											OK	100ml STD / ml H2O	
	86293	~~JA98695-1~~ JA98695-1 ~~MB1~~	38301 IPA, METH	S L	1		5.0g / 5ml						RR	JA98695-1. due to no MB	
	86294	~~JA98695-1~~ CC3933-5000 MB1											NG	50ml STD / ml H2O	
	86295	~~JA98540-1~~											RR		
R	86296	JA98540-2		S L	2		5.0g / 5ml						↓		

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: 6GH3957

Date: 2/7/12

Print Analyst Name: DEAN JAN

Analyst Signature:

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See page	
	45	

Columns: ZB624/RTX-1 (30m X0.53mm) (30m X0.52mm)

Method 8015B

Initial Cal. Method M6H3933

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: Date: 2/10/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
R	GH86297	JA98340-3		S/C	2		5.0g/5ml						RR		
R	86298	JA98340-4			2										
R	86299	JA98340-5			2										
R	86300	~~JA98340-1~~ ~~M3933-500~~ JJ 2/7/12			2										
R	86301	JA98695-1		S/C	1		5.0g/5ml						RR JJ ~~OK~~ 2/7/12		
	86302	M3933-10000											NG	100ml STD/ml H2O	

DJ 2/7/12

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: GGH3960

Date: 2/9/12

Print Analyst Name: DEAN JAN

Analyst Signature: [signature]

Columns: ZB624 / RTX-1 (30 mx0.53mm) (30mx0.52mm)

Method 8015B

Initial Cal. Method MGH3933

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
011-1030-147	ALC Sur (3/2/12)	2000 ppm
011-1030-148	ALC STD (3/2/12)	100 ppm
011-1030-149	ALC STD 2 (3/2/12)	100 ppm

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 2/10/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* <2
	GH86333	IB											ok		
	86334	CC398-5000											ok	50ml STD/mL H20	
	86335	MB										✓	ok		
	86336	BS										✓	ok	50ml STD 2/mL H20	
R	86337	JA98540-1	38285 ETHL	SCL	2		5.0g / 5ml					✓	ok		
R	86338	JA98540-2	↓		2		↓					✓	ok		
R	86339	JA98540-2MS			2							✓	ok		
R	86340	JA98540-2MSD			2							✓	ok		
R	~~86340~~ 86341 03/09/12	JA98540-3			2							✓	ok		
R	~~86340~~ 86342 03/09/12	JA98540-4			2							✓	ok		
R	~~86340~~ 86343 03/09/12	JA98540-5	↓	↓	2		↓					✓	ok	No reported 2nd channel only	
R	~~86340~~ 86344 03/09/12	~~JA~~ JA98695-1	38301 IPA, METH	SCL	1		5.0g / 5ml					✓	ok	↓	
	86345	CC3933-1000											ok	100ml STD/mL H20	
	86346	MB2											RR		
	86347	JA98837-1	~~38317~~ 03/09/12 NBA, ETHL,	EF	5		1							38317 METH	
	86348	JA98831-1	~~PMETHL~~ 03/09/12	EF	3		1							38317 NBA, ETHL, METH	
	86349	JA98831-2	~~03/09/12~~	WW	2		1						↓	38317 NBA, ETHL, METH	

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.
Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9
Rev. Date: 2/14/2007

ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: GGH3960

Date: 2/9/12

Print Analyst Name: DEAN TRAN

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc.

Standard Data

Lot #	Description	Conc.
	See Page 53	

Columns: ZB624/RTX-1 (30m x 0.53mm) (30m x 0.52mm)

Method 8015B

Initial Cal. Method MGH3133

Manually integrated chromatographic peaks in the following reportable files have been reviewed and verified to comply with the criteria of Accutest SOP EQA044.

Supervisor Signature: [signature] Date: 2/10/12

R	Data File	Sample ID	Test	MTX	Vial #	ALS #	Samp. Amt (ml or g)	MOH amt. (ul)	Secondary dilution	L+	IS	SU	Status (Data)	Comments	pH* < 2
R	GH86350	JA98540-5	38285 ETHL	SL	2		5.0g / 5ml						RR		
R	86351	JA98695-1	38301 IPA,METH	SL	1		5.0g / 5ml						↓		
	86352	CC3933-5000											NGT	50mL STD / mL H2O	
	86353	CC3933-5000												50mL STD/mL H2O	
	86354	MB3													
R	86355	JA98540-5	38285 ETHL	SL	2		5.0g / 5mL						RR		
R	86356	JA98695-1	38301 IPA,METH	SL	1		5.0g / 5mL						RR		
	86357	CC3933-10000												100mL STD/mL H2O	

2/9/12 DJ

MTX = Matrix Designate W for water, S for soil, O for oil. L+ =Library Search. IS = Internal Standard Area. SU = Surrogate.

Sample Amt = Volume (ML) or Weight (g); MOH amt.= volume (ul) extract injected * IF pH > 2, comment on sample result.

All strike outs must be initialed, dated and reason code applied as follows: 1 = reviewer correction error; 2 = transcription error; 3 = computer miscalculation; 4 = analyst's correction error

Form: OR001-9

Rev. Date: 2/14/2007

New Jersey

ACCUTEST LABORATORIES

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: JA98695
Account: AMANYWP Anderson, Mulholland & Associates
Project: BMSMC, Building 5 Area, PR

Sample: JA98695-1 **Analyzed:** 10-FEB-12 by WR **Method:** SM18 2540G
ClientID: I-7A

Wet Weight (Total)	27.79	g
Tare Weight	20.06	g
Dry Weight (Total)	26.42	g
Solids, Percent	82.3	%

Sample: JA98695-2 **Analyzed:** 10-FEB-12 by WR **Method:** SM18 2540G
ClientID: I-1R3A

Wet Weight (Total)	31.77	g
Tare Weight	22.95	g
Dry Weight (Total)	30.04	g
Solids, Percent	80.4	%