ENVIRONMENTAL
PLANNING &
MANAGEMENT, INC.

RECEIVED
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REMEDIAL BUREAU E

James Hahn
James J. Hahn Engineering
Putnam Business Park
1689 Route 22
Brewster, NY 10509

February 1, 2012

Dear Mr. Hahn:

Enclosed please find the annual monitoring report of 2010 for the Katonah Municipal Well, Town of Bedford, Westchester County, New York (NYSDEC Site ID # 3-60-007).

Please call should you have any questions.

Sincerely,

Stacey Gogos
President

cc: Kenneth Caffrey, PE, NYSDOH
Carl Hoffman, NYSDEC
William Nixon, Town of Bedford
Paul Kutzy, Westchester County DOH
Damian Duda, USEPA Region 2

GROUNDWATER QUALITY MONITORING
ANNUAL REPORT
2011
KATONAH MUNICIPAL WELL
TOWN OF BEDFORD
WESTCHESTER, NEW YORK
NYSDEC SITE ID # 3-60-007

EPM PROJECT NUMBER: 11001

PREPARED FOR:

James J. Hahn Engineering
Millbrook Office Center
Route 22 & Milltown Road
Brewster, New York 10509

PREPARED BY:

Environmental Planning & Management, Inc.
1983 Marcus Avenue, Suite 109
Lake Success, New York 11042

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1.0 INTRODUCTION

This annual groundwater sampling and analysis report has been prepared for the Katonah Municipal Well Site in Katonah, Town of Bedford, New York. This submittal is in accordance with the groundwater monitoring requirements of the New York State Department of Health (NYSDOH) and the United States Environmental Protection Agency (USEPA). This report includes the data collection and analysis results of the remedial system operation for the year-end of 2011. Sampling of the remedial system and the two existing monitoring wells was conducted on December 22, 2011.

2.0 SAMPLE COLLECTION

Environmental Planning & Management Incorporated collected samples on December 22, 2011. Three sample sets were collected from sampling taps; the raw water sampling tap (RW), the stripper number two effluent sampling tap (STEFF), and the distribution sampling tap (DIST). One field duplicate sample (DUP) was collected from the Raw Water sampling tap. Samples were also collected from two monitoring wells, W4 and W11. Sample locations are shown on Figure 1 - Sampling Tap Location Schematic. Sampling was conducted in accordance with the approved Project Operation Plan.

Samples were labeled at the field location and placed into transport coolers containing ice. A field equipment blank, trip blank and chain-of-custody documentation accompanied the samples to the laboratory for analysis. The samples were analyzed by Accutest laboratories, of Dayton, New Jersey (NYS-Department of Health approved Environmental Laboratory Accreditation Program (ELAP) laboratory #10983, in accordance with CLP methods, for volatile organics (Principal Organic Contaminants), by USEPA method 524.2, revision number 3.

3.0 FINDINGS

VOC Analysis

Table 1 provides a summary of the analytical results for the annual water quality monitoring in comparison to the New York State Department of Health (NYSDOH) Drinking Water Standards and the United States Environmental Protection Agency (US EPA) site-specific clean-up standard for Tetrachloroethene (PCE). As indicated by the laboratory analysis, the treatment system effluent meets the NYSDOH drinking water standards and the USEPA clean-up level of less than one part per billion (ppb) (or non-detectable) for Tetrachloroethene.

Tetrachloroethene was detected in the untreated Raw Water (RW) sample, at a concentration of 22.2 µg/L (ppb), which exceeds the Site-Specific USEPA clean-up standard of 1 ppb. Sample RW also exhibited Trichloroethylene, cis-1,2-Dichloroethylene, Chloroform, and Methyl Tert Butyl Ether (MTBE) at concentrations below the NYSDOH drinking water standard.

Analytical results for the duplicate sample (DUP) of the Raw Water (RW) similarly exhibited Tetrachloroethene at a concentration 23.7 ppb. This sample also exhibited Trichloroethylene, cis-1,2-Dichloroethylene, Chloroform, and Methyl Tert Butyl Ether (MTBE) at concentrations below the NYSDOH drinking water standard.

No VOCs were detected in the treated (stripper number 2) water sample, STEFF.

Four VOCs; Chloroform, Bromoform, Dibromochloromethane, and Bromodichloromethane were detected in the Distribution (DIST) water sample at concentrations below the NYSDOH drinking water standards.

Two VOCs, Trichloroethylene, and cis-1,2-Dichloroethene were detected in monitoring well 4 (MW4) at concentrations below the NYSDOH drinking water standards.

Two VOCs, Tetrachloroethylene, and Chloroform were detected in monitoring well 11 (MW11) at concentrations below the USEPA Cleanup Standard and the NYSDOH drinking water standard as applicable.

No VOCs were detected in the Field Blank (FB) or Trip blank water samples, demonstrating that no contamination was introduced during sampling and that cross-contamination had not occurred during delivery of the samples to the laboratory.

Refer to Table 1 for a summary of the groundwater analysis results for volatile organic compounds (VOCs). Table 1 reflects the detectable concentration values which have been qualified as a result of data validation. Refer to Appendix A for the data validation report which details any variations of the detectable concentration values discussed above.

The PCE concentration in the Influent (raw water) has decreased relative to the last

sampling event (see Figure 2). To date, the PCE level in the raw water samples is not of significant concern, since the treated water and distribution water samples continue to exhibit non-detectable or insignificant concentrations of PCE. However, changes in PCE levels will continue to be closely monitored.

Table 1 - SUMMARY OF ANNUAL VOC RESULTS KATONAH MUNICIPAL WELL								
Date Collected	**12/22/2011**							
Sample Location	**Raw Water (Influent)**	**RW DUP**	**STEFF (Treated Water)**	**DIST (Distribution Water)**	**MW4 (Well 4)**	**MW11 (Well 11)**	**FB (Field Blank)**	**NYSDOH MCL / USEPA Standard**
Volatile Organic Compounds (ppb)								
Tetrachloroethylene (127-18-4)	[redacted]	[redacted]	ND	ND	ND	0.55	ND	[redacted]
Trichloroethylene (79-01-6)	0.74	0.81	ND	ND	0.74	ND	ND	5
cis-1,2-Dichloroethylene (156-59-2)	0.54	0.59	ND	ND	0.42 J	ND	ND	5
Methylene Chloride (75-09-2)	ND	ND	ND	ND	ND	ND	ND	5
Chloroform (67-66-3)	0.10 J	0.11 J	ND	0.39 J	ND	0.15 J	ND	80**
Bromoform (75-25-2)	ND	ND	ND	2.7	ND	ND	ND	80**
Dibromochloromethane (124-48-1)	ND	ND	ND	3.0	ND	ND	ND	80**
Bromodichloromethane (75-27-4)	ND	ND	ND	1.5	ND	ND	ND	80**
Methyl Tert Butyl Ether(MTBE 1634-04-4)	0.059 J	0.059 J	ND	ND	ND	ND	ND	10

Notes

USEPA MCL: United States Environmental Protection Agency, National Primary Drinking Water Regulations, Maximum Contaminant Limit

USEPA Standard: United States Environmental Protection Agency, Site Specific Cleanup Standard

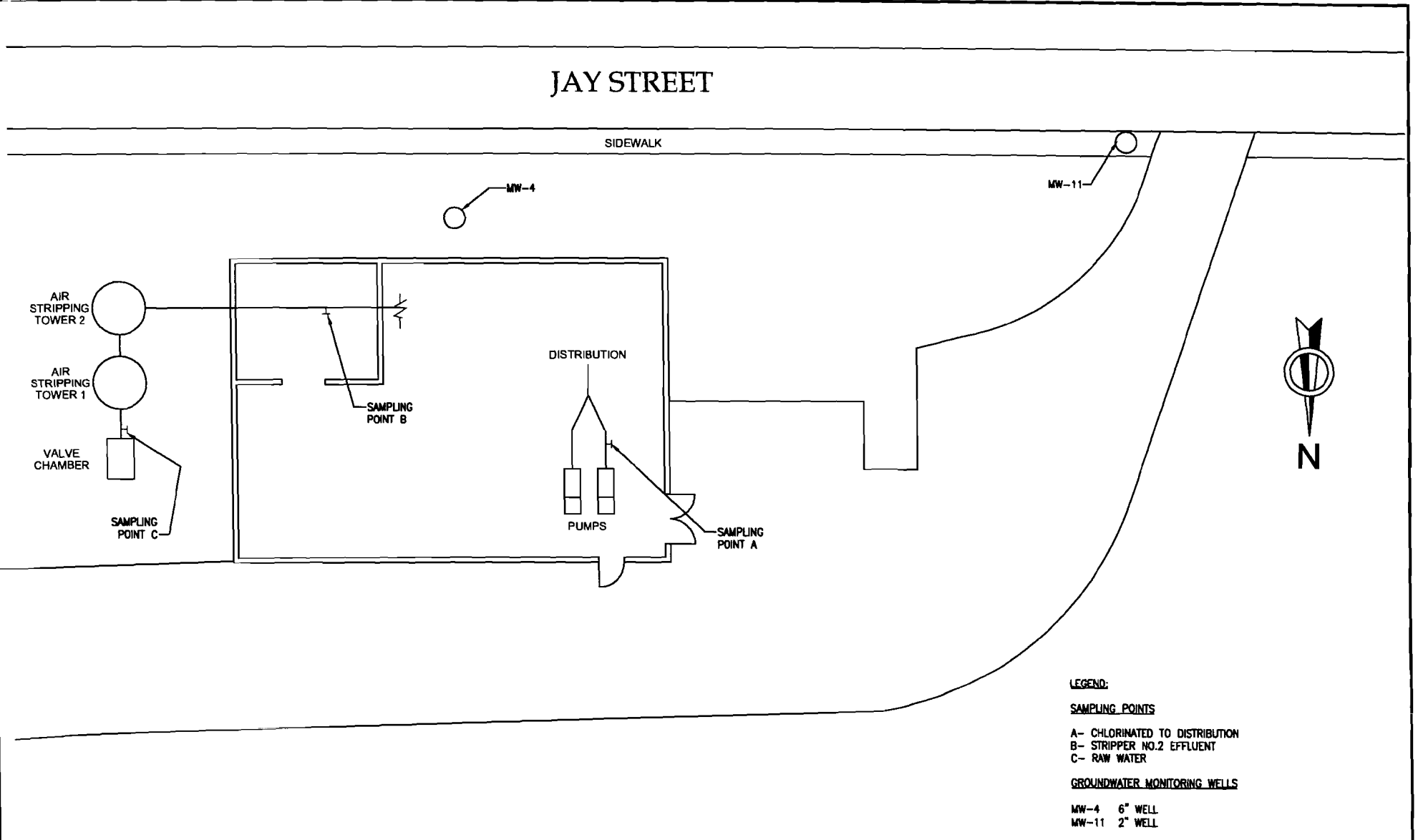
* - 1 ppb is the USEPA site specific cleanup standard for tetrachloroethylene

** - Total Trihalomethanes (TTHMS - chloroform, bromodichloromethane, dibromochloromethane, and bromoform)

Shading [redacted]

J - Denotes an estimated value

ND - No Detectable Concentration



PEM ENVIRONMENTAL PLANNING & MANAGEMENT, INC. 1983 MARCUS AVENUE SUITE 109 LAKE SUCCESS, NEW YORK 11042	DRAWN BY: AMR	DATE:	CLIENT: KATONAH MUNICIPAL WATER SYSTEM	TITLE: SIMPLIFIED SAMPLING LOCATION SCHEMATIC	DRAWING NO: FIG. 1
	CHECKED BY: FP	FILENAME: KATONAH		PROJECT LOCATION: KATONAH MUNICIPAL WATER SYSTEM KATONAH, NEW YORK	SHEET 1 OF 1
	APPR'VD BY: ASG	SCALE: NOT TO SCALE			
	PATH: C:\AMR\BEDFORD\KATONAH\22001DWGS				

Figure 2

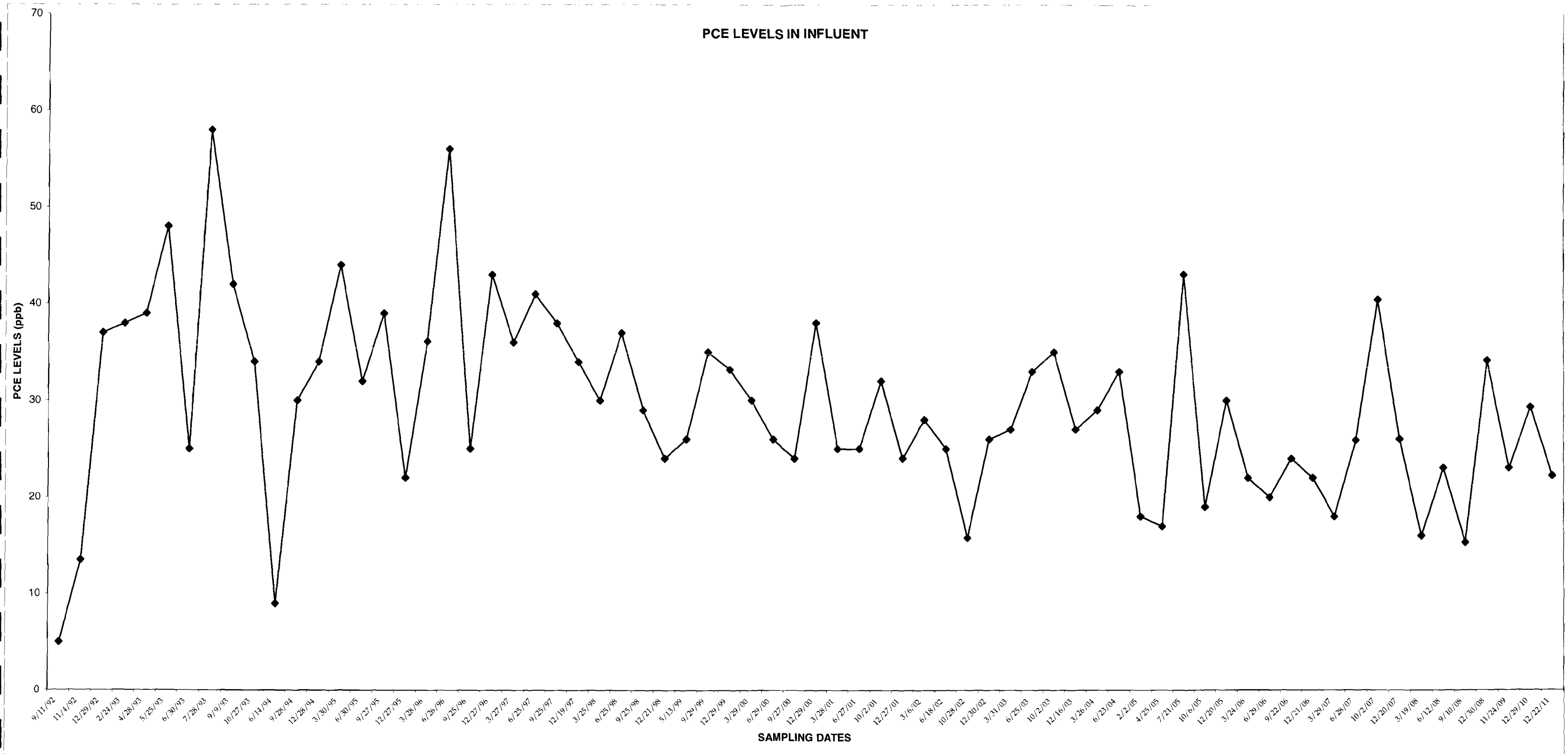


FIGURE -2

4.0 FUTURE ACTIONS

Water quality monitoring will continue to be conducted annually at the treatment system influent, stripper effluent, distribution point, and the two groundwater monitoring wells.

The next annual sampling event for the year-end of 2012, the twenty-first year of sampling, is tentatively scheduled for the month of December, 2012.

APPENDIX A

DATA VALIDATION REPORT

ENVIRONMENTAL
Data Services, Inc.

DATA USABILITY SUMMARY REPORT
KATONAH PUMP HOUSE, BEDFORD, NEW YORK

Client: EPM, Inc., Lake Success, New York
SDG: JA95756
Laboratory: Accutest Laboratories, Dayton, New Jersey
Site: Katonah Q4, Katonah Pump House, Bedford, NY
Date: February 14, 2012

EDS ID	Client Sample ID	Laboratory Sample ID	Matrix
1	RW	JA95756-1	Water
1MS	RW MS	JA95756-1MS	Water
1MSD	RW MSD	JA95756-1MSD	Water
2	DUP	JA95756-2	Water
3	DIST	JA95756-3	Water
4	STEFF	JA95756-4	Water
5	MW-4	JA95756-5	Water
6	MW-11	JA95756-6	Water
7	FB	JA95756-7	Water
8	TB	JA95756-8	Water

A Data Usability Summary Review was performed on the analytical data for six water samples, one aqueous field blank sample and one aqueous trip blank sample collected on December 22, 2011 by EPM, Inc. at the Katonah Q4 site in Bedford, New York. The samples were analyzed under Environmental Protection Agency (USEPA) *"Methods for the Determination of Organic Compounds in Drinking Water, December 1988, Revised July 1991".*

Specific method references are as follows:

Analysis	*Method References*
VOC	USEPA Method 524.2, Rev 4.1

The data have been validated according to the protocols and quality control (QC) requirements of the analytical methods and the USEPA Region II Data Review Standard Operating Procedures (SOPs) as follows:

- SOP Number HW-24, Revision 2, August 2008: Validating Volatile Organic Compounds by SW-846 Method 8260B;
- and the reviewer's professional judgment.

The following items/criteria were reviewed:

Organics

- Data Completeness
- Holding times and sample preservation

- Surrogate Spike recoveries
- Matrix Spike/Matrix Spike Duplicate (MS/MSD) recoveries
- Laboratory Control Sample/Duplicate (LCS/LCSD) recoveries
- Method blank and field blank contamination
- Gas Chromatography (GC)/Mass Spectroscopy (MS) tuning
- Initial and continuing calibration summaries
- Compound Quantitation
- Internal standard area and retention time summary forms
- Field Duplicate sample precision

Overall Usability Issues:

There were several rejections of data. This data cannot be used in the decision-making process for this project.

- Acetone and 2-butanone were rejected in all samples due low initial calibration RRF values.

Overall the data is acceptable for the intended purposes. Data were qualified for the following deficiencies.

- Carbon disulfide was qualified as estimated in four samples due to a high continuing calibration %D value.

Please note that any results qualified (U) due to blank contamination may be then qualified (J) due to another action. Therefore, the results may be qualified (UJ) due to the culmination of the blank contaminations and actions from other exceedences of QC criteria.

Data Completeness

- The data is a complete Category B data package as defined under the requirements for the NYS Department of Environmental Conservation Analytical Services Protocol.

Holding Times

- All samples were analyzed within 14 days for preserved water samples.

Surrogate Spike Recoveries

- All samples exhibited acceptable surrogate %R values.

Matrix Spike/Matrix Spike Duplicate (MS/MSD) Recoveries

- The MS/MSD sample exhibited acceptable %R and RPD values.

Laboratory Control Samples

- The LCS samples exhibited acceptable %R values.

Method Blank

- The method blanks were free of contamination.

Field Blank

- Field QC results are summarized below.

Blank ID	Compound	Conc. ug/L	Action Level ug/L	Qualifier	Affected Samples
FB	None - ND	-	-	-	-
TB	None - ND	-	-	-	-

GC/MS Tuning

- All criteria were met.

Initial Calibration

- All %RSD and/or correlation coefficient criteria were met except the following.

ICAL Date	Compound	%RSD/RRF	Qualifier	Affected Samples
11/10/11	Acetone	0.022 RRF	J/R	All Samples
	2-Butanone	0.031 RRF		

Continuing Calibration

- The following table presents compounds that exceeded 20 percent deviation (%D) and/or RRF values <0.05 in the continuing calibration (CCAL). A low RRF indicates poor instrument sensitivity for these compounds. Positive results for these compounds in the affected samples are considered estimated and qualified (J). Non-detect results for these compounds in the affected samples are rejected (R) and are unusable for project objectives. A high %D may indicate a potential high or low bias. All results for these compounds in affected samples are considered estimated and qualified (J/UJ).

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
12/28/11	Acetone	0.025 RRF	None	See ICAL
	2-Butanone	0.035 RRF	None	See ICAL
	Carbon disulfide	39.5%	J/UJ	1-4

CCAL Date	Compound	%D/RRF	Qualifier	Affected Samples
01/03/12	Acetone	0.023 RRF	None	See ICAL
	2-Butanone	0.034 RRF	None	

Compound Quantitation

- All criteria were met.

Internal Standard (IS) Area Performance

- All internal standards met response and retention time (RT) criteria.

Field Duplicate Sample Precision

- Field duplicate results are summarized below.

Compound	RW ug/L	DUP ug/L	RPD	Qualifier
Chloroform	0.10	0.11	10%	None
cis-1,2-Dichloroethylene	0.54	0.59	9%	
Methyl Tert Butyl Ether	0.059	0.059	0%	
Tetrachloroethylene	22.2	23.7	7%	
Trichloroethylene	0.74	0.81	9%	

Package Summary

Please contact the undersigned at (757) 564-0090 if you have any questions or need further information.

Very truly yours,
Environmental Data Services, Inc.

Nancy Weaver 2/15/12

Nancy Weaver Date
Senior Chemist

Data Qualifiers

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

UJ = The analyte was not detected above the sample reporting limit; and the reporting limit is approximate.

U = The analyte was analyzed for, but was not detected above the sample reporting limit.

R = The sample results is rejected due to serious deficiencies. The presence or absence of the analyte cannot be verified.

Raw Data: 1B64078.D

Accutest Laboratories

Report of Analysis

3.1
3

Client Sample ID:	RW		
Lab Sample ID:	JA95756-1	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64078.D	1	12/29/11	MFH	n/a	n/a	V1B2946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND R		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND R		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND UJ		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	0.10		0.50	0.075	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

NW 2/13/12

Report of Analysis

Client Sample ID:	RW		
Lab Sample ID:	JA95756-1	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.54	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.059		0.50	0.058	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	22.2	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	0.74	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	90%		78-114%
460-00-4	4-Bromofluorobenzene	94%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

nws 2/13/12

Raw Data: 1B64081.D

2

Accutest Laboratories

Report of Analysis

3.2 3

Client Sample ID:	DUP		
Lab Sample ID:	JA95756-2	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64081.D	1	12/29/11	MFH	n/a	n/a	V1B2946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND R		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND R		5.0	0.91	ug/l	
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74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
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98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND UJ		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
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67-66-3	Chloroform	0.11		0.50	0.075	ug/l	J
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95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

MW 2/13/12

2

Accutest Laboratories

Report of Analysis

3.2 3

Client Sample ID:	DUP		
Lab Sample ID:	JA95756-2	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.59	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.059		0.50	0.058	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	23.7	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	0.81	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	89%		78-114%
460-00-4	4-Bromofluorobenzene	93%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

MW 2/13/12

Raw Data: 1B64082.D

3

Accutest Laboratories

Report of Analysis

3.3 3

Client Sample ID:	DIST		
Lab Sample ID:	JA95756-3	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64082.D	1	12/29/11	MFH	n/a	n/a	V1B2946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND R		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND R		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	1.5		0.50	0.063	ug/l	
75-25-2	Bromoform	2.7		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND UJ		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	0.39		0.50	0.075	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	3.0		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

MW 2/13/12

3

Accutest Laboratories

Report of Analysis

3.3

Client Sample ID:	DIST		
Lab Sample ID:	JA95756-3	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	89%		78-114%
460-00-4	4-Bromofluorobenzene	93%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

MW 2/13/12

Raw Data: 1B64083.D

4

Accutest Laboratories

Report of Analysis

3.4 C

Client Sample ID:	STEFF		
Lab Sample ID:	JA95756-4	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water Eff	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64083.D	1	12/29/11	MFH	n/a	n/a	V1B2946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND R		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND R		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND UJ		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	ND		0.50	0.075	ug/l	
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

NW 2/13/12

Accutest Laboratories

Report of Analysis

Client Sample ID:	STEFF		
Lab Sample ID:	JA95756-4	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water Eff	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	87%		78-114%
460-00-4	4-Bromofluorobenzene	91%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

NW 2/13/12

Raw Data: 1B64244.D

5

Accutest Laboratories

Report of Analysis

3.5

3

Client Sample ID:	MW-4		
Lab Sample ID:	JA95756-5	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64244.D	1	01/03/12	MFH	n/a	n/a	V1B2953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND R		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND R		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	ND		0.50	0.075	ug/l	
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

MW 2/13/12

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA95756-5	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.42	70	0.50	0.14	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	0.74	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	87%		78-114%
460-00-4	4-Bromofluorobenzene	93%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

nw 2/13/12

Raw Data: 1B64245.D

4

Accutest Laboratories

Report of Analysis

3.6
3

Client Sample ID:	MW-11		
Lab Sample ID:	JA95756-6	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64245.D	1	01/03/12	MFH	n/a	n/a	V1B2953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND R		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND R		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	0.15		0.50	0.075	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

NW 2/13/12

Accutest Laboratories

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	JA95756-6	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	0.55	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	87%		78-114%
460-00-4	4-Bromofluorobenzene	91%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

nw 2/13/12

Raw Data: 1B64247.D

8

Accutest Laboratories

Report of Analysis

3.8 C

Client Sample ID:	TB		
Lab Sample ID:	JA95756-8	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water TB	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64247.D	1	01/03/12	MFH	n/a	n/a	V1B2953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND R		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND R		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	ND		0.50	0.075	ug/l	
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

AW 2/13/12

Accutest Laboratories

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JA95756-8	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water TB	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	89%		78-114%
460-00-4	4-Bromofluorobenzene	94%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

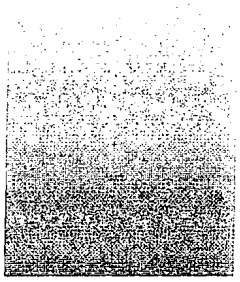
NW 2/13/12

APPENDIX B

LABORATORY ANALYSIS SUMMARY REPORT

New Jersey
ACCUTEST
LABORATORIES

01/08/12



Technical Report for

JAN 11 2012

Environmental Planning and Management

Katonah Q4, Katonah Pump House, Bedford, NY

10001

Accutest Job Number: JA95756

Sampling Date: 12/22/11

Report to:

EPM
1983 Marcus Avenue Suite 109
Lake Success, NY 11042
scherepany@epmco.com

ATTN: Steve Cherepany

Total number of pages in report: **176**

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: Tony Esposito 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

Sections: 1 2 3 4 5 6

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Sample Summary

Environmental Planning and Management

Job No: JA95756

Katonah Q4, Katonah Pump House, Bedford, NY
Project No: 10001

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
JA95756-1	12/22/11	08:45	JR	12/23/11	DW	Drinking Water	RW
JA95756-1D	12/22/11	08:50	JR	12/23/11	DW	Drinking Water Dup.	RW MSD
JA95756-1S	12/22/11	08:50	JR	12/23/11	DW	Drinking Water MS	RW MS
JA95756-2	12/22/11	00:00	JR	12/23/11	DW	Drinking Water	DUP
JA95756-3	12/22/11	09:00	JR	12/23/11	DW	Drinking Water	DIST
JA95756-4	12/22/11	09:10	JR	12/23/11	DW	Drinking Water Eff	STEFF
JA95756-5	12/22/11	09:20	JR	12/23/11	DW	Drinking Water	MW-4
JA95756-6	12/22/11	12:00	JR	12/23/11	DW	Drinking Water	MW-11
JA95756-7	12/22/11	12:30	JR	12/23/11	DW	Drinking Water FB	FB
JA95756-8	12/22/11	12:40	JR	12/23/11	DW	Drinking Water TB	TB

ACCUTEST LABORATORIES

2

CASE NARRATIVE / CONFORMANCE SUMMARY

Client: Environmental Planning and Management **Job No:** JA95756

Site: Katonah Q4, Katonah Pump House, Bedford, NY **Report Date** 1/8/2012 7:22:56 PM

On 12/23/2011, 6 Sample(s), 1 Trip Blank(s) and 1 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 JA95756 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 EPA 524.2 REV 4.1

Matrix: AQ **Batch ID:** V1B2946

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA95756-1MS, JA95756-1MSD were used as the QC samples indicated.

Matrix: AQ **Batch ID:** V1B2953

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) JA95763-1MS, JA95763-2DUP were used as the QC samples indicated.

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

Sample Results

Report of Analysis

Accutest Laboratories

Report of Analysis

Client Sample ID:	RW		
Lab Sample ID:	JA95756-1	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64078.D	1	12/29/11	MFH	n/a	n/a	V1B2946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	0.10		0.50	0.075	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

Report of Analysis

Client Sample ID:	RW		
Lab Sample ID:	JA95756-1	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.54	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.059		0.50	0.058	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	22.2	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	0.74	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	90%		78-114%
460-00-4	4-Bromofluorobenzene	94%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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 Laboratories

Report of Analysis

3.2
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Client Sample ID:	DUP		
Lab Sample ID:	JA95756-2	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64081.D	1	12/29/11	MFH	n/a	n/a	V1B2946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	0.11		0.50	0.075	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	JA95756-2	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.59	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	0.059		0.50	0.058	ug/l	J
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	23.7	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	0.81	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	89%		78-114%
460-00-4	4-Bromofluorobenzene	93%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

Raw Data: 1B64082.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	DIST		
Lab Sample ID:	JA95756-3	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64082.D	1	12/29/11	MFH	n/a	n/a	V1B2946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	1.5		0.50	0.063	ug/l	
75-25-2	Bromoform	2.7		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	0.39		0.50	0.075	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	3.0		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

Report of Analysis

Client Sample ID:	DIST		
Lab Sample ID:	JA95756-3	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	89%		78-114%
460-00-4	4-Bromofluorobenzene	93%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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 Laboratories

Report of Analysis

Client Sample ID:	STEFF		
Lab Sample ID:	JA95756-4	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water Eff	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64083.D	1	12/29/11	MFH	n/a	n/a	V1B2946
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	ND		0.50	0.075	ug/l	
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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 Laboratories

Report of Analysis

3.4

Client Sample ID:	STEFF		
Lab Sample ID:	JA95756-4	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water Eff	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	87%		78-114%
460-00-4	4-Bromofluorobenzene	91%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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 Laboratories

Report of Analysis

3.5

Client Sample ID:	MW-4		
Lab Sample ID:	JA95756-5	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64244.D	1	01/03/12	MFH	n/a	n/a	V1B2953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	ND		0.50	0.075	ug/l	
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

Report of Analysis

Client Sample ID:	MW-4		
Lab Sample ID:	JA95756-5	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.42	70	0.50	0.14	ug/l	J
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	0.74	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	87%		78-114%
460-00-4	4-Bromofluorobenzene	93%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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 Laboratories

Report of Analysis

3.6

Client Sample ID:	MW-11		
Lab Sample ID:	JA95756-6	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64245.D	1	01/03/12	MFH	n/a	n/a	V1B2953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	0.15		0.50	0.075	ug/l	J
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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 Laboratories

Report of Analysis

3.6

Client Sample ID:	MW-11		
Lab Sample ID:	JA95756-6	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	0.55	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	87%		78-114%
460-00-4	4-Bromofluorobenzene	91%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

Raw Data: 1B64246.D

Accutest Laboratories

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JA95756-7	Date Sampled:	12/22/11
Matrix:	DW - Drinking Water FB	Date Received:	12/23/11
Method:	EPA 524.2 REV 4.1	Percent Solids:	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64246.D	1	01/03/12	MFH	n/a	n/a	V1B2953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	ND		0.50	0.075	ug/l	
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

Report of Analysis

Client Sample ID:	FB		
Lab Sample ID:	JA95756-7	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water FB	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	89%		78-114%
460-00-4	4-Bromofluorobenzene	93%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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 Laboratories

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JA95756-8	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water TB	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	1B64247.D	1	01/03/12	MFH	n/a	n/a	V1B2953
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
67-64-1	Acetone	ND		5.0	1.5	ug/l	
78-93-3	2-Butanone	ND		5.0	0.91	ug/l	
71-43-2	Benzene	ND	5.0	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND		0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND		0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND		0.50	0.063	ug/l	
75-25-2	Bromoform	ND		0.50	0.11	ug/l	
74-83-9	Bromomethane	ND		0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND		0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND		0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND		0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND		0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	100	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND		0.50	0.22	ug/l	
67-66-3	Chloroform	ND		0.50	0.075	ug/l	
74-87-3	Chloromethane	ND		0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND		0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND		0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	5.0	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND		0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	7.0	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND		0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	0.20	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.050	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	5.0	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	5.0	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND		0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND		0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND		0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND		0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND		1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND		0.50	0.049	ug/l	

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

Report of Analysis

Client Sample ID:	TB		
Lab Sample ID:	JA95756-8	**Date Sampled:**	12/22/11
Matrix:	DW - Drinking Water TB	**Date Received:**	12/23/11
Method:	EPA 524.2 REV 4.1	**Percent Solids:**	n/a
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

VOA List

CAS No.	Compound	Result	MCL	RL	MDL	Units	Q
95-50-1	o-Dichlorobenzene	ND	600	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	75	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	100	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	70	0.50	0.14	ug/l	
10061-01-5	cis-1,3-Dichloropropene	ND		0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND		0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	700	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND		2.0	0.077	ug/l	
110-54-3	Hexane	ND		0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND		2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND		0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND		0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	5.0	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND		0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND		2.0	0.28	ug/l	
91-20-3	Naphthalene	ND		0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND		0.50	0.064	ug/l	
100-42-5	Styrene	ND	100	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND		0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	200	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND		0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	5.0	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND		0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND		0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	70	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND		0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND		0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	5.0	0.50	0.085	ug/l	
108-88-3	Toluene	ND	1000	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	5.0	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND		1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	2.0	0.50	0.12	ug/l	
	m,p-Xylene	ND		1.0	0.26	ug/l	
95-47-6	o-Xylene	ND		0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	10000	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	89%		78-114%
460-00-4	4-Bromofluorobenzene	94%		77-115%

ND = Not detected MDL - Method Detection Limit
MCL = Maximum Contamination Level (40 CFR 141)
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

JA95756COC

ACCUTEST

Sample Log-In Summary

Lab Name: ACCUTEST Page 1 of 1

Received by (Print Name): M. ORTEGA Log-in Date: 12/23/11

Received by (Signature): M. Ortega

Case Number: N/A

SDG Number:

SAS Number: N/A

REMARKS:

1. Custody Seal(s) Present/Absent* (Present circled)
   Intact/Broken (Intact circled)
2. Custody Seal Numbers: 126
3. Chain-of-Custody Records Present/Absent* (Present circled)
4. Contract Lab Sample Inform. Sheet (CLSIS) Present/Absent* N/A
5. Airbill Airbill/Sticker (Sticker circled) Present/Absent*
6. Airbill No.: 8770 4514 8874
7. Sample Tags Present/Absent* N/A
   Sample Tag Nos. Listed/Not Listed on Chain-of-Custody N/A
8. Sample Condition Intact/Broken*/Leaking (Intact circled)
9. Does Information on custody rec., CLSIS, & sample tags agree — COC + LABELS AGREE
   Yes/No* (Yes circled)
10. Date received at Lab: 12/23/11
11. Time Received: 1030
12. Do aqueous VOC vials have headspace? Yes/No* (No circled)
13. Are preserved voc soil samples fully immersed in preservative? Yes/No* N/A (N/A circled)

Sample Transfer

Fraction:

Area #:

By:

On:

See Internal Chain of Custody

NYSDEC SAMPLE #	CORRESPONDING SAMPLE TAG #	CORRESPONDING ASSIGNED LAB #	REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC.
N/A		JA95756-1	ms/msd ok
N/A		-2	
N/A		-3	
N/A		-4	
N/A		-5	
N/A		-6	
N/A		-7 FB	
N/A		-8 TB	
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			
N/A			

Contract BTSR and attach record of resolution

Reviewed By:

Date:

Logbook No.: N/A

Logbook Page No.: N/A

JA95756: Chain of Custody
Page 2 of 3

ACCUTEST LABORATORIES

Accutest Laboratories Sample Receipt Summary

Accutest Job Number JA95756 **Client:**

Date / Time Received: 12/23/2011 **Project:**

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

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	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 Preservatio	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

4.1 4

JA95756: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Environmental Planning and Management

Job No: JA95756

Katonah Q4, Katonah Pump House, Bedford, NY
Project No: 10001

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JA95756-1 RW	Collected: 22-DEC-11 08:45 By: JR		Received: 23-DEC-11 By: MPC			
JA95756-1	EPA 524.2 REV 4.1	29-DEC-11 05:39	MFH			V524STD
JA95756-2 DUP	Collected: 22-DEC-11 00:00 By: JR		Received: 23-DEC-11 By: MPC			
JA95756-2	EPA 524.2 REV 4.1	29-DEC-11 07:16	MFH			V524STD
JA95756-3 DIST	Collected: 22-DEC-11 09:00 By: JR		Received: 23-DEC-11 By: MPC			
JA95756-3	EPA 524.2 REV 4.1	29-DEC-11 07:48	MFH			V524STD
JA95756-4 STEFF	Collected: 22-DEC-11 09:10 By: JR		Received: 23-DEC-11 By: MPC			
JA95756-4	EPA 524.2 REV 4.1	29-DEC-11 08:16	MFH			V524STD
JA95756-5 MW-4	Collected: 22-DEC-11 09:20 By: JR		Received: 23-DEC-11 By: MPC			
JA95756-5	EPA 524.2 REV 4.1	03-JAN-12 19:00	MFH			V524STD
JA95756-6 MW-11	Collected: 22-DEC-11 12:00 By: JR		Received: 23-DEC-11 By: MPC			
JA95756-6	EPA 524.2 REV 4.1	03-JAN-12 19:32	MFH			V524STD
JA95756-7 FB	Collected: 22-DEC-11 12:30 By: JR		Received: 23-DEC-11 By: MPC			
JA95756-7	EPA 524.2 REV 4.1	03-JAN-12 20:03	MFH			V524STD
JA95756-8 TB	Collected: 22-DEC-11 12:40 By: JR		Received: 23-DEC-11 By: MPC			
JA95756-8	EPA 524.2 REV 4.1	03-JAN-12 20:35	MFH			V524STD

Accutest Internal Chain of Custody

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY
Received: 12/23/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA95756-1.1	Secured Storage	MoHui Huang	12/28/11 16:39	Retrieve from Storage
JA95756-1.1	MoHui Huang	GCMS1B	12/28/11 16:41	Load on Instrument
JA95756-1.1	GCMS1B	MoHui Huang	12/29/11 11:04	Unload from Instrument
JA95756-1.1	MoHui Huang	Secured Storage	12/29/11 11:04	Return to Storage
JA95756-1.2	Secured Storage	MoHui Huang	12/28/11 16:39	Retrieve from Storage
JA95756-1.2	MoHui Huang	GCMS1B	12/28/11 16:41	Load on Instrument
JA95756-1.2	GCMS1B	MoHui Huang	12/29/11 11:04	Unload from Instrument
JA95756-1.2	MoHui Huang	Secured Storage	12/29/11 11:04	Return to Storage
JA95756-1.3	Secured Storage	MoHui Huang	12/28/11 16:39	Retrieve from Storage
JA95756-1.3	MoHui Huang	GCMS1B	12/28/11 16:41	Load on Instrument
JA95756-1.3	GCMS1B	MoHui Huang	12/29/11 11:04	Unload from Instrument
JA95756-1.3	MoHui Huang	Secured Storage	12/29/11 11:04	Return to Storage
JA95756-2.1	Secured Storage	MoHui Huang	12/28/11 16:39	Retrieve from Storage
JA95756-2.1	MoHui Huang	GCMS1B	12/28/11 16:41	Load on Instrument
JA95756-2.1	GCMS1B	MoHui Huang	12/29/11 11:04	Unload from Instrument
JA95756-2.1	MoHui Huang	Secured Storage	12/29/11 11:04	Return to Storage
JA95756-3.1	Secured Storage	MoHui Huang	12/28/11 16:39	Retrieve from Storage
JA95756-3.1	MoHui Huang	GCMS1B	12/28/11 16:41	Load on Instrument
JA95756-3.1	GCMS1B	MoHui Huang	12/29/11 11:04	Unload from Instrument
JA95756-3.1	MoHui Huang	Secured Storage	12/29/11 11:04	Return to Storage
JA95756-4.1	Secured Storage	MoHui Huang	12/28/11 16:39	Retrieve from Storage
JA95756-4.1	MoHui Huang	GCMS1B	12/28/11 16:41	Load on Instrument
JA95756-4.1	GCMS1B	MoHui Huang	12/29/11 11:04	Unload from Instrument
JA95756-4.1	MoHui Huang	Secured Storage	12/29/11 11:04	Return to Storage
JA95756-5.1	Secured Storage	MoHui Huang	12/28/11 16:39	Retrieve from Storage
JA95756-5.1	MoHui Huang	GCMS1B	12/28/11 16:41	Load on Instrument
JA95756-5.1	GCMS1B	MoHui Huang	12/29/11 11:04	Unload from Instrument
JA95756-5.1	MoHui Huang	Secured Storage	12/29/11 11:04	Return to Storage
JA95756-5.1	Secured Storage	MoHui Huang	01/03/12 13:31	Retrieve from Storage
JA95756-5.1	MoHui Huang	GCMS1B	01/03/12 13:31	Load on Instrument
JA95756-5.1	GCMS1B	MoHui Huang	01/04/12 11:54	Unload from Instrument
JA95756-5.1	MoHui Huang	Secured Storage	01/04/12 11:54	Return to Storage
JA95756-6.1	Secured Storage	MoHui Huang	01/03/12 13:31	Retrieve from Storage
JA95756-6.1	MoHui Huang	GCMS1B	01/03/12 13:31	Load on Instrument
JA95756-6.1	GCMS1B	MoHui Huang	01/04/12 11:54	Unload from Instrument
JA95756-6.1	MoHui Huang	Secured Storage	01/04/12 11:54	Return to Storage

Accutest Internal Chain of Custody

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY
Received: 12/23/11

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JA95756-7.1	Secured Storage	MoHui Huang	01/03/12 13:31	Retrieve from Storage
JA95756-7.1	MoHui Huang	GCMS1B	01/03/12 13:31	Load on Instrument
JA95756-7.1	GCMS1B	MoHui Huang	01/04/12 11:54	Unload from Instrument
JA95756-7.1	MoHui Huang	Secured Storage	01/04/12 11:54	Return to Storage
JA95756-8.1	Secured Storage	MoHui Huang	01/03/12 13:31	Retrieve from Storage
JA95756-8.1	MoHui Huang	GCMS1B	01/03/12 13:31	Load on Instrument
JA95756-8.1	GCMS1B	MoHui Huang	01/04/12 11:54	Unload from Instrument
JA95756-8.1	MoHui Huang	Secured Storage	01/04/12 11:54	Return to Storage

Accutest Laboratories Annual Method Detection Limit Determination
Dayton, NJ Facility

Method: EPA 524.2 REV 4.1 (V524.2)
Instrument(s): GCMS1B, GCMS2B, GCMS2E, GCMS3A, GCMS3B, GCMS4D
Analyst: Pooled

Matrix: AQ
Quant Factor: 1.00
Study Period: March,2011

			Replicate Spikes											
Cmpd./Element/Parm. Name	Analysis Date	Spike ug/l	R1 ug/l	R2 ug/l	R3 ug/l	R4 ug/l	R5 ug/l	R6 ug/l	R7 ug/l	X-Bar ug/l	X-Bar %Recov.	STD.Dev. ug/l	MDL	Spike/MDL Ratio
Acetone	25-Feb-11	3	0.73	0.88	0.12	1.57	1.23	0.77	0.47	0.82	27.50	0.476	1.496	2.01
Acrolein	20-Jan-11	5	1.56	2.28	1.59	2.30	2.08	2.29	1.87	2.00	39.93	0.326	1.025	4.88
Acrylonitrile	24-Feb-11	10	10.82	10.50	10.12	10.51	10.89	10.18	10.58	10.52	105.15	0.292	0.919	10.88
Allyl chloride	18-Jan-11	1	0.79	0.99	0.89	0.79	0.89	0.93	0.81	0.87	86.93	0.078	0.244	4.09
Tert Amyl Alcohol	25-Feb-11	5	4.16	4.44	4.32	4.35	4.02	3.65	3.32	4.04	80.74	0.413	1.298	3.85
2-Butanone	24-Feb-11	6	7.62	7.13	7.90	7.69	7.65	7.93	7.34	7.61	126.82	0.290	0.910	6.59
Benzene	24-Feb-11	0.2	0.16	0.17	0.18	0.15	0.16	0.16	0.15	0.16	81.12	0.011	0.034	5.93
Bromobenzene	17-Jan-11	0.2	0.12	0.08	0.11	0.12	0.08	0.08	0.15	0.11	53.00	0.028	0.086	2.31
Bromochloromethane	15-Mar-11	0.5	0.30	0.38	0.43	0.43	0.36	0.35	0.36	0.37	74.76	0.047	0.148	3.39
Bromodichloromethane	20-Jan-11	0.5	0.40	0.36	0.33	0.37	0.35	0.36	0.36	0.36	72.48	0.020	0.063	7.89
Bromoform	20-Jan-11	0.5	0.29	0.34	0.36	0.34	0.37	0.41	0.37	0.35	70.96	0.036	0.113	4.42
Bromomethane	16-Mar-11	2	1.74	1.73	1.79	1.90	1.78	1.73	1.85	1.79	89.42	0.066	0.206	9.69
n-Butylbenzene	15-Mar-11	0.5	0.46	0.46	0.51	0.48	0.42	0.45	0.44	0.46	91.94	0.027	0.086	5.81
sec-Butylbenzene	25-Feb-11	1	1.02	0.99	1.11	0.95	1.00	0.96	0.93	0.99	99.34	0.059	0.187	5.36
tert-Butylbenzene	11-Jan-11	0.2	0.22	0.18	0.20	0.18	0.18	0.21	0.20	0.20	99.10	0.017	0.052	3.85
Carbon disulfide	7-Feb-11	0.2	0.24	0.25	0.24	0.25	0.24	0.22	0.22	0.24	119.05	0.013	0.042	4.78
Chloroacetonitrile	18-Jan-11	5	3.51	3.24	3.18	2.07	2.48	3.49	2.71	2.95	59.09	0.548	1.722	2.90
1-Chlorobutane	24-Feb-11	0.2	0.12	0.08	0.11	0.09	0.11	0.08	0.09	0.10	49.06	0.016	0.049	4.07
Chlorobenzene	20-Jan-11	0.5	0.39	0.37	0.38	0.43	0.41	0.37	0.39	0.39	78.26	0.021	0.067	7.50
Chlorodifluoromethane	15-Mar-11	0.5	0.29	0.33	0.25	0.35	0.25	0.25	0.33	0.29	58.46	0.043	0.136	3.68
Chloroethane	20-Jan-11	2	1.85	1.62	1.77	1.77	1.74	1.76	1.77	1.75	87.70	0.069	0.217	9.20
Chloroform	16-Mar-11	0.2	0.13	0.12	0.11	0.11	0.08	0.15	0.09	0.11	56.05	0.024	0.075	2.67
2-Chloroethyl vinyl ether	25-Feb-11	5	3.86	3.44	3.26	3.29	3.17	3.25	3.28	3.36	67.29	0.231	0.726	6.89
Chloromethane	7-Feb-11	0.2	0.26	0.22	0.29	0.27	0.29	0.24	0.26	0.26	130.26	0.026	0.082	2.44
o-Chlorotoluene	20-Jan-11	0.5	0.38	0.38	0.38	0.38	0.44	0.34	0.38	0.38	76.48	0.029	0.093	5.41
p-Chlorotoluene	16-Mar-11	0.2	0.13	0.15	0.13	0.16	0.16	0.11	0.14	0.14	69.90	0.018	0.058	3.47
Carbon tetrachloride	20-Jan-11	0.5	0.44	0.36	0.42	0.41	0.43	0.39	0.41	0.41	81.42	0.027	0.086	5.81
Cyclohexane	7-Feb-11	0.2	0.23	0.25	0.21	0.23	0.22	0.18	0.20	0.22	108.25	0.024	0.074	2.70
1,1-Dichloroethane	18-Jan-11	1	1.01	1.06	1.04	1.01	1.05	1.05	1.07	1.04	104.08	0.023	0.072	13.81
1,1-Dichloroethylene	20-Jan-11	0.5	0.29	0.37	0.28	0.40	0.39	0.27	0.42	0.35	69.36	0.063	0.197	2.54
1,1-Dichloropropene	15-Mar-11	0.5	0.48	0.43	0.39	0.46	0.38	0.38	0.40	0.42	83.62	0.041	0.127	3.92
1,2-Dibromo-3-chloropropane	20-Jan-11	2	1.65	1.64	1.66	1.78	1.56	1.57	1.64	1.64	82.08	0.074	0.234	8.57
1,2-Dibromoethane	15-Mar-11	0.5	0.45	0.46	0.49	0.51	0.50	0.47	0.49	0.48	96.24	0.022	0.069	7.20
1,2-Dichloroethane	20-Jan-11	0.5	0.37	0.40	0.38	0.34	0.39	0.39	0.41	0.38	76.26	0.023	0.073	6.87
1,2-Dichloropropane	20-Jan-11	0.5	0.31	0.33	0.41	0.39	0.36	0.40	0.34	0.36	72.26	0.038	0.120	4.18
1,3-Dichloropropane	15-Mar-11	0.5	0.50	0.47	0.51	0.51	0.48	0.53	0.54	0.51	101.50	0.023	0.073	6.81
2,2-Dichloropropane	18-Jan-11	1	1.08	1.11	1.06	1.00	1.06	1.01	0.95	1.04	103.70	0.056	0.175	5.71

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: EPA 524.2 REV 4.1 (V524.2)
Instrument(s): GCMS1B, GCMS2B, GCMS2E, GCMS3A, GCMS3B, GCMS4D
Analyst: Pooled

Matrix: AQ
Quant Factor: 1.00
Study Period: March,2011

Cmpd./Element/Parm. Name	Analysis Date	Spike ug/l	Replicate Spikes R1 ug/l	R2 ug/l	R3 ug/l	R4 ug/l	R5 ug/l	R6 ug/l	R7 ug/l	X-Bar ug/l	X-Bar %Recov.	STD.Dev. ug/l	MDL	Spike/MDL Ratio
Dibromochloromethane	20-Jan-11	0.5	0.34	0.34	0.41	0.39	0.41	0.39	0.38	0.38	76.18	0.029	0.092	5.45
Dibromomethane	20-Jan-11	0.5	0.27	0.32	0.29	0.28	0.31	0.36	0.37	0.31	62.74	0.040	0.124	4.03
Dichlorodifluoromethane	18-Jan-11	1	0.61	0.70	0.69	0.70	0.70	0.65	0.53	0.65	65.42	0.062	0.195	5.14
cis-1,3-Dichloropropene	15-Mar-11	0.5	0.44	0.43	0.43	0.49	0.47	0.49	0.48	0.46	92.40	0.027	0.085	5.88
m-Dichlorobenzene	11-Jan-11	0.2	0.20	0.17	0.19	0.18	0.21	0.16	0.18	0.18	91.75	0.016	0.049	4.11
o-Dichlorobenzene	11-Jan-11	0.5	0.45	0.45	0.43	0.43	0.49	0.45	0.43	0.45	89.86	0.022	0.069	7.25
p-Dichlorobenzene	17-Jan-11	0.2	0.14	0.14	0.15	0.16	0.17	0.17	0.12	0.15	75.95	0.020	0.062	3.21
trans-1,2-Dichloroethylene	7-Feb-11	0.2	0.26	0.21	0.20	0.19	0.22	0.26	0.17	0.22	108.85	0.034	0.107	1.87
cis-1,2-Dichloroethylene	18-Jan-11	1	1.03	1.07	1.10	0.97	1.05	1.02	0.98	1.03	103.24	0.046	0.143	7.00
trans-1,3-Dichloropropene	5-Jan-11	0.5	0.47	0.45	0.43	0.46	0.45	0.46	0.43	0.45	90.04	0.016	0.051	9.80
1,1-Dichloropropanone	18-Jan-11	1	1.29	0.98	1.06	1.09	1.20	1.25	1.09	1.14	113.74	0.112	0.353	2.83
Trans-1,4-Dichloro-2-Butene	25-Feb-11	1	0.76	0.89	0.74	0.75	0.75	0.72	0.71	0.76	76.16	0.060	0.189	5.31
Di-Isopropyl ether	16-Feb-11	1	0.82	0.89	0.81	0.80	0.84	0.82	0.79	0.82	82.40	0.033	0.103	9.71
1,4-Dioxane	16-Feb-11	25	19.60	18.95	21.69	27.29	23.91	22.37	16.75	21.51	86.03	3.484	10.951	2.28
Ethylbenzene	16-Mar-11	1	0.96	0.84	0.77	0.82	0.88	0.80	0.82	0.84	83.90	0.064	0.202	4.96
Ethyl tert Butyl Ether	8-Feb-11	0.5	0.51	0.52	0.55	0.57	0.51	0.53	0.56	0.54	107.20	0.024	0.076	6.58
Ethyl Ether	20-Jan-11	0.5	0.46	0.55	0.58	0.61	0.47	0.50	0.42	0.51	102.52	0.069	0.218	2.30
Ethyl methacrylate	15-Mar-11	0.5	0.36	0.45	0.43	0.41	0.35	0.37	0.34	0.39	77.38	0.042	0.130	3.83
Freon 113	16-Mar-11	2	1.52	1.29	1.45	1.50	1.39	1.33	1.50	1.43	71.26	0.093	0.291	6.87
Hexachlorobutadiene	7-Feb-11	0.2	0.23	0.17	0.18	0.19	0.23	0.21	0.20	0.20	100.80	0.024	0.077	2.60
Hexane	15-Mar-11	0.5	0.26	0.16	0.21	0.23	0.15	0.17	0.17	0.19	38.48	0.040	0.126	3.97
Hexachloroethane	15-Mar-11	0.5	0.46	0.45	0.42	0.35	0.39	0.39	0.39	0.41	81.34	0.041	0.127	3.93
2-Hexanone	15-Mar-11	1.5	1.41	1.24	1.23	1.44	1.40	1.25	1.53	1.36	90.54	0.116	0.365	4.11
Iodomethane	15-Mar-11	0.5	0.45	0.40	0.45	0.46	0.45	0.45	0.40	0.44	87.28	0.024	0.075	6.66
Isopropylbenzene	8-Jan-11	2	1.78	1.75	1.76	1.74	1.66	1.65	1.69	1.72	86.06	0.050	0.158	12.63
p-Isopropyltoluene	8-Jan-11	1	0.76	0.76	0.82	0.75	0.78	0.74	0.72	0.76	76.24	0.031	0.096	10.43
Methylene chloride	17-Jan-11	0.2	0.22	0.25	0.22	0.16	0.14	0.17	0.20	0.19	96.60	0.040	0.125	1.61
Methyl Tert Butyl Ether	11-Jan-11	0.5	0.46	0.50	0.47	0.47	0.51	0.46	0.47	0.48	95.48	0.019	0.058	8.61
4-Methyl-2-pentanone	15-Mar-11	1.5	1.62	1.38	1.44	1.49	1.60	1.55	1.47	1.51	100.48	0.088	0.277	5.42
Methacrylonitrile	16-Mar-11	2	2.02	2.06	2.01	2.14	1.87	1.91	2.05	2.01	100.38	0.091	0.287	6.97
Methyl methacrylate	25-Feb-11	1	0.81	0.75	0.73	0.79	0.66	0.70	0.71	0.74	73.53	0.052	0.162	6.18
Methyl Acrylate	8-Jan-11	1	0.58	0.63	0.70	0.63	0.67	0.46	0.47	0.59	59.07	0.093	0.291	3.43
Methyl Acetate	24-Feb-11	2	1.33	0.82	1.41	0.99	1.27	1.12	1.13	1.15	57.58	0.204	0.640	3.13
Methylcyclohexane	18-Jan-11	1	0.87	0.92	0.89	0.74	0.85	0.92	0.84	0.86	86.19	0.062	0.196	5.12
Nitrobenzene	18-Jan-11	10	9.56	9.43	10.03	8.75	8.75	10.03	10.09	9.52	95.21	0.582	1.830	5.46
2-Nitropropane	18-Jan-11	1	1.04	0.99	1.25	1.22	0.79	0.91	1.32	1.08	107.60	0.196	0.615	1.63
Naphthalene	18-Jan-11	1	1.01	1.03	1.10	1.01	1.04	1.09	1.08	1.05	105.09	0.039	0.124	8.06
n-Propylbenzene	17-Jan-11	0.2	0.09	0.14	0.15	0.13	0.15	0.15	0.14	0.14	68.10	0.020	0.064	3.13
Pentachloroethane	20-Jan-11	0.5	0.29	0.30	0.38	0.32	0.34	0.34	0.33	0.33	65.76	0.032	0.099	5.04
Propionitrile	15-Mar-11	5	4.32	4.01	4.09	3.96	3.80	3.67	4.40	4.04	80.71	0.263	0.825	6.06

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

Method: EPA 524.2 REV 4.1 (V524.2)
Instrument(s): GCMS1B, GCMS2B, GCMS2E, GCMS3A, GCMS3B, GCMS4D
Analyst: Pooled

Matrix: AQ
Quant Factor: 1.00
Study Period: March,2011

			Replicate Spikes											
Cmpd./Element/Parm. Name	Analysis Date	Spike ug/l	R1 ug/l	R2 ug/l	R3 ug/l	R4 ug/l	R5 ug/l	R6 ug/l	R7 ug/l	X-Bar ug/l	X-Bar %Recov.	STD.Dev. ug/l	MDL	Spike/MDL Ratio
Styrene	5-Jan-11	0.5	0.42	0.40	0.40	0.42	0.40	0.37	0.40	0.40	79.90	0.017	0.052	9.63
tert-Amyl Methyl Ether	16-Mar-11	1	0.94	0.85	0.84	0.83	0.89	0.87	0.93	0.88	87.87	0.045	0.141	7.11
1,1,1,2-Tetrachloroethane	16-Mar-11	0.2	0.09	0.15	0.13	0.10	0.14	0.11	0.11	0.12	59.15	0.021	0.065	3.07
Tetrahydrofuran	16-Mar-11	1	0.95	0.67	0.75	0.83	0.73	0.65	0.72	0.76	75.80	0.103	0.324	3.09
1,1,1-Trichloroethane	20-Jan-11	0.5	0.38	0.34	0.41	0.39	0.38	0.40	0.40	0.39	77.30	0.025	0.078	6.39
1,1,2,2-Tetrachloroethane	18-Jan-11	1	1.07	1.12	1.13	1.14	1.05	1.09	1.10	1.10	109.96	0.032	0.101	9.93
1,1,2-Trichloroethane	7-Feb-11	0.2	0.26	0.20	0.22	0.24	0.16	0.15	0.21	0.21	102.55	0.039	0.123	1.62
1,2,3-Trichlorobenzene	24-Feb-11	0.2	0.23	0.25	0.25	0.23	0.21	0.22	0.21	0.23	115.03	0.019	0.058	3.43
1,2,3-Trichloropropane	20-Jan-11	0.5	0.32	0.28	0.41	0.16	0.27	0.31	0.27	0.29	58.26	0.075	0.236	2.12
1,2,4-Trichlorobenzene	18-Jan-11	1	1.04	1.07	1.10	1.02	1.08	1.14	1.12	1.08	108.13	0.043	0.136	7.36
1,2,4-Trimethylbenzene	18-Jan-11	1	1.09	1.09	1.09	1.06	1.02	1.07	1.03	1.06	106.26	0.028	0.089	11.29
1,3,5-Trimethylbenzene	8-Jan-11	2	1.79	1.84	1.82	1.75	1.73	1.66	1.75	1.76	88.11	0.060	0.190	10.55
Tetrachloroethylene	20-Jan-11	0.5	0.41	0.41	0.42	0.35	0.39	0.40	0.36	0.39	78.74	0.027	0.085	5.86
Toluene	7-Feb-11	0.2	0.26	0.21	0.24	0.21	0.20	0.23	0.21	0.22	110.50	0.021	0.067	3.01
Trichloroethylene	20-Jan-11	0.5	0.36	0.37	0.37	0.40	0.40	0.40	0.32	0.37	74.96	0.026	0.083	6.05
Trichlorofluoromethane	15-Mar-11	0.5	0.40	0.47	0.44	0.46	0.43	0.47	0.35	0.43	86.20	0.043	0.134	3.74
Tertiary Butyl Alcohol	18-Jan-11	5	5.14	4.58	5.22	4.30	5.33	5.26	4.77	4.94	98.85	0.395	1.241	4.03
Vinyl chloride	8-Feb-11	0.5	0.69	0.68	0.75	0.73	0.68	0.73	0.64	0.70	139.76	0.038	0.120	4.18
m,p-Xylene	25-Feb-11	2	2.04	2.06	2.20	2.01	2.08	2.09	1.93	2.06	102.85	0.083	0.261	7.67
o-Xylene	11-Jan-11	0.2	0.19	0.18	0.16	0.19	0.18	0.17	0.21	0.18	91.05	0.014	0.044	4.52

Detection limits derived using the method described in 40 CFR Part 136, Appendix B

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

Raw Data: 1B64066.D

Method Blank Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2946-MB1	1B64066.D	1	12/28/11	MFH	n/a	n/a	V1B2946

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-1, JA95756-2, JA95756-3, JA95756-4

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	1.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.91	ug/l	
71-43-2	Benzene	ND	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.063	ug/l	
75-25-2	Bromoform	ND	0.50	0.11	ug/l	
74-83-9	Bromomethane	ND	0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND	0.50	0.22	ug/l	
67-66-3	Chloroform	ND	0.50	0.075	ug/l	
74-87-3	Chloromethane	ND	0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND	0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.049	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	

Method Blank Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2946-MB1	1B64066.D	1	12/28/11	MFH	n/a	n/a	V1B2946

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-1, JA95756-2, JA95756-3, JA95756-4

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.077	ug/l	
110-54-3	Hexane	ND	0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.064	ug/l	
100-42-5	Styrene	ND	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.085	ug/l	
108-88-3	Toluene	ND	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.12	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries		Limits
2199-69-1	1,2-Dichlorobenzene-d4	88%	78-114%

Method Blank Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2946-MB1	1B64066.D	1	12/28/11	MFH	n/a	n/a	V1B2946

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-1, JA95756-2, JA95756-3, JA95756-4

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	92%	77-115%

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

Method Blank Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2953-MB1	1B64227.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Compound	Result	RL	MDL	Units	Q
67-64-1	Acetone	ND	5.0	1.5	ug/l	
78-93-3	2-Butanone	ND	5.0	0.91	ug/l	
71-43-2	Benzene	ND	0.50	0.034	ug/l	
108-86-1	Bromobenzene	ND	0.50	0.086	ug/l	
74-97-5	Bromochloromethane	ND	0.50	0.15	ug/l	
75-27-4	Bromodichloromethane	ND	0.50	0.063	ug/l	
75-25-2	Bromoform	ND	0.50	0.11	ug/l	
74-83-9	Bromomethane	ND	0.50	0.21	ug/l	
104-51-8	n-Butylbenzene	ND	0.50	0.086	ug/l	
135-98-8	sec-Butylbenzene	ND	0.50	0.19	ug/l	
98-06-6	tert-Butylbenzene	ND	0.50	0.052	ug/l	
75-15-0	Carbon disulfide	ND	0.50	0.042	ug/l	
108-90-7	Chlorobenzene	ND	0.50	0.067	ug/l	
75-00-3	Chloroethane	ND	0.50	0.22	ug/l	
67-66-3	Chloroform	ND	0.50	0.075	ug/l	
74-87-3	Chloromethane	ND	0.50	0.082	ug/l	
95-49-8	o-Chlorotoluene	ND	0.50	0.093	ug/l	
106-43-4	p-Chlorotoluene	ND	0.50	0.058	ug/l	
56-23-5	Carbon tetrachloride	ND	0.50	0.086	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.072	ug/l	
75-35-4	1,1-Dichloroethylene	ND	0.50	0.20	ug/l	
563-58-6	1,1-Dichloropropene	ND	0.50	0.13	ug/l	
96-12-8	1,2-Dibromo-3-chloropropane	ND	1.0	0.23	ug/l	
106-93-4	1,2-Dibromoethane	ND	0.50	0.069	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.073	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.12	ug/l	
142-28-9	1,3-Dichloropropane	ND	0.50	0.073	ug/l	
594-20-7	2,2-Dichloropropane	ND	0.50	0.18	ug/l	
124-48-1	Dibromochloromethane	ND	0.50	0.092	ug/l	
74-95-3	Dibromomethane	ND	0.50	0.12	ug/l	
75-71-8	Dichlorodifluoromethane	ND	1.0	0.20	ug/l	
541-73-1	m-Dichlorobenzene	ND	0.50	0.049	ug/l	
95-50-1	o-Dichlorobenzene	ND	0.50	0.069	ug/l	
106-46-7	p-Dichlorobenzene	ND	0.50	0.062	ug/l	
156-60-5	trans-1,2-Dichloroethylene	ND	0.50	0.11	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.14	ug/l	

Method Blank Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2953-MB1	1B64227.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Compound	Result	RL	MDL	Units	Q
10061-01-5	cis-1,3-Dichloropropene	ND	0.50	0.085	ug/l	
10061-02-6	trans-1,3-Dichloropropene	ND	0.50	0.051	ug/l	
100-41-4	Ethylbenzene	ND	0.50	0.20	ug/l	
87-68-3	Hexachlorobutadiene	ND	2.0	0.077	ug/l	
110-54-3	Hexane	ND	0.50	0.13	ug/l	
591-78-6	2-Hexanone	ND	2.0	0.37	ug/l	
98-82-8	Isopropylbenzene	ND	0.50	0.16	ug/l	
99-87-6	p-Isopropyltoluene	ND	0.50	0.096	ug/l	
75-09-2	Methylene chloride	ND	0.50	0.13	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	0.50	0.058	ug/l	
108-10-1	4-Methyl-2-pentanone	ND	2.0	0.28	ug/l	
91-20-3	Naphthalene	ND	0.50	0.12	ug/l	
103-65-1	n-Propylbenzene	ND	0.50	0.064	ug/l	
100-42-5	Styrene	ND	0.50	0.052	ug/l	
630-20-6	1,1,1,2-Tetrachloroethane	ND	0.50	0.065	ug/l	
71-55-6	1,1,1-Trichloroethane	ND	0.50	0.078	ug/l	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.50	0.10	ug/l	
79-00-5	1,1,2-Trichloroethane	ND	0.50	0.12	ug/l	
87-61-6	1,2,3-Trichlorobenzene	ND	0.50	0.058	ug/l	
96-18-4	1,2,3-Trichloropropane	ND	0.50	0.24	ug/l	
120-82-1	1,2,4-Trichlorobenzene	ND	0.50	0.14	ug/l	
95-63-6	1,2,4-Trimethylbenzene	ND	0.50	0.089	ug/l	
108-67-8	1,3,5-Trimethylbenzene	ND	0.50	0.19	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.085	ug/l	
108-88-3	Toluene	ND	0.50	0.067	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.083	ug/l	
75-69-4	Trichlorofluoromethane	ND	1.0	0.13	ug/l	
75-01-4	Vinyl chloride	ND	0.50	0.12	ug/l	
	m,p-Xylene	ND	1.0	0.26	ug/l	
95-47-6	o-Xylene	ND	0.50	0.044	ug/l	
1330-20-7	Xylenes (total)	ND	0.50	0.044	ug/l	

CAS No.	Surrogate Recoveries		Limits
2199-69-1	1,2-Dichlorobenzene-d4	93%	78-114%

Method Blank Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2953-MB1	1B64227.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Surrogate Recoveries		Limits
460-00-4	4-Bromofluorobenzene	94%	77-115%

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

Blank Spike Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2946-BS	1B64084.D	1	12/29/11	MFH	n/a	n/a	V1B2946

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-1, JA95756-2, JA95756-3, JA95756-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	20	20.5	103	70-130
78-93-3	2-Butanone	20	19.8	99	70-130
71-43-2	Benzene	5	5.4	108	70-130
108-86-1	Bromobenzene	5	5.0	100	70-130
74-97-5	Bromochloromethane	5	5.3	106	70-130
75-27-4	Bromodichloromethane	5	5.1	102	70-130
75-25-2	Bromoform	5	4.8	96	70-130
74-83-9	Bromomethane	2	2.2	110	70-130
104-51-8	n-Butylbenzene	5	4.7	94	70-130
135-98-8	sec-Butylbenzene	5	4.9	98	70-130
98-06-6	tert-Butylbenzene	5	4.9	98	70-130
75-15-0	Carbon disulfide	5	5.6	112	70-130
108-90-7	Chlorobenzene	5	5.2	104	70-130
75-00-3	Chloroethane	2	2.4	120	70-130
67-66-3	Chloroform	5	5.2	104	70-130
74-87-3	Chloromethane	2	2.2	110	70-130
95-49-8	o-Chlorotoluene	5	5.2	104	70-130
106-43-4	p-Chlorotoluene	5	5.1	102	70-130
56-23-5	Carbon tetrachloride	5	5.1	102	70-130
75-34-3	1,1-Dichloroethane	5	5.2	104	70-130
75-35-4	1,1-Dichloroethylene	5	5.1	102	70-130
563-58-6	1,1-Dichloropropene	5	5.3	106	70-130
96-12-8	1,2-Dibromo-3-chloropropane	5	4.1	82	70-130
106-93-4	1,2-Dibromoethane	5	5.1	102	70-130
107-06-2	1,2-Dichloroethane	5	5.2	104	70-130
78-87-5	1,2-Dichloropropane	5	5.4	108	70-130
142-28-9	1,3-Dichloropropane	5	5.4	108	70-130
594-20-7	2,2-Dichloropropane	5	5.0	100	70-130
124-48-1	Dibromochloromethane	5	5.0	100	70-130
74-95-3	Dibromomethane	5	5.3	106	70-130
75-71-8	Dichlorodifluoromethane	2	1.8	90	70-130
541-73-1	m-Dichlorobenzene	5	5.0	100	70-130
95-50-1	o-Dichlorobenzene	5	5.0	100	70-130
106-46-7	p-Dichlorobenzene	5	5.1	102	70-130
156-60-5	trans-1,2-Dichloroethylene	5	5.2	104	70-130
156-59-2	cis-1,2-Dichloroethylene	5	5.3	106	70-130

Blank Spike Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2946-BS	1B64084.D	1	12/29/11	MFH	n/a	n/a	V1B2946

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-1, JA95756-2, JA95756-3, JA95756-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	5	5.2	104	70-130
10061-02-6	trans-1,3-Dichloropropene	5	5.2	104	70-130
100-41-4	Ethylbenzene	5	5.1	102	70-130
87-68-3	Hexachlorobutadiene	5	4.3	86	70-130
110-54-3	Hexane	5	5.5	110	70-130
591-78-6	2-Hexanone	20	19.2	96	70-130
98-82-8	Isopropylbenzene	5	5.0	100	70-130
99-87-6	p-Isopropyltoluene	5	4.8	96	70-130
75-09-2	Methylene chloride	5	5.1	102	70-130
1634-04-4	Methyl Tert Butyl Ether	10	10.2	102	70-130
108-10-1	4-Methyl-2-pentanone	20	19.6	98	70-130
91-20-3	Naphthalene	5	4.6	92	70-130
103-65-1	n-Propylbenzene	5	5.2	104	70-130
100-42-5	Styrene	5	4.7	94	70-130
630-20-6	1,1,1,2-Tetrachloroethane	5	5.0	100	70-130
71-55-6	1,1,1-Trichloroethane	5	5.0	100	70-130
79-34-5	1,1,2,2-Tetrachloroethane	5	5.4	108	70-130
79-00-5	1,1,2-Trichloroethane	5	5.4	108	70-130
87-61-6	1,2,3-Trichlorobenzene	5	5.1	102	70-130
96-18-4	1,2,3-Trichloropropane	5	5.0	100	70-130
120-82-1	1,2,4-Trichlorobenzene	5	4.7	94	70-130
95-63-6	1,2,4-Trimethylbenzene	5	5.0	100	70-130
108-67-8	1,3,5-Trimethylbenzene	5	5.0	100	70-130
127-18-4	Tetrachloroethylene	5	4.7	94	70-130
108-88-3	Toluene	5	5.3	106	70-130
79-01-6	Trichloroethylene	5	5.2	104	70-130
75-69-4	Trichlorofluoromethane	2	1.9	95	70-130
75-01-4	Vinyl chloride	2	2.2	110	70-130
	m,p-Xylene	10	10.3	103	70-130
95-47-6	o-Xylene	5	5.2	104	70-130
1330-20-7	Xylenes (total)	15	15.5	103	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2199-69-1	1,2-Dichlorobenzene-d4	94%	78-114%

Blank Spike Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2946-BS	1B64084.D	1	12/29/11	MFH	n/a	n/a	V1B2946

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-1, JA95756-2, JA95756-3, JA95756-4

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	96%	77-115%

Blank Spike Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2953-BS	1B64228.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
67-64-1	Acetone	20	22.5	113	70-130
78-93-3	2-Butanone	20	24.7	124	70-130
71-43-2	Benzene	5	5.5	110	70-130
108-86-1	Bromobenzene	5	5.4	108	70-130
74-97-5	Bromochloromethane	5	5.6	112	70-130
75-27-4	Bromodichloromethane	5	5.3	106	70-130
75-25-2	Bromoform	5	5.4	108	70-130
74-83-9	Bromomethane	2	2.4	120	70-130
104-51-8	n-Butylbenzene	5	5.1	102	70-130
135-98-8	sec-Butylbenzene	5	5.3	106	70-130
98-06-6	tert-Butylbenzene	5	5.3	106	70-130
75-15-0	Carbon disulfide	5	5.4	108	70-130
108-90-7	Chlorobenzene	5	5.5	110	70-130
75-00-3	Chloroethane	2	2.4	120	70-130
67-66-3	Chloroform	5	5.2	104	70-130
74-87-3	Chloromethane	2	2.2	110	70-130
95-49-8	o-Chlorotoluene	5	5.4	108	70-130
106-43-4	p-Chlorotoluene	5	5.4	108	70-130
56-23-5	Carbon tetrachloride	5	5.4	108	70-130
75-34-3	1,1-Dichloroethane	5	5.3	106	70-130
75-35-4	1,1-Dichloroethylene	5	5.4	108	70-130
563-58-6	1,1-Dichloropropene	5	5.4	108	70-130
96-12-8	1,2-Dibromo-3-chloropropane	5	4.7	94	70-130
106-93-4	1,2-Dibromoethane	5	5.4	108	70-130
107-06-2	1,2-Dichloroethane	5	5.2	104	70-130
78-87-5	1,2-Dichloropropane	5	5.5	110	70-130
142-28-9	1,3-Dichloropropane	5	5.5	110	70-130
594-20-7	2,2-Dichloropropane	5	5.0	100	70-130
124-48-1	Dibromochloromethane	5	5.3	106	70-130
74-95-3	Dibromomethane	5	5.4	108	70-130
75-71-8	Dichlorodifluoromethane	2	2.4	120	70-130
541-73-1	m-Dichlorobenzene	5	5.3	106	70-130
95-50-1	o-Dichlorobenzene	5	5.3	106	70-130
106-46-7	p-Dichlorobenzene	5	5.3	106	70-130
156-60-5	trans-1,2-Dichloroethylene	5	5.2	104	70-130
156-59-2	cis-1,2-Dichloroethylene	5	5.4	108	70-130

Blank Spike Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2953-BS	1B64228.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
10061-01-5	cis-1,3-Dichloropropene	5	5.4	108	70-130
10061-02-6	trans-1,3-Dichloropropene	5	5.5	110	70-130
100-41-4	Ethylbenzene	5	5.3	106	70-130
87-68-3	Hexachlorobutadiene	5	4.5	90	70-130
110-54-3	Hexane	5	6.0	120	70-130
591-78-6	2-Hexanone	20	24.0	120	70-130
98-82-8	Isopropylbenzene	5	5.4	108	70-130
99-87-6	p-Isopropyltoluene	5	5.2	104	70-130
75-09-2	Methylene chloride	5	5.3	106	70-130
1634-04-4	Methyl Tert Butyl Ether	10	10.7	107	70-130
108-10-1	4-Methyl-2-pentanone	20	23.7	119	70-130
91-20-3	Naphthalene	5	4.8	96	70-130
103-65-1	n-Propylbenzene	5	5.4	108	70-130
100-42-5	Styrene	5	5.0	100	70-130
630-20-6	1,1,1,2-Tetrachloroethane	5	5.3	106	70-130
71-55-6	1,1,1-Trichloroethane	5	5.2	104	70-130
79-34-5	1,1,2,2-Tetrachloroethane	5	5.6	112	70-130
79-00-5	1,1,2-Trichloroethane	5	5.6	112	70-130
87-61-6	1,2,3-Trichlorobenzene	5	5.0	100	70-130
96-18-4	1,2,3-Trichloropropane	5	5.4	108	70-130
120-82-1	1,2,4-Trichlorobenzene	5	5.1	102	70-130
95-63-6	1,2,4-Trimethylbenzene	5	5.3	106	70-130
108-67-8	1,3,5-Trimethylbenzene	5	5.3	106	70-130
127-18-4	Tetrachloroethylene	5	5.0	100	70-130
108-88-3	Toluene	5	5.5	110	70-130
79-01-6	Trichloroethylene	5	5.4	108	70-130
75-69-4	Trichlorofluoromethane	2	2.2	110	70-130
75-01-4	Vinyl chloride	2	2.4	120	70-130
	m,p-Xylene	10	10.9	109	70-130
95-47-6	o-Xylene	5	5.3	106	70-130
1330-20-7	Xylenes (total)	15	16.3	109	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2199-69-1	1,2-Dichlorobenzene-d4	99%	78-114%

Blank Spike Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V1B2953-BS	1B64228.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Surrogate Recoveries	BSP	Limits
460-00-4	4-Bromofluorobenzene	99%	77-115%

Raw Data: 1B64239.D

Matrix Spike Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA95763-1MS	1B64239.D	1	01/03/12	MFH	n/a	n/a	V1B2953
JA95763-1	1B64234.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Compound	JA95763-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
67-64-1	Acetone	ND		20	22.3	112	41-142
78-93-3	2-Butanone	ND		20	22.7	114	55-129
71-43-2	Benzene	ND		5	5.6	112	53-138
108-86-1	Bromobenzene	ND		5	5.0	100	54-138
74-97-5	Bromochloromethane	ND		5	5.3	106	55-140
75-27-4	Bromodichloromethane	ND		5	4.8	96	57-147
75-25-2	Bromoform	ND		5	3.9	78	47-137
74-83-9	Bromomethane	ND		2	2.3	115	40-162
104-51-8	n-Butylbenzene	ND		5	5.2	104	45-144
135-98-8	sec-Butylbenzene	ND		5	5.5	110	46-145
98-06-6	tert-Butylbenzene	ND		5	5.3	106	48-141
75-15-0	Carbon disulfide	ND		5	5.3	106	35-127
108-90-7	Chlorobenzene	ND		5	5.4	108	54-135
75-00-3	Chloroethane	ND		2	2.5	125	38-153
67-66-3	Chloroform	ND		5	5.2	104	57-151
74-87-3	Chloromethane	ND		2	2.3	115	39-165
95-49-8	o-Chlorotoluene	ND		5	5.3	106	55-142
106-43-4	p-Chlorotoluene	ND		5	5.2	104	55-139
56-23-5	Carbon tetrachloride	ND		5	6.2	124	49-170
75-34-3	1,1-Dichloroethane	ND		5	5.4	108	55-149
75-35-4	1,1-Dichloroethylene	ND		5	6.2	124	42-142
563-58-6	1,1-Dichloropropene	ND		5	6.0	120	46-151
96-12-8	1,2-Dibromo-3-chloropropane	ND		5	4.5	90	48-141
106-93-4	1,2-Dibromoethane	ND		5	5.2	104	57-135
107-06-2	1,2-Dichloroethane	ND		5	4.9	98	59-166
78-87-5	1,2-Dichloropropane	ND		5	5.3	106	53-142
142-28-9	1,3-Dichloropropane	ND		5	5.2	104	58-143
594-20-7	2,2-Dichloropropane	ND		5	5.5	110	38-165
124-48-1	Dibromochloromethane	ND		5	4.4	88	55-138
74-95-3	Dibromomethane	ND		5	5.2	104	61-144
75-71-8	Dichlorodifluoromethane	ND		2	3.0	150	23-172
541-73-1	m-Dichlorobenzene	ND		5	5.1	102	53-138
95-50-1	o-Dichlorobenzene	ND		5	5.0	100	54-140
106-46-7	p-Dichlorobenzene	ND		5	5.1	102	53-137
156-60-5	trans-1,2-Dichloroethylene	ND		5	5.4	108	47-148
156-59-2	cis-1,2-Dichloroethylene	ND		5	5.5	110	51-146

Matrix Spike Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA95763-1MS	1B64239.D	1	01/03/12	MFH	n/a	n/a	V1B2953
JA95763-1	1B64234.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Compound	JA95763-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Limits
10061-01-5	cis-1,3-Dichloropropene	ND		5	4.9	98	51-136
10061-02-6	trans-1,3-Dichloropropene	ND		5	4.7	94	54-142
100-41-4	Ethylbenzene	ND		5	5.2	104	51-138
87-68-3	Hexachlorobutadiene	ND		5	5.2	104	40-154
110-54-3	Hexane	ND		5	5.7	114	22-142
591-78-6	2-Hexanone	ND		20	22.0	110	53-128
98-82-8	Isopropylbenzene	ND		5	5.3	106	49-139
99-87-6	p-Isopropyltoluene	ND		5	4.9	98	45-141
75-09-2	Methylene chloride	ND		5	5.1	102	54-137
1634-04-4	Methyl Tert Butyl Ether	ND		5	5.0	100	53-143
108-10-1	4-Methyl-2-pentanone	ND		20	21.5	108	58-127
91-20-3	Naphthalene	ND		5	4.1	82	44-140
103-65-1	n-Propylbenzene	ND		5	5.3	106	50-142
100-42-5	Styrene	ND		5	2.7	54	23-130
630-20-6	1,1,1,2-Tetrachloroethane	ND		5	5.1	102	57-144
71-55-6	1,1,1-Trichloroethane	ND		5	5.7	114	52-164
79-34-5	1,1,2,2-Tetrachloroethane	ND		5	5.4	108	58-138
79-00-5	1,1,2-Trichloroethane	ND		5	5.4	108	59-139
87-61-6	1,2,3-Trichlorobenzene	ND		5	4.4	88	47-141
96-18-4	1,2,3-Trichloropropane	ND		5	5.2	104	56-148
120-82-1	1,2,4-Trichlorobenzene	ND		5	4.6	92	46-137
95-63-6	1,2,4-Trimethylbenzene	ND		5	3.8	76	41-138
108-67-8	1,3,5-Trimethylbenzene	ND		5	3.7	74	45-138
127-18-4	Tetrachloroethylene	ND		5	5.7	114	45-145
108-88-3	Toluene	ND		5	5.3	106	52-134
79-01-6	Trichloroethylene	ND		5	5.7	114	54-143
75-69-4	Trichlorofluoromethane	ND		2	2.6	130	36-167
75-01-4	Vinyl chloride	ND		2	2.5	125	35-162
	m,p-Xylene	ND		10	9.6	96	49-135
95-47-6	o-Xylene	ND		5	4.7	94	49-134
1330-20-7	Xylenes (total)	ND		15	14.3	95	50-134

CAS No.	Surrogate Recoveries	MS	JA95763-1	Limits
2199-69-1	1,2-Dichlorobenzene-d4	98%	92%	78-114%

Matrix Spike Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA95763-1MS	1B64239.D	1	01/03/12	MFH	n/a	n/a	V1B2953
JA95763-1	1B64234.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Surrogate Recoveries	MS	JA95763-1	Limits
460-00-4	4-Bromofluorobenzene	97%	92%	77-115%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA95756-1MS	1B64079.D	1	12/29/11	MFH	n/a	n/a	V1B2946
JA95756-1MSD	1B64080.D	1	12/29/11	MFH	n/a	n/a	V1B2946
JA95756-1	1B64078.D	1	12/29/11	MFH	n/a	n/a	V1B2946

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-1, JA95756-2, JA95756-3, JA95756-4

CAS No.	Compound	JA95756-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
67-64-1	Acetone	ND		20	21.1	106	20.9	105	1	41-142/24
78-93-3	2-Butanone	ND		20	20.7	104	20.2	101	2	55-129/31
71-43-2	Benzene	ND		5	5.9	118	6.1	122	3	53-138/16
108-86-1	Bromobenzene	ND		5	5.4	108	5.4	108	0	54-138/17
74-97-5	Bromochloromethane	ND		5	5.5	110	5.7	114	4	55-140/13
75-27-4	Bromodichloromethane	ND		5	5.5	110	5.6	112	2	57-147/11
75-25-2	Bromoform	ND		5	4.6	92	4.7	94	2	47-137/13
74-83-9	Bromomethane	ND		2	2.2	110	2.2	110	0	40-162/27
104-51-8	n-Butylbenzene	ND		5	4.9	98	5.0	100	2	45-144/19
135-98-8	sec-Butylbenzene	ND		5	5.3	106	5.4	108	2	46-145/20
98-06-6	tert-Butylbenzene	ND		5	5.3	106	5.4	108	2	48-141/17
75-15-0	Carbon disulfide	ND		5	5.9	118	6.1	122	3	35-127/32
108-90-7	Chlorobenzene	ND		5	5.7	114	5.8	116	2	54-135/15
75-00-3	Chloroethane	ND		2	2.2	110	2.4	120	9	38-153/43
67-66-3	Chloroform	0.10	J	5	5.8	114	5.9	116	2	57-151/13
74-87-3	Chloromethane	ND		2	2.2	110	2.2	110	0	39-165/35
95-49-8	o-Chlorotoluene	ND		5	5.5	110	5.6	112	2	55-142/15
106-43-4	p-Chlorotoluene	ND		5	5.5	110	5.6	112	2	55-139/20
56-23-5	Carbon tetrachloride	ND		5	5.8	116	5.9	118	2	49-170/24
75-34-3	1,1-Dichloroethane	ND		5	5.9	118	6.0	120	2	55-149/13
75-35-4	1,1-Dichloroethylene	ND		5	6.0	120	6.0	120	0	42-142/20
563-58-6	1,1-Dichloropropene	ND		5	6.0	120	6.3	126	5	46-151/21
96-12-8	1,2-Dibromo-3-chloropropane	ND		5	4.3	86	4.2	84	2	48-141/27
106-93-4	1,2-Dibromoethane	ND		5	5.4	108	5.4	108	0	57-135/10
107-06-2	1,2-Dichloroethane	ND		5	5.6	112	5.5	110	2	59-166/15
78-87-5	1,2-Dichloropropane	ND		5	5.8	116	6.0	120	3	53-142/11
142-28-9	1,3-Dichloropropane	ND		5	5.6	112	5.7	114	2	58-143/13
594-20-7	2,2-Dichloropropane	ND		5	4.3	86	4.4	88	2	38-165/19
124-48-1	Dibromochloromethane	ND		5	5.1	102	5.0	100	2	55-138/15
74-95-3	Dibromomethane	ND		5	5.5	110	5.5	110	0	61-144/10
75-71-8	Dichlorodifluoromethane	ND		2	1.9	95	2.0	100	5	23-172/30
541-73-1	m-Dichlorobenzene	ND		5	5.3	106	5.4	108	2	53-138/17
95-50-1	o-Dichlorobenzene	ND		5	5.3	106	5.4	108	2	54-140/11
106-46-7	p-Dichlorobenzene	ND		5	5.4	108	5.4	108	0	53-137/14
156-60-5	trans-1,2-Dichloroethylene	ND		5	5.9	118	6.1	122	3	47-148/22
156-59-2	cis-1,2-Dichloroethylene	0.54		5	6.3	115	6.4	117	2	51-146/14

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA95756-1MS	1B64079.D	1	12/29/11	MFH	n/a	n/a	V1B2946
JA95756-1MSD	1B64080.D	1	12/29/11	MFH	n/a	n/a	V1B2946
JA95756-1	1B64078.D	1	12/29/11	MFH	n/a	n/a	V1B2946

5.4.1

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-1, JA95756-2, JA95756-3, JA95756-4

CAS No.	Compound	JA95756-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
10061-01-5	cis-1,3-Dichloropropene	ND		5	5.2	104	5.3	106	2	51-136/11
10061-02-6	trans-1,3-Dichloropropene	ND		5	5.1	102	5.1	102	0	54-142/10
100-41-4	Ethylbenzene	ND		5	5.6	112	5.7	114	2	51-138/18
87-68-3	Hexachlorobutadiene	ND		5	4.0	80	4.2	84	5	40-154/21
110-54-3	Hexane	ND		5	4.3	86	4.3	86	0	22-142/42
591-78-6	2-Hexanone	ND		20	19.5	98	19.4	97	1	53-128/29
98-82-8	Isopropylbenzene	ND		5	5.4	108	5.6	112	4	49-139/16
99-87-6	p-Isopropyltoluene	ND		5	5.1	102	5.2	104	2	45-141/17
75-09-2	Methylene chloride	ND		5	5.6	112	5.6	112	0	54-137/14
1634-04-4	Methyl Tert Butyl Ether	0.059	J	5	5.5	109	5.6	111	2	53-143/10
108-10-1	4-Methyl-2-pentanone	ND		20	19.5	98	19.6	98	1	58-127/32
91-20-3	Naphthalene	ND		5	4.2	84	4.3	86	2	44-140/14
103-65-1	n-Propylbenzene	ND		5	5.6	112	5.7	114	2	50-142/20
100-42-5	Styrene	ND		5	4.1	82	4.1	82	0	23-130/20
630-20-6	1,1,1,2-Tetrachloroethane	ND		5	5.4	108	5.4	108	0	57-144/11
71-55-6	1,1,1-Trichloroethane	ND		5	5.8	116	6.0	120	3	52-164/13
79-34-5	1,1,2,2-Tetrachloroethane	ND		5	5.6	112	5.6	112	0	58-138/10
79-00-5	1,1,2-Trichloroethane	ND		5	5.7	114	5.8	116	2	59-139/11
87-61-6	1,2,3-Trichlorobenzene	ND		5	4.6	92	4.7	94	2	47-141/17
96-18-4	1,2,3-Trichloropropane	ND		5	5.3	106	5.2	104	2	56-148/15
120-82-1	1,2,4-Trichlorobenzene	ND		5	4.7	94	4.8	96	2	46-137/17
95-63-6	1,2,4-Trimethylbenzene	ND		5	4.7	94	4.8	96	2	41-138/16
108-67-8	1,3,5-Trimethylbenzene	ND		5	5.2	104	5.2	104	0	45-138/16
127-18-4	Tetrachloroethylene	22.2		5	24.5	46	25.1	58	2	45-145/19
108-88-3	Toluene	ND		5	5.8	116	6.0	120	3	52-134/19
79-01-6	Trichloroethylene	0.74		5	6.5	115	6.7	119	3	54-143/15
75-69-4	Trichlorofluoromethane	ND		2	2.0	100	2.0	100	0	36-167/28
75-01-4	Vinyl chloride	ND		2	2.2	110	2.2	110	0	35-162/30
	m,p-Xylene	ND		10	10.9	109	11.3	113	4	49-135/18
95-47-6	o-Xylene	ND		5	5.5	110	5.6	112	2	49-134/19
1330-20-7	Xylenes (total)	ND		15	16.4	109	16.9	113	3	50-134/18

CAS No.	Surrogate Recoveries	MS	MSD	JA95756-1	Limits
2199-69-1	1,2-Dichlorobenzene-d4	94%	94%	90%	78-114%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA95756-1MS	1B64079.D	1	12/29/11	MFH	n/a	n/a	V1B2946
JA95756-1MSD	1B64080.D	1	12/29/11	MFH	n/a	n/a	V1B2946
JA95756-1	1B64078.D	1	12/29/11	MFH	n/a	n/a	V1B2946

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-1, JA95756-2, JA95756-3, JA95756-4

CAS No.	Surrogate Recoveries	MS	MSD	JA95756-1	Limits
460-00-4	4-Bromofluorobenzene	94%	95%	94%	77-115%

Raw Data: 1B64240.D

Duplicate Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA95763-2DUP	1B64240.D	1	01/03/12	MFH	n/a	n/a	V1B2953
JA95763-2	1B64235.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Compound	JA95763-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
67-64-1	Acetone	ND		ND		nc	10
78-93-3	2-Butanone	ND		ND		nc	12
71-43-2	Benzene	ND		ND		nc	10
108-86-1	Bromobenzene	ND		ND		nc	10
74-97-5	Bromochloromethane	ND		ND		nc	10
75-27-4	Bromodichloromethane	ND		ND		nc	10
75-25-2	Bromoform	ND		ND		nc	10
74-83-9	Bromomethane	ND		ND		nc	10
104-51-8	n-Butylbenzene	ND		ND		nc	10
135-98-8	sec-Butylbenzene	ND		ND		nc	10
98-06-6	tert-Butylbenzene	ND		ND		nc	10
75-15-0	Carbon disulfide	ND		ND		nc	19
108-90-7	Chlorobenzene	ND		ND		nc	10
75-00-3	Chloroethane	ND		ND		nc	10
67-66-3	Chloroform	ND		ND		nc	12
74-87-3	Chloromethane	ND		ND		nc	10
95-49-8	o-Chlorotoluene	ND		ND		nc	10
106-43-4	p-Chlorotoluene	ND		ND		nc	10
56-23-5	Carbon tetrachloride	ND		ND		nc	10
75-34-3	1,1-Dichloroethane	ND		ND		nc	10
75-35-4	1,1-Dichloroethylene	ND		ND		nc	10
563-58-6	1,1-Dichloropropene	ND		ND		nc	10
96-12-8	1,2-Dibromo-3-chloropropane	ND		ND		nc	10
106-93-4	1,2-Dibromoethane	ND		ND		nc	10
107-06-2	1,2-Dichloroethane	ND		ND		nc	10
78-87-5	1,2-Dichloropropane	ND		ND		nc	10
142-28-9	1,3-Dichloropropane	ND		ND		nc	10
594-20-7	2,2-Dichloropropane	ND		ND		nc	10
124-48-1	Dibromochloromethane	ND		ND		nc	10
74-95-3	Dibromomethane	ND		ND		nc	10
75-71-8	Dichlorodifluoromethane	ND		ND		nc	10
541-73-1	m-Dichlorobenzene	ND		ND		nc	10
95-50-1	o-Dichlorobenzene	ND		ND		nc	10
106-46-7	p-Dichlorobenzene	ND		ND		nc	10
156-60-5	trans-1,2-Dichloroethylene	ND		ND		nc	10
156-59-2	cis-1,2-Dichloroethylene	ND		ND		nc	10

Duplicate Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA95763-2DUP	1B64240.D	1	01/03/12	MFH	n/a	n/a	V1B2953
JA95763-2	1B64235.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Compound	JA95763-2 ug/l	Q	DUP ug/l	Q	RPD	Limits
10061-01-5	cis-1,3-Dichloropropene	ND		ND		nc	10
10061-02-6	trans-1,3-Dichloropropene	ND		ND		nc	10
100-41-4	Ethylbenzene	ND		ND		nc	10
87-68-3	Hexachlorobutadiene	ND		ND		nc	10
110-54-3	Hexane	ND		ND		nc	10
591-78-6	2-Hexanone	ND		ND		nc	10
98-82-8	Isopropylbenzene	ND		ND		nc	10
99-87-6	p-Isopropyltoluene	ND		ND		nc	10
75-09-2	Methylene chloride	ND		ND		nc	10
1634-04-4	Methyl Tert Butyl Ether	ND		ND		nc	10
108-10-1	4-Methyl-2-pentanone	ND		ND		nc	10
91-20-3	Naphthalene	ND		ND		nc	10
103-65-1	n-Propylbenzene	ND		ND		nc	10
100-42-5	Styrene	ND		ND		nc	10
630-20-6	1,1,1,2-Tetrachloroethane	ND		ND		nc	10
71-55-6	1,1,1-Trichloroethane	ND		ND		nc	10
79-34-5	1,1,2,2-Tetrachloroethane	ND		ND		nc	10
79-00-5	1,1,2-Trichloroethane	ND		ND		nc	10
87-61-6	1,2,3-Trichlorobenzene	ND		ND		nc	10
96-18-4	1,2,3-Trichloropropane	ND		ND		nc	10
120-82-1	1,2,4-Trichlorobenzene	ND		ND		nc	10
95-63-6	1,2,4-Trimethylbenzene	ND		ND		nc	10
108-67-8	1,3,5-Trimethylbenzene	ND		ND		nc	10
127-18-4	Tetrachloroethylene	ND		ND		nc	10
108-88-3	Toluene	ND		ND		nc	10
79-01-6	Trichloroethylene	ND		ND		nc	10
75-69-4	Trichlorofluoromethane	ND		ND		nc	10
75-01-4	Vinyl chloride	ND		ND		nc	10
	m,p-Xylene	ND		ND		nc	10
95-47-6	o-Xylene	ND		ND		nc	10
1330-20-7	Xylenes (total)	ND		ND		nc	10

CAS No.	Surrogate Recoveries	DUP	JA95763-2	Limits
2199-69-1	1,2-Dichlorobenzene-d4	90%	90%	78-114%

Duplicate Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
JA95763-2DUP	1B64240.D	1	01/03/12	MFH	n/a	n/a	V1B2953
JA95763-2	1B64235.D	1	01/03/12	MFH	n/a	n/a	V1B2953

The QC reported here applies to the following samples: Method: EPA 524.2 REV 4.1

JA95756-5, JA95756-6, JA95756-7, JA95756-8

CAS No.	Surrogate Recoveries	DUP	JA95763-2	Limits
460-00-4	4-Bromofluorobenzene	93%	93%	77-115%

Instrument Performance Check (BFB)

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample:	V1B2865-BFB	Injection Date:	11/10/11
Lab File ID:	1B62291.D	Injection Time:	09:41
Instrument ID:	GCMS1B		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	2287	16.8		Pass
75	30.0 - 80.0% of mass 95	6294	46.3		Pass
95	Base peak, 100% relative abundance	13597	100.0		Pass
96	5.0 - 9.0% of mass 95	975	7.17		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	10111	74.4		Pass
175	5.0 - 9.0% of mass 174	809	5.95	(8.00) [a]	Pass
176	95.0 - 101.0% of mass 174	9931	73.0	(98.2) [a]	Pass
177	5.0 - 9.0% of mass 176	684	5.03	(6.89) [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
V1B2865-IC2865	1B62292.D	11/10/11	10:14	00:33	Initial cal 0.5
V1B2865-IC2865	1B62293.D	11/10/11	10:46	01:05	Initial cal 1
V1B2865-IC2865	1B62294.D	11/10/11	11:18	01:37	Initial cal 2
V1B2865-IC2865	1B62295.D	11/10/11	11:50	02:09	Initial cal 5
V1B2865-ICC2865	1B62296.D	11/10/11	12:22	02:41	Initial cal 10
V1B2865-IC2865	1B62297.D	11/10/11	12:54	03:13	Initial cal 20
V1B2865-IC2865	1B62298.D	11/10/11	13:26	03:45	Initial cal 40
V1B2865-ICV2865	1B62300.D	11/10/11	14:30	04:49	Initial cal verification 10

Instrument Performance Check (BFB)

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample:	V1B2946-BFB	Injection Date:	12/28/11
Lab File ID:	1B64064.D	Injection Time:	22:11
Instrument ID:	GCMS1B		

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	1653	16.2		Pass
75	30.0 - 80.0% of mass 95	4488	44.0		Pass
95	Base peak, 100% relative abundance	10211	100.0		Pass
96	5.0 - 9.0% of mass 95	752	7.36		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	7394	72.4		Pass
175	5.0 - 9.0% of mass 174	567	5.55	(7.67) [a]	Pass
176	95.0 - 101.0% of mass 174	7070	69.2	(95.6) [a]	Pass
177	5.0 - 9.0% of mass 176	475	4.65	(6.72) [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
V1B2946-CC2865	1B64065.D	12/28/11	22:43	00:32	Continuing cal 10
V1B2946-MB1	1B64066.D	12/28/11	23:15	01:04	Method Blank
ZZZZZZ	1B64068.D	12/29/11	00:19	02:08	(unrelated sample)
ZZZZZZ	1B64069.D	12/29/11	00:51	02:40	(unrelated sample)
ZZZZZZ	1B64070.D	12/29/11	01:23	03:12	(unrelated sample)
ZZZZZZ	1B64071.D	12/29/11	01:55	03:44	(unrelated sample)
ZZZZZZ	1B64072.D	12/29/11	02:27	04:16	(unrelated sample)
ZZZZZZ	1B64073.D	12/29/11	02:59	04:48	(unrelated sample)
ZZZZZZ	1B64074.D	12/29/11	03:31	05:20	(unrelated sample)
ZZZZZZ	1B64075.D	12/29/11	04:03	05:52	(unrelated sample)
ZZZZZZ	1B64076.D	12/29/11	04:35	06:24	(unrelated sample)
ZZZZZZ	1B64077.D	12/29/11	05:07	06:56	(unrelated sample)
JA95756-1	1B64078.D	12/29/11	05:39	07:28	RW
JA95756-1MS	1B64079.D	12/29/11	06:11	08:00	Matrix Spike
JA95756-1MSD	1B64080.D	12/29/11	06:43	08:32	Matrix Spike Duplicate
JA95756-2	1B64081.D	12/29/11	07:16	09:05	DUP
JA95756-3	1B64082.D	12/29/11	07:48	09:37	DIST
JA95756-4	1B64083.D	12/29/11	08:16	10:05	STEFF
V1B2946-BS	1B64084.D	12/29/11	08:46	10:35	Blank Spike
ZZZZZZ	1B64085.D	12/29/11	09:18	11:07	(unrelated sample)

Raw Data: 1B64225.D

Instrument Performance Check (BFB)

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample:	V1B2953-BFB	Injection Date:	01/03/12
Lab File ID:	1B64225.D	Injection Time:	08:52
Instrument ID:	GCMS1B		

5.6.3 5

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
50	15.0 - 40.0% of mass 95	1484	15.4		Pass
75	30.0 - 80.0% of mass 95	4245	43.9		Pass
95	Base peak, 100% relative abundance	9663	100.0		Pass
96	5.0 - 9.0% of mass 95	703	7.28		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 120.0% of mass 95	7217	74.7		Pass
175	5.0 - 9.0% of mass 174	476	4.93	(6.60) [a]	Pass
176	95.0 - 101.0% of mass 174	7020	72.6	(97.3) [a]	Pass
177	5.0 - 9.0% of mass 176	455	4.71	(6.48) [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
V1B2953-CC2865	1B64226.D	01/03/12	09:26	00:34	Continuing cal 5
V1B2953-MB1	1B64227.D	01/03/12	10:00	01:08	Method Blank
V1B2953-BS	1B64228.D	01/03/12	10:35	01:43	Blank Spike
ZZZZZZ	1B64229.D	01/03/12	11:09	02:17	(unrelated sample)
ZZZZZZ	1B64230.D	01/03/12	11:41	02:49	(unrelated sample)
ZZZZZZ	1B64231.D	01/03/12	12:13	03:21	(unrelated sample)
ZZZZZZ	1B64232.D	01/03/12	12:42	03:50	(unrelated sample)
ZZZZZZ	1B64233.D	01/03/12	13:11	04:19	(unrelated sample)
JA95763-1	1B64234.D	01/03/12	13:41	04:49	(used for QC only; not part of job JA95756)
JA95763-2	1B64235.D	01/03/12	14:13	05:21	(used for QC only; not part of job JA95756)
ZZZZZZ	1B64236.D	01/03/12	14:42	05:50	(unrelated sample)
ZZZZZZ	1B64237.D	01/03/12	15:14	06:22	(unrelated sample)
ZZZZZZ	1B64238.D	01/03/12	15:43	06:51	(unrelated sample)
JA95763-1MS	1B64239.D	01/03/12	16:15	07:23	Matrix Spike
JA95763-2DUP	1B64240.D	01/03/12	16:46	07:54	Duplicate
ZZZZZZ	1B64241.D	01/03/12	17:15	08:23	(unrelated sample)
ZZZZZZ	1B64242.D	01/03/12	17:56	09:04	(unrelated sample)
ZZZZZZ	1B64243.D	01/03/12	18:28	09:36	(unrelated sample)
JA95756-5	1B64244.D	01/03/12	19:00	10:08	MW-4
JA95756-6	1B64245.D	01/03/12	19:32	10:40	MW-11
JA95756-7	1B64246.D	01/03/12	20:03	11:11	FB
JA95756-8	1B64247.D	01/03/12	20:35	11:43	TB

Volatile Internal Standard/Surrogate Area Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Check Std:	V1B2946-CC2865	Injection Date:	12/28/11
Lab File ID:	1B64065.D	Injection Time:	22:43
Instrument ID:	GCMS1B	Method:	EPA 524.2 REV 4.1

	IS 1 AREA	RT	IS 2 AREA	RT	Surr 3 AREA	RT	Surr 4 AREA	RT
Initial Cal [a]	17192	7.67	56748	11.10	21689	17.52	20660	15.84
Previous Check [b]	16837	7.66	61930	11.10	22565	17.52	21711	15.85
Check Std [c]	15980	7.65	62122	11.08	22533	17.51	21628	15.83
Upper Limit [d]	31960	8.15	124244	11.58	45066	18.01	43256	16.33
Lower Limit [e]	7990	7.15	31061	10.58	11267	17.01	10814	15.33

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	Surr 3 AREA	RT	Surr 4 AREA	RT
V1B2946-MB1	16694	7.65	59100	11.08	19936	17.51	19828	15.83
ZZZZZZ	15069	7.66	59708	11.08	20334	17.51	20465	15.84
ZZZZZZ	16544	7.65	59469	11.08	20329	17.51	20419	15.83
ZZZZZZ	16593	7.66	60195	11.08	20093	17.51	19935	15.83
ZZZZZZ	14289	7.66	59641	11.08	19762	17.51	19962	15.83
ZZZZZZ	15485	7.66	59326	11.08	20141	17.51	19815	15.83
ZZZZZZ	15571	7.66	60897	11.08	20517	17.51	20162	15.83
ZZZZZZ	14656	7.65	59326	11.08	19972	17.51	19933	15.84
ZZZZZZ	12187	7.65	59991	11.08	19856	17.51	19826	15.83
ZZZZZZ	14680	7.66	58128	11.08	19697	17.51	19235	15.84
ZZZZZZ	15102	7.65	58260	11.08	20156	17.51	20004	15.83
JA95756-1	14309	7.66	57954	11.08	19858	17.51	19847	15.83
JA95756-1MS	15045	7.64	61424	11.07	22092	17.50	21194	15.83
JA95756-1MSD	16012	7.64	62168	11.07	22259	17.50	21641	15.83
JA95756-2	14748	7.65	59590	11.08	20203	17.51	20199	15.83
JA95756-3	14973	7.65	59578	11.08	20292	17.51	20318	15.83
JA95756-4	14894	7.65	58728	11.07	19584	17.50	19540	15.83
V1B2946-BS	14746	7.64	61904	11.07	22126	17.50	21681	15.82
ZZZZZZ	15702	7.65	59574	11.07	20398	17.50	20293	15.83

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Fluorobenzene
Surr 3 = 1,2-Dichlorobenzene-d4
Surr 4 = 4-Bromofluorobenzene

(a) Initial Cal is: V1B2865-ICC2865 1B62296.D 11/10/11 12:22
(b) Previous Check is: V1B2944-CC2865 1B64042.D 12/28/11 09:33
(c) Check Std Limit = -30% of previous check area; -50% of initial cal area.
(d) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(e) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Internal Standard/Surrogate Area Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Check Std:	V1B2953-CC2865	Injection Date:	01/03/12
Lab File ID:	1B64226.D	Injection Time:	09:26
Instrument ID:	GCMS1B	Method:	EPA 524.2 REV 4.1

	IS 1 AREA	RT	IS 2 AREA	RT	Surr 3 AREA	RT	Surr 4 AREA	RT
Initial Cal [a]	17192	7.67	56748	11.10	21689	17.52	20660	15.84
Previous Check [b]	15980	7.65	62122	11.08	22533	17.51	21628	15.83
Check Std [c]	13955	7.65	63776	11.08	24149	17.51	22846	15.83
Upper Limit [d]	27910	8.15	127552	11.58	48298	18.01	45692	16.33
Lower Limit [e]	6978	7.15	31888	10.58	12075	17.01	11423	15.33

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	Surr 3 AREA	RT	Surr 4 AREA	RT
V1B2953-MB1	14244	7.66	61543	11.08	21916	17.51	21227	15.83
V1B2953-BS	16666	7.63	62514	11.07	23727	17.51	22537	15.83
ZZZZZZ	16284	7.63	61973	11.08	21767	17.51	21697	15.83
ZZZZZZ	13451	7.66	63193	11.08	22289	17.51	21903	15.83
ZZZZZZ	11654	7.66	61729	11.08	22045	17.51	21386	15.84
ZZZZZZ	14036	7.66	62569	11.08	21564	17.51	21322	15.83
ZZZZZZ	14650	7.64	61913	11.08	21267	17.51	21580	15.84
JA95763-1	14785	7.65	60576	11.08	21190	17.51	20294	15.83
JA95763-2	12609	7.65	62085	11.08	21224	17.51	20989	15.83
ZZZZZZ	15466	7.65	61391	11.08	21101	17.51	20782	15.83
ZZZZZZ	10516	7.66	60948	11.08	21064	17.51	20736	15.83
ZZZZZZ	12528	7.65	60389	11.08	21245	17.51	20647	15.83
JA95763-1MS	14971	7.65	62664	11.07	23343	17.50	22194	15.82
JA95763-2DUP	14653	7.64	61583	11.07	21210	17.50	20955	15.83
ZZZZZZ	14416	7.65	60448	11.07	20997	17.50	20669	15.83
ZZZZZZ	16379	7.64	60618	11.07	20486	17.50	20712	15.82
ZZZZZZ	12077	7.64	61657	11.07	20476	17.50	21188	15.82
JA95756-5	15157	7.64	60944	11.07	20260	17.50	20672	15.82
JA95756-6	12725	7.63	61269	11.07	20357	17.50	20388	15.82
JA95756-7	15386	7.63	60907	11.07	20586	17.50	20794	15.82
JA95756-8	14307	7.64	60329	11.07	20492	17.50	20650	15.82

IS 1 = Tert Butyl Alcohol-D9
IS 2 = Fluorobenzene
Surr 3 = 1,2-Dichlorobenzene-d4
Surr 4 = 4-Bromofluorobenzene

(a) Initial Cal is: V1B2865-ICC2865 1B62296.D 11/10/11 12:22
(b) Previous Check is: V1B2946-CC2865 1B64065.D 12/28/11 22:43
(c) Check Std Limit = -30% of previous check area; -50% of initial cal area.
(d) Upper Limit = +100% of check standard area; Retention time +0.5 minutes.
(e) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Volatile Surrogate Recovery Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Method: EPA 524.2 REV 4.1 Matrix: AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
JA95756-1	1B64078.D	90.0	94.0
JA95756-2	1B64081.D	89.0	93.0
JA95756-3	1B64082.D	89.0	93.0
JA95756-4	1B64083.D	87.0	91.0
JA95756-5	1B64244.D	87.0	93.0
JA95756-6	1B64245.D	87.0	91.0
JA95756-7	1B64246.D	89.0	93.0
JA95756-8	1B64247.D	89.0	94.0
JA95756-1MS	1B64079.D	94.0	94.0
JA95756-1MSD	1B64080.D	94.0	95.0
JA95763-1MS	1B64239.D	98.0	97.0
JA95763-2DUP	1B64240.D	90.0	93.0
V1B2946-BS	1B64084.D	94.0	96.0
V1B2946-MB1	1B64066.D	88.0	92.0
V1B2953-BS	1B64228.D	99.0	99.0
V1B2953-MB1	1B64227.D	93.0	94.0

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichlorobenzene-d4	78-114%
S2 = 4-Bromofluorobenzene	77-115%

Initial Calibration Summary

Job Number: JA95756 **Sample:** V1B2865-ICC2865
Account: EPMNYLS Environmental Planning and Management **Lab FileID:** 1B62296.D
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Response Factor Report MS1B

Method : C:\MSDCHEM\1\METHODS\M1B2865.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um
Last Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Calibration Files
5 =1b62295.D 10 =1b62296.D 1 =1b62293.D 20 =1b62297.D
40 =1b62298.D 2 =1b62294.D 0.5 =1b62292.D =

Compound	5	10	1	20	40	2	0.5	Avg	%RSD
1) I Tert Butyl Alcohol-d9	ISTD								
2) TERTIARY BUT	1.452	1.514	1.561	1.488	1.435	1.513	1.448	1.487	3.05
3) 1,4-Dioxane	0.108	0.114		0.115	0.108	0.109		0.111	3.13
4) I FLUOROBENZENE	ISTD								
5) 4-BROMOFLUOR	0.367	0.364	0.364	0.363	0.367	0.362	0.369	0.365	0.77
6) 1,2-DICHLORO	0.379	0.382	0.378	0.385	0.391	0.381	0.375	0.382	1.37
7) DICHLORODIFL	0.248	0.257	0.247	0.234	0.277	0.242		0.251	5.83
8) CHLOROMETHAN	0.381	0.374	0.444	0.342	0.375	0.383	0.416	0.388	8.49
9) VINYL CHLORI	0.341	0.357	0.354	0.328	0.365	0.332	0.311	0.341	5.53
10) BROMOMETHANE	0.233	0.241	0.255	0.217	0.237	0.236	0.252	0.239	5.37
11) CHLOROETHANE	0.201	0.210	0.219	0.190	0.206	0.203	0.202	0.204	4.37
12) TRICHLOROFLU	0.309	0.317	0.337	0.288	0.330	0.298		0.313	6.06
13) ETHYL ETHER	0.167	0.174	0.154	0.159	0.167	0.161	0.149	0.162	5.23
14) ACROLEIN	0.065	0.068	0.057	0.068	0.070	0.072		0.066	8.10
15) 1,1-DICHLORO	0.204	0.220	0.213	0.200	0.205	0.189	0.180	0.202	6.72
16) FREON 113	0.130	0.146	0.116	0.147	0.151	0.128		0.137	10.03
17) ACETONE	0.022	0.024	0.015	0.024	0.025	0.019		0.022	17.74
18) IODOMETHANE	0.378	0.408	0.396	0.365	0.381	0.352	0.352	0.376	5.62
19) CARBON DISUL	0.749	0.818	0.768	0.747	0.776	0.686	0.670	0.745	6.92
20) METHYL ACETA	0.048	0.055		0.060	0.060	0.039		0.052	17.77
21) ALLYL CHLORI	0.151	0.167	0.147	0.143	0.151	0.140	0.116	0.145	10.57
22) METHYLENE CH	0.290	0.298	0.314	0.264	0.275	0.279	0.317	0.291	6.86
23) ACRYLONITRIL	0.124	0.131	0.113	0.118	0.128	0.116	0.115	0.121	5.76
24) METHYL TERT	0.835	0.855	0.850	0.778	0.827	0.818	0.844	0.830	3.18
25) trans-1,2-DI	0.345	0.369	0.358	0.334	0.343	0.324	0.298	0.339	6.87
26) HEXANE	0.252	0.269	0.265	0.274	0.284	0.253	0.224	0.260	7.55
27) 1,1-DICHLORO	0.452	0.473	0.466	0.425	0.434	0.421	0.413	0.441	5.28
28) DI-ISOPROPYL	0.823	0.858	0.935	0.870	0.827	0.842	0.944	0.871	5.65
29) ETHYL TERT-B	0.764	0.792	0.862	0.808	0.778	0.805	0.905	0.816	6.12
30) 2-BUTANONE	0.032	0.033	0.024	0.035	0.035	0.028		0.031	14.22
31) 2,2-DICHLORO	0.349	0.374	0.370	0.331	0.336	0.331	0.352	0.349	5.11
32) cis-1,2-DICH	0.289	0.305	0.309	0.272	0.279	0.274	0.267	0.285	5.74
33) PROPIONITRIL	0.049	0.051	0.044	0.048	0.051	0.046	0.042	0.047	7.81
34) METHYLACRYLA	0.225	0.259	0.236	0.249	0.280	0.196		0.241	11.99
35) METHACRYLONI	0.171	0.178	0.188	0.158	0.174	0.178	0.149	0.171	7.78
36) BROMOCHLOROM	0.141	0.147	0.135	0.136	0.142	0.132	0.133	0.138	4.09
37) CHLOROFORM	0.437	0.456	0.449	0.415	0.427	0.411	0.415	0.430	4.19
38) TETRAHYDROFU	0.113	0.115	0.140	0.105	0.111	0.119		0.117	10.54
39) 1,1,1-TRICHL	0.337	0.366	0.337	0.333	0.340	0.299	0.290	0.329	7.88
40) CYCLOHEXANE	0.334	0.354	0.253	0.318	0.349	0.287	0.225	0.303	16.35
41) 1-CHLOROBUTA	0.846	0.906	0.747	0.822	0.855	0.756	0.633	0.795	11.39
42) 1,1-DICHLORO	0.312	0.333	0.302	0.309	0.314	0.286	0.253	0.301	8.49
43) CARBON TETRA	0.279	0.298	0.249	0.273	0.285	0.239	0.216	0.263	11.00
44) 1,2-DICHLORO	0.344	0.361	0.350	0.325	0.341	0.336	0.320	0.340	4.09
45) BENZENE	1.013	1.073	1.052	0.973	1.000	0.968	0.974	1.008	4.08

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Initial Calibration Summary

Job Number: JA95756 **Sample:** V1B2865-ICC2865
Account: EPMNYLS Environmental Planning and Management **Lab FileID:** 1B62296.D
Project: Katonah Q4, Katonah Pump House, Bedford, NY

46)	TERT AMYL ME	0.749	0.778	0.882	0.784	0.762	0.792	0.897	0.806	7.29
47)	TRICHLOROETH	0.252	0.267	0.255	0.245	0.250	0.233	0.227	0.247	5.50
48)	METHYLCYCLOH	0.350	0.372	0.335	0.385	0.397	0.349	0.336	0.361	6.75
49)	METHYL METHA	0.285	0.304	0.253	0.293	0.312	0.263		0.285	8.09
50)	1,2-DICHLORO	0.278	0.290	0.275	0.263	0.275	0.265	0.245	0.270	5.26
51)	DIBROMOMETHA	0.181	0.181	0.173	0.166	0.176	0.167	0.174	0.174	3.54
52)	BROMODICHLOR	0.333	0.349	0.327	0.324	0.339	0.318	0.314	0.329	3.66
53)	CHLOROACETON	0.017	0.019	0.015	0.019	0.019	0.016		0.017	10.76
54)	2-NITROPROPA	0.081	0.078		0.070	0.076	0.088		0.079	8.26
55)	2-CHLOROETHY	0.193	0.200	0.199	0.205	0.200	0.197	0.204	0.200	1.98
56)	cis-1,3-DICH	0.441	0.459	0.445	0.425	0.448	0.426	0.405	0.436	4.18
57)	4-METHYL-2-P	0.116	0.120	0.115	0.123	0.122	0.119	0.128	0.120	3.78
58)	1,1-DICHLORO	0.156	0.147	0.180	0.139	0.139	0.130		0.149	12.00
59)	TOLUENE	0.631	0.660	0.623	0.606	0.623	0.585	0.573	0.614	4.79
60)	trans-1,3-DI	0.413	0.426	0.390	0.400	0.420	0.390	0.375	0.402	4.56
61)	ETHYL METHAC	0.376	0.397	0.360	0.378	0.402	0.364	0.337	0.374	6.00
62)	1,1,2-TRICHL	0.219	0.223	0.222	0.209	0.217	0.213	0.202	0.215	3.51
63)	1,3-DICHLORO	0.453	0.465	0.447	0.424	0.444	0.439	0.450	0.446	2.84
64)	2-HEXANONE	0.116	0.118	0.109	0.117	0.117	0.112	0.117	0.115	2.92
65)	TETRACHLOROE	0.275	0.288	0.279	0.266	0.273	0.251	0.243	0.268	5.99
66)	DIBROMOCHLOR	0.265	0.277	0.255	0.263	0.278	0.253	0.250	0.263	4.25
67)	1,2-DIBROMOE	0.264	0.273	0.256	0.254	0.267	0.249	0.253	0.259	3.39
68)	CHLOROBENZEN	0.702	0.737	0.714	0.684	0.706	0.676	0.670	0.699	3.37
69)	1,1,1,2-TETR	0.258	0.271	0.257	0.252	0.261	0.246	0.244	0.255	3.58
70)	ETHYLBENZENE	1.210	1.265	1.223	1.177	1.203	1.128	1.153	1.194	3.83
71)	m,p-XYLENE	0.475	0.498	0.480	0.460	0.472	0.444	0.434	0.466	4.66
72)	o-XYLENE	0.482	0.502	0.475	0.467	0.482	0.453	0.429	0.470	4.99
73)	STYRENE	0.782	0.832	0.749	0.795	0.829	0.732	0.654	0.767	8.14
74)	BROMOFORM	0.180	0.193	0.175	0.187	0.202	0.170	0.153	0.180	8.90
75)	ISOPROPYLBEN	1.207	1.289	1.226	1.212	1.229	1.125	1.094	1.197	5.55
76)	BROMOBENZENE	0.311	0.322	0.314	0.301	0.309	0.292	0.294	0.306	3.49
77)	1,1,2,2-TETR	0.390	0.398	0.391	0.383	0.394	0.379	0.392	0.390	1.63
78)	TRANS-1,4-DI	0.084	0.088	0.075	0.085	0.092	0.075	0.067	0.081	10.91
79)	1,2,3-TRICHL	0.114	0.118	0.114	0.112	0.115	0.112	0.122	0.115	3.08
80)	n-PROPYLBENZ	1.449	1.526	1.471	1.434	1.448	1.379	1.308	1.431	4.87
81)	O-CHLOROTOLU	0.303	0.308	0.301	0.290	0.294	0.280	0.264	0.291	5.21
82)	1,3,5-TRIMET	1.060	1.114	1.050	1.054	1.073	0.993	0.963	1.044	4.84
83)	P-CHLOROTOLU	0.943	0.970	0.964	0.917	0.925	0.888	0.900	0.929	3.33
84)	tert-BUTYLBE	0.886	0.923	0.872	0.880	0.908	0.821	0.775	0.866	5.93
85)	1,2,4-TRIMET	1.092	1.136	1.084	1.075	1.095	1.015	0.987	1.069	4.77
86)	PENTACHLOROE	0.168	0.182	0.158	0.179	0.185	0.154	0.147	0.168	8.87
87)	sec-BUTYLBEN	1.363	1.424	1.328	1.362	1.380	1.286	1.173	1.331	6.14
88)	p-ISOPROPYLT	1.131	1.182	1.105	1.130	1.151	1.047	0.968	1.102	6.58
89)	M-DICHLOROBE	0.611	0.633	0.620	0.596	0.608	0.579	0.595	0.606	2.93
90)	P-DICHLOROBE	0.637	0.657	0.621	0.624	0.635	0.612	0.567	0.622	4.49
91)	n-BUTYLBENZE	0.611	0.645	0.575	0.614	0.623	0.561	0.499	0.590	8.33
92)	O-DICHLOROBE	0.616	0.644	0.620	0.610	0.621	0.600	0.608	0.617	2.27
93)	HEXACHLOROET	0.165	0.174	0.153	0.170	0.174	0.151	0.139	0.161	8.37
94)	1,2-DIBROMO-	0.066	0.071	0.059	0.068	0.075	0.061	0.056	0.065	10.35
95)	NITROBENZENE	0.014	0.018	0.013	0.021		0.014	0.014	0.016	19.37
96)	1,2,4-TRICHL	0.430	0.455	0.390	0.451	0.469	0.395	0.363	0.422	9.42
97)	HEXACHLOROBU	0.210	0.221	0.200	0.215	0.219	0.197	0.194	0.208	5.23
98)	NAPHTHALENE	1.035	1.138	0.865	1.144	1.245	0.936	0.858	1.032	14.61
99)	1,2,3-TRICHL	0.403	0.431	0.363	0.425	0.443	0.380	0.362	0.401	8.29

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

M1B2865.M Fri Nov 11 09:51:35 2011 RPT1

5.9.1 5

Initial Calibration Verification

Job Number: JA95756 **Sample:** V1B2865-ICV2865
Account: EPMNYLS Environmental Planning and Management **Lab FileID:** 1B62300.D
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\1b62300.D Vial: 10
Acq On : 10 Nov 2011 2:30 pm Operator: mohui
Sample : icv2865-10 Inst : MS1B
Misc : MS20769,V1B2865,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1B2865.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um
Last Update : Fri Nov 11 09:33:18 2011
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% 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	102	0.00	7.68
2	M	TERTIARY BUTYL ALCOHOL	1.487	1.729	-16.3	117	0.01	7.80
3	m	1,4-Dioxane	0.111	0.116	-4.5	104	0.01	11.94
4	I	FLUOROBENZENE	1.000	1.000	0.0	101	0.00	11.10
5	S	4-BROMOFLUOROBENZENE (S)	0.365	0.365	0.0	102	0.00	15.84
6	S	1,2-DICHLOROBENZENE-d4 (S	0.382	0.385	-0.8	102	0.00	17.52
7	M	DICHLORODIFLUOROMETHANE	0.251	0.244	2.8	96	0.01	3.94
8	M	CHLOROMETHANE	0.388	0.372	4.1	101	0.00	4.26
9	M	VINYL CHLORIDE	0.341	0.346	-1.5	98	-0.01	4.53
10	M	BROMOMETHANE	0.239	0.236	1.3	99	0.00	5.25
11	M	CHLOROETHANE	0.204	0.206	-1.0	100	0.00	5.45
12	M	TRICHLOROFLUOROMETHANE	0.313	0.300	4.2	96	0.00	6.00
13	M	ETHYL ETHER	0.162	0.175	-8.0	102	0.01	6.47
14	M	ACROLEIN	0.066	0.065	1.5	96	0.01	6.67
15	M	1,1-DICHLOROETHYLENE	0.202	0.205	-1.5	95	0.00	6.93
16	M	FREON 113	0.137	0.132	3.6	91	0.00	6.93
17	M	ACETONE	0.022	0.025	-13.6	105	0.02	6.94
18	M	IODOMETHANE	0.376	0.379	-0.8	94	0.00	7.21
19	M	CARBON DISULFIDE	0.745	0.740	0.7	92	0.00	7.39
20	M	METHYL ACETATE	0.052	0.052	0.0	96	0.03	7.51
21	M	ALLYL CHLORIDE	0.145	0.145	0.0	88	0.00	7.51
22	M	METHYLENE CHLORIDE	0.291	0.283	2.7	96	0.00	7.70
23	M	ACRYLONITRILE	0.121	0.131	-8.3	101	0.02	8.02
24	M	METHYL TERT BUTYL ETHER	0.830	0.844	-1.6	100	0.00	8.14
25	M	trans-1,2-DICHLOROETHYLEN	0.339	0.352	-3.8	97	0.01	8.18
26	M	HEXANE	0.260	0.212	18.5	80	0.00	8.59
27	M	1,1-DICHLOROETHANE	0.441	0.465	-5.4	100	0.00	8.78
28	M	DI-ISOPROPYL ETHER	0.871	0.840	3.6	99	0.00	8.85
29	M	ETHYL TERT-BUTYL ETHER	0.816	0.844	-3.4	108	0.00	9.36
30	M	2-BUTANONE	0.031	0.034	-9.7	102	0.02	9.55
31	M	2,2-DICHLOROPROPANE	0.349	0.341	2.3	93	0.00	9.62
32	M	cis-1,2-DICHLOROETHYLENE	0.285	0.291	-2.1	97	0.00	9.61
33	M	PROPIONITRILE	0.047	0.053	-12.8	106	0.02	9.59
34	M	METHYLACRYLATE	0.241	0.259	-7.5	101	0.02	9.71
35	M	METHACRYLONITRILE	0.171	0.178	-4.1	102	0.01	9.83
36	M	BROMOCHLOROMETHANE	0.138	0.145	-5.1	100	0.00	9.93
37	M	CHLOROFORM	0.430	0.449	-4.4	100	0.00	10.00
38	M	TETRAHYDROFURAN	0.117	0.118	-0.9	105	0.01	10.02
39	M	1,1,1-TRICHLOROETHANE	0.329	0.346	-5.2	96	0.00	10.32
40	M	CYCLOHEXANE	0.303	0.308	-1.7	88	0.00	10.43
41	M	1-CHLOROBUTANE	0.795	0.867	-9.1	97	0.00	10.41

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Initial Calibration Verification

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample: V1B2865-ICV2865
Lab FileID: 1B62300.D

42 M	1,1-DICHLOROPROPENE	0.301	0.327	-8.6	99	0.00	10.52
43 M	CARBON TETRACHLORIDE	0.263	0.286	-8.7	97	0.00	10.56
44 M	1,2-DICHLOROETHANE	0.340	0.359	-5.6	101	0.00	10.75
45 M	BENZENE	1.008	1.030	-2.2	97	0.00	10.78
46 M	TERT AMYL METHYL ETHER	0.806	0.906	-12.4	118	0.00	10.85
47 M	TRICHLOROETHYLENE	0.247	0.264	-6.9	100	0.00	11.56
48 M	METHYLCYCLOHEXANE	0.361	0.355	1.7	97	0.00	11.83
49 M	METHYL METHACRYLATE	0.285	0.311	-9.1	104	0.00	11.84
50 M	1,2-DICHLOROPROPANE	0.270	0.290	-7.4	102	0.00	11.80
51 M	DIBROMOMETHANE	0.174	0.192	-10.3	107	0.00	11.97
52 M	BROMODICHLOROMETHANE	0.329	0.355	-7.9	103	0.00	12.11
53 M	CHLOROACETONITRILE	0.017	0.019	-11.8	103	0.01	12.26
54 M	2-NITROPROPANE	0.079	0.077	2.5	100	0.00	12.29
55 M	2-CHLOROETHYL VINYL ETHER	0.200	0.231	-15.5	117	0.00	12.37
56 M	cis-1,3-DICHLOROPROPENE	0.436	0.461	-5.7	102	0.00	12.62
57 M	4-METHYL-2-PENTANONE	0.120	0.124	-3.3	105	0.00	12.70
58 M	1,1-DICHLOROPROPANONE	0.149	0.153	-2.7	105	0.01	12.80
59 M	TOLUENE	0.614	0.652	-6.2	100	0.00	13.04
60 M	trans-1,3-DICHLOROPROPENE	0.402	0.441	-9.7	105	0.00	13.21
61 M	ETHYL METHACRYLATE	0.374	0.434	-16.0	111	0.00	13.24
62 M	1,1,2-TRICHLOROETHANE	0.215	0.232	-7.9	105	0.00	13.43
63 M	1,3-DICHLOROPROPANE	0.446	0.472	-5.8	103	0.00	13.63
64 M	2-HEXANONE	0.115	0.117	-1.7	101	0.01	13.63
65 M	TETRACHLOROETHYLENE	0.268	0.286	-6.7	100	0.00	13.70
66 M	DIBROMOCHLOROMETHANE	0.263	0.287	-9.1	105	0.00	13.93
67 M	1,2-DIBROMOETHANE	0.259	0.282	-8.9	104	0.00	14.09
68 M	CHLOROBENZENE	0.699	0.757	-8.3	104	0.00	14.62
69 M	1,1,1,2-TETRACHLOROETHANE	0.255	0.275	-7.8	103	0.00	14.68
70 M	ETHYLBENZENE	1.194	1.270	-6.4	102	0.00	14.70
71 M	m,p-XYLENE	0.466	0.502	-7.7	102	0.00	14.81
72 M	o-XYLENE	0.470	0.514	-9.4	104	0.00	15.26
73 M	STYRENE	0.767	0.856	-11.6	104	0.00	15.26
74 M	BROMOFORM	0.180	0.205	-13.9	108	0.00	15.53
75 M	ISOPROPYLBENZENE	1.197	1.295	-8.2	102	0.00	15.64
76 M	BROMOBENZENE	0.306	0.333	-8.8	105	0.00	16.06
77 M	1,1,2,2-TETRACHLOROETHANE	0.390	0.409	-4.9	104	0.00	15.91
78 M	TRANS-1,4-DICHLORO-2-BUTE	0.081	0.095	-17.3	110	0.00	15.96
79 M	1,2,3-TRICHLOROPROPANE	0.115	0.125	-8.7	107	0.00	15.99
80 M	n-PROPYLBENZENE	1.431	1.583	-10.6	105	0.00	16.08
81 M	O-CHLOROTOLUENE	0.291	0.315	-8.2	104	0.00	16.23
82 M	1,3,5-TRIMETHYLBENZENE	1.044	1.126	-7.9	103	0.00	16.24
83 M	P-CHLOROTOLUENE	0.929	1.002	-7.9	105	0.00	16.33
84 M	tert-BUTYLBENZENE	0.866	0.943	-8.9	104	0.00	16.62
85 M	1,2,4-TRIMETHYLBENZENE	1.069	1.184	-10.8	106	0.00	16.66
86 M	PENTACHLOROETHANE	0.168	0.190	-13.1	106	0.00	16.69
87 M	sec-BUTYLBENZENE	1.331	1.427	-7.2	102	0.00	16.85
88 M	p-ISOPROPYLTOLUENE	1.102	1.241	-12.6	107	0.00	16.97
89 M	M-DICHLOROBENZENE	0.606	0.660	-8.9	106	0.00	17.04
90 M	P-DICHLOROBENZENE	0.622	0.681	-9.5	105	0.00	17.12
91 M	n-BUTYLBENZENE	0.590	0.653	-10.7	103	0.00	17.41
92 M	O-DICHLOROBENZENE	0.617	0.664	-7.6	105	0.00	17.54
93 M	HEXACHLOROETHANE	0.161	0.181	-12.4	105	0.00	17.85
94 M	1,2-DIBROMO-3-CHLOROPROPA	0.065	0.074	-13.8	106	0.00	18.33
95 M	NITROBENZENE	0.016	0.019	-18.7	109	0.00	18.54
96 M	1,2,4-TRICHLOROBENZENE	0.422	0.493	-16.8	110	0.00	19.23
97 M	HEXACHLOROBUTADIENE	0.208	0.213	-2.4	98	0.00	19.37
98 M	NAPHTHALENE	1.032	1.219	-18.1	109	0.00	19.51
99 M	1,2,3-TRICHLOROBENZENE	0.401	0.455	-13.5	107	0.00	19.77

5.9.2 5

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample: V1B2865-ICV2865
Lab FileID: 1B62300.D

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1b62296.D M1B2865.M Fri Nov 11 09:51:10 2011 RPT1

Continuing Calibration Summary

Job Number: JA95756 **Sample:** V1B2946-CC2865
Account: EPMNYLS Environmental Planning and Management **Lab FileID:** 1B64065.D
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\1B64065.D Vial: 25
Acq On : 28 Dec 2011 10:43 pm Operator: mohui
Sample : cc2865-10 Inst : MS1B
Misc : MS23612,V1B2946,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1B2865.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um
Last Update : Fri Nov 11 09:33:18 2011
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% 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	93	-0.03	7.65
2	M	TERTIARY BUTYL ALCOHOL	1.487	1.377	7.4	84	0.00	7.79
3	m	1,4-Dioxane	0.111	0.118	-6.3	96	0.00	11.92
4	I	FLUOROBENZENE	1.000	1.000	0.0	109	-0.01	11.08
5	S	4-BROMOFLUOROBENZENE (S)	0.365	0.348	4.7	105	0.00	15.83
6	S	1,2-DICHLOROBENZENE-d4 (S	0.382	0.363	5.0	104	-0.01	17.51
7	M	DICHLORODIFLUOROMETHANE	0.251	0.281	-12.0	120	-0.01	3.92
8	M	CHLOROMETHANE	0.388	0.428	-10.3	125	-0.02	4.24
9	M	VINYL CHLORIDE	0.341	0.421	-23.5	129	-0.03	4.52
10	M	BROMOMETHANE	0.239	0.269	-12.6	122	-0.02	5.23
11	M	CHLOROETHANE	0.204	0.248	-21.6	129	-0.02	5.43
12	M	TRICHLOROFLUOROMETHANE	0.313	0.355	-13.4	123	-0.02	5.97
13	M	ETHYL ETHER	0.162	0.169	-4.3	107	0.00	6.46
14	M	ACROLEIN	0.066	0.041	37.9#	66	0.00	6.66
15	M	1,1-DICHLOROETHYLENE	0.202	0.239	-18.3	119	-0.02	6.91
16	M	FREON 113	0.137	0.158	-15.3	118	-0.01	6.92
17	M	ACETONE	0.022	0.025	-13.6	115	0.00	6.92
18	M	IODOMETHANE	0.376	0.407	-8.2	109	-0.02	7.18
19	M	CARBON DISULFIDE	0.745	1.039	-39.5#	139	-0.02	7.36
20	M	METHYL ACETATE	0.052	0.065	-25.0	128	0.01	7.49
21	M	ALLYL CHLORIDE	0.145	0.161	-11.0	105	-0.01	7.49
22	M	METHYLENE CHLORIDE	0.291	0.319	-9.6	117	-0.02	7.68
23	M	ACRYLONITRILE	0.121	0.133	-9.9	111	0.00	8.00
24	M	METHYL TERT BUTYL ETHER	0.830	0.904	-8.9	116	-0.02	8.12
25	M	trans-1,2-DICHLOROETHYLEN	0.339	0.402	-18.6	119	-0.01	8.16
26	M	HEXANE	0.260	0.281	-8.1	114	-0.02	8.57
27	M	1,1-DICHLOROETHANE	0.441	0.503	-14.1	116	-0.02	8.77
28	M	DI-ISOPROPYL ETHER	0.871	0.884	-1.5	113	-0.02	8.82
29	M	ETHYL TERT-BUTYL ETHER	0.816	0.870	-6.6	120	-0.02	9.34
30	M	2-BUTANONE	0.031	0.035	-12.9	114	0.00	9.53
31	M	2,2-DICHLOROPROPANE	0.349	0.350	-0.3	103	-0.02	9.60
32	M	cis-1,2-DICHLOROETHYLENE	0.285	0.325	-14.0	117	-0.02	9.59
33	M	PROPIONITRILE	0.047	0.053	-12.8	114	0.00	9.57
34	M	METHYLACRYLATE	0.241	0.258	-7.1	109	0.02	9.71
35	M	METHACRYLONITRILE	0.171	0.172	-0.6	106	0.00	9.82
36	M	BROMOCHLOROMETHANE	0.138	0.154	-11.6	114	-0.01	9.92
37	M	CHLOROFORM	0.430	0.479	-11.4	115	-0.02	9.98
38	M	TETRAHYDROFURAN	0.117	0.115	1.7	110	0.00	10.00
39	M	1,1,1-TRICHLOROETHANE	0.329	0.379	-15.2	113	-0.02	10.30
40	M	CYCLOHEXANE	0.303	0.372	-22.8	115	-0.02	10.42
41	M	1-CHLOROBUTANE	0.795	0.962	-21.0	116	0.00	10.40

Continuing Calibration Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample: V1B2946-CC2865
Lab FileID: 1B64065.D

42 M	1,1-DICHLOROPROPENE	0.301	0.369	-22.6	121	-0.01	10.50
43 M	CARBON TETRACHLORIDE	0.263	0.314	-19.4	115	-0.01	10.54
44 M	1,2-DICHLOROETHANE	0.340	0.381	-12.1	116	-0.01	10.74
45 M	BENZENE	1.008	1.179	-17.0	120	-0.01	10.76
46 M	TERT AMYL METHYL ETHER	0.806	0.852	-5.7	120	-0.02	10.84
47 M	TRICHLOROETHYLENE	0.247	0.283	-14.6	116	-0.01	11.55
48 M	METHYLCYCLOHEXANE	0.361	0.411	-13.9	121	-0.02	11.82
49 M	METHYL METHACRYLATE	0.285	0.303	-6.3	109	0.00	11.83
50 M	1,2-DICHLOROPROPANE	0.270	0.315	-16.7	119	-0.01	11.79
51 M	DIBROMOMETHANE	0.174	0.196	-12.6	119	-0.01	11.95
52 M	BROMODICHLOROMETHANE	0.329	0.363	-10.3	114	-0.01	12.10
53 M	CHLOROACETONITRILE	0.017	0.022	-29.4	127	0.00	12.24
54 M	2-NITROPROPANE	0.079	0.071	10.1	99	0.00	12.28
55 M	2-CHLOROETHYL VINYL ETHER	0.200	0.202	-1.0	110	0.00	12.36
56 M	cis-1,3-DICHLOROPROPENE	0.436	0.485	-11.2	115	-0.01	12.60
57 M	4-METHYL-2-PENTANONE	0.120	0.127	-5.8	116	-0.01	12.69
58 M	1,1-DICHLOROPROPANONE	0.149	0.171	-14.8	127	0.00	12.79
59 M	TOLUENE	0.614	0.711	-15.8	118	-0.01	13.02
60 M	trans-1,3-DICHLOROPROPENE	0.402	0.444	-10.4	114	-0.01	13.20
61 M	ETHYL METHACRYLATE	0.374	0.385	-2.9	106	0.00	13.23
62 M	1,1,2-TRICHLOROETHANE	0.215	0.246	-14.4	121	-0.01	13.42
63 M	1,3-DICHLOROPROPANE	0.446	0.508	-13.9	119	-0.01	13.62
64 M	2-HEXANONE	0.115	0.122	-6.1	113	0.00	13.62
65 M	TETRACHLOROETHYLENE	0.268	0.278	-3.7	106	-0.02	13.68
66 M	DIBROMOCHLOROMETHANE	0.263	0.283	-7.6	112	-0.01	13.92
67 M	1,2-DIBROMOETHANE	0.259	0.283	-9.3	113	-0.01	14.08
68 M	CHLOROBENZENE	0.699	0.778	-11.3	116	0.00	14.61
69 M	1,1,1,2-TETRACHLOROETHANE	0.255	0.276	-8.2	112	-0.01	14.67
70 M	ETHYLBENZENE	1.194	1.330	-11.4	115	0.00	14.69
71 M	m,p-XYLENE	0.466	0.525	-12.7	115	-0.01	14.80
72 M	o-XYLENE	0.470	0.529	-12.6	115	0.00	15.25
73 M	STYRENE	0.767	0.821	-7.0	108	0.00	15.26
74 M	BROMOFORM	0.180	0.190	-5.6	108	-0.01	15.51
75 M	ISOPROPYLBENZENE	1.197	1.329	-11.0	113	-0.01	15.63
76 M	BROMOBENZENE	0.306	0.327	-6.9	111	0.00	16.04
77 M	1,1,2,2-TETRACHLOROETHANE	0.390	0.440	-12.8	121	0.00	15.90
78 M	TRANS-1,4-DICHLORO-2-BUTE	0.081	0.089	-9.9	111	0.00	15.95
79 M	1,2,3-TRICHLOROPROPANE	0.115	0.121	-5.2	112	0.00	15.98
80 M	n-PROPYLBENZENE	1.431	1.631	-14.0	117	0.00	16.07
81 M	O-CHLOROTOLUENE	0.291	0.322	-10.7	114	0.00	16.22
82 M	1,3,5-TRIMETHYLBENZENE	1.044	1.141	-9.3	112	0.00	16.23
83 M	P-CHLOROTOLUENE	0.929	1.022	-10.0	115	0.00	16.32
84 M	tert-BUTYLBENZENE	0.866	0.948	-9.5	112	0.00	16.61
85 M	1,2,4-TRIMETHYLBENZENE	1.069	1.160	-8.5	112	0.00	16.65
86 M	PENTACHLOROETHANE	0.168	0.196	-16.7	118	0.00	16.68
87 M	sec-BUTYLBENZENE	1.331	1.481	-11.3	114	-0.01	16.84
88 M	p-ISOPROPYLTOLUENE	1.102	1.188	-7.8	110	0.00	16.97
89 M	M-DICHLOROBENZENE	0.606	0.644	-6.3	111	0.00	17.03
90 M	P-DICHLOROBENZENE	0.622	0.659	-5.9	110	0.00	17.12
91 M	n-BUTYLBENZENE	0.590	0.647	-9.7	110	0.00	17.41
92 M	O-DICHLOROBENZENE	0.617	0.647	-4.9	110	0.00	17.53
93 M	HEXACHLOROETHANE	0.161	0.164	-1.9	103	0.00	17.85
94 M	1,2-DIBROMO-3-CHLOROPROPA	0.065	0.057	12.3	88	-0.01	18.32
95 M	NITROBENZENE	0.016	0.029	-81.3#	177	0.00	18.53
96 M	1,2,4-TRICHLOROBENZENE	0.422	0.427	-1.2	103	0.00	19.22
97 M	HEXACHLOROBUTADIENE	0.208	0.198	4.8	98	0.00	19.36
98 M	NAPHTHALENE	1.032	0.974	5.6	94	0.00	19.50
99 M	1,2,3-TRICHLOROBENZENE	0.401	0.392	2.2	99	0.00	19.77

5.9.3 5

Continuing Calibration Summary

Job Number:	JA95756	Sample:	V1B2946-CC2865
Account:	EPMNYLS Environmental Planning and Management	Lab FileID:	1B64065.D
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

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

1b62296.D M1B2865.M Thu Dec 29 08:54:27 2011 RPT1

5.9.3

Continuing Calibration Summary

Job Number: JA95756 **Sample:** V1B2953-CC2865
Account: EPMNYLS Environmental Planning and Management **Lab FileID:** 1B64226.D
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\1B64226.D Vial: 2
Acq On : 3 Jan 2012 9:26 am Operator: mohui
Sample : cc2865-5 Inst : MS1B
Misc : MS23612,V1B2953,W,,,,1 Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\MSDCHEM\1\METHODS\M1B2865.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um
Last Update : Fri Nov 11 09:33:18 2011
Response via : Multiple Level Calibration

Min. RRF : 0.010 Min. Rel. Area : 50% Max. R.T. Dev 0.30min
Max. RRF Dev : 30% 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	83	-0.03	7.65
2	M	TERTIARY BUTYL ALCOHOL	1.487	1.230	17.3	70	-0.02	7.78
3	m	1,4-Dioxane	0.111	0.118	-6.3	91	-0.01	11.92
4	I	FLUOROBENZENE	1.000	1.000	0.0	111	-0.02	11.08
5	S	4-BROMOFLUOROBENZENE (S)	0.365	0.358	1.9	109	-0.01	15.83
6	S	1,2-DICHLOROBENZENE-d4 (S	0.382	0.379	0.8	111	-0.01	17.51
7	M	DICHLORODIFLUOROMETHANE	0.251	0.311	-23.9	140	-0.03	3.90
8	M	CHLOROMETHANE	0.388	0.431	-11.1	126	-0.03	4.23
9	M	VINYL CHLORIDE	0.341	0.390	-14.4	127	-0.03	4.51
10	M	BROMOMETHANE	0.239	0.279	-16.7	134	-0.03	5.22
11	M	CHLOROETHANE	0.204	0.232	-13.7	129	-0.02	5.43
12	M	TRICHLOROFLUOROMETHANE	0.313	0.331	-5.8	119	-0.02	5.97
13	M	ETHYL ETHER	0.162	0.154	4.9	102	-0.01	6.45
14	M	ACROLEIN	0.066	0.065	1.5	112	0.00	6.65
15	M	1,1-DICHLOROETHYLENE	0.202	0.206	-2.0	112	-0.02	6.90
16	M	FREON 113	0.137	0.139	-1.5	119	-0.03	6.90
17	M	ACETONE	0.022	0.023	-4.5	118	0.00	6.92
18	M	IODOMETHANE	0.376	0.378	-0.5	112	-0.03	7.18
19	M	CARBON DISULFIDE	0.745	0.758	-1.7	113	-0.03	7.36
20	M	METHYL ACETATE	0.052	0.054	-3.8	127	0.05	7.53
21	M	ALLYL CHLORIDE	0.145	0.153	-5.5	113	-0.02	7.48
22	M	METHYLENE CHLORIDE	0.291	0.300	-3.1	116	-0.02	7.68
23	M	ACRYLONITRILE	0.121	0.128	-5.8	115	0.01	8.01
24	M	METHYL TERT BUTYL ETHER	0.830	0.872	-5.1	116	-0.02	8.12
25	M	trans-1,2-DICHLOROETHYLEN	0.339	0.342	-0.9	110	-0.02	8.15
26	M	HEXANE	0.260	0.233	10.4	103	-0.02	8.57
27	M	1,1-DICHLOROETHANE	0.441	0.451	-2.3	111	-0.03	8.76
28	M	DI-ISOPROPYL ETHER	0.871	0.777	10.8	105	-0.02	8.82
29	M	ETHYL TERT-BUTYL ETHER	0.816	0.811	0.6	118	-0.02	9.34
30	M	2-BUTANONE	0.031	0.034	-9.7	118	0.02	9.54
31	M	2,2-DICHLOROPROPANE	0.349	0.341	2.3	109	-0.03	9.59
32	M	cis-1,2-DICHLOROETHYLENE	0.285	0.303	-6.3	117	-0.02	9.58
33	M	PROPIONITRILE	0.047	0.050	-6.4	113	0.00	9.58
34	M	METHYLACRYLATE	0.241	0.219	9.1	108	0.03	9.72
35	M	METHACRYLONITRILE	0.171	0.159	7.0	103	0.00	9.82
36	M	BROMOCHLOROMETHANE	0.138	0.150	-8.7	118	-0.02	9.91
37	M	CHLOROFORM	0.430	0.435	-1.2	111	-0.02	9.98
38	M	TETRAHYDROFURAN	0.117	0.118	-0.9	116	0.00	10.00
39	M	1,1,1-TRICHLOROETHANE	0.329	0.330	-0.3	109	-0.02	10.29
40	M	CYCLOHEXANE	0.303	0.320	-5.6	107	-0.02	10.42
41	M	1-CHLOROBUTANE	0.795	0.790	0.6	104	-0.01	10.40

Continuing Calibration Summary

Job Number: JA95756
Account: EPMNYLS Environmental Planning and Management
Project: Katonah Q4, Katonah Pump House, Bedford, NY

Sample: V1B2953-CC2865
Lab FileID: 1B64226.D

42 M	1,1-DICHLOROPROPENE	0.301	0.309	-2.7	111	-0.01	10.50
43 M	CARBON TETRACHLORIDE	0.263	0.263	0.0	105	-0.02	10.53
44 M	1,2-DICHLOROETHANE	0.340	0.343	-0.9	111	-0.02	10.73
45 M	BENZENE	1.008	1.088	-7.9	120	-0.02	10.76
46 M	TERT AMYL METHYL ETHER	0.806	0.818	-1.5	122	-0.02	10.83
47 M	TRICHLOROETHYLENE	0.247	0.257	-4.0	114	-0.01	11.55
48 M	METHYLCYCLOHEXANE	0.361	0.337	6.6	107	-0.02	11.82
49 M	METHYL METHACRYLATE	0.285	0.273	4.2	106	0.00	11.83
50 M	1,2-DICHLOROPROPANE	0.270	0.283	-4.8	113	-0.02	11.78
51 M	DIBROMOMETHANE	0.174	0.185	-6.3	114	-0.02	11.94
52 M	BROMODICHLOROMETHANE	0.329	0.336	-2.1	113	-0.02	12.09
53 M	CHLOROACETONITRILE	0.017	0.022	-29.4	142	0.00	12.25
54 M	2-NITROPROPANE	0.079	0.073	7.6	101	-0.02	12.27
55 M	2-CHLOROETHYL VINYL ETHER	0.200	0.173	13.5	100	-0.01	12.36
56 M	cis-1,3-DICHLOROPROPENE	0.436	0.454	-4.1	115	-0.02	12.59
57 M	4-METHYL-2-PENTANONE	0.120	0.134	-11.7	129	-0.01	12.69
58 M	1,1-DICHLOROPROPANONE	0.149	0.194	-30.2#	139	0.00	12.79
59 M	TOLUENE	0.614	0.653	-6.4	115	-0.01	13.02
60 M	trans-1,3-DICHLOROPROPENE	0.402	0.424	-5.5	114	-0.01	13.20
61 M	ETHYL METHACRYLATE	0.374	0.359	4.0	106	0.00	13.23
62 M	1,1,2-TRICHLOROETHANE	0.215	0.240	-11.6	123	-0.02	13.42
63 M	1,3-DICHLOROPROPANE	0.446	0.477	-7.0	117	-0.02	13.62
64 M	2-HEXANONE	0.115	0.128	-11.3	123	0.00	13.62
65 M	TETRACHLOROETHYLENE	0.268	0.261	2.6	106	-0.02	13.68
66 M	DIBROMOCHLOROMETHANE	0.263	0.271	-3.0	114	-0.02	13.91
67 M	1,2-DIBROMOETHANE	0.259	0.280	-8.1	118	-0.01	14.08
68 M	CHLOROBENZENE	0.699	0.739	-5.7	117	-0.01	14.61
69 M	1,1,1,2-TETRACHLOROETHANE	0.255	0.266	-4.3	115	-0.02	14.67
70 M	ETHYLBENZENE	1.194	1.242	-4.0	114	-0.01	14.68
71 M	m,p-XYLENE	0.466	0.497	-6.7	117	-0.01	14.80
72 M	o-XYLENE	0.470	0.502	-6.8	116	-0.01	15.25
73 M	STYRENE	0.767	0.751	2.1	107	-0.01	15.25
74 M	BROMOFORM	0.180	0.191	-6.1	118	-0.01	15.52
75 M	ISOPROPYLBENZENE	1.197	1.236	-3.3	114	-0.01	15.63
76 M	BROMOBENZENE	0.306	0.324	-5.9	116	0.00	16.04
77 M	1,1,2,2-TETRACHLOROETHANE	0.390	0.436	-11.8	125	-0.01	15.90
78 M	TRANS-1,4-DICHLORO-2-BUTE	0.081	0.093	-14.8	123	-0.01	15.95
79 M	1,2,3-TRICHLOROPROPANE	0.115	0.123	-7.0	121	0.00	15.98
80 M	n-PROPYLBENZENE	1.431	1.512	-5.7	116	-0.01	16.07
81 M	O-CHLOROTOLUENE	0.291	0.308	-5.8	113	-0.01	16.22
82 M	1,3,5-TRIMETHYLBENZENE	1.044	1.073	-2.8	113	-0.01	16.23
83 M	P-CHLOROTOLUENE	0.929	0.985	-6.0	117	0.00	16.32
84 M	tert-BUTYLBENZENE	0.866	0.896	-3.5	113	-0.01	16.60
85 M	1,2,4-TRIMETHYLBENZENE	1.069	1.118	-4.6	114	-0.01	16.65
86 M	PENTACHLOROETHANE	0.168	0.192	-14.3	128	-0.01	16.67
87 M	sec-BUTYLBENZENE	1.331	1.344	-1.0	110	-0.01	16.84
88 M	p-ISOPROPYLTOLUENE	1.102	1.107	-0.5	109	-0.01	16.96
89 M	M-DICHLOROBENZENE	0.606	0.638	-5.3	116	0.00	17.03
90 M	P-DICHLOROBENZENE	0.622	0.663	-6.6	116	-0.01	17.11
91 M	n-BUTYLBENZENE	0.590	0.577	2.2	105	-0.01	17.40
92 M	O-DICHLOROBENZENE	0.617	0.649	-5.2	118	-0.01	17.53
93 M	HEXACHLOROETHANE	0.161	0.159	1.2	107	-0.01	17.84
94 M	1,2-DIBROMO-3-CHLOROPROPA	0.065	0.061	6.2	102	-0.01	18.32
95 M	NITROBENZENE	0.016	0.018	-12.5	144	0.00	18.53
96 M	1,2,4-TRICHLOROBENZENE	0.422	0.439	-4.0	114	-0.01	19.22
97 M	HEXACHLOROBUTADIENE	0.208	0.182	12.5	97	-0.01	19.36
98 M	NAPHTHALENE	1.032	0.983	4.7	106	-0.01	19.50
99 M	1,2,3-TRICHLOROBENZENE	0.401	0.403	-0.5	112	-0.01	19.76

5.9.4 5

Continuing Calibration Summary

Job Number:	JA95756	**Sample:**	V1B2953-CC2865
Account:	EPMNYLS Environmental Planning and Management	**Lab FileID:**	1B64226.D
Project:	Katonah Q4, Katonah Pump House, Bedford, NY		

(#) = Out of Range SPCC's out = 0 CCC's out = 0
1b62295.D M1B2865.M Tue Jan 03 12:37:28 2012 RPT1

New Jersey
ACCUTEST
LABORATORIES

GC/MS Volatiles

6

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64078.D
Acq On : 29 Dec 2011 5:39 am
Operator : mohui
Sample : ja95756-1
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Dec 29 09:18:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.1.1

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.661	65	14309	50.00	PPB	-0.02
4) FLUOROBENZENE	11.079	96	57954	5.00	PPb	-0.02
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	15.830	95	19847	4.69	PPb	-0.01
Spiked Amount 5.000	Range 77 - 115		Recovery = 93.80%			
6) 1,2-DICHLOROBENZENE-d4...	17.507	152	19858	4.49	PPb	-0.01
Spiked Amount 5.000	Range 78 - 114		Recovery = 89.80%			
Target Compounds						Qvalue
24) METHYL TERT BUTYL ETHER	8.128	73	567	0.06	PPb	56
32) cis-1,2-DICHLOROETHYLENE	9.601	96	1795	0.54	PPb	74
37) CHLOROFORM	9.994	83	499	0.10	PPb	73
47) TRICHLOROETHYLENE	11.562	95	2119	0.74	PPb	87
65) TETRACHLOROETHYLENE	13.680	166	69028	22.24	PPb	97

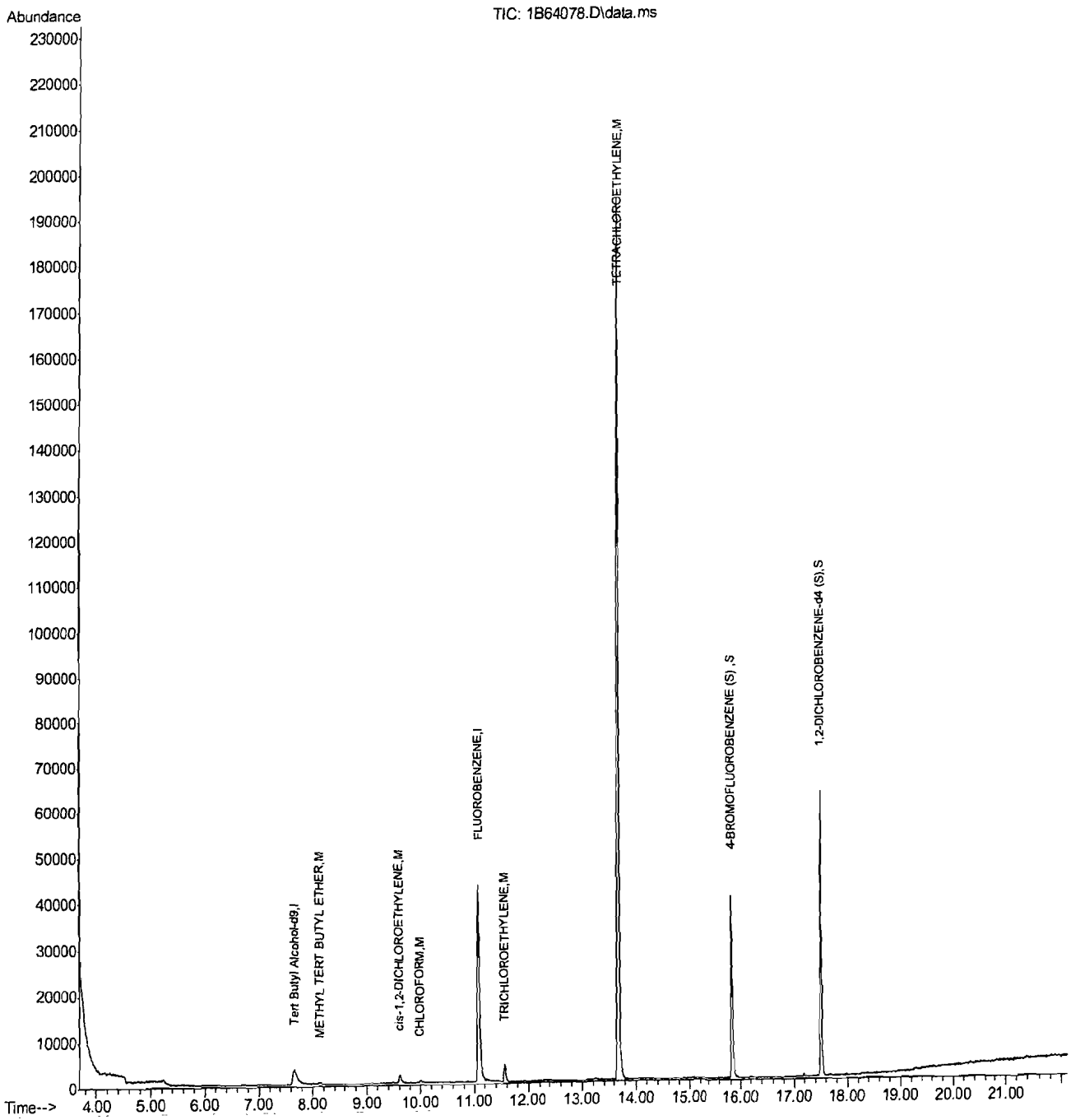
(#) = qualifier out of range (m) = manual integration (+) = signals summed

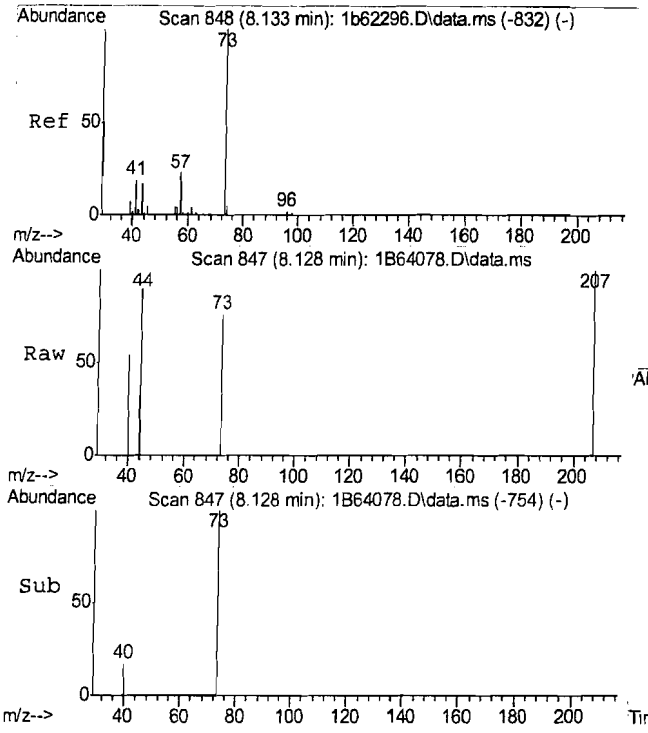
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64078.D
Acq On : 29 Dec 2011 5:39 am
Operator : mohui
Sample : ja95756-1
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 38 Sample Multiplier: 1

Quant Time: Dec 29 09:18:15 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.1.1 6

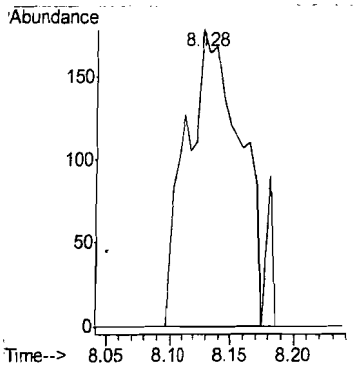


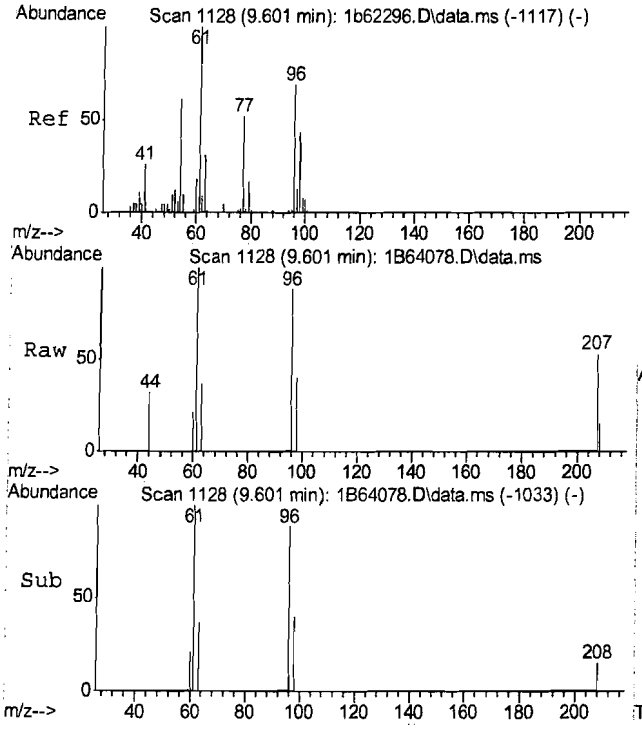


#24
METHYL TERT BUTYL ETHER
Concen: 0.06 PPb
RT: 8.128 min Scan# 847
Delta R.T. -0.011 min
Lab File: 1B64078.D
Acq: 29 Dec 2011 5:39 am

Tgt Ion: 73 Resp: 567

Ion	Ratio	Lower	Upper
73	100		
57	0.0	0.0	52.6
43	0.0	0.0	47.2

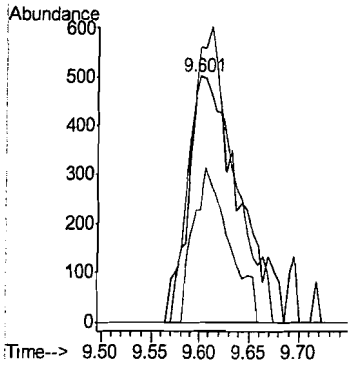


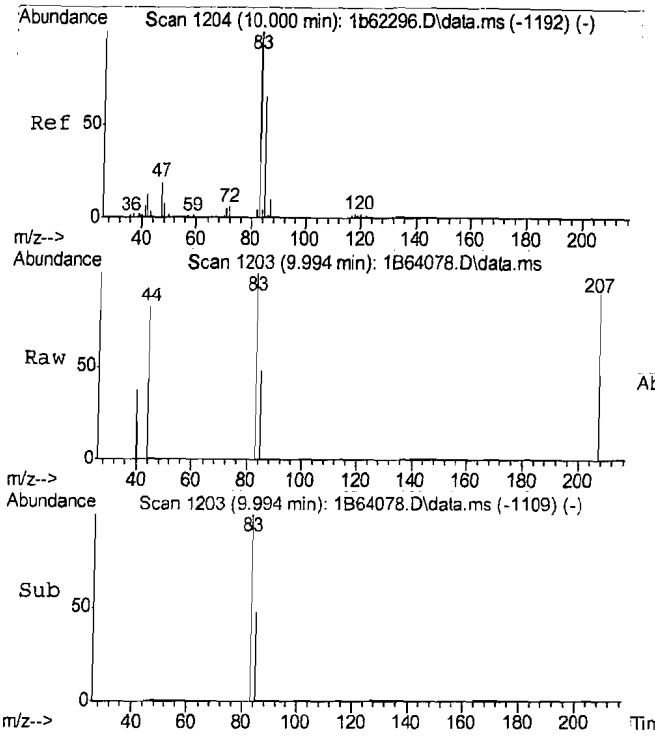


#32
cis-1,2-DICHLOROETHYLENE
Concen: 0.54 PPb
RT: 9.601 min Scan# 1128
Delta R.T. -0.000 min
Lab File: 1B64078.D
Acq: 29 Dec 2011 5:39 am

Tgt Ion: 96 Resp: 1795

Ion	Ratio	Lower	Upper
96	100		
61	112.2	101.8	189.0
98	45.0	44.0	81.8

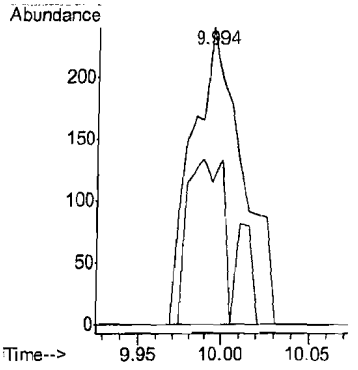


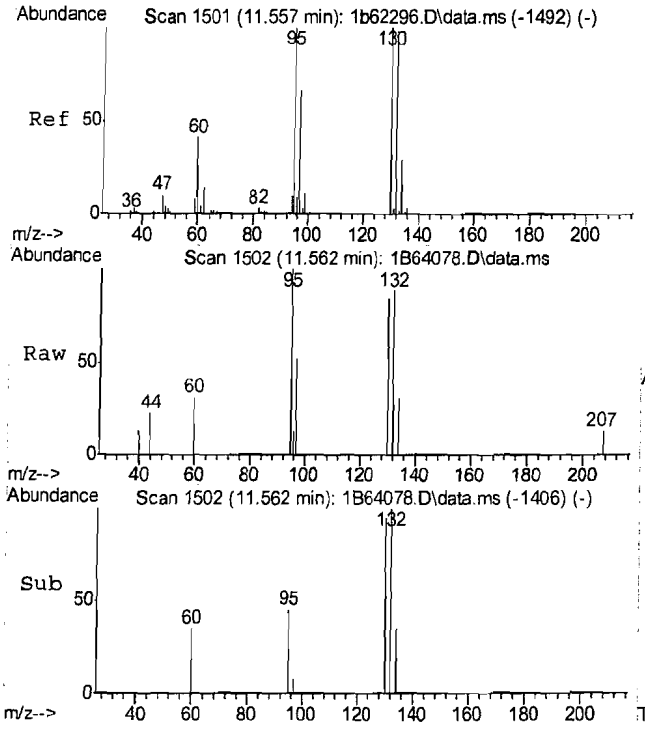


#37
CHLOROFORM
Concen: 0.10 PPb
RT: 9.994 min Scan# 1203
Delta R.T. -0.005 min
Lab File: 1B64078.D
Acq: 29 Dec 2011 5:39 am

Tgt Ion: 83 Resp: 499

Ion	Ratio	Lower	Upper
83	100		
85	47.9	34.3	94.3
47	0.0	0.0	50.5

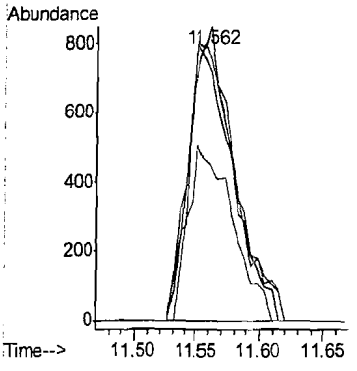


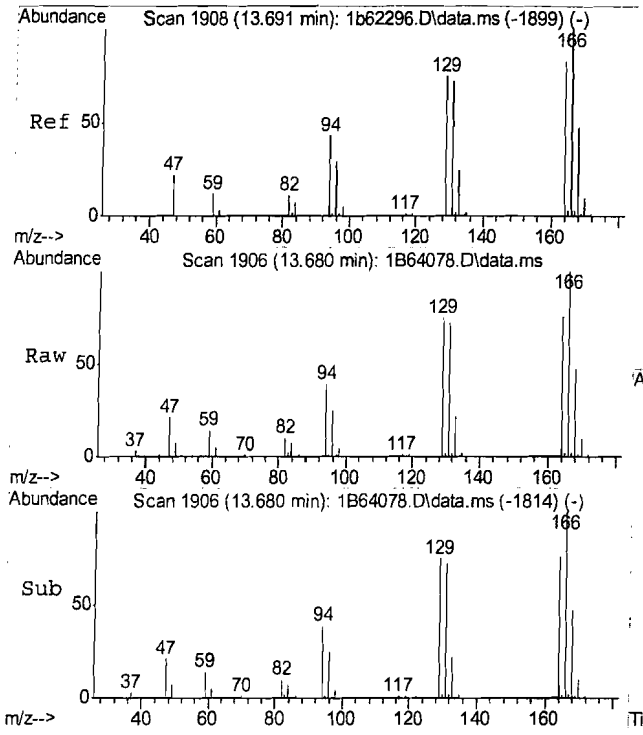


#47
TRICHLOROETHYLENE
Concen: 0.74 PPb
RT: 11.562 min Scan# 1502
Delta R.T. 0.005 min
Lab File: 1B64078.D
Acq: 29 Dec 2011 5:39 am

Tgt Ion: 95 Resp: 2119

Ion	Ratio	Lower	Upper
95	100		
130	84.9	70.0	130.0
132	89.3	67.9	127.9
97	52.3	35.7	95.7

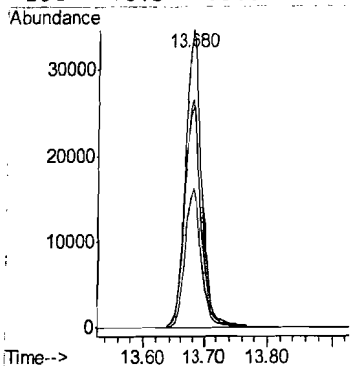




#65
TETRACHLOROETHYLENE
Concen: 22.24 PPb
RT: 13.680 min Scan# 1906
Delta R.T. -0.016 min
Lab File: 1B64078.D
Acq: 29 Dec 2011 5:39 am

Tgt Ion:166 Resp: 69028

Ion	Ratio	Lower	Upper
166	100		
168	46.8	17.1	77.1
129	74.7	44.9	104.9
164	76.3	52.5	112.5



6.1.1 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64081.D
Acq On : 29 Dec 2011 7:16 am
Operator : mohui
Sample : ja95756-2
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 29 09:19:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.645	65	14748	50.00	PPB		-0.03
4) FLUOROBENZENE	11.080	96	59590	5.00	PPb		-0.02
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.830	95	20199	4.64	PPb		-0.01
Spiked Amount 5.000	Range 77 - 115		Recovery = 92.80%				
6) 1,2-DICHLOROBENZENE-d4...	17.508	152	20203	4.44	PPb		-0.01
Spiked Amount 5.000	Range 78 - 114		Recovery = 88.80%				
Target Compounds							Qvalue
24) METHYL TERT BUTYL ETHER	8.138	73	586	0.06	PPb		56
32) cis-1,2-DICHLOROETHYLENE	9.606	96	1999	0.59	PPb	#	72
37) CHLOROFORM	9.994	83	565	0.11	PPb		80
47) TRICHLOROETHYLENE	11.551	95	2392	0.81	PPb		91
65) TETRACHLOROETHYLENE	13.675	166	75794	23.75	PPb		97

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

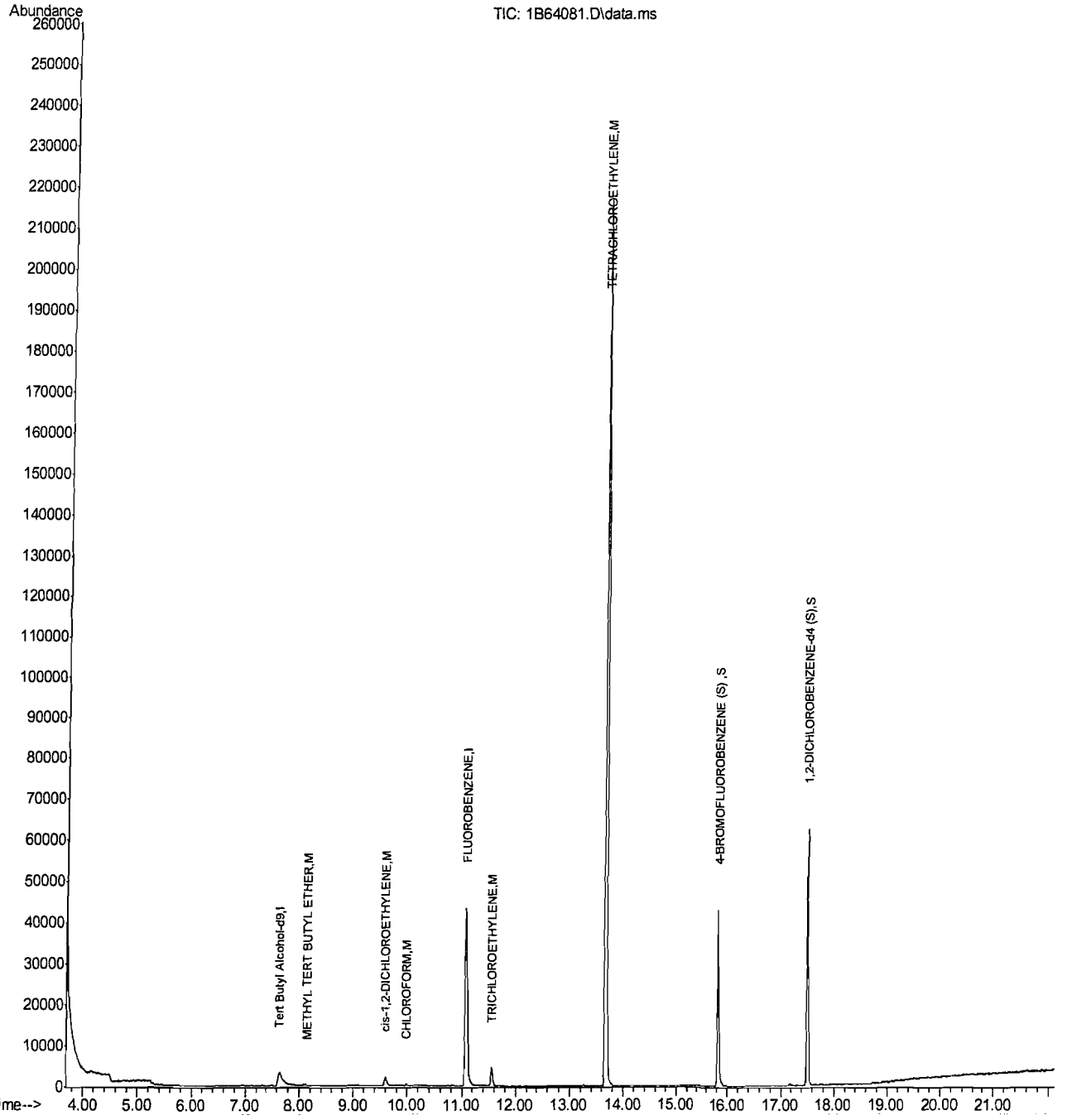
6.1.2 6

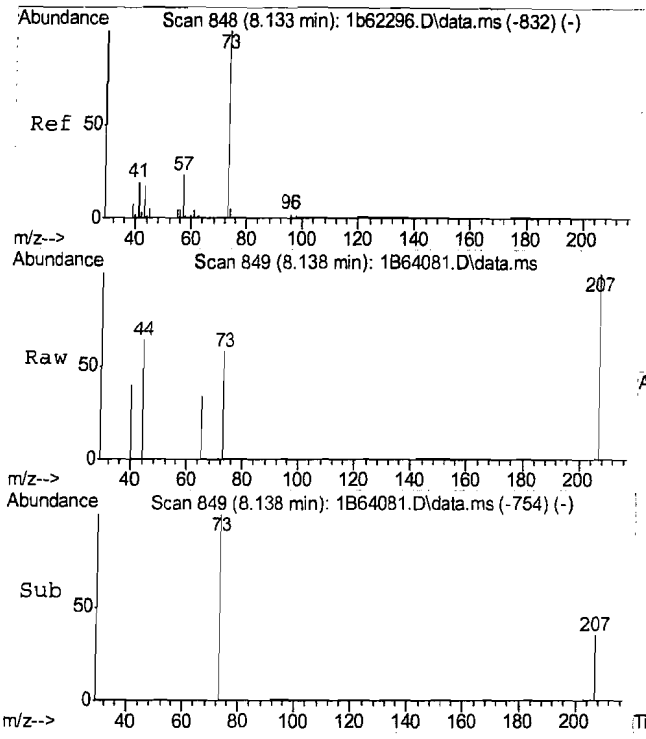
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64081.D
Acq On : 29 Dec 2011 7:16 am
Operator : mohui
Sample : ja95756-2
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 41 Sample Multiplier: 1

Quant Time: Dec 29 09:19:28 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.1.2
6

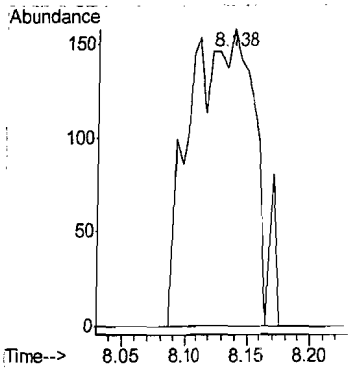


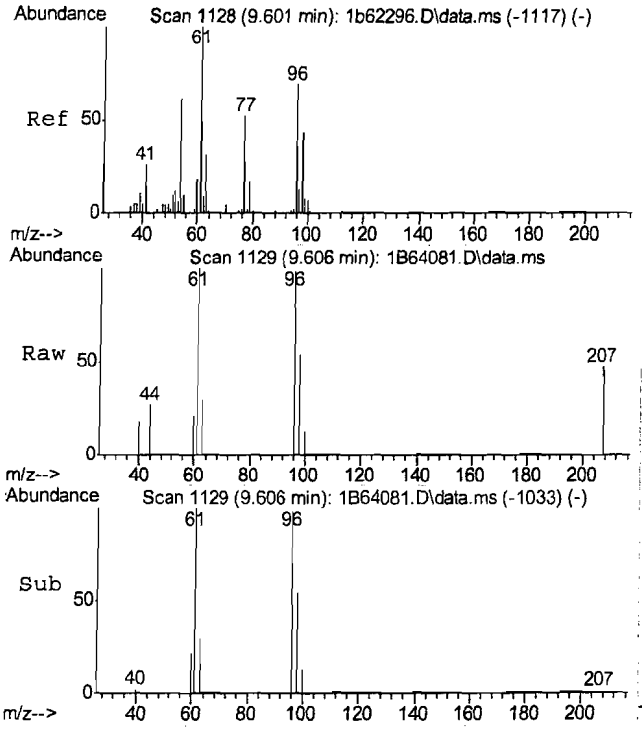


#24
METHYL TERT BUTYL ETHER
Concen: 0.06 PPb
RT: 8.138 min Scan# 849
Delta R.T. 0.000 min
Lab File: 1B64081.D
Acq: 29 Dec 2011 7:16 am

Tgt Ion: 73 Resp: 586

Ion	Ratio	Lower	Upper
73	100		
57	0.0	0.0	52.6
43	0.0	0.0	47.2

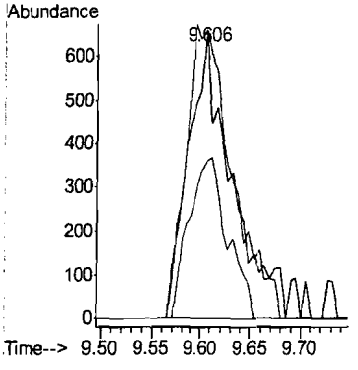




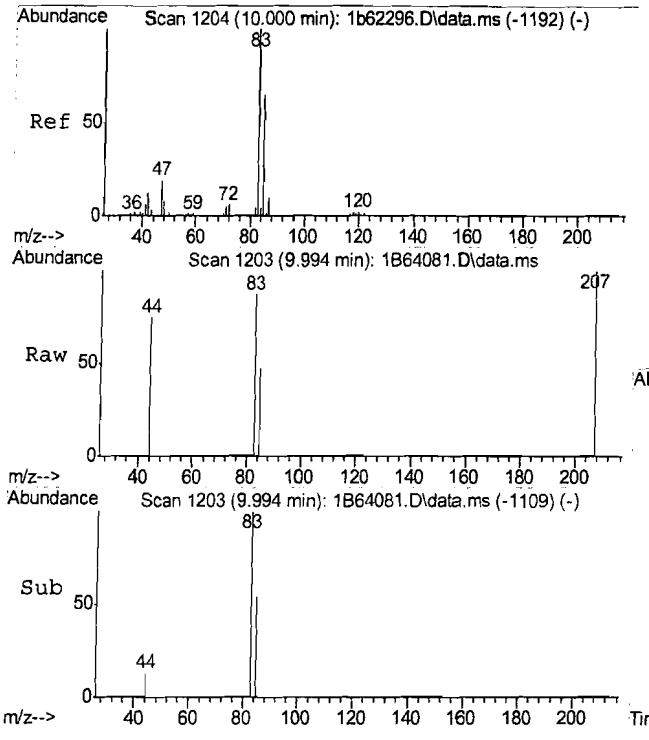
#32
cis-1,2-DICHLOROETHYLENE
Concen: 0.59 PPb
RT: 9.606 min Scan# 1129
Delta R.T. 0.005 min
Lab File: 1B64081.D
Acq: 29 Dec 2011 7:16 am

Tgt Ion: 96 Resp: 1999

Ion	Ratio	Lower	Upper
96	100		
61	100.8	101.8	189.0#
98	54.4	44.0	81.8



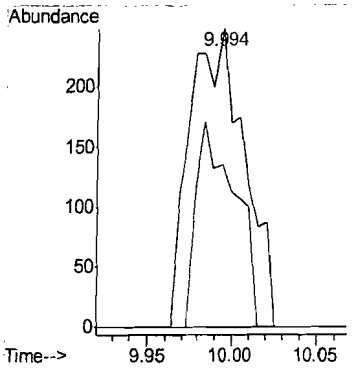
6.1.2

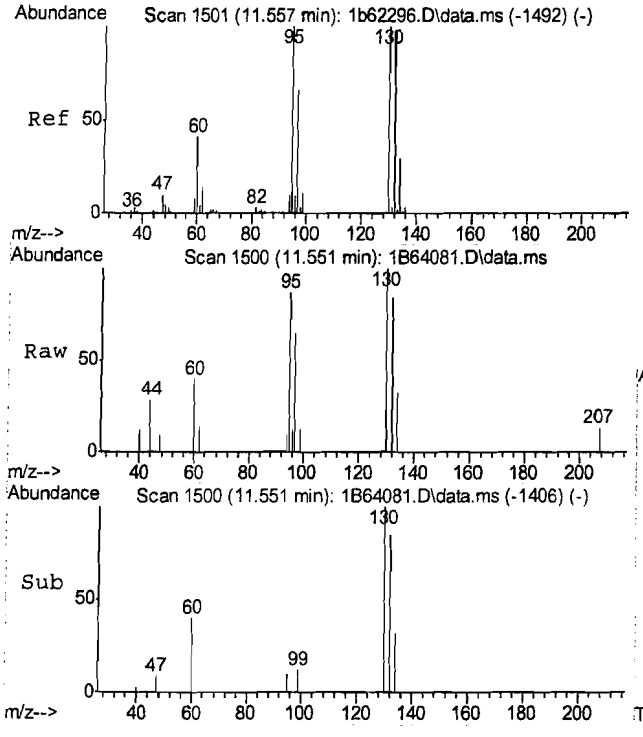


#37
CHLOROFORM
Concen: 0.11 PPb
RT: 9.994 min Scan# 1203
Delta R.T. -0.005 min
Lab File: 1B64081.D
Acq: 29 Dec 2011 7:16 am

Tgt Ion: 83 Resp: 565

Ion	Ratio	Lower	Upper
83	100		
85	54.4	34.3	94.3
47	0.0	0.0	50.5

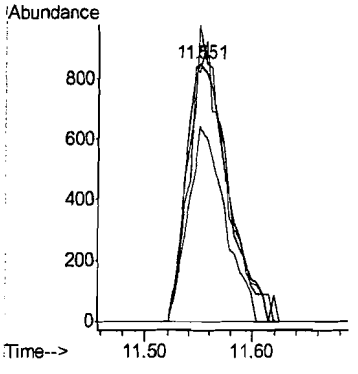




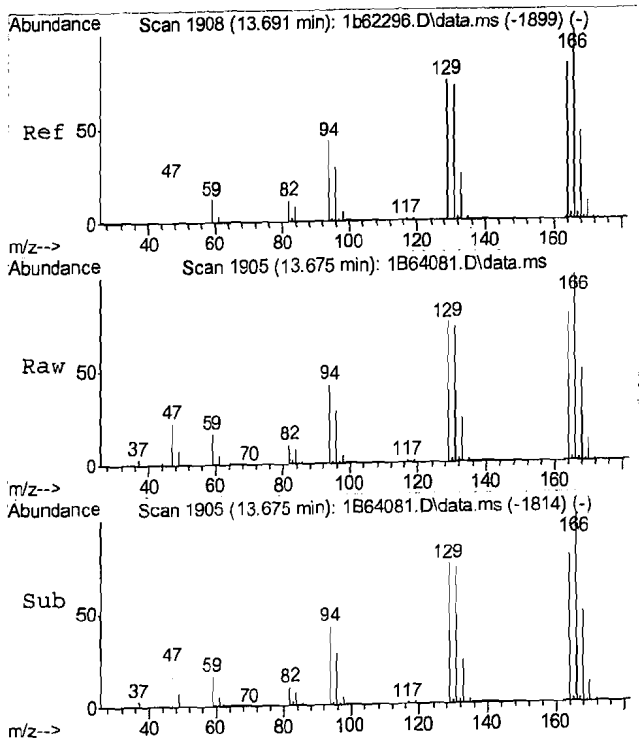
#47
TRICHLOROETHYLENE
Concen: 0.81 PPb
RT: 11.551 min Scan# 1500
Delta R.T. -0.005 min
Lab File: 1B64081.D
Acq: 29 Dec 2011 7:16 am

Tgt Ion: 95 Resp: 2392

Ion	Ratio	Lower	Upper
95	100		
130	115.1	70.0	130.0
132	96.5	67.9	127.9
97	75.4	35.7	95.7



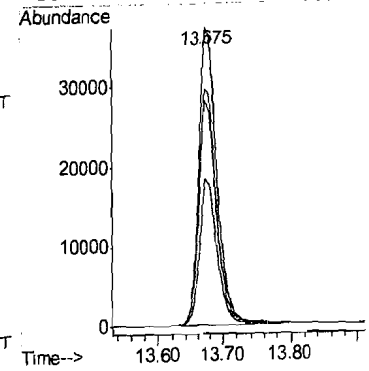
6.1.2
6



#65
TETRACHLOROETHYLENE
Concen: 23.75 PPb
RT: 13.675 min Scan# 1905
Delta R.T. -0.021 min
Lab File: 1B64081.D
Acq: 29 Dec 2011 7:16 am

Tgt Ion:166 Resp: 75794

Ion	Ratio	Lower	Upper
166	100		
168	49.3	17.1	77.1
129	75.4	44.9	104.9
164	79.0	52.5	112.5



6.1.2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64082.D
Acq On : 29 Dec 2011 7:48 am
Operator : mohui
Sample : ja95756-3
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 29 09:20:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.645	65	14973	50.00	PPB	-0.03
4) FLUOROBENZENE	11.079	96	59578	5.00	PPb	-0.02
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	15.830	95	20318	4.67	PPb	-0.01
Spiked Amount 5.000	Range 77 - 115		Recovery = 93.40%			
6) 1,2-DICHLOROBENZENE-d4...	17.507	152	20292	4.46	PPb	-0.01
Spiked Amount 5.000	Range 78 - 114		Recovery = 89.20%			
Target Compounds						Qvalue
37) CHLOROFORM	9.984	83	2023	0.39	PPb	91
52) BROMODICHLOROMETHANE	12.091	83	5880	1.50	PPb	97
66) DIBROMOCHLOROMETHANE	13.916	129	9408	3.00	PPb	99
74) BROMOFORM	15.510	173	5818	2.71	PPb	97

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

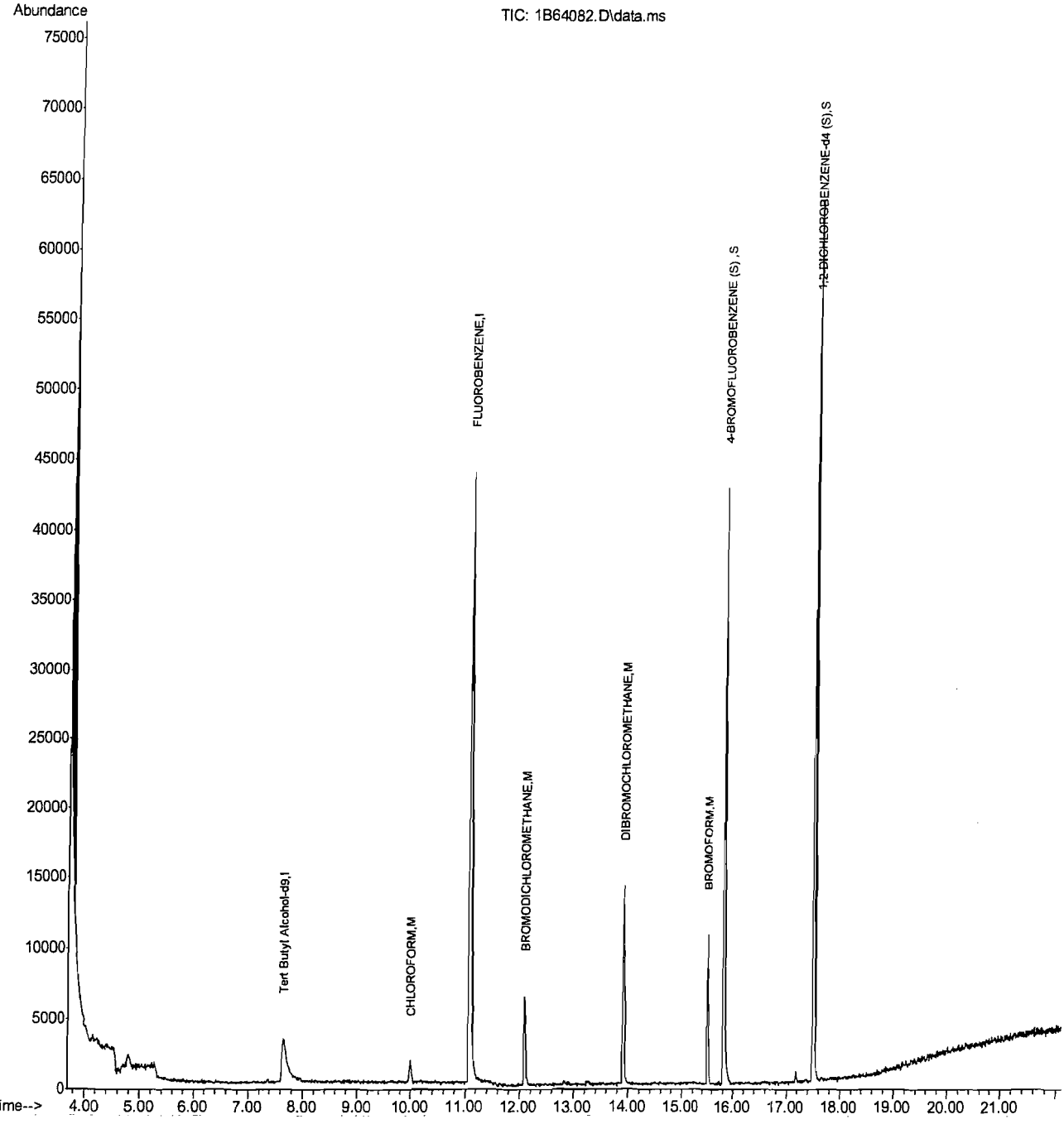
6.1.3
6

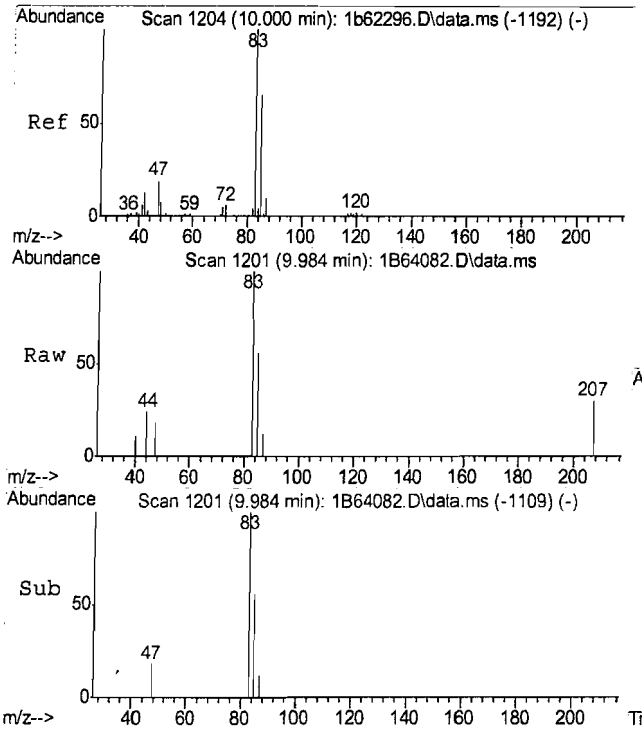
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64082.D
Acq On : 29 Dec 2011 7:48 am
Operator : mohui
Sample : ja95756-3
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 42 Sample Multiplier: 1

Quant Time: Dec 29 09:20:02 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.1.3

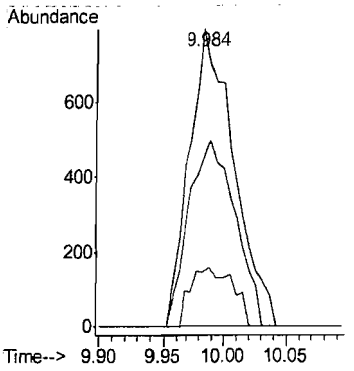


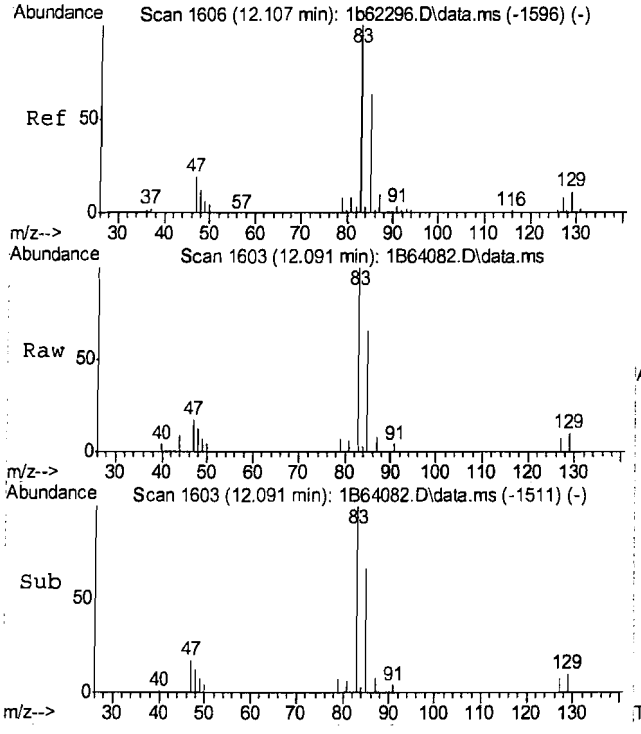


#37
CHLOROFORM
Concen: 0.39 PPb
RT: 9.984 min Scan# 1201
Delta R.T. -0.016 min
Lab File: 1B64082.D
Acq: 29 Dec 2011 7:48 am

Tgt Ion: 83 Resp: 2023

Ion	Ratio	Lower	Upper
83	100		
85	56.4	34.3	94.3
47	18.1	0.0	50.5

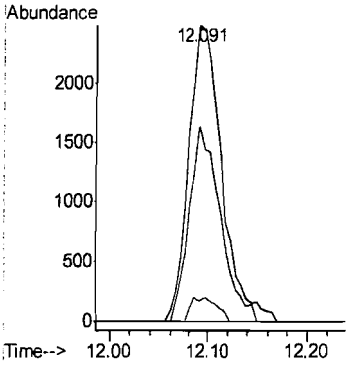




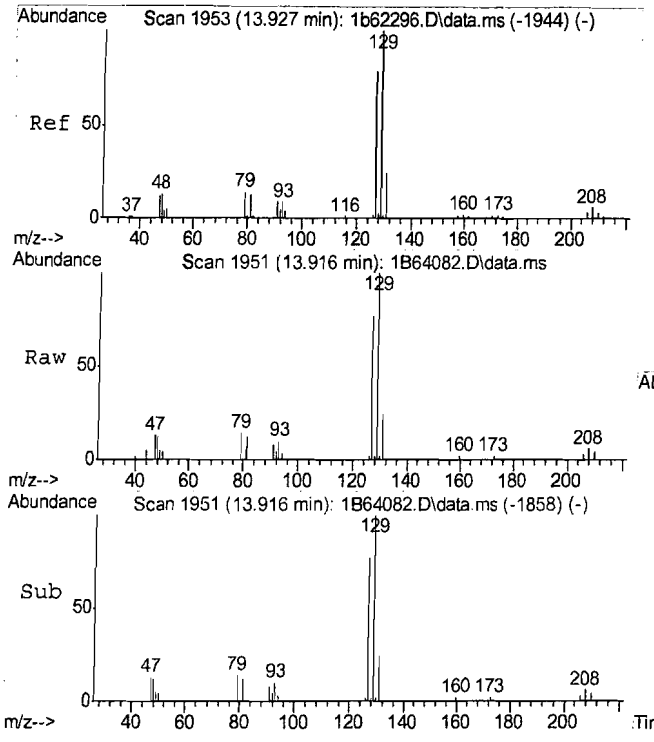
#52
BROMODICHLOROMETHANE
Concen: 1.50 PPb
RT: 12.091 min Scan# 1603
Delta R.T. -0.016 min
Lab File: 1B64082.D
Acq: 29 Dec 2011 7:48 am

Tgt Ion: 83 Resp: 5880

Ion	Ratio	Lower	Upper
83	100		
85	65.5	32.9	92.9
127	6.7	0.0	38.2



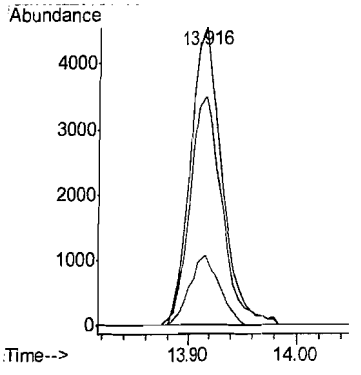
6.1.3 6

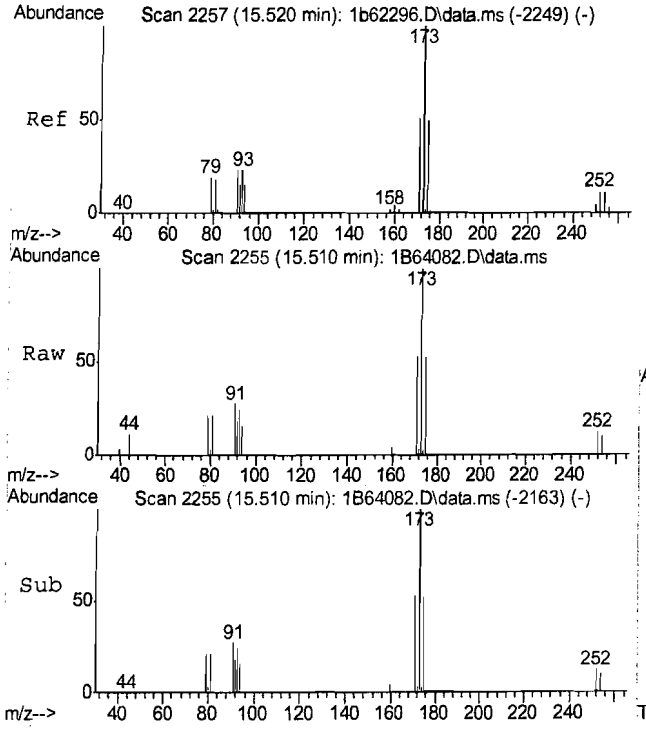


#66
DIBROMOCHLOROMETHANE
Concen: 3.00 PPb
RT: 13.916 min Scan# 1951
Delta R.T. -0.011 min
Lab File: 1B64082.D
Acq: 29 Dec 2011 7:48 am

Tgt Ion:129 Resp: 9408

Ion	Ratio	Lower	Upper
129	100		
127	77.0	48.0	108.0
131	23.7	0.0	53.8

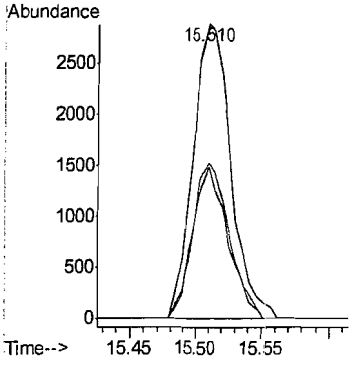




#74
BROMOFORM
Concen: 2.71 PPb
RT: 15.510 min Scan# 2255
Delta R.T. -0.016 min
Lab File: 1B64082.D
Acq: 29 Dec 2011 7:48 am

Tgt Ion:173 Resp: 5818

Ion	Ratio	Lower	Upper
173	100		
175	51.9	19.8	79.8
171	53.0	21.1	81.1



6.1.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64083.D
Acq On : 29 Dec 2011 8:16 am
Operator : mohui
Sample : ja95756-4
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Dec 29 09:20:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.650	65	14894	50.00	PPB	-0.03
4) FLUOROBENZENE	11.074	96	58728	5.00	PPb	-0.02
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	15.830	95	19540	4.56	PPb	-0.01
Spiked Amount 5.000	Range 77 - 115		Recovery = 91.20%			
6) 1,2-DICHLOROBENZENE-d4...	17.502	152	19584	4.37	PPb	-0.02
Spiked Amount 5.000	Range 78 - 114		Recovery = 87.40%			
Target Compounds						Qvalue

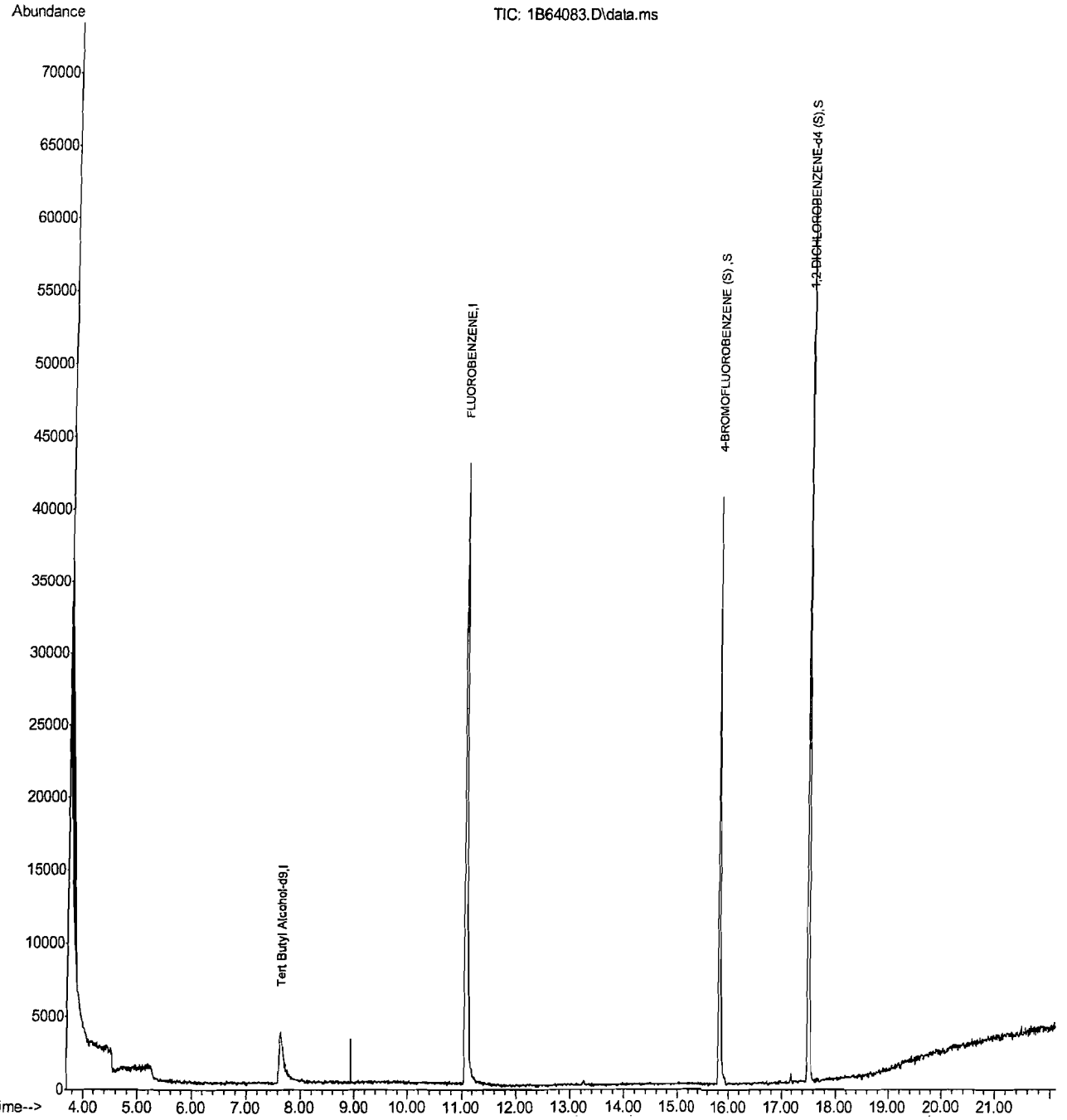
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.1.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64083.D
Acq On : 29 Dec 2011 8:16 am
Operator : mohui
Sample : ja95756-4
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 43 Sample Multiplier: 1

Quant Time: Dec 29 09:20:20 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64244.D
Acq On : 3 Jan 2012 7:00 pm
Operator : mohui
Sample : ja95756-5
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 04 08:35:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.640	65	15157	50.00	PPB	-0.04
4) FLUOROBENZENE	11.074	96	60944	5.00	PPb	-0.02
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	15.824	95	20672	4.64	PPb	-0.02
Spiked Amount 5.000	Range 77 - 115		Recovery = 92.80%			
6) 1,2-DICHLOROBENZENE-d4...	17.502	152	20260	4.35	PPb	-0.02
Spiked Amount 5.000	Range 78 - 114		Recovery = 87.00%			
Target Compounds						Qvalue
32) cis-1,2-DICHLOROETHYLENE	9.611	96	1454	0.42	PPb	81
47) TRICHLOROETHYLENE	11.546	95	2232	0.74	PPb	97
65) TETRACHLOROETHYLENE	13.685	166	255	0.08	PPb	96

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

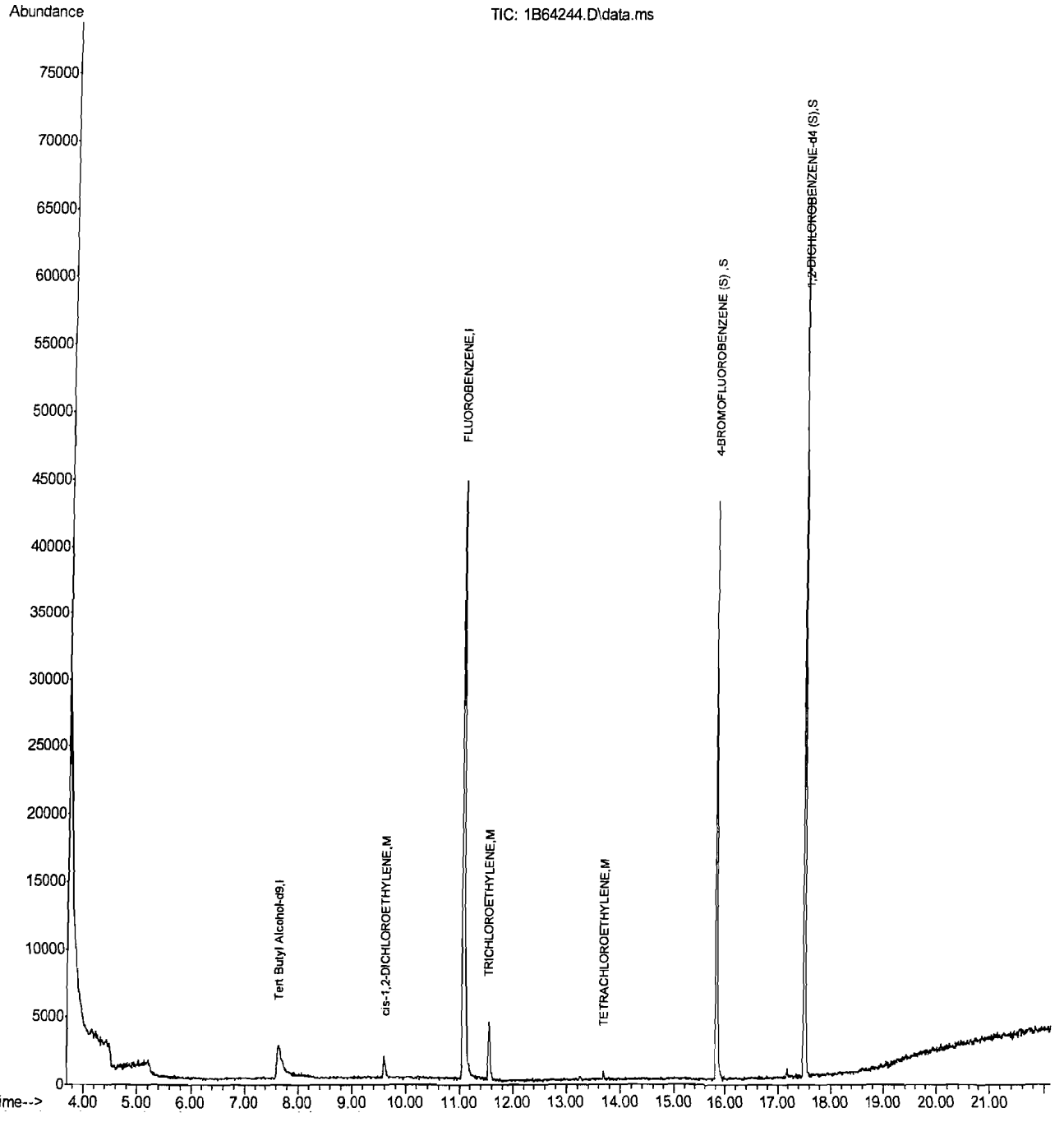
6.1.5 6

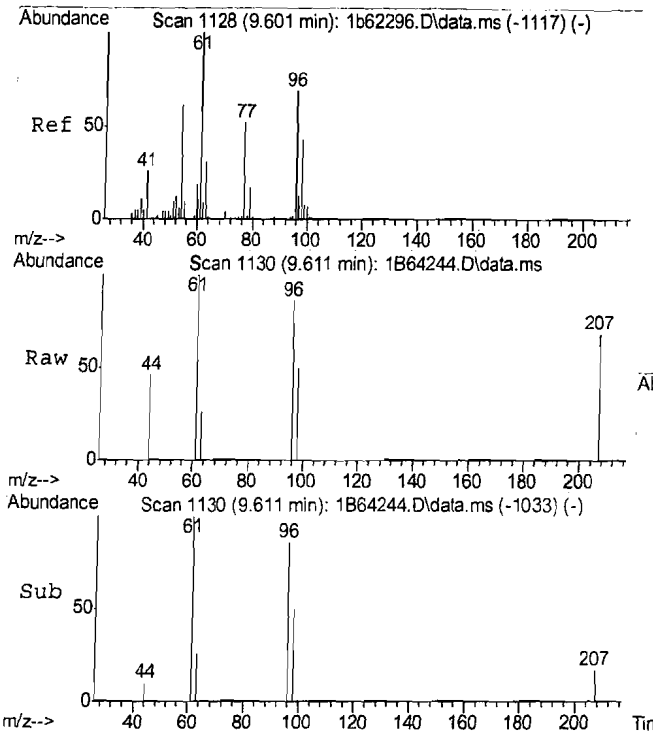
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64244.D
Acq On : 3 Jan 2012 7:00 pm
Operator : mohui
Sample : ja95756-5
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Jan 04 08:35:49 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.1.5 6

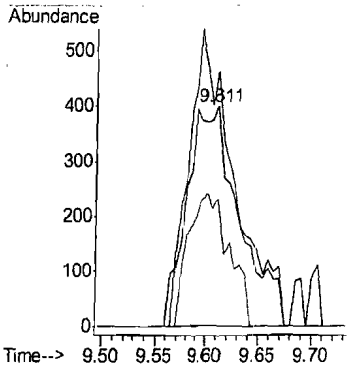


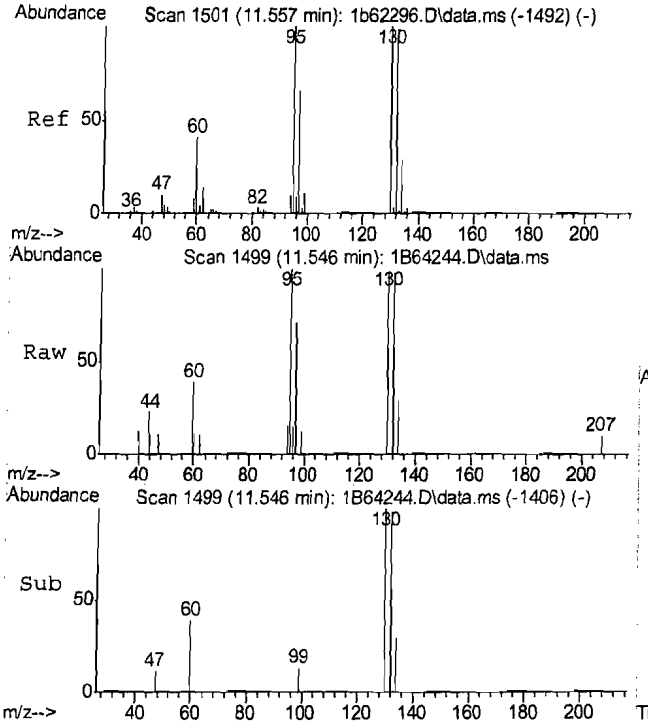


#32
cis-1,2-DICHLOROETHYLENE
Concen: 0.42 PPb
RT: 9.611 min Scan# 1130
Delta R.T. 0.010 min
Lab File: 1B64244.D
Acq: 3 Jan 2012 7:00 pm

Tgt Ion: 96 Resp: 1454

Ion	Ratio	Lower	Upper
96	100		
61	115.8	101.8	189.0
98	57.8	44.0	81.8

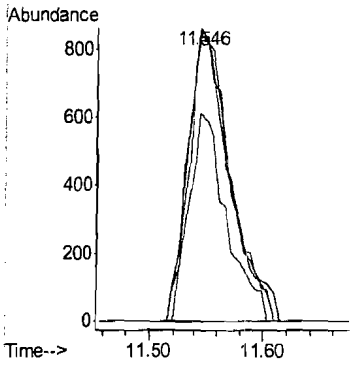




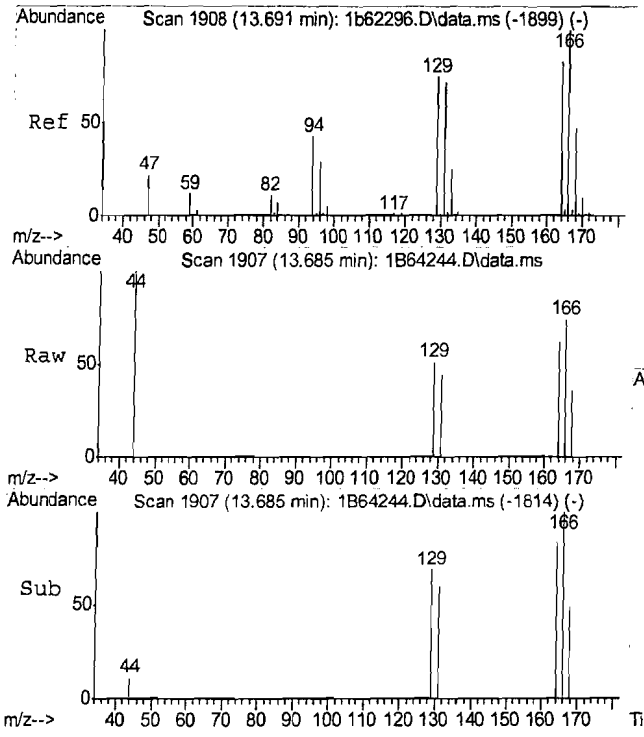
#47
TRICHLOROETHYLENE
Concen: 0.74 PPb
RT: 11.546 min Scan# 1499
Delta R.T. -0.011 min
Lab File: 1B64244.D
Acq: 3 Jan 2012 7:00 pm

Tgt Ion: 95 Resp: 2232

Ion	Ratio	Lower	Upper
95	100		
130	98.0	70.0	130.0
132	95.7	67.9	127.9
97	71.1	35.7	95.7



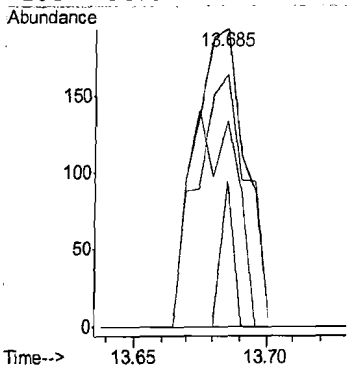
6.1.5
6



#65
TETRACHLOROETHYLENE
Concen: 0.08 PPb
RT: 13.685 min Scan# 1907
Delta R.T. -0.011 min
Lab File: 1B64244.D
Acq: 3 Jan 2012 7:00 pm

Tgt Ion:166 Resp: 255

Ion	Ratio	Lower	Upper
166	100		
168	48.7	17.1	77.1
129	68.9	44.9	104.9
164	84.5	52.5	112.5



6.1.5 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64245.D
Acq On : 3 Jan 2012 7:32 pm
Operator : mohui
Sample : ja95756-6
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 08:36:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.635	65	12725	50.00	PPB	-0.04
4) FLUOROBENZENE	11.074	96	61269	5.00	PPb	-0.02
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	15.824	95	20388	4.56	PPb	-0.02
Spiked Amount 5.000	Range 77 - 115		Recovery = 91.20%			
6) 1,2-DICHLOROBENZENE-d4...	17.502	152	20357	4.35	PPb	-0.02
Spiked Amount 5.000	Range 78 - 114		Recovery = 87.00%			
Target Compounds						Qvalue
37) CHLOROFORM	9.984	83	811	0.15	PPb	78
65) TETRACHLOROETHYLENE	13.675	166	1803	0.55	PPb	93

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

6.1.6

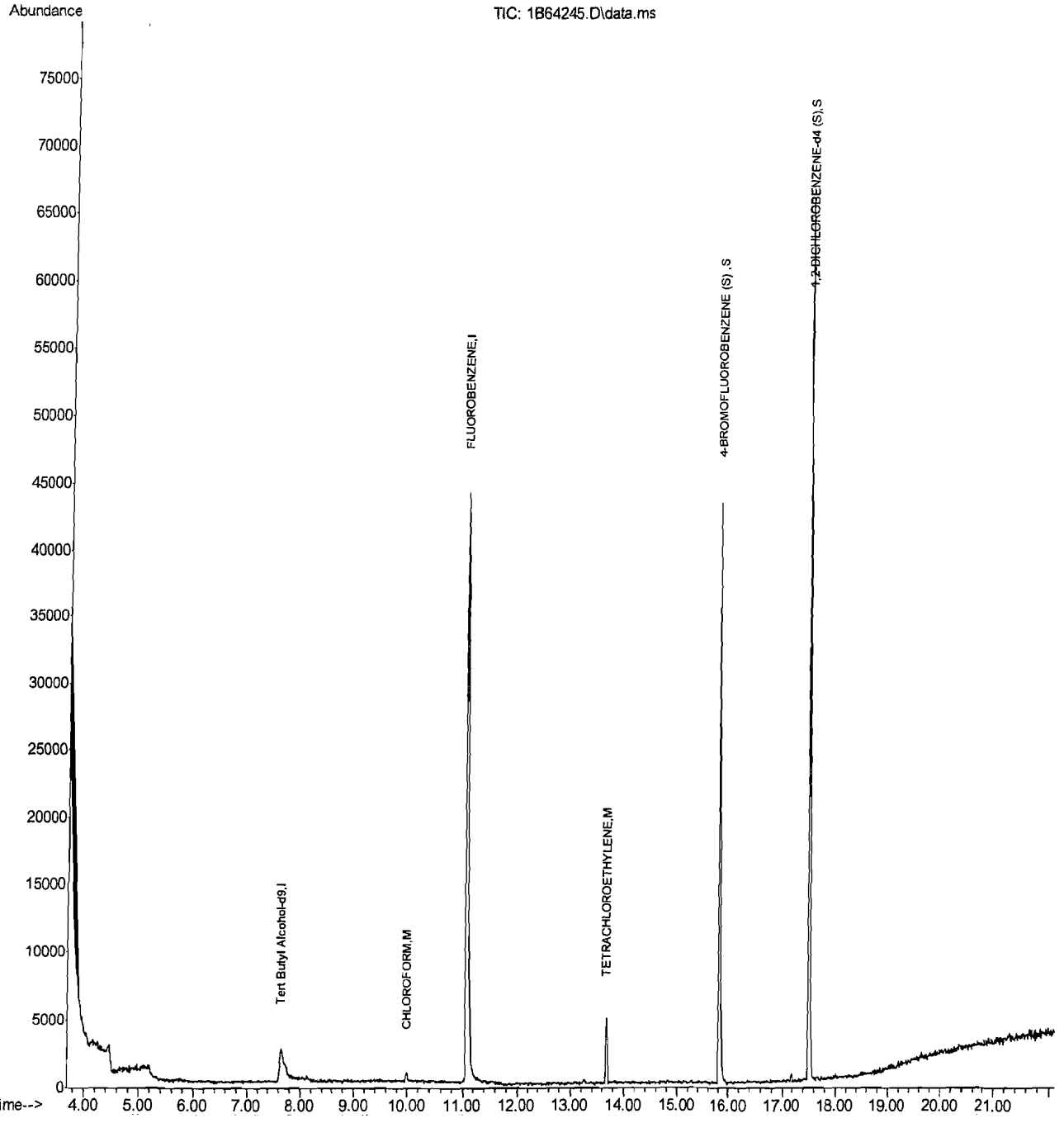
6

Quantitation Report (QT Reviewed)

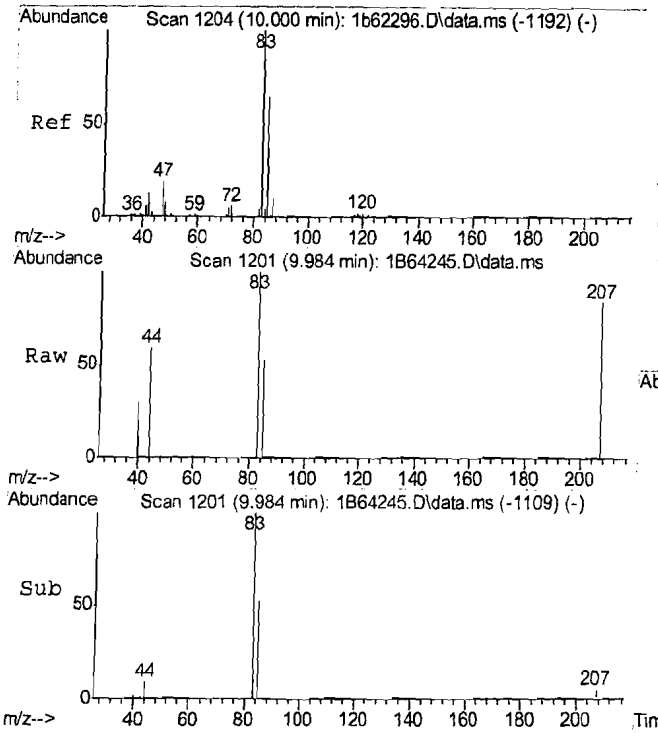
Data Path : C:\msdchem\1\DATA\
Data File : 1B64245.D
Acq On : 3 Jan 2012 7:32 pm
Operator : mohui
Sample : ja95756-6
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Jan 04 08:36:15 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.1.6



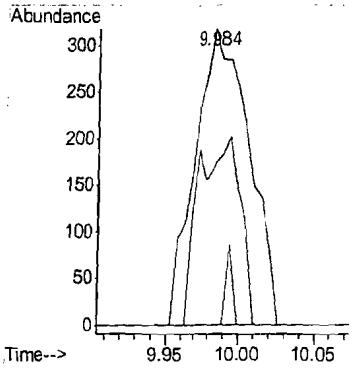
M1B2865.M Wed Jan 04 08:40:16 2012 RPT1

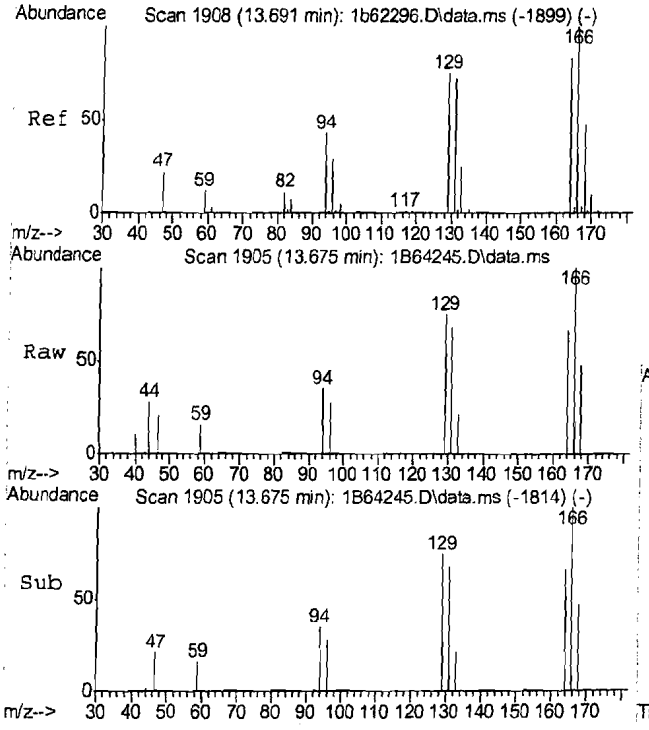


#37
CHLOROFORM
Concen: 0.15 PPb
RT: 9.984 min Scan# 1201
Delta R.T. -0.016 min
Lab File: 1B64245.D
Acq: 3 Jan 2012 7:32 pm

Tgt Ion: 83 Resp: 811

Ion	Ratio	Lower	Upper
83	100		
85	52.8	34.3	94.3
47	0.0	0.0	50.5

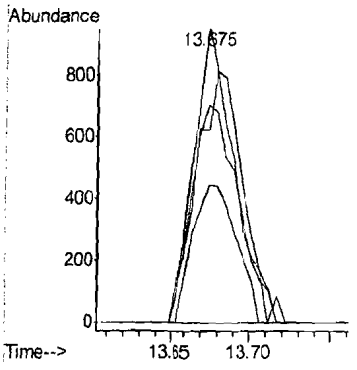




#65
TETRACHLOROETHYLENE
Concen: 0.55 PPb
RT: 13.675 min Scan# 1905
Delta R.T. -0.021 min
Lab File: 1B64245.D
Acq: 3 Jan 2012 7:32 pm

Tgt Ion:166 Resp: 1803

Ion	Ratio	Lower	Upper
166	100		
168	47.0	17.1	77.1
129	74.8	44.9	104.9
164	66.0	52.5	112.5



6.1.6 9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64246.D
Acq On : 3 Jan 2012 8:03 pm
Operator : mohui
Sample : ja95756-7
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 04 08:36:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.635	65	15386	50.00	PPB	-0.04
4) FLUOROBENZENE	11.074	96	60907	5.00	PPb	-0.02
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	15.825	95	20794	4.67	PPb	-0.02
Spiked Amount 5.000	Range 77 - 115		Recovery = 93.40%			
6) 1,2-DICHLOROBENZENE-d4...	17.502	152	20586	4.43	PPb	-0.02
Spiked Amount 5.000	Range 78 - 114		Recovery = 88.60%			
Target Compounds						Qvalue

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

6.1.7 9

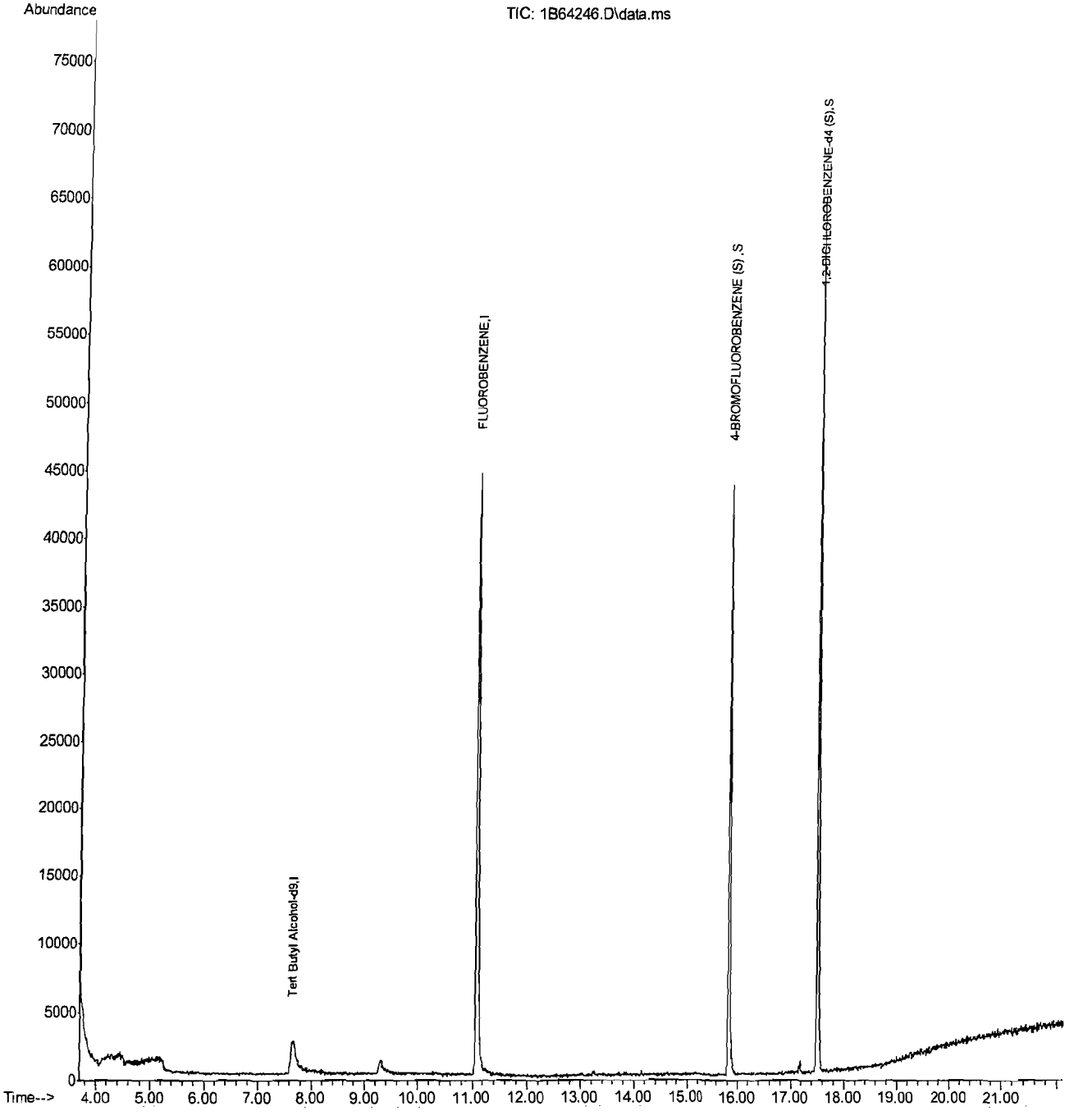
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64246.D
Acq On : 3 Jan 2012 8:03 pm
Operator : mohui
Sample : ja95756-7
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Jan 04 08:36:27 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.1.7

6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64247.D
Acq On : 3 Jan 2012 8:35 pm
Operator : mohui
Sample : ja95756-8
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 08:36:48 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.640	65	14307	50.00	PPB	-0.04
4) FLUOROBENZENE	11.069	96	60329	5.00	PPb	-0.03
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	15.825	95	20650	4.69	PPb	-0.02
Spiked Amount 5.000	Range 77 - 115		Recovery = 93.80%			
6) 1,2-DICHLOROBENZENE-d4...	17.502	152	20492	4.45	PPb	-0.02
Spiked Amount 5.000	Range 78 - 114		Recovery = 89.00%			
Target Compounds						Qvalue

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

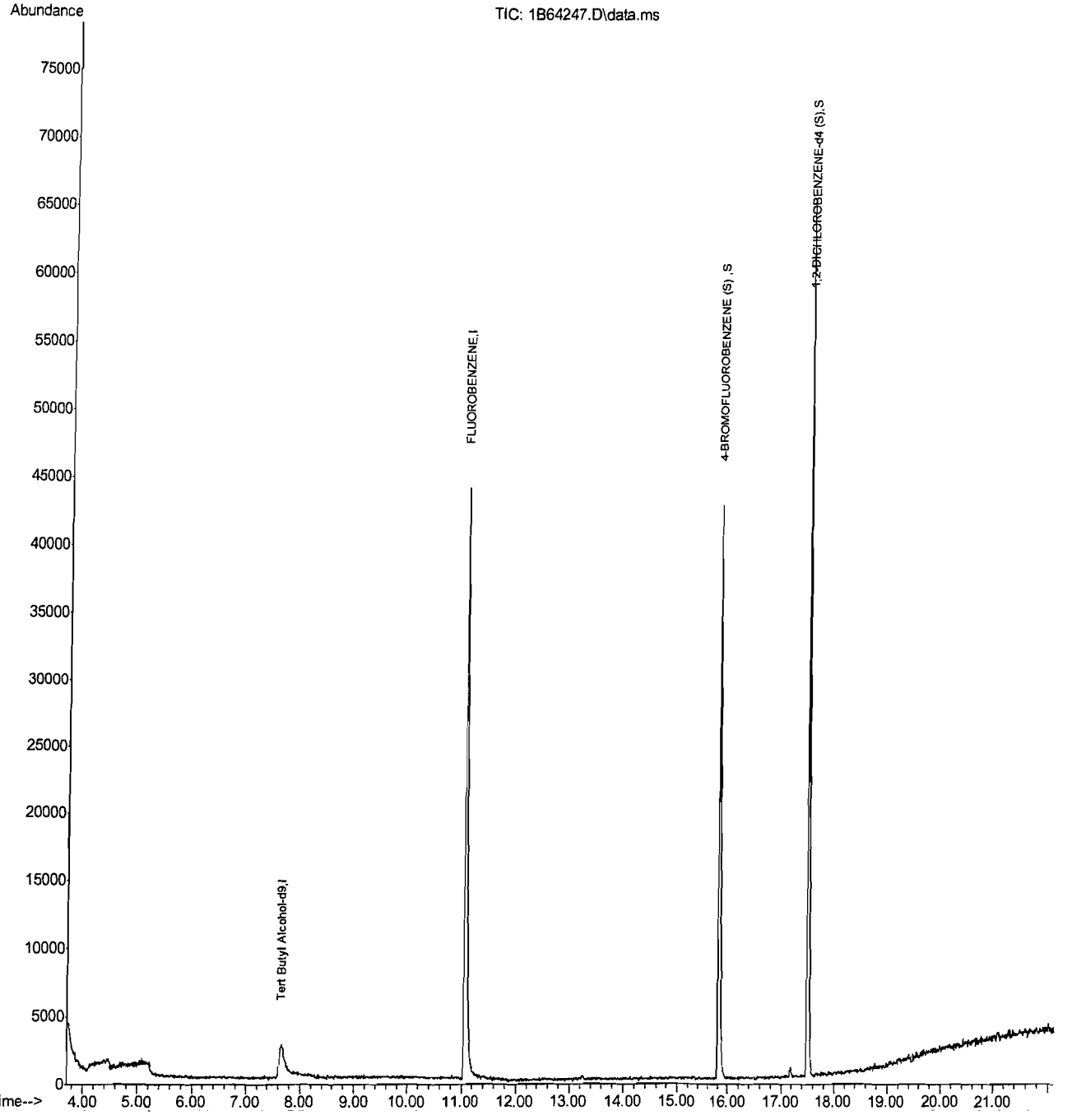
6.1.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64247.D
Acq On : 3 Jan 2012 8:35 pm
Operator : mohui
Sample : ja95756-8
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Jan 04 08:36:48 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.1.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64066.D
Acq On : 28 Dec 2011 11:15 pm
Operator : mohui
Sample : mb1
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 29 09:10:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.650	65	16694	50.00	PPB	-0.03
4) FLUOROBENZENE	11.085	96	59100	5.00	PPb	-0.01
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	15.835	95	19828	4.59	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 91.80%			
6) 1,2-DICHLOROBENZENE-d4...	17.513	152	19936	4.42	PPb	0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 88.40%			
Target Compounds						Qvalue

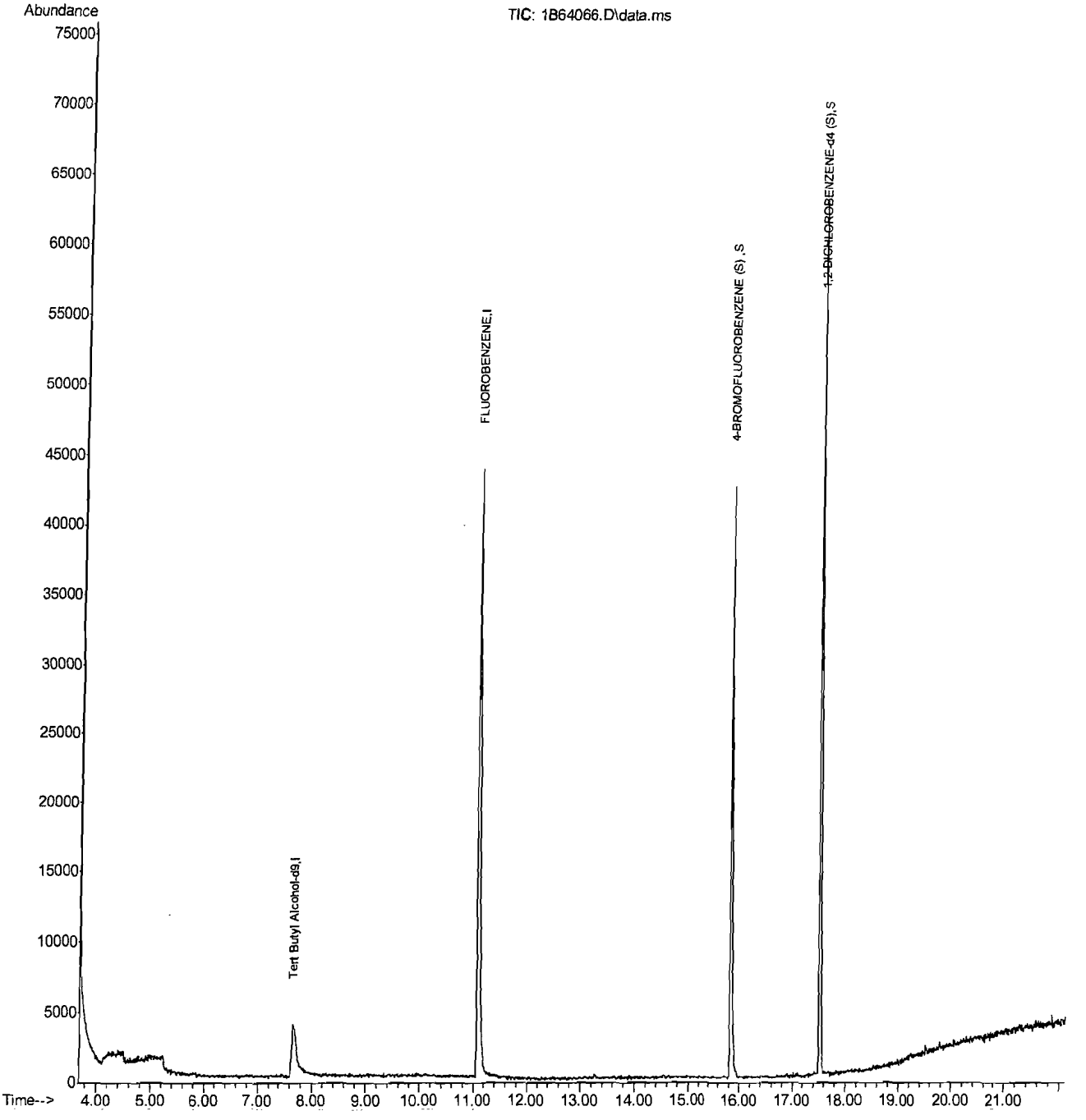
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.2.1 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64066.D
Acq On : 28 Dec 2011 11:15 pm
Operator : mohui
Sample : mb1
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 29 09:10:22 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration



6.2.1 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64227.D
Acq On : 3 Jan 2012 10:00 am
Operator : mohui
Sample : mb1
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 03 12:38:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.656	65	14244	50.00	PPB	-0.02
4) FLUOROBENZENE	11.079	96	61543	5.00	PPb	-0.02
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	15.835	95	21227	4.72	PPb	0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 94.40%			
6) 1,2-DICHLOROBENZENE-d4...	17.507	152	21916	4.66	PPb	-0.01
Spiked Amount 5.000	Range 78 - 114		Recovery = 93.20%			
Target Compounds						Qvalue

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

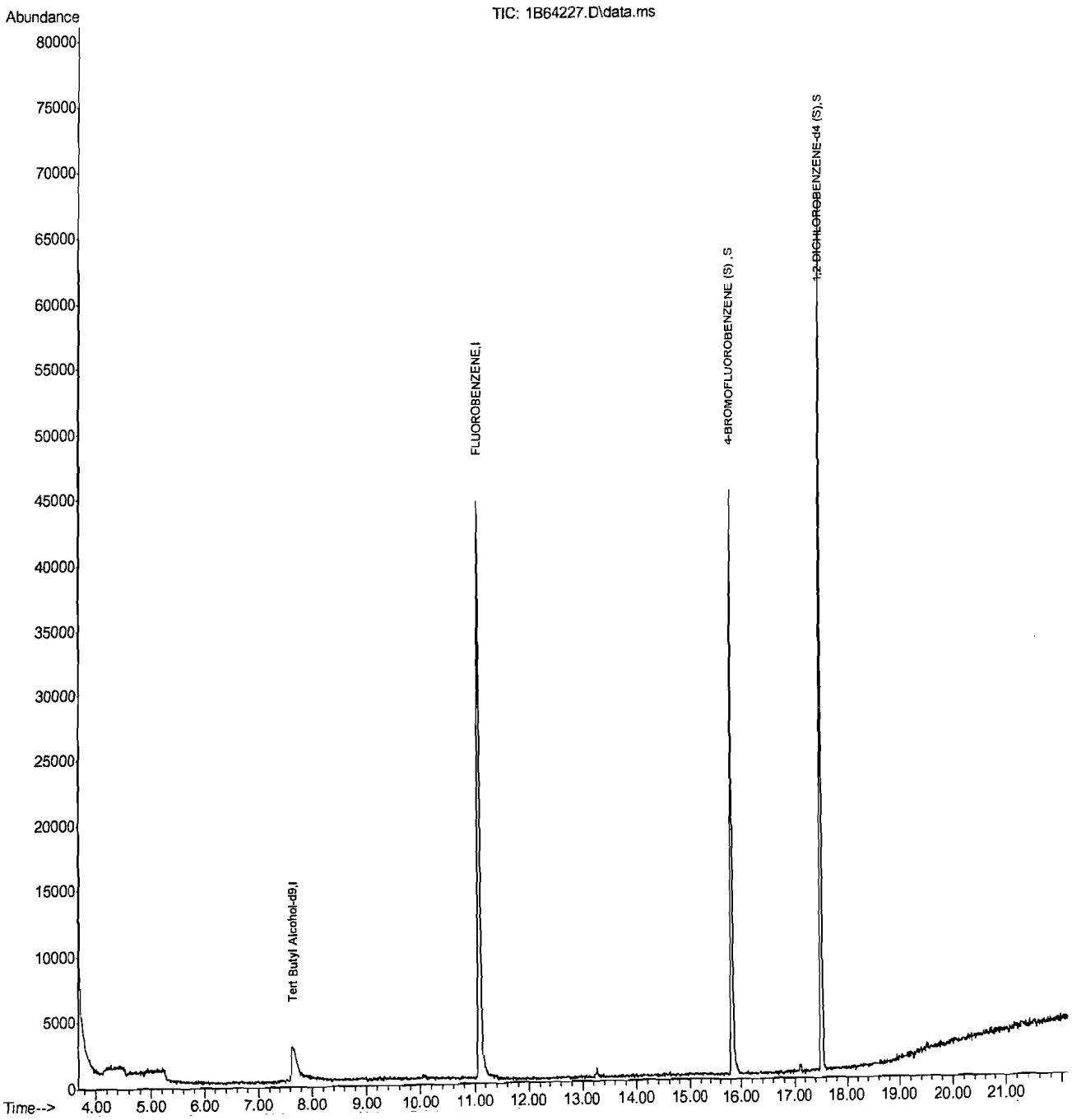
6.2.2 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64227.D
Acq On : 3 Jan 2012 10:00 am
Operator : mohui
Sample : mb1
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jan 03 12:38:18 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.2.2 6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64084.D
Acq On : 29 Dec 2011 8:46 am
Operator : mohui
Sample : bs
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 29 09:20:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.640	65	14746	50.00	PPB		-0.04
4) FLUOROBENZENE	11.074	96	61904	5.00	PPb		-0.02
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.824	95	21681	4.80	PPb		-0.02
Spiked Amount 5.000	Range 77 - 115		Recovery = 96.00%				
6) 1,2-DICHLOROBENZENE-d4...	17.502	152	22126	4.68	PPb		-0.02
Spiked Amount 5.000	Range 78 - 114		Recovery = 93.60%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.782	59	11022	25.13	PPb		92
3) 1,4-Dioxane	11.913	88	4719	144.31	PPB		89
7) DICHLORODIFLUOROMETHANE	3.907	85	5669	1.83	PPb		99
8) CHLOROMETHANE	4.232	50	10601	2.21	PPb		98
9) VINYL CHLORIDE	4.500	62	9106	2.15	PPb		99
10) BROMOMETHANE	5.218	94	6603	2.24	PPb		97
11) CHLOROETHANE	5.433	64	5993	2.37	PPb		93
12) TRICHLOROFLUOROMETHANE	5.973	101	7466	1.93	PPb		91
13) ETHYL ETHER	6.450	45	9996	5.00	PPb		96
14) ACROLEIN	6.660	56	32186	39.11	PPb		100
15) 1,1-DICHLOROETHYLENE	6.901	96	12728	5.10	PPb		97
16) FREON 113	6.901	151	9163	5.42	PPb		96
17) ACETONE	6.932	58	5481	20.53	PPb		89
18) IODOMETHANE	7.179	142	23234	4.99	PPb		97
19) CARBON DISULFIDE	7.362	76	51415	5.58	PPb		100
20) METHYL ACETATE	7.530	74	3022	4.66	PPb	#	1
21) ALLYL CHLORIDE	7.483	76	8071	4.49	PPb		96
22) METHYLENE CHLORIDE	7.672	84	18481	5.13	PPb		98
23) ACRYLONITRILE	8.012	53	37672	25.17	PPb		98
24) METHYL TERT BUTYL ETHER	8.117	73	105016	10.22	PPb		99
25) trans-1,2-DICHLOROETHY...	8.154	61	21997	5.25	PPb		97
26) HEXANE	8.568	57	17690	5.49	PPb		96
27) 1,1-DICHLOROETHANE	8.757	63	28555	5.23	PPb		98
28) DI-ISOPROPYL ETHER	8.820	45	52302	4.85	PPb		99
29) ETHYL TERT-BUTYL ETHER	9.334	59	52872	5.23	PPb		98
30) 2-BUTANONE	9.538	72	7677	19.79	PPb		93
31) 2,2-DICHLOROPROPANE	9.596	77	21683	5.02	PPb		99
32) cis-1,2-DICHLOROETHYLENE	9.580	96	18759	5.31	PPb		93
33) PROPIONITRILE	9.575	54	30602	52.33	PPb		99
34) METHYLACRYLATE	9.711	55	12824	4.30	PPb		100
35) METHACRYLONITRILE	9.816	41	9594	4.54	PPb		99
36) BROMOCHLOROMETHANE	9.905	128	9058	5.30	PPb		93
37) CHLOROFORM	9.978	83	27548	5.17	PPb		98
38) TETRAHYDROFURAN	9.999	42	6950	4.79	PPb		99
39) 1,1,1-TRICHLOROETHANE	10.288	97	20397	5.01	PPb		99
40) CYCLOHEXANE	10.414	84	20580	5.49	PPb	#	100
41) 1-CHLOROBUTANE	10.398	56	52339	5.32	PPb		94
42) 1,1-DICHLOROPROPENE	10.498	75	19784	5.30	PPb		97
43) CARBON TETRACHLORIDE	10.529	117	16674	5.13	PPb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64084.D
Acq On : 29 Dec 2011 8:46 am
Operator : mohui
Sample : bs
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 29 09:20:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.3.1 6

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.733	62	22048	5.24	PPb	97
45) BENZENE	10.760	78	67294	5.39	PPb	99
46) TERT AMYL METHYL ETHER	10.833	73	54653	5.48	PPB	97
47) TRICHLOROETHYLENE	11.541	95	15889	5.19	PPb	99
48) METHYLCYCLOHEXANE	11.814	83	23720	5.31	PPb	99
49) METHYL METHACRYLATE	11.829	69	17237	4.88	PPb	74
50) 1,2-DICHLOROPROPANE	11.777	63	18076	5.40	PPb	98
51) DIBROMOMETHANE	11.939	93	11417	5.30	PPb	98
52) BROMODICHLOROMETHANE	12.086	83	20699	5.08	PPb	95
53) CHLOROACETONITRILE	12.254	75	6245	29.21	PPb	93
54) 2-NITROPROPANE	12.275	41	4249	4.36	PPb	90
55) 2-CHLOROETHYL VINYL ETHER	12.354	63	57643	23.32	PPb	97
56) cis-1,3-DICHLOROPROPENE	12.595	75	28108	5.21	PPb	97
57) 4-METHYL-2-PENTANONE	12.689	58	29230	19.60	PPb	99
58) 1,1-DICHLOROPROPANONE	12.784	43	11440	6.22	PPb	95
59) TOLUENE	13.014	92	39993	5.26	PPb	99
60) trans-1,3-DICHLOROPROPENE	13.192	75	25804	5.19	PPb	99
61) ETHYL METHACRYLATE	13.224	69	21259	4.60	PPb	93
62) 1,1,2-TRICHLOROETHANE	13.413	83	14334	5.39	PPb	97
63) 1,3-DICHLOROPROPANE	13.617	76	29604	5.36	PPb	92
64) 2-HEXANONE	13.617	58	27383	19.24	PPb	98
65) TETRACHLOROETHYLENE	13.680	166	15426	4.65	PPb	93
66) DIBROMOCHLOROMETHANE	13.911	129	16232	4.98	PPb	99
67) 1,2-DIBROMOETHANE	14.073	107	16508	5.14	PPb	96
68) CHLOROBENZENE	14.608	112	44690	5.17	PPb	98
69) 1,1,1,2-TETRACHLOROETHANE	14.661	131	15842	5.01	PPb	95
70) ETHYLBENZENE	14.682	91	74761	5.06	PPb	100
71) m,p-XYLENE	14.797	106	59591	10.33	PPb	98
72) o-XYLENE	15.243	106	30019	5.16	PPb	97
73) STYRENE	15.253	104	44645	4.70	PPb	97
74) BROMOFORM	15.510	173	10624	4.77	PPb	97
75) ISOPROPYLBENZENE	15.620	105	74815	5.05	PPb	100
76) BROMOBENZENE	16.039	156	18821	4.97	PPb	98
77) 1,1,2,2-TETRACHLOROETHANE	15.898	83	26006	5.39	PPb	99
78) TRANS-1,4-DICHLORO-2-B...	15.940	53	5076	5.08	PPb	93
79) 1,2,3-TRICHLOROPROPANE	15.977	110	7196	5.05	PPb	94
80) n-PROPYLBENZENE	16.060	91	91699	5.18	PPb	98
81) O-CHLOROTOLUENE	16.218	126	18715	5.19	PPb	92
82) 1,3,5-TRIMETHYLBENZENE	16.223	105	64366	4.98	PPb	99
83) P-CHLOROTOLUENE	16.317	91	59251	5.15	PPb	98
84) tert-BUTYLBENZENE	16.600	119	52880	4.93	PPb	99
85) 1,2,4-TRIMETHYLBENZENE	16.648	105	66369	5.01	PPb	99
86) PENTACHLOROETHANE	16.669	167	11226	5.41	PPb	92
87) sec-BUTYLBENZENE	16.831	105	80933	4.91	PPb	99
88) p-ISOPROPYLTOLUENE	16.957	119	65998	4.84	PPb	99
89) M-DICHLOROBENZENE	17.025	146	37732	5.03	PPb	99
90) P-DICHLOROBENZENE	17.114	146	39132	5.08	PPb	99
91) n-BUTYLBENZENE	17.397	92	34631	4.74	PPb	100
92) O-DICHLOROBENZENE	17.523	146	38214	5.00	PPb	97
93) HEXACHLOROETHANE	17.838	201	9003	4.52	PPb	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64084.D
Acq On : 29 Dec 2011 8:46 am
Operator : mohui
Sample : bs
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 29 09:20:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.315	155	3281	4.07	PPb	87
95) NITROBENZENE	18.525	77	12434	64.45	PPb	95
96) 1,2,4-TRICHLOROBENZENE	19.217	180	24294	4.65	PPb	99
97) HEXACHLOROBUTADIENE	19.353	225	11155	4.33	PPb	99
98) NAPHTHALENE	19.500	128	59364	4.65	PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.762	180	25154	5.06	PPb	98

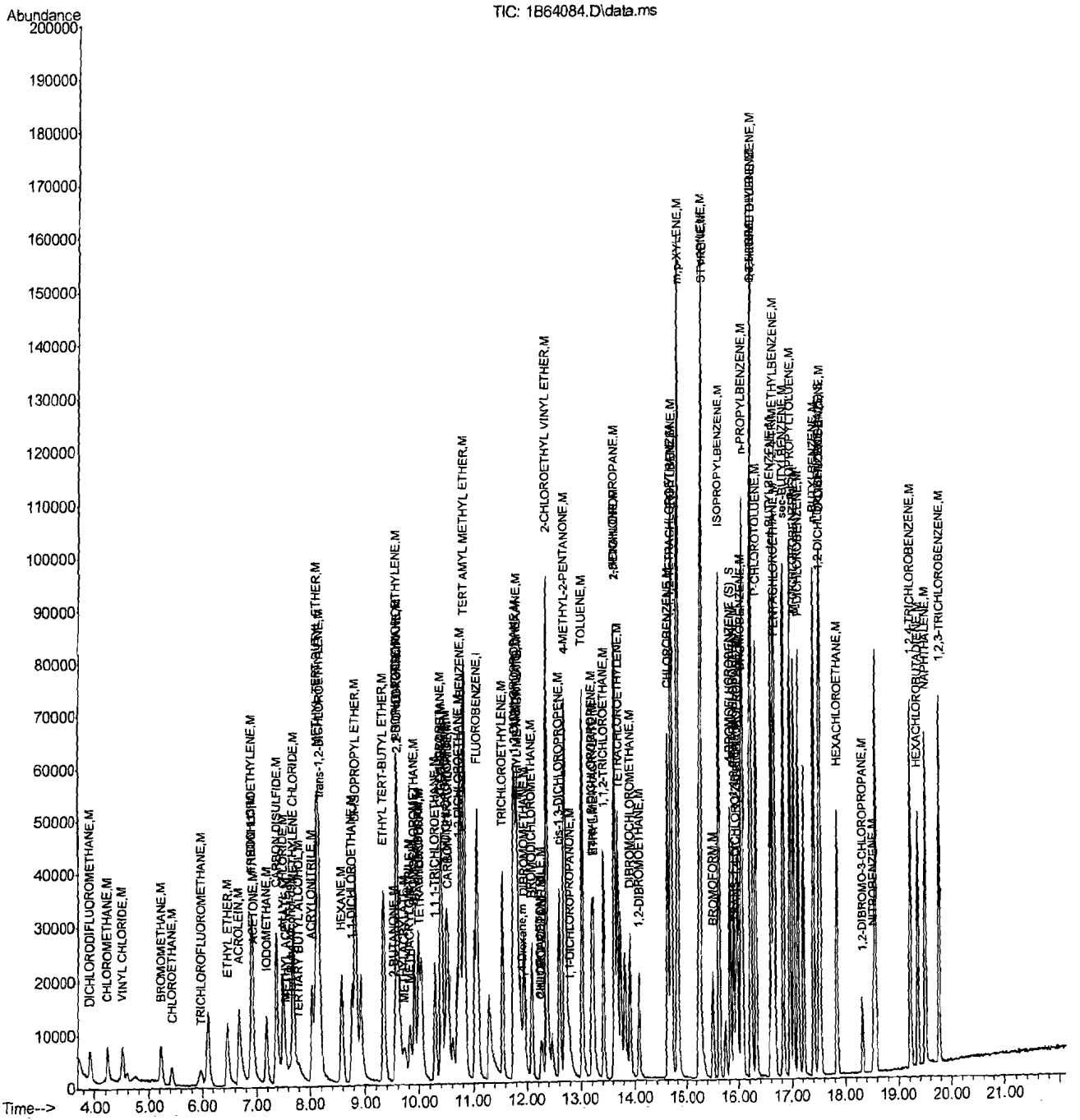
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.3.1 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64084.D
Acq On : 29 Dec 2011 8:46 am
Operator : mohui
Sample : bs
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 44 Sample Multiplier: 1

Quant Time: Dec 29 09:20:36 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration



6.3.1 9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64228.D
Acq On : 3 Jan 2012 10:35 am
Operator : mohui
Sample : bs
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 12:38:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.635	65	16666	50.00	PPB		-0.04
4) FLUOROBENZENE	11.074	96	62514	5.00	PPb		-0.02
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.830	95	22537	4.94	PPb		-0.01
Spiked Amount 5.000	Range 77 - 115		Recovery = 98.80%				
6) 1,2-DICHLOROBENZENE-d4...	17.507	152	23727	4.97	PPb		-0.01
Spiked Amount 5.000	Range 78 - 114		Recovery = 99.40%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.782	59	9276	18.71	PPb		94
3) 1,4-Dioxane	11.918	88	4594	124.30	PPB		83
7) DICHLORODIFLUOROMETHANE	3.907	85	7408	2.36	PPb		93
8) CHLOROMETHANE	4.232	50	10877	2.24	PPb		98
9) VINYL CHLORIDE	4.494	62	10142	2.38	PPb		97
10) BROMOMETHANE	5.218	94	7251	2.43	PPb		92
11) CHLOROETHANE	5.422	64	6048	2.37	PPb		96
12) TRICHLOROFLUOROMETHANE	5.968	101	8557	2.19	PPb		99
13) ETHYL ETHER	6.450	45	10083	4.99	PPb		97
14) ACROLEIN	6.654	56	38940	46.85	PPb		94
15) 1,1-DICHLOROETHYLENE	6.896	96	13544	5.37	PPb		95
16) FREON 113	6.901	151	10172	5.96	PPb		98
17) ACETONE	6.932	58	6071	22.52	PPb		77
18) IODOMETHANE	7.173	142	24389	5.19	PPb		94
19) CARBON DISULFIDE	7.357	76	50045	5.37	PPb		99
20) METHYL ACETATE	7.498	74	3534	5.40	PPb	#	1
21) ALLYL CHLORIDE	7.483	76	9912	5.46	PPb		88
22) METHYLENE CHLORIDE	7.671	84	19208	5.28	PPb		94
23) ACRYLONITRILE	8.012	53	41863	27.69	PPb		95
24) METHYL TERT BUTYL ETHER	8.112	73	111249	10.72	PPb		100
25) trans-1,2-DICHLOROETHY...	8.154	61	22061	5.21	PPb		96
26) HEXANE	8.568	57	19485	5.99	PPb		97
27) 1,1-DICHLOROETHANE	8.757	63	29346	5.33	PPb		98
28) DI-ISOPROPYL ETHER	8.820	45	51200	4.70	PPb		95
29) ETHYL TERT-BUTYL ETHER	9.334	59	54275	5.32	PPb		99
30) 2-BUTANONE	9.538	72	9666	24.68	PPb		86
31) 2,2-DICHLOROPROPANE	9.590	77	21659	4.96	PPb		97
32) cis-1,2-DICHLOROETHYLENE	9.580	96	19298	5.41	PPb		89
33) PROPIONITRILE	9.580	54	33247	56.30	PPb		97
34) METHYLACRYLATE	9.722	55	14515	4.82	PPb		100
35) METHACRYLONITRILE	9.821	41	9886	4.63	PPb		93
36) BROMOCHLOROMETHANE	9.910	128	9631	5.58	PPb		88
37) CHLOROFORM	9.978	83	28179	5.24	PPb		97
38) TETRAHYDROFURAN	9.999	42	7416	5.06	PPb		94
39) 1,1,1-TRICHLOROETHANE	10.293	97	21407	5.21	PPb		97
40) CYCLOHEXANE	10.408	84	21896	5.78	PPb	#	100
41) 1-CHLOROBUTANE	10.398	56	53003	5.33	PPb		92
42) 1,1-DICHLOROPROPENE	10.497	75	20467	5.43	PPb		98
43) CARBON TETRACHLORIDE	10.539	117	17899	5.45	PPb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64228.D
Acq On : 3 Jan 2012 10:35 am
Operator : mohui
Sample : bs
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 12:38:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.3.2 6

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 1,2-DICHLOROETHANE	10.739	62	22125	5.21	PPb		98
45) BENZENE	10.760	78	69239	5.50	PPb		98
46) TERT AMYL METHYL ETHER	10.833	73	57710	5.73	PPB	#	76
47) TRICHLOROETHYLENE	11.541	95	16634	5.38	PPb		97
48) METHYLCYCLOHEXANE	11.819	83	25699	5.70	PPb		98
49) METHYL METHACRYLATE	11.829	69	18695	5.25	PPb		74
50) 1,2-DICHLOROPROPANE	11.777	63	18462	5.47	PPb		97
51) DIBROMOMETHANE	11.945	93	11791	5.42	PPb		98
52) BROMODICHLOROMETHANE	12.086	83	21717	5.27	PPb		99
53) CHLOROACETONITRILE	12.259	75	6736	31.19	PPb		95
54) 2-NITROPROPANE	12.270	41	4612	4.69	PPb		94
55) 2-CHLOROETHYL VINYL ETHER	12.359	63	54833	21.97	PPb		98
56) cis-1,3-DICHLOROPROPENE	12.600	75	29192	5.36	PPb		98
57) 4-METHYL-2-PENTANONE	12.689	58	35661	23.68	PPb		98
58) 1,1-DICHLOROPROPANONE	12.783	43	11931	6.42	PPb		94
59) TOLUENE	13.019	92	42158	5.49	PPb		98
60) trans-1,3-DICHLOROPROPENE	13.198	75	27443	5.46	PPb		99
61) ETHYL METHACRYLATE	13.229	69	23100	4.95	PPb		93
62) 1,1,2-TRICHLOROETHANE	13.418	83	15137	5.64	PPb		99
63) 1,3-DICHLOROPROPANE	13.617	76	30861	5.53	PPb		94
64) 2-HEXANONE	13.617	58	34496	24.01	PPb		98
65) TETRACHLOROETHYLENE	13.680	166	16796	5.02	PPb		96
66) DIBROMOCHLOROMETHANE	13.911	129	17541	5.33	PPb		98
67) 1,2-DIBROMOETHANE	14.073	107	17449	5.38	PPb		96
68) CHLOROBENZENE	14.613	112	48246	5.52	PPb		98
69) 1,1,1,2-TETRACHLOROETHANE	14.666	131	16914	5.30	PPb		95
70) ETHYLBENZENE	14.681	91	79742	5.34	PPb		99
71) m,p-XYLENE	14.802	106	63788	10.95	PPb		100
72) o-XYLENE	15.248	106	31369	5.34	PPb		99
73) STYRENE	15.253	104	47572	4.96	PPb		98
74) BROMOFORM	15.510	173	12173	5.41	PPb		98
75) ISOPROPYLBENZENE	15.625	105	80581	5.38	PPb		98
76) BROMOBENZENE	16.045	156	20524	5.36	PPb		93
77) 1,1,2,2-TETRACHLOROETHANE	15.903	83	27505	5.65	PPb		97
78) TRANS-1,4-DICHLORO-2-B...	15.945	53	5648	5.60	PPb		96
79) 1,2,3-TRICHLOROPROPANE	15.976	110	7740	5.38	PPb		95
80) n-PROPYLBENZENE	16.066	91	97317	5.44	PPb		99
81) O-CHLOROTOLUENE	16.218	126	19752	5.42	PPb		95
82) 1,3,5-TRIMETHYLBENZENE	16.228	105	68715	5.27	PPb		96
83) P-CHLOROTOLUENE	16.323	91	62831	5.41	PPb		100
84) tert-BUTYLBENZENE	16.606	119	57267	5.29	PPb		98
85) 1,2,4-TRIMETHYLBENZENE	16.653	105	70315	5.26	PPb		92
86) PENTACHLOROETHANE	16.674	167	11831	5.64	PPb		99
87) sec-BUTYLBENZENE	16.836	105	88342	5.31	PPb		99
88) p-ISOPROPYLTOLUENE	16.962	119	71595	5.20	PPb		98
89) M-DICHLOROBENZENE	17.030	146	40248	5.31	PPb		98
90) P-DICHLOROBENZENE	17.114	146	41569	5.35	PPb		98
91) n-BUTYLBENZENE	17.403	92	37400	5.07	PPb		96
92) O-DICHLOROBENZENE	17.528	146	40839	5.29	PPb		99
93) HEXACHLOROETHANE	17.843	201	10205	5.07	PPb		92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64228.D
Acq On : 3 Jan 2012 10:35 am
Operator : mohui
Sample : bs
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 12:38:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	1,2-DIBROMO-3-CHLOROPR...	18.325	155	3826	4.70	PPb	97
95)	NITROBENZENE	18.530	77	11773	60.43	PPb	98
96)	1,2,4-TRICHLOROBENZENE	19.222	180	27032	5.13	PPb	96
97)	HEXACHLOROBUTADIENE	19.358	225	11612	4.47	PPb	97
98)	NAPHTHALENE	19.500	128	61481	4.77	PPb	99
99)	1,2,3-TRICHLOROBENZENE	19.762	180	25271	5.04	PPb	97

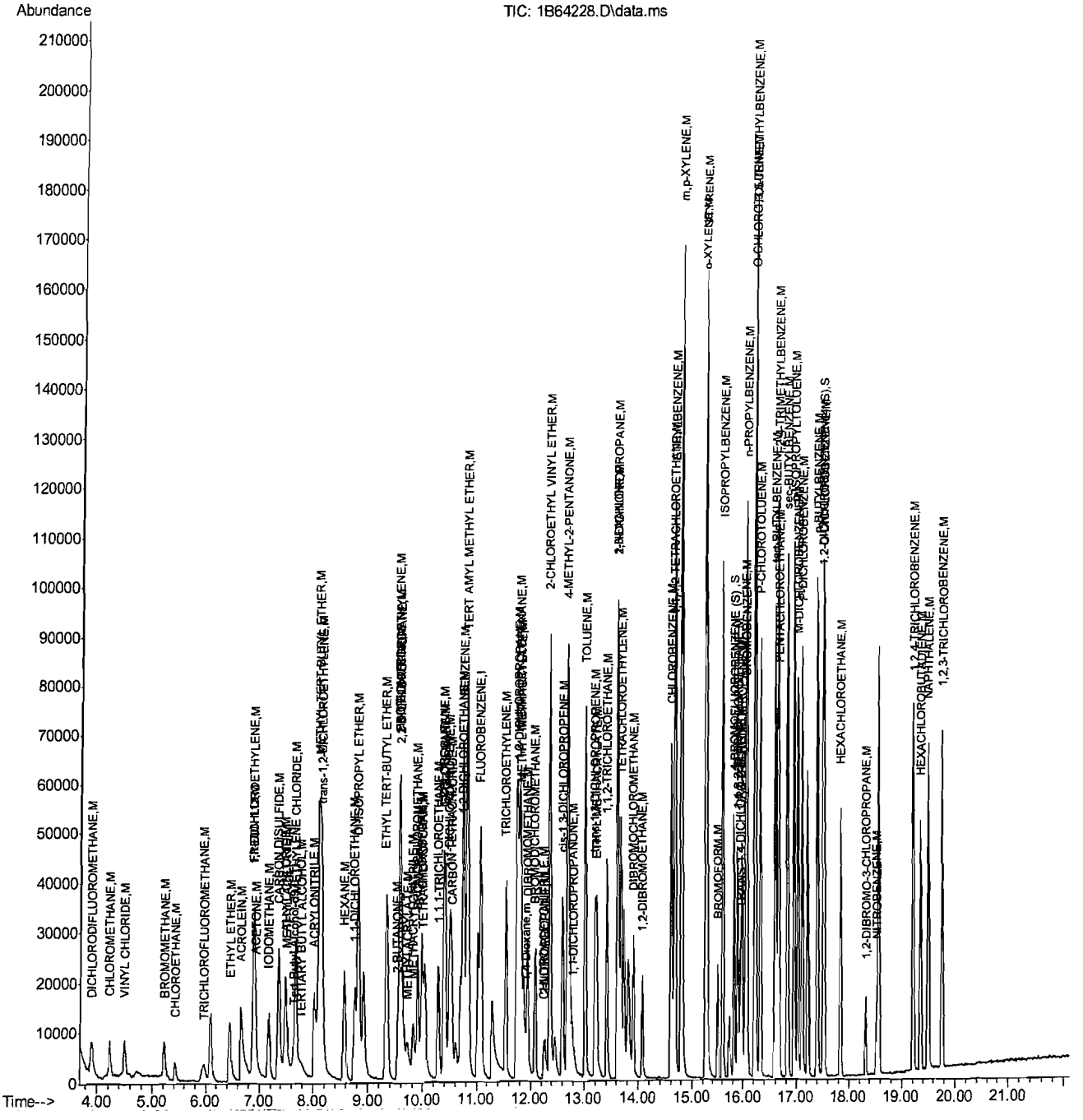
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.3.2
6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64228.D
Acq On : 3 Jan 2012 10:35 am
Operator : mohui
Sample : bs
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 03 12:38:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration



6.3.2 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64079.D
Acq On : 29 Dec 2011 6:11 am
Operator : mohui
Sample : ja95756-1ms
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Dec 29 08:23:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.4.1 GC

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.640	65	15045	50.00	PPB		-0.04
4) FLUOROBENZENE	11.074	96	61424	5.00	PPb		-0.02
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.830	95	21194	4.72	PPb		-0.01
Spiked Amount 5.000	Range 77 - 115		Recovery = 94.40%				
6) 1,2-DICHLOROBENZENE-d4...	17.502	152	22092	4.71	PPb		-0.02
Spiked Amount 5.000	Range 78 - 114		Recovery = 94.20%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.771	59	10763	24.05	PPb		88
3) 1,4-Dioxane	11.924	88	4675	140.12	PPB		92
7) DICHLORODIFLUOROMETHANE	3.907	85	5883	1.91	PPb		93
8) CHLOROMETHANE	4.227	50	10554	2.22	PPb		95
9) VINYL CHLORIDE	4.500	62	9254	2.21	PPb		97
10) BROMOMETHANE	5.218	94	6309	2.15	PPb		94
11) CHLOROETHANE	5.422	64	5563	2.22	PPb		98
12) TRICHLOROFLUOROMETHANE	5.962	101	7578	1.97	PPb		95
13) ETHYL ETHER	6.445	45	10748	5.41	PPb		99
14) ACROLEIN	6.665	56	24018	29.41	PPb		100
15) 1,1-DICHLOROETHYLENE	6.901	96	14872	6.00	PPb		99
16) FREON 113	6.906	151	8700	5.19	PPb		96
17) ACETONE	6.932	58	5595	21.12	PPb		95
18) IODOMETHANE	7.179	142	25684	5.56	PPb		95
19) CARBON DISULFIDE	7.357	76	53657	5.86	PPb		99
20) METHYL ACETATE	7.525	74	2850	4.43	PPb	#	32
21) ALLYL CHLORIDE	7.483	76	8137	4.56	PPb		98
22) METHYLENE CHLORIDE	7.672	84	20084	5.62	PPb		99
23) ACRYLONITRILE	8.007	53	39849	26.83	PPb		95
24) METHYL TERT BUTYL ETHER	8.123	73	55814	5.48	PPb		99
25) trans-1,2-DICHLOROETHY...	8.154	61	24713	5.94	PPb		99
26) HEXANE	8.568	57	13695	4.29	PPb		97
27) 1,1-DICHLOROETHANE	8.757	63	32099	5.93	PPb		95
28) DI-ISOPROPYL ETHER	8.825	45	51670	4.83	PPb		96
29) ETHYL TERT-BUTYL ETHER	9.334	59	51733	5.16	PPb		97
30) 2-BUTANONE	9.538	72	7959	20.68	PPb		92
31) 2,2-DICHLOROPROPANE	9.596	77	18405	4.29	PPb		97
32) cis-1,2-DICHLOROETHYLENE	9.580	96	22046	6.29	PPb		90
33) PROPIONITRILE	9.580	54	31722	54.67	PPb		97
34) METHYLACRYLATE	9.722	55	13000	4.39	PPb		100
35) METHACRYLONITRILE	9.821	41	9949	4.74	PPb		91
36) BROMOCHLOROMETHANE	9.910	128	9357	5.52	PPb		99
37) CHLOROFORM	9.979	83	30639	5.80	PPb		97
38) TETRAHYDROFURAN	10.000	42	6253	4.34	PPb	#	77
39) 1,1,1-TRICHLOROETHANE	10.288	97	23410	5.79	PPb		95
40) CYCLOHEXANE	10.409	84	22812	6.13	PPb	#	100
41) 1-CHLOROBUTANE	10.393	56	58955	6.04	PPb		96
42) 1,1-DICHLOROPROPENE	10.498	75	22042	5.96	PPb		99
43) CARBON TETRACHLORIDE	10.534	117	18820	5.83	PPb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64079.D
Acq On : 29 Dec 2011 6:11 am
Operator : mohui
Sample : ja95756-1ms
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Dec 29 08:23:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.4.1 6

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.734	62	23396	5.61	PPb	99
45) BENZENE	10.760	78	73390	5.93	PPb	99
46) TERT AMYL METHYL ETHER	10.833	73	50880	5.14	PPB	97
47) TRICHLOROETHYLENE	11.541	95	19677	6.48	PPb	99
48) METHYLCYCLOHEXANE	11.814	83	21103	4.76	PPb	99
49) METHYL METHACRYLATE	11.829	69	16382	4.68	PPb	83
50) 1,2-DICHLOROPROPANE	11.782	63	19314	5.82	PPb	98
51) DIBROMOMETHANE	11.945	93	11815	5.53	PPb	96
52) BROMODICHLOROMETHANE	12.092	83	22264	5.50	PPb	97
53) CHLOROACETONITRILE	12.265	75	6261	29.51	PPb	93
54) 2-NITROPROPANE	12.270	41	4833	5.00	PPb	97
56) cis-1,3-DICHLOROPROPENE	12.600	75	28093	5.25	PPb	99
57) 4-METHYL-2-PENTANONE	12.689	58	28880	19.52	PPb	98
58) 1,1-DICHLOROPROPANONE	12.784	43	10823	5.93	PPb	98
59) TOLUENE	13.014	92	43770	5.80	PPb	99
60) trans-1,3-DICHLOROPROPENE	13.198	75	24989	5.06	PPb	98
61) ETHYL METHACRYLATE	13.229	69	20915	4.56	PPb	95
62) 1,1,2-TRICHLOROETHANE	13.418	83	15160	5.74	PPb	93
63) 1,3-DICHLOROPROPANE	13.617	76	30869	5.63	PPb	95
64) 2-HEXANONE	13.617	58	27538	19.50	PPb	99
65) TETRACHLOROETHYLENE	13.675	166	80651	24.51	PPb	97
66) DIBROMOCHLOROMETHANE	13.911	129	16465	5.09	PPb	97
67) 1,2-DIBROMOETHANE	14.079	107	17216	5.40	PPb	97
68) CHLOROBENZENE	14.608	112	48665	5.67	PPb	99
69) 1,1,1,2-TETRACHLOROETHANE	14.666	131	16815	5.36	PPb	96
70) ETHYLBENZENE	14.682	91	81649	5.57	PPb	99
71) m,p-XYLENE	14.797	106	62195	10.86	PPb	95
72) o-XYLENE	15.248	106	31709	5.49	PPb	97
73) STYRENE	15.253	104	38573	4.09	PPb	99
74) BROMOFORM	15.510	173	10115	4.57	PPb	98
75) ISOPROPYLBENZENE	15.625	105	80095	5.44	PPb	100
76) BROMOBENZENE	16.040	156	20132	5.35	PPb	96
77) 1,1,2,2-TETRACHLOROETHANE	15.898	83	26804	5.60	PPb	99
78) TRANS-1,4-DICHLORO-2-B...	15.945	53	4445	4.48	PPb	92
79) 1,2,3-TRICHLOROPROPANE	15.977	110	7534	5.32	PPb	98
80) n-PROPYLBENZENE	16.066	91	98136	5.58	PPb	98
81) O-CHLOROTOLUENE	16.218	126	19820	5.54	PPb	96
82) 1,3,5-TRIMETHYLBENZENE	16.228	105	66216	5.16	PPb	97
83) P-CHLOROTOLUENE	16.323	91	62911	5.51	PPb	100
84) tert-BUTYLBENZENE	16.601	119	56362	5.30	PPb	99
85) 1,2,4-TRIMETHYLBENZENE	16.648	105	62315	4.74	PPb	98
86) PENTACHLOROETHANE	16.674	167	11846	5.75	PPb	96
87) sec-BUTYLBENZENE	16.836	105	85959	5.26	PPb	99
88) p-ISOPROPYLTOLUENE	16.962	119	68904	5.09	PPb	99
89) M-DICHLOROBENZENE	17.025	146	39331	5.28	PPb	99
90) P-DICHLOROBENZENE	17.114	146	40871	5.35	PPb	99
91) n-BUTYLBENZENE	17.403	92	35340	4.88	PPb	99
92) O-DICHLOROBENZENE	17.529	146	40041	5.28	PPb	98
93) HEXACHLOROETHANE	17.843	201	9287	4.70	PPb	94
94) 1,2-DIBROMO-3-CHLOROPR...	18.320	155	3412	4.27	PPb	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64079.D
Acq On : 29 Dec 2011 6:11 am
Operator : mohui
Sample : ja95756-1ms
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Dec 29 08:23:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) NITROBENZENE	18.525	77	12450	65.03	PPb	92
96) 1,2,4-TRICHLOROBENZENE	19.217	180	24496	4.73	PPb	97
97) HEXACHLOROBUTADIENE	19.358	225	10243	4.01	PPb	98
98) NAPHTHALENE	19.500	128	53673	4.24	PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.762	180	22735	4.61	PPb	98

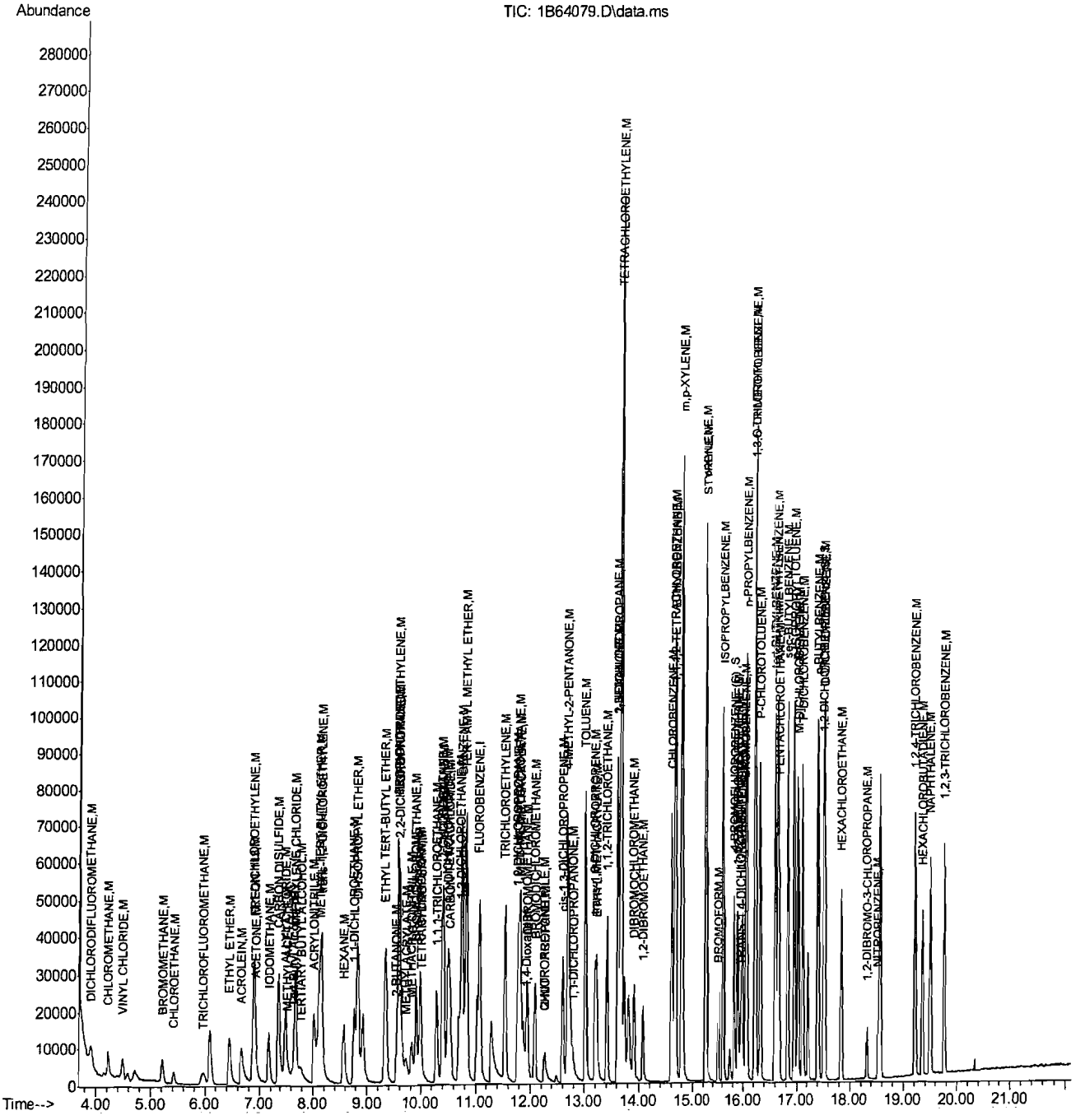
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64079.D
Acq On : 29 Dec 2011 6:11 am
Operator : mohui
Sample : ja95756-1ms
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 39 Sample Multiplier: 1

Quant Time: Dec 29 08:23:44 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.4.1 6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64080.D
Acq On : 29 Dec 2011 6:43 am
Operator : mohui
Sample : ja95756-1msd
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 29 08:23:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.4.2 6

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.640	65	16012	50.00	PPB		-0.04
4) FLUOROBENZENE	11.074	96	62168	5.00	PPb		-0.02
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.830	95	21641	4.77	PPb		-0.01
Spiked Amount 5.000	Range 77 - 115		Recovery = 95.40%				
6) 1,2-DICHLOROBENZENE-d4...	17.502	152	22259	4.69	PPb		-0.02
Spiked Amount 5.000	Range 78 - 114		Recovery = 93.80%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.782	59	11924	25.04	PPb		97
3) 1,4-Dioxane	11.924	88	4724	133.04	PPB		93
7) DICHLORODIFLUOROMETHANE	3.912	85	6304	2.02	PPb		95
8) CHLOROMETHANE	4.227	50	10564	2.19	PPb		100
9) VINYL CHLORIDE	4.500	62	9291	2.19	PPb		98
10) BROMOMETHANE	5.218	94	6483	2.19	PPb		96
11) CHLOROETHANE	5.422	64	6026	2.37	PPb		96
12) TRICHLOROFLUOROMETHANE	5.968	101	7922	2.03	PPb		91
13) ETHYL ETHER	6.445	45	10764	5.36	PPb		94
14) ACROLEIN	6.660	56	24817	30.03	PPb		99
15) 1,1-DICHLOROETHYLENE	6.896	96	15027	5.99	PPb		98
16) FREON 113	6.906	151	8872	5.23	PPb		95
17) ACETONE	6.938	58	5613	20.93	PPb		89
18) IODOMETHANE	7.174	142	25997	5.56	PPb		97
19) CARBON DISULFIDE	7.357	76	56091	6.06	PPb		100
20) METHYL ACETATE	7.520	74	2742	4.21	PPb	#	21
21) ALLYL CHLORIDE	7.488	76	9981	5.53	PPb		89
22) METHYLENE CHLORIDE	7.672	84	20361	5.63	PPb		98
23) ACRYLONITRILE	8.012	53	39832	26.50	PPb		96
24) METHYL TERT BUTYL ETHER	8.117	73	57385	5.56	PPb		98
25) trans-1,2-DICHLOROETHY...	8.154	61	25504	6.06	PPb		99
26) HEXANE	8.563	57	13753	4.25	PPb		97
27) 1,1-DICHLOROETHANE	8.757	63	33034	6.03	PPb		99
28) DI-ISOPROPYL ETHER	8.815	45	53311	4.92	PPb		100
29) ETHYL TERT-BUTYL ETHER	9.334	59	53440	5.27	PPb		99
30) 2-BUTANONE	9.538	72	7853	20.16	PPb		99
31) 2,2-DICHLOROPROPANE	9.596	77	19020	4.38	PPb		99
32) cis-1,2-DICHLOROETHYLENE	9.580	96	22808	6.43	PPb		96
33) PROPIONITRILE	9.575	54	32649	55.59	PPb		99
34) METHYLACRYLATE	9.732	55	13559	4.53	PPb		100
35) METHACRYLONITRILE	9.821	41	10195	4.80	PPb		93
36) BROMOCHLOROMETHANE	9.905	128	9760	5.68	PPb		94
37) CHLOROFORM	9.979	83	31550	5.90	PPb		98
38) TETRAHYDROFURAN	10.000	42	6401	4.39	PPb	#	79
39) 1,1,1-TRICHLOROETHANE	10.288	97	24439	5.98	PPb		98
40) CYCLOHEXANE	10.414	84	23367	6.21	PPb	#	100
41) 1-CHLOROBUTANE	10.398	56	60786	6.15	PPb		97
42) 1,1-DICHLOROPROPENE	10.498	75	23416	6.25	PPb		99
43) CARBON TETRACHLORIDE	10.534	117	19287	5.90	PPb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64080.D
Acq On : 29 Dec 2011 6:43 am
Operator : mohui
Sample : ja95756-1msd
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 29 08:23:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.4.2 6

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	1,2-DICHLOROETHANE	10.739	62	23231	5.50	PPb	99
45)	BENZENE	10.760	78	76654	6.12	PPb	99
46)	TERT AMYL METHYL ETHER	10.833	73	52241	5.21	PPB	98
47)	TRICHLOROETHYLENE	11.541	95	20481	6.67	PPb	98
48)	METHYLCYCLOHEXANE	11.814	83	21736	4.85	PPb	98
49)	METHYL METHACRYLATE	11.824	69	16461	4.65	PPb	88
50)	1,2-DICHLOROPROPANE	11.782	63	20246	6.03	PPb	99
51)	DIBROMOMETHANE	11.945	93	11857	5.48	PPb	97
52)	BROMODICHLOROMETHANE	12.086	83	22729	5.55	PPb	96
53)	CHLOROACETONITRILE	12.265	75	6356	29.60	PPb	91
54)	2-NITROPROPANE	12.275	41	5088	5.20	PPb	89
56)	cis-1,3-DICHLOROPROPENE	12.595	75	28592	5.28	PPb	99
57)	4-METHYL-2-PENTANONE	12.689	58	29321	19.58	PPb	99
58)	1,1-DICHLOROPROPANONE	12.784	43	10599	5.74	PPb	95
59)	TOLUENE	13.014	92	45563	5.96	PPb	98
60)	trans-1,3-DICHLOROPROPENE	13.198	75	25390	5.08	PPb	98
61)	ETHYL METHACRYLATE	13.229	69	21217	4.57	PPb	93
62)	1,1,2-TRICHLOROETHANE	13.418	83	15373	5.76	PPb	98
63)	1,3-DICHLOROPROPANE	13.617	76	31765	5.73	PPb	92
64)	2-HEXANONE	13.622	58	27777	19.44	PPb	99
65)	TETRACHLOROETHYLENE	13.675	166	83459	25.06	PPb	98
66)	DIBROMOCHLOROMETHANE	13.911	129	16368	5.00	PPb	98
67)	1,2-DIBROMOETHANE	14.079	107	17419	5.40	PPb	100
68)	CHLOROBENZENE	14.608	112	50406	5.80	PPb	99
69)	1,1,1,2-TETRACHLOROETHANE	14.666	131	17303	5.45	PPb	97
70)	ETHYLBENZENE	14.682	91	84737	5.71	PPb	99
71)	m,p-XYLENE	14.797	106	65710	11.34	PPb	98
72)	o-XYLENE	15.248	106	32581	5.58	PPb	97
73)	STYRENE	15.253	104	39352	4.12	PPb	99
74)	BROMOFORM	15.510	173	10472	4.68	PPb	99
75)	ISOPROPYLBENZENE	15.625	105	83027	5.58	PPb	99
76)	BROMOBENZENE	16.040	156	20518	5.39	PPb	96
77)	1,1,2,2-TETRACHLOROETHANE	15.898	83	27199	5.62	PPb	99
78)	TRANS-1,4-DICHLORO-2-B...	15.945	53	4372	4.36	PPb	97
79)	1,2,3-TRICHLOROPROPANE	15.977	110	7435	5.19	PPb	93
80)	n-PROPYLBENZENE	16.066	91	101152	5.69	PPb	100
81)	O-CHLOROTOLUENE	16.218	126	20280	5.60	PPb	98
82)	1,3,5-TRIMETHYLBENZENE	16.228	105	68130	5.25	PPb	98
83)	P-CHLOROTOLUENE	16.317	91	65252	5.65	PPb	100
84)	tert-BUTYLBENZENE	16.601	119	58584	5.44	PPb	99
85)	1,2,4-TRIMETHYLBENZENE	16.648	105	64241	4.83	PPb	97
86)	PENTACHLOROETHANE	16.674	167	11985	5.75	PPb	96
87)	sec-BUTYLBENZENE	16.836	105	89177	5.39	PPb	99
88)	p-ISOPROPYLTOLUENE	16.962	119	71017	5.18	PPb	99
89)	M-DICHLOROBENZENE	17.025	146	40546	5.38	PPb	98
90)	P-DICHLOROBENZENE	17.114	146	41894	5.42	PPb	99
91)	n-BUTYLBENZENE	17.403	92	36850	5.03	PPb	99
92)	O-DICHLOROBENZENE	17.529	146	41133	5.36	PPb	98
93)	HEXACHLOROETHANE	17.843	201	9898	4.95	PPb	96
94)	1,2-DIBROMO-3-CHLOROPR...	18.320	155	3430	4.24	PPb	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64080.D
Acq On : 29 Dec 2011 6:43 am
Operator : mohui
Sample : ja95756-1msd
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 29 08:23:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.4.2 6

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) NITROBENZENE	18.530	77	13025	67.22	PPb	96
96) 1,2,4-TRICHLOROBENZENE	19.217	180	25292	4.82	PPb	98
97) HEXACHLOROBUTADIENE	19.358	225	10984	4.25	PPb	97
98) NAPHTHALENE	19.500	128	54929	4.28	PPb	100
99) 1,2,3-TRICHLOROBENZENE	19.762	180	23383	4.69	PPb	99

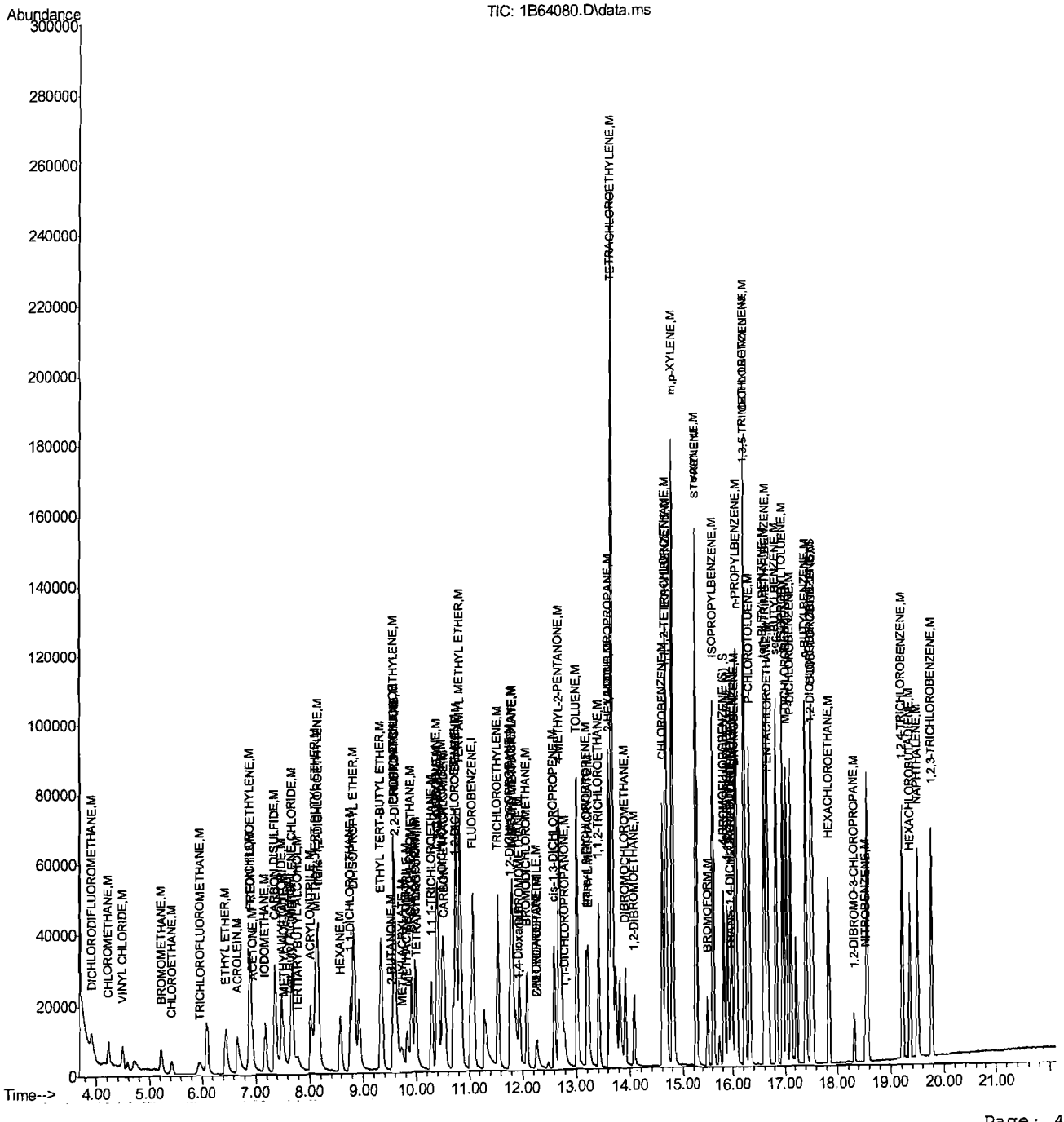
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64080.D
Acq On : 29 Dec 2011 6:43 am
Operator : mohui
Sample : ja95756-1msd
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 40 Sample Multiplier: 1

Quant Time: Dec 29 08:23:54 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.4.2



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64239.D
Acq On : 3 Jan 2012 4:15 pm
Operator : mohui
Sample : ja95763-1ms
Misc : MS23613,V1B2953,W,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 03 17:08:52 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.4.3 9

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.651	65	14971	50.00	PPB		-0.03
4) FLUOROBENZENE	11.074	96	62664	5.00	PPb		-0.02
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.825	95	22194	4.85	PPb		-0.02
Spiked Amount 5.000	Range 77 - 115		Recovery = 97.00%				
6) 1,2-DICHLOROBENZENE-d4...	17.502	152	23343	4.88	PPb		-0.02
Spiked Amount 5.000	Range 78 - 114		Recovery = 97.60%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.777	59	8430	18.93	PPb		92
3) 1,4-Dioxane	11.924	88	4165	125.45	PPB		98
7) DICHLORODIFLUOROMETHANE	3.912	85	9551	3.04	PPb		92
8) CHLOROMETHANE	4.237	50	11135	2.29	PPb		95
9) VINYL CHLORIDE	4.505	62	10813	2.53	PPb		98
10) BROMOMETHANE	5.223	94	6802	2.28	PPb		97
11) CHLOROETHANE	5.422	64	6288	2.46	PPb		99
12) TRICHLOROFLUOROMETHANE	5.978	101	10183	2.59	PPb		93
13) ETHYL ETHER	6.450	45	9261	4.57	PPb		93
14) ACROLEIN	6.654	56	47491	57.01	PPb		97
15) 1,1-DICHLOROETHYLENE	6.901	96	15678	6.20	PPb		99
16) FREON 113	6.906	151	10490	6.13	PPb		89
17) ACETONE	6.938	58	6015	22.25	PPb		85
18) IODOMETHANE	7.179	142	25088	5.32	PPb		96
19) CARBON DISULFIDE	7.362	76	49711	5.32	PPb		99
20) METHYL ACETATE	7.525	74	3206	4.89	PPb	#	1
21) ALLYL CHLORIDE	7.488	76	9397	5.17	PPb		86
22) METHYLENE CHLORIDE	7.672	84	18593	5.10	PPb		94
23) ACRYLONITRILE	8.018	53	37535	24.77	PPb		96
24) METHYL TERT BUTYL ETHER	8.123	73	52316	5.03	PPb		97
25) trans-1,2-DICHLOROETHY...	8.154	61	23011	5.42	PPb		99
26) HEXANE	8.568	57	18712	5.74	PPb		98
27) 1,1-DICHLOROETHANE	8.757	63	29660	5.37	PPb		96
28) DI-ISOPROPYL ETHER	8.820	45	41875	3.83	PPb		97
29) ETHYL TERT-BUTYL ETHER	9.334	59	44018	4.30	PPb		98
30) 2-BUTANONE	9.543	72	8903	22.67	PPb		98
31) 2,2-DICHLOROPROPANE	9.596	77	23937	5.47	PPb		98
32) cis-1,2-DICHLOROETHYLENE	9.580	96	19570	5.48	PPb		92
33) PROPIONITRILE	9.575	54	32538	54.97	PPb		99
34) METHYLACRYLATE	9.727	55	13035	4.32	PPb		100
35) METHACRYLONITRILE	9.827	41	9159	4.28	PPb		97
36) BROMOCHLOROMETHANE	9.916	128	9180	5.30	PPb		78
37) CHLOROFORM	9.979	83	28278	5.25	PPb		98
38) TETRAHYDROFURAN	10.005	42	6548	4.46	PPb		90
39) 1,1,1-TRICHLOROETHANE	10.293	97	23542	5.71	PPb		97
40) CYCLOHEXANE	10.409	84	26686	7.03	PPb	#	100
41) 1-CHLOROBUTANE	10.398	56	61371	6.16	PPb		92
42) 1,1-DICHLOROPROPENE	10.498	75	22566	5.98	PPb		99
43) CARBON TETRACHLORIDE	10.534	117	20369	6.19	PPb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64239.D
Acq On : 3 Jan 2012 4:15 pm
Operator : mohui
Sample : ja95763-1ms
Misc : MS23613,V1B2953,W,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 03 17:08:52 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.4.3

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 1,2-DICHLOROETHANE	10.734	62	20644	4.85	PPb		98
45) BENZENE	10.760	78	70650	5.59	PPb		99
46) TERT AMYL METHYL ETHER	10.833	73	44646	4.42	PPB		97
47) TRICHLOROETHYLENE	11.541	95	17784	5.74	PPb		99
48) METHYLCYCLOHEXANE	11.814	83	26685	5.90	PPb		96
49) METHYL METHACRYLATE	11.829	69	16402	4.59	PPb		85
50) 1,2-DICHLOROPROPANE	11.782	63	17876	5.28	PPb		98
51) DIBROMOMETHANE	11.945	93	11299	5.18	PPb		97
52) BROMODICHLOROMETHANE	12.086	83	19995	4.84	PPb		99
53) CHLOROACETONITRILE	12.259	75	6855	31.67	PPb		93
54) 2-NITROPROPANE	12.275	41	4783	4.85	PPb		99
55) 2-CHLOROETHYL VINYL ETHER	12.464	63	163	0.07	PPb	#	45
56) cis-1,3-DICHLOROPROPENE	12.595	75	26800	4.91	PPb		98
57) 4-METHYL-2-PENTANONE	12.689	58	32464	21.51	PPb		97
58) 1,1-DICHLOROPROPANONE	12.784	43	11605	6.23	PPb		96
59) TOLUENE	13.020	92	40586	5.27	PPb		100
60) trans-1,3-DICHLOROPROPENE	13.198	75	23798	4.72	PPb		99
61) ETHYL METHACRYLATE	13.224	69	19053	4.07	PPb		93
62) 1,1,2-TRICHLOROETHANE	13.418	83	14517	5.39	PPb		96
63) 1,3-DICHLOROPROPANE	13.617	76	29049	5.20	PPb		93
64) 2-HEXANONE	13.617	58	31695	22.00	PPb		100
65) TETRACHLOROETHYLENE	13.675	166	19150	5.71	PPb		96
66) DIBROMOCHLOROMETHANE	13.911	129	14522	4.40	PPb		98
67) 1,2-DIBROMOETHANE	14.073	107	16830	5.18	PPb		97
68) CHLOROBENZENE	14.608	112	47224	5.39	PPb		99
69) 1,1,1,2-TETRACHLOROETHANE	14.661	131	16289	5.09	PPb		98
70) ETHYLBENZENE	14.682	91	77176	5.16	PPb		99
71) m,p-XYLENE	14.797	106	56034	9.59	PPb		99
72) o-XYLENE	15.248	106	27864	4.73	PPb		96
73) STYRENE	15.253	104	25521	2.65	PPb		96
74) BROMOFORM	15.510	173	8797	3.90	PPb		97
75) ISOPROPYLBENZENE	15.620	105	79787	5.32	PPb		99
76) BROMOBENZENE	16.040	156	19249	5.02	PPb		99
77) 1,1,2,2-TETRACHLOROETHANE	15.898	83	26382	5.40	PPb		97
78) TRANS-1,4-DICHLORO-2-B...	15.945	53	4555	4.50	PPb		96
79) 1,2,3-TRICHLOROPROPANE	15.977	110	7569	5.24	PPb		97
80) n-PROPYLBENZENE	16.061	91	95614	5.33	PPb		100
81) O-CHLOROTOLUENE	16.218	126	19521	5.35	PPb		89
82) 1,3,5-TRIMETHYLBENZENE	16.223	105	48028	3.67	PPb		96
83) P-CHLOROTOLUENE	16.317	91	60389	5.18	PPb		100
84) tert-BUTYLBENZENE	16.601	119	57898	5.33	PPb		98
85) 1,2,4-TRIMETHYLBENZENE	16.648	105	50861	3.80	PPb		96
86) PENTACHLOROETHANE	16.674	167	11299	5.38	PPb		96
87) sec-BUTYLBENZENE	16.831	105	91337	5.48	PPb		99
88) p-ISOPROPYLTOLUENE	16.957	119	68101	4.93	PPb		100
89) M-DICHLOROBENZENE	17.025	146	38398	5.06	PPb		98
90) P-DICHLOROBENZENE	17.114	146	40103	5.15	PPb		98
91) n-BUTYLBENZENE	17.403	92	38066	5.15	PPb		99
92) O-DICHLOROBENZENE	17.529	146	38491	4.98	PPb		99
93) HEXACHLOROETHANE	17.838	201	9863	4.89	PPb		94

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64239.D
Acq On : 3 Jan 2012 4:15 pm
Operator : mohui
Sample : ja95763-1ms
Misc : MS23613,V1B2953,W,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 03 17:08:52 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.320	155	3696	4.53	PPb	92
95) NITROBENZENE	18.530	77	9848	50.42	PPb	97
96) 1,2,4-TRICHLOROBENZENE	19.217	180	24079	4.55	PPb	100
97) HEXACHLOROBUTADIENE	19.358	225	13520	5.19	PPb	100
98) NAPHTHALENE	19.495	128	53599	4.15	PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.762	180	21879	4.35	PPb	98

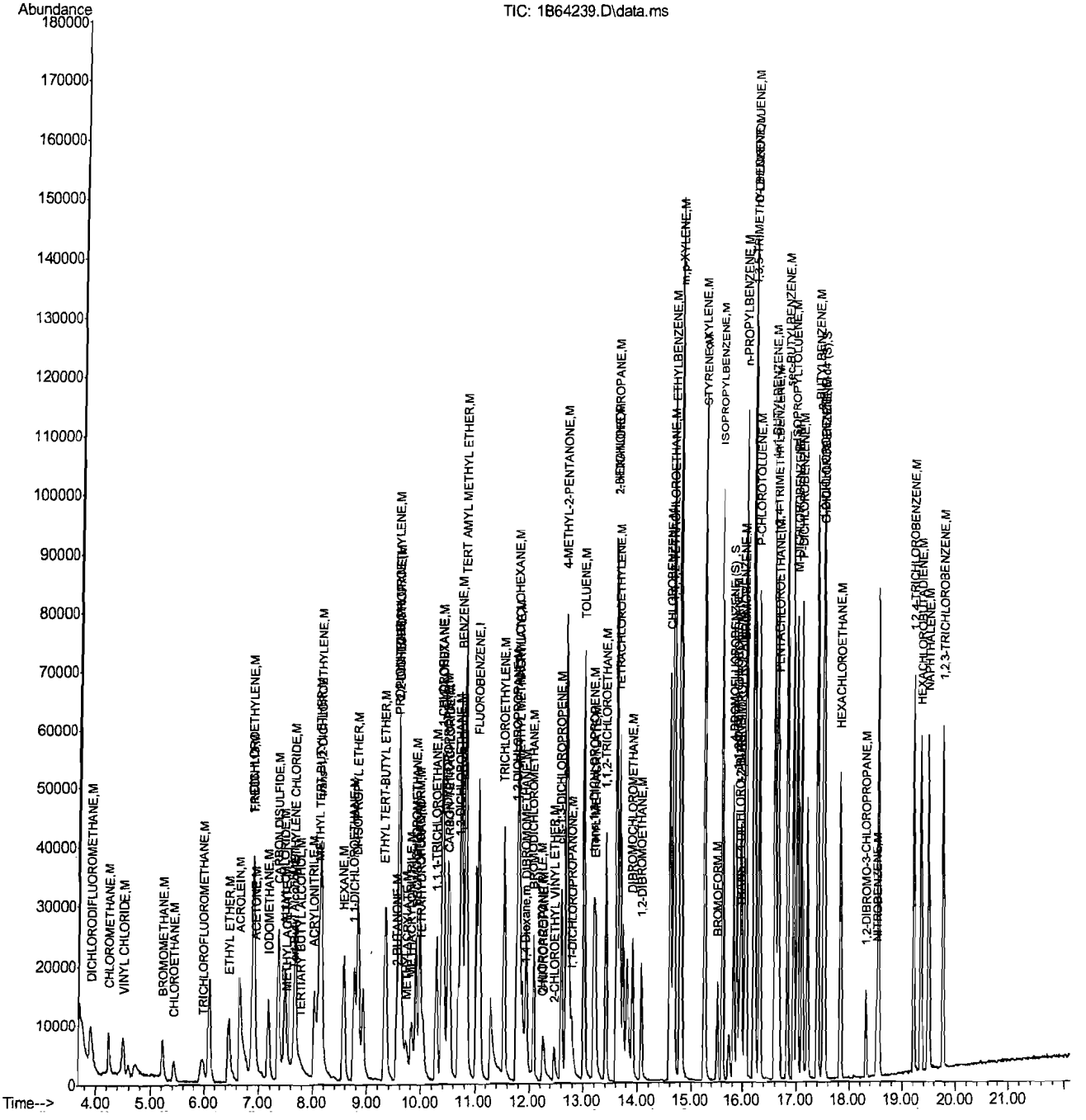
(#) = qualifier out of range (m) = manual integration (+) = signals summed

6.4.3 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64239.D
Acq On : 3 Jan 2012 4:15 pm
Operator : mohui
Sample : ja95763-1ms
Misc : MS23613,V1B2953,W,,,,1
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jan 03 17:08:52 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration



6.4.3

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64240.D
Acq On : 3 Jan 2012 4:46 pm
Operator : mohui
Sample : ja95763-2dup
Misc : MS23613,V1B2953,W,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 04 08:33:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Tert Butyl Alcohol-d9	7.640	65	14653	50.00	PPB	-0.04
4) FLUOROBENZENE	11.074	96	61583	5.00	PPb	-0.02
System Monitoring Compounds						
5) 4-BROMOFLUOROBENZENE (S)	15.830	95	20955	4.66	PPb	-0.01
Spiked Amount 5.000	Range 77 - 115		Recovery = 93.20%			
6) 1,2-DICHLOROBENZENE-d4...	17.502	152	21210	4.51	PPb	-0.02
Spiked Amount 5.000	Range 78 - 114		Recovery = 90.20%			
Target Compounds						Qvalue

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

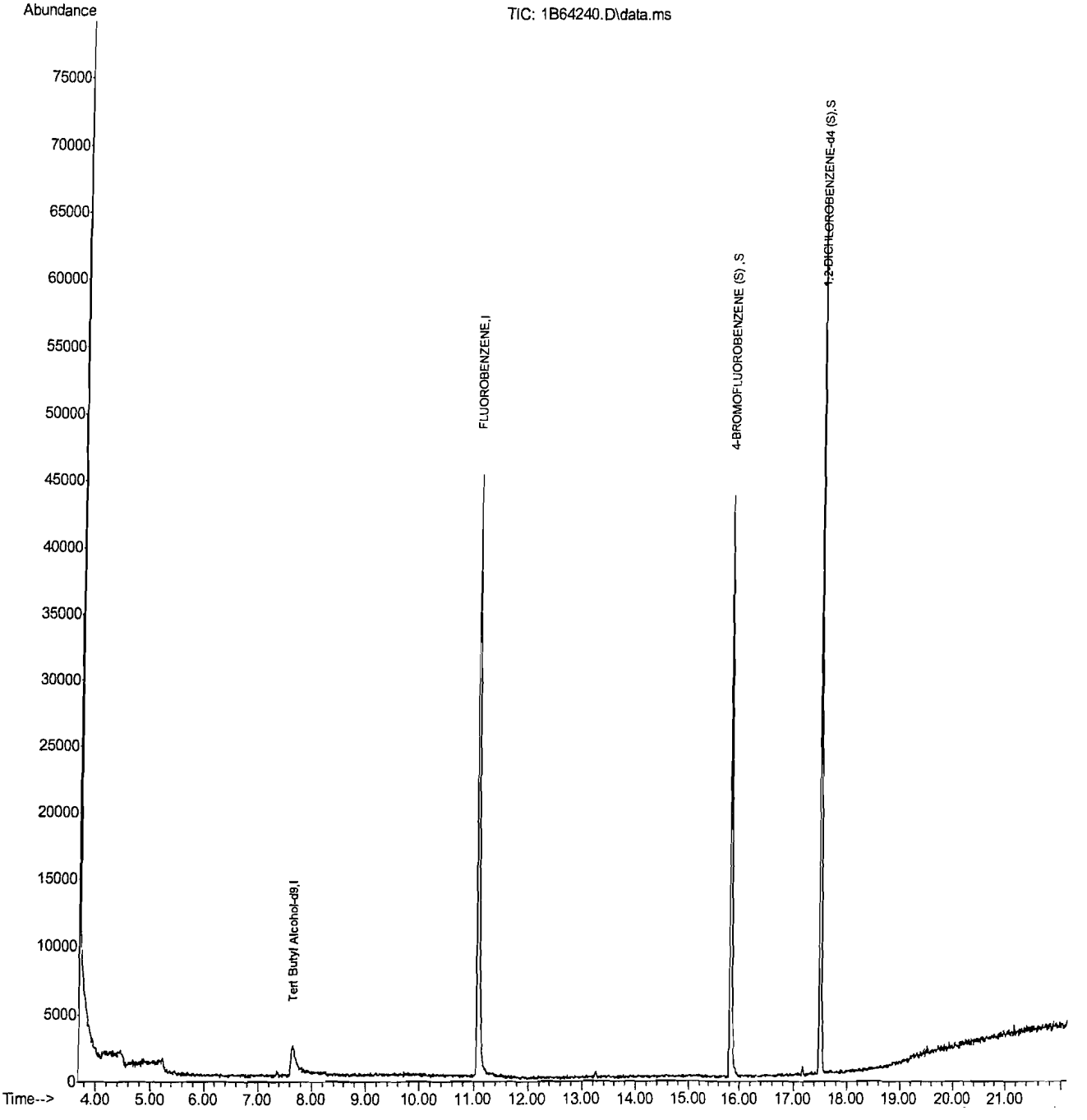
6.5.1 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64240.D
Acq On : 3 Jan 2012 4:46 pm
Operator : mohui
Sample : ja95763-2dup
Misc : MS23613,V1B2953,W,,,,1
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jan 04 08:33:38 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.5.1 6

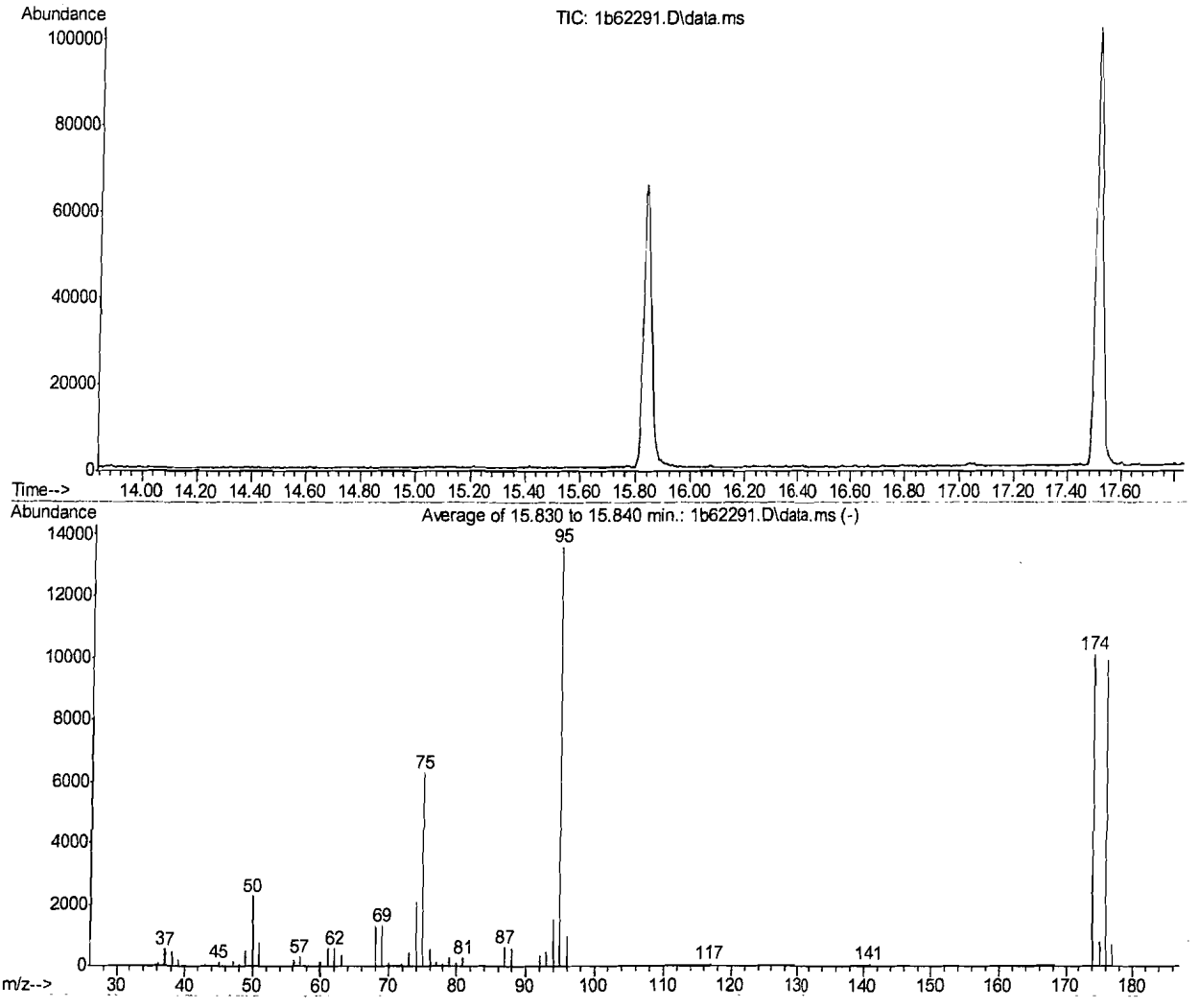


BFB

Data File : C:\msdchem\1\DATA\1b62291.D
Acq On : 10 Nov 2011 9:41 am
Sample : bfb
Misc : MS20769,V1B2865,W,,,,1
MS Integration Params: rteint.p

Vial: 1
Operator: mohui
Inst : MS1B
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M1B2865.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um



AutoFind: Scans 2316, 2317, 2318; Background Corrected with Scan 2308

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.8	2287	PASS
75	95	30	80	46.3	6294	PASS
95	95	100	100	100.0	13597	PASS
96	95	5	9	7.2	975	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	74.4	10111	PASS
175	174	5	9	8.0	809	PASS
176	174	95	101	98.2	9931	PASS
177	176	5	9	6.9	684	PASS

1b62291.D M1B2865.M Thu Nov 10 15:51:23 2011 RPT1

6.6.1 6

Average of 15.830 to 15.840 min.: 1b62291.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.05	112	50.00	2287	70.05	97	86.95	617
37.05	547	51.00	750	71.95	55	87.95	595
38.05	502	54.90	29	73.00	451	92.00	339
39.00	210	56.05	205	74.00	2086	92.95	501
39.95	22	57.00	313	75.00	6294	94.00	1524
43.05	61	60.00	140	76.05	542	95.00	13597
44.00	12	61.00	581	77.05	133	96.00	975
45.05	128	62.00	591	77.95	58	116.90	71
47.05	191	63.00	389	78.85	284	140.90	75
48.05	70	68.00	1250	79.95	111	142.90	36
49.00	510	69.00	1310	80.90	275	173.95	10111

Average of 15.830 to 15.840 min.: 1b62291.D\data.ms
bfb
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
175.00	809						
175.95	9931						
176.95	684						

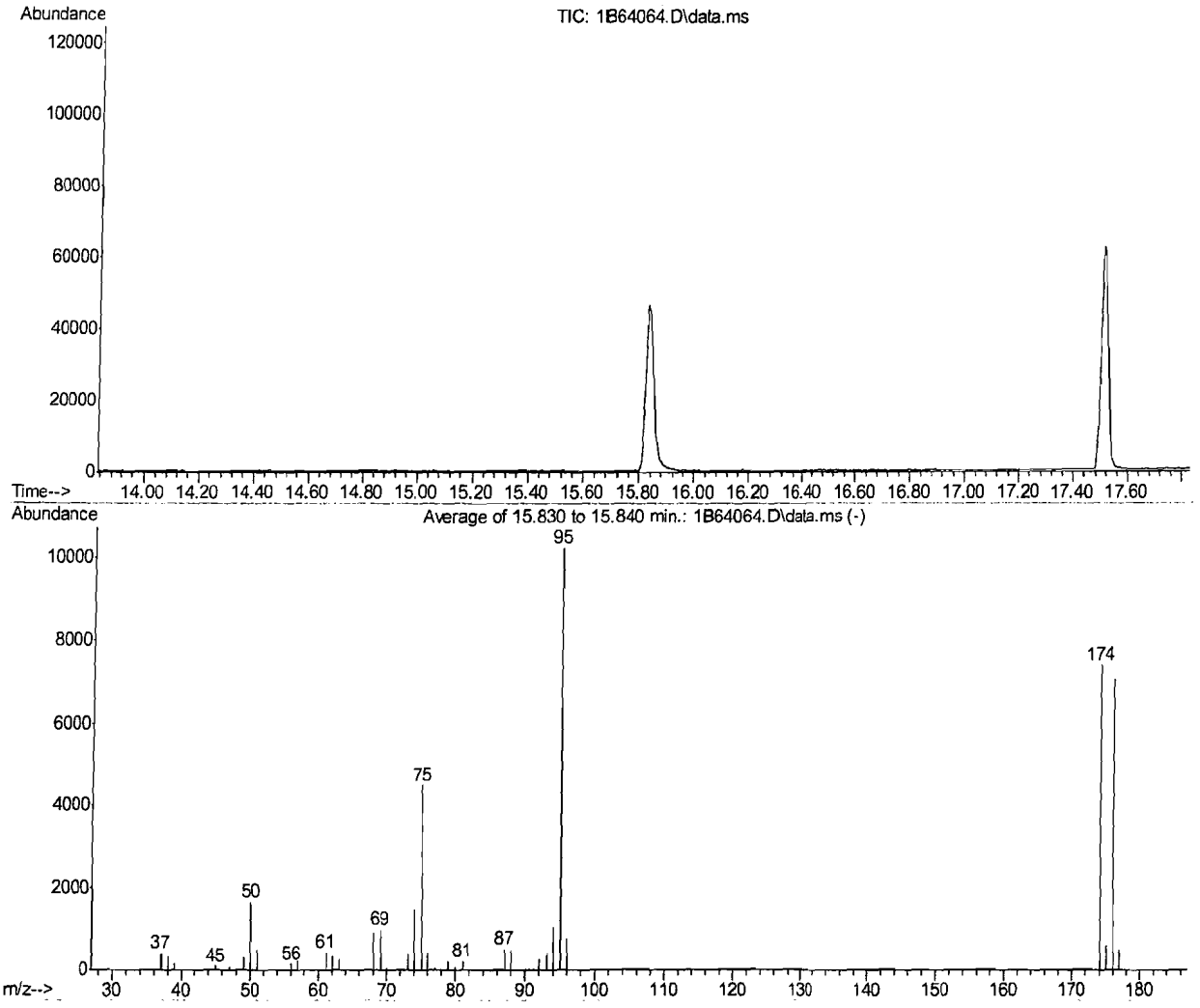
6.6.1 6

BFB

Data File : C:\msdchem\1\DATA\1B64064.D
Acq On : 28 Dec 2011 10:11 pm
Sample : bfb
Misc : MS23612,V1B2946,W,,,,1
MS Integration Params: rteint.p

Vial: 24
Operator: mohui
Inst : MS1B
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M1B2865.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um



AutoFind: Scans 2316, 2317, 2318; Background Corrected with Scan 2308

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	16.2	1653	PASS
75	95	30	80	44.0	4488	PASS
95	95	100	100	100.0	10211	PASS
96	95	5	9	7.4	752	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	72.4	7394	PASS
175	174	5	9	7.7	567	PASS
176	174	95	101	95.6	7070	PASS
177	176	5	9	6.7	475	PASS

1B64064.D M1B2865.M Thu Dec 29 08:53:19 2011 RPT1

6.6.2

Average of 15.830 to 15.840 min.: 1B64064.D\data.ms
bfb
Modified: subtracted

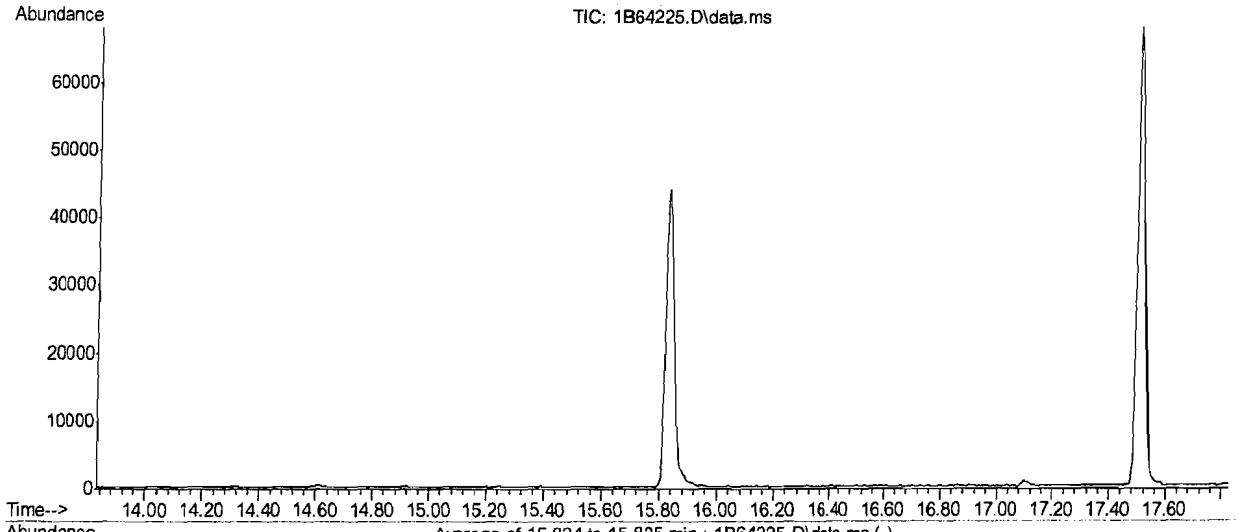
m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.00	396	61.00	420	78.90	210	174.95	567
38.05	341	62.00	349	79.90	91	175.90	7070
39.00	159	63.05	262	80.95	222	176.90	475
39.95	14	68.00	887	87.00	507		
45.00	95	69.00	968	87.95	459		
46.95	89	70.00	59	92.00	260		
49.00	326	73.00	404	92.95	337		
50.00	1653	74.00	1474	94.00	1037		
51.05	501	75.00	4488	95.00	10211		
56.00	156	76.00	432	96.00	752		
57.00	228	76.95	56	173.90	7394		

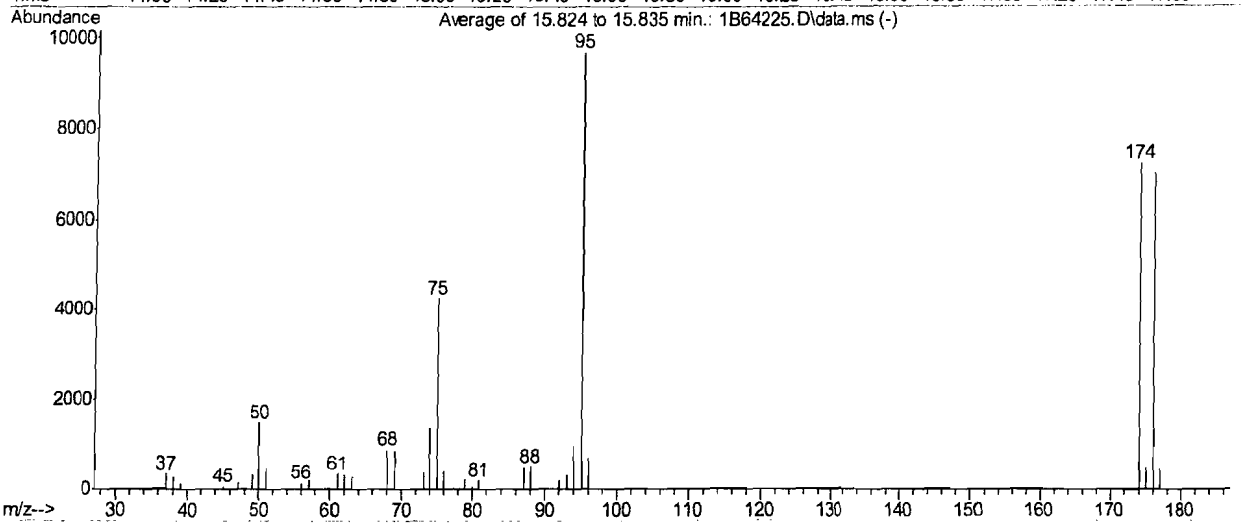
BFB

Data File : C:\msdchem\1\DATA\1B64225.D
Acq On : 3 Jan 2012 8:52 am
Sample : BFB
Misc : MS23612,V1B2953,W,,,,1
MS Integration Params: rteint.p

Vial: 1
Operator: mohui
Inst : MS1B
Multiplr: 1.00

Method : C:\MSDCHEM\1\METHODS\M1B2865.M (RTE Integrator)
Title : method 524, zb624 60mx0.25mmx1.4um





AutoFind: Scans 2315, 2316, 2317; Background Corrected with Scan 2307

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	15.4	1484	PASS
75	95	30	80	43.9	4245	PASS
95	95	100	100	100.0	9663	PASS
96	95	5	9	7.3	703	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	74.7	7217	PASS
175	174	5	9	6.6	476	PASS
176	174	95	101	97.3	7020	PASS
177	176	5	9	6.5	455	PASS

1B64225.D M1B2865.M Tue Jan 03 12:35:55 2012 RPT1

Average of 15.824 to 15.835 min.: 1B64225.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
37.05	345	60.00	27	77.00	34	173.95	7217
38.00	274	61.00	345	78.90	212	174.90	476
39.05	121	62.05	321	80.00	38	175.95	7020
44.00	5	63.00	277	80.90	187	176.95	455
45.00	55	68.00	872	87.00	467		
47.00	149	69.00	841	87.95	488		
49.00	329	70.00	32	92.00	209		
50.00	1484	73.00	362	93.00	325		
51.05	467	74.00	1371	94.00	976		
55.95	124	75.00	4245	95.00	9663		
57.00	205	75.95	401	96.00	703		

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62292.D
Acq On : 10 Nov 2011 10:14 am
Operator : mohui
Sample : ic2865-0.5
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 15:59:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 15:55:43 2011
Response via : Initial Calibration

6.7.1 6

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.651	65	16783	50.00	PPB		-0.02
4) FLUOROBENZENE	11.085	96	54705	5.00	PPb		-0.01
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.835	95	20212	5.07	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 101.40%				
6) 1,2-DICHLOROBENZENE-d4...	17.513	152	20534	4.91	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 98.20%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.824	59	1215	2.39	PPb		63
7) DICHLORODIFLUOROMETHANE	3.918	85	1026	0.37	PPb		94
8) CHLOROMETHANE	4.243	50	2275	0.56	PPb		91
9) VINYL CHLORIDE	4.510	62	1704	0.44	PPb		94
10) BROMOMETHANE	5.228	94	1379	0.52	PPb		94
11) CHLOROETHANE	5.438	64	1103	0.48	PPb		94
12) TRICHLOROFLUOROMETHANE	5.983	101	1340	0.39	PPb		91
13) ETHYL ETHER	6.476	45	816	0.43	PPb	#	72
14) ACROLEIN	6.717	56	3561	4.77	PPb		97
15) 1,1-DICHLOROETHYLENE	6.922	96	987	0.41	PPb		81
16) FREON 113	6.906	151	554	0.35	PPb		93
18) IODOMETHANE	7.200	142	1928	0.43	PPb		93
19) CARBON DISULFIDE	7.367	76	3667	0.41	PPb		97
21) ALLYL CHLORIDE	7.509	76	636	0.35	PPb	#	41
22) METHYLENE CHLORIDE	7.687	84	1735	0.53	PPb		98
23) ACRYLONITRILE	8.117	53	3140	2.19	PPb		91
24) METHYL TERT BUTYL ETHER	8.138	73	4618	0.49	PPb		89
25) trans-1,2-DICHLOROETHY...	8.175	61	1628	0.40	PPb		85
26) HEXANE	8.589	57	1225	0.42	PPb		70
27) 1,1-DICHLOROETHANE	8.773	63	2261	0.44	PPb		90
28) DI-ISOPROPYL ETHER	8.841	45	5162	0.55	PPb		95
29) ETHYL TERT-BUTYL ETHER	9.360	59	4953	0.57	PPb		87
31) 2,2-DICHLOROPROPANE	9.611	77	1926	0.47	PPb		96
32) cis-1,2-DICHLOROETHYLENE	9.606	96	1463	0.44	PPb		88
33) PROPIONITRILE	9.664	54	2275	4.07	PPb		59
35) METHACRYLONITRILE	9.884	41	816	0.42	PPb		95
36) BROMOCHLOROMETHANE	9.931	128	729	0.45	PPb		71
37) CHLOROFORM	9.994	83	2268	0.45	PPb		89
38) TETRAHYDROFURAN	10.041	42	889	0.71	PPb		90
39) 1,1,1-TRICHLOROETHANE	10.298	97	1587	0.40	PPb		92
40) CYCLOHEXANE	10.429	84	1229	0.32	PPb	#	100
41) 1-CHLOROBUTANE	10.424	56	3463	0.35	PPb		87
42) 1,1-DICHLOROPROPENE	10.524	75	1384	0.38	PPb		97
43) CARBON TETRACHLORIDE	10.555	117	1183	0.36	PPb		87
44) 1,2-DICHLOROETHANE	10.754	62	1752	0.44	PPb		92
45) BENZENE	10.775	78	5331	0.45	PPb		96
46) TERT AMYL METHYL ETHER	10.854	73	4908	0.58	PPB		97
47) TRICHLOROETHYLENE	11.567	95	1242	0.43	PPb		86
48) METHYLCYCLOHEXANE	11.829	83	1839	0.45	PPb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62292.D
Acq On : 10 Nov 2011 10:14 am
Operator : mohui
Sample : ic2865-0.5
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 15:59:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 15:55:43 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
50) 1,2-DICHLOROPROPANE	11.793	63	1341	0.42	PPb		94
51) DIBROMOMETHANE	11.966	93	951	0.48	PPb		93
52) BROMODICHLOROMETHANE	12.107	83	1720	0.45	PPb		95
54) 2-NITROPROPANE	12.306	41	558	0.65	PPb	#	38
55) 2-CHLOROETHYL VINYL ETHER	12.385	63	5568	2.54	PPb		94
56) cis-1,3-DICHLOROPROPENE	12.621	75	2214	0.44	PPb		96
57) 4-METHYL-2-PENTANONE	12.710	58	2804	2.14	PPb		96
58) 1,1-DICHLOROPROPANONE	12.804	43	1078	0.67	PPb		82
59) TOLUENE	13.035	92	3133	0.43	PPb		90
60) trans-1,3-DICHLOROPROPENE	13.219	75	2053	0.44	PPb		95
61) ETHYL METHACRYLATE	13.250	69	1846	0.42	PPb		86
62) 1,1,2-TRICHLOROETHANE	13.434	83	1103	0.45	PPb		92
63) 1,3-DICHLOROPROPANE	13.633	76	2460	0.48	PPb		90
64) 2-HEXANONE	13.649	58	2555	1.98	PPb		98
65) TETRACHLOROETHYLENE	13.691	166	1328	0.42	PPb		92
66) DIBROMOCHLOROMETHANE	13.926	129	1367	0.45	PPb		95
67) 1,2-DIBROMOETHANE	14.094	107	1382	0.46	PPb		98
68) CHLOROBENZENE	14.624	112	3665	0.45	PPb		93
69) 1,1,1,2-TETRACHLOROETHANE	14.676	131	1335	0.45	PPb		97
70) ETHYLBENZENE	14.697	91	6310	0.46	PPb		95
71) m,p-XYLENE	14.813	106	4749	0.87	PPb		99
72) o-XYLENE	15.258	106	2346	0.43	PPb		98
73) STYRENE	15.269	104	3576	0.39	PPb		95
74) BROMOFORM	15.520	173	839	0.40	PPb		94
75) ISOPROPYLBENZENE	15.630	105	5985	0.42	PPb		98
76) BROMOBENZENE	16.050	156	1610	0.46	PPb		92
77) 1,1,2,2-TETRACHLOROETHANE	15.914	83	2142	0.49	PPb		96
78) TRANS-1,4-DICHLORO-2-B...	15.961	53	367	0.38	PPb		74
79) 1,2,3-TRICHLOROPROPANE	15.987	110	665	0.51	PPb	#	89
80) n-PROPYLBENZENE	16.076	91	7154	0.43	PPb		97
81) O-CHLOROTOLUENE	16.223	126	1446	0.43	PPb	#	64
82) 1,3,5-TRIMETHYLBENZENE	16.233	105	5269	0.43	PPb		96
83) P-CHLOROTOLUENE	16.333	91	4925	0.46	PPb		99
84) tert-BUTYLBENZENE	16.606	119	4240	0.42	PPb		93
85) 1,2,4-TRIMETHYLBENZENE	16.658	105	5397	0.43	PPb		90
86) PENTACHLOROETHANE	16.684	167	805	0.40	PPb		86
87) sec-BUTYLBENZENE	16.842	105	6417	0.41	PPb		96
88) p-ISOPROPYLTOLUENE	16.967	119	5293	0.41	PPb		97
89) M-DICHLOROBENZENE	17.041	146	3256	0.47	PPb		97
90) P-DICHLOROBENZENE	17.125	146	3104	0.43	PPb		98
91) n-BUTYLBENZENE	17.408	92	2730	0.39	PPb		90
92) O-DICHLOROBENZENE	17.534	146	3327	0.47	PPb		97
93) HEXACHLOROETHANE	17.843	201	762	0.40	PPb		93
94) 1,2-DIBROMO-3-CHLOROPR...	18.331	155	308	0.40	PPb		91
95) NITROBENZENE	18.540	77	777	4.01	PPb		87
96) 1,2,4-TRICHLOROBENZENE	19.227	180	1985	0.40	PPb		95
97) HEXACHLOROBUTADIENE	19.363	225	1064	0.44	PPb		83
98) NAPHTHALENE	19.505	128	4694	0.38	PPb		99
99) 1,2,3-TRICHLOROBENZENE	19.767	180	1982	0.42	PPb		96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62292.D
Acq On : 10 Nov 2011 10:14 am
Operator : mohui
Sample : ic2865-0.5
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 15:59:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 15:55:43 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

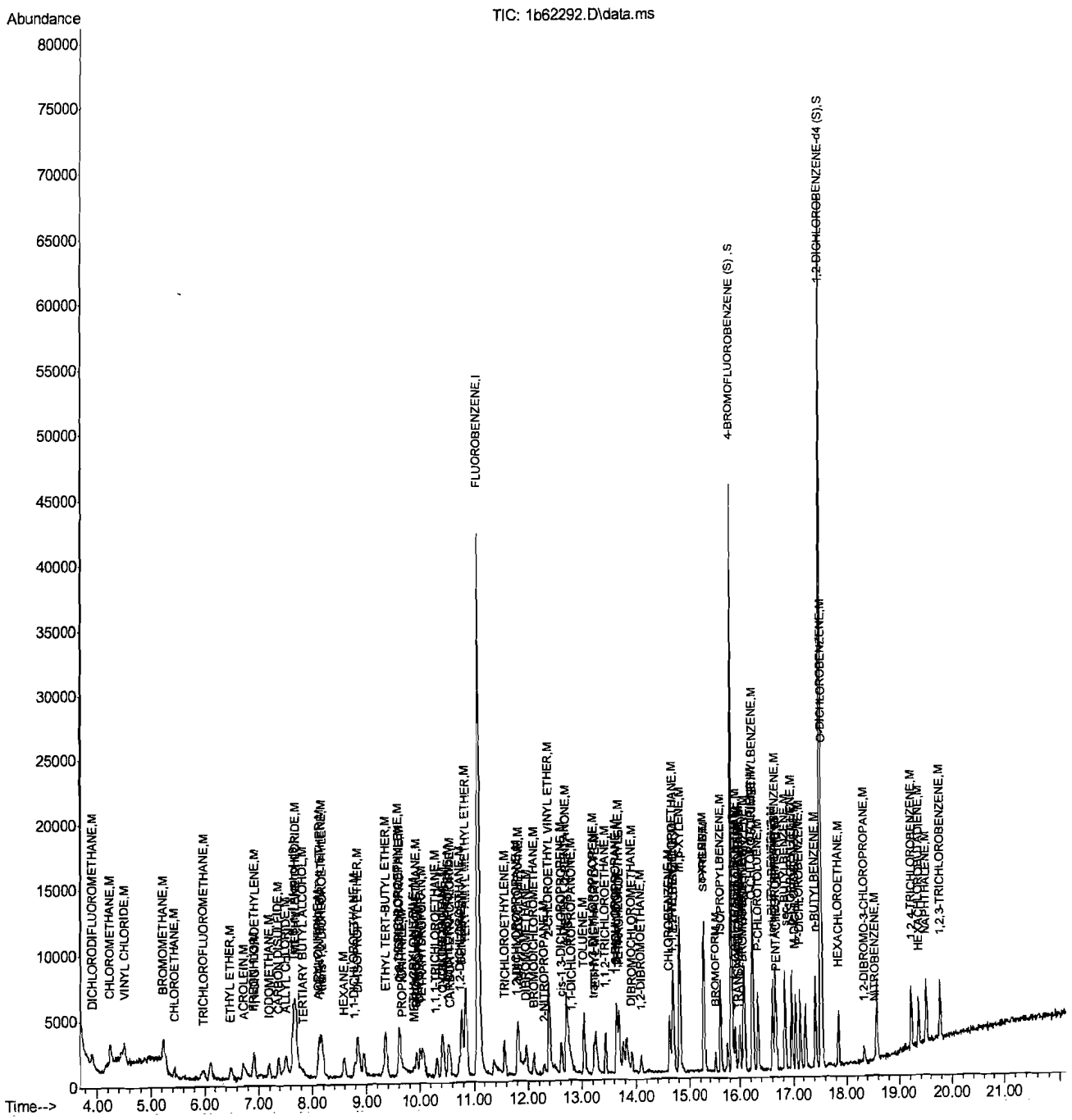
6.7.1 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62292.D
Acq On : 10 Nov 2011 10:14 am
Operator : mohui
Sample : ic2865-0.5
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Nov 10 15:59:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 15:55:43 2011
Response via : Initial Calibration

6.7.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62293.D
Acq On : 10 Nov 2011 10:46 am
Operator : mohui
Sample : ic2865-1
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 10 16:01:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:01:03 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.661	65	16397	50.00	PPB		0.00
4) FLUOROBENZENE	11.090	96	55019	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.835	95	20011	4.96	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 99.20%				
6) 1,2-DICHLOROBENZENE-d4...	17.513	152	20791	4.99	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 99.80%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.802	59	2559	5.27	PPb		84
3) 1,4-Dioxane	11.955	88	566	15.12	PPB		81
7) DICHLORODIFLUOROMETHANE	3.923	85	2718	1.11	PPb		90
8) CHLOROMETHANE	4.248	50	4887	1.13	PPb		93
9) VINYL CHLORIDE	4.505	62	3899	1.06	PPb		96
10) BROMOMETHANE	5.233	94	2805	1.03	PPb		95
11) CHLOROETHANE	5.443	64	2407	1.06	PPb		95
12) TRICHLOROFLUOROMETHANE	5.988	101	3712	1.20	PPb		97
13) ETHYL ETHER	6.486	45	1693	0.95	PPb		71
14) ACROLEIN	6.701	56	6218	8.28	PPb		96
15) 1,1-DICHLOROETHYLENE	6.922	96	2346	1.07	PPb		88
16) FREON 113	6.916	151	1278	0.94	PPb		91
17) ACETONE	6.985	58	674	2.59	PPb		83
18) IODOMETHANE	7.199	142	4360	1.04	PPb		98
19) CARBON DISULFIDE	7.378	76	8454	1.03	PPb		99
21) ALLYL CHLORIDE	7.498	76	1620	1.04	PPb	#	83
22) METHYLENE CHLORIDE	7.692	84	3458	1.02	PPb		98
23) ACRYLONITRILE	8.086	53	6235	4.61	PPb		87
24) METHYL TERT BUTYL ETHER	8.138	73	9356	1.00	PPb		92
25) trans-1,2-DICHLOROETHY...	8.175	61	3935	1.07	PPb		94
26) HEXANE	8.578	57	2911	1.07	PPb		88
27) 1,1-DICHLOROETHANE	8.783	63	5129	1.05	PPb		95
28) DI-ISOPROPYL ETHER	8.841	45	10286	1.04	PPb		98
29) ETHYL TERT-BUTYL ETHER	9.354	59	9480	1.01	PPb		98
30) 2-BUTANONE	9.601	72	1045	2.84	PPb		90
31) 2,2-DICHLOROPROPANE	9.611	77	4075	1.02	PPb		93
32) cis-1,2-DICHLOROETHYLENE	9.611	96	3397	1.08	PPb		89
33) PROPIONITRILE	9.632	54	4837	9.49	PPb		87
34) METHYLACRYLATE	9.784	55	2598	0.91	PPb		100
35) METHACRYLONITRILE	9.858	41	2071	1.15	PPb		88
36) BROMOCHLOROMETHANE	9.931	128	1486	0.96	PPb		80
37) CHLOROFORM	9.994	83	4944	1.03	PPb		93
38) TETRAHYDROFURAN	10.041	42	1546	1.01	PPb	#	61
39) 1,1,1-TRICHLOROETHANE	10.303	97	3703	1.03	PPb		98
40) CYCLOHEXANE	10.429	84	2789	0.88	PPb	#	100
41) 1-CHLOROBUTANE	10.413	56	8224	0.97	PPb		89
42) 1,1-DICHLOROPROPENE	10.518	75	3328	1.03	PPb		94
43) CARBON TETRACHLORIDE	10.560	117	2744	0.97	PPb		90
44) 1,2-DICHLOROETHANE	10.765	62	3850	1.03	PPb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62293.D
Acq On : 10 Nov 2011 10:46 am
Operator : mohui
Sample : ic2865-1
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 10 16:01:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:01:03 2011
Response via : Initial Calibration

6.7.2 6

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
45) BENZENE	10.781	78	11575	1.03	PPb		96
46) TERT AMYL METHYL ETHER	10.849	73	9704	1.05	PPB		98
47) TRICHLOROETHYLENE	11.567	95	2811	1.03	PPb		92
48) METHYLCYCLOHEXANE	11.829	83	3687	0.95	PPb		97
49) METHYL METHACRYLATE	11.871	69	2787	0.83	PPb	#	50
50) 1,2-DICHLOROPROPANE	11.798	63	3023	1.03	PPb		96
51) DIBROMOMETHANE	11.965	93	1906	0.98	PPb		95
52) BROMODICHLOROMETHANE	12.107	83	3600	0.99	PPb		88
53) CHLOROACETONITRILE	12.296	75	802	3.86	PPb		79
54) 2-NITROPROPANE	12.306	41	1159	1.17	PPb		94
55) 2-CHLOROETHYL VINYL ETHER	12.385	63	10945	4.93	PPb		97
56) cis-1,3-DICHLOROPROPENE	12.616	75	4899	1.03	PPb		96
57) 4-METHYL-2-PENTANONE	12.710	58	5043	3.70	PPb		94
58) 1,1-DICHLOROPROPANONE	12.810	43	1985	1.05	PPb		82
59) TOLUENE	13.035	92	6860	1.01	PPb		93
60) trans-1,3-DICHLOROPROPENE	13.219	75	4291	0.97	PPb		96
61) ETHYL METHACRYLATE	13.250	69	3958	0.98	PPb		98
62) 1,1,2-TRICHLOROETHANE	13.433	83	2440	1.04	PPb		96
63) 1,3-DICHLOROPROPANE	13.638	76	4917	0.98	PPb		95
64) 2-HEXANONE	13.643	58	4777	3.70	PPb		96
65) TETRACHLOROETHYLENE	13.696	166	3072	1.05	PPb		91
66) DIBROMOCHLOROMETHANE	13.926	129	2811	0.97	PPb		98
67) 1,2-DIBROMOETHANE	14.094	107	2815	0.97	PPb		95
68) CHLOROBENZENE	14.624	112	7859	1.02	PPb		92
69) 1,1,1,2-TETRACHLOROETHANE	14.676	131	2827	1.00	PPb		96
70) ETHYLBENZENE	14.692	91	13461	1.01	PPb		97
71) m,p-XYLENE	14.812	106	10559	2.06	PPb		97
72) o-XYLENE	15.258	106	5232	1.02	PPb		94
73) STYRENE	15.269	104	8239	1.01	PPb		93
74) BROMOFORM	15.520	173	1927	1.01	PPb		96
75) ISOPROPYLBENZENE	15.636	105	13489	1.03	PPb		98
76) BROMOBENZENE	16.055	156	3456	1.02	PPb		89
77) 1,1,2,2-TETRACHLOROETHANE	15.908	83	4300	0.99	PPb		98
78) TRANS-1,4-DICHLORO-2-B...	15.966	53	820	0.96	PPb		90
79) 1,2,3-TRICHLOROPROPANE	15.992	110	1253	0.95	PPb		98
80) n-PROPYLBENZENE	16.076	91	16183	1.04	PPb		97
81) O-CHLOROTOLUENE	16.233	126	3312	1.05	PPb	#	83
82) 1,3,5-TRIMETHYLBENZENE	16.238	105	11550	1.01	PPb		98
83) P-CHLOROTOLUENE	16.333	91	10603	1.03	PPb		96
84) tert-BUTYLBENZENE	16.611	119	9592	1.03	PPb		97
85) 1,2,4-TRIMETHYLBENZENE	16.658	105	11924	1.02	PPb		88
86) PENTACHLOROETHANE	16.684	167	1744	0.96	PPb		91
87) sec-BUTYLBENZENE	16.841	105	14613	1.02	PPb		98
88) p-ISOPROPYLTOLUENE	16.967	119	12158	1.03	PPb		97
89) M-DICHLOROBENZENE	17.041	146	6823	1.01	PPb		95
90) P-DICHLOROBENZENE	17.125	146	6831	1.01	PPb		97
91) n-BUTYLBENZENE	17.408	92	6323	1.00	PPb		97
92) O-DICHLOROBENZENE	17.539	146	6817	0.99	PPb		97
93) HEXACHLOROETHANE	17.843	201	1681	0.97	PPb		95
94) 1,2-DIBROMO-3-CHLOROPR...	18.330	155	646	0.92	PPb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62293.D
Acq On : 10 Nov 2011 10:46 am
Operator : mohui
Sample : ic2865-1
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 10 16:01:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:01:03 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
95) NITROBENZENE	18.545	77	1388	7.90	PPb	94
96) 1,2,4-TRICHLOROBENZENE	19.227	180	4288	0.95	PPb	92
97) HEXACHLOROBUTADIENE	19.363	225	2202	0.96	PPb	96
98) NAPHTHALENE	19.510	128	9519	0.87	PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.767	180	3999	0.92	PPb	99

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

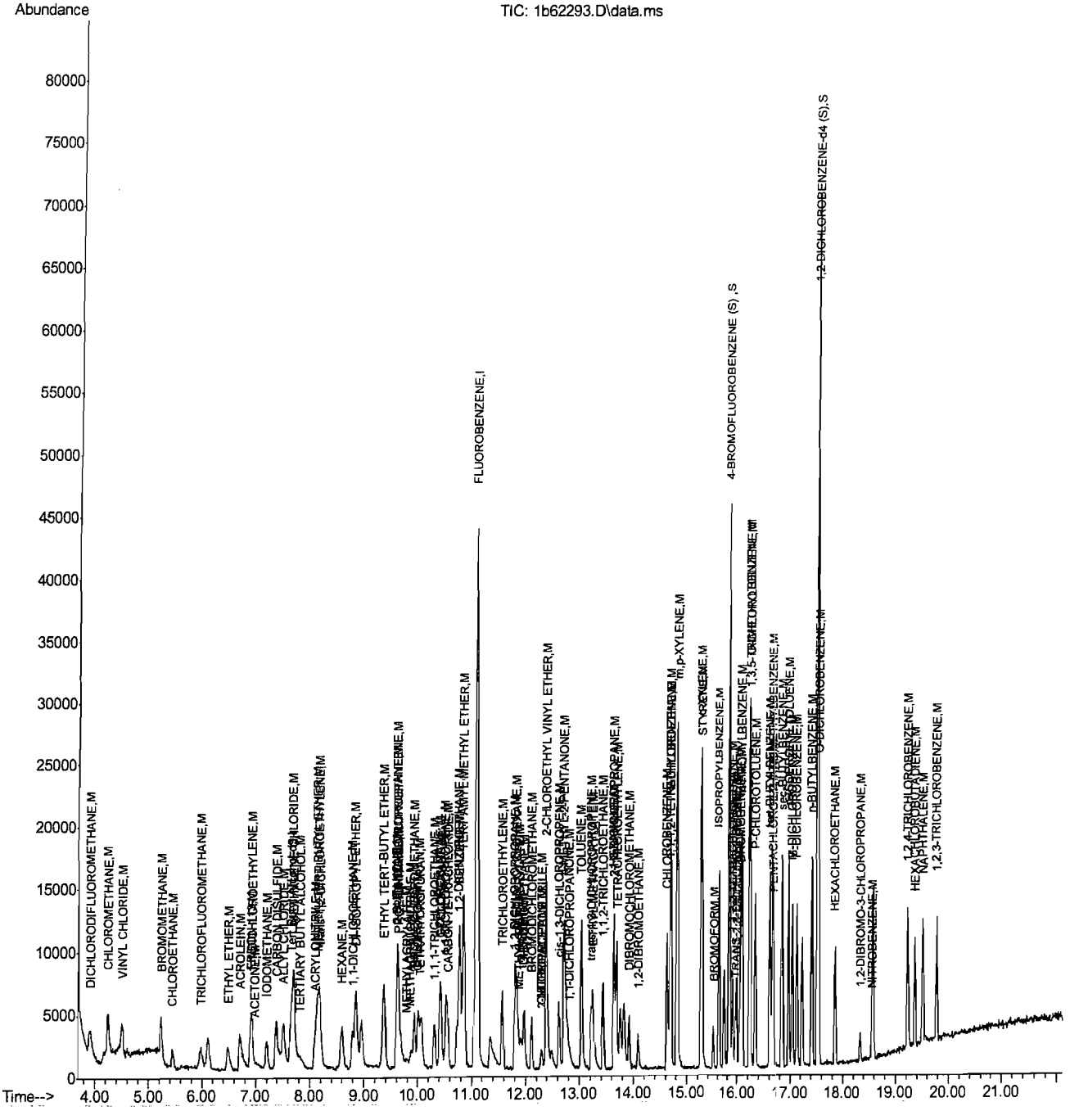
6.7.2 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62293.D
Acq On : 10 Nov 2011 10:46 am
Operator : mohui
Sample : ic2865-1
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 10 16:01:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:01:03 2011
Response via : Initial Calibration

6.7.2 6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62294.D
Acq On : 10 Nov 2011 11:18 am
Operator : mohui
Sample : ic2865-2
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 10 16:02:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:02:24 2011
Response via : Initial Calibration

6.7.3 6

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.666	65	16428	50.00	PPB		0.00
4) FLUOROBENZENE	11.090	96	55321	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.840	95	20030	4.95	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 99.00%				
6) 1,2-DICHLOROBENZENE-d4...	17.513	152	21094	5.04	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 100.80%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.813	59	4970	10.03	PPb		99
3) 1,4-Dioxane	11.939	88	1793	59.57	PPB		87
7) DICHLORODIFLUOROMETHANE	3.923	85	5356	2.10	PPb		98
8) CHLOROMETHANE	4.237	50	8476	1.86	PPb		100
9) VINYL CHLORIDE	4.515	62	7347	1.95	PPb		99
10) BROMOMETHANE	5.234	94	5225	1.89	PPb		98
11) CHLOROETHANE	5.438	64	4483	1.93	PPb		95
12) TRICHLOROFLUOROMETHANE	5.989	101	6589	1.99	PPb		94
13) ETHYL ETHER	6.471	45	3562	2.03	PPb		94
14) ACROLEIN	6.691	56	15833	22.94	PPb		97
15) 1,1-DICHLOROETHYLENE	6.917	96	4181	1.85	PPb		97
16) FREON 113	6.922	151	2842	2.12	PPb		93
17) ACETONE	6.969	58	1659	7.70	PPb		90
18) IODOMETHANE	7.200	142	7792	1.83	PPb		96
19) CARBON DISULFIDE	7.378	76	15175	1.82	PPb		97
20) METHYL ACETATE	7.556	74	852	1.39	PPb	#	1
21) ALLYL CHLORIDE	7.509	76	3100	1.95	PPb	#	78
22) METHYLENE CHLORIDE	7.693	84	6178	1.80	PPb		100
23) ACRYLONITRILE	8.049	53	12867	9.71	PPb		96
24) METHYL TERT BUTYL ETHER	8.138	73	18104	1.93	PPb		100
25) trans-1,2-DICHLOROETHY...	8.180	61	7165	1.90	PPb		97
26) HEXANE	8.584	57	5593	2.00	PPb		97
27) 1,1-DICHLOROETHANE	8.783	63	9309	1.87	PPb		98
28) DI-ISOPROPYL ETHER	8.841	45	18636	1.85	PPb		99
29) ETHYL TERT-BUTYL ETHER	9.355	59	17805	1.89	PPb		98
30) 2-BUTANONE	9.580	72	2513	7.95	PPb		93
31) 2,2-DICHLOROPROPANE	9.617	77	7325	1.81	PPb		99
32) cis-1,2-DICHLOROETHYLENE	9.606	96	6072	1.87	PPb		96
33) PROPIONITRILE	9.612	54	10077	20.00	PPb		87
34) METHYLACRYLATE	9.769	55	4342	1.59	PPb		100
35) METHACRYLONITRILE	9.853	41	3944	2.08	PPb		95
36) BROMOCHLOROMETHANE	9.931	128	2919	1.90	PPb		91
37) CHLOROFORM	9.999	83	9097	1.87	PPb		97
38) TETRAHYDROFURAN	10.031	42	2633	1.71	PPb		86
39) 1,1,1-TRICHLOROETHANE	10.304	97	6620	1.81	PPb		94
40) CYCLOHEXANE	10.435	84	6355	2.07	PPb	#	100
41) 1-CHLOROBUTANE	10.414	56	16735	1.98	PPb		92
42) 1,1-DICHLOROPROPENE	10.519	75	6323	1.93	PPb		98
43) CARBON TETRACHLORIDE	10.550	117	5288	1.88	PPb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62294.D
Acq On : 10 Nov 2011 11:18 am
Operator : mohui
Sample : ic2865-2
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 10 16:02:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:02:24 2011
Response via : Initial Calibration

6.7.3 6

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	1,2-DICHLOROETHANE	10.755	62	7432	1.95	PPb		97
45)	BENZENE	10.781	78	21425	1.87	PPb		98
46)	TERT AMYL METHYL ETHER	10.849	73	17515	1.86	PPB		99
47)	TRICHLOROETHYLENE	11.562	95	5150	1.86	PPb		97
48)	METHYLCYCLOHEXANE	11.829	83	7723	2.01	PPb		99
49)	METHYL METHACRYLATE	11.856	69	5811	1.88	PPb		74
50)	1,2-DICHLOROPROPANE	11.803	63	5874	1.97	PPb		98
51)	DIBROMOMETHANE	11.966	93	3687	1.89	PPb		97
52)	BROMODICHLOROMETHANE	12.107	83	7041	1.93	PPb		99
53)	CHLOROACETONITRILE	12.280	75	1718	9.28	PPb		91
54)	2-NITROPROPANE	12.301	41	1948	1.85	PPb		89
55)	2-CHLOROETHYL VINYL ETHER	12.375	63	21775	9.80	PPb		99
56)	cis-1,3-DICHLOROPROPENE	12.616	75	9435	1.95	PPb		99
57)	4-METHYL-2-PENTANONE	12.710	58	10543	7.88	PPb		98
58)	1,1-DICHLOROPROPANONE	12.805	43	2878	1.49	PPb		82
59)	TOLUENE	13.035	92	12944	1.89	PPb		99
60)	trans-1,3-DICHLOROPROPENE	13.213	75	8624	1.96	PPb		97
61)	ETHYL METHACRYLATE	13.245	69	8046	1.99	PPb		94
62)	1,1,2-TRICHLOROETHANE	13.439	83	4705	1.97	PPb		96
63)	1,3-DICHLOROPROPANE	13.633	76	9709	1.93	PPb		96
64)	2-HEXANONE	13.638	58	9930	7.85	PPb		96
65)	TETRACHLOROETHYLENE	13.696	166	5554	1.86	PPb		93
66)	DIBROMOCHLOROMETHANE	13.927	129	5605	1.94	PPb		98
67)	1,2-DIBROMOETHANE	14.094	107	5513	1.91	PPb		97
68)	CHLOROBENZENE	14.624	112	14955	1.91	PPb		96
69)	1,1,1,2-TETRACHLOROETHANE	14.676	131	5439	1.91	PPb		95
70)	ETHYLBENZENE	14.692	91	24959	1.86	PPb		98
71)	m,p-XYLENE	14.813	106	19664	3.78	PPb		96
72)	o-XYLENE	15.258	106	10030	1.93	PPb		96
73)	STYRENE	15.269	104	16205	1.97	PPb		97
74)	BROMOFORM	15.526	173	3753	1.95	PPb		95
75)	ISOPROPYLBENZENE	15.636	105	24894	1.87	PPb		95
76)	BROMOBENZENE	16.050	156	6465	1.89	PPb		94
77)	1,1,2,2-TETRACHLOROETHANE	15.908	83	8389	1.93	PPb		100
78)	TRANS-1,4-DICHLORO-2-B...	15.961	53	1649	1.95	PPb		95
79)	1,2,3-TRICHLOROPROPANE	15.992	110	2475	1.90	PPb	#	93
80)	n-PROPYLBENZENE	16.076	91	30516	1.92	PPb		98
81)	O-CHLOROTOLUENE	16.228	126	6196	1.92	PPb		98
82)	1,3,5-TRIMETHYLBENZENE	16.239	105	21964	1.90	PPb		98
83)	P-CHLOROTOLUENE	16.328	91	19639	1.88	PPb		98
84)	tert-BUTYLBENZENE	16.611	119	18175	1.92	PPb		98
85)	1,2,4-TRIMETHYLBENZENE	16.658	105	22461	1.90	PPb		92
86)	PENTACHLOROETHANE	16.684	167	3410	1.89	PPb		90
87)	sec-BUTYLBENZENE	16.847	105	28451	1.97	PPb		99
88)	p-ISOPROPYLTOLUENE	16.973	119	23172	1.93	PPb		99
89)	M-DICHLOROBENZENE	17.041	146	12812	1.88	PPb		96
90)	P-DICHLOROBENZENE	17.125	146	13543	1.99	PPb		99
91)	n-BUTYLBENZENE	17.413	92	12407	1.96	PPb		98
92)	O-DICHLOROBENZENE	17.539	146	13268	1.92	PPb		97
93)	HEXACHLOROETHANE	17.848	201	3337	1.94	PPb		97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62294.D
Acq On : 10 Nov 2011 11:18 am
Operator : mohui
Sample : ic2865-2
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 10 16:02:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:02:24 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.325	155	1339	1.95	PPb	79
95) NITROBENZENE	18.540	77	3095	18.85	PPb	93
96) 1,2,4-TRICHLOROBENZENE	19.227	180	8743	1.96	PPb	98
97) HEXACHLOROBUTADIENE	19.364	225	4353	1.92	PPb	97
98) NAPHTHALENE	19.510	128	20723	1.96	PPb	98
99) 1,2,3-TRICHLOROBENZENE	19.773	180	8413	1.97	PPb	98

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

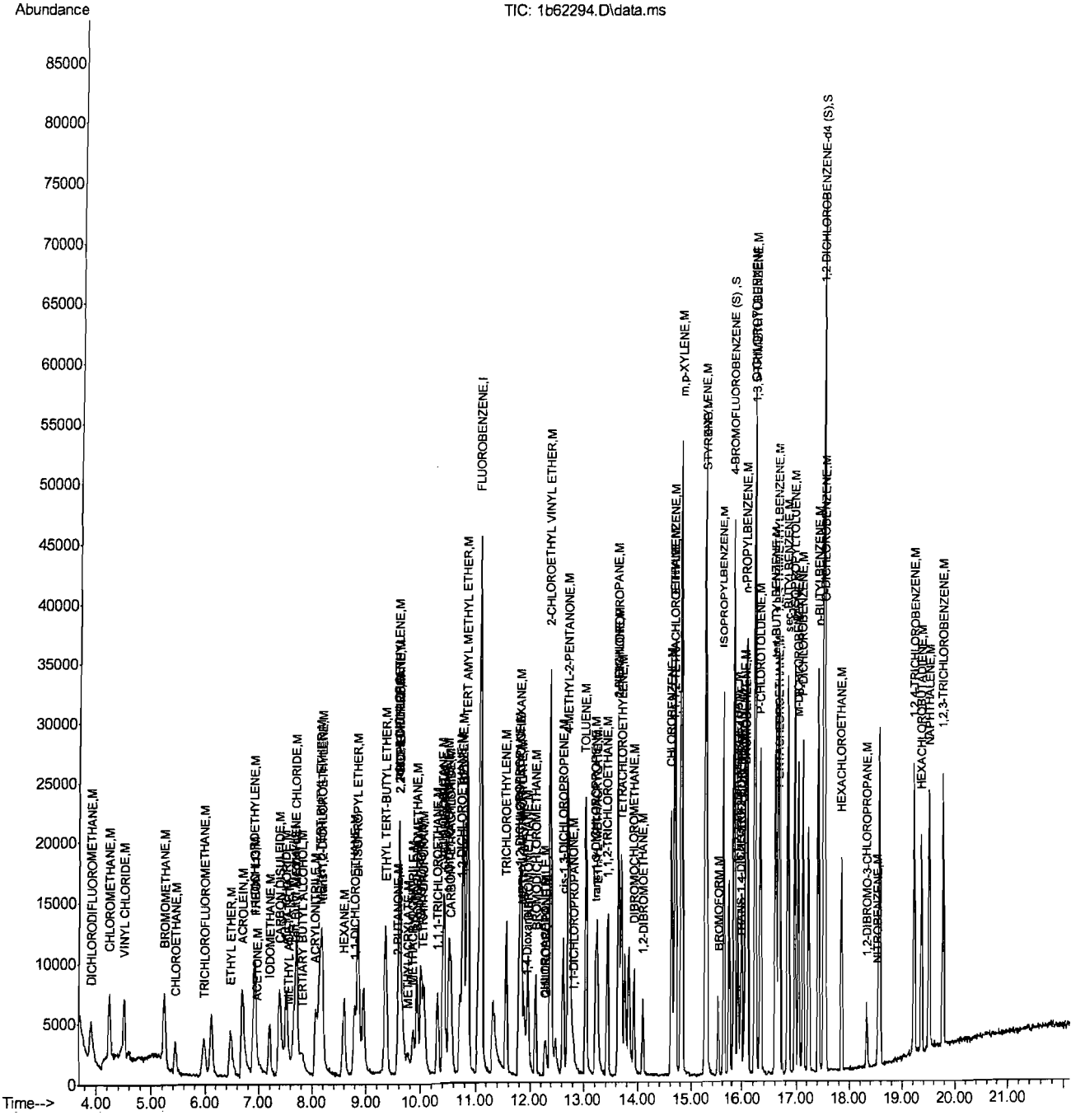
6.7.3 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62294.D
Acq On : 10 Nov 2011 11:18 am
Operator : mohui
Sample : ic2865-2
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 10 16:02:31 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:02:24 2011
Response via : Initial Calibration

6.7.3 6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62295.D
Acq On : 10 Nov 2011 11:50 am
Operator : mohui
Sample : ic2865-5
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 16:03:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:03:05 2011
Response via : Initial Calibration

6.7.4 6

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.677	65	16787	50.00	PPB		0.01
4) FLUOROBENZENE	11.095	96	57218	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.840	95	21020	5.03	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 100.60%				
6) 1,2-DICHLOROBENZENE-d4...	17.518	152	21700	5.00	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 100.00%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.792	59	12186	24.05	PPb		98
3) 1,4-Dioxane	11.934	88	4526	138.33	PPB		92
7) DICHLORODIFLUOROMETHANE	3.912	85	14206	5.32	PPb		97
8) CHLOROMETHANE	4.242	50	21794	4.71	PPb		98
9) VINYL CHLORIDE	4.520	62	19522	5.04	PPb		98
10) BROMOMETHANE	5.233	94	13312	4.73	PPb		99
11) CHLOROETHANE	5.438	64	11493	4.82	PPb		98
12) TRICHLOROFLUOROMETHANE	5.978	101	17658	5.15	PPb		99
13) ETHYL ETHER	6.460	45	9565	5.24	PPb		97
14) ACROLEIN	6.675	56	36951	49.34	PPb		96
15) 1,1-DICHLOROETHYLENE	6.922	96	11701	5.10	PPb		98
16) FREON 113	6.922	151	7452	5.29	PPb		94
17) ACETONE	6.948	58	5052	22.97	PPb		92
18) IODOMETHANE	7.194	142	21638	5.01	PPb		97
19) CARBON DISULFIDE	7.378	76	42832	5.09	PPb		99
20) METHYL ACETATE	7.525	74	2721	5.06	PPb	#	1
21) ALLYL CHLORIDE	7.504	76	8647	5.30	PPb		96
22) METHYLENE CHLORIDE	7.692	84	16567	4.79	PPb		98
23) ACRYLONITRILE	8.028	53	35509	26.09	PPb		97
24) METHYL TERT BUTYL ETHER	8.133	73	47778	4.96	PPb		98
25) trans-1,2-DICHLOROETHY...	8.175	61	19744	5.12	PPb		97
26) HEXANE	8.584	57	14413	4.99	PPb		98
27) 1,1-DICHLOROETHANE	8.778	63	25887	5.10	PPb		98
28) DI-ISOPROPYL ETHER	8.835	45	47075	4.60	PPb		98
29) ETHYL TERT-BUTYL ETHER	9.354	59	43736	4.54	PPb		96
30) 2-BUTANONE	9.554	72	7404	22.69	PPb		96
31) 2,2-DICHLOROPROPANE	9.617	77	19952	4.89	PPb		99
32) cis-1,2-DICHLOROETHYLENE	9.601	96	16561	5.01	PPb		96
33) PROPIONITRILE	9.590	54	28308	54.31	PPb		97
34) METHYLACRYLATE	9.727	55	12900	4.89	PPb		100
35) METHACRYLONITRILE	9.837	41	9786	4.93	PPb		91
36) BROMOCHLOROMETHANE	9.926	128	8085	5.16	PPb		91
37) CHLOROFORM	9.999	83	25026	5.05	PPb		100
38) TETRAHYDROFURAN	10.020	42	6491	4.23	PPb		96
39) 1,1,1-TRICHLOROETHANE	10.309	97	19307	5.22	PPb		95
40) CYCLOHEXANE	10.429	84	19134	5.98	PPb	#	100
41) 1-CHLOROBUTANE	10.414	56	48398	5.56	PPb		99
42) 1,1-DICHLOROPROPENE	10.518	75	17826	5.30	PPb		99
43) CARBON TETRACHLORIDE	10.555	117	15954	5.56	PPb		95

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62295.D
Acq On : 10 Nov 2011 11:50 am
Operator : mohui
Sample : ic2865-5
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 16:03:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:03:05 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.754	62	19660	5.03 PPb	99
45) BENZENE	10.775	78	57965	4.98 PPb	99
46) TERT AMYL METHYL ETHER	10.849	73	42836	4.47 PPB	98
47) TRICHLOROETHYLENE	11.556	95	14442	5.14 PPb	98
48) METHYLCYCLOHEXANE	11.834	83	20031	5.03 PPb	99
49) METHYL METHACRYLATE	11.840	69	16331	5.22 PPb	95
50) 1,2-DICHLOROPROPANE	11.798	63	15916	5.17 PPb	95
51) DIBROMOMETHANE	11.960	93	10353	5.21 PPb	95
52) BROMODICHLOROMETHANE	12.102	83	19034	5.08 PPb	97
53) CHLOROACETONITRILE	12.264	75	4905	26.24 PPb	97
54) 2-NITROPROPANE	12.291	41	4624	4.33 PPb	97
55) 2-CHLOROETHYL VINYL ETHER	12.374	63	55268	24.16 PPb	98
56) cis-1,3-DICHLOROPROPENE	12.610	75	25245	5.08 PPb	100
57) 4-METHYL-2-PENTANONE	12.705	58	26578	19.28 PPb	97
58) 1,1-DICHLOROPROPANONE	12.799	43	8915	4.76 PPb	93
59) TOLUENE	13.030	92	36076	5.17 PPb	97
60) trans-1,3-DICHLOROPROPENE	13.208	75	23621	5.22 PPb	98
61) ETHYL METHACRYLATE	13.240	69	21540	5.16 PPb	96
62) 1,1,2-TRICHLOROETHANE	13.433	83	12512	5.09 PPb	98
63) 1,3-DICHLOROPROPANE	13.633	76	25929	5.03 PPb	96
64) 2-HEXANONE	13.633	58	26452	20.31 PPb	100
65) TETRACHLOROETHYLENE	13.696	166	15730	5.18 PPb	95
66) DIBROMOCHLOROMETHANE	13.926	129	15151	5.11 PPb	97
67) 1,2-DIBROMOETHANE	14.089	107	15098	5.12 PPb	97
68) CHLOROBENZENE	14.624	112	40178	5.02 PPb	96
69) 1,1,1,2-TETRACHLOROETHANE	14.676	131	14746	5.07 PPb	96
70) ETHYLBENZENE	14.692	91	69241	5.07 PPb	99
71) m,p-XYLENE	14.812	106	54311	10.23 PPb	98
72) o-XYLENE	15.258	106	27562	5.18 PPb	96
73) STYRENE	15.263	104	44731	5.27 PPb	98
74) BROMOFORM	15.520	173	10319	5.22 PPb	99
75) ISOPROPYLBENZENE	15.636	105	69079	5.10 PPb	100
76) BROMOBENZENE	16.050	156	17777	5.08 PPb	94
77) 1,1,2,2-TETRACHLOROETHANE	15.908	83	22302	5.00 PPb	98
78) TRANS-1,4-DICHLORO-2-B...	15.955	53	4833	5.56 PPb	94
79) 1,2,3-TRICHLOROPROPANE	15.987	110	6501	4.88 PPb	99
80) n-PROPYLBENZENE	16.076	91	82924	5.10 PPb	99
81) O-CHLOROTOLUENE	16.228	126	17336	5.25 PPb	88
82) 1,3,5-TRIMETHYLBENZENE	16.239	105	60676	5.15 PPb	97
83) P-CHLOROTOLUENE	16.328	91	53929	5.07 PPb	99
84) tert-BUTYLBENZENE	16.611	119	50682	5.22 PPb	99
85) 1,2,4-TRIMETHYLBENZENE	16.658	105	62499	5.18 PPb	97
86) PENTACHLOROETHANE	16.684	167	9589	5.22 PPb	95
87) sec-BUTYLBENZENE	16.841	105	78000	5.23 PPb	100
88) p-ISOPROPYLTOLUENE	16.967	119	64704	5.26 PPb	99
89) M-DICHLOROBENZENE	17.035	146	34958	5.03 PPb	99
90) P-DICHLOROBENZENE	17.125	146	36474	5.19 PPb	99
91) n-BUTYLBENZENE	17.413	92	34940	5.36 PPb	100
92) O-DICHLOROBENZENE	17.539	146	35234	4.98 PPb	98
93) HEXACHLOROETHANE	17.848	201	9462	5.36 PPb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62295.D
Acq On : 10 Nov 2011 11:50 am
Operator : mohui
Sample : ic2865-5
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 16:03:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:03:05 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.330	155	3795	5.39	PPb	98
95) NITROBENZENE	18.540	77	8178	48.85	PPb	94
96) 1,2,4-TRICHLOROBENZENE	19.227	180	24623	5.37	PPb	96
97) HEXACHLOROBUTADIENE	19.363	225	12015	5.17	PPb	98
98) NAPHTHALENE	19.505	128	59216	5.45	PPb	100
99) 1,2,3-TRICHLOROBENZENE	19.772	180	23058	5.24	PPb	100

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

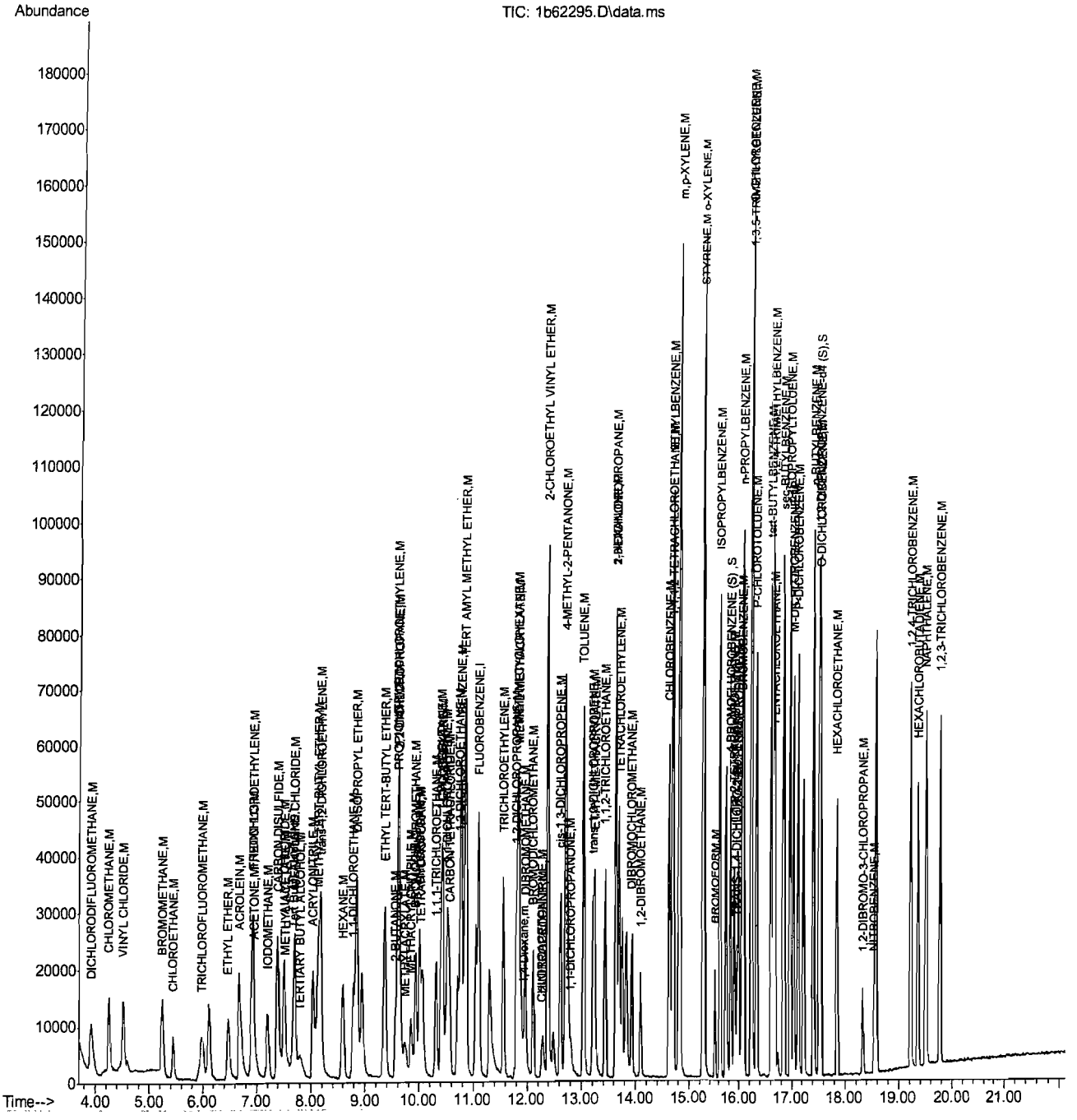
6.7.4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62295.D
Acq On : 10 Nov 2011 11:50 am
Operator : mohui
Sample : ic2865-5
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Nov 10 16:03:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 16:03:05 2011
Response via : Initial Calibration

6.7.4 6



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62296.D
Acq On : 10 Nov 2011 12:22 pm
Operator : mohui
Sample : icc2865-10
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 10 12:49:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 12:36:24 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.666	65	17192	50.00	PPB		0.00
4) FLUOROBENZENE	11.095	96	56748	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.840	95	20660	4.98	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 99.60%				
6) 1,2-DICHLOROBENZENE-d4...	17.518	152	21689	5.04	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 100.80%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.792	59	26037	50.57	PPb		100
3) 1,4-Dioxane	11.934	88	9815	258.59	PPB		91
7) DICHLORODIFLUOROMETHANE	3.918	85	29152	10.87	PPb		97
8) CHLOROMETHANE	4.248	50	42406	9.35	PPb		100
9) VINYL CHLORIDE	4.521	62	40476	10.52	PPb		96
10) BROMOMETHANE	5.239	94	27337	9.90	PPb		99
11) CHLOROETHANE	5.443	64	23827	10.15	PPb		97
12) TRICHLOROFLUOROMETHANE	5.983	101	36022	10.54	PPb		95
13) ETHYL ETHER	6.466	45	19727	10.80	PPb		93
14) ACROLEIN	6.665	56	77473	104.65	PPb		99
15) 1,1-DICHLOROETHYLENE	6.922	96	24958	10.92	PPb		95
16) FREON 113	6.922	151	16611	11.76	PPb		95
17) ACETONE	6.927	58	10718	47.37	PPb		95
18) IODOMETHANE	7.205	142	46250	10.80	PPb		96
19) CARBON DISULFIDE	7.378	76	92870	11.08	PPb		98
20) METHYL ACETATE	7.509	74	6290	11.75	PPb	#	92
21) ALLYL CHLORIDE	7.499	76	18951	11.57	PPb		92
22) METHYLENE CHLORIDE	7.698	84	33772	9.93	PPb		96
23) ACRYLONITRILE	8.018	53	74488	54.71	PPb		97
24) METHYL TERT BUTYL ETHER	8.133	73	97076	10.18	PPb		98
25) trans-1,2-DICHLOROETHY...	8.170	61	41858	10.89	PPb		98
26) HEXANE	8.584	57	30535	10.66	PPb		97
27) 1,1-DICHLOROETHANE	8.783	63	53665	10.62	PPb		98
28) DI-ISOPROPYL ETHER	8.841	45	97418	9.75	PPb		97
29) ETHYL TERT-BUTYL ETHER	9.355	59	89941	9.60	PPb		96
30) 2-BUTANONE	9.538	72	15171	45.35	PPb		86
31) 2,2-DICHLOROPROPANE	9.617	77	42443	10.53	PPb		98
32) cis-1,2-DICHLOROETHYLENE	9.601	96	34610	10.55	PPb		97
33) PROPIONITRILE	9.585	54	57990	110.28	PPb		97
34) METHYLACRYLATE	9.711	55	29384	11.86	PPb		100
35) METHACRYLONITRILE	9.826	41	20175	10.28	PPb		98
36) BROMOCHLOROMETHANE	9.926	128	16739	10.70	PPb		95
37) CHLOROFORM	10.000	83	51775	10.52	PPb		100
38) TETRAHYDROFURAN	10.021	42	13020	8.82	PPb		89
39) 1,1,1-TRICHLOROETHANE	10.309	97	41538	11.23	PPb		98
40) CYCLOHEXANE	10.435	84	40169	12.17	PPb	#	100
41) 1-CHLOROBUTANE	10.414	56	102810	11.65	PPb		93
42) 1,1-DICHLOROPROPENE	10.513	75	37848	11.22	PPb		99
43) CARBON TETRACHLORIDE	10.555	117	33864	11.64	PPb		100

6.7.5 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62296.D
Acq On : 10 Nov 2011 12:22 pm
Operator : mohui
Sample : icc2865-10
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 10 12:49:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 12:36:24 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.749	62	40940	10.55 PPb	96
45) BENZENE	10.775	78	121782	10.56 PPb	99
46) TERT AMYL METHYL ETHER	10.854	73	88272	9.49 PPB	99
47) TRICHLOROETHYLENE	11.557	95	30273	10.80 PPb	98
48) METHYLCYCLOHEXANE	11.835	83	42232	10.68 PPb	99
49) METHYL METHACRYLATE	11.835	69	34551	11.01 PPb	91
50) 1,2-DICHLOROPROPANE	11.798	63	32927	10.72 PPb	97
51) DIBROMOMETHANE	11.960	93	20574	10.35 PPb	96
52) BROMODICHLOROMETHANE	12.107	83	39602	10.63 PPb	99
53) CHLOROACETONITRILE	12.259	75	10721	57.13 PPb	97
54) 2-NITROPROPANE	12.291	41	8884	8.61 PPb	95
55) 2-CHLOROETHYL VINYL ETHER	12.369	63	113594	50.41 PPb	98
56) cis-1,3-DICHLOROPROPENE	12.611	75	52148	10.55 PPb	100
57) 4-METHYL-2-PENTANONE	12.700	58	54432	40.11 PPb	99
58) 1,1-DICHLOROPROPANONE	12.799	43	16733	9.09 PPb	97
59) TOLUENE	13.030	92	74945	10.75 PPb	98
60) trans-1,3-DICHLOROPROPENE	13.208	75	48300	10.67 PPb	96
61) ETHYL METHACRYLATE	13.234	69	45088	10.83 PPb	96
62) 1,1,2-TRICHLOROETHANE	13.434	83	25317	10.35 PPb	99
63) 1,3-DICHLOROPROPANE	13.633	76	52819	10.32 PPb	95
64) 2-HEXANONE	13.628	58	53470	41.27 PPb	98
65) TETRACHLOROETHYLENE	13.691	166	32727	10.79 PPb	97
66) DIBROMOCHLOROMETHANE	13.927	129	31490	10.66 PPb	99
67) 1,2-DIBROMOETHANE	14.089	107	31033	10.56 PPb	97
68) CHLOROBENZENE	14.619	112	83654	10.53 PPb	87
69) 1,1,1,2-TETRACHLOROETHANE	14.676	131	30707	10.61 PPb	99
70) ETHYLBENZENE	14.692	91	143577	10.58 PPb	100
71) m,p-XYLENE	14.813	106	112941	21.35 PPb	100
72) o-XYLENE	15.258	106	56958	10.72 PPb	100
73) STYRENE	15.264	104	94403	11.10 PPb	99
74) BROMOFORM	15.520	173	21923	11.08 PPb	98
75) ISOPROPYLBENZENE	15.636	105	146322	10.85 PPb	100
76) BROMOBENZENE	16.050	156	36489	10.49 PPb	93
77) 1,1,2,2-TETRACHLOROETHANE	15.908	83	45116	10.20 PPb	98
78) TRANS-1,4-DICHLORO-2-B...	15.956	53	9942	11.28 PPb	98
79) 1,2,3-TRICHLOROPROPANE	15.987	110	13422	10.21 PPb	99
80) n-PROPYLBENZENE	16.076	91	173213	10.70 PPb	99
81) O-CHLOROTOLUENE	16.228	126	34984	10.58 PPb	98
82) 1,3,5-TRIMETHYLBENZENE	16.239	105	126382	10.75 PPb	99
83) P-CHLOROTOLUENE	16.328	91	110084	10.40 PPb	99
84) tert-BUTYLBENZENE	16.611	119	104707	10.79 PPb	99
85) 1,2,4-TRIMETHYLBENZENE	16.658	105	128879	10.69 PPb	99
86) PENTACHLOROETHANE	16.684	167	20703	11.26 PPb	98
87) sec-BUTYLBENZENE	16.842	105	161615	10.83 PPb	99
88) p-ISOPROPYLTOLUENE	16.973	119	134127	10.88 PPb	99
89) M-DICHLOROBENZENE	17.036	146	71825	10.42 PPb	99
90) P-DICHLOROBENZENE	17.125	146	74536	10.61 PPb	98
91) n-BUTYLBENZENE	17.413	92	73209	11.16 PPb	99
92) O-DICHLOROBENZENE	17.539	146	73087	10.43 PPb	99
93) HEXACHLOROETHANE	17.854	201	19779	11.46 PPb	99

6.7.5 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62296.D
Acq On : 10 Nov 2011 12:22 pm
Operator : mohui
Sample : icc2865-10
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 10 12:49:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 12:36:24 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.331	155	8028	11.70	PPb	94
95) NITROBENZENE	18.535	77	20104	128.60	PPb	99
96) 1,2,4-TRICHLOROBENZENE	19.227	180	51641	11.53	PPb	98
97) HEXACHLOROBUTADIENE	19.369	225	25059	11.02	PPb	98
98) NAPHTHALENE	19.505	128	129140	12.32	PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.773	180	48940	11.43	PPb	99

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

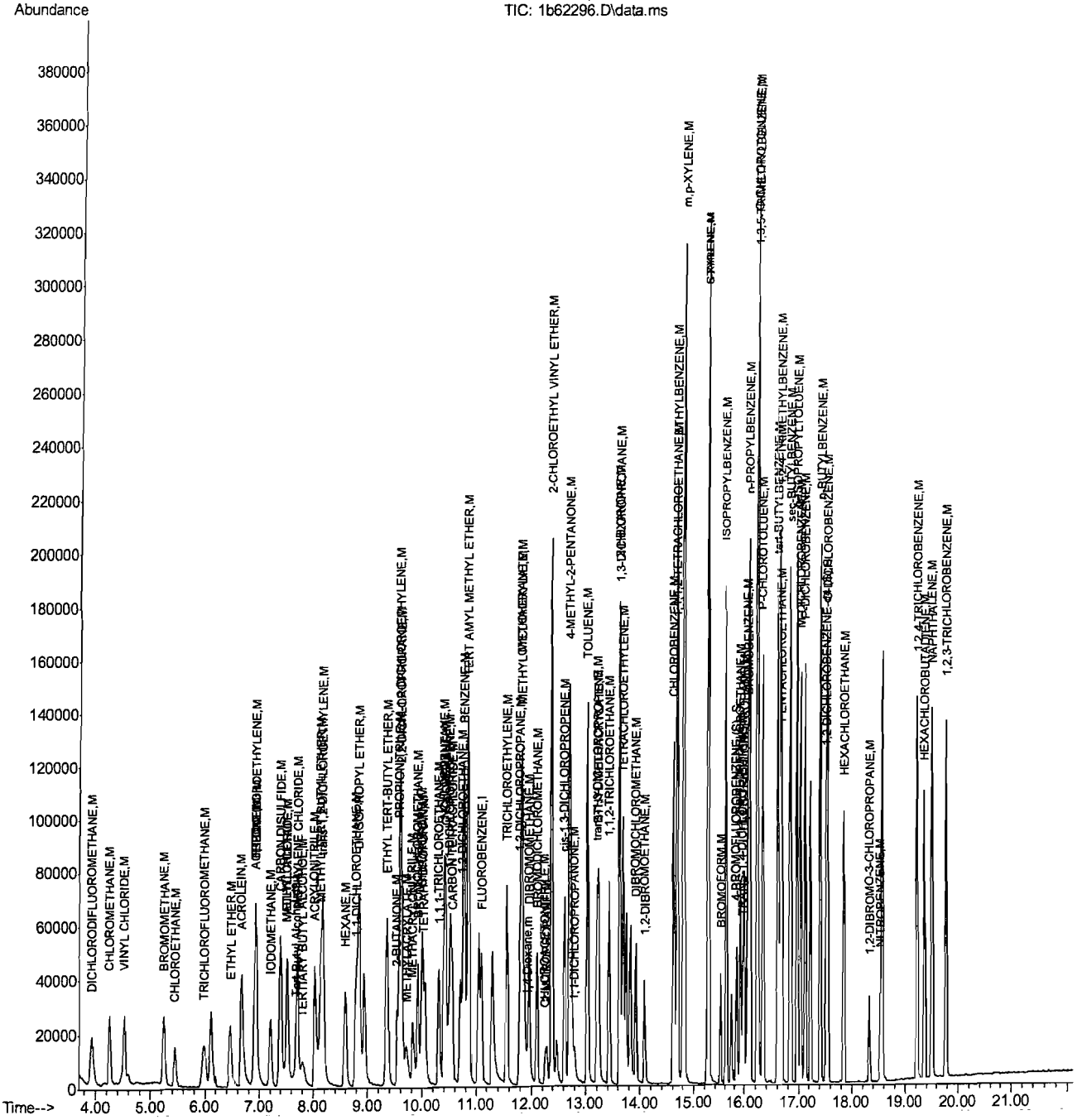
6.7.5 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62296.D
Acq On : 10 Nov 2011 12:22 pm
Operator : mohui
Sample : icc2865-10
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 10 12:49:48 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 12:36:24 2011
Response via : Initial Calibration

6.7.5 6



M1B2865.M Fri Nov 11 09:58:27 2011 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62297.D
Acq On : 10 Nov 2011 12:54 pm
Operator : mohui
Sample : ic2865-20
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 10 13:12:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 12:49:56 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.672	65	17111	50.00	PPB		0.00
4) FLUOROBENZENE	11.095	96	56305	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.840	95	20415	4.96	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 99.20%				
6) 1,2-DICHLOROBENZENE-d4...	17.518	152	21690	5.08	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 101.60%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.797	59	50918	99.36	PPb		100
3) 1,4-Dioxane	11.929	88	19691	521.24	PPB		96
7) DICHLORODIFLUOROMETHANE	3.939	85	52783	19.83	PPb		99
8) CHLOROMETHANE	4.258	50	76991	17.11	PPb		97
9) VINYL CHLORIDE	4.536	62	73872	19.34	PPb		96
10) BROMOMETHANE	5.244	94	48778	17.80	PPb		97
11) CHLOROETHANE	5.449	64	42729	18.35	PPb		98
12) TRICHLOROFLUOROMETHANE	5.994	101	64788	19.10	PPb		94
13) ETHYL ETHER	6.466	45	35877	19.79	PPb		94
14) ACROLEIN	6.665	56	154110	209.82	PPb		100
15) 1,1-DICHLOROETHYLENE	6.927	96	44981	19.83	PPb		99
16) FREON 113	6.927	151	33000	23.54	PPb		98
17) ACETONE	6.932	58	21983	97.93	PPb		93
18) IODOMETHANE	7.205	142	82157	19.34	PPb		97
19) CARBON DISULFIDE	7.383	76	168339	20.25	PPb		99
20) METHYL ACETATE	7.493	74	13542	25.50	PPb		99
21) ALLYL CHLORIDE	7.509	76	32267	19.85	PPb		97
22) METHYLENE CHLORIDE	7.703	84	59514	17.64	PPb		93
23) ACRYLONITRILE	8.012	53	133395	98.75	PPb		97
24) METHYL TERT BUTYL ETHER	8.143	73	175139	18.50	PPb		97
25) trans-1,2-DICHLOROETHY...	8.175	61	75315	19.75	PPb		98
26) HEXANE	8.589	57	61801	21.74	PPb		97
27) 1,1-DICHLOROETHANE	8.783	63	95786	19.11	PPb		99
28) DI-ISOPROPYL ETHER	8.841	45	195951	19.77	PPb		95
29) ETHYL TERT-BUTYL ETHER	9.360	59	181900	19.56	PPb		98
30) 2-BUTANONE	9.538	72	31439	94.72	PPb		91
31) 2,2-DICHLOROPROPANE	9.622	77	74546	18.64	PPb		98
32) cis-1,2-DICHLOROETHYLENE	9.601	96	61251	18.82	PPb		99
33) PROPIONITRILE	9.580	54	107523	206.09	PPb		99
34) METHYLACRYLATE	9.701	55	56081	22.81	PPb		100
35) METHACRYLONITRILE	9.826	41	35492	18.23	PPb		93
36) BROMOCHLOROMETHANE	9.931	128	30556	19.69	PPb		94
37) CHLOROFORM	10.005	83	93433	19.13	PPb		99
38) TETRAHYDROFURAN	10.005	42	23572	16.10	PPb		90
39) 1,1,1-TRICHLOROETHANE	10.314	97	75050	20.45	PPb		99
40) CYCLOHEXANE	10.435	84	71556	21.86	PPb	#	100
41) 1-CHLOROBUTANE	10.414	56	185135	21.14	PPb		96
42) 1,1-DICHLOROPROPENE	10.519	75	69559	20.78	PPb		98
43) CARBON TETRACHLORIDE	10.560	117	61459	21.29	PPb		100

6.7.6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62297.D
Acq On : 10 Nov 2011 12:54 pm
Operator : mohui
Sample : ic2865-20
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 10 13:12:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 12:49:56 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.754	62	73304	19.03	PPb	97
45) BENZENE	10.781	78	219167	19.15	PPb	99
46) TERT AMYL METHYL ETHER	10.849	73	176682	19.15	PPB	99
47) TRICHLOROETHYLENE	11.557	95	55187	19.85	PPb	99
48) METHYLCYCLOHEXANE	11.835	83	86654	22.08	PPb	98
49) METHYL METHACRYLATE	11.835	69	65886	21.17	PPb	90
50) 1,2-DICHLOROPROPANE	11.798	63	59133	19.40	PPb	97
51) DIBROMOMETHANE	11.960	93	37350	18.93	PPb	98
52) BROMODICHLOROMETHANE	12.107	83	73045	19.76	PPb	98
53) CHLOROACETONITRILE	12.254	75	21078	113.20	PPb	96
54) 2-NITROPROPANE	12.285	41	15816	15.45	PPb	98
55) 2-CHLOROETHYL VINYL ETHER	12.369	63	230782	103.23	PPb	98
56) cis-1,3-DICHLOROPROPENE	12.611	75	95811	19.54	PPb	99
57) 4-METHYL-2-PENTANONE	12.700	58	110875	82.34	PPb	97
58) 1,1-DICHLOROPROPANONE	12.799	43	31385	17.19	PPb	98
59) TOLUENE	13.030	92	136496	19.73	PPb	100
60) trans-1,3-DICHLOROPROPENE	13.208	75	90079	20.06	PPb	98
61) ETHYL METHACRYLATE	13.234	69	85236	20.63	PPb	93
62) 1,1,2-TRICHLOROETHANE	13.428	83	47167	19.43	PPb	99
63) 1,3-DICHLOROPROPANE	13.633	76	95591	18.83	PPb	91
64) 2-HEXANONE	13.628	58	105138	81.78	PPb	98
65) TETRACHLOROETHYLENE	13.691	166	59829	19.88	PPb	99
66) DIBROMOCHLOROMETHANE	13.927	129	59245	20.22	PPb	98
67) 1,2-DIBROMOETHANE	14.089	107	57214	19.62	PPb	100
68) CHLOROBENZENE	14.619	112	154144	19.56	PPb	97
69) 1,1,1,2-TETRACHLOROETHANE	14.682	131	56712	19.75	PPb	99
70) ETHYLBENZENE	14.692	91	265153	19.69	PPb	100
71) m,p-XYLENE	14.813	106	207067	39.45	PPb	99
72) o-XYLENE	15.258	106	105178	19.95	PPb	100
73) STYRENE	15.264	104	179036	21.21	PPb	97
74) BROMOFORM	15.526	173	42055	21.42	PPb	99
75) ISOPROPYLBENZENE	15.636	105	272900	20.39	PPb	100
76) BROMOBENZENE	16.050	156	67857	19.66	PPb	93
77) 1,1,2,2-TETRACHLOROETHANE	15.908	83	86331	19.67	PPb	98
78) TRANS-1,4-DICHLORO-2-B...	15.956	53	19077	21.82	PPb	99
79) 1,2,3-TRICHLOROPROPANE	15.987	110	25223	19.34	PPb	87
80) n-PROPYLBENZENE	16.076	91	322957	20.10	PPb	99
81) O-CHLOROTOLUENE	16.228	126	65214	19.88	PPb	94
82) 1,3,5-TRIMETHYLBENZENE	16.239	105	237385	20.35	PPb	98
83) P-CHLOROTOLUENE	16.328	91	206557	19.66	PPb	100
84) tert-BUTYLBENZENE	16.611	119	198118	20.57	PPb	99
85) 1,2,4-TRIMETHYLBENZENE	16.658	105	242152	20.24	PPb	99
86) PENTACHLOROETHANE	16.684	167	40378	22.14	PPb	98
87) sec-BUTYLBENZENE	16.847	105	306641	20.71	PPb	99
88) p-ISOPROPYLTOLUENE	16.973	119	254570	20.81	PPb	98
89) M-DICHLOROBENZENE	17.036	146	134252	19.62	PPb	99
90) P-DICHLOROBENZENE	17.125	146	140505	20.16	PPb	99
91) n-BUTYLBENZENE	17.413	92	138371	21.26	PPb	98
92) O-DICHLOROBENZENE	17.539	146	137454	19.77	PPb	99
93) HEXACHLOROETHANE	17.848	201	38183	21.67	PPb	99

6.7.6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62297.D
Acq On : 10 Nov 2011 12:54 pm
Operator : mohui
Sample : ic2865-20
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 10 13:12:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 12:49:56 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.331	155	15379	21.85	PPb	94
95) NITROBENZENE	18.535	77	46597	284.16	PPb	100
96) 1,2,4-TRICHLOROBENZENE	19.227	180	101616	22.19	PPb	100
97) HEXACHLOROBUTADIENE	19.369	225	48328	20.99	PPb	98
98) NAPHTHALENE	19.505	128	257607	23.67	PPb	100
99) 1,2,3-TRICHLOROBENZENE	19.773	180	95817	21.93	PPb	99

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

6.7.6

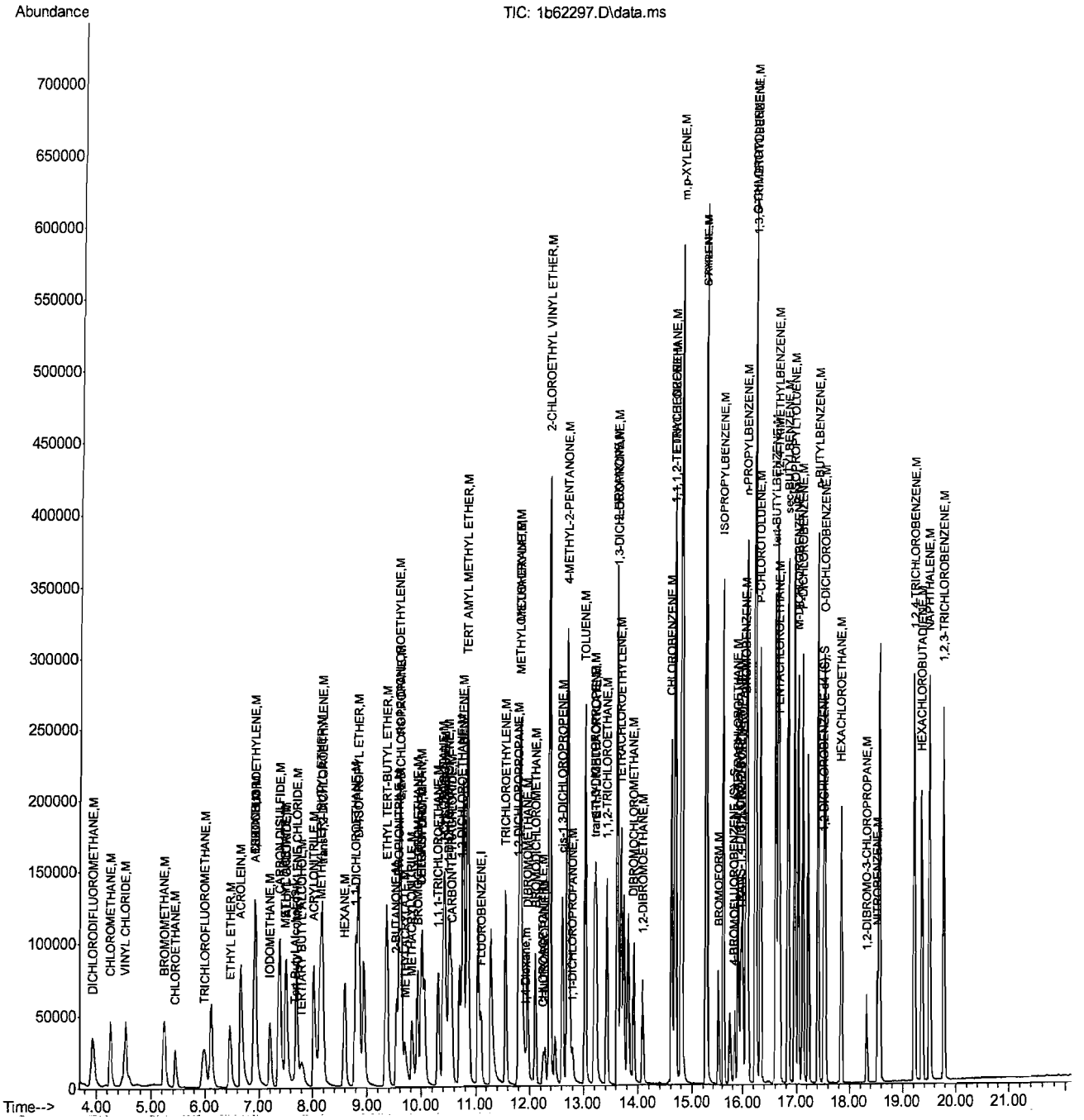
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62297.D
Acq On : 10 Nov 2011 12:54 pm
Operator : mohui
Sample : ic2865-20
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Nov 10 13:12:59 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 12:49:56 2011
Response via : Initial Calibration

6.7.6

9



M1B2865.M Fri Nov 11 09:55:49 2011 RPT1

Page: 4

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62298.D
Acq On : 10 Nov 2011 1:26 pm
Operator : mohui
Sample : ic2865-40
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 10 14:36:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 13:13:10 2011
Response via : Initial Calibration

6.7.7 G

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.677	65	18576	50.00	PPB		0.00
4) FLUOROBENZENE	11.095	96	57863	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.840	95	21243	5.03	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 100.60%				
6) 1,2-DICHLOROBENZENE-d4...	17.518	152	22637	5.14	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery = 102.80%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.792	59	106603	191.82	PPb		100
3) 1,4-Dioxane	11.929	88	40182	969.47	PPB		99
7) DICHLORODIFLUOROMETHANE	3.928	85	128030	46.87	PPb		98
8) CHLOROMETHANE	4.264	50	173546	38.46	PPb		99
9) VINYL CHLORIDE	4.541	62	169177	43.34	PPb		98
10) BROMOMETHANE	5.244	94	109513	39.62	PPb		99
11) CHLOROETHANE	5.449	64	95535	40.48	PPb		96
12) TRICHLOROFLUOROMETHANE	5.989	101	152867	44.19	PPb		95
13) ETHYL ETHER	6.460	45	77265	41.54	PPb		91
14) ACROLEIN	6.660	56	321738	422.10	PPb		99
15) 1,1-DICHLOROETHYLENE	6.922	96	94971	40.81	PPb		96
16) FREON 113	6.927	151	70079	47.25	PPb		99
17) ACETONE	6.917	58	46761	194.00	PPb		99
18) IODOMETHANE	7.205	142	176276	40.60	PPb		98
19) CARBON DISULFIDE	7.383	76	358993	41.93	PPb		99
20) METHYL ACETATE	7.483	74	27871	47.78	PPb	#	1
21) ALLYL CHLORIDE	7.504	76	69844	41.87	PPb		93
22) METHYLENE CHLORIDE	7.698	84	127134	37.41	PPb		96
23) ACRYLONITRILE	8.002	53	296471	214.01	PPb		99
24) METHYL TERT BUTYL ETHER	8.138	73	383021	39.87	PPb		82
25) trans-1,2-DICHLOROETHY...	8.170	61	158585	40.56	PPb		98
26) HEXANE	8.589	57	131535	44.38	PPb		95
27) 1,1-DICHLOROETHANE	8.783	63	200781	39.27	PPb		97
28) DI-ISOPROPYL ETHER	8.841	45	383031	37.67	PPb		96
29) ETHYL TERT-BUTYL ETHER	9.355	59	359915	37.80	PPb		98
30) 2-BUTANONE	9.528	72	65142	184.20	PPb		91
31) 2,2-DICHLOROPROPANE	9.617	77	155416	38.24	PPb		99
32) cis-1,2-DICHLOROETHYLENE	9.601	96	129103	38.99	PPb		99
33) PROPIONITRILE	9.575	54	237204	440.18	PPb		96
34) METHYLACRYLATE	9.690	55	129573	49.87	PPb		100
35) METHACRYLONITRILE	9.821	41	80478	40.83	PPb		93
36) BROMOCHLOROMETHANE	9.926	128	65769	41.35	PPb		95
37) CHLOROFORM	9.999	83	197614	39.66	PPb		98
38) TETRAHYDROFURAN	10.005	42	51336	35.26	PPb		92
39) 1,1,1-TRICHLOROETHANE	10.314	97	157312	41.56	PPb		98
40) CYCLOHEXANE	10.435	84	161338	47.22	PPb	#	100
41) 1-CHLOROBUTANE	10.408	56	395923	43.58	PPb		92
42) 1,1-DICHLOROPROPENE	10.513	75	145173	41.93	PPb		99
43) CARBON TETRACHLORIDE	10.555	117	131719	43.93	PPb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62298.D
Acq On : 10 Nov 2011 1:26 pm
Operator : mohui
Sample : ic2865-40
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 10 14:36:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 13:13:10 2011
Response via : Initial Calibration

6.7.7 6

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.749	62	157939	40.22	PPb	97
45) BENZENE	10.775	78	463038	39.66	PPb	99
46) TERT AMYL METHYL ETHER	10.854	73	352842	37.48	PPB	100
47) TRICHLOROETHYLENE	11.557	95	115847	40.60	PPb	97
48) METHYLCYCLOHEXANE	11.835	83	183935	44.83	PPb	98
49) METHYL METHACRYLATE	11.835	69	144324	44.60	PPb	94
50) 1,2-DICHLOROPROPANE	11.798	63	127189	40.80	PPb	98
51) DIBROMOMETHANE	11.960	93	81511	40.57	PPb	98
52) BROMODICHLOROMETHANE	12.107	83	157107	41.44	PPb	99
53) CHLOROACETONITRILE	12.249	75	43434	221.14	PPb	95
54) 2-NITROPROPANE	12.285	41	35327	34.91	PPb	99
55) 2-CHLOROETHYL VINYL ETHER	12.369	63	462938	200.42	PPb	98
56) cis-1,3-DICHLOROPROPENE	12.611	75	207480	41.34	PPb	99
57) 4-METHYL-2-PENTANONE	12.700	58	226055	162.57	PPb	98
58) 1,1-DICHLOROPROPANONE	12.794	43	64203	35.04	PPb	98
59) TOLUENE	13.030	92	288448	40.66	PPb	99
60) trans-1,3-DICHLOROPROPENE	13.208	75	194456	42.13	PPb	98
61) ETHYL METHACRYLATE	13.234	69	186180	43.62	PPb	93
62) 1,1,2-TRICHLOROETHANE	13.434	83	100268	40.39	PPb	99
63) 1,3-DICHLOROPROPANE	13.633	76	205421	39.77	PPb	95
64) 2-HEXANONE	13.622	58	216570	163.31	PPb	98
65) TETRACHLOROETHYLENE	13.696	166	126300	40.88	PPb	98
66) DIBROMOCHLOROMETHANE	13.927	129	128532	42.61	PPb	99
67) 1,2-DIBROMOETHANE	14.089	107	123532	41.35	PPb	98
68) CHLOROBENZENE	14.619	112	326800	40.50	PPb	90
69) 1,1,1,2-TETRACHLOROETHANE	14.682	131	120757	41.01	PPb	99
70) ETHYLBENZENE	14.692	91	556652	40.32	PPb	100
71) m,p-XYLENE	14.813	106	436900	81.19	PPb	100
72) o-XYLENE	15.258	106	222892	41.15	PPb	97
73) STYRENE	15.264	104	383747	43.79	PPb	98
74) BROMOFORM	15.526	173	93460	45.79	PPb	98
75) ISOPROPYLBENZENE	15.636	105	569040	41.24	PPb	99
76) BROMOBENZENE	16.050	156	142875	40.39	PPb	91
77) 1,1,2,2-TETRACHLOROETHANE	15.908	83	182611	40.60	PPb	99
78) TRANS-1,4-DICHLORO-2-B...	15.956	53	42546	46.65	PPb	98
79) 1,2,3-TRICHLOROPROPANE	15.987	110	53260	39.95	PPb	99
80) n-PROPYLBENZENE	16.076	91	670304	40.57	PPb	99
81) O-CHLOROTOLUENE	16.228	126	135958	40.37	PPb	96
82) 1,3,5-TRIMETHYLBENZENE	16.239	105	496910	41.33	PPb	98
83) P-CHLOROTOLUENE	16.328	91	428162	39.78	PPb	99
84) tert-BUTYLBENZENE	16.611	119	420189	42.25	PPb	99
85) 1,2,4-TRIMETHYLBENZENE	16.658	105	507068	41.15	PPb	99
86) PENTACHLOROETHANE	16.684	167	85445	44.79	PPb	98
87) sec-BUTYLBENZENE	16.847	105	638881	41.74	PPb	98
88) p-ISOPROPYLTOLUENE	16.973	119	532908	42.10	PPb	99
89) M-DICHLOROBENZENE	17.036	146	281535	40.17	PPb	99
90) P-DICHLOROBENZENE	17.125	146	293744	40.96	PPb	98
91) n-BUTYLBENZENE	17.413	92	288219	42.64	PPb	98
92) O-DICHLOROBENZENE	17.539	146	287528	40.32	PPb	99
93) HEXACHLOROETHANE	17.854	201	80712	43.95	PPb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62298.D
Acq On : 10 Nov 2011 1:26 pm
Operator : mohui
Sample : ic2865-40
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 10 14:36:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 13:13:10 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.331	155	34508	46.98	PPb	92
95) NITROBENZENE	18.535	77	110348	611.89	PPb	98
96) 1,2,4-TRICHLOROBENZENE	19.227	180	217058	45.30	PPb	99
97) HEXACHLOROBUTADIENE	19.369	225	101501	42.55	PPb	100
98) NAPHTHALENE	19.510	128	576372	50.00	PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.773	180	205199	44.97	PPb	99

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

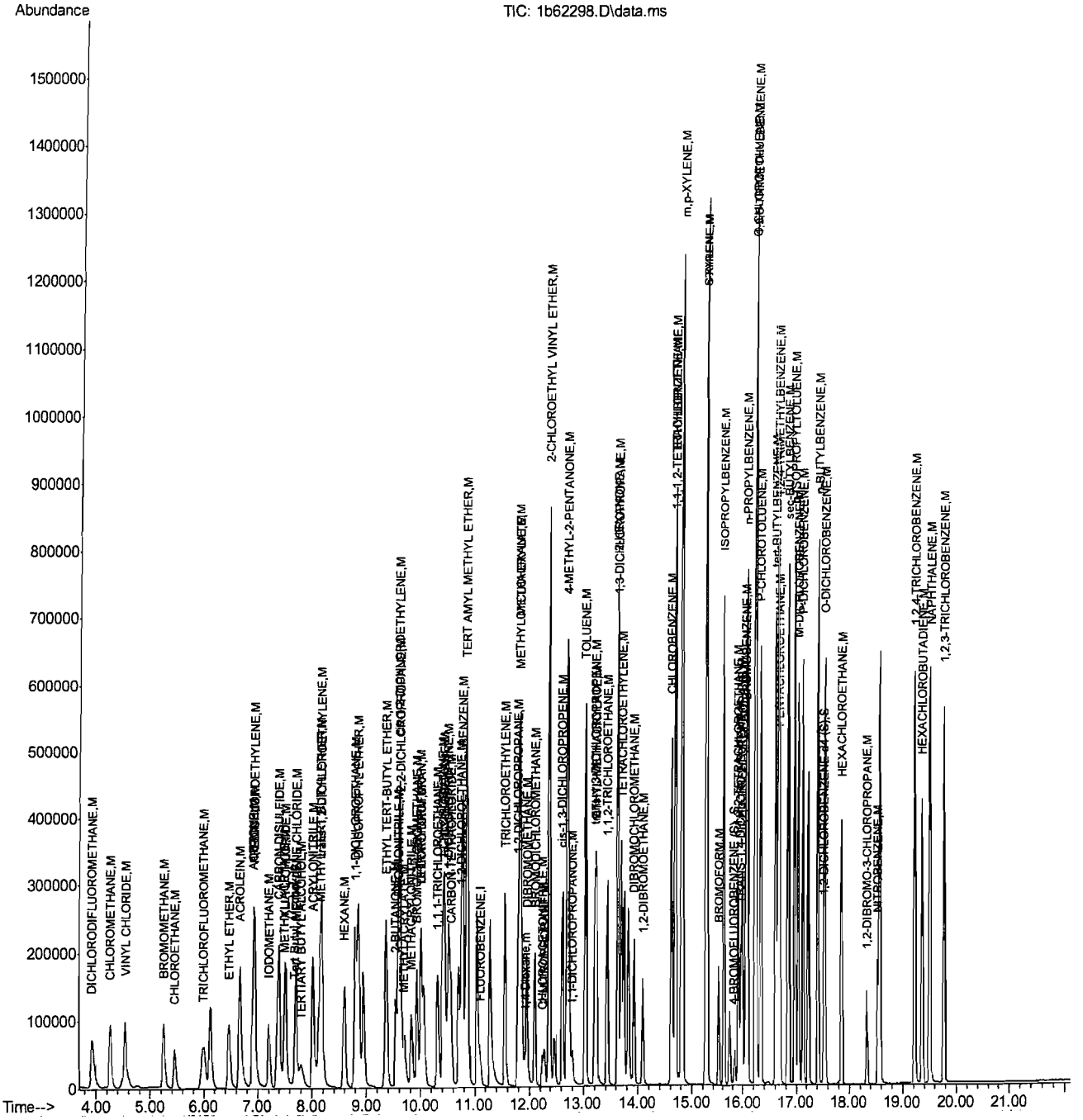
6.7.7 9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62298.D
Acq On : 10 Nov 2011 1:26 pm
Operator : mohui
Sample : ic2865-40
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 10 14:36:29 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Thu Nov 10 13:13:10 2011
Response via : Initial Calibration

6.7.7 6



M1B2865.M Fri Nov 11 09:55:52 2011 RPT1

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62300.D
Acq On : 10 Nov 2011 2:30 pm
Operator : mohui
Sample : icv2865-10
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 11 09:48:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.7.8 6

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.677	65	17550	50.00	PPB		0.00
4) FLUOROBENZENE	11.095	96	57554	5.00	PPb		0.00
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.840	95	21033	5.00	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery =	100.00%			
6) 1,2-DICHLOROBENZENE-d4...	17.518	152	22157	5.04	PPb		0.00
Spiked Amount 5.000	Range 78 - 114		Recovery =	100.80%			
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.803	59	30344	58.13	PPb		94
3) 1,4-Dioxane	11.939	88	10192	261.88	PPB		92
7) DICHLORODIFLUOROMETHANE	3.938	85	28070	9.72	PPb		98
8) CHLOROMETHANE	4.258	50	42785	9.59	PPb		99
9) VINYL CHLORIDE	4.531	62	39776	10.12	PPb		99
10) BROMOMETHANE	5.249	94	27184	9.90	PPb		100
11) CHLOROETHANE	5.454	64	23764	10.11	PPb		99
12) TRICHLOROFLUOROMETHANE	5.999	101	34493	9.57	PPb		98
13) ETHYL ETHER	6.471	45	20127	10.82	PPb		97
14) ACROLEIN	6.670	56	74586	97.48	PPb		98
15) 1,1-DICHLOROETHYLENE	6.927	96	23589	10.16	PPb		98
16) FREON 113	6.927	151	15164	9.65	PPb		96
17) ACETONE	6.938	58	11301	45.52	PPb		96
18) IODOMETHANE	7.210	142	43624	10.08	PPb		99
19) CARBON DISULFIDE	7.388	76	85153	9.93	PPb		98
20) METHYL ACETATE	7.514	74	6007	9.97	PPb	#	99
21) ALLYL CHLORIDE	7.509	76	16653	9.97	PPb		93
22) METHYLENE CHLORIDE	7.703	84	32525	9.71	PPb		98
23) ACRYLONITRILE	8.023	53	75230	54.06	PPb		99
24) METHYL TERT BUTYL ETHER	8.143	73	194234	20.34	PPb		99
25) trans-1,2-DICHLOROETHY...	8.180	61	40472	10.39	PPb		98
26) HEXANE	8.594	57	24386	8.14	PPb		99
27) 1,1-DICHLOROETHANE	8.783	63	53518	10.55	PPb		99
28) DI-ISOPROPYL ETHER	8.846	45	96692	9.64	PPb		99
29) ETHYL TERT-BUTYL ETHER	9.360	59	97204	10.35	PPb		98
30) 2-BUTANONE	9.549	72	15550	43.12	PPb		97
31) 2,2-DICHLOROPROPANE	9.617	77	39291	9.78	PPb		99
32) cis-1,2-DICHLOROETHYLENE	9.606	96	33502	10.21	PPb		99
33) PROPIONITRILE	9.590	54	61312	112.77	PPb		98
34) METHYLACRYLATE	9.711	55	29767	10.73	PPb		100
35) METHACRYLONITRILE	9.832	41	20496	10.42	PPb		96
36) BROMOCHLOROMETHANE	9.931	128	16716	10.51	PPb		94
37) CHLOROFORM	10.005	83	51723	10.45	PPb		99
38) TETRAHYDROFURAN	10.015	42	13639	10.11	PPb		86
39) 1,1,1-TRICHLOROETHANE	10.319	97	39850	10.53	PPb		93
40) CYCLOHEXANE	10.435	84	35438	10.17	PPb	#	100
41) 1-CHLOROBUTANE	10.414	56	99768	10.90	PPb		91
42) 1,1-DICHLOROPROPENE	10.519	75	37617	10.85	PPb		99
43) CARBON TETRACHLORIDE	10.560	117	32907	10.88	PPb		99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62300.D
Acq On : 10 Nov 2011 2:30 pm
Operator : mohui
Sample : icv2865-10
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 11 09:48:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.7.8

6

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.754	62	41348	10.58	PPb	98
45) BENZENE	10.781	78	118617	10.23	PPb	99
46) TERT AMYL METHYL ETHER	10.854	73	104256	11.23	PPB	99
47) TRICHLOROETHYLENE	11.562	95	30407	10.69	PPb	97
48) METHYLCYCLOHEXANE	11.835	83	40817	9.83	PPb	99
49) METHYL METHACRYLATE	11.840	69	35766	10.90	PPb	90
50) 1,2-DICHLOROPROPANE	11.803	63	33437	10.75	PPb	99
51) DIBROMOMETHANE	11.966	93	22087	11.03	PPb	97
52) BROMODICHLOROMETHANE	12.107	83	40847	10.78	PPb	97
53) CHLOROACETONITRILE	12.259	75	10993	55.30	PPb	98
54) 2-NITROPROPANE	12.291	41	8909	9.83	PPb	94
55) 2-CHLOROETHYL VINYL ETHER	12.375	63	132909	57.83	PPb	98
56) cis-1,3-DICHLOROPROPENE	12.616	75	53017	10.57	PPb	98
57) 4-METHYL-2-PENTANONE	12.705	58	57182	41.25	PPb	98
58) 1,1-DICHLOROPROPANONE	12.804	43	17596	10.29	PPb	98
59) TOLUENE	13.035	92	75040	10.61	PPb	97
60) trans-1,3-DICHLOROPROPENE	13.213	75	50738	10.97	PPb	99
61) ETHYL METHACRYLATE	13.240	69	49901	11.60	PPb	98
62) 1,1,2-TRICHLOROETHANE	13.434	83	26652	10.78	PPb	98
63) 1,3-DICHLOROPROPANE	13.633	76	54355	10.59	PPb	98
64) 2-HEXANONE	13.633	58	54010	40.83	PPb	99
65) TETRACHLOROETHYLENE	13.696	166	32887	10.67	PPb	97
66) DIBROMOCHLOROMETHANE	13.932	129	33041	10.91	PPb	98
67) 1,2-DIBROMOETHANE	14.089	107	32414	10.86	PPb	97
68) CHLOROBENZENE	14.624	112	87151	10.84	PPb	97
69) 1,1,1,2-TETRACHLOROETHANE	14.681	131	31656	10.77	PPb	99
70) ETHYLBENZENE	14.697	91	146238	10.64	PPb	99
71) m,p-XYLENE	14.813	106	115525	21.54	PPb	99
72) o-XYLENE	15.263	106	59147	10.93	PPb	98
73) STYRENE	15.263	104	98519	11.15	PPb	98
74) BROMOFORM	15.526	173	23626	11.40	PPb	99
75) ISOPROPYLBENZENE	15.636	105	149076	10.82	PPb	99
76) BROMOBENZENE	16.055	156	38336	10.88	PPb	94
77) 1,1,2,2-TETRACHLOROETHANE	15.914	83	47051	10.49	PPb	98
78) TRANS-1,4-DICHLORO-2-B...	15.961	53	10932	11.77	PPb	97
79) 1,2,3-TRICHLOROPROPANE	15.992	110	14350	10.82	PPb	94
80) n-PROPYLBENZENE	16.076	91	182262	11.07	PPb	99
81) O-CHLOROTOLUENE	16.233	126	36235	10.80	PPb	97
82) 1,3,5-TRIMETHYLBENZENE	16.239	105	129563	10.78	PPb	98
83) P-CHLOROTOLUENE	16.333	91	115298	10.78	PPb	100
84) tert-BUTYLBENZENE	16.616	119	108579	10.89	PPb	98
85) 1,2,4-TRIMETHYLBENZENE	16.663	105	136258	11.07	PPb	98
86) PENTACHLOROETHANE	16.690	167	21904	11.35	PPb	96
87) sec-BUTYLBENZENE	16.847	105	164237	10.72	PPb	100
88) p-ISOPROPYLTOLUENE	16.973	119	142898	11.27	PPb	99
89) M-DICHLOROBENZENE	17.041	146	75959	10.89	PPb	99
90) P-DICHLOROBENZENE	17.125	146	78413	10.95	PPb	100
91) n-BUTYLBENZENE	17.413	92	75185	11.08	PPb	99
92) O-DICHLOROBENZENE	17.539	146	76465	10.77	PPb	99
93) HEXACHLOROETHANE	17.854	201	20824	11.24	PPb	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62300.D
Acq On : 10 Nov 2011 2:30 pm
Operator : mohui
Sample : icv2865-10
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 11 09:48:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94)	1,2-DIBROMO-3-CHLOROPR...	18.331	155	8492	11.34	PPb	93
95)	NITROBENZENE	18.540	77	21948	122.36	PPb	99
96)	1,2,4-TRICHLOROBENZENE	19.227	180	56797	11.70	PPb	97
97)	HEXACHLOROBUTADIENE	19.369	225	24543	10.25	PPb	98
98)	NAPHTHALENE	19.510	128	140342	11.82	PPb	99
99)	1,2,3-TRICHLOROBENZENE	19.772	180	52345	11.33	PPb	98

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

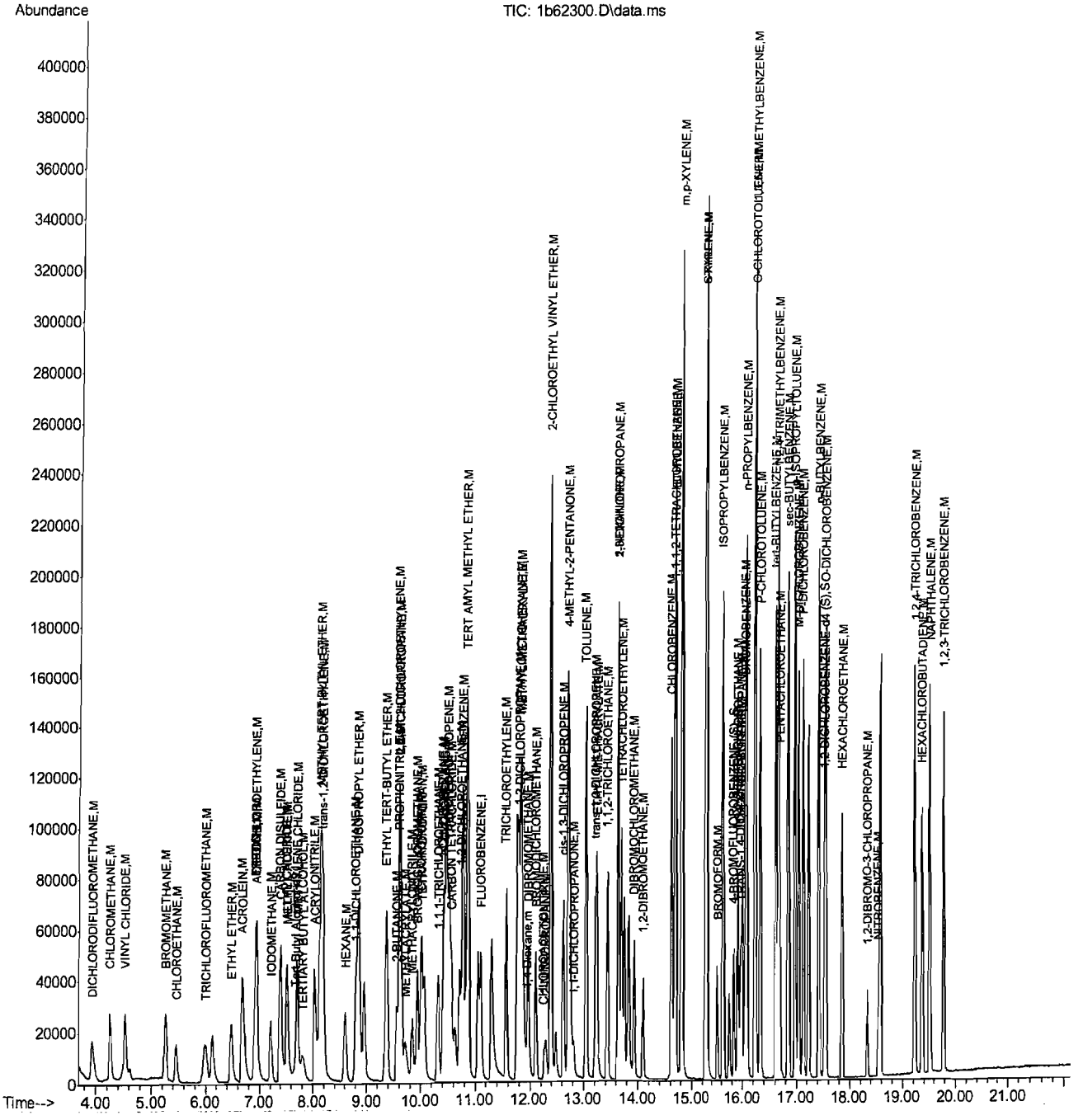
6.7.8

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1b62300.D
Acq On : 10 Nov 2011 2:30 pm
Operator : mohui
Sample : icv2865-10
Misc : MS20769,V1B2865,W,,,,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 11 09:48:21 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.7.8



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64065.D
Acq On : 28 Dec 2011 10:43 pm
Operator : mohui
Sample : cc2865-10
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 29 06:44:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.7.9

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.650	65	15980	50.00	PPB		-0.03
4) FLUOROBENZENE	11.085	96	62122	5.00	PPb		-0.01
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.835	95	21628	4.77	PPb		0.00
Spiked Amount 5.000	Range 77 - 115		Recovery = 95.40%				
6) 1,2-DICHLOROBENZENE-d4...	17.507	152	22533	4.75	PPb		-0.01
Spiked Amount 5.000	Range 78 - 114		Recovery = 95.00%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.787	59	21999	46.28	PPb		69
3) 1,4-Dioxane	11.923	88	9406	265.43	PPB		93
7) DICHLORODIFLUOROMETHANE	3.917	85	34917	11.20	PPb		99
8) CHLOROMETHANE	4.242	50	53152	11.03	PPb		100
9) VINYL CHLORIDE	4.515	62	52259	12.32	PPb		98
10) BROMOMETHANE	5.228	94	33414	11.27	PPb		99
11) CHLOROETHANE	5.433	64	30788	12.13	PPb		97
12) TRICHLOROFLUOROMETHANE	5.973	101	44133	11.34	PPb		93
13) ETHYL ETHER	6.455	45	21046	10.48	PPb		97
14) ACROLEIN	6.659	56	51231	62.03	PPb		97
15) 1,1-DICHLOROETHYLENE	6.906	96	29643	11.83	PPb		97
16) FREON 113	6.916	151	19576	11.54	PPb		90
17) ACETONE	6.922	58	12353	46.10	PPb		95
18) IODOMETHANE	7.184	142	50513	10.81	PPb		98
19) CARBON DISULFIDE	7.362	76	129082	13.95	PPb		99
20) METHYL ACETATE	7.493	74	8053	12.38	PPb	#	84
21) ALLYL CHLORIDE	7.493	76	19990	11.09	PPb		91
22) METHYLENE CHLORIDE	7.677	84	39574	10.95	PPb		99
23) ACRYLONITRILE	8.002	53	82763	55.09	PPb		97
24) METHYL TERT BUTYL ETHER	8.122	73	112267	10.89	PPb		98
25) trans-1,2-DICHLOROETHY...	8.159	61	49950	11.88	PPb		97
26) HEXANE	8.568	57	34933	10.81	PPb		97
27) 1,1-DICHLOROETHANE	8.767	63	62457	11.41	PPb		97
28) DI-ISOPROPYL ETHER	8.825	45	109809	10.14	PPb		99
29) ETHYL TERT-BUTYL ETHER	9.339	59	108039	10.65	PPb		96
30) 2-BUTANONE	9.533	72	17344	44.56	PPb		98
31) 2,2-DICHLOROPROPANE	9.601	77	43524	10.04	PPb		97
32) cis-1,2-DICHLOROETHYLENE	9.585	96	40327	11.38	PPb		98
33) PROPIONITRILE	9.569	54	66115	112.66	PPb		96
34) METHYLACRYLATE	9.706	55	32109	10.73	PPb		100
35) METHACRYLONITRILE	9.821	41	21363	10.06	PPb		93
36) BROMOCHLOROMETHANE	9.915	128	19112	11.14	PPb		97
37) CHLOROFORM	9.984	83	59455	11.13	PPb		98
38) TETRAHYDROFURAN	10.005	42	14325	9.84	PPb		94
39) 1,1,1-TRICHLOROETHANE	10.298	97	47127	11.53	PPb		98
40) CYCLOHEXANE	10.419	84	46173	12.27	PPb	#	100
41) 1-CHLOROBUTANE	10.403	56	119472	12.09	PPb		97
42) 1,1-DICHLOROPROPENE	10.503	75	45842	12.25	PPb		99
43) CARBON TETRACHLORIDE	10.545	117	39022	11.95	PPb		98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64065.D
Acq On : 28 Dec 2011 10:43 pm
Operator : mohui
Sample : cc2865-10
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 29 06:44:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.7.9

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.739	62	47394	11.23 PPb	99
45) BENZENE	10.765	78	146496	11.70 PPb	99
46) TERT AMYL METHYL ETHER	10.838	73	105822	10.56 PPB	97
47) TRICHLOROETHYLENE	11.546	95	35206	11.47 PPb	96
48) METHYLCYCLOHEXANE	11.819	83	51104	11.41 PPb	99
49) METHYL METHACRYLATE	11.829	69	37682	10.64 PPb	94
50) 1,2-DICHLOROPROPANE	11.787	63	39104	11.65 PPb	95
51) DIBROMOMETHANE	11.950	93	24411	11.29 PPb	98
52) BROMODICHLOROMETHANE	12.097	83	45145	11.03 PPb	96
53) CHLOROACETONITRILE	12.243	75	13598	63.37 PPb	99
54) 2-NITROPROPANE	12.280	41	8766	8.96 PPb	91
55) 2-CHLOROETHYL VINYL ETHER	12.364	63	125404	50.55 PPb	100
56) cis-1,3-DICHLOROPROPENE	12.600	75	60217	11.12 PPb	100
57) 4-METHYL-2-PENTANONE	12.689	58	62924	42.05 PPb	99
58) 1,1-DICHLOROPROPANONE	12.789	43	21252	11.51 PPb	97
59) TOLUENE	13.019	92	88339	11.57 PPb	98
60) trans-1,3-DICHLOROPROPENE	13.198	75	55126	11.04 PPb	98
61) ETHYL METHACRYLATE	13.229	69	47869	10.31 PPb	94
62) 1,1,2-TRICHLOROETHANE	13.423	83	30533	11.44 PPb	98
63) 1,3-DICHLOROPROPANE	13.622	76	63112	11.39 PPb	97
64) 2-HEXANONE	13.617	58	60517	42.38 PPb	98
65) TETRACHLOROETHYLENE	13.680	166	34537	10.38 PPb	98
66) DIBROMOCHLOROMETHANE	13.916	129	35146	10.75 PPb	100
67) 1,2-DIBROMOETHANE	14.078	107	35172	10.91 PPb	98
68) CHLOROBENZENE	14.613	112	96645	11.14 PPb	99
69) 1,1,1,2-TETRACHLOROETHANE	14.671	131	34245	10.79 PPb	98
70) ETHYLBENZENE	14.687	91	165224	11.14 PPb	99
71) m,p-XYLENE	14.802	106	130419	22.53 PPb	98
72) o-XYLENE	15.253	106	65704	11.25 PPb	94
73) STYRENE	15.258	104	101993	10.70 PPb	97
74) BROMOFORM	15.515	173	23629	10.56 PPb	98
75) ISOPROPYLBENZENE	15.625	105	165145	11.10 PPb	99
76) BROMOBENZENE	16.045	156	40636	10.69 PPb	97
77) 1,1,2,2-TETRACHLOROETHANE	15.903	83	54677	11.30 PPb	100
78) TRANS-1,4-DICHLORO-2-B...	15.950	53	11012	10.98 PPb	97
79) 1,2,3-TRICHLOROPROPANE	15.982	110	15007	10.49 PPb	94
80) n-PROPYLBENZENE	16.071	91	202670	11.40 PPb	99
81) O-CHLOROTOLUENE	16.223	126	40048	11.06 PPb	98
82) 1,3,5-TRIMETHYLBENZENE	16.233	105	141777	10.93 PPb	97
83) P-CHLOROTOLUENE	16.322	91	126976	11.00 PPb	99
84) tert-BUTYLBENZENE	16.606	119	117739	10.94 PPb	99
85) 1,2,4-TRIMETHYLBENZENE	16.653	105	144173	10.85 PPb	99
86) PENTACHLOROETHANE	16.679	167	24378	11.70 PPb	97
87) sec-BUTYLBENZENE	16.836	105	184054	11.13 PPb	100
88) p-ISOPROPYLTOLUENE	16.967	119	147637	10.78 PPb	99
89) M-DICHLOROBENZENE	17.030	146	80032	10.63 PPb	99
90) P-DICHLOROBENZENE	17.119	146	81831	10.59 PPb	97
91) n-BUTYLBENZENE	17.408	92	80325	10.97 PPb	99
92) O-DICHLOROBENZENE	17.534	146	80337	10.48 PPb	98
93) HEXACHLOROETHANE	17.848	201	20438	10.22 PPb	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64065.D
Acq On : 28 Dec 2011 10:43 pm
Operator : mohui
Sample : cc2865-10
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 29 06:44:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.320	155	7085	8.77	PPb	93
95) NITROBENZENE	18.530	77	35575	183.74	PPb	97
96) 1,2,4-TRICHLOROBENZENE	19.222	180	53057	10.12	PPb	97
97) HEXACHLOROBUTADIENE	19.363	225	24656	9.54	PPb	97
98) NAPHTHALENE	19.505	128	121000	9.44	PPb	100
99) 1,2,3-TRICHLOROBENZENE	19.767	180	48679	9.76	PPb	98

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

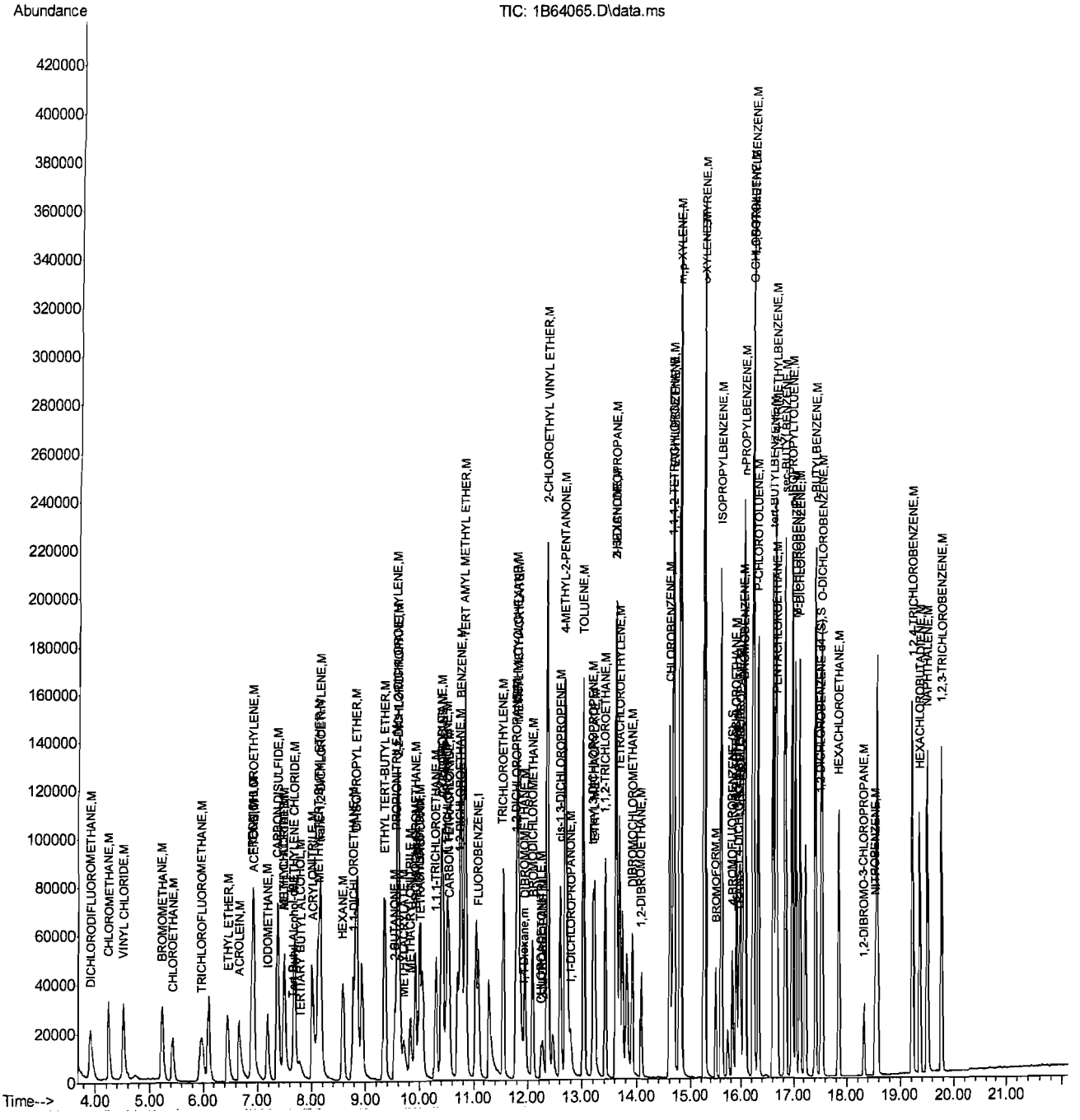
6.7.9 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64065.D
Acq On : 28 Dec 2011 10:43 pm
Operator : mohui
Sample : cc2865-10
Misc : MS23612,V1B2946,W,,,,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Dec 29 06:44:58 2011
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.7.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64226.D
Acq On : 3 Jan 2012 9:26 am
Operator : mohui
Sample : cc2865-5
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 12:36:14 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Tert Butyl Alcohol-d9	7.651	65	13955	50.00	PPB		-0.03
4) FLUOROBENZENE	11.080	96	63776	5.00	PPb		-0.02
System Monitoring Compounds							
5) 4-BROMOFLUOROBENZENE (S)	15.830	95	22846	4.90	PPb		-0.01
Spiked Amount 5.000	Range 77 - 115		Recovery = 98.00%				
6) 1,2-DICHLOROBENZENE-d4...	17.507	152	24149	4.96	PPb		-0.01
Spiked Amount 5.000	Range 78 - 114		Recovery = 99.20%				
Target Compounds							Qvalue
2) TERTIARY BUTYL ALCOHOL	7.776	59	8585	20.68	PPb		95
3) 1,4-Dioxane	11.918	88	4114	132.94	PPB		95
7) DICHLORODIFLUOROMETHANE	3.902	85	19827	6.20	PPb		94
8) CHLOROMETHANE	4.232	50	27468	5.55	PPb		98
9) VINYL CHLORIDE	4.510	62	24852	5.71	PPb		96
10) BROMOMETHANE	5.218	94	17798	5.85	PPb		99
11) CHLOROETHANE	5.428	64	14788	5.68	PPb		95
12) TRICHLOROFLUOROMETHANE	5.968	101	21082	5.28	PPb		95
13) ETHYL ETHER	6.450	45	9795	4.75	PPb		97
14) ACROLEIN	6.654	56	41270	48.68	PPb		94
15) 1,1-DICHLOROETHYLENE	6.901	96	13145	5.11	PPb		94
16) FREON 113	6.901	151	8892	5.11	PPb		97
17) ACETONE	6.917	58	5965	21.69	PPb		68
18) IODOMETHANE	7.179	142	24137	5.03	PPb		93
19) CARBON DISULFIDE	7.357	76	48357	5.09	PPb		100
20) METHYL ACETATE	7.530	74	3469	5.19	PPb	#	1
21) ALLYL CHLORIDE	7.483	76	9750	5.27	PPb		88
22) METHYLENE CHLORIDE	7.677	84	19146	5.16	PPb		94
23) ACRYLONITRILE	8.012	53	40828	26.47	PPb		95
24) METHYL TERT BUTYL ETHER	8.117	73	55604	5.25	PPb		99
25) trans-1,2-DICHLOROETHY...	8.154	61	21794	5.05	PPb		96
26) HEXANE	8.568	57	14864	4.48	PPb		97
27) 1,1-DICHLOROETHANE	8.757	63	28751	5.12	PPb		96
28) DI-ISOPROPYL ETHER	8.820	45	49527	4.46	PPb		96
29) ETHYL TERT-BUTYL ETHER	9.339	59	51715	4.97	PPb		99
30) 2-BUTANONE	9.543	72	8755	21.91	PPb		99
31) 2,2-DICHLOROPROPANE	9.590	77	21741	4.88	PPb		99
32) cis-1,2-DICHLOROETHYLENE	9.580	96	19351	5.32	PPb		88
33) PROPIONITRILE	9.580	54	32018	53.14	PPb		96
34) METHYLACRYLATE	9.722	55	13987	4.55	PPb		100
35) METHACRYLONITRILE	9.821	41	10126	4.65	PPb		87
36) BROMOCHLOROMETHANE	9.910	128	9558	5.43	PPb		92
37) CHLOROFORM	9.978	83	27714	5.05	PPb		96
38) TETRAHYDROFURAN	10.005	42	7498	5.02	PPb		93
39) 1,1,1-TRICHLOROETHANE	10.293	97	21027	5.01	PPb		97
40) CYCLOHEXANE	10.419	84	20434	5.29	PPb	#	100
41) 1-CHLOROBUTANE	10.398	56	50357	4.97	PPb		94
42) 1,1-DICHLOROPROPENE	10.503	75	19727	5.13	PPb		96
43) CARBON TETRACHLORIDE	10.534	117	16788	5.01	PPb		98

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64226.D
Acq On : 3 Jan 2012 9:26 am
Operator : mohui
Sample : cc2865-5
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 12:36:14 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
44) 1,2-DICHLOROETHANE	10.733	62	21898	5.06 PPb	99
45) BENZENE	10.760	78	69410	5.40 PPb	98
46) TERT AMYL METHYL ETHER	10.833	73	52167	5.07 PPB	99
47) TRICHLOROETHYLENE	11.546	95	16392	5.20 PPb	98
48) METHYLCYCLOHEXANE	11.819	83	21468	4.67 PPb	99
49) METHYL METHACRYLATE	11.829	69	17383	4.78 PPb	79
50) 1,2-DICHLOROPROPANE	11.782	63	18057	5.24 PPb	98
51) DIBROMOMETHANE	11.945	93	11785	5.31 PPb	97
52) BROMODICHLOROMETHANE	12.091	83	21456	5.11 PPb	99
53) CHLOROACETONITRILE	12.254	75	6942	31.51 PPb	94
54) 2-NITROPROPANE	12.270	41	4686	4.67 PPb	94
55) 2-CHLOROETHYL VINYL ETHER	12.359	63	55016	21.60 PPb	99
56) cis-1,3-DICHLOROPROPENE	12.595	75	28955	5.21 PPb	99
57) 4-METHYL-2-PENTANONE	12.689	58	34282	22.32 PPb	93
58) 1,1-DICHLOROPROPANONE	12.789	43	12403	6.54 PPb	91
59) TOLUENE	13.019	92	41643	5.31 PPb	97
60) trans-1,3-DICHLOROPROPENE	13.198	75	27039	5.27 PPb	97
61) ETHYL METHACRYLATE	13.229	69	22916	4.81 PPb	95
62) 1,1,2-TRICHLOROETHANE	13.418	83	15334	5.60 PPb	97
63) 1,3-DICHLOROPROPANE	13.617	76	30416	5.35 PPb	95
64) 2-HEXANONE	13.617	58	32571	22.22 PPb	98
65) TETRACHLOROETHYLENE	13.680	166	16644	4.87 PPb	95
66) DIBROMOCHLOROMETHANE	13.911	129	17315	5.16 PPb	99
67) 1,2-DIBROMOETHANE	14.079	107	17853	5.40 PPb	100
68) CHLOROBENZENE	14.608	112	47159	5.29 PPb	99
69) 1,1,1,2-TETRACHLOROETHANE	14.666	131	16982	5.21 PPb	99
70) ETHYLBENZENE	14.681	91	79232	5.20 PPb	100
71) m,p-XYLENE	14.802	106	63401	10.67 PPb	99
72) o-XYLENE	15.248	106	32000	5.34 PPb	97
73) STYRENE	15.253	104	47869	4.89 PPb	98
74) BROMOFORM	15.515	173	12162	5.30 PPb	99
75) ISOPROPYLBENZENE	15.625	105	78815	5.16 PPb	99
76) BROMOBENZENE	16.045	156	20651	5.29 PPb	91
77) 1,1,2,2-TETRACHLOROETHANE	15.898	83	27813	5.60 PPb	98
78) TRANS-1,4-DICHLORO-2-B...	15.945	53	5922	5.75 PPb	94
79) 1,2,3-TRICHLOROPROPANE	15.982	110	7834	5.33 PPb	96
80) n-PROPYLBENZENE	16.066	91	96449	5.29 PPb	99
81) O-CHLOROTOLUENE	16.218	126	19622	5.28 PPb	94
82) 1,3,5-TRIMETHYLBENZENE	16.228	105	68451	5.14 PPb	94
83) P-CHLOROTOLUENE	16.323	91	62828	5.30 PPb	97
84) tert-BUTYLBENZENE	16.600	119	57120	5.17 PPb	99
85) 1,2,4-TRIMETHYLBENZENE	16.648	105	71321	5.23 PPb	97
86) PENTACHLOROETHANE	16.674	167	12239	5.72 PPb	96
87) sec-BUTYLBENZENE	16.836	105	85734	5.05 PPb	98
88) p-ISOPROPYLTOLUENE	16.962	119	70600	5.02 PPb	99
89) M-DICHLOROBENZENE	17.030	146	40693	5.26 PPb	99
90) P-DICHLOROBENZENE	17.114	146	42308	5.33 PPb	99
91) n-BUTYLBENZENE	17.403	92	36823	4.90 PPb	99
92) O-DICHLOROBENZENE	17.528	146	41420	5.26 PPb	98
93) HEXACHLOROETHANE	17.843	201	10165	4.95 PPb	92

6.7.10 6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64226.D
Acq On : 3 Jan 2012 9:26 am
Operator : mohui
Sample : cc2865-5
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 12:36:14 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.7.10 6

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) 1,2-DIBROMO-3-CHLOROPR...	18.320	155	3862	4.65	PPb	95
95) NITROBENZENE	18.530	77	11755	59.14	PPb	98
96) 1,2,4-TRICHLOROBENZENE	19.217	180	28028	5.21	PPb	97
97) HEXACHLOROBUTADIENE	19.358	225	11626	4.38	PPb	98
98) NAPHTHALENE	19.500	128	62686	4.76	PPb	99
99) 1,2,3-TRICHLOROBENZENE	19.762	180	25729	5.03	PPb	98

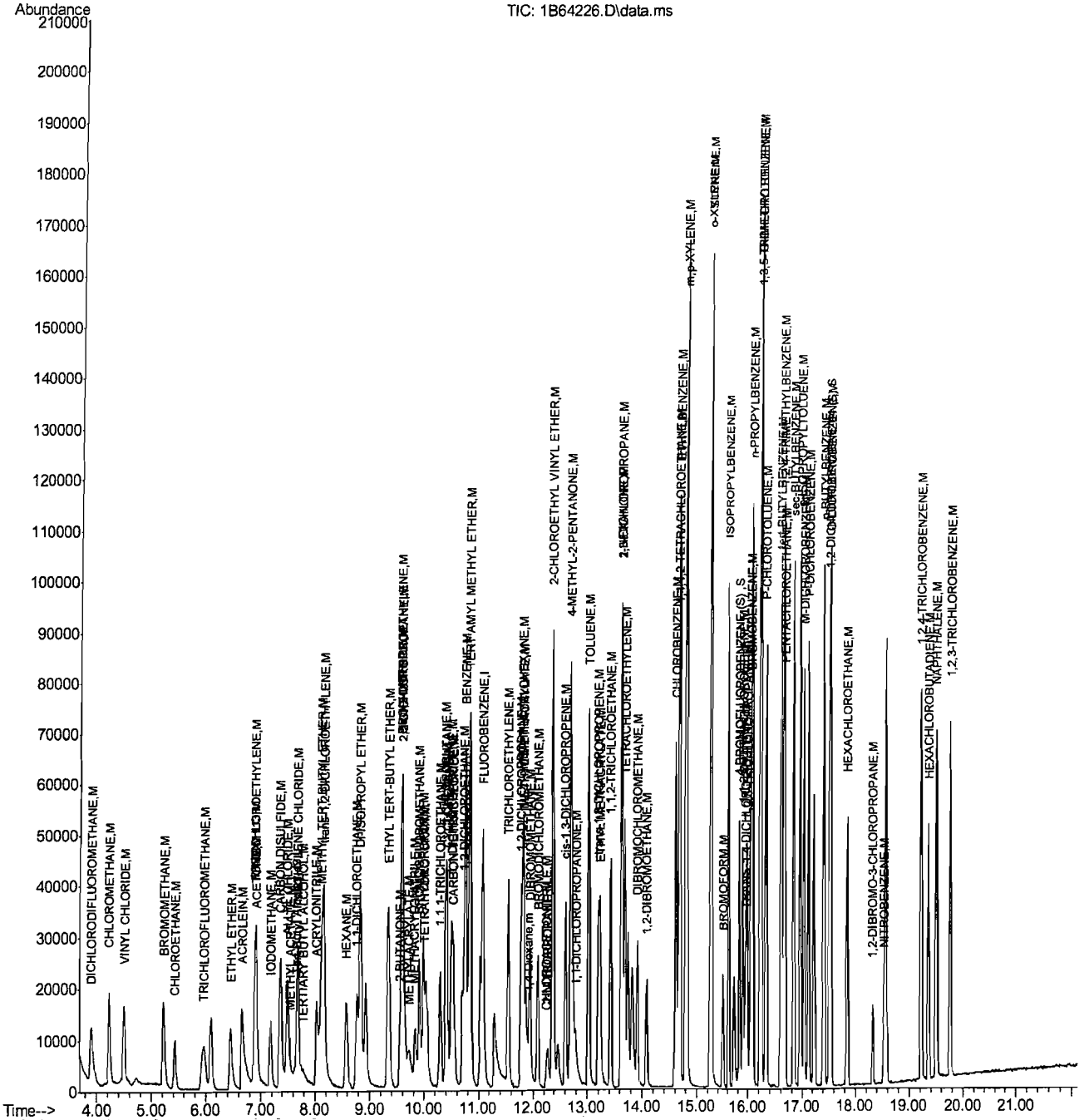
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\
Data File : 1B64226.D
Acq On : 3 Jan 2012 9:26 am
Operator : mohui
Sample : cc2865-5
Misc : MS23612,V1B2953,W,,,,1
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 03 12:36:14 2012
Quant Method : C:\MSDCHEM\1\METHODS\M1B2865.M
Quant Title : method 524, zb624 60mx0.25mmx1.4um
QLast Update : Fri Nov 11 09:33:18 2011
Response via : Initial Calibration

6.7.10



ACCUTEST.

VOLATILE ANALYSIS LOG

Batch ID: V1B2865

Print Analyst Name: Mohd Imran S

Analyst Signature:

Date: 11/10/11

Columns: 28-624

Method V524.2

Initial Cal. Method M1B2865

Standard Data

Lot #	Description	Conc.
VHH131-140	Surr A	100-1000
VHH93-08	Surr C	100
-03	Surr B	100-1000
-13	Surr Mixture	1000
VHH131-145	Surr DE	200/1000/1900

Standard Data

Lot #	Description	Conc.
VHH97-13	MSTD	100-1000
VHH131-131	MSTD	100-5000
VHH93-22	LSTD	100
VHH131-146	D	400/1900
b -141	IS	300

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: 11/11

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
	1B62291	BFB				1	5ml						OK	9:41 hrs	
	62292	IL2865-0.5				2					-	/	OK	500 µL IS for prep	
	62293	IL2865-1				3					-	/	OK		
	62294	IL2865-2				4					-	/	OK		
	62295	IL2865-5				5					/	/	OK		
	62296	IL2865-10				6					-	/	OK		
	62297	IL2865-20				7					-	/	OK		
	62298	IC2865-40				8					-	/	OK		
	62299	IB1				9									
	62300	IL2865-10				10					-	/	OK	10ml for L.A.R.C.OH. Analyte → 100ml 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

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ACCUTEST.

Notes

M1B2865

	A Std	B	C	D	K	Acrolein	FV
	µl	µl	µl	µl	µl	µl	ml
0.5 ppb	1	1	1	1	1	1	200
1 ppb	2	2	2	2	2	2	200
2.5 ppb	2	2	2	2	2	2	100
5 ppb	5	5	5	5	5	5	100
10 ppb	5	5	5	5	5	5	50
20 ppb	10	10	10	10	10	10	50
40 ppb	20	20	20	20	20	20	50

6.8.1

Form: QC009-01
Rev Date: 7/19/01

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ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: VIB2946

Print Analyst Name: Mohui Imad
Analyst Signature: ✓

Date: 12/28/11

Columns: 60m x 0.25mm x1.4um / 2R-624

Method: V524.2

Initial Cal. Method: M1B2865

Standard Data

Lot #	Description	Conc.
W11197-88	Tur A	100-1000
-93	Tur V	100
-84	Tur B	100-5000
-85	Tur Hurale...	1000
-94	Tur OW	300/1400/1900

Standard Data

Lot #	Description	Conc.
W11197.66	ASTD	1000-1000
-69	BSTD	100-5000
-46	C STD	100
-95	D	4000/1000
-93	K	300
-64	Butane 2nd...	1000 / 25/1450

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: MS Date: 1/29

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
	1B64064	BFB				24	5ml						ok	10:11 pm	
	64065	U2865-10				25	|				-	-	ok	10ul AB Coil Alc → 100ml DI	
	64066	MB1				26				-	-	-	ok		
	64067	BS				27							ok	5ul Tur LAB ok Alc + 2ul Tur C → 100ml DI	894
	64068	JA95851-1D	23613 STD	W	1	28			1.4		-	-	ok		✓
	64069	JA95159-1	30VW STD oxys	W	1	29			|		-	-	ok		✓
	64070	JA95159-2	|	W	1	30					-	-	ok		✓
	64071	JA95159-3		W	1	31						-	ok		✓
	64072	JA95159-4		W	1	32					-	-	ok		✓
	64073	JA95159-5	↓	W	1	33					-	-	ok		✓
	64074	JA95654-1	2361 Fhuh	W	1	34					-	-	ok		✓
	64075	JA95654-2	|	W	1	35					-	-	ok		✓
	64076	JA95654-3	↓	W	1	36					-	-	ok		✓
	64077	JA95692-1	STD oxys	W	1	37				-	-	-	ok		✓
	64078	JA95756-1	STD	W	1	38					-	-	ok		✓
	64079	JA95756-1MS	|		2	39					-	-	ok	2.5ul ABDK Alc + 1ul C → 5ml Sample	✓
	64080	JA95756-1MSD	↓		3	40	↓		↓		-	-	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

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6.8.2

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ACCUTEST

VOLATILE ANALYSIS LOG

Batch ID: V1B2946

Print Analyst Name: [illegible]

Analyst Signature: ✓

Date: 12/28/11

Standard Data		
Lot #	Description	Conc.
		50

Standard Data		
Lot #	Description	Conc.
pg. 193		

Columns: 2B 6m

Method V524.2

Initial Cal. Method M1B2865

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: [illegible] Date: 12/29

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
	1B64081	JA95756-2	8260 STD	DW	1	41	5ml		1		✓	✓	ok		✓
	64082	JA95756-3	|	|	1	42	|		|		✓	✓	ok		✓
	64083	JA95756-4	|	DW	1	43	|		|		✓	✓	ok		✓
	64084	~~JA95756-5~~ BS	[illegible]	DW	1	44	↓		|		✓	✓	ok	5ml [illegible] + 2ul [illegible] 100 [illegible]	
	64085	JA95788-1	8260 [illegible]	DW	2	45	10/50		5x		✓	✓	ok		✓

[illegible] 12/29

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.

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Form: OR001-9

Rev. Date: 2/14/2007

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