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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-16
Client ID: FTA-SW-06-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: CHF4156.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145314

Analysis Date: 27-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 09-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C11-C22 Aromatics	U	71	ug/L	1	100	94.	47.	71.
C9-C18 Aliphatics	U	71	ug/L	1	100	94.	47.	71.
C19-C36 Aliphatics	U	71	ug/L	1	100	94.	47.	71.
C11-C22 Aromatics	U	71	ug/L	1	100	94.	47.	71.
5-Alpha Androstane		43.5	%					
o-Terphenyl		60.1	%					
2-Fluorobiphenyl		76.2	%					
2-Bromonaphthalene		76.3	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-18
Client ID: FTA-SW-07-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: CHF4157.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145314

Analysis Date: 27-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 09-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C11-C22 Aromatics	U	74	ug/L	1	100	99.	50.	74.
C9-C18 Aliphatics	U	74	ug/L	1	100	99.	50.	74.
C19-C36 Aliphatics	U	74	ug/L	1	100	99.	50.	74.
C11-C22 Aromatics	U	74	ug/L	1	100	99.	50.	74.
5-Alpha Androstane	*	37.5	%					
o-Terphenyl		57.0	%					
2-Fluorobiphenyl		73.7	%					
2-Bromonaphthalene		73.8	%					

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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-18RE
Client ID: FTA-SW-07-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: CHG2059.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 30-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145668

Analysis Date: 07-JUL-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 17-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C11-C22 Aromatics	JB	71	ug/L	1	100	97.	48.	73.
C9-C18 Aliphatics	U	73	ug/L	1	100	97.	48.	73.
C19-C36 Aliphatics	U	73	ug/L	1	100	97.	48.	73.
C11-C22 Aromatics	JB	71	ug/L	1	100	97.	48.	73.
5-Alpha Androstane	*	34.8	%					
o-Terphenyl	*	38.8	%					
2-Fluorobiphenyl		73.6	%					
2-Bromonaphthalene		74.7	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-20
Client ID: FTA-SW-08-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: CHF4158.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145314

Analysis Date: 27-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 09-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C11-C22 Aromatics	U	71	ug/L	1	100	94.	47.	71.
C9-C18 Aliphatics	U	71	ug/L	1	100	94.	47.	71.
C19-C36 Aliphatics	U	71	ug/L	1	100	94.	47.	71.
C11-C22 Aromatics	U	71	ug/L	1	100	94.	47.	71.
5-Alpha Androstane		39.6	%					
o-Terphenyl		64.0	%					
2-Fluorobiphenyl		74.8	%					
2-Bromonaphthalene		75.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-22
Client ID: FTA-SW-DUP01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: CHF4159.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145314

Analysis Date: 27-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 09-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C11-C22 Aromatics	U	71	ug/L	1	100	94.	47.	71.
C9-C18 Aliphatics	U	71	ug/L	1	100	94.	47.	71.
C19-C36 Aliphatics	U	71	ug/L	1	100	94.	47.	71.
C11-C22 Aromatics	U	71	ug/L	1	100	94.	47.	71.
5-Alpha Androstane		41.7	%					
o-Terphenyl		67.5	%					
2-Fluorobiphenyl		74.0	%					
2-Bromonaphthalene		74.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-24
Client ID: FTA-SD-RB01-062014
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: CHF4160.D

Sample Date: 20-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145314

Analysis Date: 27-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 09-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C11-C22 Aromatics	U	71	ug/L	1	100	94.	47.	71.
C9-C18 Aliphatics	U	71	ug/L	1	100	94.	47.	71.
C19-C36 Aliphatics	U	71	ug/L	1	100	94.	47.	71.
C11-C22 Aromatics	U	71	ug/L	1	100	94.	47.	71.
5-Alpha Androstane		57.7	%					
o-Terphenyl		70.4	%					
2-Fluorobiphenyl		73.1	%					
2-Bromonaphthalene		73.1	%					

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Report of Analytical Results

Client:
Lab ID: WG145094-1
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: CHF4036.D

Sample Date:
Received Date:
Extract Date: 20-JUN-14
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG145094

Analysis Date: 23-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 09-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C11-C22 Aromatics	U	75	ug/L	1	100	100	50.	75.
C9-C18 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C19-C36 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C11-C22 Aromatics	U	75	ug/L	1	100	100	50.	75.
5-Alpha Androstane		67.7	%					
o-Terphenyl		82.1	%					
2-Fluorobiphenyl		90.6	%					
2-Bromonaphthalene		90.3	%					

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Report of Analytical Results

Client:
Lab ID: WG145314-1
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: CHF4134.D

Sample Date:
Received Date:
Extract Date: 24-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145314

Analysis Date: 26-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 09-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C11-C22 Aromatics	U	75	ug/L	1	100	100	50.	75.
C9-C18 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C19-C36 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C11-C22 Aromatics	U	75	ug/L	1	100	100	50.	75.
5-Alpha Androstane		65.6	%					
o-Terphenyl		74.8	%					
2-Fluorobiphenyl		80.1	%					
2-Bromonaphthalene		81.0	%					

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Report of Analytical Results

Client:
Lab ID: WG145668-1
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: CHG2055.D

Sample Date:
Received Date:
Extract Date: 30-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145668

Analysis Date: 07-JUL-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 09-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C11-C22 Aromatics	J	57	ug/L	1	100	100	50.	75.
C9-C18 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C19-C36 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C11-C22 Aromatics	J	57	ug/L	1	100	100	50.	75.
5-Alpha Androstane		55.4	%					
o-Terphenyl		65.9	%					
2-Fluorobiphenyl		74.7	%					
2-Bromonaphthalene		74.8	%					

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Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NCTAMSLANT Cutler CTO WE53 **Matrix:** AQ
Lab Code: KAS **SDG:** WE53-7

Client Sample ID	Lab Sample ID	Col. ID	2BN	#	2FBP	#	5AA	#	OTP	#
FTA-MW-5-061814	SH4401-10	A	79.8		80.1		56.4		71.3	
FTA-MW-203-061814	SH4401-12	A	93.6		93.5		64.8		86.3	
FTA-GW-DUP01-061814	SH4401-14	A	92.9		91.6		62.3		82.3	
FTA-MW-218-061814	SH4401-16	A	94.4		93.4		57.1		90.8	
FTA-MW-206-061814	SH4401-18	A	87.0		86.6		62.7		80.8	
FTA-MW-9-061714	SH4401-2	A	84.1		84.0		65.8		83.3	
FTA-MW-14-061714	SH4401-20	A	82.8		82.7		56.1		77.5	
FTA-MW-10-061714	SH4401-4	A	93.6		93.3		65.5		83.9	
FTA-MW-11-061714	SH4401-6	A	93.0		92.8		60.3		88.2	
FTA-MW-12-061714	SH4401-8	A	87.3		87.0		52.2		76.4	
FTA-SW-01-061914	SH4521-10	A	72.6		71.9		52.0		68.1	
FTA-SW-02-061914	SH4521-12	A	70.3		70.3		42.2		65.2	
FTA-SW-03-061914	SH4521-14	A	74.7		74.6		49.9		68.0	
FTA-SW-06-061914	SH4521-16	A	76.3		76.2		43.5		60.1	
FTA-SW-07-061914	SH4521-18	A	73.8		73.7		37.5	*	57.0	
FTA-SW-07-061914	SH4521-18RE	A	74.7		73.6		34.8	*	38.8	*
FTA-MW-208-061814	SH4521-2	A	72.4		72.0		59.6		69.9	
FTA-SW-08-061914	SH4521-20	A	75.1		74.8		39.6		64.0	
FTA-SW-DUP01-061914	SH4521-22	A	74.6		74.0		41.7		67.5	
FTA-SD-RB01-062014	SH4521-24	A	73.1		73.1		57.7		70.4	
FTA-MW-1-061814	SH4521-4	A	74.2		72.6		51.4		69.1	
FTA-GW-DUP02-061814	SH4521-6	A	71.4		71.4		53.5		65.5	
FTA-MW-210-061814	SH4521-8	A	66.4		66.9		49.0		66.6	
Method Blank Sample	WG145094-1	A	90.3		90.6		67.7		82.1	
Laboratory Control S	WG145094-2	A	92.9		92.1		76.4		91.2	
Laboratory Control S	WG145094-3	A	68.9		67.4		76.9		80.1	
Method Blank Sample	WG145314-1	A	81.0		80.1		65.6		74.8	
Laboratory Control S	WG145314-2	A	79.6		79.4		68.3		75.7	
Laboratory Control S	WG145314-3	A	76.7		76.0		71.7		77.9	
Matrix Spike	WG145314-4	A	75.5		75.4		61.2		73.8	
Matrix Spike Duplica	WG145314-5	A	76.0		75.0		61.5		75.3	
Matrix Spike	WG145314-6	A	75.0		74.4		56.0		71.6	
Matrix Spike Duplica	WG145314-7	A	73.5		74.4		57.6		74.4	
Method Blank Sample	WG145668-1	A	74.8		74.7		55.4		65.9	
Laboratory Control S	WG145668-2	A	78.3		77.2		64.0		67.6	
Laboratory Control S	WG145668-3	A	84.4		84.2		60.9		68.9	

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NCTAMSLANT Cutler CTO WE53 **Matrix:** AQ
Lab Code: KAS **SDG:** WE53-7

Client Sample ID	Lab Sample ID	Col. ID	2BN	#	2FBP	#	5AA	#	OTP	#

		QC Limits
5AA	5-ALPHA ANDROSTANE	40-140
OTP	O-TERPHENYL	40-140
2FBP	2-FLUOROBIPHENYL	40-140
2BN	2-BROMONAPHTHALENE	40-140

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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LCS/LCSD Recovery Report

LCS ID: WG145094-2
LCSD ID: WG145094-3
Project:
SDG: WE53-7
Report Date: 09-JUL-14
LCS File ID: CHF4037.D

Received Date:
Extract Date: 20-JUN-14
Extracted By: KF
Extraction Method: SW846 3510
Lab Prep Batch: WG145094
LCSD File ID: CHF3038A.d

Analysis Date: 23-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Unadjusted C11-C22 Aromatics	1530	1410	92.2	1180	77.1	ug/L	18	25	40-140
C9-C18 Aliphatics	540.	359.	66.5	353.	65.4	ug/L	2	25	40-140
C19-C36 Aliphatics	720.	602.	83.6	581.	80.7	ug/L	4	25	40-140
5-Alpha Androstane			76.4		76.9				40-140
o-Terphenyl			91.2		80.1				40-140
2-Fluorobiphenyl			92.1		67.4				40-140
2-Bromonaphthalene			92.9		68.9				40-140

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LCS/LCSD Recovery Report

LCS ID: WG145314-2
LCSD ID: WG145314-3
Project:
SDG: WE53-7
Report Date: 09-JUL-14
LCS File ID: CHF4135.D

Received Date:
Extract Date: 24-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145314
LCSD File ID: CHF3136A.d

Analysis Date: 26-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Unadjusted C11-C22 Aromatics	1530	1040	68.0	1100	71.9	ug/L	6	25	40-140
C9-C18 Aliphatics	540.	256.	47.4	265.	49.1	ug/L	3	25	40-140
C19-C36 Aliphatics	720.	517.	71.8	600.	83.3	ug/L	15	25	40-140
5-Alpha Androstane			68.3		71.7				40-140
o-Terphenyl			75.7		77.9				40-140
2-Fluorobiphenyl			79.4		76.0				40-140
2-Bromonaphthalene			79.6		76.7				40-140

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LCS/LCSD Recovery Report

LCS ID: WG145668-2
LCSD ID: WG145668-3
Project:
SDG: WE53-7
Report Date: 09-JUL-14
LCS File ID: CHG2056.D

Received Date:
Extract Date: 30-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145668
LCSD File ID: CHG1057.d

Analysis Date: 07-JUL-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Unadjusted C11-C22 Aromatics	1530	889.	58.1	1050	68.6	ug/L	17	25	40-140
C9-C18 Aliphatics	540.	188.	34.8*	231.	42.8	ug/L	20	25	40-140
C19-C36 Aliphatics	720.	472.	65.6	546.	75.8	ug/L	14	25	40-140
5-Alpha Androstane			64.0		60.9				40-140
o-Terphenyl			67.6		68.9				40-140
2-Fluorobiphenyl			77.2		84.2				40-140
2-Bromonaphthalene			78.3		84.4				40-140

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MS/MSD Recovery Report

MS ID: WG145314-4
MSD ID: WG145314-5
Sample ID: SH4521-8
Client ID: FTA-MW-210-061814
Project:
SDG: WE53-7
MS File ID: CHF4137.D

Received Date:
Extract Date: 24-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145314
Report Date: 09-JUL-14
MSD File ID: CHF3138A.d

Analysis Date: 26-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Unadjusted C11-C22 Aromatics	1540	1510	ug/L	U72	1160	1110	75.0	73.3	4	25	40-140
C9-C18 Aliphatics	545.	535.	ug/L	U72	320	259	58.7	48.4	21	25	40-140
C19-C36 Aliphatics	727.	713.	ug/L	U72	559	590	76.9	82.8	5	25	40-140
5-Alpha Androstane							61.2	61.5			40-140
o-Terphenyl							73.8	75.3			40-140
2-Fluorobiphenyl							75.4	75.0			40-140
2-Bromonaphthalene							75.5	76.0			40-140

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MS/MSD Recovery Report

MS ID: WG145314-6
MSD ID: WG145314-7
Sample ID: SH4521-14
Client ID: FTA-SW-03-061914
Project:
SDG: WE53-7
MS File ID: CHF4139.D

Received Date:
Extract Date: 24-JUN-14
Extracted By: AM
Extraction Method: SW846 3510
Lab Prep Batch: WG145314
Report Date: 09-JUL-14
MSD File ID: CHF3140.d

Analysis Date: 26-JUN-14
Analyst: AC
Analysis Method: MA DEP EPH 04-1.1
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Unadjusted C11-C22 Aromatics	1470	1470	ug/L	U71	1060	1090	72.0	74.1	3	25	40-140
C9-C18 Aliphatics	519.	519.	ug/L	U71	247	257	47.6	49.5	4	25	40-140
C19-C36 Aliphatics	692.	692.	ug/L	U71	489	534	70.6	77.1	9	25	40-140
5-Alpha Androstane							56.0	57.6			40-140
o-Terphenyl							71.6	74.4			40-140
2-Fluorobiphenyl							74.4	74.4			40-140
2-Bromonaphthalene							75.0	73.5			40-140

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P.O. Box 540, Scarborough, ME 04070
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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : CHF3036.D
Instrument ID : GC12

SDG : WE53-7
Lab Sample ID : WG145094-1
Date Analyzed : 23-JUN-14
Time Analyzed : 13:31
Date Extracted : 20-JUN-14

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145094-2	CHF3037.D	06/23/14	14:16
Laboratory Control S	WG145094-3	CHF3038.D	06/23/14	15:02
FTA-MW-9-061714	SH4401-2	CHF3039.D	06/23/14	15:55
FTA-MW-10-061714	SH4401-4	CHF3040.D	06/23/14	16:40
FTA-MW-11-061714	SH4401-6	CHF3041.D	06/23/14	17:26
FTA-MW-12-061714	SH4401-8	CHF3042.D	06/23/14	18:11
FTA-MW-5-061814	SH4401-10	CHF3043.D	06/23/14	18:56
FTA-MW-203-061814	SH4401-12	CHF3044.D	06/23/14	19:41
FTA-GW-DUP01-061814	SH4401-14	CHF3045.D	06/23/14	20:27
FTA-MW-218-061814	SH4401-16	CHF3046.D	06/23/14	21:12
FTA-MW-206-061814	SH4401-18	CHF3047.D	06/23/14	21:57
FTA-MW-14-061714	SH4401-20	CHF3048.D	06/23/14	22:43

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : CHF4036.D
Instrument ID : GC12

SDG : WE53-7
Lab Sample ID : WG145094-1
Date Analyzed : 23-JUN-14
Time Analyzed : 13:31
Date Extracted : 20-JUN-14

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145094-2	CHF4037.D	06/23/14	14:16
Laboratory Control S	WG145094-3	CHF4038.D	06/23/14	15:02
FTA-MW-9-061714	SH4401-2	CHF4039.D	06/23/14	15:55
FTA-MW-10-061714	SH4401-4	CHF4040.D	06/23/14	16:40
FTA-MW-11-061714	SH4401-6	CHF4041.D	06/23/14	17:26
FTA-MW-12-061714	SH4401-8	CHF4042.D	06/23/14	18:11
FTA-MW-5-061814	SH4401-10	CHF4043.D	06/23/14	18:56
FTA-MW-203-061814	SH4401-12	CHF4044.D	06/23/14	19:41
FTA-GW-DUP01-061814	SH4401-14	CHF4045.D	06/23/14	20:27
FTA-MW-218-061814	SH4401-16	CHF4046.D	06/23/14	21:12
FTA-MW-206-061814	SH4401-18	CHF4047.D	06/23/14	21:57
FTA-MW-14-061714	SH4401-20	CHF4048.D	06/23/14	22:43

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : CHF3134.D
Instrument ID : GC12

SDG : WE53-7
Lab Sample ID : WG145314-1
Date Analyzed : 26-JUN-14
Time Analyzed : 18:30
Date Extracted : 24-JUN-14

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145314-2	CHF3135.D	06/26/14	19:16
Laboratory Control S	WG145314-3	CHF3136.D	06/26/14	20:01
Matrix Spike	WG145314-4	CHF3137.D	06/26/14	20:46
Matrix Spike Duplica	WG145314-5	CHF3138.D	06/26/14	21:32
Matrix Spike	WG145314-6	CHF3139.D	06/26/14	22:17
Matrix Spike Duplica	WG145314-7	CHF3140.D	06/26/14	23:02
FTA-MW-208-061814	SH4521-2	CHF3149.D	06/27/14	05:48
FTA-MW-1-061814	SH4521-4	CHF3150.D	06/27/14	06:34
FTA-GW-DUP02-061814	SH4521-6	CHF3151.D	06/27/14	07:19
FTA-MW-210-061814	SH4521-8	CHF3152.D	06/27/14	08:04
FTA-SW-01-061914	SH4521-10	CHF3153.D	06/27/14	08:50
FTA-SW-02-061914	SH4521-12	CHF3154.D	06/27/14	09:35
FTA-SW-03-061914	SH4521-14	CHF3155.D	06/27/14	10:20
FTA-SW-06-061914	SH4521-16	CHF3156.D	06/27/14	11:05
FTA-SW-07-061914	SH4521-18	CHF3157.D	06/27/14	11:51
FTA-SW-08-061914	SH4521-20	CHF3158.D	06/27/14	12:36
FTA-SW-DUP01-061914	SH4521-22	CHF3159.D	06/27/14	13:21
FTA-SD-RB01-062014	SH4521-24	CHF3160.D	06/27/14	14:06

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : CHF4134.D
Instrument ID : GC12

SDG : WE53-7
Lab Sample ID : WG145314-1
Date Analyzed : 26-JUN-14
Time Analyzed : 18:30
Date Extracted : 24-JUN-14

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145314-2	CHF4135.D	06/26/14	19:16
Laboratory Control S	WG145314-3	CHF4136.D	06/26/14	20:01
Matrix Spike	WG145314-4	CHF4137.D	06/26/14	20:46
Matrix Spike Duplica	WG145314-5	CHF4138.D	06/26/14	21:32
Matrix Spike	WG145314-6	CHF4139.D	06/26/14	22:17
Matrix Spike Duplica	WG145314-7	CHF4140.D	06/26/14	23:02
FTA-MW-208-061814	SH4521-2	CHF4149.D	06/27/14	05:48
FTA-MW-1-061814	SH4521-4	CHF4150.D	06/27/14	06:34
FTA-GW-DUP02-061814	SH4521-6	CHF4151.D	06/27/14	07:19
FTA-MW-210-061814	SH4521-8	CHF4152.D	06/27/14	08:04
FTA-SW-01-061914	SH4521-10	CHF4153.D	06/27/14	08:50
FTA-SW-02-061914	SH4521-12	CHF4154.D	06/27/14	09:35
FTA-SW-03-061914	SH4521-14	CHF4155.D	06/27/14	10:20
FTA-SW-06-061914	SH4521-16	CHF4156.D	06/27/14	11:05
FTA-SW-07-061914	SH4521-18	CHF4157.D	06/27/14	11:51
FTA-SW-08-061914	SH4521-20	CHF4158.D	06/27/14	12:36
FTA-SW-DUP01-061914	SH4521-22	CHF4159.D	06/27/14	13:21
FTA-SD-RB01-062014	SH4521-24	CHF4160.D	06/27/14	14:06

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : CHG1055.D
Instrument ID : GC12

SDG : WE53-7
Lab Sample ID : WG145668-1
Date Analyzed : 07-JUL-14
Time Analyzed : 12:17
Date Extracted : 30-JUN-14

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145668-2	CHG1056.I	07/07/14	13:02
Laboratory Control S	WG145668-3	CHG1057.I	07/07/14	13:47
FTA-SW-07-061914	SH4521-18RE	CHG1059.I	07/07/14	15:19

Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : CHG2055.D
Instrument ID : GC12

SDG : WE53-7
Lab Sample ID : WG145668-1
Date Analyzed : 07-JUL-14
Time Analyzed : 12:17
Date Extracted : 30-JUN-14

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145668-2	CHG2056.I	07/07/14	13:02
Laboratory Control S	WG145668-3	CHG2057.I	07/07/14	13:47
FTA-SW-07-061914	SH4521-18RE	CHG2059.I	07/07/14	15:19

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File IDs : CHE1016.d CHE1015.d CHE1012.d CHE1014.d CHE1013.d

SDG: WE53-7
Instrument ID: GC12
Column ID: A
Calibration Date(s): 06-MAY-14 19:22
06-MAY-14 22:23

	1.0000 Level 1	10.0000 Level 2	50.0000 Level 3	100.0000 Level 4	200.0000 Level 5		New Crv	b	m1	m2	%RSD	Max %RSD	
Unadjusted C11-C22 Aromatic	12949	11930	13036	11675	14154		AVG		12749		7.76288	25.00000	M (
Naphthalene	13363	12297	13073	11913	13927		AVG		12915		6.28371	25.00000	O
2-Methylnaphthalene	13117	12180	12939	11786	13944		AVG		12793		6.58918	25.00000	O
Acenaphthylene	13079	12025	12723	11674	13973		AVG		12695		7.12519	25.00000	O
Acenaphthene	13488	12303	13092	11915	14203		AVG		13000		7.04555	25.00000	O
Fluorene	13819	12219	12951	11767	14131		AVG		12977		7.78304	25.00000	O
Phenanthrene	12835	12262	13056	11839	14235		AVG		12845		7.10300	25.00000	O
Anthracene	11924	10622	11297	10684	12890		AVG		11484		8.24773	25.00000	O
Fluoranthene	13152	12029	12847	11625	14066		AVG		12744		7.53319	25.00000	O
Pyrene	13340	12325	13165	11917	14435		AVG		13036		7.49864	25.00000	O
Benzo(a)Anthracene	13084	11723	12687	11434	13980		AVG		12582		8.21492	25.00000	O
Chrysene	13136	11901	12841	11515	14006		AVG		12680		7.84313	25.00000	O
Benzo(b)Fluoranthene	13943	13321	13631	12444	16048		AVG		13877		9.62930	25.00000	O
Benzo(k)Fluoranthene	12477	10992	14539	11384	13239		AVG		12526		11.44195	25.00000	O
Benzo(a)Pyrene	12744	11738	12787	11532	14196		AVG		12599		8.40505	25.00000	O
Indeno(1,2,3-cd)Pyrene	12921	12310	13266	12931	16578		AVG		13601		12.49626	25.00000	O
Dibenzo(a,h)Anthracene	11751	11024	13835	10527	12443		AVG		11916		10.87323	25.00000	O
Benzo(g,h,i)Perylene	11961	11545	12884	11595	14316		AVG		12460		9.37686	25.00000	O
2-Fluorobiphenyl	12555	11221	11805	10745	12911		AVG		11847		7.59742	25.00000	
2-Bromonaphthalene	8493	7583	8055	7341	8829		AVG		8060		7.65641	25.00000	
O-Terphenyl	13943	12414	13162	11960	14381		AVG		13172		7.68398	25.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File IDs : CHE2016.d CHE2015.d CHE2012.d CHE2014.d CHE2013.d

SDG: WE53-7
Instrument ID: GC12
Column ID: A
Calibration Date(s): 06-MAY-14 19:22
06-MAY-14 22:23

	Level 1	Level 2	Level 3	Level 4	Level 5		Crv					Max	
	1.0000	10.0000	50.0000	100.0000	200.0000		New	b	m1	m2	%RSD	%RSD	
C9-C18 Aliphatic	12773	11971	12325	11859	12038		AVG		12193		3.00943	25.00000	M (
C19-C36 Aliphatic	12420	12164	12543	12059	12201		AVG		12277		1.61406	25.00000	M (
C-9	12108	11676	12159	11694	11877		AVG		11903		1.89464	30.00000	O
C-10	15197	12126	12333	11812	11971		AVG		12688		11.15931	25.00000	O
C-12	12289	11876	12262	11818	11997		AVG		12048		1.80298	25.00000	O
C-14	12230	11964	12317	11867	12053		AVG		12086		1.53862	25.00000	O
C-16	12447	12055	12407	11952	12137		AVG		12200		1.78922	25.00000	O
C-18	12368	12130	12469	12011	12196		AVG		12235		1.50285	25.00000	O
C-19	12126	12028	12389	11933	12126		AVG		12120		1.40487	25.00000	O
C-20	12379	12061	12427	11966	12162		AVG		12199		1.63498	25.00000	O
C-22	12453	12158	12549	12063	12247		AVG		12294		1.64974	25.00000	O
C-24	12545	12281	12670	12162	12167		AVG		12365		1.86509	25.00000	O
C-26	12574	12192	12538	12033	12110		AVG		12289		2.03459	25.00000	O
C-28	12660	12177	12570	12086	12220		AVG		12343		2.06724	25.00000	O
C-30	12477	12163	12572	12066	12238		AVG		12303		1.73715	25.00000	O
C-36	12146	12255	12629	12166	12335		AVG		12306		1.59070	25.00000	O
5-alpha androstane	13303	12695	13047	12573	12770		AVG		12878		2.28748	25.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145269-1
Lab File ID : CHF3035.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 06/23/14 12:45
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Naphthalene	12915	15165	0.010	17.42731	25.00000	Averaged
3	2-Methylnaphthalene	12793	15015	0.010	17.37147	25.00000	Averaged
5	Acenaphthylene	12695	14938	0.010	17.67197	25.00000	Averaged
7	Acenaphthene	13000	15256	0.010	17.34917	25.00000	Averaged
8	Fluorene	12977	15017	0.010	15.71816	25.00000	Averaged
9	Phenanthrene	12845	15209	0.010	18.40387	25.00000	Averaged
10	Anthracene	11484	13606	0.010	18.48158	25.00000	Averaged
12	Fluoranthene	12744	15056	0.010	18.14333	25.00000	Averaged
13	Pyrene	13036	15425	0.010	18.32573	25.00000	Averaged
16	Benzo(a)Anthracene	12582	14618	0.010	16.18486	25.00000	Averaged
17	Chrysene	12680	14782	0.010	16.57914	25.00000	Averaged
18	Benzo(b)Fluoranthene	13877	16647	0.010	19.96068	25.00000	Averaged
19	Benzo(k)Fluoranthene	12526	13980	0.010	11.60490	25.00000	Averaged
20	Benzo(a)Pyrene	12599	14675	0.010	16.47557	25.00000	Averaged
21	Indeno(1,2,3-cd)Pyrene	13601	16062	0.010	18.08763	25.00000	Averaged
22	Dibenzo(a,h)Anthracene	11916	13227	0.010	11.00551	25.00000	Averaged
23	Benzo(g,h,i)Perylene	12460	14860	0.010	19.25871	25.00000	Averaged
4	2-Fluorobiphenyl	11847	13766	0.010	16.19885	25.00000	Averaged
6	2-Bromonaphthalene	8060	9370	0.010	16.24629	25.00000	Averaged
11	O-Terphenyl	13172	15571	0.010	18.21522	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145269-2
Lab File ID : CHF3057.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 06/24/14 05:29
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Naphthalene	12915	14299	0.010	10.72053	25.00000	Averaged
3	2-Methylnaphthalene	12793	14174	0.010	10.79544	25.00000	Averaged
5	Acenaphthylene	12695	14072	0.010	10.84939	25.00000	Averaged
7	Acenaphthene	13000	14398	0.010	10.75219	25.00000	Averaged
8	Fluorene	12977	14221	0.010	9.58301	25.00000	Averaged
9	Phenanthrene	12845	14358	0.010	11.77949	25.00000	Averaged
10	Anthracene	11484	12820	0.010	11.63423	25.00000	Averaged
12	Fluoranthene	12744	14193	0.010	11.37359	25.00000	Averaged
13	Pyrene	13036	14548	0.010	11.59367	25.00000	Averaged
16	Benzo(a)Anthracene	12582	13855	0.010	10.12550	25.00000	Averaged
17	Chrysene	12680	14016	0.010	10.53262	25.00000	Averaged
18	Benzo(b)Fluoranthene	13877	15455	0.010	11.36934	25.00000	Averaged
19	Benzo(k)Fluoranthene	12526	13555	0.010	8.21136	25.00000	Averaged
20	Benzo(a)Pyrene	12599	13931	0.010	10.57024	25.00000	Averaged
21	Indeno(1,2,3-cd)Pyrene	13601	15259	0.010	12.18513	25.00000	Averaged
22	Dibenzo(a,h)Anthracene	11916	12950	0.010	8.67822	25.00000	Averaged
23	Benzo(g,h,i)Perylene	12460	14110	0.010	13.24322	25.00000	Averaged
4	2-Fluorobiphenyl	11847	12928	0.010	9.11790	25.00000	Averaged
6	2-Bromonaphthalene	8060	8833	0.010	9.59061	25.00000	Averaged
11	O-Terphenyl	13172	14658	0.010	11.28419	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145269-9
Lab File ID : CHF4033.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 06/23/14 11:08
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	C9-C18 Aliphatic	12193	12962	0.010	6.30500	25.00000	Averaged
2	C19-C36 Aliphatic	12277	13066	0.010	6.42559	25.00000	Averaged
3	C-9	11903	12692	0.010	6.62819	30.00000	Averaged
4	C-10	12688	12952	0.010	2.08153	25.00000	Averaged
5	C-12	12048	12873	0.010	6.84071	25.00000	Averaged
7	C-14	12086	12988	0.010	7.46133	25.00000	Averaged
8	C-16	12200	13096	0.010	7.34923	25.00000	Averaged
9	C-18	12235	13172	0.010	7.66003	25.00000	Averaged
10	C-19	12120	13086	0.010	7.96871	25.00000	Averaged
11	C-20	12199	13125	0.010	7.58897	25.00000	Averaged
13	C-22	12294	13255	0.010	7.82033	25.00000	Averaged
14	C-24	12365	13403	0.010	8.39601	25.00000	Averaged
15	C-26	12289	13253	0.010	7.84172	25.00000	Averaged
16	C-28	12343	13244	0.010	7.29956	25.00000	Averaged
18	C-30	12303	13158	0.010	6.94453	25.00000	Averaged
19	C-36	12306	12007	0.010	-2.42926	25.00000	Averaged
44	5-alpha androstane	12878	13762	0.010	6.86616	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145269-10
Lab File ID : CHF4057.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 06/24/14 05:29
Instrument ID: GC12
Column ID: A

	Compound	$\overline{\text{RRF}}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	C9-C18 Aliphatic	12193	12910	0.010	5.87895	25.00000	Averaged
2	C19-C36 Aliphatic	12277	13283	0.010	8.19025	25.00000	Averaged
3	C-9	11903	12600	0.010	5.85542	30.00000	Averaged
4	C-10	12688	12757	0.010	0.54761	25.00000	Averaged
5	C-12	12048	12841	0.010	6.58159	25.00000	Averaged
7	C-14	12086	12965	0.010	7.27037	25.00000	Averaged
8	C-16	12200	13106	0.010	7.42956	25.00000	Averaged
9	C-18	12235	13191	0.010	7.81826	25.00000	Averaged
10	C-19	12120	13180	0.010	8.73799	25.00000	Averaged
11	C-20	12199	13176	0.010	8.01279	25.00000	Averaged
13	C-22	12294	13305	0.010	8.22444	25.00000	Averaged
14	C-24	12365	13404	0.010	8.40652	25.00000	Averaged
15	C-26	12289	13318	0.010	8.37225	25.00000	Averaged
16	C-28	12343	13391	0.010	8.49589	25.00000	Averaged
18	C-30	12303	13362	0.010	8.60881	25.00000	Averaged
19	C-36	12306	13127	0.010	6.66878	25.00000	Averaged
44	5-alpha androstane	12878	13861	0.010	7.63882	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145456-2
Lab File ID : CHF3120.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 06/26/14 05:55
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Naphthalene	12915	13769	0.010	6.61482	25.00000	Averaged
3	2-Methylnaphthalene	12793	13669	0.010	6.84910	25.00000	Averaged
5	Acenaphthylene	12695	13538	0.010	6.64288	25.00000	Averaged
7	Acenaphthene	13000	13906	0.010	6.96579	25.00000	Averaged
8	Fluorene	12977	13765	0.010	6.06920	25.00000	Averaged
9	Phenanthrene	12845	13911	0.010	8.29682	25.00000	Averaged
10	Anthracene	11484	12393	0.010	7.92092	25.00000	Averaged
12	Fluoranthene	12744	13725	0.010	7.70294	25.00000	Averaged
13	Pyrene	13036	14068	0.010	7.91091	25.00000	Averaged
16	Benzo(a)Anthracene	12582	13466	0.010	7.02843	25.00000	Averaged
17	Chrysene	12680	13576	0.010	7.06402	25.00000	Averaged
18	Benzo(b)Fluoranthene	13877	15451	0.010	11.33907	25.00000	Averaged
19	Benzo(k)Fluoranthene	12526	12707	0.010	1.44200	25.00000	Averaged
20	Benzo(a)Pyrene	12599	13461	0.010	6.83818	25.00000	Averaged
21	Indeno(1,2,3-cd)Pyrene	13601	15130	0.010	11.23978	25.00000	Averaged
22	Dibenzo(a,h)Anthracene	11916	12452	0.010	4.49477	25.00000	Averaged
23	Benzo(g,h,i)Perylene	12460	13702	0.010	9.96750	25.00000	Averaged
4	2-Fluorobiphenyl	11847	12506	0.010	5.55590	25.00000	Averaged
6	2-Bromonaphthalene	8060	8563	0.010	6.24262	25.00000	Averaged
11	O-Terphenyl	13172	14191	0.010	7.73838	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145456-3
Lab File ID : CHF3142.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 06/27/14 00:32
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Naphthalene	12915	13637	0.010	5.59350	25.00000	Averaged
3	2-Methylnaphthalene	12793	13538	0.010	5.81870	25.00000	Averaged
5	Acenaphthylene	12695	13398	0.010	5.53942	25.00000	Averaged
7	Acenaphthene	13000	13761	0.010	5.85488	25.00000	Averaged
8	Fluorene	12977	13608	0.010	4.85909	25.00000	Averaged
9	Phenanthrene	12845	13755	0.010	7.08096	25.00000	Averaged
10	Anthracene	11484	12211	0.010	6.33726	25.00000	Averaged
12	Fluoranthene	12744	13577	0.010	6.53798	25.00000	Averaged
13	Pyrene	13036	13916	0.010	6.74632	25.00000	Averaged
16	Benzo(a)Anthracene	12582	13285	0.010	5.59108	25.00000	Averaged
17	Chrysene	12680	13430	0.010	5.91481	25.00000	Averaged
18	Benzo(b)Fluoranthene	13877	14751	0.010	6.29527	25.00000	Averaged
19	Benzo(k)Fluoranthene	12526	12996	0.010	3.74758	25.00000	Averaged
20	Benzo(a)Pyrene	12599	13346	0.010	5.92512	25.00000	Averaged
21	Indeno(1,2,3-cd)Pyrene	13601	14562	0.010	7.06020	25.00000	Averaged
22	Dibenzo(a,h)Anthracene	11916	12652	0.010	6.17923	25.00000	Averaged
23	Benzo(g,h,i)Perylene	12460	13485	0.010	8.22323	25.00000	Averaged
4	2-Fluorobiphenyl	11847	12396	0.010	4.63079	25.00000	Averaged
6	2-Bromonaphthalene	8060	8462	0.010	4.98332	25.00000	Averaged
11	O-Terphenyl	13172	14026	0.010	6.48078	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145456-4
Lab File ID : CHF3164.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 06/27/14 17:11
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Naphthalene	12915	14518	0.010	12.41426	25.00000	Averaged
3	2-Methylnaphthalene	12793	14398	0.010	12.54278	25.00000	Averaged
5	Acenaphthylene	12695	14241	0.010	12.18129	25.00000	Averaged
7	Acenaphthene	13000	14638	0.010	12.59832	25.00000	Averaged
8	Fluorene	12977	14494	0.010	11.69007	25.00000	Averaged
9	Phenanthrene	12845	14647	0.010	14.02716	25.00000	Averaged
10	Anthracene	11484	13003	0.010	13.23216	25.00000	Averaged
12	Fluoranthene	12744	14455	0.010	13.42761	25.00000	Averaged
13	Pyrene	13036	14820	0.010	13.68427	25.00000	Averaged
16	Benzo(a)Anthracene	12582	14186	0.010	12.75539	25.00000	Averaged
17	Chrysene	12680	14290	0.010	12.69335	25.00000	Averaged
18	Benzo(b)Fluoranthene	13877	15152	0.010	9.18835	25.00000	Averaged
19	Benzo(k)Fluoranthene	12526	14441	0.010	15.28520	25.00000	Averaged
20	Benzo(a)Pyrene	12599	14234	0.010	12.97177	25.00000	Averaged
21	Indeno(1,2,3-cd)Pyrene	13601	15281	0.010	12.35261	25.00000	Averaged
22	Dibenzo(a,h)Anthracene	11916	13741	0.010	15.31132	25.00000	Averaged
23	Benzo(g,h,i)Perylene	12460	14385	0.010	15.44833	25.00000	Averaged
4	2-Fluorobiphenyl	11847	13205	0.010	11.46021	25.00000	Averaged
6	2-Bromonaphthalene	8060	8988	0.010	11.51492	25.00000	Averaged
11	O-Terphenyl	13172	14941	0.010	13.43384	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145456-8
Lab File ID : CHF4120.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 06/26/14 05:55
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	C9-C18 Aliphatic	12193	13464	0.010	10.42017	25.00000	Averaged
2	C19-C36 Aliphatic	12277	13816	0.010	12.52928	25.00000	Averaged
3	C-9	11903	13173	0.010	10.66911	30.00000	Averaged
4	C-10	12688	13336	0.010	5.11296	25.00000	Averaged
5	C-12	12048	13379	0.010	11.04061	25.00000	Averaged
7	C-14	12086	13509	0.010	11.77108	25.00000	Averaged
8	C-16	12200	13651	0.010	11.89740	25.00000	Averaged
9	C-18	12235	13735	0.010	12.26331	25.00000	Averaged
10	C-19	12120	13663	0.010	12.72430	25.00000	Averaged
11	C-20	12199	13681	0.010	12.15024	25.00000	Averaged
13	C-22	12294	13804	0.010	12.28423	25.00000	Averaged
14	C-24	12365	13907	0.010	12.46799	25.00000	Averaged
15	C-26	12289	13827	0.010	12.50766	25.00000	Averaged
16	C-28	12343	13907	0.010	12.67293	25.00000	Averaged
18	C-30	12303	13827	0.010	12.38719	25.00000	Averaged
19	C-36	12306	13911	0.010	13.03896	25.00000	Averaged
44	5-alpha androstane	12878	14381	0.010	11.67842	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145456-9
Lab File ID : CHF4142.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 06/27/14 00:32
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	C9-C18 Aliphatic	12193	13456	0.010	10.35968	25.00000	Averaged
2	C19-C36 Aliphatic	12277	13802	0.010	12.41435	25.00000	Averaged
3	C-9	11903	13133	0.010	10.33641	30.00000	Averaged
4	C-10	12688	13322	0.010	5.00199	25.00000	Averaged
5	C-12	12048	13380	0.010	11.04891	25.00000	Averaged
7	C-14	12086	13519	0.010	11.85250	25.00000	Averaged
8	C-16	12200	13654	0.010	11.92412	25.00000	Averaged
9	C-18	12235	13730	0.010	12.22506	25.00000	Averaged
10	C-19	12120	13674	0.010	12.81588	25.00000	Averaged
11	C-20	12199	13672	0.010	12.07777	25.00000	Averaged
13	C-22	12294	13786	0.010	12.14107	25.00000	Averaged
14	C-24	12365	13907	0.010	12.47009	25.00000	Averaged
15	C-26	12289	13803	0.010	12.31319	25.00000	Averaged
16	C-28	12343	13869	0.010	12.36279	25.00000	Averaged
18	C-30	12303	13835	0.010	12.44896	25.00000	Averaged
19	C-36	12306	13868	0.010	12.68809	25.00000	Averaged
44	5-alpha androstane	12878	14378	0.010	11.65008	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG145456-10
Lab File ID : CHF4164.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 06/27/14 17:11
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	C9-C18 Aliphatic	12193	13219	0.010	8.41332	25.00000	Averaged
2	C19-C36 Aliphatic	12277	13534	0.010	10.23284	25.00000	Averaged
3	C-9	11903	13000	0.010	9.22188	30.00000	Averaged
4	C-10	12688	13081	0.010	3.10031	25.00000	Averaged
5	C-12	12048	13135	0.010	9.01710	25.00000	Averaged
7	C-14	12086	13257	0.010	9.69183	25.00000	Averaged
8	C-16	12200	13379	0.010	9.66553	25.00000	Averaged
9	C-18	12235	13462	0.010	10.03049	25.00000	Averaged
10	C-19	12120	13371	0.010	10.31895	25.00000	Averaged
11	C-20	12199	13399	0.010	9.83444	25.00000	Averaged
13	C-22	12294	13509	0.010	9.88724	25.00000	Averaged
14	C-24	12365	13645	0.010	10.34862	25.00000	Averaged
15	C-26	12289	13536	0.010	10.14255	25.00000	Averaged
16	C-28	12343	13610	0.010	10.27054	25.00000	Averaged
18	C-30	12303	13560	0.010	10.21328	25.00000	Averaged
19	C-36	12306	13641	0.010	10.84401	25.00000	Averaged
44	5-alpha androstane	12878	14073	0.010	9.28588	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG146138-1
Lab File ID : CHG1053.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 07/07/14 10:46
Instrument ID: GC12
Column ID: A

	Compound	$\overline{\text{RRF}}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Naphthalene	12915	13621	0.010	5.47240	25.00000	Averaged
3	2-Methylnaphthalene	12793	13506	0.010	5.56872	25.00000	Averaged
5	Acenaphthylene	12695	13315	0.010	4.89001	25.00000	Averaged
7	Acenaphthene	13000	13714	0.010	5.48889	25.00000	Averaged
8	Fluorene	12977	13551	0.010	4.41725	25.00000	Averaged
9	Phenanthrene	12845	13694	0.010	6.60701	25.00000	Averaged
10	Anthracene	11484	11908	0.010	3.70010	25.00000	Averaged
12	Fluoranthene	12744	13500	0.010	5.93502	25.00000	Averaged
13	Pyrene	13036	13838	0.010	6.14999	25.00000	Averaged
16	Benzo(a)Anthracene	12582	13195	0.010	4.87797	25.00000	Averaged
17	Chrysene	12680	13293	0.010	4.83673	25.00000	Averaged
18	Benzo(b)Fluoranthene	13877	15018	0.010	8.22145	25.00000	Averaged
19	Benzo(k)Fluoranthene	12526	12440	0.010	-0.68667	25.00000	Averaged
20	Benzo(a)Pyrene	12599	13156	0.010	4.41823	25.00000	Averaged
21	Indeno(1,2,3-cd)Pyrene	13601	14696	0.010	8.04863	25.00000	Averaged
22	Dibenzo(a,h)Anthracene	11916	12207	0.010	2.44593	25.00000	Averaged
23	Benzo(g,h,i)Perylene	12460	13363	0.010	7.24539	25.00000	Averaged
4	2-Fluorobiphenyl	11847	12361	0.010	4.33958	25.00000	Averaged
6	2-Bromonaphthalene	8060	8435	0.010	4.65640	25.00000	Averaged
11	O-Terphenyl	13172	14023	0.010	6.46294	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG146138-2
Lab File ID : CHG1076.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 07/08/14 04:12
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Naphthalene	12915	14363	0.010	11.21423	25.00000	Averaged
3	2-Methylnaphthalene	12793	14261	0.010	11.47361	25.00000	Averaged
5	Acenaphthylene	12695	14036	0.010	10.56328	25.00000	Averaged
7	Acenaphthene	13000	14498	0.010	11.51895	25.00000	Averaged
8	Fluorene	12977	14349	0.010	10.57228	25.00000	Averaged
9	Phenanthrene	12845	14524	0.010	13.06946	25.00000	Averaged
10	Anthracene	11484	12455	0.010	8.45838	25.00000	Averaged
12	Fluoranthene	12744	14330	0.010	12.44878	25.00000	Averaged
13	Pyrene	13036	14692	0.010	12.69642	25.00000	Averaged
16	Benzo(a)Anthracene	12582	14025	0.010	11.47049	25.00000	Averaged
17	Chrysene	12680	14158	0.010	11.65770	25.00000	Averaged
18	Benzo(b)Fluoranthene	13877	15408	0.010	11.03080	25.00000	Averaged
19	Benzo(k)Fluoranthene	12526	13891	0.010	10.89917	25.00000	Averaged
20	Benzo(a)Pyrene	12599	14062	0.010	11.60521	25.00000	Averaged
21	Indeno(1,2,3-cd)Pyrene	13601	15552	0.010	14.34315	25.00000	Averaged
22	Dibenzo(a,h)Anthracene	11916	13197	0.010	10.74922	25.00000	Averaged
23	Benzo(g,h,i)Perylene	12460	14236	0.010	14.24947	25.00000	Averaged
4	2-Fluorobiphenyl	11847	13071	0.010	10.32788	25.00000	Averaged
6	2-Bromonaphthalene	8060	8938	0.010	10.88713	25.00000	Averaged
11	O-Terphenyl	13172	14865	0.010	12.85305	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG146138-3
Lab File ID : CHG2053.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 07/07/14 10:46
Instrument ID: GC12
Column ID: A

	Compound	$\overline{RRF}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1	C9-C18 Aliphatic	12193	12857	0.010	5.44485	25.00000	Averaged
2	C19-C36 Aliphatic	12277	13017	0.010	6.02727	25.00000	Averaged
3	C-9	11903	12623	0.010	6.05336	30.00000	Averaged
4	C-10	12688	13016	0.010	2.58501	25.00000	Averaged
5	C-12	12048	12762	0.010	5.91992	25.00000	Averaged
7	C-14	12086	12838	0.010	6.21743	25.00000	Averaged
8	C-16	12200	12916	0.010	5.86984	25.00000	Averaged
9	C-18	12235	12989	0.010	6.16396	25.00000	Averaged
10	C-19	12120	12933	0.010	6.70391	25.00000	Averaged
11	C-20	12199	12969	0.010	6.31016	25.00000	Averaged
13	C-22	12294	13067	0.010	6.28654	25.00000	Averaged
14	C-24	12365	13204	0.010	6.78792	25.00000	Averaged
15	C-26	12289	13050	0.010	6.18502	25.00000	Averaged
16	C-28	12343	13074	0.010	5.92191	25.00000	Averaged
18	C-30	12303	13090	0.010	6.39378	25.00000	Averaged
19	C-36	12306	12754	0.010	3.63913	25.00000	Averaged
44	5-alpha androstane	12878	13648	0.010	5.98400	25.00000	Averaged

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG146138-4
Lab File ID : CHG2076.d
Initial Calibration Date(s): 05/06/14 19:22 05/06/14 22:23

SDG: WE53-7
Analytical Date: 07/08/14 04:12
Instrument ID: GC12
Column ID: A

Compound	$\overline{\text{RRF}}$/Amount	RF50	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1 C9-C18 Aliphatic	12193	13017	0.010	6.75262	25.00000	Averaged
2 C19-C36 Aliphatic	12277	13229	0.010	7.75210	25.00000	Averaged
3 C-9	11903	12787	0.010	7.43053	30.00000	Averaged
4 C-10	12688	12939	0.010	1.98081	25.00000	Averaged
5 C-12	12048	12969	0.010	7.64414	25.00000	Averaged
7 C-14	12086	13037	0.010	7.87023	25.00000	Averaged
8 C-16	12200	13147	0.010	7.76858	25.00000	Averaged
9 C-18	12235	13219	0.010	8.04679	25.00000	Averaged
10 C-19	12120	13164	0.010	8.60763	25.00000	Averaged
11 C-20	12199	13163	0.010	7.90097	25.00000	Averaged
13 C-22	12294	13270	0.010	7.94397	25.00000	Averaged
14 C-24	12365	13403	0.010	8.39229	25.00000	Averaged
15 C-26	12289	13311	0.010	8.31383	25.00000	Averaged
16 C-28	12343	13374	0.010	8.35589	25.00000	Averaged
18 C-30	12303	13344	0.010	8.45910	25.00000	Averaged
19 C-36	12306	12805	0.010	4.05388	25.00000	Averaged
44 5-alpha androstane	12878	13725	0.010	6.57845	25.00000	Averaged

*** = Compound out of QC criteria**

FORM 8
DRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NCTAMSLANT CUTLER CTO WE53 FTA SDG No.: WE53-7

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 05/06/14 05/06/14

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 9.01 S2 : 10.39

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		WG142382-3	05/06/14	1922	9.01	10.39
02		WG142382-5	05/06/14	2007	9.01	10.39
03		WG142382-4	05/06/14	2052	9.01	10.39
04		WG142382-2	05/06/14	2138	9.01	10.39
05		WG142382-1	05/06/14	2223	9.01	10.39
06		WG142382-6	05/06/14	2308		
07		WG145269-1	06/23/14	1245	8.96	10.34
08	WG145094-BLANK	WG145094-1	06/23/14	1331	8.96	10.34
09	WG145094-LCS	WG145094-2	06/23/14	1416	8.95	10.33
10	WG145094-LCSD	WG145094-3	06/23/14	1502	8.95	10.33
11	FTA-MW-9-061714	SH4401-2	06/23/14	1555	8.96	10.34
12	FTA-MW-10-061714	SH4401-4	06/23/14	1640	8.95	10.33
13	FTA-MW-11-061714	SH4401-6	06/23/14	1726	8.95	10.33
14	FTA-MW-12-061714	SH4401-8	06/23/14	1811	8.95	10.33
15	FTA-MW-5-061814	SH4401-10	06/23/14	1856	8.96	10.34
16	FTA-MW-203-061814	SH4401-12	06/23/14	1941	8.95	10.33
17	FTA-GW-DUP01-061814	SH4401-14	06/23/14	2027	8.96	10.34
18	FTA-MW-218-061814	SH4401-16	06/23/14	2112	8.96	10.34
19	FTA-MW-206-061814	SH4401-18	06/23/14	2157	8.96	10.34
20	FTA-MW-14-061714	SH4401-20	06/23/14	2243	8.96	10.34

QC LIMITS

S1 = 2-Fluorobiphenyl (+/- 0.15 MINUTES)
S2 = 2-Bromonaphthalene (+/- 0.15 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM 8
DRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NCTAMSLANT CUTLER CTO WE53 FTA SDG No.: WE53-7

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 05/06/14 05/06/14

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 9.01 S2 : 10.39

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01		WG145269-2	06/24/14	0529	8.97	10.35
02		WG145456-2	06/26/14	0555	8.96	10.34
03	WG145314-BLANK	WG145314-1	06/26/14	1830	8.94	10.32
04	WG145314-LCS	WG145314-2	06/26/14	1916	8.94	10.32
05	WG145314-LCSD	WG145314-3	06/26/14	2001	8.94	10.32
06	FTA-MW-210-061814MS	WG145314-4	06/26/14	2046	8.94	10.32
07	FTA-MW-210-061814MS	WG145314-5	06/26/14	2132	8.95	10.33
08	FTA-SW-03-061914MS	WG145314-6	06/26/14	2217	8.95	10.33
09	FTA-SW-03-061914MSD	WG145314-7	06/26/14	2302	8.95	10.33
10		WG145456-3	06/27/14	0032	8.95	10.33
11	FTA-MW-208-061814	SH4521-2	06/27/14	0548	8.97	10.35
12	FTA-MW-1-061814	SH4521-4	06/27/14	0634	8.97	10.36
13	FTA-GW-DUP02-061814	SH4521-6	06/27/14	0719	8.97	10.35
14	FTA-MW-210-061814	SH4521-8	06/27/14	0804	8.97	10.35
15	FTA-SW-01-061914	SH4521-10	06/27/14	0850	8.95	10.33
16	FTA-SW-02-061914	SH4521-12	06/27/14	0935	8.94	10.32
17	FTA-SW-03-061914	SH4521-14	06/27/14	1020	8.94	10.33
18	FTA-SW-06-061914	SH4521-16	06/27/14	1105	8.95	10.33
19	FTA-SW-07-061914	SH4521-18	06/27/14	1151	8.94	10.32
20	FTA-SW-08-061914	SH4521-20	06/27/14	1236	8.94	10.32

QC LIMITS
S1 = 2-Fluorobiphenyl (+/- 0.15 MINUTES)
S2 = 2-Bromonaphthalene (+/- 0.15 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services A0000674

FORM 8
DRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NCTAMSLANT CUTLER CTO WE53 FTA SDG No.: WE53-7

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 05/06/14 05/06/14

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 9.01 S2 : 10.39

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	S2 RT #
01	FTA-SW-DUP01-061914	SH4521-22	06/27/14	1321	8.93	10.32
02	FTA-SD-RB01-062014	SH4521-24	06/27/14	1406	8.94	10.32
03		WG145456-4	06/27/14	1711	8.93	10.31
04		WG146138-1	07/07/14	1046	8.94	10.32
05	WG145668-BLANK	WG145668-1	07/07/14	1217	8.93	10.31
06	WG145668-LCS	WG145668-2	07/07/14	1302	8.93	10.31
07	WG145668-LCSD	WG145668-3	07/07/14	1347	8.93	10.31
08	FTA-SW-07-061914	SH4521-18RE	07/07/14	1519	8.93	10.31
09		WG146138-2	07/08/14	0412	8.93	10.31
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
S1 = 2-Fluorobiphenyl (+/- 0.15 MINUTES)
S2 = 2-Bromonaphthalene (+/- 0.15 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services A0000675

FORM 8
DRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NCTAMSLANT CUTLER CTO WE53 FTA SDG No.: WE53-7

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 05/06/14 05/06/14

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S3 : 15.28

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT	#	RT	#
01		WG142382-3	05/06/14	1922	15.27			
02		WG142382-5	05/06/14	2007	15.28			
03		WG142382-4	05/06/14	2052	15.27			
04		WG142382-2	05/06/14	2138	15.27			
05		WG142382-1	05/06/14	2223	15.27			
06		WG142382-6	05/06/14	2308				
07		WG145269-1	06/23/14	1245	15.22			
08	WG145094-BLANK	WG145094-1	06/23/14	1331	15.21			
09	WG145094-LCS	WG145094-2	06/23/14	1416	15.21			
10	WG145094-LCSD	WG145094-3	06/23/14	1502	15.21			
11	FTA-MW-9-061714	SH4401-2	06/23/14	1555	15.22			
12	FTA-MW-10-061714	SH4401-4	06/23/14	1640	15.21			
13	FTA-MW-11-061714	SH4401-6	06/23/14	1726	15.20			
14	FTA-MW-12-061714	SH4401-8	06/23/14	1811	15.21			
15	FTA-MW-5-061814	SH4401-10	06/23/14	1856	15.21			
16	FTA-MW-203-061814	SH4401-12	06/23/14	1941	15.21			
17	FTA-GW-DUP01-061814	SH4401-14	06/23/14	2027	15.21			
18	FTA-MW-218-061814	SH4401-16	06/23/14	2112	15.21			
19	FTA-MW-206-061814	SH4401-18	06/23/14	2157	15.21			
20	FTA-MW-14-061714	SH4401-20	06/23/14	2243	15.21			

QC LIMITS
S3 = O-Terphenyl (+/- 0.15 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DRO

Katahdin Analytical Services A0000676

FORM 8
DRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NCTAMSLANT CUTLER CTO WE53 FTA SDG No.: WE53-7

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 05/06/14 05/06/14

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S3 : 15.28

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT	#	RT	#
01		WG145269-2	06/24/14	0529	15.22			
02		WG145456-2	06/26/14	0555	15.21			
03	WG145314-BLANK	WG145314-1	06/26/14	1830	15.19			
04	WG145314-LCS	WG145314-2	06/26/14	1916	15.19			
05	WG145314-LCSD	WG145314-3	06/26/14	2001	15.20			
06	FTA-MW-210-061814MS	WG145314-4	06/26/14	2046	15.20			
07	FTA-MW-210-061814MS	WG145314-5	06/26/14	2132	15.20			
08	FTA-SW-03-061914MS	WG145314-6	06/26/14	2217	15.21			
09	FTA-SW-03-061914MSD	WG145314-7	06/26/14	2302	15.20			
10		WG145456-3	06/27/14	0032	15.21			
11	FTA-MW-208-061814	SH4521-2	06/27/14	0548	15.23			
12	FTA-MW-1-061814	SH4521-4	06/27/14	0634	15.23			
13	FTA-GW-DUP02-061814	SH4521-6	06/27/14	0719	15.23			
14	FTA-MW-210-061814	SH4521-8	06/27/14	0804	15.21			
15	FTA-SW-01-061914	SH4521-10	06/27/14	0850	15.20			
16	FTA-SW-02-061914	SH4521-12	06/27/14	0935	15.19			
17	FTA-SW-03-061914	SH4521-14	06/27/14	1020	15.20			
18	FTA-SW-06-061914	SH4521-16	06/27/14	1105	15.20			
19	FTA-SW-07-061914	SH4521-18	06/27/14	1151	15.20			
20	FTA-SW-08-061914	SH4521-20	06/27/14	1236	15.20			

QC LIMITS
S3 = O-Terphenyl (+/- 0.15 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services A0000677

FORM 8
DRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NCTAMSLANT CUTLER CTO WE53 FTA SDG No.: WE53-7

GC Column: RTX-5 ID: 0.53 (mm) Init. Calib. Date(s): 05/06/14 05/06/14

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S3 : 15.28

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S3 RT	#	RT	#
01	FTA-SW-DUP01-061914	SH4521-22	06/27/14	1321	15.19			
02	FTA-SD-RB01-062014	SH4521-24	06/27/14	1406	15.19			
03		WG145456-4	06/27/14	1711	15.19			
04		WG146138-1	07/07/14	1046	15.19			
05	WG145668-BLANK	WG145668-1	07/07/14	1217	15.18			
06	WG145668-LCS	WG145668-2	07/07/14	1302	15.18			
07	WG145668-LCSD	WG145668-3	07/07/14	1347	15.18			
08	FTA-SW-07-061914	SH4521-18RE	07/07/14	1519	15.18			
09		WG146138-2	07/08/14	0412	15.18			
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

QC LIMITS
S3 = O-Terphenyl (+/- 0.15 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DRO

Katahdin Analytical Services A0000678

FORM 8
DRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NCTAMSLANT CUTLER CTO WE53 FTA SDG No.: WE53-7

GC Column: RTX-1 ID: 0.53 (mm)Init. Calib. Date(s): 05/06/14 05/06/14

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 16.83

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		WG142382-9	05/06/14	1922	16.83	
02		WG142382-7	05/06/14	2007	16.84	
03		WG142382-8	05/06/14	2052	16.84	
04		WG142382-10	05/06/14	2138	16.83	
05		WG142382-11	05/06/14	2223	16.83	
06		WG142382-12	05/06/14	2308		
07		WG145269-9	06/23/14	1108	16.78	
08	WG145094-BLANK	WG145094-1	06/23/14	1331	16.77	
09	WG145094-LCS	WG145094-2	06/23/14	1416	16.77	
10	WG145094-LCSD	WG145094-3	06/23/14	1502	16.77	
11	FTA-MW-9-061714	SH4401-2	06/23/14	1555	16.77	
12	FTA-MW-10-061714	SH4401-4	06/23/14	1640	16.77	
13	FTA-MW-11-061714	SH4401-6	06/23/14	1726	16.77	
14	FTA-MW-12-061714	SH4401-8	06/23/14	1811	16.76	
15	FTA-MW-5-061814	SH4401-10	06/23/14	1856	16.77	
16	FTA-MW-203-061814	SH4401-12	06/23/14	1941	16.77	
17	FTA-GW-DUP01-061814	SH4401-14	06/23/14	2027	16.77	
18	FTA-MW-218-061814	SH4401-16	06/23/14	2112	16.77	
19	FTA-MW-206-061814	SH4401-18	06/23/14	2157	16.77	
20	FTA-MW-14-061714	SH4401-20	06/23/14	2243	16.77	

QC LIMITS
S1 = 5-alpha androstane (+/- 0.34 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services A0000679

FORM 8
DRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NCTAMSLANT CUTLER CTO WE53 FTA SDG No.: WE53-7

GC Column: RTX-1 ID: 0.53 (mm) Init. Calib. Date(s): 05/06/14 05/06/14

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 16.83

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01		WG145269-10	06/24/14	0529	16.78	
02		WG145456-8	06/26/14	0555	16.77	
03	WG145314-BLANK	WG145314-1	06/26/14	1830	16.75	
04	WG145314-LCS	WG145314-2	06/26/14	1916	16.75	
05	WG145314-LCSD	WG145314-3	06/26/14	2001	16.76	
06	FTA-MW-210-061814MS	WG145314-4	06/26/14	2046	16.76	
07	FTA-MW-210-061814MS	WG145314-5	06/26/14	2132	16.76	
08	FTA-SW-03-061914MS	WG145314-6	06/26/14	2217	16.76	
09	FTA-SW-03-061914MSD	WG145314-7	06/26/14	2302	16.76	
10		WG145456-9	06/27/14	0032	16.76	
11	FTA-MW-208-061814	SH4521-2	06/27/14	0548	16.77	
12	FTA-MW-1-061814	SH4521-4	06/27/14	0634	16.77	
13	FTA-GW-DUP02-061814	SH4521-6	06/27/14	0719	16.77	
14	FTA-MW-210-061814	SH4521-8	06/27/14	0804	16.76	
15	FTA-SW-01-061914	SH4521-10	06/27/14	0850	16.76	
16	FTA-SW-02-061914	SH4521-12	06/27/14	0935	16.75	
17	FTA-SW-03-061914	SH4521-14	06/27/14	1020	16.76	
18	FTA-SW-06-061914	SH4521-16	06/27/14	1105	16.76	
19	FTA-SW-07-061914	SH4521-18	06/27/14	1151	16.75	
20	FTA-SW-08-061914	SH4521-20	06/27/14	1236	16.75	

QC LIMITS
S1 = 5-alpha androstane (+/- 0.34 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

Katahdin Analytical Services A0000680

FORM 8
DRO ANALYTICAL SEQUENCE

Lab Name: KATAHDIN ANALYTICAL SERVICES Lab Code: KAS

Project: NCTAMSLANT CUTLER CTO WE53 FTA SDG No.: WE53-7

GC Column: RTX-1 ID: 0.53 (mm)Init. Calib. Date(s): 05/06/14 05/06/14

Instrument ID: GC12

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

MEAN SURROGATE RT FROM INITIAL CALIBRATION
S1 : 16.83

	CLIENT SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	S1 RT #	RT #
01	FTA-SW-DUP01-061914	SH4521-22	06/27/14	1321	16.75	
02	FTA-SD-RB01-062014	SH4521-24	06/27/14	1406	16.75	
03		WG145456-10	06/27/14	1711	16.75	
04		WG146138-3	07/07/14	1046	16.75	
05	WG145668-BLANK	WG145668-1	07/07/14	1217	16.74	
06	WG145668-LCS	WG145668-2	07/07/14	1302	16.74	
07	WG145668-LCSD	WG145668-3	07/07/14	1347	16.74	
08	FTA-SW-07-061914	SH4521-18RE	07/07/14	1519	16.74	
09		WG146138-4	07/08/14	0412	16.74	
10						
11						
12						
13						
14						
15						
16						
17						
18						
19						
20						

QC LIMITS
S1 = 5-alpha androstane (+/- 0.34 MINUTES)

Column used to flag retention time values with an asterisk.
* Values outside of QC limits.

FORM VIII DRO

Katahdin Analytical Services A0000681

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-1
Client ID: FTA-GW-TB01-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10163.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		94.9	%					
2,5-Dibromotoluene (PID)		77.8	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-2
Client ID: FTA-MW-9-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10164.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		105.	%					
2,5-Dibromotoluene (PID)		84.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-4
Client ID: FTA-MW-10-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10165.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		96.2	%					
2,5-Dibromotoluene (PID)		77.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-6
Client ID: FTA-MW-11-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10166.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		110.	%					
2,5-Dibromotoluene (PID)		87.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-8
Client ID: FTA-MW-12-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10167.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		113.	%					
2,5-Dibromotoluene (PID)		90.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-10
Client ID: FTA-MW-5-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10168.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		114.	%					
2,5-Dibromotoluene (PID)		88.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-12
Client ID: FTA-MW-203-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10169.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		111.	%					
2,5-Dibromotoluene (PID)		88.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-14
Client ID: FTA-GW-DUP01-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10170.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		113.	%					
2,5-Dibromotoluene (PID)		88.7	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-16
Client ID: FTA-MW-218-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10171.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		118.	%					
2,5-Dibromotoluene (PID)		92.8	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-18
Client ID: FTA-MW-206-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10172.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 12-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 12-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		115.	%					
2,5-Dibromotoluene (PID)		91.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-20
Client ID: FTA-MW-14-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10174.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 12-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 12-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		111.	%					
2,5-Dibromotoluene (PID)		88.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-1
Client ID: FTA-GW-TB02-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10175.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 12-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 12-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		109.	%					
2,5-Dibromotoluene (PID)		87.0	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-2
Client ID: FTA-MW-208-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10176.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 12-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 12-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		113.	%					
2,5-Dibromotoluene (PID)		90.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-4
Client ID: FTA-MW-1-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10177.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 12-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 12-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		111.	%					
2,5-Dibromotoluene (PID)		88.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-6
Client ID: FTA-GW-DUP02-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10178.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 12-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 12-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		115.	%					
2,5-Dibromotoluene (PID)		91.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-8
Client ID: FTA-MW-210-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: 2HG10179.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 12-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 12-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		114.	%					
2,5-Dibromotoluene (PID)		91.2	%					

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Report of Analytical Results

Client:
Lab ID: WG146189-1
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: 2HG10162.D

Sample Date:
Received Date:
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Unadjusted C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
Unadjusted C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C5-C8 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C12 Aliphatics	U	75	ug/L	1	100	100	50.	75.
C9-C10 Aromatics	U	75	ug/L	1	100	100	50.	75.
2,5-Dibromotoluene (FID)		93.8	%					
2,5-Dibromotoluene (PID)		76.5	%					

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Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NCTAMSLANT Cutler CTO WE53 **Matrix:** AQ
Lab Code: KAS **SDG:** WE53-7

Client Sample ID	Lab Sample ID	Col. ID	DBT-FID	#	DBT-PID	#
FTA-GW-TB01-061714	SH4401-1	B	94.9		77.8	
FTA-MW-5-061814	SH4401-10	B	114.		88.8	
FTA-MW-203-061814	SH4401-12	B	111.		88.5	
FTA-GW-DUP01-061814	SH4401-14	B	113.		88.7	
FTA-MW-218-061814	SH4401-16	B	118.		92.8	
FTA-MW-206-061814	SH4401-18	B	115.		91.6	
FTA-MW-9-061714	SH4401-2	B	105.		84.6	
FTA-MW-14-061714	SH4401-20	B	111.		88.2	
FTA-MW-10-061714	SH4401-4	B	96.2		77.2	
FTA-MW-11-061714	SH4401-6	B	110.		87.5	
FTA-MW-12-061714	SH4401-8	B	113.		90.2	
FTA-GW-TB02-061814	SH4521-1	B	109.		87.0	
FTA-MW-208-061814	SH4521-2	B	113.		90.1	
FTA-MW-1-061814	SH4521-4	B	111.		88.5	
FTA-GW-DUP02-061814	SH4521-6	B	115.		91.4	
FTA-MW-210-061814	SH4521-8	B	114.		91.2	
Method Blank Sample	WG146189-1	B	93.8		76.5	
Laboratory Control S	WG146189-2	B	80.9		67.0	*
Laboratory Control S	WG146189-3	B	89.1		72.9	
Matrix Spike	WG146189-4	B	90.6		74.2	
Matrix Spike Duplica	WG146189-5	B	91.5		74.7	

		QC Limits
DBT-FID	2,5-DIBROMOTOLUENE (FID)	70-130
DBT-PID	2,5-DIBROMOTOLUENE (PID)	70-130

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG146189-2
LCSD ID: WG146189-3
Project:
SDG: WE53-7
Report Date: 15-JUL-14
LCS File ID: 2HG10157.D

Received Date:
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA DEP VPH 04-1.1
Lab Prep Batch: WG146189
LCSD File ID: 2HG10158.D

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
Unadjusted C5-C8 Aliphatics	300.	253.	84.3	277.	92.3	ug/L	9	25	70-130
Unadjusted C9-C12 Aliphatics	200.	222.	111.	228.	114.	ug/L	3	25	70-130
C5-C8 Aliphatics	300.	253.	84.3	277.	92.3	ug/L	9	25	70-130
C9-C12 Aliphatics	200.	222.	111.	228.	114.	ug/L	3	25	70-130
C9-C10 Aromatics	100.	102.	102.	103.	103.	ug/L	1	25	70-130
2,5-Dibromotoluene (FID)			80.9		89.1				70-130
2,5-Dibromotoluene (PID)			67.0*		72.9				70-130

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MS/MSD Recovery Report

MS ID: WG146189-4
MSD ID: WG146189-5
Sample ID: SH4521-8
Client ID: FTA-MW-210-061814
Project:
SDG: WE53-7
MS File ID: 2HG10159.D

Received Date:
Extract Date: 11-JUL-14
Extracted By: AAB
Extraction Method: MA-VPH
Lab Prep Batch: WG146189
Report Date: 15-JUL-14
MSD File ID: 2HG10160.D

Analysis Date: 11-JUL-14
Analyst: AAB
Analysis Method: MA DEP VPH 04-1.1
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Unadjusted C5-C8 Aliphatics	300.	300.	ug/L	U75	254	269	84.7	89.7	5	50	70-130
Unadjusted C9-C12 Aliphatics	200.	200.	ug/L	U75	195	233	97.5	116.	18	50	70-130
C5-C8 Aliphatics	300.	300.	ug/L	U75	254	269	84.7	89.7	5	50	70-130
C9-C12 Aliphatics	200.	200.	ug/L	U75	195	233	97.5	116	18	50	70-130
C9-C10 Aromatics	100.	100.	ug/L	U75	100	103	100.	103.	3	50	70-130
2,5-Dibromotoluene (FID)							90.6	91.5			70-130
2,5-Dibromotoluene (PID)							74.2	74.7			70-130

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Form 4
Method Blank Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : 2HG10162.D
Instrument ID : GC02

SDG : WE53-7
Lab Sample ID : WG146189-1
Date Analyzed : 11-JUL-14
Time Analyzed : 13:58
Date Extracted : 11-JUL-14

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG146189-2	2HG10157.	07/11/14	09:35
Laboratory Control S	WG146189-3	2HG10158.	07/11/14	10:28
Matrix Spike	WG146189-4	2HG10159.	07/11/14	11:20
Matrix Spike Duplica	WG146189-5	2HG10160.	07/11/14	12:13
FTA-GW-TB01-061714	SH4401-1	2HG10163.	07/11/14	16:12
FTA-MW-9-061714	SH4401-2	2HG10164.	07/11/14	17:05
FTA-MW-10-061714	SH4401-4	2HG10165.	07/11/14	17:57
FTA-MW-11-061714	SH4401-6	2HG10166.	07/11/14	18:51
FTA-MW-12-061714	SH4401-8	2HG10167.	07/11/14	19:45
FTA-MW-5-061814	SH4401-10	2HG10168.	07/11/14	20:39
FTA-MW-203-061814	SH4401-12	2HG10169.	07/11/14	21:33
FTA-GW-DUP01-061814	SH4401-14	2HG10170.	07/11/14	22:27
FTA-MW-218-061814	SH4401-16	2HG10171.	07/11/14	23:22
FTA-MW-206-061814	SH4401-18	2HG10172.	07/12/14	00:16
FTA-MW-14-061714	SH4401-20	2HG10174.	07/12/14	02:05
FTA-GW-TB02-061814	SH4521-1	2HG10175.	07/12/14	02:59
FTA-MW-208-061814	SH4521-2	2HG10176.	07/12/14	03:54
FTA-MW-1-061814	SH4521-4	2HG10177.	07/12/14	04:49
FTA-GW-DUP02-061814	SH4521-6	2HG10178.	07/12/14	05:43
FTA-MW-210-061814	SH4521-8	2HG10179.	07/12/14	08:28

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** WE53-7
Project : NCTAMSLANT Cutler CTO WE53 **Instrument ID:** GC02
Lab File IDs : 08-MAY-14 18:08
09-MAY-14 04:57

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv					Max	
	1.0000	5.0000	10.0000	50.0000	100.0000	300.0000	New	b	m1	m2	%RSD	%RSD	
C9-C10 Aromatic	3480	3402	3294	4492	4399	3944	AVG		3835		13.63726	25.00000	M
Methyl tert-butylether	1628	1705	1638	2232	2198	1698	AVG		1850		15.39838	25.00000	O
Benzene	3452	4190	4043	5415	5319	4906	AVG		4554		17.17725	25.00000	O
Toluene	3184	3879	3712	4955	4891	4529	AVG		4191		16.96510	25.00000	O
Ethylbenzene	2745	3351	3285	4415	4358	4009	AVG		3694		18.14513	25.00000	O
m+p-Xylene	3275	3913	3814	5014	4849	4342	AVG		4201		15.75720	25.00000	O
o-Xylene	2780	3350	3218	4359	4277	3861	AVG		3641		17.25243	25.00000	O
1,2,4-trimethylbenzene	3480	3402	3294	4492	4399	3944	AVG		3835		13.63726	25.00000	O
Naphthalene	2935	3141	2885	3777	3556	2507	AVG		3133		14.88265	25.00000	O
2,5-Dibromotoluene (PID)	10587	17271	30016	162537	345305	+++++	LNR	0.09552	3418		0.99819	0.99000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** WE53-7

Project : NCTAMSLANT Cutler CTO WE53 **Instrument ID:** GC02

Lab File IDs : 08-MAY-14 18:08
09-MAY-14 00:26

	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6	Crv					Max	
	1.0000	5.0000	10.0000	50.0000	100.0000	300.0000	New	b	m1	m2	%RSD	%RSD	
C5-C8 Aliphatic	9119	55452	116841	751536	1534470	4400902	LNR	0.12774	4916		0.99961	0.99000	M
C9-C12 Aliphatic	4387	3854	4151	4868	4743	4050	AVG		4342		9.20735	25.00000	M
n-Pentane	2768	15860	33983	230249	459534	1333267	LNR	0.22051	4467		0.99969	0.99000	O
2-Methylpentane	2920	19589	40591	259354	521995	1512467	LNR	0.08225	5064		0.99975	0.99000	O
Methyl tert-butylether	1997	2187	2265	3034	2981	2333	AVG		2466		17.60463	25.00000	O
2,2,4-Trimethylpentane	3431	20003	42267	261933	552941	1555168	LNR	-0.12798	5217		0.99938	0.99000	O
Benzene	3828	4960	4950	6517	6429	5999	AVG		5447		19.28681	25.00000	O
Toluene	4292	5076	4917	6627	6586	6170	AVG		5611		17.46648	25.00000	O
n-Nonane	3934	3979	4249	4931	4952	4507	AVG		4425		10.16218	25.00000	O
n-Decane	4416	3560	3904	4503	4259	3267	AVG		3985		12.46033	25.00000	O
Ethylbenzene	4317	5075	4935	6664	6631	6145	AVG		5628		17.50057	25.00000	O
m+p-Xylene	4520	5110	5006	6743	6718	6295	AVG		5732		16.90754	25.00000	O
o-Xylene	4519	5194	5002	6812	6713	6237	AVG		5746		16.82652	25.00000	O
1,2,4-trimethylbenzene	5409	5137	4920	6695	6624	6049	AVG		5806		13.13949	25.00000	O
n-Butylcyclohexane	4357	4149	4399	5233	5227	4833	AVG		4700		9.94037	25.00000	O
Naphthalene	3857	3958	3534	4438	4233	3033	AVG		3842		13.11771	25.00000	O
2,5-Dibromotoluene (FID)	+++++	2119	1832	1937	2071	1541	AVG		1900		12.12549	25.00000	

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 **SDG:** WE53-7
Lab ID : WG146189-6 **Analytical Date:** 07/11/14 08:43
Lab File ID : 2HG10156.D **Instrument ID:** GC02
Initial Calibration Date(s): 05/08/14 18:08 05/09/14 04:57 **Column ID:** A

	Compound	$\overline{RRF}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Methyl tert-butylether	1850	2061	2061	0.100	11.41364	25.00000	Averaged
3	Benzene	4554	5064	5064	0.100	11.18043	25.00000	Averaged
4	Toluene	4191	4686	4686	0.100	11.78832	25.00000	Averaged
5	Ethylbenzene	3694	4188	4188	0.100	13.38095	25.00000	Averaged
6	m+p-Xylene	4201	4758	4758	0.100	13.26515	25.00000	Averaged
7	o-Xylene	3641	4142	4142	0.100	13.77209	25.00000	Averaged
8	1,2,4-trimethylbenzene	3835	4250	4250	0.100	10.82441	25.00000	Averaged
10	Naphthalene	3133	3216	3216	0.100	2.62678	25.00000	Averaged
11	2,5-Dibromotoluene (PID)	50.00000	41.71312	2845	0.100	-16.57377	25.00000	Linear

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 **SDG:** WE53-7
Lab ID : WG146189-6 **Analytical Date:** 07/11/14 08:43
Lab File ID : 2HG10156.D **Instrument ID:** GC02
Initial Calibration Date(s): 05/08/14 18:08 05/09/14 04:57 **Column ID:** B

	Compound	$\overline{RRF}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
5	n-Pentane	50.00000	52.53295	4672	0.100	5.06590	25.00000	Linear	
6	2-Methylpentane	50.00000	54.73136	5535	0.100	9.46272	25.00000	Linear	
7	Methyl tert-butylether	2466	3256	3256	0.100	32.03057	25.00000	Averaged	*
8	2,2,4-Trimethylpentane	50.00000	57.57060	6020	0.100	15.14121	25.00000	Linear	
9	Benzene	5447	6967	6967	0.100	27.89140	25.00000	Averaged	*
11	Toluene	5611	7142	7142	0.100	27.27785	25.00000	Averaged	*
12	n-Nonane	4425	5936	5936	0.100	34.14023	30.00000	Averaged	*
13	n-Decane	3985	5408	5408	0.100	35.70395	25.00000	Averaged	*
14	Ethylbenzene	5628	7208	7208	0.100	28.07492	25.00000	Averaged	*
15	m+p-Xylene	5732	7289	7289	0.100	27.17033	25.00000	Averaged	*
16	o-Xylene	5746	7350	7350	0.100	27.90421	25.00000	Averaged	*
18	1,2,4-trimethylbenzene	5806	7241	7241	0.100	24.72659	25.00000	Averaged	
19	n-Butylcyclohexane	4700	6304	6304	0.100	34.12869	25.00000	Averaged	*
20	Naphthalene	3842	4381	4381	0.100	14.02292	25.00000	Averaged	
21	2,5-Dibromotoluene (FID)	1900	1935	1935	0.100	1.83853	25.00000	Averaged	

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 **SDG:** WE53-7
Lab ID : WG146189-7 **Analytical Date:** 07/12/14 01:11
Lab File ID : 2HG10173.D **Instrument ID:** GC02
Initial Calibration Date(s): 05/08/14 18:08 05/09/14 04:57 **Column ID:** A

	Compound	$\overline{RRF}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Methyl tert-butylether	1850	2092	2092	0.100	13.08841	25.00000	Averaged
3	Benzene	4554	4897	4897	0.100	7.51888	25.00000	Averaged
4	Toluene	4191	4500	4500	0.100	7.36594	25.00000	Averaged
5	Ethylbenzene	3694	4008	4008	0.100	8.50123	25.00000	Averaged
6	m+p-Xylene	4201	4554	4554	0.100	8.40951	25.00000	Averaged
7	o-Xylene	3641	3970	3970	0.100	9.05811	25.00000	Averaged
8	1,2,4-trimethylbenzene	3835	4082	4082	0.100	6.44267	25.00000	Averaged
10	Naphthalene	3133	3445	3445	0.100	9.95667	25.00000	Averaged
11	2,5-Dibromotoluene (PID)	50.00000	43.16290	2944	0.100	-13.67421	25.00000	Linear

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 **SDG:** WE53-7
Lab ID : WG146189-7 **Analytical Date:** 07/12/14 01:11
Lab File ID : 2HG10173.D **Instrument ID:** GC02
Initial Calibration Date(s): 05/08/14 18:08 05/09/14 04:57 **Column ID:** B

	Compound	$\overline{RRF}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
5	n-Pentane	50.00000	50.03104	4449	0.100	0.06208	25.00000	Linear	
6	2-Methylpentane	50.00000	52.24776	5283	0.100	4.49552	25.00000	Linear	
7	Methyl tert-butylether	2466	3357	3357	0.100	36.10961	25.00000	Averaged	*
8	2,2,4-Trimethylpentane	50.00000	55.63075	5818	0.100	11.26150	25.00000	Linear	
9	Benzene	5447	6906	6906	0.100	26.78221	25.00000	Averaged	*
11	Toluene	5611	7051	7051	0.100	25.65759	25.00000	Averaged	*
12	n-Nonane	4425	5641	5641	0.100	27.47078	30.00000	Averaged	
13	n-Decane	3985	4847	4847	0.100	21.63622	25.00000	Averaged	
14	Ethylbenzene	5628	7069	7069	0.100	25.60324	25.00000	Averaged	*
15	m+p-Xylene	5732	7142	7142	0.100	24.60489	25.00000	Averaged	
16	o-Xylene	5746	7253	7253	0.100	26.22031	25.00000	Averaged	*
18	1,2,4-trimethylbenzene	5806	7099	7099	0.100	22.27900	25.00000	Averaged	
19	n-Butylcyclohexane	4700	6024	6024	0.100	28.17073	25.00000	Averaged	*
20	Naphthalene	3842	4725	4725	0.100	22.97542	25.00000	Averaged	
21	2,5-Dibromotoluene (FID)	1900	2041	2041	0.100	7.41530	25.00000	Averaged	

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 **SDG:** WE53-7
Lab ID : WG146189-8 **Analytical Date:** 07/12/14 12:01
Lab File ID : 2HG10183.D **Instrument ID:** GC02
Initial Calibration Date(s): 05/08/14 18:08 05/09/14 04:57 **Column ID:** A

	Compound	$\overline{RRF}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
2	Methyl tert-butylether	1850	1912	1912	0.100	3.33713	25.00000	Averaged
3	Benzene	4554	4860	4860	0.100	6.71043	25.00000	Averaged
4	Toluene	4191	4517	4517	0.100	7.76723	25.00000	Averaged
5	Ethylbenzene	3694	4029	4029	0.100	9.07032	25.00000	Averaged
6	m+p-Xylene	4201	4576	4576	0.100	8.92843	25.00000	Averaged
7	o-Xylene	3641	3971	3971	0.100	9.07624	25.00000	Averaged
8	1,2,4-trimethylbenzene	3835	4072	4072	0.100	6.18765	25.00000	Averaged
10	Naphthalene	3133	3115	3115	0.100	-0.60286	25.00000	Averaged
11	2,5-Dibromotoluene (PID)	50.00000	40.48775	2761	0.100	-19.02449	25.00000	Linear

*** = Compound out of QC criteria**

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 **SDG:** WE53-7
Lab ID : WG146189-8 **Analytical Date:** 07/12/14 12:01
Lab File ID : 2HG10183.D **Instrument ID:** GC02
Initial Calibration Date(s): 05/08/14 18:08 05/09/14 04:57 **Column ID:** B

	Compound	$\overline{RRF}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
5	n-Pentane	50.00000	50.23812	4467	0.100	0.47623	25.00000	Linear
6	2-Methylpentane	50.00000	52.82359	5342	0.100	5.64718	25.00000	Linear
7	Methyl tert-butylether	2466	3070	3070	0.100	24.46446	25.00000	Averaged
8	2,2,4-Trimethylpentane	50.00000	56.22037	5879	0.100	12.44075	25.00000	Linear
9	Benzene	5447	6750	6750	0.100	23.90956	25.00000	Averaged
11	Toluene	5611	6940	6940	0.100	23.68199	25.00000	Averaged
12	n-Nonane	4425	5479	5479	0.100	23.81585	30.00000	Averaged
13	n-Decane	3985	4851	4851	0.100	21.74664	25.00000	Averaged
14	Ethylbenzene	5628	7002	7002	0.100	24.42195	25.00000	Averaged
15	m+p-Xylene	5732	7082	7082	0.100	23.55865	25.00000	Averaged
16	o-Xylene	5746	7133	7133	0.100	24.13371	25.00000	Averaged
18	1,2,4-trimethylbenzene	5806	6995	6995	0.100	20.48422	25.00000	Averaged
19	n-Butylcyclohexane	4700	5844	5844	0.100	24.34188	25.00000	Averaged
20	Naphthalene	3842	4284	4284	0.100	11.48849	25.00000	Averaged
21	2,5-Dibromotoluene (FID)	1900	1896	1896	0.100	-0.23091	25.00000	Averaged

*** = Compound out of QC criteria**

Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services **SDG :** WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID : GC02

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	DBT (FID)	DBT (PID)
Initial Calibration	WG142498-1	05/08/14	18:08		42.965
Initial Calibration	WG142498-2	05/08/14	18:08	42.967	
Initial Calibration	WG142498-3	05/08/14	19:01		42.962
Initial Calibration	WG142498-4	05/08/14	19:01	42.963	
Initial Calibration	WG142498-5	05/08/14	19:55		42.962
Initial Calibration	WG142498-6	05/08/14	19:55	42.963	
Initial Calibration	WG142498-7	05/08/14	20:49		42.962
Initial Calibration	WG142498-8	05/08/14	20:49	42.963	
Initial Calibration	WG142498-9	05/08/14	21:43		42.963
Initial Calibration	WG142498-10	05/08/14	21:43	42.963	
Initial Calibration	WG142498-11	05/08/14	22:38		42.962
Initial Calibration	WG142498-12	05/08/14	22:38	42.963	
Independent Source	WG142498-13	05/09/14	07:40		42.953
Independent Source	WG142498-13	05/09/14	07:40	42.953	42.953
Continuing Calibrati	WG146189-6	07/11/14	08:43		42.95
Continuing Calibrati	WG146189-6	07/11/14	08:43	42.951	42.95
Laboratory Control S	WG146189-2	07/11/14	09:35	42.953	42.952
Laboratory Control S	WG146189-3	07/11/14	10:28	42.953	42.952
Matrix Spike	WG146189-4	07/11/14	11:20	42.953	42.952
Matrix Spike Duplica	WG146189-5	07/11/14	12:13	42.953	42.952
Method Blank Sample	WG146189-1	07/11/14	13:58	42.952	42.952
FTA-GW-TB01-061714	SH4401-1	07/11/14	16:12	42.954	42.953
FTA-MW-9-061714	SH4401-2	07/11/14	17:05	42.954	42.954
FTA-MW-10-061714	SH4401-4	07/11/14	17:57	42.961	42.96
FTA-MW-11-061714	SH4401-6	07/11/14	18:51	42.961	42.96
FTA-MW-12-061714	SH4401-8	07/11/14	19:45	42.96	42.959
FTA-MW-5-061814	SH4401-10	07/11/14	20:39	42.958	42.958
FTA-MW-203-061814	SH4401-12	07/11/14	21:33	42.96	42.959
FTA-GW-DUP01-061814	SH4401-14	07/11/14	22:27	42.96	42.959
FTA-MW-218-061814	SH4401-16	07/11/14	23:22	42.959	42.959
FTA-MW-206-061814	SH4401-18	07/12/14	00:16	42.96	42.959
Continuing Calibrati	WG146189-7	07/12/14	01:11		42.959
Continuing Calibrati	WG146189-7	07/12/14	01:11	42.959	42.959
FTA-MW-14-061714	SH4401-20	07/12/14	02:05	42.959	42.958
FTA-GW-TB02-061814	SH4521-1	07/12/14	02:59	42.96	42.959
FTA-MW-208-061814	SH4521-2	07/12/14	03:54	42.961	42.961

Form 8
GC Analytical Sequence

Lab Name : Katahdin Analytical Services
SDG : WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID : GC02

Client Sample ID	Lab Sample ID	Date Analyzed	Time Analyzed	DBT (FID)	DBT (PID)
FTA-MW-1-061814	SH4521-4	07/12/14	04:49	42.962	42.961
FTA-GW-DUP02-061814	SH4521-6	07/12/14	05:43	42.96	42.959
FTA-MW-210-061814	SH4521-8	07/12/14	08:28	42.96	42.96
Continuing Calibrati	WG146189-8	07/12/14	12:01		42.955
Continuing Calibrati	WG146189-8	07/12/14	12:01	42.955	42.955

VOLATILES DATA

QC Summary Section

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NCTAMSLANT Cutler CTO WE53 **Matrix:** AQ
Lab Code: KAS **SDG:** WE53-7

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
FTA-GW-TB01-061714	SH4401-1		98.9		102.		117.		98.1	
FTA-MW-5-061814	SH4401-10		95.6		98.8		113.		94.4	
FTA-MW-203-061814	SH4401-12		98.6		102.		118.		96.0	
FTA-GW-DUP01-061814	SH4401-14		97.8		103.		118.		95.4	
FTA-MW-218-061814	SH4401-16		95.1		99.0		114.		92.9	
FTA-MW-206-061814	SH4401-18		97.0		103.		116.		95.7	
FTA-MW-9-061714	SH4401-2		99.0		102.		115.		96.0	
FTA-MW-14-061714	SH4401-20		93.7		103.		120.	*	96.2	
FTA-MW-10-061714	SH4401-4		96.0		100.		116.		97.2	
FTA-MW-11-061714	SH4401-6		97.9		103.		113.		95.5	
FTA-MW-12-061714	SH4401-8		95.2		100.		113.		94.4	
FTA-GW-TB02-061814	SH4521-1		96.3		99.8		119.		98.6	
FTA-SW-01-061914	SH4521-10		90.7		101.		119.		94.1	
FTA-SW-02-061914	SH4521-12		85.9		102.		118.		96.6	
FTA-SW-03-061914	SH4521-14		93.9		107.		126.	*	94.1	
FTA-SW-06-061914	SH4521-16RA		95.2		112.		117.		111.	
FTA-SW-07-061914	SH4521-18RA		98.3		115.	*	118.		114.	
FTA-MW-208-061814	SH4521-2		88.7		106.		120.	*	98.5	
FTA-SW-08-061914	SH4521-20RA		91.2		111.		112.		108.	
FTA-SW-DUP01-061914	SH4521-22RA		94.4		112.		114.		110.	
FTA-SD-RB01-062014	SH4521-24		89.6		101.		112.		93.0	
FTA-MW-1-061814	SH4521-4		90.0		102.		126.	*	88.9	
FTA-GW-DUP02-061814	SH4521-6		93.0		107.		123.	*	97.9	
FTA-MW-210-061814	SH4521-8		96.6		107.		118.		95.2	
Laboratory Control S	WG145261-1		103.		94.4		102.		94.9	
Method Blank Sample	WG145261-2		96.0		98.0		113.		95.4	
Laboratory Control S	WG145321-1		99.0		95.0		98.9		94.8	
Method Blank Sample	WG145321-2		96.0		104.		117.		99.0	
Matrix Spike	WG145321-5		102.		96.2		112.		95.0	
Matrix Spike Duplica	WG145321-6		102.		97.6		111.		95.2	
Matrix Spike	WG145321-7		102.		96.6		109.		95.5	
Matrix Spike Duplica	WG145321-8		104.		97.2		108.		97.2	
Laboratory Control S	WG145586-1		103.		94.0		85.6		104.	
Method Blank Sample	WG145586-2		93.6		106.		113.		108.	

600 Technology Way
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http://katahdinlab.com
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Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** NCTAMSLANT Cutler CTO WE53 **Matrix:** AQ
Lab Code: KAS **SDG:** WE53-7

		QC Limits
DCA	1,2-DICHLOROETHANE-D4	70-120
BFB	P-BROMOFLUOROBENZENE	75-120
DBF	DIBROMOFLUOROMETHANE	85-115
TOL	TOLUENE-D8	85-120

= Column to be used to flag recovery limits.
* = Values outside of contract required QC limits.
D= System Monitoring Compound diluted out.

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Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : C7849.D
Instrument ID : GCMS-C
Heated Purge : No

SDG : WE53-7
Lab Sample ID : WG145261-2
Date Analyzed : 23-JUN-14
Time Analyzed : 10:56

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145261-1	C7846.D	06/23/14	09:12
FTA-GW-TB01-061714	SH4401-1	C7853.D	06/23/14	12:58
FTA-MW-9-061714	SH4401-2	C7855.D	06/23/14	13:58
FTA-MW-10-061714	SH4401-4	C7856.D	06/23/14	14:28
FTA-MW-11-061714	SH4401-6	C7857.D	06/23/14	14:59
FTA-MW-12-061714	SH4401-8	C7858.D	06/23/14	15:29
FTA-MW-5-061814	SH4401-10	C7859.D	06/23/14	15:59
FTA-MW-203-061814	SH4401-12	C7860.D	06/23/14	16:30
FTA-GW-DUP01-061814	SH4401-14	C7861.D	06/23/14	17:00
FTA-MW-218-061814	SH4401-16	C7862.D	06/23/14	17:31
FTA-MW-206-061814	SH4401-18	C7863.D	06/23/14	18:01
FTA-MW-14-061714	SH4401-20	C7864.D	06/23/14	18:33

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : C7873.D
Instrument ID : GCMS-C
Heated Purge : No

SDG : WE53-7
Lab Sample ID : WG145321-2
Date Analyzed : 24-JUN-14
Time Analyzed : 10:26

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145321-1	C7870.D	06/24/14	08:39
FTA-GW-TB02-061814	SH4521-1	C7874.D	06/24/14	10:56
FTA-SD-RB01-062014	SH4521-24	C7875.D	06/24/14	11:27
FTA-MW-208-061814	SH4521-2	C7876.D	06/24/14	11:57
FTA-MW-1-061814	SH4521-4	C7877.D	06/24/14	12:28
FTA-GW-DUP02-061814	SH4521-6	C7878.D	06/24/14	12:58
FTA-MW-210-061814	SH4521-8	C7879.D	06/24/14	13:29
FTA-SW-01-061914	SH4521-10	C7880.D	06/24/14	13:59
FTA-SW-02-061914	SH4521-12	C7881.D	06/24/14	14:30
FTA-SW-03-061914	SH4521-14	C7882.D	06/24/14	15:01
Matrix Spike	WG145321-5	C7887.D	06/24/14	17:32
Matrix Spike Duplica	WG145321-6	C7888.D	06/24/14	18:02
Matrix Spike	WG145321-7	C7889.D	06/24/14	18:33
Matrix Spike Duplica	WG145321-8	C7890.D	06/24/14	19:05

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : D9209.D
Instrument ID : GCMS-D
Heated Purge : No

SDG : WE53-7
Lab Sample ID : WG145586-2
Date Analyzed : 28-JUN-14
Time Analyzed : 11:05

This Method Blank applies to the following samples, LCS, MS and MSD:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Laboratory Control S	WG145586-1	D9206.D	06/28/14	09:18
FTA-SW-06-061914	SH4521-16RA	D9210.D	06/28/14	11:37
FTA-SW-07-061914	SH4521-18RA	D9211.D	06/28/14	12:10
FTA-SW-08-061914	SH4521-20RA	D9212.D	06/28/14	12:43
FTA-SW-DUP01-061914	SH4521-22RA	D9213.D	06/28/14	13:16

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : CB839.D
Instrument ID : GCMS-C

SDG : WE53-7
Date Analyzed : 09-JUN-14
Time Analyzed : 10:43
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	21.4		
75	30.0 - 60.0% of mass 95	54.3		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.4		
173	Less than 2.0% of mass 174	0.7	0.90	1
174	Greater than 50.0% of mass 95	78.1		
175	5.0 - 9.0% of mass 174	6.8	8.77	1
176	95.0 - 101.0% of mass 174	77.9	99.79	1
177	5.0 - 9.0% of mass 176	5.1	6.52	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG144357-6	C7524.D	06/09/14	11:06
Initial Calibration	WG144357-5	C7525.D	06/09/14	11:36
Initial Calibration	WG144357-2	C7528.D	06/09/14	13:08
Initial Calibration	WG144357-1	C7529.D	06/09/14	13:39
Initial Calibration	WG144357-4	C7530.D	06/09/14	14:16
Initial Calibration	WG144357-3	C7531.D	06/09/14	15:05
Independent Source	WG144357-7	C7532A.D	06/09/14	15:57

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : CB852.D
Instrument ID : GCMS-C

SDG : WE53-7
Date Analyzed : 23-JUN-14
Time Analyzed : 08:04
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	19.5		
75	30.0 - 60.0% of mass 95	49.5		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.7		
173	Less than 2.0% of mass 174	0.3	0.39	1
174	Greater than 50.0% of mass 95	83.0		
175	5.0 - 9.0% of mass 174	6.8	8.19	1
176	95.0 - 101.0% of mass 174	81.3	97.90	1
177	5.0 - 9.0% of mass 176	5.5	6.77	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG145261-4	C7845.D	06/23/14	08:30
Laboratory Control S	WG145261-1	C7846.D	06/23/14	09:12
Method Blank Sample	WG145261-2	C7849.D	06/23/14	10:56
FTA-GW-TB01-061714	SH4401-1	C7853.D	06/23/14	12:58
FTA-MW-9-061714	SH4401-2	C7855.D	06/23/14	13:58
FTA-MW-10-061714	SH4401-4	C7856.D	06/23/14	14:28
FTA-MW-11-061714	SH4401-6	C7857.D	06/23/14	14:59
FTA-MW-12-061714	SH4401-8	C7858.D	06/23/14	15:29
FTA-MW-5-061814	SH4401-10	C7859.D	06/23/14	15:59
FTA-MW-203-061814	SH4401-12	C7860.D	06/23/14	16:30
FTA-GW-DUP01-061814	SH4401-14	C7861.D	06/23/14	17:00
FTA-MW-218-061814	SH4401-16	C7862.D	06/23/14	17:31
FTA-MW-206-061814	SH4401-18	C7863.D	06/23/14	18:01
FTA-MW-14-061714	SH4401-20	C7864.D	06/23/14	18:33

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : CB853.D
Instrument ID : GCMS-C

SDG : WE53-7
Date Analyzed : 24-JUN-14
Time Analyzed : 07:30
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	18.0		
75	30.0 - 60.0% of mass 95	49.2		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.6		
173	Less than 2.0% of mass 174	0.9	1.06	1
174	Greater than 50.0% of mass 95	81.8		
175	5.0 - 9.0% of mass 174	6.3	7.67	1
176	95.0 - 101.0% of mass 174	79.4	97.08	1
177	5.0 - 9.0% of mass 176	5.2	6.53	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG145321-4	C7869.D	06/24/14	07:53
Laboratory Control S	WG145321-1	C7870.D	06/24/14	08:39
Method Blank Sample	WG145321-2	C7873.D	06/24/14	10:26
FTA-GW-TB02-061814	SH4521-1	C7874.D	06/24/14	10:56
FTA-SD-RB01-062014	SH4521-24	C7875.D	06/24/14	11:27
FTA-MW-208-061814	SH4521-2	C7876.D	06/24/14	11:57
FTA-MW-1-061814	SH4521-4	C7877.D	06/24/14	12:28
FTA-GW-DUP02-061814	SH4521-6	C7878.D	06/24/14	12:58
FTA-MW-210-061814	SH4521-8	C7879.D	06/24/14	13:29
FTA-SW-01-061914	SH4521-10	C7880.D	06/24/14	13:59
FTA-SW-02-061914	SH4521-12	C7881.D	06/24/14	14:30
FTA-SW-03-061914	SH4521-14	C7882.D	06/24/14	15:01
Matrix Spike	WG145321-5	C7887.D	06/24/14	17:32
Matrix Spike Duplica	WG145321-6	C7888.D	06/24/14	18:02
Matrix Spike	WG145321-7	C7889.D	06/24/14	18:33
Matrix Spike Duplica	WG145321-8	C7890.D	06/24/14	19:05

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : DB350.D
Instrument ID : GCMS-D

SDG : WE53-7
Date Analyzed : 11-JUN-14
Time Analyzed : 13:38
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	17.3		
75	30.0 - 60.0% of mass 95	43.2		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	7.6		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	65.8		
175	5.0 - 9.0% of mass 174	5.8	8.81	1
176	95.0 - 101.0% of mass 174	66.2	100.48	1
177	5.0 - 9.0% of mass 176	4.4	6.64	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Initial Calibration	WG144515-3	D8861.D	06/11/14	14:03
Initial Calibration	WG144515-2	D8862.D	06/11/14	14:35
Initial Calibration	WG144515-1	D8863.D	06/11/14	15:07
Initial Calibration	WG144515-6	D8865.D	06/11/14	16:13
Initial Calibration	WG144515-5	D8866.D	06/11/14	16:45
Initial Calibration	WG144515-4	D8867.D	06/11/14	17:18
Independent Source	WG144515-7	D8868A.D	06/11/14	17:50

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File ID : DB368.D
Instrument ID : GCMS-D

SDG : WE53-7
Date Analyzed : 28-JUN-14
Time Analyzed : 08:08
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	19.7		
75	30.0 - 60.0% of mass 95	53.9		
95	Base Peak, 100% relative abundance	100		
96	5.0 - 9.0% of mass 95	6.7		
173	Less than 2.0% of mass 174	0.0	0.0	1
174	Greater than 50.0% of mass 95	78.0		
175	5.0 - 9.0% of mass 174	4.9	6.34	1
176	95.0 - 101.0% of mass 174	74.8	95.93	1
177	5.0 - 9.0% of mass 176	5.9	7.93	2

1-Value is % mass 174 2-Value is % mass 176

This check applies to the following samples, LCS, MS, MSD and standards:

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
Continuing Calibrati	WG145586-4	D9205.D	06/28/14	08:35
Laboratory Control S	WG145586-1	D9206.D	06/28/14	09:18
Method Blank Sample	WG145586-2	D9209.D	06/28/14	11:05
FTA-SW-06-061914	SH4521-16RA	D9210.D	06/28/14	11:37
FTA-SW-07-061914	SH4521-18RA	D9211.D	06/28/14	12:10
FTA-SW-08-061914	SH4521-20RA	D9212.D	06/28/14	12:43
FTA-SW-DUP01-061914	SH4521-22RA	D9213.D	06/28/14	13:16

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG144357-4
Lab File ID : C7530.D

SDG: WE53-7
Analytical Date: 06/09/14 14:16
Instrument ID: GCMS-C

		PENTAFLUOROBENZENE		1,4-DIFLUOROBENZENE		CHLOROBENZENE-D5	
		Area #	RT #	Area #	RT #	Area #	RT #
	Std .	1508419	8.07	2172315	8.72	2155688	12.21
	Upper Limit	3016838	8.57	4344630	9.22	4311376	12.71
	Lower Limit	754209.5	7.57	1086157.5	8.22	1077844	11.71
Client Sample ID	Lab Sample ID						
Continuing Calibrati	WG145261-4	1127904	8.06	1700036	8.72	1719184	12.21
Laboratory Control S	WG145261-1	1212114	8.06	1769162	8.73	1796750	12.21
Method Blank Sample	WG145261-2	994425	8.07	1550314	8.72	1571676	12.21
FTA-GW-TB01-06171	SH4401-1	978849	8.06	1498797	8.72	1556677	12.21
FTA-MW-9-061714	SH4401-2	963736	8.06	1504427	8.72	1522424	12.21
FTA-MW-10-061714	SH4401-4	959638	8.07	1494223	8.72	1515863	12.21
FTA-MW-11-061714	SH4401-6	956071	8.06	1506551	8.72	1483398	12.21
FTA-MW-12-061714	SH4401-8	949525	8.06	1490050	8.72	1530543	12.21
FTA-MW-5-061814	SH4401-10	950307	8.06	1504545	8.72	1505593	12.21
FTA-MW-203-061814	SH4401-12	948396	8.06	1503202	8.72	1518853	12.21
FTA-GW-DUP01-0618	SH4401-14	941202	8.06	1501735	8.72	1523667	12.21
FTA-MW-218-061814	SH4401-16	973510	8.07	1533190	8.72	1554924	12.21
FTA-MW-206-061814	SH4401-18	949887	8.07	1497262	8.72	1500638	12.21
FTA-MW-14-061714	SH4401-20	947370	8.06	1492605	8.72	1509216	12.21
Continuing Calibrati	WG145321-4	1150363	8.06	1680504	8.72	1686639	12.21
Laboratory Control S	WG145321-1	1217735	8.06	1793795	8.72	1794320	12.21
Method Blank Sample	WG145321-2	915193	8.06	1488746	8.72	1584149	12.21
FTA-GW-TB02-06181	SH4521-1	911494	8.06	1465357	8.72	1577419	12.21
FTA-SD-RB01-062014	SH4521-24	983838	8.07	1510057	8.72	1558667	12.21
FTA-MW-208-061814	SH4521-2	957025	8.07	1530270	8.73	1444476	12.21
FTA-MW-1-061814	SH4521-4	894297	8.06	1512860	8.72	1420608	12.21
FTA-GW-DUP02-0618	SH4521-6	865679	8.06	1412937	8.72	1387385	12.21
FTA-MW-210-061814	SH4521-8	894640	8.06	1468868	8.72	1442354	12.21
FTA-SW-01-061914	SH4521-10	921107	8.06	1461056	8.72	1398654	12.21
FTA-SW-02-061914	SH4521-12	915219	8.07	1448754	8.73	1400592	12.21
FTA-SW-03-061914	SH4521-14	750060 *	8.06	1310770	8.72	1327756	12.21
Matrix Spike	WG145321-5	949487	8.06	1495328	8.72	1562834	12.21
Matrix Spike Duplica	WG145321-6	1028830	8.07	1600121	8.72	1645928	12.21
Matrix Spike	WG145321-7	1061174	8.06	1661127	8.73	1686204	12.21
Matrix Spike Duplica	WG145321-8	1074170	8.07	1664867	8.72	1719178	12.21

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG144357-4
Lab File ID : C7530.D

SDG: WE53-7
Analytical Date: 06/09/14 14:16
Instrument ID: GCMS-C

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	1334267		15.55	
	Upper Limit	2668534		16.05	
	Lower Limit	667133.5		15.05	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG145261-4	1040390		15.54	
Laboratory Control S	WG145261-1	1079151		15.54	
Method Blank Sample	WG145261-2	866485		15.54	
FTA-GW-TB01-06171⁴	SH4401-1	845220		15.54	
FTA-MW-9-061714	SH4401-2	839876		15.54	
FTA-MW-10-061714	SH4401-4	839049		15.54	
FTA-MW-11-061714	SH4401-6	840957		15.54	
FTA-MW-12-061714	SH4401-8	836018		15.54	
FTA-MW-5-061814	SH4401-10	824483		15.54	
FTA-MW-203-061814	SH4401-12	826115		15.54	
FTA-GW-DUP01-0618	SH4401-14	841747		15.54	
FTA-MW-218-061814	SH4401-16	794826		15.54	
FTA-MW-206-061814	SH4401-18	826344		15.54	
FTA-MW-14-061714	SH4401-20	785130		15.54	
Continuing Calibrati	WG145321-4	1013294		15.54	
Laboratory Control S	WG145321-1	1033307		15.54	
Method Blank Sample	WG145321-2	863647		15.54	
FTA-GW-TB02-06181⁴	SH4521-1	795688		15.54	
FTA-SD-RB01-062014	SH4521-24	774160		15.54	
FTA-MW-208-061814	SH4521-2	747475		15.54	
FTA-MW-1-061814	SH4521-4	763350		15.54	
FTA-GW-DUP02-0618	SH4521-6	736547		15.54	
FTA-MW-210-061814	SH4521-8	824229		15.54	
FTA-SW-01-061914	SH4521-10	820749		15.54	
FTA-SW-02-061914	SH4521-12	710750		15.54	
FTA-SW-03-061914	SH4521-14	695252		15.54	
Matrix Spike	WG145321-5	920555		15.54	
Matrix Spike Duplica	WG145321-6	970507		15.54	
Matrix Spike	WG145321-7	981935		15.54	
Matrix Spike Duplica	WG145321-8	996885		15.54	

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG144357-4
Lab File ID : C7530.D

SDG: WE53-7
Analytical Date: 06/09/14 14:16
Instrument ID: GCMS-C

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG144515-4
Lab File ID : D8867.D

SDG: WE53-7
Analytical Date: 06/11/14 17:18
Instrument ID: GCMS-D

		PENTAFLUOROBENZENE			1,4-DIFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	#	Area	#	RT	#	Area	#	RT	#
	Std .	508846		7.93		805504		8.59		764958		12.08	
	Upper Limit	1017692		8.43		1611008		9.09		1529916		12.58	
	Lower Limit	254423		7.43		402752		8.09		382479		11.58	
Client Sample ID	Lab Sample ID												
Continuing Calibrati	WG145586-4	456290		7.92		756716		8.59		756615		12.07	
Laboratory Control S	WG145586-1	516090		7.93		839368		8.59		820233		12.07	
Method Blank Sample	WG145586-2	351492		7.92		637801		8.59		570749		12.07	
FTA-SW-06-061914	SH4521-16RA	321844		7.92		598150		8.59		541606		12.07	
FTA-SW-07-061914	SH4521-18RA	296296		7.92		556675		8.59		504354		12.07	
FTA-SW-08-061914	SH4521-20RA	314491		7.92		580658		8.59		525706		12.07	
FTA-SW-DUP01-0619	SH4521-22RA	300103		7.93		551979		8.59		513550		12.07	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WI
Lab ID : WG144515-4
Lab File ID : D8867.D

SDG: WE53-7
Analytical Date: 06/11/14 17:18
Instrument ID: GCMS-D

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	449110		15.38	
	Upper Limit	898220		15.88	
	Lower Limit	224555		14.88	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG145586-4	443255		15.37	
Laboratory Control S	WG145586-1	476492		15.37	
Method Blank Sample	WG145586-2	294224		15.37	
FTA-SW-06-061914	SH4521-16RA	281198		15.37	
FTA-SW-07-061914	SH4521-18RA	265836		15.37	
FTA-SW-08-061914	SH4521-20RA	273817		15.37	
FTA-SW-DUP01-0619	SH4521-22RA	268526		15.37	

Area Upper Limit = +100% of internal standard area
Area Lower Limit = - 50% of internal standard area
RT Upper Limit = + 0.50 minutes of internal standard RT
RT Lower Limit = - 0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

Sample Data Section

KATAHDIN ANALYTICAL SERVICES - ORGANIC DATA QUALIFIERS

The sampled date indicated on the attached Report(s) of Analysis (ROA) is the date for which a grab sample was collected or the date for which a composite sample was completed. Beginning and start times for composite samples can be found on the Chain-of-Custody.

U Indicates the compound was analyzed for but not detected above the specified level. This level may be the Limit of Quantitation (LOQ)(previously called Practical Quantitation Level (PQL)), the Limit of Detection (LOD) or Method Detection Limit (MDL) as required by the client.

Note: All results reported as "U" MDL have a 50% rate for false negatives compared to those results reported as "U" PQL/LOQ or "U" LOD, where the rate of false negatives is <1%.

* Compound recovery outside of quality control limits.

D Indicates the result was obtained from analysis of a diluted sample. Surrogate recoveries may not be calculable.

E Estimated value. This flag identifies compounds whose concentrations exceed the upper level of the calibration range of the instrument for that specific analysis.

J Estimated value. The analyte was detected in the sample at a concentration less than the laboratory Limit of Quantitation (LOQ)(previously called Practical Quantitation Limit (PQL)), but above the Method Detection Limit (MDL).

or

J Used for Pesticides, PCBs, Herbicides, Formaldehyde, Explosives and Method 504.1 analytes when there is a greater than 40% difference for detected concentrations between the two GC columns.

B Indicates the analyte was detected in the laboratory method blank analyzed concurrently with the sample.

C Indicates that the flagged compound did not meet DoD criteria in the corresponding daily calibration verification (CV).

L Indicates that the flagged compound did not meet DoD criteria in the corresponding Laboratory Control Sample (LCS) and/or Laboratory Control Sample Duplicate (LCSD) prepared and/or analyzed concurrently with the sample.

M Indicates that the flagged compound did not meet DoD criteria in the Matrix Spike and/or Matrix Spike Duplicate prepared and/or analyzed concurrently with the native sample.

N Presumptive evidence of a compound based on a mass spectral library search.

A Indicates that a tentatively identified compound is a suspected aldol-condensation product.

P Used for Pesticide/Aroclor analyte when there is a greater than 25% difference for detected concentrations between the two GC columns. (for CLP methods only).

Katahdin Analytical Services, Inc.

Manual Integration Codes For GC/MS, GC, HPLC and/or IC

M1	Peak splitting.
M2	Well defined peaks on the shoulders of the other peaks.
M3	There is additional area due to a coeluting interferant.
M4	There are negative spikes in the baseline.
M5	There are rising or falling baselines.
M6	The software has failed to detect a peak or misidentified a peak.
M7	Excessive peak tailing.
M8	Analysis such as GRO, DRO and TPH require a baseline hold.
M9	Peak was not completely integrated as in GC/MS.
M10	Primary ion was correctly integrated, but secondary or tertiary ion needed manual integration as in GC/MS.
M11	For GC analysis, when a sample is diluted by 1:10 or more, the surrogate is set to undetected and then the area under the surrogate is manually integrated.
M12	Manual integration saved in method due to TurboChrom floating point error.

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-1
Client ID: FTA-GW-TB01-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7853.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		98.9	%					
Toluene-d8		98.1	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-1
Client ID: FTA-GW-TB01-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7853.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		117.	%					
Dibromofluoromethane		102.	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7853.D
Report Date: 15-Jul-2014 12:13

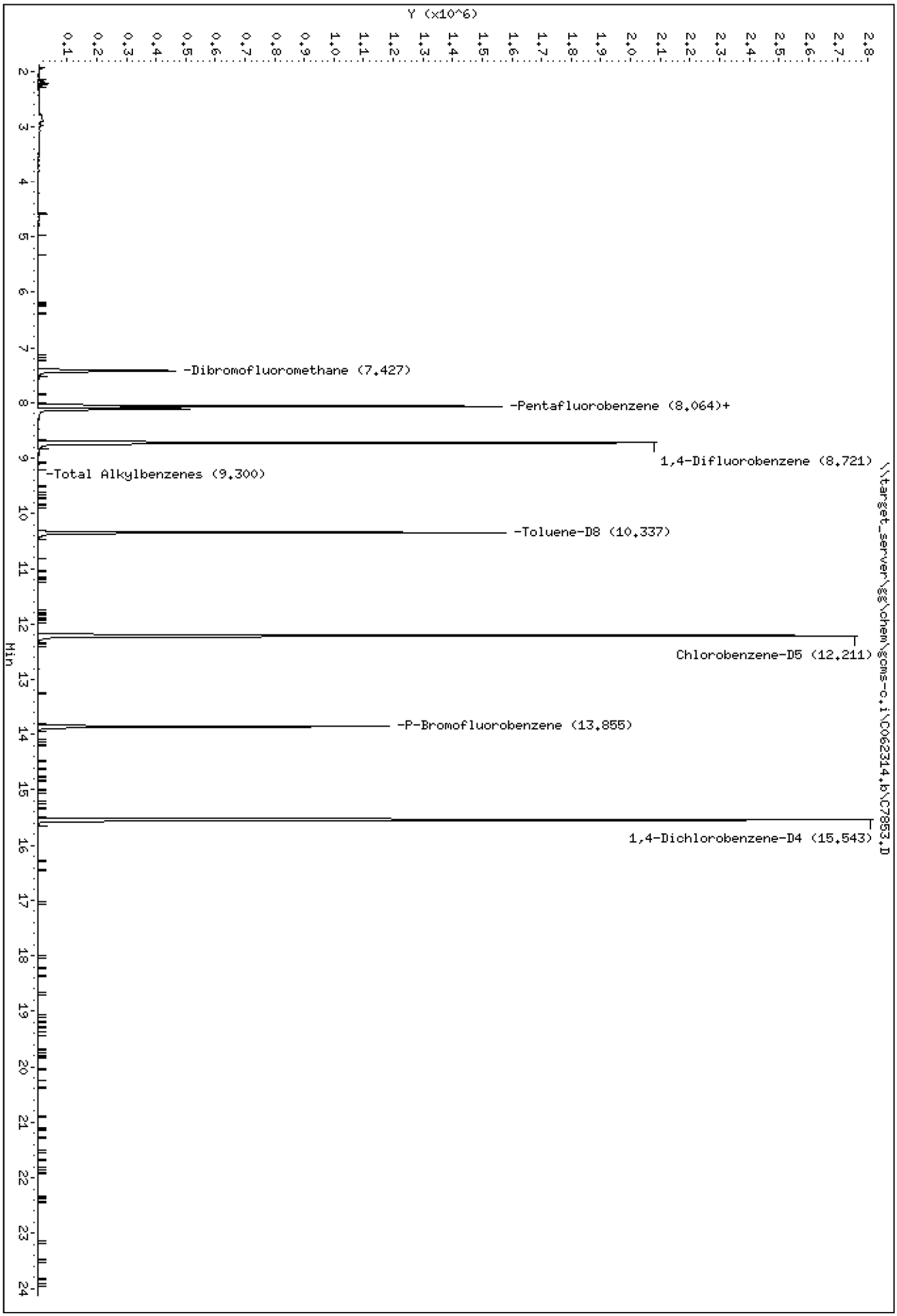
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7853.D
Lab Smp Id: SH4401-1 Client Smp ID: FTA-GW-TB01-061714
Inj Date : 23-JUN-2014 12:58 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-1
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.427	7.427	(0.921)	282601	50.8074	50.8	
* 42 Pentafluorobenzene	168	8.063	8.063	(1.000)	978849	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.113	8.113	(1.006)	329851	58.3008	58.3	
* 49 1,4-Difluorobenzene	114	8.721	8.721	(1.000)	1498797	50.0000		
$ 55 Toluene-D8	98	10.337	10.344	(1.185)	919657	49.0710	49.1	
* 66 Chlorobenzene-D5	117	12.210	12.210	(1.000)	1556677	50.0000		
$ 76 P-Bromofluorobenzene	95	13.855	13.855	(1.589)	397470	49.4737	49.5	
* 91 1,4-Dichlorobenzene-D4	152	15.542	15.542	(1.000)	845220	50.0000		



Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7853.D
Date : 23-JUN-2014 12:58
Client ID: FTA-GW-TB01-061714
Sample Info: SH4401-1

Instrument: gcms-c.i

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-2
Client ID: FTA-MW-9-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7855.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	J	0.38	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	J	0.81	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		99.0	%					
Toluene-d8		96.0	%					

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-2
Client ID: FTA-MW-9-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7855.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		115.	%					
Dibromofluoromethane		102.	%					

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7855.D
Report Date: 15-Jul-2014 12:13

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7855.D
Lab Smp Id: SH4401-2 Client Smp ID: FTA-MW-9-061714
Inj Date : 23-JUN-2014 13:58 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-2
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

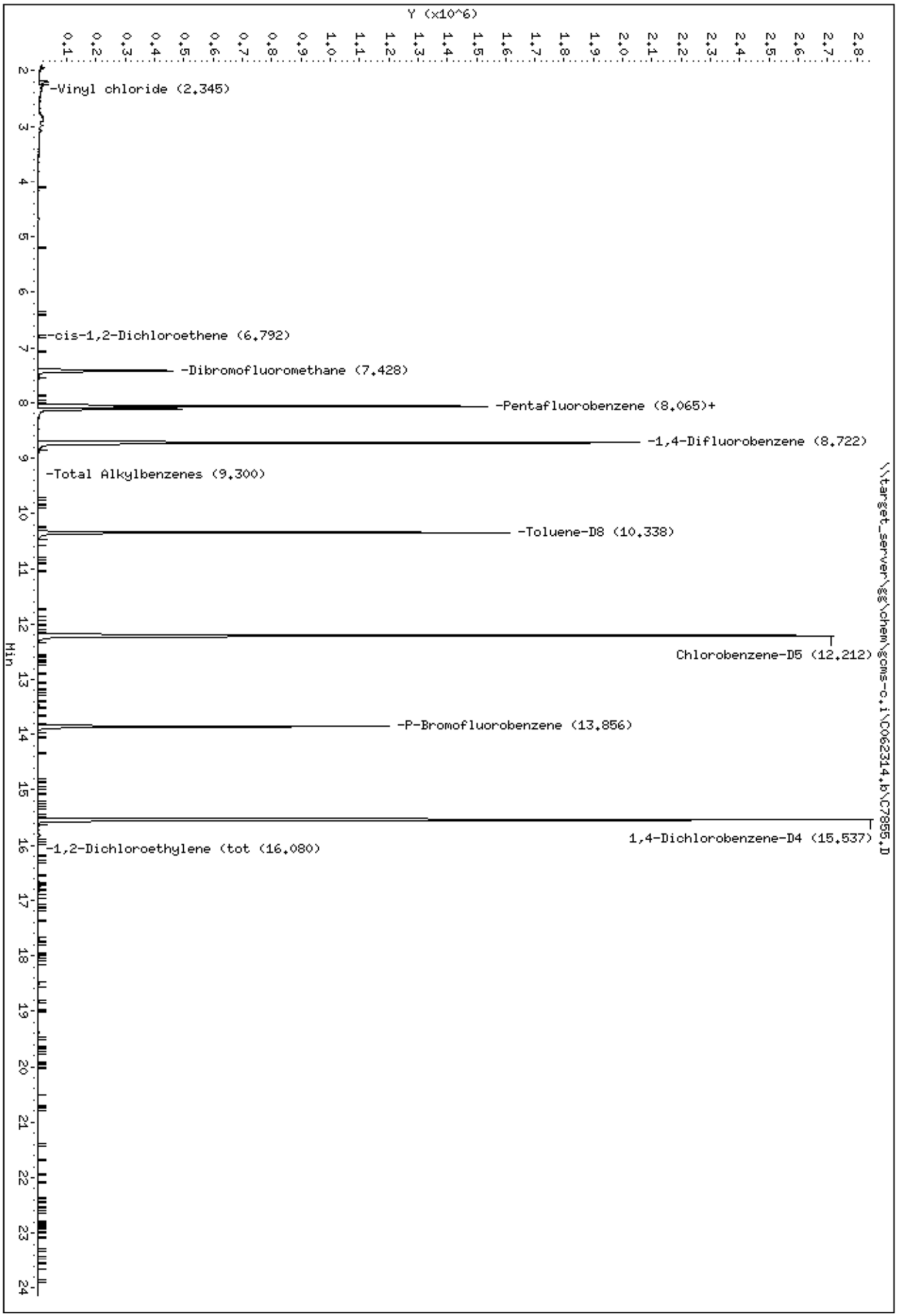
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	3 Vinyl chloride	62	2.344	2.343	(0.291)	4642	0.81387	0.81(aM)	M10
	29 cis-1,2-Dichloroethene	96	6.791	6.783	(0.842)	2138	0.38135	0.38(a)	
M	30 1,2-Dichloroethylene (total)	96				2138	0.38135	0.38(a)	
$	37 Dibromofluoromethane	113	7.428	7.427	(0.921)	279332	51.0073	51.0	
*	42 Pentafluorobenzene	168	8.064	8.063	(1.000)	963736	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.114	8.113	(1.006)	321121	57.6479	57.6	
*	49 1,4-Difluorobenzene	114	8.722	8.721	(1.000)	1504427	50.0000		
$	55 Toluene-D8	98	10.338	10.344	(1.185)	903195	48.0122	48.0	
*	66 Chlorobenzene-D5	117	12.211	12.210	(1.000)	1522424	50.0000		
$	76 P-Bromofluorobenzene	95	13.856	13.855	(1.589)	399283	49.5134	49.5	
*	91 1,4-Dichlorobenzene-D4	152	15.536	15.542	(1.000)	839876	50.0000		

DJP
12:41 pm, Jul 15, 2014

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\target_server\gc\chem\gcms-c.i\C062314.b\C7855.D
Date : 23-JUN-2014 13:58
Client ID: FTA-MW-9-061714
Sample Info: SH4401-2

Instrument: gcms-c.i

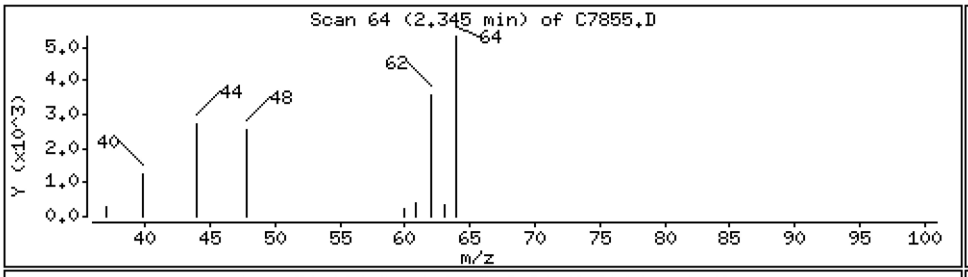
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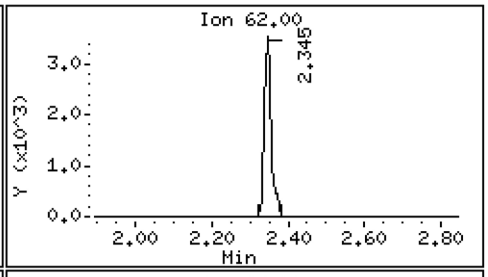
Date : 23-JUN-2014 13:58

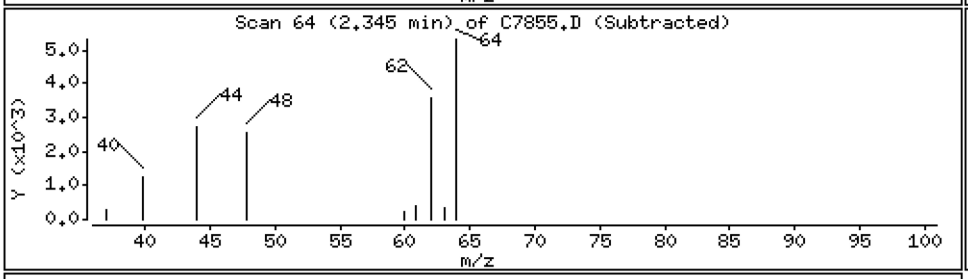
Client ID: FTA-MW-9-061714 Instrument: gcms-c.i

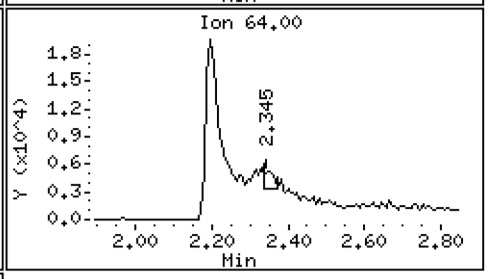
Sample Info: SH4401-2

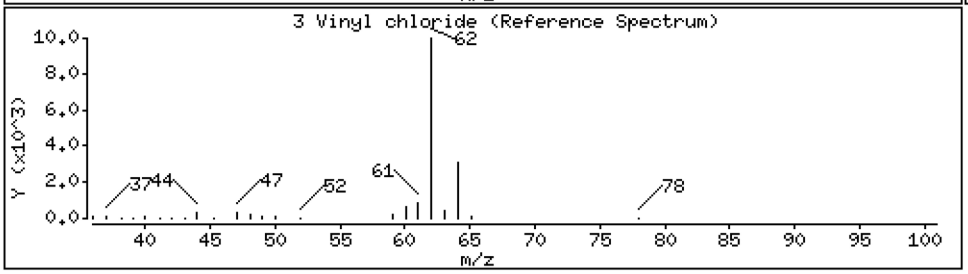
3 Vinyl chloride Concentration: 0.81 ug/l



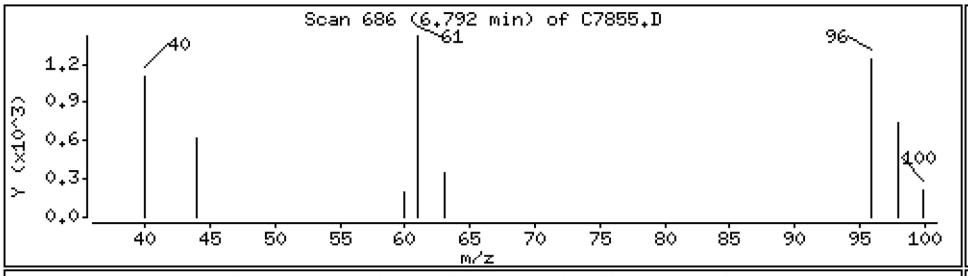


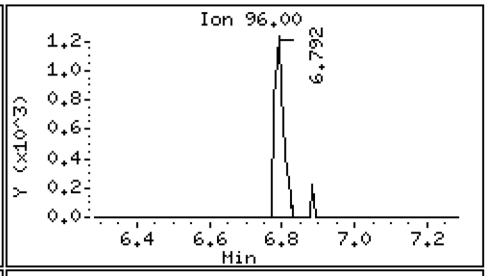


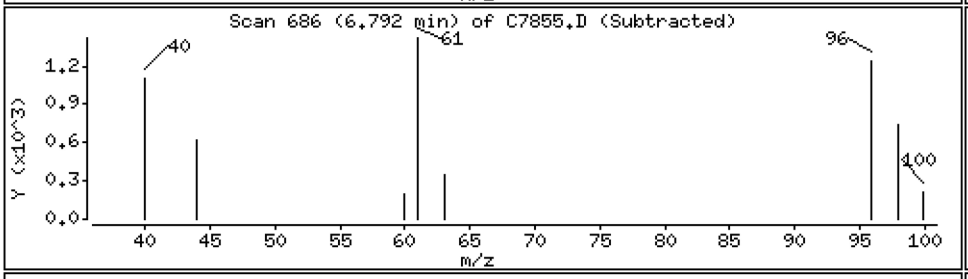


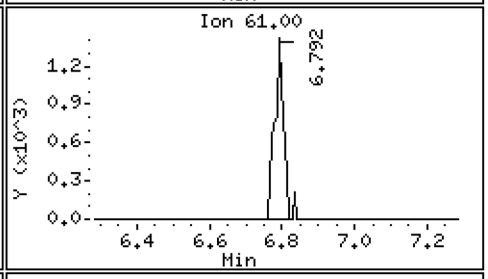


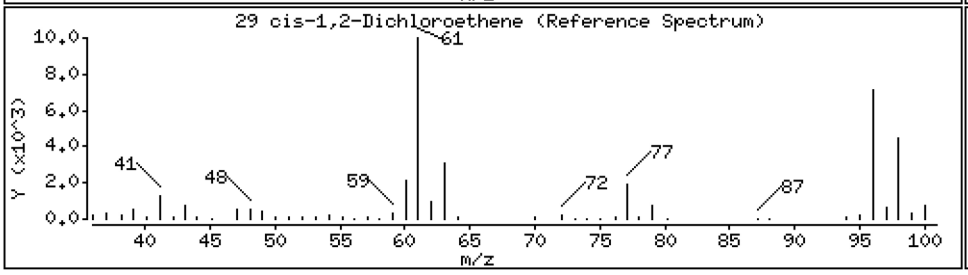
29 cis-1,2-Dichloroethene Concentration: 0.38 ug/l

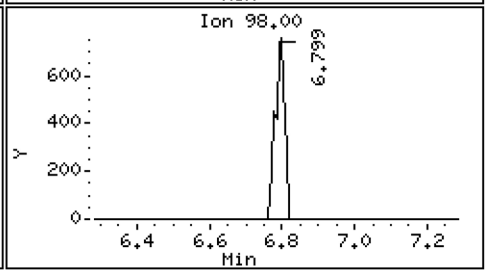








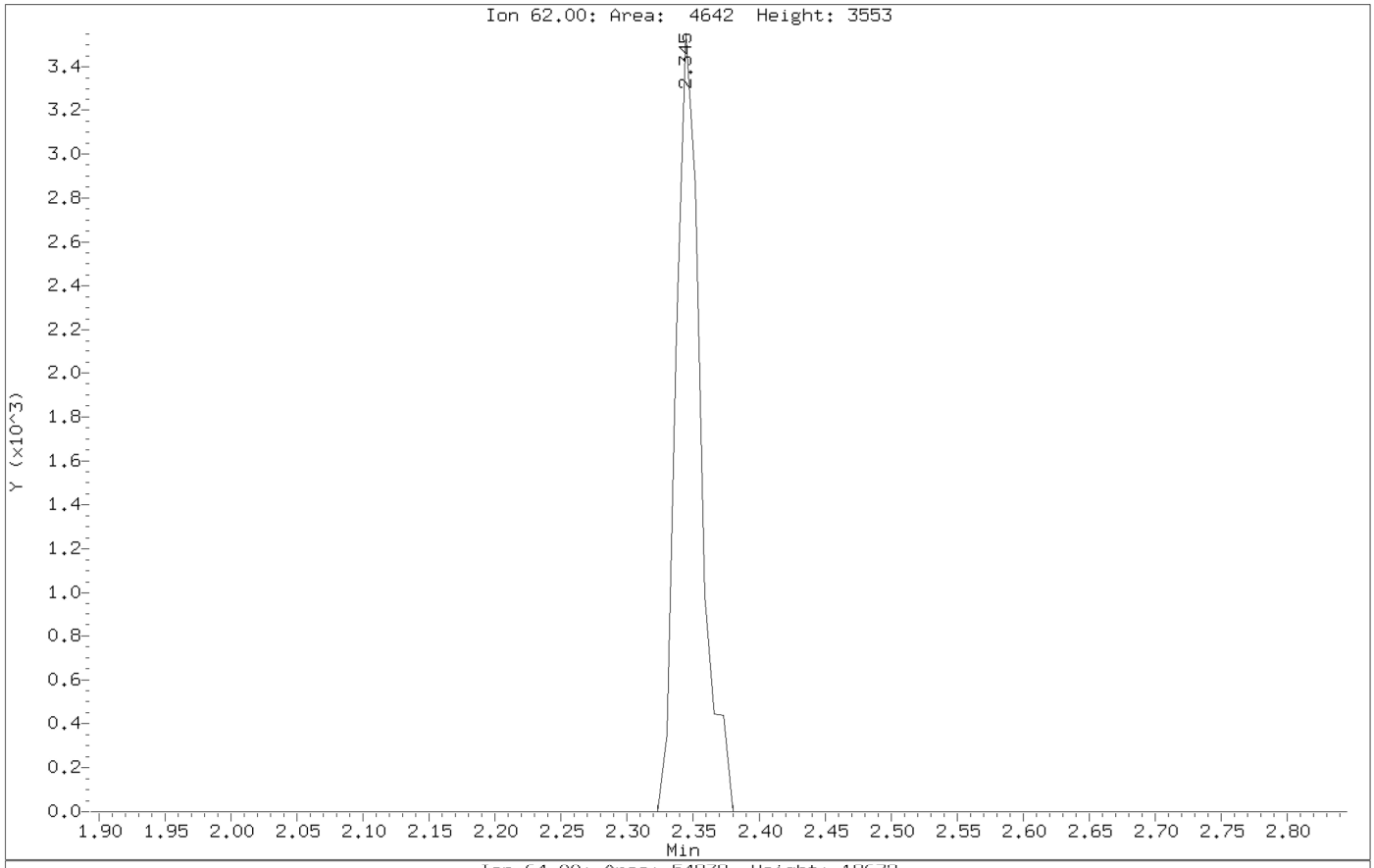


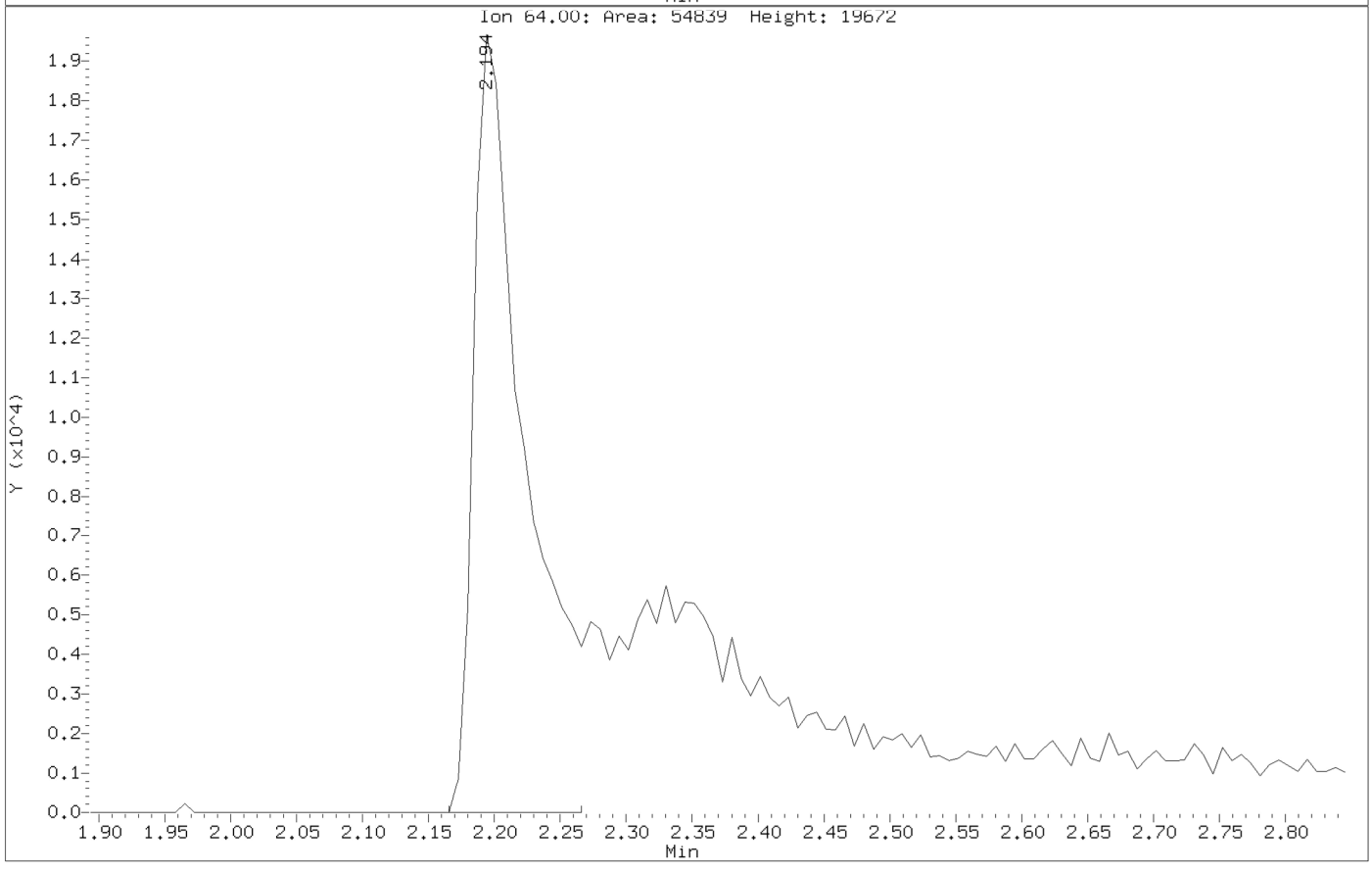


Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7855.D
Injection Date: 23-JUN-2014 13:58
Instrument: gcms-c.i
Client Sample ID: FTA-MW-9-061714

Compound: Vinyl chloride
CAS Number: 75-01-4

BEFORE MANUAL INTEGRATION

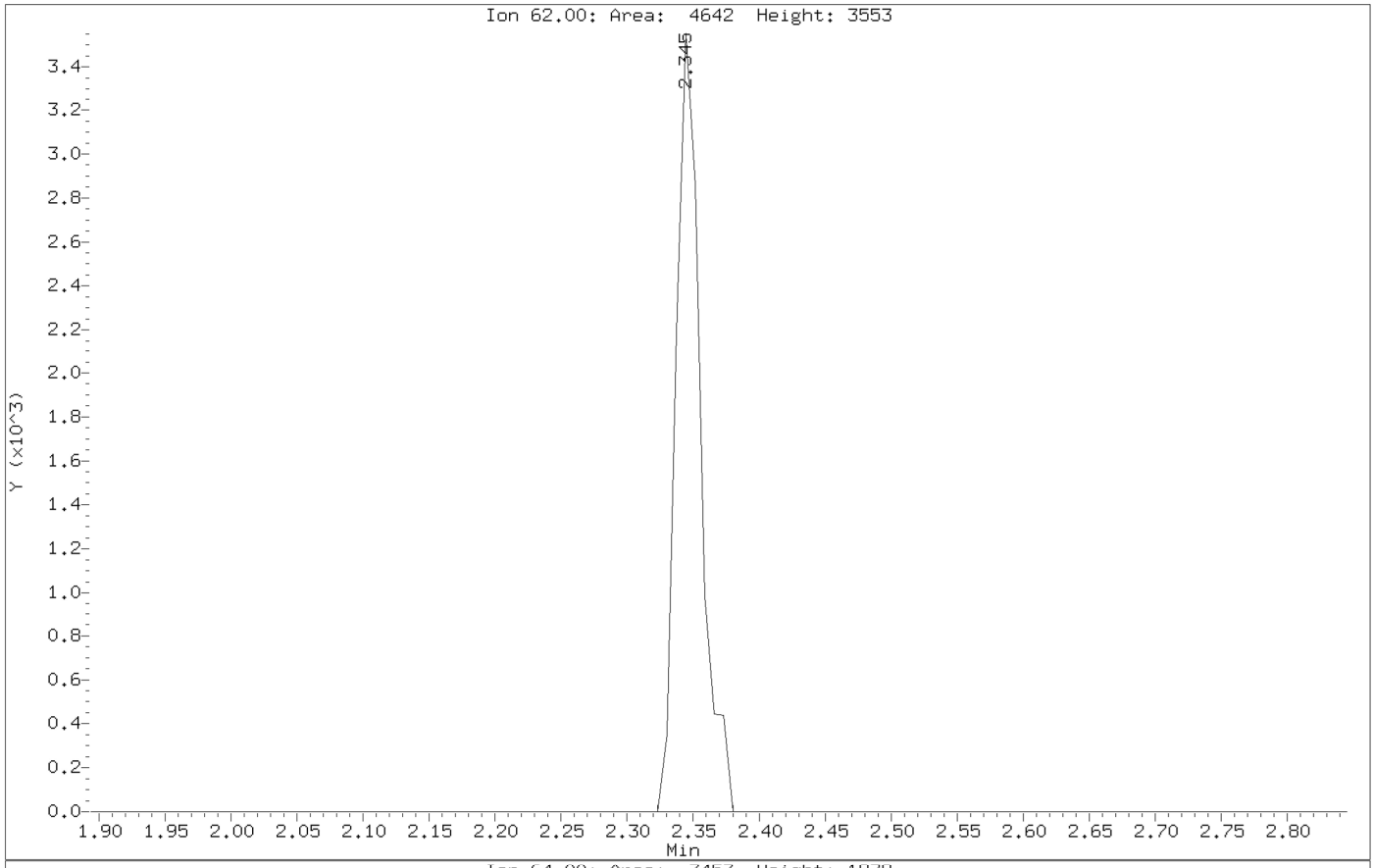


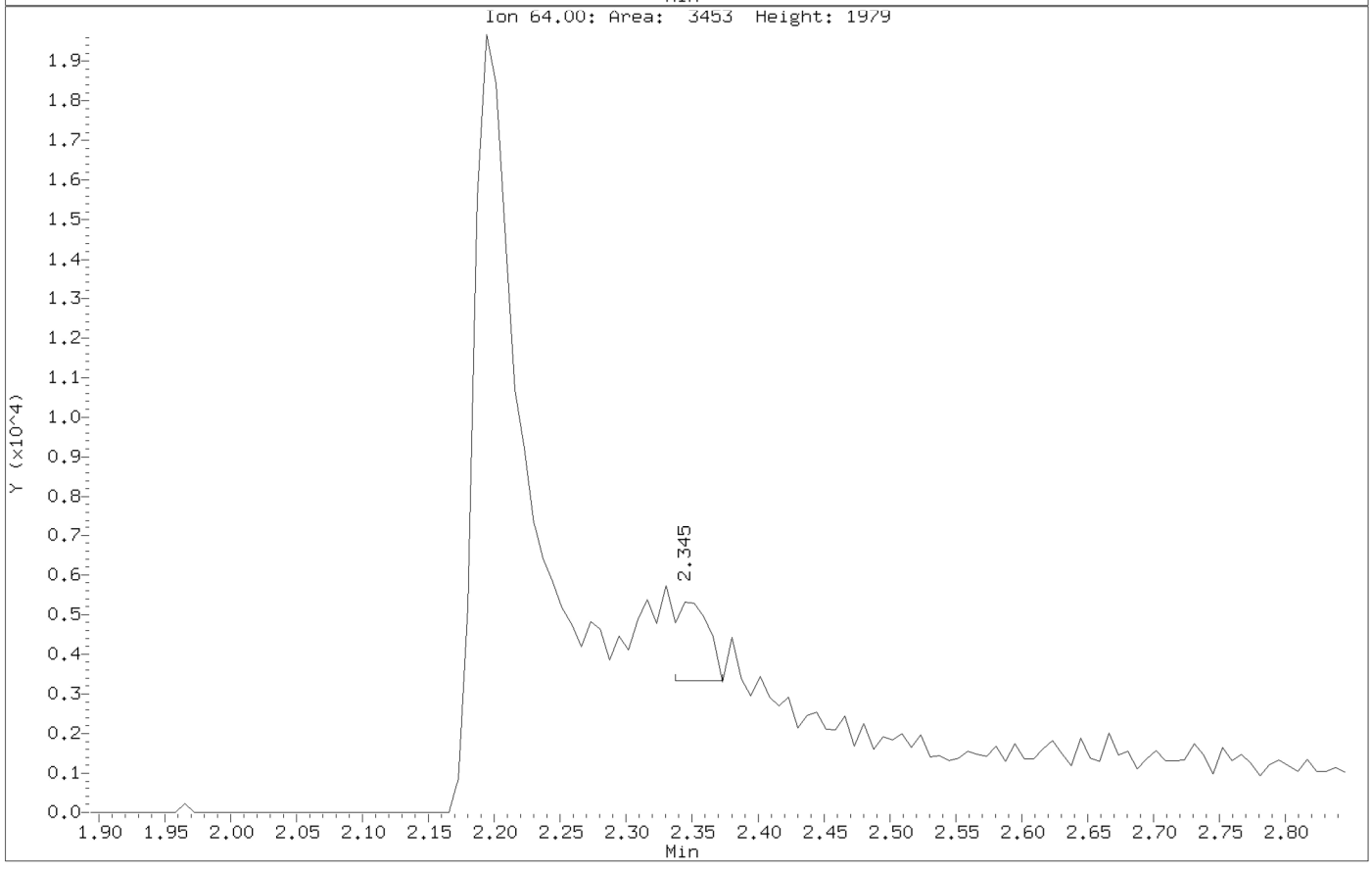


Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7855.D
Injection Date: 23-JUN-2014 13:58
Instrument: gcms-c.i
Client Sample ID: FTA-MW-9-061714

Compound: Vinyl chloride
CAS Number: 75-01-4

AFTER MANUAL INTEGRATION





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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-4
Client ID: FTA-MW-10-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7856.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		96.0	%					
Toluene-d8		97.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-4
Client ID: FTA-MW-10-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7856.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		116.	%					
Dibromofluoromethane		100.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7856.D
Report Date: 15-Jul-2014 12:13

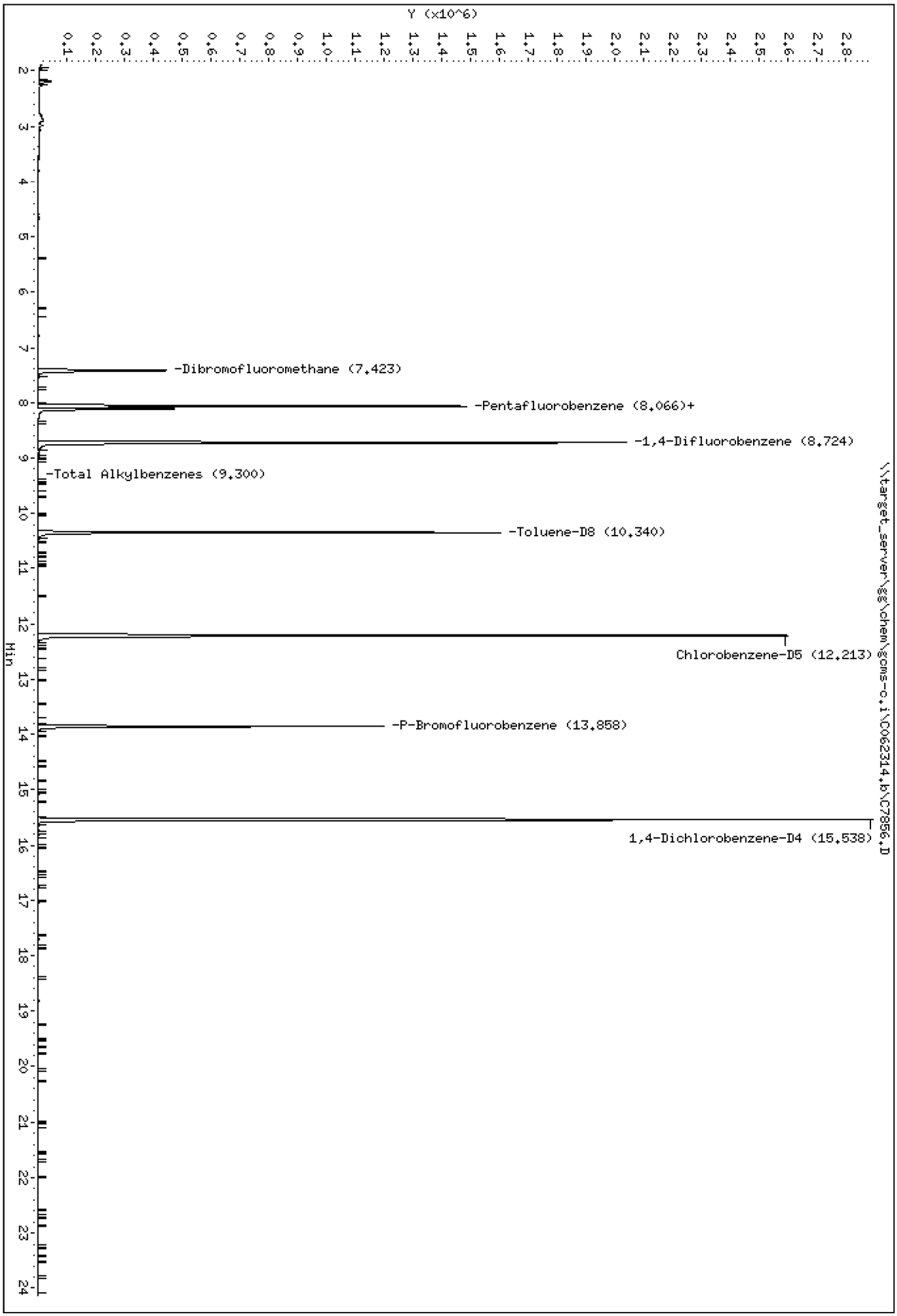
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7856.D
Lab Smp Id: SH4401-4 Client Smp ID: FTA-MW-10-061714
Inj Date : 23-JUN-2014 14:28 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-4
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.422	7.427	(0.920)	273339	50.1261	50.1	
* 42 Pentafluorobenzene	168	8.066	8.063	(1.000)	959638	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.109	8.113	(1.005)	322404	58.1254	58.1	
* 49 1,4-Difluorobenzene	114	8.724	8.721	(1.000)	1494223	50.0000		
$ 55 Toluene-D8	98	10.339	10.344	(1.185)	908034	48.5991	48.6	
* 66 Chlorobenzene-D5	117	12.213	12.210	(1.000)	1515863	50.0000		
$ 76 P-Bromofluorobenzene	95	13.857	13.855	(1.588)	384284	47.9789	48.0	
* 91 1,4-Dichlorobenzene-D4	152	15.538	15.542	(1.000)	839049	50.0000		


Y (x10^6)
Min
-Dibromofluoromethane (7.423)
-Pentafluorobenzene (8.066)+
-1,4-Difluorobenzene (8.724)
-Total Alkylbenzenes (9.300)
-Toluene-D8 (10.340)
Chlorobenzene-D5 (12.213)
-P-Bromofluorobenzene (13.858)
1,4-Dichlorobenzene-D4 (15.538)
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Data File: \\target_server\gc\chem\gcms-c.i\C062314.b\C7856.D
Date : 23-JUN-2014 14:28
Client ID: FTA-MW-10-061714
Sample Info: SH4401-4
Instrument: gcms-c.i

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-6
Client ID: FTA-MW-11-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7857.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	J	0.24	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		97.9	%					
Toluene-d8		95.5	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-6
Client ID: FTA-MW-11-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7857.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		113.	%					
Dibromofluoromethane		103.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7857.D
Report Date: 15-Jul-2014 12:13

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7857.D
Lab Smp Id: SH4401-6 Client Smp ID: FTA-MW-11-061714
Inj Date : 23-JUN-2014 14:59 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-6
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

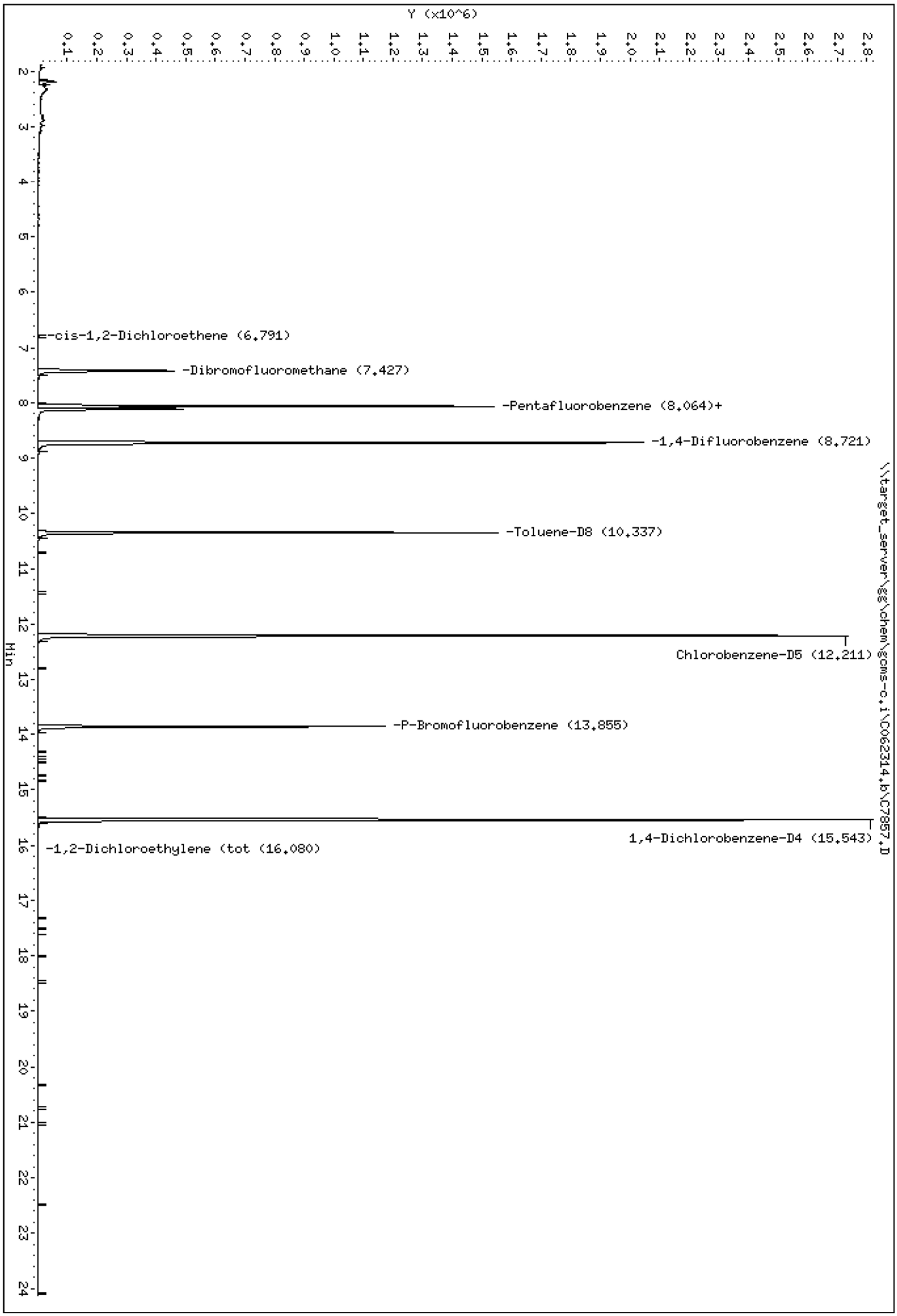
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	29 cis-1,2-Dichloroethene	96	6.798	6.783	(0.843)	1328	0.23877	0.24(a)	
M	30 1,2-Dichloroethylene (total)	96				1328	0.23877	0.24(a)	
$	37 Dibromofluoromethane	113	7.427	7.427	(0.921)	279535	51.4536	51.4	
*	42 Pentafluorobenzene	168	8.063	8.063	(1.000)	956071	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.113	8.113	(1.006)	312265	56.5075	56.5	
*	49 1,4-Difluorobenzene	114	8.721	8.721	(1.000)	1506551	50.0000		
$	55 Toluene-D8	98	10.337	10.344	(1.185)	899613	47.7544	47.8	
*	66 Chlorobenzene-D5	117	12.210	12.210	(1.000)	1483398	50.0000		
$	76 P-Bromofluorobenzene	95	13.855	13.855	(1.589)	395337	48.9550	49.0	
*	91 1,4-Dichlorobenzene-D4	152	15.542	15.542	(1.000)	840957	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
-cis-1,2-Dichloroethene (6.791)
-Dibromofluoromethane (7.427)
-Pentafluorobenzene (8.064)+
-1,4-Difluorobenzene (8.721)
-Toluene-D8 (10.337)
Chlorobenzene-D5 (12.211)
-P-Bromofluorobenzene (13.855)
1,4-Dichlorobenzene-D4 (15.543)
-1,2-Dichloroethylene (tot (16.080)
\\target_server\gg\chem\gcms-c.i\C062314.b\C7857.D
Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7857.D
Date : 23-JUN-2014 14:59
Client ID: FTA-MW-11-061714
Sample Info: SH4401-6
Instrument: gcms-c.i

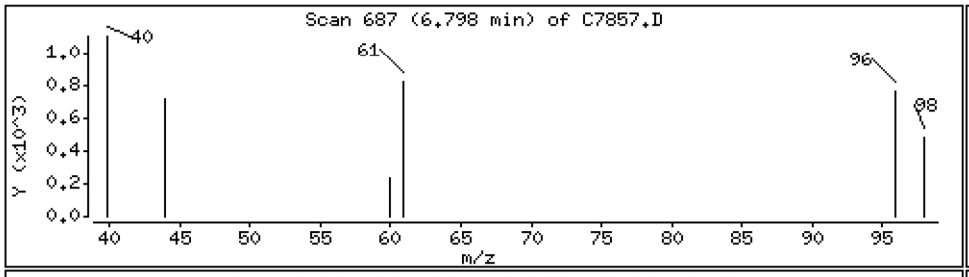
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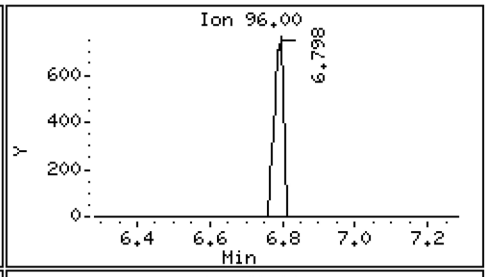
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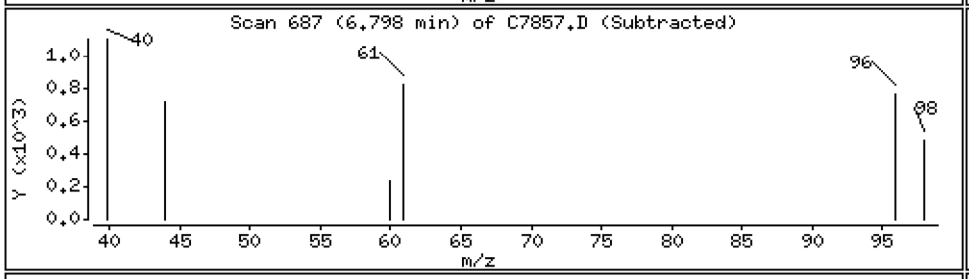
Client ID: FTA-MW-11-061714 Instrument: gcms-c.i

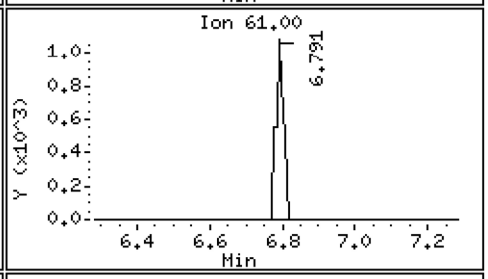
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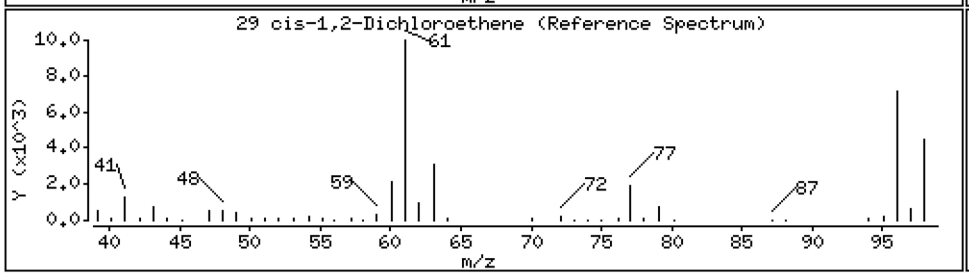
29 cis-1,2-Dichloroethene Concentration: 0.24 ug/l

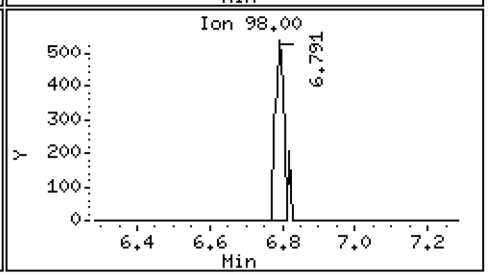












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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-8
Client ID: FTA-MW-12-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7858.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		95.2	%					
Toluene-d8		94.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-8
Client ID: FTA-MW-12-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7858.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		113.	%					
Dibromofluoromethane		100.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7858.D
Report Date: 15-Jul-2014 12:13

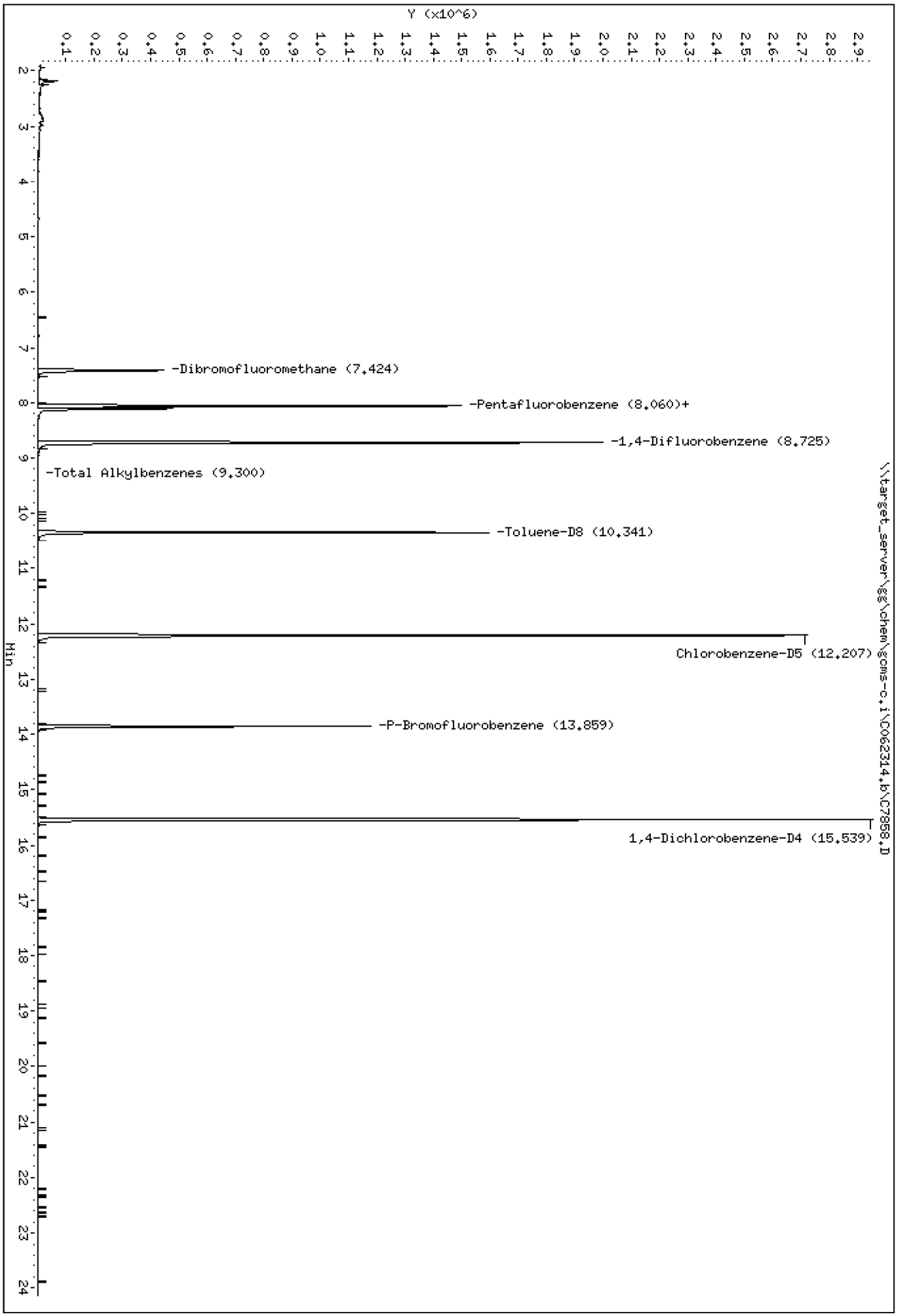
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Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7858.D
Lab Smp Id: SH4401-8 Client Smp ID: FTA-MW-12-061714
Inj Date : 23-JUN-2014 15:29 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-8
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.423	7.427	(0.921)	269830	50.0096	50.0	
* 42 Pentafluorobenzene	168	8.059	8.063	(1.000)	949525	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.109	8.113	(1.006)	310390	56.5554	56.6	
* 49 1,4-Difluorobenzene	114	8.724	8.721	(1.000)	1490050	50.0000		
$ 55 Toluene-D8	98	10.340	10.344	(1.185)	879601	47.2092	47.2	
* 66 Chlorobenzene-D5	117	12.206	12.210	(1.000)	1530543	50.0000		
$ 76 P-Bromofluorobenzene	95	13.858	13.855	(1.588)	380024	47.5799	47.6	
* 91 1,4-Dichlorobenzene-D4	152	15.538	15.542	(1.000)	836018	50.0000		


Y (x10^6)
Min
-Dibromofluoromethane (7.424)
-Pentafluorobenzene (8.060)+
-1,4-Difluorobenzene (8.725)
-Total Alkylbenzenes (9.300)
-Toluene-D8 (10.341)
Chlorobenzene-D5 (12.207)
-P-Bromofluorobenzene (13.859)
1,4-Dichlorobenzene-D4 (15.539)
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Data File: \\target_server\gc\chem\gcms-c.i\C062314.b\C7858.D
Date : 23-JUN-2014 15:29
Client ID: FTA-MW-12-061714
Sample Info: SH4401-8
Instrument: gcms-c.i

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ANALYTICAL SERVICES

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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-10
Client ID: FTA-MW-5-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7859.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		95.6	%					
Toluene-d8		94.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-10
Client ID: FTA-MW-5-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7859.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		113.	%					
Dibromofluoromethane		98.8	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7859.D
Report Date: 15-Jul-2014 12:13

Katahdin Analytical Services

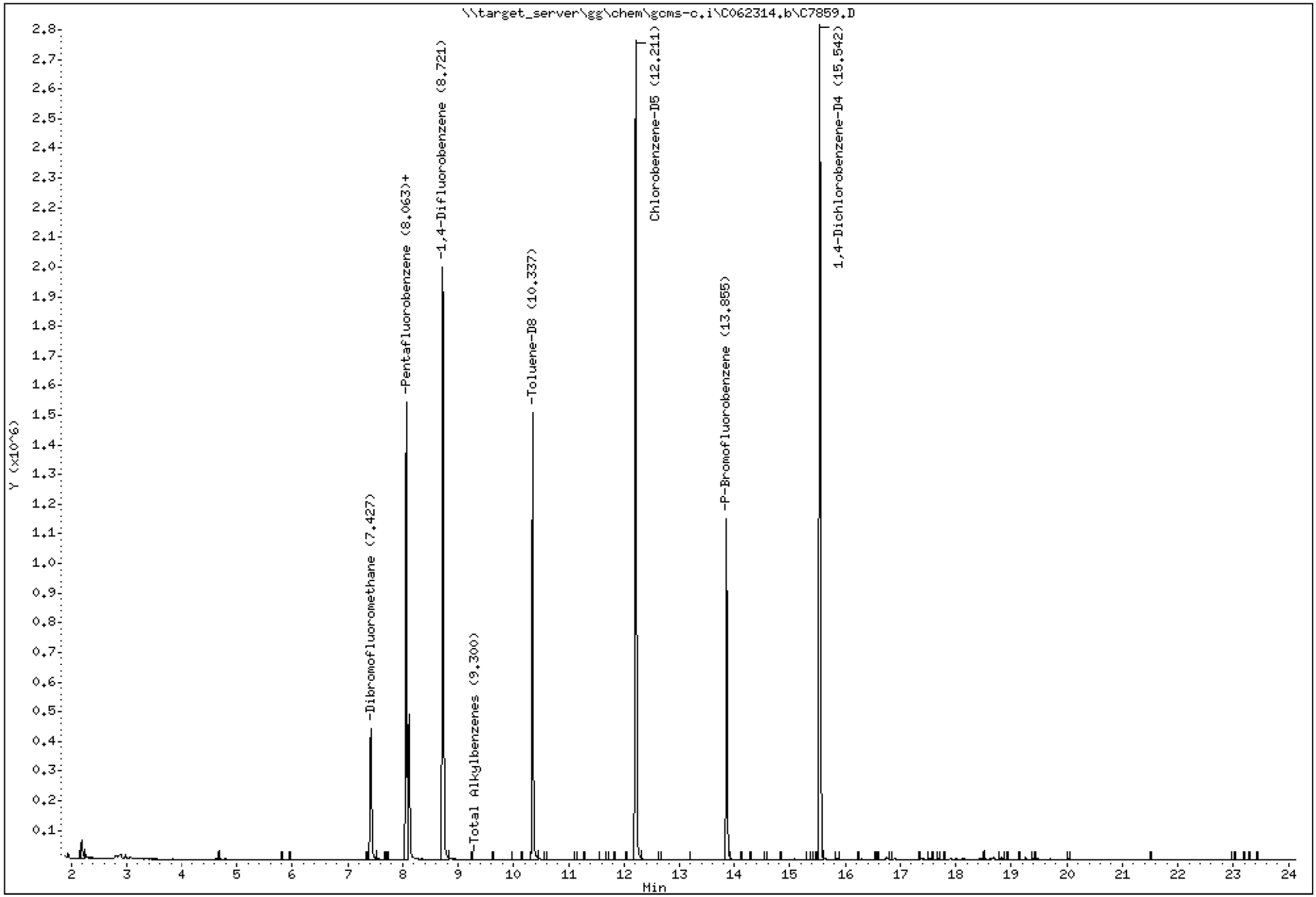
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Lab Smp Id: SH4401-10 Client Smp ID: FTA-MW-5-061814
Inj Date : 23-JUN-2014 15:59 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-10
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.427	7.427	(0.921)	266920	49.4295	49.4	
* 42 Pentafluorobenzene	168	8.063	8.063	(1.000)	950307	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.113	8.113	(1.006)	310086	56.4535	56.4	
* 49 1,4-Difluorobenzene	114	8.721	8.721	(1.000)	1504545	50.0000		
$ 55 Toluene-D8	98	10.344	10.344	(1.186)	887660	47.1827	47.2	
* 66 Chlorobenzene-D5	117	12.210	12.210	(1.000)	1505593	50.0000		
$ 76 P-Bromofluorobenzene	95	13.855	13.855	(1.589)	385568	47.8089	47.8	
* 91 1,4-Dichlorobenzene-D4	152	15.542	15.542	(1.000)	824483	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7859.D
Date : 23-JUN-2014 15:59
Client ID: FTA-MW-5-061814
Instrument: gcms-c.i
Sample Info: SH4401-10



Katahdin Analytical Services 1000048

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-12
Client ID: FTA-MW-203-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7860.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		98.6	%					
Toluene-d8		96.0	%					

600 Technology Way
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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-12
Client ID: FTA-MW-203-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7860.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		118.	%					
Dibromofluoromethane		102.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7860.D
Report Date: 15-Jul-2014 12:13

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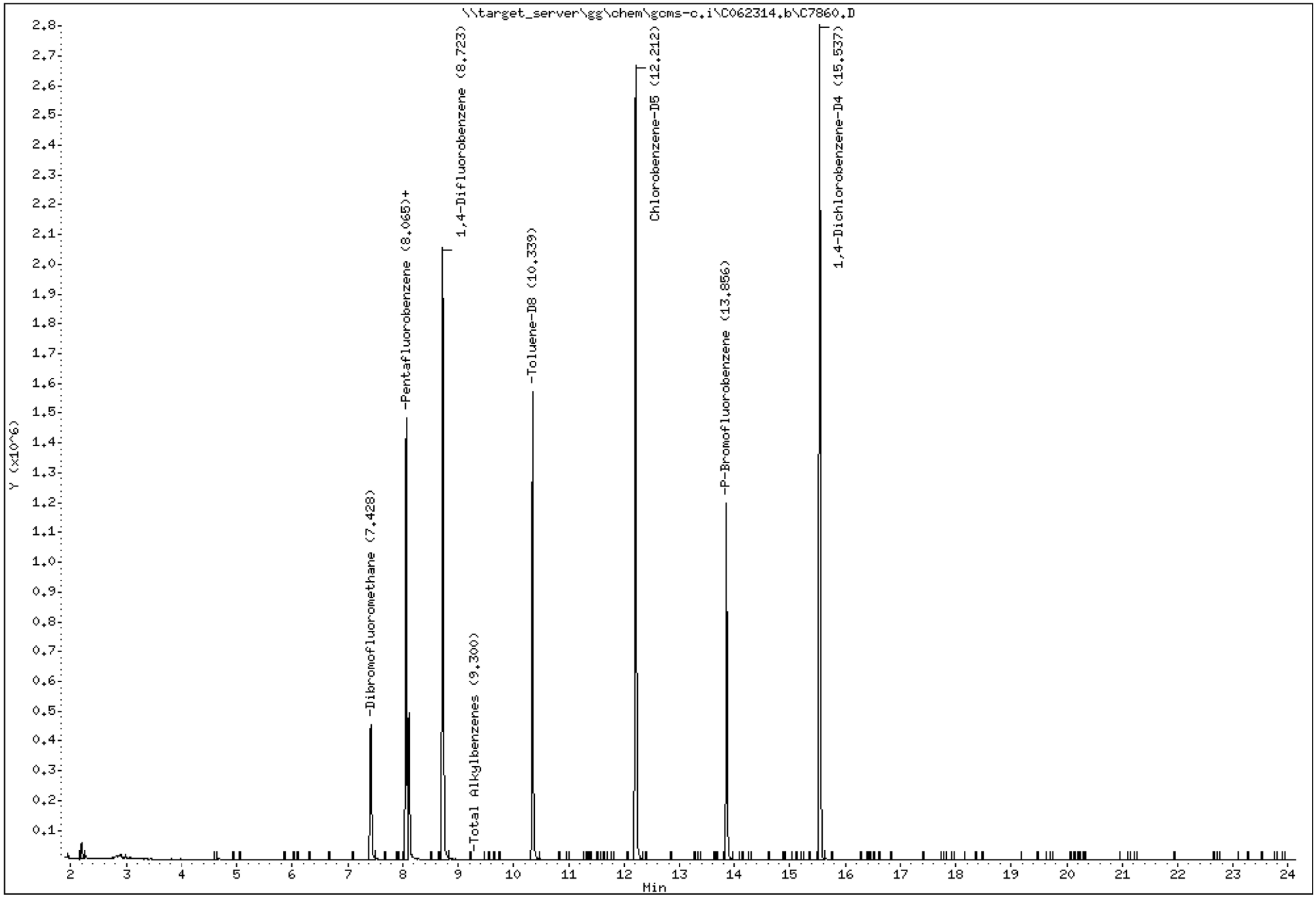
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Lab Smp Id: SH4401-12 Client Smp ID: FTA-MW-203-061814
Inj Date : 23-JUN-2014 16:30 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-12
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.428	7.427	(0.921)	273747	50.7959	50.8	
* 42 Pentafluorobenzene	168	8.064	8.063	(1.000)	948396	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.114	8.113	(1.006)	323700	59.0508	59.0	
* 49 1,4-Difluorobenzene	114	8.722	8.721	(1.000)	1503202	50.0000		
$ 55 Toluene-D8	98	10.338	10.344	(1.185)	902427	48.0105	48.0	
* 66 Chlorobenzene-D5	117	12.211	12.210	(1.000)	1518853	50.0000		
$ 76 P-Bromofluorobenzene	95	13.856	13.855	(1.589)	397178	49.2925	49.3	
* 91 1,4-Dichlorobenzene-D4	152	15.543	15.542	(1.000)	826115	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7860.D
Date : 23-JUN-2014 16:30
Client ID: FTA-MW-203-061814
Instrument: gcms-c.i
Sample Info: SH4401-12



Katahdin Analytical Services 1000052

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ANALYTICAL SERVICES

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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-14
Client ID: FTA-GW-DUP01-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7861.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		97.8	%					
Toluene-d8		95.4	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-14
Client ID: FTA-GW-DUP01-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7861.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		118.	%					
Dibromofluoromethane		103.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7861.D
Report Date: 15-Jul-2014 12:13

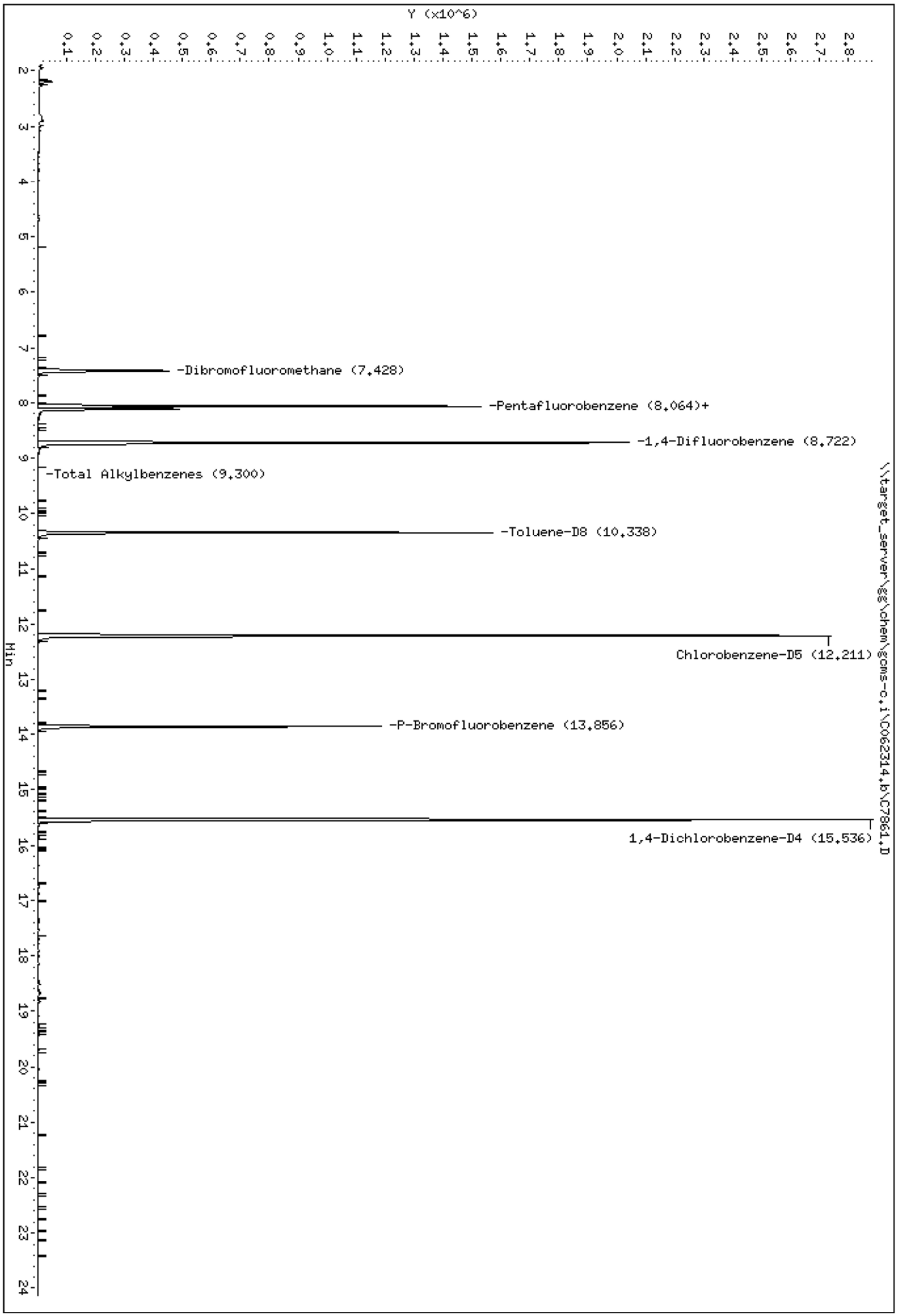
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Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7861.D
Lab Smp Id: SH4401-14 Client Smp ID: FTA-GW-DUP01-061814
Inj Date : 23-JUN-2014 17:00 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-14
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.428	7.427	(0.921)	274641	51.3514	51.4	
* 42 Pentafluorobenzene	168	8.064	8.063	(1.000)	941202	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.114	8.113	(1.006)	320311	58.8792	58.9	
* 49 1,4-Difluorobenzene	114	8.722	8.721	(1.000)	1501735	50.0000		
$ 55 Toluene-D8	98	10.338	10.344	(1.185)	896111	47.7211	47.7	
* 66 Chlorobenzene-D5	117	12.211	12.210	(1.000)	1523667	50.0000		
$ 76 P-Bromofluorobenzene	95	13.856	13.855	(1.589)	393653	48.9028	48.9	
* 91 1,4-Dichlorobenzene-D4	152	15.543	15.542	(1.000)	841747	50.0000		


Y (x10^6)
0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1.0 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8
2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
Min
-Dibromofluoromethane (7.428)
-Pentafluorobenzene (8.064)+
-1,4-Difluorobenzene (8.722)
-Total Alkylbenzenes (9.300)
-Toluene-D8 (10.338)
Chlorobenzene-D5 (12.211)
-P-Bromofluorobenzene (13.856)
1,4-Dichlorobenzene-D4 (15.536)
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Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7861.D
Date : 23-JUN-2014 17:00
Client ID: FTA-GW-DUP01-061814
Sample Info: SH4401-14
Instrument: gcms-c.i

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ANALYTICAL SERVICES

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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-16
Client ID: FTA-MW-218-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7862.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		95.1	%					
Toluene-d8		92.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-16
Client ID: FTA-MW-218-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7862.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		114.	%					
Dibromofluoromethane		99.0	%					

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7862.D
Report Date: 15-Jul-2014 12:13

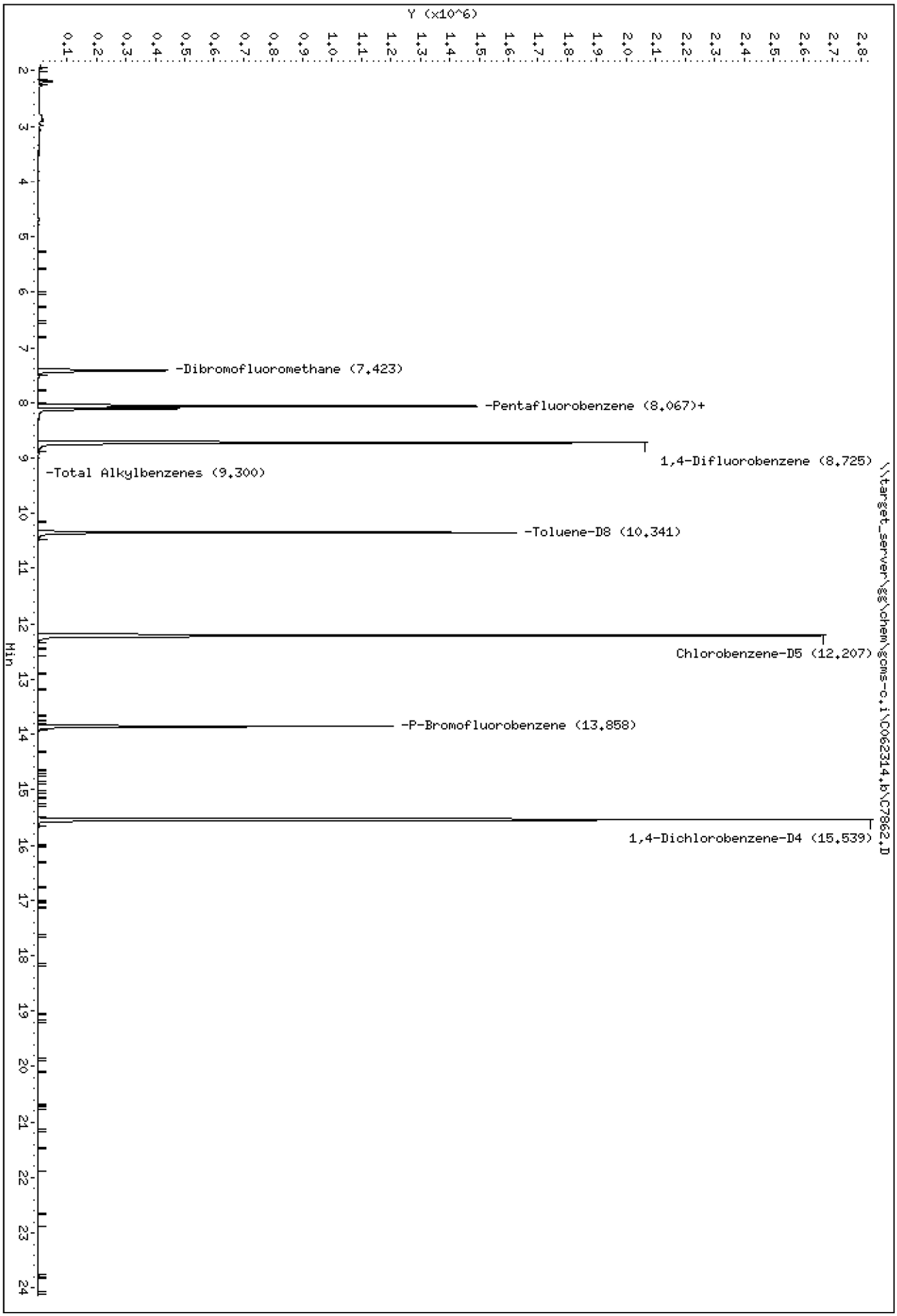
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7862.D
Lab Smp Id: SH4401-16 Client Smp ID: FTA-MW-218-061814
Inj Date : 23-JUN-2014 17:31 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-16
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.423	7.427	(0.920)	273970	49.5259	49.5	
* 42 Pentafluorobenzene	168	8.066	8.063	(1.000)	973510	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.109	8.113	(1.005)	319437	56.7698	56.8	
* 49 1,4-Difluorobenzene	114	8.724	8.721	(1.000)	1533190	50.0000		
$ 55 Toluene-D8	98	10.340	10.344	(1.185)	890373	46.4427	46.4	
* 66 Chlorobenzene-D5	117	12.213	12.210	(1.000)	1554924	50.0000		
$ 76 P-Bromofluorobenzene	95	13.858	13.855	(1.588)	390657	47.5349	47.5	
* 91 1,4-Dichlorobenzene-D4	152	15.538	15.542	(1.000)	794826	50.0000		



Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7862.D
Date : 23-JUN-2014 17:31
Client ID: FTA-MW-218-061814
Sample Info: SH4401-16

Instrument: gcms-c.i

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-18
Client ID: FTA-MW-206-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7863.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene		22	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene		8.2	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		97.0	%					
Toluene-d8		95.7	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-18
Client ID: FTA-MW-206-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7863.D

Sample Date: 18-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		116.	%					
Dibromofluoromethane		103.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7863.D
Report Date: 15-Jul-2014 12:13

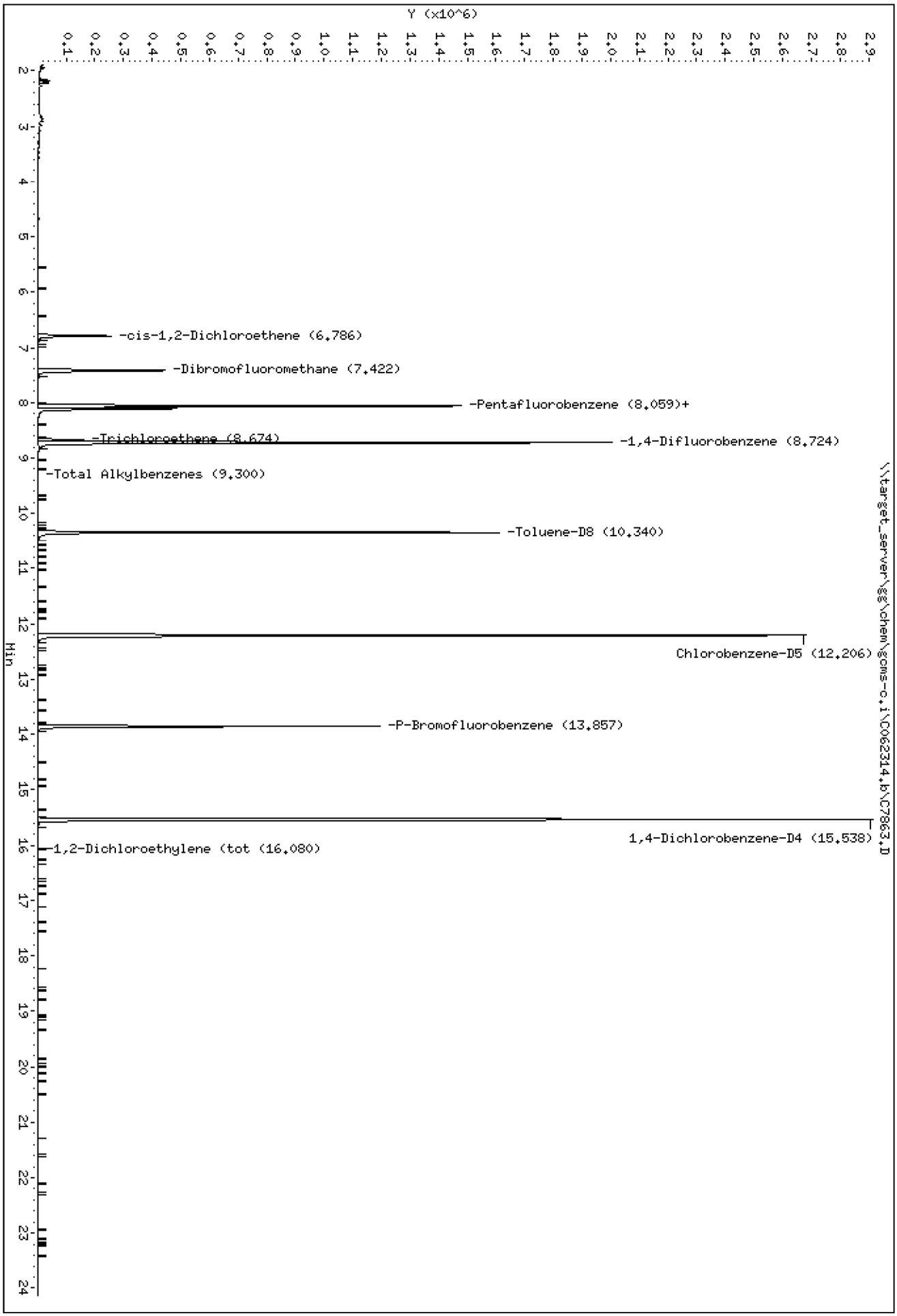
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7863.D
Lab Smp Id: SH4401-18 Client Smp ID: FTA-MW-206-061814
Inj Date : 23-JUN-2014 18:01 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-18
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	29 cis-1,2-Dichloroethene	96	6.785	6.783	(0.841)	120658	21.8351	21.8	
M	30 1,2-Dichloroethylene (total)	96				120658	21.8351	21.8	
$	37 Dibromofluoromethane	113	7.422	7.427	(0.920)	279300	51.7450	51.7	
*	42 Pentafluorobenzene	168	8.065	8.063	(1.000)	949887	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.108	8.113	(1.005)	319348	58.1654	58.2	
	48 Trichloroethene	95	8.673	8.670	(0.994)	45746	8.21437	8.2	
*	49 1,4-Difluorobenzene	114	8.723	8.721	(1.000)	1497262	50.0000		
$	55 Toluene-D8	98	10.339	10.344	(1.185)	896110	47.8636	47.9	
*	66 Chlorobenzene-D5	117	12.205	12.210	(1.000)	1500638	50.0000		
$	76 P-Bromofluorobenzene	95	13.857	13.855	(1.588)	389126	48.4848	48.5	
*	91 1,4-Dichlorobenzene-D4	152	15.537	15.542	(1.000)	826344	50.0000		


Y (x10^6)
Min
-cis-1,2-Dichloroethene (6.786)
-Dibromofluoromethane (7.422)
-Pentafluorobenzene (8.059)+
-Trichloroethene (8.674)
-1,4-Difluorobenzene (8.724)
-Total Alkylbenzenes (9.300)
-Toluene-D8 (10.340)
Chlorobenzene-D5 (12.206)
-P-Bromofluorobenzene (13.857)
1,4-Dichlorobenzene-D4 (15.538)
-1,2-Dichloroethylene (tot (16.080)
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Date : 23-JUN-2014 18:01
Client ID: FTA-MW-206-061814
Sample Info: SH4401-18
Instrument: gcms-c.i

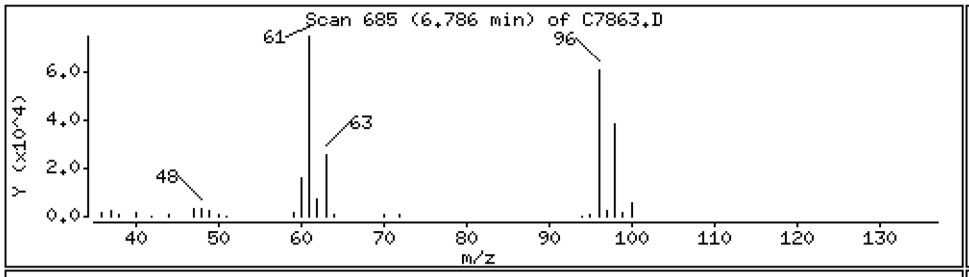
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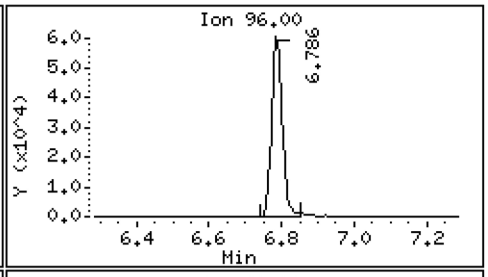
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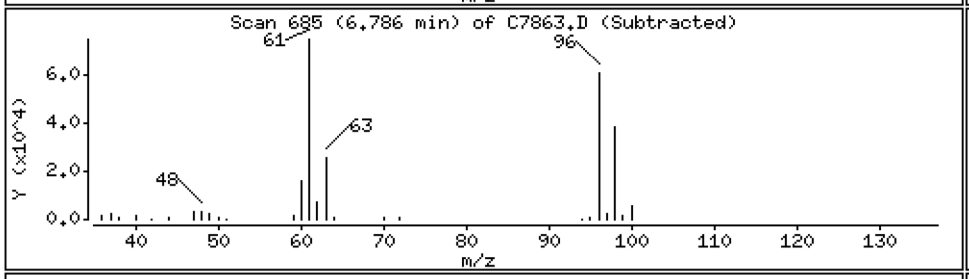
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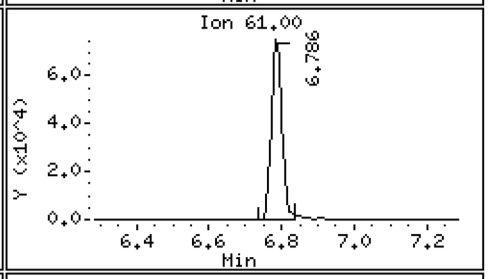
Sample Info: SH4401-18

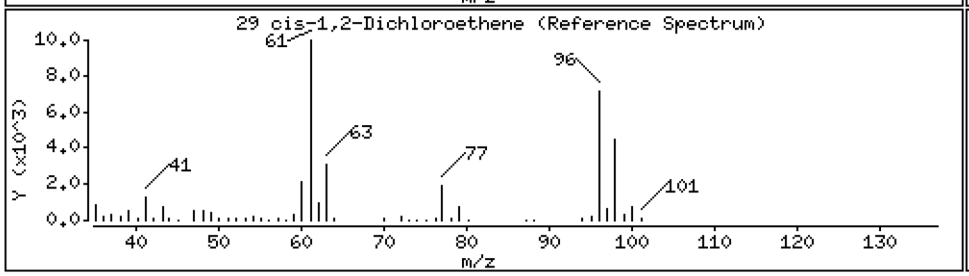
29 cis-1,2-Dichloroethene Concentration: 21.8 ug/l

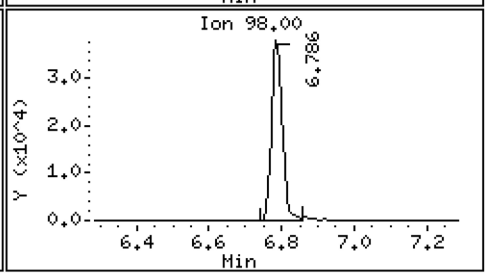




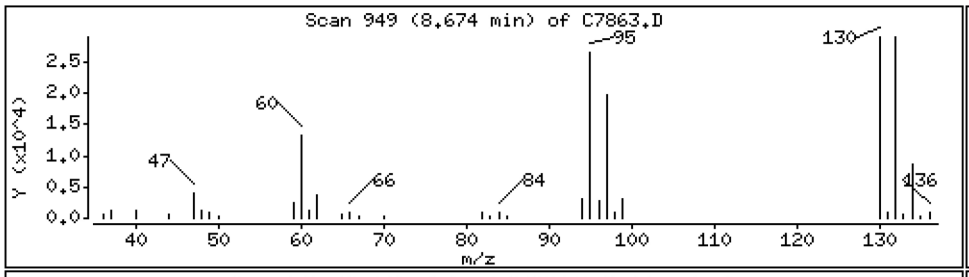


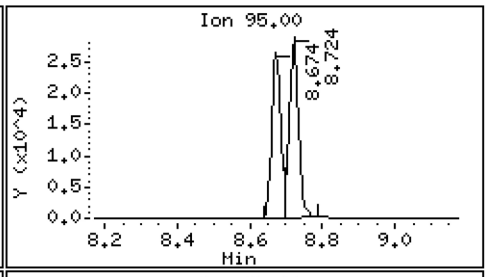


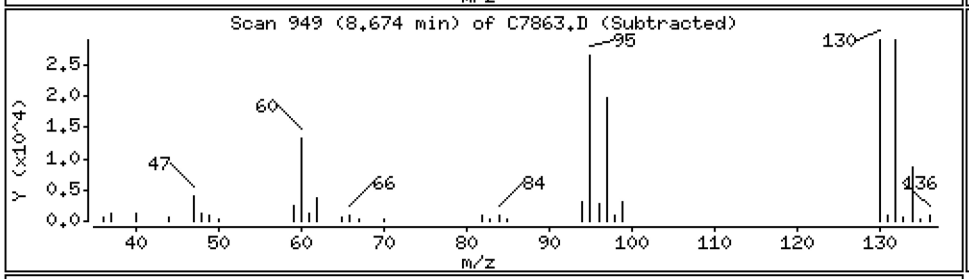


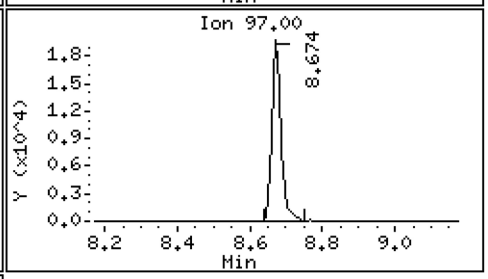


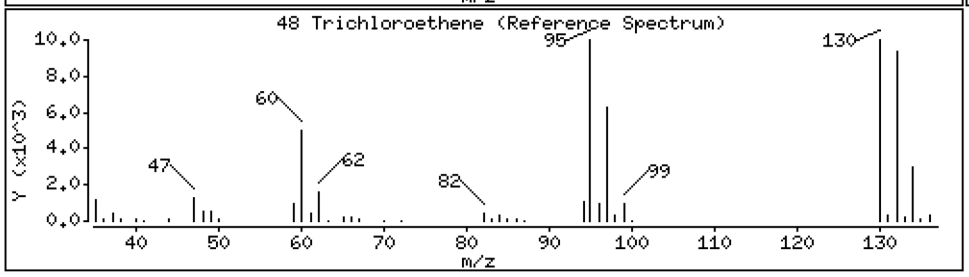
48 Trichloroethene Concentration: 8.2 ug/l











Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-20
Client ID: FTA-MW-14-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7864.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		93.7	%					
Toluene-d8		96.2	%					

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http://www.katahdinlab.com

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4401-20
Client ID: FTA-MW-14-061714
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7864.D

Sample Date: 17-JUN-14
Received Date: 19-JUN-14
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4	*	120.	%					
Dibromofluoromethane		103.	%					

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http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7864.D
Report Date: 15-Jul-2014 12:13

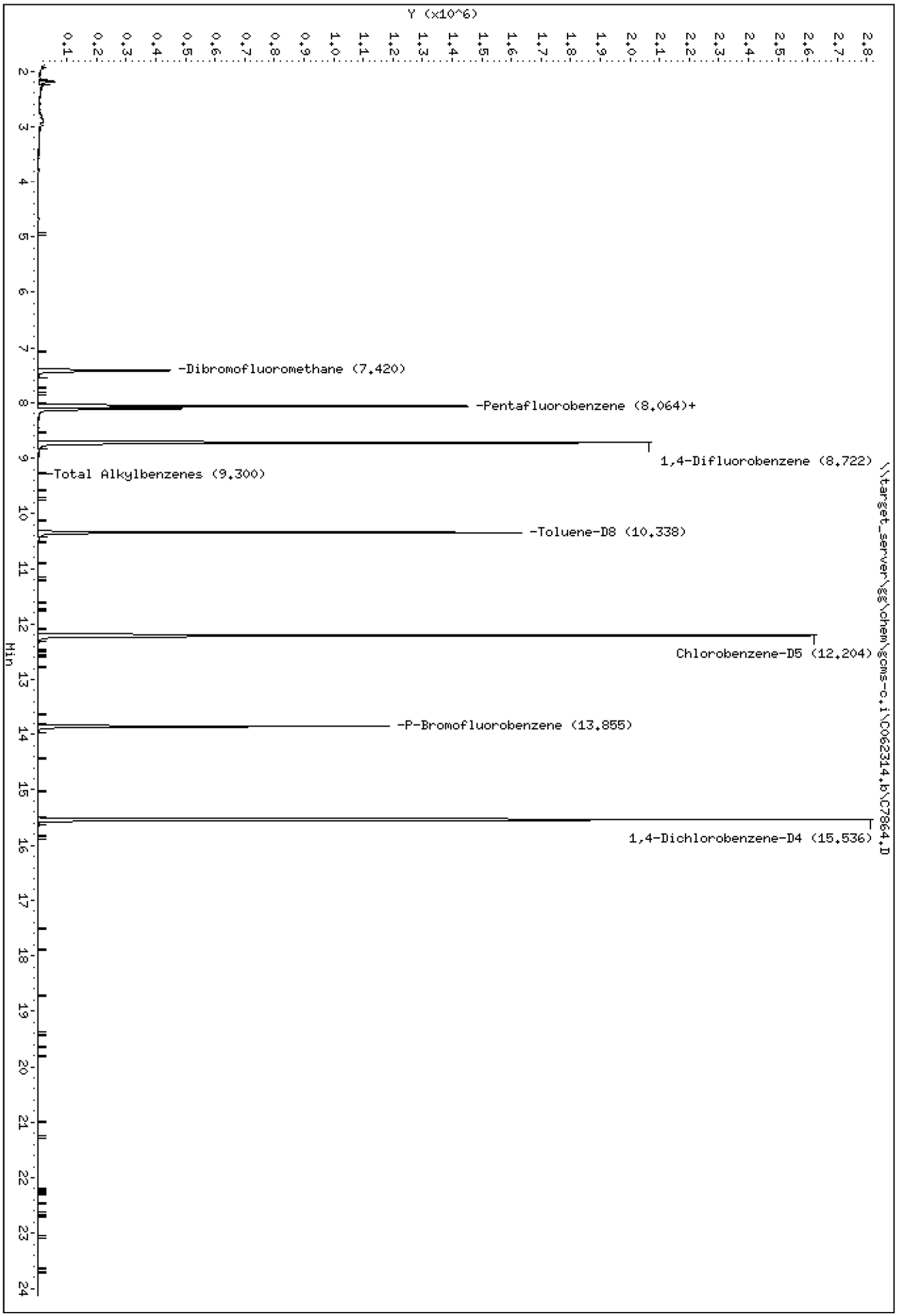
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7864.D
Lab Smp Id: SH4401-20 Client Smp ID: FTA-MW-14-061714
Inj Date : 23-JUN-2014 18:33 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4401-20
Misc Info : WG145261,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.420	7.427	(0.920)	277013	51.4576	51.4	
* 42 Pentafluorobenzene	168	8.063	8.063	(1.000)	947370	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.113	8.113	(1.006)	327718	59.8485	59.8	
* 49 1,4-Difluorobenzene	114	8.721	8.721	(1.000)	1492605	50.0000		
$ 55 Toluene-D8	98	10.337	10.344	(1.185)	897818	48.1044	48.1	
* 66 Chlorobenzene-D5	117	12.210	12.210	(1.000)	1509216	50.0000		
$ 76 P-Bromofluorobenzene	95	13.855	13.855	(1.589)	375007	46.8714	46.9	
* 91 1,4-Dichlorobenzene-D4	152	15.535	15.542	(1.000)	785130	50.0000		


Y (x10^6)
Min
-Dibromofluoromethane (7.420)
-Pentafluorobenzene (8.064)+
1,4-Difluorobenzene (8.722)
Total Alkylbenzenes (9.300)
-Toluene-D8 (10.338)
Chlorobenzene-D5 (12.204)
-P-Bromofluorobenzene (13.855)
1,4-Dichlorobenzene-D4 (15.536)
Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7864.D
Date : 23-JUN-2014 18:33
Client ID: FTA-MW-14-061714
Sample Info: SH4401-20
Instrument: gcms-c.i
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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-1
Client ID: FTA-GW-TB02-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7874.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		96.3	%					
Toluene-d8		98.6	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-1
Client ID: FTA-GW-TB02-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7874.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		119.	%					
Dibromofluoromethane		99.8	%					

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P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7874.D
Report Date: 15-Jul-2014 12:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7874.D
Lab Smp Id: SH4521-1 Client Smp ID: FTA-GW-TB02-061814
Inj Date : 24-JUN-2014 10:56 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4521-1
Misc Info : WG145321,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

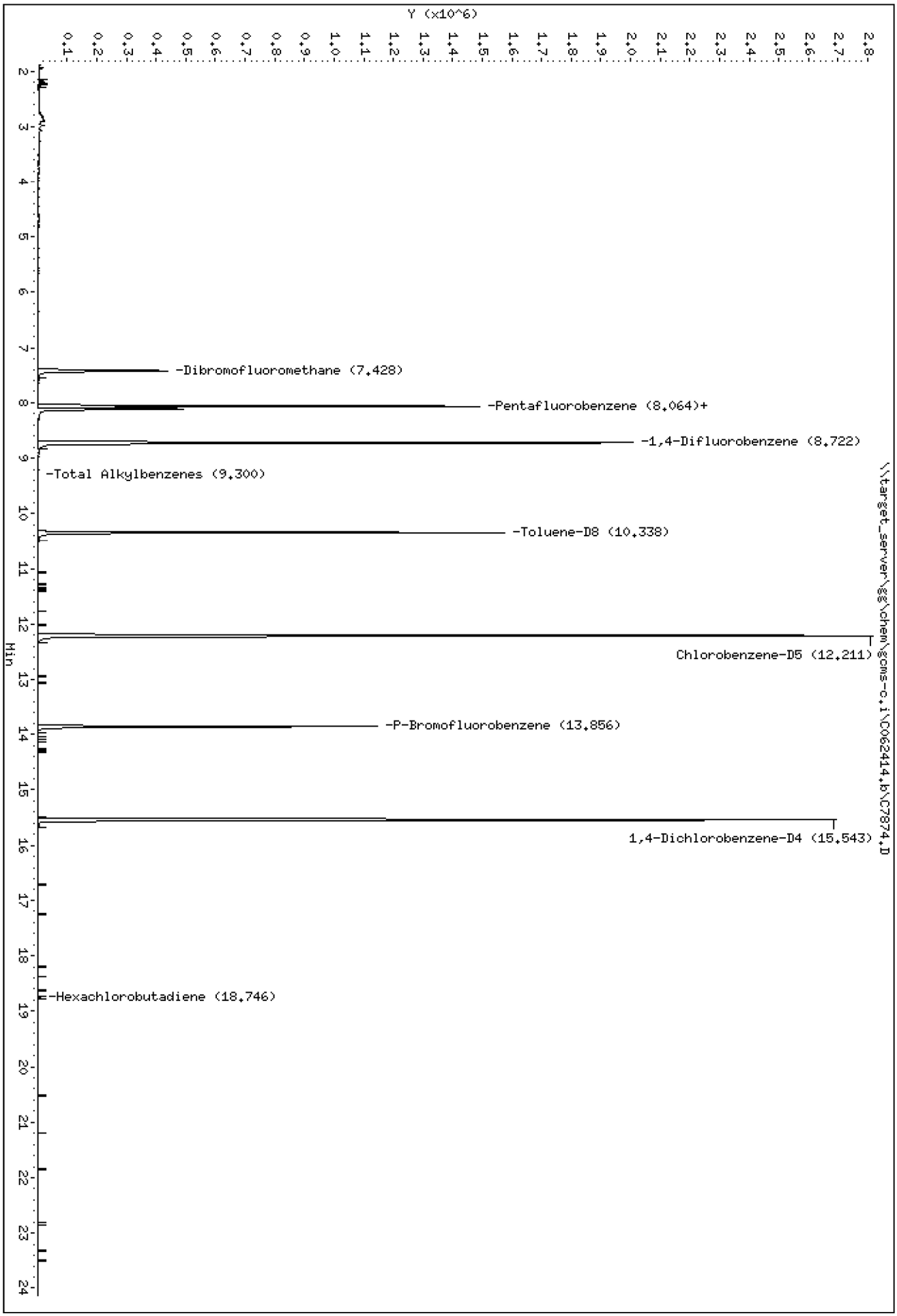
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.427	7.427	(0.921)	258371	49.8838	49.9	
* 42 Pentafluorobenzene	168	8.063	8.063	(1.000)	911494	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.114	8.113	(1.006)	313439	59.4938	59.5	
* 49 1,4-Difluorobenzene	114	8.721	8.721	(1.000)	1465357	50.0000		
$ 55 Toluene-D8	98	10.337	10.344	(1.185)	903739	49.3221	49.3	
* 66 Chlorobenzene-D5	117	12.211	12.210	(1.000)	1577419	50.0000		
$ 76 P-Bromofluorobenzene	95	13.855	13.855	(1.589)	378173	48.1460	48.1	
* 91 1,4-Dichlorobenzene-D4	152	15.543	15.542	(1.000)	795688	50.0000		
98 Hexachlorobutadiene	225	18.746	18.746	(1.206)	2068	0.52936	0.53(aH)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
H - Operator selected an alternate compound hit.


Y (x10^6)
Min
-Dibromofluoromethane (7.428)
-Pentafluorobenzene (8.064)+
-1,4-Difluorobenzene (8.722)
-Total Alkylbenzenes (9.300)
-Toluene-D8 (10.338)
Chlorobenzene-D5 (12.211)
-P-Bromofluorobenzene (13.856)
1,4-Dichlorobenzene-D4 (15.543)
-Hexachlorobutadiene (18.746)
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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7874.D
Date : 24-JUN-2014 10:56
Client ID: FTA-GW-TB02-061814
Sample Info: SH4521-1
Instrument: gcms-c.i

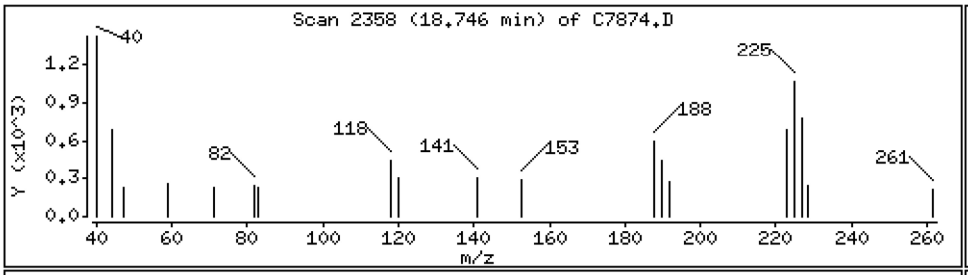
Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7874.D

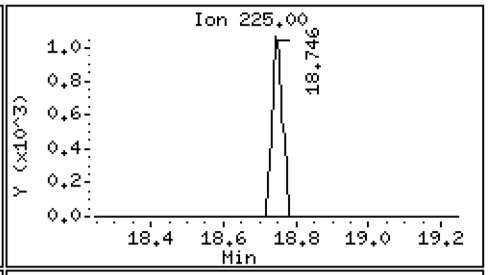
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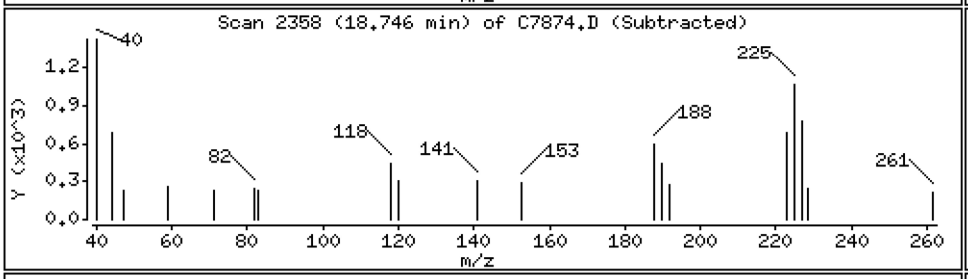
Client ID: FTA-GW-TB02-061814 Instrument: gcms-c.i

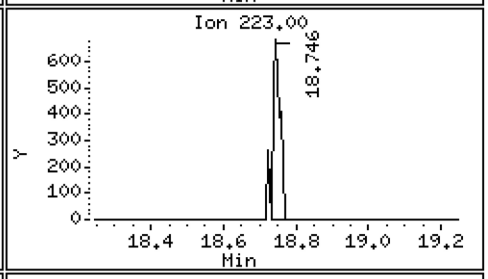
Sample Info: SH4521-1

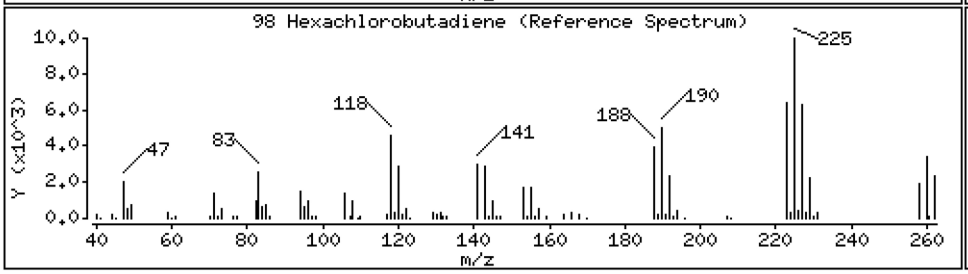
98 Hexachlorobutadiene Concentration: 0.53 ug/l

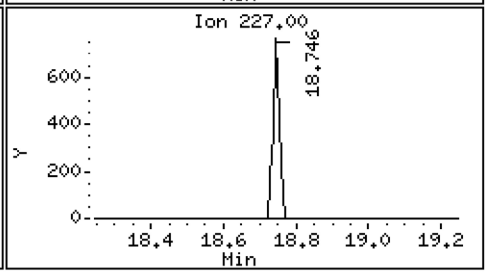












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-2
Client ID: FTA-MW-208-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7876.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		88.7	%					
Toluene-d8		98.5	%					

600 Technology Way
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Tel:(207) 874-2400 Fax:(207) 775-4029

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-2
Client ID: FTA-MW-208-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7876.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4	*	120.	%					
Dibromofluoromethane		106.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7876.D
Report Date: 15-Jul-2014 12:24

Katahdin Analytical Services

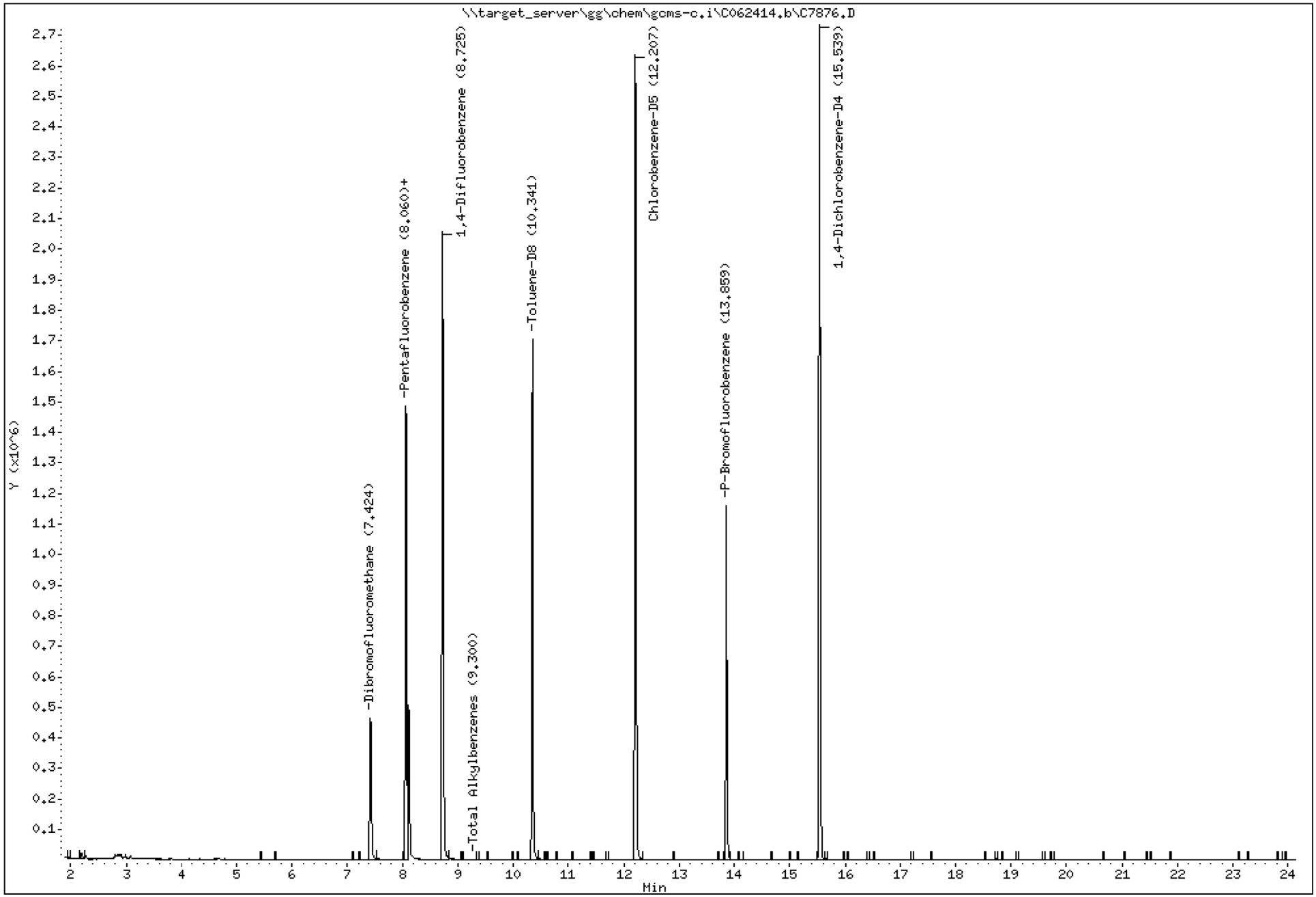
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Lab Smp Id: SH4521-2 Client Smp ID: FTA-MW-208-061814
Inj Date : 24-JUN-2014 11:57 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4521-2
Misc Info : WG145321,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.424	7.427	(0.920)	286910	52.7584	52.8	
* 42 Pentafluorobenzene	168	8.067	8.063	(1.000)	957025	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.110	8.113	(1.005)	333091	60.2161	60.2	
* 49 1,4-Difluorobenzene	114	8.725	8.721	(1.000)	1530270	50.0000		
$ 55 Toluene-D8	98	10.341	10.344	(1.185)	942677	49.2648	49.3	
* 66 Chlorobenzene-D5	117	12.207	12.210	(1.000)	1444476	50.0000		
$ 76 P-Bromofluorobenzene	95	13.859	13.855	(1.588)	363758	44.3463	44.3	
* 91 1,4-Dichlorobenzene-D4	152	15.539	15.542	(1.000)	747475	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7876.D
Date : 24-JUN-2014 11:57
Client ID: FTA-MW-208-061814 Instrument: gcms-c.i
Sample Info: SH4521-2



Katahdin Analytical Services 1000078

Katahdin
ANALYTICAL SERVICES

ACCREDITED IN ACCORDANCE WITH nelac
Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-4
Client ID: FTA-MW-1-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7877.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	J	3.0	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		90.0	%					
Toluene-d8		88.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-4
Client ID: FTA-MW-1-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7877.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4	*	126.	%					
Dibromofluoromethane		102.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7877.D
Report Date: 15-Jul-2014 12:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7877.D
Lab Smp Id: SH4521-4 Client Smp ID: FTA-MW-1-061814
Inj Date : 24-JUN-2014 12:28 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4521-4
Misc Info : WG145321,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

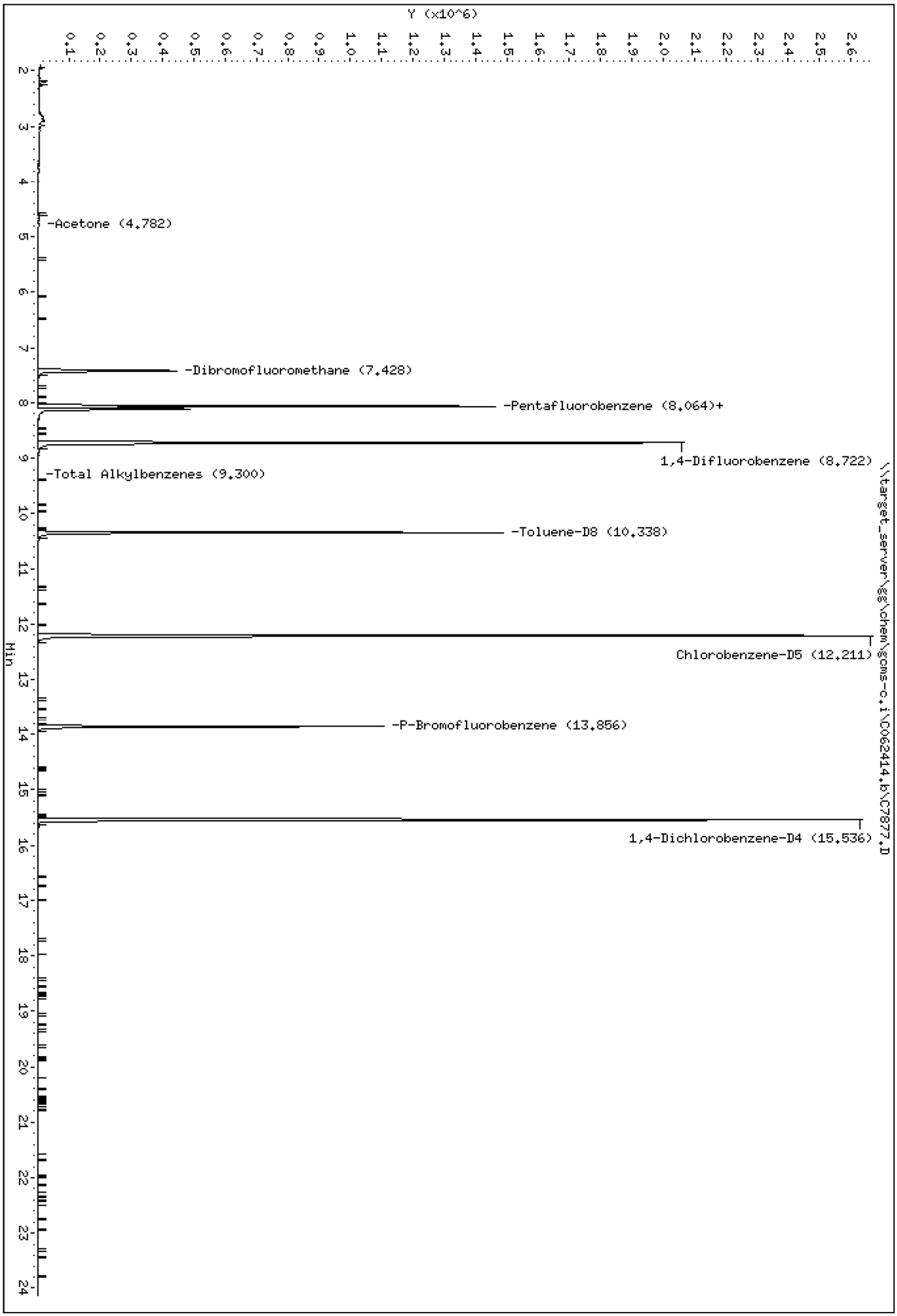
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.782	4.774	(0.593)	3779	2.98251	3.0(aM)	M9
$ 37 Dibromofluoromethane	113	7.427	7.427	(0.921)	260189	51.2008	51.2	
* 42 Pentafluorobenzene	168	8.064	8.063	(1.000)	894297	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.114	8.113	(1.006)	325570	62.9847	63.0	
* 49 1,4-Difluorobenzene	114	8.722	8.721	(1.000)	1512860	50.0000		
$ 55 Toluene-D8	98	10.337	10.344	(1.185)	840771	44.4448	44.4	
* 66 Chlorobenzene-D5	117	12.211	12.210	(1.000)	1420608	50.0000		
$ 76 P-Bromofluorobenzene	95	13.855	13.855	(1.589)	364861	44.9927	45.0	
* 91 1,4-Dichlorobenzene-D4	152	15.543	15.542	(1.000)	763350	50.0000		

DJP
12:42 pm, Jul 15, 2014

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7877.D
Date : 24-JUN-2014 12:28
Client ID: FTA-MW-1-061814
Sample Info: SH4521-4

Instrument: gcms-c.i

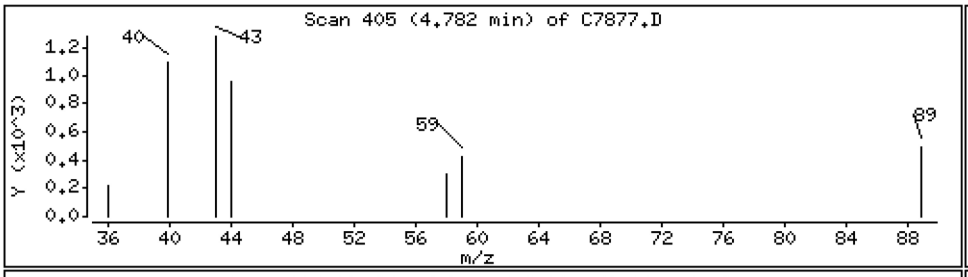
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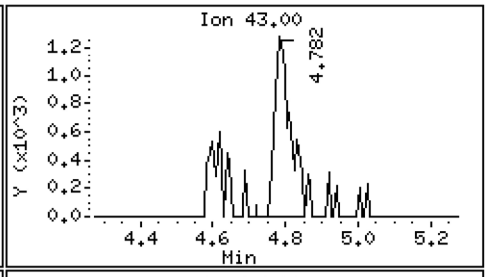
Date : 24-JUN-2014 12:28

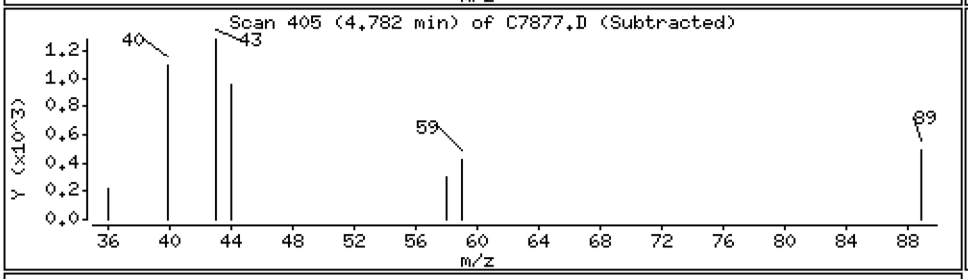
Client ID: FTA-MW-1-061814 Instrument: gcms-c.i

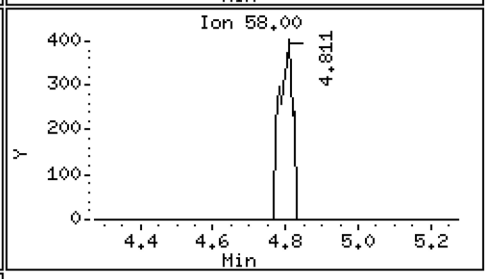
Sample Info: SH4521-4

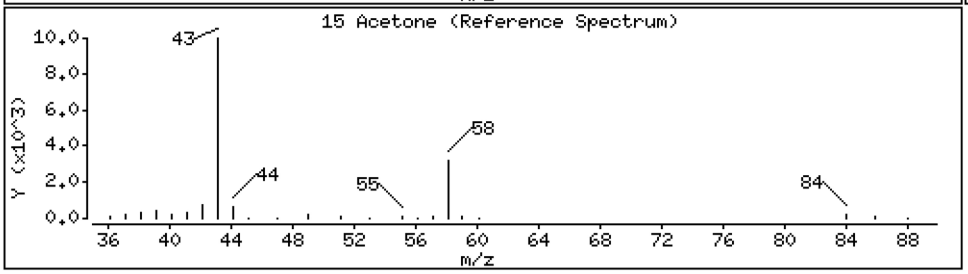
15 Acetone Concentration: 3.0 ug/l







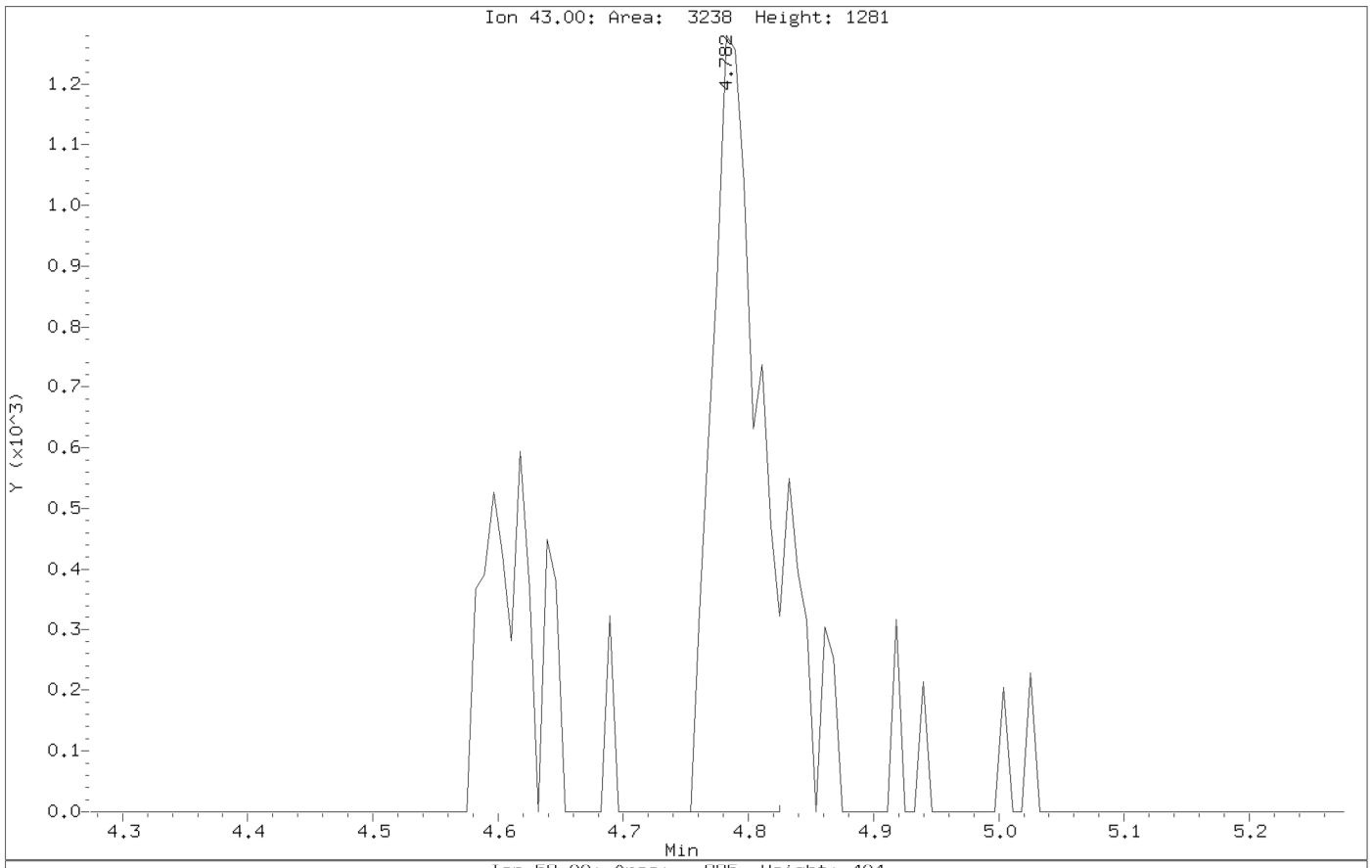


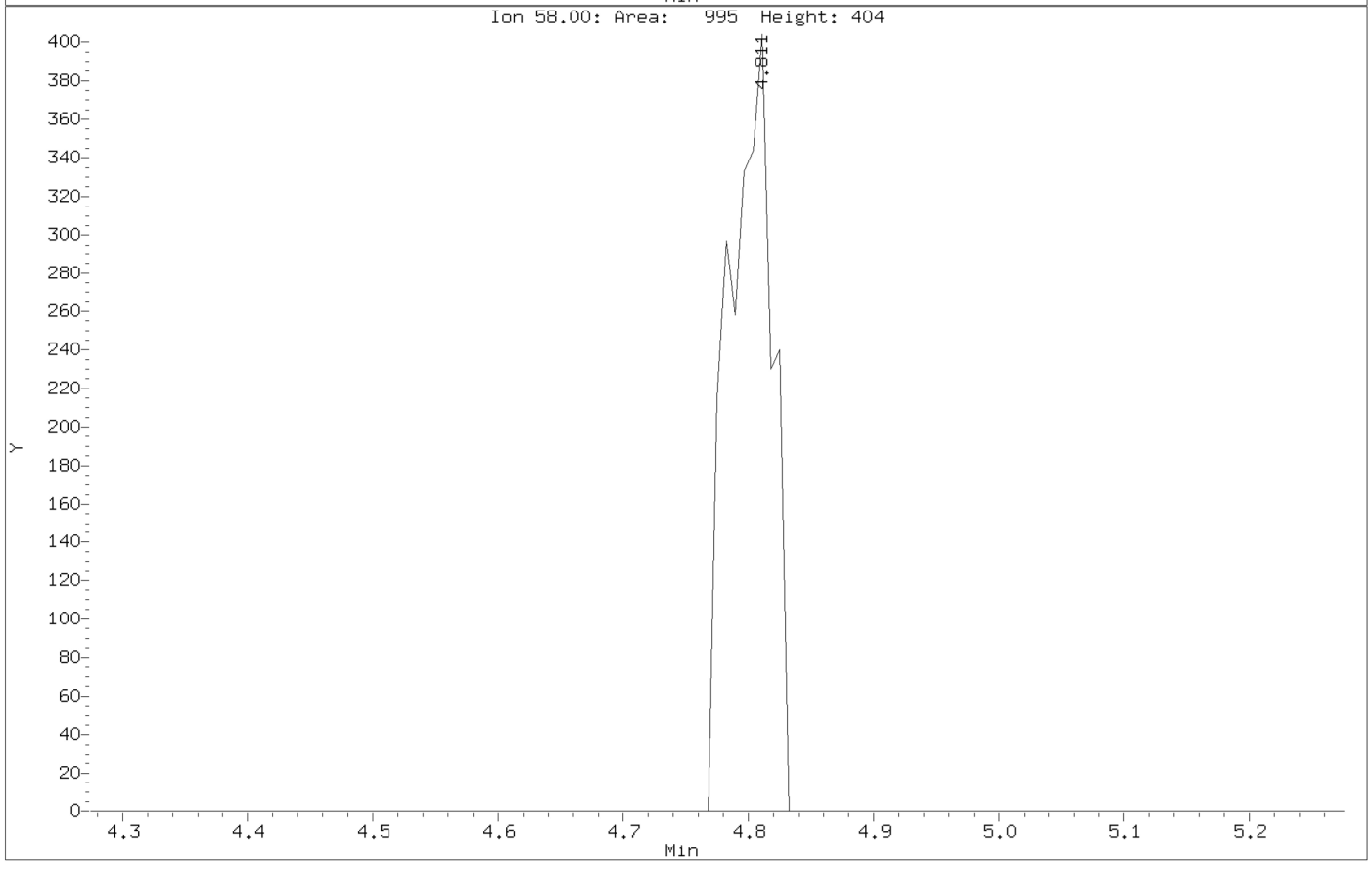


Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7877.D
Injection Date: 24-JUN-2014 12:28
Instrument: gcms-c.i
Client Sample ID: FTA-MW-1-061814

Compound: Acetone
CAS Number: 67-64-1

BEFORE MANUAL INTEGRATION

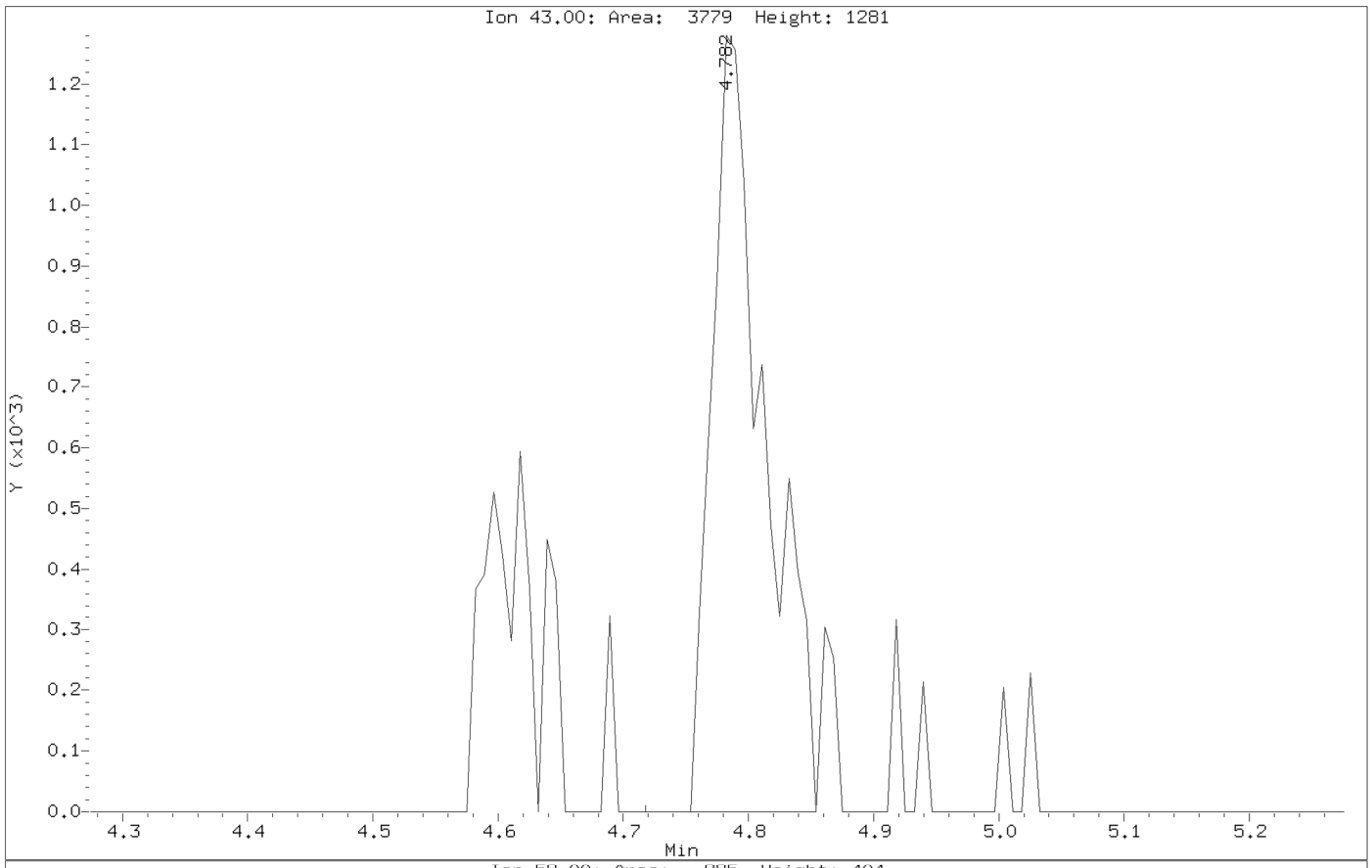


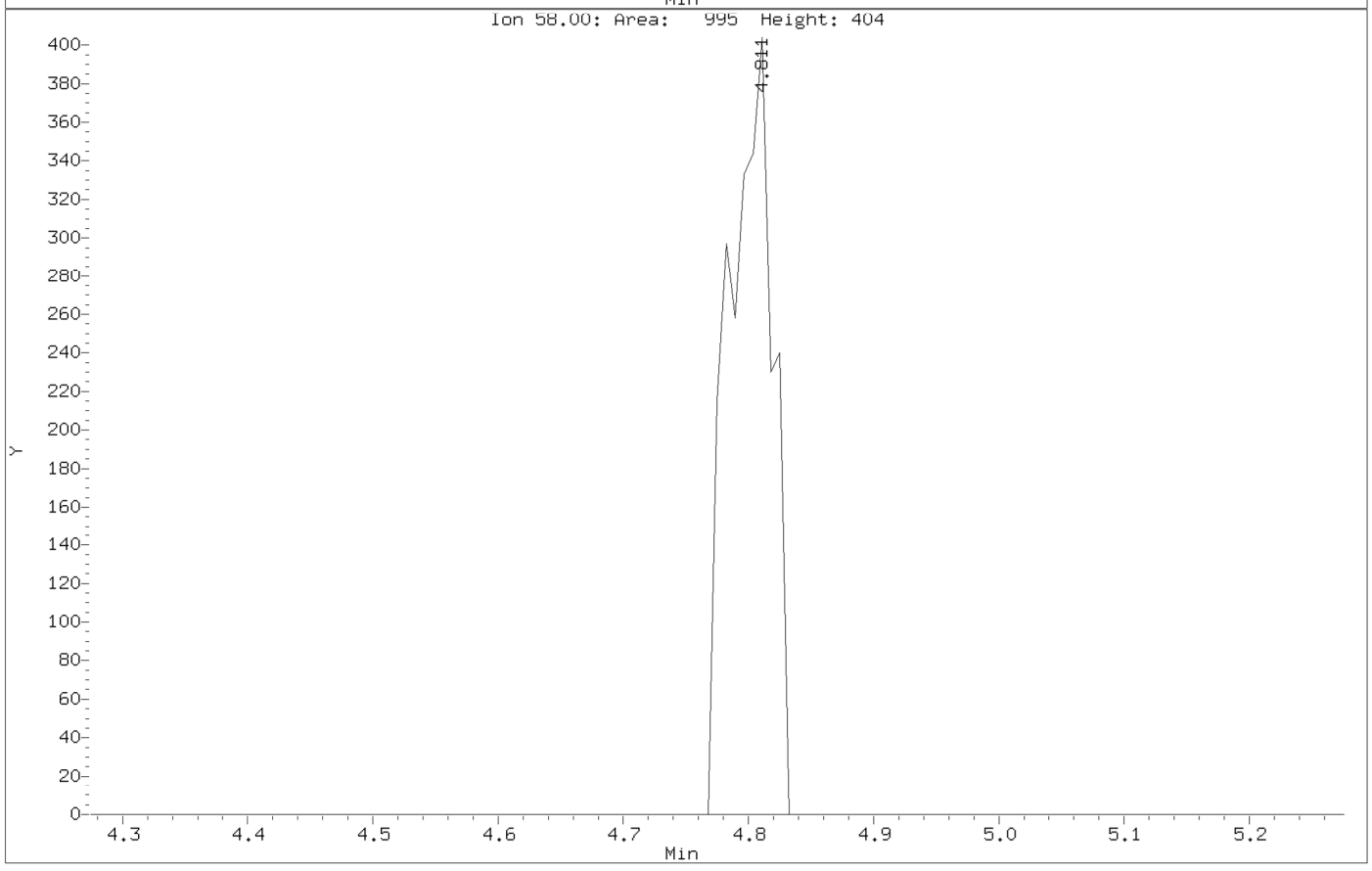


Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7877.D
Injection Date: 24-JUN-2014 12:28
Instrument: gcms-c.i
Client Sample ID: FTA-MW-1-061814

Compound: Acetone
CAS Number: 67-64-1

AFTER MANUAL INTEGRATION





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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-6
Client ID: FTA-GW-DUP02-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7878.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		93.0	%					
Toluene-d8		97.9	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-6
Client ID: FTA-GW-DUP02-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7878.D

Sample Date: 18-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4	*	123.	%					
Dibromofluoromethane		107.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7878.D
Report Date: 15-Jul-2014 12:24

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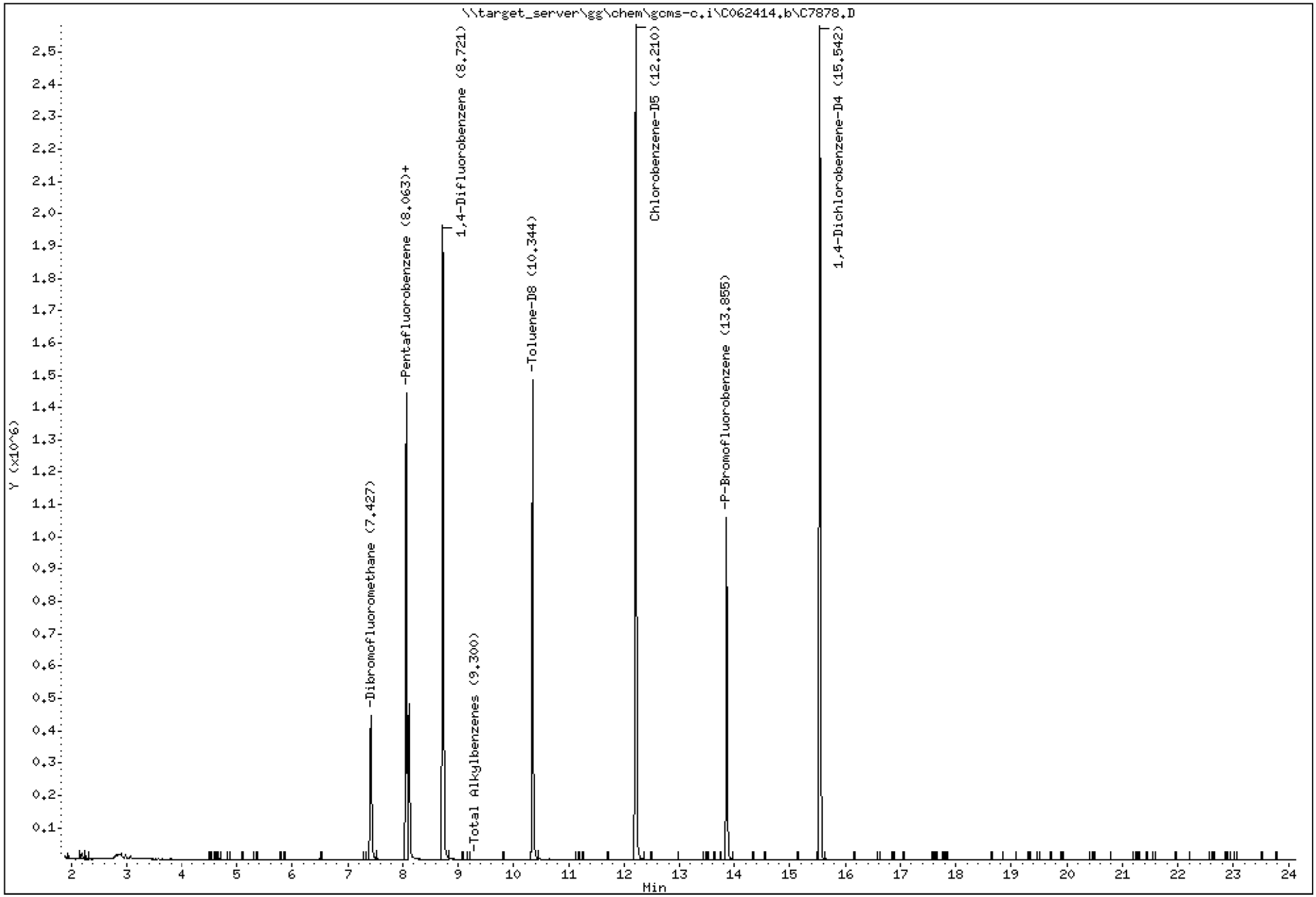
Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7878.D
Lab Smp Id: SH4521-6 Client Smp ID: FTA-GW-DUP02-061814
Inj Date : 24-JUN-2014 12:58 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4521-6
Misc Info : WG145321,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.426	7.427	(0.921)	262680	53.3998	53.4	
* 42 Pentafluorobenzene	168	8.063	8.063	(1.000)	865679	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.113	8.113	(1.006)	307065	61.3686	61.4	
* 49 1,4-Difluorobenzene	114	8.721	8.721	(1.000)	1412937	50.0000		
$ 55 Toluene-D8	98	10.344	10.344	(1.186)	865224	48.9719	49.0	
* 66 Chlorobenzene-D5	117	12.210	12.210	(1.000)	1387385	50.0000		
$ 76 P-Bromofluorobenzene	95	13.854	13.855	(1.589)	352335	46.5207	46.5	
* 91 1,4-Dichlorobenzene-D4	152	15.542	15.542	(1.000)	736547	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7878.D
Date : 24-JUN-2014 12:58
Client ID: FTA-GW-DUP02-061814 Instrument: gcms-c.i
Sample Info: SH4521-6



Katahdin Analytical Services 1000089

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ANALYTICAL SERVICES

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Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-8
Client ID: FTA-MW-210-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7879.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane		1.0	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane		1.0	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		96.6	%					
Toluene-d8		95.2	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-8
Client ID: FTA-MW-210-061814
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7879.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		118.	%					
Dibromofluoromethane		107.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7879.D
Report Date: 15-Jul-2014 12:24

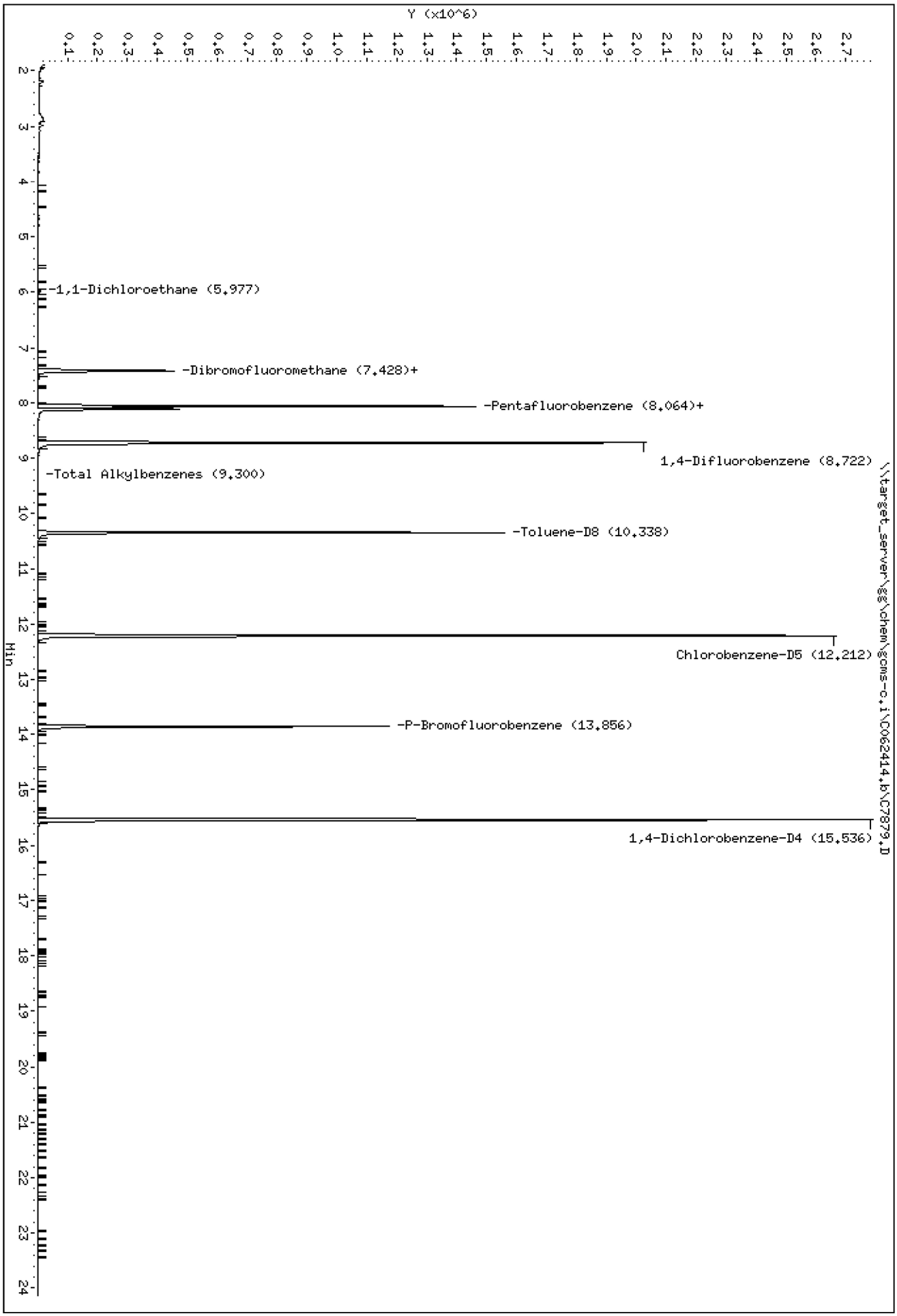
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Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7879.D
Lab Smp Id: SH4521-8 Client Smp ID: FTA-MW-210-061814
Inj Date : 24-JUN-2014 13:29 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4521-8
Misc Info : WG145321,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.976	5.975	(0.741)	8419	1.03833	1.0	
$	37 Dibromofluoromethane	113	7.428	7.427	(0.921)	271066	53.3207	53.3	
	38 1,1,1-Trichloroethane	97	7.435	7.441	(0.922)	7863	1.05870	1.0	
*	42 Pentafluorobenzene	168	8.064	8.063	(1.000)	894640	50.0000		
$	45 1,2-Dichloroethane-D4	65	8.114	8.113	(1.006)	306618	59.2955	59.3	
*	49 1,4-Difluorobenzene	114	8.722	8.721	(1.000)	1468868	50.0000		
$	55 Toluene-D8	98	10.338	10.344	(1.185)	874773	47.6271	47.6	
*	66 Chlorobenzene-D5	117	12.211	12.210	(1.000)	1442354	50.0000		
$	76 P-Bromofluorobenzene	95	13.856	13.855	(1.589)	380204	48.2889	48.3	
*	91 1,4-Dichlorobenzene-D4	152	15.543	15.542	(1.000)	824229	50.0000		


Y (x10^6)
Min
-1,1-Dichloroethane (5.977)
-Dibromofluoromethane (7.428)+
-Pentafluorobenzene (8.064)+
1,4-Difluorobenzene (8.722)
-Total Alkylbenzenes (9.300)
-Toluene-D8 (10.338)
Chlorobenzene-D5 (12.212)
-P-Bromofluorobenzene (13.856)
1,4-Dichlorobenzene-D4 (15.536)
Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7879.D
Date : 24-JUN-2014 13:29
Client ID: FTA-MW-210-061814
Sample Info: SH4521-8
Instrument: gcms-c.i
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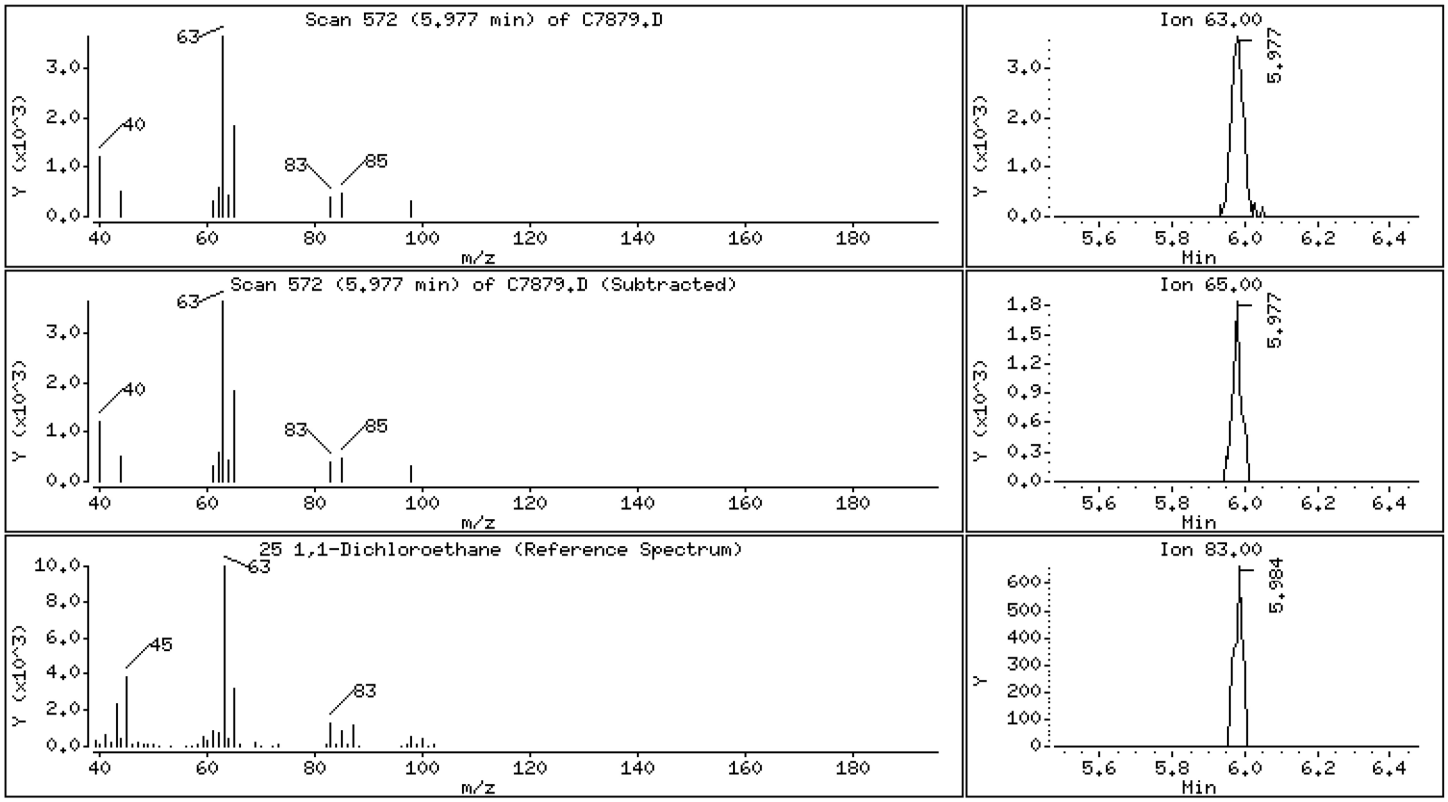
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Date : 24-JUN-2014 13:29

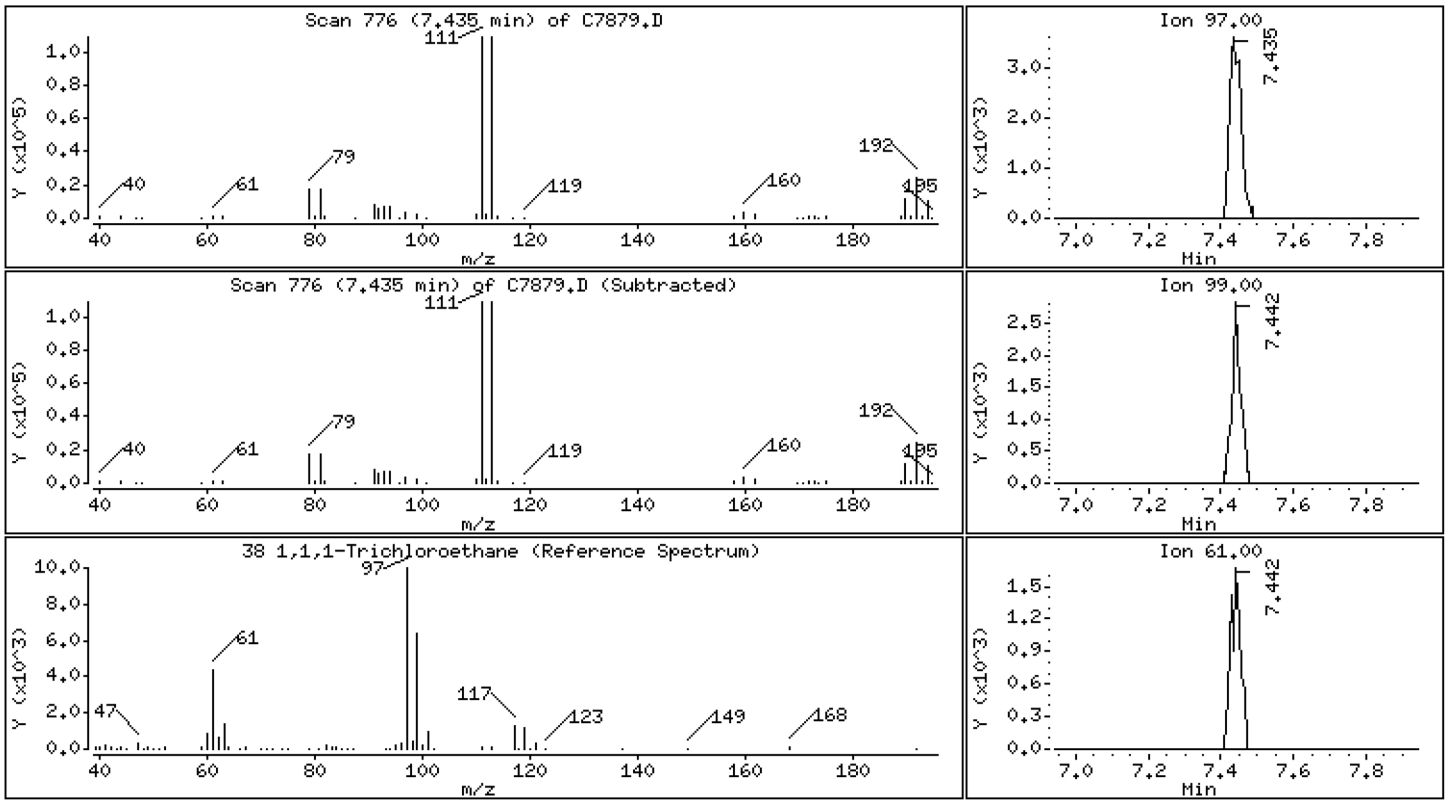
Client ID: FTA-MW-210-061814 Instrument: gcms-c.i

Sample Info: SH4521-8

25 1,1-Dichloroethane Concentration: 1.0 ug/l



38 1,1,1-Trichloroethane Concentration: 1.0 ug/l



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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-10
Client ID: FTA-SW-01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7880.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		90.7	%					
Toluene-d8		94.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-10
Client ID: FTA-SW-01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7880.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		119.	%					
Dibromofluoromethane		101.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7880.D
Report Date: 15-Jul-2014 12:24

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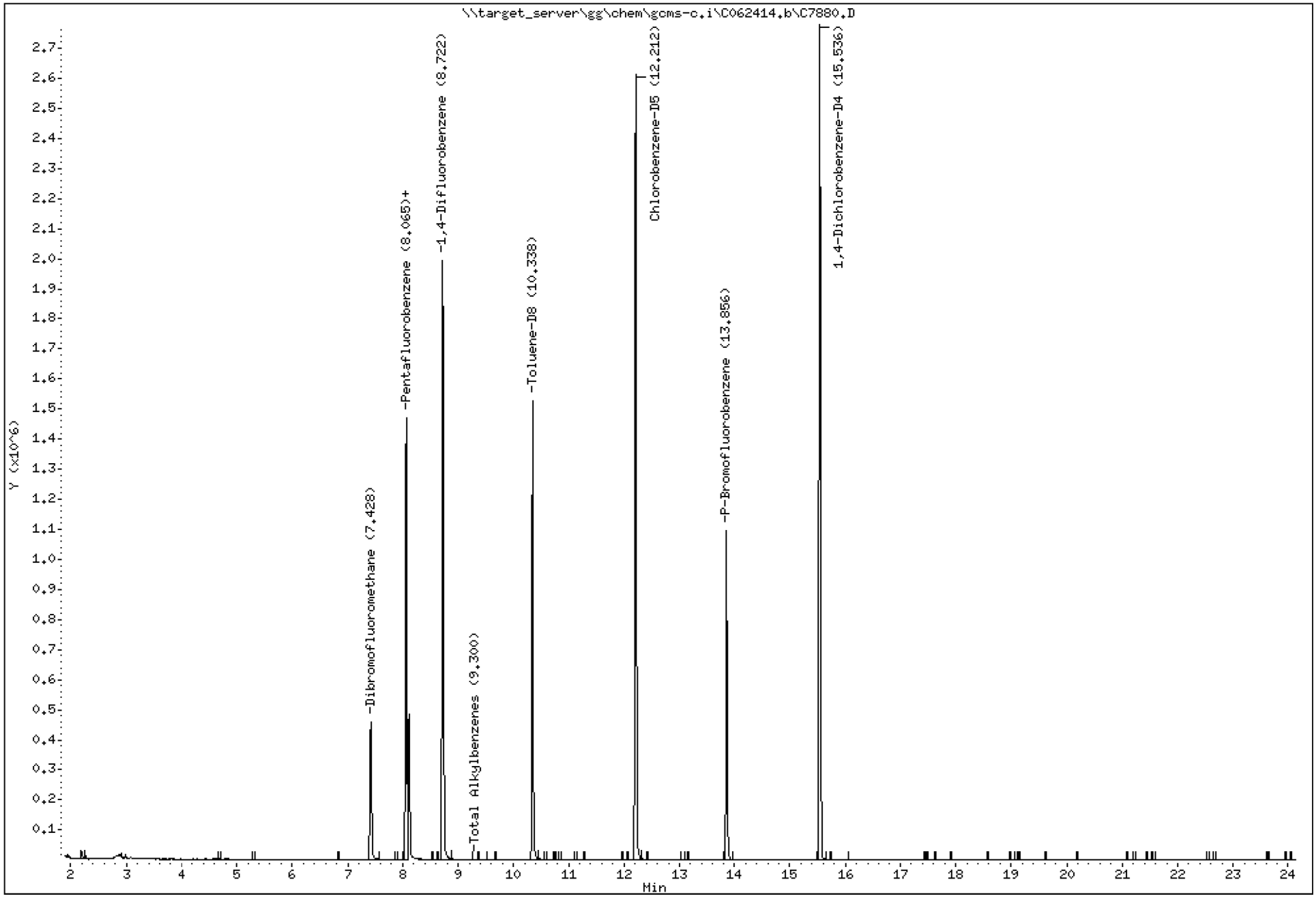
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Lab Smp Id: SH4521-10 Client Smp ID: FTA-SW-01-061914
Inj Date : 24-JUN-2014 13:59 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4521-10
Misc Info : WG145321,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.428	7.427	(0.921)	265373	50.7009	50.7	
* 42 Pentafluorobenzene	168	8.064	8.063	(1.000)	921107	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.114	8.113	(1.006)	315970	59.3483	59.3	
* 49 1,4-Difluorobenzene	114	8.722	8.721	(1.000)	1461056	50.0000		
$ 55 Toluene-D8	98	10.338	10.344	(1.185)	859909	47.0682	47.1	
* 66 Chlorobenzene-D5	117	12.211	12.210	(1.000)	1398654	50.0000		
$ 76 P-Bromofluorobenzene	95	13.856	13.855	(1.589)	355101	45.3418	45.3	
* 91 1,4-Dichlorobenzene-D4	152	15.543	15.542	(1.000)	820749	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7880.D
Date : 24-JUN-2014 13:59
Client ID: FTA-SW-01-061914 Instrument: gcms-c.i
Sample Info: SH4521-10



Katahdin Analytical Services 1000098

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-12
Client ID: FTA-SW-02-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7881.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		85.9	%					
Toluene-d8		96.6	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-12
Client ID: FTA-SW-02-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7881.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		118.	%					
Dibromofluoromethane		102.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7881.D
Report Date: 15-Jul-2014 12:24

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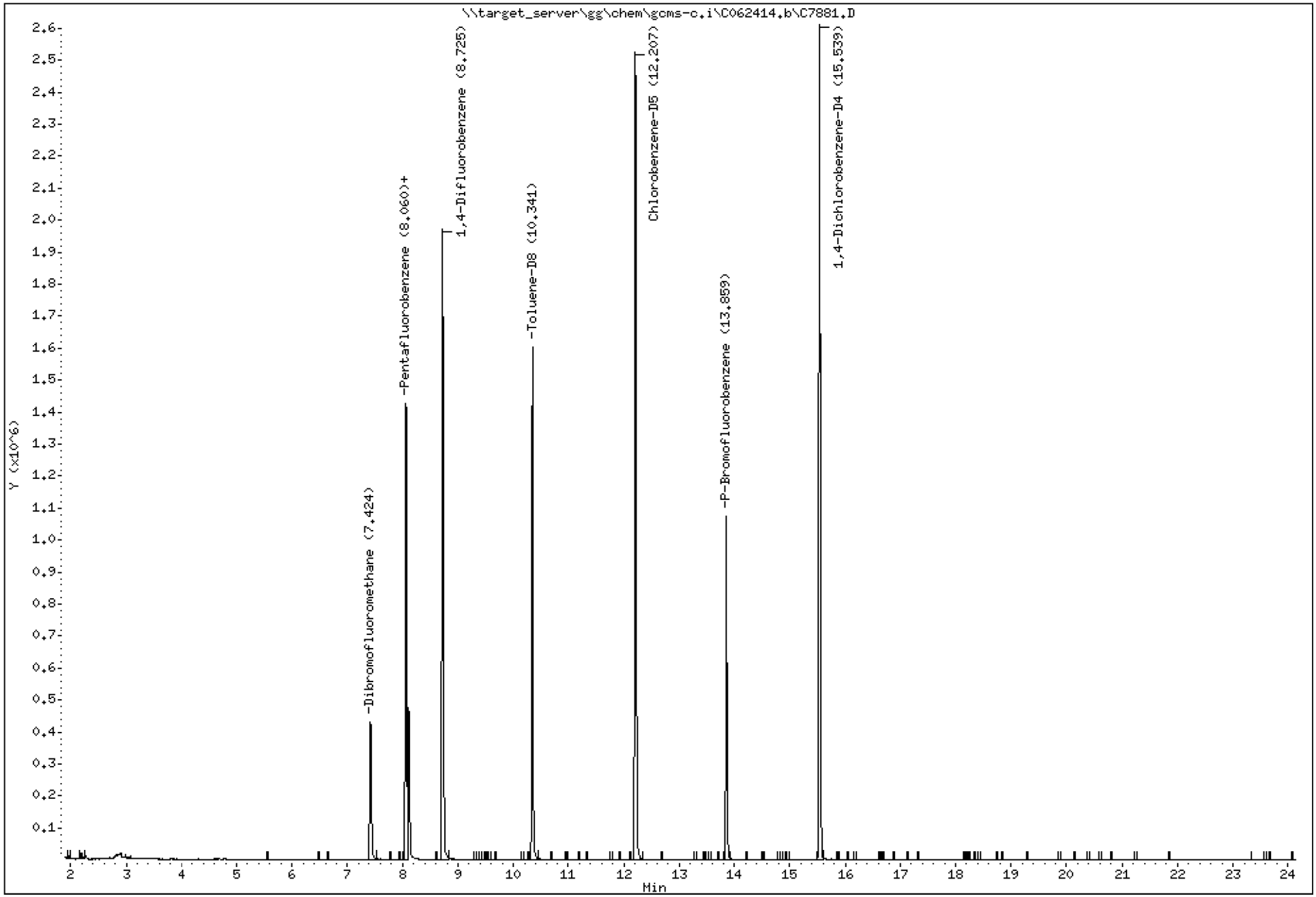
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Lab Smp Id: SH4521-12 Client Smp ID: FTA-SW-02-061914
Inj Date : 24-JUN-2014 14:30 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4521-12
Misc Info : WG145321,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.423	7.427	(0.920)	266252	51.1961	51.2	
* 42 Pentafluorobenzene	168	8.067	8.063	(1.000)	915219	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.110	8.113	(1.005)	311649	58.9133	58.9	
* 49 1,4-Difluorobenzene	114	8.725	8.721	(1.000)	1448754	50.0000		
$ 55 Toluene-D8	98	10.341	10.344	(1.185)	875081	48.3053	48.3	
* 66 Chlorobenzene-D5	117	12.214	12.210	(1.000)	1400592	50.0000		
$ 76 P-Bromofluorobenzene	95	13.859	13.855	(1.588)	333547	42.9512	43.0	
* 91 1,4-Dichlorobenzene-D4	152	15.539	15.542	(1.000)	710750	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7881.D
Date : 24-JUN-2014 14:30
Client ID: FTA-SW-02-061914
Instrument: gcms-c.i
Sample Info: SH4521-12



Katahdin Analytical Services 1000102

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ANALYTICAL SERVICES

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-14
Client ID: FTA-SW-03-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7882.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	UMM	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	UM	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	UM	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	UM	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	UM	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	UM	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	UM	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	UM	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	UM	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	UM	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	UM	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	UM	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	UM	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	UM	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	UM	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	UM	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	UM	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	UM	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	UM	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	UM	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	UM	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	UM	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		93.9	%					
Toluene-d8		94.1	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-14
Client ID: FTA-SW-03-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7882.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4	*	126.	%					
Dibromofluoromethane		107.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7882.D
Report Date: 15-Jul-2014 12:24

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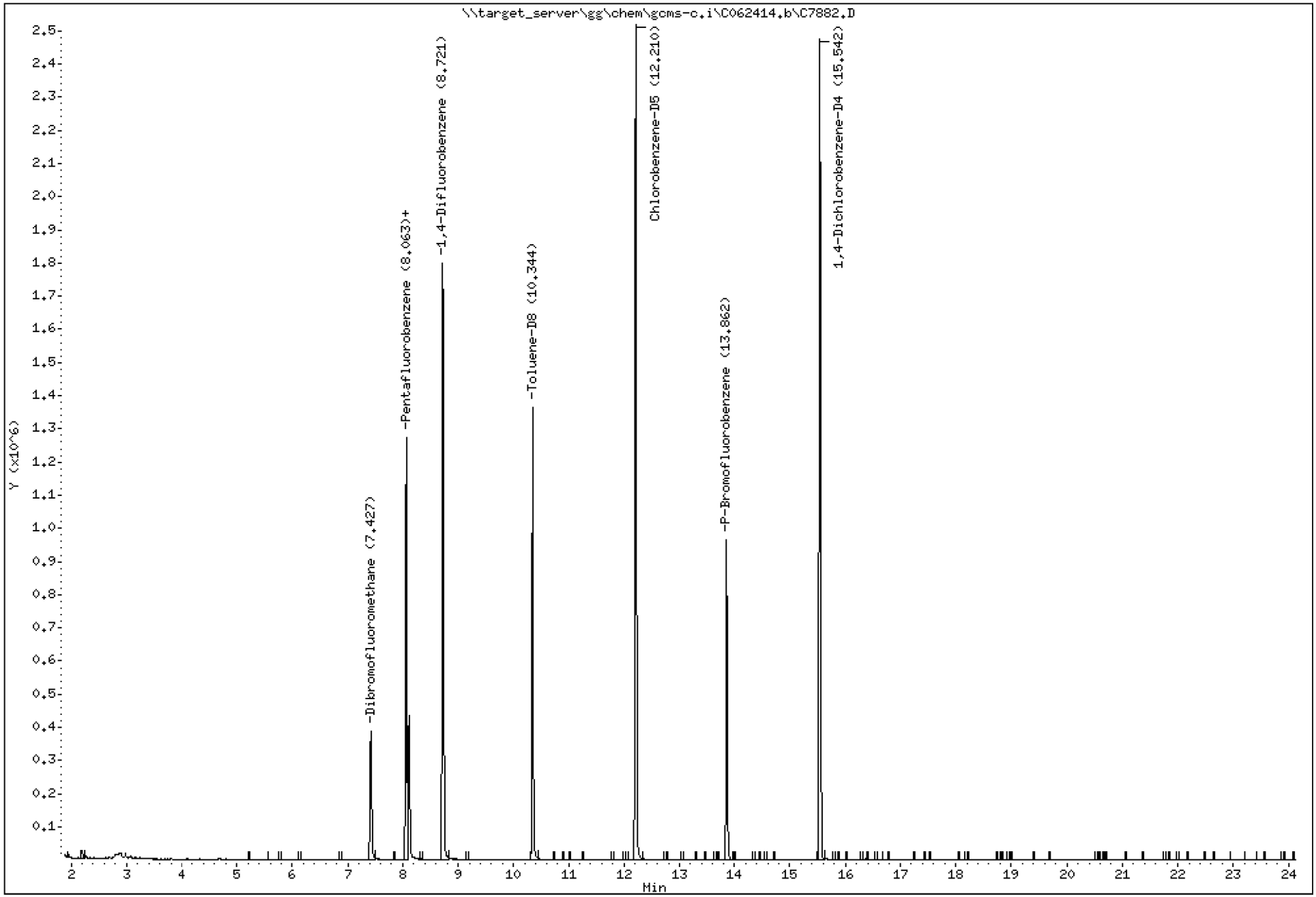
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Lab Smp Id: SH4521-14 Client Smp ID: FTA-SW-03-061914
Inj Date : 24-JUN-2014 15:01 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4521-14
Misc Info : WG145321,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.426	7.427	(0.921)	228429	53.5950	53.6	
* 42 Pentafluorobenzene	168	8.063	8.063	(1.000)	750060	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.113	8.113	(1.006)	273214	63.0202	63.0	
* 49 1,4-Difluorobenzene	114	8.721	8.721	(1.000)	1310770	50.0000		
$ 55 Toluene-D8	98	10.344	10.344	(1.186)	771016	47.0412	47.0	
* 66 Chlorobenzene-D5	117	12.210	12.210	(1.000)	1327756	50.0000		
$ 76 P-Bromofluorobenzene	95	13.854	13.855	(1.589)	329830	46.9437	46.9	
* 91 1,4-Dichlorobenzene-D4	152	15.542	15.542	(1.000)	695252	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7882.D
Date : 24-JUN-2014 15:01
Client ID: FTA-SW-03-061914
Instrument: gcms-c.i
Sample Info: SH4521-14



Katahdin Analytical Services 1000106

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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-16RA
Client ID: FTA-SW-06-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: D9210.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		7.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	J	0.86	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		95.2	%					
Toluene-d8		111.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-16RA
Client ID: FTA-SW-06-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: D9210.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		117.	%					
Dibromofluoromethane		112.	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9210.D
Report Date: 15-Jul-2014 12:29

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Data file : \\target_server\gg\chem\gcms-d.i\D062814.b\D9210.D
Lab Smp Id: SH4521-16RA Client Smp ID: FTA-SW-06-061914
Inj Date : 28-JUN-2014 11:37 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : SH4521-16RA
Misc Info : WG145586,WG144515-4
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-d.i\D062814.b\D826A48.m
Meth Date : 30-Jun-2014 06:27 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 15:07 Cal File: D8863.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

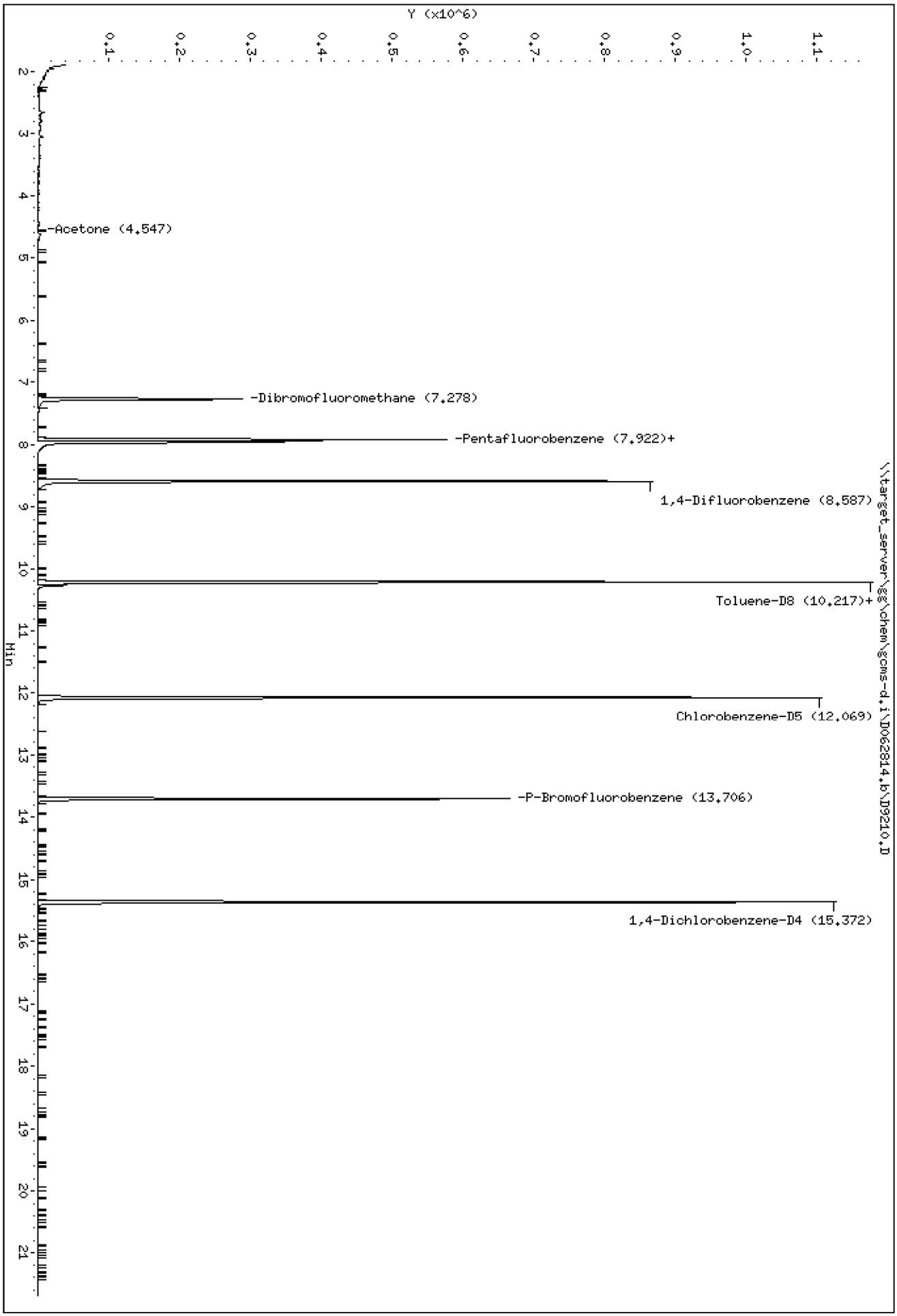
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.625	4.621	(0.584)	6040	7.47850	7.5	
$ 37 Dibromofluoromethane	113	7.278	7.281	(0.919)	171351	56.2982	56.3	
* 42 Pentafluorobenzene	168	7.921	7.931	(1.000)	321844	50.0000		
$ 45 1,2-Dichloroethane-D4	65	7.964	7.967	(1.005)	212446	58.7398	58.7	
* 49 1,4-Difluorobenzene	114	8.586	8.589	(1.000)	598150	50.0000		
$ 55 Toluene-D8	98	10.217	10.219	(1.190)	668219	55.4213	55.4	
57 Toluene	92	10.274	10.276	(1.197)	8012	0.86521	0.86(a)	
* 66 Chlorobenzene-D5	117	12.068	12.071	(1.000)	541606	50.0000		
$ 76 P-Bromofluorobenzene	95	13.706	13.708	(1.596)	214181	47.5771	47.6	
* 91 1,4-Dichlorobenzene-D4	152	15.372	15.374	(1.000)	281198	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
-Acetone (4.547)
-Dibromofluoromethane (7.278)
-Pentafluorobenzene (7.922)+
1,4-Difluorobenzene (8.587)
Toluene-D8 (10.217)+
Chlorobenzene-D5 (12.069)
-P-Bromofluorobenzene (13.706)
1,4-Dichlorobenzene-D4 (15.372)
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Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9210.D
Date : 28-JUN-2014 11:37
Client ID: FTA-SW-06-061914
Sample Info: SH4521-16RA
Instrument: gcms-d.i

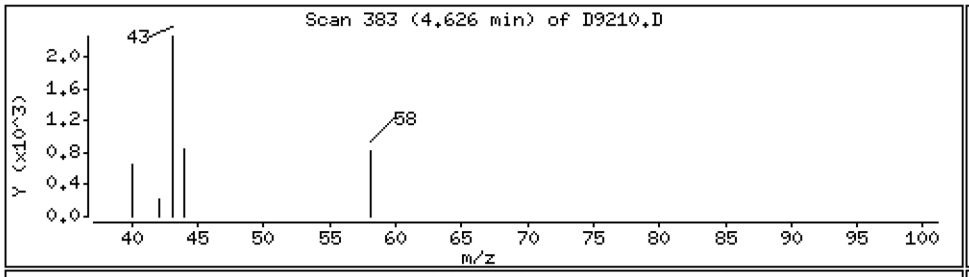
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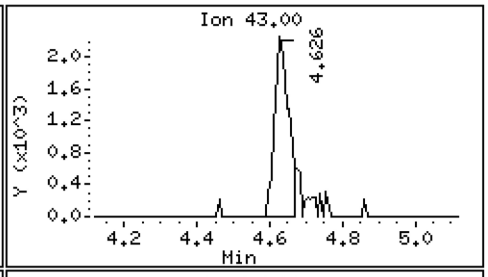
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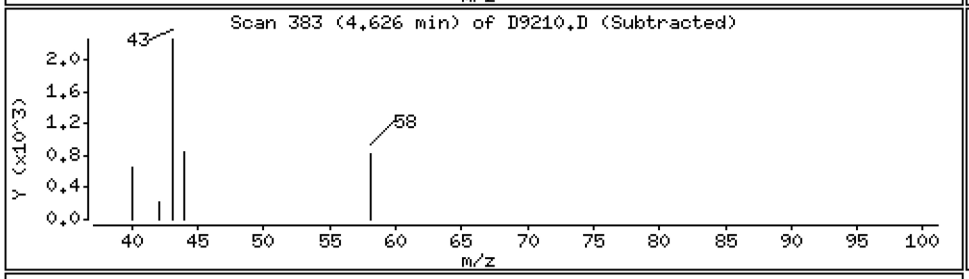
Client ID: FTA-SW-06-061914 Instrument: gcms-d.i

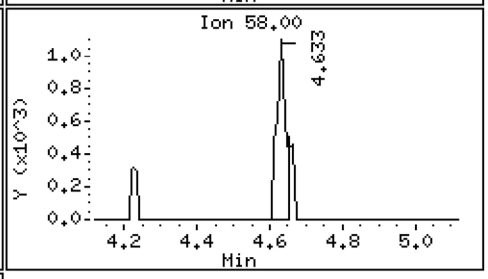
Sample Info: SH4521-16RA

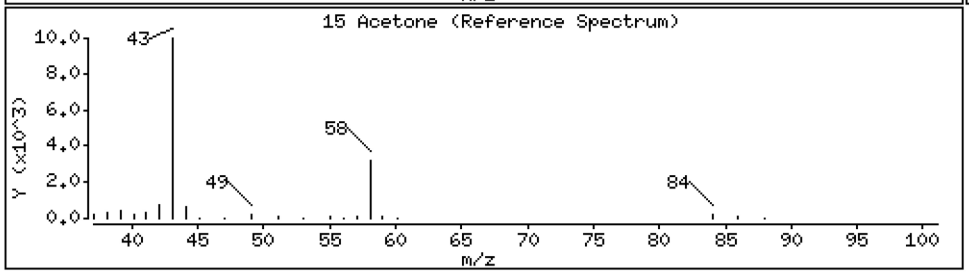
15 Acetone Concentration: 7.5 ug/l



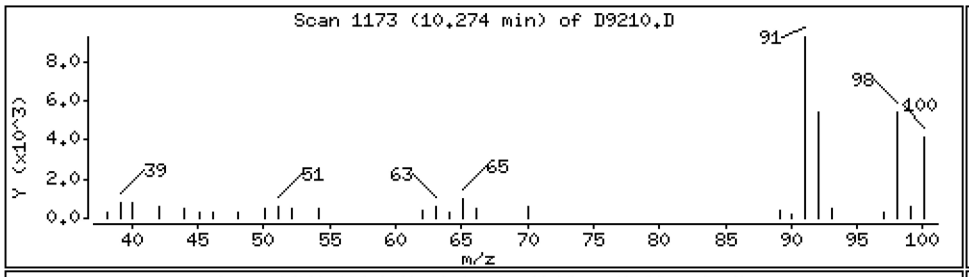


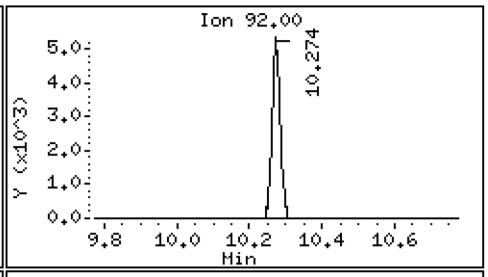


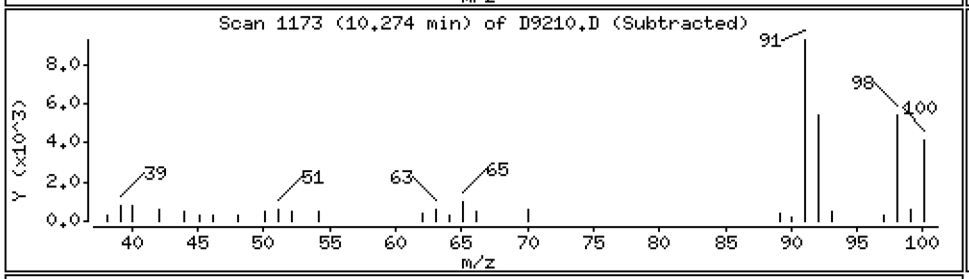


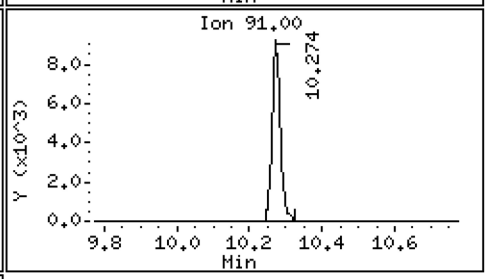


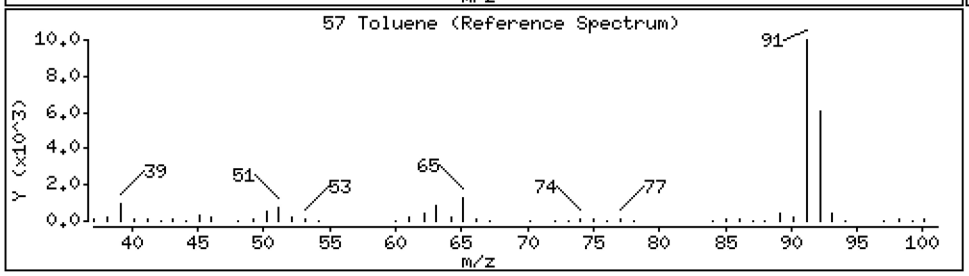
57 Toluene Concentration: 0.86 ug/l











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ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-18RA
Client ID: FTA-SW-07-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: D9211.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		6.0	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene		5.1	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		98.3	%					
Toluene-d8		114.	%					

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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-18RA
Client ID: FTA-SW-07-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: D9211.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		118.	%					
Dibromofluoromethane	*	115.	%					

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9211.D
Report Date: 15-Jul-2014 12:29

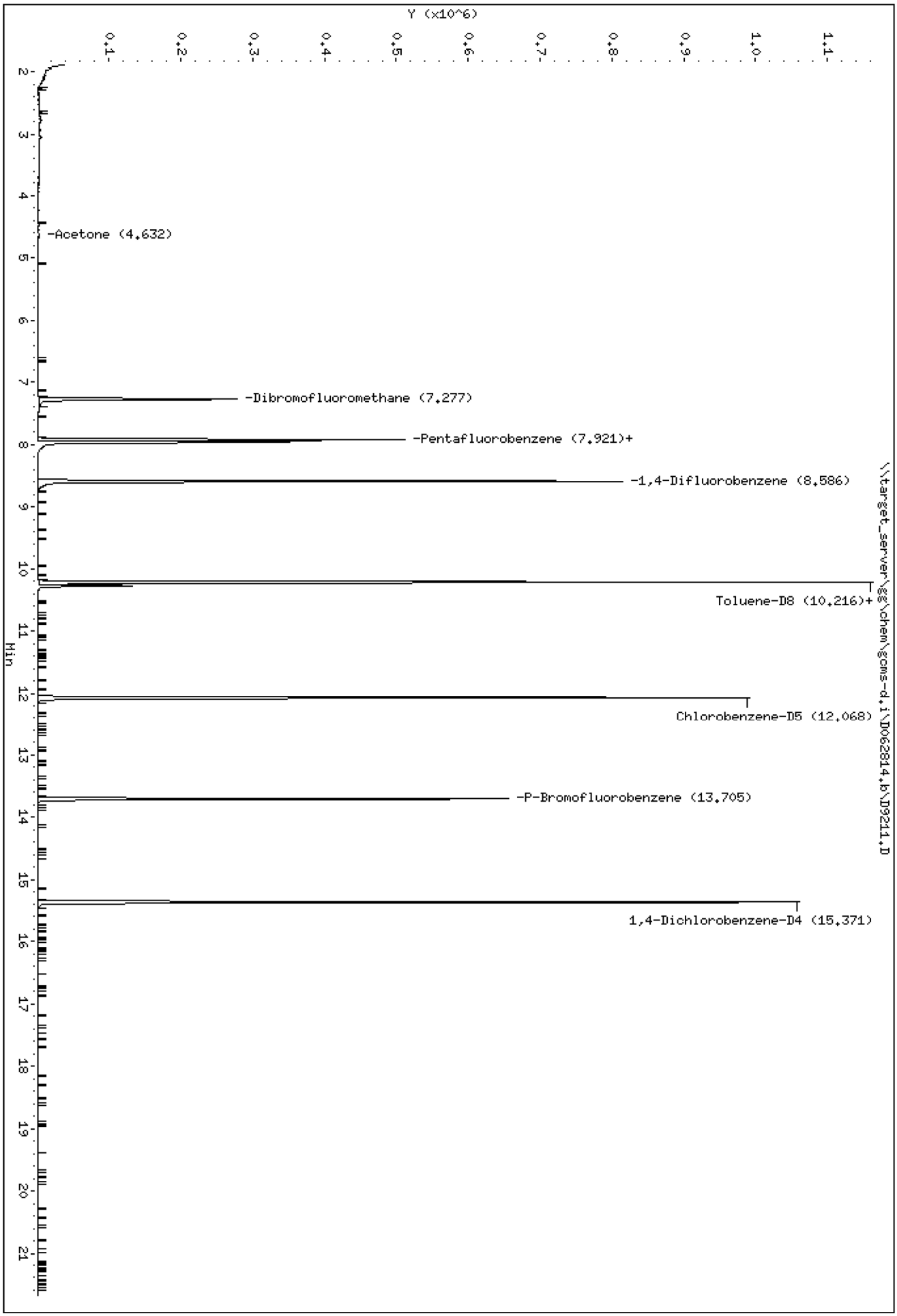
Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D062814.b\D9211.D
Lab Smp Id: SH4521-18RA Client Smp ID: FTA-SW-07-061914
Inj Date : 28-JUN-2014 12:10 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : SH4521-18RA
Misc Info : WG145586,WG144515-4
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-d.i\D062814.b\D826A48.m
Meth Date : 30-Jun-2014 06:27 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 15:07 Cal File: D8863.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	15 Acetone	43	4.631	4.621	(0.585)	4468	6.00911	6.0	
$	37 Dibromofluoromethane	113	7.277	7.281	(0.919)	160657	57.3360	57.3	
*	42 Pentafluorobenzene	168	7.920	7.931	(1.000)	296296	50.0000		
$	45 1,2-Dichloroethane-D4	65	7.963	7.967	(1.005)	196944	59.1489	59.1	
*	49 1,4-Difluorobenzene	114	8.585	8.589	(1.000)	556675	50.0000		
$	55 Toluene-D8	98	10.216	10.219	(1.190)	639683	57.0073	57.0	
	57 Toluene	92	10.273	10.276	(1.197)	44222	5.13127	5.1	
*	66 Chlorobenzene-D5	117	12.068	12.071	(1.000)	504354	50.0000		
$	76 P-Bromofluorobenzene	95	13.705	13.708	(1.596)	205886	49.1420	49.1	
*	91 1,4-Dichlorobenzene-D4	152	15.371	15.374	(1.000)	265836	50.0000		


Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
-Acetone (4.632)
-Dibromofluoromethane (7.277)
-Pentafluorobenzene (7.921)+
-1,4-Difluorobenzene (8.586)
Toluene-D8 (10.216)+
Chlorobenzene-D5 (12.068)
-P-Bromofluorobenzene (13.705)
1,4-Dichlorobenzene-D4 (15.371)
\\target_server\gg\chem\gcms-d.i\D062814.b\D9211.D
Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9211.D
Date : 28-JUN-2014 12:10
Client ID: FTA-SW-07-061914
Sample Info: SH4521-18RA
Instrument: gcms-d.i

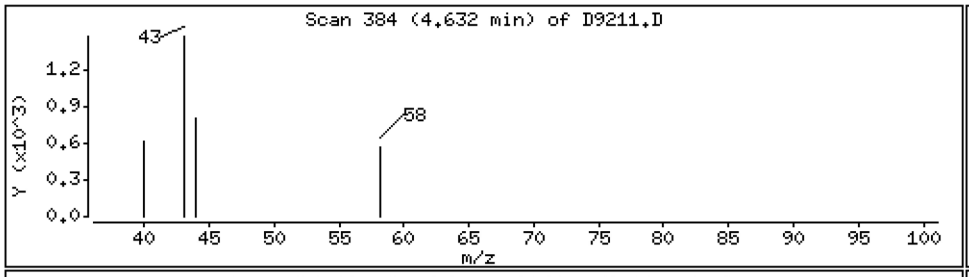
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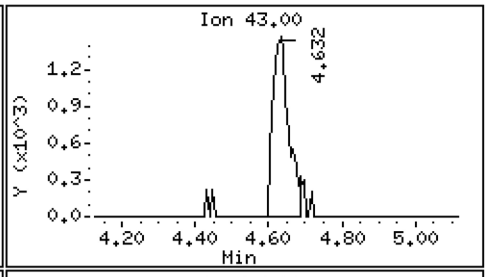
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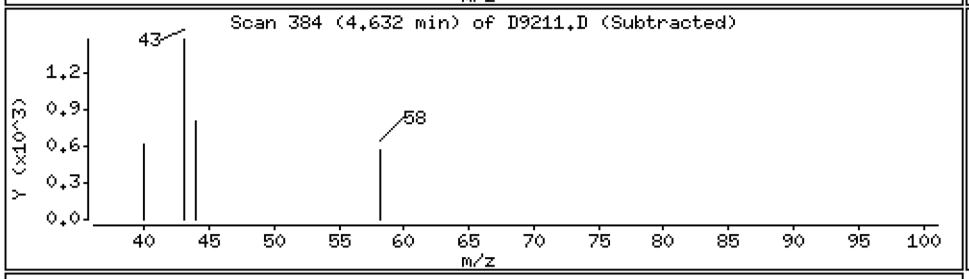
Client ID: FTA-SW-07-061914 Instrument: gcms-d.i

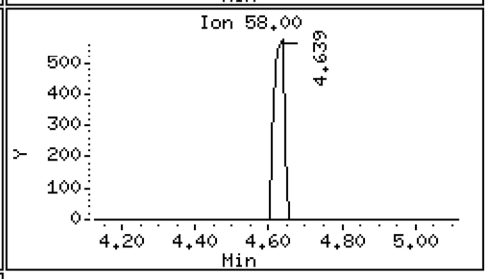
Sample Info: SH4521-18RA

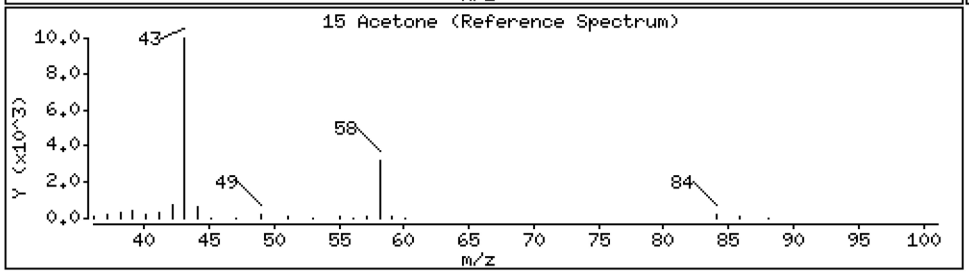
15 Acetone Concentration: 6.0 ug/l



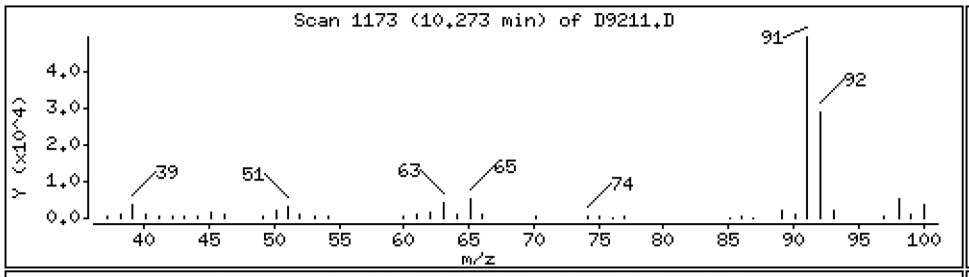


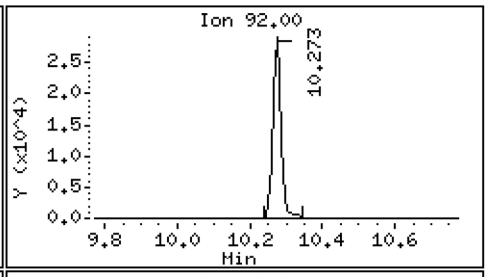


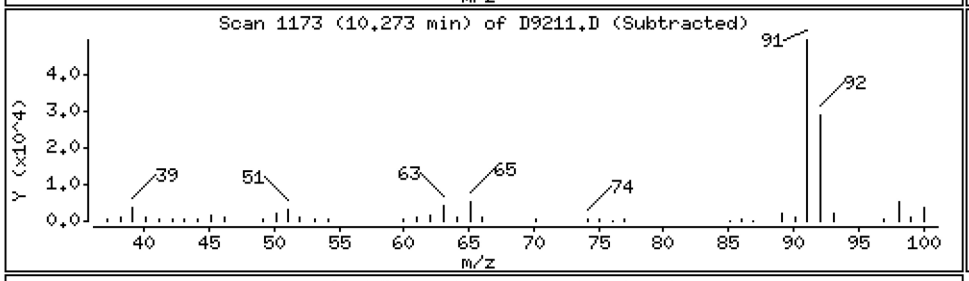


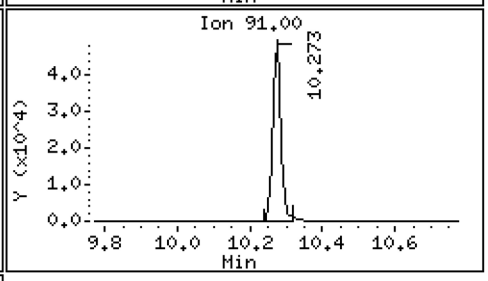


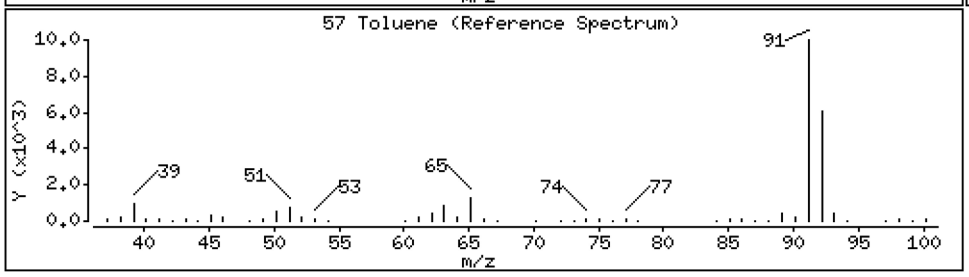
57 Toluene Concentration: 5.1 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-20RA
Client ID: FTA-SW-08-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: D9212.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	J	4.1	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		91.2	%					
Toluene-d8		108.	%					

600 Technology Way
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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-20RA
Client ID: FTA-SW-08-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: D9212.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		112.	%					
Dibromofluoromethane		111.	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9212.D
Report Date: 15-Jul-2014 12:29

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Data file : \\target_server\gg\chem\gcms-d.i\D062814.b\D9212.D
Lab Smp Id: SH4521-20RA Client Smp ID: FTA-SW-08-061914
Inj Date : 28-JUN-2014 12:43 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : SH4521-20RA
Misc Info : WG145586,WG144515-4
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-d.i\D062814.b\D826A48.m
Meth Date : 30-Jun-2014 06:27 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 15:07 Cal File: D8863.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

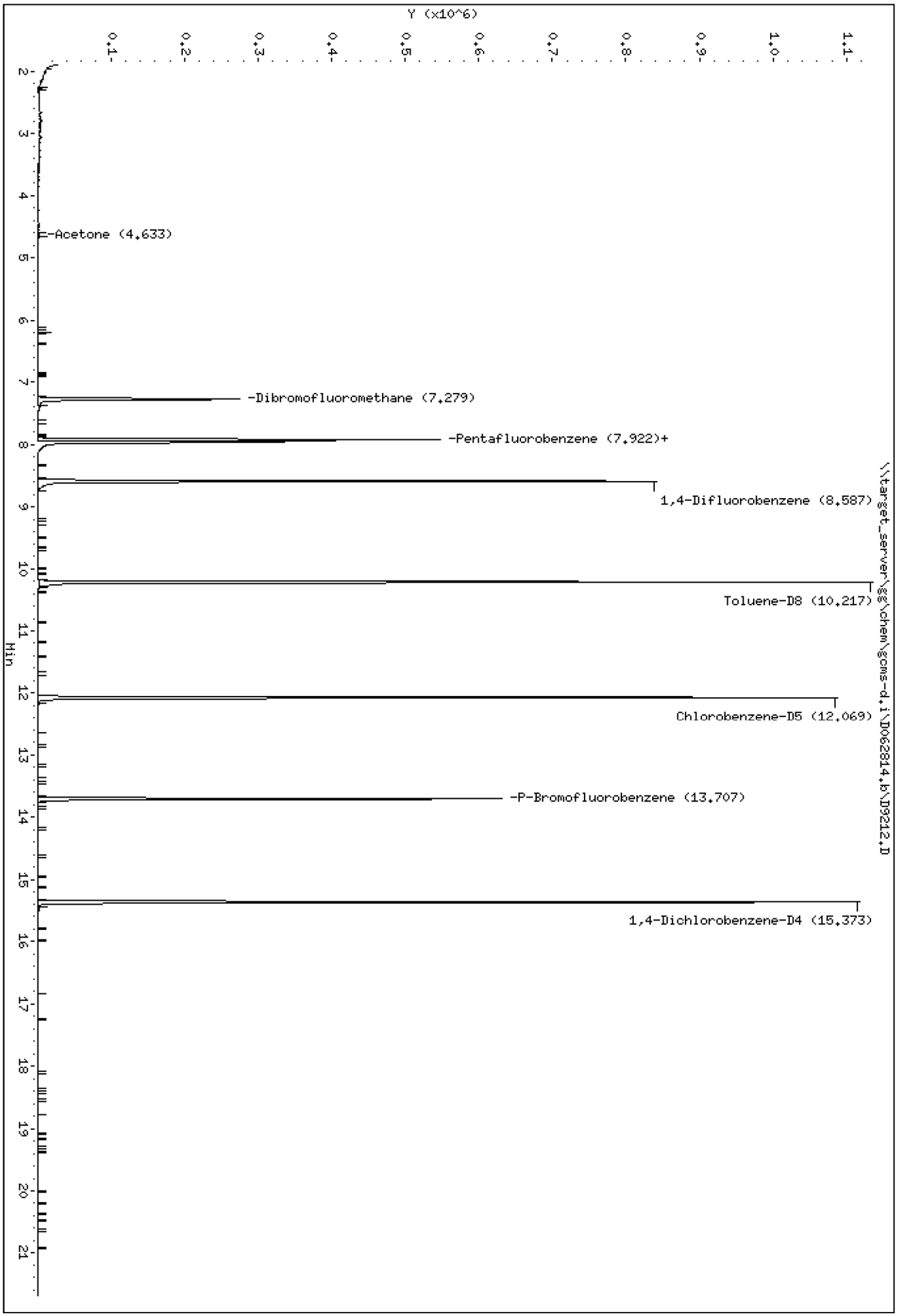
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
15 Acetone	43	4.633	4.621	(0.585)	3242	4.10798	4.1(a)	
$ 37 Dibromofluoromethane	113	7.278	7.281	(0.919)	165641	55.6946	55.7	
* 42 Pentafluorobenzene	168	7.922	7.931	(1.000)	314491	50.0000		
$ 45 1,2-Dichloroethane-D4	65	7.965	7.967	(1.005)	197648	55.9260	55.9	
* 49 1,4-Difluorobenzene	114	8.587	8.589	(1.000)	580658	50.0000		
$ 55 Toluene-D8	98	10.217	10.219	(1.190)	634536	54.2130	54.2	
* 66 Chlorobenzene-D5	117	12.069	12.071	(1.000)	525706	50.0000		
$ 76 P-Bromofluorobenzene	95	13.706	13.708	(1.596)	199194	45.5809	45.6	
* 91 1,4-Dichlorobenzene-D4	152	15.372	15.374	(1.000)	273817	50.0000		

QC Flag Legend

a - Target compound detected but, quantitated amount
    Below Limit Of Quantitation(BLOQ).


Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9212.D
Date : 28-JUN-2014 12:43
Client ID: FTA-SW-08-061914
Sample Info: SH4521-20RA
Instrument: gcms-d.i
Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
E-Acetone (4.633)
-Dibromofluoromethane (7.279)
-Pentafluorobenzene (7.922)+
1,4-Difluorobenzene (8.587)
Toluene-D8 (10.217)
Chlorobenzene-D5 (12.069)
-P-Bromofluorobenzene (13.707)
1,4-Dichlorobenzene-D4 (15.373)
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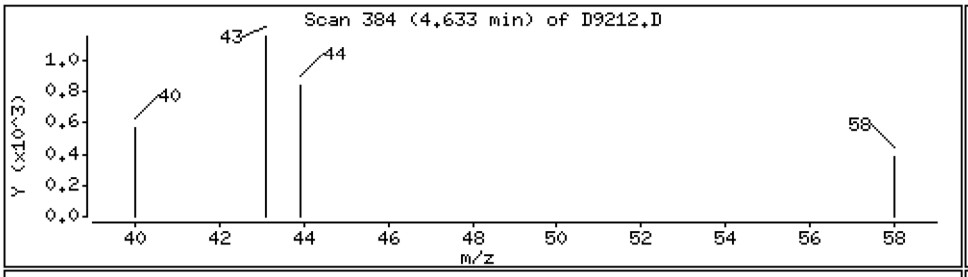
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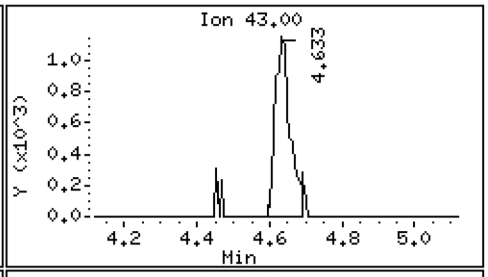
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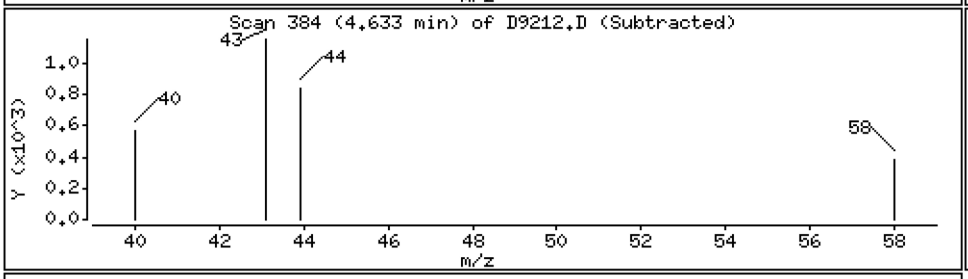
Client ID: FTA-SW-08-061914 Instrument: gcms-d.i

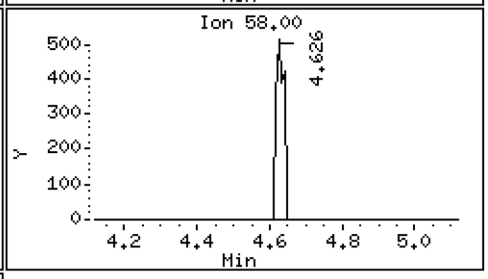
Sample Info: SH4521-20RA

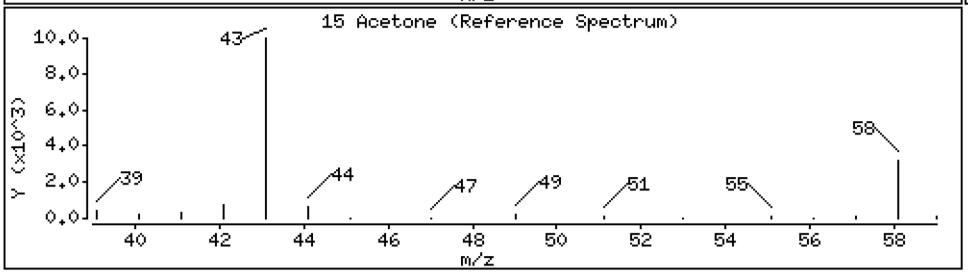
15 Acetone Concentration: 4.1 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-22RA
Client ID: FTA-SW-DUP01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: D9213.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone		11	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene		1.0	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		94.4	%					
Toluene-d8		110.	%					

600 Technology Way
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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-22RA
Client ID: FTA-SW-DUP01-061914
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: D9213.D

Sample Date: 19-JUN-14
Received Date: 20-JUN-14
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		114.	%					
Dibromofluoromethane		112.	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9213.D
Report Date: 15-Jul-2014 12:29

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D062814.b\D9213.D
Lab Smp Id: SH4521-22RA Client Smp ID: FTA-SW-DUP01-061914
Inj Date : 28-JUN-2014 13:16 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : SH4521-22RA
Misc Info : WG145586,WG144515-4
Comment   : SW846 5030
Method   : \\target_server\gg\chem\gcms-d.i\D062814.b\D826A48.m
Meth Date : 30-Jun-2014 06:27 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 15:07 Cal File: D8863.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

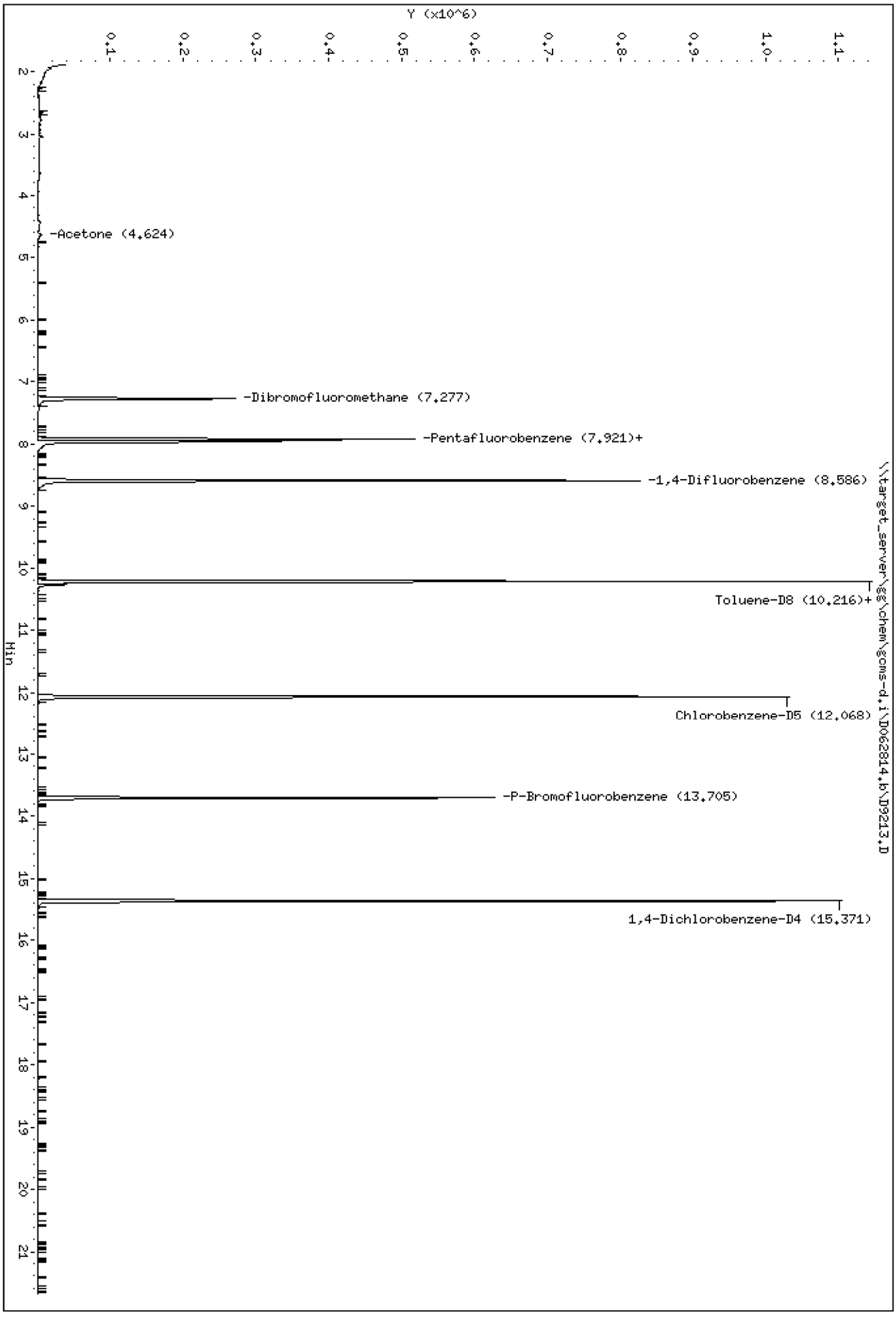
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	15 Acetone	43	4.624	4.621	(0.583)	7997	10.6189	10.6(M)	M9
$	37 Dibromofluoromethane	113	7.277	7.281	(0.918)	158940	56.0036	56.0	
*	42 Pentafluorobenzene	168	7.927	7.931	(1.000)	300103	50.0000		
$	45 1,2-Dichloroethane-D4	65	7.963	7.967	(1.004)	192139	56.9737	57.0	
*	49 1,4-Difluorobenzene	114	8.585	8.589	(1.000)	551979	50.0000		
$	55 Toluene-D8	98	10.215	10.219	(1.190)	612473	55.0468	55.0	
	57 Toluene	92	10.273	10.276	(1.197)	8631	1.01001	1.0	
*	66 Chlorobenzene-D5	117	12.067	12.071	(1.000)	513550	50.0000		
$	76 P-Bromofluorobenzene	95	13.705	13.708	(1.596)	196166	47.2203	47.2	
*	91 1,4-Dichlorobenzene-D4	152	15.371	15.374	(1.000)	268526	50.0000		

DJP
3:56 pm, Jul 15, 2014

QC Flag Legend

M - Compound response manually integrated.


Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9213.D
Date : 28-JUN-2014 13:16
Client ID: FTA-SW-DUP01-061914
Sample Info: SH4521-22RA
Instrument: gcms-d.i
Y (x10^6)
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
Min
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
-Acetone (4.624)
-Dibromofluoromethane (7.277)
-Pentafluorobenzene (7.921)+
-1,4-Difluorobenzene (8.586)
Toluene-D8 (10.216)+
Chlorobenzene-D5 (12.068)
-P-Bromofluorobenzene (13.705)
1,4-Dichlorobenzene-D4 (15.371)
\\target_server\gg\chem\gcms-d.i\D062814.b\D9213.D

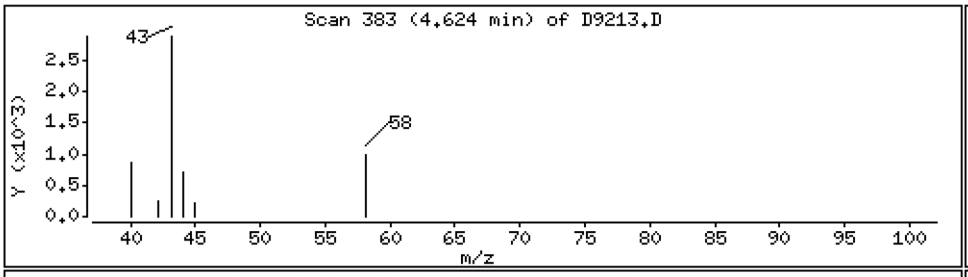
Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9213.D

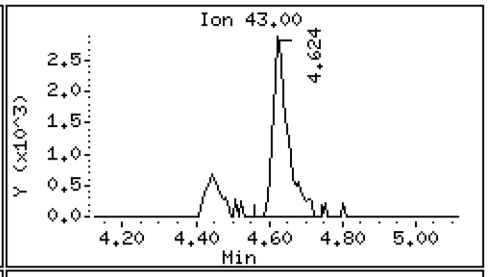
Date : 28-JUN-2014 13:16

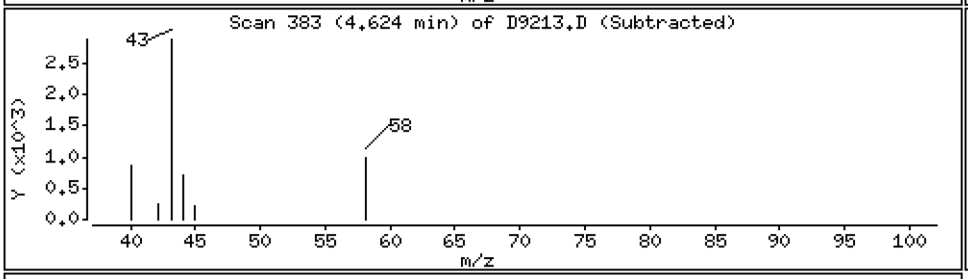
Client ID: FTA-SW-DUP01-061914 Instrument: gcms-d.i

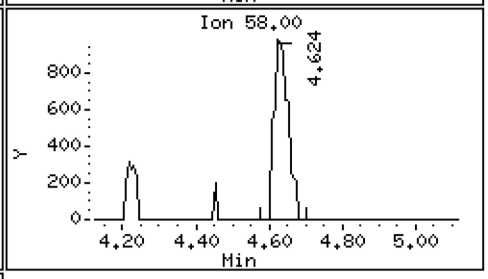
Sample Info: SH4521-22RA

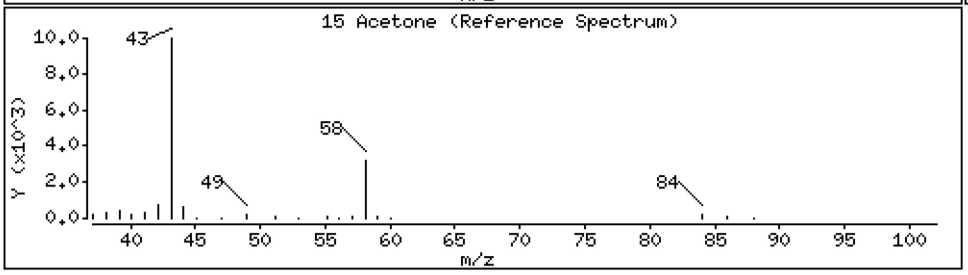
15 Acetone Concentration: 10.6 ug/l



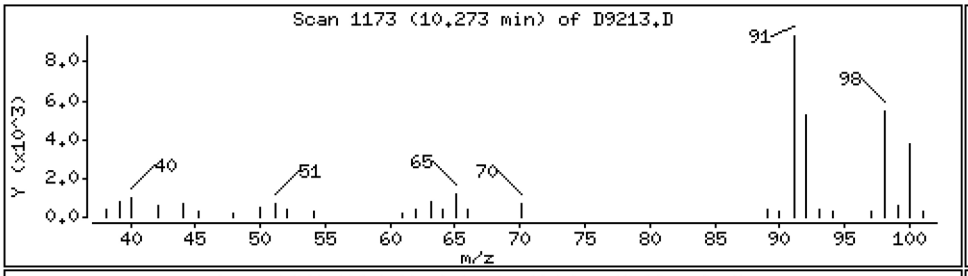


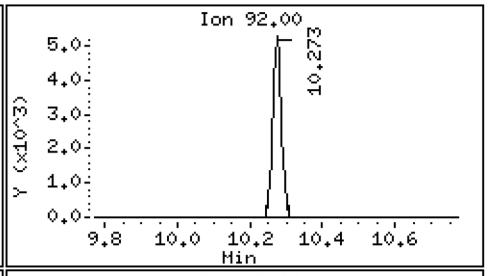


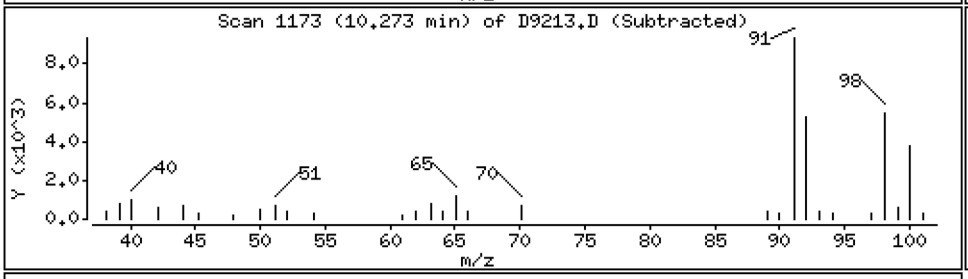


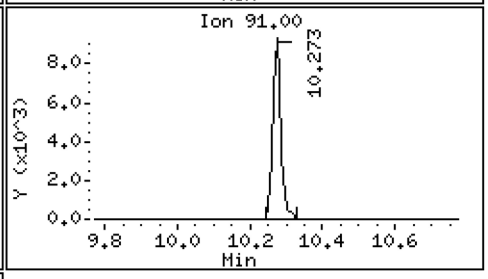


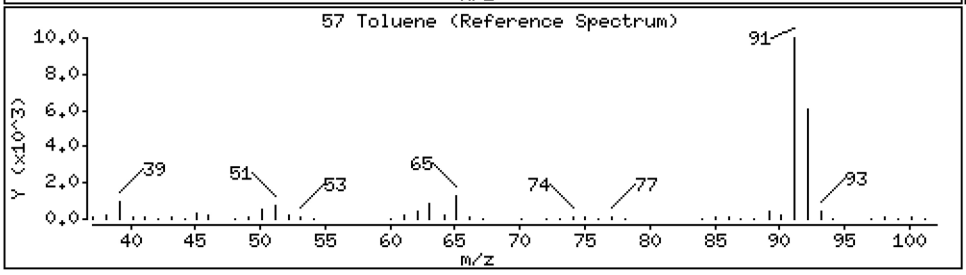
57 Toluene Concentration: 1.0 ug/l







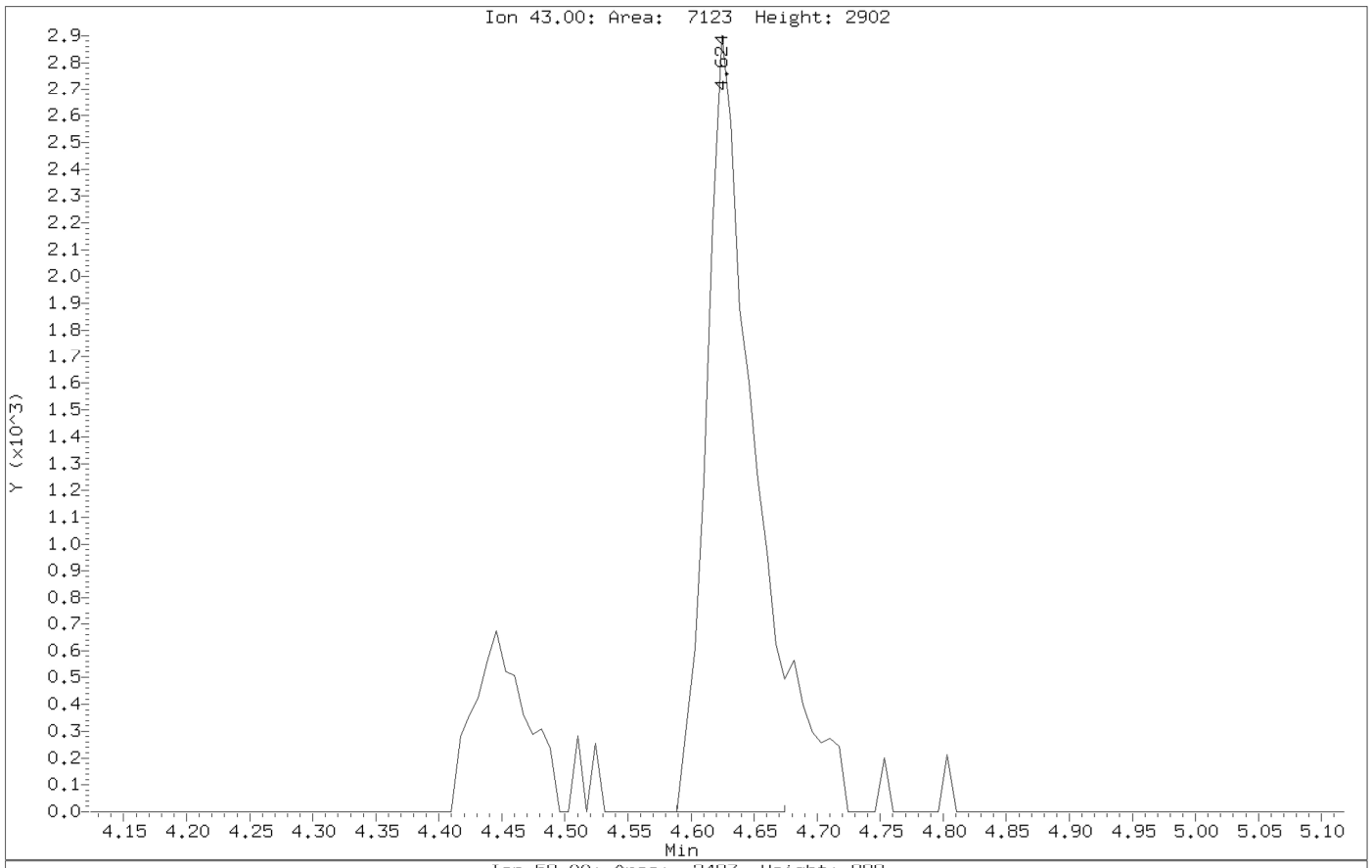


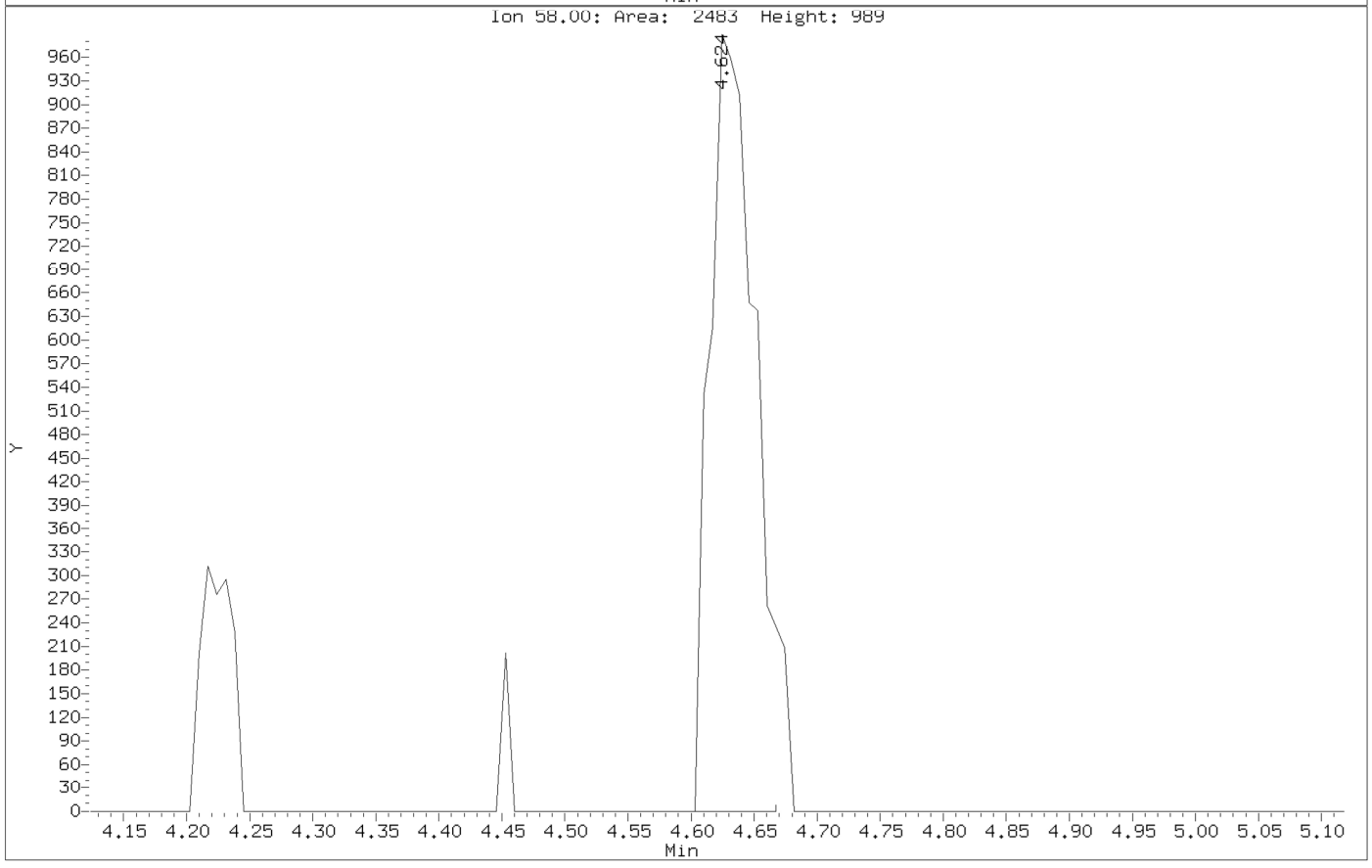


Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9213.D
Injection Date: 28-JUN-2014 13:16
Instrument: gcms-d.i
Client Sample ID: FTA-SW-DUP01-061914

Compound: Acetone
CAS Number: 67-64-1

BEFORE MANUAL INTEGRATION

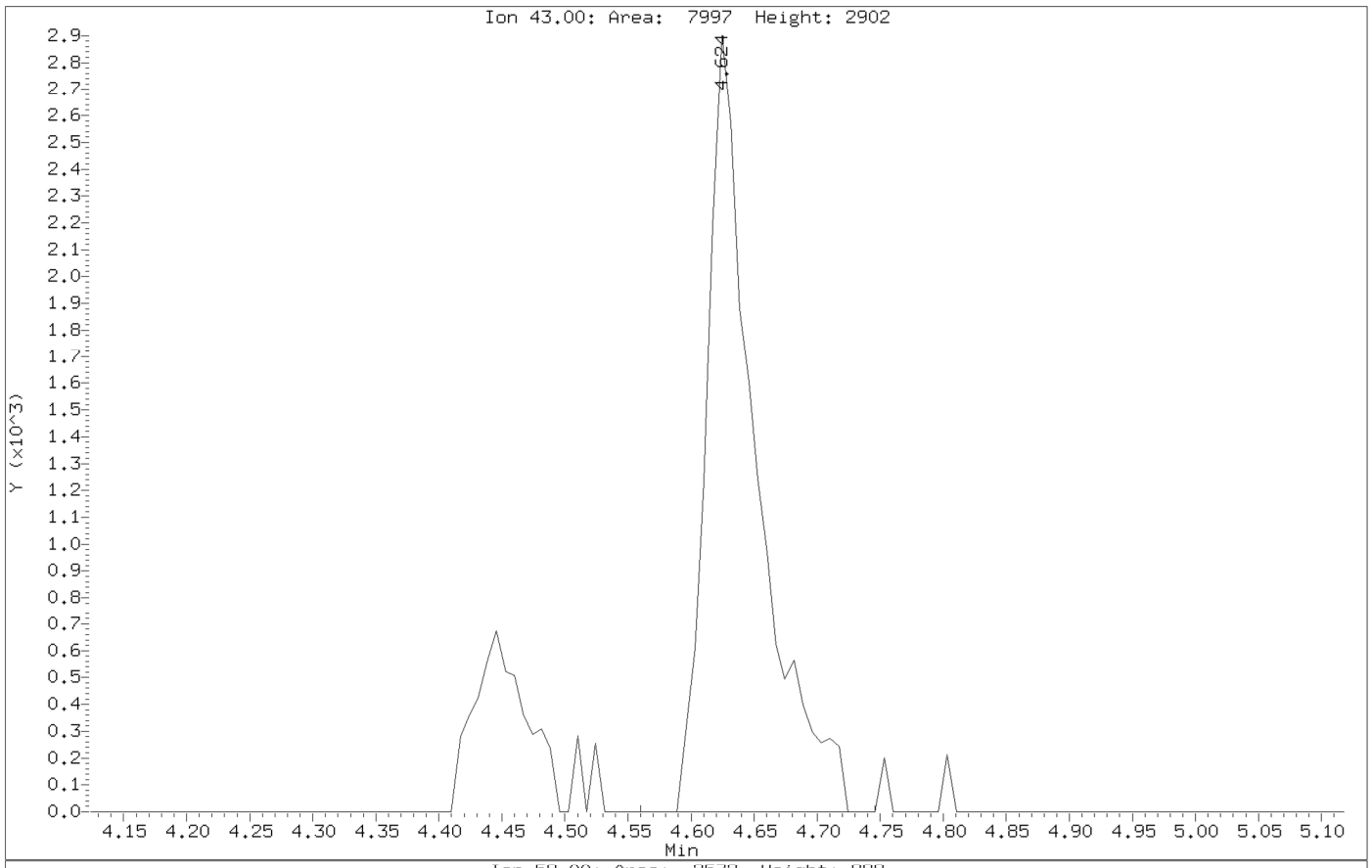


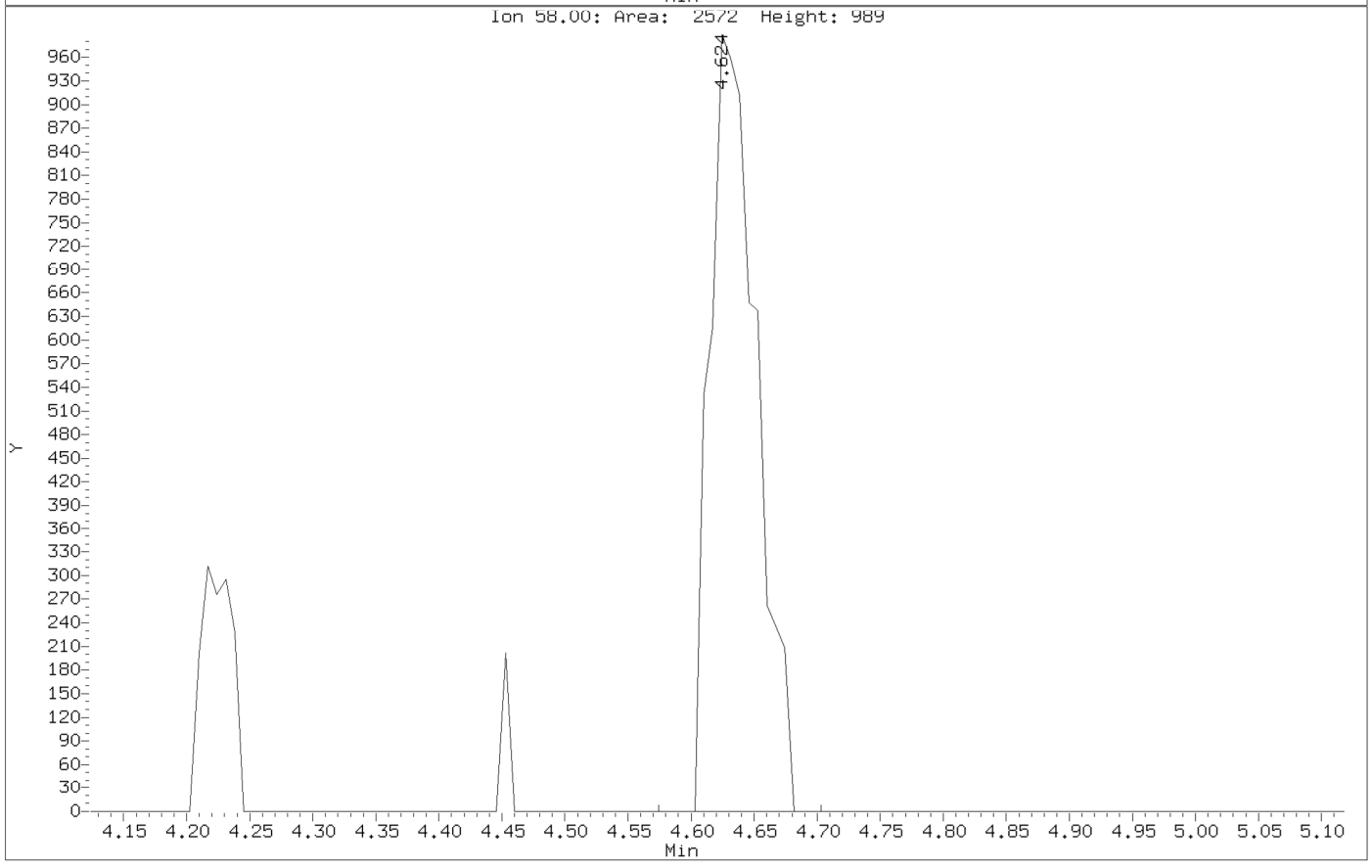


Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9213.D
Injection Date: 28-JUN-2014 13:16
Instrument: gcms-d.i
Client Sample ID: FTA-SW-DUP01-061914

Compound: Acetone
CAS Number: 67-64-1

AFTER MANUAL INTEGRATION





Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-24
Client ID: FTA-SD-RB01-062014
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7875.D

Sample Date: 20-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		89.6	%					
Toluene-d8		93.0	%					

600 Technology Way
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Report of Analytical Results

Client: Tetra Tech NUS, Inc.
Lab ID: SH4521-24
Client ID: FTA-SD-RB01-062014
Project: NCTAMSLANT Cutler CTO
SDG: WE53-7
Lab File ID: C7875.D

Sample Date: 20-JUN-14
Received Date: 20-JUN-14
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,2-Dichloroethane-d4		112.	%					
Dibromofluoromethane		101.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7875.D
Report Date: 15-Jul-2014 12:24

Katahdin Analytical Services

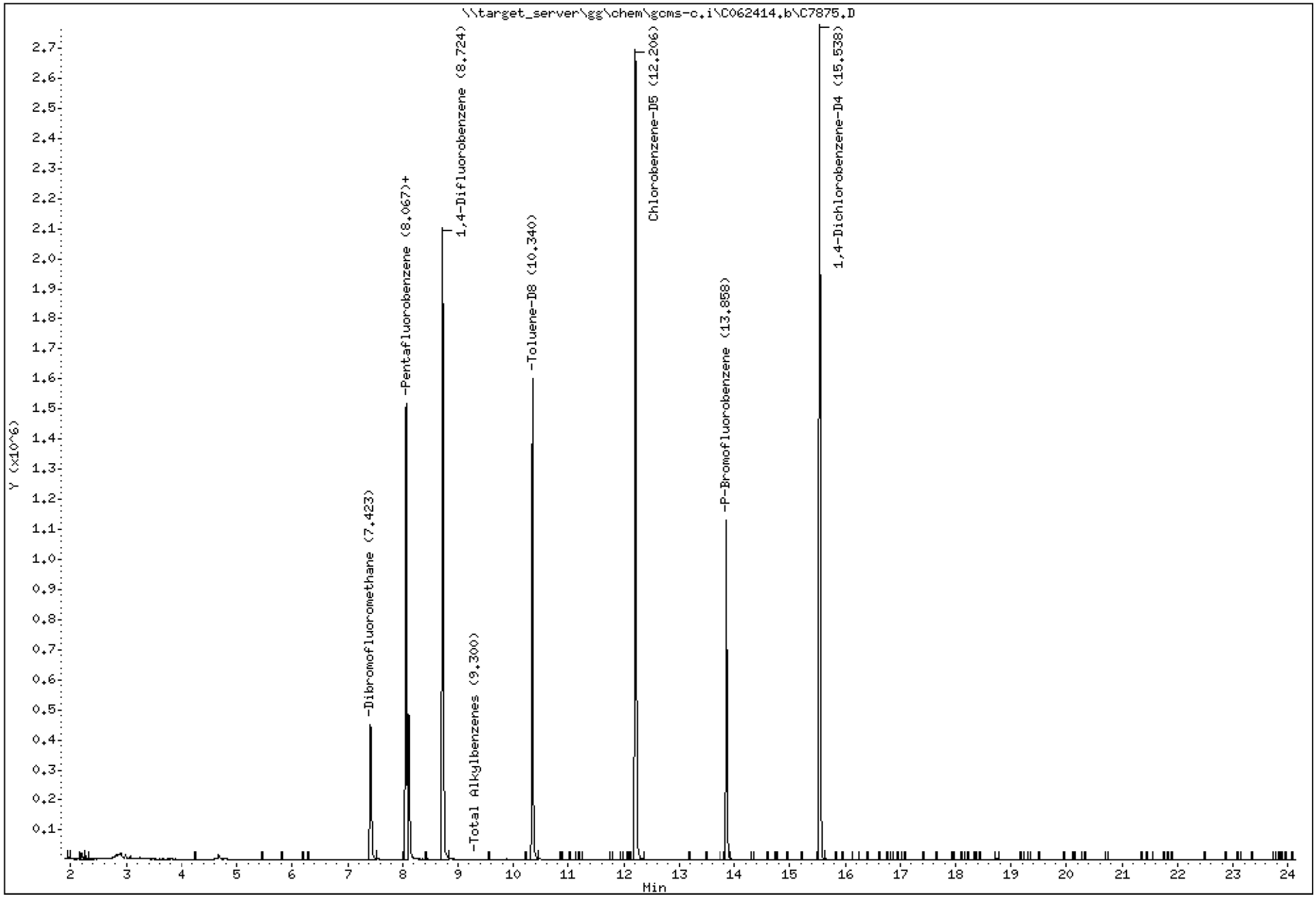
Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7875.D
Lab Smp Id: SH4521-24 Client Smp ID: FTA-SD-RB01-062014
Inj Date : 24-JUN-2014 11:27 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : SH4521-24
Misc Info : WG145321,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.423	7.427	(0.920)	281799	50.4064	50.4	
* 42 Pentafluorobenzene	168	8.066	8.063	(1.000)	983838	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.116	8.113	(1.006)	319791	56.2361	56.2	
* 49 1,4-Difluorobenzene	114	8.724	8.721	(1.000)	1510057	50.0000		
$ 55 Toluene-D8	98	10.340	10.344	(1.185)	878579	46.5296	46.5	
* 66 Chlorobenzene-D5	117	12.206	12.210	(1.000)	1558667	50.0000		
$ 76 P-Bromofluorobenzene	95	13.858	13.855	(1.588)	362612	44.7984	44.8	
* 91 1,4-Dichlorobenzene-D4	152	15.538	15.542	(1.000)	774160	50.0000		

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7875.D
Date : 24-JUN-2014 11:27
Client ID: FTA-SD-RB01-062014 Instrument: gcms-c.i
Sample Info: SH4521-24



Katahdin Analytical Services 1000132

Standards Data Section

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID: GCMS-C
Lab File IDs : C7529.D C7528.D C7531.D C7530.D C7525.D C7524.D
Column ID:
Calibration Date(s): 09-JUN-14 11:06, 09-JUN-14 15:05

	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Chloromethane	0.36067	0.37477	0.38896	0.34444	0.32717	0.29427	AVG		0.34838		9.85057	15.00000	O
Vinyl chloride	0.28054	0.31750	0.32999	0.28885	0.28949	0.26908	AVG		0.29591		7.81623	15.00000	O
Chloroethane	0.17901	0.16462	0.17094	0.09587	0.08089	0.08440	AVG		0.12929		36.16127	15.00000	W(
1,1-Dichloroethene	0.20580	0.22923	0.25783	0.23243	0.22922	0.22226	AVG		0.22946		7.35829	15.00000	O
Methylene Chloride	14097	50160	179771	423894	855390	1678621	LNR	-0.01951	0.27418		0.99991	0.99000	O
Acetone	0.06460	0.06654	0.06972	0.07727	0.06715	0.07976	AVG		0.07084		8.77506	15.00000	O
trans-1,2-Dichloroethene	0.25131	0.26074	0.30799	0.27317	0.27642	0.26721	AVG		0.27281		7.12806	15.00000	O
Methyl tert-butyl ether	0.43118	0.47331	0.52123	0.56092	0.55730	0.53347	AVG		0.51290		9.94732	15.00000	O
1,1-Dichloroethane	0.44999	0.48271	0.48143	0.43751	0.43722	0.43009	AVG		0.45316		5.14098	15.00000	O
cis-1,2-Dichloroethene	0.26421	0.30353	0.30914	0.29019	0.29419	0.28396	AVG		0.29087		5.46750	15.00000	O
Chloroform	0.43218	0.51340	0.48930	0.46393	0.45379	0.43874	AVG		0.46523		6.67792	15.00000	O
Carbon Tetrachloride	0.19297	0.25577	0.27377	0.25650	0.25874	0.25377	AVG		0.24859		11.33714	15.00000	O
1,1,1-Trichloroethane	0.35124	0.42939	0.46760	0.41840	0.41446	0.40943	AVG		0.41509		9.06663	15.00000	O
Benzene	0.62558	0.76372	0.76467	0.69321	0.65542	0.59016	AVG		0.68213		10.56398	15.00000	O
1,2-Dichloroethane	0.24680	0.23812	0.22346	0.21291	0.21525	0.21239	AVG		0.22482		6.44507	15.00000	O
Trichloroethene	0.16563	0.20678	0.20093	0.18257	0.18035	0.17958	AVG		0.18597		8.17064	15.00000	O
Toluene	0.38694	0.50253	0.49969	0.45113	0.43666	0.41010	AVG		0.44784		10.44874	15.00000	O
Tetrachloroethene	0.16453	0.20658	0.21128	0.19862	0.19923	0.19866	AVG		0.19648		8.38945	15.00000	O
1,1,2-Trichloroethane	0.13971	0.14734	0.13452	0.13175	0.13079	0.13057	AVG		0.13578		4.87292	15.00000	O
2-Hexanone	9712	85958	339437	1015896	1930811	3794126	LNR	-0.11295	0.08298		0.99789	0.99000	O
Chlorobenzene	0.51250	0.55602	0.53914	0.50703	0.49374	0.43541	AVG		0.50731		8.25413	15.00000	O
Ethylbenzene	0.26916	0.31927	0.31801	0.29884	0.29742	0.27642	AVG		0.29652		6.97344	15.00000	O
Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
m+p-Xylenes	0.28397	0.37980	0.38306	0.35178	0.33385	0.27841	AVG		0.33514		13.61210	15.00000	O
o-Xylene	0.24358	0.31611	0.34061	0.33529	0.33700	0.30577	AVG		0.31306		11.70764	15.00000	O
Styrene	0.40147	0.56900	0.58874	0.58969	0.57472	0.49523	AVG		0.53648		13.95163	15.00000	O
Isopropylbenzene	24777	198711	808839	1861815	3501823	5943207	QUA	0.01705	0.53061	0.09197	0.99935	0.99000	O
1,1,2,2-Tetrachloroethane	0.35916	0.38980	0.34740	0.34915	0.34018	0.33805	AVG		0.35396		5.39053	15.00000	O
1,3-Dichlorobenzene	0.71455	0.82898	0.79553	0.75113	0.74797	0.66917	AVG		0.75122		7.55316	15.00000	O
1,4-Dichlorobenzene	0.96005	0.91054	0.85404	0.81548	0.81360	0.71400	AVG		0.84462		10.13379	15.00000	O
1,2-Dichlorobenzene	0.63742	0.70594	0.70556	0.68265	0.68320	0.62055	AVG		0.67255		5.30217	15.00000	O
1,2,4-Trichlorobenzene	5435	55122	186489	551745	1069490	2340919	LNR	0.02199	0.42133		0.99949	0.99000	O
Methylcyclohexane	0.39760	0.48518	0.48364	0.44832	0.43498	0.45452	AVG		0.45070		7.26460	15.00000	O
Dibromofluoromethane	0.27013	0.30843	0.28405	0.28583	0.27893	0.27734	AVG		0.28412		4.62316	15.00000	
1,2-Dichloroethane-D4	0.29542	0.31967	0.29207	0.28049	0.27149	0.27486	AVG		0.28900		6.13252	15.00000	
Toluene-D8	0.57695	0.67926	0.69882	0.65565	0.60319	0.53742	AVG		0.62521		10.06179	15.00000	
P-Bromofluorobenzene	0.23366	0.27813	0.28189	0.27783	0.27069	0.26588	AVG		0.26801		6.63950	15.00000	

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab File IDs : C7529.D C7528.D C7531.D C7530.D C7525.D C7524.D

SDG: WE53-7
Instrument ID: GCMS-C
Column ID:
Calibration Date(s): 09-JUN-14 11:06
09-JUN-14 15:05

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7532A.D
Report Date: 11-Jun-2014 11:50

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: WG144357
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: WG144357-7 Client Smp ID: Independent Source
Level: LOW Operator: REC
Data Type: MS DATA SampleType: LCS
SpikeList File: IND_CHECK4.1.spk Quant Type: ISTD
Sublist File: SW8260OLM-S.sub
Method File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C826A08.m
Misc Info: WG144357,WG144357-4

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	71.0	142.06*	80-120
	2 Chloromethane	50.0	52.5	105.05	80-120
	3 Vinyl chloride	50.0	56.0	111.96	80-120
	4 Bromomethane	50.0	54.8	109.55	80-120
	5 Chloroethane	50.0	47.3	94.60	80-120
	6 Trichlorofluoromet	50.0	53.6	107.22	80-120
	7 Diethyl Ether	50.0	48.8	97.55	80-120
	8 Tertiary-butyl alc	250	197	78.72*	80-120
	9 1,1-Dichloroethene	50.0	51.6	103.26	80-120
	10 Carbon Disulfide	50.0	54.1	108.29	80-120
	11 Freon-113	50.0	42.8	85.72	80-120
	12 Iodomethane	50.0	57.8	115.51	80-120
	13 Acrolein	250	246	98.22	80-120
	14 Methylene Chloride	50.0	52.8	105.63	80-120
	15 Acetone	50.0	60.2	120.38*	80-120
	16 Isobutyl Alcohol	1000	894	89.40	80-120
	17 trans-1,2-Dichloro	50.0	50.1	100.19	80-120
	18 Allyl Chloride	50.0	53.0	106.00	80-120
	19 Methyl tert-butyl	100	105	105.47	80-120
	20 Acetonitrile	500	465	92.94	80-120
	21 Di-isopropyl ether	50.0	55.4	110.87	80-120
	22 Chloroprene	50.0	52.1	104.25	80-120
	23 Propionitrile	500	507	101.32	80-120
	24 Methacrylonitrile	500	527	105.49	80-120
	25 1,1-Dichloroethane	50.0	54.1	108.13	80-120
	26 Acrylonitrile	250	251	100.53	80-120
	27 Ethyl tertiary-but	50.0	53.3	106.56	80-120
	28 Vinyl Acetate	50.0	57.6	115.14	80-120
	29 cis-1,2-Dichloroet	50.0	54.2	108.46	80-120
M	30 1,2-Dichloroethyle	100	104	104.33	80-120
	31 Methyl Methacrylat	50.0	48.0	95.99	80-120
	32 2,2-Dichloropropan	50.0	51.8	103.60	80-120
	33 Bromochloromethane	50.0	51.1	102.23	80-120
	34 Chloroform	50.0	53.7	107.40	80-120
	35 Carbon Tetrachlori	50.0	55.7	111.47	80-120
	36 Tetrahydrofuran	50.0	47.9	95.82	80-120
	38 1,1,1-Trichloroeth	50.0	53.4	106.89	80-120
	39 1,1-Dichloropropen	50.0	59.9	119.86	80-120
	40 2-Butanone	50.0	57.2	114.46	80-120
	41 Benzene	50.0	57.1	114.25	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7532A.D
Report Date: 11-Jun-2014 11:50

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	53.5	107.07	80-120
	44	Ethyl Methacrylate	50.0	48.2	96.48	80-120
	46	Tertiary-amyl meth	50.0	50.8	101.72	80-120
	47	1,2-Dichloroethane	50.0	55.9	111.87	80-120
	48	Trichloroethene	50.0	54.8	109.68	80-120
	50	Dibromomethane	50.0	50.8	101.69	80-120
	51	1,2-Dichloropropan	50.0	58.6	117.23	80-120
	52	Bromodichlorometha	50.0	58.2	116.37	80-120
	53	cis-1,3-dichloropr	50.0	60.6	121.19*	80-120
	54	1,4-Dioxane	1000	858	85.83	80-120
	56	2-Chloroethylvinyl	50.0	58.9	117.85	80-120
	57	Toluene	50.0	58.0	115.98	80-120
	58	4-methyl-2-pentano	50.0	50.9	101.77	80-120
	59	Tetrachloroethene	50.0	46.9	93.77	80-120
	60	trans-1,3-Dichloro	50.0	59.9	119.86	80-120
	61	1,1,2-Trichloroeth	50.0	55.0	109.97	80-120
	62	Dibromochlorometha	50.0	48.3	96.62	80-120
	63	1,3-Dichloropropan	50.0	49.6	99.28	80-120
	64	1,2-Dibromoethane	50.0	51.4	102.83	80-120
	65	2-Hexanone	50.0	44.6	89.19	80-120
	67	Chlorobenzene	50.0	56.0	111.95	80-120
	152	1-Chlorohexane	50.0	50.2	100.38	80-120
	68	Ethylbenzene	50.0	52.1	104.26	80-120
	69	1,1,1,2-Tetrachlor	50.0	53.1	106.22	80-120
M	70	Xylenes (total)	150	172	114.66	80-120
	71	m+p-Xylenes	100	112	112.43	80-120
	72	o-Xylene	50.0	59.6	119.12	80-120
	73	Styrene	50.0	56.8	113.63	80-120
	74	Bromoform	50.0	52.8	105.68	80-120
	75	Isopropylbenzene	50.0	55.8	111.57	80-120
	77	cis-1,4-Dichloro-2	50.0	43.6	87.17	80-120
	78	trans-1,4-Dichloro	50.0	42.7	85.34	80-120
	79	Bromobenzene	50.0	55.1	110.13	80-120
	80	N-Propylbenzene	50.0	56.5	113.07	80-120
	81	1,1,2,2-Tetrachlor	50.0	48.7	97.48	80-120
	82	1,3,5-Trimethylben	50.0	48.3	96.57	80-120
	83	2-Chlorotoluene	50.0	58.3	116.53	80-120
	84	1,2,3-Trichloropro	50.0	48.0	95.96	80-120
	85	4-Chlorotoluene	50.0	61.2	122.42*	80-120
	86	tert-Butylbenzene	50.0	57.8	115.71	80-120
	87	Pentachloroethane	50.0	51.8	103.59	80-120
	88	1,2,4-Trimethylben	50.0	49.5	98.97	80-120
	89	P-Isopropyltoluene	50.0	52.2	104.49	80-120
	90	1,3-Dichlorobenzen	50.0	55.9	111.77	80-120
	92	1,4-Dichlorobenzen	50.0	49.1	98.28	80-120
	93	N-Butylbenzene	50.0	50.0	99.98	80-120
	94	sec-Butylbenzene	50.0	53.7	107.37	80-120
	95	1,2-Dichlorobenzen	50.0	56.9	113.74	80-120
	96	1,2-Dibromo-3-Chlo	50.0	42.5	85.01	80-120
	97	1,3,5-Trichloroben	50.0	47.1	94.25	80-120
	98	Hexachlorobutadien	50.0	39.6	79.14*	80-120
	99	1,2,4-Trichloroben	50.0	40.1	80.29	80-120
	100	1,2,3-Trimethylben	50.0	49.9	99.80	80-120
	101	Naphthalene	50.0	36.1	72.27*	80-120

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7532A.D
Report Date: 11-Jun-2014 11:50

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	35.1	70.14*	80-120
103 Methyl Acetate	50.0	50.5	101.06	80-120
104 Methylcyclohexane	50.0	46.4	92.79	80-120
M 153 Total Alkylbenzene	350	368	105.17	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	43.4	86.91	68-128
$ 45 1,2-Dichloroethane	50.0	43.5	87.02	67-135
$ 55 Toluene-D8	50.0	47.3	94.56	65-128
$ 76 P-Bromofluorobenze	50.0	47.5	94.96	56-133

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7524.D
Report Date: 11-Jun-2014 11:49

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C060914B.b\C7524.D
Lab Smp Id: WG144357-6 Client Smp ID: Initial Calibration
Inj Date : 09-JUN-2014 11:06 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG144357-6
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C060914B.b\C826A08.m
Meth Date : 11-Jun-2014 11:49 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 11:06 Cal File: C7524.D
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.002	2.000	(0.248)	1214646	200.000	187	
2	Chloromethane	50	2.238	2.236	(0.278)	1793058	200.000	169	
3	Vinyl chloride	62	2.338	2.343	(0.290)	1639596	200.000	182	
4	Bromomethane	94	2.746	2.744	(0.340)	1251120	200.000	193	
5	Chloroethane	64	2.896	2.894	(0.359)	514305	200.000	130	
6	Trichlorofluoromethane	101	3.075	3.080	(0.381)	2924338	200.000	211(A)	
7	Diethyl Ether	59	3.518	3.509	(0.436)	1121484	200.000	208(A)	
8	Tertiary-butyl alcohol	59	5.392	5.361	(0.668)	579119	1000.00	999	
9	1,1-Dichloroethene	96	3.776	3.773	(0.468)	1354328	200.000	194	
10	Carbon Disulfide	76	3.804	3.809	(0.472)	3969759	200.000	190	
11	Freon-113	151	3.833	3.838	(0.475)	1050849	200.000	188	
12	Iodomethane	142	3.976	3.981	(0.493)	1803599	200.000	193	
13	Acrolein	56	4.298	4.288	(0.533)	1359022	1000.00	1130(A)	
14	Methylene Chloride	84	4.677	4.681	(0.580)	1678621	200.000	200	
15	Acetone	43	4.777	4.774	(0.592)	2430131	1000.00	1120(A)	
16	Isobutyl Alcohol	43	8.287	8.271	(1.027)	1178671	4000.00	4000	
17	trans-1,2-Dichloroethene	96	4.948	4.946	(0.614)	1628181	200.000	196	
18	Allyl Chloride	41	4.505	4.502	(0.559)	2309955	200.000	200	
19	Methyl tert-butyl ether	73	5.156	5.153	(0.639)	6501196	400.000	416(A)	
20	Acetonitrile	39	5.570	5.568	(0.691)	482592	2000.00	2230(A)	
21	Di-isopropyl ether	45	5.813	5.811	(0.721)	4416682	200.000	204(A)	
22	Chloroprene	53	5.942	5.940	(0.737)	2267280	200.000	204(A)	
23	Propionitrile	54	8.001	7.985	(0.992)	2024277	2000.00	2170(A)	
24	Methacrylonitrile	41	8.023	8.013	(0.995)	6236414	2000.00	1650	

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7524.D
Report Date: 11-Jun-2014 11:49

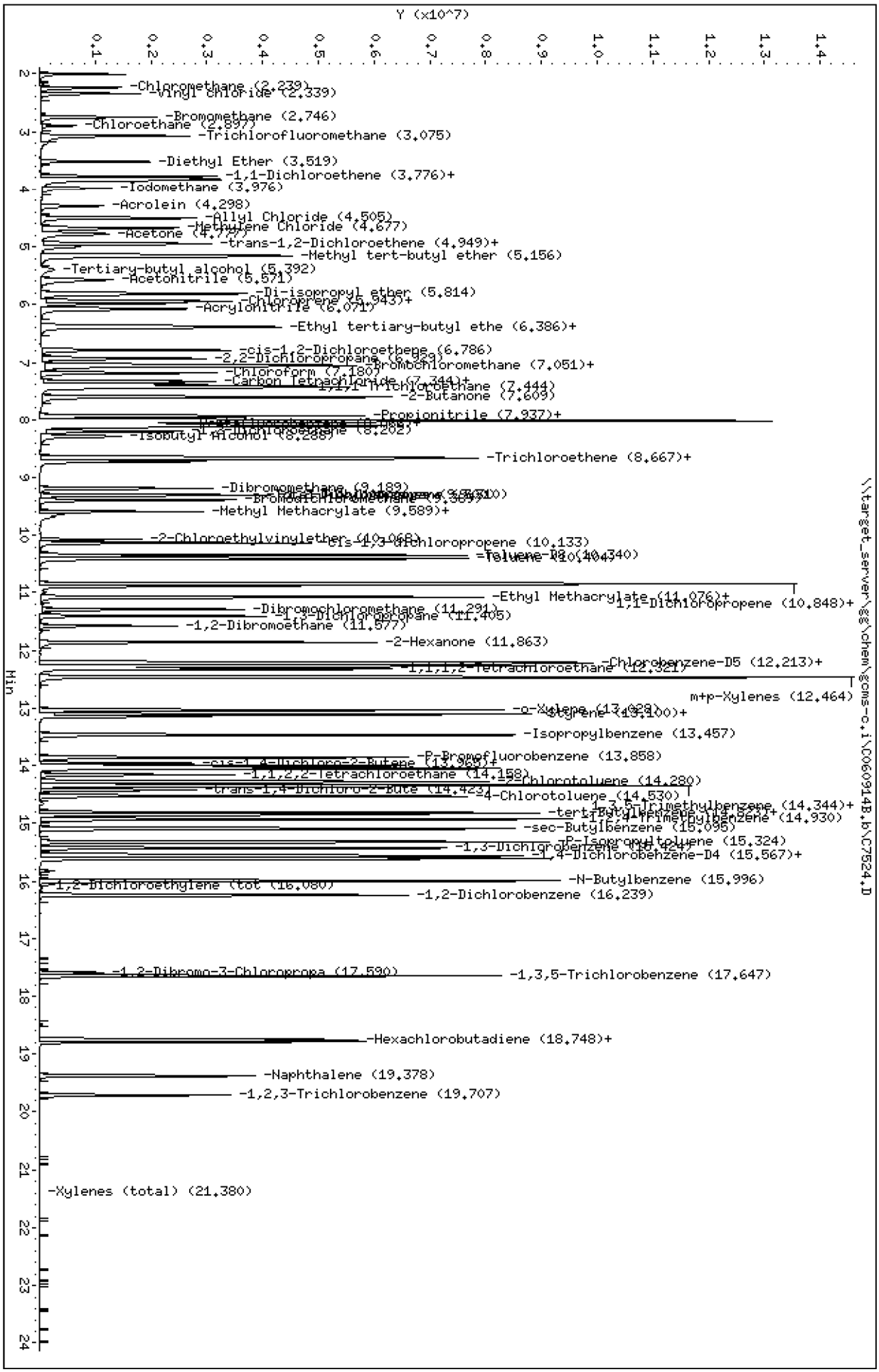
		QUANT SIG					AMOUNTS CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.978	5.975	(0.741)	2620651	200.000	190	
	26 Acrylonitrile	52	6.078	6.068	(0.754)	2257516	1000.00	1070(A)	
	27 Ethyl tertiary-butyl ether	59	6.378	6.376	(0.791)	3924643	200.000	216(A)	
	28 Vinyl Acetate	43	6.400	6.397	(0.734)	3252007	200.000	201(A)	
	29 cis-1,2-Dichloroethene	96	6.786	6.783	(0.841)	1730250	200.000	195	
	31 Methyl Methacrylate	41	9.589	9.586	(1.099)	1290897	200.000	203(A)	
	32 2,2-Dichloropropane	77	6.936	6.934	(0.860)	2235596	200.000	208(A)	
	33 Bromochloromethane	128	7.065	7.062	(0.876)	851528	200.000	189	
	34 Chloroform	83	7.179	7.177	(0.890)	2673410	200.000	189	
	35 Carbon Tetrachloride	117	7.344	7.341	(0.842)	2232327	200.000	204(A)	
	36 Tetrahydrofuran	42	7.386	7.384	(0.916)	1983615	1000.00	1190(A)	
$	37 Dibromofluoromethane	113	7.429	7.427	(0.921)	1689895	200.000	195	
	38 1,1,1-Trichloroethane	97	7.444	7.441	(0.923)	2494769	200.000	197	
	39 1,1-Dichloropropene	75	10.890	10.888	(1.248)	2161569	200.000	217(A)	
	40 2-Butanone	43	7.608	7.606	(0.943)	3035936	1000.00	1140(A)	
	41 Benzene	78	7.937	7.935	(0.910)	5191425	200.000	173	
*	42 Pentafluorobenzene	168	8.066	8.063	(1.000)	1523329	50.0000		
	43 Cyclohexane	56	7.050	7.048	(0.874)	2339142	200.000	200	
	44 Ethyl Methacrylate	69	11.076	11.081	(1.270)	1903745	200.000	201(A)	
$	45 1,2-Dichloroethane-D4	65	8.116	8.113	(1.006)	1674820	200.000	190	
	46 Tertiary-amyl methyl ether	73	8.101	8.099	(1.004)	3478534	200.000	224(A)	
	47 1,2-Dichloroethane	62	8.202	8.199	(0.940)	1868283	200.000	189	
	48 Trichloroethene	95	8.673	8.670	(0.994)	1579675	200.000	193	
*	49 1,4-Difluorobenzene	114	8.724	8.721	(1.000)	2199169	50.0000		
	50 Dibromomethane	93	9.188	9.186	(1.053)	1018286	200.000	197	
	51 1,2-Dichloropropane	63	9.310	9.307	(1.067)	1462893	200.000	202(A)	
	52 Bromodichloromethane	83	9.388	9.386	(1.076)	2111836	200.000	206(A)	
	53 cis-1,3-dichloropropene	75	10.132	10.130	(1.161)	2484281	200.000	214(A)	
	54 1,4-Dioxane	88	9.639	9.629	(1.105)	391601	4000.00	4040(A)	
$	55 Toluene-D8	98	10.339	10.344	(1.185)	4727488	200.000	172	
	56 2-Chloroethylvinylether	63	10.068	10.065	(1.154)	703216	200.000	200(A)	
	57 Toluene	92	10.404	10.401	(1.193)	3607555	200.000	183	
	58 4-methyl-2-pentanone	43	10.854	10.845	(1.244)	4546977	1000.00	984	
	59 Tetrachloroethene	164	10.840	10.845	(0.888)	1838171	200.000	202(A)	
	60 trans-1,3-Dichloropropene	75	10.890	10.888	(1.248)	2161569	200.000	217(A)	
	61 1,1,2-Trichloroethane	83	11.076	11.073	(1.270)	1148596	200.000	192	
	62 Dibromochloromethane	129	11.290	11.288	(0.924)	1933049	200.000	213(A)	
	63 1,3-Dichloropropane	76	11.405	11.402	(0.934)	2345723	200.000	188	
	64 1,2-Dibromoethane	107	11.576	11.574	(1.327)	1615509	200.000	209(A)	
	65 2-Hexanone	43	11.862	11.860	(0.971)	3794126	1000.00	983	
*	66 Chlorobenzene-D5	117	12.213	12.210	(1.000)	2313211	50.0000		
	67 Chlorobenzene	112	12.234	12.232	(1.002)	4028759	200.000	172	
	152 1-Chlorohexane	91	12.206	12.203	(0.999)	2487278	200.000	178	
	68 Ethylbenzene	106	12.270	12.268	(1.005)	2557683	200.000	186	
	69 1,1,1,2-Tetrachloroethane	131	12.320	12.318	(1.009)	1902495	200.000	203(A)	
	71 m+p-Xylenes	106	12.463	12.453	(1.020)	5152194	400.000	332	
	72 o-Xylene	106	13.028	13.025	(1.067)	2829218	200.000	195	
	73 Styrene	104	13.099	13.097	(1.073)	4582292	200.000	185	
	74 Bromoform	173	13.142	13.140	(1.076)	1474179	200.000	230(A)	
	75 Isopropylbenzene	105	13.464	13.462	(0.866)	5943207	200.000	199	
$	76 P-Bromofluorobenzene	95	13.857	13.855	(1.588)	2338868	200.000	198	
	77 cis-1,4-Dichloro-2-Butene	53	13.965	13.962	(0.898)	608618	200.000	203(A)	
	78 trans-1,4-Dichloro-2-Butene	53	14.422	14.420	(0.928)	561959	200.000	202(A)	
	79 Bromobenzene	156	14.007	14.005	(0.901)	2392059	200.000	197	

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7524.D
Report Date: 11-Jun-2014 11:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.050	14.048	(0.904)	6483435	200.000	199	
81	1,1,2,2-Tetrachloroethane	83	14.158	14.155	(0.911)	1874182	200.000	191	
82	1,3,5-Trimethylbenzene	105	14.344	14.341	(0.923)	5450469	200.000	199	
83	2-Chlorotoluene	91	14.279	14.277	(0.919)	4471298	200.000	169	
84	1,2,3-Trichloropropane	75	14.358	14.355	(0.924)	1433743	200.000	189	
85	4-Chlorotoluene	91	14.529	14.520	(0.935)	4543092	200.000	172	
86	tert-Butylbenzene	119	14.815	14.813	(0.953)	6128394	200.000	180	
87	Pentachloroethane	117	14.851	14.849	(0.955)	1678348	200.000	208(A)	
88	1,2,4-Trimethylbenzene	105	14.930	14.927	(0.960)	5421057	200.000	199	
89	P-Isopropyltoluene	119	15.323	15.313	(0.986)	5762148	200.000	199	
90	1,3-Dichlorobenzene	146	15.423	15.421	(0.992)	3709934	200.000	178	
* 91	1,4-Dichlorobenzene-D4	152	15.545	15.542	(1.000)	1386021	50.0000		
92	1,4-Dichlorobenzene	146	15.566	15.564	(1.001)	3958501	200.000	169	
93	N-Butylbenzene	91	15.995	15.993	(1.029)	5339299	200.000	199	
94	sec-Butylbenzene	105	15.094	15.092	(0.971)	6351847	200.000	199	
95	1,2-Dichlorobenzene	146	16.245	16.242	(1.045)	3440375	200.000	184	
96	1,2-Dibromo-3-Chloropropane	75	17.590	17.594	(1.132)	300342	200.000	203(A)	
97	1,3,5-Trichlorobenzene	180	17.647	17.644	(1.135)	3331640	200.000	196	
98	Hexachlorobutadiene	225	18.748	18.746	(1.206)	1369550	200.000	201(A)	
99	1,2,4-Trichlorobenzene	180	18.784	18.788	(1.208)	2340919	200.000	202(A)	
100	1,2,3-Trimethylbenzene	105	15.609	15.607	(1.004)	5373796	200.000	155	
101	Naphthalene	128	19.377	19.375	(1.247)	3754209	200.000	200(A)	
102	1,2,3-Trichlorobenzene	180	19.706	19.711	(1.268)	1413223	200.000	200(A)	
103	Methyl Acetate	43	4.998	4.996	(0.620)	1124356	200.000	231(A)	
104	Methylcyclohexane	83	8.652	8.650	(1.073)	2769533	200.000	202(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.


Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7524.D
Date : 09-JUN-2014 11:06
Client ID: Initial Calibration
Sample Info: WG144357-6
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
Y (x10^7)
Min
-Chloromethane (2.239)
-Vinyl Chloride (2.339)
-Bromomethane (2.746)
-Chloroethane (2.897)
-Trichlorofluoromethane (3.075)
-Diethyl Ether (3.519)
-1,1-Dichloroethene (3.776)+
-Iodomethane (3.976)
-Acrolein (4.298)
-Allyl Chloride (4.505)
-Methylene Chloride (4.677)
-Acetone (4.757)
-trans-1,2-Dichloroethene (4.949)+
-Methyl tert-butyl ether (5.156)
-Tertiary-butyl alcohol (5.392)
-Acetonitrile (5.571)
-Di-isopropyl ether (5.814)
-Acrylonitrile (6.071)
-Ethyl tertiary-butyl ethe (6.386)+
-cis-1,2-Dichloroethene (6.786)
-2,2-Dichloropropane (6.929)
-Bromochloromethane (7.051)+
-Chloroform (7.180)
-Carbon tetrachloride (7.344)+
-1,1,1-Trichloroethane (7.444)
-2-Butanone (7.609)
-Propionitrile (7.937)+
-Isobutyl Alcohol (8.288)
-Trichloroethene (8.667)+
-Dibromomethane (9.189)
-Methyl Methacrylate (9.589)+
-2-Chloroethylvinylether (10.068)
-Toluene-D8 (10.340)
-Ethyl Methacrylate (11.076)+
-Dibromochloromethane (11.291)
-1,2-Dibromoethane (11.577)
-2-Hexanone (11.863)
-Chlorobenzene-D5 (12.213)+
-1,1,1,2-Tetrachloroethane (12.321)
m+p-Xylenes (12.464)
-o-Xylene (13.028)
-Isopropylbenzene (13.457)
-P-Bromofluorobenzene (13.858)
-1,1,2,2-Tetrachloroethane (14.158)
-2-Chlorotoluene (14.280)
-4-Chlorotoluene (14.530)
-1,3,5-Trimethylbenzene (14.930)
-sec-Butylbenzene (15.095)
-P-Isopropyltoluene (15.324)
-1,4-Dichlorobenzene-D4 (15.567)+
-N-Butylbenzene (15.996)
-1,2-Dichlorobenzene (16.239)
-1,2-Dibromo-3-Chloropropa (17.590)
-1,3,5-Trichlorobenzene (17.647)
-Hexachlorobutadiene (18.748)+
-Naphthalene (19.378)
-1,2,3-Trichlorobenzene (19.707)
-Xylenes (total) (21.380)
\\target_server\gg\chem\gcms-c.i\C060914B.b\C7524.D

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7525.D
Report Date: 11-Jun-2014 11:49

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C060914B.b\C7525.D
Lab Smp Id: WG144357-5 Client Smp ID: Initial Calibration
Inj Date : 09-JUN-2014 11:36 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG144357-5
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C060914B.b\C826A08.m
Meth Date : 11-Jun-2014 11:49 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 11:36 Cal File: C7525.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

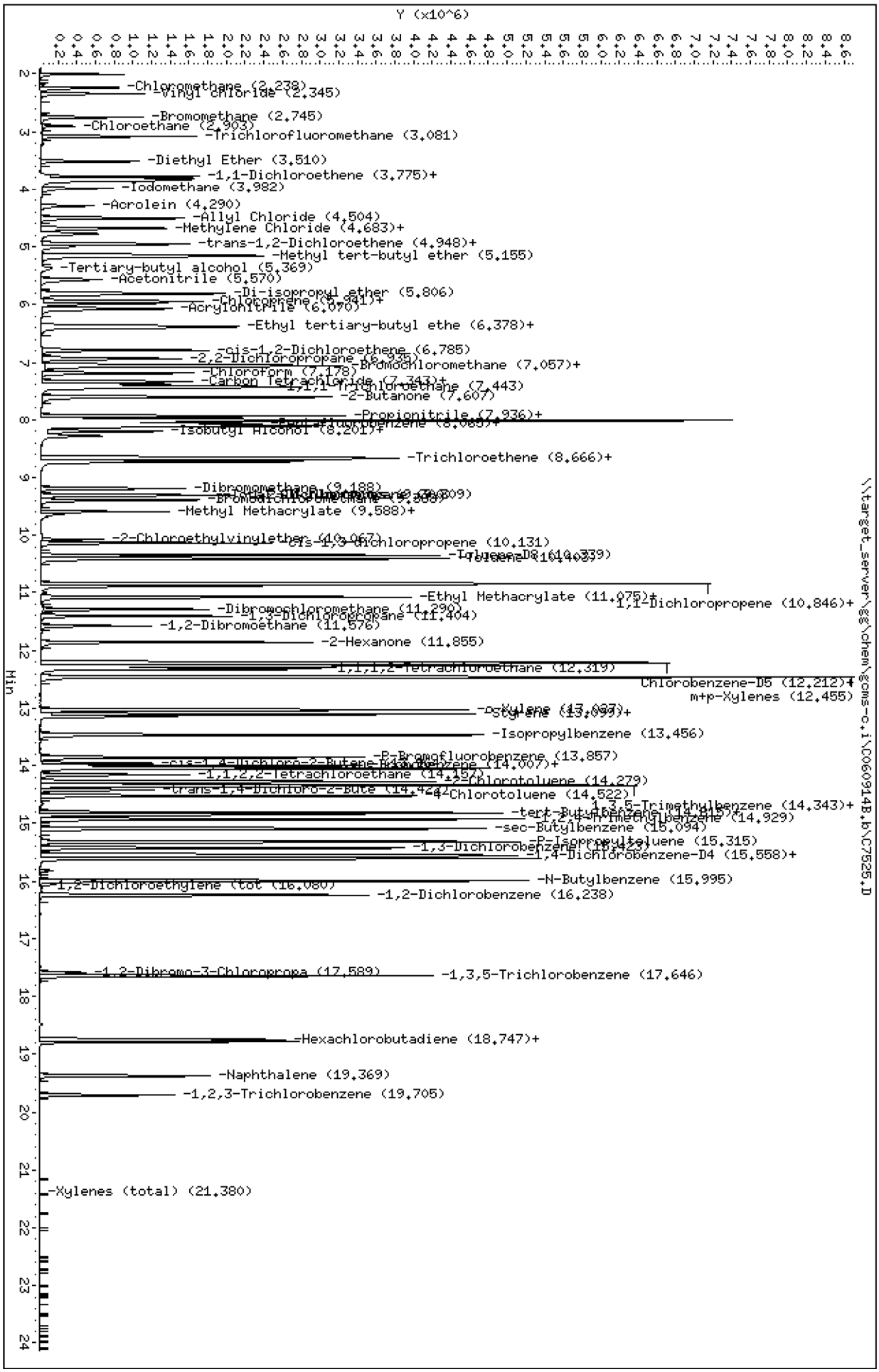
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.001	2.000	(0.248)	651908	100.000	98.8	
2	Chloromethane	50	2.244	2.236	(0.278)	1014557	100.000	93.9	
3	Vinyl chloride	62	2.344	2.343	(0.291)	897711	100.000	97.8	
4	Bromomethane	94	2.745	2.744	(0.340)	623940	100.000	94.5	
5	Chloroethane	64	2.902	2.894	(0.360)	250847	100.000	62.6	
6	Trichlorofluoromethane	101	3.081	3.080	(0.382)	1346006	100.000	95.5	
7	Diethyl Ether	59	3.510	3.509	(0.435)	573138	100.000	104	
8	Tertiary-butyl alcohol	59	5.369	5.361	(0.666)	233595	500.000	506	
9	1,1-Dichloroethene	96	3.774	3.773	(0.468)	710827	100.000	99.9	
10	Carbon Disulfide	76	3.810	3.809	(0.472)	2094480	100.000	98.3	
11	Freon-113	151	3.839	3.838	(0.476)	560412	100.000	98.7	
12	Iodomethane	142	3.982	3.981	(0.494)	1069324	100.000	112	
13	Acrolein	56	4.289	4.288	(0.532)	632953	500.000	515	
14	Methylene Chloride	84	4.683	4.681	(0.581)	855390	100.000	99.6	
15	Acetone	43	4.776	4.774	(0.592)	1041226	500.000	474	
16	Isobutyl Alcohol	43	8.279	8.271	(1.027)	470294	2000.00	2010	
17	trans-1,2-Dichloroethene	96	4.947	4.946	(0.613)	857201	100.000	101	
18	Allyl Chloride	41	4.504	4.502	(0.558)	1211077	100.000	103	
19	Methyl tert-butyl ether	73	5.154	5.153	(0.639)	3456378	200.000	217	
20	Acetonitrile	39	5.562	5.568	(0.690)	207204	1000.00	940	
21	Di-isopropyl ether	45	5.805	5.811	(0.720)	2410113	100.000	110	
22	Chloroprene	53	5.941	5.940	(0.737)	1145264	100.000	101	
23	Propionitrile	54	7.993	7.985	(0.991)	944004	1000.00	994	
24	Methacrylonitrile	41	8.015	8.013	(0.994)	3459098	1000.00	899	

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7525.D
Report Date: 11-Jun-2014 11:49

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.977	5.975	(0.741)	1355840	100.000	96.5	
	26	Acrylonitrile	52	6.070	6.068	(0.753)	1066321	500.000	495	
	27	Ethyl tertiary-butyl ether	59	6.377	6.376	(0.791)	2042584	100.000	111	
	28	Vinyl Acetate	43	6.399	6.397	(0.734)	1602357	100.000	98.8	
	29	cis-1,2-Dichloroethene	96	6.785	6.783	(0.841)	912289	100.000	101	
	31	Methyl Methacrylate	41	9.588	9.586	(1.099)	590479	100.000	93.5	
	32	2,2-Dichloropropane	77	6.935	6.934	(0.860)	1154329	100.000	106	
	33	Bromochloromethane	128	7.064	7.062	(0.876)	454616	100.000	99.2	
	34	Chloroform	83	7.185	7.177	(0.891)	1407227	100.000	97.5	
	35	Carbon Tetrachloride	117	7.342	7.341	(0.842)	1152245	100.000	104	
	36	Tetrahydrofuran	42	7.385	7.384	(0.916)	878156	500.000	518	
$	37	Dibromofluoromethane	113	7.428	7.427	(0.921)	864981	100.000	98.2	
	38	1,1,1-Trichloroethane	97	7.443	7.441	(0.923)	1285252	100.000	99.8	
	39	1,1-Dichloropropene	75	10.889	10.888	(1.248)	1084323	100.000	108	
	40	2-Butanone	43	7.600	7.606	(0.942)	1394478	500.000	515	
	41	Benzene	78	7.936	7.935	(0.910)	2918752	100.000	96.1	
*	42	Pentafluorobenzene	168	8.065	8.063	(1.000)	1550514	50.0000		
	43	Cyclohexane	56	7.049	7.048	(0.874)	1191219	100.000	99.7	
	44	Ethyl Methacrylate	69	11.075	11.081	(1.270)	926300	100.000	97.6	
$	45	1,2-Dichloroethane-D4	65	8.115	8.113	(1.006)	841885	100.000	93.9	
	46	Tertiary-amyl methyl ether	73	8.100	8.099	(1.004)	1716549	100.000	109	
	47	1,2-Dichloroethane	62	8.200	8.199	(0.940)	958542	100.000	95.7	
	48	Trichloroethene	95	8.672	8.670	(0.994)	803159	100.000	97.0	
*	49	1,4-Difluorobenzene	114	8.722	8.721	(1.000)	2226613	50.0000		
	50	Dibromomethane	93	9.187	9.186	(1.053)	504763	100.000	96.6	
	51	1,2-Dichloropropane	63	9.309	9.307	(1.067)	725744	100.000	98.9	
	52	Bromodichloromethane	83	9.387	9.386	(1.076)	1085138	100.000	104	
	53	cis-1,3-dichloropropene	75	10.131	10.130	(1.161)	1303633	100.000	111	
	54	1,4-Dioxane	88	9.630	9.629	(1.104)	189222	2000.00	1940	
$	55	Toluene-D8	98	10.338	10.344	(1.185)	2686132	100.000	96.5	
	56	2-Chloroethylvinylether	63	10.067	10.065	(1.154)	266471	100.000	98.7	
	57	Toluene	92	10.403	10.401	(1.193)	1944534	100.000	97.5	
	58	4-methyl-2-pentanone	43	10.846	10.845	(1.243)	2423016	500.000	513	
	59	Tetrachloroethene	164	10.846	10.845	(0.888)	882831	100.000	101	
	60	trans-1,3-Dichloropropene	75	10.889	10.888	(1.248)	1084323	100.000	108	
	61	1,1,2-Trichloroethane	83	11.075	11.073	(1.270)	582458	100.000	96.3	
	62	Dibromochloromethane	129	11.289	11.288	(0.924)	952965	100.000	110	
	63	1,3-Dichloropropane	76	11.404	11.402	(0.934)	1211499	100.000	101	
	64	1,2-Dibromoethane	107	11.575	11.574	(1.327)	788349	100.000	101	
	65	2-Hexanone	43	11.854	11.860	(0.971)	1930811	500.000	519	
*	66	Chlorobenzene-D5	117	12.212	12.210	(1.000)	2215552	50.0000		
	67	Chlorobenzene	112	12.233	12.232	(1.002)	2187814	100.000	97.3	
	152	1-Chlorohexane	91	12.204	12.203	(0.999)	1289606	100.000	96.5	
	68	Ethylbenzene	106	12.269	12.268	(1.005)	1317894	100.000	100	
	69	1,1,1,2-Tetrachloroethane	131	12.319	12.318	(1.009)	952171	100.000	106	
	71	m+p-Xylenes	106	12.455	12.453	(1.020)	2958636	200.000	199	
	72	o-Xylene	106	13.027	13.025	(1.067)	1493279	100.000	108	
	73	Styrene	104	13.098	13.097	(1.073)	2546649	100.000	107	
	74	Bromoform	173	13.141	13.140	(1.076)	708507	100.000	116	
	75	Isopropylbenzene	105	13.456	13.462	(0.866)	3501823	100.000	103	
$	76	P-Bromofluorobenzene	95	13.856	13.855	(1.589)	1205436	100.000	101	
	77	cis-1,4-Dichloro-2-Butene	53	13.956	13.962	(0.898)	271354	100.000	95.9	
	78	trans-1,4-Dichloro-2-Butene	53	14.421	14.420	(0.928)	253325	100.000	96.6	
	79	Bromobenzene	156	14.006	14.005	(0.901)	1216178	100.000	105	

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7525.D
Report Date: 11-Jun-2014 11:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.049	14.048	(0.904)	3958126	100.000	104	
81	1,1,2,2-Tetrachloroethane	83	14.156	14.155	(0.911)	901347	100.000	96.1	
82	1,3,5-Trimethylbenzene	105	14.342	14.341	(0.923)	3217253	100.000	103	
83	2-Chlorotoluene	91	14.278	14.277	(0.919)	2549027	100.000	101	
84	1,2,3-Trichloropropane	75	14.357	14.355	(0.924)	698998	100.000	96.4	
85	4-Chlorotoluene	91	14.521	14.520	(0.934)	2555650	100.000	101	
86	tert-Butylbenzene	119	14.814	14.813	(0.953)	3390267	100.000	104	
87	Pentachloroethane	117	14.850	14.849	(0.955)	837794	100.000	108	
88	1,2,4-Trimethylbenzene	105	14.929	14.927	(0.960)	3156056	100.000	103	
89	P-Isopropyltoluene	119	15.322	15.313	(0.986)	3419685	100.000	104	
90	1,3-Dichlorobenzene	146	15.422	15.421	(0.992)	1981809	100.000	99.6	
* 91	1,4-Dichlorobenzene-D4	152	15.544	15.542	(1.000)	1324791	50.0000		
92	1,4-Dichlorobenzene	146	15.565	15.564	(1.001)	2155699	100.000	96.3	
93	N-Butylbenzene	91	15.994	15.993	(1.029)	3184523	100.000	103	
94	sec-Butylbenzene	105	15.093	15.092	(0.971)	3846895	100.000	104	
95	1,2-Dichlorobenzene	146	16.237	16.242	(1.045)	1810201	100.000	102	
96	1,2-Dibromo-3-Chloropropane	75	17.589	17.594	(1.132)	132036	100.000	94.9	
97	1,3,5-Trichlorobenzene	180	17.646	17.644	(1.135)	1655813	100.000	102	
98	Hexachlorobutadiene	225	18.747	18.746	(1.206)	614586	100.000	94.5	
99	1,2,4-Trichlorobenzene	180	18.783	18.788	(1.208)	1069490	100.000	96.9	
100	1,2,3-Trimethylbenzene	105	15.608	15.607	(1.004)	3191411	100.000	96.6	
101	Naphthalene	128	19.376	19.375	(1.247)	1754909	100.000	98.8	
102	1,2,3-Trichlorobenzene	180	19.705	19.711	(1.268)	570236	100.000	95.2	
103	Methyl Acetate	43	4.997	4.996	(0.620)	525757	100.000	106	
104	Methylcyclohexane	83	8.651	8.650	(1.073)	1348877	100.000	96.5	



Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7525.D
Date : 09-JUN-2014 11:36
Client ID: Initial Calibration
Sample Info: WG144357-5
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

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Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7528.D
Report Date: 11-Jun-2014 11:49

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Data file : \\target_server\gg\chem\gcms-c.i\C060914B.b\C7528.D
Lab Smp Id: WG144357-2 Client Smp ID: Initial Calibration
Inj Date : 09-JUN-2014 13:08 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG144357-2
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C060914B.b\C826A08.m
Meth Date : 11-Jun-2014 11:49 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 13:08 Cal File: C7528.D
Als bottle: 5 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

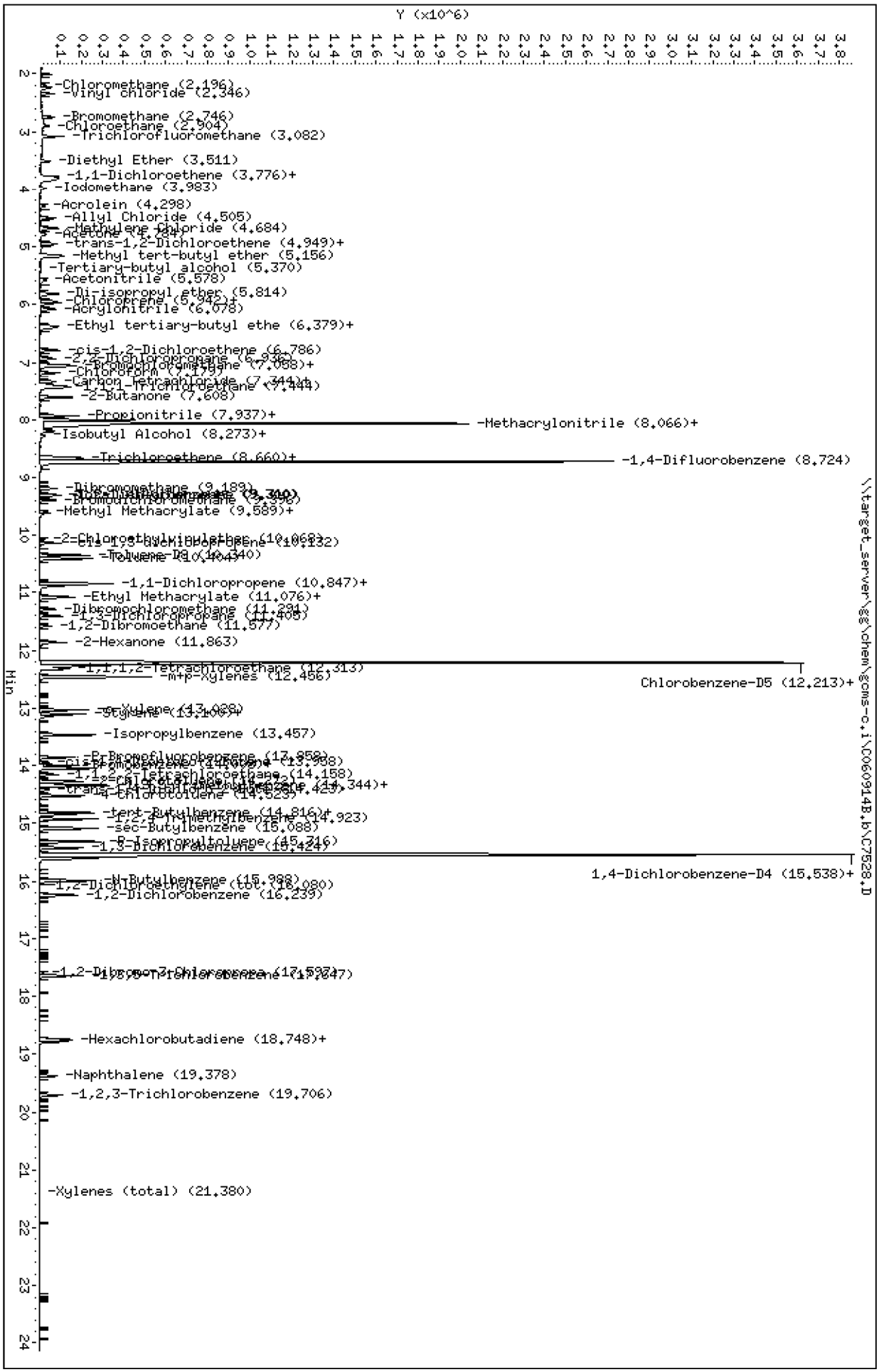
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.002	2.000	(0.248)	34673	5.00000	5.4	
2	Chloromethane	50	2.245	2.236	(0.278)	57078	5.00000	5.4	
3	Vinyl chloride	62	2.345	2.343	(0.291)	48355	5.00000	5.4	
4	Bromomethane	94	2.746	2.744	(0.340)	32128	5.00000	5.0	
5	Chloroethane	64	2.903	2.894	(0.360)	25071	5.00000	6.4	
6	Trichlorofluoromethane	101	3.082	3.080	(0.382)	74550	5.00000	5.4	
7	Diethyl Ether	59	3.511	3.509	(0.435)	25322	5.00000	4.7	
8	Tertiary-butyl alcohol	59	5.370	5.361	(0.666)	8679	25.0000	30.2	
9	1,1-Dichloroethene	96	3.776	3.773	(0.468)	34911	5.00000	5.0	
10	Carbon Disulfide	76	3.811	3.809	(0.473)	98576	5.00000	4.7	
11	Freon-113	151	3.840	3.838	(0.476)	24770	5.00000	4.4	
12	Iodomethane	142	3.983	3.981	(0.494)	38667	5.00000	4.1	
13	Acrolein	56	4.297	4.288	(0.533)	28233	25.0000	23.4	
14	Methylene Chloride	84	4.684	4.681	(0.581)	50160	5.00000	5.0	
15	Acetone	43	4.784	4.774	(0.593)	50672	25.0000	23.5	
16	Isobutyl Alcohol	43	8.273	8.271	(1.026)	16881	100.000	106	
17	trans-1,2-Dichloroethene	96	4.948	4.946	(0.614)	39710	5.00000	4.8	
18	Allyl Chloride	41	4.505	4.502	(0.559)	56388	5.00000	4.9	
19	Methyl tert-butyl ether	73	5.155	5.153	(0.639)	144170	10.0000	9.2	
20	Acetonitrile	39	5.570	5.568	(0.691)	11062	50.0000	51.1	
21	Di-isopropyl ether	45	5.820	5.811	(0.722)	108843	5.00000	5.0	
22	Chloroprene	53	5.942	5.940	(0.737)	55313	5.00000	5.0	
23	Propionitrile	54	7.994	7.985	(0.991)	51250	50.0000	55.0	
24	Methacrylonitrile	41	8.008	8.013	(0.993)	223742	50.0000	59.2	

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7528.D
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			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.978	5.975	(0.741)	73516	5.00000	5.3	
	26	Acrylonitrile	52	6.078	6.068	(0.754)	58963	25.0000	27.8	
	27	Ethyl tertiary-butyl ether	59	6.378	6.376	(0.791)	89050	5.00000	4.9	
	28	Vinyl Acetate	43	6.407	6.397	(0.734)	63262	5.00000	5.6	
	29	cis-1,2-Dichloroethene	96	6.793	6.783	(0.842)	46228	5.00000	5.2	
	31	Methyl Methacrylate	41	9.596	9.586	(1.100)	20036	5.00000	6.1	
	32	2,2-Dichloropropane	77	6.936	6.934	(0.860)	54277	5.00000	5.0	
	33	Bromochloromethane	128	7.065	7.062	(0.876)	23987	5.00000	5.3	
	34	Chloroform	83	7.179	7.177	(0.890)	78191	5.00000	5.5	
	35	Carbon Tetrachloride	117	7.343	7.341	(0.842)	55464	5.00000	5.1	
	36	Tetrahydrofuran	42	7.393	7.384	(0.917)	38877	25.0000	23.4	
$	37	Dibromofluoromethane	113	7.429	7.427	(0.921)	46974	5.00000	5.4	
	38	1,1,1-Trichloroethane	97	7.444	7.441	(0.923)	65396	5.00000	5.2	
	39	1,1-Dichloropropene	75	10.890	10.888	(1.248)	47546	5.00000	4.8	
	40	2-Butanone	43	7.608	7.606	(0.943)	66823	25.0000	25.1	
	41	Benzene	78	7.937	7.935	(0.910)	165617	5.00000	5.6	
*	42	Pentafluorobenzene	168	8.066	8.063	(1.000)	1522996	50.0000		
	43	Cyclohexane	56	7.050	7.048	(0.874)	63357	5.00000	4.9	
	44	Ethyl Methacrylate	69	11.083	11.081	(1.270)	32500	5.00000	5.1	
$	45	1,2-Dichloroethane-D4	65	8.116	8.113	(1.006)	48686	5.00000	5.5	
	46	Tertiary-amyl methyl ether	73	8.108	8.099	(1.005)	69384	5.00000	4.5	
	47	1,2-Dichloroethane	62	8.201	8.199	(0.940)	51637	5.00000	5.3	
	48	Trichloroethene	95	8.673	8.670	(0.994)	44841	5.00000	5.6	
*	49	1,4-Difluorobenzene	114	8.723	8.721	(1.000)	2168552	50.0000		
	50	Dibromomethane	93	9.188	9.186	(1.053)	26064	5.00000	5.1	
	51	1,2-Dichloropropane	63	9.310	9.307	(1.067)	36840	5.00000	5.2	
	52	Bromodichloromethane	83	9.396	9.386	(1.077)	50389	5.00000	5.0	
	53	cis-1,3-dichloropropene	75	10.132	10.130	(1.161)	56392	5.00000	4.9	
	54	1,4-Dioxane	88	9.639	9.629	(1.105)	11409	100.000	143	
$	55	Toluene-D8	98	10.339	10.344	(1.185)	147301	5.00000	5.4	
	56	2-Chloroethylvinylether	63	10.068	10.065	(1.154)	11668	5.00000	5.1	
	57	Toluene	92	10.404	10.401	(1.193)	108976	5.00000	5.6	
	58	4-methyl-2-pentanone	43	10.847	10.845	(1.243)	133202	25.0000	19.0	
	59	Tetrachloroethene	164	10.840	10.845	(0.888)	44863	5.00000	5.2	
	60	trans-1,3-Dichloropropene	75	10.890	10.888	(1.248)	47546	5.00000	4.8	
	61	1,1,2-Trichloroethane	83	11.076	11.073	(1.270)	31951	5.00000	5.4	
	62	Dibromochloromethane	129	11.290	11.288	(0.924)	42079	5.00000	4.9	
	63	1,3-Dichloropropane	76	11.405	11.402	(0.934)	63607	5.00000	5.4	
	64	1,2-Dibromoethane	107	11.576	11.574	(1.327)	38096	5.00000	5.0	
	65	2-Hexanone	43	11.862	11.860	(0.971)	85958	25.0000	18.2	
*	66	Chlorobenzene-D5	117	12.213	12.210	(1.000)	2171655	50.0000		
	67	Chlorobenzene	112	12.234	12.232	(1.002)	120748	5.00000	5.5	
	152	1-Chlorohexane	91	12.206	12.203	(0.999)	70827	5.00000	5.4	
	68	Ethylbenzene	106	12.270	12.268	(1.005)	69334	5.00000	5.4	
	69	1,1,1,2-Tetrachloroethane	131	12.313	12.318	(1.008)	43881	5.00000	5.0	
	71	m+p-Xylenes	106	12.456	12.453	(1.020)	164959	10.0000	11.3	
	72	o-Xylene	106	13.028	13.025	(1.067)	68649	5.00000	5.0	
	73	Styrene	104	13.099	13.097	(1.073)	123568	5.00000	5.3	
	74	Bromoform	173	13.135	13.140	(1.076)	27424	5.00000	4.6	
	75	Isopropylbenzene	105	13.457	13.462	(0.866)	198711	5.00000	5.0	
$	76	P-Bromofluorobenzene	95	13.857	13.855	(1.588)	60315	5.00000	5.2	
	77	cis-1,4-Dichloro-2-Butene	53	13.964	13.962	(0.899)	10739	5.00000	6.2	
	78	trans-1,4-Dichloro-2-Butene	53	14.415	14.420	(0.928)	10699	5.00000	6.2	
	79	Bromobenzene	156	14.007	14.005	(0.902)	57410	5.00000	5.0	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.050	14.048	(0.904)	241397	5.00000	5.0	
81	1,1,2,2-Tetrachloroethane	83	14.157	14.155	(0.911)	51281	5.00000	5.5	
82	1,3,5-Trimethylbenzene	105	14.336	14.341	(0.923)	181343	5.00000	5.0	
83	2-Chlorotoluene	91	14.279	14.277	(0.919)	139108	5.00000	5.5	
84	1,2,3-Trichloropropane	75	14.358	14.355	(0.924)	39289	5.00000	5.4	
85	4-Chlorotoluene	91	14.522	14.520	(0.935)	136189	5.00000	5.4	
86	tert-Butylbenzene	119	14.815	14.813	(0.954)	175753	5.00000	5.4	
87	Pentachloroethane	117	14.844	14.849	(0.955)	36517	5.00000	4.8	
88	1,2,4-Trimethylbenzene	105	14.923	14.927	(0.960)	171820	5.00000	5.0	
89	P-Isopropyltoluene	119	15.316	15.313	(0.986)	182387	5.00000	4.9	
90	1,3-Dichlorobenzene	146	15.423	15.421	(0.993)	109060	5.00000	5.5	
* 91	1,4-Dichlorobenzene-D4	152	15.537	15.542	(1.000)	1315588	50.0000		
92	1,4-Dichlorobenzene	146	15.566	15.564	(1.002)	119789	5.00000	5.4	
93	N-Butylbenzene	91	15.995	15.993	(1.029)	172615	5.00000	4.8	
94	sec-Butylbenzene	105	15.087	15.092	(0.971)	223920	5.00000	4.9	
95	1,2-Dichlorobenzene	146	16.245	16.242	(1.046)	92872	5.00000	5.2	
96	1,2-Dibromo-3-Chloropropane	75	17.597	17.594	(1.133)	6287	5.00000	7.2	
97	1,3,5-Trichlorobenzene	180	17.647	17.644	(1.136)	83455	5.00000	5.2	
98	Hexachlorobutadiene	225	18.748	18.746	(1.207)	36780	5.00000	5.7	
99	1,2,4-Trichlorobenzene	180	18.784	18.788	(1.209)	55122	5.00000	6.1	
100	1,2,3-Trimethylbenzene	105	15.609	15.607	(1.005)	180205	5.00000	5.5	
101	Naphthalene	128	19.377	19.375	(1.247)	78975	5.00000	5.8	
102	1,2,3-Trichlorobenzene	180	19.706	19.711	(1.268)	44751	5.00000	7.1	
103	Methyl Acetate	43	5.005	4.996	(0.621)	22800	5.00000	4.7	
104	Methylcyclohexane	83	8.652	8.650	(1.073)	73892	5.00000	5.4	



Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7528.D
Date : 09-JUN-2014 13:08
Client ID: Initial Calibration
Sample Info: WG144357-2
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

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Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7529.D
Report Date: 11-Jun-2014 11:49

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C060914B.b\C7529.D
Lab Smp Id: WG144357-1 Client Smp ID: Initial Calibration
Inj Date : 09-JUN-2014 13:39 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG144357-1
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C060914B.b\C826A08.m
Meth Date : 11-Jun-2014 11:49 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 13:39 Cal File: C7529.D
Als bottle: 6 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.003	2.000	(0.248)	4930	1.00000	0.79(a)	
2 Chloromethane	50	2.239	2.236	(0.278)	10596	1.00000	1.0	
3 Vinyl chloride	62	2.346	2.343	(0.291)	8242	1.00000	0.95(a)	
4 Bromomethane	94	2.746	2.744	(0.341)	7822	1.00000	1.2	
5 Chloroethane	64	2.904	2.894	(0.360)	5259	1.00000	1.4	
6 Trichlorofluoromethane	101	3.082	3.080	(0.382)	11645	1.00000	0.87(a)	
7 Diethyl Ether	59	3.511	3.509	(0.435)	4982	1.00000	0.96(a)	
8 Tertiary-butyl alcohol	59	5.378	5.361	(0.667)	1232	5.00000	12.0(M)	M9
9 1,1-Dichloroethene	96	3.776	3.773	(0.468)	6046	1.00000	0.90(a)	
10 Carbon Disulfide	76	3.812	3.809	(0.473)	22573	1.00000	1.1	
11 Freon-113	151	3.840	3.838	(0.476)	5639	1.00000	1.0	
12 Iodomethane	142	3.990	3.981	(0.495)	8252	1.00000	0.92(a)	
13 Acrolein	56	4.298	4.288	(0.533)	5438	5.00000	4.7(a)	
15 Acetone	43	4.791	4.774	(0.594)	9489	5.00000	4.6(a)	
16 Isobutyl Alcohol	43	8.295	8.271	(1.028)	3337	20.0000	40.8(TM)	M9
17 trans-1,2-Dichloroethene	96	4.949	4.946	(0.614)	7383	1.00000	0.92(a)	
18 Allyl Chloride	41	4.505	4.502	(0.559)	10451	1.00000	0.94(a)	
19 Methyl tert-butyl ether	73	5.156	5.153	(0.639)	25335	2.00000	1.7	
20 Acetonitrile	39	5.592	5.568	(0.693)	2244	10.0000	10.8(aM)	M9
21 Di-isopropyl ether	45	5.807	5.811	(0.720)	17128	1.00000	0.82(a)	
22 Chloroprene	53	5.942	5.940	(0.737)	9015	1.00000	0.84(a)	
23 Propionitrile	54	8.002	7.985	(0.992)	6758	10.0000	7.5(a)	
24 Methacrylonitrile	41	8.016	8.013	(0.994)	37036	10.0000	10.2	
25 1,1-Dichloroethane	63	5.971	5.975	(0.740)	13220	1.00000	0.99(aM)	M9

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12:45 pm, Jul 15, 2014

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Report Date: 11-Jun-2014 11:49

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	26	Acrylonitrile	52	6.078	6.068	(0.754)	8811	5.00000	4.3(a)	
	27	Ethyl tertiary-butyl ether	59	6.379	6.376	(0.791)	13589	1.00000	0.78(a)	
	28	Vinyl Acetate	43	6.414	6.397	(0.735)	9566	1.00000	2.2(M)	M9
	29	cis-1,2-Dichloroethene	96	6.793	6.783	(0.842)	7762	1.00000	0.91(a)	
	31	Methyl Methacrylate	41	9.596	9.586	(1.100)	3078	1.00000	3.4	
	32	2,2-Dichloropropane	77	6.929	6.934	(0.859)	7923	1.00000	0.76(a)	
	33	Bromochloromethane	128	7.065	7.062	(0.876)	4488	1.00000	1.0	
	34	Chloroform	83	7.179	7.177	(0.890)	12697	1.00000	0.93(a)	
	35	Carbon Tetrachloride	117	7.344	7.341	(0.842)	8167	1.00000	0.78(a)	
	36	Tetrahydrofuran	42	7.394	7.384	(0.917)	6741	5.00000	4.2(a)	
$	37	Dibromofluoromethane	113	7.430	7.427	(0.921)	7936	1.00000	0.95(a)	
	38	1,1,1-Trichloroethane	97	7.444	7.441	(0.923)	10319	1.00000	0.85(a)	
	39	1,1-Dichloropropene	75	10.890	10.888	(1.248)	8050	1.00000	0.84(a)	
	40	2-Butanone	43	7.623	7.606	(0.945)	9326	5.00000	3.6(a)	
	41	Benzene	78	7.937	7.935	(0.910)	26476	1.00000	0.92(a)	
*	42	Pentafluorobenzene	168	8.066	8.063	(1.000)	1468932	50.0000		
	44	Ethyl Methacrylate	69	11.076	11.081	(1.270)	4225	1.00000	2.1	
$	45	1,2-Dichloroethane-D4	65	8.116	8.113	(1.006)	8679	1.00000	1.0	
	46	Tertiary-amyl methyl ether	73	8.102	8.099	(1.004)	13169	1.00000	0.88(a)	
	47	1,2-Dichloroethane	62	8.202	8.199	(0.940)	10445	1.00000	1.1	
	48	Trichloroethene	95	8.674	8.670	(0.994)	7010	1.00000	0.89(a)	
*	49	1,4-Difluorobenzene	114	8.724	8.721	(1.000)	2116116	50.0000		
	50	Dibromomethane	93	9.189	9.186	(1.053)	5403	1.00000	1.1	
	51	1,2-Dichloropropane	63	9.310	9.307	(1.067)	6789	1.00000	0.97(aM)	M6
	52	Bromodichloromethane	83	9.396	9.386	(1.077)	8746	1.00000	0.88(a)	
	53	cis-1,3-dichloropropene	75	10.132	10.130	(1.161)	8227	1.00000	0.74(a)	
	54	1,4-Dioxane	88	9.646	9.629	(1.106)	1290	20.0000	38.2	
$	55	Toluene-D8	98	10.347	10.344	(1.186)	24418	1.00000	0.92(a)	
	57	Toluene	92	10.404	10.401	(1.193)	16376	1.00000	0.86(a)	
	59	Tetrachloroethene	164	10.840	10.845	(0.888)	6894	1.00000	0.84(a)	
	60	trans-1,3-Dichloropropene	75	10.890	10.888	(1.248)	8050	1.00000	0.84(a)	
	61	1,1,2-Trichloroethane	83	11.083	11.073	(1.270)	5913	1.00000	1.0	
	62	Dibromochloromethane	129	11.291	11.288	(0.924)	6695	1.00000	0.82(a)	
	63	1,3-Dichloropropane	76	11.405	11.402	(0.934)	10913	1.00000	0.96(a)	
	64	1,2-Dibromoethane	107	11.577	11.574	(1.327)	7051	1.00000	0.95(aM)	M6
*	66	Chlorobenzene-D5	117	12.213	12.210	(1.000)	2095035	50.0000		
	67	Chlorobenzene	112	12.235	12.232	(1.002)	21474	1.00000	1.0	
	152	1-Chlorohexane	91	12.206	12.203	(0.999)	12864	1.00000	1.0	
	68	Ethylbenzene	106	12.263	12.268	(1.004)	11278	1.00000	0.91(a)	
	69	1,1,1,2-Tetrachloroethane	131	12.320	12.318	(1.009)	7616	1.00000	0.90(a)	
	71	m+p-Xylenes	106	12.456	12.453	(1.020)	23797	2.00000	1.7(a)	
	72	o-Xylene	106	13.028	13.025	(1.067)	10206	1.00000	0.78(a)	
	73	Styrene	104	13.100	13.097	(1.073)	16822	1.00000	0.75(a)	
	74	Bromoform	173	13.135	13.140	(1.076)	4442	1.00000	0.77(aM)	M6
	75	Isopropylbenzene	105	13.457	13.462	(0.866)	24777	1.00000	1.4	
$	76	P-Bromofluorobenzene	95	13.865	13.855	(1.589)	9889	1.00000	0.87(a)	
	77	cis-1,4-Dichloro-2-Butene	53	13.958	13.962	(0.898)	1633	1.00000	3.1	
	78	trans-1,4-Dichloro-2-Butene	53	14.430	14.420	(0.929)	1474	1.00000	2.8	
	79	Bromobenzene	156	14.008	14.005	(0.902)	9788	1.00000	0.92(a)	
	80	N-Propylbenzene	91	14.051	14.048	(0.904)	30289	1.00000	1.6	
	81	1,1,2,2-Tetrachloroethane	83	14.158	14.155	(0.911)	8750	1.00000	1.0	
	82	1,3,5-Trimethylbenzene	105	14.344	14.341	(0.923)	24068	1.00000	1.5	
	83	2-Chlorotoluene	91	14.280	14.277	(0.919)	20318	1.00000	0.87(a)	
	84	1,2,3-Trichloropropane	75	14.351	14.355	(0.924)	7096	1.00000	1.1	

DJP

12:45 pm, Jul 15, 2014

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7529.D
Report Date: 11-Jun-2014 11:49

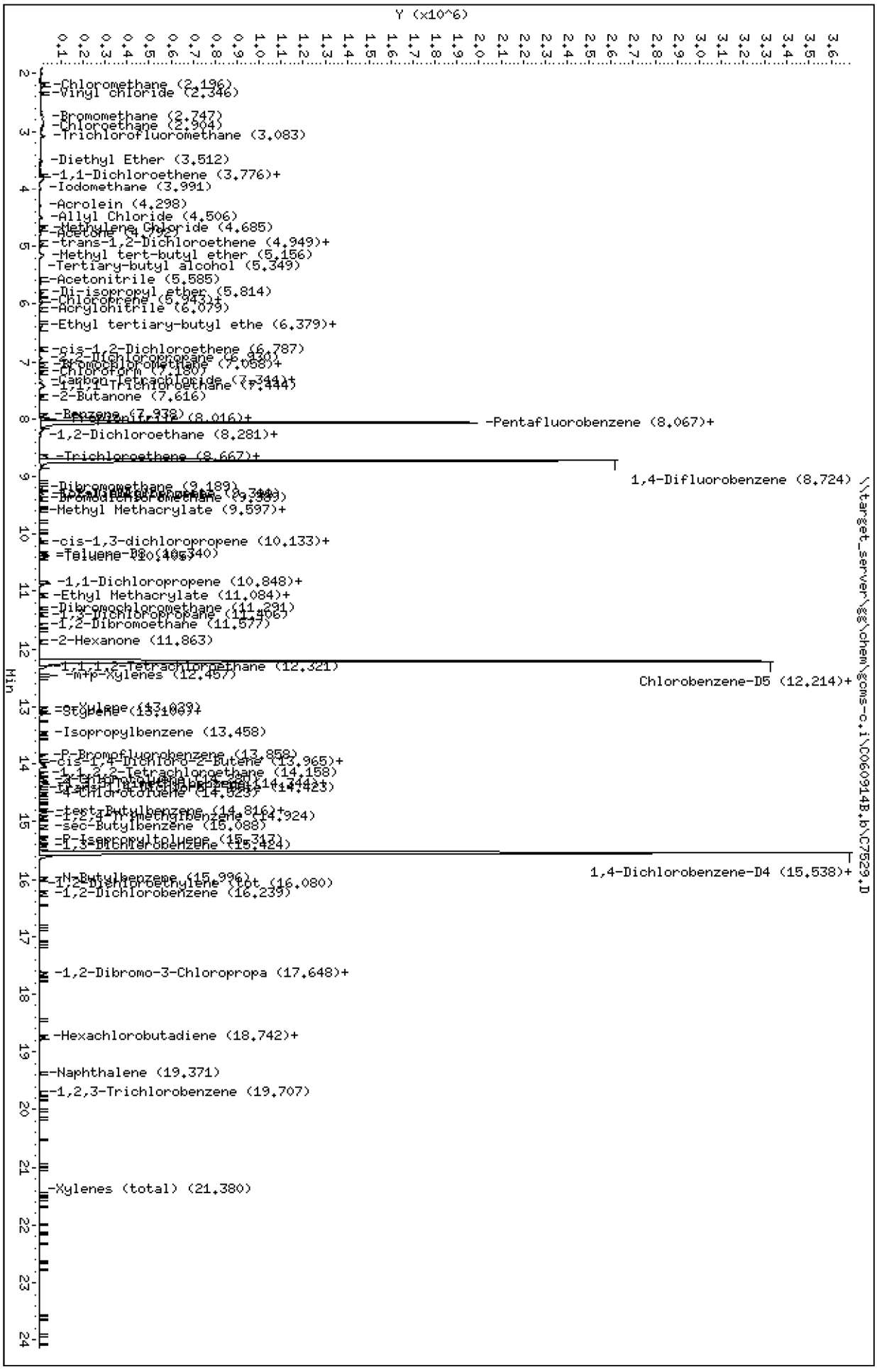
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
85	4-Chlorotoluene	91	14.523	14.520	(0.935)	20622	1.00000	0.88(a)	
86	tert-Butylbenzene	119	14.816	14.813	(0.954)	23195	1.00000	0.77(a)	
88	1,2,4-Trimethylbenzene	105	14.930	14.927	(0.961)	22442	1.00000	1.5	
89	P-Isopropyltoluene	119	15.316	15.313	(0.986)	22832	1.00000	1.6	
90	1,3-Dichlorobenzene	146	15.424	15.421	(0.993)	17408	1.00000	0.95(a)	
* 91	1,4-Dichlorobenzene-D4	152	15.538	15.542	(1.000)	1218110	50.0000		
92	1,4-Dichlorobenzene	146	15.567	15.564	(1.002)	23389	1.00000	1.1	
93	N-Butylbenzene	91	15.996	15.993	(1.029)	20230	1.00000	1.5	
94	sec-Butylbenzene	105	15.095	15.092	(0.971)	28079	1.00000	1.6	
95	1,2-Dichlorobenzene	146	16.246	16.242	(1.046)	15529	1.00000	0.95(a)	
96	1,2-Dibromo-3-Chloropropane	75	17.590	17.594	(1.132)	643	1.00000	3.3	
97	1,3,5-Trichlorobenzene	180	17.647	17.644	(1.136)	13996	1.00000	0.94(a)	
98	Hexachlorobutadiene	225	18.748	18.746	(1.207)	6158	1.00000	1.0	
99	1,2,4-Trichlorobenzene	180	18.784	18.788	(1.209)	5435	1.00000	1.6	
100	1,2,3-Trimethylbenzene	105	15.609	15.607	(1.005)	30958	1.00000	1.0	
101	Naphthalene	128	19.378	19.375	(1.247)	3593	1.00000	1.6	
103	Methyl Acetate	43	5.013	4.996	(0.622)	4113	1.00000	0.88(aM)	M9
104	Methylcyclohexane	83	8.652	8.650	(1.073)	11681	1.00000	0.88(a)	



12:45 pm, Jul 15, 2014

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.



Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7529.D
Date : 09-JUN-2014 13:39
Client ID: Initial Calibration
Sample Info: WG144357-1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

\\target_server\gg\chem\gcms-c.i\C060914B.b\C7529.D

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7530.D
Report Date: 11-Jun-2014 11:49

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C060914B.b\C7530.D
Lab Smp Id: WG144357-4 Client Smp ID: Initial Calibration
Inj Date : 09-JUN-2014 14:16 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG144357-4
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C060914B.b\C826A08.m
Meth Date : 11-Jun-2014 11:49 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 14:16 Cal File: C7530.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

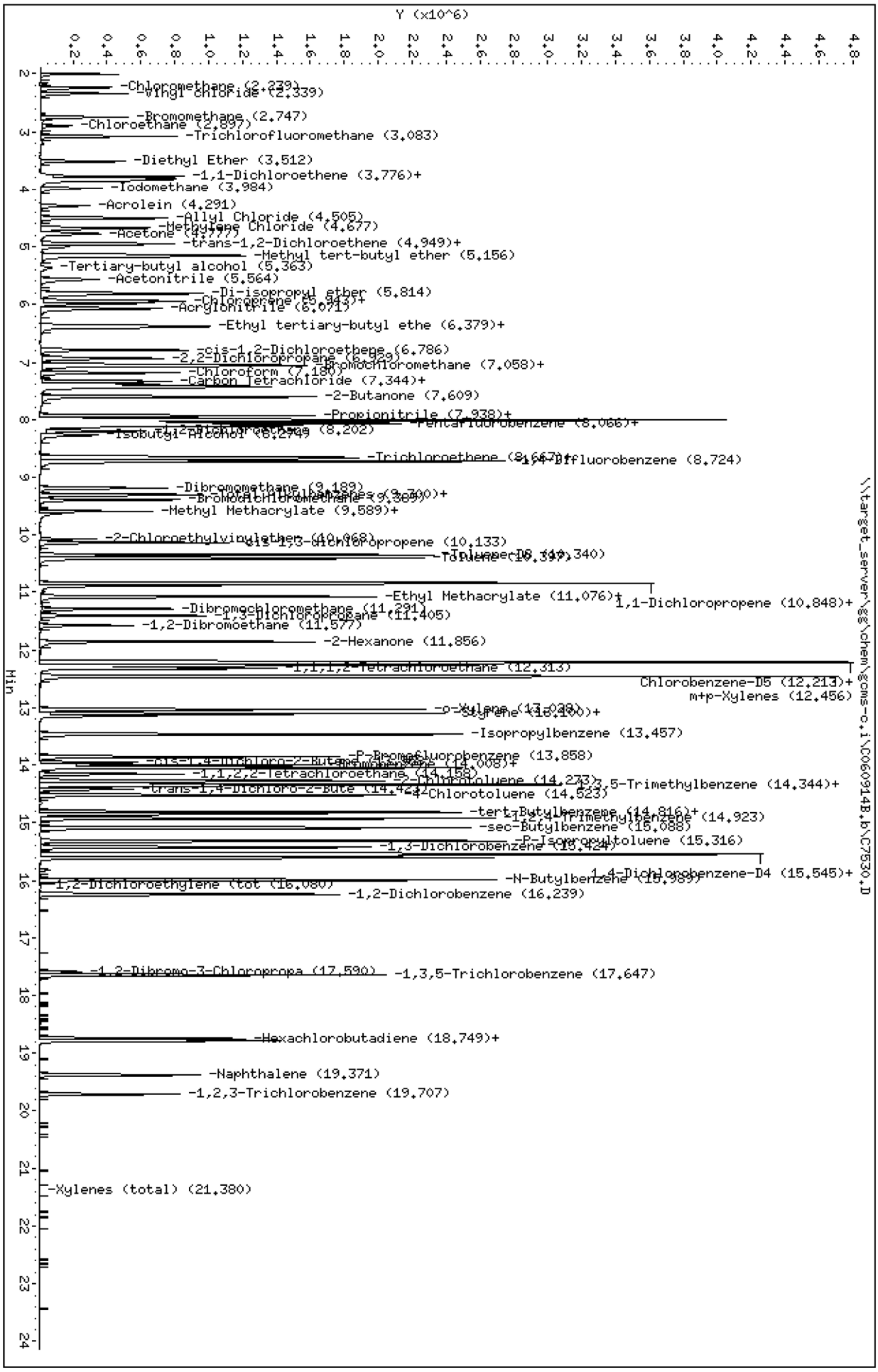
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.002	2.000	(0.248)	324467	50.0000	50.6	
2	Chloromethane	50	2.238	2.236	(0.278)	519561	50.0000	49.4	
3	Vinyl chloride	62	2.338	2.343	(0.290)	435714	50.0000	48.8	
4	Bromomethane	94	2.746	2.744	(0.340)	284881	50.0000	44.4	
5	Chloroethane	64	2.896	2.894	(0.359)	144605	50.0000	37.1	
6	Trichlorofluoromethane	101	3.082	3.080	(0.382)	666602	50.0000	48.6	
7	Diethyl Ether	59	3.511	3.509	(0.435)	270635	50.0000	50.7	
8	Tertiary-butyl alcohol	59	5.363	5.361	(0.665)	100551	250.000	246	
9	1,1-Dichloroethene	96	3.776	3.773	(0.468)	350600	50.0000	50.6	
10	Carbon Disulfide	76	3.811	3.809	(0.473)	1005379	50.0000	48.5	
11	Freon-113	151	3.840	3.838	(0.476)	278368	50.0000	50.4	
12	Iodomethane	142	3.983	3.981	(0.494)	479800	50.0000	51.9	
13	Acrolein	56	4.290	4.288	(0.532)	305146	250.000	255	
14	Methylene Chloride	84	4.677	4.681	(0.580)	423894	50.0000	50.3	
15	Acetone	43	4.777	4.774	(0.592)	582754	250.000	273	
16	Isobutyl Alcohol	43	8.273	8.271	(1.026)	211853	1000.00	1010	
17	trans-1,2-Dichloroethene	96	4.948	4.946	(0.614)	412050	50.0000	50.1	
18	Allyl Chloride	41	4.505	4.502	(0.559)	565565	50.0000	49.3	
19	Methyl tert-butyl ether	73	5.156	5.153	(0.639)	1692217	100.000	109	
20	Acetonitrile	39	5.563	5.568	(0.690)	103010	500.000	480	
21	Di-isopropyl ether	45	5.813	5.811	(0.721)	1109491	50.0000	51.8	
22	Chloroprene	53	5.942	5.940	(0.737)	564122	50.0000	51.2	
23	Propionitrile	54	7.987	7.985	(0.990)	491026	500.000	532	
24	Methacrylonitrile	41	8.009	8.013	(0.993)	1890817	500.000	505	

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7530.D
Report Date: 11-Jun-2014 11:49

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.978	5.975	(0.741)	659945	50.0000	48.3	
	26	Acrylonitrile	52	6.071	6.068	(0.753)	535654	250.000	255	
	27	Ethyl tertiary-butyl ether	59	6.371	6.376	(0.790)	960466	50.0000	53.5	
	28	Vinyl Acetate	43	6.400	6.397	(0.734)	737645	50.0000	47.5	
	29	cis-1,2-Dichloroethene	96	6.786	6.783	(0.841)	437721	50.0000	49.9	
	31	Methyl Methacrylate	41	9.589	9.586	(1.099)	287395	50.0000	48.1	
	32	2,2-Dichloropropane	77	6.929	6.934	(0.859)	546970	50.0000	51.5	
	33	Bromochloromethane	128	7.065	7.062	(0.876)	216520	50.0000	48.6	
	34	Chloroform	83	7.179	7.177	(0.890)	699807	50.0000	49.9	
	35	Carbon Tetrachloride	117	7.344	7.341	(0.842)	557190	50.0000	51.6	
	36	Tetrahydrofuran	42	7.386	7.384	(0.916)	440221	250.000	267	
$	37	Dibromofluoromethane	113	7.429	7.427	(0.921)	431154	50.0000	50.3	
	38	1,1,1-Trichloroethane	97	7.437	7.441	(0.922)	631116	50.0000	50.4	
	39	1,1-Dichloropropene	75	10.890	10.888	(1.248)	506509	50.0000	51.6	
	40	2-Butanone	43	7.601	7.606	(0.942)	735680	250.000	279	
	41	Benzene	78	7.937	7.935	(0.910)	1505874	50.0000	50.8	
*	42	Pentafluorobenzene	168	8.066	8.063	(1.000)	1508419	50.0000		
	43	Cyclohexane	56	7.050	7.048	(0.874)	595300	50.0000	50.9	
	44	Ethyl Methacrylate	69	11.076	11.081	(1.270)	454996	50.0000	50.0	
$	45	1,2-Dichloroethane-D4	65	8.116	8.113	(1.006)	423094	50.0000	48.5	
	46	Tertiary-amyl methyl ether	73	8.101	8.099	(1.004)	813379	50.0000	52.9	
	47	1,2-Dichloroethane	62	8.202	8.199	(0.940)	462509	50.0000	47.4	
	48	Trichloroethene	95	8.674	8.670	(0.994)	396589	50.0000	49.1	
*	49	1,4-Difluorobenzene	114	8.724	8.721	(1.000)	2172315	50.0000		
	50	Dibromomethane	93	9.188	9.186	(1.053)	247195	50.0000	48.5	
	51	1,2-Dichloropropane	63	9.303	9.307	(1.066)	352648	50.0000	49.3	
	52	Bromodichloromethane	83	9.389	9.386	(1.076)	520573	50.0000	51.3	
	53	cis-1,3-dichloropropene	75	10.132	10.130	(1.161)	610283	50.0000	53.3	
	54	1,4-Dioxane	88	9.632	9.629	(1.104)	90117	1000.00	960	
$	55	Toluene-D8	98	10.339	10.344	(1.185)	1424270	50.0000	52.4	
	56	2-Chloroethylvinylether	63	10.068	10.065	(1.154)	128515	50.0000	52.4	
	57	Toluene	92	10.397	10.401	(1.192)	979997	50.0000	50.4	
	58	4-methyl-2-pentanone	43	10.847	10.845	(1.243)	1321673	250.000	282	
	59	Tetrachloroethene	164	10.840	10.845	(0.888)	428162	50.0000	50.5	
	60	trans-1,3-Dichloropropene	75	10.890	10.888	(1.248)	506509	50.0000	51.6	
	61	1,1,2-Trichloroethane	83	11.076	11.073	(1.270)	286198	50.0000	48.5	
	62	Dibromochloromethane	129	11.290	11.288	(0.924)	441723	50.0000	52.3	
	63	1,3-Dichloropropane	76	11.405	11.402	(0.934)	587871	50.0000	50.4	
	64	1,2-Dibromoethane	107	11.576	11.574	(1.327)	383231	50.0000	50.2	
	65	2-Hexanone	43	11.855	11.860	(0.971)	1015896	250.000	278	
*	66	Chlorobenzene-D5	117	12.213	12.210	(1.000)	2155688	50.0000		
	67	Chlorobenzene	112	12.234	12.232	(1.002)	1092990	50.0000	50.0	
	152	1-Chlorohexane	91	12.206	12.203	(0.999)	641489	50.0000	49.4	
	68	Ethylbenzene	106	12.270	12.268	(1.005)	644197	50.0000	50.4	
	69	1,1,1,2-Tetrachloroethane	131	12.313	12.318	(1.008)	446285	50.0000	51.2	
	71	m+p-Xylenes	106	12.456	12.453	(1.020)	1516651	100.000	105	
	72	o-Xylene	106	13.028	13.025	(1.067)	722786	50.0000	53.6	
	73	Styrene	104	13.099	13.097	(1.073)	1271186	50.0000	55.0	
	74	Bromoform	173	13.135	13.140	(1.076)	321623	50.0000	53.9	
	75	Isopropylbenzene	105	13.457	13.462	(0.866)	1861815	50.0000	46.8	
$	76	P-Bromofluorobenzene	95	13.857	13.855	(1.588)	603524	50.0000	51.8	
	77	cis-1,4-Dichloro-2-Butene	53	13.957	13.962	(0.898)	131218	50.0000	47.4	
	78	trans-1,4-Dichloro-2-Butene	53	14.415	14.420	(0.927)	121270	50.0000	47.1	
	79	Bromobenzene	156	14.008	14.005	(0.901)	585795	50.0000	50.1	

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7530.D
Report Date: 11-Jun-2014 11:49

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.050	14.048	(0.904)	2137625	50.0000	46.2	
81	1,1,2,2-Tetrachloroethane	83	14.158	14.155	(0.911)	465863	50.0000	49.3	
82	1,3,5-Trimethylbenzene	105	14.336	14.341	(0.922)	1692807	50.0000	46.5	
83	2-Chlorotoluene	91	14.272	14.277	(0.918)	1302030	50.0000	51.1	
84	1,2,3-Trichloropropane	75	14.351	14.355	(0.923)	354915	50.0000	48.6	
85	4-Chlorotoluene	91	14.522	14.520	(0.934)	1312505	50.0000	51.5	
86	tert-Butylbenzene	119	14.815	14.813	(0.953)	1718300	50.0000	52.3	
87	Pentachloroethane	117	14.844	14.849	(0.955)	393991	50.0000	50.6	
88	1,2,4-Trimethylbenzene	105	14.923	14.927	(0.960)	1684029	50.0000	47.5	
89	P-Isopropyltoluene	119	15.316	15.313	(0.985)	1805177	50.0000	46.5	
90	1,3-Dichlorobenzene	146	15.423	15.421	(0.992)	1002207	50.0000	50.0	
* 91	1,4-Dichlorobenzene-D4	152	15.545	15.542	(1.000)	1334267	50.0000		
92	1,4-Dichlorobenzene	146	15.566	15.564	(1.001)	1088074	50.0000	48.3	
93	N-Butylbenzene	91	15.988	15.993	(1.029)	1718944	50.0000	47.0	
94	sec-Butylbenzene	105	15.087	15.092	(0.971)	2084539	50.0000	46.6	
95	1,2-Dichlorobenzene	146	16.238	16.242	(1.045)	910839	50.0000	50.8	
96	1,2-Dibromo-3-Chloropropane	75	17.590	17.594	(1.132)	64896	50.0000	47.8	
97	1,3,5-Trichlorobenzene	180	17.647	17.644	(1.135)	829314	50.0000	50.6	
98	Hexachlorobutadiene	225	18.748	18.746	(1.206)	287071	50.0000	43.8	
99	1,2,4-Trichlorobenzene	180	18.784	18.788	(1.208)	551745	50.0000	50.2	
100	1,2,3-Trimethylbenzene	105	15.609	15.607	(1.004)	1713165	50.0000	51.5	
101	Naphthalene	128	19.370	19.375	(1.246)	910876	50.0000	51.6	
102	1,2,3-Trichlorobenzene	180	19.706	19.711	(1.268)	333227	50.0000	56.8	
103	Methyl Acetate	43	5.005	4.996	(0.621)	250627	50.0000	52.0	
104	Methylcyclohexane	83	8.652	8.650	(1.073)	676252	50.0000	49.7	


Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7530.D
Date : 09-JUN-2014 14:16
Client ID: Initial Calibration
Sample Info: WG144357-4
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
Y (x10^6)
Min
\\target_server\gg\chem\gcms-c.i\C060914B.b\C7530.D
-Chloromethane (2.239)
-Vinyl chloride (2.339)
-Bromomethane (2.747)
-Chloroethane (2.897)
-Trichlorofluoromethane (3.083)
-Diethyl Ether (3.512)
-1,1-Dichloroethene (3.776)+
-Iodomethane (3.984)
-Acrolein (4.291)
-Allyl Chloride (4.505)
-Methylene Chloride (4.677)
-Acetone (4.777)
-trans-1,2-Dichloroethene (4.949)+
-Methyl tert-butyl ether (5.156)
-Tertiary-butyl alcohol (5.363)
-Acetonitrile (5.564)
-Di-isopropyl ether (5.814)
-Acrylonitrile (6.071)
-Ethyl tertiary-butyl ethe (6.379)+
-cis-1,2-Dichloroethene (6.786)
-2,2-Dichloropropane (6.959)
-Bromochloromethane (7.058)+
-Chloroform (7.180)
-Carbon Tetrachloride (7.344)+
-2-Butanone (7.609)
-Propionitrile (7.938)+
-Pentafluorobenzene (8.066)+
-Isobutyl Alcohol (8.294)
-Trichloroethene (8.667)+
1,4-Difluorobenzene (8.724)
-Dibromomethane (9.189)
-Bromodichloromethane (9.389)+
-Methyl Methacrylate (9.589)+
-2-Chloroethylvinylether (10.068)
-cis-1,3-Dichloropropene (10.133)
-Toluene-D8 (10.340)
-Ethyl Methacrylate (11.076)+
1,1-Dichloropropene (10.848)+
-Dibromochloromethane (11.291)
-1,3-Dichloropropane (11.405)
-1,2-Dibromoethane (11.577)
-2-Hexanone (11.856)
-1,1,1,2-Tetrachloroethane (12.313)
Chlorobenzene-D5 (12.213)+
m+p-Xylenes (12.456)
-o-Xylene (13.038)
-Styrene (13.100)+
-Isopropylbenzene (13.457)
-P-Bromofluorobenzene (13.858)
-cis-1,4-Dichloro-2-Butene (14.008)+
-Bromobenzene (14.008)+
-1,1,2,2-Tetrachloroethane (14.158)
-n-Propylbenzene (14.273)
1,3,5-Trimethylbenzene (14.344)+
-trans-1,4-Dichloro-2-Bute (14.424)
2-Chlorotoluene (14.523)
-tert-Butylbenzene (14.816)+
1,2,4-Trimethylbenzene (14.923)
-sec-Butylbenzene (15.088)
-P-Isopropyltoluene (15.316)
-1,3-Dichlorobenzene (15.424)
1,4-Dichlorobenzene-D4 (15.545)+
-N-Butylbenzene (15.989)
1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.239)
-1,2-Dibromo-3-Chloropropa (17.590)
-1,3,5-Trichlorobenzene (17.647)
-Hexachlorobutadiene (18.749)+
-Naphthalene (19.371)
-1,2,3-Trichlorobenzene (19.707)
-Xylenes (total) (21.380)

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7531.D
Report Date: 11-Jun-2014 11:49

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C060914B.b\C7531.D
Lab Smp Id: WG144357-3 Client Smp ID: Initial Calibration
Inj Date : 09-JUN-2014 15:05 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG144357-3
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C060914B.b\C826A08.m
Meth Date : 11-Jun-2014 11:49 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

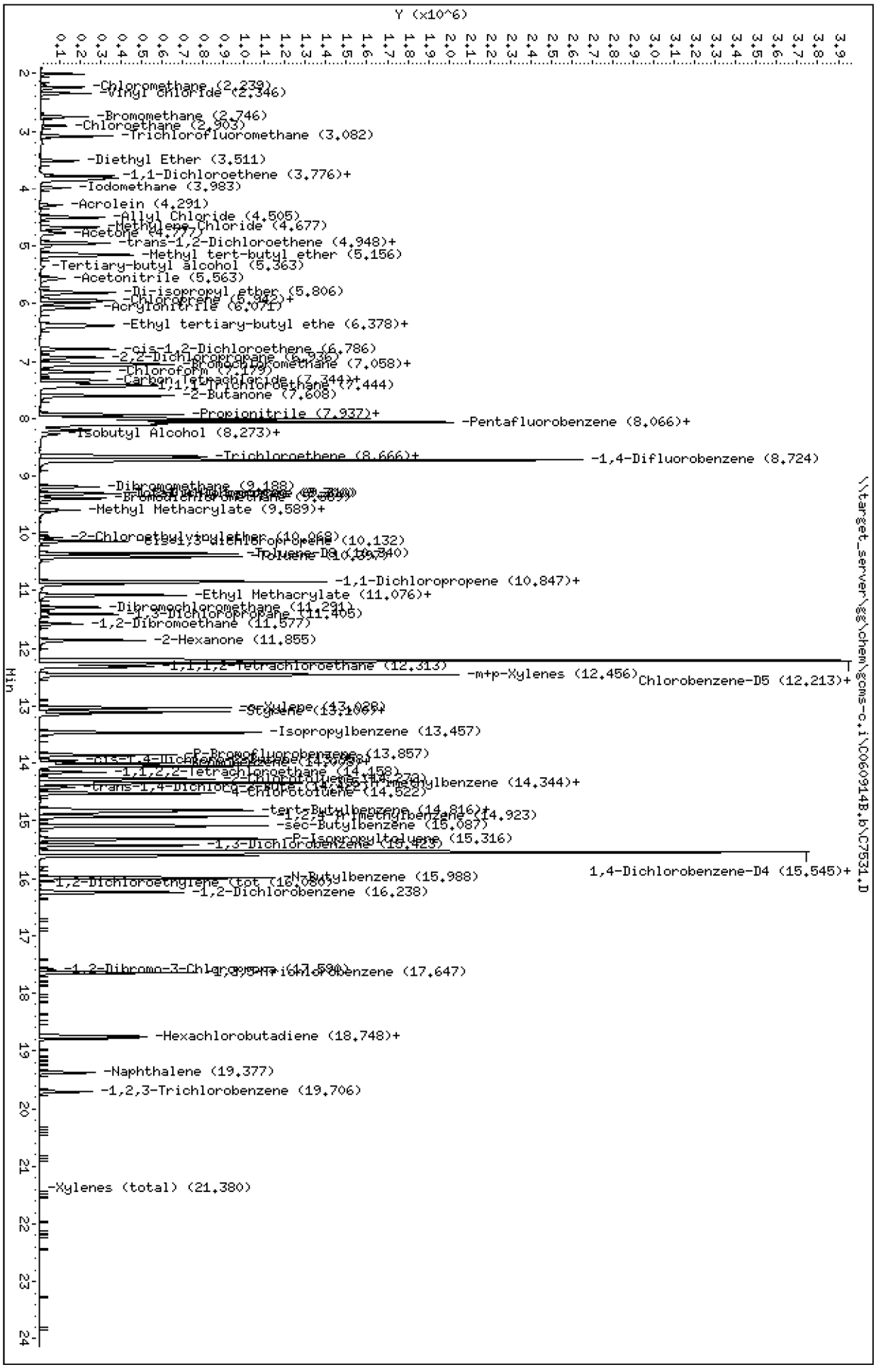
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.002	2.000	(0.248)	150584	20.0000	24.0	
2	Chloromethane	50	2.238	2.236	(0.278)	229017	20.0000	22.3	
3	Vinyl chloride	62	2.345	2.343	(0.291)	194297	20.0000	22.3	
4	Bromomethane	94	2.746	2.744	(0.340)	120404	20.0000	19.2	
5	Chloroethane	64	2.903	2.894	(0.360)	100647	20.0000	26.4	
6	Trichlorofluoromethane	101	3.082	3.080	(0.382)	284940	20.0000	21.3	
7	Diethyl Ether	59	3.511	3.509	(0.435)	104620	20.0000	20.1	
8	Tertiary-butyl alcohol	59	5.363	5.361	(0.665)	27224	100.000	77.4	
9	1,1-Dichloroethene	96	3.775	3.773	(0.468)	151806	20.0000	22.5	
10	Carbon Disulfide	76	3.811	3.809	(0.473)	419513	20.0000	20.7	
11	Freon-113	151	3.840	3.838	(0.476)	121279	20.0000	22.5	
12	Iodomethane	142	3.983	3.981	(0.494)	202601	20.0000	22.5	
13	Acrolein	56	4.290	4.288	(0.532)	110978	100.000	95.2	
14	Methylene Chloride	84	4.676	4.681	(0.580)	179771	20.0000	21.3	
15	Acetone	43	4.776	4.774	(0.592)	205253	100.000	98.4	
16	Isobutyl Alcohol	43	8.273	8.271	(1.026)	62085	400.000	332	
17	trans-1,2-Dichloroethene	96	4.948	4.946	(0.613)	181343	20.0000	22.6	
18	Allyl Chloride	41	4.505	4.502	(0.559)	240757	20.0000	21.5	
19	Methyl tert-butyl ether	73	5.155	5.153	(0.639)	613793	40.0000	40.6	
20	Acetonitrile	39	5.570	5.568	(0.691)	37074	200.000	177	
21	Di-isopropyl ether	45	5.806	5.811	(0.720)	425431	20.0000	20.4	
22	Chloroprene	53	5.942	5.940	(0.737)	238069	20.0000	22.2	
23	Propionitrile	54	7.987	7.985	(0.990)	181456	200.000	201	
24	Methacrylonitrile	41	8.008	8.013	(0.993)	779432	200.000	213	

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Report Date: 11-Jun-2014 11:49

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
Compounds									
25	1,1-Dichloroethane	63	5.970	5.975	(0.740)	283461	20.0000	21.2	
26	Acrylonitrile	52	6.070	6.068	(0.753)	193527	100.000	94.6	
27	Ethyl tertiary-butyl ether	59	6.378	6.376	(0.791)	343559	20.0000	19.6	
28	Vinyl Acetate	43	6.399	6.397	(0.734)	271371	20.0000	19.0	
29	cis-1,2-Dichloroethene	96	6.785	6.783	(0.841)	182021	20.0000	21.2	
31	Methyl Methacrylate	41	9.588	9.586	(1.099)	95082	20.0000	18.4	
32	2,2-Dichloropropane	77	6.936	6.934	(0.860)	227226	20.0000	21.9	
33	Bromochloromethane	128	7.064	7.062	(0.876)	86403	20.0000	19.8	
34	Chloroform	83	7.179	7.177	(0.890)	288095	20.0000	21.0	
35	Carbon Tetrachloride	117	7.343	7.341	(0.842)	230206	20.0000	22.0	
36	Tetrahydrofuran	42	7.386	7.384	(0.916)	149669	100.000	93.0	
$ 37	Dibromofluoromethane	113	7.429	7.427	(0.921)	167248	20.0000	20.0	
38	1,1,1-Trichloroethane	97	7.443	7.441	(0.923)	275317	20.0000	22.5	
39	1,1-Dichloropropene	75	10.890	10.888	(1.248)	188490	20.0000	19.8	
40	2-Butanone	43	7.608	7.606	(0.943)	251406	100.000	97.8	
41	Benzene	78	7.937	7.935	(0.910)	642997	20.0000	22.4	
* 42	Pentafluorobenzene	168	8.065	8.063	(1.000)	1471972	50.0000		
43	Cyclohexane	56	7.050	7.048	(0.874)	245705	20.0000	21.2	
44	Ethyl Methacrylate	69	11.076	11.081	(1.270)	151898	20.0000	18.3	
$ 45	1,2-Dichloroethane-D4	65	8.115	8.113	(1.006)	171968	20.0000	20.2	
46	Tertiary-amyl methyl ether	73	8.101	8.099	(1.004)	287373	20.0000	19.2	
47	1,2-Dichloroethane	62	8.201	8.199	(0.940)	187899	20.0000	19.9	
48	Trichloroethene	95	8.673	8.670	(0.994)	168961	20.0000	21.6	
* 49	1,4-Difluorobenzene	114	8.723	8.721	(1.000)	2102200	50.0000		
50	Dibromomethane	93	9.188	9.186	(1.053)	95283	20.0000	19.3	
51	1,2-Dichloropropane	63	9.309	9.307	(1.067)	140205	20.0000	20.2	
52	Bromodichloromethane	83	9.388	9.386	(1.076)	201109	20.0000	20.5	
53	cis-1,3-dichloropropene	75	10.132	10.130	(1.161)	227877	20.0000	20.6	
54	1,4-Dioxane	88	9.631	9.629	(1.104)	32767	400.000	376	
$ 55	Toluene-D8	98	10.339	10.344	(1.185)	587621	20.0000	22.4	
56	2-Chloroethylvinylether	63	10.067	10.065	(1.154)	43070	20.0000	19.0	
57	Toluene	92	10.396	10.401	(1.192)	420177	20.0000	22.3	
58	4-methyl-2-pentanone	43	10.847	10.845	(1.243)	480915	100.000	99.5	
59	Tetrachloroethene	164	10.840	10.845	(0.888)	181065	20.0000	21.5	
60	trans-1,3-Dichloropropene	75	10.890	10.888	(1.248)	188490	20.0000	19.8	
61	1,1,2-Trichloroethane	83	11.076	11.073	(1.270)	113114	20.0000	19.8	
62	Dibromochloromethane	129	11.290	11.288	(0.924)	165530	20.0000	19.7	
63	1,3-Dichloropropane	76	11.404	11.402	(0.934)	230586	20.0000	19.9	
64	1,2-Dibromoethane	107	11.576	11.574	(1.327)	146153	20.0000	19.8	
65	2-Hexanone	43	11.855	11.860	(0.971)	339437	100.000	89.8	
* 66	Chlorobenzene-D5	117	12.212	12.210	(1.000)	2142524	50.0000		
67	Chlorobenzene	112	12.234	12.232	(1.002)	462052	20.0000	21.2	
152	1-Chlorohexane	91	12.205	12.203	(0.999)	272615	20.0000	21.1	
68	Ethylbenzene	106	12.270	12.268	(1.005)	272534	20.0000	21.4	
69	1,1,1,2-Tetrachloroethane	131	12.313	12.318	(1.008)	172917	20.0000	20.0	
71	m+p-Xylenes	106	12.456	12.453	(1.020)	656573	40.0000	45.7	
72	o-Xylene	106	13.028	13.025	(1.067)	291904	20.0000	21.8	
73	Styrene	104	13.099	13.097	(1.073)	504552	20.0000	21.9	
74	Bromoform	173	13.135	13.140	(1.076)	110983	20.0000	18.7	
75	Isopropylbenzene	105	13.457	13.462	(0.866)	808839	20.0000	19.7	
$ 76	P-Bromofluorobenzene	95	13.857	13.855	(1.588)	237038	20.0000	21.0	
77	cis-1,4-Dichloro-2-Butene	53	13.957	13.962	(0.898)	43509	20.0000	18.2	
78	trans-1,4-Dichloro-2-Butene	53	14.422	14.420	(0.928)	42583	20.0000	18.8	
79	Bromobenzene	156	14.007	14.005	(0.901)	233685	20.0000	21.1	

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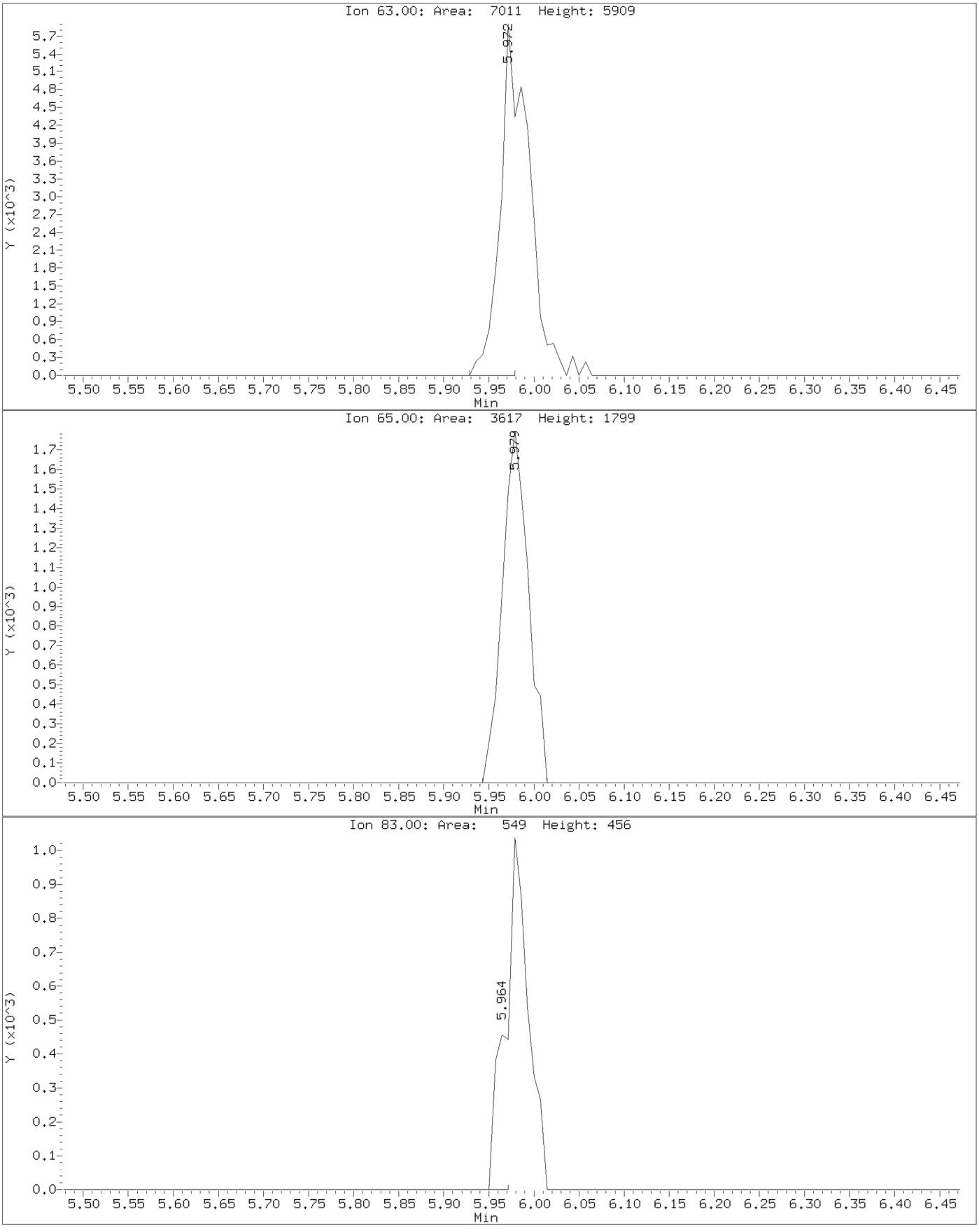
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.050	14.048	(0.904)	948797	20.0000	19.2	
81	1,1,2,2-Tetrachloroethane	83	14.157	14.155	(0.911)	175823	20.0000	19.6	
82	1,3,5-Trimethylbenzene	105	14.336	14.341	(0.922)	731980	20.0000	19.5	
83	2-Chlorotoluene	91	14.272	14.277	(0.918)	554545	20.0000	22.9	
84	1,2,3-Trichloropropane	75	14.357	14.355	(0.924)	133259	20.0000	19.2	
85	4-Chlorotoluene	91	14.522	14.520	(0.934)	548318	20.0000	22.7	
86	tert-Butylbenzene	119	14.815	14.813	(0.953)	721978	20.0000	23.2	
87	Pentachloroethane	117	14.844	14.849	(0.955)	153984	20.0000	20.8	
88	1,2,4-Trimethylbenzene	105	14.922	14.927	(0.960)	695735	20.0000	19.2	
89	P-Isopropyltoluene	119	15.316	15.313	(0.985)	768973	20.0000	19.2	
90	1,3-Dichlorobenzene	146	15.423	15.421	(0.992)	402627	20.0000	21.2	
* 91	1,4-Dichlorobenzene-D4	152	15.544	15.542	(1.000)	1265284	50.0000		
92	1,4-Dichlorobenzene	146	15.566	15.564	(1.001)	432243	20.0000	20.2	
93	N-Butylbenzene	91	15.988	15.993	(1.029)	738630	20.0000	19.3	
94	sec-Butylbenzene	105	15.087	15.092	(0.971)	913498	20.0000	19.3	
95	1,2-Dichlorobenzene	146	16.238	16.242	(1.045)	357096	20.0000	21.0	
96	1,2-Dibromo-3-Chloropropane	75	17.589	17.594	(1.132)	19390	20.0000	17.0	
97	1,3,5-Trichlorobenzene	180	17.647	17.644	(1.135)	316064	20.0000	20.4	
98	Hexachlorobutadiene	225	18.748	18.746	(1.206)	124728	20.0000	20.1	
99	1,2,4-Trichlorobenzene	180	18.783	18.788	(1.208)	186489	20.0000	18.6	
100	1,2,3-Trimethylbenzene	105	15.609	15.607	(1.004)	700037	20.0000	22.2	
101	Naphthalene	128	19.377	19.375	(1.247)	256925	20.0000	16.3	
102	1,2,3-Trichlorobenzene	180	19.706	19.711	(1.268)	101035	20.0000	18.0	
103	Methyl Acetate	43	5.005	4.996	(0.621)	87175	20.0000	18.5	
104	Methylcyclohexane	83	8.652	8.650	(1.073)	284759	20.0000	21.5	


Y (x10^6)
Min
-Chloromethane (2.239)
-Vinyl Chloride (2.346)
-Bromomethane (2.746)
-Chloroethane (2.903)
-Trichlorofluoromethane (3.082)
-Diethyl Ether (3.511)
-1,1-Dichloroethene (3.776)+
-Iodomethane (3.983)
-Acrolein (4.291)
-Allyl Chloride (4.505)
-Methylene Chloride (4.677)
-Acetone (4.777)
-trans-1,2-Dichloroethene (4.948)+
-Methyl tert-butyl ether (5.156)
-Tertiary-butyl alcohol (5.363)
-Acetonitrile (5.563)
-Di-isopropyl ether (5.806)
-Chloroprene (6.042)+
-Acrylonitrile (6.071)
-Ethyl tertiary-butyl ethe (6.378)+
-cis-1,2-Dichloroethene (6.786)
-2,2-Dichloropropane (6.936)
-Bromochloromethane (7.058)+
-Chloroform (7.179)
-Carbon tetrachloride (7.344)+
-1,1,1-Trichloroethane (7.444)
-2-Butanone (7.608)
-Propionitrile (7.937)+
-Pentafluorobenzene (8.066)+
-Isobutyl Alcohol (8.273)+
-Trichloroethene (8.666)+
-1,4-Difluorobenzene (8.724)
-Dibromomethane (9.188)
-Methyl Methacrylate (9.589)+
-2-Chloroethylvinylether (10.068)
-Toluene (10.340)
-1,1-Dichloropropene (10.847)+
-Ethyl Methacrylate (11.076)+
-Dibromochloromethane (11.291)
-1,2-Dibromoethane (11.577)
-2-Hexanone (11.855)
-1,1,1,2-Tetrachloroethane (12.313)
-m+p-Xylenes (12.456)
Chlorobenzene-D5 (12.213)+
-Isopropylbenzene (13.457)
-1,1,2,2-Tetrachloroethane (14.158)
-n-Propylbenzene (14.344)+
-trans-1,4-Dichloro-2-butene (14.522)
-tert-Butylbenzene (14.816)+
-1,2,4-Trimethylbenzene (14.923)
-sec-Butylbenzene (15.087)
-1,3-Dichlorobenzene (15.423)
1,4-Dichlorobenzene-D4 (15.545)+
-n-Butylbenzene (15.988)
-1,2-Dichloroethylene (tot (16.060)
-1,2-Dichlorobenzene (16.238)
-1,2,3-Trichlorobenzene (17.647)
-Hexachlorobutadiene (18.748)+
-Naphthalene (19.377)
-1,2,3-Trichlorobenzene (19.706)
-Xylenes (total) (21.380)
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Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
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Injection Date: 09-JUN-2014 13:39
Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: 1,1-Dichloroethane
CAS Number: 75-34-3

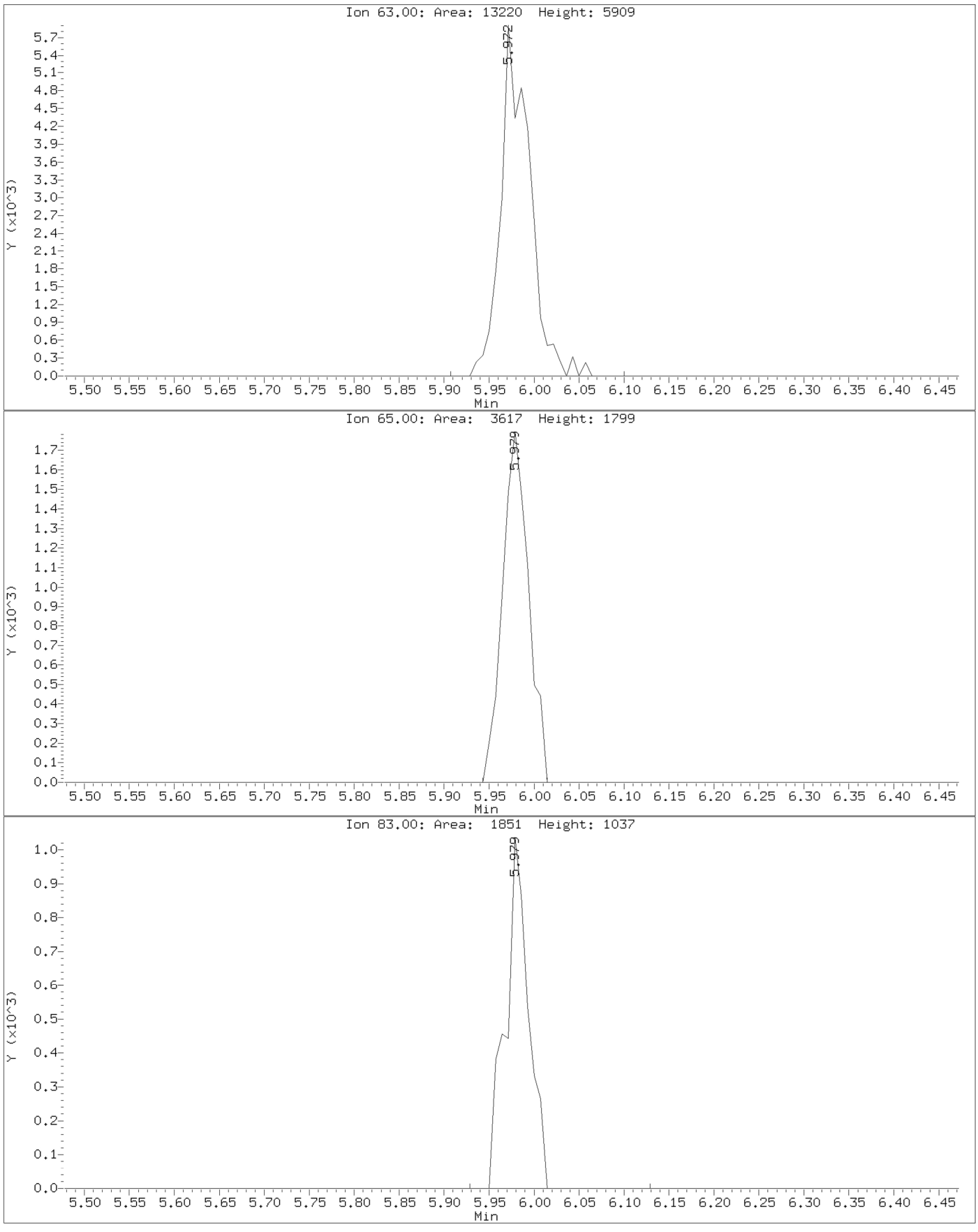
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Instrument: gcms-c.i
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Compound: 1,1-Dichloroethane
CAS Number: 75-34-3

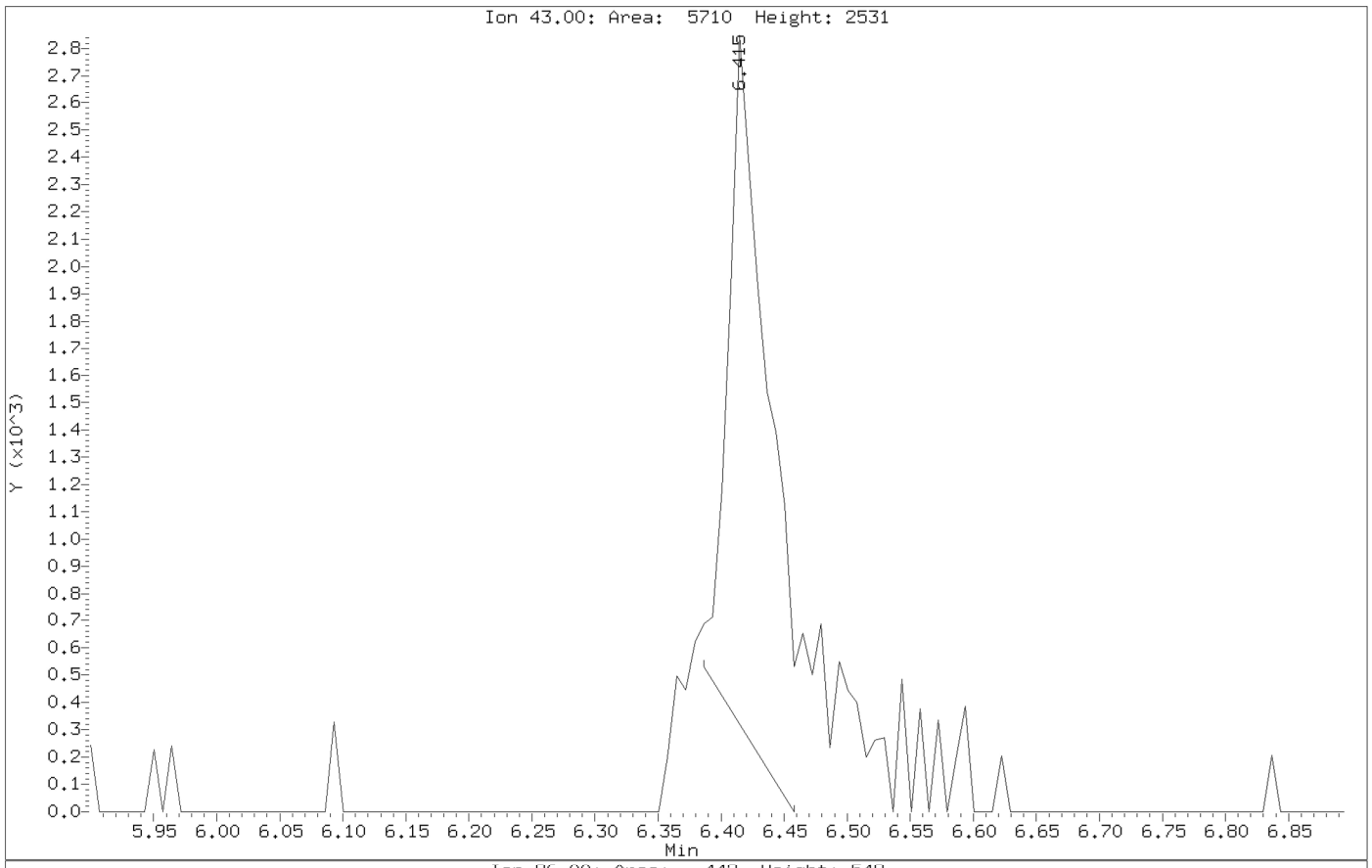
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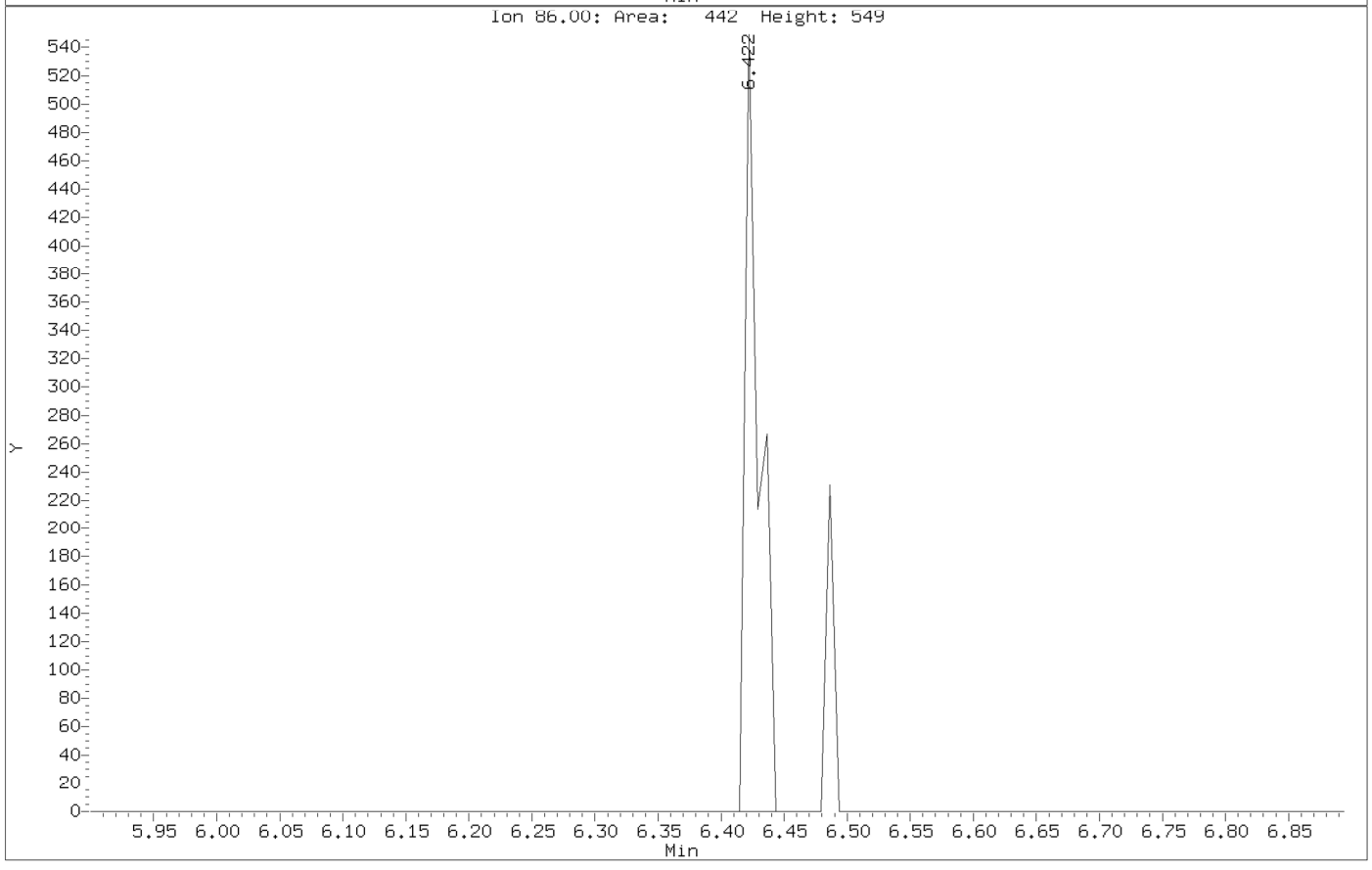


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Injection Date: 09-JUN-2014 13:39
Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: Vinyl Acetate
CAS Number: 108-05-4

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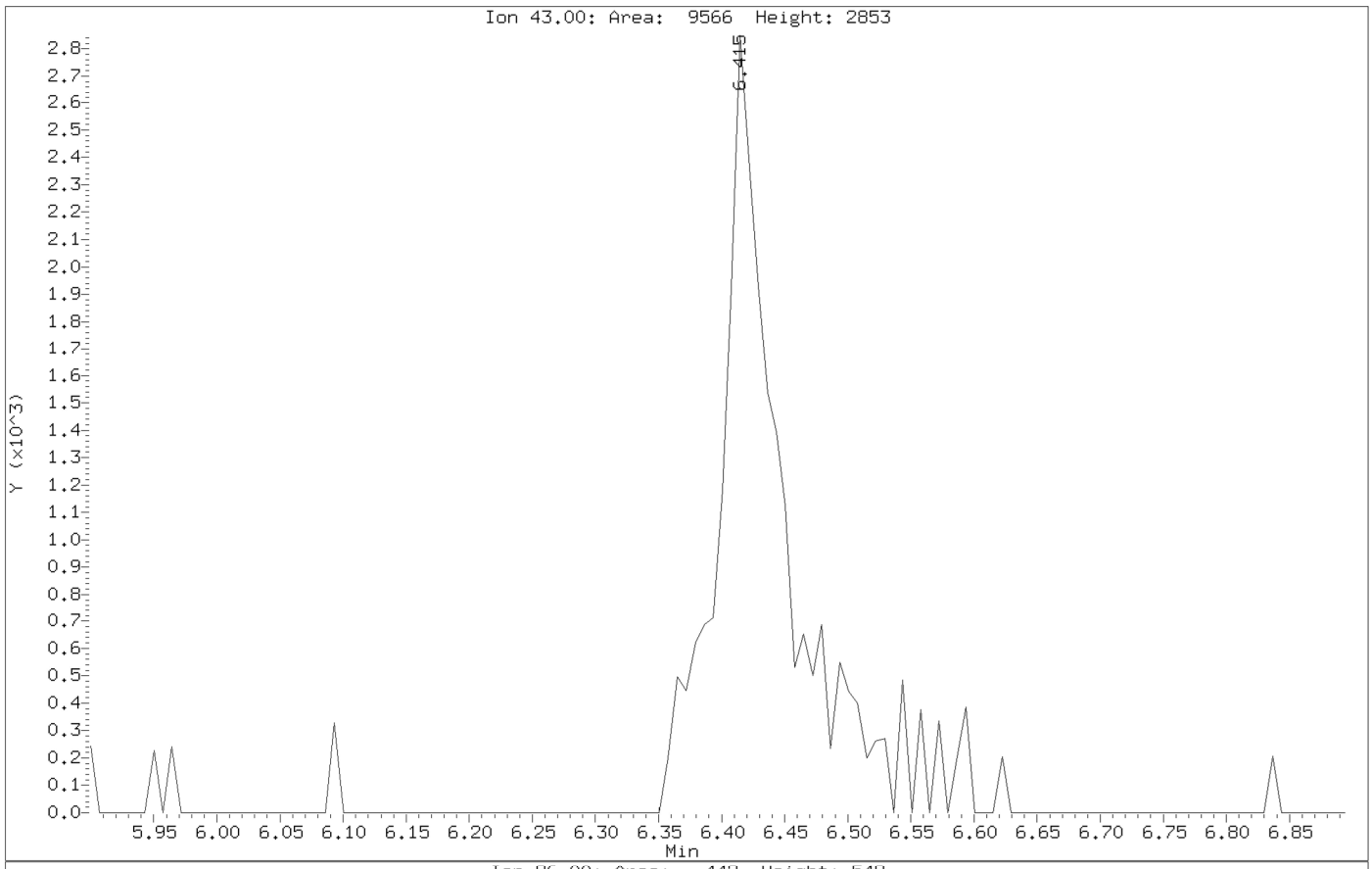


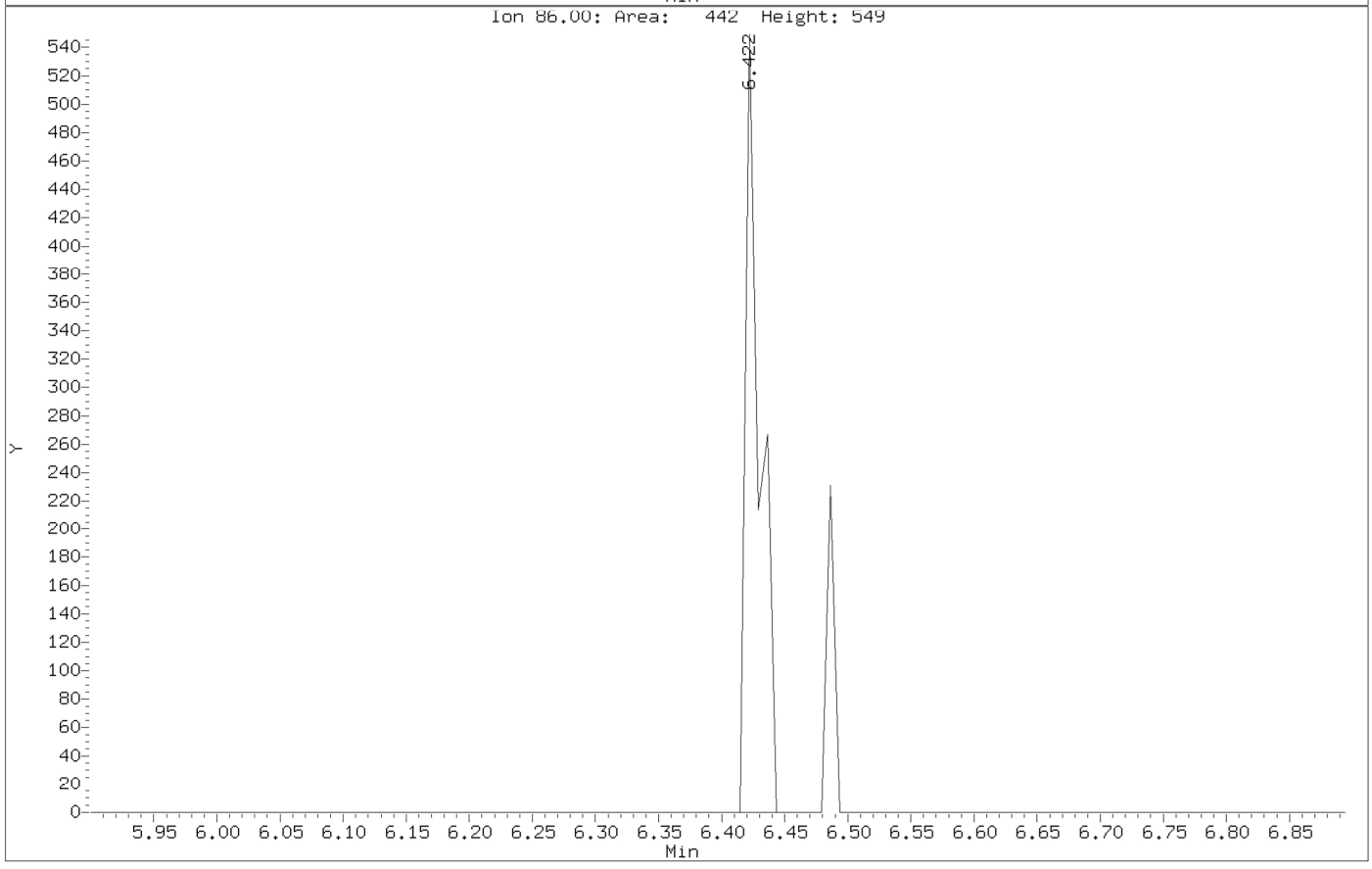


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Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: Vinyl Acetate
CAS Number: 108-05-4

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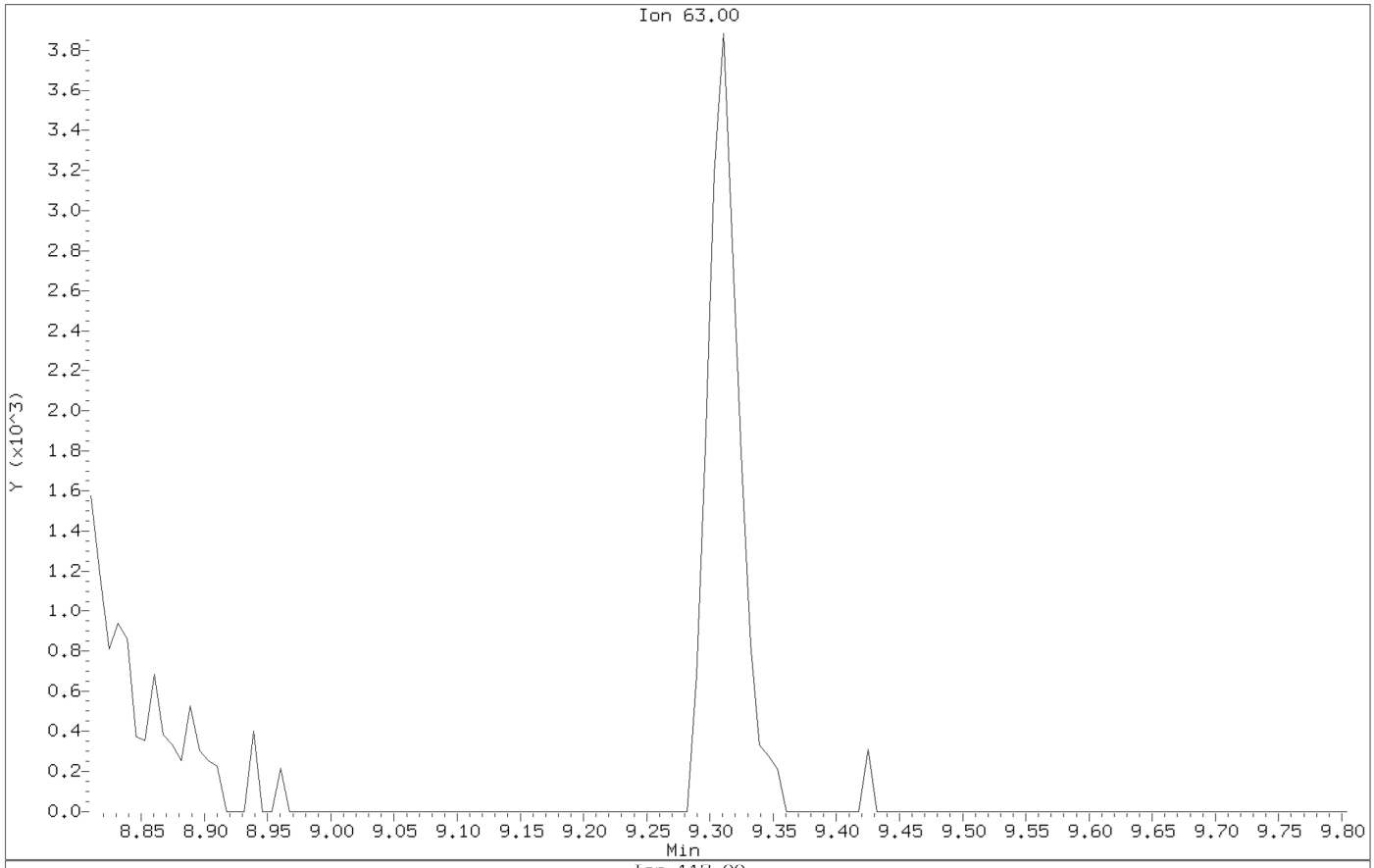


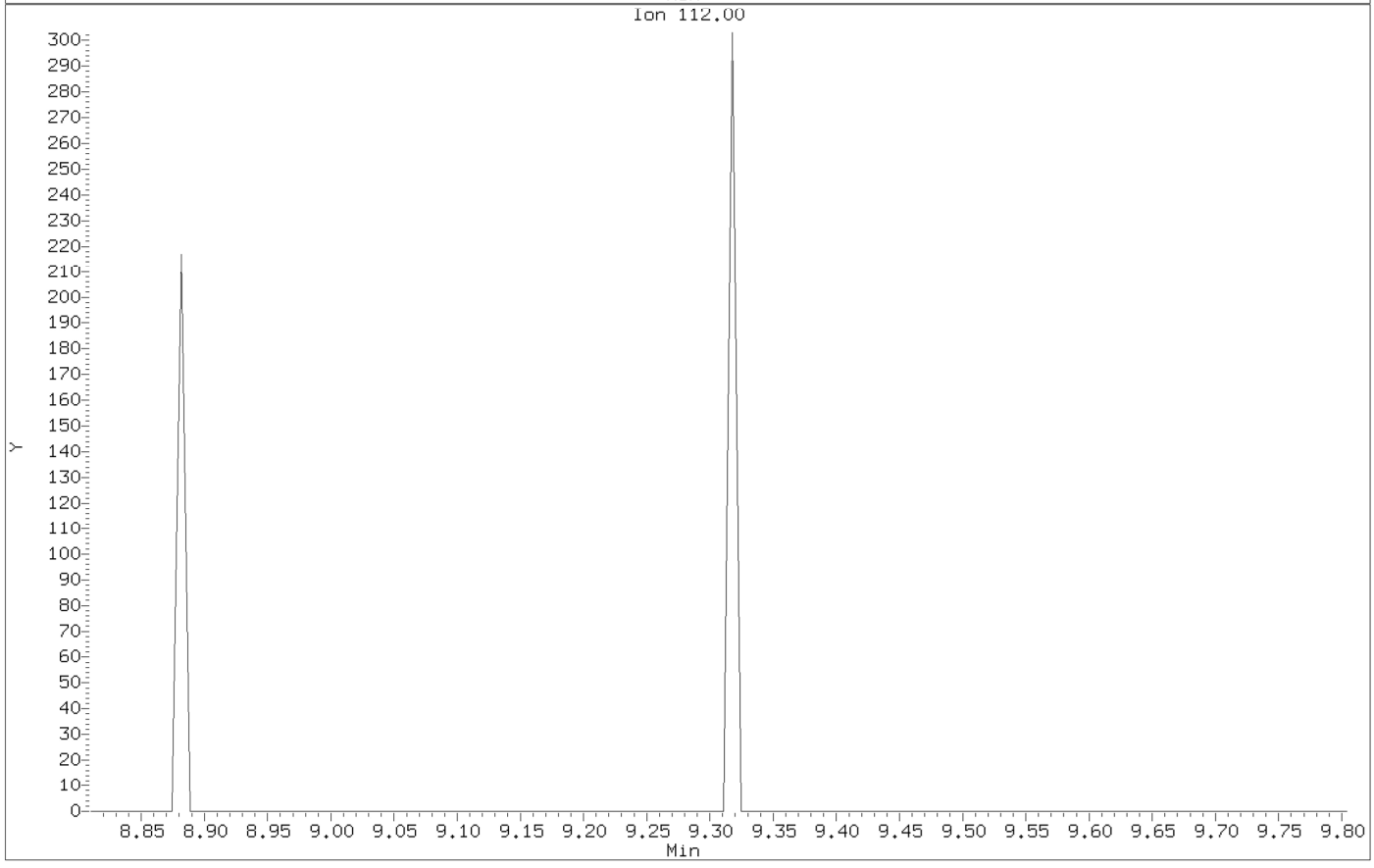


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Injection Date: 09-JUN-2014 13:39
Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

BEFORE MANUAL INTEGRATION

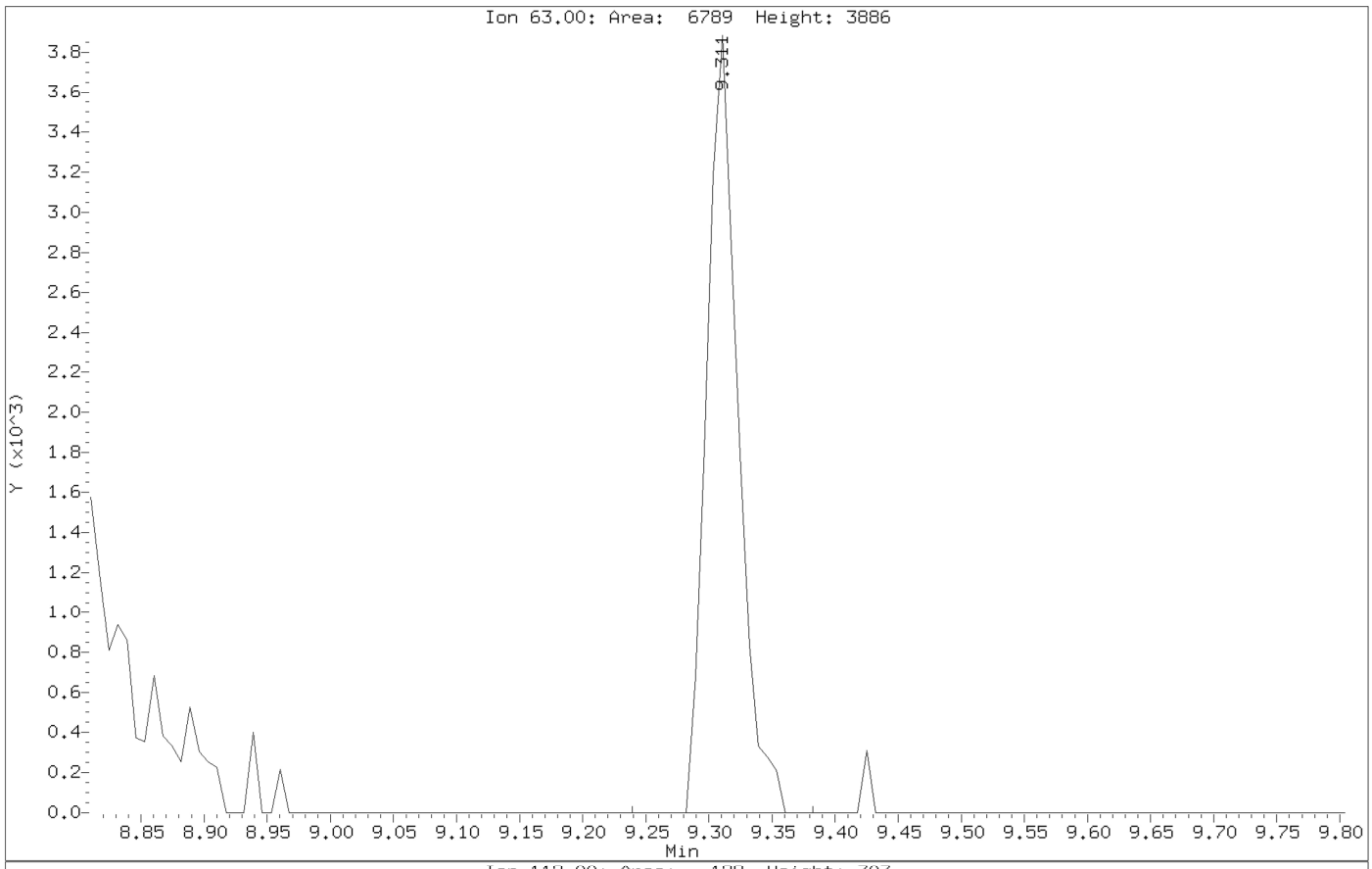


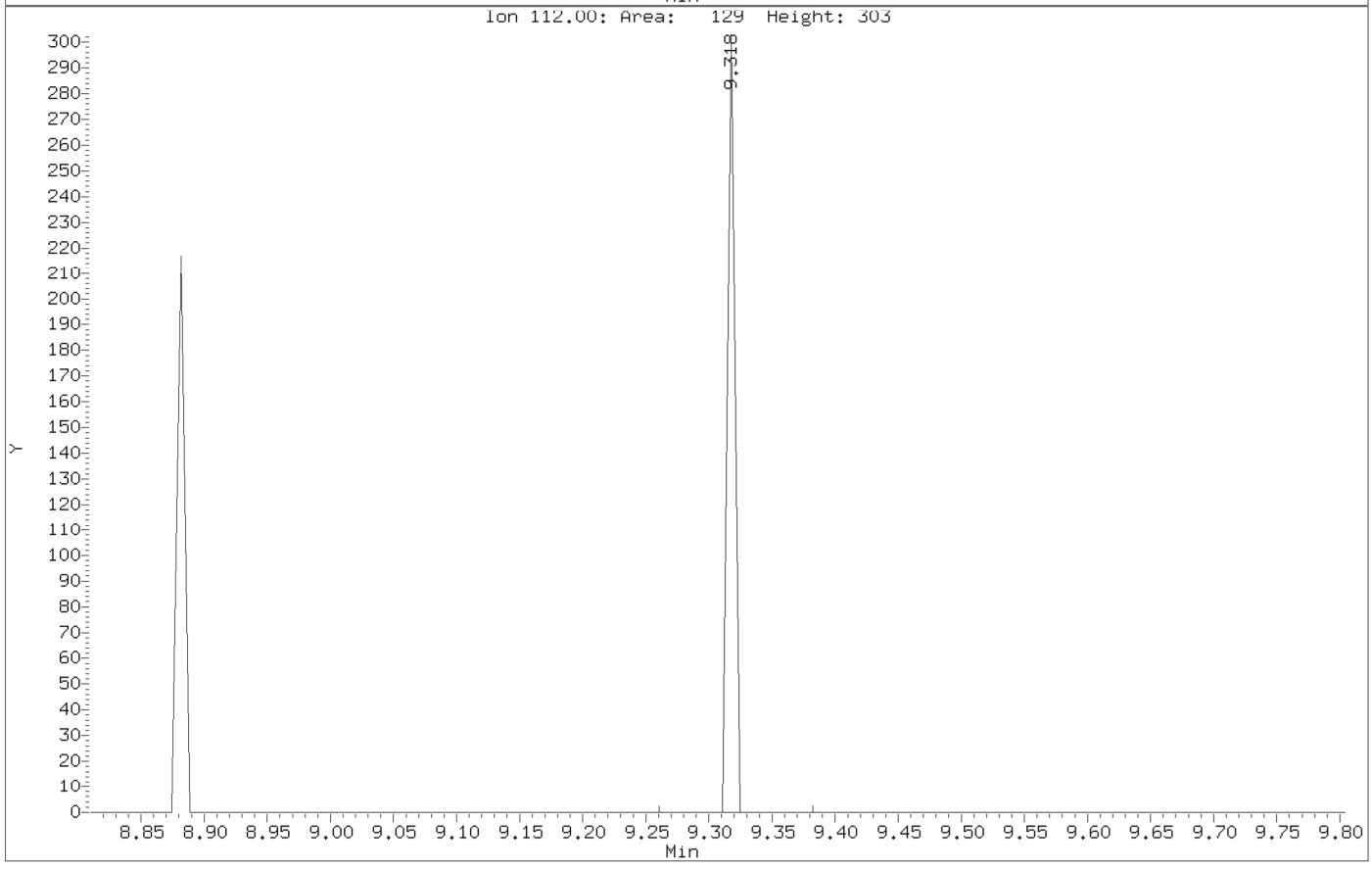


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Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

AFTER MANUAL INTEGRATION

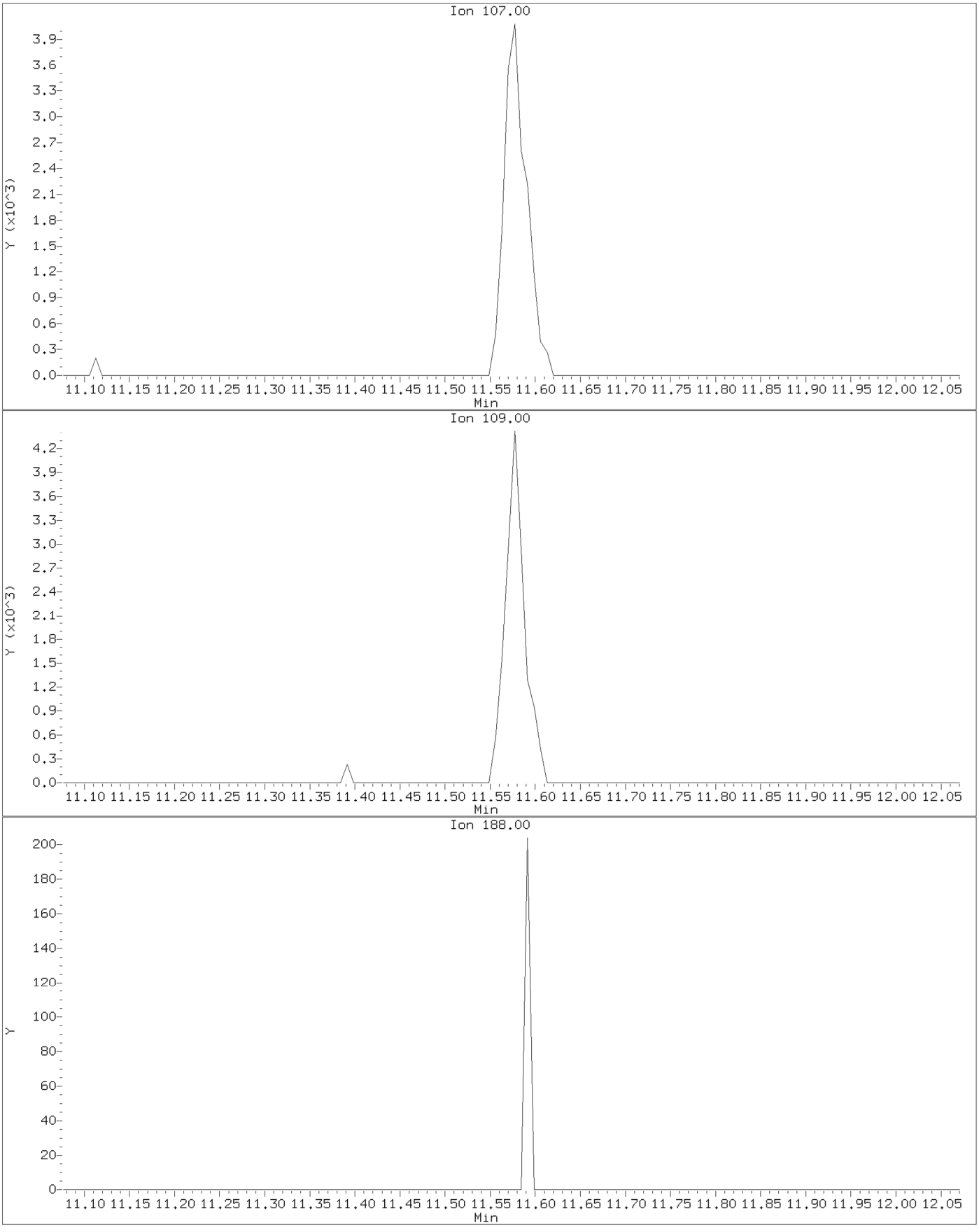




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Injection Date: 09-JUN-2014 13:39
Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

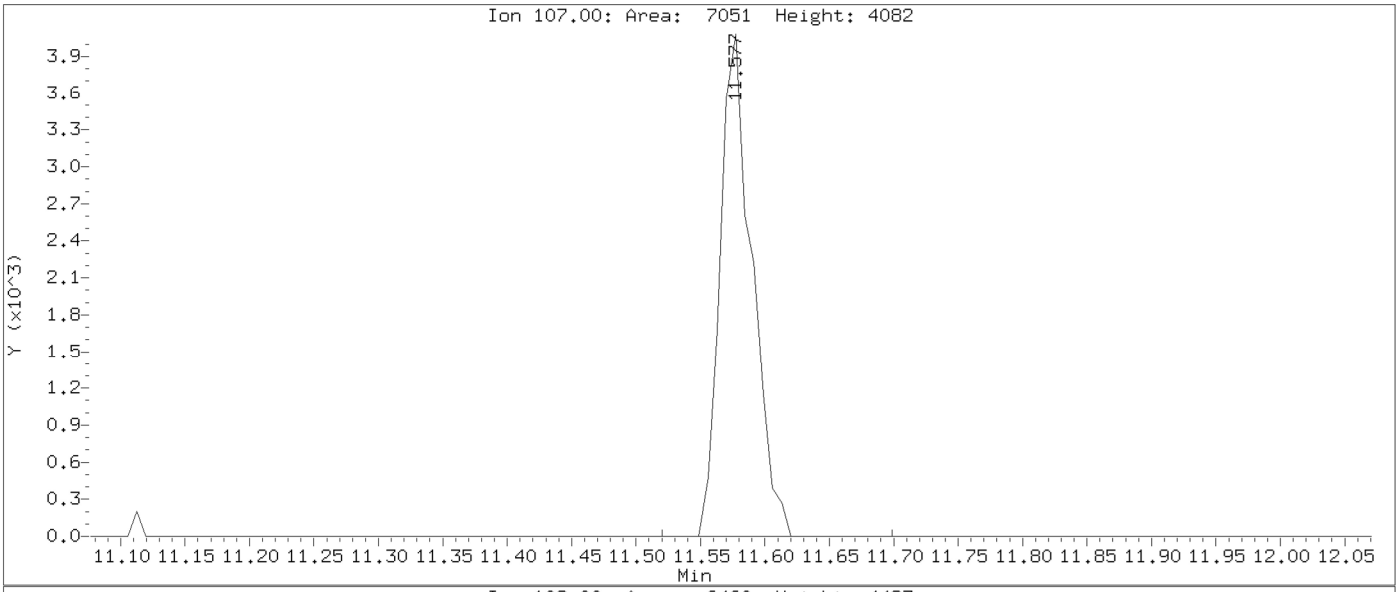
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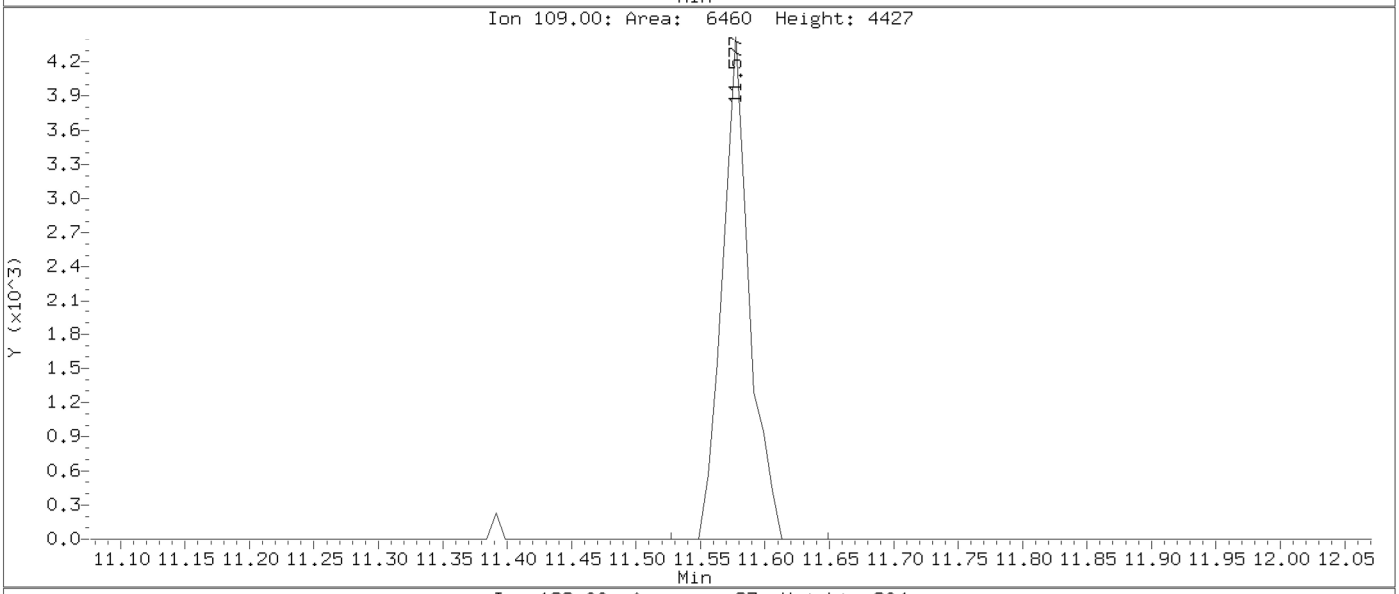


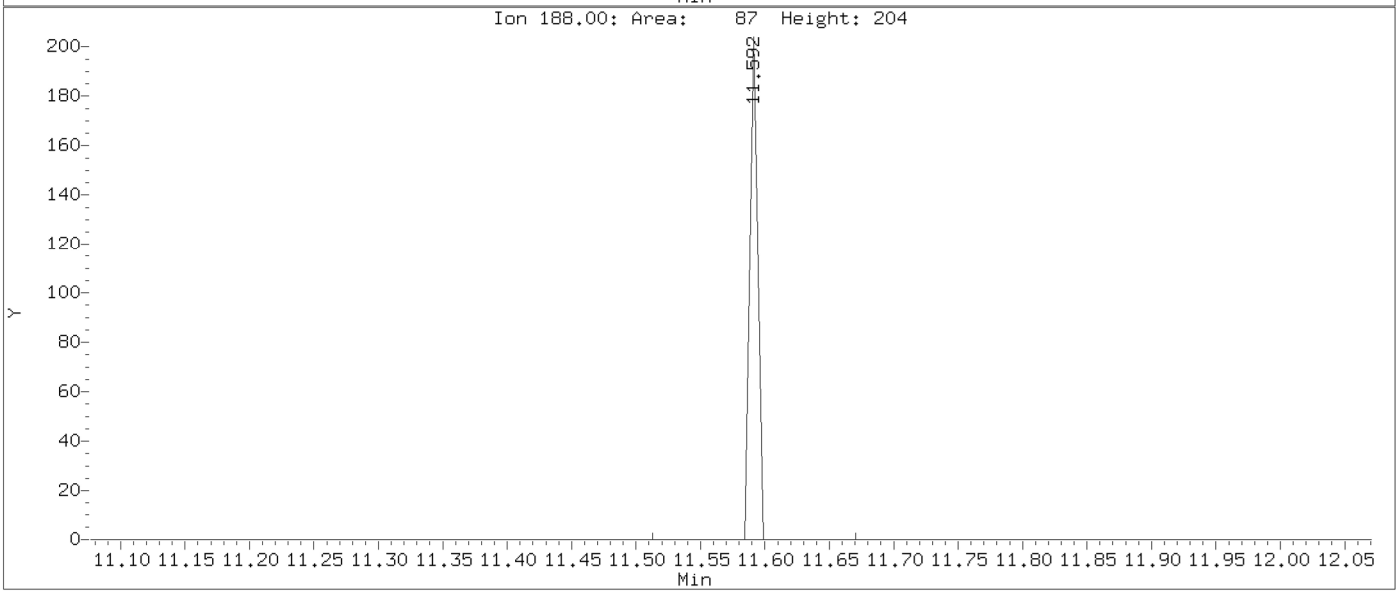
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Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

AFTER MANUAL INTEGRATION



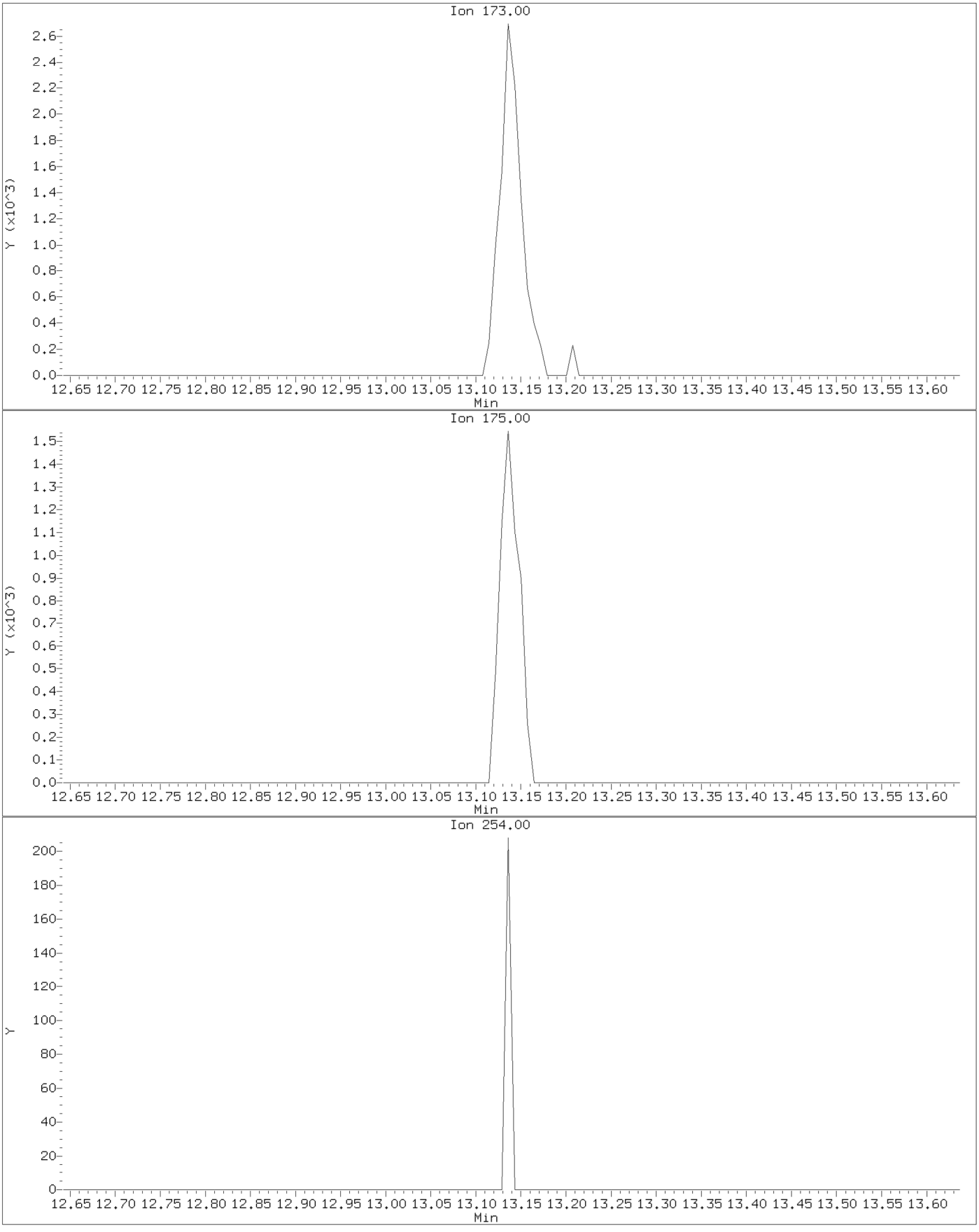




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Injection Date: 09-JUN-2014 13:39
Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: Bromoform
CAS Number: 75-25-2

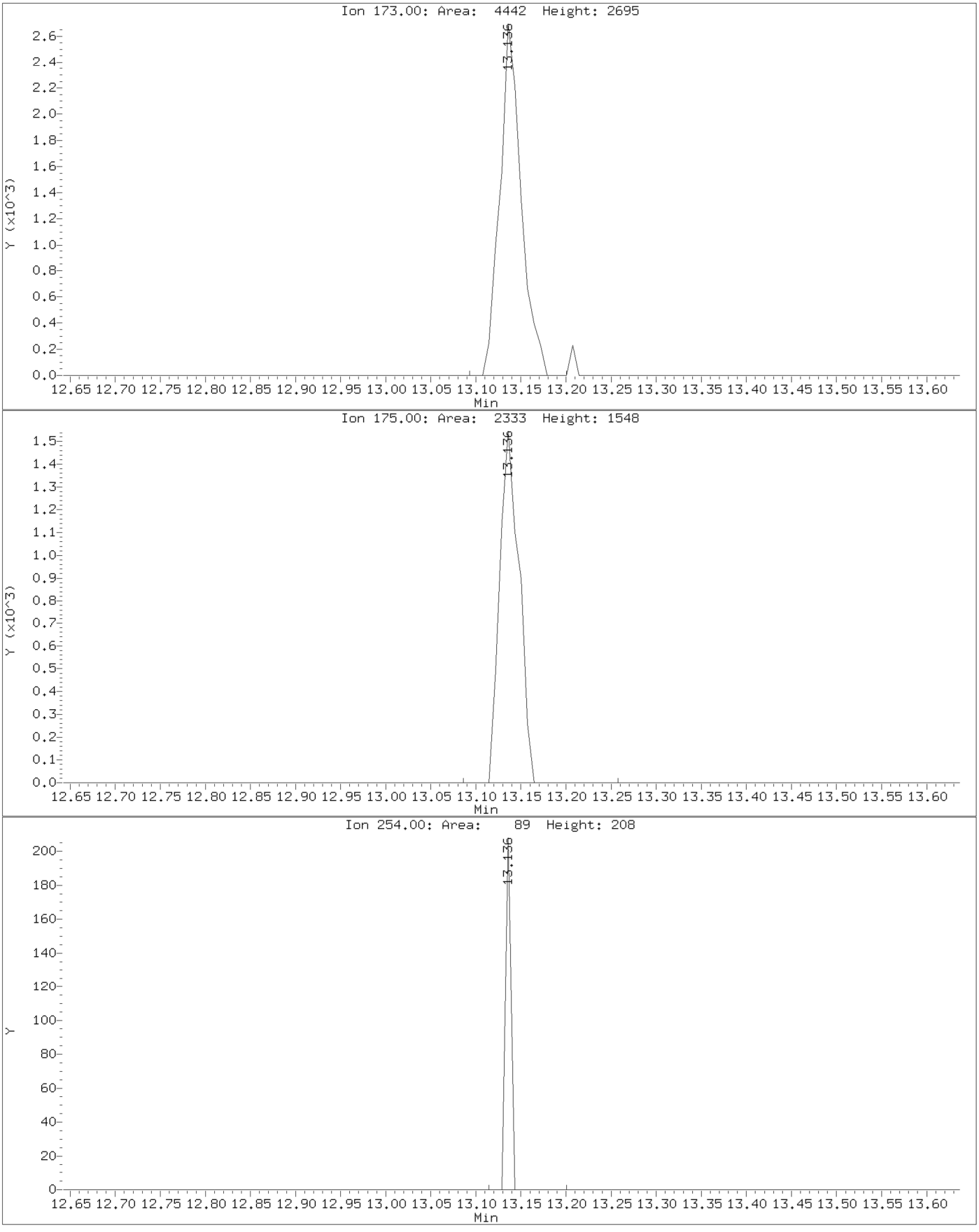
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Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: Bromoform
CAS Number: 75-25-2

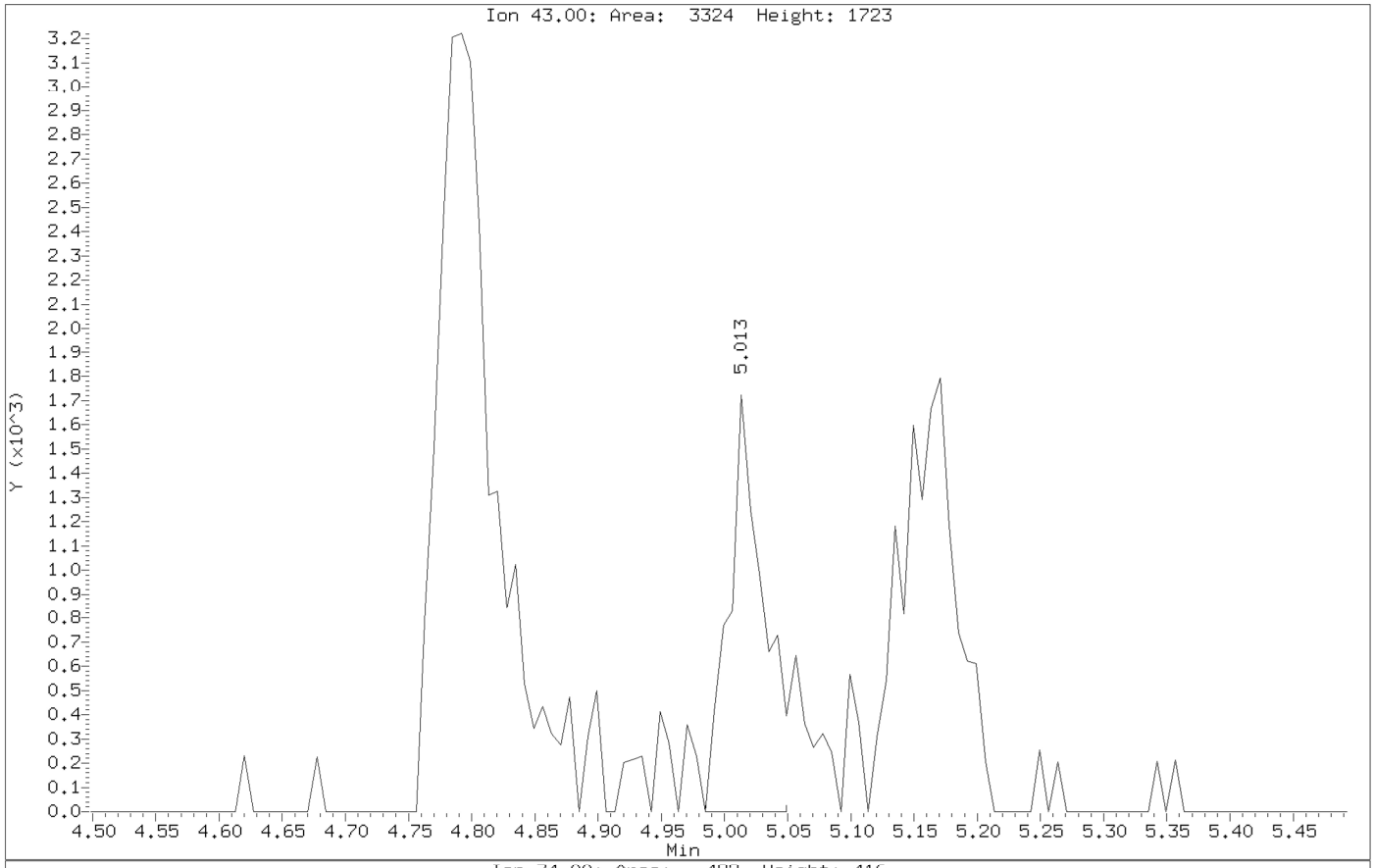
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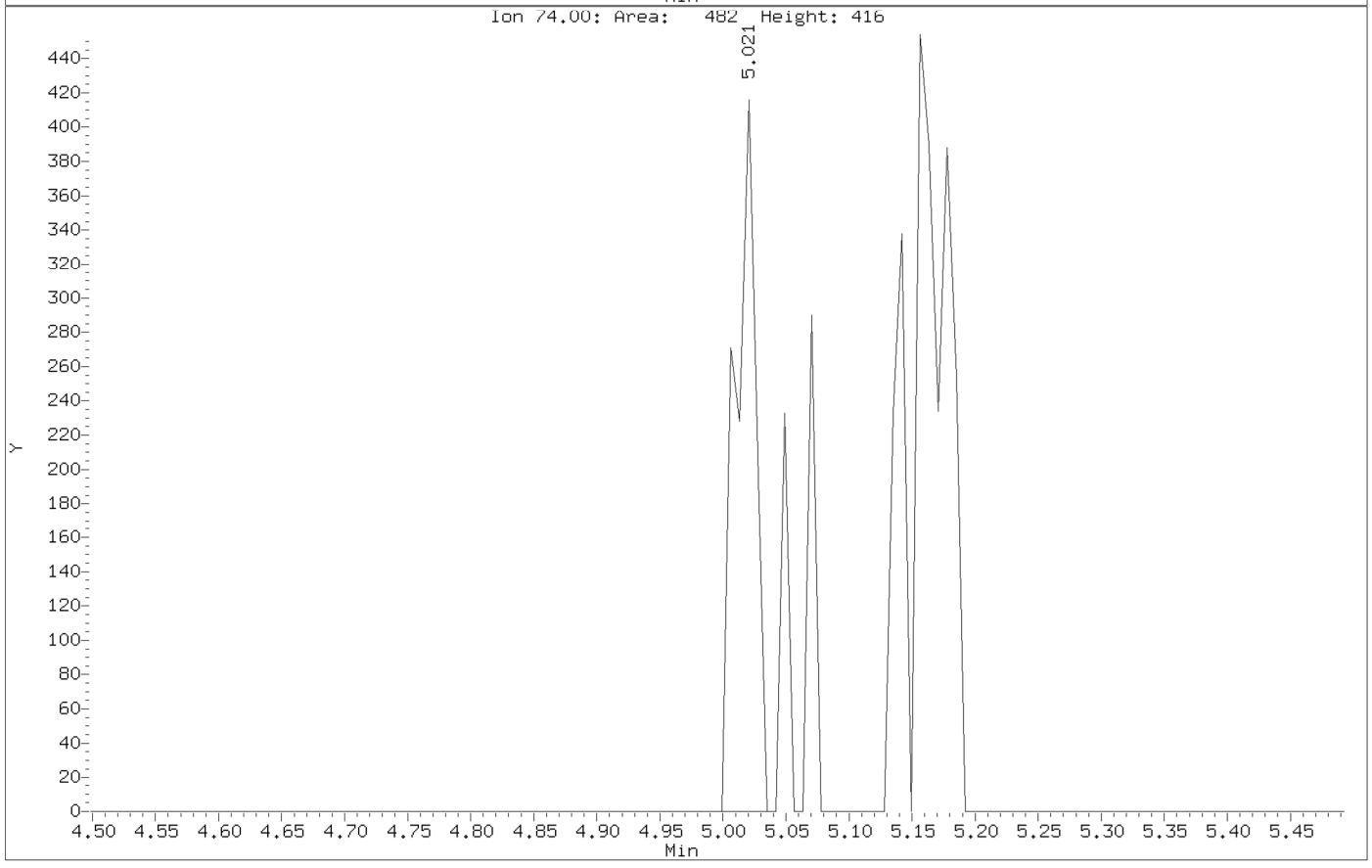


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Injection Date: 09-JUN-2014 13:39
Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: Methyl Acetate
CAS Number: 79-20-9

BEFORE MANUAL INTEGRATION

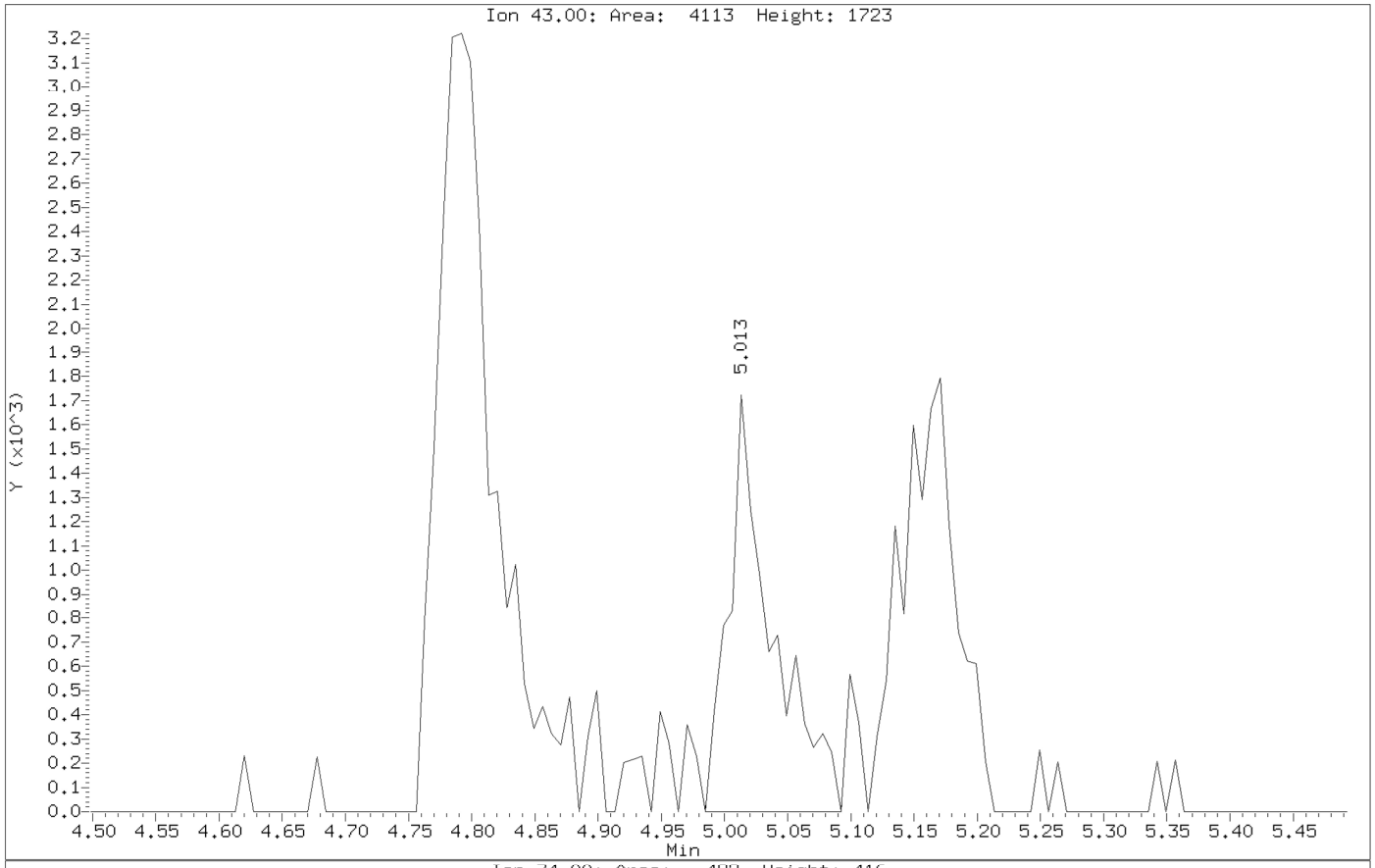


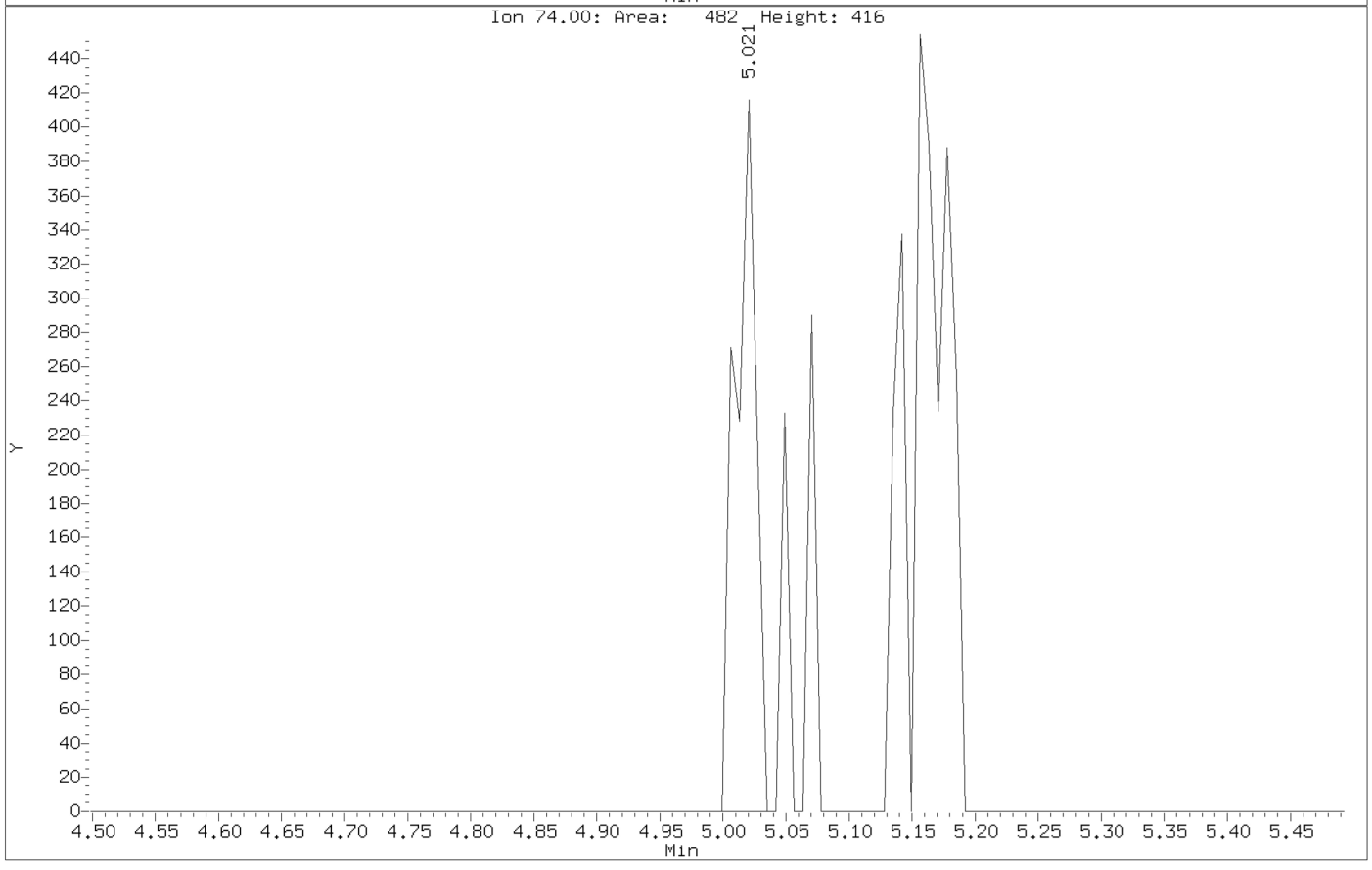


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Injection Date: 09-JUN-2014 13:39
Instrument: gcms-c.i
Client Sample ID: Initial Calibration

Compound: Methyl Acetate
CAS Number: 79-20-9

AFTER MANUAL INTEGRATION





Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7532A.D
Report Date: 11-Jun-2014 11:50

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C060914B.b\C7532A.D
Lab Smp Id: WG144357-7 Client Smp ID: Independent Source
Inj Date : 09-JUN-2014 15:57 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG144357-7
Misc Info : WG144357,WG144357-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C060914B.b\C826A08.m
Meth Date : 11-Jun-2014 11:49 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 9 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260OLM-S.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.001	2.000	(0.248)	435231	71.0310	71.0(R)	
2	Chloromethane	50	2.237	2.236	(0.277)	527247	52.5232	52.5	
3	Vinyl chloride	62	2.344	2.343	(0.291)	477314	55.9803	56.0	
4	Bromomethane	94	2.744	2.744	(0.340)	335937	54.7747	54.8	
5	Chloroethane	64	2.902	2.894	(0.360)	176215	47.3018	47.3	
6	Trichlorofluoromethane	101	3.080	3.080	(0.382)	701780	53.6121	53.6	
7	Diethyl Ether	59	3.509	3.509	(0.435)	248717	48.7750	48.8	
8	Tertiary-butyl alcohol	59	5.361	5.361	(0.665)	75173	196.790	197(R)	
9	1,1-Dichloroethene	96	3.774	3.773	(0.468)	341377	51.6317	51.6	
10	Carbon Disulfide	76	3.810	3.809	(0.472)	1071707	54.1453	54.1	
11	Freon-113	151	3.845	3.838	(0.477)	226048	42.8577	42.8	
12	Iodomethane	142	3.981	3.981	(0.494)	509727	57.7547	57.8	
13	Acrolein	56	4.289	4.288	(0.532)	280294	245.562	246	
14	Methylene Chloride	84	4.682	4.681	(0.581)	424975	52.8160	52.8	
15	Acetone	43	4.775	4.774	(0.592)	122858	60.1881	60.2(R)	
16	Isobutyl Alcohol	43	8.271	8.271	(1.026)	177127	893.990	894	
17	trans-1,2-Dichloroethene	96	4.954	4.946	(0.614)	393797	50.0968	50.1	
18	Allyl Chloride	41	4.503	4.502	(0.558)	580171	52.9989	53.0	
19	Methyl tert-butyl ether	73	5.154	5.153	(0.639)	1558749	105.471	105	
20	Acetonitrile	39	5.562	5.568	(0.690)	95136	464.710	465	
21	Di-isopropyl ether	45	5.805	5.811	(0.720)	1133551	55.4368	55.4	
22	Chloroprene	53	5.940	5.940	(0.737)	548176	52.1271	52.1	
23	Propionitrile	54	7.985	7.985	(0.990)	446902	506.611	507	

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7532A.D
Report Date: 11-Jun-2014 11:50

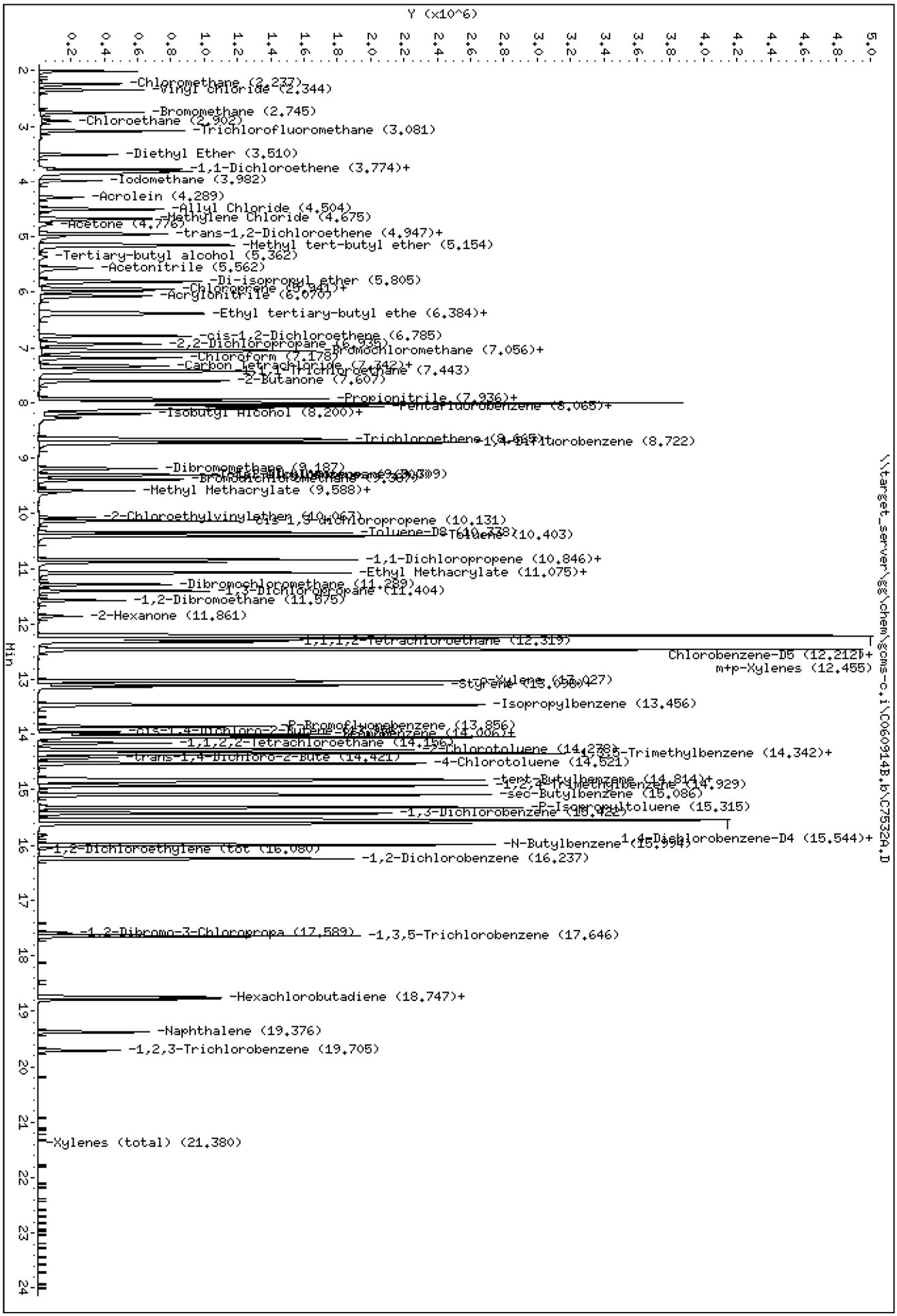
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	24 Methacrylonitrile	41	8.007	8.013	(0.993)	1886033	527.436	527	
	25 1,1-Dichloroethane	63	5.976	5.975	(0.741)	705936	54.0640	54.1	
	26 Acrylonitrile	52	6.069	6.068	(0.753)	503352	251.324	251	
	27 Ethyl tertiary-butyl ether	59	6.369	6.376	(0.790)	913499	53.2784	53.3	
	28 Vinyl Acetate	43	6.398	6.397	(0.734)	820552	57.5713	57.6	
	29 cis-1,2-Dichloroethene	96	6.784	6.783	(0.841)	454528	54.2317	54.2	
M	30 1,2-Dichloroethylene (total)	96				848325	104.329	104	
	31 Methyl Methacrylate	41	9.587	9.586	(1.099)	261140	47.9932	48.0	
	32 2,2-Dichloropropane	77	6.934	6.934	(0.860)	525810	51.7989	51.8	
	33 Bromochloromethane	128	7.063	7.062	(0.876)	217718	51.1166	51.1	
	34 Chloroform	83	7.177	7.177	(0.890)	719849	53.6992	53.7	
	35 Carbon Tetrachloride	117	7.342	7.341	(0.842)	548701	55.7359	55.7	
	36 Tetrahydrofuran	42	7.392	7.384	(0.917)	75446	47.9117	47.9	
$	37 Dibromofluoromethane	113	7.428	7.427	(0.921)	355774	43.4575	43.4	
	38 1,1,1-Trichloroethane	97	7.442	7.441	(0.923)	639202	53.4431	53.4	
	39 1,1-Dichloropropene	75	10.888	10.888	(1.248)	536382	59.9296	59.9	
	40 2-Butanone	43	7.606	7.606	(0.943)	143948	57.2283	57.2	
	41 Benzene	78	7.935	7.935	(0.910)	1543234	57.1270	57.1	
*	42 Pentafluorobenzene	168	8.064	8.063	(1.000)	1440718	50.0000		
	43 Cyclohexane	56	7.049	7.048	(0.874)	597323	53.5329	53.5	
	44 Ethyl Methacrylate	69	11.074	11.081	(1.270)	400069	48.2420	48.2	
$	45 1,2-Dichloroethane-D4	65	8.114	8.113	(1.006)	362334	43.5114	43.5	
	46 Tertiary-amyl methyl ether	73	8.100	8.099	(1.004)	746299	50.8588	50.8	
	47 1,2-Dichloroethane	62	8.200	8.199	(0.940)	498008	55.9345	55.9	
	48 Trichloroethene	95	8.672	8.670	(0.994)	403885	54.8381	54.8	
*	49 1,4-Difluorobenzene	114	8.722	8.721	(1.000)	1980133	50.0000		
	50 Dibromomethane	93	9.187	9.186	(1.053)	236286	50.8453	50.8	
	51 1,2-Dichloropropane	63	9.308	9.307	(1.067)	382498	58.6163	58.6	
	52 Bromodichloromethane	83	9.387	9.386	(1.076)	538265	58.1848	58.2	
	53 cis-1,3-dichloropropene	75	10.130	10.130	(1.161)	632557	60.5971	60.6(R)	
	54 1,4-Dioxane	88	9.630	9.629	(1.104)	73247	858.334	858	
$	55 Toluene-D8	98	10.345	10.344	(1.186)	1170691	47.2813	47.3	
	56 2-Chloroethylvinylether	63	10.066	10.065	(1.154)	132967	58.9261	58.9	
	57 Toluene	92	10.402	10.401	(1.193)	1028464	57.9884	58.0	
	58 4-methyl-2-pentanone	43	10.853	10.845	(1.244)	252996	50.8851	50.9	
	59 Tetrachloroethene	164	10.838	10.845	(0.888)	401829	46.8844	46.9	
	60 trans-1,3-Dichloropropene	75	10.888	10.888	(1.248)	536382	59.9296	59.9	
	61 1,1,2-Trichloroethane	83	11.074	11.073	(1.270)	295675	54.9860	55.0	
	62 Dibromochloromethane	129	11.289	11.288	(0.924)	412879	48.3098	48.3	
	63 1,3-Dichloropropane	76	11.403	11.402	(0.934)	585360	49.6397	49.6	
	64 1,2-Dibromoethane	107	11.575	11.574	(1.327)	357401	51.4138	51.4	
	65 2-Hexanone	43	11.861	11.860	(0.971)	181861	44.5971	44.6	
*	66 Chlorobenzene-D5	117	12.211	12.210	(1.000)	2180998	50.0000		
	67 Chlorobenzene	112	12.233	12.232	(1.002)	1238682	55.9764	56.0	
	152 1-Chlorohexane	91	12.204	12.203	(0.999)	659949	50.1897	50.2	
	68 Ethylbenzene	106	12.268	12.268	(1.005)	674229	52.1279	52.1	
	69 1,1,1,2-Tetrachloroethane	131	12.318	12.318	(1.009)	468400	53.1105	53.1	
M	70 Xylenes (total)	106				2457013	171.995	172	
	71 m+p-Xylenes	106	12.454	12.453	(1.020)	1643668	112.434	112	
	72 o-Xylene	106	13.026	13.025	(1.067)	813345	59.5611	59.6	
	73 Styrene	104	13.098	13.097	(1.073)	1329475	56.8126	56.8	
	74 Bromoform	173	13.141	13.140	(1.076)	318923	52.8403	52.8	
	75 Isopropylbenzene	105	13.455	13.462	(0.866)	2069859	55.7848	55.8	
$	76 P-Bromofluorobenzene	95	13.856	13.855	(1.589)	503967	47.4811	47.5	

Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C7532A.D
Report Date: 11-Jun-2014 11:50

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
77	cis-1,4-Dichloro-2-Butene	53	13.956	13.962	(0.898)	115299	43.5868	43.6	
78	trans-1,4-Dichloro-2-Butene	53	14.421	14.420	(0.928)	104944	42.6719	42.7	
79	Bromobenzene	156	14.006	14.005	(0.901)	617699	55.0646	55.1	
80	N-Propylbenzene	91	14.049	14.048	(0.904)	2411294	56.5371	56.5	
81	1,1,2,2-Tetrachloroethane	83	14.156	14.155	(0.911)	441590	48.7379	48.7	
82	1,3,5-Trimethylbenzene	105	14.342	14.341	(0.923)	1676637	48.2836	48.3	
83	2-Chlorotoluene	91	14.278	14.277	(0.919)	1424671	58.2638	58.3	
84	1,2,3-Trichloropropane	75	14.356	14.355	(0.924)	336034	47.9796	48.0	
85	4-Chlorotoluene	91	14.521	14.520	(0.934)	1497071	61.2110	61.2(R)	
86	tert-Butylbenzene	119	14.814	14.813	(0.953)	1823446	57.8572	57.8	
87	Pentachloroethane	117	14.850	14.849	(0.955)	386811	51.7929	51.8	
88	1,2,4-Trimethylbenzene	105	14.928	14.927	(0.960)	1673933	49.4829	49.5	
89	P-Isopropyltoluene	119	15.314	15.313	(0.985)	1909755	52.2469	52.2	
90	1,3-Dichlorobenzene	146	15.422	15.421	(0.992)	1074671	55.8864	55.9	
* 91	1,4-Dichlorobenzene-D4	152	15.543	15.542	(1.000)	1279887	50.0000		
92	1,4-Dichlorobenzene	146	15.565	15.564	(1.001)	1062412	49.1394	49.1	
93	N-Butylbenzene	91	15.994	15.993	(1.029)	1736134	49.9881	50.0	
94	sec-Butylbenzene	105	15.086	15.092	(0.971)	2244033	53.6833	53.7	
95	1,2-Dichlorobenzene	146	16.237	16.242	(1.045)	979024	56.8675	56.9	
96	1,2-Dibromo-3-Chloropropane	75	17.588	17.594	(1.132)	54981	42.5061	42.5	
97	1,3,5-Trichlorobenzene	180	17.645	17.644	(1.135)	739997	47.1239	47.1	
98	Hexachlorobutadiene	225	18.746	18.746	(1.206)	248642	39.5681	39.6(R)	
99	1,2,4-Trichlorobenzene	180	18.782	18.788	(1.208)	421102	40.1448	40.1	
100	1,2,3-Trimethylbenzene	105	15.607	15.607	(1.004)	1592780	49.9024	49.9	
101	Naphthalene	128	19.376	19.375	(1.247)	604775	36.1363	36.1(R)	
102	1,2,3-Trichlorobenzene	180	19.712	19.711	(1.268)	196154	35.0702	35.1(R)	
103	Methyl Acetate	43	4.997	4.996	(0.620)	232471	50.5306	50.5	
104	Methylcyclohexane	83	8.650	8.650	(1.073)	602521	46.3950	46.4	
M 153	Total Alkylbenzenes	100				13475232	368.079	368	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Y (x10^6)
Min
-Chloromethane (2.277)
-Vinyl Chloride (2.344)
-Bromomethane (2.745)
-Chloroethane (2.902)
-Trichlorofluoromethane (3.081)
-Diethyl Ether (3.510)
-1,1-Dichloroethene (3.774)+
-Iodomethane (3.982)
-Acrolein (4.289)
-Allyl Chloride (4.504)
-Methylene Chloride (4.675)
-Acetone (4.776)
-trans-1,2-Dichloroethene (4.947)+
-Methyl tert-butyl ether (5.154)
-Tertiary-butyl alcohol (5.362)
-Acetonitrile (5.562)
-Di-isopropyl ether (5.805)
-Acrylonitrile (6.070)
-Ethyl tertiary-butyl ethe (6.384)+
-cis-1,2-Dichloroethene (6.785)
-2,2-Dichloropropane (6.936)
-Bromochloromethane (7.056)+
-Chloroform (7.178)
-Carbon tetrachloride (7.342)+
-1,1,1-Trichloroethane (7.443)
-2-Butanone (7.607)
-Propionitrile (7.936)+
-Pentafluorobenzene (8.065)+
-Isobutyl Alcohol (8.200)+
-Trichloroethene (8.665)
-1,4-Difluorobenzene (8.722)
-Dibromomethane (9.187)
-Methyl Methacrylate (9.588)+
-2-Chloroethylvinylether (10.067)
-cis-1,3-Dichloropropene (10.131)
-Toluene-D8 (10.338)
-Toluene (10.403)
-1,1-Dichloropropene (10.846)+
-Ethyl Methacrylate (11.075)+
-Dibromochloromethane (11.269)
-1,3-Dichloropropane (11.404)
-1,2-Dibromoethane (11.575)
-2-Hexanone (11.861)
-1,1,1,2-Tetrachloroethane (12.319)
Chlorobenzene-D5 (12.212)+
m+p-Xylenes (12.455)
-o-Xylene (13.027)
-Styrene (13.056)
-Isopropylbenzene (13.456)
-Bromofluorobenzene (13.856)
-cis-1,4-Dichloro-2-Butene (14.006)+
-1,1,2,2-Tetrachloroethane (14.156)
-Chlorotoluene (14.278)+
-1,2,3-Trimethylbenzene (14.342)+
-trans-1,4-Dichloro-2-Bute (14.421)
-4-Chlorotoluene (14.521)
-tert-Butylbenzene (14.814)+
-1,2,4-Trimethylbenzene (14.929)
-sec-Butylbenzene (15.086)
-p-Isopropyltoluene (15.315)
-1,3-Dichlorobenzene (15.422)
-1,4-Dichlorobenzene-D4 (15.544)+
-N-Butylbenzene (15.954)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.237)
-1,2-Dibromo-3-Chloropropa (17.589)
-1,3,5-Trichlorobenzene (17.646)
-Hexachlorobutadiene (18.747)+
-Naphthalene (19.376)
-1,2,3-Trichlorobenzene (19.705)
-Xylenes (total) (21.380)
Data File: \\target_server\gg\chem\gcms-c.i\C060914B.b\C75324.D
Date : 09-JUN-2014 15:57
Client ID: Independent Source
Sample Info: WG144357-7
\\target_server\gg\chem\gcms-c.i\C060914B.b\C75324.D
Instrument: gcms-c.i

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** WE53-7

Project : NCTAMSLANT Cutler CTO WE53 **Instrument ID:** GCMS-D

Lab File IDs : D8863.D D8862.D D8861.D D8867.D D8866.D D8865.D **Column ID:**

Calibration Date(s): 11-JUN-14 14:03, 11-JUN-14 17:18

	1.0000 Level 1	5.0000 Level 2	20.0000 Level 3	50.0000 Level 4	100.0000 Level 5	200.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
Chloromethane	5583	29208	88242	325103	607521	893361	LNR	-0.07536	0.50813		0.99512	0.99000	O
Vinyl chloride	0.71660	0.81779	0.64834	0.66344	0.57627	0.57657	AVG		0.66650		13.74564	15.00000	O
Chloroethane	4304	21970	79023	230405	411881	570418	QUA	-0.01726	1.92228	0.93764	0.99953	0.99000	O
1,1-Dichloroethene	0.46560	0.47848	0.40004	0.47123	0.40273	0.42374	AVG		0.44030		8.10055	15.00000	O
Methylene Chloride	8579	28391	86127	295398	549992	924716	LNR	-0.03486	0.51494		0.99849	0.99000	O
Acetone	0.10172	0.13535	0.12822	0.13259	0.12043	0.13452	AVG		0.12547		10.25315	15.00000	O
trans-1,2-Dichloroethene	0.48665	0.55193	0.45979	0.53805	0.48044	0.49969	AVG		0.50276		7.04743	15.00000	O
Methyl tert-butyl ether	7314	50372	209805	1075487	2226418	3861423	LNR	0.11070	1.09268		0.99805	0.99000	O
1,1-Dichloroethane	0.96584	1.03644	0.89268	0.89566	0.79965	0.85141	AVG		0.90695		9.24667	15.00000	O
cis-1,2-Dichloroethene	0.51486	0.56099	0.50577	0.56007	0.52000	0.55189	AVG		0.53560		4.62815	15.00000	O
Chloroform	0.95064	1.02976	0.86780	0.87941	0.79208	0.83787	AVG		0.89293		9.51162	15.00000	O
Carbon Tetrachloride	0.30460	0.35379	0.33351	0.38150	0.34975	0.38186	AVG		0.35084		8.40720	15.00000	O
1,1,1-Trichloroethane	0.60213	0.76616	0.68590	0.75308	0.68015	0.74027	AVG		0.70462		8.71606	15.00000	O
Benzene	1.20269	1.40763	1.28510	1.36542	1.22561	1.28045	AVG		1.29448		6.11088	15.00000	O
1,2-Dichloroethane	0.41166	0.44706	0.40102	0.39151	0.35576	0.38089	AVG		0.39798		7.72139	15.00000	O
Trichloroethene	0.26735	0.34165	0.29902	0.31152	0.28611	0.33730	AVG		0.30716		9.44843	15.00000	O
Toluene	0.58029	0.82208	0.77109	0.83801	0.77541	0.85755	AVG		0.77407		13.03761	15.00000	O
Tetrachloroethene	0.24379	0.25563	0.24722	0.27496	0.24972	0.26887	AVG		0.25670		4.88980	15.00000	O
1,1,2-Trichloroethane	0.20370	0.25344	0.24091	0.25193	0.23065	0.27152	AVG		0.24203		9.59688	15.00000	O
2-Hexanone	3381	33868	186069	723419	1403537	2688605	LNR	-0.12947	0.15707		0.99706	0.99000	O
Chlorobenzene	0.96794	0.99954	0.83340	0.88184	0.77254	0.76965	AVG		0.87082		11.18289	15.00000	O
Ethylbenzene	0.43379	0.50719	0.45212	0.49365	0.44890	0.46264	AVG		0.46638		6.05937	15.00000	O
Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+0	15.00000	M (
m+p-Xylenes	0.42651	0.56498	0.54895	0.61544	0.56613	0.57722	AVG		0.54987		11.71774	15.00000	O
o-Xylene	3198	22814	109409	429616	915753	1886975	LNR	0.02237	0.54698		0.99907	0.99000	O
Styrene	5136	42949	205507	782375	1698997	3419911	LNR	0.01522	0.99322		0.99956	0.99000	O
Isopropylbenzene	1.36140	1.85267	1.96879	2.22558	1.88838	1.89962	AVG		1.86607		15.08675	15.00000	W(
1,1,2,2-Tetrachloroethane	0.70600	0.78315	0.73745	0.77385	0.65355	0.68898	AVG		0.72383		6.95685	15.00000	O
1,3-Dichlorobenzene	0.88009	1.12941	1.07602	1.20288	1.06857	1.10807	AVG		1.07751		10.03003	15.00000	O
1,4-Dichlorobenzene	1.41018	1.43747	1.25612	1.36202	1.21498	1.26424	AVG		1.32417		6.90590	15.00000	O
1,2-Dichlorobenzene	0.91238	1.13526	1.09963	1.22188	1.07066	1.10460	AVG		1.09073		9.31990	15.00000	O
1,2,4-Trichlorobenzene	2504	18231	84401	363731	755977	1488828	LNR	-0.00659	0.69940		0.99781	0.99000	O
Methylcyclohexane	0.45727	0.48971	0.51310	0.54946	0.54997	0.64334	AVG		0.53381		12.06367	15.00000	O
Dibromofluoromethane	0.46414	0.52982	0.45743	0.46315	0.43184	0.49067	AVG		0.47284		7.11092	15.00000	
1,2-Dichloroethane-D4	0.65052	0.66089	0.54484	0.52851	0.45843	0.52807	AVG		0.56188		13.99307	15.00000	
Toluene-D8	0.78981	1.07993	1.01331	1.09300	0.99801	1.07313	AVG		1.00786		11.25813	15.00000	
P-Bromofluorobenzene	0.28576	0.37748	0.36495	0.42664	0.42671	+++++	AVG		0.37631		15.38229	15.00000	

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services
SDG: WE53-7
Project : NCTAMSLANT Cutler CTO WE53
Instrument ID: GCMS-D
Lab File IDs : D8863.D D8862.D D8861.D D8867.D D8866.D D8865.D
Column ID:
Calibration Date(s): 11-JUN-14 14:03
11-JUN-14 17:18

Legend: O = Kept Original Curve
Y = Failed Minimum RF
W = Failed %RSD Value

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8868A.D
Report Date: 12-Jun-2014 08:57

Katahdin Analytical Services

RECOVERY REPORT

Client Name: Client SDG: WG144515
Sample Matrix: LIQUID Fraction: VOA
Lab Smp Id: WG144515-7 Client Smp ID: Independent Source
Level: LOW Operator: DJP
Data Type: MS DATA SampleType: LCS
SpikeList File: IND_CHECK4.1.spk Quant Type: ISTD
Sublist File: SW8260-S.sub
Method File: \\target_server\gg\chem\gcms-d.i\D061114.b\D826A48.m
Misc Info: WG144515,WG144515-4,SH4056-8

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	45.1	90.27	80-120
	2 Chloromethane	50.0	52.0	104.11	80-120
	3 Vinyl chloride	50.0	43.9	87.77	80-120
	4 Bromomethane	50.0	49.7	99.45	80-120
	5 Chloroethane	50.0	45.5	90.97	80-120
	6 Trichlorofluoromet	50.0	40.6	81.23	80-120
	7 Diethyl Ether	50.0	43.2	86.52	80-120
	8 Tertiary-butyl alc	250	267	106.86	80-120
	9 1,1-Dichloroethene	50.0	47.7	95.39	80-120
	10 Carbon Disulfide	50.0	50.6	101.20	80-120
	11 Freon-113	50.0	43.5	86.98	80-120
	12 Iodomethane	50.0	65.1	130.17*	80-120
	13 Acrolein	250	255	101.93	80-120
	14 Methylene Chloride	50.0	48.1	96.16	80-120
	15 Acetone	50.0	62.7	125.38*	80-120
	16 Isobutyl Alcohol	1000	1120	111.64	80-120
	17 trans-1,2-Dichloro	50.0	46.9	93.80	80-120
	18 Allyl Chloride	50.0	45.6	91.24	80-120
	19 Methyl tert-butyl	100	95.9	95.94	80-120
	20 Acetonitrile	500	511	102.20	80-120
	21 Di-isopropyl ether	50.0	50.9	101.74	80-120
	22 Chloroprene	50.0	46.5	93.01	80-120
	23 Propionitrile	500	465	93.02	80-120
	24 Methacrylonitrile	500	445	88.96	80-120
	25 1,1-Dichloroethane	50.0	45.4	90.83	80-120
	26 Acrylonitrile	250	234	93.61	80-120
	27 Ethyl tertiary-but	50.0	57.3	114.59	80-120
	28 Vinyl Acetate	50.0	48.6	97.16	80-120
	29 cis-1,2-Dichloroet	50.0	47.3	94.62	80-120
M	30 1,2-Dichloroethyle	100	94.2	94.21	80-120
	31 Methyl Methacrylat	50.0	56.2	112.46	80-120
	32 2,2-Dichloropropan	50.0	44.9	89.75	80-120
	33 Bromochloromethane	50.0	49.2	98.52	80-120
	34 Chloroform	50.0	45.1	90.27	80-120
	35 Carbon Tetrachlori	50.0	48.1	96.16	80-120
	36 Tetrahydrofuran	50.0	49.6	99.26	80-120
	38 1,1,1-Trichloroeth	50.0	46.6	93.27	80-120
	39 1,1-Dichloropropen	50.0	47.4	94.90	80-120
	40 2-Butanone	50.0	54.0	108.04	80-120
	41 Benzene	50.0	47.4	94.89	80-120

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8868A.D
Report Date: 12-Jun-2014 08:57

	SPIKE	COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43	Cyclohexane	50.0	44.8	89.65	80-120
	44	Ethyl Methacrylate	50.0	57.3	114.52	80-120
	46	Tertiary-amyl meth	50.0	53.8	107.67	80-120
	47	1,2-Dichloroethane	50.0	44.7	89.41	80-120
	48	Trichloroethene	50.0	46.7	93.34	80-120
	50	Dibromomethane	50.0	47.4	94.88	80-120
	51	1,2-Dichloropropan	50.0	49.0	98.04	80-120
	52	Bromodichlorometha	50.0	51.1	102.30	80-120
	53	cis-1,3-dichloropr	50.0	45.5	91.03	80-120
	54	1,4-Dioxane	1000	1120	112.32	80-120
	56	2-Chloroethylvinyl	50.0	30.3	60.64*	80-120
	57	Toluene	50.0	48.2	96.36	80-120
	58	4-methyl-2-pentano	50.0	44.6	89.11	80-120
	59	Tetrachloroethene	50.0	47.7	95.40	80-120
	60	trans-1,3-Dichloro	50.0	46.8	93.70	80-120
	61	1,1,2-Trichloroeth	50.0	48.0	96.09	80-120
	62	Dibromochlorometha	50.0	52.1	104.20	80-120
	63	1,3-Dichloropropan	50.0	51.7	103.43	80-120
	64	1,2-Dibromoethane	50.0	50.5	101.00	80-120
	65	2-Hexanone	50.0	42.5	85.01	80-120
	67	Chlorobenzene	50.0	49.6	99.15	80-120
	152	1-Chlorohexane	50.0	47.6	95.14	80-120
	68	Ethylbenzene	50.0	47.6	95.27	80-120
	69	1,1,1,2-Tetrachlor	50.0	50.3	100.53	80-120
M	70	Xylenes (total)	150	155	103.19	80-120
	71	m+p-Xylenes	100	104	103.75	80-120
	72	o-Xylene	50.0	51.0	102.06	80-120
	73	Styrene	50.0	47.2	94.46	80-120
	74	Bromoform	50.0	44.8	89.52	80-120
	75	Isopropylbenzene	50.0	57.0	114.03	80-120
	77	cis-1,4-Dichloro-2	50.0	48.9	97.76	80-120
	78	trans-1,4-Dichloro	50.0	50.2	100.37	80-120
	79	Bromobenzene	50.0	50.6	101.11	80-120
	80	N-Propylbenzene	50.0	56.8	113.60	80-120
	81	1,1,2,2-Tetrachlor	50.0	47.8	95.54	80-120
	82	1,3,5-Trimethylben	50.0	47.0	94.03	80-120
	83	2-Chlorotoluene	50.0	53.7	107.37	80-120
	84	1,2,3-Trichloropro	50.0	46.8	93.63	80-120
	85	4-Chlorotoluene	50.0	55.8	111.57	80-120
	86	tert-Butylbenzene	50.0	49.5	99.03	80-120
	87	Pentachloroethane	50.0	48.1	96.15	80-120
	88	1,2,4-Trimethylben	50.0	49.5	98.95	80-120
	89	P-Isopropyltoluene	50.0	52.4	104.89	80-120
	90	1,3-Dichlorobenzen	50.0	54.0	108.11	80-120
	92	1,4-Dichlorobenzen	50.0	45.9	91.79	80-120
	93	N-Butylbenzene	50.0	50.2	100.49	80-120
	94	sec-Butylbenzene	50.0	52.8	105.51	80-120
	95	1,2-Dichlorobenzen	50.0	54.3	108.65	80-120
	96	1,2-Dibromo-3-Chlo	50.0	50.8	101.67	80-120
	97	1,3,5-Trichloroben	50.0	52.2	104.44	80-120
	98	Hexachlorobutadien	50.0	47.1	94.21	80-120
	99	1,2,4-Trichloroben	50.0	50.0	100.11	80-120
	100	1,2,3-Trimethylben	50.0	49.9	99.90	80-120
	101	Naphthalene	50.0	53.1	106.21	80-120

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8868A.D
Report Date: 12-Jun-2014 08:57

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
102 1,2,3-Trichloroben	50.0	52.0	103.90	80-120
103 Methyl Acetate	50.0	47.2	94.42	80-120
104 Methylcyclohexane	50.0	45.4	90.82	80-120
M 153 Total Alkylbenzene	350	358	102.36	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	50.3	100.55	68-128
$ 45 1,2-Dichloroethane	50.0	44.2	88.52	67-135
$ 55 Toluene-D8	50.0	56.2	112.44	65-128
$ 76 P-Bromofluorobenze	50.0	57.4	114.84	56-133

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8861.D
Report Date: 12-Jun-2014 09:00

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D061114.b\D8861.D
Lab Smp Id: WG144515-3 Client Smp ID: Initial Calibration
Inj Date : 11-JUN-2014 14:03 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG144515-3
Misc Info : WG143849,WG143849-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D061114.b\D826A48.m
Meth Date : 12-Jun-2014 08:50 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 14:03 Cal File: D8861.D
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

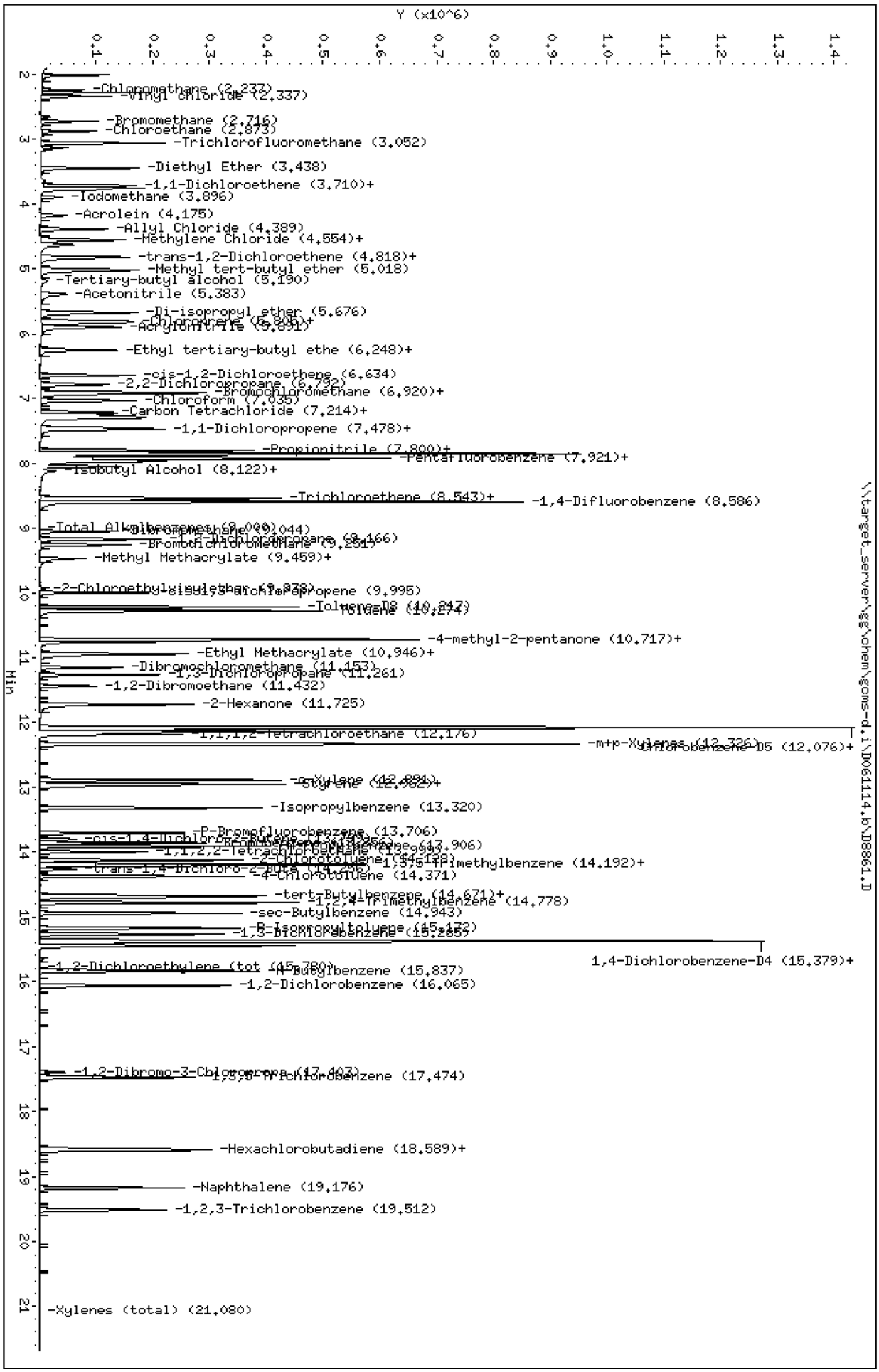
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.008	2.011	(0.253)	79637	20.0000	19.6	
2	Chloromethane	50	2.237	2.233	(0.282)	88242	20.0000	19.0	
3	Vinyl chloride	62	2.337	2.333	(0.295)	98849	20.0000	19.4	
4	Bromomethane	94	2.716	2.712	(0.343)	46830	20.0000	15.6	
5	Chloroethane	64	2.873	2.869	(0.362)	79023	20.0000	21.1	
6	Trichlorofluoromethane	101	3.052	3.048	(0.385)	151506	20.0000	19.8	
7	Diethyl Ether	59	3.445	3.441	(0.435)	57943	20.0000	19.3	
8	Tertiary-butyl alcohol	59	5.190	5.186	(0.655)	14564	100.000	76.4	
9	1,1-Dichloroethene	96	3.710	3.705	(0.468)	60992	20.0000	18.2	
10	Carbon Disulfide	76	3.738	3.741	(0.472)	210965	20.0000	18.9	
11	Freon-113	151	3.774	3.770	(0.476)	34999	20.0000	18.8	
12	Iodomethane	142	3.895	3.891	(0.491)	41920	20.0000	14.9	
13	Acrolein	56	4.174	4.170	(0.527)	50414	100.000	92.0	
14	Methylene Chloride	84	4.546	4.549	(0.573)	86127	20.0000	20.2	
15	Acetone	43	4.625	4.621	(0.583)	97748	100.000	102	
16	Isobutyl Alcohol	43	8.121	8.117	(1.024)	16518	400.000	219	
17	trans-1,2-Dichloroethene	96	4.818	4.821	(0.608)	70101	20.0000	18.3	
18	Allyl Chloride	41	4.389	4.392	(0.554)	83175	20.0000	19.3	
19	Methyl tert-butyl ether	73	5.018	5.014	(0.633)	209805	40.0000	30.7	
20	Acetonitrile	39	5.383	5.379	(0.679)	16635	200.000	228	
21	Di-isopropyl ether	45	5.676	5.672	(0.716)	177952	20.0000	19.5	
22	Chloroprene	53	5.797	5.800	(0.731)	85469	20.0000	20.2	
23	Propionitrile	54	7.814	7.824	(0.986)	107216	200.000	201	
24	Methacrylonitrile	41	7.849	7.860	(0.990)	436791	200.000	229	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8861.D
Report Date: 12-Jun-2014 09:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
25	1,1-Dichloroethane	63	5.826	5.829	(0.735)	136101	20.0000	19.7	
26	Acrylonitrile	52	5.890	5.893	(0.743)	106336	100.000	99.4	
27	Ethyl tertiary-butyl ether	59	6.241	6.237	(0.787)	65574	20.0000	13.4	
28	Vinyl Acetate	43	6.248	6.244	(0.728)	109817	20.0000	17.2	
29	cis-1,2-Dichloroethene	96	6.634	6.637	(0.837)	77111	20.0000	18.9	
31	Methyl Methacrylate	41	9.458	9.454	(1.102)	38021	20.0000	16.8	
32	2,2-Dichloropropane	77	6.791	6.787	(0.857)	67721	20.0000	17.2	
33	Bromochloromethane	128	6.913	6.916	(0.872)	35775	20.0000	18.7	
34	Chloroform	83	7.034	7.037	(0.887)	132308	20.0000	19.4	
35	Carbon Tetrachloride	117	7.213	7.216	(0.840)	82644	20.0000	19.0	
36	Tetrahydrofuran	42	7.242	7.238	(0.913)	76926	100.000	91.3	
$ 37	Dibromofluoromethane	113	7.277	7.281	(0.918)	69742	20.0000	19.3	
38	1,1,1-Trichloroethane	97	7.306	7.302	(0.922)	104575	20.0000	19.5	
39	1,1-Dichloropropene	75	7.478	7.474	(0.871)	99883	20.0000	20.4	
40	2-Butanone	43	7.449	7.445	(0.940)	143394	100.000	97.9	
41	Benzene	78	7.799	7.795	(0.908)	318445	20.0000	19.8	
* 42	Pentafluorobenzene	168	7.928	7.931	(1.000)	381159	50.0000		
43	Cyclohexane	56	6.927	6.930	(0.874)	103737	20.0000	21.0	
44	Ethyl Methacrylate	69	10.960	10.956	(1.276)	66693	20.0000	16.6	
$ 45	1,2-Dichloroethane-D4	65	7.964	7.967	(1.004)	83068	20.0000	19.4	
46	Tertiary-amyl methyl ether	73	7.971	7.974	(1.005)	46816	20.0000	12.7	
47	1,2-Dichloroethane	62	8.050	8.053	(0.938)	99373	20.0000	20.2	
48	Trichloroethene	95	8.543	8.545	(0.995)	74096	20.0000	19.5	
* 49	1,4-Difluorobenzene	114	8.586	8.589	(1.000)	619495	50.0000		
50	Dibromomethane	93	9.044	9.047	(1.053)	46425	20.0000	18.9	
51	1,2-Dichloropropane	63	9.165	9.168	(1.067)	72012	20.0000	19.6	
52	Bromodichloromethane	83	9.251	9.254	(1.077)	93838	20.0000	19.4	
53	cis-1,3-dichloropropene	75	9.994	9.998	(1.164)	102570	20.0000	17.5	
54	1,4-Dioxane	88	9.494	9.497	(1.106)	10661	400.000	289	
$ 55	Toluene-D8	98	10.216	10.219	(1.190)	251096	20.0000	20.1	
56	2-Chloroethylvinylether	63	9.937	9.933	(1.157)	4017	20.0000	15.8	
57	Toluene	92	10.273	10.276	(1.197)	191074	20.0000	19.9	
58	4-methyl-2-pentanone	43	10.717	10.713	(1.248)	281103	100.000	100	
59	Tetrachloroethene	164	10.724	10.727	(0.888)	57498	20.0000	19.3	
60	trans-1,3-Dichloropropene	75	10.752	10.755	(1.252)	83095	20.0000	18.0	
61	1,1,2-Trichloroethane	83	10.938	10.941	(1.274)	59698	20.0000	19.9	
62	Dibromochloromethane	129	11.153	11.156	(0.924)	69737	20.0000	19.7	
63	1,3-Dichloropropane	76	11.267	11.263	(0.933)	124398	20.0000	20.5	
64	1,2-Dibromoethane	107	11.432	11.435	(1.331)	63377	20.0000	18.4	
65	2-Hexanone	43	11.718	11.721	(0.970)	186069	100.000	95.4	
* 66	Chlorobenzene-D5	117	12.075	12.071	(1.000)	581446	50.0000		
67	Chlorobenzene	112	12.097	12.100	(1.002)	193832	20.0000	19.1	
152	1-Chlorohexane	91	12.075	12.078	(1.000)	91470	20.0000	19.2	
68	Ethylbenzene	106	12.140	12.143	(1.005)	105153	20.0000	19.4	
69	1,1,1,2-Tetrachloroethane	131	12.175	12.178	(1.008)	63161	20.0000	19.1	
71	m+p-Xylenes	106	12.325	12.329	(1.021)	255347	40.0000	39.9	
72	o-Xylene	106	12.890	12.893	(1.068)	109409	20.0000	18.3	
73	Styrene	104	12.962	12.958	(1.073)	205507	20.0000	18.6	
74	Bromoform	173	12.983	12.986	(1.075)	41271	20.0000	17.8	
75	Isopropylbenzene	105	13.319	13.322	(0.866)	261709	20.0000	21.1	
$ 76	P-Bromofluorobenzene	95	13.705	13.708	(1.596)	90435	20.0000	19.4	
77	cis-1,4-Dichloro-2-Butene	53	13.798	13.801	(0.897)	15699	20.0000	17.6	
78	trans-1,4-Dichloro-2-Butene	53	14.256	14.259	(0.927)	16181	20.0000	18.3	
79	Bromobenzene	156	13.856	13.859	(0.901)	81046	20.0000	20.2	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8861.D
Report Date: 12-Jun-2014 09:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	13.906	13.909	(0.904)	328899	20.0000	20.8	
81	1,1,2,2-Tetrachloroethane	83	13.999	13.994	(0.910)	98029	20.0000	20.4	
82	1,3,5-Trimethylbenzene	105	14.199	14.202	(0.923)	249687	20.0000	19.5	
83	2-Chlorotoluene	91	14.127	14.123	(0.919)	205041	20.0000	20.7	
84	1,2,3-Trichloropropane	75	14.192	14.188	(0.923)	78078	20.0000	20.4	
85	4-Chlorotoluene	91	14.370	14.373	(0.934)	215808	20.0000	21.0	
86	tert-Butylbenzene	119	14.671	14.667	(0.954)	208048	20.0000	18.6	
87	Pentachloroethane	117	14.685	14.688	(0.955)	49033	20.0000	18.6	
88	1,2,4-Trimethylbenzene	105	14.778	14.774	(0.961)	260673	20.0000	19.6	
89	P-Isopropyltoluene	119	15.171	15.167	(0.987)	222028	20.0000	19.0	
90	1,3-Dichlorobenzene	146	15.264	15.260	(0.993)	143034	20.0000	20.0	
* 91	1,4-Dichlorobenzene-D4	152	15.379	15.374	(1.000)	332322	50.0000		
92	1,4-Dichlorobenzene	146	15.400	15.403	(1.001)	166975	20.0000	19.0	
93	N-Butylbenzene	91	15.836	15.832	(1.030)	224435	20.0000	20.1	
94	sec-Butylbenzene	105	14.942	14.938	(0.972)	262174	20.0000	19.6	
95	1,2-Dichlorobenzene	146	16.065	16.068	(1.045)	146172	20.0000	20.2	
96	1,2-Dibromo-3-Chloropropane	75	17.395	17.390	(1.131)	12338	20.0000	17.0	
97	1,3,5-Trichlorobenzene	180	17.474	17.469	(1.136)	92453	20.0000	20.0	
98	Hexachlorobutadiene	225	18.575	18.578	(1.208)	32658	20.0000	17.0	
99	1,2,4-Trichlorobenzene	180	18.596	18.592	(1.209)	84401	20.0000	17.8	
100	1,2,3-Trimethylbenzene	105	15.450	15.453	(1.005)	265430	20.0000	20.7	
101	Naphthalene	128	19.175	19.171	(1.247)	214288	20.0000	17.0	
102	1,2,3-Trichlorobenzene	180	19.511	19.507	(1.269)	75351	20.0000	17.7	
103	Methyl Acetate	43	4.846	4.842	(0.611)	39441	20.0000	18.4	
104	Methylcyclohexane	83	8.536	8.539	(1.077)	78229	20.0000	19.2	


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Client ID: Initial Calibration
Sample Info: WG144515-3
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Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D061114.b\D8861.D
Y (x10^6)
Min
-Chloromethane (2.237)
-Vinyl Chloride (2.337)
-Bromomethane (2.716)
-Chloroethane (2.873)
-Trichlorofluoromethane (3.052)
-Diethyl Ether (3.438)
-1,1-Dichloroethene (3.710)+
-Iodomethane (3.896)
-Acrolein (4.175)
-Allyl Chloride (4.389)
-Methylene Chloride (4.554)+
-trans-1,2-Dichloroethene (4.818)+
-Methyl tert-butyl ether (5.018)
-Tertiary-butyl alcohol (5.190)
-Acetonitrile (5.383)
-Di-isopropyl ether (5.676)
-Acrylonitrile (5.891)
-Ethyl tertiary-butyl ethe (6.248)+
-cis-1,2-Dichloroethene (6.634)
-2,2-Dichloropropane (6.792)
-Bromochloromethane (6.920)+
-Chloroform (7.035)
-Carbon Tetrachloride (7.214)+
-1,1-Dichloropropene (7.478)+
-Propionitrile (7.800)+
-Pentafluorobenzene (7.921)+
-Isobutyl Alcohol (8.122)+
-Trichloroethene (8.543)+
-1,4-Difluorobenzene (8.586)
-Methyl Methacrylate (9.459)+
-Toluene-D8 (10.217)
-4-methyl-2-pentanone (10.717)+
-Ethyl Methacrylate (10.946)+
-Dibromochloromethane (11.153)
-1,2-Dibromoethane (11.432)
-2-Hexanone (11.725)
-1,1,1,2-Tetrachloroethane (12.176)
-m+p-Xylenes (12.326)
Chlorobenzene-D5 (12.076)+
-o-Xylene (12.894)
-Styrene (12.962)+
-Isopropylbenzene (13.320)
-P-Bromofluorobenzene (13.706)
-1,1,2,2-Tetrachloroethane (13.906)
-2-Chlorotoluene (14.129)
1,3,5-Trimethylbenzene (14.192)+
-4-Chlorotoluene (14.371)
-tert-Butylbenzene (14.671)+
1,2,4-Trimethylbenzene (14.778)
-sec-Butylbenzene (14.943)
-1,3-Dichlorobenzene (15.265)
1,4-Dichlorobenzene-D4 (15.379)+
-1,2-Dichloroethylene (tot (15.780)
-n-Butylbenzene (15.837)
-1,2-Dichlorobenzene (16.065)
-1,2-Dibromo-3-Chloropropa (17.403)
1,2,4-Trichlorobenzene (17.474)
-Hexachlorobutadiene (18.589)+
-Naphthalene (19.176)
-1,2,3-Trichlorobenzene (19.512)
-Xylenes (total) (21.080)

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8862.D
Report Date: 12-Jun-2014 09:00

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D061114.b\D8862.D
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Inj Date : 11-JUN-2014 14:35 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG144515-2
Misc Info : WG143849,WG143849-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D061114.b\D826A48.m
Meth Date : 12-Jun-2014 08:50 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 14:35 Cal File: D8862.D
Als bottle: 2 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

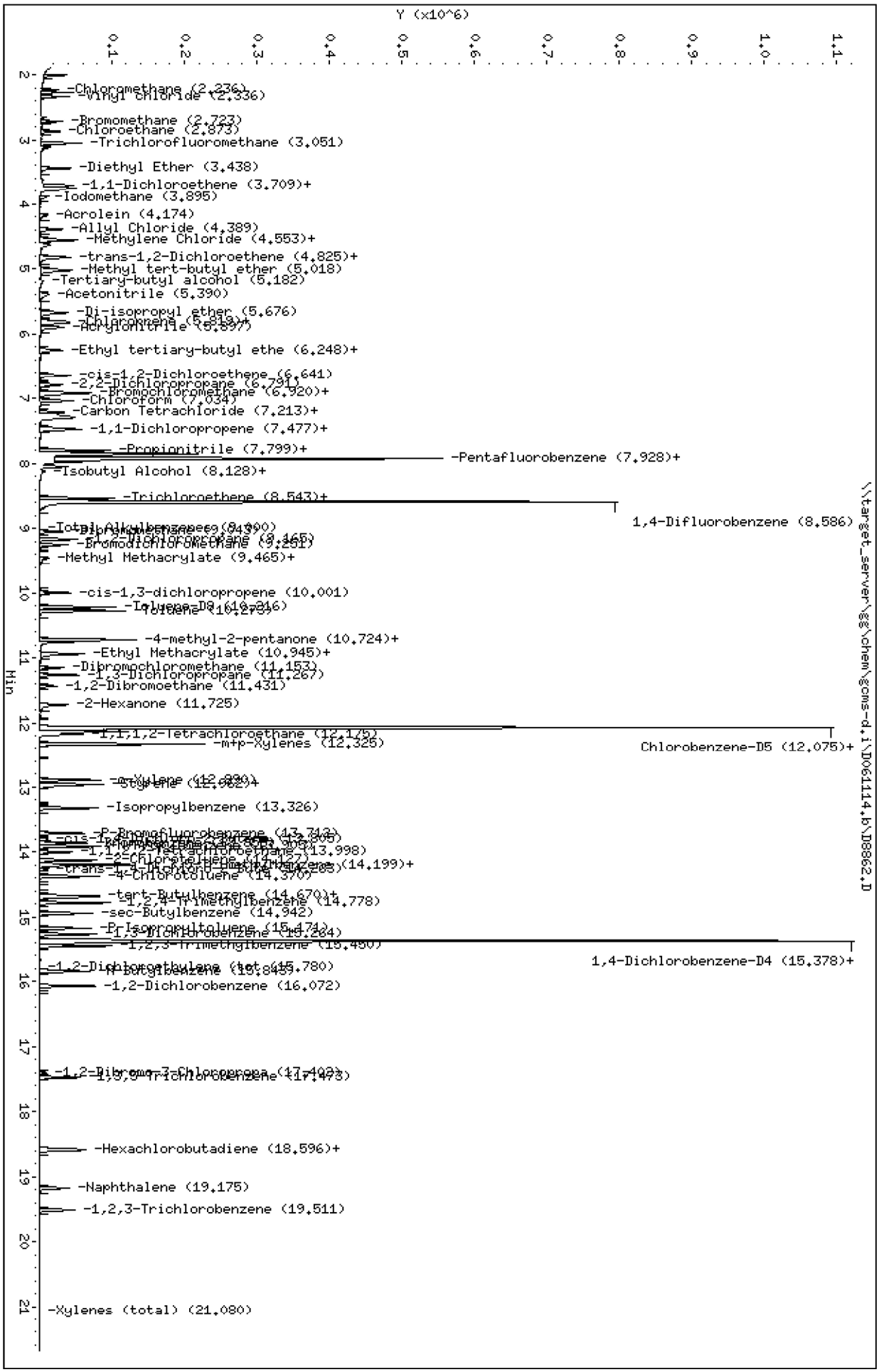
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.007	2.011	(0.253)	22095	5.00000	5.9	
2	Chloromethane	50	2.236	2.233	(0.282)	29208	5.00000	4.4	
3	Vinyl chloride	62	2.336	2.333	(0.295)	28890	5.00000	6.1	
4	Bromomethane	94	2.715	2.712	(0.343)	15534	5.00000	5.6	
5	Chloroethane	64	2.872	2.869	(0.362)	21970	5.00000	5.3	
6	Trichlorofluoromethane	101	3.051	3.048	(0.385)	41148	5.00000	5.8	
7	Diethyl Ether	59	3.444	3.441	(0.435)	15232	5.00000	5.5	
8	Tertiary-butyl alcohol	59	5.182	5.186	(0.654)	4486	25.0000	25.4	
9	1,1-Dichloroethene	96	3.709	3.705	(0.468)	16903	5.00000	5.4	
10	Carbon Disulfide	76	3.745	3.741	(0.472)	56523	5.00000	5.5	
11	Freon-113	151	3.773	3.770	(0.476)	9277	5.00000	5.4	
12	Iodomethane	142	3.895	3.891	(0.491)	10015	5.00000	5.4	
13	Acrolein	56	4.174	4.170	(0.527)	10886	25.0000	21.4	
14	Methylene Chloride	84	4.552	4.549	(0.574)	28391	5.00000	6.1	
15	Acetone	43	4.631	4.621	(0.584)	23908	25.0000	27.0	
16	Isobutyl Alcohol	43	8.128	8.117	(1.025)	4791	100.000	68.5	
17	trans-1,2-Dichloroethene	96	4.817	4.821	(0.608)	19498	5.00000	5.5	
18	Allyl Chloride	41	4.388	4.392	(0.554)	21240	5.00000	5.3	
19	Methyl tert-butyl ether	73	5.017	5.014	(0.633)	50372	10.0000	12.0	
20	Acetonitrile	39	5.396	5.379	(0.681)	3563	50.0000	52.8	
21	Di-isopropyl ether	45	5.675	5.672	(0.716)	40114	5.00000	4.7	
22	Chloroprene	53	5.797	5.800	(0.731)	19964	5.00000	5.1	
23	Propionitrile	54	7.820	7.824	(0.986)	25571	50.0000	51.7	
24	Methacrylonitrile	41	7.849	7.860	(0.990)	104078	50.0000	58.9	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8862.D
Report Date: 12-Jun-2014 09:00

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.825	5.829	(0.735)	36614	5.00000	5.7	
	26	Acrylonitrile	52	5.897	5.893	(0.744)	26346	25.0000	26.6	
	27	Ethyl tertiary-butyl ether	59	6.247	6.237	(0.788)	15910	5.00000	5.5	
	28	Vinyl Acetate	43	6.247	6.244	(0.728)	21880	5.00000	5.6	
	29	cis-1,2-Dichloroethene	96	6.640	6.637	(0.838)	19818	5.00000	5.2	
	31	Methyl Methacrylate	41	9.465	9.454	(1.102)	6854	5.00000	6.4	
	32	2,2-Dichloropropane	77	6.790	6.787	(0.857)	16208	5.00000	5.9	
	33	Bromochloromethane	128	6.919	6.916	(0.873)	9521	5.00000	5.4	
	34	Chloroform	83	7.034	7.037	(0.887)	36378	5.00000	5.8	
	35	Carbon Tetrachloride	117	7.212	7.216	(0.840)	20628	5.00000	5.0	
	36	Tetrahydrofuran	42	7.248	7.238	(0.914)	16824	25.0000	30.6	
$	37	Dibromofluoromethane	113	7.277	7.281	(0.918)	18717	5.00000	5.6	
	38	1,1,1-Trichloroethane	97	7.305	7.302	(0.922)	27066	5.00000	5.4	
	39	1,1-Dichloropropene	75	7.477	7.474	(0.871)	24119	5.00000	5.2	
	40	2-Butanone	43	7.455	7.445	(0.940)	32414	25.0000	30.5	
	41	Benzene	78	7.799	7.795	(0.908)	82073	5.00000	5.4	
*	42	Pentafluorobenzene	168	7.927	7.931	(1.000)	353268	50.0000		
	43	Cyclohexane	56	6.926	6.930	(0.874)	23904	5.00000	5.2	
	44	Ethyl Methacrylate	69	10.959	10.956	(1.276)	10532	5.00000	3.9	
$	45	1,2-Dichloroethane-D4	65	7.963	7.967	(1.004)	23347	5.00000	5.9	
	46	Tertiary-amyl methyl ether	73	7.970	7.974	(1.005)	12340	5.00000	5.9	
	47	1,2-Dichloroethane	62	8.049	8.053	(0.938)	26066	5.00000	5.6	
	48	Trichloroethene	95	8.542	8.545	(0.995)	19920	5.00000	5.6	
*	49	1,4-Difluorobenzene	114	8.585	8.589	(1.000)	583058	50.0000		
	50	Dibromomethane	93	9.043	9.047	(1.053)	11954	5.00000	5.2	
	51	1,2-Dichloropropane	63	9.171	9.168	(1.068)	18681	5.00000	5.4	
	52	Bromodichloromethane	83	9.250	9.254	(1.077)	23139	5.00000	5.1	
	53	cis-1,3-dichloropropene	75	10.001	9.998	(1.165)	23123	5.00000	6.0	
	54	1,4-Dioxane	88	9.500	9.497	(1.107)	2379	100.000	105	
$	55	Toluene-D8	98	10.215	10.219	(1.190)	62966	5.00000	5.4	
	57	Toluene	92	10.280	10.276	(1.197)	47932	5.00000	5.3	
	58	4-methyl-2-pentanone	43	10.716	10.713	(1.248)	52525	25.0000	19.8	
	59	Tetrachloroethene	164	10.723	10.727	(0.888)	13375	5.00000	5.0	
	60	trans-1,3-Dichloropropene	75	10.759	10.755	(1.253)	17442	5.00000	6.6	
	61	1,1,2-Trichloroethane	83	10.938	10.941	(1.274)	14777	5.00000	5.2	
	62	Dibromochloromethane	129	11.152	11.156	(0.924)	16376	5.00000	5.1	
	63	1,3-Dichloropropane	76	11.266	11.263	(0.933)	30329	5.00000	5.6	
	64	1,2-Dibromoethane	107	11.431	11.435	(1.331)	15751	5.00000	4.8	
	65	2-Hexanone	43	11.724	11.721	(0.971)	33868	25.0000	14.1	
*	66	Chlorobenzene-D5	117	12.074	12.071	(1.000)	523221	50.0000		
	67	Chlorobenzene	112	12.096	12.100	(1.002)	52298	5.00000	5.7	
	152	1-Chlorohexane	91	12.074	12.078	(1.000)	21768	5.00000	5.1	
	68	Ethylbenzene	106	12.139	12.143	(1.005)	26537	5.00000	5.4	
	69	1,1,1,2-Tetrachloroethane	131	12.175	12.178	(1.008)	15114	5.00000	5.1	
	71	m+p-Xylenes	106	12.325	12.329	(1.021)	59122	10.0000	10.3	
	72	o-Xylene	106	12.890	12.893	(1.068)	22814	5.00000	5.1	
	73	Styrene	104	12.961	12.958	(1.073)	42949	5.00000	4.9	
	74	Bromoform	173	12.990	12.986	(1.076)	9544	5.00000	7.0	
	75	Isopropylbenzene	105	13.326	13.322	(0.867)	55437	5.00000	5.0	
$	76	P-Bromofluorobenzene	95	13.712	13.708	(1.597)	22009	5.00000	5.0	
	77	cis-1,4-Dichloro-2-Butene	53	13.805	13.801	(0.898)	3166	5.00000	6.8	
	78	trans-1,4-Dichloro-2-Butene	53	14.255	14.259	(0.927)	2930	5.00000	6.4	
	79	Bromobenzene	156	13.855	13.859	(0.901)	18736	5.00000	5.2	
	80	N-Propylbenzene	91	13.905	13.909	(0.904)	71488	5.00000	3.2	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8862.D
Report Date: 12-Jun-2014 09:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
81	1,1,2,2-Tetrachloroethane	83	13.998	13.994	(0.910)	23434	5.00000	5.4	
82	1,3,5-Trimethylbenzene	105	14.198	14.202	(0.923)	53690	5.00000	4.1	
83	2-Chlorotoluene	91	14.127	14.123	(0.919)	47566	5.00000	5.3	
84	1,2,3-Trichloropropane	75	14.191	14.188	(0.923)	18770	5.00000	5.4	
85	4-Chlorotoluene	91	14.370	14.373	(0.934)	49180	5.00000	5.3	
86	tert-Butylbenzene	119	14.670	14.667	(0.954)	43292	5.00000	4.9	
87	Pentachloroethane	117	14.691	14.688	(0.955)	11115	5.00000	4.7	
88	1,2,4-Trimethylbenzene	105	14.777	14.774	(0.961)	55543	5.00000	3.6	
89	P-Isopropyltoluene	119	15.170	15.167	(0.987)	42734	5.00000	3.4	
90	1,3-Dichlorobenzene	146	15.263	15.260	(0.993)	33795	5.00000	5.2	
* 91	1,4-Dichlorobenzene-D4	152	15.378	15.374	(1.000)	299227	50.0000		
92	1,4-Dichlorobenzene	146	15.399	15.403	(1.001)	43013	5.00000	5.4	
93	N-Butylbenzene	91	15.843	15.832	(1.030)	42693	5.00000	2.5	
94	sec-Butylbenzene	105	14.942	14.938	(0.972)	55401	5.00000	3.6	
95	1,2-Dichlorobenzene	146	16.071	16.068	(1.045)	33970	5.00000	5.2	
96	1,2-Dibromo-3-Chloropropane	75	17.401	17.390	(1.132)	2743	5.00000	4.7	
97	1,3,5-Trichlorobenzene	180	17.473	17.469	(1.136)	19521	5.00000	4.7	
98	Hexachlorobutadiene	225	18.581	18.578	(1.208)	8827	5.00000	5.1	
99	1,2,4-Trichlorobenzene	180	18.602	18.592	(1.210)	18231	5.00000	4.0	
100	1,2,3-Trimethylbenzene	105	15.449	15.453	(1.005)	60208	5.00000	5.2	
101	Naphthalene	128	19.175	19.171	(1.247)	38184	5.00000	2.5	
102	1,2,3-Trichlorobenzene	180	19.511	19.507	(1.269)	17184	5.00000	3.2	
103	Methyl Acetate	43	4.853	4.842	(0.612)	8663	5.00000	4.4	
104	Methylcyclohexane	83	8.535	8.539	(1.077)	17300	5.00000	4.6	



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Client ID: Initial Calibration
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Purge Volume: 5.0
Column phase: RTX-VMS

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Operator: DJP
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Report Date: 12-Jun-2014 08:49

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D061114.b\D8863.D
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Inj Date : 11-JUN-2014 15:07 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG144515-1
Misc Info : WG143849,WG143849-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D061114.b\D826A48.m
Meth Date : 12-Jun-2014 08:49 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 15:07 Cal File: D8863.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

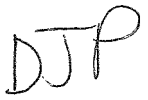
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.010	2.011	(0.254)	4178	1.00000	1.1	
2 Chloromethane	50	2.232	2.233	(0.282)	5583	1.00000	1.2(M)	M6
3 Vinyl chloride	62	2.332	2.333	(0.294)	4902	1.00000	1.1	
4 Bromomethane	94	2.718	2.712	(0.343)	3162	1.00000	1.2	
5 Chloroethane	64	2.875	2.869	(0.363)	4304	1.00000	1.3	
6 Trichlorofluoromethane	101	3.054	3.048	(0.385)	7451	1.00000	1.1	
7 Diethyl Ether	59	3.447	3.441	(0.435)	2831	1.00000	1.0	
9 1,1-Dichloroethene	96	3.704	3.705	(0.468)	3185	1.00000	1.0	
10 Carbon Disulfide	76	3.740	3.741	(0.472)	10864	1.00000	1.1	
11 Freon-113	151	3.776	3.770	(0.477)	1873	1.00000	1.1	
12 Iodomethane	142	3.890	3.891	(0.491)	1244	1.00000	0.54(aM)	M6
13 Acrolein	56	4.176	4.170	(0.527)	1999	5.00000	4.1(a)	
14 Methylene Chloride	84	4.548	4.549	(0.574)	8579	1.00000	1.8(aM)	M6
15 Acetone	43	4.634	4.621	(0.585)	3479	5.00000	4.0(a)	
16 Isobutyl Alcohol	43	8.123	8.117	(1.025)	549	20.0000	8.0(TaM)	M6
17 trans-1,2-Dichloroethene	96	4.827	4.821	(0.609)	3329	1.00000	0.97(a)	
18 Allyl Chloride	41	4.398	4.392	(0.555)	3530	1.00000	0.91(a)	
19 Methyl tert-butyl ether	73	5.020	5.014	(0.634)	7314	2.00000	1.2(M)	M6
21 Di-isopropyl ether	45	5.678	5.672	(0.717)	6291	1.00000	0.77(a)	
22 Chloroprene	53	5.807	5.800	(0.733)	3096	1.00000	0.82(a)	
23 Propionitrile	54	7.830	7.824	(0.988)	3961	10.0000	8.3(a)	
24 Methacrylonitrile	41	7.859	7.860	(0.992)	15577	10.0000	9.1(a)	
25 1,1-Dichloroethane	63	5.821	5.829	(0.735)	6607	1.00000	1.1	
26 Acrylonitrile	52	5.900	5.893	(0.745)	3965	5.00000	4.1(a)	

DJP
12:45 pm, Jul 15, 2014

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8863.D
Report Date: 12-Jun-2014 08:49

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	27	Ethyl tertiary-butyl ether	59	6.243	6.237	(0.788)	2271	1.00000	0.51(a)	
	28	Vinyl Acetate	43	6.257	6.244	(0.729)	3309	1.00000	0.60(aM)	M6
	29	cis-1,2-Dichloroethene	96	6.643	6.637	(0.838)	3522	1.00000	0.96(a)	
M	30	1,2-Dichloroethylene (total)	96				6851	1.00000	1.9(a)	
	31	Methyl Methacrylate	41	9.460	9.454	(1.102)	949	1.00000	0.48(aM)	M6
	32	2,2-Dichloropropane	77	6.800	6.787	(0.858)	2561	1.00000	0.76(a)	
	33	Bromochloromethane	128	6.915	6.916	(0.873)	1813	1.00000	1.0	
	34	Chloroform	83	7.036	7.037	(0.888)	6503	1.00000	1.1	
	35	Carbon Tetrachloride	117	7.215	7.216	(0.840)	3508	1.00000	0.87(a)	
	36	Tetrahydrofuran	42	7.251	7.238	(0.915)	1764	5.00000	2.5(a)	
$	37	Dibromofluoromethane	113	7.280	7.281	(0.919)	3175	1.00000	0.98(a)	
	38	1,1,1-Trichloroethane	97	7.308	7.302	(0.922)	4119	1.00000	0.85(a)	
	39	1,1-Dichloropropene	75	7.480	7.474	(0.871)	3733	1.00000	0.82(a)	
	40	2-Butanone	43	7.458	7.445	(0.941)	3773	5.00000	3.0(a)	
	41	Benzene	78	7.801	7.795	(0.908)	13851	1.00000	0.93(a)	
*	42	Pentafluorobenzene	168	7.923	7.931	(1.000)	342033	50.0000		
	43	Cyclohexane	56	6.929	6.930	(0.875)	3738	1.00000	0.84(a)	
	44	Ethyl Methacrylate	69	10.955	10.956	(1.276)	1265	1.00000	0.37(a)	
$	45	1,2-Dichloroethane-D4	65	7.966	7.967	(1.005)	4450	1.00000	1.2	
	46	Tertiary-amyl methyl ether	73	7.973	7.974	(1.006)	1727	1.00000	0.48(aM)	M6
	47	1,2-Dichloroethane	62	8.052	8.053	(0.938)	4741	1.00000	1.0	
	48	Trichloroethene	95	8.545	8.545	(0.995)	3079	1.00000	0.87(a)	
*	49	1,4-Difluorobenzene	114	8.588	8.589	(1.000)	575833	50.0000		
	50	Dibromomethane	93	9.046	9.047	(1.053)	2208	1.00000	0.97(a)	
	51	1,2-Dichloropropane	63	9.167	9.168	(1.067)	3044	1.00000	0.89(aM)	M6
	52	Bromodichloromethane	83	9.253	9.254	(1.077)	3814	1.00000	0.85(aM)	M6
	53	cis-1,3-dichloropropene	75	10.004	9.998	(1.165)	3474	1.00000	0.67(a)	
$	55	Toluene-D8	98	10.218	10.219	(1.190)	9096	1.00000	0.78(a)	
	57	Toluene	92	10.275	10.276	(1.196)	6683	1.00000	0.75(a)	
	58	4-methyl-2-pentanone	43	10.712	10.713	(1.247)	4912	5.00000	2.2(a)	
	59	Tetrachloroethene	164	10.726	10.727	(0.889)	2461	1.00000	0.95(a)	
	60	trans-1,3-Dichloropropene	75	10.754	10.755	(1.252)	2130	1.00000	0.53(a)	
	61	1,1,2-Trichloroethane	83	10.940	10.941	(1.274)	2346	1.00000	0.84(a)	
	62	Dibromochloromethane	129	11.148	11.156	(0.924)	2564	1.00000	0.83(a)	
	63	1,3-Dichloropropane	76	11.262	11.263	(0.933)	5051	1.00000	0.96(a)	
	64	1,2-Dibromoethane	107	11.434	11.435	(1.331)	2625	1.00000	0.82(aM)	M6
	65	2-Hexanone	43	11.727	11.721	(0.972)	3381	5.00000	2.3(aM)	M6
*	66	Chlorobenzene-D5	117	12.070	12.071	(1.000)	504732	50.0000		
	67	Chlorobenzene	112	12.099	12.100	(1.002)	9771	1.00000	1.1	
	152	1-Chlorohexane	91	12.077	12.078	(1.001)	4409	1.00000	1.1	
	68	Ethylbenzene	106	12.134	12.143	(1.005)	4379	1.00000	0.93(a)	
	69	1,1,1,2-Tetrachloroethane	131	12.177	12.178	(1.009)	2666	1.00000	0.93(a)	
M	70	Xylenes (total)	106				11809	5.00000	2.2(a)	
	71	m+p-Xylenes	106	12.328	12.329	(1.021)	8611	2.00000	1.6(a)	
	72	o-Xylene	106	12.892	12.893	(1.068)	3198	1.00000	0.67(a)	
	73	Styrene	104	12.964	12.958	(1.074)	5136	1.00000	0.59(a)	
	74	Bromoform	173	12.985	12.986	(1.076)	1478	1.00000	0.74(aM)	M6
	75	Isopropylbenzene	105	13.321	13.322	(0.866)	7507	1.00000	0.73(a)	
$	76	P-Bromofluorobenzene	95	13.715	13.708	(1.597)	3291	1.00000	0.76(a)	
	79	Bromobenzene	156	13.858	13.859	(0.901)	2562	1.00000	0.77(a)	
	80	N-Propylbenzene	91	13.908	13.909	(0.904)	8941	1.00000	0.73(aM)	M6
	81	1,1,2,2-Tetrachloroethane	83	14.001	13.994	(0.910)	3893	1.00000	0.98(aM)	M6
	82	1,3,5-Trimethylbenzene	105	14.194	14.202	(0.923)	6033	1.00000	0.62(aM)	M6
	83	2-Chlorotoluene	91	14.129	14.123	(0.919)	6335	1.00000	0.77(a)	



12:45 pm, Jul 15, 2014

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8863.D
Report Date: 12-Jun-2014 08:49

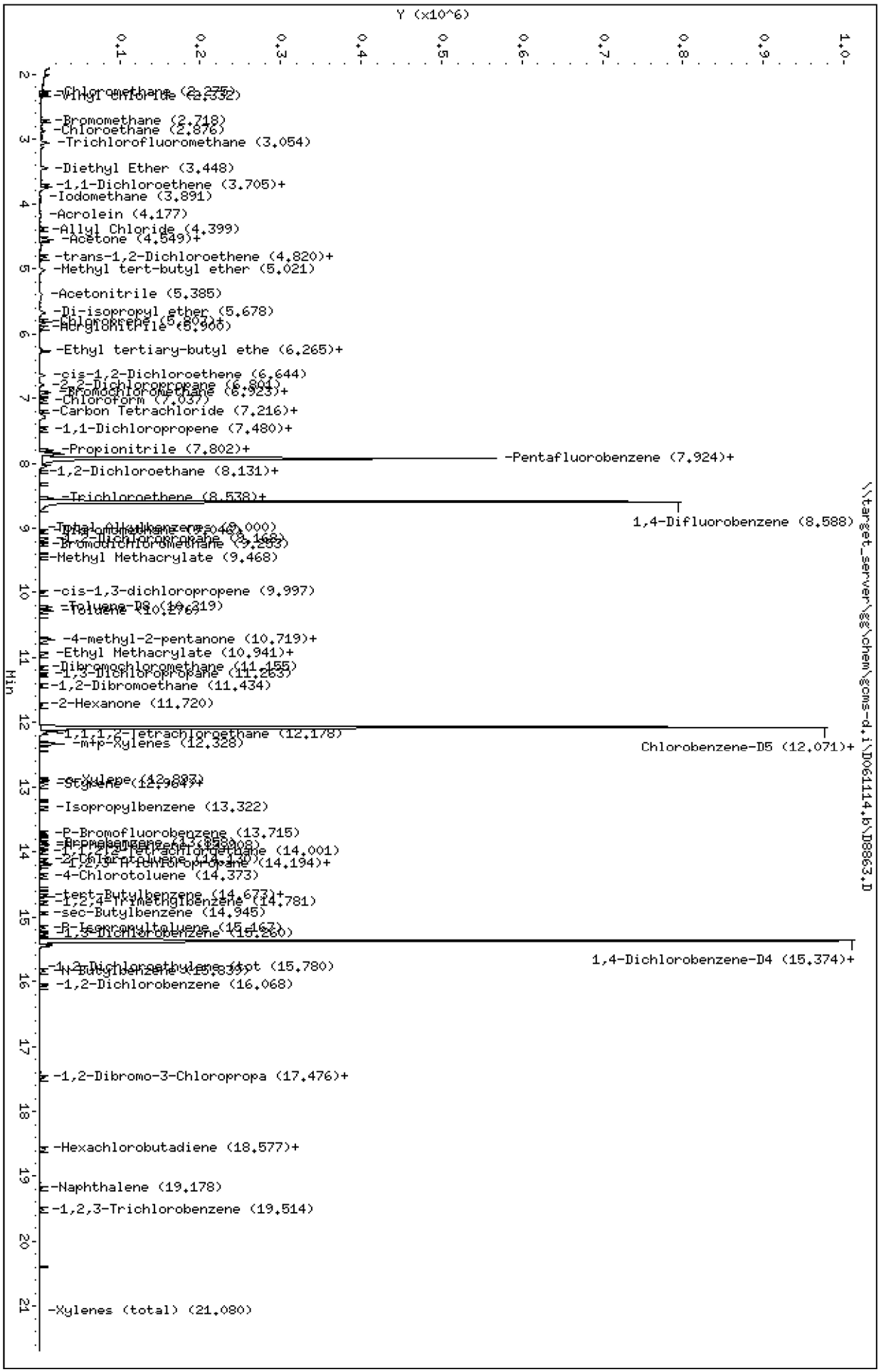
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
84	1,2,3-Trichloropropane	75	14.187	14.188	(0.922)	3094	1.00000	0.97(a)	
85	4-Chlorotoluene	91	14.372	14.373	(0.934)	6595	1.00000	0.77(a)	
86	tert-Butylbenzene	119	14.673	14.667	(0.954)	5519	1.00000	0.65(a)	
88	1,2,4-Trimethylbenzene	105	14.773	14.774	(0.960)	5800	1.00000	0.58(aM)	M6
89	P-Isopropyltoluene	119	15.166	15.167	(0.986)	4990	1.00000	0.58(aM)	M6
90	1,3-Dichlorobenzene	146	15.266	15.260	(0.993)	4853	1.00000	0.82(a)	
* 91	1,4-Dichlorobenzene-D4	152	15.381	15.374	(1.000)	275709	50.0000		
92	1,4-Dichlorobenzene	146	15.402	15.403	(1.001)	7776	1.00000	1.1	
93	N-Butylbenzene	91	15.838	15.832	(1.030)	5205	1.00000	0.63(aM)	M6
94	sec-Butylbenzene	105	14.937	14.938	(0.971)	6591	1.00000	0.65(aM)	M6
95	1,2-Dichlorobenzene	146	16.067	16.068	(1.045)	5031	1.00000	0.84(a)	
97	1,3,5-Trichlorobenzene	180	17.476	17.469	(1.136)	3152	1.00000	0.82(a)	
98	Hexachlorobutadiene	225	18.577	18.578	(1.208)	1860	1.00000	1.2	
99	1,2,4-Trichlorobenzene	180	18.598	18.592	(1.209)	2504	1.00000	0.70(aM)	M6
100	1,2,3-Trimethylbenzene	105	15.452	15.453	(1.005)	8807	1.00000	0.83(a)	
101	Naphthalene	128	19.177	19.171	(1.247)	4134	1.00000	0.48(aM)	M6
102	1,2,3-Trichlorobenzene	180	19.513	19.507	(1.269)	2363	1.00000	0.74(aM)	M6
103	Methyl Acetate	43	4.856	4.842	(0.613)	1686	1.00000	0.88(aM)	M6
104	Methylcyclohexane	83	8.538	8.539	(1.078)	3128	1.00000	0.86(a)	
M 153	Total Alkylbenzenes	100				43079	1.00000	4.4(a)	

DJP

12:45 pm, Jul 15, 2014

QC Flag Legend

T - Target compound detected outside RT window.
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.


Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8863.D
Date : 11-JUN-2014 15:07
Client ID: Initial Calibration
Sample Info: WG144515-1
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D061114.b\D8863.D
Y (x10^6)
Min
-Chloromethane (2.275)
-Vinyl chloride (2.332)
-Bromomethane (2.718)
-Chloroethane (2.876)
-Trichlorofluoromethane (3.054)
-Diethyl Ether (3.448)
-1,1-Dichloroethene (3.705)+
-Iodomethane (3.891)
-Acrolein (4.177)
-Allyl Chloride (4.399)
-Acetone (4.549)+
-trans-1,2-Dichloroethene (4.820)+
-Methyl tert-butyl ether (5.021)
-Acetonitrile (5.385)
-Di-isopropyl ether (5.678)
-Acrylonitrile (6.900)
-Ethyl tertiary-butyl ethe (6.265)+
-cis-1,2-Dichloroethene (6.644)
-2,2-Dichloropropane (6.801)
-Chloroform (7.037)
-Carbon Tetrachloride (7.216)+
-1,1-Dichloropropene (7.480)+
-Propionitrile (7.802)+
-Pentafluorobenzene (7.924)+
-1,2-Dichloroethane (8.131)+
-Trichloroethene (8.538)+
1,4-Difluorobenzene (8.588)
-Methyl Methacrylate (9.468)
-cis-1,3-dichloropropene (9.997)
-4-methyl-2-pentanone (10.719)+
-Ethyl Methacrylate (10.941)+
-Dibromochloromethane (11.155)
-1,3-Dichloropropane (11.263)
-1,2-Dibromoethane (11.434)
-2-Hexanone (11.720)
-1,1,1,2-Tetrachloroethane (12.178)
-m+p-Xylenes (12.328)
Chlorobenzene-D5 (12.071)+
-Isopropylbenzene (13.322)
-P-Bromofluorobenzene (13.715)
-1,1,2,2-Tetrachloroethane (14.001)
-4-Chlorotoluene (14.373)
-tert-Butylbenzene (14.677)+
-1,2,4-Trimethylbenzene (14.781)
-sec-Butylbenzene (14.945)
-P-Isopropyltoluene (15.167)
1,4-Dichlorobenzene-D4 (15.374)+
-n-Butylbenzene (15.839)
-1,2-Dichlorobenzene (16.068)
-1,2-Dibromo-3-Chloropropa (17.476)+
-Hexachlorobutadiene (18.577)+
-Naphthalene (19.178)
-1,2,3-Trichlorobenzene (19.514)
-Xylenes (total) (21.080)

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8865.D
Report Date: 12-Jun-2014 09:00

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D061114.b\D8865.D
Lab Smp Id: WG144515-6 Client Smp ID: Initial Calibration
Inj Date : 11-JUN-2014 16:13 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG144515-6
Misc Info : WG143849,WG143849-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D061114.b\D826A48.m
Meth Date : 12-Jun-2014 08:50 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 16:13 Cal File: D8865.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.008	2.011	(0.253)	811017	200.000	172	
2	Chloromethane	50	2.229	2.233	(0.281)	893361	200.000	195	
3	Vinyl chloride	62	2.330	2.333	(0.294)	1021708	200.000	173	
4	Bromomethane	94	2.716	2.712	(0.343)	680080	200.000	194	
5	Chloroethane	64	2.866	2.869	(0.362)	570418	200.000	201(A)	
6	Trichlorofluoromethane	101	3.045	3.048	(0.384)	1814021	200.000	204(A)	
7	Diethyl Ether	59	3.445	3.441	(0.435)	677737	200.000	194	
8	Tertiary-butyl alcohol	59	5.197	5.186	(0.656)	259139	1000.00	1040(A)	
9	1,1-Dichloroethene	96	3.702	3.705	(0.467)	750879	200.000	192	
10	Carbon Disulfide	76	3.738	3.741	(0.472)	2481054	200.000	192	
11	Freon-113	151	3.767	3.770	(0.475)	417420	200.000	193	
12	Iodomethane	142	3.895	3.891	(0.491)	751794	200.000	200(A)	
13	Acrolein	56	4.167	4.170	(0.526)	747595	1000.00	1170(A)	
14	Methylene Chloride	84	4.553	4.549	(0.574)	924716	200.000	201(A)	
15	Acetone	43	4.625	4.621	(0.583)	1191874	1000.00	1070(A)	
16	Isobutyl Alcohol	43	8.128	8.117	(1.025)	592544	4000.00	5970(A)	
17	trans-1,2-Dichloroethene	96	4.818	4.821	(0.608)	885467	200.000	199	
18	Allyl Chloride	41	4.389	4.392	(0.554)	1020784	200.000	204(A)	
19	Methyl tert-butyl ether	73	5.011	5.014	(0.632)	3861423	400.000	404(A)	
20	Acetonitrile	39	5.383	5.379	(0.679)	218974	2000.00	2020(A)	
21	Di-isopropyl ether	45	5.676	5.672	(0.716)	2380149	200.000	224(A)	
22	Chloroprene	53	5.797	5.800	(0.731)	1078139	200.000	219(A)	
23	Propionitrile	54	7.828	7.824	(0.987)	1366287	2000.00	2200(A)	
24	Methacrylonitrile	41	7.864	7.860	(0.992)	3888797	2000.00	1760	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8865.D
Report Date: 12-Jun-2014 09:00

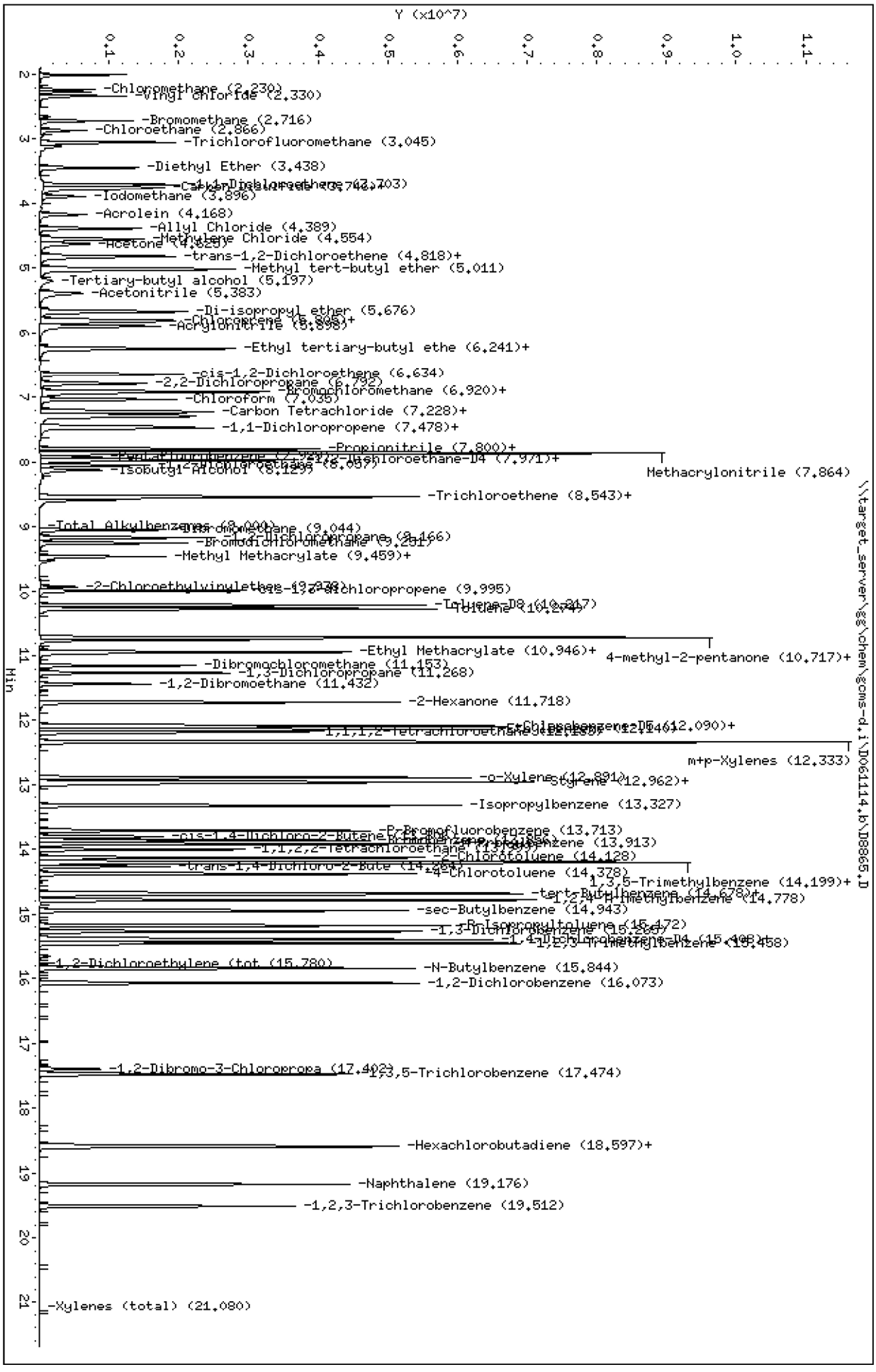
		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.826	5.829	(0.735)	1508735	200.000	188	
	26 Acrylonitrile	52	5.897	5.893	(0.744)	1337434	1000.00	1080(A)	
	27 Ethyl tertiary-butyl ether	59	6.241	6.237	(0.787)	1800859	200.000	200	
	28 Vinyl Acetate	43	6.241	6.244	(0.727)	1724363	200.000	203(A)	
	29 cis-1,2-Dichloroethene	96	6.634	6.637	(0.837)	977966	200.000	206(A)	
	31 Methyl Methacrylate	41	9.458	9.454	(1.102)	683695	200.000	204(A)	
	32 2,2-Dichloropropane	77	6.791	6.787	(0.857)	1035676	200.000	202(A)	
	33 Bromochloromethane	128	6.913	6.916	(0.872)	429838	200.000	193	
	34 Chloroform	83	7.034	7.037	(0.887)	1484744	200.000	188	
	35 Carbon Tetrachloride	117	7.213	7.216	(0.840)	1089868	200.000	218(A)	
	36 Tetrahydrofuran	42	7.234	7.238	(0.913)	1131752	1000.00	1020(A)	
$	37 Dibromofluoromethane	113	7.277	7.281	(0.918)	869480	200.000	208(A)	
	38 1,1,1-Trichloroethane	97	7.306	7.302	(0.922)	1311784	200.000	210(A)	
	39 1,1-Dichloropropene	75	7.478	7.474	(0.871)	1183333	200.000	210(A)	
	40 2-Butanone	43	7.449	7.445	(0.940)	1887262	1000.00	1020(A)	
	41 Benzene	78	7.799	7.795	(0.908)	3654540	200.000	198	
*	42 Pentafluorobenzene	168	7.928	7.931	(1.000)	443009	50.0000		
	43 Cyclohexane	56	6.927	6.930	(0.874)	1212202	200.000	211(A)	
	44 Ethyl Methacrylate	69	10.953	10.956	(1.276)	1285985	200.000	200(A)	
$	45 1,2-Dichloroethane-D4	65	7.964	7.967	(1.004)	935763	200.000	188	
	46 Tertiary-amyl methyl ether	73	7.971	7.974	(1.005)	1612251	200.000	200	
	47 1,2-Dichloroethane	62	8.057	8.053	(0.938)	1087117	200.000	191	
	48 Trichloroethene	95	8.543	8.545	(0.995)	962703	200.000	220(A)	
*	49 1,4-Difluorobenzene	114	8.586	8.589	(1.000)	713529	50.0000		
	50 Dibromomethane	93	9.043	9.047	(1.053)	603049	200.000	213(A)	
	51 1,2-Dichloropropane	63	9.165	9.168	(1.067)	881178	200.000	208(A)	
	52 Bromodichloromethane	83	9.251	9.254	(1.077)	1219369	200.000	219(A)	
	53 cis-1,3-dichloropropene	75	9.994	9.998	(1.164)	1569902	200.000	203(A)	
	54 1,4-Dioxane	88	9.494	9.497	(1.106)	161312	4000.00	4010(A)	
$	55 Toluene-D8	98	10.216	10.219	(1.190)	3062825	200.000	213(A)	
	56 2-Chloroethylvinylether	63	9.937	9.933	(1.157)	209093	200.000	200	
	57 Toluene	92	10.273	10.276	(1.197)	2447560	200.000	222(A)	
	58 4-methyl-2-pentanone	43	10.717	10.713	(1.248)	3226455	1000.00	1000(A)	
	59 Tetrachloroethene	164	10.724	10.727	(0.888)	925821	200.000	209(A)	
	60 trans-1,3-Dichloropropene	75	10.760	10.755	(1.253)	1316408	200.000	204(A)	
	61 1,1,2-Trichloroethane	83	10.938	10.941	(1.274)	774953	200.000	224(A)	
	62 Dibromochloromethane	129	11.153	11.156	(0.924)	1065635	200.000	203(A)	
	63 1,3-Dichloropropane	76	11.267	11.263	(0.933)	1585197	200.000	176	
	64 1,2-Dibromoethane	107	11.432	11.435	(1.331)	940872	200.000	237(A)	
	65 2-Hexanone	43	11.718	11.721	(0.970)	2688605	1000.00	989	
*	66 Chlorobenzene-D5	117	12.075	12.071	(1.000)	860853	50.0000		
	67 Chlorobenzene	112	12.097	12.100	(1.002)	2650229	200.000	177	
	152 1-Chlorohexane	91	12.082	12.078	(1.001)	1385458	200.000	196	
	68 Ethylbenzene	106	12.139	12.143	(1.005)	1593060	200.000	198	
	69 1,1,1,2-Tetrachloroethane	131	12.182	12.178	(1.009)	998665	200.000	204(A)	
	71 m+p-Xylenes	106	12.333	12.329	(1.021)	3975204	400.000	420(A)	
	72 o-Xylene	106	12.890	12.893	(1.068)	1886975	200.000	201(A)	
	73 Styrene	104	12.962	12.958	(1.073)	3419911	200.000	201(A)	
	74 Bromoform	173	12.990	12.986	(1.076)	845161	200.000	204(A)	
	75 Isopropylbenzene	105	13.326	13.322	(0.866)	4049239	200.000	204(A)	
$	76 P-Bromofluorobenzene	95	13.713	13.708	(1.597)	1587556	200.000	296(A)	
	77 cis-1,4-Dichloro-2-Butene	53	13.805	13.801	(0.897)	361819	200.000	203(A)	
	78 trans-1,4-Dichloro-2-Butene	53	14.263	14.259	(0.927)	347192	200.000	203(A)	
	79 Bromobenzene	156	13.856	13.859	(0.901)	1397390	200.000	217(A)	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8865.D
Report Date: 12-Jun-2014 09:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	13.913	13.909	(0.904)	4514191	200.000	198	
81	1,1,2,2-Tetrachloroethane	83	13.999	13.994	(0.910)	1468632	200.000	190	
82	1,3,5-Trimethylbenzene	105	14.206	14.202	(0.923)	3951273	200.000	199	
83	2-Chlorotoluene	91	14.127	14.123	(0.918)	3186763	200.000	201(A)	
84	1,2,3-Trichloropropane	75	14.192	14.188	(0.922)	1184051	200.000	193	
85	4-Chlorotoluene	91	14.377	14.373	(0.934)	3295602	200.000	200	
86	tert-Butylbenzene	119	14.671	14.667	(0.954)	3748309	200.000	201(A)	
87	Pentachloroethane	117	14.692	14.688	(0.955)	997472	200.000	227(A)	
88	1,2,4-Trimethylbenzene	105	14.778	14.774	(0.961)	3968625	200.000	198	
89	P-Isopropyltoluene	119	15.171	15.167	(0.986)	3574491	200.000	198	
90	1,3-Dichlorobenzene	146	15.264	15.260	(0.992)	2361971	200.000	206(A)	
* 91	1,4-Dichlorobenzene-D4	152	15.386	15.374	(1.000)	532900	50.0000		
92	1,4-Dichlorobenzene	146	15.407	15.403	(1.001)	2694857	200.000	191	
93	N-Butylbenzene	91	15.843	15.832	(1.030)	3207529	200.000	197	
94	sec-Butylbenzene	105	14.942	14.938	(0.971)	4006130	200.000	198	
95	1,2-Dichlorobenzene	146	16.072	16.068	(1.045)	2354569	200.000	202(A)	
96	1,2-Dibromo-3-Chloropropane	75	17.395	17.390	(1.131)	240653	200.000	200(A)	
97	1,3,5-Trichlorobenzene	180	17.473	17.469	(1.136)	1531714	200.000	207(A)	
98	Hexachlorobutadiene	225	18.582	18.578	(1.208)	551531	200.000	179	
99	1,2,4-Trichlorobenzene	180	18.603	18.592	(1.209)	1488828	200.000	199	
100	1,2,3-Trimethylbenzene	105	15.457	15.453	(1.005)	4006393	200.000	194	
101	Naphthalene	128	19.175	19.171	(1.246)	3767225	200.000	197	
102	1,2,3-Trichlorobenzene	180	19.511	19.507	(1.268)	1228550	200.000	197	
103	Methyl Acetate	43	4.846	4.842	(0.611)	570924	200.000	229(A)	
104	Methylcyclohexane	83	8.536	8.539	(1.077)	1140016	200.000	241(A)	

QC Flag Legend

A - Target compound detected but, quantitated amount
exceeded maximum amount.



Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8865.D
Date : 11-JUN-2014 16:13
Client ID: Initial Calibration
Sample Info: WG144515-6
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18

\\target_server\gg\chem\gcms-d.i\D061114.b\D8865.D

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8866.D
Report Date: 12-Jun-2014 09:00

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D061114.b\D8866.D
Lab Smp Id: WG144515-5 Client Smp ID: Initial Calibration
Inj Date : 11-JUN-2014 16:45 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG144515-5
Misc Info : WG143849,WG143849-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D061114.b\D826A48.m
Meth Date : 12-Jun-2014 08:50 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 16:45 Cal File: D8866.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

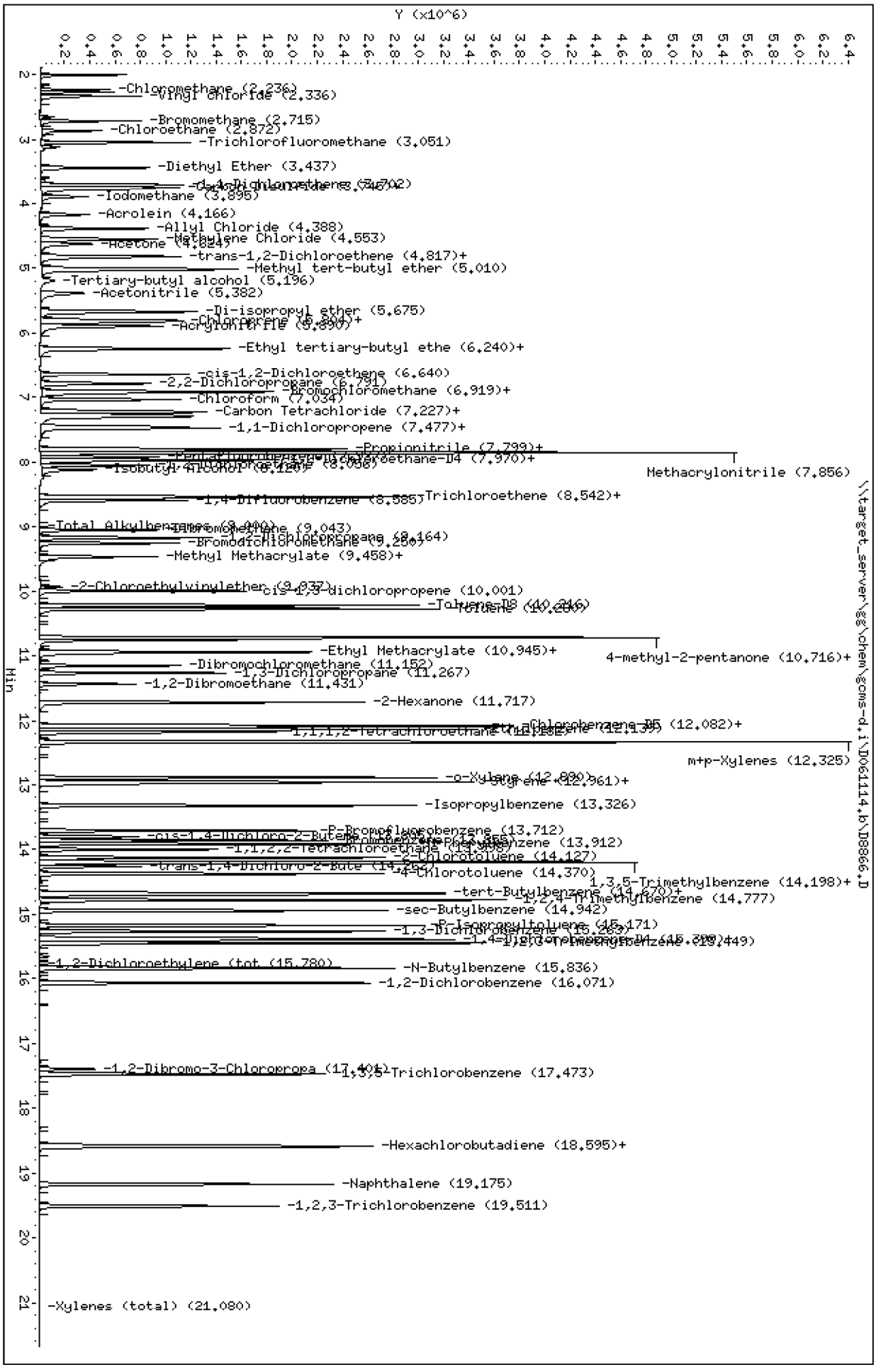
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.007	2.011	(0.253)	486121	100.000	83.0	
2	Chloromethane	50	2.235	2.233	(0.282)	607521	100.000	104	
3	Vinyl chloride	62	2.336	2.333	(0.295)	634713	100.000	86.5	
4	Bromomethane	94	2.715	2.712	(0.342)	406115	100.000	93.4	
5	Chloroethane	64	2.872	2.869	(0.362)	411881	100.000	97.2	
6	Trichlorofluoromethane	101	3.051	3.048	(0.385)	901440	100.000	81.5	
7	Diethyl Ether	59	3.444	3.441	(0.434)	389636	100.000	89.9	
8	Tertiary-butyl alcohol	59	5.196	5.186	(0.655)	172087	500.000	554	
9	1,1-Dichloroethene	96	3.701	3.705	(0.467)	443573	100.000	91.5	
10	Carbon Disulfide	76	3.744	3.741	(0.472)	1438929	100.000	89.4	
11	Freon-113	151	3.773	3.770	(0.476)	240803	100.000	89.6	
12	Iodomethane	142	3.894	3.891	(0.491)	454687	100.000	98.6	
13	Acrolein	56	4.166	4.170	(0.526)	420802	500.000	531	
14	Methylene Chloride	84	4.552	4.549	(0.574)	549992	100.000	95.2	
15	Acetone	43	4.624	4.621	(0.583)	663221	500.000	480	
16	Isobutyl Alcohol	43	8.120	8.117	(1.024)	292529	2000.00	2370	
17	trans-1,2-Dichloroethene	96	4.817	4.821	(0.608)	529167	100.000	95.6	
18	Allyl Chloride	41	4.388	4.392	(0.554)	612402	100.000	98.5	
19	Methyl tert-butyl ether	73	5.010	5.014	(0.632)	2226418	200.000	190	
20	Acetonitrile	39	5.382	5.379	(0.679)	107721	1000.00	800	
21	Di-isopropyl ether	45	5.675	5.672	(0.716)	1387068	100.000	105	
22	Chloroprene	53	5.796	5.800	(0.731)	608325	100.000	99.5	
23	Propionitrile	54	7.820	7.824	(0.986)	736234	1000.00	955	
24	Methacrylonitrile	41	7.855	7.860	(0.991)	2344112	1000.00	851	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8866.D
Report Date: 12-Jun-2014 09:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.825	5.829	(0.735)	880744	100.000	88.2	
	26 Acrylonitrile	52	5.889	5.893	(0.743)	739502	500.000	478	
	27 Ethyl tertiary-butyl ether	59	6.240	6.237	(0.787)	944454	100.000	100	
	28 Vinyl Acetate	43	6.240	6.244	(0.726)	947277	100.000	92.5	
	29 cis-1,2-Dichloroethene	96	6.640	6.637	(0.838)	572739	100.000	97.1	
	31 Methyl Methacrylate	41	9.457	9.454	(1.101)	359659	100.000	90.1	
	32 2,2-Dichloropropane	77	6.790	6.787	(0.857)	597887	100.000	95.0	
	33 Bromochloromethane	128	6.912	6.916	(0.872)	257856	100.000	93.1	
	34 Chloroform	83	7.033	7.037	(0.887)	872415	100.000	88.7	
	35 Carbon Tetrachloride	117	7.212	7.216	(0.839)	610907	100.000	99.7	
	36 Tetrahydrofuran	42	7.233	7.238	(0.913)	621857	500.000	456	
$	37 Dibromofluoromethane	113	7.276	7.281	(0.918)	475640	100.000	91.3	
	38 1,1,1-Trichloroethane	97	7.305	7.302	(0.922)	749132	100.000	96.5	
	39 1,1-Dichloropropene	75	7.477	7.474	(0.870)	675816	100.000	98.0	
	40 2-Butanone	43	7.448	7.445	(0.940)	1027748	500.000	451	
	41 Benzene	78	7.798	7.795	(0.908)	2140751	100.000	94.7	
*	42 Pentafluorobenzene	168	7.927	7.931	(1.000)	550708	50.0000		
	43 Cyclohexane	56	6.926	6.930	(0.874)	672544	100.000	94.3	
	44 Ethyl Methacrylate	69	10.959	10.956	(1.275)	647171	100.000	97.5	
$	45 1,2-Dichloroethane-D4	65	7.963	7.967	(1.004)	504924	100.000	81.6	
	46 Tertiary-amyl methyl ether	73	7.977	7.974	(1.006)	783164	100.000	101	
	47 1,2-Dichloroethane	62	8.056	8.053	(0.938)	621392	100.000	89.4	
	48 Trichloroethene	95	8.542	8.545	(0.994)	499734	100.000	93.1	
*	49 1,4-Difluorobenzene	114	8.592	8.589	(1.000)	873338	50.0000		
	50 Dibromomethane	93	9.042	9.047	(1.052)	329449	100.000	95.1	
	51 1,2-Dichloropropane	63	9.164	9.168	(1.067)	497640	100.000	96.0	
	52 Bromodichloromethane	83	9.250	9.254	(1.077)	675849	100.000	99.1	
	53 cis-1,3-dichloropropene	75	10.000	9.998	(1.164)	872571	100.000	93.4	
	54 1,4-Dioxane	88	9.493	9.497	(1.105)	104392	2000.00	1920	
$	55 Toluene-D8	98	10.215	10.219	(1.189)	1743208	100.000	99.0	
	56 2-Chloroethylvinylether	63	9.936	9.933	(1.156)	70840	100.000	103	
	57 Toluene	92	10.279	10.276	(1.196)	1354390	100.000	100	
	58 4-methyl-2-pentanone	43	10.716	10.713	(1.247)	1872987	500.000	476	
	59 Tetrachloroethene	164	10.723	10.727	(0.888)	441486	100.000	97.3	
	60 trans-1,3-Dichloropropene	75	10.758	10.755	(1.252)	696941	100.000	90.3	
	61 1,1,2-Trichloroethane	83	10.937	10.941	(1.273)	402867	100.000	95.3	
	62 Dibromochloromethane	129	11.152	11.156	(0.924)	541521	100.000	100	
	63 1,3-Dichloropropane	76	11.266	11.263	(0.933)	857484	100.000	92.9	
	64 1,2-Dibromoethane	107	11.431	11.435	(1.330)	488034	100.000	100	
	65 2-Hexanone	43	11.717	11.721	(0.970)	1403537	500.000	498	
*	66 Chlorobenzene-D5	117	12.074	12.071	(1.000)	883972	50.0000		
	67 Chlorobenzene	112	12.095	12.100	(1.002)	1365800	100.000	88.7	
	152 1-Chlorohexane	91	12.081	12.078	(1.001)	665058	100.000	91.8	
	68 Ethylbenzene	106	12.138	12.143	(1.005)	793637	100.000	96.2	
	69 1,1,1,2-Tetrachloroethane	131	12.181	12.178	(1.009)	496202	100.000	98.9	
	71 m+p-Xylenes	106	12.324	12.329	(1.021)	2001765	200.000	206	
	72 o-Xylene	106	12.889	12.893	(1.068)	915753	100.000	95.8	
	73 Styrene	104	12.961	12.958	(1.073)	1698997	100.000	97.5	
	74 Bromoform	173	12.989	12.986	(1.076)	379974	100.000	91.3	
	75 Isopropylbenzene	105	13.325	13.322	(0.867)	2093113	100.000	101	
$	76 P-Bromofluorobenzene	95	13.711	13.708	(1.596)	745323	100.000	113	
	77 cis-1,4-Dichloro-2-Butene	53	13.804	13.801	(0.898)	165245	100.000	91.4	
	78 trans-1,4-Dichloro-2-Butene	53	14.262	14.259	(0.927)	160557	100.000	92.2	
	79 Bromobenzene	156	13.854	13.859	(0.901)	652511	100.000	97.6	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8866.D
Report Date: 12-Jun-2014 09:00

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	13.912	13.909	(0.905)	2408148	100.000	99.7	
81	1,1,2,2-Tetrachloroethane	83	13.997	13.994	(0.910)	724407	100.000	90.3	
82	1,3,5-Trimethylbenzene	105	14.198	14.202	(0.923)	2053259	100.000	99.0	
83	2-Chlorotoluene	91	14.126	14.123	(0.919)	1618899	100.000	98.1	
84	1,2,3-Trichloropropane	75	14.190	14.188	(0.923)	569143	100.000	89.2	
85	4-Chlorotoluene	91	14.369	14.373	(0.934)	1686271	100.000	98.3	
86	tert-Butylbenzene	119	14.670	14.667	(0.954)	1845926	100.000	95.7	
87	Pentachloroethane	117	14.691	14.688	(0.955)	457668	100.000	100	
88	1,2,4-Trimethylbenzene	105	14.777	14.774	(0.961)	2104484	100.000	100	
89	P-Isopropyltoluene	119	15.170	15.167	(0.987)	1874902	100.000	99.6	
90	1,3-Dichlorobenzene	146	15.263	15.260	(0.993)	1184418	100.000	99.2	
* 91	1,4-Dichlorobenzene-D4	152	15.377	15.374	(1.000)	554209	50.0000		
92	1,4-Dichlorobenzene	146	15.406	15.403	(1.002)	1346707	100.000	91.8	
93	N-Butylbenzene	91	15.835	15.832	(1.030)	1744975	100.000	101	
94	sec-Butylbenzene	105	14.941	14.938	(0.972)	2113874	100.000	99.7	
95	1,2-Dichlorobenzene	146	16.071	16.068	(1.045)	1186735	100.000	98.2	
96	1,2-Dibromo-3-Chloropropane	75	17.401	17.390	(1.132)	121283	100.000	97.3	
97	1,3,5-Trichlorobenzene	180	17.472	17.469	(1.136)	785158	100.000	102	
98	Hexachlorobutadiene	225	18.581	18.578	(1.208)	299880	100.000	93.6	
99	1,2,4-Trichlorobenzene	180	18.595	18.592	(1.209)	755977	100.000	97.1	
100	1,2,3-Trimethylbenzene	105	15.449	15.453	(1.005)	2133699	100.000	99.6	
101	Naphthalene	128	19.174	19.171	(1.247)	2016106	100.000	100	
102	1,2,3-Trichlorobenzene	180	19.510	19.507	(1.269)	658738	100.000	100	
103	Methyl Acetate	43	4.845	4.842	(0.611)	326055	100.000	105	
104	Methylcyclohexane	83	8.535	8.539	(1.077)	605744	100.000	103	


Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8866.D
Date : 11-JUN-2014 16:45
Client ID: Initial Calibration
Sample Info: WG144515-5
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D061114.b\D8866.D
Y (x10^6)
Min
-Chloromethane (2.236)
-Vinyl Chloride (2.336)
-Bromomethane (2.715)
-Chloroethane (2.872)
-Trichlorofluoromethane (3.051)
-Diethyl Ether (3.437)
-Iodomethane (3.895)
-Acrolein (4.166)
-Allyl Chloride (4.388)
-Acetone (4.824)
-trans-1,2-Dichloroethene (4.817)+
-Methyl tert-butyl ether (5.010)
-Tertiary-butyl alcohol (5.196)
-Acetonitrile (5.382)
-Di-isopropyl ether (5.675)
-Ethyl tertiary-butyl ethe (6.240)+
-cis-1,2-Dichloroethene (6.640)
-2,2-Dichloropropane (6.791)
-Bromochloromethane (6.919)+
-Chloroform (7.034)
-Carbon Tetrachloride (7.227)+
-1,1-Dichloropropene (7.477)+
-Propionitrile (7.799)+
Methacrylonitrile (7.856)
-1,4-Difluorobenzene (8.585)
Trichloroethene (8.542)+
-Dibromofluoromethane (9.043)
-Bromodichloromethane (9.260)
-Methyl Methacrylate (9.458)+
-2-Chloroethylvinylether (9.837)
cis-1,3-dichloropropene (10.001)
-Ethyl Methacrylate (10.945)+
4-methyl-2-pentanone (10.716)+
-Dibromochloromethane (11.152)
-1,3-Dichloropropane (11.267)
-1,2-Dibromoethane (11.431)
-2-Hexanone (11.717)
-Chlorobenzene-D5 (12.082)+
m+p-Xylenes (12.325)
-Isopropylbenzene (13.326)
-1,1,1,2-Tetrachloroethane (13.908)
-4-Chlorotoluene (14.370)
-tert-Butylbenzene (14.670)+
1,3,5-Trimethylbenzene (14.198)+
1,2,4-Trimethylbenzene (14.777)
-sec-Butylbenzene (14.942)
-1,3-Dichlorobenzene (15.269)
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.836)
-1,2-Dichlorobenzene (16.071)
-1,2-Dibromo-3-Chloroprop
1,3,5-Trichlorobenzene (17.473)
-Hexachlorobutadiene (18.595)+
-Naphthalene (19.175)
-1,2,3-Trichlorobenzene (19.511)
-Xylenes (total) (21.080)

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8867.D
Report Date: 07-Jul-2014 10:53

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D061114.b\D8867.D
Lab Smp Id: WG144515-4 Client Smp ID: Initial Calibration
Inj Date : 11-JUN-2014 17:18 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG144515-4
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D061114.b\D826A48.m
Meth Date : 12-Jun-2014 08:50 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 17:18 Cal File: D8867.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

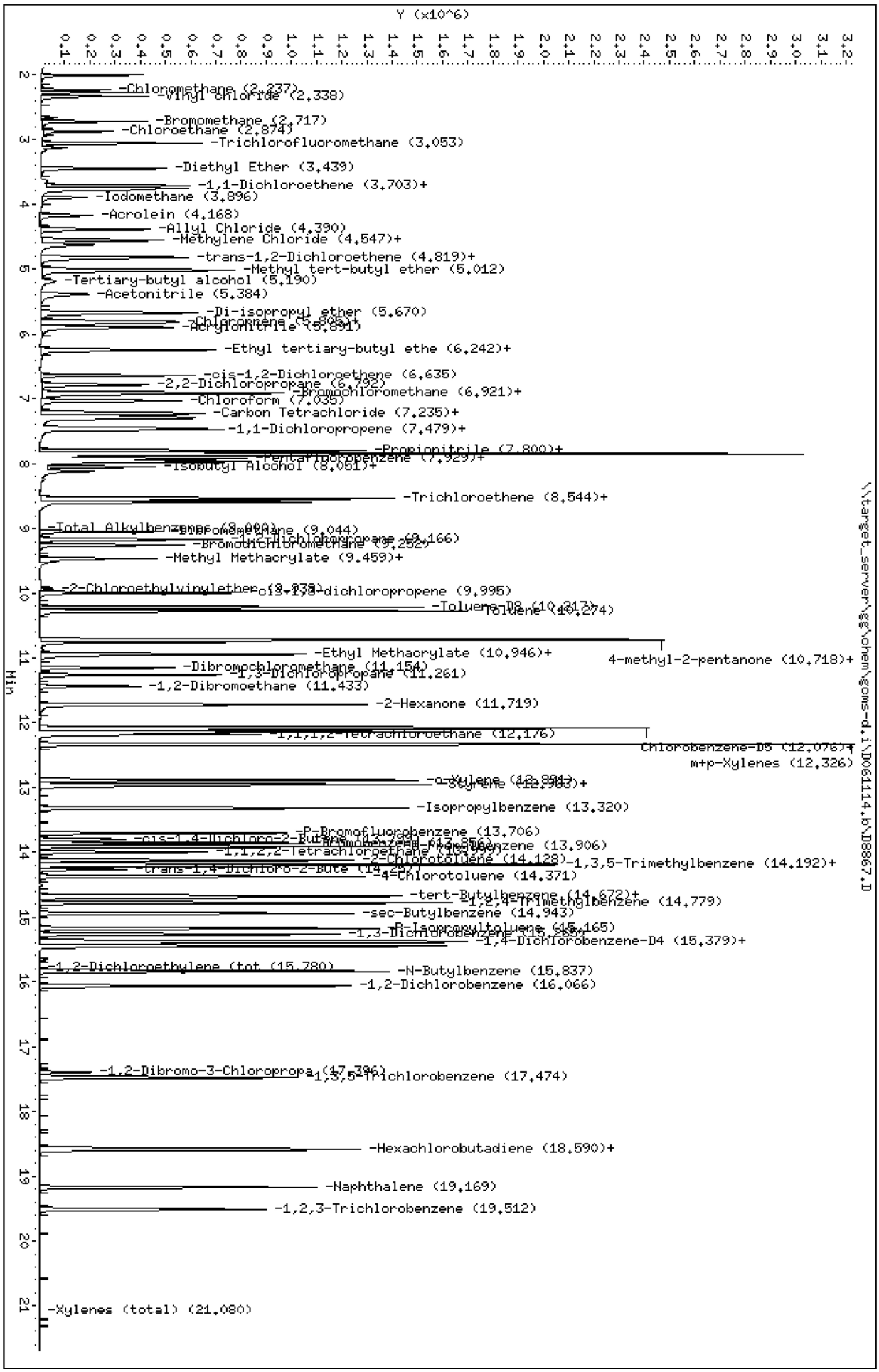
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.008	2.011	(0.253)	270521	50.0000	50.0	
2	Chloromethane	50	2.237	2.233	(0.282)	325103	50.0000	58.5	
3	Vinyl chloride	62	2.337	2.333	(0.295)	337587	50.0000	49.8	
4	Bromomethane	94	2.716	2.712	(0.343)	206412	50.0000	51.4	
5	Chloroethane	64	2.873	2.869	(0.362)	230405	50.0000	52.3	
6	Trichlorofluoromethane	101	3.052	3.048	(0.385)	476660	50.0000	46.6	
7	Diethyl Ether	59	3.438	3.441	(0.434)	202991	50.0000	50.7	
8	Tertiary-butyl alcohol	59	5.190	5.186	(0.655)	91737	250.000	320	
9	1,1-Dichloroethene	96	3.703	3.705	(0.467)	239785	50.0000	53.5	
10	Carbon Disulfide	76	3.746	3.741	(0.472)	759680	50.0000	51.1	
11	Freon-113	151	3.774	3.770	(0.476)	123945	50.0000	49.9	
12	Iodomethane	142	3.896	3.891	(0.491)	218336	50.0000	52.2	
13	Acrolein	56	4.168	4.170	(0.526)	214904	250.000	294	
14	Methylene Chloride	84	4.554	4.549	(0.574)	295398	50.0000	54.6	
15	Acetone	43	4.618	4.621	(0.582)	337334	250.000	264	
16	Isobutyl Alcohol	43	8.122	8.117	(1.024)	140814	1000.00	1230	
17	trans-1,2-Dichloroethene	96	4.818	4.821	(0.608)	273785	50.0000	53.5	
18	Allyl Chloride	41	4.389	4.392	(0.554)	301745	50.0000	52.5	
19	Methyl tert-butyl ether	73	5.011	5.014	(0.632)	1075487	100.000	102	
20	Acetonitrile	39	5.383	5.379	(0.679)	60093	500.000	483	
21	Di-isopropyl ether	45	5.676	5.672	(0.716)	688586	50.0000	56.6	
22	Chloroprene	53	5.798	5.800	(0.731)	300325	50.0000	53.2	
23	Propionitrile	54	7.814	7.824	(0.986)	383192	500.000	538	
24	Methacrylonitrile	41	7.850	7.860	(0.990)	1320063	500.000	519	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8867.D
Report Date: 07-Jul-2014 10:53

							AMOUNTS		
		QUANT SIG					CAL-AMT	ON-COL	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/l)	(ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.826	5.829	(0.735)	455755	50.0000	49.4	
	26 Acrylonitrile	52	5.891	5.893	(0.743)	387944	250.000	272	
	27 Ethyl tertiary-butyl ether	59	6.241	6.237	(0.787)	406879	50.0000	50.9	
	28 Vinyl Acetate	43	6.241	6.244	(0.727)	483282	50.0000	52.3	
	29 cis-1,2-Dichloroethene	96	6.634	6.637	(0.837)	284991	50.0000	52.3	
	31 Methyl Methacrylate	41	9.459	9.454	(1.102)	177590	50.0000	50.1	
	32 2,2-Dichloropropane	77	6.792	6.787	(0.857)	290013	50.0000	50.8	
	33 Bromochloromethane	128	6.913	6.916	(0.872)	133802	50.0000	52.3	
	34 Chloroform	83	7.035	7.037	(0.887)	447482	50.0000	49.2	
	35 Carbon Tetrachloride	117	7.213	7.216	(0.840)	307296	50.0000	54.4	
	36 Tetrahydrofuran	42	7.235	7.238	(0.913)	318146	250.000	258	
$	37 Dibromofluoromethane	113	7.278	7.281	(0.918)	235672	50.0000	49.0	
	38 1,1,1-Trichloroethane	97	7.306	7.302	(0.922)	383203	50.0000	53.4	
	39 1,1-Dichloropropene	75	7.478	7.474	(0.871)	343529	50.0000	54.0	
	40 2-Butanone	43	7.442	7.445	(0.939)	543052	250.000	262	
	41 Benzene	78	7.800	7.795	(0.908)	1099849	50.0000	52.7	
*	42 Pentafluorobenzene	168	7.928	7.931	(1.000)	508846	50.0000		
	43 Cyclohexane	56	6.927	6.930	(0.874)	350350	50.0000	53.1	
	44 Ethyl Methacrylate	69	10.953	10.956	(1.276)	315475	50.0000	54.7	
$	45 1,2-Dichloroethane-D4	65	7.964	7.967	(1.004)	268928	50.0000	47.0	
	46 Tertiary-amyl methyl ether	73	7.971	7.974	(1.005)	320149	50.0000	49.8	
	47 1,2-Dichloroethane	62	8.050	8.053	(0.938)	315362	50.0000	49.2	
	48 Trichloroethene	95	8.543	8.545	(0.995)	250931	50.0000	50.7	
*	49 1,4-Difluorobenzene	114	8.586	8.589	(1.000)	805504	50.0000		
	50 Dibromomethane	93	9.044	9.047	(1.053)	165616	50.0000	51.8	
	51 1,2-Dichloropropane	63	9.165	9.168	(1.067)	250798	50.0000	52.5	
	52 Bromodichloromethane	83	9.251	9.254	(1.077)	339932	50.0000	54.0	
	53 cis-1,3-dichloropropene	75	9.995	9.998	(1.164)	428130	50.0000	50.8	
	54 1,4-Dioxane	88	9.494	9.497	(1.106)	58057	1000.00	1120	
$	55 Toluene-D8	98	10.217	10.219	(1.190)	880416	50.0000	54.2	
	56 2-Chloroethylvinylether	63	9.938	9.933	(1.157)	23006	50.0000	44.5	
	57 Toluene	92	10.274	10.276	(1.197)	675023	50.0000	54.1	
	58 4-methyl-2-pentanone	43	10.710	10.713	(1.247)	1011094	250.000	278	
	59 Tetrachloroethene	164	10.724	10.727	(0.888)	210331	50.0000	53.6	
	60 trans-1,3-Dichloropropene	75	10.753	10.755	(1.252)	341934	50.0000	49.6	
	61 1,1,2-Trichloroethane	83	10.939	10.941	(1.274)	202927	50.0000	52.0	
	62 Dibromochloromethane	129	11.153	11.156	(0.924)	265085	50.0000	56.8	
	63 1,3-Dichloropropane	76	11.260	11.263	(0.933)	436542	50.0000	54.7	
	64 1,2-Dibromoethane	107	11.432	11.435	(1.331)	246532	50.0000	55.0	
	65 2-Hexanone	43	11.718	11.721	(0.970)	723419	250.000	293	
*	66 Chlorobenzene-D5	117	12.076	12.071	(1.000)	764958	50.0000		
	67 Chlorobenzene	112	12.097	12.100	(1.002)	674568	50.0000	50.6	
	152 1-Chlorohexane	91	12.076	12.078	(1.000)	331067	50.0000	52.8	
	68 Ethylbenzene	106	12.133	12.143	(1.005)	377618	50.0000	52.9	
	69 1,1,1,2-Tetrachloroethane	131	12.176	12.178	(1.008)	235420	50.0000	54.2	
	71 m+p-Xylenes	106	12.326	12.329	(1.021)	941572	100.000	112	
	72 o-Xylene	106	12.891	12.893	(1.067)	429616	50.0000	52.4	
	73 Styrene	104	12.962	12.958	(1.073)	782375	50.0000	52.2	
	74 Bromoform	173	12.984	12.986	(1.075)	168093	50.0000	48.3	
	75 Isopropylbenzene	105	13.320	13.322	(0.866)	999531	50.0000	59.6	
$	76 P-Bromofluorobenzene	95	13.706	13.708	(1.596)	343658	50.0000	56.7	
	77 cis-1,4-Dichloro-2-Butene	53	13.799	13.801	(0.897)	73899	50.0000	52.1	
	78 trans-1,4-Dichloro-2-Butene	53	14.256	14.259	(0.927)	70320	50.0000	51.4	
	79 Bromobenzene	156	13.856	13.859	(0.901)	303151	50.0000	55.9	

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Report Date: 07-Jul-2014 10:53

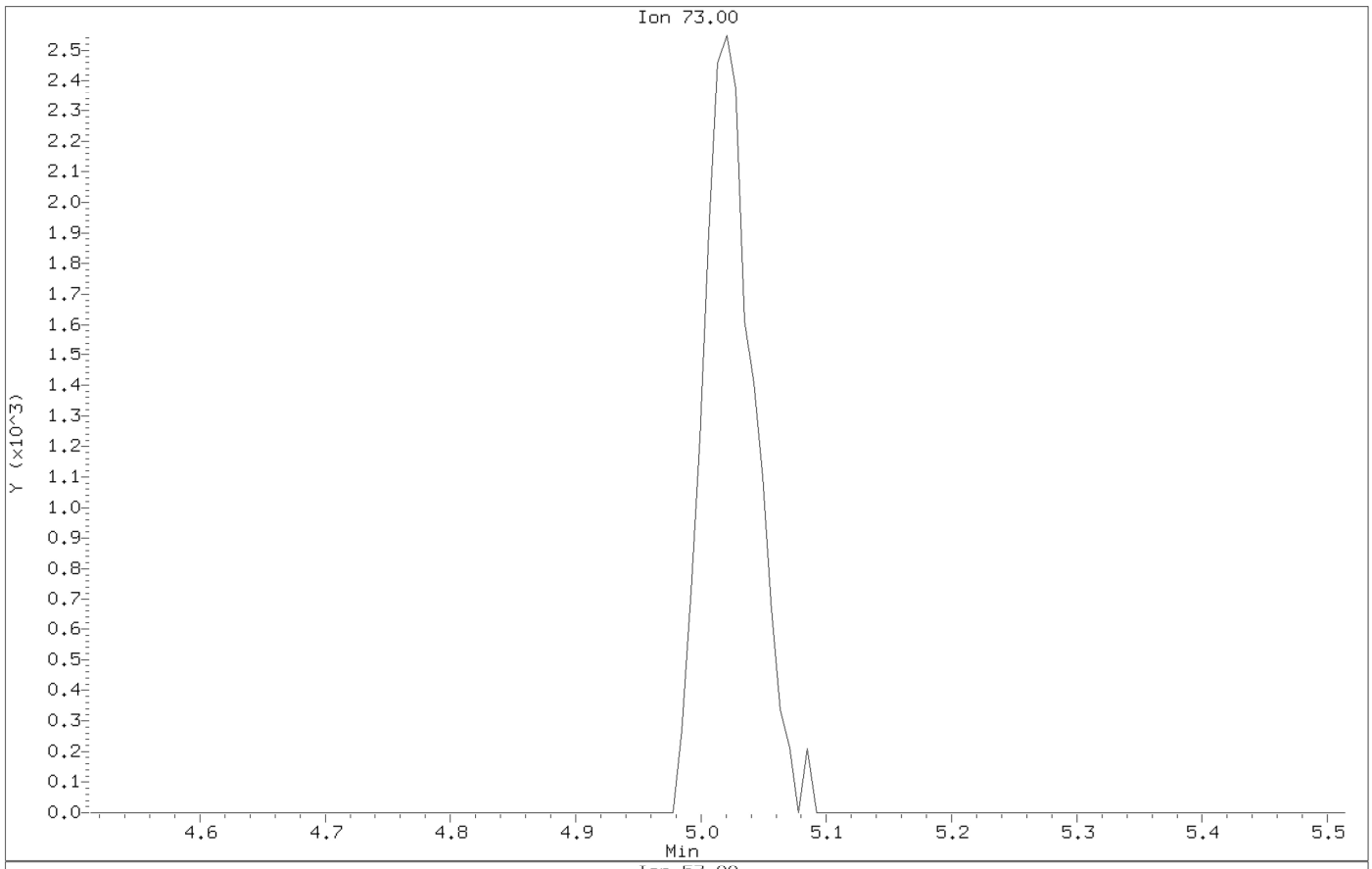
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	13.906	13.909	(0.904)	1170750	50.0000	58.5	
81	1,1,2,2-Tetrachloroethane	83	13.999	13.994	(0.910)	347545	50.0000	53.4	
82	1,3,5-Trimethylbenzene	105	14.199	14.202	(0.923)	934324	50.0000	55.1	
83	2-Chlorotoluene	91	14.128	14.123	(0.919)	761471	50.0000	56.9	
84	1,2,3-Trichloropropane	75	14.192	14.188	(0.923)	273615	50.0000	52.9	
85	4-Chlorotoluene	91	14.371	14.373	(0.934)	789201	50.0000	56.8	
86	tert-Butylbenzene	119	14.671	14.667	(0.954)	825159	50.0000	53.2	
87	Pentachloroethane	117	14.685	14.688	(0.955)	197611	50.0000	53.4	
88	1,2,4-Trimethylbenzene	105	14.778	14.774	(0.961)	972427	50.0000	56.3	
89	P-Isopropyltoluene	119	15.164	15.167	(0.986)	865700	50.0000	56.2	
90	1,3-Dichlorobenzene	146	15.265	15.260	(0.993)	540225	50.0000	55.8	
* 91	1,4-Dichlorobenzene-D4	152	15.379	15.374	(1.000)	449110	50.0000		
92	1,4-Dichlorobenzene	146	15.400	15.403	(1.001)	611697	50.0000	51.4	
93	N-Butylbenzene	91	15.837	15.832	(1.030)	836099	50.0000	58.8	
94	sec-Butylbenzene	105	14.943	14.938	(0.972)	985992	50.0000	56.6	
95	1,2-Dichlorobenzene	146	16.065	16.068	(1.045)	548760	50.0000	56.0	
96	1,2-Dibromo-3-Chloropropane	75	17.395	17.390	(1.131)	55601	50.0000	55.3	
97	1,3,5-Trichlorobenzene	180	17.474	17.469	(1.136)	369688	50.0000	59.2	
98	Hexachlorobutadiene	225	18.575	18.578	(1.208)	146539	50.0000	56.5	
99	1,2,4-Trichlorobenzene	180	18.596	18.592	(1.209)	363731	50.0000	57.4	
100	1,2,3-Trimethylbenzene	105	15.450	15.453	(1.005)	981857	50.0000	56.6	
101	Naphthalene	128	19.176	19.171	(1.247)	997104	50.0000	60.7	
102	1,2,3-Trichlorobenzene	180	19.512	19.507	(1.269)	326679	50.0000	60.5	
103	Methyl Acetate	43	4.847	4.842	(0.611)	162734	50.0000	56.8	
104	Methylcyclohexane	83	8.536	8.539	(1.077)	279593	50.0000	51.5	

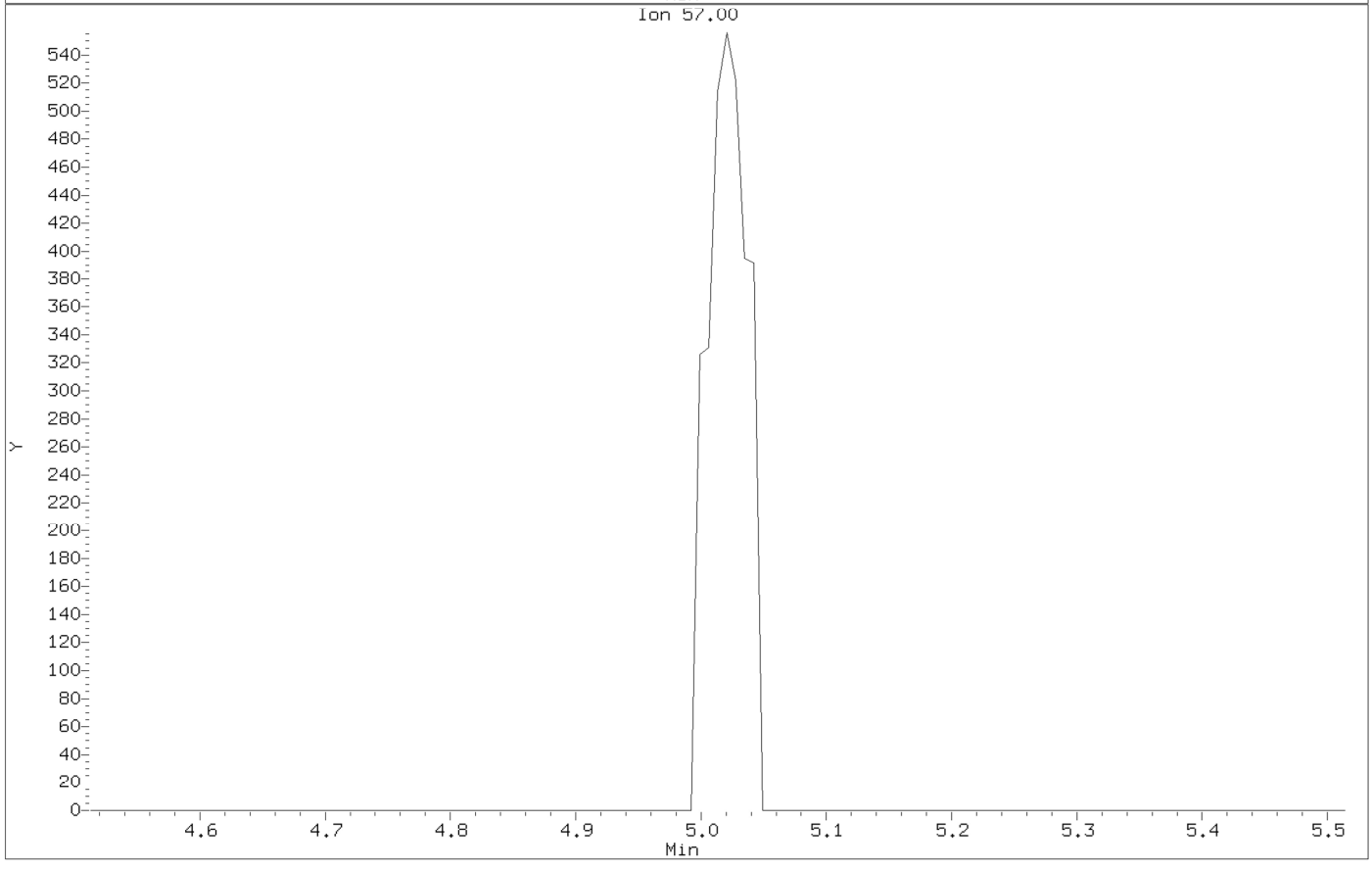

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Date : 11-JUN-2014 17:18
Client ID: Initial Calibration
Sample Info: WG144515-4
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
Y (x10^6)
Min
\\target_server\gg\chem\gcms-d.i\D061114.b\D0867.D
-Chloromethane (2.237)
-Vinyl Chloride (2.338)
-Bromomethane (2.717)
-Chloroethane (2.874)
-Trichlorofluoromethane (3.053)
-Diethyl Ether (3.439)
-1,1-Dichloroethene (3.703)+
-Iodomethane (3.896)
-Acrolein (4.168)
-Allyl Chloride (4.390)
-Methylene Chloride (4.547)+
-trans-1,2-Dichloroethene (4.819)+
-Methyl tert-butyl ether (5.012)
-Tertiary-butyl alcohol (5.190)
-Acetonitrile (5.384)
-Di-isopropyl ether (5.670)
-Chloroprene (5.806)+
-Acrylonitrile (5.891)
-Ethyl tertiary-butyl ethe (6.242)+
-cis-1,2-Dichloroethene (6.635)
-2,2-Dichloropropane (6.792)
-Bromochloromethane (6.921)+
-Chloroform (7.035)
-Carbon Tetrachloride (7.235)+
-1,1-Dichloropropene (7.479)+
-Propionitrile (7.800)+
-Pentafluorobenzene (7.929)+
-Isobutyl Alcohol (8.051)+
-Trichloroethene (8.544)+
-Total Alkylbenzenes (8.900)
-Dibromofluoromethane (9.044)
-1,2-Dichloropropane (9.166)
-Bromodichloromethane (9.262)+
-Methyl Methacrylate (9.459)+
-2-Chloroethylvinylether (9.878)
-cis-1,3-dichloropropene (9.995)
-Toluene-D8 (10.217)
-Toluene (10.274)
-Ethyl Methacrylate (10.946)+
4-methyl-2-pentanone (10.718)+
-Dibromochloromethane (11.154)
-1,3-Dichloropropane (11.261)
-1,2-Dibromoethane (11.433)
-2-Hexanone (11.719)
-1,1,1,2-Tetrachloroethane (12.176)
Chlorobenzene-D5 (12.076)+
m+p-Xylenes (12.326)
-o-Xylene (12.894)
-Styrene (12.983)+
-Isopropylbenzene (13.320)
-P-Bromofluorobenzene (13.706)
-cis-1,4-Dichloro-2-Butene (13.760)
-Bromobenzene-D5 (13.850)+
-Propylbenzene (13.906)
-1,1,2,2-Tetrachloroethane (13.990)
-2-Chlorotoluene (14.128)
-1,3,5-Trimethylbenzene (14.192)+
-trans-1,4-Dichloro-2-Bute (14.250)
-4-Chlorotoluene (14.371)
-tert-Butylbenzene (14.672)+
-1,2,4-Trimethylbenzene (14.779)
-sec-Butylbenzene (14.943)
-P-Isopropyltoluene (15.165)
-1,3-Dichlorobenzene (15.266)
-1,4-Dichlorobenzene-D4 (15.379)+
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.837)
-1,2-Dichlorobenzene (16.066)
-1,2-Dibromo-3-Chloropropa (17.296)
-1,3,5-Trichlorobenzene (17.474)
-Hexachlorobutadiene (18.590)+
-Naphthalene (19.169)
-1,2,3-Trichlorobenzene (19.512)
-Xylenes (total) (21.080)

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8863.D
Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID:

Compound: Methyl tert-butyl ether
CAS Number: 1634-04-4

BEFORE MANUAL INTEGRATION

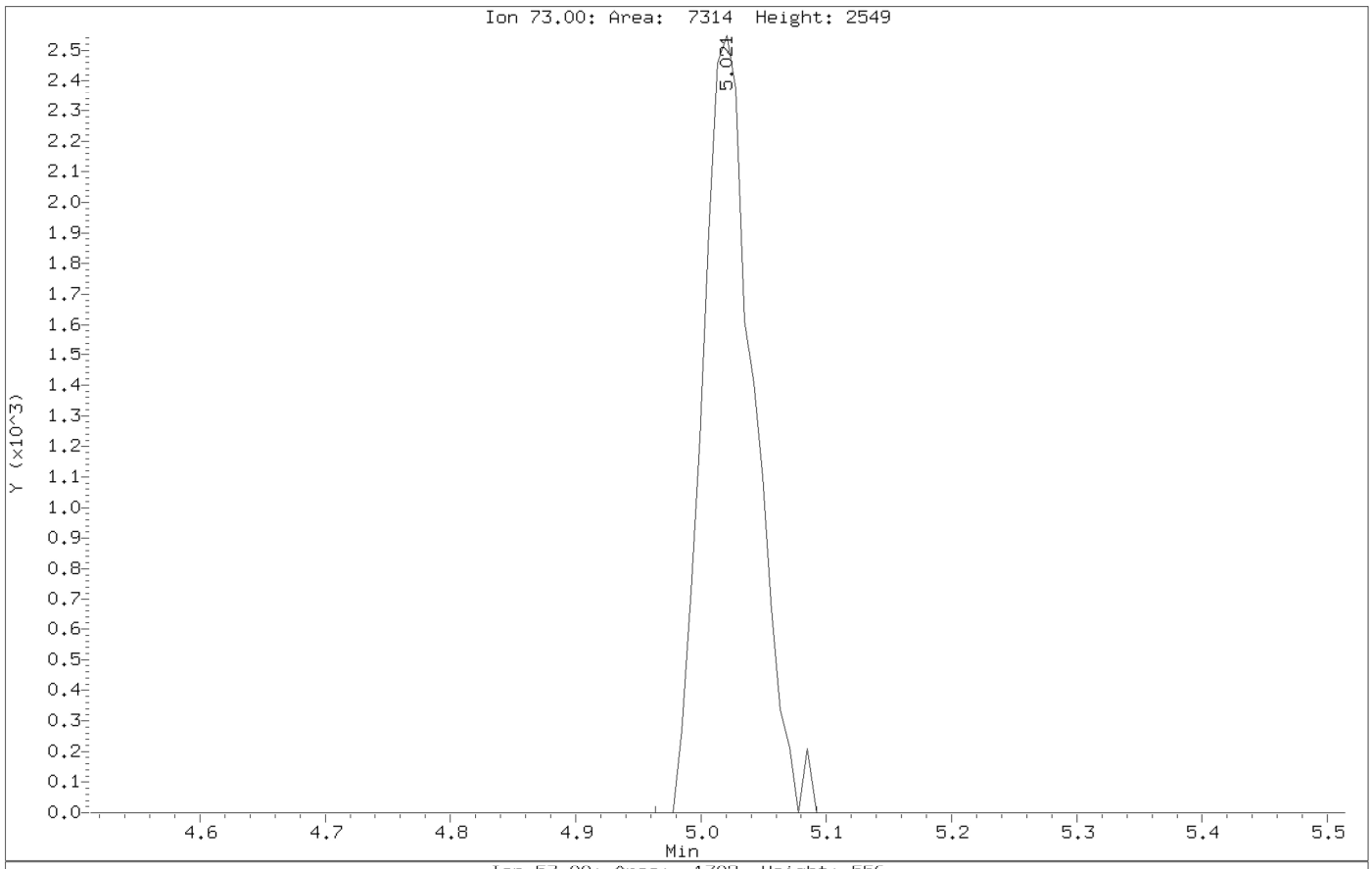


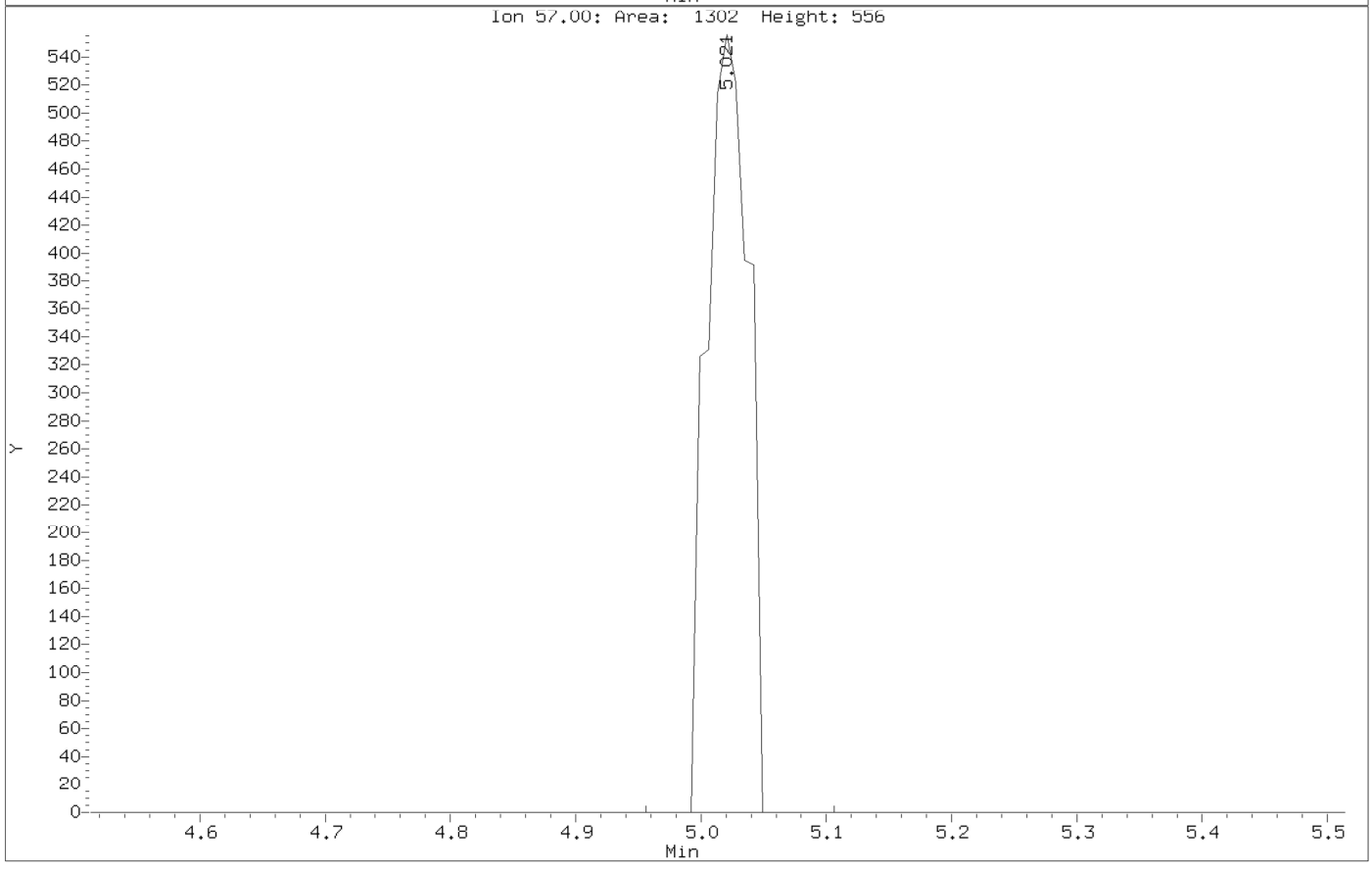


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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID:

Compound: Methyl tert-butyl ether
CAS Number: 1634-04-4

AFTER MANUAL INTEGRATION

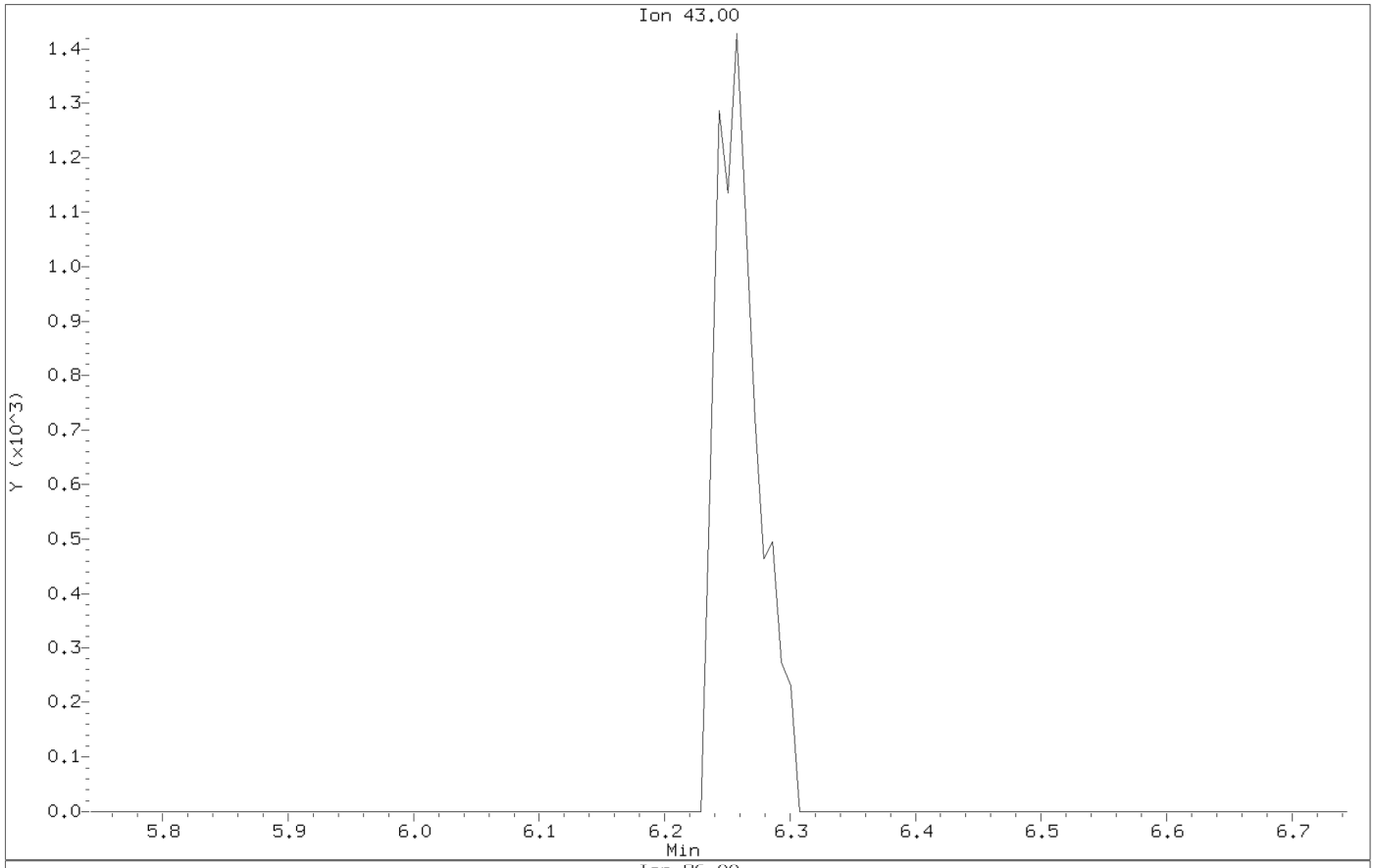


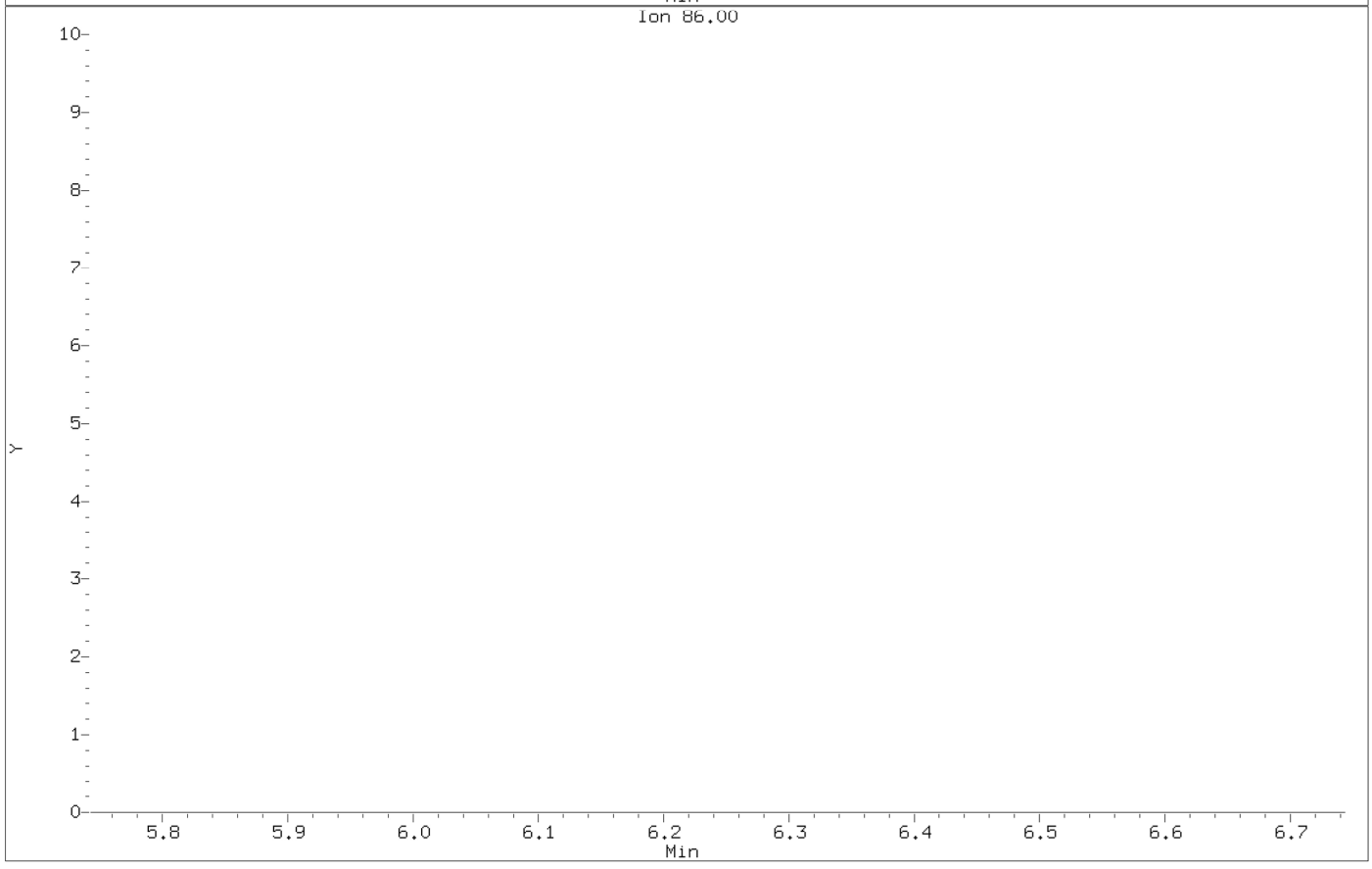


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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID:

Compound: Vinyl Acetate
CAS Number: 108-05-4

BEFORE MANUAL INTEGRATION

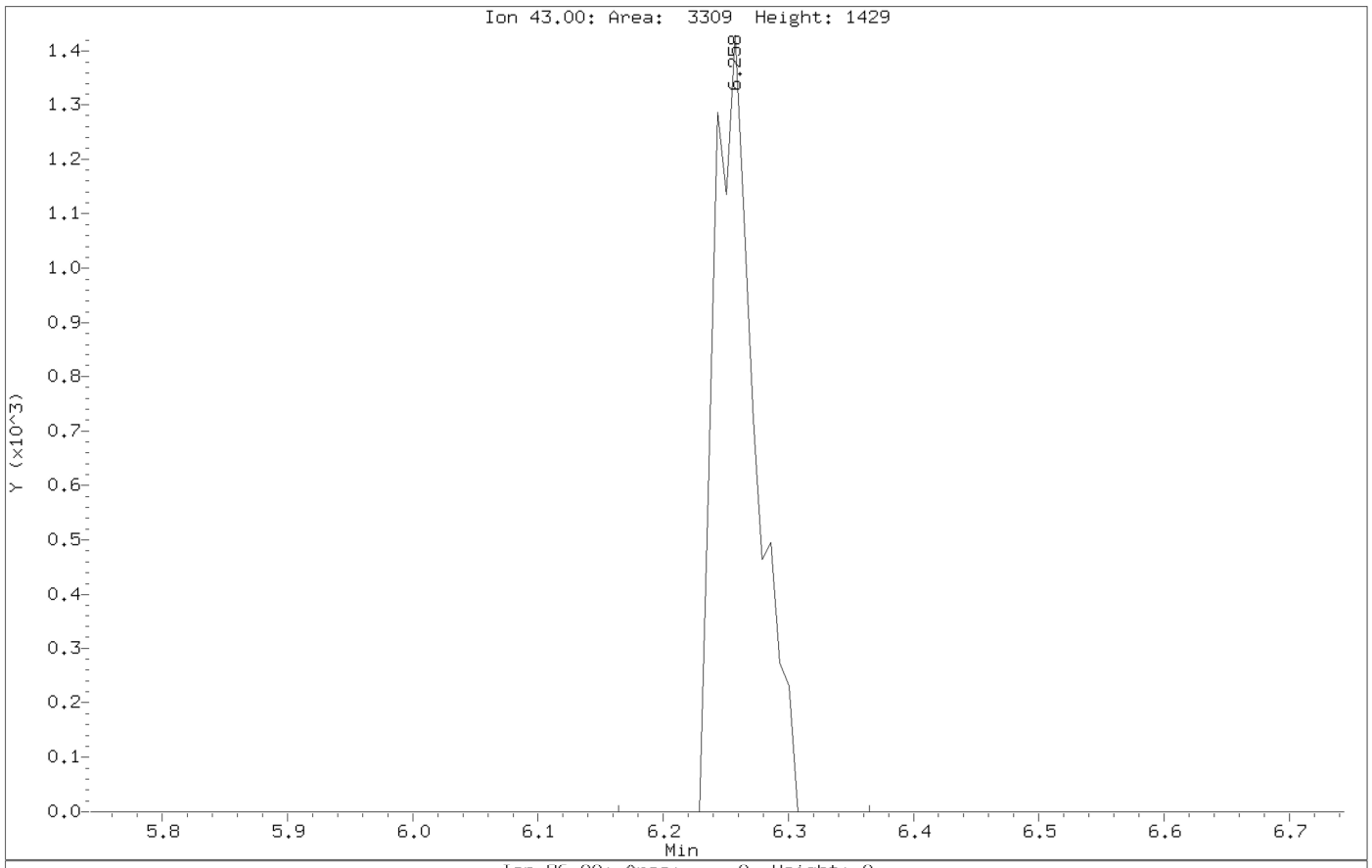


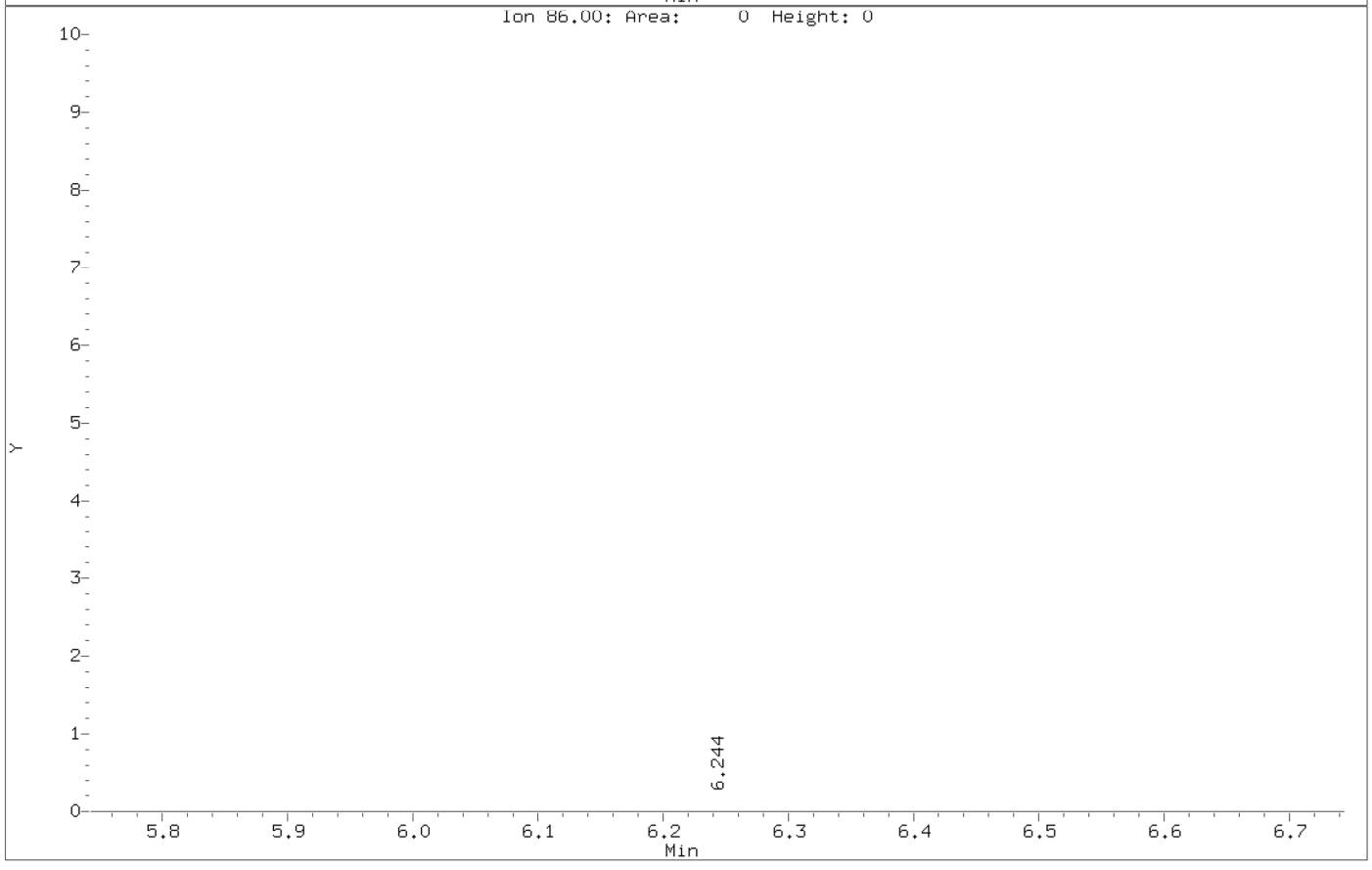


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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID:

Compound: Vinyl Acetate
CAS Number: 108-05-4

AFTER MANUAL INTEGRATION

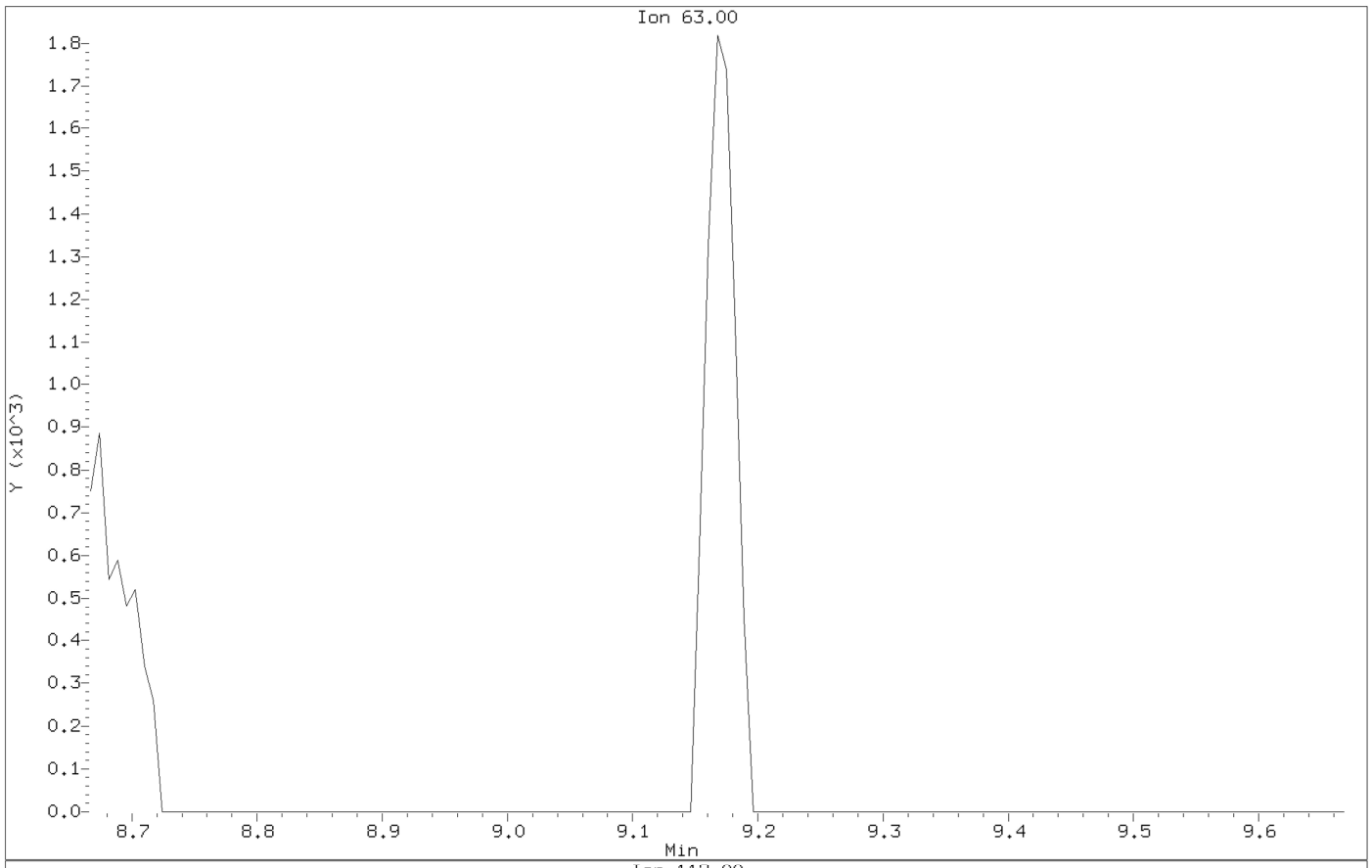


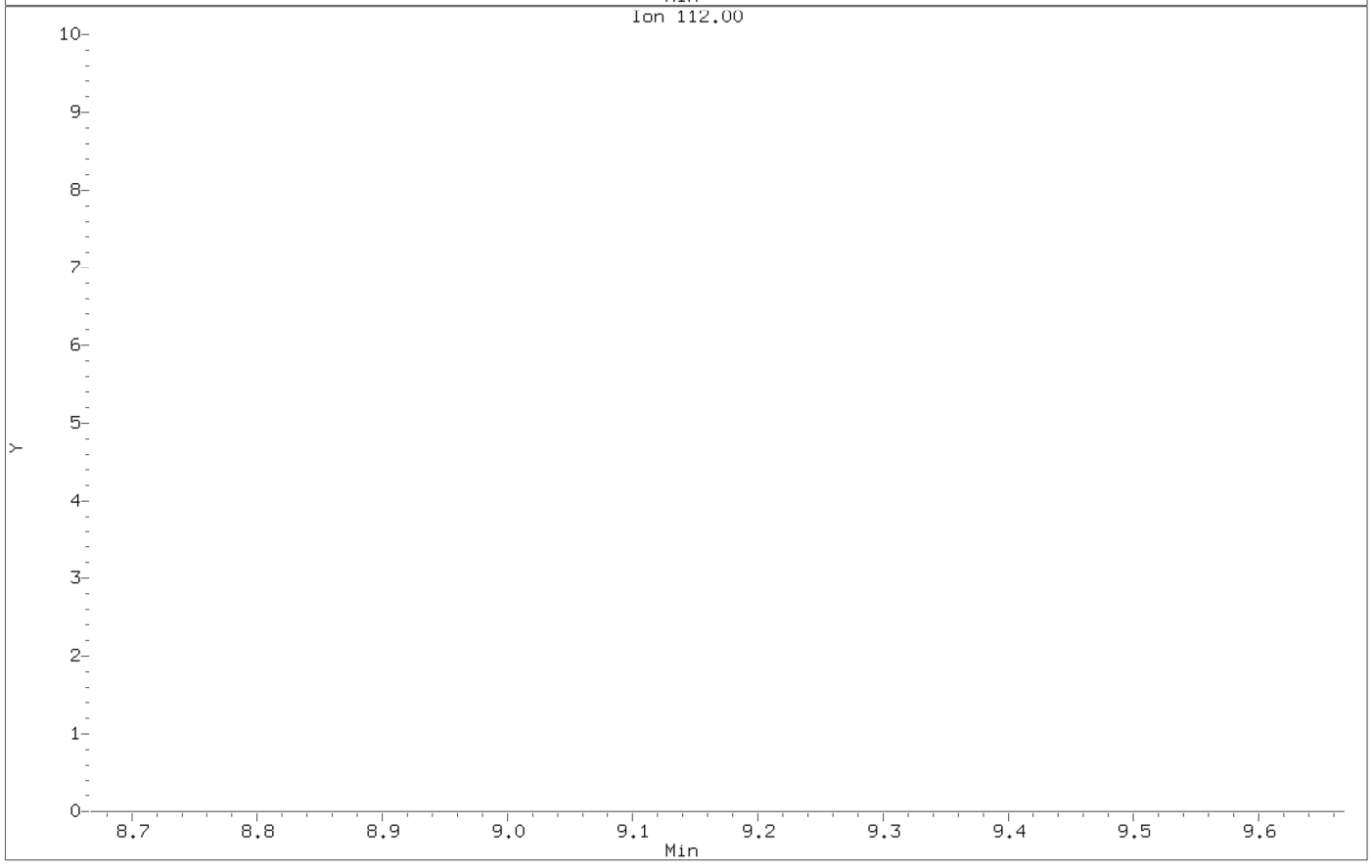


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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID:

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

BEFORE MANUAL INTEGRATION

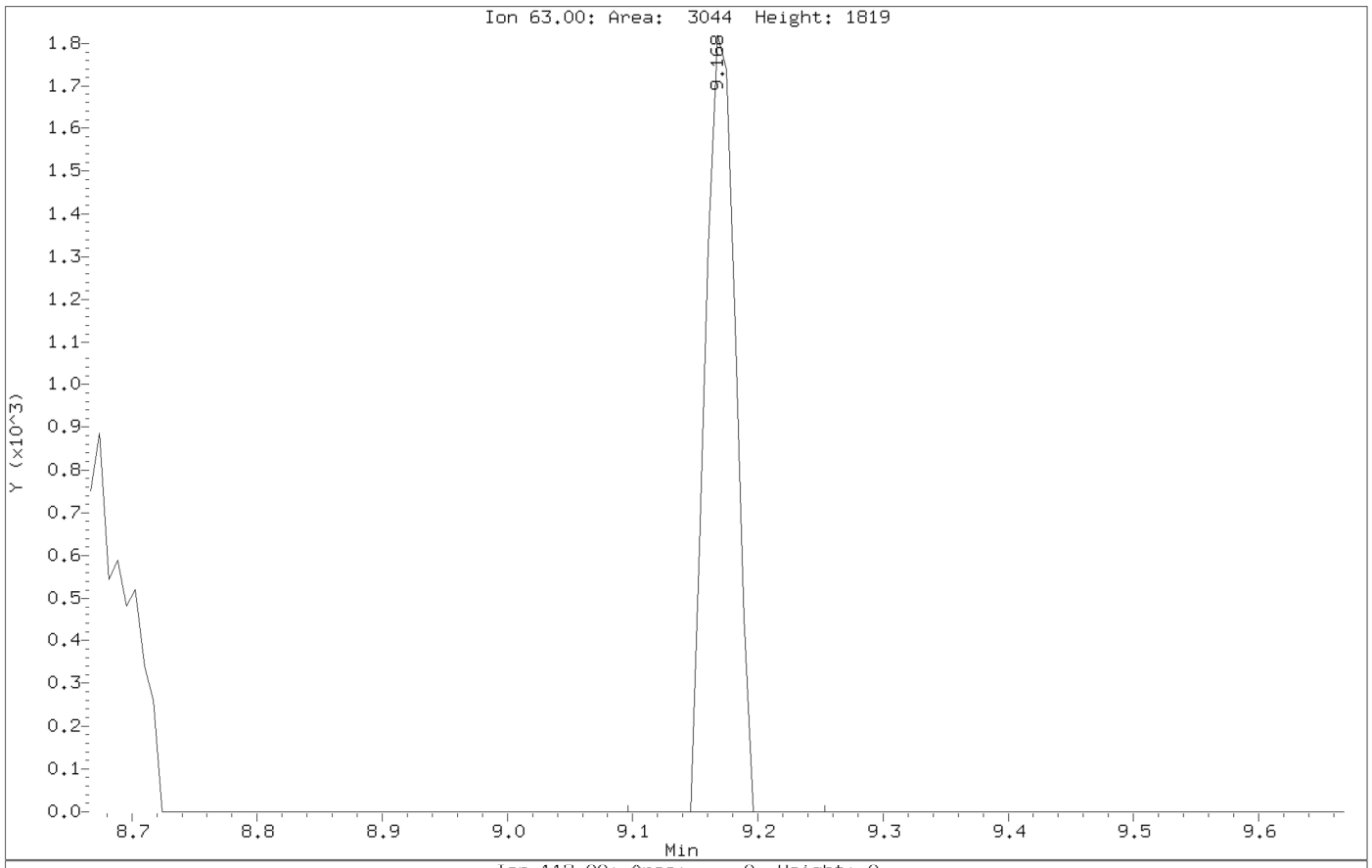


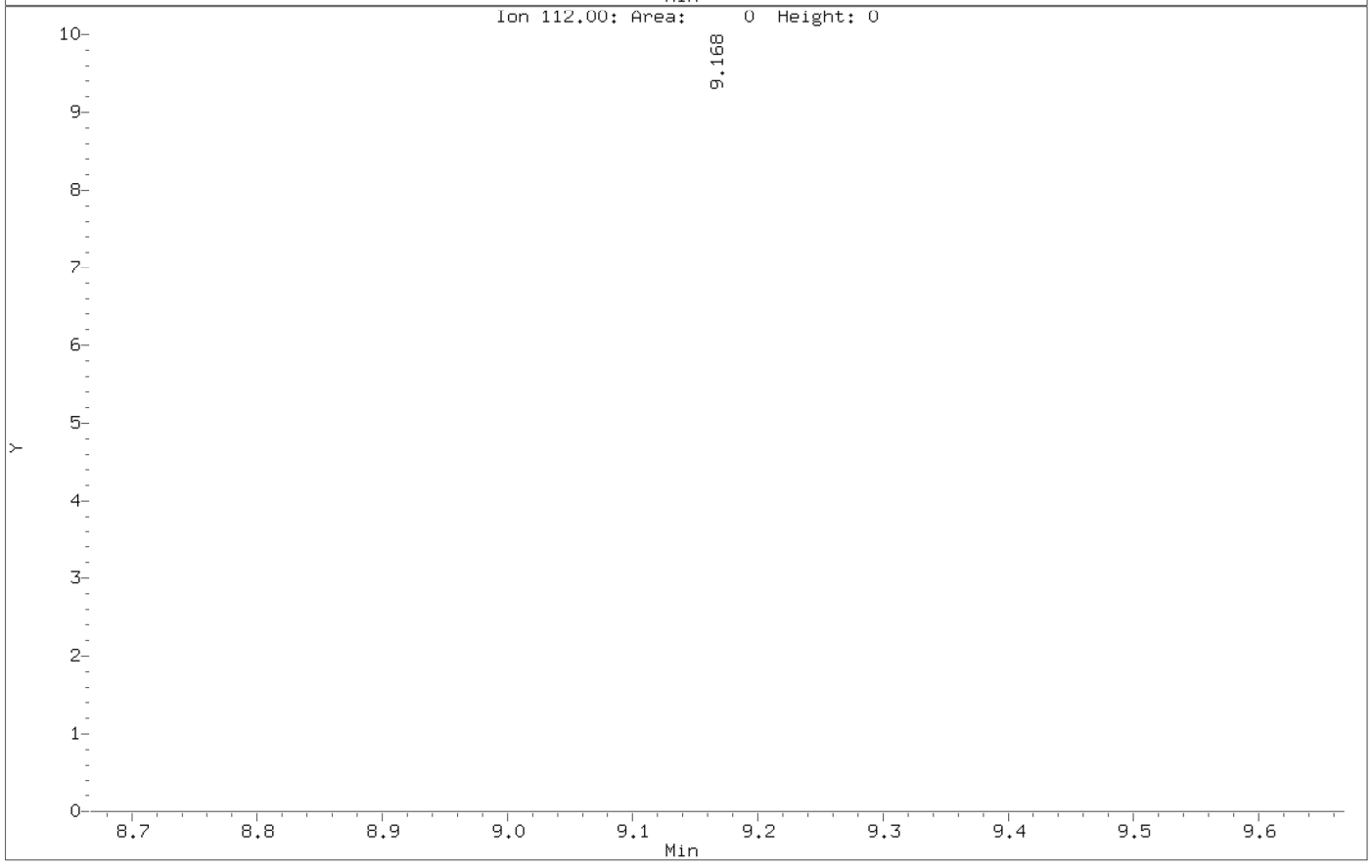


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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID:

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

AFTER MANUAL INTEGRATION

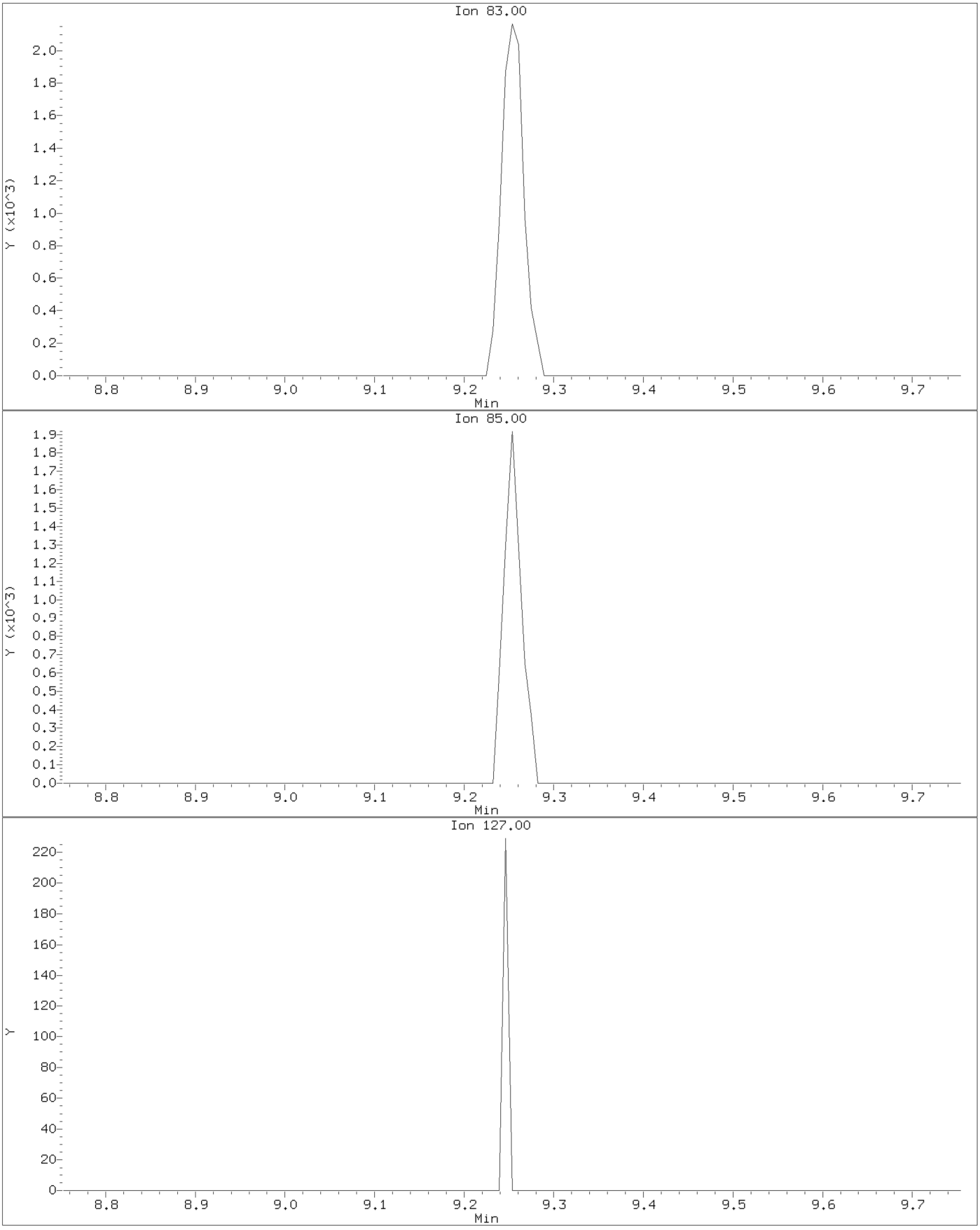




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Instrument: gcms-d.i
Client Sample ID:

Compound: Bromodichloromethane
CAS Number: 75-27-4

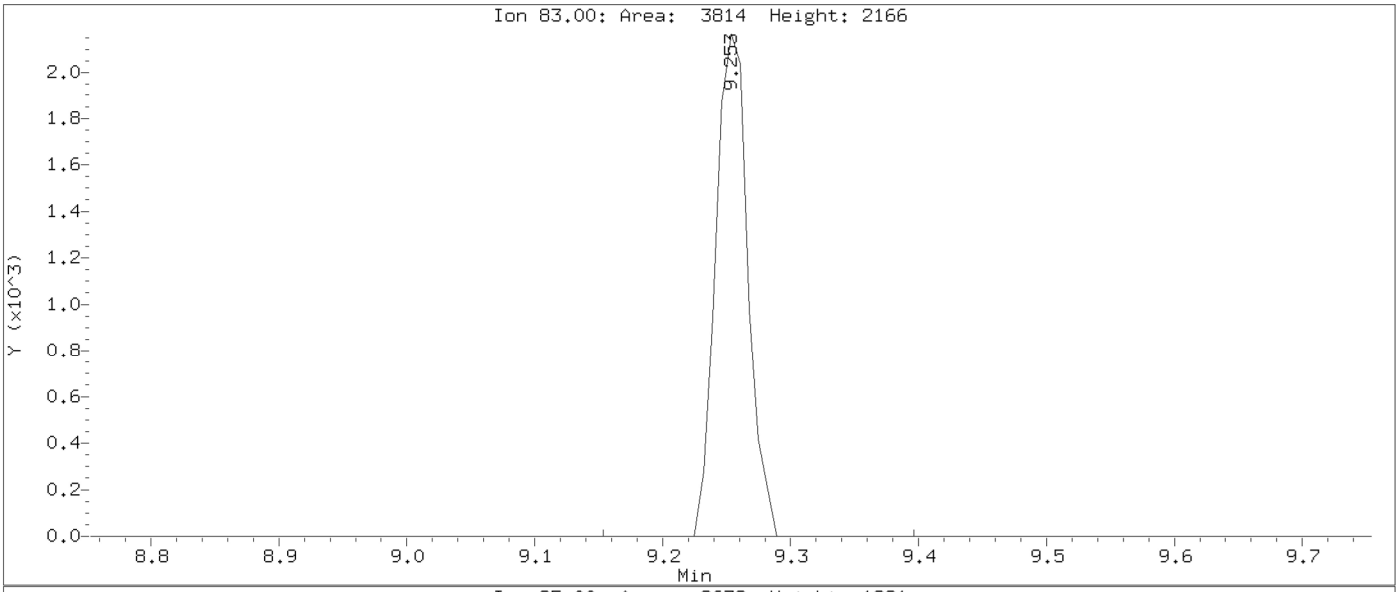
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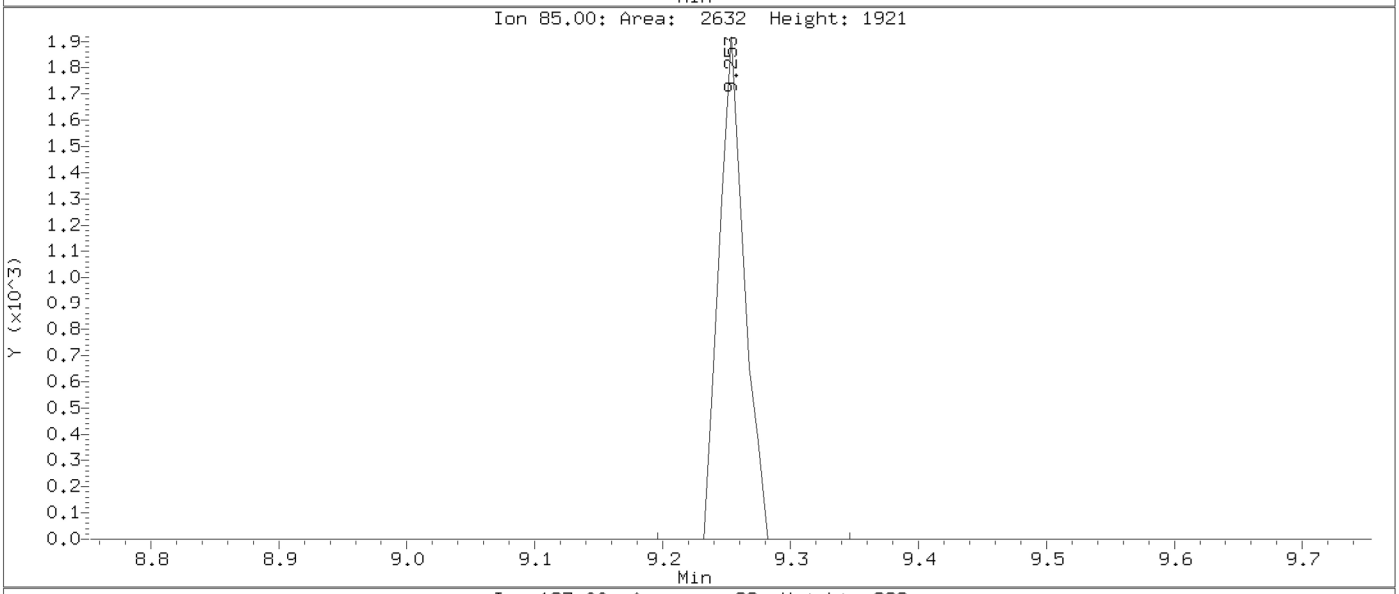


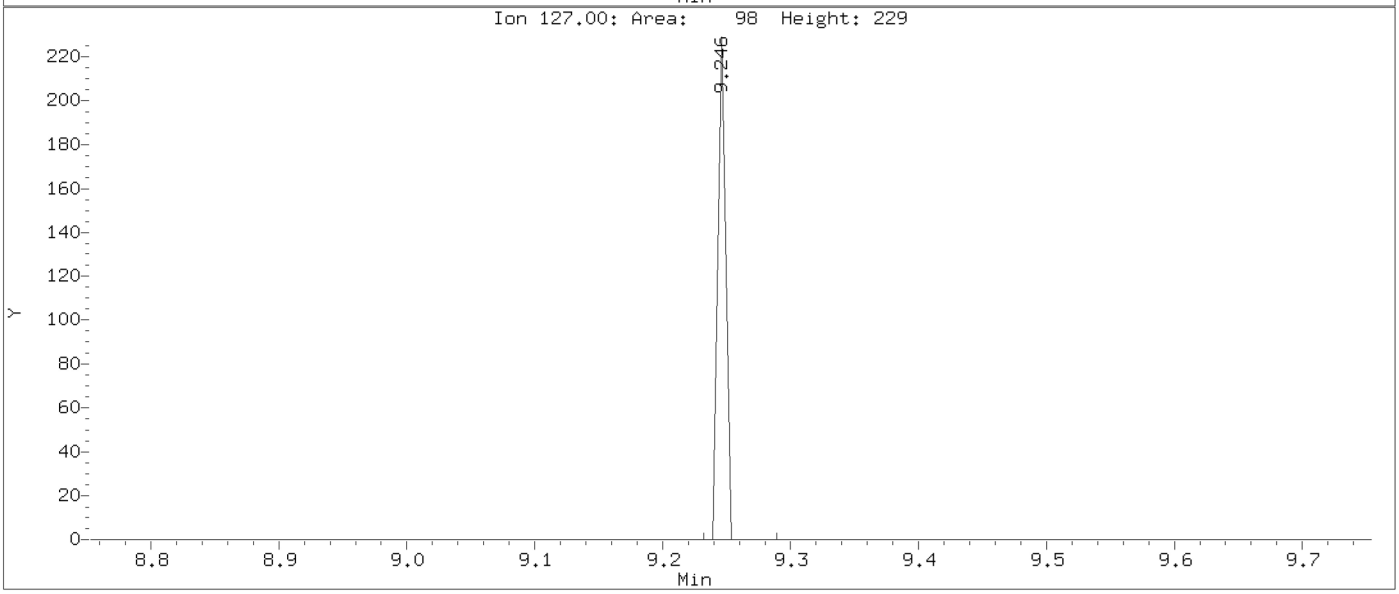
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Instrument: gcms-d.i
Client Sample ID:

Compound: Bromodichloromethane
CAS Number: 75-27-4

AFTER MANUAL INTEGRATION



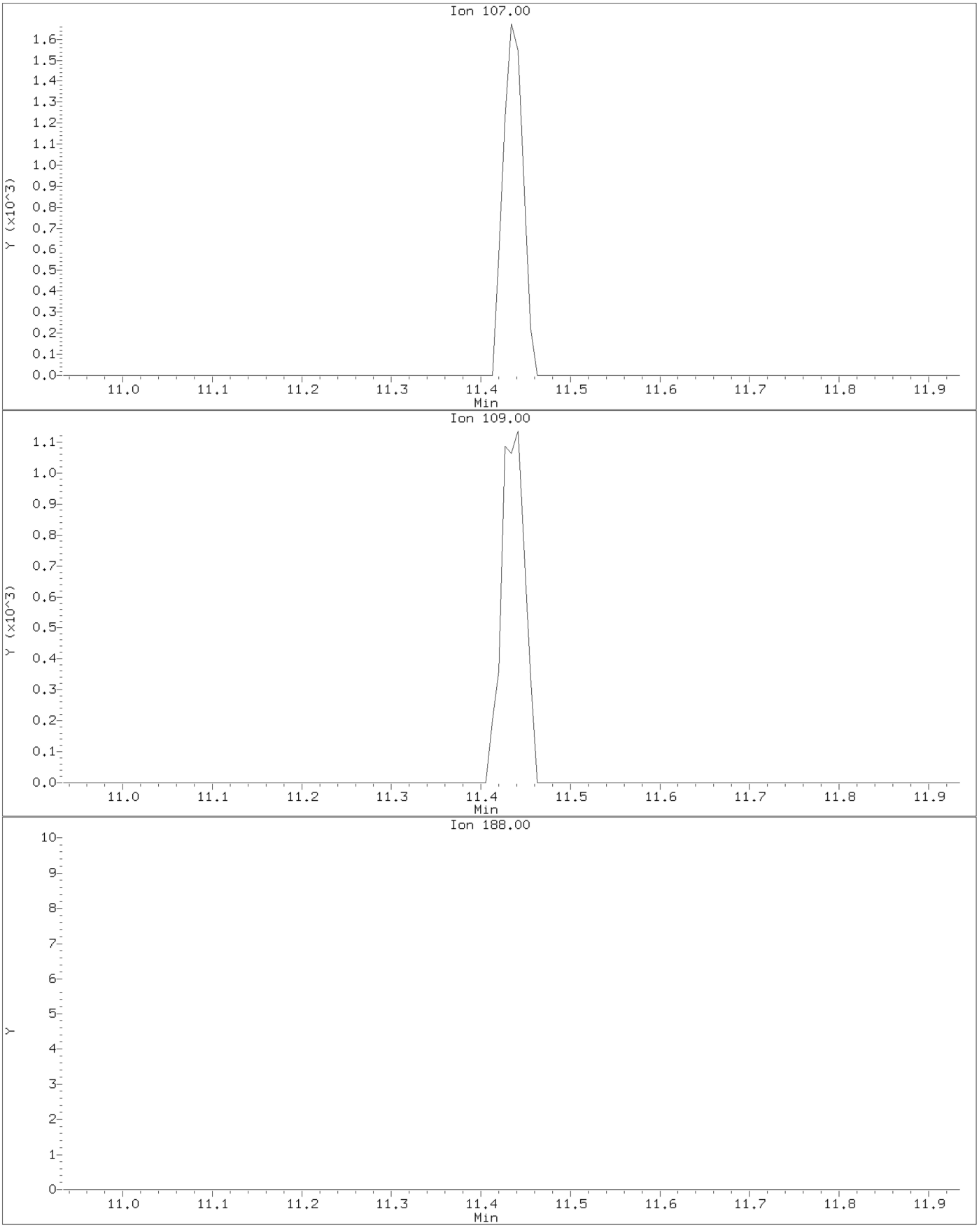




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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

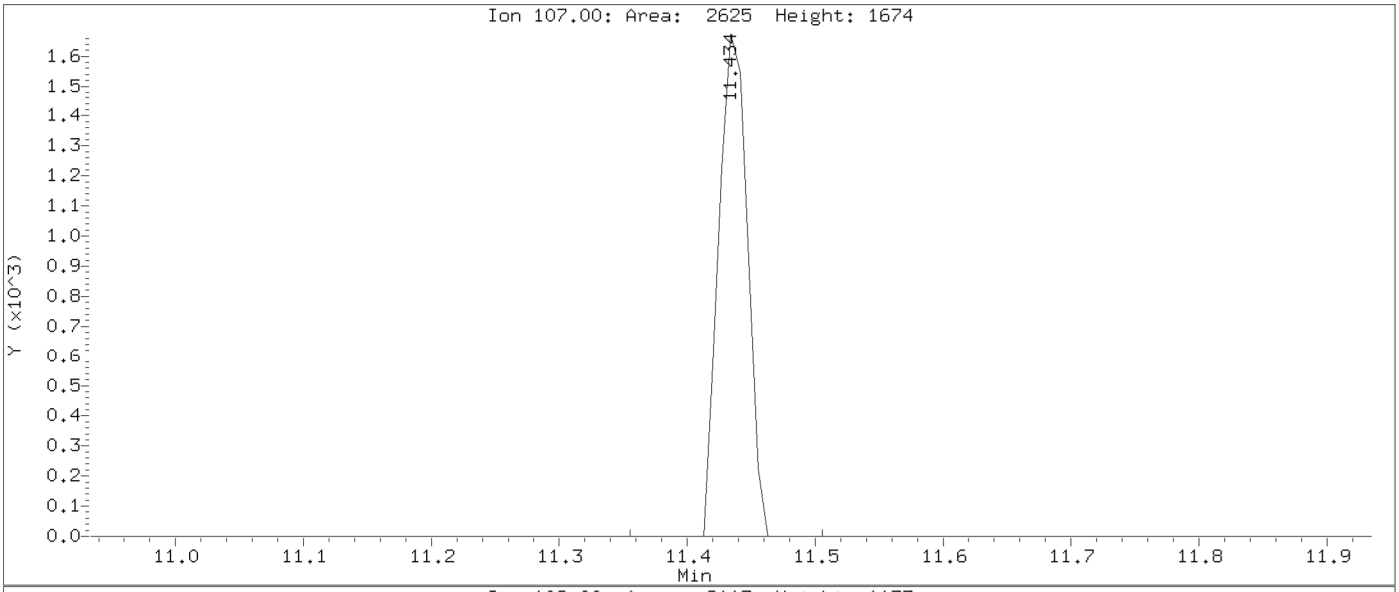
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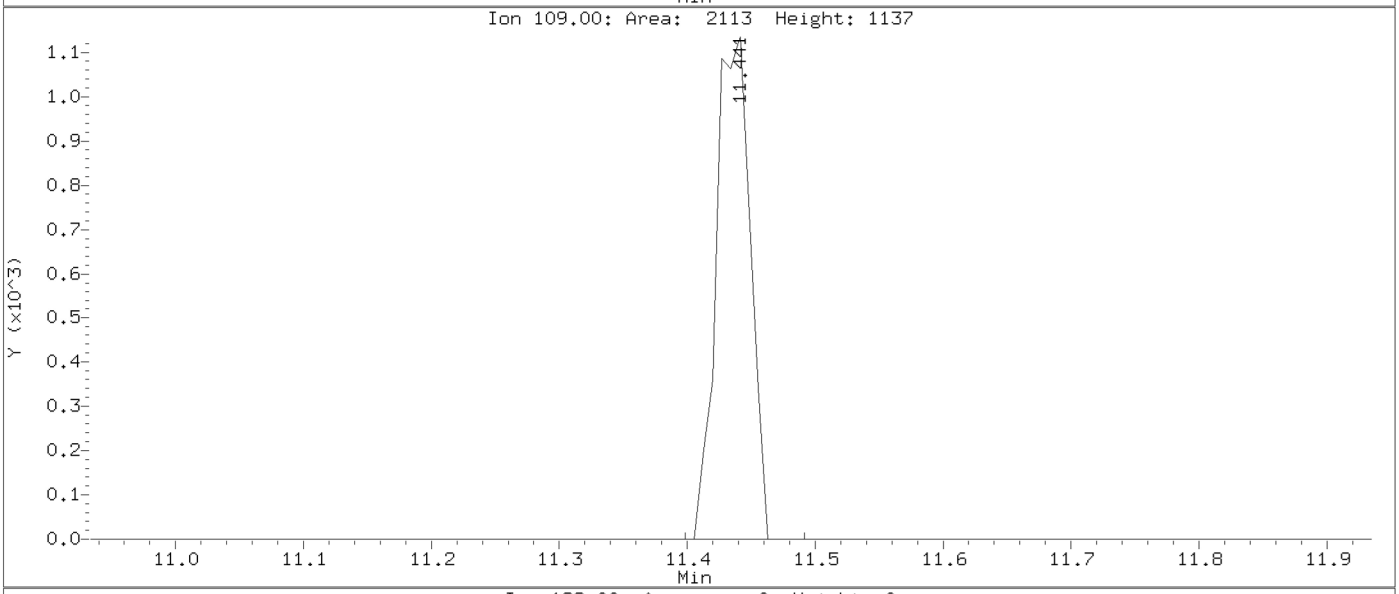


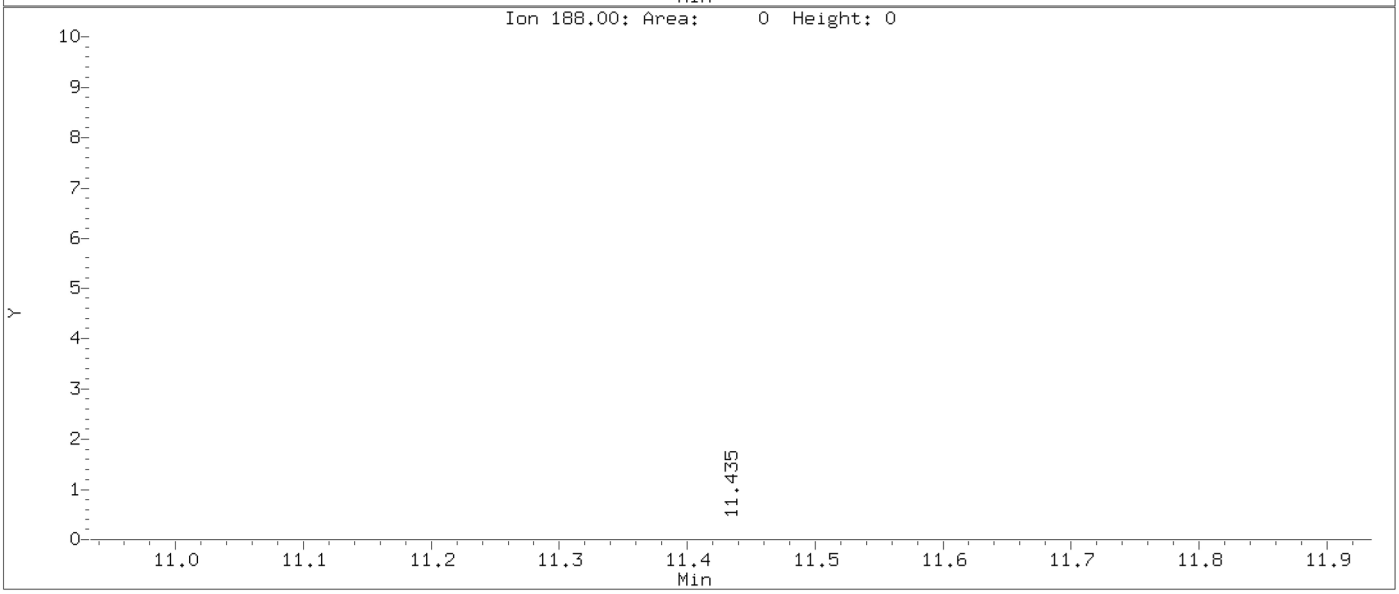
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Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

AFTER MANUAL INTEGRATION



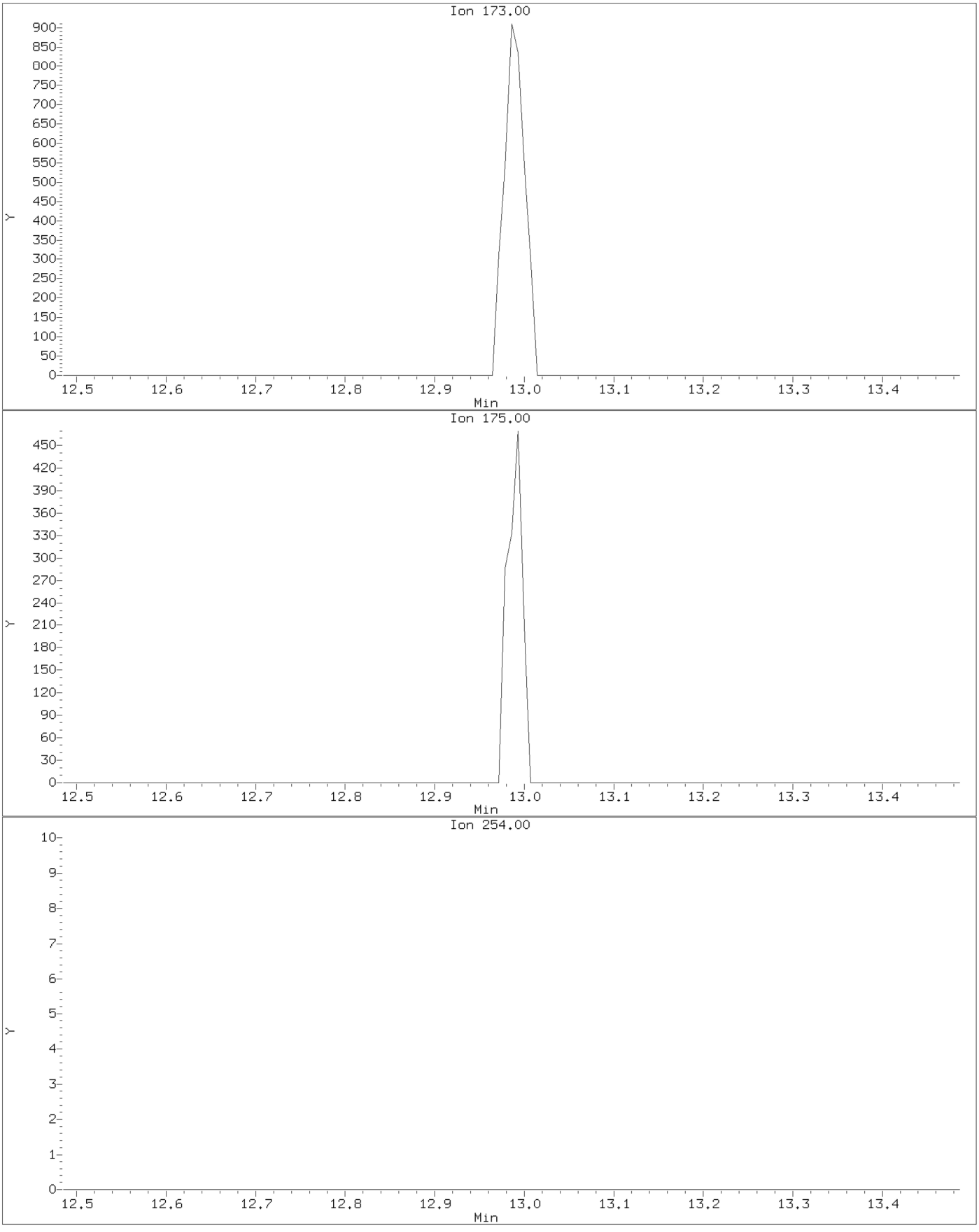




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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2

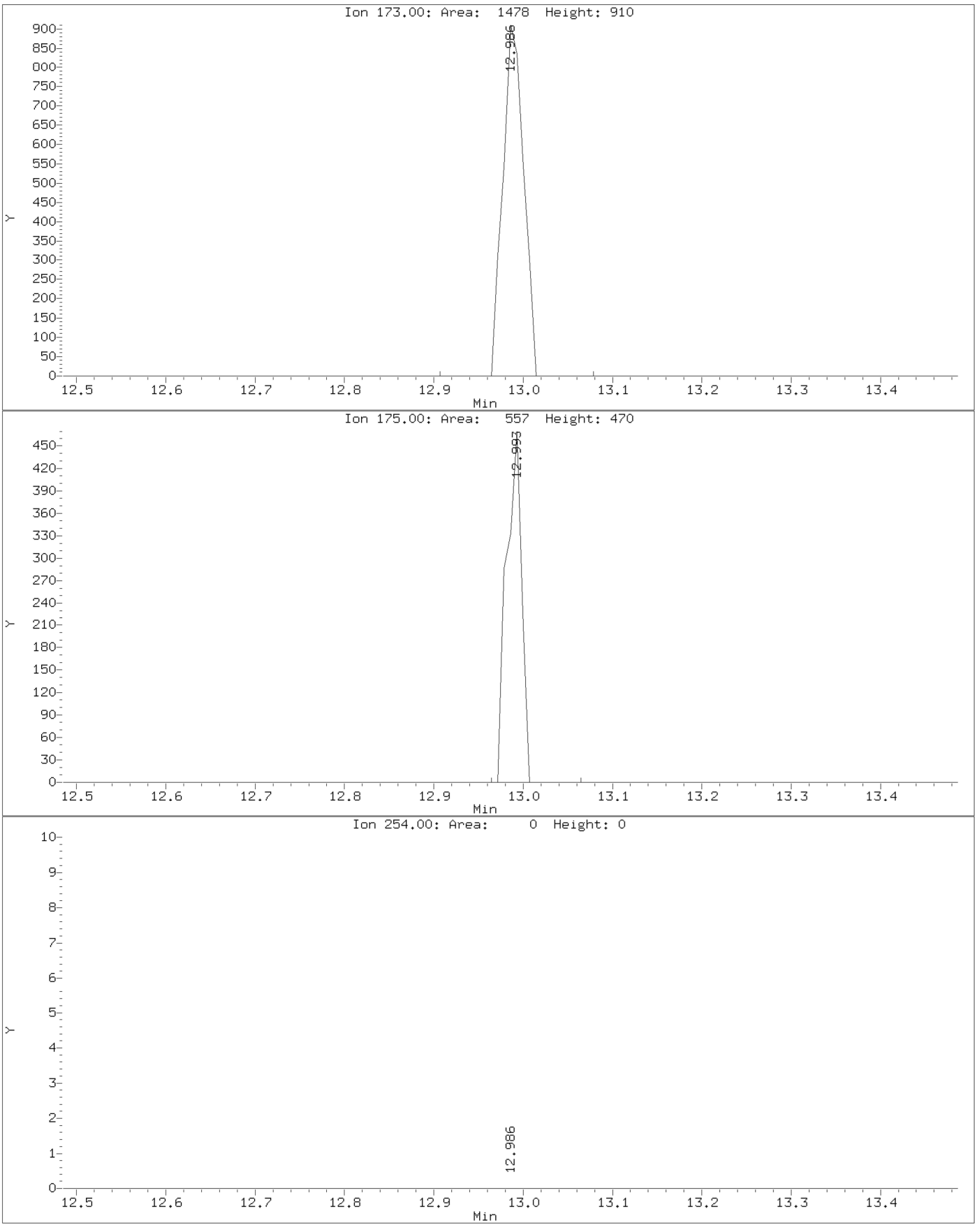
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Instrument: gcms-d.i
Client Sample ID:

Compound: Bromoform
CAS Number: 75-25-2

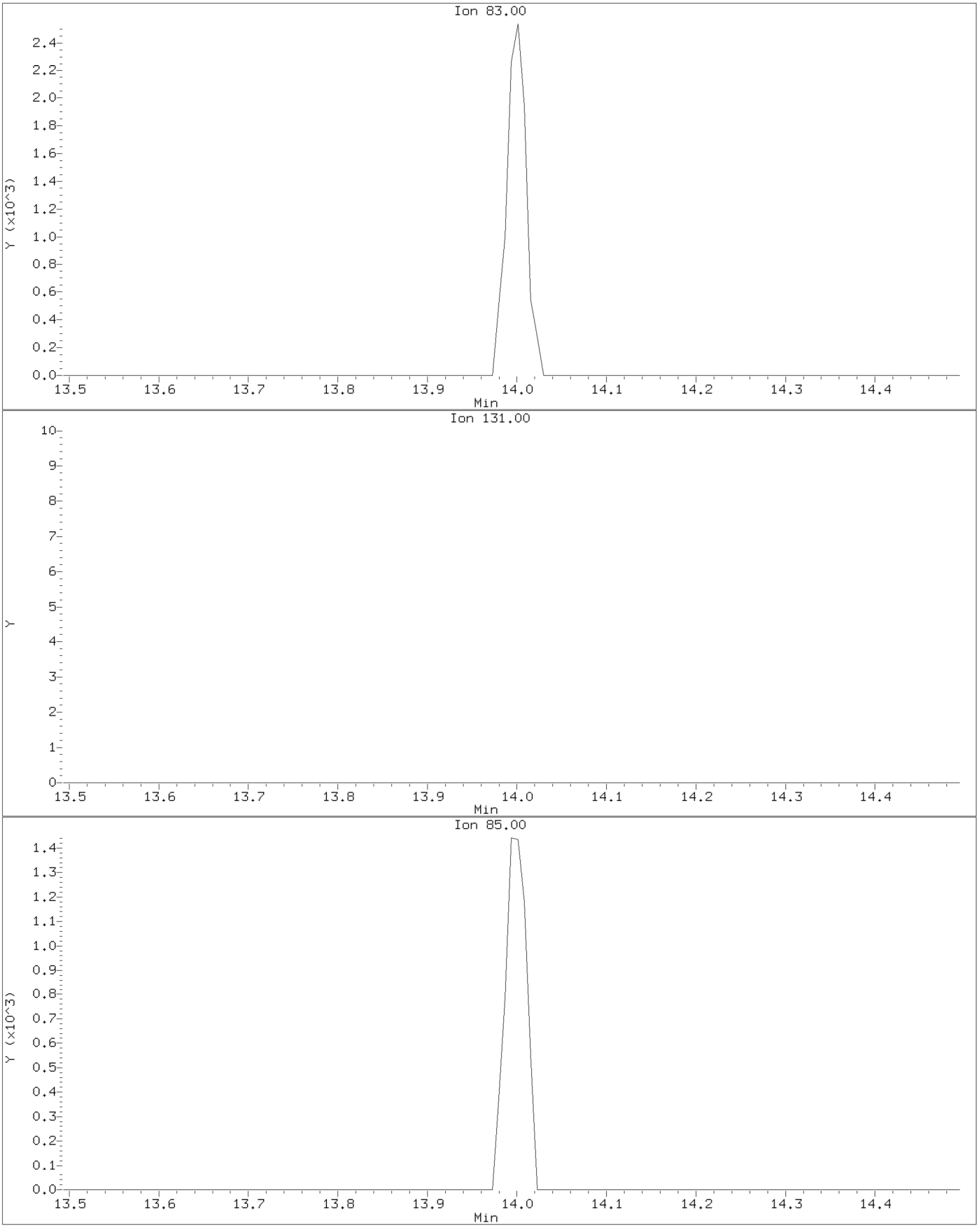
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Instrument: gcms-d.i
Client Sample ID:

Compound: 1,1,2,2-Tetrachloroethane
CAS Number: 79-34-5

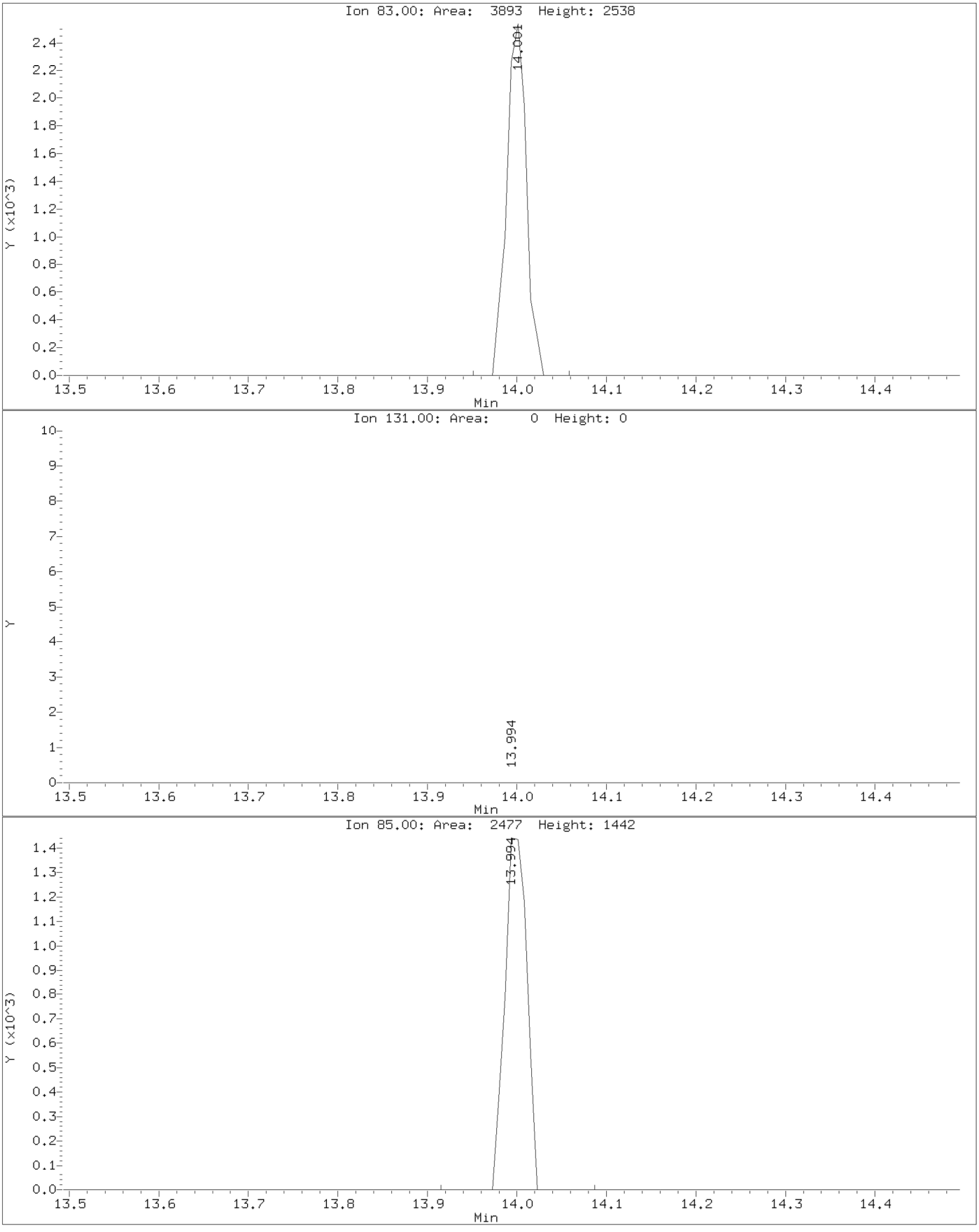
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Client Sample ID:

Compound: 1,1,2,2-Tetrachloroethane
CAS Number: 79-34-5

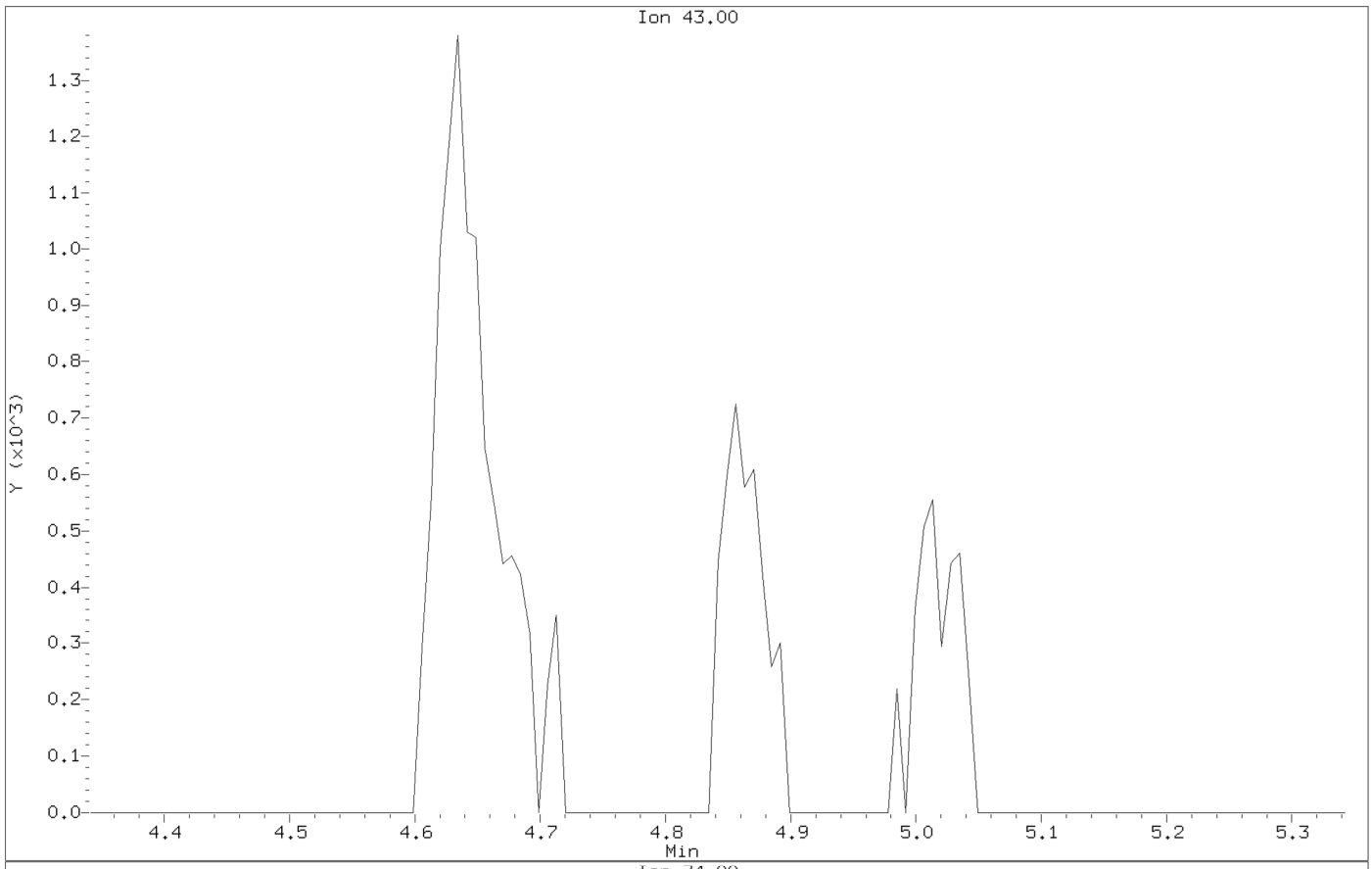
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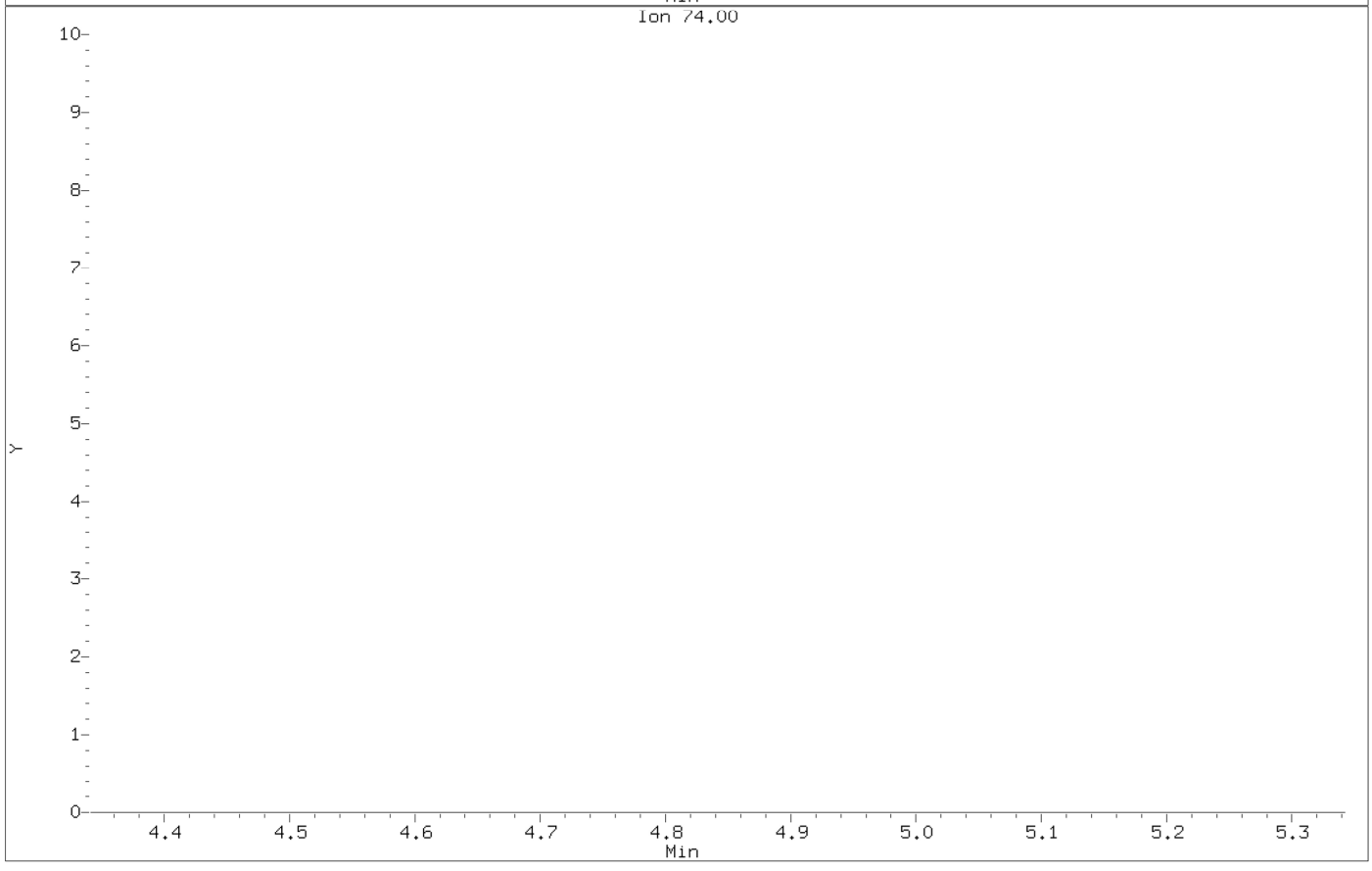


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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID:

Compound: Methyl Acetate
CAS Number: 79-20-9

BEFORE MANUAL INTEGRATION

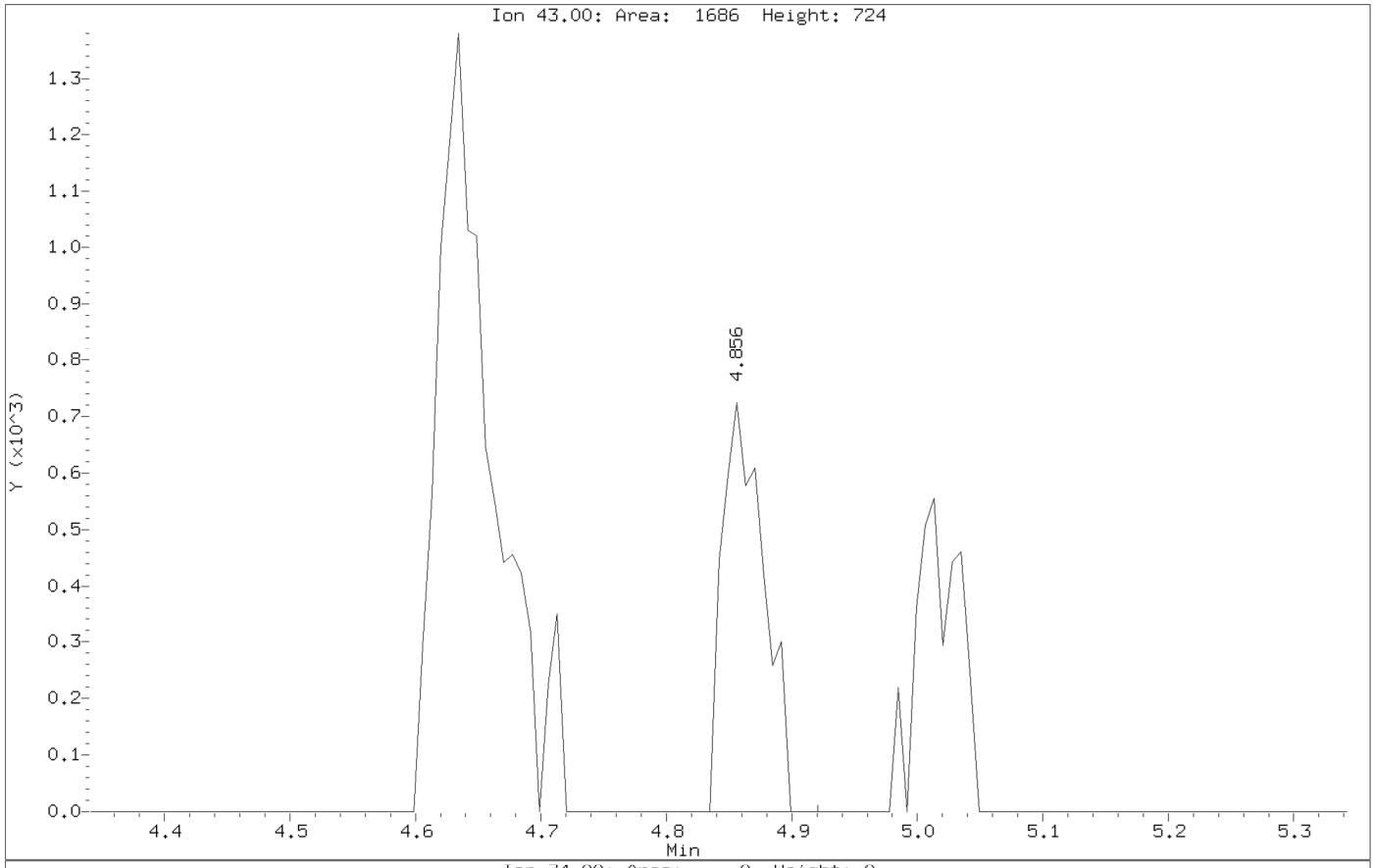


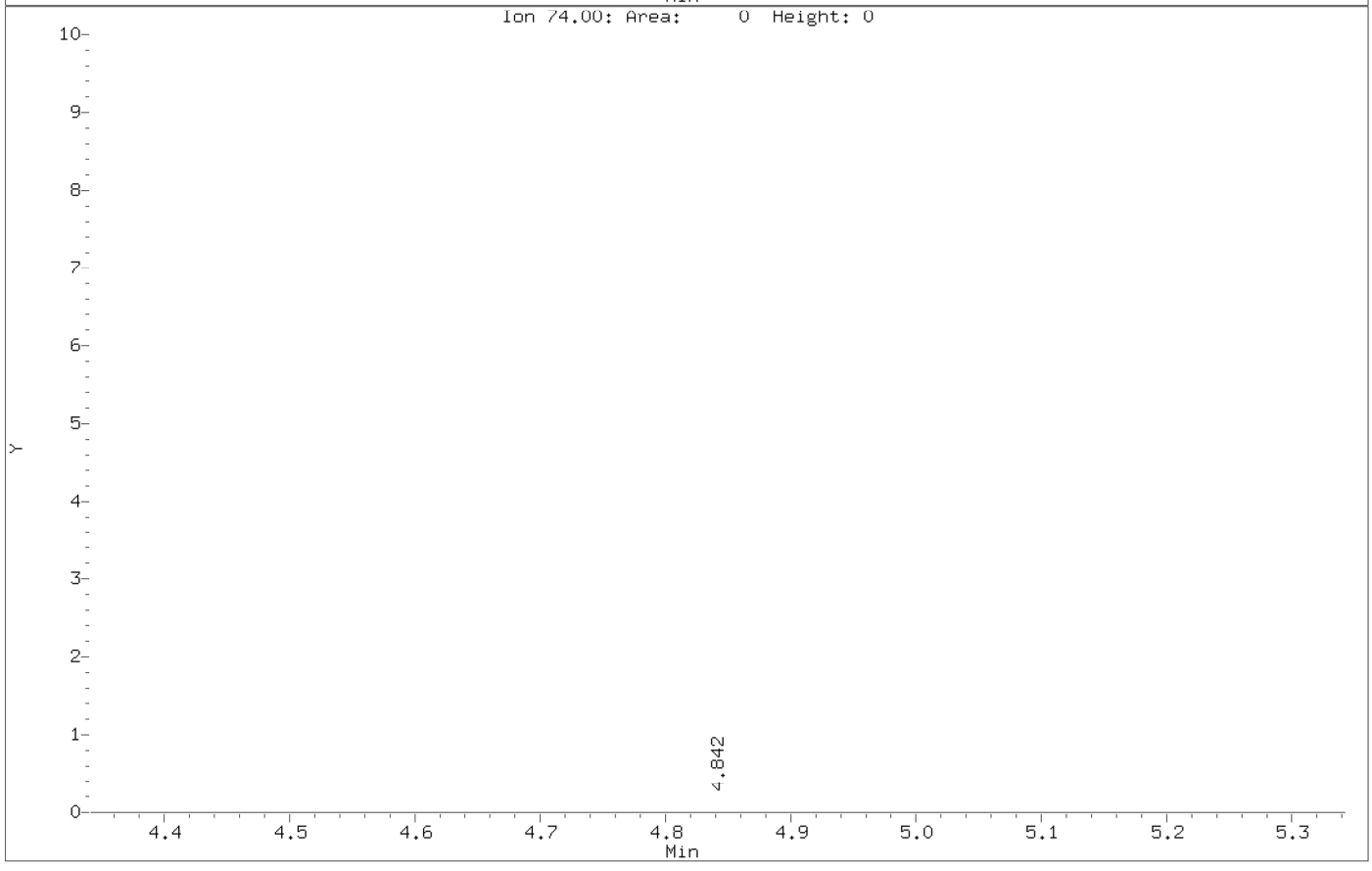


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Instrument: gcms-d.i
Client Sample ID:

Compound: Methyl Acetate
CAS Number: 79-20-9

AFTER MANUAL INTEGRATION

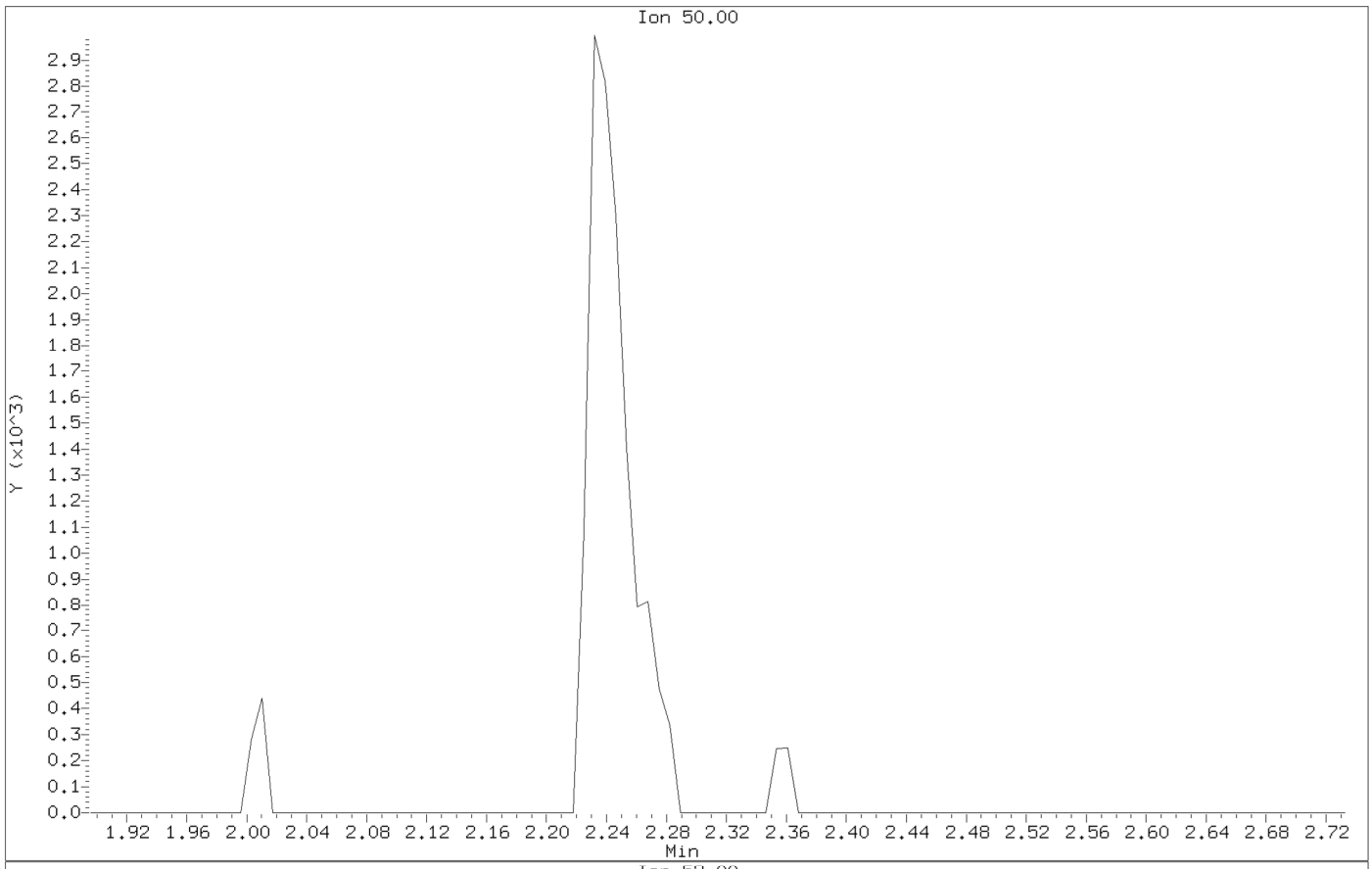


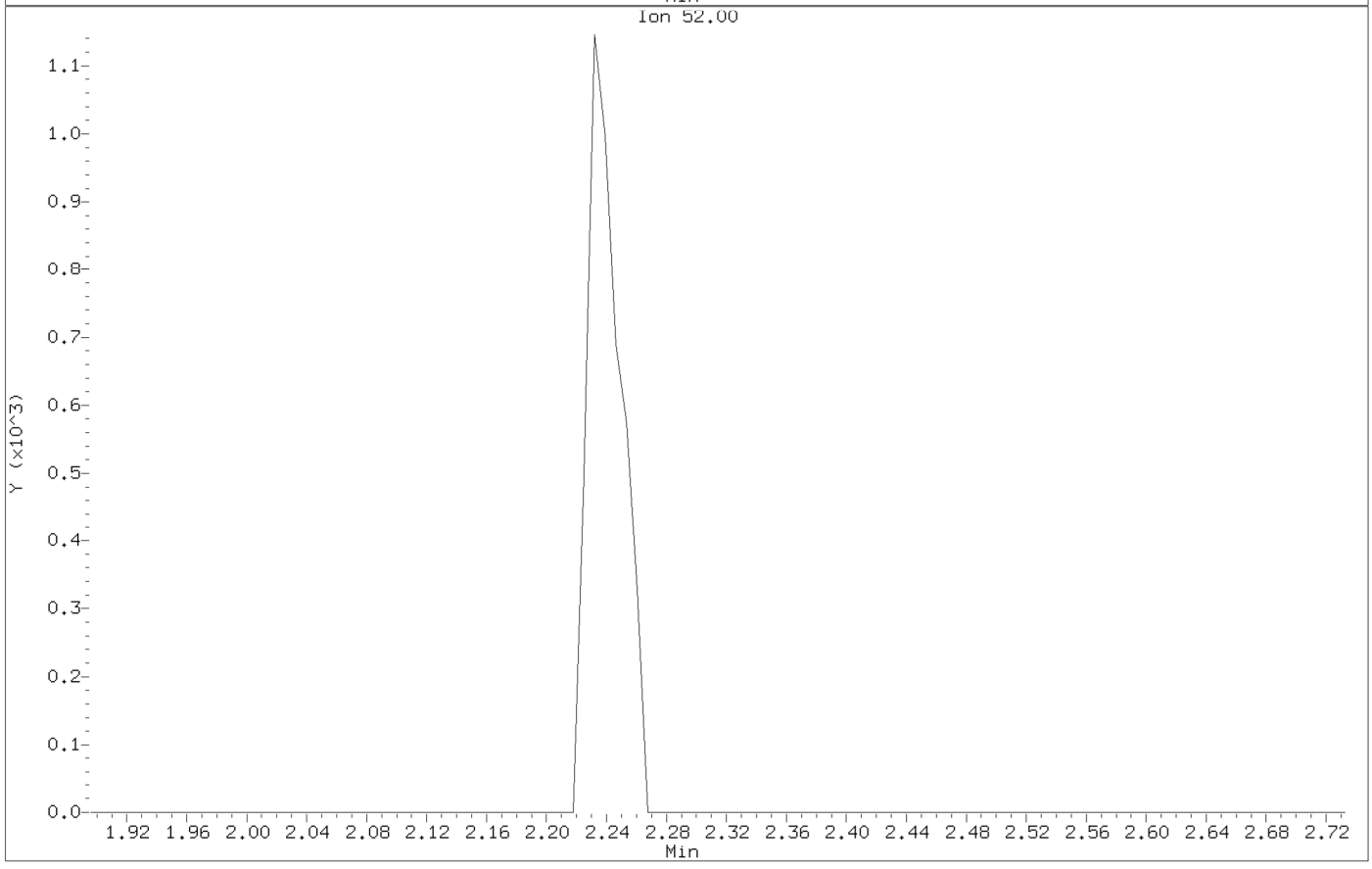


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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: Chloromethane
CAS Number: 74-87-3

BEFORE MANUAL INTEGRATION

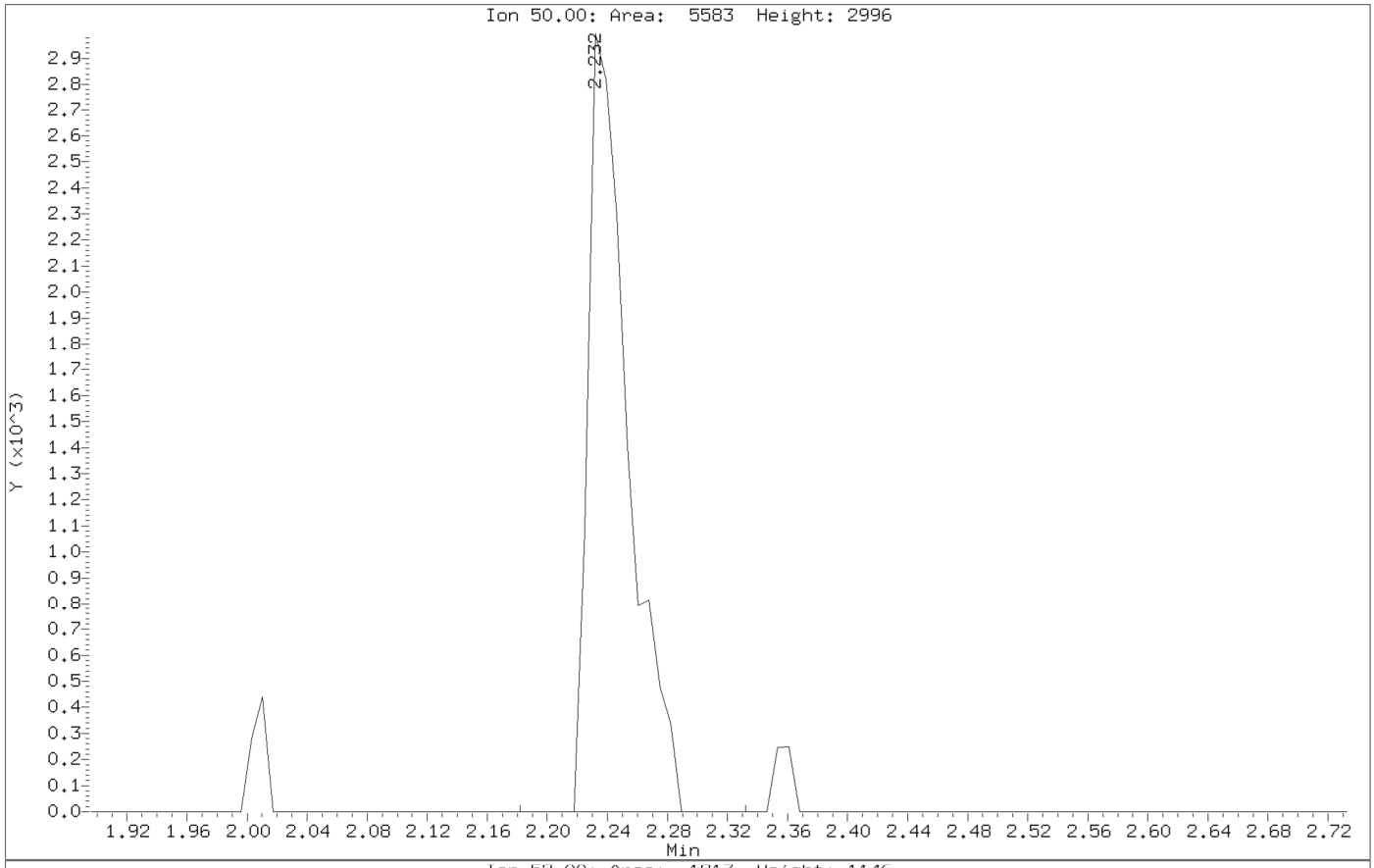


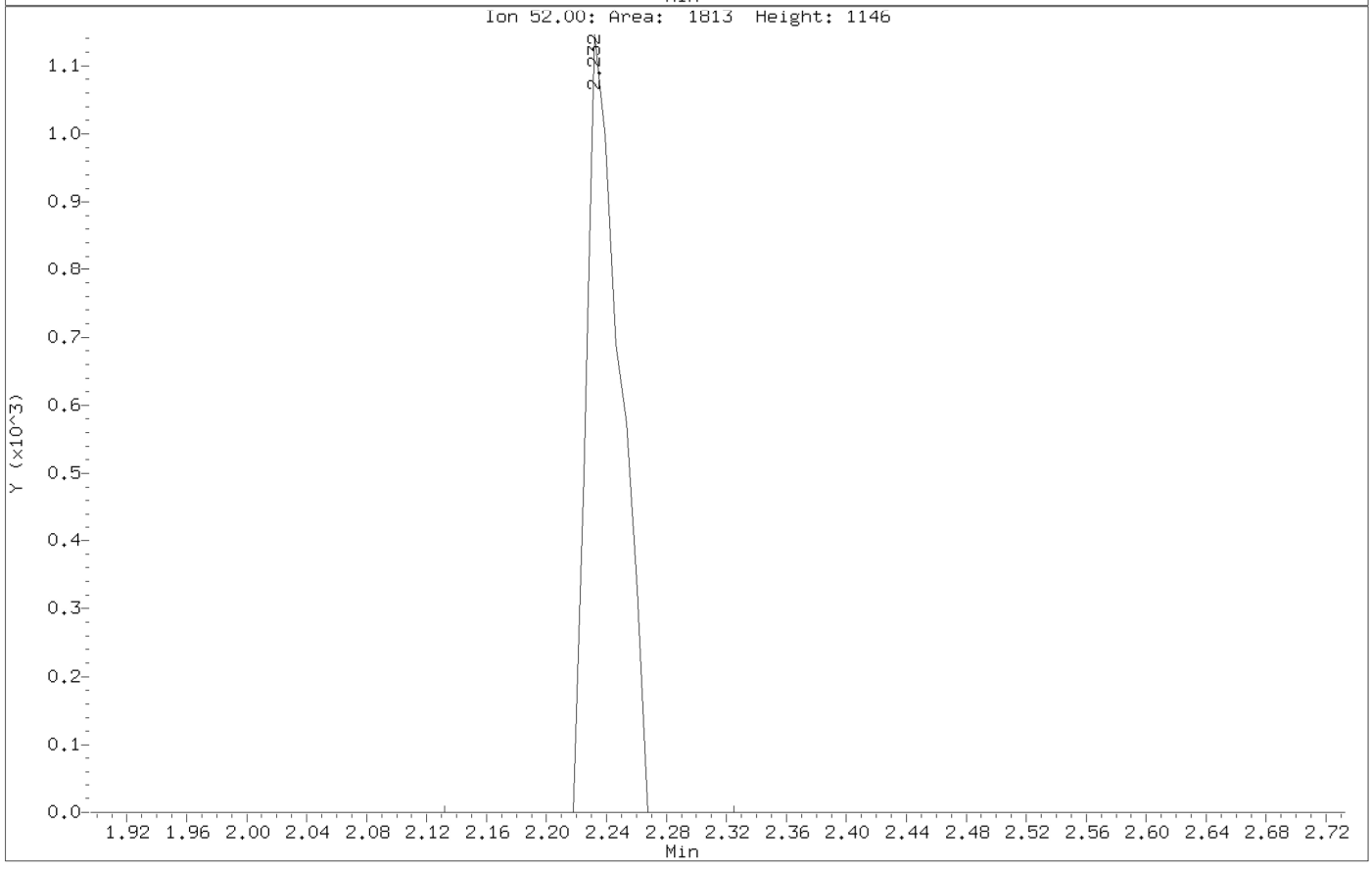


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Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: Chloromethane
CAS Number: 74-87-3

AFTER MANUAL INTEGRATION

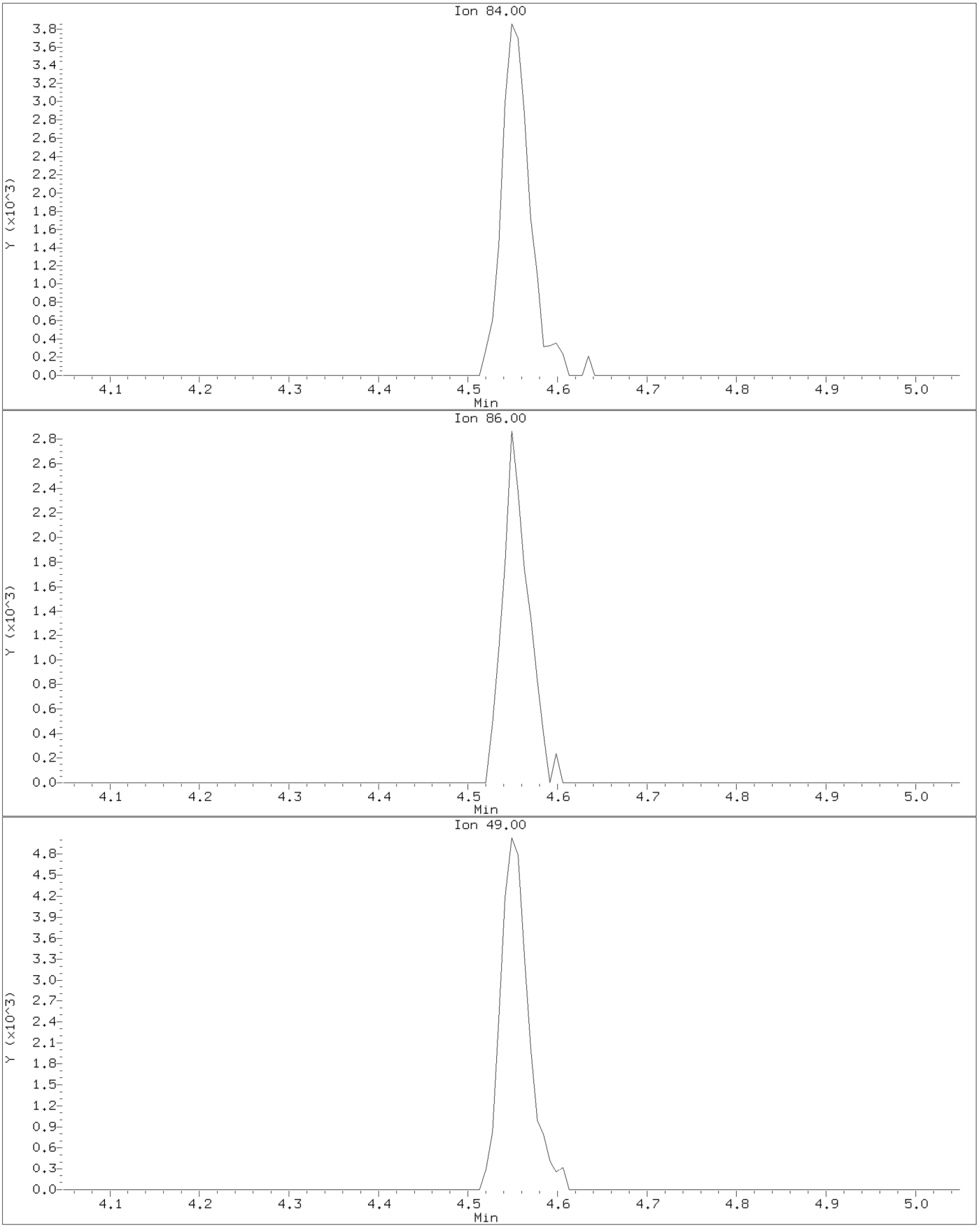




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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: Methylene Chloride
CAS Number: 75-09-2

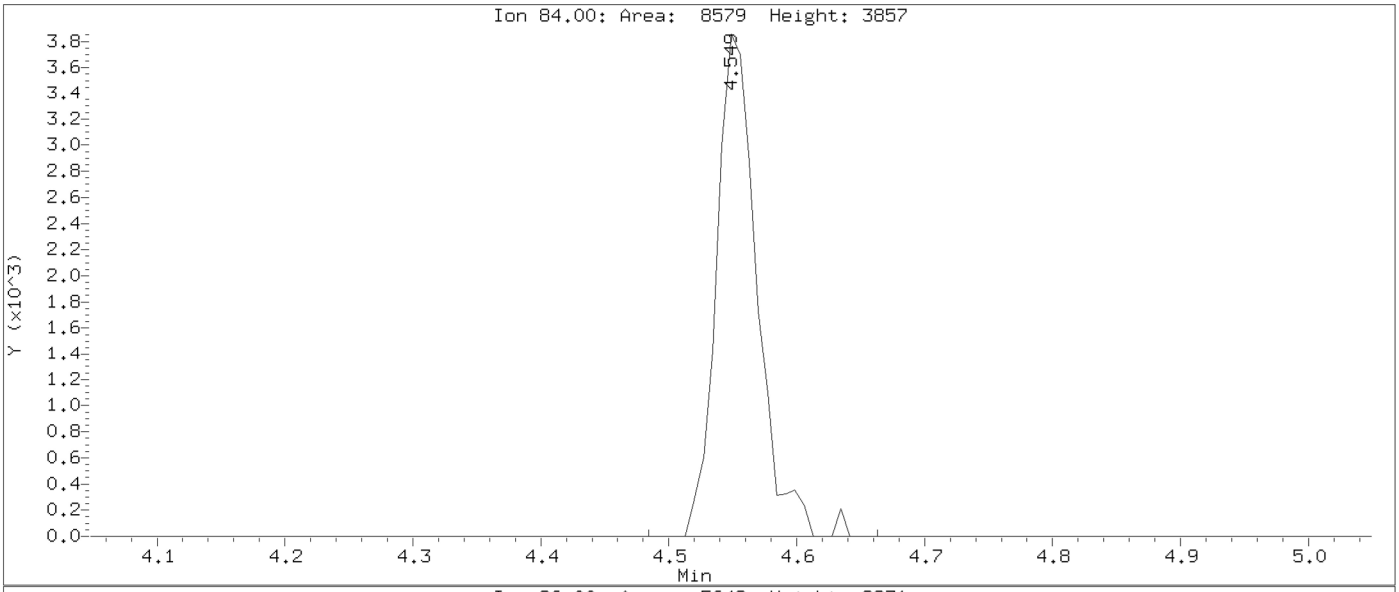
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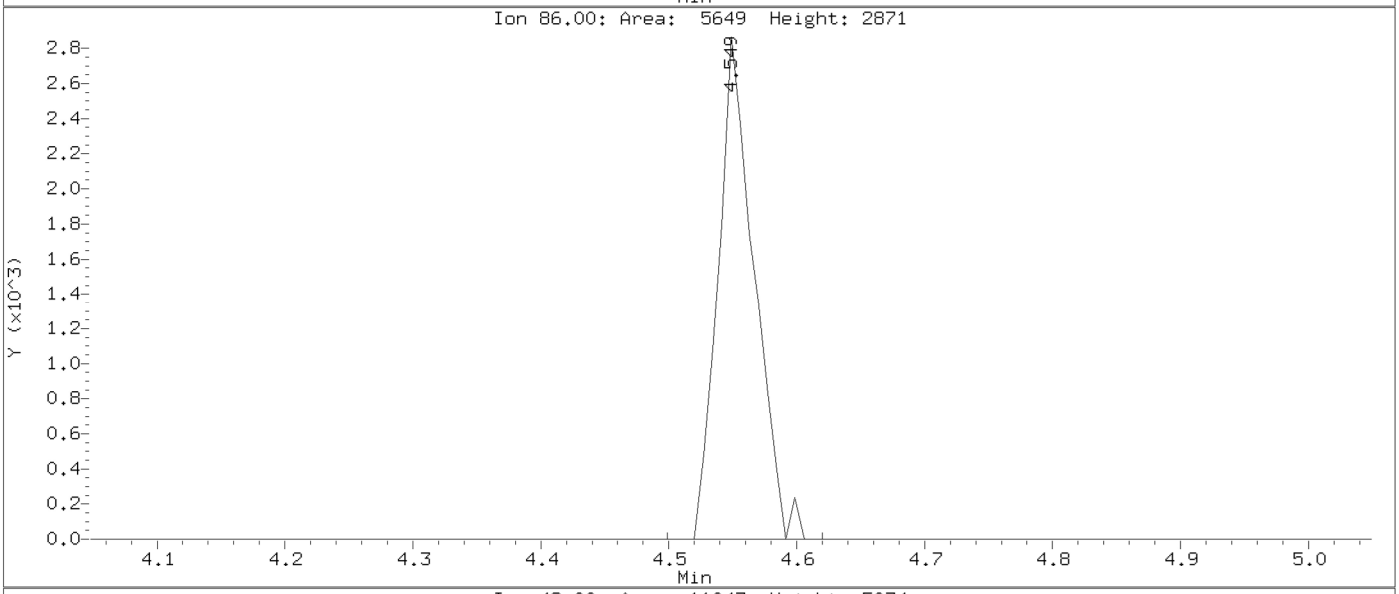


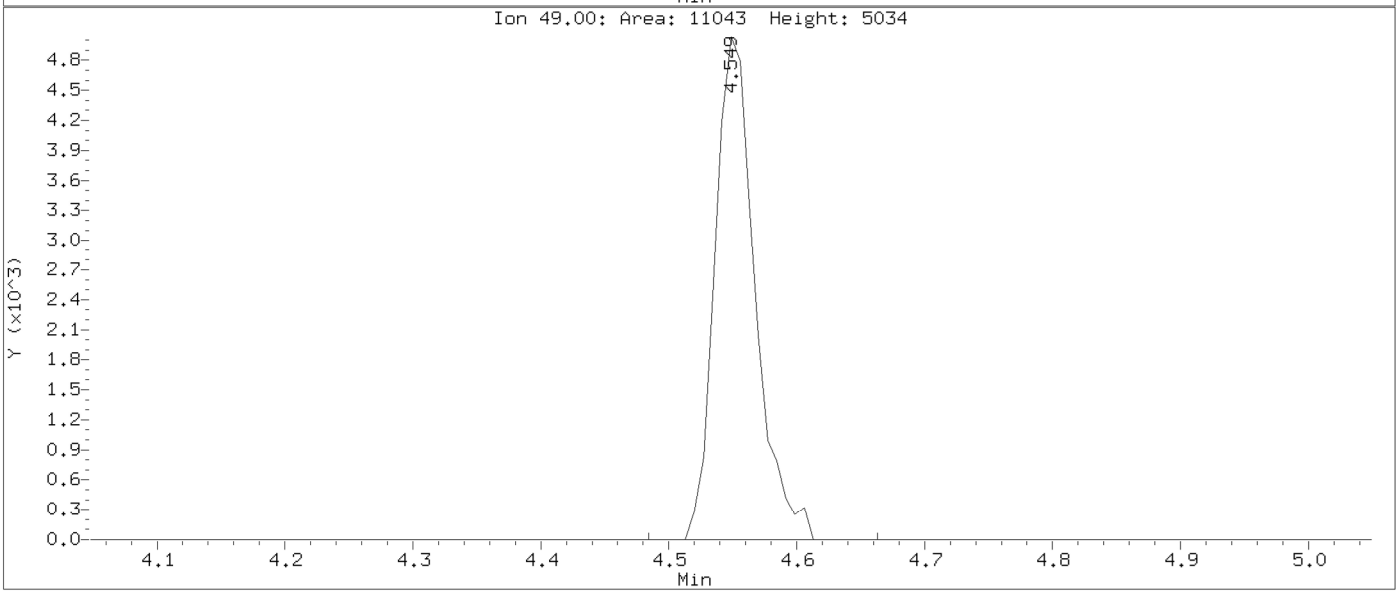
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Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: Methylene Chloride
CAS Number: 75-09-2

AFTER MANUAL INTEGRATION



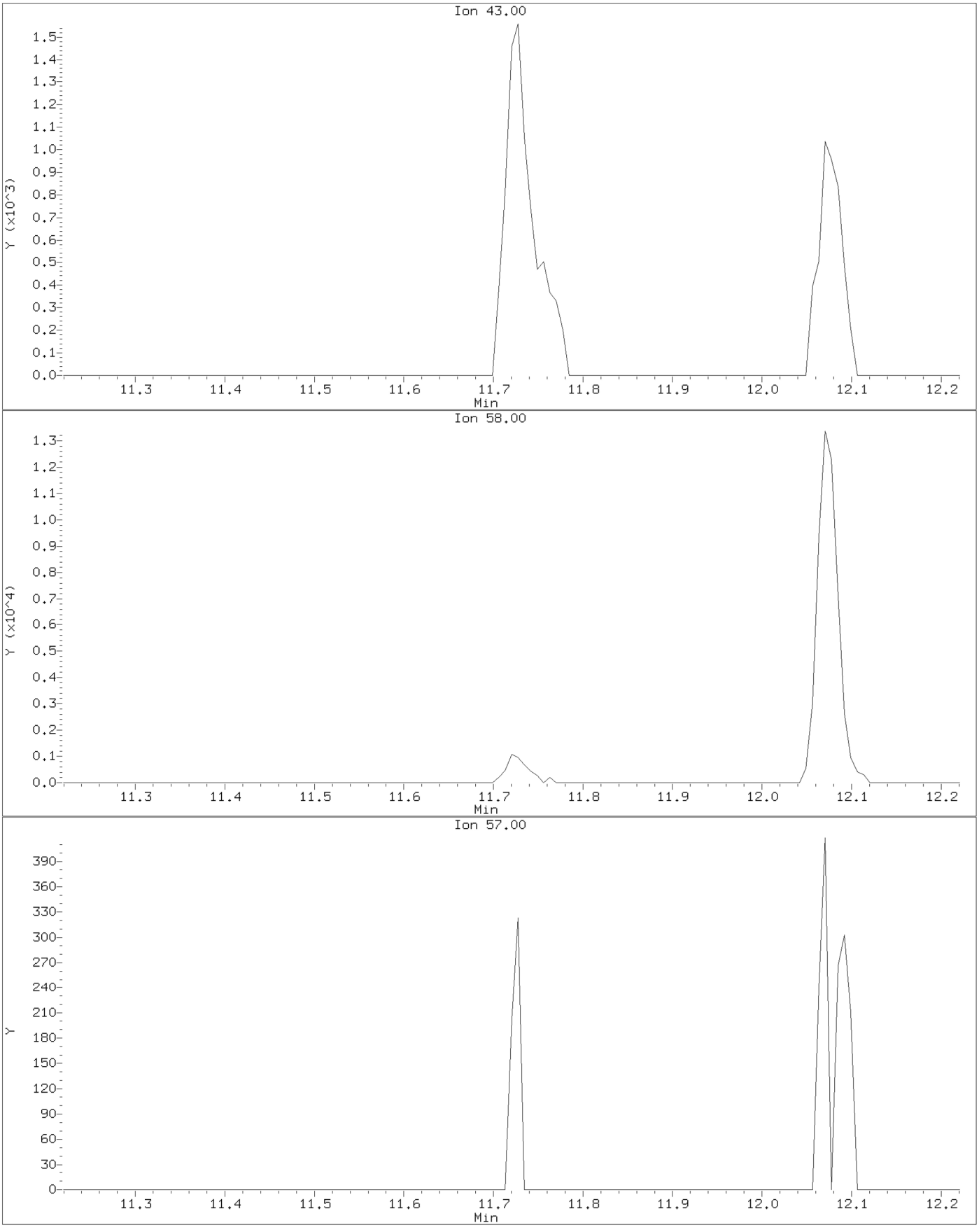




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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: 2-Hexanone
CAS Number: 591-78-6

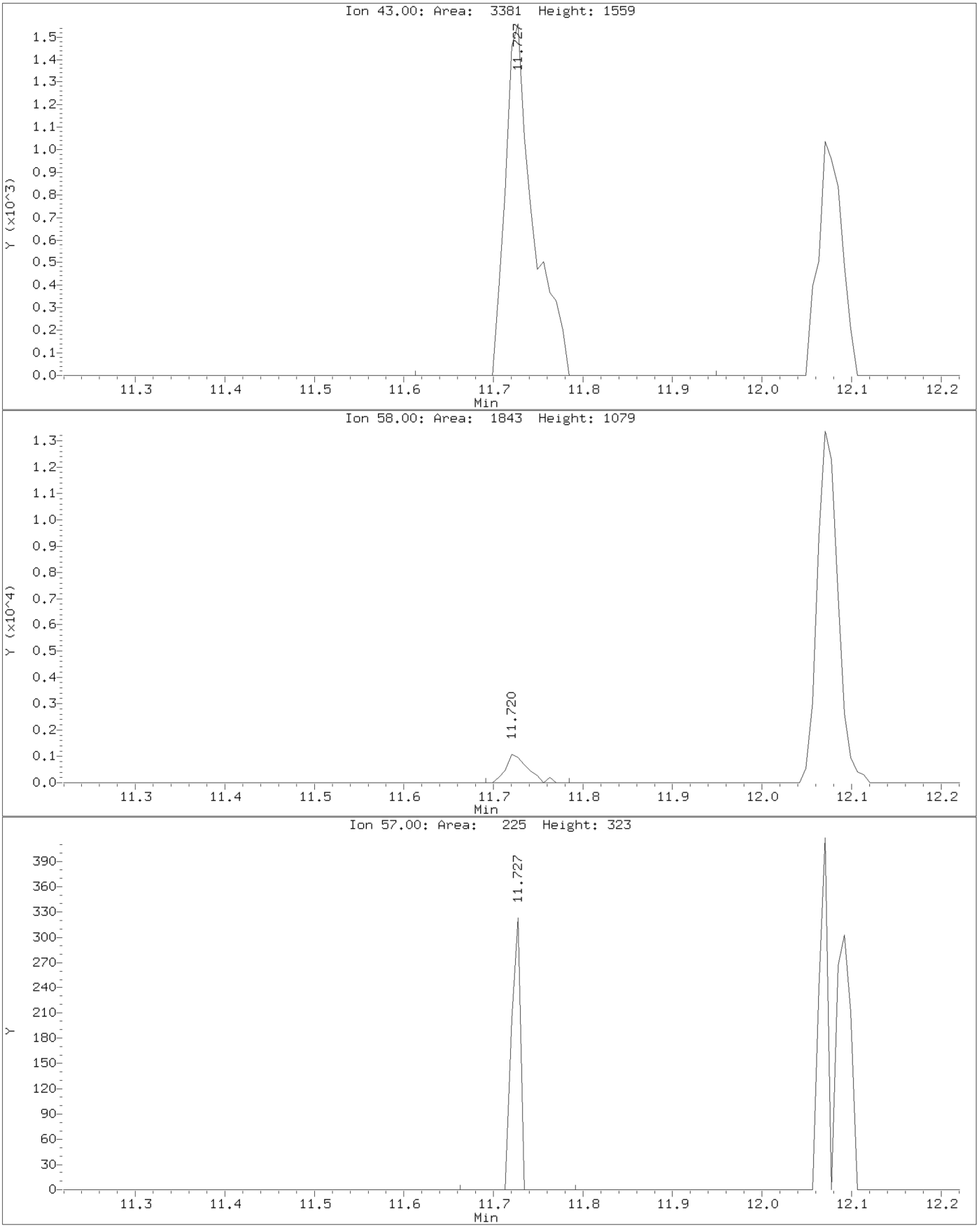
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Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: 2-Hexanone
CAS Number: 591-78-6

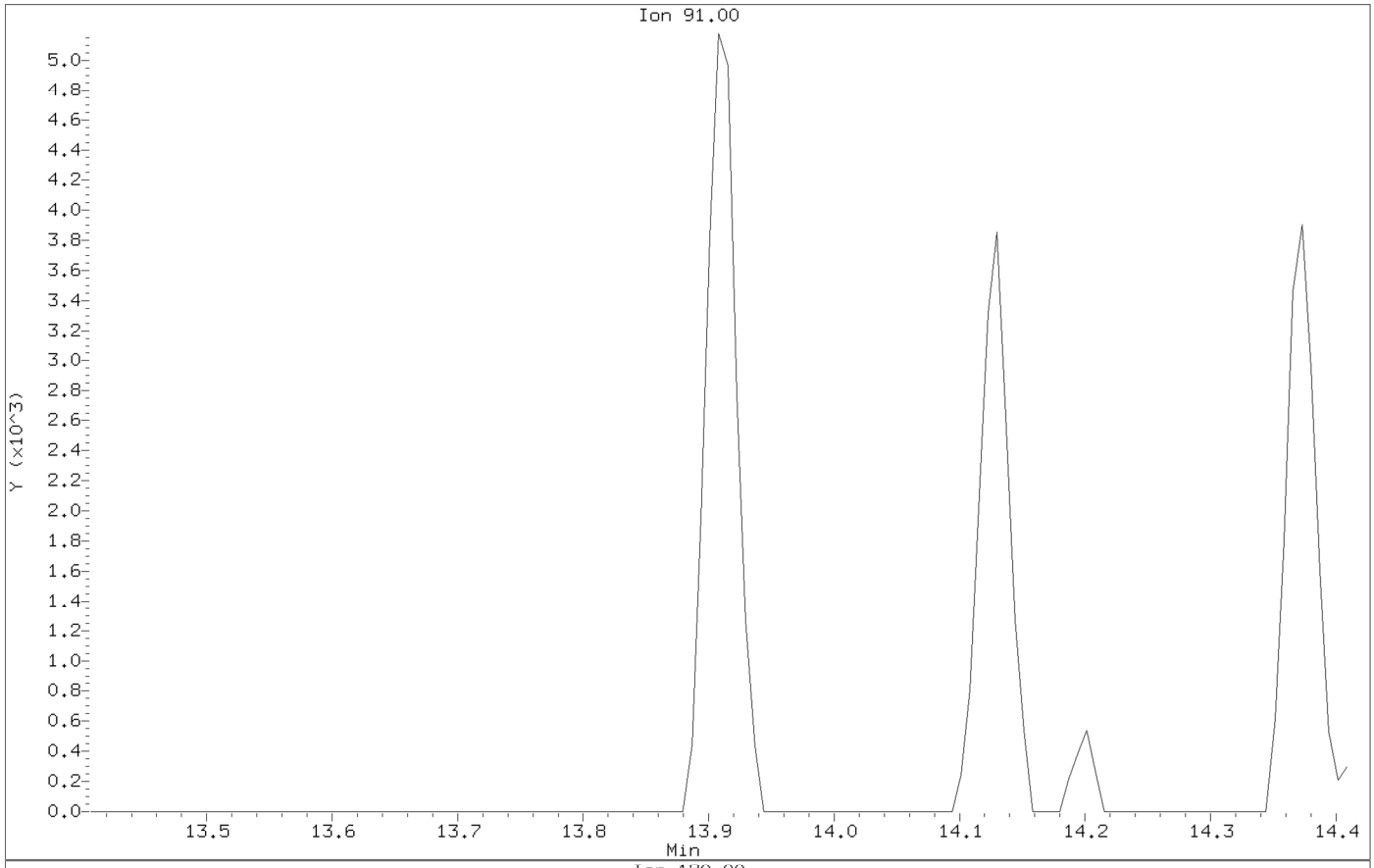
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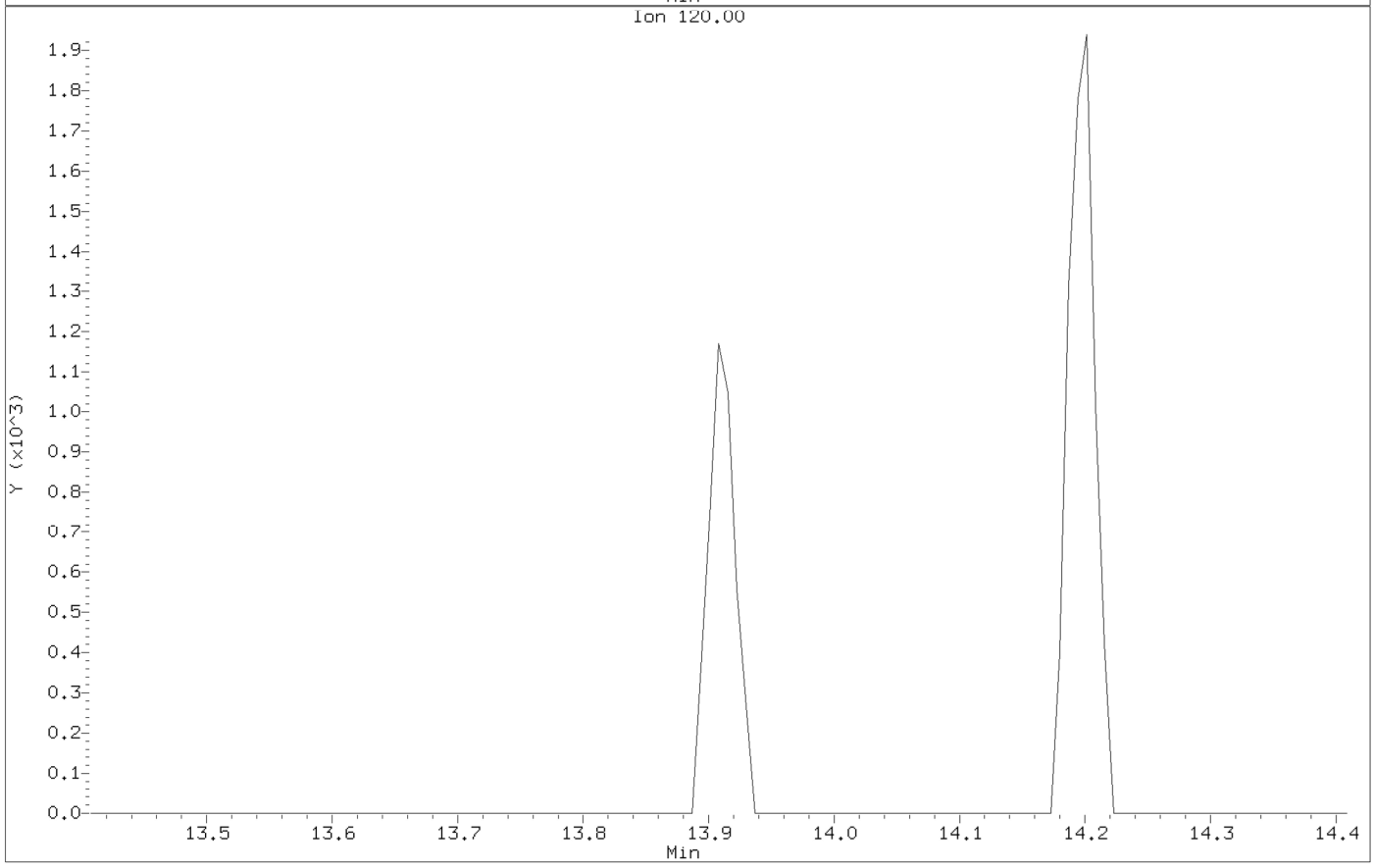


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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: N-Propylbenzene
CAS Number: 103-65-1

BEFORE MANUAL INTEGRATION

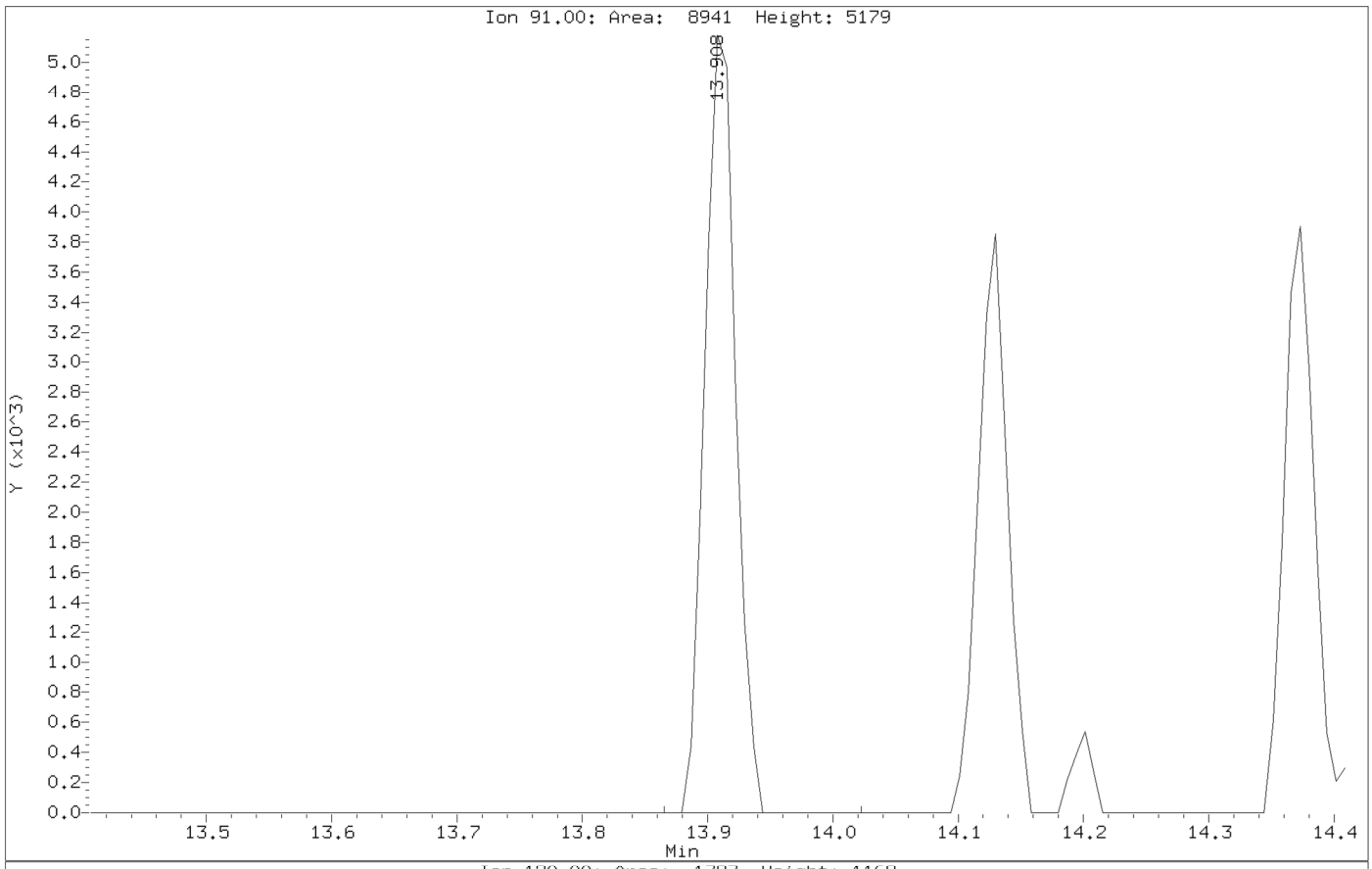


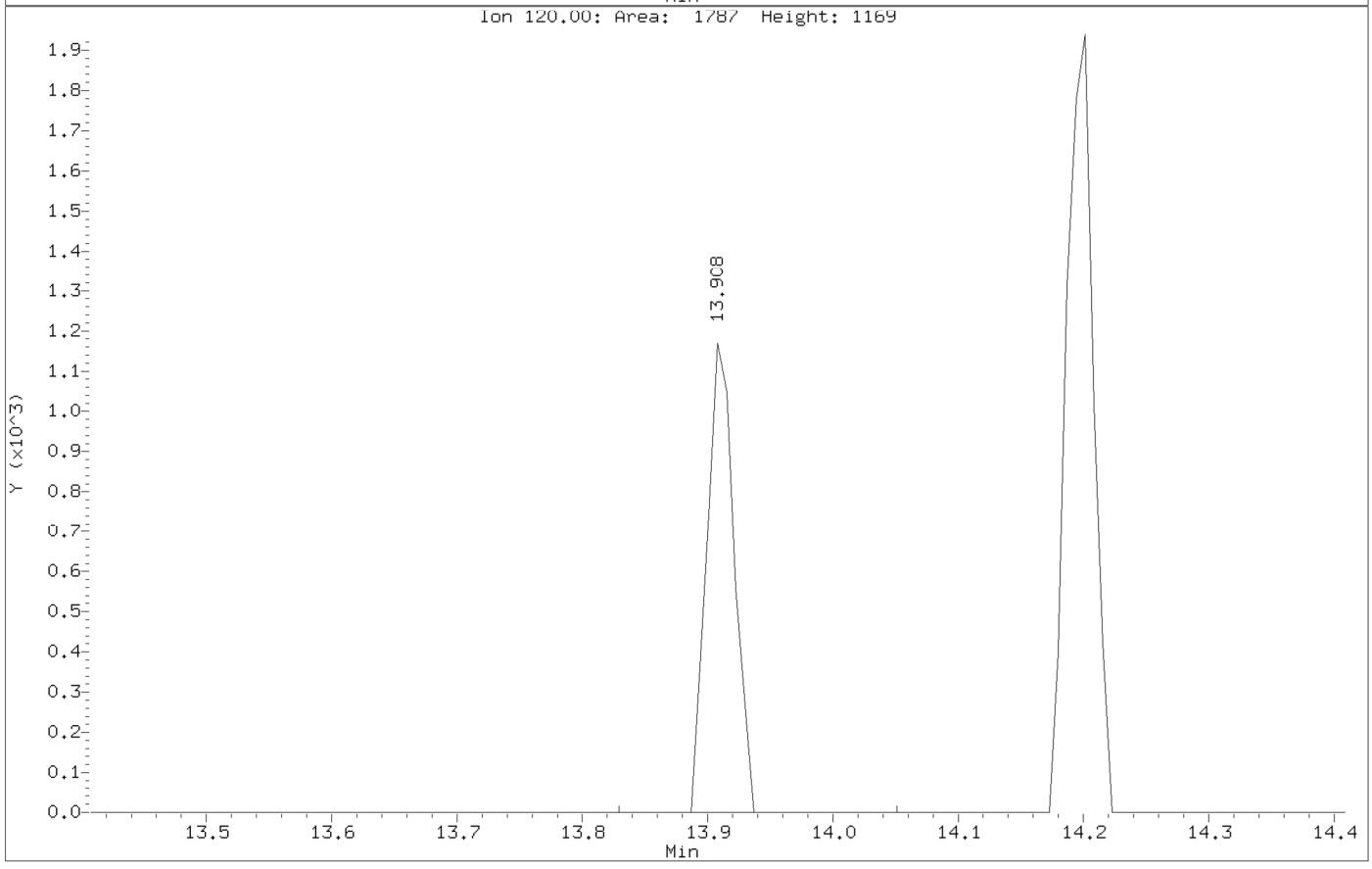


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Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: N-Propylbenzene
CAS Number: 103-65-1

AFTER MANUAL INTEGRATION

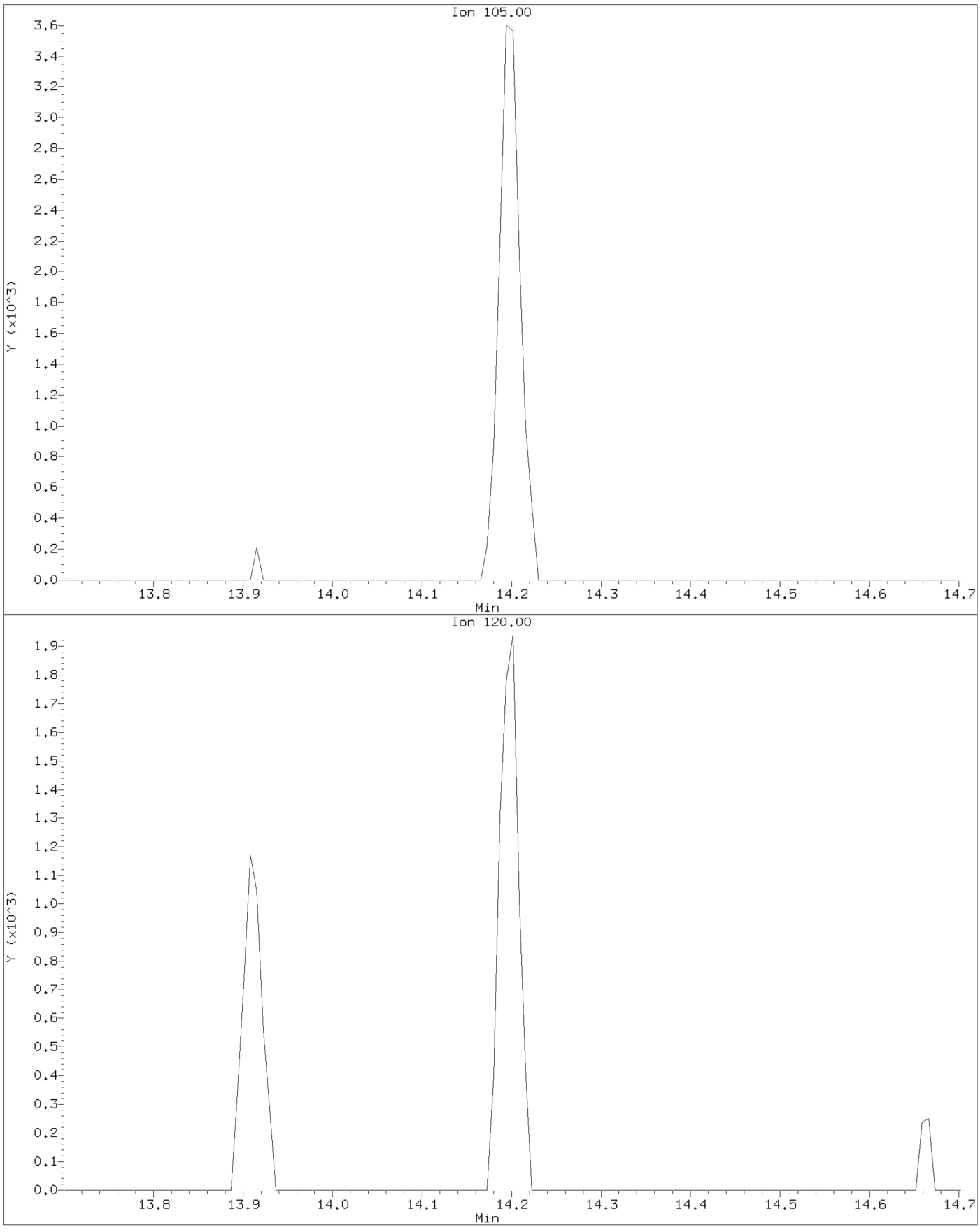




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Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8

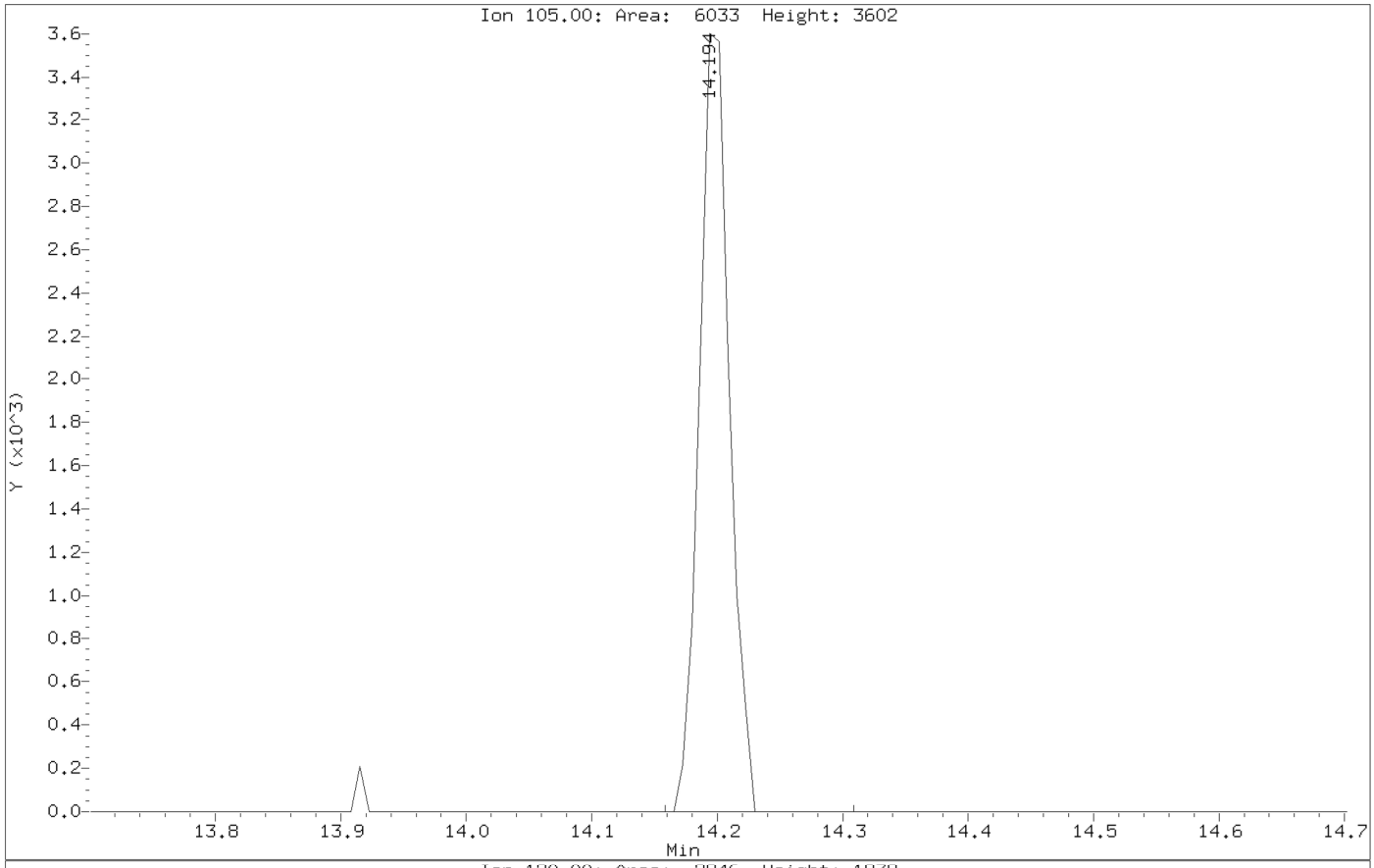
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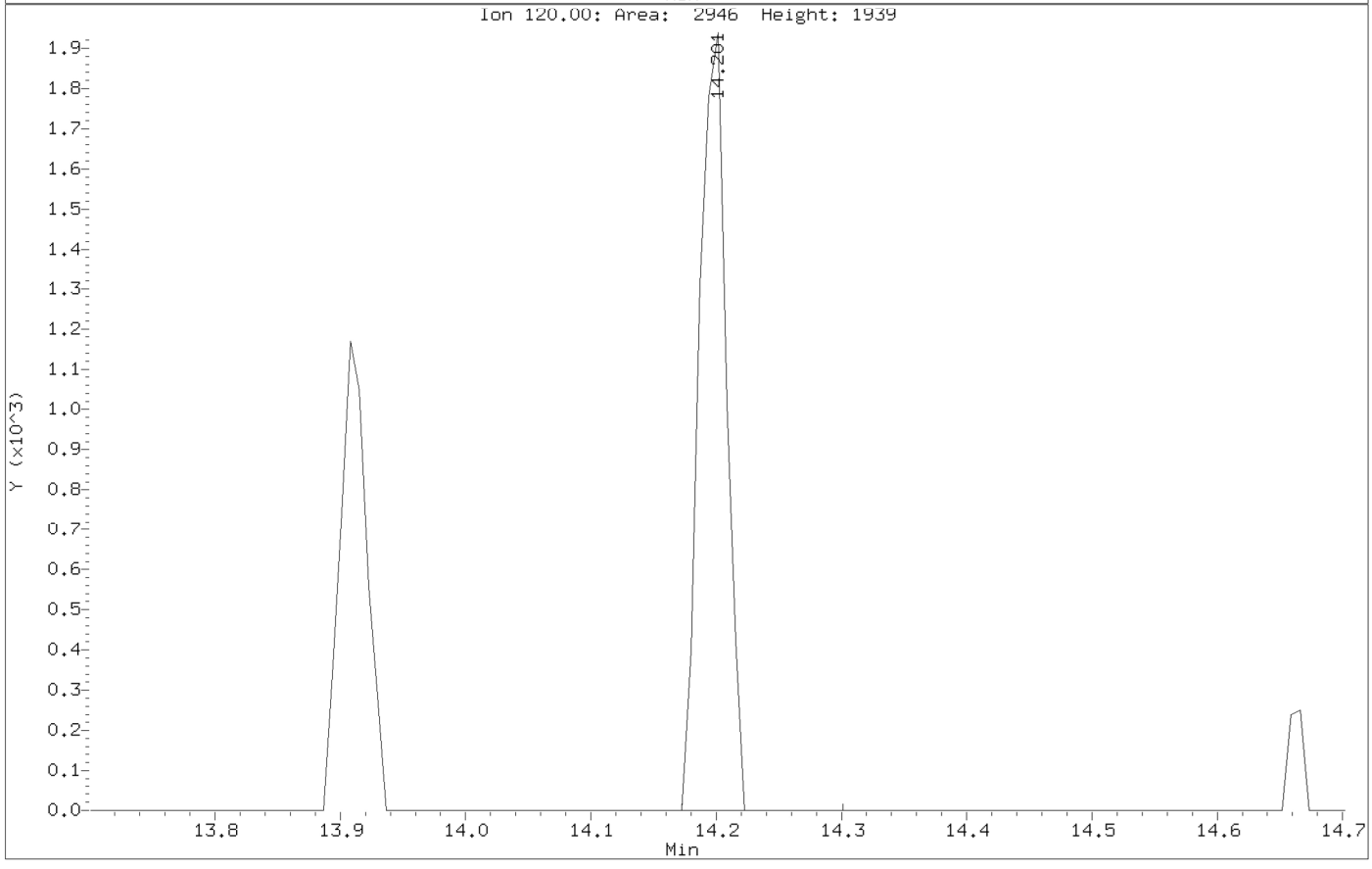


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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: 1,3,5-Trimethylbenzene
CAS Number: 108-67-8

AFTER MANUAL INTEGRATION

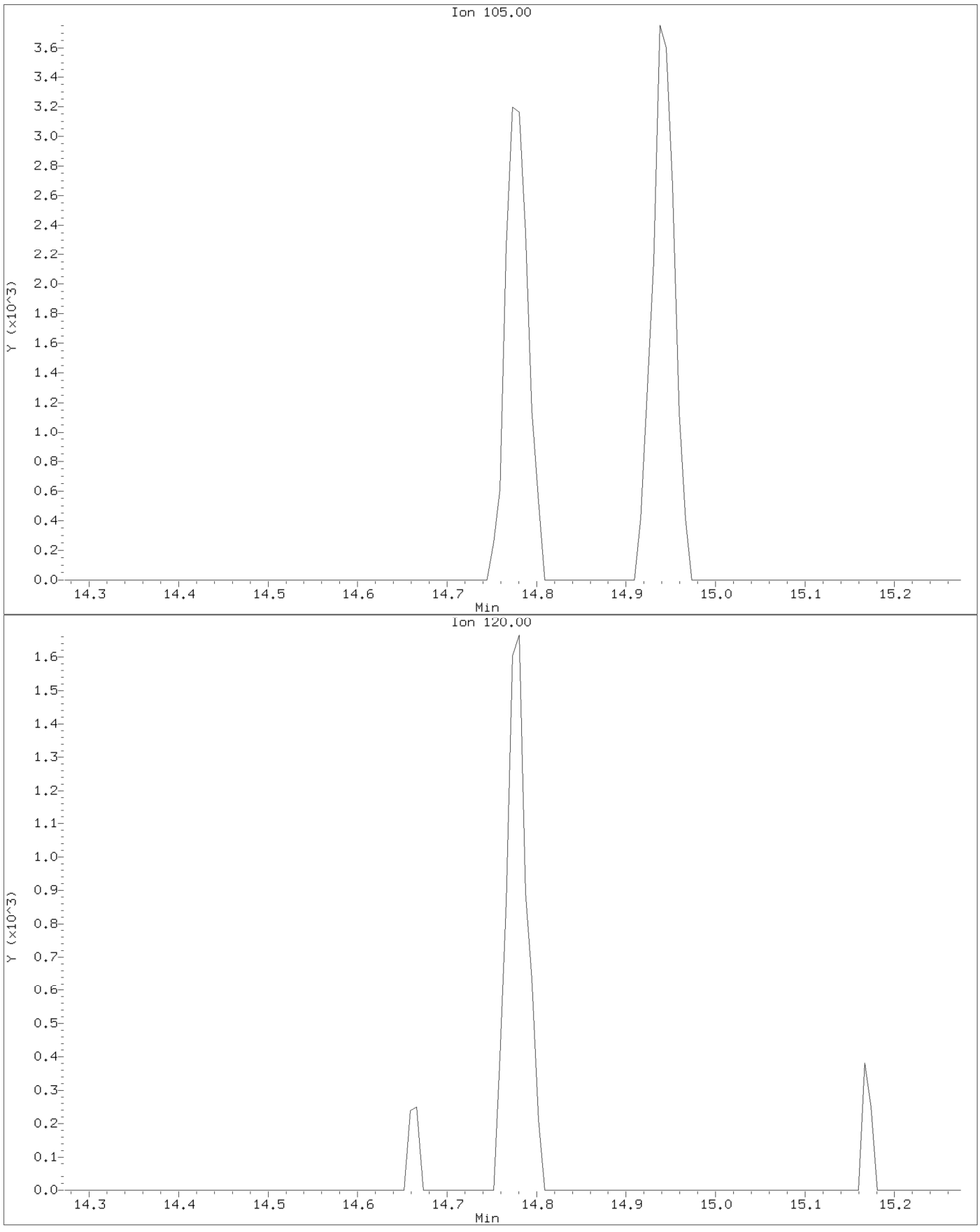




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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: 1,2,4-Trimethylbenzene
CAS Number: 95-63-6

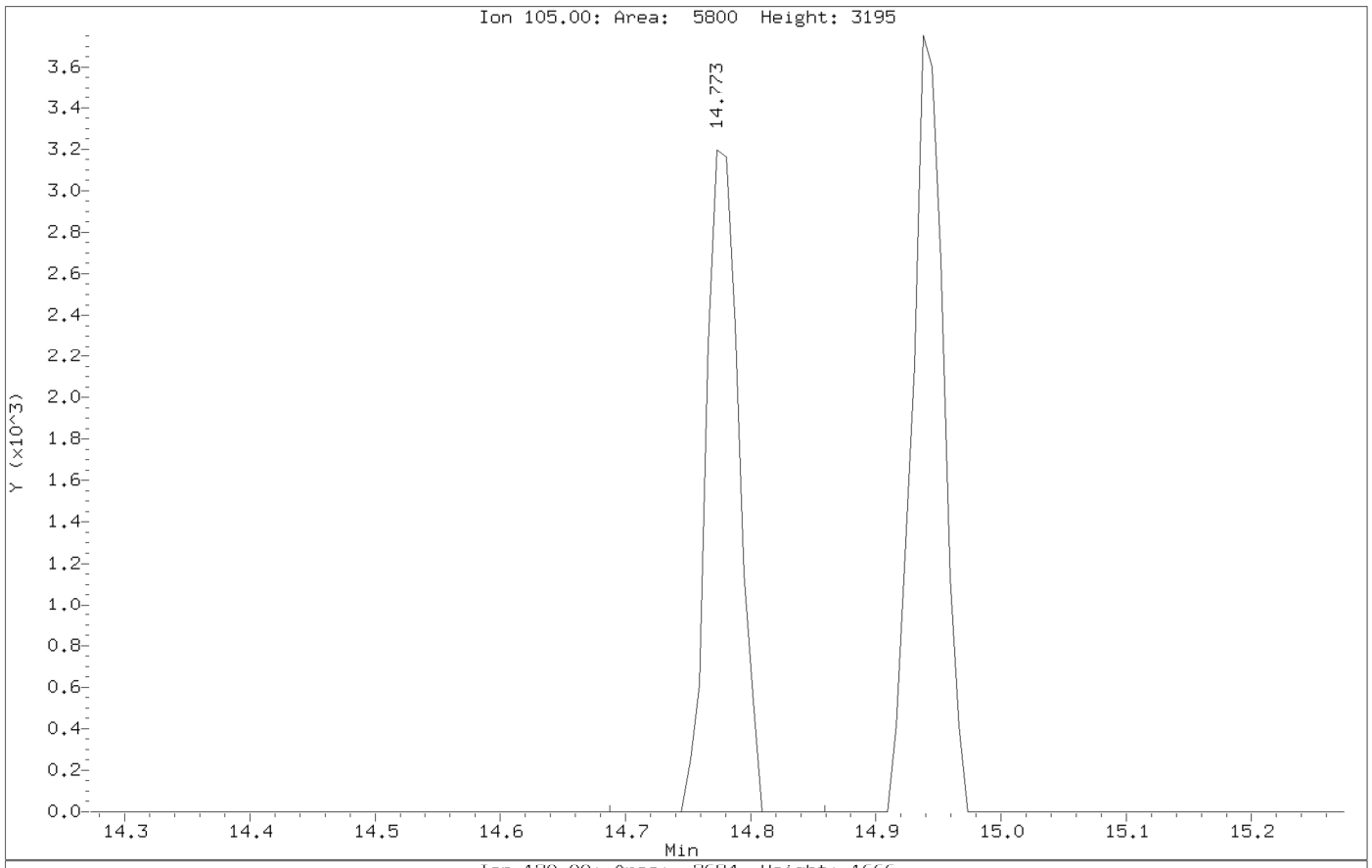
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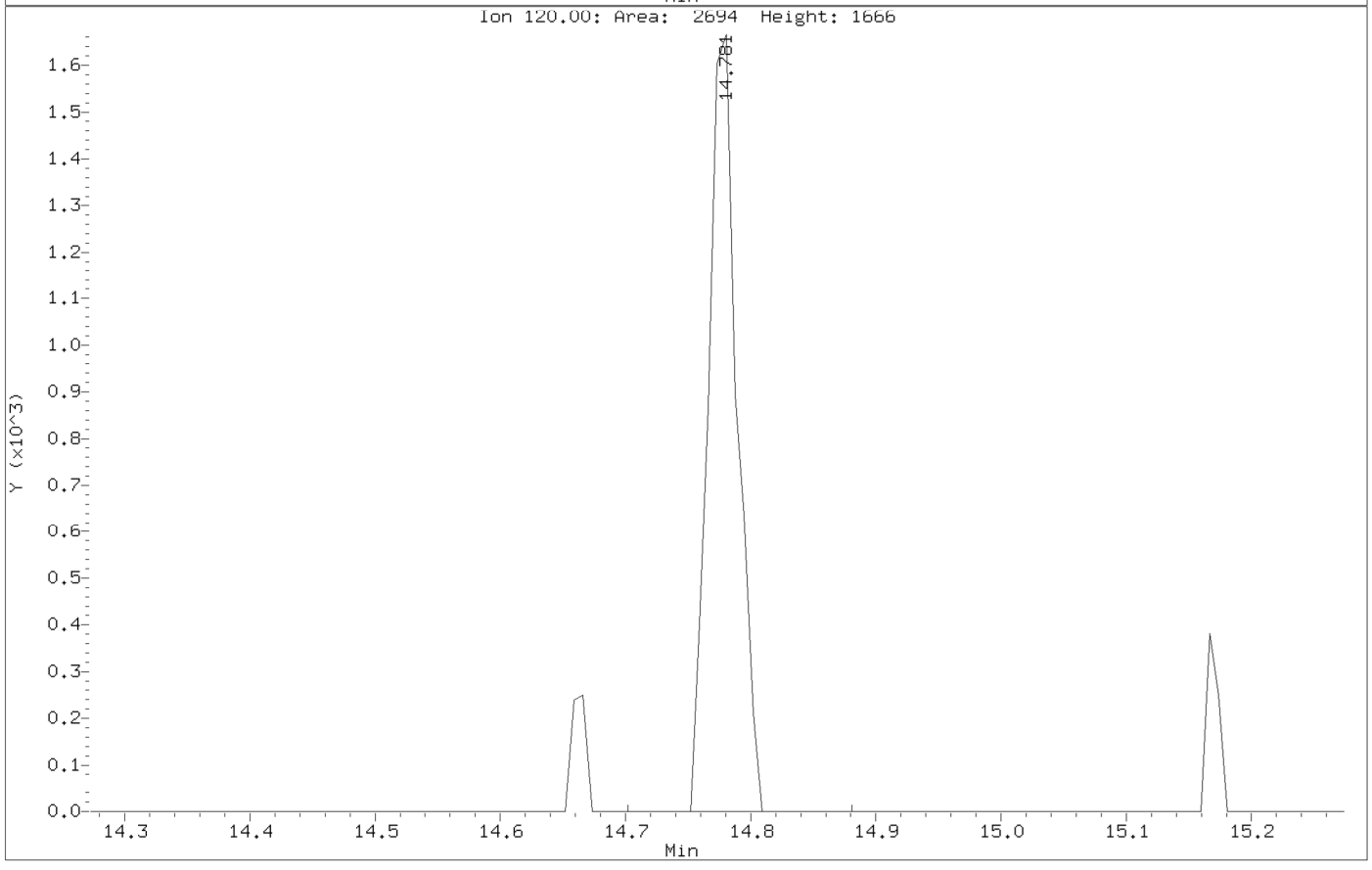


Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8863.D
Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: 1,2,4-Trimethylbenzene
CAS Number: 95-63-6

AFTER MANUAL INTEGRATION

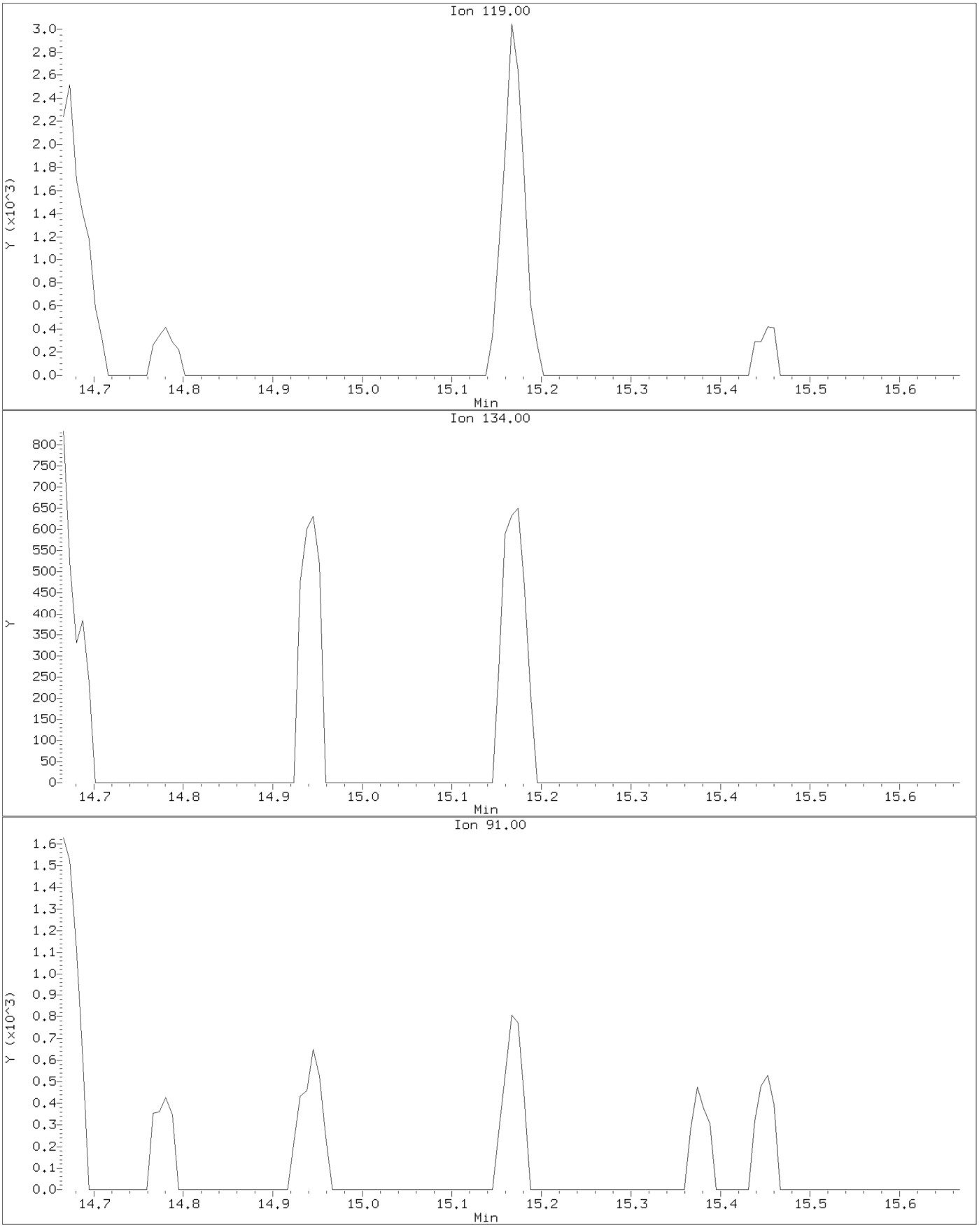




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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: P-Isopropyltoluene
CAS Number: 99-87-6

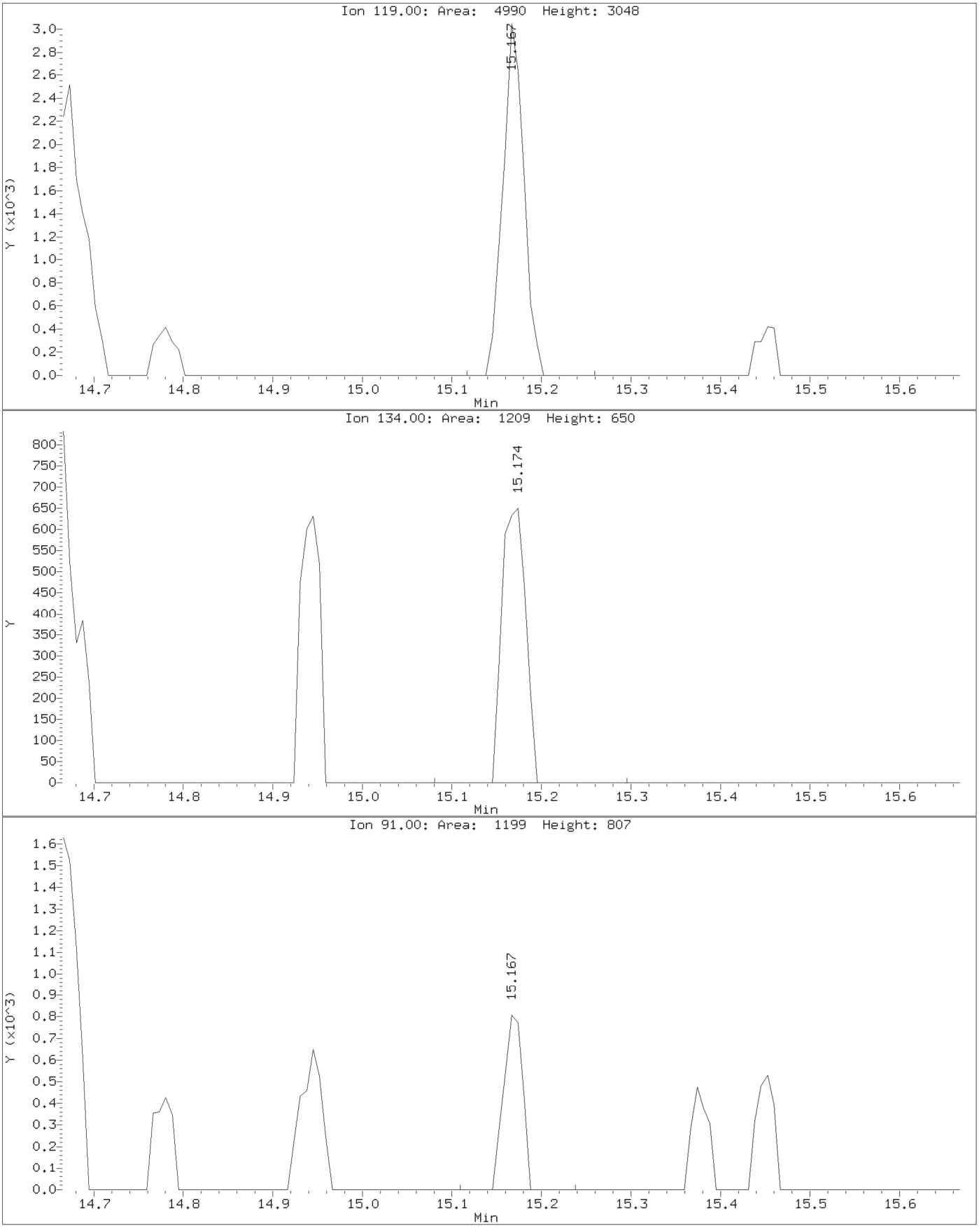
BEFORE MANUAL INTEGRATION



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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: P-Isopropyltoluene
CAS Number: 99-87-6

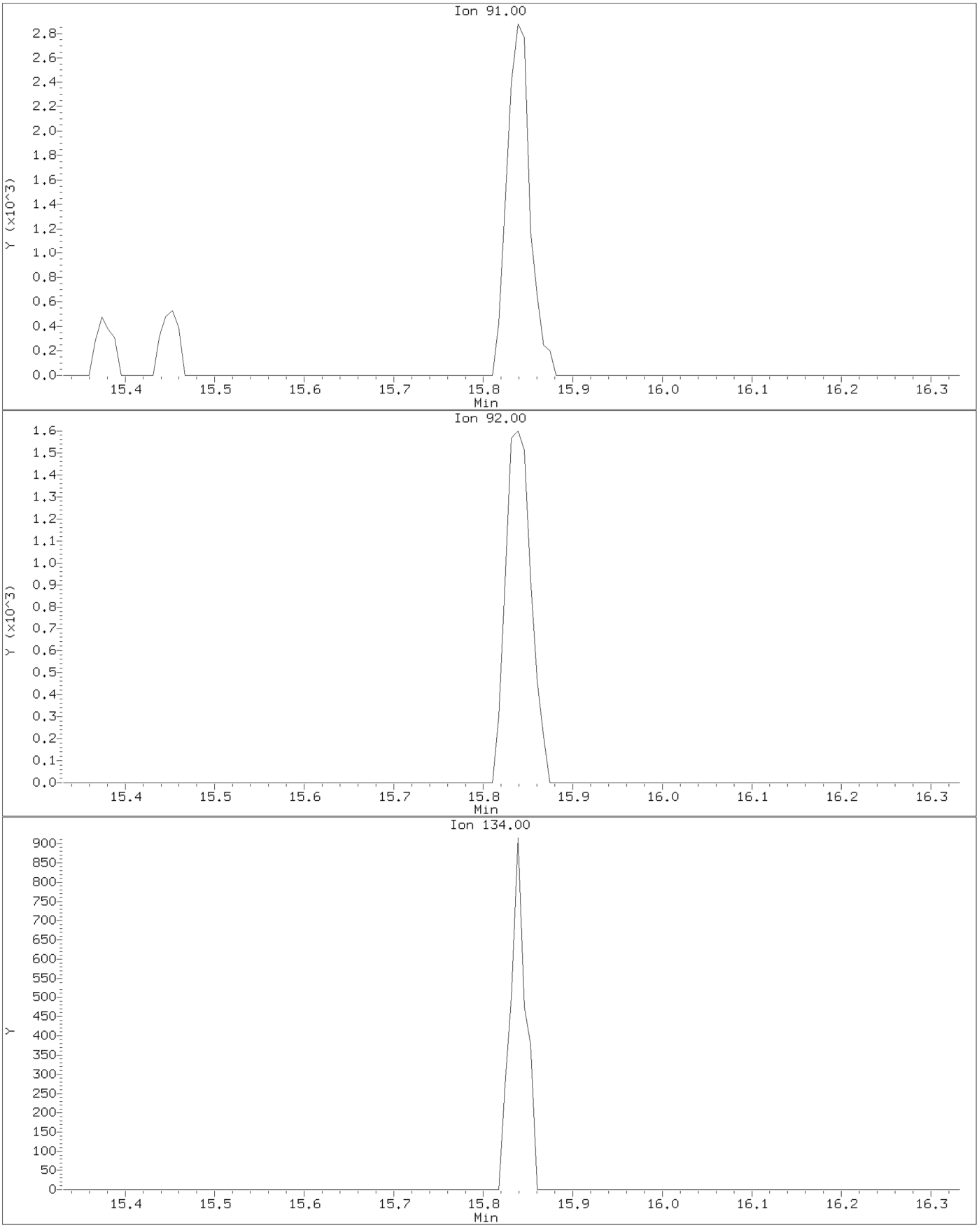
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Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: N-Butylbenzene
CAS Number: 104-51-8

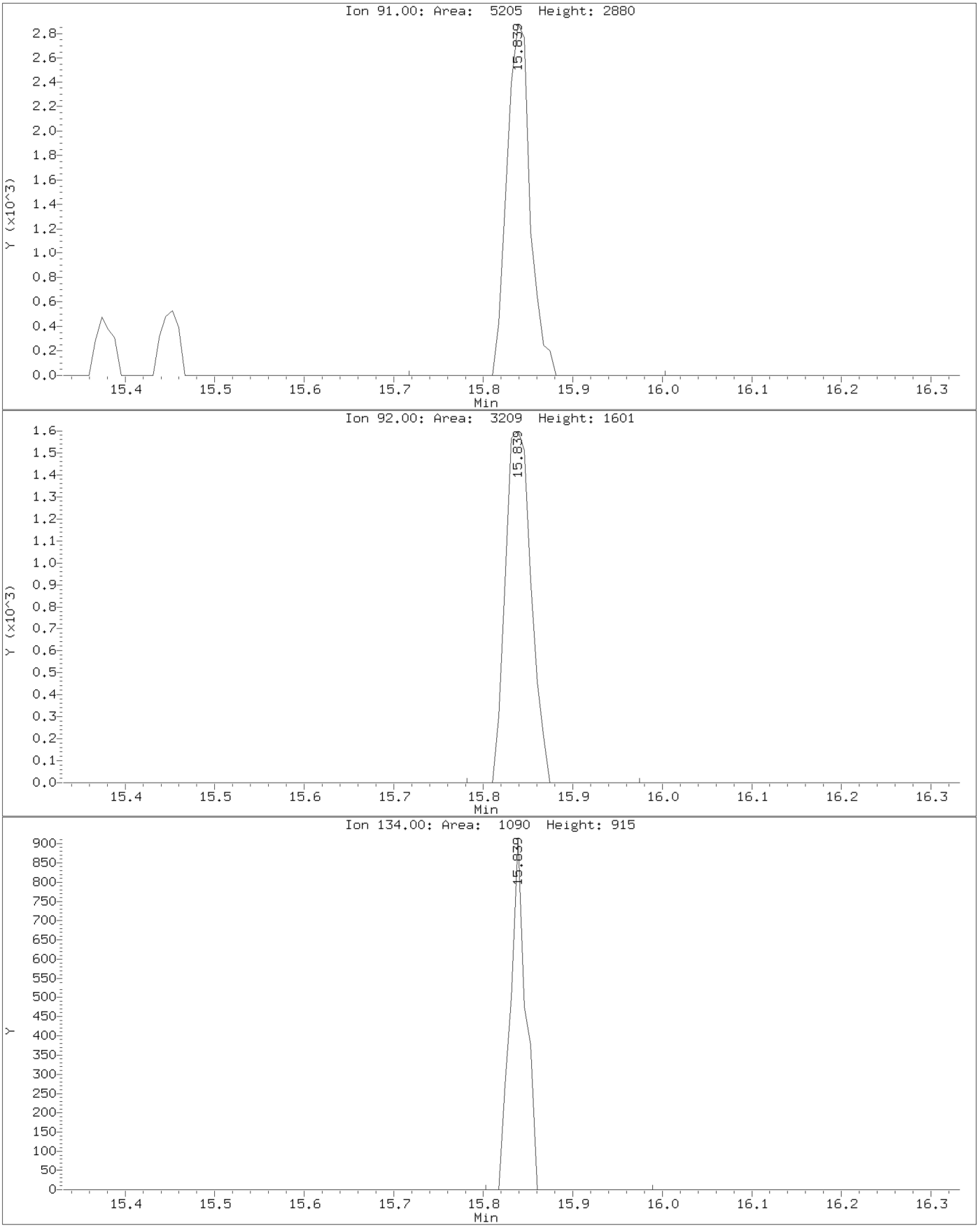
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Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: N-Butylbenzene
CAS Number: 104-51-8

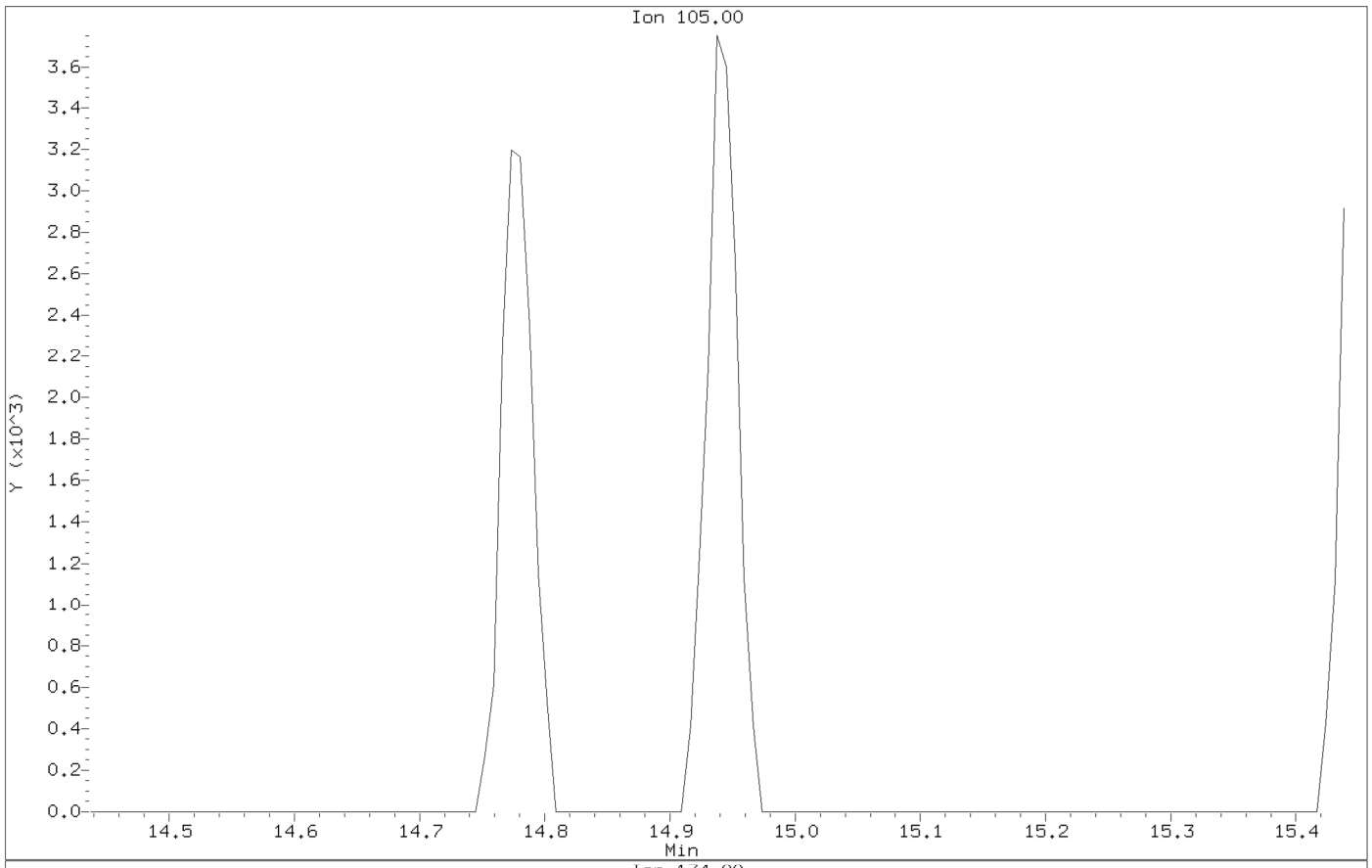
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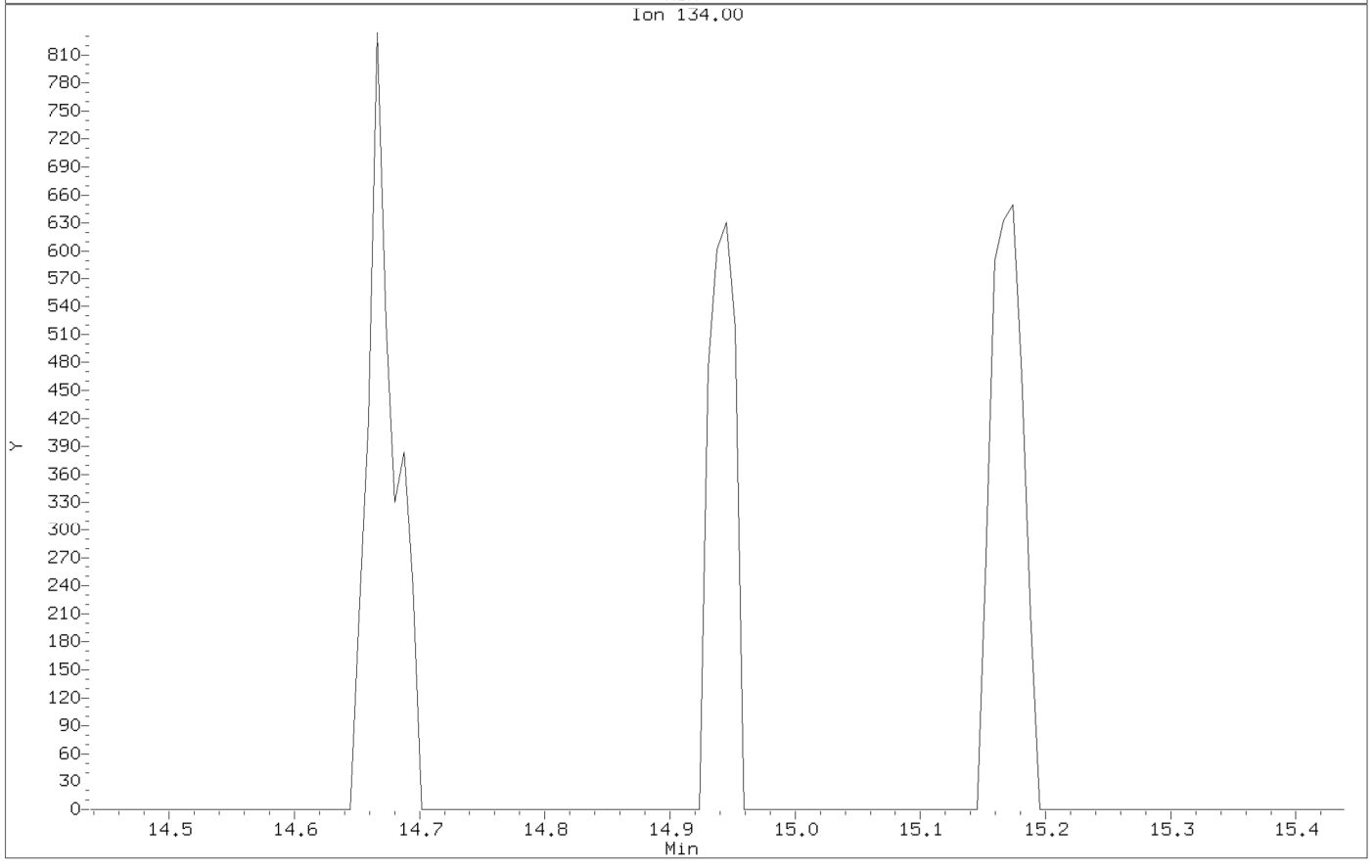


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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: sec-Butylbenzene
CAS Number: 135-98-8

BEFORE MANUAL INTEGRATION

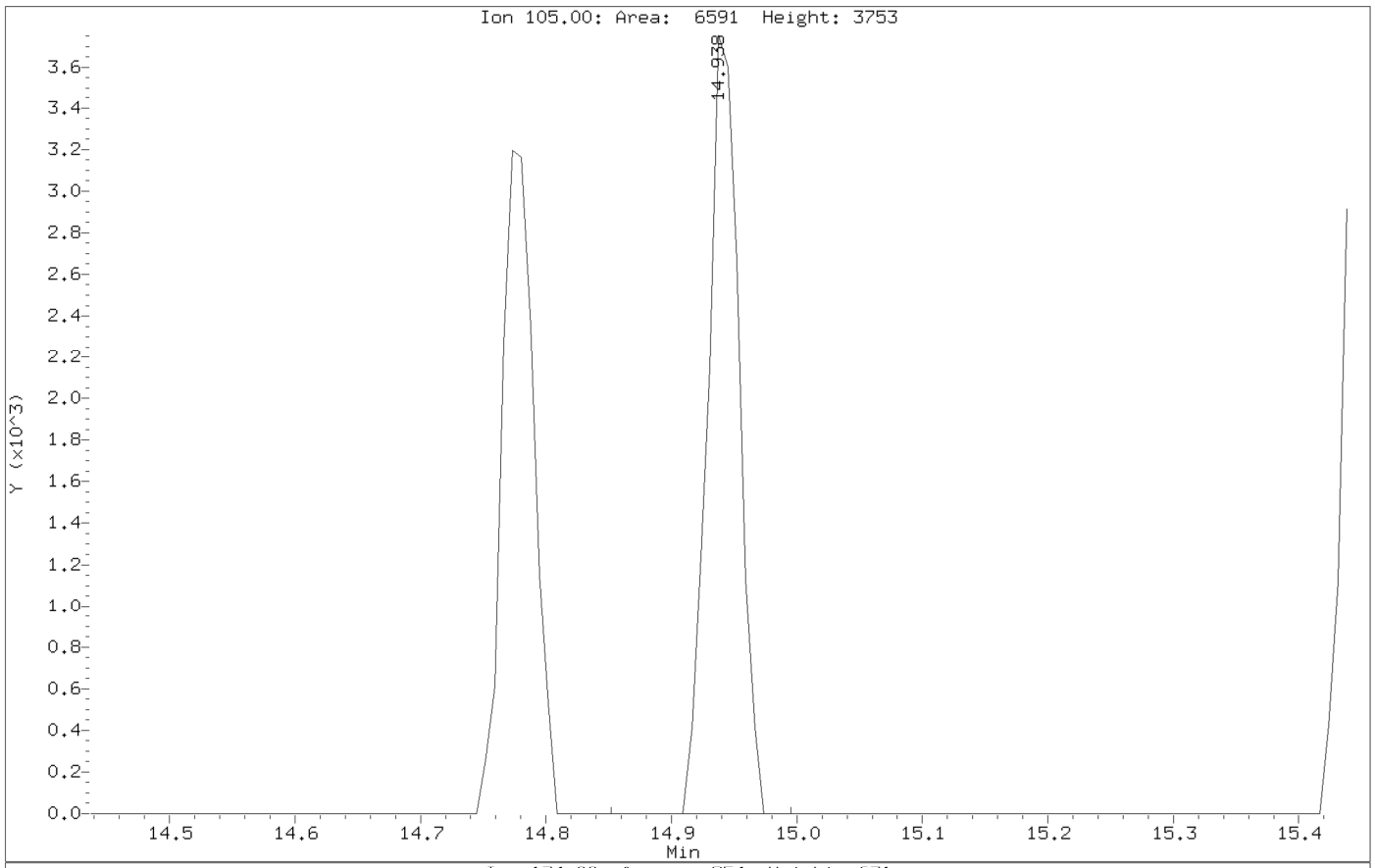


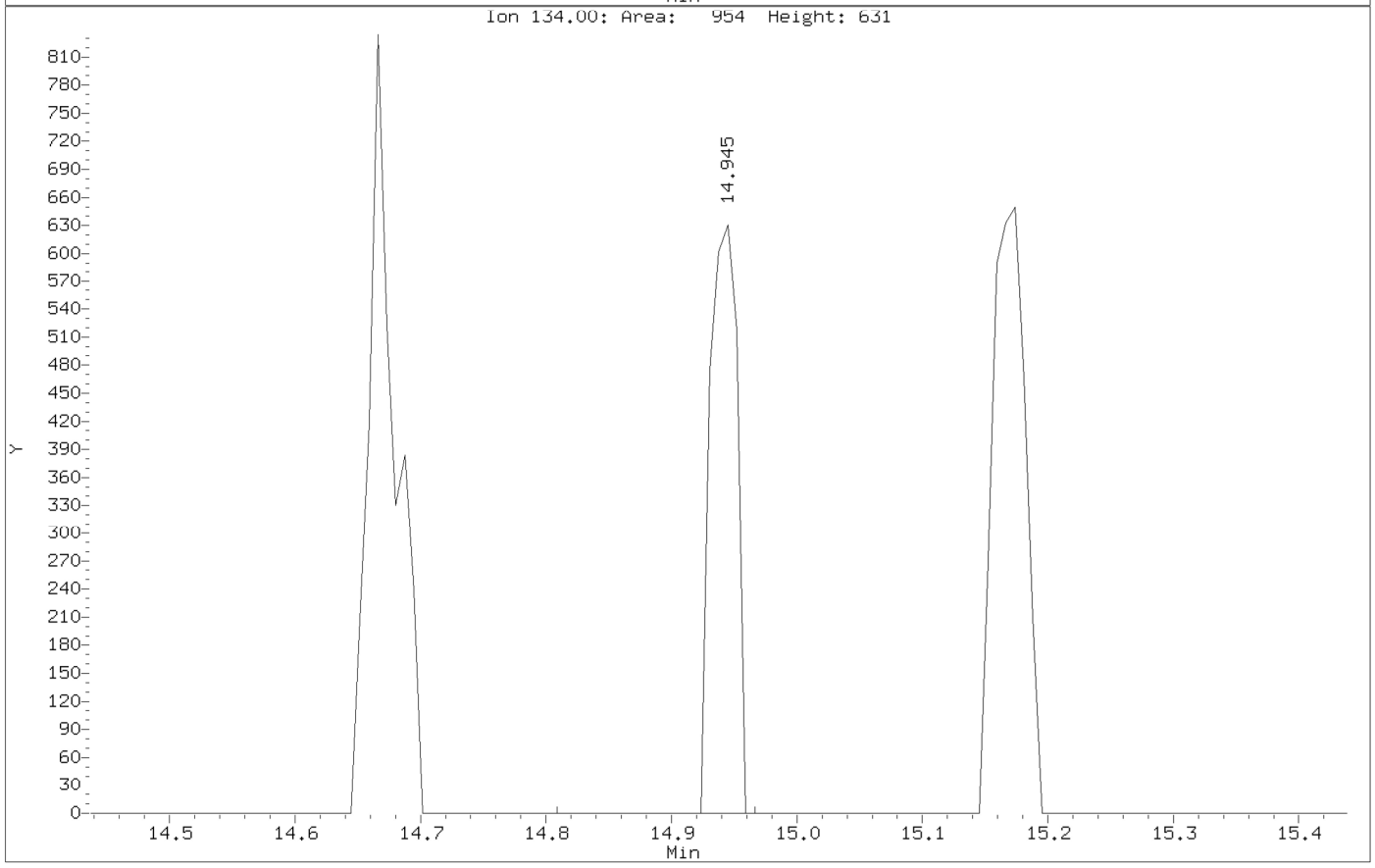


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Compound: sec-Butylbenzene
CAS Number: 135-98-8

AFTER MANUAL INTEGRATION

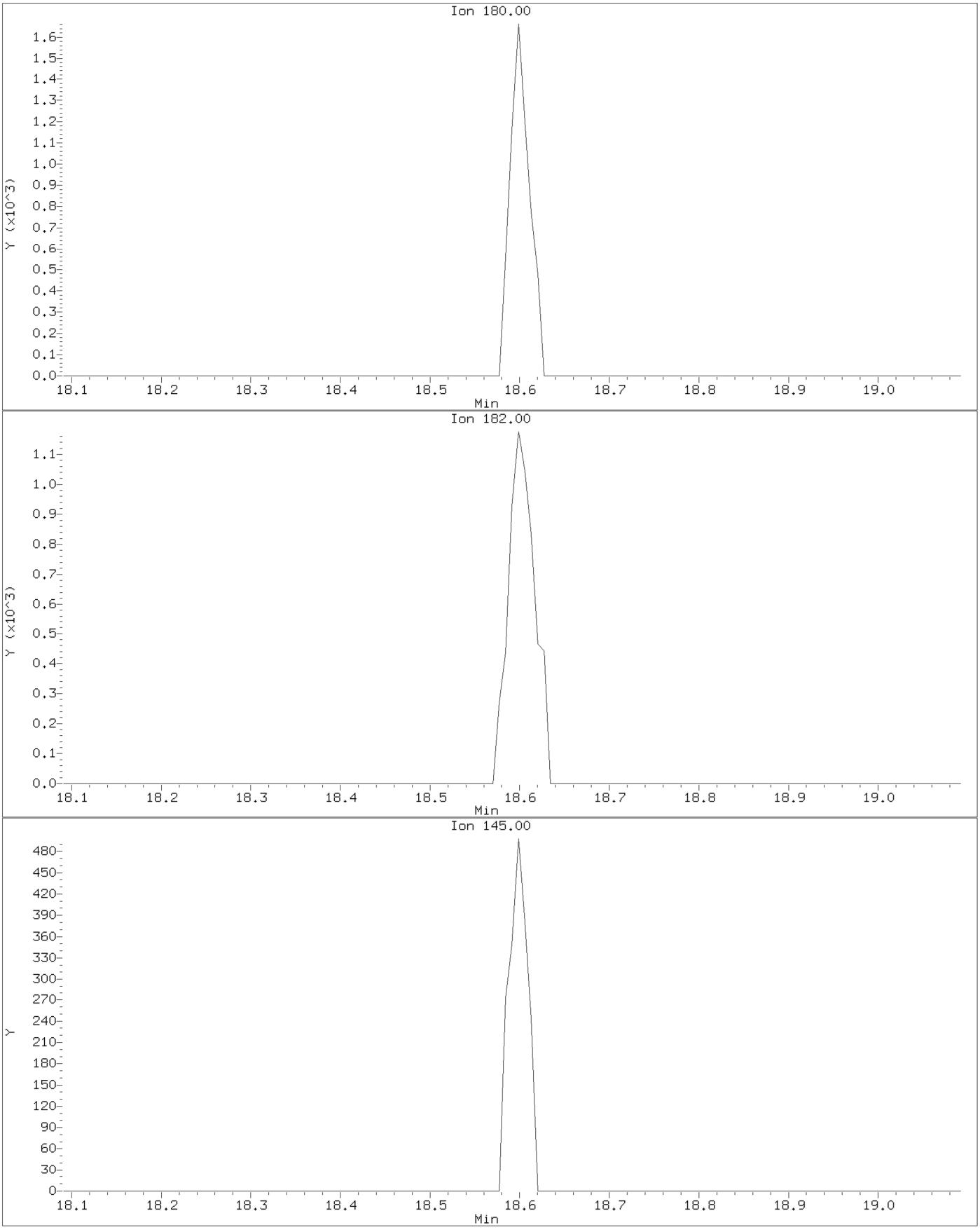




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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: 1,2,4-Trichlorobenzene
CAS Number: 120-82-1

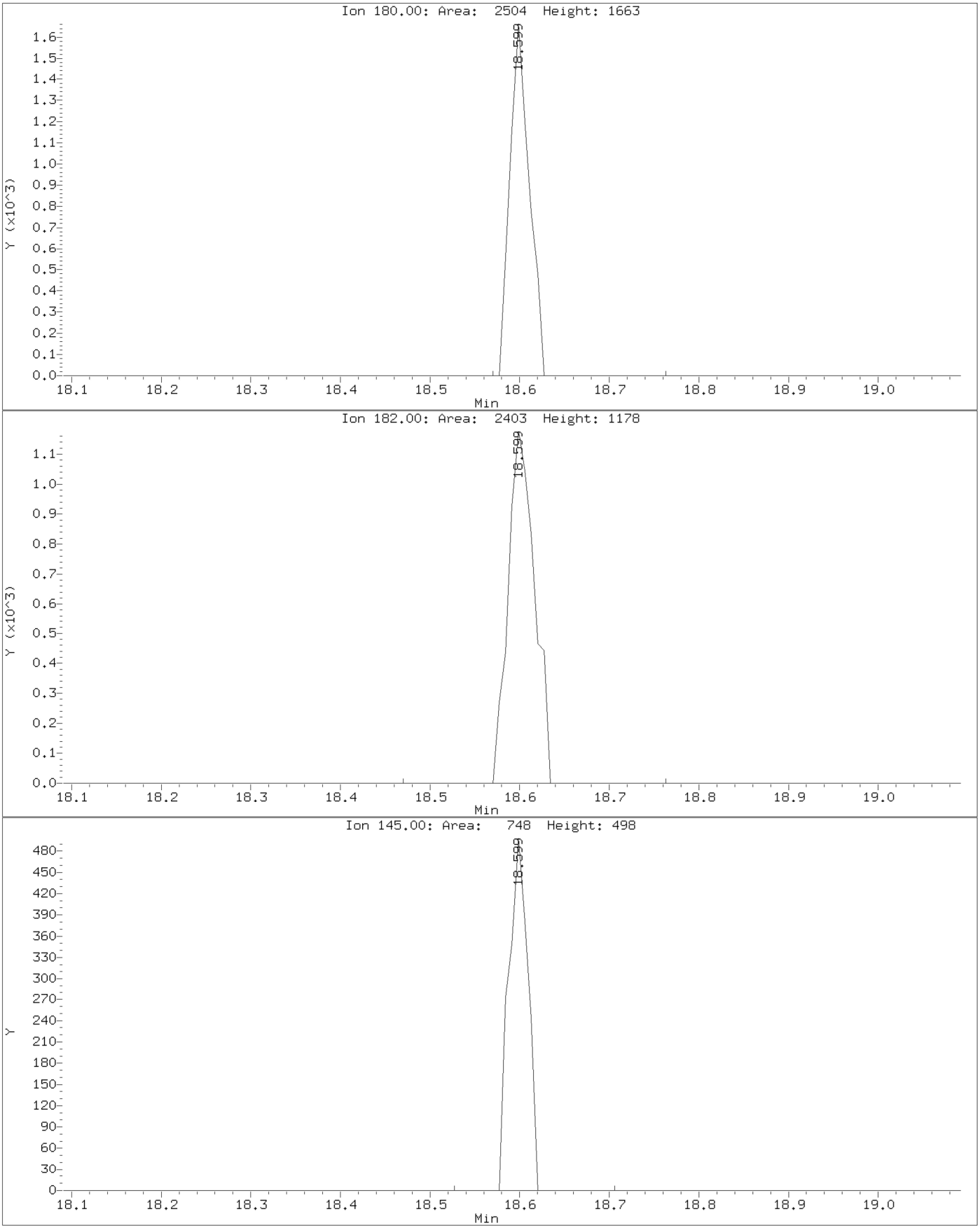
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Client Sample ID: Initial Calibration

Compound: 1,2,4-Trichlorobenzene
CAS Number: 120-82-1

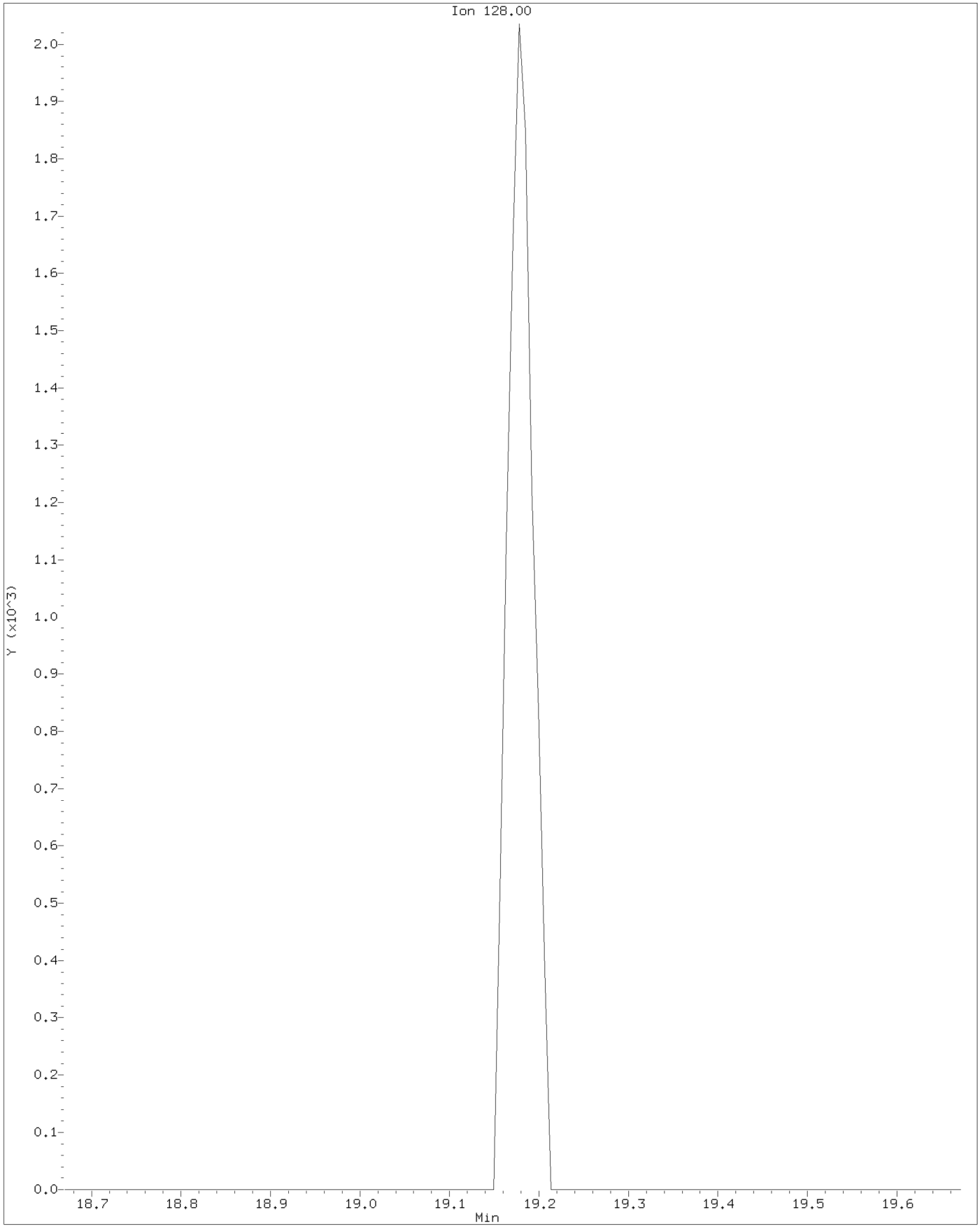
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Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: Naphthalene
CAS Number: 91-20-3

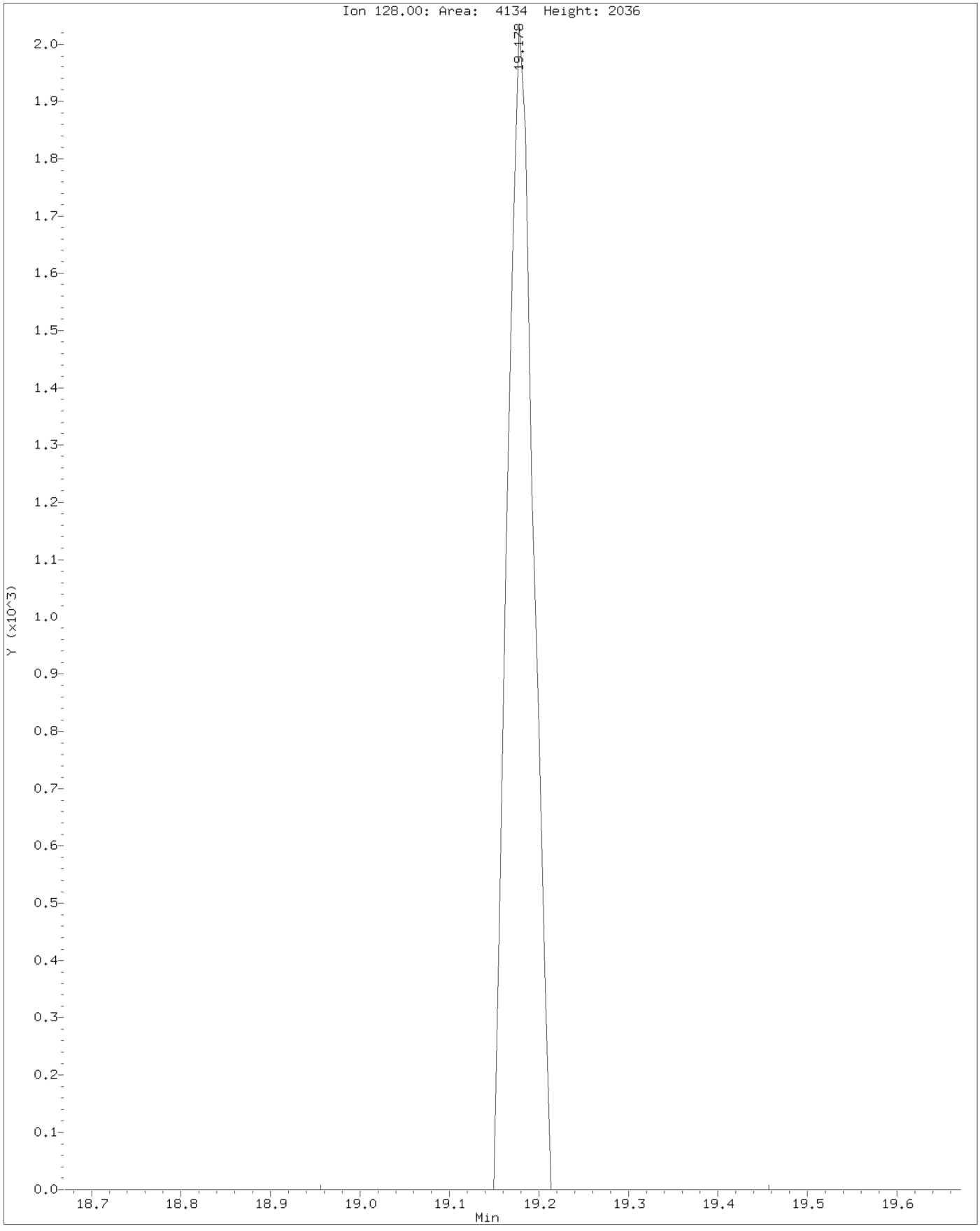
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Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: Naphthalene
CAS Number: 91-20-3

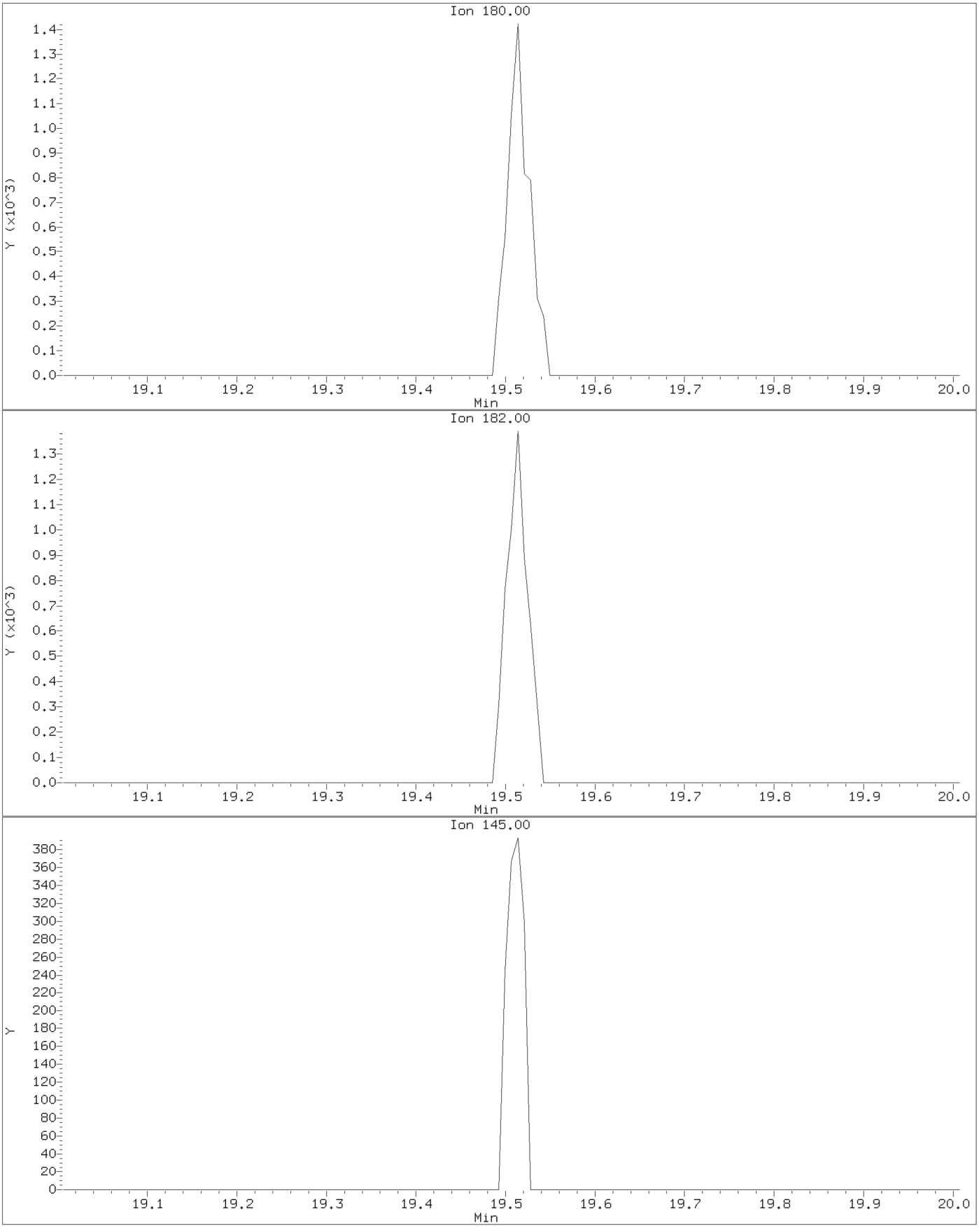
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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: 1,2,3-Trichlorobenzene
CAS Number: 87-61-6

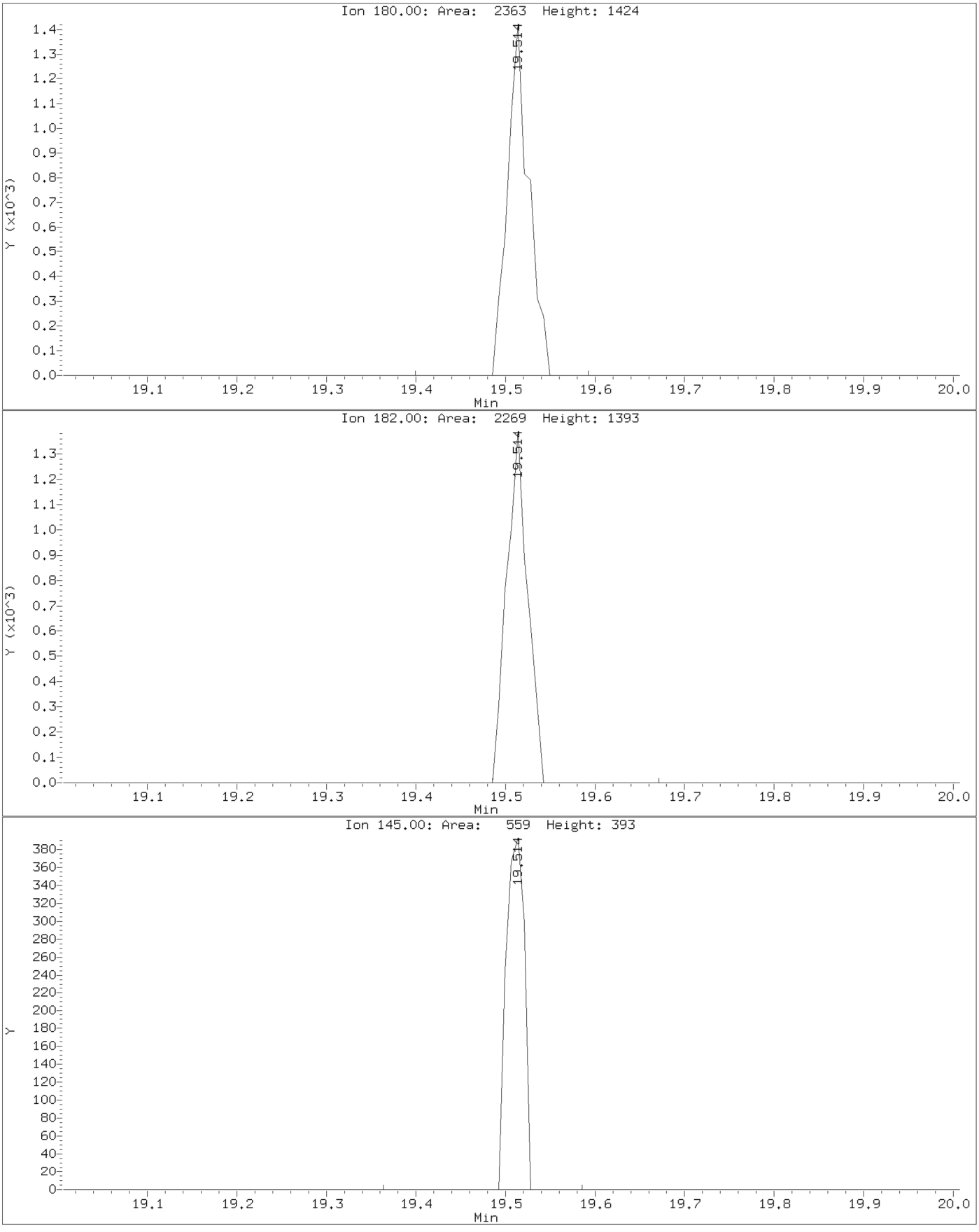
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Injection Date: 11-JUN-2014 15:07
Instrument: gcms-d.i
Client Sample ID: Initial Calibration

Compound: 1,2,3-Trichlorobenzene
CAS Number: 87-61-6

AFTER MANUAL INTEGRATION



Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8868A.D
Report Date: 12-Jun-2014 08:57

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D061114.b\D8868A.D
Lab Smp Id: WG144515-7 Client Smp ID: Independent Source
Inj Date : 11-JUN-2014 17:50 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG144515-7,SH4056
Misc Info : WG144515,WG144515-4,SH4056-8
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D061114.b\D826A48.m
Meth Date : 12-Jun-2014 08:50 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 17:18 Cal File: D8867.D
Als bottle: 8 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.010	2.011	(0.254)	282171	45.1342	45.1	
2	Chloromethane	50	2.232	2.233	(0.282)	333635	52.0566	52.0	
3	Vinyl chloride	62	2.332	2.333	(0.294)	344021	43.8843	43.9	
4	Bromomethane	94	2.718	2.712	(0.343)	230755	49.7257	49.7	
5	Chloroethane	64	2.875	2.869	(0.363)	236994	45.4834	45.5	
6	Trichlorofluoromethane	101	3.047	3.048	(0.385)	479805	40.6134	40.6	
7	Diethyl Ether	59	3.440	3.441	(0.434)	200146	43.2586	43.2	
8	Tertiary-butyl alcohol	59	5.192	5.186	(0.655)	88642	267.145	267	
9	1,1-Dichloroethene	96	3.705	3.705	(0.468)	246992	47.6932	47.7	
10	Carbon Disulfide	76	3.740	3.741	(0.472)	870042	50.5999	50.6	
11	Freon-113	151	3.769	3.770	(0.476)	124785	43.4887	43.5	
12	Iodomethane	142	3.898	3.891	(0.492)	255996	65.0849	65.1(R)	
13	Acrolein	56	4.169	4.170	(0.526)	215523	254.816	255	
14	Methylene Chloride	84	4.548	4.549	(0.574)	301773	48.0824	48.1	
15	Acetone	43	4.627	4.621	(0.584)	92515	62.6889	62.7(R)	
16	Isobutyl Alcohol	43	8.116	8.117	(1.024)	131408	1116.38	1120	
17	trans-1,2-Dichloroethene	96	4.820	4.821	(0.608)	277323	46.8977	46.9	
18	Allyl Chloride	41	4.391	4.392	(0.554)	302977	45.6203	45.6	
19	Methyl tert-butyl ether	73	5.013	5.014	(0.633)	1161915	95.9431	95.9	
20	Acetonitrile	39	5.378	5.379	(0.679)	61876	510.996	511	
21	Di-isopropyl ether	45	5.671	5.672	(0.716)	715798	50.8696	50.9	
22	Chloroprene	53	5.800	5.800	(0.732)	303492	46.5028	46.5	
23	Propionitrile	54	7.816	7.824	(0.986)	382803	465.098	465	
24	Methacrylonitrile	41	7.852	7.860	(0.991)	1308334	444.789	445	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8868A.D
Report Date: 12-Jun-2014 08:57

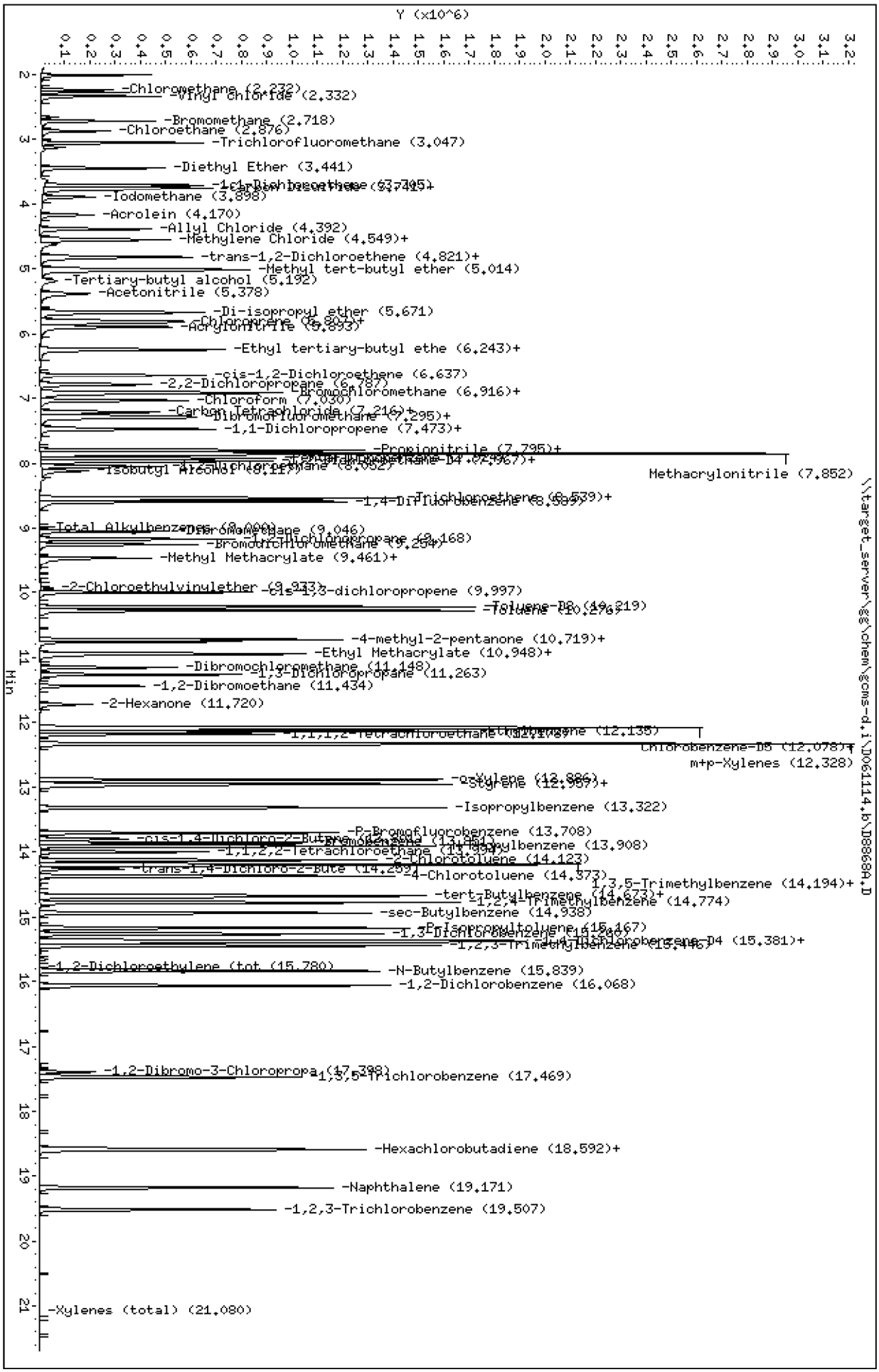
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.828	5.829	(0.736)	484468	45.4160	45.4	
	26	Acrylonitrile	52	5.893	5.893	(0.744)	386395	234.019	234	
	27	Ethyl tertiary-butyl ether	59	6.236	6.237	(0.787)	436443	57.2957	57.3	
	28	Vinyl Acetate	43	6.243	6.244	(0.727)	516837	48.5806	48.6	
	29	cis-1,2-Dichloroethene	96	6.636	6.637	(0.838)	298028	47.3090	47.3	
M	30	1,2-Dichloroethylene (total)	96				575351	94.2068	94.2	
	31	Methyl Methacrylate	41	9.461	9.454	(1.102)	177747	56.2304	56.2	
	32	2,2-Dichloropropane	77	6.786	6.787	(0.857)	294249	44.8774	44.9	
	33	Bromochloromethane	128	6.915	6.916	(0.873)	145693	49.2580	49.2	
	34	Chloroform	83	7.029	7.037	(0.887)	474005	45.1328	45.1	
	35	Carbon Tetrachloride	117	7.215	7.216	(0.840)	313876	48.0819	48.1	
	36	Tetrahydrofuran	42	7.244	7.238	(0.914)	56432	49.6305	49.6	
$	37	Dibromofluoromethane	113	7.280	7.281	(0.919)	279599	50.2741	50.3	
	38	1,1,1-Trichloroethane	97	7.301	7.302	(0.921)	386499	46.6359	46.6	
	39	1,1-Dichloropropene	75	7.473	7.474	(0.870)	348563	47.4478	47.4	
	40	2-Butanone	43	7.451	7.445	(0.940)	112257	54.0184	54.0	
	41	Benzene	78	7.795	7.795	(0.908)	1142776	47.4452	47.4	
*	42	Pentafluorobenzene	168	7.923	7.931	(1.000)	588091	50.0000		
	43	Cyclohexane	56	6.922	6.930	(0.874)	341538	44.8264	44.8	
	44	Ethyl Methacrylate	69	10.955	10.956	(1.276)	314727	57.2614	57.3	
$	45	1,2-Dichloroethane-D4	65	7.966	7.967	(1.005)	292485	44.2577	44.2	
	46	Tertiary-amyl methyl ether	73	7.973	7.974	(1.006)	333376	53.8366	53.8	
	47	1,2-Dichloroethane	62	8.052	8.053	(0.938)	331053	44.7053	44.7	
	48	Trichloroethene	95	8.545	8.545	(0.995)	266739	46.6716	46.7	
*	49	1,4-Difluorobenzene	114	8.588	8.589	(1.000)	930342	50.0000		
	50	Dibromomethane	93	9.046	9.047	(1.053)	175013	47.4401	47.4	
	51	1,2-Dichloropropane	63	9.167	9.168	(1.067)	270642	49.0203	49.0	
	52	Bromodichloromethane	83	9.253	9.254	(1.077)	371625	51.1483	51.1	
	53	cis-1,3-dichloropropene	75	9.997	9.998	(1.164)	440236	45.5143	45.5	
	54	1,4-Dioxane	88	9.496	9.497	(1.106)	56885	1123.21	1120	
$	55	Toluene-D8	98	10.218	10.219	(1.190)	1054307	56.2202	56.2	
	56	2-Chloroethylvinylether	63	9.940	9.933	(1.157)	22366	30.3181	30.3(R)	
	57	Toluene	92	10.276	10.276	(1.196)	693962	48.1816	48.2	
	58	4-methyl-2-pentanone	43	10.712	10.713	(1.247)	187349	44.5572	44.6	
	59	Tetrachloroethene	164	10.726	10.727	(0.889)	214196	47.6994	47.7	
	60	trans-1,3-Dichloropropene	75	10.755	10.755	(1.252)	371368	46.8494	46.8	
	61	1,1,2-Trichloroethane	83	10.941	10.941	(1.274)	216368	48.0462	48.0	
	62	Dibromochloromethane	129	11.148	11.156	(0.924)	277851	52.1004	52.1	
	63	1,3-Dichloropropane	76	11.262	11.263	(0.933)	472063	51.7129	51.7	
	64	1,2-Dibromoethane	107	11.434	11.435	(1.331)	261369	50.4996	50.5	
	65	2-Hexanone	43	11.720	11.721	(0.971)	134573	42.5035	42.5	
*	66	Chlorobenzene-D5	117	12.070	12.071	(1.000)	874677	50.0000		
	67	Chlorobenzene	112	12.092	12.100	(1.002)	755184	49.5733	49.6	
	152	1-Chlorohexane	91	12.077	12.078	(1.001)	340816	47.5681	47.6	
	68	Ethylbenzene	106	12.135	12.143	(1.005)	388654	47.6370	47.6	
	69	1,1,1,2-Tetrachloroethane	131	12.178	12.178	(1.009)	249574	50.2648	50.3	
M	70	Xylenes (total)	106				1475592	154.781	155	
	71	m+p-Xylenes	106	12.328	12.329	(1.021)	997987	103.749	104	
	72	o-Xylene	106	12.885	12.893	(1.068)	477605	51.0319	51.0	
	73	Styrene	104	12.957	12.958	(1.073)	807361	47.2281	47.2	
	74	Bromoform	173	12.986	12.986	(1.076)	177096	44.7587	44.8	
	75	Isopropylbenzene	105	13.322	13.322	(0.866)	1105092	57.0156	57.0	
$	76	P-Bromofluorobenzene	95	13.708	13.708	(1.596)	402060	57.4216	57.4	
	77	cis-1,4-Dichloro-2-Butene	53	13.801	13.801	(0.897)	71819	48.8816	48.9	

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8868A.D
Report Date: 12-Jun-2014 08:57

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.258	14.259	(0.927)	71303	50.1852	50.2	
	79 Bromobenzene	156	13.858	13.859	(0.901)	316769	50.5527	50.6	
	80 N-Propylbenzene	91	13.908	13.909	(0.904)	1305817	56.8018	56.8	
	81 1,1,2,2-Tetrachloroethane	83	13.994	13.994	(0.910)	359136	47.7689	47.8	
	82 1,3,5-Trimethylbenzene	105	14.194	14.202	(0.923)	920930	47.0170	47.0	
	83 2-Chlorotoluene	91	14.122	14.123	(0.918)	830134	53.6874	53.7	
	84 1,2,3-Trichloropropane	75	14.187	14.188	(0.922)	279899	46.8126	46.8	
	85 4-Chlorotoluene	91	14.373	14.373	(0.934)	896919	55.7853	55.8	
	86 tert-Butylbenzene	119	14.666	14.667	(0.954)	887463	49.5175	49.5	
	87 Pentachloroethane	117	14.687	14.688	(0.955)	198111	48.0739	48.1	
	88 1,2,4-Trimethylbenzene	105	14.773	14.774	(0.960)	986139	49.4739	49.5	
	89 P-Isopropyltoluene	119	15.166	15.167	(0.986)	930983	52.4468	52.4	
	90 1,3-Dichlorobenzene	146	15.259	15.260	(0.992)	604958	54.0542	54.0	
*	91 1,4-Dichlorobenzene-D4	152	15.381	15.374	(1.000)	519333	50.0000		
	92 1,4-Dichlorobenzene	146	15.402	15.403	(1.001)	631194	45.8927	45.9	
	93 N-Butylbenzene	91	15.838	15.832	(1.030)	825745	50.2454	50.2	
	94 sec-Butylbenzene	105	14.938	14.938	(0.971)	1058905	52.7574	52.8	
	95 1,2-Dichlorobenzene	146	16.067	16.068	(1.045)	615479	54.3274	54.3	
	96 1,2-Dibromo-3-Chloropropane	75	17.397	17.390	(1.131)	59028	50.8353	50.8	
	97 1,3,5-Trichlorobenzene	180	17.469	17.469	(1.136)	376909	52.2177	52.2	
	98 Hexachlorobutadiene	225	18.577	18.578	(1.208)	141363	47.1055	47.1	
	99 1,2,4-Trichlorobenzene	180	18.598	18.592	(1.209)	366028	50.0567	50.0	
	100 1,2,3-Trimethylbenzene	105	15.445	15.453	(1.004)	1002762	49.9499	49.9	
	101 Naphthalene	128	19.170	19.171	(1.246)	1006152	53.1036	53.1	
	102 1,2,3-Trichlorobenzene	180	19.506	19.507	(1.268)	324259	51.9501	52.0	
	103 Methyl Acetate	43	4.849	4.842	(0.612)	156260	47.2113	47.2	
	104 Methylcyclohexane	83	8.538	8.539	(1.078)	285119	45.4116	45.4	
M	153 Total Alkylbenzenes	100				6915982	358.260	358	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Y (x10^6)
Min
-Chloromethane (2.232)
-Vinyl Chloride (2.332)
-Bromomethane (2.718)
-Chloroethane (2.876)
-Trichlorofluoromethane (3.047)
-Diethyl Ether (3.441)
-Iodomethane (3.898)
-Acrolein (4.170)
-Allyl Chloride (4.392)
-Methylene Chloride (4.549)+
-trans-1,2-Dichloroethene (4.821)+
-Methyl tert-butyl ether (5.014)
-Tertiary-butyl alcohol (5.192)
-Acetonitrile (5.378)
-Di-isopropyl ether (5.671)
-Ethyl tertiary-butyl ethe (6.243)+
-cis-1,2-Dichloroethene (6.637)
-2,2-Dichloropropane (6.787)
-Chloroform (7.030)
-1,1-Dichloropropene (7.473)+
-Propionitrile (7.795)+
Methacrylonitrile (7.852)
-1,4-Difluorobenzene (8.589)
-Bromochloromethane (9.264)
-Methyl Methacrylate (9.461)+
-cis-1,3-dichloropropene (9.997)
-4-methyl-2-pentanone (10.719)+
-Ethyl Methacrylate (10.948)+
-Dibromochloromethane (11.148)
-1,2-Dibromoethane (11.434)
-2-Hexanone (11.720)
Chlorobenzene-D5 (12.078)+
m+p-Xylenes (12.328)
-Isopropylbenzene (13.322)
-1,3,5-Trimethylbenzene (14.194)+
-tert-Butylbenzene (14.673)+
-sec-Butylbenzene (14.938)
-N-Butylbenzene (15.839)
-1,2-Dichlorobenzene (16.068)
-1,2-Dibromo-3-Chloropropa (17.298)
-Hexachlorobutadiene (18.592)+
-Naphthalene (19.171)
-1,2,3-Trichlorobenzene (19.507)
-Xylenes (total) (21.080)
Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\D8868A.D
Date : 11-JUN-2014 17:50
Client ID: Independent Source
Sample Info: WG144515-7,SH4056
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D061114.b\D8868A.D

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 **SDG:** WE53-7
Lab ID : WG145261-4 **Analytical Date:** 06/23/14 08:30
Lab File ID : C7845.D **Instrument ID:** GCMS-C
Initial Calibration Date(s): 06/09/14 11:06 06/09/14 15:05 **Column ID:**

	Compound	$\overline{\text{RRF}}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
2	Chloromethane	0.34838	0.39556	0.39556	0.100	13.54160	20.00000	Averaged	
3	Vinyl chloride	0.29591	0.32177	0.32177	0.010	8.74065	20.00000	Averaged	
5	Chloroethane	0.12929	0.12373	0.12373	0.010	-4.30164	20.00000	Averaged	
9	1,1-Dichloroethene	0.22946	0.22920	0.22920	0.100	-0.11587	20.00000	Averaged	
14	Methylene Chloride	50.00000	53.91961	0.30103	0.010	7.83922	20.00000	Linear	
15	Acetone	0.07084	0.07282	0.07282	0.010	2.78831	20.00000	Averaged	
17	trans-1,2-Dichloroethene	0.27281	0.27018	0.27018	0.010	-0.96151	20.00000	Averaged	
19	Methyl tert-butyl ether	0.51290	0.54263	0.54263	0.010	5.79684	20.00000	Averaged	
25	1,1-Dichloroethane	0.45316	0.48282	0.48282	0.100	6.54501	20.00000	Averaged	
29	cis-1,2-Dichloroethene	0.29087	0.29043	0.29043	0.010	-0.14992	20.00000	Averaged	
34	Chloroform	0.46523	0.50932	0.50932	0.010	9.47853	20.00000	Averaged	
35	Carbon Tetrachloride	0.24859	0.26555	0.26555	0.010	6.82280	20.00000	Averaged	
38	1,1,1-Trichloroethane	0.41509	0.46567	0.46567	0.010	12.18605	20.00000	Averaged	
41	Benzene	0.68213	0.69081	0.69081	0.010	1.27309	20.00000	Averaged	
47	1,2-Dichloroethane	0.22482	0.24351	0.24351	0.010	8.31563	20.00000	Averaged	
48	Trichloroethene	0.18597	0.18953	0.18953	0.010	1.91237	20.00000	Averaged	
57	Toluene	0.44784	0.45882	0.45882	0.010	2.45170	20.00000	Averaged	
59	Tetrachloroethene	0.19648	0.18718	0.18718	0.010	-4.73687	20.00000	Averaged	
61	1,1,2-Trichloroethane	0.13578	0.13911	0.13911	0.010	2.45413	20.00000	Averaged	
65	2-Hexanone	250	277	0.09377	0.010	10.74731	20.00000	Linear	
67	Chlorobenzene	0.50731	0.50446	0.50446	0.300	-0.56100	20.00000	Averaged	
68	Ethylbenzene	0.29652	0.28749	0.28749	0.010	-3.04384	20.00000	Averaged	
70	Xylenes (total)	++++	0.34549	0.34549	0.010	++++	20.00000	Averaged	*
71	m+p-Xylenes	0.33514	0.35374	0.35374	0.010	5.54952	20.00000	Averaged	
72	o-Xylene	0.31306	0.32900	0.32900	0.010	5.09103	20.00000	Averaged	
73	Styrene	0.53648	0.58947	0.58947	0.010	9.87887	20.00000	Averaged	
75	Isopropylbenzene	50.00000	48.29413	1.43251	0.010	-3.41174	20.00000	Quadratic	
81	1,1,2,2-Tetrachloroethane	0.35396	0.37087	0.37087	0.300	4.77855	20.00000	Averaged	
90	1,3-Dichlorobenzene	0.75122	0.76204	0.76204	0.010	1.43951	20.00000	Averaged	
92	1,4-Dichlorobenzene	0.84462	0.83685	0.83685	0.010	-0.92022	20.00000	Averaged	
95	1,2-Dichlorobenzene	0.67255	0.68634	0.68634	0.010	2.04917	20.00000	Averaged	
99	1,2,4-Trichlorobenzene	50.00000	46.78563	0.38497	0.010	-6.42875	20.00000	Linear	
104	Methylcyclohexane	0.45070	0.44980	0.44980	0.010	-0.20116	20.00000	Averaged	
37	Dibromofluoromethane	0.28412	0.27254	0.27254	0.010	-4.07671	20.00000	Averaged	
45	1,2-Dichloroethane-D4	0.28900	0.30214	0.30214	0.010	4.54809	20.00000	Averaged	
55	Toluene-D8	0.62521	0.59131	0.59131	0.010	-5.42274	20.00000	Averaged	
76	P-Bromofluorobenzene	0.26801	0.27237	0.27237	0.010	1.62660	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab ID : WG145261-4
Lab File ID : C7845.D
Initial Calibration Date(s): 06/09/14 11:06 06/09/14 15:05

SDG: WE53-7
Analytical Date: 06/23/14 08:30
Instrument ID: GCMS-C
Column ID:

*** = Compound out of QC criteria**

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7845.D
Report Date: 15-Jul-2014 12:06

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7845.D
Lab Smp Id: WG145261-4 Client Smp ID: ontinuing Calibrati
Inj Date : 23-JUN-2014 08:30 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG145261-4,WE53-7
Misc Info : WG145261,WG144357-4,SH4401-2
Comment : SW846 5030,AQ
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

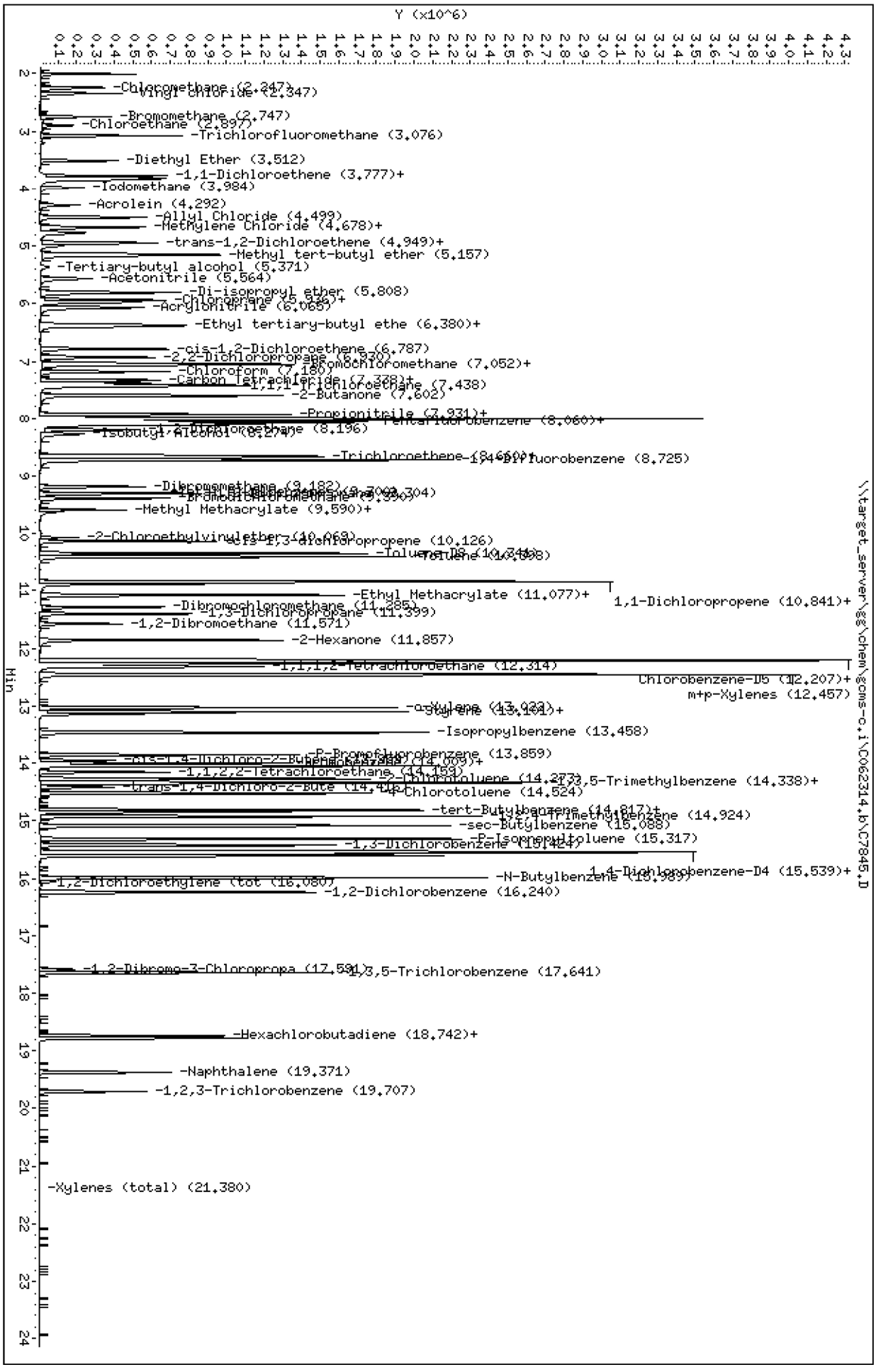
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.003	2.000	(0.249)	358494	50.0000	74.7	
2	Chloromethane	50	2.246	2.236	(0.279)	446150	50.0000	56.8	
3	Vinyl chloride	62	2.346	2.343	(0.291)	362931	50.0000	54.4	
4	Bromomethane	94	2.747	2.744	(0.341)	208975	50.0000	43.5	
5	Chloroethane	64	2.897	2.894	(0.359)	139551	50.0000	47.8	
6	Trichlorofluoromethane	101	3.076	3.080	(0.382)	594044	50.0000	58.0	
7	Diethyl Ether	59	3.512	3.509	(0.436)	221114	50.0000	55.4	
8	Tertiary-butyl alcohol	59	5.371	5.361	(0.666)	62934	250.000	209	
9	1,1-Dichloroethene	96	3.776	3.773	(0.469)	258510	50.0000	49.9	
10	Carbon Disulfide	76	3.812	3.809	(0.473)	863996	50.0000	55.8	
11	Freon-113	151	3.841	3.838	(0.477)	196535	50.0000	47.6	
12	Iodomethane	142	3.984	3.981	(0.494)	303458	50.0000	43.9	
13	Acrolein	56	4.291	4.288	(0.532)	226300	250.000	253	
14	Methylene Chloride	84	4.677	4.681	(0.580)	339529	50.0000	53.9	
15	Acetone	43	4.770	4.774	(0.592)	410648	250.000	257	
16	Isobutyl Alcohol	43	8.274	8.271	(1.027)	156936	1000.00	1000	
17	trans-1,2-Dichloroethene	96	4.949	4.946	(0.614)	304740	50.0000	49.5	
18	Allyl Chloride	41	4.499	4.502	(0.558)	427953	50.0000	49.9	
19	Methyl tert-butyl ether	73	5.156	5.153	(0.640)	1224079	100.000	106	
20	Acetonitrile	39	5.564	5.568	(0.690)	83646	500.000	522	
21	Di-isopropyl ether	45	5.807	5.811	(0.721)	786050	50.0000	49.1	
22	Chloroprene	53	5.936	5.940	(0.737)	433230	50.0000	52.6	
23	Propionitrile	54	7.988	7.985	(0.991)	404636	500.000	586	
24	Methacrylonitrile	41	8.009	8.013	(0.994)	1611394	500.000	576	

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7845.D
Report Date: 15-Jul-2014 12:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
25	1,1-Dichloroethane	63	5.971	5.975	(0.741)	544570	50.0000	53.3	
26	Acrylonitrile	52	6.064	6.068	(0.752)	430976	250.000	275	
27	Ethyl tertiary-butyl ether	59	6.372	6.376	(0.791)	667684	50.0000	49.7	
28	Vinyl Acetate	43	6.393	6.397	(0.733)	599536	50.0000	49.2	
29	cis-1,2-Dichloroethene	96	6.787	6.783	(0.842)	327581	50.0000	49.9	
31	Methyl Methacrylate	41	9.589	9.586	(1.099)	198031	50.0000	42.7	
32	2,2-Dichloropropane	77	6.930	6.934	(0.860)	427834	50.0000	53.8	
33	Bromochloromethane	128	7.058	7.062	(0.876)	169146	50.0000	50.7	
34	Chloroform	83	7.180	7.177	(0.891)	574468	50.0000	54.7	
35	Carbon Tetrachloride	117	7.337	7.341	(0.841)	451438	50.0000	53.4	
36	Tetrahydrofuran	42	7.380	7.384	(0.916)	340175	250.000	276	
$ 37	Dibromofluoromethane	113	7.423	7.427	(0.921)	307395	50.0000	48.0	
38	1,1,1-Trichloroethane	97	7.437	7.441	(0.923)	525229	50.0000	56.1	
39	1,1-Dichloropropene	75	10.884	10.888	(1.247)	406024	50.0000	52.8	
40	2-Butanone	43	7.602	7.606	(0.943)	581139	250.000	295	
41	Benzene	78	7.931	7.935	(0.909)	1174405	50.0000	50.6	
* 42	Pentafluorobenzene	168	8.059	8.063	(1.000)	1127904	50.0000		
43	Cyclohexane	56	7.044	7.048	(0.874)	484237	50.0000	55.4	
44	Ethyl Methacrylate	69	11.077	11.081	(1.270)	328323	50.0000	46.2	
$ 45	1,2-Dichloroethane-D4	65	8.109	8.113	(1.006)	340789	50.0000	52.3	
46	Tertiary-amyl methyl ether	73	8.102	8.099	(1.005)	561898	50.0000	48.9	
47	1,2-Dichloroethane	62	8.195	8.199	(0.939)	413982	50.0000	54.2	
48	Trichloroethene	95	8.674	8.670	(0.994)	322208	50.0000	51.0	
* 49	1,4-Difluorobenzene	114	8.724	8.721	(1.000)	1700036	50.0000		
50	Dibromomethane	93	9.182	9.186	(1.052)	192691	50.0000	48.3	
51	1,2-Dichloropropane	63	9.303	9.307	(1.066)	283577	50.0000	50.6	
52	Bromodichloromethane	83	9.389	9.386	(1.076)	417833	50.0000	52.6	
53	cis-1,3-dichloropropene	75	10.126	10.130	(1.161)	478751	50.0000	53.4	
54	1,4-Dioxane	88	9.625	9.629	(1.103)	60638	1000.00	828	
$ 55	Toluene-D8	98	10.340	10.344	(1.185)	1005248	50.0000	47.3	
56	2-Chloroethylvinylether	63	10.068	10.065	(1.154)	77798	50.0000	41.2	
57	Toluene	92	10.397	10.401	(1.192)	780011	50.0000	51.2	
58	4-methyl-2-pentanone	43	10.848	10.845	(1.243)	1130971	250.000	309	
59	Tetrachloroethene	164	10.841	10.845	(0.888)	321792	50.0000	47.6	
60	trans-1,3-Dichloropropene	75	10.884	10.888	(1.247)	406024	50.0000	52.8	
61	1,1,2-Trichloroethane	83	11.077	11.073	(1.270)	236497	50.0000	51.2	
62	Dibromochloromethane	129	11.284	11.288	(0.924)	353325	50.0000	52.4	
63	1,3-Dichloropropane	76	11.406	11.402	(0.934)	491663	50.0000	52.9	
64	1,2-Dibromoethane	107	11.570	11.574	(1.326)	293272	50.0000	49.1	
65	2-Hexanone	43	11.856	11.860	(0.971)	806045	250.000	277	
* 66	Chlorobenzene-D5	117	12.206	12.210	(1.000)	1719184	50.0000		
67	Chlorobenzene	112	12.228	12.232	(1.002)	867259	50.0000	49.7	
152	1-Chlorohexane	91	12.199	12.203	(0.999)	505389	50.0000	48.8	
68	Ethylbenzene	106	12.264	12.268	(1.005)	494253	50.0000	48.5	
69	1,1,1,2-Tetrachloroethane	131	12.314	12.318	(1.009)	347359	50.0000	50.0	
71	m+p-Xylenes	106	12.457	12.453	(1.021)	1216301	100.000	106	
72	o-Xylene	106	13.022	13.025	(1.067)	565607	50.0000	52.5	
73	Styrene	104	13.100	13.097	(1.073)	1013413	50.0000	54.9	
74	Bromoform	173	13.136	13.140	(1.076)	248630	50.0000	52.2	
75	Isopropylbenzene	105	13.458	13.462	(0.866)	1490372	50.0000	48.3	
$ 76	P-Bromofluorobenzene	95	13.858	13.855	(1.588)	463044	50.0000	50.8	
77	cis-1,4-Dichloro-2-Butene	53	13.958	13.962	(0.898)	92494	50.0000	43.0	
78	trans-1,4-Dichloro-2-Butene	53	14.416	14.420	(0.928)	88125	50.0000	44.0	
79	Bromobenzene	156	14.008	14.005	(0.902)	446264	50.0000	48.9	

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7845.D
Report Date: 15-Jul-2014 12:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
80	N-Propylbenzene	91	14.044	14.048	(0.904)	1776397	50.0000	50.0	
81	1,1,2,2-Tetrachloroethane	83	14.158	14.155	(0.911)	385851	50.0000	52.4	
82	1,3,5-Trimethylbenzene	105	14.337	14.341	(0.923)	1384442	50.0000	49.2	
83	2-Chlorotoluene	91	14.273	14.277	(0.919)	1060318	50.0000	53.3	
84	1,2,3-Trichloropropane	75	14.351	14.355	(0.924)	303160	50.0000	53.2	
85	4-Chlorotoluene	91	14.523	14.520	(0.935)	1104247	50.0000	55.5	
86	tert-Butylbenzene	119	14.816	14.813	(0.954)	1366116	50.0000	53.3	
87	Pentachloroethane	117	14.845	14.849	(0.955)	313469	50.0000	51.6	
88	1,2,4-Trimethylbenzene	105	14.923	14.927	(0.960)	1388861	50.0000	50.7	
89	P-Isopropyltoluene	119	15.317	15.313	(0.986)	1466240	50.0000	48.8	
90	1,3-Dichlorobenzene	146	15.424	15.421	(0.993)	792814	50.0000	50.7	
* 91	1,4-Dichlorobenzene-D4	152	15.538	15.542	(1.000)	1040390	50.0000		
92	1,4-Dichlorobenzene	146	15.560	15.564	(1.001)	870648	50.0000	49.5	
93	N-Butylbenzene	91	15.989	15.993	(1.029)	1451717	50.0000	51.7	
94	sec-Butylbenzene	105	15.088	15.092	(0.971)	1704794	50.0000	49.4	
95	1,2-Dichlorobenzene	146	16.239	16.242	(1.045)	714057	50.0000	51.0	
96	1,2-Dibromo-3-Chloropropane	75	17.590	17.594	(1.132)	48925	50.0000	46.3	
97	1,3,5-Trichlorobenzene	180	17.640	17.644	(1.135)	596596	50.0000	46.7	
98	Hexachlorobutadiene	225	18.749	18.746	(1.207)	230037	50.0000	45.0	
99	1,2,4-Trichlorobenzene	180	18.785	18.788	(1.209)	400523	50.0000	46.8	
100	1,2,3-Trimethylbenzene	105	15.603	15.607	(1.004)	1352107	50.0000	52.1	
101	Naphthalene	128	19.371	19.375	(1.247)	606283	50.0000	44.2	
102	1,2,3-Trichlorobenzene	180	19.707	19.711	(1.268)	218579	50.0000	48.0	
103	Methyl Acetate	43	4.999	4.996	(0.620)	186335	50.0000	51.7	
104	Methylcyclohexane	83	8.653	8.650	(1.074)	507329	50.0000	49.9	



Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7845.D
Date : 23-JUN-2014 08:30
Client ID: ontinuing Calibrati
Sample Info: WG145261-4,WE53-7
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18

\\target_server\gg\chem\gcms-c.i\C062314.b\C7845.D

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 **SDG:** WE53-7
Lab ID : WG145321-4 **Analytical Date:** 06/24/14 07:53
Lab File ID : C7869.D **Instrument ID:** GCMS-C
Initial Calibration Date(s): 06/09/14 11:06 06/09/14 15:05 **Column ID:**

	Compound	$\overline{\text{RRF}}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
2	Chloromethane	0.34838	0.38032	0.38032	0.100	9.16800	20.00000	Averaged	
3	Vinyl chloride	0.29591	0.30709	0.30709	0.010	3.77662	20.00000	Averaged	
5	Chloroethane	0.12929	0.11350	0.11350	0.010	-12.21125	20.00000	Averaged	
9	1,1-Dichloroethene	0.22946	0.22468	0.22468	0.100	-2.08148	20.00000	Averaged	
14	Methylene Chloride	50.00000	53.03208	0.29616	0.010	6.06415	20.00000	Linear	
15	Acetone	0.07084	0.08213	0.08213	0.010	15.93700	20.00000	Averaged	
17	trans-1,2-Dichloroethene	0.27281	0.26612	0.26612	0.010	-2.45088	20.00000	Averaged	
19	Methyl tert-butyl ether	0.51290	0.56019	0.56019	0.010	9.21932	20.00000	Averaged	
25	1,1-Dichloroethane	0.45316	0.47772	0.47772	0.100	5.42001	20.00000	Averaged	
29	cis-1,2-Dichloroethene	0.29087	0.28509	0.28509	0.010	-1.98846	20.00000	Averaged	
34	Chloroform	0.46523	0.50042	0.50042	0.010	7.56536	20.00000	Averaged	
35	Carbon Tetrachloride	0.24859	0.27116	0.27116	0.010	9.08030	20.00000	Averaged	
38	1,1,1-Trichloroethane	0.41509	0.45219	0.45219	0.010	8.93988	20.00000	Averaged	
41	Benzene	0.68213	0.69699	0.69699	0.010	2.17911	20.00000	Averaged	
47	1,2-Dichloroethane	0.22482	0.24859	0.24859	0.010	10.57426	20.00000	Averaged	
48	Trichloroethene	0.18597	0.18746	0.18746	0.010	0.79692	20.00000	Averaged	
57	Toluene	0.44784	0.45218	0.45218	0.010	0.96906	20.00000	Averaged	
59	Tetrachloroethene	0.19648	0.18753	0.18753	0.010	-4.55532	20.00000	Averaged	
61	1,1,2-Trichloroethane	0.13578	0.14475	0.14475	0.010	6.60881	20.00000	Averaged	
65	2-Hexanone	250	341	0.11499	0.010	36.32335	20.00000	Linear	*
67	Chlorobenzene	0.50731	0.50444	0.50444	0.300	-0.56444	20.00000	Averaged	
68	Ethylbenzene	0.29652	0.29387	0.29387	0.010	-0.89267	20.00000	Averaged	
70	Xylenes (total)	++++	0.34232	0.34232	0.010	++++	20.00000	Averaged	*
71	m+p-Xylenes	0.33514	0.35363	0.35363	0.010	5.51451	20.00000	Averaged	
72	o-Xylene	0.31306	0.31971	0.31971	0.010	2.12375	20.00000	Averaged	
73	Styrene	0.53648	0.59232	0.59232	0.010	10.40939	20.00000	Averaged	
75	Isopropylbenzene	50.00000	47.79325	1.41988	0.010	-4.41350	20.00000	Quadratic	
81	1,1,2,2-Tetrachloroethane	0.35396	0.41355	0.41355	0.300	16.83532	20.00000	Averaged	
90	1,3-Dichlorobenzene	0.75122	0.77784	0.77784	0.010	3.54354	20.00000	Averaged	
92	1,4-Dichlorobenzene	0.84462	0.85222	0.85222	0.010	0.89963	20.00000	Averaged	
95	1,2-Dichlorobenzene	0.67255	0.70312	0.70312	0.010	4.54471	20.00000	Averaged	
99	1,2,4-Trichlorobenzene	50.00000	53.19250	0.43896	0.010	6.38500	20.00000	Linear	
104	Methylcyclohexane	0.45070	0.43870	0.43870	0.010	-2.66377	20.00000	Averaged	
37	Dibromofluoromethane	0.28412	0.25907	0.25907	0.010	-8.81600	20.00000	Averaged	
45	1,2-Dichloroethane-D4	0.28900	0.28819	0.28819	0.010	-0.27929	20.00000	Averaged	
55	Toluene-D8	0.62521	0.57793	0.57793	0.010	-7.56228	20.00000	Averaged	
76	P-Bromofluorobenzene	0.26801	0.27595	0.27595	0.010	2.95986	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab ID : WG145321-4
Lab File ID : C7869.D
Initial Calibration Date(s): 06/09/14 11:06 06/09/14 15:05

SDG: WE53-7
Analytical Date: 06/24/14 07:53
Instrument ID: GCMS-C
Column ID:

*** = Compound out of QC criteria**

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7869.D
Report Date: 15-Jul-2014 12:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7869.D
Lab Smp Id: WG145321-4 Client Smp ID: ontinuing Calibrati
Inj Date : 24-JUN-2014 07:53
Operator : REC Inst ID: gcms-c.i
Smp Info : WG145321-4,WE53-7
Misc Info : WG145321,WG144357-4,SH4521-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

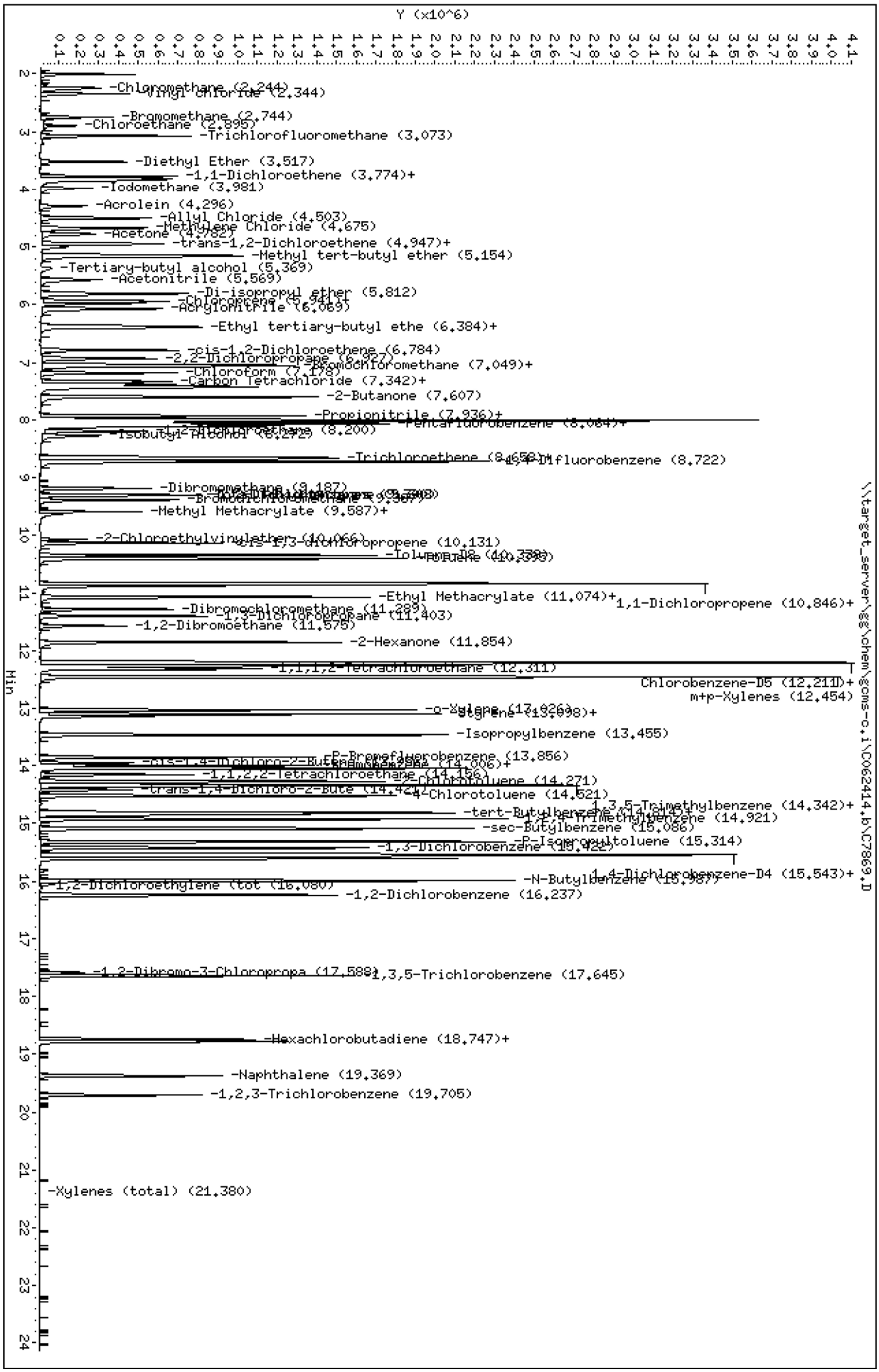
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.000	2.000	(0.248)	367290	50.0000	75.1	
2	Chloromethane	50	2.244	2.236	(0.278)	437506	50.0000	54.6	
3	Vinyl chloride	62	2.344	2.343	(0.291)	353260	50.0000	51.9	
4	Bromomethane	94	2.744	2.744	(0.340)	202288	50.0000	41.3	
5	Chloroethane	64	2.894	2.894	(0.359)	130566	50.0000	43.9	
6	Trichlorofluoromethane	101	3.073	3.080	(0.381)	601488	50.0000	57.5	
7	Diethyl Ether	59	3.516	3.509	(0.436)	231184	50.0000	56.8	
8	Tertiary-butyl alcohol	59	5.368	5.361	(0.666)	83182	250.000	265	
9	1,1-Dichloroethene	96	3.774	3.773	(0.468)	258469	50.0000	49.0	
10	Carbon Disulfide	76	3.809	3.809	(0.472)	845015	50.0000	53.5	
11	Freon-113	151	3.831	3.838	(0.475)	194734	50.0000	46.2	
12	Iodomethane	142	3.981	3.981	(0.494)	339032	50.0000	48.1	
13	Acrolein	56	4.296	4.288	(0.533)	241683	250.000	265	
14	Methylene Chloride	84	4.675	4.681	(0.580)	340691	50.0000	53.0	
15	Acetone	43	4.775	4.774	(0.592)	472401	250.000	290	
16	Isobutyl Alcohol	43	8.271	8.271	(1.026)	188740	1000.00	1160	
17	trans-1,2-Dichloroethene	96	4.946	4.946	(0.613)	306134	50.0000	48.8	
18	Allyl Chloride	41	4.503	4.502	(0.558)	422083	50.0000	48.3	
19	Methyl tert-butyl ether	73	5.154	5.153	(0.639)	1288840	100.000	109	
20	Acetonitrile	39	5.568	5.568	(0.691)	93481	500.000	572	
21	Di-isopropyl ether	45	5.811	5.811	(0.721)	781703	50.0000	47.9	
22	Chloroprene	53	5.940	5.940	(0.737)	412781	50.0000	49.2	
23	Propionitrile	54	7.985	7.985	(0.990)	447267	500.000	635	
24	Methacrylonitrile	41	8.014	8.013	(0.994)	1722981	500.000	603	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7869.D
Report Date: 15-Jul-2014 12:18

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.976	5.975	(0.741)	549549	50.0000	52.7	
	26	Acrylonitrile	52	6.069	6.068	(0.753)	466054	250.000	291	
	27	Ethyl tertiary-butyl ether	59	6.376	6.376	(0.791)	679219	50.0000	49.6	
	28	Vinyl Acetate	43	6.398	6.397	(0.734)	647398	50.0000	53.6	
	29	cis-1,2-Dichloroethene	96	6.784	6.783	(0.841)	327952	50.0000	49.0	
M	30	1,2-Dichloroethylene (total)	96				634086	50.0000	97.8	
	31	Methyl Methacrylate	41	9.587	9.586	(1.099)	218351	50.0000	47.3	
	32	2,2-Dichloropropane	77	6.927	6.934	(0.859)	424581	50.0000	52.4	
	33	Bromochloromethane	128	7.063	7.062	(0.876)	166990	50.0000	49.1	
	34	Chloroform	83	7.177	7.177	(0.890)	575668	50.0000	53.8	
	35	Carbon Tetrachloride	117	7.342	7.341	(0.842)	455682	50.0000	54.5	
	36	Tetrahydrofuran	42	7.384	7.384	(0.916)	414462	250.000	330	
$	37	Dibromofluoromethane	113	7.427	7.427	(0.921)	298026	50.0000	45.6	
	38	1,1,1-Trichloroethane	97	7.434	7.441	(0.922)	520187	50.0000	54.5	
	39	1,1-Dichloropropene	75	10.888	10.888	(1.248)	417391	50.0000	54.9	
	40	2-Butanone	43	7.606	7.606	(0.943)	689007	250.000	343	
	41	Benzene	78	7.935	7.935	(0.910)	1171298	50.0000	51.1	
*	42	Pentafluorobenzene	168	8.064	8.063	(1.000)	1150363	50.0000		
	43	Cyclohexane	56	7.048	7.048	(0.874)	489456	50.0000	55.0	
	44	Ethyl Methacrylate	69	11.074	11.081	(1.270)	339586	50.0000	48.2	
$	45	1,2-Dichloroethane-D4	65	8.114	8.113	(1.006)	331526	50.0000	49.9	
	46	Tertiary-amyl methyl ether	73	8.099	8.099	(1.004)	577742	50.0000	49.3	
	47	1,2-Dichloroethane	62	8.200	8.199	(0.940)	417759	50.0000	55.3	
	48	Trichloroethene	95	8.671	8.670	(0.994)	315020	50.0000	50.4	
*	49	1,4-Difluorobenzene	114	8.722	8.721	(1.000)	1680504	50.0000		
	50	Dibromomethane	93	9.186	9.186	(1.053)	195164	50.0000	49.5	
	51	1,2-Dichloropropane	63	9.308	9.307	(1.067)	284805	50.0000	51.4	
	52	Bromodichloromethane	83	9.386	9.386	(1.076)	419097	50.0000	53.4	
	53	cis-1,3-dichloropropene	75	10.130	10.130	(1.161)	481077	50.0000	54.3	
	54	1,4-Dioxane	88	9.630	9.629	(1.104)	71969	1000.00	990	
$	55	Toluene-D8	98	10.337	10.344	(1.185)	971219	50.0000	46.2	
	56	2-Chloroethylvinylether	63	10.066	10.065	(1.154)	86220	50.0000	45.8	
	57	Toluene	92	10.395	10.401	(1.192)	759891	50.0000	50.5	
	58	4-methyl-2-pentanone	43	10.845	10.845	(1.243)	1314897	250.000	366	
	59	Tetrachloroethene	164	10.838	10.845	(0.888)	316302	50.0000	47.7	
	60	trans-1,3-Dichloropropene	75	10.888	10.888	(1.248)	417391	50.0000	54.9	
	61	1,1,2-Trichloroethane	83	11.074	11.073	(1.270)	243260	50.0000	53.3	
	62	Dibromochloromethane	129	11.288	11.288	(0.924)	349038	50.0000	52.8	
	63	1,3-Dichloropropane	76	11.403	11.402	(0.934)	483785	50.0000	53.0	
	64	1,2-Dibromoethane	107	11.574	11.574	(1.327)	294702	50.0000	50.0	
	65	2-Hexanone	43	11.853	11.860	(0.971)	969760	250.000	341	
*	66	Chlorobenzene-D5	117	12.211	12.210	(1.000)	1686639	50.0000		
	67	Chlorobenzene	112	12.232	12.232	(1.002)	850812	50.0000	49.7	
	152	1-Chlorohexane	91	12.204	12.203	(0.999)	499030	50.0000	49.1	
	68	Ethylbenzene	106	12.268	12.268	(1.005)	495655	50.0000	49.6	
	69	1,1,1,2-Tetrachloroethane	131	12.311	12.318	(1.008)	337896	50.0000	49.5	
M	70	Xylenes (total)	106				1732112	150.000	156	
	71	m+p-Xylenes	106	12.454	12.453	(1.020)	1192880	100.000	106	
	72	o-Xylene	106	13.026	13.025	(1.067)	539232	50.0000	51.1	
	73	Styrene	104	13.097	13.097	(1.073)	999029	50.0000	55.2	
	74	Bromoform	173	13.133	13.140	(1.076)	248853	50.0000	53.3	
	75	Isopropylbenzene	105	13.455	13.462	(0.866)	1438755	50.0000	47.8	
$	76	P-Bromofluorobenzene	95	13.855	13.855	(1.589)	463729	50.0000	51.5	
	77	cis-1,4-Dichloro-2-Butene	53	13.955	13.962	(0.898)	108891	50.0000	51.5	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7869.D
Report Date: 15-Jul-2014 12:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
78	trans-1,4-Dichloro-2-Butene	53	14.420	14.420	(0.928)	105711	50.0000	53.7	
79	Bromobenzene	156	14.005	14.005	(0.901)	456283	50.0000	51.4	
80	N-Propylbenzene	91	14.048	14.048	(0.904)	1788313	50.0000	52.1	
81	1,1,2,2-Tetrachloroethane	83	14.156	14.155	(0.911)	419045	50.0000	58.4	
82	1,3,5-Trimethylbenzene	105	14.334	14.341	(0.922)	1422697	50.0000	52.4	
83	2-Chlorotoluene	91	14.270	14.277	(0.918)	1083075	50.0000	55.9	
84	1,2,3-Trichloropropane	75	14.349	14.355	(0.923)	338510	50.0000	61.0	
85	4-Chlorotoluene	91	14.520	14.520	(0.934)	1104034	50.0000	57.0	
86	tert-Butylbenzene	119	14.813	14.813	(0.953)	1362710	50.0000	54.6	
87	Pentachloroethane	117	14.842	14.849	(0.955)	313767	50.0000	53.1	
88	1,2,4-Trimethylbenzene	105	14.921	14.927	(0.960)	1402406	50.0000	52.8	
89	P-Isopropyltoluene	119	15.314	15.313	(0.985)	1487382	50.0000	51.2	
90	1,3-Dichlorobenzene	146	15.421	15.421	(0.992)	788182	50.0000	51.8	
* 91	1,4-Dichlorobenzene-D4	152	15.543	15.542	(1.000)	1013294	50.0000		
92	1,4-Dichlorobenzene	146	15.564	15.564	(1.001)	863548	50.0000	50.4	
93	N-Butylbenzene	91	15.986	15.993	(1.029)	1480348	50.0000	54.7	
94	sec-Butylbenzene	105	15.085	15.092	(0.971)	1710699	50.0000	51.2	
95	1,2-Dichlorobenzene	146	16.236	16.242	(1.045)	712467	50.0000	52.3	
96	1,2-Dibromo-3-Chloropropane	75	17.588	17.594	(1.132)	63705	50.0000	60.9	
97	1,3,5-Trichlorobenzene	180	17.645	17.644	(1.135)	595745	50.0000	47.9	
98	Hexachlorobutadiene	225	18.746	18.746	(1.206)	247024	50.0000	49.6	
99	1,2,4-Trichlorobenzene	180	18.782	18.788	(1.208)	444797	50.0000	53.2	
100	1,2,3-Trimethylbenzene	105	15.607	15.607	(1.004)	1309287	50.0000	51.8	
101	Naphthalene	128	19.368	19.375	(1.246)	813115	50.0000	60.4	
102	1,2,3-Trichlorobenzene	180	19.704	19.711	(1.268)	292040	50.0000	65.2	
103	Methyl Acetate	43	5.003	4.996	(0.621)	198824	50.0000	54.1	
104	Methylcyclohexane	83	8.650	8.650	(1.073)	504663	50.0000	48.7	
M 153	Total Alkylbenzenes	100				10654555	50.0000	369	


Y (x10^6)
Min
-Chloromethane (2.244)
Vinyl chloride (2.344)
-Bromomethane (2.744)
-Chloroethane (2.895)
-Trichlorofluoromethane (3.073)
-Diethyl Ether (3.517)
-1,1-Dichloroethene (3.774)+
-Iodomethane (3.981)
-Acrolein (4.296)
-Allyl Chloride (4.503)
-Methylene Chloride (4.675)
-Acetone (4.782)
-trans-1,2-Dichloroethene (4.947)+
-Methyl tert-butyl ether (5.154)
-Tertiary-butyl alcohol (5.369)
-Acetonitrile (5.569)
-Di-isopropyl ether (5.812)
-Acrylonitrile (6.069)
-Ethyl tertiary-butyl ethe (6.384)+
-cis-1,2-Dichloroethene (6.784)
-Bromochloromethane (7.049)+
-Chloroform (7.178)
-Carbon Tetrachloride (7.342)+
-2-Butanone (7.607)
-Propionitrile (7.936)+
-Isobutyl Alcohol (8.200)
-Trichloroethene (8.656)+
4,4-Difluorobenzene (8.722)
-Dibromomethane (9.187)
-Methyl Methacrylate (9.587)+
-2-Chloroethylvinylether (10.066)
cis-1,3-Dichloropropene (10.131)
-Toluene-D8 (10.338)
Toluene (10.393)
-Ethyl Methacrylate (11.074)+
1,1-Dichloropropene (10.846)+
-Dibromochloromethane (11.288)
-1,3-Dichloropropane (11.403)
-1,2-Dibromoethane (11.575)
-2-Hexanone (11.854)
-1,1,1,2-Tetrachloroethane (12.311)
Chlorobenzene-D5 (12.211)+
m+p-Xylenes (12.454)
-o-Xylene (13.098)+
-Isopropylbenzene (13.455)
-Bromofluorobenzene (13.856)
-1,1,2,2-Tetrachloroethane (14.156)
-Chlorotoluene (14.271)
-trans-1,4-Dichloro-2-Bute (14.422)+
4-Chlorotoluene (14.521)
1,3,5-Trimethylbenzene (14.342)+
-tert-Butylbenzene (14.814)+
1,2,4-Trimethylbenzene (14.921)
-sec-Butylbenzene (15.086)
-P-Isopropyltoluene (15.314)
-1,3-Dichlorobenzene (15.422)
1,4-Dichlorobenzene-D4 (15.543)+
-N-Butylbenzene (15.987)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.237)
-1,2-Dibromo-3-Chloropropa (17.589)
1,3,5-Trichlorobenzene (17.645)
-Hexachlorobutadiene (18.747)+
-Naphthalene (19.369)
-1,2,3-Trichlorobenzene (19.705)
-Xylenes (total) (21.380)
Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7869.D
Date : 24-JUN-2014 07:53
Client ID: ontinuing Calibrati
Sample Info: WG145321-4,WE53-7
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C062414.b\C7869.D

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53 **SDG:** WE53-7
Lab ID : WG145586-4 **Analytical Date:** 06/28/14 08:35
Lab File ID : D9205.D **Instrument ID:** GCMS-D
Initial Calibration Date(s): 06/11/14 14:03 06/11/14 17:18 **Column ID:**

	Compound	$\overline{\text{RRF}}$/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
2	Chloromethane	50.00000	48.32864	0.52943	0.100	-3.34271	20.00000	Linear	
3	Vinyl chloride	0.66650	0.56971	0.56971	0.010	-14.52211	20.00000	Averaged	
5	Chloroethane	50.00000	46.44781	0.41017	0.010	-7.10438	20.00000	Quadratic	
9	1,1-Dichloroethene	0.44030	0.34881	0.34881	0.100	-20.77979	20.00000	Averaged	*
14	Methylene Chloride	50.00000	45.22904	0.48375	0.010	-9.54193	20.00000	Linear	
15	Acetone	0.12547	0.11014	0.11014	0.010	-12.21595	20.00000	Averaged	
17	trans-1,2-Dichloroethene	0.50276	0.40881	0.40881	0.010	-18.68703	20.00000	Averaged	
19	Methyl tert-butyl ether	100	80.93158	0.82384	0.010	-19.06842	20.00000	Linear	
25	1,1-Dichloroethane	0.90695	0.77667	0.77667	0.100	-14.36429	20.00000	Averaged	
29	cis-1,2-Dichloroethene	0.53560	0.46651	0.46651	0.010	-12.89864	20.00000	Averaged	
34	Chloroform	0.89293	0.78265	0.78265	0.010	-12.35014	20.00000	Averaged	
35	Carbon Tetrachloride	0.35084	0.32209	0.32209	0.010	-8.19220	20.00000	Averaged	
38	1,1,1-Trichloroethane	0.70462	0.64402	0.64402	0.010	-8.60027	20.00000	Averaged	
41	Benzene	1.29448	1.12449	1.12449	0.010	-13.13208	20.00000	Averaged	
47	1,2-Dichloroethane	0.39798	0.35350	0.35350	0.010	-11.17710	20.00000	Averaged	
48	Trichloroethene	0.30716	0.27635	0.27635	0.010	-10.03056	20.00000	Averaged	
57	Toluene	0.77407	0.71824	0.71824	0.010	-7.21277	20.00000	Averaged	
59	Tetrachloroethene	0.25670	0.22969	0.22969	0.010	-10.52199	20.00000	Averaged	
61	1,1,2-Trichloroethane	0.24203	0.23504	0.23504	0.010	-2.88765	20.00000	Averaged	
65	2-Hexanone	250	252	0.16246	0.010	0.84395	20.00000	Linear	
67	Chlorobenzene	0.87082	0.83819	0.83819	0.300	-3.74685	20.00000	Averaged	
68	Ethylbenzene	0.46638	0.40324	0.40324	0.010	-13.53811	20.00000	Averaged	
70	Xylenes (total)	++++	0.53081	0.53081	0.010	++++	20.00000	Averaged	*
71	m+p-Xylenes	0.54987	0.54389	0.54389	0.010	-1.08694	20.00000	Averaged	
72	o-Xylene	50.00000	47.24654	0.50463	0.010	-5.50692	20.00000	Linear	
73	Styrene	50.00000	42.86936	0.83645	0.010	-14.26128	20.00000	Linear	
75	Isopropylbenzene	1.86607	2.00552	2.00552	0.010	7.47244	20.00000	Averaged	
81	1,1,2,2-Tetrachloroethane	0.72383	0.67731	0.67731	0.300	-6.42712	20.00000	Averaged	
90	1,3-Dichlorobenzene	1.07751	1.09677	1.09677	0.010	1.78796	20.00000	Averaged	
92	1,4-Dichlorobenzene	1.32417	1.14020	1.14020	0.010	-13.89295	20.00000	Averaged	
95	1,2-Dichlorobenzene	1.09073	1.12326	1.12326	0.010	2.98194	20.00000	Averaged	
99	1,2,4-Trichlorobenzene	50.00000	46.10836	0.64957	0.010	-7.78329	20.00000	Linear	
104	Methylcyclohexane	0.53381	0.51359	0.51359	0.010	-3.78669	20.00000	Averaged	
37	Dibromofluoromethane	0.47284	0.45381	0.45381	0.010	-4.02607	20.00000	Averaged	
45	1,2-Dichloroethane-D4	0.56188	0.50609	0.50609	0.010	-9.92885	20.00000	Averaged	
55	Toluene-D8	1.00786	1.04087	1.04087	0.010	3.27516	20.00000	Averaged	
76	P-Bromofluorobenzene	0.37631	0.39778	0.39778	0.010	5.70600	20.00000	Averaged	

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : NCTAMSLANT Cutler CTO WE53
Lab ID : WG145586-4
Lab File ID : D9205.D
Initial Calibration Date(s): 06/11/14 14:03 06/11/14 17:18

SDG: WE53-7
Analytical Date: 06/28/14 08:35
Instrument ID: GCMS-D
Column ID:

*** = Compound out of QC criteria**

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://katahdinlab.com
sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9205.D
Report Date: 15-Jul-2014 12:27

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D062814.b\D9205.D
Lab Smp Id: WG145586-4 Client Smp ID: ontinuing Calibrati
Inj Date : 28-JUN-2014 08:35 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG145586-4,WE53-7
Misc Info : WG145586,WG144515-4,SH4521-18
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D062814.b\D826A48.m
Meth Date : 30-Jun-2014 06:27 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 15:07 Cal File: D8863.D
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

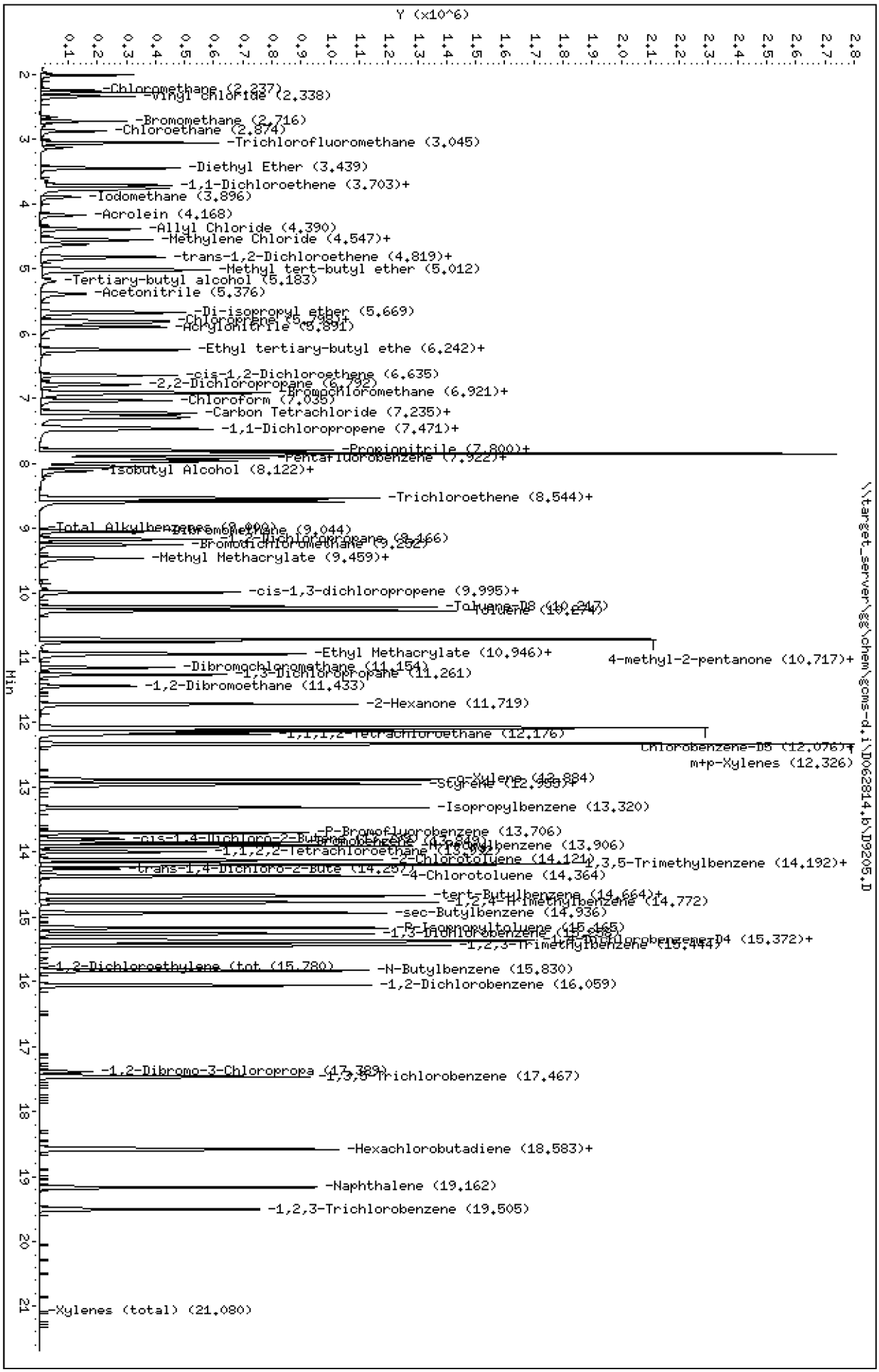
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.008	2.011	(0.254)	204313	50.0000	42.1	
2 Chloromethane	50	2.237	2.233	(0.282)	241575	50.0000	48.3	
3 Vinyl chloride	62	2.337	2.333	(0.295)	259954	50.0000	42.7	
4 Bromomethane	94	2.716	2.712	(0.343)	137688	50.0000	38.2	
5 Chloroethane	64	2.873	2.869	(0.363)	187158	50.0000	46.4	
6 Trichlorofluoromethane	101	3.045	3.048	(0.384)	425422	50.0000	46.4	
7 Diethyl Ether	59	3.438	3.441	(0.434)	180393	50.0000	50.2	
8 Tertiary-butyl alcohol	59	5.183	5.186	(0.654)	68078	250.000	264	
9 1,1-Dichloroethene	96	3.703	3.705	(0.467)	159158	50.0000	39.6	
10 Carbon Disulfide	76	3.738	3.741	(0.472)	600253	50.0000	45.0	
11 Freon-113	151	3.767	3.770	(0.476)	91201	50.0000	41.0	
12 Iodomethane	142	3.896	3.891	(0.492)	151194	50.0000	49.5	
13 Acrolein	56	4.167	4.170	(0.526)	151976	250.000	232	
14 Methylene Chloride	84	4.546	4.549	(0.574)	220732	50.0000	45.2	
15 Acetone	43	4.618	4.621	(0.583)	251289	250.000	219	
16 Isobutyl Alcohol	43	8.121	8.117	(1.025)	107533	1000.00	1180	
17 trans-1,2-Dichloroethene	96	4.818	4.821	(0.608)	186535	50.0000	40.6	
18 Allyl Chloride	41	4.389	4.392	(0.554)	225650	50.0000	43.8	
19 Methyl tert-butyl ether	73	5.011	5.014	(0.633)	751822	100.000	80.9	
20 Acetonitrile	39	5.376	5.379	(0.679)	44917	500.000	478	
21 Di-isopropyl ether	45	5.669	5.672	(0.716)	488238	50.0000	44.7	
22 Chloroprene	53	5.798	5.800	(0.732)	233552	50.0000	46.1	
23 Propionitrile	54	7.814	7.824	(0.986)	318349	500.000	498	

Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9205.D
Report Date: 15-Jul-2014 12:27

			QUANT SIG					AMOUNTS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	7.850	7.860	(0.991)	1162331	500.000	509	
	25	1,1-Dichloroethane	63	5.826	5.829	(0.736)	354387	50.0000	42.8	
	26	Acrylonitrile	52	5.891	5.893	(0.744)	317272	250.000	248	
	27	Ethyl tertiary-butyl ether	59	6.241	6.237	(0.788)	258171	50.0000	43.7	
	28	Vinyl Acetate	43	6.241	6.244	(0.727)	372944	50.0000	43.4	
	29	cis-1,2-Dichloroethene	96	6.634	6.637	(0.838)	212865	50.0000	43.6	
M	30	1,2-Dichloroethylene (total)	96				399400	50.0000	84.2	
	31	Methyl Methacrylate	41	9.459	9.454	(1.102)	132192	50.0000	51.4	
	32	2,2-Dichloropropane	77	6.792	6.787	(0.857)	234164	50.0000	46.0	
	33	Bromochloromethane	128	6.913	6.916	(0.873)	106677	50.0000	46.5	
	34	Chloroform	83	7.035	7.037	(0.888)	357115	50.0000	43.8	
	35	Carbon Tetrachloride	117	7.213	7.216	(0.840)	243734	50.0000	45.9	
	36	Tetrahydrofuran	42	7.235	7.238	(0.913)	255843	250.000	233	
$	37	Dibromofluoromethane	113	7.278	7.281	(0.919)	207067	50.0000	48.0	
	38	1,1,1-Trichloroethane	97	7.306	7.302	(0.922)	293859	50.0000	45.7	
	39	1,1-Dichloropropene	75	7.471	7.474	(0.870)	275359	50.0000	46.1	
	40	2-Butanone	43	7.442	7.445	(0.940)	421645	250.000	228	
	41	Benzene	78	7.793	7.795	(0.908)	850920	50.0000	43.4	
*	42	Pentafluorobenzene	168	7.921	7.931	(1.000)	456290	50.0000		
	43	Cyclohexane	56	6.927	6.930	(0.875)	270298	50.0000	45.7	
	44	Ethyl Methacrylate	69	10.953	10.956	(1.276)	255598	50.0000	57.2	
$	45	1,2-Dichloroethane-D4	65	7.964	7.967	(1.005)	230923	50.0000	45.0	
	46	Tertiary-amyl methyl ether	73	7.971	7.974	(1.006)	215157	50.0000	44.8	
	47	1,2-Dichloroethane	62	8.050	8.053	(0.938)	267500	50.0000	44.4	
	48	Trichloroethene	95	8.543	8.545	(0.995)	209117	50.0000	45.0	
*	49	1,4-Difluorobenzene	114	8.586	8.589	(1.000)	756716	50.0000		
	50	Dibromomethane	93	9.044	9.047	(1.053)	137271	50.0000	45.7	
	51	1,2-Dichloropropane	63	9.165	9.168	(1.067)	203270	50.0000	45.3	
	52	Bromodichloromethane	83	9.251	9.254	(1.077)	284763	50.0000	48.2	
	53	cis-1,3-dichloropropene	75	9.995	9.998	(1.164)	353968	50.0000	45.0	
	54	1,4-Dioxane	88	9.494	9.497	(1.106)	41470	1000.00	1010	
$	55	Toluene-D8	98	10.216	10.219	(1.190)	787646	50.0000	51.6	
	56	2-Chloroethylvinylether	63	9.930	9.933	(1.157)	9845	50.0000	16.4	
	57	Toluene	92	10.274	10.276	(1.197)	543504	50.0000	46.4	
	58	4-methyl-2-pentanone	43	10.710	10.713	(1.247)	880056	250.000	258	
	59	Tetrachloroethene	164	10.724	10.727	(0.889)	173785	50.0000	44.7	
	60	trans-1,3-Dichloropropene	75	10.753	10.755	(1.252)	293429	50.0000	45.6	
	61	1,1,2-Trichloroethane	83	10.939	10.941	(1.274)	177856	50.0000	48.6	
	62	Dibromochloromethane	129	11.153	11.156	(0.924)	226209	50.0000	49.0	
	63	1,3-Dichloropropane	76	11.260	11.263	(0.933)	367559	50.0000	46.5	
	64	1,2-Dibromoethane	107	11.432	11.435	(1.331)	202614	50.0000	48.1	
	65	2-Hexanone	43	11.718	11.721	(0.971)	614599	250.000	252	
*	66	Chlorobenzene-D5	117	12.068	12.071	(1.000)	756615	50.0000		
	67	Chlorobenzene	112	12.090	12.100	(1.002)	634187	50.0000	48.1	
	152	1-Chlorohexane	91	12.076	12.078	(1.001)	286943	50.0000	46.3	
	68	Ethylbenzene	106	12.133	12.143	(1.005)	305099	50.0000	43.2	
	69	1,1,1,2-Tetrachloroethane	131	12.176	12.178	(1.009)	204309	50.0000	47.6	
M	70	Xylenes (total)	106				1204845	150.000	146	
	71	m+p-Xylenes	106	12.326	12.329	(1.021)	823038	100.000	98.9	
	72	o-Xylene	106	12.883	12.893	(1.068)	381807	50.0000	47.2	
	73	Styrene	104	12.955	12.958	(1.073)	632874	50.0000	42.9	
	74	Bromoform	173	12.984	12.986	(1.076)	147372	50.0000	43.2	
	75	Isopropylbenzene	105	13.320	13.322	(0.867)	888955	50.0000	53.7	
$	76	P-Bromofluorobenzene	95	13.706	13.708	(1.596)	301006	50.0000	52.8	

Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9205.D
Report Date: 15-Jul-2014 12:27

		QUANT SIG					AMOUNTS		
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/l)	ON-COL (ug/l)	REVIEW CODE
	77 cis-1,4-Dichloro-2-Butene	53	13.799	13.801	(0.898)	60514	50.0000	48.2	
	78 trans-1,4-Dichloro-2-Butene	53	14.256	14.259	(0.927)	56205	50.0000	46.3	
	79 Bromobenzene	156	13.849	13.859	(0.901)	248494	50.0000	46.5	
	80 N-Propylbenzene	91	13.906	13.909	(0.905)	1067127	50.0000	54.3	
	81 1,1,2,2-Tetrachloroethane	83	13.992	13.994	(0.910)	300221	50.0000	46.8	
	82 1,3,5-Trimethylbenzene	105	14.192	14.202	(0.923)	758414	50.0000	45.3	
	83 2-Chlorotoluene	91	14.120	14.123	(0.919)	686543	50.0000	52.0	
	84 1,2,3-Trichloropropane	75	14.185	14.188	(0.923)	238678	50.0000	46.8	
	85 4-Chlorotoluene	91	14.364	14.373	(0.934)	729819	50.0000	53.2	
	86 tert-Butylbenzene	119	14.664	14.667	(0.954)	726635	50.0000	47.5	
	87 Pentachloroethane	117	14.685	14.688	(0.955)	178189	50.0000	50.7	
	88 1,2,4-Trimethylbenzene	105	14.771	14.774	(0.961)	777522	50.0000	45.6	
	89 P-Isopropyltoluene	119	15.164	15.167	(0.987)	725796	50.0000	47.8	
	90 1,3-Dichlorobenzene	146	15.257	15.260	(0.993)	486150	50.0000	50.9	
*	91 1,4-Dichlorobenzene-D4	152	15.372	15.374	(1.000)	443255	50.0000		
	92 1,4-Dichlorobenzene	146	15.393	15.403	(1.001)	505401	50.0000	43.0	
	93 N-Butylbenzene	91	15.829	15.832	(1.030)	662160	50.0000	47.1	
	94 sec-Butylbenzene	105	14.936	14.938	(0.972)	881252	50.0000	51.4	
	95 1,2-Dichlorobenzene	146	16.058	16.068	(1.045)	497890	50.0000	51.5	
	96 1,2-Dibromo-3-Chloropropane	75	17.388	17.390	(1.131)	50847	50.0000	51.3	
	97 1,3,5-Trichlorobenzene	180	17.467	17.469	(1.136)	318997	50.0000	51.8	
	98 Hexachlorobutadiene	225	18.568	18.578	(1.208)	104734	50.0000	40.9	
	99 1,2,4-Trichlorobenzene	180	18.589	18.592	(1.209)	287927	50.0000	46.1	
	100 1,2,3-Trimethylbenzene	105	15.443	15.453	(1.005)	852325	50.0000	49.7	
	101 Naphthalene	128	19.168	19.171	(1.247)	821512	50.0000	50.8	
	102 1,2,3-Trichlorobenzene	180	19.505	19.507	(1.269)	264794	50.0000	49.6	
	103 Methyl Acetate	43	4.847	4.842	(0.612)	121701	50.0000	47.4	
	104 Methylcyclohexane	83	8.536	8.539	(1.078)	234348	50.0000	48.1	
M	153 Total Alkylbenzenes	100				5598906	50.0000	339	


Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9205.D
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Client ID: ontinuing Calibrati
Sample Info: WG145586-4,WE53-7
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18
\\target_server\gg\chem\gcms-d.i\D062814.b\D9205.D
Y (x10^6)
Min
-Chloromethane (2.237)
-Vinyl Chloride (2.338)
-Bromomethane (2.716)
-Chloroethane (2.874)
-Trichlorofluoromethane (3.045)
-Diethyl Ether (3.439)
-1,1-Dichloroethene (3.703)+
-Iodomethane (3.896)
-Acrolein (4.168)
-Allyl Chloride (4.390)
-Methylene Chloride (4.547)+
-trans-1,2-Dichloroethene (4.819)+
-Methyl tert-butyl ether (5.012)
-Tertiary-butyl alcohol (5.183)
-Acetonitrile (5.376)
-Di-isopropyl ether (5.669)
-Acrylonitrile (5.891)
-Ethyl tertiary-butyl ethe (6.242)+
-cis-1,2-Dichloroethene (6.635)
-2,2-Dichloropropane (6.792)
-Bromochloromethane (6.921)+
-Chloroform (7.035)
-Carbon Tetrachloride (7.235)+
-1,1-Dichloropropene (7.471)+
-Propionitrile (7.800)+
-Pentafluorobenzene (7.922)+
-Isobutyl Alcohol (8.122)+
-Trichloroethene (8.544)+
-Dibromomethane (9.044)
-1,2-Dichloropropane (9.166)
-Bromodichloromethane (9.262)
-Methyl Methacrylate (9.459)+
-cis-1,3-dichloropropene (9.995)+
-Toluene-D8 (10.247)
-Toluene (10.674)
-Ethyl Methacrylate (10.946)+
4-methyl-2-pentanone (10.717)+
-Dibromochloromethane (11.154)
-1,3-Dichloropropane (11.261)
-1,2-Dibromoethane (11.433)
-2-Hexanone (11.719)
-1,1,1,2-Tetrachloroethane (12.176)
Chlorobenzene-D5 (12.076)+
m+p-Xylenes (12.326)
-o-Xylene (12.884)
-Styrene (12.959)+
-Isopropylbenzene (13.320)
-P-Bromofluorobenzene (13.706)
-cis-1,4-Dichloro-2-Butene (13.760)
-Bromobenzene (13.810)
-n-Propylbenzene (13.906)
-1,1,2,2-Tetrachloroethane (13.992)
-2-Chlorotoluene (14.121)+
1,3,5-Trimethylbenzene (14.192)+
-trans-1,4-Dichloro-2-Bute (14.257)
-4-Chlorotoluene (14.364)
-tert-Butylbenzene (14.664)+
-1,2,4-Trimethylbenzene (14.772)
-sec-Butylbenzene (14.936)
-P-Isopropyltoluene (15.165)
-1,3-Dichlorobenzene (15.258)
-4-Dichlorobenzene-D4 (15.372)+
-1,2,3-Trimethylbenzene (15.444)
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.830)
-1,2-Dichlorobenzene (16.059)
-1,2-Dibromo-3-Chloropropa (17.389)
-1,3,5-Trichlorobenzene (17.467)
-Hexachlorobutadiene (18.583)+
-Naphthalene (19.162)
-1,2,3-Trichlorobenzene (19.505)
-Xylenes (total) (21.080)

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Date : 09-JUN-2014 10:43

Client ID:

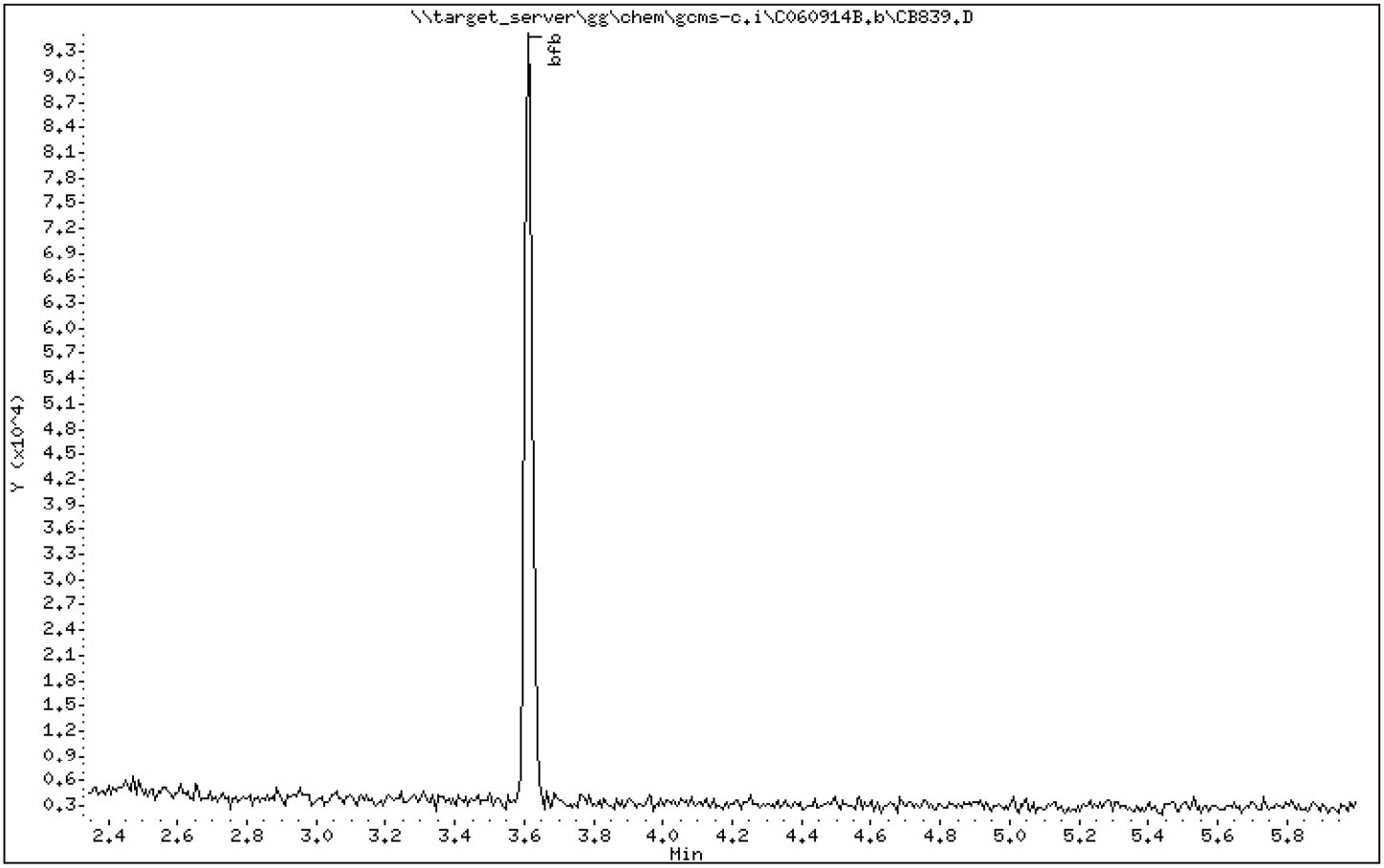
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Sample Info: WG144357-10,WE53-7

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



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Date : 09-JUN-2014 10:43

Client ID:

Instrument: gcms-c.i

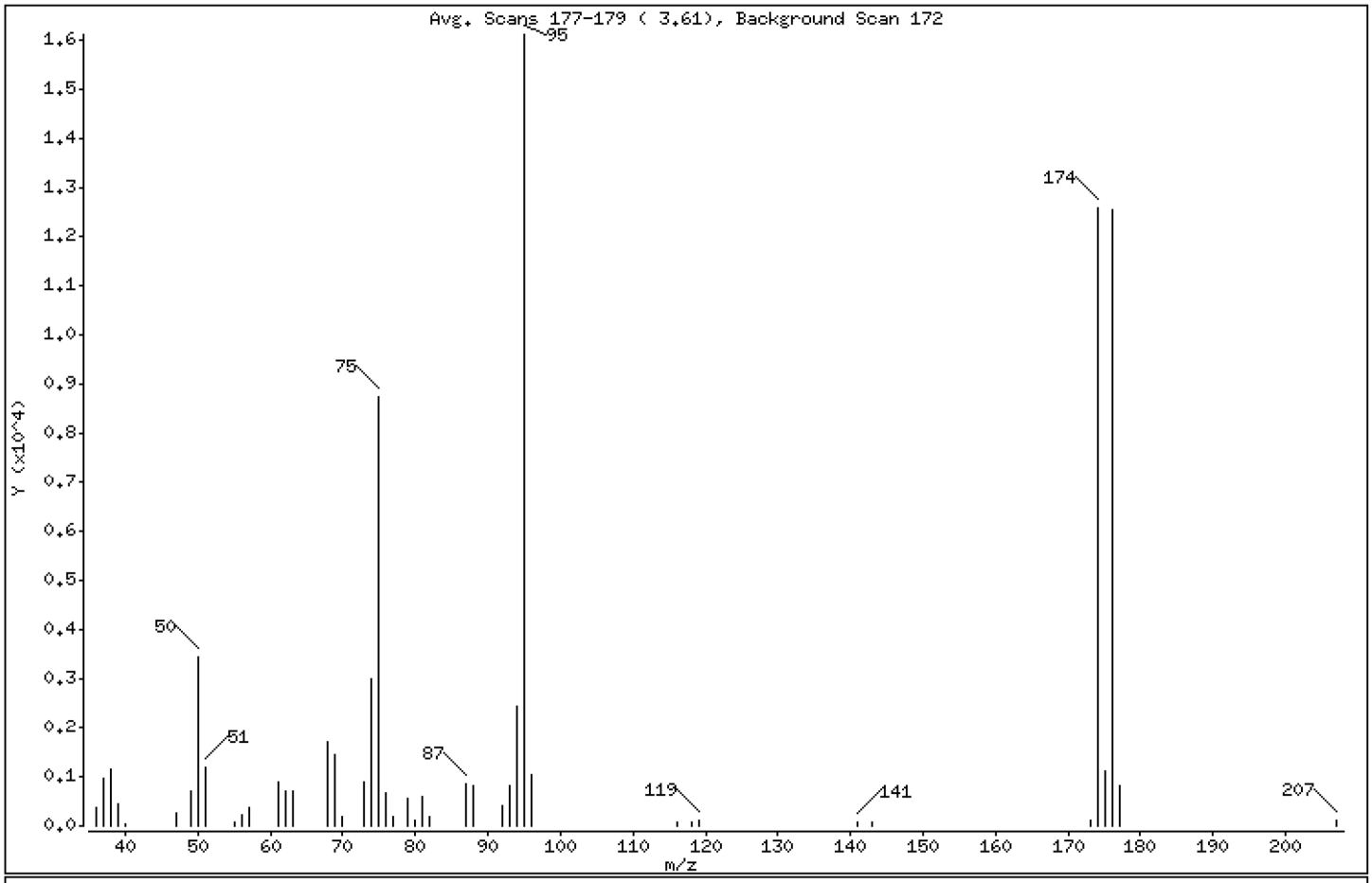
Sample Info: WG144357-10,WE53-7

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.39
75	30.00 - 60.00% of mass 95	54.30
96	5.00 - 9.00% of mass 95	6.35
173	Less than 2.00% of mass 174	0.70 (0.90)
174	Greater than 50.00% of mass 95	78.06
175	5.00 - 9.00% of mass 174	6.85 (8.77)
176	95.00 - 101.00% of mass 174	77.90 (99.79)
177	5.00 - 9.00% of mass 176	5.08 (6.52)

Date : 09-JUN-2014 10:43

Client ID: Instrument: gcms-c.i

Sample Info: WG144357-10,WE53-7

Operator: REC

Column phase: RTX-VMS Column diameter: 0.18

Data File: CB839.D
Spectrum: Avg. Scans 177-179 (3.61), Background Scan 172
Location of Maximum: 95.00
Number of points: 45

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	386	61.00	881	80.00	110	119.00	120
37.00	962	62.00	703	81.00	592	141.00	83
38.00	1158	63.00	702	82.00	192	143.00	81
39.00	427	68.00	1708	87.00	839	173.00	113
40.00	36	69.00	1460	88.00	818	174.00	12570
47.00	261	70.00	173	92.00	402	175.00	1103
49.00	693	73.00	901	93.00	820	176.00	12544
50.00	3445	74.00	2998	94.00	2425	177.00	818
51.00	1192	75.00	8744	95.00	16103	207.00	125
55.00	76	76.00	661	96.00	1023		
56.00	210	77.00	172	116.00	70		
57.00	354	79.00	545	118.00	90		

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\CB852.D

Date : 23-JUN-2014 08:04

Client ID:

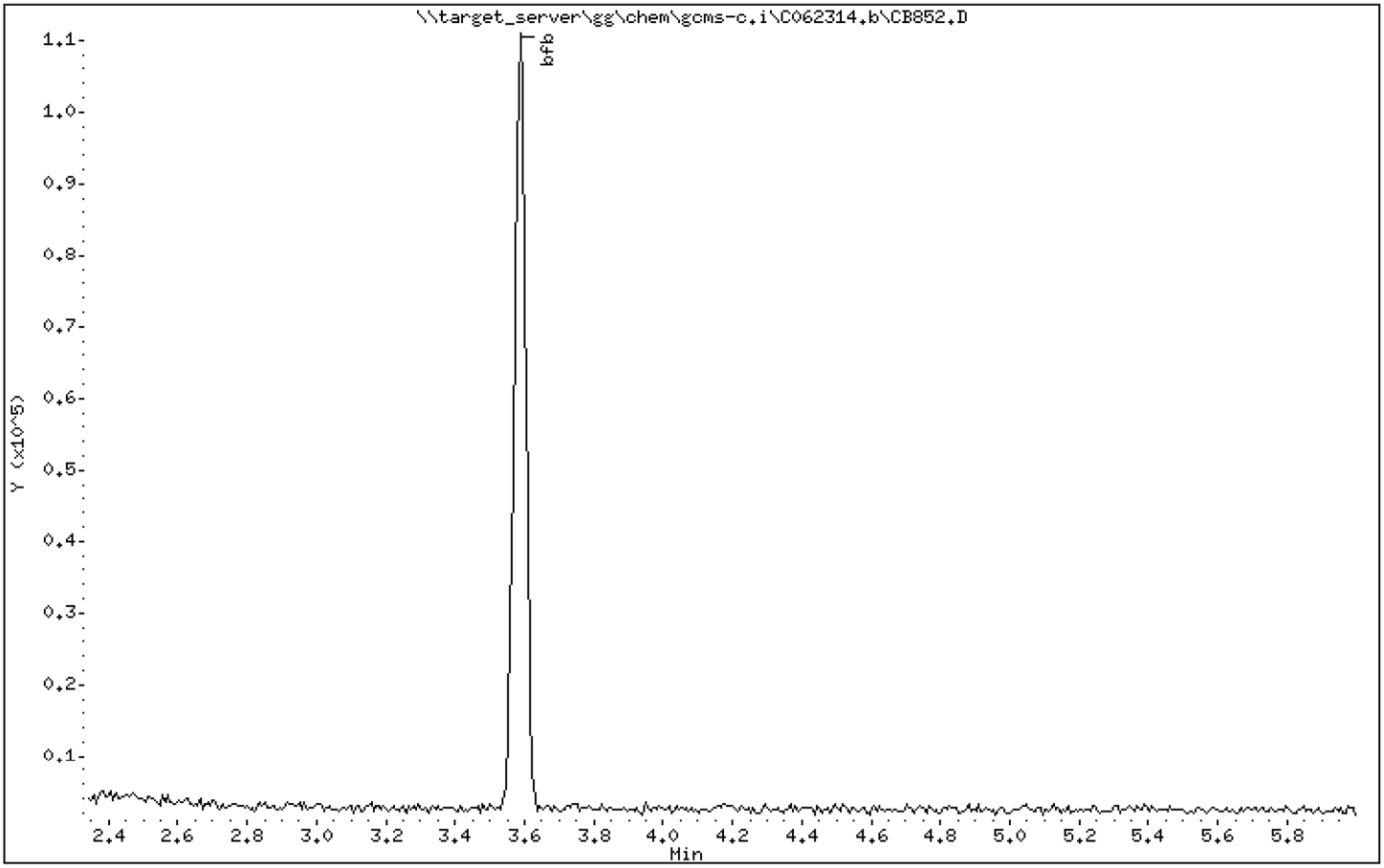
Instrument: gcms-c.i

Sample Info: WG145261-3,WE53-7

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\CB852.D

Date : 23-JUN-2014 08:04

Client ID:

Instrument: gcms-c.i

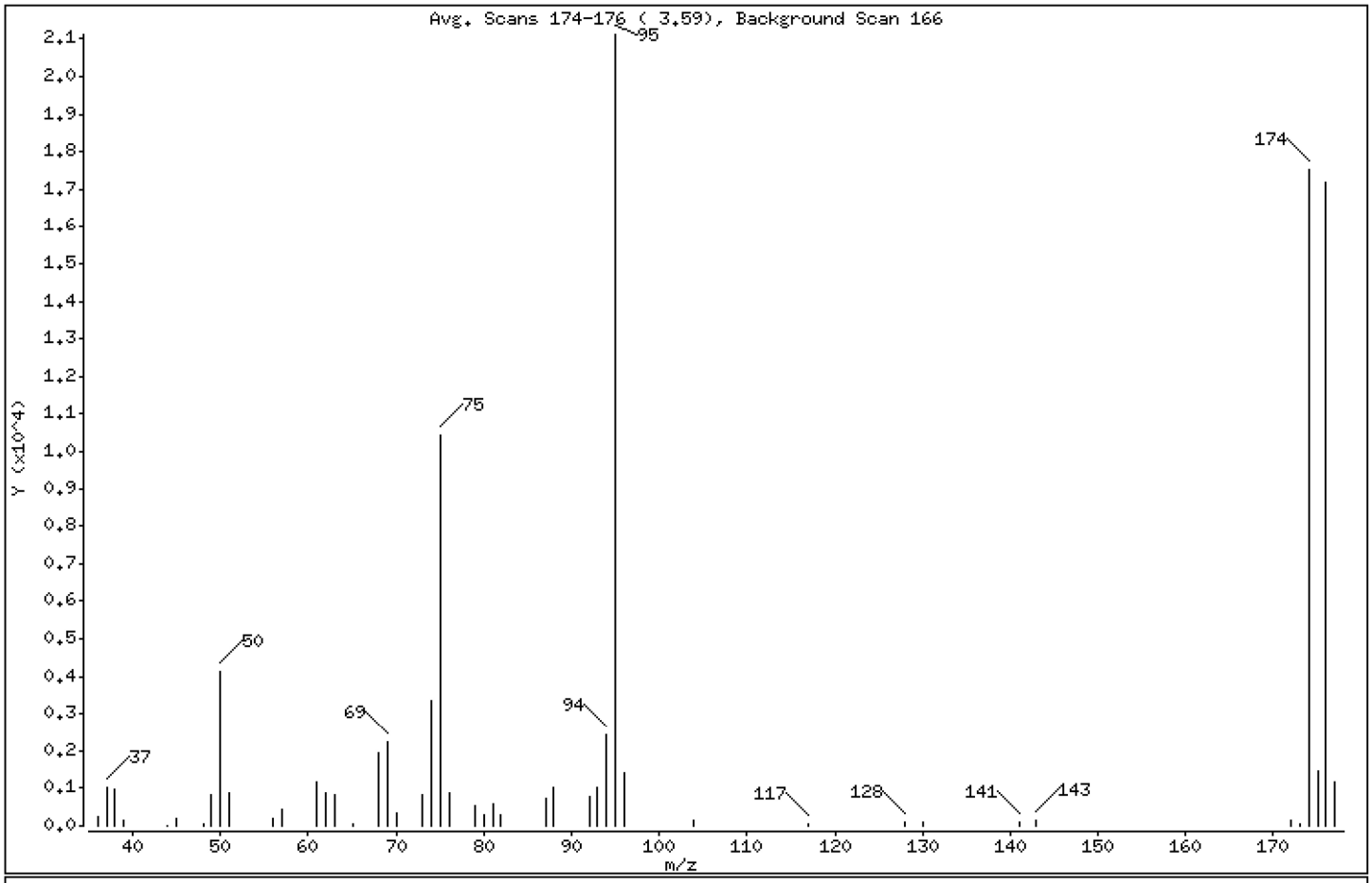
Sample Info: WG145261-3,WE53-7

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.55
75	30.00 - 60.00% of mass 95	49.46
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.33 (0.39)
174	Greater than 50.00% of mass 95	83.03
175	5.00 - 9.00% of mass 174	6.80 (8.19)
176	95.00 - 101.00% of mass 174	81.29 (97.90)
177	5.00 - 9.00% of mass 176	5.51 (6.77)

Date : 23-JUN-2014 08:04

Client ID: Instrument: gcms-c.i

Sample Info: WG145261-3,WE53-7

Operator: REC

Column phase: RTX-VMS Column diameter: 0.18

Data File: CB852.D
Spectrum: Avg. Scans 174-176 (3.59), Background Scan 166
Location of Maximum: 95.00
Number of points: 46

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	253	61.00	1171	80.00	274	128.00	89
37.00	1015	62.00	866	81.00	584	130.00	82
38.00	989	63.00	838	82.00	304	141.00	120
39.00	138	65.00	72	87.00	751	143.00	155
44.00	20	68.00	1930	88.00	1018	172.00	141
45.00	202	69.00	2222	92.00	753	173.00	69
48.00	68	70.00	345	93.00	1020	174.00	17536
49.00	835	73.00	814	94.00	2428	175.00	1436
50.00	4128	74.00	3355	95.00	21120	176.00	17168
51.00	861	75.00	10445	96.00	1422	177.00	1163
56.00	202	76.00	862	104.00	139		
57.00	445	79.00	539	117.00	70		

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\CB853.D

Date : 24-JUN-2014 07:30

Client ID:

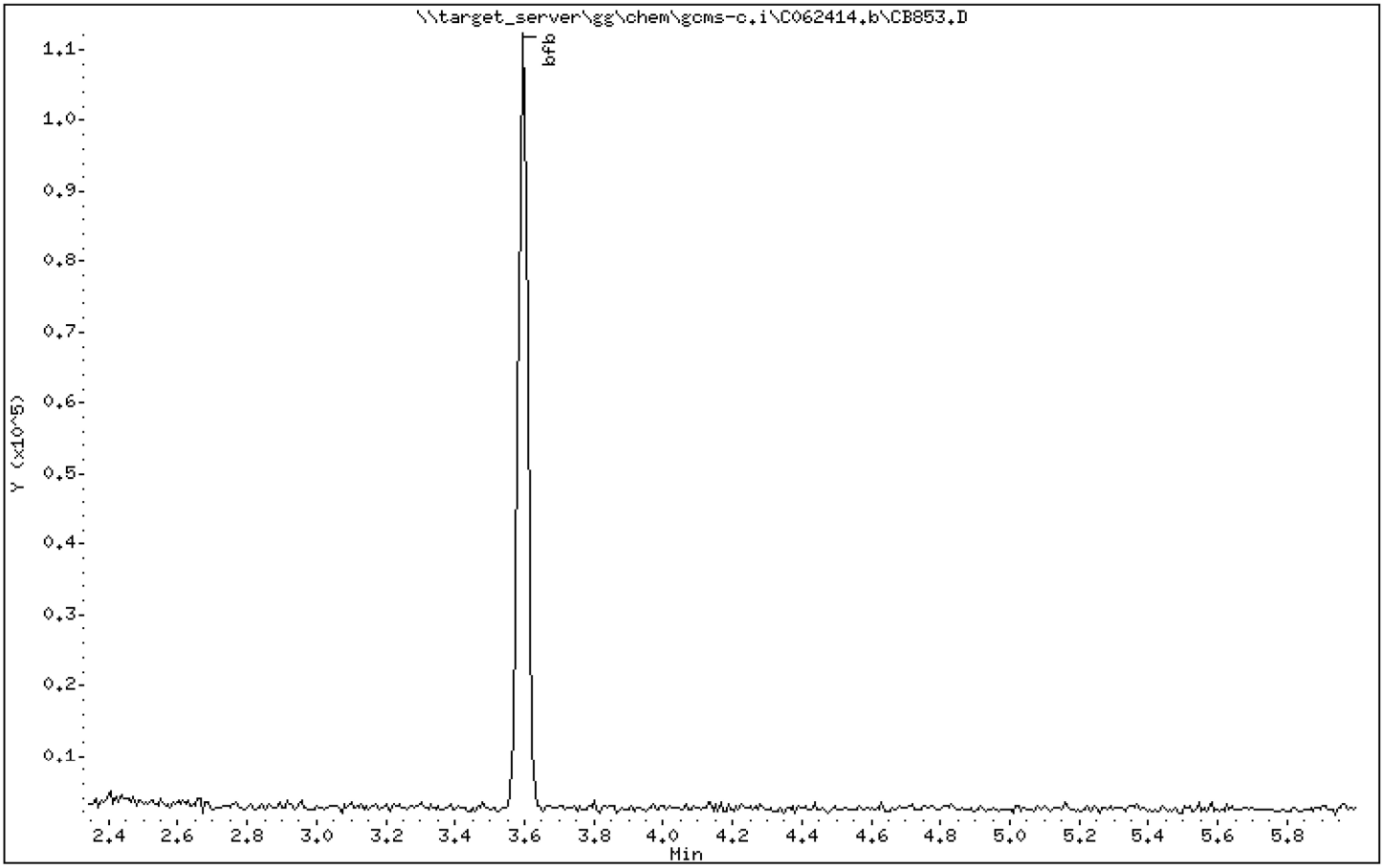
Instrument: gcms-c.i

Sample Info: WG145321-3,WE53-7

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\CB853.D

Date : 24-JUN-2014 07:30

Client ID:

Instrument: gcms-c.i

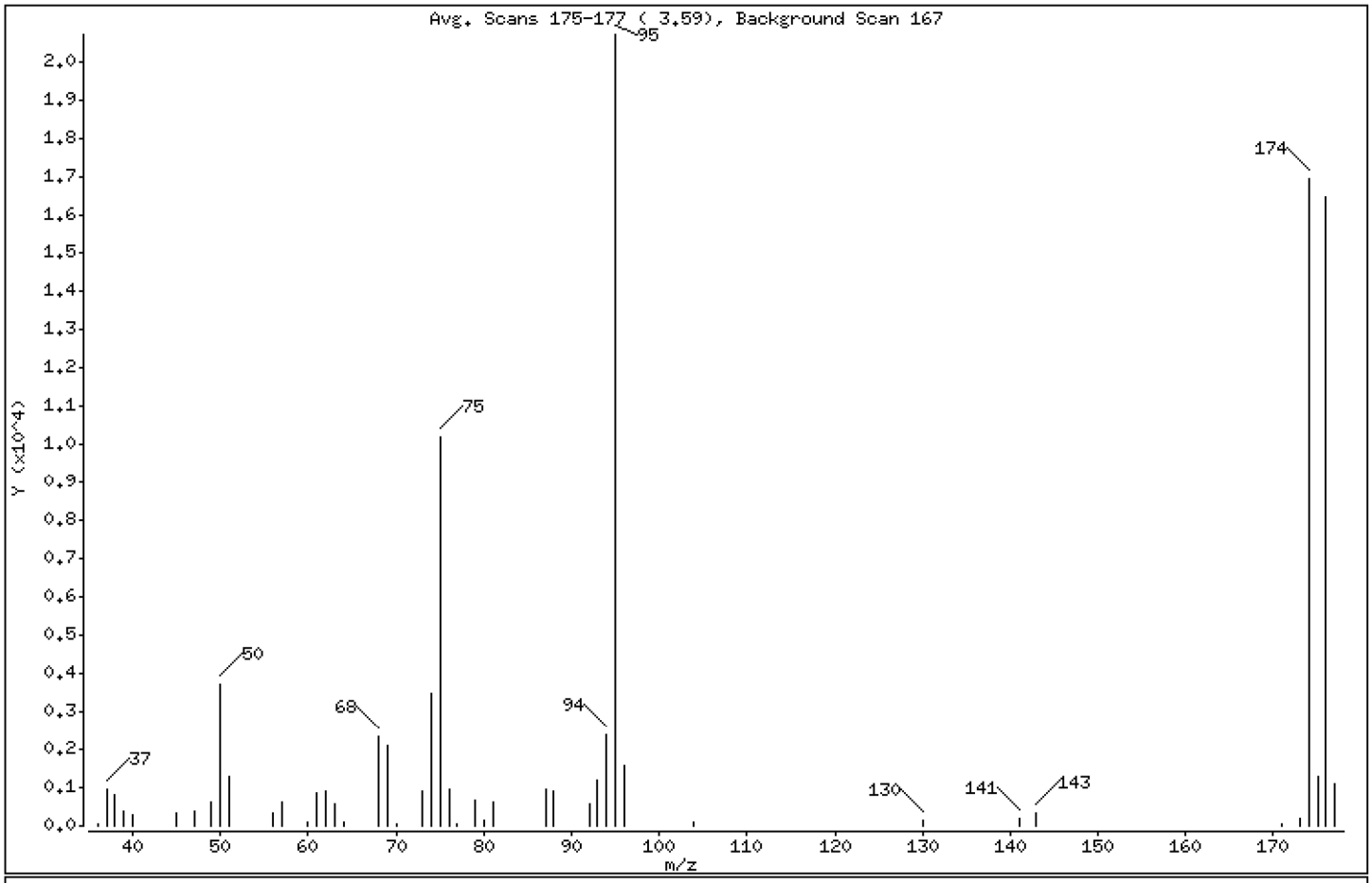
Sample Info: WG145321-3,WE53-7

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.03
75	30.00 - 60.00% of mass 95	49.17
96	5.00 - 9.00% of mass 95	7.61
173	Less than 2.00% of mass 174	0.87 (1.06)
174	Greater than 50.00% of mass 95	81.83
175	5.00 - 9.00% of mass 174	6.27 (7.67)
176	95.00 - 101.00% of mass 174	79.44 (97.08)
177	5.00 - 9.00% of mass 176	5.18 (6.53)

Date : 24-JUN-2014 07:30

Client ID:

Instrument: gcms-c.i

Sample Info: WG145321-3,WE53-7

Operator: REC

Column phase: RTX-VMS

Column diameter: 0.18

Data File: CB853.D
Spectrum: Avg. Scans 175-177 (3.59), Background Scan 167
Location of Maximum: 95.00
Number of points: 45

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	70	60.00	86	77.00	70	130.00	139
37.00	961	61.00	877	79.00	650	141.00	205
38.00	812	62.00	914	80.00	161	143.00	318
39.00	390	63.00	594	81.00	605	171.00	68
40.00	270	64.00	119	87.00	961	173.00	180
45.00	350	68.00	2317	88.00	916	174.00	16968
47.00	358	69.00	2114	92.00	574	175.00	1301
49.00	623	70.00	68	93.00	1186	176.00	16472
50.00	3739	73.00	909	94.00	2374	177.00	1075
51.00	1267	74.00	3481	95.00	20736		
56.00	346	75.00	10195	96.00	1577		
57.00	606	76.00	943	104.00	83		

Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\DB350.D

Date : 11-JUN-2014 13:38

Client ID:

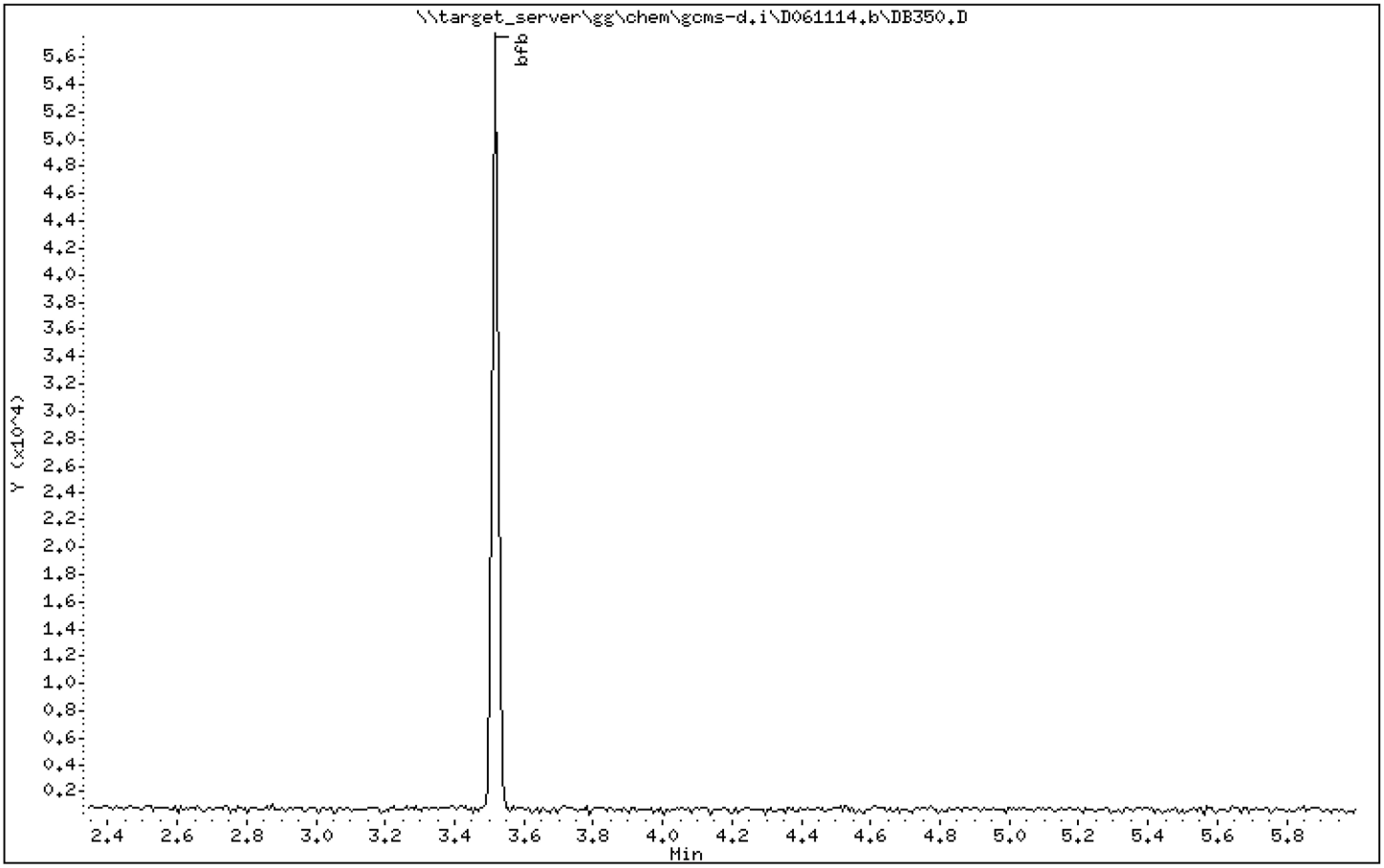
Instrument: gcms-d.i

Sample Info: WG144515-10,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-d.i\D061114.b\DB350.D

Date : 11-JUN-2014 13:38

Client ID:

Instrument: gcms-d.i

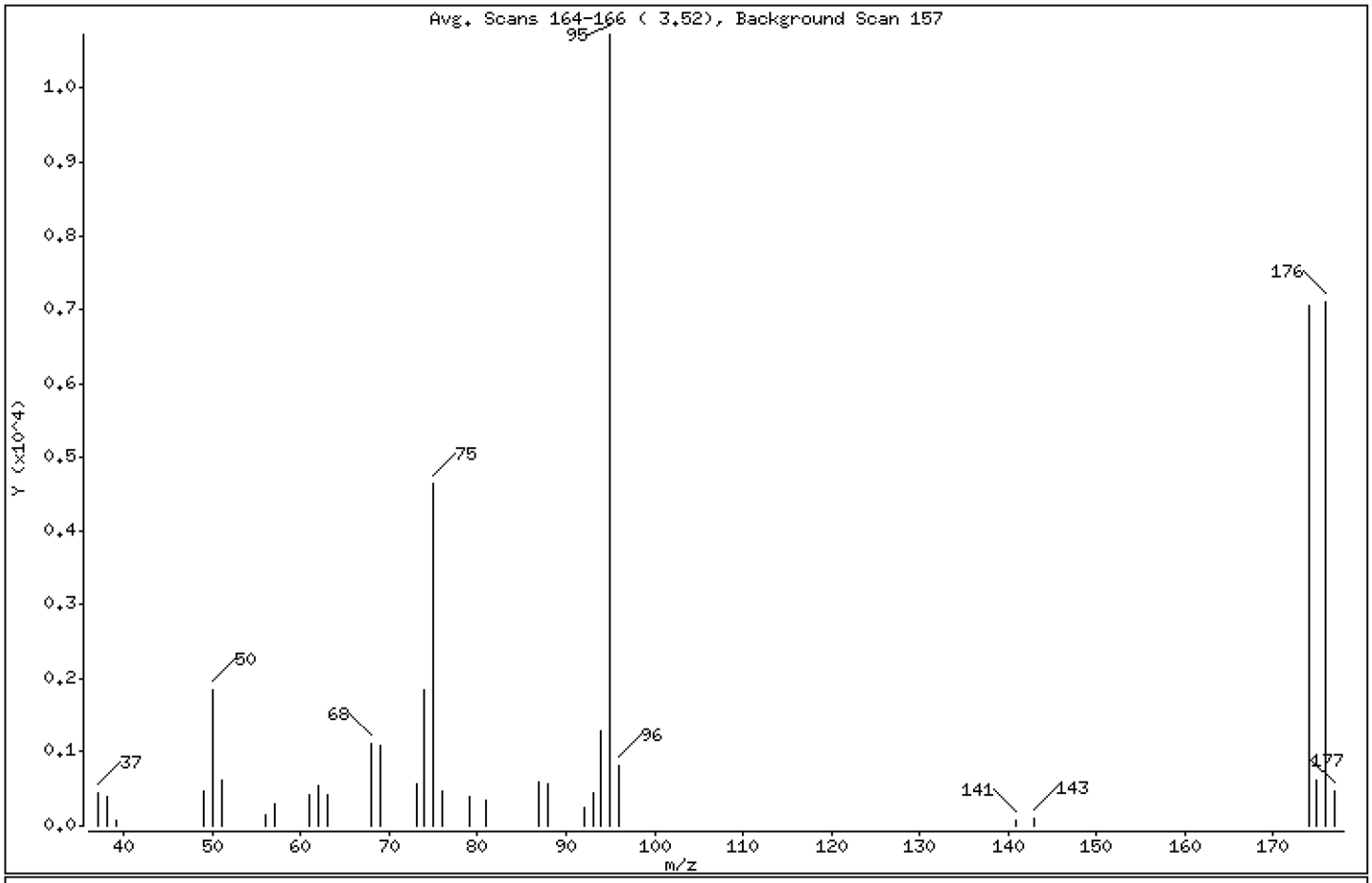
Sample Info: WG144515-10,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	17.34
75	30.00 - 60.00% of mass 95	43.15
96	5.00 - 9.00% of mass 95	7.56
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	65.83
175	5.00 - 9.00% of mass 174	5.80 (8.81)
176	95.00 - 101.00% of mass 174	66.15 (100.48)
177	5.00 - 9.00% of mass 176	4.39 (6.64)

Date : 11-JUN-2014 13:38

Client ID: Instrument: gcms-d.i

Sample Info: WG144515-10,WE53-7

Operator: DJP

Column phase: RTX-VMS Column diameter: 0.18

Data File: DB350.D
Spectrum: Avg. Scans 164-166 (3.52), Background Scan 157
Location of Maximum: 95.00
Number of points: 32

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	454	62.00	535	81.00	336	143.00	97
38.00	399	63.00	426	87.00	604	174.00	7062
39.00	75	68.00	1120	88.00	576	175.00	622
49.00	477	69.00	1089	92.00	256	176.00	7096
50.00	1860	73.00	566	93.00	437	177.00	471
51.00	622	74.00	1850	94.00	1292		
56.00	144	75.00	4629	95.00	10727		
57.00	300	76.00	468	96.00	811		
61.00	426	79.00	388	141.00	67		

Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\DB368.D

Date : 28-JUN-2014 08:08

Client ID:

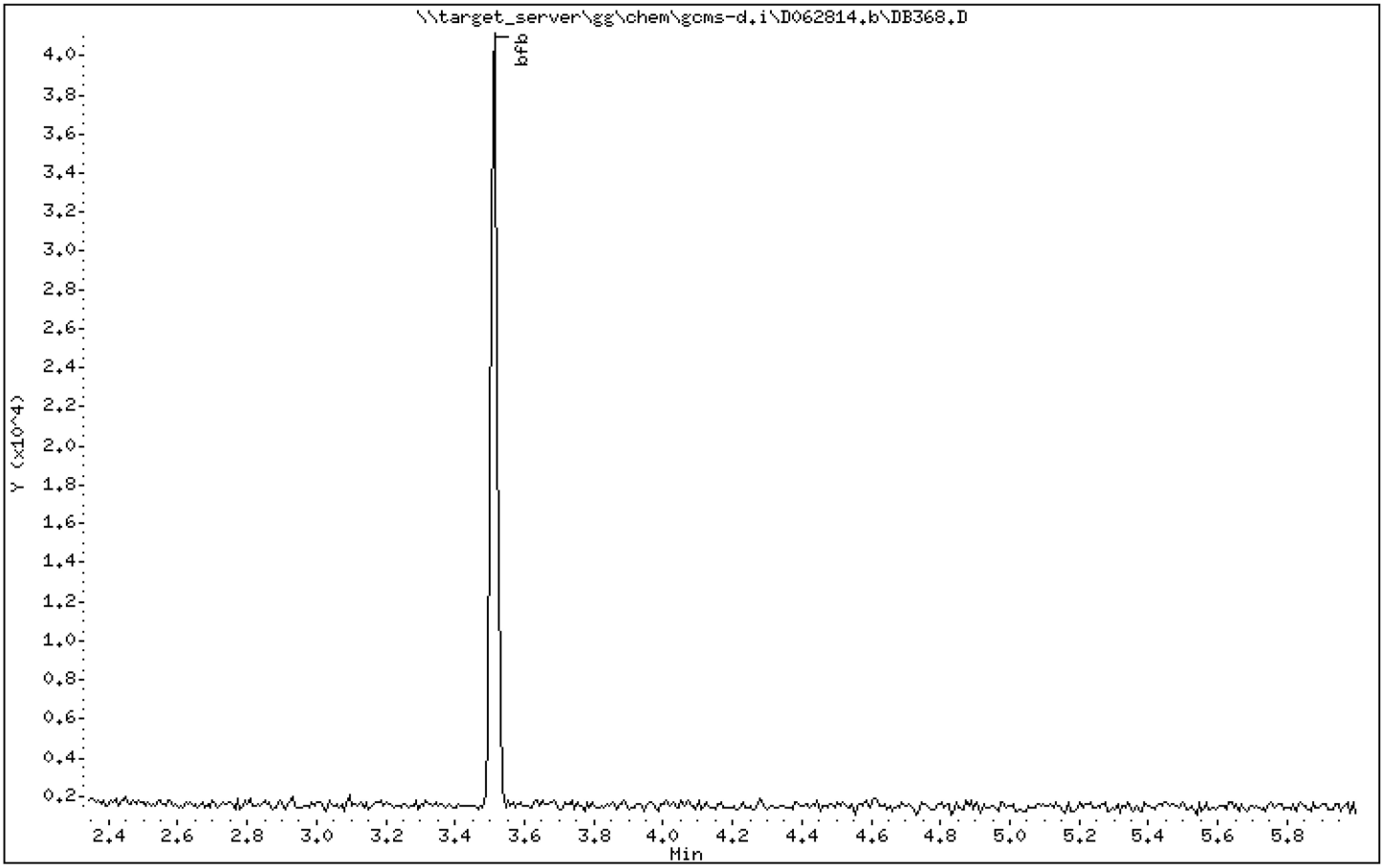
Instrument: gcms-d.i

Sample Info: WG145586-3,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\DB368.D

Date : 28-JUN-2014 08:08

Client ID:

Instrument: gcms-d.i

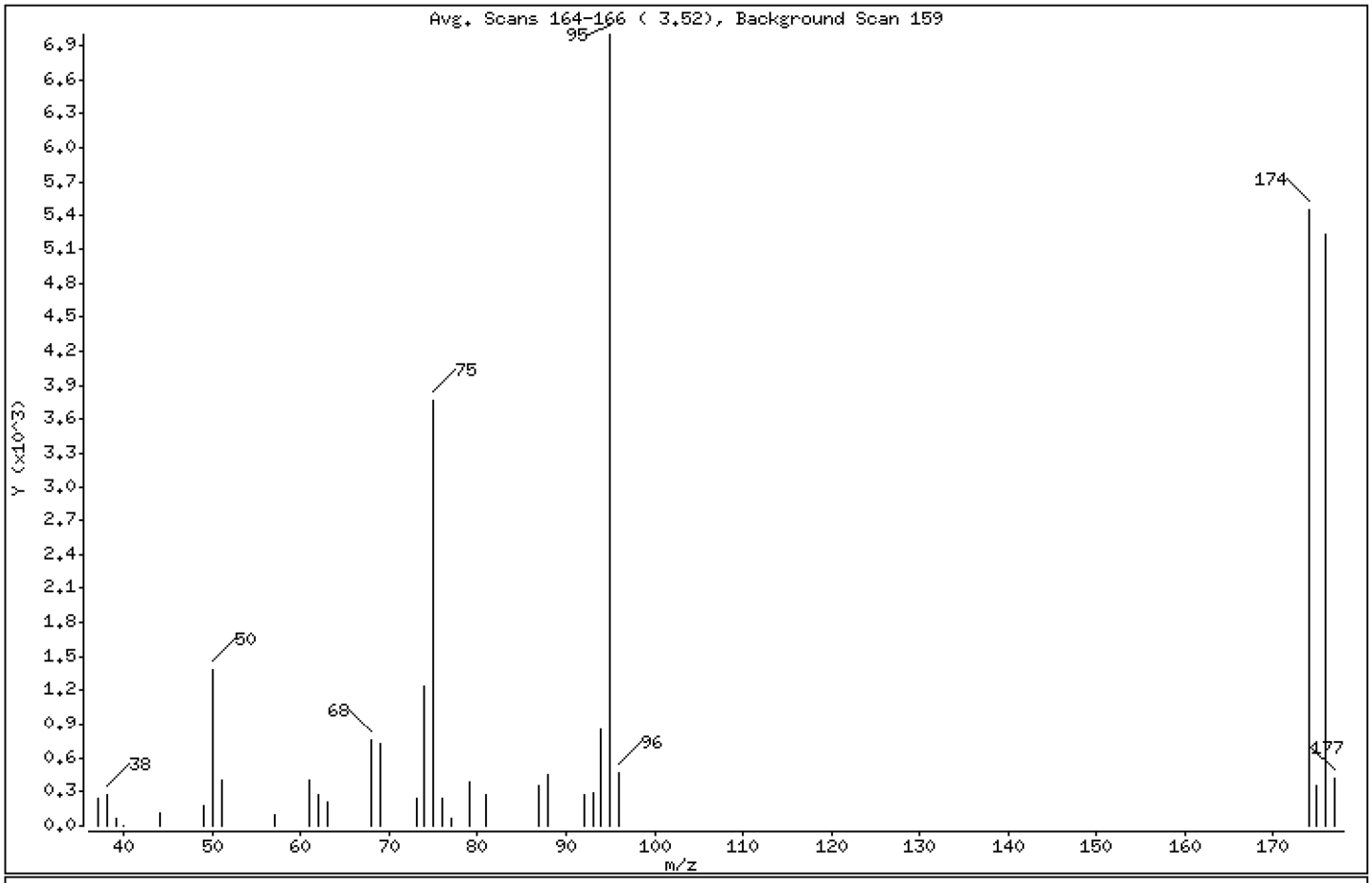
Sample Info: WG145586-3,WE53-7

Operator: DJP

Column phase: RTX-VMS

Column diameter: 0.18

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.66
75	30.00 - 60.00% of mass 95	53.85
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.00 (0.00)
174	Greater than 50.00% of mass 95	77.95
175	5.00 - 9.00% of mass 174	4.94 (6.34)
176	95.00 - 101.00% of mass 174	74.78 (95.93)
177	5.00 - 9.00% of mass 176	5.93 (7.93)

Date : 28-JUN-2014 08:08

Client ID: Instrument: gcms-d.i

Sample Info: WG145586-3,WE53-7

Operator: DJP

Column phase: RTX-VMS Column diameter: 0.18

Data File: DB368.D
Spectrum: Avg. Scans 164-166 (3.52), Background Scan 159
Location of Maximum: 95.00
Number of points: 32

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	245	61.00	399	77.00	67	96.00	467
38.00	272	62.00	281	79.00	379	174.00	5456
39.00	71	63.00	216	81.00	281	175.00	346
40.00	3	68.00	759	87.00	356	176.00	5234
44.00	118	69.00	722	88.00	446	177.00	415
49.00	176	73.00	247	92.00	281		
50.00	1376	74.00	1232	93.00	296		
51.00	406	75.00	3769	94.00	847		
57.00	98	76.00	236	95.00	6999		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG145261-2
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: C7849.D

Sample Date:
Received Date:
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		96.0	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Report of Analytical Results

Client:
Lab ID: WG145261-2
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: C7849.D

Sample Date:
Received Date:
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Toluene-d8		95.4	%					
1,2-Dichloroethane-d4		113.	%					
Dibromofluoromethane		98.0	%					

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7849.D
Report Date: 15-Jul-2014 12:06

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7849.D
Lab Smp Id: WG145261-2 Client Smp ID: WG145261-Blank
Inj Date : 23-JUN-2014 10:56 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG145261-2,WE53-7
Misc Info : WG145261,WG144357-4,SH4401-2
Comment : SW846 5030,AQ
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

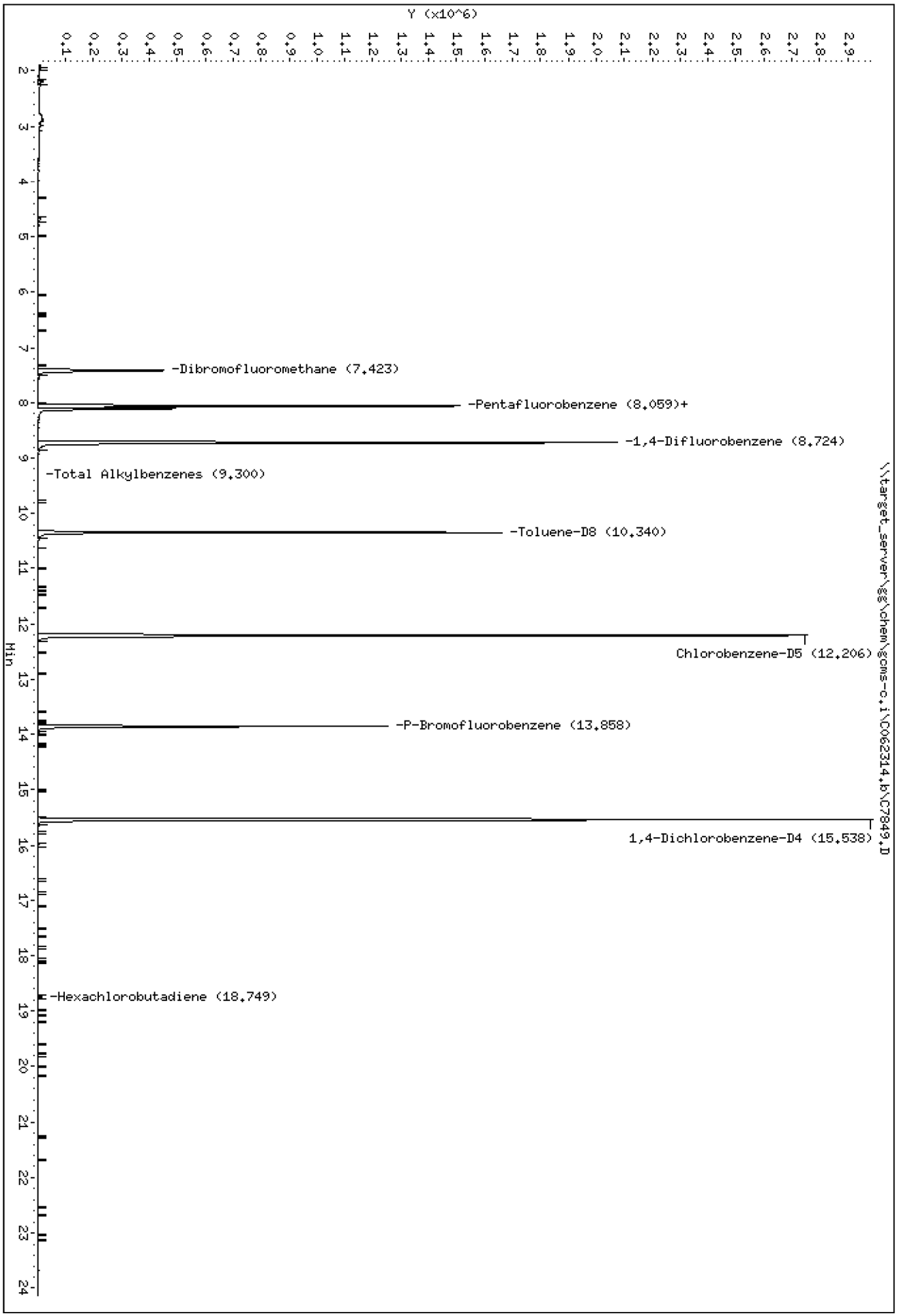
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.422	7.427	(0.920)	276817	48.9880	49.0	
* 42 Pentafluorobenzene	168	8.066	8.063	(1.000)	994425	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.109	8.113	(1.005)	324405	56.4402	56.4	
* 49 1,4-Difluorobenzene	114	8.724	8.721	(1.000)	1550314	50.0000		
$ 55 Toluene-D8	98	10.340	10.344	(1.185)	924906	47.7111	47.7	
* 66 Chlorobenzene-D5	117	12.206	12.210	(1.000)	1571676	50.0000		
$ 76 P-Bromofluorobenzene	95	13.857	13.855	(1.588)	398720	47.9802	48.0	
* 91 1,4-Dichlorobenzene-D4	152	15.538	15.542	(1.000)	866485	50.0000		
98 Hexachlorobutadiene	225	18.741	18.746	(1.206)	3130	0.73574	0.74(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).


Y (x10^6)
Min
-Dibromofluoromethane (7.423)
-Pentafluorobenzene (8.059)+
-1,4-Difluorobenzene (8.724)
-Total Alkylbenzenes (9.300)
-Toluene-D8 (10.340)
Chlorobenzene-D5 (12.206)
-P-Bromofluorobenzene (13.858)
1,4-Dichlorobenzene-D4 (15.538)
-Hexachlorobutadiene (18.749)
\\target_server\gc\chem\gcms-c.i\C062314.b\C7849.D
Data File: \\target_server\gc\chem\gcms-c.i\C062314.b\C7849.D
Date : 23-JUN-2014 10:56
Client ID: WG145261-Blank
Sample Info: WG145261-2,WE53-7
Instrument: gcms-c.i

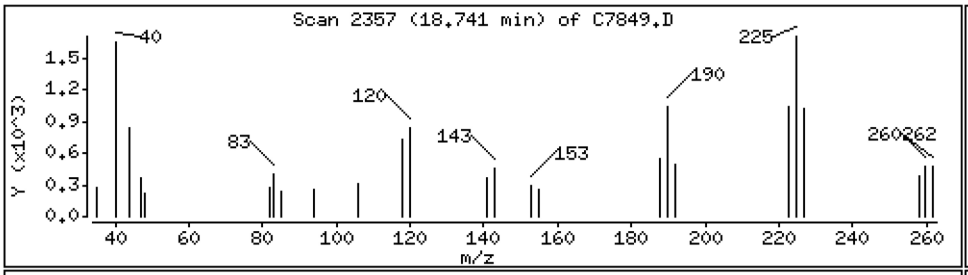
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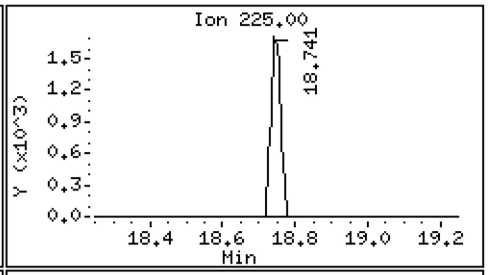
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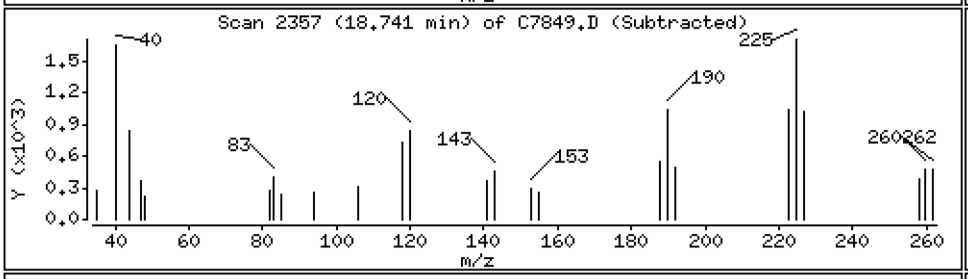
Client ID: WG145261-Blank Instrument: gcms-c.i

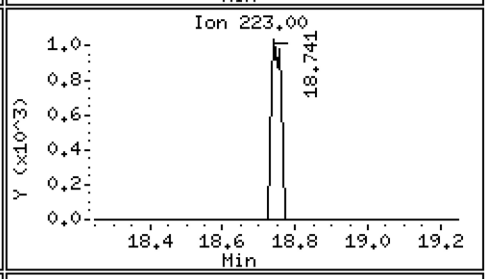
Sample Info: WG145261-2,WE53-7

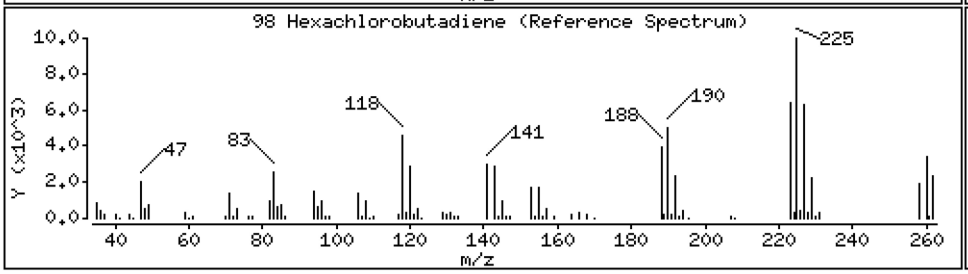
98 Hexachlorobutadiene Concentration: 0.74 ug/l

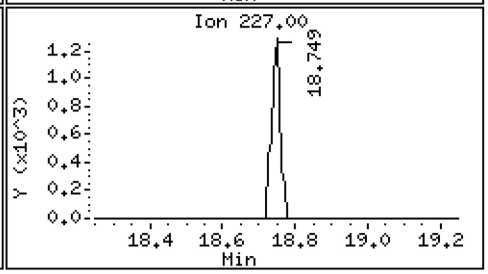












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG145321-2
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: C7873.D

Sample Date:
Received Date:
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		96.0	%					

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Report of Analytical Results

Client:
Lab ID: WG145321-2
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: C7873.D

Sample Date:
Received Date:
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Toluene-d8		99.0	%					
1,2-Dichloroethane-d4		117.	%					
Dibromofluoromethane		104.	%					

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7873.D
Report Date: 15-Jul-2014 12:19

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7873.D
Lab Smp Id: WG145321-2 Client Smp ID: WG145321-Blank
Inj Date : 24-JUN-2014 10:26 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG145321-2,WE53-7
Misc Info : WG145321,WG144357-4,SH4521-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

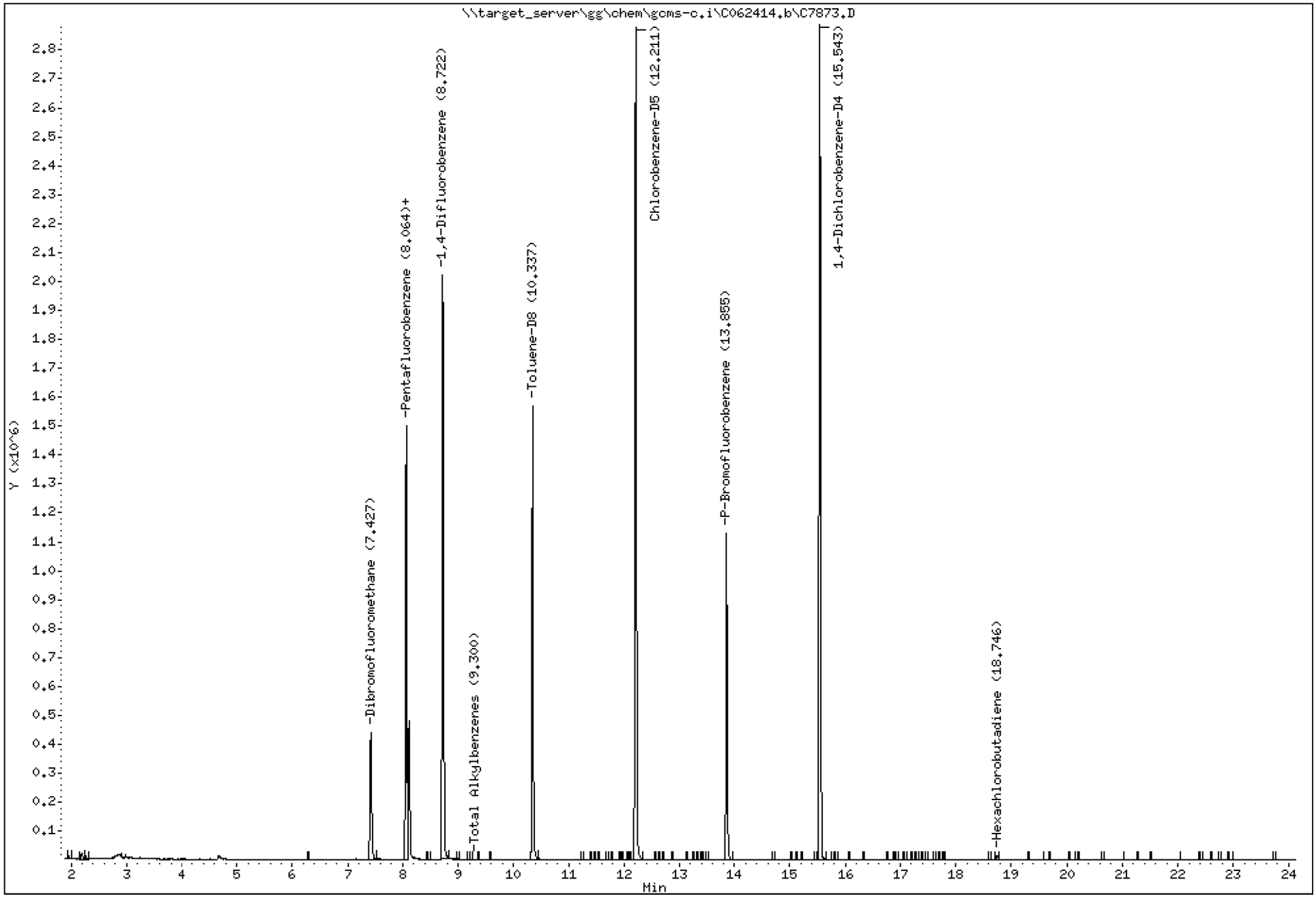
Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.427	7.427	(0.921)	269857	51.8908	51.9	
* 42 Pentafluorobenzene	168	8.063	8.063	(1.000)	915193	50.0000		
$ 45 1,2-Dichloroethane-D4	65	8.113	8.113	(1.006)	310762	58.7473	58.7	
* 49 1,4-Difluorobenzene	114	8.721	8.721	(1.000)	1488746	50.0000		
$ 55 Toluene-D8	98	10.337	10.344	(1.185)	921693	49.5116	49.5	
* 66 Chlorobenzene-D5	117	12.210	12.210	(1.000)	1584149	50.0000		
$ 76 P-Bromofluorobenzene	95	13.855	13.855	(1.589)	382860	47.9770	48.0	
* 91 1,4-Dichlorobenzene-D4	152	15.542	15.542	(1.000)	863647	50.0000		
98 Hexachlorobutadiene	225	18.746	18.746	(1.206)	3277	0.77283	0.77(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7873.D
Date : 24-JUN-2014 10:26
Client ID: WG145321-Blank
Instrument: gcms-c.i
Sample Info: WG145321-2,WE53-7



Katahdin Analytical Services 1000294

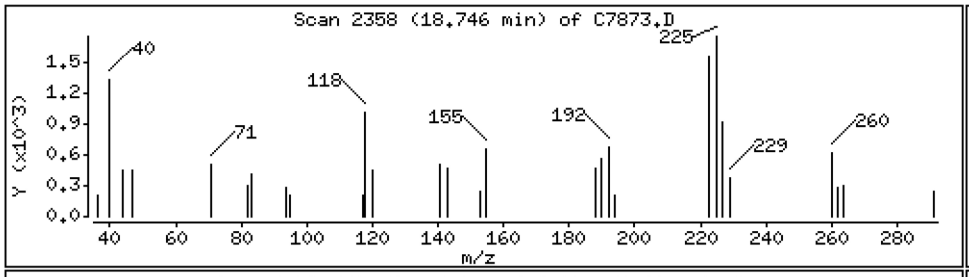
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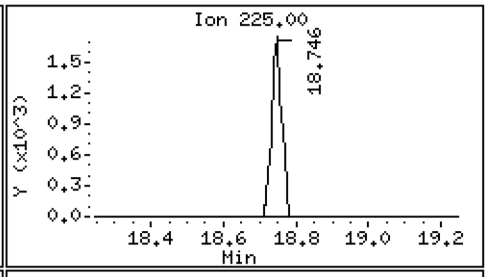
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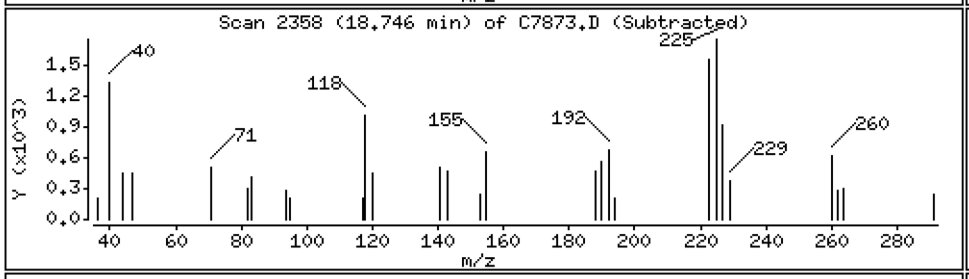
Client ID: WG145321-Blank Instrument: gcms-c.i

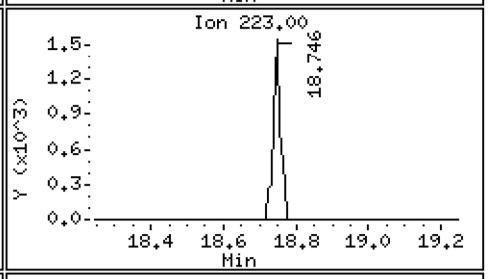
Sample Info: WG145321-2,WE53-7

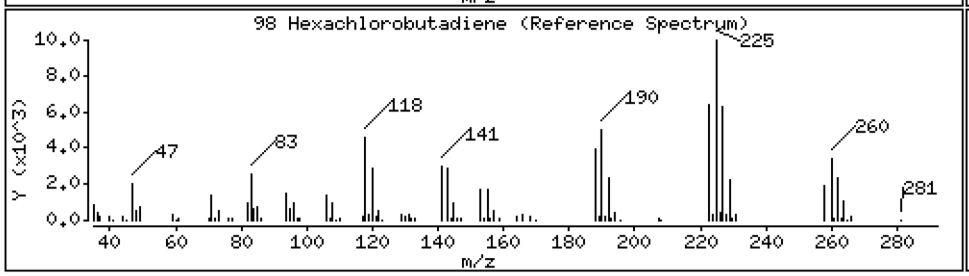
98 Hexachlorobutadiene Concentration: 0.77 ug/l

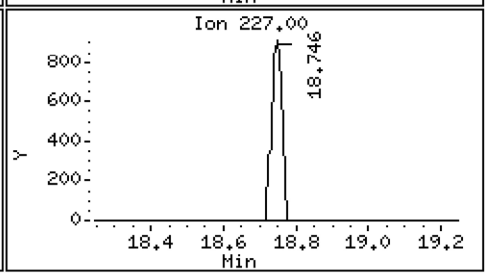












Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG145586-2
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: D9209.D

Sample Date:
Received Date:
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Methylene Chloride	U	2.5	ug/L	1	5	5.0	1.1	2.5
Acetone	U	2.5	ug/L	1	5	5.0	2.2	2.5
trans-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Methyl tert-butyl Ether	U	0.50	ug/L	1	1	1.0	0.36	0.50
1,1-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.21	0.50
cis-1,2-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Chloroform	U	0.50	ug/L	1	1	1.0	0.32	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Benzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,2-Dichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
Trichloroethene	U	0.50	ug/L	1	1	1.0	0.28	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
m+p-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Isopropylbenzene	U	0.50	ug/L	1	1	1.0	0.23	0.50
1,1,2,2-Tetrachloroethane	U	0.50	ug/L	1	1	1.0	0.38	0.50
1,3-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.26	0.50
1,4-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.24	0.50
1,2-Dichlorobenzene	U	0.50	ug/L	1	1	1.0	0.15	0.50
1,2,4-Trichlorobenzene	U	0.50	ug/L	1	1	1.0	0.37	0.50
Xylenes (Total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
2-Hexanone	U	2.5	ug/L	1	5	5.0	1.7	2.5
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
P-Bromofluorobenzene		93.6	%					

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Report of Analytical Results

Client:
Lab ID: WG145586-2
Client ID: Method Blank Sample
Project:
SDG: WE53-7
Lab File ID: D9209.D

Sample Date:
Received Date:
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Toluene-d8		108.	%					
1,2-Dichloroethane-d4		113.	%					
Dibromofluoromethane		106.	%					

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Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9209.D
Report Date: 15-Jul-2014 12:27

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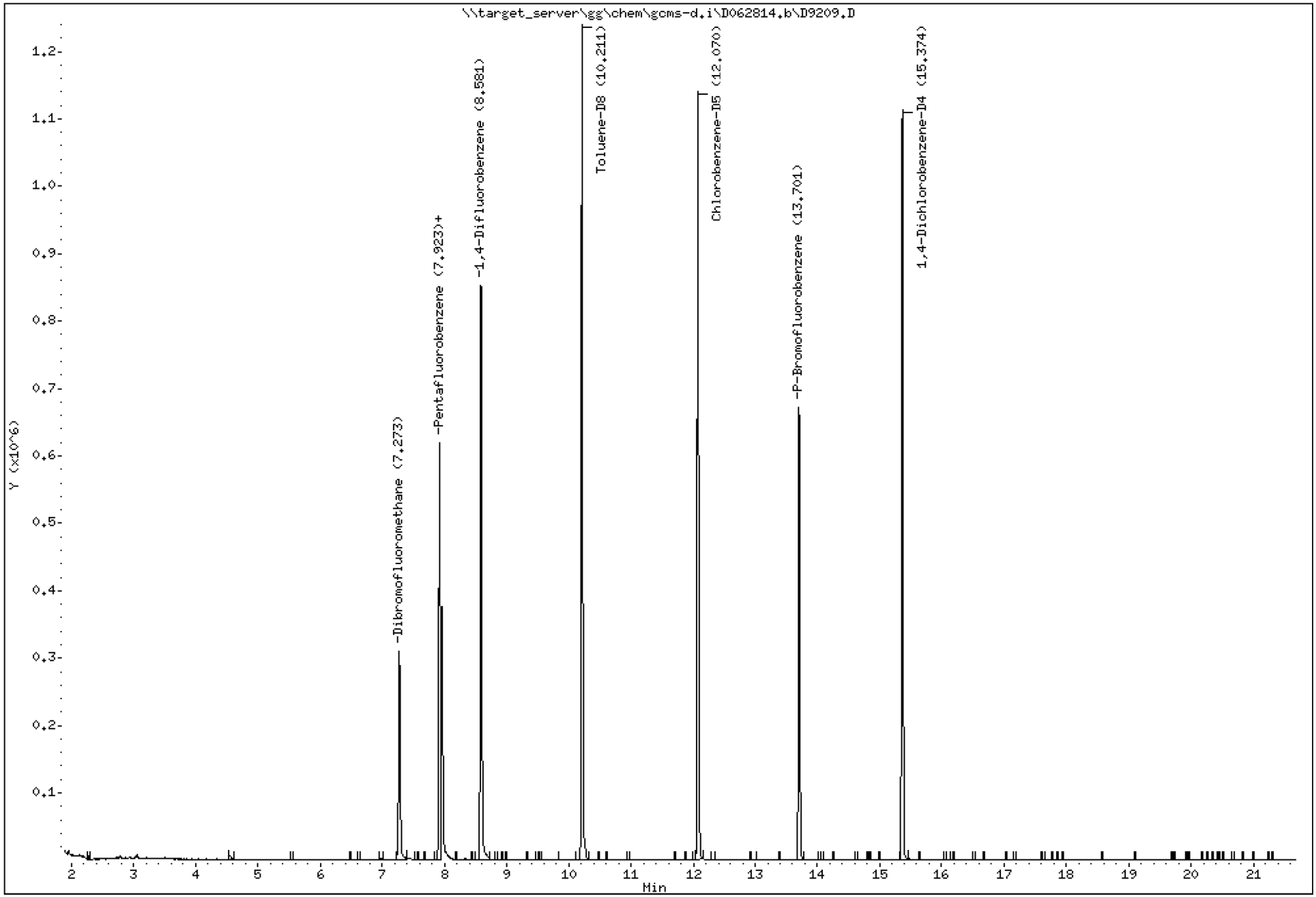
Data file : \\target_server\gg\chem\gcms-d.i\D062814.b\D9209.D
Lab Smp Id: WG145586-2 Client Smp ID: WG145586-Blank
Inj Date : 28-JUN-2014 11:05 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG145586-2,WE53-7
Misc Info : WG145586,WG144515-4,SH4521-18
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D062814.b\D826A48.m
Meth Date : 30-Jun-2014 06:27 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 15:07 Cal File: D8863.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.272	7.281	(0.918)	176996	53.2478	53.2	
* 42 Pentafluorobenzene	168	7.923	7.931	(1.000)	351492	50.0000		
$ 45 1,2-Dichloroethane-D4	65	7.959	7.967	(1.004)	222465	56.3217	56.3	
* 49 1,4-Difluorobenzene	114	8.588	8.589	(1.000)	637801	50.0000		
$ 55 Toluene-D8	98	10.211	10.219	(1.189)	695461	54.0948	54.1	
* 66 Chlorobenzene-D5	117	12.070	12.071	(1.000)	570749	50.0000		
$ 76 P-Bromofluorobenzene	95	13.700	13.708	(1.595)	224787	46.8288	46.8	
* 91 1,4-Dichlorobenzene-D4	152	15.373	15.374	(1.000)	294224	50.0000		

Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9209.D
Date : 28-JUN-2014 11:05
Client ID: WG145586-Blank
Instrument: gcms-d.i
Sample Info: WG145586-2,WE53-7



Katahdin Analytical Services 1000299

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG145261-1
Client ID: LCS
Project:
SDG: WE53-7
LCS File ID: C7846.D

Sample Date:
Received Date:
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Chloromethane	103.	50.0	51.6	ug/L	40-125
Chloroethane	80.6	50.0	40.3	ug/L	60-135
1,1-Dichloroethene	106.	50.0	53.0	ug/L	70-130
Methylene Chloride	105.	50.0	52.6	ug/L	55-140
Acetone	109.	50.0	54.5	ug/L	40-140
trans-1,2-Dichloroethene	100.	50.0	50.1	ug/L	60-140
Methyl tert-butyl Ether	114.	100.	114.	ug/L	65-125
1,1-Dichloroethane	108.	50.0	54.0	ug/L	70-135
cis-1,2-Dichloroethene	102.	50.0	50.8	ug/L	70-125
Chloroform	107.	50.0	53.4	ug/L	65-135
Carbon Tetrachloride	107.	50.0	53.7	ug/L	65-140
1,1,1-Trichloroethane	108.	50.0	54.2	ug/L	65-130
Benzene	102.	50.0	51.1	ug/L	80-120
1,2-Dichloroethane	111.	50.0	55.3	ug/L	70-130
Trichloroethene	103.	50.0	51.5	ug/L	70-125
Toluene	100.	50.0	50.0	ug/L	75-120
1,1,2-Trichloroethane	106.	50.0	53.0	ug/L	75-125
Chlorobenzene	107.	50.0	53.3	ug/L	80-120
Ethylbenzene	98.0	50.0	49.0	ug/L	75-125
m+p-Xylenes	107.	100.	107.	ug/L	75-130
o-Xylene	110.	50.0	55.1	ug/L	80-120
Styrene	107.	50.0	53.7	ug/L	65-135
Isopropylbenzene	104.	50.0	51.8	ug/L	75-125
1,1,2,2-Tetrachloroethane	109.	50.0	54.5	ug/L	65-130
1,3-Dichlorobenzene	110.	50.0	55.1	ug/L	75-125
1,4-Dichlorobenzene	99.8	50.0	49.9	ug/L	75-125
1,2-Dichlorobenzene	112.	50.0	55.9	ug/L	70-120
1,2,4-Trichlorobenzene	108.	50.0	53.9	ug/L	65-135
Xylenes (Total)	108.	150.	162.	ug/L	89-116
Methylcyclohexane	98.8	50.0	49.4	ug/L	73-125
2-Hexanone	99.6	50.0	49.8	ug/L	55-130
Vinyl Chloride	100.	50.0	50.1	ug/L	50-145
Tetrachloroethene	90.6	50.0	45.3	ug/L	45-150
P-Bromofluorobenzene	103.				75-120
Toluene-d8	94.9				85-120

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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LCS Recovery Report

Client:
Lab ID: WG145261-1
Client ID: LCS
Project:
SDG: WE53-7
LCS File ID: C7846.D

Sample Date:
Received Date:
Extract Date: 23-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145261

Analysis Date: 23-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dichloroethane-d4	102.				70-120
Dibromofluoromethane	94.4				85-115

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7846.D
Report Date: 15-Jul-2014 12:06

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062314.b\C7846.D
Lab Smp Id: WG145261-1 Client Smp ID: WG145261-LCS
Inj Date : 23-JUN-2014 09:12 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG145261-1,WE53-7
Misc Info : WG145261,WG144357-4,SH4401-2
Comment : SW846 5030,AQ
Method : \\target_server\gg\chem\gcms-c.i\C062314.b\C826A08.m
Meth Date : 15-Jul-2014 10:32 gcms-c.i Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.003	2.000	(0.249)	349177	67.7344	67.7	
2	Chloromethane	50	2.247	2.236	(0.279)	435690	51.5882	51.6	
3	Vinyl chloride	62	2.339	2.343	(0.290)	359186	50.0710	50.1	
4	Bromomethane	94	2.747	2.744	(0.341)	243342	47.1601	47.2	
5	Chloroethane	64	2.897	2.894	(0.360)	126368	40.3188	40.3	
6	Trichlorofluoromethane	101	3.069	3.080	(0.381)	601637	54.6301	54.6	
7	Diethyl Ether	59	3.512	3.509	(0.436)	253438	59.0743	59.1	
8	Tertiary-butyl alcohol	59	5.371	5.361	(0.666)	88333	266.755	267	
9	1,1-Dichloroethene	96	3.777	3.773	(0.469)	295000	53.0322	53.0	
10	Carbon Disulfide	76	3.805	3.809	(0.472)	940540	56.4804	56.5	
11	Freon-113	151	3.834	3.838	(0.476)	206031	46.4297	46.4	
12	Iodomethane	142	3.977	3.981	(0.493)	381306	51.3522	51.4	
13	Acrolein	56	4.291	4.288	(0.532)	262674	273.527	274	
14	Methylene Chloride	84	4.678	4.681	(0.580)	356260	52.6230	52.6	
15	Acetone	43	4.785	4.774	(0.594)	93654	54.5342	54.5	
16	Isobutyl Alcohol	43	8.274	8.271	(1.027)	199033	1165.79	1160	
17	trans-1,2-Dichloroethene	96	4.942	4.946	(0.613)	331580	50.1374	50.1	
18	Allyl Chloride	41	4.499	4.502	(0.558)	468483	50.8675	50.9	
19	Methyl tert-butyl ether	73	5.157	5.153	(0.640)	1418208	114.060	114	
20	Acetonitrile	39	5.564	5.568	(0.690)	101141	587.219	587	
21	Di-isopropyl ether	45	5.807	5.811	(0.721)	880786	51.1992	51.2	
22	Chloroprene	53	5.936	5.940	(0.737)	470104	53.1341	53.1	
23	Propionitrile	54	7.988	7.985	(0.991)	468700	631.528	632(R)	
24	Methacrylonitrile	41	8.010	8.013	(0.994)	1771887	588.968	589	

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7846.D
Report Date: 15-Jul-2014 12:06

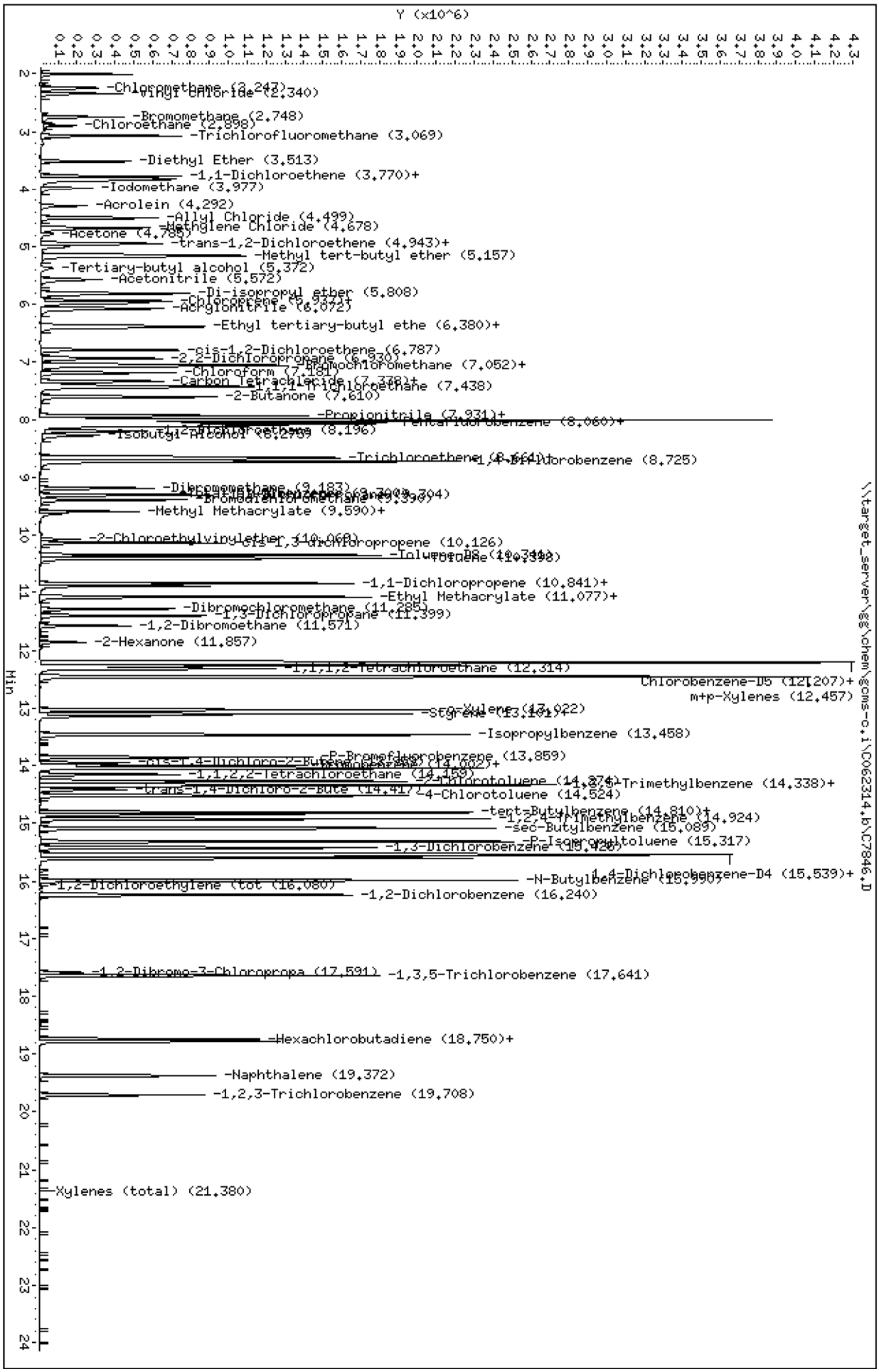
		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.972	5.975	(0.741)	592841	53.9655	54.0	
	26	Acrylonitrile	52	6.072	6.068	(0.753)	491177	291.498	291	
	27	Ethyl tertiary-butyl ether	59	6.372	6.376	(0.791)	759028	52.6182	52.6	
	28	Vinyl Acetate	43	6.394	6.397	(0.733)	681256	53.6136	53.6	
	29	cis-1,2-Dichloroethene	96	6.787	6.783	(0.842)	358333	50.8177	50.8	
M	30	1,2-Dichloroethylene (total)	96				689913	100.955	101	
	31	Methyl Methacrylate	41	9.590	9.586	(1.099)	237721	48.8434	48.8	
	32	2,2-Dichloropropane	77	6.930	6.934	(0.860)	459254	53.7750	53.8	
	33	Bromochloromethane	128	7.059	7.062	(0.876)	179920	50.2091	50.2	
	34	Chloroform	83	7.180	7.177	(0.891)	602579	53.4288	53.4	
	35	Carbon Tetrachloride	117	7.337	7.341	(0.841)	472373	53.7046	53.7	
	36	Tetrahydrofuran	42	7.387	7.384	(0.917)	70556	53.2568	53.2	
$	37	Dibromofluoromethane	113	7.423	7.427	(0.921)	325299	47.2290	47.2	
	38	1,1,1-Trichloroethane	97	7.438	7.441	(0.923)	544938	54.1547	54.2	
	39	1,1-Dichloropropene	75	10.884	10.888	(1.247)	449331	56.1902	56.2	
	40	2-Butanone	43	7.609	7.606	(0.944)	126547	59.7988	59.8	
	41	Benzene	78	7.931	7.935	(0.909)	1232854	51.0797	51.1	
*	42	Pentafluorobenzene	168	8.060	8.063	(1.000)	1212114	50.0000		
	43	Cyclohexane	56	7.044	7.048	(0.874)	467853	49.7985	49.8	
	44	Ethyl Methacrylate	69	11.077	11.081	(1.270)	364713	49.1896	49.2	
$	45	1,2-Dichloroethane-D4	65	8.110	8.113	(1.006)	357177	50.9815	51.0	
	46	Tertiary-amyl methyl ether	73	8.102	8.099	(1.005)	626563	50.7521	50.8	
	47	1,2-Dichloroethane	62	8.195	8.199	(0.939)	439640	55.2672	55.3	
	48	Trichloroethene	95	8.675	8.670	(0.994)	339088	51.5304	51.5	
*	49	1,4-Difluorobenzene	114	8.725	8.721	(1.000)	1769162	50.0000		
	50	Dibromomethane	93	9.182	9.186	(1.052)	209242	50.3952	50.4	
	51	1,2-Dichloropropane	63	9.304	9.307	(1.066)	301909	51.7836	51.8	
	52	Bromodichloromethane	83	9.390	9.386	(1.076)	469247	56.7730	56.8	
	53	cis-1,3-dichloropropene	75	10.126	10.130	(1.161)	496017	53.1834	53.2	
	54	1,4-Dioxane	88	9.625	9.629	(1.103)	81509	1063.06	1060	
$	55	Toluene-D8	98	10.340	10.344	(1.185)	1049348	47.4344	47.4	
	56	2-Chloroethylvinylether	63	10.069	10.065	(1.154)	77523	39.4966	39.5	
	57	Toluene	92	10.398	10.401	(1.192)	791731	49.9639	50.0	
	58	4-methyl-2-pentanone	43	10.848	10.845	(1.243)	239668	54.5904	54.6	
	59	Tetrachloroethene	164	10.841	10.845	(0.888)	319889	45.3058	45.3	
	60	trans-1,3-Dichloropropene	75	10.884	10.888	(1.247)	449331	56.1902	56.2	
	61	1,1,2-Trichloroethane	83	11.077	11.073	(1.270)	254432	52.9586	53.0	
	62	Dibromochloromethane	129	11.284	11.288	(0.924)	372142	52.8554	52.8	
	63	1,3-Dichloropropane	76	11.399	11.402	(0.934)	517981	53.3197	53.3	
	64	1,2-Dibromoethane	107	11.570	11.574	(1.326)	324003	52.1674	52.2	
	65	2-Hexanone	43	11.856	11.860	(0.971)	165415	49.8269	49.8	
*	66	Chlorobenzene-D5	117	12.207	12.210	(1.000)	1796750	50.0000		
	67	Chlorobenzene	112	12.228	12.232	(1.002)	971232	53.2765	53.3	
	152	1-Chlorohexane	91	12.200	12.203	(0.999)	495942	45.7828	45.8	
	68	Ethylbenzene	106	12.264	12.268	(1.005)	522199	49.0080	49.0	
	69	1,1,1,2-Tetrachloroethane	131	12.314	12.318	(1.009)	374554	51.5520	51.6	
M	70	Xylenes (total)	106				1908355	162.090	162	
	71	m+p-Xylenes	106	12.457	12.453	(1.021)	1288055	106.951	107	
	72	o-Xylene	106	13.022	13.025	(1.067)	620300	55.1388	55.1	
	73	Styrene	104	13.100	13.097	(1.073)	1034799	53.6770	53.7	
	74	Bromoform	173	13.136	13.140	(1.076)	267244	53.7471	53.7	
	75	Isopropylbenzene	105	13.458	13.462	(0.866)	1640413	51.8069	51.8	
$	76	P-Bromofluorobenzene	95	13.858	13.855	(1.588)	488293	51.4904	51.5	
	77	cis-1,4-Dichloro-2-Butene	53	13.958	13.962	(0.898)	105627	47.1385	47.1	

Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7846.D
Report Date: 15-Jul-2014 12:06

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.416	14.420	(0.928)	104414	49.9583	50.0	
	79 Bromobenzene	156	14.009	14.005	(0.902)	477079	50.4400	50.4	
	80 N-Propylbenzene	91	14.044	14.048	(0.904)	1990096	55.0261	55.0	
	81 1,1,2,2-Tetrachloroethane	83	14.152	14.155	(0.911)	416335	54.4979	54.5	
	82 1,3,5-Trimethylbenzene	105	14.337	14.341	(0.923)	1397189	47.6240	47.6	
	83 2-Chlorotoluene	91	14.273	14.277	(0.919)	1167680	56.6367	56.6	
	84 1,2,3-Trichloropropane	75	14.352	14.355	(0.924)	328060	55.5541	55.6	
	85 4-Chlorotoluene	91	14.523	14.520	(0.935)	1235660	59.9205	59.9	
	86 tert-Butylbenzene	119	14.809	14.813	(0.953)	1503196	56.5678	56.6	
	87 Pentachloroethane	117	14.845	14.849	(0.955)	324287	51.4980	51.5	
	88 1,2,4-Trimethylbenzene	105	14.924	14.927	(0.960)	1423097	49.9602	50.0	
	89 P-Isopropyltoluene	119	15.317	15.313	(0.986)	1633899	53.1646	53.2	
	90 1,3-Dichlorobenzene	146	15.424	15.421	(0.993)	893039	55.0795	55.1	
*	91 1,4-Dichlorobenzene-D4	152	15.539	15.542	(1.000)	1079151	50.0000		
	92 1,4-Dichlorobenzene	146	15.560	15.564	(1.001)	910306	49.9360	49.9	
	93 N-Butylbenzene	91	15.989	15.993	(1.029)	1524693	52.5121	52.5	
	94 sec-Butylbenzene	105	15.088	15.092	(0.971)	1897189	53.8640	53.9	
	95 1,2-Dichlorobenzene	146	16.239	16.242	(1.045)	811864	55.9299	55.9	
	96 1,2-Dibromo-3-Chloropropane	75	17.591	17.594	(1.132)	61763	55.6942	55.7	
	97 1,3,5-Trichlorobenzene	180	17.641	17.644	(1.135)	687744	51.9431	51.9	
	98 Hexachlorobutadiene	225	18.749	18.746	(1.207)	271985	51.3340	51.3	
	99 1,2,4-Trichlorobenzene	180	18.785	18.788	(1.209)	480108	53.8966	53.9	
	100 1,2,3-Trimethylbenzene	105	15.603	15.607	(1.004)	1406164	52.2505	52.2	
	101 Naphthalene	128	19.371	19.375	(1.247)	818499	57.1499	57.1	
	102 1,2,3-Trichlorobenzene	180	19.707	19.711	(1.268)	328198	68.6356	68.6	
	103 Methyl Acetate	43	4.999	4.996	(0.620)	224448	57.9878	58.0	
	104 Methylcyclohexane	83	8.653	8.650	(1.074)	539824	49.4068	49.4	
M	153 Total Alkylbenzenes	100				11369359	368.719	369	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Data File: \\target_server\gg\chem\gcms-c.i\C062314.b\C7846.D
Date : 23-JUN-2014 09:12
Client ID: WG145261-LCS
Sample Info: WG145261-1,WE53-7
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
Y (x10^6)
Min
\\target_server\gg\chem\gcms-c.i\C062314.b\C7846.D
-Chloromethane (2.247)
-Vinyl Chloride (2.340)
-Bromomethane (2.748)
-Chloroethane (2.898)
-Trichlorofluoromethane (3.069)
-Diethyl Ether (3.513)
-1,1-Dichloroethene (3.770)+
-Iodomethane (3.977)
-Acrolein (4.292)
-Allyl Chloride (4.499)
-Methylene Chloride (4.678)
-Acetone (4.785)
-trans-1,2-Dichloroethene (4.943)+
-Methyl tert-butyl ether (5.157)
-Tertiary-butyl alcohol (5.372)
-Acetonitrile (5.572)
-Di-isopropyl ether (5.808)
-Chloroprene (6.072)+
-Acrylonitrile (6.072)
-Ethyl tertiary-butyl ethe (6.380)+
-cis-1,2-Dichloroethene (6.787)
-2,2-Dichloropropane (6.930)
-Bromochloromethane (7.052)+
-Chloroform (7.181)
-Carbon Tetrachloride (7.338)+
-1,1,1-Trichloroethane (7.438)
-2-Butanone (7.610)
-Propionitrile (7.931)+
-Tetrahydrofuran (8.060)+
-Isobutyl Alcohol (8.279)
-1,2-Dichloroethane (8.196)
-Trichloroethene (8.661)
-1,4-Difluorobenzene (8.725)
-Dibromomethane (9.183)
-Bromodichloromethane (9.390)
-Methyl Methacrylate (9.590)+
-2-Chloroethylvinylether (10.068)
-cis-1,3-Dichloropropene (10.126)
-Toluene-D8 (10.344)
-Toluene (10.398)
-1,1-Dichloropropene (10.841)+
-Ethyl Methacrylate (11.077)+
-Dibromochloromethane (11.285)
-1,3-Dichloropropane (11.399)
-1,2-Dibromoethane (11.571)
-2-Hexanone (11.857)
-1,1,1,2-Tetrachloroethane (12.314)
Chlorobenzene-D5 (12.207)+
m+p-Xylenes (12.457)
-o-Xylene (12.922)
-Styrene (13.101)+
-Isopropylbenzene (13.458)
-P-Bromofluorobenzene (13.859)
-cis-1,4-Dichloro-2-Butene (14.002)+
-Bromobenzene (14.002)+
-1,1,2,2-Tetrachloroethane (14.159)
-2-Chlorotoluene (14.374)
-1,3,5-Trimethylbenzene (14.338)+
-trans-1,4-Dichloro-2-Bute (14.417)+
-4-Chlorotoluene (14.524)
-tert-Butylbenzene (14.810)+
-1,2,4-Trimethylbenzene (14.924)
-sec-Butylbenzene (15.089)
-P-Isopropyltoluene (15.317)
-1,3-Dichlorobenzene (15.420)
1,4-Dichlorobenzene-D4 (15.539)+
-N-Butylbenzene (15.990)
-1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.240)
-1,2-Dibromo-3-Chloropropa (17.591)
-1,3,5-Trichlorobenzene (17.641)
-Hexachlorobutadiene (18.750)+
-Naphthalene (19.372)
-1,2,3-Trichlorobenzene (19.708)
-Xylenes (total) (21.380)

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG145321-1
Client ID: LCS
Project:
SDG: WE53-7
LCS File ID: C7870.D

Sample Date:
Received Date:
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Chloromethane	99.8	50.0	49.9	ug/L	40-125
Chloroethane	81.2	50.0	40.6	ug/L	60-135
1,1-Dichloroethene	105.	50.0	52.4	ug/L	70-130
Methylene Chloride	104.	50.0	51.8	ug/L	55-140
Acetone	117.	50.0	58.5	ug/L	40-140
trans-1,2-Dichloroethene	98.0	50.0	49.0	ug/L	60-140
Methyl tert-butyl Ether	105.	100.	105.	ug/L	65-125
1,1-Dichloroethane	106.	50.0	53.1	ug/L	70-135
cis-1,2-Dichloroethene	98.2	50.0	49.1	ug/L	70-125
Chloroform	105.	50.0	52.6	ug/L	65-135
Carbon Tetrachloride	107.	50.0	53.6	ug/L	65-140
1,1,1-Trichloroethane	106.	50.0	53.1	ug/L	65-130
Benzene	97.8	50.0	48.9	ug/L	80-120
1,2-Dichloroethane	109.	50.0	54.4	ug/L	70-130
Trichloroethene	102.	50.0	50.8	ug/L	70-125
Toluene	99.4	50.0	49.7	ug/L	75-120
1,1,2-Trichloroethane	99.6	50.0	49.8	ug/L	75-125
Chlorobenzene	104.	50.0	51.8	ug/L	80-120
Ethylbenzene	95.2	50.0	47.6	ug/L	75-125
m+p-Xylenes	106.	100.	106.	ug/L	75-130
o-Xylene	110.	50.0	55.0	ug/L	80-120
Styrene	106.	50.0	53.1	ug/L	65-135
Isopropylbenzene	105.	50.0	52.7	ug/L	75-125
1,1,2,2-Tetrachloroethane	104.	50.0	52.1	ug/L	65-130
1,3-Dichlorobenzene	106.	50.0	53.2	ug/L	75-125
1,4-Dichlorobenzene	98.0	50.0	49.0	ug/L	75-125
1,2-Dichlorobenzene	108.	50.0	53.8	ug/L	70-120
1,2,4-Trichlorobenzene	96.8	50.0	48.4	ug/L	65-135
Xylenes (Total)	107.	150.	160.	ug/L	89-116
Methylcyclohexane	99.8	50.0	49.9	ug/L	73-125
2-Hexanone	88.4	50.0	44.2	ug/L	55-130
Vinyl Chloride	102.	50.0	51.0	ug/L	50-145
Tetrachloroethene	85.8	50.0	42.9	ug/L	45-150
P-Bromofluorobenzene	99.0				75-120
Toluene-d8	94.8				85-120

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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LCS Recovery Report

Client:
Lab ID: WG145321-1
Client ID: LCS
Project:
SDG: WE53-7
LCS File ID: C7870.D

Sample Date:
Received Date:
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dichloroethane-d4	98.9				70-120
Dibromofluoromethane	95.0				85-115

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Tel:(207) 874-2400 Fax:(207) 775-4029

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7870.D
Report Date: 15-Jul-2014 12:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7870.D
Lab Smp Id: WG145321-1 Client Smp ID: WG145321-LCS
Inj Date : 24-JUN-2014 08:39 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG145321-1,WE53-7
Misc Info : WG145321,WG144357-4,SH4521-1
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

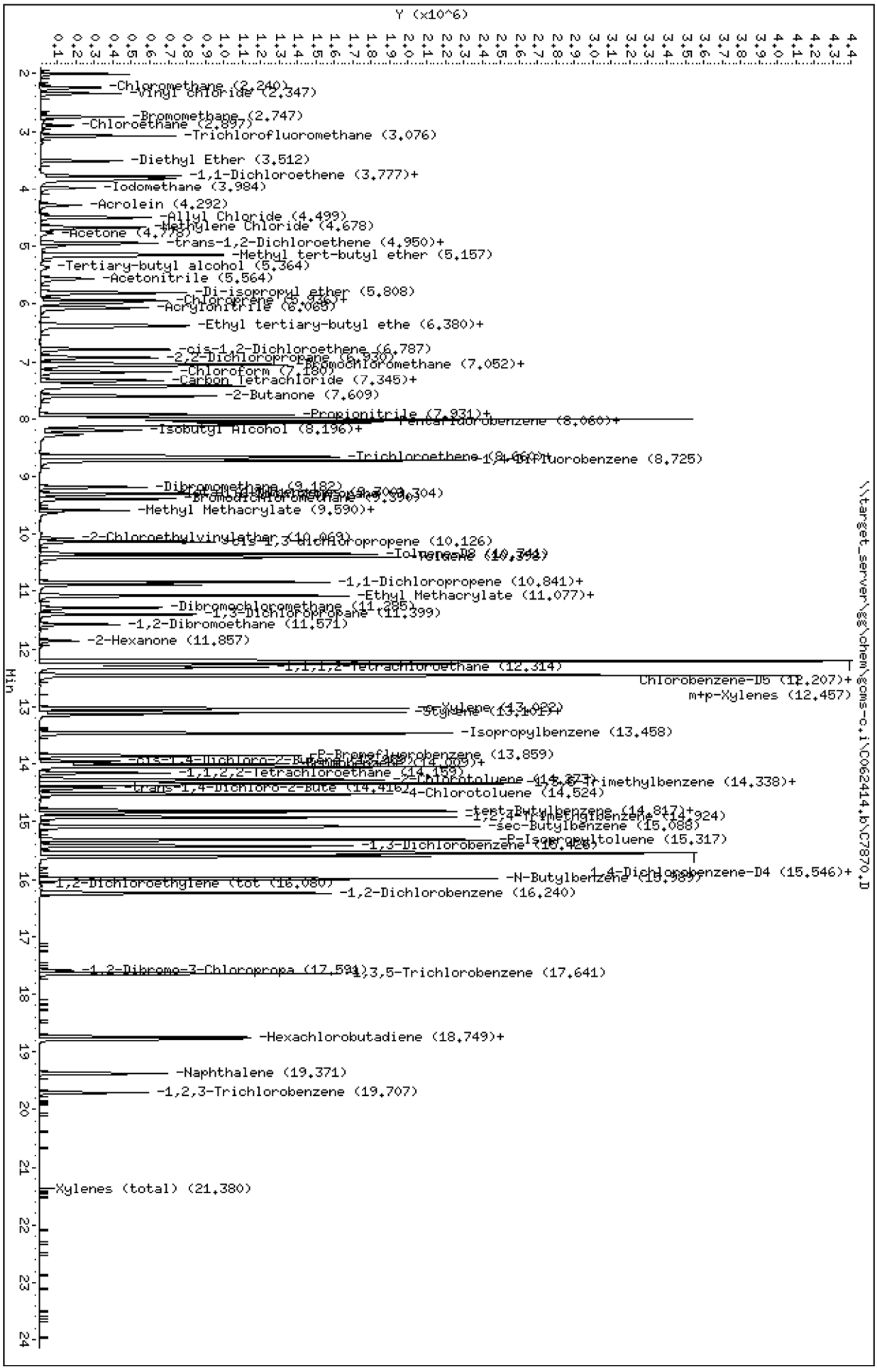
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.003	2.000	(0.249)	346663	66.9363	66.9	
2	Chloromethane	50	2.239	2.236	(0.278)	423158	49.8731	49.9	
3	Vinyl chloride	62	2.346	2.343	(0.291)	367607	51.0083	51.0	
4	Bromomethane	94	2.747	2.744	(0.341)	244212	47.1102	47.1	
5	Chloroethane	64	2.897	2.894	(0.359)	127789	40.5840	40.6	
6	Trichlorofluoromethane	101	3.076	3.080	(0.382)	582181	52.6195	52.6	
7	Diethyl Ether	59	3.512	3.509	(0.436)	243599	56.5188	56.5	
8	Tertiary-butyl alcohol	59	5.364	5.361	(0.666)	71786	219.971	220	
9	1,1-Dichloroethene	96	3.776	3.773	(0.469)	292799	52.3936	52.4	
10	Carbon Disulfide	76	3.812	3.809	(0.473)	905037	54.0975	54.1	
11	Freon-113	151	3.834	3.838	(0.476)	207440	46.5315	46.5	
12	Iodomethane	142	3.984	3.981	(0.494)	402487	53.9545	54.0	
13	Acrolein	56	4.291	4.288	(0.532)	230361	238.772	239	
14	Methylene Chloride	84	4.677	4.681	(0.580)	352298	51.7823	51.8	
15	Acetone	43	4.777	4.774	(0.593)	101011	58.5466	58.5	
16	Isobutyl Alcohol	43	8.274	8.271	(1.027)	156367	930.571	930	
17	trans-1,2-Dichloroethene	96	4.949	4.946	(0.614)	325234	48.9508	49.0	
18	Allyl Chloride	41	4.499	4.502	(0.558)	462749	50.0130	50.0	
19	Methyl tert-butyl ether	73	5.156	5.153	(0.640)	1312393	105.062	105	
20	Acetonitrile	39	5.564	5.568	(0.690)	84985	491.141	491	
21	Di-isopropyl ether	45	5.807	5.811	(0.721)	856333	49.5480	49.5	
22	Chloroprene	53	5.936	5.940	(0.737)	452440	50.9015	50.9	
23	Propionitrile	54	7.988	7.985	(0.991)	415368	557.085	557	
24	Methacrylonitrile	41	8.009	8.013	(0.994)	1662094	549.923	550	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7870.D
Report Date: 15-Jul-2014 12:18

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	25	1,1-Dichloroethane	63	5.972	5.975	(0.741)	586569	53.1481	53.1	
	26	Acrylonitrile	52	6.064	6.068	(0.752)	445482	263.159	263	
	27	Ethyl tertiary-butyl ether	59	6.372	6.376	(0.791)	724623	50.0013	50.0	
	28	Vinyl Acetate	43	6.393	6.397	(0.733)	627147	48.8280	48.8	
	29	cis-1,2-Dichloroethene	96	6.787	6.783	(0.842)	347552	49.0613	49.1	
M	30	1,2-Dichloroethylene (total)	96				672786	98.0121	98.0	
	31	Methyl Methacrylate	41	9.590	9.586	(1.099)	219285	44.7027	44.7	
	32	2,2-Dichloropropane	77	6.930	6.934	(0.860)	453072	52.8062	52.8	
	33	Bromochloromethane	128	7.058	7.062	(0.876)	176465	49.0176	49.0	
	34	Chloroform	83	7.180	7.177	(0.891)	596104	52.6108	52.6	
	35	Carbon Tetrachloride	117	7.344	7.341	(0.842)	478247	53.6258	53.6	
	36	Tetrahydrofuran	42	7.387	7.384	(0.917)	64323	48.3279	48.3	
$	37	Dibromofluoromethane	113	7.423	7.427	(0.921)	328738	47.5080	47.5	
	38	1,1,1-Trichloroethane	97	7.437	7.441	(0.923)	536485	53.0685	53.1	
	39	1,1-Dichloropropene	75	10.884	10.888	(1.247)	428206	52.8131	52.8	
	40	2-Butanone	43	7.609	7.606	(0.944)	112623	52.9735	53.0	
	41	Benzene	78	7.931	7.935	(0.909)	1196696	48.9007	48.9	
*	42	Pentafluorobenzene	168	8.059	8.063	(1.000)	1217735	50.0000		
	43	Cyclohexane	56	7.044	7.048	(0.874)	471461	49.9526	50.0	
	44	Ethyl Methacrylate	69	11.077	11.081	(1.270)	342947	45.7380	45.7	
$	45	1,2-Dichloroethane-D4	65	8.109	8.113	(1.006)	348177	49.4675	49.5	
	46	Tertiary-amyl methyl ether	73	8.102	8.099	(1.005)	589203	47.5056	47.5	
	47	1,2-Dichloroethane	62	8.195	8.199	(0.939)	439107	54.4422	54.4	
	48	Trichloroethene	95	8.674	8.670	(0.994)	339174	50.8357	50.8	
*	49	1,4-Difluorobenzene	114	8.724	8.721	(1.000)	1793795	50.0000		
	50	Dibromomethane	93	9.182	9.186	(1.052)	204051	48.4701	48.5	
	51	1,2-Dichloropropane	63	9.304	9.307	(1.066)	303785	51.3898	51.4	
	52	Bromodichloromethane	83	9.389	9.386	(1.076)	451316	53.8537	53.8	
	53	cis-1,3-dichloropropene	75	10.126	10.130	(1.161)	492212	52.0507	52.0	
	54	1,4-Dioxane	88	9.625	9.629	(1.103)	66543	860.707	861	
$	55	Toluene-D8	98	10.340	10.344	(1.185)	1063142	47.3980	47.4	
	56	2-Chloroethylvinylether	63	10.069	10.065	(1.154)	68843	34.8105	34.8	
	57	Toluene	92	10.397	10.401	(1.192)	798002	49.6681	49.7	
	58	4-methyl-2-pentanone	43	10.848	10.845	(1.243)	214215	46.8696	46.9	
	59	Tetrachloroethene	164	10.841	10.845	(0.888)	302659	42.9236	42.9	
	60	trans-1,3-Dichloropropene	75	10.884	10.888	(1.247)	428206	52.8131	52.8	
	61	1,1,2-Trichloroethane	83	11.077	11.073	(1.270)	242615	49.8054	49.8	
	62	Dibromochloromethane	129	11.284	11.288	(0.924)	347540	49.4280	49.4	
	63	1,3-Dichloropropane	76	11.398	11.402	(0.934)	500626	51.6030	51.6	
	64	1,2-Dibromoethane	107	11.570	11.574	(1.326)	299659	47.5853	47.6	
	65	2-Hexanone	43	11.856	11.860	(0.971)	148358	44.1739	44.2	
*	66	Chlorobenzene-D5	117	12.206	12.210	(1.000)	1794320	50.0000		
	67	Chlorobenzene	112	12.235	12.232	(1.002)	942361	51.7628	51.8	
	152	1-Chlorohexane	91	12.199	12.203	(0.999)	514766	47.5849	47.6	
	68	Ethylbenzene	106	12.264	12.268	(1.005)	506301	47.5803	47.6	
	69	1,1,1,2-Tetrachloroethane	131	12.314	12.318	(1.009)	367804	50.6916	50.7	
M	70	Xylenes (total)	106				1887683	160.575	160	
	71	m+p-Xylenes	106	12.457	12.453	(1.021)	1270008	105.595	106	
	72	o-Xylene	106	13.029	13.025	(1.067)	617675	54.9798	55.0	
	73	Styrene	104	13.100	13.097	(1.073)	1022012	53.0855	53.1	
	74	Bromoform	173	13.136	13.140	(1.076)	253995	51.1517	51.2	
	75	Isopropylbenzene	105	13.458	13.462	(0.866)	1594656	52.7475	52.7	
$	76	P-Bromofluorobenzene	95	13.858	13.855	(1.588)	475950	49.4996	49.5	
	77	cis-1,4-Dichloro-2-Butene	53	13.958	13.962	(0.898)	95349	44.5848	44.6	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7870.D
Report Date: 15-Jul-2014 12:18

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.416	14.420	(0.928)	93406	46.8186	46.8	
	79 Bromobenzene	156	14.008	14.005	(0.902)	444001	49.0255	49.0	
	80 N-Propylbenzene	91	14.044	14.048	(0.904)	1947588	56.5684	56.6	
	81 1,1,2,2-Tetrachloroethane	83	14.158	14.155	(0.911)	381249	52.1193	52.1	
	82 1,3,5-Trimethylbenzene	105	14.337	14.341	(0.923)	1342329	47.8115	47.8	
	83 2-Chlorotoluene	91	14.273	14.277	(0.919)	1135140	57.5011	57.5	
	84 1,2,3-Trichloropropane	75	14.352	14.355	(0.924)	301988	53.4079	53.4	
	85 4-Chlorotoluene	91	14.523	14.520	(0.935)	1180657	59.7934	59.8	
	86 tert-Butylbenzene	119	14.816	14.813	(0.954)	1440595	56.6172	56.6	
	87 Pentachloroethane	117	14.845	14.849	(0.955)	312947	51.9020	51.9	
	88 1,2,4-Trimethylbenzene	105	14.924	14.927	(0.960)	1329110	48.5356	48.5	
	89 P-Isopropyltoluene	119	15.317	15.313	(0.986)	1533600	51.9149	51.9	
	90 1,3-Dichlorobenzene	146	15.424	15.421	(0.993)	826731	53.2521	53.2	
*	91 1,4-Dichlorobenzene-D4	152	15.538	15.542	(1.000)	1033307	50.0000		
	92 1,4-Dichlorobenzene	146	15.560	15.564	(1.001)	855169	48.9927	49.0	
	93 N-Butylbenzene	91	15.989	15.993	(1.029)	1489226	53.7962	53.8	
	94 sec-Butylbenzene	105	15.088	15.092	(0.971)	1828622	54.3095	54.3	
	95 1,2-Dichlorobenzene	146	16.239	16.242	(1.045)	747482	53.7792	53.8	
	96 1,2-Dibromo-3-Chloropropane	75	17.591	17.594	(1.132)	48736	46.3931	46.4	
	97 1,3,5-Trichlorobenzene	180	17.648	17.644	(1.136)	608440	47.9923	48.0	
	98 Hexachlorobutadiene	225	18.749	18.746	(1.207)	261421	51.5292	51.5	
	99 1,2,4-Trichlorobenzene	180	18.785	18.788	(1.209)	412240	48.4445	48.4	
	100 1,2,3-Trimethylbenzene	105	15.603	15.607	(1.004)	1323625	51.3656	51.4	
	101 Naphthalene	128	19.371	19.375	(1.247)	602324	44.2485	44.2	
	102 1,2,3-Trichlorobenzene	180	19.707	19.711	(1.268)	220442	48.6772	48.7	
	103 Methyl Acetate	43	4.999	4.996	(0.620)	196122	50.4357	50.4	
	104 Methylcyclohexane	83	8.653	8.650	(1.074)	548190	49.9409	49.9	
M	153 Total Alkylbenzenes	100				10911070	369.553	370	


Y (x10^6)
Min
-Chloromethane (2.240)
-Vinyl chloride (2.347)
-Bromomethane (2.747)
-Chloroethane (2.897)
-Trichlorofluoromethane (3.076)
-Diethyl Ether (3.512)
-1,1-Dichloroethene (3.777)+
-Iodomethane (3.984)
-Acrolein (4.292)
-Allyl Chloride (4.499)
-Methylene Chloride (4.678)
-Acetone (4.778)
-trans-1,2-Dichloroethene (4.950)+
-Methyl tert-butyl ether (5.157)
-Tertiary-butyl alcohol (5.364)
-Acetonitrile (5.564)
-Di-isopropyl ether (5.808)
-Chloroprene (6.026)+
-Acrylonitrile (6.085)
-Ethyl tertiary-butyl ethe (6.380)+
-cis-1,2-Dichloroethene (6.787)
-2,2-Dichloropropane (6.930)
-Bromochloromethane (7.052)+
-Chloroform (7.180)
-Carbon Tetrachloride (7.345)+
-2-Butanone (7.609)
-Propionitrile (7.831)+
-Isobutyl Alcohol (8.196)+
-Trichloroethene (8.660)+
1,4-Difluorobenzene (8.725)
-Dibromomethane (9.182)
-Bromodichloromethane (9.396)
-Methyl Methacrylate (9.590)+
-2-Chloroethylvinylether (10.063)
-trans-1,3-Dichloropropene (10.126)
-Toluene-D8 (10.341)
-Toluene (10.398)
-1,1-Dichloropropene (10.841)+
-Ethyl Methacrylate (11.077)+
-Dibromochloromethane (11.285)
-1,3-Dichloropropane (11.399)
-1,2-Dibromoethane (11.571)
-2-Hexanone (11.857)
-1,1,1,2-Tetrachloroethane (12.314)
Chlorobenzene-D5 (12.207)+
m+p-Xylenes (12.457)
-o-Xylene (13.022)
-Styrene (13.101)+
-Isopropylbenzene (13.458)
-P-Bromofluorobenzene (13.859)
-cis-1,4-Dichloro-2-Butene (14.009)+
-1,1,2,2-Tetrachloroethane (14.159)
-2-Chlorotoluene (14.273)
1,2,3-Trimethylbenzene (14.338)+
-trans-1,4-Dichloro-2-Bute (14.416)
4-Chlorotoluene (14.524)
-tert-Butylbenzene (14.817)+
1,2,4-Trimethylbenzene (14.924)
-sec-Butylbenzene (15.088)
-P-Isopropyltoluene (15.317)
-1,3-Dichlorobenzene (15.428)
1,4-Dichlorobenzene-D4 (15.546)+
-N-Butylbenzene (15.989)
1,2-Dichloroethylene (tot (16.080)
-1,2-Dichlorobenzene (16.240)
-1,2-Dibromo-3-Chloropropa (17.591)
1,3,5-Trichlorobenzene (17.641)
-Hexachlorobutadiene (18.749)+
-Naphthalene (19.371)
-1,2,3-Trichlorobenzene (19.707)
Xylenes (total) (21.380)
Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7870.D
Date : 24-JUN-2014 08:39
Client ID: WG145321-LCS
Sample Info: WG145321-1,WE53-7
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-c.i
Operator: REC
Column diameter: 0.18
\\target_server\gg\chem\gcms-c.i\C062414.b\C7870.D

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG145586-1
Client ID: LCS
Project:
SDG: WE53-7
LCS File ID: D9206.D

Sample Date:
Received Date:
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Chloromethane	112.	50.0	56.0	ug/L	40-125
Chloroethane	96.4	50.0	48.2	ug/L	60-135
1,1-Dichloroethene	90.2	50.0	45.1	ug/L	70-130
Methylene Chloride	97.2	50.0	48.6	ug/L	55-140
Acetone	133.	50.0	66.4	ug/L	40-140
trans-1,2-Dichloroethene	90.6	50.0	45.3	ug/L	60-140
Methyl tert-butyl Ether	85.9	100.	85.9	ug/L	65-125
1,1-Dichloroethane	91.4	50.0	45.7	ug/L	70-135
cis-1,2-Dichloroethene	93.8	50.0	46.9	ug/L	70-125
Chloroform	91.6	50.0	45.8	ug/L	65-135
Carbon Tetrachloride	97.6	50.0	48.8	ug/L	65-140
1,1,1-Trichloroethane	97.4	50.0	48.7	ug/L	65-130
Benzene	92.4	50.0	46.2	ug/L	80-120
1,2-Dichloroethane	89.8	50.0	44.9	ug/L	70-130
Trichloroethene	93.4	50.0	46.7	ug/L	70-125
Toluene	93.8	50.0	46.9	ug/L	75-120
1,1,2-Trichloroethane	99.2	50.0	49.6	ug/L	75-125
Chlorobenzene	95.4	50.0	47.7	ug/L	80-120
Ethylbenzene	86.6	50.0	43.3	ug/L	75-125
m+p-Xylenes	97.4	100.	97.4	ug/L	75-130
o-Xylene	92.0	50.0	46.0	ug/L	80-120
Styrene	87.2	50.0	43.6	ug/L	65-135
Isopropylbenzene	105.	50.0	52.6	ug/L	75-125
1,1,2,2-Tetrachloroethane	97.4	50.0	48.7	ug/L	65-130
1,3-Dichlorobenzene	100.	50.0	50.2	ug/L	75-125
1,4-Dichlorobenzene	86.8	50.0	43.4	ug/L	75-125
1,2-Dichlorobenzene	102.	50.0	50.8	ug/L	70-120
1,2,4-Trichlorobenzene	98.8	50.0	49.4	ug/L	65-135
Xylenes (Total)	95.3	150.	143.	ug/L	89-116
Methylcyclohexane	95.4	50.0	47.7	ug/L	73-125
2-Hexanone	89.8	50.0	44.9	ug/L	55-130
Vinyl Chloride	100.	50.0	50.2	ug/L	50-145
Tetrachloroethene	88.2	50.0	44.1	ug/L	45-150
P-Bromofluorobenzene	103.				75-120
Toluene-d8	104.				85-120

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

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LCS Recovery Report

Client:
Lab ID: WG145586-1
Client ID: LCS
Project:
SDG: WE53-7
LCS File ID: D9206.D

Sample Date:
Received Date:
Extract Date: 28-JUN-14
Extracted By: DJP
Extraction Method: SW846 5030
Lab Prep Batch: WG145586

Analysis Date: 28-JUN-14
Analyst: DJP
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA
Report Date: 15-JUL-14

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
1,2-Dichloroethane-d4	85.6				70-120
Dibromofluoromethane	94.0				85-115

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
Tel:(207) 874-2400 Fax:(207) 775-4029

http://www.katahdinlab.com

Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9206.D
Report Date: 15-Jul-2014 12:27

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-d.i\D062814.b\D9206.D
Lab Smp Id: WG145586-1 Client Smp ID: WG145586-LCS
Inj Date : 28-JUN-2014 09:18 MS Autotune Date: 20-AUG-2013 10:26
Operator : DJP Inst ID: gcms-d.i
Smp Info : WG145586-1,WE53-7
Misc Info : WG145586,WG144515-4,SH4521-18
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-d.i\D062814.b\D826A48.m
Meth Date : 30-Jun-2014 06:27 djpaul Quant Type: ISTD
Cal Date : 11-JUN-2014 15:07 Cal File: D8863.D
Als bottle: 2 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: D2400TARGET-1

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1	Dichlorodifluoromethane	85	2.007	2.011	(0.253)	299704	54.6267	54.6	
2	Chloromethane	50	2.236	2.233	(0.282)	313759	56.0552	56.0	
3	Vinyl chloride	62	2.336	2.333	(0.295)	345670	50.2463	50.2	
4	Bromomethane	94	2.715	2.712	(0.343)	194891	47.8564	47.8	
5	Chloroethane	64	2.872	2.869	(0.362)	218388	48.2032	48.2	
6	Trichlorofluoromethane	101	3.051	3.048	(0.385)	525995	50.7347	50.7	
7	Diethyl Ether	59	3.437	3.441	(0.434)	206980	50.9768	51.0	
8	Tertiary-butyl alcohol	59	5.189	5.186	(0.655)	96445	331.212	331	
9	1,1-Dichloroethene	96	3.702	3.705	(0.467)	205119	45.1335	45.1	
10	Carbon Disulfide	76	3.744	3.741	(0.472)	883965	58.5820	58.6	
11	Freon-113	151	3.766	3.770	(0.475)	110364	43.8289	43.8	
12	Iodomethane	142	3.895	3.891	(0.491)	238358	69.0551	69.0	
13	Acrolein	56	4.166	4.170	(0.526)	188771	254.324	254	
14	Methylene Chloride	84	4.545	4.549	(0.573)	267713	48.6255	48.6	
15	Acetone	43	4.624	4.621	(0.583)	86024	66.4228	66.4	
16	Isobutyl Alcohol	43	8.120	8.117	(1.024)	144524	1399.10	1400	
17	trans-1,2-Dichloroethene	96	4.817	4.821	(0.608)	235122	45.3084	45.3	
18	Allyl Chloride	41	4.388	4.392	(0.554)	261659	44.8956	44.9	
19	Methyl tert-butyl ether	73	5.010	5.014	(0.632)	906060	85.8708	85.9	
20	Acetonitrile	39	5.382	5.379	(0.679)	56752	534.067	534	
21	Di-isopropyl ether	45	5.668	5.672	(0.715)	572300	46.3458	46.3	
22	Chloroprene	53	5.797	5.800	(0.731)	264702	46.2177	46.2	
23	Propionitrile	54	7.813	7.824	(0.986)	377329	522.406	522	

Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9206.D
Report Date: 15-Jul-2014 12:27

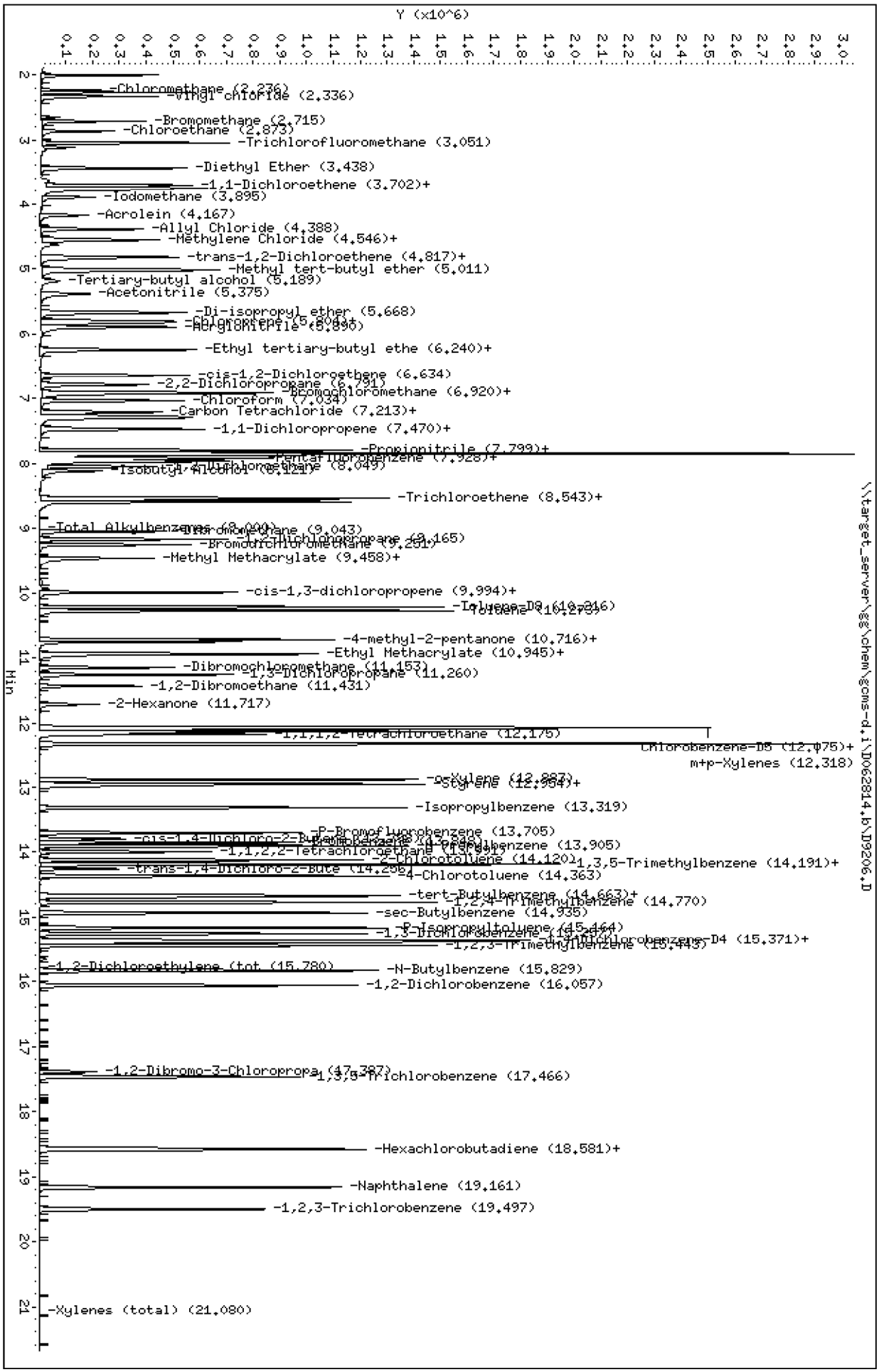
			QUANT SIG					CONCENTRATIONS		
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
	24	Methacrylonitrile	41	7.849	7.860	(0.990)	1280271	495.971	496	
	25	1,1-Dichloroethane	63	5.825	5.829	(0.735)	428084	45.7290	45.7	
	26	Acrylonitrile	52	5.890	5.893	(0.743)	369782	255.202	255	
	27	Ethyl tertiary-butyl ether	59	6.240	6.237	(0.787)	273878	40.9705	41.0(R)	
	28	Vinyl Acetate	43	6.240	6.244	(0.727)	463957	48.3492	48.3	
	29	cis-1,2-Dichloroethene	96	6.633	6.637	(0.837)	259149	46.8766	46.9	
M	30	1,2-Dichloroethylene (total)	96				494271	92.1849	92.2	
	31	Methyl Methacrylate	41	9.457	9.454	(1.102)	158699	55.6459	55.6	
	32	2,2-Dichloropropane	77	6.790	6.787	(0.857)	285051	49.3307	49.3	
	33	Bromochloromethane	128	6.912	6.916	(0.872)	125660	48.4122	48.4	
	34	Chloroform	83	7.034	7.037	(0.887)	421687	45.7529	45.8	
	35	Carbon Tetrachloride	117	7.212	7.216	(0.840)	287431	48.8031	48.8	
	36	Tetrahydrofuran	42	7.241	7.238	(0.913)	53057	52.3270	52.3	
$	37	Dibromofluoromethane	113	7.277	7.281	(0.918)	229485	47.0200	47.0	
	38	1,1,1-Trichloroethane	97	7.298	7.302	(0.921)	354308	48.7161	48.7	
	39	1,1-Dichloropropene	75	7.470	7.474	(0.870)	307974	46.4664	46.5	
	40	2-Butanone	43	7.448	7.445	(0.940)	109907	59.2513	59.2	
	41	Benzene	78	7.791	7.795	(0.908)	1003864	46.1951	46.2	
*	42	Pentafluorobenzene	168	7.927	7.931	(1.000)	516090	50.0000		
	43	Cyclohexane	56	6.926	6.930	(0.874)	295386	44.1778	44.2	
	44	Ethyl Methacrylate	69	10.952	10.956	(1.276)	291713	58.8266	58.8	
$	45	1,2-Dichloroethane-D4	65	7.963	7.967	(1.004)	248370	42.8256	42.8	
	46	Tertiary-amyl methyl ether	73	7.970	7.974	(1.005)	214817	39.5304	39.5(R)	
	47	1,2-Dichloroethane	62	8.049	8.053	(0.938)	300259	44.9415	44.9	
	48	Trichloroethene	95	8.542	8.545	(0.995)	240812	46.7019	46.7	
*	49	1,4-Difluorobenzene	114	8.585	8.589	(1.000)	839368	50.0000		
	50	Dibromomethane	93	9.043	9.047	(1.053)	161133	48.4117	48.4	
	51	1,2-Dichloropropane	63	9.164	9.168	(1.067)	241476	48.4780	48.5	
	52	Bromodichloromethane	83	9.250	9.254	(1.077)	335882	51.2393	51.2	
	53	cis-1,3-dichloropropene	75	9.994	9.998	(1.164)	395695	45.3522	45.4	
	54	1,4-Dioxane	88	9.493	9.497	(1.106)	56076	1227.24	1230	
$	55	Toluene-D8	98	10.215	10.219	(1.190)	877680	51.8742	51.9	
	56	2-Chloroethylvinylether	63	9.936	9.933	(1.157)	13207	19.8431	19.8	
	57	Toluene	92	10.273	10.276	(1.197)	610094	46.9497	46.9	
	58	4-methyl-2-pentanone	43	10.709	10.713	(1.247)	186595	49.2025	49.2	
	59	Tetrachloroethene	164	10.723	10.727	(0.889)	185831	44.1296	44.1	
	60	trans-1,3-Dichloropropene	75	10.752	10.755	(1.252)	347371	48.4486	48.4	
	61	1,1,2-Trichloroethane	83	10.938	10.941	(1.274)	201514	49.5977	49.6	
	62	Dibromochloromethane	129	11.152	11.156	(0.924)	250719	50.1334	50.1	
	63	1,3-Dichloropropane	76	11.259	11.263	(0.933)	422649	49.3730	49.4	
	64	1,2-Dibromoethane	107	11.431	11.435	(1.331)	231998	49.6830	49.7	
	65	2-Hexanone	43	11.717	11.721	(0.971)	132353	44.8928	44.9	
*	66	Chlorobenzene-D5	117	12.067	12.071	(1.000)	820233	50.0000		
	67	Chlorobenzene	112	12.089	12.100	(1.002)	681457	47.7028	47.7	
	152	1-Chlorohexane	91	12.074	12.078	(1.001)	313704	46.6903	46.7	
	68	Ethylbenzene	106	12.132	12.143	(1.005)	331018	43.2657	43.3	
	69	1,1,1,2-Tetrachloroethane	131	12.174	12.178	(1.009)	223299	47.9581	48.0	
M	70	Xylenes (total)	106				1281511	143.421	143	
	71	m+p-Xylenes	106	12.325	12.329	(1.021)	879107	97.4570	97.4	
	72	o-Xylene	106	12.882	12.893	(1.068)	402404	45.9642	46.0	
	73	Styrene	104	12.954	12.958	(1.073)	697842	43.5908	43.6	
	74	Bromoform	173	12.982	12.986	(1.076)	162835	43.9506	44.0	
	75	Isopropylbenzene	105	13.318	13.322	(0.866)	935134	52.5847	52.6	
$	76	P-Bromofluorobenzene	95	13.705	13.708	(1.596)	326666	51.7105	51.7	

Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9206.D
Report Date: 15-Jul-2014 12:27

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
77	cis-1,4-Dichloro-2-Butene	53	13.798	13.801	(0.898)	64809	48.0764	48.1	
78	trans-1,4-Dichloro-2-Butene	53	14.248	14.259	(0.927)	61075	46.8513	46.8	
79	Bromobenzene	156	13.848	13.859	(0.901)	268469	46.6967	46.7	
80	N-Propylbenzene	91	13.905	13.909	(0.905)	1135373	53.6987	53.7	
81	1,1,2,2-Tetrachloroethane	83	13.991	13.994	(0.910)	336168	48.7341	48.7	
82	1,3,5-Trimethylbenzene	105	14.191	14.202	(0.923)	802532	44.6172	44.6	
83	2-Chlorotoluene	91	14.119	14.123	(0.919)	713706	50.3077	50.3	
84	1,2,3-Trichloropropane	75	14.184	14.188	(0.923)	270068	49.2294	49.2	
85	4-Chlorotoluene	91	14.362	14.373	(0.934)	774484	52.5012	52.5	
86	tert-Butylbenzene	119	14.663	14.667	(0.954)	754967	45.9708	46.0	
87	Pentachloroethane	117	14.684	14.688	(0.955)	180329	47.6932	47.7	
88	1,2,4-Trimethylbenzene	105	14.770	14.774	(0.961)	844523	46.0879	46.1	
89	P-Isopropyltoluene	119	15.163	15.167	(0.987)	795996	48.8196	48.8	
90	1,3-Dichlorobenzene	146	15.256	15.260	(0.993)	515183	50.1713	50.2	
* 91	1,4-Dichlorobenzene-D4	152	15.371	15.374	(1.000)	476492	50.0000		
92	1,4-Dichlorobenzene	146	15.392	15.403	(1.001)	547139	43.3579	43.4	
93	N-Butylbenzene	91	15.828	15.832	(1.030)	747646	49.5544	49.6	
94	sec-Butylbenzene	105	14.934	14.938	(0.972)	918069	49.7789	49.8	
95	1,2-Dichlorobenzene	146	16.057	16.068	(1.045)	528044	50.8002	50.8	
96	1,2-Dibromo-3-Chloropropane	75	17.387	17.390	(1.131)	61703	57.8290	57.8	
97	1,3,5-Trichlorobenzene	180	17.466	17.469	(1.136)	339298	51.2334	51.2	
98	Hexachlorobutadiene	225	18.567	18.578	(1.208)	134201	48.7396	48.7	
99	1,2,4-Trichlorobenzene	180	18.588	18.592	(1.209)	331436	49.3970	49.4	
100	1,2,3-Trimethylbenzene	105	15.442	15.453	(1.005)	894788	48.5789	48.6	
101	Naphthalene	128	19.160	19.171	(1.247)	952265	54.8113	54.8	
102	1,2,3-Trichlorobenzene	180	19.503	19.507	(1.269)	297355	51.9221	51.9	
103	Methyl Acetate	43	4.846	4.842	(0.611)	146418	50.4095	50.4	
104	Methylcyclohexane	83	8.535	8.539	(1.077)	263041	47.7400	47.7	
M 153	Total Alkylbenzenes	100				5999106	338.528	338	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.


Y (x10^6)
Min
-Chloromethane (2.236)
-Vinyl chloride (2.336)
-Bromomethane (2.715)
-Chloroethane (2.873)
-Trichlorofluoromethane (3.051)
-Diethyl Ether (3.438)
-1,1-Dichloroethene (3.702)+
-Iodomethane (3.895)
-Acrolein (4.167)
-Allyl Chloride (4.388)
-Methylene Chloride (4.546)+
-trans-1,2-Dichloroethene (4.817)+
-Methyl tert-butyl ether (5.011)
-Tertiary-butyl alcohol (5.189)
-Acetonitrile (5.375)
-Di-isopropyl ether (5.668)
-Acrylonitrile (5.890)
-Ethyl tertiary-butyl ethe (6.240)+
-cis-1,2-Dichloroethene (6.634)
-2,2-Dichloropropane (6.791)
-Bromochloromethane (6.920)+
-Chloroform (7.034)
-Carbon Tetrachloride (7.213)+
-1,1-Dichloropropene (7.470)+
-Propionitrile (7.799)+
-Pentafluorobenzene (7.928)+
-Isobutyl alcohol (8.121)
-Trichloroethene (8.543)+
-Dibromomethane (9.043)
-1,2-Dichloropropane (9.165)
-Bromodichloromethane (9.251)
-Methyl Methacrylate (9.458)+
-cis-1,3-dichloropropene (9.994)+
-Toluene-D8 (10.216)
-Toluene (10.273)
-4-methyl-2-pentanone (10.716)+
-Ethyl Methacrylate (10.945)+
-Dibromochloromethane (11.153)
-1,3-Dichloropropane (11.260)
-1,2-Dibromoethane (11.431)
-2-Hexanone (11.717)
-1,1,1,2-Tetrachloroethane (12.175)
Chlorobenzene-D5 (12.975)+
m+p-Xylenes (12.318)
-o-Xylene (12.887)
-Styrene (12.984)+
-Isopropylbenzene (13.319)
-P-Bromofluorobenzene (13.705)
-cis-1,4-Dichloro-2-Butene (13.844)
-Bromobenzene (13.905)
-n-Propylbenzene (13.905)
-1,1,2,2-Tetrachloroethane (13.961)
-2-Chlorotoluene (14.120)
1,3,5-Trimethylbenzene (14.191)+
-trans-1,4-Dichloro-2-Bute (14.296)
-4-Chlorotoluene (14.363)
-tert-Butylbenzene (14.663)+
-1,2,4-Trimethylbenzene (14.770)
-sec-Butylbenzene (14.935)
-P-Isopropyltoluene (15.464)
-1,3-Dichlorobenzene (15.484)
-1,4-Dichlorobenzene-D4 (15.371)+
-1,2,3-Trimethylbenzene (15.443)
-1,2-Dichloroethylene (tot (15.780)
-N-Butylbenzene (15.829)
-1,2-Dichlorobenzene (16.057)
-1,2-Dibromo-3-Chloropropa (17.387)
-1,3,5-Trichlorobenzene (17.466)
-Hexachlorobutadiene (18.581)+
-Naphthalene (19.161)
-1,2,3-Trichlorobenzene (19.497)
-Xylenes (total) (21.080)
\\target_server\gg\chem\gcms-d.i\D062814.b\D9206.D
Data File: \\target_server\gg\chem\gcms-d.i\D062814.b\D9206.D
Date : 28-JUN-2014 09:18
Client ID: WG145586-LCS
Sample Info: WG145586-1,WE53-7
Purge Volume: 5.0
Column phase: RTX-VMS
Instrument: gcms-d.i
Operator: DJP
Column diameter: 0.18

MS/MSD Recovery Report

MS ID: WG145321-5
MSD ID: WG145321-6
Sample ID: SH4521-8
Client ID: FTA-MW-210-061814
Project:
SDG: WE53-7
MS File ID: C7887.D

Received Date:
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321
Report Date: 15-JUL-14
MSD File ID: C7888.D

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

Compound	MS Spike	MSD Spike	Conc Units	Samp Conc	MS Conc	MSD Conc	MS Rec (%)	MSD Rec (%)	RPD (%)	RPD Limit	Limits
Chloromethane	50.0	50.0	ug/L	U1.0	58.7	59.6	117.	119.	2	30	40-125
Chloroethane	50.0	50.0	ug/L	U1.0	62.4	50.6	125.	101.	21	30	60-135
1,1-Dichloroethene	50.0	50.0	ug/L	U0.50	59.4	59.3	119.	119.	0	30	70-130
Methylene Chloride	50.0	50.0	ug/L	U2.5	56.9	57.3	114.	115.	1	30	55-140
Acetone	50.0	50.0	ug/L	U2.5	50.4	51.1	101.	102.	1	30	40-140
trans-1,2-Dichloroethene	50.0	50.0	ug/L	U0.50	54.4	54.3	109.	109.	0	30	60-140
Methyl tert-butyl Ether	100.	100.	ug/L	U0.50	103.	108.	103.	108.	5	30	65-125
1,1-Dichloroethane	50.0	50.0	ug/L	1.0	63.3	61.4	125.	121.	3	30	70-135
cis-1,2-Dichloroethene	50.0	50.0	ug/L	U0.50	55.6	54.0	111.	108.	3	30	70-125
Chloroform	50.0	50.0	ug/L	U0.50	59.4	58.2	119.	116.	2	30	65-135
Carbon Tetrachloride	50.0	50.0	ug/L	U0.50	57.1	55.6	114.	111.	3	30	65-140
1,1,1-Trichloroethane	50.0	50.0	ug/L	1.0	62.0	58.7	122.	115.	5	30	65-130
Benzene	50.0	50.0	ug/L	U0.50	55.0	53.5	110.	107.	3	30	80-120
1,2-Dichloroethane	50.0	50.0	ug/L	U0.50	57.8	55.2	116.	110.	5	30	70-130
Trichloroethene	50.0	50.0	ug/L	U0.50	57.0	54.4	114.	109.	5	30	70-125
Toluene	50.0	50.0	ug/L	U0.50	55.2	52.8	110.	106.	4	30	75-120
1,1,2-Trichloroethane	50.0	50.0	ug/L	U0.50	54.1	52.3	108.	105.	3	30	75-125
Chlorobenzene	50.0	50.0	ug/L	U0.50	55.6	54.4	111.	109.	2	30	80-120
Ethylbenzene	50.0	50.0	ug/L	U0.50	50.8	49.7	102.	99.4	2	30	75-125
m+p-Xylenes	100.	100.	ug/L	U1.0	114.	110.	114.	110.	4	30	75-130
o-Xylene	50.0	50.0	ug/L	U0.50	56.6	54.8	113.	110.	3	30	80-120
Styrene	50.0	50.0	ug/L	U0.50	55.2	53.3	110.	107.	4	30	65-135
Isopropylbenzene	50.0	50.0	ug/L	U0.50	57.0	55.1	114.	110.	3	30	75-125
1,1,2,2-Tetrachloroethane	50.0	50.0	ug/L	U0.50	52.8	50.9	106.	102.	4	30	65-130
1,3-Dichlorobenzene	50.0	50.0	ug/L	U0.50	55.7	53.6	111.	107.	4	30	75-125
1,4-Dichlorobenzene	50.0	50.0	ug/L	U0.50	50.9	48.9	102.	97.8	4	30	75-125
1,2-Dichlorobenzene	50.0	50.0	ug/L	U0.50	53.8	53.5	108.	107.	0	30	70-120
1,2,4-Trichlorobenzene	50.0	50.0	ug/L	U0.50	39.4	42.1	78.8	84.2	7	30	65-135
Xylenes (Total)	150.	150.	ug/L	U1.5	171.	165.	114.	110.	4	30	89-116
Methylcyclohexane	50.0	50.0	ug/L	U0.50	60.9	60.5	122.	121.	1	30	73-125
2-Hexanone	50.0	50.0	ug/L	U2.5	37.8	39.3	75.6	78.6	4	30	55-130
Vinyl Chloride	50.0	50.0	ug/L	U1.0	63.3	62.3	127.	125.	2	30	50-145
Tetrachloroethene	50.0	50.0	ug/L	U0.50	43.8	43.4	87.6	86.8	1	30	45-150

600 Technology Way
P.O. Box 540, Scarborough, ME 04070
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MS/MSD Recovery Report

MS ID: WG145321-5
MSD ID: WG145321-6
Sample ID: SH4521-8
Client ID: FTA-MW-210-061814
Project:
SDG: WE53-7
MS File ID: C7887.D

Received Date:
Extract Date: 24-JUN-14
Extracted By: REC
Extraction Method: SW846 5030
Lab Prep Batch: WG145321
Report Date: 15-JUL-14
MSD File ID: C7888.D

Analysis Date: 24-JUN-14
Analyst: REC
Analysis Method: SW846 8260B
Matrix: AQ
% Solids: NA

P-Bromofluorobenzene	102.	102.	75-120
Toluene-d8	95.0	95.2	85-120
1,2-Dichloroethane-d4	112.	111.	70-120
Dibromofluoromethane	96.2	97.6	85-115

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Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7887.D
Report Date: 15-Jul-2014 12:24

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-c.i\C062414.b\C7887.D
Lab Smp Id: WG145321-5 Client Smp ID: FTA-MW-210-061814MS
Inj Date : 24-JUN-2014 17:32 MS Autotune Date: 03-APR-2014 08:54
Operator : REC Inst ID: gcms-c.i
Smp Info : WG145321-5,WE53-7
Misc Info : WG145321,WG144357-4,SH4521-8
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-c.i\C062414.b\C826A08.m
Meth Date : 24-Jun-2014 08:53 DJPAUL Quant Type: ISTD
Cal Date : 09-JUN-2014 15:05 Cal File: C7531.D
Als bottle: 19 QC Sample: MS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: T6-O360

Concentration Formula: Amt * DF * 5/Vo * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vo	5.000	sample purged
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.000	2.000	(0.248)	306115	75.8059	75.8	
2 Chloromethane	50	2.243	2.236	(0.278)	388139	58.6698	58.7	
3 Vinyl chloride	62	2.343	2.343	(0.291)	355742	63.3076	63.3	
4 Bromomethane	94	2.751	2.744	(0.341)	247083	61.1301	61.1	
5 Chloroethane	64	2.901	2.894	(0.360)	153322	62.4495	62.4	
6 Trichlorofluoromethane	101	3.080	3.080	(0.382)	637697	73.9208	73.9(R)	
7 Diethyl Ether	59	3.509	3.509	(0.435)	195214	58.0888	58.1	
8 Tertiary-butyl alcohol	59	5.368	5.361	(0.666)	47867	190.706	191	
9 1,1-Dichloroethene	96	3.780	3.773	(0.469)	258912	59.4189	59.4	
10 Carbon Disulfide	76	3.809	3.809	(0.472)	811171	62.1852	62.2	
11 Freon-113	151	3.838	3.838	(0.476)	174468	50.1919	50.2	
12 Iodomethane	142	3.981	3.981	(0.494)	301138	51.7732	51.8	
13 Acrolein	56	4.295	4.288	(0.533)	181061	240.693	241	
14 Methylene Chloride	84	4.681	4.681	(0.581)	301191	56.8716	56.9	
15 Acetone	43	4.781	4.774	(0.593)	67865	50.4479	50.4	
16 Isobutyl Alcohol	43	8.271	8.271	(1.026)	132519	1004.73	1000	
17 trans-1,2-Dichloroethene	96	4.953	4.946	(0.614)	281810	54.3981	54.4	
18 Allyl Chloride	41	4.503	4.502	(0.558)	410999	56.9694	57.0	
19 Methyl tert-butyl ether	73	5.153	5.153	(0.639)	1007551	103.446	103	
20 Acetonitrile	39	5.575	5.568	(0.691)	71794	532.127	532	
21 Di-isopropyl ether	45	5.811	5.811	(0.721)	724835	53.7881	53.8	
22 Chloroprene	53	5.940	5.940	(0.737)	417701	60.2697	60.3	
23 Propionitrile	54	7.985	7.985	(0.990)	355949	612.266	612(R)	

Data File: \\target_server\gg\chem\gcms-c.i\C062414.b\C7887.D
Report Date: 15-Jul-2014 12:24

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	24 Methacrylonitrile	41	8.013	8.013	(0.994)	1571360	666.785	667(R)	
	25 1,1-Dichloroethane	63	5.975	5.975	(0.741)	544703	63.2983	63.3	
	26 Acrylonitrile	52	6.068	6.068	(0.753)	376194	285.013	285	
	27 Ethyl tertiary-butyl ether	59	6.376	6.376	(0.791)	562273	49.7600	49.8	
	28 Vinyl Acetate	43	6.397	6.397	(0.734)	526521	49.1642	49.2	
	29 cis-1,2-Dichloroethene	96	6.791	6.783	(0.842)	307177	55.6124	55.6	
M	30 1,2-Dichloroethylene (total)	96				588987	110.011	110	
	31 Methyl Methacrylate	41	9.586	9.586	(1.099)	175062	42.9355	42.9	
	32 2,2-Dichloropropane	77	6.934	6.934	(0.860)	358931	53.6528	53.6	
	33 Bromochloromethane	128	7.062	7.062	(0.876)	148540	52.9177	52.9	
	34 Chloroform	83	7.184	7.177	(0.891)	524850	59.4089	59.4	
	35 Carbon Tetrachloride	117	7.341	7.341	(0.842)	424729	57.1307	57.1	
	36 Tetrahydrofuran	42	7.391	7.384	(0.917)	45172	43.5276	43.5	
$	37 Dibromofluoromethane	113	7.427	7.427	(0.921)	259503	48.0975	48.1	
	38 1,1,1-Trichloroethane	97	7.441	7.441	(0.923)	488498	61.9735	62.0	
	39 1,1-Dichloropropene	75	10.888	10.888	(1.248)	369769	54.7086	54.7	
	40 2-Butanone	43	7.606	7.606	(0.943)	91424	55.1512	55.2	
	41 Benzene	78	7.935	7.935	(0.910)	1123178	55.0575	55.0	
*	42 Pentafluorobenzene	168	8.063	8.063	(1.000)	949487	50.0000		
	43 Cyclohexane	56	7.048	7.048	(0.874)	488504	66.5669	66.6(R)	
	44 Ethyl Methacrylate	69	11.081	11.081	(1.271)	278545	44.6059	44.6	
$	45 1,2-Dichloroethane-D4	65	8.113	8.113	(1.006)	307883	56.1008	56.1	
	46 Tertiary-amyl methyl ether	73	8.106	8.099	(1.005)	468313	48.4261	48.4	
	47 1,2-Dichloroethane	62	8.199	8.199	(0.940)	388882	57.8388	57.8	
	48 Trichloroethene	95	8.671	8.670	(0.994)	316906	56.9787	57.0	
*	49 1,4-Difluorobenzene	114	8.721	8.721	(1.000)	1495328	50.0000		
	50 Dibromomethane	93	9.186	9.186	(1.053)	172482	49.1490	49.1	
	51 1,2-Dichloropropane	63	9.307	9.307	(1.067)	279872	56.7945	56.8	
	52 Bromodichloromethane	83	9.393	9.386	(1.077)	404948	57.9656	58.0	
	53 cis-1,3-dichloropropene	75	10.130	10.130	(1.162)	396105	50.2482	50.2	
	54 1,4-Dioxane	88	9.629	9.629	(1.104)	49253	766.964	767	
$	55 Toluene-D8	98	10.344	10.344	(1.186)	888272	47.5063	47.5	
	57 Toluene	92	10.401	10.401	(1.193)	739569	55.2190	55.2	
	58 4-methyl-2-pentanone	43	10.852	10.845	(1.244)	181975	47.9644	48.0	
	59 Tetrachloroethene	164	10.845	10.845	(0.888)	268727	43.7563	43.8	
	60 trans-1,3-Dichloropropene	75	10.888	10.888	(1.248)	369769	54.7086	54.7	
	61 1,1,2-Trichloroethane	83	11.074	11.073	(1.270)	219550	54.0666	54.1	
	62 Dibromochloromethane	129	11.288	11.288	(0.924)	299238	48.8621	48.9	
	63 1,3-Dichloropropane	76	11.402	11.402	(0.934)	451407	53.4216	53.4	
	64 1,2-Dibromoethane	107	11.574	11.574	(1.327)	253572	48.3040	48.3	
	65 2-Hexanone	43	11.860	11.860	(0.971)	112717	37.8117	37.8	
*	66 Chlorobenzene-D5	117	12.210	12.210	(1.000)	1562834	50.0000		
	67 Chlorobenzene	112	12.232	12.232	(1.002)	882394	55.6481	55.6	
	152 1-Chlorohexane	91	12.203	12.203	(0.999)	486404	51.6230	51.6	
	68 Ethylbenzene	106	12.268	12.268	(1.005)	471366	50.8585	50.8	
	69 1,1,1,2-Tetrachloroethane	131	12.318	12.318	(1.009)	314739	49.8031	49.8	
M	70 Xylenes (total)	106				1750052	170.788	171	
	71 m+p-Xylenes	106	12.453	12.453	(1.020)	1196696	114.237	114	
	72 o-Xylene	106	13.026	13.025	(1.067)	553356	56.5503	56.6	
	73 Styrene	104	13.097	13.097	(1.073)	925502	55.1931	55.2	
	74 Bromoform	173	13.140	13.140	(1.076)	200573	46.3761	46.4	
	75 Isopropylbenzene	105	13.455	13.462	(0.866)	1516548	57.0397	57.0	
$	76 P-Bromofluorobenzene	95	13.855	13.855	(1.589)	411072	51.2855	51.3	
	77 cis-1,4-Dichloro-2-Butene	53	13.962	13.962	(0.898)	85585	44.9017	44.9	

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
	78 trans-1,4-Dichloro-2-Butene	53	14.420	14.420	(0.928)	82033	46.1854	46.2	
	79 Bromobenzene	156	14.005	14.005	(0.901)	396980	49.2024	49.2	
	80 N-Propylbenzene	91	14.048	14.048	(0.904)	1927847	64.7482	64.7	
	81 1,1,2,2-Tetrachloroethane	83	14.155	14.155	(0.911)	343892	52.7705	52.8	
	82 1,3,5-Trimethylbenzene	105	14.341	14.341	(0.923)	1277279	51.6701	51.7	
	83 2-Chlorotoluene	91	14.277	14.277	(0.919)	1071265	60.9121	60.9	
	84 1,2,3-Trichloropropane	75	14.355	14.355	(0.924)	279237	55.4330	55.4	
	85 4-Chlorotoluene	91	14.520	14.520	(0.934)	1129386	64.2024	64.2	
	86 tert-Butylbenzene	119	14.813	14.813	(0.953)	1357946	59.9058	59.9	
	87 Pentachloroethane	117	14.849	14.849	(0.955)	286526	53.3405	53.3	
	88 1,2,4-Trimethylbenzene	105	14.927	14.927	(0.960)	1271624	52.7414	52.7	
	89 P-Isopropyltoluene	119	15.314	15.313	(0.985)	1476031	56.9536	57.0	
	90 1,3-Dichlorobenzene	146	15.421	15.421	(0.992)	770284	55.6933	55.7	
*	91 1,4-Dichlorobenzene-D4	152	15.542	15.542	(1.000)	920555	50.0000		
	92 1,4-Dichlorobenzene	146	15.564	15.564	(1.001)	791269	50.8842	50.9	
	93 N-Butylbenzene	91	15.993	15.993	(1.029)	1403699	57.6398	57.6	
	94 sec-Butylbenzene	105	15.085	15.092	(0.971)	1764748	60.0582	60.0	
	95 1,2-Dichlorobenzene	146	16.236	16.242	(1.045)	665832	53.7722	53.8	
	96 1,2-Dibromo-3-Chloropropane	75	17.587	17.594	(1.132)	41671	44.6398	44.6	
	97 1,3,5-Trichlorobenzene	180	17.644	17.644	(1.135)	485450	42.9812	43.0	
	98 Hexachlorobutadiene	225	18.746	18.746	(1.206)	172753	38.2224	38.2	
	99 1,2,4-Trichlorobenzene	180	18.781	18.788	(1.208)	296887	39.3727	39.4	
	100 1,2,3-Trimethylbenzene	105	15.607	15.607	(1.004)	1231384	53.6390	53.6	
	101 Naphthalene	128	19.375	19.375	(1.247)	421595	35.0676	35.1	
	102 1,2,3-Trichlorobenzene	180	19.711	19.711	(1.268)	132798	33.0043	33.0	
	103 Methyl Acetate	43	5.003	4.996	(0.620)	157770	52.0355	52.0	
	104 Methylcyclohexane	83	8.650	8.650	(1.073)	521427	60.9232	60.9	
M	153 Total Alkylbenzenes	100				10479174	403.717	404	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.