TRIMATRIX LABORATORIES

SECTION - F

GC/MS VOLATILE ORGANICS

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Individual sample results relate only to the sample tested.

STATEMENT OF DATA QUALIFICATIONS

Volatile Organic Compounds by EPA Method 8260B

Qualification: The analyte concentration in the associated MB was greater than the MDL but less than the RL. The positive sample result, which was less than 5 times the MB value, is considered estimated.

Analysis: USEPA-8260B

Sample/Analyte:		
1205072-01	106092	Methyl Acetate
1205073-01	106093	Methyl Acetate
1205085-01	106036	Methyl Acetate
1205085-02	106037	Methyl Acetate

TriMatrix Laboratories, Inc.

TechLaw

Project: KNM

SDG: KNM050112

USEPA-8260B

SAMPLE ID SUMMARY

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM050112

Client: TechLaw

Project: KNM

Client Sample Id:	Lab Sample Id:
106092	1205072-01
106093	1205073-01
106036	1205085-01
106037	1205085-02

SURROGATE STANDARD RECOVERY AND RT SUMMARY

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Matrix: Water
Calibration: 2D27003
Sequence: 2E11012
Instrument: 328

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
Calibration Check (2E11012-CCV1)		**Lab File ID: CCV0510.D**		**Analyzed: 05/10/12 08:37**			
Dibromofluoromethane	4.65	4.67	-0.02	+/-0.5	97	75 - 125	
1,2-Dichloroethane-d4	5.24	5.26	-0.02	+/-0.5	100	75 - 125	
Toluene-d8	8.34	8.35	-0.01	+/-0.5	100	75 - 125	
4-Bromofluorobenzene	11.83	11.84	-0.01	+/-0.5	99	75 - 125	
LCS (1205988-BS1)		**Lab File ID: BS0510.D**		**Analyzed: 05/10/12 09:05**			
Dibromofluoromethane	4.65	4.67	-0.02	+/-0.5	95	85 - 118	
1,2-Dichloroethane-d4	5.24	5.26	-0.02	+/-0.5	99	87 - 122	
Toluene-d8	8.34	8.35	-0.01	+/-0.5	99	85 - 113	
4-Bromofluorobenzene	11.83	11.84	-0.01	+/-0.5	97	82 - 110	
Blank (1205988-BLK1)		**Lab File ID: BLK0510.D**		**Analyzed: 05/10/12 09:32**			
Dibromofluoromethane	4.65	4.67	-0.02	+/-0.5	94	85 - 118	
1,2-Dichloroethane-d4	5.24	5.26	-0.02	+/-0.5	99	87 - 122	
Toluene-d8	8.34	8.35	-0.01	+/-0.5	93	85 - 113	
4-Bromofluorobenzene	11.83	11.84	-0.01	+/-0.5	92	82 - 110	
106092 (1205072-01)		**Lab File ID: 1205072-01.D**		**Analyzed: 05/10/12 14:37**			
Dibromofluoromethane	4.65	4.67	-0.02	+/-0.5	94	85 - 118	
1,2-Dichloroethane-d4	5.25	5.26	-0.01	+/-0.5	102	87 - 122	
Toluene-d8	8.34	8.35	-0.01	+/-0.5	104	85 - 113	
4-Bromofluorobenzene	11.83	11.84	-0.01	+/-0.5	101	82 - 110	
106093 (1205073-01)		**Lab File ID: 1205073-01.D**		**Analyzed: 05/10/12 15:05**			
Dibromofluoromethane	4.65	4.67	-0.02	+/-0.5	93	85 - 118	
1,2-Dichloroethane-d4	5.24	5.26	-0.02	+/-0.5	98	87 - 122	
Toluene-d8	8.34	8.35	-0.01	+/-0.5	93	85 - 113	
4-Bromofluorobenzene	11.83	11.84	-0.01	+/-0.5	92	82 - 110	
106036 (1205085-01)		**Lab File ID: 1205085-01.D**		**Analyzed: 05/10/12 15:32**			
Dibromofluoromethane	4.65	4.67	-0.02	+/-0.5	96	85 - 118	
1,2-Dichloroethane-d4	5.25	5.26	-0.01	+/-0.5	100	87 - 122	
Toluene-d8	8.34	8.35	-0.01	+/-0.5	94	85 - 113	
4-Bromofluorobenzene	11.83	11.84	-0.01	+/-0.5	90	82 - 110	
106037 (1205085-02)		**Lab File ID: 1205085-02.D**		**Analyzed: 05/10/12 16:00**			
Dibromofluoromethane	4.65	4.67	-0.02	+/-0.5	97	85 - 118	
1,2-Dichloroethane-d4	5.25	5.26	-0.01	+/-0.5	103	87 - 122	
Toluene-d8	8.34	8.35	-0.01	+/-0.5	94	85 - 113	
4-Bromofluorobenzene	11.83	11.84	-0.01	+/-0.5	90	82 - 110	

SURROGATE STANDARD RECOVERY AND RT SUMMARY

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2E11012

SDG: KNM050112
Project: KNM
Calibration: 2D27003
Instrument: 328

Lab Sample Id Surrogate Compound Name	RT	Calibration Mean RT	RT Diff	RT Diff Limit	% Recovery	Recovery Limits	Q
Matrix Spike (1205988-MS1)		**Lab File ID: 08502MS.D**		**Analyzed: 05/10/12 19:14**			
Dibromofluoromethane	**4.65**	**4.67**	**-0.02**	**+/-0.5**	**98**	**85 - 118**	
1,2-Dichloroethane-d4	**5.25**	**5.26**	**-0.01**	**+/-0.5**	**103**	**87 - 122**	
Toluene-d8	**8.34**	**8.35**	**-0.01**	**+/-0.5**	**98**	**85 - 113**	
4-Bromofluorobenzene	**11.83**	**11.84**	**-0.01**	**+/-0.5**	**101**	**82 - 110**	
Matrix Spike Dup (1205988-MSD1)		**Lab File ID: 08502MSD.D**		**Analyzed: 05/10/12 19:42**			
Dibromofluoromethane	**4.65**	**4.67**	**-0.02**	**+/-0.5**	**96**	**85 - 118**	
1,2-Dichloroethane-d4	**5.25**	**5.26**	**-0.01**	**+/-0.5**	**99**	**87 - 122**	
Toluene-d8	**8.34**	**8.35**	**-0.01**	**+/-0.5**	**96**	**85 - 113**	
4-Bromofluorobenzene	**11.83**	**11.84**	**-0.01**	**+/-0.5**	**99**	**82 - 110**	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

106037

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1205988

SDG: KNM050112

Project: KNM

Laboratory ID: 1205988-MS1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	Sample Conc.	MS Conc.	MS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	ND	43.1	108	80 - 129	ug/L
Chlorobenzene	40.0	ND	44.9	112	80 - 121	ug/L
1,1-Dichloroethene	40.0	ND	45.9	115	74 - 134	ug/L
Toluene	40.0	ND	42.5	106	79 - 129	ug/L
Trichloroethene	40.0	ND	41.6	104	75 - 127	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

106037

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1205988

SDG: KNM050112

Project: KNM

Laboratory ID: 1205988-MSD1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	MSD Conc.	MSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Benzene	40.0	43.0	108	0.1	9	80 - 129	ug/L
Chlorobenzene	40.0	45.0	113	0.3	8	80 - 121	ug/L
1,1-Dichloroethene	40.0	46.4	116	1	11	74 - 134	ug/L
Toluene	40.0	41.9	105	2	9	79 - 129	ug/L
Trichloroethene	40.0	41.6	104	0.2	10	75 - 127	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

QC Batch: 1205988

SDG: KNM050112

Project: KNM

Laboratory ID: 1205988-BS1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Sequence: 2E11012

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	40.5	101	84 - 119	ug/L
Chlorobenzene	40.0	42.5	106	84 - 118	ug/L
1,1-Dichloroethene	40.0	41.9	105	77 - 123	ug/L
Toluene	40.0	39.8	99	85 - 118	ug/L
Trichloroethene	40.0	38.7	97	82 - 119	ug/L

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205988-BLK1 File ID: BLK0510.D

Prepared: 05/10/12 08:00 Analyzed: 05/10/12 09:32

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	5.0	ug/L	1.1	5.0	U
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	0.26	ug/L	0.23	5.0	J
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	0.29	ug/L	0.24	1.0	J
541-73-1	1,3-Dichlorobenzene	0.26	ug/L	0.24	1.0	J
106-46-7	1,4-Dichlorobenzene	0.33	ug/L	0.25	1.0	J
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	1.2	ug/L	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	1.0	ug/L	0.24	1.0	U
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205988-BLK1 File ID: BLK0510.D

Prepared: 05/10/12 08:00 Analyzed: 05/10/12 09:32

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	ug/L	0.13	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	37.4	94	85 - 118	
1,2-Dichloroethane-d4	40.0	39.5	99	87 - 122	
Toluene-d8	40.0	37.2	93	85 - 113	
4-Bromofluorobenzene	40.0	36.6	92	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	625629	5.86	109	5.879	
Chlorobenzene-d5	499689	10.286	105	10.292	
1,4-Dichlorobenzene-d4	301306	13.286	92	13.292	

QC BATCH SUMMARY

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM050112

Client: TechLaw

Project: KNM

QC Batch: 1205988

QC Batch Matrix: Water

Preparation: 5030B Aqueous Purge & Trap

Sample Name	Lab Sample ID	Date Prepared	Observations
106092	1205072-01	05/10/12 08:00	
106093	1205073-01	05/10/12 08:00	
106036	1205085-01	05/10/12 08:00	
106037	1205085-02	05/10/12 08:00	
Blank	1205988-BLK1	05/10/12 08:00	
LCS	1205988-BS1	05/10/12 08:00	
106037	1205988-MS1	05/10/12 08:00	
106037	1205988-MSD1	05/10/12 08:00	

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Lab Sample ID: 2D27026-TUN1

Injection Date: 04/24/12

Sequence: 2D27026

SDG: KNM050112

Project: KNM

Lab File ID: BFB0424.D

Injection Time: 07:37

Calibration: 2D27003

Instrument ID: 328

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	20.7	PASS
75	30 - 60% of 95	54.7	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.41	PASS
173	Less than 2% of 174	0.843	PASS
174	50 - 100% of 95	91.9	PASS
175	5 - 9% of 174	7.17	PASS
176	95 - 101% of 174	97	PASS
177	5 - 9% of 176	6.82	PASS

INITIAL CALIBRATION STANDARDS
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Sequence: 2D27026

SDG: KNM050112
Project: KNM
Calibration: 2D27003
Instrument: 328

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
2031374	8260 Tune Working Standard 03-29-12	2D27026-TUN1	BFB0424.D	04/24/12 07:37
2041196	1 UG/L B	2D27026-CAL1	1P0424.D	04/24/12 09:54
2041197	5 UG/L B	2D27026-CAL2	5P0424.D	04/24/12 10:21
2041198	10 UG/L B	2D27026-CAL3	10P0424.D	04/24/12 10:49
2041199	20 UG/L B	2D27026-CAL4	20P0424.D	04/24/12 11:16
2041200	40 UG/L B	2D27026-CAL5	40P0424.D	04/24/12 11:44
2041201	100 UG/L B	2D27026-CAL6	100P0424.D	04/24/12 12:12
2041318	200 UG/L B	2D27026-CAL7	200P0424.D	04/24/12 13:07
2041016	40 UG/L A	2D27026-SCV1	SCV0424.D	04/24/12 14:31

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Lab Sample ID: 2E11012-TUN1
Lab File ID: BFB0510.D
Injection Date: 05/10/12
Injection Time: 08:09
Sequence: 2E11012
Instrument ID: 328

m/z	Ion Abundance Criteria	% Relative Abundance	
50	15 - 40% of 95	22	PASS
75	30 - 60% of 95	57.2	PASS
95	Base peak, 100% relative abundance	100	PASS
96	5 - 9% of 95	6.56	PASS
173	Less than 2% of 174	0.922	PASS
174	50 - 100% of 95	94.7	PASS
175	5 - 9% of 174	7.16	PASS
176	95 - 101% of 174	95.3	PASS
177	5 - 9% of 176	6.47	PASS

ANALYSIS BATCH (SEQUENCE) SUMMARY

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Sequence: 2E11012

SDG: KNM050112

Project: KNM

Calibration: 2D27003

Instrument: 328

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2E11012-TUN1	BFB0510.D	05/10/12 08:09
Calibration Check	2E11012-CCV1	CCV0510.D	05/10/12 08:37
LCS	1205988-BS1	BS0510.D	05/10/12 09:05
Blank	1205988-BLK1	BLK0510.D	05/10/12 09:32
106092	1205072-01	1205072-01.D	05/10/12 14:37
106093	1205073-01	1205073-01.D	05/10/12 15:05
106036	1205085-01	1205085-01.D	05/10/12 15:32
106037	1205085-02	1205085-02.D	05/10/12 16:00
106037	1205988-MS1	08502MS.D	05/10/12 19:14
106037	1205988-MSD1	08502MSD.D	05/10/12 19:42

INTERNAL STANDARD AREA AND RT SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Matrix: Water
Sequence: 2E11012

SDG: KNM050112
Project: KNM
Calibration: 2D27003
Instrument: 328

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Calibration Check (2E11012-CCV1)			**Lab File ID: CCV0510.D**			**Analyzed: 05/10/12 08:37**			
Fluorobenzene	575143	5.86	722328	5.879	80	50 - 200	-0.0190	+/-0.50	
Chlorobenzene-d5	478121	10.286	641666	10.292	75	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	325586	13.285	433332	13.292	75	50 - 200	-0.0070	+/-0.50	
LCS (1205988-BS1)			**Lab File ID: BS0510.D**			**Analyzed: 05/10/12 09:05**			
Fluorobenzene	599520	5.86	575143	5.879	104	50 - 200	-0.0190	+/-0.50	
Chlorobenzene-d5	491682	10.28	478121	10.292	103	50 - 200	-0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	325360	13.286	325586	13.292	100	50 - 200	-0.0060	+/-0.50	
Blank (1205988-BLK1)			**Lab File ID: BLK0510.D**			**Analyzed: 05/10/12 09:32**			
Fluorobenzene	625629	5.86	575143	5.879	109	50 - 200	-0.0190	+/-0.50	
Chlorobenzene-d5	499689	10.286	478121	10.292	105	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	301306	13.286	325586	13.292	93	50 - 200	-0.0060	+/-0.50	
106092 (1205072-01)			**Lab File ID: 1205072-01.D**			**Analyzed: 05/10/12 14:37**			
Fluorobenzene	546579	5.86	575143	5.879	95	50 - 200	-0.0190	+/-0.50	
Chlorobenzene-d5	502018	10.286	478121	10.292	105	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	319233	13.285	325586	13.292	98	50 - 200	-0.0070	+/-0.50	
106093 (1205073-01)			**Lab File ID: 1205073-01.D**			**Analyzed: 05/10/12 15:05**			
Fluorobenzene	629649	5.86	575143	5.879	109	50 - 200	-0.0190	+/-0.50	
Chlorobenzene-d5	501397	10.286	478121	10.292	105	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	304959	13.285	325586	13.292	94	50 - 200	-0.0070	+/-0.50	
106036 (1205085-01)			**Lab File ID: 1205085-01.D**			**Analyzed: 05/10/12 15:32**			
Fluorobenzene	571791	5.866	575143	5.879	99	50 - 200	-0.0130	+/-0.50	
Chlorobenzene-d5	464880	10.286	478121	10.292	97	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	279613	13.286	325586	13.292	86	50 - 200	-0.0060	+/-0.50	
106037 (1205085-02)			**Lab File ID: 1205085-02.D**			**Analyzed: 05/10/12 16:00**			
Fluorobenzene	536086	5.866	575143	5.879	93	50 - 200	-0.0130	+/-0.50	
Chlorobenzene-d5	437585	10.286	478121	10.292	92	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	262909	13.286	325586	13.292	81	50 - 200	-0.0060	+/-0.50	
Matrix Spike (1205988-MS1)			**Lab File ID: 08502MS.D**			**Analyzed: 05/10/12 19:14**			
Fluorobenzene	538470	5.86	575143	5.879	94	50 - 200	-0.0190	+/-0.50	
Chlorobenzene-d5	447241	10.28	478121	10.292	94	50 - 200	-0.0120	+/-0.50	
1,4-Dichlorobenzene-d4	315272	13.286	325586	13.292	97	50 - 200	-0.0060	+/-0.50	
Matrix Spike Dup (1205988-MSD1)			**Lab File ID: 08502MSD.D**			**Analyzed: 05/10/12 19:42**			
Fluorobenzene	576239	5.86	575143	5.879	100	50 - 200	-0.0190	+/-0.50	
Chlorobenzene-d5	469512	10.286	478121	10.292	98	50 - 200	-0.0060	+/-0.50	
1,4-Dichlorobenzene-d4	323032	13.286	325586	13.292	99	50 - 200	-0.0060	+/-0.50	

HOLDING TIME SUMMARY
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM050112

Client: TechLaw

Project: KNM

Method: Volatile Organic Compounds by EPA Method 8260B

Sample Name	Date Collected	Date Received	Date Leached	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
106092	05/01/12	05/02/12		05/10/12	9	NA	05/10/12	9	14	
106093	05/01/12	05/02/12		05/10/12	9	NA	05/10/12	9	14	
106036	05/02/12	05/03/12		05/10/12	8	NA	05/10/12	8	14	
106037	05/02/12	05/03/12		05/10/12	8	NA	05/10/12	8	14	

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106092

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205072-01 File ID: 1205072-01.D

Sampled: 05/01/12 15:22 Prepared: 05/10/12 08:00 Analyzed: 05/10/12 14:37

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	13	1.1	5.0	
71-43-2	Benzene	1	0.25	0.11	1.0	J
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	64	0.18	5.0	
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	2.8	0.21	1.0	
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	6.9	0.22	1.0	
79-20-9	Methyl Acetate	1	0.96	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	18	0.37	5.0	
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106092

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205072-01 File ID: 1205072-01.D

Sampled: 05/01/12 15:22 Prepared: 05/10/12 08:00 Analyzed: 05/10/12 14:37

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	37.8	94	85 - 118	
1,2-Dichloroethane-d4	40.0	40.7	102	87 - 122	
Toluene-d8	40.0	41.4	104	85 - 113	
4-Bromofluorobenzene	40.0	40.4	101	82 - 110	

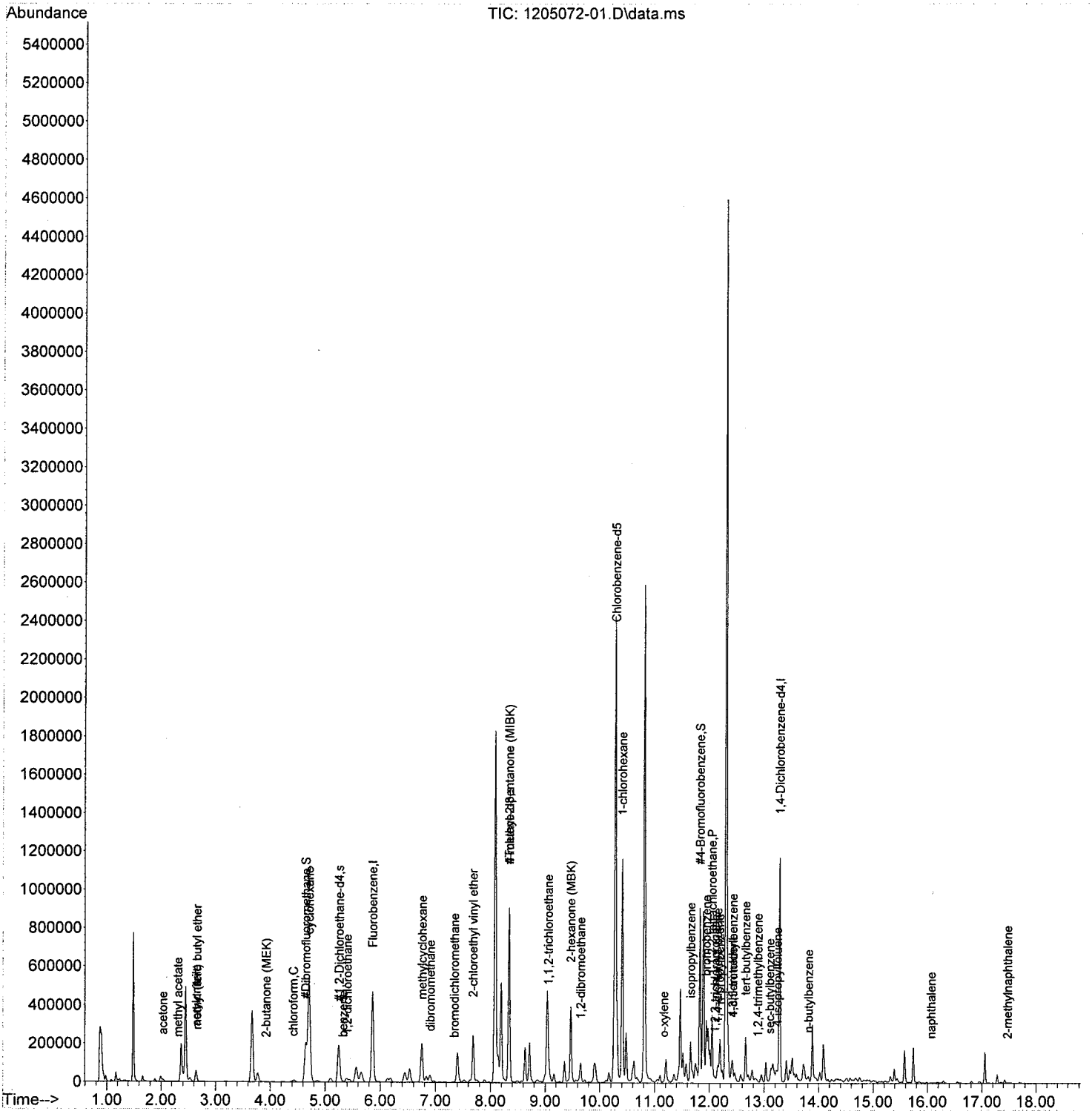
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	546579	5.86	95	5.879	
Chlorobenzene-d5	502018	10.286	105	10.292	
1,4-Dichlorobenzene-d4	319233	13.285	98	13.292	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



00421

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.860	96	546579	40.00	ug/L	-0.02
51) Chlorobenzene-d5	10.286	117	502018	40.00	ug/L	-0.01
66) 1,4-Dichlorobenzene-d4	13.285	152	319233	40.00	ug/L	#-0.01
System Monitoring Compounds						
29) #Dibromofluoromethane	4.647	111	167512	37.80	ug/L	-0.02
Spiked Amount 40.000			Recovery = 94.50%			
37) #1,2-Dichloroethane-d4	5.250	67	109523	40.68	ug/L	-0.02
Spiked Amount 40.000			Recovery = 101.70%			
47) #Toluene-d8	8.335	98	593877	41.44	ug/L	-0.02
Spiked Amount 40.000			Recovery = 103.60%			
65) #4-Bromofluorobenzene	11.828	95	283206	40.36	ug/L	-0.01
Spiked Amount 40.000			Recovery = 100.90%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.		
3) chloromethane	0.000		0	N.D.		
4) vinyl chloride	0.000		0	N.D.		
5) bromomethane	0.000		0	N.D.		
6) chloroethane	0.000		0	N.D.		
7) dichlorofluoromethane	0.000		0	N.D.		
8) trichlorofluoromethane	0.000		0	N.D.		
9) ethyl ether	0.000		0	N.D.		
10) acrolein	0.000		0	N.D.		
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.		
12) 1,1-dichloroethene	0.000		0	N.D.		
13) acetone	2.032	43	16127	12.59	ug/L	98
14) iodomethane	0.000		0	N.D.		
15) carbon disulfide	0.000		0	N.D.		
16) methyl acetate	2.306	43	2458	0.96	ug/L #	58
17) methylene chloride	0.000		0	N.D.		
18) acrylonitrile	2.641	53	1808	1.56	ug/L #	17
19) trans-1,2-dichloroethene	0.000		0	N.D.		
20) methyl (tert) butyl ether	2.653	73	3898	ps 0.35	ug/L #	1
21) 1,1-dichloroethane	0.000		0	N.D.		
22) vinyl acetate	0.000		0	N.D.		
23) 2,2-dichloropropane	0.000		0	N.D.		
24) cis-1,2-dichloroethene	0.000		0	N.D.		
25) 2-butanone (MEK)	3.921	43	1287	ps 1.04	ug/L #	48
26) bromochloromethane	0.000		0	N.D.		
27) tetrahydrofuran	0.000		0	N.D.		
28) chloroform	4.415	83	4293	ps 0.49	ug/L #	18
30) 1,1,1-trichloroethane	0.000		0	N.D.		
31) cyclohexane	4.708	56	343910	64.14	ug/L	98
32) carbon tetrachloride	0.000		0	N.D.		
33) 1,1-dichloropropene	0.000		0	N.D.		
34) benzene	5.324	78	3689	0.25	ug/L #	55
35) 1,2-dichloroethane	5.397	62	21233	2.85	ug/L	78
36) heptane	5.866	57	19619	No Calib	#	
38) trichloroethene	0.000		0	N.D.		

00422

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

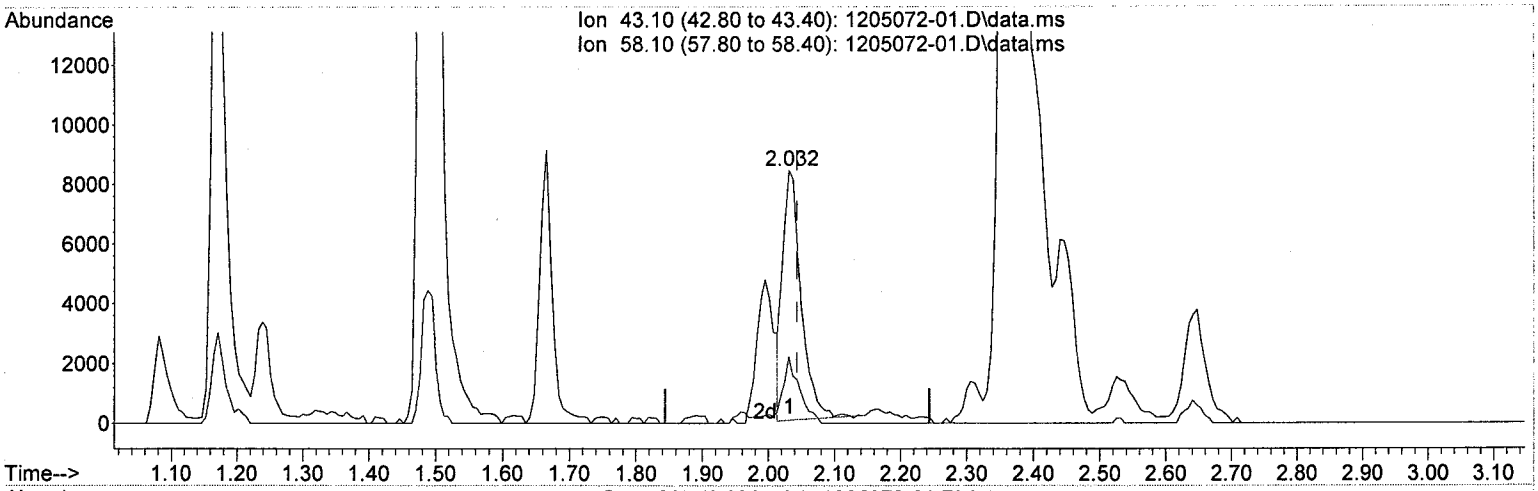
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.750	83	96617	17.68 ug/L	94
40) 1,2-dichloropropane	0.000		0	N.D.	
41) dibromomethane	6.903	93	1469	0.58 ug/L #	1
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	7.341	83	3219	~~0.51~~ ug/L #	25
44) 2-chloroethyl vinyl ether	7.677	63	6308	9.12 ug/L #	1
45) cis-1,3-dichloropropene	0.000		0	N.D.	
46) 4-methyl-2-pentanone (...	8.335	43	6664	~~5.22~~ ug/L #	1
48) toluene	0.000		0	N.D.	
49) trans-1,3-dichloropropene	0.000		0	N.D.	
50) 1,1,2-trichloroethane	9.055	83	18499	~~7.28~~ ug/L #	5
52) tetrachloroethene	0.000		0	N.D.	
53) 1,3-dichloropropane	0.000		0	N.D.	
54) 2-hexanone (MBK)	9.469	43	68767	~~36.69~~ ug/L #	41
55) dibromochloromethane	0.000		0	N.D.	
56) 1,2-dibromoethane	9.652	109	2591	~~0.75~~ ug/L #	100
57) chlorobenzene	0.000		0	N.D.	
58) 1-chlorohexane	10.408	55	300111	73.03 ug/L #	1
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60) ethylbenzene	0.000		0	N.D.	
61) m+p-xylene	0.000		0	N.D.	
62) o-xylene	11.164	106	1447	0.19 ug/L	96
63) styrene	0.000		0	N.D.	
64) bromoform	0.000		0	N.D.	
67) isopropylbenzene	11.658	105	128347	6.90 ug/L	98
68) bromobenzene	11.944	77	3417	0.44 ug/L #	13
69) 1,1,2,2-tetrachloroethane	12.048	83	3073	~~0.80~~ ug/L #	18
70) 1,2,3-trichloropropane	12.103	110	1442	0.91 ug/L #	8
71) 1,4-dichloro-2-butene	12.152	53	2426	3.00 ug/L #	10
72) n-propylbenzene	12.188	120	3460	0.63 ug/L #	85
73) 2-chlorotoluene	0.000		0	N.D.	
74) 1,3,5-trimethylbenzene	12.426	105	31597	1.84 ug/L	99
75) 4-chlorotoluene	12.426	91	5535	0.32 ug/L #	45
76) tert-butylbenzene	12.658	119	2865	0.20 ug/L #	1
77) 1,2,4-trimethylbenzene	12.883	105	1498	0.09 ug/L #	32
78) sec-butylbenzene	13.103	105	10581	0.56 ug/L	90
79) 1,3-dichlorobenzene	0.000		0	N.D.	
80) 4-isopropyltoluene	13.243	119	21972	1.22 ug/L	94
81) 1,4-dichlorobenzene	0.000		0	N.D.	
82) 1,2-dichlorobenzene	0.000		0	N.D.	
83) n-butylbenzene	13.810	91	3969	0.82 ug/L #	27
84) hexachloroethane	0.000		0	N.D.	
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86) 1,2,4-trichlorobenzene	0.000		0	N.D.	
87) hexachlorobutadiene	0.000		0	N.D.	
88) naphthalene	16.065	128	1288	2.59 ug/L #	77
89) 1,2,3-trichlorobenzene	0.000		0	N.D.	
90) 2-methylnaphthalene	17.474	142	1728	2.68 ug/L #	81

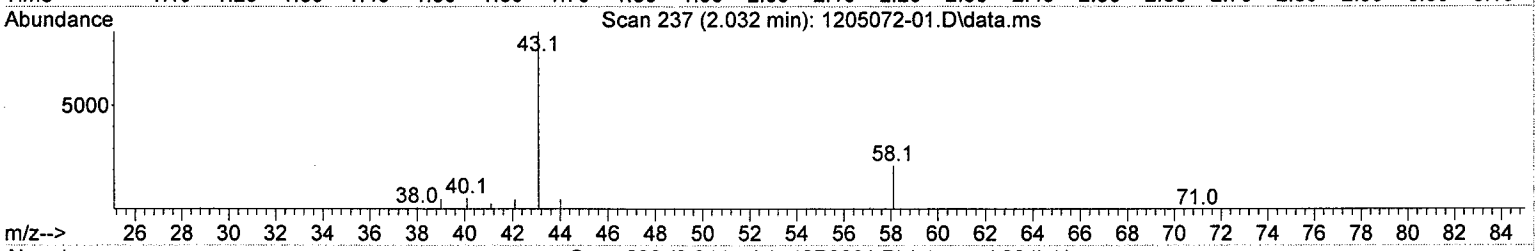
(#) = qualifier out of range (m) = manual integration (+) = signals summed

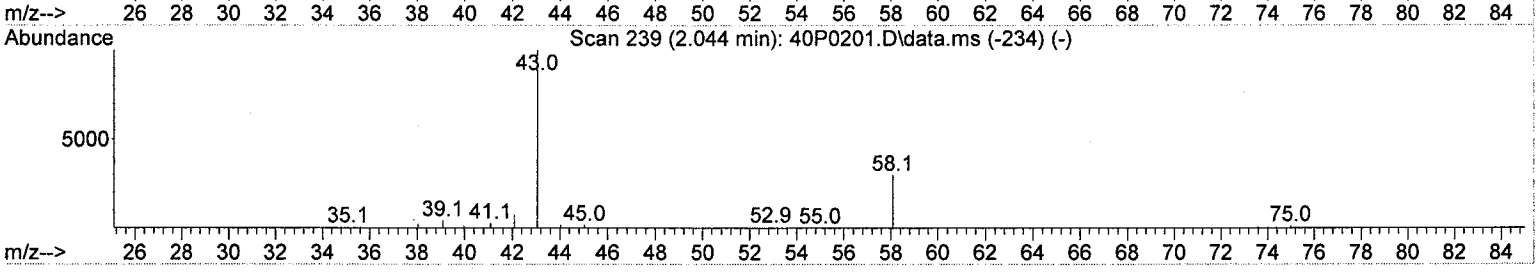
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205072-01.D\data.ms

(13) acetone

2.032min (-0.012) 12.59 ug/L

response 16127

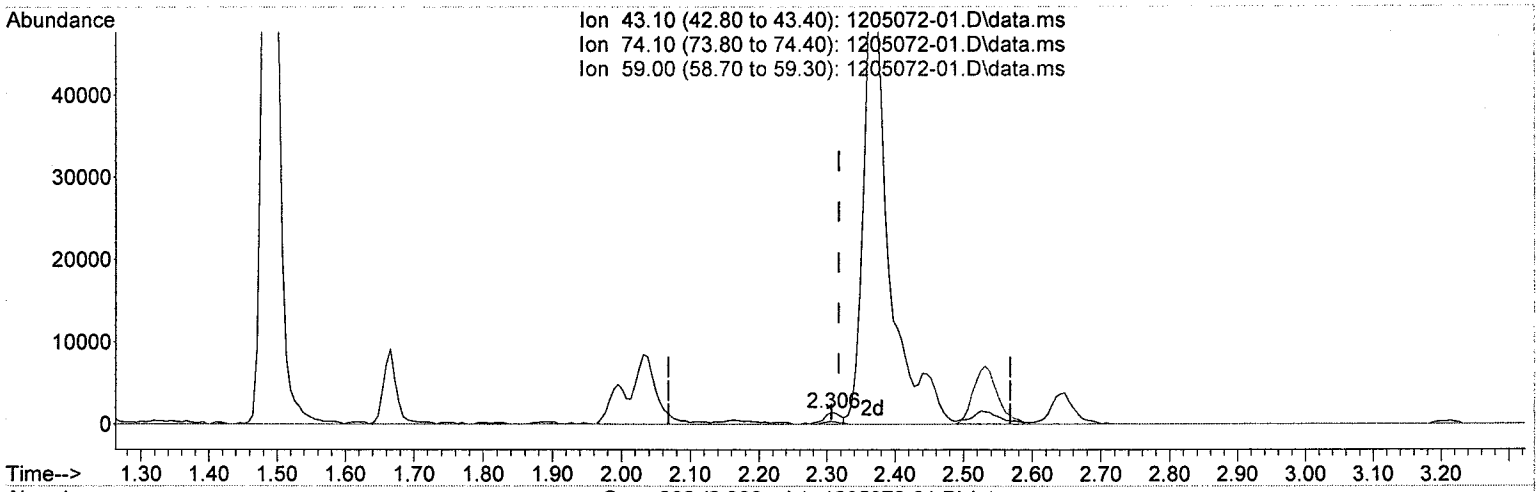
Ion	Exp%	Act%
43.10	100	100
58.10	23.00	23.78
0.00	0.00	0.00
0.00	0.00	0.00

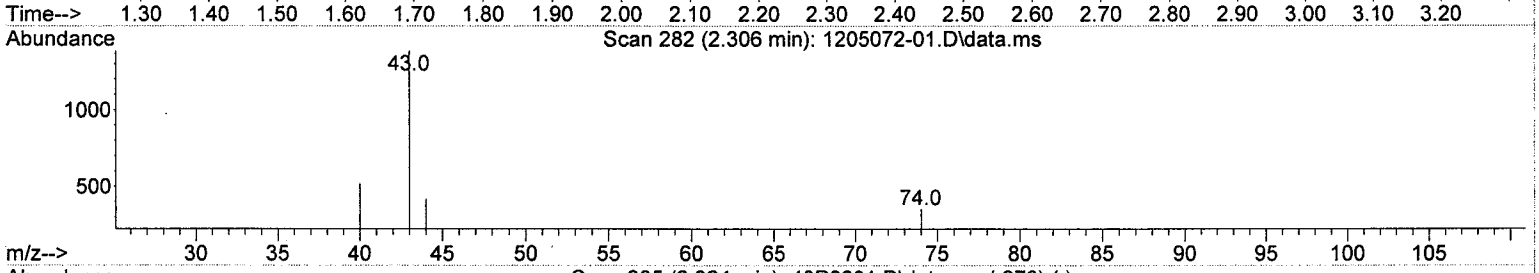
00424

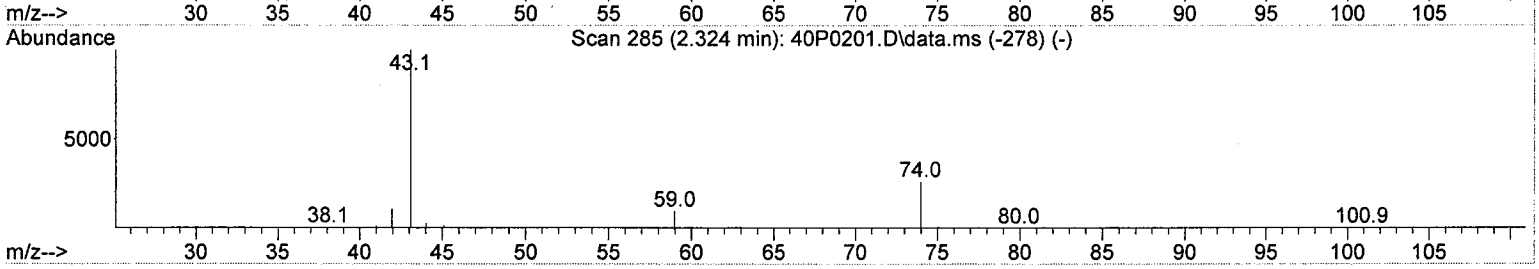
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205072-01.D\data.ms

(16) methyl acetate

2.306min (-0.012) 0.96 ug/L

response 2458

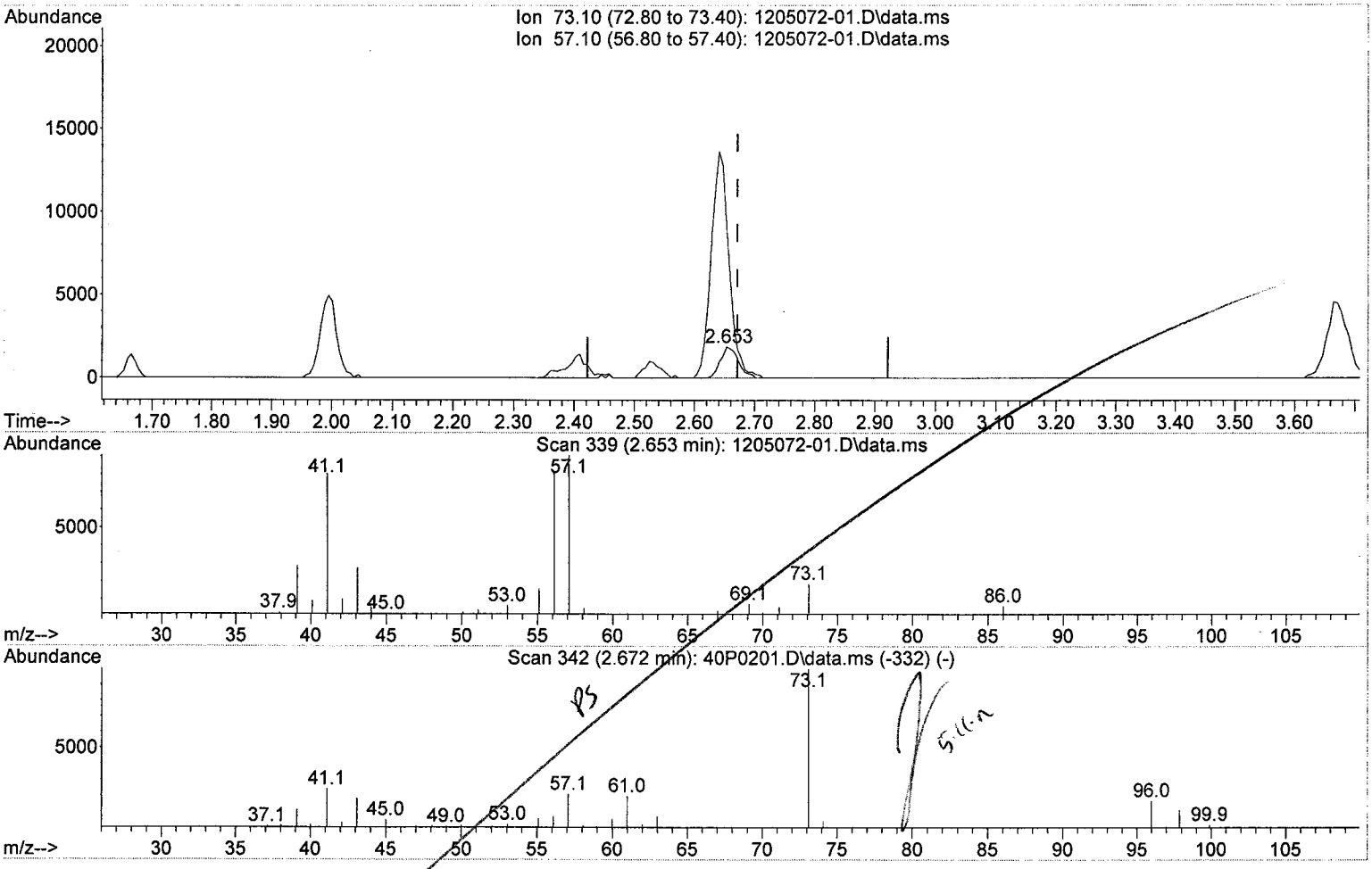
Ion	Exp%	Act%
43.10	100	100
74.10	24.00	0.00#
59.00	10.00	0.00
0.00	0.00	0.00

00425

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



TIC: 1205072-01.D\data.ms

(20) methyl (tert) butyl ether

2.653min (-0.019) 0.35 ug/L

response 3898

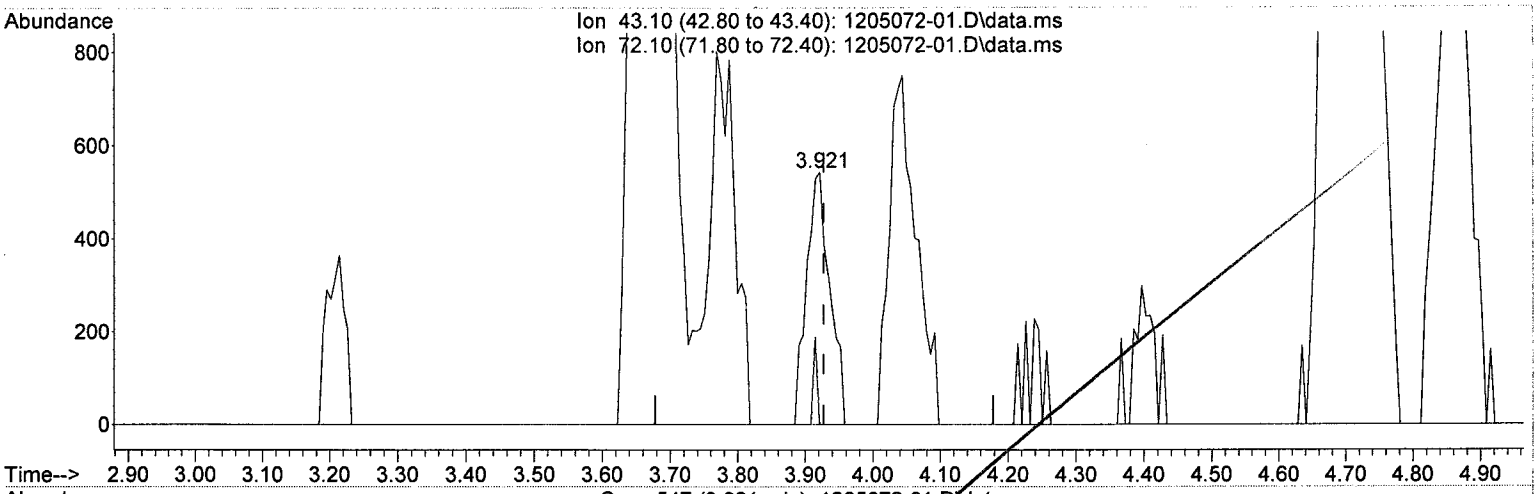
Ion	Exp%	Act%
73.10	100	100
57.10	18.90	724.17#
0.00	0.00	0.00
0.00	0.00	0.00

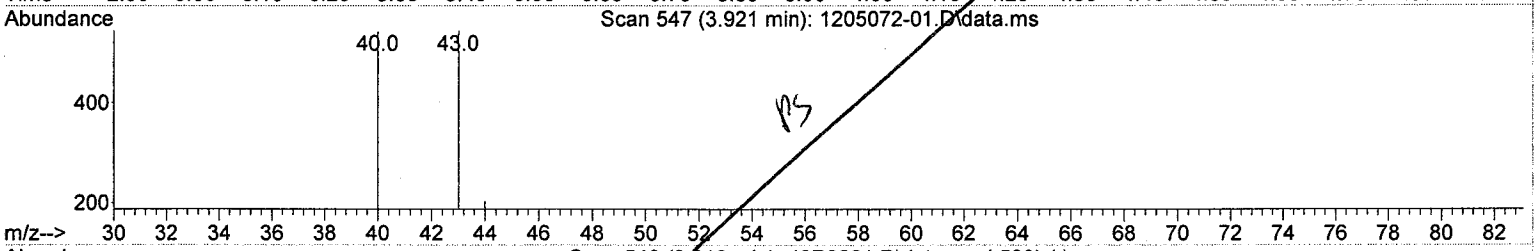
00426

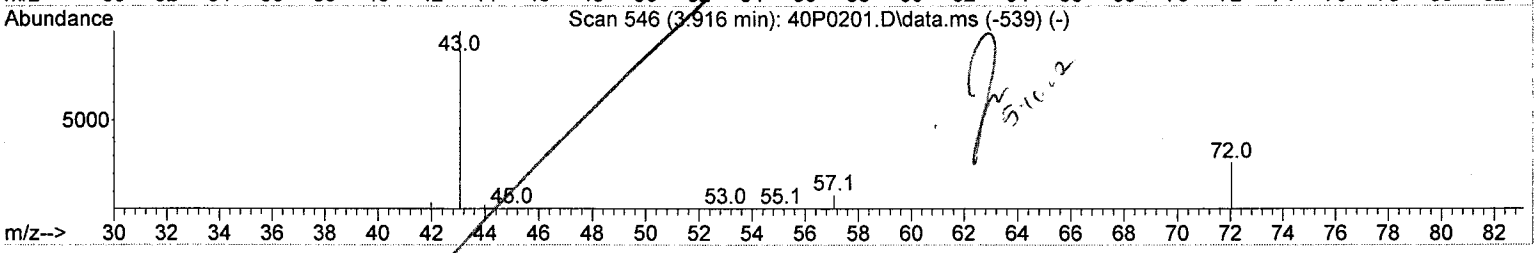
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205072-01.D\data.ms

(25) 2-butanone (MEK)

3.921min (-0.007) 1.04 ug/L

response 1287

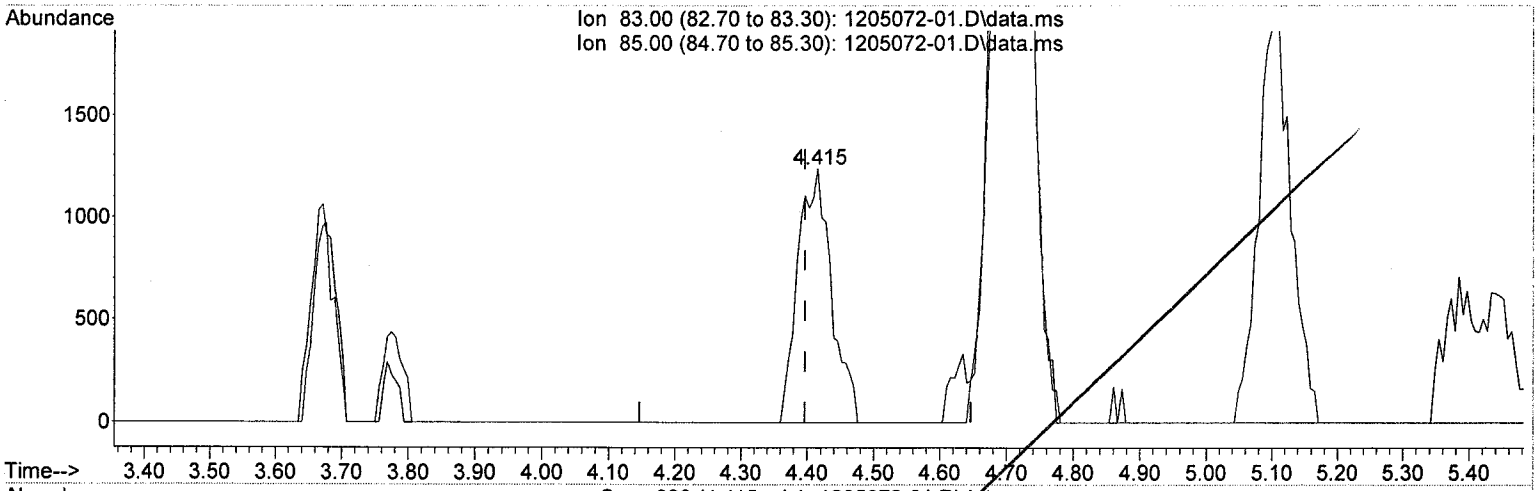
Ion	Exp%	Act%
43.10	100	100
72.10	26.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

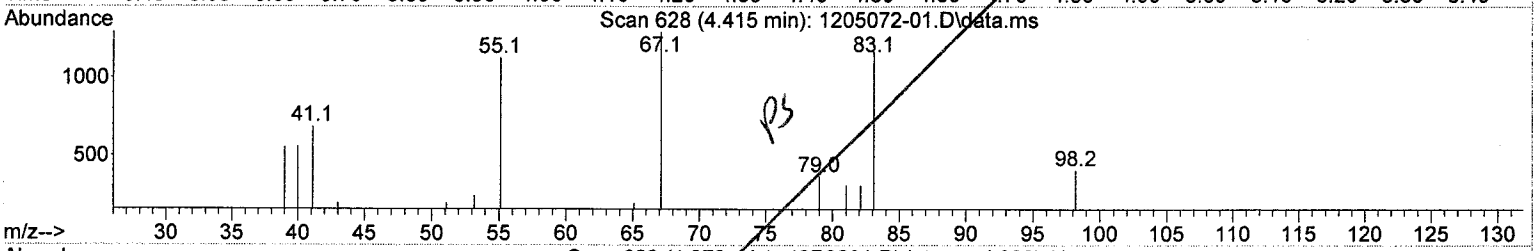
00427

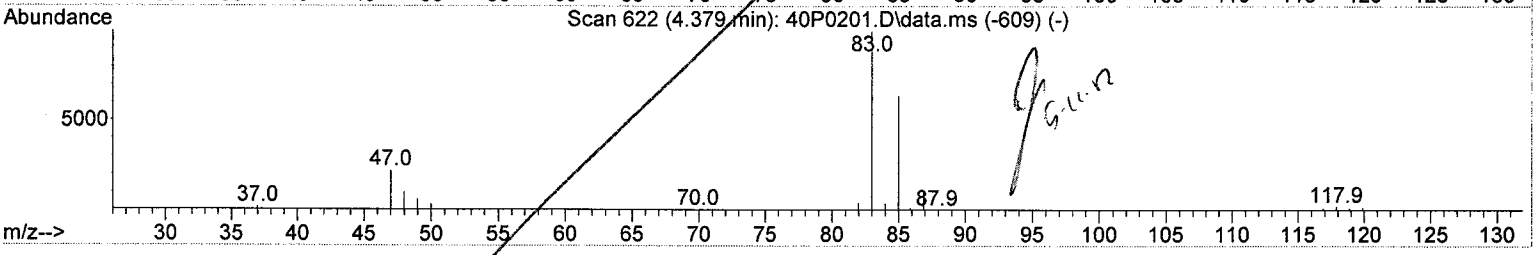
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205072-01.D\data.ms

(28) chloroform (C)

4.415min (+0.018) 0.49 ug/L

response 4293

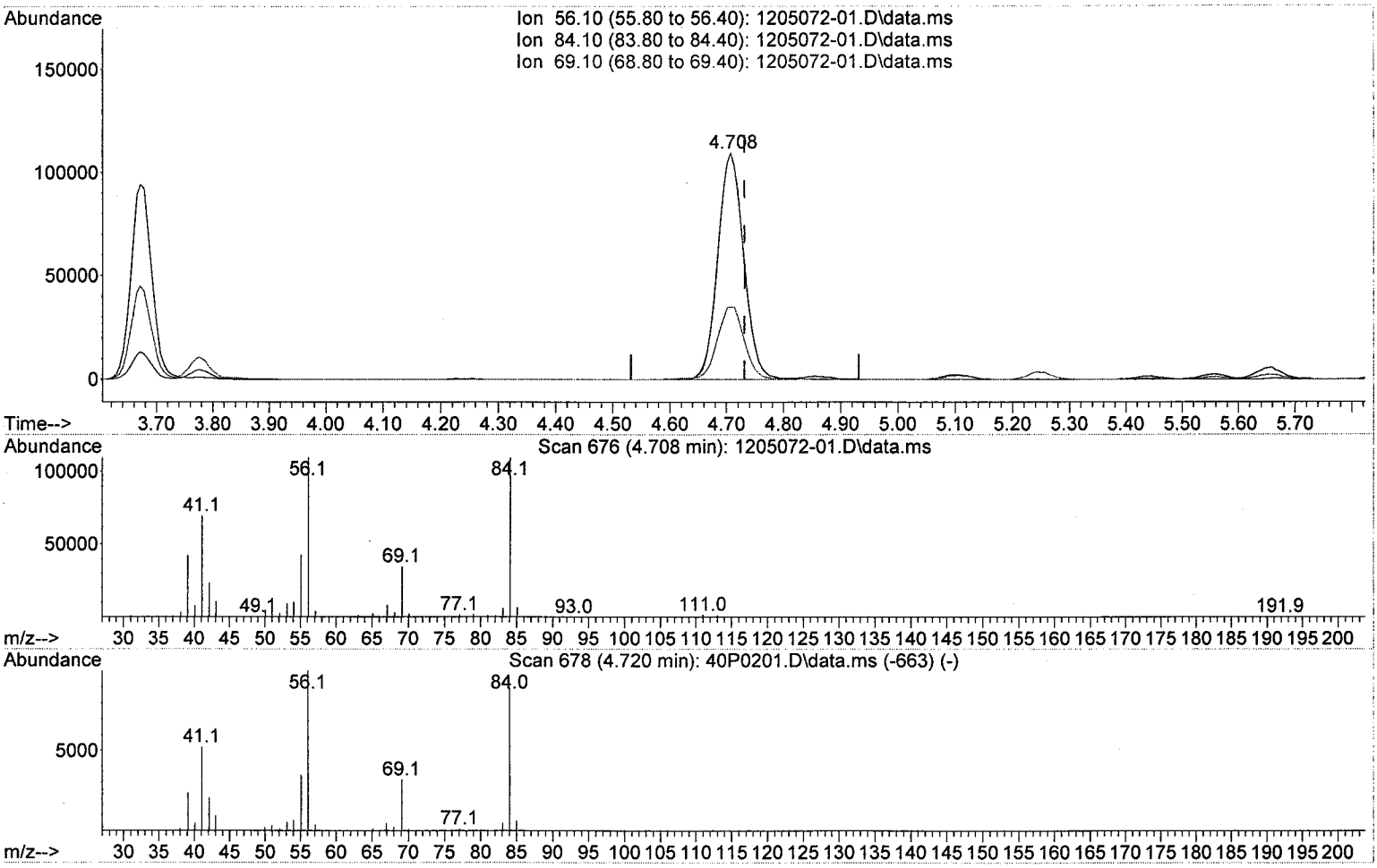
Ion	Exp%	Act%
83.00	100	100
85.00	64.50	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00428

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



TIC: 1205072-01.D\data.ms

(31) cyclohexane

4.708min (-0.024) 64.14 ug/L

response 343910

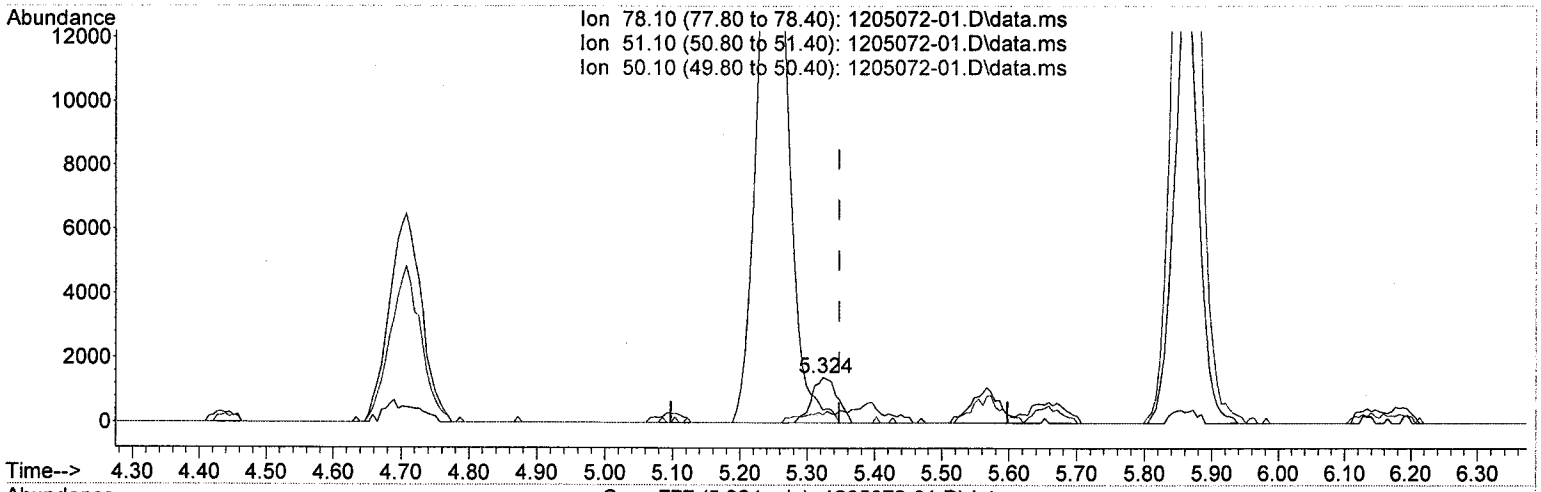
Ion	Exp%	Act%
56.10	100	100
84.10	102.60	99.49
69.10	33.30	33.17
0.00	0.00	0.00

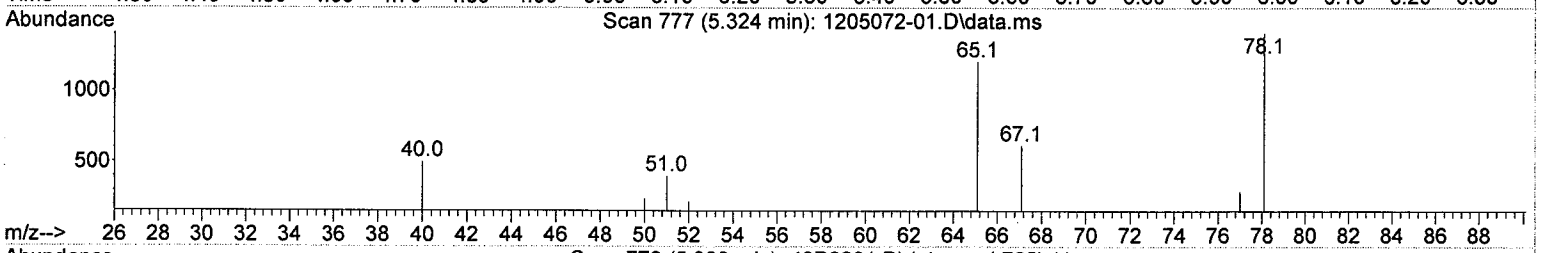
00429

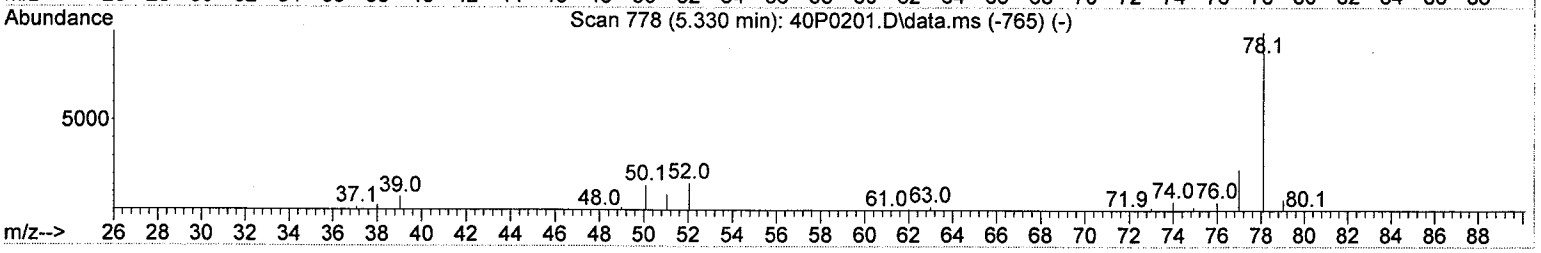
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205072-01.D\data.ms

(34) benzene

5.324min (-0.024) 0.25 ug/L

response 3689

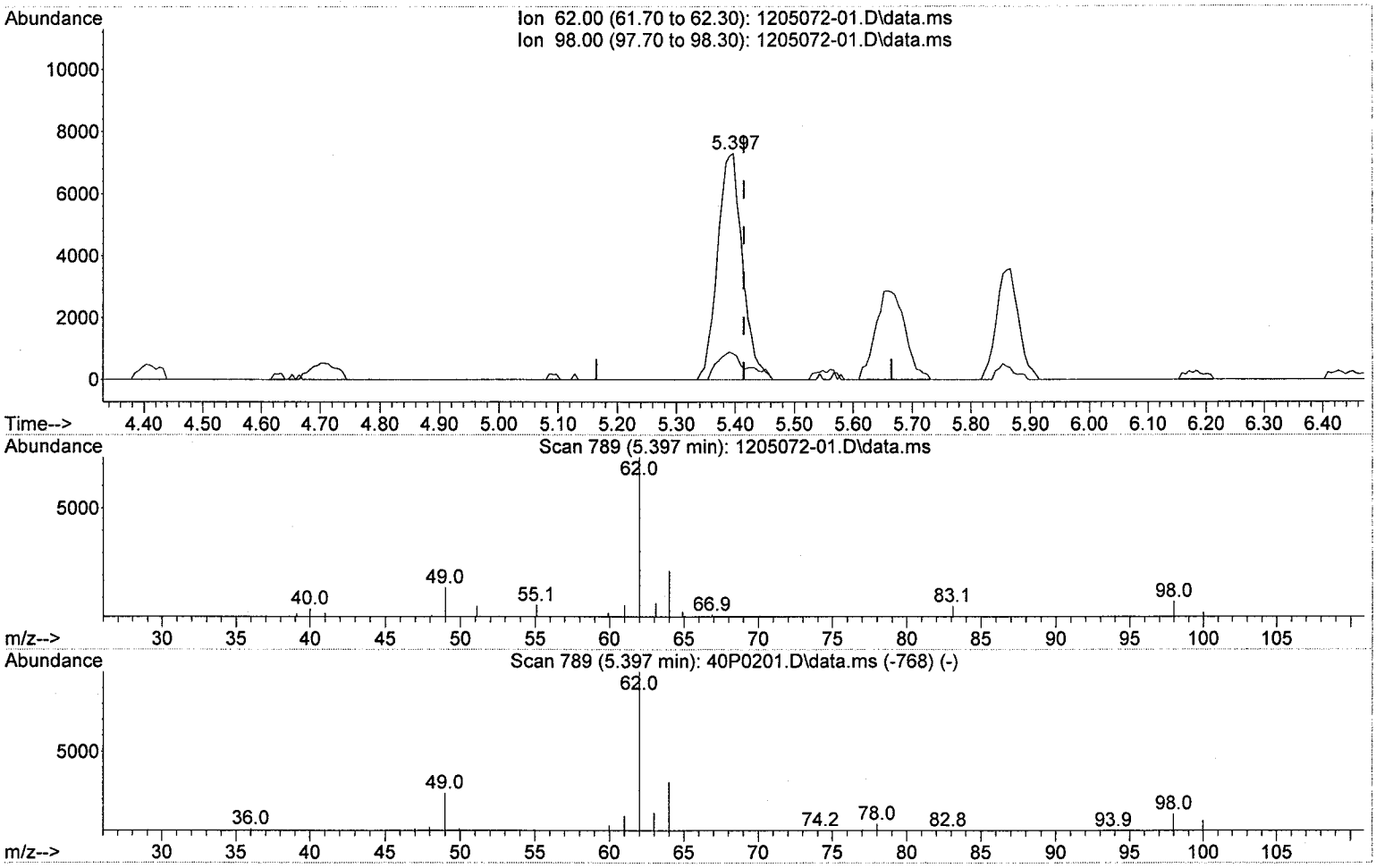
Ion	Exp%	Act%
78.10	100	100
51.10	22.60	0.00#
50.10	19.20	0.00
0.00	0.00	0.00

00430

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



TIC: 1205072-01.D\data.ms

(35) 1,2-dichloroethane

5.397min (-0.018) 2.85 ug/L

response 21233

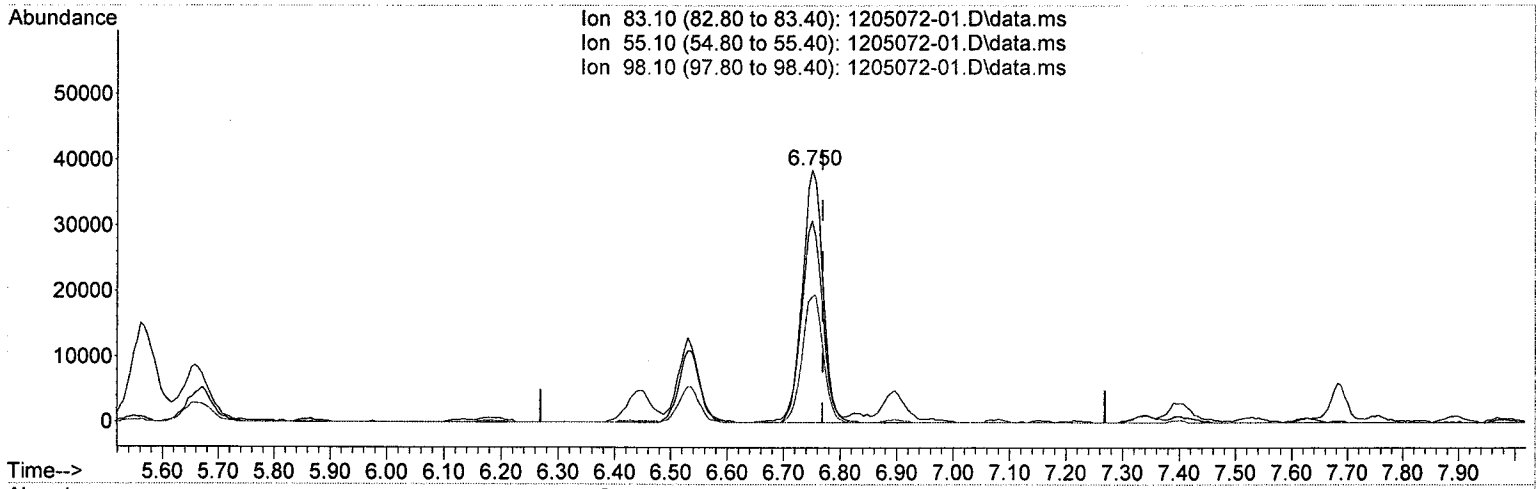
Ion	Exp%	Act%
62.00	100	100
98.00	7.10	14.76
0.00	0.00	0.00
0.00	0.00	0.00

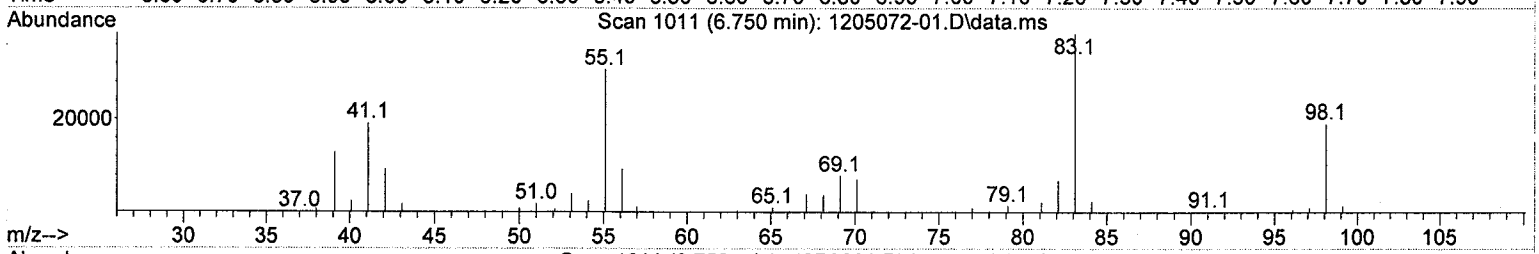
00431

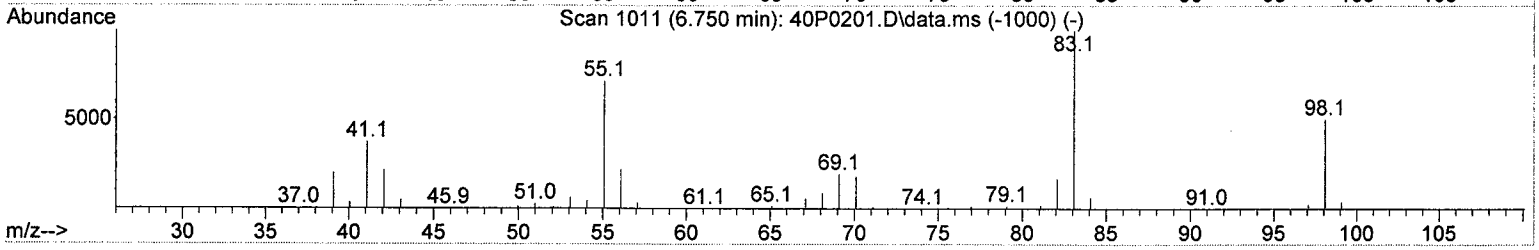
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205072-01.D\data.ms

(39) methylcyclohexane

6.750min (-0.019) 17.68 ug/L

response 96617

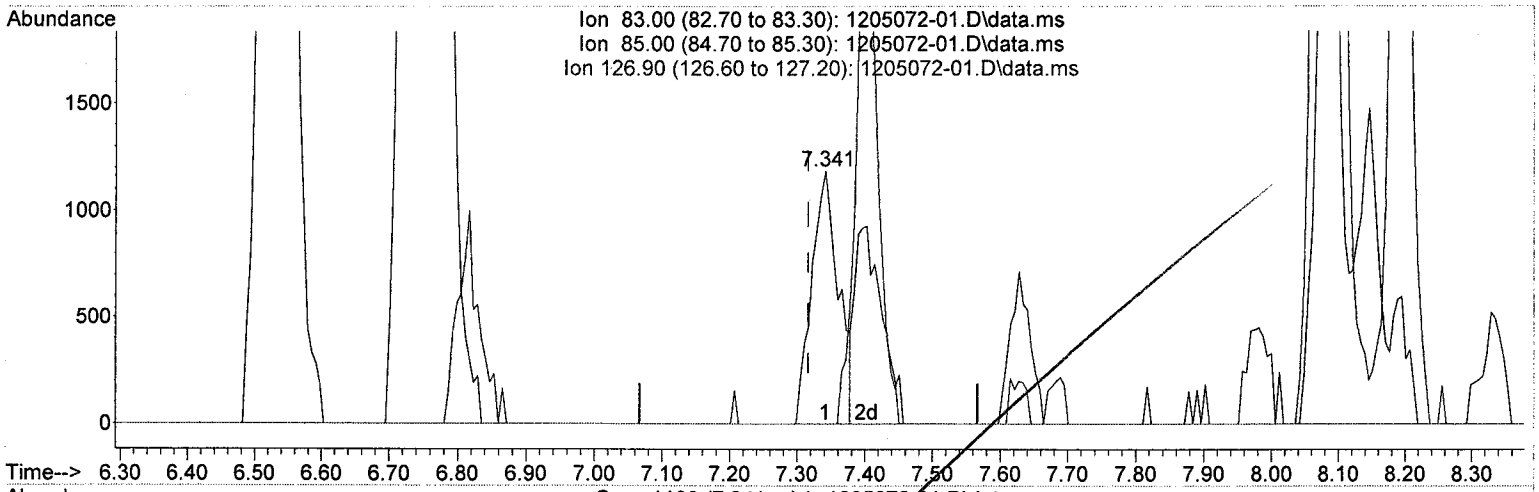
Ion	Exp%	Act%
83.10	100	100
55.10	76.00	83.39
98.10	53.70	51.58
0.00	0.00	0.00

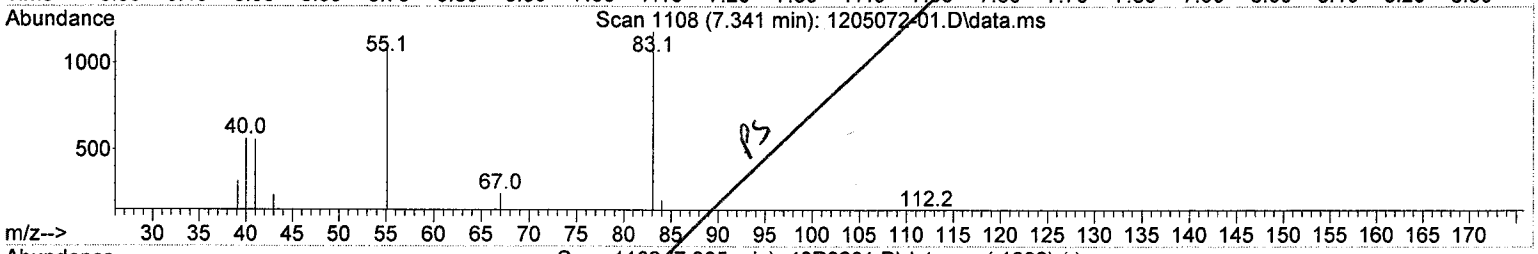
00432

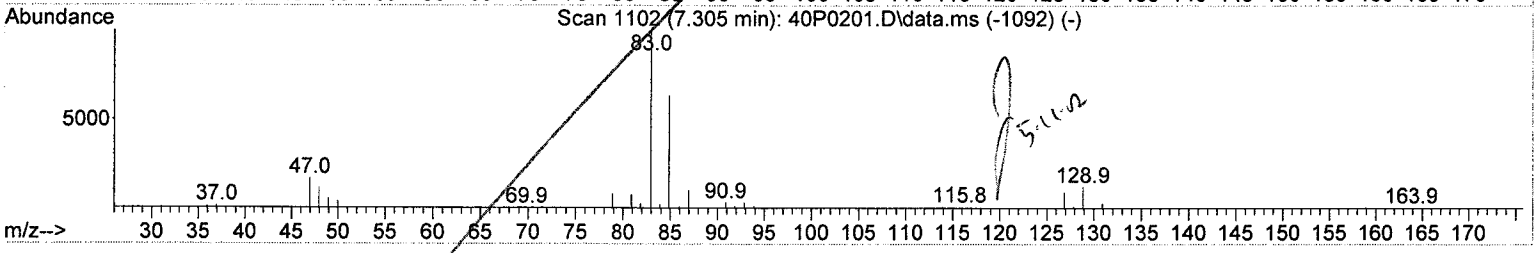
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205072-01.D\data.ms

(43) bromodichloromethane

7.341min (+0.024) 0.51 ug/L

response 3219

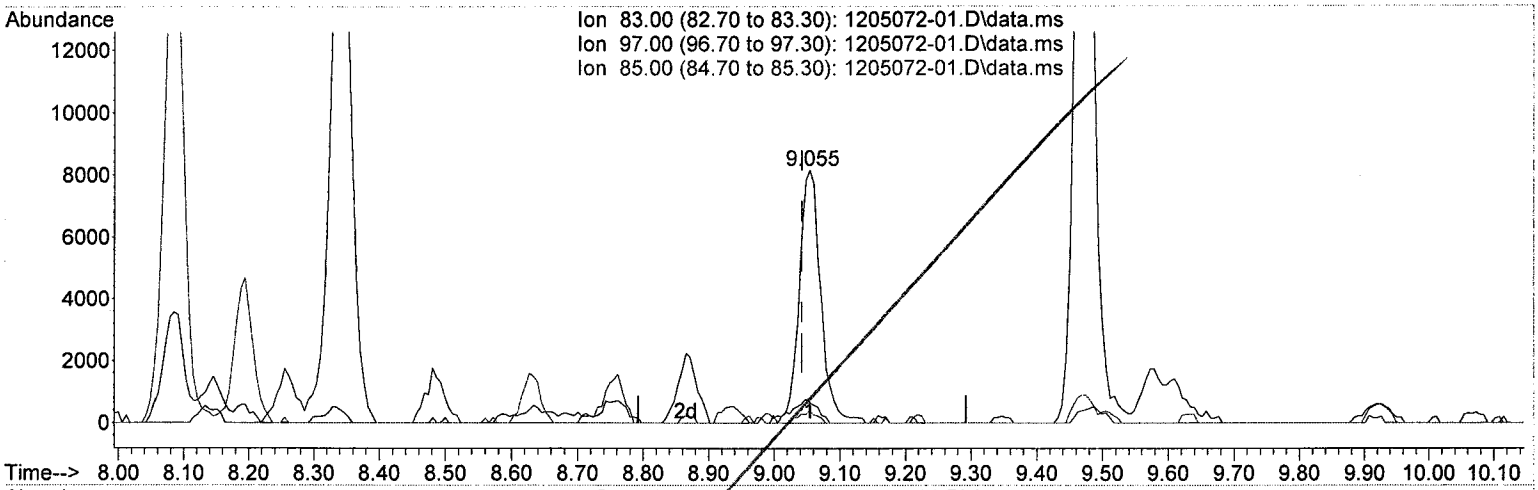
Ion	Exp%	Act%
83.00	100	100
85.00	63.90	0.00#
126.90	9.50	0.00
0.00	0.00	0.00

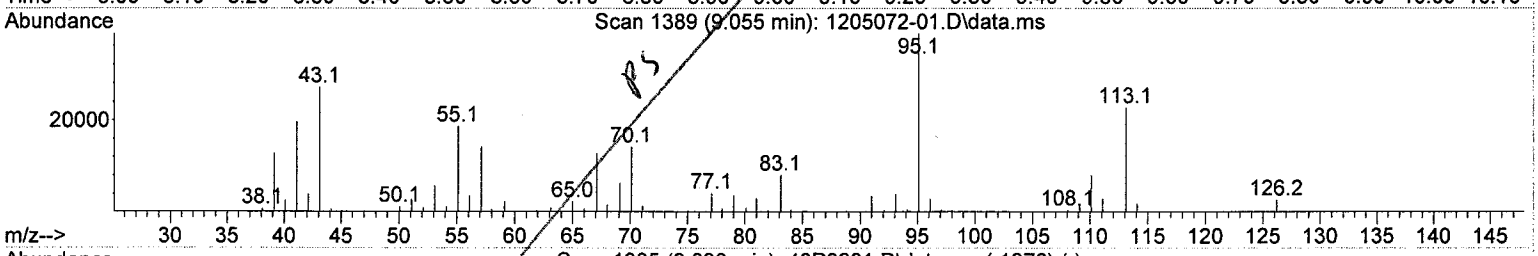
00433

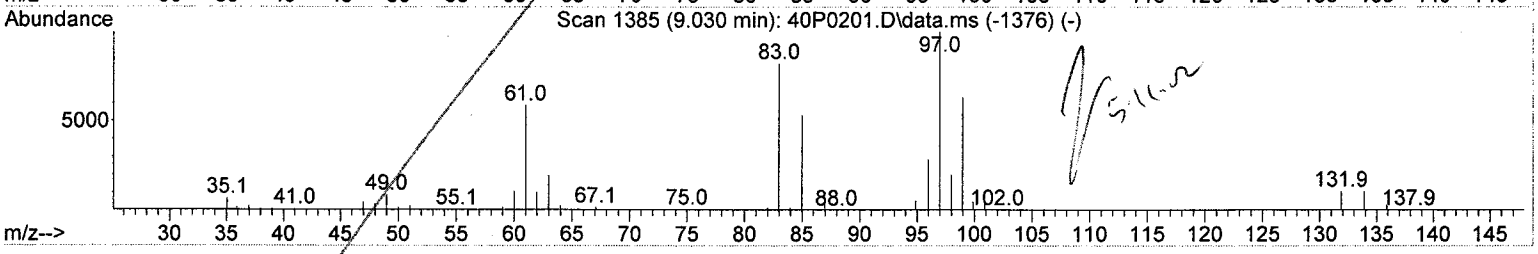
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205072-01.D\data.ms

(50) 1,1,2-trichloroethane

9.055min (+0.012) 7.28 ug/L

response 18499

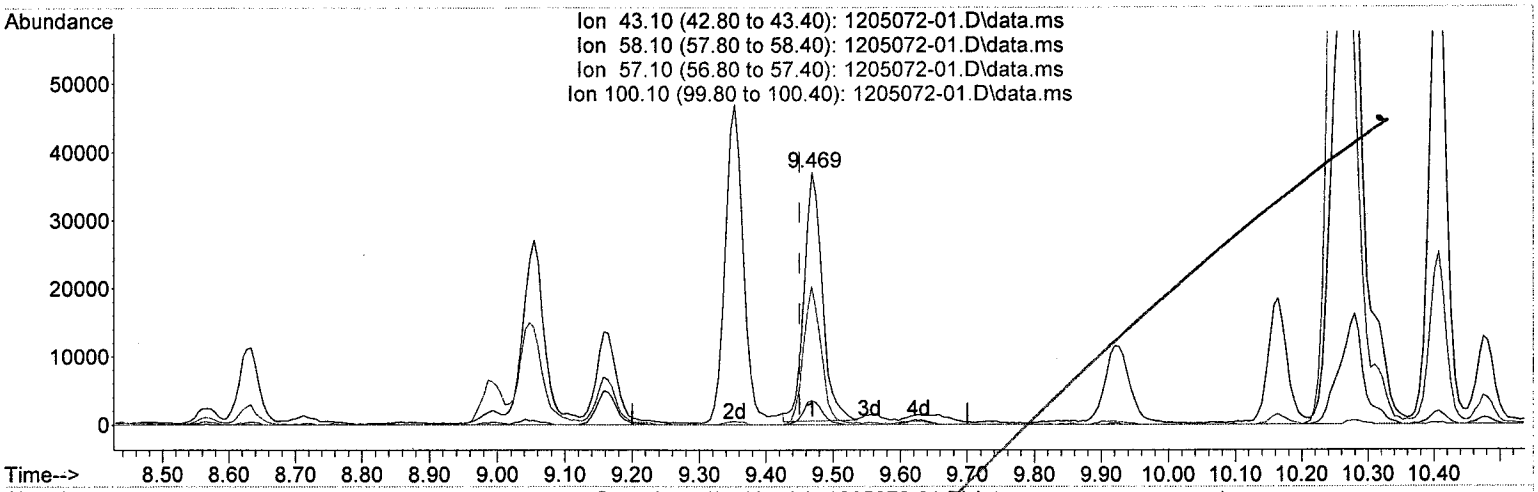
Ion	Exp%	Act%
83.00	100	100
97.00	126.50	10.30#
85.00	65.40	0.00#
0.00	0.00	0.00

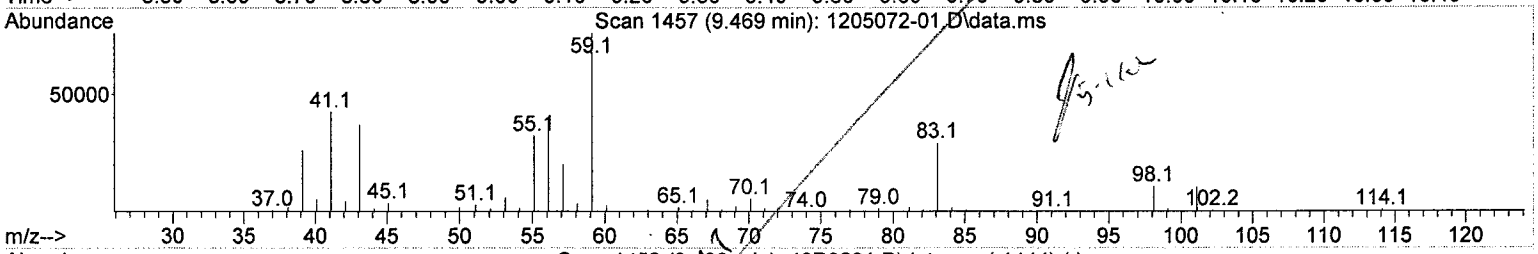
00434

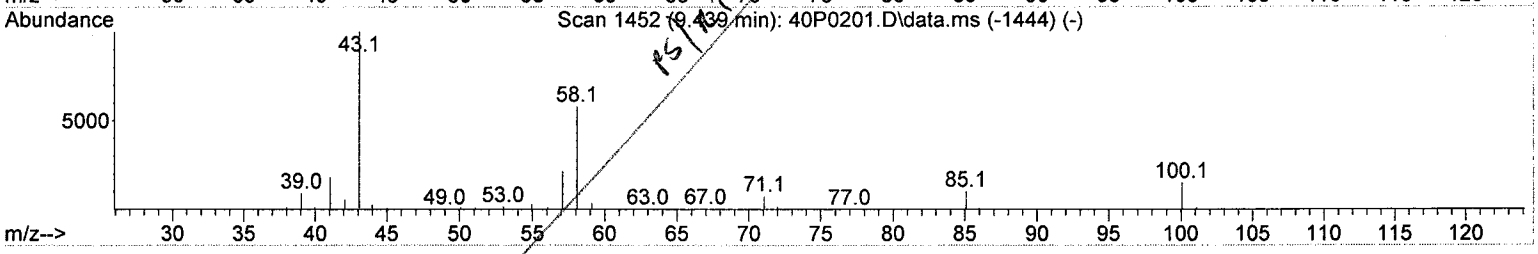
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205072-01.D\data.ms

(54) 2-hexanone (MBK)

9.469min (+0.018) 36.69 ug/L

response 68767

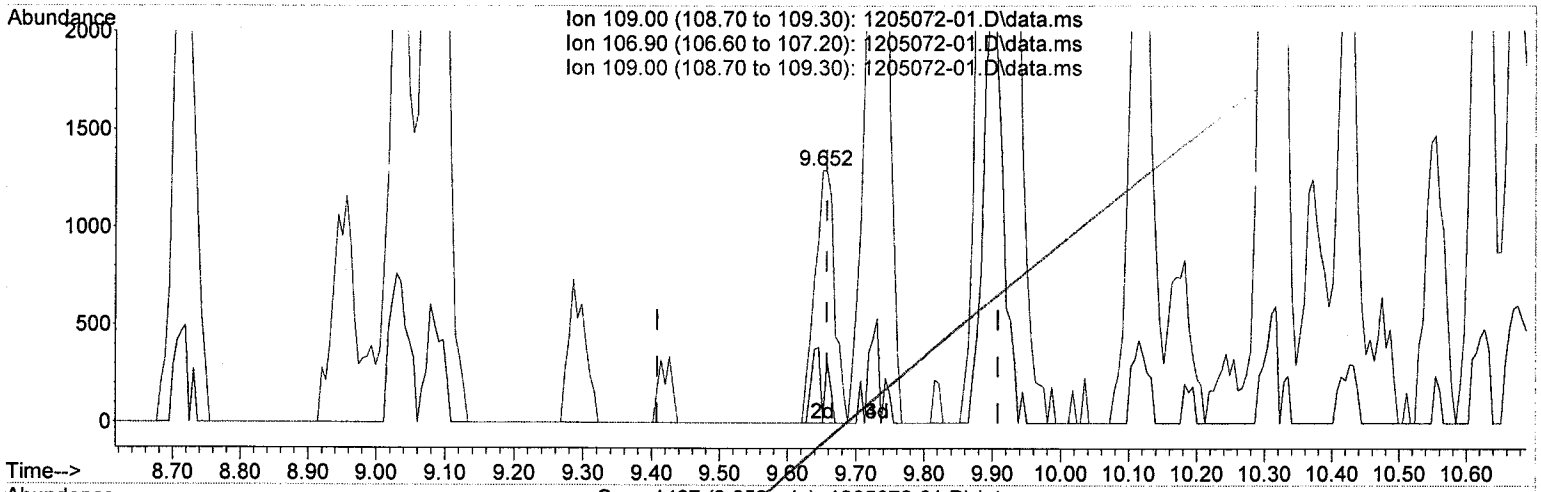
Ion	Exp%	Act%
43.10	100	100
58.10	51.40	10.12#
57.10	20.90	55.27#
100.10	14.60	0.00

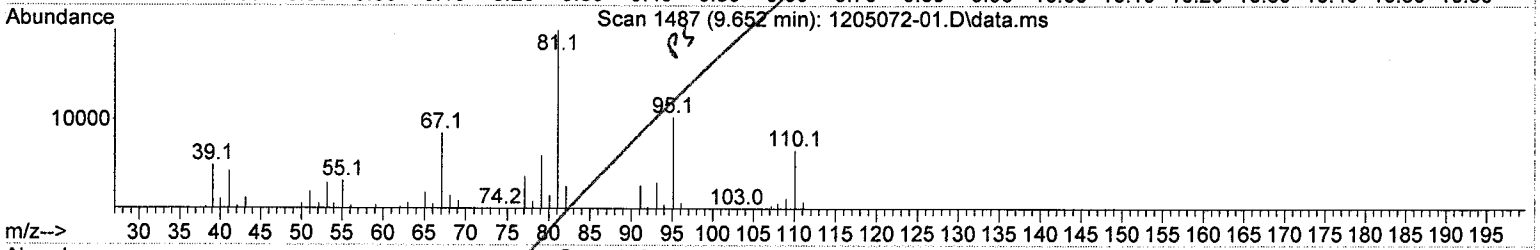
00435

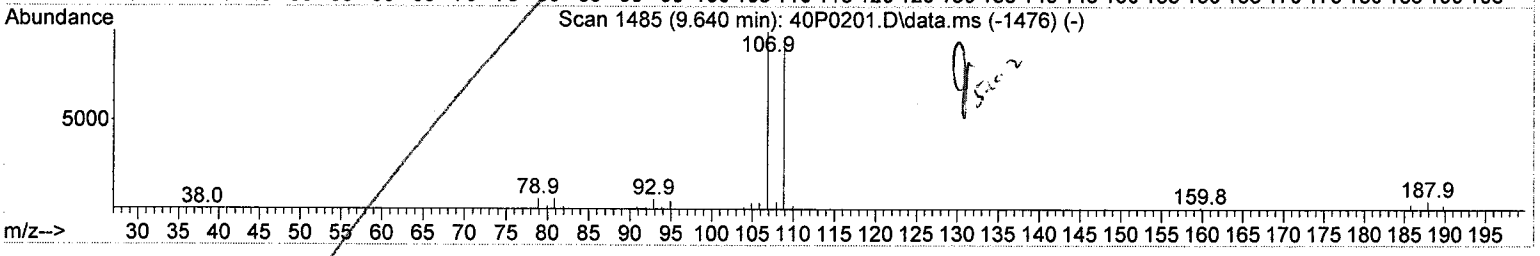
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205072-01.D\data.ms

(56) 1,2-dibromoethane

9.652min (-0.006) 0.75 ug/L

response 2591

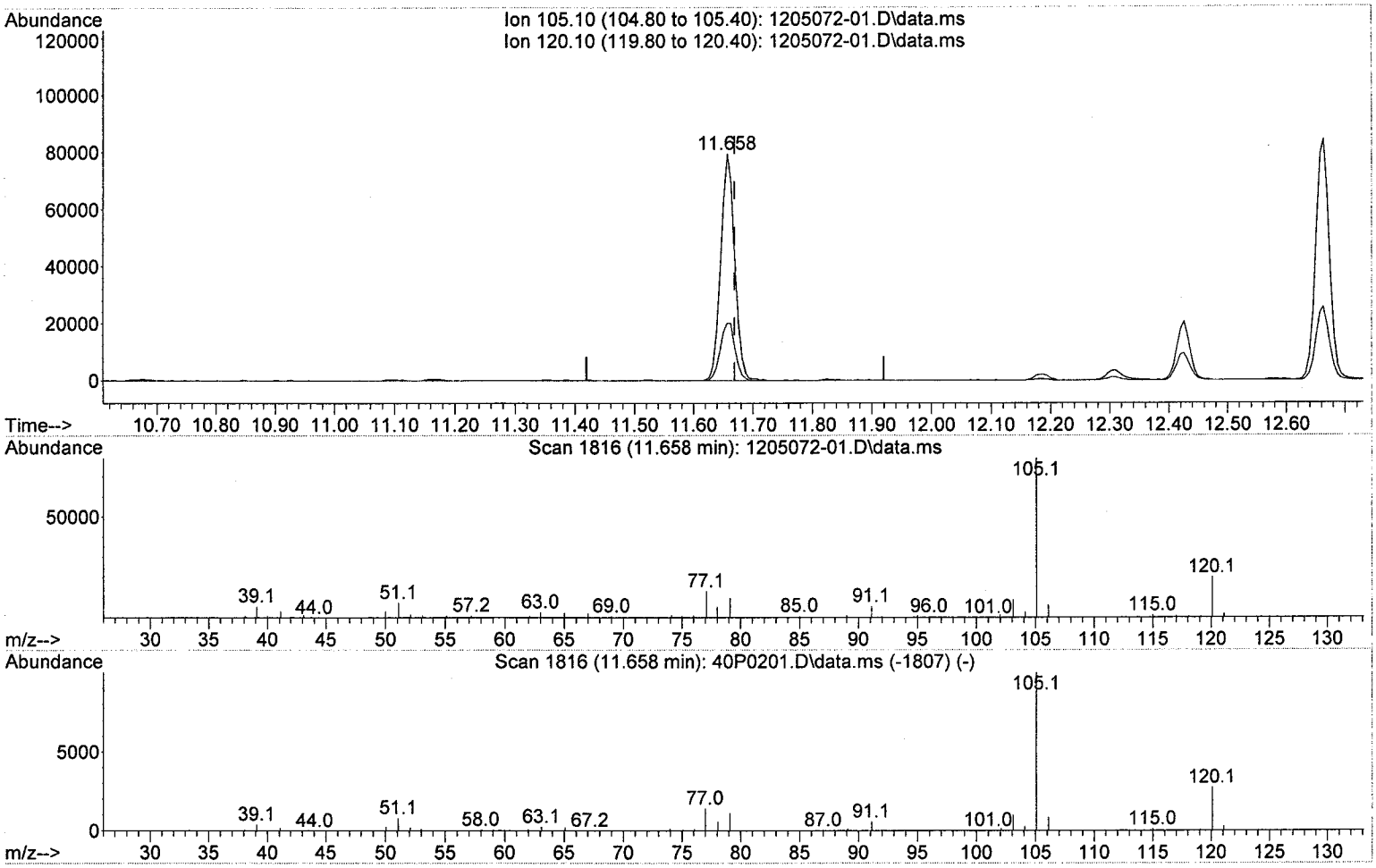
Ion	Exp%	Act%
109.00	100	100
106.90	0.00	0.00
109.00	100.00	100.00
0.00	0.00	0.00

00436

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205072-01.D
Acq On : 10 May 2012 14:37
Operator : DLV
Sample : 1205072-01
Misc : TL
ALS Vial : 15 Sample Multiplier: 1

Quant Time: May 10 14:58:34 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



TIC: 1205072-01.D\data.ms

(67) isopropylbenzene

11.658min (-0.012) 6.90 ug/L

response 128347

Ion	Exp%	Act%
105.10	100	100
120.10	25.80	26.77
0.00	0.00	0.00
0.00	0.00	0.00

00437

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106093

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205073-01 File ID: 1205073-01.D

Sampled: 05/01/12 11:16 Prepared: 05/10/12 08:00 Analyzed: 05/10/12 15:05

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	1.6	1.1	5.0	J
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.4	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106093

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205073-01 File ID: 1205073-01.D

Sampled: 05/01/12 11:16 Prepared: 05/10/12 08:00 Analyzed: 05/10/12 15:05

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	37.2	93	85 - 118	
1,2-Dichloroethane-d4	40.0	39.2	98	87 - 122	
Toluene-d8	40.0	37.2	93	85 - 113	
4-Bromofluorobenzene	40.0	36.8	92	82 - 110	

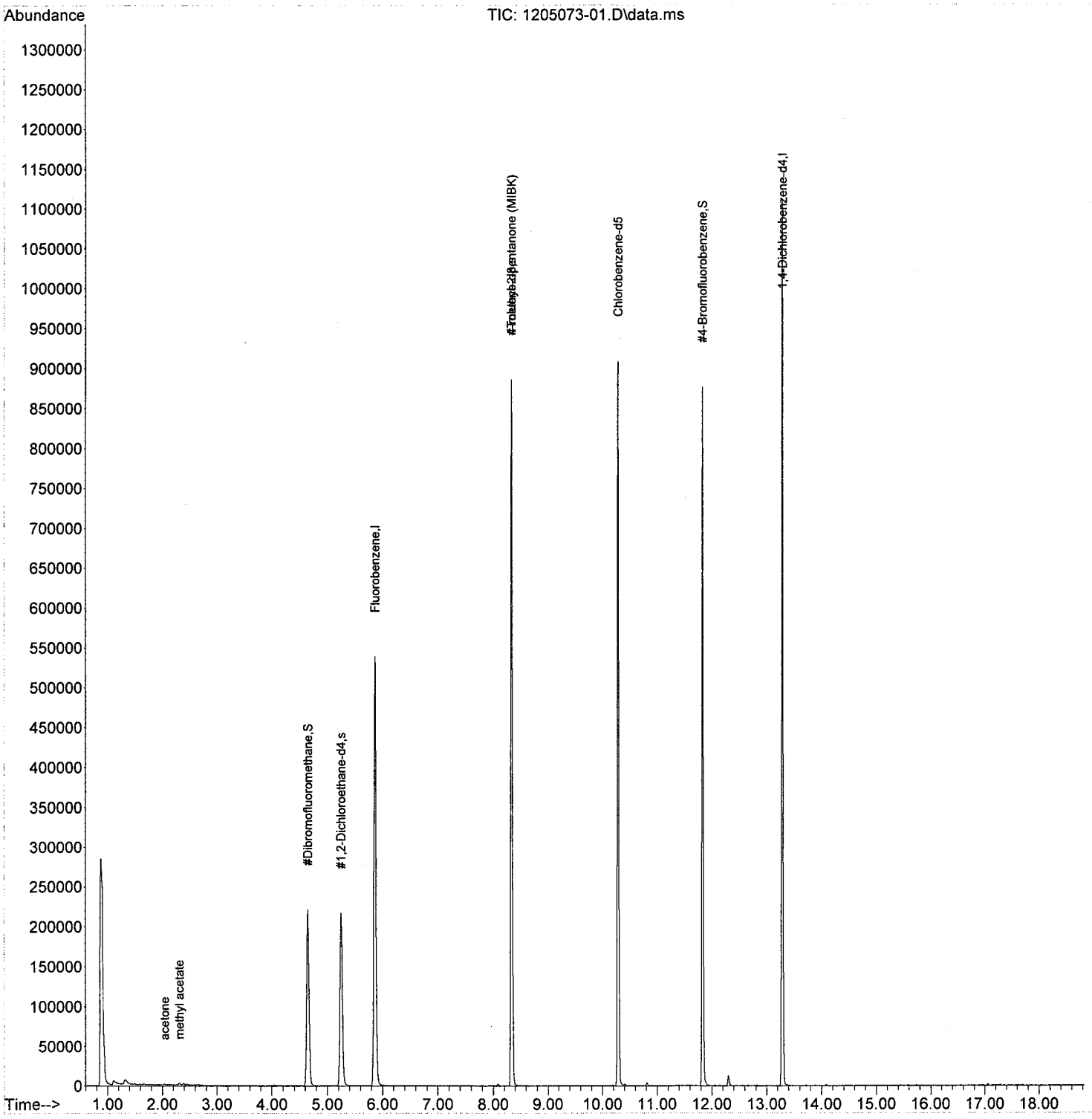
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	629649	5.86	109	5.879	
Chlorobenzene-d5	501397	10.286	105	10.292	
1,4-Dichlorobenzene-d4	304959	13.285	94	13.292	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205073-01.D
Acq On : 10 May 2012 15:05
Operator : DLV
Sample : 1205073-01
Misc : TL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 11 07:56:36 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



00440

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205073-01.D
Acq On : 10 May 2012 15:05
Operator : DLV
Sample : 1205073-01
Misc : TL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 11 07:56:36 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.860	96	629649	40.00	ug/L	-0.02
51) Chlorobenzene-d5	10.286	117	501397	40.00	ug/L	-0.01
66) 1,4-Dichlorobenzene-d4	13.285	152	304959	40.00	ug/L	#-0.01
System Monitoring Compounds						
29) #Dibromofluoromethane	4.647	111	189927	37.20	ug/L	-0.02
Spiked Amount 40.000			Recovery =	93.00%		
37) #1,2-Dichloroethane-d4	5.244	67	121535	39.19	ug/L	-0.02
Spiked Amount 40.000			Recovery =	97.97%		
47) #Toluene-d8	8.335	98	613636	37.17	ug/L	-0.02
Spiked Amount 40.000			Recovery =	92.92%		
65) #4-Bromofluorobenzene	11.828	95	258154	36.84	ug/L	-0.01
Spiked Amount 40.000			Recovery =	92.10%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.		
3) chloromethane	0.000		0	N.D.		
4) vinyl chloride	0.000		0	N.D.		
5) bromomethane	0.000		0	N.D.		
6) chloroethane	0.000		0	N.D.		
7) dichlorofluoromethane	0.000		0	N.D.		
8) trichlorofluoromethane	0.000		0	N.D.		
9) ethyl ether	0.000		0	N.D.		
10) acrolein	0.000		0	N.D.		
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.		
12) 1,1-dichloroethene	0.000		0	N.D.		
13) acetone	2.038	43	2365	1.60	ug/L #	53
14) iodomethane	0.000		0	N.D.		
15) carbon disulfide	0.000		0	N.D.		
16) methyl acetate	2.312	43	4151	1.41	ug/L #	58
17) methylene chloride	0.000		0	N.D.		
18) acrylonitrile	0.000		0	N.D.		
19) trans-1,2-dichloroethene	0.000		0	N.D.		
20) methyl (tert) butyl ether	0.000		0	N.D.		
21) 1,1-dichloroethane	0.000		0	N.D.		
22) vinyl acetate	0.000		0	N.D.		
23) 2,2-dichloropropane	0.000		0	N.D.		
24) cis-1,2-dichloroethene	0.000		0	N.D.		
25) 2-butanone (MEK)	0.000		0	N.D.		
26) bromochloromethane	0.000		0	N.D.		
27) tetrahydrofuran	0.000		0	N.D.		
28) chloroform	0.000		0	N.D.		
30) 1,1,1-trichloroethane	0.000		0	N.D.		
31) cyclohexane	0.000		0	N.D.		
32) carbon tetrachloride	0.000		0	N.D.		
33) 1,1-dichloropropene	0.000		0	N.D.		
34) benzene	0.000		0	N.D.		
35) 1,2-dichloroethane	0.000		0	N.D.		
36) heptane	5.866	57	21733	No Calib		
38) trichloroethene	0.000		0	N.D.		

00441

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205073-01.D
Acq On : 10 May 2012 15:05
Operator : DLV
Sample : 1205073-01
Misc : TL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 11 07:56:36 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

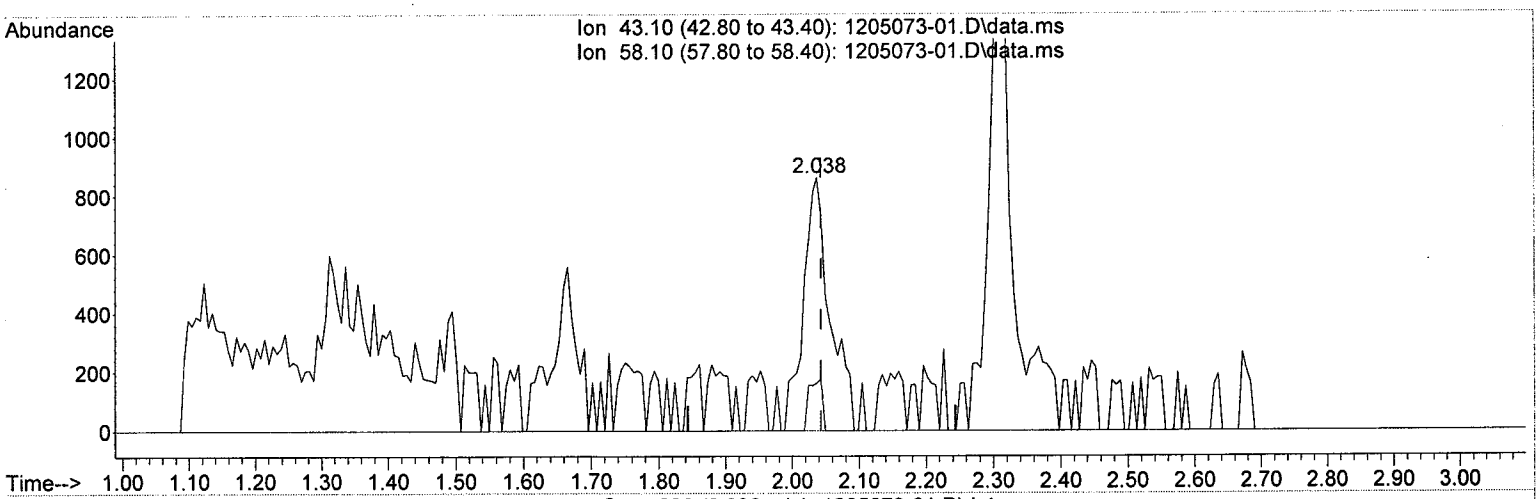
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39)	methylcyclohexane	0.000		0	N.D.		
40)	1,2-dichloropropane	0.000		0	N.D.		
41)	dibromomethane	0.000		0	N.D.		
42)	1,4-dioxane	0.000		0	N.D.		
43)	bromodichloromethane	0.000		0	N.D.		
44)	2-chloroethyl vinyl ether	0.000		0	N.D.		
45)	cis-1,3-dichloropropene	0.000		0	N.D.		
46)	4-methyl-2-pentanone (...	8.335	43	2954	RJ 3.77	ug/L #	1
48)	toluene	0.000		0	N.D.		
49)	trans-1,3-dichloropropene	0.000		0	N.D.		
50)	1,1,2-trichloroethane	0.000		0	N.D.		
52)	tetrachloroethene	0.000		0	N.D.		
53)	1,3-dichloropropane	0.000		0	N.D.		
54)	2-hexanone (MBK)	0.000		0	N.D.		
55)	dibromochloromethane	0.000		0	N.D.		
56)	1,2-dibromoethane	0.000		0	N.D.		
57)	chlorobenzene	0.000		0	N.D.		
58)	1-chlorohexane	0.000		0	N.D.		
59)	1,1,1,2-tetrachloroethane	0.000		0	N.D.		
60)	ethylbenzene	0.000		0	N.D.		
61)	m+p-xylene	0.000		0	N.D.		
62)	o-xylene	0.000		0	N.D.		
63)	styrene	0.000		0	N.D.		
64)	bromoform	0.000		0	N.D.		
67)	isopropylbenzene	0.000		0	N.D.		
68)	bromobenzene	0.000		0	N.D.		
69)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
70)	1,2,3-trichloropropane	0.000		0	N.D.		
71)	1,4-dichloro-2-butene	0.000		0	N.D.		
72)	n-propylbenzene	0.000		0	N.D.		
73)	2-chlorotoluene	0.000		0	N.D.		
74)	1,3,5-trimethylbenzene	0.000		0	N.D.		
75)	4-chlorotoluene	0.000		0	N.D.		
76)	tert-butylbenzene	0.000		0	N.D.		
77)	1,2,4-trimethylbenzene	0.000		0	N.D.		
78)	sec-butylbenzene	0.000		0	N.D.		
79)	1,3-dichlorobenzene	0.000		0	N.D.		
80)	4-isopropyltoluene	0.000		0	N.D.		
81)	1,4-dichlorobenzene	0.000		0	N.D.		
82)	1,2-dichlorobenzene	0.000		0	N.D.		
83)	n-butylbenzene	0.000		0	N.D.		
84)	hexachloroethane	0.000		0	N.D.		
85)	1,2-dibromo-3-chloropr...	0.000		0	N.D.		
86)	1,2,4-trichlorobenzene	0.000		0	N.D.		
87)	hexachlorobutadiene	0.000		0	N.D.		
88)	naphthalene	0.000		0	N.D.		
89)	1,2,3-trichlorobenzene	0.000		0	N.D.		
90)	2-methylnaphthalene	0.000		0	N.D.		

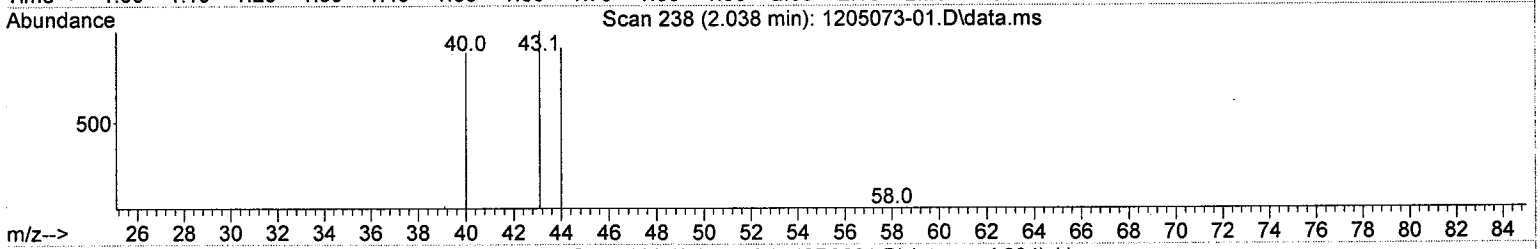
(#) = qualifier out of range (m) = manual integration (+) = signals summed

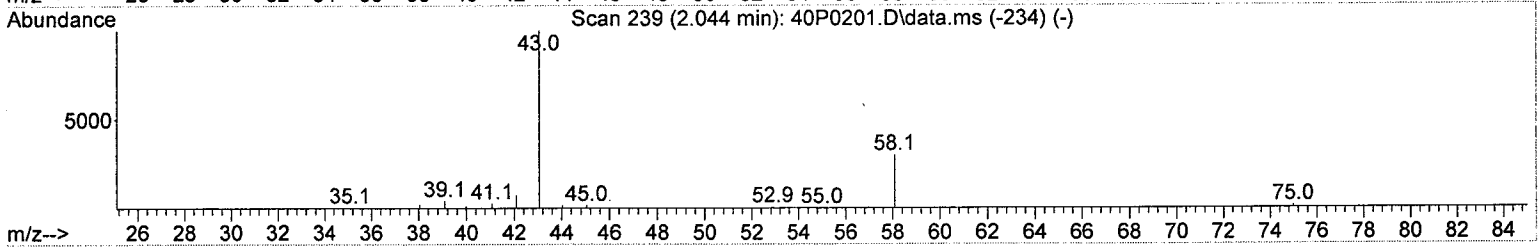
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205073-01.D
Acq On : 10 May 2012 15:05
Operator : DLV
Sample : 1205073-01
Misc : TL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 11 07:56:36 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205073-01.D\data.ms

(13) acetone

2.038min (-0.006) 1.60 ug/L

response 2365

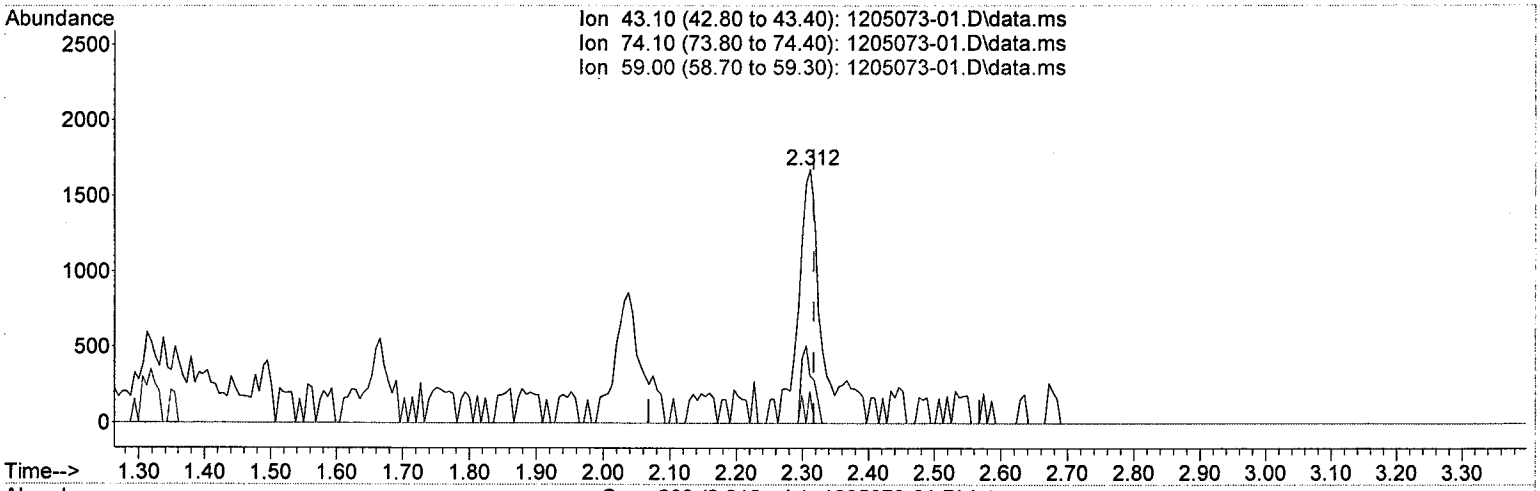
Ion	Exp%	Act%
43.10	100	100
58.10	23.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

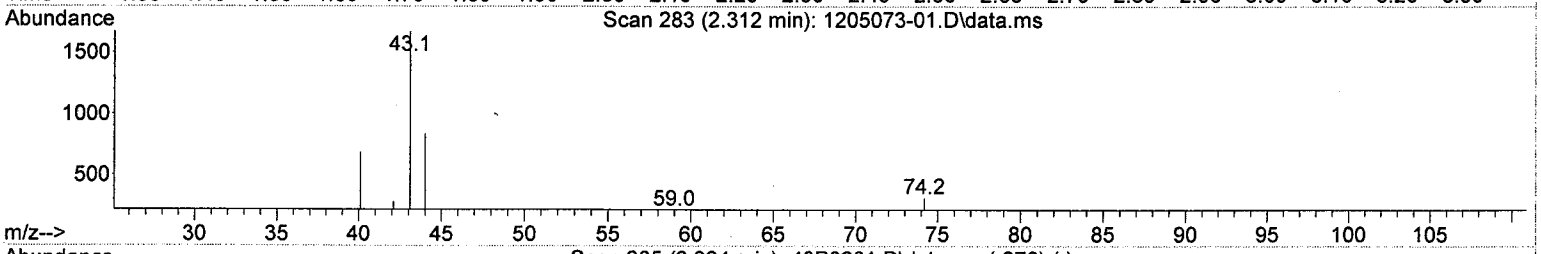
00443

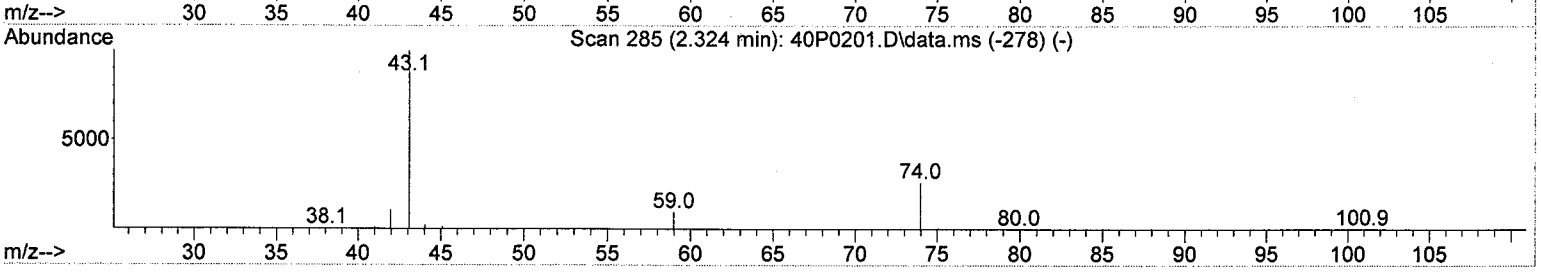
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205073-01.D
Acq On : 10 May 2012 15:05
Operator : DLV
Sample : 1205073-01
Misc : TL
ALS Vial : 16 Sample Multiplier: 1

Quant Time: May 11 07:56:36 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: 1205073-01.D\data.ms

(16) methyl acetate

2.312min (-0.006) 1.41 ug/L

response 4151

Ion	Exp%	Act%
43.10	100	100
74.10	24.00	0.00#
59.00	10.00	0.00
0.00	0.00	0.00

00444

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106036

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205085-01 File ID: 1205085-01.D

Sampled: 05/02/12 13:18 Prepared: 05/10/12 08:00 Analyzed: 05/10/12 15:32

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	2.3	1.1	5.0	J
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.2	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106036

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205085-01 File ID: 1205085-01.D

Sampled: 05/02/12 13:18 Prepared: 05/10/12 08:00 Analyzed: 05/10/12 15:32

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	38.2	96	85 - 118	
1,2-Dichloroethane-d4	40.0	39.8	100	87 - 122	
Toluene-d8	40.0	37.6	94	85 - 113	
4-Bromofluorobenzene	40.0	36.0	90	82 - 110	

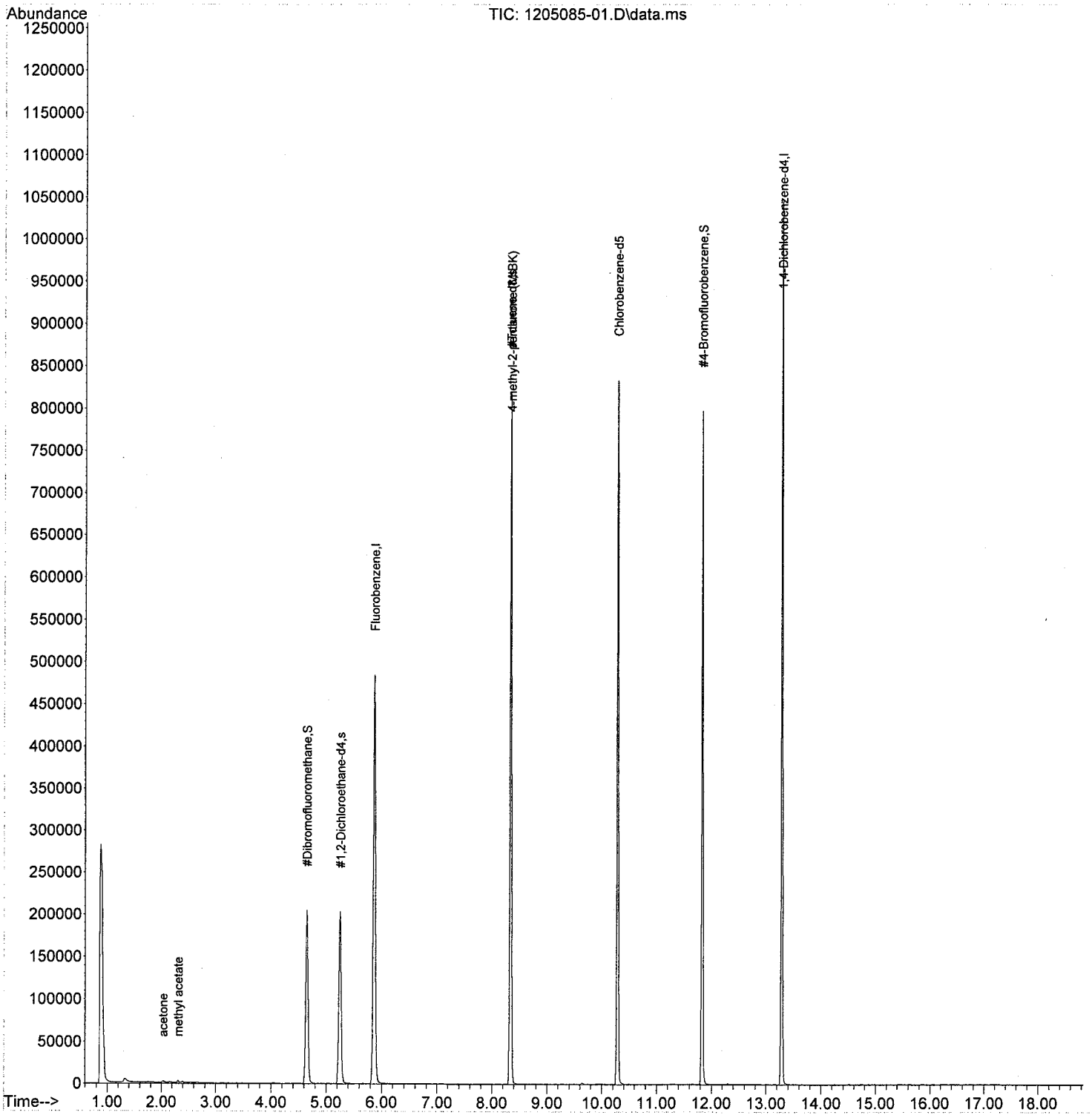
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	571791	5.866	99	5.879	
Chlorobenzene-d5	464880	10.286	97	10.292	
1,4-Dichlorobenzene-d4	279613	13.286	86	13.292	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205085-01.D
Acq On : 10 May 2012 15:32
Operator : DLV
Sample : 1205085-01
Misc : TL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 11 07:56:44 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



00447

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205085-01.D
Acq On : 10 May 2012 15:32
Operator : DLV
Sample : 1205085-01
Misc : TL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 11 07:56:44 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.866	96	571791	40.00	ug/L	-0.01
51) Chlorobenzene-d5	10.286	117	464880	40.00	ug/L	-0.01
66) 1,4-Dichlorobenzene-d4	13.286	152	279613	40.00	ug/L	#-0.01
System Monitoring Compounds						
29) #Dibromofluoromethane	4.647	111	177228	38.23	ug/L	-0.02
Spiked Amount 40.000			Recovery =	95.57%		
37) #1,2-Dichloroethane-d4	5.251	67	112235	39.85	ug/L	-0.02
Spiked Amount 40.000			Recovery =	99.63%		
47) #Toluene-d8	8.335	98	562917	37.55	ug/L	-0.02
Spiked Amount 40.000			Recovery =	93.88%		
65) #4-Bromofluorobenzene	11.829	95	234185	36.04	ug/L	-0.01
Spiked Amount 40.000			Recovery =	90.10%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.		
3) chloromethane	0.000		0	N.D.		
4) vinyl chloride	0.000		0	N.D.		
5) bromomethane	0.000		0	N.D.		
6) chloroethane	0.000		0	N.D.		
7) dichlorofluoromethane	0.000		0	N.D.		
8) trichlorofluoromethane	0.000		0	N.D.		
9) ethyl ether	0.000		0	N.D.		
10) acrolein	0.000		0	N.D.		
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.		
12) 1,1-dichloroethene	0.000		0	N.D.		
13) acetone	2.032	43	3051	2.28	ug/L #	53
14) iodomethane	0.000		0	N.D.		
15) carbon disulfide	0.000		0	N.D.		
16) methyl acetate	2.312	43	3117	1.17	ug/L #	58
17) methylene chloride	0.000		0	N.D.		
18) acrylonitrile	0.000		0	N.D.		
19) trans-1,2-dichloroethene	0.000		0	N.D.		
20) methyl (tert) butyl ether	0.000		0	N.D.		
21) 1,1-dichloroethane	0.000		0	N.D.		
22) vinyl acetate	0.000		0	N.D.		
23) 2,2-dichloropropane	0.000		0	N.D.		
24) cis-1,2-dichloroethene	0.000		0	N.D.		
25) 2-butanone (MEK)	0.000		0	N.D.		
26) bromochloromethane	0.000		0	N.D.		
27) tetrahydrofuran	0.000		0	N.D.		
28) chloroform	0.000		0	N.D.		
30) 1,1,1-trichloroethane	0.000		0	N.D.		
31) cyclohexane	0.000		0	N.D.		
32) carbon tetrachloride	0.000		0	N.D.		
33) 1,1-dichloropropene	0.000		0	N.D.		
34) benzene	0.000		0	N.D.		
35) 1,2-dichloroethane	0.000		0	N.D.		
36) heptane	5.860	57	19767	No Calib		
38) trichloroethene	0.000		0	N.D.		

00448

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205085-01.D
Acq On : 10 May 2012 15:32
Operator : DLV
Sample : 1205085-01
Misc : TL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 11 07:56:44 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

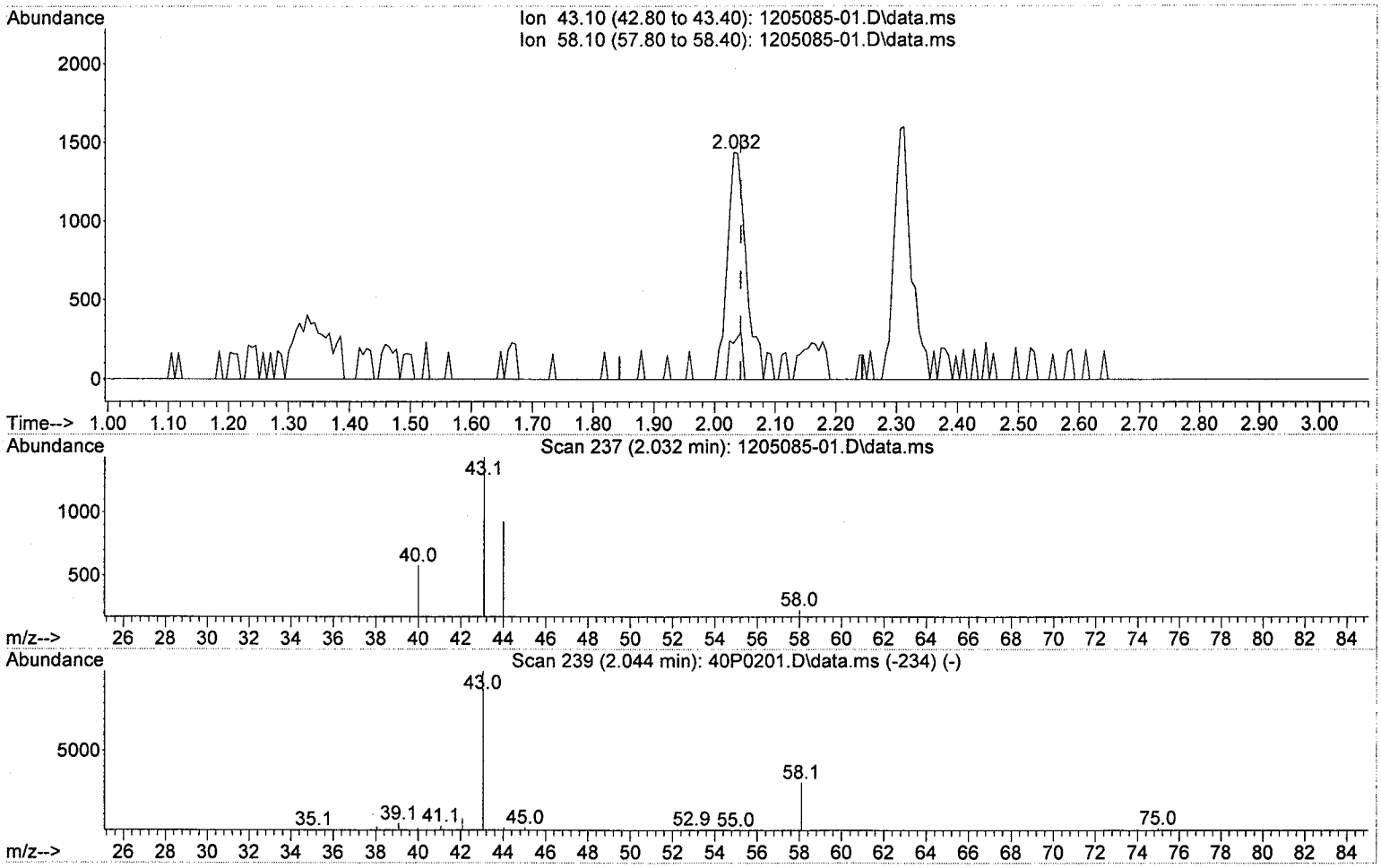
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.		
40) 1,2-dichloropropane	0.000		0	N.D.		
41) dibromomethane	0.000		0	N.D.		
42) 1,4-dioxane	0.000		0	N.D.		
43) bromodichloromethane	0.000		0	N.D.		
44) 2-chloroethyl vinyl ether	0.000		0	N.D.		
45) cis-1,3-dichloropropene	0.000		0	N.D.		
46) 4-methyl-2-pentanone (...	8.341	43	2516	~~N.D.~~ 72	ug/L	# 1
48) toluene	0.000		0	N.D.		
49) trans-1,3-dichloropropene	0.000		0	N.D.		
50) 1,1,2-trichloroethane	0.000		0	N.D.		
52) tetrachloroethene	0.000		0	N.D.		
53) 1,3-dichloropropane	0.000		0	N.D.		
54) 2-hexanone (MBK)	0.000		0	N.D.		
55) dibromochloromethane	0.000		0	N.D.		
56) 1,2-dibromoethane	0.000		0	N.D.		
57) chlorobenzene	0.000		0	N.D.		
58) 1-chlorohexane	0.000		0	N.D.		
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
60) ethylbenzene	0.000		0	N.D.		
61) m+p-xylene	0.000		0	N.D.		
62) o-xylene	0.000		0	N.D.		
63) styrene	0.000		0	N.D.		
64) bromoform	0.000		0	N.D.		
67) isopropylbenzene	0.000		0	N.D.		
68) bromobenzene	0.000		0	N.D.		
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
70) 1,2,3-trichloropropane	0.000		0	N.D.		
71) 1,4-dichloro-2-butene	0.000		0	N.D.		
72) n-propylbenzene	0.000		0	N.D.		
73) 2-chlorotoluene	0.000		0	N.D.		
74) 1,3,5-trimethylbenzene	0.000		0	N.D.		
75) 4-chlorotoluene	0.000		0	N.D.		
76) tert-butylbenzene	0.000		0	N.D.		
77) 1,2,4-trimethylbenzene	0.000		0	N.D.		
78) sec-butylbenzene	0.000		0	N.D.		
79) 1,3-dichlorobenzene	0.000		0	N.D.		
80) 4-isopropyltoluene	0.000		0	N.D.		
81) 1,4-dichlorobenzene	0.000		0	N.D.		
82) 1,2-dichlorobenzene	0.000		0	N.D.		
83) n-butylbenzene	0.000		0	N.D.		
84) hexachloroethane	0.000		0	N.D.		
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
86) 1,2,4-trichlorobenzene	0.000		0	N.D.		
87) hexachlorobutadiene	0.000		0	N.D.		
88) naphthalene	0.000		0	N.D.		
89) 1,2,3-trichlorobenzene	0.000		0	N.D.		
90) 2-methylnaphthalene	0.000		0	N.D.		

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205085-01.D
Acq On : 10 May 2012 15:32
Operator : DLV
Sample : 1205085-01
Misc : TL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 11 07:56:44 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



TIC: 1205085-01.D\data.ms

(13) acetone

2.032min (-0.012) 2.28 ug/L

response 3051

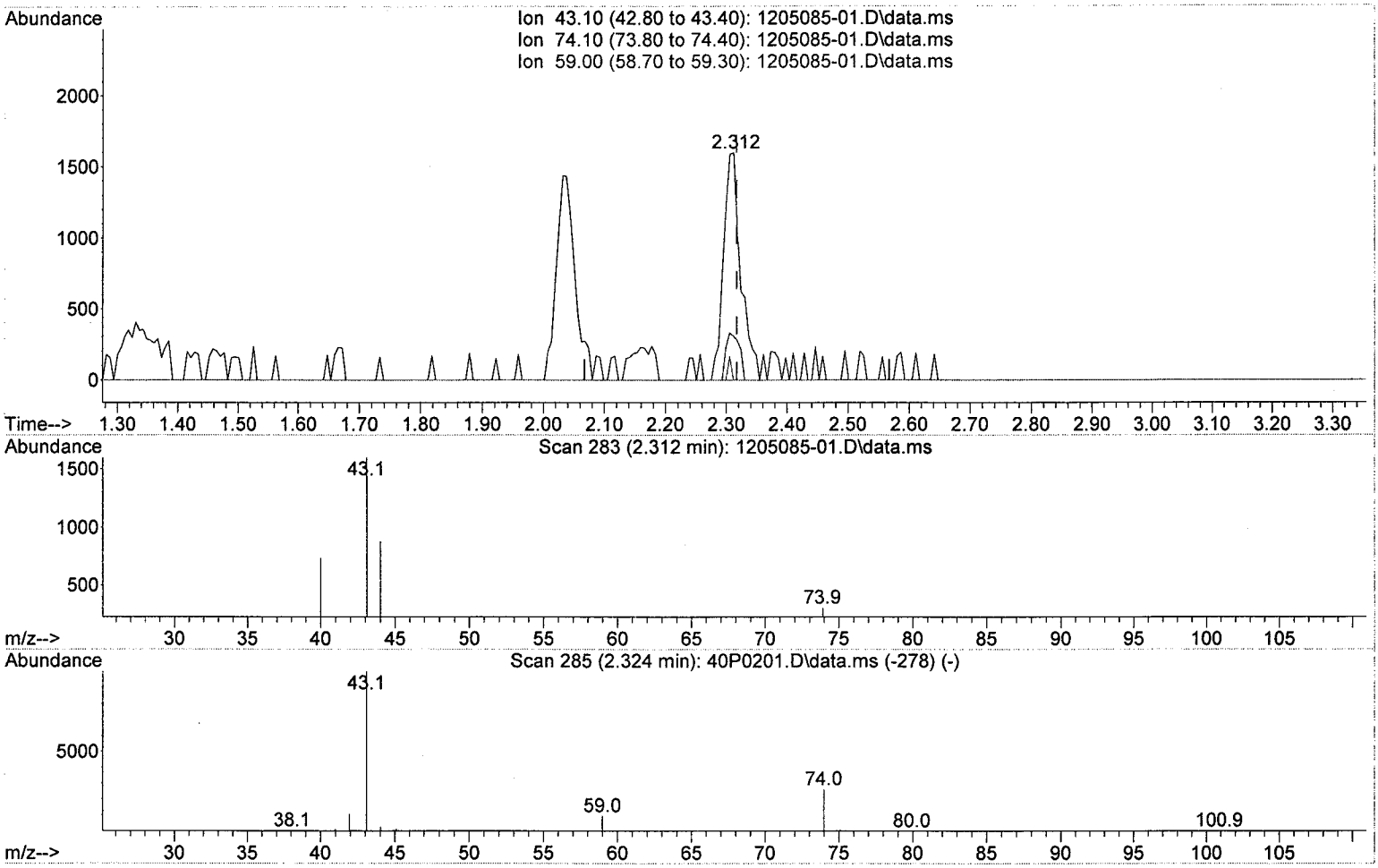
Ion	Exp%	Act%
43.10	100	100
58.10	23.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00450

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205085-01.D
Acq On : 10 May 2012 15:32
Operator : DLV
Sample : 1205085-01
Misc : TL
ALS Vial : 17 Sample Multiplier: 1

Quant Time: May 11 07:56:44 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



TIC: 1205085-01.D\data.ms

(16) methyl acetate

2.312min (-0.006) 1.17 ug/L

response 3117

Ion	Exp%	Act%
43.10	100	100
74.10	24.00	0.00#
59.00	10.00	0.00
0.00	0.00	0.00

00451

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106037

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205085-02 File ID: 1205085-02.D

Sampled: 05/02/12 10:44 Prepared: 05/10/12 08:00 Analyzed: 05/10/12 16:00

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
67-64-1	Acetone	1	1.7	1.1	5.0	**J**
71-43-2	Benzene	1	1.0	0.11	1.0	U
75-27-4	Bromodichloromethane	1	1.0	0.13	1.0	U
75-25-2	Bromoform	1	1.0	0.26	1.0	U
74-83-9	Bromomethane	1	1.0	0.21	1.0	U
75-15-0	Carbon Disulfide	1	5.0	0.23	5.0	U
56-23-5	Carbon Tetrachloride	1	1.0	0.26	1.0	U
108-90-7	Chlorobenzene	1	1.0	0.17	1.0	U
75-00-3	Chloroethane	1	1.0	0.14	1.0	U
67-66-3	Chloroform	1	1.0	0.098	1.0	U
74-87-3	Chloromethane	1	1.0	0.29	1.0	U
110-82-7	Cyclohexane	1	5.0	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1	1.0	0.13	1.0	U
124-48-1	Dibromochloromethane	1	1.0	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1	1.0	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	1	1.0	0.24	1.0	U
541-73-1	1,3-Dichlorobenzene	1	1.0	0.24	1.0	U
106-46-7	1,4-Dichlorobenzene	1	1.0	0.25	1.0	U
75-71-8	Dichlorodifluoromethane	1	1.0	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1	1.0	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1	1.0	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1	1.0	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1	1.0	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1	1.0	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1	1.0	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1	1.0	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1	1.0	0.19	1.0	U
100-41-4	Ethylbenzene	1	1.0	0.21	1.0	U
591-78-6	2-Hexanone	1	5.0	0.49	5.0	U
98-82-8	Isopropylbenzene	1	1.0	0.22	1.0	U
79-20-9	Methyl Acetate	1	1.3	0.42	5.0	**J**
1634-04-4	Methyl tert-Butyl Ether	1	1.0	0.19	1.0	U
108-87-2	Methylcyclohexane	1	5.0	0.37	5.0	U
75-09-2	Methylene Chloride	1	1.0	0.24	1.0	U

ORGANIC ANALYSIS DATA SHEET
USEPA-8260B

106037

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205085-02 File ID: 1205085-02.D

Sampled: 05/02/12 10:44 Prepared: 05/10/12 08:00 Analyzed: 05/10/12 16:00

Solids: Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Dilution	CONC. (ug/L)	MDL	MRL	Q
78-93-3	2-Butanone (MEK)	1	5.0	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	1	5.0	0.40	5.0	U
100-42-5	Styrene	1	1.0	0.20	1.0	U
79-34-5	1,1,2,2-Tetrachloroethane	1	1.0	0.26	1.0	U
127-18-4	Tetrachloroethene	1	1.0	0.23	1.0	U
108-88-3	Toluene	1	1.0	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1	1.0	0.13	1.0	U
71-55-6	1,1,1-Trichloroethane	1	1.0	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1	1.0	0.20	1.0	U
79-01-6	Trichloroethene	1	1.0	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1	1.0	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	1.0	0.24	1.0	U
75-01-4	Vinyl Chloride	1	1.0	0.21	1.0	U
1330-20-7	Xylene (Total)	1	3.0	0.39	3.0	U

System Monitoring Compound	ADDED (ug/L)	CONC (ug/L)	% REC.	QC Limits	Q
Dibromofluoromethane	40.0	38.9	97	85 - 118	
1,2-Dichloroethane-d4	40.0	41.1	103	87 - 122	
Toluene-d8	40.0	37.7	94	85 - 113	
4-Bromofluorobenzene	40.0	36.2	90	82 - 110	

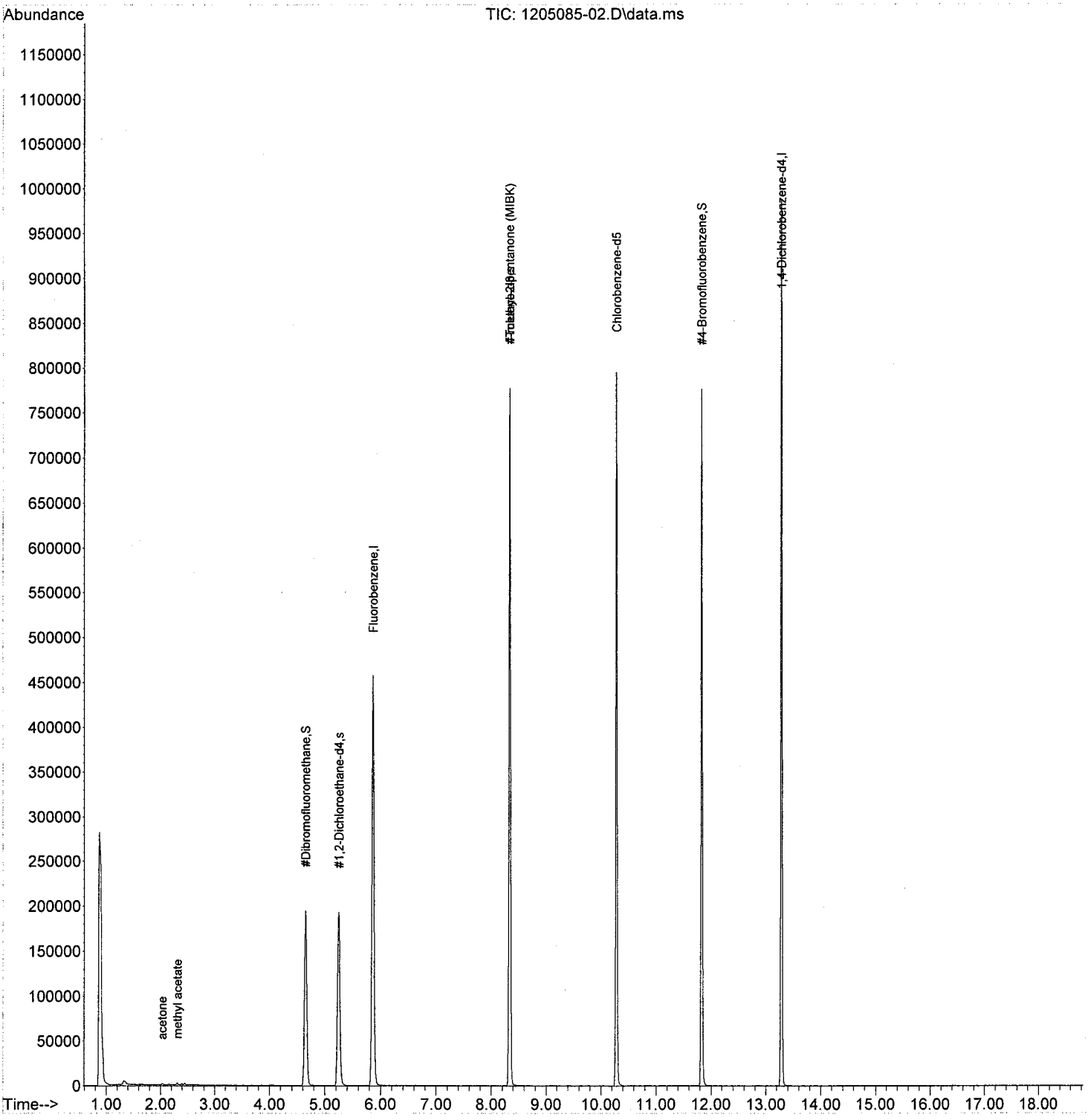
Internal Standard	Area	RT	% REC.	Ref. RT	Q
Fluorobenzene	536086	5.866	93	5.879	
Chlorobenzene-d5	437585	10.286	92	10.292	
1,4-Dichlorobenzene-d4	262909	13.286	81	13.292	

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205085-02.D
Acq On : 10 May 2012 16:00
Operator : DLV
Sample : 1205085-02
Misc : TL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 11 07:56:49 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



00454

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205085-02.D
Acq On : 10 May 2012 16:00
Operator : DLV
Sample : 1205085-02
Misc : TL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 11 07:56:49 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.866	96	536086	40.00	ug/L	-0.01
51) Chlorobenzene-d5	10.286	117	437585	40.00	ug/L	-0.01
66) 1,4-Dichlorobenzene-d4	13.286	152	262909	40.00	ug/L	#-0.01
System Monitoring Compounds						
29) #Dibromofluoromethane	4.647	111	169112	38.91	ug/L	-0.02
Spiked Amount 40.000			Recovery = 97.27%			
37) #1,2-Dichloroethane-d4	5.251	67	108571	41.12	ug/L	-0.02
Spiked Amount 40.000			Recovery = 102.80%			
47) #Toluene-d8	8.335	98	530473	37.74	ug/L	-0.02
Spiked Amount 40.000			Recovery = 94.35%			
65) #4-Bromofluorobenzene	11.829	95	221136	36.15	ug/L	-0.01
Spiked Amount 40.000			Recovery = 90.38%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.		
3) chloromethane	0.000		0	N.D.		
4) vinyl chloride	0.000		0	N.D.		
5) bromomethane	0.000		0	N.D.		
6) chloroethane	0.000		0	N.D.		
7) dichlorofluoromethane	0.000		0	N.D.		
8) trichlorofluoromethane	0.000		0	N.D.		
9) ethyl ether	0.000		0	N.D.		
10) acrolein	0.000		0	N.D.		
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.		
12) 1,1-dichloroethene	0.000		0	N.D.		
13) acetone	2.032	43	2172	1.73	ug/L #	53
14) iodomethane	0.000		0	N.D.		
15) carbon disulfide	0.000		0	N.D.		
16) methyl acetate	2.312	43	3301	1.32	ug/L #	58
17) methylene chloride	0.000		0	N.D.		
18) acrylonitrile	0.000		0	N.D.		
19) trans-1,2-dichloroethene	0.000		0	N.D.		
20) methyl (tert) butyl ether	0.000		0	N.D.		
21) 1,1-dichloroethane	0.000		0	N.D.		
22) vinyl acetate	0.000		0	N.D.		
23) 2,2-dichloropropane	0.000		0	N.D.		
24) cis-1,2-dichloroethene	0.000		0	N.D.		
25) 2-butanone (MEK)	0.000		0	N.D.		
26) bromochloromethane	0.000		0	N.D.		
27) tetrahydrofuran	0.000		0	N.D.		
28) chloroform	0.000		0	N.D.		
30) 1,1,1-trichloroethane	0.000		0	N.D.		
31) cyclohexane	0.000		0	N.D.		
32) carbon tetrachloride	0.000		0	N.D.		
33) 1,1-dichloropropene	0.000		0	N.D.		
34) benzene	0.000		0	N.D.		
35) 1,2-dichloroethane	0.000		0	N.D.		
36) heptane	5.866	57	19090	No Calib		
38) trichloroethene	0.000		0	N.D.		

00455

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205085-02.D
Acq On : 10 May 2012 16:00
Operator : DLV
Sample : 1205085-02
Misc : TL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 11 07:56:49 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

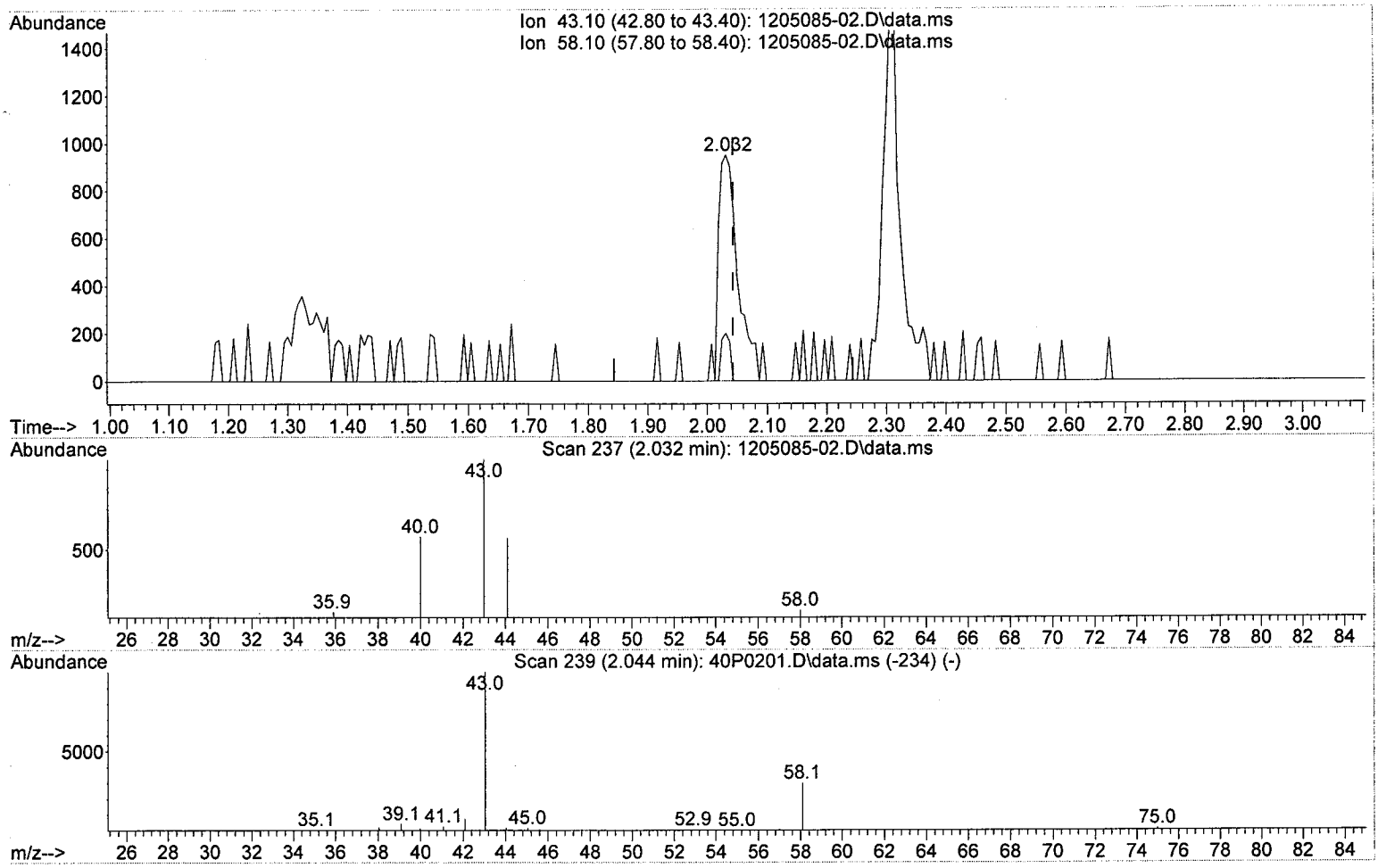
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.		
40) 1,2-dichloropropane	0.000		0	N.D.		
41) dibromomethane	0.000		0	N.D.		
42) 1,4-dioxane	0.000		0	N.D.		
43) bromodichloromethane	0.000		0	N.D.		
44) 2-chloroethyl vinyl ether	0.000		0	N.D.		
45) cis-1,3-dichloropropene	0.000		0	N.D.		
46) 4-methyl-2-pentanone (...	8.335	43	2359	M 3.72	ug/L #	1
48) toluene	0.000		0	N.D.		
49) trans-1,3-dichloropropene	0.000		0	N.D.		
50) 1,1,2-trichloroethane	0.000		0	N.D.		
52) tetrachloroethene	0.000		0	N.D.		
53) 1,3-dichloropropane	0.000		0	N.D.		
54) 2-hexanone (MBK)	0.000		0	N.D.		
55) dibromochloromethane	0.000		0	N.D.		
56) 1,2-dibromoethane	0.000		0	N.D.		
57) chlorobenzene	0.000		0	N.D.		
58) 1-chlorohexane	0.000		0	N.D.		
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.		
60) ethylbenzene	0.000		0	N.D.		
61) m+p-xylene	0.000		0	N.D.		
62) o-xylene	0.000		0	N.D.		
63) styrene	0.000		0	N.D.		
64) bromoform	0.000		0	N.D.		
67) isopropylbenzene	0.000		0	N.D.		
68) bromobenzene	0.000		0	N.D.		
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
70) 1,2,3-trichloropropane	0.000		0	N.D.		
71) 1,4-dichloro-2-butene	0.000		0	N.D.		
72) n-propylbenzene	0.000		0	N.D.		
73) 2-chlorotoluene	0.000		0	N.D.		
74) 1,3,5-trimethylbenzene	0.000		0	N.D.		
75) 4-chlorotoluene	0.000		0	N.D.		
76) tert-butylbenzene	0.000		0	N.D.		
77) 1,2,4-trimethylbenzene	0.000		0	N.D.		
78) sec-butylbenzene	0.000		0	N.D.		
79) 1,3-dichlorobenzene	0.000		0	N.D.		
80) 4-isopropyltoluene	0.000		0	N.D.		
81) 1,4-dichlorobenzene	0.000		0	N.D.		
82) 1,2-dichlorobenzene	0.000		0	N.D.		
83) n-butylbenzene	0.000		0	N.D.		
84) hexachloroethane	0.000		0	N.D.		
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.		
86) 1,2,4-trichlorobenzene	0.000		0	N.D.		
87) hexachlorobutadiene	0.000		0	N.D.		
88) naphthalene	0.000		0	N.D.		
89) 1,2,3-trichlorobenzene	0.000		0	N.D.		
90) 2-methylnaphthalene	0.000		0	N.D.		

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

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205085-02.D
Acq On : 10 May 2012 16:00
Operator : DLV
Sample : 1205085-02
Misc : TL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 11 07:56:49 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



TIC: 1205085-02.D\data.ms

(13) acetone

2.032min (-0.012) 1.73 ug/L

response 2172

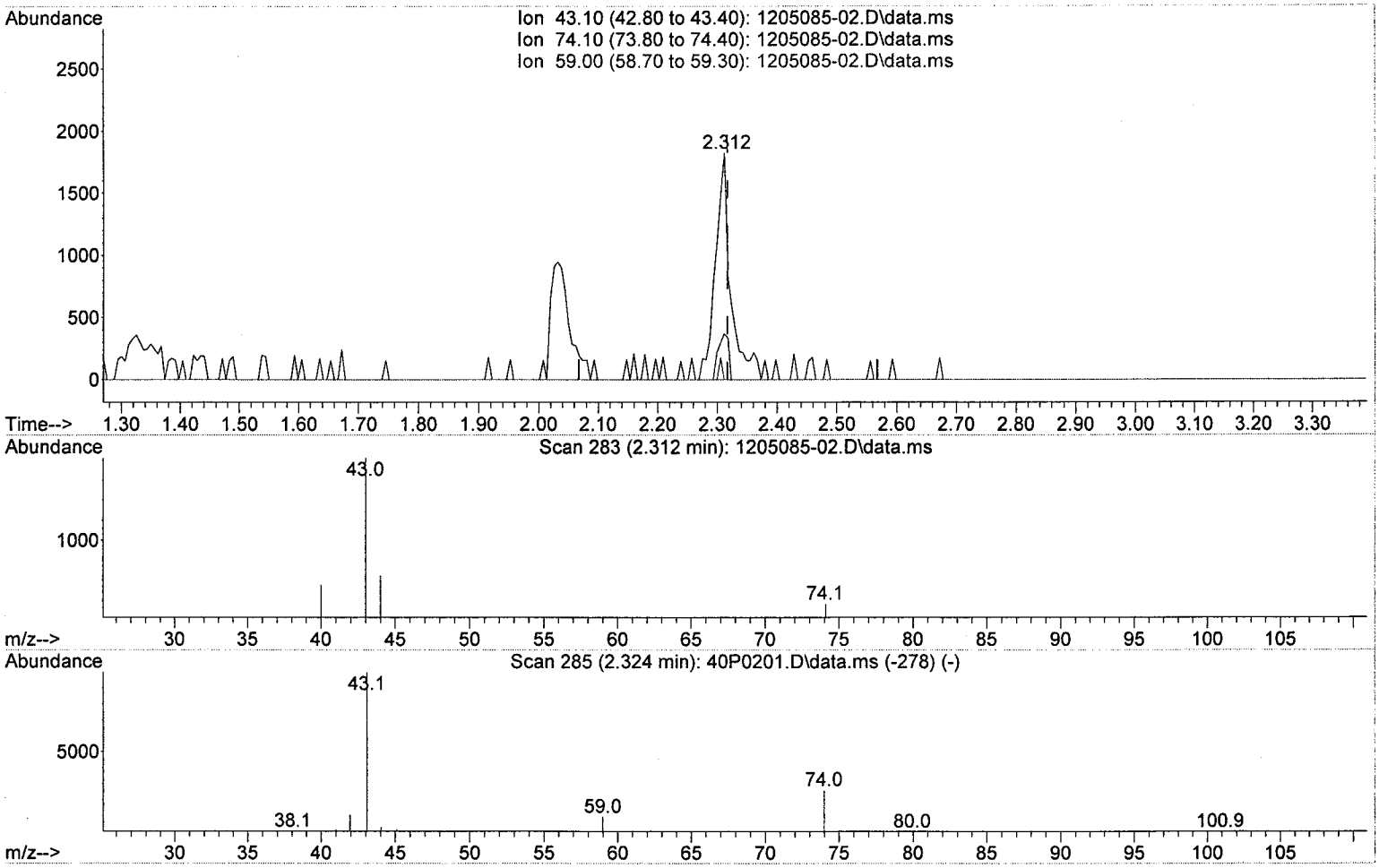
Ion	Exp%	Act%
43.10	100	100
58.10	23.00	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00457

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 1205085-02.D
Acq On : 10 May 2012 16:00
Operator : DLV
Sample : 1205085-02
Misc : TL
ALS Vial : 18 Sample Multiplier: 1

Quant Time: May 11 07:56:49 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



TIC: 1205085-02.D\data.ms

(16) methyl acetate

2.312min (-0.006) 1.32 ug/L

response 3301

Ion	Exp%	Act%
43.10	100	100
74.10	24.00	0.00#
59.00	10.00	0.00
0.00	0.00	0.00

00458

INITIAL CALIBRATION DATA
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2D27003

SDG: KNM050112

Project: KNM

Calibration Date: 04/24/12 00:00

Instrument: 328

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	1	~~0.284515~~	5	0.1146549	10	0.1048277	20	9.355246E-02	40	0.0833224	100	8.535216E-02
Benzene	1	1.041961	5	1.107199	10	0.9923027	20	1.074264	40	1.116966	100	1.135414
Bromodichloromethane	1	0.4225033	5	0.4524977	10	0.4195047	20	0.4537321	40	0.4819197	100	0.5058831
Bromoform	1	0.188325	5	0.2212192	10	0.2087192	20	0.2447732	40	0.2705723	100	0.2997229
Bromomethane	1	0.302222	5	0.2692149	10	0.2445593	20	0.2382889	40	0.2270895	100	0.2333724
Carbon Disulfide	1	0.9007063	5	0.7502348	10	0.7584809	20	0.7828176	40	0.76486	100	0.8274163
Carbon Tetrachloride	1	0.5137888	5	0.6052058	10	0.5420308	20	0.5977899	40	0.6257923	100	0.6350408
Chlorobenzene	1	0.9990548	5	1.046638	10	0.9433506	20	0.9895662	40	1.022957	100	1.041924
Chloroethane	1	0.2110511	5	0.2261014	10	0.1955455	20	0.2074864	40	0.2119053	100	0.2104693
Chloroform	1	0.6420354	5	0.6633707	10	0.5869356	20	0.6253159	40	0.6440937	100	0.6550729
Chloromethane	1	0.2834835	5	0.2962862	10	0.2596383	20	0.2766585	40	0.2802585	100	0.2733234
Cyclohexane	1	0.306004	5	0.391773	10	0.359986	20	0.3984593	40	0.42737	100	0.4366907
1,2-Dibromo-3-chloropropane	1	7.589733E-02	5	8.794156E-02	10	8.765565E-02	20	0.106305	40	0.1208632	100	0.1268264
Dibromochloromethane	1	0.2957531	5	0.3612863	10	0.3333572	20	0.3775064	40	0.4016401	100	0.4350237
1,2-Dibromoethane	1	0.2476451	5	0.2677847	10	0.2534527	20	0.2793842	40	0.2883447	100	0.2997142
1,2-Dichlorobenzene	1	1.118783	5	1.207425	10	1.097773	20	1.188048	40	1.250542	100	1.320163
1,3-Dichlorobenzene	1	1.313044	5	1.375183	10	1.226708	20	1.3138	40	1.361924	100	1.420679
1,4-Dichlorobenzene	1	1.570553	5	1.407365	10	1.247708	20	1.346122	40	1.369717	100	1.427025
Dichlorodifluoromethane	1	0.4443362	5	0.4816332	10	0.4009037	20	0.417486	40	0.4206961	100	0.4121773
1,1-Dichloroethane	1	0.5229575	5	0.5657253	10	0.5161699	20	0.547132	40	0.5677386	100	0.569071
1,2-Dichloroethane	1	0.5308081	5	0.5590253	10	0.5074481	20	0.5429941	40	0.5555918	100	0.5697947
1,1-Dichloroethene	1	0.2985545	5	0.3149	10	0.2756366	20	0.2977978	40	0.3072474	100	0.3084798
cis-1,2-Dichloroethene	1	0.2882398	5	0.3242776	10	0.2940991	20	0.3178603	40	0.3334938	100	0.3403313
trans-1,2-Dichloroethene	1	0.3290976	5	0.3462767	10	0.3063262	20	0.3287202	40	0.3353533	100	0.3323534
1,2-Dichloropropane	1	0.2216524	5	0.2424267	10	0.2234996	20	0.2328071	40	0.2468041	100	0.254387
cis-1,3-Dichloropropene	1	0.3052591	5	0.3776299	10	0.3641891	20	0.4182656	40	0.4489846	100	0.4861534
trans-1,3-Dichloropropene	1	0.3389539	5	0.3787977	10	0.3616141	20	0.4221773	40	0.466534	100	0.5140927
Ethylbenzene	1	1.433786	5	1.728469	10	1.5967	20	1.730257	40	1.801127	100	1.845614
2-Hexanone	1	~~6.636029E-02~~	5	8.901449E-02	10	0.1114162	20	0.1339292	40	0.1449721	100	0.1612702
Isopropylbenzene	1	1.74855	5	2.291764	10	2.152059	20	2.408265	40	2.532005	100	2.62384
Methyl Acetate	1	~~0.3657149~~	5	0.2143528	10	0.1833627	20	0.1855457	40	0.1866258	100	0.1775499

INITIAL CALIBRATION DATA
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Calibration: 2D27003

SDG: KNM050112
Project: KNM
Calibration Date: 04/24/12 00:00
Instrument: 328

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl tert-Butyl Ether	1	0.7014598	5	0.8396586	10	0.7392763	20	0.8310386	40	0.8630718	100	0.8950336
Methylcyclohexane	1	0.3019928	5	0.3906524	10	0.3611268	20	0.4078146	40	0.4350554	100	0.4632597
Methylene Chloride	1	0.5153933	5	0.4060105	10	0.3494479	20	0.364721	40	0.3669794	100	0.3717709
2-Butanone (MEK)	1	8.658654E-02	5	8.462288E-02	10	8.716262E-02	20	9.201778E-02	40	9.102269E-02	100	9.780875E-02
4-Methyl-2-pentanone (MIBK)	1	~~0.1041789~~	5	0.119562	10	0.1441174	20	0.1734782	40	0.1858631	100	0.2032905
Styrene	1	0.7574069	5	1.040086	10	0.9920052	20	1.087132	40	1.13543	100	1.198277
1,1,2,2-Tetrachloroethane	1	0.4318919	5	0.4937456	10	0.4452937	20	0.4842883	40	0.5038364	100	0.5131528
Tetrachloroethene	1	0.4995926	5	0.5094541	10	0.4607132	20	0.4946118	40	0.5117876	100	0.5101294
Toluene	1	1.242124	5	1.263669	10	1.140219	20	1.239327	40	1.290358	100	1.312105
1,2,4-Trichlorobenzene	1	0.6252494	5	0.6186731	10	0.5965218	20	0.67026	40	0.71786	100	0.7808223
1,1,1-Trichloroethane	1	0.599172	5	0.654748	10	0.5796203	20	0.6343167	40	0.6611333	100	0.6669804
1,1,2-Trichloroethane	1	0.1717978	5	0.1876	10	0.1720991	20	0.1843163	40	0.1921907	100	0.2006998
Trichloroethene	1	0.3563171	5	0.3674737	10	0.3289088	20	0.3577973	40	0.3756682	100	0.3789063
Trichlorofluoromethane	1	0.7032363	5	0.8107117	10	0.7058622	20	0.7452931	40	0.7563604	100	0.7376206
1,1,2-Trichloro-1,2,2-trifluoro	1	0.3050299	5	0.3493436	10	0.3079986	20	0.3262969	40	0.3297627	100	0.3247658
Vinyl Chloride	1	0.3339685	5	0.336734	10	0.2975324	20	0.3153797	40	0.3239706	100	0.3219734
Xylene (Total)	3	0.5080669	15	0.6329581	30	0.5944256	60	0.6504149	120	0.6785926	300	0.6991699
Dibromofluoromethane	40	0.3250505	40	0.3267164	40	0.3223868	40	0.3251139	40	0.3264589	40	0.3227948
1,2-Dichloroethane-d4	40	0.1967552	40	0.1985966	40	0.1968164	40	0.1982129	40	0.1988659	40	0.1947377
Toluene-d8	40	1.01685	40	1.040055	40	1.04267	40	1.053697	40	1.062521	40	1.06101
4-Bromofluorobenzene	40	0.5409879	40	0.5570834	40	0.5603569	40	0.5622402	40	0.5598866	40	0.5690555

INITIAL CALIBRATION DATA (Continued)

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2D27003

SDG: KNM050112

Project: KNM

Calibration Date: 04/24/12 00:00

Instrument: 328

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Acetone	200	8.085348E-02										
Benzene	200	1.103401										
Bromodichloromethane	200	0.4974814										
Bromoform	200	0.3025308										
Bromomethane	200	0.2332042										
Carbon Disulfide	200	0.8216463										
Carbon Tetrachloride	200	0.6378315										
Chlorobenzene	200	1.007268										
Chloroethane	200	0.2025428										
Chloroform	200	0.6368614										
Chloromethane	200	0.24269										
Cyclohexane	200	0.4264348										
1,2-Dibromo-3-chloropropane	200	0.1289533										
Dibromochloromethane	200	0.4251747										
1,2-Dibromoethane	200	0.2891318										
1,2-Dichlorobenzene	200	1.253993										
1,3-Dichlorobenzene	200	1.350563										
1,4-Dichlorobenzene	200	1.347964										
Dichlorodifluoromethane	200	0.3852326										
1,1-Dichloroethane	200	0.5515246										
1,2-Dichloroethane	200	0.5490671										
1,1-Dichloroethene	200	0.2989496										
cis-1,2-Dichloroethene	200	0.3280266										
trans-1,2-Dichloroethene	200	0.3247407										
1,2-Dichloropropane	200	0.2465945										
cis-1,3-Dichloropropene	200	0.4723252										
trans-1,3-Dichloropropene	200	0.5114991										
Ethylbenzene	200	1.815359										
2-Hexanone	200	0.1591206										
Isopropylbenzene	200	2.54751										
Methyl Acetate	200	0.1737579										

INITIAL CALIBRATION DATA (Continued)

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2D27003

SDG: KNM050112

Project: KNM

Calibration Date: 04/24/12 00:00

Instrument: 328

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methyl tert-Butyl Ether	200	0.8726121										
Methylcyclohexane	200	0.4392345										
Methylene Chloride	200	0.3528787										
2-Butanone (MEK)	200	9.399364E-02										
4-Methyl-2-pentanone (MIBK)	200	0.2032225										
Styrene	200	1.159998										
1,1,2,2-Tetrachloroethane	200	0.4964087										
Tetrachloroethene	200	0.4949835										
Toluene	200	1.293485										
1,2,4-Trichlorobenzene	200	0.7510311										
1,1,1-Trichloroethane	200	0.6653258										
1,1,2-Trichloroethane	200	0.1930544										
Trichloroethene	200	0.3724855										
Trichlorofluoromethane	200	0.7202163										
1,1,2-Trichloro-1,2,2-trifluoroe	200	0.3186845										
Vinyl Chloride	200	0.3003405										
Xylene (Total)	600	0.6828314										
Dibromofluoromethane	40	0.3216236										
1,2-Dichloroethane-d4	40	0.1951105										
Toluene-d8	40	1.064884										
4-Bromofluorobenzene	40	0.5640854										

INITIAL CALIBRATION DATA (Continued)

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2D27003

SDG: KNM050112

Project: KNM

Calibration Date: 04/24/12 00:00

Instrument: 328

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Acetone	9.376052E-02	14.35168	2.042	0.1510573			15	
Benzene	1.081644	4.60351	5.343714	5.588859E-02			15	
Bromodichloromethane	0.4619317	7.449995	7.317	1.640709E-02			15	
Bromoform	0.2479804	18.02678	11.402	1.156904E-02	0.99959		SPCC (0.1)	
Bromomethane	0.2497073	10.77795	1.384571	0.1806123			15	
Carbon Disulfide	0.8008803	6.663311	2.16	1.332006E-02			15	
Carbon Tetrachloride	0.5939257	8.101328	4.945	8.849686E-02			15	
Chlorobenzene	1.007251	3.501505	10.32986	1.361031E-02			SPCC (0.3)	
Chloroethane	0.2093003	4.49745	1.451571	0.1728194			15	
Chloroform	0.6362408	3.922334	4.390143	9.590403E-02			CCC (30)	
Chloromethane	0.2731912	6.366964	1.130286	0.226951			SPCC (0.1)	
Cyclohexane	0.3923883	11.81459	4.725143	8.643537E-02			15	
1,2-Dibromo-3-chloropropane	0.1049203	20.37592	14.761	1.452167E-02	0.99977		0.99	
Dibromochloromethane	0.3756774	13.32497	9.544143	2.991082E-02			15	
1,2-Dibromoethane	0.2750653	7.075096	9.652858	1.656507E-02			15	
1,2-Dichlorobenzene	1.205247	6.51206	13.77571	2.981408E-02			15	
1,3-Dichlorobenzene	1.337414	4.582892	13.20686	8.472953E-03			15	
1,4-Dichlorobenzene	1.388065	7.119513	13.32286	2.518178E-02			15	
Dichlorodifluoromethane	0.4232093	7.447336	1.001286	4.653605E-02			15	
1,1-Dichloroethane	0.548617	3.93664	3.104	0.2169006			SPCC (0.1)	
1,2-Dichloroethane	0.5449613	3.787214	5.409	6.408167E-02			15	
1,1-Dichloroethene	0.3002237	4.186182	1.992429	0.1615965			CCC (30)	
cis-1,2-Dichloroethene	0.3180469	6.203452	3.862429	0.07397			15	
trans-1,2-Dichloroethene	0.3289812	3.686307	2.654429	9.574248E-02			15	
1,2-Dichloropropane	0.2383102	5.261477	6.841857	5.618914E-02			CCC (30)	
cis-1,3-Dichloropropene	0.410401	15.85	7.994	1.745167E-02	0.99953		0.99	
trans-1,3-Dichloropropene	0.427667	16.71472	8.811857	2.909028E-02	0.99961		0.99	
Ethylbenzene	1.70733	8.542408	10.51286	1.804583E-02			CCC (30)	
2-Hexanone	0.1332871	21.28882	9.452	2.243246E-02	0.99969		0.99	
Isopropylbenzene	2.329142	13.02011	11.66914	2.386006E-02			15	
Methyl Acetate	0.1868658	7.674085	2.318	2.300244E-02			15	
Methyl tert-Butyl Ether	0.8203073	8.808875	2.667714	0.1095387			15	

INITIAL CALIBRATION DATA (Continued)

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Calibration: 2D27003

SDG: KNM050112

Project: KNM

Calibration Date: 04/24/12 00:00

Instrument: 328

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear r	Quad COD	Limit	Q
Methylcyclohexane	0.3998766	13.71056	6.765286	4.858362E-02			15	
Methylene Chloride	0.3896002	15.00404	2.400857	0.1512184	0.99935		0.99	
2-Butanone (MEK)	9.045927E-02	5.129456	3.925286	0.1244999			15	
4-Methyl-2-pentanone (MIBK)	0.171589	19.63309	8.277167	4.008795E-02	0.99987		0.99	
Styrene	1.052905	14.07517	11.20157	1.770787E-02			15	
1,1,2,2-Tetrachloroethane	0.4812311	6.377914	12.08114	2.084398E-02			SPCC (0.3)	
Tetrachloroethene	0.4973246	3.55799	9.182143	3.002604E-02			15	
Toluene	1.25447	4.56208	8.439857	1.634013E-02			CCC (30)	
1,2,4-Trichlorobenzene	0.6800597	10.47816	15.78586	2.871241E-03			15	
1,1,1-Trichloroethane	0.6373281	5.48362	4.646143	0.1174241			15	
1,1,2-Trichloroethane	0.1859654	5.826817	9.042571	1.354286E-02			15	
Trichloroethene	0.3625081	4.718824	6.495714	4.454771E-02			15	
Trichlorofluoromethane	0.7399001	4.999396	1.622143	0.1391412			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	0.323126	4.590603	1.995	9.982982E-03			15	
Vinyl Chloride	0.318557	4.782906	1.178857	0.1934046			CCC (30)	
Xylene (Total)	0.6352085	10.42398	11.176	3.104631E-02			15	
Dibromofluoromethane	0.3243064	0.6271649	4.665857	8.782026E-02			15	
1,2-Dichloroethane-d4	0.1970136	0.8362206	5.264714	5.567497E-02			15	
Toluene-d8	1.048812	1.630557	8.348428	2.269844E-02			15	
4-Bromofluorobenzene	0.5590994	1.579936	11.83914	3.081604E-02			15	

AIX 2D27005

2D27003

2E01007

Response Factor Report 328

Method Path : C:\msdchem\1\METHODS\
Method File : 8260B-WB60.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Thu Apr 26 10:51:41 2012
Response Via : Initial Calibration

Calibration Files
1 =1P0424.D 2 =5P0424.D 3 =10P0424.D 4 =20P0424.D 5 =40P0424.D 6 =100P0424.D 7 =200P0424.D

		Compound	1	2	3	4	5	6	7	Avg	%RSD
1)	I	Fluorobenzene	----------ISTD----------								
2)		dichlorodifluo...	0.444	0.482	0.401	0.417	0.421	0.412	0.385	0.423	7.45
3)	P	chloromethane	0.283	0.296	0.260	0.277	0.280	0.273	0.243	0.273	6.37
4)	C	vinyl chloride	0.334	0.337	0.298	0.315	0.324	0.322	0.300	0.319	4.78#
5)		bromomethane	0.302	0.269	0.245	0.238	0.227	0.233	0.233	0.250	10.78
6)		chloroethane	0.211	0.226	0.196	0.207	0.212	0.210	0.203	0.209	4.50
7)		dichlorofluoro...	0.651	0.664	0.582	0.619	0.636	0.630	0.608	0.627	4.38
8)		trichlorofluor...	0.703	0.811	0.706	0.745	0.756	0.738	0.720	0.740	5.00
9)		ethyl ether	0.148	0.142	0.132	0.141	0.147	0.152	0.144	0.144	4.34
10)		acrolein	0.028	0.033	0.029	0.032	0.034	0.035	0.034	0.032	8.87
11)		1,1,2-trichlor...	0.305	0.349	0.308	0.326	0.330	0.325	0.319	0.323	4.59
12)	C	1,1-dichloroet...	0.299	0.315	0.276	0.298	0.307	0.308	0.299	0.300	4.19#
13)		acetone		0.115	0.105	0.094	0.083	0.085	0.081	0.094	14.35
14)		iodomethane	0.292	0.293	0.312	0.375	0.418	0.490	0.483	0.380	22.52
15)		carbon disulfide	0.901	0.750	0.758	0.783	0.765	0.827	0.822	0.801	6.66
16)		methyl acetate		0.214	0.183	0.186	0.187	0.178	0.174	0.187	7.67
17)		methylene chlo...	0.515	0.406	0.349	0.365	0.367	0.372	0.353	0.390	15.00
18)		acrylonitrile	0.073	0.085	0.081	0.088	0.091	0.089	0.085	0.085	7.34
19)		trans-1,2-dich...	0.329	0.346	0.306	0.329	0.335	0.332	0.325	0.329	3.69
20)		methyl (tert) ...	0.701	0.840	0.739	0.831	0.863	0.895	0.873	0.820	8.81
21)	P	1,1-dichloroet...	0.523	0.566	0.516	0.547	0.568	0.569	0.552	0.549	3.94
22)		vinyl acetate	0.375	0.387	0.416	0.458	0.447	0.528	0.524	0.448	13.63
23)		2,2-dichloropr...	0.439	0.512	0.453	0.511	0.533	0.548	0.538	0.505	8.39
24)		cis-1,2-dichlo...	0.288	0.324	0.294	0.318	0.333	0.340	0.328	0.318	6.20
25)		2-butanone (MEK)	0.087	0.085	0.087	0.092	0.091	0.098	0.094	0.090	5.13
26)		bromochloromet...	0.214	0.223	0.198	0.208	0.211	0.215	0.202	0.210	4.03
27)		tetrahydrofuran		0.017	0.018	0.021	0.024	0.024	0.025	0.021	15.25
28)	C	chloroform	0.642	0.663	0.587	0.625	0.644	0.655	0.637	0.636	3.92#
29)	S	#Dibromofluoro...	0.325	0.327	0.322	0.325	0.326	0.323	0.322	0.324	0.63
30)		1,1,1-trichlor...	0.599	0.655	0.580	0.634	0.661	0.667	0.665	0.637	5.48
31)		cyclohexane	0.306	0.392	0.360	0.398	0.427	0.437	0.426	0.392	11.81
32)		carbon tetrach...	0.514	0.605	0.542	0.598	0.626	0.635	0.638	0.594	8.10
33)		1,1-dichloropr...	0.389	0.457	0.418	0.453	0.476	0.479	0.476	0.450	7.59
34)		benzene	1.042	1.107	0.992	1.074	1.117	1.135	1.103	1.082	4.60
35)		1,2-dichloroet...	0.531	0.559	0.507	0.543	0.556	0.570	0.549	0.545	3.79
36)		heptane								0.000	-1.00
37)	s	#1,2-Dichloroe...	0.197	0.199	0.197	0.198	0.199	0.195	0.195	0.197	0.84
38)		trichloroethene	0.356	0.367	0.329	0.358	0.376	0.379	0.372	0.363	4.72
39)		methylcyclohexane	0.302	0.391	0.361	0.408	0.435	0.463	0.439	0.400	13.71

4.27.12

Method Path : C:\msdchem\1\METHODS\
Method File : 8260B-WB60.M

40)	C	1,2-dichloropr...	0.222	0.242	0.223	0.233	0.247	0.254	0.247	0.238	5.26#
41)		dibromomethane	0.187	0.195	0.169	0.183	0.189	0.197	0.184	0.186	4.85
42)		1,4-dioxane								0.000	-1.00
43)		bromodichlorom...	0.423	0.452	0.420	0.454	0.482	0.506	0.497	0.462	7.45
44)		2-chloroethyl ...		0.045	0.058	0.072	0.075	0.088	0.089	0.071	24.07
45)		cis-1,3-dichlo...	0.305	0.378	0.364	0.418	0.449	0.486	0.472	0.410	15.85
46)		4-methyl-2-pen...		0.120	0.144	0.173	0.186	0.203	0.203	0.172	19.63
47)	s	#Toluene-d8	1.017	1.040	1.043	1.054	1.063	1.061	1.065	1.049	1.63
48)	C	toluene	1.242	1.264	1.140	1.239	1.290	1.312	1.293	1.254	4.56#
49)		trans-1,3-dich...	0.339	0.379	0.362	0.422	0.467	0.514	0.511	0.428	16.71
50)		1,1,2-trichlor...	0.172	0.188	0.172	0.184	0.192	0.201	0.193	0.186	5.83
51)		Chlorobenzene-d5	----------	----------	----------	ISTD	----------	----------	----------	----------	
52)		tetrachloroethene	0.500	0.509	0.461	0.495	0.512	0.510	0.495	0.497	3.56
53)		1,3-dichloropr...	0.414	0.464	0.432	0.469	0.489	0.510	0.487	0.467	7.19
54)		2-hexanone (MBK)		0.089	0.111	0.134	0.145	0.161	0.159	0.133	21.29
55)		dibromochlorom...	0.296	0.361	0.333	0.378	0.402	0.435	0.425	0.376	13.32
56)		1,2-dibromoethane	0.248	0.268	0.253	0.279	0.288	0.300	0.289	0.275	7.08
57)	P	chlorobenzene	0.999	1.047	0.943	0.990	1.023	1.042	1.007	1.007	3.50
58)		1-chlorohexane	0.286	0.331	0.306	0.334	0.341	0.352	0.341	0.327	7.03
59)		1,1,1,2-tetrac...	0.347	0.392	0.361	0.397	0.413	0.440	0.426	0.397	8.43
60)	C	ethylbenzene	1.434	1.728	1.597	1.730	1.801	1.846	1.815	1.707	8.54#
61)		m+p-xylene	0.531	0.661	0.616	0.665	0.690	0.707	0.693	0.652	9.32
62)		o-xylene	0.461	0.578	0.552	0.622	0.656	0.684	0.663	0.602	13.00
63)		styrene	0.757	1.040	0.992	1.087	1.135	1.198	1.160	1.053	14.08
64)	P	bromoform	0.188	0.221	0.209	0.245	0.271	0.300	0.303	0.248	18.03
65)	S	#4-Bromofluoro...	0.541	0.557	0.560	0.562	0.560	0.569	0.564	0.559	1.58
66)	I	1,4-Dichlorobenzen...	----------	----------	----------	ISTD	----------	----------	----------	----------	
67)		isopropylbenzene	1.749	2.292	2.152	2.408	2.532	2.624	2.548	2.329	13.02
68)		bromobenzene	1.003	0.976	0.880	0.950	0.980	1.021	0.976	0.969	4.69
69)	P	1,1,2,2-tetrac...	0.432	0.494	0.445	0.484	0.504	0.513	0.496	0.481	6.38
70)		1,2,3-trichlor...	0.176	0.202	0.185	0.202	0.213	0.211	0.201	0.198	6.83
71)		1,4-dichloro-2...	0.106	0.152	0.149	0.178	0.193	0.205	0.201	0.169	20.98
72)		n-propylbenzene	0.550	0.693	0.635	0.703	0.735	0.757	0.720	0.685	10.33
73)		2-chlorotoluene	0.578	0.656	0.579	0.633	0.652	0.668	0.635	0.629	5.80
74)		1,3,5-trimethy...	1.678	2.202	2.045	2.201	2.286	2.390	2.284	2.155	10.93
75)		4-chlorotoluene	1.915	2.184	2.007	2.181	2.249	2.347	2.244	2.161	6.93
76)		tert-butylbenzene	1.358	1.777	1.666	1.852	1.953	2.047	1.958	1.802	12.94
77)		1,2,4-trimethy...	1.583	2.150	2.025	2.209	2.317	2.431	2.330	2.149	13.16
78)		sec-butylbenzene	1.804	2.352	2.206	2.458	2.565	2.722	2.578	2.384	12.81
79)		1,3-dichlorobe...	1.313	1.375	1.227	1.314	1.362	1.421	1.351	1.337	4.58
80)		4-isopropyltol...	1.980	2.257	2.066	2.233	2.342	2.494	2.376	2.250	7.94
81)		1,4-dichlorobe...	1.571	1.407	1.248	1.346	1.370	1.427	1.348	1.388	7.12
82)		1,2-dichlorobe...	1.119	1.207	1.098	1.188	1.251	1.320	1.254	1.205	6.51
83)		n-butylbenzene	1.167	1.596	1.530	1.698	1.804	1.943	1.830	1.652	15.52
84)		hexachloroethane	0.234	0.269	0.258	0.299	0.330	0.377	0.373	0.306	18.34
85)		1,2-dibromo-3-...	0.076	0.088	0.088	0.106	0.121	0.127	0.129	0.105	20.38
86)		1,2,4-trichlor...	0.625	0.619	0.597	0.670	0.718	0.781	0.751	0.680	10.48

99166

Method Path : C:\msdchem\1\METHODS\
Method File : 8260B-WB60.M

87)	hexachlorobuta...	0.448	0.394	0.338	0.353	0.366	0.380	0.355	0.376	9.70
88)	naphthalene		0.997	1.082	1.349	1.510	1.619	1.592	1.358	19.54
89)	1,2,3-trichlor...	0.540	0.564	0.528	0.592	0.641	0.664	0.640	0.595	9.06
90)	2-methylnaphth...	0.264	0.232	0.273	0.385	0.503	0.542	0.508	0.387	34.14

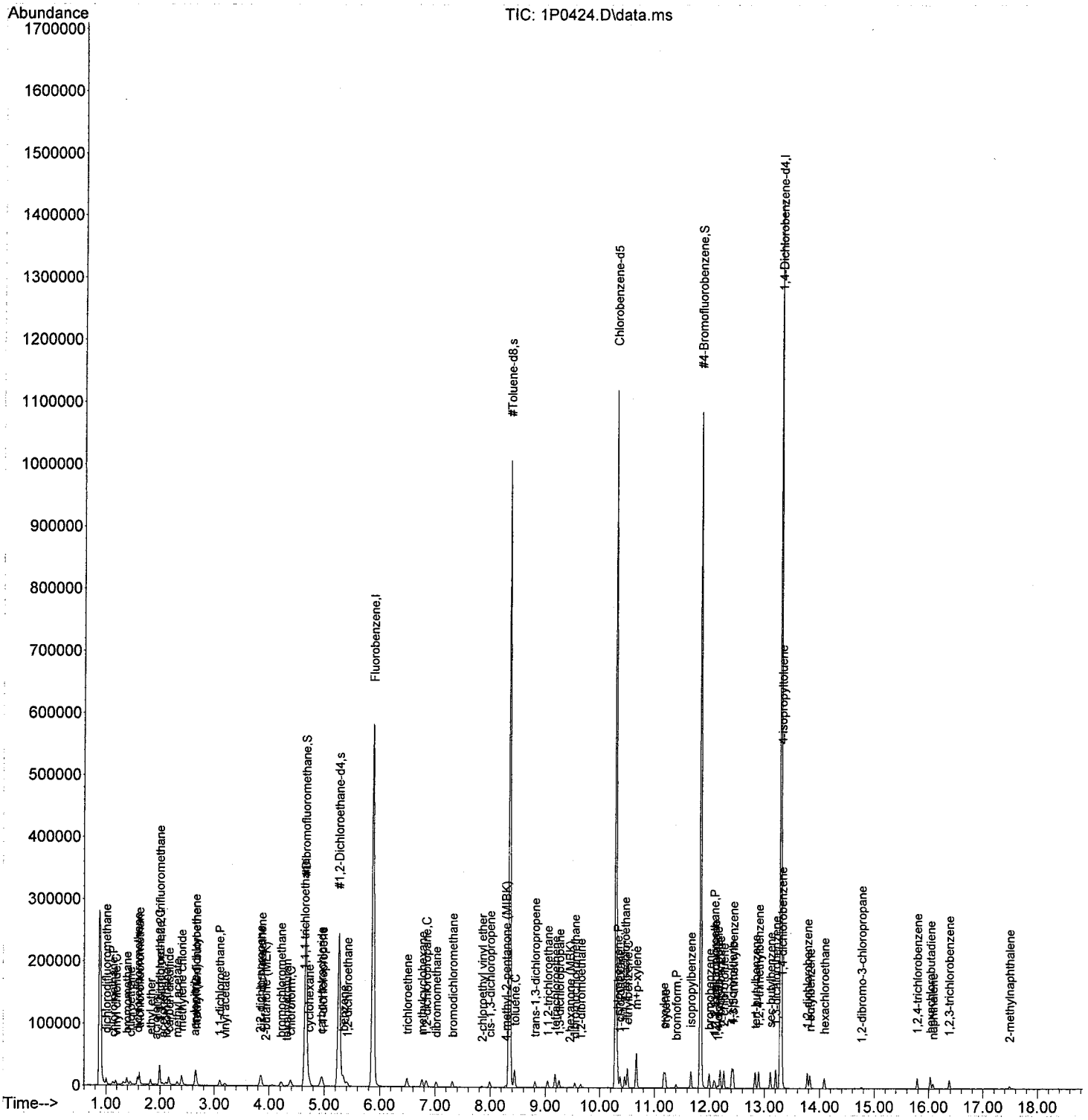
(#) = Out of Range

69467

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 1P0424.D
Acq On : 24 Apr 2012 9:54
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 24 13:09:30 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration



00468

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 1P0424.D
Acq On : 24 Apr 2012 9:54
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 24 13:09:30 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.878	96	698030	40.00	ug/L		0.00
51) Chlorobenzene-d5	10.292	117	613620	40.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	398433	40.00	ug/L	#	0.00
System Monitoring Compounds							
29) #Dibromofluoromethane	4.659	111	226895	40.03	ug/L		0.00
Spiked Amount 40.000			Recovery = 100.08%				
37) #1,2-Dichloroethane-d4	5.263	67	137341	39.49	ug/L		0.00
Spiked Amount 40.000			Recovery = 98.73%				
47) #Toluene-d8	8.347	98	709792	38.72	ug/L		0.00
Spiked Amount 40.000			Recovery = 96.80%				
65) #4-Bromofluorobenzene	11.834	95	331961	38.37	ug/L		0.00
Spiked Amount 40.000			Recovery = 95.92%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.001	85	7754	1.67	ug/L		97
3) chloromethane	1.129	50	4947	1.22	ug/L		100
4) vinyl chloride	1.184	62	5828	1.24	ug/L		94
5) bromomethane	1.385	94	5274	1.61	ug/L		100
6) chloroethane	1.452	64	3683	1.10	ug/L		98
7) dichlorofluoromethane	1.586	67	11354	1.02	ug/L		96
8) trichlorofluoromethane	1.617	101	12272	0.99	ug/L		98
9) ethyl ether	1.824	74	2591	1.15	ug/L		97
10) acrolein	1.916	56	480	0.81	ug/L	#	98
11) 1,1,2-trichloro-1,2,2-...	1.995	101	5323	1.09	ug/L		100
12) 1,1-dichloroethene	1.989	96	5210	1.04	ug/L		97
13) acetone	2.044	43	4965	0.28	ug/L	#	87
14) iodomethane	2.111	142	5096	4.23	ug/L		95
15) carbon disulfide	2.160	76	15718	1.09	ug/L		96
16) methyl acetate	2.312	43	6382	2.11	ug/L		87
17) methylene chloride	2.397	49	8994	0.83	ug/L		98
18) acrylonitrile	2.635	53	1266	0.82	ug/L	#	88
19) trans-1,2-dichloroethene	2.653	96	5743	1.04	ug/L		98
20) methyl (tert) butyl ether	2.666	73	12241	0.90	ug/L		99
21) 1,1-dichloroethane	3.092	63	9126	0.98	ug/L		97
22) vinyl acetate	3.190	43	6548	0.81	ug/L		95
23) 2,2-dichloropropane	3.836	77	7669	0.93	ug/L		100
24) cis-1,2-dichloroethene	3.860	96	5030	0.93	ug/L		95
25) 2-butanone (MEK)	3.934	43	1511	0.79	ug/L		69
26) bromochloromethane	4.214	49	3737	1.04	ug/L		98
27) tetrahydrofuran	4.312	71	60	2.91	ug/L	#	1
28) chloroform	4.385	83	11204	1.03	ug/L		95
30) 1,1,1-trichloroethane	4.635	97	10456	0.97	ug/L		98
31) cyclohexane	4.720	56	5340	0.86	ug/L		96
32) carbon tetrachloride	4.939	117	8966	0.87	ug/L		97
33) 1,1-dichloropropene	4.970	75	6791	0.91	ug/L		95
34) benzene	5.342	78	18183	0.97	ug/L	#	72
35) 1,2-dichloroethane	5.409	62	9263	0.97	ug/L		98
36) heptane	5.878	57	23923	No Calib			
38) trichloroethene	6.494	130	6218	1.02	ug/L		98

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 1P0424.D
Acq On : 24 Apr 2012 9:54
Operator : DLV
Sample : CAL1
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 24 13:09:30 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

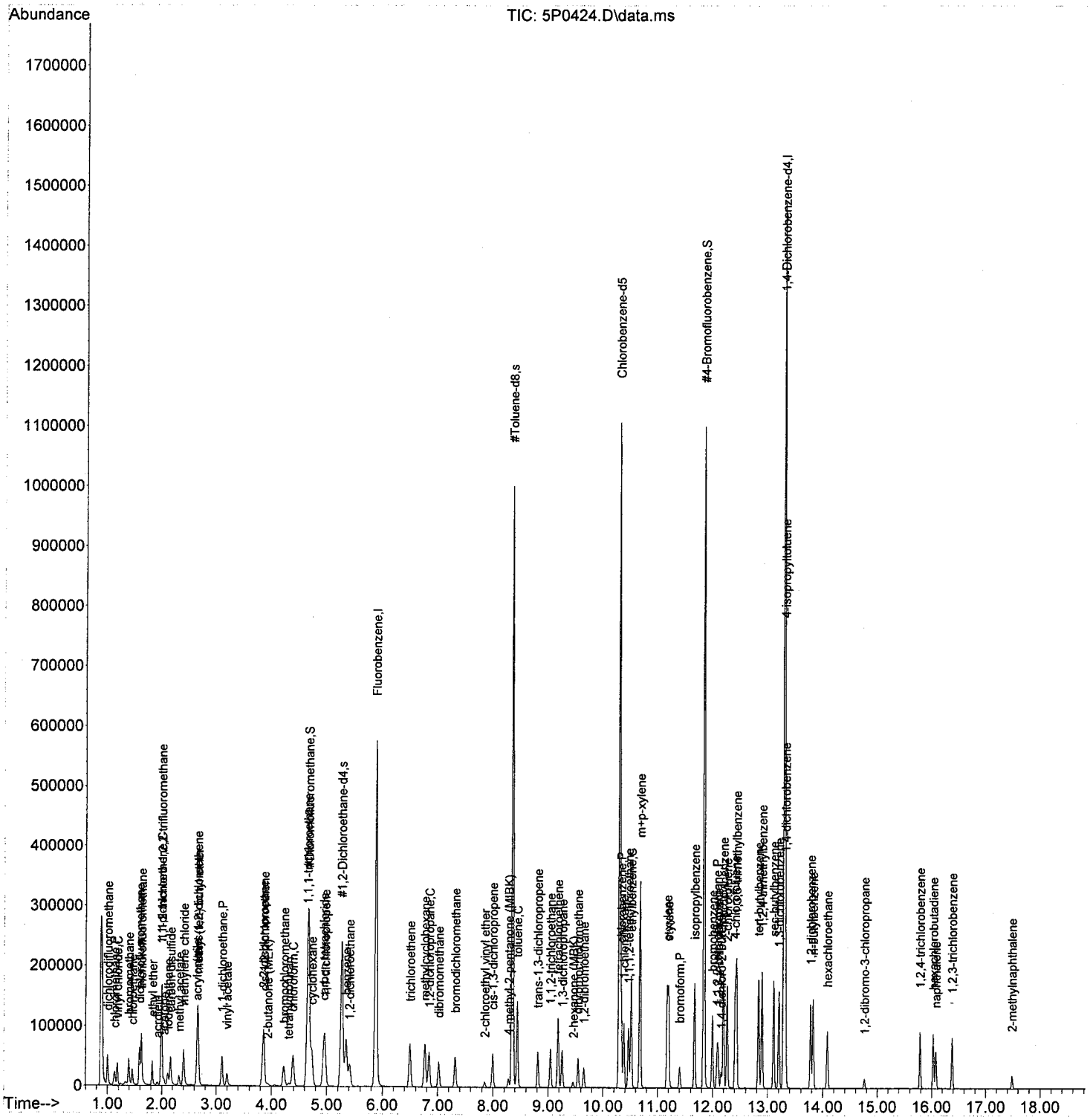
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.762	83	5270	0.77 ug/L	96
40) 1,2-dichloropropane	6.835	63	3868	0.95 ug/L #	81
41) dibromomethane	7.012	93	3261	1.01 ug/L	96
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	7.317	83	7373	0.93 ug/L	98
44) 2-chloroethyl vinyl ether	7.847	63	617	4.71 ug/L #	50
45) cis-1,3-dichloropropene	7.994	75	5327	1.37 ug/L	97
46) 4-methyl-2-pentanone (...	8.280	43	1818	3.85 ug/L	84
48) toluene	8.439	91	21676	1.00 ug/L	99
49) trans-1,3-dichloropropene	8.811	75	5915	3.74 ug/L	99
50) 1,1,2-trichloroethane	9.042	83	2998	0.92 ug/L	97
52) tetrachloroethene	9.183	166	7664	1.02 ug/L	95
53) 1,3-dichloropropane	9.256	76	6355	0.86 ug/L	99
54) 2-hexanone (MBK)	9.451	43	1018	0.43 ug/L #	79
55) dibromochloromethane	9.542	129	4537	0.77 ug/L	97
56) 1,2-dibromoethane	9.652	109	3799	0.88 ug/L #	100
57) chlorobenzene	10.329	112	15326	0.97 ug/L	97
58) 1-chlorohexane	10.371	55	4390	0.85 ug/L	93
59) 1,1,1,2-tetrachloroethane	10.463	131	5328	0.86 ug/L	98
60) ethylbenzene	10.512	91	21995	0.83 ug/L	99
61) m+p-xylene	10.670	106	16306	1.62 ug/L	99
62) o-xylene	11.170	106	7076	0.77 ug/L	95
63) styrene	11.200	104	11619	1.43 ug/L	96
64) bromoform	11.402	173	2889	0.75 ug/L	96
67) isopropylbenzene	11.664	105	17417	1.76 ug/L	97
68) bromobenzene	11.993	77	9994	1.00 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.084	83	4302	0.82 ug/L #	98
70) 1,2,3-trichloropropane	12.103	110	1751	0.83 ug/L	94
71) 1,4-dichloro-2-butene	12.151	53	1059	3.04 ug/L	80
72) n-propylbenzene	12.194	120	5480	0.79 ug/L	98
73) 2-chlorotoluene	12.261	126	5757	0.91 ug/L #	86
74) 1,3,5-trimethylbenzene	12.432	105	16711	0.77 ug/L	99
75) 4-chlorotoluene	12.414	91	19072	0.88 ug/L	100
76) tert-butylbenzene	12.834	119	13525	0.75 ug/L	100
77) 1,2,4-trimethylbenzene	12.895	105	15765	0.71 ug/L	99
78) sec-butylbenzene	13.109	105	17967	0.73 ug/L	98
79) 1,3-dichlorobenzene	13.206	146	13079	0.97 ug/L	98
80) 4-isopropyltoluene	13.310	119	19718	0.85 ug/L	93
81) 1,4-dichlorobenzene	13.322	146	15644	1.11 ug/L #	80
82) 1,2-dichlorobenzene	13.773	146	11144	0.91 ug/L	99
83) n-butylbenzene	13.822	91	11622	2.18 ug/L	98
84) hexachloroethane	14.084	201	2334	3.34 ug/L #	72
85) 1,2-dibromo-3-chloropr...	14.761	157	756	0.66 ug/L	97
86) 1,2,4-trichlorobenzene	15.785	180	6228	0.91 ug/L	97
87) hexachlorobutadiene	16.029	225	4461	1.18 ug/L	97
88) naphthalene	16.078	128	8196	3.44 ug/L	97
89) 1,2,3-trichlorobenzene	16.376	180	5378	0.87 ug/L	98
90) 2-methylnaphthalene	17.486	142	2632	3.36 ug/L	96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 5P0424.D
Acq On : 24 Apr 2012 10:21
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 24 13:09:51 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration



00471

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 5P0424.D
Acq On : 24 Apr 2012 10:21
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 24 13:09:51 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.879	96	678209	40.00	ug/L		0.00
51) Chlorobenzene-d5	10.292	117	604396	40.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	399720	40.00	ug/L	#	0.00
System Monitoring Compounds							
29) #Dibromofluoromethane	4.665	111	221582	40.24	ug/L		0.00
Spiked Amount 40.000			Recovery = 100.60%				
37) #1,2-Dichloroethane-d4	5.263	67	134690	39.86	ug/L		0.00
Spiked Amount 40.000			Recovery = 99.65%				
47) #Toluene-d8	8.348	98	705375	39.61	ug/L		0.00
Spiked Amount 40.000			Recovery = 99.02%				
65) #4-Bromofluorobenzene	11.841	95	336699	39.51	ug/L		0.00
Spiked Amount 40.000			Recovery = 98.77%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.002	85	40831	9.06	ug/L		98
3) chloromethane	1.130	50	25118	6.36	ug/L		99
4) vinyl chloride	1.178	62	28547	6.24	ug/L		100
5) bromomethane	1.386	94	22823	7.19	ug/L		99
6) chloroethane	1.453	64	19168	5.90	ug/L		99
7) dichlorofluoromethane	1.587	67	56302	5.22	ug/L		99
8) trichlorofluoromethane	1.623	101	68729	5.70	ug/L		99
9) ethyl ether	1.825	74	12013	5.49	ug/L		98
10) acrolein	1.916	56	2781	4.81	ug/L	#	96
11) 1,1,2-trichloro-1,2,2-...	1.995	101	29616	6.26	ug/L		100
12) 1,1-dichloroethene	1.989	96	26696	5.51	ug/L		100
13) acetone	2.044	43	9720	3.64	ug/L		93
14) iodomethane	2.111	142	24833	6.85	ug/L		98
15) carbon disulfide	2.160	76	63602	4.55	ug/L		99
16) methyl acetate	2.318	43	18172	6.19	ug/L		95
17) methylene chloride	2.404	49	34420	5.18	ug/L		96
18) acrylonitrile	2.641	53	7192	4.78	ug/L		98
19) trans-1,2-dichloroethene	2.654	96	29356	5.47	ug/L		99
20) methyl (tert) butyl ether	2.666	73	71183	5.40	ug/L		99
21) 1,1-dichloroethane	3.099	63	47960	5.27	ug/L		100
22) vinyl acetate	3.190	43	32777	4.19	ug/L		100
23) 2,2-dichloropropane	3.849	77	43413	5.41	ug/L		99
24) cis-1,2-dichloroethene	3.861	96	27491	5.24	ug/L		97
25) 2-butanone (MEK)	3.928	43	7174	3.84	ug/L		93
26) bromochloromethane	4.226	49	18887	5.40	ug/L		98
27) tetrahydrofuran	4.306	71	1462	6.32	ug/L	#	76
28) chloroform	4.385	83	56238	5.30	ug/L		99
30) 1,1,1-trichloroethane	4.647	97	55507	5.32	ug/L		99
31) cyclohexane	4.726	56	33213	5.53	ug/L		99
32) carbon tetrachloride	4.940	117	51307	5.14	ug/L		99
33) 1,1-dichloropropene	4.970	75	38713	5.34	ug/L		99
34) benzene	5.342	78	93864	5.16	ug/L		99
35) 1,2-dichloroethane	5.403	62	47392	5.13	ug/L		99
36) heptane	5.879	57	23939	No Calib			
38) trichloroethene	6.500	130	31153	5.24	ug/L		99

00472

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 5P0424.D
Acq On : 24 Apr 2012 10:21
Operator : DLV
Sample : CAL2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 24 13:09:51 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

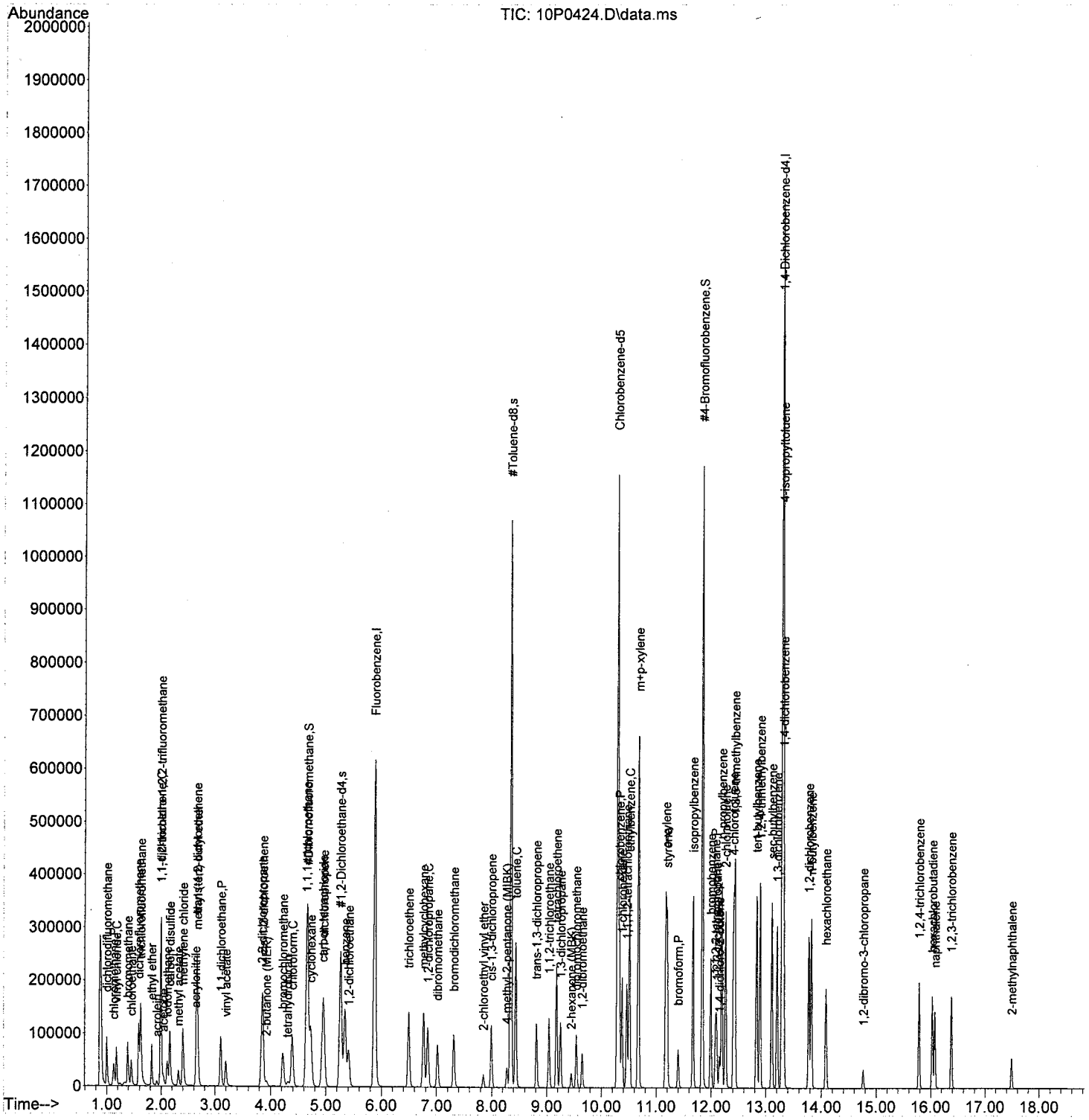
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) methylcyclohexane	6.763	83	33118	4.99	ug/L		98
40) 1,2-dichloropropane	6.842	63	20552	5.17	ug/L		99
41) dibromomethane	7.019	93	16551	5.30	ug/L		98
42) 1,4-dioxane	0.000		0	N.D.			
43) bromodichloromethane	7.317	83	38361	4.96	ug/L		99
44) 2-chloroethyl vinyl ether	7.848	63	3834	6.18	ug/L		99
45) cis-1,3-dichloropropene	7.994	75	32014	4.86	ug/L		99
46) 4-methyl-2-pentanone (...	8.281	43	10136	6.09	ug/L		98
48) toluene	8.439	91	107129	5.10	ug/L		100
49) trans-1,3-dichloropropene	8.811	75	32113	6.83	ug/L		99
50) 1,1,2-trichloroethane	9.043	83	15904	5.05	ug/L		100
52) tetrachloroethene	9.177	166	38489	5.18	ug/L		99
53) 1,3-dichloropropane	9.256	76	35084	4.82	ug/L		99
54) 2-hexanone (MBK)	9.457	43	6725	2.92	ug/L		92
55) dibromochloromethane	9.543	129	27295	4.71	ug/L		96
56) 1,2-dibromoethane	9.652	109	20231	4.78	ug/L	#	100
57) chlorobenzene	10.329	112	79073	5.10	ug/L		93
58) 1-chlorohexane	10.378	55	24992	4.90	ug/L		97
59) 1,1,1,2-tetrachloroethane	10.463	131	29616	4.85	ug/L		99
60) ethylbenzene	10.512	91	130585	5.01	ug/L		99
61) m+p-xylene	10.676	106	99810	10.08	ug/L		99
62) o-xylene	11.176	106	43649	4.80	ug/L		100
63) styrene	11.201	104	78578	5.20	ug/L		99
64) bromoform	11.402	173	16713	4.38	ug/L		99
67) isopropylbenzene	11.670	105	114508	5.48	ug/L		98
68) bromobenzene	11.993	77	48759	4.86	ug/L		97
69) 1,1,2,2-tetrachloroethane	12.079	83	24670	4.71	ug/L	#	99
70) 1,2,3-trichloropropane	12.103	110	10115	4.76	ug/L		96
71) 1,4-dichloro-2-butene	12.158	53	7599	6.07	ug/L	#	79
72) n-propylbenzene	12.194	120	34626	4.94	ug/L		97
73) 2-chlorotoluene	12.262	126	32797	5.17	ug/L		93
74) 1,3,5-trimethylbenzene	12.432	105	110016	5.04	ug/L		100
75) 4-chlorotoluene	12.408	91	109125	5.01	ug/L		99
76) tert-butylbenzene	12.828	119	88779	4.90	ug/L		99
77) 1,2,4-trimethylbenzene	12.896	105	107439	4.84	ug/L		99
78) sec-butylbenzene	13.109	105	117518	4.77	ug/L		99
79) 1,3-dichlorobenzene	13.206	146	68711	5.06	ug/L		100
80) 4-isopropyltoluene	13.310	119	112756	4.85	ug/L		98
81) 1,4-dichlorobenzene	13.322	146	70319	4.97	ug/L		95
82) 1,2-dichlorobenzene	13.780	146	60329	4.89	ug/L		99
83) n-butylbenzene	13.822	91	79768	5.57	ug/L		98
84) hexachloroethane	14.084	201	13455	6.26	ug/L	#	80
85) 1,2-dibromo-3-chloropr...	14.761	157	4394	3.82	ug/L		93
86) 1,2,4-trichlorobenzene	15.785	180	30912	4.48	ug/L		98
87) hexachlorobutadiene	16.029	225	19688	5.18	ug/L		98
88) naphthalene	16.078	128	49792	5.88	ug/L		99
89) 1,2,3-trichlorobenzene	16.383	180	28163	4.52	ug/L		98
90) 2-methylnaphthalene	17.486	142	11570	5.12	ug/L		96

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 10P0424.D
Acq On : 24 Apr 2012 10:49
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 24 13:09:24 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration



00474

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 10P0424.D
Acq On : 24 Apr 2012 10:49
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 24 13:09:24 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.879	96	722328	40.00	ug/L		0.00
51) Chlorobenzene-d5	10.292	117	641666	40.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	433332	40.00	ug/L	#	0.00
System Monitoring Compounds							
29) #Dibromofluoromethane	4.665	111	232869	39.70	ug/L		0.00
Spiked Amount 40.000			Recovery = 99.25%				
37) #1,2-Dichloroethane-d4	5.263	67	142166	39.50	ug/L		0.00
Spiked Amount 40.000			Recovery = 98.75%				
47) #Toluene-d8	8.348	98	753150	39.70	ug/L		0.00
Spiked Amount 40.000			Recovery = 99.25%				
65) #4-Bromofluorobenzene	11.841	95	359562	39.75	ug/L		0.00
Spiked Amount 40.000			Recovery = 99.38%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.002	85	72396	15.09	ug/L		99
3) chloromethane	1.130	50	46886	11.15	ug/L		100
4) vinyl chloride	1.178	62	53729	11.02	ug/L		100
5) bromomethane	1.386	94	44163	13.06	ug/L		100
6) chloroethane	1.453	64	35312	10.20	ug/L		98
7) dichlorofluoromethane	1.587	67	105012	9.13	ug/L		99
8) trichlorofluoromethane	1.623	101	127466	9.93	ug/L		100
9) ethyl ether	1.825	74	23922	10.26	ug/L		98
10) acrolein	1.922	56	5262	8.54	ug/L	#	98
11) 1,1,2-trichloro-1,2,2-...	1.995	101	55619	11.04	ug/L		99
12) 1,1-dichloroethene	1.989	96	49775	9.64	ug/L		99
13) acetone	2.044	43	18930	9.17	ug/L		93
14) iodomethane	2.111	142	56325	10.55	ug/L		98
15) carbon disulfide	2.160	76	136968	9.20	ug/L		100
16) methyl acetate	2.318	43	33112	10.60	ug/L		99
17) methylene chloride	2.404	49	63104	9.40	ug/L		99
18) acrylonitrile	2.635	53	14705	9.18	ug/L		97
19) trans-1,2-dichloroethene	2.654	96	55317	9.67	ug/L		97
20) methyl (tert) butyl ether	2.666	73	133500	9.51	ug/L		100
21) 1,1-dichloroethane	3.105	63	93211	9.63	ug/L		99
22) vinyl acetate	3.196	43	75125	9.01	ug/L		98
23) 2,2-dichloropropane	3.842	77	81762	9.57	ug/L		98
24) cis-1,2-dichloroethene	3.861	96	53109	9.51	ug/L		99
25) 2-butanone (MEK)	3.922	43	15740	7.91	ug/L		95
26) bromochloromethane	4.220	49	35744	9.59	ug/L		98
27) tetrahydrofuran	4.306	71	3251	10.18	ug/L		90
28) chloroform	4.391	83	105990	9.38	ug/L		100
30) 1,1,1-trichloroethane	4.647	97	104669	9.41	ug/L		99
31) cyclohexane	4.726	56	65007	10.16	ug/L		100
32) carbon tetrachloride	4.946	117	97881	9.21	ug/L		100
33) 1,1-dichloropropene	4.964	75	75418	9.78	ug/L		100
34) benzene	5.342	78	179192	9.24	ug/L		99
35) 1,2-dichloroethane	5.409	62	91636	9.32	ug/L		100
36) heptane	5.879	57	25489	No Calib			
38) trichloroethene	6.494	130	59395	9.38	ug/L		99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 10P0424.D
Acq On : 24 Apr 2012 10:49
Operator : DLV
Sample : CAL3
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 24 13:09:24 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

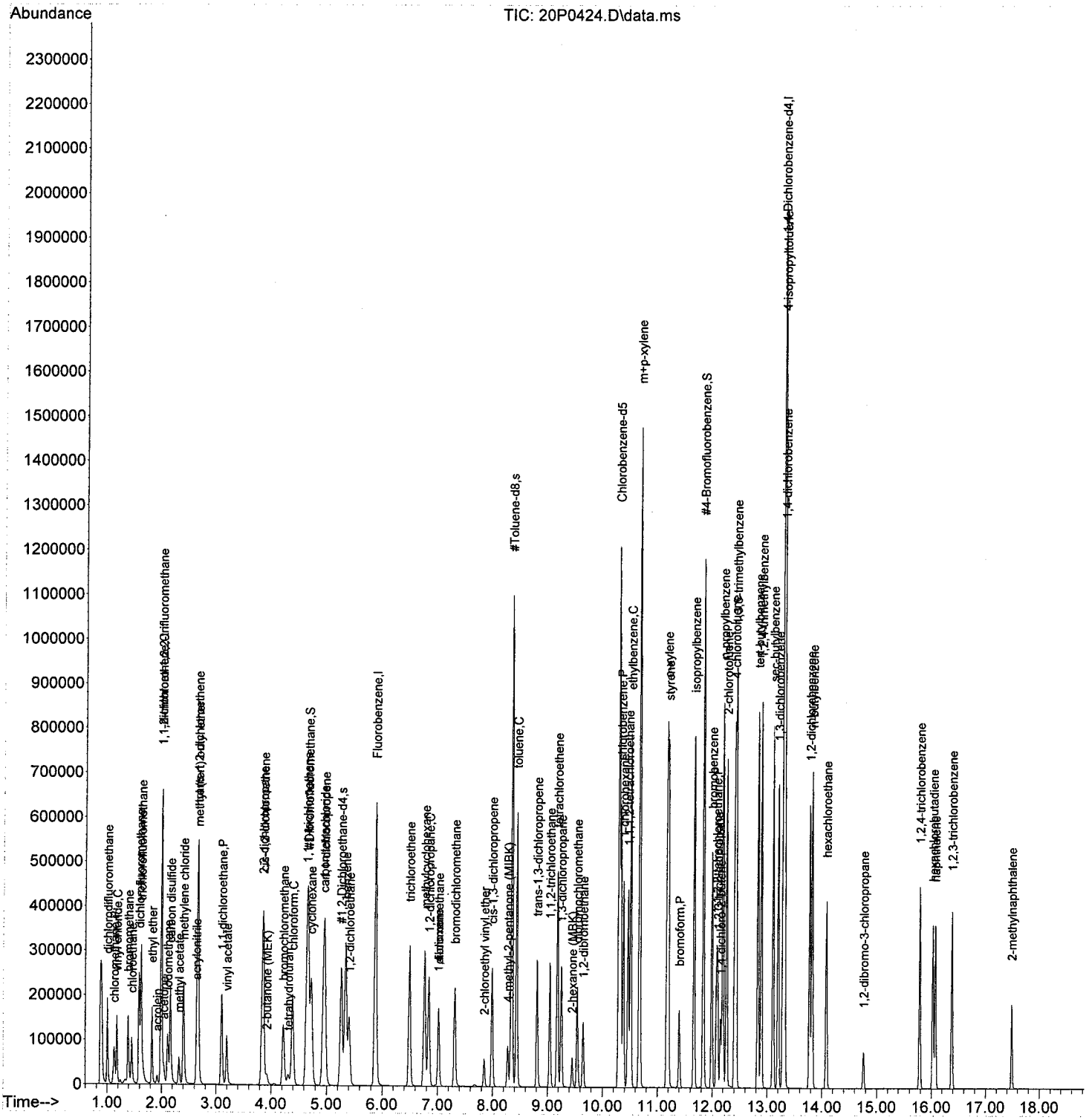
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.763	83	65213	9.23 ug/L	97
40) 1,2-dichloropropane	6.842	63	40360	9.54 ug/L	100
41) dibromomethane	7.019	93	30599	9.20 ug/L	98
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	7.317	83	75755	9.20 ug/L	99
44) 2-chloroethyl vinyl ether	7.848	63	10504	8.92 ug/L	98
45) cis-1,3-dichloropropene	7.994	75	65766	8.72 ug/L	99
46) 4-methyl-2-pentanone (...	8.274	43	26025	9.92 ug/L	99
48) toluene	8.439	91	205903	9.21 ug/L	99
49) trans-1,3-dichloropropene	8.811	75	65301	10.25 ug/L	100
50) 1,1,2-trichloroethane	9.043	83	31078	9.27 ug/L	100
52) tetrachloroethene	9.183	166	73906	9.37 ug/L	99
53) 1,3-dichloropropane	9.256	76	69287	8.97 ug/L	100
54) 2-hexanone (MBK)	9.451	43	17873	7.30 ug/L	96
55) dibromochloromethane	9.543	129	53476	8.69 ug/L	100
56) 1,2-dibromoethane	9.652	109	40658	9.04 ug/L #	100
57) chlorobenzene	10.329	112	151329	9.19 ug/L	96
58) 1-chlorohexane	10.378	55	49160	9.08 ug/L	97
59) 1,1,1,2-tetrachloroethane	10.463	131	57934	8.94 ug/L	99
60) ethylbenzene	10.512	91	256137	9.26 ug/L	100
61) m+p-xylene	10.676	106	197529	18.78 ug/L	98
62) o-xylene	11.176	106	88538	9.18 ug/L	98
63) styrene	11.201	104	159134	9.21 ug/L	99
64) bromoform	11.402	173	33482	8.27 ug/L	99
67) isopropylbenzene	11.670	105	233139	9.34 ug/L	100
68) bromobenzene	11.993	77	95318	8.76 ug/L	96
69) 1,1,2,2-tetrachloroethane	12.079	83	48240	8.50 ug/L #	100
70) 1,2,3-trichloropropane	12.103	110	19990	8.68 ug/L	99
71) 1,4-dichloro-2-butene	12.152	53	16107	9.44 ug/L	82
72) n-propylbenzene	12.194	120	68770	9.06 ug/L	99
73) 2-chlorotoluene	12.262	126	62737	9.13 ug/L	97
74) 1,3,5-trimethylbenzene	12.432	105	221508	9.36 ug/L	100
75) 4-chlorotoluene	12.408	91	217383	9.20 ug/L	99
76) tert-butylbenzene	12.828	119	180498	9.19 ug/L	100
77) 1,2,4-trimethylbenzene	12.896	105	219366	9.11 ug/L	100
78) sec-butylbenzene	13.109	105	239019	8.94 ug/L	99
79) 1,3-dichlorobenzene	13.206	146	132893	9.02 ug/L	100
80) 4-isopropyltoluene	13.310	119	223790	8.89 ug/L	99
81) 1,4-dichlorobenzene	13.322	146	135168	8.82 ug/L	96
82) 1,2-dichlorobenzene	13.773	146	118925	8.89 ug/L	100
83) n-butylbenzene	13.822	91	165704	9.20 ug/L	99
84) hexachloroethane	14.084	201	27937	9.50 ug/L #	86
85) 1,2-dibromo-3-chloropr...	14.761	157	9496	7.61 ug/L	98
86) 1,2,4-trichlorobenzene	15.785	180	64623	8.64 ug/L	98
87) hexachlorobutadiene	16.029	225	36613	8.88 ug/L	99
88) naphthalene	16.078	128	117261	9.30 ug/L	99
89) 1,2,3-trichlorobenzene	16.377	180	57193	8.46 ug/L	99
90) 2-methylnaphthalene	17.492	142	29545	8.21 ug/L	99

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 20P0424.D
Acq On : 24 Apr 2012 11:16
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 24 13:09:41 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration



00477

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 20P0424.D
Acq On : 24 Apr 2012 11:16
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 24 13:09:41 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.878	96	733706	40.00	ug/L		0.00
51) Chlorobenzene-d5	10.292	117	653838	40.00	ug/L		0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	443046	40.00	ug/L	#	0.00
System Monitoring Compounds							
29) #Dibromofluoromethane	4.665	111	238538	40.04	ug/L		0.00
Spiked Amount 40.000			Recovery =	100.10%			
37) #1,2-Dichloroethane-d4	5.263	67	145430	39.78	ug/L		0.00
Spiked Amount 40.000			Recovery =	99.45%			
47) #Toluene-d8	8.347	98	773104	40.12	ug/L		0.00
Spiked Amount 40.000			Recovery =	100.30%			
65) #4-Bromofluorobenzene	11.835	95	367614	39.88	ug/L		0.00
Spiked Amount 40.000			Recovery =	99.70%			
Target Compounds							Qvalue
2) dichlorodifluoromethane	1.001	85	153156	31.42	ug/L		99
3) chloromethane	1.129	50	101493	23.76	ug/L		99
4) vinyl chloride	1.178	62	115698	23.36	ug/L		100
5) bromomethane	1.385	94	87417	25.45	ug/L		98
6) chloroethane	1.452	64	76117	21.66	ug/L		100
7) dichlorofluoromethane	1.587	67	227102	19.45	ug/L		100
8) trichlorofluoromethane	1.623	101	273413	20.96	ug/L		100
9) ethyl ether	1.824	74	51906	21.92	ug/L		99
10) acrolein	1.922	56	11847	18.93	ug/L	#	97
11) 1,1,2-trichloro-1,2,2-...	1.995	101	119703	23.39	ug/L		99
12) 1,1-dichloroethene	1.995	96	109248	20.83	ug/L		98
13) acetone	2.038	43	34320	18.74	ug/L		97
14) iodomethane	2.111	142	137482	20.35	ug/L		99
15) carbon disulfide	2.160	76	287179	18.98	ug/L		100
16) methyl acetate	2.318	43	68068	21.44	ug/L		98
17) methylene chloride	2.397	49	133799	20.33	ug/L		99
18) acrylonitrile	2.635	53	32266	19.83	ug/L		99
19) trans-1,2-dichloroethene	2.653	96	120592	20.76	ug/L		99
20) methyl (tert) butyl ether	2.666	73	304869	21.38	ug/L		100
21) 1,1-dichloroethane	3.105	63	200717	20.40	ug/L		100
22) vinyl acetate	3.196	43	168104	19.84	ug/L		100
23) 2,2-dichloropropane	3.848	77	187423	21.60	ug/L		99
24) cis-1,2-dichloroethene	3.861	96	116608	20.56	ug/L		98
25) 2-butanone (MEK)	3.922	43	33757	16.70	ug/L		99
26) bromochloromethane	4.220	49	76279	20.15	ug/L		98
27) tetrahydrofuran	4.312	71	7679	19.99	ug/L		91
28) chloroform	4.391	83	229399	19.98	ug/L		100
30) 1,1,1-trichloroethane	4.647	97	232701	20.61	ug/L		99
31) cyclohexane	4.720	56	146176	22.49	ug/L		98
32) carbon tetrachloride	4.946	117	219301	20.32	ug/L		100
33) 1,1-dichloropropene	4.964	75	166107	21.20	ug/L		100
34) benzene	5.342	78	394097	20.02	ug/L		100
35) 1,2-dichloroethane	5.409	62	199199	19.94	ug/L		100
36) heptane	5.878	57	25210	No Calib			
38) trichloroethene	6.494	130	131259	20.41	ug/L		99

00478

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 20P0424.D
Acq On : 24 Apr 2012 11:16
Operator : DLV
Sample : CAL4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Apr 24 13:09:41 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

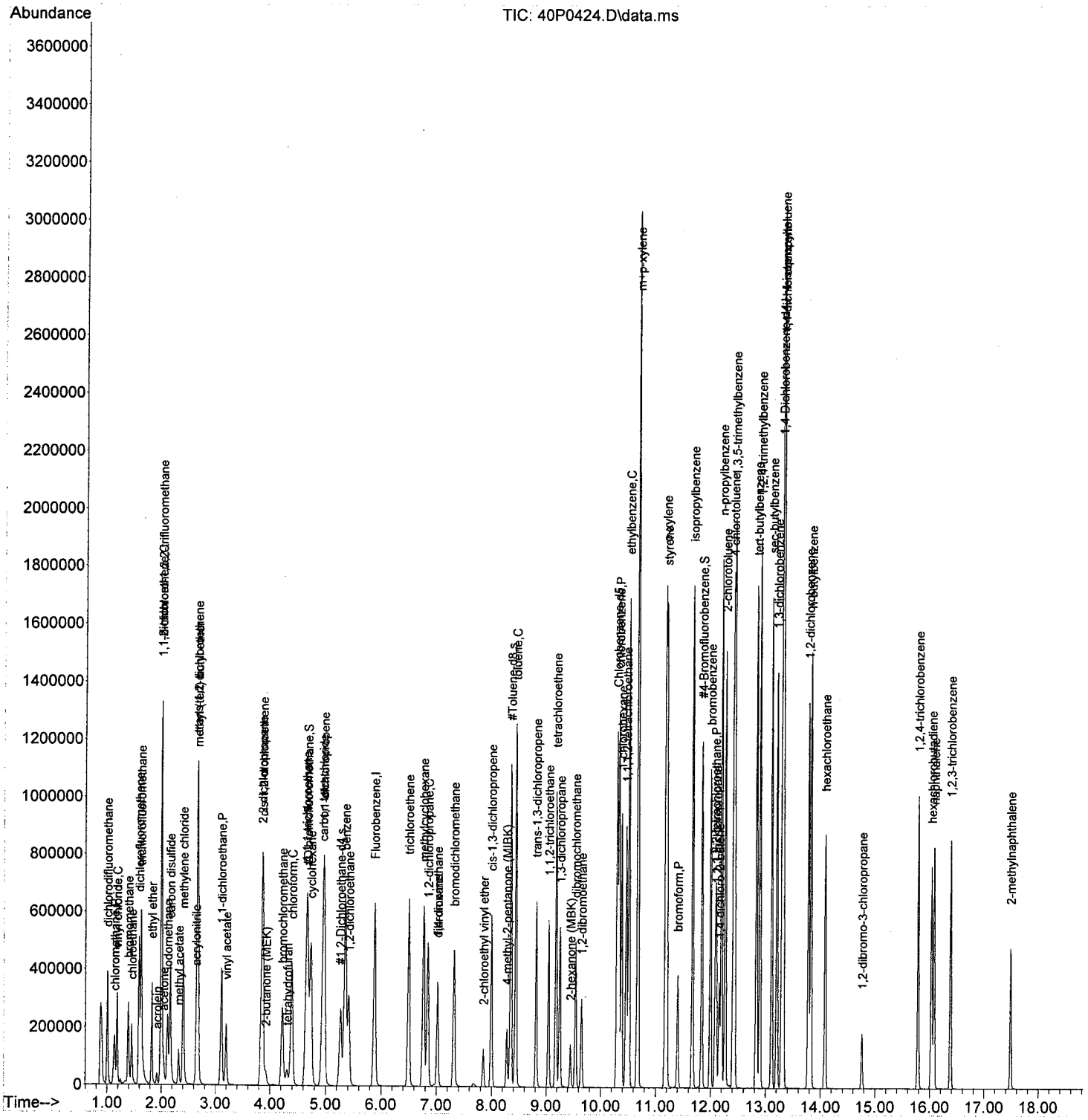
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.769	83	149608	20.85 ug/L	99
40) 1,2-dichloropropane	6.842	63	85406	19.87 ug/L	99
41) dibromomethane	7.018	93	67284	19.92 ug/L	99
42) 1,4-dioxane	7.012	88	74	25.21 ug/L #	100
43) bromodichloromethane	7.317	83	166453	19.91 ug/L	99
44) 2-chloroethyl vinyl ether	7.848	63	26267	15.48 ug/L	98
45) cis-1,3-dichloropropene	7.994	75	153442	19.13 ug/L	100
46) 4-methyl-2-pentanone (...	8.280	43	63641	19.13 ug/L	98
48) toluene	8.439	91	454651	20.02 ug/L	100
49) trans-1,3-dichloropropene	8.811	75	154877	19.84 ug/L	100
50) 1,1,2-trichloroethane	9.042	83	67617	19.85 ug/L	99
52) tetrachloroethene	9.183	166	161698	20.13 ug/L	99
53) 1,3-dichloropropane	9.250	76	153292	19.49 ug/L	99
54) 2-hexanone (MBK)	9.451	43	43784	17.55 ug/L	97
55) dibromochloromethane	9.542	129	123414	19.69 ug/L	99
56) 1,2-dibromoethane	9.652	109	91336	19.93 ug/L #	100
57) chlorobenzene	10.329	112	323508	19.28 ug/L	98
58) 1-chlorohexane	10.378	55	109310	19.81 ug/L	97
59) 1,1,1,2-tetrachloroethane	10.463	131	129825	19.67 ug/L	99
60) ethylbenzene	10.512	91	565654	20.07 ug/L	100
61) m+p-xylene	10.670	106	434590	40.56 ug/L	99
62) o-xylene	11.176	106	203309	20.68 ug/L	100
63) styrene	11.201	104	355404	19.25 ug/L	100
64) bromoform	11.402	173	80021	19.40 ug/L	100
67) isopropylbenzene	11.670	105	533486	19.55 ug/L	100
68) bromobenzene	11.993	77	210485	18.91 ug/L	97
69) 1,1,2,2-tetrachloroethane	12.078	83	107281	18.49 ug/L #	99
70) 1,2,3-trichloropropane	12.103	110	44638	18.95 ug/L	99
71) 1,4-dichloro-2-butene	12.152	53	39352	19.03 ug/L	88
72) n-propylbenzene	12.194	120	155809	20.07 ug/L	97
73) 2-chlorotoluene	12.261	126	140214	19.96 ug/L	94
74) 1,3,5-trimethylbenzene	12.432	105	487637	20.15 ug/L	99
75) 4-chlorotoluene	12.408	91	483244	20.00 ug/L	99
76) tert-butylbenzene	12.828	119	410305	20.42 ug/L	100
77) 1,2,4-trimethylbenzene	12.895	105	489438	19.88 ug/L	99
78) sec-butylbenzene	13.109	105	544514	19.93 ug/L	99
79) 1,3-dichlorobenzene	13.206	146	291037	19.32 ug/L	100
80) 4-isopropyltoluene	13.310	119	494674	19.21 ug/L	98
81) 1,4-dichlorobenzene	13.322	146	298197	19.03 ug/L	99
82) 1,2-dichlorobenzene	13.773	146	263180	19.23 ug/L	100
83) n-butylbenzene	13.822	91	376147	18.48 ug/L	100
84) hexachloroethane	14.084	201	66247	18.44 ug/L #	91
85) 1,2-dibromo-3-chloropr...	14.761	157	23549	18.47 ug/L	97
86) 1,2,4-trichlorobenzene	15.785	180	148478	19.41 ug/L	99
87) hexachlorobutadiene	16.029	225	78260	18.57 ug/L	99
88) naphthalene	16.072	128	298899	18.76 ug/L	100
89) 1,2,3-trichlorobenzene	16.383	180	131034	18.96 ug/L	99
90) 2-methylnaphthalene	17.486	142	85212	18.00 ug/L	98

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 40P0424.D
Acq On : 24 Apr 2012 11:44
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 24 13:09:46 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration



00480

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 40P0424.D
Acq On : 24 Apr 2012 11:44
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 24 13:09:46 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.879	96	739453	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.292	117	665190	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.292	152	455118	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.665	111	241401	40.20	ug/L	0.00
Spiked Amount 40.000			Recovery = 100.50%			
37) #1,2-Dichloroethane-d4	5.263	67	147052	39.91	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.77%			
47) #Toluene-d8	8.348	98	785684	40.46	ug/L	0.00
Spiked Amount 40.000			Recovery = 101.15%			
65) #4-Bromofluorobenzene	11.841	95	372431	39.71	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.28%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	311085	63.33	ug/L	100
3) chloromethane	1.136	50	207238	48.15	ug/L	100
4) vinyl chloride	1.178	62	239561	48.00	ug/L	99
5) bromomethane	1.386	94	167922	48.52	ug/L	99
6) chloroethane	1.453	64	156694	44.23	ug/L	100
7) dichlorofluoromethane	1.587	67	470194	39.95	ug/L	100
8) trichlorofluoromethane	1.623	101	559293	42.55	ug/L	99
9) ethyl ether	1.824	74	108950	45.65	ug/L	98
10) acrolein	1.922	56	25461	40.36	ug/L	98
11) 1,1,2-trichloro-1,2,2-...	1.995	101	243844	47.27	ug/L	100
12) 1,1-dichloroethene	1.995	96	227195	42.99	ug/L	99
13) acetone	2.038	43	61613	35.74	ug/L	99
14) iodomethane	2.111	142	309024	40.99	ug/L	99
15) carbon disulfide	2.160	76	565578	37.10	ug/L	100
16) methyl acetate	2.318	43	138001	43.14	ug/L	99
17) methylene chloride	2.404	49	271364	41.57	ug/L	98
18) acrylonitrile	2.635	53	67556	41.20	ug/L	99
19) trans-1,2-dichloroethene	2.654	96	247978	42.35	ug/L	98
20) methyl (tert) butyl ether	2.666	73	638201	44.42	ug/L	100
21) 1,1-dichloroethane	3.105	63	419816	42.35	ug/L	100
22) vinyl acetate	3.196	43	330168	38.67	ug/L	100
23) 2,2-dichloropropane	3.848	77	394102	45.07	ug/L	99
24) cis-1,2-dichloroethene	3.861	96	246603	43.15	ug/L	98
25) 2-butanone (MEK)	3.922	43	67307	33.04	ug/L	98
26) bromochloromethane	4.220	49	155914	40.86	ug/L	97
27) tetrahydrofuran	4.312	71	17613	41.97	ug/L	99
28) chloroform	4.391	83	476277	41.16	ug/L	99
30) 1,1,1-trichloroethane	4.647	97	488877	42.95	ug/L	100
31) cyclohexane	4.726	56	316020	48.24	ug/L	100
32) carbon tetrachloride	4.946	117	462744	42.54	ug/L	100
33) 1,1-dichloropropene	4.964	75	351992	44.57	ug/L	100
34) benzene	5.342	78	825944	41.62	ug/L	99
35) 1,2-dichloroethane	5.409	62	410834	40.80	ug/L	100
36) heptane	5.872	57	25692	No Calib		
38) trichloroethene	6.494	130	277789	42.86	ug/L	99

00481

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 40P0424.D
Acq On : 24 Apr 2012 11:44
Operator : DLV
Sample : CAL5
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Apr 24 13:09:46 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.763	83	321703	44.48 ug/L	100
40) 1,2-dichloropropane	6.842	63	182500	42.14 ug/L	100
41) dibromomethane	7.019	93	139933	41.11 ug/L	98
42) 1,4-dioxane	7.019	88	323	31.44 ug/L #	100
43) bromodichloromethane	7.317	83	356357	42.29 ug/L	100
44) 2-chloroethyl vinyl ether	7.848	63	55515	27.59 ug/L	99
45) cis-1,3-dichloropropene	7.994	75	332003	40.27 ug/L	100
46) 4-methyl-2-pentanone (...	8.274	43	137437	37.12 ug/L	99
48) toluene	8.439	91	954159	41.68 ug/L	99
49) trans-1,3-dichloropropene	8.811	75	344980	40.13 ug/L	99
50) 1,1,2-trichloroethane	9.043	83	142116	41.39 ug/L	100
52) tetrachloroethene	9.183	166	340436	41.65 ug/L	99
53) 1,3-dichloropropane	9.256	76	325450	40.67 ug/L	100
54) 2-hexanone (MBK)	9.451	43	96434	38.00 ug/L	98
55) dibromochloromethane	9.542	129	267167	41.89 ug/L	100
56) 1,2-dibromoethane	9.652	109	191804	41.14 ug/L #	100
57) chlorobenzene	10.329	112	680461	39.86 ug/L	100
58) 1-chlorohexane	10.378	55	226952	40.43 ug/L	100
59) 1,1,1,2-tetrachloroethane	10.463	131	274808	40.93 ug/L	99
60) ethylbenzene	10.512	91	1198092	41.79 ug/L	99
61) m+p-xylene	10.676	106	917571	84.17 ug/L	99
62) o-xylene	11.176	106	436608	43.65 ug/L	99
63) styrene	11.201	104	755277	39.35 ug/L	100
64) bromoform	11.402	173	179982	42.89 ug/L	100
67) isopropylbenzene	11.670	105	1152361	39.91 ug/L	100
68) bromobenzene	11.993	77	446080	39.02 ug/L	98
69) 1,1,2,2-tetrachloroethane	12.079	83	229305	38.47 ug/L #	99
70) 1,2,3-trichloropropane	12.103	110	96844	40.02 ug/L	97
71) 1,4-dichloro-2-butene	12.152	53	87715	38.32 ug/L	92
72) n-propylbenzene	12.194	120	334606	41.96 ug/L	96
73) 2-chlorotoluene	12.268	126	296745	41.11 ug/L	97
74) 1,3,5-trimethylbenzene	12.432	105	1040260	41.84 ug/L	99
75) 4-chlorotoluene	12.408	91	1023692	41.24 ug/L	99
76) tert-butylbenzene	12.835	119	888964	43.07 ug/L	100
77) 1,2,4-trimethylbenzene	12.895	105	1054409	41.69 ug/L	100
78) sec-butylbenzene	13.109	105	1167334	41.59 ug/L	99
79) 1,3-dichlorobenzene	13.206	146	619836	40.06 ug/L	100
80) 4-isopropyltoluene	13.310	119	1065956	40.30 ug/L	99
81) 1,4-dichlorobenzene	13.322	146	623383	38.73 ug/L	99
82) 1,2-dichlorobenzene	13.773	146	569144	40.49 ug/L	100
83) n-butylbenzene	13.822	91	820840	37.45 ug/L	100
84) hexachloroethane	14.084	201	150009	37.38 ug/L	94
85) 1,2-dibromo-3-chloropr...	14.761	157	55007	41.99 ug/L	100
86) 1,2,4-trichlorobenzene	15.785	180	326711	41.57 ug/L	100
87) hexachlorobutadiene	16.029	225	166735	38.52 ug/L	99
88) naphthalene	16.078	128	687030	38.32 ug/L	100
89) 1,2,3-trichlorobenzene	16.383	180	291732	41.09 ug/L	99
90) 2-methylnaphthalene	17.486	142	228983	42.51 ug/L	100

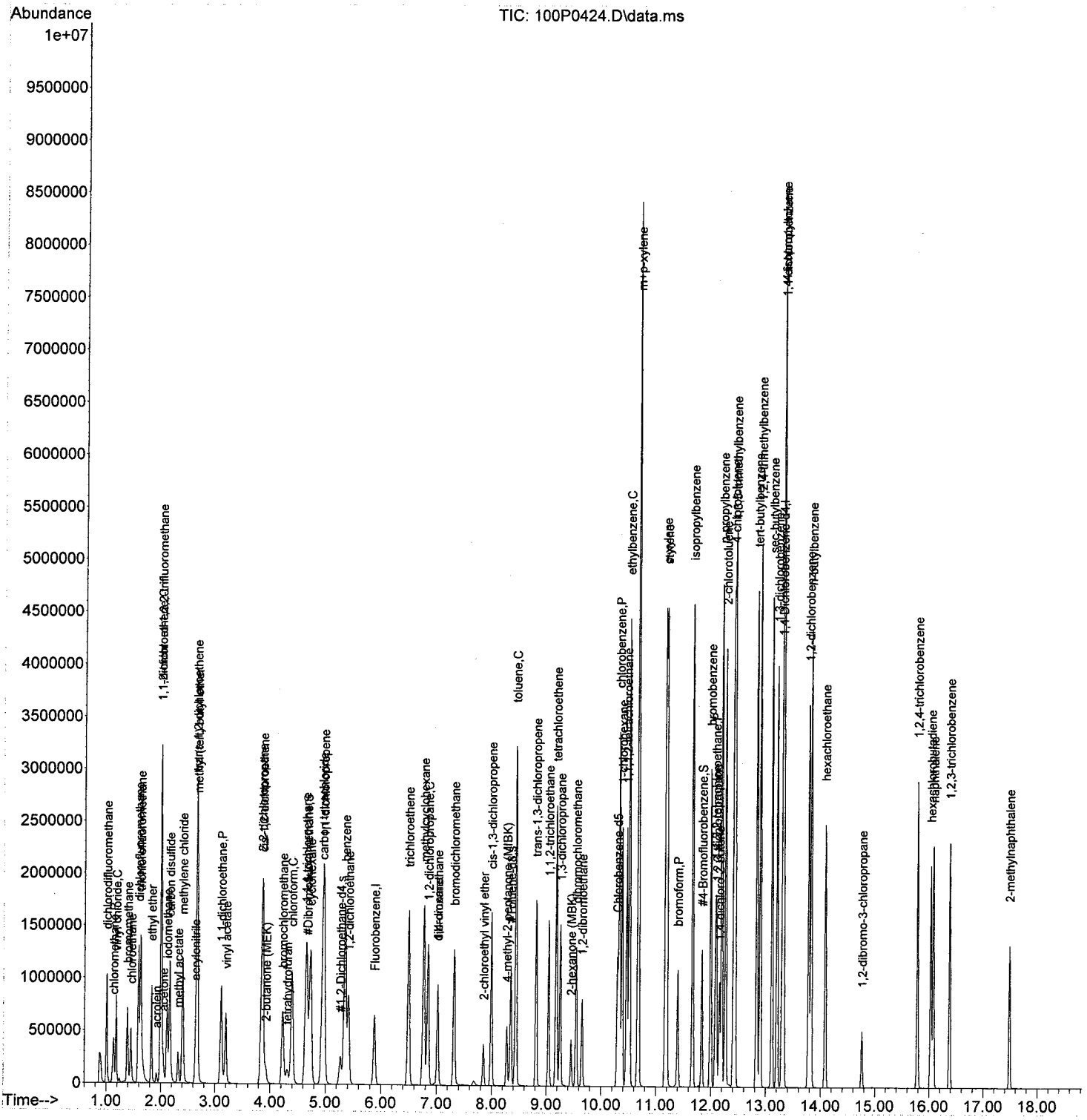
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00482

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 100P0424.D
Acq On : 24 Apr 2012 12:12
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 24 13:09:07 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration



00483

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 100P0424.D
Acq On : 24 Apr 2012 12:12
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 24 13:09:07 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.878	96	763355	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.292	117	688859	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	475428	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.671	111	246407	39.75	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.38%			
37) #1,2-Dichloroethane-d4	5.269	67	148654	39.08	ug/L	0.00
Spiked Amount 40.000			Recovery = 97.70%			
47) #Toluene-d8	8.347	98	809927	40.40	ug/L	0.00
Spiked Amount 40.000			Recovery = 101.00%			
65) #4-Bromofluorobenzene	11.841	95	391999	40.36	ug/L	0.00
Spiked Amount 40.000			Recovery = 100.90%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	786594	155.12	ug/L	99
3) chloromethane	1.129	50	521607	117.39	ug/L	100
4) vinyl chloride	1.178	62	614450	119.25	ug/L	99
5) bromomethane	1.385	94	445365	124.65	ug/L	99
6) chloroethane	1.452	64	401657	109.84	ug/L	99
7) dichlorofluoromethane	1.586	67	1201554	98.89	ug/L	100
8) trichlorofluoromethane	1.623	101	1407666	103.74	ug/L	100
9) ethyl ether	1.824	74	289406	117.47	ug/L	99
10) acrolein	1.916	56	67087	103.02	ug/L	100
11) 1,1,2-trichloro-1,2,2-...	1.995	101	619779	116.38	ug/L	100
12) 1,1-dichloroethene	1.995	96	588699	107.90	ug/L	97
13) acetone	2.044	43	162885	96.26	ug/L	100
14) iodomethane	2.111	142	934882	113.22	ug/L	98
15) carbon disulfide	2.160	76	1579031	100.33	ug/L	100
16) methyl acetate	2.318	43	338834	102.60	ug/L	100
17) methylene chloride	2.403	49	709483	106.28	ug/L	98
18) acrylonitrile	2.635	53	169757	100.29	ug/L	100
19) trans-1,2-dichloroethene	2.653	96	634259	104.93	ug/L	99
20) methyl (tert) butyl ether	2.672	73	1708071	115.15	ug/L	100
21) 1,1-dichloroethane	3.111	63	1086008	106.12	ug/L	100
22) vinyl acetate	3.196	43	1007835	114.34	ug/L	100
23) 2,2-dichloropropane	3.848	77	1044951	115.75	ug/L	99
24) cis-1,2-dichloroethene	3.866	96	649484	110.09	ug/L	98
25) 2-butanone (MEK)	3.921	43	186657	88.76	ug/L	100
26) bromochloromethane	4.220	49	411054	104.36	ug/L	98
27) tetrahydrofuran	4.305	71	46621	103.27	ug/L	98
28) chloroform	4.391	83	1250133	104.66	ug/L	100
30) 1,1,1-trichloroethane	4.647	97	1272857	108.34	ug/L	100
31) cyclohexane	4.726	56	833375	123.24	ug/L	100
32) carbon tetrachloride	4.946	117	1211904	107.91	ug/L	100
33) 1,1-dichloropropene	4.970	75	914010	112.10	ug/L	100
34) benzene	5.348	78	2166809	105.78	ug/L	99
35) 1,2-dichloroethane	5.409	62	1087389	104.62	ug/L	100
36) heptane	5.878	57	26106	No Calib		
38) trichloroethene	6.494	130	723100	108.07	ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 100P0424.D
Acq On : 24 Apr 2012 12:12
Operator : DLV
Sample : CAL6
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Apr 24 13:09:07 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 17 07:33:37 2012
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	methylcyclohexane	6.768	83	884079	118.42	ug/L		99
40)	1,2-dichloropropane	6.842	63	485469	108.58	ug/L		100
41)	dibromomethane	7.018	93	375207	106.78	ug/L		99
42)	1,4-dioxane	7.018	88	1341	55.92	ug/L	#	100
43)	bromodichloromethane	7.317	83	965421	110.99	ug/L		100
44)	2-chloroethyl vinyl ether	7.847	63	168518	72.51	ug/L		99
45)	cis-1,3-dichloropropene	7.994	75	927769	107.81	ug/L		99
46)	4-methyl-2-pentanone (...	8.274	43	387957	95.64	ug/L		99
48)	toluene	8.439	91	2504005	105.96	ug/L		100
49)	trans-1,3-dichloropropene	8.811	75	981088	105.18	ug/L		99
50)	1,1,2-trichloroethane	9.042	83	383013	108.06	ug/L		100
52)	tetrachloroethene	9.183	166	878518	103.79	ug/L		99
53)	1,3-dichloropropane	9.256	76	877915	105.93	ug/L		100
54)	2-hexanone (MBK)	9.451	43	277731	105.68	ug/L		99
55)	dibromochloromethane	9.548	129	749175	113.43	ug/L		100
56)	1,2-dibromoethane	9.652	109	516152	106.90	ug/L	#	100
57)	chlorobenzene	10.329	112	1794347	101.51	ug/L		100
58)	1-chlorohexane	10.377	55	606053	104.27	ug/L		99
59)	1,1,1,2-tetrachloroethane	10.463	131	757575	108.95	ug/L		100
60)	ethylbenzene	10.512	91	3178420	107.06	ug/L		100
61)	m+p-xylene	10.676	106	2433860	215.60	ug/L		99
62)	o-xylene	11.176	106	1178361	113.76	ug/L		99
63)	styrene	11.200	104	2063609	102.55	ug/L		99
64)	bromoform	11.402	173	516167	118.78	ug/L		99
67)	isopropylbenzene	11.670	105	3118618	101.66	ug/L		100
68)	bromobenzene	11.993	77	1213298	101.59	ug/L		98
69)	1,1,2,2-tetrachloroethane	12.084	83	609918	97.96	ug/L	#	100
70)	1,2,3-trichloropropane	12.103	110	250714	99.17	ug/L		97
71)	1,4-dichloro-2-butene	12.151	53	243301	97.54	ug/L		98
72)	n-propylbenzene	12.200	120	899729	108.02	ug/L		98
73)	2-chlorotoluene	12.267	126	794364	105.36	ug/L		99
74)	1,3,5-trimethylbenzene	12.438	105	2840098	109.34	ug/L		100
75)	4-chlorotoluene	12.414	91	2789118	107.57	ug/L		100
76)	tert-butylbenzene	12.834	119	2433403	112.87	ug/L		100
77)	1,2,4-trimethylbenzene	12.895	105	2888906	109.35	ug/L		100
78)	sec-butylbenzene	13.109	105	3234804	110.34	ug/L		99
79)	1,3-dichlorobenzene	13.206	146	1688576	104.48	ug/L		100
80)	4-isopropyltoluene	13.310	119	2964031	107.26	ug/L		100
81)	1,4-dichlorobenzene	13.322	146	1696119	100.86	ug/L		100
82)	1,2-dichlorobenzene	13.779	146	1569106	106.87	ug/L		100
83)	n-butylbenzene	13.822	91	2309270	98.13	ug/L		100
84)	hexachloroethane	14.084	201	447603	101.71	ug/L		99
85)	1,2-dibromo-3-chloropr...	14.761	157	150742	110.15	ug/L		99
86)	1,2,4-trichlorobenzene	15.785	180	928062	113.04	ug/L		100
87)	hexachlorobutadiene	16.029	225	451137	99.77	ug/L		99
88)	naphthalene	16.078	128	1923918	97.76	ug/L		100
89)	1,2,3-trichlorobenzene	16.382	180	789428	106.44	ug/L		100
90)	2-methylnaphthalene	17.486	142	644403	109.72	ug/L		99

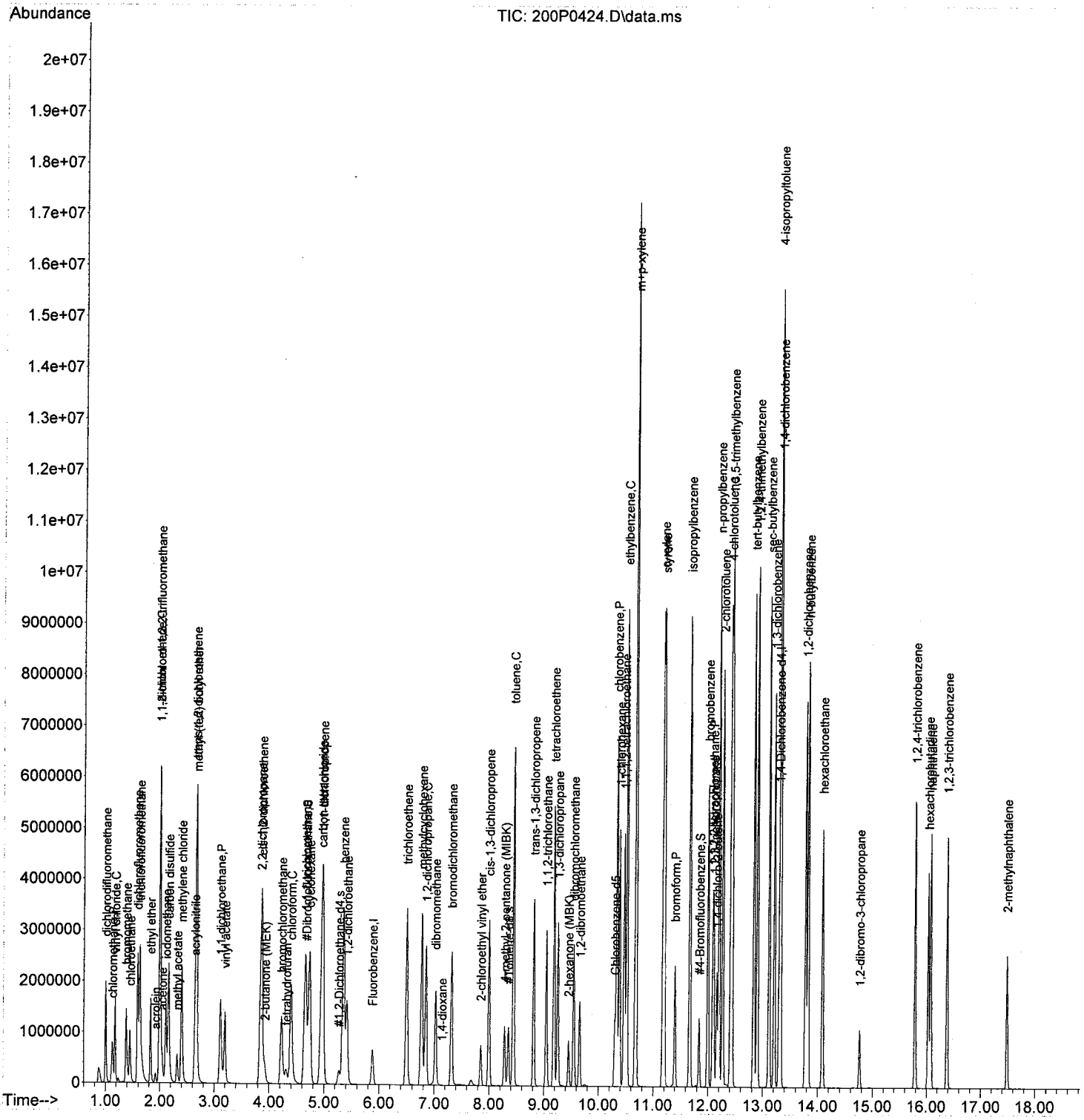
(#) = qualifier out of range (m) = manual integration (+) = signals summed

00485

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 200P0424.D
Acq On : 24 Apr 2012 13:07
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 24 13:55:44 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 24 13:13:15 2012
Response via : Initial Calibration



00486

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 200P0424.D
Acq On : 24 Apr 2012 13:07
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 24 13:55:44 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 24 13:13:15 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.879	96	794724	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.298	117	726484	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	503266	40.00	ug/L	0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.671	111	255602	39.61	ug/L	0.00
Spiked Amount 40.000			Recovery = 99.02%			
37) #1,2-Dichloroethane-d4	5.269	67	155059	39.16	ug/L	0.00
Spiked Amount 40.000			Recovery = 97.90%			
47) #Toluene-d8	8.354	98	846289	40.55	ug/L	0.00
Spiked Amount 40.000			Recovery = 101.38%			
65) #4-Bromofluorobenzene	11.841	95	409799	40.01	ug/L	0.00
Spiked Amount 40.000			Recovery = 100.02%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.001	85	1530768	289.96	ug/L	100
3) chloromethane	1.129	50	964358	208.46	ug/L	100
4) vinyl chloride	1.178	62	1193439	222.48	ug/L	100
5) bromomethane	1.379	94	926665	249.11	ug/L	99
6) chloroethane	1.446	64	804828	211.40	ug/L	100
7) dichlorofluoromethane	1.581	67	2415080	190.92	ug/L	100
8) trichlorofluoromethane	1.623	101	2861866	202.59	ug/L	100
9) ethyl ether	1.824	74	570277	222.34	ug/L	99
10) acrolein	1.922	56	135363	199.65	ug/L	99
11) 1,1,2-trichloro-1,2,2-...	1.995	101	1266331	228.40	ug/L	100
12) 1,1-dichloroethene	1.995	96	1187912	209.14	ug/L	98
13) acetone	2.044	43	321281	185.08	ug/L	100
14) iodomethane	2.111	142	1917478	219.59	ug/L	98
15) carbon disulfide	2.160	76	3264910	199.26	ug/L	100
16) methyl acetate	2.318	43	690448	200.82	ug/L	100
17) methylene chloride	2.397	49	1402206	202.34	ug/L	98
18) acrylonitrile	2.641	53	338469	192.06	ug/L	100
19) trans-1,2-dichloroethene	2.660	96	1290396	205.05	ug/L	99
20) methyl (tert) butyl ether	2.672	73	3467429	224.53	ug/L	100
21) 1,1-dichloroethane	3.111	63	2191549	205.69	ug/L	100
22) vinyl acetate	3.196	43	2081435	226.83	ug/L	100
23) 2,2-dichloropropane	3.848	77	2136785	227.35	ug/L	100
24) cis-1,2-dichloroethene	3.867	96	1303453	212.21	ug/L	98
25) 2-butanone (MEK)	3.928	43	373495	170.60	ug/L	100
26) bromochloromethane	4.226	49	801122	195.37	ug/L	98
27) tetrahydrofuran	4.312	71	97409	204.45	ug/L	97
28) chloroform	4.397	83	2530645	203.50	ug/L	100
30) 1,1,1-trichloroethane	4.653	97	2643752	216.13	ug/L	100
31) cyclohexane	4.732	56	1694490	240.69	ug/L	99
32) carbon tetrachloride	4.952	117	2534500	216.77	ug/L	100
33) 1,1-dichloropropene	4.970	75	1891097	222.79	ug/L	100
34) benzene	5.348	78	4384497	205.59	ug/L	100
35) 1,2-dichloroethane	5.415	62	2181784	201.63	ug/L	100
36) heptane	5.885	57	27744	No Calib		
38) trichloroethene	6.500	130	1480116	212.47	ug/L	99

00487

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : 200P0424.D
Acq On : 24 Apr 2012 13:07
Operator : DLV
Sample : CAL7
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Apr 24 13:55:44 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB59.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 24 13:13:15 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39) methylcyclohexane	6.769	83	1745351	224.55	ug/L		99
40) 1,2-dichloropropane	6.848	63	979873	210.51	ug/L		100
41) dibromomethane	7.019	93	732406	200.21	ug/L		98
42) 1,4-dioxane	7.140	88	78	25.16	ug/L	#	100
43) bromodichloromethane	7.317	83	1976802	218.30	ug/L		100
44) 2-chloroethyl vinyl ether	7.848	63	353734	141.69	ug/L		99
45) cis-1,3-dichloropropene	7.994	75	1876841	208.83	ug/L		99
46) 4-methyl-2-pentanone (...	8.280	43	807529	187.84	ug/L		99
48) toluene	8.445	91	5139817	208.92	ug/L		100
49) trans-1,3-dichloropropene	8.817	75	2032503	206.26	ug/L		99
50) 1,1,2-trichloroethane	9.043	83	767125	207.88	ug/L		99
52) tetrachloroethene	9.183	166	1797988	201.42	ug/L		99
53) 1,3-dichloropropane	9.256	76	1769092	202.40	ug/L		100
54) 2-hexanone (MBK)	9.451	43	577993	208.54	ug/L		100
55) dibromochloromethane	9.549	129	1544413	221.72	ug/L		100
56) 1,2-dibromoethane	9.658	109	1050248	206.25	ug/L	#	100
57) chlorobenzene	10.335	112	3658821	196.27	ug/L		100
58) 1-chlorohexane	10.384	55	1239487	202.20	ug/L		99
59) 1,1,1,2-tetrachloroethane	10.469	131	1546965	210.95	ug/L		100
60) ethylbenzene	10.518	91	6594145	210.62	ug/L		100
61) m+p-xylene	10.682	106	5031654	422.63	ug/L		99
62) o-xylene	11.182	106	2409337	220.55	ug/L		99
63) styrene	11.207	104	4213600	197.81	ug/L		99
64) bromoform	11.402	173	1098919	239.78	ug/L		100
67) isopropylbenzene	11.670	105	6410376	196.37	ug/L		100
68) bromobenzene	11.999	77	2456698	194.32	ug/L		98
69) 1,1,2,2-tetrachloroethane	12.085	83	1249128	189.53	ug/L	#	99
70) 1,2,3-trichloropropane	12.103	110	506400	189.23	ug/L		98
71) 1,4-dichloro-2-butene	12.158	53	504675	188.70	ug/L		95
72) n-propylbenzene	12.200	120	1812633	205.58	ug/L		99
73) 2-chlorotoluene	12.274	126	1598933	200.34	ug/L		98
74) 1,3,5-trimethylbenzene	12.438	105	5748436	209.07	ug/L		100
75) 4-chlorotoluene	12.414	91	5645938	205.71	ug/L		100
76) tert-butylbenzene	12.834	119	4926474	215.87	ug/L		99
77) 1,2,4-trimethylbenzene	12.902	105	5862592	209.63	ug/L		100
78) sec-butylbenzene	13.115	105	6487222	209.03	ug/L		100
79) 1,3-dichlorobenzene	13.212	146	3398462	198.65	ug/L		100
80) 4-isopropyltoluene	13.316	119	5978463	204.38	ug/L		100
81) 1,4-dichlorobenzene	13.328	146	3391921	190.55	ug/L		100
82) 1,2-dichlorobenzene	13.779	146	3155461	203.02	ug/L		100
83) n-butylbenzene	13.822	91	4604286	183.42	ug/L		100
84) hexachloroethane	14.090	201	938285	198.75	ug/L		98
85) 1,2-dibromo-3-chloropr...	14.761	157	324489	224.00	ug/L		100
86) 1,2,4-trichlorobenzene	15.791	180	1889842	217.45	ug/L		99
87) hexachlorobutadiene	16.029	225	893641	186.69	ug/L		100
88) naphthalene	16.078	128	4004891	189.39	ug/L		100
89) 1,2,3-trichlorobenzene	16.383	180	1610460	205.13	ug/L		100
90) 2-methylnaphthalene	17.486	142	1278506	203.17	ug/L		100

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

00488

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Laboratory ID: 2D27026-SCV1
Standard ID: 2041016
Sequence: 2D27026
Calibration: 2D27003

Analyte	Expected (ug/L)	Found (ug/L)	% Rec.	QC Limit
Acetone	40.0	41.1	103	75-125
Benzene	40.0	41.5	104	75-125
Bromodichloromethane	40.0	39.9	100	75-125
Bromoform	40.0	37.7	94	75-125
Bromomethane	40.0	41.9	105	75-125
Carbon Disulfide	40.0	42.0	105	75-125
Carbon Tetrachloride	40.0	42.5	106	75-125
Chlorobenzene	40.0	40.0	100	75-125
Chloroethane	40.0	38.4	96	75-125
Chloroform	40.0	40.4	101	75-125
Chloromethane	40.0	38.9	97	75-125
Cyclohexane	40.0	44.4	111	75-125
1,2-Dibromo-3-chloropropane	40.0	37.6	94	75-125
Dibromochloromethane	40.0	41.7	104	75-125
1,2-Dibromoethane	40.0	41.4	104	75-125
1,2-Dichlorobenzene	40.0	41.0	103	75-125
1,3-Dichlorobenzene	40.0	40.4	101	75-125
1,4-Dichlorobenzene	40.0	39.8	100	75-125
Dichlorodifluoromethane	40.0	41.4	104	75-125
1,1-Dichloroethane	40.0	40.8	102	75-125
1,2-Dichloroethane	40.0	40.5	101	75-125
1,1-Dichloroethene	40.0	37.5	94	75-125
cis-1,2-Dichloroethene	40.0	42.6	107	75-125
trans-1,2-Dichloroethene	40.0	39.4	99	75-125
1,2-Dichloropropane	40.0	40.7	102	75-125
cis-1,3-Dichloropropene	40.0	40.0	100	75-125
trans-1,3-Dichloropropene	40.0	35.3	88	75-125

00489

SECOND-SOURCE CALIBRATION VERIFICATION

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
Client: TechLaw
Laboratory ID: 2D27026-SCV1
Sequence: 2D27026

SDG: KNM050112
Project: KNM
Standard ID: 2041016
Calibration: 2D27003

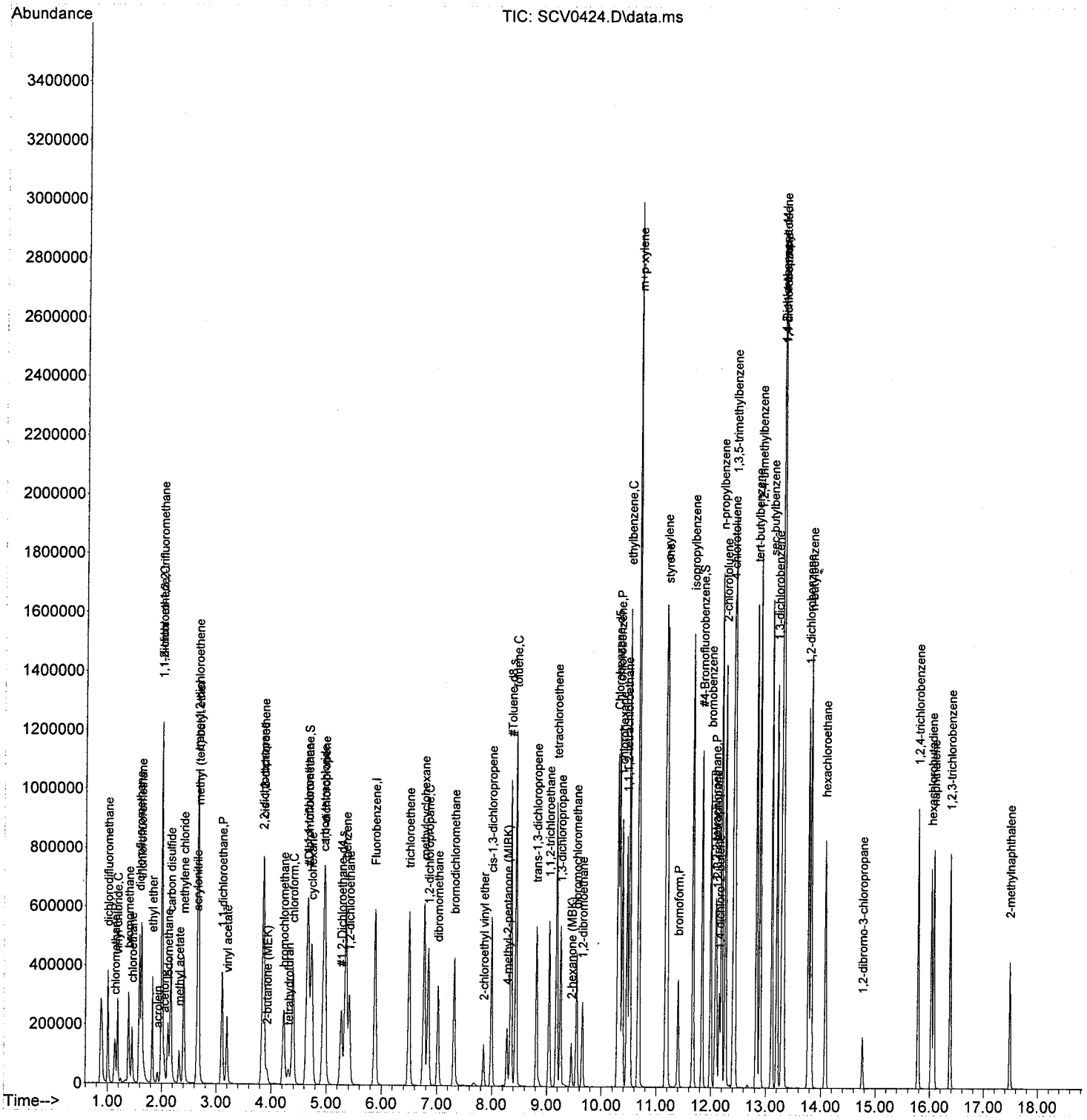
Analyte	Expected (ug/L)	Found (ug/L)	% Rec.	QC Limit
Ethylbenzene	40.0	42.0	105	75-125
2-Hexanone	40.0	40.2	101	75-125
Isopropylbenzene	40.0	40.6	102	75-125
Methyl Acetate	40.0	38.8	97	75-125
Methyl tert-Butyl Ether	40.0	42.8	107	75-125
Methylcyclohexane	40.0	44.6	112	75-125
Methylene Chloride	40.0	39.9	100	75-125
2-Butanone (MEK)	40.0	43.0	108	75-125
4-Methyl-2-pentanone (MIBK)	40.0	40.9	102	75-125
Styrene	40.0	42.9	107	75-125
1,1,2,2-Tetrachloroethane	40.0	40.7	102	75-125
Tetrachloroethene	40.0	40.6	102	75-125
Toluene	40.0	41.5	104	75-125
1,2,4-Trichlorobenzene	40.0	41.6	104	75-125
1,1,1-Trichloroethane	40.0	42.1	105	75-125
1,1,2-Trichloroethane	40.0	41.8	105	75-125
Trichloroethene	40.0	40.4	101	75-125
Trichlorofluoromethane	40.0	39.3	98	75-125
1,1,2-Trichloro-1,2,2-trifluoroethane	40.0	41.8	105	75-125
Vinyl Chloride	40.0	39.6	99	75-125
Xylene (Total)	120	128	107	75-125
Dibromofluoromethane	40.0	40.5	101	75-125
1,2-Dichloroethane-d4	40.0	40.9	102	75-125
Toluene-d8	40.0	40.6	102	75-125
4-Bromofluorobenzene	40.0	40.5	101	75-125

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : SCV0424.D
Acq On : 24 Apr 2012 14:31
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 24 14:50:05 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 24 13:59:48 2012
Response via : Initial Calibration



00491

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : SCV0424.D
Acq On : 24 Apr 2012 14:31
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 24 14:50:05 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 24 13:59:48 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.879	96	695121	40.00	ug/L	0.00
51) Chlorobenzene-d5	10.292	117	626714	40.00	ug/L	0.00
66) 1,4-Dichlorobenzene-d4	13.298	152	432653	40.00	ug/L	# 0.00
System Monitoring Compounds						
29) #Dibromofluoromethane	4.665	111	228365	40.52	ug/L	0.00
Spiked Amount 40.000			Recovery = 101.30%			
37) #1,2-Dichloroethane-d4	5.269	67	139920	40.87	ug/L	0.00
Spiked Amount 40.000			Recovery = 102.18%			
47) #Toluene-d8	8.348	98	739478	40.57	ug/L	0.00
Spiked Amount 40.000			Recovery = 101.43%			
65) #4-Bromofluorobenzene	11.841	95	354984	40.52	ug/L	0.00
Spiked Amount 40.000			Recovery = 101.30%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	1.002	85	304656	41.42	ug/L	100
3) chloromethane	1.136	50	184682	38.90	ug/L	99
4) vinyl chloride	1.178	62	219472	39.65	ug/L	100
5) bromomethane	1.386	94	181830	41.90	ug/L	99
6) chloroethane	1.453	64	139845	38.45	ug/L	98
7) dichlorofluoromethane	1.587	67	455302	41.79	ug/L	100
8) trichlorofluoromethane	1.623	101	505229	39.29	ug/L	99
9) ethyl ether	1.825	74	110984	44.41	ug/L	100
10) acrolein	1.922	56	24099	43.07	ug/L #	97
11) 1,1,2-trichloro-1,2,2-...	1.995	101	234491	41.76	ug/L	99
12) 1,1-dichloroethene	1.995	96	195847	37.54	ug/L	98
13) acetone	2.044	43	66967	41.10	ug/L	99
14) iodomethane	2.111	142	263736	33.83	ug/L	99
15) carbon disulfide	2.160	76	584358	41.99	ug/L	100
16) methyl acetate	2.318	43	125822	38.75	ug/L	98
17) methylene chloride	2.404	49	252101	39.92	ug/L	99
18) acrylonitrile	2.641	53	61120	41.57	ug/L	99
19) trans-1,2-dichloroethene	2.654	96	225087	39.37	ug/L	100
20) methyl (tert) butyl ether	2.672	73	609735	42.77	ug/L	100
21) 1,1-dichloroethane	3.105	63	388573	40.76	ug/L	99
22) vinyl acetate	3.196	43	346066	44.47	ug/L	100
23) 2,2-dichloropropane	3.849	77	377185	43.00	ug/L	99
24) cis-1,2-dichloroethene	3.861	96	235635	42.63	ug/L	100
25) 2-butanone (MEK)	3.922	43	67617	43.01	ug/L	97
26) bromochloromethane	4.220	49	144929	39.70	ug/L	100
27) tetrahydrofuran	4.312	71	16201	39.74	ug/L	96
28) chloroform	4.391	83	446437	40.38	ug/L	99
30) 1,1,1-trichloroethane	4.653	97	465865	42.06	ug/L	100
31) cyclohexane	4.726	56	302524	44.37	ug/L	99
32) carbon tetrachloride	4.946	117	438949	42.53	ug/L	99
33) 1,1-dichloropropene	4.970	75	323439	41.40	ug/L	100
34) benzene	5.348	78	779546	41.47	ug/L	99
35) 1,2-dichloroethane	5.409	62	383675	40.51	ug/L	99
36) heptane	5.879	57	24369	No Calib		
38) trichloroethene	6.494	130	254792	40.45	ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\04-24-12\
InstName : 328
Data File : SCV0424.D
Acq On : 24 Apr 2012 14:31
Operator : DLV
Sample : SCV1
Misc :
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Apr 24 14:50:05 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Tue Apr 24 13:59:48 2012
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	methylcyclohexane	6.769	83	309995	44.61	ug/L		99
40)	1,2-dichloropropane	6.842	63	168688	40.73	ug/L		99
41)	dibromomethane	7.019	93	129791	40.06	ug/L		100
42)	1,4-dioxane	0.000		0	N.D.			
43)	bromodichloromethane	7.317	83	320398	39.91	ug/L		100
44)	2-chloroethyl vinyl ether	7.848	63	58920	41.35	ug/L		99
45)	cis-1,3-dichloropropene	7.994	75	322634	40.00	ug/L		99
46)	4-methyl-2-pentanone (...	8.281	43	136656	40.93	ug/L		97
48)	toluene	8.439	91	904875	41.51	ug/L		100
49)	trans-1,3-dichloropropene	8.811	75	297647	35.30	ug/L		98
50)	1,1,2-trichloroethane	9.043	83	135059	41.79	ug/L		99
52)	tetrachloroethene	9.183	166	316611	40.63	ug/L		100
53)	1,3-dichloropropane	9.256	76	308192	42.17	ug/L		100
54)	2-hexanone (MBK)	9.451	43	94683	40.17	ug/L		99
55)	dibromochloromethane	9.543	129	245549	41.72	ug/L		100
56)	1,2-dibromoethane	9.652	109	178523	41.42	ug/L	#	100
57)	chlorobenzene	10.329	112	630627	39.96	ug/L		99
58)	1-chlorohexane	10.378	55	219199	42.73	ug/L		98
59)	1,1,1,2-tetrachloroethane	10.463	131	259969	41.83	ug/L		99
60)	ethylbenzene	10.512	91	1124792	42.05	ug/L		100
61)	m+p-xylene	10.676	106	862628	84.49	ug/L		100
62)	o-xylene	11.176	106	410699	43.51	ug/L		100
63)	styrene	11.201	104	708251	42.93	ug/L		99
64)	bromoform	11.402	173	168281	37.66	ug/L		100
67)	isopropylbenzene	11.670	105	1023614	40.63	ug/L		99
68)	bromobenzene	11.993	77	421748	40.22	ug/L		100
69)	1,1,2,2-tetrachloroethane	12.079	83	212009	40.73	ug/L	#	98
70)	1,2,3-trichloropropane	12.103	110	89190	41.55	ug/L		99
71)	1,4-dichloro-2-butene	12.152	53	77231	36.67	ug/L		98
72)	n-propylbenzene	12.194	120	312956	42.25	ug/L		98
73)	2-chlorotoluene	12.268	126	280717	41.27	ug/L		99
74)	1,3,5-trimethylbenzene	12.432	105	1017264	43.64	ug/L		100
75)	4-chlorotoluene	12.408	91	964762	41.28	ug/L		100
76)	tert-butylbenzene	12.835	119	851317	43.69	ug/L		100
77)	1,2,4-trimethylbenzene	12.896	105	1008179	43.37	ug/L		100
78)	sec-butylbenzene	13.109	105	1122594	43.54	ug/L		100
79)	1,3-dichlorobenzene	13.206	146	584685	40.42	ug/L		100
80)	4-isopropyltoluene	13.310	119	966167	39.71	ug/L		99
81)	1,4-dichlorobenzene	13.322	146	597880	39.82	ug/L		99
82)	1,2-dichlorobenzene	13.773	146	534301	40.99	ug/L		100
83)	n-butylbenzene	13.822	91	784828	39.64	ug/L		100
84)	hexachloroethane	14.084	201	140352	36.82	ug/L	#	92
85)	1,2-dibromo-3-chloropr...	14.761	157	49709	37.64	ug/L		98
86)	1,2,4-trichlorobenzene	15.785	180	305683	41.56	ug/L		100
87)	hexachlorobutadiene	16.029	225	156313	38.40	ug/L		99
88)	naphthalene	16.078	128	627986	38.32	ug/L		100
89)	1,2,3-trichlorobenzene	16.383	180	268107	41.63	ug/L		100
90)	2-methylnaphthalene	17.486	142	200708	37.85	ug/L		99

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

CONTINUING CALIBRATION CHECK

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Lab Sample ID: 2E11012-CCV1
Lab File ID: CCV0510.D
Injection Date: 05/10/12
Injection Time: 08:37
Calibration Date: 04/24/12 00:00
Calibration: 2D27003
Sequence: 2E11012
Instrument ID: 328

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	40.0	34.7	9.376052E-02	8.126327E-02		-13.3	40
Benzene	A	40.0	41.7	1.081644	1.1276		4.2	25
Bromodichloromethane	A	40.0	40.6	0.4619317	0.4689495		1.5	25
Bromoform	L	40.0	37.7	0.2479804	0.2687772	0.1	-5.8	25
Bromomethane	A	40.0	39.5	0.2497073	0.2464865		-1.3	25
Carbon Disulfide	A	40.0	43.1	0.8008803	0.8624116		7.7	25
Carbon Tetrachloride	A	40.0	41.2	0.5939257	0.6113836		2.9	25
Chlorobenzene	A	40.0	43.3	1.007251	1.089398	0.3	8.2	25
Chloroethane	A	40.0	45.0	0.2093003	0.2355327		12.5	25
Chloroform	A	40.0	40.1	0.6362408	0.6381456		0.3	20
Chloromethane	A	40.0	44.2	0.2731912	0.301831	0.1	10.5	25
Cyclohexane	A	40.0	45.0	0.3923883	0.4415928		12.5	25
1,2-Dibromo-3-chloropropane	L	40.0	35.8	0.1049203	0.1090096		-10.4	25
Dibromochloromethane	A	40.0	43.9	0.3756774	0.4125587		9.8	25
1,2-Dibromoethane	A	40.0	43.2	0.2750653	0.2968997		7.9	25
1,2-Dichlorobenzene	A	40.0	44.1	1.205247	1.329381		10.3	25
1,3-Dichlorobenzene	A	40.0	43.7	1.337414	1.461479		9.3	25
1,4-Dichlorobenzene	A	40.0	42.9	1.388065	1.488267		7.2	25
Dichlorodifluoromethane	A	40.0	44.7	0.4232093	0.472912		11.7	25
1,1-Dichloroethane	A	40.0	40.8	0.548617	0.5599129	0.1	2.1	25
1,2-Dichloroethane	A	40.0	40.5	0.5449613	0.5521896		1.3	25
1,1-Dichloroethene	A	40.0	43.4	0.3002237	0.3254582		8.4	20
cis-1,2-Dichloroethene	A	40.0	41.4	0.3180469	0.3290625		3.5	25
trans-1,2-Dichloroethene	A	40.0	42.5	0.3289812	0.3492314		6.2	25
1,2-Dichloropropane	A	40.0	41.9	0.2383102	0.2498579		4.8	20
cis-1,3-Dichloropropene	L	40.0	37.7	0.410401	0.4373069		-5.7	25
trans-1,3-Dichloropropene	L	40.0	37.0	0.427667	0.4509192		-7.4	25
Ethylbenzene	A	40.0	45.7	1.70733	1.952374		14.4	20
2-Hexanone	L	40.0	36.6	0.1332871	0.1365575		-8.5	40

CONTINUING CALIBRATION CHECK

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Lab Sample ID: 2E11012-CCV1
Lab File ID: CCV0510.D
Injection Date: 05/10/12
Injection Time: 08:37
Calibration Date: 04/24/12 00:00
Calibration: 2D27003
Sequence: 2E11012
Instrument ID: 328

Analyte	Type	CONC. (ug/L)		Response Factor			% Diff. / Drift	
		STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Isopropylbenzene	A	40.0	46.8	2.329142	2.723674		16.9	25
Methyl Acetate	A	40.0	40.4	0.1868658	0.1886574		1.0	25
Methyl tert-Butyl Ether	A	40.0	41.2	0.8203073	0.8448838		3.0	25
Methylcyclohexane	A	40.0	45.6	0.3998766	0.4558466		14.0	25
Methylene Chloride	L	40.0	44.7	0.3896002	0.4048367		11.7	25
2-Butanone (MEK)	A	40.0	37.1	9.045927E-02	8.394434E-02		-7.2	40
4-Methyl-2-pentanone (MIBK)	L	40.0	36.5	0.171589	0.1736438		-8.8	40
Styrene	A	40.0	46.7	1.052905	1.228087		16.6	25
1,1,2,2-Tetrachloroethane	A	40.0	44.2	0.4812311	0.5313742	0.3	10.4	25
Tetrachloroethene	A	40.0	43.6	0.4973246	0.5416955		8.9	25
Toluene	A	40.0	41.0	1.25447	1.285847		2.5	20
1,2,4-Trichlorobenzene	A	40.0	42.2	0.6800597	0.7181973		5.6	25
1,1,1-Trichloroethane	A	40.0	39.9	0.6373281	0.6359288		-0.2	25
1,1,2-Trichloroethane	A	40.0	40.8	0.1859654	0.1898571		2.1	25
Trichloroethene	A	40.0	39.6	0.3625081	0.3593663		-0.9	25
Trichlorofluoromethane	A	40.0	42.9	0.7399001	0.792968		7.2	25
1,1,2-Trichloro-1,2,2-trifluoroethane	A	40.0	44.0	0.323126	0.3551308		9.9	25
Vinyl Chloride	A	40.0	45.7	0.318557	0.363713		14.2	20
Xylene (Total)	A	120	140	0.6352085	0.7399919		16.5	25

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : CCV0510.D
Acq On : 10 May 2012 8:37
Operator : DLV
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 09:29:07 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Fluorobenzene	1.000	1.000	0.0	78	-0.02
2		dichlorodifluoromethane	0.423	0.473	-11.8	87	0.00
3	P	chloromethane	0.273	0.302	-10.6	84	0.00
4	C	vinyl chloride	0.319	0.364	-14.1	87	0.00
5		bromomethane	0.250	0.246	1.6	84	0.00
6		chloroethane	0.209	0.236	-12.9	86	0.00
7		dichlorofluoromethane	0.627	0.679	-8.3	83	0.00
8		trichlorofluoromethane	0.740	0.793	-7.2	82	0.00
9		ethyl ether	0.144	0.150	-4.2	79	0.00
10		acrolein	0.032	0.033	-3.1	74	-0.01
11		1,1,2-trichloro-1,2,2-trifl	0.323	0.355	-9.9	84	0.00
12	C	1,1-dichloroethene	0.300	0.325	-8.3	82	-0.01
13		acetone	0.094	0.081	13.8	76	-0.01
14		iodomethane	0.380	0.421	-10.8	78	0.00
15		carbon disulfide	0.801	0.862	-7.6	88	0.00
16		methyl acetate	0.187	0.189	-1.1	79	-0.01
17		methylene chloride	0.390	0.405	-3.8	86	0.00
18		acrylonitrile	0.085	0.089	-4.7	76	-0.02
19		trans-1,2-dichloroethene	0.329	0.349	-6.1	81	-0.02
20		methyl (tert) butyl ether	0.820	0.845	-3.0	76	-0.02
21	P	1,1-dichloroethane	0.549	0.560	-2.0	77	-0.02
22		vinyl acetate	0.448	0.457	-2.0	80	-0.01
23		2,2-dichloropropane	0.505	0.522	-3.4	76	-0.02
24		cis-1,2-dichloroethene	0.318	0.329	-3.5	77	-0.02
25		2-butanone (MEK)	0.090	0.084	6.7	72	-0.02
26		bromochloromethane	0.210	0.215	-2.4	79	-0.02
27		tetrahydrofuran	0.021	0.020	4.8	64	-0.02
28	C	chloroform	0.636	0.638	-0.3	77	-0.02
29	S	#Dibromofluoromethane	0.324	0.313	3.4	75	-0.02
30		1,1,1-trichloroethane	0.637	0.636	0.2	75	-0.02
31		cyclohexane	0.392	0.442	-12.8	80	-0.02
32		carbon tetrachloride	0.594	0.611	-2.9	76	-0.02
33		1,1-dichloropropene	0.450	0.472	-4.9	77	-0.02
34		benzene	1.082	1.128	-4.3	79	-0.02
35		1,2-dichloroethane	0.545	0.552	-1.3	77	-0.03
36		heptane	0.000	0.035	0.0	0#	-0.02
37	s	#1,2-Dichloroethane-d4	0.197	0.198	-0.5	77	-0.02
38		trichloroethene	0.363	0.359	1.1	74	-0.02
39		methylcyclohexane	0.400	0.456	-14.0	81	-0.02
40	C	1,2-dichloropropane	0.238	0.250	-5.0	79	-0.02
41		dibromomethane	0.186	0.187	-0.5	77	-0.02
42		1,4-dioxane	0.000	0.000	0.0	0#	-7.14#
43		bromodichloromethane	0.462	0.469	-1.5	76	-0.02
44		2-chloroethyl vinyl ether	0.071	0.073	-2.8	75	-0.01
45		cis-1,3-dichloropropene	0.410	0.437	-6.6	76	-0.01
46		4-methyl-2-pentanone (MIBK)	0.172	0.174	-1.2	73	-0.02
47	s	#Toluene-d8	1.049	1.053	-0.4	77	-0.02

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : CCV0510.D
Acq On : 10 May 2012 8:37
Operator : DLV
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 09:29:07 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	C	toluene	1.254	1.286	-2.6	78	-0.02
49		trans-1,3-dichloropropene	0.428	0.451	-5.4	75	-0.02
50		1,1,2-trichloroethane	0.186	0.190	-2.2	77	-0.01
51		Chlorobenzene-d5	1.000	1.000	0.0	72	-0.01
52		tetrachloroethene	0.497	0.542	-9.1	76	-0.01
53		1,3-dichloropropane	0.467	0.521	-11.6	77	-0.01
54		2-hexanone (MBK)	0.133	0.137	-3.0	68	-0.01
55		dibromochloromethane	0.376	0.413	-9.8	74	-0.02
56		1,2-dibromoethane	0.275	0.297	-8.0	74	-0.02
57	P	chlorobenzene	1.007	1.089	-8.1	77	-0.02
58		1-chlorohexane	0.327	0.390	-19.3	82	-0.02
59		1,1,1,2-tetrachloroethane	0.397	0.433	-9.1	75	-0.02
60	C	ethylbenzene	1.707	1.952	-14.4	78	-0.02
61		m+p-xylene	0.652	0.759	-16.4	79	-0.02
62		o-xylene	0.602	0.702	-16.6	77	-0.02
63		styrene	1.053	1.228	-16.6	78	-0.02
64	P	bromoform	0.248	0.269	-8.5	71	-0.01
65	S	#4-Bromofluorobenzene	0.559	0.551	1.4	71	-0.01
66	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	72	-0.01
67		isopropylbenzene	2.329	2.724	-17.0	77	-0.01
68		bromobenzene	0.969	1.050	-8.4	77	-0.02
69	P	1,1,2,2-tetrachloroethane	0.481	0.531	-10.4	75	-0.01
70		1,2,3-trichloropropane	0.198	0.211	-6.6	71	-0.01
71		1,4-dichloro-2-butene	0.169	0.207	-22.5	77	-0.01
72		n-propylbenzene	0.685	0.799	-16.6	78	-0.01
73		2-chlorotoluene	0.629	0.713	-13.4	78	-0.02
74		1,3,5-trimethylbenzene	2.155	2.498	-15.9	78	-0.01
75		4-chlorotoluene	2.161	2.446	-13.2	78	-0.01
76		tert-butylbenzene	1.802	2.100	-16.5	77	-0.01
77		1,2,4-trimethylbenzene	2.149	2.507	-16.7	77	-0.02
78		sec-butylbenzene	2.384	2.796	-17.3	78	-0.01
79		1,3-dichlorobenzene	1.337	1.461	-9.3	77	-0.02
80		4-isopropyltoluene	2.250	2.580	-14.7	79	-0.02
81		1,4-dichlorobenzene	1.388	1.488	-7.2	78	-0.01
82		1,2-dichlorobenzene	1.205	1.329	-10.3	76	-0.01
83		n-butylbenzene	1.652	1.964	-18.9	78	-0.01
84		hexachloroethane	0.306	0.347	-13.4	75	-0.01
85		1,2-dibromo-3-chloropropane	0.105	0.109	-3.8	65	-0.01
86		1,2,4-trichlorobenzene	0.680	0.718	-5.6	72	-0.01
87		hexachlorobutadiene	0.376	0.392	-4.3	77	0.00
88		naphthalene	1.358	1.408	-3.7	67	-0.01
89		1,2,3-trichlorobenzene	0.595	0.615	-3.4	69	-0.01
90		2-methylnaphthalene	0.387	0.361	6.7	51	0.00

00497

Evaluate Continuing Calibration Report

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : CCV0510.D
Acq On : 10 May 2012 8:37
Operator : DLV
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 09:29:07 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

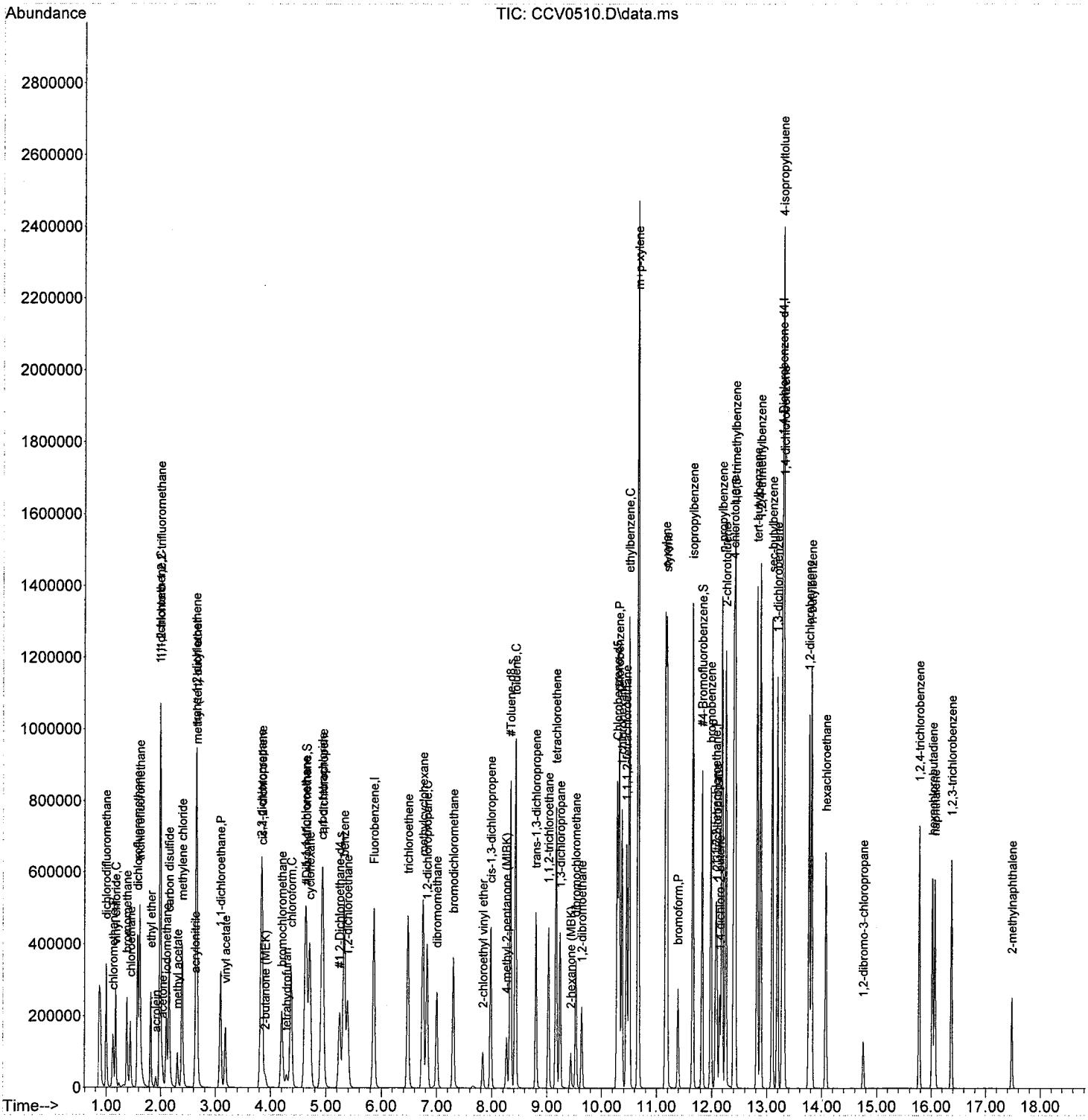
Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

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

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : CCV0510.D
Acq On : 10 May 2012 8:37
Operator : DLV
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 09:29:07 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



00499

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : CCV0510.D
Acq On : 10 May 2012 8:37
Operator : DLV
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 09:29:07 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.860	96	575143	40.00	ug/L	-0.02
51) Chlorobenzene-d5	10.286	117	478121	40.00	ug/L	-0.01
66) 1,4-Dichlorobenzene-d4	13.285	152	325586	40.00	ug/L	#-0.01
System Monitoring Compounds						
29) #Dibromofluoromethane	4.647	111	180163	38.64	ug/L	-0.02
Spiked Amount 40.000			Recovery = 96.60%			
37) #1,2-Dichloroethane-d4	5.244	67	113779	40.17	ug/L	-0.02
Spiked Amount 40.000			Recovery = 100.43%			
47) #Toluene-d8	8.335	98	605804	40.17	ug/L	-0.02
Spiked Amount 40.000			Recovery = 100.43%			
65) #4-Bromofluorobenzene	11.828	95	263374	39.41	ug/L	-0.01
Spiked Amount 40.000			Recovery = 98.52%			
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.995	85	271992	44.70	ug/L	100
3) chloromethane	1.123	50	173596	44.19	ug/L	99
4) vinyl chloride	1.172	62	209187	45.67	ug/L	100
5) bromomethane	1.379	94	141765	39.48	ug/L	99
6) chloroethane	1.446	64	135465	45.01	ug/L	99
7) dichlorofluoromethane	1.574	67	390414	43.31	ug/L	99
8) trichlorofluoromethane	1.617	101	456070	42.87	ug/L	100
9) ethyl ether	1.818	74	86366	41.77	ug/L	98
10) acrolein	1.910	56	18889	40.80	ug/L #	99
11) 1,1,2-trichloro-1,2,2-...	1.989	101	204251	43.96	ug/L	99
12) 1,1-dichloroethene	1.983	96	187185	43.36	ug/L	99
13) acetone	2.032	43	46738	34.67	ug/L	99
14) iodomethane	2.105	142	241966	35.01	ug/L	99
15) carbon disulfide	2.154	76	496010	43.07	ug/L	100
16) methyl acetate	2.306	43	108505	40.38	ug/L	98
17) methylene chloride	2.391	49	232839	44.68	ug/L	98
18) acrylonitrile	2.623	53	51212	42.10	ug/L	97
19) trans-1,2-dichloroethene	2.641	96	200858	42.46	ug/L	98
20) methyl (tert) butyl ether	2.653	73	485929	41.20	ug/L	99
21) 1,1-dichloroethane	3.092	63	322030	40.82	ug/L	99
22) vinyl acetate	3.184	43	262731	40.81	ug/L	99
23) 2,2-dichloropropane	3.830	77	300338	41.38	ug/L	100
24) cis-1,2-dichloroethene	3.848	96	189258	41.39	ug/L	99
25) 2-butanone (MEK)	3.903	43	48280	37.12	ug/L	98
26) bromochloromethane	4.202	49	123911	41.02	ug/L	96
27) tetrahydrofuran	4.287	71	11322	33.90	ug/L	85
28) chloroform	4.373	83	367025	40.12	ug/L	99
30) 1,1,1-trichloroethane	4.629	97	365750	39.91	ug/L	98
31) cyclohexane	4.708	56	253979	45.02	ug/L	98
32) carbon tetrachloride	4.927	117	351633	41.18	ug/L	100
33) 1,1-dichloropropene	4.946	75	271714	42.03	ug/L	100
34) benzene	5.324	78	648531	41.70	ug/L	100
35) 1,2-dichloroethane	5.385	62	317588	40.53	ug/L	100
36) heptane	5.860	57	20234	No Calib	#	
38) trichloroethene	6.482	130	206687	39.65	ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : CCV0510.D
Acq On : 10 May 2012 8:37
Operator : DLV
Sample : CCV
Misc :
ALS Vial : 2 Sample Multiplier: 1

Quant Time: May 10 09:29:07 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

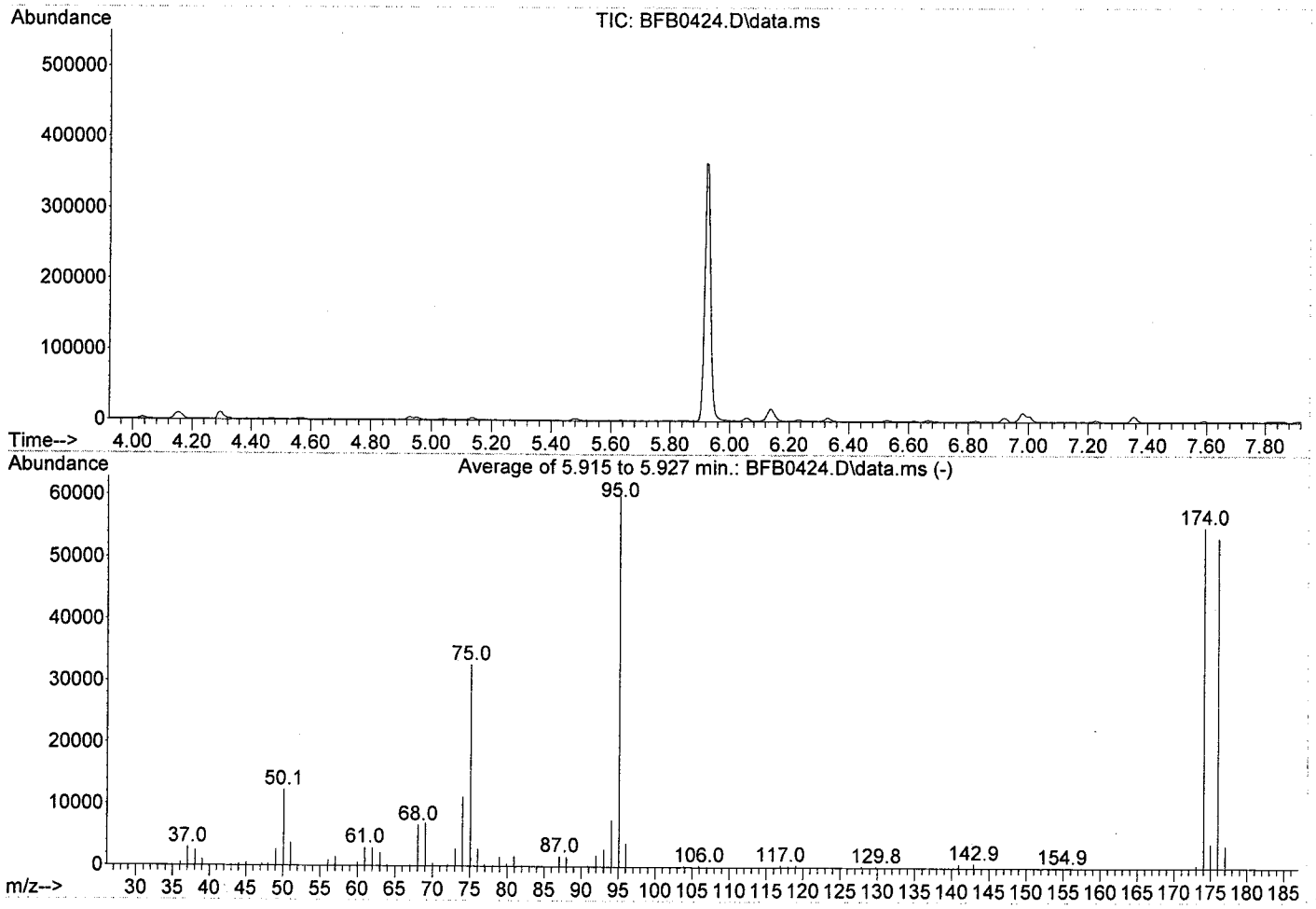
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.750	83	262177	45.60 ug/L	99
40) 1,2-dichloropropane	6.823	63	143704	41.94 ug/L	99
41) dibromomethane	7.000	93	107313	40.03 ug/L	99
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	7.299	83	269713	40.61 ug/L	99
44) 2-chloroethyl vinyl ether	7.835	63	41794	36.02 ug/L	100
45) cis-1,3-dichloropropene	7.982	75	251514	37.73 ug/L	98
46) 4-methyl-2-pentanone (...	8.262	43	99870	36.49 ug/L	95
48) toluene	8.427	91	739546	41.00 ug/L	99
49) trans-1,3-dichloropropene	8.799	75	259343	37.05 ug/L	98
50) 1,1,2-trichloroethane	9.030	83	109195	40.84 ug/L	99
52) tetrachloroethene	9.170	166	258996	43.57 ug/L	99
53) 1,3-dichloropropane	9.244	76	249302	44.71 ug/L	100
54) 2-hexanone (MBK)	9.439	43	65291	36.59 ug/L	97
55) dibromochloromethane	9.530	129	197253	43.93 ug/L	99
56) 1,2-dibromoethane	9.640	109	141954	43.18 ug/L #	100
57) chlorobenzene	10.317	112	520864	43.26 ug/L	99
58) 1-chlorohexane	10.365	55	186267	47.59 ug/L	95
59) 1,1,1,2-tetrachloroethane	10.451	131	207251	43.71 ug/L	99
60) ethylbenzene	10.499	91	933471	45.74 ug/L	100
61) m+p-xylene	10.664	106	725774	93.18 ug/L	97
62) o-xylene	11.164	106	335643	46.61 ug/L	99
63) styrene	11.188	104	587174	46.66 ug/L	99
64) bromoform	11.390	173	128508	37.69 ug/L	100
67) isopropylbenzene	11.658	105	886790	46.78 ug/L	99
68) bromobenzene	11.981	77	341813	43.31 ug/L	100
69) 1,1,2,2-tetrachloroethane	12.072	83	173008	44.17 ug/L #	99
70) 1,2,3-trichloropropane	12.091	110	68755	42.56 ug/L	96
71) 1,4-dichloro-2-butene	12.145	53	67248	42.20 ug/L	92
72) n-propylbenzene	12.188	120	260091	46.66 ug/L	99
73) 2-chlorotoluene	12.255	126	232014	45.32 ug/L	97
74) 1,3,5-trimethylbenzene	12.426	105	813470	46.37 ug/L	99
75) 4-chlorotoluene	12.402	91	796314	45.27 ug/L	100
76) tert-butylbenzene	12.822	119	683891	46.64 ug/L	100
77) 1,2,4-trimethylbenzene	12.883	105	816116	46.65 ug/L	99
78) sec-butylbenzene	13.103	105	910227	46.92 ug/L	100
79) 1,3-dichlorobenzene	13.194	146	475837	43.71 ug/L	100
80) 4-isopropyltoluene	13.298	119	840152	45.88 ug/L	99
81) 1,4-dichlorobenzene	13.316	146	484559	42.89 ug/L	100
82) 1,2-dichlorobenzene	13.767	146	432828	44.12 ug/L	100
83) n-butylbenzene	13.810	91	639487	42.88 ug/L	100
84) hexachloroethane	14.078	201	112945	39.20 ug/L #	91
85) 1,2-dibromo-3-chloropr...	14.749	157	35492	35.83 ug/L	98
86) 1,2,4-trichlorobenzene	15.779	180	233835	42.24 ug/L	100
87) hexachlorobutadiene	16.023	225	127647	41.67 ug/L	99
88) naphthalene	16.065	128	458459	37.25 ug/L	99
89) 1,2,3-trichlorobenzene	16.370	180	200327	41.33 ug/L	100
90) 2-methylnaphthalene	17.480	142	117443	29.93 ug/L	100

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

Data Path : C:\msdchem\1\DATA\04-24-12\
Data File : BFB0424.D
Acq On : 24 Apr 2012 7:37
Operator : DLV
Sample : BFB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\8260B-WB60.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Thu Apr 26 10:51:41 2012



AutoFind: Scans 874, 875, 876; Background Corrected with Scan 868

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	20.7	12409	PASS
75	95	30	60	54.7	32747	PASS
95	95	100	100	100.0	59880	PASS
96	95	5	9	6.4	3840	PASS
173	174	0.00	2	0.8	464	PASS
174	95	50	100	91.9	55045	PASS
175	174	5	9	7.2	3945	PASS
176	174	95	101	97.0	53389	PASS
177	176	5	9	6.8	3642	PASS

00502

Average of 5.915 to 5.927 min.: BFB0424.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
36.10	576	50.10	12409	67.05	146	78.95	1572
37.05	3013	51.05	3763	68.05	6699	79.95	421
38.05	2526	52.05	213	69.05	7044	80.95	1714
39.05	1060	54.90	71	70.05	475	81.80	91
40.00	51	56.05	956	72.05	329	82.00	207
44.05	333	57.00	1566	73.05	2839	87.05	1725
45.05	510	60.00	589	74.00	11266	88.00	1587
47.00	97	61.00	3046	75.05	32747	90.90	259
47.20	354	62.00	2985	76.05	2862	92.00	1905
48.05	359	63.05	2142	76.95	314	93.05	2813
49.05	2690	64.00	192	78.05	187	94.05	7556

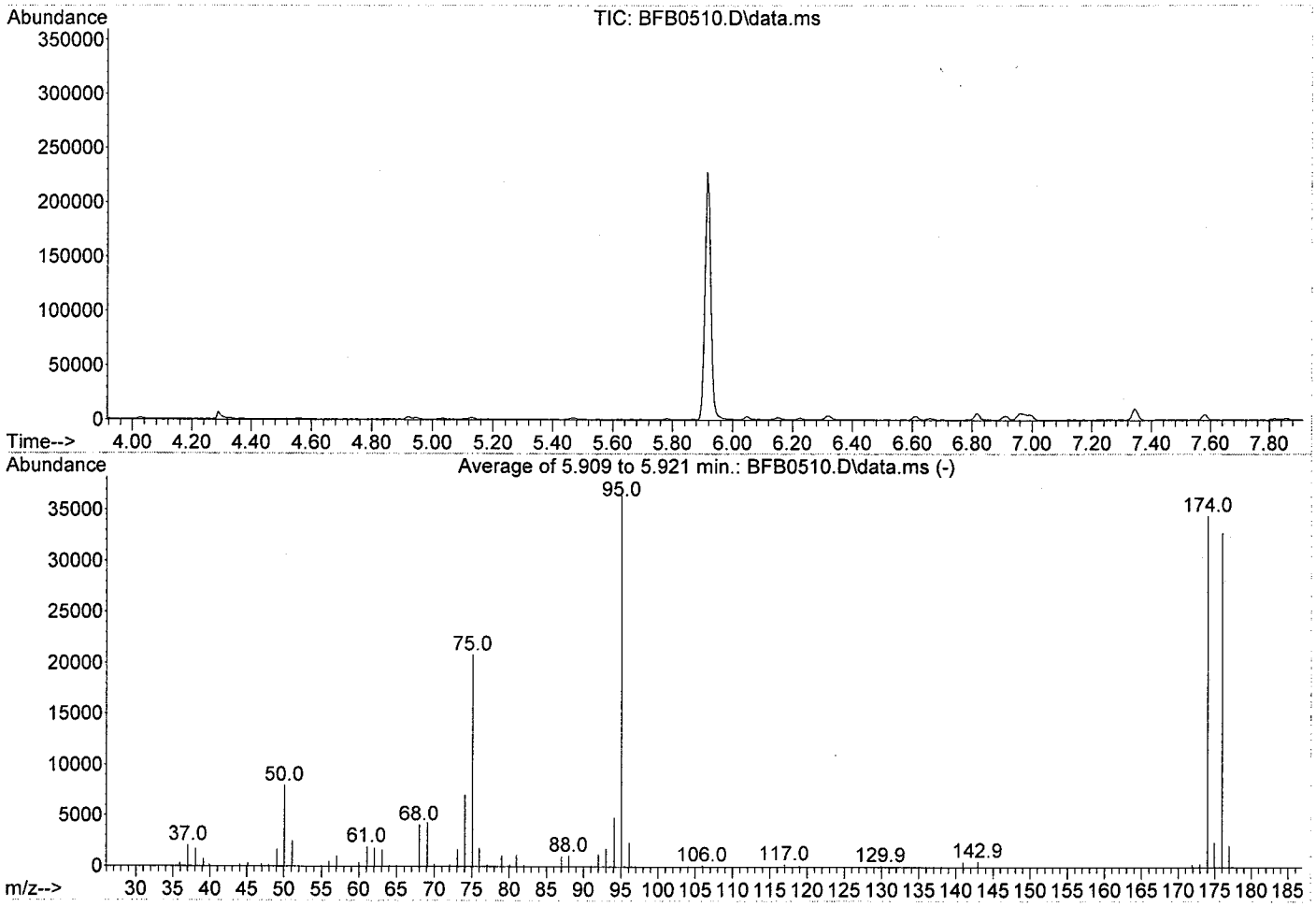
Average of 5.915 to 5.927 min.: BFB0424.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
95.05	59880	128.90	54	171.90	62		
96.05	3840	129.85	228	173.00	464		
103.85	231	134.90	58	174.00	55045		
104.10	82	137.05	118	175.00	3945		
105.95	273	140.80	128	176.00	53389		
115.80	83	140.95	622	177.00	3642		
116.00	62	142.95	776				
116.95	384	144.90	51				
117.95	265	147.95	147				
119.05	332	154.90	134				
127.90	222	156.90	51				

Data Path : C:\msdchem\1\DATA\05-10-12\
Data File : BFB0510.D
Acq On : 10 May 2012 8:09
Operator : DLV
Sample : BFB
Misc :
ALS Vial : 1 Sample Multiplier: 1

Integration File: RTEINT.P

Method : C:\msdchem\1\METHODS\8260B-WB60.M
Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
Last Update : Fri May 04 12:28:39 2012



AutoFind: Scans 873, 874, 875; Background Corrected with Scan 867

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	15	40	22.0	8002	PASS
75	95	30	60	57.2	20848	PASS
95	95	100	100	100.0	36424	PASS
96	95	5	9	6.6	2390	PASS
173	174	0.00	2	0.9	318	PASS
174	95	50	100	94.7	34483	PASS
175	174	5	9	7.2	2470	PASS
176	174	95	101	95.3	32853	PASS
177	176	5	9	6.5	2125	PASS

5-10-12

00504

Average of 5.909 to 5.921 min.: BFB0510.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
35.95	358	50.05	8002	65.00	115	78.10	64
37.05	2099	51.10	2533	68.00	4115	78.95	1087
38.05	1764	52.00	57	69.05	4318	79.80	70
39.15	717	55.00	70	70.00	228	80.05	218
39.90	179	56.00	513	70.20	87	80.95	1152
44.00	252	57.05	1035	72.05	186	81.80	68
45.15	391	60.00	444	73.05	1710	82.00	178
46.95	248	61.05	1962	74.05	7059	87.00	1003
47.95	139	62.05	1846	75.05	20848	88.00	1095
48.20	93	63.05	1652	76.00	1821	91.05	110
49.05	1693	64.05	131	77.05	168	92.00	1216

Average of 5.909 to 5.921 min.: BFB0510.D\data.ms
BFB
Modified:subtracted

m/z	abund.	m/z	abund.	m/z	abund.	m/z	abund.
93.00	1791	129.90	132				
94.05	4878	140.95	544				
95.05	36424	142.95	577				
96.10	2390	171.95	269				
104.00	55	172.95	318				
105.95	176	174.00	34483				
116.95	284	174.95	2470				
117.90	66	176.00	32853				
118.95	151	176.95	2125				
127.70	61						
127.90	88						

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

106037

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

SDG: KNM050112

Project: KNM

Laboratory ID: 1205988-MS1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

QC Batch: 1205988

Analyte	Spike Added	Sample Conc.	MS Conc.	MS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	ND	43.1	108	80 - 129	ug/L
Chlorobenzene	40.0	ND	44.9	112	80 - 121	ug/L
1,1-Dichloroethene	40.0	ND	45.9	115	74 - 134	ug/L
Toluene	40.0	ND	42.5	106	79 - 129	ug/L
Trichloroethene	40.0	ND	41.6	104	75 - 127	ug/L

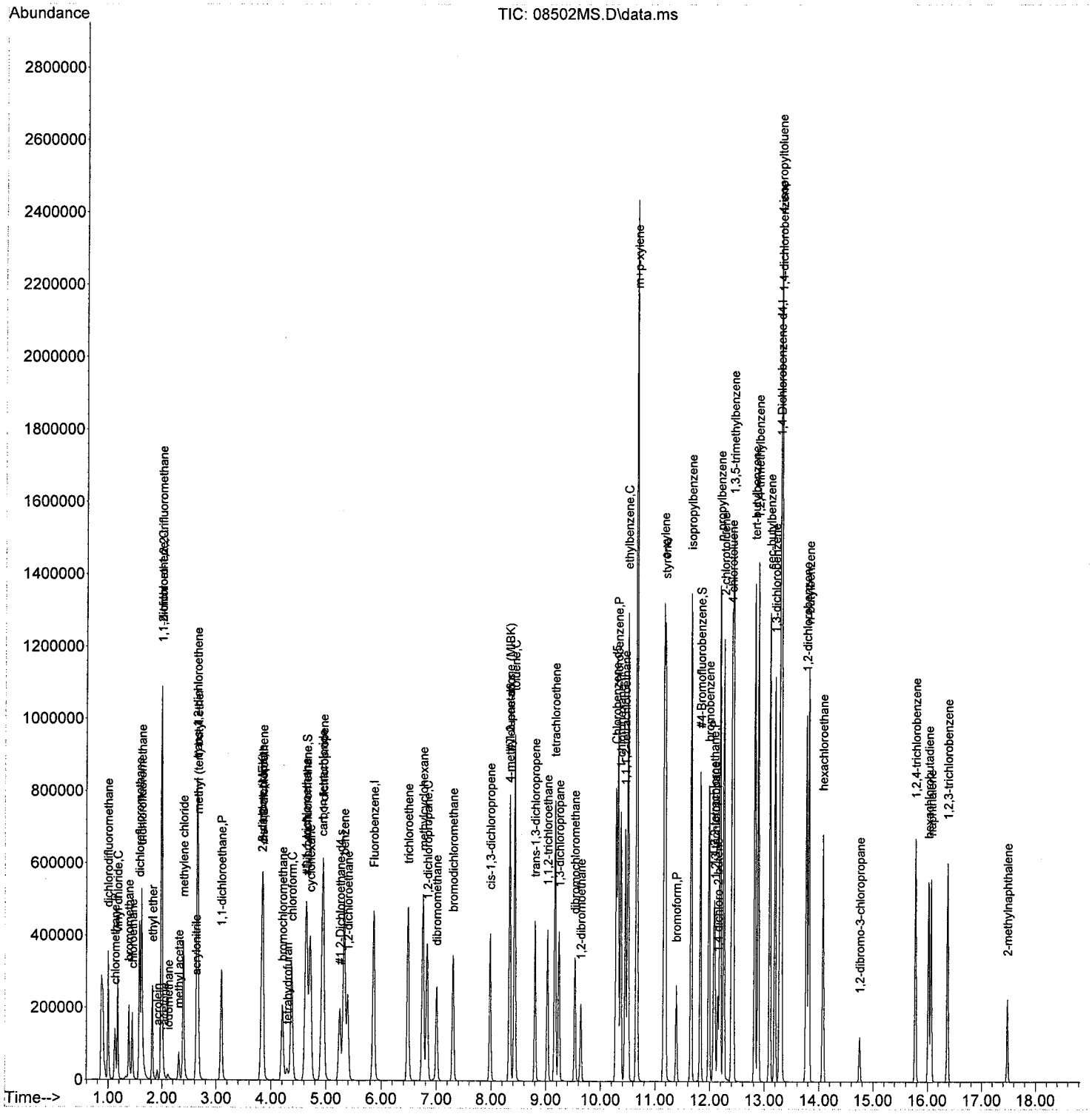
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 08502MS.D
Acq On : 10 May 2012 19:14
Operator : DLV
Sample : MS1
Misc : TL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 11 07:57:00 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



00507

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 08502MS.D
Acq On : 10 May 2012 19:14
Operator : DLV
Sample : MS1
Misc : TL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 11 07:57:00 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.860	96	538470	40.00	ug/L		-0.02
51) Chlorobenzene-d5	10.280	117	447241	40.00	ug/L		-0.02
66) 1,4-Dichlorobenzene-d4	13.286	152	315272	40.00	ug/L		#-0.01
System Monitoring Compounds							
29) #Dibromofluoromethane	4.647	111	171174	39.21	ug/L		-0.02
Spiked Amount 40.000			Recovery = 98.03%				
37) #1,2-Dichloroethane-d4	5.251	67	109393	41.25	ug/L		-0.02
Spiked Amount 40.000			Recovery = 103.13%				
47) #Toluene-d8	8.335	98	551044	39.03	ug/L		-0.02
Spiked Amount 40.000			Recovery = 97.58%				
65) #4-Bromofluorobenzene	11.829	95	253014	40.47	ug/L		-0.01
Spiked Amount 40.000			Recovery = 101.18%				
Target Compounds							Qvalue
2) dichlorodifluoromethane	0.995	85	260204	45.67	ug/L		100
3) chloromethane	1.123	50	162564	44.20	ug/L		99
4) vinyl chloride	1.172	62	199989	46.64	ug/L		100
5) bromomethane	1.379	94	110023	32.73	ug/L		99
6) chloroethane	1.447	64	133409	47.35	ug/L		99
7) dichlorofluoromethane	1.575	67	385048	45.62	ug/L		100
8) trichlorofluoromethane	1.617	101	463962	46.58	ug/L		100
9) ethyl ether	1.818	74	81049	41.87	ug/L		99
10) acrolein	1.910	56	16537	38.15	ug/L	#	98
11) 1,1,2-trichloro-1,2,2-...	1.989	101	202072	46.46	ug/L		100
12) 1,1-dichloroethene	1.989	96	185656	45.94	ug/L		99
13) acetone	2.038	43	5962	4.72	ug/L	#	53
14) iodomethane	2.111	142	17602	2.72	ug/L		98
15) carbon disulfide	0.000		0	N.D.			
16) methyl acetate	2.306	43	83549	33.21	ug/L		100
17) methylene chloride	2.391	49	217298	44.54	ug/L		99
18) acrylonitrile	2.623	53	45204	39.69	ug/L		97
19) trans-1,2-dichloroethene	2.641	96	185229	41.83	ug/L		99
20) methyl (tert) butyl ether	2.660	73	423217	38.33	ug/L		100
21) 1,1-dichloroethane	3.093	63	307576	41.65	ug/L		100
22) vinyl acetate	0.000		0	N.D.			
23) 2,2-dichloropropane	3.830	77	258995	38.11	ug/L		98
24) cis-1,2-dichloroethene	3.849	96	180411	42.14	ug/L		100
25) 2-butanone (MEK)	3.830	43	3107	2.55	ug/L	#	1
26) bromochloromethane	4.202	49	118815	42.01	ug/L		98
27) tetrahydrofuran	4.294	71	10786	34.46	ug/L		96
28) chloroform	4.373	83	358353	41.84	ug/L		99
30) 1,1,1-trichloroethane	4.629	97	360060	41.97	ug/L		97
31) cyclohexane	4.708	56	247169	46.79	ug/L		99
32) carbon tetrachloride	4.928	117	354171	44.30	ug/L		100
33) 1,1-dichloropropene	4.946	75	266255	43.99	ug/L		99
34) benzene	5.324	78	627428	43.09	ug/L		100
35) 1,2-dichloroethane	5.391	62	306990	41.85	ug/L		99
36) heptane	5.860	57	19275	No Calib			
38) trichloroethene	6.482	130	203250	41.65	ug/L		99

00508

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 08502MS.D
Acq On : 10 May 2012 19:14
Operator : DLV
Sample : MS1
Misc : TL
ALS Vial : 25 Sample Multiplier: 1

Quant Time: May 11 07:57:00 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.750	83	251897	46.79 ug/L	99
40) 1,2-dichloropropane	6.830	63	137296	42.80 ug/L	100
41) dibromomethane	7.000	93	102779	40.95 ug/L	99
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	7.299	83	260339	41.87 ug/L	100
44) 2-chloroethyl vinyl ether	0.000		0	N.D.	
45) cis-1,3-dichloropropene	7.982	75	222591	35.70 ug/L	98
46) 4-methyl-2-pentanone (...	8.329	43	2624	3.81 ug/L #	1
48) toluene	8.427	91	718385	42.54 ug/L	100
49) trans-1,3-dichloropropene	8.799	75	239046	36.51 ug/L	98
50) 1,1,2-trichloroethane	9.030	83	103009	41.15 ug/L	99
52) tetrachloroethene	9.171	166	253518	45.59 ug/L	99
53) 1,3-dichloropropane	9.244	76	235656	45.18 ug/L	100
54) 2-hexanone (MBK)	0.000		0	N.D.	
55) dibromochloromethane	9.530	129	183394	43.66 ug/L	100
56) 1,2-dibromoethane	9.640	109	134234	43.65 ug/L #	100
57) chlorobenzene	10.317	112	505821	44.91 ug/L	99
58) 1-chlorohexane	10.366	55	181716	49.63 ug/L	94
59) 1,1,1,2-tetrachloroethane	10.451	131	200961	45.31 ug/L	100
60) ethylbenzene	10.500	91	914531	47.91 ug/L	99
61) m+p-xylene	10.664	106	705236	96.80 ug/L	98
62) o-xylene	11.164	106	328345	48.75 ug/L	99
63) styrene	11.189	104	570556	48.46 ug/L	100
64) bromoform	11.390	173	122566	38.38 ug/L	100
67) isopropylbenzene	11.658	105	871284	47.46 ug/L	99
68) bromobenzene	11.981	77	332475	43.51 ug/L	100
69) 1,1,2,2-tetrachloroethane	12.073	83	166386	43.87 ug/L #	99
70) 1,2,3-trichloropropane	12.091	110	66684	42.63 ug/L	96
71) 1,4-dichloro-2-butene	12.146	53	61619	40.01 ug/L	93
72) n-propylbenzene	12.182	120	258729	47.93 ug/L	97
73) 2-chlorotoluene	12.255	126	227733	45.94 ug/L	96
74) 1,3,5-trimethylbenzene	12.426	105	799807	47.09 ug/L	99
75) 4-chlorotoluene	12.396	91	778979	45.74 ug/L	99
76) tert-butylbenzene	12.822	119	677332	47.70 ug/L	100
77) 1,2,4-trimethylbenzene	12.883	105	801228	47.30 ug/L	99
78) sec-butylbenzene	13.103	105	896995	47.75 ug/L	100
79) 1,3-dichlorobenzene	13.194	146	467788	44.38 ug/L	100
80) 4-isopropyltoluene	13.298	119	822561	46.39 ug/L	99
81) 1,4-dichlorobenzene	13.310	146	473805	43.31 ug/L	100
82) 1,2-dichlorobenzene	13.767	146	421993	44.42 ug/L	100
83) n-butylbenzene	13.810	91	610386	42.27 ug/L	99
84) hexachloroethane	14.072	201	112125	40.13 ug/L #	92
85) 1,2-dibromo-3-chloropr...	14.749	157	34300	35.76 ug/L	97
86) 1,2,4-trichlorobenzene	15.779	180	222218	41.46 ug/L	100
87) hexachlorobutadiene	16.017	225	120896	40.76 ug/L	99
88) naphthalene	16.066	128	440572	36.99 ug/L	99
89) 1,2,3-trichlorobenzene	16.370	180	193010	41.12 ug/L	99
90) 2-methylnaphthalene	17.480	142	103864	27.54 ug/L	99

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

00509

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

106037

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

SDG: KNM050112

Client: TechLaw

Project: KNM

Matrix: Water

Laboratory ID: 1205988-MSD1

Preparation: 5030B Aqueous Purge & Trap

QC Batch: 1205988

Initial/Final: 5 mL / 5 mL

Analyte	Spike Added	MSD Conc.	MSD % Rec. #	% RPD #	QC Limits RPD	QC Limits Rec.	Units
Benzene	40.0	43.0	108	0.1	9	80 - 129	ug/L
Chlorobenzene	40.0	45.0	113	0.3	8	80 - 121	ug/L
1,1-Dichloroethene	40.0	46.4	116	1	11	74 - 134	ug/L
Toluene	40.0	41.9	105	2	9	79 - 129	ug/L
Trichloroethene	40.0	41.6	104	0.2	10	75 - 127	ug/L

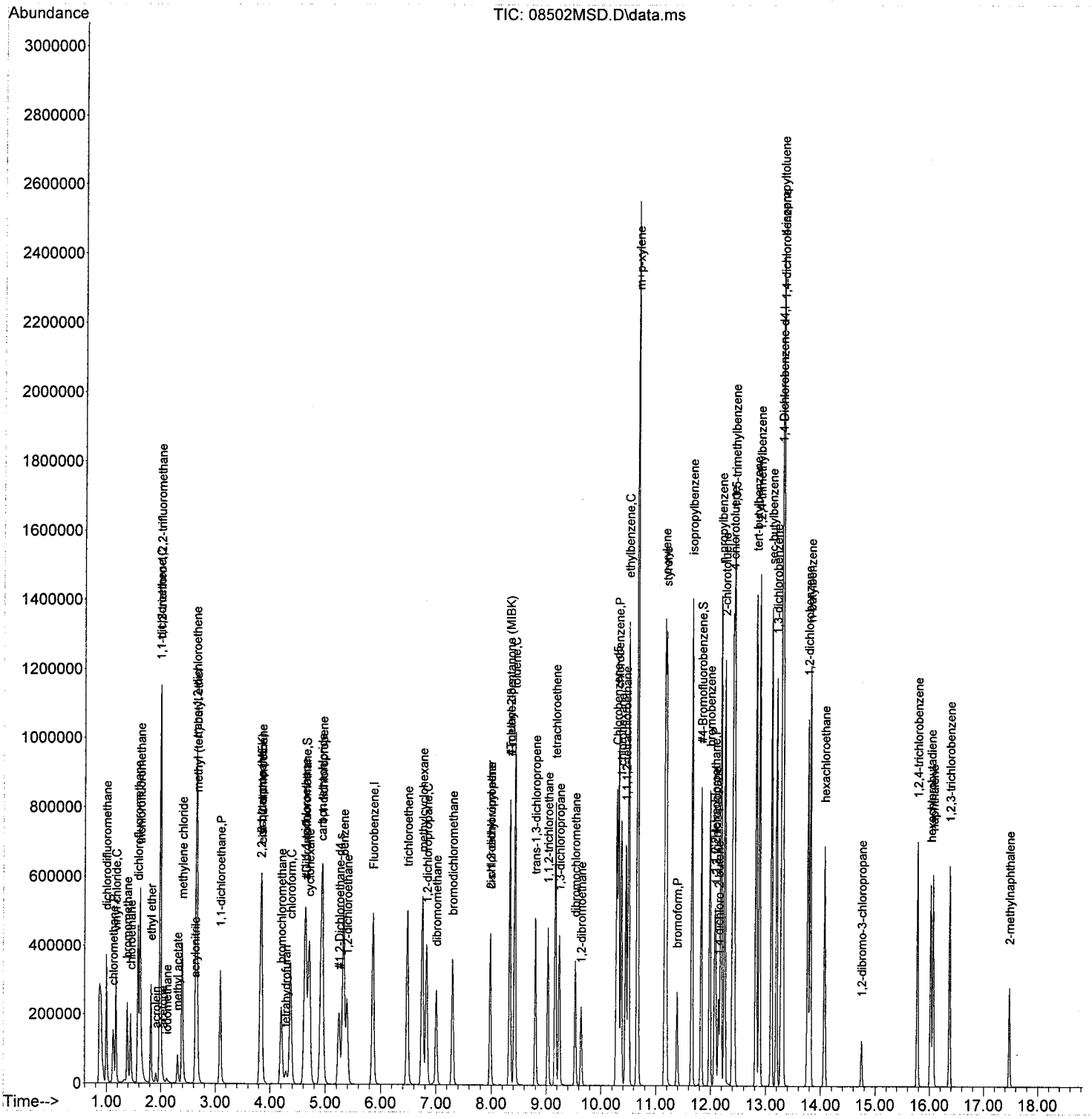
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 08502MSD.D
Acq On : 10 May 2012 19:42
Operator : DLV
Sample : MSD1
Misc : TL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 11 07:57:04 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



00511

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 08502MSD.D
Acq On : 10 May 2012 19:42
Operator : DLV
Sample : MSD1
Misc : TL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 11 07:57:04 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	5.860	96	576239	40.00	ug/L		-0.02
51) Chlorobenzene-d5	10.286	117	469512	40.00	ug/L		-0.01
66) 1,4-Dichlorobenzene-d4	13.286	152	323032	40.00	ug/L	#	-0.01
System Monitoring Compounds							
29) #Dibromofluoromethane	4.647	111	179072	38.33	ug/L		-0.02
Spiked Amount 40.000			Recovery =	95.82%			
37) #1,2-Dichloroethane-d4	5.251	67	112597	39.67	ug/L		-0.02
Spiked Amount 40.000			Recovery =	99.17%			
47) #Toluene-d8	8.335	98	580623	38.43	ug/L		-0.02
Spiked Amount 40.000			Recovery =	96.08%			
65) #4-Bromofluorobenzene	11.829	95	260049	39.63	ug/L		-0.01
Spiked Amount 40.000			Recovery =	99.08%			
Target Compounds							Qvalue
2) dichlorodifluoromethane	0.995	85	276091	45.28	ug/L		100
3) chloromethane	1.123	50	183770	46.69	ug/L		100
4) vinyl chloride	1.172	62	227682	49.61	ug/L		100
5) bromomethane	1.379	94	129828	36.09	ug/L		99
6) chloroethane	1.446	64	146453	48.57	ug/L		100
7) dichlorofluoromethane	1.574	67	411419	45.55	ug/L		100
8) trichlorofluoromethane	1.617	101	481025	45.13	ug/L		100
9) ethyl ether	1.818	74	92329	44.57	ug/L		99
10) acrolein	1.910	56	18966	40.89	ug/L	#	99
11) 1,1,2-trichloro-1,2,2-...	1.989	101	214150	46.00	ug/L		99
12) 1,1-dichloroethene	1.983	96	200620	46.39	ug/L		100
13) acetone	2.038	43	5352	3.96	ug/L	#	53
14) iodomethane	2.111	142	14420	2.08	ug/L		99
15) carbon disulfide	0.000		0	N.D.			
16) methyl acetate	2.306	43	92958	34.53	ug/L		98
17) methylene chloride	2.391	49	234093	44.84	ug/L		99
18) acrylonitrile	2.623	53	52206	42.83	ug/L		97
19) trans-1,2-dichloroethene	2.641	96	212187	44.77	ug/L		100
20) methyl (tert) butyl ether	2.660	73	495744	41.95	ug/L		99
21) 1,1-dichloroethane	3.092	63	330419	41.81	ug/L		100
22) vinyl acetate	0.000		0	N.D.			
23) 2,2-dichloropropane	3.830	77	274907	37.80	ug/L		99
24) cis-1,2-dichloroethene	3.848	96	194244	42.39	ug/L		100
25) 2-butanone (MEK)	3.836	43	3098	2.38	ug/L	#	1
26) bromochloromethane	4.202	49	129915	42.92	ug/L		97
27) tetrahydrofuran	4.287	71	11938	35.57	ug/L		95
28) chloroform	4.373	83	379804	41.44	ug/L		100
30) 1,1,1-trichloroethane	4.629	97	380339	41.43	ug/L		98
31) cyclohexane	4.708	56	265569	46.98	ug/L		97
32) carbon tetrachloride	4.927	117	363852	42.53	ug/L		100
33) 1,1-dichloropropene	4.946	75	280621	43.33	ug/L		99
34) benzene	5.324	78	670538	43.03	ug/L		100
35) 1,2-dichloroethane	5.391	62	318901	40.62	ug/L		100
36) heptane	5.860	57	19922	No Calib			
38) trichloroethene	6.482	130	217091	41.57	ug/L		100

00512

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : 08502MSD.D
Acq On : 10 May 2012 19:42
Operator : DLV
Sample : MSD1
Misc : TL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: May 11 07:57:04 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
39)	methylcyclohexane	6.750	83	271608	47.15	ug/L		98
40)	1,2-dichloropropane	6.830	63	147919	43.09	ug/L		100
41)	dibromomethane	7.006	93	108468	40.38	ug/L		99
42)	1,4-dioxane	0.000		0	N.D.			
43)	bromodichloromethane	7.299	83	273306	41.07	ug/L		100
44)	2-chloroethyl vinyl ether	7.982	63	1248	5.00	ug/L	#	41
45)	cis-1,3-dichloropropene	7.982	75	242542	36.34	ug/L		99
46)	4-methyl-2-pentanone (...	8.335	43	2831	3.82	ug/L	#	1
48)	toluene	8.427	91	757274	41.90	ug/L		100
49)	trans-1,3-dichloropropene	8.799	75	254507	36.34	ug/L		98
50)	1,1,2-trichloroethane	9.030	83	109378	40.83	ug/L		99
52)	tetrachloroethene	9.171	166	265320	45.45	ug/L		99
53)	1,3-dichloropropane	9.244	76	252523	46.12	ug/L		99
54)	2-hexanone (MBK)	0.000		0	N.D.			
55)	dibromochloromethane	9.530	129	195055	44.23	ug/L		100
56)	1,2-dibromoethane	9.640	109	141987	43.98	ug/L	#	100
57)	chlorobenzene	10.317	112	532508	45.04	ug/L		99
58)	1-chlorohexane	10.365	55	189430	49.29	ug/L		95
59)	1,1,1,2-tetrachloroethane	10.451	131	211210	45.37	ug/L		99
60)	ethylbenzene	10.500	91	950772	47.44	ug/L		99
61)	m+p-xylene	10.664	106	740249	96.78	ug/L		98
62)	o-xylene	11.164	106	343874	48.63	ug/L		99
63)	styrene	11.188	104	598286	48.41	ug/L		100
64)	bromoform	11.390	173	126957	37.90	ug/L		100
67)	isopropylbenzene	11.658	105	910981	48.43	ug/L		99
68)	bromobenzene	11.981	77	347080	44.33	ug/L		99
69)	1,1,2,2-tetrachloroethane	12.072	83	173181	44.56	ug/L	#	98
70)	1,2,3-trichloropropane	12.091	110	68272	42.60	ug/L		96
71)	1,4-dichloro-2-butene	12.146	53	63141	40.02	ug/L		95
72)	n-propylbenzene	12.188	120	268508	48.55	ug/L		97
73)	2-chlorotoluene	12.255	126	235849	46.44	ug/L		96
74)	1,3,5-trimethylbenzene	12.426	105	831297	47.77	ug/L		99
75)	4-chlorotoluene	12.402	91	813273	46.60	ug/L		100
76)	tert-butylbenzene	12.822	119	703373	48.34	ug/L		100
77)	1,2,4-trimethylbenzene	12.883	105	831244	47.89	ug/L		98
78)	sec-butylbenzene	13.103	105	938595	48.76	ug/L		100
79)	1,3-dichlorobenzene	13.194	146	485928	44.99	ug/L		100
80)	4-isopropyltoluene	13.298	119	854317	47.03	ug/L		99
81)	1,4-dichlorobenzene	13.310	146	493541	44.03	ug/L		100
82)	1,2-dichlorobenzene	13.767	146	441503	45.36	ug/L		99
83)	n-butylbenzene	13.810	91	650188	43.92	ug/L		100
84)	hexachloroethane	14.072	201	117144	40.87	ug/L	#	92
85)	1,2-dibromo-3-chloropr...	14.749	157	36510	37.06	ug/L		97
86)	1,2,4-trichlorobenzene	15.779	180	238153	43.36	ug/L		99
87)	hexachlorobutadiene	16.023	225	128889	42.41	ug/L		99
88)	naphthalene	16.066	128	478601	39.07	ug/L		100
89)	1,2,3-trichlorobenzene	16.370	180	206018	42.84	ug/L		99
90)	2-methylnaphthalene	17.480	142	132351	33.69	ug/L		99

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

00513

LCS / LCS DUPLICATE RECOVERY

USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.

Client: TechLaw

Matrix: Water

SDG: KNM050112

Project: KNM

Laboratory ID: 1205988-BS1

Preparation: 5030B Aqueous Purge & Trap

Initial/Final: 5 mL / 5 mL

Sequence: 2E11012

QC Batch: 1205988

Analyte	Spike Added	LCS Conc.	LCS % Rec. #	QC Limits Rec.	Units
Benzene	40.0	40.5	101	84 - 119	ug/L
Chlorobenzene	40.0	42.5	106	84 - 118	ug/L
1,1-Dichloroethene	40.0	41.9	105	77 - 123	ug/L
Toluene	40.0	39.8	99	85 - 118	ug/L
Trichloroethene	40.0	38.7	97	82 - 119	ug/L

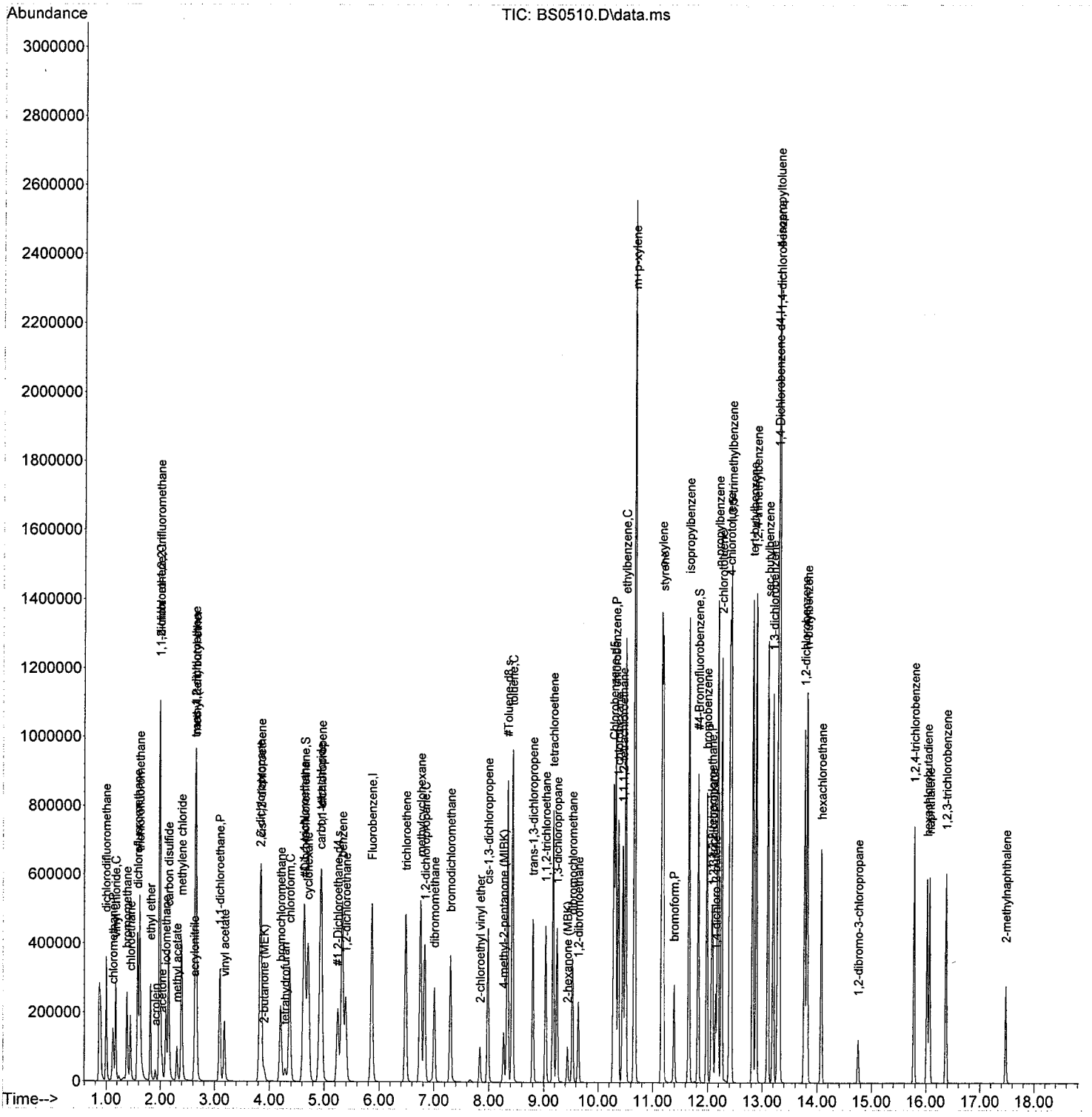
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BS0510.D
Acq On : 10 May 2012 9:05
Operator : DLV
Sample : BS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 09:29:17 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



00515

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BS0510.D
Acq On : 10 May 2012 9:05
Operator : DLV
Sample : BS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 09:29:17 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	5.860	96	599520	40.00	ug/L	-0.02
51) Chlorobenzene-d5	10.280	117	491682	40.00	ug/L	-0.02
66) 1,4-Dichlorobenzene-d4	13.286	152	325360	40.00	ug/L	#-0.01
System Monitoring Compounds						
29) #Dibromofluoromethane	4.647	111	184182	37.89	ug/L	-0.02
Spiked Amount 40.000			Recovery =	94.73%		
37) #1,2-Dichloroethane-d4	5.244	67	116425	39.43	ug/L	-0.02
Spiked Amount 40.000			Recovery =	98.58%		
47) #Toluene-d8	8.335	98	620182	39.45	ug/L	-0.02
Spiked Amount 40.000			Recovery =	98.63%		
65) #4-Bromofluorobenzene	11.828	95	267033	38.86	ug/L	-0.01
Spiked Amount 40.000			Recovery =	97.15%		
Target Compounds						Qvalue
2) dichlorodifluoromethane	0.995	85	273406	43.10	ug/L	100
3) chloromethane	1.123	50	181605	44.35	ug/L	99
4) vinyl chloride	1.172	62	218014	45.66	ug/L	100
5) bromomethane	1.379	94	147929	39.53	ug/L	100
6) chloroethane	1.446	64	138458	44.14	ug/L	100
7) dichlorofluoromethane	1.580	67	391608	41.68	ug/L	100
8) trichlorofluoromethane	1.617	101	454138	40.95	ug/L	100
9) ethyl ether	1.818	74	90982	42.21	ug/L	99
10) acrolein	1.910	56	20100	41.65	ug/L #	99
11) 1,1,2-trichloro-1,2,2-...	1.989	101	202935	41.90	ug/L	99
12) 1,1-dichloroethene	1.989	96	188458	41.88	ug/L	99
13) acetone	2.032	43	48501	34.51	ug/L	99
14) iodomethane	2.105	142	257723	35.77	ug/L	99
15) carbon disulfide	2.154	76	503070	41.91	ug/L	100
16) methyl acetate	2.306	43	111485	39.81	ug/L	98
17) methylene chloride	2.391	49	237565	43.71	ug/L	98
18) acrylonitrile	2.623	53	51321	40.47	ug/L	99
19) trans-1,2-dichloroethene	2.641	96	204813	41.54	ug/L	99
20) methyl (tert) butyl ether	2.653	73	495193	40.28	ug/L	98
21) 1,1-dichloroethane	3.092	63	326904	39.76	ug/L	100
22) vinyl acetate	3.184	43	272296	40.57	ug/L	99
23) 2,2-dichloropropane	3.830	77	299336	39.56	ug/L	100
24) cis-1,2-dichloroethene	3.848	96	192797	40.45	ug/L	99
25) 2-butanone (MEK)	3.903	43	50119	36.97	ug/L	98
26) bromochloromethane	4.208	49	126860	40.29	ug/L	95
27) tetrahydrofuran	4.287	71	11792	33.88	ug/L	87
28) chloroform	4.373	83	370077	38.81	ug/L	100
30) 1,1,1-trichloroethane	4.629	97	366317	38.35	ug/L	98
31) cyclohexane	4.702	56	257048	43.71	ug/L	98
32) carbon tetrachloride	4.927	117	349281	39.24	ug/L	100
33) 1,1-dichloropropene	4.946	75	275332	40.86	ug/L	99
34) benzene	5.324	78	657207	40.54	ug/L	100
35) 1,2-dichloroethane	5.391	62	318609	39.01	ug/L	100
36) heptane	5.860	57	21212	No Calib		
38) trichloroethene	6.482	130	210500	38.74	ug/L	99

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BS0510.D
Acq On : 10 May 2012 9:05
Operator : DLV
Sample : BS
Misc :
ALS Vial : 3 Sample Multiplier: 1

Quant Time: May 10 09:29:17 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	6.750	83	261734	43.67 ug/L	98
40) 1,2-dichloropropane	6.829	63	146971	41.15 ug/L	100
41) dibromomethane	7.000	93	107635	38.52 ug/L	99
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	7.299	83	274482	39.65 ug/L	99
44) 2-chloroethyl vinyl ether	7.835	63	43615	36.06 ug/L	99
45) cis-1,3-dichloropropene	7.982	75	256012	36.86 ug/L	98
46) 4-methyl-2-pentanone (...	8.262	43	101520	35.65 ug/L	96
48) toluene	8.427	91	747517	39.76 ug/L	100
49) trans-1,3-dichloropropene	8.799	75	262232	36.01 ug/L	98
50) 1,1,2-trichloroethane	9.030	83	109417	39.26 ug/L	99
52) tetrachloroethene	9.170	166	256035	41.88 ug/L	100
53) 1,3-dichloropropane	9.244	76	251298	43.82 ug/L	99
54) 2-hexanone (MBK)	9.439	43	67192	36.61 ug/L	97
55) dibromochloromethane	9.530	129	198383	42.96 ug/L	100
56) 1,2-dibromoethane	9.640	109	144611	42.77 ug/L #	100
57) chlorobenzene	10.317	112	525661	42.46 ug/L	99
58) 1-chlorohexane	10.365	55	186277	46.28 ug/L	96
59) 1,1,1,2-tetrachloroethane	10.451	131	208225	42.71 ug/L	99
60) ethylbenzene	10.499	91	928860	44.26 ug/L	99
61) m+p-xylene	10.664	106	721058	90.02 ug/L	98
62) o-xylene	11.164	106	337068	45.52 ug/L	99
63) styrene	11.188	104	590722	45.64 ug/L	99
64) bromoform	11.390	173	128291	36.66 ug/L	100
67) isopropylbenzene	11.658	105	882306	46.57 ug/L	99
68) bromobenzene	11.981	77	346051	43.88 ug/L	99
69) 1,1,2,2-tetrachloroethane	12.072	83	173639	44.36 ug/L #	99
70) 1,2,3-trichloropropane	12.091	110	67754	41.97 ug/L	95
71) 1,4-dichloro-2-butene	12.146	53	65463	41.15 ug/L	94
72) n-propylbenzene	12.188	120	260119	46.70 ug/L	97
73) 2-chlorotoluene	12.255	126	229135	44.79 ug/L	96
74) 1,3,5-trimethylbenzene	12.426	105	803967	45.87 ug/L	99
75) 4-chlorotoluene	12.402	91	789213	44.90 ug/L	99
76) tert-butylbenzene	12.822	119	680456	46.43 ug/L	100
77) 1,2,4-trimethylbenzene	12.883	105	807737	46.20 ug/L	99
78) sec-butylbenzene	13.103	105	904914	46.67 ug/L	100
79) 1,3-dichlorobenzene	13.194	146	472697	43.45 ug/L	100
80) 4-isopropyltoluene	13.298	119	823214	44.99 ug/L	100
81) 1,4-dichlorobenzene	13.310	146	480352	42.54 ug/L	100
82) 1,2-dichlorobenzene	13.767	146	429727	43.83 ug/L	100
83) n-butylbenzene	13.810	91	634521	42.58 ug/L	100
84) hexachloroethane	14.078	201	112201	38.99 ug/L #	92
85) 1,2-dibromo-3-chloropr...	14.749	157	34886	35.28 ug/L	97
86) 1,2,4-trichlorobenzene	15.779	180	235532	42.58 ug/L	99
87) hexachlorobutadiene	16.023	225	128881	42.11 ug/L	99
88) naphthalene	16.065	128	463651	37.67 ug/L	100
89) 1,2,3-trichlorobenzene	16.370	180	201615	41.63 ug/L	100
90) 2-methylnaphthalene	17.480	142	126625	32.12 ug/L	99

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

00517

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc.
SDG: KNM050112
Client: TechLaw
Project: KNM
Matrix: Water
Laboratory ID: 1205988-BLK1
File ID: BLK0510.D
Prepared: 05/10/12 08:00
Analyzed: 05/10/12 09:32
Preparation: 5030B Aqueous Purge &
Initial/Final: 5 mL / 5 mL
QC Batch: 1205988
Sequence: 2E11012
Calibration: 2D27003
Instrument: 328

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
67-64-1	Acetone	5.0	ug/L	1.1	5.0	U
71-43-2	Benzene	1.0	ug/L	0.11	1.0	U
75-27-4	Bromodichloromethane	1.0	ug/L	0.13	1.0	U
75-25-2	Bromoform	1.0	ug/L	0.26	1.0	U
74-83-9	Bromomethane	1.0	ug/L	0.21	1.0	U
75-15-0	Carbon Disulfide	0.26	ug/L	0.23	5.0	J
56-23-5	Carbon Tetrachloride	1.0	ug/L	0.26	1.0	U
108-90-7	Chlorobenzene	1.0	ug/L	0.17	1.0	U
75-00-3	Chloroethane	1.0	ug/L	0.14	1.0	U
67-66-3	Chloroform	1.0	ug/L	0.098	1.0	U
74-87-3	Chloromethane	1.0	ug/L	0.29	1.0	U
110-82-7	Cyclohexane	5.0	ug/L	0.18	5.0	U
96-12-8	1,2-Dibromo-3-chloropropane	1.0	ug/L	0.13	1.0	U
124-48-1	Dibromochloromethane	1.0	ug/L	0.15	1.0	U
106-93-4	1,2-Dibromoethane	1.0	ug/L	0.15	1.0	U
95-50-1	1,2-Dichlorobenzene	0.29	ug/L	0.24	1.0	J
541-73-1	1,3-Dichlorobenzene	0.26	ug/L	0.24	1.0	J
106-46-7	1,4-Dichlorobenzene	0.33	ug/L	0.25	1.0	J
75-71-8	Dichlorodifluoromethane	1.0	ug/L	0.21	1.0	U
75-34-3	1,1-Dichloroethane	1.0	ug/L	0.18	1.0	U
107-06-2	1,2-Dichloroethane	1.0	ug/L	0.21	1.0	U
75-35-4	1,1-Dichloroethene	1.0	ug/L	0.21	1.0	U
156-59-2	cis-1,2-Dichloroethene	1.0	ug/L	0.12	1.0	U
156-60-5	trans-1,2-Dichloroethene	1.0	ug/L	0.20	1.0	U
78-87-5	1,2-Dichloropropane	1.0	ug/L	0.28	1.0	U
10061-01-5	cis-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
10061-02-6	trans-1,3-Dichloropropene	1.0	ug/L	0.19	1.0	U
100-41-4	Ethylbenzene	1.0	ug/L	0.21	1.0	U
591-78-6	2-Hexanone	5.0	ug/L	0.49	5.0	U
98-82-8	Isopropylbenzene	1.0	ug/L	0.22	1.0	U
79-20-9	Methyl Acetate	1.2	ug/L	0.42	5.0	J
1634-04-4	Methyl tert-Butyl Ether	1.0	ug/L	0.19	1.0	U
108-87-2	Methylcyclohexane	5.0	ug/L	0.37	5.0	U
75-09-2	Methylene Chloride	1.0	ug/L	0.24	1.0	U
78-93-3	2-Butanone (MEK)	5.0	ug/L	0.63	5.0	U
108-10-1	4-Methyl-2-pentanone (MIBK)	5.0	ug/L	0.40	5.0	U
100-42-5	Styrene	1.0	ug/L	0.20	1.0	U

00518

METHOD BLANK DATA SHEET
USEPA-8260B

Laboratory: TriMatrix Laboratories, Inc. SDG: KNM050112

Client: TechLaw Project: KNM

Matrix: Water Laboratory ID: 1205988-BLK1 File ID: BLK0510.D

Prepared: 05/10/12 08:00 Analyzed: 05/10/12 09:32

Preparation: 5030B Aqueous Purge & Initial/Final: 5 mL / 5 mL

QC Batch: 1205988 Sequence: 2E11012 Calibration: 2D27003 Instrument: 328

CAS No.	Analyte	Concentration	Unit	MDL	MRL	Q
79-34-5	1,1,2,2-Tetrachloroethane	1.0	ug/L	0.26	1.0	U
127-18-4	Tetrachloroethene	1.0	ug/L	0.23	1.0	U
108-88-3	Toluene	1.0	ug/L	0.18	1.0	U
120-82-1	1,2,4-Trichlorobenzene	1.0	ug/L	0.13	1.0	
71-55-6	1,1,1-Trichloroethane	1.0	ug/L	0.14	1.0	U
79-00-5	1,1,2-Trichloroethane	1.0	ug/L	0.20	1.0	U
79-01-6	Trichloroethene	1.0	ug/L	0.21	1.0	U
75-69-4	Trichlorofluoromethane	1.0	ug/L	0.27	1.0	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	ug/L	0.24	1.0	U
75-01-4	Vinyl Chloride	1.0	ug/L	0.21	1.0	U
1330-20-7	Xylene (Total)	3.0	ug/L	0.39	3.0	U

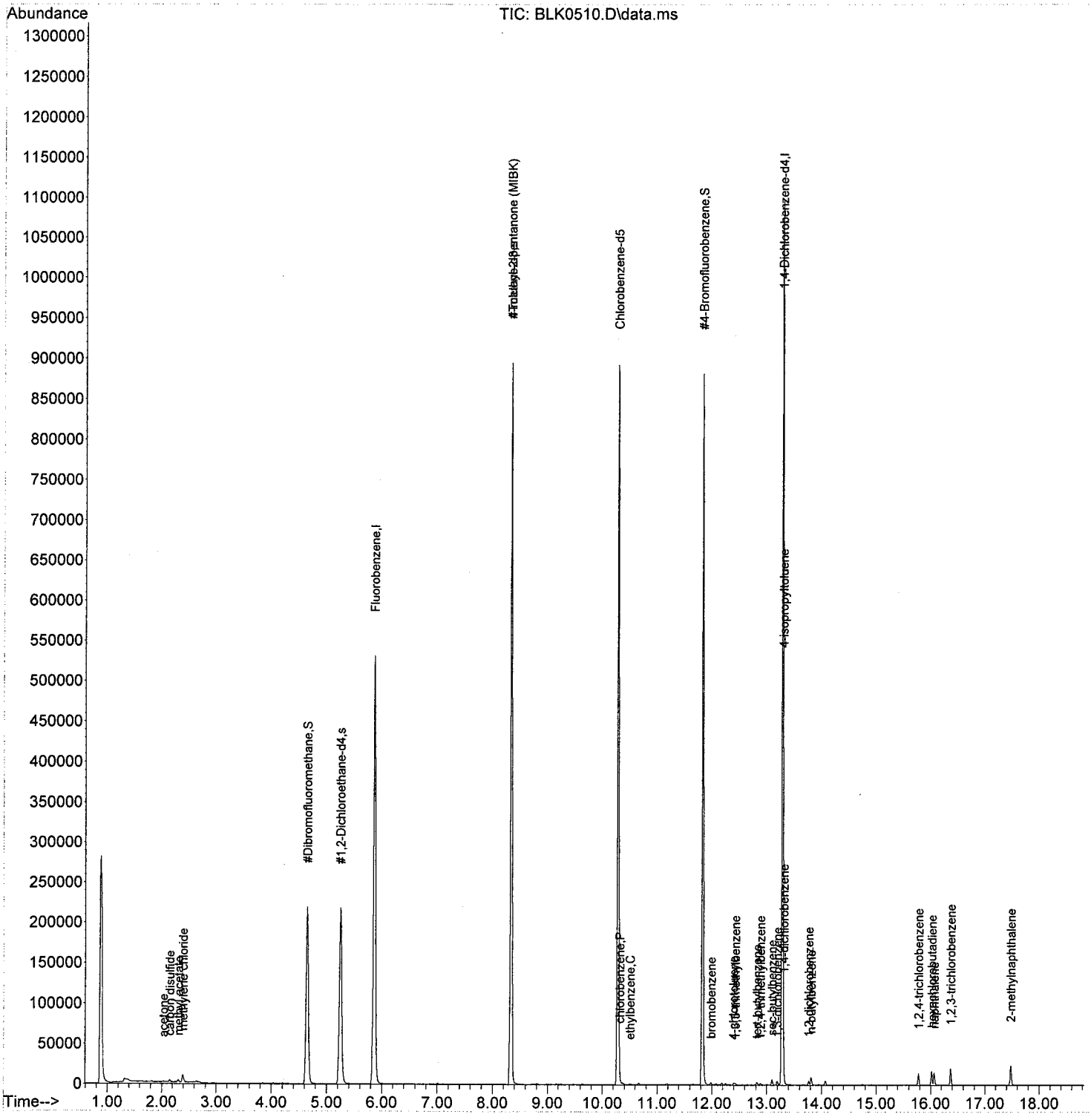
System Monitoring Compound	Added (ug/L)	Conc. (ug/L)	% REC	QC Limits	Q
Dibromofluoromethane	40.0	37.4	94	85 - 118	
1,2-Dichloroethane-d4	40.0	39.5	99	87 - 122	
Toluene-d8	40.0	37.2	93	85 - 113	
4-Bromofluorobenzene	40.0	36.6	92	82 - 110	

Internal Standard	Area	RT	% REC	Ref. RT	Q
Fluorobenzene	625629	5.86	109	5.879	
Chlorobenzene-d5	499689	10.286	105	10.292	
1,4-Dichlorobenzene-d4	301306	13.286	92	13.292	

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BLK0510.D
Acq On : 10 May 2012 9:32
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 09:52:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



00520

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BLK0510.D
Acq On : 10 May 2012 9:32
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 09:52:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
Internal Standards					
1) Fluorobenzene	5.860	96	625629	40.00 ug/L	-0.02
51) Chlorobenzene-d5	10.286	117	499689	40.00 ug/L	-0.01
66) 1,4-Dichlorobenzene-d4	13.286	152	301306	40.00 ug/L	#-0.01
System Monitoring Compounds					
29) #Dibromofluoromethane	4.647	111	189716	37.40 ug/L	-0.02
Spiked Amount 40.000			Recovery =	93.50%	
37) #1,2-Dichloroethane-d4	5.244	67	121696	39.49 ug/L	-0.02
Spiked Amount 40.000			Recovery =	98.73%	
47) #Toluene-d8	8.335	98	609652	37.16 ug/L	-0.02
Spiked Amount 40.000			Recovery =	92.90%	
65) #4-Bromofluorobenzene	11.829	95	255935	36.64 ug/L	-0.01
Spiked Amount 40.000			Recovery =	91.60%	
Target Compounds					Qvalue
2) dichlorodifluoromethane	0.000		0	N.D.	
3) chloromethane	0.000		0	N.D.	
4) vinyl chloride	0.000		0	N.D.	
5) bromomethane	0.000		0	N.D.	
6) chloroethane	0.000		0	N.D.	
7) dichlorofluoromethane	0.000		0	N.D.	
8) trichlorofluoromethane	0.000		0	N.D.	
9) ethyl ether	0.000		0	N.D.	
10) acrolein	0.000		0	N.D.	
11) 1,1,2-trichloro-1,2,2-...	0.000		0	N.D.	
12) 1,1-dichloroethene	0.000		0	N.D.	
13) acetone	2.032	43	1495	1.02 ug/L #	53
14) iodomethane	0.000		0	N.D.	
15) carbon disulfide	2.147	76	3261	0.26 ug/L #	75
16) methyl acetate	2.312	43	3444	1.18 ug/L #	58
17) methylene chloride	2.391	49	5700	0.03 ug/L	92
18) acrylonitrile	0.000		0	N.D.	
19) trans-1,2-dichloroethene	0.000		0	N.D.	
20) methyl (tert) butyl ether	0.000		0	N.D.	
21) 1,1-dichloroethane	0.000		0	N.D.	
22) vinyl acetate	0.000		0	N.D.	
23) 2,2-dichloropropane	0.000		0	N.D.	
24) cis-1,2-dichloroethene	0.000		0	N.D.	
25) 2-butanone (MEK)	0.000		0	N.D.	
26) bromochloromethane	0.000		0	N.D.	
27) tetrahydrofuran	0.000		0	N.D.	
28) chloroform	0.000		0	N.D.	
30) 1,1,1-trichloroethane	0.000		0	N.D.	
31) cyclohexane	0.000		0	N.D.	
32) carbon tetrachloride	0.000		0	N.D.	
33) 1,1-dichloropropene	0.000		0	N.D.	
34) benzene	0.000		0	N.D.	
35) 1,2-dichloroethane	0.000		0	N.D.	
36) heptane	5.860	57	22327	No Calib	
38) trichloroethene	0.000		0	N.D.	

00521

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BLK0510.D
Acq On : 10 May 2012 9:32
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 09:52:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration

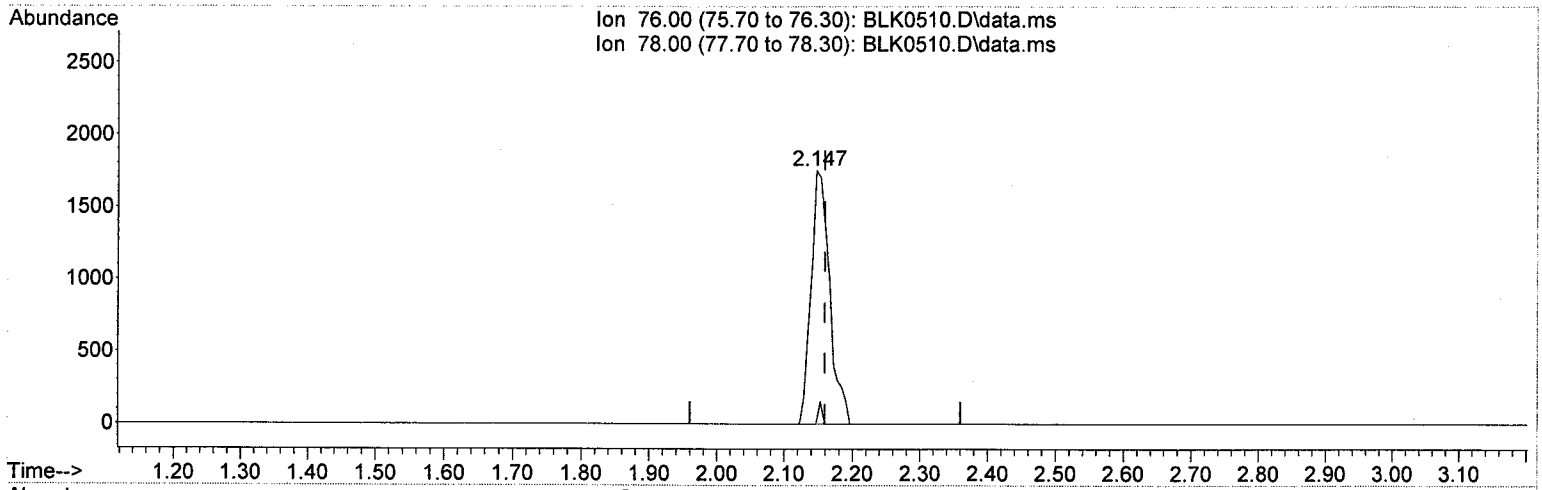
Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
39) methylcyclohexane	0.000		0	N.D.	
40) 1,2-dichloropropane	0.000		0	N.D.	
41) dibromomethane	0.000		0	N.D.	
42) 1,4-dioxane	0.000		0	N.D.	
43) bromodichloromethane	0.000		0	N.D.	
44) 2-chloroethyl vinyl ether	0.000		0	N.D.	
45) cis-1,3-dichloropropene	0.000		0	N.D.	
46) 4-methyl-2-pentanone (...	8.335	43	2740	~~3.71~~ ug/L #	1
48) toluene	0.000		0	N.D.	
49) trans-1,3-dichloropropene	0.000		0	N.D.	
50) 1,1,2-trichloroethane	0.000		0	N.D.	
52) tetrachloroethene	0.000		0	N.D.	
53) 1,3-dichloropropane	0.000		0	N.D.	
54) 2-hexanone (MBK)	0.000		0	N.D.	
55) dibromochloromethane	0.000		0	N.D.	
56) 1,2-dibromoethane	0.000		0	N.D.	
57) chlorobenzene	10.317	112	1229	0.10 ug/L #	29
58) 1-chlorohexane	0.000		0	N.D.	
59) 1,1,1,2-tetrachloroethane	0.000		0	N.D.	
60) ethylbenzene	10.506	91	1275	0.06 ug/L #	44
61) m+p-xylene	0.000		0	N.D.	
62) o-xylene	0.000		0	N.D.	
63) styrene	0.000		0	N.D.	
64) bromoform	0.000		0	N.D.	
67) isopropylbenzene	0.000		0	N.D.	
68) bromobenzene	11.987	77	1386	0.19 ug/L #	13
69) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	
70) 1,2,3-trichloropropane	0.000		0	N.D.	
71) 1,4-dichloro-2-butene	0.000		0	N.D.	
72) n-propylbenzene	0.000		0	N.D.	
73) 2-chlorotoluene	0.000		0	N.D.	
74) 1,3,5-trimethylbenzene	12.426	105	1786	0.11 ug/L #	29
75) 4-chlorotoluene	12.395	91	2092	0.13 ug/L #	45
76) tert-butylbenzene	12.822	119	2145	0.16 ug/L #	86
77) 1,2,4-trimethylbenzene	12.883	105	1688	0.10 ug/L #	32
78) sec-butylbenzene	13.097	105	4727	0.26 ug/L #	54
79) 1,3-dichlorobenzene	13.194	146	2603	0.26 ug/L #	72
80) 4-isopropyltoluene	13.298	119	5917	0.35 ug/L	85
81) 1,4-dichlorobenzene	13.310	146	3472	0.33 ug/L #	61
82) 1,2-dichlorobenzene	13.767	146	2621	0.29 ug/L #	71
83) n-butylbenzene	13.810	91	5636	0.96 ug/L	97
84) hexachloroethane	0.000		0	N.D.	
85) 1,2-dibromo-3-chloropr...	0.000		0	N.D.	
86) 1,2,4-trichlorobenzene	15.779	180	5220	1.02 ug/L	99
87) hexachlorobutadiene	16.023	225	3976	1.40 ug/L	100
88) naphthalene	16.065	128	14082	3.64 ug/L #	93
89) 1,2,3-trichlorobenzene	16.370	180	7114	1.59 ug/L	98
90) 2-methylnaphthalene	17.480	142	13540	5.71 ug/L	96

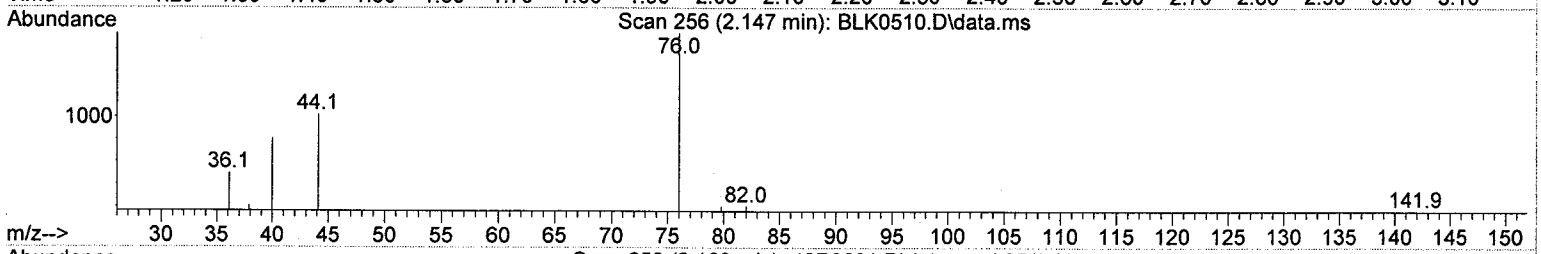
(#) = qualifier out of range (m) = manual integration (+) = signals summed

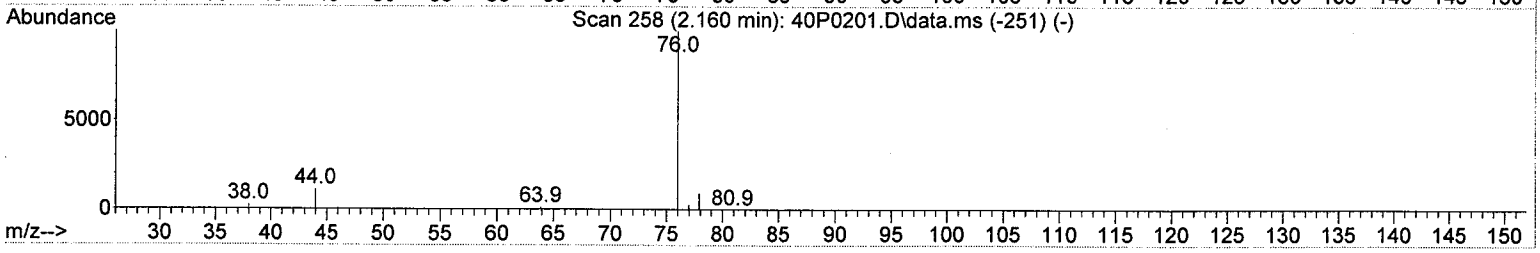
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BLK0510.D
Acq On : 10 May 2012 9:32
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 09:52:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: BLK0510.D\data.ms

(15) carbon disulfide

2.147min (-0.013) 0.26 ug/L

response 3261

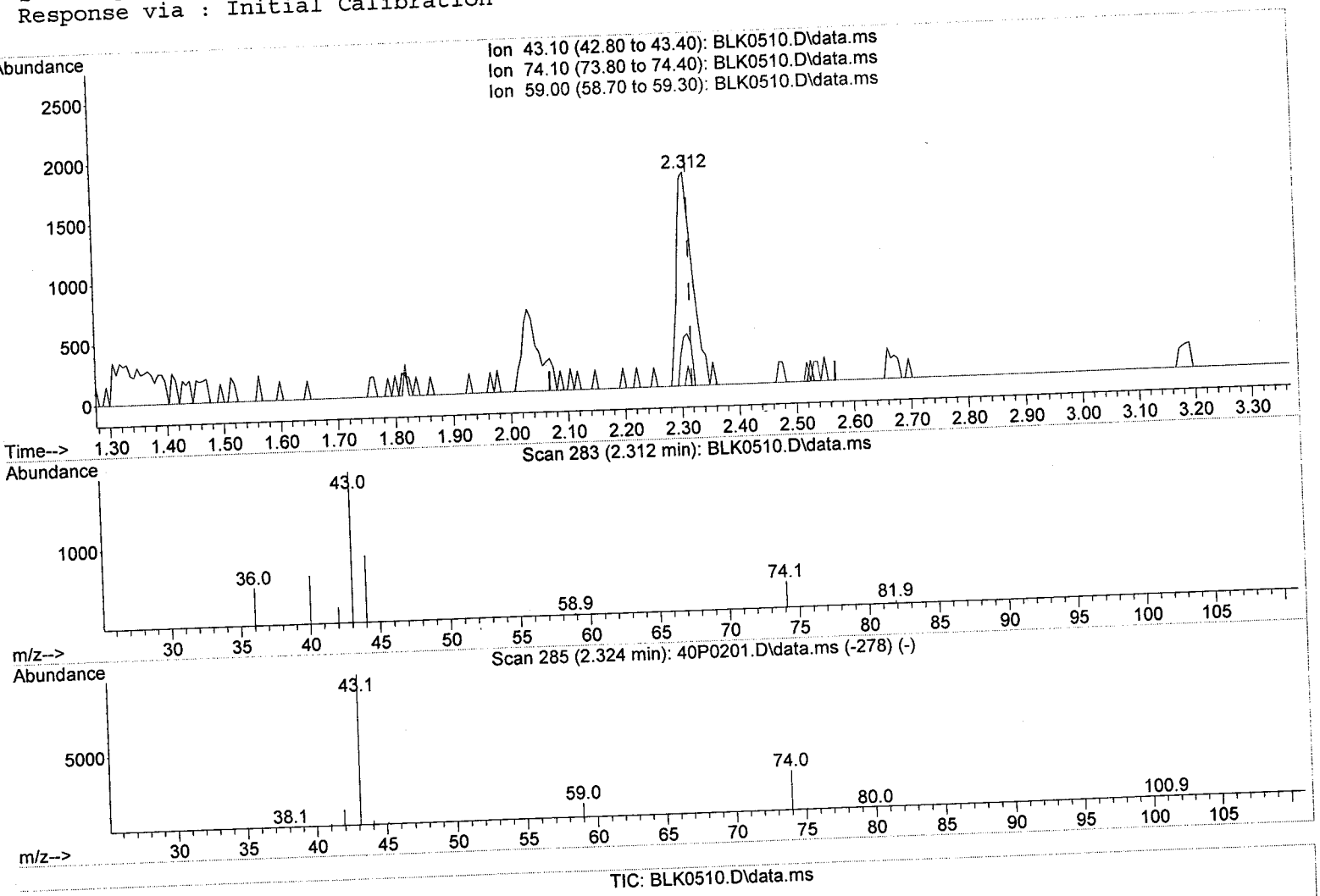
Ion	Exp%	Act%
76.00	100	100
78.00	9.10	0.00#
0.00	0.00	0.00
0.00	0.00	0.00

00523

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BLK0510.D
Acq On : 10 May 2012 9:32
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 09:52:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



TIC: BLK0510.D\data.ms

(16) methyl acetate

2.312min (-0.006) 1.18 ug/L

response 3444

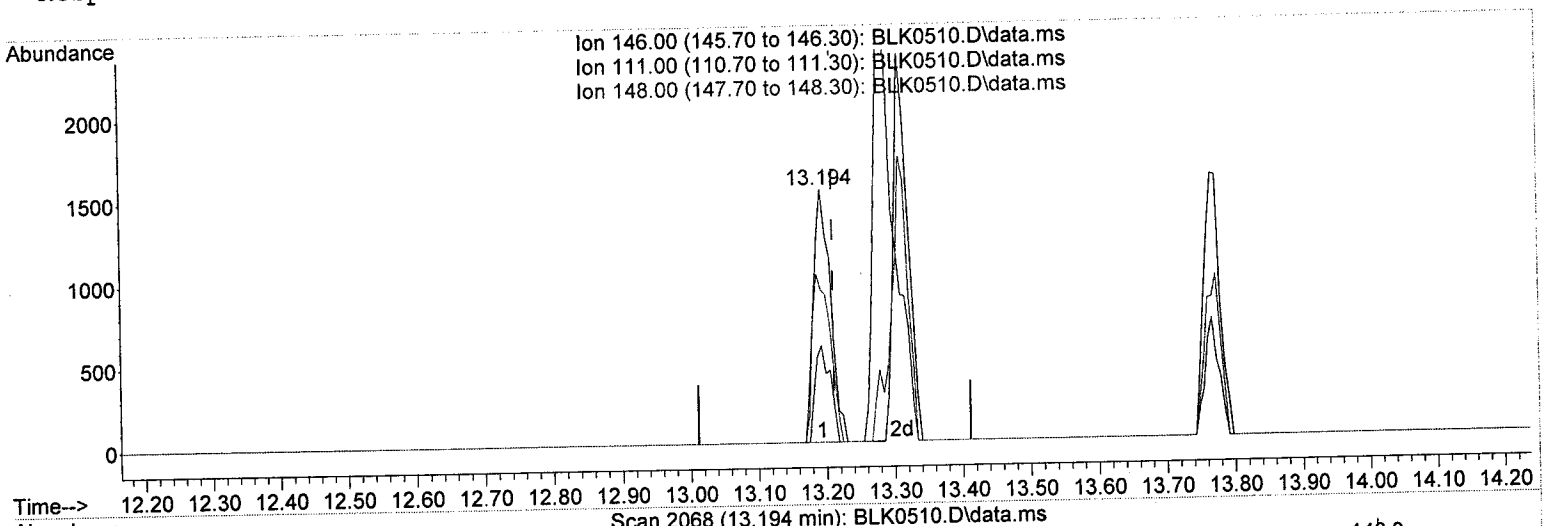
Ion	Exp%	Act%
43.10	100	100
74.10	24.00	0.00#
59.00	10.00	0.00
0.00	0.00	0.00

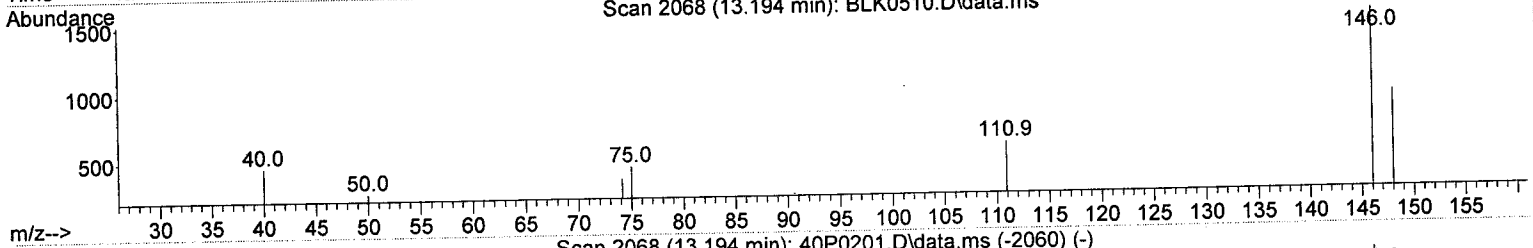
00524

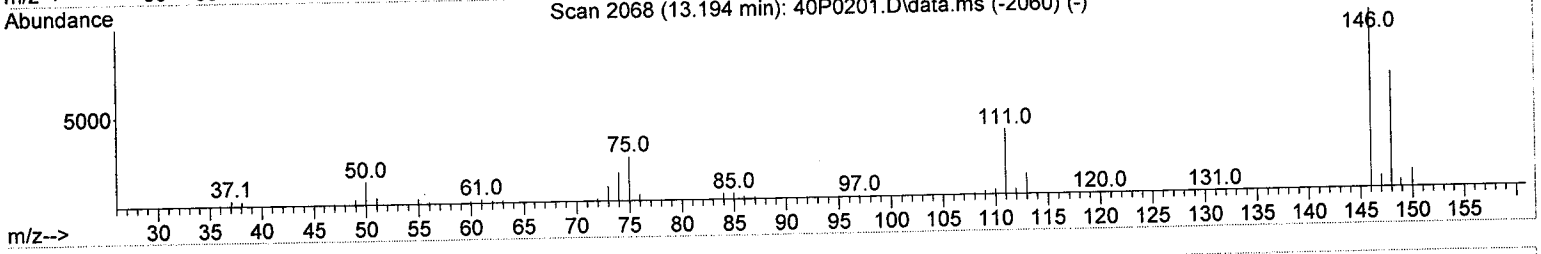
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BLK0510.D
Acq On : 10 May 2012 9:32
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 09:52:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: BLK0510.D\data.ms

(79) 1,3-dichlorobenzene

13.194min (-0.018) 0.26 ug/L

response 2603

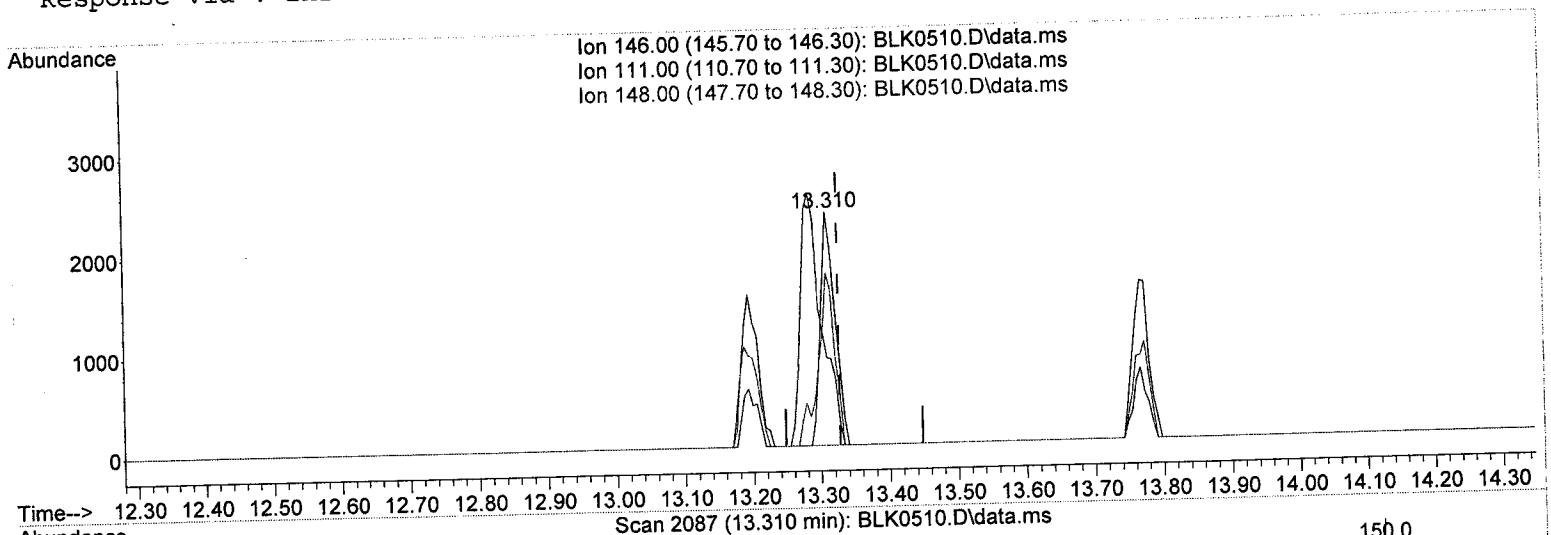
Ion	Exp%	Act%
146.00	100	100
111.00	38.40	0.00#
148.00	64.10	70.03
0.00	0.00	0.00

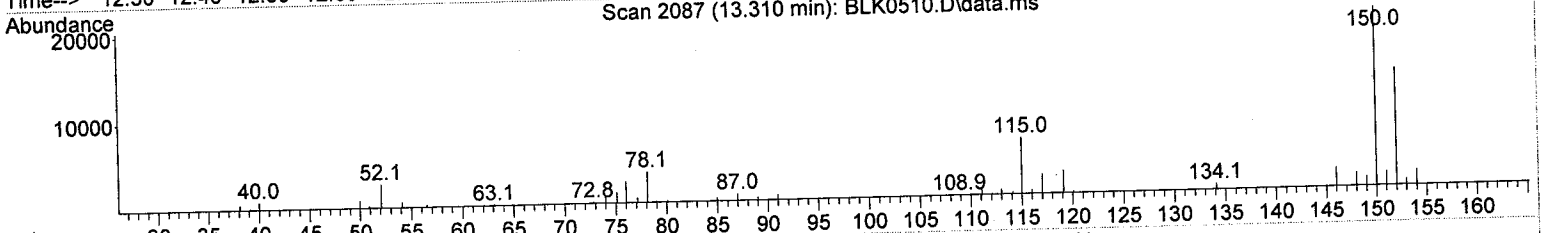
00525

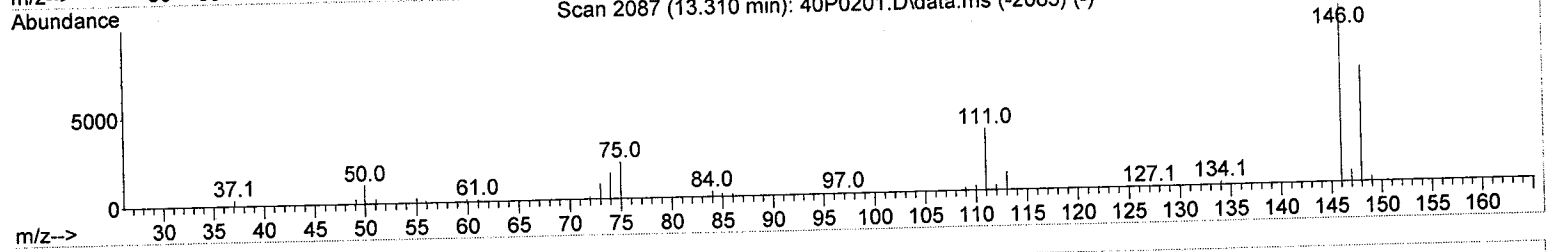
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BLK0510.D
Acq On : 10 May 2012 9:32
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 09:52:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: BLK0510.D\data.ms

(81) 1,4-dichlorobenzene

13.310min (-0.018) 0.33 ug/L

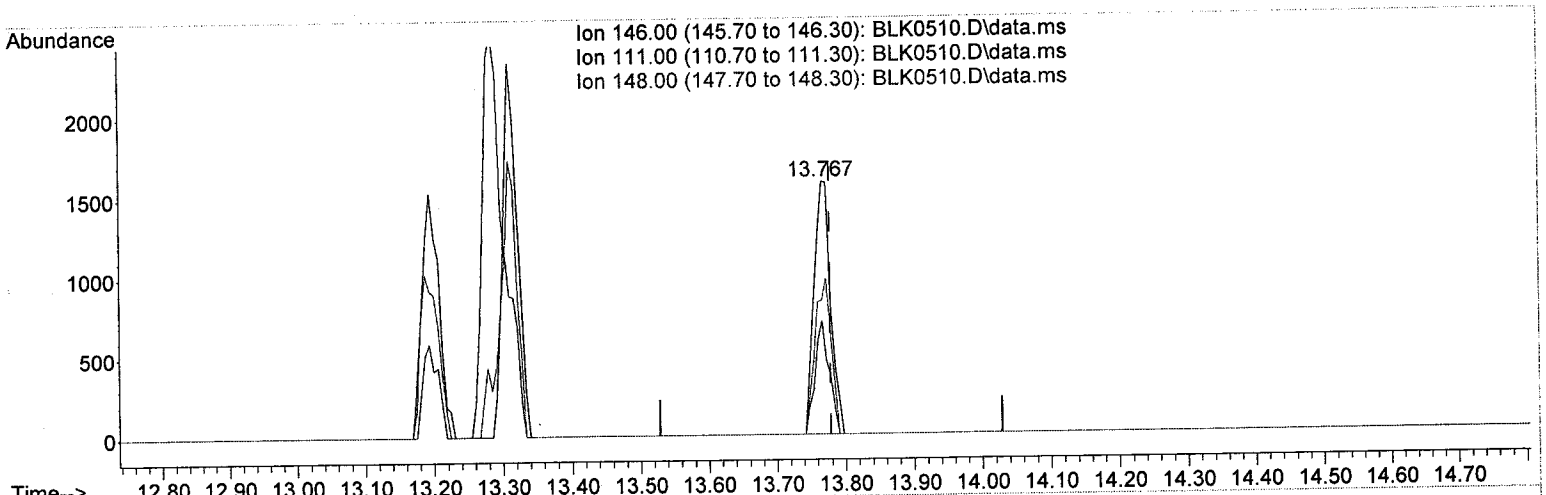
response 3472

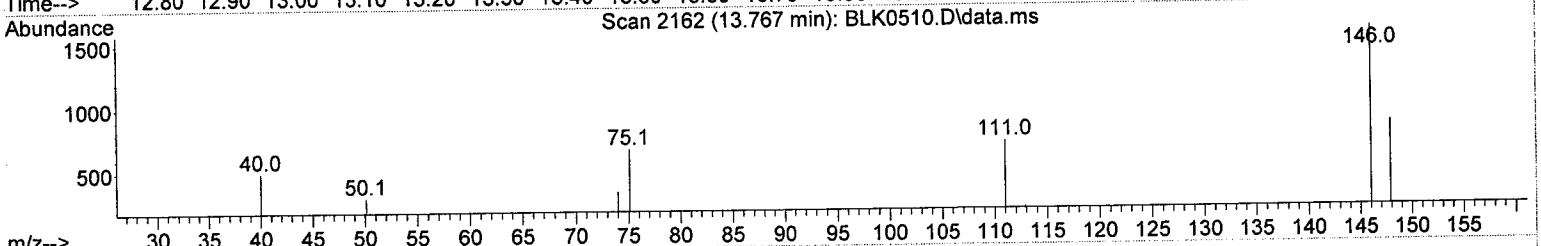
Ion	Exp%	Act%
146.00	100	100
111.00	37.10	0.00#
148.00	64.30	84.74#
0.00	0.00	0.00

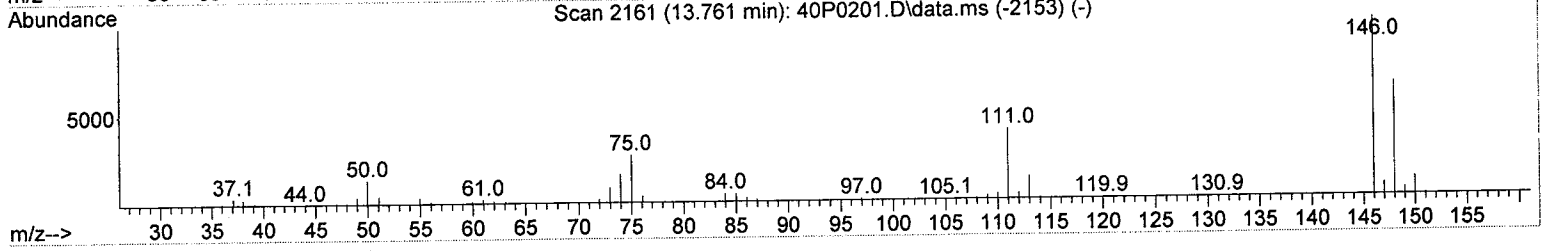
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BLK0510.D
Acq On : 10 May 2012 9:32
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 09:52:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration







TIC: BLK0510.D\data.ms

(82) 1,2-dichlorobenzene

13.767min (-0.012) 0.29 ug/L

response 2621

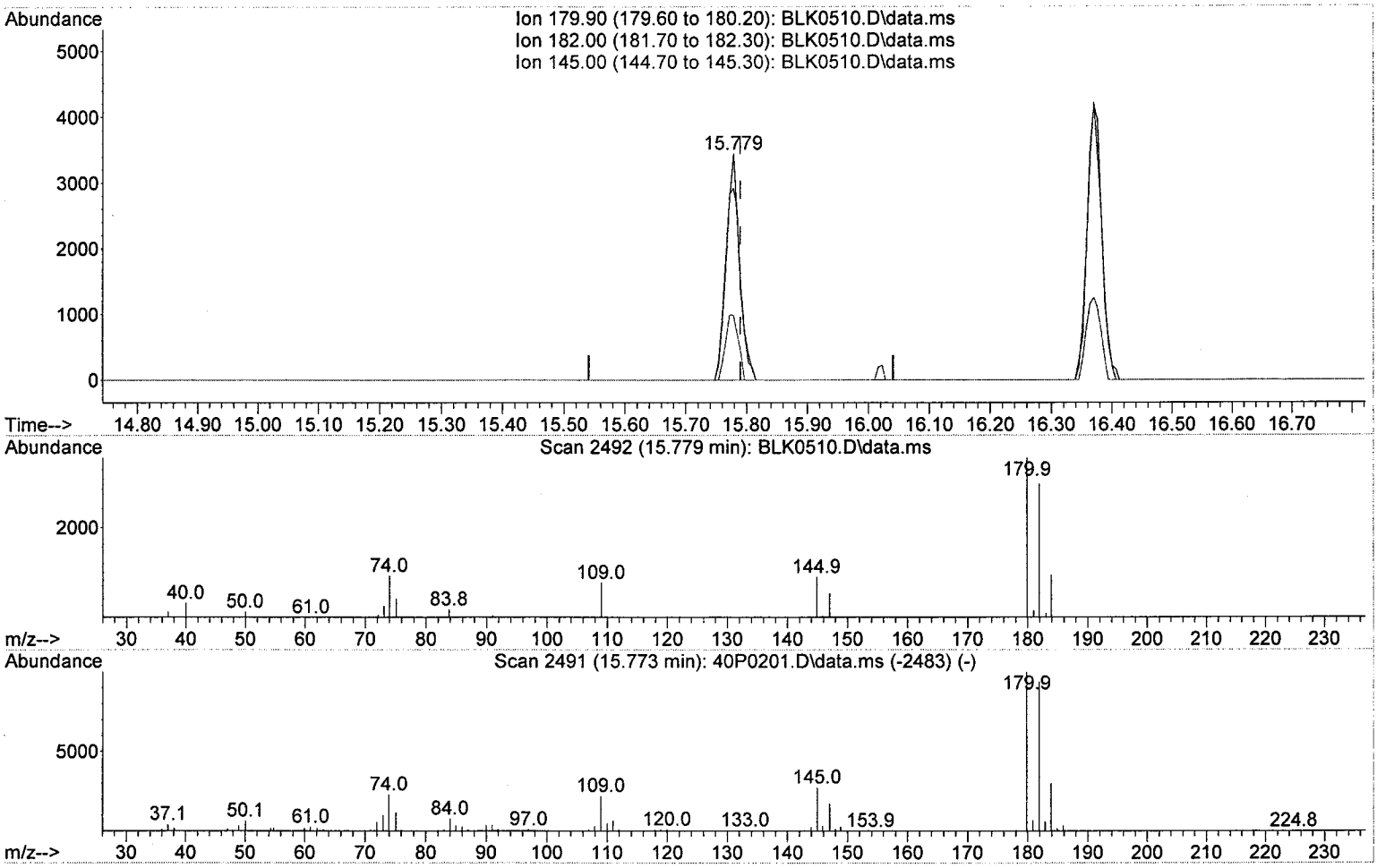
Ion	Exp%	Act%
146.00	100	100
111.00	40.10	0.00#
148.00	64.30	59.21
0.00	0.00	0.00

00527

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\05-10-12\
InstName : 328
Data File : BLK0510.D
Acq On : 10 May 2012 9:32
Operator : DLV
Sample : BLK
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 10 09:52:35 2012
Quant Method : C:\msdchem\1\METHODS\8260B-WB60.M
Quant Title : 8260B/624/524.2 : 5030 wtr : 5035a soil
QLast Update : Fri May 04 12:28:39 2012
Response via : Initial Calibration



TIC: BLK0510.D\data.ms

(86) 1,2,4-trichlorobenzene

15.779min (-0.012) 1.02 ug/L

response 5220

Ion	Exp%	Act%
179.90	100	100
182.00	96.00	96.70
145.00	29.00	27.68
0.00	0.00	0.00

00528

TriMatrix Laboratories, Inc.

PREPARATION BATCH 1205988

Printed: 5/11/2012 8:34:49AM

Volatiles MS, Water, 5030B Aqueous Purge & Trap

Surrogate #1 = 2010284 (Static)

Batch Comments: (none)

92569

Standard	Description	Solvent	LotNum
2010284	8260B Static Surrogate 01-10-12	MeOH H45E36	CD-1263
2050365	8260 Working Standard B 05-08-1	MeOH-G50E19	NA

Work Order	Analysis	Work Order	Analysis	Work Order	Analysis
1205072	8260B TCL OLM 4.3 VOAs	1205073	8260B TCL OLM 4.3 VOAs	1205085	8260B TCL OLM 4.3 VOAs

Balance ID: _____ **pH Meter:** _____

Lab Number	*Contain*	*Prepared*	*By*	*Initial (mL)*	*Final (mL)*	*uL Surrogate*	*Source ID*	*Spike ID*	*uL Spike*	*Client / QC Type*	*Extraction Comments*
1205988-BLK1		May-10-12 08:00	DLV	5	5	1				BLANK	
1205988-BS1		May-10-12 08:00	DLV	5	5	1		2050365	2	LCS	
1205988-MS1		May-10-12 08:00	DLV	5	5	1	1205085-02	2050365	2	MATRIX SPIKE	
1205988-MSD1		May-10-12 08:00	DLV	5	5	1	1205085-02	2050365	2	MATRIX SPIKE DUP	
1205072-01	C	May-10-12 08:00	DLV	5	5	1				TechLaw	
1205073-01	C	May-10-12 08:00	DLV	5	5	1				TechLaw	
1205085-01	C	May-10-12 08:00	DLV	5	5	1				TechLaw	
1205085-02	G	May-10-12 08:00	DLV	5	5	1				TechLaw	

Comments:

Analyst Initials:

Volatiles MS, Water, May-10-12

Instrument= 328, Calibration = 2D27003

Sequence Analyses:
8260B TCL OLM 4.3 VOAs

Lab Number	*Analysis*	*Contain*	*STD ID*	*ISTD ID*	*Client / QC Type*	*Extraction Comments*
2E11012-TUN1	QC		2031374	2041263	MS TUNE	
2E11012-CCV1	QC		2041200	2041263	CALIBRATION CHECK	
1205988-BS1	QC			2041263	LCS	
1205988-BLK1	QC			2041263	BLANK	
1205072-01	8260B TCL OLM 4.3 VOAs	C		2041263	TechLaw	
1205073-01	8260B TCL OLM 4.3 VOAs	C		2041263	TechLaw	
1205085-01	8260B TCL OLM 4.3 VOAs	C		2041263	TechLaw	
1205085-02	8260B TCL OLM 4.3 VOAs	G		2041263	TechLaw	
1205988-MS1	QC			2041263	MATRIX SPIKE	
1205988-MSD1	QC			2041263	MATRIX SPIKE DUP	

Comments:

Analyst Initials:

TRIMATRIX LABORATORIES

Instrument Number:	328
Column Type:	DB-624
Column Installation Date:	12/23/2009
Injector Temperature:	200° C
Detector Temperature:	230° C
Purge Flow (mL/min):	

Acquisition Information	
Multiplier Voltage:	
Scan Range:	35-300
Scan Rate:	
Filament Delay:	
Quantitation Method:	

Temperature Program	
Step #1	45° C for 3 minutes
Step #2	15° C/minute to 200° C, hold for 1.00 minute
Step #3	
Step #4	
Step #5	

Standard Information	
Curve Date:	4-24-12
IS/SS Std.:	7031416
Working Std:	2041165
App. IX Std:	
LCS Std:	7041010

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
4-24-12	DCJ	8260B	25	50			7:37		BFB0424		
			20	50			8:05		CCV0424		
							8:32		R1		
							9:00		R2		
			1	100			9:54		IP0424		
			5				10:21		5P0424		
			10				10:49		10P0424		
			20				11:16		20P0424		
			40				11:44		40P0424		
			50	50			12:12		100P0424		
							12:39		B		
			100	50			13:07		200P0424		
							13:35		B1		
							14:03		B2		
			70	50			14:31		SCV0424		
			25	50			15:05		BFB0424A		
			20				15:32		CCV0424A		
			1				16:00		BS0424A		
							16:27		B		
							16:55		BLK0424A		

9531

TRIMATRIX LABORATORIES

Instrument Number:	328
Column Type:	DB-624
Column Installation Date:	12/23/2009
Injector Temperature:	200° C
Detector Temperature:	230° C
Purge Flow (mL/min):	

Acquisition Information	
Multiplier Voltage:	
Scan Range:	35-300
Scan Rate:	
Filament Delay:	
Quantitation Method:	

Temperature Program	
Step #1	45° C for 3 minutes
Step #2	15° C/minute to 200° C, hold for 1.00 minute
Step #3	
Step #4	
Step #5	

Standard Information	
Curve Date:	4-24-12
IS/SS Std.:	20314116
Working Std:	1205136
App. IX Std:	
LCS Std:	

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
5-10-12	DLV	8260B	25	50			8:09	QC	BFB0510		
			20				8:37		CCV0510		
			25				9:05		BS0510		
							9:32		BLK0510		
		624				✓	10:00	[redacted]	1205141-01		
						✓	10:27		1205196-01		
							10:55	[redacted]	1205132-28	200x	
					@50x	✓	11:23	[redacted]	1505096-01	50x	
		624				✓	11:51		02	20x	
						✓	12:19		03	5x	
						✓	12:46		04	20x	
						✓	13:14		05		
						✓	13:41		06		
						✓	14:09		07		
						✓	14:37	T.L.	1205072-01		
		8260B				✓	15:05		1205073-01		
						✓	15:32		1205085-01		
						✓	16:00		02		
						NA	16:28	[redacted]	1205171-01		
						NA	16:56		02		
						NA	17:23		03		

00532

TRIMATRIX LABORATORIES

Date	Analyst	Method	Standard Prep uL Used	Standard Prep Final Vol. (mL)	Comments	pH <2	Acquisition Time	Client	Sample ID	Dilution	Matrix
5-10-12	DW	8260b				✓	17:51	[redacted]	1205167-01		
						✓	18:19		02	10x	
						✓	18:46		03		
							19:14	T.L.	08502 MS		
							19:42		MSD		
			25	50			20:37	QC	BFB0510B		
			26	|			21:05		CCV0510A		
			20	|			21:33		BS0510A		
							22:00		BLK0510A		
						✓	22:28	[redacted]	1205095-01		
						✓	22:55		02		
						✓	23:23		03		
						✓	23:51		04		
						✓	00:18		05		
5-11-12						✓	00:46		06		
						✓	1:14		07		
						✓	1:42		08		
						✓	2:09		09		
						✓	2:37		1205133-01		
						✓	3:05		02		
						✓	3:32		03		
						✓	4:00		04		
					w str		4:28		05	2.5x	
						✓	4:55		06	5x	
						✓	5:23		07		
						✓	5:51		08		
						✓	6:18		09		
					w 2x		6:46	[redacted]	1205122-01		
						✓	7:14	[redacted]	1205180-01		
							7:41	[redacted]	09501MS		
							8:09		09501MSD		