N90845.AR.001866
NWIRP BETHPAGE
5090.3a

VALIDATED DATA PACKAGE, SI4000, NWIRP BETHPAGE NY
7/6/2015
KATAHDIN ANALYTICAL SERVICES

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Katahdin Analytical Services
CITY/STATE Scarborough, Maine

CASE NO. WE15 SDG NO. SI 4000 SDG NOS. TO FOLLOW
SAS NO.

CONTRACT NO.
SOW NO.

All documents delivered in the Complete SDG File must be original documents where possible.

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
1. Inventory Sheet (Form DC-2) (Do not Number)	0000001	0000005	✓	
2. SDG Case Narrative	0000008	0000009	✓	
3. SDG Cover Sheet/Traffic Report	0000006	0000007	✓	
4. Volatiles Data				
a. QC Summary				
System Monitoring Compound Summary (Form II	0000015	0000017	✓	
Matrix Spike/Matrix Spike Duplicate Summary (Form III VOA)	— ~~0000018~~	—	✓	
Method Blank Summary (Form IV VOA)	0000018	0000018	✓	
GC/MS Instrument Performance Check (Form V VOA)	0000019	0000020	✓	
Internal Standard Area and RT Summary (Form VIII VOA)	0000021	0000022	✓	
b. Sample Data	0000023	0000034		
TCL Results - (Form I VOA-1, VOA-2)			✓	
Tentatively Identified Compounds (Form I VOA-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds identified			✓	
Quantitation reports			✓	
Mass Spectra of all reported TICs with three best library matches			✓	
c. Standards Data (All Instruments)	0000035	0000082		
Initial Calibration Data (Form VI VOA-1, VOA-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII VOA-1, VOA-2)			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data			✓	
BFB	0000083	0000088	✓	
Blank Data	0000089	0000093	✓	
Martix Spike/Matrix Spike Duplicate Data	0000094	0000099	✓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. SF4000 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
5. **Semivolatiles Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II SV)	0000103	0000105	✓	
MS/MSD Summary (Form III SV)	—	—	✓	
Method Blank Summary (Form IV SV)	0000106	0000106	✓	
GC/MS Instrument Performance Check (Form V SV)	0000107	0000108	✓	
Internal Standard Area and RT Summary (Form VIII SV)	0000109	0000109	✓	
b. Sample Data	0000110	0000115		
TCL Results - (Form I SV-1, SV-2)			✓	
Tentatively Identified Compounds (Form I SV-			✓	
Reconstructed total ion chromatograms (RIC) for each sample			✓	
For each sample:				
Raw Spectra and background-subtracted mass spectra of target compounds			✓	
Quantitation reports			✓	
Mass Spectra of TICs with three best library matches			✓	
GPC chromatograms (if GPC is required)			✓	
c. Standards Data (All Instruments)	0000116	0000137		
Initial Calibration Data (Form VI SV-1, SV-2)			✓	
RICs and Quan Reports for all Standards			✓	
Continuing Calibration Data (Form VII SV-1, SV-			✓	
RICs and Quantitation Reports for all Standards			✓	
d. Raw QC Data				
DFTPP	0000138	0000146	✓	
Blank Data	0000147	0000150	✓	
Matrix Spike/Matrix Spike Duplicate Data	0000151	0000155	✓	
e. Raw ~~GPC~~ Data — Logbooks	0000156	0000155	✓	
6. **Pesticides Data**				
a. QC Summary				
Surrogate Percent Recovery Summary (Form II	NA	NA	NA	
MS/MSD Duplicate Summary (Form III PEST)	↓	↓	↓	
Method Blank Summary (Form IV PEST)	↓	↓	↓	

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. SI4000 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. Pesticides Data (Cont.)				
b. Sample Data	NA	NA		
TCL Results - Organic Analysis Data Sheet (Form I PEST)			NA	
Chromatograms (Primary Column)				
Chromatograms from second GC column				
GC Integration report or data system printout				
Manual work sheets				
For pesticides/Aroclors by GC/MS, Copies of raw spectra and copies of background-subtracted mass spectra of target compounds (samples & standards)				
c. Standards Data	NA	NA		
Initial Calibration of Single Component (Form VI PEST-1 and PEST-2)				
Initial Calibration of Multicomponent Analytes (Form VI PEST-3)				
Analyte Resolution Summary (Form VI PEST-4)				
Performance Evaluation Mixture (Form VI PEST-5)				
Individual Standard Mixture A (FORM VI PEST-6)				
Individual Standard Mixture B (FORM VI PEST-7)				
Calibration Verification Summary (Form VII PEST-1)				
Calibration Verification Summary (Form VII PEST-2)				
Analytical Sequence (Form VIII PEST)				
Florisil Cartridge Check (Form IX PEST-1)				
Pesticide GPC Calibration (Form IX PEST-2)				
Pesticide Identification Summary for Single Component Analytes (Form X PEST-1)				
Pesticide Identification Summary for Multicomponent Analytes (Form X PEST-2)				
Chromatograms and data system printouts A printout of retention times and corresponding peak areas or peak heights				
d. Raw QC Data				
Blank Data	NA	NA		
Matrix Spke/Matrix Spike Duplicate Data	L	L		

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. BE4000 SDG NOS. TO FOLLOW _____
_____ _____ SAS NO. _____

	PAGE NOs FROM	PAGE NOs TO	CHECK LAB	CHECK EPA
6. **Pesticides Data** (Cont.)				
e. Raw GPC Data	NA	NA	NA	
f. Raw Florisil Data	↓	↓	↓	
7. **Miscellaneous Data**				
8260- Original preparation and analysis forms or of preparation and analysis logbook pages	0000100	0000102	✓	
Internal sample and sample extract transfer chain-of-custody records	0000014	0000014	✓	
Screening records	NA	NA	NA	
All instrument output, including strip charts from screening activities (describe or list)	↓	↓	↓	
8. **EPA Shipping/Receiving Documents**				
Airbills (No. of shipments _____)	↓	↓	↓	
Chain-of-Custody Records	0000012	0000012	✓	
Sample Tags				
Sample Log-in Sheet (Lab & DC1)	NA	NA	NA	
Miscellaneous Shipping/Receiving Records (describe or list)				
Sample Receipt Condition Report	0000011	0000011	✓	
Login Chain of Custody	0000013	0000013	✓	
9. **Internal Lab Sample Transfer Records and Tracking Sheets** (describe or list)				
	NA	NA	NA	
10. **Other Records** (describe or list)				
Telephone Communication Log	↓	↓	↓	

11. **Comments:** _____

FORM DC-2-4 OLM04.2

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET (cont.)

CASE NO. WE15 SDG NO. SI4000 SDG NOS. TO FOLLOW _____

_____ _____ SAS NO. _____

Completed by: (CLP Lab)	Leslie Dimond (Signature)	Leslie Dimond/QAO (Printed Name/Title)	07.06.15 (Date)
Verified by: (CLP Lab)	(Signature)	(Printed Name/Title)	(Date)
Audited by: (EPA)	(Signature)	(Printed Name/Title)	(Date)

0000005

ENSAFE
NAVY CLEAN WE15-03-06 NWIRP
BETHPAGE, NY
SI4000

KATAHDIN ANALYTICAL SERVICES, LLC
600 TECHNOLOGY WAY
SCARBOROUGH, ME 04074

SAMPLE DATA PACKAGE

SDG NARRATIVE
KATAHDIN ANALYTICAL SERVICES
ENSAFE
NAVY CLEAN WE15-03-06 NWIRP BETHPAGE, NY
SI4000

Sample Receipt

The following samples were received on June 10, 2015 and were logged in under Katahdin Analytical Services work order number SI4000 for a hardcopy due date of June 29, 2015.

KATAHDIN Sample No.	ENSAFE Sample Identification
SI4000-1	RE117DI-GW-060915
SI4000-2	RE117DI-TB-060915

The samples were logged in for the analyses specified on the chain of custody form. All problems encountered and resolved during sample receipt have been documented on the applicable chain of custody forms.

We certify that the test results provided in this report meet all the requirements of the NELAC standards unless otherwise noted in this narrative or in the Report of Analysis.

Sample analyses have been performed by the methods as noted herein.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact your Katahdin Analytical Services Project Manager, **Ms. Jennifer Obrin.** This narrative is an integral part of the Report of Analysis.

Organics Analysis

The samples of Work Order SI4000 were analyzed in accordance with "Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods." SW-846, 2nd edition, 1982 (revised 1984), 3rd edition, 1986, and Updates I, II, IIA, III, IIIA, and IIIB 1996, 1998 & 2004, Office of Solid Waste and Emergency Response, U.S. EPA, and/or for the specific methods listed below or on the Report of Analysis.

8260B Analysis

The initial calibration analyzed on the T instrument on 06/11/15 had %RSD values for several analytes that exceeded the method acceptance limit of 15%. For these analytes, either a linear or quadratic model was used for quantitation instead of an average response factor. The analyte chloroethane failed for both the linear and quadratic models in the initial calibration curve due to the correlation coefficient and the coefficient of determination being less than the method acceptance criteria of 0.995 and 0.990, respectively. This compound was calibrated using the average model.

The calibration verification standard (file T3830) had a low response for the target analyte dichlorodifluoromethane that resulted in a %D that exceeded the DoD QSM acceptance limits of 20%.

8270D SIM 1,4-Dioxane Analysis

There were no protocol deviations or observations noted by the organics laboratory staff for this analysis.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package has been authorized by the Operations Manager or the Quality Assurance Officer as verified by the following signature.

Leslie Dimond

Leslie Dimond
Quality Assurance Officer

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, Inc. **Sample Receipt Condition Report**

Client:	Res Con	KAS PM:	~~D~~ JO	Sampled By:	Client
Project:		KIMS Entry By:	AP	Delivered By:	FedEx
KAS Work Order#:	S13999-S13~~9~~4000 AP	KIMS Review By:	AP	Received By:	AP
SDG #:	Cooler: 1 of 1			Date/Time Rec.:	06/10/15 0905

Receipt Criteria	Y	N	EX*	NA	Comments and/or Resolution
1. Custody seals present / intact?	✓				
2. Chain of Custody present in cooler?	✓				
3. Chain of Custody signed by client?	✓				
4. Chain of Custody matches samples?	✓				
5. Temperature Blanks present? If not, take temperature of any sample w/ IR gun.		✓			Temp (°C): 3.9
Samples received at <6 °C w/o freezing?	✓				Note: Not required for metals (except Hg) analysis.
Ice packs or ice present?	✓				The lack of ice or ice packs (i.e. no attempt to begin cooling process) or insufficient ice may not meet certain regulatory requirements and may invalidate certain data.
If yes, was there sufficient ice to meet temperature requirements?	✓				
If temp. out, has the cooling process begun (i.e. ice or packs present) and sample collection times <6hrs., but samples are not yet cool?		✓		✓	Note: No cooling process required for metals (except Hg) analysis.
6. Volatiles:					
Aqueous: No bubble larger than a pea?	✓				
Soil/Sediment:					
Received in airtight container?				✓	
Received in methanol?				✓	
Methanol covering soil?				✓	
D.I. Water - Received within 48 hour HT?				✓	
Air: Refer to KAS COC for canister/flow controller requirements.	√ if air included				
7. Trip Blank present in cooler?	✓				
8. Proper sample containers and volume?	✓				
9. Samples within hold time upon receipt?	✓				
10. Aqueous samples properly preserved?					
Metals, COD, NH3, TKN, O/G, phenol, TPO4, N+N, TOC, DRO, TPH – pH <2				✓	
Sulfide - >9				✓	
Cyanide – pH >12				✓	

* Log-In Notes to Exceptions: document any problems with samples or discrepancies or pH adjustments.

514000

RESOLUTION CONSULTANTS

CHAIN OF CUSTODY AND ANALYTICAL REQUEST RECORD

COC No.: | Page 1 of 1

Project Name: MWRP Bethpage | PO No.: | Project No. 60266526 Phase FS WG

Site Location: Bethpage

CTO No. | RC Project Manager: B. Caldwell

Sampler/Site Phone#

Lab Name: | Turnaround Time(specify):

Sample Analysis Requested (*Enter number of containers for each test*)

Lab ID	Sample ID (sys_samp_code)	Location ID (sys_loc_code)	Date (mm/dd/yy)	Time (Military) (hhmm)	Matrix Code (1)	Sample Type (2)	Field Filtered (Y/N)	Total No. of Containers	VOC	1,4 Dioxane									Extra Volume for MS/MSD	HOLD
								(3)→	HCl	/										
	RE117D1-GW-060915		060915	1225	WG	N	N	5	3	2										
	RE117D1-TB-060915		020915	1145				3	3											

Field **Comments:** Sampled well RE117D1

Lab **Comments:**

Relinquished by (signature)	Date	Time	Received by (signature)	Date	Time
1	060915	1445	1 FedEx		
2			2	6/10/15	0905
3			3		

Sample Shipment and Delivery Details

Number of coolers in shipment:

Samples Iced?(check) Yes X No____

Method of Shipment: FedEx

Airbill No:

Date Shipped: 060915

(1) **AA**=Ambient air, **AQ**=Air quality control, **ASB**=Asbestos, **CK**=Caulk, **DS**=Storm drain sediment, **GS**=Soil gas, **IC**=IDW Concrete, **IDD**=IDW Solid, **IDS**=IDW soil, **IDW**=IDW Water, **LF**=Free Product, **MA**=Mastic, **PC**=Paint Chips, **SC**=Cement/Concrete, **SE**=Sediment, **SL**=Sludge, **SO**=Soil, **SQ**=Soil/Solid quality control, **SSD**=Subsurface sediment, **SU**=Surface soil (<6 in), **SW**=Swab or wipe, **TA**=Animal tissue, **TP**=Plant tissue, **TQ**=Tissue quality control, **WG**=Ground water, **WL**=Leachate, **WO**=Ocean water, **WP**=Drinking water, **WQ**=Water quality control, **WR**=Ground water effluent, **WS**=Surface water, **WU**=Storm water, **WW**=Waste water

(2) **Sample Type: AB**=Ambient Blk, **EB**=Equipment Blk, **FB**=Field Blk, **FD**=Field Duplicate Sample, **IDW**=Investigative-Derived Waste, **MIS**=Incremental Sampling Methodology, **N**=Normal Environmental Sample, **TB**=Trip Blk

(3) **Preservative added: HA**=Hydrochloric Acid, **NI**=Nitric Acid, **SH**=Sodium Hydroxide, **SA**=Sulfuric Acid, **ME**=Methanol, **SB**=sodium bisulfate, **ST**=Sodium Thiosulfate, **If NO preservative** added leave blank

Rev 5/12

000001

Katahdin
ANALYTICAL SERVICES

Katahdin Analytical Services

Login Chain of Custody Report (Ino1)

Jun. 11, 2015
11:04 AM

Login Number: SI4000

Account: ENSAFE001
ENSAFE

Web

Quote/Incoming: AECOM-BETHPAGE

Project: AECOM-BETHPAGE
NWIRP Bethpage, NY

Primary Report Address:
Dana Miller
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134
dmiller@Ensafe.com

Primary Invoice Address:
Accounts Payable
EnSafe
5724 Summer Trees Drive

Memphis,TN 38134

Report CC Addresses:
Invoice CC Addresses:

Login Information:

ANALYSIS INSTRUCTIONS	:	Form 1's due in 48 hrs. Follow DoD QSM Version 4.2 using DoD limits. "U" LOD. "J" flag between DL and LOQ. Must use soxhlet for PCB extraction.
CHECK NO.	:	
CLIENT PO#	:	16518
CLIENT PROJECT MANAGE	:	Brian Caldwell
CONTRACT	:	
COOLER TEMPERATURE	:	3.9
DELIVERY SERVICES	:	FedEx
EDD FORMAT	:	KAS135QC-CSV
LOGIN INITIALS	:	AP
PM	:	JO
PROJECT NAME	:	Navy Clean WE15-03-06 NWIRP Bethpage, NY
QC LEVEL	:	IV
REGULATORY LIST	:	
REPORT INSTRUCTIONS	:	Send Hardcopy and CD to Dana. Upload PDF and EDD to SDS folder. Email level 2 report to Dana. Email invoice to purchasing@ensafe.com.

Laboratory Sample ID	Client Sample Number	Collect Date/Time	SDG ID / SDG STATUS	Receive Date	PR	Verbal Date	Due Date	Mailed
SI4000-1	RE117DI-GW-060915	09-JUN-15 12:25		10-JUN-15		12-JUN-15	29-JUN-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	23-JUN-15	40mL Vial+HCl		
Aqueous	S	SW8270SIM-S	16-JUN-15	1L N-Amber Glass		

Laboratory Sample ID	Client Sample Number	Collect Date/Time	SDG ID / SDG STATUS	Receive Date	PR	Verbal Date	Due Date	Mailed
SI4000-2	RE117DI-TB-060915	09-JUN-15 11:45		10-JUN-15		12-JUN-15	29-JUN-15	

Matrix		Product	Hold Date (shortest)	Bottle Type	Bottle Count	Comments
Aqueous	S	SW8260-S	23-JUN-15	40mL Vial+HCl		

Total Samples: *2* ***Total Analyses:*** *3*

06.11.15

0000013

Katahdin Analytical Services, Inc.

Container Transfer History for SI4000

Samplenum SI4000-1

Container Id SI4000-1D **Containertype 1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
10-JUN-15 11:45	LOGIN	WALK-IN	APIMENTEL	N	
15-JUN-15 14:02	WALK-IN	ORGANIC PREP	HGOULD	N	
15-JUN-15 14:03	ORGANIC PREP	CONSUMED	HGOULD	N	

Container Id SI4000-1E **Containertype 1L N-Amber Glass** **Matrix AQ**

Product *SW8270SIM-S*

Transferdate	From	To	Analyst	Custody Break	Comments
10-JUN-15 11:45	LOGIN	WALK-IN	APIMENTEL	N	

VOLATILES DATA

QC Summary Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI4000

Client Sample ID	Lab Sample ID	Col. ID	BFB	#	DBF	#	DCA	#	TOL	#
RE117DI-GW-060915	SI4000-1RA		101.		111.		117.		110.	
RE117DI-TB-060915	SI4000-2RA		104.		115.		114.		113.	
Laboratory Control S	WG164674-1		97.3		105.		108.		106.	
Method Blank Sample	WG164674-2		103.		114.		116.		110.	

		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.

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

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

Form 4
Method Blank Summary - VOA

Lab Name : Katahdin Analytical Services
SDG : SI4000
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG164674-2
Lab File ID : T3834.D
Date Analyzed : 12-JUN-15
Instrument ID : GCMS-T
Time Analyzed : 11:16
Heated Purge : No

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	WG164674-1	T3831.D	06/12/15	09:22
RE117DI-TB-060915	SI4000-2RA	T3835.D	06/12/15	11:51
RE117DI-GW-060915	SI4000-1RA	T3836.D	06/12/15	12:26

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : TB909.D
Instrument ID : GCMS-T

SDG : SI4000
Date Analyzed : 11-JUN-15
Time Analyzed : 11:44
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	16.1		
75	30.0 - 60.0% of mass 95	45.7		
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	0.6	0.66	1
174	Greater than 50.0% of mass 95	88.7		
175	5.0 - 9.0% of mass 174	5.7	6.44	1
176	95.0 - 101.0% of mass 174	85.0	95.88	1
177	5.0 - 9.0% of mass 176	5.2	6.11	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	WG164633-4	T3807.D	06/11/15	13:22
Initial Calibration	WG164633-3	T3808.D	06/11/15	13:57
Initial Calibration	WG164633-2	T3809.D	06/11/15	14:32
Initial Calibration	WG164633-6	T3811.D	06/11/15	15:42
Initial Calibration	WG164633-5	T3812.D	06/11/15	16:17
Initial Calibration	WG164633-1	T3815.D	06/11/15	18:22
Independent Source	WG164633-7	T3817A.D	06/11/15	19:33

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

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

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 5
Volatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : TB910.D
Instrument ID : GCMS-T

SDG : SI4000
Date Analyzed : 12-JUN-15
Time Analyzed : 08:10
Heated Purge : No

m/e	Ion Abundance Criteria	% Relative Abundance		
50	15.0 - 40.0% of mass 95	15.8		
75	30.0 - 60.0% of mass 95	43.5		
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	0.4	0.50	1
174	Greater than 50.0% of mass 95	89.4		
175	5.0 - 9.0% of mass 174	6.4	7.21	1
176	95.0 - 101.0% of mass 174	88.3	98.77	1
177	5.0 - 9.0% of mass 176	5.7	6.41	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	WG164674-4	T3830.D	06/12/15	08:38
Laboratory Control S	WG164674-1	T3831.D	06/12/15	09:22
Method Blank Sample	WG164674-2	T3834.D	06/12/15	11:16
RE117DI-TB-060915	SI4000-2RA	T3835.D	06/12/15	11:51
RE117DI-GW-060915	SI4000-1RA	T3836.D	06/12/15	12:26

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

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

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG164633-4
Lab File ID : T3807.D

SDG: SI4000
Analytical Date: 06/11/15 13:22
Instrument ID: GCMS-T

		PENTAFLUOROBENZENE			1,4-DIFLUOROBENZENE			CHLOROBENZENE-D5		
		Area	#	RT	Area	#	RT	Area	#	RT
	Std .	627820		7.71	986077		8.39	862754		12.35
	Upper Limit	1255640		8.21	1972154		8.89	1725508		12.85
	Lower Limit	313910		7.21	493038.5		7.89	431377		11.85
Client Sample ID	Lab Sample ID									
Continuing Calibrati	WG164674-4	578912		7.71	915998		8.40	806536		12.35
Laboratory Control S	WG164674-1	580041		7.71	921495		8.39	809676		12.35
Method Blank Sample	WG164674-2	527869		7.71	835318		8.39	791348		12.35
RE117DI-TB-060915	SI4000-2RA	532064		7.71	817894		8.39	774573		12.35
RE117DI-GW-060915	SI4000-1RA	533240		7.71	841122		8.39	792352		12.35

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.

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG164633-4
Lab File ID : T3807.D

SDG: SI4000
Analytical Date: 06/11/15 13:22
Instrument ID: GCMS-T

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	481993		15.69	
	Upper Limit	963986		16.19	
	Lower Limit	240996.5		15.19	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG164674-4	453127		15.69	
Laboratory Control S	WG164674-1	448600		15.69	
Method Blank Sample	WG164674-2	423236		15.69	
RE117DI-TB-060915	SI4000-2RA	415734		15.69	
RE117DI-GW-060915	SI4000-1RA	426292		15.69	

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.

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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

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4000-1RA
Client ID: RE117DI-GW-060915
Project: Navy Clean WE15-03-06 NWIRP Beth
SDG: SI4000
Lab File ID: T3836.D

Sample Date: 09-JUN-15
Received Date: 10-JUN-15
Extract Date: 12-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164674

Analysis Date: 12-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	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
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	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		7.6	ug/L	1	1	1.0	0.28	0.50
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene		1.3	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	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
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

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4000-1RA
Client ID: RE117DI-GW-060915
Project: Navy Clean WE15-03-06 NWIRP Beth
SDG: SI4000
Lab File ID: T3836.D

Sample Date: 09-JUN-15
Received Date: 10-JUN-15
Extract Date: 12-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164674

Analysis Date: 12-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	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
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		101.	%					
Toluene-d8		110.	%					
1,2-Dichloroethane-d4		117.	%					
Dibromofluoromethane		111.	%					

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Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3836.D
Report Date: 12-Jun-2015 13:13

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T061215.b\T3836.D
Lab Smp Id: SI4000-1RA Client Smp ID: RE117DI-GW-060915
Inj Date : 12-JUN-2015 12:26 MS Autotune Date: 26-FEB-2015 07:23
Operator : EME Inst ID: gcms-t.i
Smp Info : SI4000-1RA
Misc Info : WG164674,WG164633-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061215.b\T826AN06.m
Meth Date : 12-Jun-2015 13:09 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D
Als bottle: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

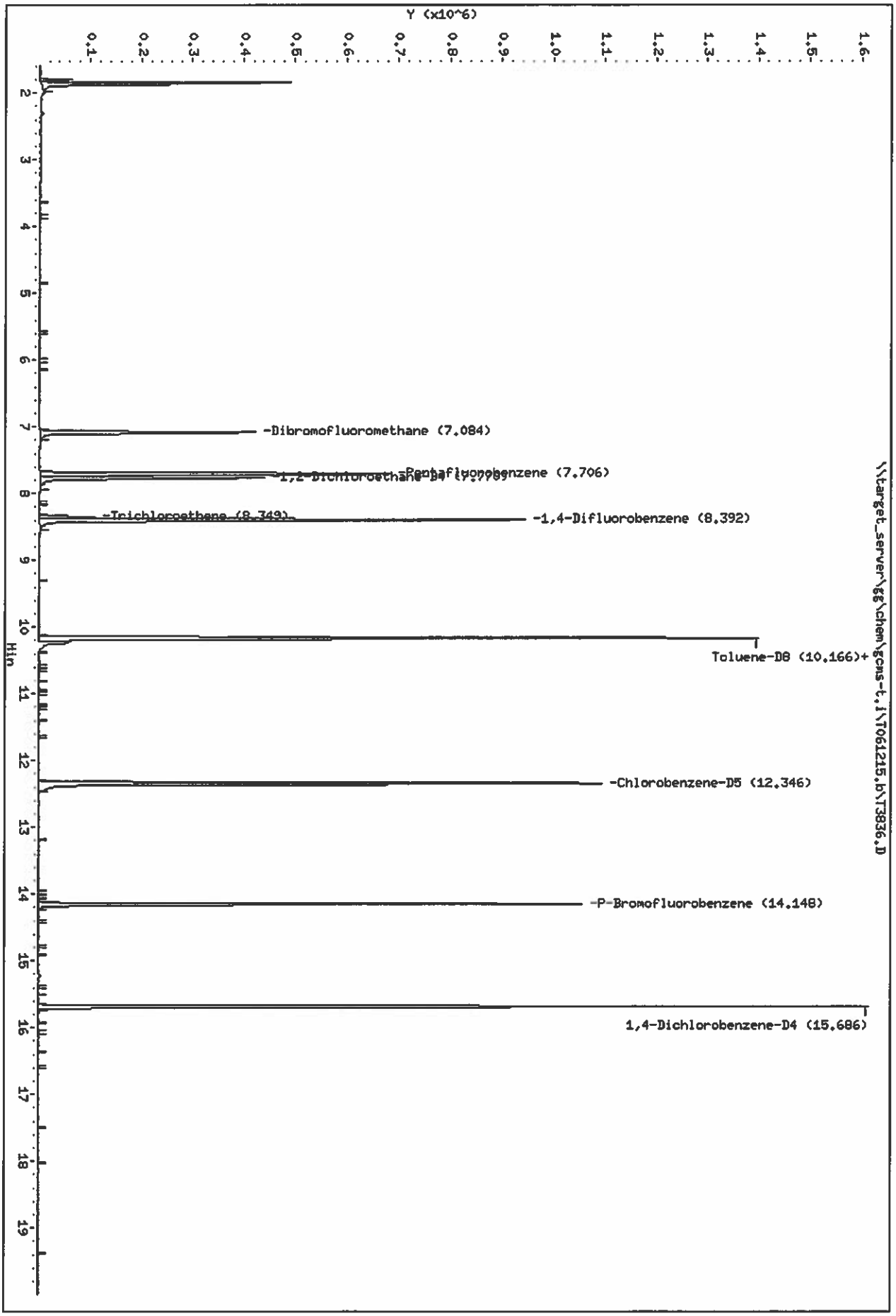
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.083	7.084	(0.919)	272258	55.7290	55.7	
* 42 Pentafluorobenzene	168	7.705	7.706	(1.000)	533240	50.0000		
$ 45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.008)	303145	58.3961	58.4	
48 Trichloroethene	95	8.349	8.349	(0.995)	39443	7.61979	7.6	
* 49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	841122	50.0000		
$ 55 Toluene-D8	98	10.165	10.165	(1.211)	1030565	54.8899	54.9	
57 Toluene	92	10.237	10.237	(1.220)	16861	1.32166	1.3	
* 66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	792352	50.0000		
$ 77 P-Bromofluorobenzene	95	14.148	14.148	(1.686)	375967	50.3266	50.3	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	426292	50.0000		

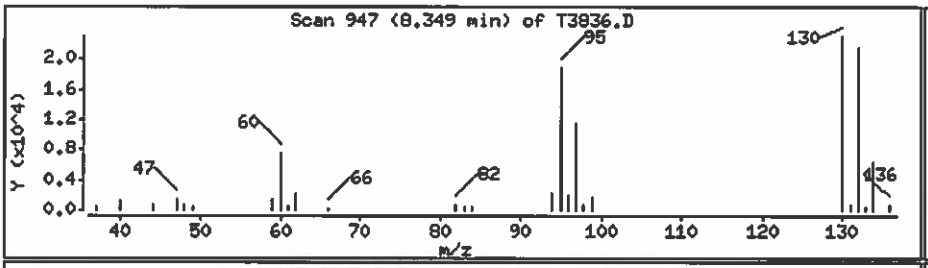
Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3836.D
Date : 12-JUN-2015 12:26
Client ID: RE417DI-GW-060915
Sample Info: SI4000-1RA

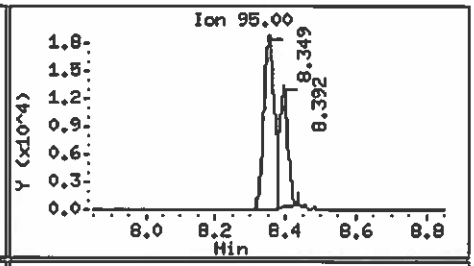
Instrument: gcms-t.i

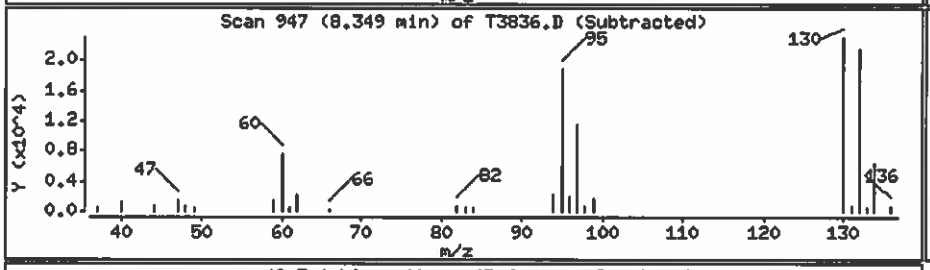


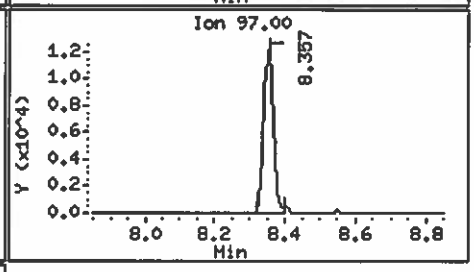
Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3836.D
Date : 12-JUN-2015 12:26
Client ID: RE117DI-GW-060915 Instrument: gcms-t.i
Sample Info: SI4000-1RA

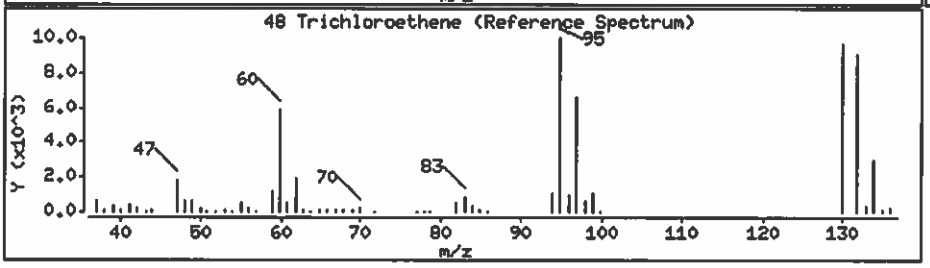
48 Trichloroethene Concentration: 7.6 ug/l



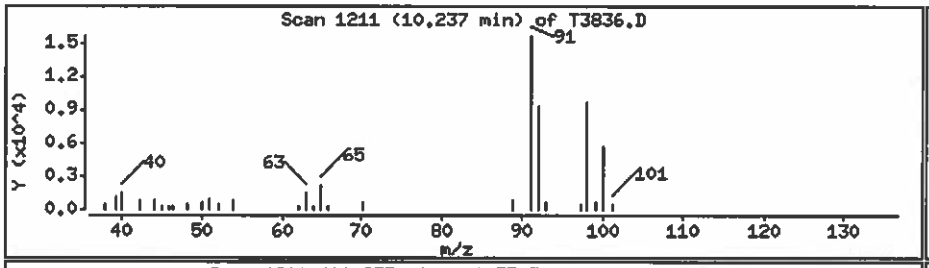


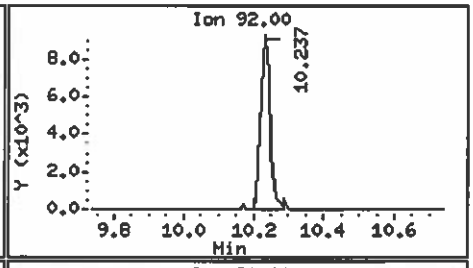


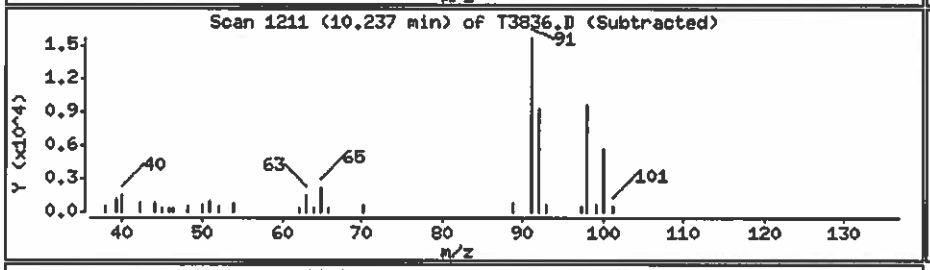


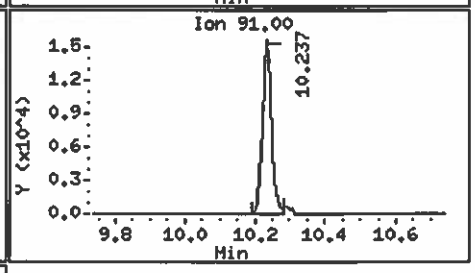


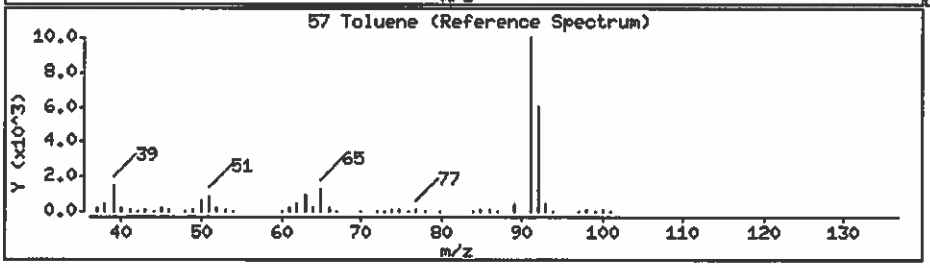
57 Toluene Concentration: 1.3 ug/l











Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4000-2RA
Client ID: RE117DI-TB-060915
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4000
Lab File ID: T3835.D

Sample Date: 09-JUN-15
Received Date: 10-JUN-15
Extract Date: 12-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164674

Analysis Date: 12-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	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
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	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
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	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
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

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4000-2RA
Client ID: RE117DI-TB-060915
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4000
Lab File ID: T3835.D

Sample Date: 09-JUN-15
Received Date: 10-JUN-15
Extract Date: 12-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164674

Analysis Date: 12-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	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
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		104.	%					
Toluene-d8		113.	%					
1,2-Dichloroethane-d4		114.	%					
Dibromofluoromethane		115.	%					

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Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3835.D
Report Date: 12-Jun-2015 13:13

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T061215.b\T3835.D
Lab Smp Id: SI4000-2RA Client Smp ID: RE117DI-TB-060915
Inj Date : 12-JUN-2015 11:51 MS Autotune Date: 26-FEB-2015 07:23
Operator : EME Inst ID: gcms-t.i
Smp Info : SI4000-2RA
Misc Info : WG164674,WG164633-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061215.b\T826AN06.m
Meth Date : 12-Jun-2015 13:09 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: SW8260-S.sub
Target Version: 4.12

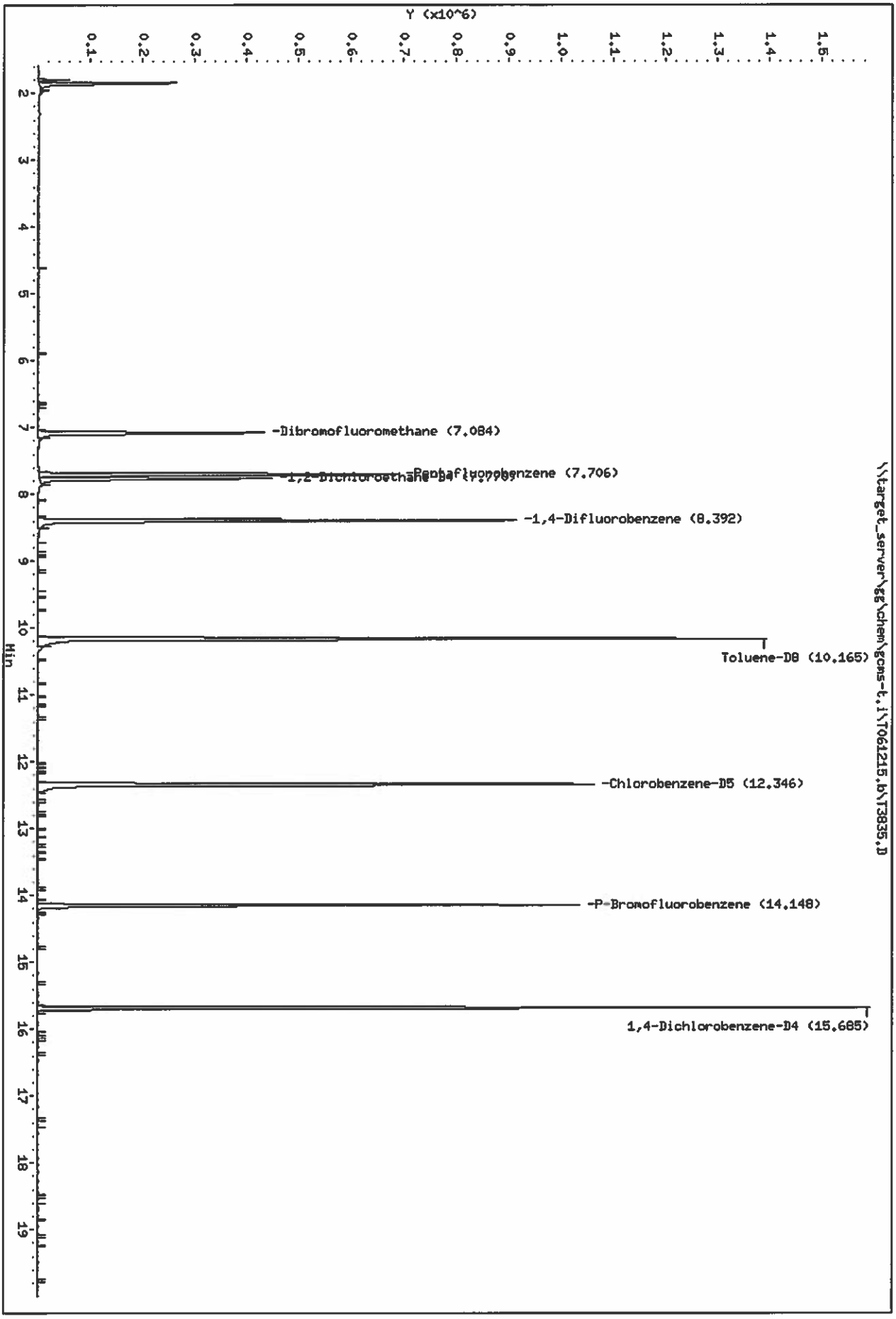
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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	CONCENTRATIONS ON-COLUMN (ug/l)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.083	7.084	(0.919)	280101	57.4611	57.5	
* 42 Pentafluorobenzene	168	7.705	7.706	(1.000)	532064	50.0000		
$ 45 1,2-Dichloroethane-D4	65	7.769	7.770	(1.008)	294433	56.8432	56.8	
* 49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	817894	50.0000		
$ 55 Toluene-D8	98	10.165	10.165	(1.211)	1034811	56.6814	56.7	
* 66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	774573	50.0000		
$ 77 P-Bromofluorobenzene	95	14.148	14.148	(1.686)	376933	51.8889	51.9	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	415734	50.0000		

Data File: \\target_server\gc\chem\gcms-t.i\T061215.b\T3835.D
Date : 12-JUN-2015 11:51
Client ID: RE117DI-TB-060915
Sample Info: SI4000-2RA

Instrument: gcms-t.i



Standards Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI4000
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-T
Lab File IDs : T3815.D T3809.D T3808.D **Column ID:**
T3807.D T3812.D T3811.D **Calibration Date(s):** 11-JUN-15 13:22
11-JUN-15 18:22

	Level 1 1.0000	Level 2 5.0000	Level 3 20.0000	Level 4 50.0000	Level 5 100.0000	Level 6 200.0000	Crv New	b	m1	m2	%RSD	Max %RSD	
Dichlorodifluoromethane	0.32760	0.31595	0.28475	0.31557	0.28465	0.30904	AVG		0.30626		5.79269	15.00000	O
Chloromethane	0.56427	0.45065	0.39945	0.40604	0.43066	0.45048	AVG		0.45026		13.29571	15.00000	O
Vinyl chloride	0.47990	0.44719	0.41027	0.43113	0.44468	0.44367	AVG		0.44281		5.14407	15.00000	O
Bromomethane	0.26461	0.25949	0.23947	0.25620	0.28394	0.31128	AVG		0.26917		9.33426	15.00000	O
Chloroethane	0.39005	0.29812	0.24128	0.25478	0.15695	0.27397	AVG		0.26919		28.3161(	15.00000	W(
Trichlorofluoromethane	0.69105	0.58347	0.51666	0.57496	0.57097	0.60422	AVG		0.59022		9.70995	15.00000	O
1,1-Dichloroethene	0.46507	0.42002	0.41738	0.43412	0.42628	0.45118	AVG		0.43568		4.32478	15.00000	O
Carbon Disulfide	1.28119	1.14175	1.13021	1.15915	1.15908	1.17546	AVG		1.17447		4.64661	15.00000	O
Freon-113	0.37091	0.27879	0.27057	0.29487	0.27285	0.30067	AVG		0.29811		12.6285-	15.00000	O
Methylene Chloride	12649	35045	124385	329167	624003	1268151	LNR	0.00134	0.52926		0.99971	0.99000	O
Acetone	0.16964	0.13770	0.14018	0.17437	0.12897	+++++	AVG		0.15017		13.60368	15.00000	O
trans-1,2-Dichloroethene	0.52114	0.43741	0.45069	0.45108	0.46614	0.47872	AVG		0.46753		6.38993	15.00000	O
Methyl tert-butyl ether	0.90867	1.12301	1.24583	1.26875	1.26988	1.08074	AVG		1.14948		12.3901(	15.00000	O
1,1-Dichloroethane	0.77003	0.76099	0.77540	0.79120	0.77894	0.80422	AVG		0.78013		1.98188	15.00000	O
cis-1,2-Dichloroethene	0.59742	0.57218	0.55736	0.57331	0.57955	0.59361	AVG		0.57891		2.56255	15.00000	O
1,2-Dichloroethylene (total	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
Chloroform	0.82277	0.78890	0.77872	0.76274	0.77911	0.80286	AVG		0.78919		2.67322	15.00000	O
Carbon Tetrachloride	0.32805	0.31517	0.32822	0.33607	0.32851	0.35215	AVG		0.33136		3.68453	15.00000	O
1,1,1-Trichloroethane	0.59185	0.62511	0.62178	0.63148	0.64647	0.67763	AVG		0.63239		4.50326	15.00000	O
2-Butanone	8749	59987	274930	770946	1346097	+++++	LNR	-0.02735	0.22682		0.99738	0.99000	O
Benzene	1.22884	1.18215	1.24089	1.21244	1.18817	1.14440	AVG		1.19948		2.93712	15.00000	O
Cyclohexane	0.58224	0.62244	0.64002	0.67088	0.63785	0.68229	AVG		0.63928		5.59143	15.00000	O
1,2-Dichloroethane	0.42730	0.38131	0.37373	0.35908	0.35667	0.35370	AVG		0.37530		7.36474	15.00000	O
Trichloroethene	0.28577	0.27104	0.30132	0.33997	0.32154	0.32661	AVG		0.30771		8.54393	15.00000	O
1,2-Dichloropropane	0.27881	0.30146	0.29860	0.30756	0.29852	0.31233	AVG		0.29955		3.84421	15.00000	O
Bromodichloromethane	0.35971	0.39141	0.37419	0.37961	0.37580	0.38723	AVG		0.37799		2.94912	15.00000	O
cis-1,3-dichloropropene	0.35816	0.43587	0.46155	0.48556	0.48165	0.48914	AVG		0.45199		11.08132	15.00000	O
Toluene	0.76261	0.76735	0.77367	0.76261	0.75527	0.72864	AVG		0.75836		2.07986	15.00000	O
4-methyl-2-pentanone	0.23970	0.28664	0.29247	0.28269	0.26443	+++++	AVG		0.27319		7.85374	15.00000	O
Tetrachloroethene	0.34857	0.29086	0.28074	0.29379	0.29658	0.30427	AVG		0.30247		7.88734	15.00000	O
trans-1,3-Dichloropropene	0.28433	0.35998	0.39639	0.40212	0.41448	0.39697	AVG		0.37571		12.86315	15.00000	O
1,1,2-Trichloroethane	0.24265	0.25614	0.26212	0.25035	0.25401	0.22705	AVG		0.24872		4.99506	15.00000	O
Dibromochloromethane	0.29991	0.32999	0.34343	0.36134	0.37932	0.35831	AVG		0.34538		8.06680	15.00000	O
1,2-Dibromoethane	0.27287	0.31912	0.31424	0.32522	0.31817	0.27951	AVG		0.30485		7.40602	15.00000	O
2-Hexanone	0.16763	0.22192	0.23163	0.23365	0.22305	+++++	AVG		0.21558		12.65898	15.00000	O
Chlorobenzene	1.05689	0.98044	0.97538	0.98524	0.96990	0.93571	AVG		0.98393		4.04813	15.00000	O
Ethylbenzene	0.56966	0.52667	0.51943	0.53101	0.53308	0.52778	AVG		0.53461		3.32917	15.00000	O

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI4000
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-T
Lab File IDs : T3815.D T3809.D T3808.D **Column ID:**
T3807.D T3812.D T3811.D **Calibration Date(s):** 11-JUN-15 13:22
11-JUN-15 18:22

Xylenes (total)	+++++	+++++	+++++	+++++	+++++	+++++	AVG		0.000e+00		0.000e+(	15.00000	M (
m+p-Xylenes	0.70351	0.64348	0.63276	0.63827	0.62584	0.58492	AVG		0.63813		5.99362	15.00000	O
o-Xylene	0.58257	0.58496	0.61252	0.61803	0.62864	0.62072	AVG		0.60791		3.19498	15.00000	O
Styrene	0.97050	1.05499	1.04564	1.06491	1.06054	1.00139	AVG		1.03299		3.70542	15.00000	O
Bromoform	0.24529	0.23215	0.25522	0.27550	0.28365	0.24137	AVG		0.25553		7.90757	15.00000	O
Isopropylbenzene	2.82782	2.69106	2.69667	2.69189	2.62671	2.37608	AVG		2.65170		5.66420	15.00000	O
1,1,2,2-Tetrachloroethane	0.85441	0.93048	0.92716	0.89399	0.89354	0.65606	AVG		0.85927		12.02455	15.00000	O
1,3-Dichlorobenzene	1.64305	1.49673	1.46589	1.46805	1.44953	1.38429	AVG		1.48459		5.80778	15.00000	O
1,4-Dichlorobenzene	1.75858	1.55570	1.51226	1.49803	1.48012	1.41183	AVG		1.53608		7.72894	15.00000	O
1,2-Dichlorobenzene	1.57070	1.49565	1.41258	1.42034	1.42106	1.33352	AVG		1.44231		5.63120	15.00000	O
1,2-Dibromo-3-Chloropropane	0.17446	0.18030	0.17464	0.17161	0.17153	+++++	AVG		0.17451		2.04367	15.00000	O
1,2,4-Trichlorobenzene	1.33126	1.10593	1.10892	1.08315	1.09951	1.00676	AVG		1.12259		9.71857	15.00000	O
Methyl Acetate	0.34242	0.43654	0.42939	0.42772	0.43038	+++++	AVG		0.41329		9.61923	15.00000	O
Methylcyclohexane	0.81307	0.70698	0.72391	0.82591	0.78354	0.80295	AVG		0.77606		6.34559	15.00000	O
Dibromofluoromethane	0.43758	0.48476	0.39616	0.47358	0.48092	0.47552	AVG		0.45809		7.58254	15.00000	
1,2-Dichloroethane-D4	0.47522	0.54642	0.42589	0.50702	0.49936	0.46664	AVG		0.48676		8.40648	15.00000	
Toluene-D8	1.29600	1.17321	0.93311	1.13915	1.14354	1.01144	AVG		1.11608		11.4289(	15.00000	
P-Bromofluorobenzene	0.54011	0.48154	0.36297	0.43198	0.43508	0.41281	AVG		0.44408		13.6638(	15.00000	

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

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Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3817A.D
Report Date: 12-Jun-2015 08:25

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG164633-7
Level: LOW
Data Type: MS DATA
SpikeList File: IND_CHECK4.1.spk
Sublist File: SW8260-S.sub
Method File: \\target_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m
Misc Info: WG164633,WG164633-4

Client SDG: WG164633
Fraction: VOA
Client Smp ID: Independent Source
Operator: EME
SampleType: INDSOURCE
Quant Type: ISTD

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	1 Dichlorodifluorome	50.0	51.5	103.03	80-120
	2 Chloromethane	50.0	52.3	104.57	80-120
	3 Vinyl chloride	50.0	49.0	98.02	80-120
	4 Bromomethane	50.0	50.7	101.33	80-120
	5 Chloroethane	50.0	46.8	93.69	80-120
	6 Trichlorofluoromet	50.0	47.6	95.29	80-120
	7 Diethyl Ether	50.0	48.8	97.67	80-120
	8 Tertiary-butyl alc	250	261	104.57	80-120
	9 1,1-Dichloroethene	50.0	47.2	94.36	80-120
	10 Carbon Disulfide	50.0	58.2	116.48	80-120
	11 Freon-113	50.0	42.3	84.62	80-120
	12 Iodomethane	50.0	43.8	87.70	80-120
	13 Acrolein	250	273	109.13	80-120
	14 Methylene Chloride	50.0	47.0	94.12	80-120
	15 Acetone	50.0	46.7	93.44	80-120
	16 Isobutyl Alcohol	1000	938	93.79	80-120
	17 trans-1,2-Dichloro	50.0	48.5	97.00	80-120
	18 Allyl Chloride	50.0	46.9	93.77	80-120
	19 Methyl tert-butyl	100	110	109.72	80-120
	20 Acetonitrile	500	483	96.60	80-120
	21 Di-isopropyl ether	50.0	52.3	104.68	80-120
	22 Chloroprene	50.0	49.0	98.09	80-120
	23 Propionitrile	500	558	111.57	80-120
	24 Methacrylonitrile	500	548	109.67	80-120
	25 1,1-Dichloroethane	50.0	49.4	98.91	80-120
	26 Acrylonitrile	250	276	110.55	80-120
	27 Ethyl tertiary-but	50.0	52.3	104.57	80-120
	28 Vinyl Acetate	50.0	44.0	87.92	80-120
	29 cis-1,2-Dichloroet	50.0	43.6	87.32	80-120
M	30 1,2-Dichloroethyle	100	92.2	92.16	80-120
	31 Methyl Methacrylat	50.0	57.0	114.03	80-120
	32 2,2-Dichloropropan	50.0	41.3	82.61	80-120
	33 Bromochloromethane	50.0	45.1	90.24	80-120
	34 Chloroform	50.0	46.3	92.66	80-120
	35 Carbon Tetrachlori	50.0	47.7	95.42	80-120
	36 Tetrahydrofuran	50.0	53.7	107.41	80-120
	38 1,1,1-Trichloroeth	50.0	46.9	93.88	80-120
	39 1,1-Dichloropropen	50.0	48.8	97.71	80-120
	40 2-Butanone	50.0	47.8	95.65	80-120
	41 Benzene	50.0	49.7	99.43	80-120

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3817A.D
Report Date: 12-Jun-2015 08:25

	SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
	43 Cyclohexane	50.0	46.2	92.36	80-120
	44 Ethyl Methacrylate	50.0	55.2	110.50	80-120
	46 Tertiary-amyl meth	50.0	51.7	103.34	80-120
	47 1,2-Dichloroethane	50.0	47.7	95.32	80-120
	48 Trichloroethene	50.0	47.9	95.83	80-120
	50 Dibromomethane	50.0	47.9	95.76	80-120
	51 1,2-Dichloropropan	50.0	48.7	97.50	80-120
	52 Bromodichlorometha	50.0	50.4	100.76	80-120
	53 cis-1,3-dichloropr	50.0	51.8	103.64	80-120
	54 1,4-Dioxane	1000	528	52.84*	80-120
	56 2-Chloroethylvinyl	50.0	85.8	171.71*	80-120
	57 Toluene	50.0	48.7	97.46	80-120
	58 4-methyl-2-pentano	50.0	54.5	108.94	80-120
	59 Tetrachloroethene	50.0	49.4	98.83	80-120
	60 trans-1,3-Dichloro	50.0	55.0	109.95	80-120
	61 1,1,2-Trichloroeth	50.0	50.2	100.49	80-120
	62 Dibromochlorometha	50.0	52.3	104.65	80-120
	63 1,3-Dichloropropan	50.0	51.1	102.13	80-120
	64 1,2-Dibromoethane	50.0	51.6	103.10	80-120
	65 2-Hexanone	50.0	55.4	110.73	80-120
	67 Chlorobenzene	50.0	49.0	97.97	80-120
	68 1-Chlorohexane	50.0	42.9	85.86	80-120
	69 Ethylbenzene	50.0	47.9	95.76	80-120
	70 1,1,1,2-Tetrachlor	50.0	49.7	99.36	80-120
M	71 Xylenes (total)	150	145	96.60	80-120
	72 m+p-Xylenes	100	95.0	94.97	80-120
	73 o-Xylene	50.0	49.9	99.87	80-120
	74 Styrene	50.0	50.3	100.60	80-120
	75 Bromoform	50.0	54.7	109.41	80-120
	76 Isopropylbenzene	50.0	51.0	101.94	80-120
	78 cis-1,4-Dichloro-2	50.0	53.5	107.06	80-120
	79 trans-1,4-Dichloro	50.0	55.5	111.03	80-120
	80 Bromobenzene	50.0	49.2	98.44	80-120
	81 N-Propylbenzene	50.0	51.5	103.03	80-120
	82 1,1,2,2-Tetrachlor	50.0	53.4	106.80	80-120
	83 1,3,5-Trimethylben	50.0	49.0	98.03	80-120
	84 2-Chlorotoluene	50.0	50.9	101.86	80-120
	85 1,2,3-Trichloropro	50.0	54.4	108.74	80-120
	86 4-Chlorotoluene	50.0	48.8	97.54	80-120
	87 tert-Butylbenzene	50.0	50.3	100.69	80-120
	88 Pentachloroethane	50.0	46.5	92.96	80-120
	89 1,2,4-Trimethylben	50.0	51.3	102.64	80-120
	90 P-Isopropyltoluene	50.0	50.3	100.66	80-120
	91 1,3-Dichlorobenzen	50.0	48.6	97.20	80-120
	93 1,4-Dichlorobenzen	50.0	48.5	96.99	80-120
	94 N-Butylbenzene	50.0	47.9	95.87	80-120
	95 sec-Butylbenzene	50.0	50.5	100.98	80-120
	96 1,2-Dichlorobenzen	50.0	49.0	98.02	80-120
	97 1,2-Dibromo-3-Chlo	50.0	54.7	109.39	80-120
	98 1,3,5-Trichloroben	50.0	45.7	91.39	80-120
	99 Hexachlorobutadien	50.0	45.4	90.72	80-120
	100 1,2,4-Trichloroben	50.0	48.4	96.74	80-120
	101 1,2,3-Trimethylben	50.0	49.5	99.00	80-120
	102 Naphthalene	50.0	57.0	113.97	80-120

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3817A.D
Report Date: 12-Jun-2015 08:25

SPIKE COMPOUND	CONC ADDED ug/l	CONC RECOVERED ug/l	% RECOVERED	LIMITS
103 1,2,3-Trichloroben	50.0	46.3	92.57	80-120
104 Methyl Acetate	50.0	53.8	107.69	80-120
105 Methylcyclohexane	50.0	45.0	89.90	80-120
M 106 Total Alkylbenzene	350	351	100.27	80-120

SURROGATE COMPOUND	AMOUNT ADDED ug/l	AMOUNT RECOVERED ug/l	% RECOVERED	LIMITS
$ 37 Dibromofluorometha	50.0	50.6	101.20	68-128
$ 45 1,2-Dichloroethane	50.0	50.5	101.00	67-135
$ 55 Toluene-D8	50.0	52.6	105.21	65-128
$ 77 P-Bromofluorobenze	50.0	48.1	96.20	56-133

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3807.D
Report Date: 12-Jun-2015 08:08

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T061115.b\T3807.D
Lab Smp Id: WG164633-4 Client Smp ID: Initial Calibration
Inj Date : 11-JUN-2015 13:22
Operator : EME Inst ID: gcms-t.i
Smp Info : WG164633-4
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 13:22 Cal File: T3807.D
Als bottle: 2 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	2.042	2.043	(0.265)	198120	50.0000	51.5	
2 Chloromethane	50	2.278	2.279	(0.296)	254918	50.0000	45.1	
3 Vinyl chloride	62	2.378	2.379	(0.309)	270671	50.0000	48.7	
4 Bromomethane	94	2.779	2.779	(0.361)	160850	50.0000	47.6	
5 Chloroethane	64	2.936	2.937	(0.381)	159954	50.0000	47.3	
6 Trichlorofluoromethane	101	3.115	3.115	(0.404)	360970	50.0000	48.7	
7 Diethyl Ether	59	3.537	3.537	(0.459)	242115	50.0000	51.0	
8 Tertiary-butyl alcohol	59	6.089	6.090	(0.790)	774345	250.000	273	
9 1,1-Dichloroethene	96	3.801	3.802	(0.493)	272549	50.0000	49.8	
10 Carbon Disulfide	76	3.844	3.845	(0.499)	727735	50.0000	49.3	
11 Freon-113	151	3.866	3.866	(0.502)	185125	50.0000	49.4	
12 Iodomethane	142	4.009	4.009	(0.520)	193360	50.0000	43.9	
13 Acrolein	56	4.295	4.295	(0.557)	346036	250.000	278	
14 Methylene Chloride	84	4.652	4.653	(0.604)	329167	50.0000	49.6	
15 Acetone	43	4.716	4.717	(0.612)	547368	250.000	290	
16 Isobutyl Alcohol	43	7.898	7.899	(1.025)	203019	1000.00	1220	
17 trans-1,2-Dichloroethene	96	4.888	4.889	(0.634)	283194	50.0000	48.2	
18 Allyl Chloride	41	4.495	4.495	(0.583)	365317	50.0000	50.2	
19 Methyl tert-butyl ether	73	5.045	5.046	(0.655)	1593087	100.000	110	
20 Acetonitrile	39	5.374	5.375	(0.698)	86677	500.000	589	
21 Di-isopropyl ether	45	5.589	5.589	(0.725)	803135	50.0000	55.0	
22 Chloroprene	53	5.710	5.711	(0.741)	384215	50.0000	51.1	
23 Propionitrile	54	7.619	7.620	(0.989)	549478	500.000	596	
24 Methacrylonitrile	41	7.655	7.656	(0.994)	1917662	500.000	540	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3807.D
Report Date: 12-Jun-2015 08:08

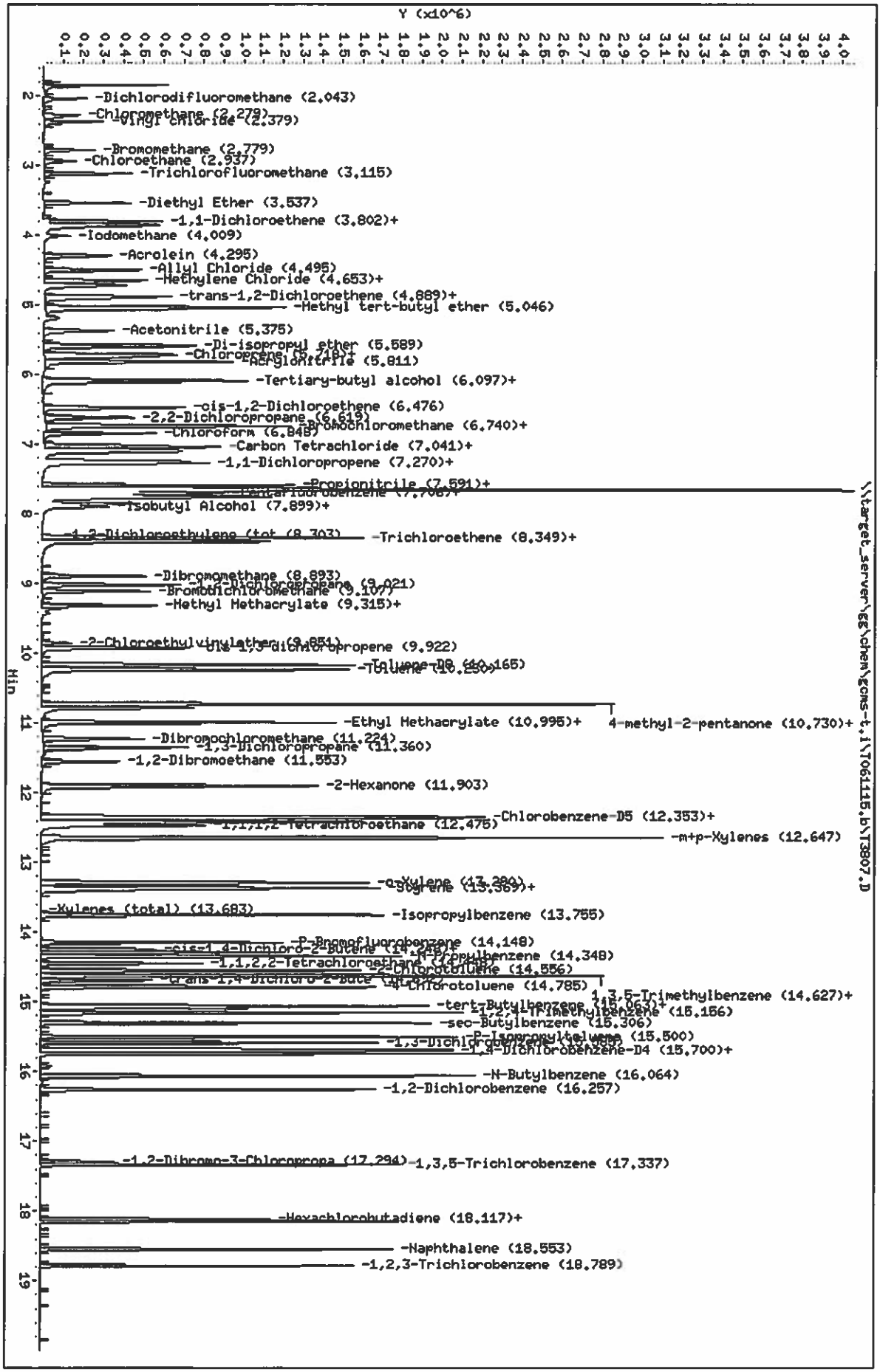
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.746	5.747	(0.746)	496733	50.0000	50.7	
	26 Acrylonitrile	52	5.810	5.811	(0.754)	630464	250.000	276	
	27 Ethyl tertiary-butyl ether	59	6.089	6.090	(0.790)	774345	50.0000	54.6	
	28 Vinyl Acetate	43	6.104	6.104	(0.727)	641268	50.0000	45.3	
	29 cis-1,2-Dichloroethene	96	6.475	6.476	(0.840)	359936	50.0000	49.5	
	31 Methyl Methacrylate	41	9.314	9.315	(1.110)	261772	50.0000	56.5	
	32 2,2-Dichloropropane	77	6.618	6.619	(0.859)	343585	50.0000	53.8	
	33 Bromochloromethane	128	6.740	6.740	(0.875)	160184	50.0000	49.9	
	34 Chloroform	83	6.847	6.848	(0.889)	478863	50.0000	48.3	
	35 Carbon Tetrachloride	117	7.019	7.019	(0.836)	331387	50.0000	50.7	
	36 Tetrahydrofuran	42	7.040	7.041	(0.914)	489894	250.000	267	
$	37 Dibromofluoromethane	113	7.083	7.084	(0.919)	297326	50.0000	51.7	
	38 1,1,1-Trichloroethane	97	7.105	7.105	(0.922)	396453	50.0000	49.9	
	39 1,1-Dichloropropene	75	7.269	7.270	(0.866)	396951	50.0000	50.4	
	40 2-Butanone	43	7.241	7.241	(0.940)	770946	250.000	269	
	41 Benzene	78	7.591	7.591	(0.905)	1195559	50.0000	50.5	
*	42 Pentafluorobenzene	168	7.705	7.706	(1.000)	627820	50.0000		
	43 Cyclohexane	56	6.740	6.740	(0.875)	421193	50.0000	52.5	
	44 Ethyl Methacrylate	69	10.994	10.995	(1.310)	426053	50.0000	53.3	
$	45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.008)	318317	50.0000	52.1	
	46 Tertiary-amyl methyl ether	73	7.748	7.749	(1.006)	735354	50.0000	54.3	
	47 1,2-Dichloroethane	62	7.855	7.856	(0.936)	354081	50.0000	47.8	
	48 Trichloroethene	95	8.349	8.349	(0.995)	335235	50.0000	55.2	
*	49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	986077	50.0000		
	50 Dibromomethane	93	8.885	8.886	(1.059)	194749	50.0000	49.6	
	51 1,2-Dichloropropane	63	9.021	9.021	(1.075)	303275	50.0000	51.3	
	52 Bromodichloromethane	83	9.107	9.107	(1.085)	374326	50.0000	50.2	
	53 cis-1,3-dichloropropene	75	9.922	9.922	(1.182)	478795	50.0000	53.7	
	54 1,4-Dioxane	88	9.357	9.357	(1.115)	69530	1000.00	656	
$	55 Toluene-D8	98	10.165	10.165	(1.211)	1123285	50.0000	51.0	
	56 2-Chloroethylvinylether	63	9.850	9.851	(1.174)	68377	50.0000	66.0	
	57 Toluene	92	10.236	10.237	(1.220)	751996	50.0000	50.3	
	58 4-methyl-2-pentanone	43	10.730	10.730	(1.279)	1393768	250.000	259	
	59 Tetrachloroethene	164	10.737	10.737	(0.870)	253471	50.0000	48.6	
	60 trans-1,3-Dichloropropene	75	10.780	10.780	(1.285)	396521	50.0000	53.5	
	61 1,1,2-Trichloroethane	83	10.987	10.988	(1.309)	246864	50.0000	50.3	
	62 Dibromochloromethane	129	11.223	11.224	(0.909)	311747	50.0000	52.3	
	63 1,3-Dichloropropane	76	11.359	11.360	(0.920)	515233	50.0000	52.4	
	64 1,2-Dibromoethane	107	11.552	11.553	(1.377)	320690	50.0000	53.3	
	65 2-Hexanone	43	11.902	11.903	(0.964)	1007900	250.000	271	
*	66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	862754	50.0000		
	67 Chlorobenzene	112	12.367	12.368	(1.002)	850023	50.0000	50.1	
	68 1-Chlorohexane	91	12.353	12.353	(1.001)	400440	50.0000	47.8	
	69 Ethylbenzene	106	12.417	12.418	(1.006)	458130	50.0000	49.7	
	70 1,1,1,2-Tetrachloroethane	131	12.474	12.475	(1.010)	286874	50.0000	51.8	
	72 m+p-Xylenes	106	12.646	12.647	(1.024)	1101344	100.000	100	
	73 o-Xylene	106	13.290	13.290	(1.076)	533211	50.0000	50.8	
	74 Styrene	104	13.368	13.369	(1.083)	918756	50.0000	51.5	
	75 Bromoform	173	13.397	13.397	(1.085)	237687	50.0000	53.9	
	76 Isopropylbenzene	105	13.754	13.755	(0.877)	1297473	50.0000	50.8	
$	77 P-Bromofluorobenzene	95	14.148	14.148	(1.686)	425963	50.0000	48.6	
	78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248	(0.908)	121789	50.0000	56.9	
	79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692	(0.937)	101081	50.0000	56.4	
	80 Bromobenzene	156	14.291	14.291	(0.911)	376851	50.0000	49.3	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3807.D
Report Date: 12-Jun-2015 08:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
81 N-Propylbenzene	91	14.348	14.348	(0.915)	1534653	50.0000	51.2	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448	(0.921)	430897	50.0000	52.0	
83 1,3,5-Trimethylbenzene	105	14.627	14.627	(0.933)	1167086	50.0000	51.5	
84 2-Chlorotoluene	91	14.555	14.556	(0.928)	930378	50.0000	50.6	
85 1,2,3-Trichloropropane	75	14.627	14.627	(0.933)	344071	50.0000	51.7	
86 4-Chlorotoluene	91	14.784	14.785	(0.943)	996182	50.0000	49.5	
87 tert-Butylbenzene	119	15.063	15.063	(0.960)	1154091	50.0000	51.2	
88 Pentachloroethane	117	15.084	15.085	(0.962)	245992	50.0000	50.0	
89 1,2,4-Trimethylbenzene	105	15.156	15.156	(0.966)	1177152	50.0000	51.7	
90 P-Isopropyltoluene	119	15.499	15.500	(0.988)	1272355	50.0000	51.3	
91 1,3-Dichlorobenzene	146	15.585	15.585	(0.994)	707590	50.0000	49.4	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	481993	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707	(1.001)	722038	50.0000	48.8	
94 N-Butylbenzene	91	16.064	16.064	(1.024)	1151281	50.0000	50.5	
95 sec-Butylbenzene	105	15.306	15.306	(0.976)	1423341	50.0000	51.0	
96 1,2-Dichlorobenzene	146	16.257	16.257	(1.036)	684593	50.0000	49.2	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294	(1.103)	82714	50.0000	49.2	
98 1,3,5-Trichlorobenzene	180	17.337	17.337	(1.105)	552714	50.0000	47.4	
99 Hexachlorobutadiene	225	18.116	18.117	(1.155)	216895	50.0000	47.6	
100 1,2,4-Trichlorobenzene	180	18.145	18.145	(1.157)	522071	50.0000	48.2	
101 1,2,3-Trimethylbenzene	105	15.742	15.743	(1.004)	1228424	50.0000	50.5	
102 Naphthalene	128	18.552	18.553	(1.183)	1287624	50.0000	48.9	
103 1,2,3-Trichlorobenzene	180	18.788	18.789	(1.198)	489713	50.0000	45.6	
104 Methyl Acetate	43	4.910	4.910	(0.637)	268531	50.0000	51.7	
105 Methylcyclohexane	83	8.342	8.342	(1.083)	518524	50.0000	53.2	

Data File: \\target_server\gc\chem\gcms-t.i\T061115.b\T3807.D
Date : 11-JUN-2015 13:22
Client ID: Initial Calibration
Sample Info: MG164633-4
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-t.i
Operator: EHE
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3808.D
Report Date: 12-Jun-2015 08:08

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T061115.b\T3808.D
Lab Smp Id: WG164633-3 Client Smp ID: Initial Calibration
Inj Date : 11-JUN-2015 13:57
Operator : EME Inst ID: gcms-t.i
Smp Info : WG164633-3
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 13:57 Cal File: T3808.D
Als bottle: 3 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	2.042	2.043	(0.265)	68515	20.0000	18.6	
2 Chloromethane	50	2.285	2.279	(0.297)	96115	20.0000	17.7	
3 Vinyl chloride	62	2.378	2.379	(0.309)	98718	20.0000	18.5	
4 Bromomethane	94	2.779	2.779	(0.361)	57620	20.0000	17.8	
5 Chloroethane	64	2.936	2.937	(0.381)	58056	20.0000	17.9	
6 Trichlorofluoromethane	101	3.115	3.115	(0.404)	124318	20.0000	17.5	
7 Diethyl Ether	59	3.537	3.537	(0.459)	93849	20.0000	20.6	
8 Tertiary-butyl alcohol	59	6.089	6.090	(0.790)	272094	100.000	100	
9 1,1-Dichloroethene	96	3.801	3.802	(0.493)	100430	20.0000	19.2	
10 Carbon Disulfide	76	3.844	3.845	(0.499)	271950	20.0000	19.2	
11 Freon-113	151	3.873	3.866	(0.503)	65103	20.0000	18.2	
12 Iodomethane	142	4.009	4.009	(0.520)	65829	20.0000	18.5	
13 Acrolein	56	4.295	4.295	(0.557)	130498	100.000	110	
14 Methylene Chloride	84	4.652	4.653	(0.604)	124385	20.0000	19.6	
15 Acetone	43	4.724	4.717	(0.613)	168650	100.000	93.3	
16 Isobutyl Alcohol	43	7.898	7.899	(1.025)	97431	400.000	609	
17 trans-1,2-Dichloroethene	96	4.881	4.889	(0.633)	108443	20.0000	19.3	
18 Allyl Chloride	41	4.502	4.495	(0.584)	137812	20.0000	19.8	
19 Methyl tert-butyl ether	73	5.045	5.046	(0.655)	599537	40.0000	43.4	
20 Acetonitrile	39	5.374	5.375	(0.698)	33371	200.000	237	
21 Di-isopropyl ether	45	5.589	5.589	(0.725)	287885	20.0000	20.6	
22 Chloroprene	53	5.710	5.711	(0.741)	140379	20.0000	19.5	
23 Propionitrile	54	7.620	7.620	(0.989)	203394	200.000	230	
24 Methacrylonitrile	41	7.648	7.656	(0.993)	764156	200.000	225	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3808.D
Report Date: 12-Jun-2015 08:08

	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	5.746	5.747	(0.746)	186574	20.0000	19.9	
	26 Acrylonitrile	52	5.810	5.811	(0.754)	241776	100.000	110	
	27 Ethyl tertiary-butyl ether	59	6.089	6.090	(0.790)	272094	20.0000	20.0	
	28 Vinyl Acetate	43	6.104	6.104	(0.727)	223816	20.0000	16.4	
	29 cis-1,2-Dichloroethene	96	6.475	6.476	(0.840)	134111	20.0000	19.2	
	31 Methyl Methacrylate	41	9.314	9.315	(1.110)	90039	20.0000	20.8	
	32 2,2-Dichloropropane	77	6.618	6.619	(0.859)	119845	20.0000	19.6	
	33 Bromochloromethane	128	6.740	6.740	(0.875)	61809	20.0000	20.1	
	34 Chloroform	83	6.847	6.848	(0.889)	187375	20.0000	19.7	
	35 Carbon Tetrachloride	117	7.019	7.019	(0.836)	120996	20.0000	19.8	
	36 Tetrahydrofuran	42	7.047	7.041	(0.915)	188456	100.000	107	
$	37 Dibromofluoromethane	113	7.083	7.084	(0.919)	95323	20.0000	17.3	
	38 1,1,1-Trichloroethane	97	7.105	7.105	(0.922)	149611	20.0000	19.7	
	39 1,1-Dichloropropene	75	7.269	7.270	(0.866)	150537	20.0000	20.5	
	40 2-Butanone	43	7.241	7.241	(0.940)	274930	100.000	99.4	
	41 Benzene	78	7.591	7.591	(0.905)	457445	20.0000	20.7	
*	42 Pentafluorobenzene	168	7.705	7.706	(1.000)	601545	50.0000		
	43 Cyclohexane	56	6.740	6.740	(0.875)	154000	20.0000	20.0	
	44 Ethyl Methacrylate	69	10.994	10.995	(1.310)	159820	20.0000	21.4	
$	45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.008)	102476	20.0000	17.5	
	46 Tertiary-amyl methyl ether	73	7.755	7.749	(1.006)	261566	20.0000	20.2	
	47 1,2-Dichloroethane	62	7.855	7.856	(0.936)	137773	20.0000	19.9	
	48 Trichloroethene	95	8.349	8.349	(0.995)	111081	20.0000	19.6	
*	49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	921609	50.0000		
	50 Dibromomethane	93	8.892	8.886	(1.060)	76151	20.0000	20.7	
	51 1,2-Dichloropropane	63	9.021	9.021	(1.075)	110078	20.0000	19.9	
	52 Bromodichloromethane	83	9.107	9.107	(1.085)	137941	20.0000	19.8	
	53 cis-1,3-dichloropropene	75	9.922	9.922	(1.182)	170146	20.0000	20.4	
	54 1,4-Dioxane	88	9.364	9.357	(1.116)	59991	400.000	605	
$	55 Toluene-D8	98	10.165	10.165	(1.211)	343984	20.0000	16.7	
	56 2-Chloroethylvinylether	63	9.850	9.851	(1.174)	24405	20.0000	25.2	
	57 Toluene	92	10.236	10.237	(1.220)	285207	20.0000	20.4	
	58 4-methyl-2-pentanone	43	10.730	10.730	(1.279)	539095	100.000	107	
	59 Tetrachloroethene	164	10.737	10.737	(0.870)	93812	20.0000	18.6	
	60 trans-1,3-Dichloropropene	75	10.780	10.780	(1.285)	146128	20.0000	21.1	
	61 1,1,2-Trichloroethane	83	10.987	10.988	(1.309)	96629	20.0000	21.1	
	62 Dibromochloromethane	129	11.223	11.224	(0.909)	114760	20.0000	19.9	
	63 1,3-Dichloropropane	76	11.359	11.360	(0.920)	194587	20.0000	20.4	
	64 1,2-Dibromoethane	107	11.552	11.553	(1.377)	115841	20.0000	20.6	
	65 2-Hexanone	43	11.910	11.903	(0.965)	387002	100.000	107	
*	66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	835392	50.0000		
	67 Chlorobenzene	112	12.374	12.368	(1.002)	325930	20.0000	19.8	
	68 1-Chlorohexane	91	12.353	12.353	(1.001)	149594	20.0000	18.4	
	69 Ethylbenzene	106	12.417	12.418	(1.006)	173572	20.0000	19.4	
	70 1,1,1,2-Tetrachloroethane	131	12.475	12.475	(1.010)	102655	20.0000	19.2	
	72 m+p-Xylenes	106	12.646	12.647	(1.024)	422883	40.0000	39.7	
	73 o-Xylene	106	13.290	13.290	(1.076)	204678	20.0000	20.2	
	74 Styrene	104	13.368	13.369	(1.083)	349408	20.0000	20.2	
	75 Bromoform	173	13.397	13.397	(1.085)	85285	20.0000	20.0	
	76 Isopropylbenzene	105	13.754	13.755	(0.877)	489190	20.0000	20.3	
$	77 P-Bromofluorobenzene	95	14.148	14.148	(1.686)	133806	20.0000	16.3	
	78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248	(0.908)	42561	20.0000	21.1	
	79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692	(0.937)	36676	20.0000	21.7	
	80 Bromobenzene	156	14.291	14.291	(0.911)	142947	20.0000	19.9	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3808.D
Report Date: 12-Jun-2015 08:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
81 N-Propylbenzene	91	14.348	14.348	(0.915)	588549	20.0000	20.9	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448	(0.921)	168192	20.0000	21.6	
83 1,3,5-Trimethylbenzene	105	14.627	14.627	(0.933)	439183	20.0000	20.6	
84 2-Chlorotoluene	91	14.555	14.556	(0.928)	356075	20.0000	20.6	
85 1,2,3-Trichloropropane	75	14.627	14.627	(0.933)	131872	20.0000	21.1	
86 4-Chlorotoluene	91	14.784	14.785	(0.943)	383313	20.0000	20.2	
87 tert-Butylbenzene	119	15.063	15.063	(0.960)	433345	20.0000	20.4	
88 Pentachloroethane	117	15.084	15.085	(0.962)	91195	20.0000	19.7	
89 1,2,4-Trimethylbenzene	105	15.156	15.156	(0.966)	436777	20.0000	20.4	
90 P-Isopropyltoluene	119	15.499	15.500	(0.988)	474773	20.0000	20.3	
91 1,3-Dichlorobenzene	146	15.585	15.585	(0.994)	265920	20.0000	19.7	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	453513	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707	(1.001)	274332	20.0000	19.7	
94 N-Butylbenzene	91	16.064	16.064	(1.024)	431060	20.0000	20.1	
95 sec-Butylbenzene	105	15.306	15.306	(0.976)	540193	20.0000	20.6	
96 1,2-Dichlorobenzene	146	16.257	16.257	(1.036)	256249	20.0000	19.6	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294	(1.103)	31680	20.0000	20.0	
98 1,3,5-Trichlorobenzene	180	17.337	17.337	(1.105)	208586	20.0000	19.0	
99 Hexachlorobutadiene	225	18.116	18.117	(1.155)	80188	20.0000	18.7	
100 1,2,4-Trichlorobenzene	180	18.145	18.145	(1.157)	201164	20.0000	19.8	
101 1,2,3-Trimethylbenzene	105	15.742	15.743	(1.004)	471707	20.0000	20.6	
102 Naphthalene	128	18.552	18.553	(1.183)	521738	20.0000	21.1	
103 1,2,3-Trichlorobenzene	180	18.788	18.789	(1.198)	189424	20.0000	18.8	
104 Methyl Acetate	43	4.910	4.910	(0.637)	103319	20.0000	20.8	
105 Methylcyclohexane	83	8.342	8.342	(1.083)	174185	20.0000	18.6	

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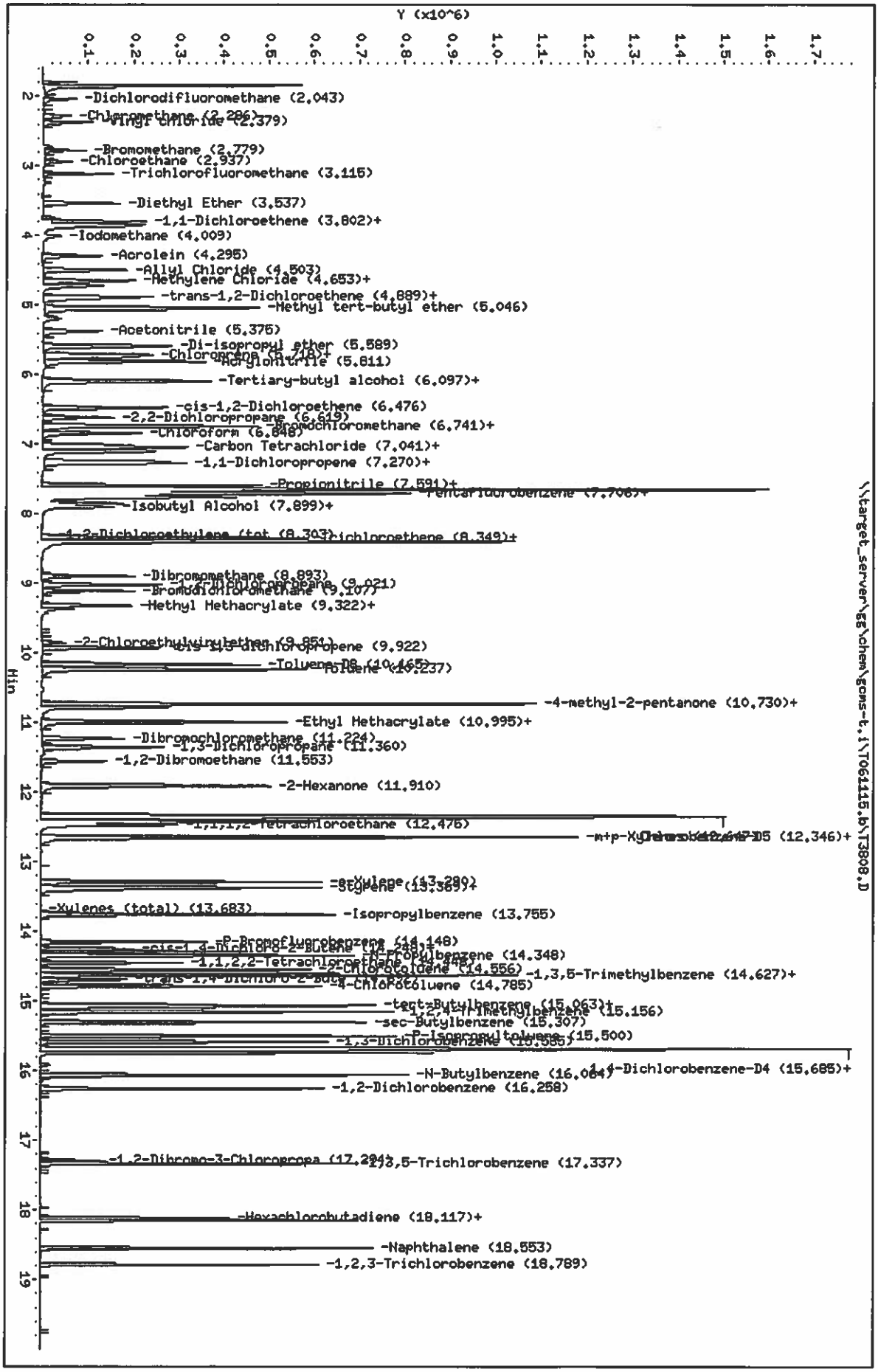
Date : 11-JUN-2015 13:57
Client ID: Initial Calibration
Sample Info: WG164633-3
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-t.i
Operator: EHE
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3809.D
Report Date: 12-Jun-2015 08:08

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T061115.b\T3809.D
Lab Smp Id: WG164633-2 Client Smp ID: Initial Calibration
Inj Date : 11-JUN-2015 14:32
Operator : EME Inst ID: gcms-t.i
Smp Info : WG164633-2
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 14:32 Cal File: T3809.D
Als bottle: 4 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	2.042	2.043	(0.265)	18779	5.00000	5.2	
2 Chloromethane	50	2.285	2.279	(0.297)	26785	5.00000	5.0	
3 Vinyl chloride	62	2.378	2.379	(0.309)	26579	5.00000	5.0	
4 Bromomethane	94	2.779	2.779	(0.361)	15423	5.00000	4.8	
5 Chloroethane	64	2.943	2.937	(0.382)	17719	5.00000	5.5	
6 Trichlorofluoromethane	101	3.122	3.115	(0.405)	34679	5.00000	4.9	
7 Diethyl Ether	59	3.537	3.537	(0.459)	21398	5.00000	4.8	
8 Tertiary-butyl alcohol	59	6.089	6.090	(0.790)	61609	25.0000	23.0	
9 1,1-Dichloroethene	96	3.808	3.802	(0.494)	24964	5.00000	4.8	
10 Carbon Disulfide	76	3.844	3.845	(0.499)	67861	5.00000	4.9	
11 Freon-113	151	3.865	3.866	(0.502)	16570	5.00000	4.7	
12 Iodomethane	142	4.008	4.009	(0.520)	16868	5.00000	8.1	
13 Acrolein	56	4.302	4.295	(0.558)	32037	25.0000	27.2	
14 Methylene Chloride	84	4.652	4.653	(0.604)	35045	5.00000	5.6	
15 Acetone	43	4.731	4.717	(0.614)	40921	25.0000	22.9	
16 Isobutyl Alcohol	43	7.898	7.899	(1.025)	15559	100.000	98.4	
17 trans-1,2-Dichloroethene	96	4.888	4.889	(0.634)	25998	5.00000	4.7	
18 Allyl Chloride	41	4.495	4.495	(0.583)	33346	5.00000	4.8	
19 Methyl tert-butyl ether	73	5.045	5.046	(0.655)	133494	10.0000	9.8	
20 Acetonitrile	39	5.374	5.375	(0.697)	7062	50.0000	50.7	
21 Di-isopropyl ether	45	5.589	5.589	(0.725)	62490	5.00000	4.5	
22 Chloroprene	53	5.717	5.711	(0.742)	33140	5.00000	4.6	
23 Propionitrile	54	7.619	7.620	(0.989)	47513	50.0000	54.5	
24 Methacrylonitrile	41	7.648	7.656	(0.993)	193415	50.0000	57.5	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3809.D
Report Date: 12-Jun-2015 08:08

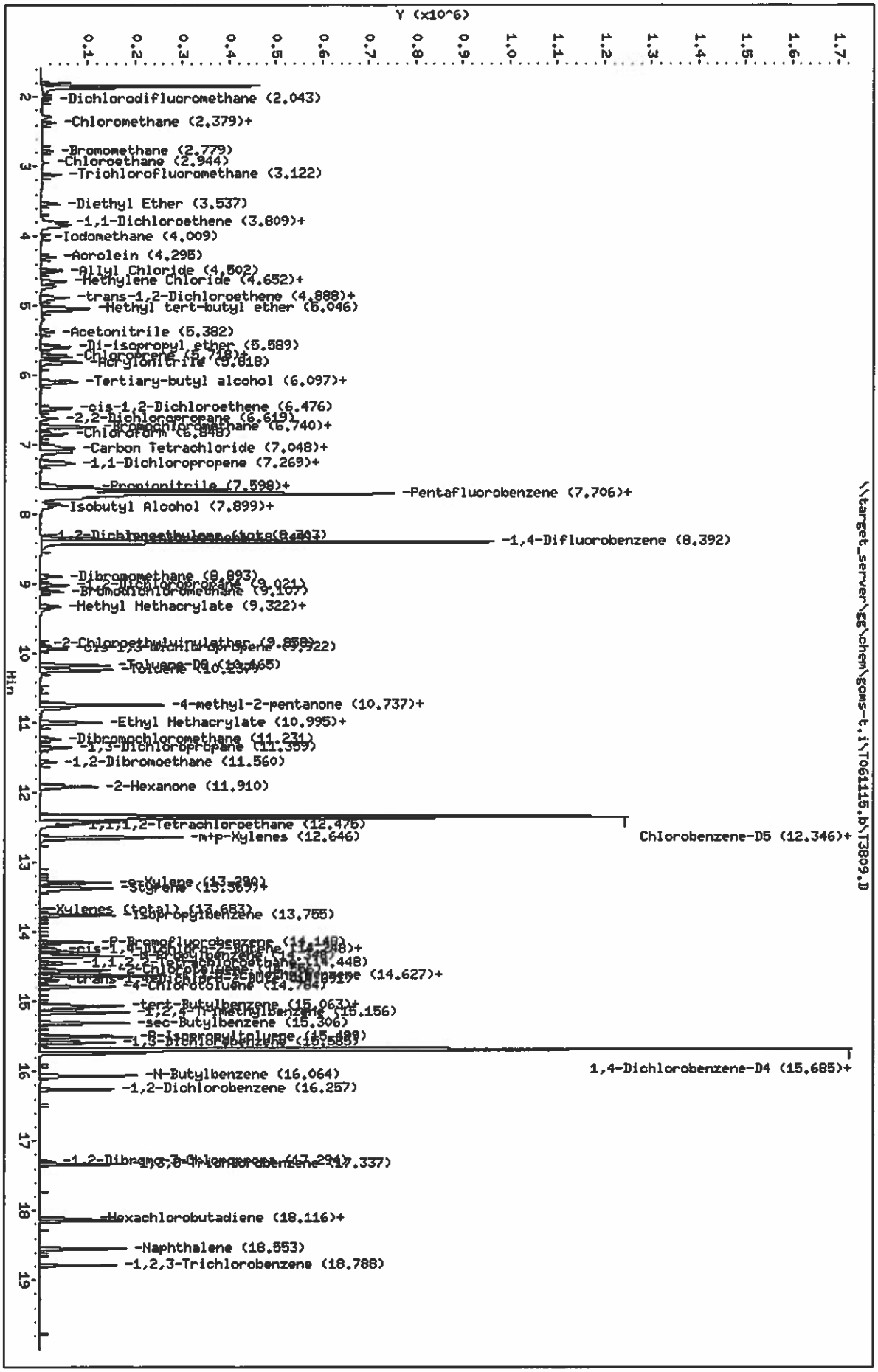
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.746	5.747	(0.746)	45230	5.00000	4.9	
	26 Acrylonitrile	52	5.810	5.811	(0.754)	59921	25.0000	27.7	
	27 Ethyl tertiary-butyl ether	59	6.089	6.090	(0.790)	61609	5.00000	4.6	
	28 Vinyl Acetate	43	6.103	6.104	(0.727)	45929	5.00000	5.1	
	29 cis-1,2-Dichloroethene	96	6.475	6.476	(0.840)	34008	5.00000	4.9	
	31 Methyl Methacrylate	41	9.321	9.315	(1.110)	19821	5.00000	4.8	
	32 2,2-Dichloropropane	77	6.618	6.619	(0.859)	27706	5.00000	4.6	
	33 Bromochloromethane	128	6.740	6.740	(0.875)	16594	5.00000	5.5	
	34 Chloroform	83	6.847	6.848	(0.889)	46889	5.00000	5.0	
	35 Carbon Tetrachloride	117	7.019	7.019	(0.836)	27930	5.00000	4.8	
	36 Tetrahydrofuran	42	7.047	7.041	(0.915)	44606	25.0000	25.7	
$	37 Dibromofluoromethane	113	7.083	7.084	(0.919)	28812	5.00000	5.3	
	38 1,1,1-Trichloroethane	97	7.104	7.105	(0.922)	37154	5.00000	4.9	
	39 1,1-Dichloropropene	75	7.269	7.270	(0.865)	34210	5.00000	4.8	
	40 2-Butanone	43	7.247	7.241	(0.941)	59987	25.0000	20.9	
	41 Benzene	78	7.591	7.591	(0.904)	104760	5.00000	4.9	
*	42 Pentafluorobenzene	168	7.705	7.706	(1.000)	594358	50.0000		
	43 Cyclohexane	56	6.740	6.740	(0.875)	36995	5.00000	4.9	
	44 Ethyl Methacrylate	69	10.994	10.995	(1.309)	38129	5.00000	5.3	
$	45 1,2-Dichloroethane-D4	65	7.769	7.770	(1.008)	32477	5.00000	5.6	
	46 Tertiary-amyl methyl ether	73	7.755	7.749	(1.006)	59838	5.00000	4.7	
	47 1,2-Dichloroethane	62	7.855	7.856	(0.935)	33791	5.00000	5.1	
	48 Trichloroethene	95	8.349	8.349	(0.994)	24019	5.00000	4.4	
*	49 1,4-Difluorobenzene	114	8.399	8.391	(1.000)	886183	50.0000		
	50 Dibromomethane	93	8.892	8.886	(1.059)	17985	5.00000	5.1	
	51 1,2-Dichloropropane	63	9.021	9.021	(1.074)	26715	5.00000	5.0	
	52 Bromodichloromethane	83	9.114	9.107	(1.085)	34686	5.00000	5.2	
	53 cis-1,3-dichloropropene	75	9.929	9.922	(1.182)	38626	5.00000	4.8	
	54 1,4-Dioxane	88	9.364	9.357	(1.115)	17589	100.000	184	
$	55 Toluene-D8	98	10.165	10.165	(1.210)	103968	5.00000	5.2	
	56 2-Chloroethylvinylether	63	9.864	9.851	(1.175)	5153	5.00000	5.5	
	57 Toluene	92	10.229	10.237	(1.218)	68001	5.00000	5.0	
	58 4-methyl-2-pentanone	43	10.730	10.730	(1.278)	127006	25.0000	26.2	
	59 Tetrachloroethene	164	10.737	10.737	(0.870)	24096	5.00000	4.8	
	60 trans-1,3-Dichloropropene	75	10.780	10.780	(1.283)	31901	5.00000	4.8	
	61 1,1,2-Trichloroethane	83	10.987	10.988	(1.308)	22699	5.00000	5.1	
	62 Dibromochloromethane	129	11.230	11.224	(0.910)	27338	5.00000	4.8	
	63 1,3-Dichloropropane	76	11.359	11.360	(0.920)	47362	5.00000	5.0	
	64 1,2-Dibromoethane	107	11.559	11.553	(1.376)	28280	5.00000	5.2	
	65 2-Hexanone	43	11.909	11.903	(0.965)	91926	25.0000	25.7	
*	66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	828445	50.0000		
	67 Chlorobenzene	112	12.367	12.368	(1.002)	81224	5.00000	5.0	
	68 1-Chlorohexane	91	12.353	12.353	(1.001)	38387	5.00000	4.8	
	69 Ethylbenzene	106	12.424	12.418	(1.006)	43632	5.00000	4.9	
	70 1,1,1,2-Tetrachloroethane	131	12.474	12.475	(1.010)	24489	5.00000	4.6	
	72 m+p-Xylenes	106	12.646	12.647	(1.024)	106617	10.0000	10.1	
	73 o-Xylene	106	13.289	13.290	(1.076)	48461	5.00000	4.8	
	74 Styrene	104	13.368	13.369	(1.083)	87400	5.00000	5.1	
	75 Bromoform	173	13.397	13.397	(1.085)	19232	5.00000	4.5	
	76 Isopropylbenzene	105	13.754	13.755	(0.877)	123595	5.00000	5.1	
$	77 P-Bromofluorobenzene	95	14.147	14.148	(1.684)	42673	5.00000	5.4	
	78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248	(0.908)	10988	5.00000	5.4	
	79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692	(0.937)	8821	5.00000	5.2	
	80 Bromobenzene	156	14.290	14.291	(0.911)	36177	5.00000	5.0	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3809.D
Report Date: 12-Jun-2015 08:08

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
81 N-Propylbenzene	91	14.348	14.348	(0.915)	145995	5.00000	5.1	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448	(0.921)	42735	5.00000	5.4	
83 1,3,5-Trimethylbenzene	105	14.627	14.627	(0.933)	109410	5.00000	5.1	
84 2-Chlorotoluene	91	14.555	14.556	(0.928)	89006	5.00000	5.1	
85 1,2,3-Trichloropropane	75	14.627	14.627	(0.933)	34000	5.00000	5.4	
86 4-Chlorotoluene	91	14.784	14.785	(0.943)	96213	5.00000	5.0	
87 tert-Butylbenzene	119	15.063	15.063	(0.960)	105238	5.00000	4.9	
88 Pentachloroethane	117	15.084	15.085	(0.962)	21938	5.00000	4.7	
89 1,2,4-Trimethylbenzene	105	15.156	15.156	(0.966)	108892	5.00000	5.0	
90 P-Isopropyltoluene	119	15.499	15.500	(0.988)	118092	5.00000	5.0	
91 1,3-Dichlorobenzene	146	15.585	15.585	(0.994)	68742	5.00000	5.0	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	459280	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707	(1.001)	71450	5.00000	5.1	
94 N-Butylbenzene	91	16.064	16.064	(1.024)	110018	5.00000	5.1	
95 sec-Butylbenzene	105	15.306	15.306	(0.976)	137983	5.00000	5.2	
96 1,2-Dichlorobenzene	146	16.257	16.257	(1.036)	68692	5.00000	5.2	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294	(1.103)	8281	5.00000	5.2	
98 1,3,5-Trichlorobenzene	180	17.336	17.337	(1.105)	54235	5.00000	4.9	
99 Hexachlorobutadiene	225	18.116	18.117	(1.155)	21441	5.00000	4.9	
100 1,2,4-Trichlorobenzene	180	18.144	18.145	(1.157)	50793	5.00000	4.9	
101 1,2,3-Trimethylbenzene	105	15.742	15.743	(1.004)	120505	5.00000	5.2	
102 Naphthalene	128	18.552	18.553	(1.183)	129657	5.00000	5.2	
103 1,2,3-Trichlorobenzene	180	18.788	18.789	(1.198)	50464	5.00000	4.9	
104 Methyl Acetate	43	4.917	4.910	(0.638)	25946	5.00000	5.3	
105 Methylcyclohexane	83	8.341	8.342	(1.083)	42020	5.00000	4.6	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3809.D
Date : 11-JUN-2015 14:32
Client ID: Initial Calibration
Sample Info: WG164633-2
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-t.i
Operator: EHE
Column diameter: 0.18



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Report Date: 12-Jun-2015 08:09

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Data file : \\target_server\gg\chem\gcms-t.i\T061115.b\T3811.D
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Inj Date : 11-JUN-2015 15:42 MS Autotune Date: 26-FEB-2015 07:23
Operator : EME Inst ID: gcms-t.i
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Misc Info :
Comment : SW846 5030
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Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 15:42 Cal File: T3811.D
Als bottle: 6 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	2.042	2.043	(0.265)	736096	200.000	202(A)	
2 Chloromethane	50	2.271	2.279	(0.295)	1072975	200.000	200(A)	
3 Vinyl chloride	62	2.378	2.379	(0.308)	1056756	200.000	200(A)	
4 Bromomethane	94	2.779	2.779	(0.360)	741424	200.000	231(A)	
5 Chloroethane	64	2.943	2.937	(0.382)	652566	200.000	204(A)	
6 Trichlorofluoromethane	101	3.115	3.115	(0.404)	1439174	200.000	205(A)	
7 Diethyl Ether	59	3.537	3.537	(0.459)	893926	200.000	198	
8 Tertiary-butyl alcohol	59	6.089	6.090	(0.790)	2929152	1000.00	1090(A)	
9 1,1-Dichloroethene	96	3.801	3.802	(0.493)	1074661	200.000	207(A)	
10 Carbon Disulfide	76	3.844	3.845	(0.498)	2799792	200.000	200(A)	
11 Freon-113	151	3.873	3.866	(0.502)	716155	200.000	202(A)	
12 Iodomethane	142	4.009	4.009	(0.520)	934791	200.000	205(A)	
13 Acrolein	56	4.295	4.295	(0.557)	830022	1000.00	704	
14 Methylene Chloride	84	4.652	4.653	(0.603)	1268151	200.000	201(A)	
15 Acetone	43	4.724	4.717	(0.612)	780912	1000.00	437	
16 Isobutyl Alcohol	43	7.898	7.899	(1.024)	128421	4000.00	811	
17 trans-1,2-Dichloroethene	96	4.881	4.889	(0.633)	1140241	200.000	205(A)	
18 Allyl Chloride	41	4.495	4.495	(0.583)	1451544	200.000	210(A)	
19 Methyl tert-butyl ether	73	5.045	5.046	(0.654)	5148353	400.000	376	
20 Acetonitrile	39	5.374	5.375	(0.697)	117239	2000.00	840	
21 Di-isopropyl ether	45	5.589	5.589	(0.725)	3065002	200.000	221(A)	
22 Chloroprene	53	5.717	5.711	(0.741)	1524125	200.000	214(A)	
23 Propionitrile	54	7.627	7.620	(0.989)	900240	2000.00	1030	
24 Methacrylonitrile	41	7.662	7.656	(0.994)	4341954	2000.00	1290	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3811.D
Report Date: 12-Jun-2015 08:09

	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	5.746	5.747	(0.745)	1915544	200.000	206(A)	
	26 Acrylonitrile	52	5.818	5.811	(0.754)	1411663	1000.00	652	
	27 Ethyl tertiary-butyl ether	59	6.089	6.090	(0.790)	2929152	200.000	218(A)	
	28 Vinyl Acetate	43	6.104	6.104	(0.727)	1973929	200.000	198	
	29 cis-1,2-Dichloroethene	96	6.475	6.476	(0.840)	1413909	200.000	205(A)	
	31 Methyl Methacrylate	41	9.314	9.315	(1.109)	725553	200.000	162	
	32 2,2-Dichloropropane	77	6.618	6.619	(0.858)	1382467	200.000	228(A)	
	33 Bromochloromethane	128	6.740	6.740	(0.874)	626724	200.000	206(A)	
	34 Chloroform	83	6.847	6.848	(0.888)	1912310	200.000	203(A)	
	35 Carbon Tetrachloride	117	7.019	7.019	(0.836)	1340391	200.000	212(A)	
	36 Tetrahydrofuran	42	7.040	7.041	(0.913)	987696	1000.00	568	
$	37 Dibromofluoromethane	113	7.083	7.084	(0.918)	1132613	200.000	208(A)	
	38 1,1,1-Trichloroethane	97	7.105	7.105	(0.921)	1614029	200.000	214(A)	
	39 1,1-Dichloropropene	75	7.269	7.270	(0.865)	1584411	200.000	208(A)	
	40 2-Butanone	43	7.240	7.241	(0.939)	1407121	1000.00	520	
	41 Benzene	78	7.591	7.591	(0.904)	4355972	200.000	191	
*	42 Pentafluorobenzene	168	7.712	7.706	(1.000)	595466	50.0000		
	43 Cyclohexane	56	6.740	6.740	(0.874)	1625119	200.000	213(A)	
	44 Ethyl Methacrylate	69	10.994	10.995	(1.309)	1301235	200.000	168	
$	45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.007)	1111481	200.000	192	
	46 Tertiary-amyl methyl ether	73	7.755	7.749	(1.006)	2605371	200.000	203(A)	
	47 1,2-Dichloroethane	62	7.855	7.856	(0.935)	1346283	200.000	188	
	48 Trichloroethene	95	8.356	8.349	(0.995)	1243170	200.000	212(A)	
*	49 1,4-Difluorobenzene	114	8.399	8.391	(1.000)	951581	50.0000		
	50 Dibromomethane	93	8.892	8.886	(1.059)	703876	200.000	186	
	51 1,2-Dichloropropane	63	9.021	9.021	(1.074)	1188812	200.000	208(A)	
	52 Bromodichloromethane	83	9.107	9.107	(1.084)	1473920	200.000	205(A)	
	53 cis-1,3-dichloropropene	75	9.929	9.922	(1.182)	1861840	200.000	216(A)	
	54 1,4-Dioxane	88	9.364	9.357	(1.115)	14854	4000.00	145	
$	55 Toluene-D8	98	10.165	10.165	(1.210)	3849872	200.000	181	
	56 2-Chloroethylvinylether	63	9.850	9.851	(1.173)	112681	200.000	113	
	57 Toluene	92	10.236	10.237	(1.219)	2773446	200.000	192	
	58 4-methyl-2-pentanone	43	10.730	10.730	(1.278)	2978188	1000.00	573	
	59 Tetrachloroethene	164	10.737	10.737	(0.870)	1021865	200.000	201(A)	
	60 trans-1,3-Dichloropropene	75	10.780	10.780	(1.283)	1510984	200.000	211(A)	
	61 1,1,2-Trichloroethane	83	10.987	10.988	(1.308)	864225	200.000	182	
	62 Dibromochloromethane	129	11.230	11.224	(0.910)	1203323	200.000	207(A)	
	63 1,3-Dichloropropane	76	11.359	11.360	(0.920)	1814678	200.000	190	
	64 1,2-Dibromoethane	107	11.559	11.553	(1.376)	1063892	200.000	183	
	65 2-Hexanone	43	11.902	11.903	(0.964)	2057756	1000.00	568	
*	66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	839592	50.0000		
	67 Chlorobenzene	112	12.374	12.368	(1.002)	3142466	200.000	190	
	68 1-Chlorohexane	91	12.353	12.353	(1.001)	1595699	200.000	196	
	69 Ethylbenzene	106	12.424	12.418	(1.006)	1772477	200.000	197	
	70 1,1,1,2-Tetrachloroethane	131	12.474	12.475	(1.010)	1174879	200.000	218(A)	
	72 m+p-Xylenes	106	12.653	12.647	(1.025)	3928766	400.000	367	
	73 o-Xylene	106	13.290	13.290	(1.076)	2084615	200.000	204(A)	
	74 Styrene	104	13.368	13.369	(1.083)	3363052	200.000	194	
	75 Bromoform	173	13.397	13.397	(1.085)	810612	200.000	189	
	76 Isopropylbenzene	105	13.754	13.755	(0.877)	4568093	200.000	179	
$	77 P-Bromofluorobenzene	95	14.148	14.148	(1.684)	1571295	200.000	186	
	78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248	(0.908)	343516	200.000	161	
	79 trans-1,4-Dichloro-2-Butene	53	14.698	14.692	(0.937)	280993	200.000	157	
	80 Bromobenzene	156	14.291	14.291	(0.911)	1494203	200.000	196	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3811.D
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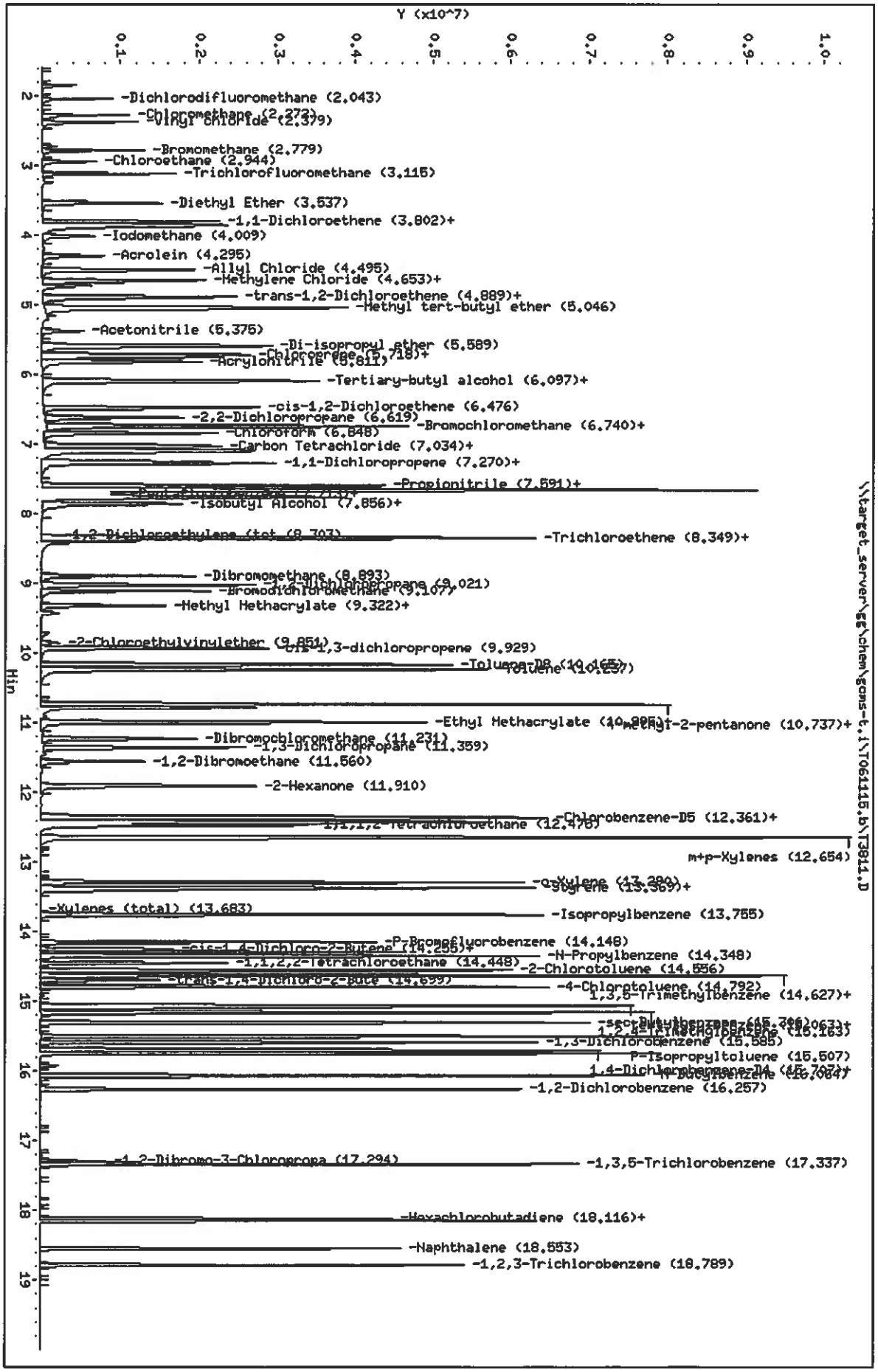
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
81 N-Propylbenzene	91	14.348	14.348	(0.915)	5066461	200.000	170	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448	(0.921)	1261293	200.000	153	
83 1,3,5-Trimethylbenzene	105	14.627	14.627	(0.933)	4161267	200.000	184	
84 2-Chlorotoluene	91	14.555	14.556	(0.928)	3383407	200.000	185	
85 1,2,3-Trichloropropane	75	14.627	14.627	(0.933)	942520	200.000	142	
86 4-Chlorotoluene	91	14.791	14.785	(0.943)	3547962	200.000	177	
87 tert-Butylbenzene	119	15.063	15.063	(0.960)	4283308	200.000	190	
88 Pentachloroethane	117	15.084	15.085	(0.962)	1032180	200.000	210(A)	
89 1,2,4-Trimethylbenzene	105	15.163	15.156	(0.967)	4123591	200.000	182	
90 P-Isopropyltoluene	119	15.506	15.500	(0.989)	4411008	200.000	178	
91 1,3-Dichlorobenzene	146	15.585	15.585	(0.994)	2661351	200.000	186	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	480634	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707	(1.001)	2714295	200.000	184	
94 N-Butylbenzene	91	16.064	16.064	(1.024)	3933693	200.000	173	
95 sec-Butylbenzene	105	15.306	15.306	(0.976)	4803435	200.000	173	
96 1,2-Dichlorobenzene	146	16.264	16.257	(1.037)	2563734	200.000	185	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294	(1.103)	199873	200.000	119	
98 1,3,5-Trichlorobenzene	180	17.337	17.337	(1.105)	2157166	200.000	185	
99 Hexachlorobutadiene	225	18.116	18.117	(1.155)	852381	200.000	188	
100 1,2,4-Trichlorobenzene	180	18.152	18.145	(1.157)	1935533	200.000	179	
101 1,2,3-Trimethylbenzene	105	15.749	15.743	(1.004)	4246837	200.000	175	
102 Naphthalene	128	18.552	18.553	(1.183)	3170681	200.000	121	
103 1,2,3-Trichlorobenzene	180	18.788	18.789	(1.198)	1654112	200.000	154	
104 Methyl Acetate	43	4.909	4.910	(0.637)	633413	200.000	129	
105 Methylcyclohexane	83	8.342	8.342	(1.082)	1912524	200.000	207(A)	

QC Flag Legend

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

Data File: \\target_server\gc\chem\gcms-t.i\T061115.b\T3811.D
Date : 11-JUN-2015 15:42
Client ID: Initial Calibration
Sample Info: WC164633-6
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-t.i
Operator: EHE
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3812.D
Report Date: 12-Jun-2015 08:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T061115.b\T3812.D
Lab Smp Id: WG164633-5 Client Smp ID: Initial Calibration
Inj Date : 11-JUN-2015 16:17 MS Autotune Date: 26-FEB-2015 07:23
Operator : EME Inst ID: gcms-t.i
Smp Info : WG164633-5
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 16:17 Cal File: T3812.D
Als bottle: 7 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	2.042	2.043	(0.265)	344015	100.000	92.9	
2 Chloromethane	50	2.278	2.279	(0.296)	520486	100.000	95.6	
3 Vinyl chloride	62	2.378	2.379	(0.309)	537427	100.000	100	
4 Bromomethane	94	2.779	2.779	(0.361)	343162	100.000	105	
5 Chloroethane	64	2.929	2.937	(0.380)	189683	100.000	58.3	
6 Trichlorofluoromethane	101	3.108	3.115	(0.403)	690052	100.000	96.7	
7 Diethyl Ether	59	3.537	3.537	(0.459)	475174	100.000	104	
8 Tertiary-butyl alcohol	59	6.089	6.090	(0.790)	1545953	500.000	567	
9 1,1-Dichloroethene	96	3.801	3.802	(0.493)	515190	100.000	97.8	
10 Carbon Disulfide	76	3.844	3.845	(0.499)	1400823	100.000	98.7	
11 Freon-113	151	3.866	3.866	(0.502)	329760	100.000	91.5	
12 Iodomethane	142	4.009	4.009	(0.520)	403672	100.000	90.0	
13 Acrolein	56	4.295	4.295	(0.557)	657551	500.000	549	
14 Methylene Chloride	84	4.652	4.653	(0.604)	624003	100.000	97.6	
15 Acetone	43	4.724	4.717	(0.613)	779365	500.000	429	
16 Isobutyl Alcohol	43	7.905	7.899	(1.026)	408952	2000.00	2540	
17 trans-1,2-Dichloroethene	96	4.881	4.889	(0.633)	563361	100.000	99.7	
18 Allyl Chloride	41	4.495	4.495	(0.583)	707367	100.000	101	
19 Methyl tert-butyl ether	73	5.045	5.046	(0.655)	3069479	200.000	221	
20 Acetonitrile	39	5.374	5.375	(0.698)	138030	1000.00	974	
21 Di-isopropyl ether	45	5.589	5.589	(0.725)	1578748	100.000	112	
22 Chloroprene	53	5.710	5.711	(0.741)	746934	100.000	103	
23 Propionitrile	54	7.627	7.620	(0.990)	937913	1000.00	1060	
24 Methacrylonitrile	41	7.655	7.656	(0.994)	3372062	1000.00	987	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3812.D
Report Date: 12-Jun-2015 08:09

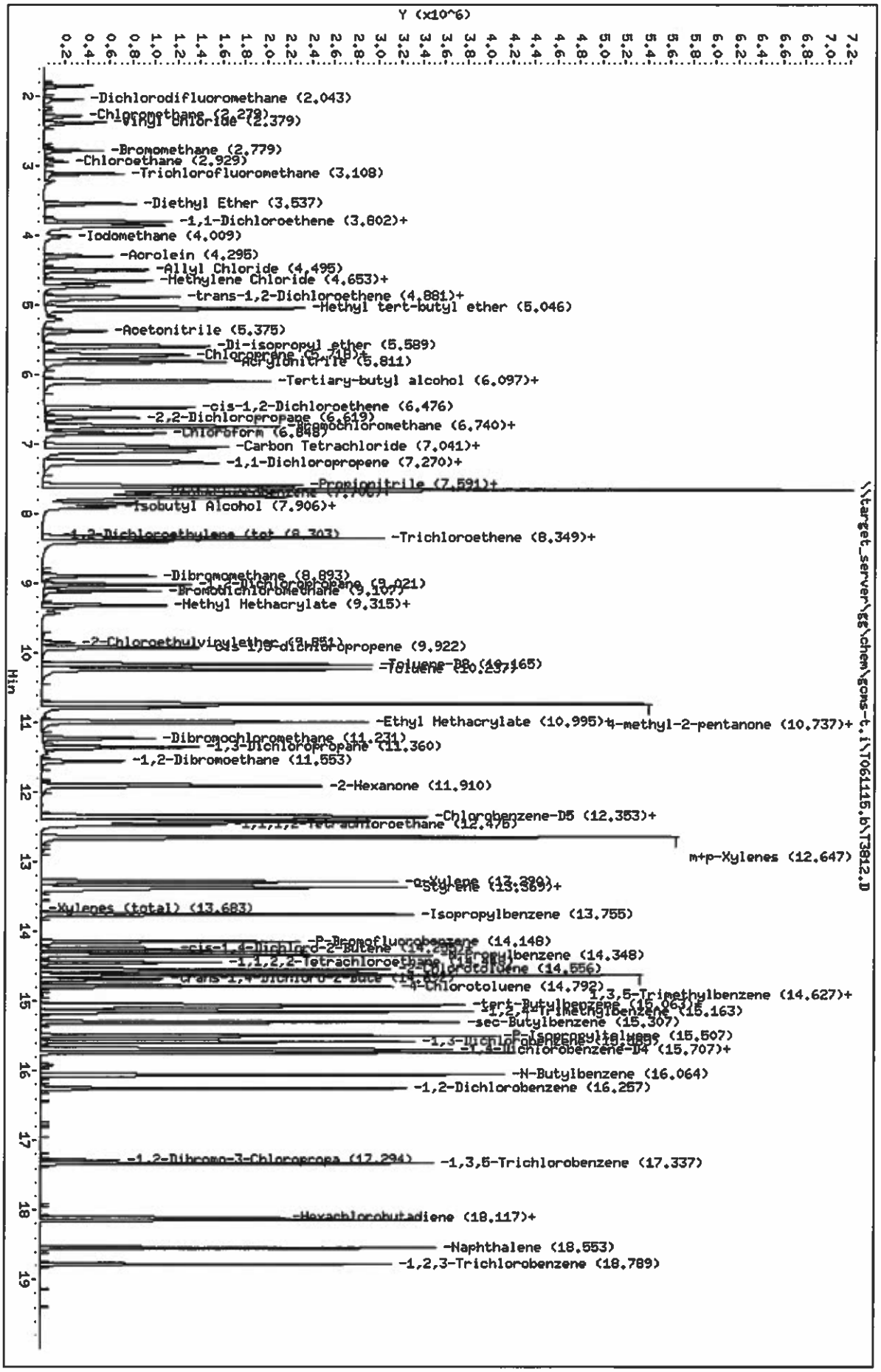
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.746	5.747	(0.746)	941397	100.000	99.8	
	26 Acrylonitrile	52	5.810	5.811	(0.754)	1169228	500.000	532	
	27 Ethyl tertiary-butyl ether	59	6.089	6.090	(0.790)	1545953	100.000	113	
	28 Vinyl Acetate	43	6.104	6.104	(0.727)	1253105	100.000	106	
	29 cis-1,2-Dichloroethene	96	6.475	6.476	(0.840)	700427	100.000	100	
	31 Methyl Methacrylate	41	9.314	9.315	(1.110)	516994	100.000	115	
	32 2,2-Dichloropropane	77	6.618	6.619	(0.859)	646899	100.000	105	
	33 Bromochloromethane	128	6.740	6.740	(0.875)	278708	100.000	90.2	
	34 Chloroform	83	6.847	6.848	(0.889)	941610	100.000	98.7	
	35 Carbon Tetrachloride	117	7.019	7.019	(0.836)	629689	100.000	99.1	
	36 Tetrahydrofuran	42	7.040	7.041	(0.914)	908790	500.000	515	
$	37 Dibromofluoromethane	113	7.083	7.084	(0.919)	581225	100.000	105	
	38 1,1,1-Trichloroethane	97	7.105	7.105	(0.922)	781304	100.000	102	
	39 1,1-Dichloropropene	75	7.269	7.270	(0.866)	766468	100.000	100	
	40 2-Butanone	43	7.241	7.241	(0.940)	1346097	500.000	490	
	41 Benzene	78	7.591	7.591	(0.905)	2277498	100.000	99.0	
*	42 Pentafluorobenzene	168	7.705	7.706	(1.000)	604283	50.0000		
	43 Cyclohexane	56	6.740	6.740	(0.875)	770880	100.000	99.8	
	44 Ethyl Methacrylate	69	10.994	10.995	(1.310)	851660	100.000	110	
$	45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.008)	603506	100.000	102	
	46 Tertiary-amyl methyl ether	73	7.755	7.749	(1.006)	1462708	100.000	112	
	47 1,2-Dichloroethane	62	7.855	7.856	(0.936)	683670	100.000	95.0	
	48 Trichloroethene	95	8.349	8.349	(0.995)	616328	100.000	104	
*	49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	958403	50.0000		
	50 Dibromomethane	93	8.892	8.886	(1.060)	372243	100.000	97.5	
	51 1,2-Dichloropropane	63	9.021	9.021	(1.075)	572210	100.000	99.6	
	52 Bromodichloromethane	83	9.107	9.107	(1.085)	720332	100.000	99.4	
	53 cis-1,3-dichloropropene	75	9.922	9.922	(1.182)	923238	100.000	106	
	54 1,4-Dioxane	88	9.364	9.357	(1.116)	185343	2000.00	1800	
$	55 Toluene-D8	98	10.165	10.165	(1.211)	2191951	100.000	102	
	56 2-Chloroethylvinylether	63	9.850	9.851	(1.174)	131879	100.000	131	
	57 Toluene	92	10.236	10.237	(1.220)	1447714	100.000	99.6	
	58 4-methyl-2-pentanone	43	10.730	10.730	(1.279)	2534345	500.000	484	
	59 Tetrachloroethene	164	10.737	10.737	(0.870)	493618	100.000	98.0	
	60 trans-1,3-Dichloropropene	75	10.780	10.780	(1.285)	794482	100.000	110	
	61 1,1,2-Trichloroethane	83	10.987	10.988	(1.309)	486881	100.000	102	
	62 Dibromochloromethane	129	11.230	11.224	(0.910)	631322	100.000	110	
	63 1,3-Dichloropropane	76	11.359	11.360	(0.920)	1014243	100.000	107	
	64 1,2-Dibromoethane	107	11.552	11.553	(1.377)	609868	100.000	104	
	65 2-Hexanone	43	11.910	11.903	(0.965)	1856196	500.000	517	
*	66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	832186	50.0000		
	67 Chlorobenzene	112	12.374	12.368	(1.002)	1614281	100.000	98.6	
	68 1-Chlorohexane	91	12.353	12.353	(1.001)	776955	100.000	96.1	
	69 Ethylbenzene	106	12.424	12.418	(1.006)	887239	100.000	99.7	
	70 1,1,1,2-Tetrachloroethane	131	12.475	12.475	(1.010)	572923	100.000	107	
	72 m+p-Xylenes	106	12.646	12.647	(1.024)	2083248	200.000	196	
	73 o-Xylene	106	13.290	13.290	(1.076)	1046286	100.000	103	
	74 Styrene	104	13.368	13.369	(1.083)	1765127	100.000	103	
	75 Bromoform	173	13.397	13.397	(1.085)	472093	100.000	111	
	76 Isopropylbenzene	105	13.754	13.755	(0.877)	2469729	100.000	99.0	
$	77 P-Bromofluorobenzene	95	14.148	14.148	(1.686)	833972	100.000	98.0	
	78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248	(0.908)	244596	100.000	117	
	79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692	(0.937)	202386	100.000	116	
	80 Bromobenzene	156	14.291	14.291	(0.911)	747903	100.000	100	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3812.D
Report Date: 12-Jun-2015 08:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
81 N-Propylbenzene	91	14.348	14.348	(0.915)	2821716	100.000	96.6	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448	(0.921)	840137	100.000	104	
83 1,3,5-Trimethylbenzene	105	14.627	14.627	(0.933)	2222145	100.000	100	
84 2-Chlorotoluene	91	14.555	14.556	(0.928)	1759828	100.000	98.2	
85 1,2,3-Trichloropropane	75	14.627	14.627	(0.933)	664554	100.000	102	
86 4-Chlorotoluene	91	14.791	14.785	(0.943)	1876700	100.000	95.6	
87 tert-Butylbenzene	119	15.063	15.063	(0.960)	2235009	100.000	102	
88 Pentachloroethane	117	15.084	15.085	(0.962)	496706	100.000	104	
89 1,2,4-Trimethylbenzene	105	15.163	15.156	(0.967)	2205370	100.000	99.3	
90 P-Isopropyltoluene	119	15.506	15.500	(0.989)	2391309	100.000	98.8	
91 1,3-Dichlorobenzene	146	15.585	15.585	(0.994)	1362901	100.000	97.6	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	470119	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707	(1.001)	1391661	100.000	96.4	
94 N-Butylbenzene	91	16.064	16.064	(1.024)	2137969	100.000	96.2	
95 sec-Butylbenzene	105	15.306	15.306	(0.976)	2656991	100.000	97.6	
96 1,2-Dichlorobenzene	146	16.257	16.257	(1.036)	1336133	100.000	98.5	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294	(1.103)	161281	100.000	98.3	
98 1,3,5-Trichlorobenzene	180	17.337	17.337	(1.105)	1100258	100.000	96.7	
99 Hexachlorobutadiene	225	18.116	18.117	(1.155)	416364	100.000	93.7	
100 1,2,4-Trichlorobenzene	180	18.152	18.145	(1.157)	1033805	100.000	97.9	
101 1,2,3-Trimethylbenzene	105	15.742	15.743	(1.004)	2335129	100.000	98.4	
102 Naphthalene	128	18.552	18.553	(1.183)	2455751	100.000	95.7	
103 1,2,3-Trichlorobenzene	180	18.788	18.789	(1.198)	976185	100.000	93.2	
104 Methyl Acetate	43	4.910	4.910	(0.637)	520141	100.000	104	
105 Methylcyclohexane	83	8.342	8.342	(1.083)	946958	100.000	101	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3812.D
Date : 11-JUN-2015 16:17
Client ID: Initial Calibration
Sample Info: WG164633-5
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-t.i
Operator: EHE
Column diameter: 0.18



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Report Date: 12-Jun-2015 08:09

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T061115.b\T3815.D
Lab Smp Id: WG164633-1 Client Smp ID: Initial Calibration
Inj Date : 11-JUN-2015 18:22 MS Autotune Date: 26-FEB-2015 07:23
Operator : EME Inst ID: gcms-t.i
Smp Info : WG164633-1
Misc Info :
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D
Als bottle: 10 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	2.042	2.043	(0.265)	3646	1.00000	1.1	
2 Chloromethane	50	2.285	2.279	(0.297)	6280	1.00000	1.2	
3 Vinyl chloride	62	2.371	2.379	(0.308)	5341	1.00000	1.1	
4 Bromomethane	94	2.779	2.779	(0.361)	2945	1.00000	0.98(a)	
5 Chloroethane	64	2.943	2.937	(0.382)	4341	1.00000	1.4	
6 Trichlorofluoromethane	101	3.115	3.115	(0.404)	7691	1.00000	1.2	
7 Diethyl Ether	59	3.537	3.537	(0.459)	4056	1.00000	0.96(a)	
8 Tertiary-butyl alcohol	59	6.096	6.090	(0.791)	9571	5.00000	3.8(a)	
9 1,1-Dichloroethene	96	3.801	3.802	(0.493)	5176	1.00000	1.1	
10 Carbon Disulfide	76	3.837	3.845	(0.498)	14259	1.00000	1.1	
11 Freon-113	151	3.873	3.866	(0.503)	4128	1.00000	1.2	
12 Iodomethane	142	4.009	4.009	(0.520)	5123	1.00000	5.6(M)	M6
13 Acrolein	56	4.295	4.295	(0.557)	4960	5.00000	4.5(a)	
14 Methylene Chloride	84	4.652	4.653	(0.604)	12649	1.00000	2.2(a)	
15 Acetone	43	4.731	4.717	(0.614)	9440	5.00000	5.6	
16 Isobutyl Alcohol	43	7.913	7.899	(1.027)	2377	20.0000	16.0(a)	
17 trans-1,2-Dichloroethene	96	4.881	4.889	(0.633)	5800	1.00000	1.1	
18 Allyl Chloride	41	4.502	4.495	(0.584)	6326	1.00000	0.98(a)	
19 Methyl tert-butyl ether	73	5.045	5.046	(0.655)	20226	2.00000	1.6	
20 Acetonitrile	39	5.389	5.375	(0.699)	1607	10.0000	12.3(aM)	M9
21 Di-isopropyl ether	45	5.589	5.589	(0.725)	9576	1.00000	0.74(a)	
22 Chloroprene	53	5.717	5.711	(0.742)	6484	1.00000	0.97(a)	
23 Propionitrile	54	7.619	7.620	(0.989)	8102	10.0000	9.9(a)	
24 Methacrylonitrile	41	7.655	7.656	(0.994)	31900	10.0000	10.1	

REC
12:51 pm, Jun 25, 2015

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3815.D
Report Date: 12-Jun-2015 08:09

	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	5.746	5.747	(0.746)	8570	1.00000	0.99(a)	
	26 Acrylonitrile	52	5.818	5.811	(0.755)	9780	5.00000	4.8(a)	
	27 Ethyl tertiary-butyl ether	59	6.096	6.090	(0.791)	9571	1.00000	0.76(a)	
	28 Vinyl Acetate	43	6.111	6.104	(0.728)	6673	1.00000	2.8(M)	M6
	29 cis-1,2-Dichloroethene	96	6.483	6.476	(0.841)	6649	1.00000	1.0	
	31 Methyl Methacrylate	41	9.321	9.315	(1.111)	3603	1.00000	0.92(a)	
	32 2,2-Dichloropropane	77	6.611	6.619	(0.858)	4736	1.00000	0.84(aM)	M9
	33 Bromochloromethane	128	6.740	6.740	(0.875)	2761	1.00000	0.97(a)	
	34 Chloroform	83	6.840	6.848	(0.888)	9157	1.00000	1.0	
	35 Carbon Tetrachloride	117	7.012	7.019	(0.836)	5470	1.00000	0.99(a)	
	36 Tetrahydrofuran	42	7.055	7.041	(0.916)	6499	5.00000	4.0(a)	
$	37 Dibromofluoromethane	113	7.090	7.084	(0.920)	4870	1.00000	0.96(a)	
	38 1,1,1-Trichloroethane	97	7.105	7.105	(0.922)	6587	1.00000	0.94(a)	
	39 1,1-Dichloropropene	75	7.276	7.270	(0.867)	6365	1.00000	0.96(a)	
	40 2-Butanone	43	7.255	7.241	(0.942)	8749	5.00000	2.1(a)	
	41 Benzene	78	7.591	7.591	(0.905)	20490	1.00000	1.0	
*	42 Pentafluorobenzene	168	7.705	7.706	(1.000)	556474	50.0000		
	43 Cyclohexane	56	6.740	6.740	(0.875)	6480	1.00000	0.91(a)	
	44 Ethyl Methacrylate	69	11.001	10.995	(1.311)	5861	1.00000	0.87(a)	
$	45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.008)	5289	1.00000	0.98(a)	
	46 Tertiary-amyl methyl ether	73	7.762	7.749	(1.007)	9987	1.00000	0.83(a)	
	47 1,2-Dichloroethane	62	7.855	7.856	(0.936)	7125	1.00000	1.1	
	48 Trichloroethene	95	8.349	8.349	(0.995)	4765	1.00000	0.93(a)	
*	49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	833716	50.0000		
	50 Dibromomethane	93	8.892	8.886	(1.060)	3477	1.00000	1.0	
	51 1,2-Dichloropropane	63	9.014	9.021	(1.074)	4649	1.00000	0.93(aM)	M6
	52 Bromodichloromethane	83	9.107	9.107	(1.085)	5998	1.00000	0.95(a)	
	53 cis-1,3-dichloropropene	75	9.922	9.922	(1.182)	5972	1.00000	0.79(a)	
	54 1,4-Dioxane	88	9.371	9.357	(1.117)	1883	20.0000	21.0	
$	55 Toluene-D8	98	10.165	10.165	(1.211)	21610	1.00000	1.2	
	57 Toluene	92	10.236	10.237	(1.220)	12716	1.00000	1.0	
	58 4-methyl-2-pentanone	43	10.730	10.730	(1.279)	19984	5.00000	4.4(a)	
	59 Tetrachloroethene	164	10.737	10.737	(0.870)	5616	1.00000	1.2	
	60 trans-1,3-Dichloropropene	75	10.780	10.780	(1.285)	4741	1.00000	0.76(a)	
	61 1,1,2-Trichloroethane	83	10.987	10.988	(1.309)	4046	1.00000	0.98(a)	
	62 Dibromochloromethane	129	11.223	11.224	(0.909)	4832	1.00000	0.87(a)	
	63 1,3-Dichloropropane	76	11.359	11.360	(0.920)	8320	1.00000	0.91(a)	
	64 1,2-Dibromoethane	107	11.552	11.553	(1.377)	4550	1.00000	0.90(aM)	M6
	65 2-Hexanone	43	11.917	11.903	(0.965)	13504	5.00000	3.9(a)	
*	66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	805568	50.0000		
	67 Chlorobenzene	112	12.374	12.368	(1.002)	17028	1.00000	1.1	
	68 1-Chlorohexane	91	12.353	12.353	(1.001)	9640	1.00000	1.2	
	69 Ethylbenzene	106	12.417	12.418	(1.006)	9178	1.00000	1.1	
	70 1,1,1,2-Tetrachloroethane	131	12.474	12.475	(1.010)	4755	1.00000	0.92(a)	
	72 m+p-Xylenes	106	12.646	12.647	(1.024)	22669	2.00000	2.2	
	73 o-Xylene	106	13.290	13.290	(1.076)	9386	1.00000	0.96(a)	
	74 Styrene	104	13.375	13.369	(1.083)	15636	1.00000	0.94(a)	
	75 Bromoform	173	13.404	13.397	(1.086)	3952	1.00000	0.96(Ta)	
	76 Isopropylbenzene	105	13.754	13.755	(0.877)	25286	1.00000	1.1	
$	77 P-Bromofluorobenzene	95	14.155	14.148	(1.687)	9006	1.00000	1.2	
	78 cis-1,4-Dichloro-2-Butene	53	14.255	14.248	(0.909)	1491	1.00000	0.75(a)	
	79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692	(0.937)	1346	1.00000	0.81(a)	
	80 Bromobenzene	156	14.298	14.291	(0.912)	7381	1.00000	1.0	
	81 N-Propylbenzene	91	14.348	14.348	(0.915)	30428	1.00000	1.1	

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Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3815.D
Report Date: 12-Jun-2015 08:09

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448	(0.921)	7640	1.00000	0.99(a)	
83 1,3,5-Trimethylbenzene	105	14.627	14.627	(0.933)	21007	1.00000	1.00	
84 2-Chlorotoluene	91	14.555	14.556	(0.928)	17661	1.00000	1.0	
85 1,2,3-Trichloropropane	75	14.627	14.627	(0.933)	6828	1.00000	1.1	
86 4-Chlorotoluene	91	14.791	14.785	(0.943)	21566	1.00000	1.2	
87 tert-Butylbenzene	119	15.063	15.063	(0.960)	21137	1.00000	1.0	
88 Pentachloroethane	117	15.077	15.085	(0.961)	4522	1.00000	0.99(a)	
89 1,2,4-Trimethylbenzene	105	15.156	15.156	(0.966)	21949	1.00000	1.0	
90 P-Isopropyltoluene	119	15.499	15.500	(0.988)	24800	1.00000	1.1	
91 1,3-Dichlorobenzene	146	15.585	15.585	(0.994)	14692	1.00000	1.1	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	447094	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707	(1.001)	15725	1.00000	1.1	
94 N-Butylbenzene	91	16.064	16.064	(1.024)	24189	1.00000	1.1	
95 sec-Butylbenzene	105	15.306	15.306	(0.976)	27762	1.00000	1.1	
96 1,2-Dichlorobenzene	146	16.257	16.257	(1.036)	14045	1.00000	1.1	
97 1,2-Dibromo-3-Chloropropane	75	17.287	17.294	(1.102)	1560	1.00000	1.00(M)	M9
98 1,3,5-Trichlorobenzene	180	17.337	17.337	(1.105)	13350	1.00000	1.2	
99 Hexachlorobutadiene	225	18.116	18.117	(1.155)	5271	1.00000	1.2	
100 1,2,4-Trichlorobenzene	180	18.145	18.145	(1.157)	11904	1.00000	1.2	
101 1,2,3-Trimethylbenzene	105	15.742	15.743	(1.004)	23905	1.00000	1.0	
102 Naphthalene	128	18.552	18.553	(1.183)	23807	1.00000	0.98(a)	
103 1,2,3-Trichlorobenzene	180	18.788	18.789	(1.198)	12260	1.00000	1.2	
104 Methyl Acetate	43	4.917	4.910	(0.638)	3811	1.00000	0.83(a)	
105 Methylcyclohexane	83	8.342	8.342	(1.083)	9049	1.00000	1.0	

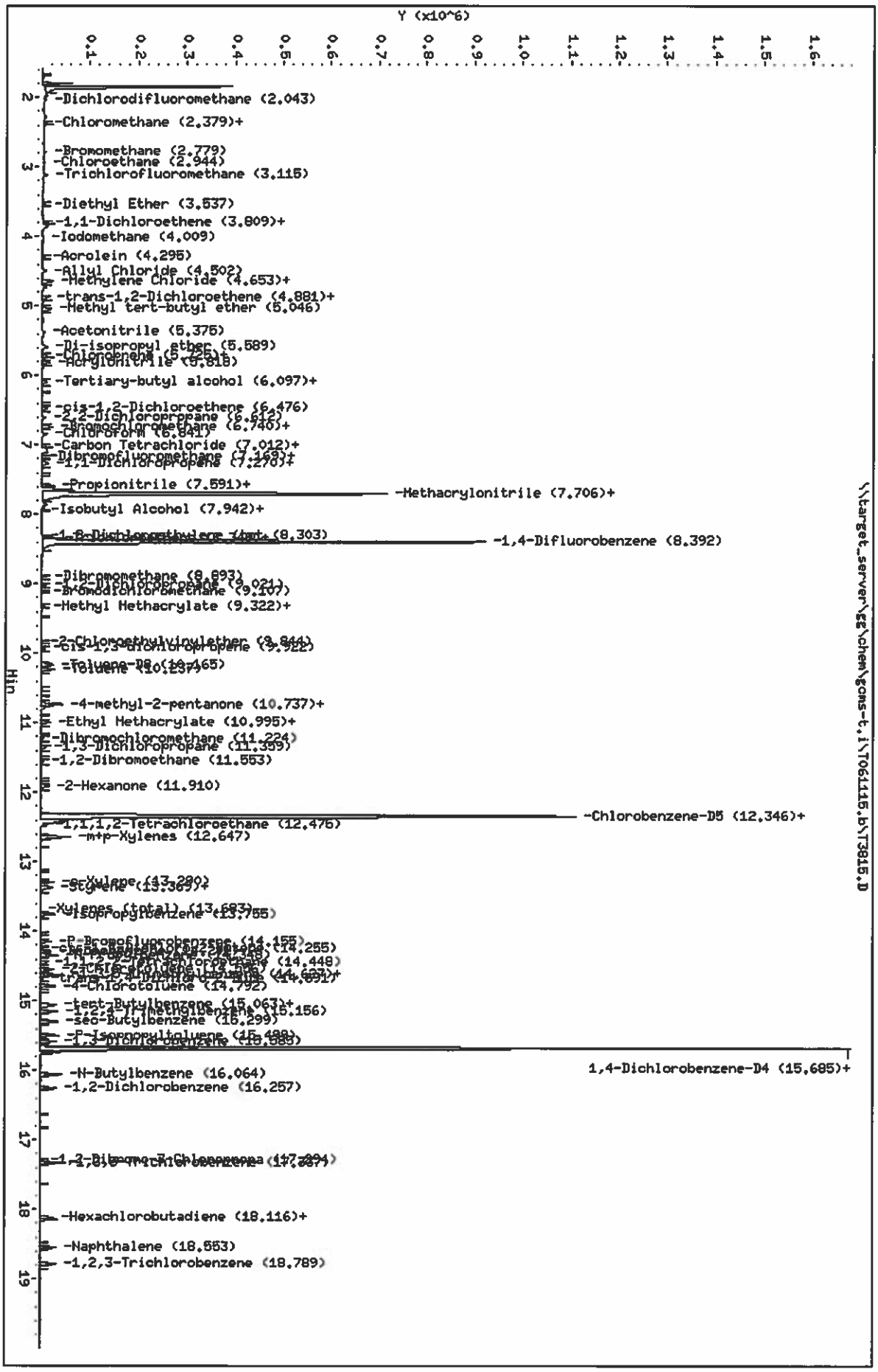
REC
12:51 pm, Jun 25, 2015

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-t.i\T061115.b\T3815.D
Date : 11-JUN-2015 18:22
Client ID: Initial Calibration
Sample Info: WG164633-1
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-t.i
Operator: EHE
Column diameter: 0.18



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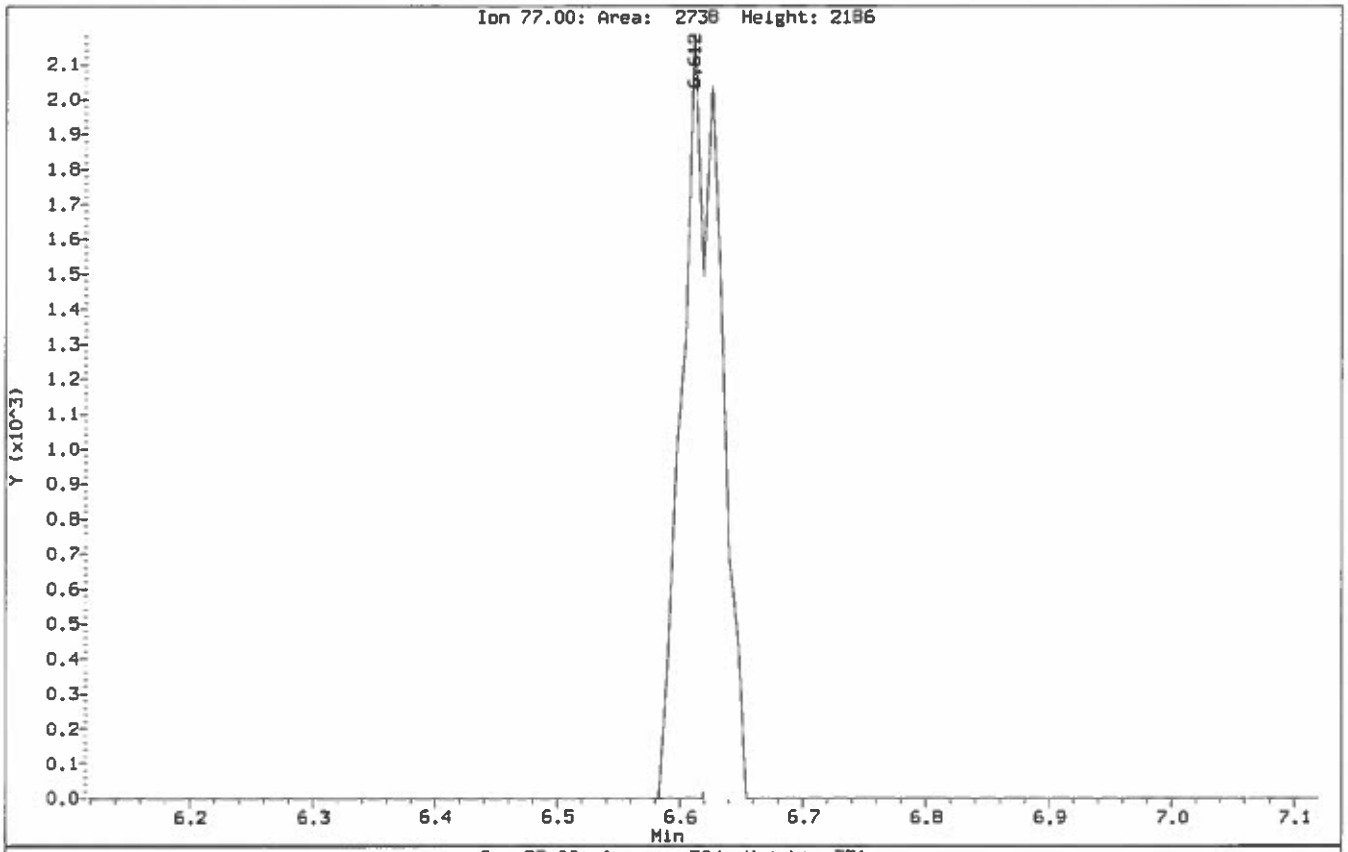
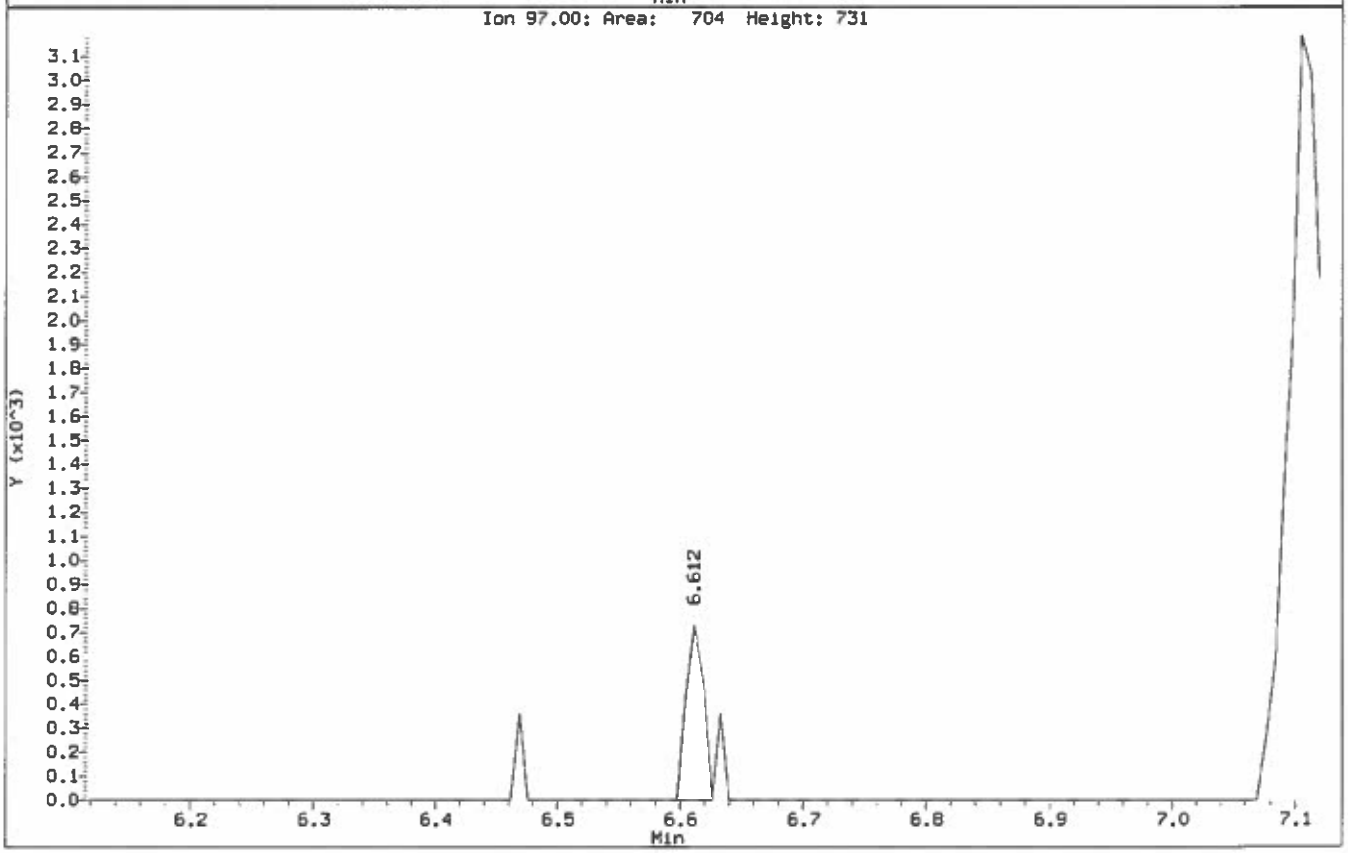
Injection Date: 11-JUN-2015 18:22
Instrument: gcms-t.i
Client Sample ID:

Compound: 2,2-Dichloropropane
CAS Number: 594-20-7

BEFORE MANUAL INTEGRATION





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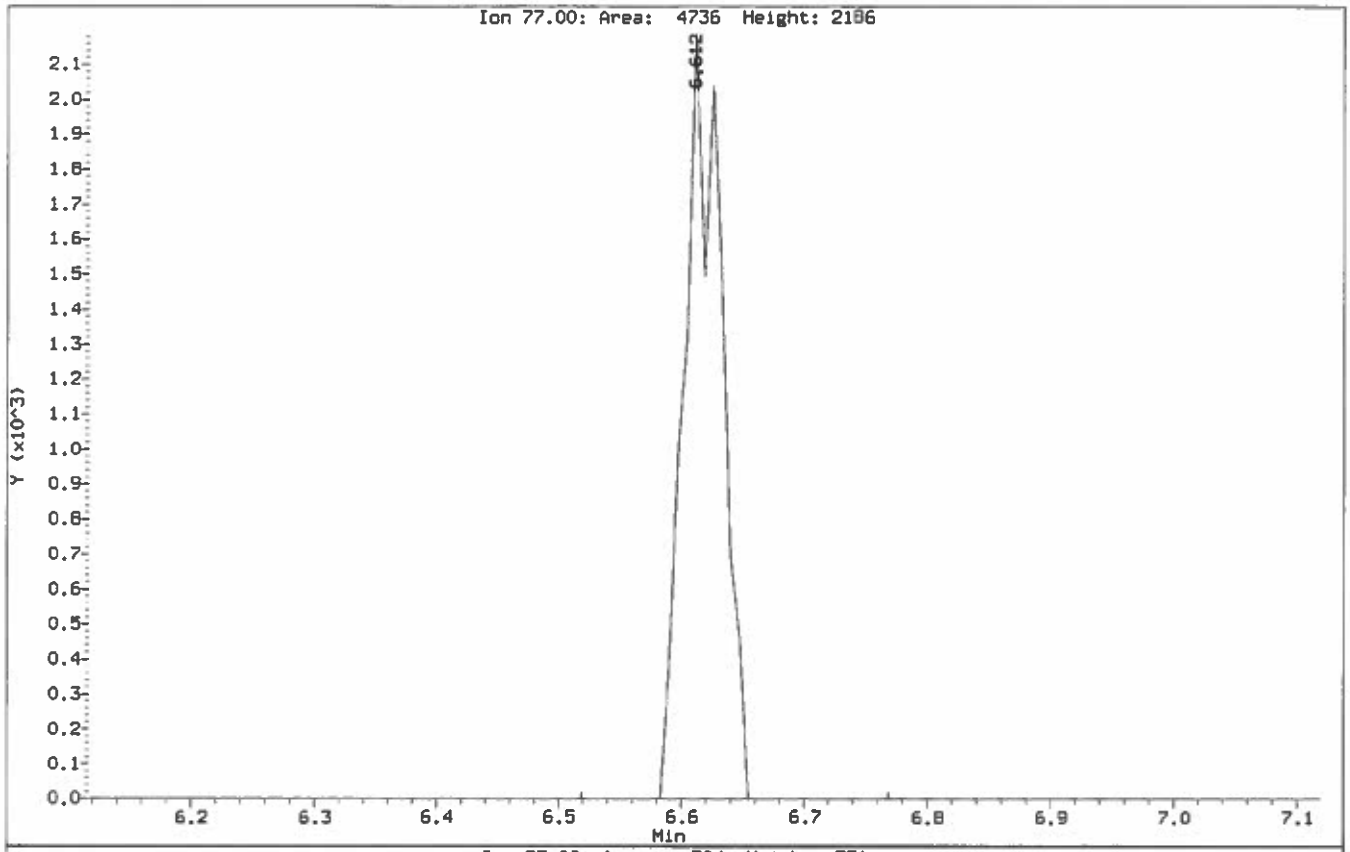
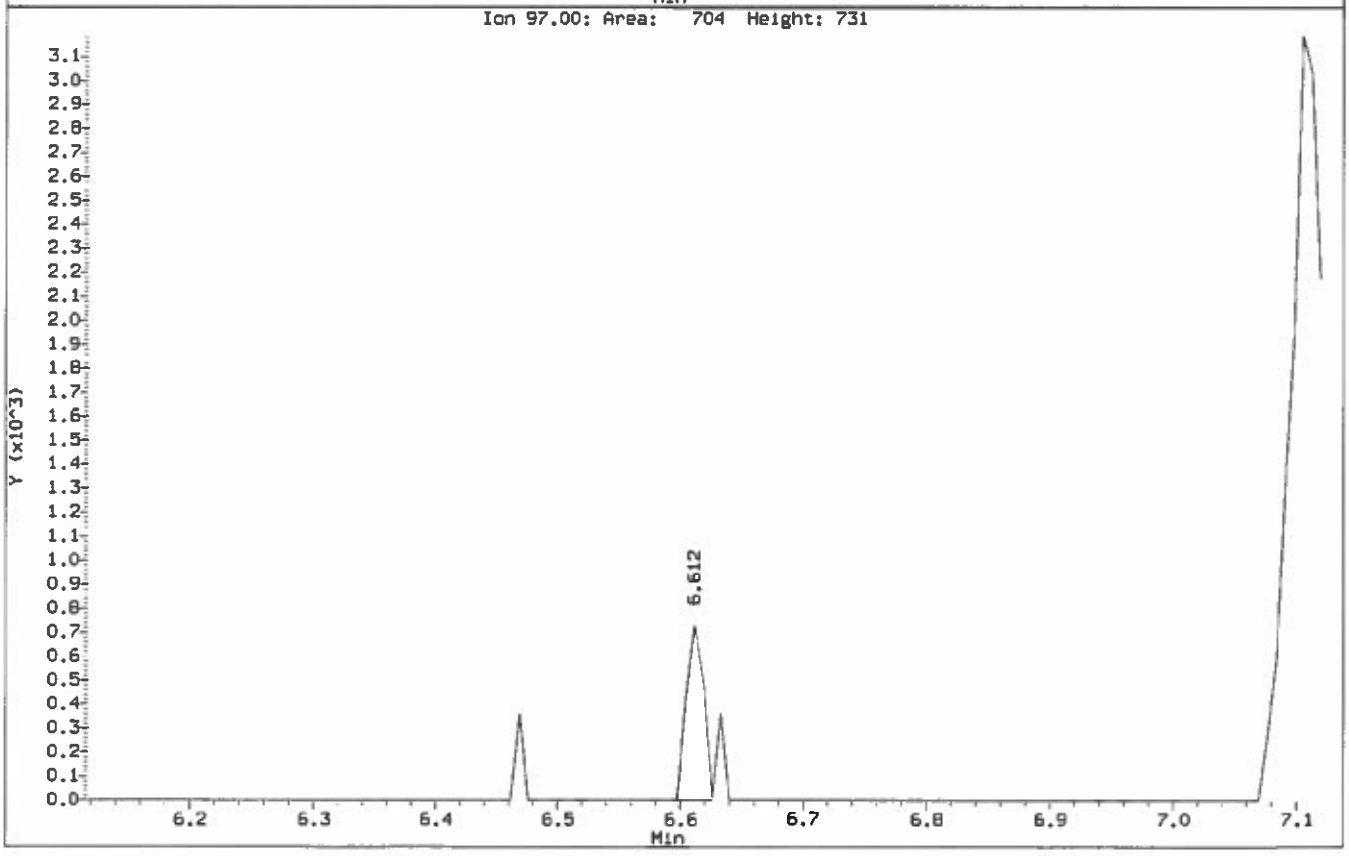
Client Sample ID:

Compound: 2,2-Dichloropropane
CAS Number: 594-20-7

AFTER MANUAL INTEGRATION





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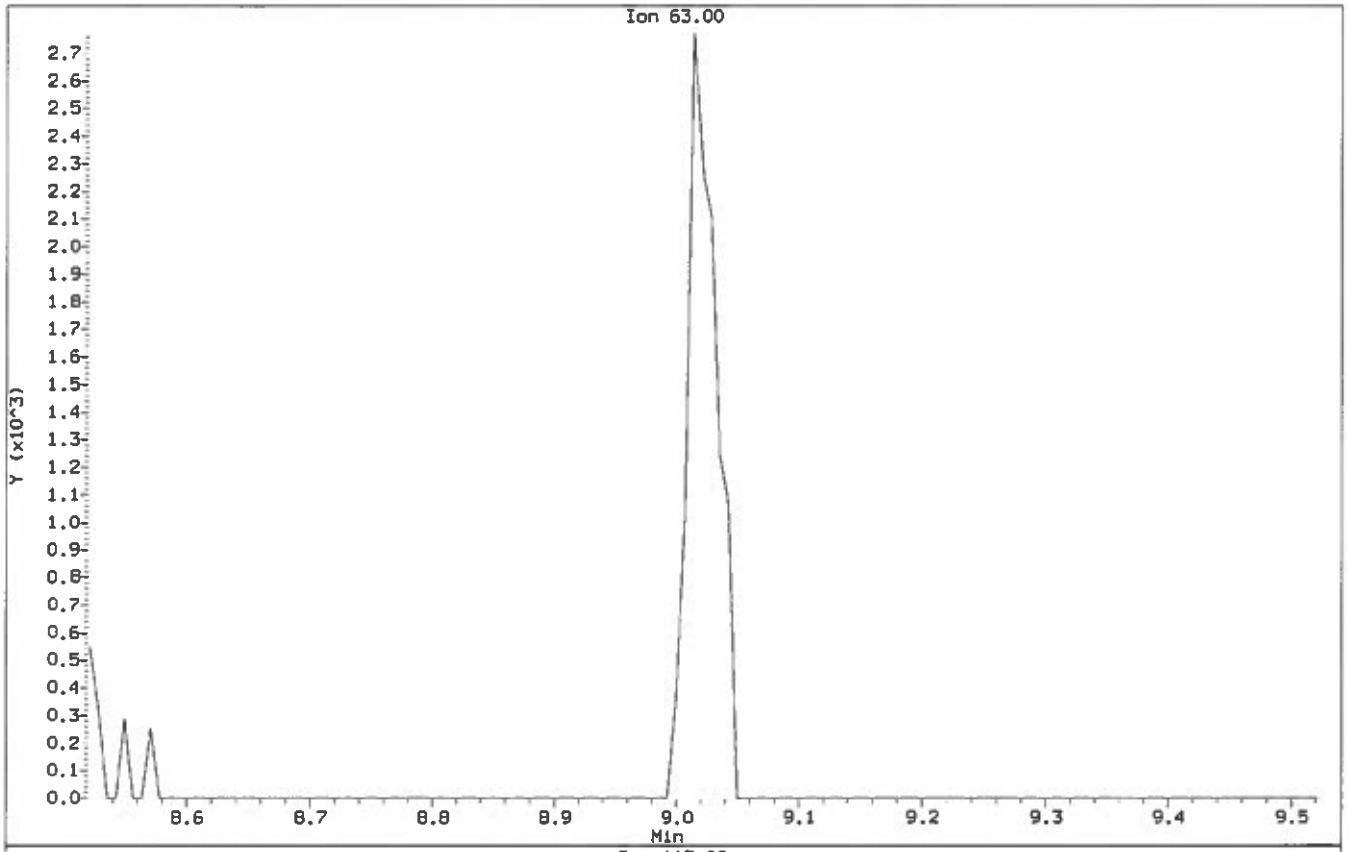
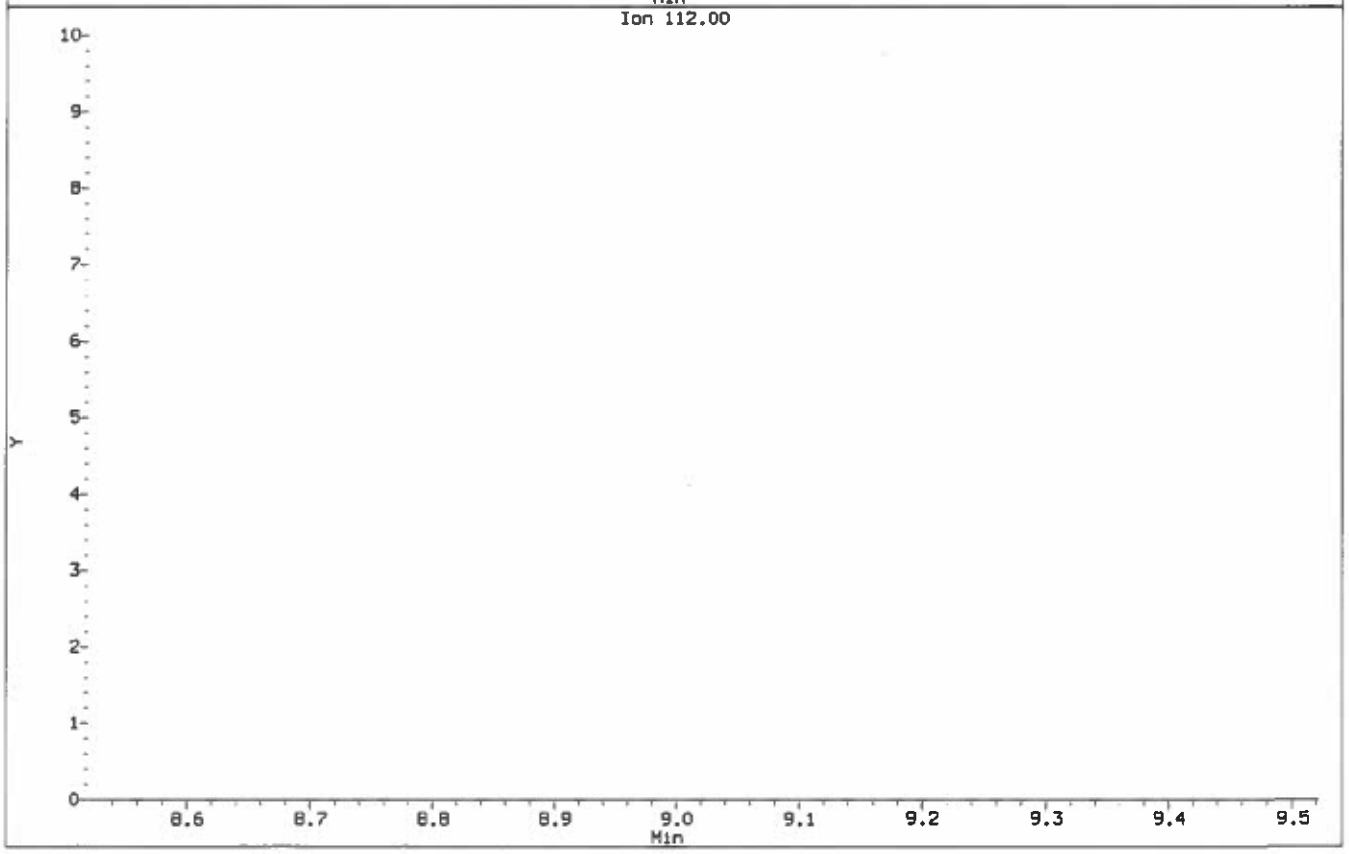
Injection Date: 11-JUN-2015 18:22
Instrument: gcms-t.i
Client Sample ID:

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

BEFORE MANUAL INTEGRATION





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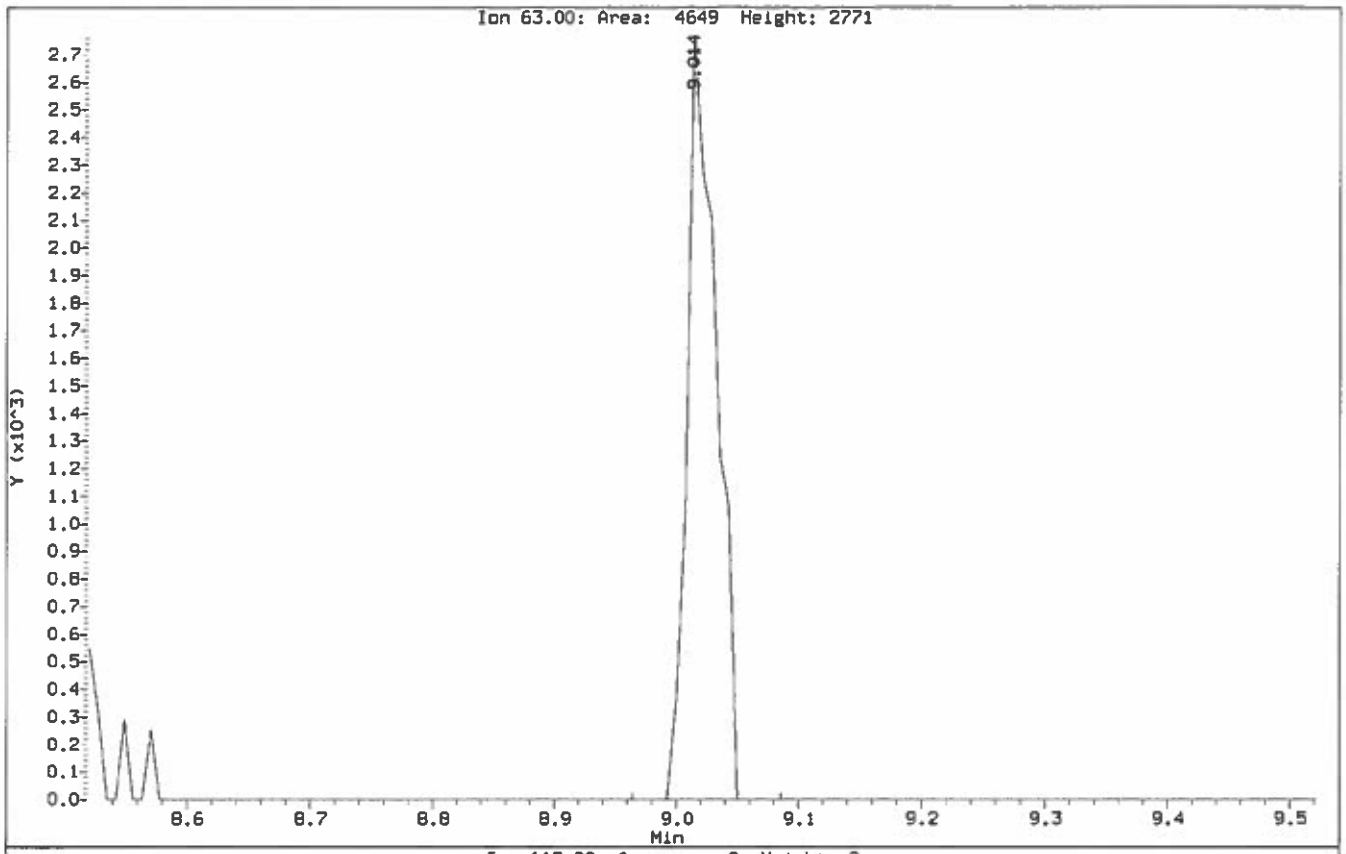
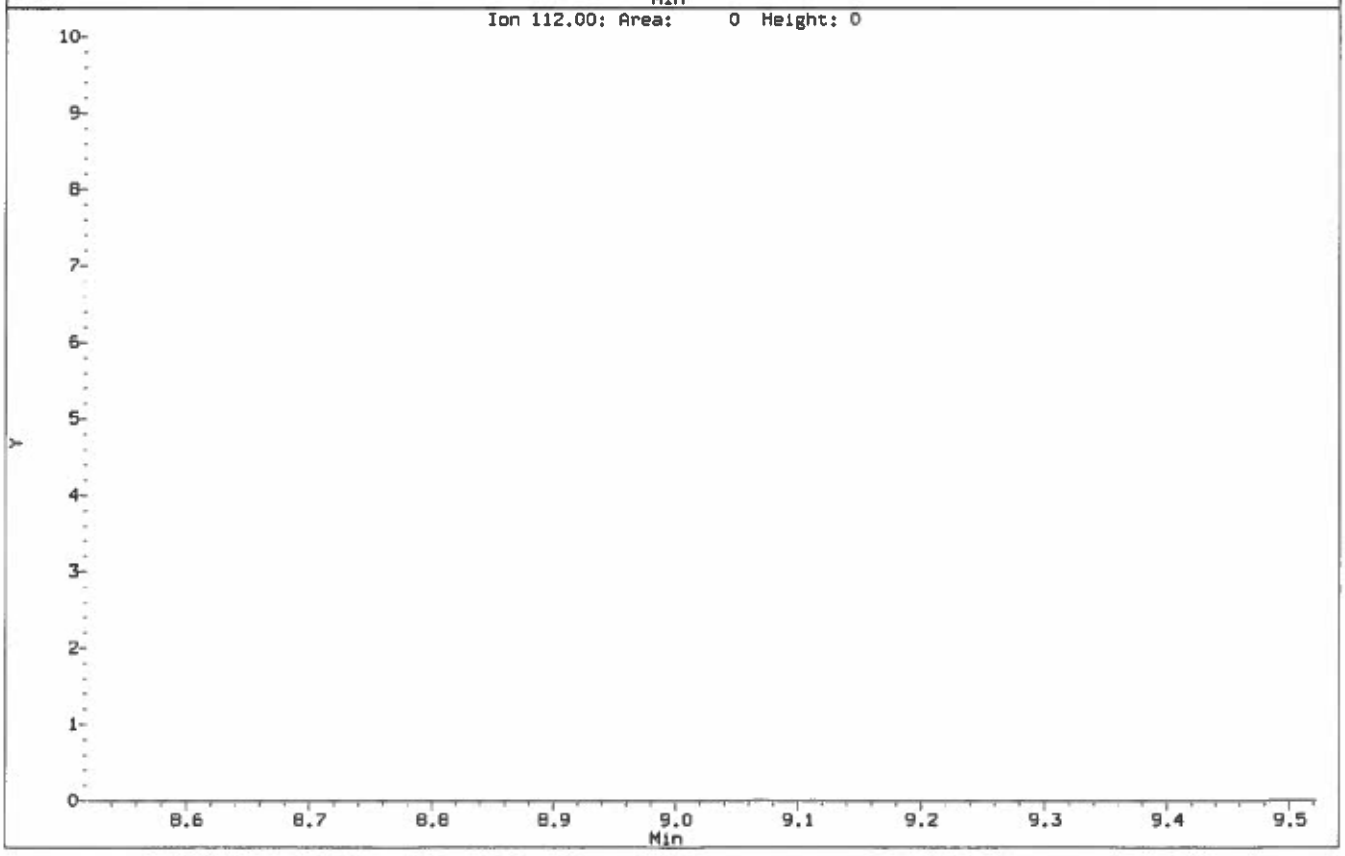
Instrument: gcms-t.i
Client Sample ID:

Compound: 1,2-Dichloropropane
CAS Number: 78-87-5

AFTER MANUAL INTEGRATION





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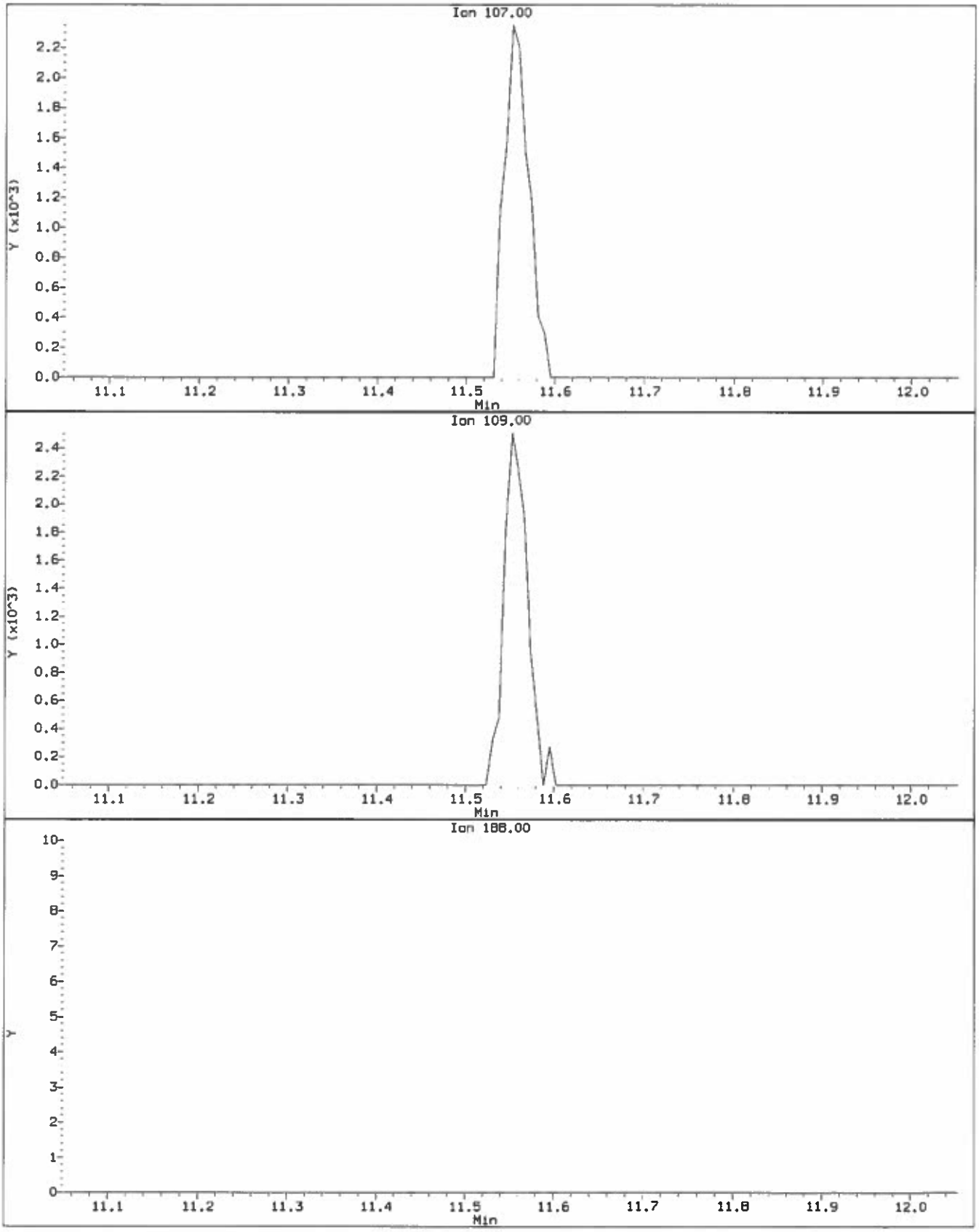
Injection Date: 11-JUN-2015 18:22
Instrument: gcms-t.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

BEFORE MANUAL INTEGRATION



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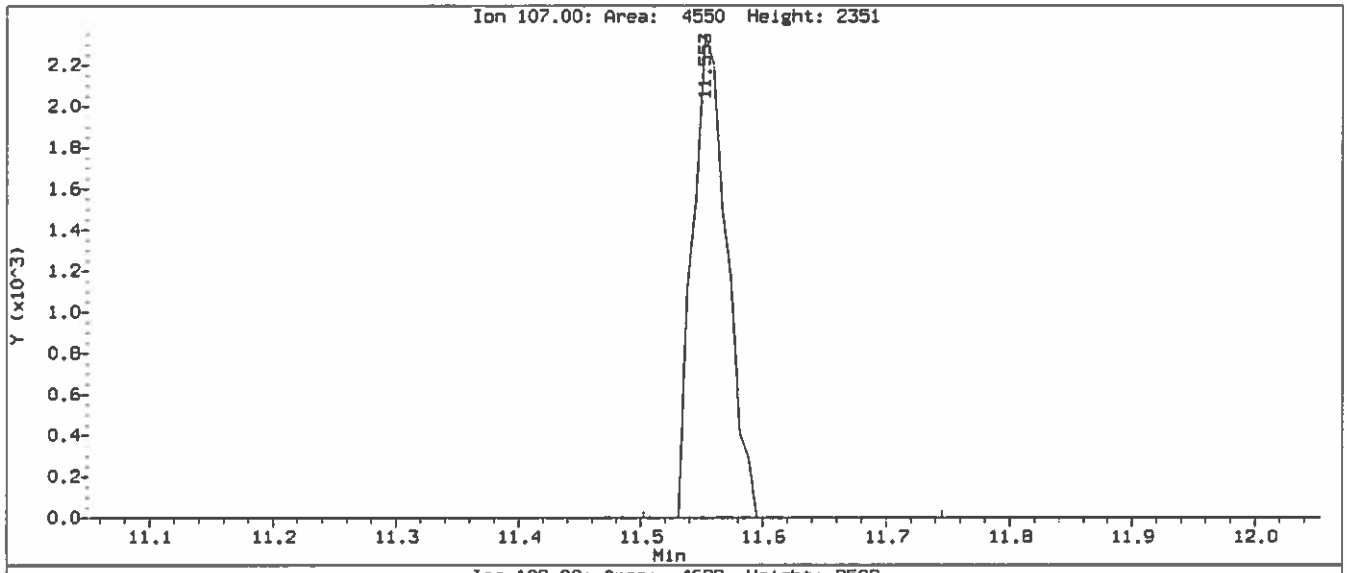
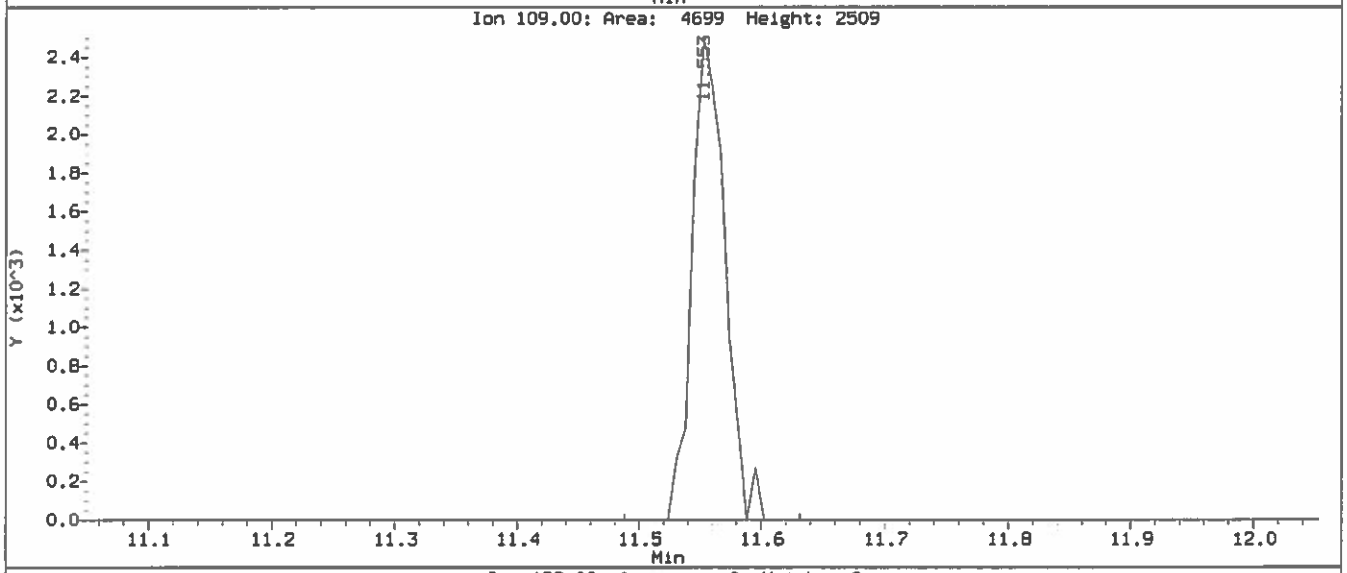
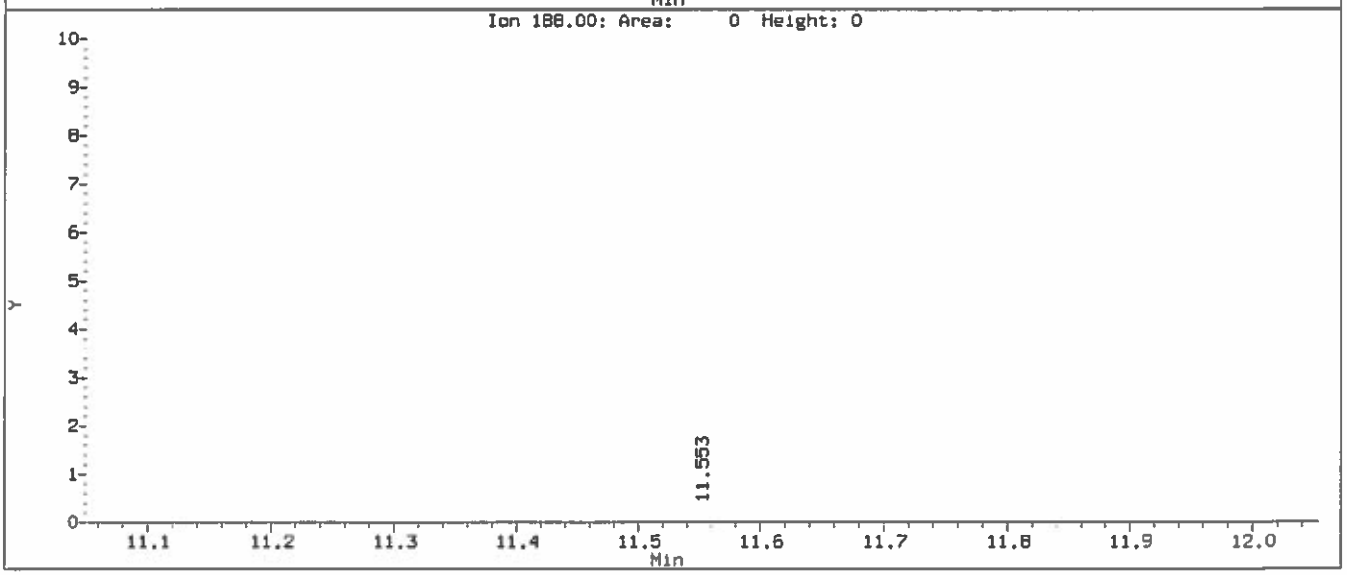
Injection Date: 11-JUN-2015 18:22
Instrument: gcms-t.i
Client Sample ID:

Compound: 1,2-Dibromoethane
CAS Number: 106-93-4

AFTER MANUAL INTEGRATION







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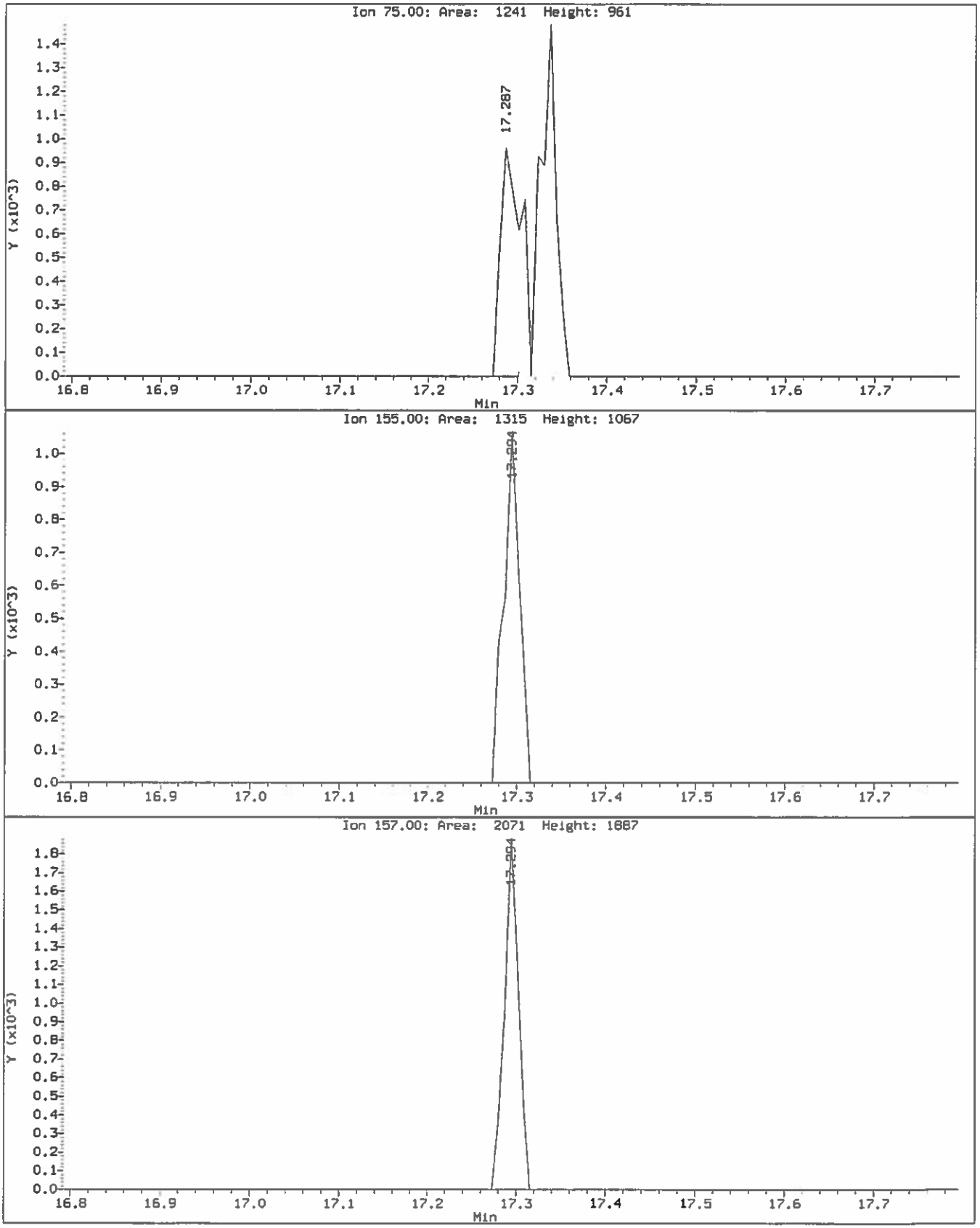
Injection Date: 11-JUN-2015 18:22
Instrument: gcms-t.i
Client Sample ID:

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

BEFORE MANUAL INTEGRATION



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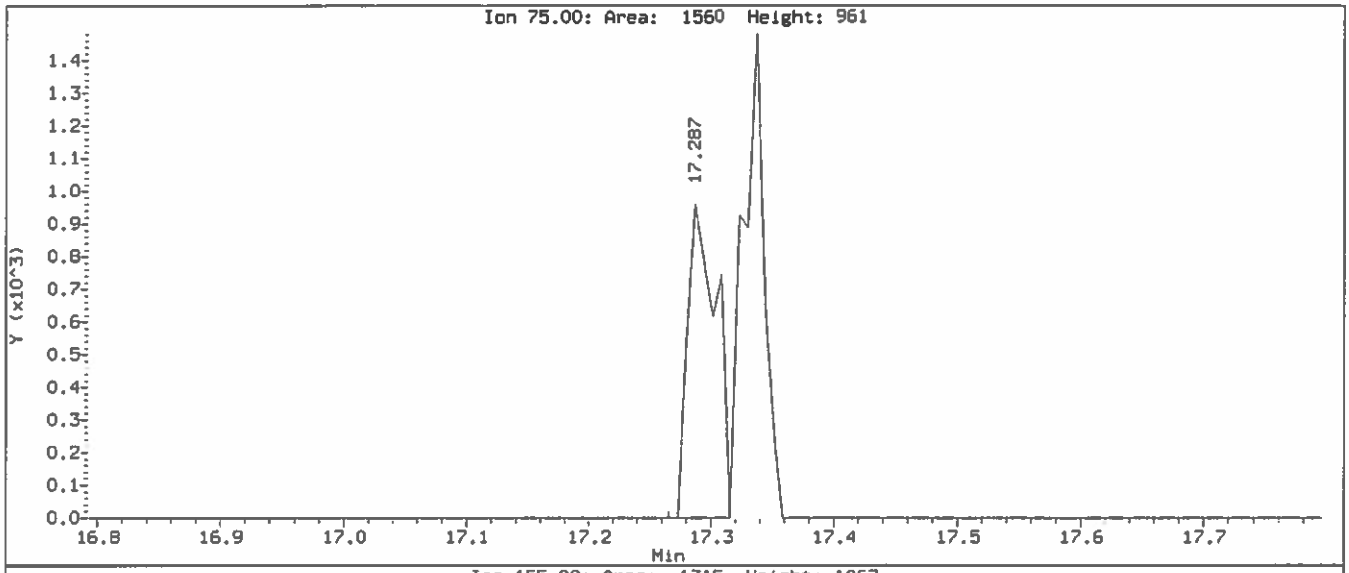
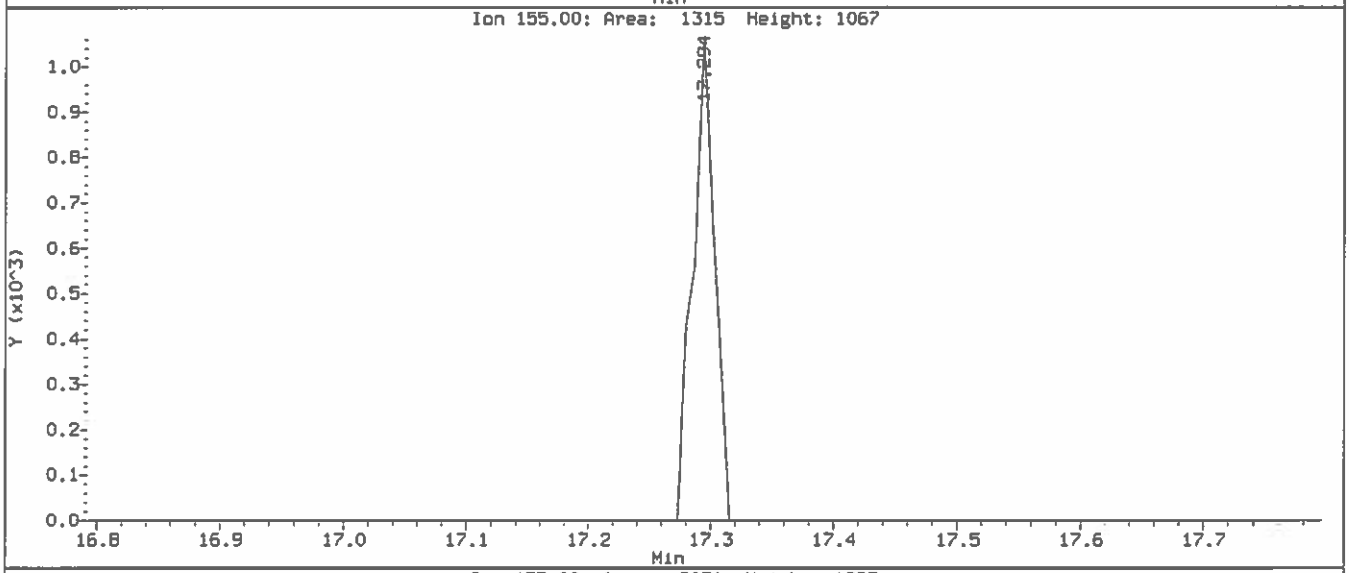
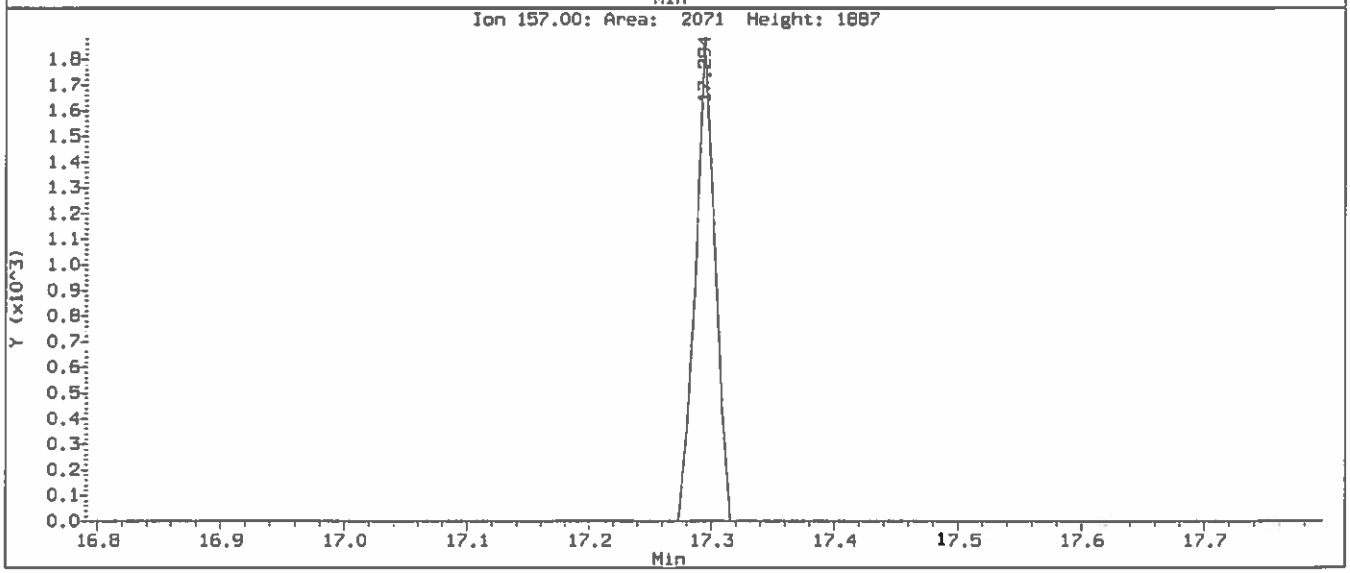
Injection Date: 11-JUN-2015 18:22
Instrument: gcms-t.i
Client Sample ID:

Compound: 1,2-Dibromo-3-Chloropropane
CAS Number: 96-12-8

AFTER MANUAL INTEGRATION







Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3817A.D
Report Date: 12-Jun-2015 08:25

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T061115.b\T3817A.D
Lab Smp Id: WG164633-7 Client Smp ID: Independent Source
Inj Date : 11-JUN-2015 19:33 MS Autotune Date: 26-FEB-2015 07:23
Operator : EME Inst ID: gcms-t.i
Smp Info : WG164633-7
Misc Info : WG164633,WG164633-4
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061115.b\T826AN06.m
Meth Date : 12-Jun-2015 08:06 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D
Als bottle: 12 QC Sample: INDSOURCE
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)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.042	2.043	(0.265)	199484	51.5151	51.5	
2 Chloromethane	50	2.285	2.279	(0.297)	297675	52.2873	52.3	
3 Vinyl chloride	62	2.378	2.379	(0.309)	274412	49.0124	49.0	
4 Bromomethane	94	2.779	2.779	(0.361)	172430	50.6651	50.7	
5 Chloroethane	64	2.936	2.937	(0.381)	159439	46.8436	46.8	
6 Trichlorofluoromethane	101	3.115	3.115	(0.404)	355570	47.6459	47.6	
7 Diethyl Ether	59	3.537	3.537	(0.459)	233463	48.8343	48.8	
8 Tertiary-butyl alcohol	59	6.089	6.090	(0.790)	745916	261.432	261	
9 1,1-Dichloroethene	96	3.801	3.802	(0.493)	259889	47.1780	47.2	
10 Carbon Disulfide	76	3.844	3.845	(0.499)	864860	58.2395	58.2	
11 Freon-113	151	3.866	3.866	(0.502)	159473	42.3085	42.3	
12 Iodomethane	142	4.009	4.009	(0.520)	194494	43.8476	43.8	
13 Acrolein	56	4.295	4.295	(0.557)	341585	272.816	273	
14 Methylene Chloride	84	4.652	4.653	(0.604)	314467	47.0586	47.0	
15 Acetone	43	4.731	4.717	(0.614)	88710	46.7194	46.7	
16 Isobutyl Alcohol	43	7.898	7.899	(1.025)	157722	937.934	938	
17 trans-1,2-Dichloroethene	96	4.881	4.889	(0.633)	286704	48.5000	48.5	
18 Allyl Chloride	41	4.495	4.495	(0.583)	343717	46.8858	46.9	
19 Methyl tert-butyl ether	73	5.045	5.046	(0.655)	1594637	109.718	110	
20 Acetonitrile	39	5.374	5.375	(0.698)	71597	483.021	483	
21 Di-isopropyl ether	45	5.589	5.589	(0.725)	769919	52.3383	52.3	
22 Chloroprene	53	5.718	5.711	(0.742)	371404	49.0453	49.0	
23 Propionitrile	54	7.627	7.620	(0.990)	517463	557.835	558	
24 Methacrylonitrile	41	7.655	7.656	(0.994)	1960178	548.327	548	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3817A.D
Report Date: 12-Jun-2015 08:25

	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	5.746	5.747	(0.746)	487816	49.4544	49.4	
	26 Acrylonitrile	52	5.810	5.811	(0.754)	635513	276.365	276	
	27 Ethyl tertiary-butyl ether	59	6.089	6.090	(0.790)	745916	52.2865	52.3	
	28 Vinyl Acetate	43	6.104	6.104	(0.727)	619404	43.9604	44.0	
	29 cis-1,2-Dichloroethene	96	6.475	6.476	(0.840)	319569	43.6588	43.6	
M	30 1,2-Dichloroethylene (total)	96				606273	92.1587	92.2	
	31 Methyl Methacrylate	41	9.314	9.315	(1.110)	262215	57.0151	57.0	
	32 2,2-Dichloropropane	77	6.618	6.619	(0.859)	265708	41.3035	41.3	
	33 Bromochloromethane	128	6.740	6.740	(0.875)	145772	45.1223	45.1	
	34 Chloroform	83	6.847	6.848	(0.889)	462277	46.3275	46.3	
	35 Carbon Tetrachloride	117	7.019	7.019	(0.836)	309430	47.7088	47.7	
	36 Tetrahydrofuran	42	7.047	7.041	(0.915)	99143	53.7074	53.7	
$	37 Dibromofluoromethane	113	7.083	7.084	(0.919)	293072	50.5991	50.6	
	38 1,1,1-Trichloroethane	97	7.105	7.105	(0.922)	375329	46.9402	46.9	
	39 1,1-Dichloropropene	75	7.269	7.270	(0.866)	381671	48.8550	48.8	
	40 2-Butanone	43	7.248	7.241	(0.941)	141074	47.8230	47.8	
	41 Benzene	78	7.591	7.591	(0.905)	1167197	49.7150	49.7	
*	42 Pentafluorobenzene	168	7.705	7.706	(1.000)	632200	50.0000		
	43 Cyclohexane	56	6.740	6.740	(0.875)	373282	46.1804	46.2	
	44 Ethyl Methacrylate	69	10.994	10.995	(1.310)	438626	55.2516	55.2	
$	45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.008)	310808	50.5003	50.5	
	46 Tertiary-amyl methyl ether	73	7.755	7.749	(1.006)	704096	51.6683	51.7	
	47 1,2-Dichloroethane	62	7.855	7.856	(0.936)	350103	47.6602	47.7	
	48 Trichloroethene	95	8.349	8.349	(0.995)	288570	47.9126	47.9	
*	49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	978663	50.0000		
	50 Dibromomethane	93	8.892	8.886	(1.060)	186606	47.8815	47.9	
	51 1,2-Dichloropropane	63	9.021	9.021	(1.075)	285821	48.7490	48.7	
	52 Bromodichloromethane	83	9.107	9.107	(1.085)	372751	50.3818	50.4	
	53 cis-1,3-dichloropropene	75	9.929	9.922	(1.183)	458458	51.8215	51.8	
	54 1,4-Dioxane	88	9.364	9.357	(1.116)	55609	528.366	528(R)	
$	55 Toluene-D8	98	10.165	10.165	(1.211)	1149166	52.6049	52.6	
	56 2-Chloroethylvinylether	63	9.850	9.851	(1.174)	88326	85.8539	85.8(R)	
	57 Toluene	92	10.236	10.237	(1.220)	723307	48.7287	48.7	
	58 4-methyl-2-pentanone	43	10.730	10.730	(1.279)	291257	54.4696	54.5	
	59 Tetrachloroethene	164	10.737	10.737	(0.870)	257346	49.4135	49.4	
	60 trans-1,3-Dichloropropene	75	10.780	10.780	(1.285)	404273	54.9738	55.0	
	61 1,1,2-Trichloroethane	83	10.987	10.988	(1.309)	244599	50.2437	50.2	
	62 Dibromochloromethane	129	11.230	11.224	(0.910)	311182	52.3268	52.3	
	63 1,3-Dichloropropane	76	11.359	11.360	(0.920)	500781	51.0646	51.1	
	64 1,2-Dibromoethane	107	11.552	11.553	(1.377)	307611	51.5521	51.6	
	65 2-Hexanone	43	11.902	11.903	(0.964)	205498	55.3626	55.4	
*	66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	860913	50.0000		
	67 Chlorobenzene	112	12.374	12.368	(1.002)	829868	48.9842	49.0	
	68 1-Chlorohexane	91	12.353	12.353	(1.001)	359178	42.9302	42.9	
	69 Ethylbenzene	106	12.417	12.418	(1.006)	440749	47.8816	47.9	
	70 1,1,1,2-Tetrachloroethane	131	12.474	12.475	(1.010)	274364	49.6784	49.7	
M	71 Xylenes (total)	106				1566093	144.899	145	
	72 m+p-Xylenes	106	12.646	12.647	(1.024)	1043433	94.9656	95.0	
	73 o-Xylene	106	13.290	13.290	(1.076)	522660	49.9335	49.9	
	74 Styrene	104	13.368	13.369	(1.083)	894634	50.2989	50.3	
	75 Bromoform	173	13.397	13.397	(1.085)	240688	54.7046	54.7	
	76 Isopropylbenzene	105	13.754	13.755	(0.877)	1263183	50.9691	51.0	
$	77 P-Bromofluorobenzene	95	14.148	14.148	(1.686)	418089	48.0997	48.1	
	78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248	(0.908)	111072	53.5283	53.5	

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3817A.D
Report Date: 12-Jun-2015 08:25

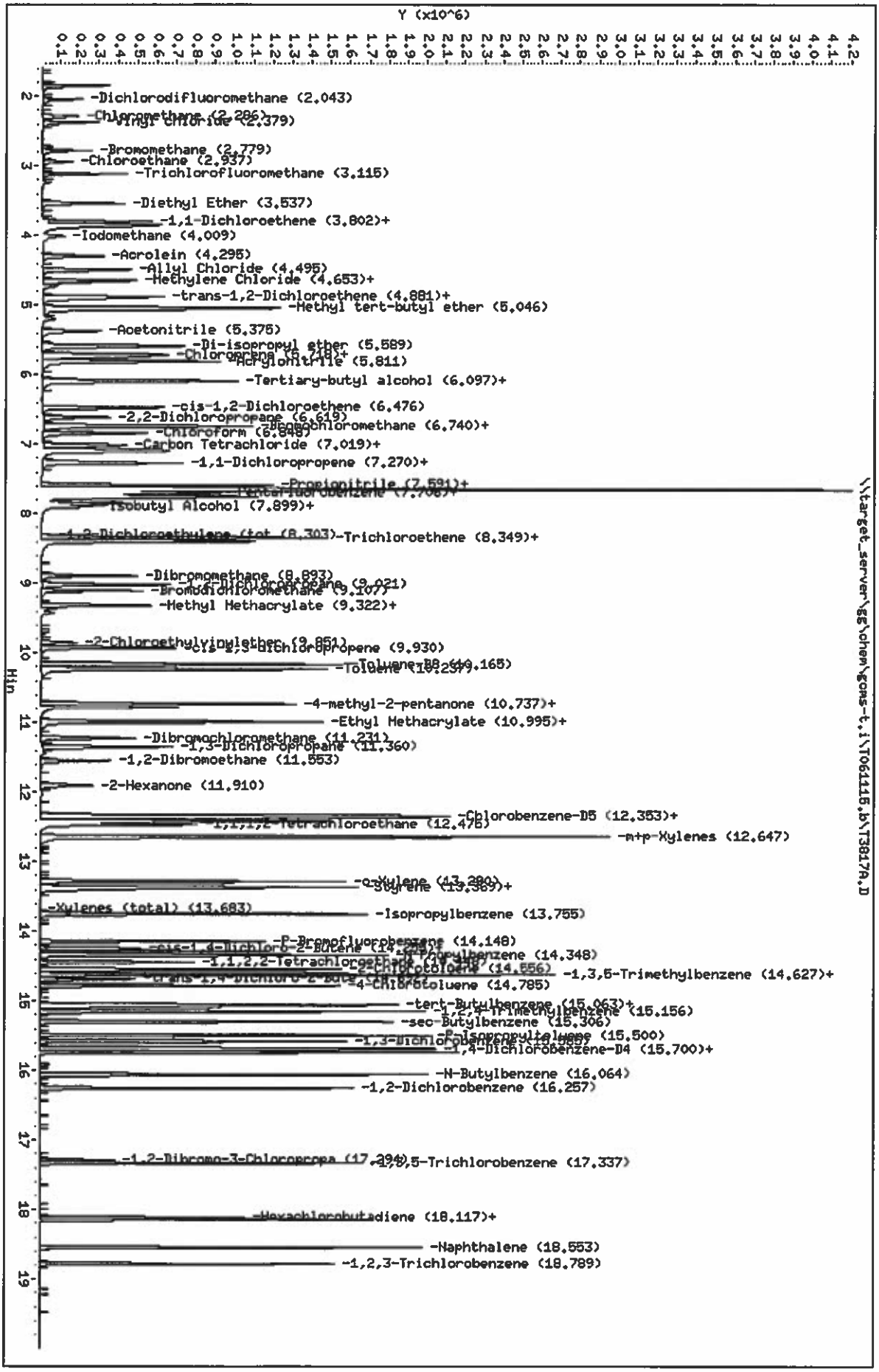
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692	(0.937)	96496	55.5144	55.5	
80 Bromobenzene	156	14.291	14.291	(0.911)	364622	49.2211	49.2	
81 N-Propylbenzene	91	14.348	14.348	(0.915)	1496216	51.5130	51.5	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448	(0.921)	428841	53.3988	53.4	
83 1,3,5-Trimethylbenzene	105	14.627	14.627	(0.933)	1076624	49.0127	49.0	
84 2-Chlorotoluene	91	14.555	14.556	(0.928)	907371	50.9287	50.9	
85 1,2,3-Trichloropropane	75	14.627	14.627	(0.933)	350771	54.3700	54.4	
86 4-Chlorotoluene	91	14.784	14.785	(0.943)	951742	48.7705	48.8	
87 tert-Butylbenzene	119	15.063	15.063	(0.960)	1101310	50.3446	50.3	
88 Pentachloroethane	117	15.084	15.085	(0.962)	221672	46.4813	46.5	
89 1,2,4-Trimethylbenzene	105	15.156	15.156	(0.966)	1132464	51.3210	51.3	
90 P-Isopropyltoluene	119	15.499	15.500	(0.988)	1210458	50.3312	50.3	
91 1,3-Dichlorobenzene	146	15.585	15.585	(0.994)	674316	48.5984	48.6	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	467309	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707	(1.001)	696242	48.4966	48.5	
94 N-Butylbenzene	91	16.064	16.064	(1.024)	1059170	47.9339	47.9	
95 sec-Butylbenzene	105	15.306	15.306	(0.976)	1365691	50.4909	50.5	
96 1,2-Dichlorobenzene	146	16.257	16.257	(1.036)	660687	49.0122	49.0	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294	(1.103)	89208	54.6958	54.7	
98 1,3,5-Trichlorobenzene	180	17.337	17.337	(1.105)	516931	45.6936	45.7	
99 Hexachlorobutadiene	225	18.116	18.117	(1.155)	200271	45.3579	45.4	
100 1,2,4-Trichlorobenzene	180	18.145	18.145	(1.157)	507484	48.3690	48.4	
101 1,2,3-Trimethylbenzene	105	15.742	15.743	(1.004)	1167248	49.4987	49.5	
102 Naphthalene	128	18.552	18.553	(1.183)	1453427	56.9850	57.0	
103 1,2,3-Trichlorobenzene	180	18.788	18.789	(1.198)	481741	46.2836	46.3	
104 Methyl Acetate	43	4.910	4.910	(0.637)	281379	53.8458	53.8	
105 Methylcyclohexane	83	8.342	8.342	(1.083)	441096	44.9525	45.0	
M 106 Total Alkylbenzenes	100				8441933	350.947	351	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\T3817A.D
Date : 11-JUN-2015 19:33
Client ID: Independent Source
Sample Info: WG164633-7
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-t.i
Operator: EHE
Column diameter: 0.18



Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, 1 **SDG:** SI4000
Lab ID : WG164674-4 **Analytical Date:** 06/12/15 08:38
Lab File ID : T3830.D **Instrument ID:** GCMS-T
Initial Calibration Date(s): 06/11/15 13:22 06/11/15 18:22 **Column ID:**

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type	
1 Dichlorodifluoromethane	0.30626	0.24148	0.24148	0.010	-21.15330	20.00000	Averaged	*
2 Chloromethane	0.45026	0.37857	0.37857	0.100	-15.92264	20.00000	Averaged	
3 Vinyl chloride	0.44281	0.39925	0.39925	0.010	-9.83644	20.00000	Averaged	
4 Bromomethane	0.26917	0.25195	0.25195	0.010	-6.39648	20.00000	Averaged	
5 Chloroethane	0.26919	0.25727	0.25727	0.010	-4.42676	20.00000	Averaged	
6 Trichlorofluoromethane	0.59022	0.56465	0.56465	0.010	-4.33176	20.00000	Averaged	
9 1,1-Dichloroethene	0.43568	0.40310	0.40310	0.010	-7.47655	20.00000	Averaged	
10 Carbon Disulfide	1.17447	1.13348	1.13348	0.010	-3.49077	20.00000	Averaged	
11 Freon-113	0.29811	0.29357	0.29357	0.010	-1.52264	20.00000	Averaged	
14 Methylene Chloride	50.00000	49.73330	0.52573	0.010	-0.53340	20.00000	Linear	
15 Acetone	0.15017	0.16315	0.16315	0.010	8.63972	20.00000	Averaged	
17 trans-1,2-Dichloroethene	0.46753	0.45447	0.45447	0.010	-2.79348	20.00000	Averaged	
19 Methyl tert-butyl ether	1.14948	1.23517	1.23517	0.010	7.45486	20.00000	Averaged	
25 1,1-Dichloroethane	0.78013	0.78629	0.78629	0.100	0.79007	20.00000	Averaged	
29 cis-1,2-Dichloroethene	0.57891	0.57654	0.57654	0.010	-0.40941	20.00000	Averaged	
30 1,2-Dichloroethylene (total	++++	1.03100	1.03100	0.010	++++	20.00000	Averaged	*
34 Chloroform	0.78919	0.78829	0.78829	0.010	-0.11398	20.00000	Averaged	
35 Carbon Tetrachloride	0.33136	0.33231	0.33231	0.010	0.28702	20.00000	Averaged	
38 1,1,1-Trichloroethane	0.63239	0.64502	0.64502	0.010	1.99801	20.00000	Averaged	
40 2-Butanone	250	266	0.24270	0.010	6.45362	20.00000	Linear	
41 Benzene	1.19948	1.22425	1.22425	0.010	2.06517	20.00000	Averaged	
43 Cyclohexane	0.63928	0.68649	0.68649	0.010	7.38369	20.00000	Averaged	
47 1,2-Dichloroethane	0.37530	0.37425	0.37425	0.010	-0.27917	20.00000	Averaged	
48 Trichloroethene	0.30771	0.34578	0.34578	0.010	12.37409	20.00000	Averaged	
51 1,2-Dichloropropane	0.29955	0.31098	0.31098	0.010	3.81823	20.00000	Averaged	
52 Bromodichloromethane	0.37799	0.38378	0.38378	0.010	1.53123	20.00000	Averaged	
53 cis-1,3-dichloropropene	0.45199	0.48375	0.48375	0.010	7.02682	20.00000	Averaged	
57 Toluene	0.75836	0.78048	0.78048	0.010	2.91640	20.00000	Averaged	
58 4-methyl-2-pentanone	0.27319	0.29874	0.29874	0.010	9.35305	20.00000	Averaged	
59 Tetrachloroethene	0.30247	0.29738	0.29738	0.010	-1.68191	20.00000	Averaged	
60 trans-1,3-Dichloropropene	0.37571	0.40902	0.40902	0.010	8.86419	20.00000	Averaged	
61 1,1,2-Trichloroethane	0.24872	0.25511	0.25511	0.010	2.56785	20.00000	Averaged	
62 Dibromochloromethane	0.34538	0.37251	0.37251	0.010	7.85291	20.00000	Averaged	
64 1,2-Dibromoethane	0.30485	0.31731	0.31731	0.010	4.08642	20.00000	Averaged	
65 2-Hexanone	0.21558	0.23920	0.23920	0.010	10.95845	20.00000	Averaged	
67 Chlorobenzene	0.98393	0.97107	0.97107	0.300	-1.30701	20.00000	Averaged	
69 Ethylbenzene	0.53461	0.53102	0.53102	0.010	-0.67012	20.00000	Averaged	
71 Xylenes (total)	++++	0.63642	0.63642	0.010	++++	20.00000	Averaged	*
72 m+p-Xylenes	0.63813	0.64073	0.64073	0.010	0.40763	20.00000	Averaged	
73 o-Xylene	0.60791	0.62780	0.62780	0.010	3.27153	20.00000	Averaged	
74 Styrene	1.03299	1.07273	1.07273	0.010	3.84684	20.00000	Averaged	

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Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage, 1 **SDG:** SI4000
Lab ID : WG164674-4 **Analytical Date:** 06/12/15 08:38
Lab File ID : T3830.D **Instrument ID:** GCMS-T
Initial Calibration Date(s): 06/11/15 13:22 06/11/15 18:22 **Column ID:**

Compound	RRF/Amount	RF50	CCAL RRF50	Min	%D/ %Drift	Max %D/ %Drift	Curve Type
75 Bromoform	0.25553	0.27180	0.27180	0.100	6.36705	20.00000	Averaged
76 Isopropylbenzene	2.65170	2.70486	2.70486	0.010	2.00460	20.00000	Averaged
82 1,1,2,2-Tetrachloroethane	0.85927	0.91358	0.91358	0.300	6.32033	20.00000	Averaged
91 1,3-Dichlorobenzene	1.48459	1.44365	1.44365	0.010	-2.75773	20.00000	Averaged
93 1,4-Dichlorobenzene	1.53608	1.48956	1.48956	0.010	-3.02861	20.00000	Averaged
96 1,2-Dichlorobenzene	1.44231	1.43409	1.43409	0.010	-0.56947	20.00000	Averaged
97 1,2-Dibromo-3-Chloropropane	0.17451	0.17110	0.17110	0.010	-1.95307	20.00000	Averaged
100 1,2,4-Trichlorobenzene	1.12259	1.07655	1.07655	0.010	-4.10095	20.00000	Averaged
104 Methyl Acetate	0.41329	0.42586	0.42586	0.010	3.04038	20.00000	Averaged
105 Methylcyclohexane	0.77606	0.83309	0.83309	0.010	7.34922	20.00000	Averaged
37 Dibromofluoromethane	0.45809	0.49349	0.49349	0.010	7.72822	20.00000	Averaged
45 1,2-Dichloroethane-D4	0.48676	0.52397	0.52397	0.010	7.64487	20.00000	Averaged
55 Toluene-D8	1.11608	1.21375	1.21375	0.010	8.75125	20.00000	Averaged
77 P-Bromofluorobenzene	0.44408	0.44124	0.44124	0.010	-0.63918	20.00000	Averaged

*** = Compound out of QC criteria**

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P.O. Box 540, Scarborough, ME 04070
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sales@katahdinlab.com

Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3830.D
Report Date: 12-Jun-2015 13:13

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-t.i\T061215.b\T3830.D
Lab Smp Id: WG164674-4 Client Smp ID: ontinuing Calibrati
Inj Date : 12-JUN-2015 08:38 MS Autotune Date: 26-FEB-2015 07:23
Operator : EME Inst ID: gcms-t.i
Smp Info : WG164674-4,SI4000
Misc Info : WG164674,WG164633-4,SI4000-2
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061215.b\T826AN06.m
Meth Date : 12-Jun-2015 13:09 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.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	2.042	2.043	(0.265)	139793	50.0000	39.4	
2 Chloromethane	50	2.285	2.279	(0.297)	219156	50.0000	42.0	
3 Vinyl chloride	62	2.378	2.379	(0.309)	231130	50.0000	45.1	
4 Bromomethane	94	2.779	2.779	(0.361)	145856	50.0000	46.8	
5 Chloroethane	64	2.943	2.937	(0.382)	148939	50.0000	47.8	
6 Trichlorofluoromethane	101	3.122	3.115	(0.405)	326885	50.0000	47.8	
7 Diethyl Ether	59	3.537	3.537	(0.459)	229370	50.0000	52.4	
8 Tertiary-butyl alcohol	59	6.089	6.090	(0.790)	696631	250.000	267	
9 1,1-Dichloroethene	96	3.808	3.802	(0.494)	233361	50.0000	46.3	
10 Carbon Disulfide	76	3.844	3.845	(0.499)	656183	50.0000	48.2	
11 Freon-113	151	3.873	3.866	(0.503)	169951	50.0000	49.2	
12 Iodomethane	142	4.009	4.009	(0.520)	173078	50.0000	42.7	
13 Acrolein	56	4.295	4.295	(0.557)	320191	250.000	279	
14 Methylene Chloride	84	4.652	4.653	(0.604)	304351	50.0000	49.7	
15 Acetone	43	4.724	4.717	(0.613)	472239	250.000	272	
16 Isobutyl Alcohol	43	7.898	7.899	(1.025)	108810	1000.00	707	
17 trans-1,2-Dichloroethene	96	4.888	4.889	(0.634)	263097	50.0000	48.6	
18 Allyl Chloride	41	4.502	4.495	(0.584)	346359	50.0000	51.6	
19 Methyl tert-butyl ether	73	5.045	5.046	(0.655)	1430111	100.000	107	
20 Acetonitrile	39	5.374	5.375	(0.697)	68011	500.000	501	
21 Di-isopropyl ether	45	5.589	5.589	(0.725)	742768	50.0000	55.1	
22 Chloroprene	53	5.717	5.711	(0.742)	358358	50.0000	51.7	
23 Propionitrile	54	7.627	7.620	(0.990)	473117	500.000	557	
24 Methacrylonitrile	41	7.655	7.656	(0.994)	1833924	500.000	560	

Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3830.D
Report Date: 12-Jun-2015 13:13

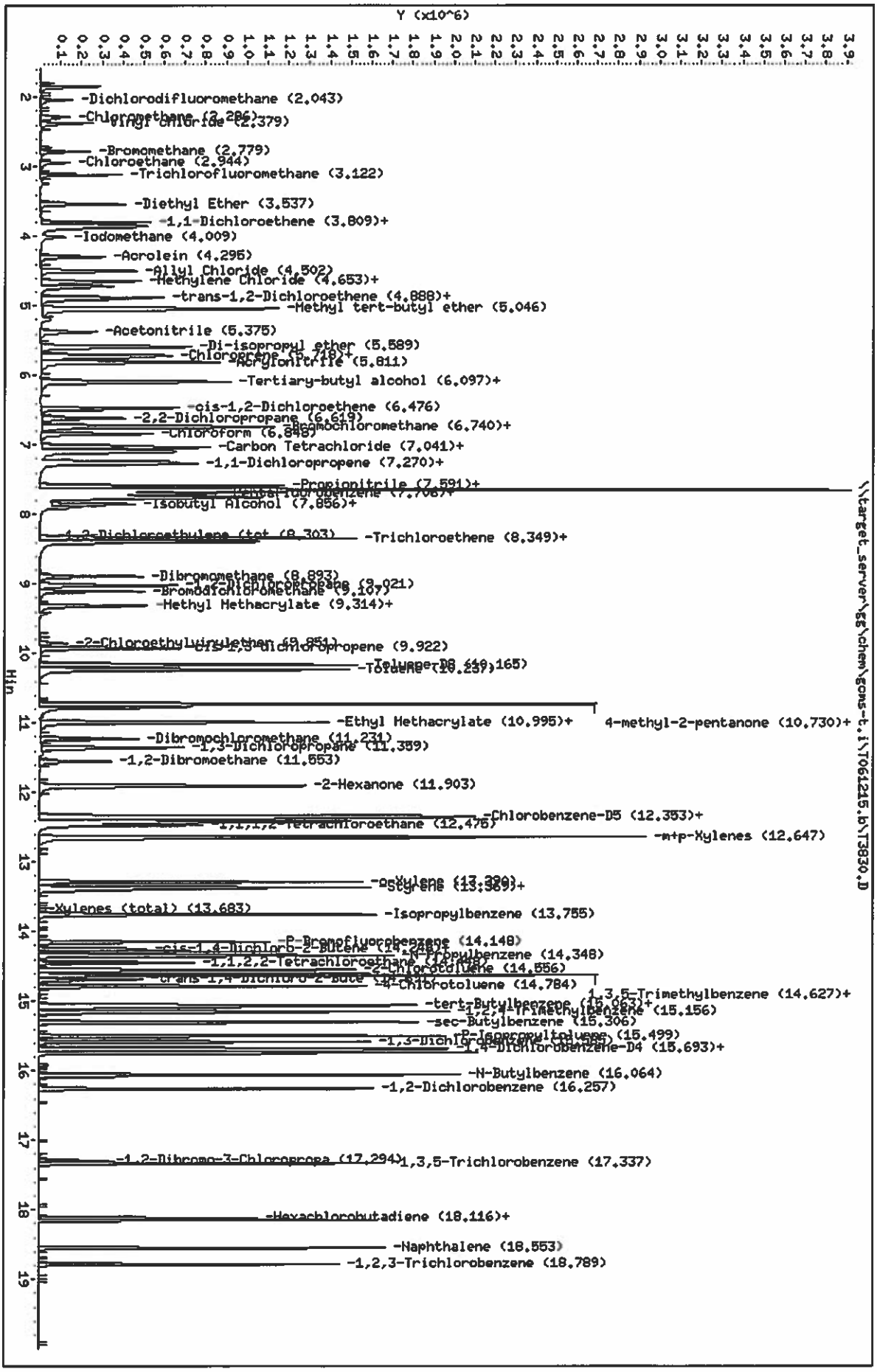
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
	25 1,1-Dichloroethane	63	5.746	5.747	(0.746)	455194	50.0000	50.4	
	26 Acrylonitrile	52	5.810	5.811	(0.754)	578423	250.000	275	
	27 Ethyl tertiary-butyl ether	59	6.089	6.090	(0.790)	696631	50.0000	53.3	
	28 Vinyl Acetate	43	6.104	6.104	(0.727)	564316	50.0000	42.6	
	29 cis-1,2-Dichloroethene	96	6.475	6.476	(0.840)	333764	50.0000	49.8	
	31 Methyl Methacrylate	41	9.314	9.315	(1.109)	244924	50.0000	56.9	
	32 2,2-Dichloropropane	77	6.618	6.619	(0.859)	299617	50.0000	50.9	
	33 Bromochloromethane	128	6.740	6.740	(0.875)	148042	50.0000	50.0	
	34 Chloroform	83	6.847	6.848	(0.889)	456348	50.0000	49.9	
	35 Carbon Tetrachloride	117	7.019	7.019	(0.836)	304397	50.0000	50.1	
	36 Tetrahydrofuran	42	7.040	7.041	(0.914)	468781	250.000	277	
$	37 Dibromofluoromethane	113	7.083	7.084	(0.919)	285686	50.0000	53.9	
	38 1,1,1-Trichloroethane	97	7.105	7.105	(0.922)	373411	50.0000	51.0	
	39 1,1-Dichloropropene	75	7.269	7.270	(0.865)	363163	50.0000	49.7	
	40 2-Butanone	43	7.240	7.241	(0.940)	702507	250.000	266	
	41 Benzene	78	7.591	7.591	(0.904)	1121413	50.0000	51.0	
*	42 Pentafluorobenzene	168	7.705	7.706	(1.000)	578912	50.0000		
	43 Cyclohexane	56	6.740	6.740	(0.875)	397416	50.0000	53.7	
	44 Ethyl Methacrylate	69	10.994	10.995	(1.309)	404209	50.0000	54.4	
$	45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.008)	303333	50.0000	53.8	
	46 Tertiary-amyl methyl ether	73	7.755	7.749	(1.006)	670939	50.0000	53.8	
	47 1,2-Dichloroethane	62	7.855	7.856	(0.935)	342813	50.0000	49.9	
	48 Trichloroethene	95	8.349	8.349	(0.994)	316737	50.0000	56.2	
*	49 1,4-Difluorobenzene	114	8.399	8.391	(1.000)	915998	50.0000		
	50 Dibromomethane	93	8.892	8.886	(1.059)	184428	50.0000	50.6	
	51 1,2-Dichloropropane	63	9.021	9.021	(1.074)	284861	50.0000	51.9	
	52 Bromodichloromethane	83	9.107	9.107	(1.084)	351541	50.0000	50.8	
	53 cis-1,3-dichloropropene	75	9.922	9.922	(1.181)	443112	50.0000	53.5	
	54 1,4-Dioxane	88	9.364	9.357	(1.115)	14842	1000.00	151	
$	55 Toluene-D8	98	10.165	10.165	(1.210)	1111789	50.0000	54.4	
	56 2-Chloroethylvinylether	63	9.850	9.851	(1.173)	59102	50.0000	61.4	
	57 Toluene	92	10.236	10.237	(1.219)	714914	50.0000	51.4	
	58 4-methyl-2-pentanone	43	10.730	10.730	(1.278)	1368216	250.000	273	
	59 Tetrachloroethene	164	10.737	10.737	(0.870)	239850	50.0000	49.2	
	60 trans-1,3-Dichloropropene	75	10.780	10.780	(1.283)	374658	50.0000	54.4	
	61 1,1,2-Trichloroethane	83	10.987	10.988	(1.308)	233677	50.0000	51.3	
	62 Dibromochloromethane	129	11.223	11.224	(0.909)	300439	50.0000	53.9	
	63 1,3-Dichloropropane	76	11.359	11.360	(0.920)	494122	50.0000	53.8	
	64 1,2-Dibromoethane	107	11.552	11.553	(1.375)	290657	50.0000	52.0	
	65 2-Hexanone	43	11.902	11.903	(0.964)	964620	250.000	277	
*	66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	806536	50.0000		
	67 Chlorobenzene	112	12.374	12.368	(1.002)	783202	50.0000	49.3	
	68 1-Chlorohexane	91	12.353	12.353	(1.001)	367723	50.0000	46.9	
	69 Ethylbenzene	106	12.417	12.418	(1.006)	428289	50.0000	49.7	
	70 1,1,1,2-Tetrachloroethane	131	12.474	12.475	(1.010)	267680	50.0000	51.7	
	72 m+p-Xylenes	106	12.646	12.647	(1.024)	1033545	100.000	100	
	73 o-Xylene	106	13.290	13.290	(1.076)	506340	50.0000	51.6	
	74 Styrene	104	13.368	13.369	(1.083)	865197	50.0000	51.9	
	75 Bromoform	173	13.397	13.397	(1.085)	219216	50.0000	53.2	
	76 Isopropylbenzene	105	13.754	13.755	(0.877)	1225645	50.0000	51.0	
$	77 P-Bromofluorobenzene	95	14.148	14.148	(1.684)	404178	50.0000	49.7	
	78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248	(0.908)	111695	50.0000	55.5	
	79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692	(0.937)	97134	50.0000	57.6	
	80 Bromobenzene	156	14.291	14.291	(0.911)	354991	50.0000	49.4	

Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3830.D
Report Date: 12-Jun-2015 13:13

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/l)	AMOUNTS ON-COL (ug/l)	REVIEW CODE
81 N-Propylbenzene	91	14.348	14.348	(0.915)	1445971	50.0000	51.3	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448	(0.921)	413968	50.0000	53.2	
83 1,3,5-Trimethylbenzene	105	14.627	14.627	(0.933)	1101853	50.0000	51.7	
84 2-Chlorotoluene	91	14.555	14.556	(0.928)	877288	50.0000	50.8	
85 1,2,3-Trichloropropane	75	14.627	14.627	(0.933)	322685	50.0000	51.6	
86 4-Chlorotoluene	91	14.784	14.785	(0.943)	948670	50.0000	50.1	
87 tert-Butylbenzene	119	15.063	15.063	(0.960)	1064259	50.0000	50.2	
88 Pentachloroethane	117	15.084	15.085	(0.962)	231181	50.0000	50.0	
89 1,2,4-Trimethylbenzene	105	15.156	15.156	(0.966)	1093696	50.0000	51.1	
90 P-Isopropyltoluene	119	15.499	15.500	(0.988)	1180324	50.0000	50.6	
91 1,3-Dichlorobenzene	146	15.585	15.585	(0.994)	654157	50.0000	48.6	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	453127	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707	(1.001)	674961	50.0000	48.5	
94 N-Butylbenzene	91	16.064	16.064	(1.024)	1076270	50.0000	50.2	
95 sec-Butylbenzene	105	15.306	15.306	(0.976)	1333931	50.0000	50.9	
96 1,2-Dichlorobenzene	146	16.257	16.257	(1.036)	649826	50.0000	49.7	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294	(1.103)	77530	50.0000	49.0	
98 1,3,5-Trichlorobenzene	180	17.337	17.337	(1.105)	514054	50.0000	46.9	
99 Hexachlorobutadiene	225	18.116	18.117	(1.155)	195760	50.0000	45.7	
100 1,2,4-Trichlorobenzene	180	18.145	18.145	(1.157)	487815	50.0000	47.9	
101 1,2,3-Trimethylbenzene	105	15.742	15.743	(1.004)	1151390	50.0000	50.4	
102 Naphthalene	128	18.552	18.553	(1.183)	1202955	50.0000	48.6	
103 1,2,3-Trichlorobenzene	180	18.788	18.789	(1.198)	445174	50.0000	44.1	
104 Methyl Acetate	43	4.909	4.910	(0.637)	246533	50.0000	51.5	
105 Methylcyclohexane	83	8.342	8.342	(1.083)	482288	50.0000	53.7	

Data File: \\target_server\gc\chem\gcms-t.i\T061215.b\T3830.D
Date : 12-JUN-2015 08:38
Client ID: ontinuing Calibrati
Sample Info: WG164674-4,SI4000
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-t.i
Operator: EME
Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\TB909.D

Date : 11-JUN-2015 11:44

Client ID:

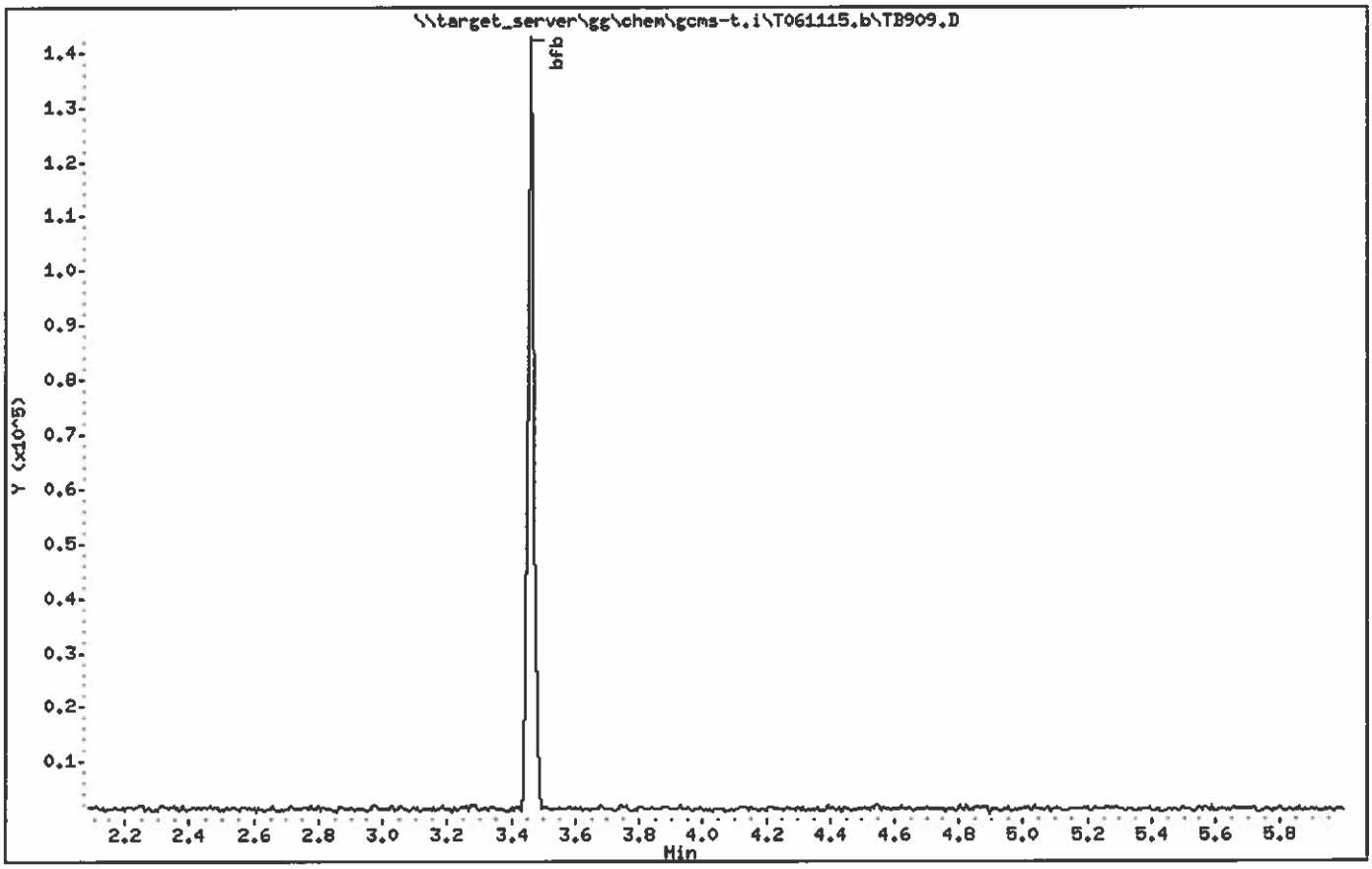
Instrument: gcms-t.i

Sample Info: WG164633-10,SI4000

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\TB909.D

Date : 11-JUN-2015 11:44

Client ID:

Instrument: gcms-t.i

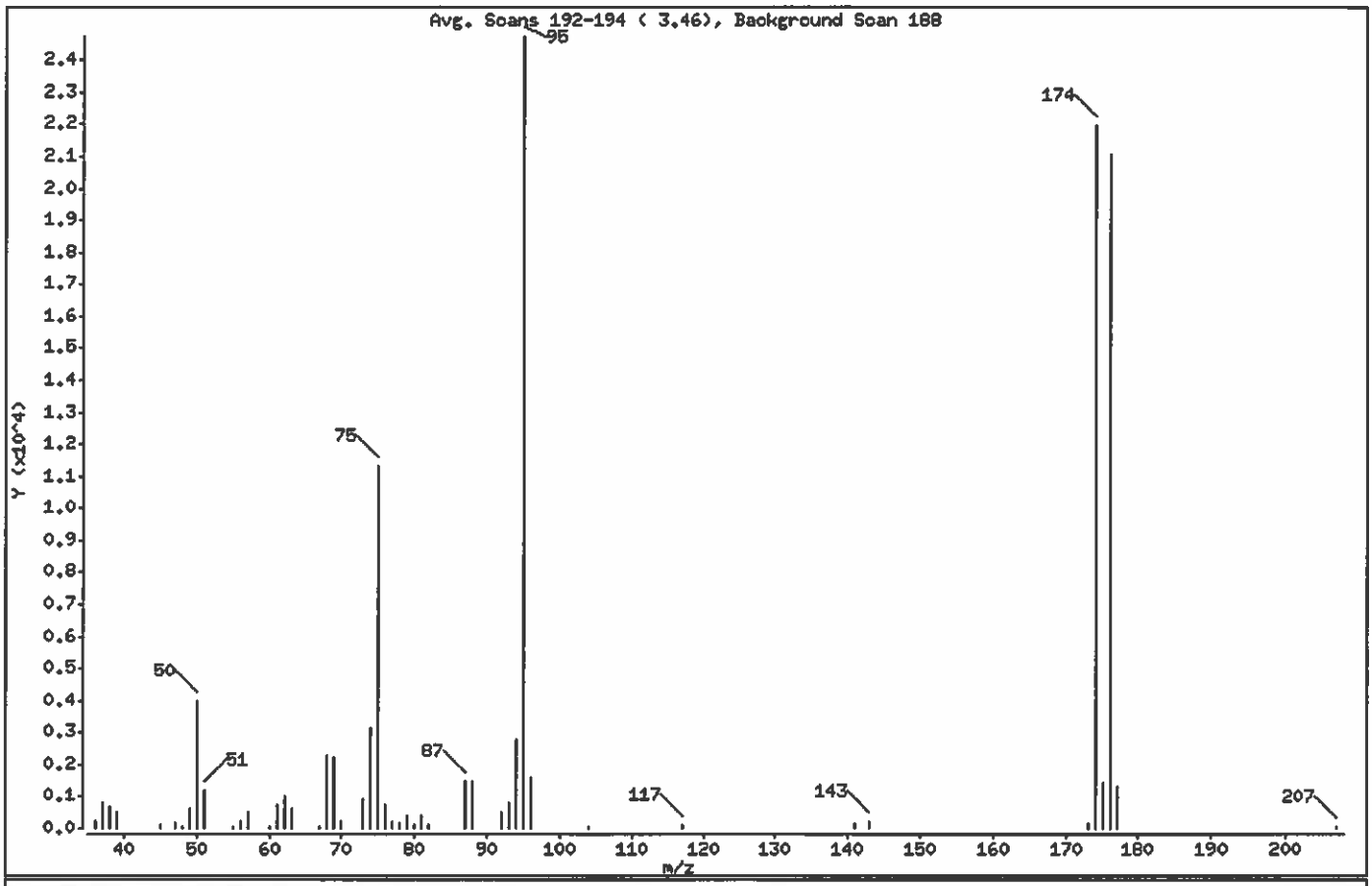
Sample Info: WC164633-10,SI4000

Operator: EME

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	16.07
75	30.00 - 60.00% of mass 95	45.72
96	5.00 - 9.00% of mass 95	6.41
173	Less than 2.00% of mass 174	0.59 (0.66)
174	Greater than 50.00% of mass 95	88.66
175	5.00 - 9.00% of mass 174	5.71 (6.44)
176	95.00 - 101.00% of mass 174	85.01 (95.88)
177	5.00 - 9.00% of mass 176	5.19 (6.11)

Data File: \\target_server\gg\chem\gcms-t.i\T061115.b\TB909.D

Date : 11-JUN-2015 11:44

Client ID:

Instrument: gcms-t.i

Sample Info: WC164633-10,SI4000

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

Data File: TB909.D
Spectrum: Avg. Scans 192-194 (3.46), Background Scan 188
Location of Maximum: 95.00
Number of points: 48

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	214	60.00	80	78.00	158	117.00	89
37.00	776	61.00	741	79.00	373	141.00	168
38.00	684	62.00	1017	80.00	93	143.00	217
39.00	486	63.00	647	81.00	409	173.00	146
45.00	112	67.00	75	82.00	99	174.00	21952
47.00	182	68.00	2286	87.00	1455	175.00	1413
48.00	75	69.00	2232	88.00	1453	176.00	21048
49.00	649	70.00	214	92.00	529	177.00	1286
50.00	3978	73.00	903	93.00	775	207.00	70
51.00	1190	74.00	3117	94.00	2769		
55.00	73	75.00	11320	95.00	24760		
56.00	247	76.00	762	96.00	1588		
57.00	535	77.00	227	104.00	81		

Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\TB910.D

Date : 12-JUN-2015 08:10

Client ID:

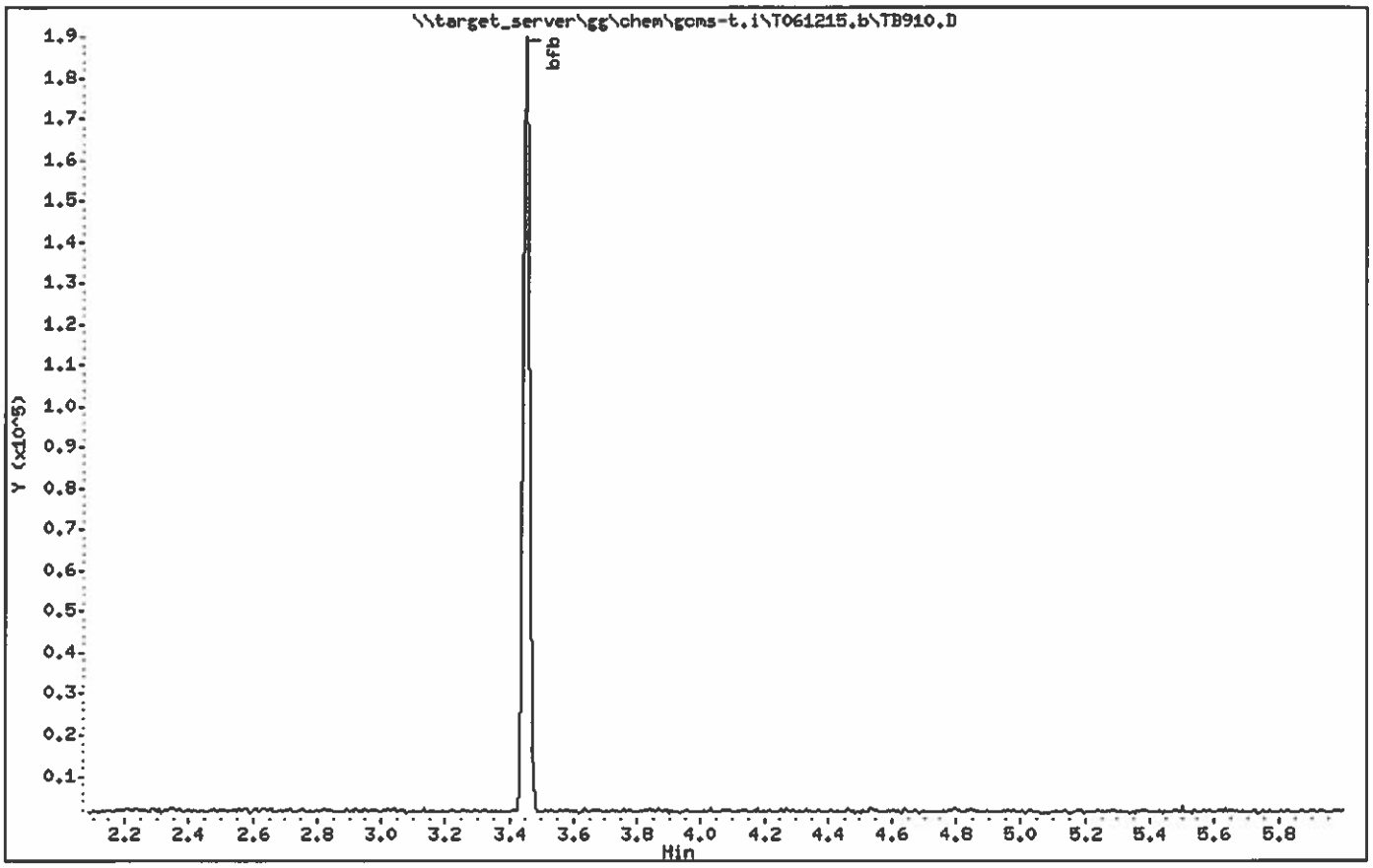
Instrument: gcms-t.i

Sample Info: WG164674-3,SI4000

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18



Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\TB910.D

Date : 12-JUN-2015 08:10

Client ID:

Instrument: gcms-t.i

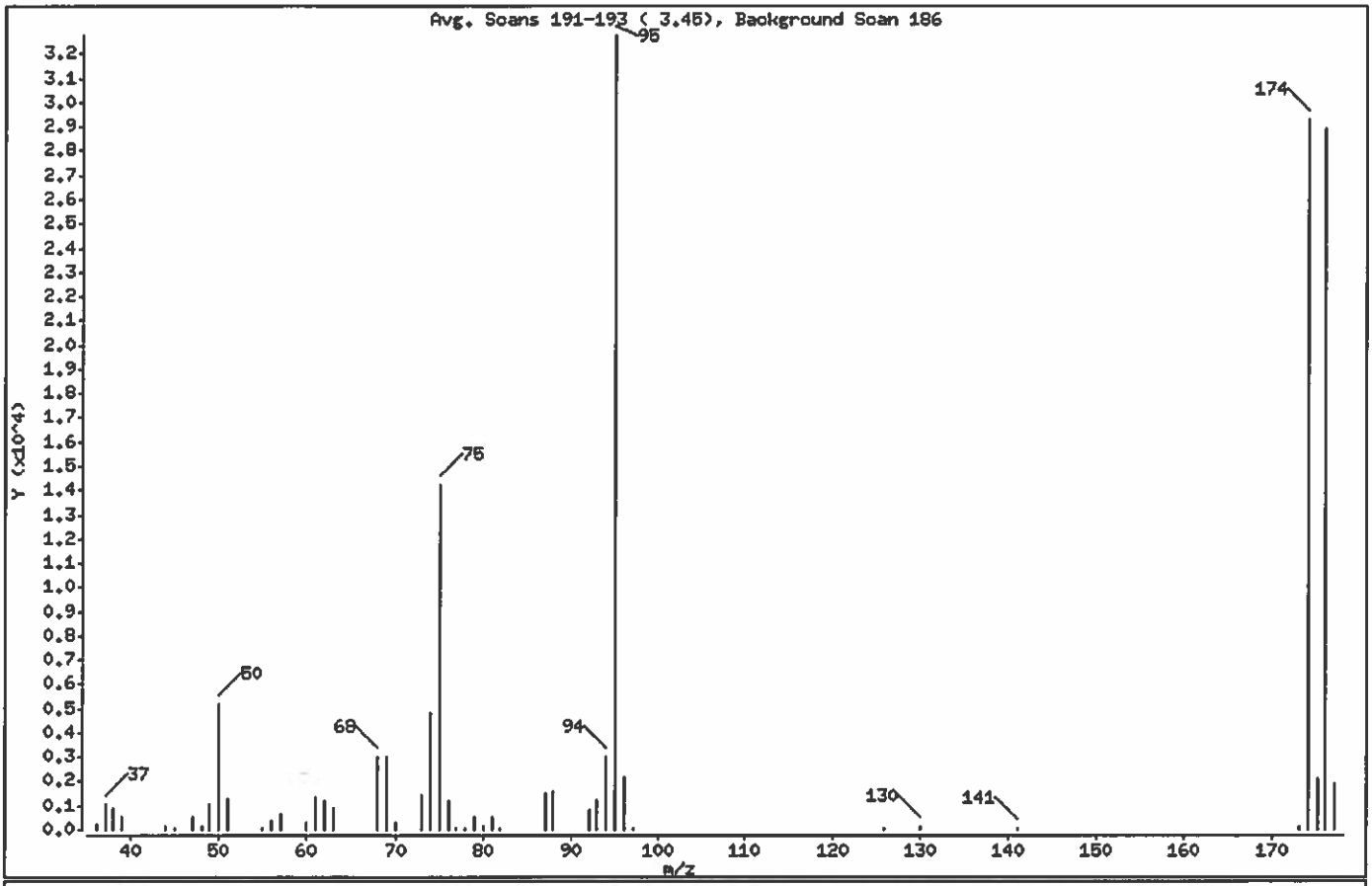
Sample Info: WC164674-3,SI4000

Operator: EME

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	15.83
75	30.00 - 60.00% of mass 95	43.52
96	5.00 - 9.00% of mass 95	6.67
173	Less than 2.00% of mass 174	0.45 (0.50)
174	Greater than 50.00% of mass 95	89.43
175	5.00 - 9.00% of mass 174	6.45 (7.21)
176	95.00 - 101.00% of mass 174	88.34 (98.77)
177	5.00 - 9.00% of mass 176	5.66 (6.41)

Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\TB910.D

Date : 12-JUN-2015 08:10

Client ID:

Instrument: gcms-t.i

Sample Info: WG164674-3,SI4000

Operator: EME

Column phase: RTX-VMS

Column diameter: 0.18

Data File: TB910.D
Spectrum: Avg. Scans 191-193 (3.45), Background Scan 186
Location of Maximum: 95.00
Number of points: 47

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	221	56.00	404	76.00	1182	95.00	32784
37.00	1027	57.00	695	77.00	96	96.00	2187
38.00	929	60.00	332	78.00	83	97.00	75
39.00	526	61.00	1372	79.00	514	126.00	70
44.00	183	62.00	1240	80.00	141	130.00	180
45.00	99	63.00	880	81.00	503	141.00	83
47.00	545	68.00	3026	82.00	71	173.00	146
48.00	180	69.00	2984	87.00	1528	174.00	29320
49.00	1059	70.00	265	88.00	1564	175.00	2113
50.00	5190	73.00	1397	92.00	817	176.00	28960
51.00	1288	74.00	4790	93.00	1179	177.00	1856
55.00	73	75.00	14267	94.00	2988		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164674-2
Client ID: Method Blank Sample
Project:
SDG: SI4000
Lab File ID: T3834.D

Sample Date:
Received Date:
Extract Date: 12-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164674

Analysis Date: 12-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Dichlorodifluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
Chloromethane	U	1.0	ug/L	1	2	2.0	0.36	1.0
Vinyl Chloride	U	1.0	ug/L	1	2	2.0	0.25	1.0
Bromomethane	U	1.0	ug/L	1	2	2.0	0.49	1.0
Chloroethane	U	1.0	ug/L	1	2	2.0	0.55	1.0
Trichlorofluoromethane	U	1.0	ug/L	1	2	2.0	0.24	1.0
1,1-Dichloroethene	U	0.50	ug/L	1	1	1.0	0.35	0.50
Carbon Disulfide	U	0.50	ug/L	1	1	1.0	0.25	0.50
Freon-113	U	0.50	ug/L	1	1	1.0	0.31	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
1,1,1-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.20	0.50
2-Butanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
Cyclohexane	U	0.50	ug/L	1	1	1.0	0.31	0.50
Carbon Tetrachloride	U	0.50	ug/L	1	1	1.0	0.22	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
1,2-Dichloropropane	U	0.50	ug/L	1	1	1.0	0.25	0.50
Bromodichloromethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
cis-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.19	0.50
Toluene	U	0.50	ug/L	1	1	1.0	0.27	0.50
4-Methyl-2-Pentanone	U	2.5	ug/L	1	5	5.0	1.3	2.5
trans-1,3-Dichloropropene	U	0.50	ug/L	1	1	1.0	0.20	0.50
1,1,2-Trichloroethane	U	0.50	ug/L	1	1	1.0	0.33	0.50
Tetrachloroethene	U	0.50	ug/L	1	1	1.0	0.40	0.50
Dibromochloromethane	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
Chlorobenzene	U	0.50	ug/L	1	1	1.0	0.22	0.50

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Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164674-2
Client ID: Method Blank Sample
Project:
SDG: SI4000
Lab File ID: T3834.D

Sample Date:
Received Date:
Extract Date: 12-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164674

Analysis Date: 12-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
Ethylbenzene	U	0.50	ug/L	1	1	1.0	0.21	0.50
Xylenes (total)	U	1.5	ug/L	1	3	3.0	0.25	1.5
Styrene	U	0.50	ug/L	1	1	1.0	0.23	0.50
Bromoform	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
Methyl Acetate	U	0.75	ug/L	1	1	1.0	0.53	0.75
Methylcyclohexane	U	0.50	ug/L	1	1	1.0	0.30	0.50
o-Xylene	U	0.50	ug/L	1	1	1.0	0.25	0.50
M+P-Xylenes	U	1.0	ug/L	1	2	2.0	0.59	1.0
1,2-Dichloroethylene (Total)	U	1.0	ug/L	1	2	2.0	0.21	1.0
1,2-Dibromoethane	U	0.50	ug/L	1	1	1.0	0.22	0.50
1,2-Dibromo-3-Chloropropane	U	0.75	ug/L	1	1	1.0	0.50	0.75
P-Bromofluorobenzene		103.	%					
Toluene-d8		110.	%					
1,2-Dichloroethane-d4		116.	%					
Dibromofluoromethane		114.	%					

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Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3834.D
Report Date: 12-Jun-2015 13:13

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Data file : \\target_server\gg\chem\gcms-t.i\T061215.b\T3834.D
Lab Smp Id: WG164674-2 Client Smp ID: WG164674-Blank
Inj Date : 12-JUN-2015 11:16 MS Autotune Date: 26-FEB-2015 07:23
Operator : EME Inst ID: gcms-t.i
Smp Info : WG164674-2,SI4000
Misc Info : WG164674,WG164633-4,SI4000-2
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061215.b\T826AN06.m
Meth Date : 12-Jun-2015 13:09 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.D
Als bottle: 5 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

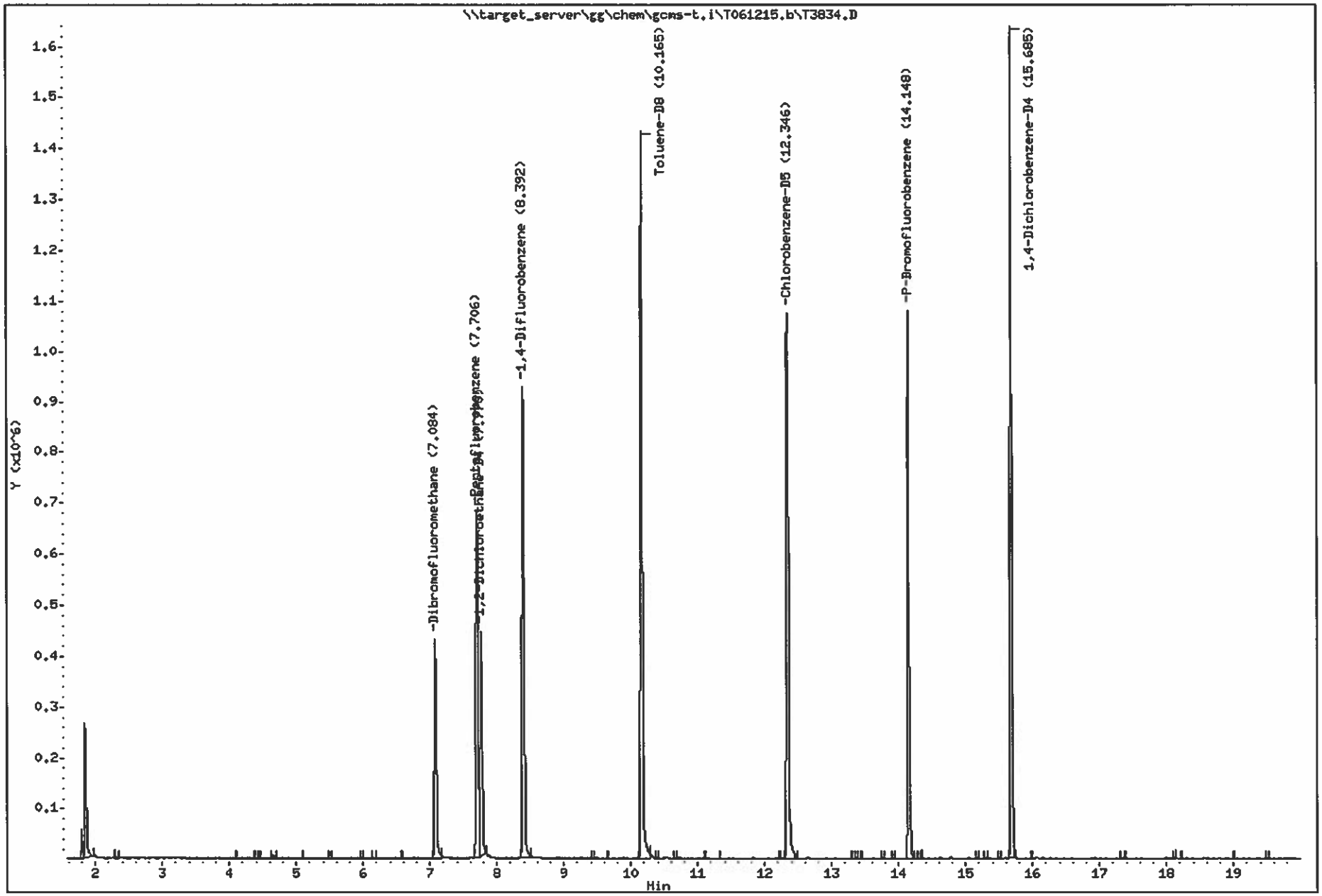
Concentration Formula: Amt * DF * 5/Vo * CpndVariable

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)	FINAL (ug/l)	REVIEW CODE
$ 37 Dibromofluoromethane	113	7.083	7.084	(0.919)	276824	57.2401	57.2	
* 42 Pentafluorobenzene	168	7.705	7.706	(1.000)	527869	50.0000		
$ 45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.008)	297893	57.9683	58.0	
* 49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	835318	50.0000		
$ 55 Toluene-D8	98	10.165	10.165	(1.211)	1029088	55.1921	55.2	
* 66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	791348	50.0000		
$ 77 P-Bromofluorobenzene	95	14.148	14.148	(1.686)	383245	51.6573	51.6	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	423236	50.0000		

Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3834.D
Date : 12-JUN-2015 11:16
Client ID: WG164674-Blank
Sample Info: WG164674-2,SI4000

Instrument: gcms-t.i



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ANALYTICAL SERVICES

Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164674-1
Client ID: LCS
Project:
SDG: SI4000
LCS File ID: T3831.D

Sample Date:
Received Date:
Extract Date: 12-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164674

Analysis Date: 12-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Dichlorodifluoromethane	102.	50.0	51.2	ug/L	30-155
Chloromethane	105.	50.0	52.5	ug/L	40-125
Vinyl Chloride	99.4	50.0	49.7	ug/L	50-145
Bromomethane	102.	50.0	51.0	ug/L	30-145
Chloroethane	99.2	50.0	49.6	ug/L	60-135
Trichlorofluoromethane	97.6	50.0	48.8	ug/L	60-145
1,1-Dichloroethene	94.6	50.0	47.3	ug/L	70-130
Carbon Disulfide	119.	50.0	59.6	ug/L	35-160
Freon-113	94.4	50.0	47.2	ug/L	73-126
Methylene Chloride	95.8	50.0	47.9	ug/L	55-140
Acetone	87.4	50.0	43.7	ug/L	40-140
trans-1,2-Dichloroethene	104.	50.0	51.8	ug/L	60-140
Methyl tert-butyl Ether	110.	100.	110.	ug/L	65-125
1,1-Dichloroethane	103.	50.0	51.4	ug/L	70-135
cis-1,2-Dichloroethene	90.2	50.0	45.1	ug/L	70-125
Chloroform	98.6	50.0	49.3	ug/L	65-135
1,1,1-Trichloroethane	98.2	50.0	49.1	ug/L	65-130
2-Butanone	98.0	50.0	49.0	ug/L	30-150
Cyclohexane	99.6	50.0	49.8	ug/L	71-133
Carbon Tetrachloride	97.6	50.0	48.8	ug/L	65-140
Benzene	101.	50.0	50.3	ug/L	80-120
1,2-Dichloroethane	96.8	50.0	48.4	ug/L	70-130
Trichloroethene	109.	50.0	54.7	ug/L	70-125
1,2-Dichloropropane	101.	50.0	50.4	ug/L	75-125
Bromodichloromethane	102.	50.0	51.0	ug/L	75-120
cis-1,3-Dichloropropene	107.	50.0	53.5	ug/L	70-130
Toluene	98.2	50.0	49.1	ug/L	75-120
4-Methyl-2-Pentanone	105.	50.0	52.7	ug/L	60-135
trans-1,3-Dichloropropene	113.	50.0	56.5	ug/L	55-140
1,1,2-Trichloroethane	102.	50.0	51.2	ug/L	75-125
Tetrachloroethene	94.6	50.0	47.3	ug/L	45-150
Dibromochloromethane	108.	50.0	54.0	ug/L	60-135
2-Hexanone	107.	50.0	53.6	ug/L	55-130
Chlorobenzene	97.8	50.0	48.9	ug/L	80-120
Ethylbenzene	98.2	50.0	49.1	ug/L	75-125

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Cert No E87604

LCS Recovery Report

Client:
Lab ID: WG164674-1
Client ID: LCS
Project:
SDG: SI4000
LCS File ID: T3831.D

Sample Date:
Received Date:
Extract Date: 12-JUN-15
Extracted By: EME
Extraction Method: SW846 5030
Lab Prep Batch: WG164674

Analysis Date: 12-JUN-15
Analyst: EME
Analysis Method: SW846 8260C
Matrix: AQ
% Solids: NA
Report Date: 25-JUN-15

Compound	Recovery (%)	Conc Added	Conc Recovered	Conc Units	Limits
Xylenes (total)	99.3	150.	149.	ug/L	89-116
Styrene	103.	50.0	51.3	ug/L	65-135
Bromoform	110.	50.0	54.9	ug/L	70-130
Isopropylbenzene	102.	50.0	51.2	ug/L	75-125
1,1,2,2-Tetrachloroethane	103.	50.0	51.6	ug/L	65-130
1,3-Dichlorobenzene	98.4	50.0	49.2	ug/L	75-125
1,4-Dichlorobenzene	97.8	50.0	48.9	ug/L	75-125
1,2-Dichlorobenzene	99.2	50.0	49.6	ug/L	70-120
1,2,4-Trichlorobenzene	96.6	50.0	48.3	ug/L	65-135
Methyl Acetate	105.	50.0	52.7	ug/L	70-132
Methylcyclohexane	97.0	50.0	48.5	ug/L	73-125
o-Xylene	101.	50.0	50.7	ug/L	80-120
M+P-Xylenes	98.3	100.	98.3	ug/L	75-130
1,2-Dichloroethylene (Total)	96.9	100.	96.9	ug/L	84-121
1,2-Dibromoethane	103.	50.0	51.6	ug/L	80-120
1,2-Dibromo-3-Chloropropane	101.	50.0	50.6	ug/L	50-130
P-Bromofluorobenzene	97.3				75-120
Toluene-d8	106.				85-120
1,2-Dichloroethane-d4	108.				70-120
Dibromofluoromethane	105.				85-115

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Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3831.D
Report Date: 12-Jun-2015 13:13

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Data file : \\target_server\gg\chem\gcms-t.i\T061215.b\T3831.D
Lab Smp Id: WG164674-1 Client Smp ID: WG164674-LCS
Inj Date : 12-JUN-2015 09:22 MS Autotune Date: 26-FEB-2015 07:23
Operator : EME Inst ID: gcms-t.i
Smp Info : WG164674-1,SI4000
Misc Info : WG164674,WG164633-4,SI4000-2
Comment : SW846 5030
Method : \\target_server\gg\chem\gcms-t.i\T061215.b\T826AN06.m
Meth Date : 12-Jun-2015 13:09 gcms-t.i Quant Type: ISTD
Cal Date : 11-JUN-2015 18:22 Cal File: T3815.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)	FINAL (ug/l)	REVIEW CODE
1 Dichlorodifluoromethane	85	2.042	2.043	(0.265)	182077	51.2480	51.2	
2 Chloromethane	50	2.278	2.279	(0.296)	274156	52.4865	52.5	
3 Vinyl chloride	62	2.378	2.379	(0.309)	255392	49.7171	49.7	
4 Bromomethane	94	2.779	2.779	(0.361)	159118	50.9578	51.0	
5 Chloroethane	64	2.936	2.937	(0.381)	154884	49.5973	49.6	
6 Trichlorofluoromethane	101	3.115	3.115	(0.404)	333846	48.7577	48.8	
7 Diethyl Ether	59	3.537	3.537	(0.459)	225409	51.3894	51.4	
8 Tertiary-butyl alcohol	59	6.089	6.090	(0.790)	699643	267.265	267	
9 1,1-Dichloroethene	96	3.808	3.802	(0.494)	239022	47.2917	47.3	
10 Carbon Disulfide	76	3.844	3.845	(0.499)	811858	59.5865	59.6	
11 Freon-113	151	3.865	3.866	(0.502)	163080	47.1560	47.2	
12 Iodomethane	142	4.008	4.009	(0.520)	195964	47.7148	47.7	
13 Acrolein	56	4.294	4.295	(0.557)	320294	278.815	279	
14 Methylene Chloride	84	4.652	4.653	(0.604)	293588	47.8837	47.9	
15 Acetone	43	4.724	4.717	(0.613)	76121	43.6943	43.7	
16 Isobutyl Alcohol	43	7.898	7.899	(1.025)	140325	909.517	910	
17 trans-1,2-Dichloroethene	96	4.881	4.889	(0.633)	280710	51.7561	51.8	
18 Allyl Chloride	41	4.495	4.495	(0.583)	338622	50.3444	50.3	
19 Methyl tert-butyl ether	73	5.045	5.046	(0.655)	1467965	110.084	110	
20 Acetonitrile	39	5.374	5.375	(0.697)	66337	487.779	488	
21 Di-isopropyl ether	45	5.589	5.589	(0.725)	737335	54.6305	54.6	
22 Chloroprene	53	5.717	5.711	(0.742)	356737	51.3446	51.3	
23 Propionitrile	54	7.619	7.620	(0.989)	463128	544.156	544	
24 Methacrylonitrile	41	7.655	7.656	(0.994)	1836132	559.814	560	

Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3831.D
Report Date: 12-Jun-2015 13:13

	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	5.746	5.747	(0.746)	465294	51.4130	51.4	
	26 Acrylonitrile	52	5.810	5.811	(0.754)	585639	277.577	278	
	27 Ethyl tertiary-butyl ether	59	6.089	6.090	(0.790)	699643	53.4529	53.4	
	28 Vinyl Acetate	43	6.103	6.104	(0.727)	577419	43.4678	43.5	
	29 cis-1,2-Dichloroethene	96	6.475	6.476	(0.840)	303077	45.1290	45.1	
M	30 1,2-Dichloroethylene (total)	96				583787	96.8851	96.9	
	31 Methyl Methacrylate	41	9.314	9.315	(1.110)	243071	56.1314	56.1	
	32 2,2-Dichloropropane	77	6.618	6.619	(0.859)	293453	49.7184	49.7	
	33 Bromochloromethane	128	6.740	6.740	(0.875)	147037	49.6067	49.6	
	34 Chloroform	83	6.847	6.848	(0.889)	451742	49.3427	49.3	
	35 Carbon Tetrachloride	117	7.019	7.019	(0.836)	297997	48.7964	48.8	
	36 Tetrahydrofuran	42	7.047	7.041	(0.915)	84814	50.0767	50.1	
$	37 Dibromofluoromethane	113	7.083	7.084	(0.919)	280237	52.7339	52.7	
	38 1,1,1-Trichloroethane	97	7.105	7.105	(0.922)	360524	49.1431	49.1	
	39 1,1-Dichloropropene	75	7.269	7.270	(0.866)	373033	50.7115	50.7	
	40 2-Butanone	43	7.248	7.241	(0.941)	132537	49.0020	49.0	
	41 Benzene	78	7.591	7.591	(0.905)	1111241	50.2680	50.3	
*	42 Pentafluorobenzene	168	7.705	7.706	(1.000)	580041	50.0000		
	43 Cyclohexane	56	6.740	6.740	(0.875)	369151	49.7761	49.8	
	44 Ethyl Methacrylate	69	10.994	10.995	(1.310)	393700	52.6691	52.7	
$	45 1,2-Dichloroethane-D4	65	7.770	7.770	(1.008)	304481	53.9210	53.9	
	46 Tertiary-amyl methyl ether	73	7.755	7.749	(1.006)	655806	52.4522	52.4	
	47 1,2-Dichloroethane	62	7.855	7.856	(0.936)	334908	48.4201	48.4	
	48 Trichloroethene	95	8.349	8.349	(0.995)	310182	54.6960	54.7	
*	49 1,4-Difluorobenzene	114	8.392	8.391	(1.000)	921495	50.0000		
	50 Dibromomethane	93	8.892	8.886	(1.060)	180246	49.1188	49.1	
	51 1,2-Dichloropropane	63	9.021	9.021	(1.075)	277987	50.3543	50.4	
	52 Bromodichloromethane	83	9.107	9.107	(1.085)	354979	50.9563	51.0	
	53 cis-1,3-dichloropropene	75	9.929	9.922	(1.183)	445418	53.4710	53.5	
	54 1,4-Dioxane	88	9.364	9.357	(1.116)	49884	503.374	503	
$	55 Toluene-D8	98	10.165	10.165	(1.211)	1085964	52.7957	52.8	
	56 2-Chloroethylvinylether	63	9.850	9.851	(1.174)	84798	87.5381	87.5(R)	
	57 Toluene	92	10.236	10.237	(1.220)	686620	49.1268	49.1	
	58 4-methyl-2-pentanone	43	10.730	10.730	(1.279)	265261	52.6855	52.7	
	59 Tetrachloroethene	164	10.737	10.737	(0.870)	231703	47.3051	47.3	
	60 trans-1,3-Dichloropropene	75	10.780	10.780	(1.285)	390966	56.4626	56.5	
	61 1,1,2-Trichloroethane	83	10.987	10.988	(1.309)	234653	51.1909	51.2	
	62 Dibromochloromethane	129	11.230	11.224	(0.910)	301943	53.9862	54.0	
	63 1,3-Dichloropropane	76	11.359	11.360	(0.920)	482687	52.3342	52.3	
	64 1,2-Dibromoethane	107	11.552	11.553	(1.377)	289724	51.5667	51.6	
	65 2-Hexanone	43	11.909	11.903	(0.965)	186960	53.5557	53.6	
*	66 Chlorobenzene-D5	117	12.346	12.346	(1.000)	809676	50.0000		
	67 Chlorobenzene	112	12.367	12.368	(1.002)	778729	48.8744	48.9	
	68 1-Chlorohexane	91	12.353	12.353	(1.001)	349897	44.4674	44.5	
	69 Ethylbenzene	106	12.417	12.418	(1.006)	425229	49.1189	49.1	
	70 1,1,1,2-Tetrachloroethane	131	12.474	12.475	(1.010)	269455	51.8770	51.9	
M	71 Xylenes (total)	106				1515316	149.042	149	
	72 m+p-Xylenes	106	12.646	12.647	(1.024)	1016096	98.3297	98.3	
	73 o-Xylene	106	13.289	13.290	(1.076)	499220	50.7122	50.7	
	74 Styrene	104	13.368	13.369	(1.083)	858262	51.3075	51.3	
	75 Bromoform	173	13.397	13.397	(1.085)	227048	54.8700	54.9	
	76 Isopropylbenzene	105	13.754	13.755	(0.877)	1217357	51.1686	51.2	
$	77 P-Bromofluorobenzene	95	14.148	14.148	(1.686)	398319	48.6682	48.7	
	78 cis-1,4-Dichloro-2-Butene	53	14.248	14.248	(0.908)	113349	56.9038	56.9	

Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3831.D
Report Date: 12-Jun-2015 13:13

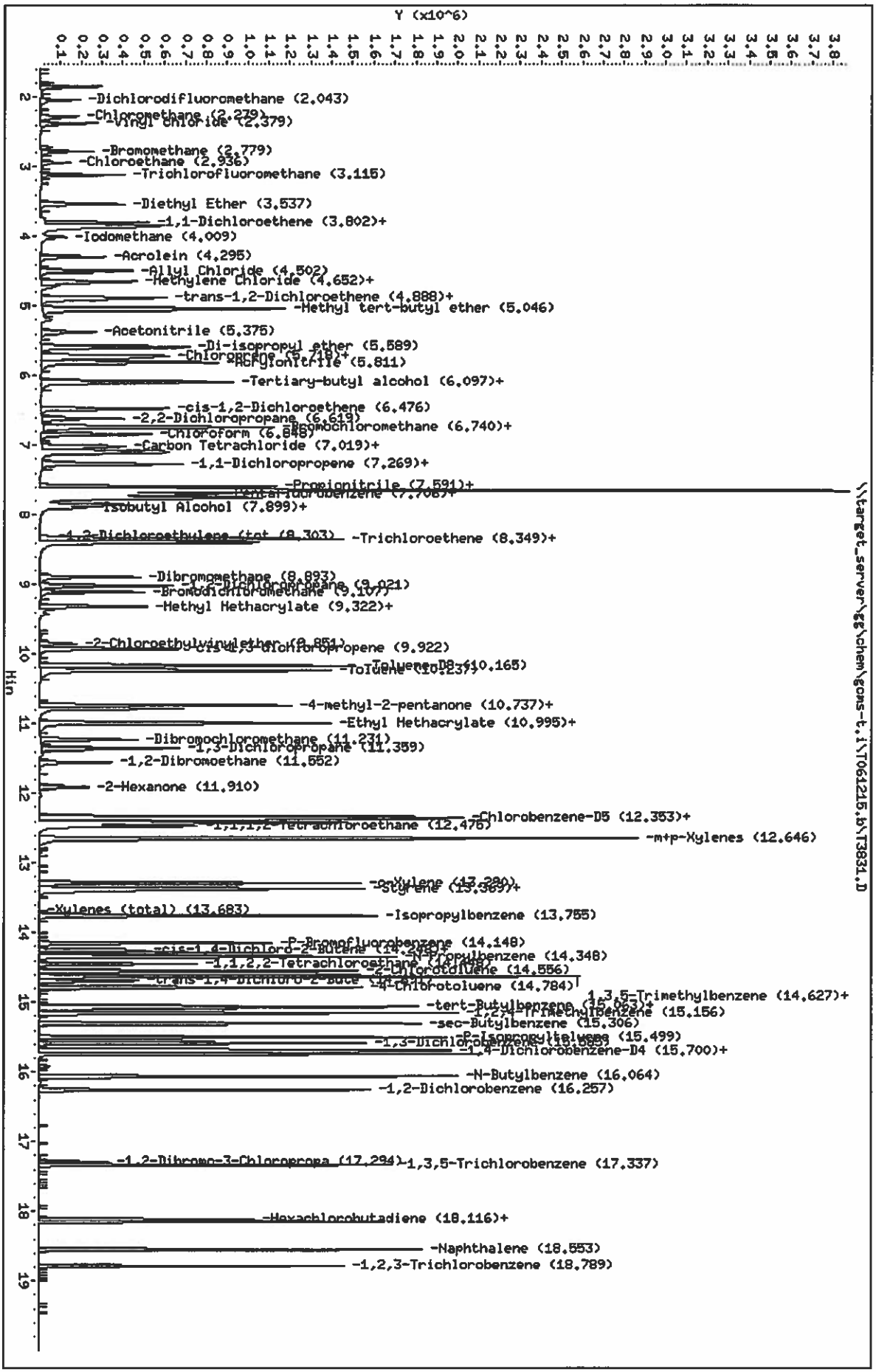
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/l)	CONCENTRATIONS FINAL (ug/l)	REVIEW CODE
79 trans-1,4-Dichloro-2-Butene	53	14.691	14.692	(0.937)	94818	56.8240	56.8	
80 Bromobenzene	156	14.291	14.291	(0.911)	351977	49.4957	49.5	
81 N-Propylbenzene	91	14.348	14.348	(0.915)	1468319	52.6609	52.7	
82 1,1,2,2-Tetrachloroethane	83	14.448	14.448	(0.921)	398149	51.6447	51.6	
83 1,3,5-Trimethylbenzene	105	14.627	14.627	(0.933)	1046502	49.6284	49.6	
84 2-Chlorotoluene	91	14.555	14.556	(0.928)	879408	51.4177	51.4	
85 1,2,3-Trichloropropane	75	14.627	14.627	(0.933)	323644	52.2574	52.2	
86 4-Chlorotoluene	91	14.784	14.785	(0.943)	931442	49.7209	49.7	
87 tert-Butylbenzene	119	15.063	15.063	(0.960)	1065198	50.7246	50.7	
88 Pentachloroethane	117	15.084	15.085	(0.962)	228099	49.8236	49.8	
89 1,2,4-Trimethylbenzene	105	15.156	15.156	(0.966)	1105155	52.1721	52.2	
90 P-Isopropyltoluene	119	15.499	15.500	(0.988)	1176632	50.9652	51.0	
91 1,3-Dichlorobenzene	146	15.585	15.585	(0.994)	655911	49.2435	49.2	
* 92 1,4-Dichlorobenzene-D4	152	15.685	15.685	(1.000)	448600	50.0000		
93 1,4-Dichlorobenzene	146	15.706	15.707	(1.001)	673398	48.8616	48.9	
94 N-Butylbenzene	91	16.064	16.064	(1.024)	1069357	50.4133	50.4	
95 sec-Butylbenzene	105	15.306	15.306	(0.976)	1328608	51.1685	51.2	
96 1,2-Dichlorobenzene	146	16.257	16.257	(1.036)	641997	49.6120	49.6	
97 1,2-Dibromo-3-Chloropropane	75	17.294	17.294	(1.103)	79250	50.6167	50.6	
98 1,3,5-Trichlorobenzene	180	17.337	17.337	(1.105)	513552	47.2881	47.3	
99 Hexachlorobutadiene	225	18.116	18.117	(1.155)	193536	45.6606	45.7	
100 1,2,4-Trichlorobenzene	180	18.145	18.145	(1.157)	486763	48.3290	48.3	
101 1,2,3-Trimethylbenzene	105	15.742	15.743	(1.004)	1140992	50.4032	50.4	
102 Naphthalene	128	18.552	18.553	(1.183)	1329890	54.3160	54.3	
103 1,2,3-Trichlorobenzene	180	18.788	18.789	(1.198)	454760	45.5136	45.5	
104 Methyl Acetate	43	4.909	4.910	(0.637)	252620	52.6895	52.7	
105 Methylcyclohexane	83	8.342	8.342	(1.083)	436413	48.4746	48.5	
M 106 Total Alkylbenzenes	100				8259771	357.733	358	

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: \\target_server\gg\chem\gcms-t.i\T061215.b\T3831.D
Date : 12-JUN-2015 09:22
Client ID: WG164674-LCS
Sample Info: WG164674-1,SI4000
Purge Volume: 5.0
Column phase: RTX-VMS

Instrument: gcms-t.i
Operator: EHE
Column diameter: 0.18



Logbooks and Supporting Documents

VOA-009 - Revision 1 - 03/10/2010

QAMS568

Katahdin Analytical Services 0000101

0000041

KATAHDIN ANALYTICAL SERVICES

GCMS-T INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 06/11/15 11:44

SAMPLE NAME	DATAFILE	DF	ALIQ	METHOD	PREP METHOD 5030	5035	1311	1312	3500	3520	VOL	ANALYST	pH	COMMENTS
50 ng BFB -6	TB909	1	-1	VOABFBAQ							Y	EMT		
VSTD050T11A	T3806	1	1	T826AN06							N			
↓ B	07	1	2								Y			WG164635-4
VSTD020T11A	08	1	3								Y			-3
005	09	1	4								Y			-2
001	10	1	5								N			
200	11	1	6								Y			Curve -6
↓ 100 ↓	12	1	7								Y			Weighable -5
VSTD001T11 B	13	1	8								N			
↓ C	14	1	9								N			
↓ D	15	1	10								Y			-1
LCS A	16	1	11								N			
↓ B -8	17	1	12								Y			-7
VBLK A	18	1	13								N			
B	19	1	14								N			
↓ C -9	20	1	15								Y			MeCl2 < PQL
SI4000-2 A	21	1	16		X				X		Y		<2	
SI3999-1 A	22	1	17								Y		<2	
-2DL AHBK	23	8	18								Y		<2	5→40ml
-3DL AHBK	24	8	19								Y		<2	↓ 23:41 ✓
SI4000-1 A	25	1	20								N		<2	00:16 DOC HA
Rinse	26	1	21								N			
Rinse	27	1	22								N			
Rinse	28	1	23								N			
Rinse	29	1	24								N			
														06/12/15 REC

STANDARD	CODE
BFB	V9879
CAL. STD.	V9882, V9883
LCS/MS MIX	V9880
EXTRAS MIX	V9884

STANDARD	CODE
IS MIX	V9893
SS MIX	V9894

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

KATAHDIN ANALYTICAL SERVICES

GCMS-T INSTRUMENT RUNLOG

DATE/TIME OF BFB INJECTION: 06-12-15/ 8:10

SAMPLE NAME	DATAFILE	DF	AREA	METHOD	PREV METHOD: GAS	PREV METHOD: SUBC	PREV METHOD: UNIT	CHANGE: GAS	CHANGE: DOC	CHANGE: ANALYST	Y/N	ANALYST	PH	COMMENTS
50 ng BFB ③	T3910	1	-1	VWBFB40							Y	EME		
VSTD050T12A ④	T3830	1	1	T8260MOG							Y			
LCS A [W6164674] ①	31	1	2								Y			
VBLK A	32	1	3								N			
B	33	1	4								N			
C ②	34	1	5								Y			
SI4000-2RA B	35	1	6			X				X	Y		<2	
-1RA B	36	1	7								Y		<2	
Rinse	37	1	8								N			
Rinse	38	1	9								N			
SI3629-1 A	39	1	10			X			X		Y		<2	
-2 B	40	1	11								Y		~~<2~~	6/15/15 REC
SI4066-2 A	41	1	12								Y		<2	
-1 A	42	1	13								Y		<2	
SI3948-7 A	43	1	14								Y		<2	
SI4058-1 A	44	1	15								Y		<2	DL 1:20 CRy dilu chromatic
-2 A	45	1	16								Y		<2	17:43 ✓
Rinse	46	1	17								N			
Rinse	47	1	18								N			
Rinse	48	1	19								N			
Rinse	49	1	20								N			
														06/15/15 REC

STANDARD	CODE
BFB	V9879
CAL. STD.	V9882, V9883
LCS/MS MIX	V9880
EXTRAS MIX	V9884

STANDARD	CODE
IS MIX	V9893
SS MIX	V9894

Circle Methods:

SW846 8260	OLM 04.2
SW846 8260 SIM	OLC 03.2
SW846 8260 SIM (heated purge)	EPA 624
	EPA 524

SEMIVOLATILES DATA

QC Summary Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 2
System Monitoring Compound Recovery

Lab Name: Katahdin Analytical Services **Project:** Navy Clean WE15-03-06 NWIRP Bethpage, NY **Matrix:** AQ
Lab Code: KAS **SDG:** SI4000

Client Sample ID	Lab Sample ID	Col. ID 14D	#
RE117DI-GW-060915	SI4000-1		78.4
Method Blank Sample	WG164843-1		77.8
Laboratory Control S	WG164843-2		69.7
Laboratory Control S	WG164843-3		56.6

		QC Limits
14D	1,4-DIOXANE-D8	30-150

= 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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Method Blank Summary

Lab Name : Katahdin Analytical Services
SDG : SI4000
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab Sample ID : WG164843-1
Lab File ID : G5073.D
Date Extracted : 15-JUN-15
Instrument ID : GCMS-G
Date Analyzed : 17-JUN-15
Matrix : AQ
Time Analyzed : 12:24

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
RE117DI-GW-060915	SI4000-1	G5074.D	06/17/15	12:51
Laboratory Control S	WG164843-2	G5075.D	06/17/15	13:18
Laboratory Control S	WG164843-3	G5076.D	06/17/15	13:46

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
SDG : SI4000
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Date Analyzed : 06-MAY-15
Lab File ID : GD606.D
Time Analyzed : 10:51
Instrument ID : GCMS-G

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	38.2		
68	Less than 2.0% of mass 69	0.6	1.61	1
69	Less than 100.0% of mass 198	36.5		
70	Less than 2.0% of mass 69	0.3	0.70	1
127	40.0 - 60.0% of mass 198	57.0		
197	Less than 1.0% of mass 198	0.3		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	7.2		
275	10.0 - 30.0% of mass 198	19.4		
365	1.0 - 100.0% of mass 198	1.8		
441	0.0 - 100.0% of mass 443	8.6	74.05	2
442	40.0 - 100.0% of mass 198	61.3		
443	17.0 - 23.0% of mass 442	11.7	19.05	3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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	WG162346-4	G4822.D	05/06/15	13:20
Initial Calibration	WG162346-2	G4823.D	05/06/15	13:47
Initial Calibration	WG162346-3	G4824.D	05/06/15	14:14
Initial Calibration	WG162346-5	G4825.D	05/06/15	14:42
Initial Calibration	WG162346-6	G4826.D	05/06/15	15:09
Initial Calibration	WG162346-7	G4827.D	05/06/15	15:55
Independent Source	WG162346-8	G4828.D	05/06/15	16:22

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Form 5
Semivolatile Organic Instrument Performance Check

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIRP Bethpage,
Lab File ID : GD628.D
Instrument ID : GCMS-G

SDG : SI4000
Date Analyzed : 17-JUN-15
Time Analyzed : 11:35

m/e	Ion Abundance Criteria	% Relative Abundance		
51	30.0 - 60.0% of mass 198	44.3		
68	Less than 2.0% of mass 69	0.5	1.42	1
69	Less than 100.0% of mass 198	38.4		
70	Less than 2.0% of mass 69	0.2	0.59	1
127	40.0 - 60.0% of mass 198	57.8		
197	Less than 1.0% of mass 198	0.2		
198	Base Peak, 100% relative abundance	100		
199	5.0 - 9.0% of mass 198	6.7		
275	10.0 - 30.0% of mass 198	20.4		
365	1.0 - 100.0% of mass 198	2.7		
441	0.0 - 100.0% of mass 443	12.4	71.53	2
442	40.0 - 100.0% of mass 198	86.1		
443	17.0 - 23.0% of mass 442	17.3	20.12	3

1-Value is % mass 69 2-Value is % mass 443
3-Value is % mass 442

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	WG164931-2	G5072.D	06/17/15	11:57
Method Blank Sample	WG164843-1	G5073.D	06/17/15	12:24
RE117DI-GW-060915	SI4000-1	G5074.D	06/17/15	12:51
Laboratory Control S	WG164843-2	G5075.D	06/17/15	13:18
Laboratory Control S	WG164843-3	G5076.D	06/17/15	13:46

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ANALYTICAL SERVICES

Cert No E87604

Form 8
Internal Standard Area and RT Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
Lab ID : WG162346-4
Lab File ID : G4822.D

SDG: SI4000
Analytical Date: 05/06/15 13:20
Instrument ID: GCMS-G

		1,4-DICHLOROBENZENE-D4			
		Area	#	RT	#
	Std .	88050		7.27	
	Upper Limit	176100		7.77	
	Lower Limit	44025		6.77	
Client Sample ID	Lab Sample ID				
Continuing Calibrati	WG164931-2	54690		7.16	
Method Blank Sample	WG164843-1	48316		7.16	
RE117DI-GW-060915	SI4000-1	51126		7.16	
Laboratory Control S	WG164843-2	53089		7.14	
Laboratory Control S	WG164843-3	55486		7.16	

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.

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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

Cert No E87604

Report of Analytical Results

Client: ENSAFE
Lab ID: SI4000-1
Client ID: RE117DI-GW-060915
Project: Navy Clean WE15-03-06 NWIRP Bethp
SDG: SI4000
Lab File ID: G5074.D

Sample Date: 09-JUN-15
Received Date: 10-JUN-15
Extract Date: 15-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG164843

Analysis Date: 17-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 29-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane	U	0.17	ug/L	1	.25	0.24	0.081	0.17
1,4-Dioxane-D8		78.4	%					

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Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\G5074.D
Report Date: 29-Jun-2015 10:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G061715.b\G5074.D
Lab Smp Id: SI4000-1 Client Smp ID: RE117DI-GW-060915
Inj Date : 17-JUN-2015 12:51 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : SI4000-1
Misc Info : WG164931,WG164843,WG162346-4
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G061715.b\GDIOXN54.m
Meth Date : 17-Jun-2015 12:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 15:55 Cal File: G4827.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

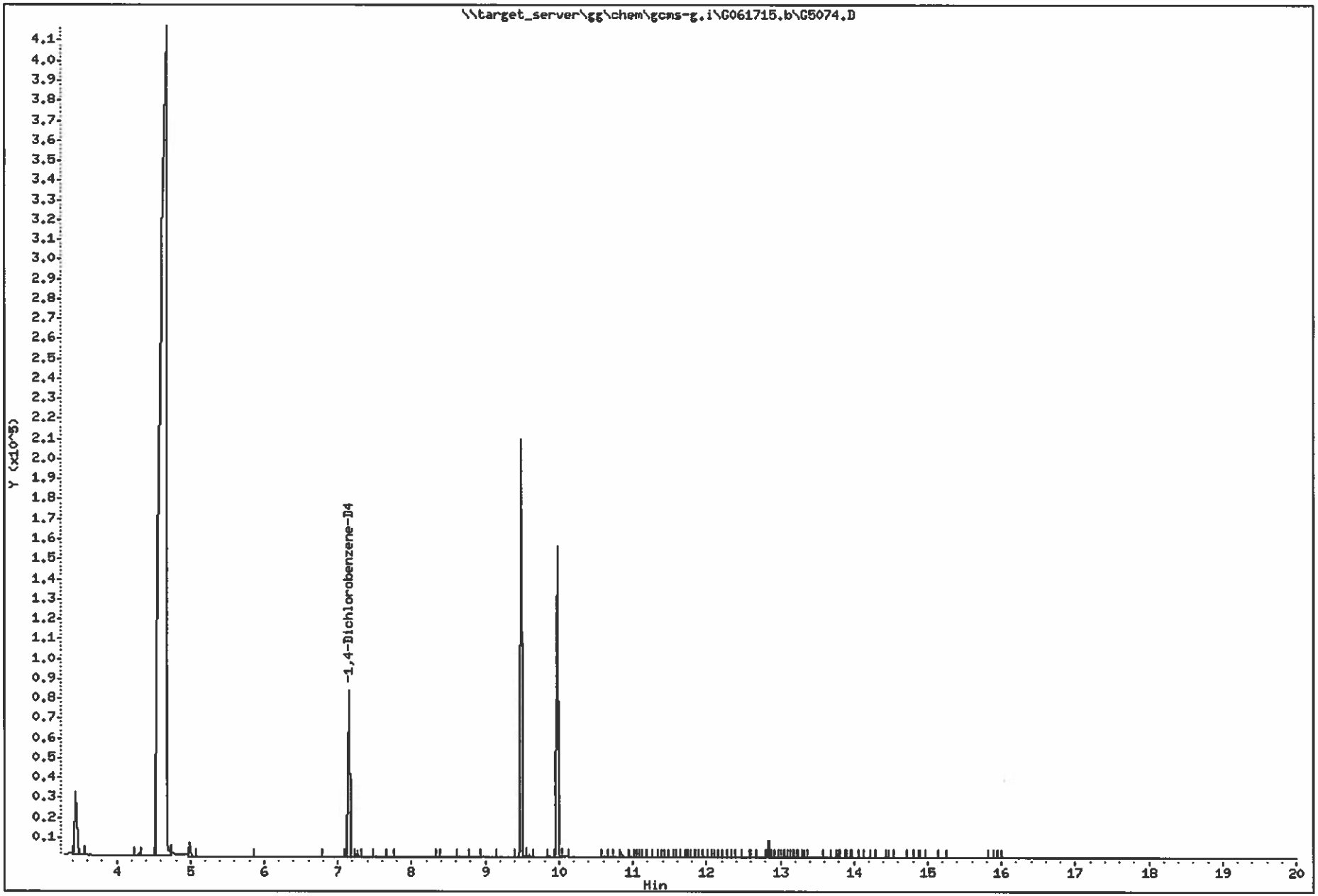
Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.050	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 2 1,4-Dioxane-D8	96	3.454	3.411	(0.483)	30053	1.56877	1.49(H)	
* 3 1,4-Dichlorobenzene-D4	150	7.157	7.156	(1.000)	51126	0.80000	(a)	

QC Flag Legend

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

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\G5074.D
Date : 17-JUN-2015 12:51
Client ID: RE117DI-GW-060915 Instrument: gcms-g.i
Sample Info: SI4000-1



Katahdin Analytical Services 0000115

Standards Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 6
Initial Calibration Summary

Lab Name : Katahdin Analytical Services **SDG:** SI4000
Project : Navy Clean WE15-03-06 NWIRP Bethpage, N **Instrument ID:** GCMS-G
Lab File IDs : G4823.D G4824.D G4822.D **Column ID:**
G4825.D G4826.D G4827.D **Calibration Date(s):** 06-MAY-15 11:11
06-MAY-15 15:55

	0.250000(Level 1	0.500000(Level 2	1.0000 Level 3	3.0000 Level 4	7.0000 Level 5	10.0000 Level 6	New Crv	b	m1	m2	%RSD	Max %RSD	
1,4-Dioxane	0.34634	0.32468	0.33889	0.35334	0.32665	0.31731	AVG		0.33454		4.15918	15.00000	O
1,4-Dioxane-D8	0.27006	0.28305	0.31756	0.29796	0.32690	0.30306	AVG		0.29976		7.04364	15.00000	

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

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Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4828.D
Report Date: 18-May-2015 14:41

Katahdin Analytical Services

RECOVERY REPORT

Client Name:
Sample Matrix: LIQUID
Lab Smp Id: WG162346-8
Level: LOW
Data Type: MS DATA
SpikeList File: shawINDaq.spk
Sublist File: all.sub
Method File: \\target_server\gg\chem\gcms-g.i\G050615.b\GDIOXN54.m
Misc Info: WG162346,WG162346,WG162346-4,SI3023-1

Client SDG: 021497
Fraction: SV

Operator: JCG
SampleType: INDCHECK
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1 1,4-Dioxane	2.00	2.06	103.08	80-120

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 2 1,4-Dioxane-D8	2.00	0.000	*	30-150

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4822.D
Report Date: 07-May-2015 08:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G050615.b\G4822.D
Lab Smp Id: WG162346-4
Inj Date : 06-MAY-2015 13:20 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG162346-4
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G050615.b\GDIOXN54.m
Meth Date : 06-May-2015 16:19 cgomez Quant Type: ISTD
Cal Date : 24-APR-2015 11:47 Cal File: G4702.D
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

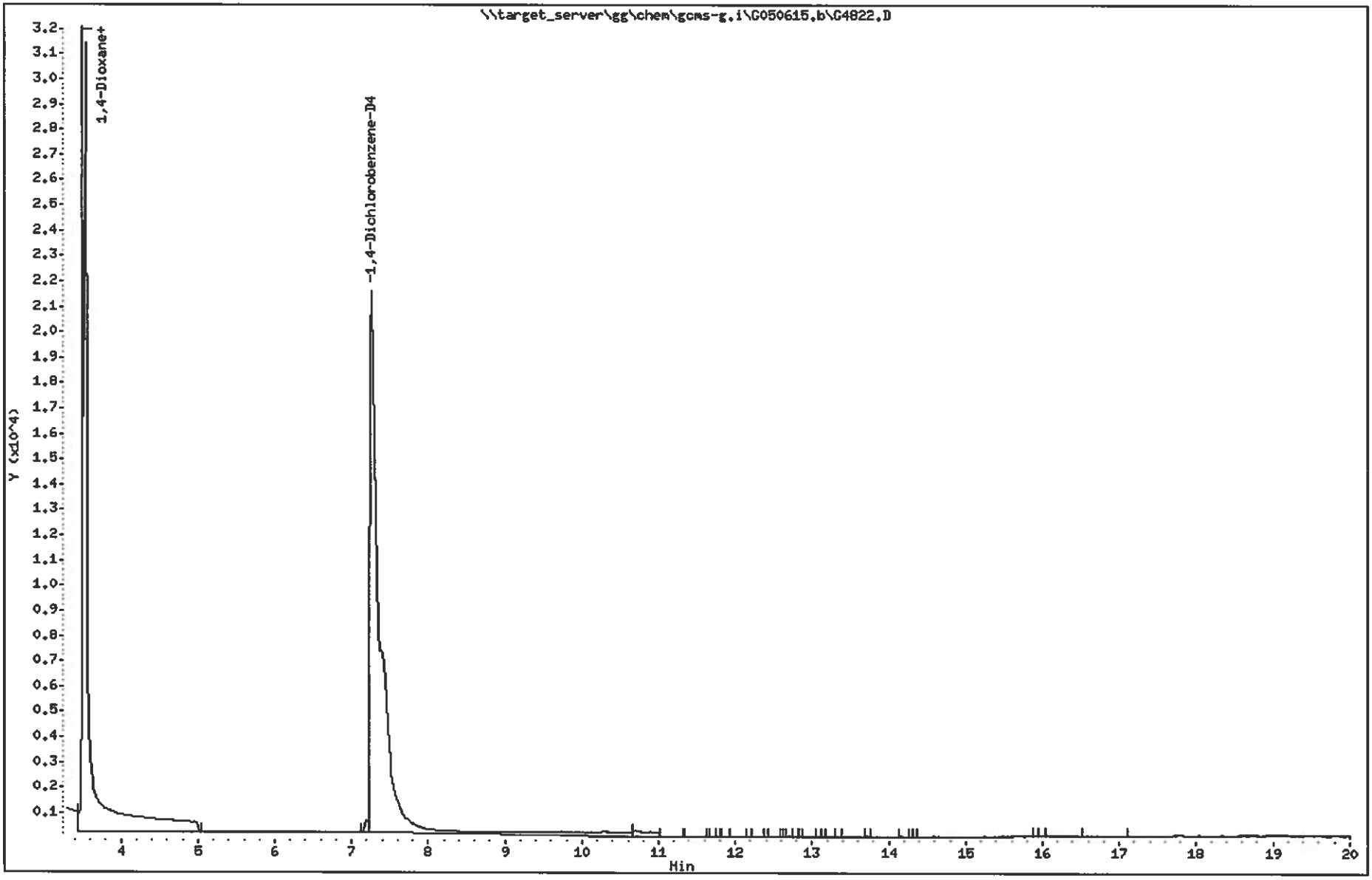
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	88	3.540	3.525	(0.487)	37299	1.00000	1.01	
$	2 1,4-Dioxane-D8	96	3.496	3.482	(0.481)	34951	1.00000	1.06	
*	3 1,4-Dichlorobenzene-D4	150	7.268	7.282	(1.000)	88050	0.80000	(a)	

QC Flag Legend

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

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4822.D
Date : 06-MAY-2015 13:20
Client ID:
Sample Info: WG162346-4
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000120

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4823.D
Report Date: 07-May-2015 08:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G050615.b\G4823.D
Lab Smp Id: WG162346-2
Inj Date : 06-MAY-2015 13:47 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG162346-2
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G050615.b\GDIOXN54.m
Meth Date : 06-May-2015 16:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 13:47 Cal File: G4823.D
Als bottle: 3 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.542	3.525	(0.486)	8803	0.25000	0.259	
$ 2 1,4-Dioxane-D8	96	3.513	3.482	(0.482)	6864	0.25000	0.225	
* 3 1,4-Dichlorobenzene-D4	150	7.283	7.282	(1.000)	81334	0.80000	(a)	

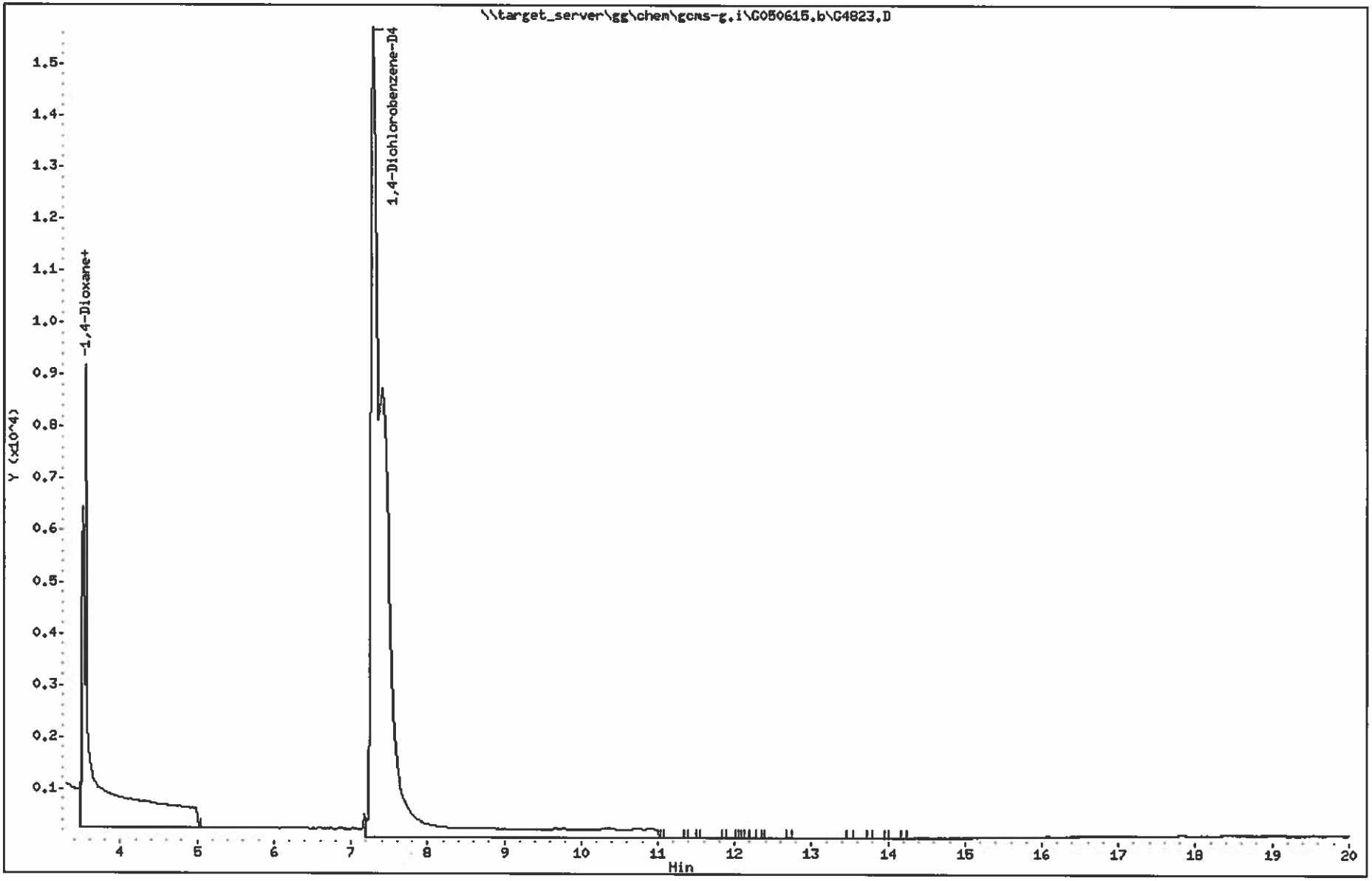
QC Flag Legend

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

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4823.D
Date : 06-MAY-2015 13:47
Client ID:
Sample Info: WG162346-2
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i

Operator: JCC
Column diameter: 0.25



Katahdin Analytical Services 0000122

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4824.D
Report Date: 07-May-2015 08:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G050615.b\G4824.D
Lab Smp Id: WG162346-3
Inj Date : 06-MAY-2015 14:14 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG162346-3
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G050615.b\GDIOXN54.m
Meth Date : 06-May-2015 16:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 14:14 Cal File: G4824.D
Als bottle: 4 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.540	3.525	(0.485)	16065	0.50000	0.485	
$ 2 1,4-Dioxane-D8	96	3.497	3.482	(0.479)	14005	0.50000	0.472	
* 3 1,4-Dichlorobenzene-D4	150	7.298	7.282	(1.000)	79167	0.80000	(aM)	M9

QC Flag Legend

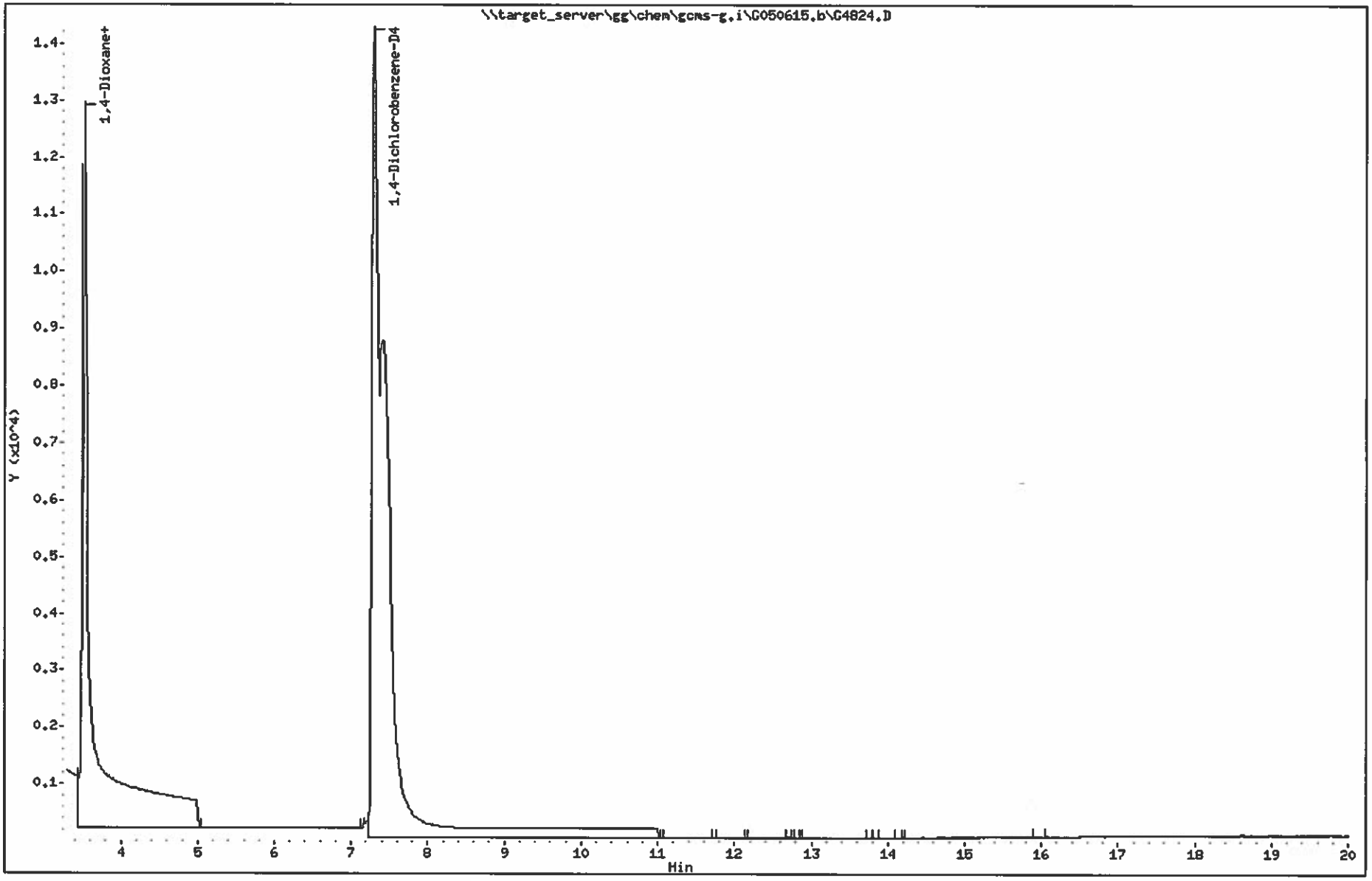
a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
M - Compound response manually integrated.

JCG

10:28 am, Jun 29, 2015

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4824.D
Date : 06-MAY-2015 14:14
Client ID:
Sample Info: WG162346-3
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000124

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4825.D
Report Date: 07-May-2015 08:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G050615.b\G4825.D
Lab Smp Id: WG162346-5
Inj Date : 06-MAY-2015 14:42 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG162346-5
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G050615.b\GDIOXN54.m
Meth Date : 06-May-2015 16:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 14:42 Cal File: G4825.D
Als bottle: 5 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

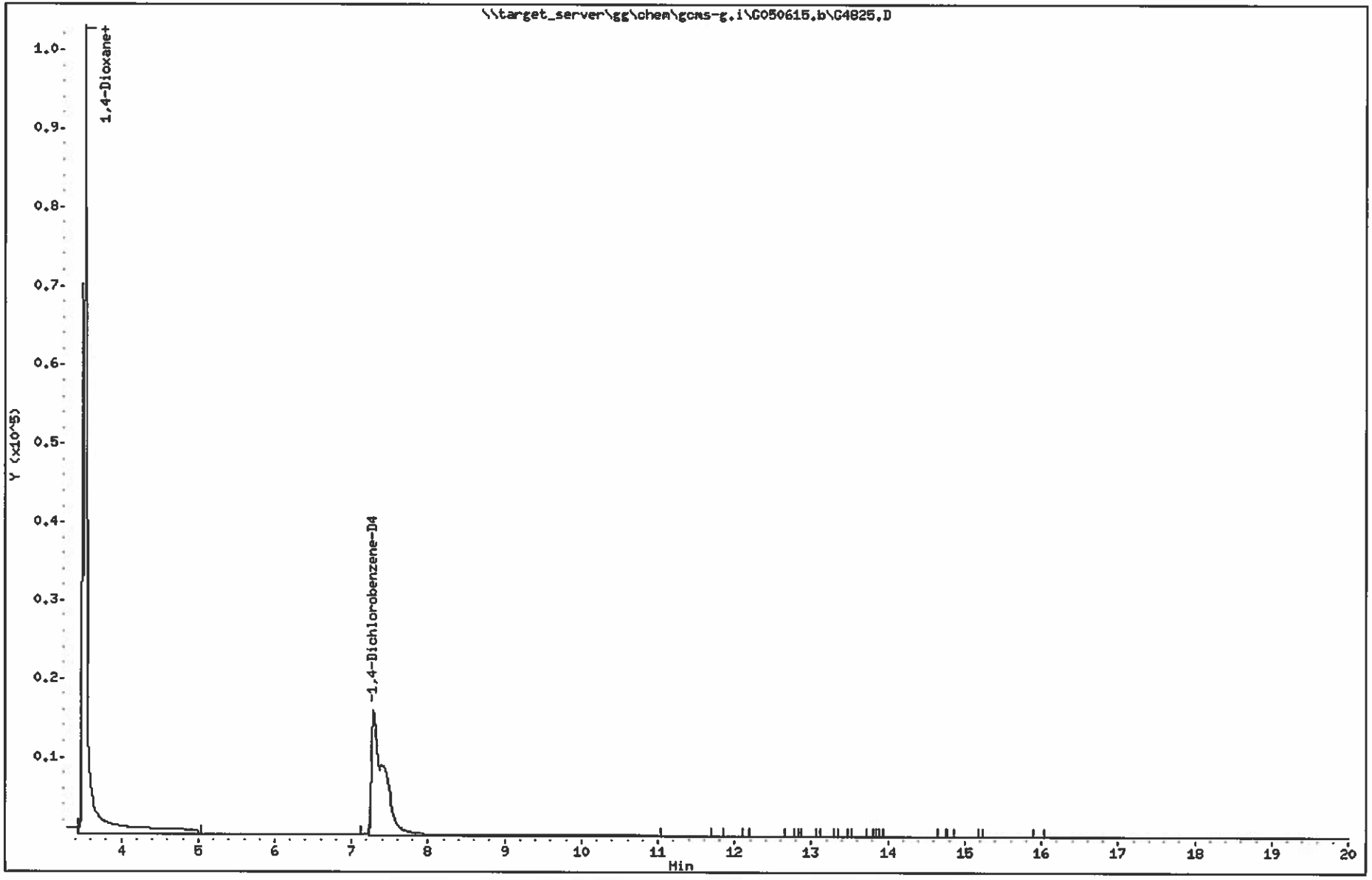
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
	1 1,4-Dioxane	88	3.526	3.525	(0.484)	110396	3.00000	3.17	
$	2 1,4-Dioxane-D8	96	3.497	3.482	(0.480)	93092	3.00000	2.98	
*	3 1,4-Dichlorobenzene-D4	150	7.282	7.282	(1.000)	83316	0.80000	(a)	

QC Flag Legend

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

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4825.D
Date : 06-MAY-2015 14:42
Client ID:
Sample Info: WG162346-5
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000126

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4826.D
Report Date: 07-May-2015 08:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G050615.b\G4826.D
Lab Smp Id: WG162346-6
Inj Date : 06-MAY-2015 15:09 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG162346-6
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G050615.b\GDIOXN54.m
Meth Date : 06-May-2015 16:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 15:09 Cal File: G4826.D
Als bottle: 6 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

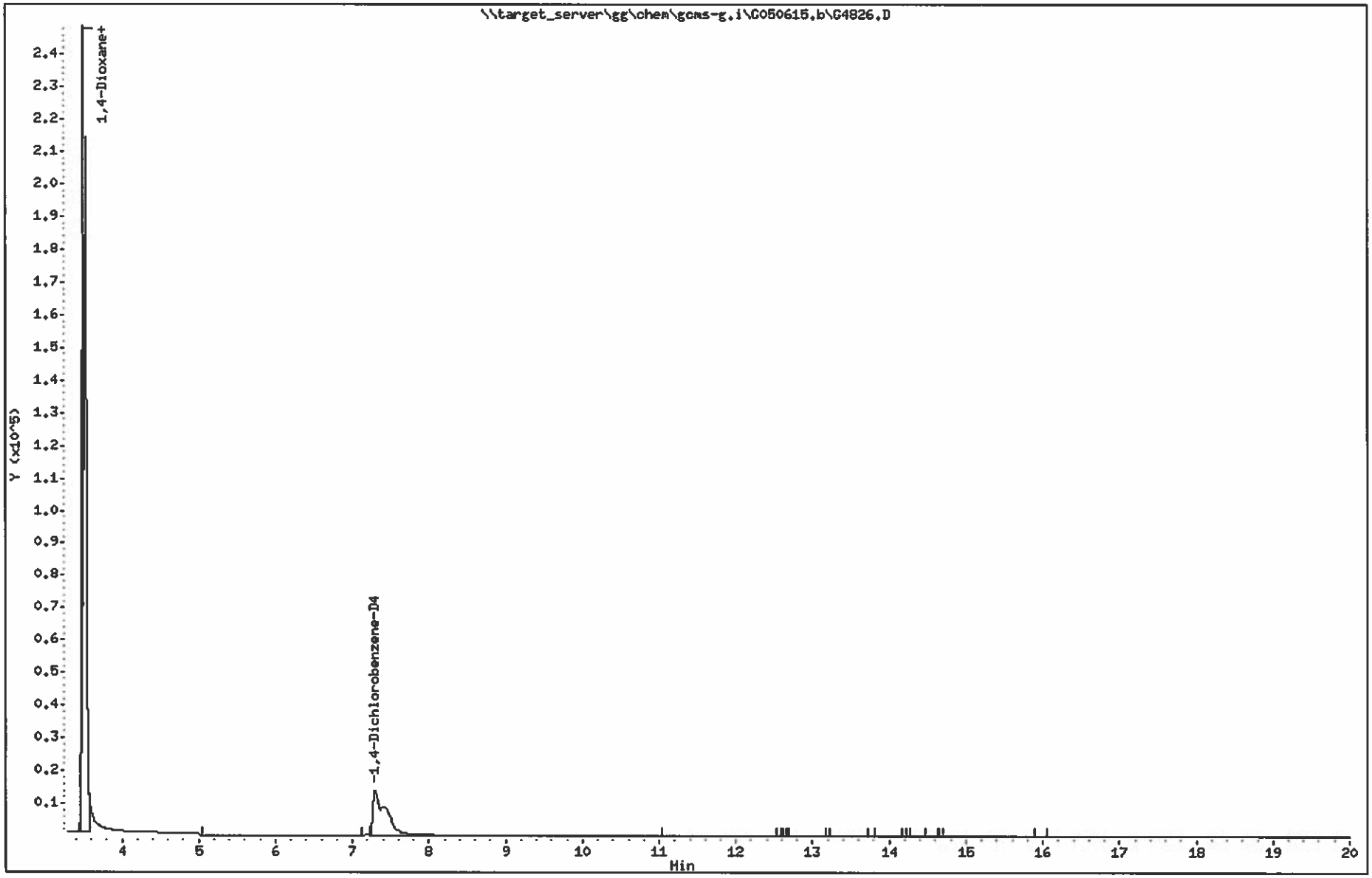
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.527	3.525	(0.484)	224978	7.00000	6.83	
$ 2 1,4-Dioxane-D8	96	3.484	3.482	(0.478)	225152	7.00000	7.63	
* 3 1,4-Dichlorobenzene-D4	150	7.282	7.282	(1.000)	78714	0.80000	(a)	

QC Flag Legend

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

Data File: \\target_server\gg\chem\gcms-g.i\C050615.b\C4826.D
Date : 06-MAY-2015 15:09
Client ID:
Sample Info: WC162346-6
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000128

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4827.D
Report Date: 07-May-2015 08:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G050615.b\G4827.D
Lab Smp Id: WG162346-7
Inj Date : 06-MAY-2015 15:55 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG162346-7
Misc Info :
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G050615.b\GDIOXN54.m
Meth Date : 06-May-2015 16:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 15:55 Cal File: G4827.D
Als bottle: 7 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

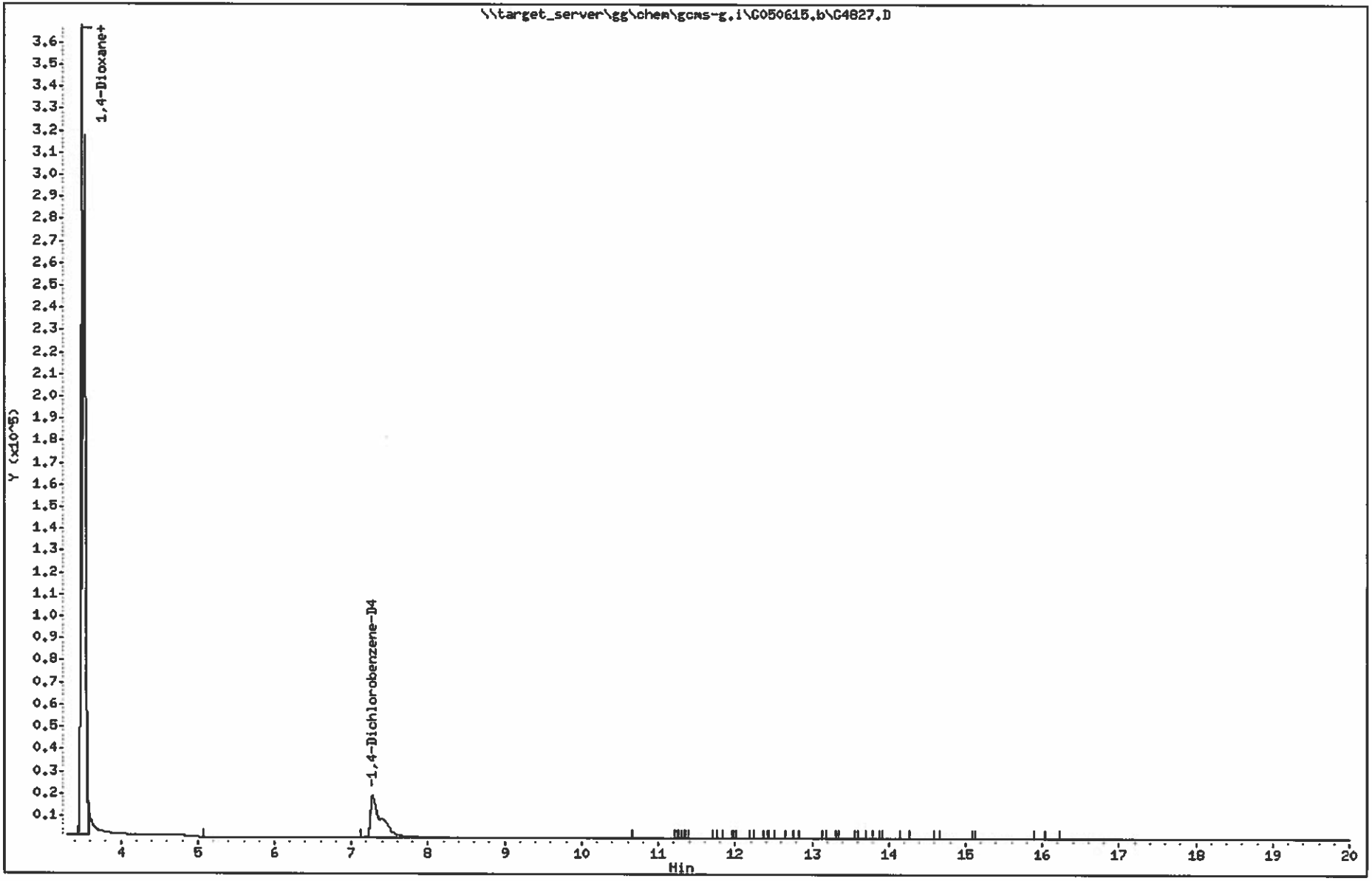
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.525	3.525	(0.484)	345899	10.0000	9.48	
$ 2 1,4-Dioxane-D8	96	3.482	3.482	(0.478)	330363	10.0000	10.1(A)	
* 3 1,4-Dichlorobenzene-D4	150	7.282	7.282	(1.000)	87207	0.80000	(a)	

QC Flag Legend

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

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4827.D
Date : 06-MAY-2015 15:55
Client ID:
Sample Info: WG162346-7
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000130

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4828.D
Report Date: 18-May-2015 14:41

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G050615.b\G4828.D
Lab Smp Id: WG162346-8
Inj Date : 06-MAY-2015 16:22 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG162346-8,ELMET-01
Misc Info : WG162346,WG162346,WG162346-4,SI3023-1
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G050615.b\GDIOXN54.m
Meth Date : 06-May-2015 16:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 15:55 Cal File: G4827.D
Als bottle: 8 QC Sample: INDCHECK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

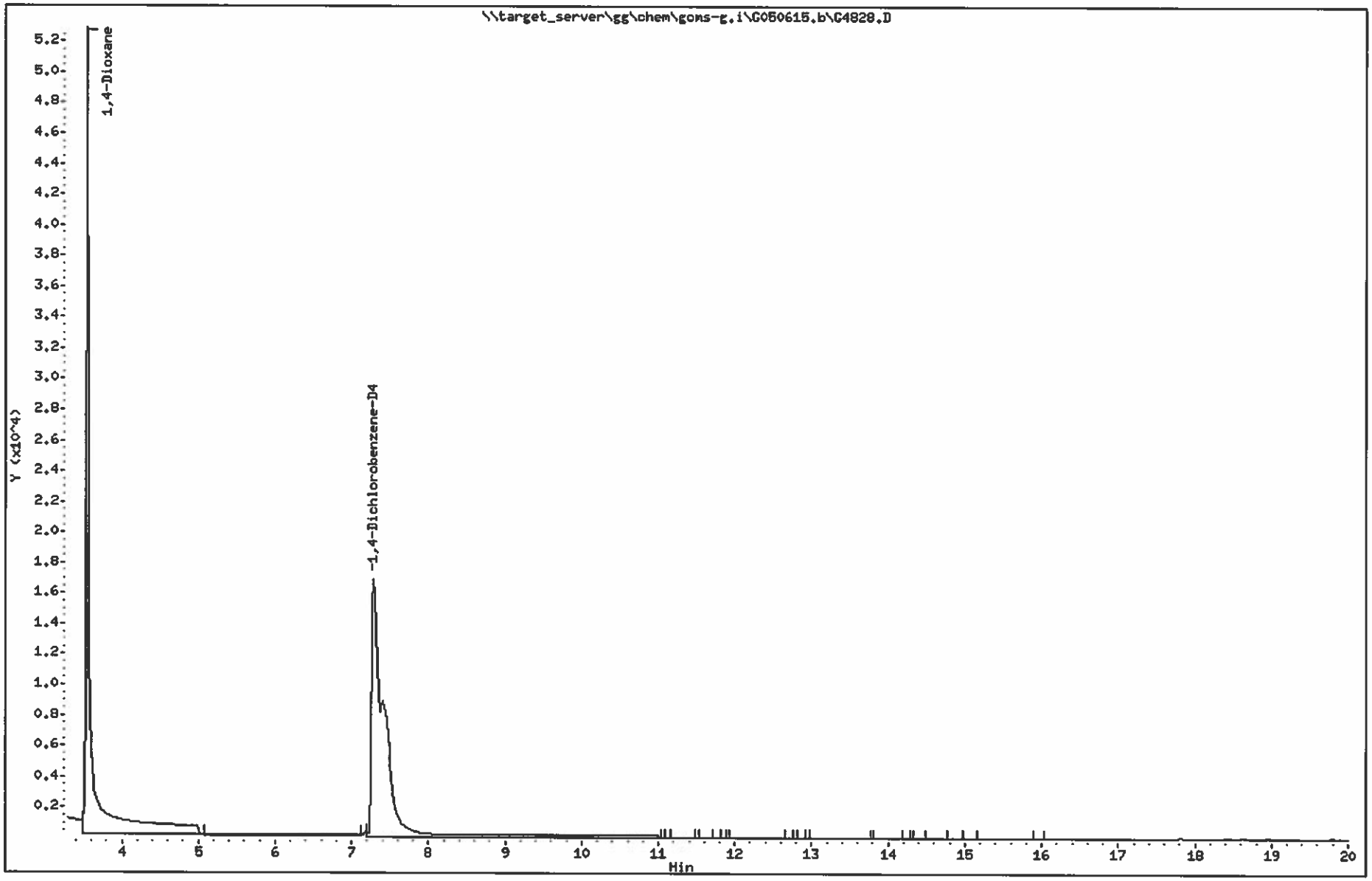
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.541	3.525	(0.486)	73141	2.06166	2.06	
* 3 1,4-Dichlorobenzene-D4	150	7.282	7.282	(1.000)	84838	0.80000	(a)	

QC Flag Legend

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

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4828.D
Date : 06-MAY-2015 16:22
Client ID:
Sample Info: WG162346-8,ELMET-01
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCC
Column diameter: 0.25

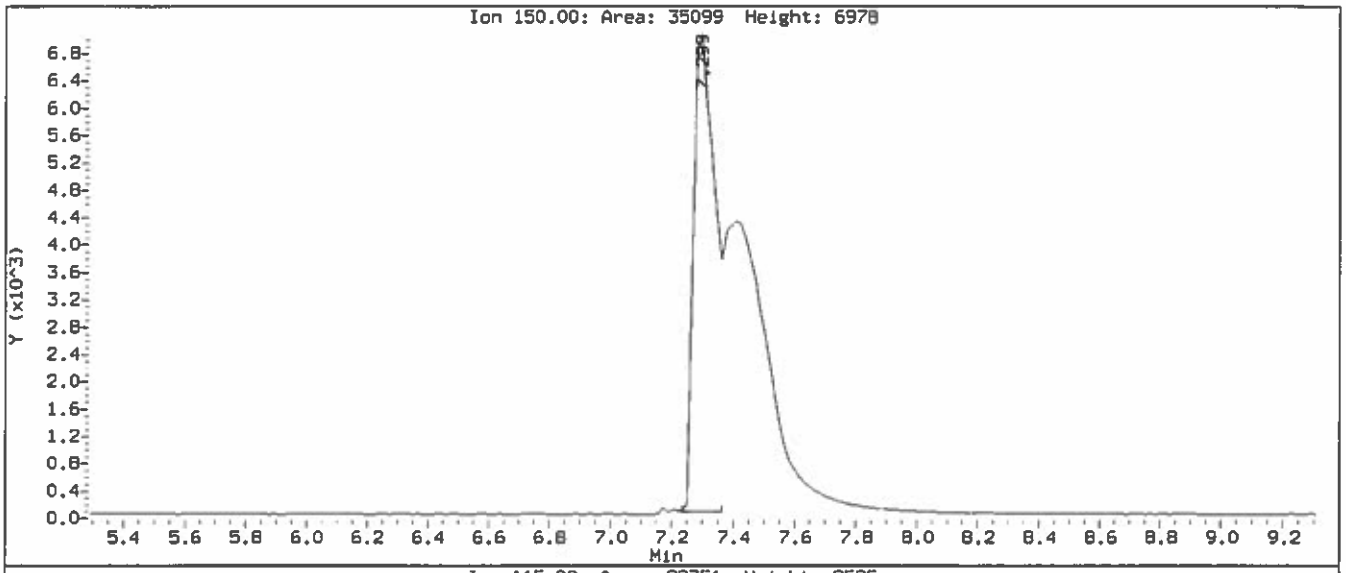


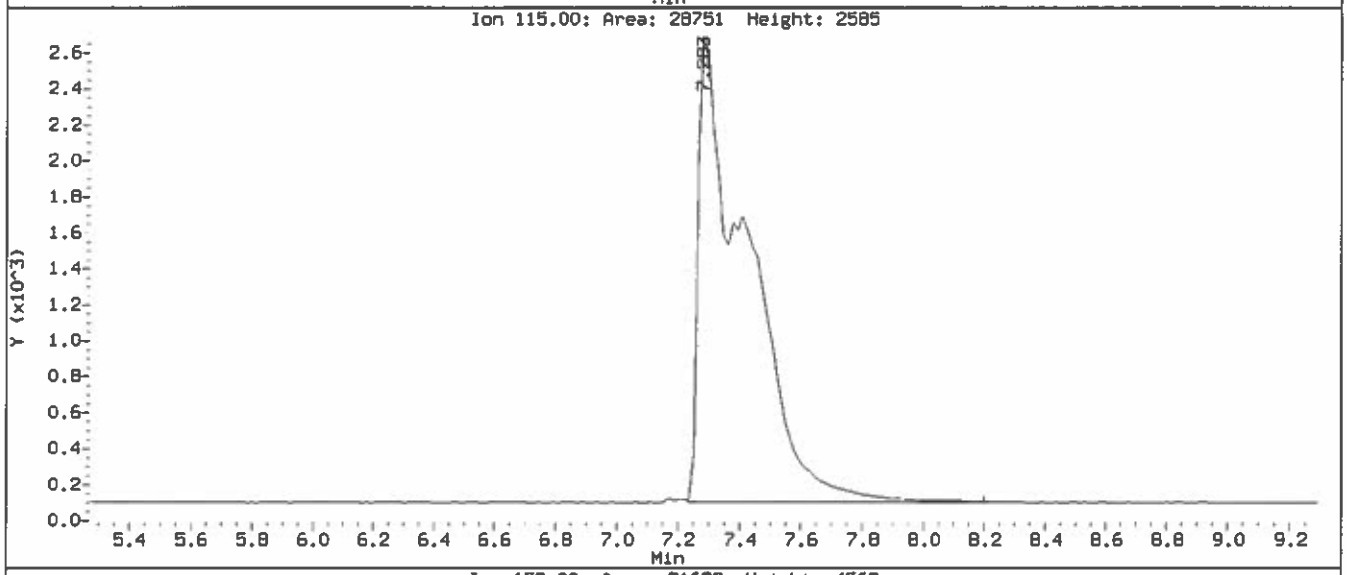
Katahdin Analytical Services 0000132

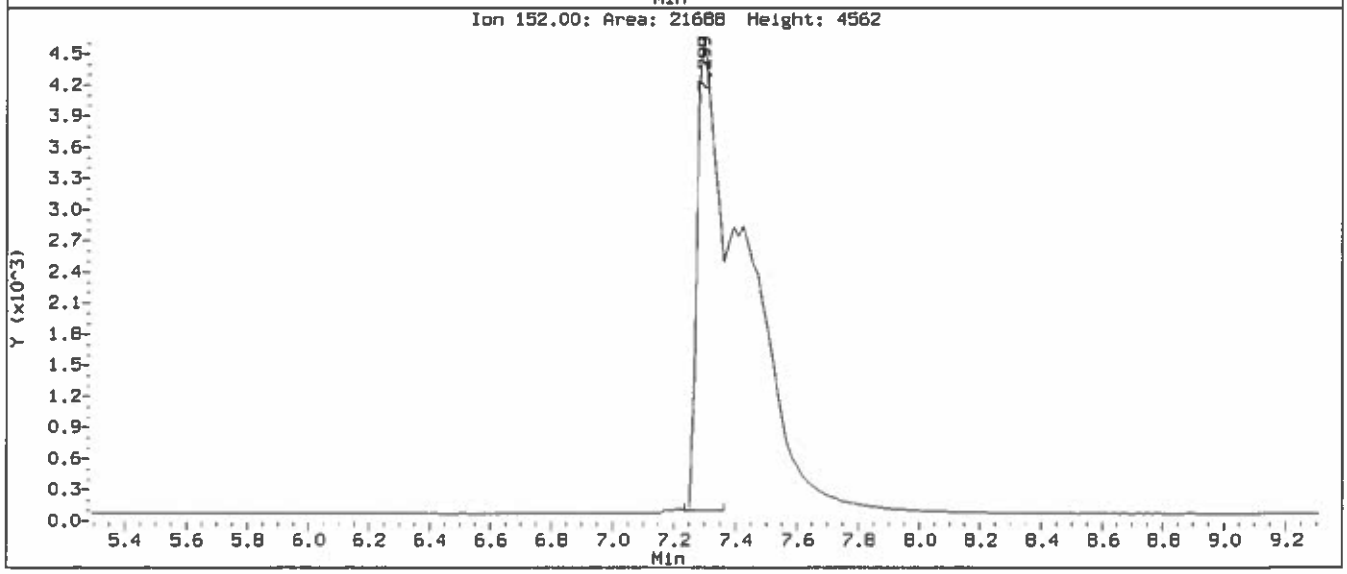
Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4824.D
Injection Date: 06-MAY-2015 14:14
Instrument: gcms-g.i
Client Sample ID:

Compound: 1,4-Dichlorobenzene-D4
CAS Number: 3855-82-1

BEFORE MANUAL INTEGRATION



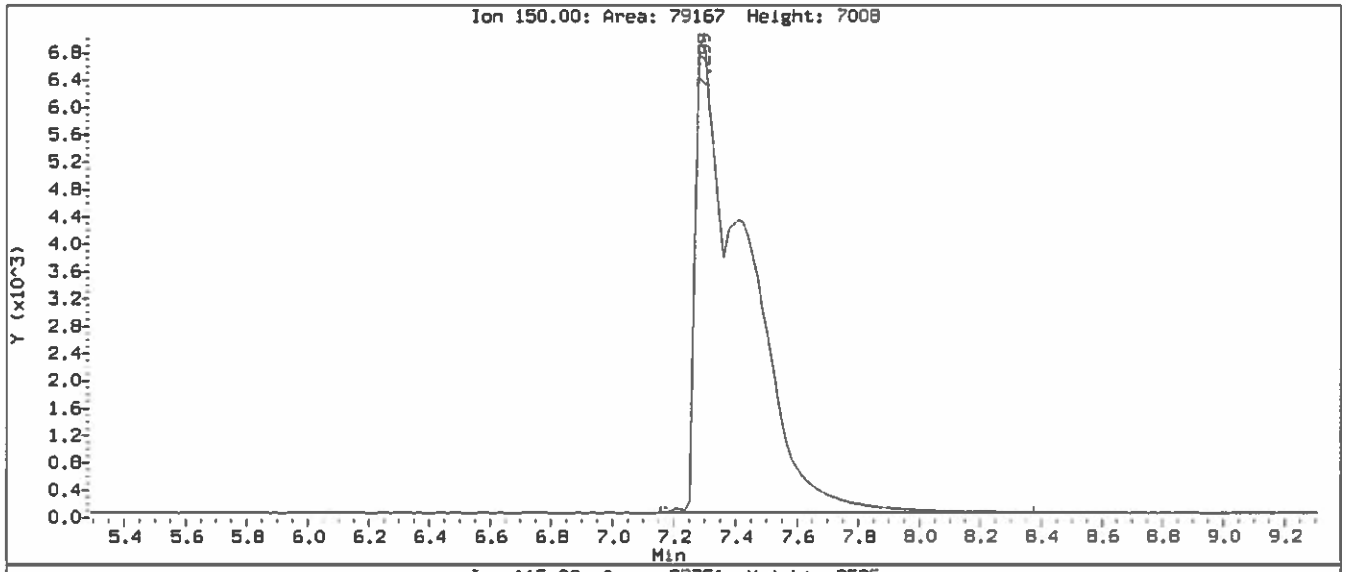


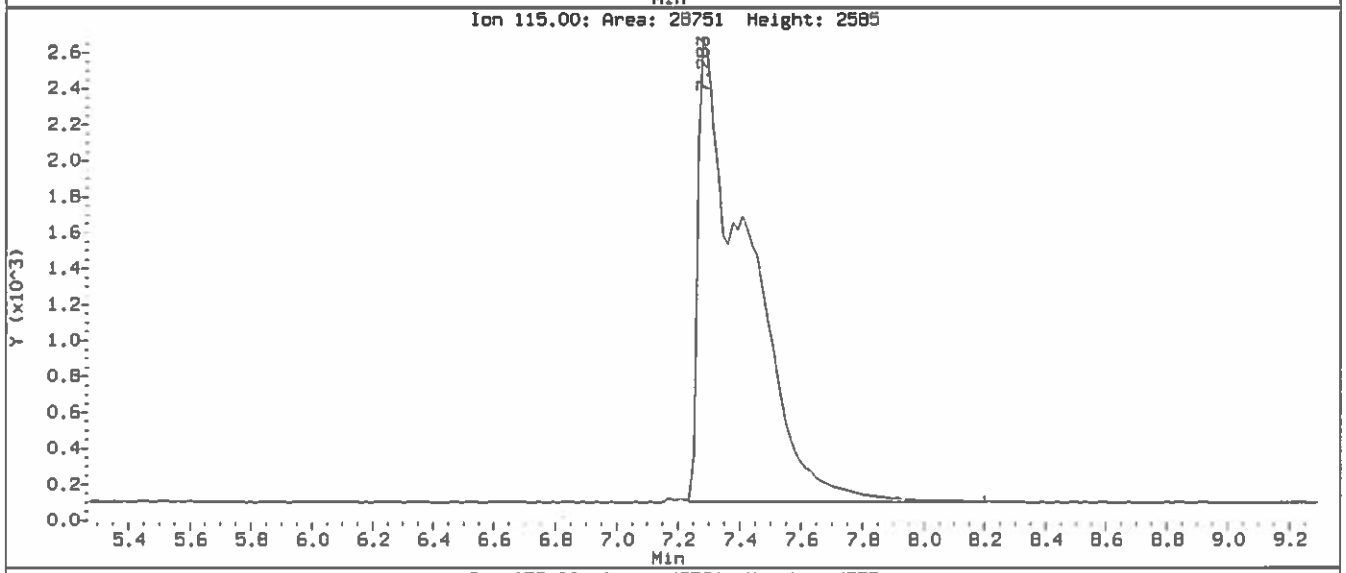


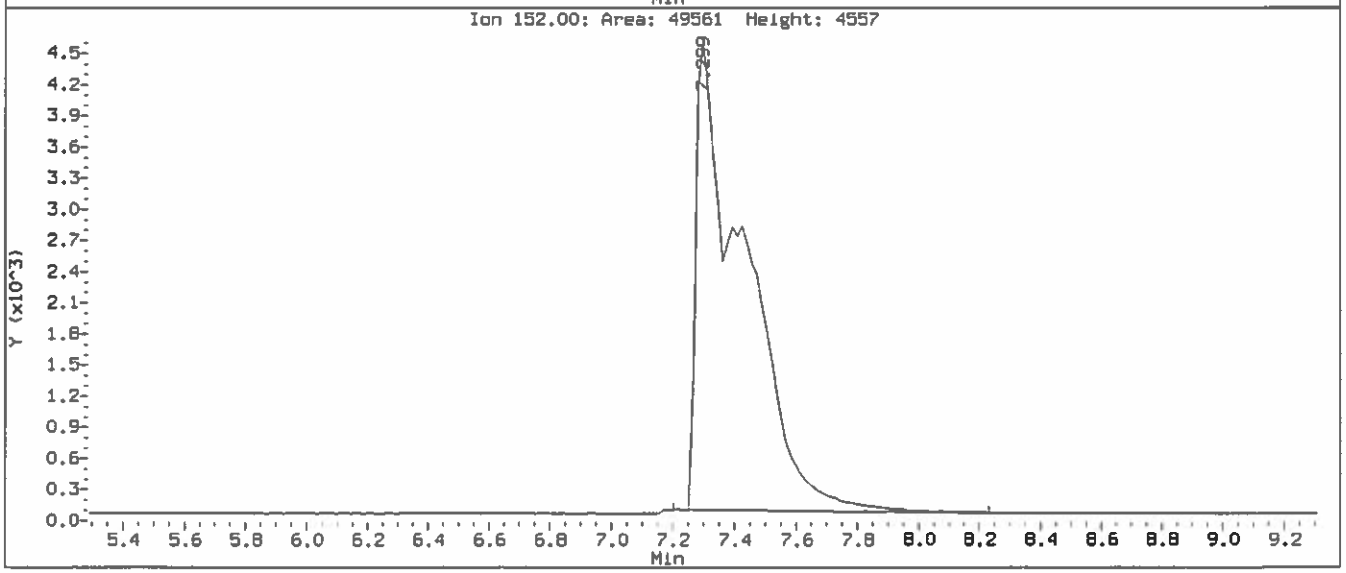
Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\G4824.D
Injection Date: 06-MAY-2015 14:14
Instrument: gcms-g.i
Client Sample ID:

Compound: 1,4-Dichlorobenzene-D4
CAS Number: 3855-82-1

AFTER MANUAL INTEGRATION







Katahdin
ANALYTICAL SERVICES

Cert No E87604

Form 7
Calibration Verification Summary

Lab Name : Katahdin Analytical Services
Project : Navy Clean WE15-03-06 NWIR
SDG: SI4000
Lab ID : WG164931-2
Analytical Date: 06/17/15 11:57
Lab File ID : G5072.D
Instrument ID: GCMS-G
Initial Calibration Date(s): 05/06/15 11:11 05/06/15 15:55
Column ID:

Compound	$\overline{RRF}$/Amount	RF1	Min RRF	%D/ %Drift	Max %D/ %Drift	Curve Type
1 1,4-Dioxane	0.33454	0.39504	0.010	18.08626	20.00000	Averaged
2 1,4-Dioxane-D8	0.29976	0.32658	0.010	8.94692	20.00000	Averaged

*** = Compound out of QC criteria**

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

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

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\G5072.D
Report Date: 29-Jun-2015 10:23

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G061715.b\G5072.D
Lab Smp Id: WG164931-2
Inj Date : 17-JUN-2015 11:57 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG164931-2,SI4000
Misc Info : WG164931,WG164931,WG162346-4,SI4000-1
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G061715.b\GDIOXN54.m
Meth Date : 17-Jun-2015 12:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 15:55 Cal File: G4827.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

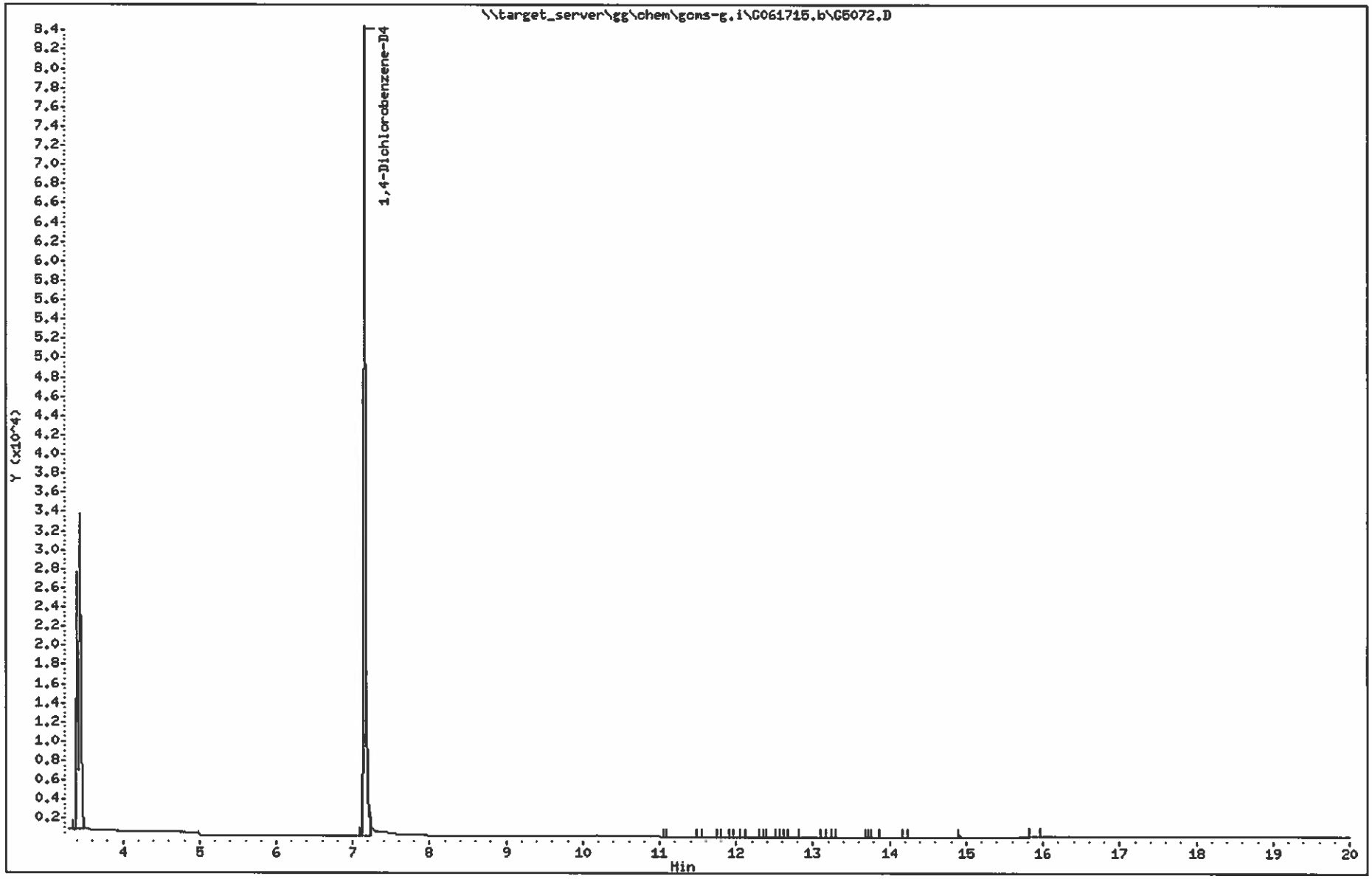
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/ml)	AMOUNTS ON-COL (ug/ml)	REVIEW CODE
1 1,4-Dioxane	88	3.439	3.439	(0.481)	27006	1.00000	1.18	
$ 2 1,4-Dioxane-D8	96	3.411	3.411	(0.477)	22326	1.00000	1.09	
* 3 1,4-Dichlorobenzene-D4	150	7.156	7.156	(1.000)	54690	0.80000	(a)	

QC Flag Legend

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

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\G5072.D
Date : 17-JUN-2015 11:57
Client ID:
Sample Info: WG164931-2,SI4000
Purge Volume: 1.0
Column phase: RTX5-MS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000137

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\GD606.D

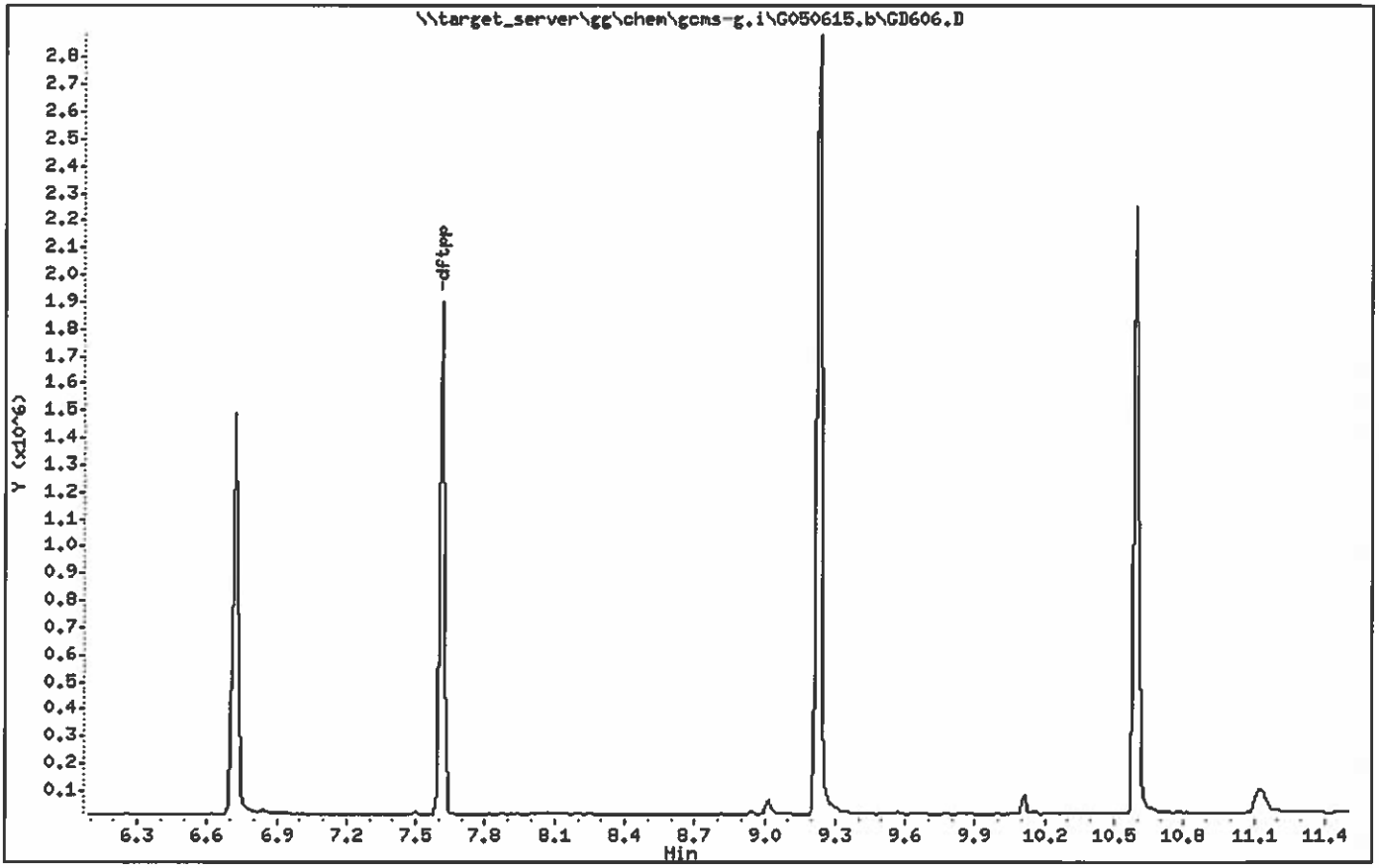
Date : 06-MAY-2015 10:51

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG162346-1,SI4000

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25



Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\GD606.D

Date : 06-MAY-2015 10:51

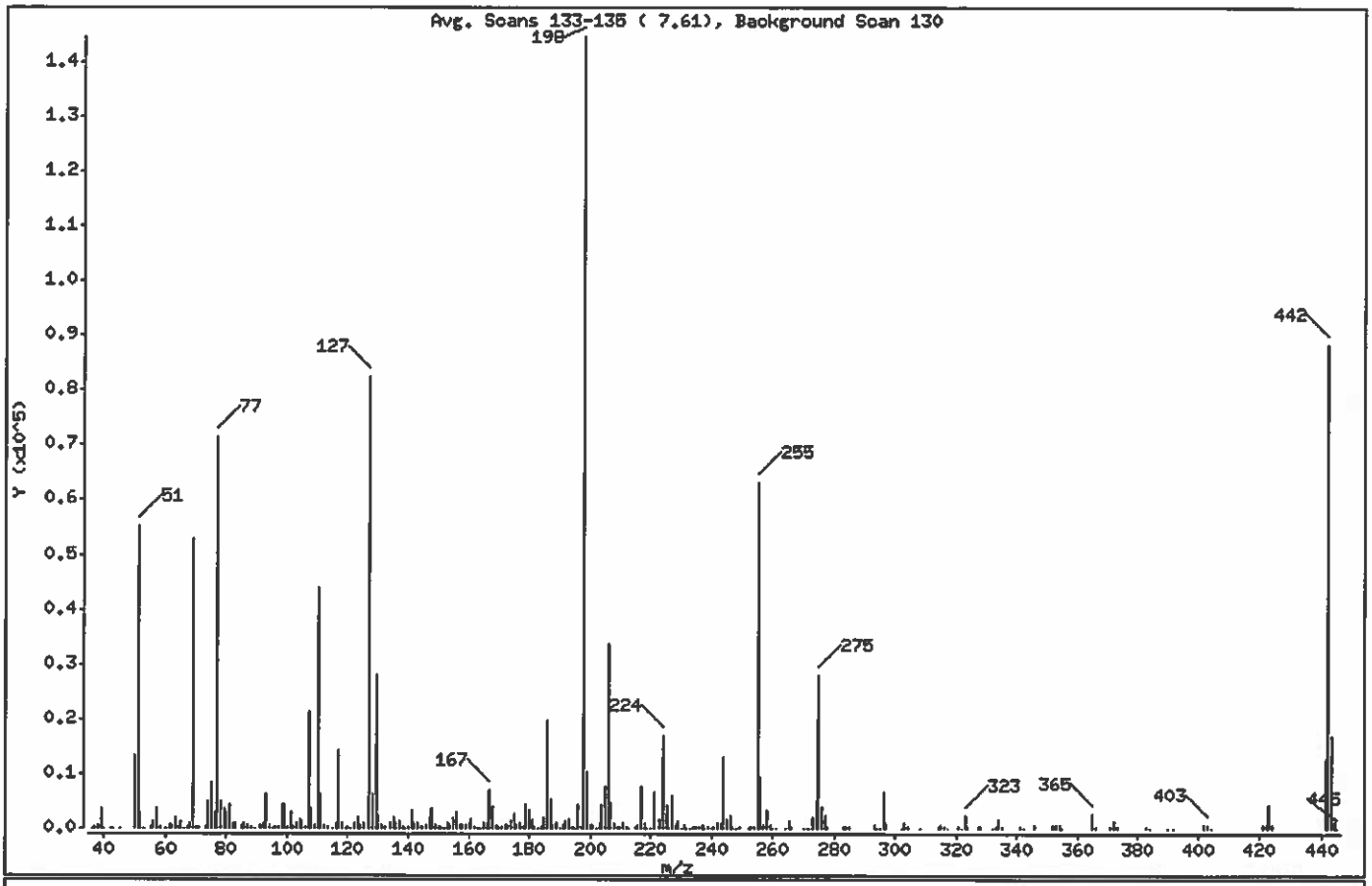
Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG162346-1,SI4000

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	38.22
68	Less than 2.00% of mass 69	0.59 (1.61)
69	Less than 100.00% of mass 198	36.48
70	Less than 2.00% of mass 69	0.25 (0.70)
127	40.00 - 60.00% of mass 198	57.00
197	Less than 1.00% of mass 198	0.28
199	5.00 - 9.00% of mass 198	7.19
275	10.00 - 30.00% of mass 198	19.35
365	1.00 - 100.00% of mass 198	1.77
441	0.01 - 100.00% of mass 443	8.64 (74.05)
442	40.00 - 100.00% of mass 198	61.25
443	17.00 - 23.00% of mass 442	11.67 (19.05)

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\GD606.D

Date : 06-MAY-2015 10:51

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WC162346-1,SI4000

Operator: JCG

Column phase: RTX-5SILHS Column diameter: 0.25

Data File: GD606.D

Spectrum: Avg. Scans 133-135 (7.61), Background Scan 130

Location of Maximum: 198.00

Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	112	117.00	14239	188.00	538	261.00	51
37.00	210	118.00	1079	189.00	1051	264.00	127
38.00	519	119.00	98	190.00	81	265.00	1337
39.00	3532	120.00	197	191.00	569	266.00	284
40.00	57	121.00	151	192.00	1490	270.00	57
42.00	131	122.00	1074	193.00	1731	271.00	113
43.00	14	123.00	1983	194.00	260	272.00	88
45.00	126	124.00	817	195.00	110	273.00	1928
50.00	13153	125.00	987	196.00	4163	274.00	5112
51.00	55264	127.00	82408	197.00	409	275.00	27976
52.00	3107	128.00	6241	198.00	144576	276.00	3884
53.00	123	129.00	28008	199.00	10398	277.00	2276
55.00	243	130.00	2436	200.00	793	278.00	379
56.00	1488	131.00	543	201.00	818	283.00	240
57.00	3689	132.00	286	202.00	68	284.00	186
58.00	193	134.00	832	203.00	834	285.00	379
60.00	106	135.00	2094	204.00	4411	293.00	500
61.00	607	136.00	973	205.00	7536	294.00	59
62.00	798	137.00	1227	206.00	33496	295.00	68
63.00	2080	138.00	373	207.00	4757	296.00	6756
64.00	269	139.00	55	208.00	1009	297.00	888
65.00	1174	140.00	247	209.00	289	302.00	64
66.00	59	141.00	3432	210.00	320	303.00	832
67.00	253	142.00	1014	211.00	1101	304.00	307
68.00	849	143.00	931	212.00	198	308.00	51
69.00	52744	144.00	220	213.00	64	314.00	393
70.00	367	145.00	231	215.00	247	315.00	761
71.00	206	146.00	547	216.00	616	316.00	343
73.00	406	147.00	1880	217.00	7719	317.00	72
74.00	4991	148.00	3542	218.00	1041	321.00	176
75.00	8416	149.00	769	219.00	57	322.00	66
76.00	2842	150.00	195	220.00	97	323.00	2342
77.00	71616	151.00	465	221.00	6635	324.00	439
78.00	4924	152.00	57	223.00	1673	327.00	461
79.00	3508	153.00	1028	224.00	16824	328.00	196

Data File: \\target_server\gg\chem\gcms-g.i\G050615.b\GD606.D

Date : 06-MAY-2015 10:51

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG162346-1,SI4000

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: GD606.D

Spectrum: Avg. Scans 133-135 (7.61), Background Scan 130

Location of Maximum: 198.00

Number of points: 274

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	2864	154.00	750	225.00	4257	332.00	134
81.00	4291	155.00	1961	226.00	373	333.00	215
82.00	1146	156.00	3082	227.00	6033	334.00	1571
83.00	1037	157.00	710	228.00	757	335.00	491
85.00	723	158.00	574	229.00	1325	341.00	261
86.00	901	159.00	569	230.00	146	342.00	57
87.00	536	160.00	960	231.00	543	346.00	594
88.00	205	161.00	1636	232.00	65	352.00	586
89.00	135	162.00	421	233.00	115	353.00	578
91.00	748	163.00	113	234.00	353	354.00	681
92.00	972	164.00	98	235.00	364	355.00	64
93.00	6160	165.00	1046	236.00	202	365.00	2565
94.00	530	166.00	959	237.00	551	366.00	437
95.00	154	167.00	6822	238.00	51	371.00	262
96.00	387	168.00	4014	239.00	220	372.00	1182
97.00	216	169.00	600	240.00	165	373.00	308
98.00	4452	170.00	221	241.00	373	383.00	371
99.00	4170	171.00	323	242.00	918	384.00	110
100.00	411	172.00	557	243.00	935	390.00	147
101.00	2888	173.00	753	244.00	13040	392.00	50
102.00	172	174.00	1346	245.00	1751	402.00	526
103.00	837	175.00	2586	246.00	2241	403.00	665
104.00	1525	176.00	664	247.00	463	404.00	83
105.00	1321	177.00	1078	248.00	65	421.00	572
106.00	493	178.00	351	249.00	411	422.00	540
107.00	21384	179.00	4472	252.00	73	423.00	4244
108.00	3555	180.00	3442	253.00	263	424.00	704
109.00	578	181.00	1558	254.00	345	441.00	12494
110.00	43904	182.00	224	255.00	63256	442.00	88560
111.00	6252	183.00	130	256.00	9401	443.00	16872
112.00	718	184.00	374	257.00	733	444.00	1487
113.00	196	185.00	2120	258.00	3281	445.00	69
115.00	105	186.00	19680	259.00	601		
116.00	1062	187.00	5397	260.00	74		

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\GD628.D

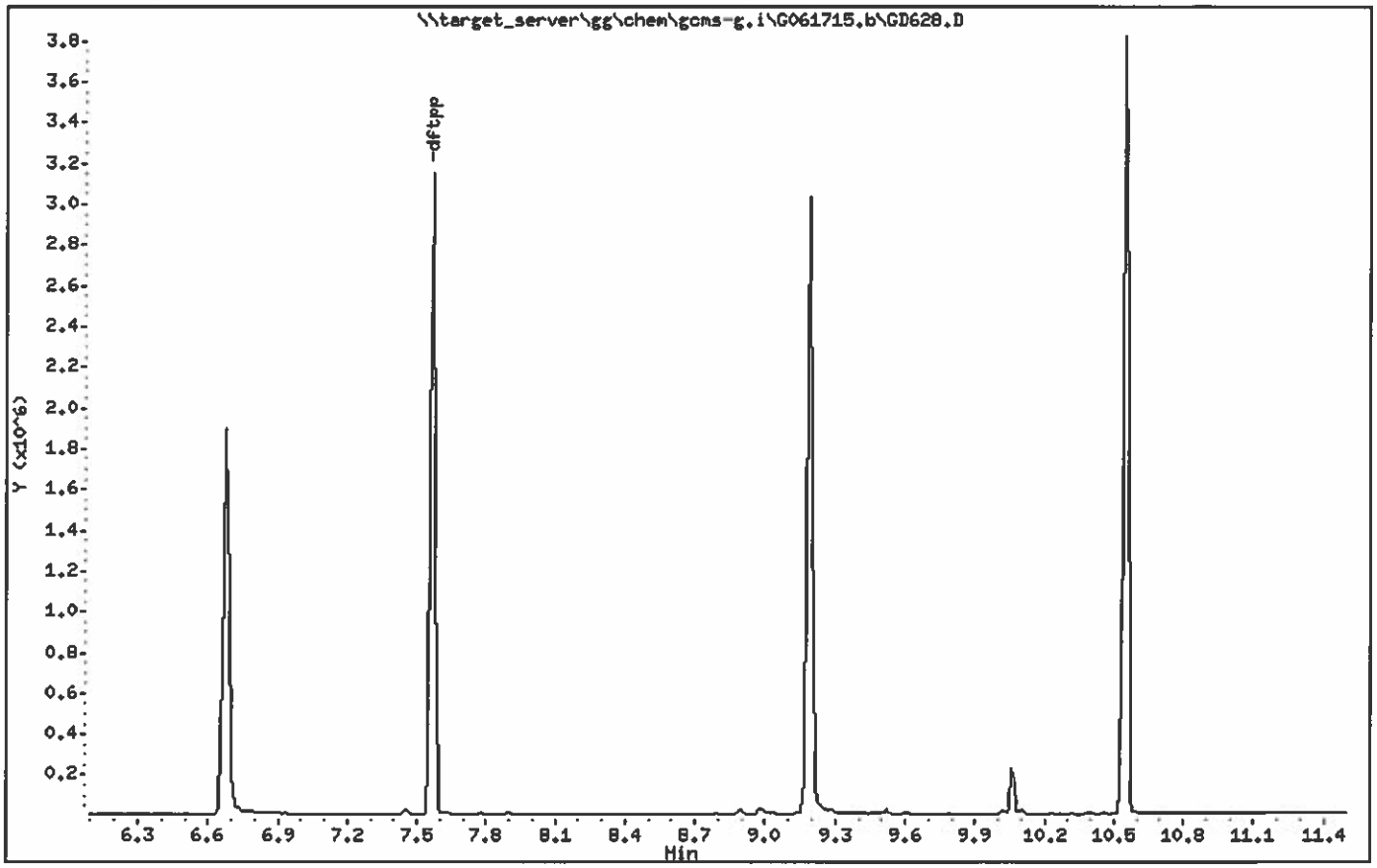
Date : 17-JUN-2015 11:35

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG164931-1,SI4000

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25



Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\GD628.D

Date : 17-JUN-2015 11:35

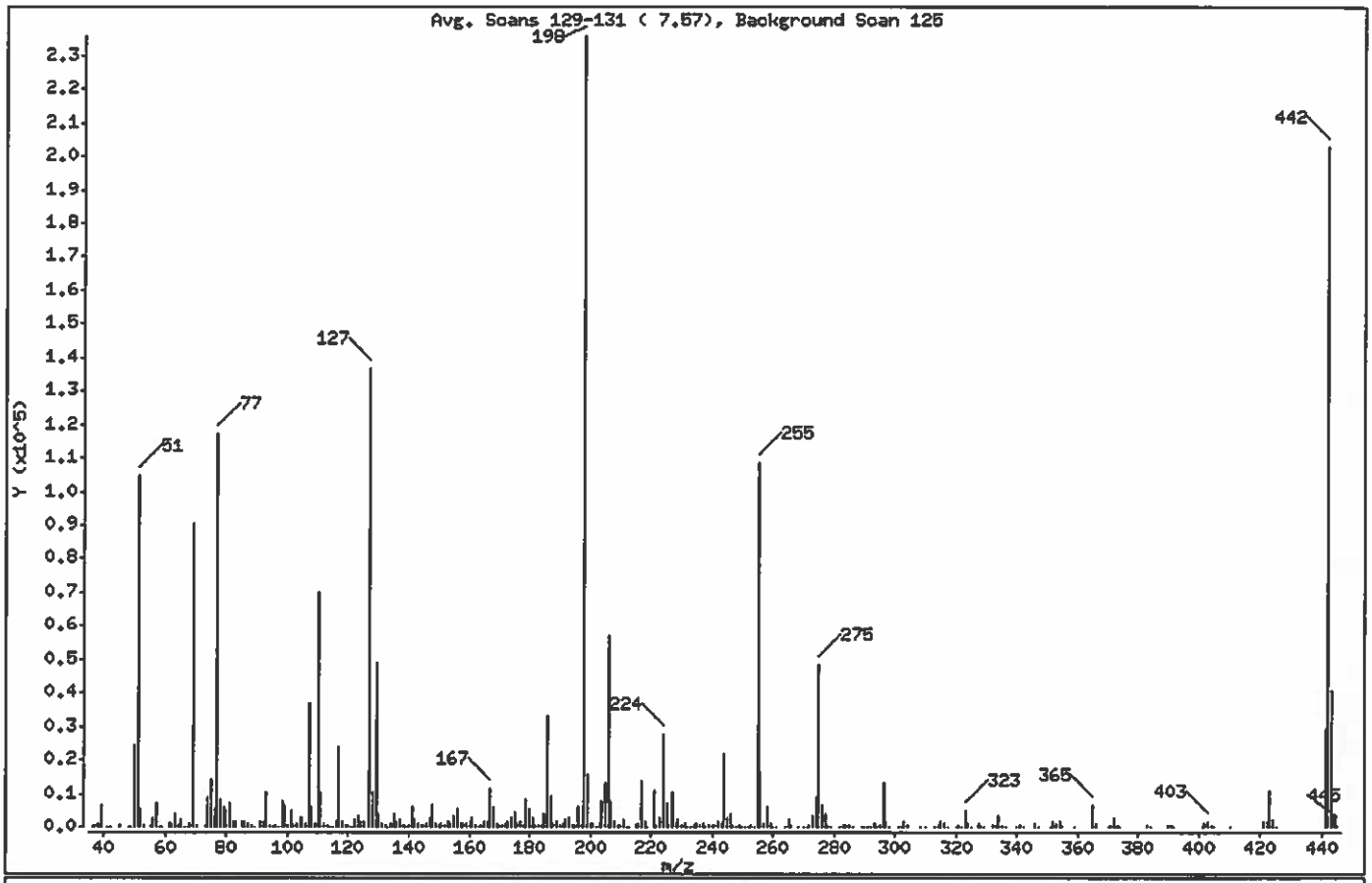
Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WC164931-1,SI4000

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

1 dftpp



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
51	30.00 - 60.00% of mass 198	44.27
68	Less than 2.00% of mass 69	0.54 (1.42)
69	Less than 100.00% of mass 198	38.40
70	Less than 2.00% of mass 69	0.23 (0.59)
127	40.00 - 60.00% of mass 198	57.83
197	Less than 1.00% of mass 198	0.17
199	5.00 - 9.00% of mass 198	6.73
275	10.00 - 30.00% of mass 198	20.39
365	1.00 - 100.00% of mass 198	2.67
441	0.01 - 100.00% of mass 443	12.38 (71.53)
442	40.00 - 100.00% of mass 198	86.05
443	17.00 - 23.00% of mass 442	17.31 (20.12)

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\GD628.D

Date : 17-JUN-2015 11:35

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG164931-1,SI4000

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: GD628.D

Spectrum: Avg. Scans 129-131 (7.57), Background Scan 125

Location of Maximum: 198.00

Number of points: 305

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	41	124.00	1427	202.00	179	289.00	145
37.00	441	125.00	1588	203.00	1348	290.00	65
38.00	1049	127.00	136384	204.00	7503	291.00	61
39.00	6658	128.00	10272	205.00	13013	292.00	203
41.00	84	129.00	49024	206.00	56808	293.00	969
42.00	51	130.00	3983	207.00	7465	294.00	106
45.00	292	131.00	943	208.00	1549	295.00	300
48.00	66	132.00	523	209.00	590	296.00	13081
49.00	136	133.00	184	210.00	698	297.00	1629
50.00	24232	134.00	1168	211.00	2104	298.00	77
51.00	104416	135.00	3781	212.00	98	301.00	160
52.00	5315	136.00	1700	213.00	186	302.00	240
53.00	301	137.00	2005	215.00	471	303.00	1689
55.00	353	138.00	465	216.00	1099	304.00	482
56.00	2843	139.00	248	217.00	13327	308.00	186
57.00	7227	140.00	567	218.00	1791	310.00	172
58.00	261	141.00	5868	219.00	151	313.00	55
59.00	102	142.00	2055	221.00	10637	314.00	666
61.00	1252	143.00	1292	222.00	429	315.00	1571
62.00	1322	144.00	345	223.00	2866	316.00	898
63.00	3834	145.00	550	224.00	27832	317.00	184
64.00	596	146.00	948	225.00	6969	320.00	54
65.00	2084	147.00	2964	226.00	662	321.00	476
66.00	119	148.00	6639	227.00	10538	322.00	183
67.00	188	149.00	1275	228.00	1338	323.00	5107
68.00	1284	150.00	419	229.00	2301	324.00	904
69.00	90560	151.00	863	230.00	350	325.00	56
70.00	537	152.00	662	231.00	1033	327.00	878
73.00	570	153.00	1717	232.00	161	328.00	453
74.00	8521	154.00	1243	233.00	127	329.00	54
75.00	14006	155.00	3208	234.00	620	332.00	338
76.00	5225	156.00	5229	235.00	863	333.00	473
77.00	116984	157.00	1010	236.00	455	334.00	3203
78.00	7919	158.00	1031	237.00	942	335.00	732
79.00	5819	159.00	834	238.00	74	336.00	53

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\GD628.D

Date : 17-JUN-2015 11:35

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG164931-1,SI4000

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: GD628.D

Spectrum: Avg. Scans 129-131 (7.57), Background Scan 125

Location of Maximum: 198.00

Number of points: 305

m/z	Y	m/z	Y	m/z	Y	m/z	Y
80.00	4701	160.00	1730	239.00	350	340.00	53
81.00	6914	161.00	2743	240.00	288	341.00	608
82.00	1706	162.00	741	241.00	559	342.00	107
83.00	1883	163.00	212	242.00	1535	346.00	1012
85.00	1375	164.00	314	243.00	1327	347.00	142
86.00	1678	165.00	1823	244.00	21416	351.00	75
87.00	956	166.00	1741	245.00	2783	352.00	1662
88.00	438	167.00	11426	246.00	3792	353.00	964
89.00	195	168.00	5991	247.00	725	354.00	1583
91.00	1427	169.00	1018	248.00	143	355.00	393
92.00	1734	170.00	292	249.00	740	359.00	60
93.00	10410	171.00	551	250.00	197	365.00	6292
94.00	808	172.00	940	251.00	155	366.00	1063
95.00	129	173.00	1451	252.00	229	370.00	220
96.00	729	174.00	2547	253.00	485	371.00	458
97.00	246	175.00	4598	254.00	258	372.00	2903
98.00	7534	176.00	1225	255.00	108672	373.00	720
99.00	6762	177.00	1731	256.00	16070	374.00	51
100.00	573	178.00	717	257.00	1257	383.00	745
101.00	4915	179.00	7952	258.00	5791	384.00	160
102.00	285	180.00	5578	259.00	1049	390.00	381
103.00	1214	181.00	2612	260.00	108	391.00	283
104.00	2546	182.00	398	261.00	164	392.00	64
105.00	2619	183.00	315	264.00	144	401.00	189
106.00	1008	184.00	616	265.00	2064	402.00	1317
107.00	36816	185.00	4046	266.00	433	403.00	1747
108.00	5808	186.00	33304	268.00	168	404.00	594
109.00	1128	187.00	9455	270.00	68	405.00	62
110.00	69816	188.00	954	271.00	259	410.00	53
111.00	10166	189.00	1682	272.00	312	421.00	1547
112.00	1052	190.00	337	273.00	2998	422.00	1436
113.00	345	191.00	824	274.00	8706	423.00	10741
114.00	63	192.00	2280	275.00	48080	424.00	2047
115.00	138	193.00	2761	276.00	6535	425.00	190
116.00	1604	194.00	609	277.00	3696	441.00	29208

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\GD628.D

Date : 17-JUN-2015 11:35

Client ID: DFTPP02 Instrument: gcms-g.i

Sample Info: WG164931-1,SI4000

Operator: JCG

Column phase: RTX-5SILMS Column diameter: 0.25

Data File: GD628.D

Spectrum: Avg. Scans 129-131 (7.57), Background Scan 125

Location of Maximum: 198.00

Number of points: 305

m/z	Y	m/z	Y	m/z	Y	m/z	Y
117.00	23744	195.00	430	278.00	665	442.00	202944
118.00	1798	196.00	5916	279.00	65	443.00	40832
119.00	292	197.00	394	282.00	54	444.00	3652
120.00	527	198.00	235840	283.00	498	445.00	316
121.00	22	199.00	15882	284.00	344		
122.00	1973	200.00	1332	285.00	793		
123.00	3146	201.00	991	286.00	148		

Raw QC Data Section

Katahdin
ANALYTICAL SERVICES

Cert No E87604

Report of Analytical Results

Client:
Lab ID: WG164843-1
Client ID: Method Blank Sample
Project:
SDG: SI4000
Lab File ID: G5073.D

Sample Date:
Received Date:
Extract Date: 15-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG164843

Analysis Date: 17-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA
Report Date: 29-JUN-15

Compound	Qualifier	Result	Units	Dilution	LOQ	ADJ LOQ	ADJ MDL	ADJ LOD
1,4-Dioxane	U	0.18	ug/L	1	.25	0.25	0.085	0.18
1,4-Dioxane-D8		77.8	%					

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-g.i\G061715.b\G5073.D
Report Date: 29-Jun-2015 10:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G061715.b\G5073.D
Lab Smp Id: WG164843-1 Client Smp ID: WG164843-Blank
Inj Date : 17-JUN-2015 12:24 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG164843-1,SI4000
Misc Info : WG164931,WG164843,WG162346-4,SI4000-1
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G061715.b\GDIOXN54.m
Meth Date : 17-Jun-2015 12:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 15:55 Cal File: G4827.D
Als bottle: 3 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

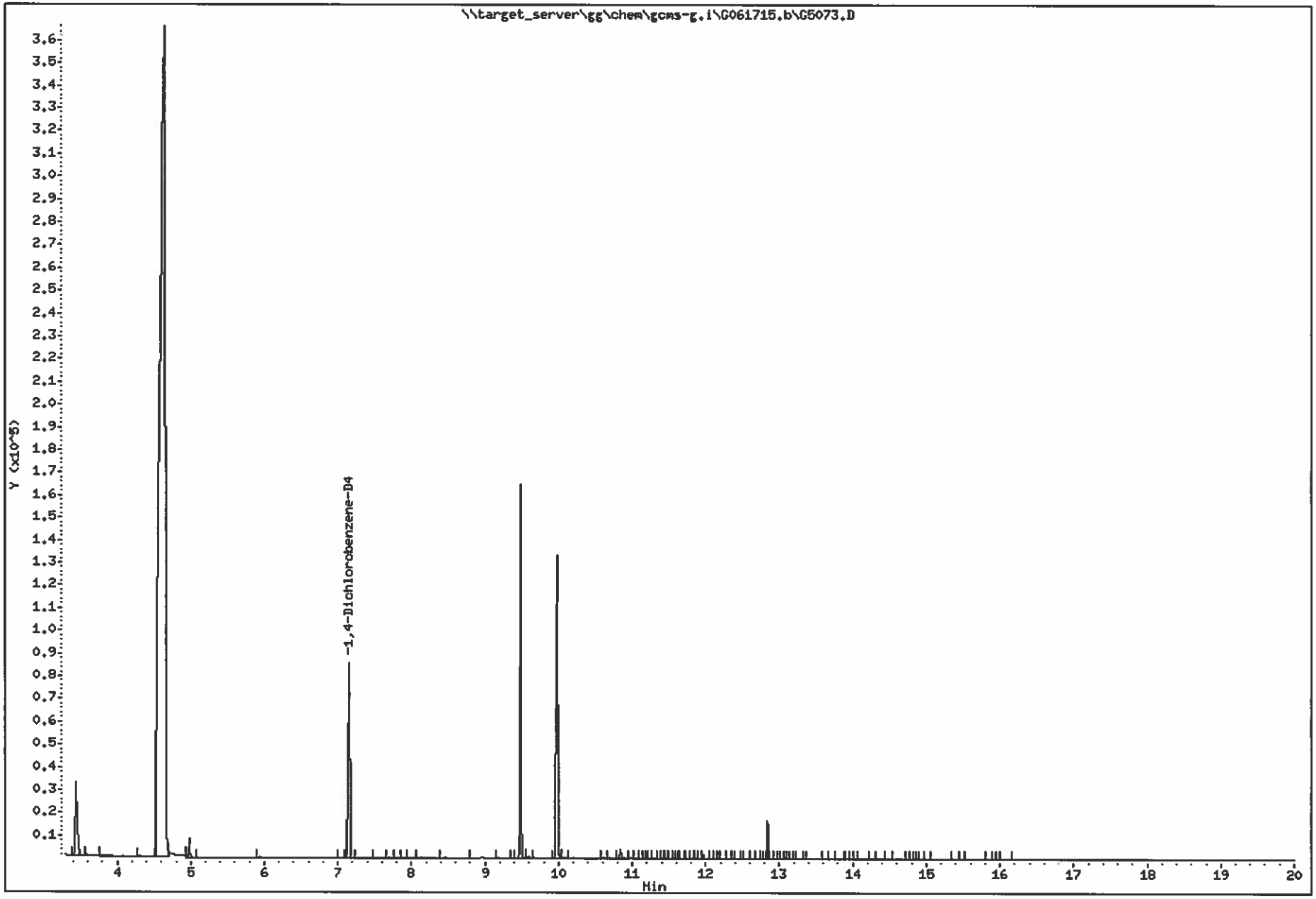
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
$ 2 1,4-Dioxane-D8	96	3.440	3.411	(0.481)	28183	1.55671	1.56	
* 3 1,4-Dichlorobenzene-D4	150	7.156	7.156	(1.000)	48316	0.80000	(a)	

QC Flag Legend

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

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\G5073.D
Date : 17-JUN-2015 12:24
Client ID: WG164843-Blank
Sample Info: WG164843-1,SI4000

Instrument: gcms-g.i



Katahdin Analytical Services 0000150

Katahdin
ANALYTICAL SERVICES

Cert No E87604

LCS/LCSD Recovery Report

LCS ID: WG164843-2
LCSD ID: WG164843-3
Project:
SDG: SI4000
Report Date: 29-JUN-15
LCS File ID: G5075.D

Received Date:
Extract Date: 15-JUN-15
Extracted By: HG
Extraction Method: SW846 3520
Lab Prep Batch: WG164843
LCSD File ID: G5076.D

Analysis Date: 17-JUN-15
Analyst: JCG
Analysis Method: SW846 M8270D
Matrix: AQ
% Solids: NA

Compound	Spike Amt	LCS Conc	LCS Rec (%)	LCSD Conc	LCSD Rec (%)	Conc Units	RPD (%)	RPD Limit	Limits
1,4-Dioxane	2.00	1.13	56.5	0.892	44.6	ug/L	24	30	10-90
1,4-Dioxane-D8			69.7		56.6				30-150

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-g.i\G061715.b\G5075.D
Report Date: 29-Jun-2015 10:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G061715.b\G5075.D
Lab Smp Id: WG164843-2 Client Smp ID: WG164843-LCS
Inj Date : 17-JUN-2015 13:18 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG164843-2,SI4000
Misc Info : WG164931,WG164843,WG162346-4,SI4000-1
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G061715.b\GDIOXN54.m
Meth Date : 17-Jun-2015 12:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 15:55 Cal File: G4827.D
Als bottle: 5 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.483	3.439	(0.488)	25092	1.13026	1.13(Q)	
$ 2 1,4-Dioxane-D8	96	3.440	3.411	(0.482)	27742	1.39459	1.39	
* 3 1,4-Dichlorobenzene-D4	150	7.141	7.156	(1.000)	53089	0.80000	(a)	

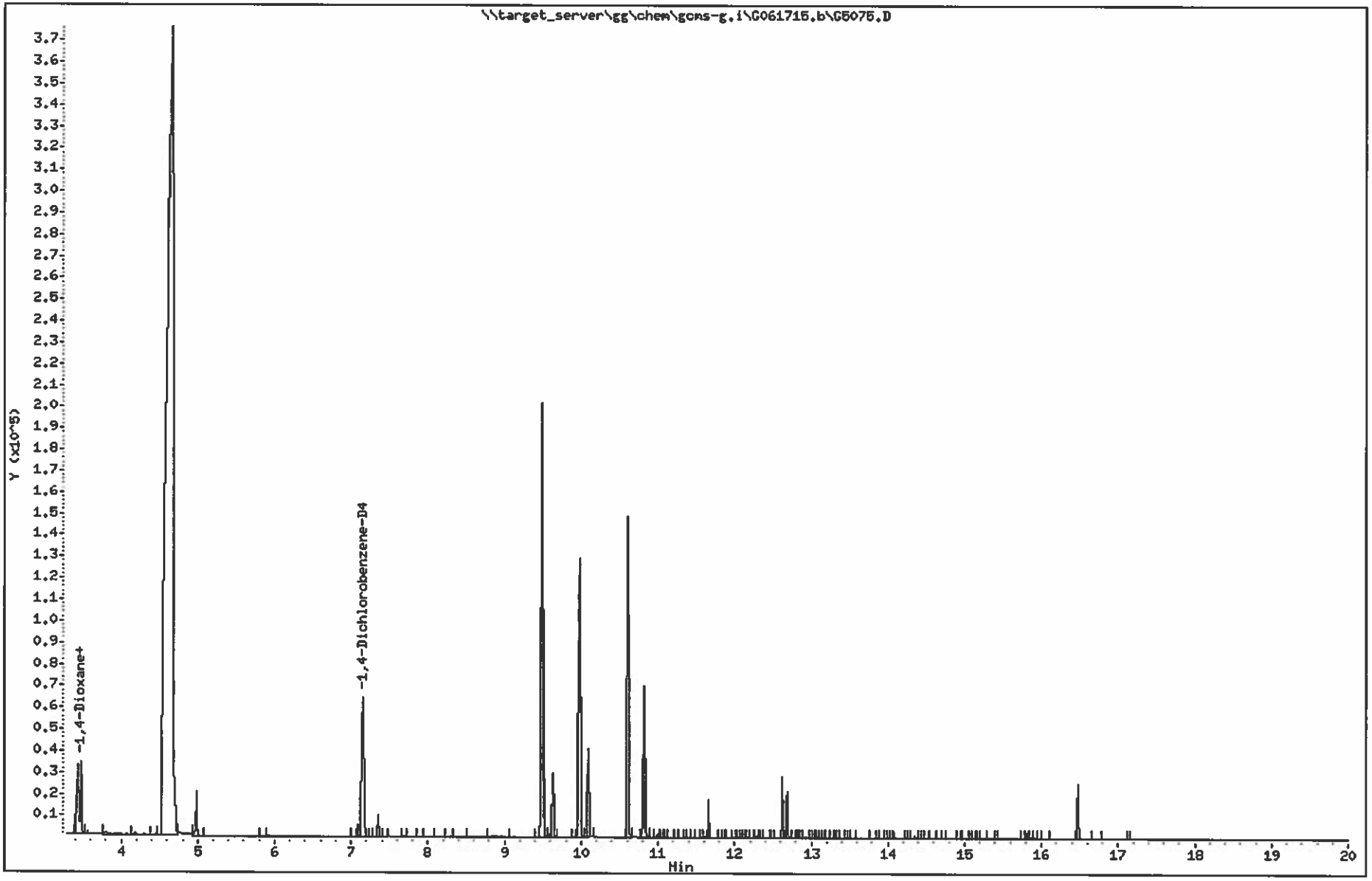
QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\G5075.D
Date : 17-JUN-2015 13:18
Client ID: WG164843-LCS
Sample Info: WG164843-2,SI4000
Purge Volume: 1.0
Column phase: RTX5-HS

Instrument: gcms-g.i

Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000153

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\G5076.D
Report Date: 29-Jun-2015 10:18

Katahdin Analytical Services

Data file : \\target_server\gg\chem\gcms-g.i\G061715.b\G5076.D
Lab Smp Id: WG164843-3 Client Smp ID: WG164843-LCSD
Inj Date : 17-JUN-2015 13:46 MS Autotune Date: 20-DEC-2013 17:08
Operator : JCG Inst ID: gcms-g.i
Smp Info : WG164843-3,SI4000
Misc Info : WG164931,WG164843,WG162346-4,SI4000-1
Comment :
Method : \\target_server\gg\chem\gcms-g.i\G061715.b\GDIOXN54.m
Meth Date : 17-Jun-2015 12:19 cgomez Quant Type: ISTD
Cal Date : 06-MAY-2015 15:55 Cal File: G4827.D
Als bottle: 6 QC Sample: LCSD
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 4.12
Processing Host: V200T4

Concentration Formula: Amt * DF * (Vt/Vo)*1000 * CpndVariable

Name	Value	Description
DF	1.000	Dilution Factor
Vt	0.00100	Final Volume (L)
Vo	1.000	Sample Volume (L)
Cpnd Variable		Local Compound Variable

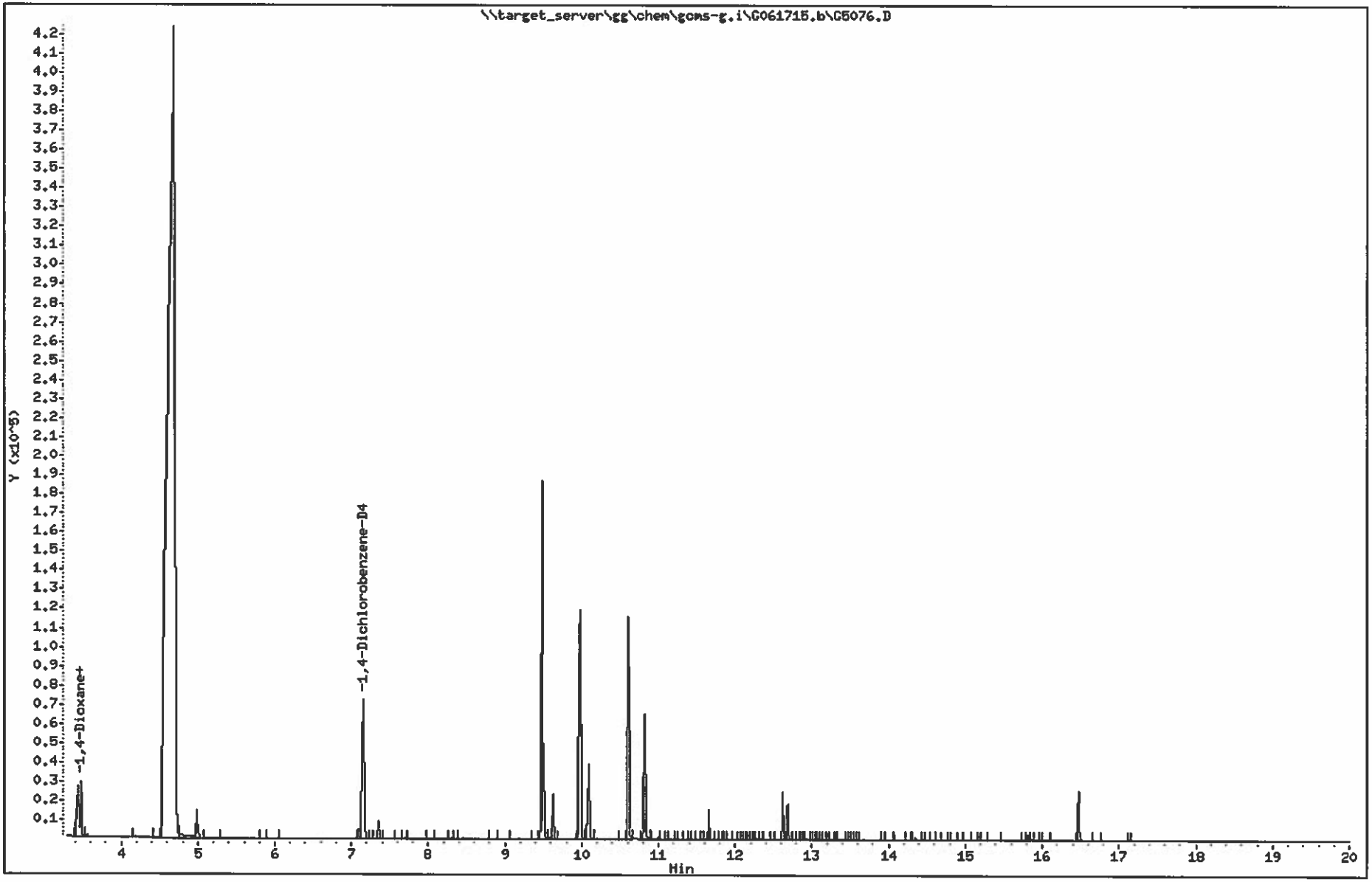
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/ml)	FINAL (ug/L)	REVIEW CODE
1 1,4-Dioxane	88	3.482	3.439	(0.487)	20688	0.89162	0.892(Q)	
$ 2 1,4-Dioxane-D8	96	3.439	3.411	(0.481)	23526	1.13156	1.13	
* 3 1,4-Dichlorobenzene-D4	150	7.156	7.156	(1.000)	55486	0.80000	(a)	

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
Q - Qualifier signal failed the ratio test.

Data File: \\target_server\gg\chem\gcms-g.i\G061715.b\G5076.D
Date : 17-JUN-2015 13:46
Client ID: WG164843-LCSD
Sample Info: WG164843-3,SI4000
Purge Volume: 1.0
Column phase: RTX5-HS

Instrument: gcms-g.i
Operator: JCG
Column diameter: 0.25



Katahdin Analytical Services 0000155

Logbooks and Supporting Documents

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-G

DATE OF DFTPP INJECTION: 050615

JOB	SAMPLE	DATAFILE	OF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG162346-1	50ng DFTPP	GD606	1	1	DFTPPSIM	2.0	JCM	OK
-4	5000L/20 G0506	G4822	1	2	GDLOXV54			✓
-2	0.25	23		3				✓
-3	0.5	24		4				✓
-5	3.0	25		5				✓
-6	7.0	26		6				✓
-7	10	27		7				✓
-8	LNB	28		8				OK
320	WG162253-1	29		9				OK
	-2	30		10				OK
	-3	31		11				OK
	SE2761-1	32		12				OK
	-2	33		13				OK
	SE2761-1	34		14				OK
	-2	35		15				OK
	-3	36		16				OK
	-4	37		17				OK
	-5	38		18				OK
	-6	39		19				OK

JMW 5/6/15

STANDARD	CODE
DFTPP	52585
CAL. STD.	52601
IS MIX	52598

REVIEWED AND APPROVED BY: _____
DATE: _____

KATAHDIN ANALYTICAL SERVICES
GC/MS SVOA INJ LOG INSTRUMENT: 5973-G

DATE OF DFTPP INJECTION: 061715

JOB	SAMPLE	DATAFILE	DF	ALS #	METHOD	UL INJ	CHEMIST	COMMENTS
WG164931-1	SOLWDFTPP	GD628	1	1	DFTPP SIM	2.0	JLM	OK
-2	5700160 G0617	G5672		2	GDLOXN SM			OK
8520	WG164843-1	73		3				OK
	5L4200-1	74		4				OK
	WG164843-2	75		5				OK
	-3	76		6				OK

STANDARD	CODE
DFTPP	52611
CAL. STD.	52614
IS MIX	52633

REVIEWED AND APPROVED BY: _____
DATE: _____

Sim 1,4 Dioxane
CLLE

KATAHDIN ANALYTICAL SERVICES, INC.
ORGANIC EXTRACTIONS LOG - AQUEOUS SEMI-VOLATILES

Extraction Method: (check one)	SW846 3510 (SEP)		SW846 3520 (CLLE) ✓		SW846 3535 (SPE)
Analytical Method: (check one)	SW846 8270 ✓	EPA 625	CLP OLM04.2	CLP OLC02.1	CLP SOM01.2
Standards	Surrogate ID (1): SV2717		Spike ID (1): Sim SV2718		
	Surrogate ID (2): —		Spike ID (2): —		
Solvents/Acid/Base	Solvent Lot # (MeCl2): DM825		H_2SO_4 Lot # —		NaOH Lot # 62534
Consumables	Filter Paper Lot # 9618571		$NaSO_4$ Lot # 2746500Z		
Nitrogen Water Bath Temperature 30°C			pH (1st Extraction) ≥11		pH (2nd Extraction) —
Prep Start Time: 14:30	Prep End Time: 15:00		CLLE Start Time:		CLLE End Time:

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SV037	Initials	Comments
6-15-15	HB	WG168423-1	1000	1.0	NR		✓	1.0ml	6-16-15	E2	HB	R321521
↓	↓	-2	1000	↓	1.0		↓	↓	↓	E3	↓	
↓	↓	-3	1000	↓	↓		↓	↓	↓	E4	↓	

HB 6-16-15

EX-007 – Revision 2 – 12/05/2013 QAEX284 0000087

Date Extracted	Ext. Init.	Sample ID	Initial Vol. mL	Surr. Vol.	Spike Vol.	Fraction SV	Fraction SIM	Final Vol. mL	Date Conc.	Tray Location SV037	Initials	Comments
6-15-15	HB	SI4000-1D	1050	1.0	NR		✓	1.0ml	6-16-15	E5	HB	

HB 6-16-15

Reviewed By________ Date________