Groundwater
& Environmental Services, Inc.

495 Aero Drive, Suite 3 • Cheektowaga, New York 14225 • TEL (800) 287-7857 • Fax (716) 706-0078

June 29, 2012

Mr. Chad Staniszewski
NYSDEC Region 9
270 Michigan Avenue
Buffalo, New York 14203

Re: Off-Site Soil Vapor Intrusion Investigation Summary
Former Vibratech Facility
537 East Delavan Avenue
Buffalo, New York 1211
NYSDEC Site #915165

Dear Mr. Staniszewski:

Please find the results of the soil vapor intrusion (SVI) investigation, which was conducted by Groundwater & Environmental Services, Inc. (GES) at the request of NYSDEC. This report provides a summary of the SVI investigation methodology and results conducted in association with the Former Vibratech Facility in Buffalo, New York.

SVI Investigation

At the direction of NYSDEC, GES conducted an SVI investigation in accordance with the New York State Department of Health (NYSDOH) *Guidance for Evaluating Soil Vapor Intrusion in the State of New York* (October 2006) (hereto referred to as the "*NYSDOH SVI Guidance*"). SVI samples were collected at a total of four homes in close proximity to the former Vibratech site, located at 537 East Delavan Avenue in the City of Buffalo, New York. The overall goal of the vapor intrusion sampling program was to evaluate potential human exposure to volatile organic compounds (VOCs), especially chlorinated compounds, known to be present in the groundwater at the former Vibratech site.

From March 8 through March 9, 2012, and May 29 through May 30, GES conducted a sampling program at four homes - House #1, House #2, House #3, and House #4 (please note that the key that includes the actual house address has been submitted to NYSDEC in a separate letter dated June 29, 2012). An active approach utilizing laboratory certified canisters were used to evaluate the soil vapor conditions. Samples were collected using 6-liter stainless steel Summa Canisters, provided by the TestAmerica, Inc (a NYSDEC contracted laboratory), of Knoxville, Tennessee.

In accordance with the *NYSDOH SVI Guidance*, temporary sub-slab samples points were installed in the basement of each home using an electric hammer drill with a ¾ inch bit to bore through the basement slab and sub-base gravel. Teflon tubing (¼ inch diameter) was inserted no greater than two inches into the sub-slab material, and sealed from the surface utilizing bentonite clay. After the installation of the tubing, the tubing was purged of any pre-existing air using a hand pump. A tracer test was performed to confirm that the bentonite seal had isolated the sub-slab environment from the basement environment. The tracer test was performed utilizing a capped 2" diameter polyvinyl chloride (PVC) pipe placed over the sample point. A sealed exit point was provided for the sample tubing. The atmosphere inside the PVC tube was enriched with helium through an entry point in the PVC tube. A Dielectric Technologies© MGD2002 Helium-Hydrogen Detector was used to confirm the absence or presence of any helium in the sub-slab

environment by measuring through the sample tube. There was no helium detected in the sample tubing, confirming that there was no air communication between the basement environment and the sub-slab environment at the sampling point (See Table 1 for Helium Test Results). Sample collection was started after the tracer test was performed and allowed to collect over a 24 hour period utilizing a preset air intake regulator on the summa canister. The summa canisters were collected at the conclusion of the 24 hour period. Photographs of sample collection are provided in **Appendix A**. After sampling was completed, the tubing from the temporary sample points were removed, and the boreholes in the basement slabs were backfilled with bentonite and sealed at the surface with concrete patch compound.

The indoor air samples were collected in the basement of each home, typically at a height of approximately four to five feet above the floor level, also utilizing Summa Canisters. These samples were collected over the same 24-hour period as each corresponding sub-slab sample. At one of the homes located downwind of the Vibratech facility, an outdoor ambient air sample was collected simultaneously as the sub-slab and indoor samples. The outdoor sample was also collected at a height of approximately of four to five feet above the ground surface.

At select locations, quality assurance/quality control samples (as shown in **Table 1** and **Table 2**), in the form of field duplicates samples were collected.

In addition, for each home that was sampled, a questionnaire and product inventory was completed in accordance with Appendix B of the *NYSDOH SVI Guidance* to identify any conditions that may interfere with the sample collection, including the presence of any construction characteristics of the home, mechanical equipment that may cause interference, and/or the use or storage of chemical products containing VOCs. Due to the potentially sensitive nature of the information provided by the homeowners, the completed questionnaires will be included as an attachment to the letter that contains the key for the homeowners' addresses.

As part of the questionnaire, the presence and description of any odors were noted and portable vapor monitoring equipment readings (utilizing a RAE Systems© ppB RAE 3000 photoionization detector) were collected. In House #1, and House #3, no elevated readings (>100 parts-per-billion [ppb]) were detected, nor were there any products that exhibited elevated readings. In House #2, the background air in the center of the room was measured at approximately 100 ppb; in addition, a gasoline powered lawn mover (500 ppb nearby) and a gasoline powered generator (3,000 ppb nearby) were stored in the basement at the time of the sampling event. Upon consulting with NYSDEC, it was determined that the lawn mover and the generator would not interfere with the SVI investigation, as the targeted compounds were chlorinated solvents (not related to gasoline vapors). In House #4, the background air in the center of the room was measured at 0 ppb, however. A gasoline powered lawn mover (500 ppb at the gasoline cap) was stored in the southeastern corner of the basement.

Upon collection of the sample canisters, the samples were submitted to TestAmerica under chain of custody for laboratory analysis utilizing Method TO-15. The samples were analyzed under a ten day turnaround. TestAmerica was also instructed to prepare a NYSDEC Analytical Services Protocol (ASP) Category B laboratory data package for the purpose of data validation. A summary of the analytical data is provided in **Table 2**. A third party data validator (Vali-Data of WNY, LLC) was contracted to prepare a Data Usability Summary Report (DUSR) for the laboratory results in accordance with NYSDEC Division of Environmental Remediation (DER)-10 *Technical Guidance for Site Investigation and Remediation* (May 2010). The DUSR reports and associated validated laboratory analytical reports are provided in **Appendix B**.

Soil Vapor Intrusion Investigation Summary
Former Vibratech Facility
Buffalo, New York
NYSDEC Site #915165

If you have any questions or concerns, please contact GES at 1-800-287-7857.

Sincerely,

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Eric D. Popken
Project Manager

Attachments

Table 1 – Soil Vapor Sampling Field Data
Table 2 – Air Analytical Summary

Appendix A – Photo Documentation
Appendix B – Laboratory Analytical Reports and DUSRs

TABLES

Former Vibratech Facility
537 East Delavan Ave
Buffalo, New York
NYSDEC Site #915165

Table 1
Soil Vapor Sampling Field Data
March and May 2012

Residence #	Sample Type	Location	Helium Reading (ppm)	Helium Test	Canister #	Regulator #	Date Start	Time Start	Pressure Start ("Hg)	Date End	Time End	Pressure End ("Hg)
1	SS	Center	0.0	Pass	12878	K407	3/8/2012	9:37 AM	30	3/9/2012	9:29 AM	3
1	Indoor	Center	NA	NA	04337	K476	3/8/2012	9:42 AM	29	3/9/2012	9:31 AM	4
2	SS	Center	0.0	Pass	0112	K343	3/8/2012	10:52 AM	29	3/9/2012	10:42 AM	0
2	SS Dupilcate	Center	0.0	Pass	0120	K151	3/8/2012	10:52 AM	29	3/9/2012	10:42 AM	4
2	Indoor	Desk	NA	NA	93170	K464	3/8/2012	11:00 AM	29	3/9/2012	10:42 AM	5
2	Indoor Duplicate	Desk	NA	NA	12264	K188	3/8/2012	11:00 AM	30	3/9/2012	10:42 AM	6
3	SS	Center	0.0	Pass	1411	K132	3/8/2012	11:45 AM	29	3/9/2012	11:16 AM	5
3	Indoor	Center	NA	NA	04746	K437	3/8/2012	11:44 AM	29	3/9/2012	11:16 AM	6
3	Outdoor	Backyard	NA	NA	12891	K391	3/8/2012	11:55 AM	29	3/9/2012	11:21 AM	3
4	SS	Center	0.0	Pass	S1495	K226	5/29/2012	2:15 PM	28	5/30/2012	12:50 PM	9
4	SS Dupilcate	Center	0.0	Pass	7475	K236	5/29/2012	2:15 PM	29	5/30/2012	12:50 PM	8
4	Indoor	Center	NA	NA	A281	K449	5/29/2012	2:17 PM	29	5/30/2012	12:57 PM	8
4	Outdoor	Backyard	NA	NA	6684	K414	5/29/2012	2:30 PM	30	5/30/2012	1:05 PM	8

N/A = Not Applicable

Former Vibratech Facility
537 East Delavan Avenue
Buffalo, New York
NYSDEC Site #915165

Table 2
Air Analytical Summary
Method TO-15
March and May 2012

Sample Point		HOUSE #1 SS	HOUSE #1 INDOOR	HOUSE #2 INDOOR DUP	HOUSE #2 SS	HOUSE #2 SS DUP	HOUSE #2 INDOOR	HOUSE #3 SS	HOUSE #3 INDOOR	HOUSE #3 OUTDOOR	HOUSE #4 SS	HOUSE #4 SS DUP	HOUSE #6 INDOOR	HOUSE #4 OUTDOOR
Sample Pickup Date		3/9/2012	3/9/2012	3/9/2012	3/9/2012	3/9/2012	3/9/2012	3/9/2012	3/9/2012	3/9/2012	5/29/2012	5/29/2012	5/29/2012	5/29/2012
CAS #	COMPOUND (ug/m3)													
100-41-4	Ethylbenzene	2.7	U 0.35	6.2	10	2.2	5.4	2.2	0.51	U 0.35	6	6.4	47	U 0.35
100-42-5	Styrene	1.8	U < 0.34	U 0.34	0.83	1.1	U 0.34	1.2	U 0.34	U 0.34	U 1.3	U 1.2	U 1.7	U 0.34
100-44-7	Benzyl chloride	U 0.83	U 0.83	U 0.83	U 0.83	U 0.83	U < 0.83	U 0.83	U 0.83	U 0.83	U 3.1	U 2.9	U 4.1	U 0.83
10061-01-5	cis-1,3-Dichloropropene	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 1.3	U 1.3	U 1.8	U 0.36
10061-02-6	trans-1,3-Dichloropropene	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 0.36	U 1.3	U 1.3	U 1.8	U 0.36
106-46-7	1,4-Dichlorobenzene	U 0.48	U 0.48	U 0.48	U 0.48	U < 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 1.8	U 1.7	U 2.4	U 0.48
106-93-4	1,2-Dibromoethane (EDB)	U 0.61	U 0.61	U 0.61	U 0.61	U 0.61	U 0.61	U 0.61	U 0.61	U 0.61	U < 2.3	U 2.2	U 3.1	U 0.61
107-06-2	1,2-Dichloroethane	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	4.4	U 0.32	U 0.32	U 1.2	U 1.1	U 1.6	U 0.32	
108-10-1	4-Methyl-2-pentanone (MIBK)	U 0.82	U 0.82	U 0.82	U 0.82	U 0.82	U 0.82	U 0.82	U 0.82	U 3	U 2.9	U 4.1	U 0.82	
108-67-8	1,3,5-Trimethylbenzene	1.3	U 0.39	0.87	2.1	1.1	0.51	0.61	U 0.39	U 0.39	2	1.9	9.5	U 0.39
108-88-3	Toluene	12	2.4	28	48	9.8	26	12	1.9	1.2	29	31	200	1.6
108-90-7	Chlorobenzene	U 0.37	U 0.37	U 0.37	U 0.37	U 0.37	U 0.37	U 0.37	U 0.37	U < 0.37	U 1.4	U 1.3	U 1.8	U 0.37
110-54-3	n-Hexane	3.1	U 0.7	16	26	4.2	15	5.1	0.73	U 0.7	11	11	60	U 0.7
110-82-7	Cyclohexane	1.1	U 0.69	3.3	9.3	5.6	2.9	7.7	U 0.69	U 0.69	4.7	4.7	13	U 0.69
120-82-1	1,2,4-Trichlorobenzene	U 0.59	U 0.59	U 0.59	U 0.59	U 0.59	U 0.59	U 0.59	U 0.59	U 0.59	U 2.2	U 2.1	U 3	U 0.59
123-91-1	1,4-Dioxane	U < 0.72	U 0.72	U 0.72	U < 0.72	U 0.72	1.2	U 0.72	U 0.72	U 0.72	U 2.7	U 2.5	U < 3.6	U 0.72
124-48-1	Dibromochloromethane	U 0.68	U 0.68	U 0.68	U 0.68	U < 0.68	U 0.68	U 0.68	U 0.68	U 0.68	U 2.5	U 2.4	U 3.4	U 0.68
127-18-4	Tetrachloroethene	U 0.54	U 0.54	1.6	U < 0.54	U 0.54	1.5	U 0.54	U 0.54	U 0.54	U 2	U 1.9	U 2.7	U 0.54
136777-61-2	m-Xylene & p-Xylene	9.3	0.68	21	38	9	14	7	1.9	0.63	23	24	170	1.1
156-59-2	cis-1,2-Dichloroethene	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	0.84	U 1.2	U 1.1	U 1.6	U 0.32
156-60-5	trans-1,2-Dichloroethene	U 0.32	U < 0.32	U 0.32	U 0.32	U 0.32	U < 0.32	U 0.32	U 0.32	U 0.32	U 1.2	U 1.1	1.6	U 0.32
1634-04-4	Methyl tert-butyl ether	U 0.58	U 0.58	U 0.58	U 0.58	U 0.58	U < 0.58	U 0.58	U 0.58	U 0.58	U < 2.1	U 2	U 2.9	U 0.58
540-84-1	2,2,4-Trimethylpentane	U 0.93	U < 0.93	4	5.7	U 0.93	3.3	U 0.93	U 0.93	U 0.93	U 3.5	U 3.3	34	U 0.93
541-73-1	1,3-Dichlorobenzene	U 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 1.8	U 1.7	U 2.4	U 0.48
56-23-5	Carbon tetrachloride	0.45	0.41	0.48	0.35	0.38	0.48	0.37	0.5	0.56	U 0.93	U 0.88	U 1.3	0.56
64-17-5	Ethanol	4.2	43	130	70	2	140	34	5.5	3.4	19	22	280	8.1
67-66-3	Chloroform	2.2	U 0.39	4.6	2.3	1.2	4.1	2.7	U 0.39	U 0.39	150	140	2.9	U < 0.39
71-43-2	Benzene	1.3	0.62	6.9	10	1.5	6.2	1.9	0.87	0.77	4.7	4.8	30	0.39
71-55-6	1,1,1-Trichloroethane	U 0.44	U 0.44	U 0.44	U 0.44	0.45	U 0.44	0.81	U 0.44	U 0.44	7.3	7	U 2.2	U 0.44
74-83-9	Bromomethane	U 0.31	U 0.31	U 0.31	U 0.31	U 0.31	U 0.31	U < 0.31	U 0.31	U 0.31	U 1.1	U 1.1	U 1.6	U 0.31
74-87-3	Chloromethane	U 0.41	1.3	1.9	0.8	U 0.41	2.3	U 0.41	1.2	1.3	U 1.5	U 1.4	U 2.1	1.3
75-00-3	Chloroethane	U 0.21	U 0.21	U 0.21	U 0.21	U 0.21	U 0.21	U 0.21	U 0.21	U 0.21	U 0.78	U 0.74	U 1.1	U 0.21
75-01-4	Vinyl chloride	U 0.2	U 0.2	U 0.2	U 0.2	U 0.2	U 0.2	U 0.2	U 0.2	U 0.2	U 0.76	U 0.72	U 1	U 0.2
75-09-2	Methylene chloride	0.78	U 0.69	U 0.69	U 0.69	U 0.69	0.71	U 0.69	U 0.69	U 0.69	3.7	4.5	U 3.5	1
75-25-2	Bromoform	U 0.83	U 0.83	U 0.83	U 0.83	U 0.83	U 0.83	U 0.83	U 0.83	U < 0.83	U 3.1	U 2.9	U 4.1	U 0.83
75-27-4	Bromodichloromethane	U 0.54	U 0.54	U 0.54	U 0.54	U 0.54	U 0.54	U 0.54	U 0.54	U < 2	U 1.9	U 1.8	U 2.7	U 0.54
75-34-3	1,1-Dichloroethane	U 0.32	U 0.32	U 0.32	U < 0.32	U 0.32	U 0.32	U < 0.32	U 0.32	U 0.32	U 1.2	U 1.1	U 1.6	U 0.32
75-35-4	1,1-Dichloroethene	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 0.32	U 1.2	U 1.1	U 1.6	U 0.32
75-65-0	tert-Butyl alcohol	U 0.97	U 0.97	U 0.97	U 0.97	U 0.97	U 0.97	U 0.97	U < 0.97	U 0.97	U 3.6	U 3.4	U 4.9	U 0.97
75-69-4	Trichlorofluoromethane	1.4	1.1	1.1	1	1.1	1	1.3	1	1	3.2	2.9	U 2.2	1.8
75-71-8	Dichlorodifluoromethane	2.7	3.1	3.3	2.5	2.6	2.5	3.1	2.6	3	2.2	2.1	2.1	2.3
76-13-1	1,1,2-Trichlorotrifluoroethane	U 0.61	U 0.61	U 0.61	U 0.61	U 0.61	U < 0.61	U 0.61	U 0.61	U 0.61	U 2.3	U 2.1	U 3.1	U 0.61
76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane	U 0.56	U 0.56	U 0.56	U 0.56	U 0.56	U 0.56	U 0.56	U 0.36	U 0.56	U 2.1	U 2	U 2.8	U 0.56
78-87-5	1,2-Dichloropropane	U 0.37	U 0.37	U 0.37	U 0.37	U 0.37	U 0.37	U 0.37	U 0.37	U 0.37	U 1.4	U 1.3	U 1.8	U 0.37
78-93-3	2-Butanone (MEK)	5.2	U 0.94	2.7	5.9	5.3	2.6	2	1.5	1.1	6.4	7	21	1.8
79-00-5	1,1,2-Trichloroethane	U 0.44	U 0.44	U 0.44	U 0.44	U 0.44	U 0.44	U 0.44	U 0.44	U 0.44	U 1.6	U 1.5	U < 2.2	U 0.44
79-01-6	Trichloroethene	U 0.21	U 0.21	U 0.21	U 0.21	U 0.21	U < 0.21	U 0.21	U 0.21	U < 0.21	U 0.8	U 0.75	U 1.1	U 0.21
79-34-5	1,1,2,2-Tetrachloroethane	U 0.55	U 0.55	U 0.55	U 0.55	U 0.55	U 0.55	U 0.55	U 0.55	U 0.55	U 2	U 1.9	U 2.7	U 0.55
87-68-3	Hexachlorobutadiene	U 0.85	U 0.85	U 0.85	U 0.85	U 0.85	U 0.85	U 0.85	U 0.85	U 0.85	U 3.2	U 3	U 4.3	U 0.85
95-47-6	o-Xylene	3.8	U 0.35	7.1	13	3.7	4.6	2.8	0.75	U 0.35	8.2	8.6	66	0.43
95-50-1	1,2-Dichlorobenzene	U 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 0.48	U 1.8	U 1.7	U 2.4	U 0.48
95-63-6	1,2,4-Trimethylbenzene	4.9	U 0.39	4.6	9.2	4.3	2.2	2.3	U 0.39	U 0.39	7.9	8.2	43	U 0.39

U = below detection limit
ug/m3 = micrograms per cubic meter

APPENDIX A

SVI Investigation Photo Documentation
Former Vibratech Facility
537 East Delavan Avenue
Buffalo, New York 14211
NYSDEC Site Number 915165

Please Note the following:

- Disregard the date stamps on the photographs. The photographs were actually collected on March 8, 2012
- Photographs of House #4 were of poor quality and therefore were not included.

Indoor air sample collected from House #1.

Sub-slab air sample collected from House #1.

Household products from House #1.

Household products from House #1.

Indoor air samples collected from House #2.

Sub-slab air samples collected from House #2.

Household products from House #2.

Household products from House #2.

Gasoline powered lawnmower and generator in basement of House #2.

Indoor air sample collected from House #3.

Sub-slab air sample collected from House #3.

Household products from House #3.

APPENDIX B

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 915165

Vibratech Inc.

Lot #: H2C130401

Chad Staniszewski

New York State D.E.C.
270 Michigan Avenue
Buffalo, NY 14203-2999

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

March 22, 2012

ANALYTICAL METHODS SUMMARY

H2C130401

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H2C130401

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MRDHH	001	HOUSE # 1 SS	03/09/12	09:29
MRDHJ	002	HOUSE # 1 INDOOR	03/09/12	09:31
MRDHK	003	HOUSE # 2 SS	03/09/12	10:42
MRDHL	004	HOUSE # 2 SS DUP	03/09/12	10:42
MRDHM	005	HOUSE # 2 INDOOR	03/09/12	10:42
MRDHN	006	HOUSE # 2 INDOOR DUP	03/09/12	10:42
MRDHQ	008	HOUSE # 3 SS	03/09/12	11:45
MRDHR	009	HOUSE # 3 INDOOR	03/09/12	11:16
MRDHT	010	HOUSE # 3 OUTDOOR	03/09/12	11:55

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H2C130401

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

Custody seals were not present.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

Quantitation for Ethanol was previously based on a one-point calibration standard at the reporting limit.

Ethanol was quantitated based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analyte is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analyte is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	ACLASS	DoD ELAP		ADE-1434
TestAmerica Knoxville	Arkansas	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Indiana	State Program	5	C-TN-02
TestAmerica Knoxville	Iowa	State Program	7	375
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana	NELAC	6	LA110001
TestAmerica Knoxville	Louisiana	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Minnesota	NELAC	5	047-999-429
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina	North Carolina DENR	4	64
TestAmerica Knoxville	North Carolina	North Carolina PHL	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	2014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-TX
TestAmerica Knoxville	USDA	USDA		P330-11-00035
TestAmerica Knoxville	Utah	NELAC	8	QUAN3
TestAmerica Knoxville	Virginia	State Program	3	165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia	West Virginia DEP	3	345
TestAmerica Knoxville	West Virginia	West Virginia DHHR (DW)	3	9955C
TestAmerica Knoxville	Wisconsin	State Program	5	998044300

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Sample Data Summary

New York State D.E.C.

Client Sample ID: HOUSE # 1 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 001 **Work Order #** MRDHH1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012
Prep Date.....: 03/13/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1

Date Received..: 03/10/2012
Analysis Date... 03/13/2012
Method.....: TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**1.0**	**0.080**	**4.9**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.26**	**0.080**	**1.3**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**1.8**	**0.32**	**5.2**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.41**	**0.080**	**1.3**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.071**	**0.040**	**0.45**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.45**	**0.080**	**2.2**	**0.39**
Cyclohexane	**0.33**	**0.20**	**1.1**	**0.69**
Chloromethane	ND	0.20	ND	0.41
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.55**	**0.080**	**2.7**	**0.40**
Ethanol	**2.2**	**0.80**	**4.2**	**1.5**
Ethylbenzene	**0.63**	**0.080**	**2.7**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**0.88**	**0.20**	**3.1**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 1 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 001 **Work Order #** MRDHH1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	**0.23**	**0.20**	**0.78**	**0.69**
Styrene	**0.42**	**0.080**	**1.8**	**0.34**
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**3.1**	**0.080**	**12**	**0.30**
m-Xylene & p-Xylene	**2.1**	**0.080**	**9.3**	**0.35**
o-Xylene	**0.88**	**0.080**	**3.8**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.24**	**0.080**	**1.4**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	115	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 1 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 002 **Work Order #** MRDHJ1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/13/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	ND	0.32	ND	0.94
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.20**	**0.080**	**0.62**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.066**	**0.040**	**0.41**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	**0.63**	**0.20**	**1.3**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.62**	**0.080**	**3.1**	**0.40**
Ethanol	**23**	**0.80**	**43**	**1.5**
Ethylbenzene	ND	0.080	ND	0.35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	ND	0.20	ND	0.70
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 1 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 002 **Work Order #** MRDHJ1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.62**	**0.080**	**2.4**	**0.30**
m-Xylene & p-Xylene	**0.16**	**0.080**	**0.68**	**0.35**
o-Xylene	ND	0.080	ND	0.35
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.20**	**0.080**	**1.1**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	109	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 2 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 003 **Work Order #** MRDHK1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/13/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**1.9**	**0.080**	**9.2**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.44**	**0.080**	**2.1**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**2.0**	**0.32**	**5.9**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	**1.2**	**0.20**	**5.7**	**0.93**
Benzene	**3.2**	**0.080**	**10**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.056**	**0.040**	**0.35**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.47**	**0.080**	**2.3**	**0.39**
Cyclohexane	**2.7**	**0.20**	**9.3**	**0.69**
Chloromethane	**0.39**	**0.20**	**0.80**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.51**	**0.080**	**2.5**	**0.40**
Ethanol	**37**	**0.80**	**70**	**1.5**
Ethylbenzene	**2.3**	**0.080**	**10**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**7.4**	**0.20**	**26**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 2 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 003 **Work Order #** MRDHK1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	**0.20**	**0.080**	**0.83**	**0.34**
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**13**	**0.080**	**48**	**0.30**
m-Xylene & p-Xylene	**8.7**	**0.080**	**38**	**0.35**
o-Xylene	**3.0**	**0.080**	**13**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.19**	**0.080**	**1.0**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	115	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 2 SS DUP

GC/MS Volatiles

Lot-Sample #	H2C130401 - 004	**Work Order #**	MRDHL1AA	**Matrix.....:**	AIR
Date Sampled...:	03/09/2012	**Date Received..:**	03/10/2012		
Prep Date.....:	03/13/2012	**Analysis Date...**	03/13/2012		
Prep Batch #.....:	2073128				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	**0.083**	**0.080**	**0.45**	**0.44**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**0.88**	**0.080**	**4.3**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.22**	**0.080**	**1.1**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**1.8**	**0.32**	**5.3**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.47**	**0.080**	**1.5**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.060**	**0.040**	**0.38**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.25**	**0.080**	**1.2**	**0.39**
Cyclohexane	**1.6**	**0.20**	**5.6**	**0.69**
Chloromethane	ND	0.20	ND	0.41
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.52**	**0.080**	**2.6**	**0.40**
Ethanol	**1.1**	**0.80**	**2.0**	**1.5**
Ethylbenzene	**0.50**	**0.080**	**2.2**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**1.2**	**0.20**	**4.2**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 2 SS DUP

GC/MS Volatiles

Lot-Sample # H2C130401 - 004 **Work Order #** MRDHL1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	**0.26**	**0.080**	**1.1**	**0.34**
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**2.6**	**0.080**	**9.8**	**0.30**
m-Xylene & p-Xylene	**2.1**	**0.080**	**9.0**	**0.35**
o-Xylene	**0.85**	**0.080**	**3.7**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.20**	**0.080**	**1.1**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	113	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 2 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 005 **Work Order #** MRDHM1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/13/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**0.46**	**0.080**	**2.2**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.10**	**0.080**	**0.51**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	**0.33**	**0.20**	**1.2**	**0.72**
2-Butanone (MEK)	**0.87**	**0.32**	**2.6**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	**0.70**	**0.20**	**3.3**	**0.93**
Benzene	**1.9**	**0.080**	**6.2**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.077**	**0.040**	**0.48**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.84**	**0.080**	**4.1**	**0.39**
Cyclohexane	**0.84**	**0.20**	**2.9**	**0.69**
Chloromethane	**1.1**	**0.20**	**2.3**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.50**	**0.080**	**2.5**	**0.40**
Ethanol	**77**	**0.80**	**140**	**1.5**
Ethylbenzene	**1.3**	**0.080**	**5.4**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**4.1**	**0.20**	**15**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82

New York State D.E.C.

Client Sample ID: HOUSE # 2 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 005 **Work Order #** MRDHM1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	**0.20**	**0.20**	**0.71**	**0.69**
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	**0.22**	**0.080**	**1.5**	**0.54**
Toluene	**6.9**	**0.080**	**26**	**0.30**
m-Xylene & p-Xylene	**3.3**	**0.080**	**14**	**0.35**
o-Xylene	**1.1**	**0.080**	**4.6**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.18**	**0.080**	**1.0**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 2 INDOOR DUP

GC/MS Volatiles

Lot-Sample #	H2C130401 - 006	**Work Order #**	MRDHN1AA	**Matrix.....:**	AIR
Date Sampled...:	03/09/2012	**Date Received..:**	03/10/2012		
Prep Date.....:	03/13/2012	**Analysis Date...**	03/13/2012		
Prep Batch #.....:	2073128				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**0.93**	**0.080**	**4.6**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.18**	**0.080**	**0.87**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**0.92**	**0.32**	**2.7**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	**0.86**	**0.20**	**4.0**	**0.93**
Benzene	**2.2**	**0.080**	**6.9**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.076**	**0.040**	**0.48**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.95**	**0.080**	**4.6**	**0.39**
Cyclohexane	**0.97**	**0.20**	**3.3**	**0.69**
Chloromethane	**0.91**	**0.20**	**1.9**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.66**	**0.080**	**3.3**	**0.40**
Ethanol	**67**	**0.80**	**130**	**1.5**
Ethylbenzene	**1.4**	**0.080**	**6.2**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**4.6**	**0.20**	**16**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 2 INDOOR DUP

GC/MS Volatiles

Lot-Sample # H2C130401 - 006 **Work Order #** MRDHN1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	**0.24**	**0.080**	**1.6**	**0.54**
Toluene	**7.5**	**0.080**	**28**	**0.30**
m-Xylene & p-Xylene	**4.8**	**0.080**	**21**	**0.35**
o-Xylene	**1.6**	**0.080**	**7.1**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.20**	**0.080**	**1.1**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	114	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 3 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 008 **Work Order #** MRDHQ1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/13/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	**0.15**	**0.080**	**0.81**	**0.44**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**0.47**	**0.080**	**2.3**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	**1.1**	**0.080**	**4.4**	**0.32**
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.12**	**0.080**	**0.61**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**0.69**	**0.32**	**2.0**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.60**	**0.080**	**1.9**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.059**	**0.040**	**0.37**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.55**	**0.080**	**2.7**	**0.39**
Cyclohexane	**2.2**	**0.20**	**7.7**	**0.69**
Chloromethane	ND	0.20	ND	0.41
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.62**	**0.080**	**3.1**	**0.40**
Ethanol	**18**	**0.80**	**34**	**1.5**
Ethylbenzene	**0.51**	**0.080**	**2.2**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**0.87**	**0.20**	**3.1**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 3 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 008 **Work Order #** MRDHQ1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	**0.29**	**0.080**	**1.2**	**0.34**
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**3.3**	**0.080**	**12**	**0.30**
m-Xylene & p-Xylene	**1.6**	**0.080**	**7.0**	**0.35**
o-Xylene	**0.65**	**0.080**	**2.8**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.23**	**0.080**	**1.3**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	116	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 3 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 009 **Work Order #** MRDHR1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/14/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**0.50**	**0.32**	**1.5**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.27**	**0.080**	**0.87**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.079**	**0.040**	**0.50**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	**0.56**	**0.20**	**1.2**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.52**	**0.080**	**2.6**	**0.40**
Ethanol	**2.9**	**0.80**	**5.5**	**1.5**
Ethylbenzene	**0.12**	**0.080**	**0.51**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**0.21**	**0.20**	**0.73**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 3 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 009 **Work Order #** MRDHR1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.50**	**0.080**	**1.9**	**0.30**
m-Xylene & p-Xylene	**0.43**	**0.080**	**1.9**	**0.35**
o-Xylene	**0.17**	**0.080**	**0.75**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.18**	**0.080**	**1.0**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	109	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 3 OUTDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 010 **Work Order #** MRDHT1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/14/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**0.37**	**0.32**	**1.1**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.24**	**0.080**	**0.77**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.089**	**0.040**	**0.56**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	**0.63**	**0.20**	**1.3**	**0.41**
cis-1,2-Dichloroethene	**0.14**	**0.080**	**0.54**	**0.32**
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.61**	**0.080**	**3.0**	**0.40**
Ethanol	**1.8**	**0.80**	**3.4**	**1.5**
Ethylbenzene	ND	0.080	ND	0.35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	ND	0.20	ND	0.70
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 3 OUTDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 010 **Work Order #** MRDHT1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.31**	**0.080**	**1.2**	**0.30**
m-Xylene & p-Xylene	**0.15**	**0.080**	**0.63**	**0.35**
o-Xylene	ND	0.080	ND	0.35
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.18**	**0.080**	**1.0**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	114	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2C130000 - 128B **Work Order #** MRD7A1AA **Matrix.....:** AIR

	03/09/2012	**Date Received..:**	03/10/2012
Prep Date.....:	03/13/2012	**Analysis Date...**	03/13/2012
Prep Batch #.....:	2073128		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	ND	0.32	ND	0.94
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	ND	0.080	ND	0.26
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	ND	0.040	ND	0.25
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	ND	0.20	ND	0.41
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	ND	0.080	ND	0.40
Ethanol	ND	0.80	ND	1.5
Ethylbenzene	ND	0.080	ND	0.35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	ND	0.20	ND	0.70

New York State D.E.C.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2C130000 - 128B **Work Order #** MRD7A1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Hexachlorobutadiene	ND	0.080	ND	0.85
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	ND	0.080	ND	0.30
m-Xylene & p-Xylene	ND	0.080	ND	0.35
o-Xylene	ND	0.080	ND	0.35
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	ND	0.080	ND	0.45
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2C130000 - 128C **Work Order #** MRD7A1AC **Matrix.....:** AIR

	03/09/2012	**Date Received..:**	03/10/2012
Prep Date.....:	03/13/2012	**Analysis Date...**	03/13/2012
Prep Batch #.....:	2073128		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
1,1,1-Trichloroethane	5.00	5.82	27	31.7	116	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.76	34	32.7	95	70 - 130
1,1,2-Trichlorotrifluoroethane	5.00	4.73	38	36.3	95	70 - 130
1,1,2-Trichloroethane	5.00	4.88	27	26.6	98	70 - 130
1,1-Dichloroethane	5.00	5.94	20	24.0	119	70 - 130
1,1-Dichloroethene	5.00	5.16	20	20.5	103	70 - 130
1,2,4-Trichlorobenzene	5.00	3.54	37	26.3	71	60 - 140
1,2,4-Trimethylbenzene	5.00	4.46	25	21.9	89	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.56	38	35.0	91	70 - 130
1,2-Dichlorobenzene	5.00	4.11	30	24.7	82	70 - 130
1,2-Dichloroethane	5.00	5.87	20	23.8	117	70 - 130
1,2-Dichloropropane	5.00	5.66	23	26.1	113	70 - 130
1,3,5-Trimethylbenzene	5.00	4.52	25	22.2	90	70 - 130
1,4-Dichlorobenzene	5.00	4.27	30	25.7	85	70 - 130
1,4-Dioxane	5.00	4.31	18	15.5	86	60 - 140
2-Butanone (MEK)	5.00	4.51	15	13.3	90	60 - 140
1,3-Dichlorobenzene	5.00	4.25	30	25.5	85	70 - 130
2,2,4-Trimethylpentane	5.00	6.04	23	28.2	121	70 - 130
Benzene	5.00	5.30	16	16.9	106	70 - 130
Benzyl chloride	5.00	4.66	26	24.1	93	70 - 130
Bromodichloromethane	5.00	5.41	34	36.3	108	70 - 130
Bromoform	5.00	4.10	52	42.4	82	60 - 140
Bromomethane	5.00	4.88	19	18.9	98	70 - 130
Carbon tetrachloride	5.00	5.05	31	31.8	101	70 - 130
Chlorobenzene	5.00	4.53	23	20.9	91	70 - 130
Chloroethane	5.00	5.05	13	13.3	101	70 - 130
Chloroform	5.00	5.57	24	27.2	111	70 - 130
Cyclohexane	5.00	5.16	17	17.7	103	70 - 130
Chloromethane	5.00	5.91	10	12.2	118	60 - 140
cis-1,2-Dichloroethene	5.00	5.43	20	21.5	109	70 - 130
cis-1,3-Dichloropropene	5.00	5.25	23	23.8	105	70 - 130
Dibromochloromethane	5.00	4.95	43	42.2	99	70 - 130
Dichlorodifluoromethane	5.00	6.27	25	31.0	125	60 - 140
Ethanol	24.6	25.6	46	48.3	104	20 - 180
Ethylbenzene	5.00	5.04	22	21.9	101	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluo roethane	5.00	5.14	35	35.9	103	60 - 140

New York State D.E.C.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2C130000 - 128C **Work Order #** MRD7A1AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
n-Hexane	5.00	5.82	18	20.5	116	70 - 130
Hexachlorobutadiene	5.00	3.64	53	38.8	73	60 - 140
4-Methyl-2-pentanone (MIBK)	5.00	5.75	20	23.6	115	60 - 140
Methyl tert-butyl ether	5.00	4.96	18	17.9	99	60 - 140
Methylene chloride	5.00	5.01	17	17.4	100	70 - 130
Styrene	5.00	4.70	21	20.0	94	70 - 130
tert-Butyl alcohol	5.00	5.61	15	17.0	112	60 - 140
Tetrachloroethene	5.00	4.82	34	32.7	96	70 - 130
Toluene	5.00	4.73	19	17.8	95	70 - 130
m-Xylene & p-Xylene	10.0	10.1	43	43.7	101	70 - 130
o-Xylene	5.00	4.93	22	21.4	99	70 - 130
trans-1,2-Dichloroethene	5.00	5.03	20	19.9	101	70 - 130
trans-1,3-Dichloropropene	5.00	5.02	23	22.8	100	70 - 130
Trichloroethene	5.00	4.76	27	25.6	95	70 - 130
Trichlorofluoromethane	5.00	4.63	28	26.0	93	60 - 140
Vinyl chloride	5.00	5 55	13	14.2	111	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

TAL Knoxville H2C130401
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: CHAD STANISZEWSKI	Sampled By: E. POPKEN (GES)	1 of 2 COCs
Company: NYSDEC REGION 9	Phone: 800-287-7857 (GES)		
Address: 270 MICHIGAN AVENUE	Site Contact: ERIC POPKEN (GES)		
City/State/Zip BUFFALO, NY 14203	TAL Contact: JAMIE MCGINNIS		
Phone: 716-851-7220			
FAX: 716-851-7226			
Project Name: FORMER VIBRATECH FACILITY	Analysis Turnaround Time		
Site/location: BUFFALO NY	Standard (Specify) 10 BUSINESS DAYS		
PO # SITE # 915765	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
HOUSE #1 SS	3/8-3/9/12	937	9:29	30	3	K407	12878	X									X		
HOUSE #1 INDOOR	3/8-3/9/12	942	9:31	29	4	K476	04337	X							X				
HOUSE #2 SS	3/8-3/9/12	1052	1042	29	0	K343	0112	X									X		
HOUSE #2 SS DUP	3/8-3/9/12	1052	10:42	29	4	K151	0120	X									X		
HOUSE #2 INDOOR	3/8/12-3/9/12	1100	1042	29	5	K464	93170	X							X				
HOUSE #2 INDOOR MS	3/8-3/9/12	1100	10:42	30	6	K188	12264	X							X				

Sampled by : ERIC POPKEN (GES)

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

2 Boxes Rec'd @ ambient Temp without custody seals 3/10/12
2 Boxes Fed X

Pressure (inches of Hg)	Interior	Ambient	
Start			4485 0260 5905
Stop			4485 0260 5927

10 CANS / 10 FLOWS / 1 THAN / 10 CC

Special Instructions/QC Requirements & Comments:
CATEGORY B ASP Deliverable.
NYSDEC EQUIS EDD.

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 3/9/12 1534	Received by: 3/9/12 1534
Relinquished by:	Date/Time: 3/9/12 1700	Received by: 3/10/12 845

TAL Knoxville H2 c 130401
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: CHAD STANISZEWSKI	Sampled By: ERIC POPKEN (GES)	2 of 2 COCs
Company: NYSDEC REGION 9	Phone: 800-287-7857 (GES)		
Address: 270 MICHIGAN AVE	Site Contact: E. POPKEN (GES)		
City/State/Zip BUFFALO, NY 14203	TAL Contact: JAMIE. MCKINNEY		
Phone: 716-851-7220			
FAX: 716-851-7226			
Project Name: FORMER VIBRATECH FACILITY	Analysis Turnaround Time		
Site/location: BUFFALO, NY	Standard (Specify) 10 BUSINESS DAYS		
PO # SITE #915165	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type: Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
HOUSE #2 / INDOOR MSD	3/8-3/9/12	1100	10:42	30	6	K421	3283N	X						X				
HOUSE #3 SS	3/8-3/9/12	1145	11:16	29	5	K132	1411	X								X		
HOUSE #3 INDOOR	3/8-3/9/12	1144	11:16	29	6	K437	4746	X						X				
HOUSE #3 OUTDOOR	3/8-3/9/12	1155		29	3	K391	12891	X							X			

4746

Sampled by : ERIC POPKEN (GES)

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

CATEGORY B ASP DELIVERABLE.

NYSDEC EQUIS EDD.

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 3/9/12 1534	Received by: 3/9/12 1534
Relinquished by:	Date/Time: 3/9/12 1700	Received by: 3/10/12 845

H2C130401

McKinney, Jamie

From: Chad Staniszewski <crstanis@gw.dec.state.ny.us>
Sent: Friday, March 16, 2012 9:50 AM
To: McKinney, Jamie
Cc: Eric D. Popken
Subject: RE: H2C130401 - House #2 Indoor

Hi again Jamie,

Sorry for the delay I wanted to talk to our Central Office folks before I got back to you.

Please run the original sample and one duplicate. Do NOT run the 3rd can. No spikes or MSD.

I think this is all you need but if not let me know. And if you still need to talk to me let me know and I will give you a call.

Thanks,
Chad

Chad Staniszewski, PE
Environmental Engineer II
NYS Department of Environmental Conservation Region 9
270 Michigan
Buffalo, NY 14203-2999

Office Phone: (716) 851-7220
Office Fax: (716) 851-7226

>>> "McKinney, Jamie" <Jamie.McKinney@testamericainc.com> 3/15/2012 9:29
>>> AM >>>
Hey Chad!
The method doesn't reference a matrix spike/matrix spike duplicate and our SOP is written the same way. We are not set up to perform matrix spike/matrix spike duplicates with methods TO14A or TO15. So far it hasn't been a problem with our other NYSDEC projects.
Right now those 3 cans are logged as individual samples. We can either run each as an individual sample, run one as the original and one as the duplicate, or run the original and cancel the MS and MSD cans?
Please let me know which way you want us to proceed or give me a call if you have further questions.
Jamie

H2C130401

-----Original Message-----
From: Chad Staniszewski [mailto:crstanis@gw.dec.state.ny.us]
Sent: Thursday, March 15, 2012 9:15 AM
To: McKinney, Jamie
Cc: Eric D. Popken
Subject: Re: H2C130401 - House #2 Indoor

Hi Jamie,

Just so I understand correctly, I am assuming the problem is that the test method does not provide a procedure for splitting a spiked air sample? Or does the test method not provide a procedure for spiking the air sample?

If it is simply a test method/procedural issue, then yes spike the sample and run one as the original and one as the duplicate. If it is more than that, then I will give you a call to discuss. Labs have done this for us in the past and that is why I am thinking it is more a test method issue than an actually issue with spiking and splitting.

Let me know.

Thanks,
Chad

Chad Staniszewski, PE
Environmental Engineer II
NYS Department of Environmental Conservation Region 9
270 Michigan
Buffalo, NY 14203-2999

Office Phone: (716) 851-7220
Office Fax: (716) 851-7226

>>> "McKinney, Jamie" <Jamie.McKinney@testamericainc.com> 3/14/2012
>>> 12:56 PM >>>
Chad,
Sample House #2 Indoor was received with an associated MS/MSD. However, MS/MSDs are not applicable to method TO15. Do you want us to run each as individual samples, run one as the original and one as the duplicate, or cancel the MS and MSD sample? Please give me a call if you have further questions before you can make a decision.
Jamie

HZC130401

Announcing TotalAccess 4.0 - Online access to your data. New homepage with easier access to your data, multiple search criteria including sampling date and much more! Contact your Account Executive or Project Manager today to arrange for a live demonstration!

JAMIE MCKINNEY
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

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Knoxville, TN 37921
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TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H2C130401

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	4A
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 90206 PM Instructions: _____

Sample Receiving Associate: [signature] Date: 3/10/12

QA026R22.doc, 012811

11645

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: *H2C130401*

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
DDF 3-13-12	NA	29.05	MRDHH	12878	-3.3													9758
			MRDHJ	04337	-4.5													9754
			MRDHK	0112	0													
			MRDHL	0120	-3.8													
			MRDHM	93170	-4.0													
			MRDHN	12264	-4.2													
			MRDHP	3283N	-3.6													
			MRDHQ	1411	-4.8													
			MRDHR	04746	-3.2													
			MRDHT	12891	-3.7													

Volatiles

Raw Sample Data

New York State D.E.C.

Client Sample ID: HOUSE # 1 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 001 **Work Order #** MRDHH1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/13/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**1.0**	**0.080**	**4.9**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.26**	**0.080**	**1.3**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**1.8**	**0.32**	**5.2**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.41**	**0.080**	**1.3**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.071**	**0.040**	**0.45**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.45**	**0.080**	**2.2**	**0.39**
Cyclohexane	**0.33**	**0.20**	**1.1**	**0.69**
Chloromethane	ND	0.20	ND	0.41
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.55**	**0.080**	**2.7**	**0.40**
Ethanol	**2.2**	**0.80**	**4.2**	**1.5**
Ethylbenzene	**0.63**	**0.080**	**2.7**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**0.88**	**0.20**	**3.1**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 1 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 001 **Work Order #** MRDHH1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	**0.23**	**0.20**	**0.78**	**0.69**
Styrene	**0.42**	**0.080**	**1.8**	**0.34**
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**3.1**	**0.080**	**12**	**0.30**
m-Xylene & p-Xylene	**2.1**	**0.080**	**9.3**	**0.35**
o-Xylene	**0.88**	**0.080**	**3.8**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.24**	**0.080**	**1.4**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	115	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d
Report Date: 14-Mar-2012 13:23

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d
Lab Smp Id: MRDHH1AA Client Smp ID: HOUSE # 1 SS
Inj Date : 13-MAR-2012 16:14
Operator : 7126 Inst ID: mg.i
Smp Info : ,,0,,,
Misc Info : G031312,TO15,nysdec.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 14-Mar-2012 13:23 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

3/16/12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.184	8.168	(1.000)	509697	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.298	10.281	(1.000)	2616230	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.108	15.102	(1.000)	2480190	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.779	16.779	(1.111)	2069830	4.60876	4.609
	7 Dichlorodifluoromethane	85	3.746	3.724	(0.458)	270269	0.55267	0.5527
	20 Trichlorofluoromethane	101	4.959	4.943	(0.606)	119151	0.24275	0.2428
	28 tert-butanol	59	5.870	5.736	(0.717)	4966	0.02475	0.02475
	31 Methylene Chloride	84	5.887	5.870	(0.719)	31096	0.22563	0.2256
	40 Hexane	56	7.434	7.418	(0.908)	129287	0.87608	0.8761
	39 2-Butanone	72	7.580	7.553	(0.926)	121593	1.76076	1.761
	43 Chloroform	83	8.195	8.178	(1.001)	165183	0.44664	0.4466
	49 Cyclohexane	69	9.661	9.645	(0.938)	30985	0.33231	0.3323
	48 Benzene	78	9.710	9.699	(0.943)	199794	0.40626	0.4062
	50 Carbon Tetrachloride	117	9.726	9.710	(0.944)	30168	0.07121	0.07121
	65 Toluene	91	13.091	13.085	(0.866)	1900752	3.14584	3.146
	76 Ethylbenzene	91	15.442	15.442	(1.022)	481331	0.63142	0.6314

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d
Report Date: 14-Mar-2012 13:23

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
78 m&p-Xylene	91	15.604	15.604	(1.033)	1271762	2.14415	2.144
81 Styrene	104	16.089	16.089	(1.065)	182291	0.41591	0.4159
82 o-Xylene	91	16.143	16.138	(1.069)	541578	0.87570	0.8757
90 1,3,5-Trimethylbenzene	120	17.529	17.529	(1.160)	100688	0.25773	0.2577
94 1,2,4-Trimethylbenzene	105	17.992	17.987	(1.191)	696343	1.00613	1.006
17 ~ ethanol	31	4.663	4.609	(0.570)	104979	2.21899	2.219

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d
Report Date: 14-Mar-2012 13:23

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: mrdhh1aa.d
Lab Smp Id: MRDHH1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: HOUSE # 1 SS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	509697	-9.17
2 1,4-Difluorobenze	2909107	1730919	4087295	2616230	-10.07
3 Chlorobenzene-d5	2830968	1684426	3977510	2480190	-12.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.18	0.20
2 1,4-Difluorobenze	10.28	9.95	10.61	10.30	0.16
3 Chlorobenzene-d5	15.10	14.77	15.43	15.11	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d
Report Date: 14-Mar-2012 13:23

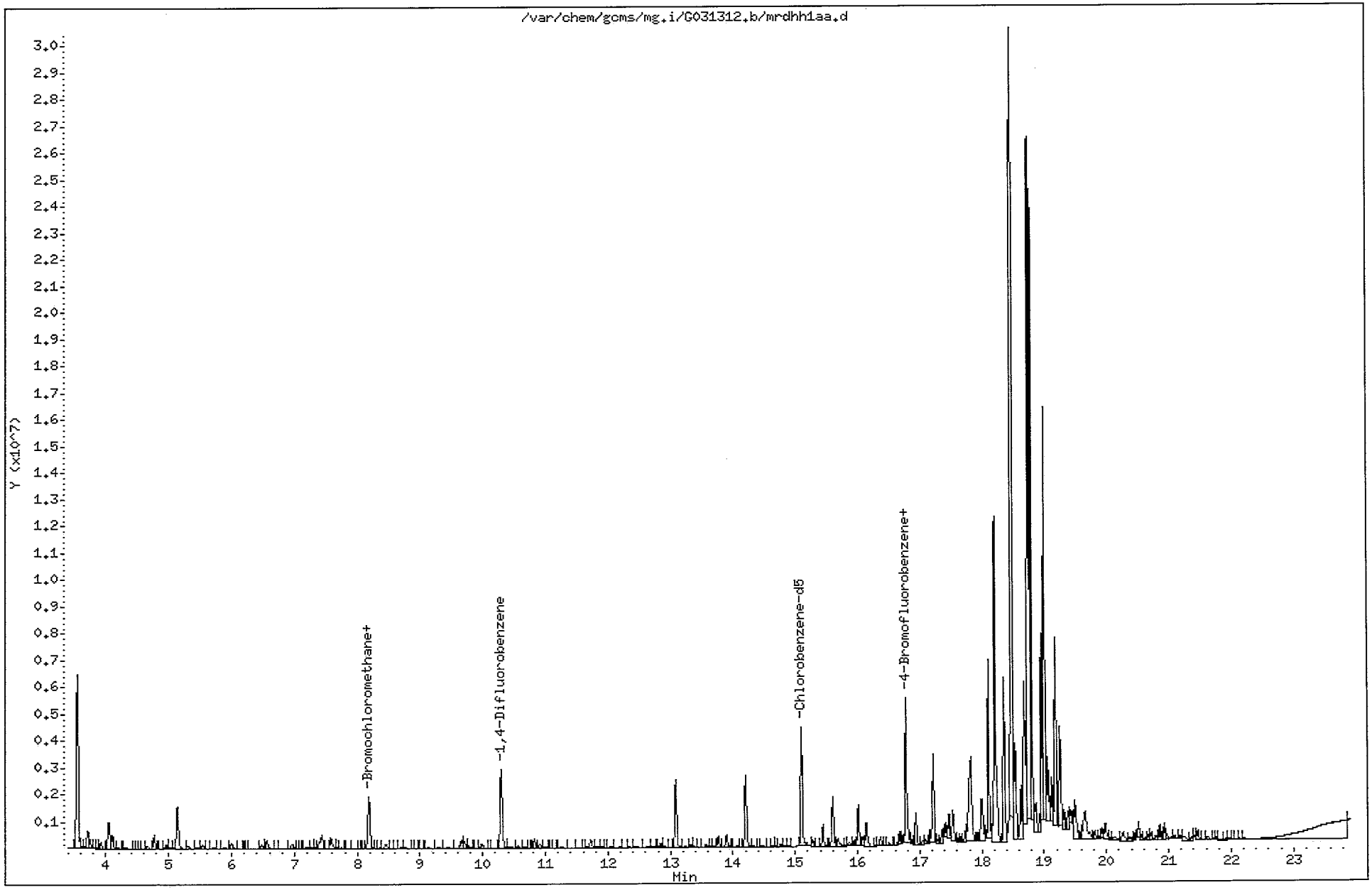
TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C10-MAR-2012 00:00 Client SDG: H2C130401
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MRDHH1AA Client Smp ID: HOUSE # 1 SS
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.609	115.22	70-130

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d
Date : 13-MAR-2012 16:14
Client ID: HOUSE # 1 SS
Instrument: mg.i
Sample Info: ,,0,,,
Purge Volume: 500.0
Operator: 7126
Column phase: Rtx-5
Column diameter: 0.32



Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

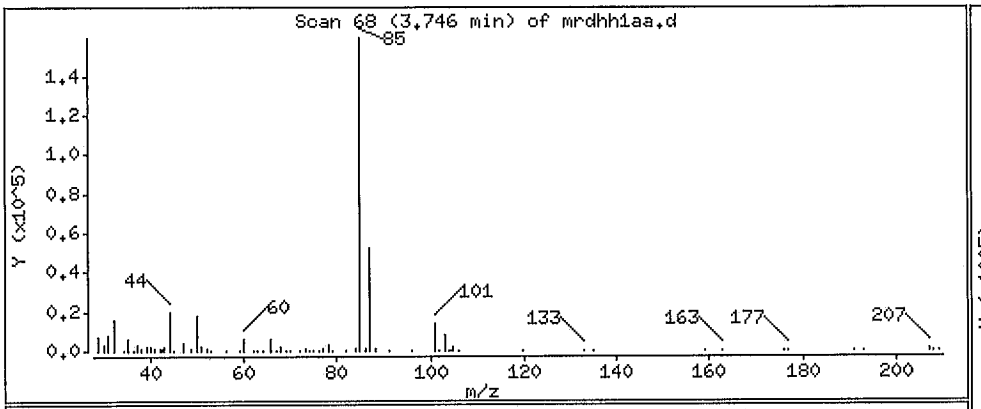
Operator: 7126

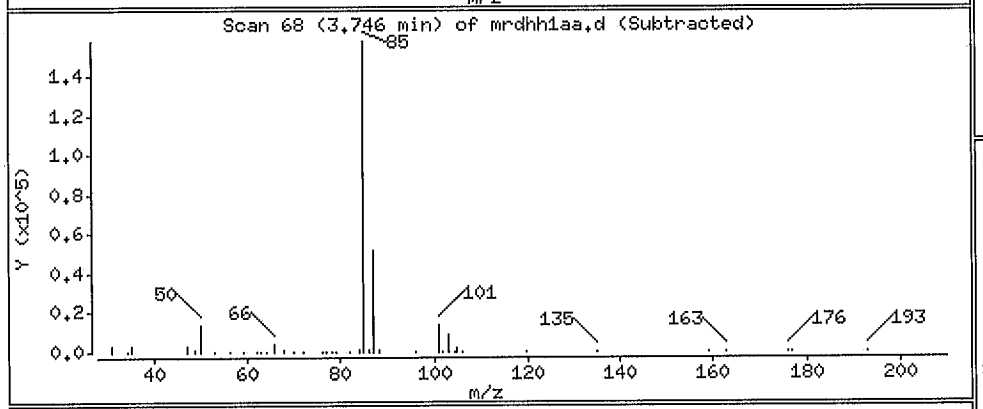
Column phase: Rtx-5

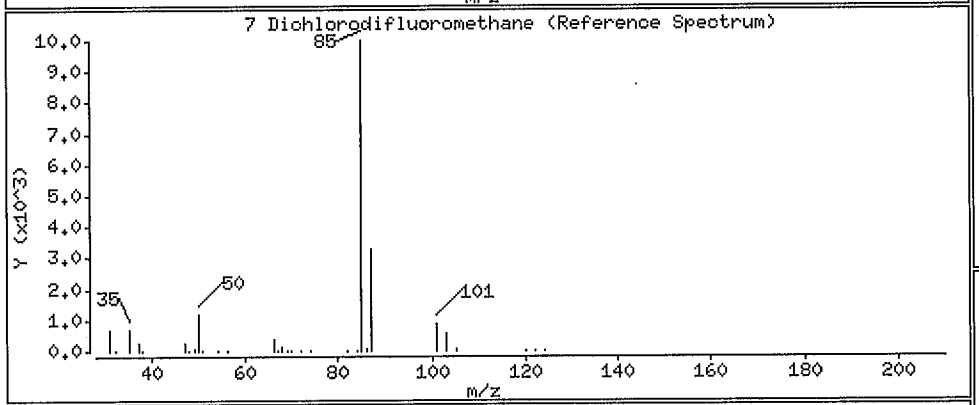
Column diameter: 0.32

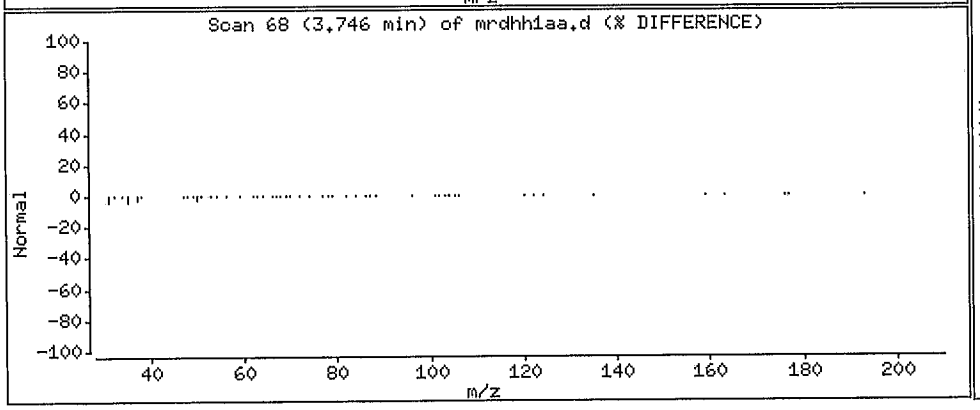
7 Dichlorodifluoromethane

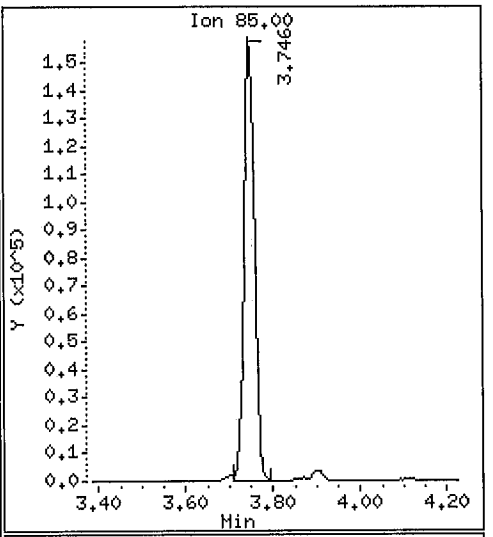
Concentration: 0.5527 ppb(v/v)

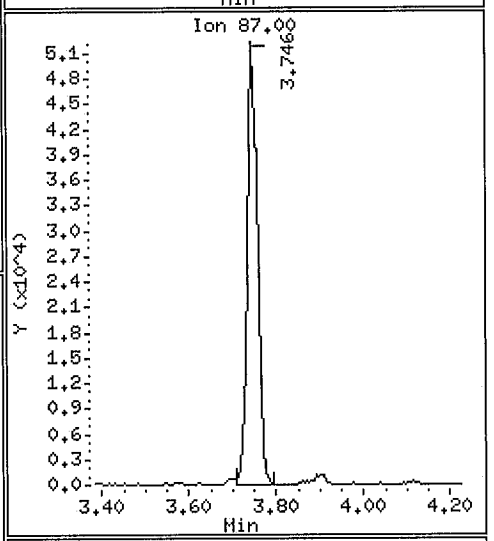


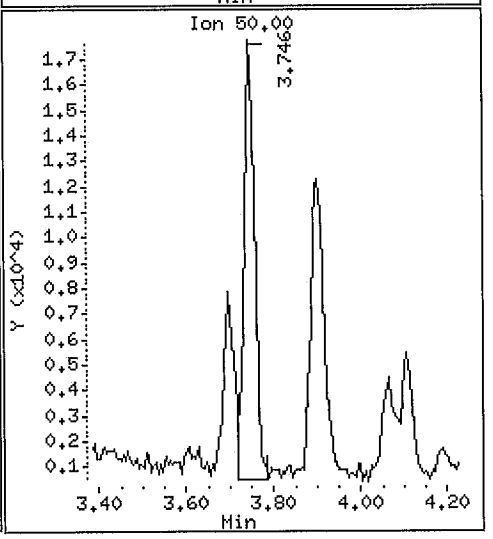












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

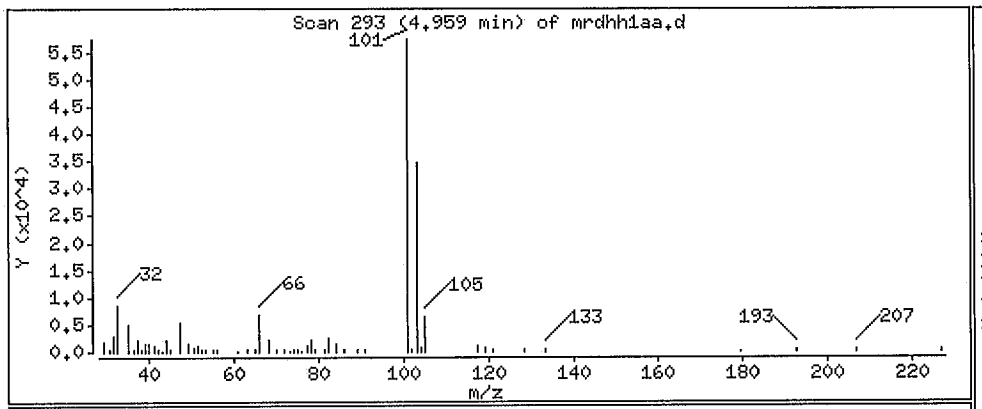
Operator: 7126

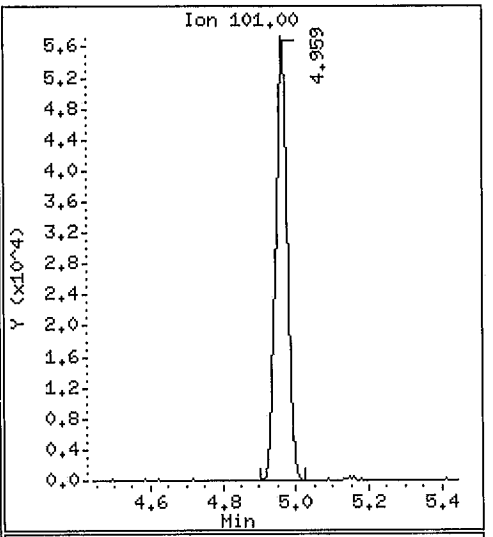
Column phase: Rtx-5

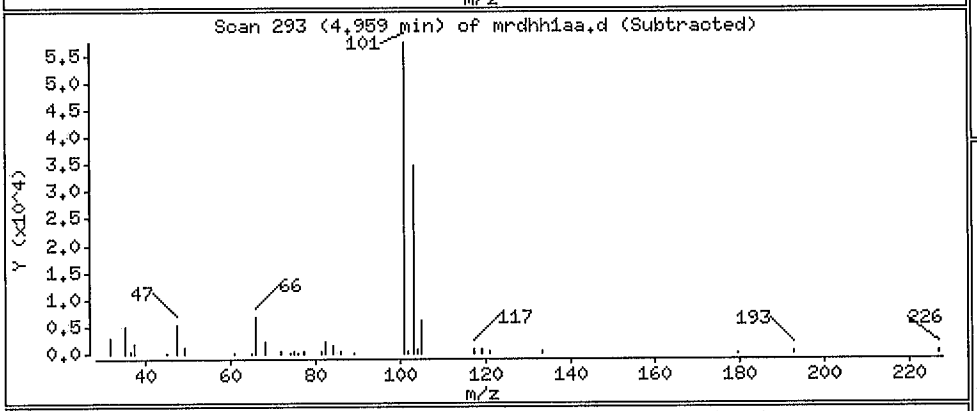
Column diameter: 0.32

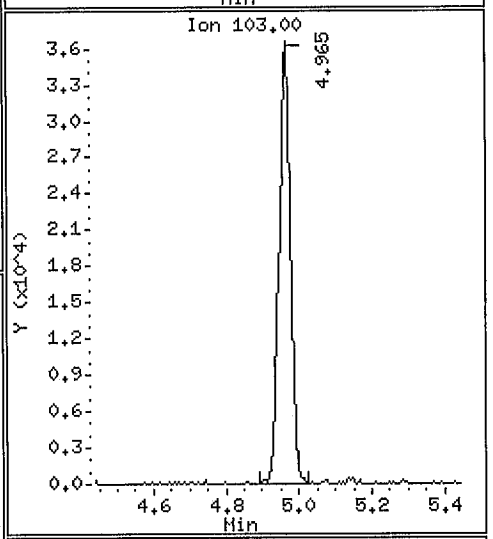
20 Trichlorofluoromethane

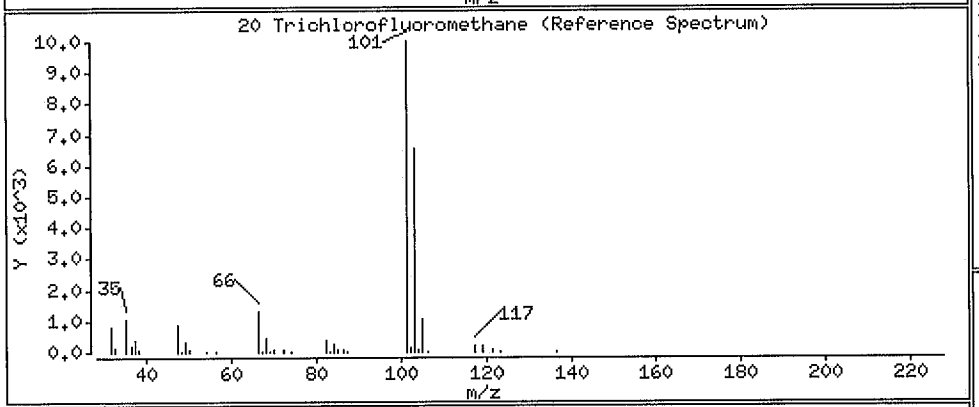
Concentration: 0.2428 ppb(v/v)

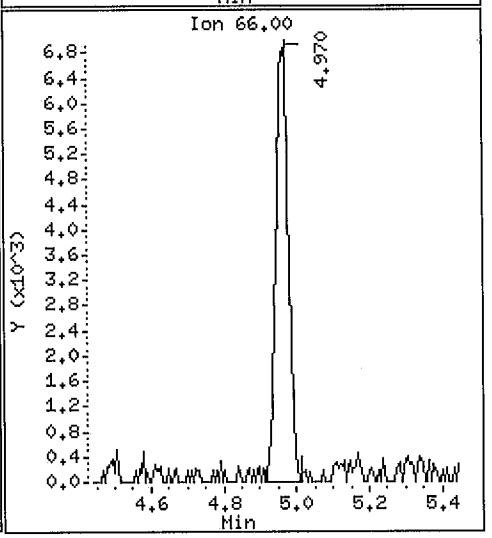


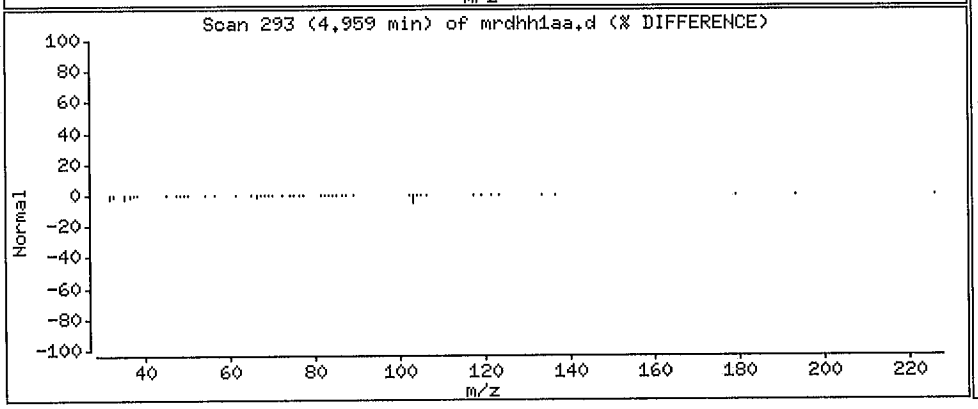












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

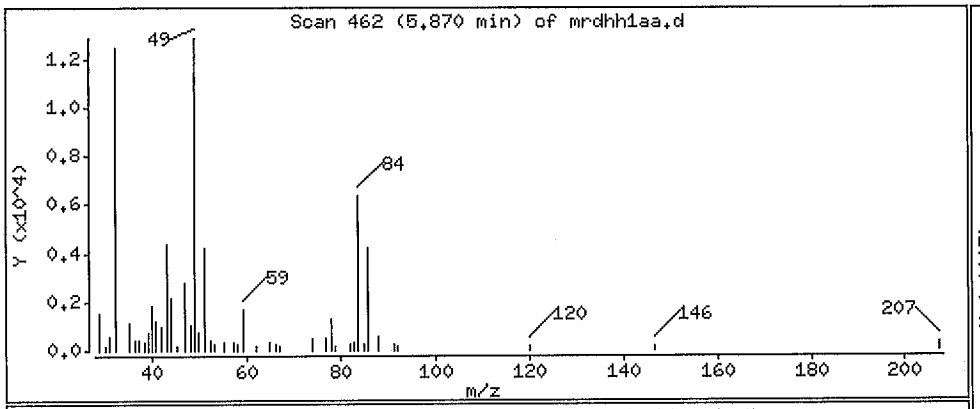
Operator: 7126

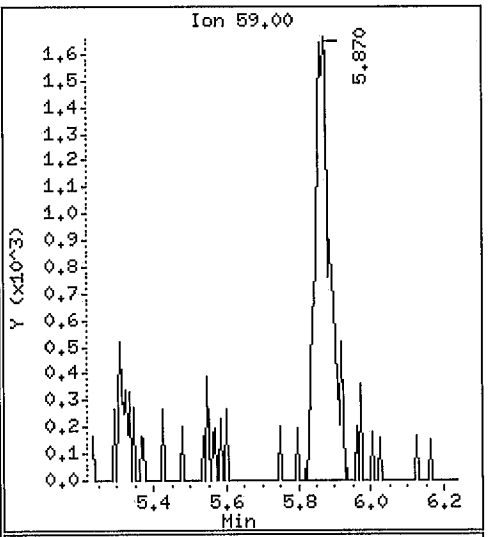
Column phase: Rtx-5

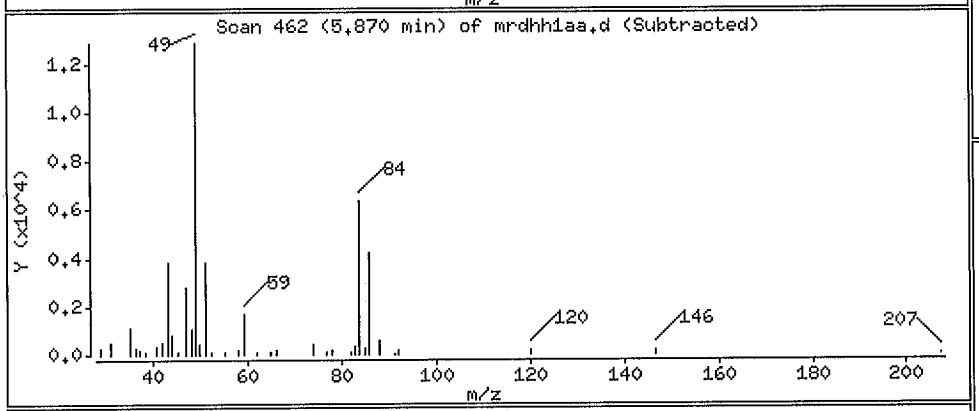
Column diameter: 0.32

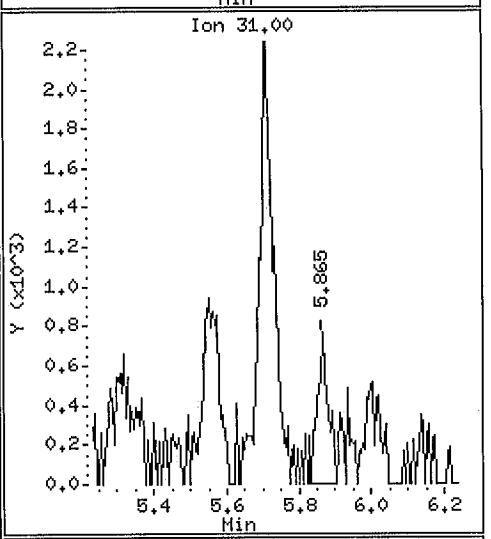
28 tert-butanol

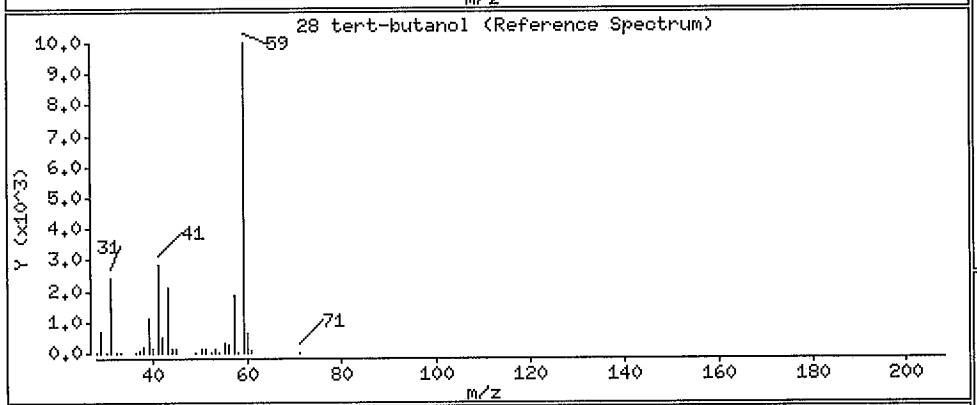
Concentration: 0.02475 ppb(v/v)

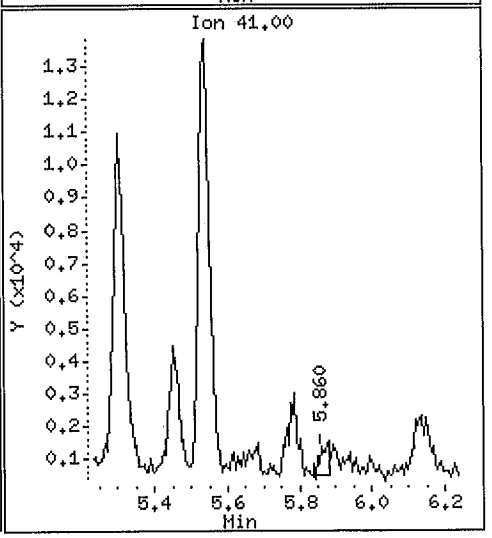


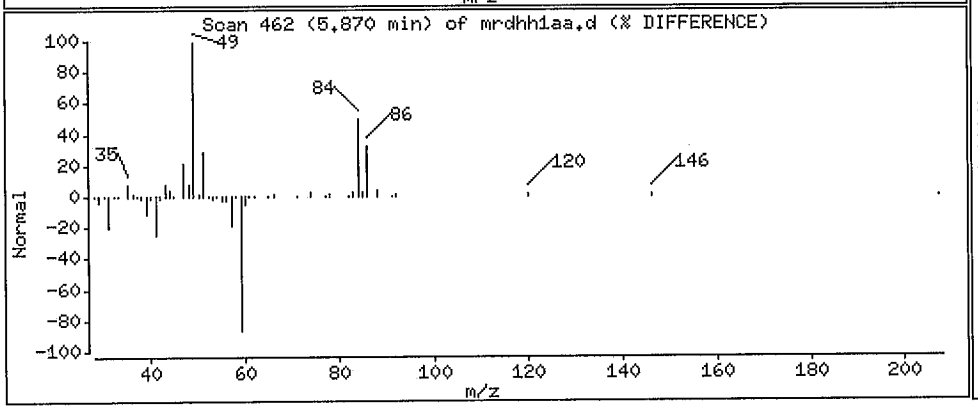












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

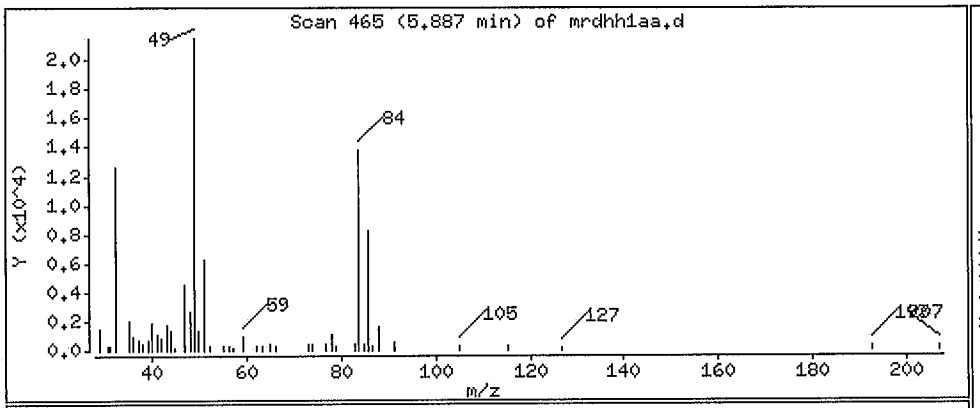
Operator: 7126

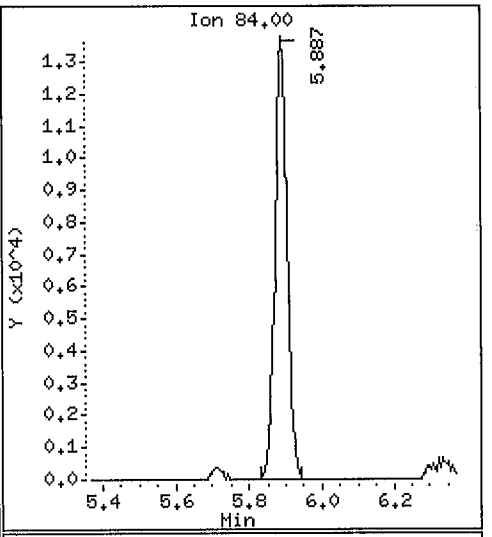
Column phase: Rtx-5

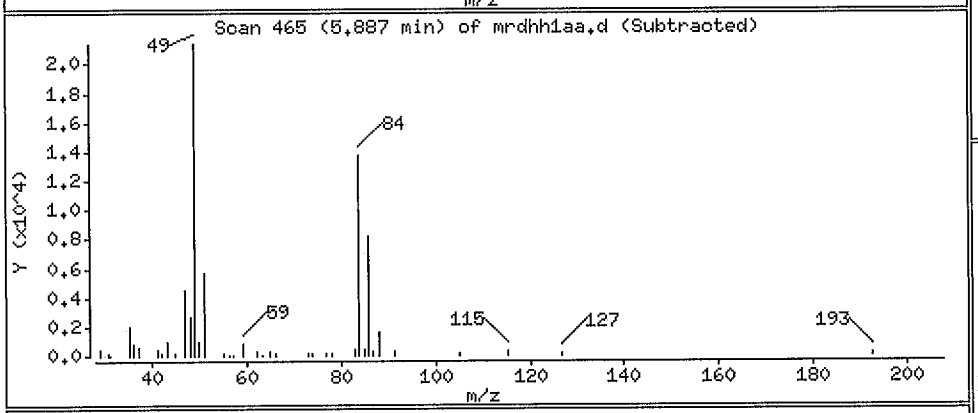
Column diameter: 0.32

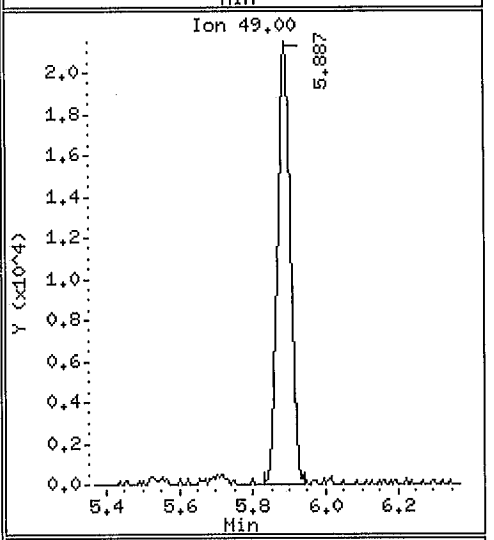
31 Methylene Chloride

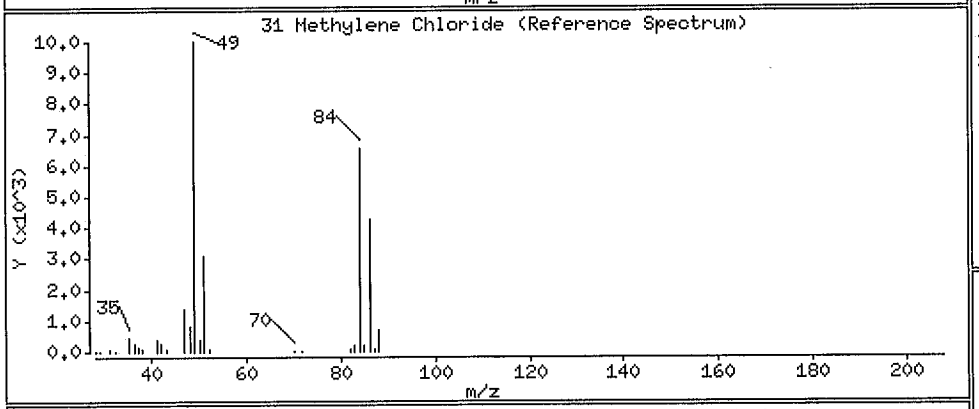
Concentration: 0.2256 ppb(v/v)

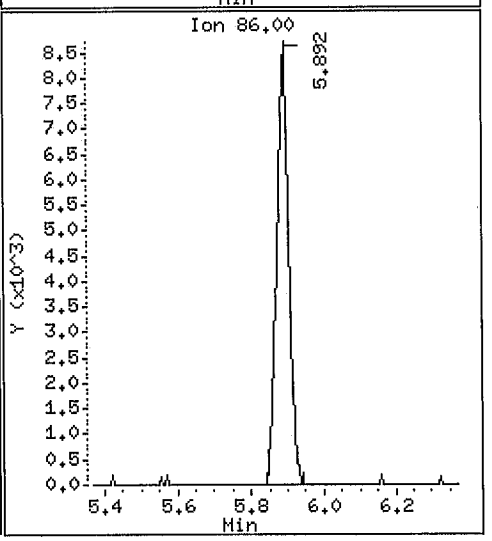


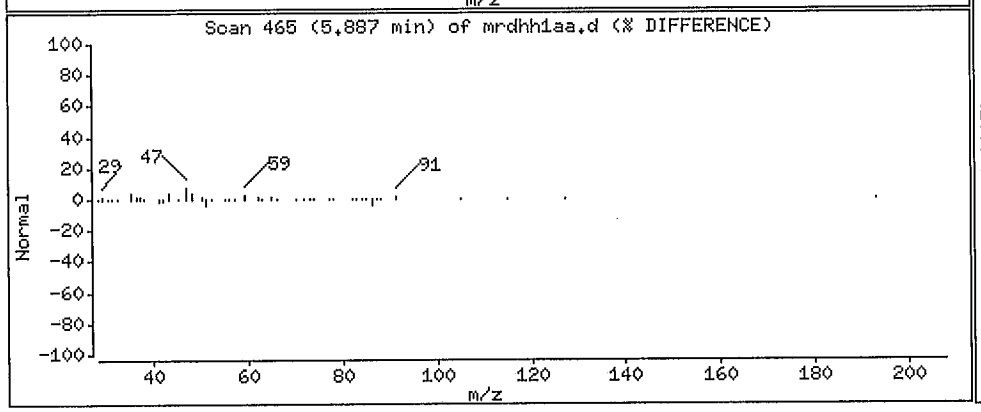












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

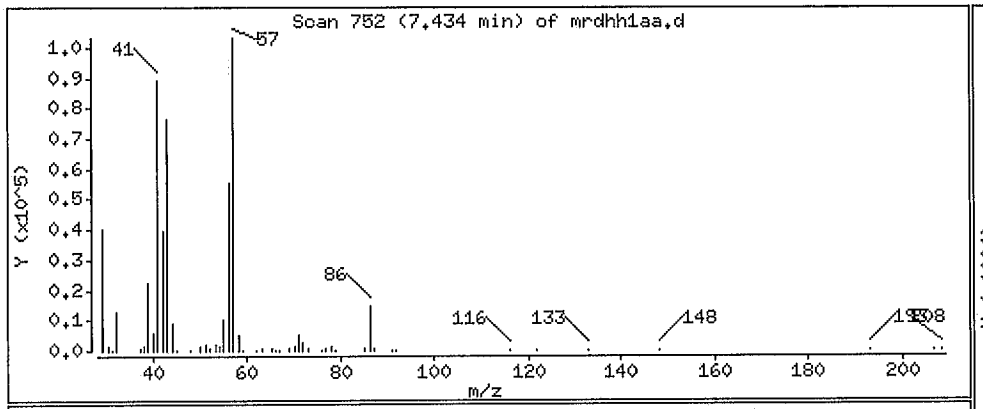
Operator: 7126

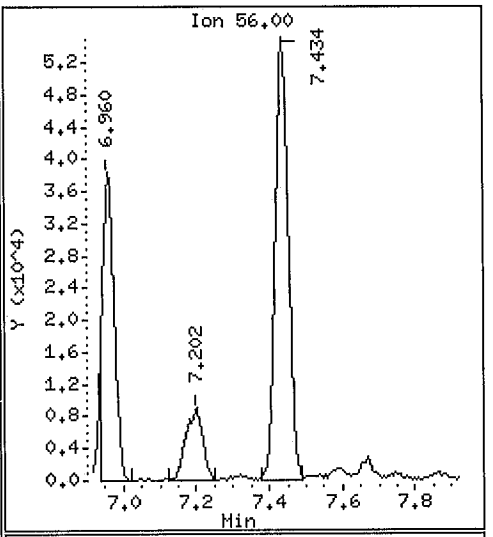
Column phase: Rtx-5

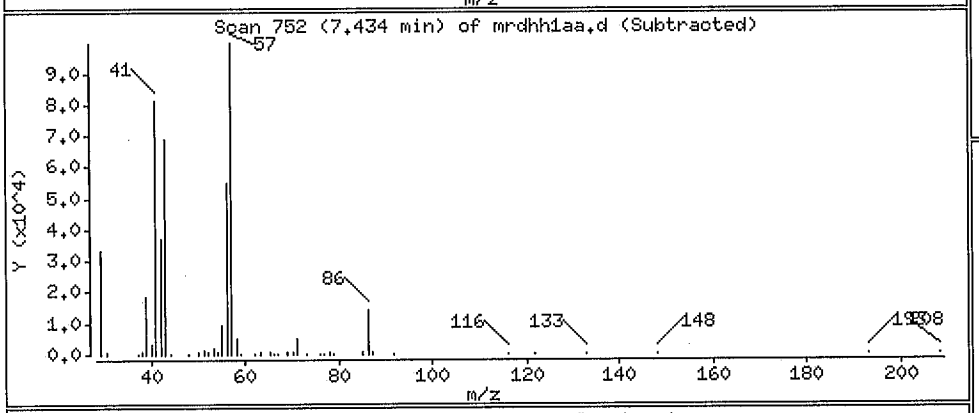
Column diameter: 0.32

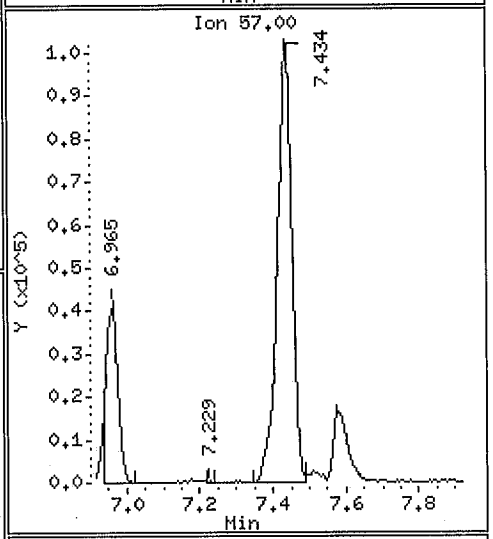
40 Hexane

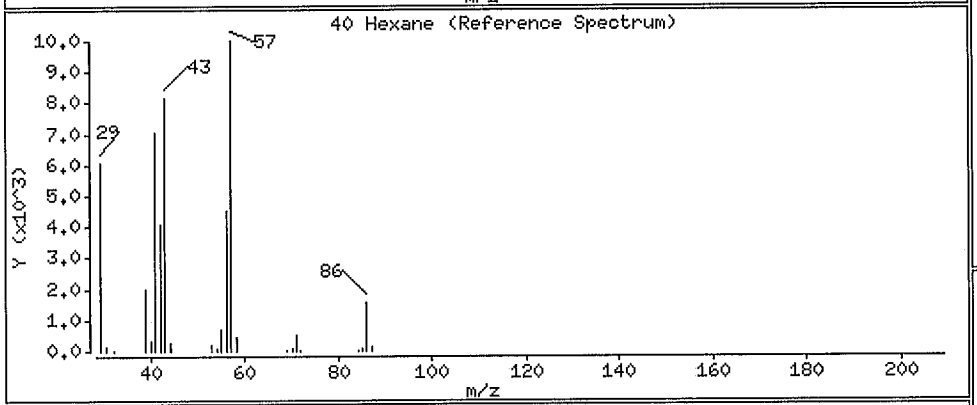
Concentration: 0.8761 ppb(v/v)

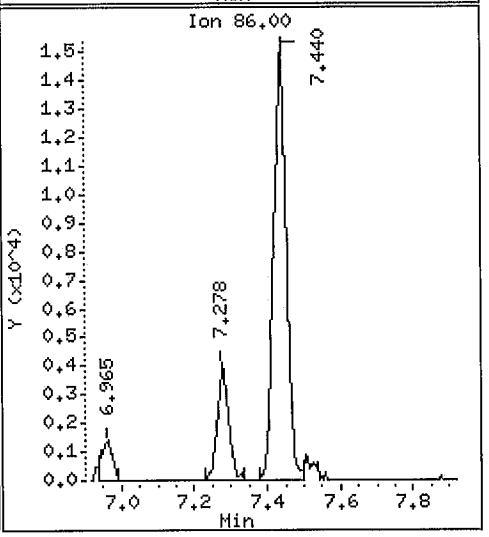


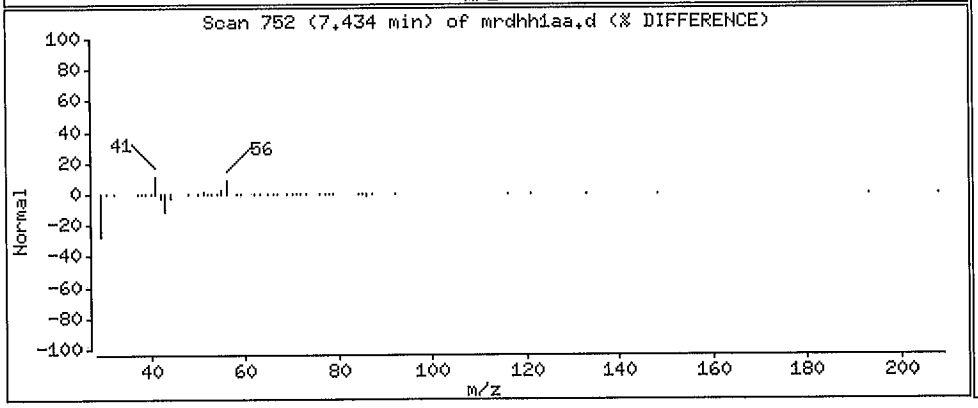












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

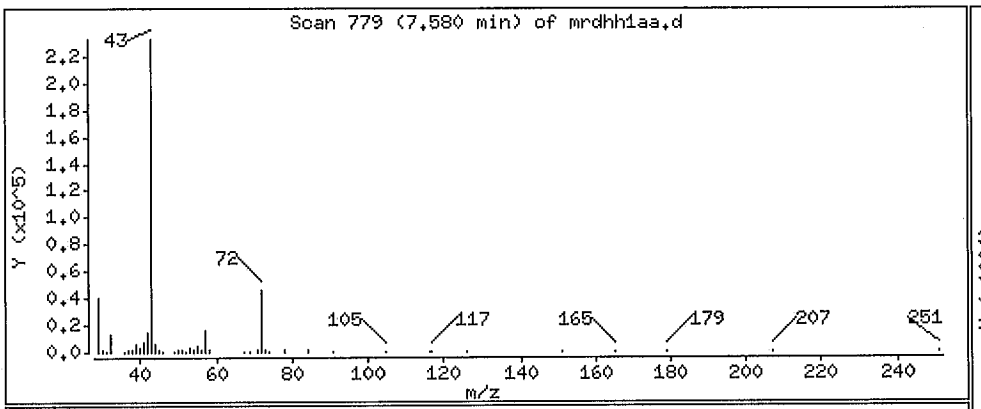
Operator: 7126

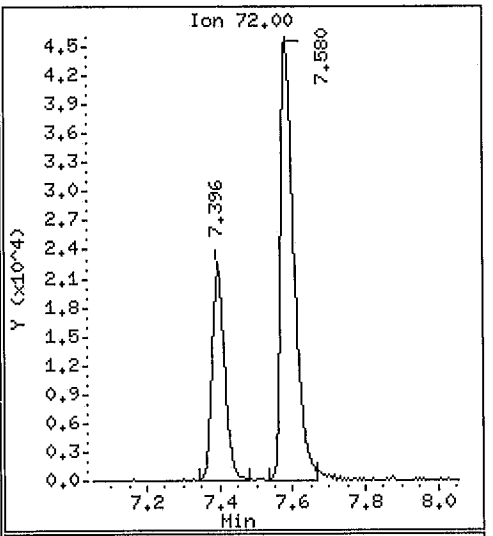
Column phase: Rtx-5

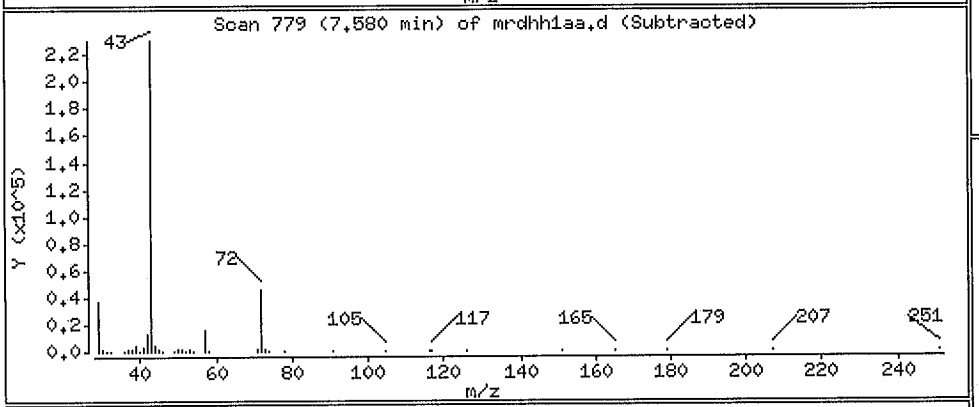
Column diameter: 0.32

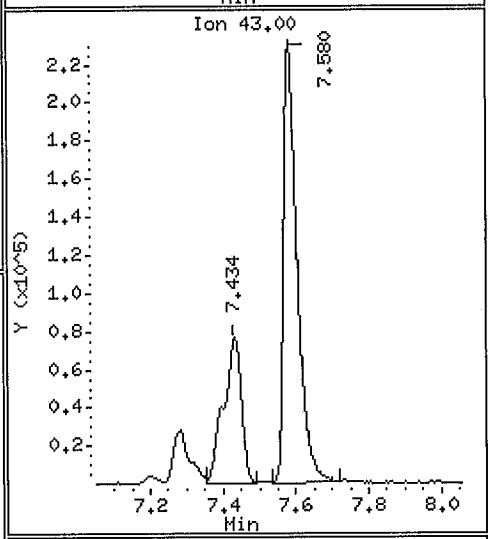
39 2-Butanone

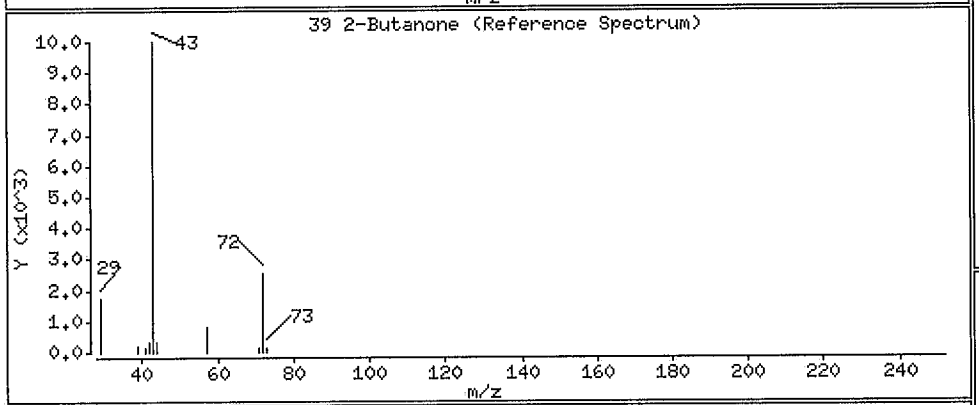
Concentration: 1.761 ppb(v/v)

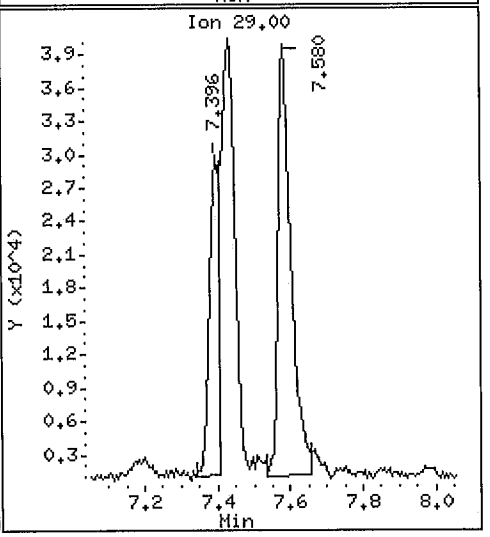


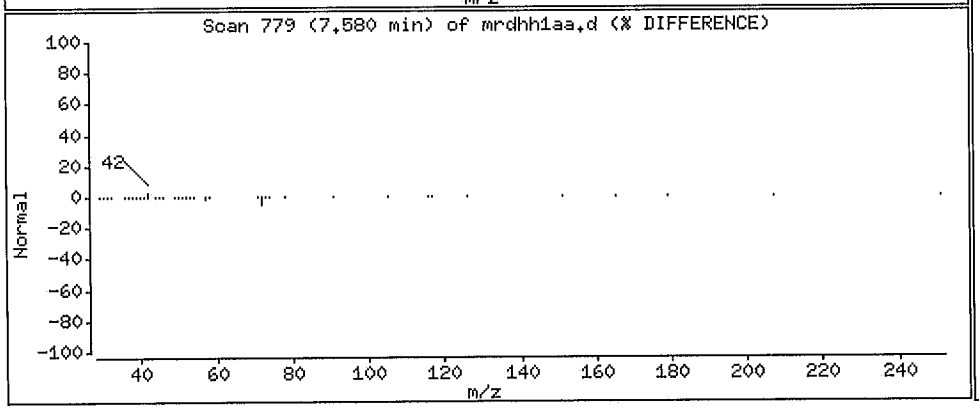












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

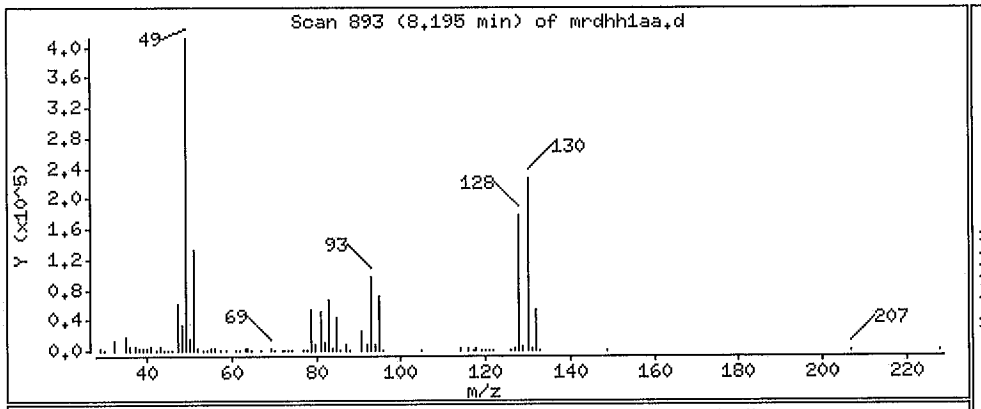
Operator: 7126

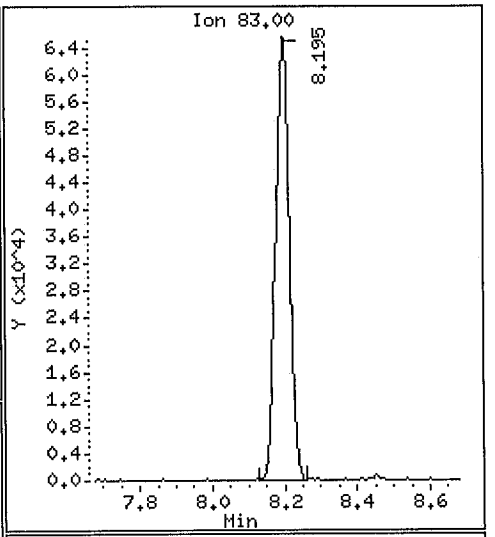
Column phase: Rtx-5

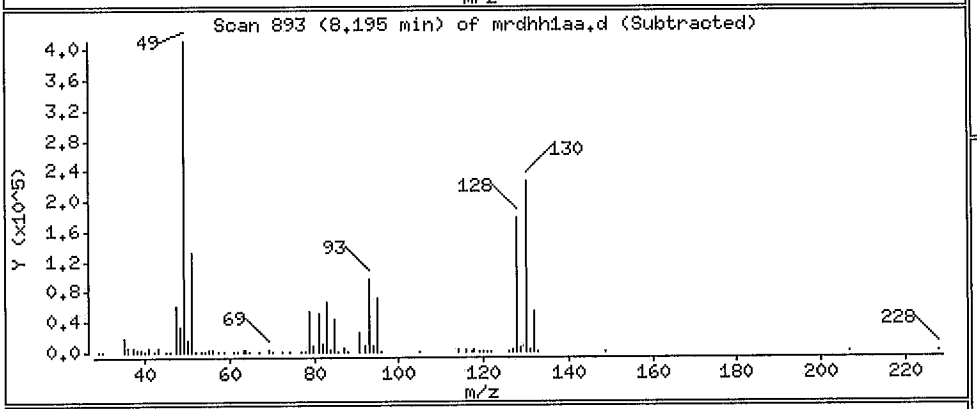
Column diameter: 0.32

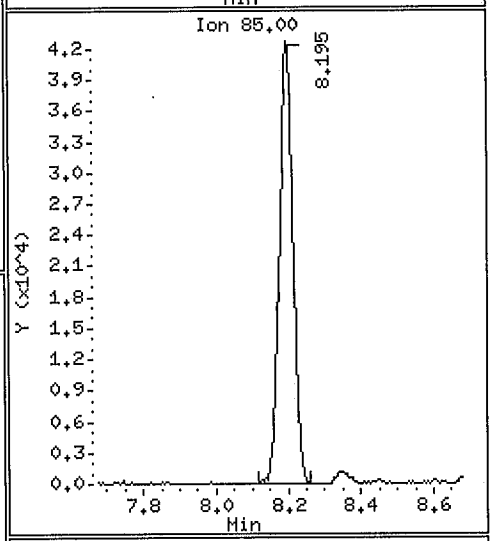
43 Chloroform

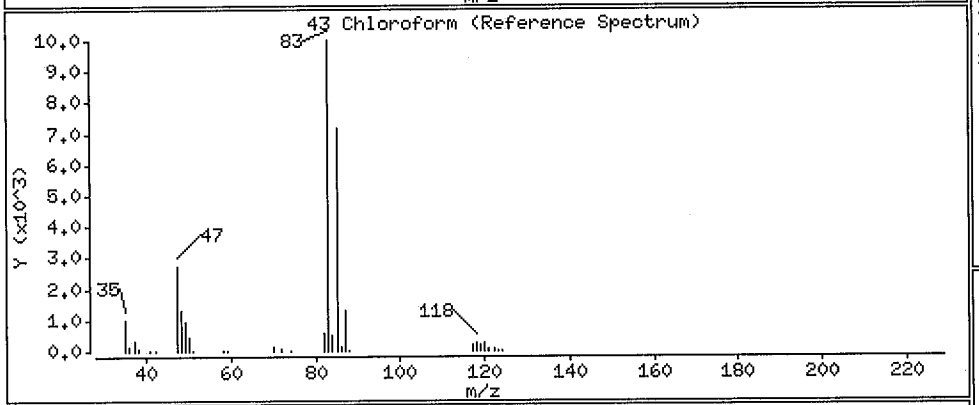
Concentration: 0.4466 ppb(v/v)

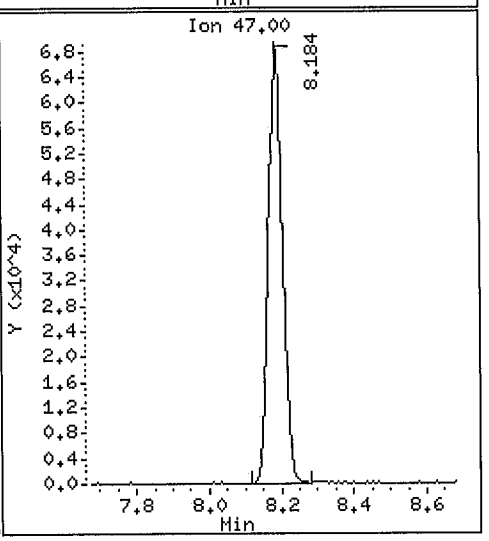


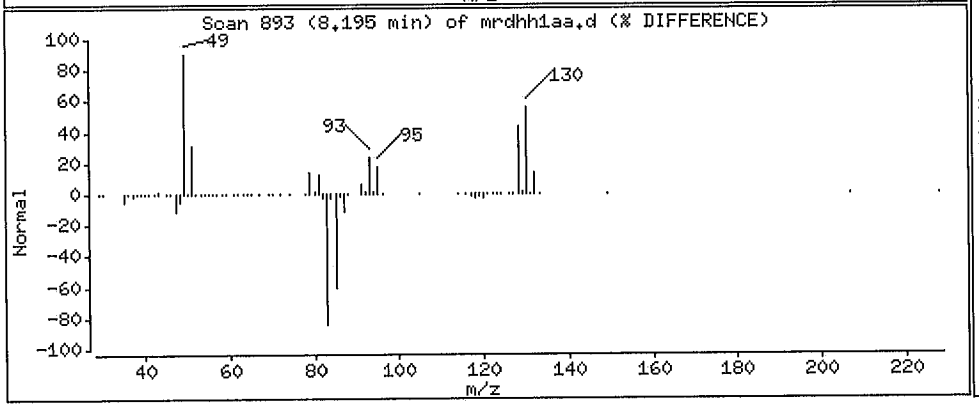












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

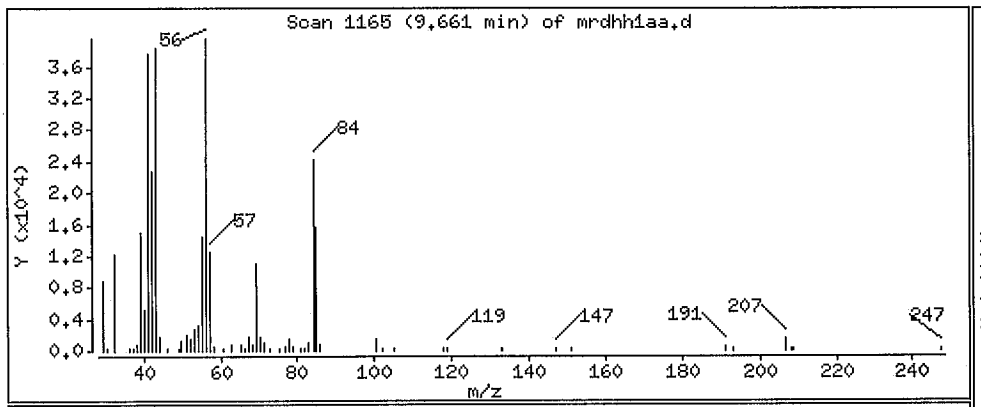
Operator: 7126

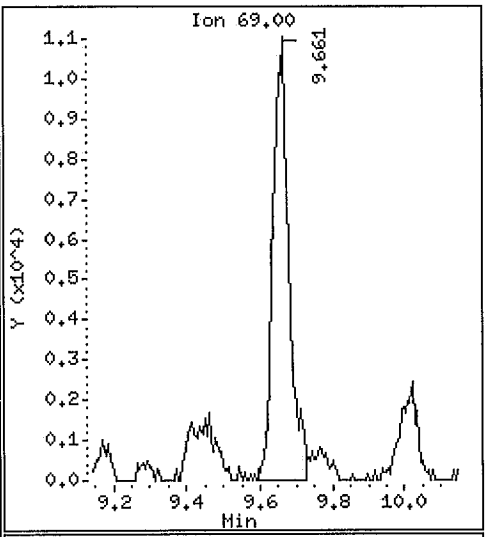
Column phase: Rtx-5

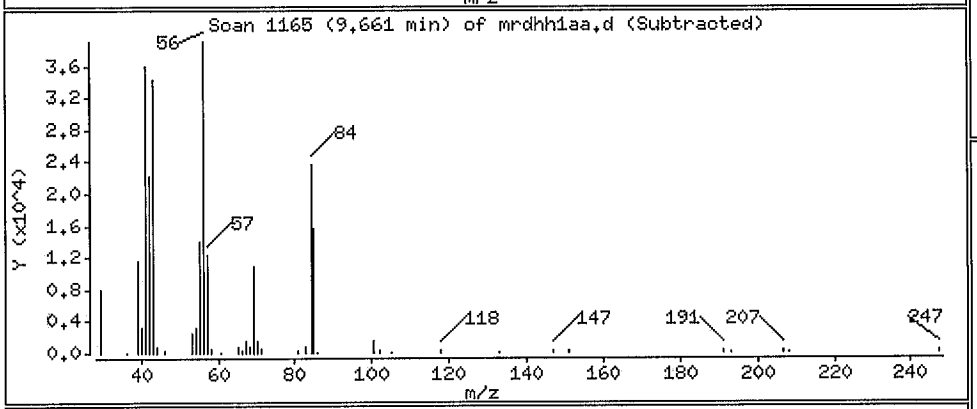
Column diameter: 0.32

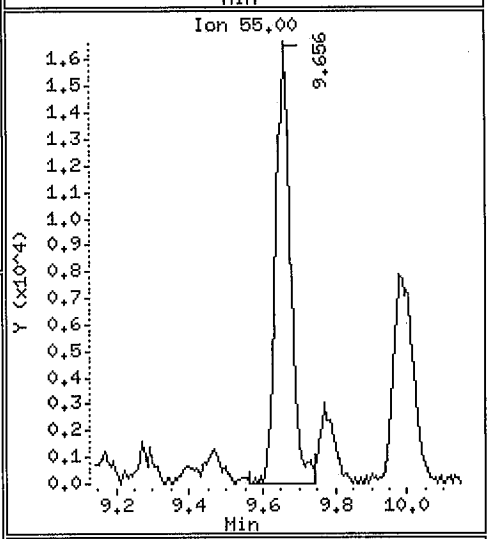
49 Cyclohexane

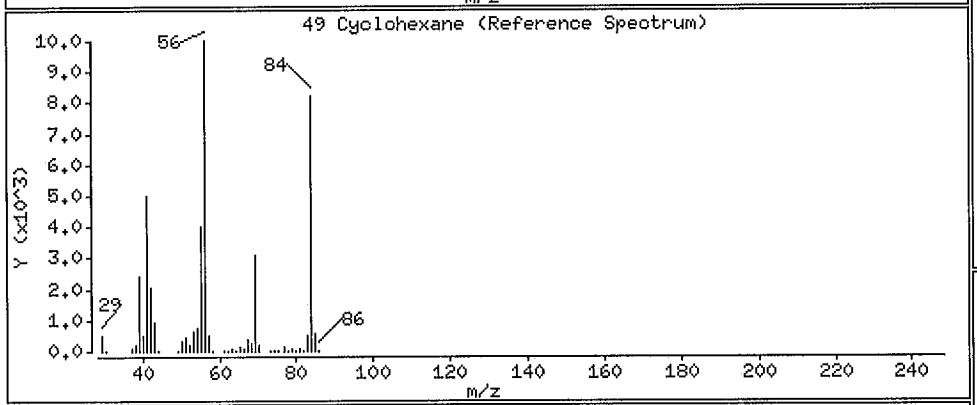
Concentration: 0.3323 ppb(v/v)

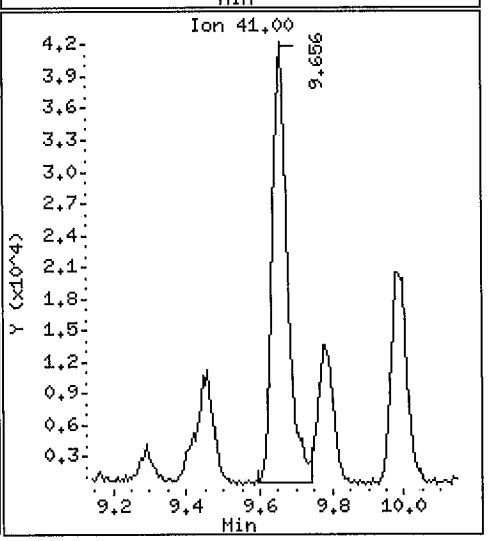


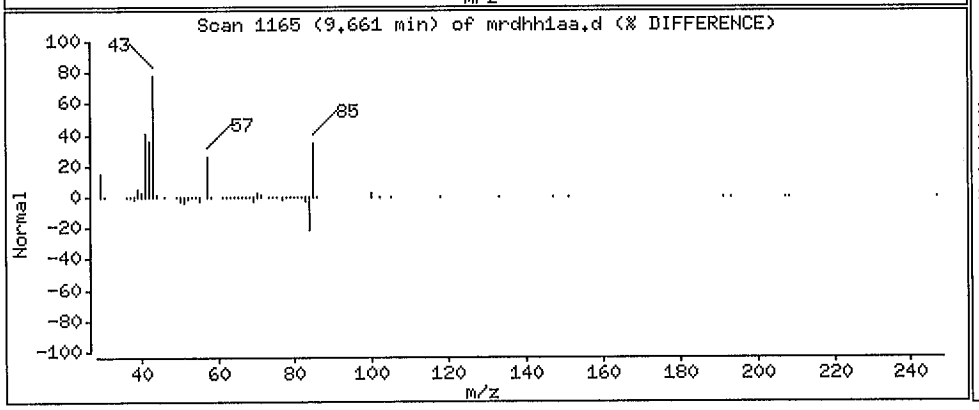












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

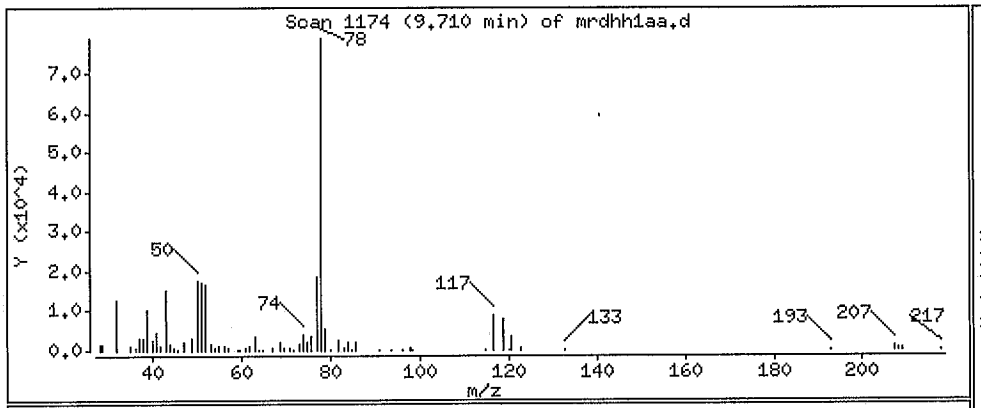
Operator: 7126

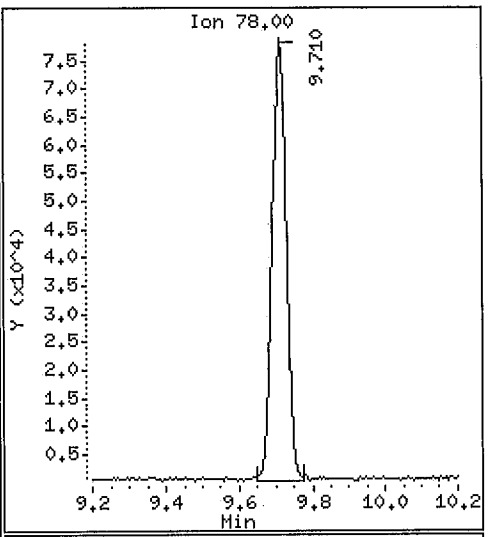
Column phase: Rtx-5

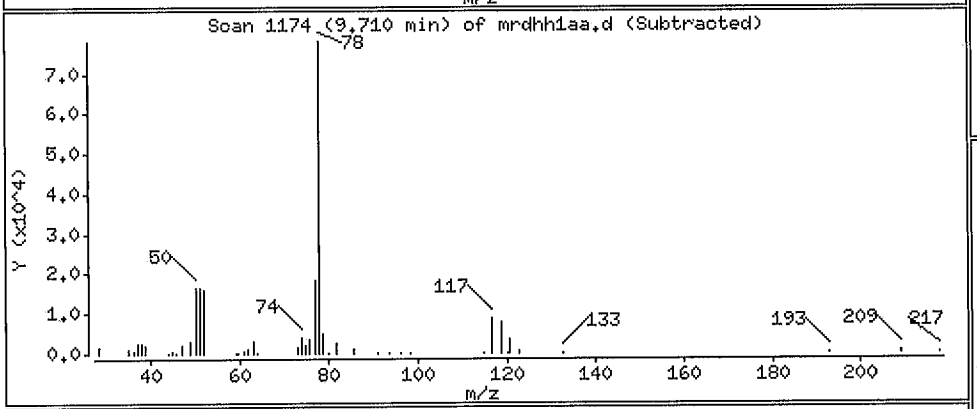
Column diameter: 0.32

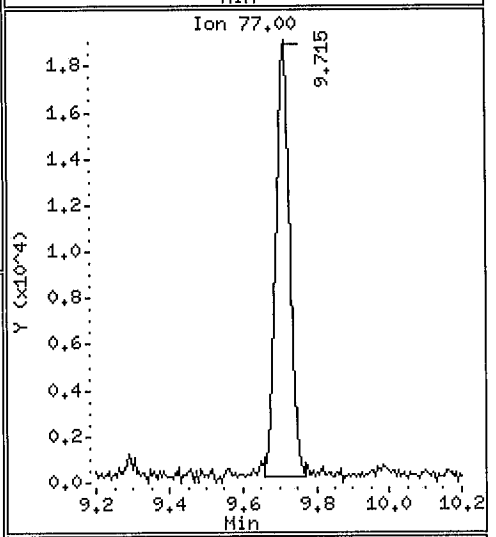
48 Benzene

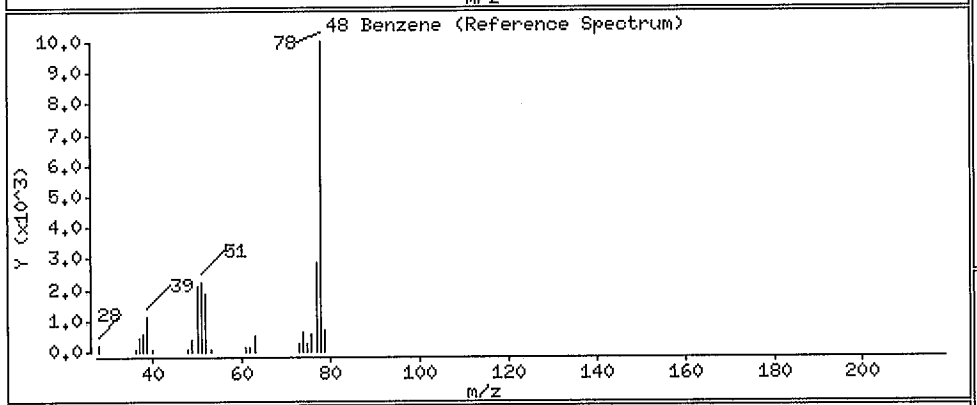
Concentration: 0.4062 ppb(v/v)

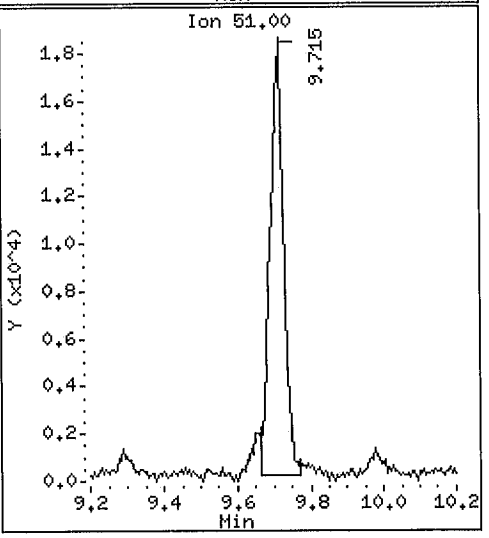


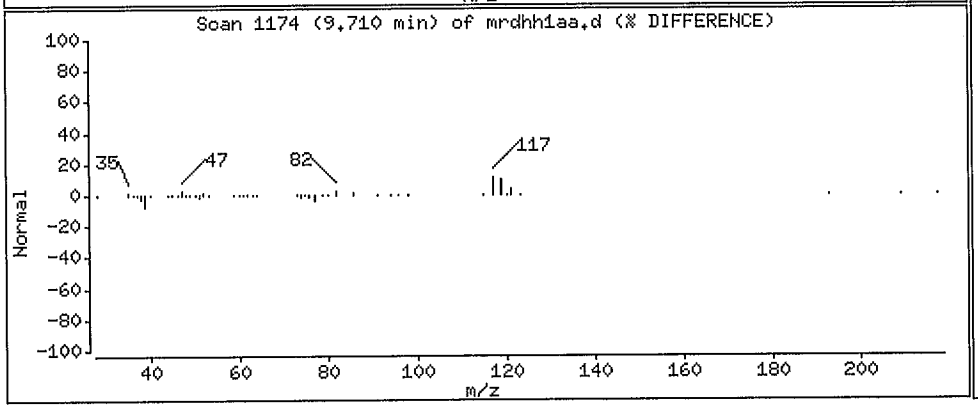












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

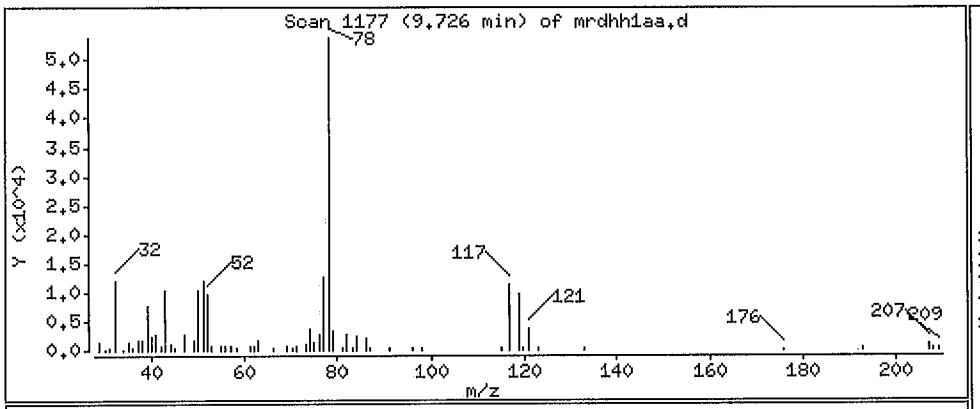
Operator: 7126

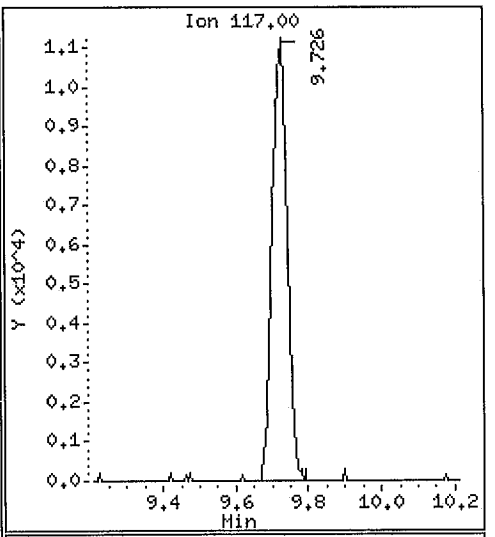
Column phase: Rtx-5

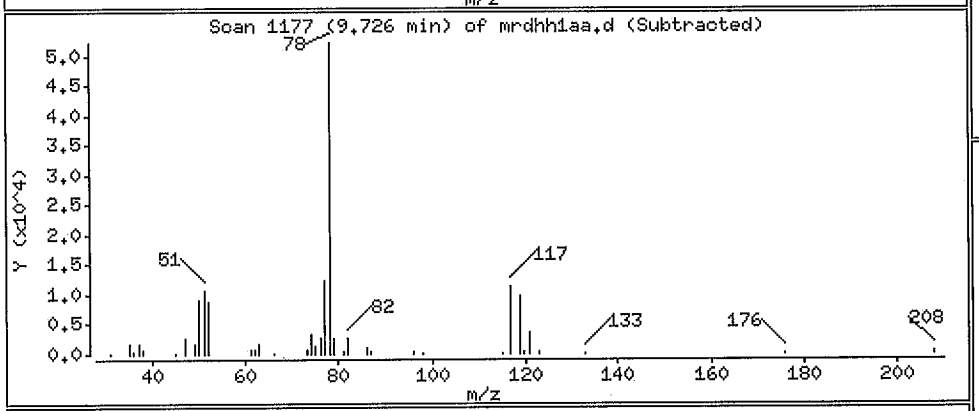
Column diameter: 0.32

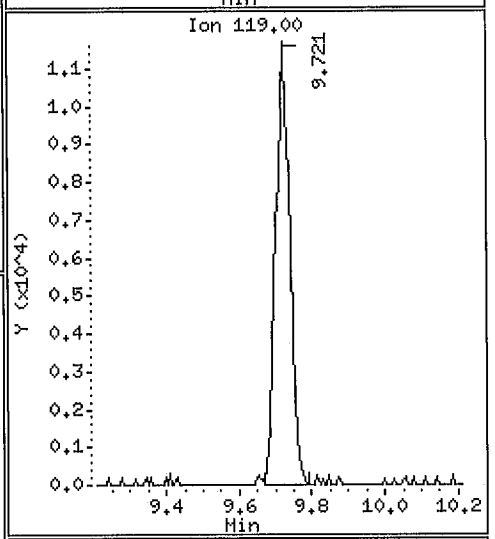
50 Carbon Tetrachloride

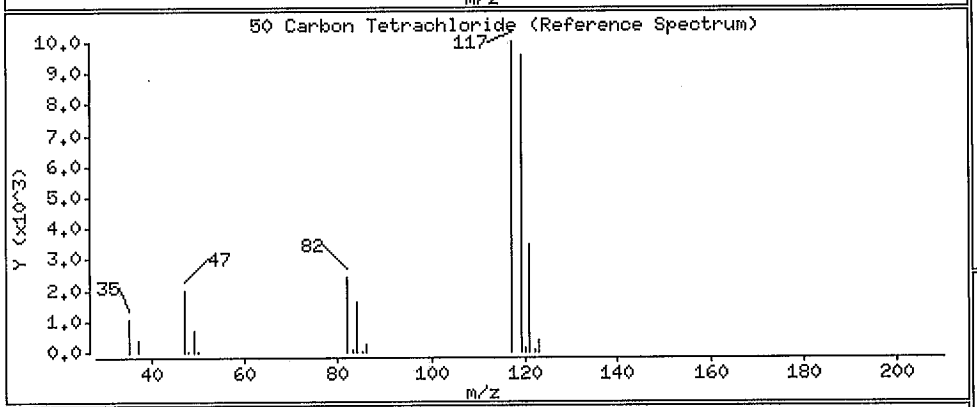
Concentration: 0.07121 ppb(v/v)

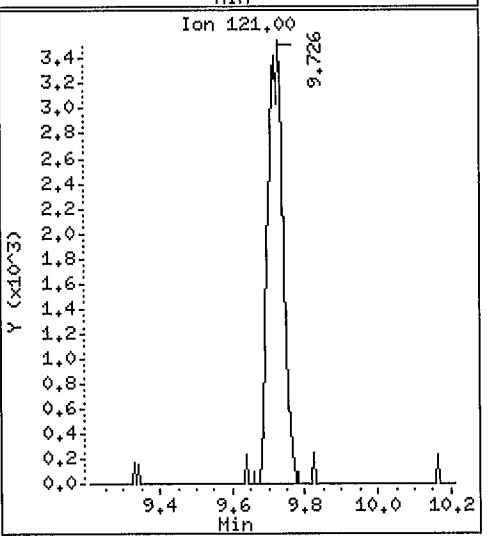


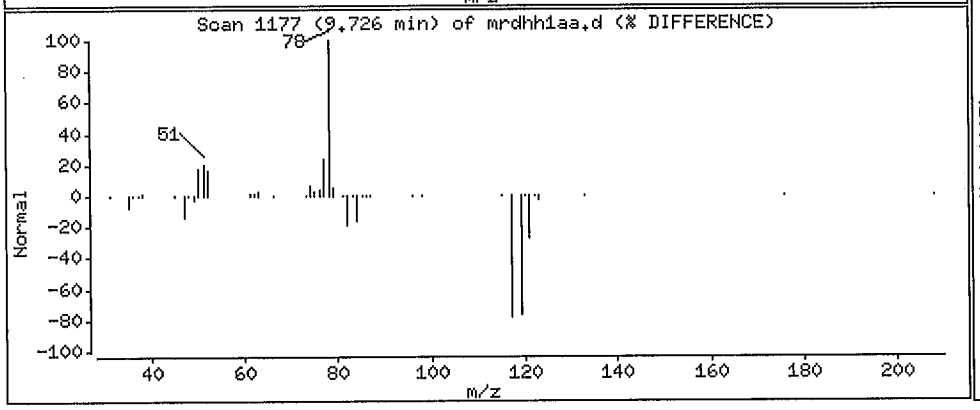












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

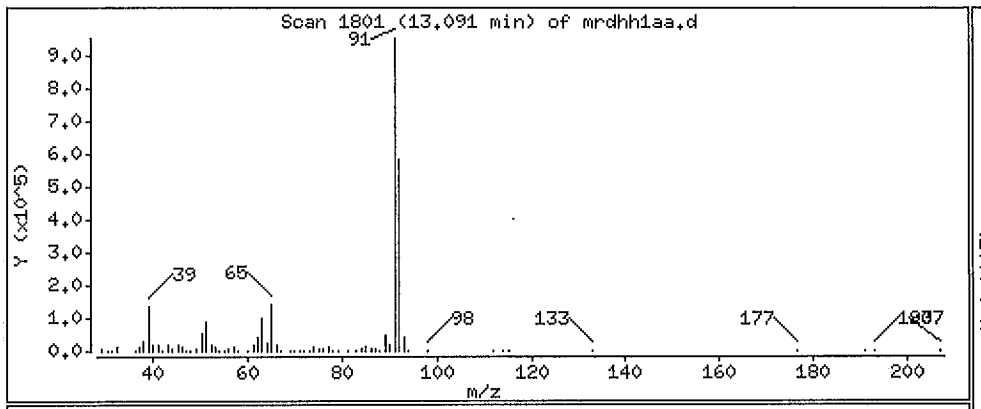
Operator: 7126

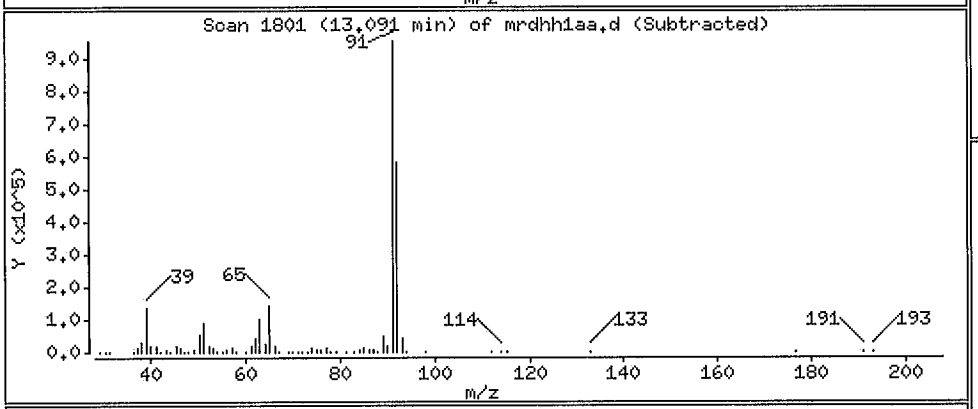
Column phase: Rtx-5

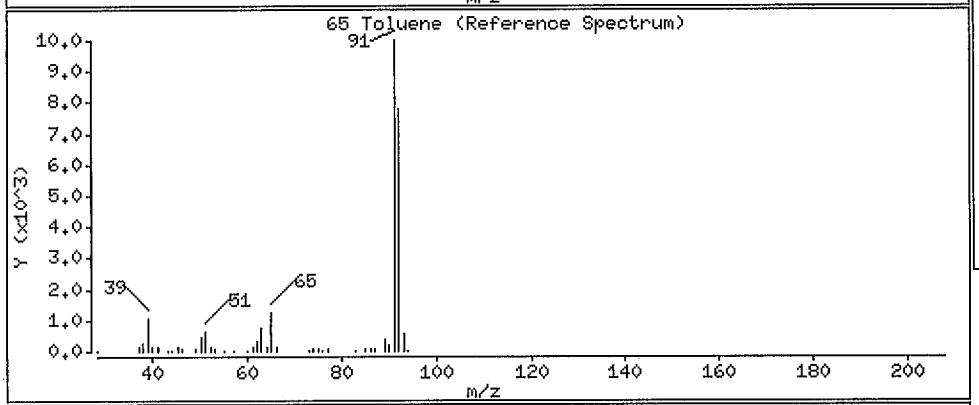
Column diameter: 0.32

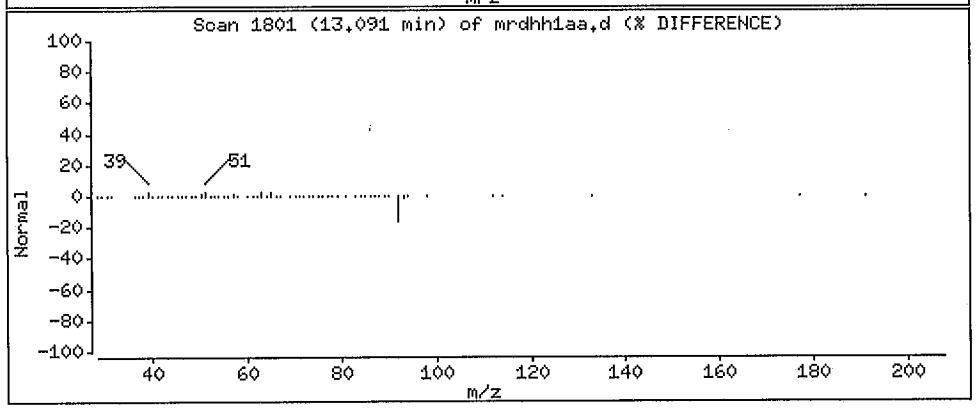
65 Toluene

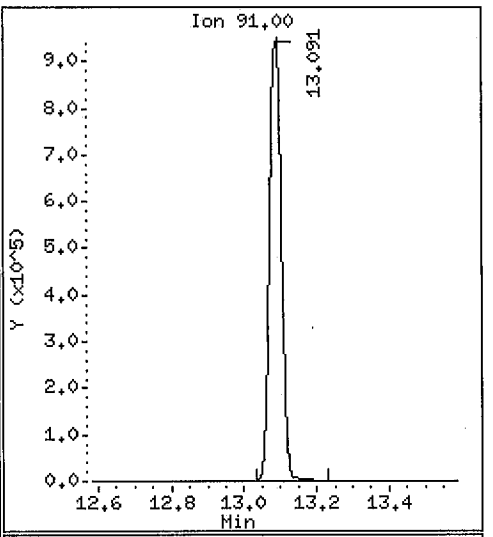
Concentration: 3.146 ppb(v/v)

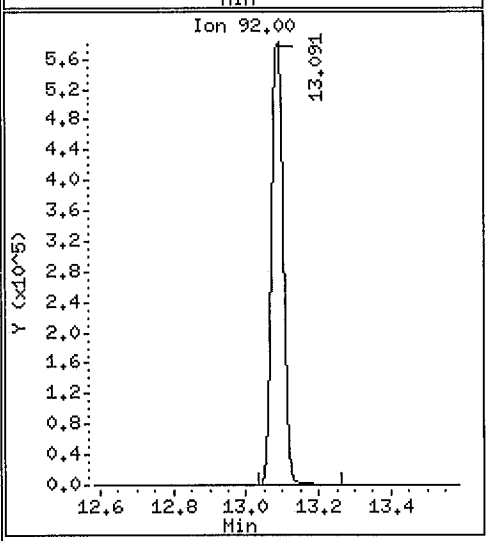












Data File: /var/chem/goms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

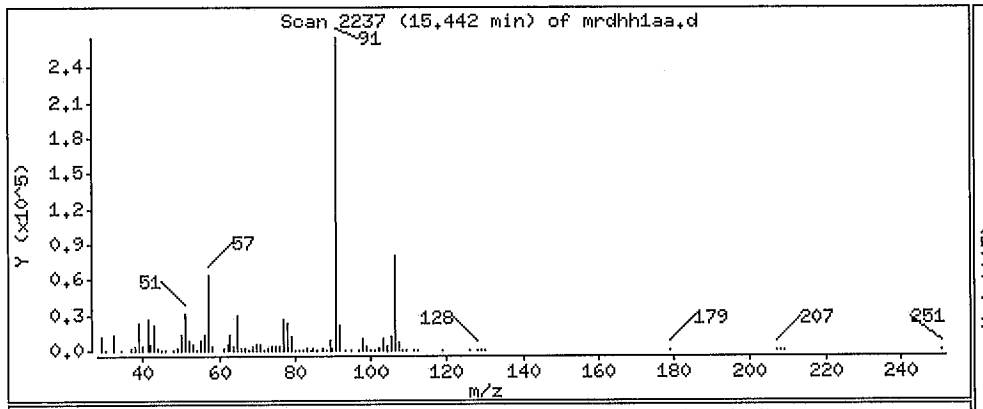
Operator: 7126

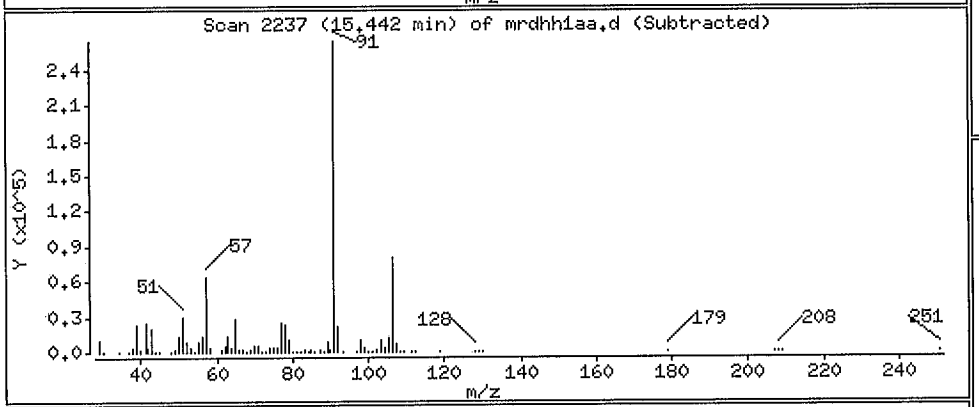
Column phase: Rtx-5

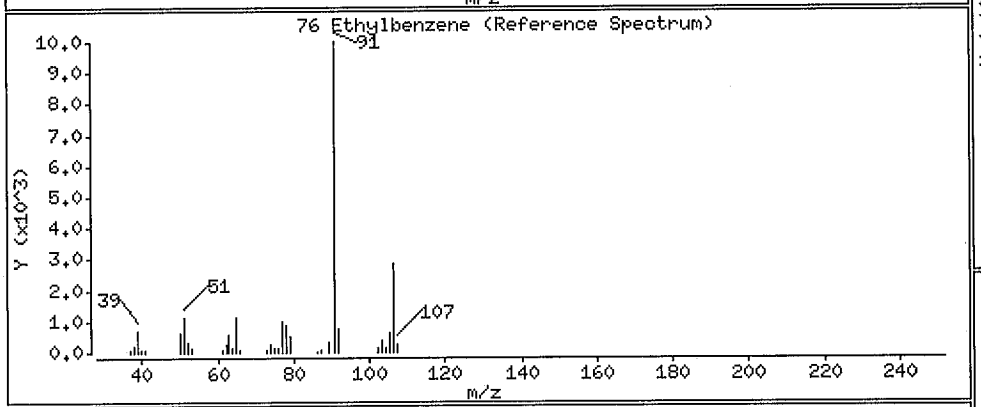
Column diameter: 0.32

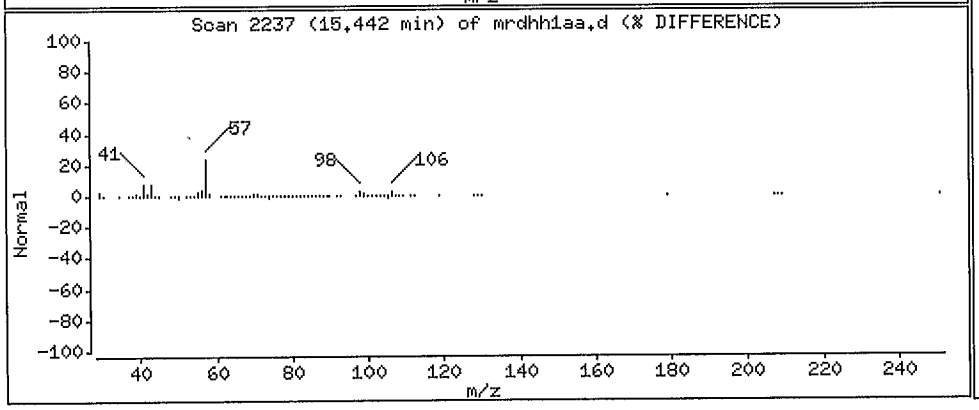
76 Ethylbenzene

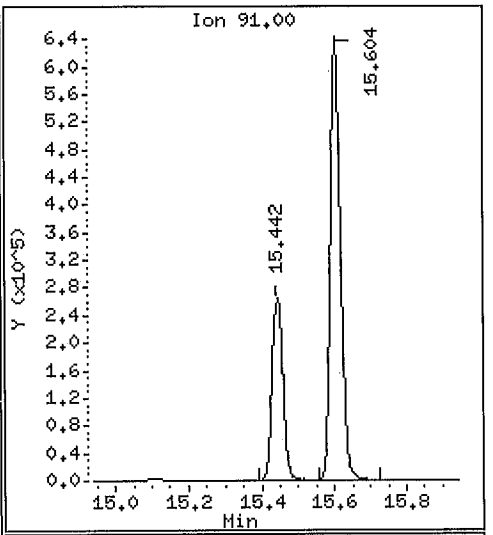
Concentration: 0.6314 ppb(v/v)

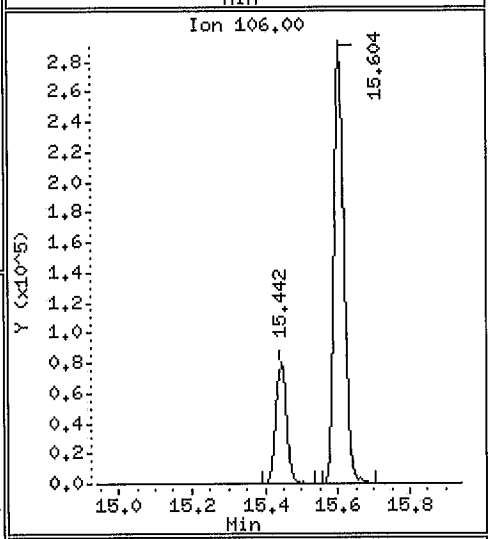


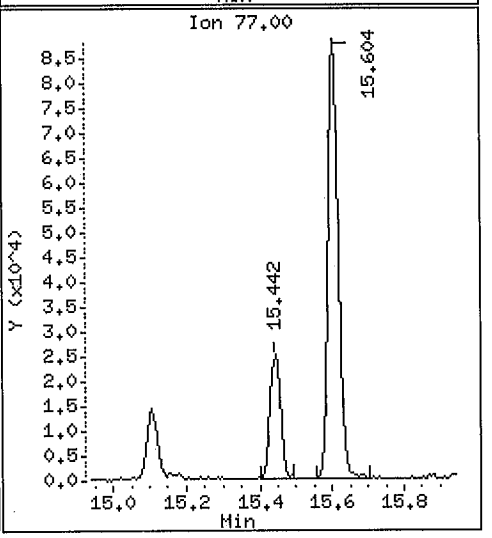












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

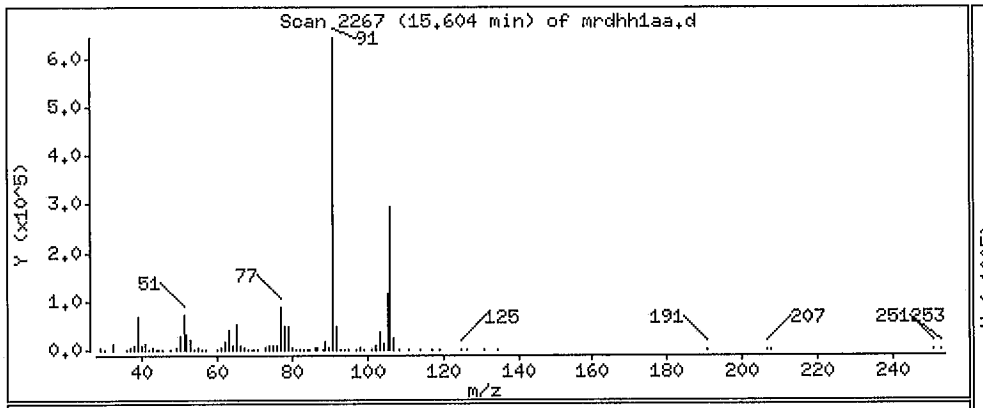
Operator: 7126

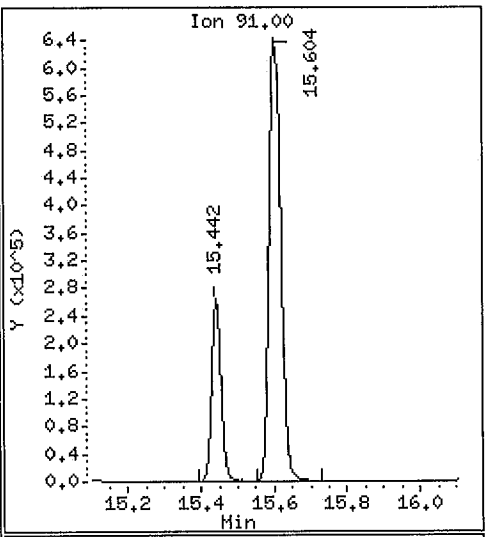
Column phase: Rtx-5

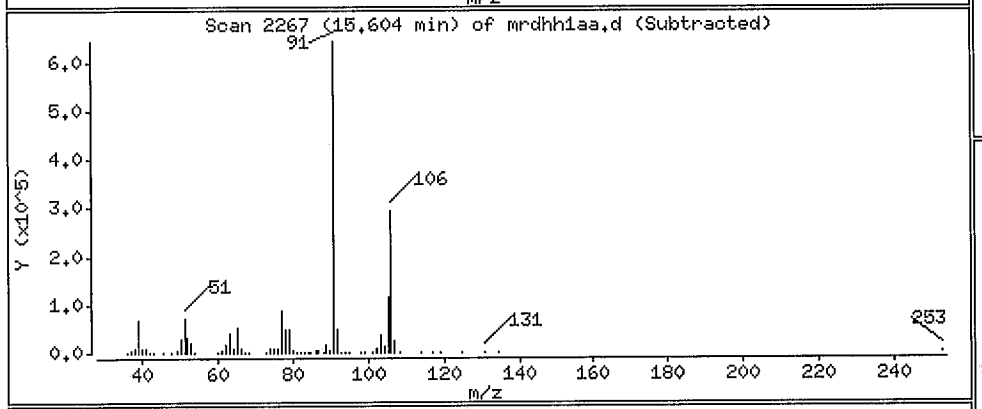
Column diameter: 0.32

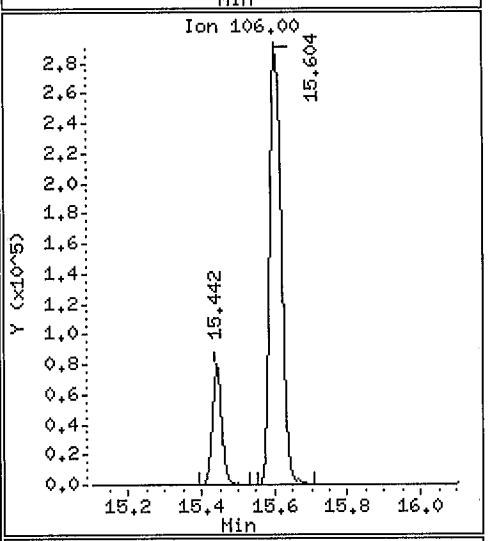
78 m&p-Xylene

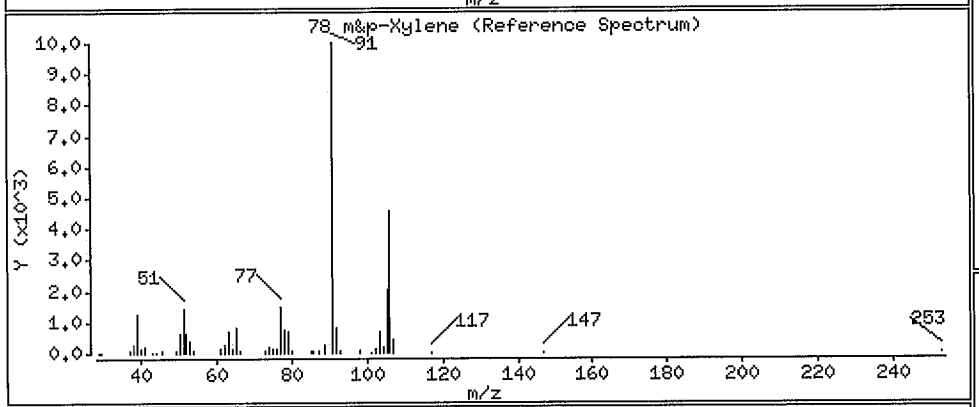
Concentration: 2.144 ppb(v/v)

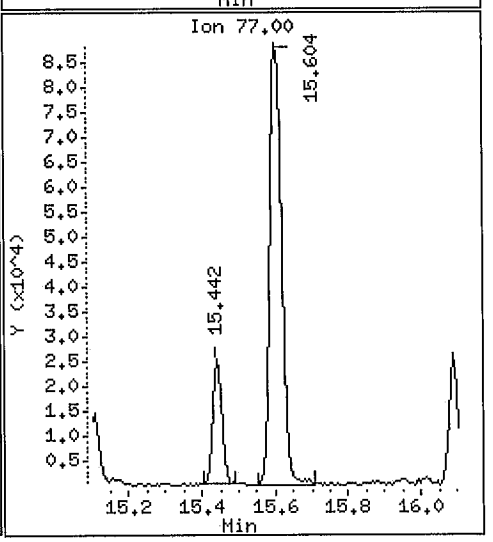


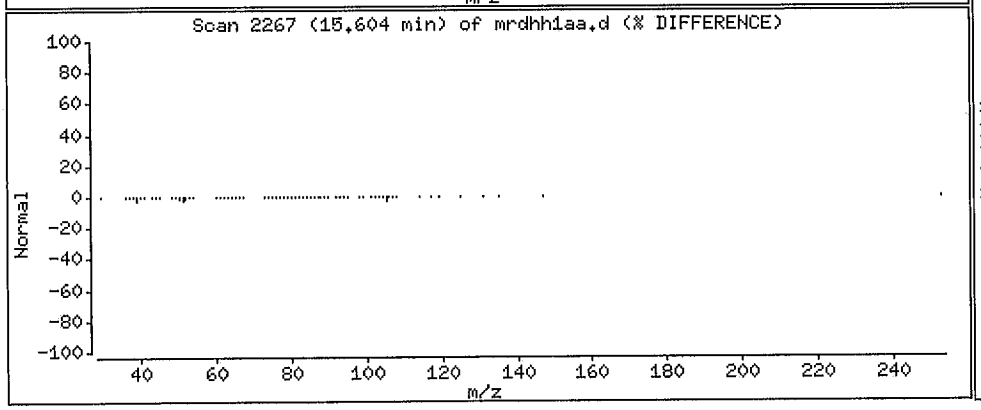












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

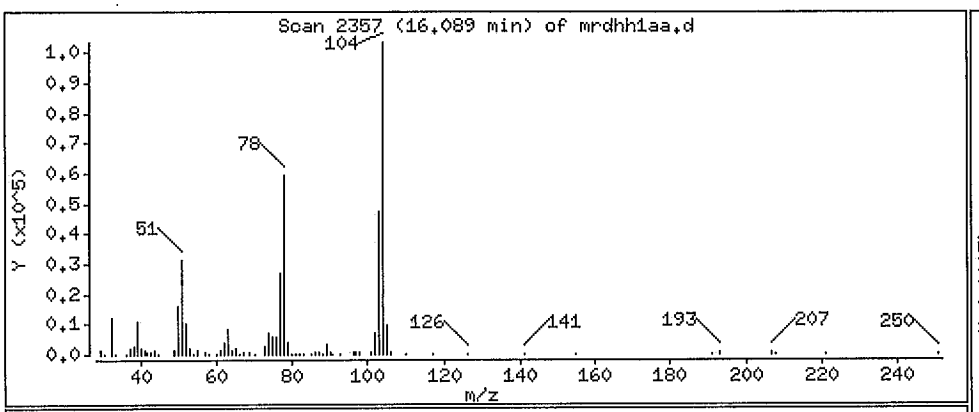
Operator: 7126

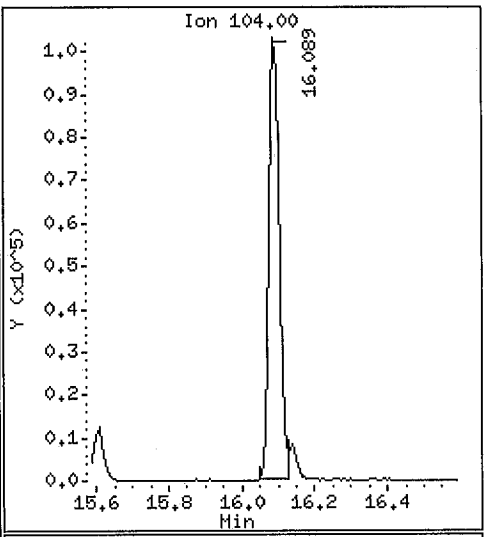
Column phase: Rtx-5

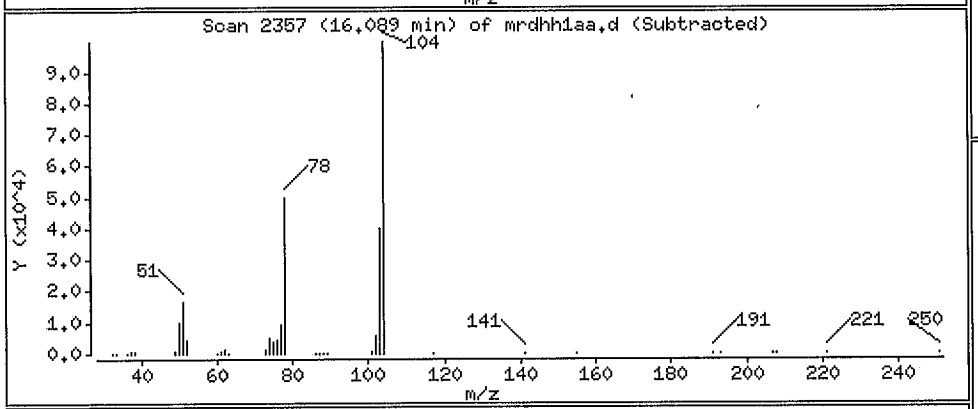
Column diameter: 0.32

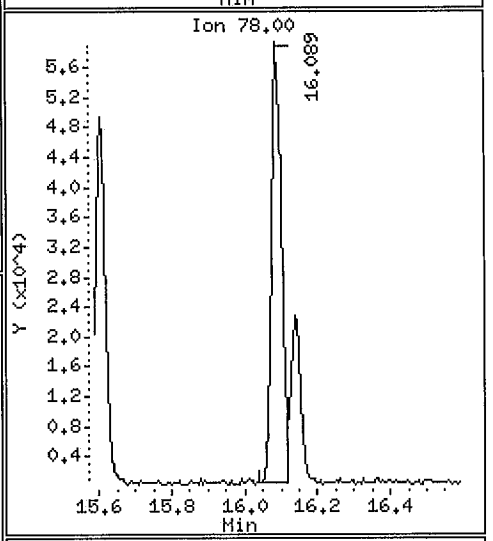
81 Styrene

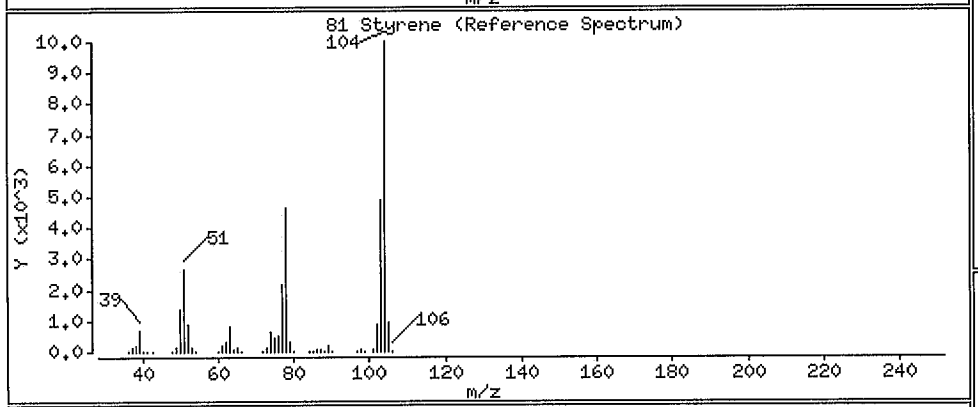
Concentration: 0.4159 ppb(v/v)

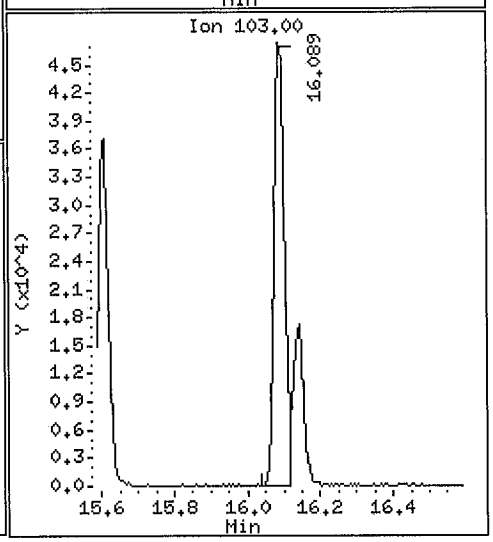


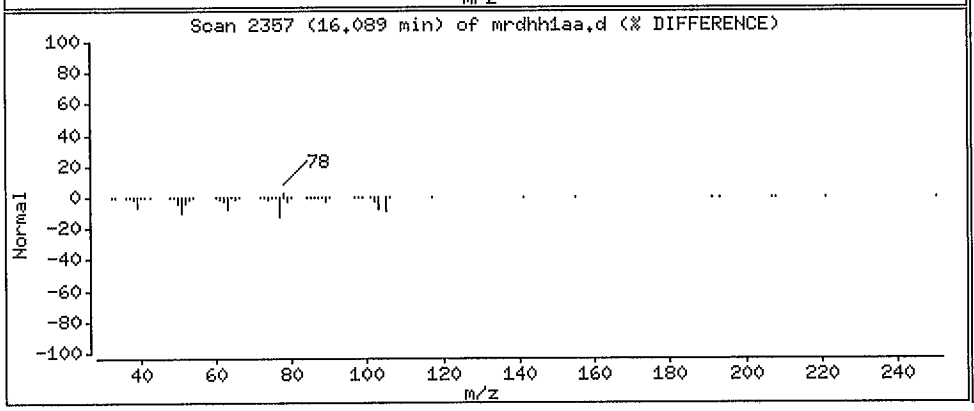












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

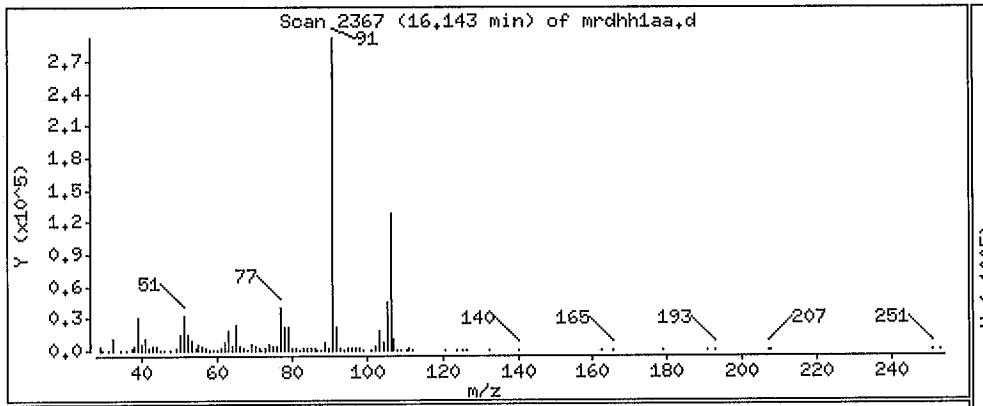
Operator: 7126

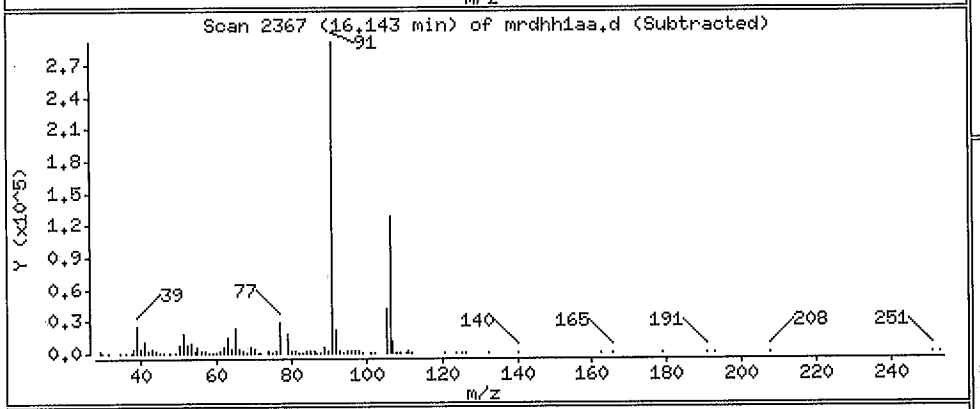
Column phase: Rtx-5

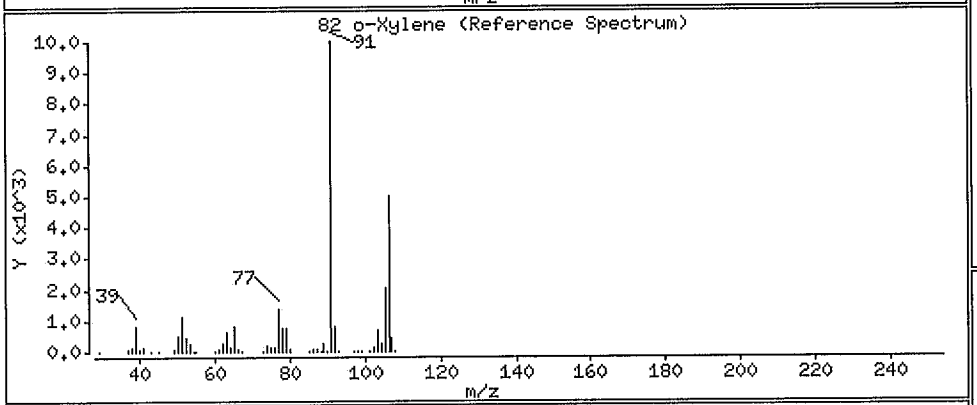
Column diameter: 0.32

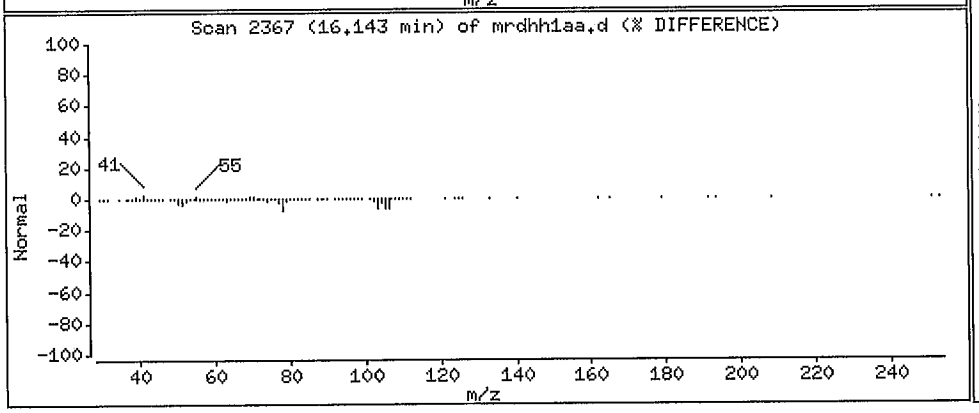
82 o-Xylene

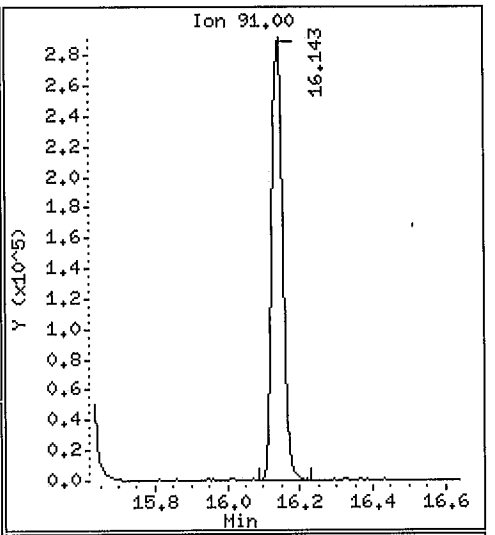
Concentration: 0.8757 ppb(v/v)

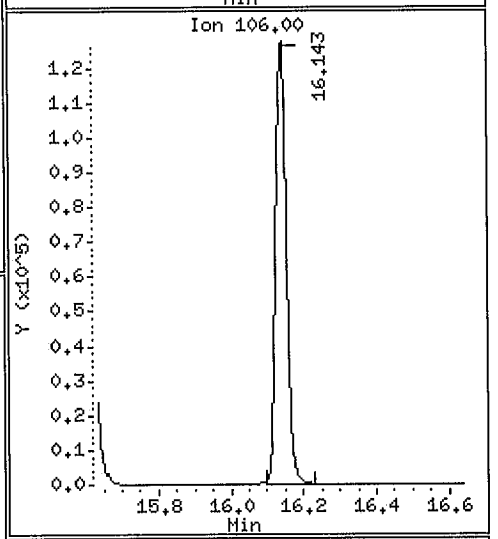


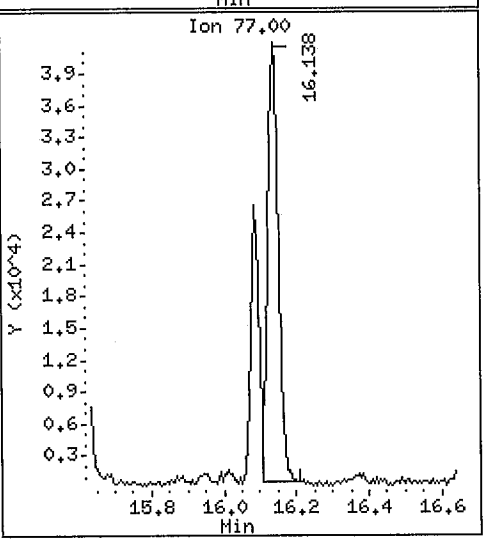












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

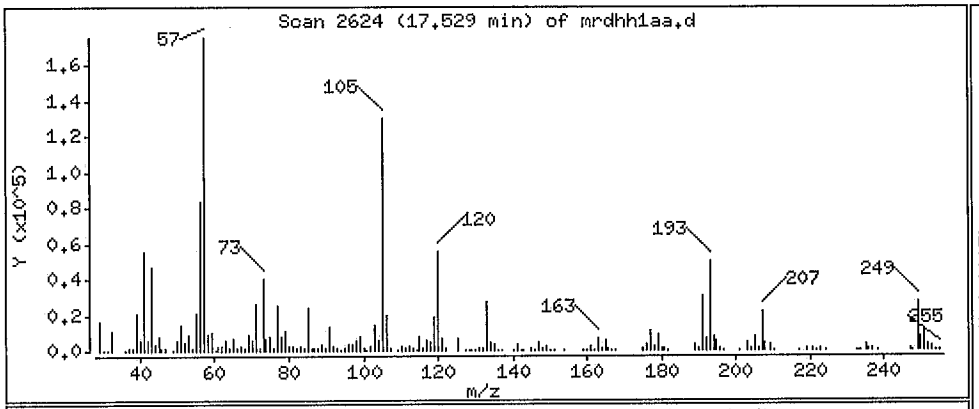
Operator: 7126

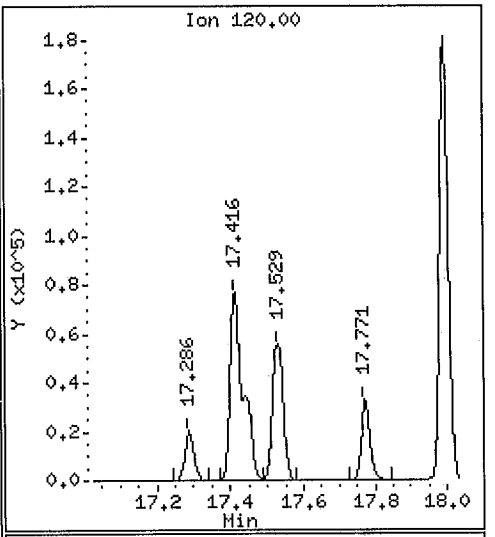
Column phase: Rtx-5

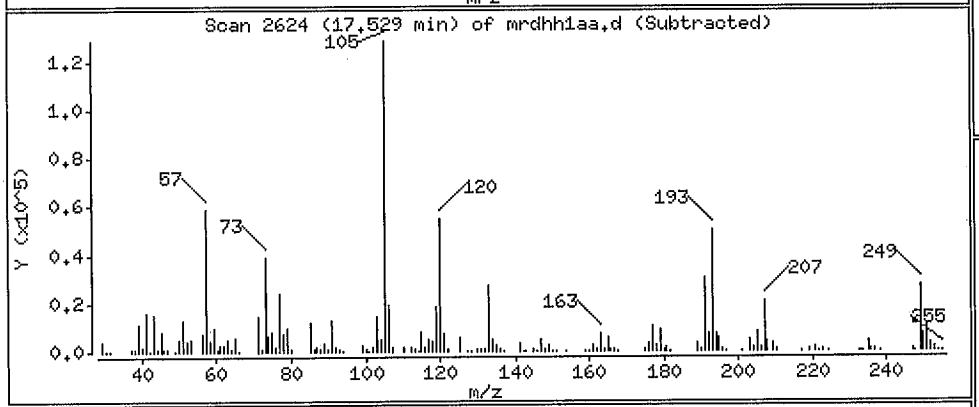
Column diameter: 0.32

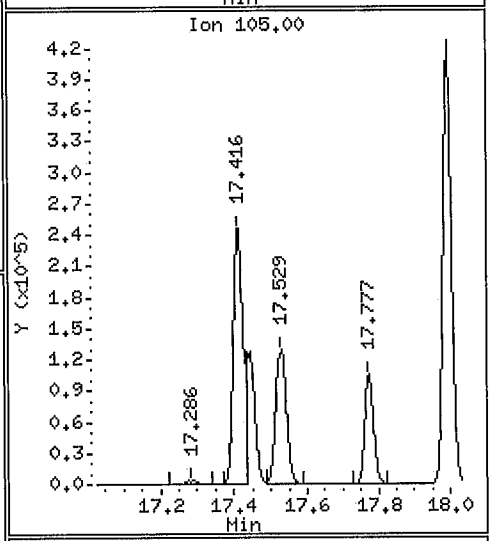
90 1,3,5-Trimethylbenzene

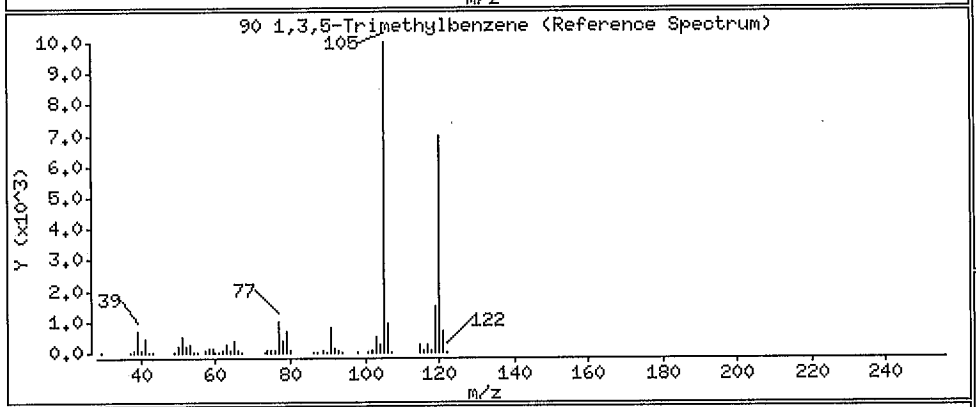
Concentration: 0.2577 ppb(v/v)

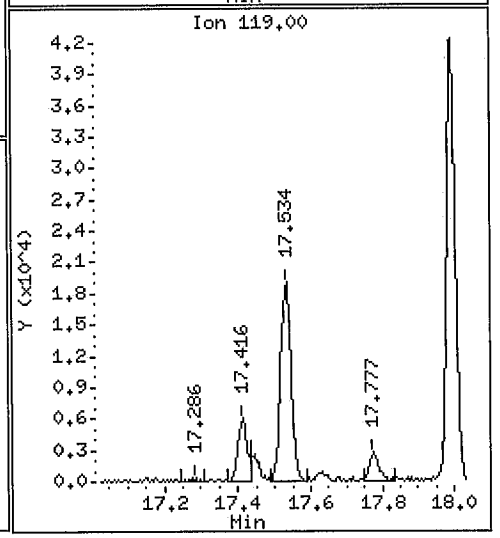


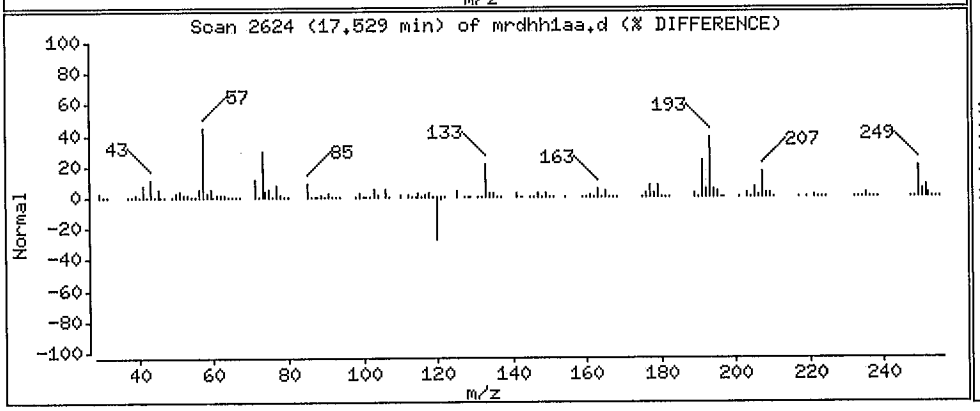












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

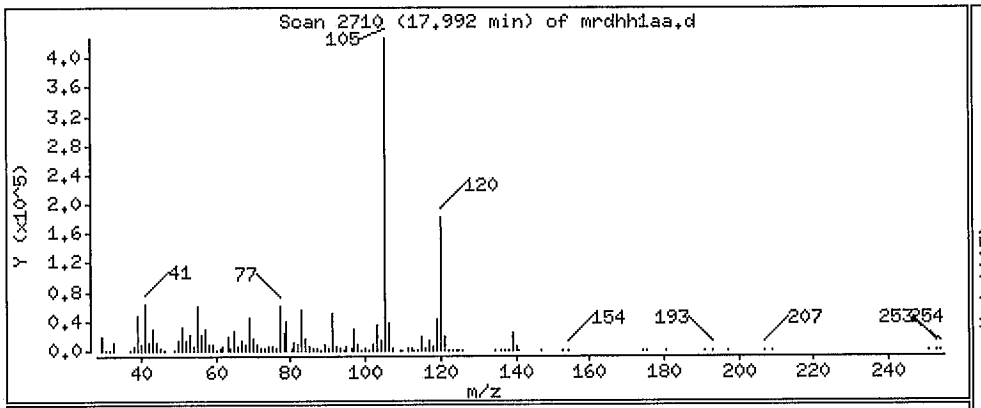
Operator: 7126

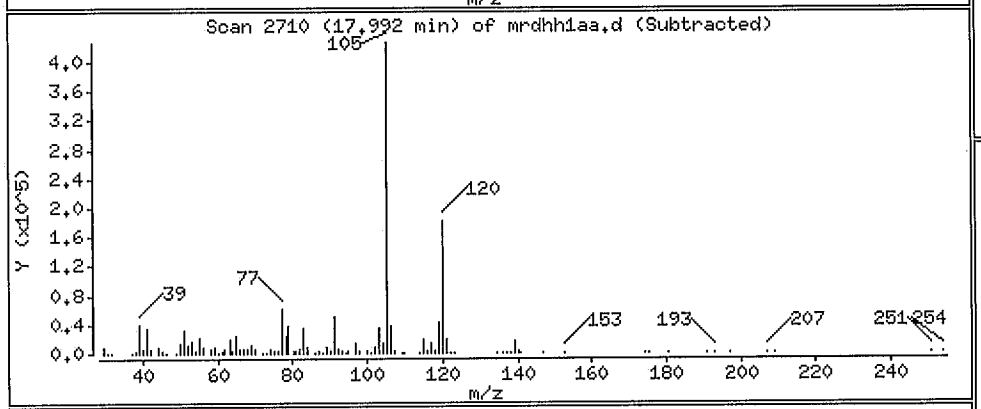
Column phase: Rtx-5

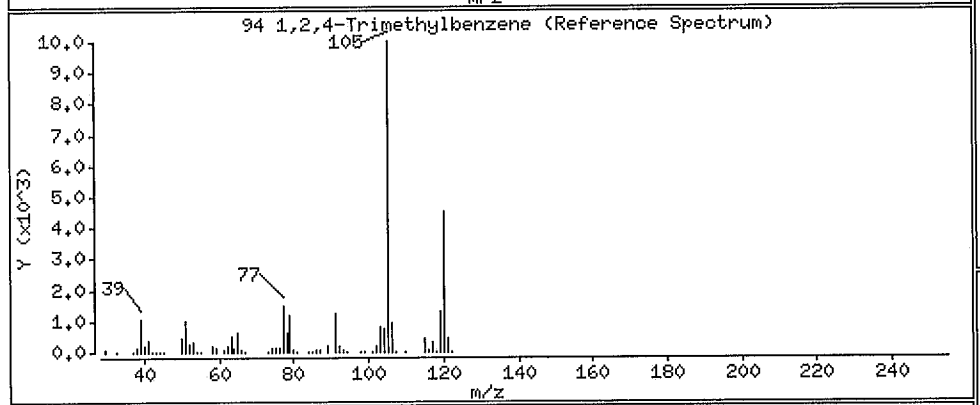
Column diameter: 0.32

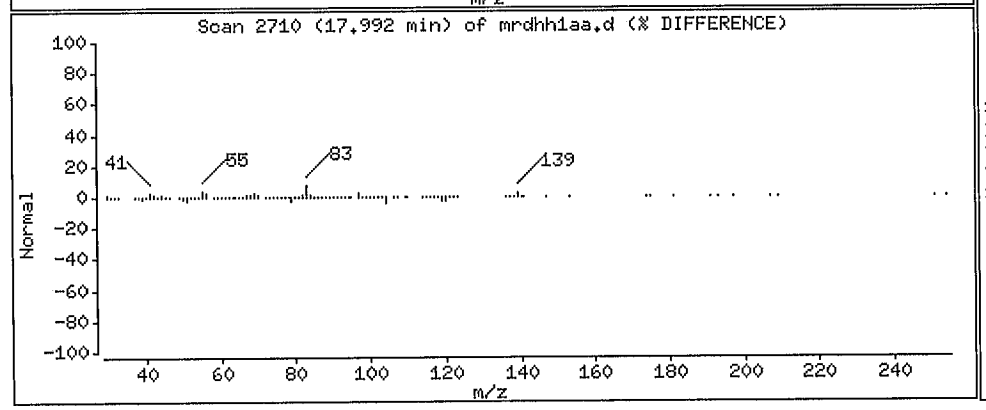
94 1,2,4-Trimethylbenzene

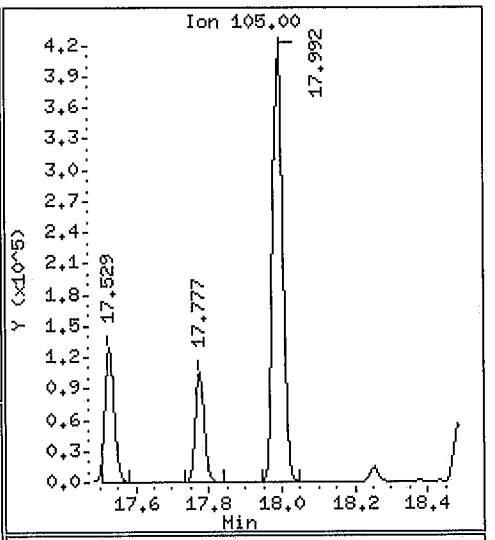
Concentration: 1.006 ppb(v/v)

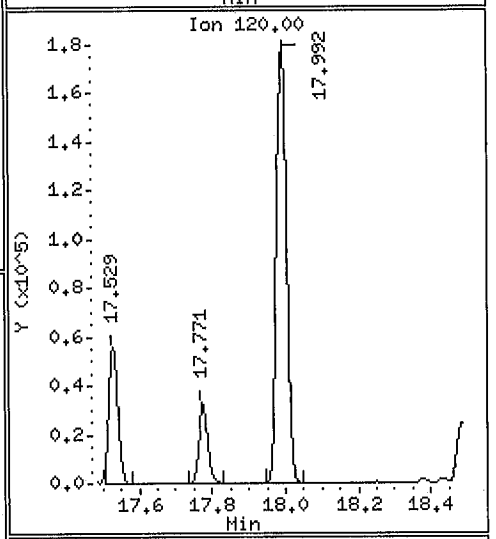


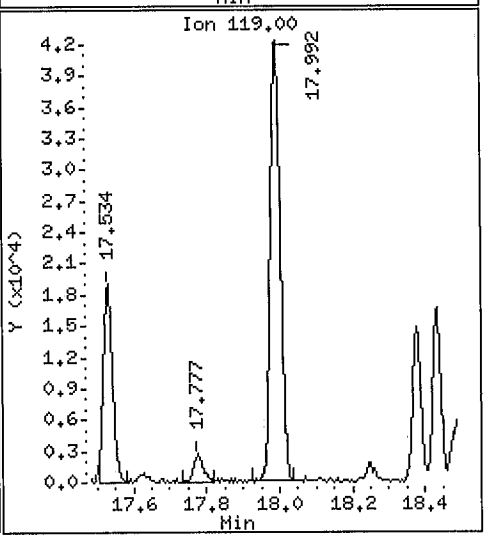












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhh1aa.d

Date : 13-MAR-2012 16:14

Client ID: HOUSE # 1 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

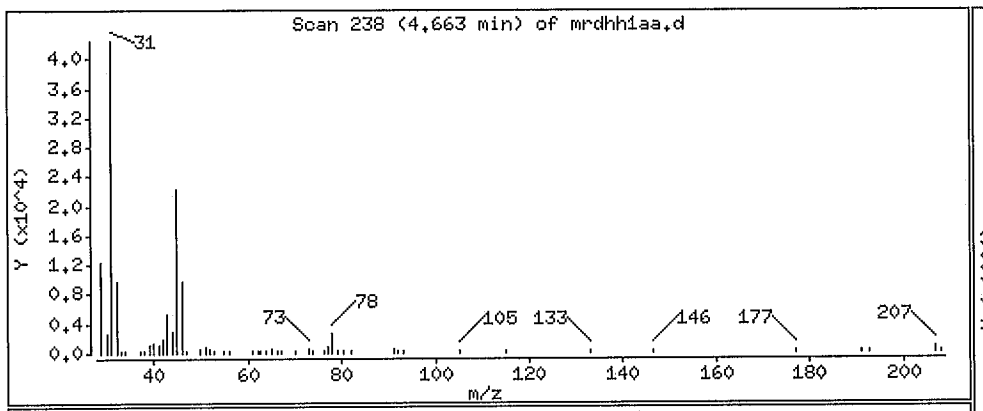
Operator: 7126

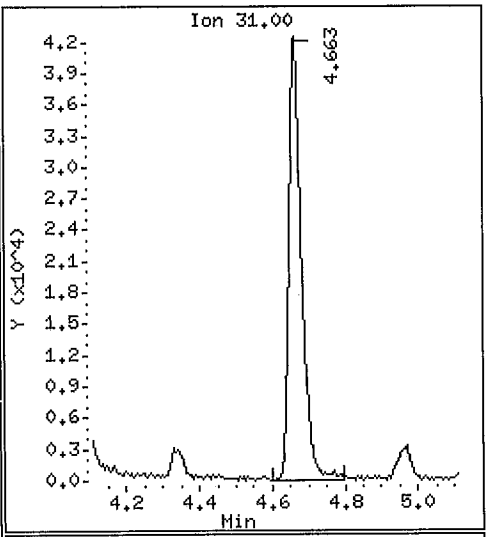
Column phase: Rtx-5

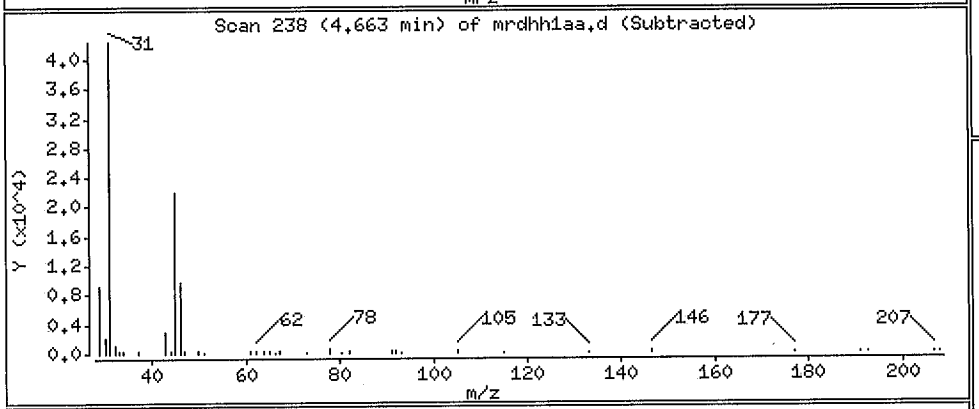
Column diameter: 0.32

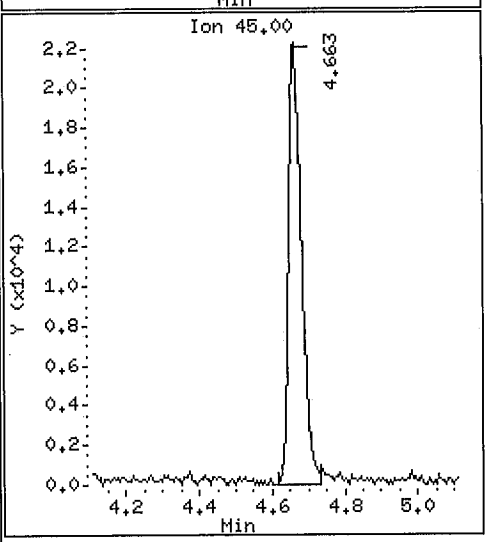
17 ^ ethanol

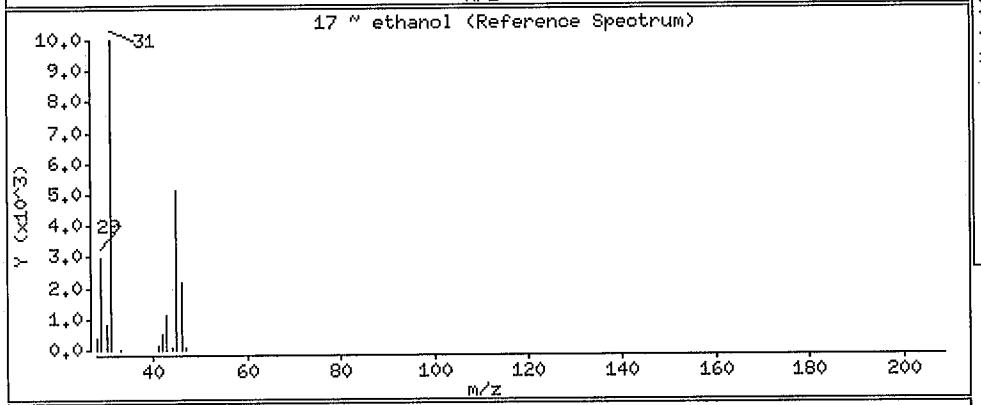
Concentration: 2.219 ppb(v/v)

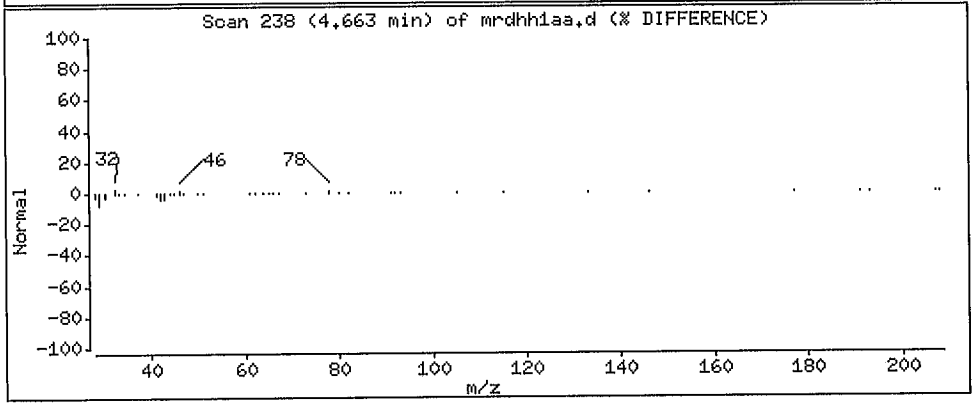












New York State D.E.C.

Client Sample ID: HOUSE # 1 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 002 **Work Order #** MRDHJ1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/13/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	ND	0.32	ND	0.94
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.20**	**0.080**	**0.62**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.066**	**0.040**	**0.41**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	**0.63**	**0.20**	**1.3**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.62**	**0.080**	**3.1**	**0.40**
Ethanol	**23**	**0.80**	**43**	**1.5**
Ethylbenzene	ND	0.080	ND	0.35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	ND	0.20	ND	0.70
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 1 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 002 **Work Order #** MRDHJ1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.62**	**0.080**	**2.4**	**0.30**
m-Xylene & p-Xylene	**0.16**	**0.080**	**0.68**	**0.35**
o-Xylene	ND	0.080	ND	0.35
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.20**	**0.080**	**1.1**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	109	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d
Lab Smp Id: MRDHJ1AA Client Smp ID: HOUSE # 1 INDOOR
Inj Date : 13-MAR-2012 17:17
Operator : 7126 Inst ID: mg.i
Smp Info : ,,0,,,
Misc Info : G031312,TO15,nysdec.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 14-Mar-2012 13:23 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

3/16/12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.178	8.168	(1.000)	648186	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.292	10.281	(1.000)	3305286	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.108	15.102	(1.000)	3099626	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.779	16.779	(1.111)	2443583	4.35364	4.354
	7 Dichlorodifluoromethane	85	3.740	3.724	(0.457)	385305	0.61956	0.6196
	8 Chloromethane	52	3.897	3.875	(0.476)	37946	0.63098	0.6310
	20 Trichlorofluoromethane	101	4.959	4.943	(0.606)	124059	0.19875	0.1988
	39 2-Butanone	72	7.596	7.553	(0.929)	24167	0.27519	0.2752
	48 Benzene	78	9.710	9.699	(0.943)	121416	0.19542	0.1954
	50 Carbon Tetrachloride	117	9.715	9.710	(0.944)	35138	0.06565	0.06565
	65 Toluene	91	13.091	13.085	(0.866)	471554	0.62448	0.6245
	78 m&p-Xylene	91	15.609	15.604	(1.033)	115740	0.15614	0.1561
	17 ~ ethanol	31	4.652	4.609	(0.569)	1382317	22.9759	22.98

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: mrdhj1aa.d
Lab Smp Id: MRDHJ1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: HOUSE # 1 INDOOR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	648186	15.51
2 1,4-Difluorobenze	2909107	1730919	4087295	3305286	13.62
3 Chlorobenzene-d5	2830968	1684426	3977510	3099626	9.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.18	0.13
2 1,4-Difluorobenze	10.28	9.95	10.61	10.29	0.10
3 Chlorobenzene-d5	15.10	14.77	15.43	15.11	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

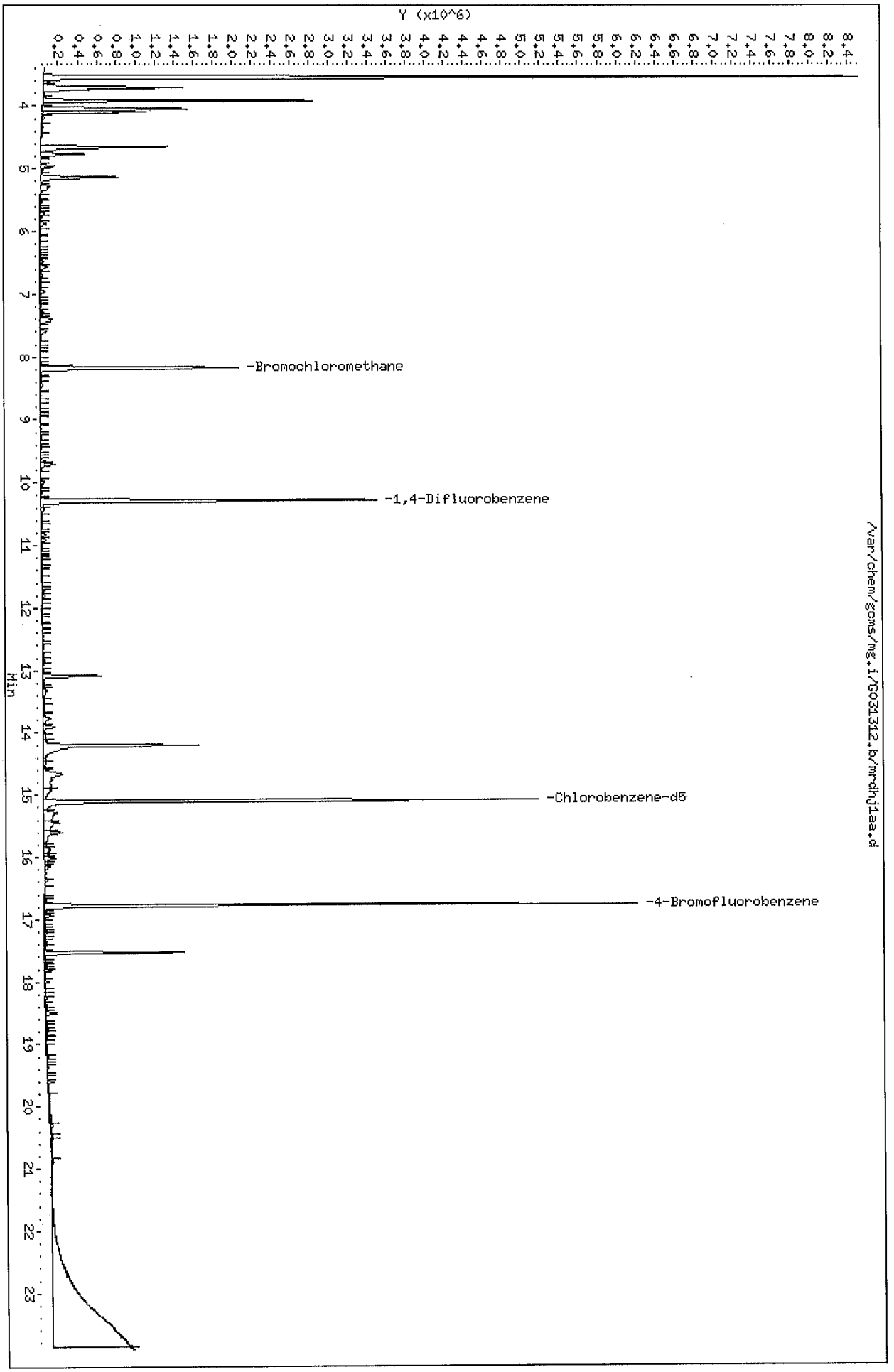
Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C10-MAR-2012 00:00 Client SDG: H2C130401
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MRDHJ1AA Client Smp ID: HOUSE # 1 INDOOR
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.354	108.84	70-130


Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d
Date : 13-MAR-2012 17:17
Client ID: HOUSE # 1 INDOOR
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: mg.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene
/var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d
Min

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d

Date : 13-MAR-2012 17:17

Client ID: HOUSE # 1 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

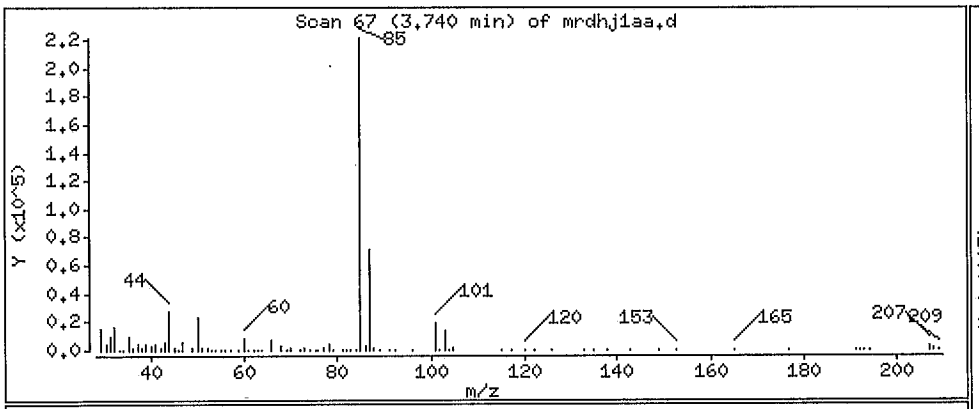
Operator: 7126

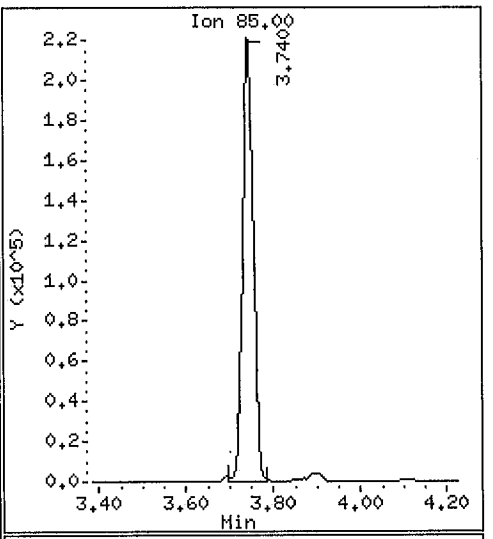
Column phase: Rtx-5

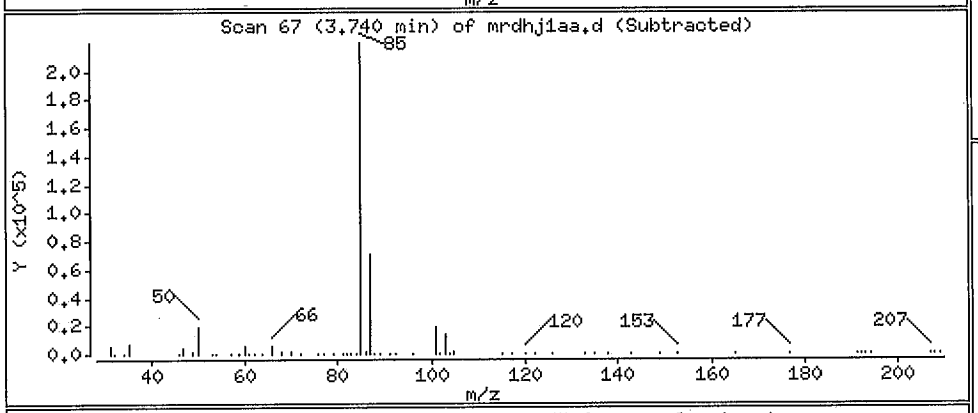
Column diameter: 0.32

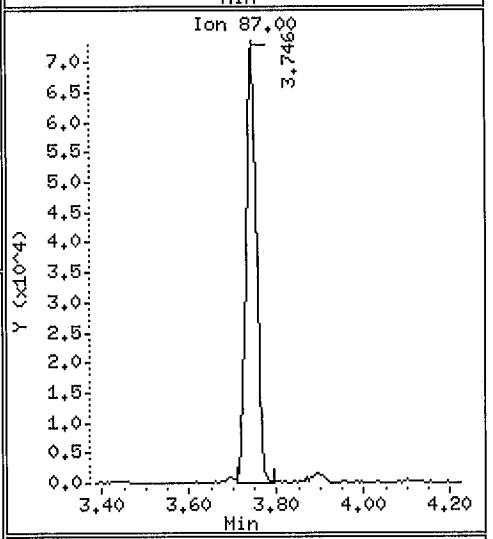
7 Dichlorodifluoromethane

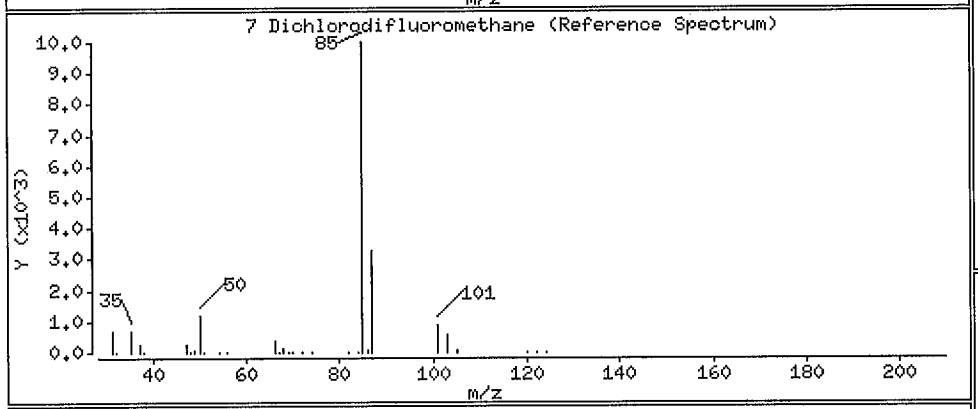
Concentration: 0.6196 ppb(v/v)

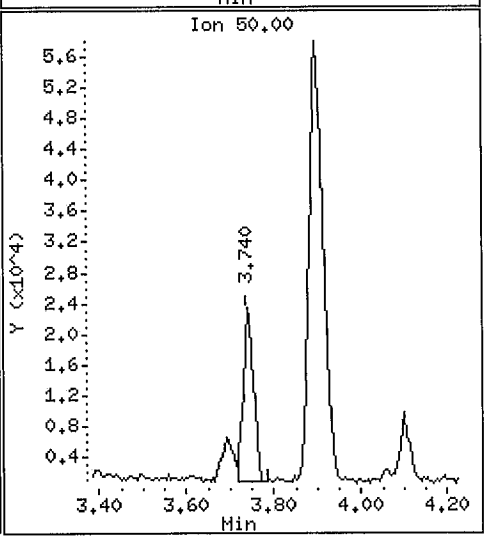


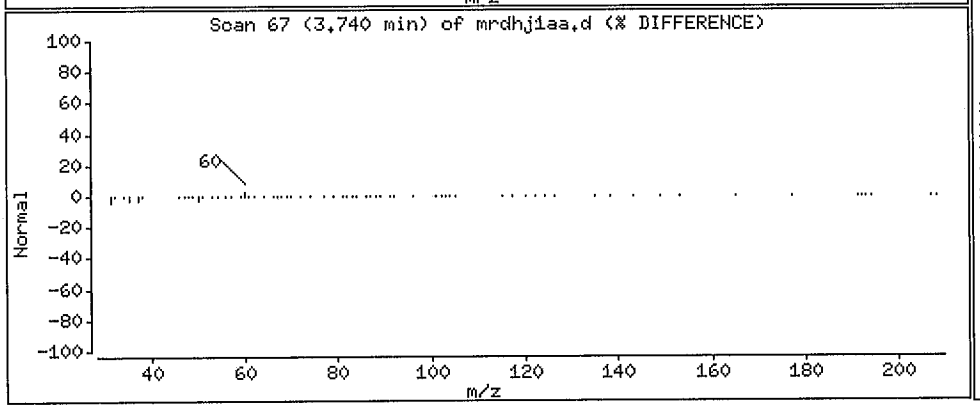












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d

Date : 13-MAR-2012 17:17

Client ID: HOUSE # 1 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

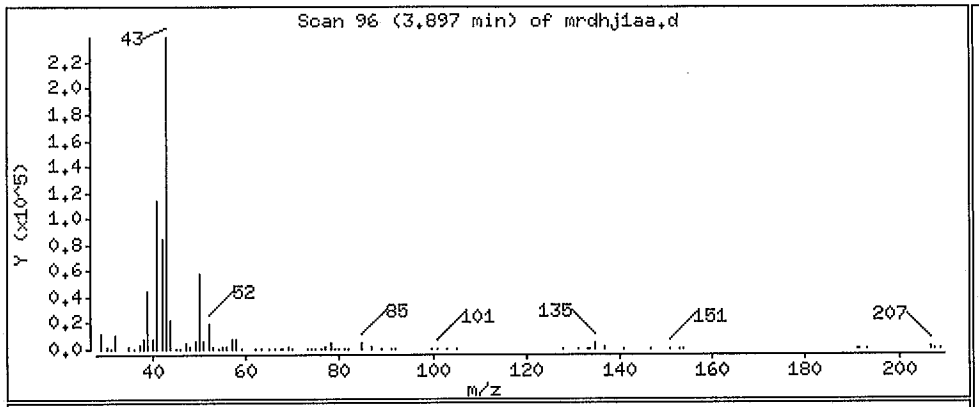
Operator: 7126

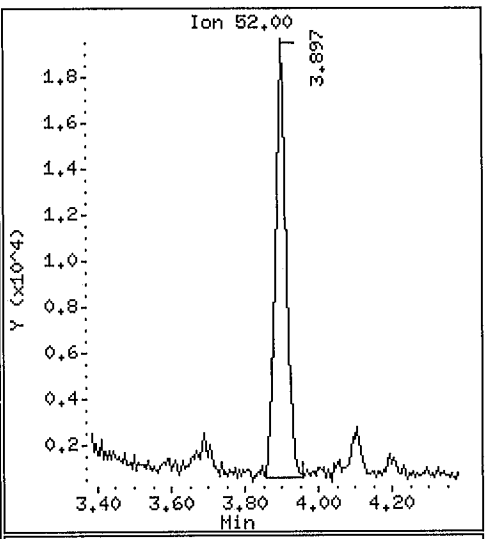
Column phase: Rtx-5

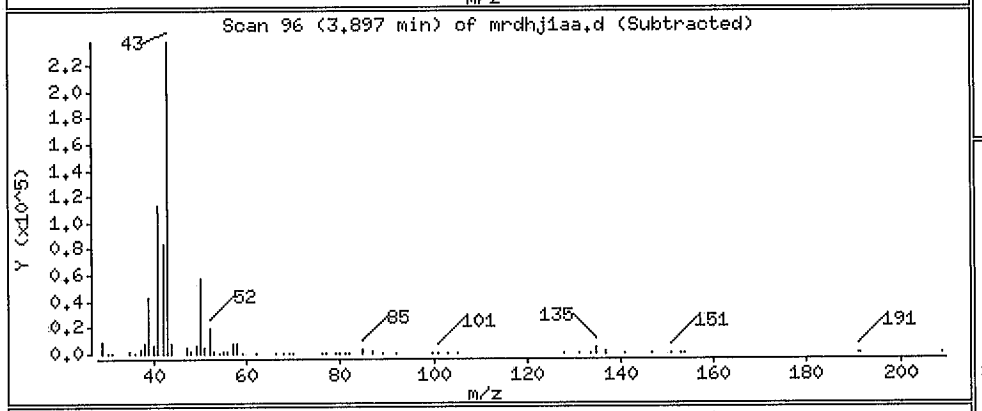
Column diameter: 0.32

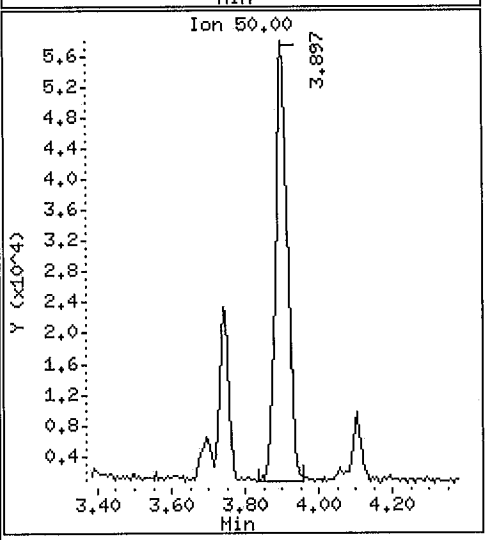
8 Chloromethane

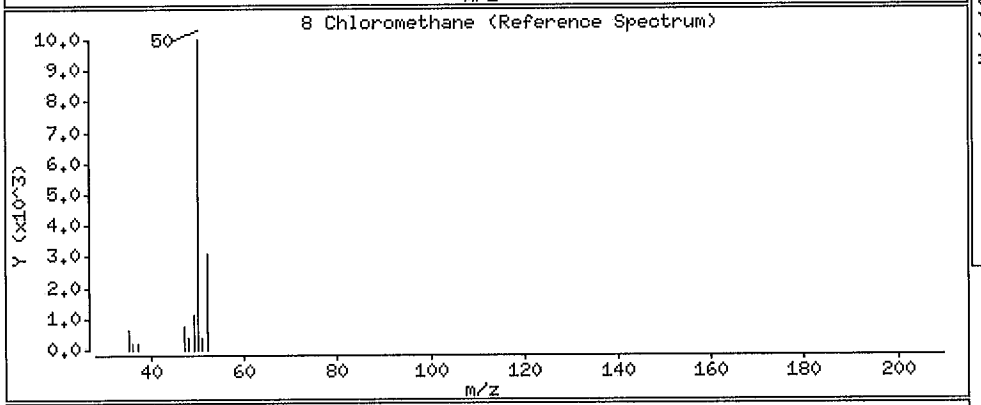
Concentration: 0.6310 ppb(v/v)

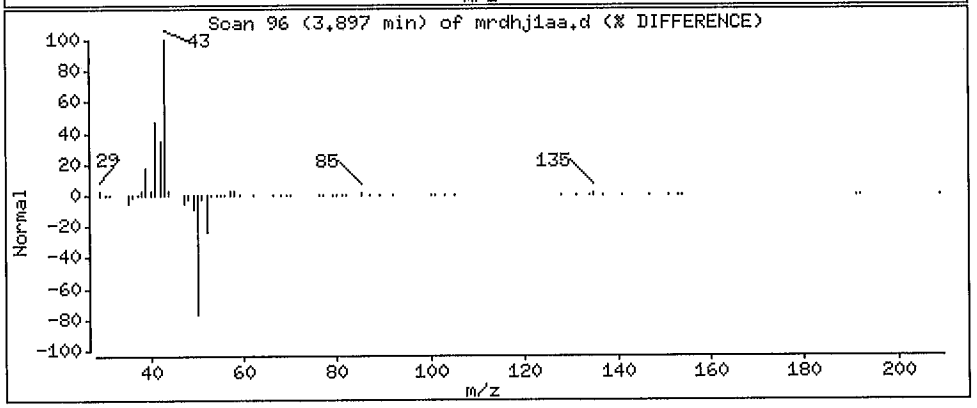












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d

Date : 13-MAR-2012 17:17

Client ID: HOUSE # 1 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

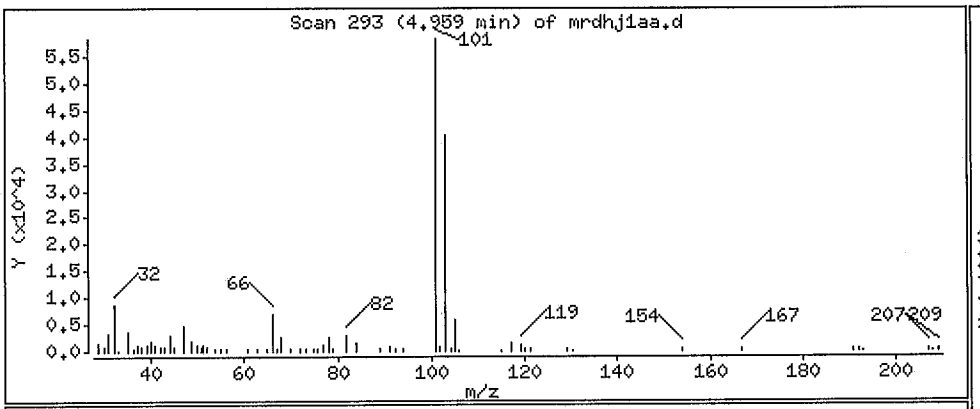
Operator: 7126

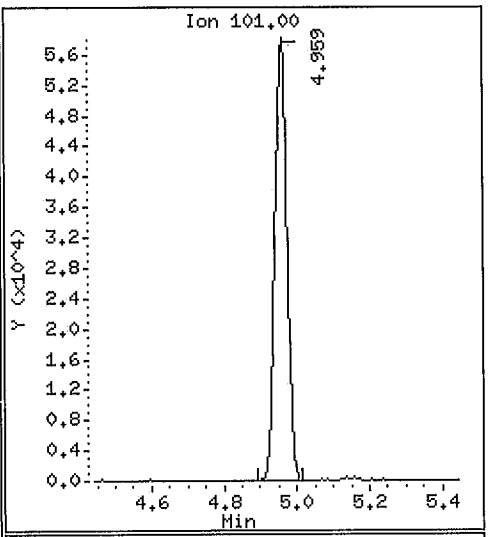
Column phase: Rtx-5

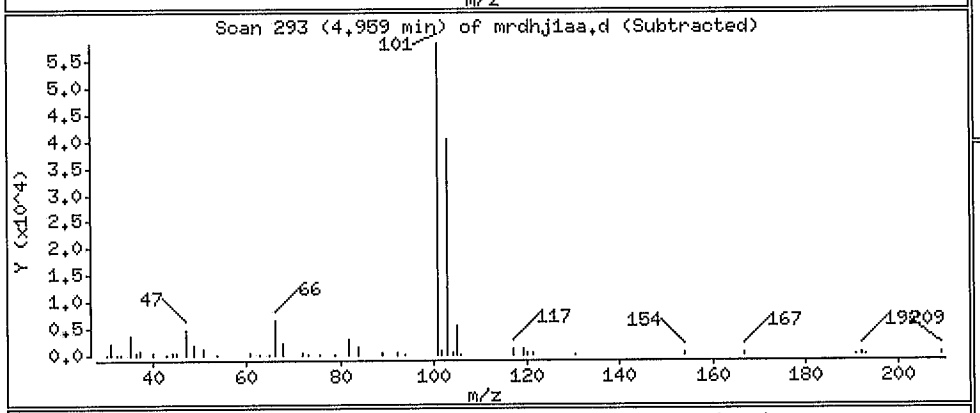
Column diameter: 0.32

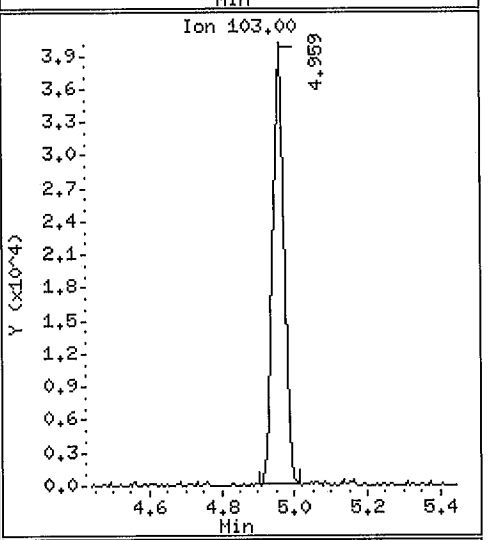
20 Trichlorofluoromethane

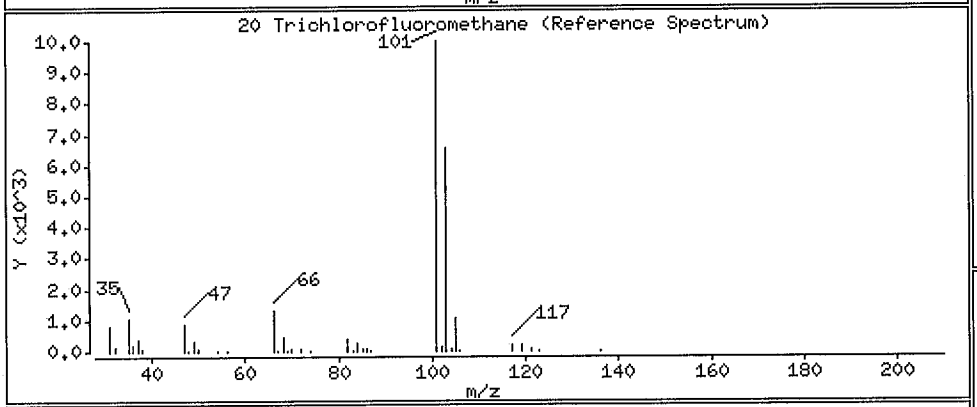
Concentration: 0.1988 ppb(v/v)

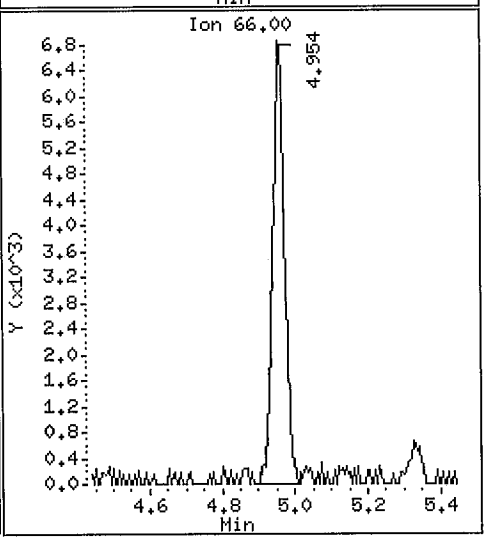


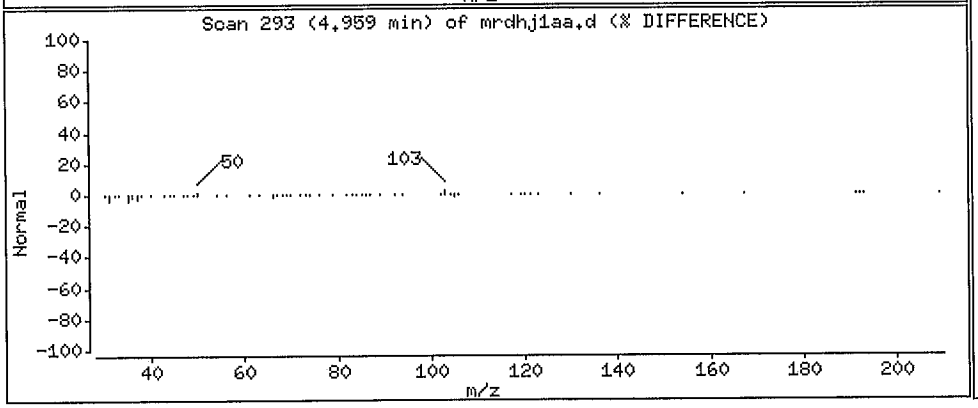












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d

Date : 13-MAR-2012 17:17

Client ID: HOUSE # 1 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

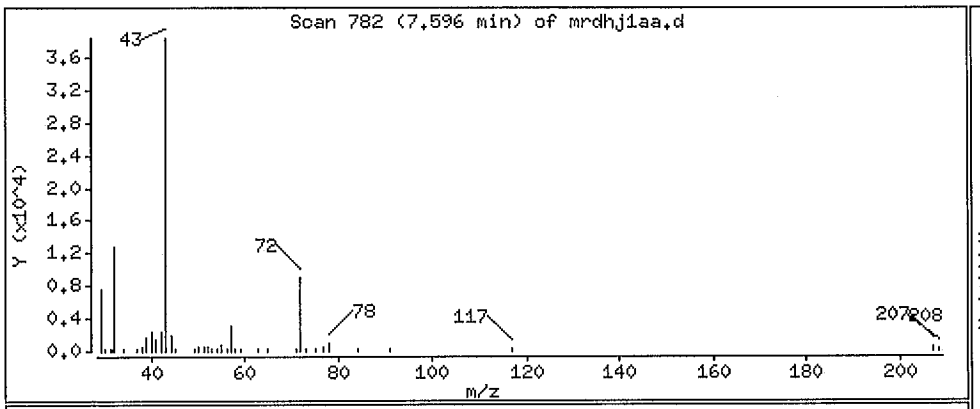
Operator: 7126

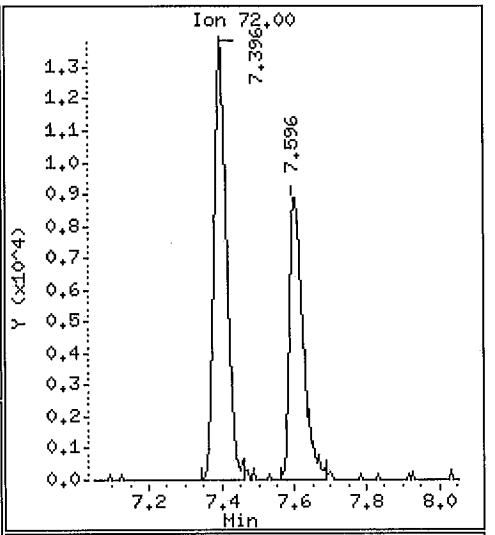
Column phase: Rtx-5

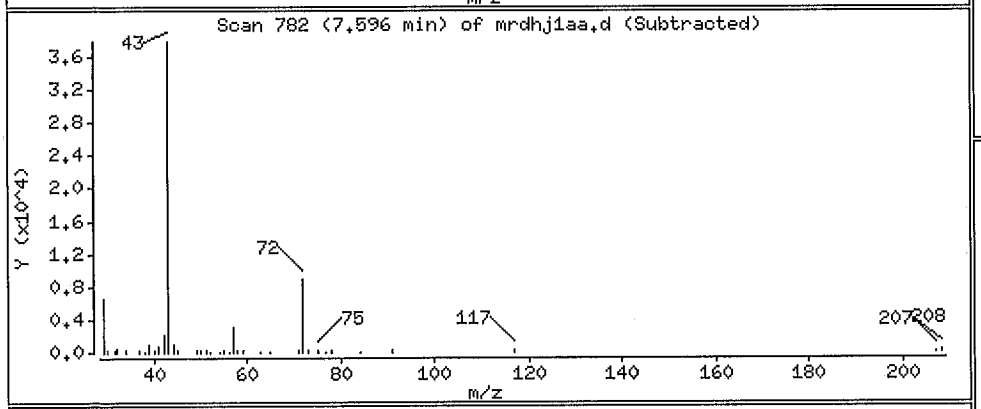
Column diameter: 0.32

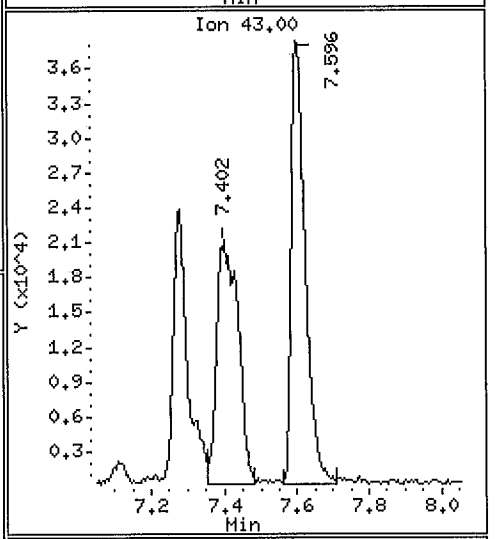
39 2-Butanone

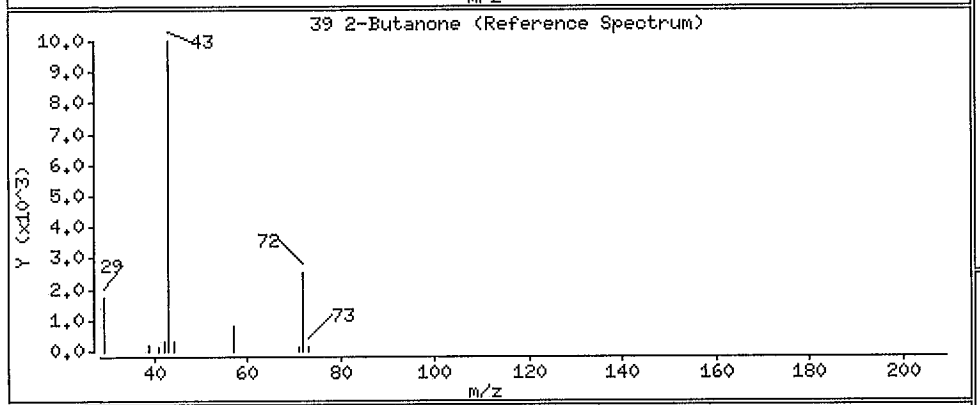
Concentration: 0.2752 ppb(v/v)

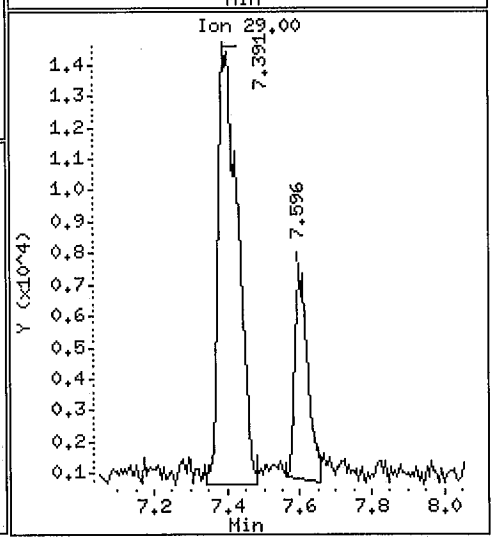


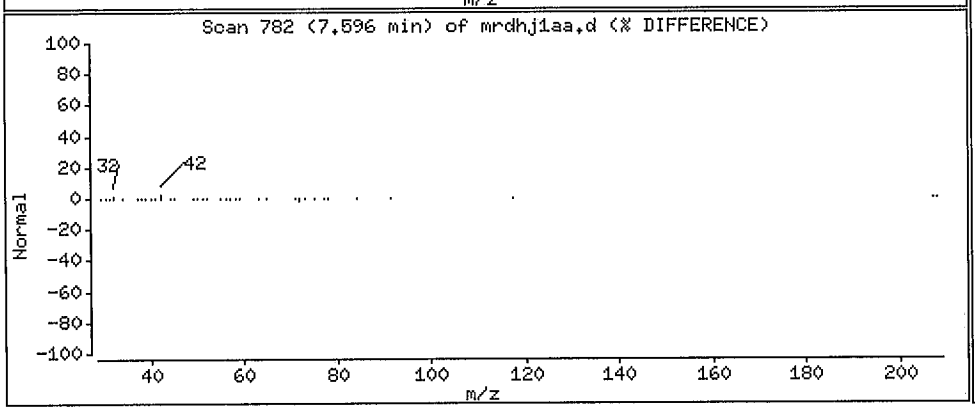












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d

Date : 13-MAR-2012 17:17

Client ID: HOUSE # 1 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

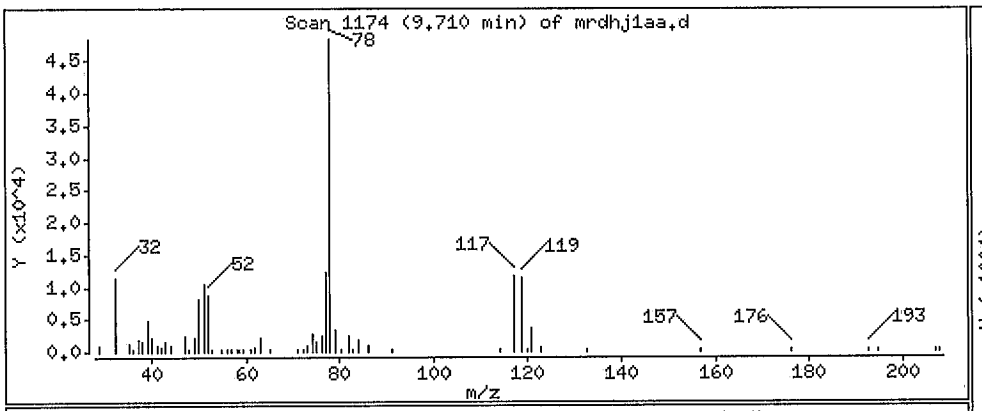
Operator: 7126

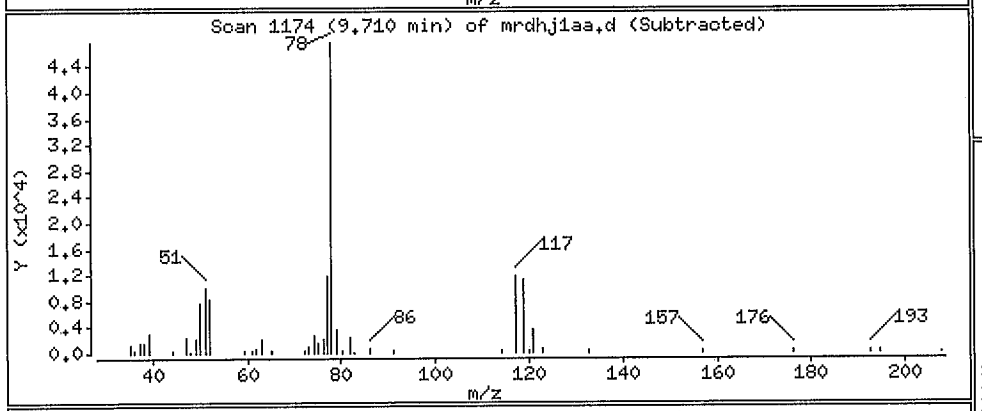
Column phase: Rtx-5

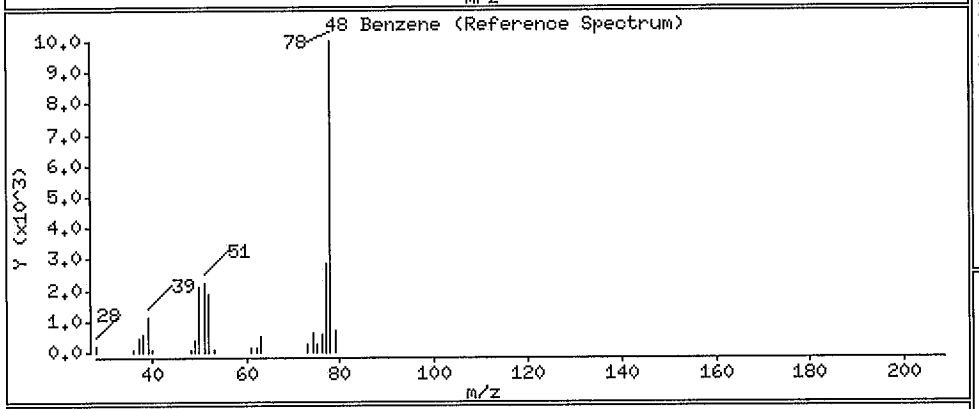
Column diameter: 0.32

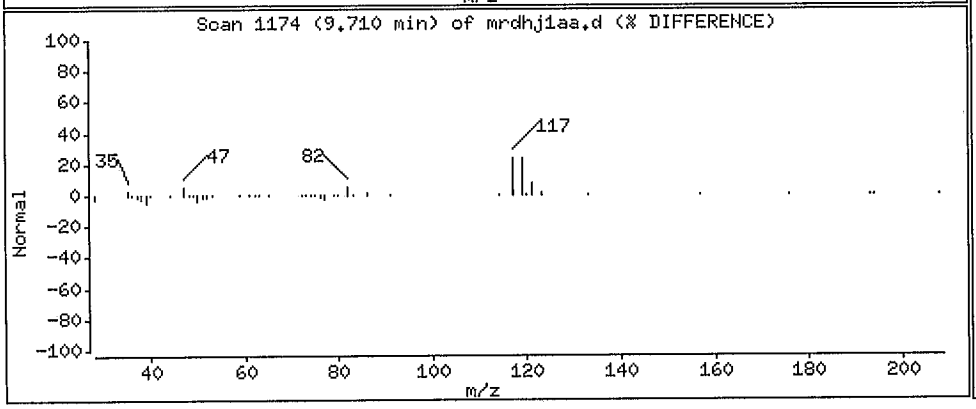
48 Benzene

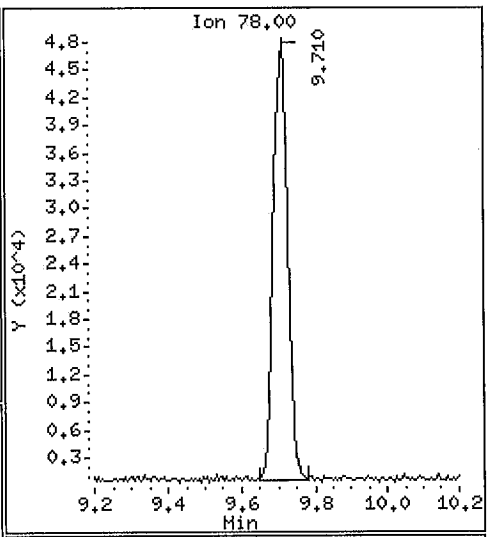
Concentration: 0.1954 ppb(v/v)

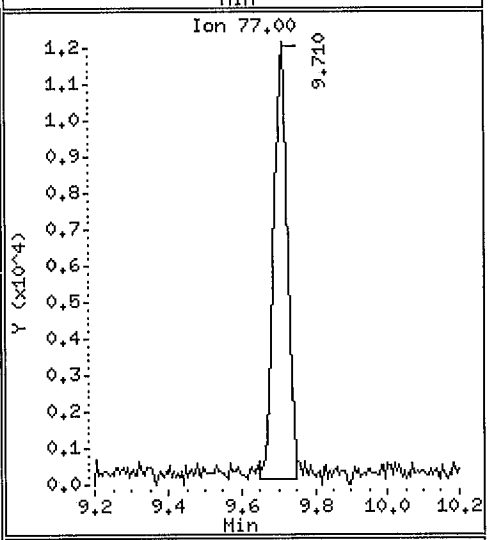


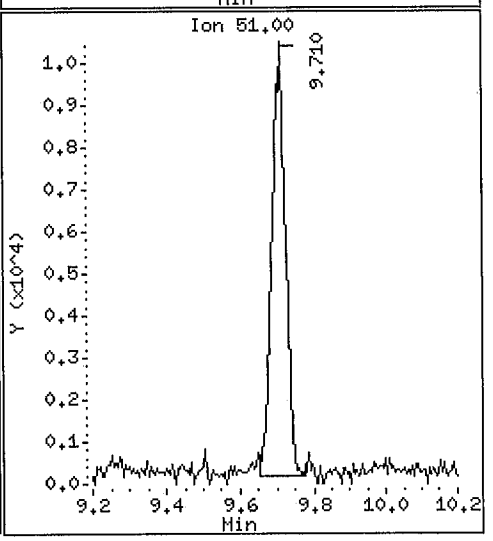












Data File: /var/chem/goms/mg.i/G031312.b/mrdhj1aa.d

Date : 13-MAR-2012 17:17

Client ID: HOUSE # 1 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

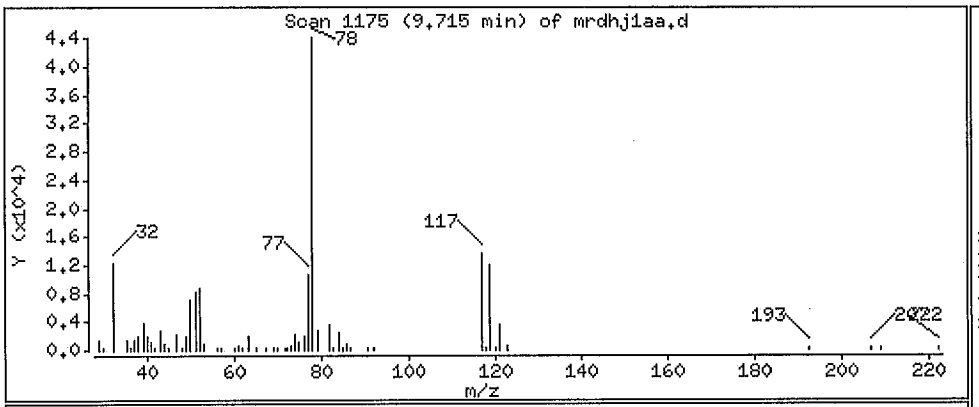
Operator: 7126

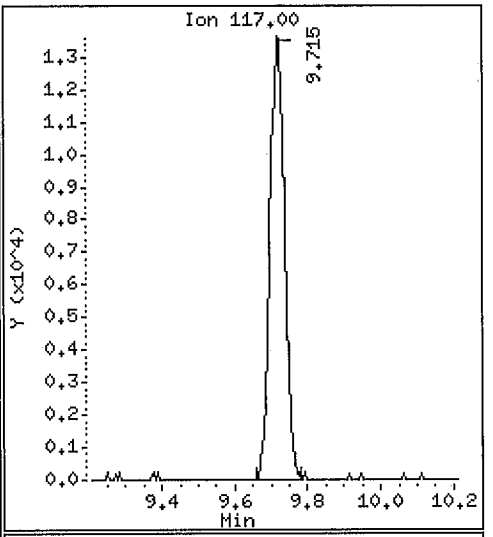
Column phase: Rtx-5

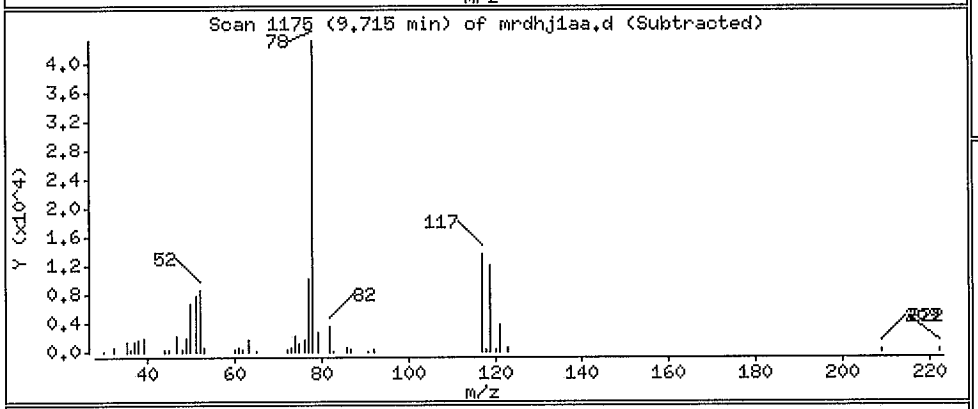
Column diameter: 0.32

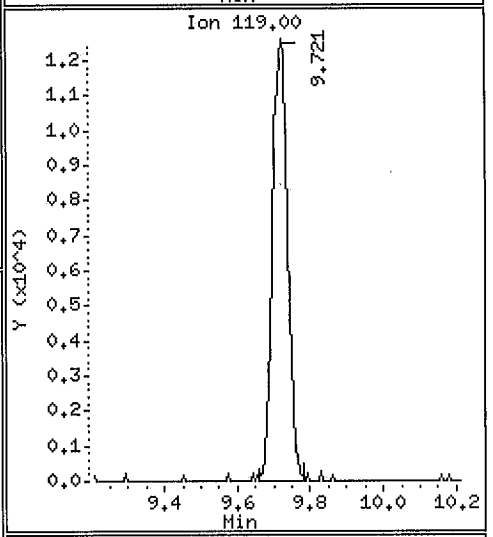
50 Carbon Tetrachloride

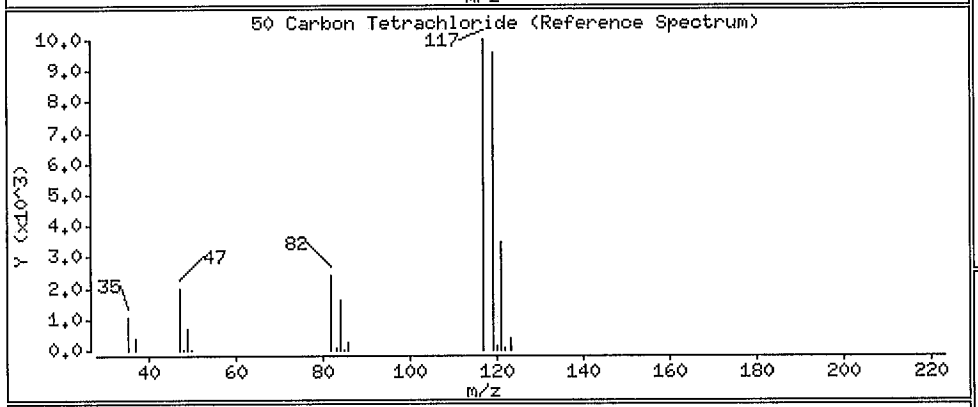
Concentration: 0.06565 ppb(v/v)

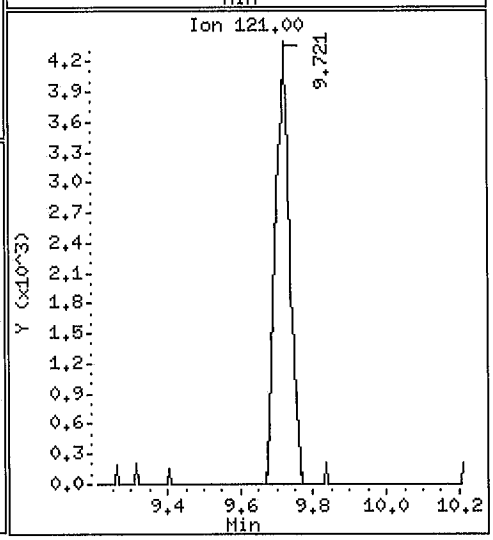


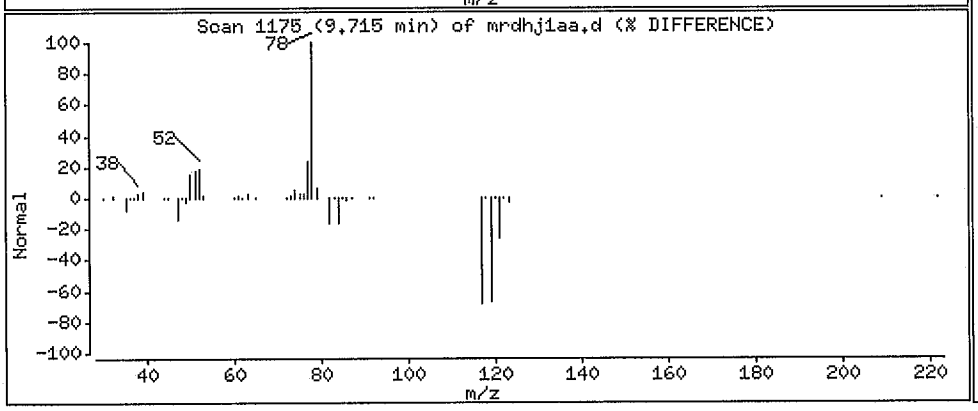












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d

Date : 13-MAR-2012 17:17

Client ID: HOUSE # 1 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

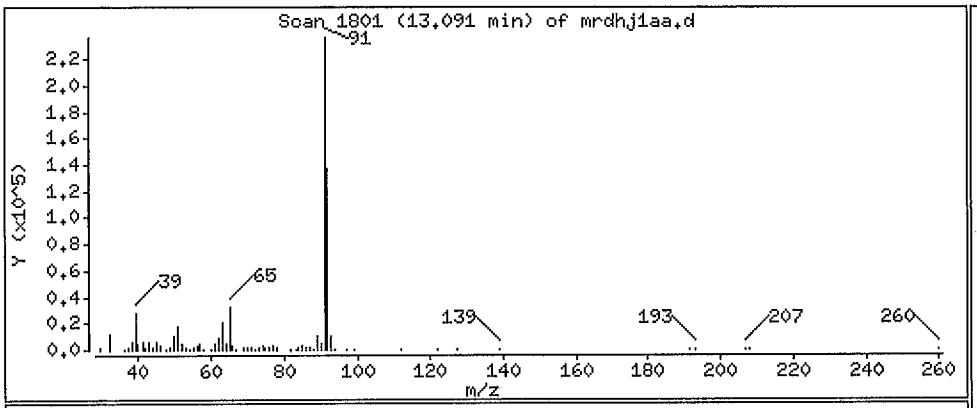
Operator: 7126

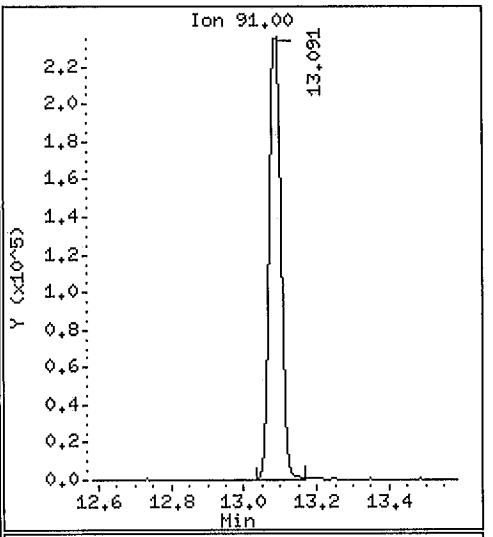
Column phase: Rtx-5

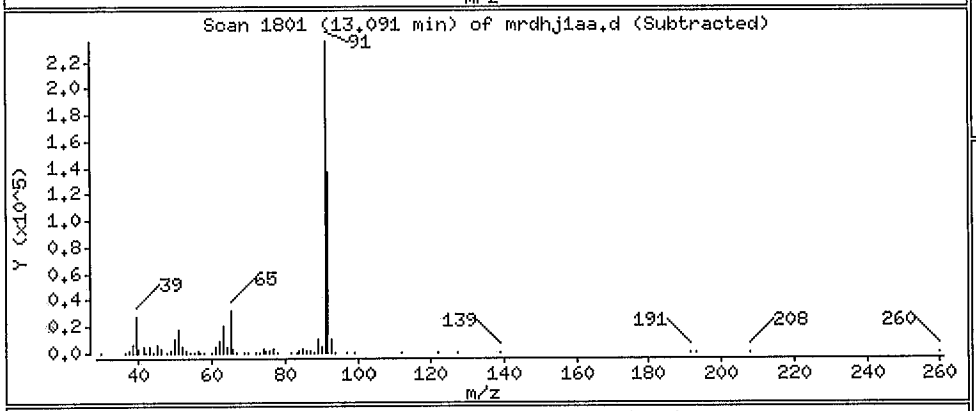
Column diameter: 0.32

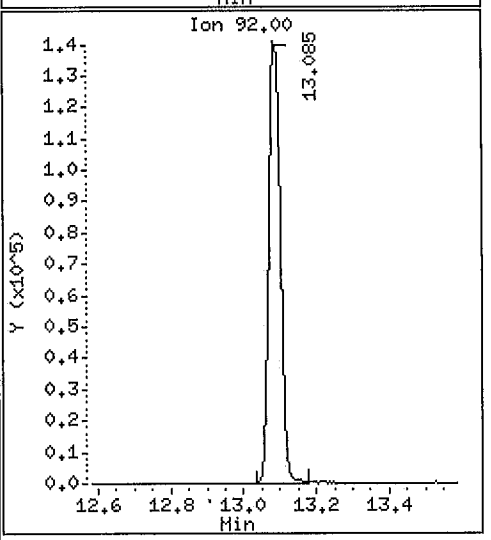
65 Toluene

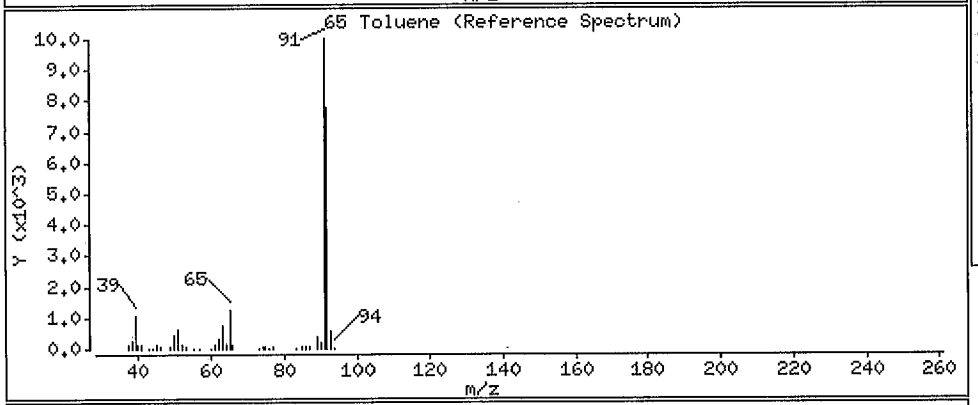
Concentration: 0.6245 ppb(v/v)

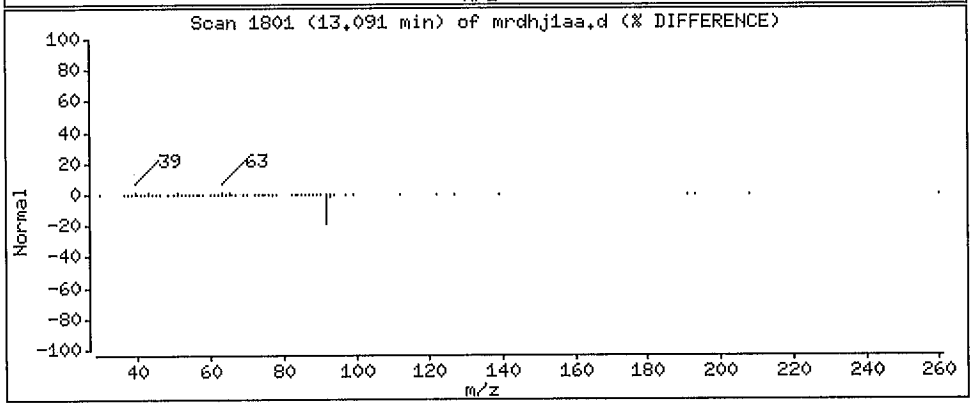












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d

Date : 13-MAR-2012 17:17

Client ID: HOUSE # 1 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

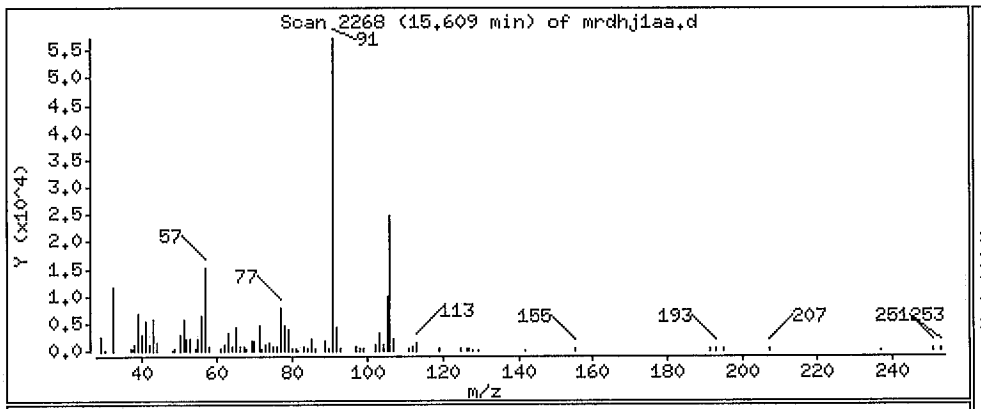
Operator: 7126

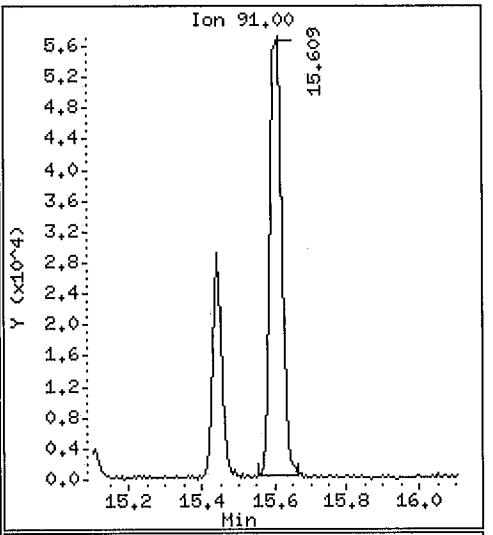
Column phase: Rtx-5

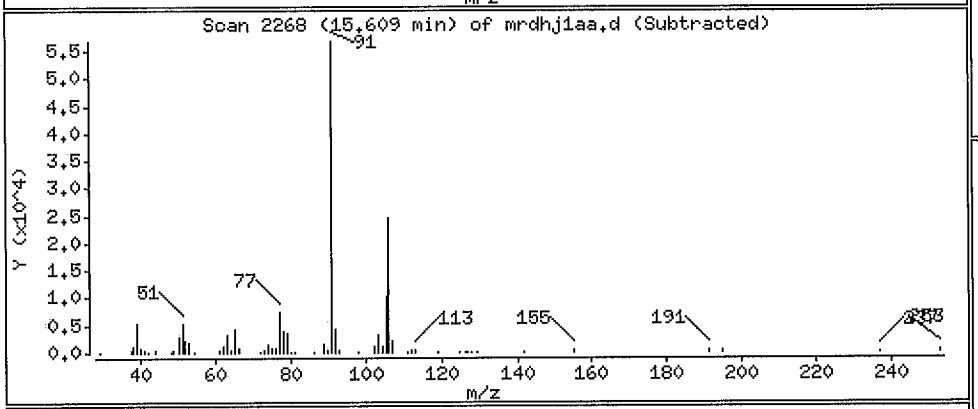
Column diameter: 0.32

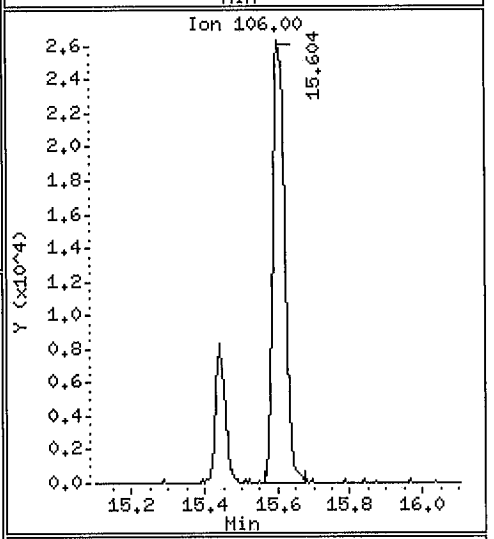
78 m&p-Xylene

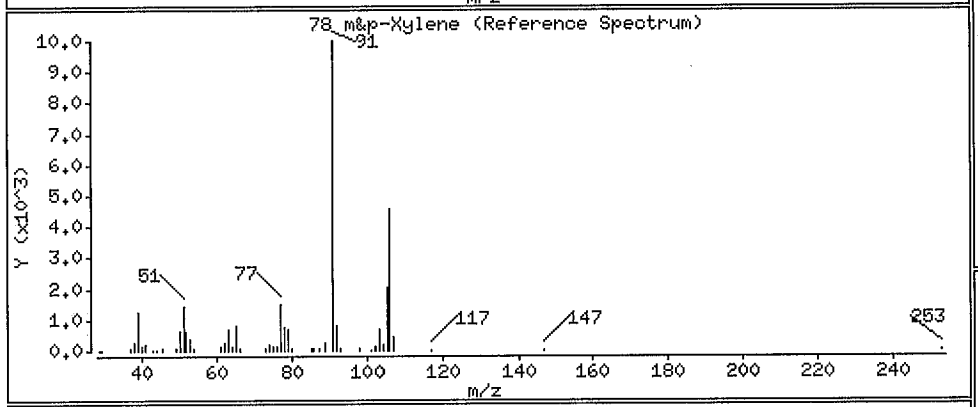
Concentration: 0.1561 ppb(v/v)

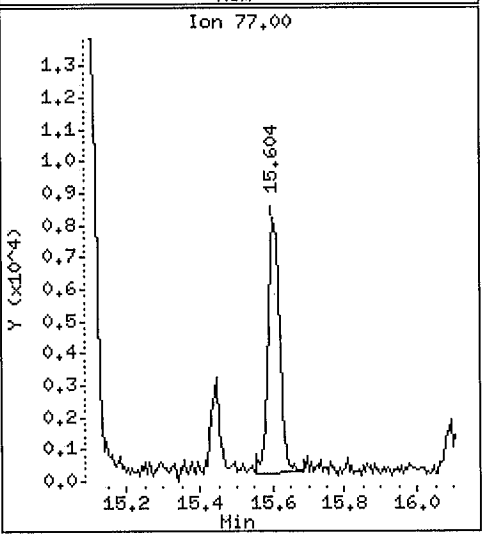


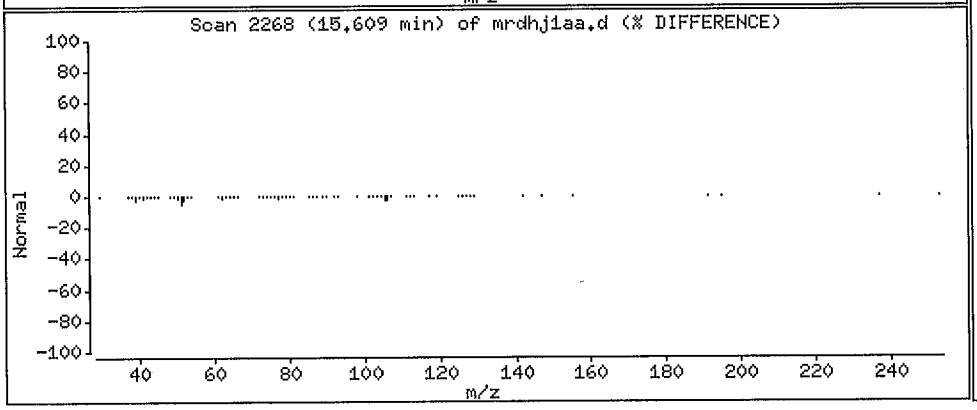












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhj1aa.d

Date : 13-MAR-2012 17:17

Client ID: HOUSE # 1 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

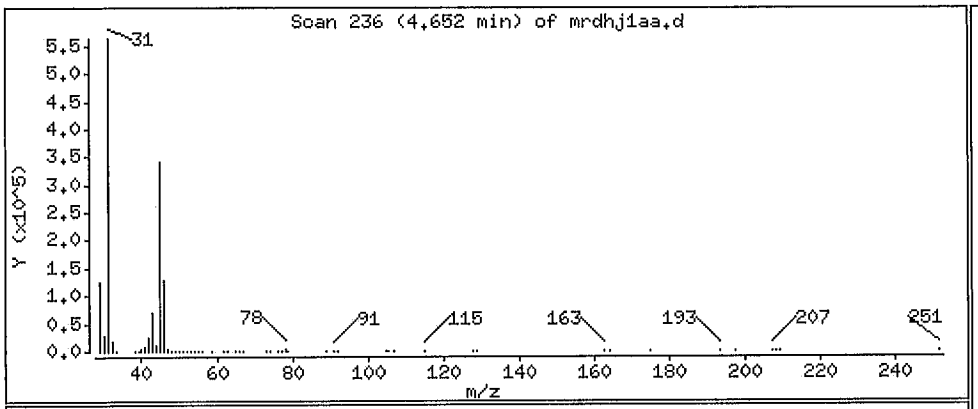
Operator: 7126

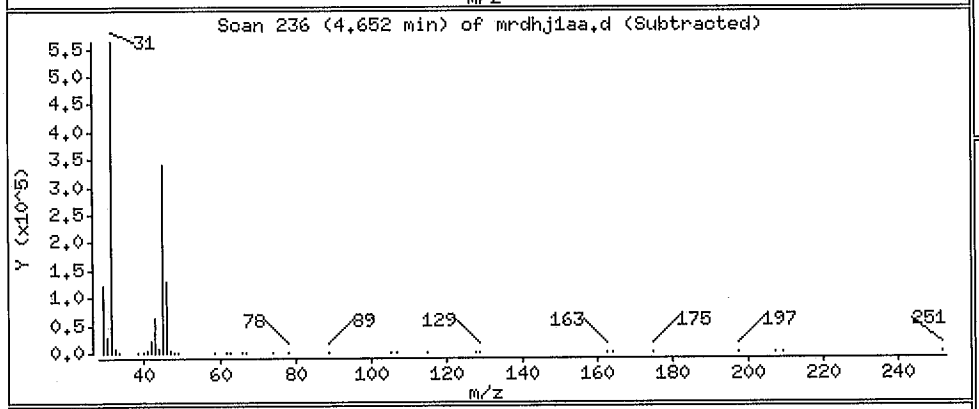
Column phase: Rtx-5

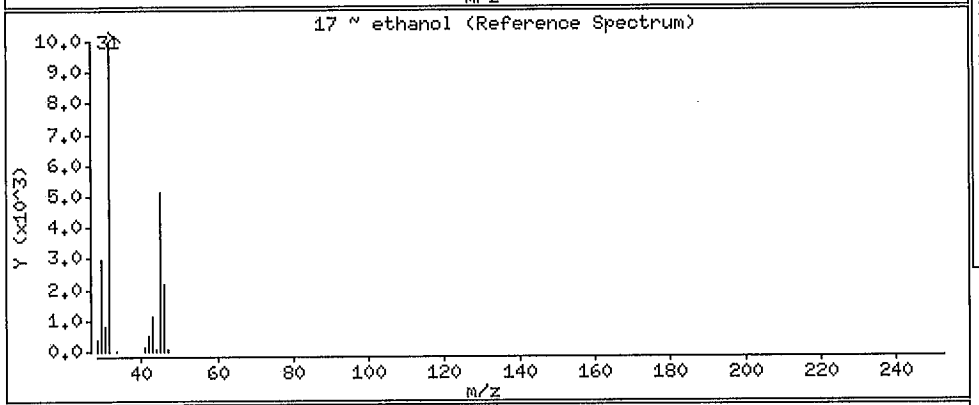
Column diameter: 0.32

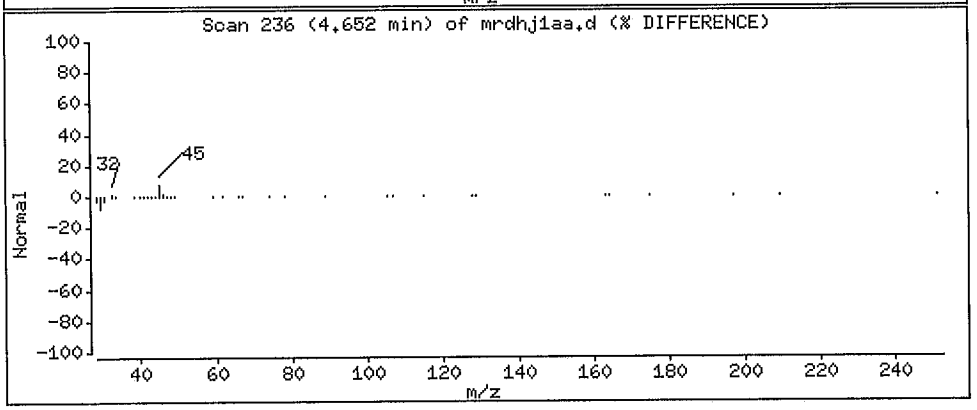
17 ~ ethanol

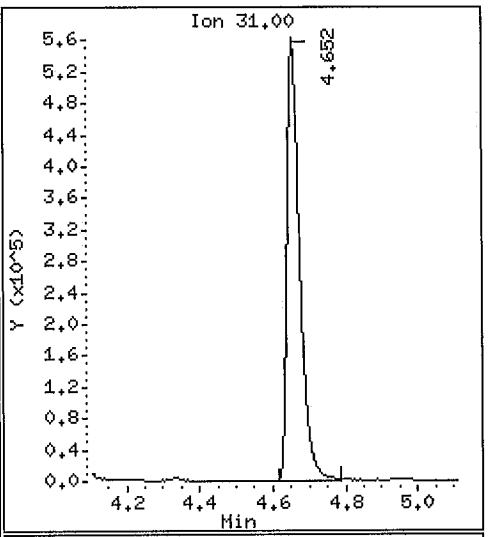
Concentration: 22.98 ppb(v/v)

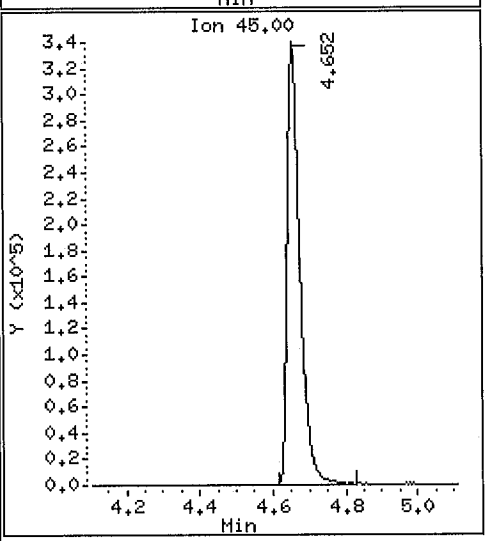












New York State D.E.C.

Client Sample ID: HOUSE # 2 SS

GC/MS Volatiles

Lot-Sample #	H2C130401 - 003	**Work Order #**	MRDHK1AA	**Matrix.....:**	AIR
Date Sampled...:	03/09/2012	**Date Received..:**	03/10/2012		
Prep Date.....:	03/13/2012	**Analysis Date...**	03/13/2012		
Prep Batch #.....:	2073128				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**1.9**	**0.080**	**9.2**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.44**	**0.080**	**2.1**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**2.0**	**0.32**	**5.9**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	**1.2**	**0.20**	**5.7**	**0.93**
Benzene	**3.2**	**0.080**	**10**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.056**	**0.040**	**0.35**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.47**	**0.080**	**2.3**	**0.39**
Cyclohexane	**2.7**	**0.20**	**9.3**	**0.69**
Chloromethane	**0.39**	**0.20**	**0.80**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.51**	**0.080**	**2.5**	**0.40**
Ethanol	**37**	**0.80**	**70**	**1.5**
Ethylbenzene	**2.3**	**0.080**	**10**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**7.4**	**0.20**	**26**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 2 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 003 **Work Order #** MRDHK1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	**0.20**	**0.080**	**0.83**	**0.34**
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**13**	**0.080**	**48**	**0.30**
m-Xylene & p-Xylene	**8.7**	**0.080**	**38**	**0.35**
o-Xylene	**3.0**	**0.080**	**13**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.19**	**0.080**	**1.0**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	115	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d
Lab Smp Id: MRDHK1AA Client Smp ID: HOUSE # 2 SS
Inj Date : 13-MAR-2012 18:13
Operator : 7126 Inst ID: mg.i
Smp Info : ,,0,,,
Misc Info : G031312,TO15,nysdec.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 14-Mar-2012 13:23 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

3/16/12

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.178	8.168	(1.000)	551751	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.292	10.281	(1.000)	2902823	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.108	15.102	(1.000)	2868845	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.779	16.779	(1.111)	2396442	4.61311	4.613
	7 Dichlorodifluoromethane	85	3.735	3.724	(0.457)	272092	0.51399	0.5140
	8 Chloromethane	52	3.892	3.875	(0.476)	19837	0.38751	0.3875
	20 Trichlorofluoromethane	101	4.959	4.943	(0.606)	98786	0.18592	0.1859
	28 tert-butanol	59	5.827	5.736	(0.713)	7715	0.03552	0.03552
	40 Hexane	56	7.440	7.418	(0.910)	1183099	7.40593	7.406
	39 2-Butanone	72	7.564	7.553	(0.925)	150599	2.01457	2.014
	43 Chloroform	83	8.195	8.178	(1.002)	188533	0.47092	0.4709
	49 Cyclohexane	69	9.656	9.645	(0.938)	280999	2.71615	2.716
	48 Benzene	78	9.710	9.699	(0.943)	1738309	3.18568	3.186
	50 Carbon Tetrachloride	117	9.715	9.710	(0.944)	26418	0.05620	0.05620
	53 2,2,4-trimethylpentane	57	10.422	10.411	(1.013)	1112384	1.22581	1.226
	65 Toluene	91	13.086	13.085	(0.866)	8836604	12.6437	12.64(A)

ok

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d
Report Date: 14-Mar-2012 13:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
76 Ethylbenzene	91	15.442	15.442	(1.022)	2051198	2.32627	2.326
78 m&p-Xylene	91	15.604	15.604	(1.033)	5989732	8.73041	8.730
81 Styrene	104	16.089	16.089	(1.065)	98923	0.19512	0.1951
82 o-Xylene	91	16.138	16.138	(1.068)	2178192	3.04486	3.045
90 1,3,5-Trimethylbenzene	120	17.529	17.529	(1.160)	196736	0.43536	0.4354
94 1,2,4-Trimethylbenzene	105	17.987	17.987	(1.191)	1498375	1.87168	1.872
17 ~ ethanol	31	4.641	4.609	(0.567)	1906088	37.2190	37.22

QC Flag Legend

3/14/12

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

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: mrdhk1aa.d
Lab Smp Id: MRDHK1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: HOUSE # 2 SS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	551751	-1.68
2 1,4-Difluorobenze	2909107	1730919	4087295	2902823	-0.22
3 Chlorobenzene-d5	2830968	1684426	3977510	2868845	1.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.18	0.13
2 1,4-Difluorobenze	10.28	9.95	10.61	10.29	0.11
3 Chlorobenzene-d5	15.10	14.77	15.43	15.11	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

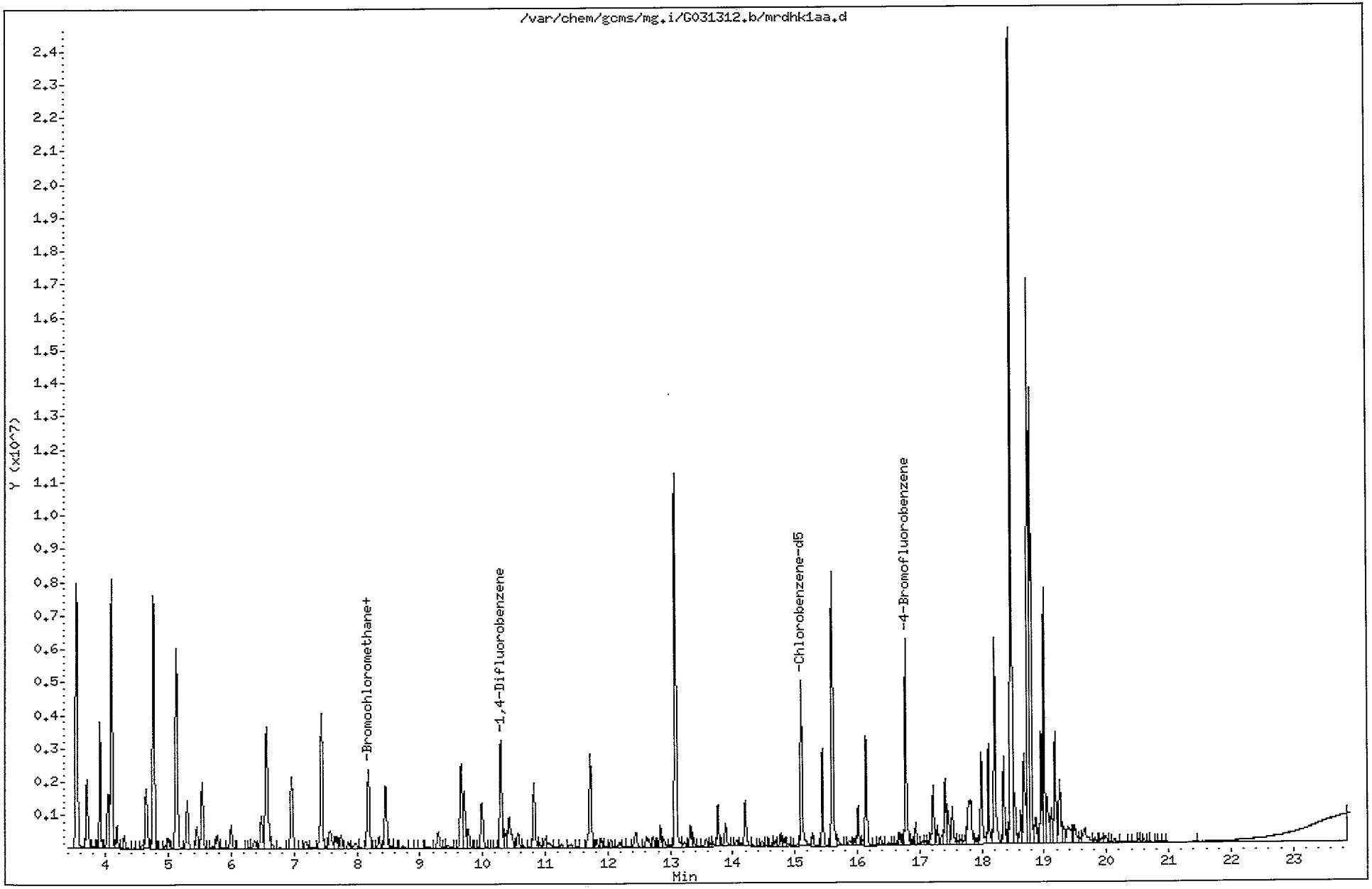
RECOVERY REPORT

Client Name: New York State D.E.C10-MAR-2012 00:00 Client SDG: H2C130401
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MRDHK1AA Client Smp ID: HOUSE # 2 SS
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.613	115.33	70-130

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d
Date : 13-MAR-2012 18:13
Client ID: HOUSE # 2 SS
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

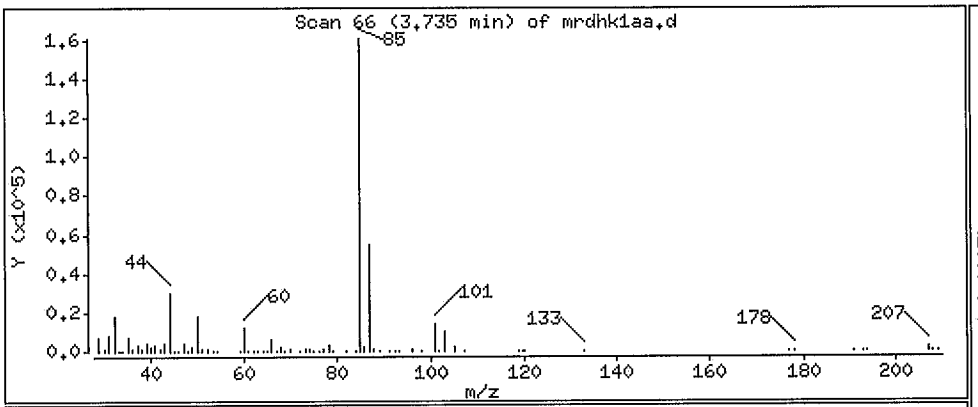
Operator: 7126

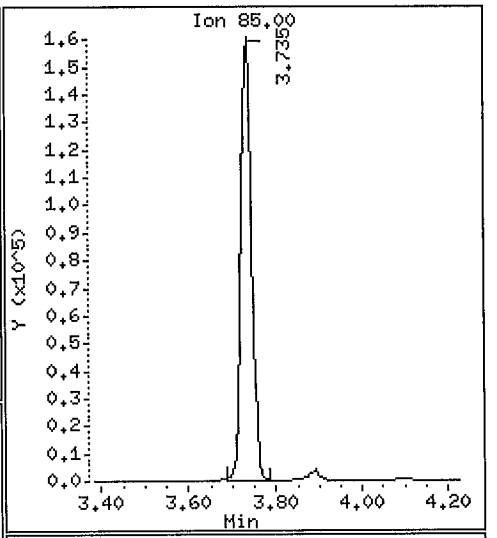
Column phase: Rtx-5

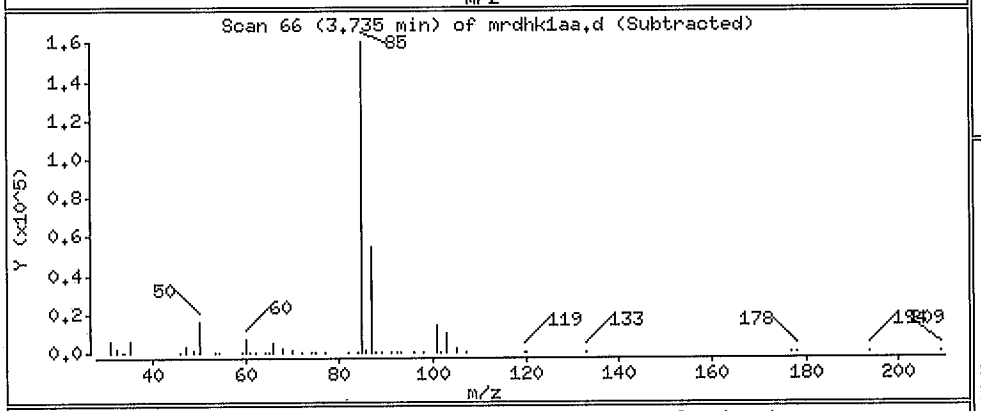
Column diameter: 0.32

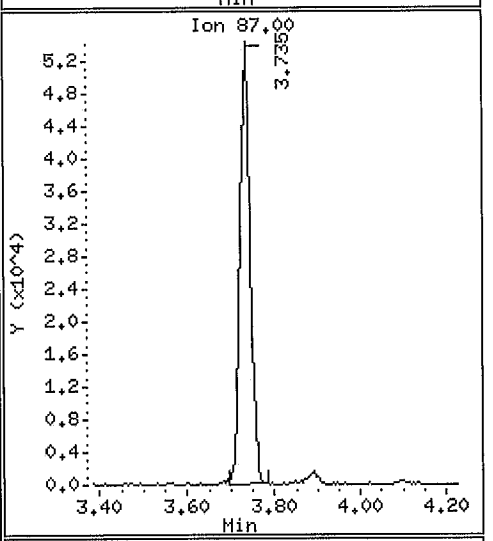
7 Dichlorodifluoromethane

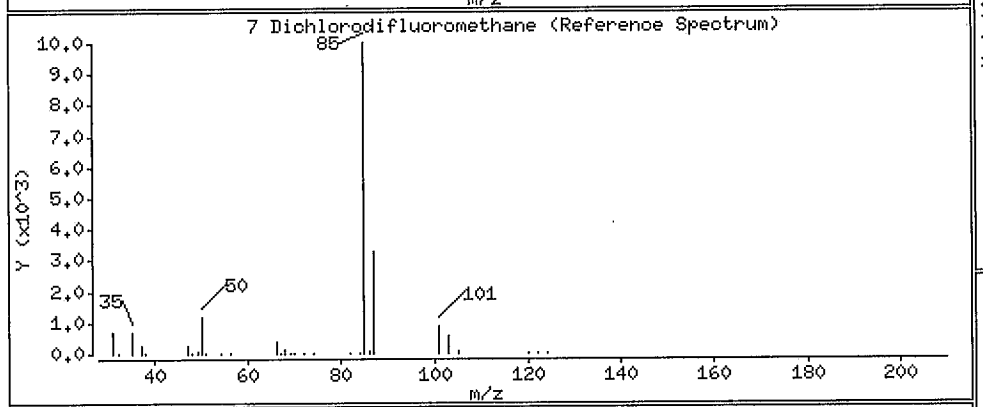
Concentration: 0.5140 ppb(v/v)

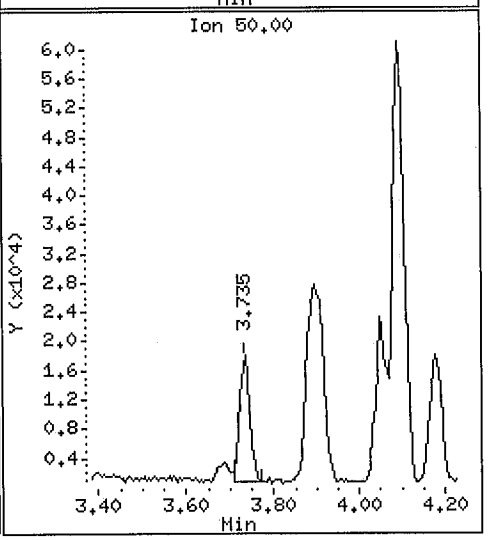


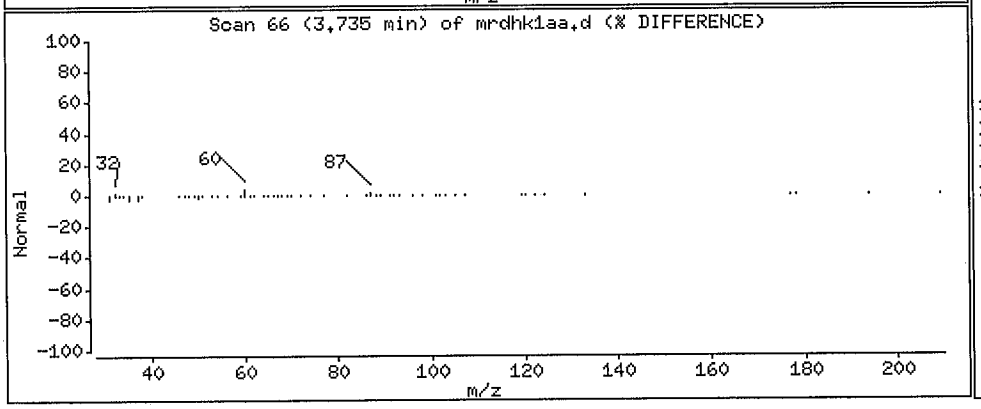












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

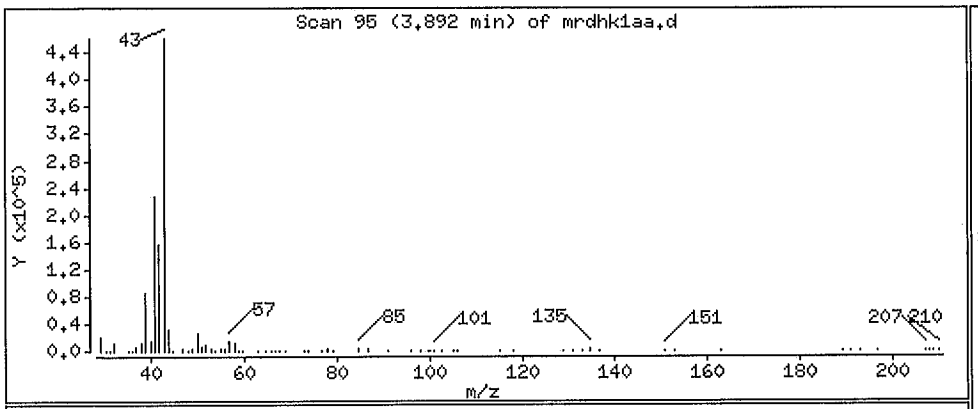
Operator: 7126

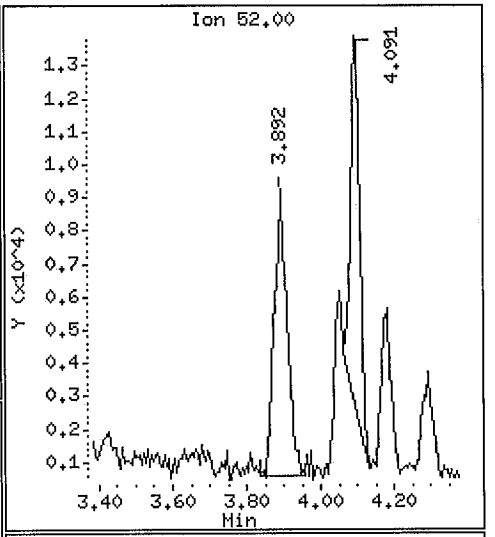
Column phase: Rtx-5

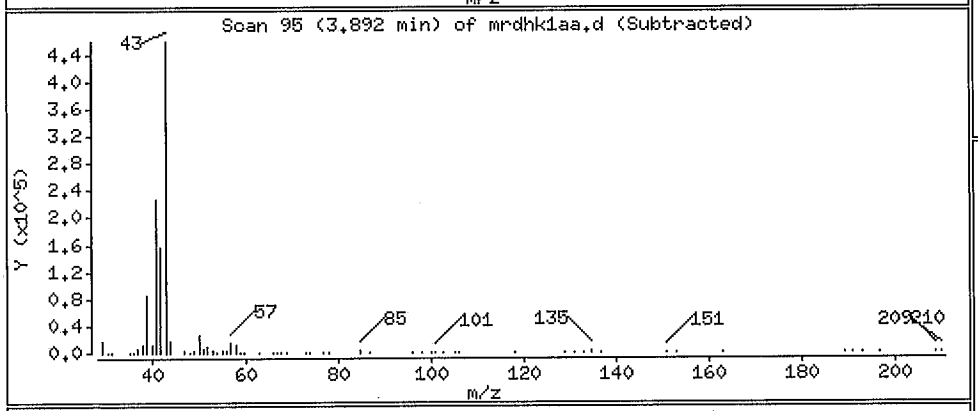
Column diameter: 0.32

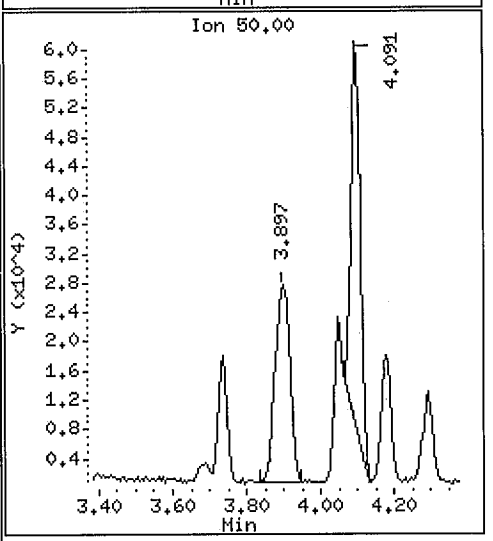
8 Chloromethane

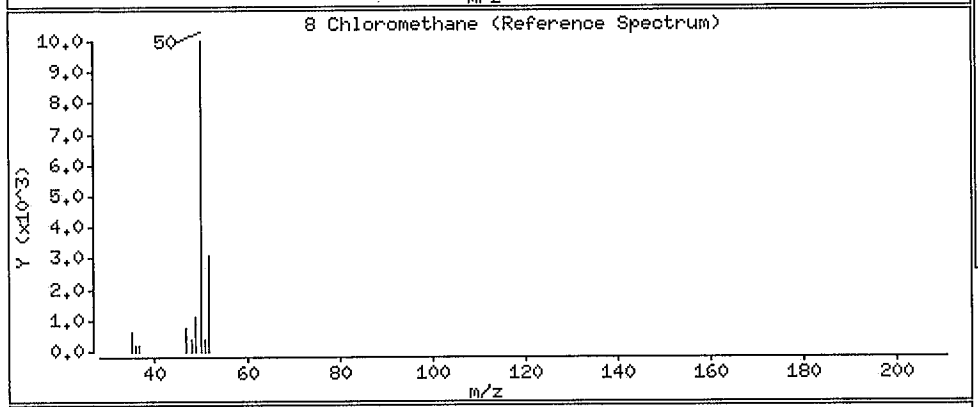
Concentration: 0.3875 ppb(v/v)

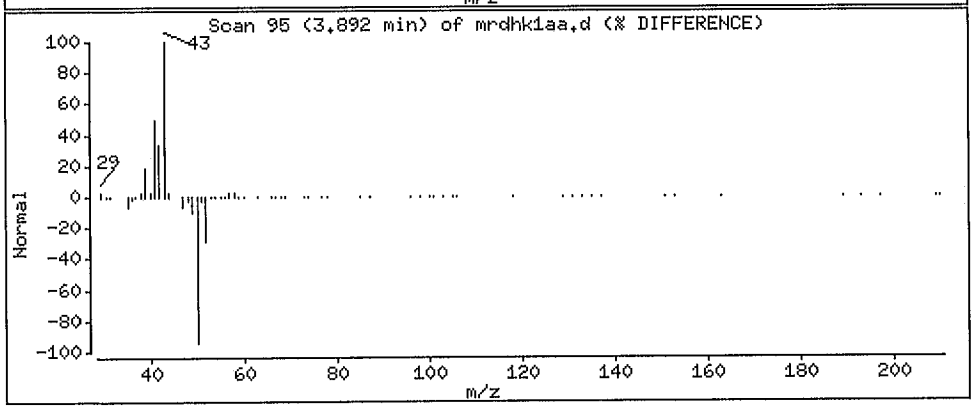












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

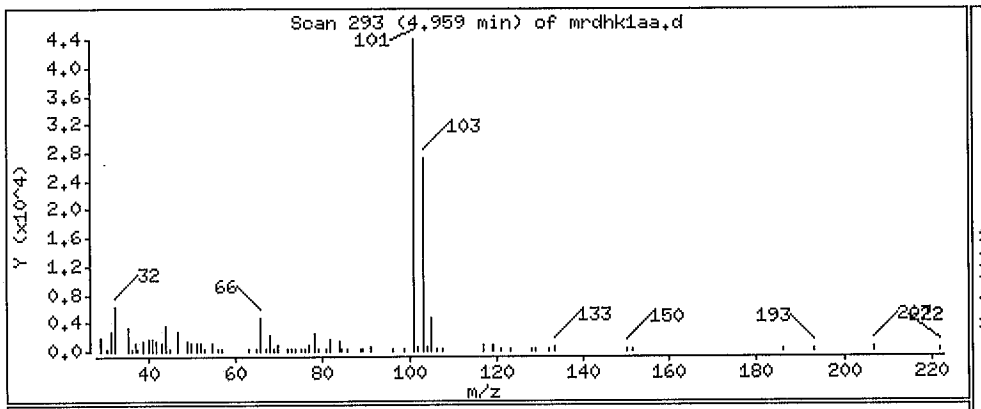
Operator: 7126

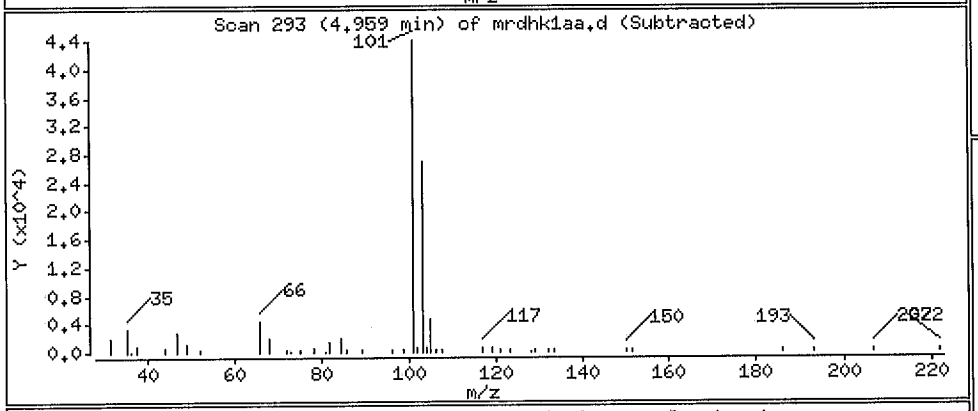
Column phase: Rtx-5

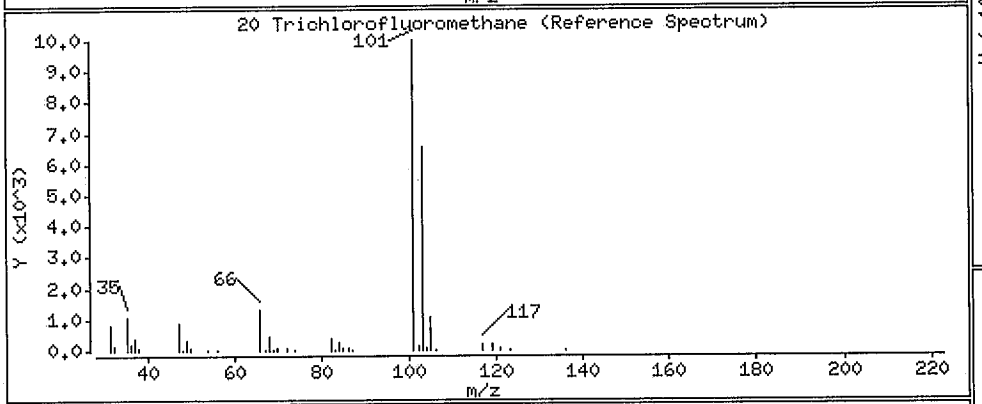
Column diameter: 0.32

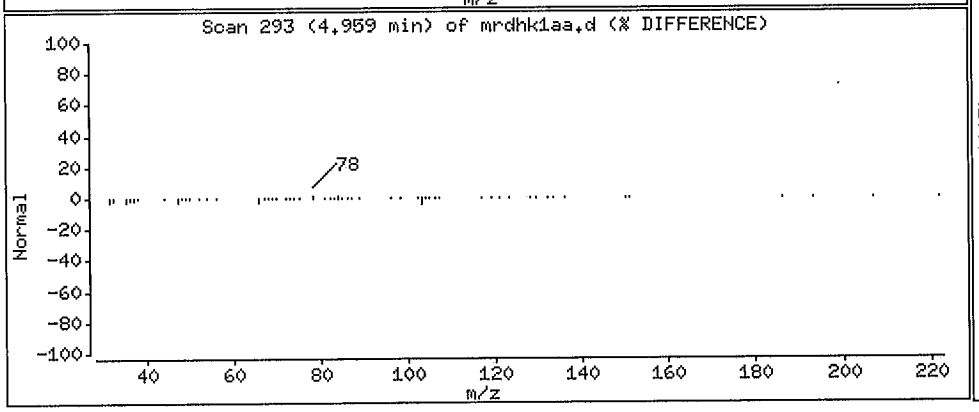
20 Trichlorofluoromethane

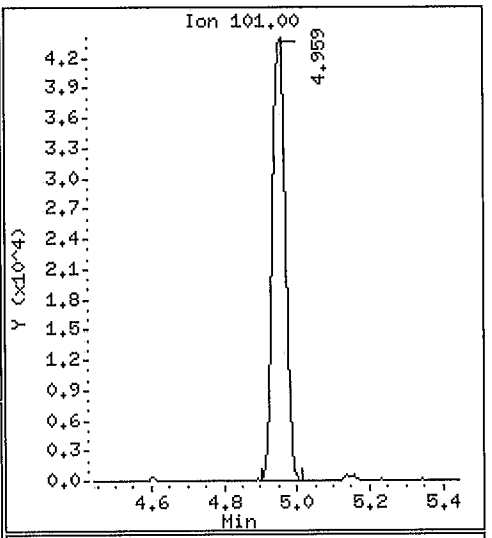
Concentration: 0.1859 ppb(v/v)

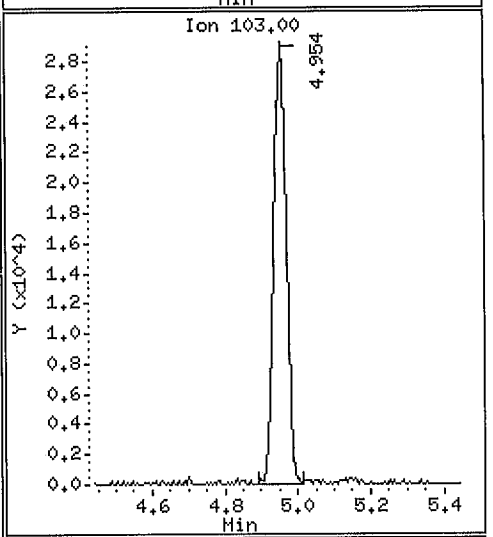


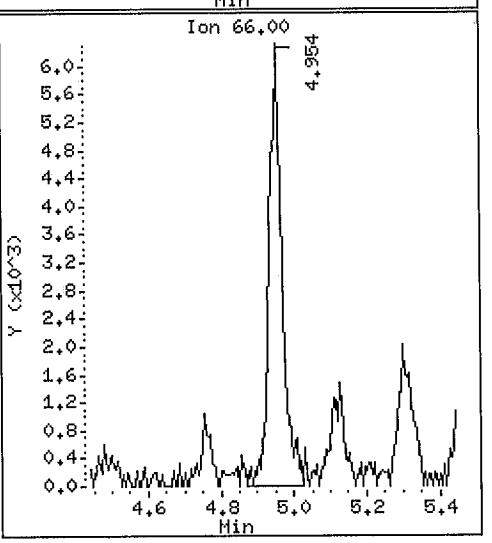












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

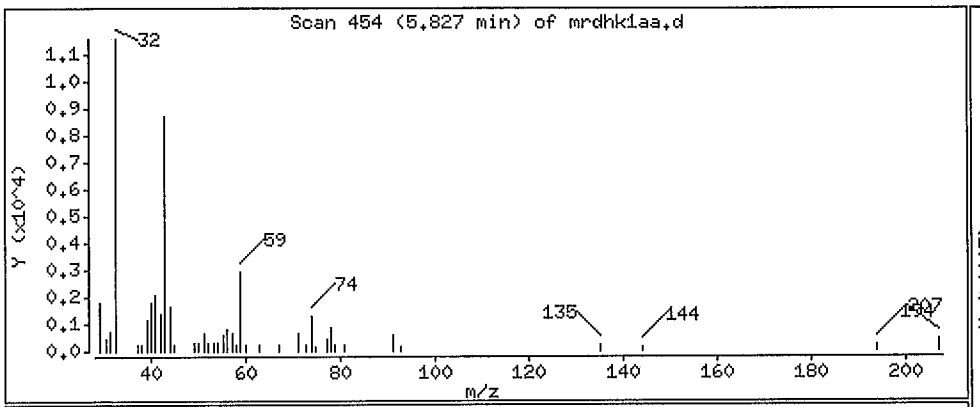
Operator: 7126

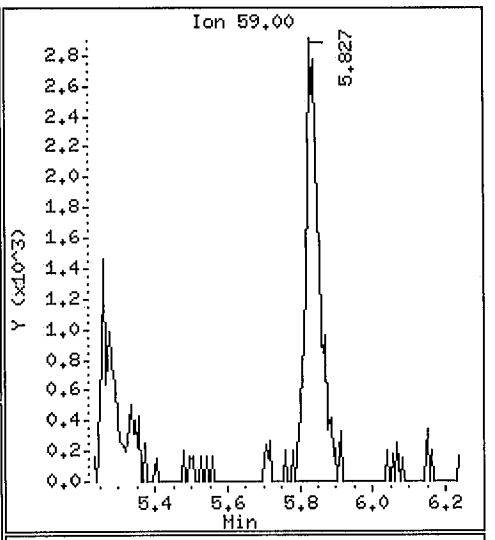
Column phase: Rtx-5

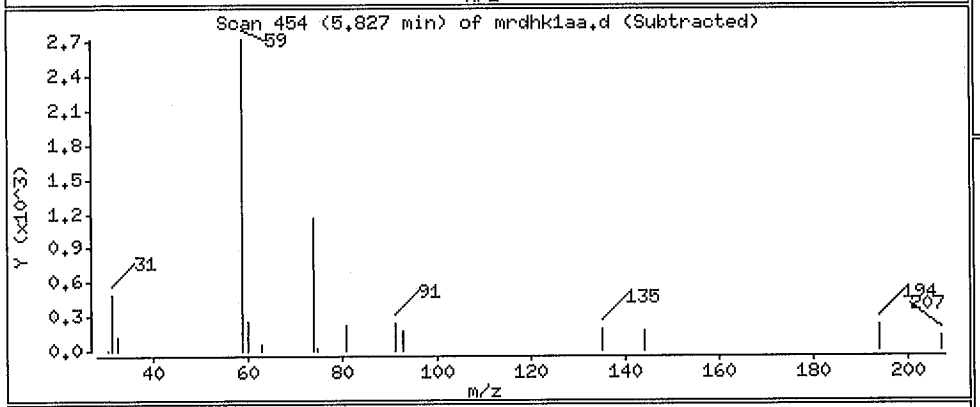
Column diameter: 0.32

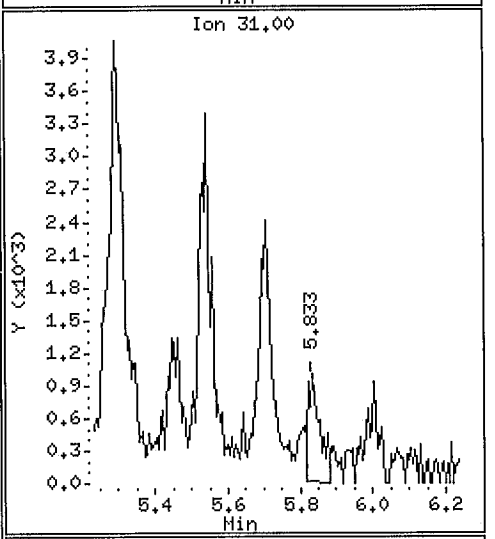
28 tert-butanol

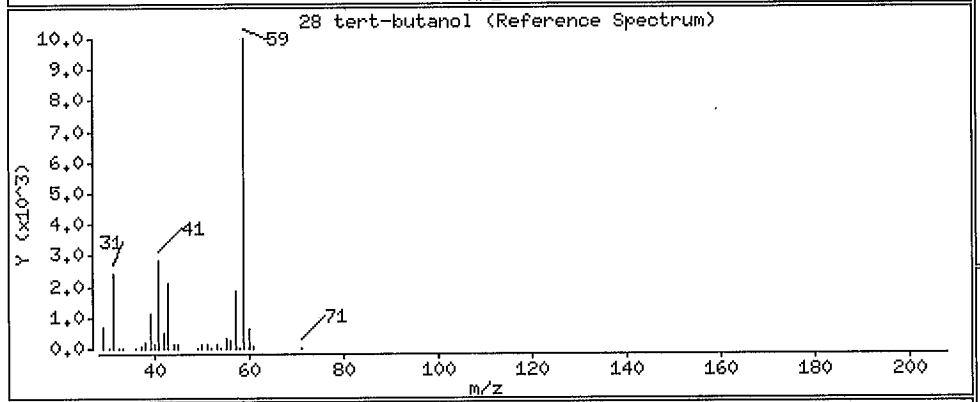
Concentration: 0.03552 ppb(v/v)

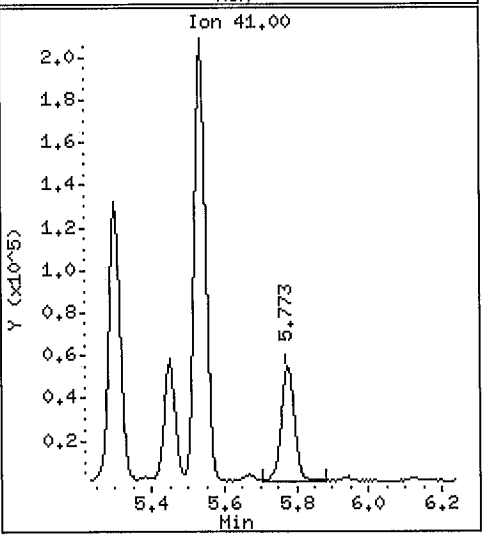


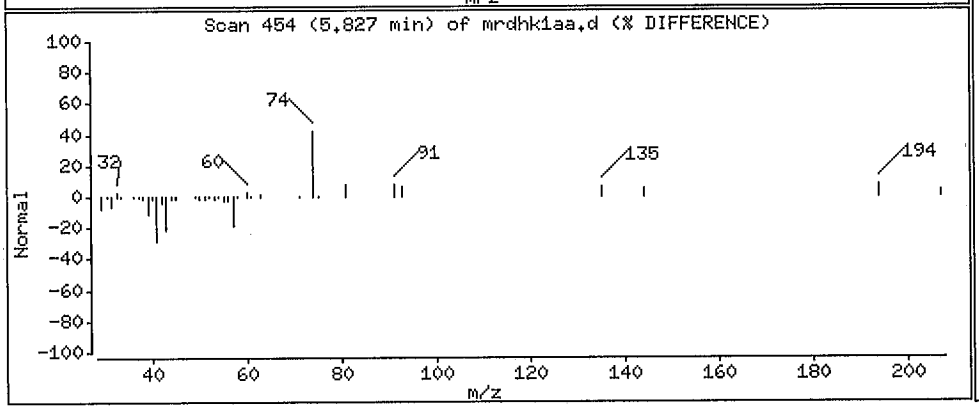












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

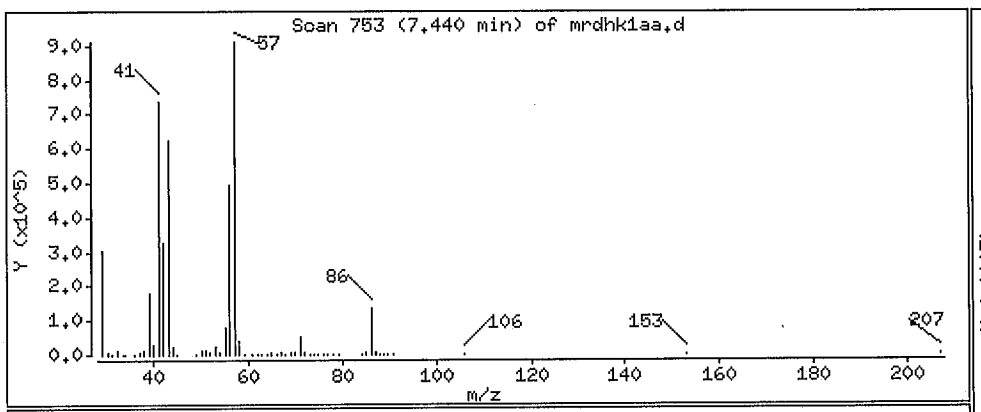
Operator: 7126

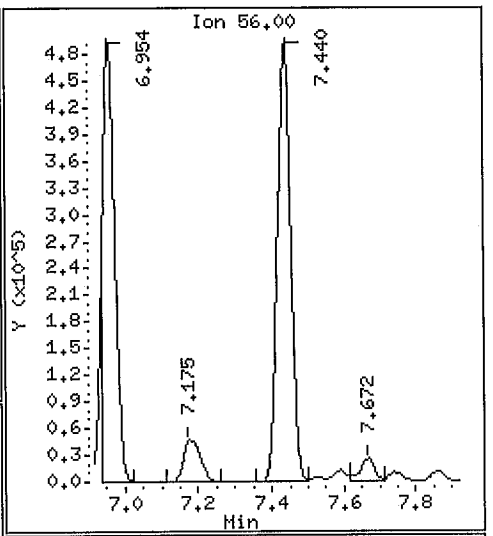
Column phase: Rtx-5

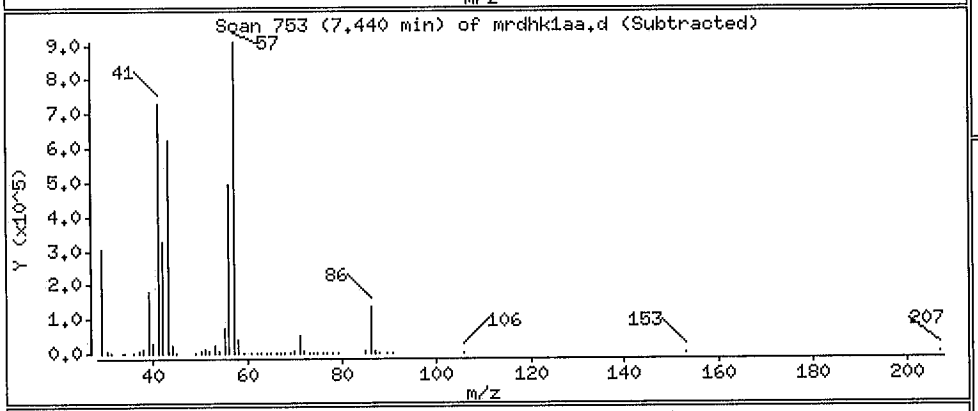
Column diameter: 0.32

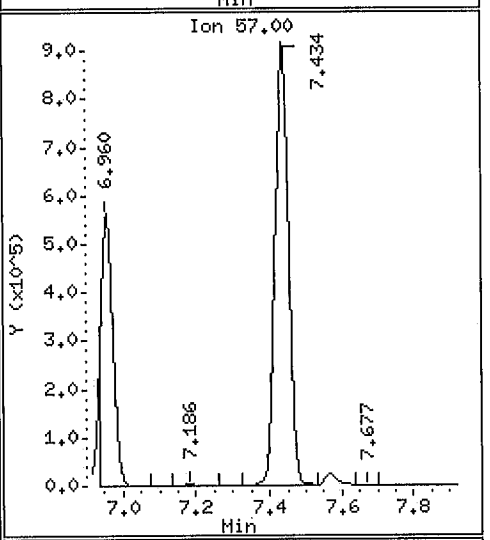
40 Hexane

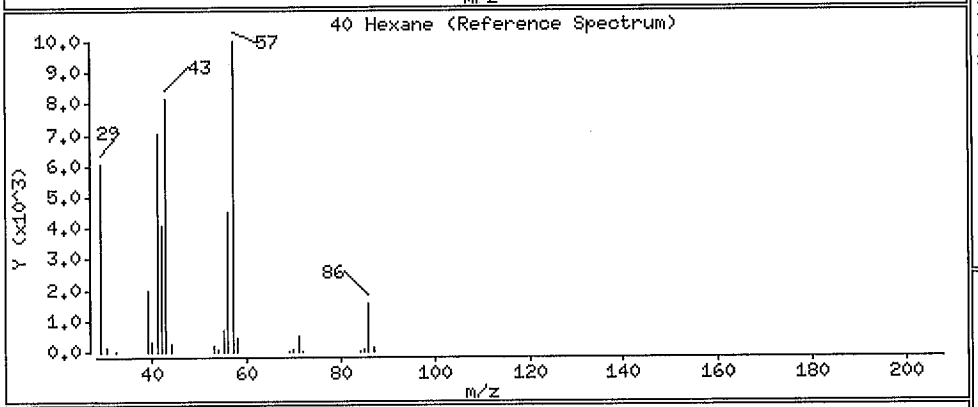
Concentration: 7.406 ppb(v/v)

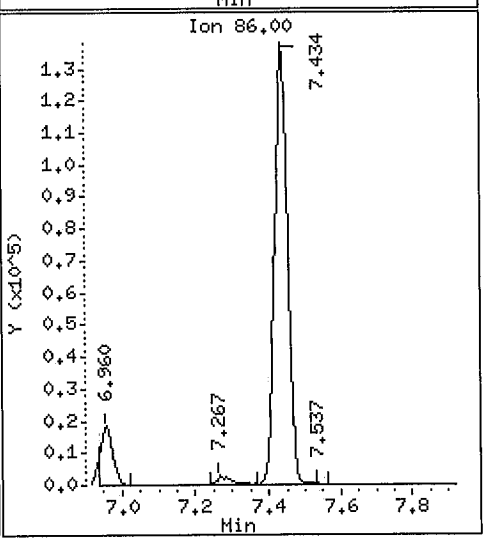


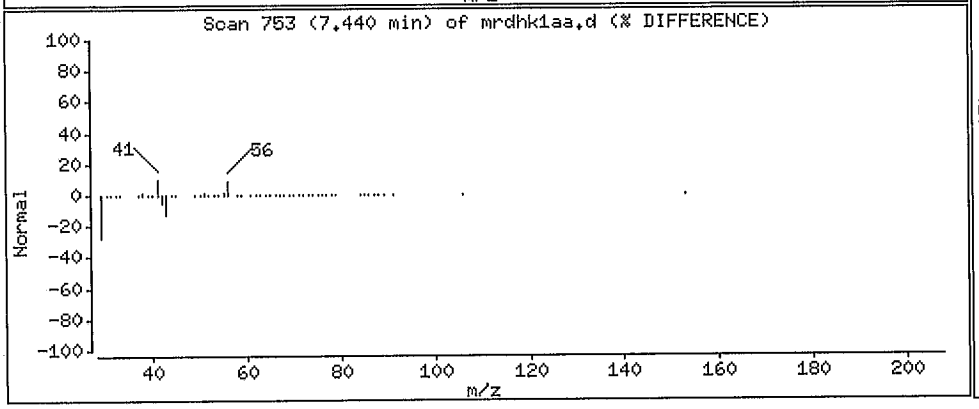












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

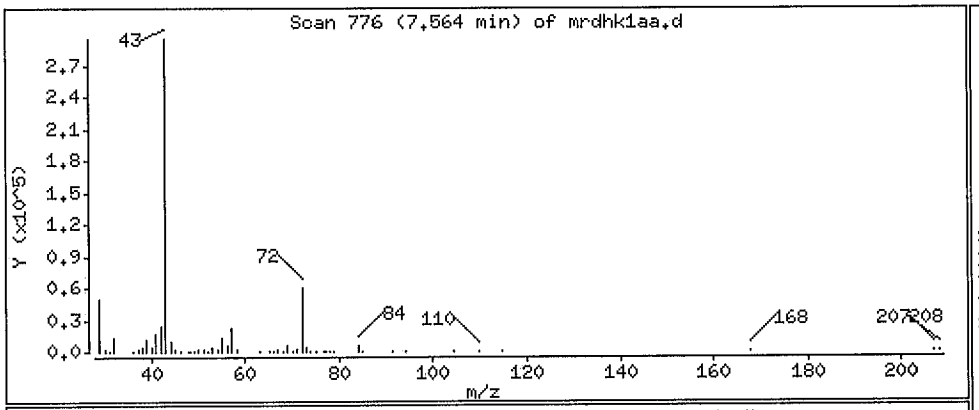
Operator: 7126

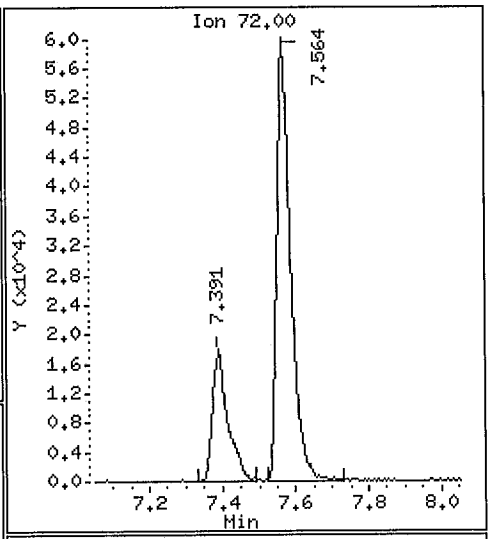
Column phase: Rtx-5

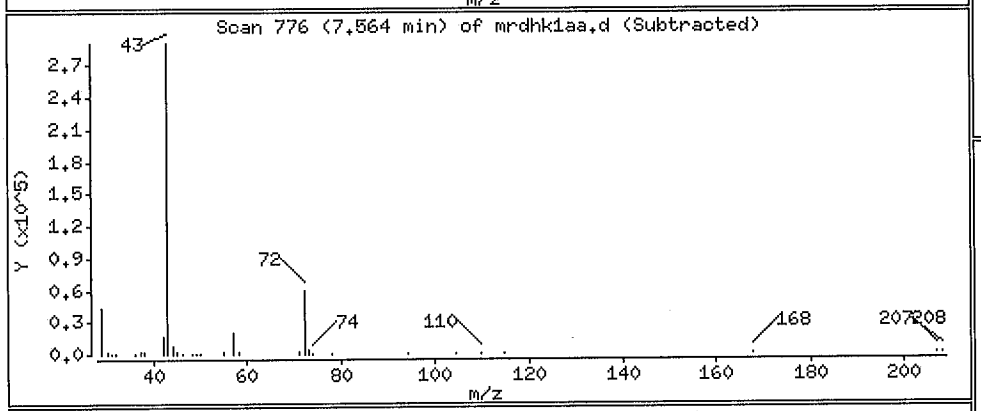
Column diameter: 0.32

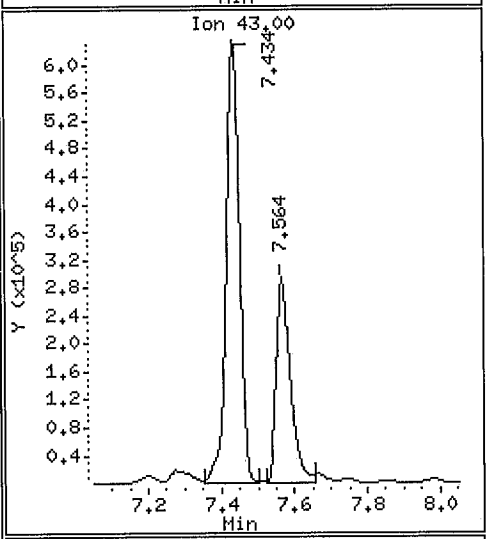
39 2-Butanone

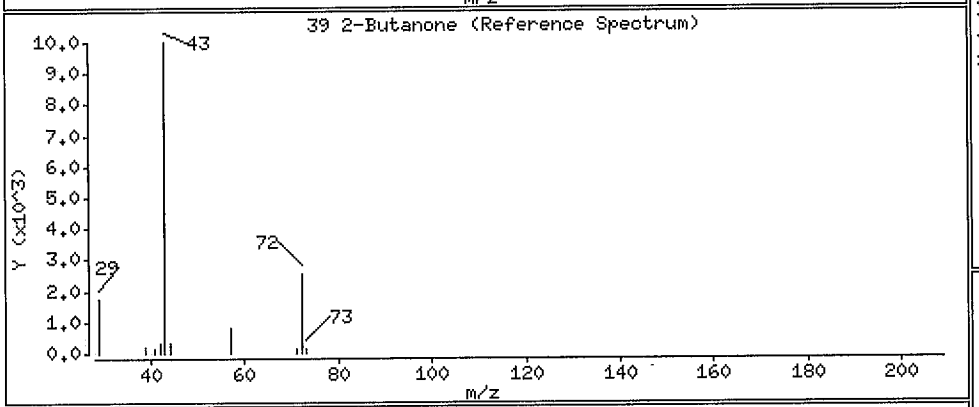
Concentration: 2.014 ppb(v/v)

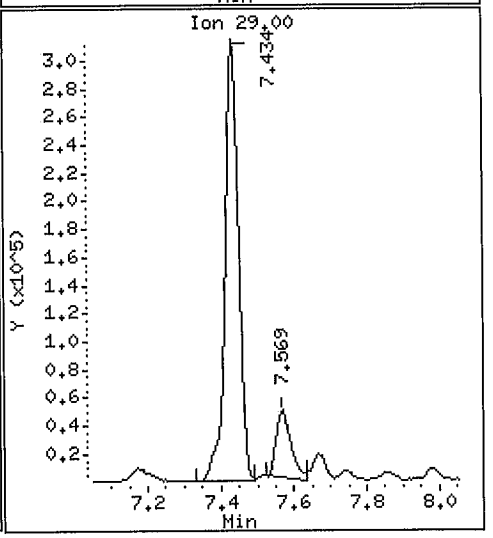


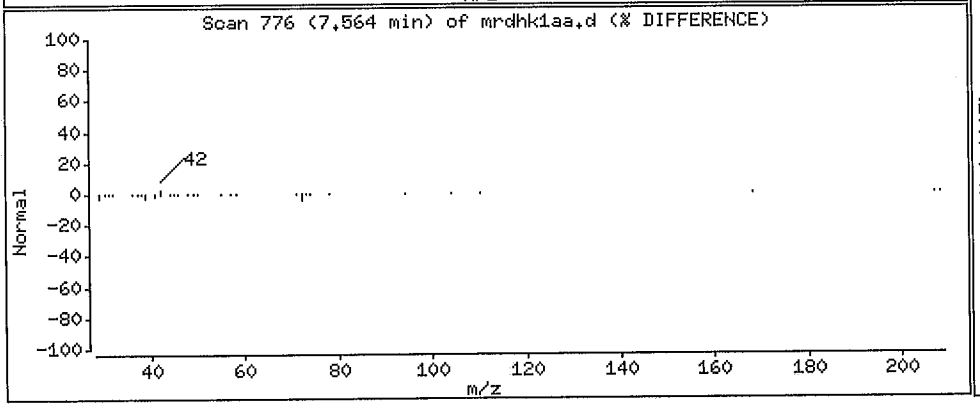












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

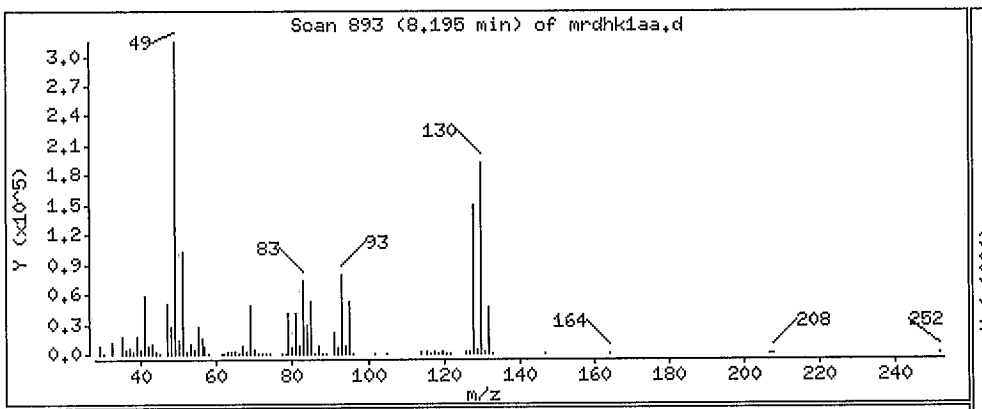
Operator: 7126

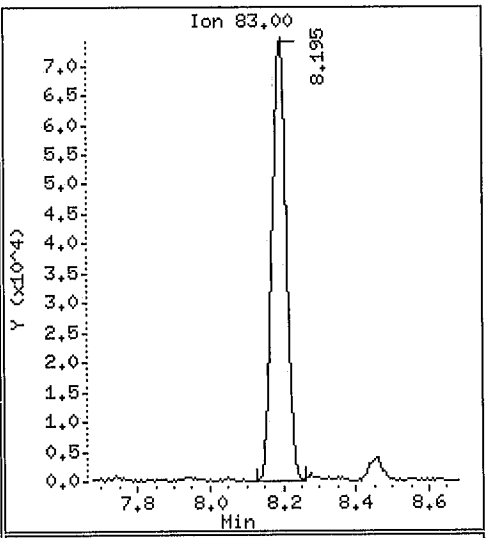
Column phase: Rtx-5

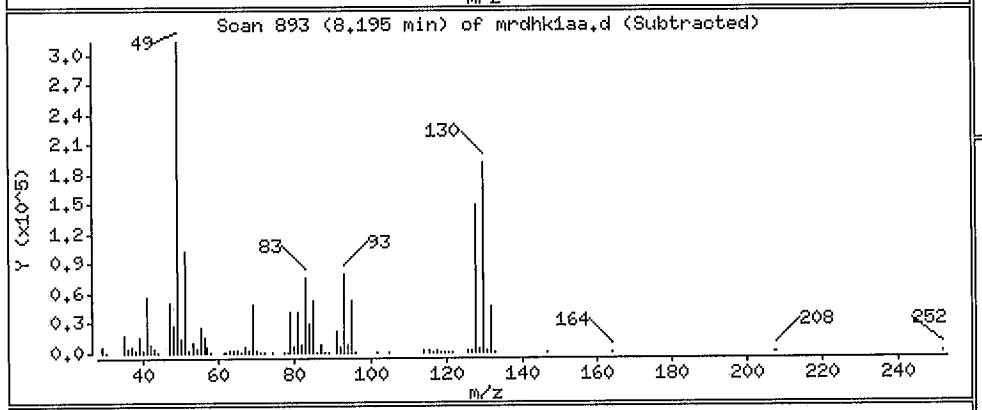
Column diameter: 0.32

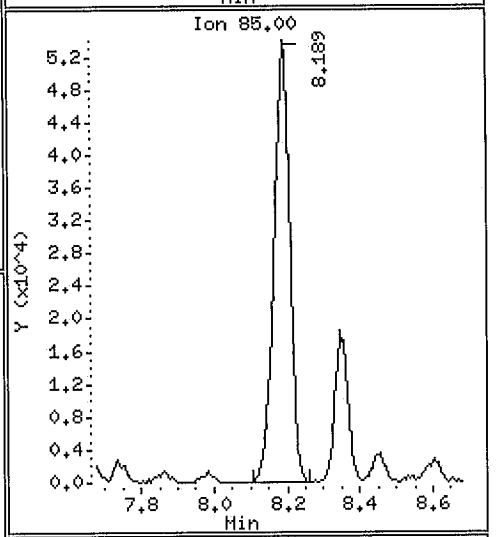
43 Chloroform

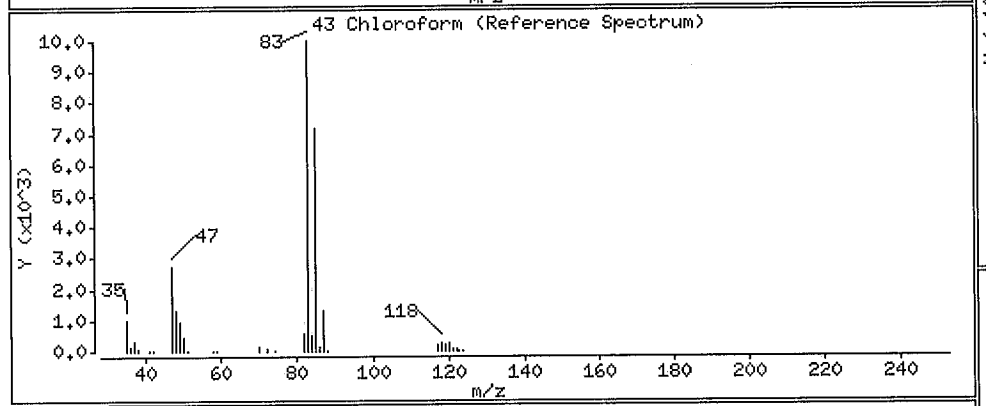
Concentration: 0.4709 ppb(v/v)

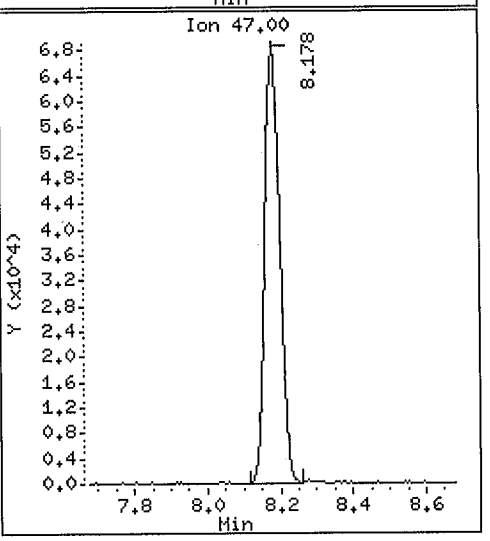


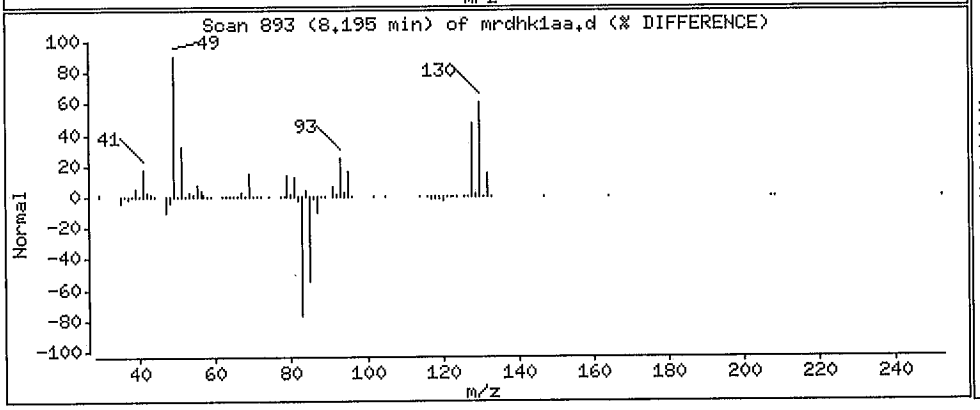












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

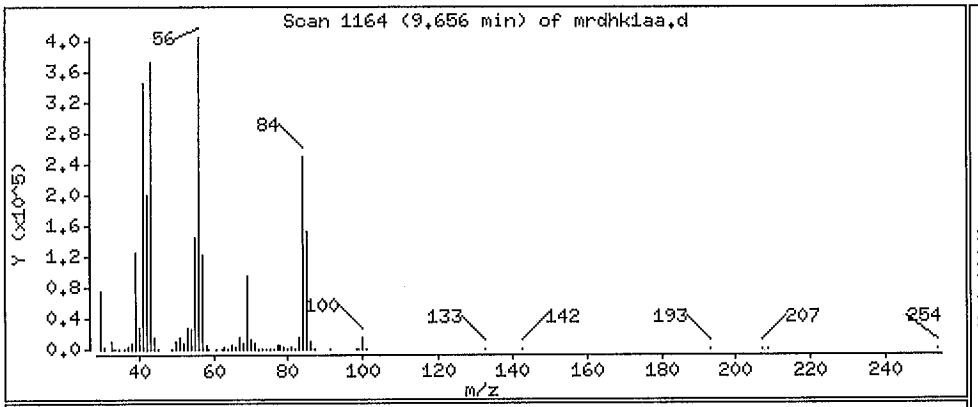
Operator: 7126

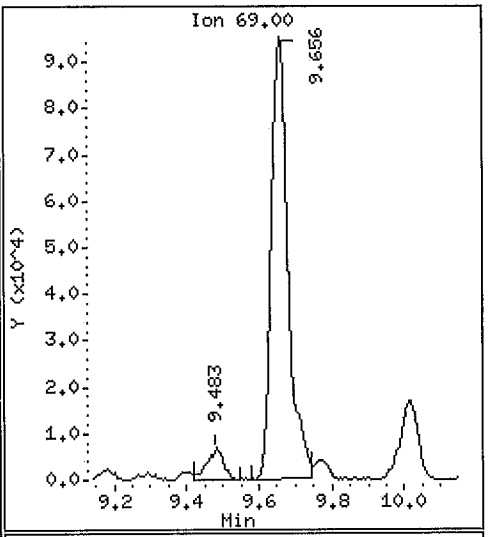
Column phase: Rtx-5

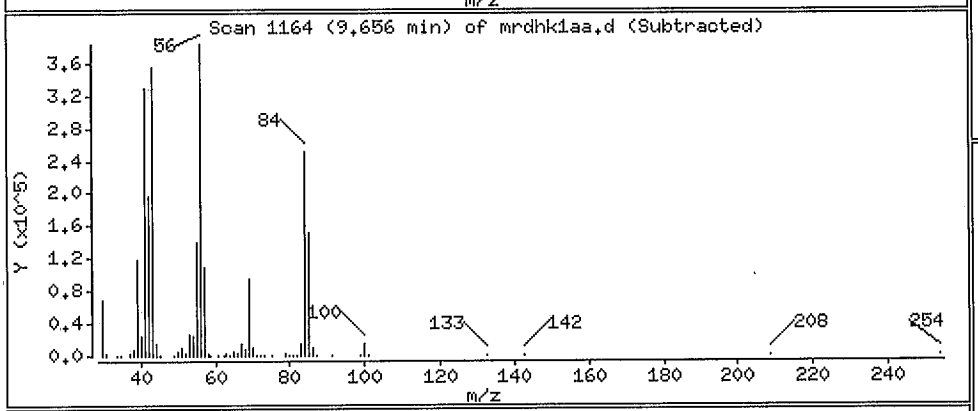
Column diameter: 0.32

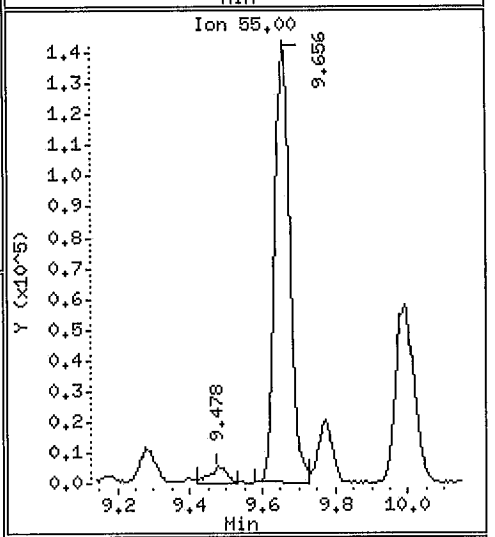
49 Cyclohexane

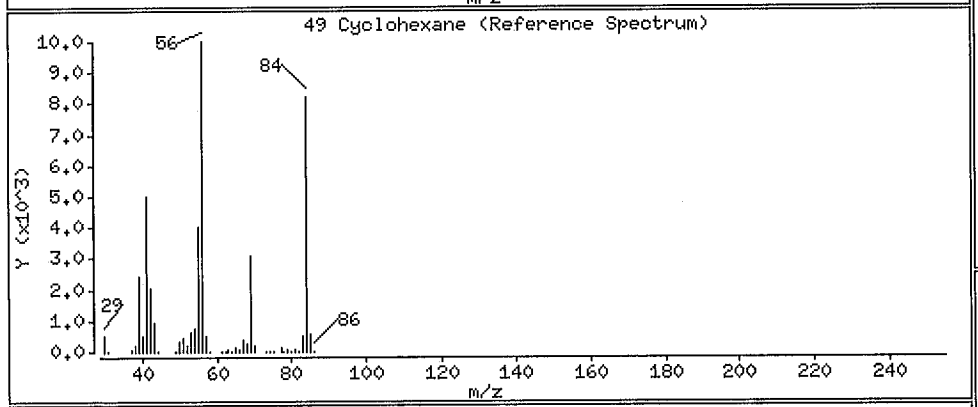
Concentration: 2.716 ppb(v/v)

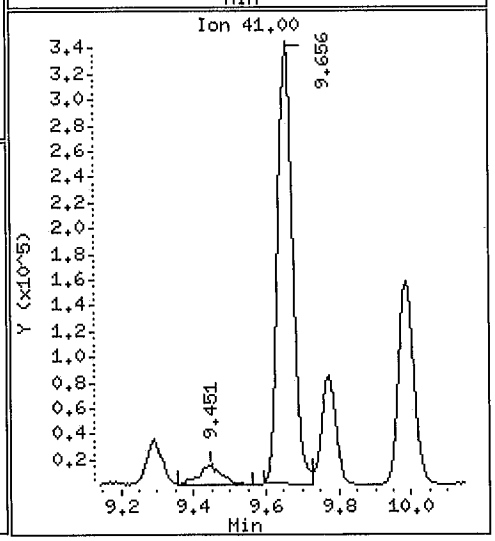


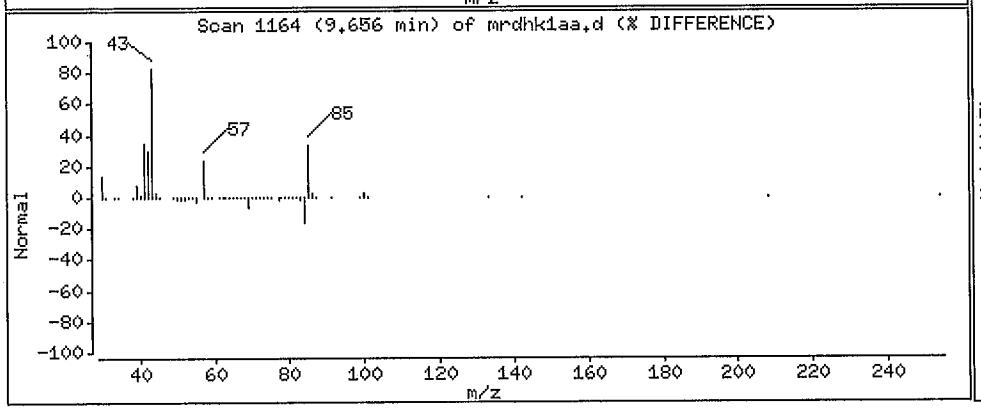












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

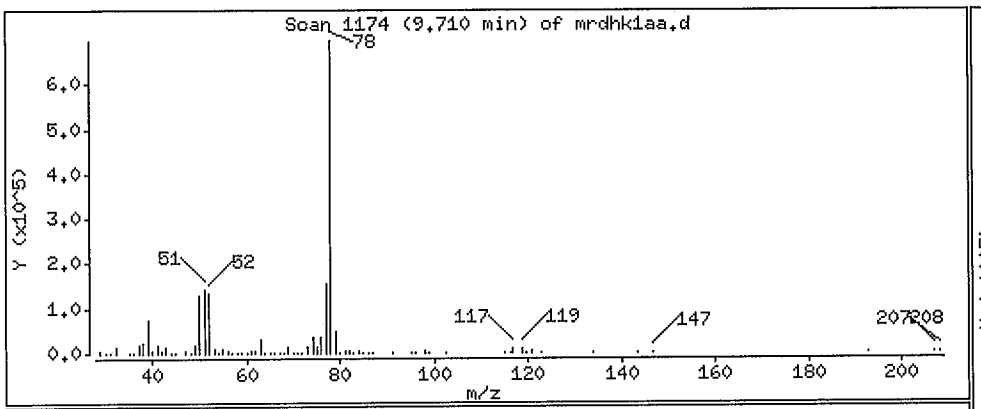
Operator: 7126

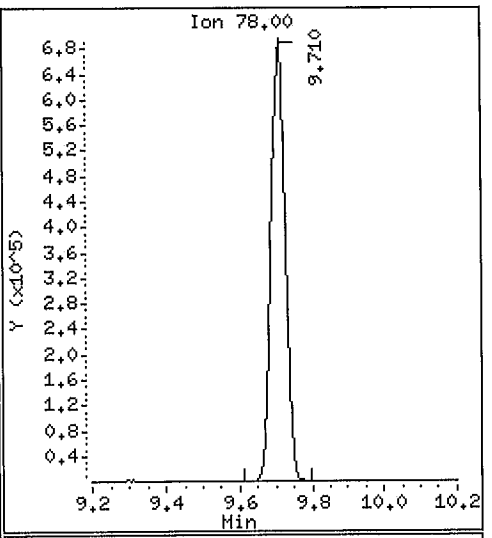
Column phase: Rtx-5

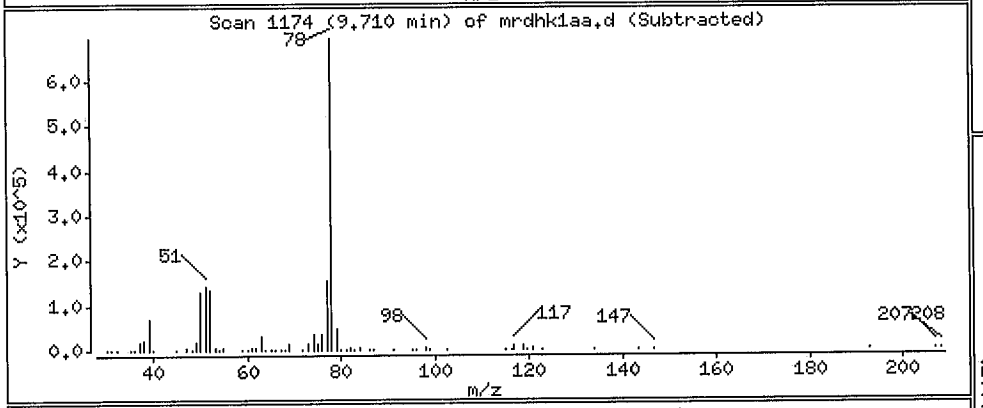
Column diameter: 0.32

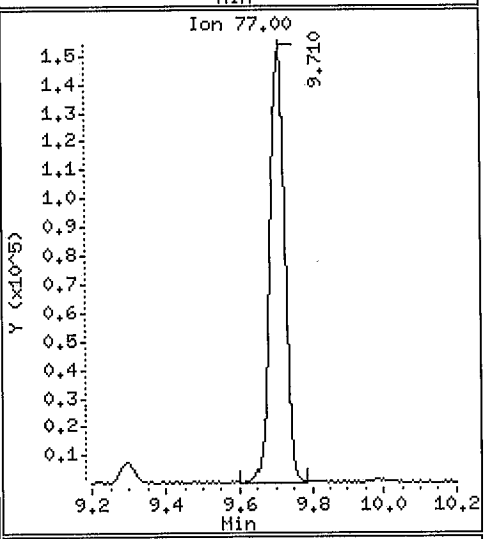
48 Benzene

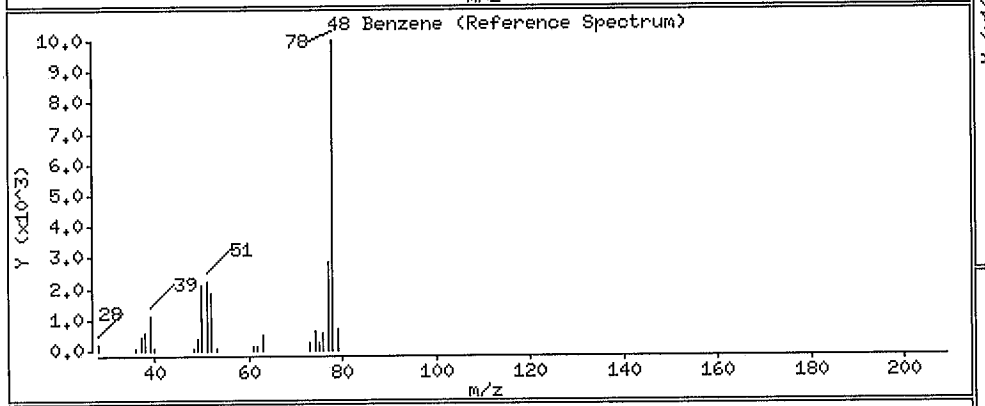
Concentration: 3.186 ppb(v/v)

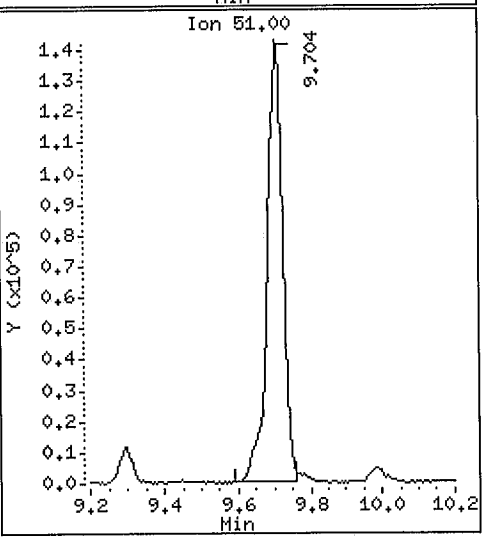


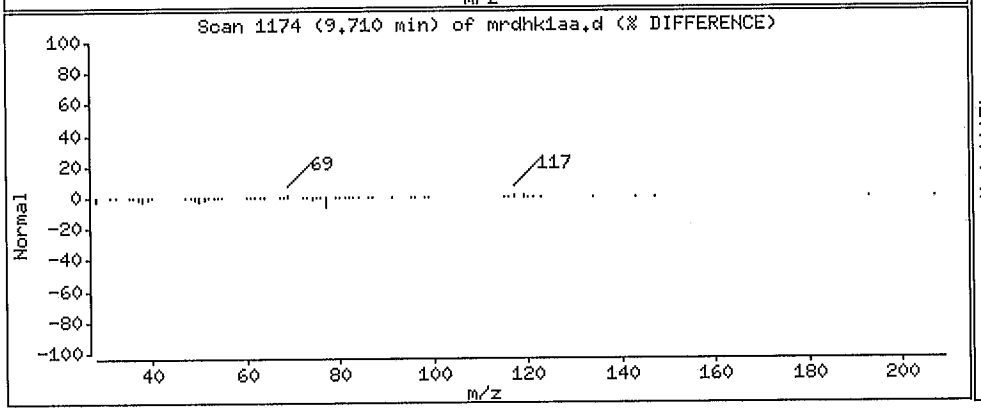












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

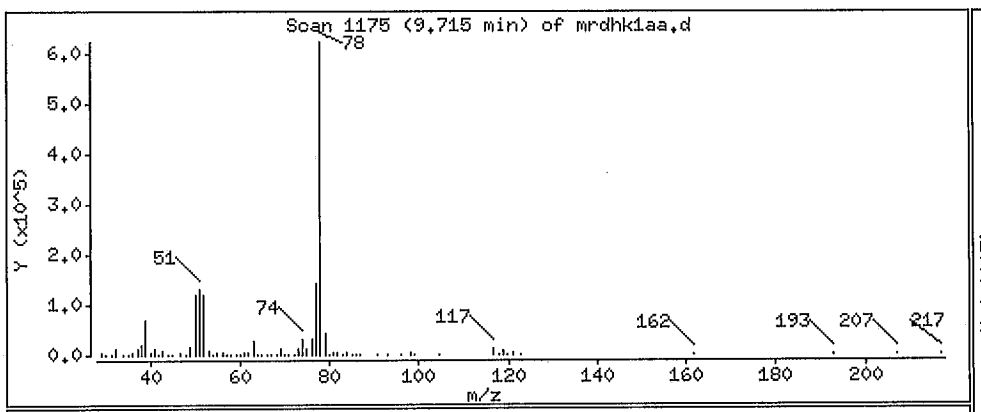
Operator: 7126

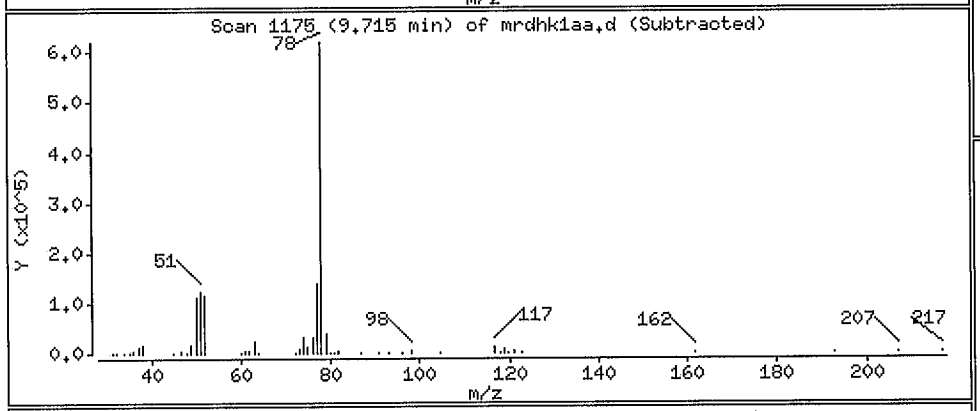
Column phase: Rtx-5

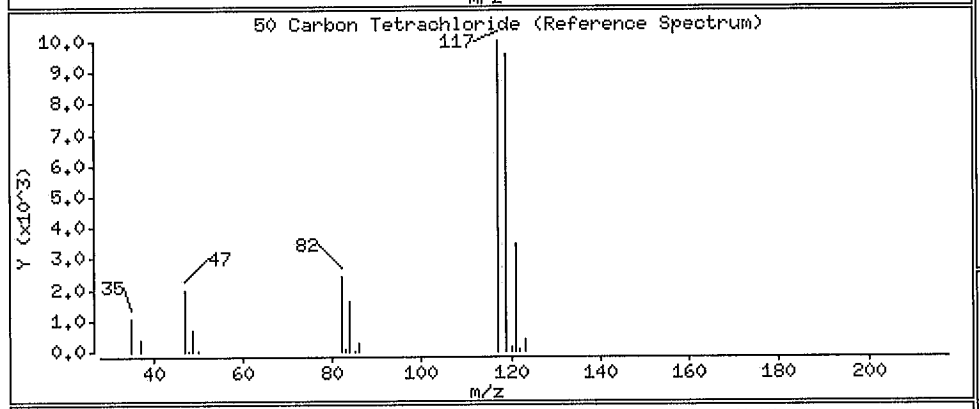
Column diameter: 0.32

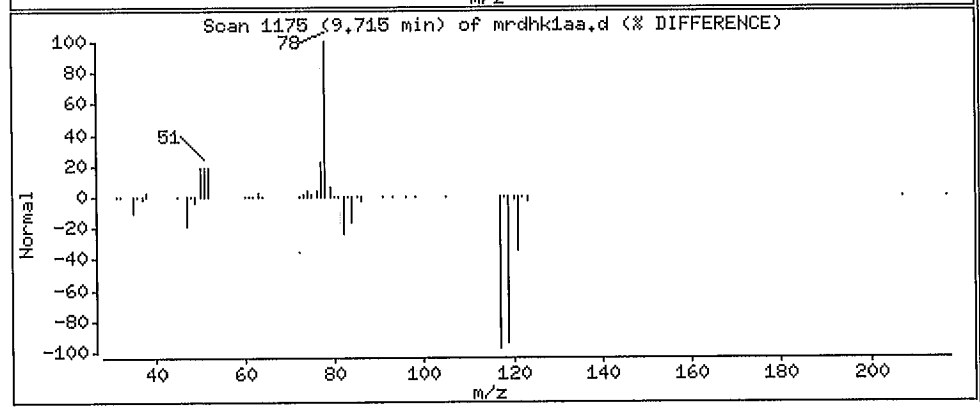
50 Carbon Tetrachloride

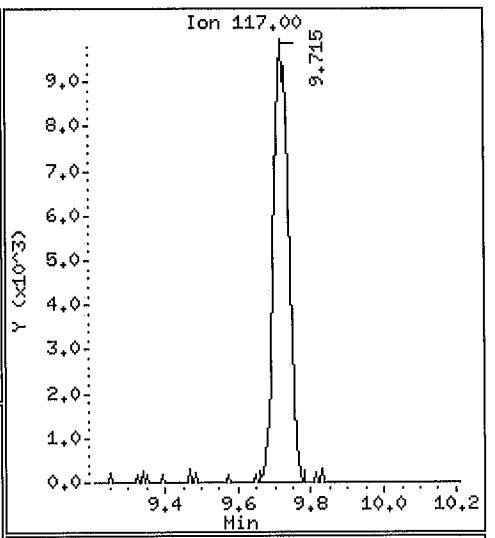
Concentration: 0.05620 ppb(v/v)

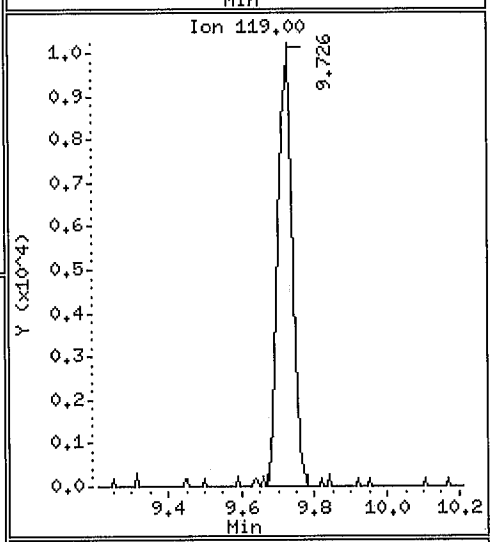


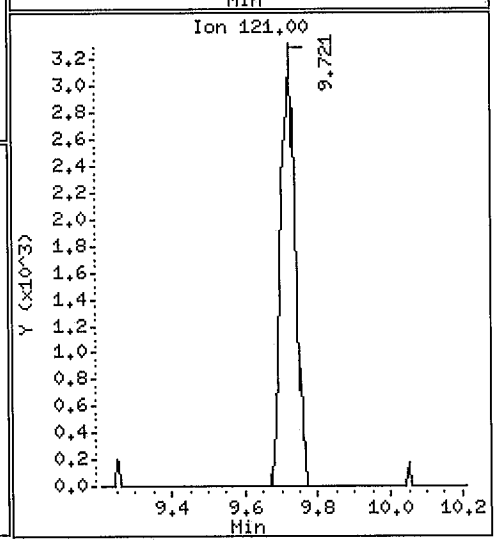












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

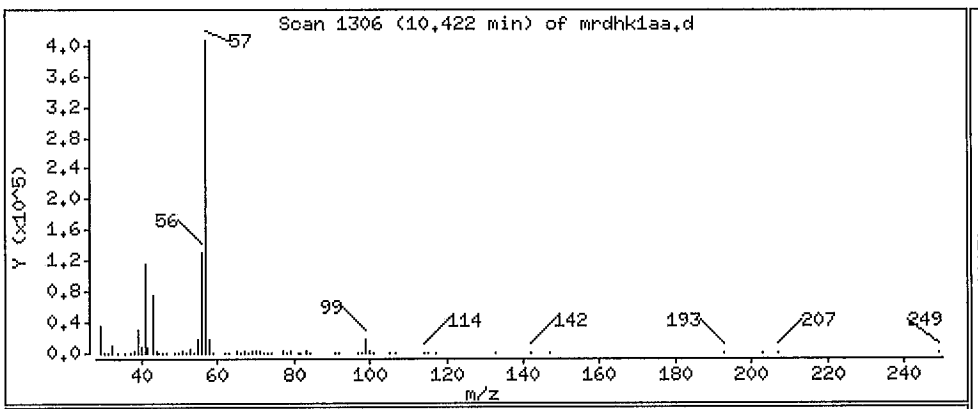
Operator: 7126

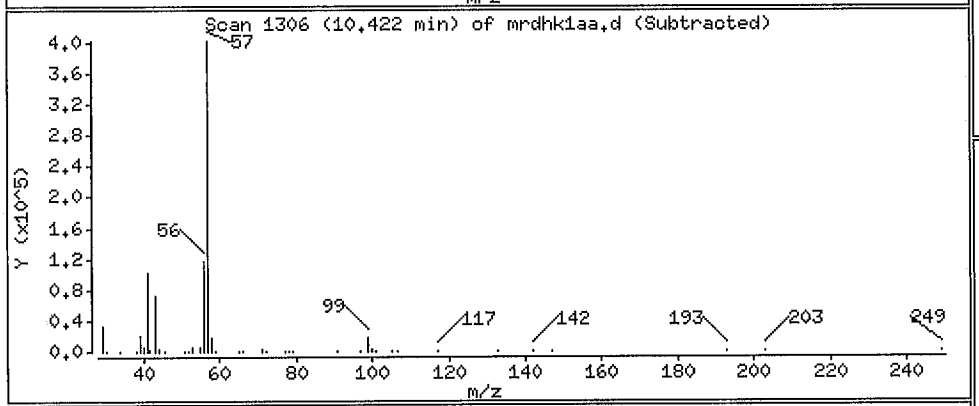
Column phase: Rtx-5

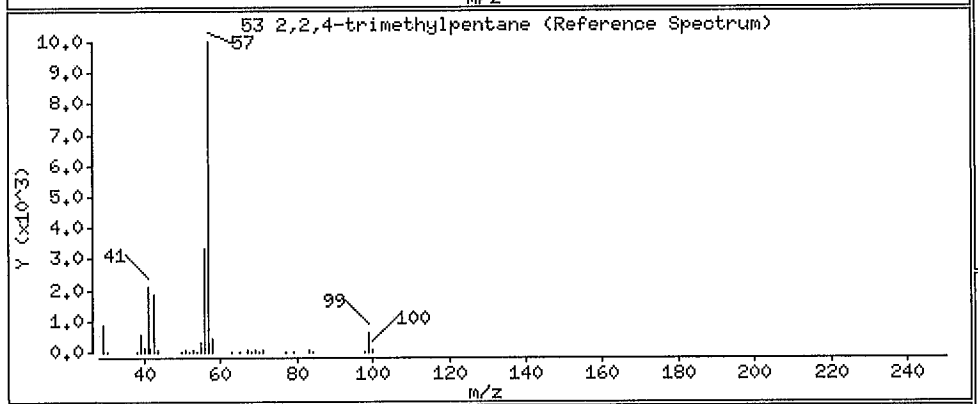
Column diameter: 0.32

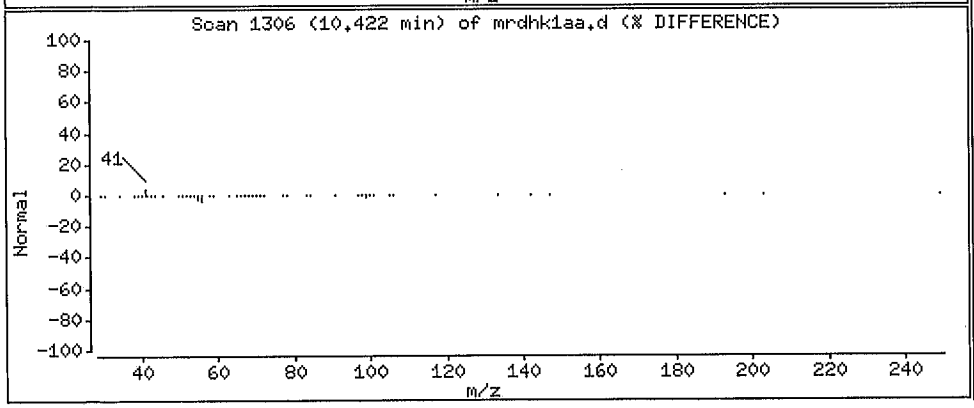
53 2,2,4-trimethylpentane

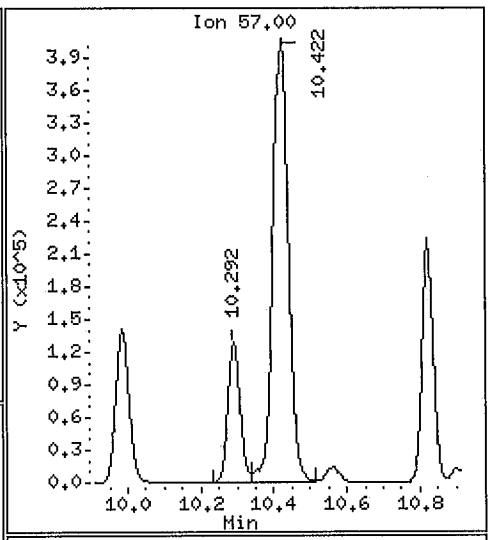
Concentration: 1.226 ppb(v/v)

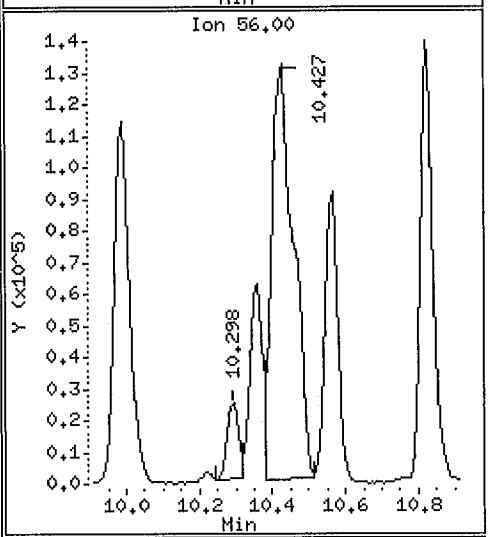


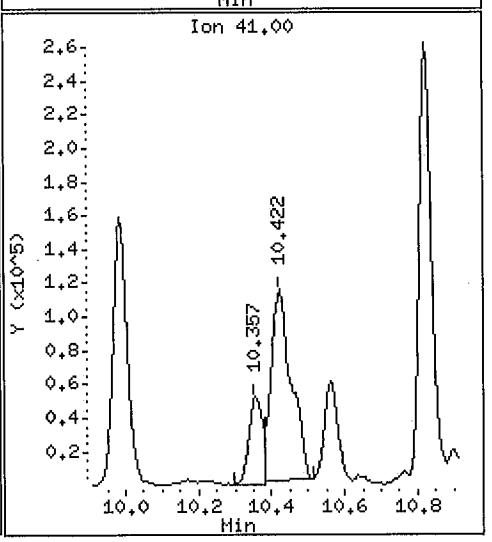












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

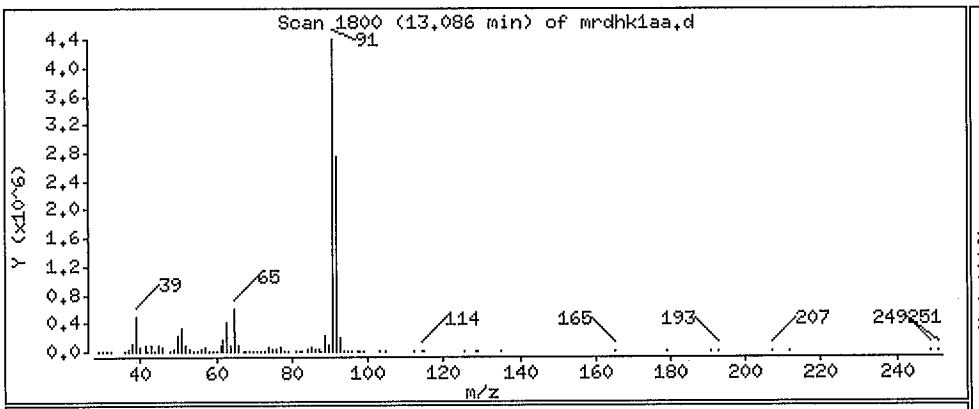
Operator: 7126

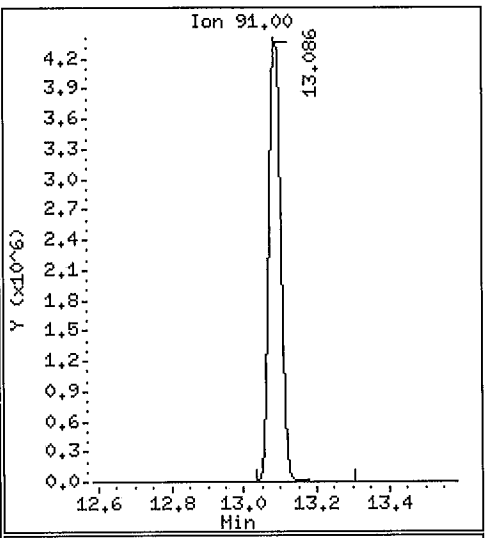
Column phase: Rtx-5

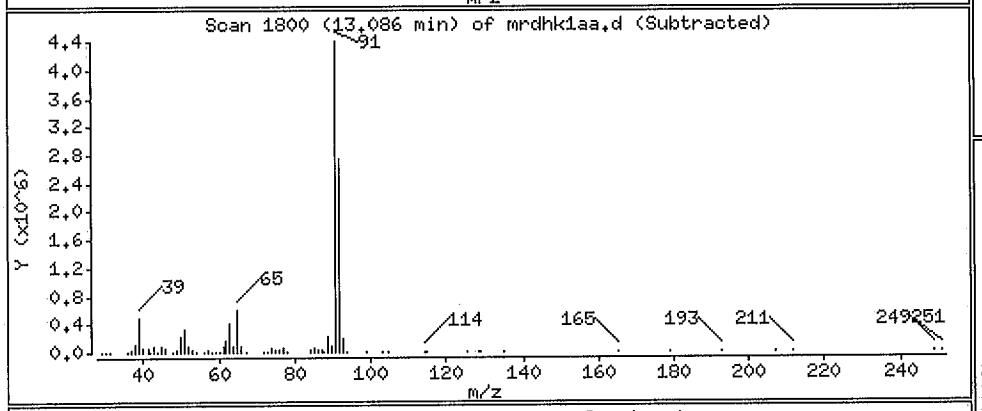
Column diameter: 0.32

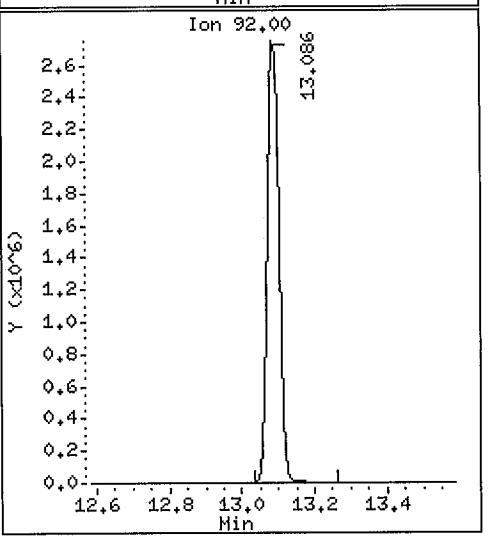
65 Toluene

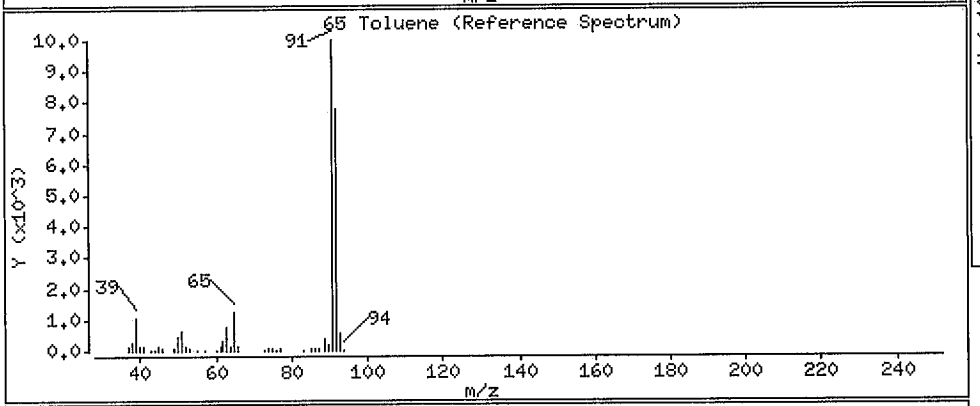
Concentration: 12.64 ppb(v/v)

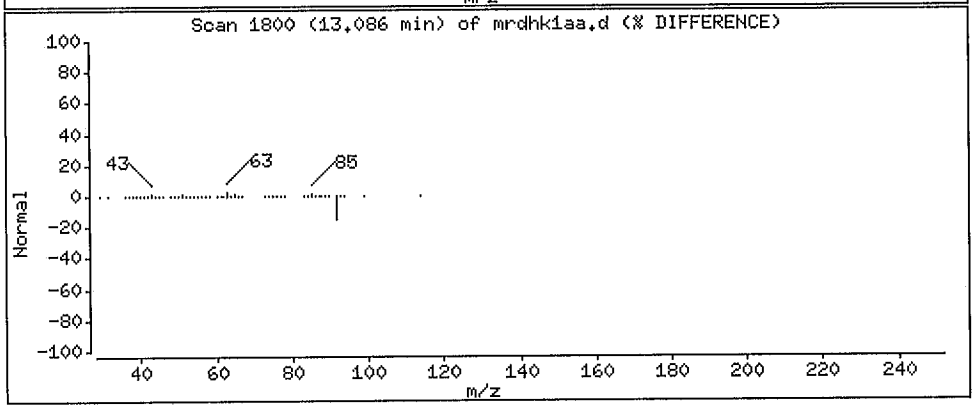












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

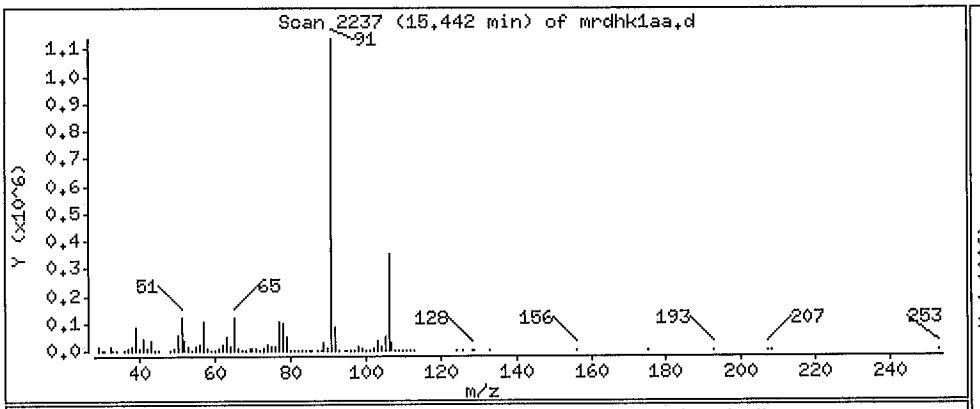
Operator: 7126

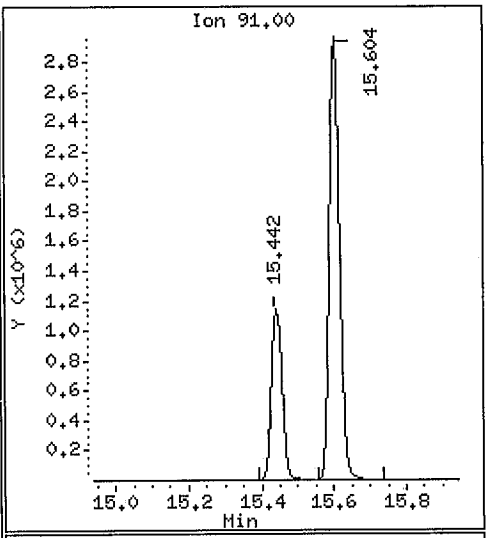
Column phase: Rtx-5

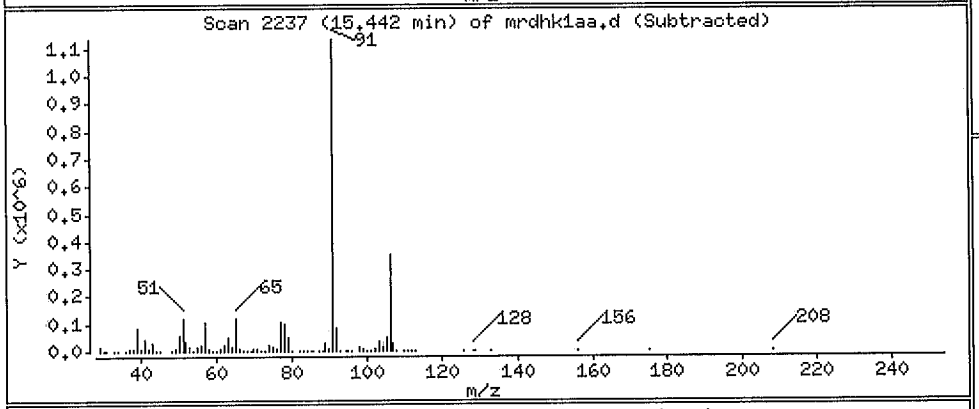
Column diameter: 0.32

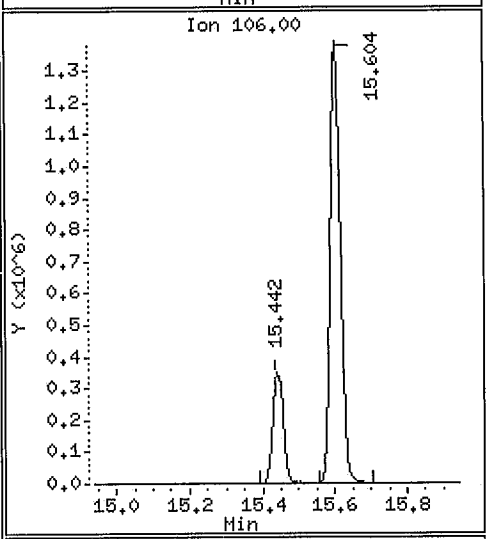
76 Ethylbenzene

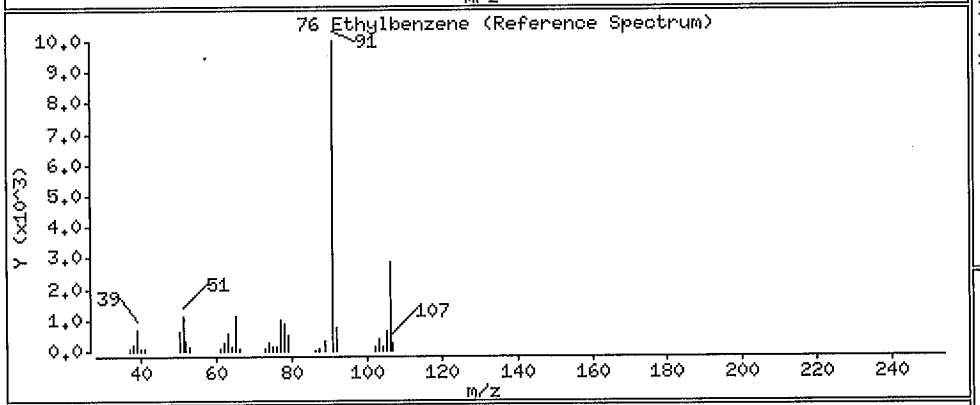
Concentration: 2.326 ppb(v/v)

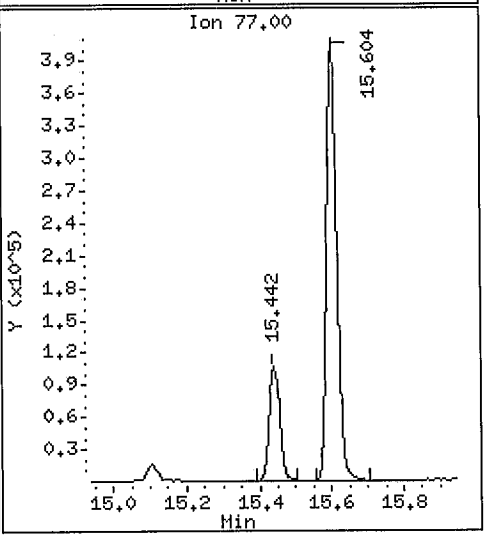


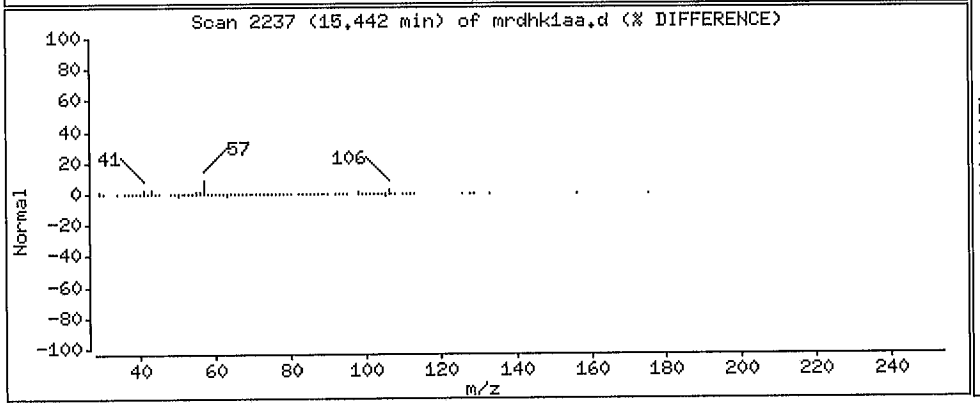












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

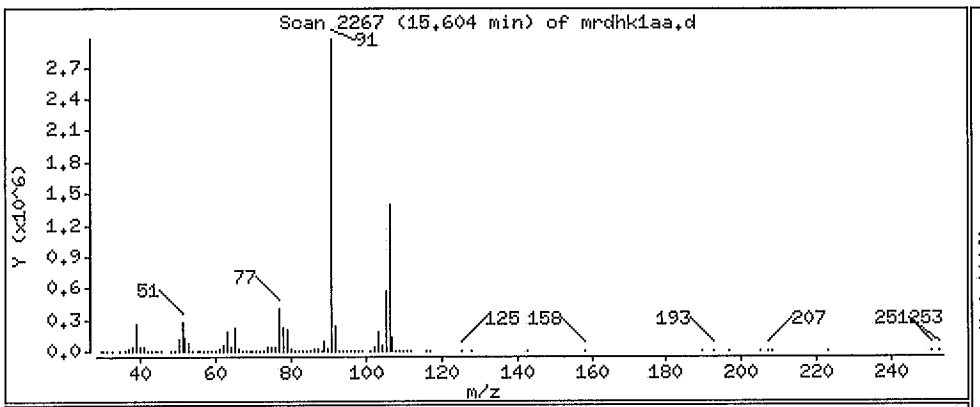
Operator: 7126

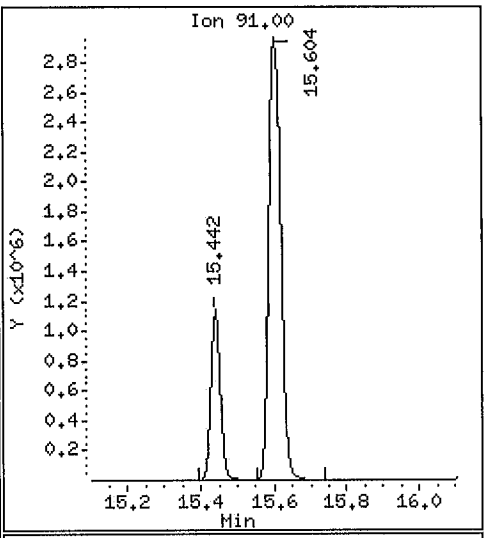
Column phase: Rtx-5

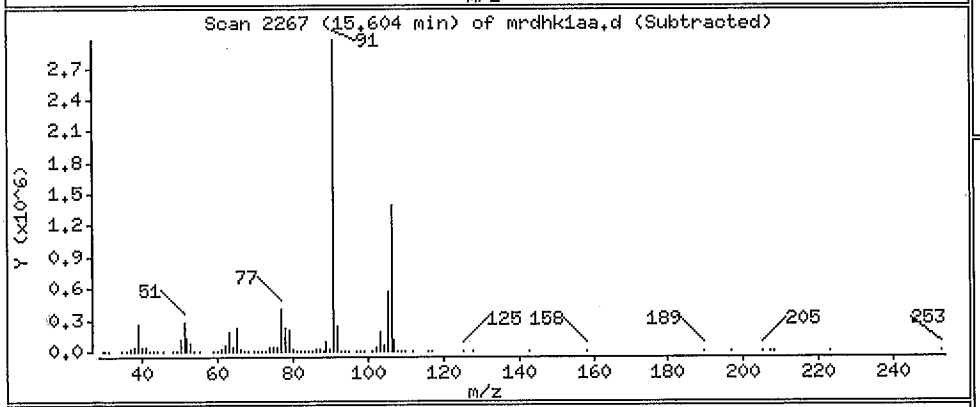
Column diameter: 0.32

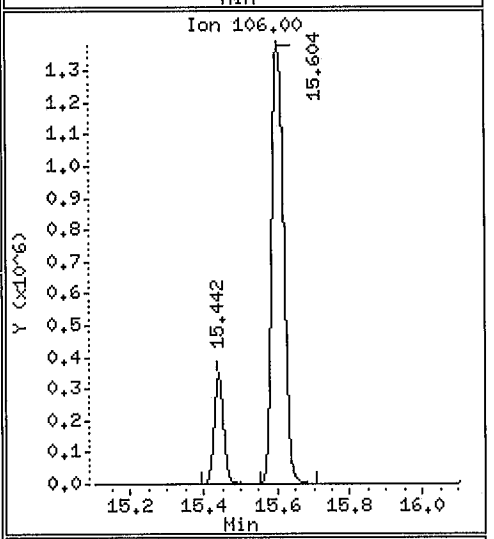
78 m&p-Xylene

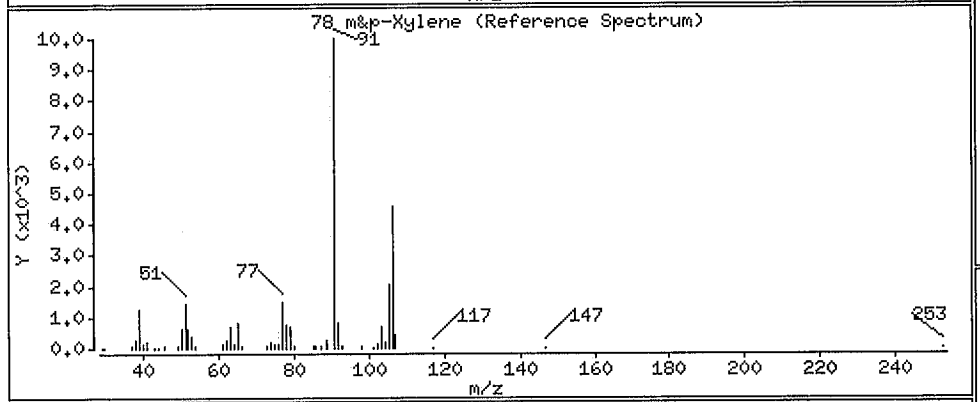
Concentration: 8.730 ppb(v/v)

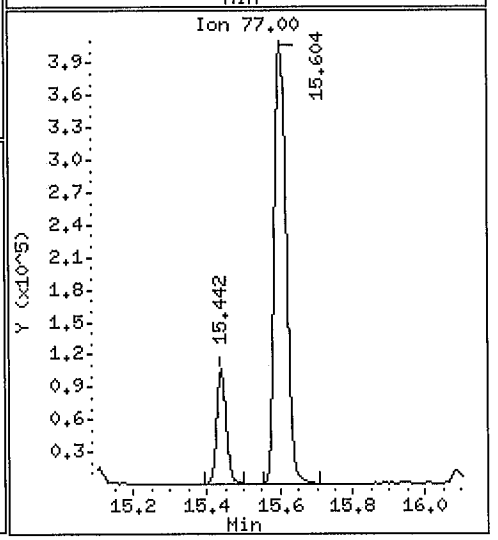


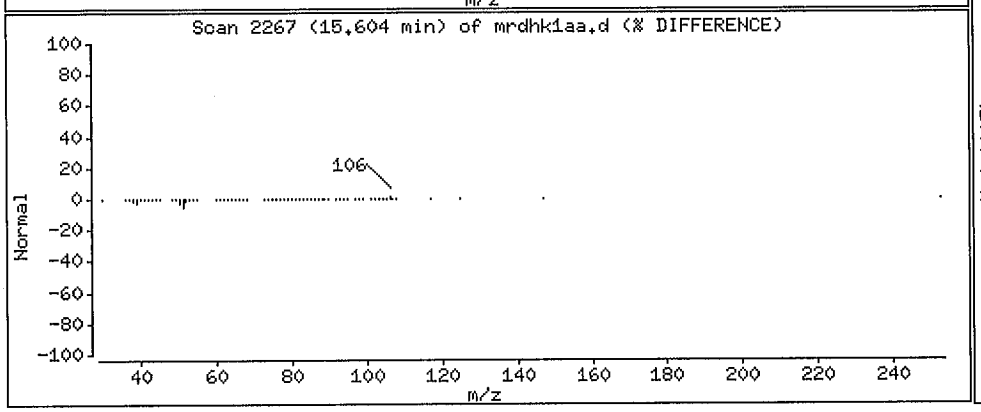












Data File: /var/chem/goms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

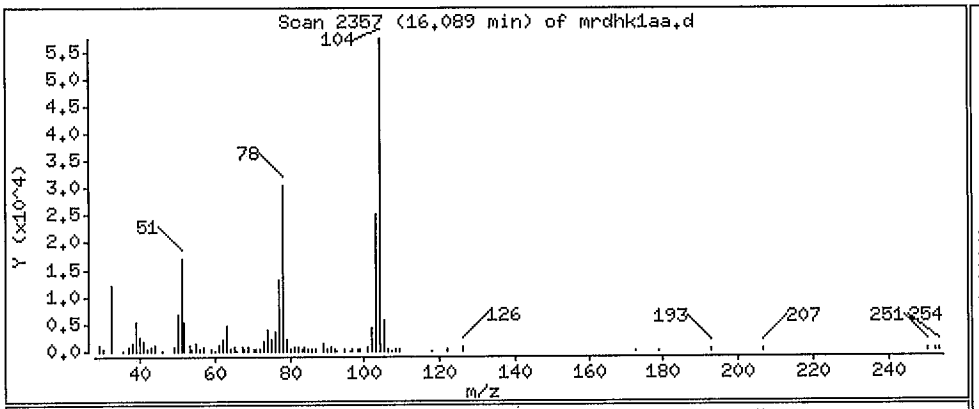
Operator: 7126

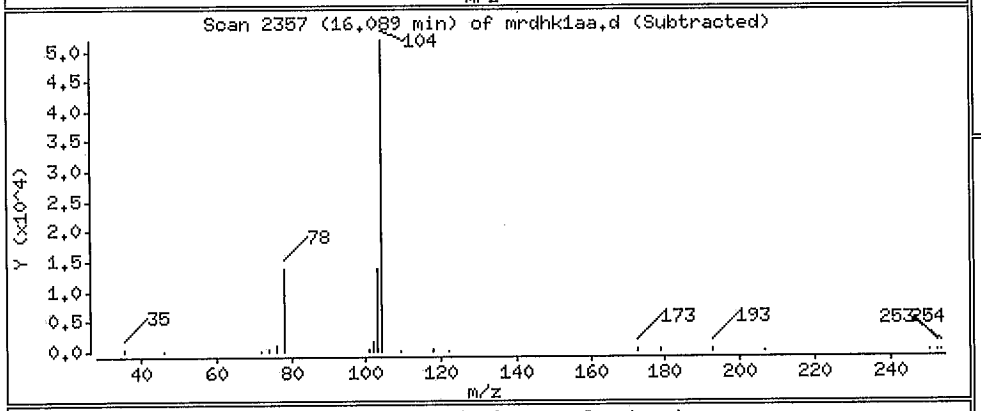
Column phase: Rtx-5

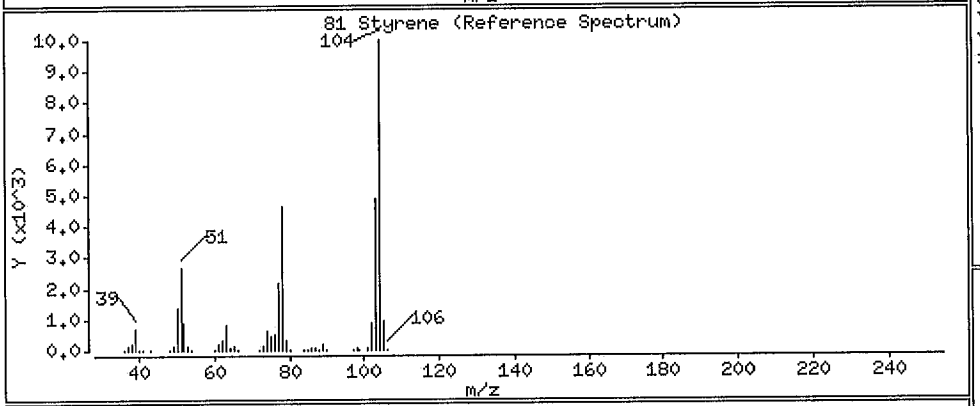
Column diameter: 0.32

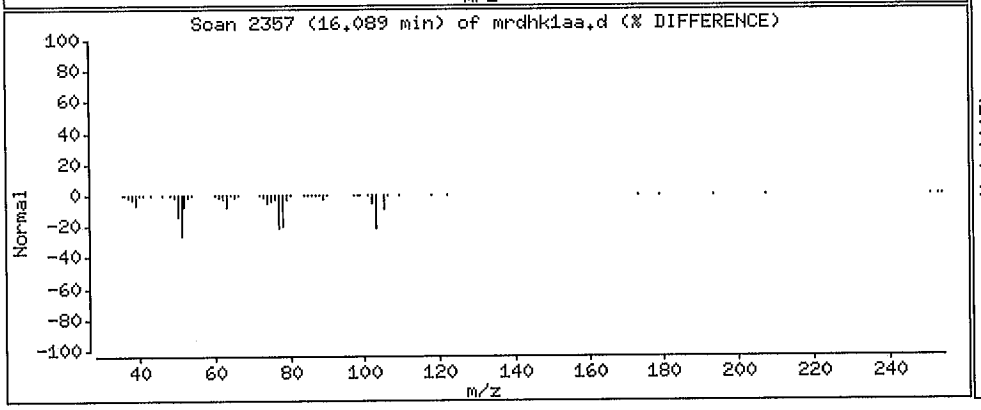
81 Styrene

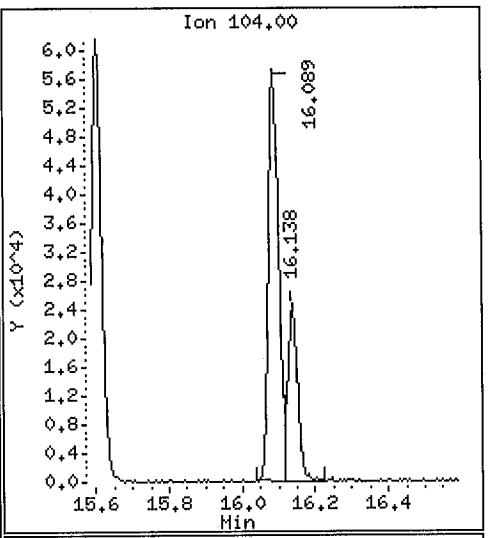
Concentration: 0.1951 ppb(v/v)

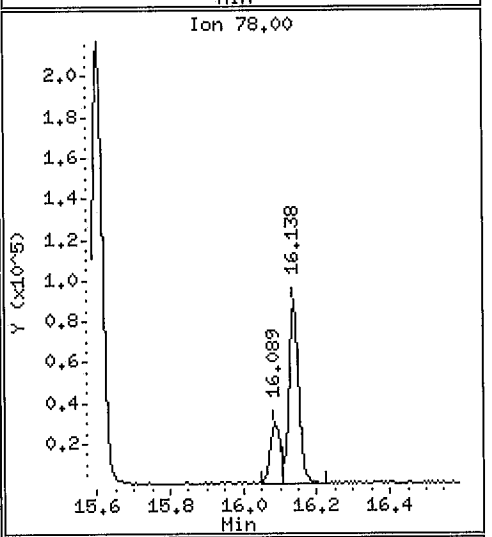


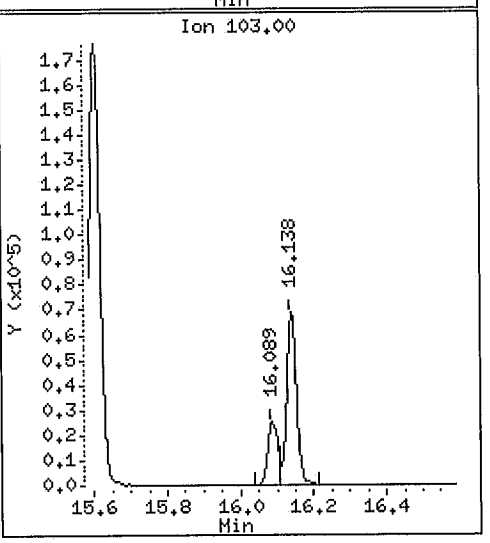












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

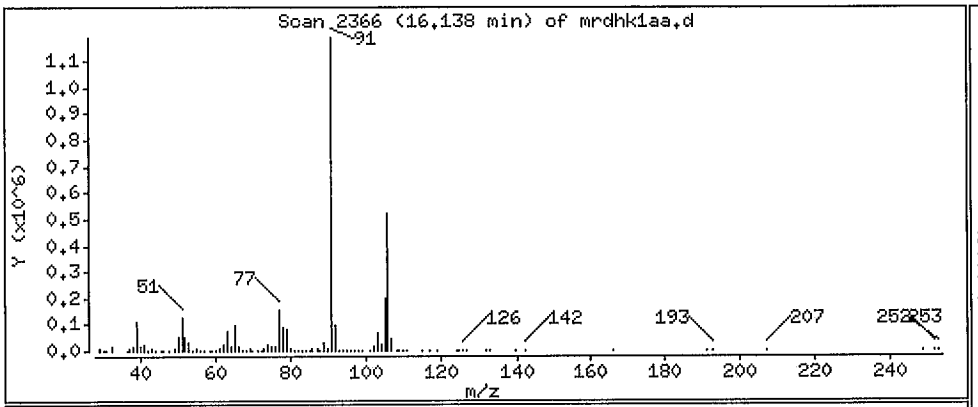
Operator: 7126

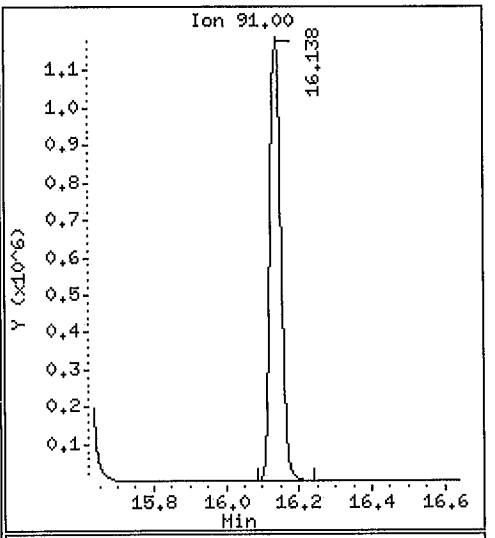
Column phase: Rtx-5

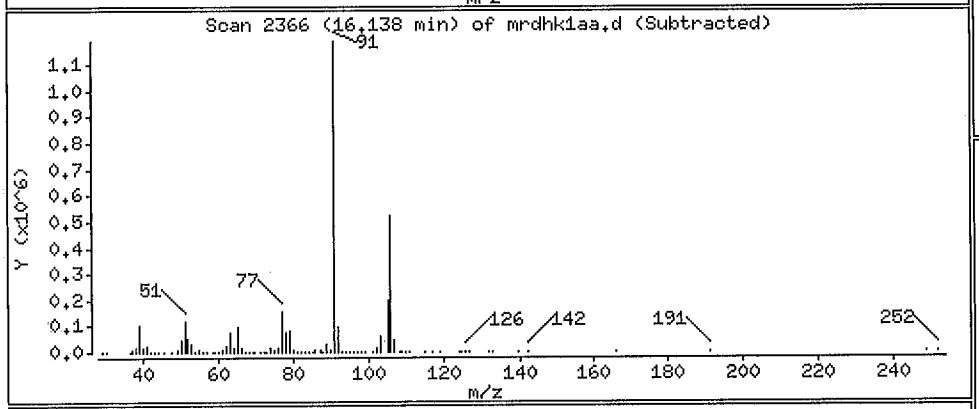
Column diameter: 0.32

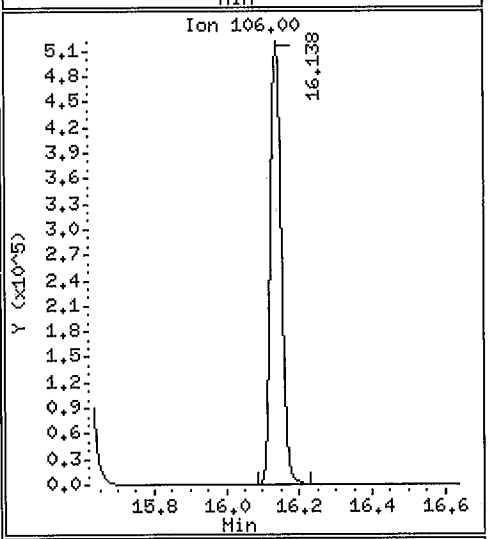
82 o-Xylene

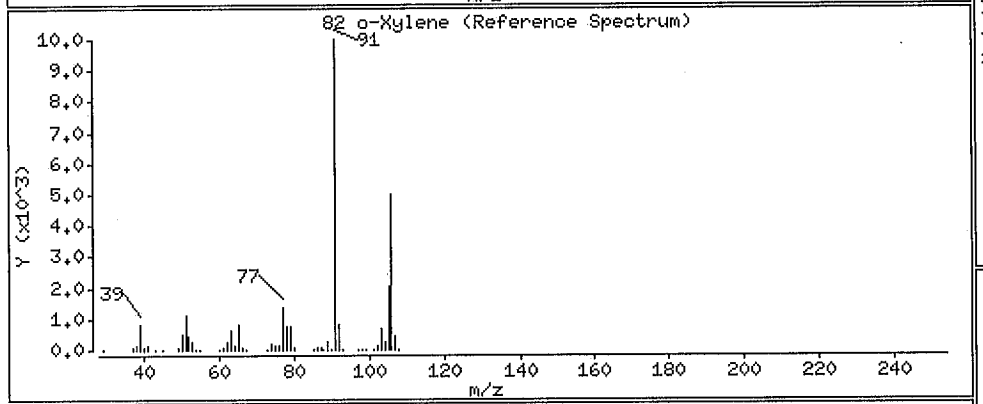
Concentration: 3.045 ppb(v/v)

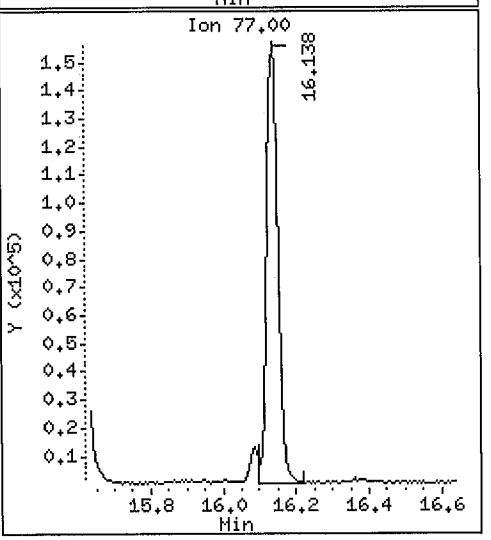


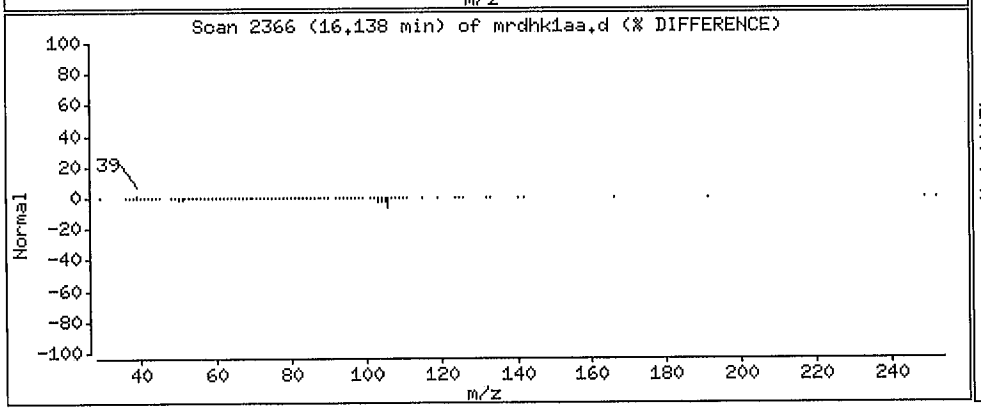












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

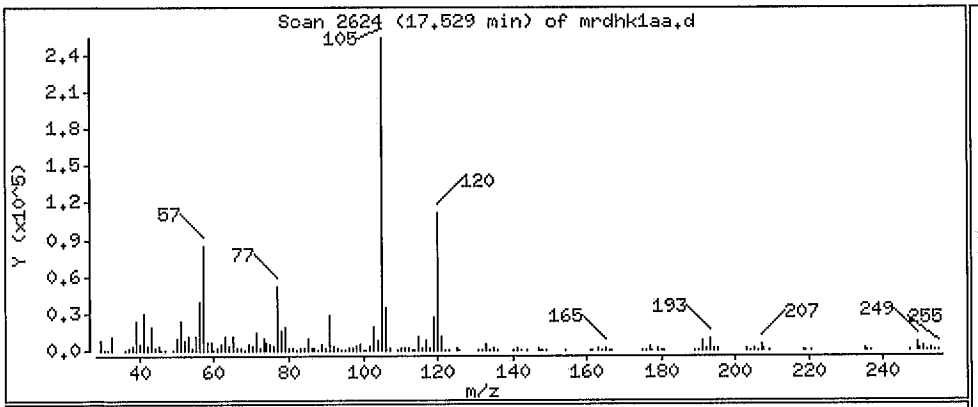
Operator: 7126

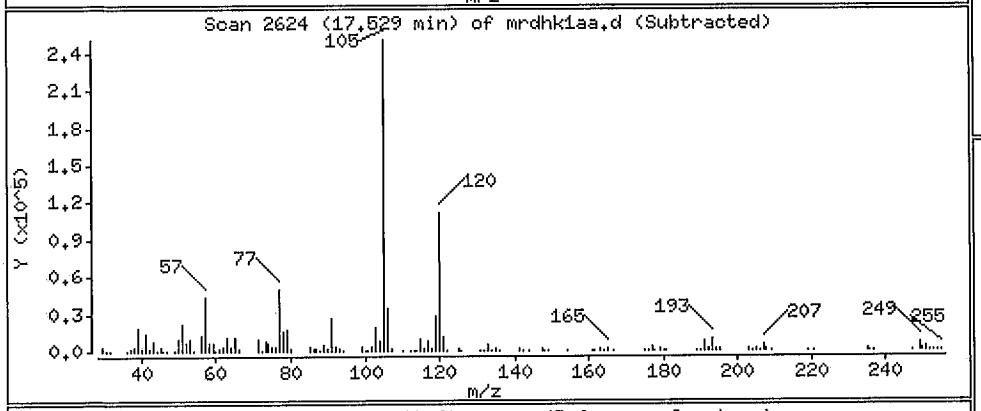
Column phase: Rtx-5

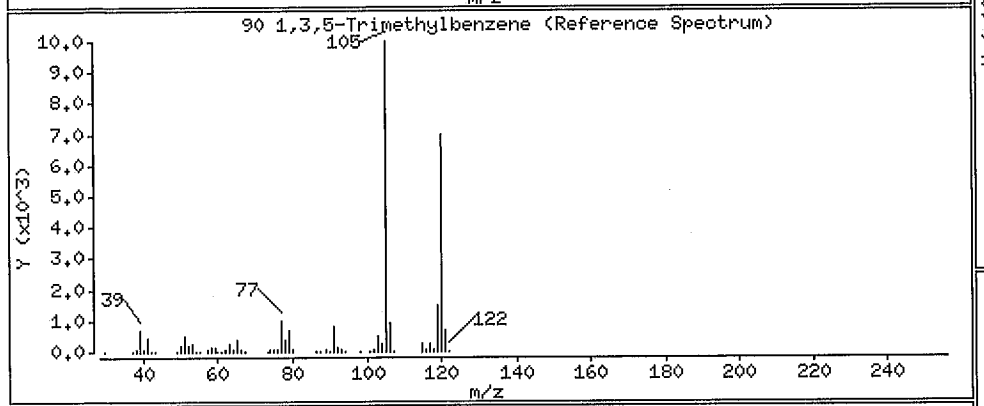
Column diameter: 0.32

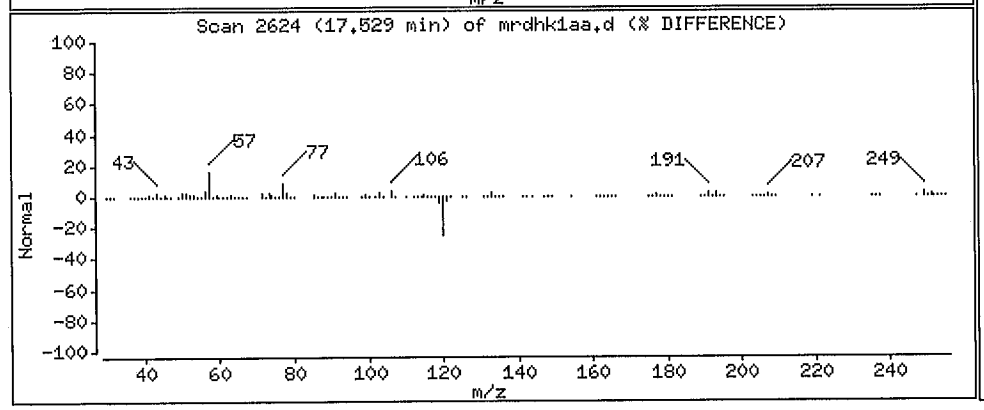
90 1,3,5-Trimethylbenzene

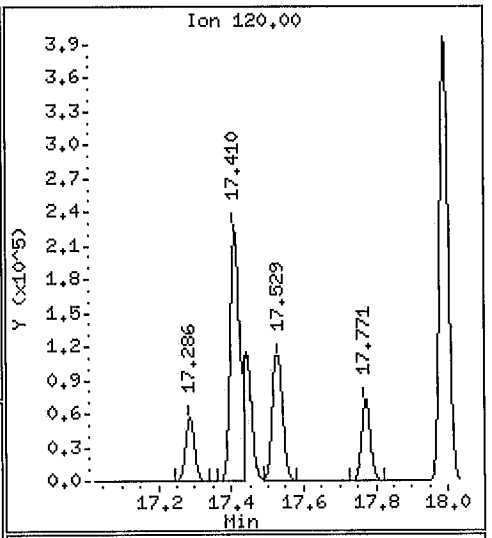
Concentration: 0.4354 ppb(v/v)

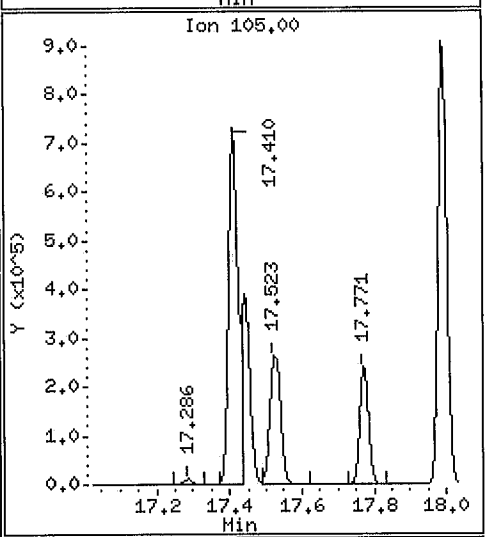


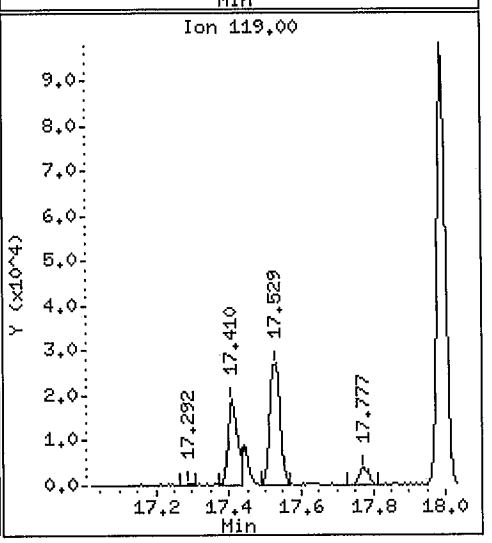












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

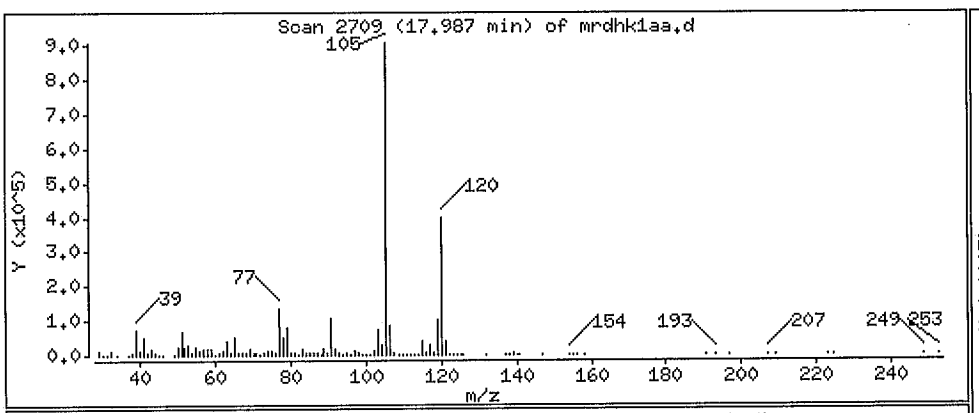
Operator: 7126

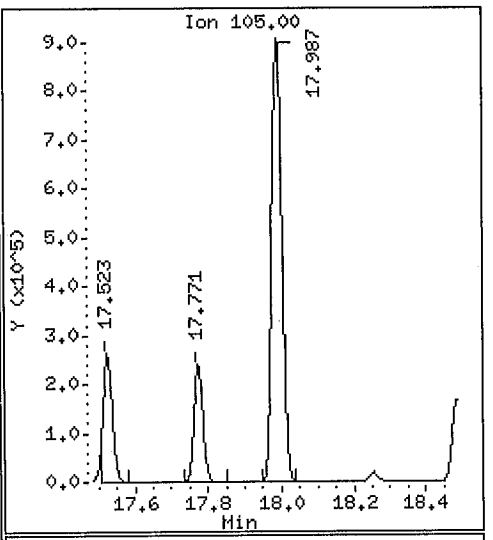
Column phase: Rtx-5

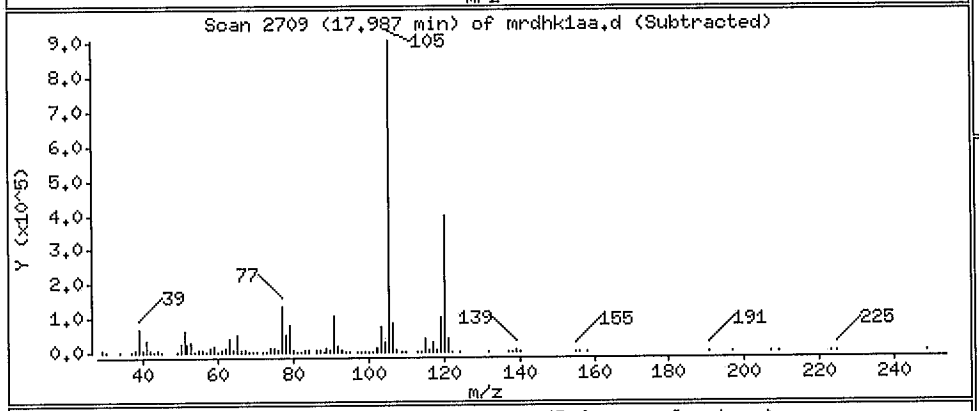
Column diameter: 0.32

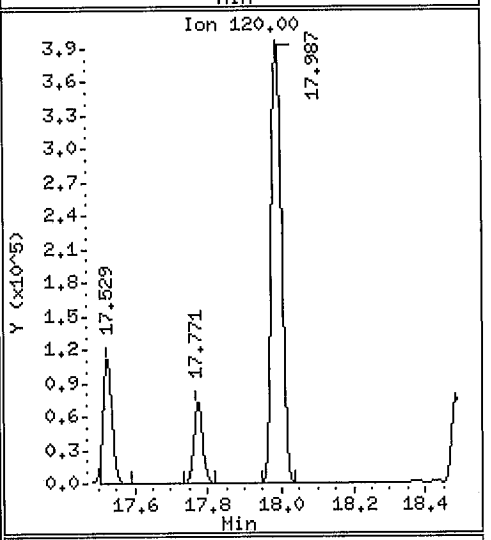
94 1,2,4-Trimethylbenzene

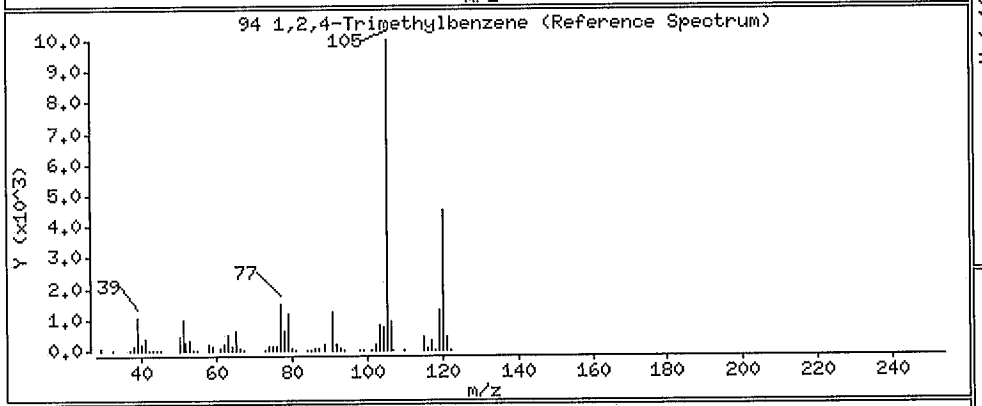
Concentration: 1.872 ppb(v/v)

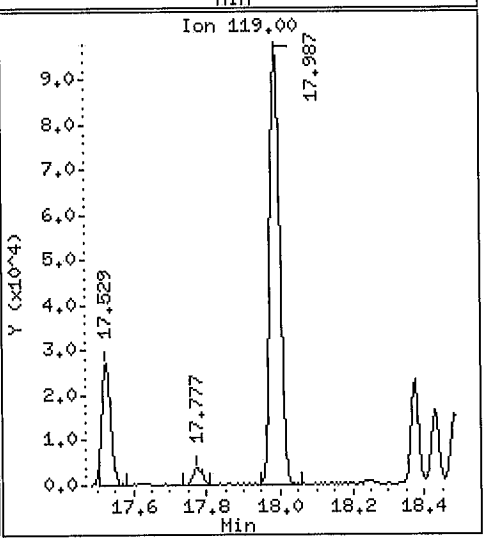


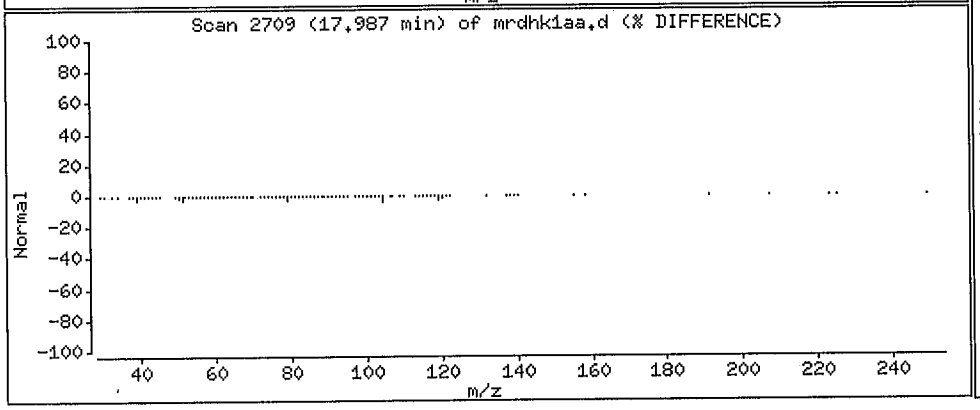












Data File: /var/chem/goms/mg.i/G031312.b/mrdhk1aa.d

Date : 13-MAR-2012 18:13

Client ID: HOUSE # 2 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

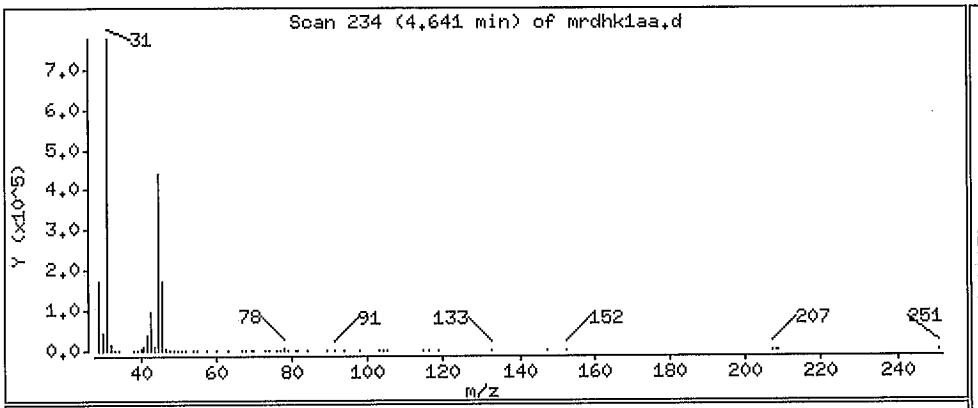
Operator: 7126

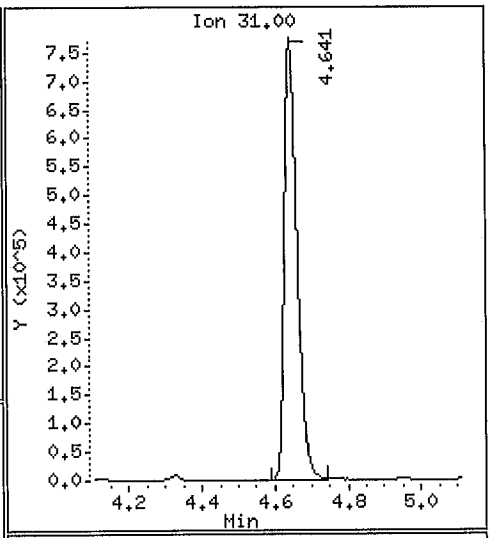
Column phase: Rtx-5

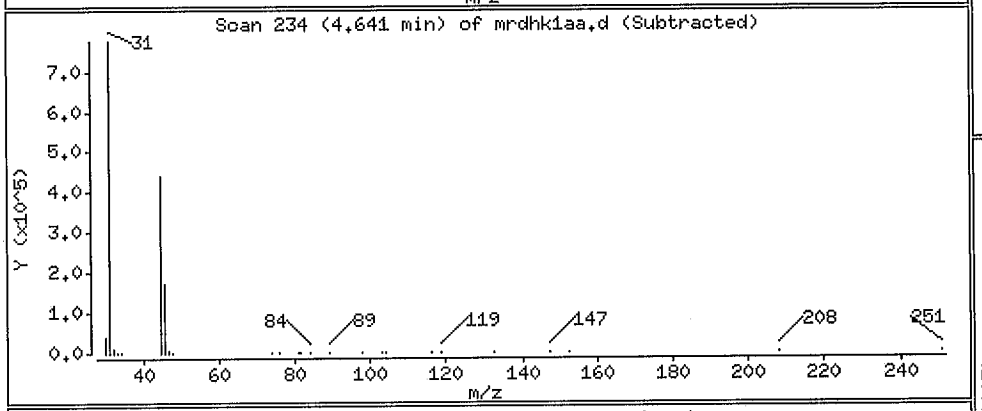
Column diameter: 0.32

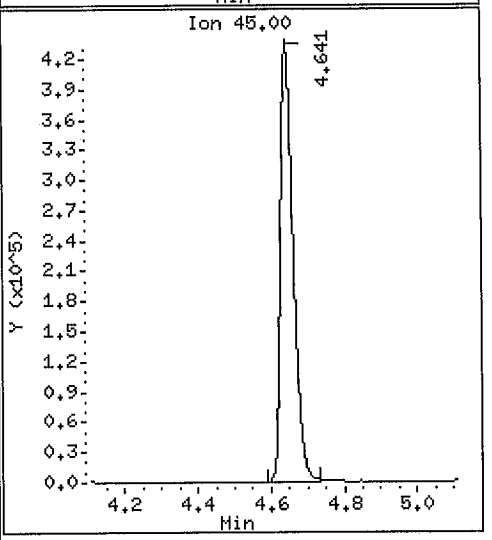
17 ^ ethanol

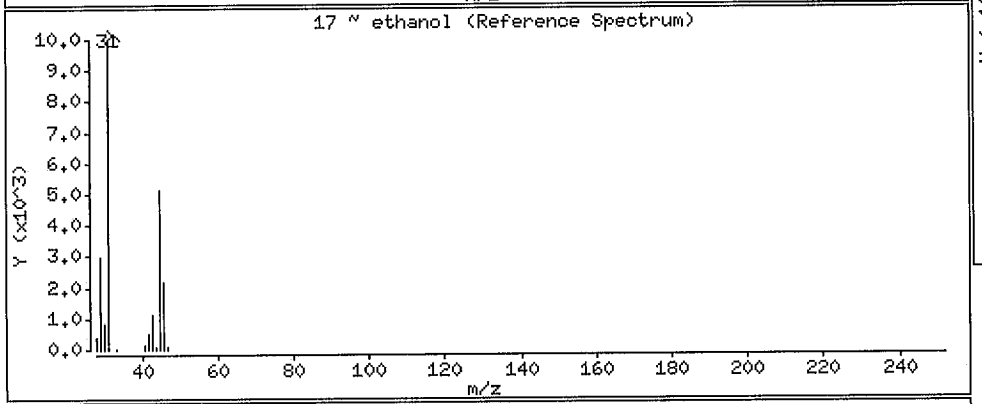
Concentration: 37.22 ppb(v/v)

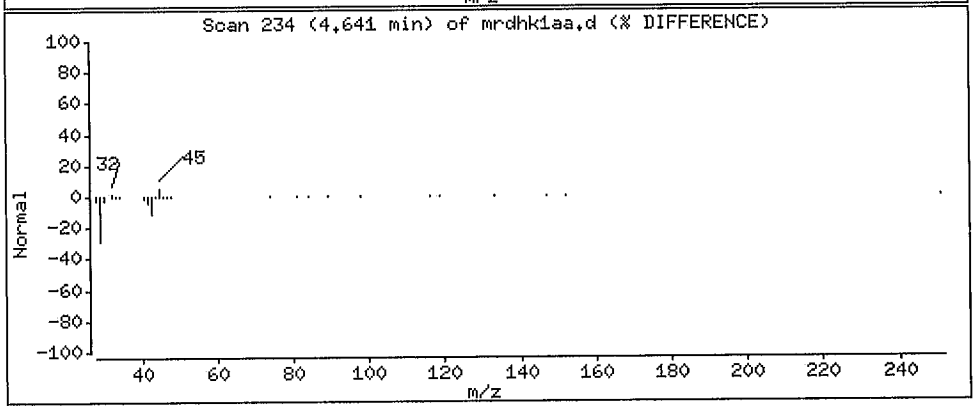












New York State D.E.C.

Client Sample ID: HOUSE # 2 SS DUP

GC/MS Volatiles

Lot-Sample #	H2C130401 - 004	**Work Order #**	MRDHL1AA	**Matrix.....:**	AIR
Date Sampled...:	03/09/2012	**Date Received..:**	03/10/2012		
Prep Date.....:	03/13/2012	**Analysis Date...**	03/13/2012		
Prep Batch #.....:	2073128				
Dilution Factor.:	1	**Method.....:**	TO-15		

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	**0.083**	**0.080**	**0.45**	**0.44**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**0.88**	**0.080**	**4.3**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.22**	**0.080**	**1.1**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**1.8**	**0.32**	**5.3**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.47**	**0.080**	**1.5**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.060**	**0.040**	**0.38**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.25**	**0.080**	**1.2**	**0.39**
Cyclohexane	**1.6**	**0.20**	**5.6**	**0.69**
Chloromethane	ND	0.20	ND	0.41
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.52**	**0.080**	**2.6**	**0.40**
Ethanol	**1.1**	**0.80**	**2.0**	**1.5**
Ethylbenzene	**0.50**	**0.080**	**2.2**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**1.2**	**0.20**	**4.2**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 2 SS DUP

GC/MS Volatiles

Lot-Sample # H2C130401 - 004 **Work Order #** MRDHL1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	**0.26**	**0.080**	**1.1**	**0.34**
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**2.6**	**0.080**	**9.8**	**0.30**
m-Xylene & p-Xylene	**2.1**	**0.080**	**9.0**	**0.35**
o-Xylene	**0.85**	**0.080**	**3.7**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.20**	**0.080**	**1.1**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	113	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d
Lab Smp Id: MRDHL1AA Client Smp ID: HOUSE # 2 SS DUP
Inj Date : 13-MAR-2012 19:12
Operator : 7126 Inst ID: mg.i
Smp Info : ,,0,,,
Misc Info : G031312,TO15,nysdec.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 14-Mar-2012 13:23 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.168	8.168	(1.000)	580237	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.281	10.281	(1.000)	3045204	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.102	15.102	(1.000)	2886702	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.774	16.779	(1.111)	2359885	4.51464	4.515
	7 Dichlorodifluoromethane	85	3.730	3.724	(0.457)	290125	0.52115	0.5211
	20 Trichlorofluoromethane	101	4.943	4.943	(0.605)	110644	0.19802	0.1980
	28 tert-butanol	59	5.827	5.736	(0.713)	5167	0.02262	0.02262
	40 Hexane	56	7.423	7.418	(0.909)	199539	1.18775	1.188
	39 2-Butanone	72	7.553	7.553	(0.925)	140638	1.78896	1.789
	43 Chloroform	83	8.178	8.178	(1.001)	105144	0.24974	0.2497
	45 1,1,1-Trichloroethane	97	9.111	9.111	(1.116)	38533	0.08315	0.08315
	49 Cyclohexane	69	9.645	9.645	(0.938)	177756	1.63786	1.638
	48 Benzene	78	9.694	9.699	(0.943)	270859	0.47318	0.4732
	50 Carbon Tetrachloride	117	9.710	9.710	(0.944)	29510	0.05984	0.05984
	65 Toluene	91	13.080	13.085	(0.866)	1829934	2.60213	2.602
	76 Ethylbenzene	91	15.437	15.442	(1.022)	447230	0.50407	0.5041

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d
Report Date: 14-Mar-2012 13:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
78 m&p-Xylene	91	15.598	15.604	(1.033)	1435546	2.07946	2.079
81 Styrene	104	16.089	16.089	(1.065)	133328	0.26136	0.2614
82 o-Xylene	91	16.138	16.138	(1.069)	608964	0.84600	0.8460
90 1,3,5-Trimethylbenzene	120	17.529	17.529	(1.161)	100429	0.22086	0.2209
94 1,2,4-Trimethylbenzene	105	17.987	17.987	(1.191)	711989	0.88387	0.8839
17 ~ ethanol	31	4.625	4.609	(0.566)	56625	1.05140	1.051

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: mrdhl1aa.d
Lab Smp Id: MRDHL1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: HOUSE # 2 SS DUP
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	580237	3.40
2 1,4-Difluorobenze	2909107	1730919	4087295	3045204	4.68
3 Chlorobenzene-d5	2830968	1684426	3977510	2886702	1.97

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.17	0.00
2 1,4-Difluorobenze	10.28	9.95	10.61	10.28	0.00
3 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

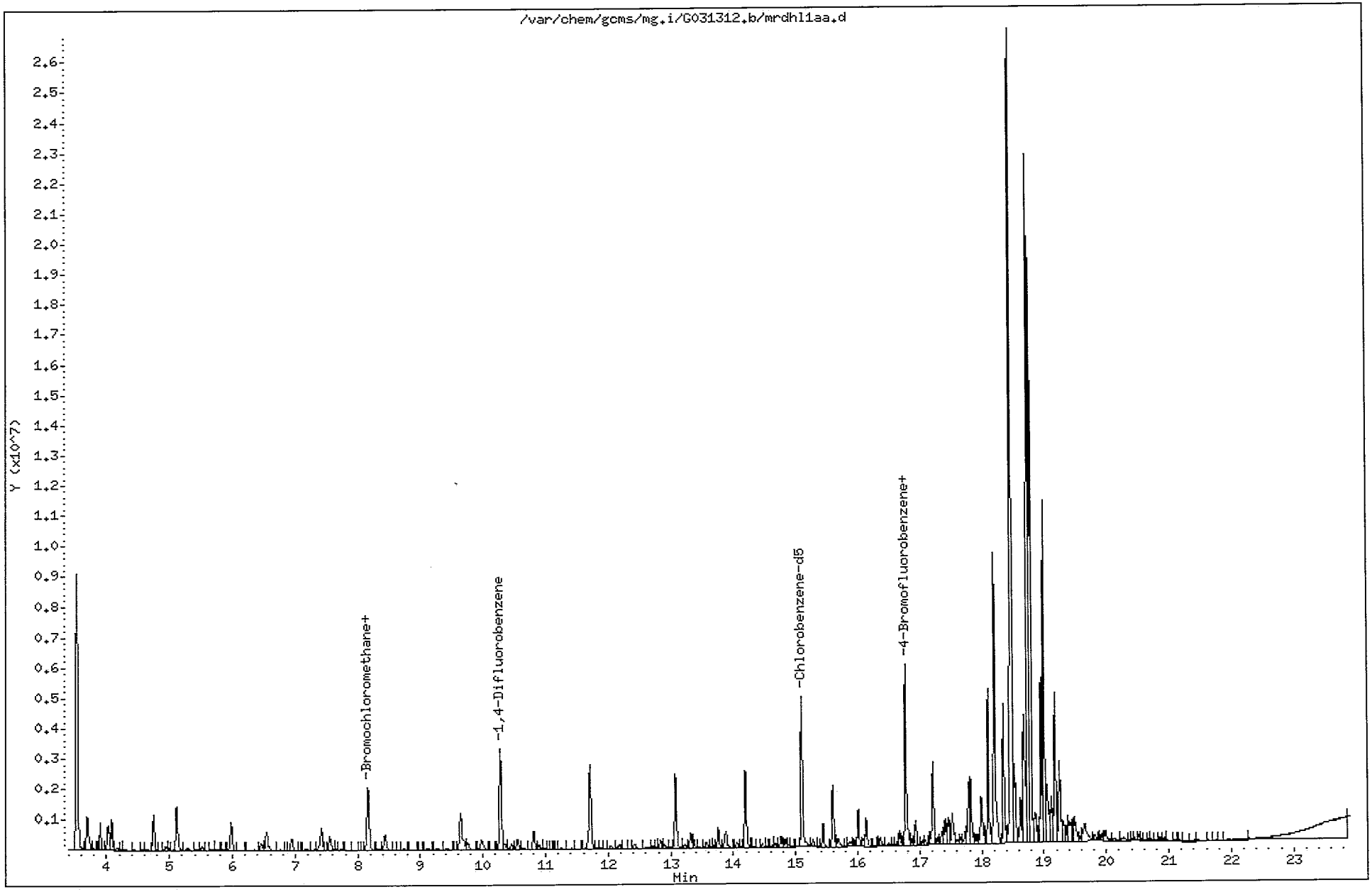
RECOVERY REPORT

Client Name: New York State D.E.C10-MAR-2012 00:00 Client SDG: H2C130401
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MRDHL1AA Client Smp ID: HOUSE # 2 SS DUP
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.515	112.87	70-130

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d
Date : 13-MAR-2012 19:12
Client ID: HOUSE # 2 SS DUP
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

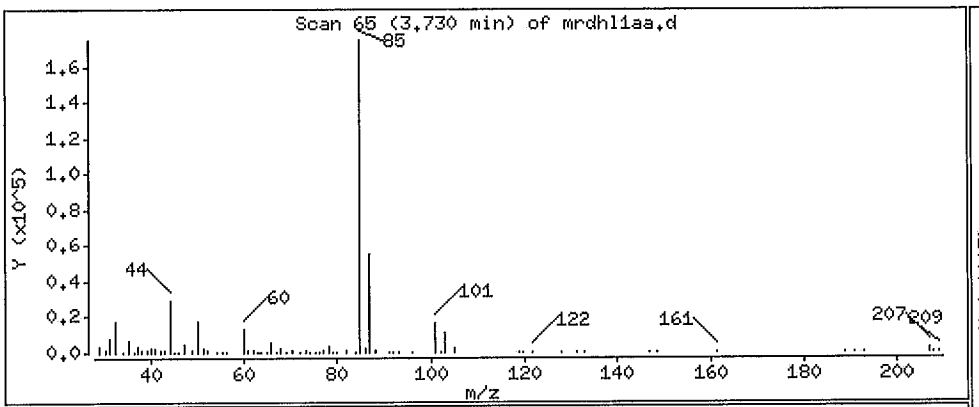
Operator: 7126

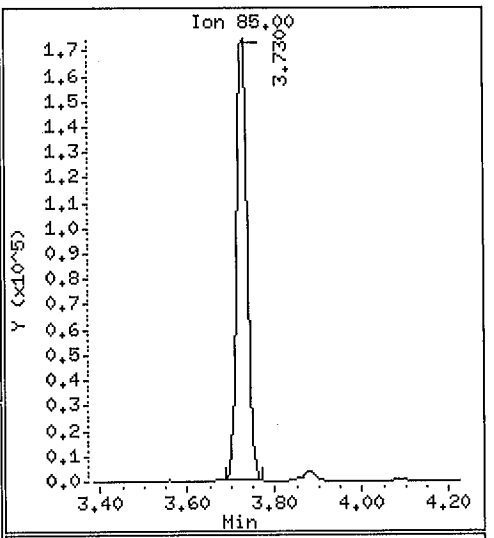
Column phase: Rtx-5

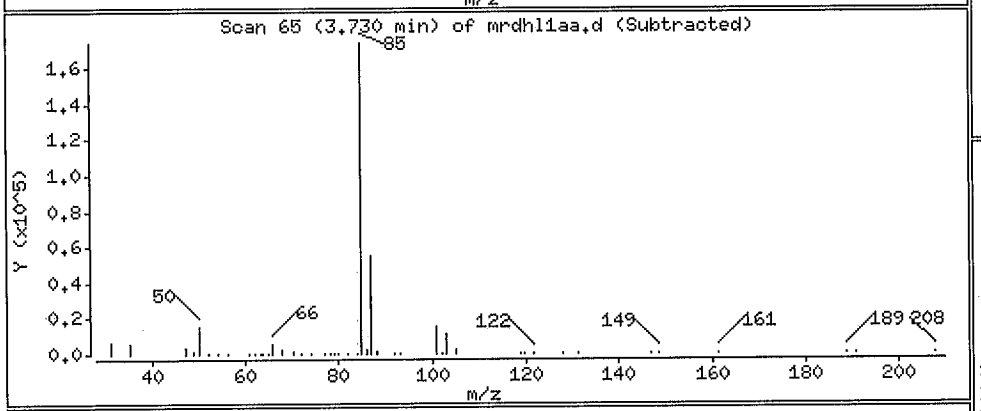
Column diameter: 0.32

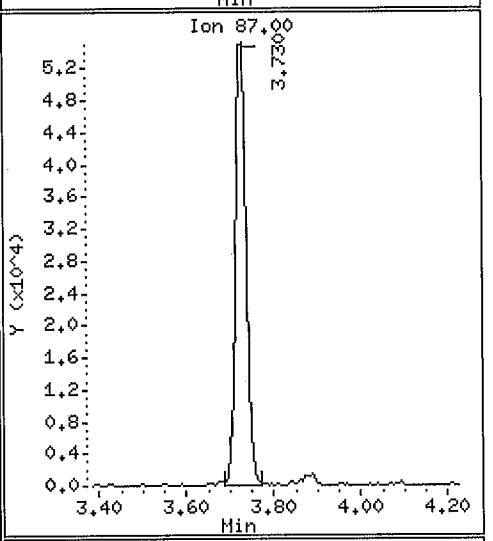
7 Dichlorodifluoromethane

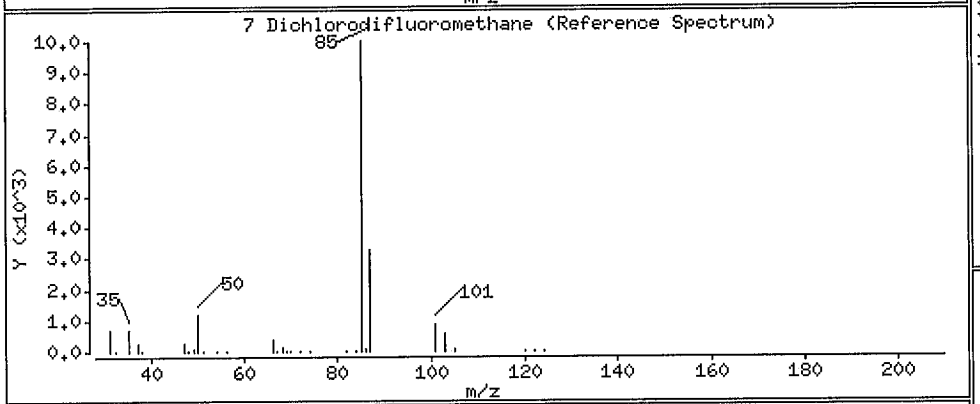
Concentration: 0.5211 ppb(v/v)

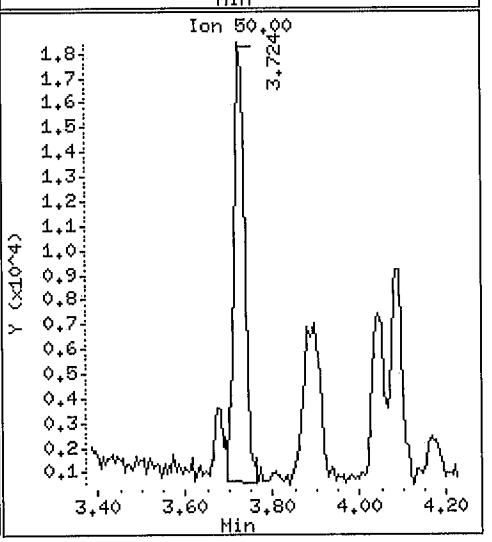


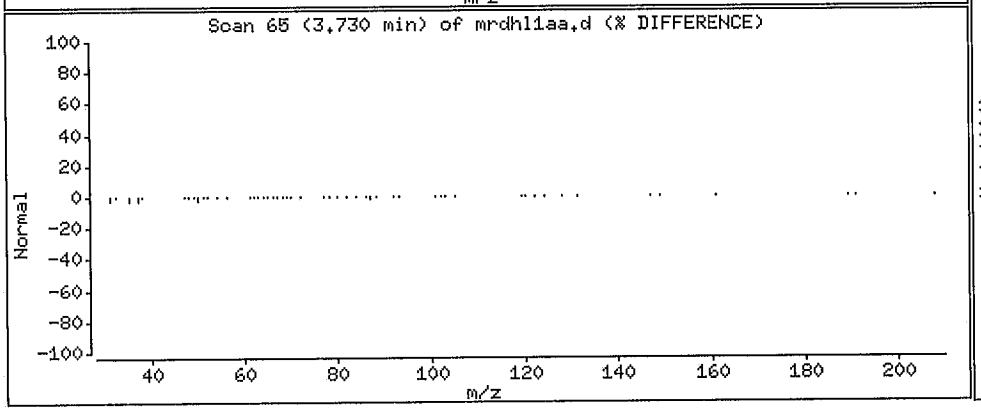












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

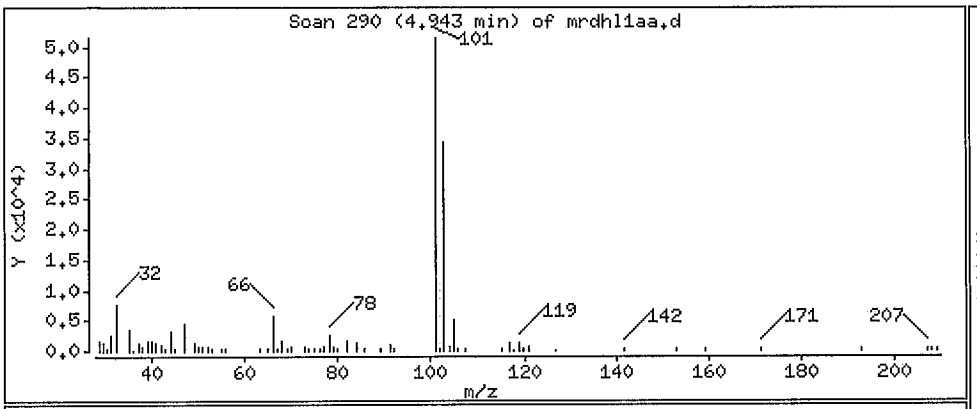
Operator: 7126

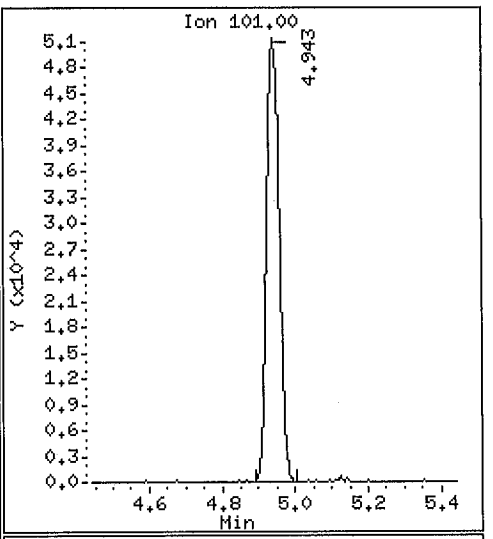
Column phase: Rtx-5

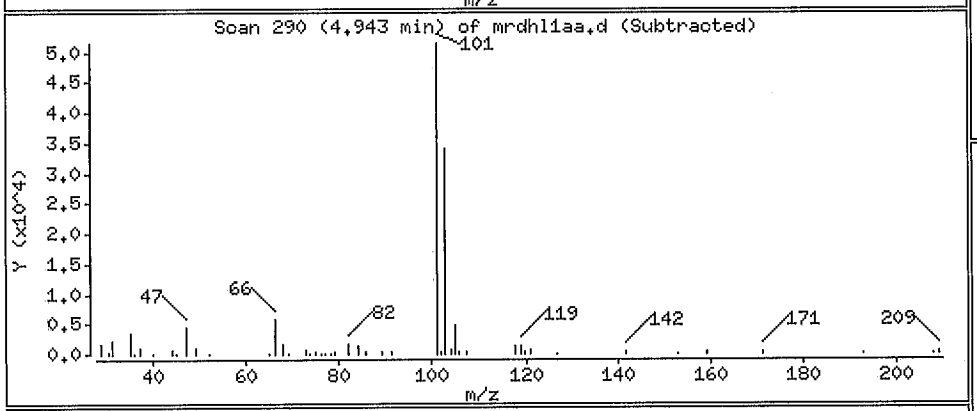
Column diameter: 0.32

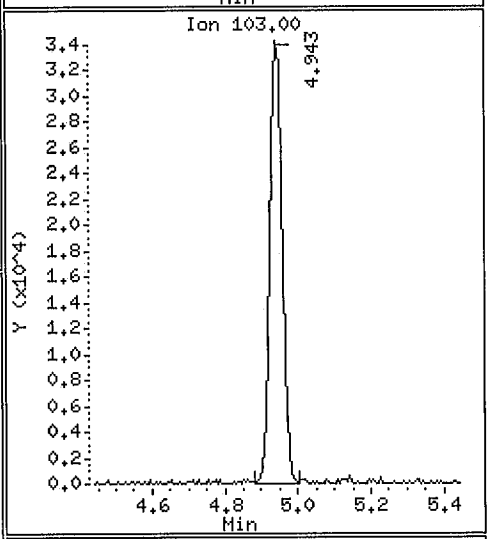
20 Trichlorofluoromethane

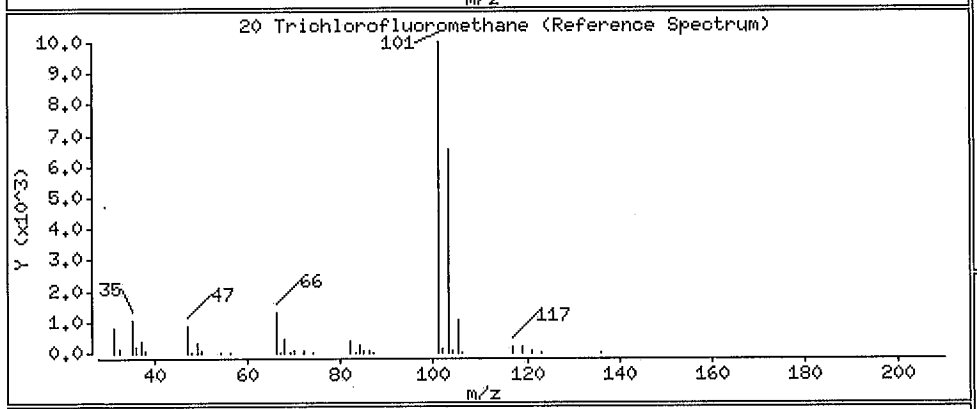
Concentration: 0.1980 ppb(v/v)

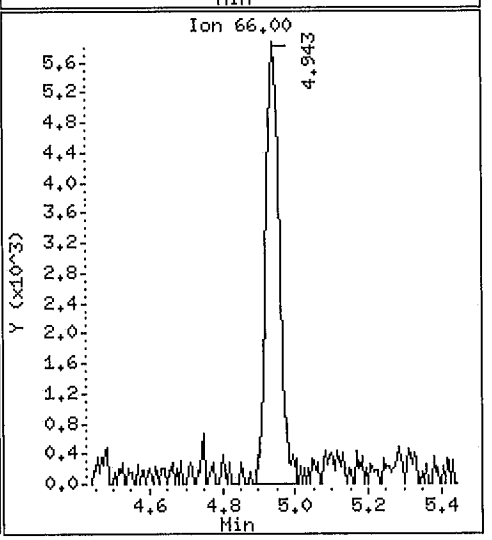


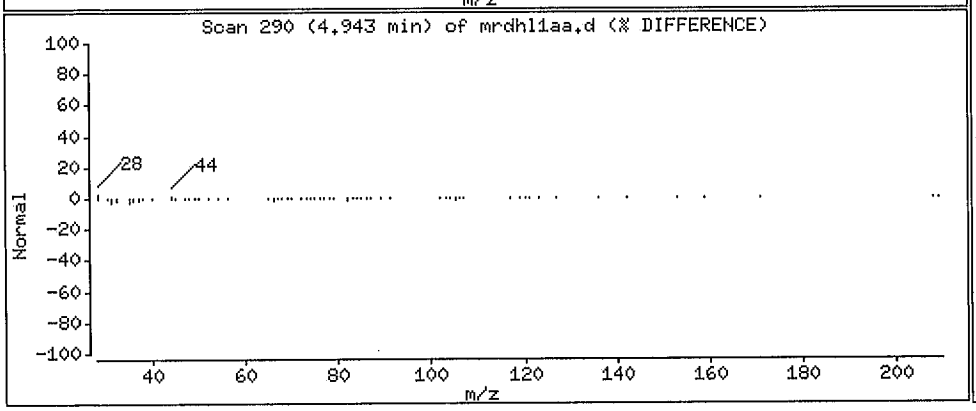












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

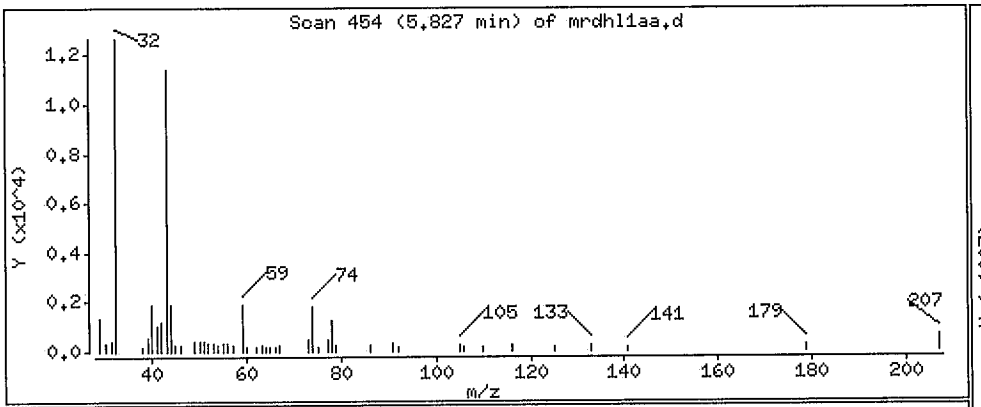
Operator: 7126

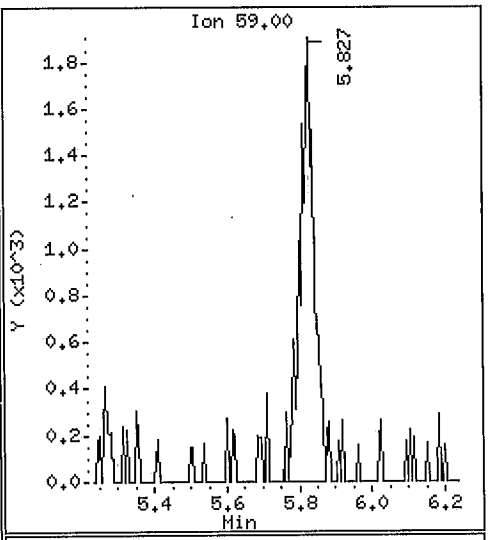
Column phase: Rtx-5

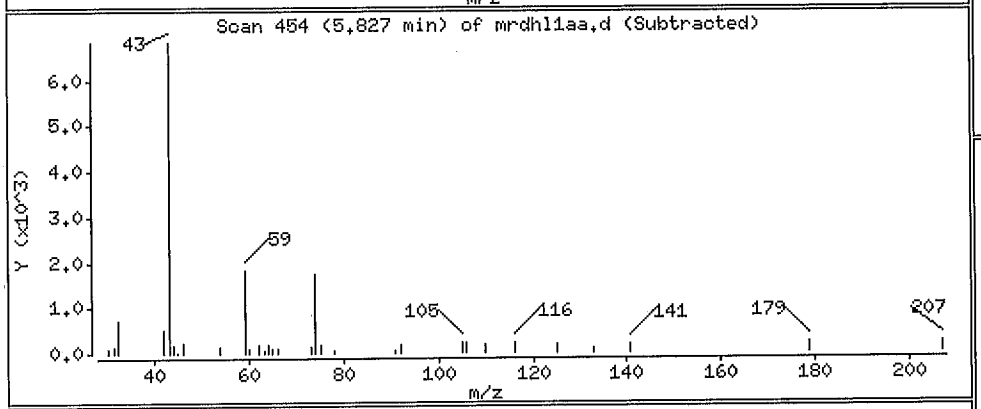
Column diameter: 0.32

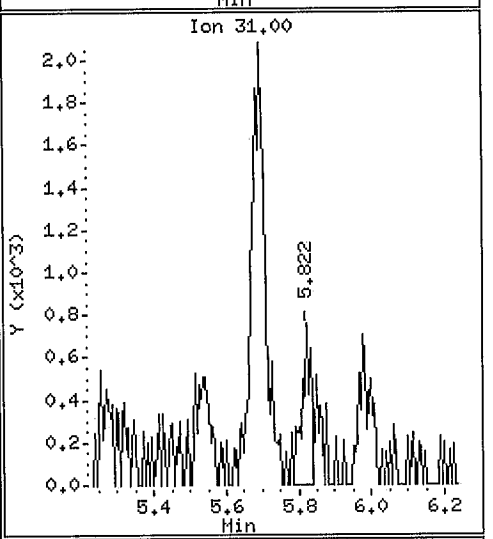
28 tert-butanol

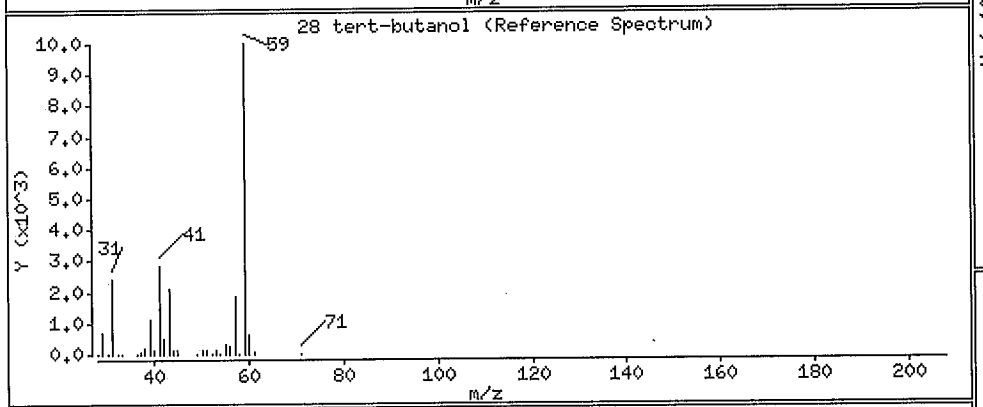
Concentration: 0.02262 ppb(v/v)

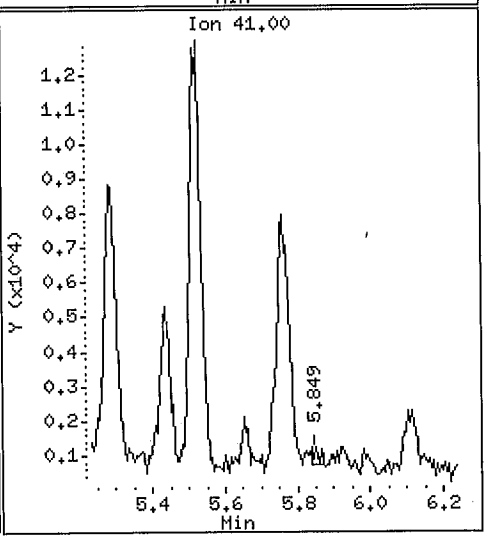


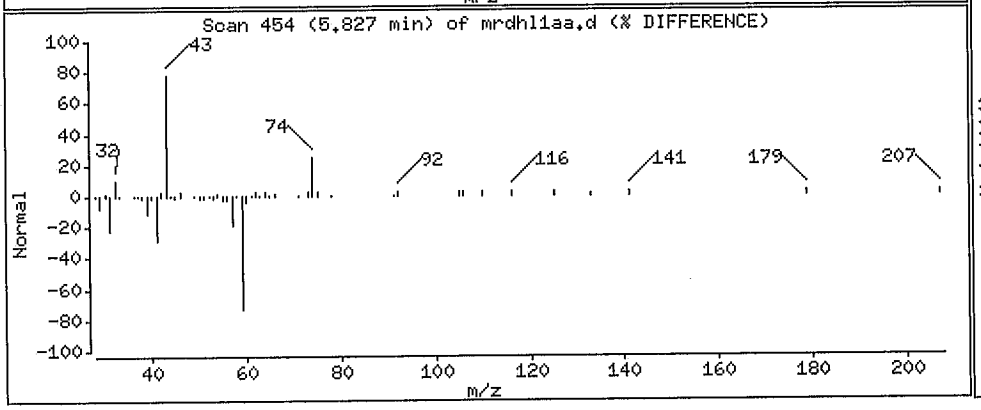












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

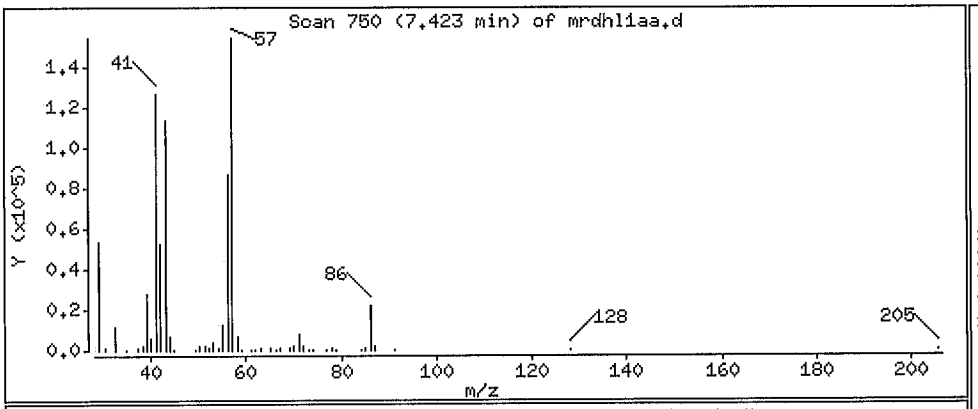
Operator: 7126

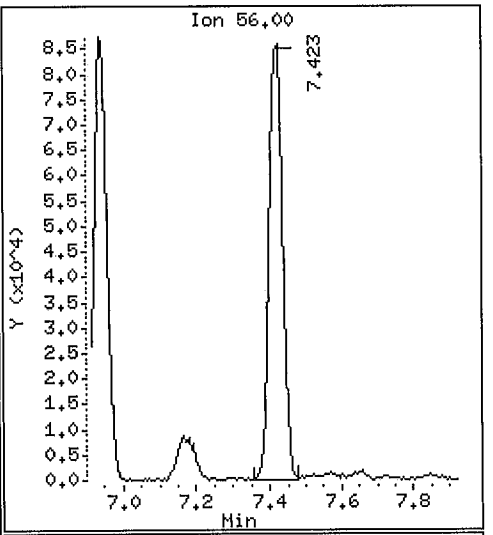
Column phase: Rtx-5

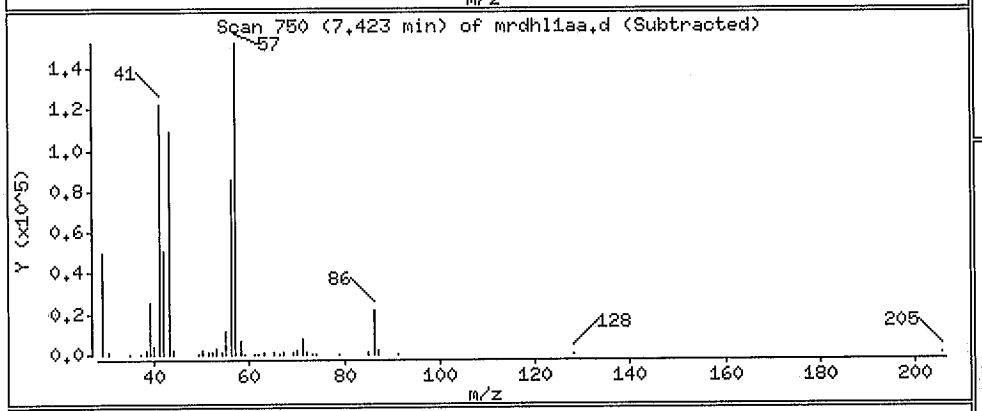
Column diameter: 0.32

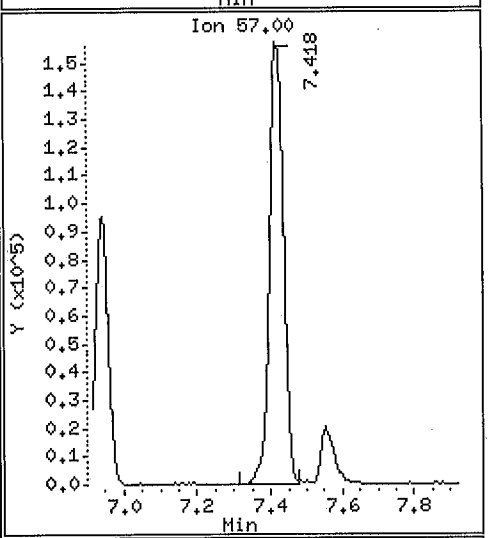
40 Hexane

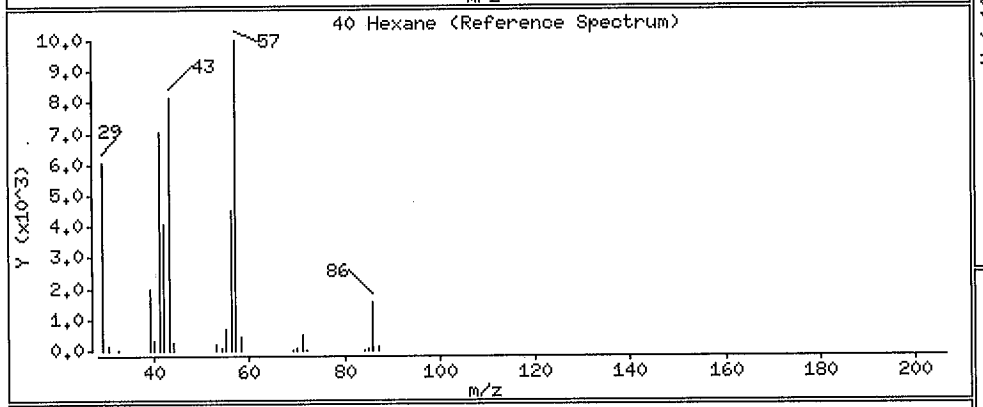
Concentration: 1.188 ppb(v/v)

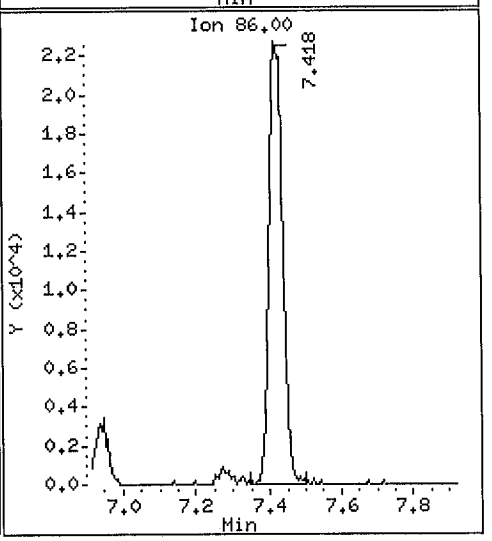


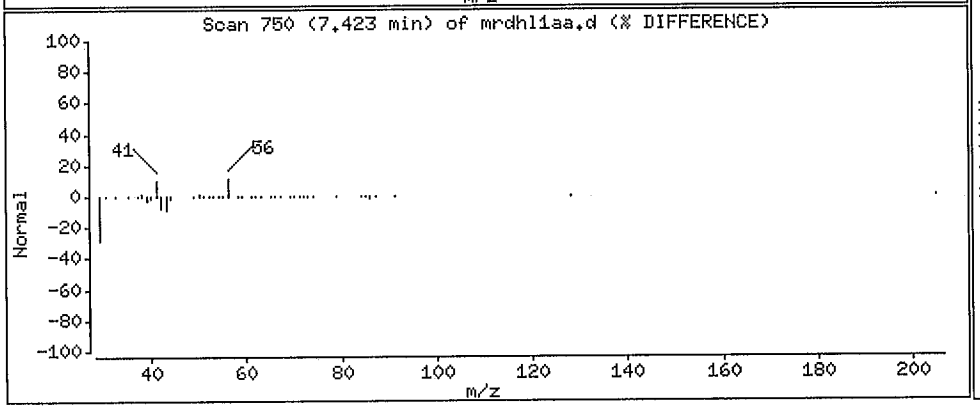












Data File: /var/chem/gcms/mg.i/C031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

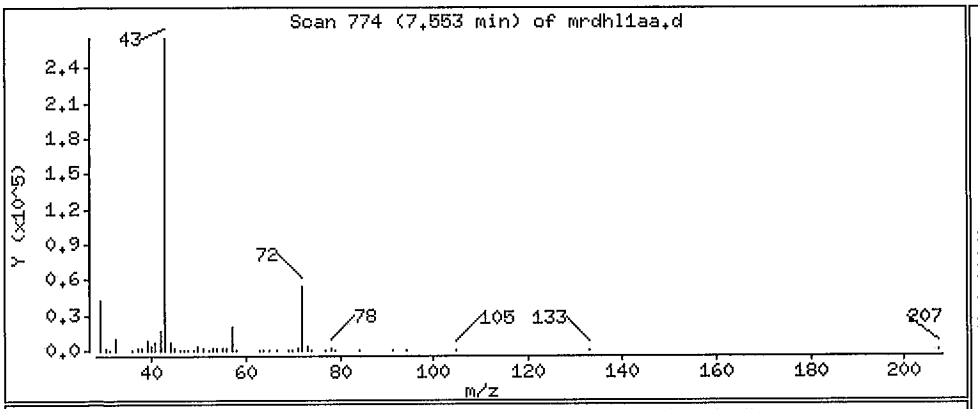
Operator: 7126

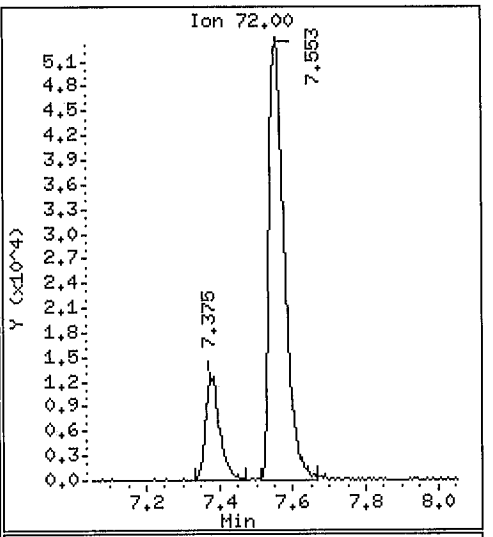
Column phase: Rtx-5

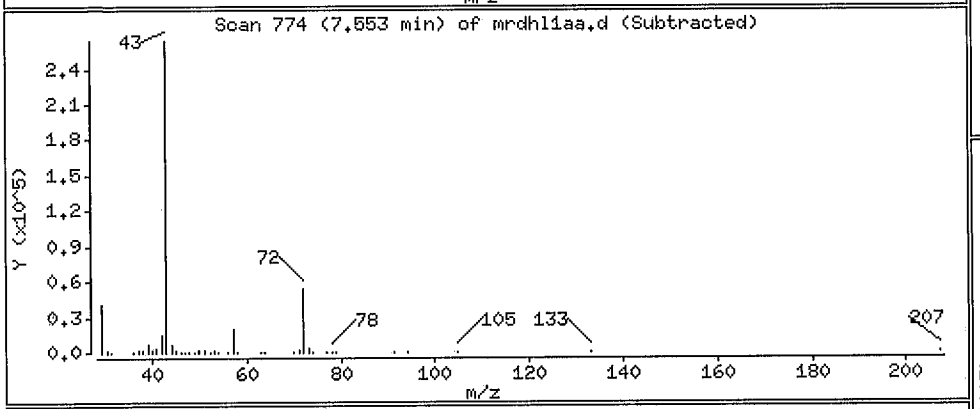
Column diameter: 0.32

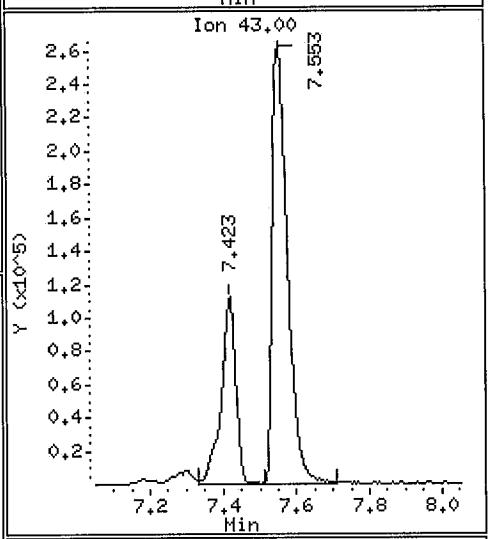
39 2-Butanone

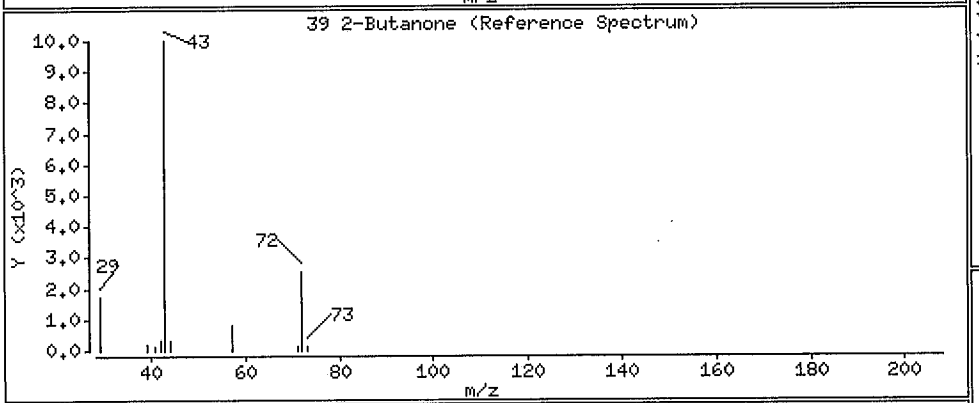
Concentration: 1.789 ppb(v/v)

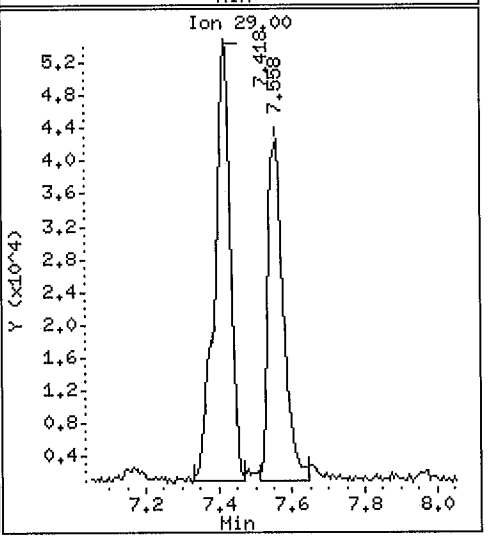


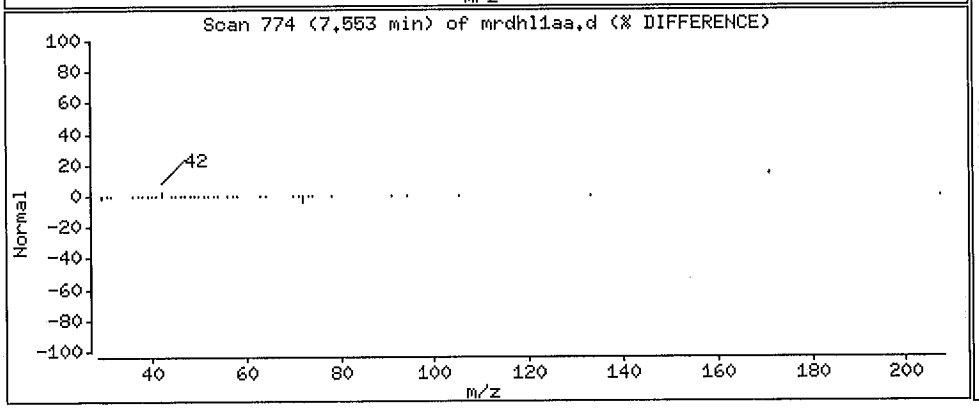












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

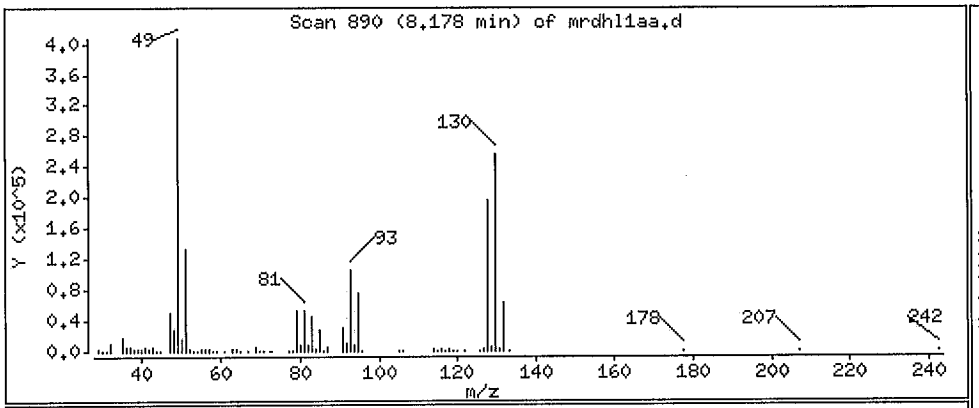
Operator: 7126

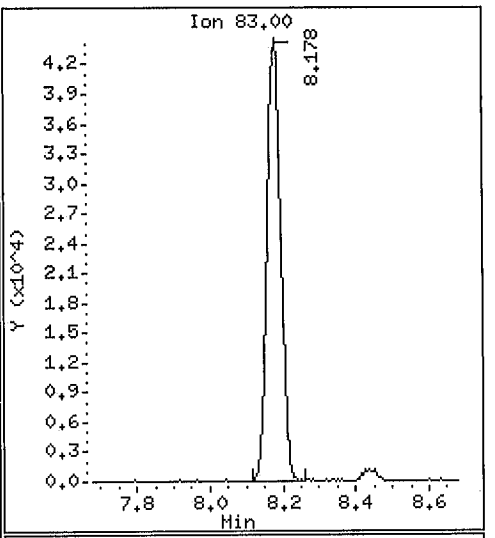
Column phase: Rtx-5

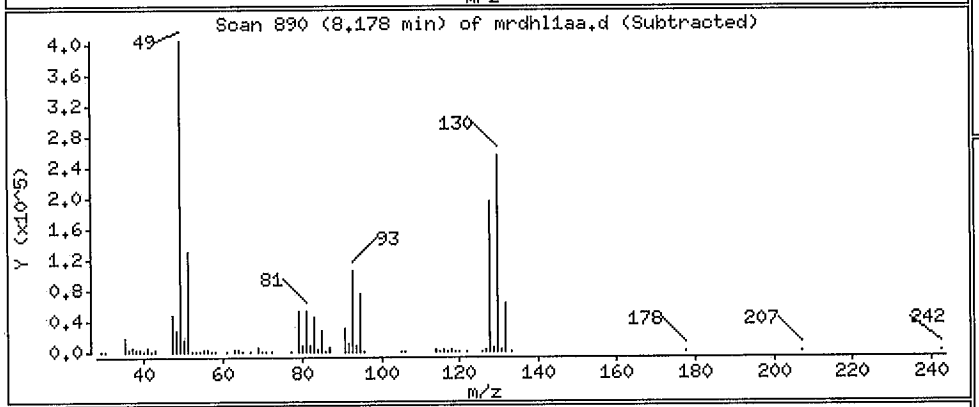
Column diameter: 0.32

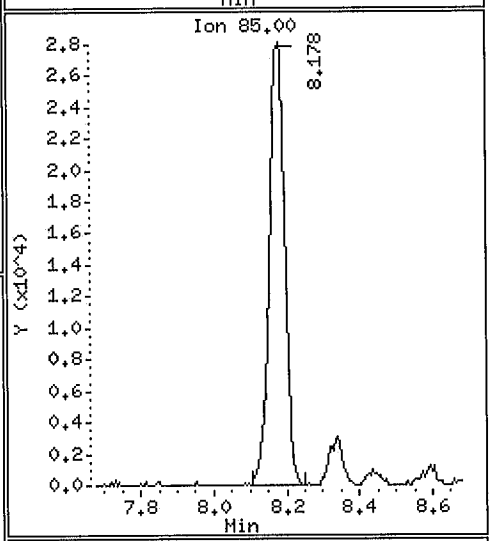
43 Chloroform

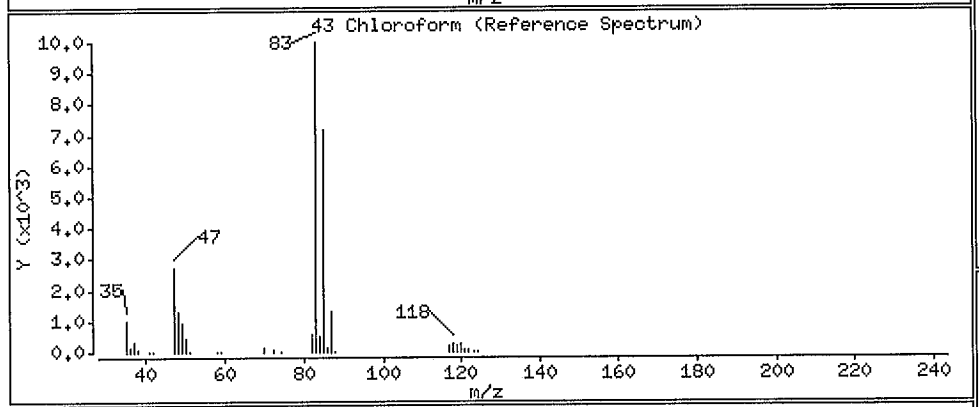
Concentration: 0.2497 ppb(v/v)

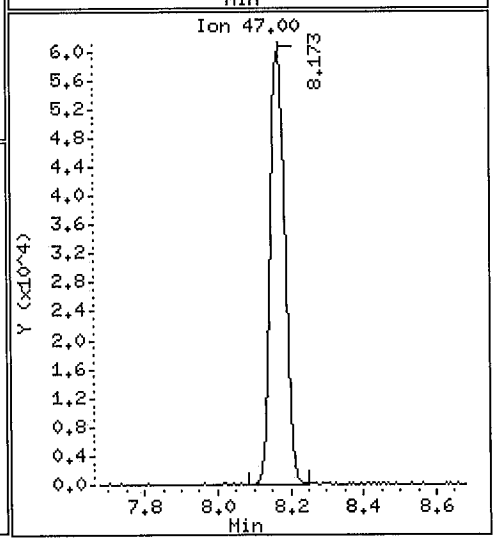


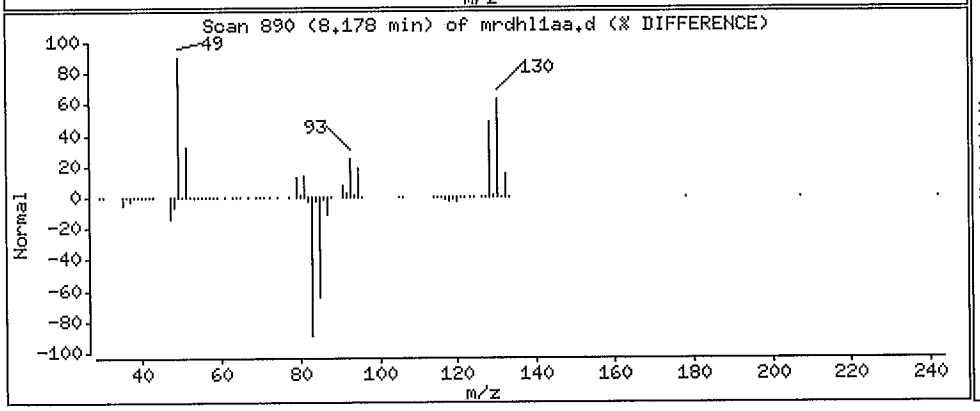












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

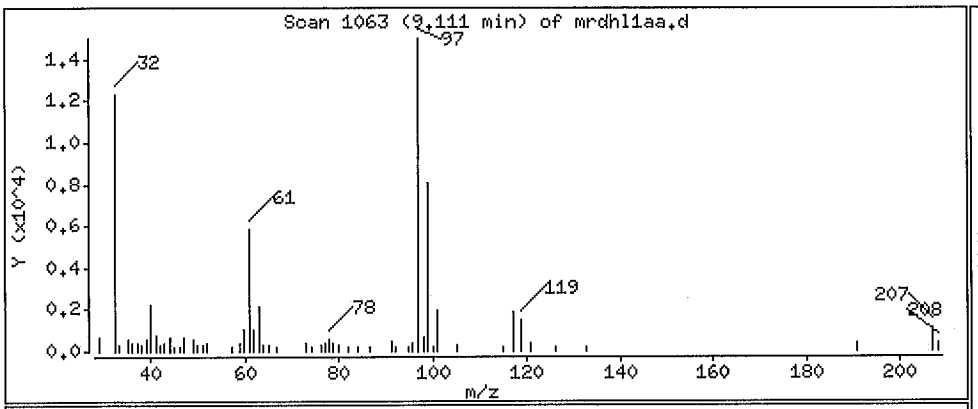
Operator: 7126

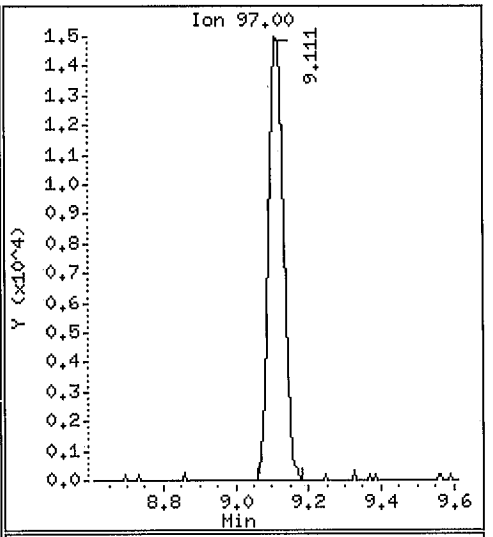
Column phase: Rtx-5

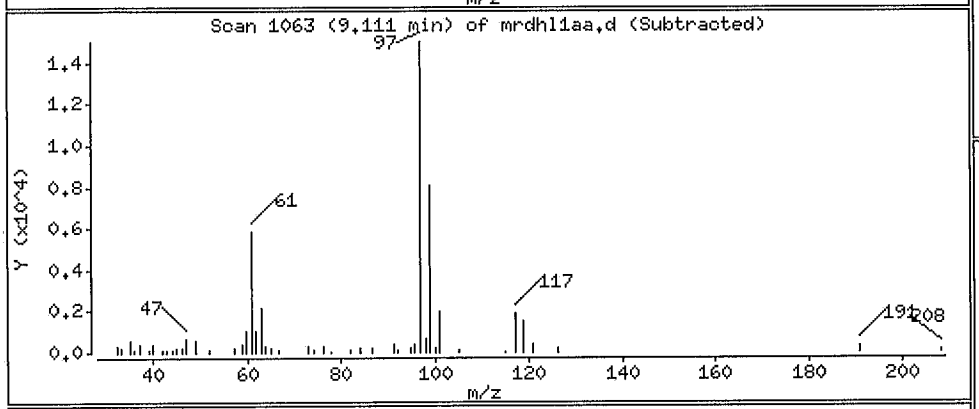
Column diameter: 0.32

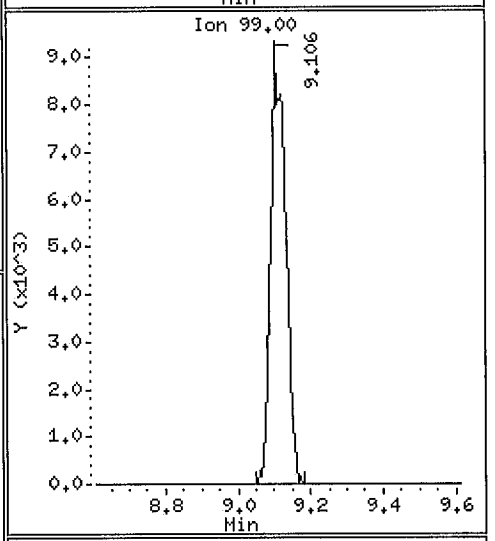
45 1,1,1-Trichloroethane

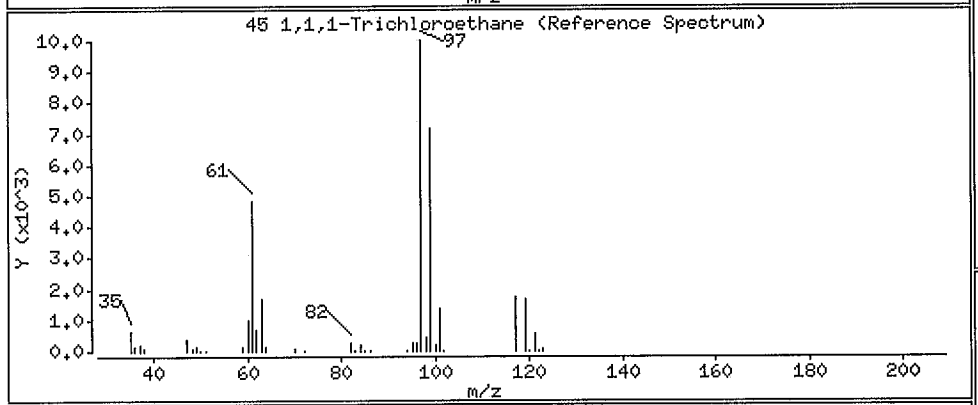
Concentration: 0.08315 ppb(v/v)

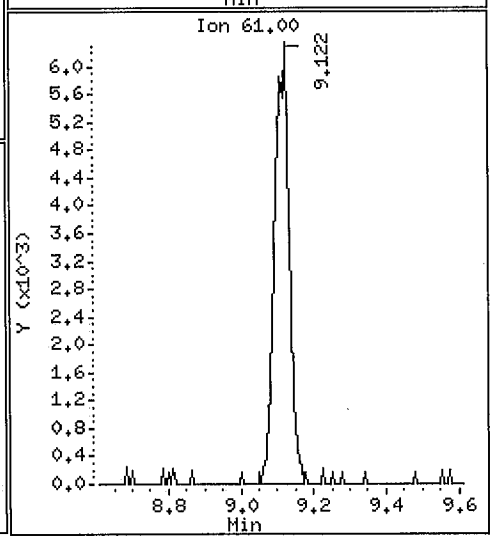


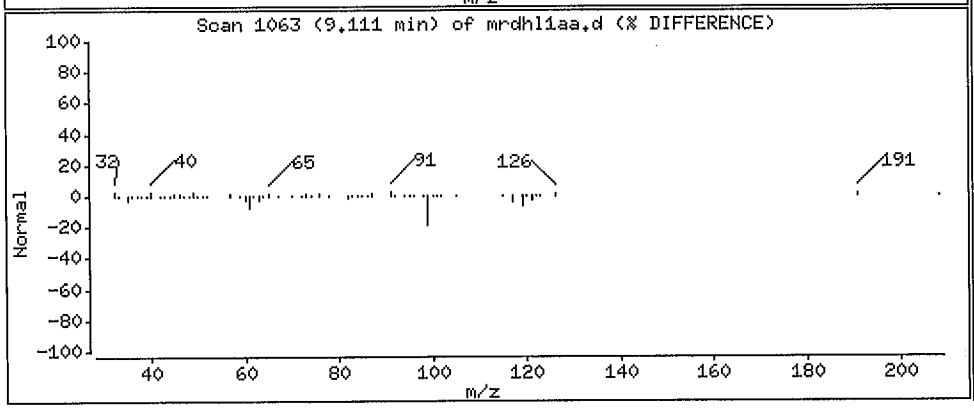












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

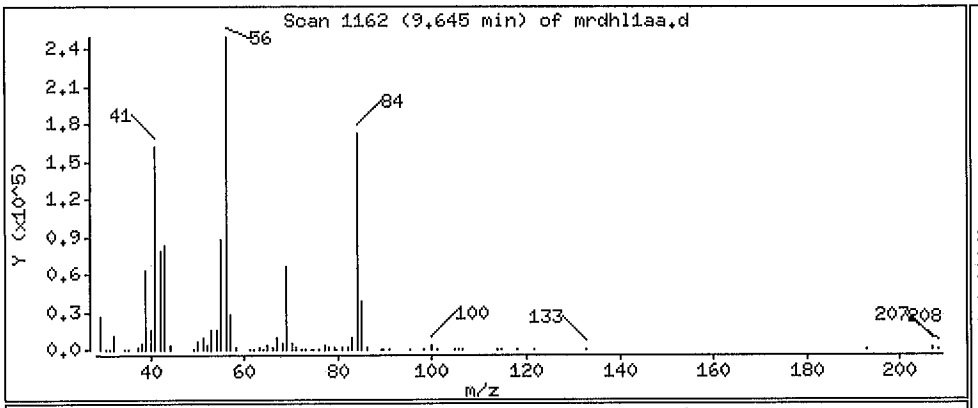
Operator: 7126

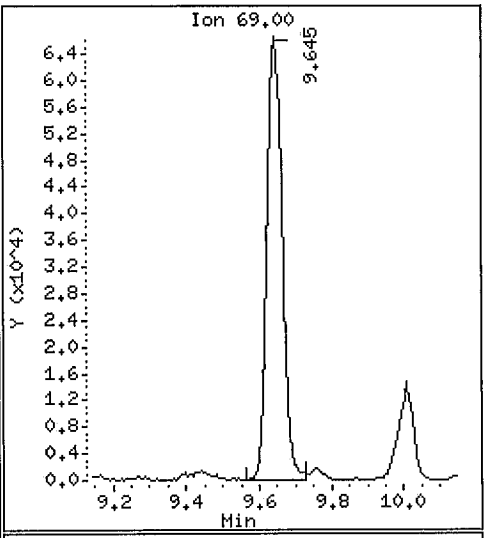
Column phase: Rtx-5

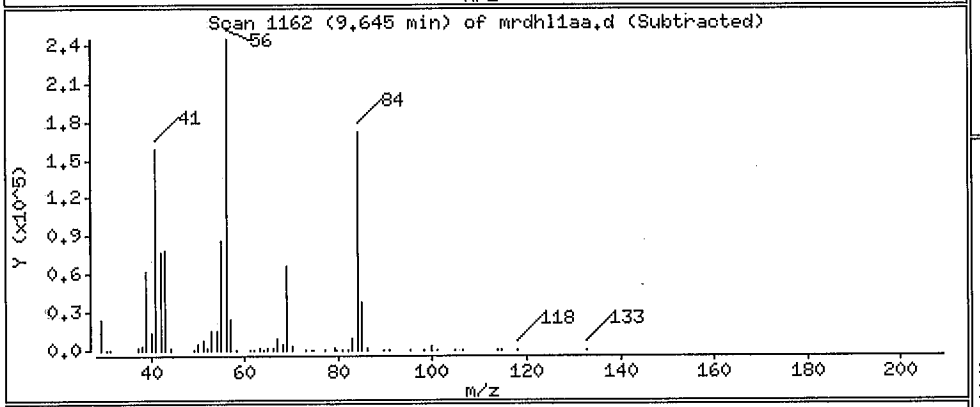
Column diameter: 0.32

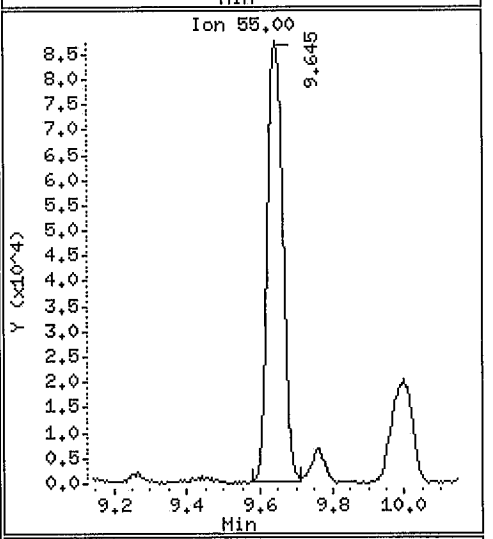
49 Cyclohexane

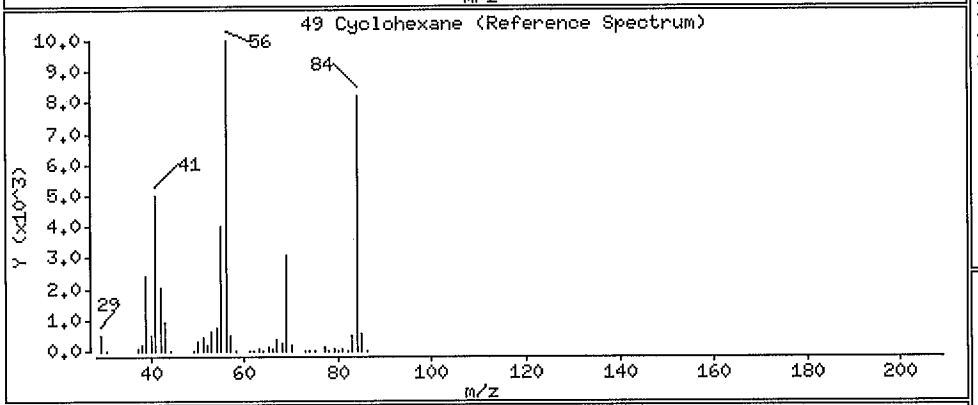
Concentration: 1.638 ppb(v/v)

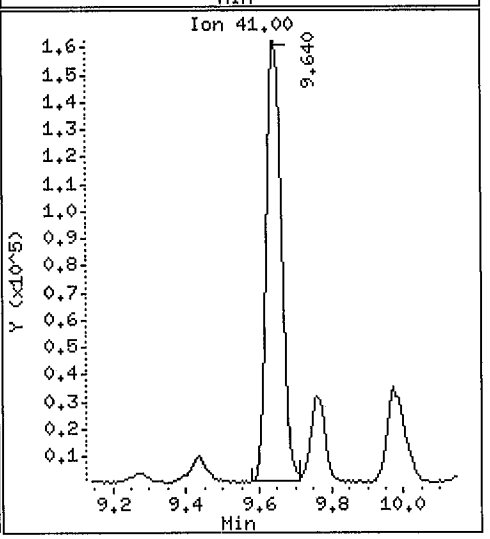


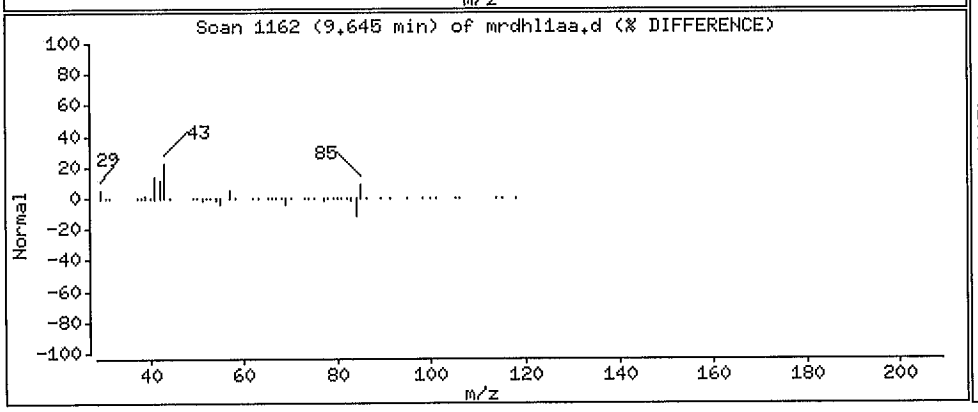












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

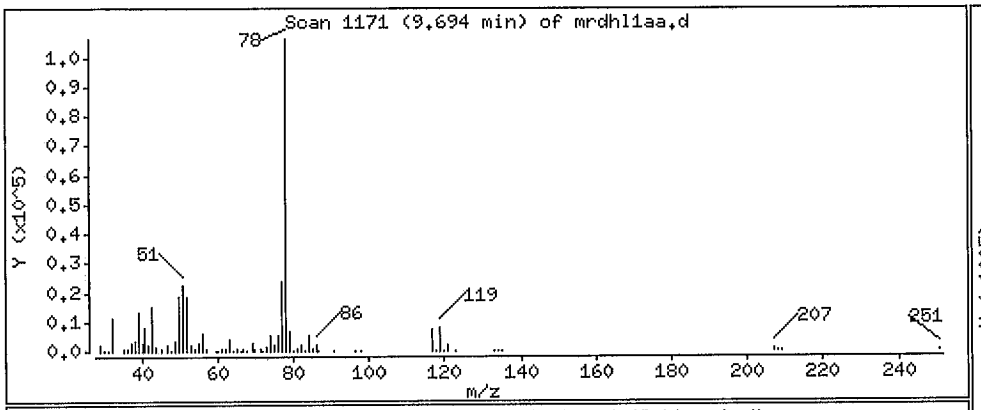
Operator: 7126

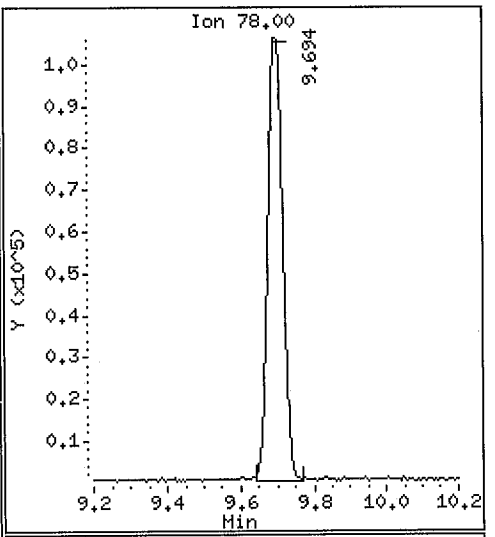
Column phase: Rtx-5

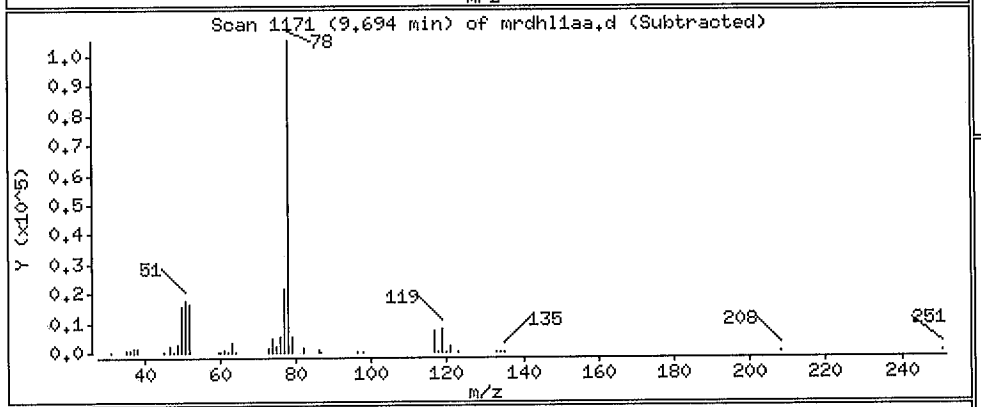
Column diameter: 0.32

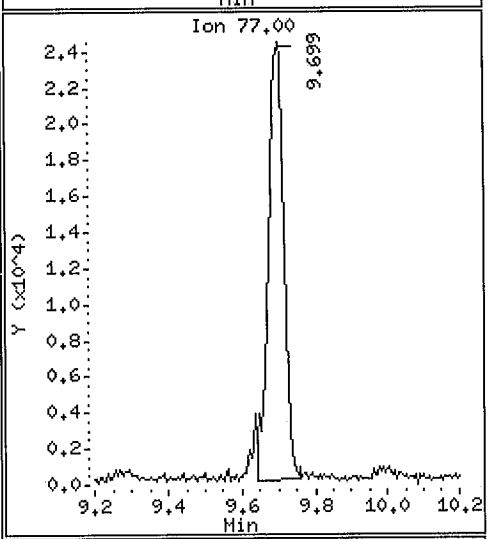
48 Benzene

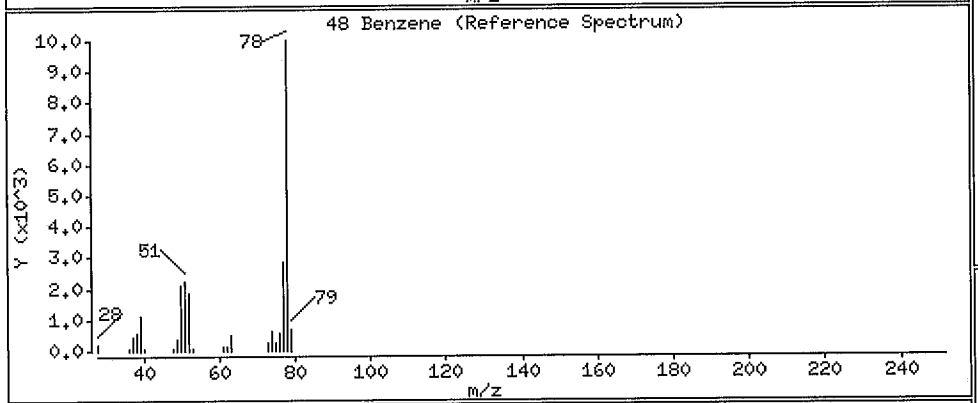
Concentration: 0.4732 ppb(v/v)

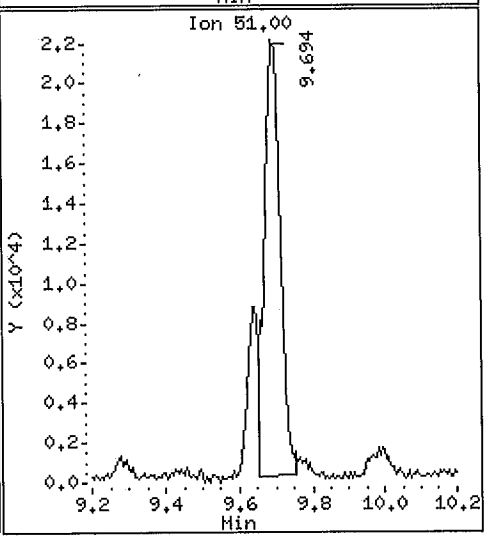


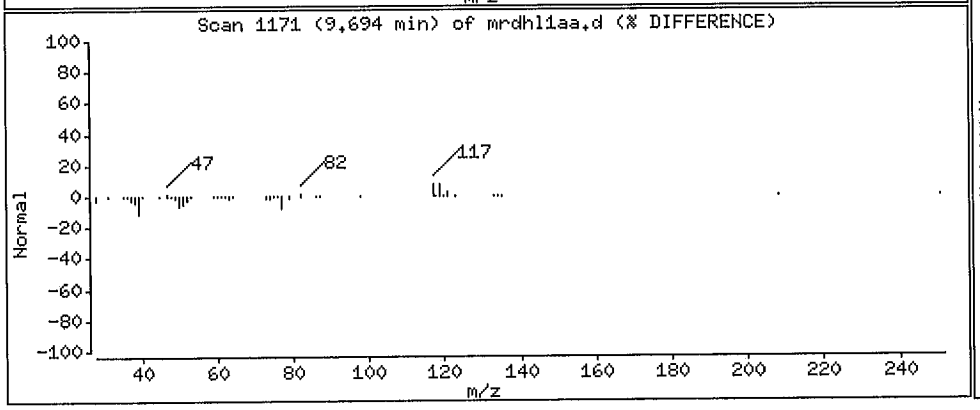












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

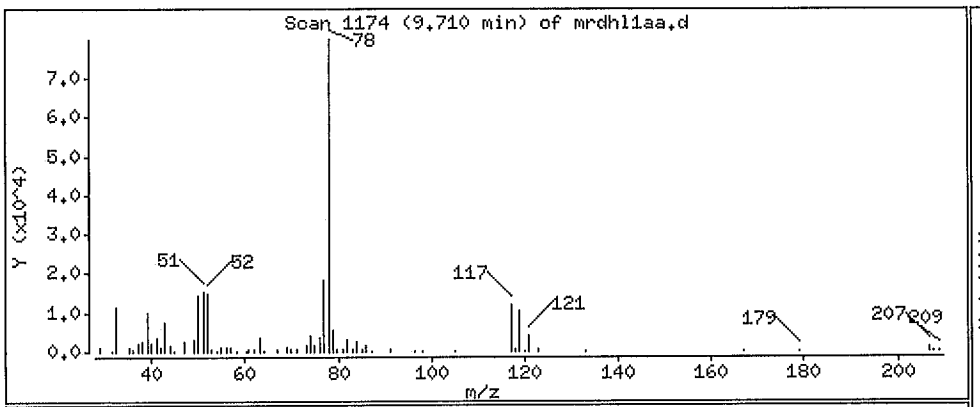
Operator: 7126

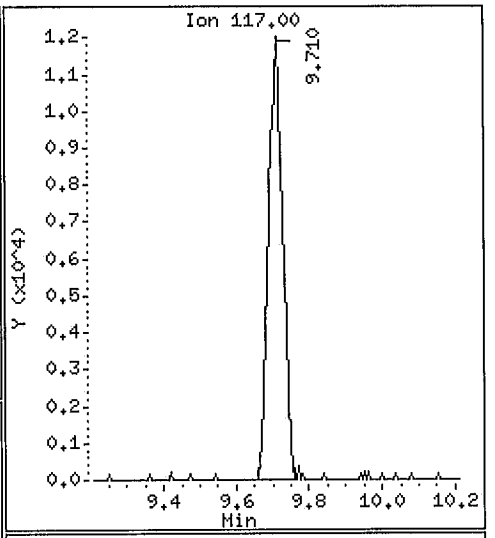
Column phase: Rtx-5

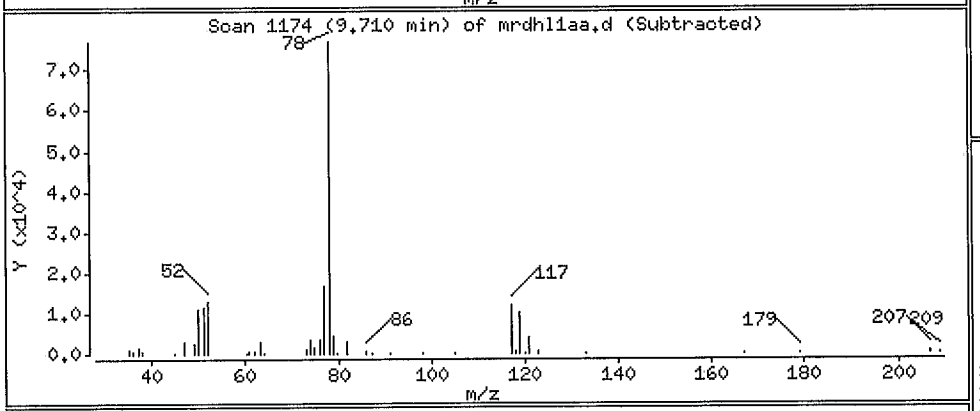
Column diameter: 0.32

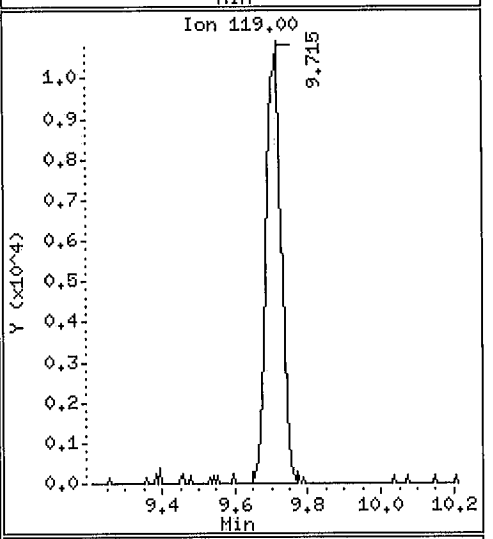
50 Carbon Tetrachloride

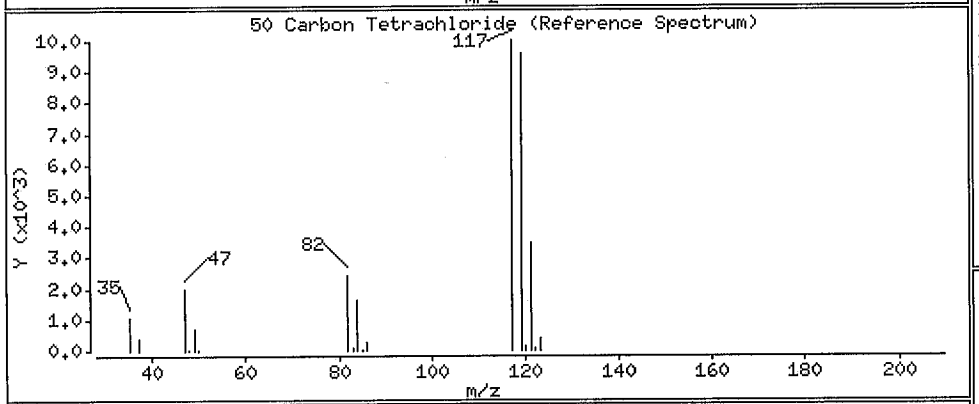
Concentration: 0.05984 ppb(v/v)

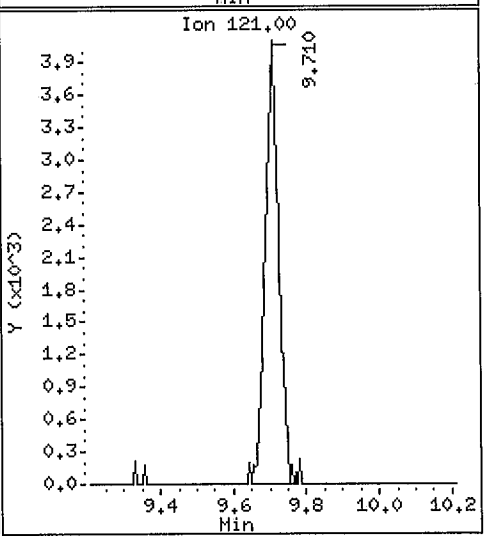


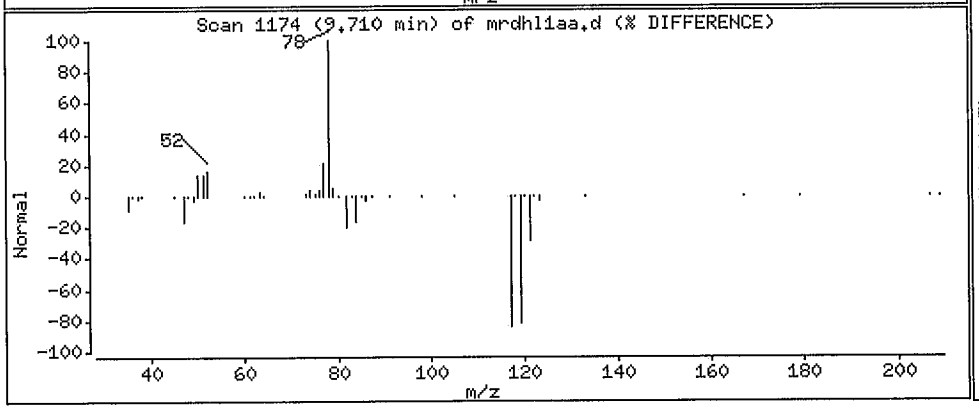












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

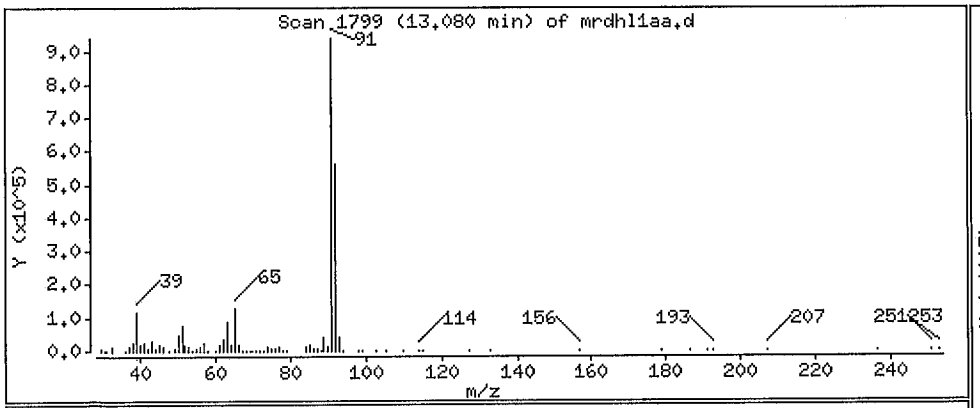
Operator: 7126

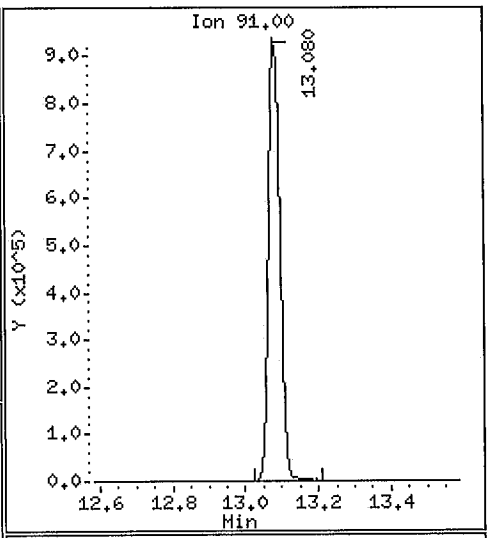
Column phase: Rtx-5

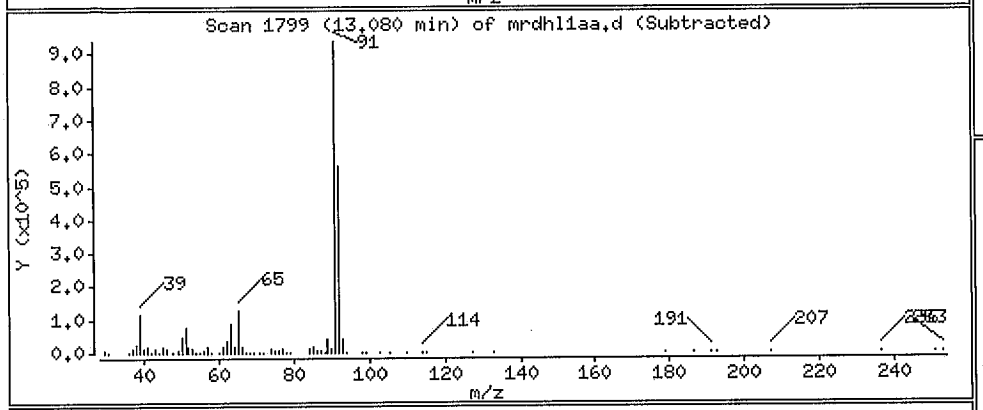
Column diameter: 0.32

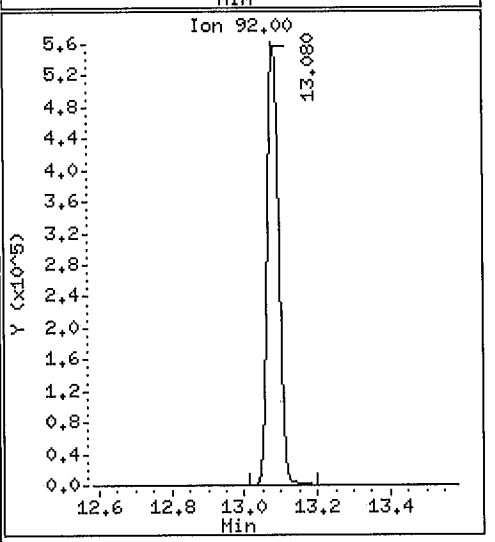
65 Toluene

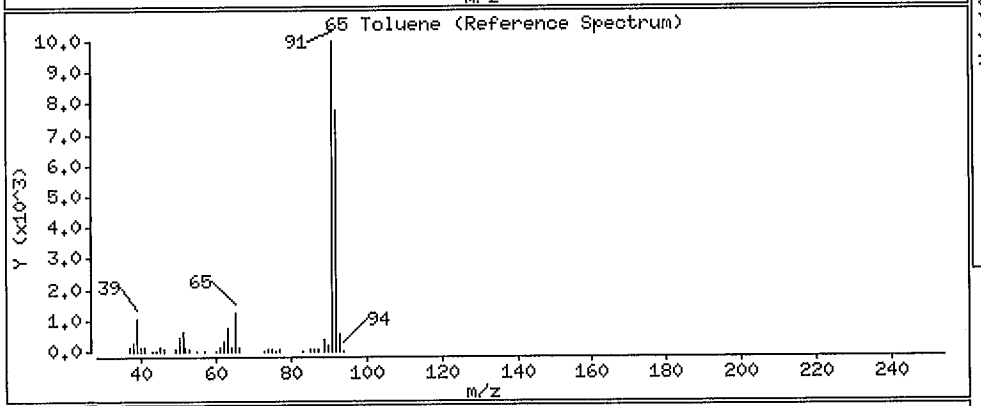
Concentration: 2.602 ppb(v/v)

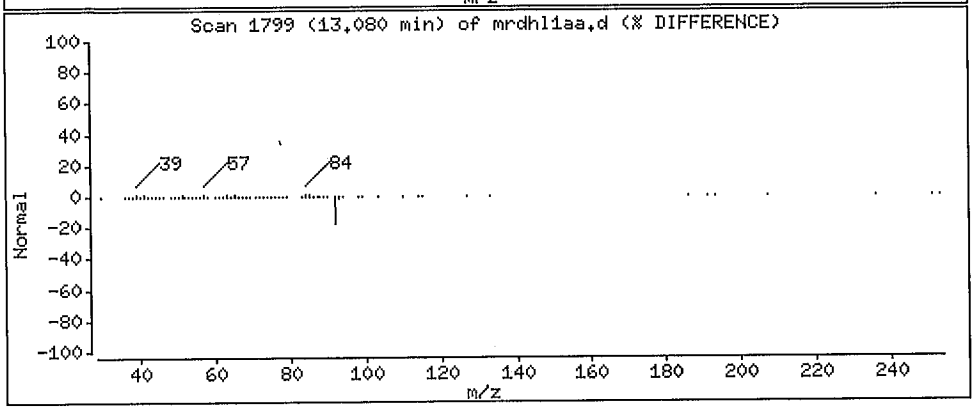












Data File: /var/chem/goms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

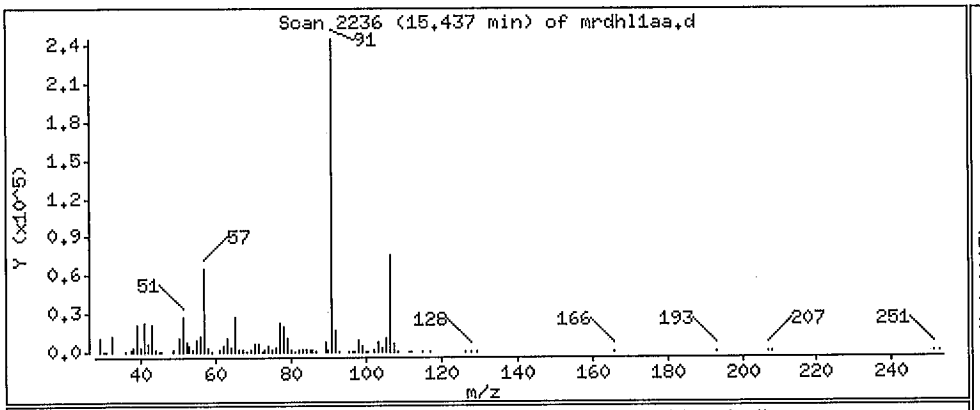
Operator: 7126

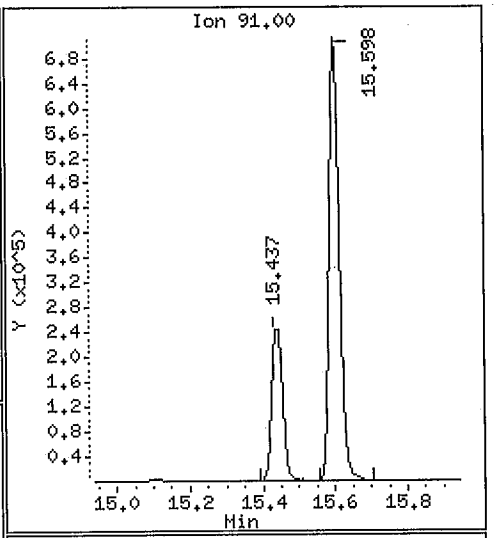
Column phase: Rtx-5

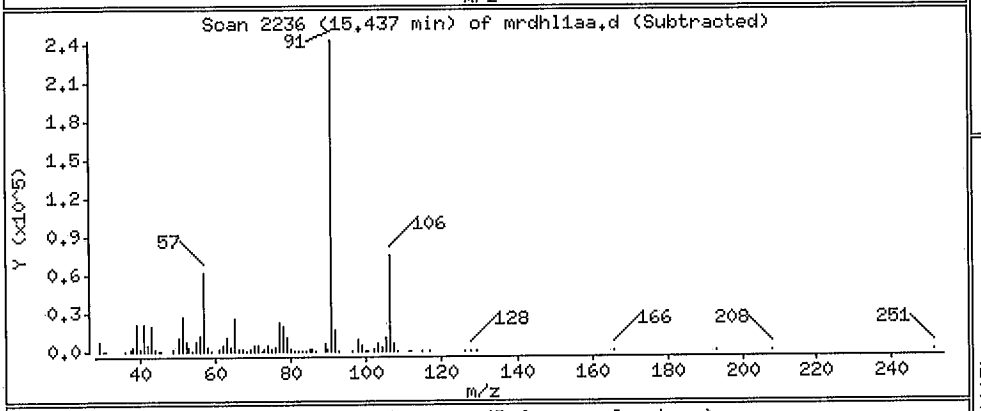
Column diameter: 0.32

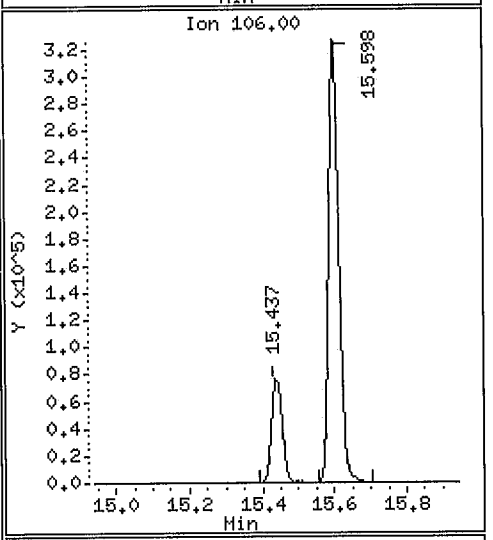
76 Ethylbenzene

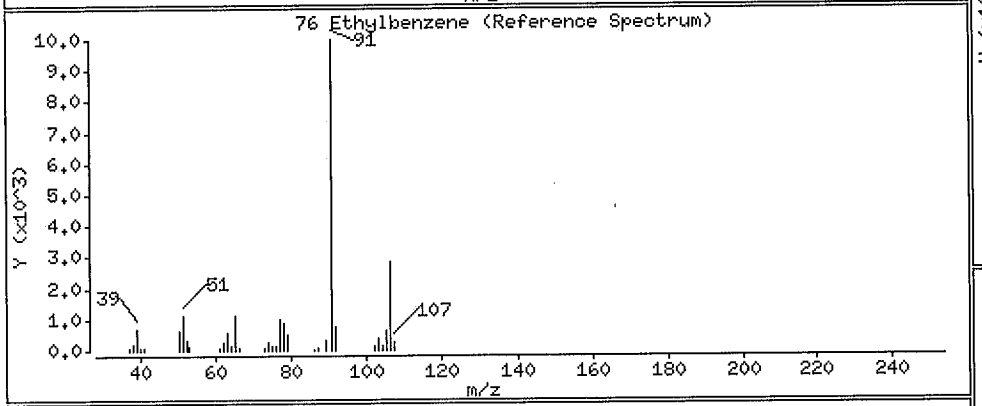
Concentration: 0.5041 ppb(v/v)

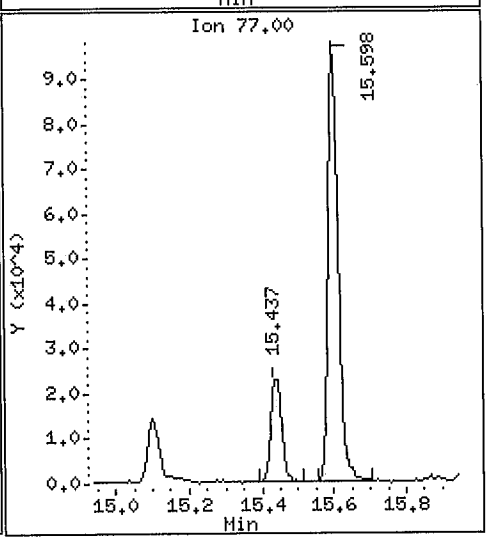


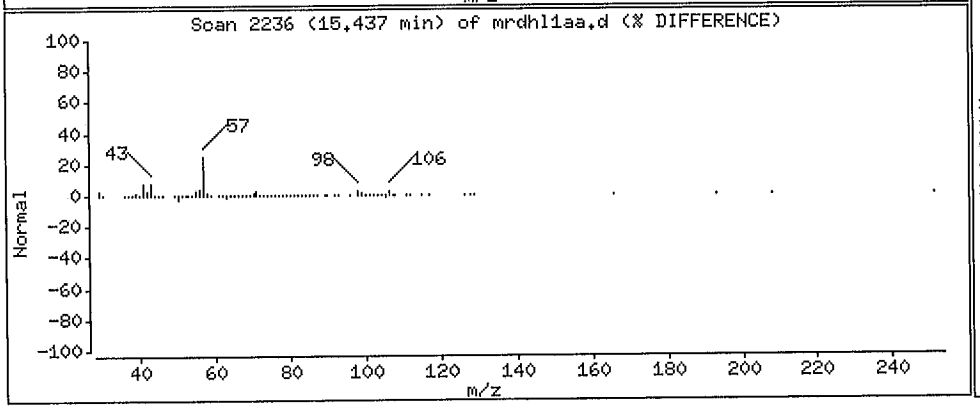












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

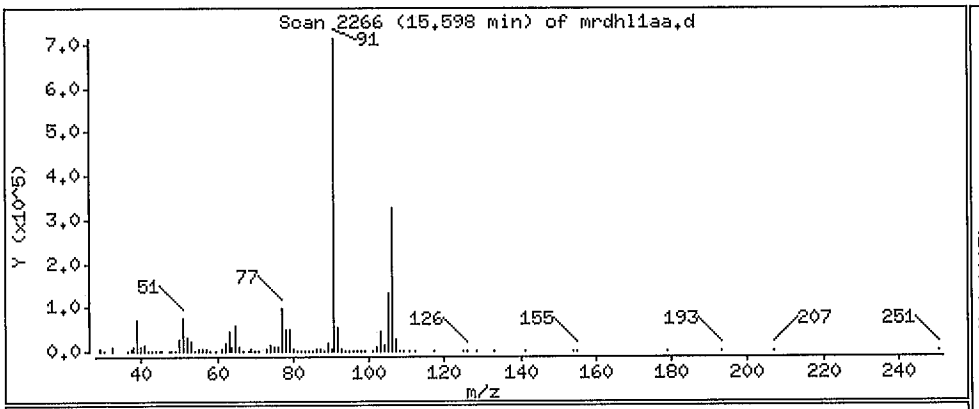
Operator: 7126

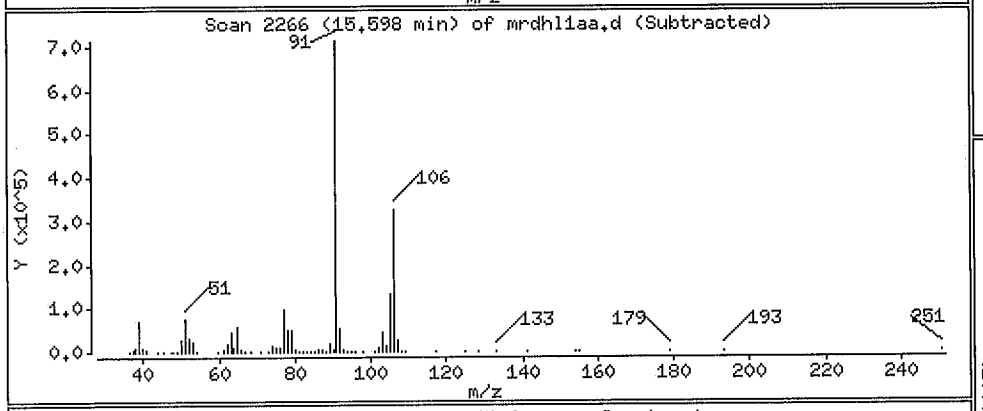
Column phase: Rtx-5

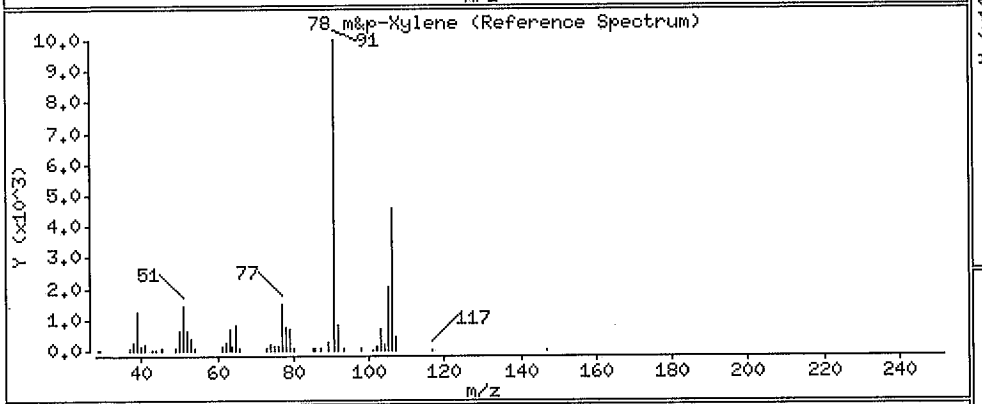
Column diameter: 0.32

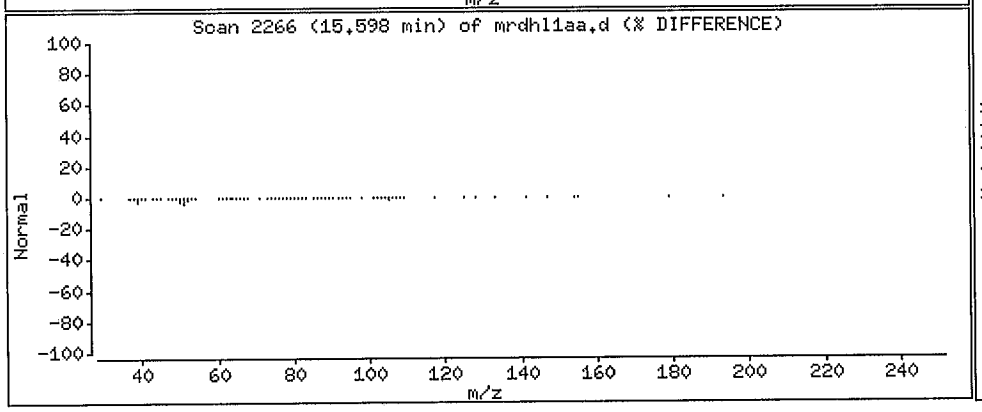
78 m&p-Xylene

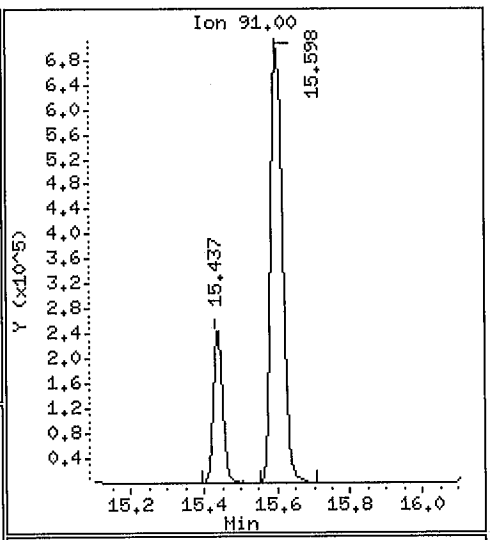
Concentration: 2.079 ppb(v/v)

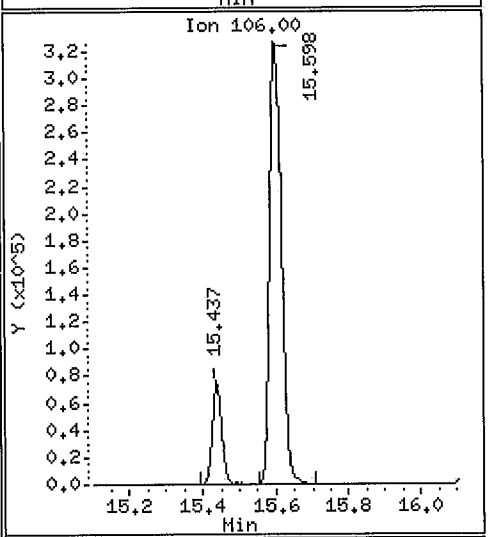


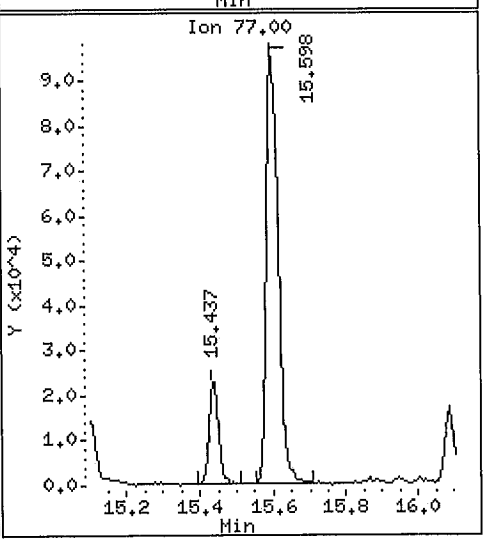












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

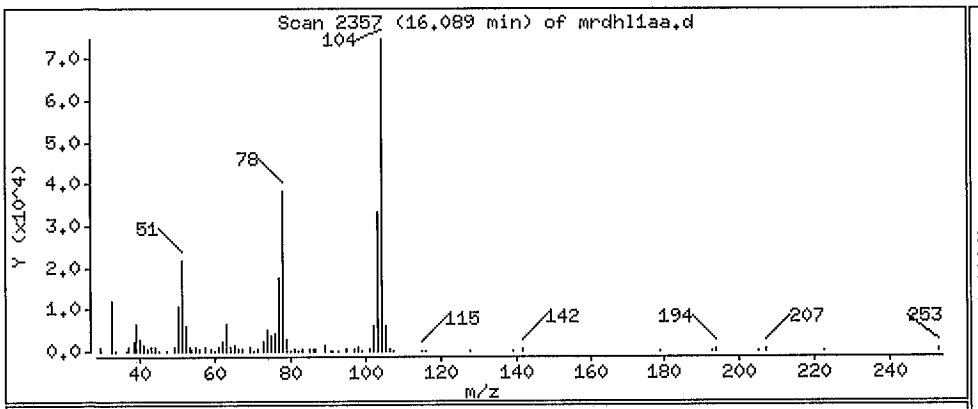
Operator: 7126

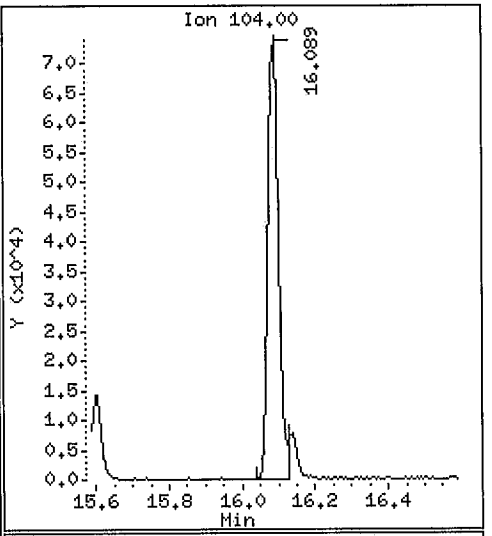
Column phase: Rtx-5

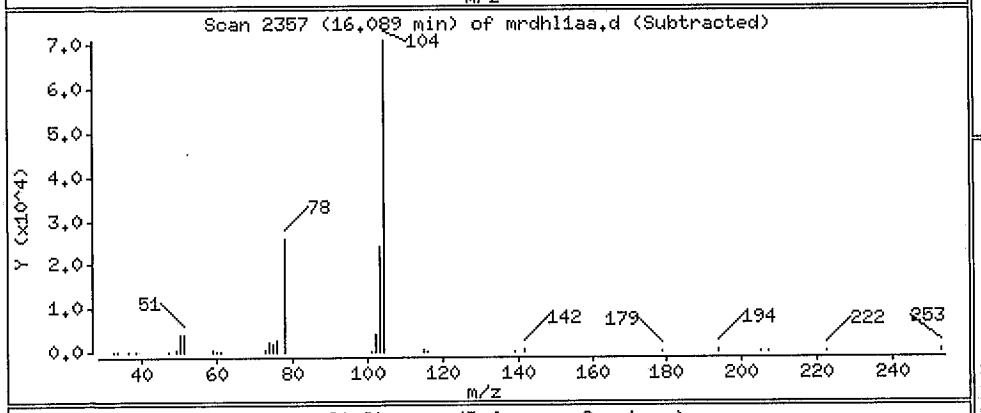
Column diameter: 0.32

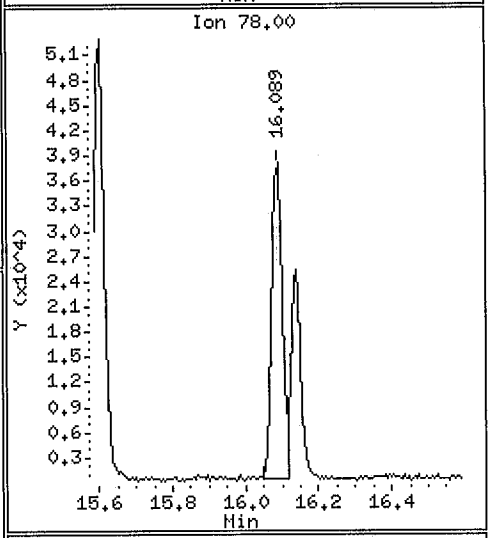
81 Styrene

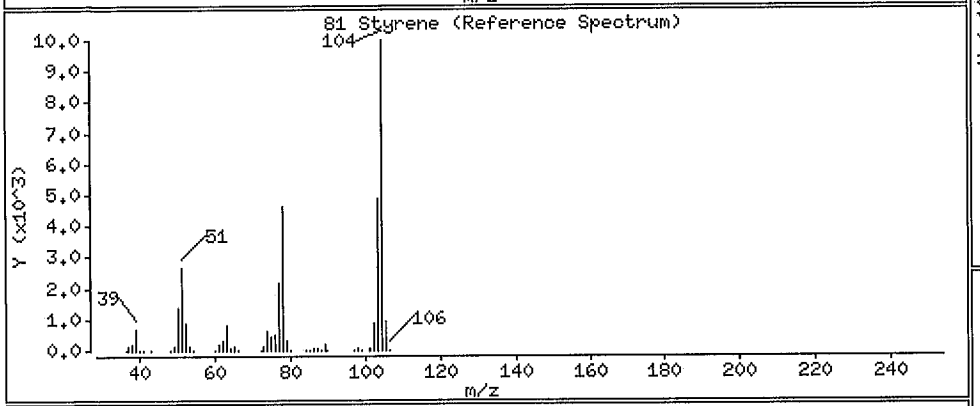
Concentration: 0.2614 ppb(v/v)

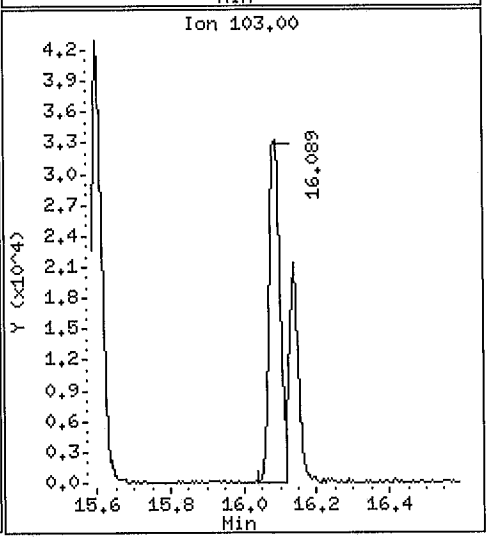


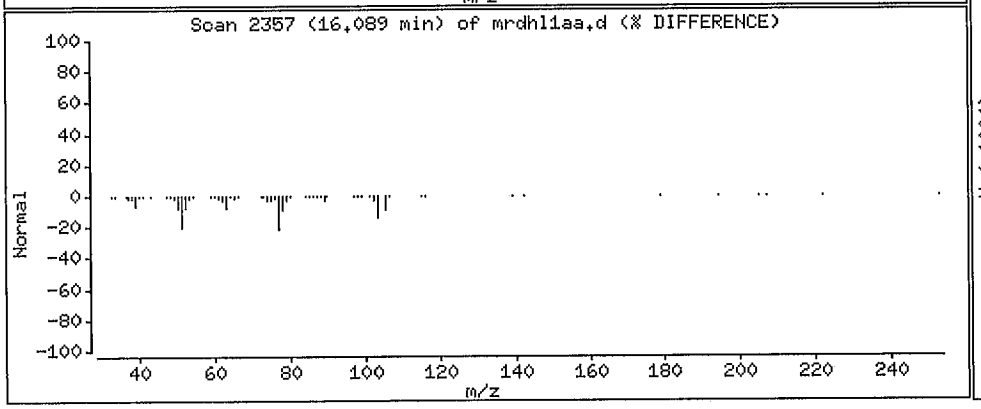












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

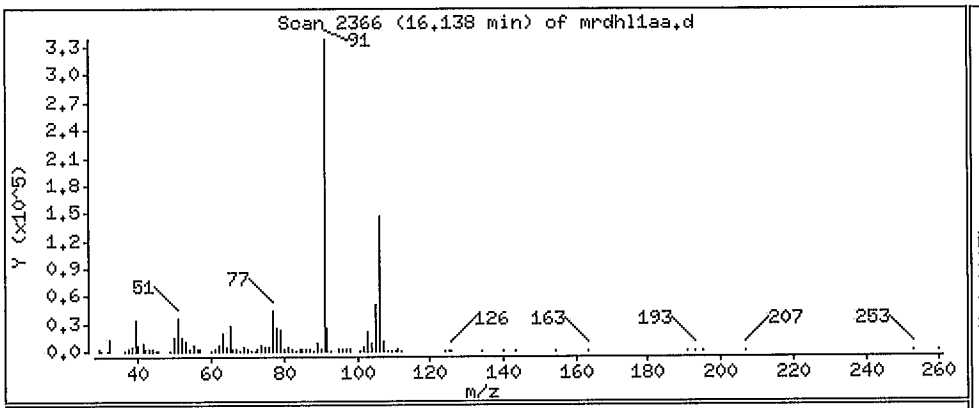
Operator: 7126

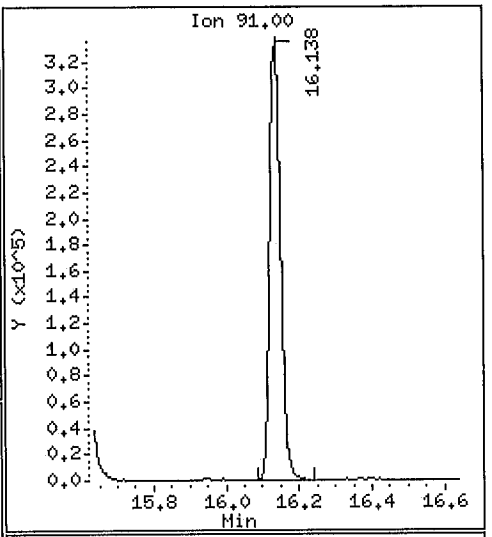
Column phase: Rtx-5

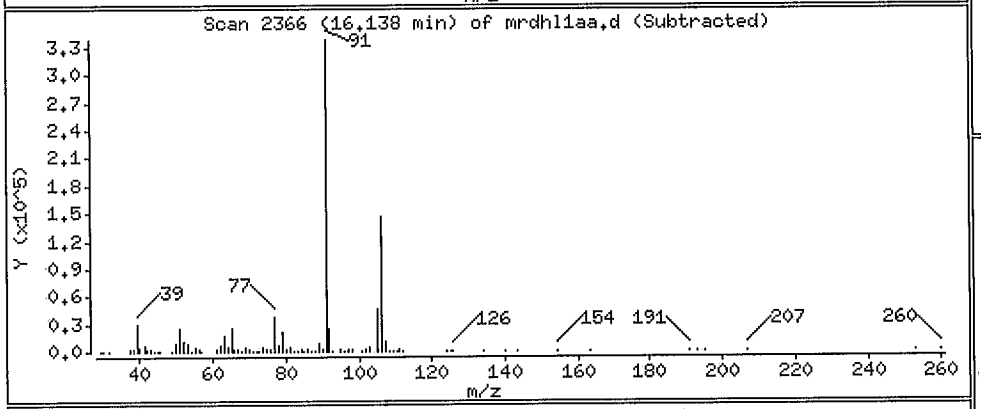
Column diameter: 0.32

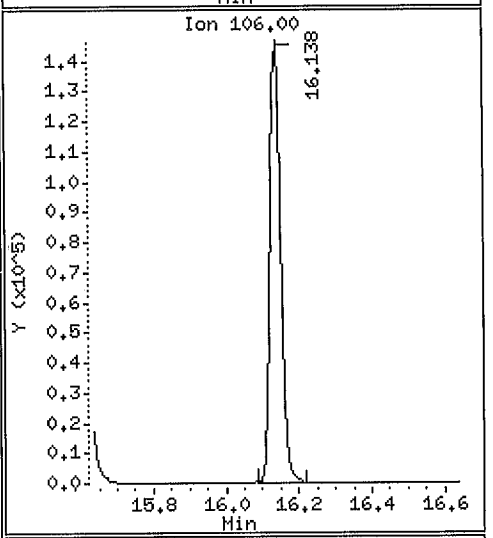
82 o-Xylene

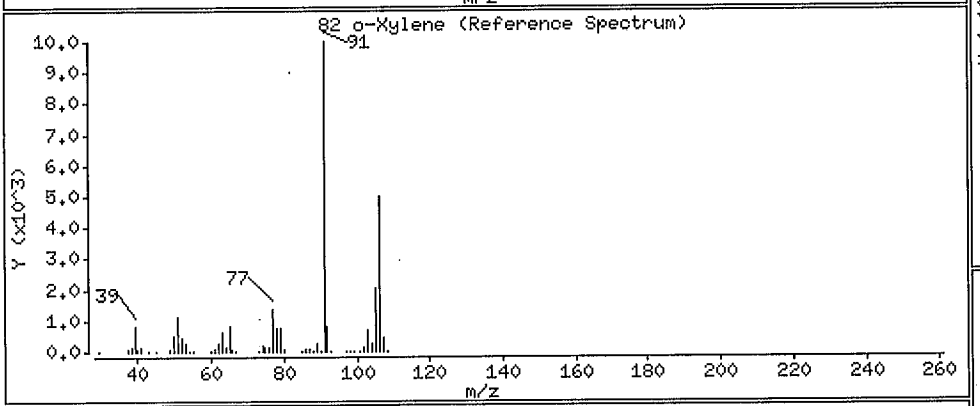
Concentration: 0.8460 ppb(v/v)

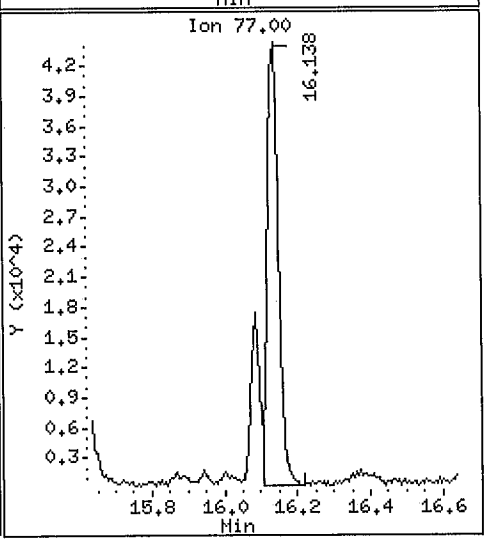


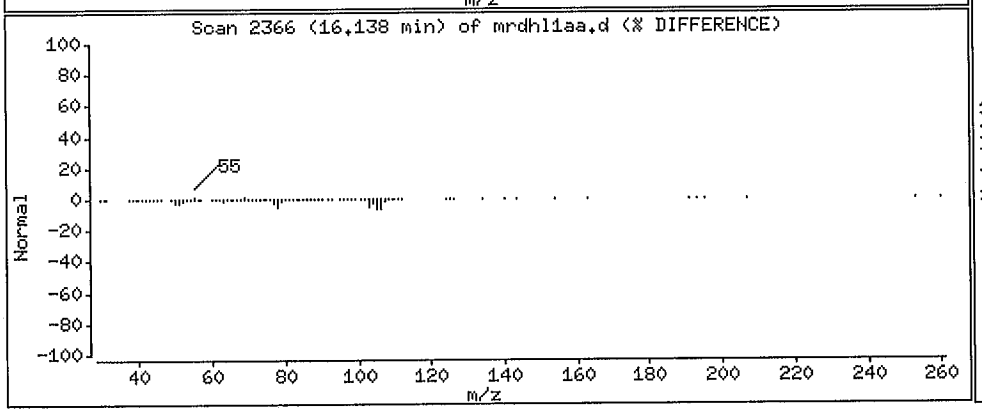












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

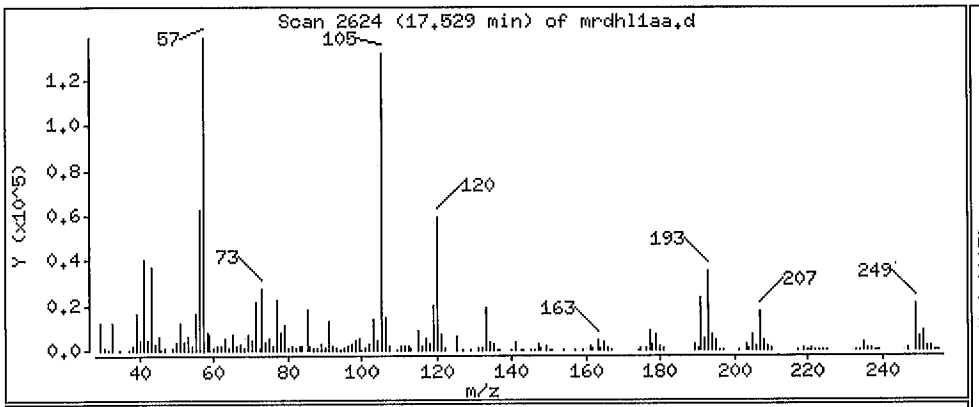
Operator: 7126

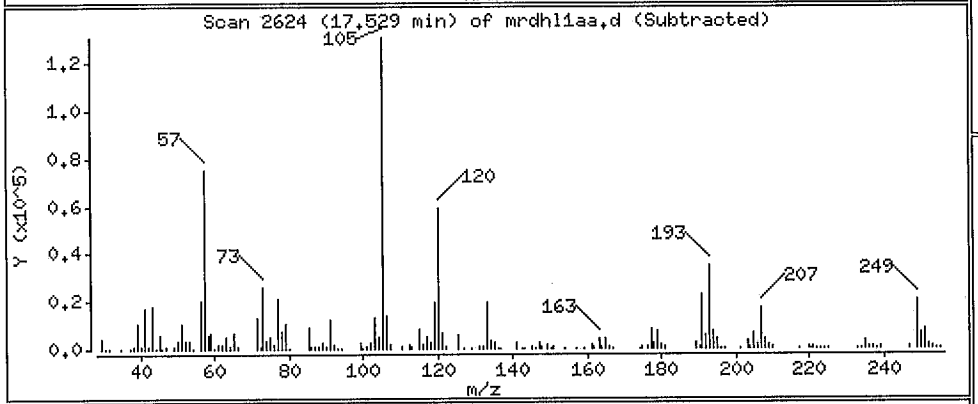
Column phase: Rtx-5

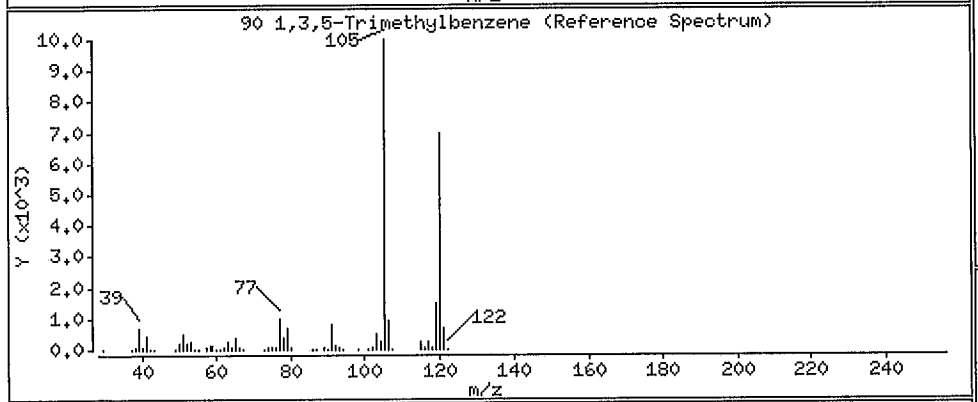
Column diameter: 0.32

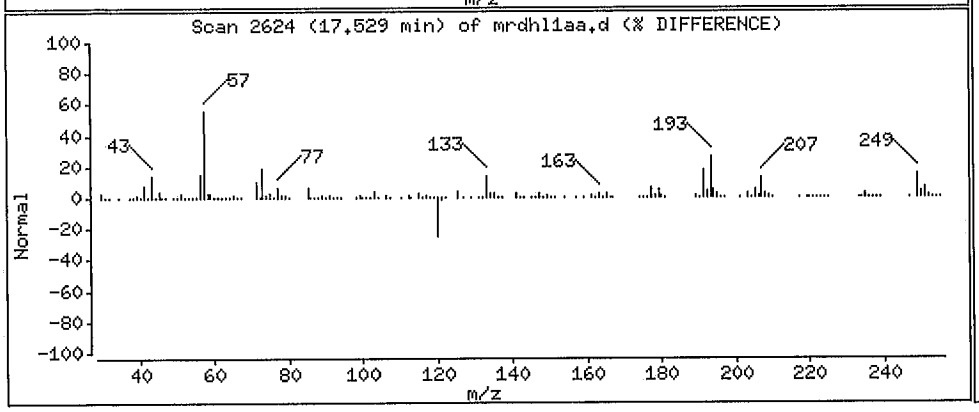
90 1,3,5-Trimethylbenzene

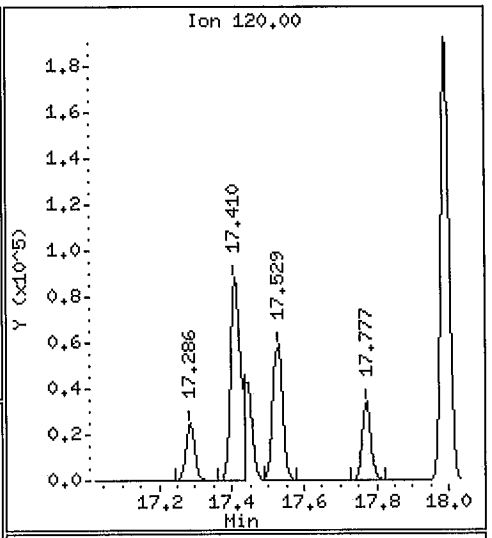
Concentration: 0.2209 ppb(v/v)

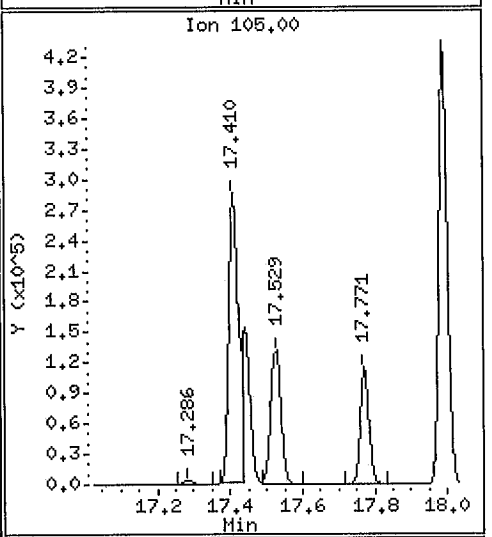


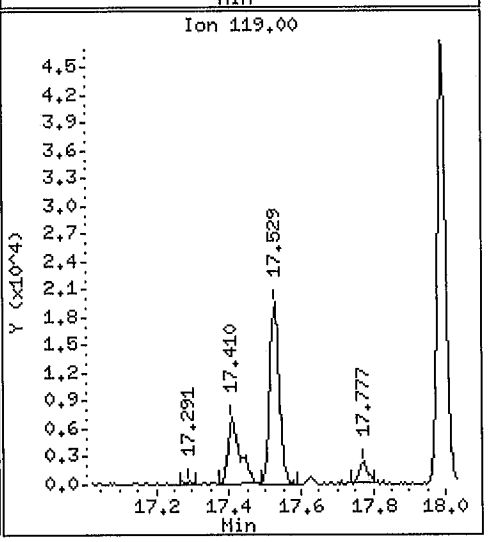












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

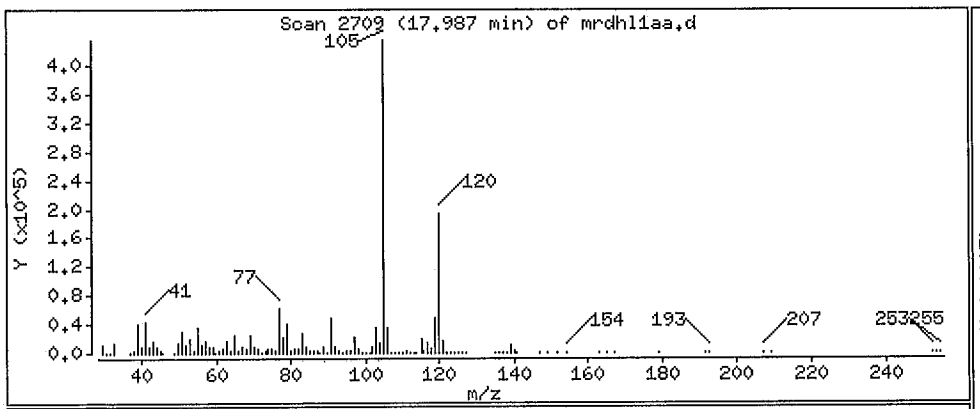
Operator: 7126

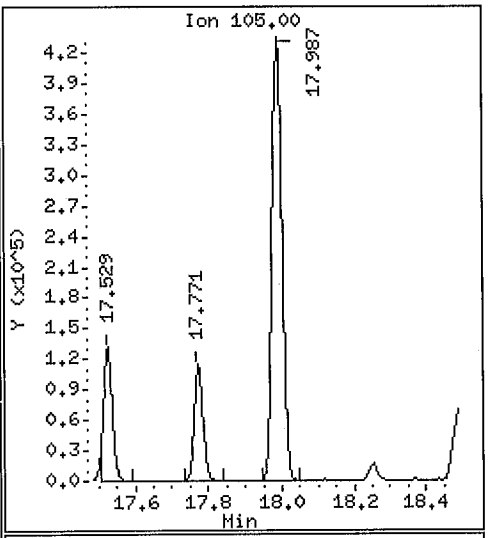
Column phase: Rtx-5

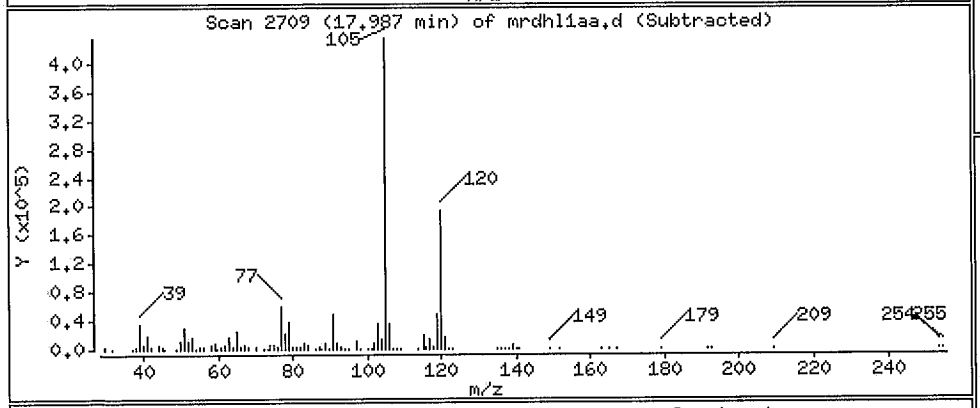
Column diameter: 0.32

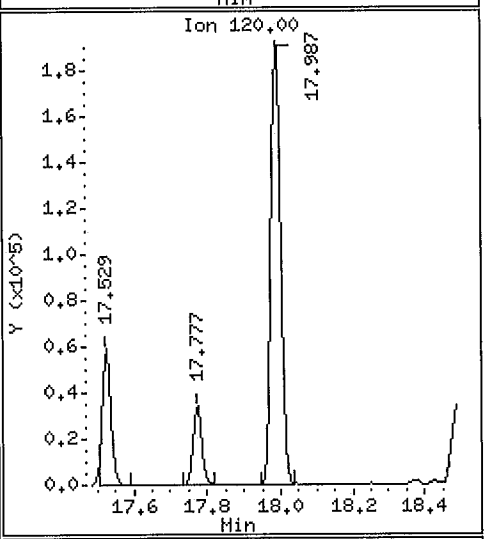
94 1,2,4-Trimethylbenzene

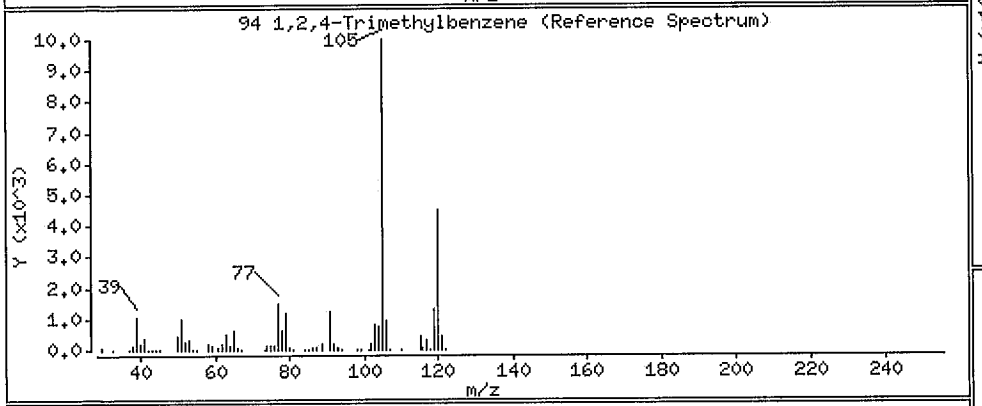
Concentration: 0.8839 ppb(v/v)

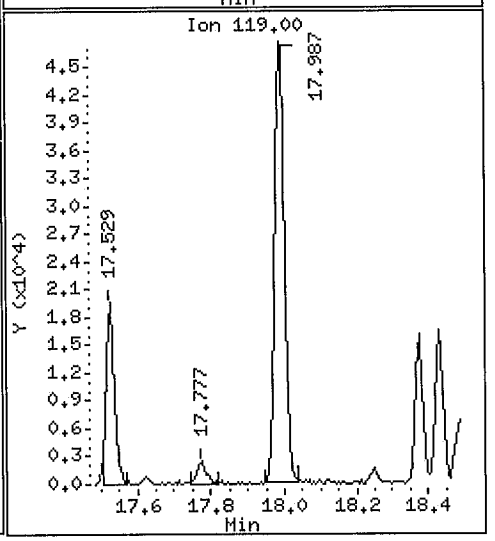


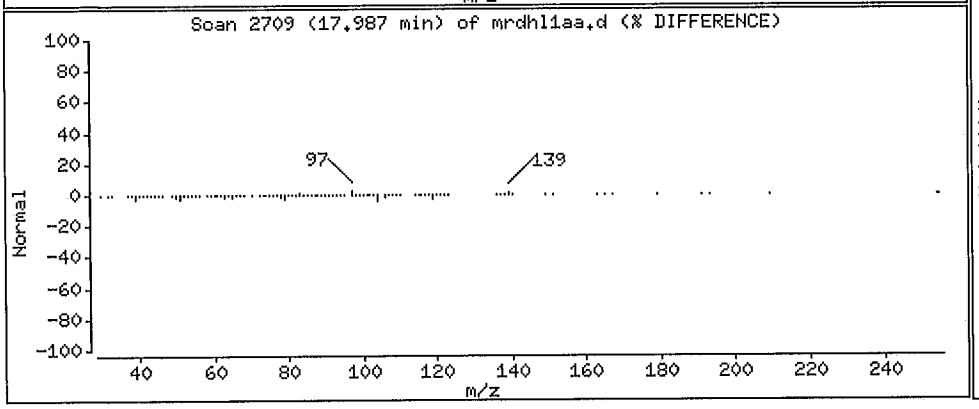












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhl1aa.d

Date : 13-MAR-2012 19:12

Client ID: HOUSE # 2 SS DUP

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

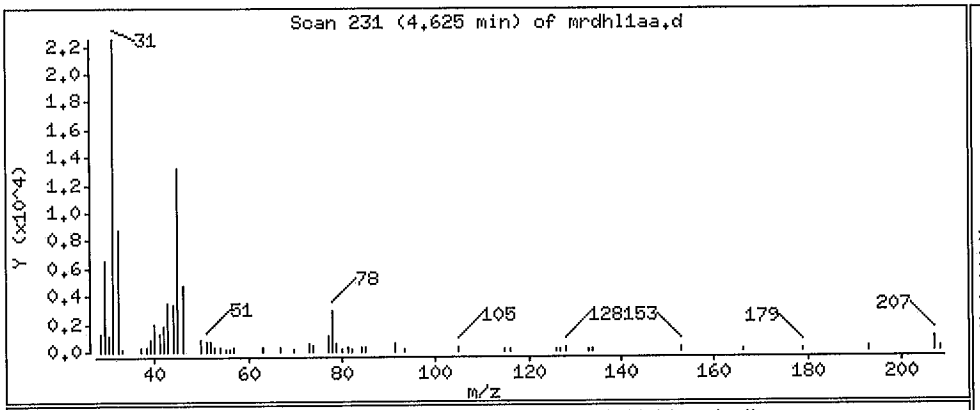
Operator: 7126

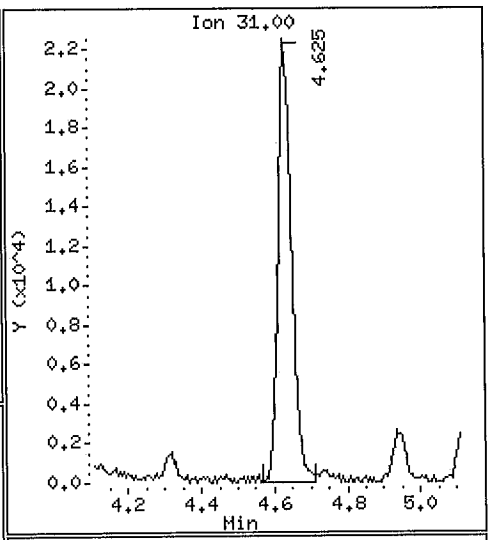
Column phase: Rtx-5

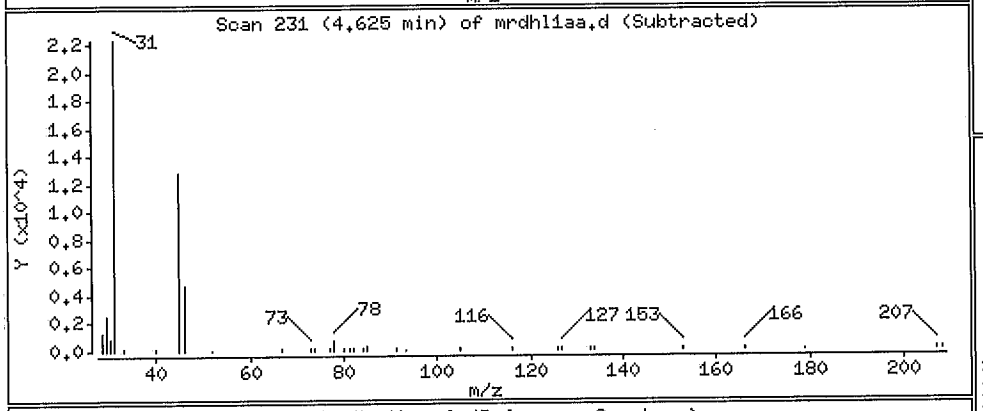
Column diameter: 0.32

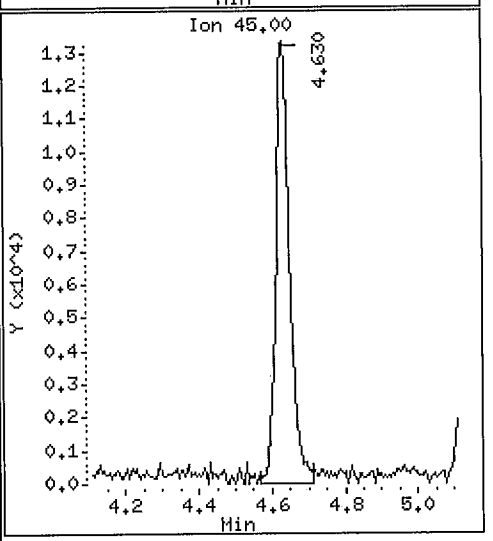
17 ^ ethanol

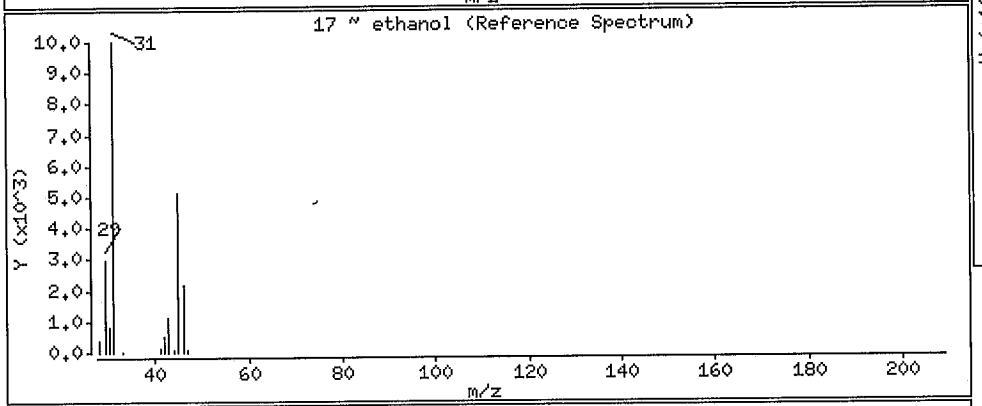
Concentration: 1.051 ppb(v/v)

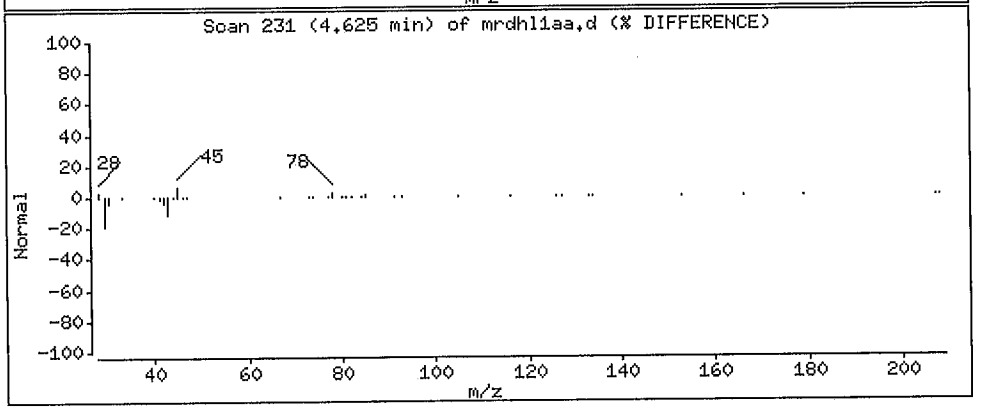












New York State D.E.C.

Client Sample ID: HOUSE # 2 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 005 **Work Order #** MRDHM1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/13/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**0.46**	**0.080**	**2.2**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.10**	**0.080**	**0.51**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	**0.33**	**0.20**	**1.2**	**0.72**
2-Butanone (MEK)	**0.87**	**0.32**	**2.6**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	**0.70**	**0.20**	**3.3**	**0.93**
Benzene	**1.9**	**0.080**	**6.2**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.077**	**0.040**	**0.48**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.84**	**0.080**	**4.1**	**0.39**
Cyclohexane	**0.84**	**0.20**	**2.9**	**0.69**
Chloromethane	**1.1**	**0.20**	**2.3**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.50**	**0.080**	**2.5**	**0.40**
Ethanol	**77**	**0.80**	**140**	**1.5**
Ethylbenzene	**1.3**	**0.080**	**5.4**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**4.1**	**0.20**	**15**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82

New York State D.E.C.

Client Sample ID: HOUSE # 2 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 005 **Work Order #** MRDHM1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	**0.20**	**0.20**	**0.71**	**0.69**
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	**0.22**	**0.080**	**1.5**	**0.54**
Toluene	**6.9**	**0.080**	**26**	**0.30**
m-Xylene & p-Xylene	**3.3**	**0.080**	**14**	**0.35**
o-Xylene	**1.1**	**0.080**	**4.6**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.18**	**0.080**	**1.0**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d
Lab Smp Id: MRDHM1AA Client Smp ID: HOUSE # 2 INDOOR
Inj Date : 13-MAR-2012 20:16
Operator : 7126 Inst ID: mg.i
Smp Info : ,,0,,,
Misc Info : G031312,TO15,nysdec.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 14-Mar-2012 13:23 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

3/16/12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.167	8.168	(1.000)	615200	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.287	10.281	(1.000)	3226984	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.102	15.102	(1.000)	3097929	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.774	16.779	(1.111)	2477071	4.41572	4.416
7 Dichlorodifluoromethane	85	3.730	3.724	(0.457)	294205	0.49844	0.4984
8 Chloromethane	52	3.881	3.875	(0.475)	64503	1.13009	1.130
20 Trichlorofluoromethane	101	4.948	4.943	(0.606)	107620	0.18166	0.1816
28 tert-butanol	59	5.822	5.736	(0.713)	13174	0.05440	0.05440
31 Methylene Chloride	84	5.870	5.870	(0.719)	33806	0.20323	0.2032
40 Hexane	56	7.423	7.418	(0.909)	736481	4.13473	4.135
39 2-Butanone	72	7.558	7.553	(0.925)	72812	0.87355	0.8736
43 Chloroform	83	8.184	8.178	(1.002)	374897	0.83985	0.8398
49 Cyclohexane	69	9.650	9.645	(0.938)	96625	0.84016	0.8402
48 Benzene	78	9.699	9.699	(0.943)	1174739	1.93660	1.937
50 Carbon Tetrachloride	117	9.710	9.710	(0.944)	40188	0.07691	0.07691
53 2,2,4-trimethylpentane	57	10.411	10.411	(1.012)	705758	0.69960	0.6996

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d
Report Date: 14-Mar-2012 13:24

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
59 1,4-dioxane	88	11.430	11.381	(1.111)	25806	0.33370	0.3337
65 Toluene	91	13.080	13.085	(0.866)	5232428	6.93310	6.933
73 Tetrachloroethene	129	14.239	14.234	(0.943)	63051	0.21749	0.2175
76 Ethylbenzene	91	15.442	15.442	(1.022)	1192158	1.25205	1.252
78 m&p-Xylene	91	15.598	15.604	(1.033)	2421986	3.26915	3.269
82 o-Xylene	91	16.137	16.138	(1.069)	826294	1.06965	1.070
90 1,3,5-Trimethylbenzene	120	17.529	17.529	(1.161)	50787	0.10408	0.1041
94 1,2,4-Trimethylbenzene	105	17.987	17.987	(1.191)	395367	0.45735	0.4573
17 ~ ethanol	31	4.625	4.609	(0.566)	4382333	76.7456	76.74

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: mrdhm1aa.d
Lab Smp Id: MRDHM1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: HOUSE # 2 INDOOR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	615200	9.63
2 1,4-Difluorobenze	2909107	1730919	4087295	3226984	10.93
3 Chlorobenzene-d5	2830968	1684426	3977510	3097929	9.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.17	0.00
2 1,4-Difluorobenze	10.28	9.95	10.61	10.29	0.05
3 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

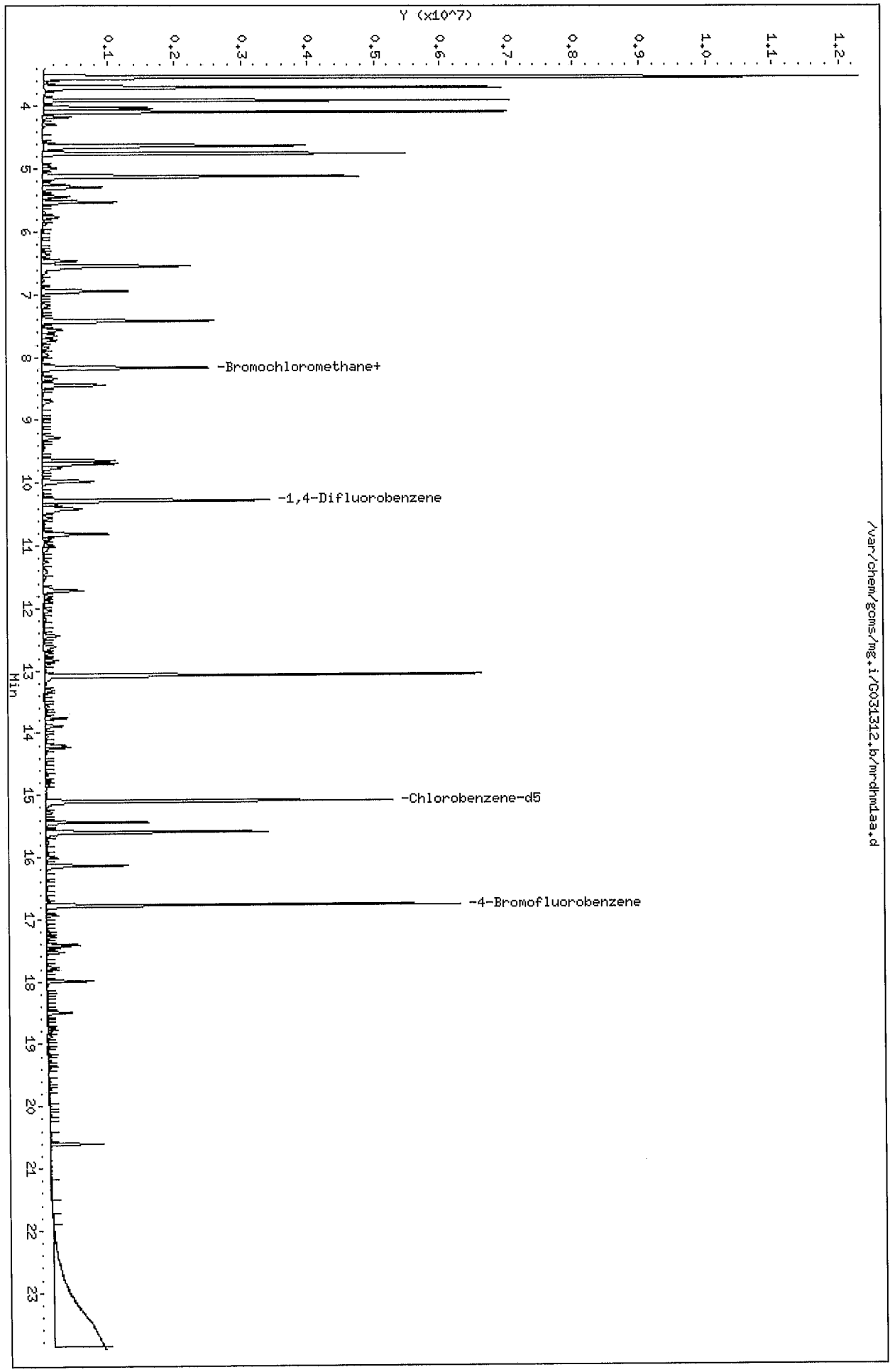
Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d
Report Date: 14-Mar-2012 13:24

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C10-MAR-2012 00:00 Client SDG: H2C130401
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MRDHM1AA Client Smp ID: HOUSE # 2 INDOOR
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.416	110.39	70-130


Data File: /var/chem/gcms/mg.i/G031312.b/mrdhmlaa.d
Date : 13-MAR-2012 20:16
Client ID: HOUSE # 2 INDOOR
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: mg.i
Operator: 7126
Column diameter: 0.32
Y (x10^7)
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
Min
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene
/var/chem/gcms/mg.i/G031312.b/mrdhmlaa.d

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

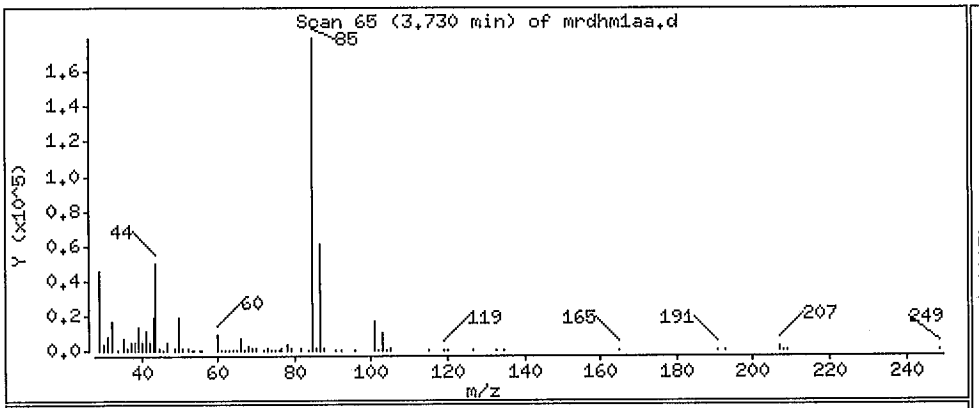
Operator: 7126

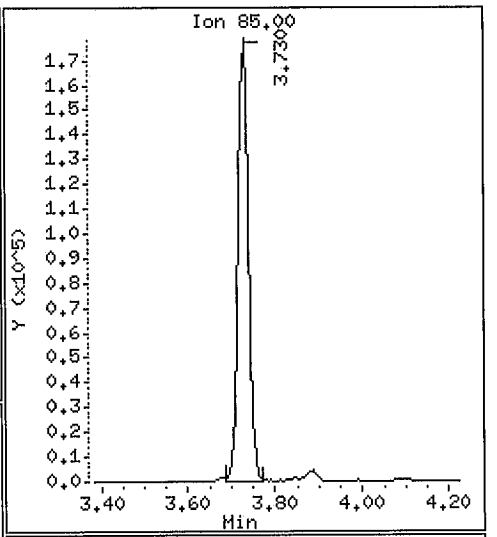
Column phase: Rtx-5

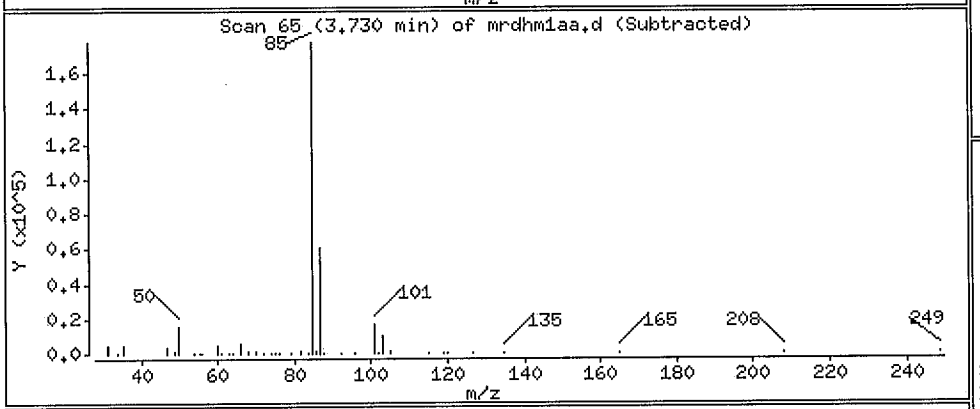
Column diameter: 0.32

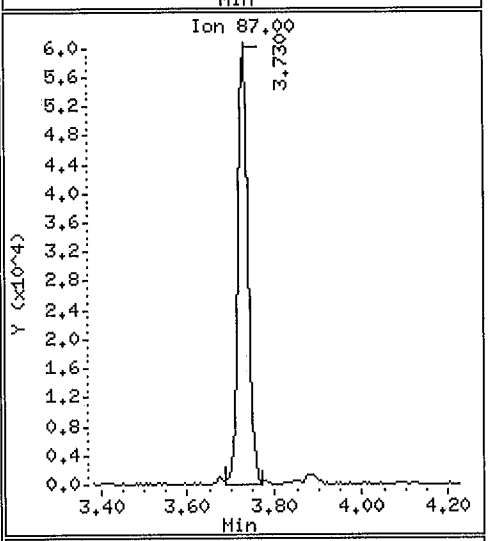
7 Dichlorodifluoromethane

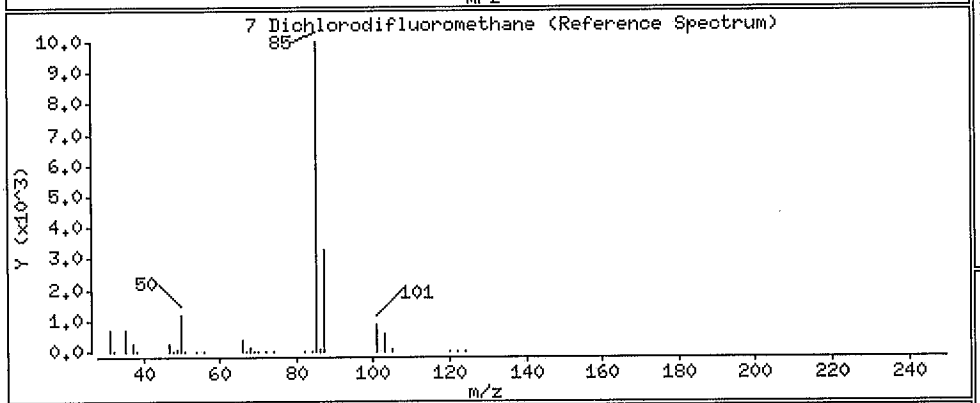
Concentration: 0.4984 ppb(v/v)

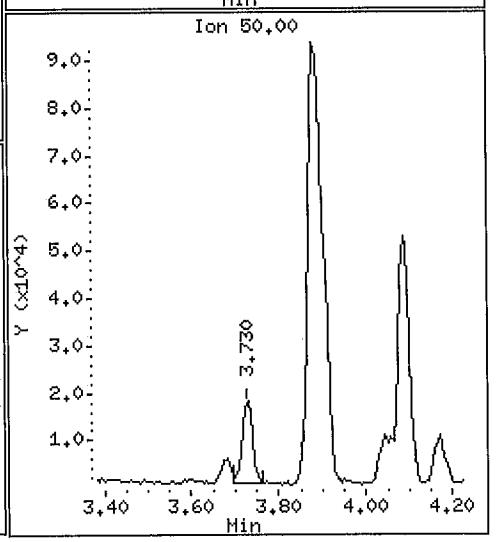


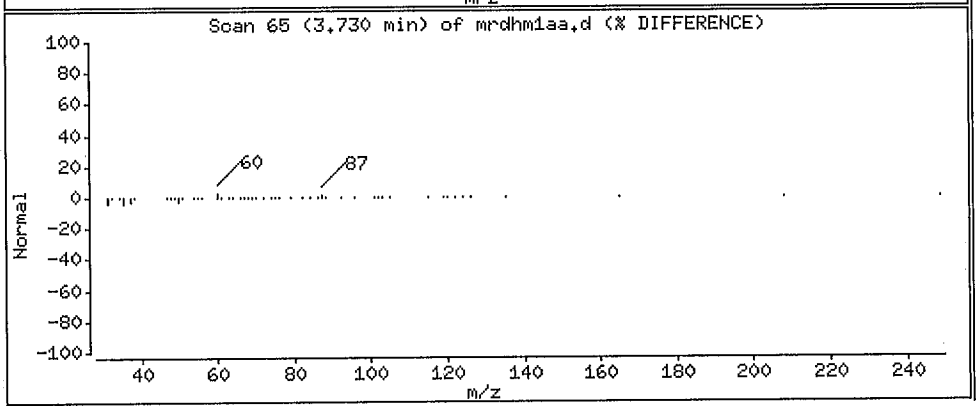












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

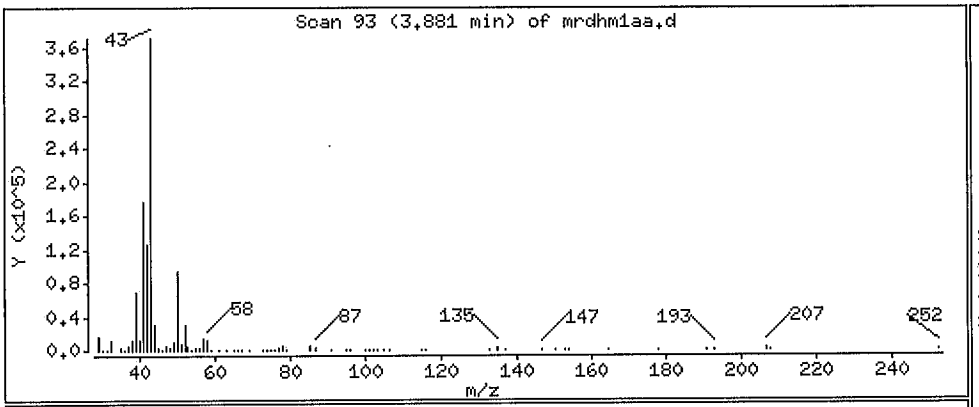
Operator: 7126

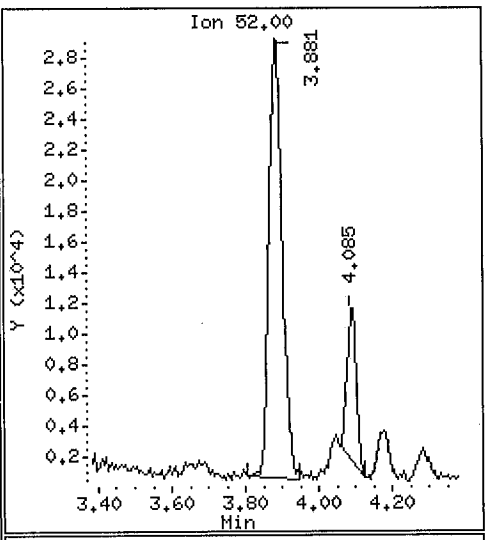
Column phase: Rtx-5

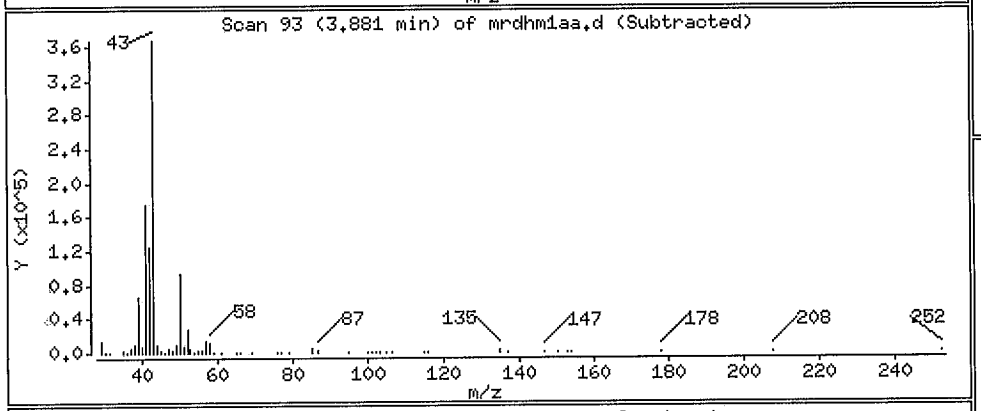
Column diameter: 0.32

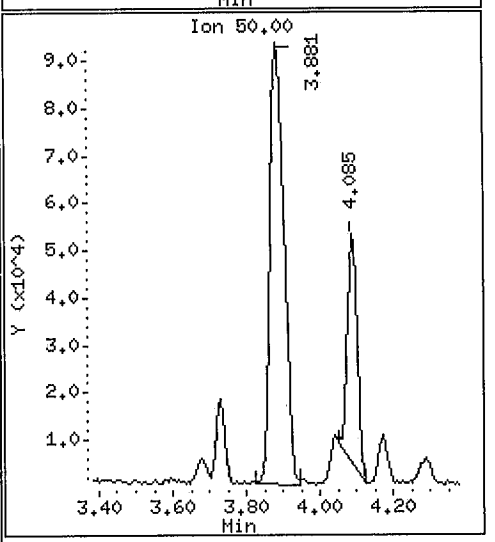
8 Chloromethane

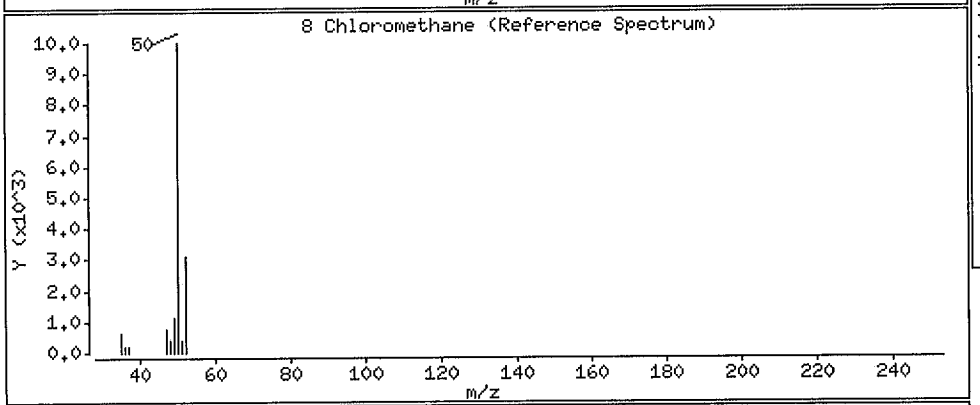
Concentration: 1.130 ppb(v/v)

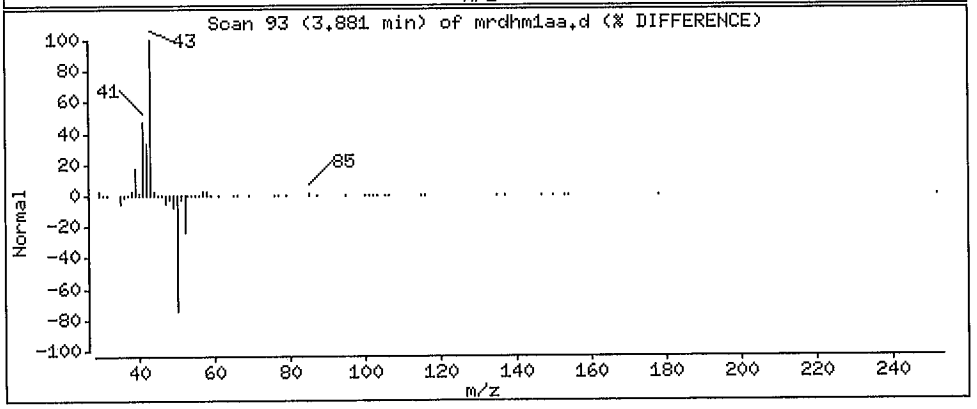












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

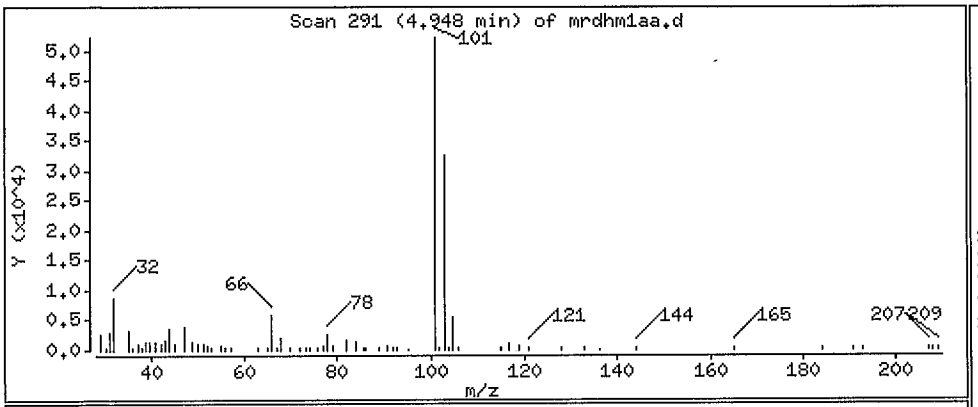
Operator: 7126

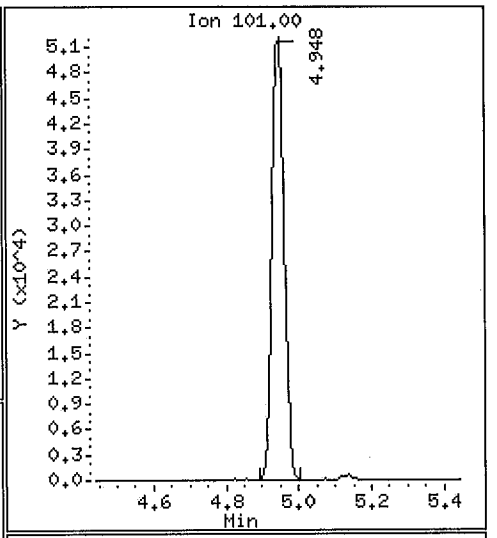
Column phase: Rtx-5

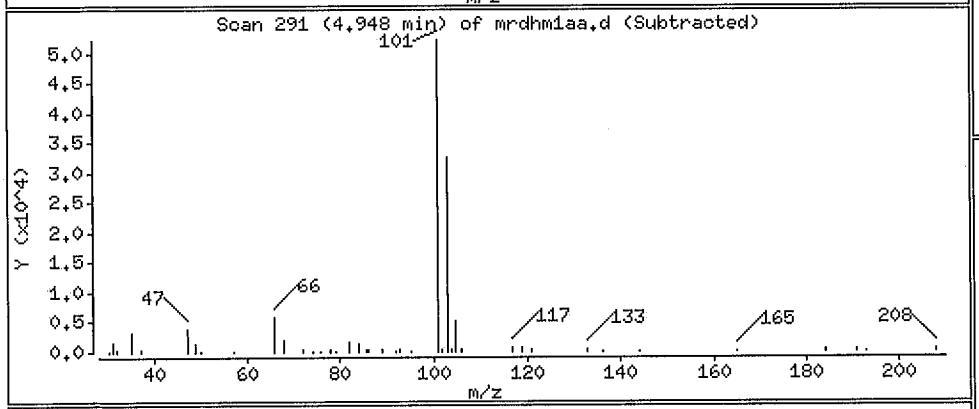
Column diameter: 0.32

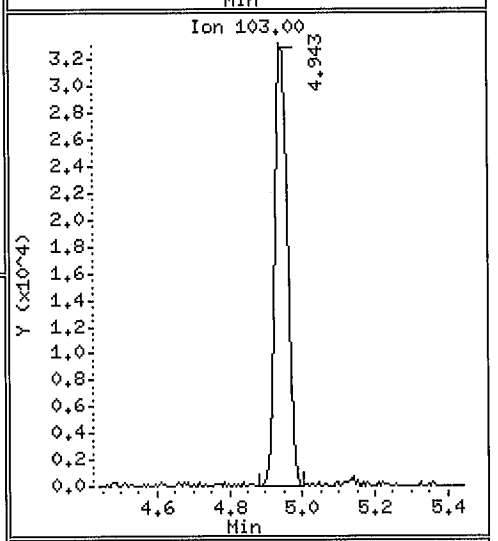
20 Trichlorofluoromethane

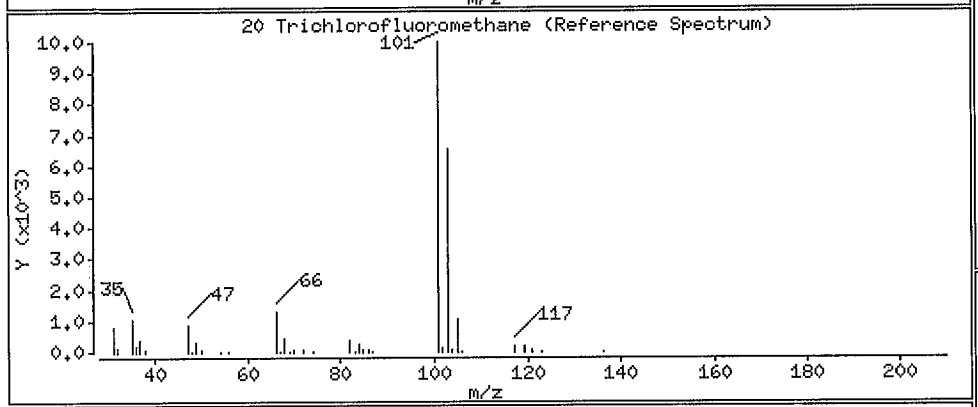
Concentration: 0.1816 ppb(v/v)

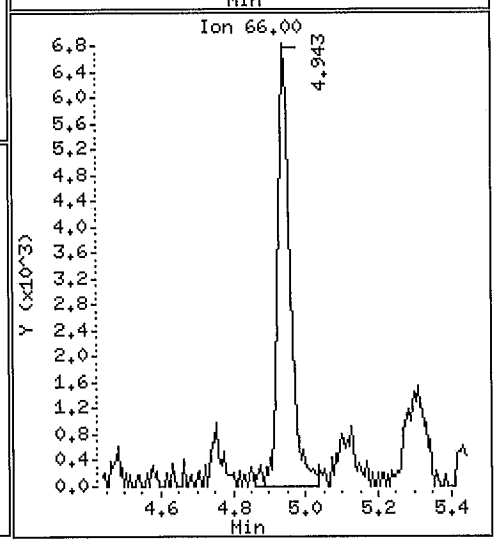


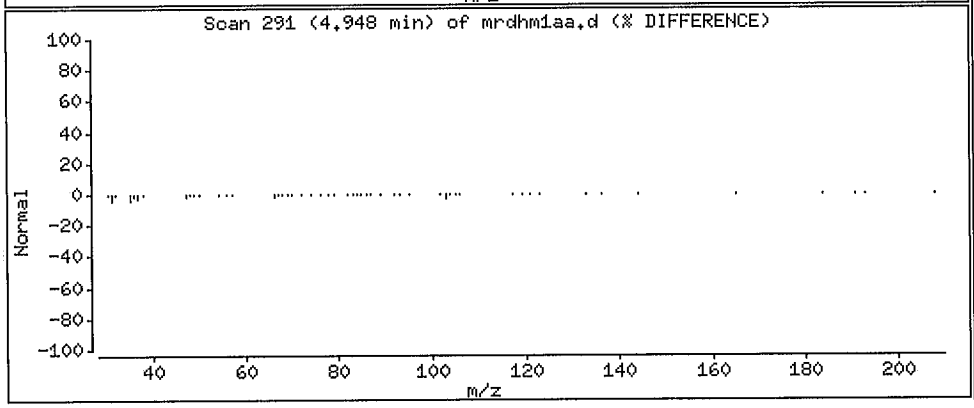












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

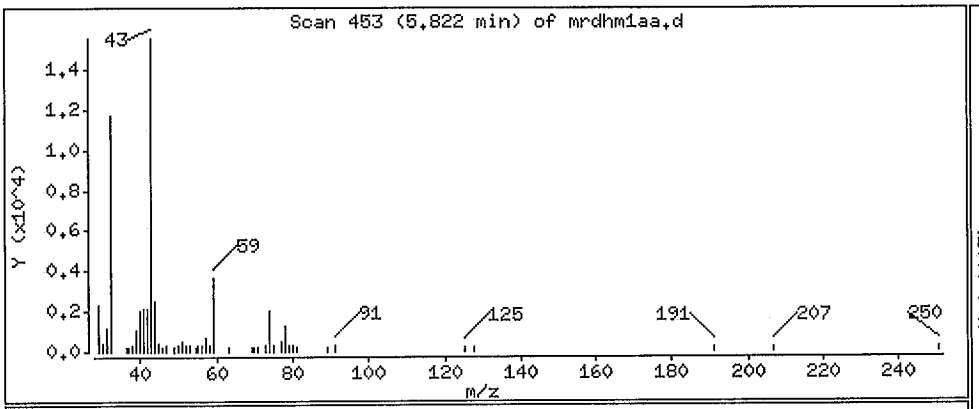
Operator: 7126

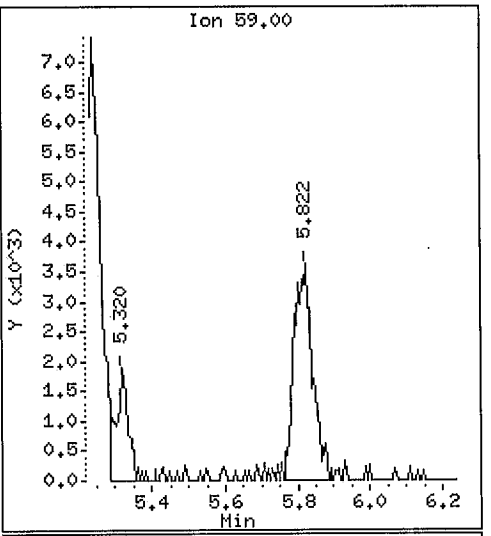
Column phase: Rtx-5

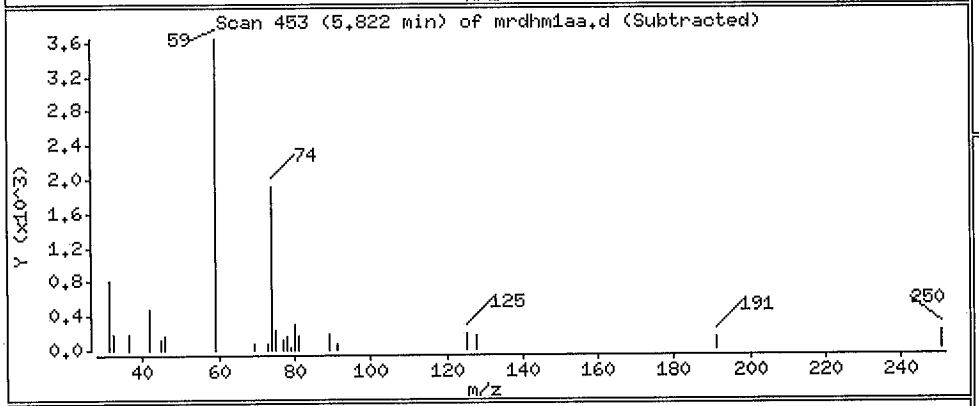
Column diameter: 0.32

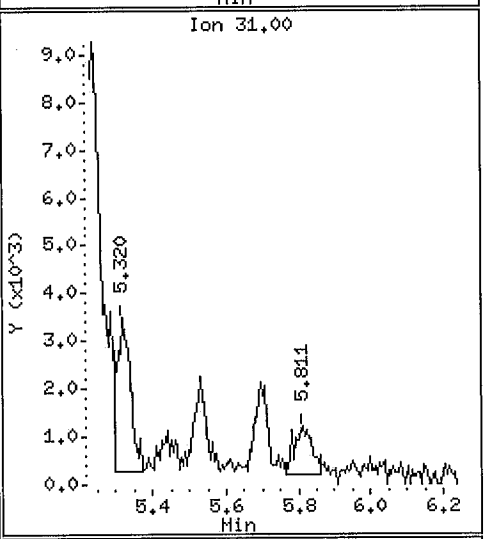
28 tert-butanol

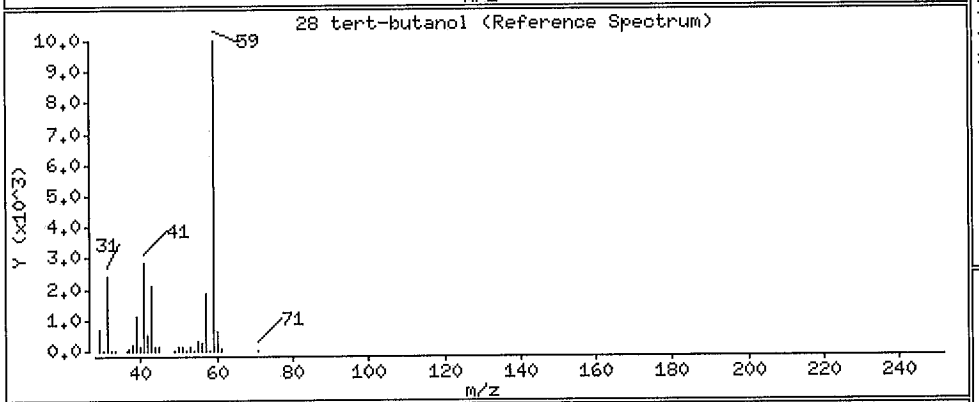
Concentration: 0.05440 ppb(v/v)

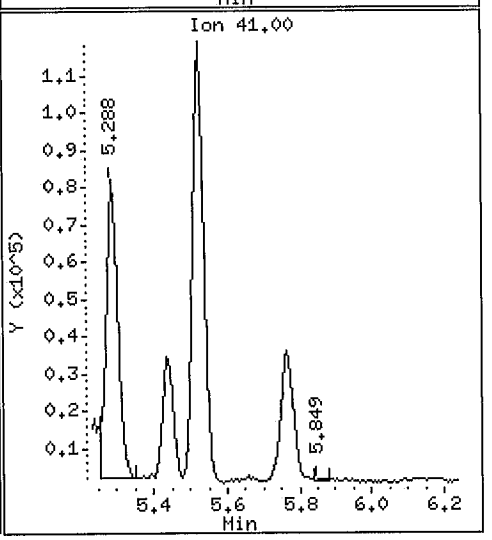


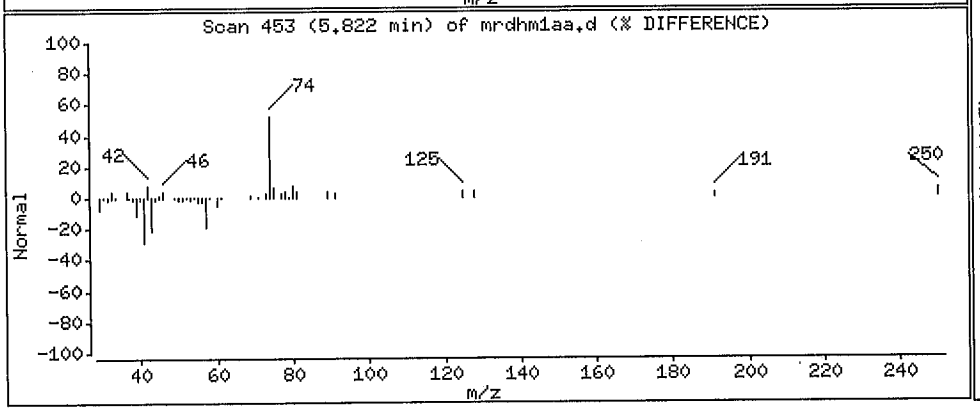












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

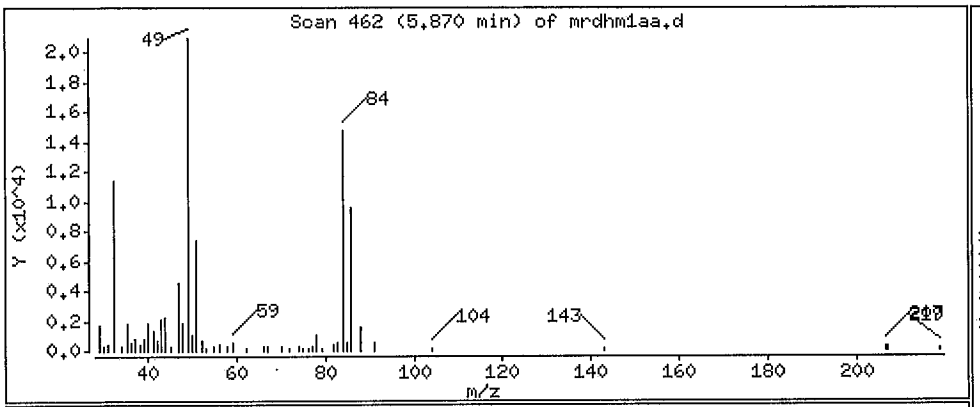
Operator: 7126

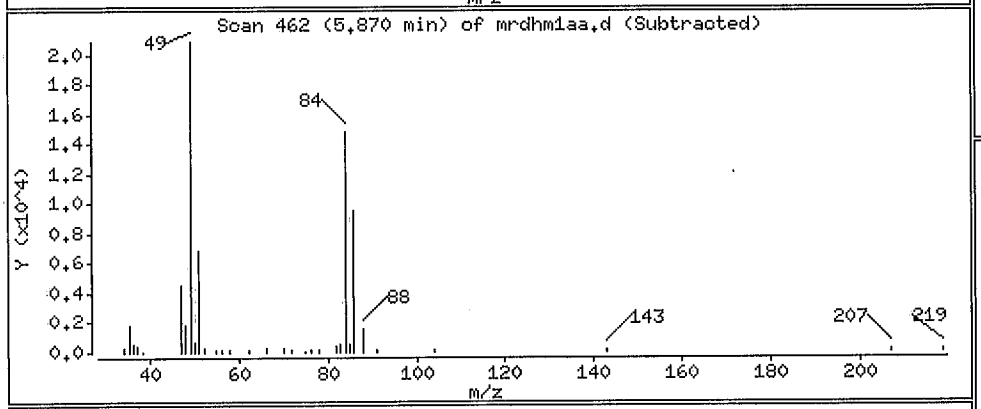
Column phase: Rtx-5

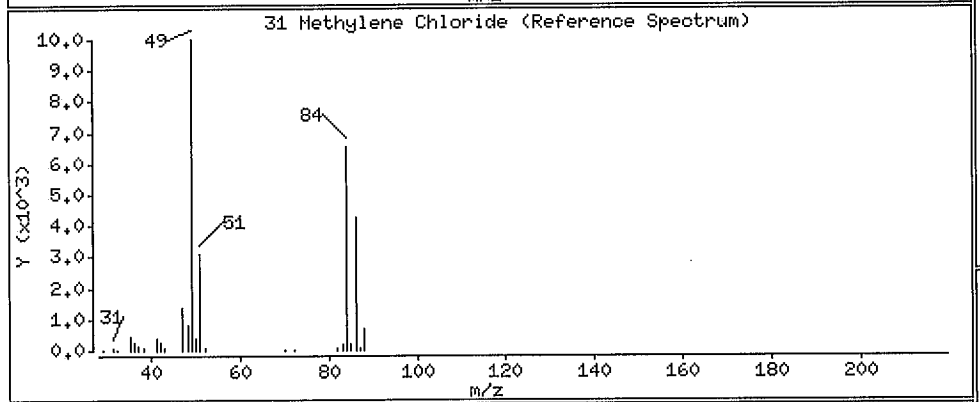
Column diameter: 0.32

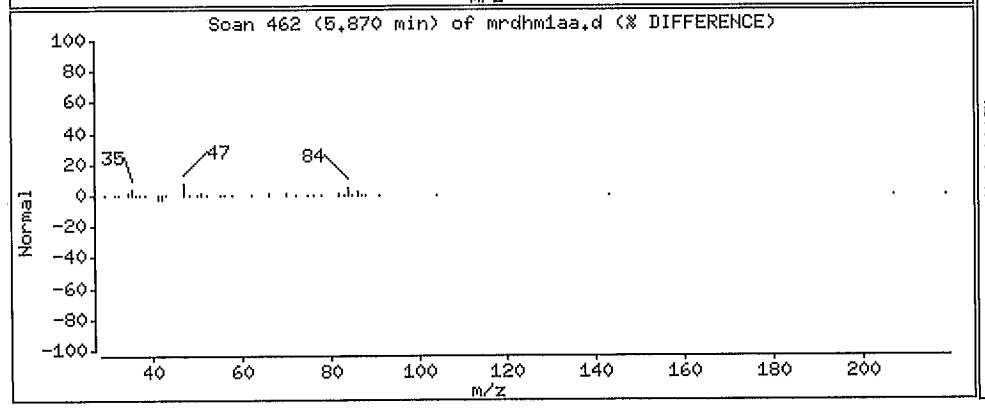
31 Methylene Chloride

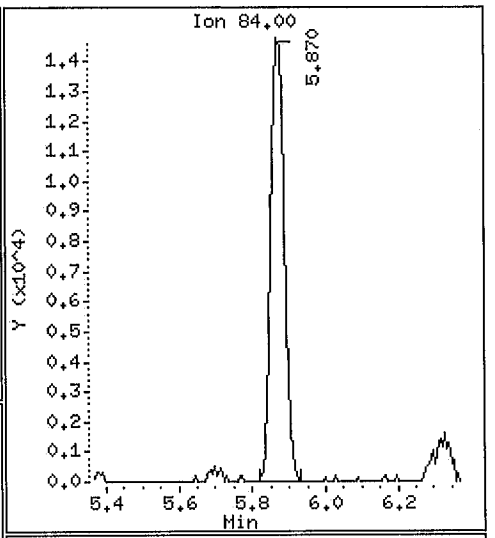
Concentration: 0.2032 ppb(v/v)

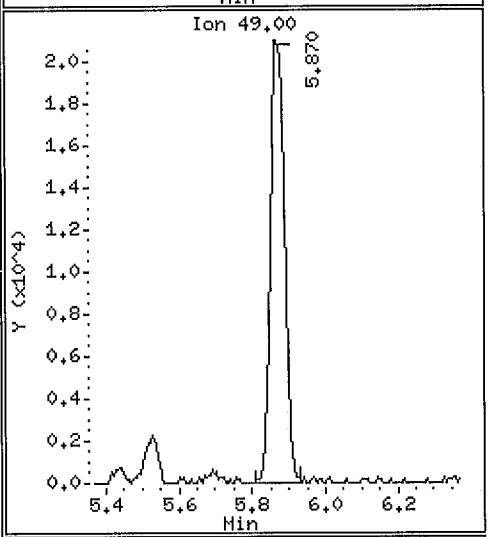


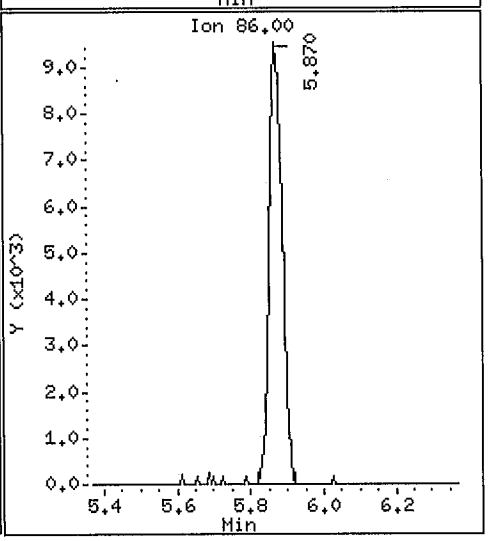












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

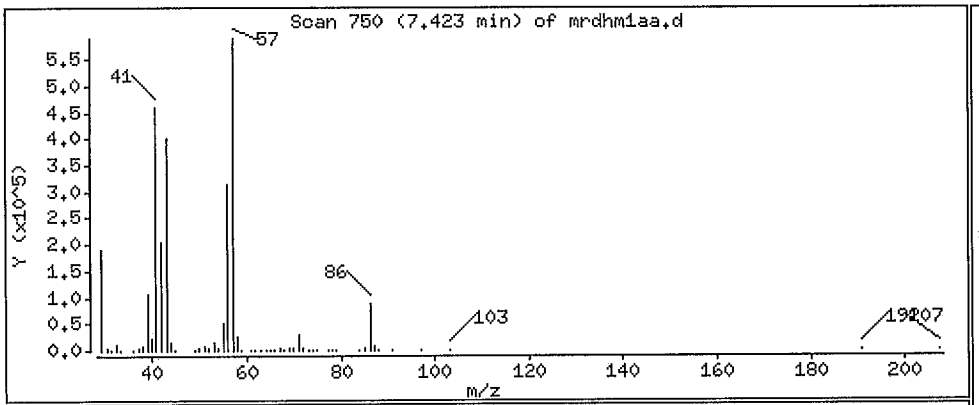
Operator: 7126

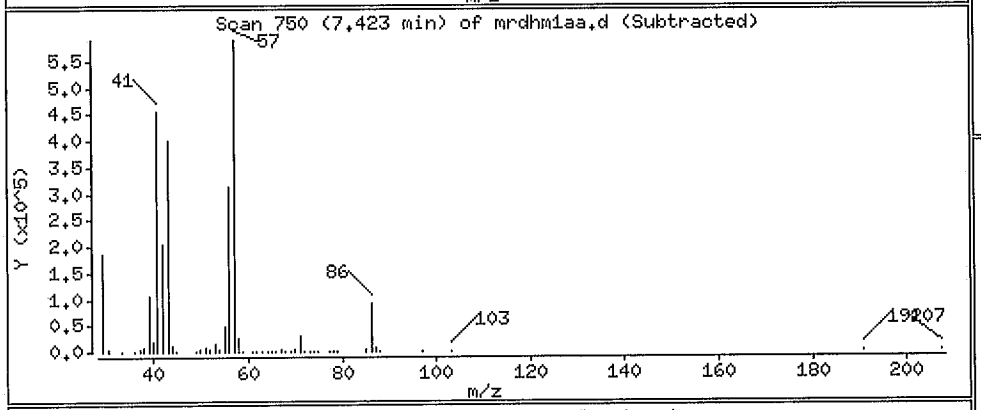
Column phase: Rtx-5

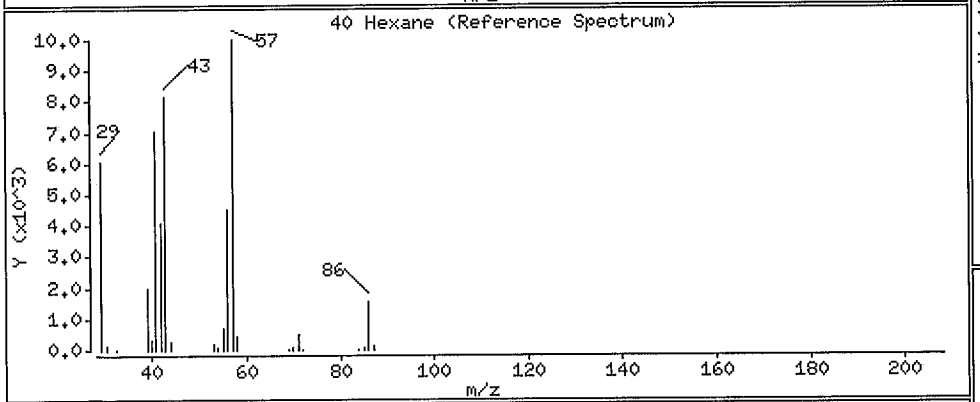
Column diameter: 0.32

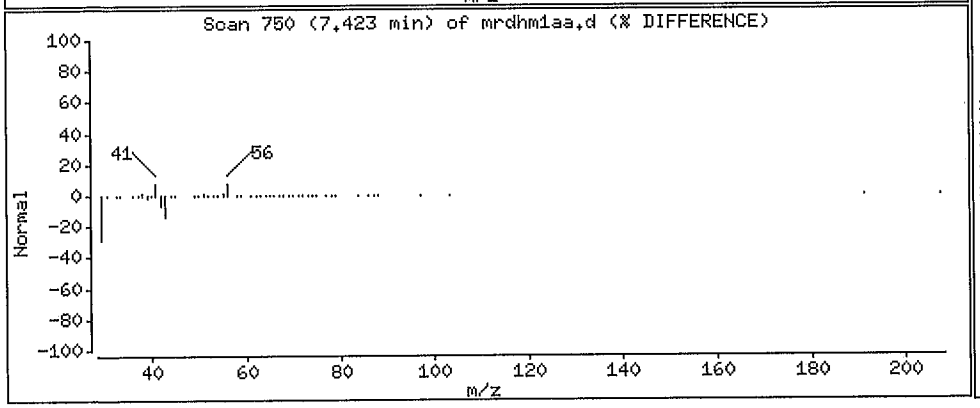
40 Hexane

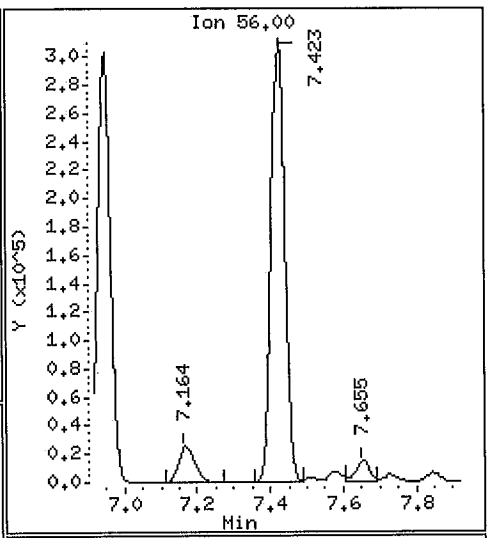
Concentration: 4.135 ppb(v/v)

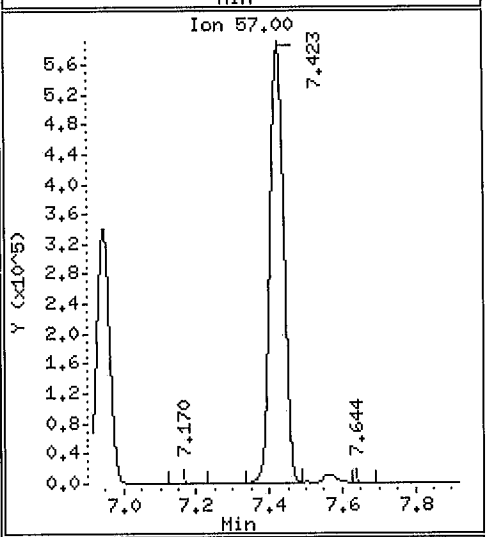


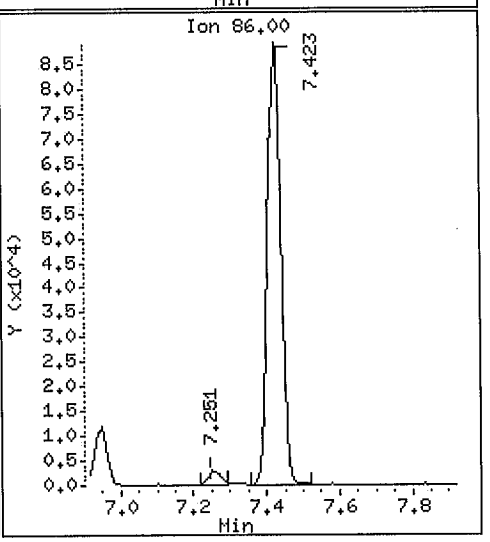












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

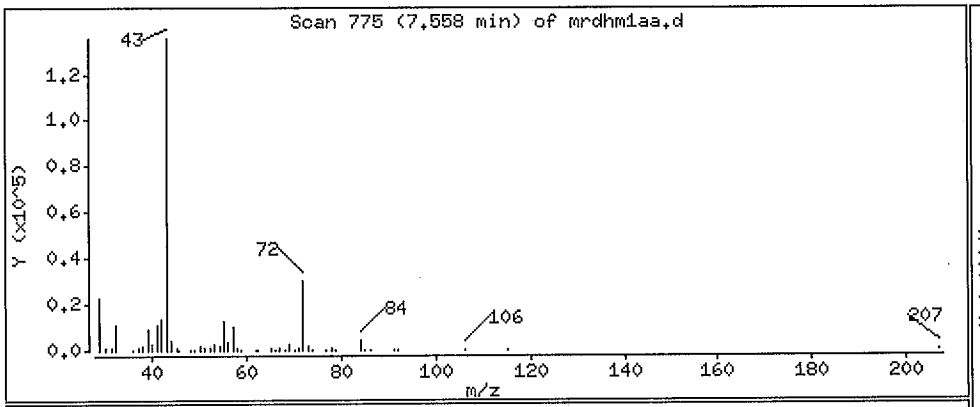
Operator: 7126

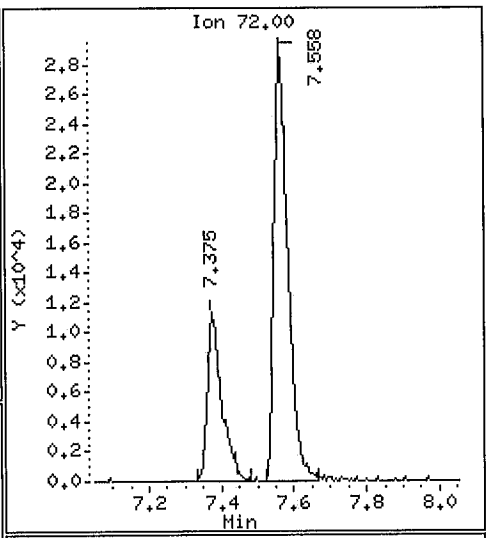
Column phase: Rtx-5

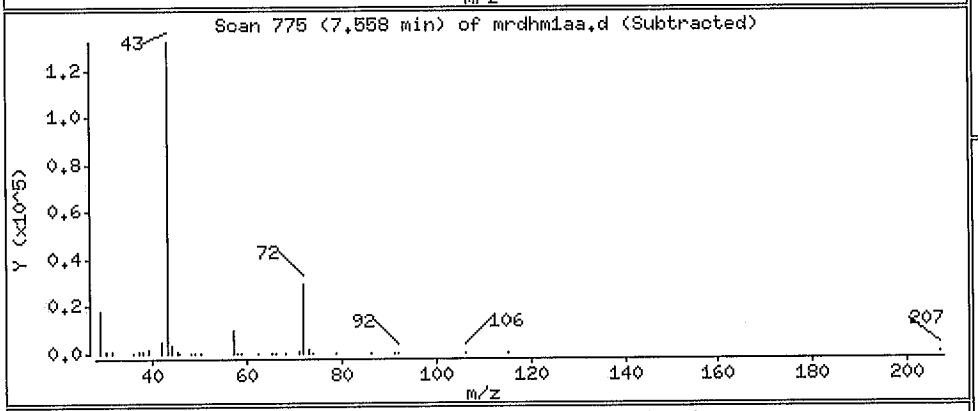
Column diameter: 0.32

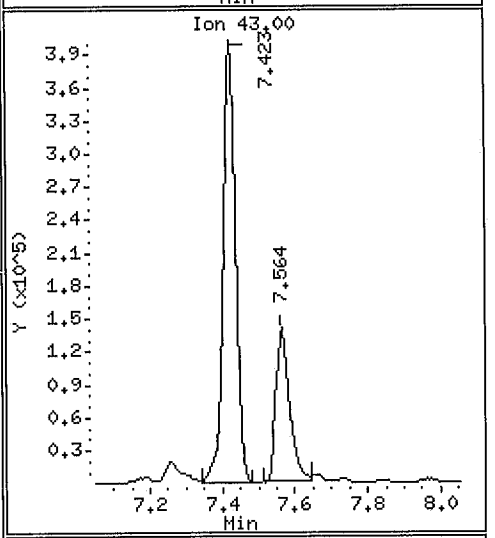
39 2-Butanone

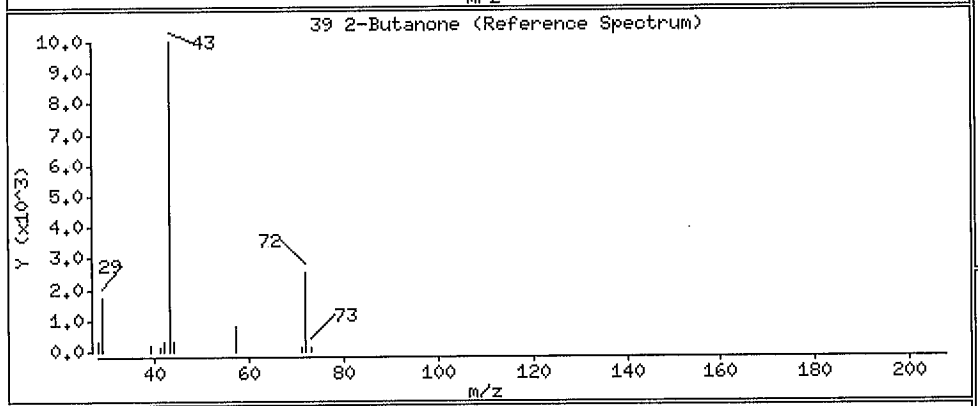
Concentration: 0.8736 ppb(v/v)

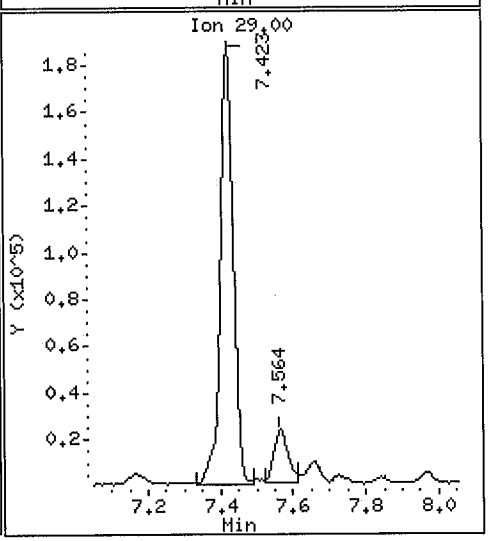


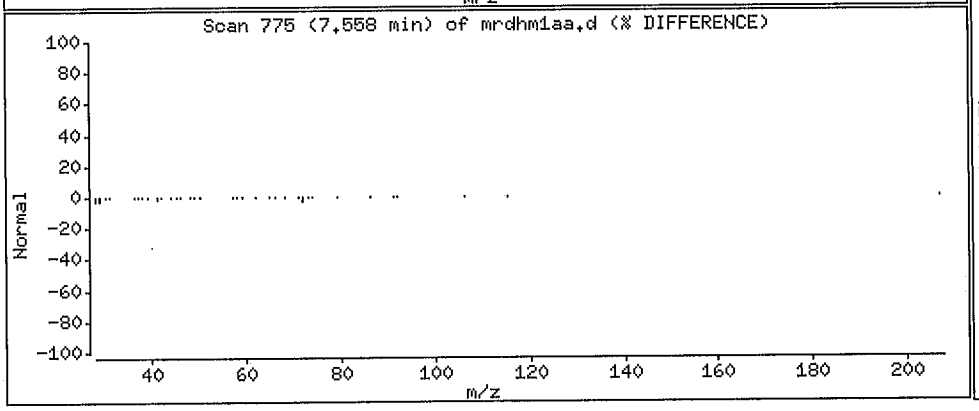












Data File: /var/chem/gcms/mg.i/C031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

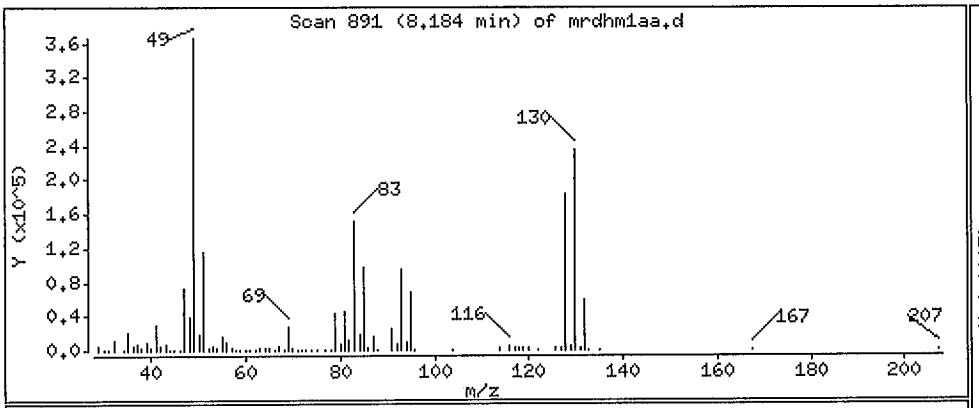
Operator: 7126

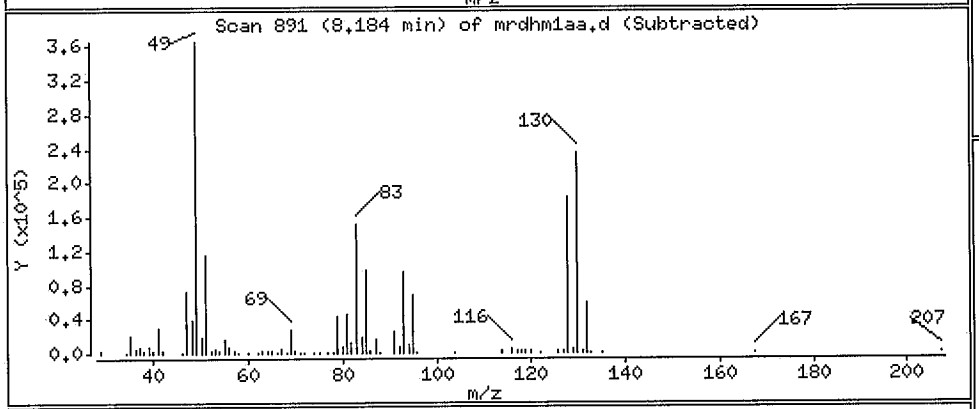
Column phase: Rtx-5

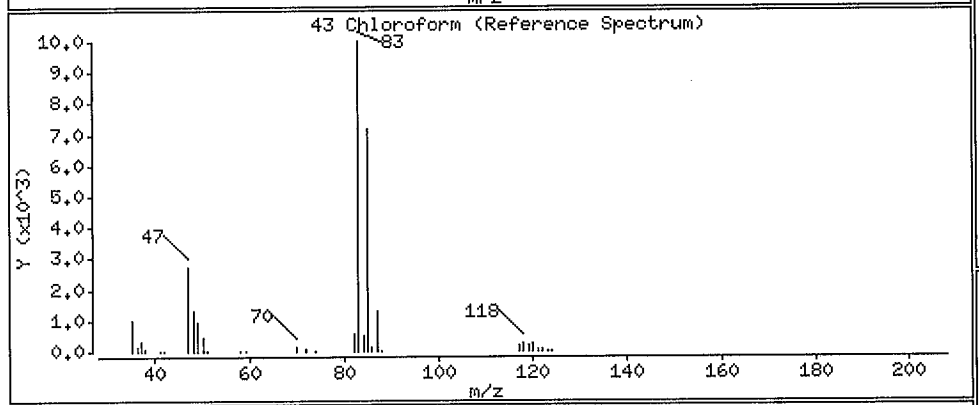
Column diameter: 0.32

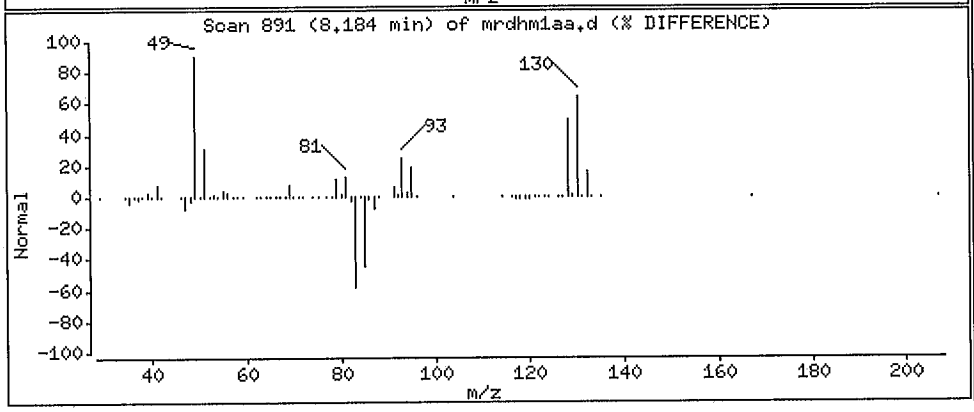
43 Chloroform

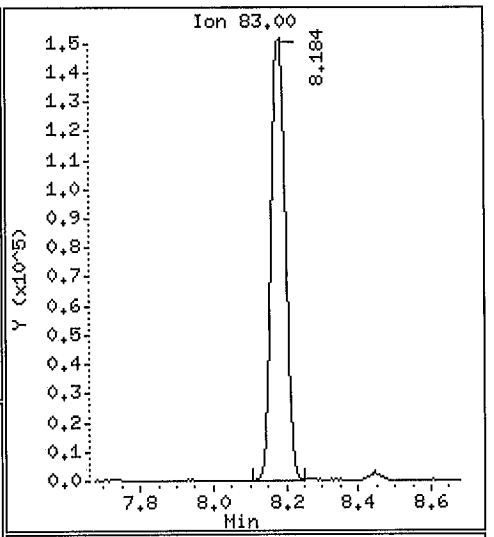
Concentration: 0.8398 ppb(v/v)

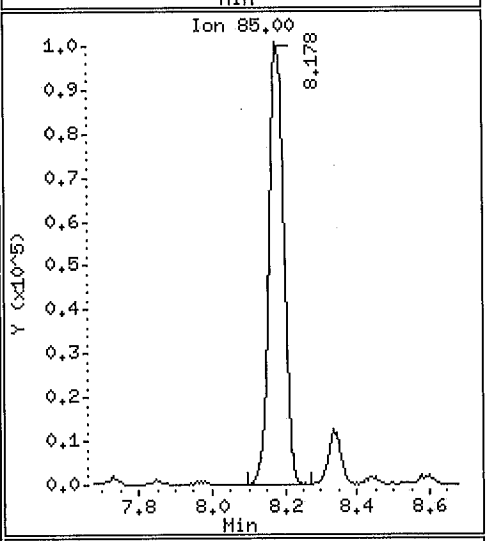


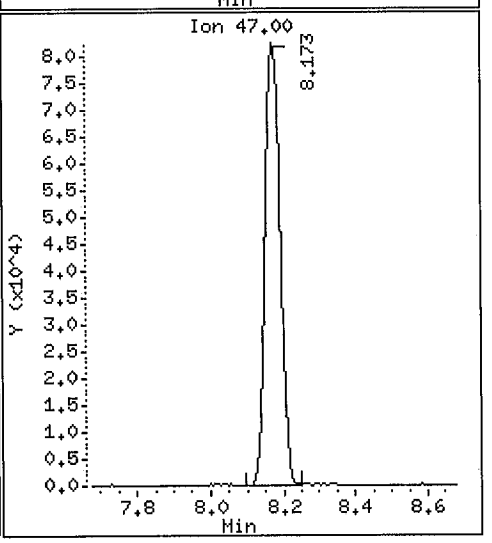












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

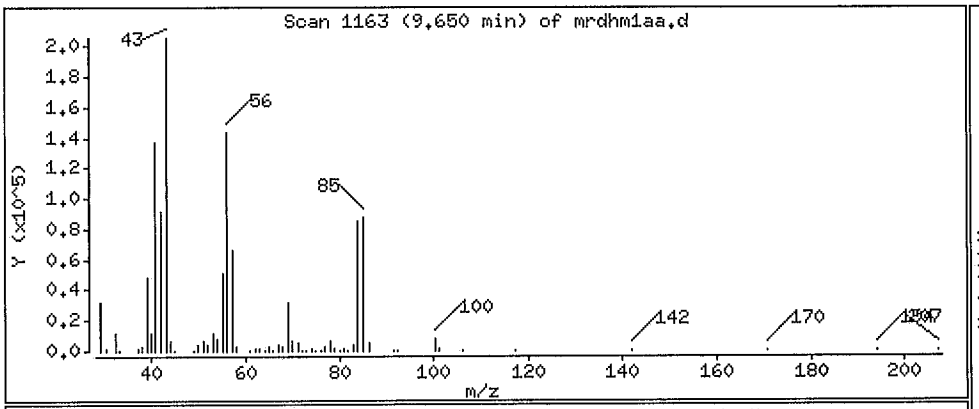
Operator: 7126

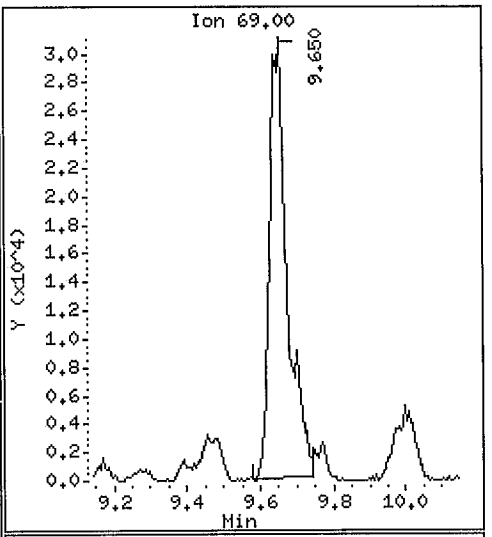
Column phase: Rtx-5

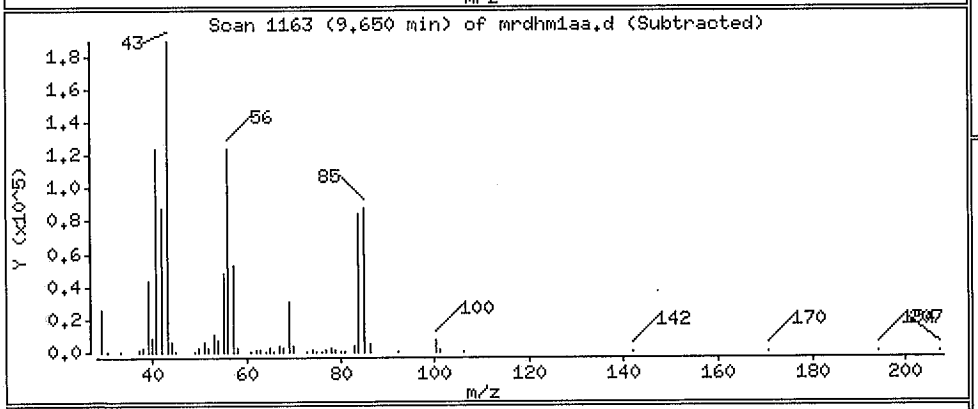
Column diameter: 0.32

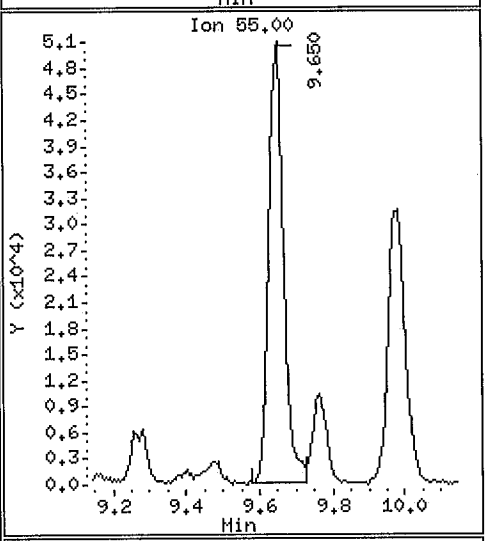
49 Cyclohexane

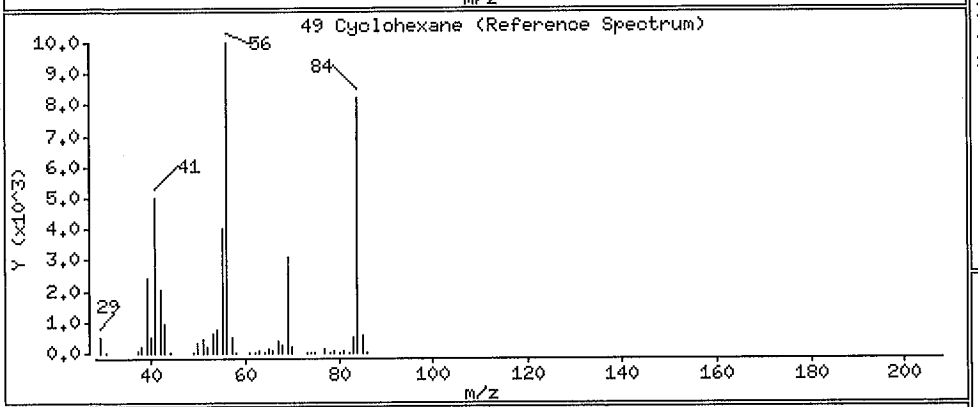
Concentration: 0.8402 ppb(v/v)

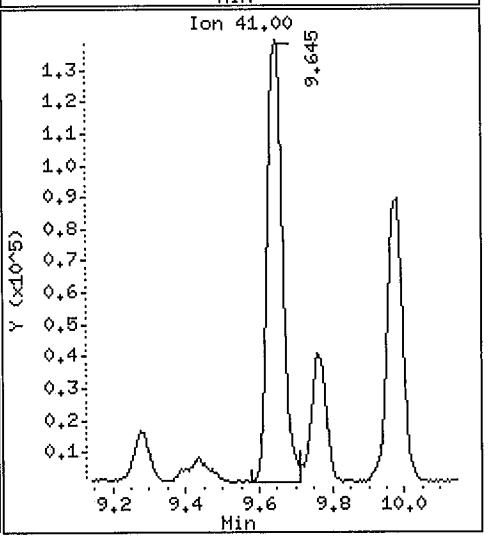


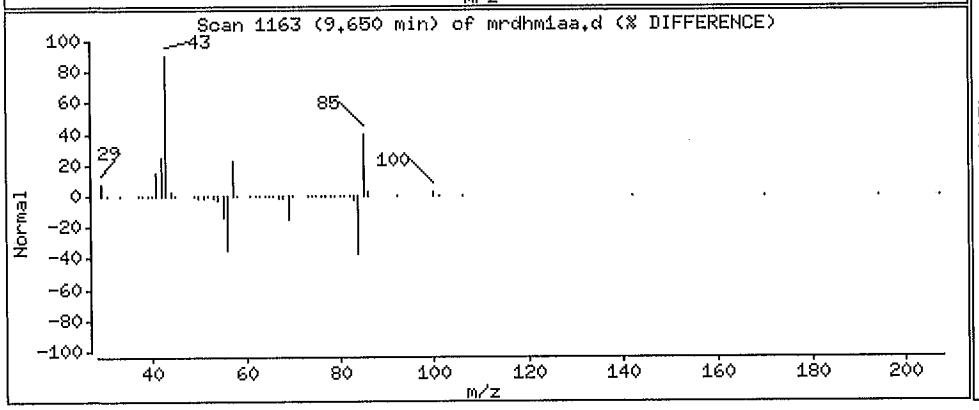












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

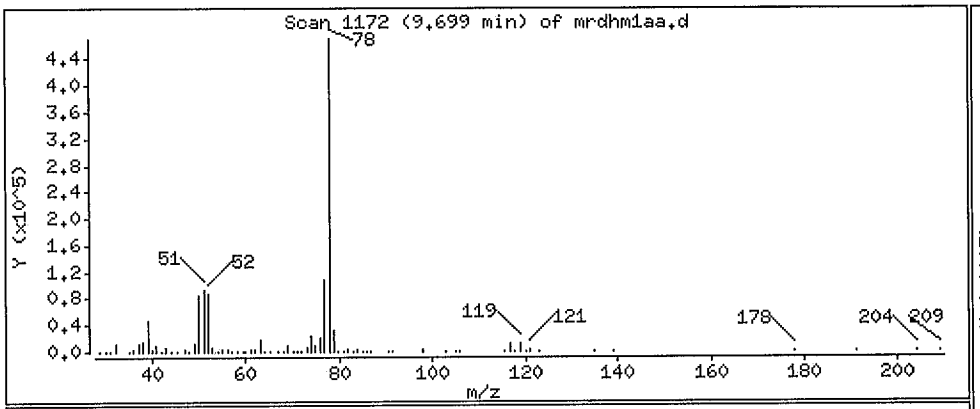
Operator: 7126

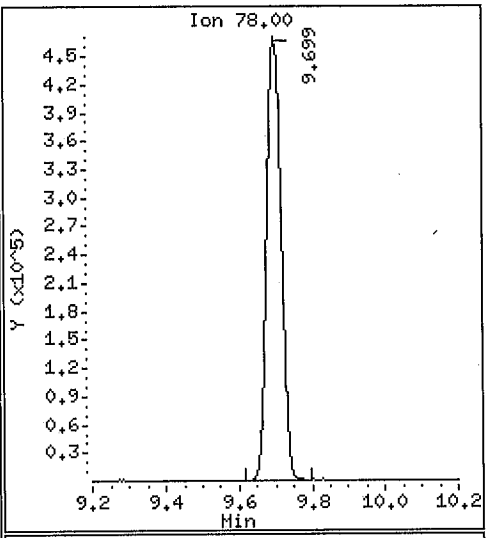
Column phase: Rtx-5

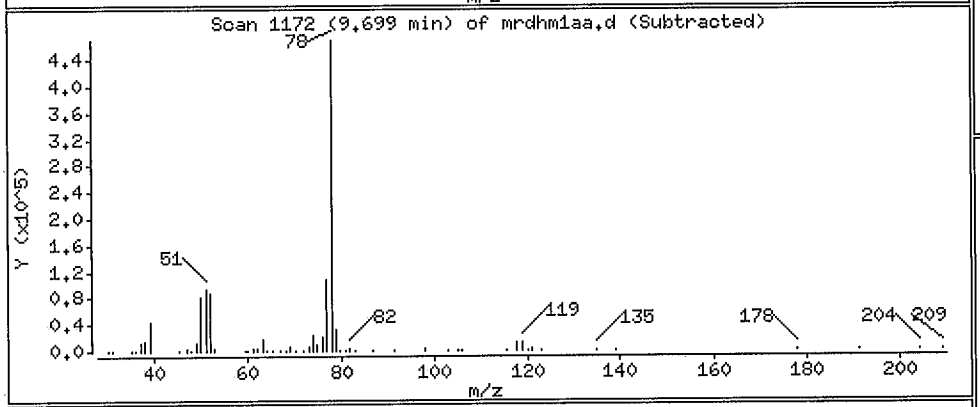
Column diameter: 0.32

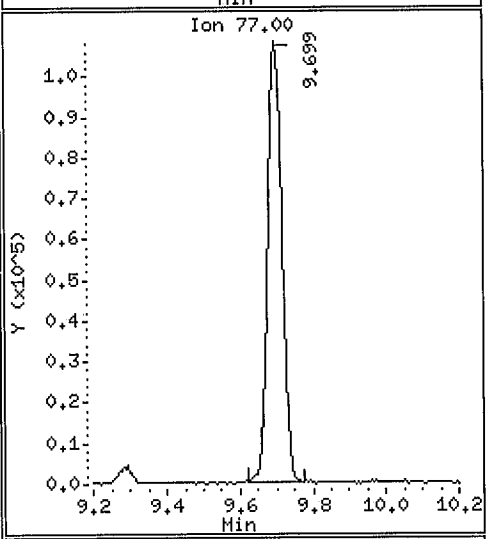
48 Benzene

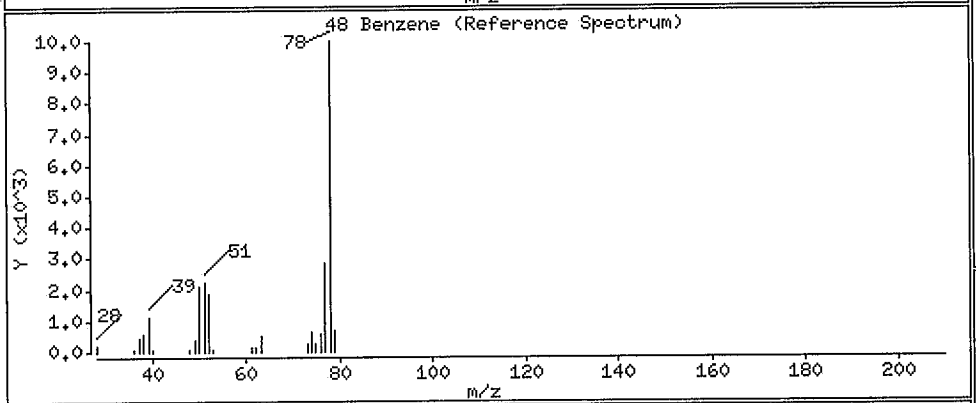
Concentration: 1.937 ppb(v/v)

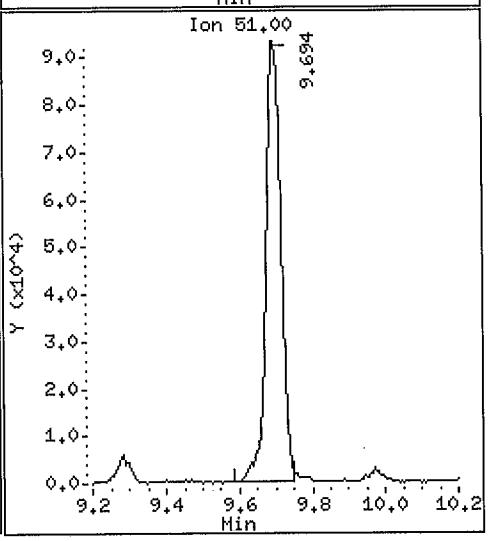


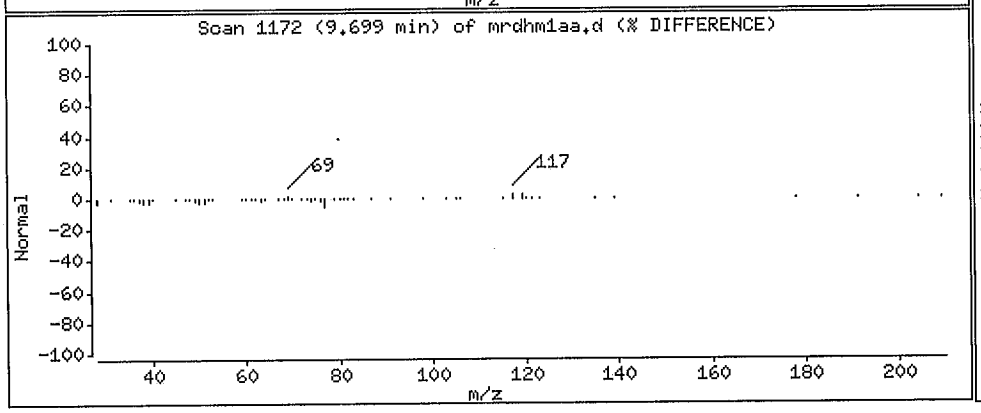












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

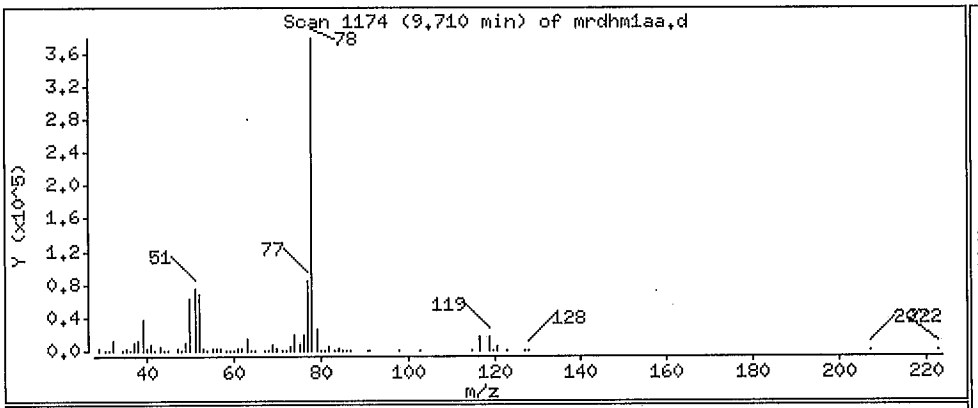
Operator: 7126

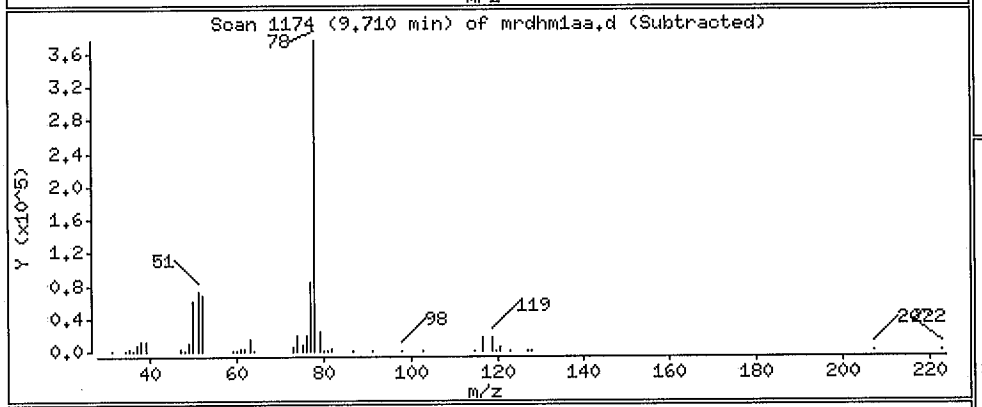
Column phase: Rtx-5

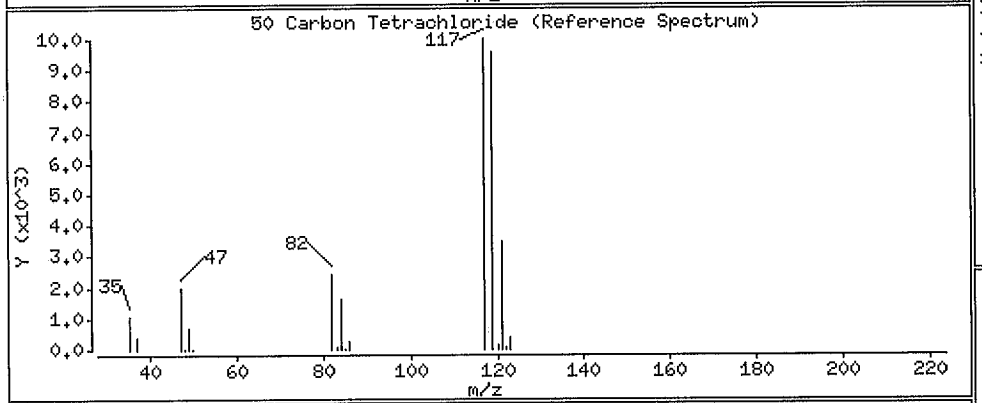
Column diameter: 0.32

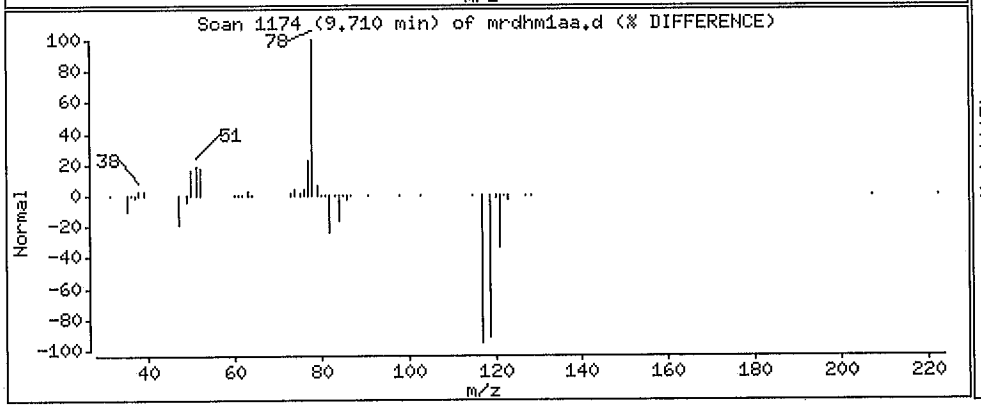
50 Carbon Tetrachloride

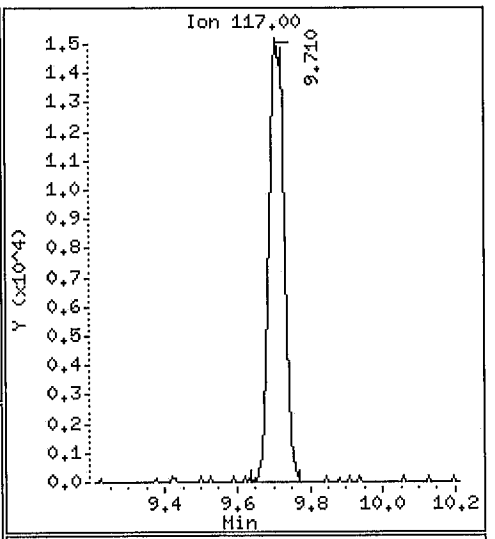
Concentration: 0.07691 ppb(v/v)

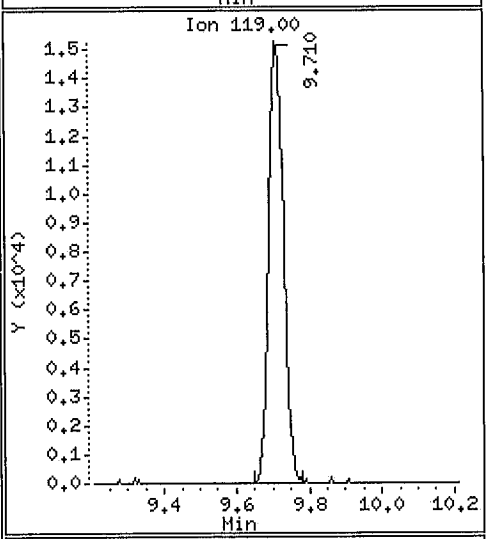


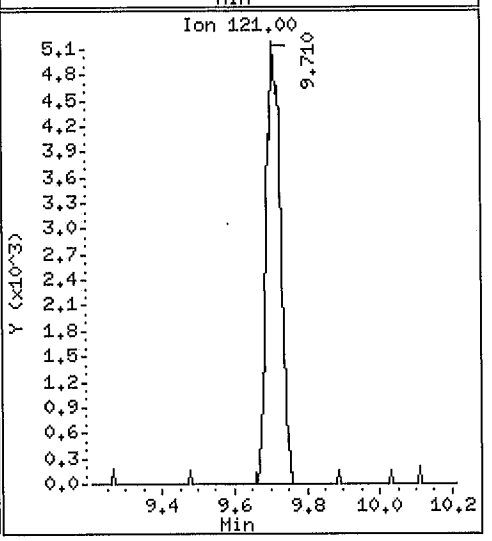












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

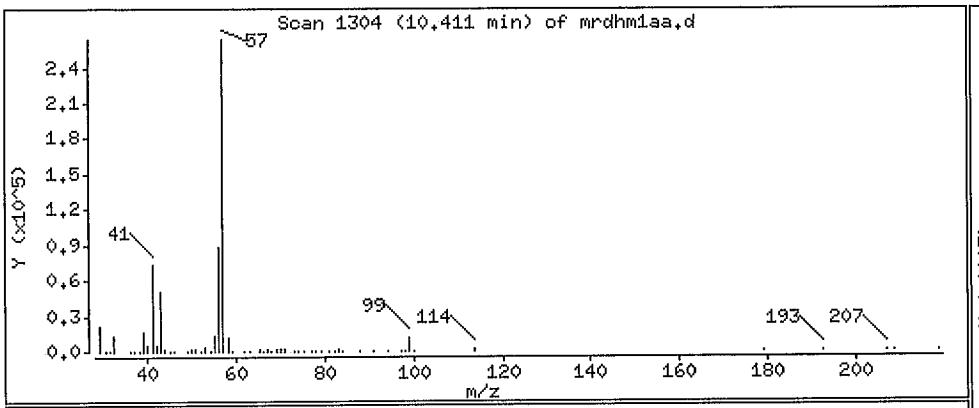
Operator: 7126

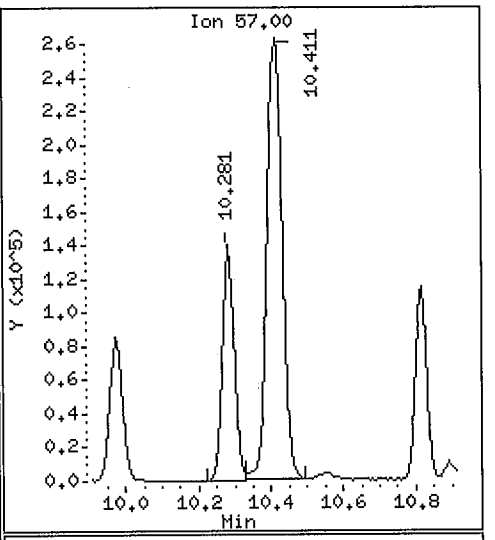
Column phase: Rtx-5

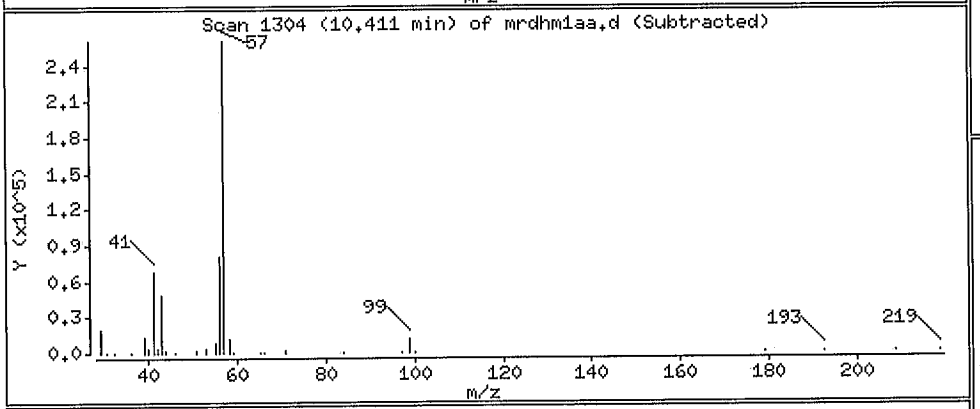
Column diameter: 0.32

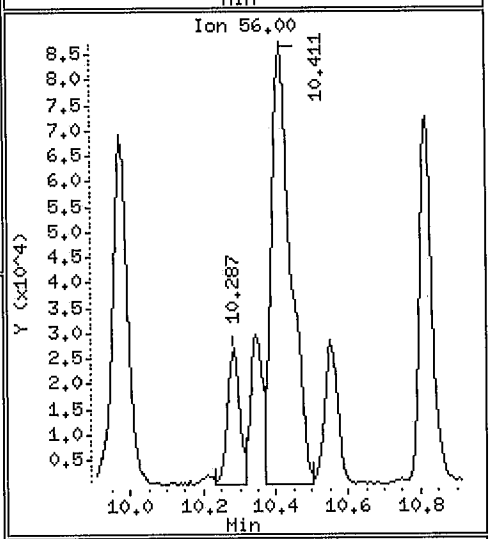
53 2,2,4-trimethylpentane

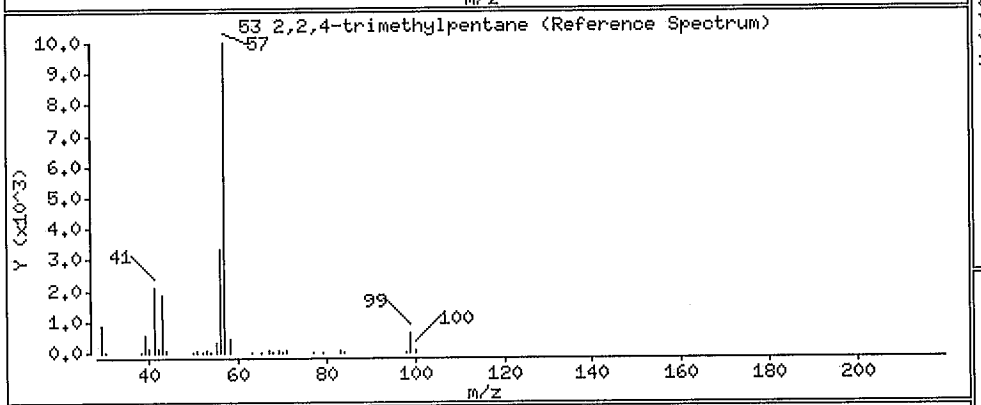
Concentration: 0.6996 ppb(v/v)

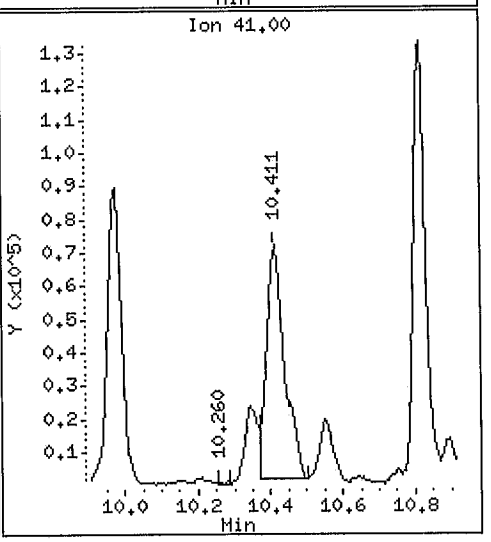


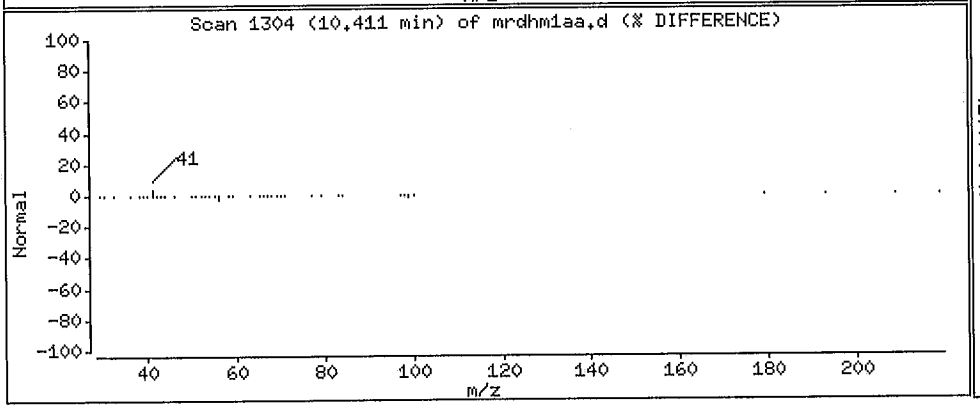












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

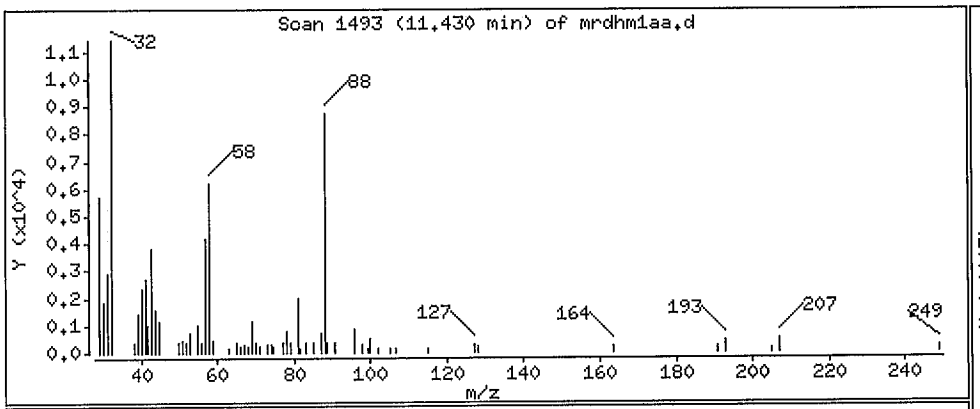
Operator: 7126

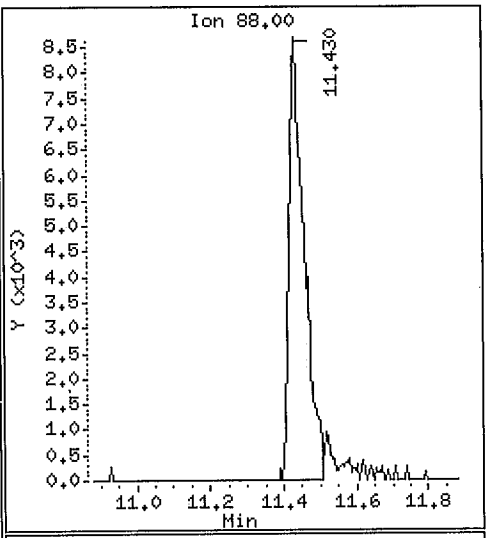
Column phase: Rtx-5

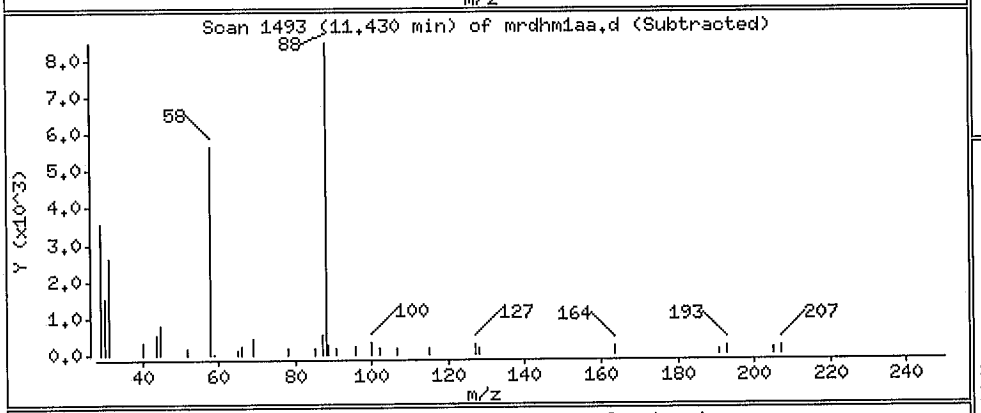
Column diameter: 0.32

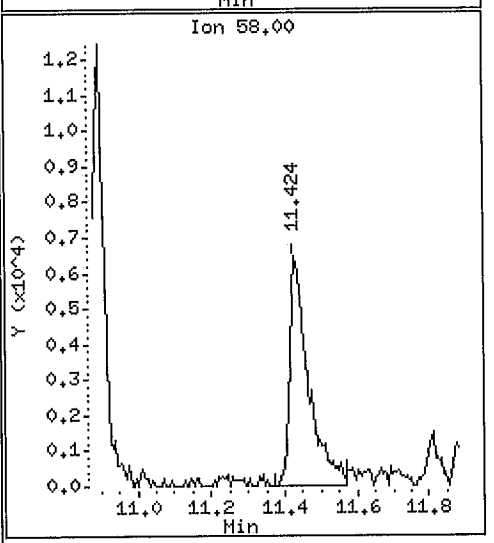
59 1,4-dioxane

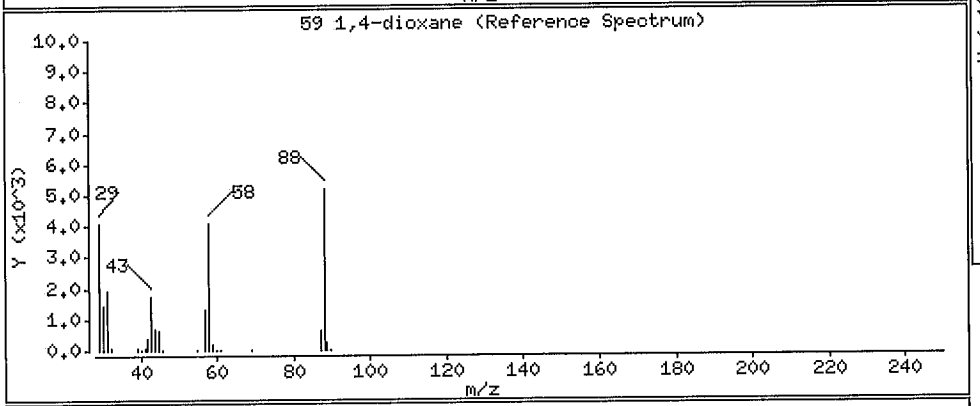
Concentration: 0.3337 ppb(v/v)

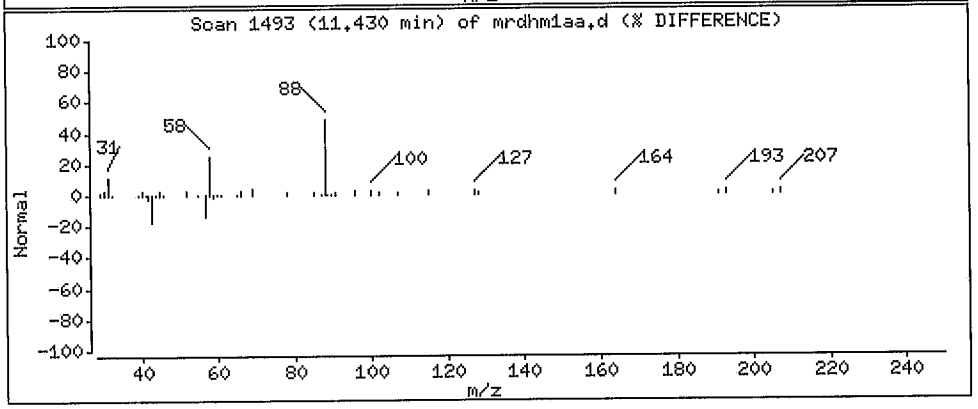












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

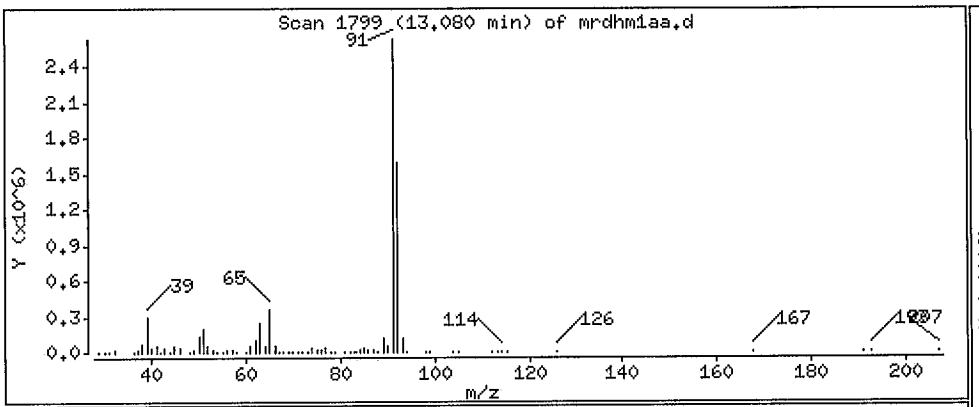
Operator: 7126

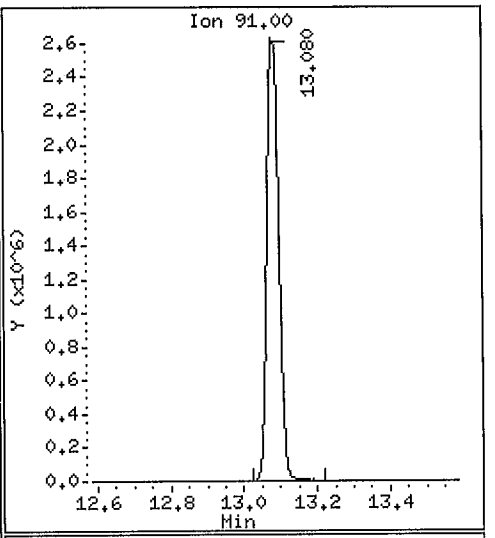
Column phase: Rtx-5

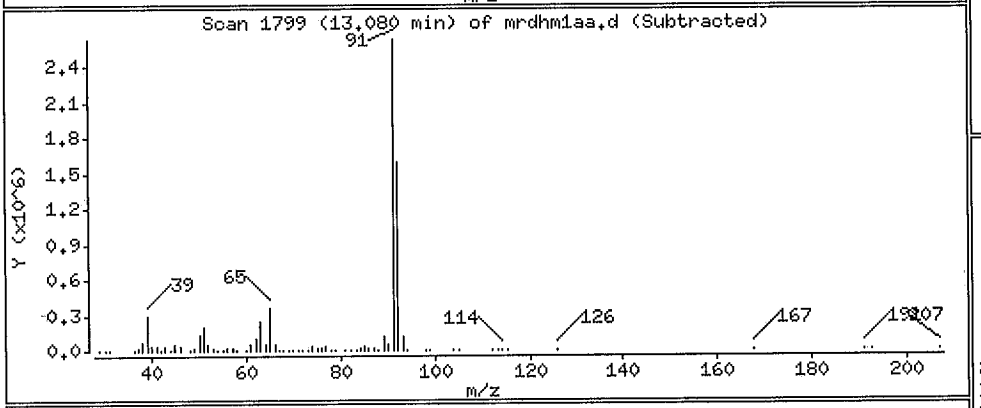
Column diameter: 0.32

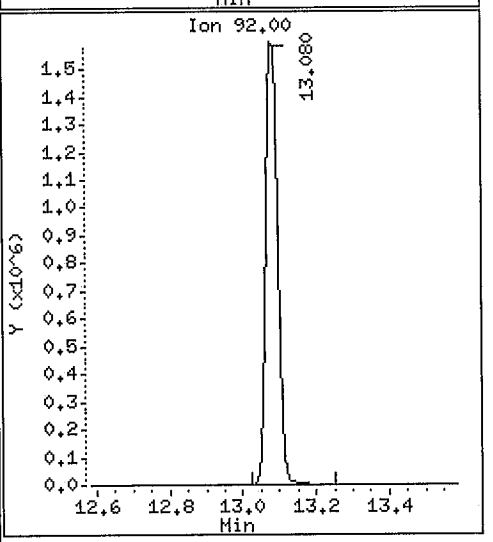
65 Toluene

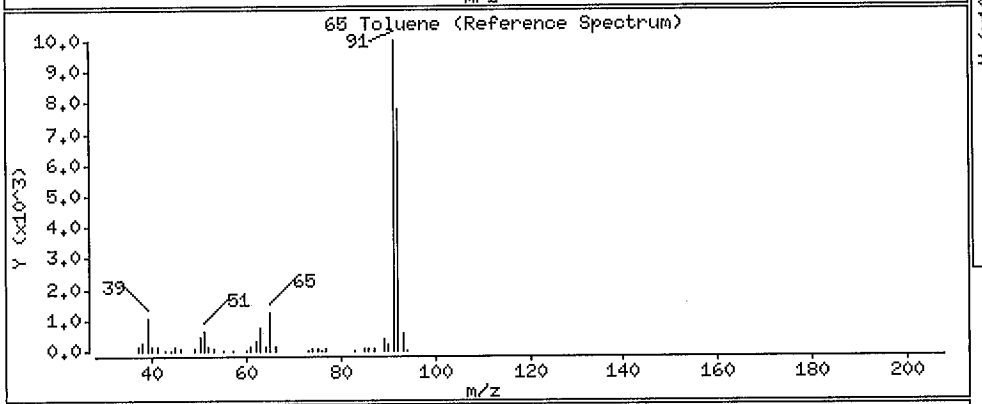
Concentration: 6.933 ppb(v/v)

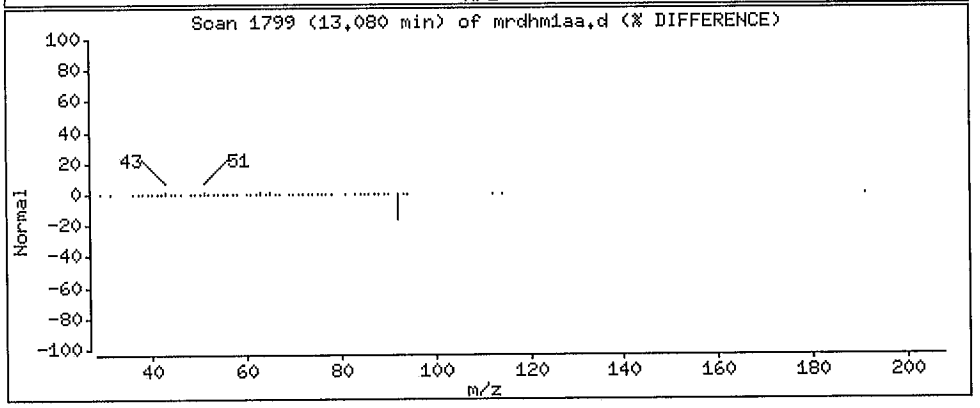












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

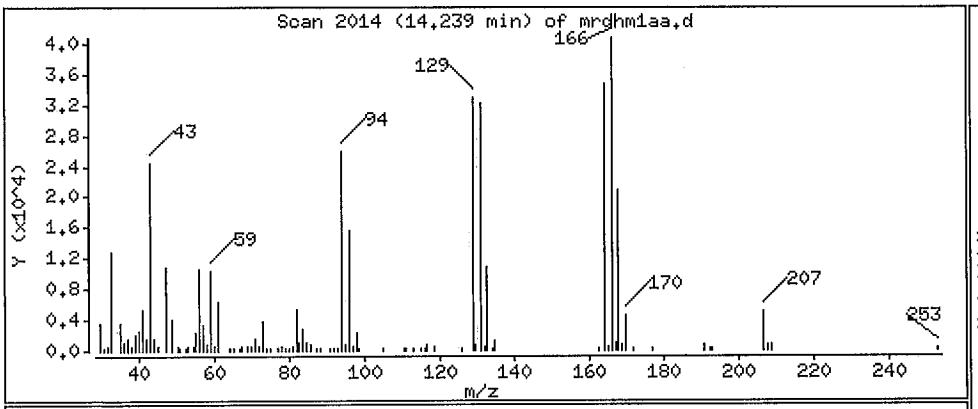
Operator: 7126

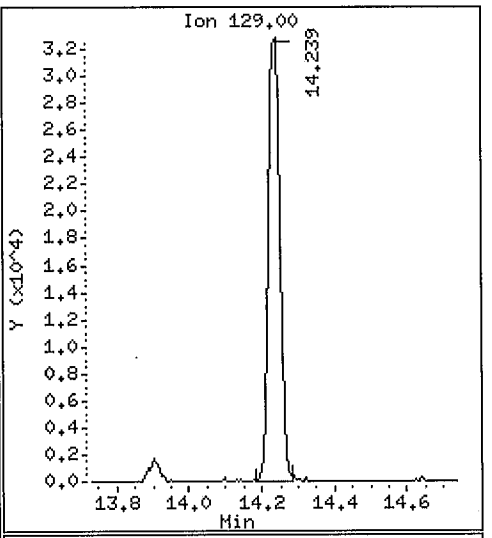
Column phase: Rtx-5

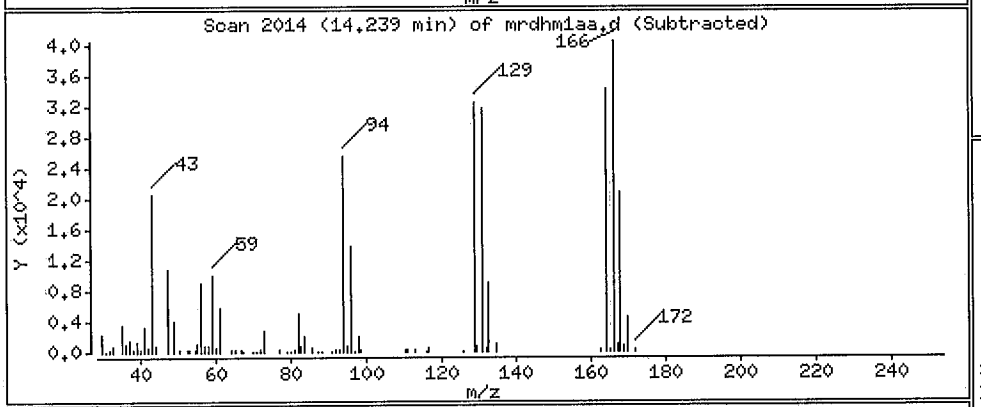
Column diameter: 0.32

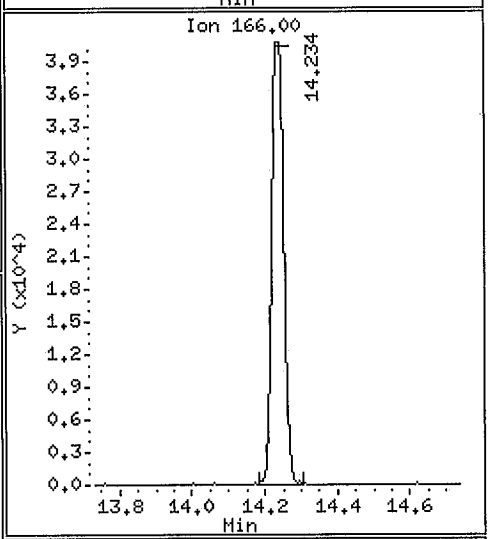
73 Tetrachloroethene

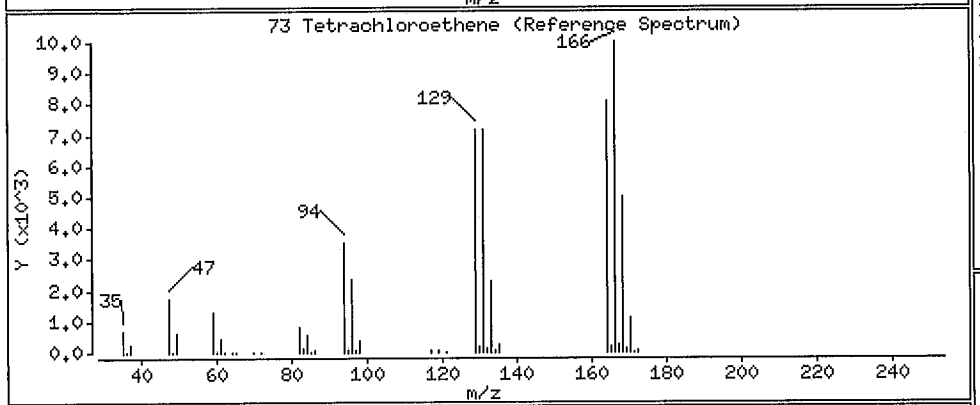
Concentration: 0.2175 ppb(v/v)

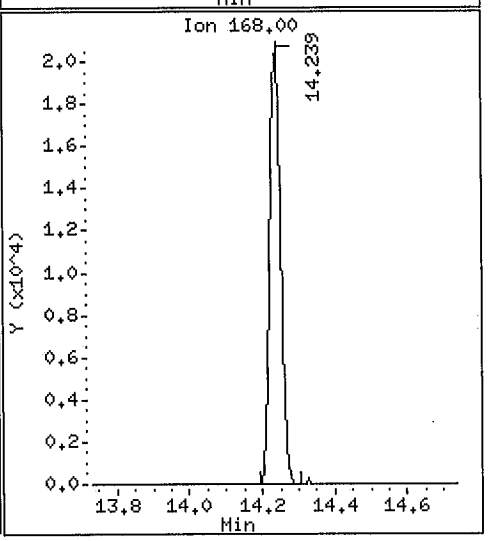


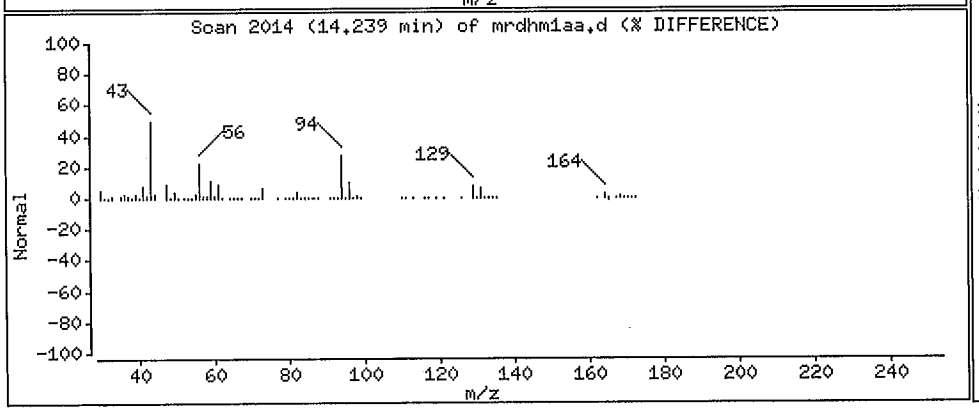












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

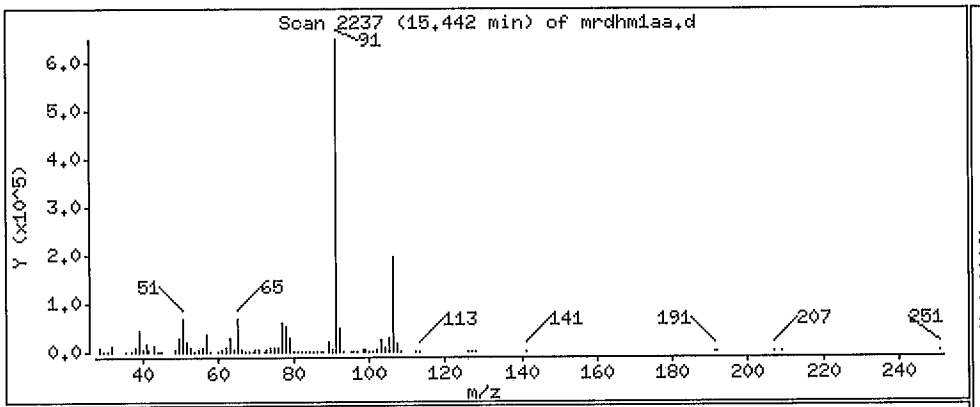
Operator: 7126

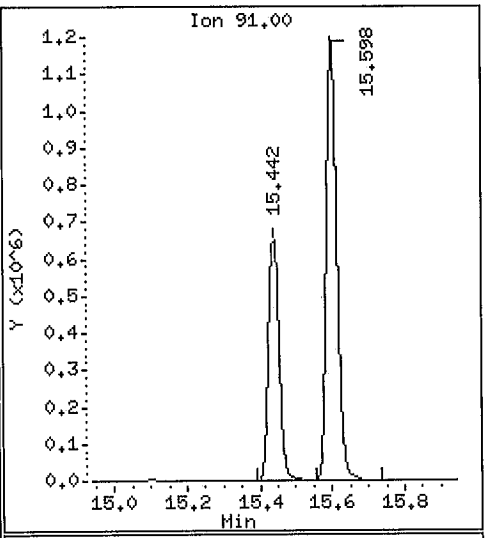
Column phase: Rtx-5

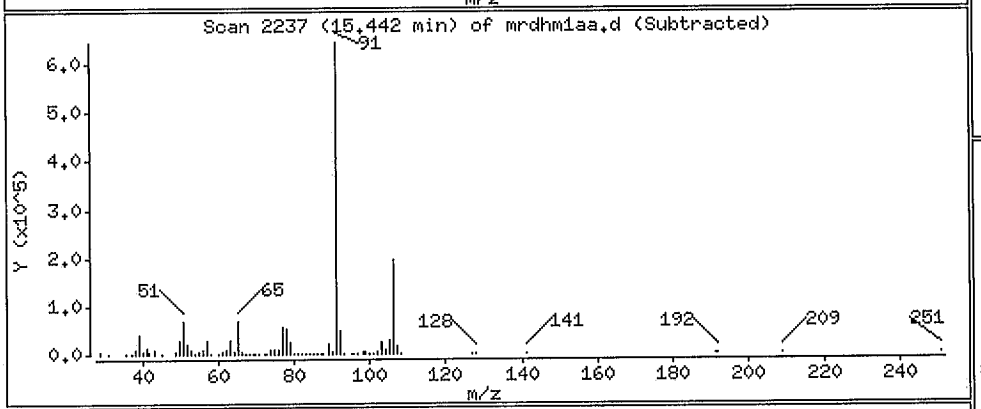
Column diameter: 0.32

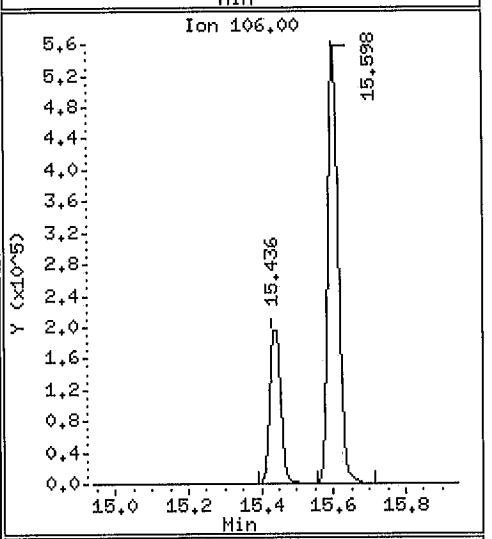
76 Ethylbenzene

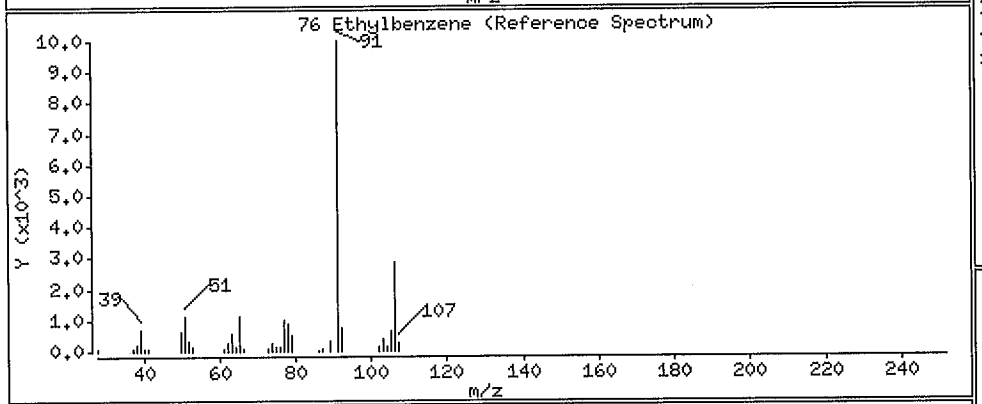
Concentration: 1.252 ppb(v/v)

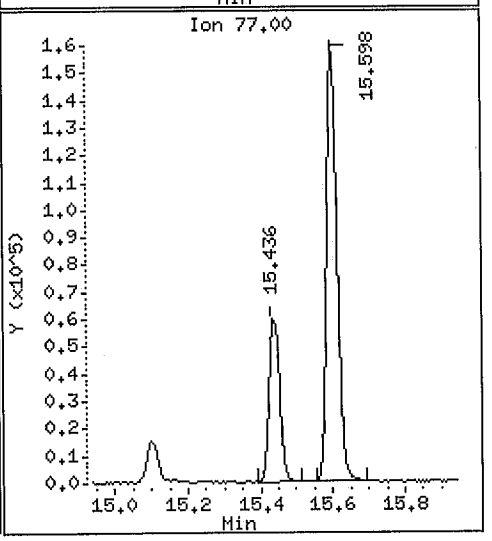


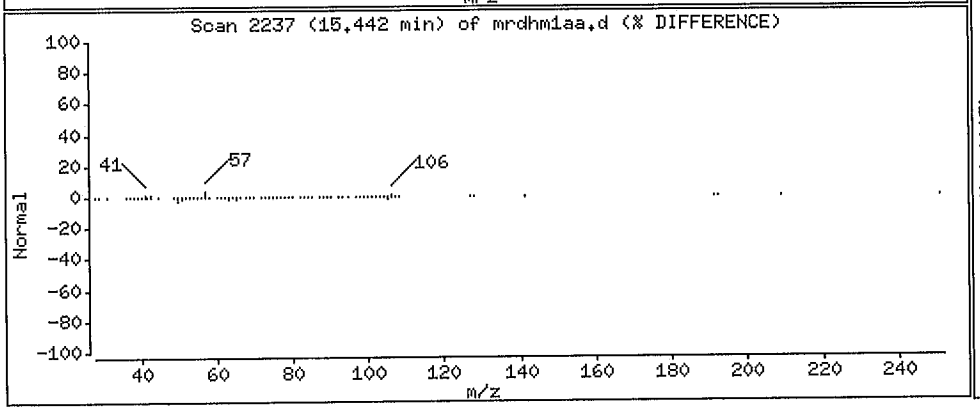












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

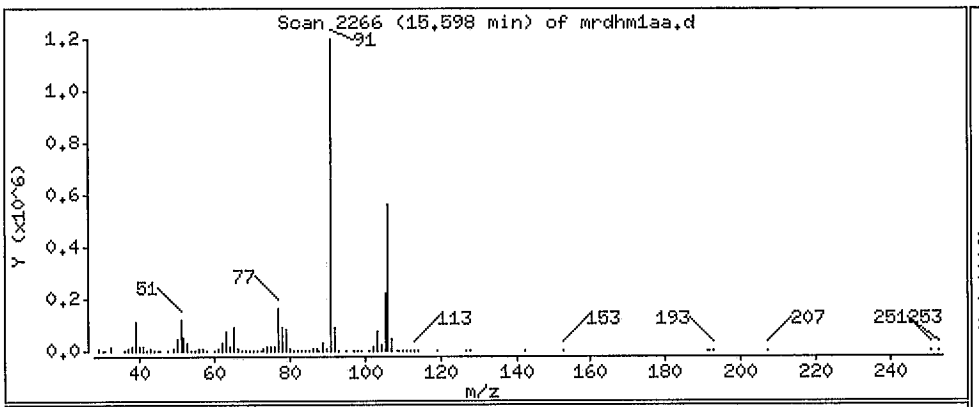
Operator: 7126

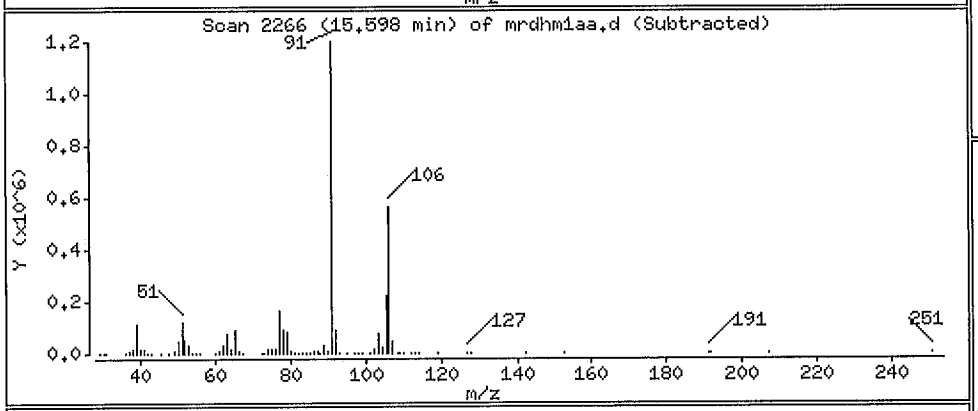
Column phase: Rtx-5

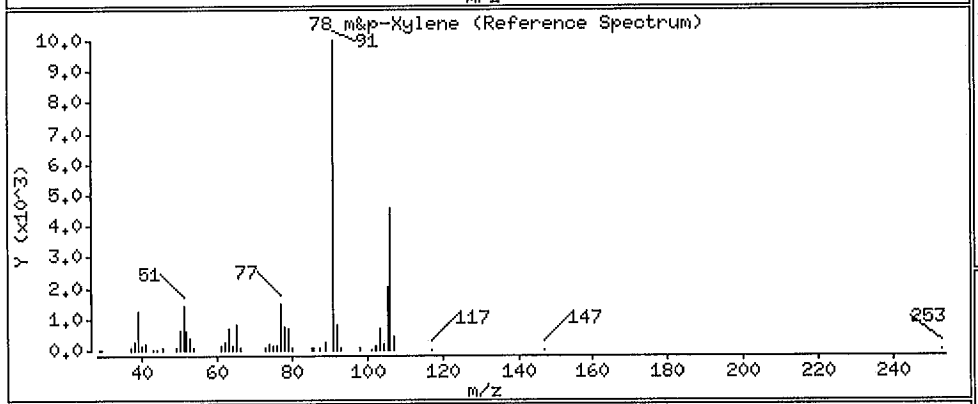
Column diameter: 0.32

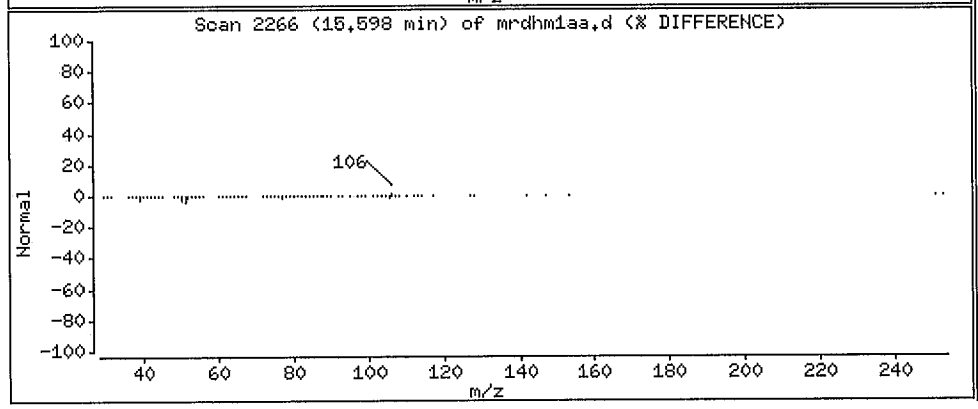
78 m&p-Xylene

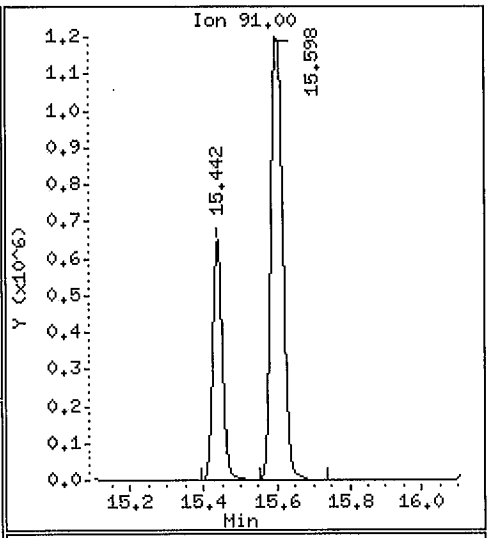
Concentration: 3.269 ppb(v/v)

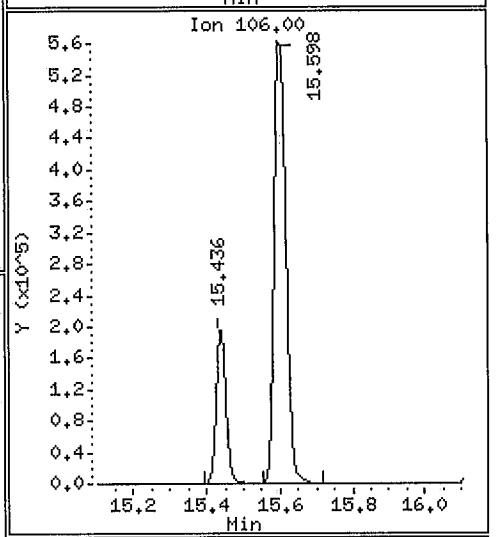


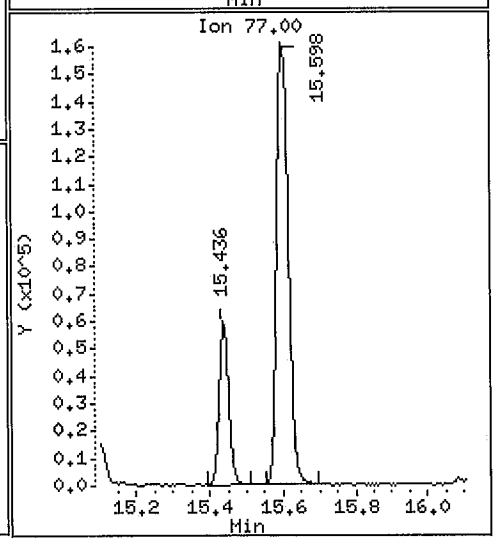












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

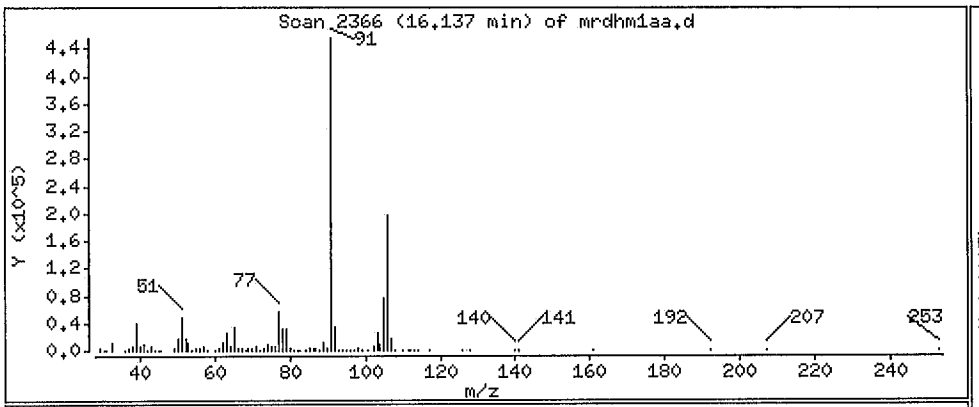
Operator: 7126

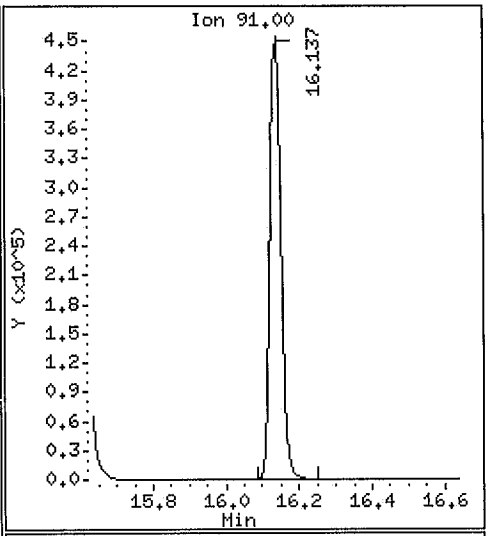
Column phase: Rtx-5

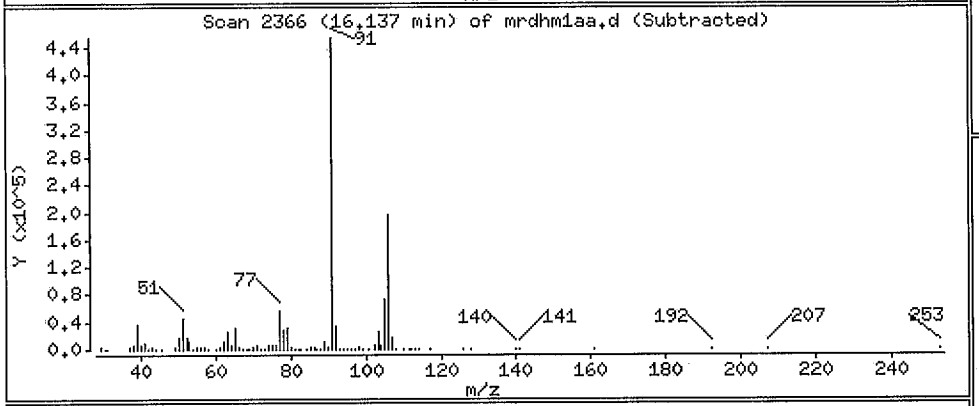
Column diameter: 0.32

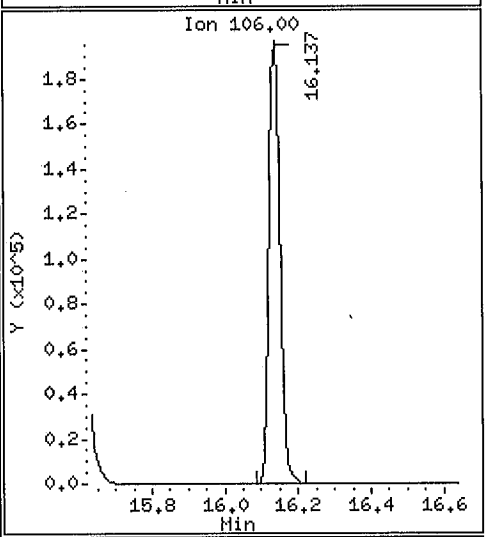
82 o-Xylene

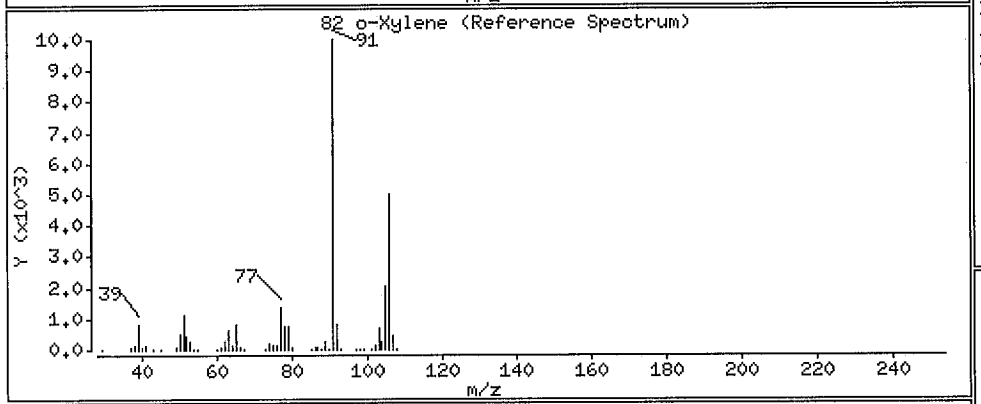
Concentration: 1.070 ppb(v/v)

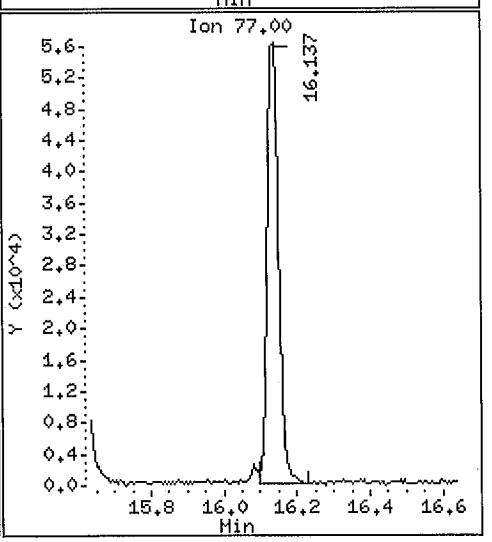


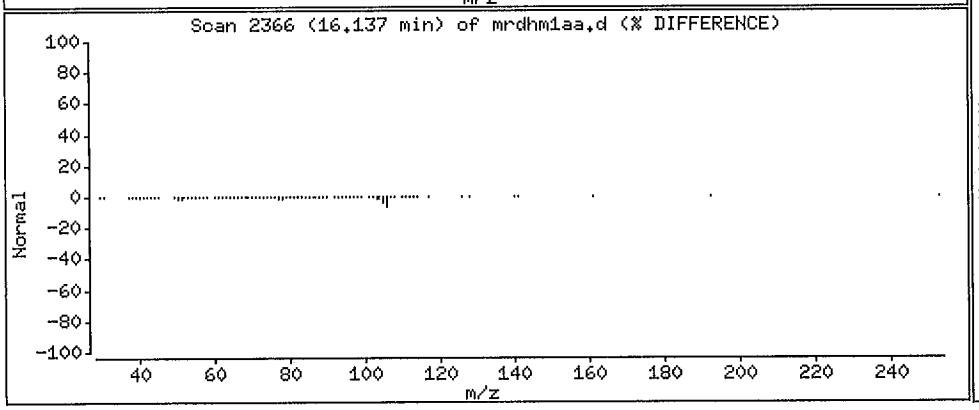












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

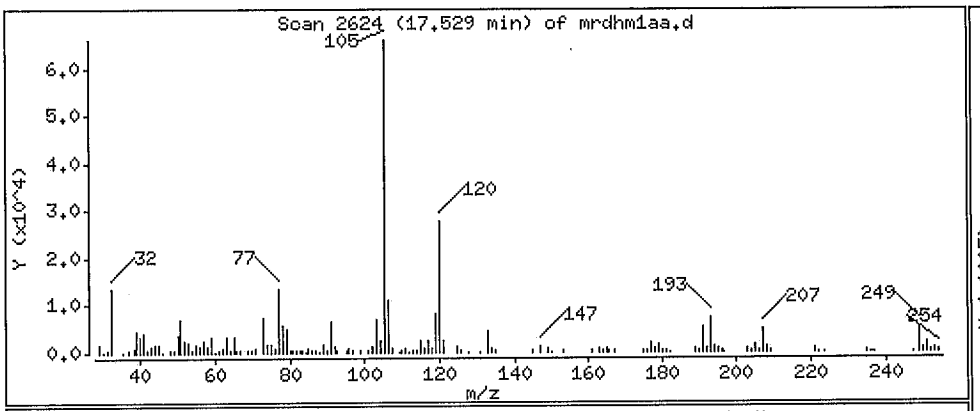
Operator: 7126

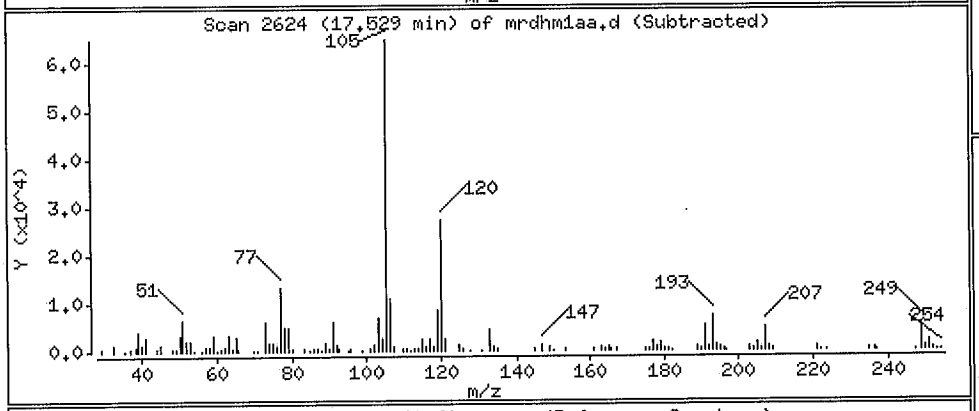
Column phase: Rtx-5

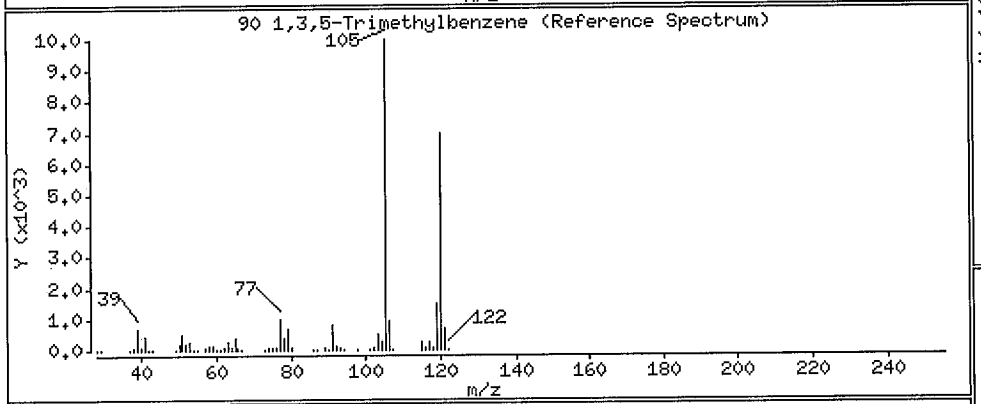
Column diameter: 0.32

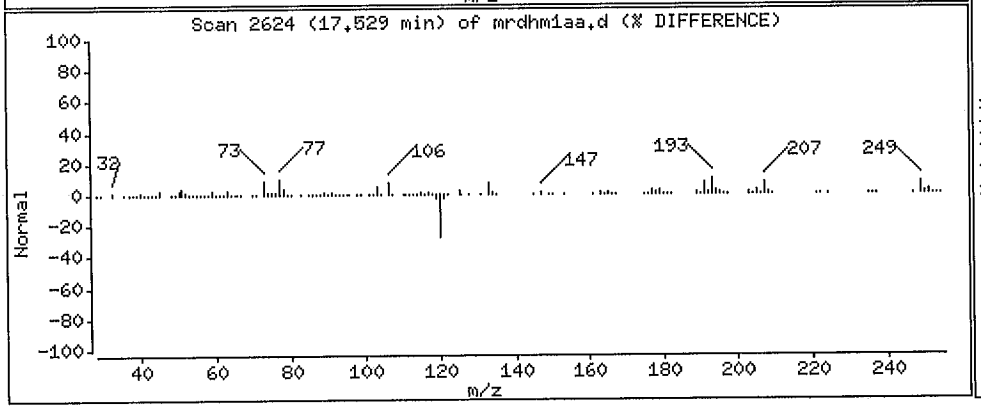
90 1,3,5-Trimethylbenzene

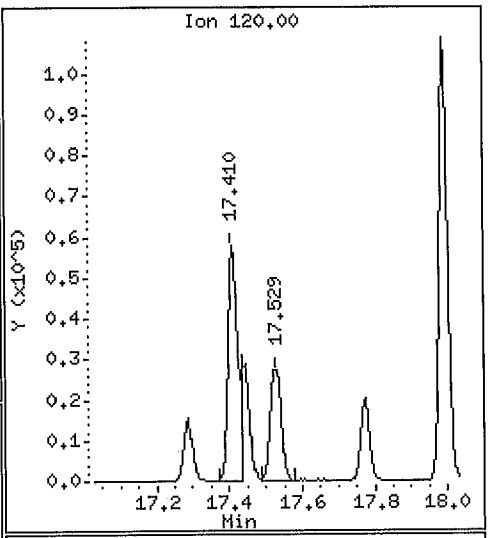
Concentration: 0.1041 ppb(v/v)

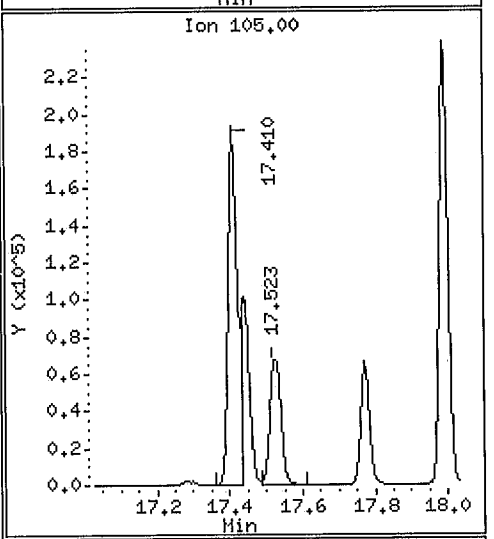


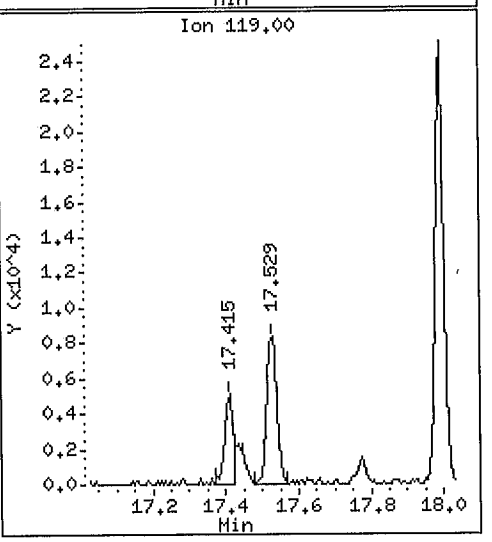












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

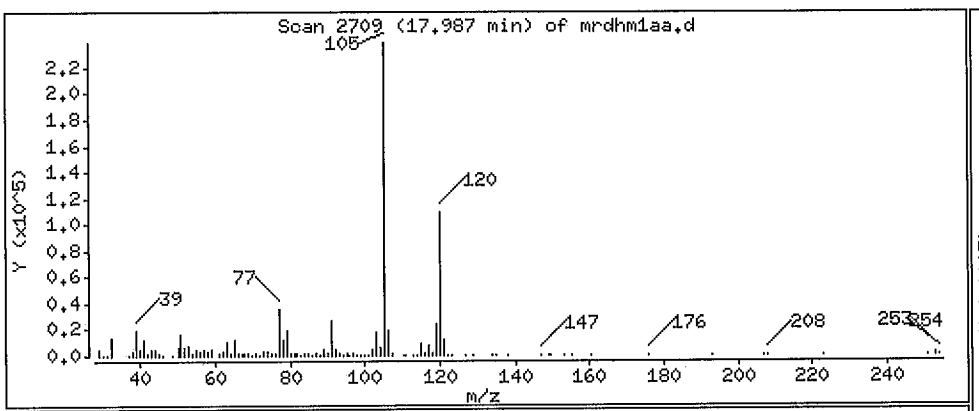
Operator: 7126

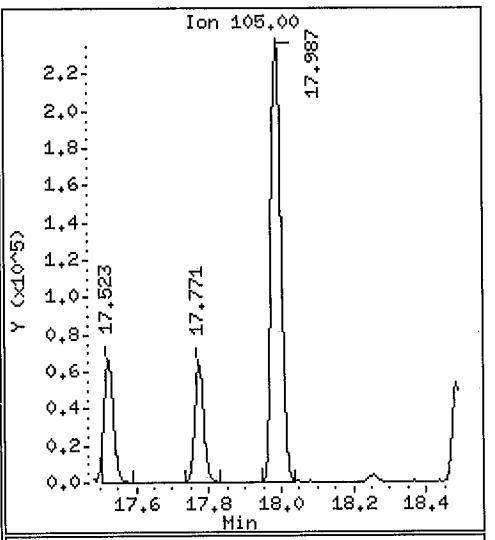
Column phase: Rtx-5

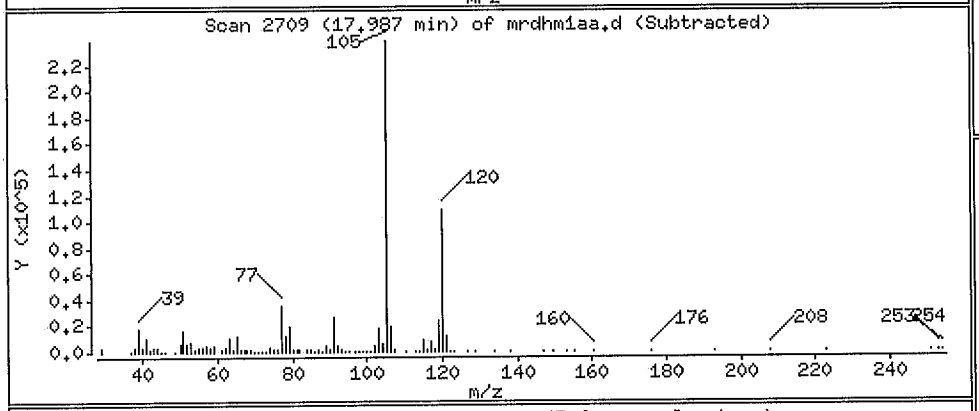
Column diameter: 0.32

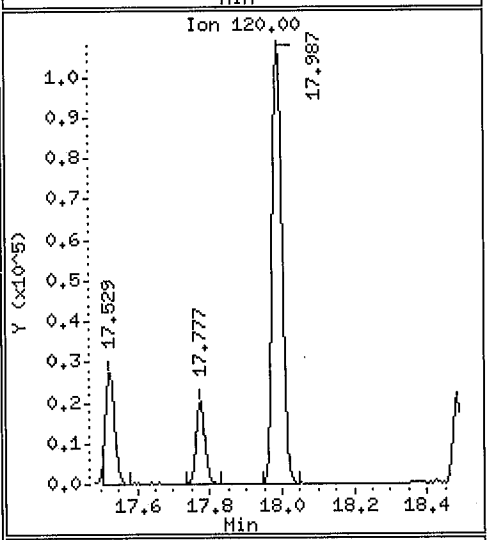
94 1,2,4-Trimethylbenzene

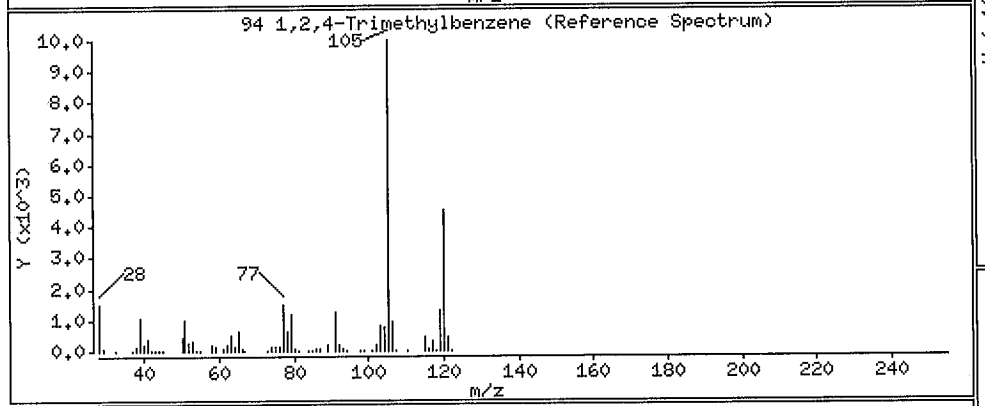
Concentration: 0.4573 ppb(v/v)

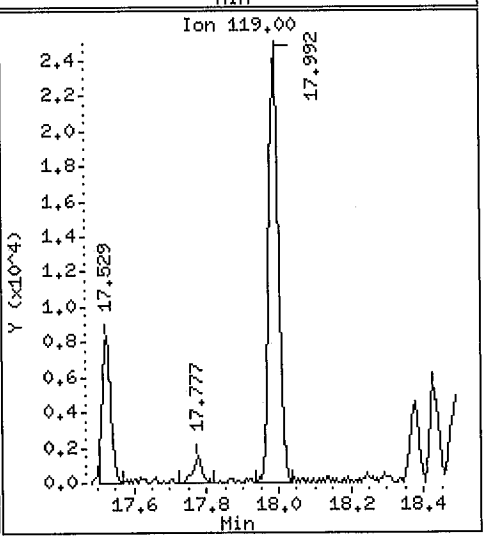


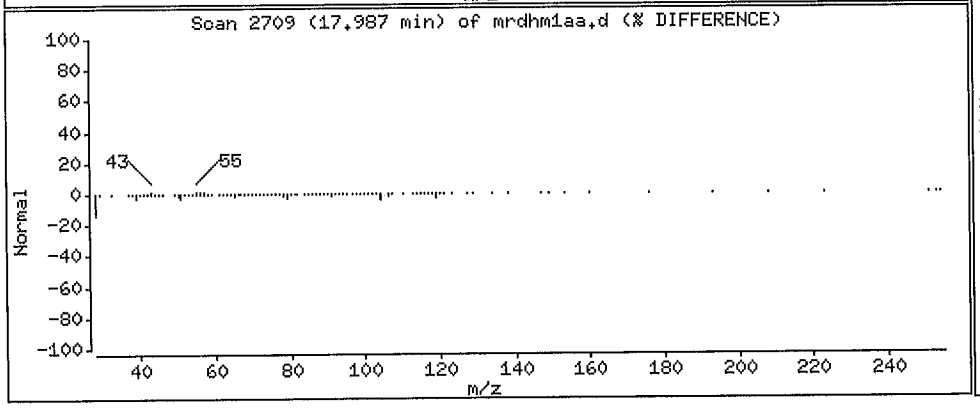












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhm1aa.d

Date : 13-MAR-2012 20:16

Client ID: HOUSE # 2 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

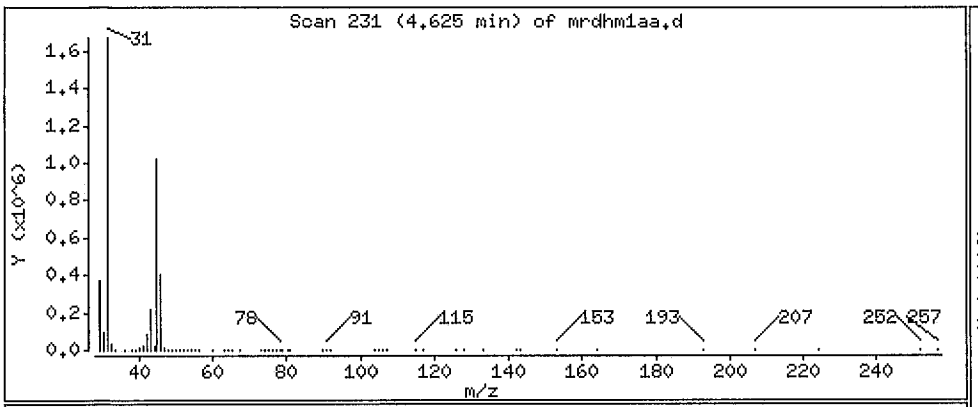
Operator: 7126

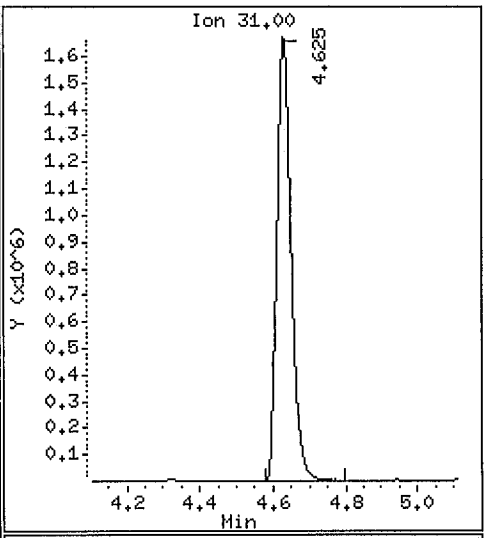
Column phase: Rtx-5

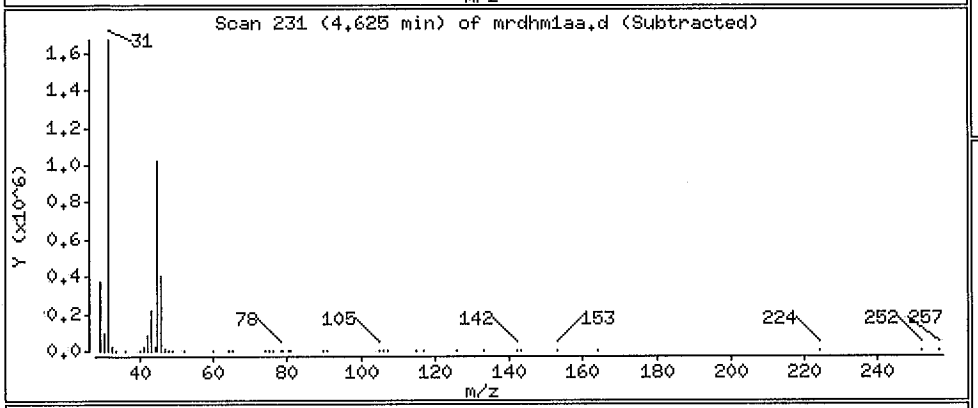
Column diameter: 0.32

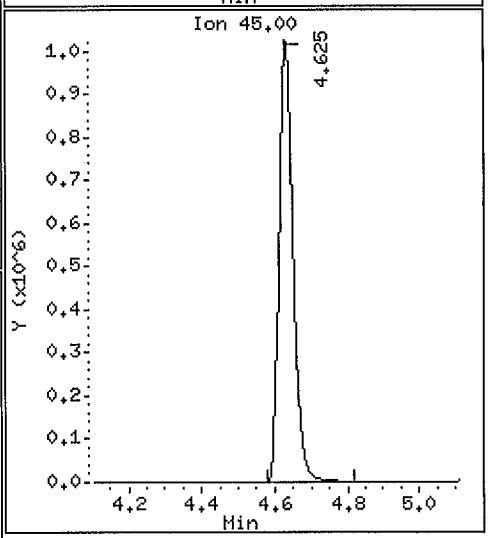
17 ^ ethanol

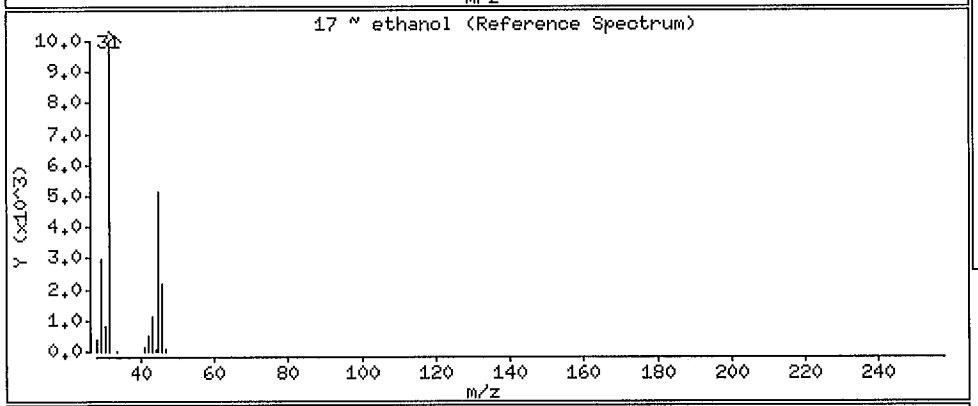
Concentration: 76.74 ppb(v/v)

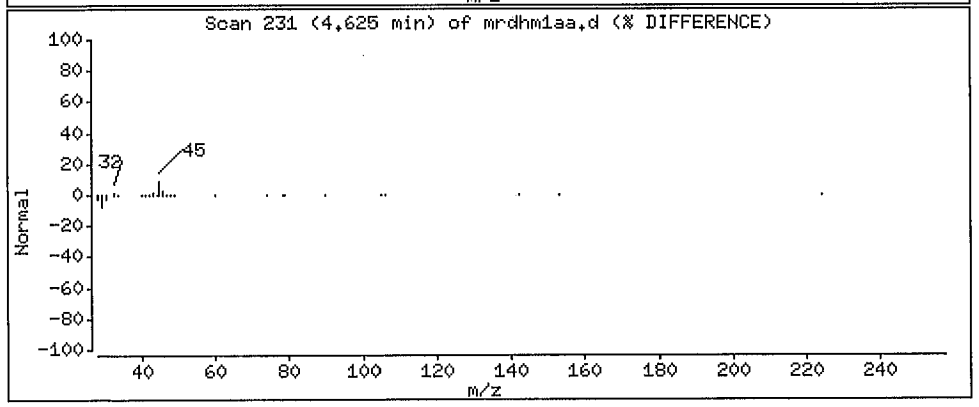












New York State D.E.C.

Client Sample ID: HOUSE # 2 INDOOR DUP

GC/MS Volatiles

Lot-Sample # H2C130401 - 006 **Work Order #** MRDHN1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/13/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**0.93**	**0.080**	**4.6**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.18**	**0.080**	**0.87**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**0.92**	**0.32**	**2.7**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	**0.86**	**0.20**	**4.0**	**0.93**
Benzene	**2.2**	**0.080**	**6.9**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.076**	**0.040**	**0.48**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.95**	**0.080**	**4.6**	**0.39**
Cyclohexane	**0.97**	**0.20**	**3.3**	**0.69**
Chloromethane	**0.91**	**0.20**	**1.9**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.66**	**0.080**	**3.3**	**0.40**
Ethanol	**67**	**0.80**	**130**	**1.5**
Ethylbenzene	**1.4**	**0.080**	**6.2**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**4.6**	**0.20**	**16**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 2 INDOOR DUP

GC/MS Volatiles

Lot-Sample # H2C130401 - 006 **Work Order #** MRDHN1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	**0.24**	**0.080**	**1.6**	**0.54**
Toluene	**7.5**	**0.080**	**28**	**0.30**
m-Xylene & p-Xylene	**4.8**	**0.080**	**21**	**0.35**
o-Xylene	**1.6**	**0.080**	**7.1**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.20**	**0.080**	**1.1**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	114	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d
Report Date: 14-Mar-2012 13:25

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d
Lab Smp Id: MRDHN1AA Client Smp ID: HOUSE # 2 INDOOR MS
Inj Date : 13-MAR-2012 21:18
Operator : 7126 Inst ID: mg.i
Smp Info : ,,0,,,
Misc Info : G031312,TO15,nysdec.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 14-Mar-2012 13:23 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

131612

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.168	8.168	(1.000)	444971	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.287	10.281	(1.000)	2264917	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.102	15.102	(1.000)	2206319	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.774	16.779	(1.111)	1825605	4.56954	4.570
7 Dichlorodifluoromethane	85	3.730	3.724	(0.457)	281201	0.65867	0.6587
8 Chloromethane	52	3.881	3.875	(0.475)	37464	0.90747	0.9075
20 Trichlorofluoromethane	101	4.943	4.943	(0.605)	84089	0.19624	0.1962
28 tert-butanol	59	5.827	5.736	(0.713)	5165	0.02949	0.02949(M) <RL
40 Hexane	56	7.424	7.418	(0.909)	593367	4.60567	4.606
39 2-Butanone	72	7.564	7.553	(0.926)	55414	0.91916	0.9192
43 Chloroform	83	8.178	8.178	(1.001)	306253	0.94854	0.9485
49 Cyclohexane	69	9.651	9.645	(0.938)	78501	0.97251	0.9725
48 Benzene	78	9.699	9.699	(0.943)	923323	2.16869	2.169
50 Carbon Tetrachloride	117	9.715	9.710	(0.944)	27977	0.07628	0.07628
53 2,2,4-trimethylpentane	57	10.411	10.411	(1.012)	609717	0.86112	0.8611
65 Toluene	91	13.080	13.085	(0.866)	4049850	7.53471	7.535

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d
Report Date: 14-Mar-2012 13:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
73 Tetrachloroethene	129	14.240	14.234	(0.943)	50127	0.24279	0.2428
76 Ethylbenzene	91	15.442	15.442	(1.022)	973977	1.43628	1.436
78 m&p-Xylene	91	15.598	15.604	(1.033)	2521010	4.77794	4.778
82 o-Xylene	91	16.138	16.138	(1.069)	899480	1.63494	1.635
90 1,3,5-Trimethylbenzene	120	17.523	17.529	(1.160)	61421	0.17673	0.1767
94 1,2,4-Trimethylbenzene	105	17.987	17.987	(1.191)	575537	0.93481	0.9348
17 ~ ethanol	31	4.625	4.609	(0.566)	2779019	67.2860	67.28

QC Flag Legend

M - Compound response manually integrated.

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d
Report Date: 14-Mar-2012 13:25

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: mrdhn1aa.d
Lab Smp Id: MRDHN1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: HOUSE # 2 INDOOR MS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	444971	-20.70
2 1,4-Difluorobenze	2909107	1730919	4087295	2264917	-22.14
3 Chlorobenzene-d5	2830968	1684426	3977510	2206319	-22.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.17	0.00
2 1,4-Difluorobenze	10.28	9.95	10.61	10.29	0.05
3 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

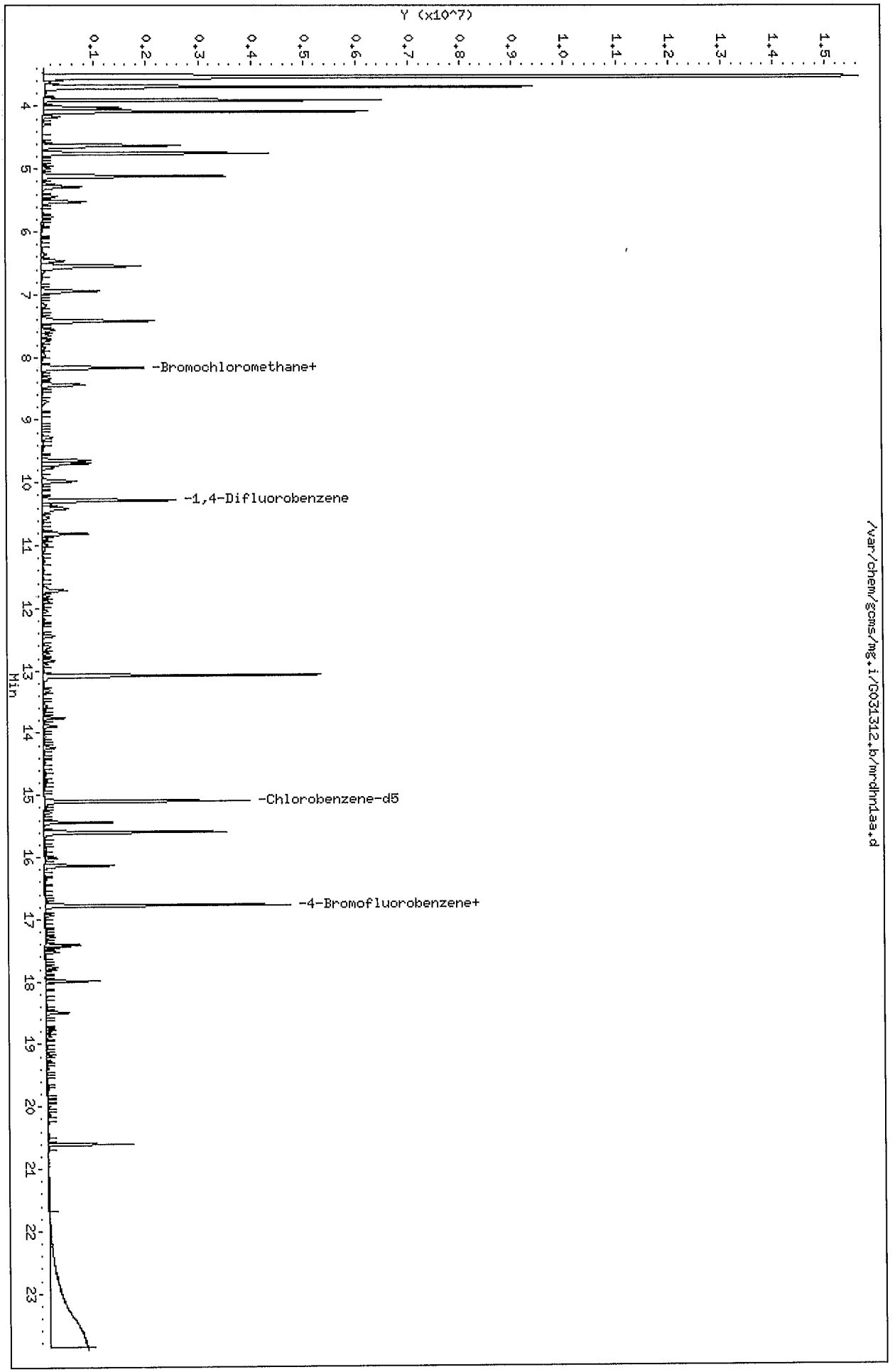
Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d
Report Date: 14-Mar-2012 13:25

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C10-MAR-2012 00:00 Client SDG: H2C130401
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MRDHN1AA Client Smp ID: HOUSE # 2 INDOOR MS
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.570	114.24	70-130


Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d
Date : 13-MAR-2012 21:18
Client ID: HOUSE # 2 INDOOR MS
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: mg.i
Operator: 7126
Column diameter: 0.32
Y (x10^7)
/var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene+
Min

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

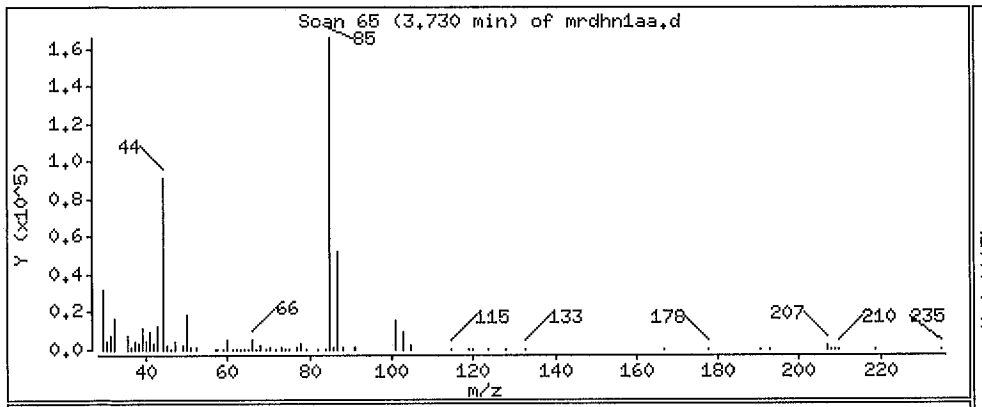
Operator: 7126

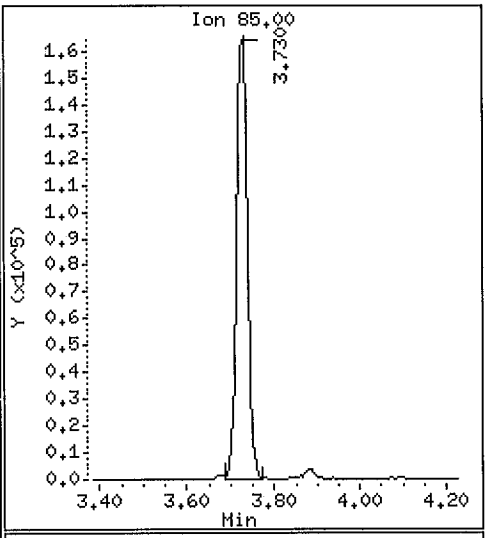
Column phase: Rtx-5

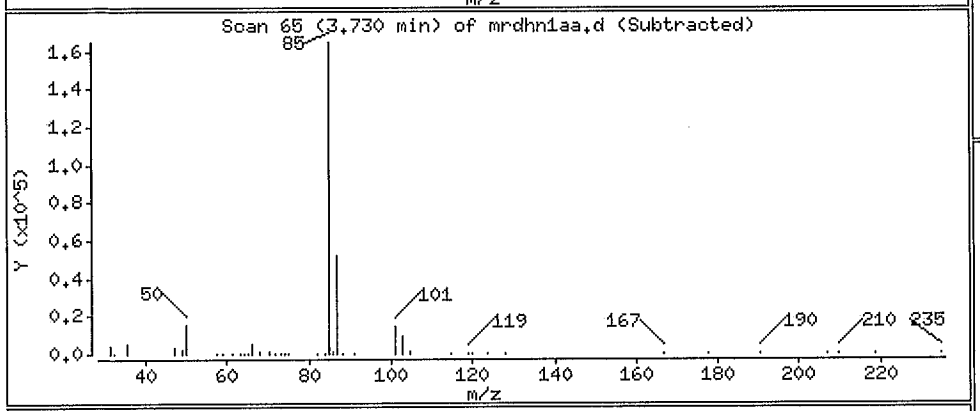
Column diameter: 0.32

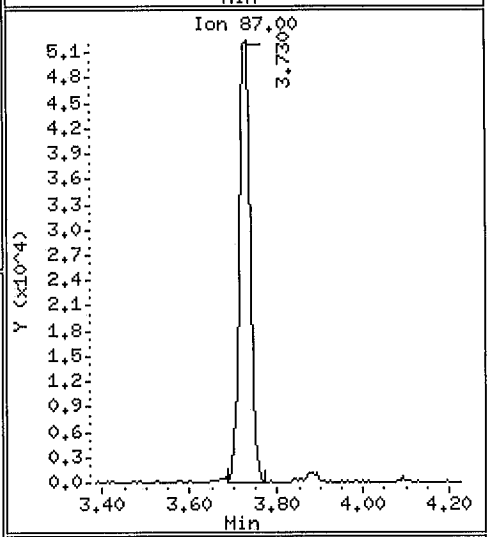
7 Dichlorodifluoromethane

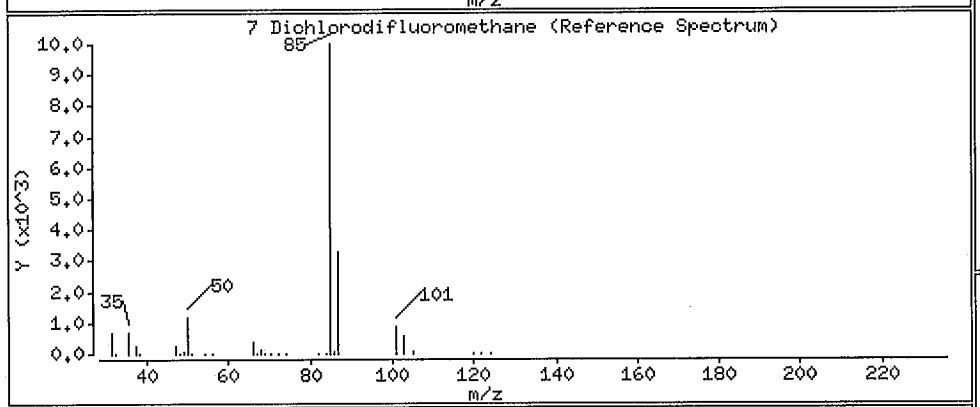
Concentration: 0.6587 ppb(v/v)

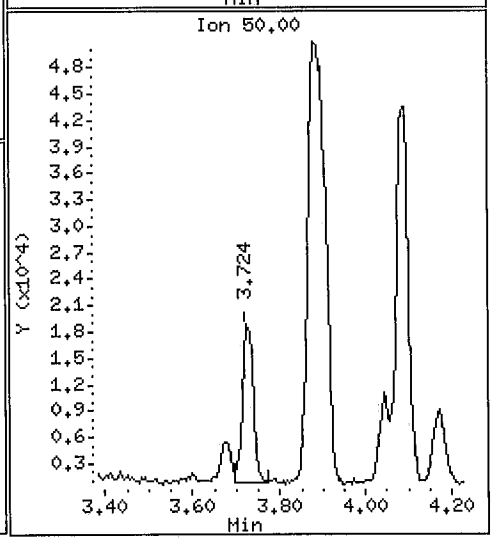


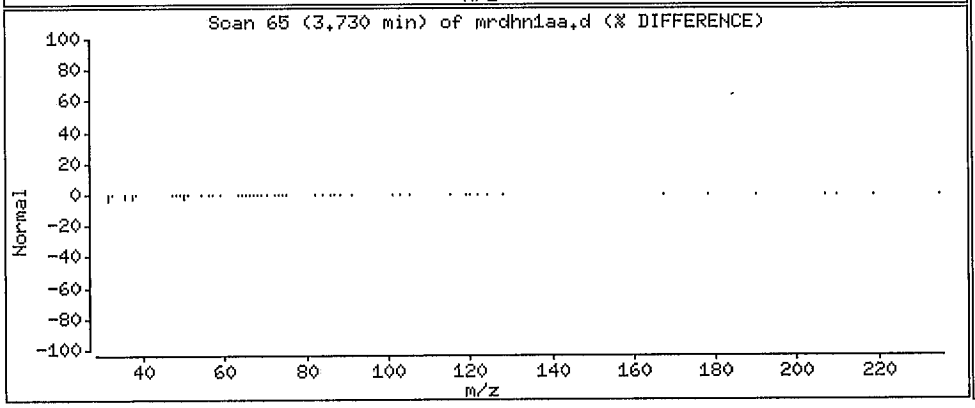












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

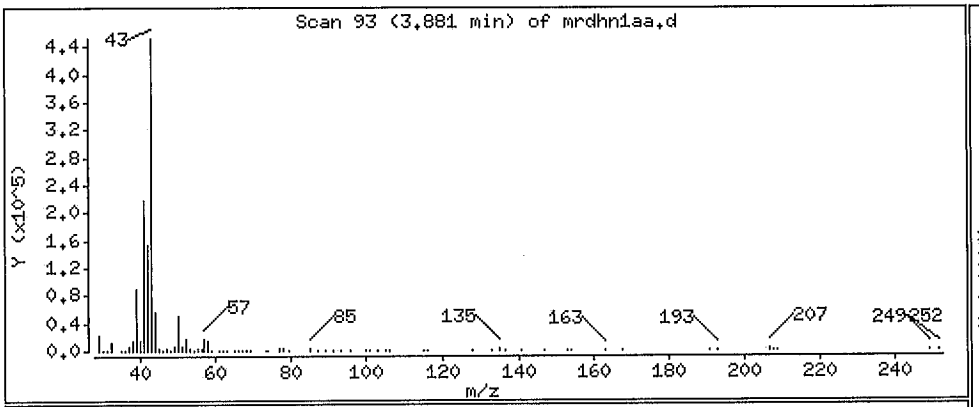
Operator: 7126

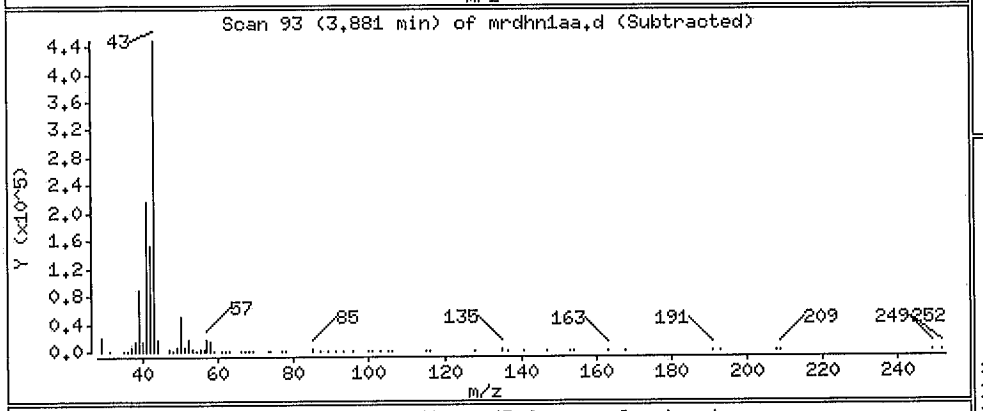
Column phase: Rtx-5

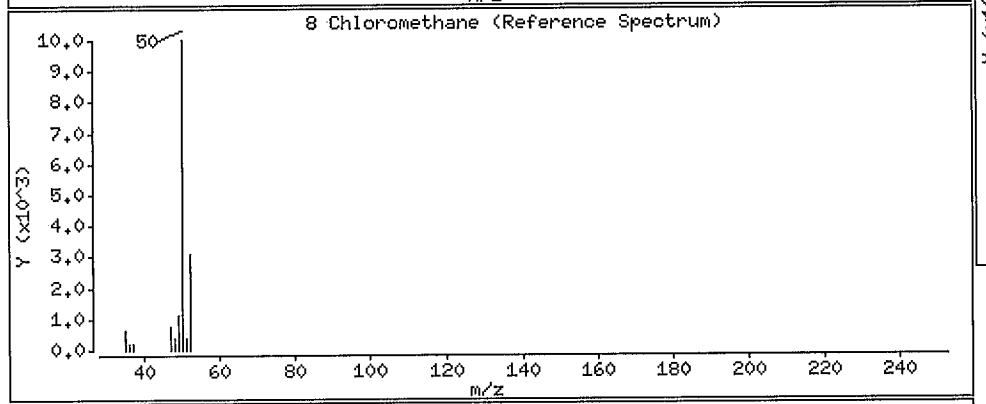
Column diameter: 0.32

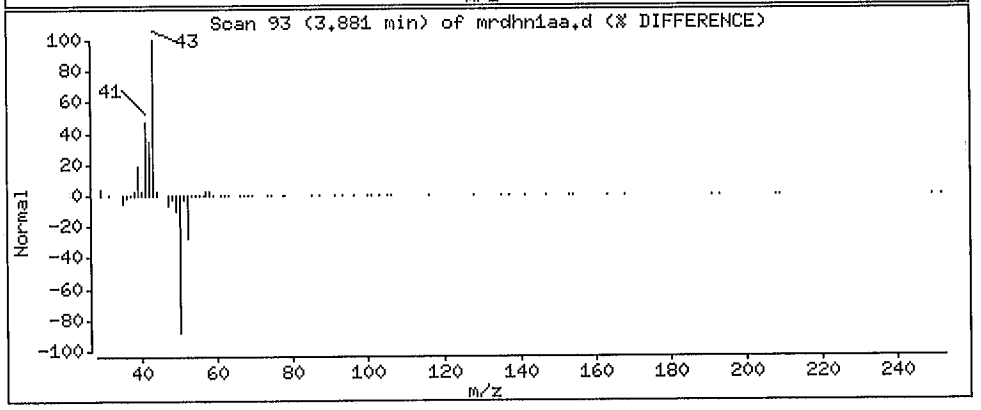
8 Chloromethane

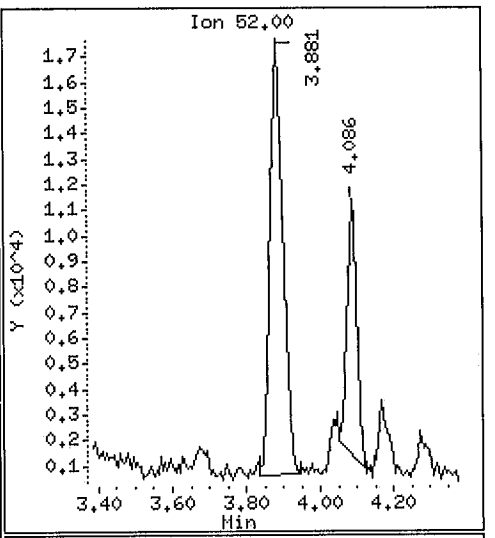
Concentration: 0.9075 ppb(v/v)

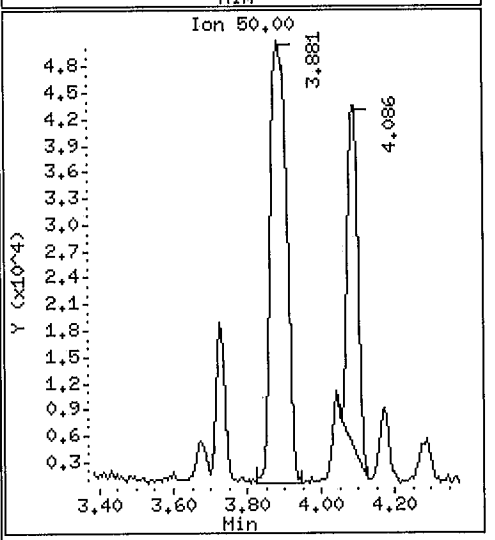












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

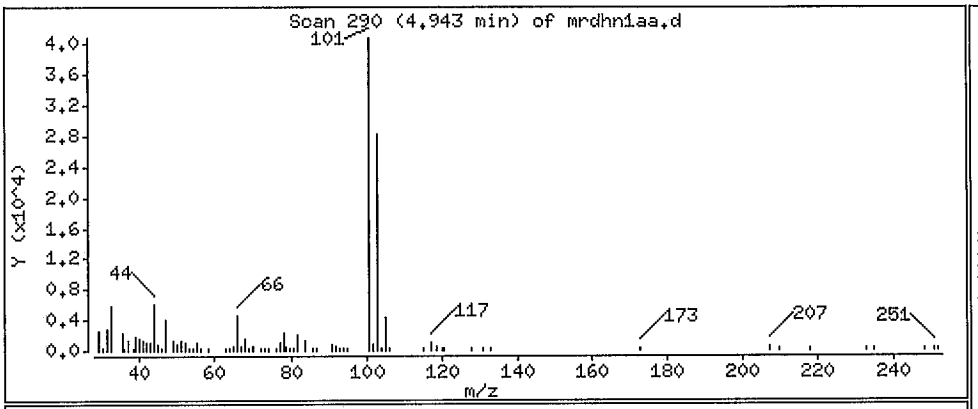
Operator: 7126

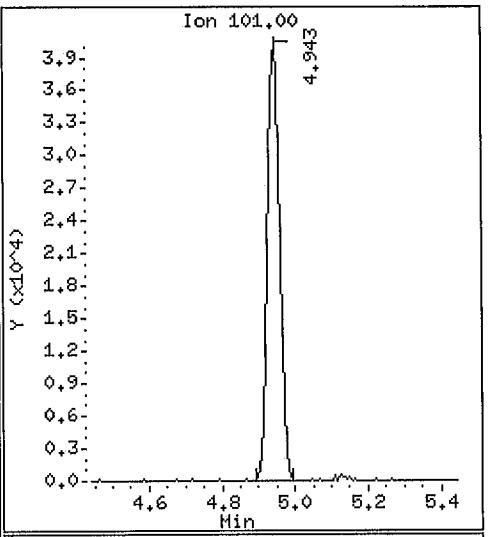
Column phase: Rtx-5

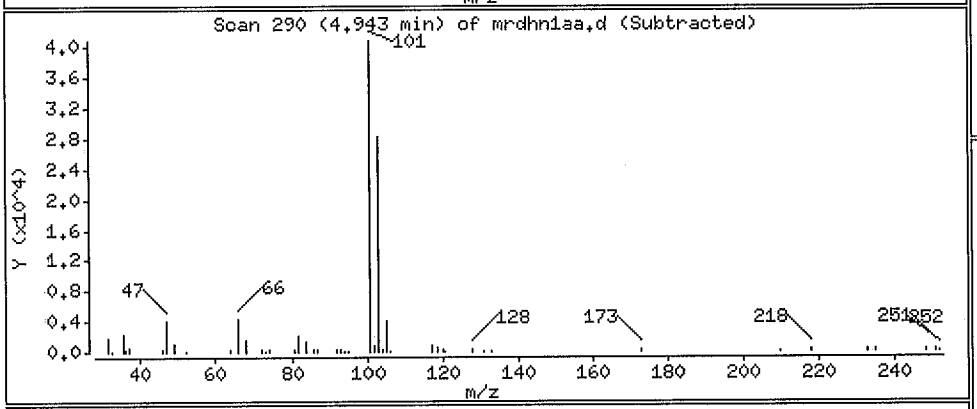
Column diameter: 0.32

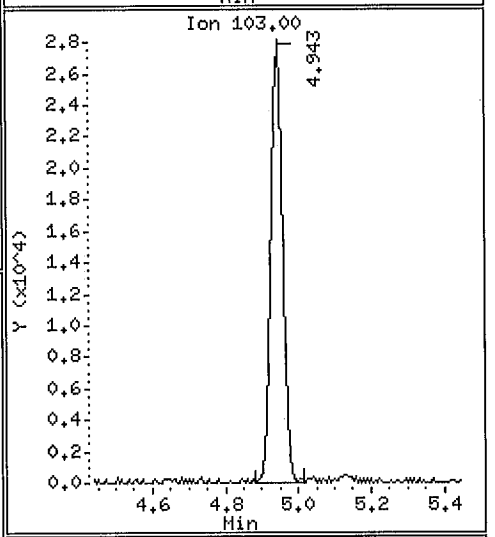
20 Trichlorofluoromethane

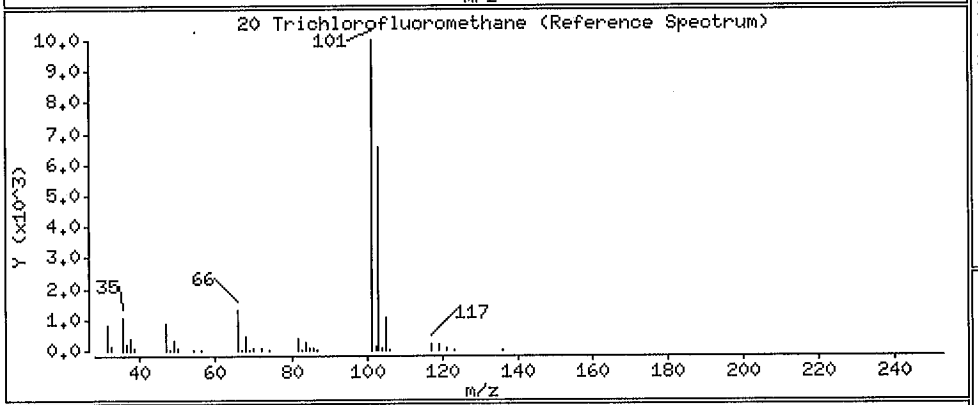
Concentration: 0.1962 ppb(v/v)

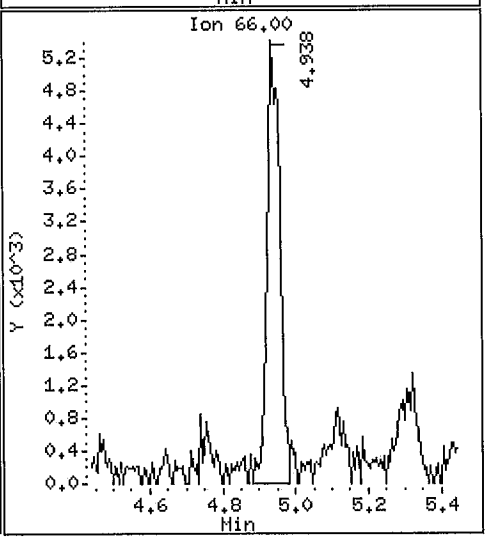


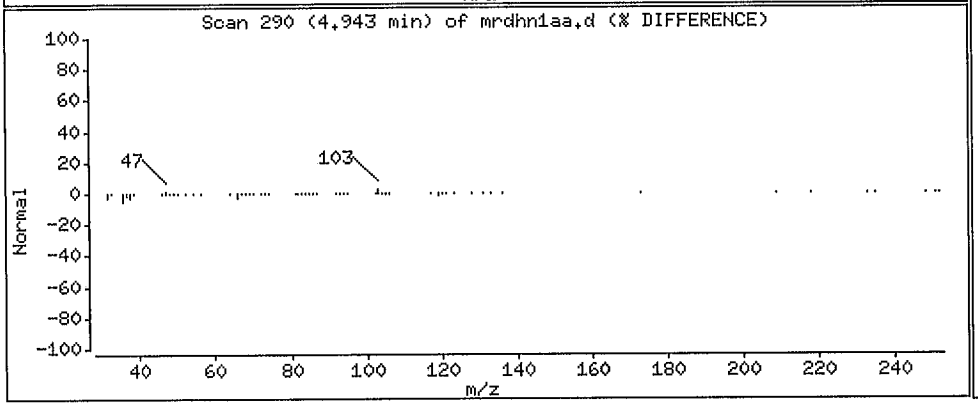












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

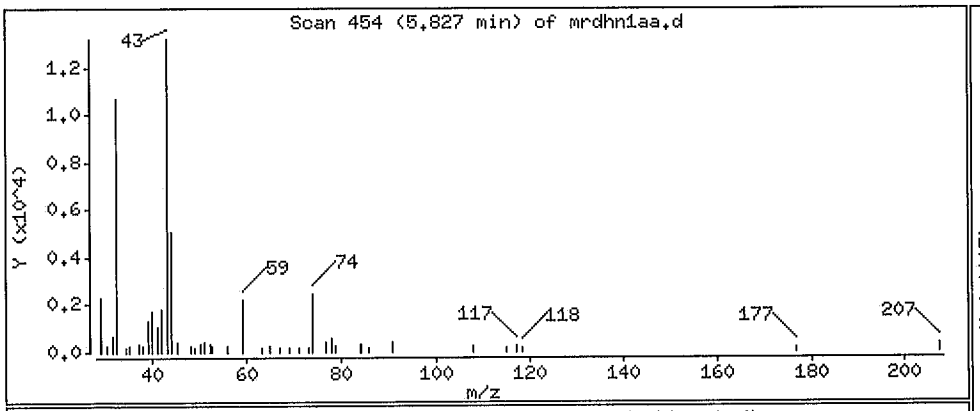
Operator: 7126

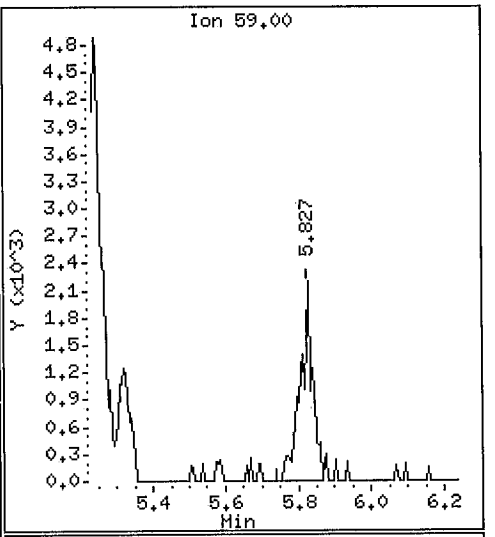
Column phase: Rtx-5

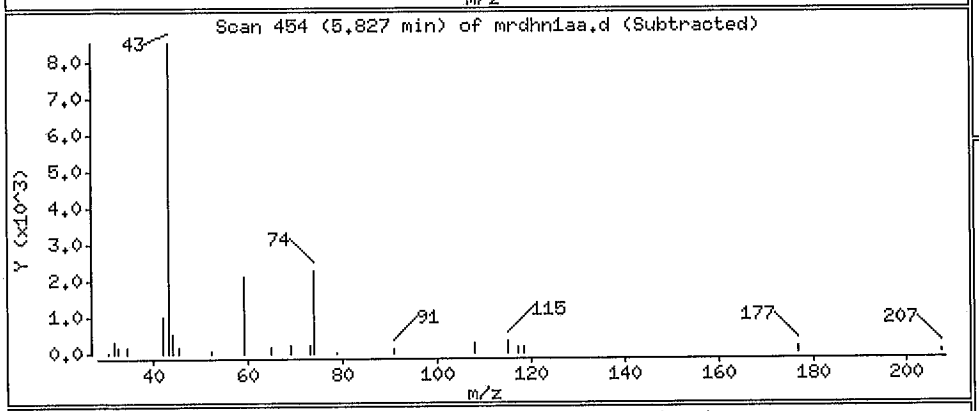
Column diameter: 0.32

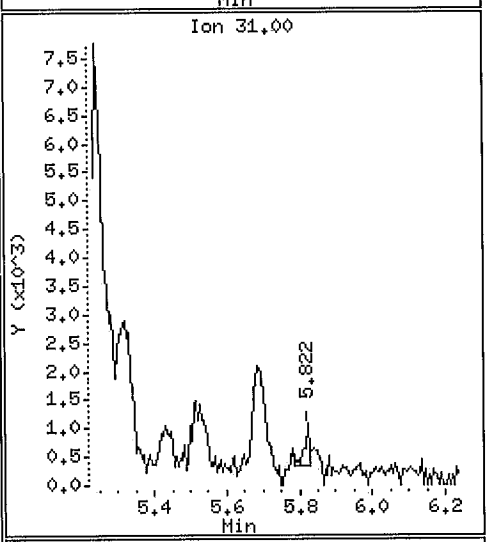
28 tert-butanol

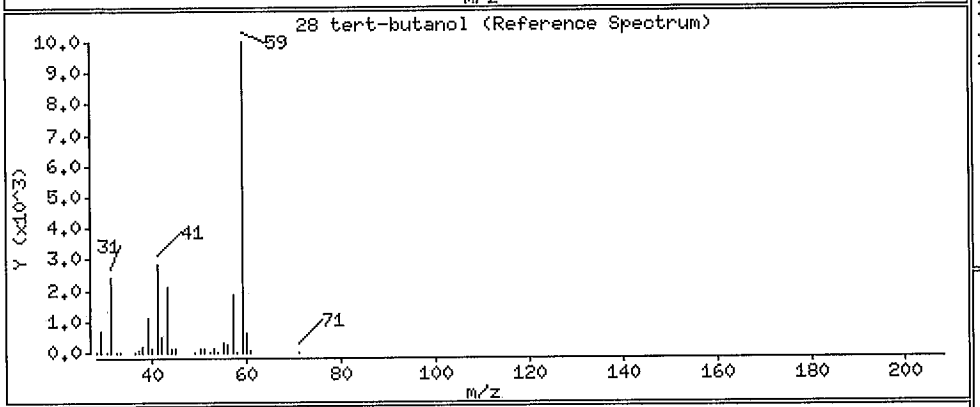
Concentration: 0.02949 ppb(v/v)

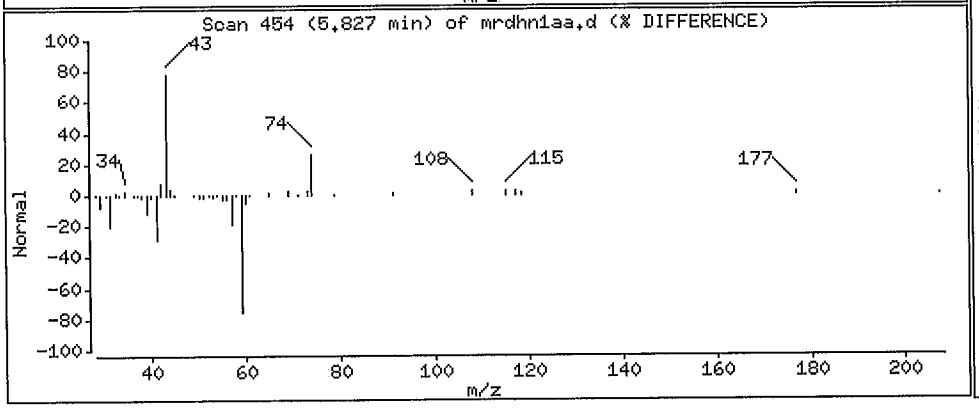


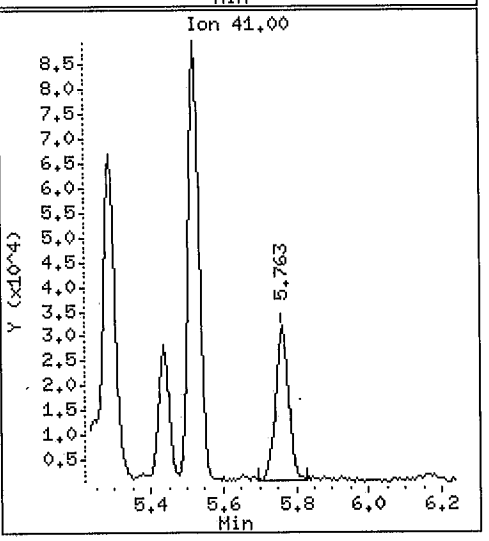












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

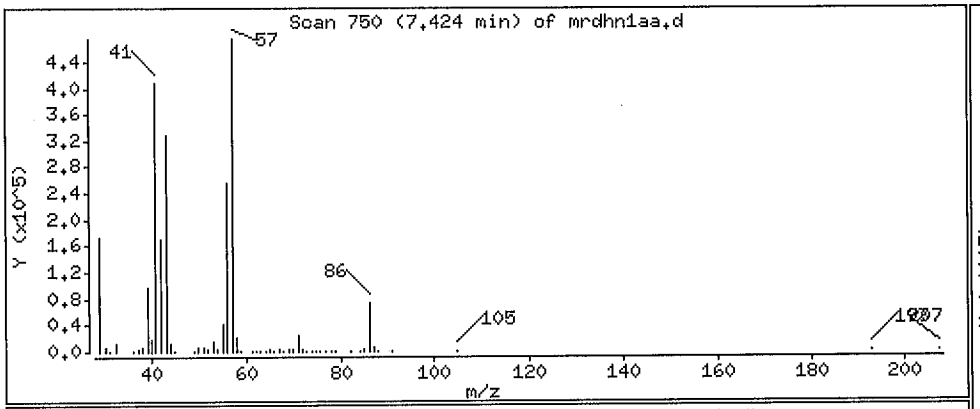
Operator: 7126

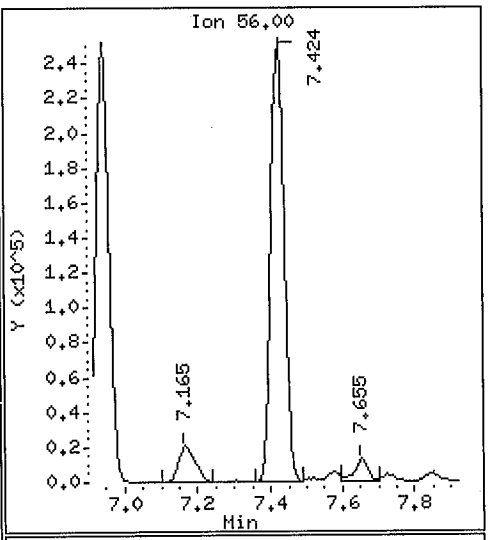
Column phase: Rtx-5

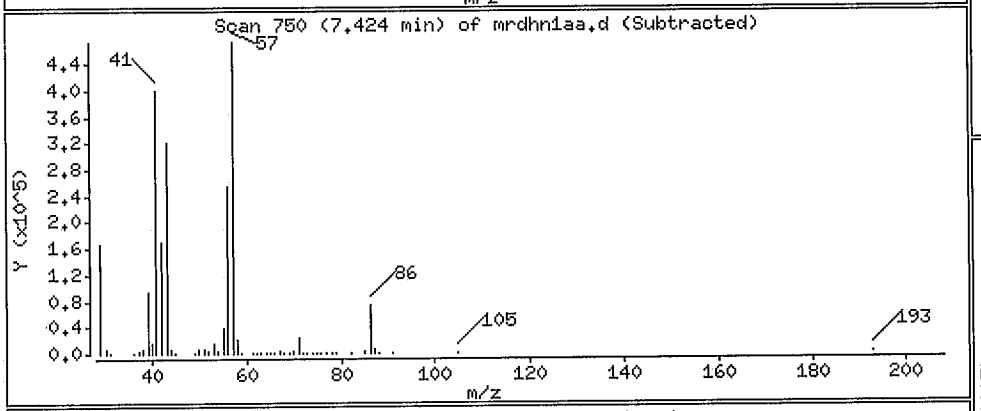
Column diameter: 0.32

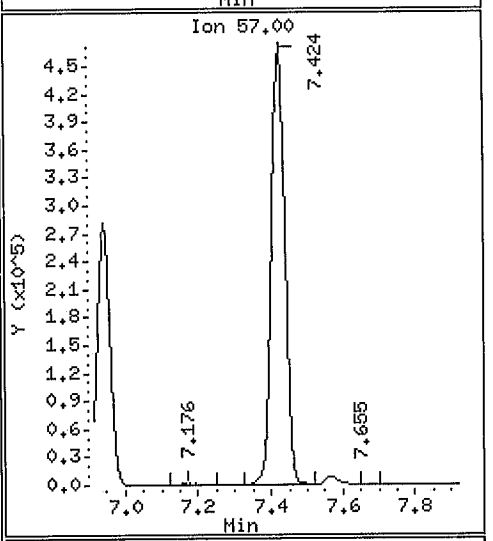
40 Hexane

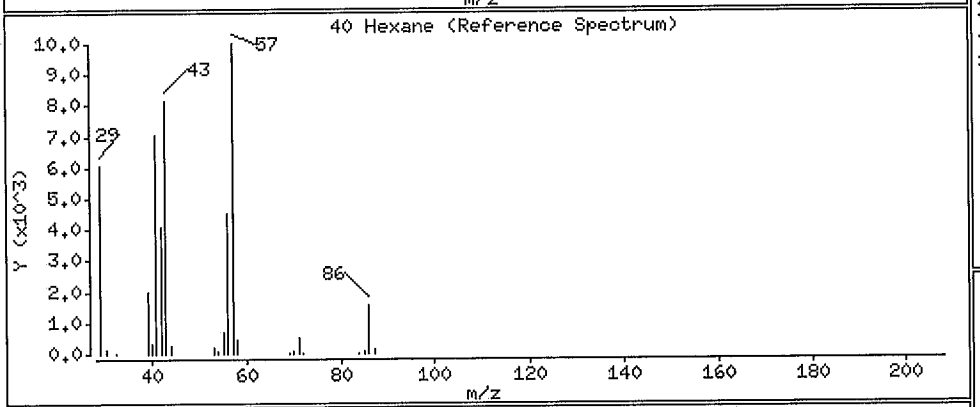
Concentration: 4.606 ppb(v/v)

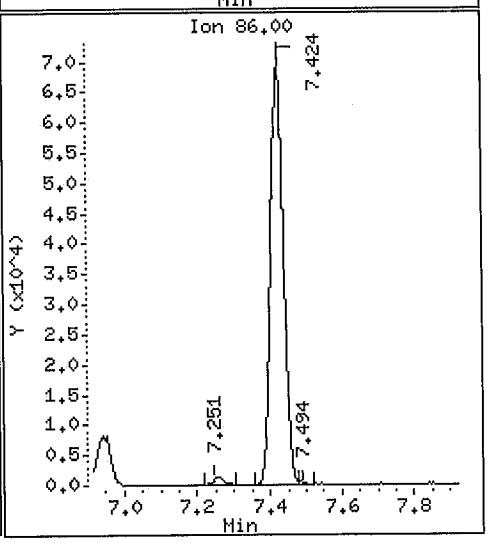


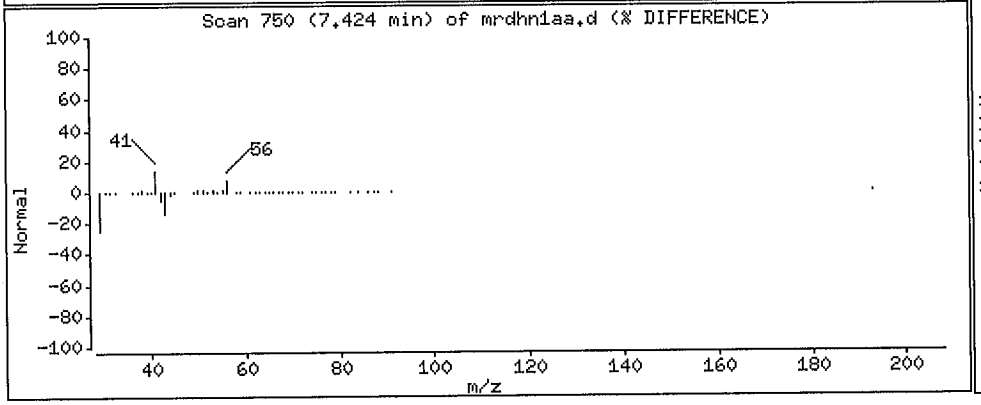












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

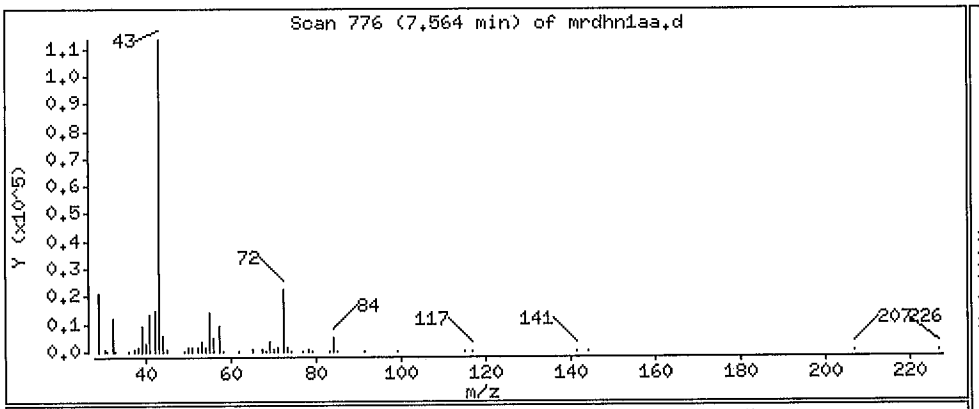
Operator: 7126

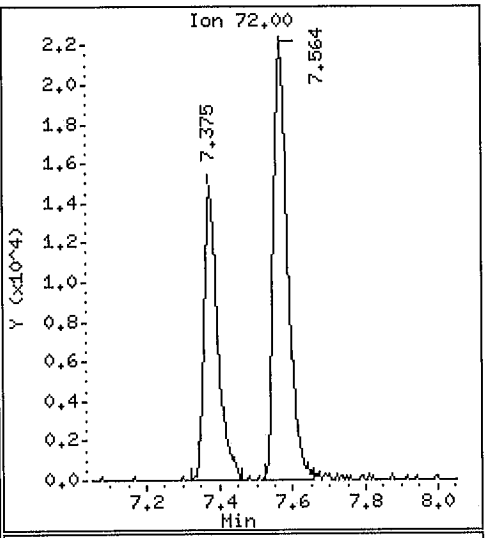
Column phase: Rtx-5

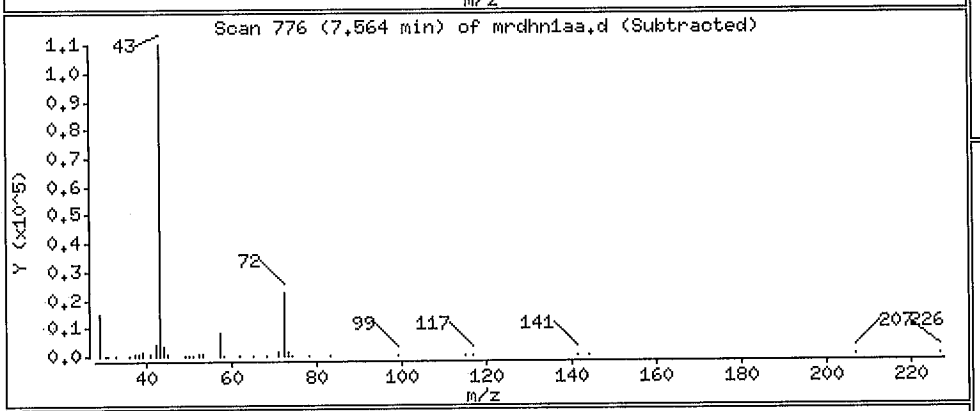
Column diameter: 0.32

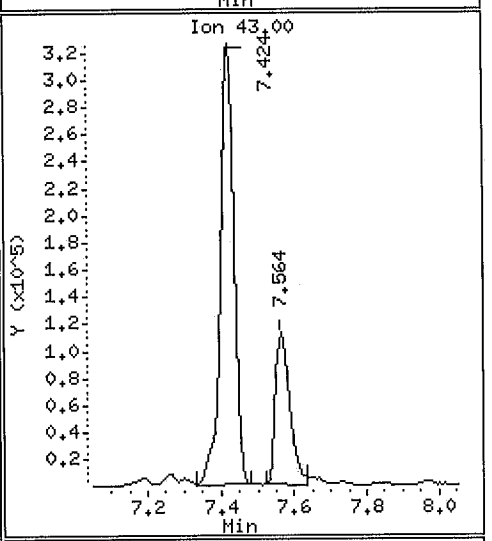
39 2-Butanone

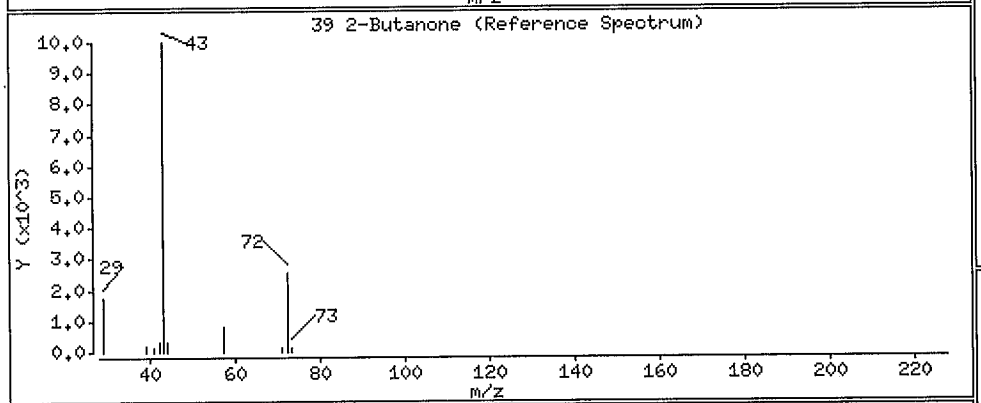
Concentration: 0.9192 ppb(v/v)

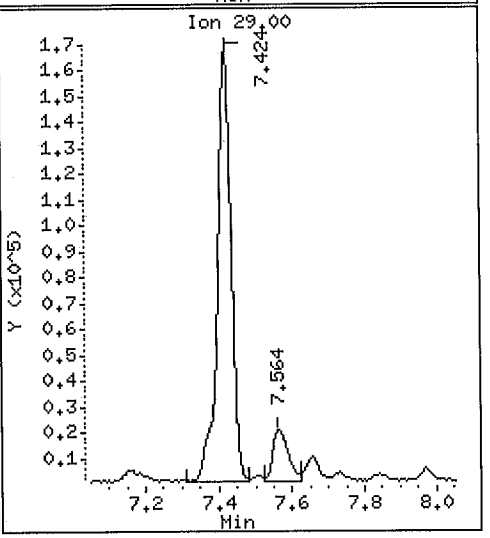


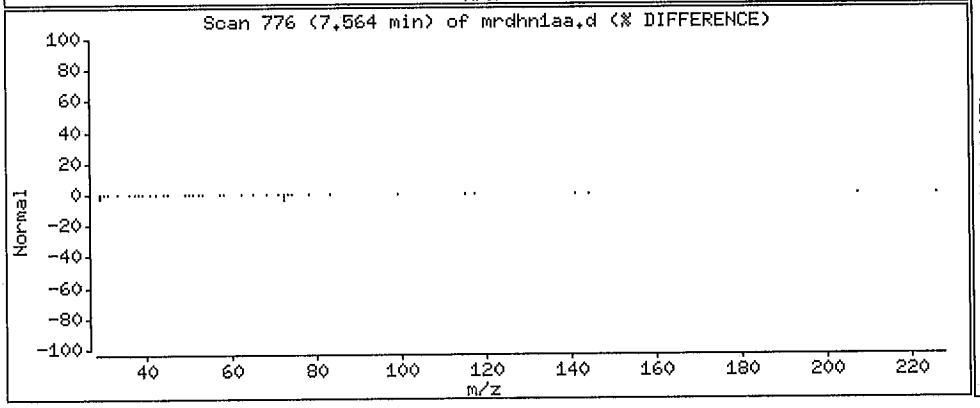












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

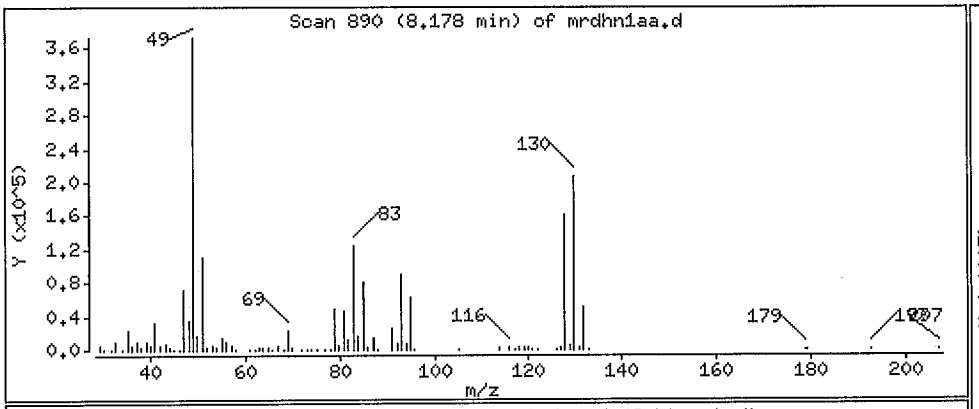
Operator: 7126

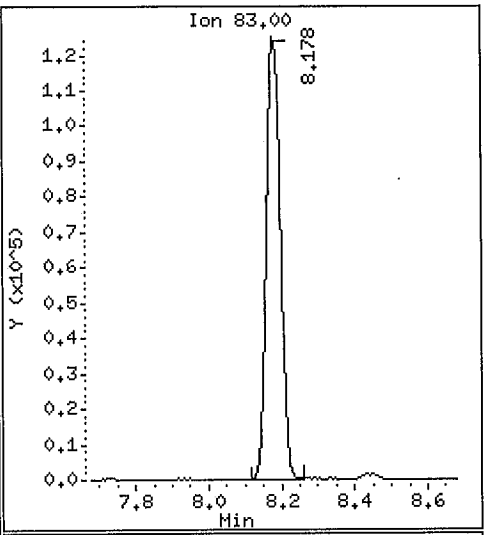
Column phase: Rtx-5

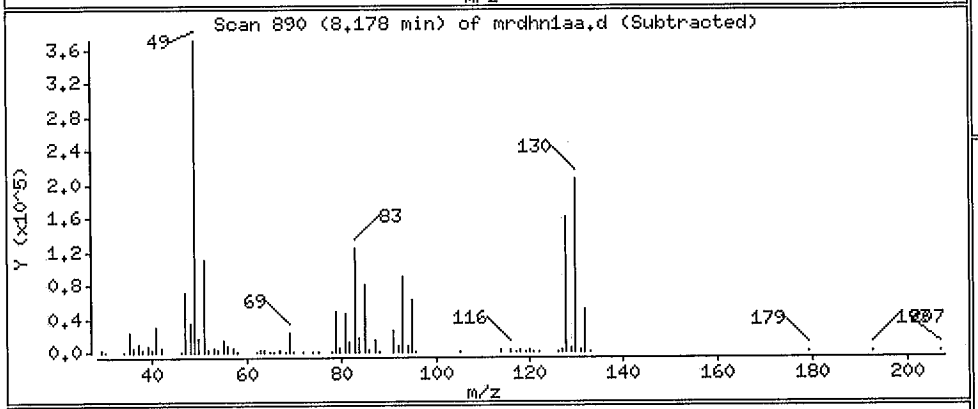
Column diameter: 0.32

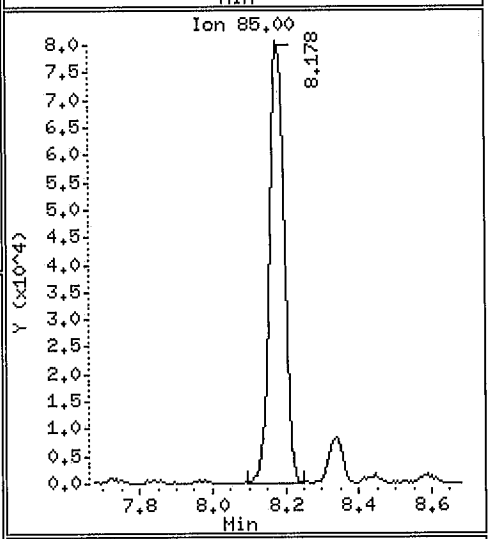
43 Chloroform

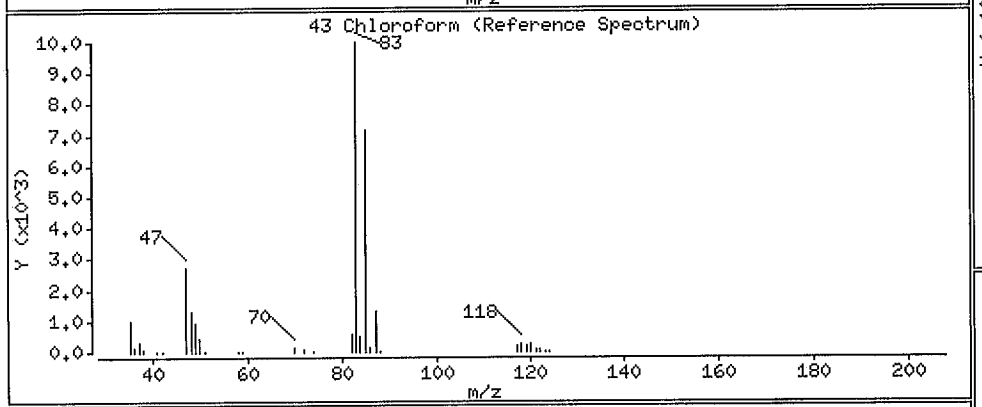
Concentration: 0.9485 ppb(v/v)

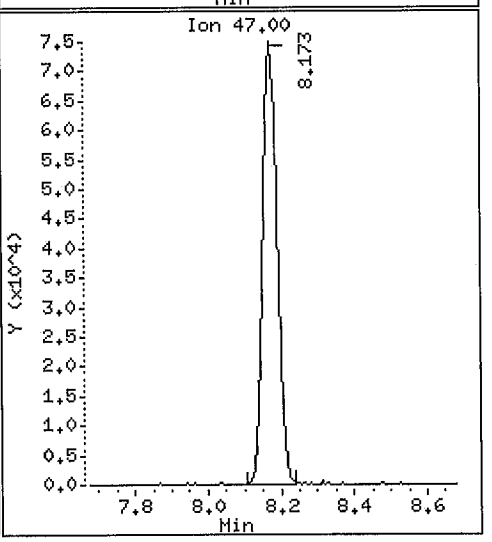


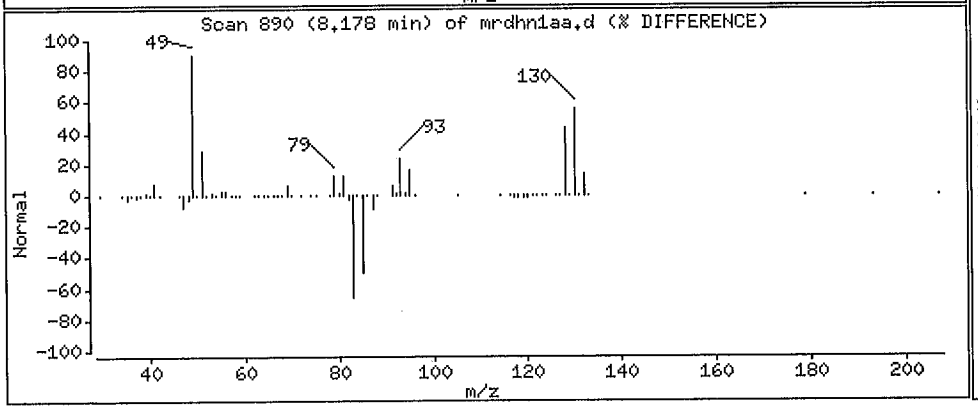












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

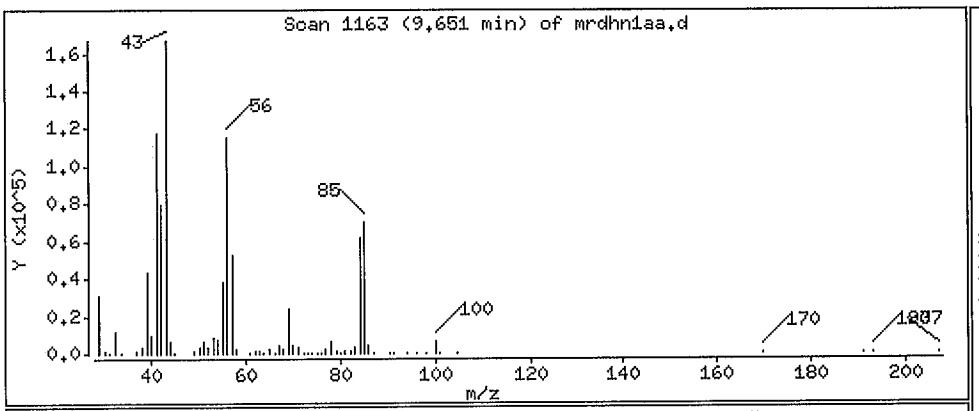
Operator: 7126

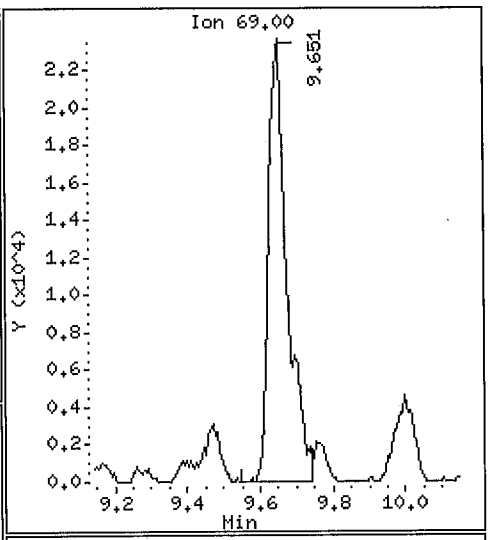
Column phase: Rtx-5

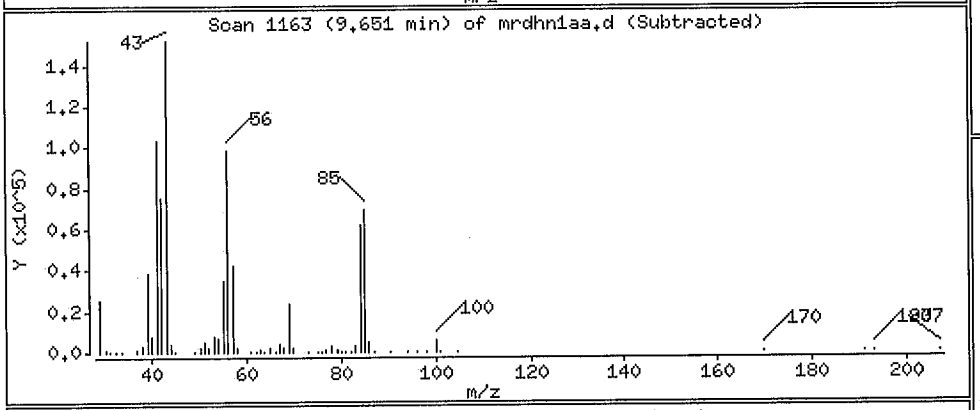
Column diameter: 0.32

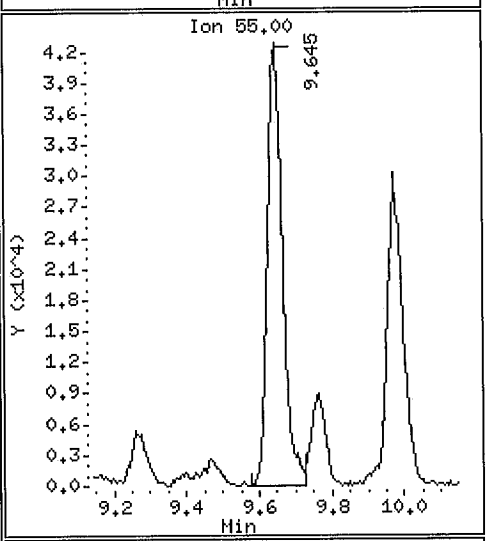
49 Cyclohexane

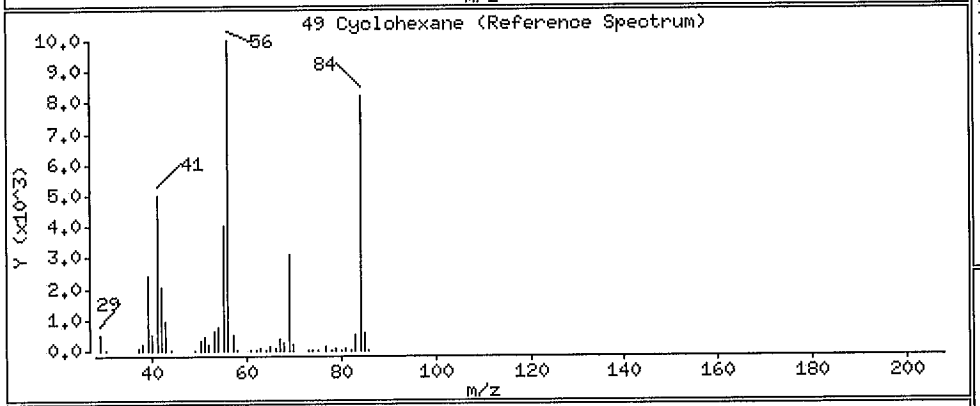
Concentration: 0.9725 ppb(v/v)

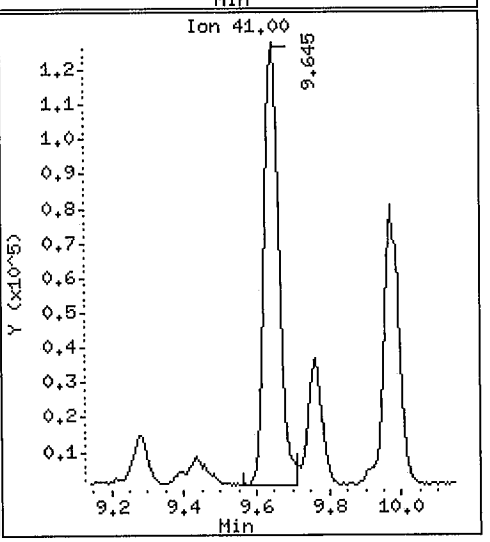


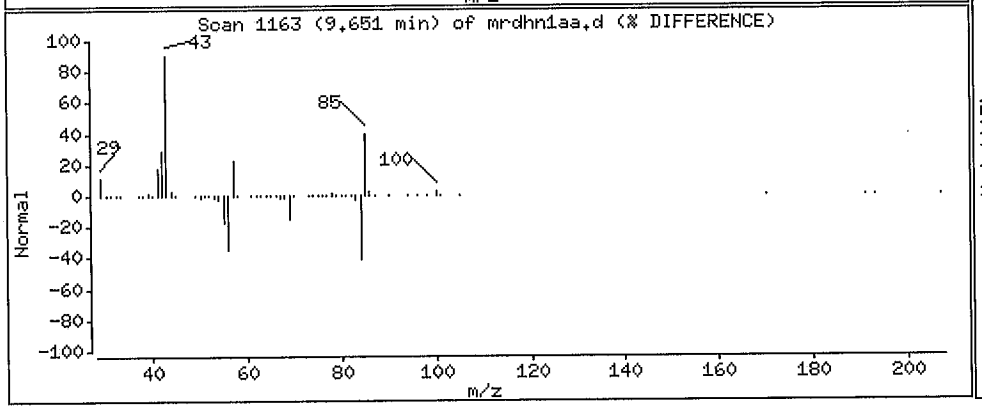












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

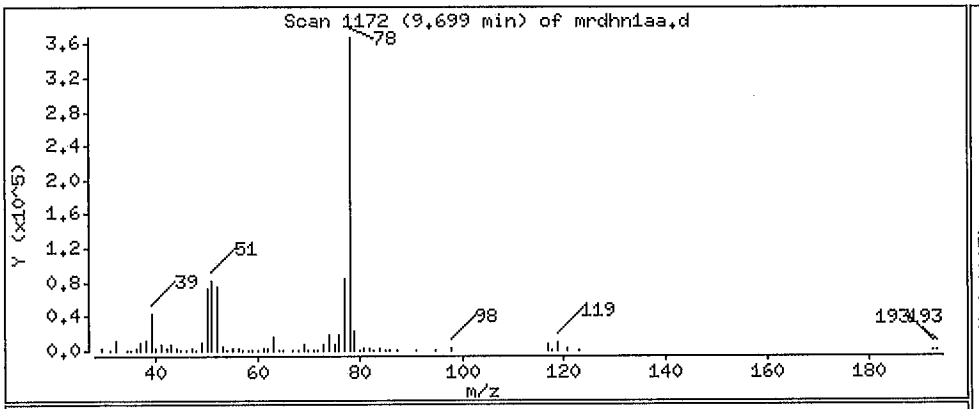
Operator: 7126

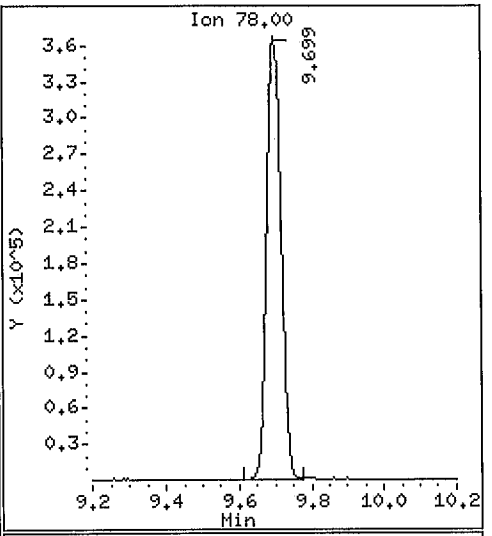
Column phase: Rtx-5

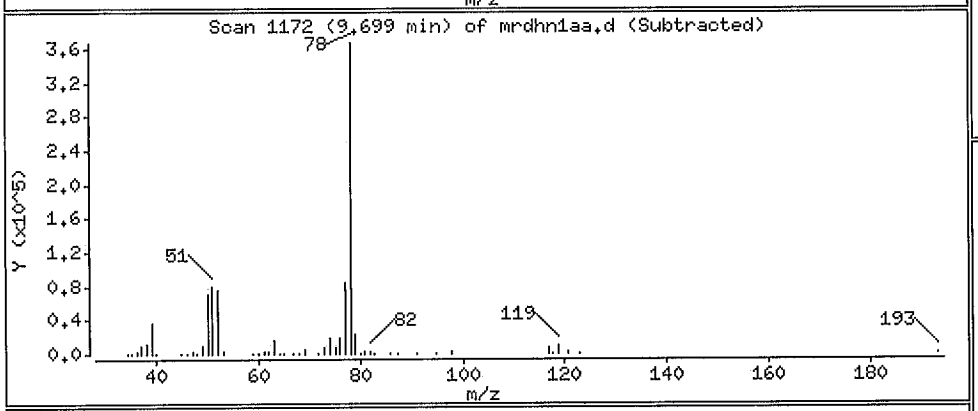
Column diameter: 0.32

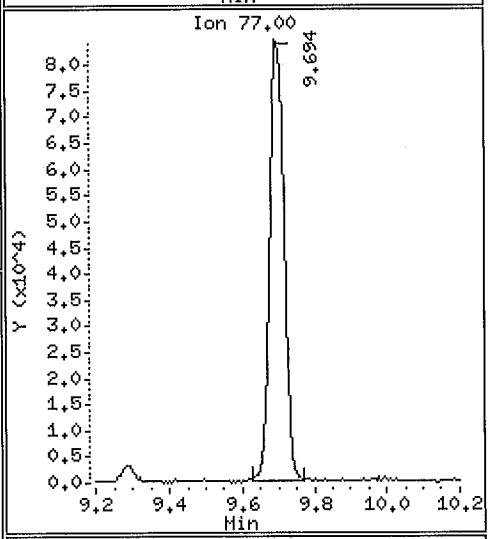
48 Benzene

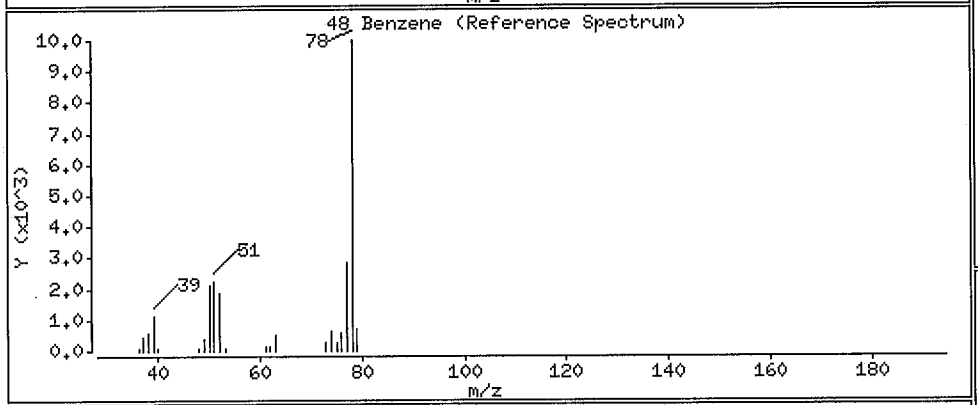
Concentration: 2.169 ppb(v/v)

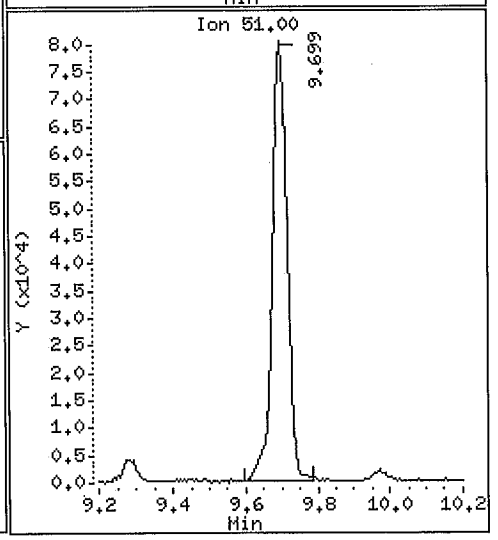


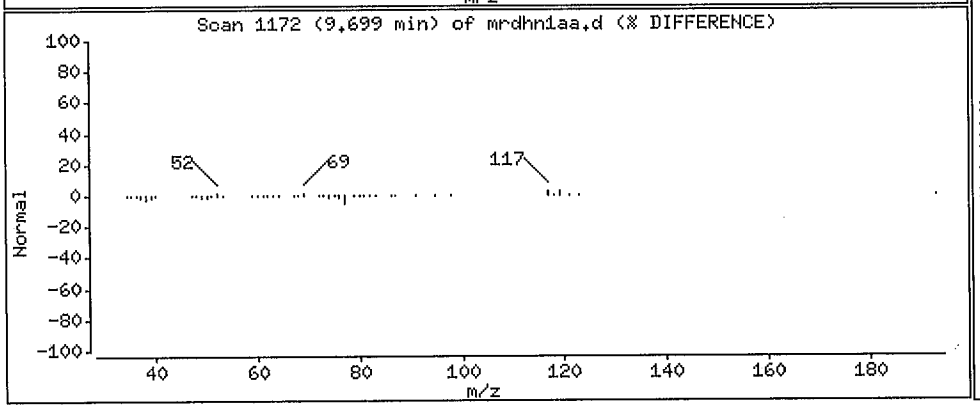












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

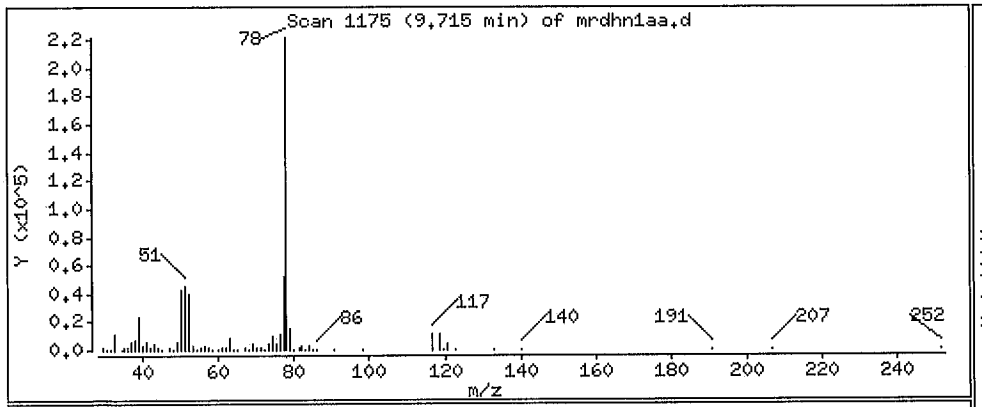
Operator: 7126

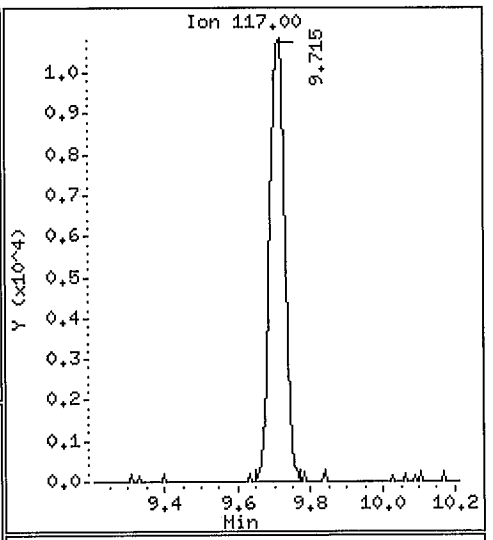
Column phase: Rtx-5

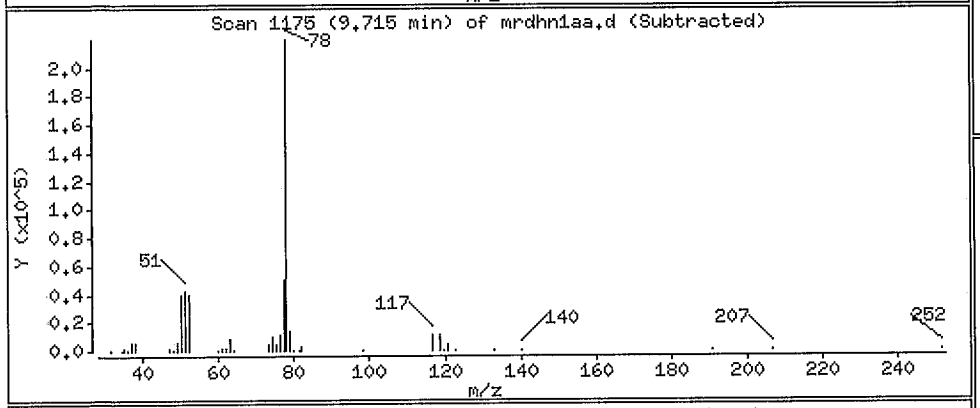
Column diameter: 0.32

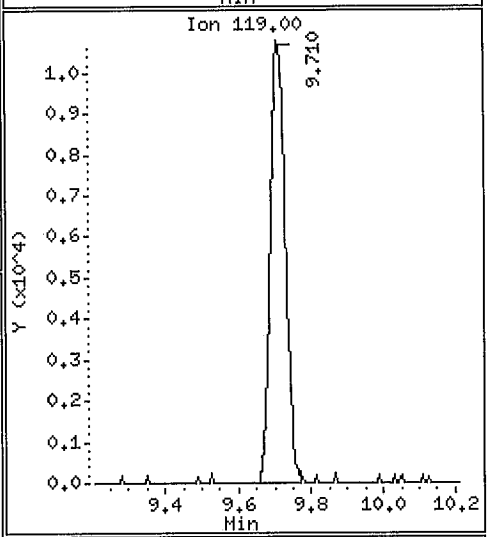
50 Carbon Tetrachloride

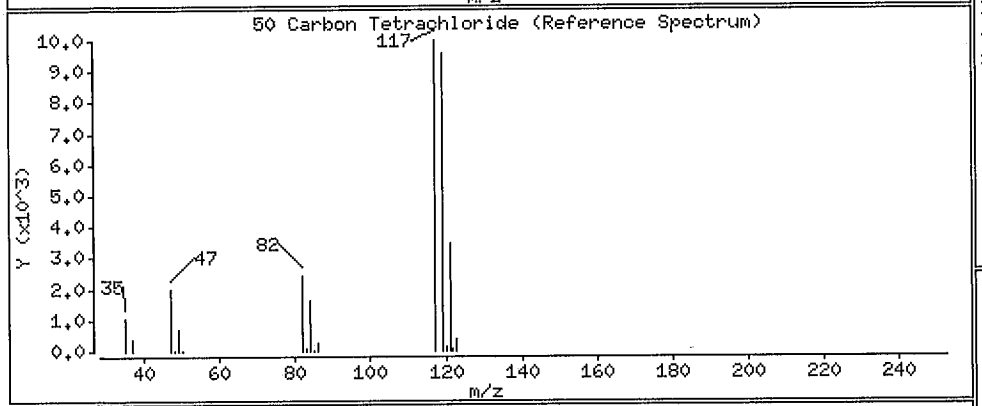
Concentration: 0.07628 ppb(v/v)

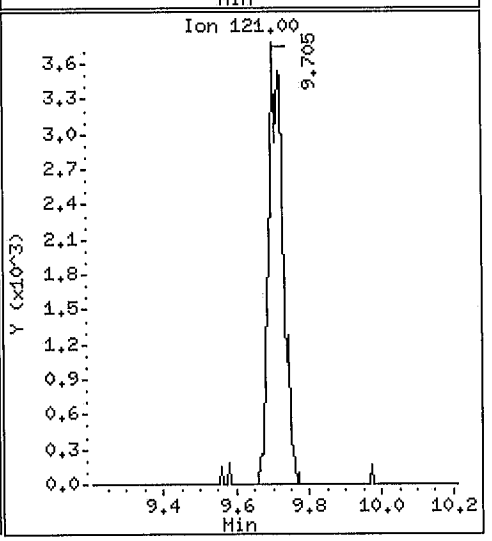


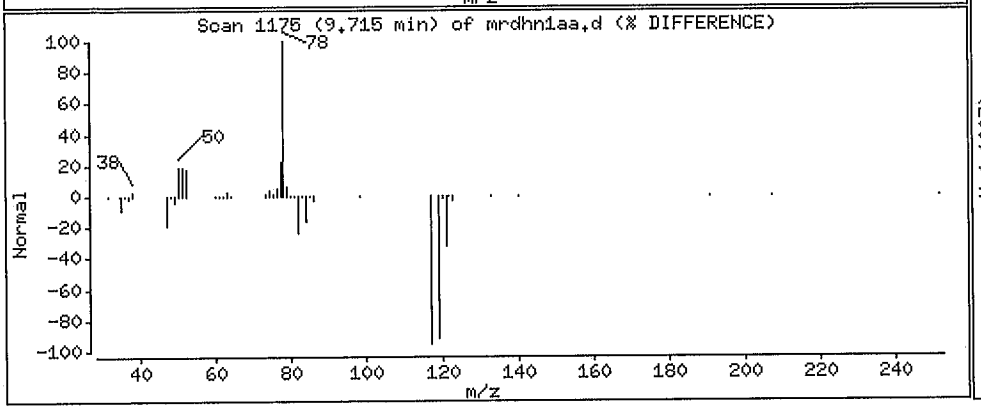












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

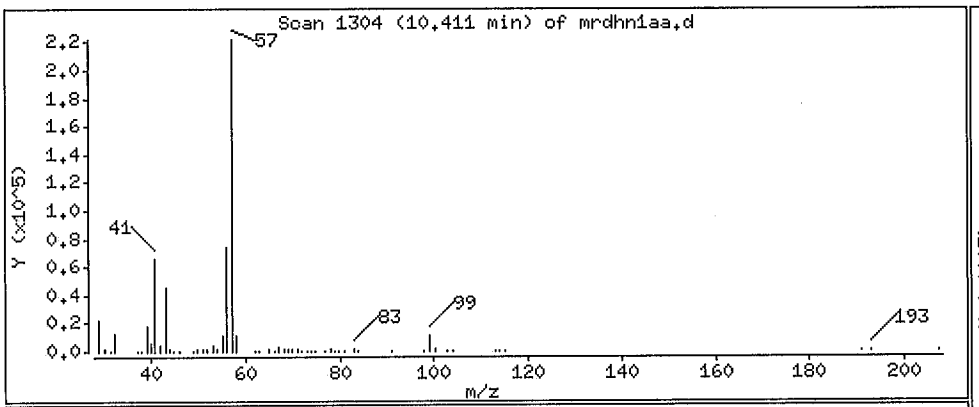
Operator: 7126

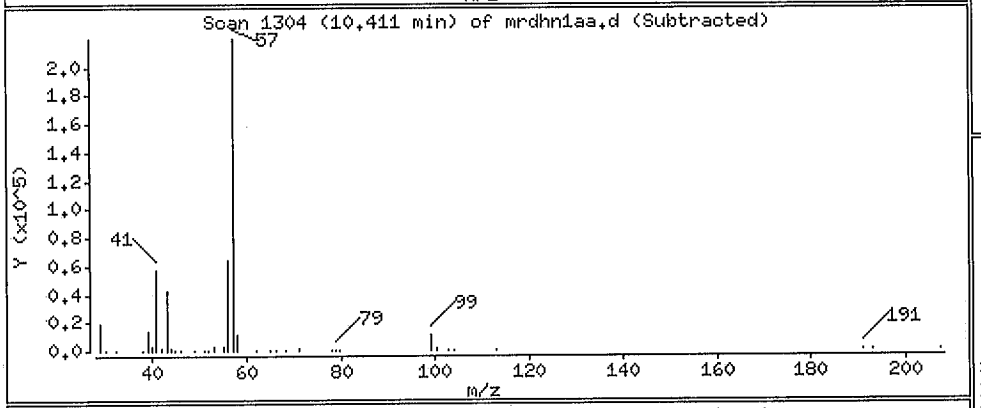
Column phase: Rtx-5

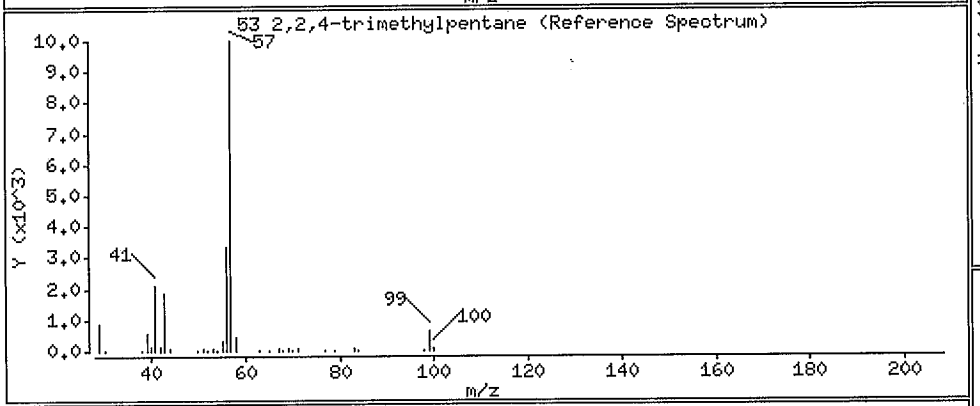
Column diameter: 0.32

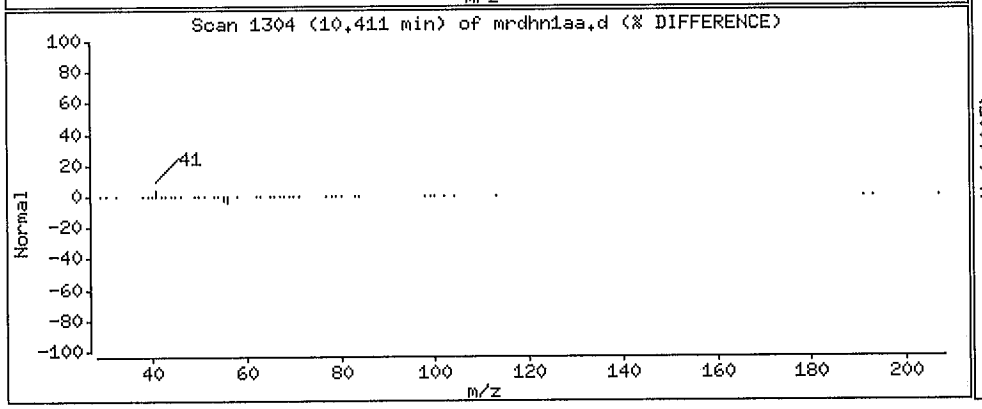
53 2,2,4-trimethylpentane

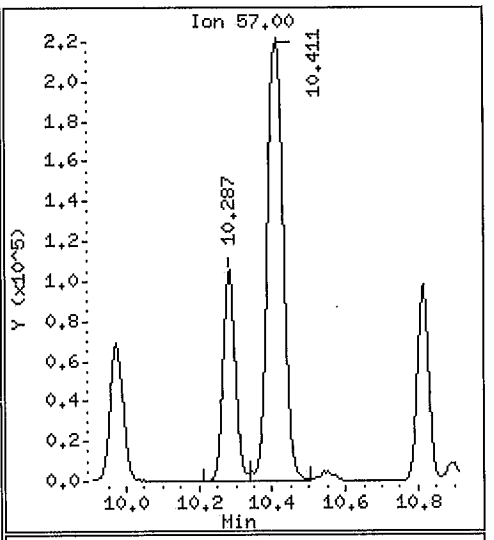
Concentration: 0.8611 ppb(v/v)

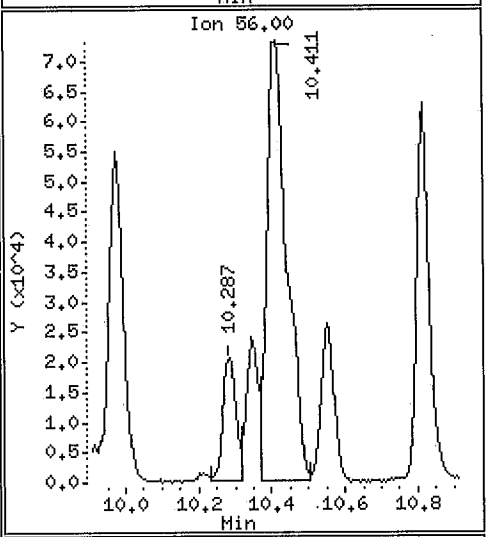


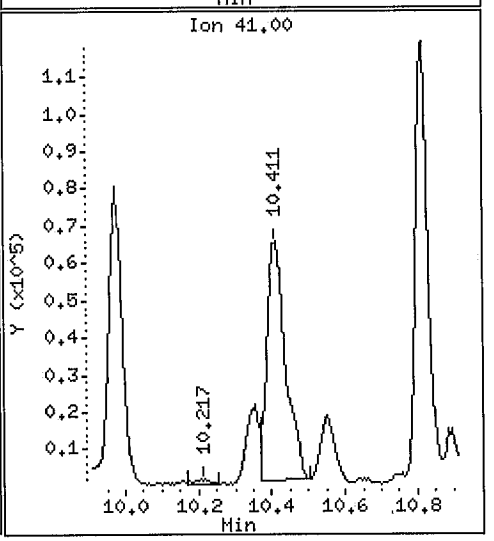












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

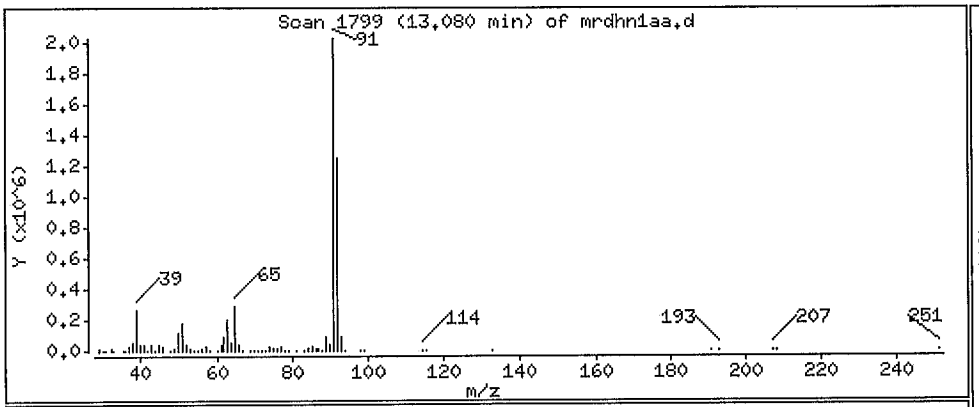
Operator: 7126

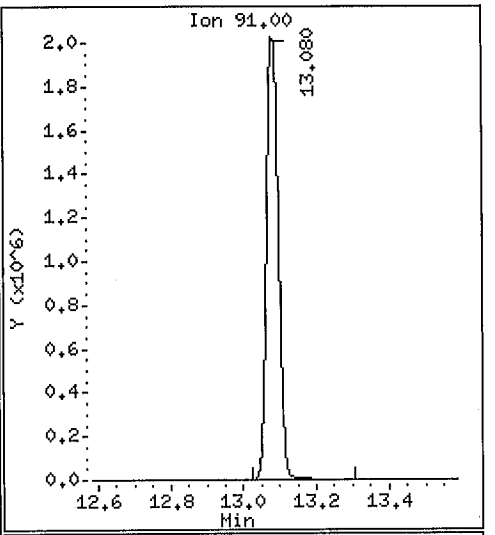
Column phase: Rtx-5

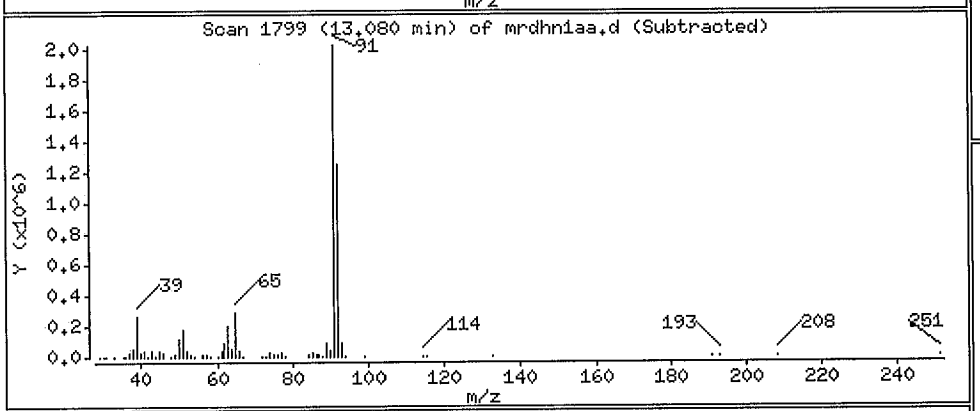
Column diameter: 0.32

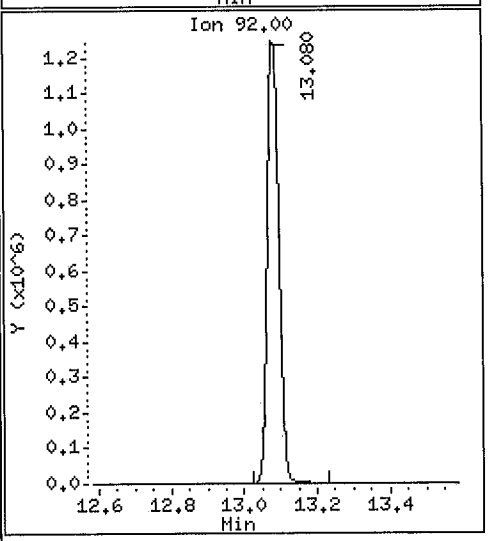
65 Toluene

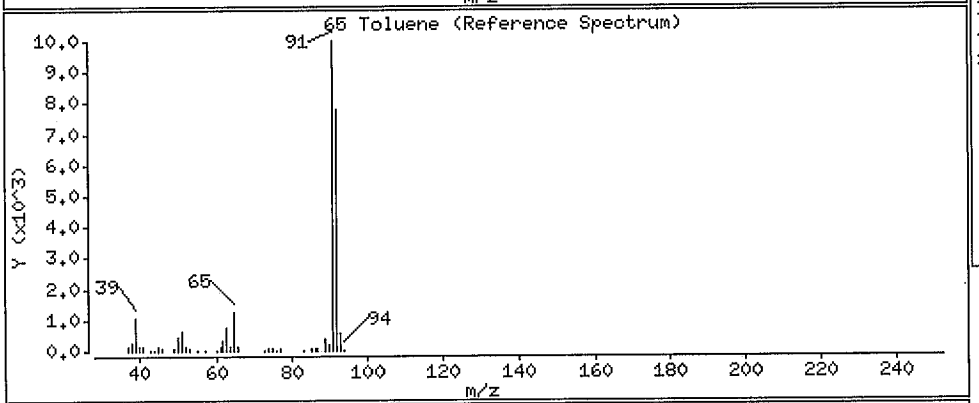
Concentration: 7.535 ppb(v/v)

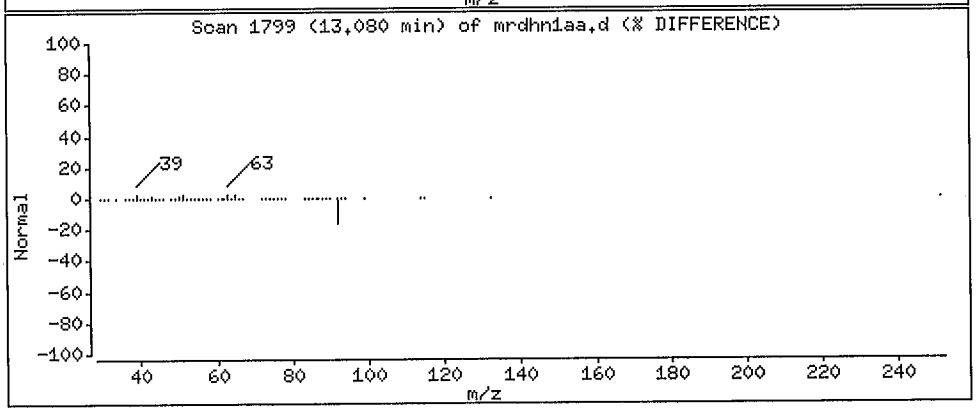












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

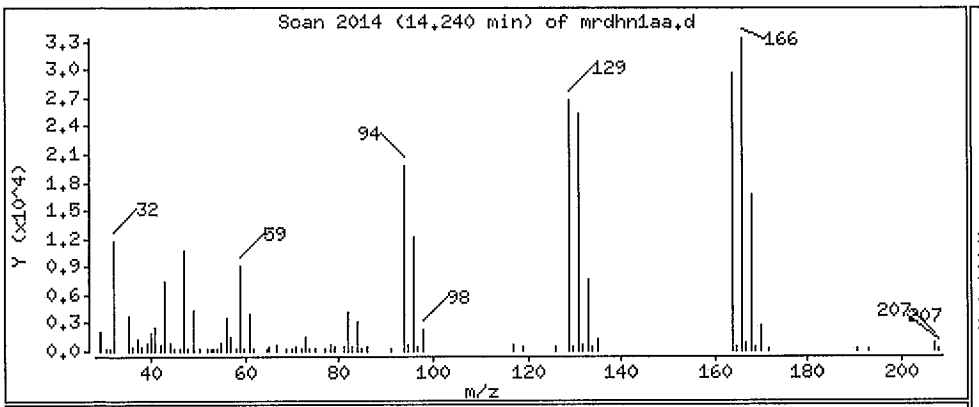
Operator: 7126

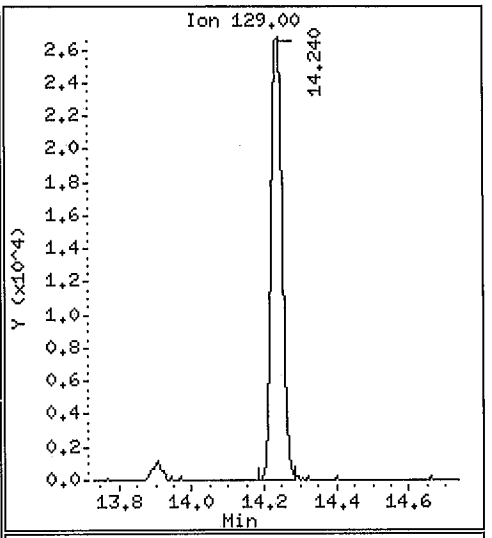
Column phase: Rtx-5

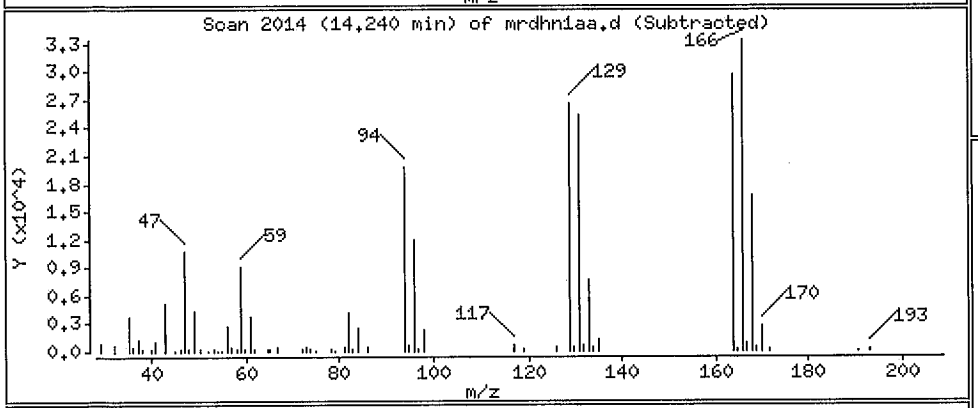
Column diameter: 0.32

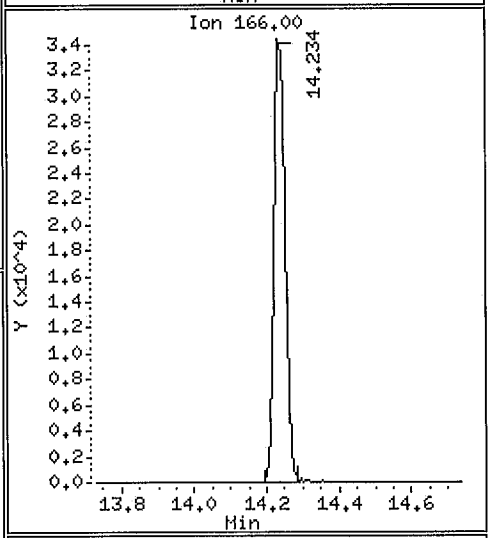
73 Tetrachloroethene

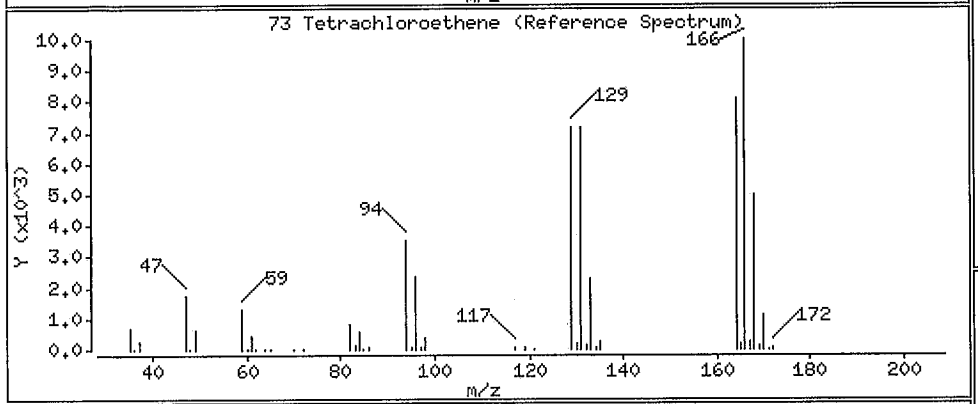
Concentration: 0.2428 ppb(v/v)

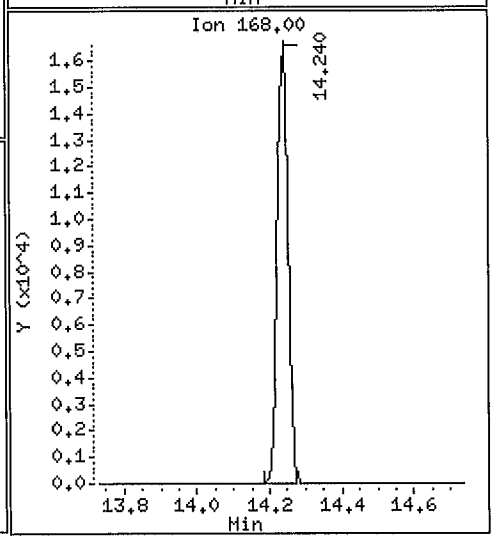


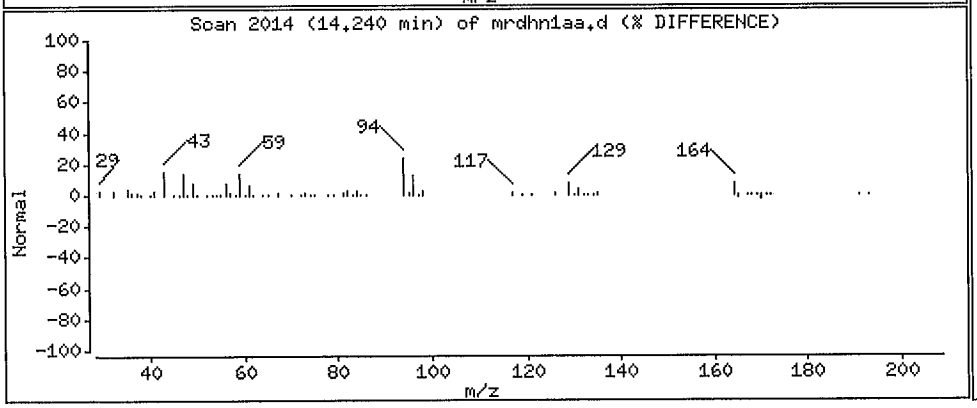












Data File: /var/chem/goms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

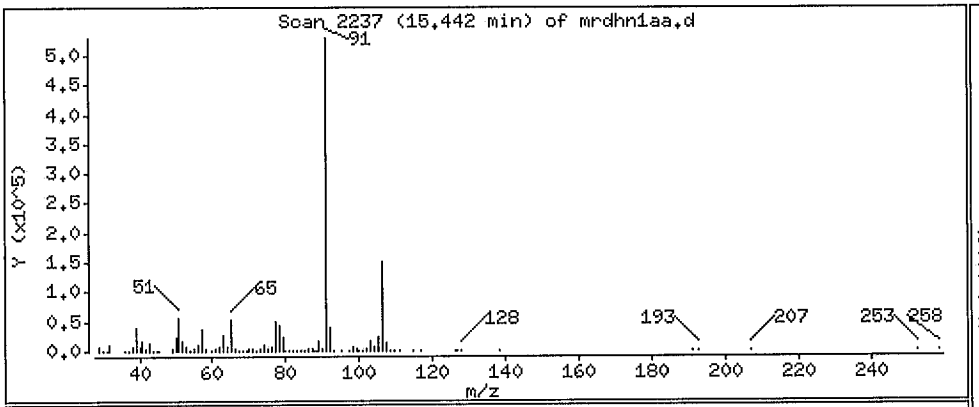
Operator: 7126

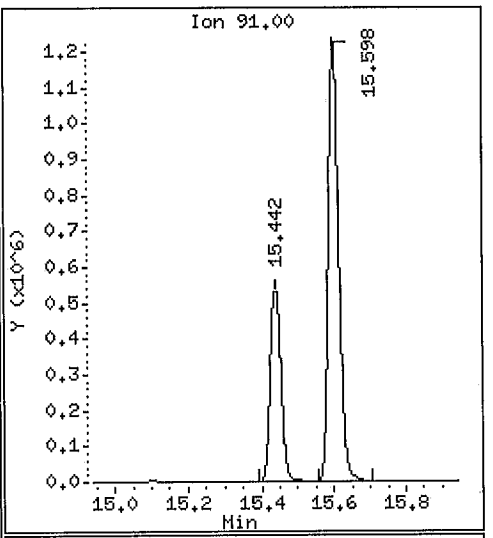
Column phase: Rtx-5

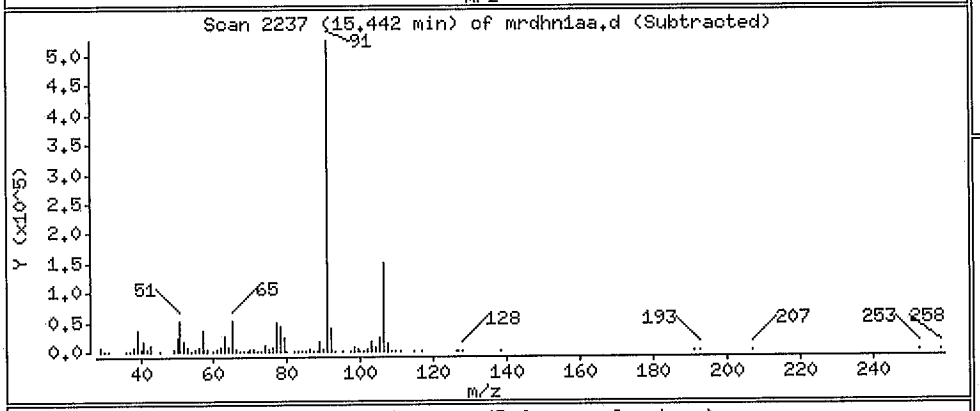
Column diameter: 0.32

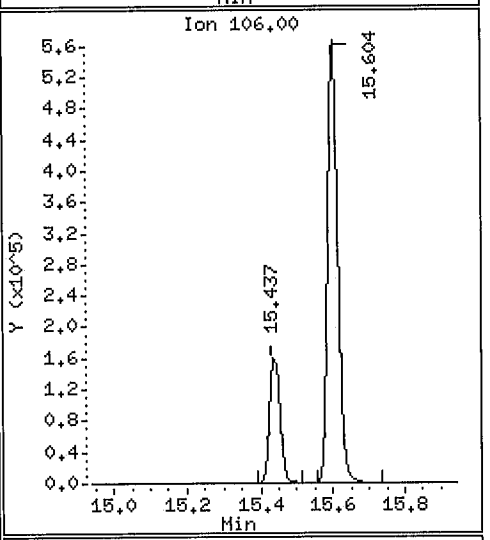
76 Ethylbenzene

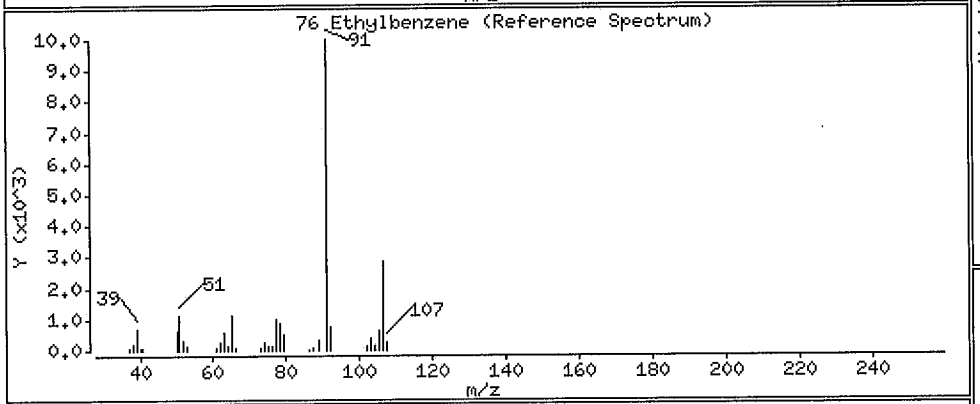
Concentration: 1.436 ppb(v/v)

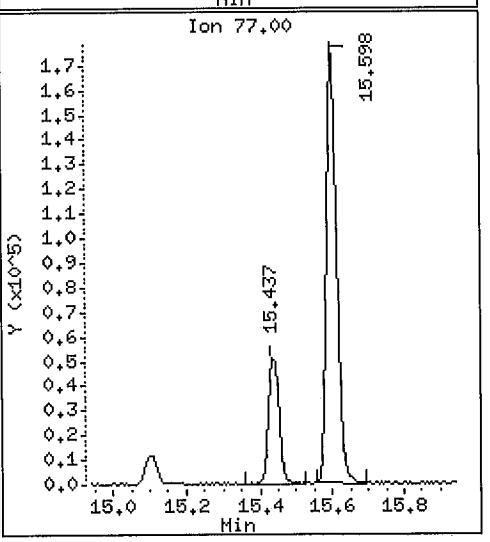


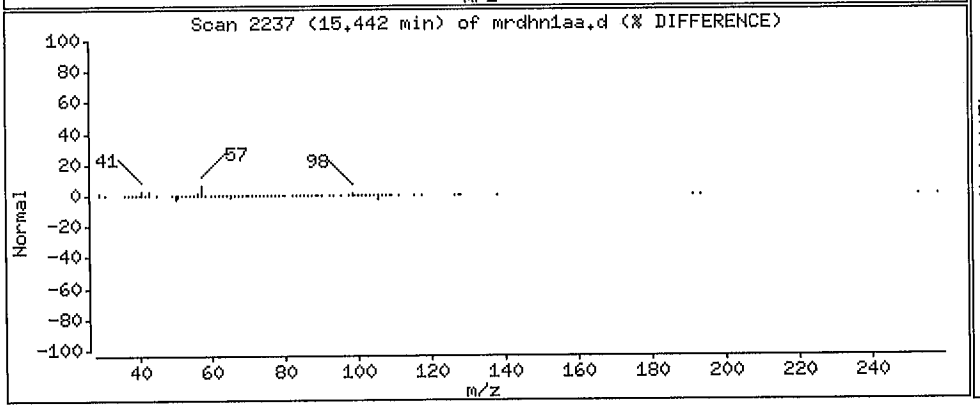












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

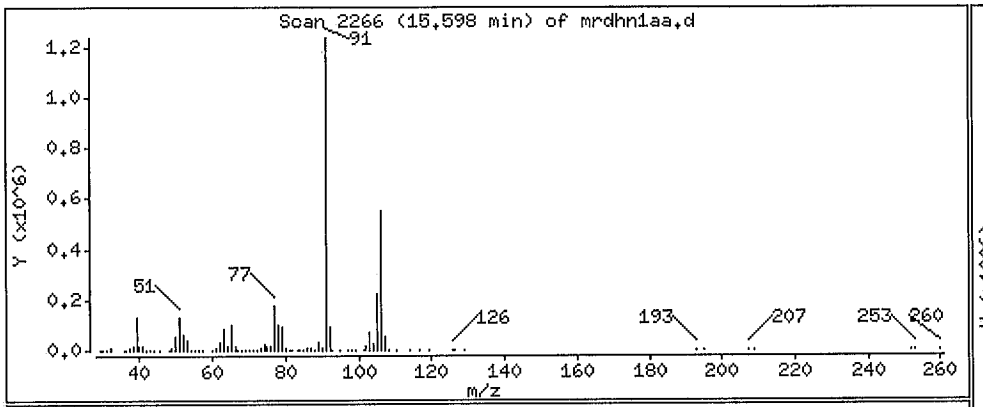
Operator: 7126

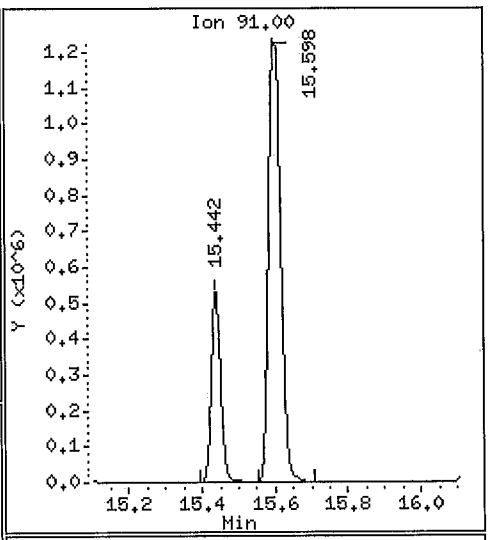
Column phase: Rtx-5

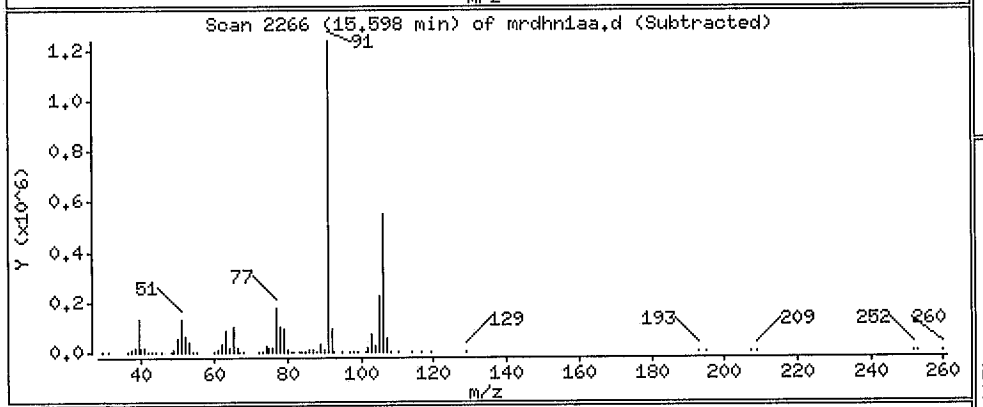
Column diameter: 0.32

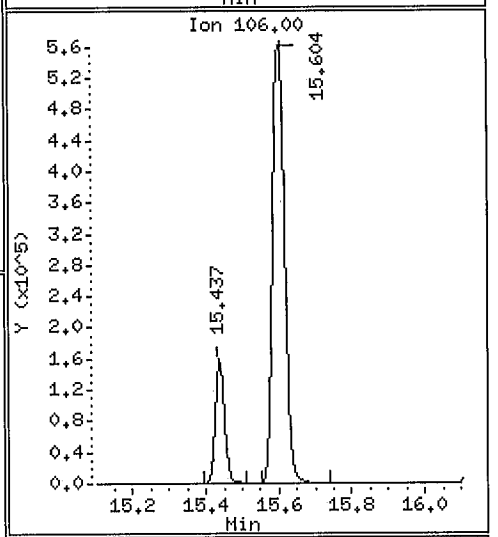
78 m&p-Xylene

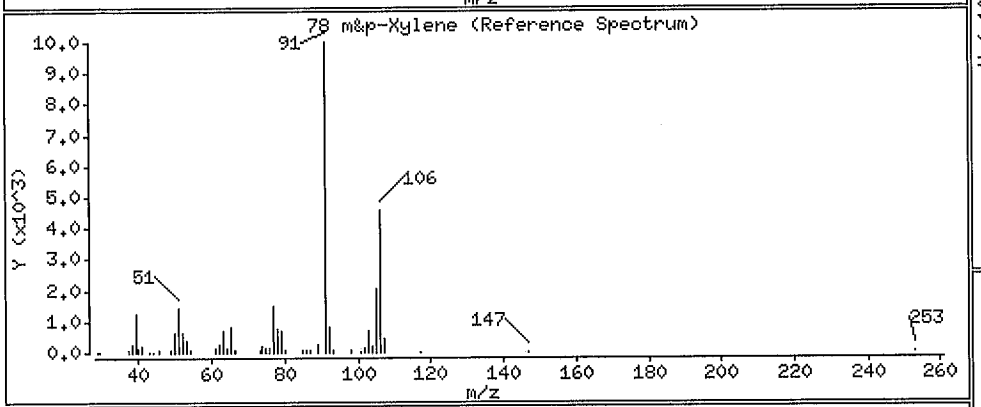
Concentration: 4.778 ppb(v/v)

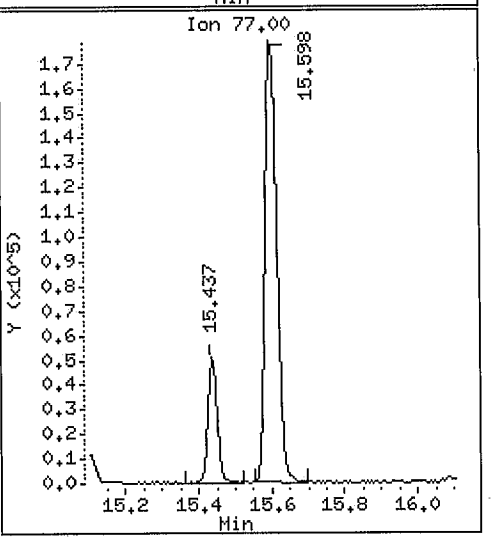


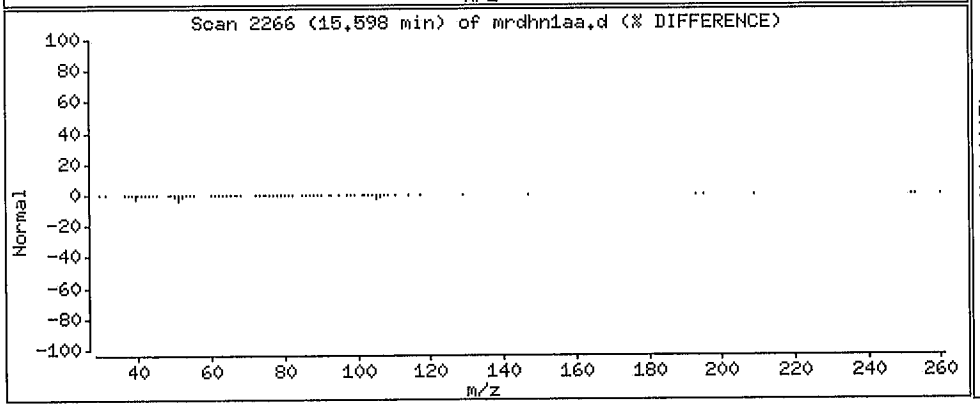












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

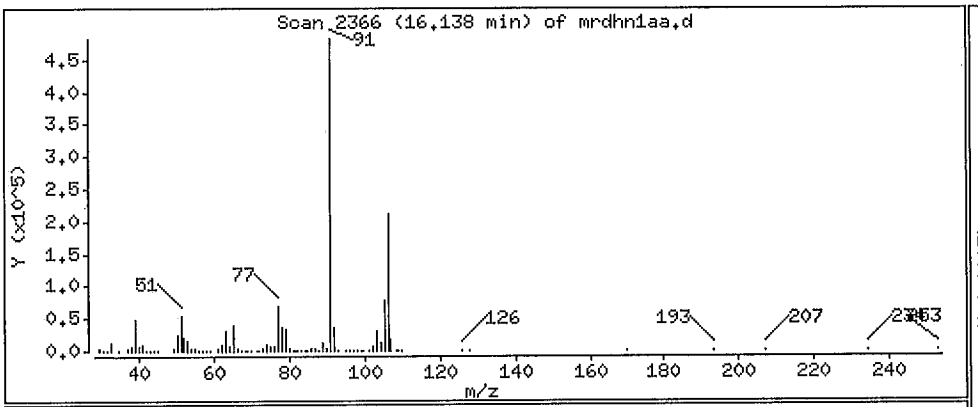
Operator: 7126

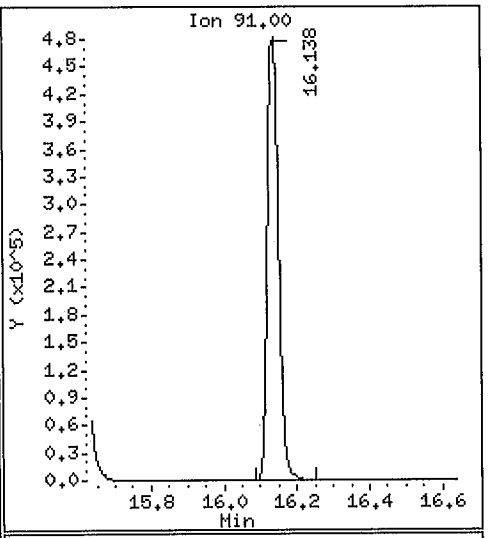
Column phase: Rtx-5

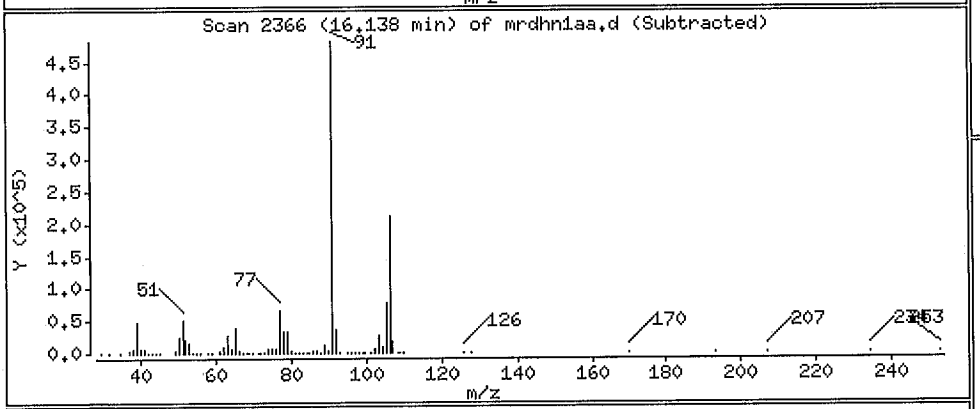
Column diameter: 0.32

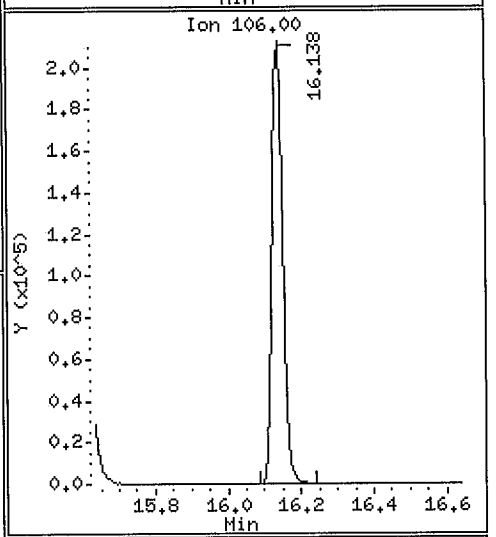
82 o-Xylene

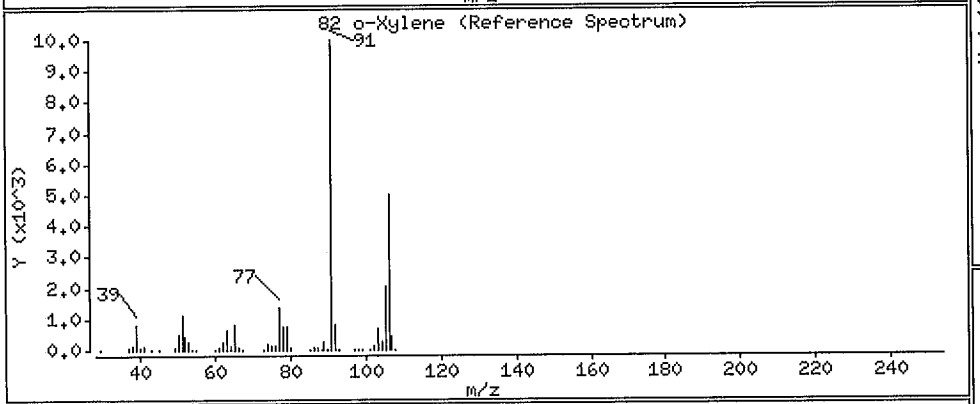
Concentration: 1.635 ppb(v/v)

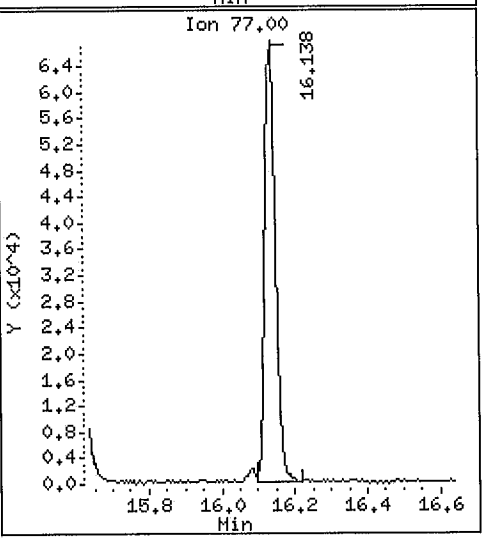


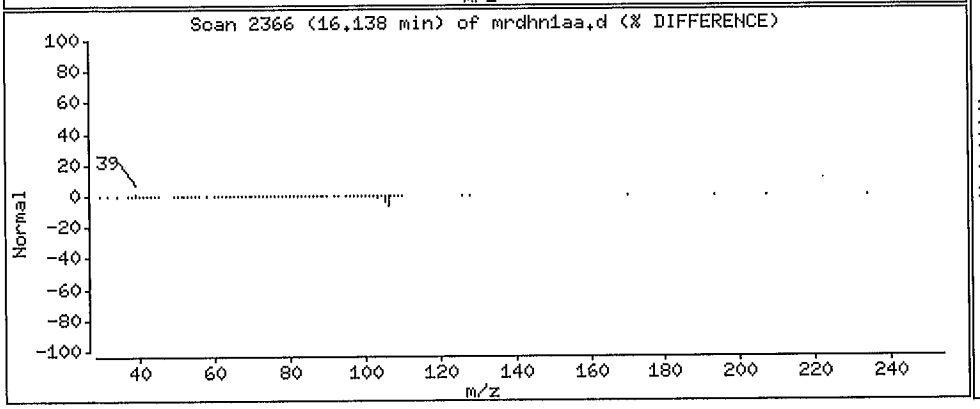












Data File: /var/chem/gcms/ms.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: ms.i

Sample Info: ,,0,,,

Purge Volume: 500.0

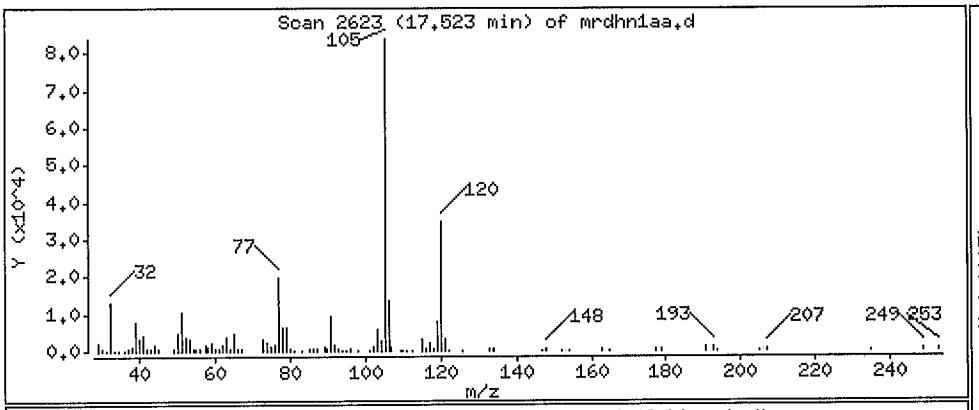
Operator: 7126

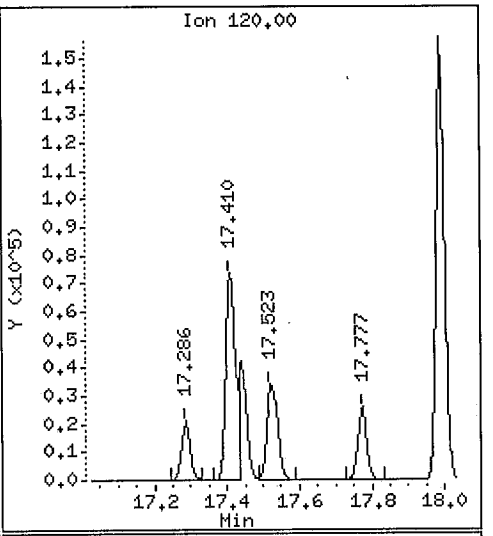
Column phase: Rtx-5

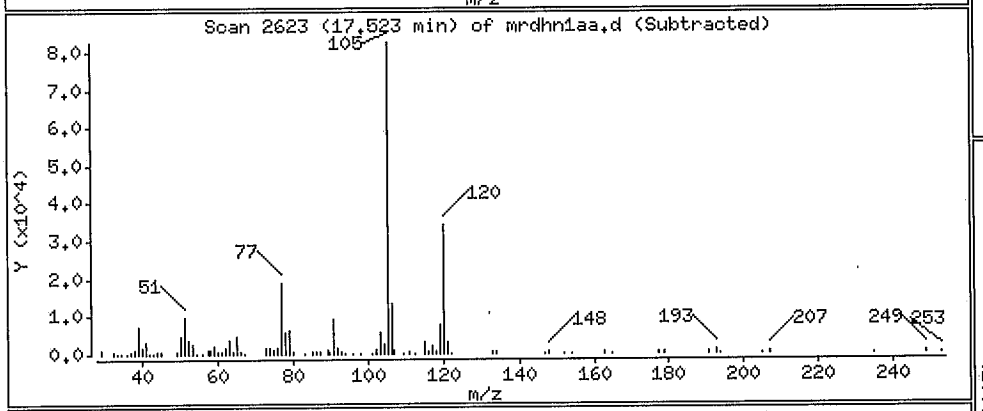
Column diameter: 0.32

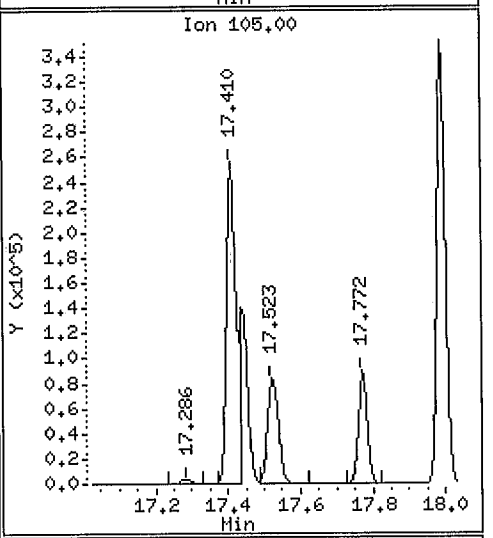
90 1,3,5-Trimethylbenzene

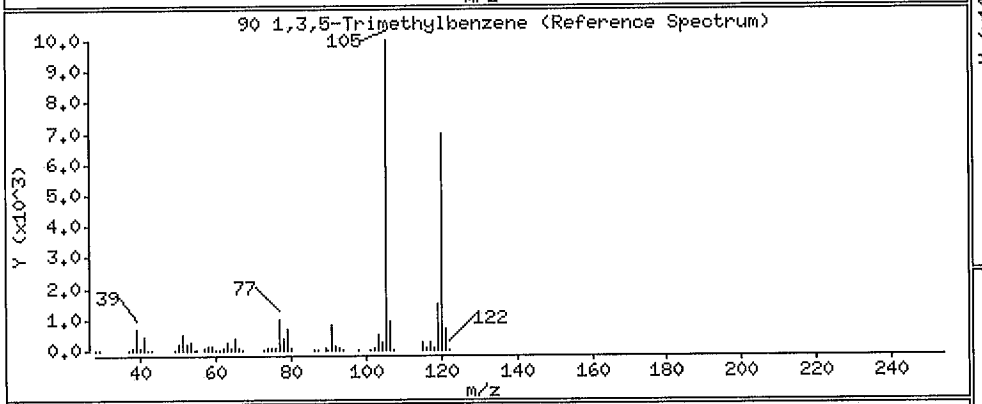
Concentration: 0.1767 ppb(v/v)

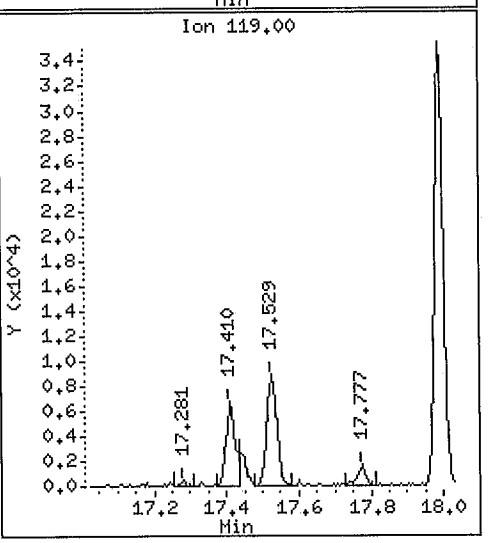


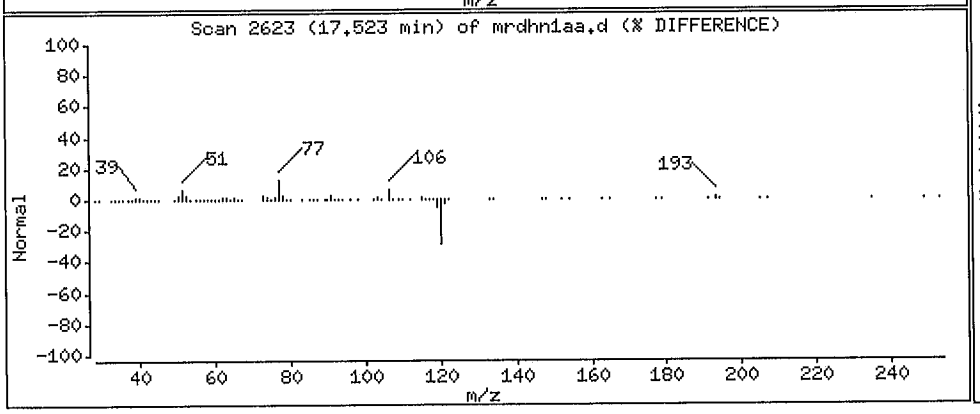












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

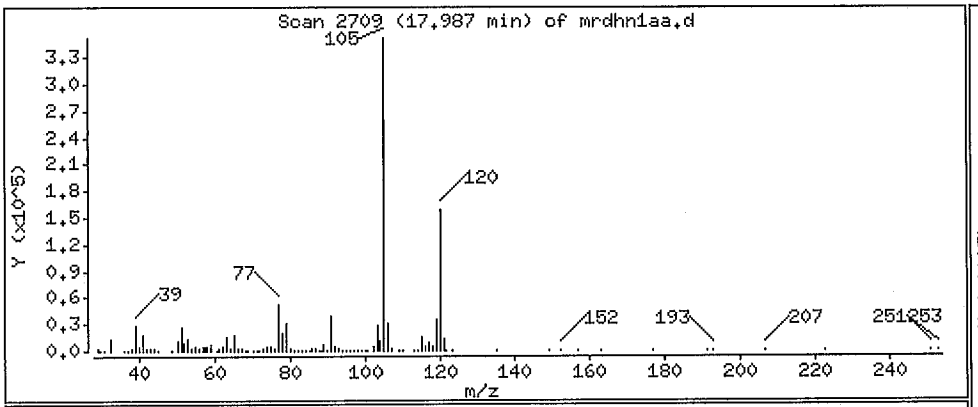
Operator: 7126

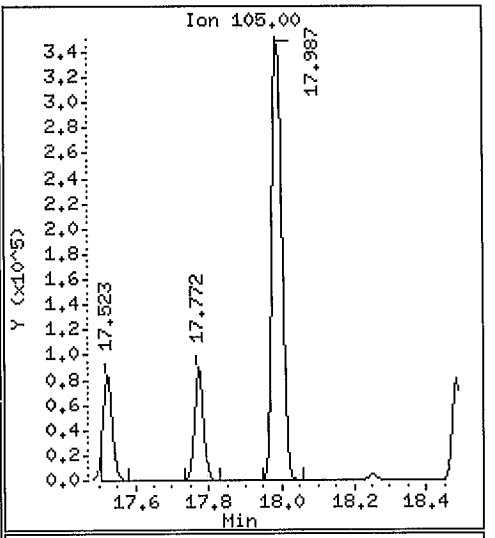
Column phase: Rtx-5

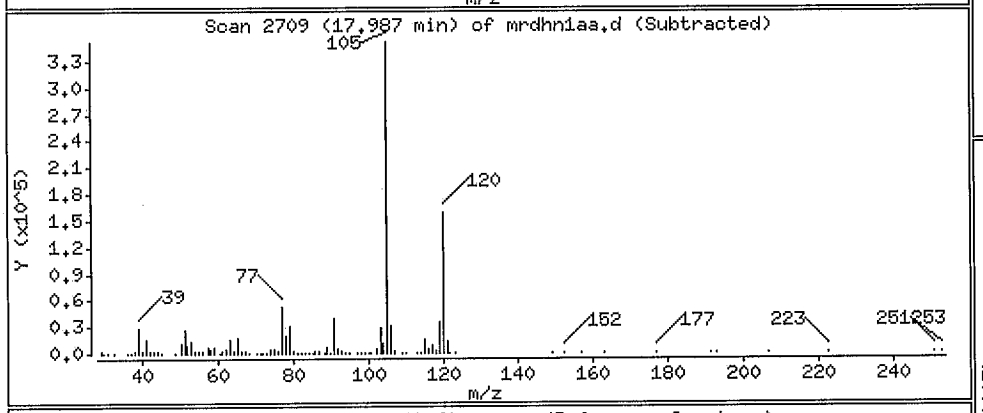
Column diameter: 0.32

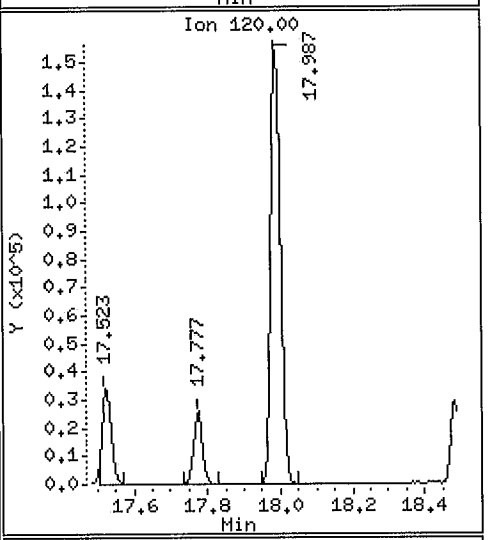
94 1,2,4-Trimethylbenzene

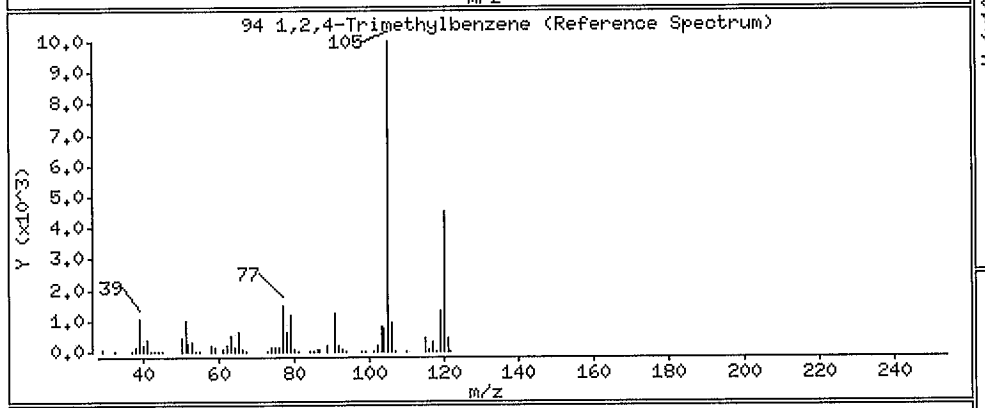
Concentration: 0.9348 ppb(v/v)

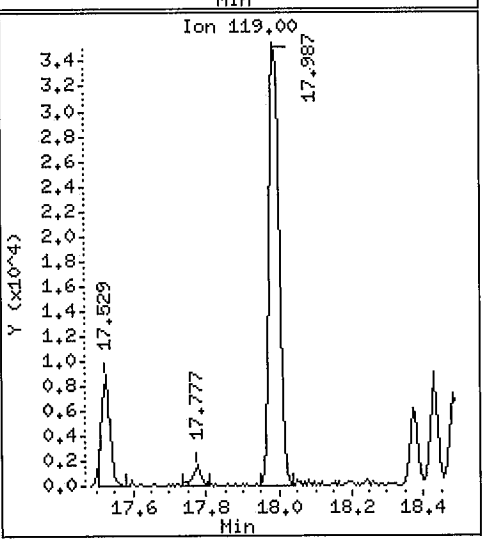


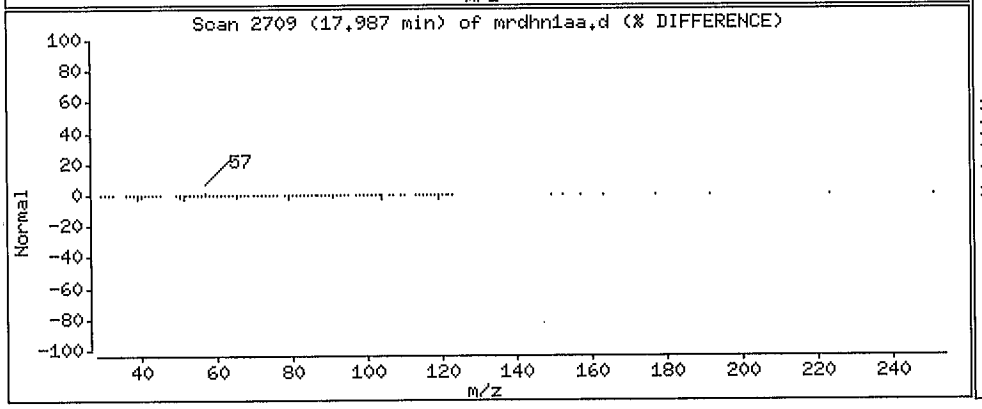












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhn1aa.d

Date : 13-MAR-2012 21:18

Client ID: HOUSE # 2 INDOOR MS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

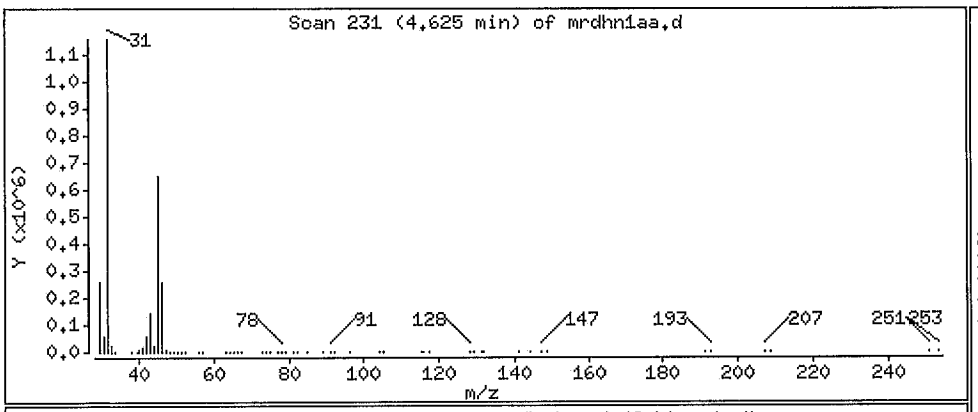
Operator: 7126

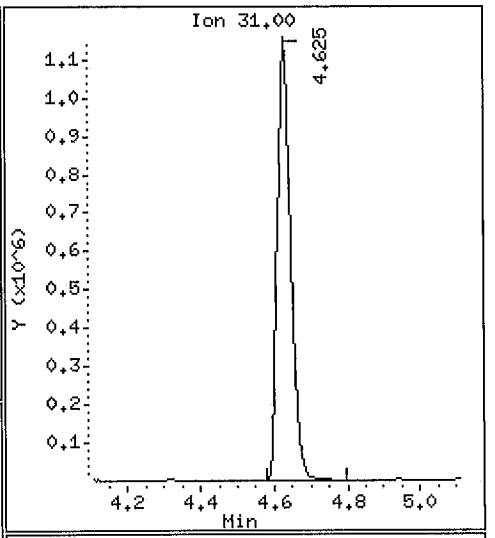
Column phase: Rtx-5

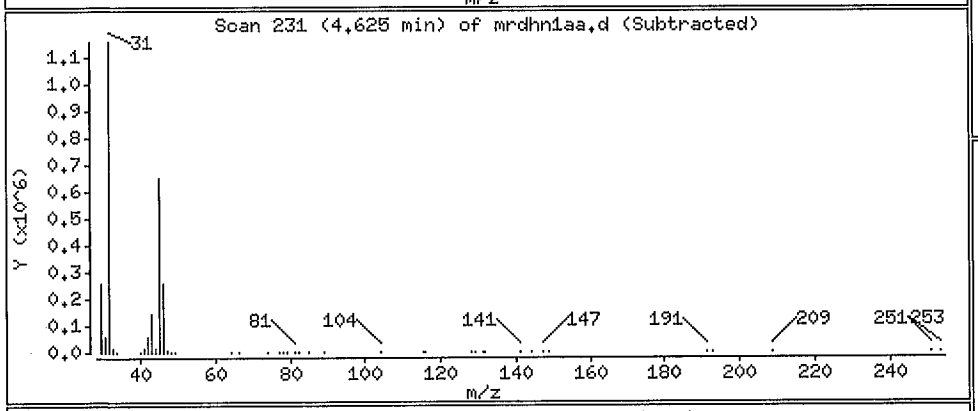
Column diameter: 0.32

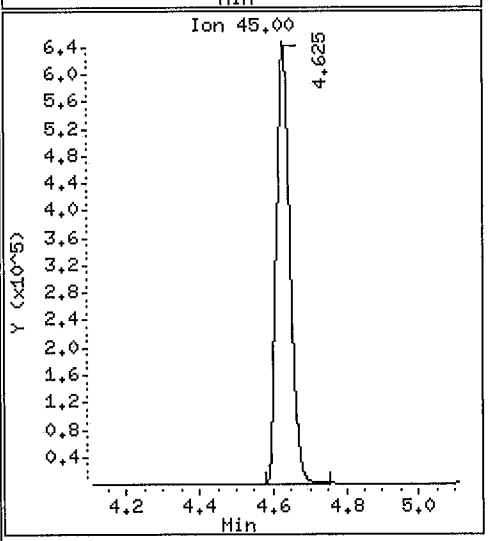
17 ^ ethanol

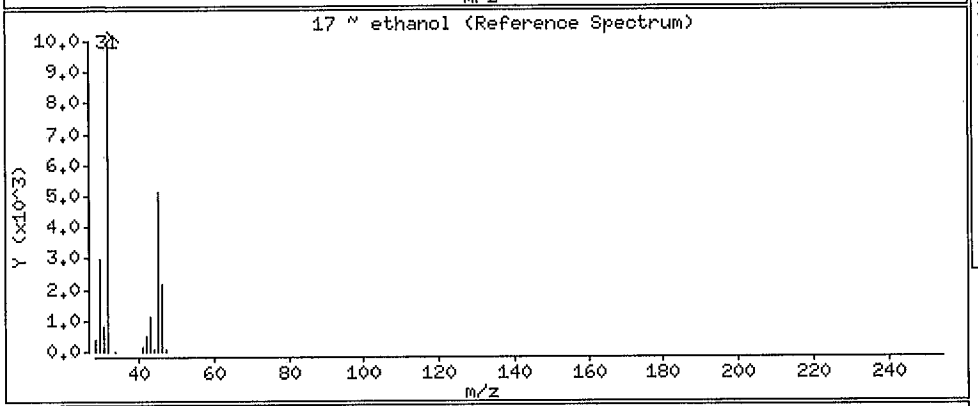
Concentration: 67.28 ppb(v/v)

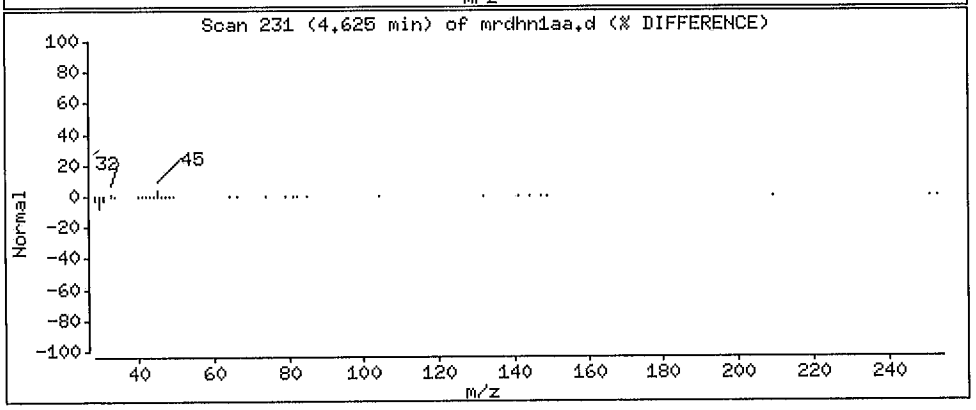












New York State D.E.C.

Client Sample ID: HOUSE # 3 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 008 **Work Order #** MRDHQ1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/13/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	**0.15**	**0.080**	**0.81**	**0.44**
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	**0.47**	**0.080**	**2.3**	**0.39**
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	**1.1**	**0.080**	**4.4**	**0.32**
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	**0.12**	**0.080**	**0.61**	**0.39**
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**0.69**	**0.32**	**2.0**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.60**	**0.080**	**1.9**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.059**	**0.040**	**0.37**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	**0.55**	**0.080**	**2.7**	**0.39**
Cyclohexane	**2.2**	**0.20**	**7.7**	**0.69**
Chloromethane	ND	0.20	ND	0.41
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.62**	**0.080**	**3.1**	**0.40**
Ethanol	**18**	**0.80**	**34**	**1.5**
Ethylbenzene	**0.51**	**0.080**	**2.2**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**0.87**	**0.20**	**3.1**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 3 SS

GC/MS Volatiles

Lot-Sample # H2C130401 - 008 **Work Order #** MRDHQ1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	**0.29**	**0.080**	**1.2**	**0.34**
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**3.3**	**0.080**	**12**	**0.30**
m-Xylene & p-Xylene	**1.6**	**0.080**	**7.0**	**0.35**
o-Xylene	**0.65**	**0.080**	**2.8**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.23**	**0.080**	**1.3**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	116	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d
Report Date: 14-Mar-2012 13:25

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d
Lab Smp Id: MRDHQ1AA Client Smp ID: HOUSE # 3 SS
Inj Date : 13-MAR-2012 23:12
Operator : 7126 Inst ID: mg.i
Smp Info : ,,0,,,
Misc Info : G031312,TO15,nysdec.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 14-Mar-2012 13:23 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

3/16/12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.168	8.168	(1.000)	447376	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.281	10.281	(1.000)	2223885	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.102	15.102	(1.000)	2148560	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.774	16.779	(1.111)	1812971	4.65991	4.660
7 Dichlorodifluoromethane	85	3.730	3.724	(0.457)	268097	0.62460	0.6246
20 Trichlorofluoromethane	101	4.943	4.943	(0.605)	100771	0.23391	0.2339
28 tert-butanol	59	5.811	5.736	(0.711)	4403	0.02500	0.02500
40 Hexane	56	7.423	7.418	(0.909)	113190	0.87385	0.8738
39 2-Butanone	72	7.564	7.553	(0.926)	41752	0.68882	0.6888
43 Chloroform	83	8.178	8.178	(1.001)	178886	0.55107	0.5511
45 1,1,1-Trichloroethane	97	9.117	9.111	(1.116)	52974	0.14826	0.1482
46 1,2-Dichloroethane	62	9.246	9.251	(0.899)	237257	1.07936	1.079
49 Cyclohexane	69	9.640	9.645	(0.938)	177347	2.23760	2.238
48 Benzene	78	9.694	9.699	(0.943)	249711	0.59734	0.5973
50 Carbon Tetrachloride	117	9.710	9.710	(0.944)	21288	0.05911	0.05911
65 Toluene	91	13.080	13.085	(0.866)	1723502	3.29276	3.293

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d
Report Date: 14-Mar-2012 13:25

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
76 Ethylbenzene	91	15.436	15.442	(1.022)	338314	0.51231	0.5123
78 m&p-Xylene	91	15.598	15.604	(1.033)	822535	1.60082	1.601
81 Styrene	104	16.089	16.089	(1.065)	110446	0.29089	0.2909
82 o-Xylene	91	16.137	16.138	(1.069)	347500	0.64861	0.6486
90 1,3,5-Trimethylbenzene	120	17.529	17.529	(1.161)	41746	0.12335	0.1233
94 1,2,4-Trimethylbenzene	105	17.987	17.987	(1.191)	279757	0.46661	0.4666
17 ~ ethanol	31	4.619	4.609	(0.566)	752135	18.1129	18.11

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d
Report Date: 14-Mar-2012 13:25

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: mrdhq1aa.d
Lab Smp Id: MRDHQ1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: HOUSE # 3 SS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	447376	-20.28
2 1,4-Difluorobenze	2909107	1730919	4087295	2223885	-23.55
3 Chlorobenzene-d5	2830968	1684426	3977510	2148560	-24.11

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.17	0.00
2 1,4-Difluorobenze	10.28	9.95	10.61	10.28	0.00
3 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d
Report Date: 14-Mar-2012 13:25

TestAmerica Knoxville

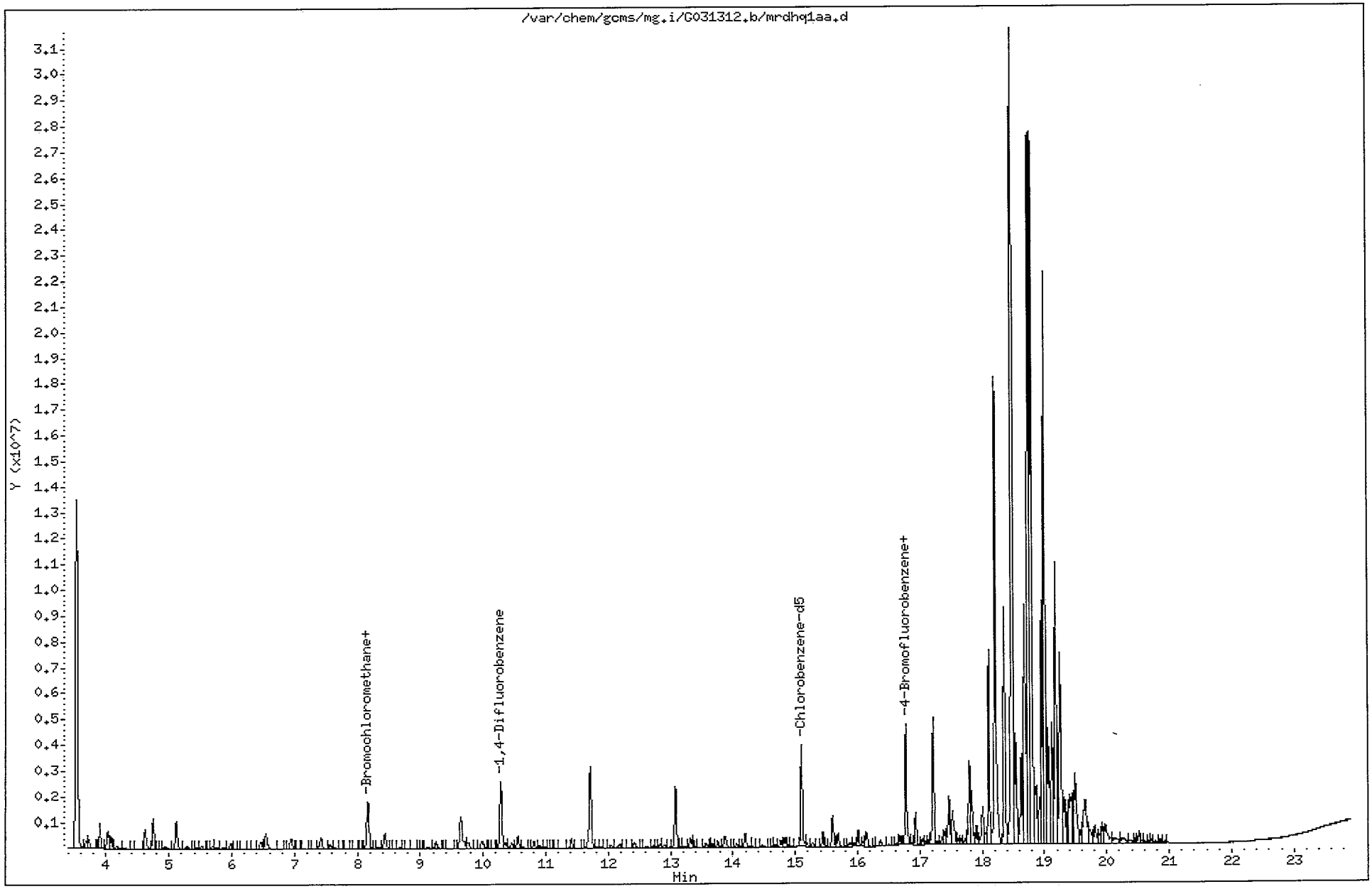
RECOVERY REPORT

Client Name: New York State D.E.C10-MAR-2012 00:00 Client SDG: H2C130401
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MRDHQ1AA Client Smp ID: HOUSE # 3 SS
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.660	116.50	70-130

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d
Date : 13-MAR-2012 23:12
Client ID: HOUSE # 3 SS
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

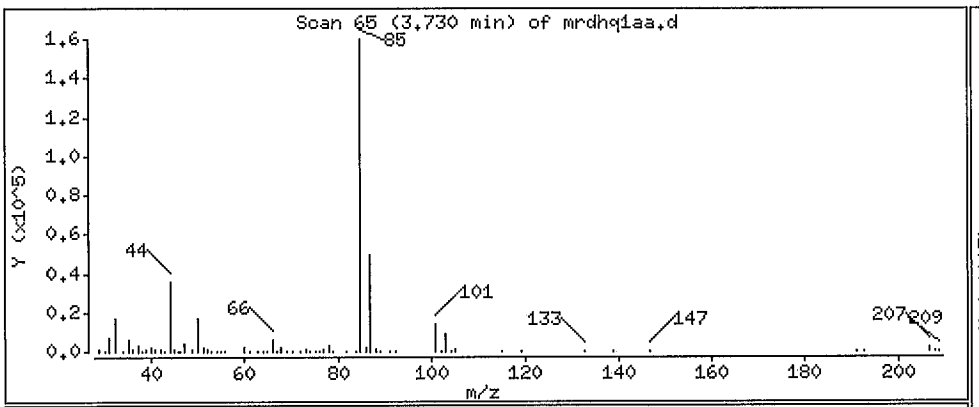
Operator: 7126

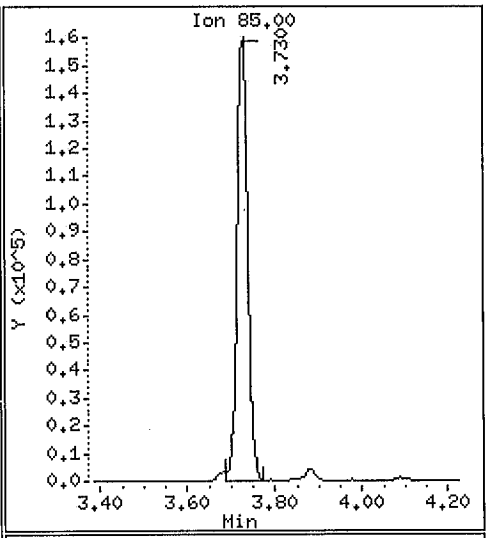
Column phase: Rtx-5

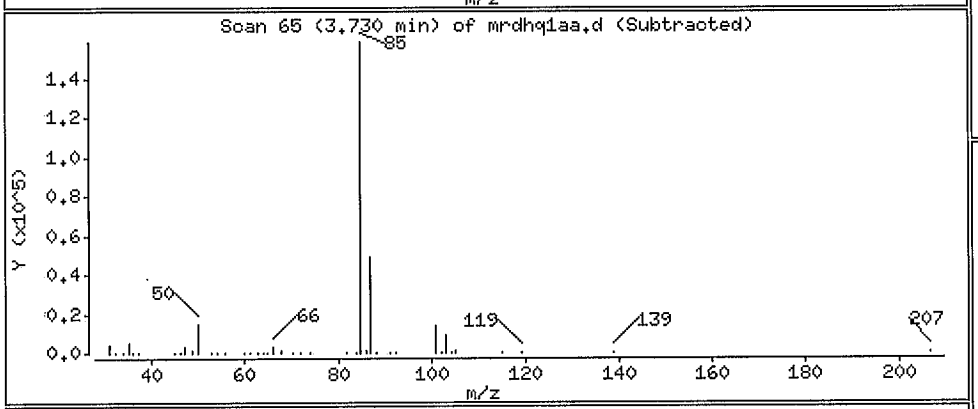
Column diameter: 0.32

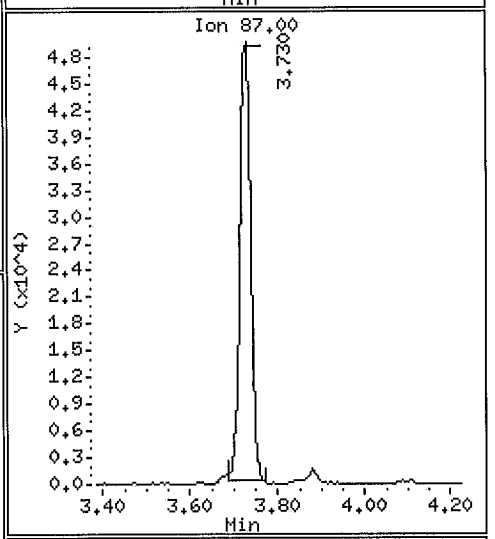
7 Dichlorodifluoromethane

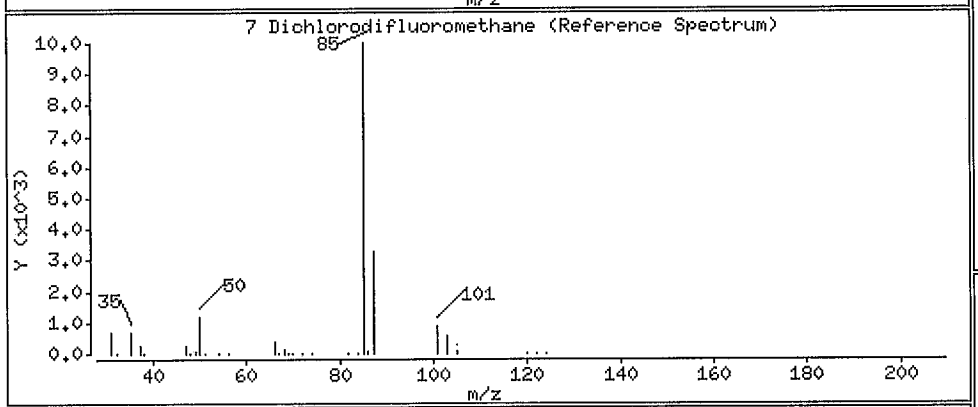
Concentration: 0.6246 ppb(v/v)

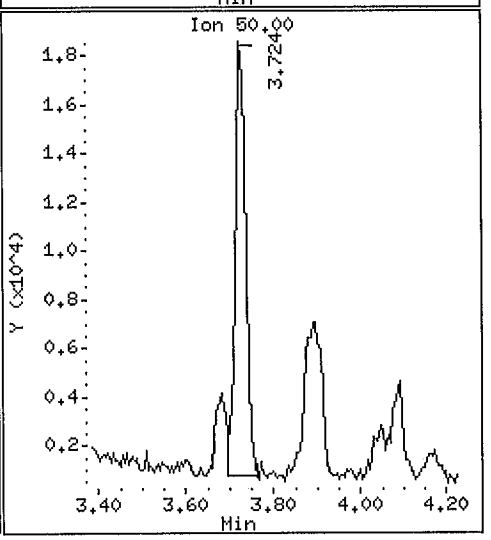


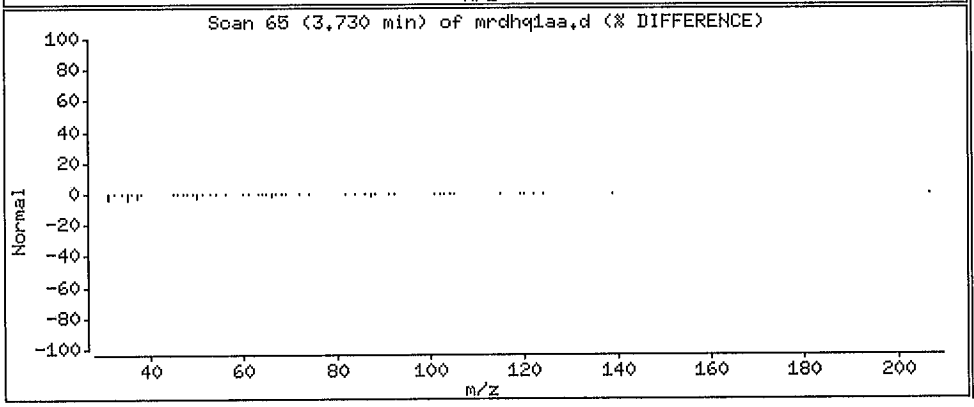












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

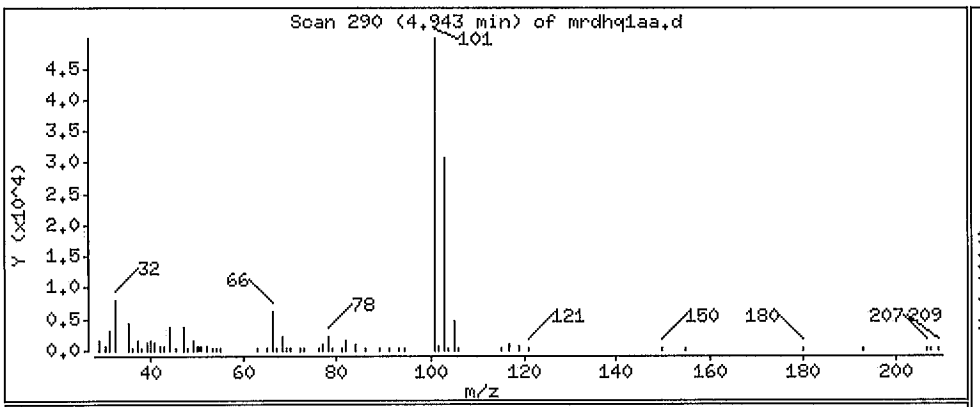
Operator: 7126

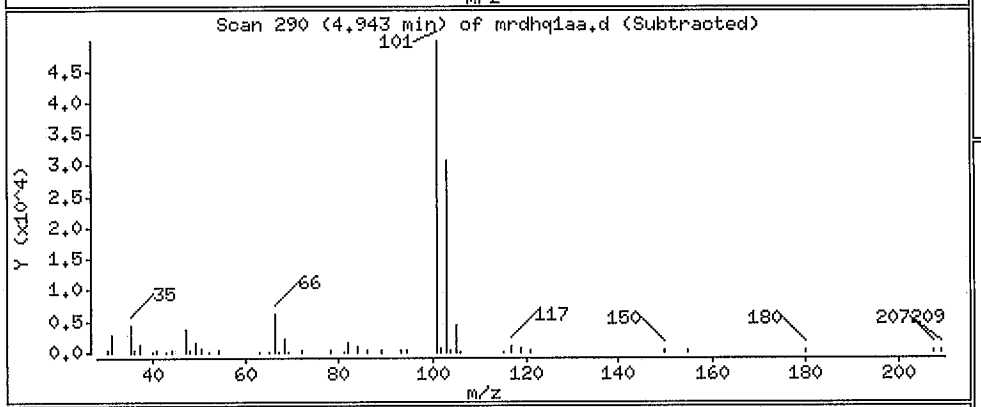
Column phase: Rtx-5

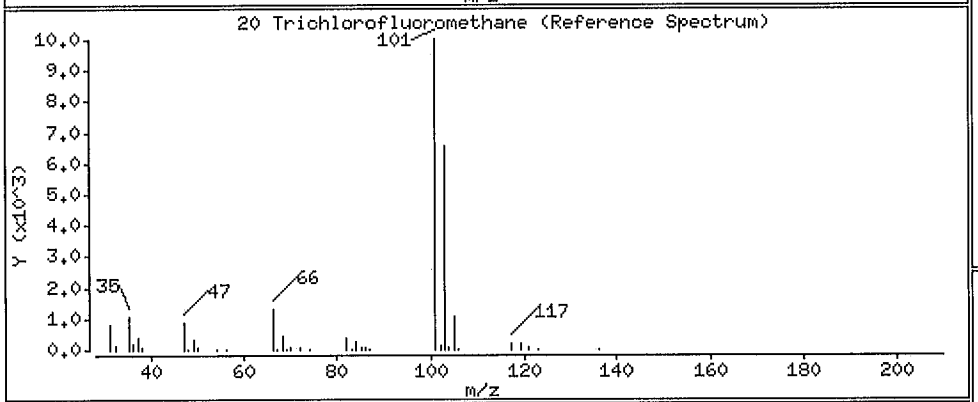
Column diameter: 0.32

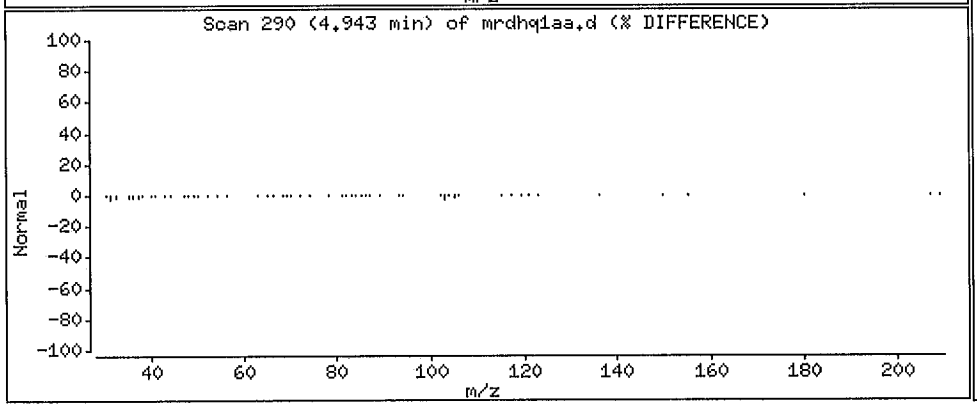
20 Trichlorofluoromethane

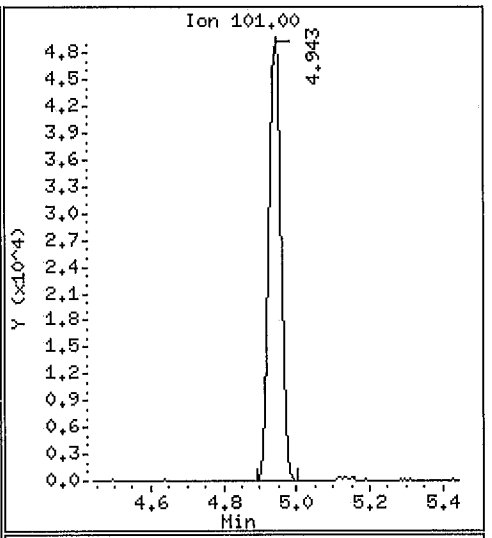
Concentration: 0.2339 ppb(v/v)

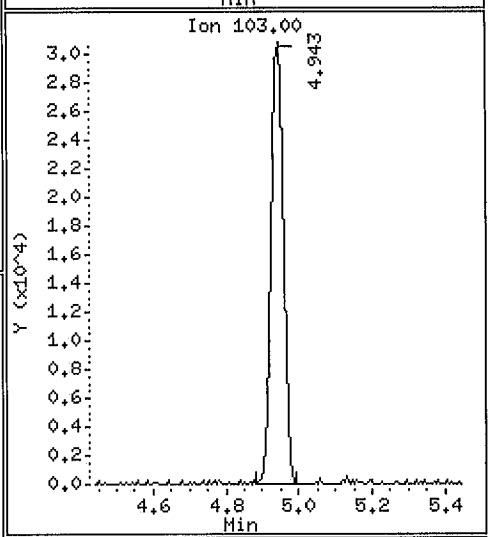


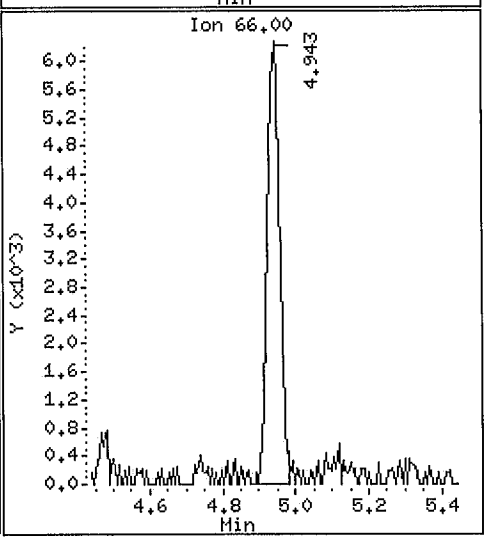












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

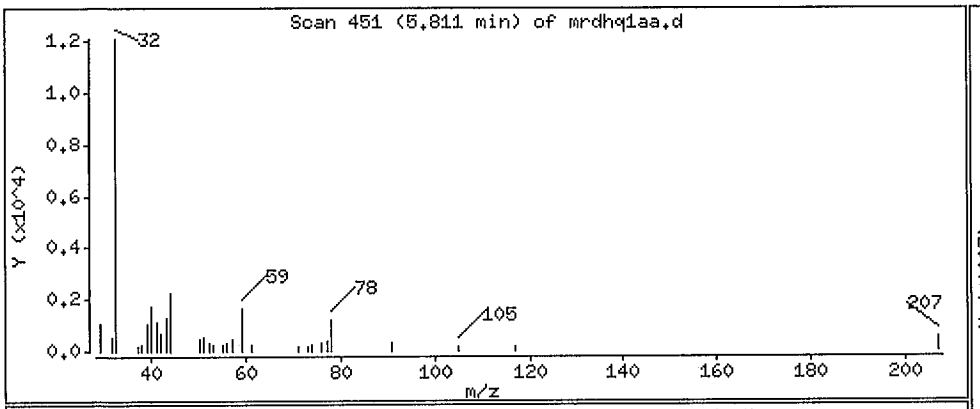
Operator: 7126

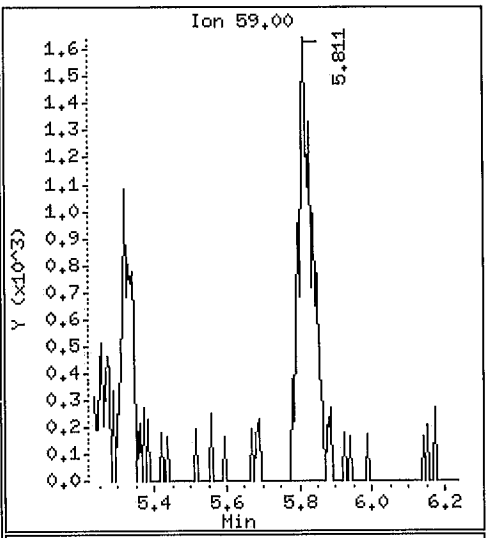
Column phase: Rtx-5

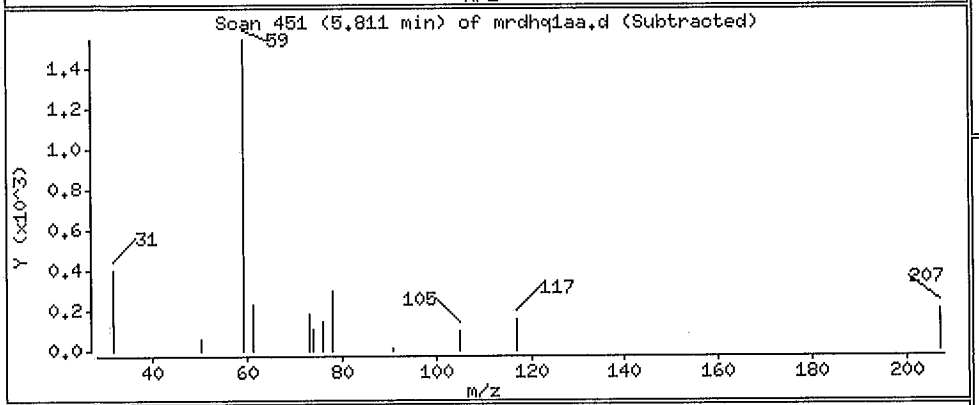
Column diameter: 0.32

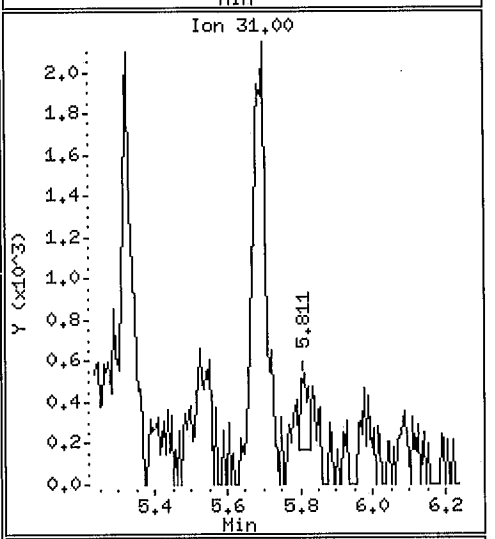
28 tert-butanol

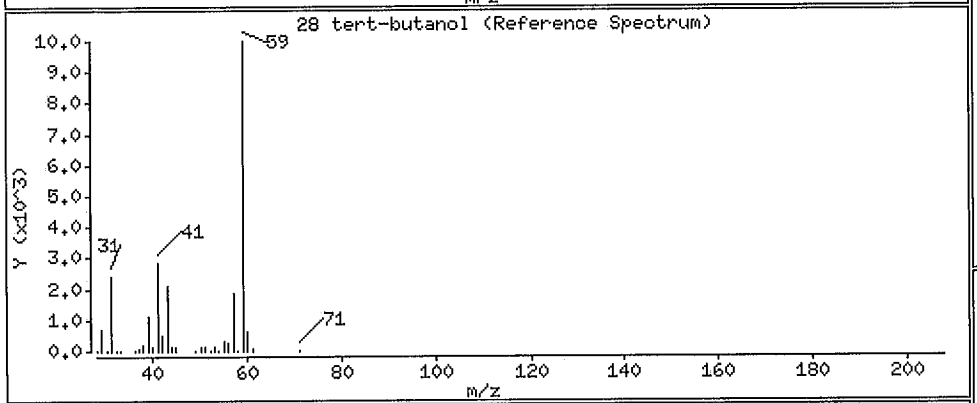
Concentration: 0.02500 ppb(v/v)

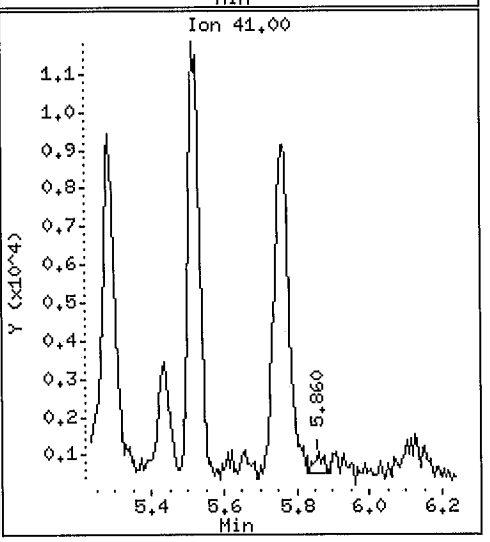


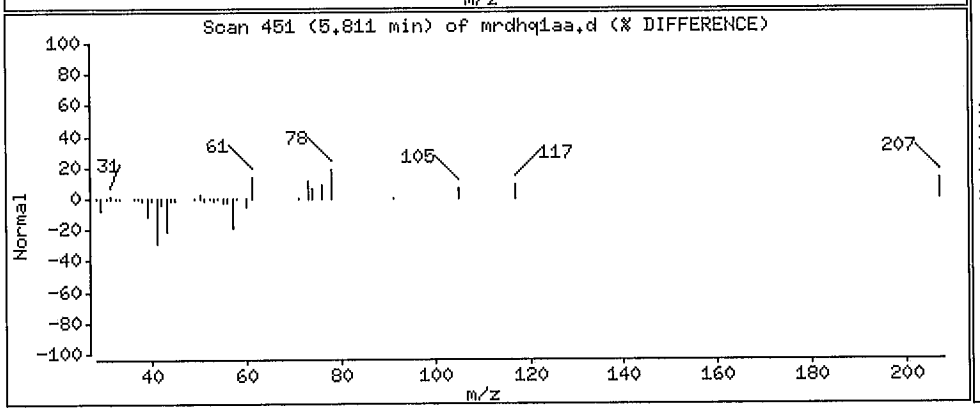












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

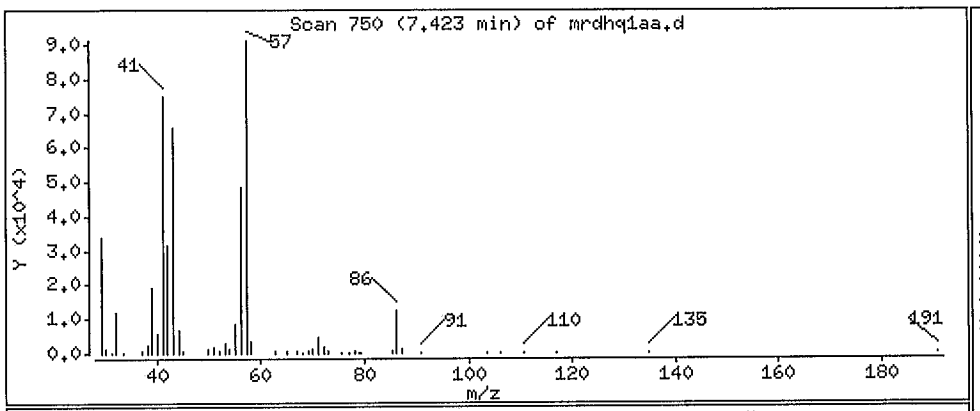
Operator: 7126

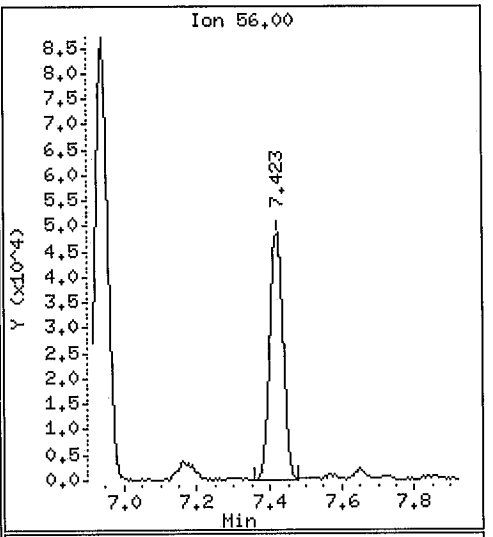
Column phase: Rtx-5

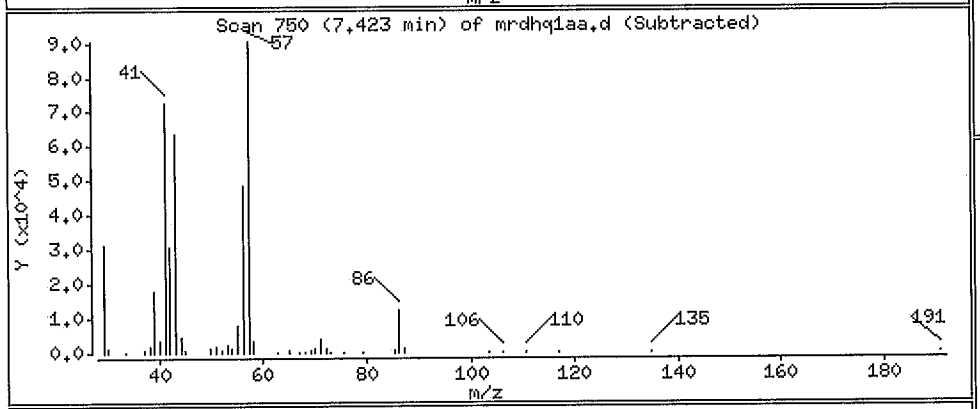
Column diameter: 0.32

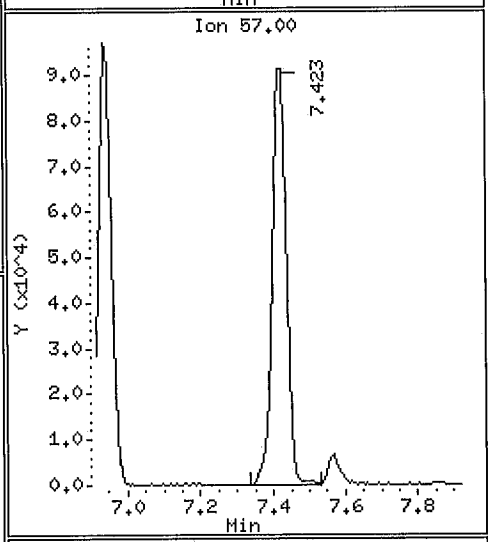
40 Hexane

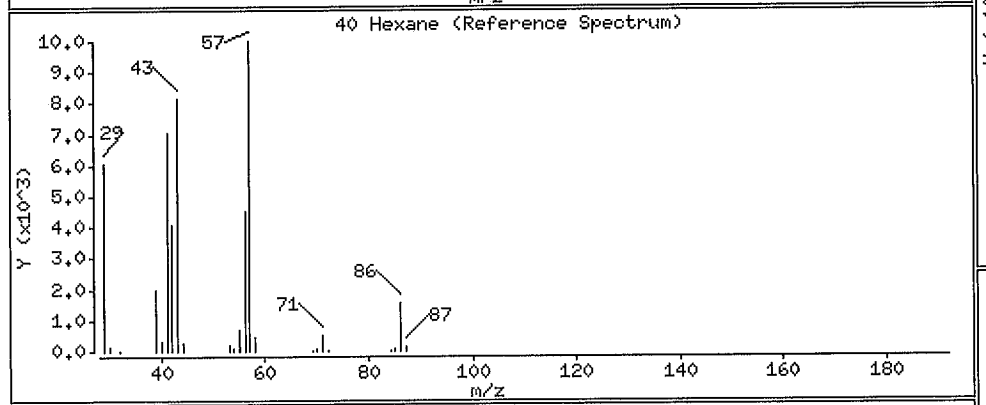
Concentration: 0.8738 ppb(v/v)

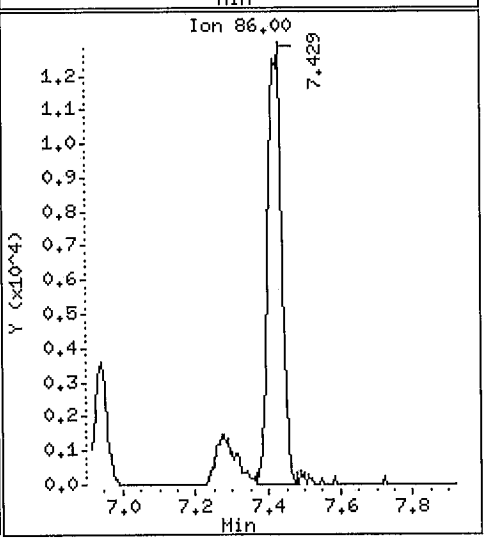


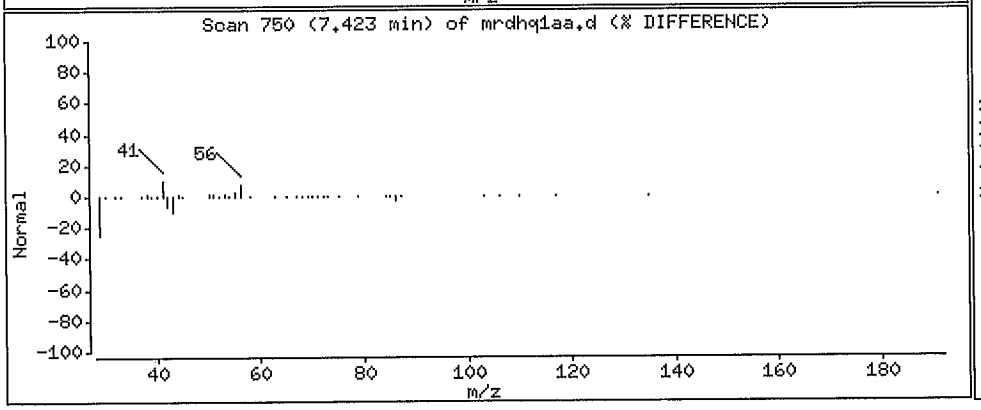












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

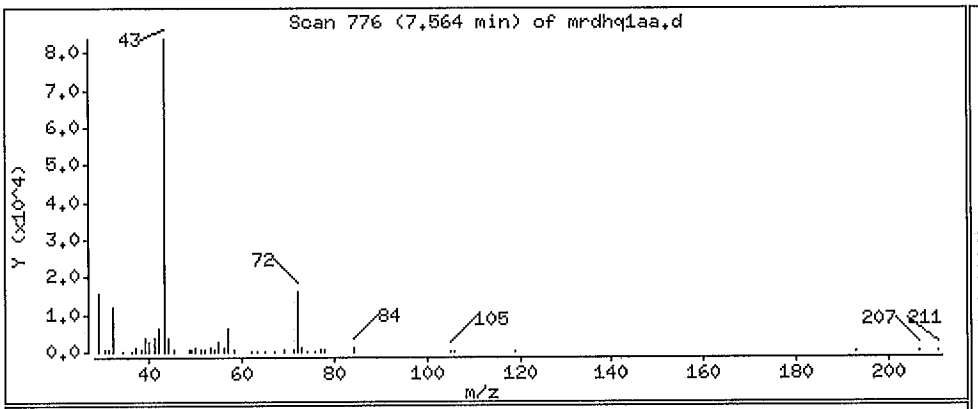
Operator: 7126

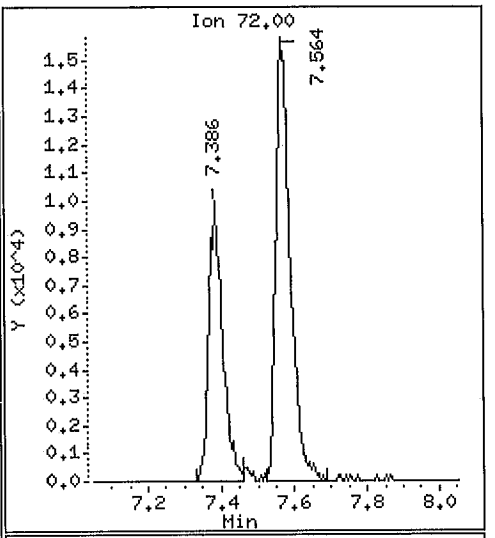
Column phase: Rtx-5

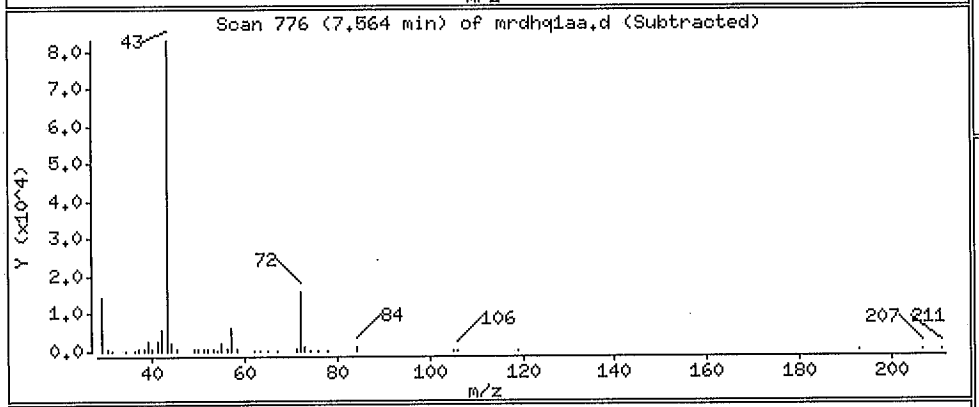
Column diameter: 0.32

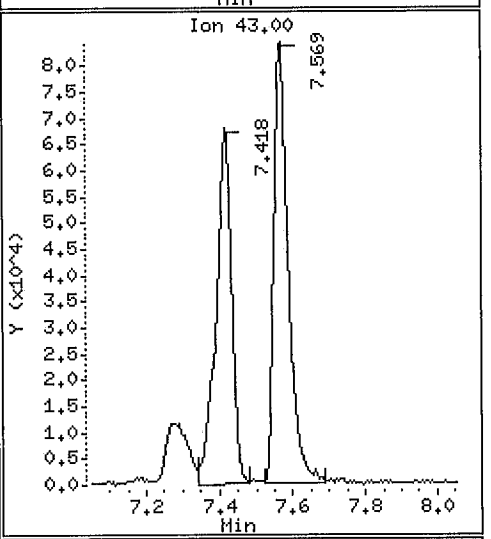
39 2-Butanone

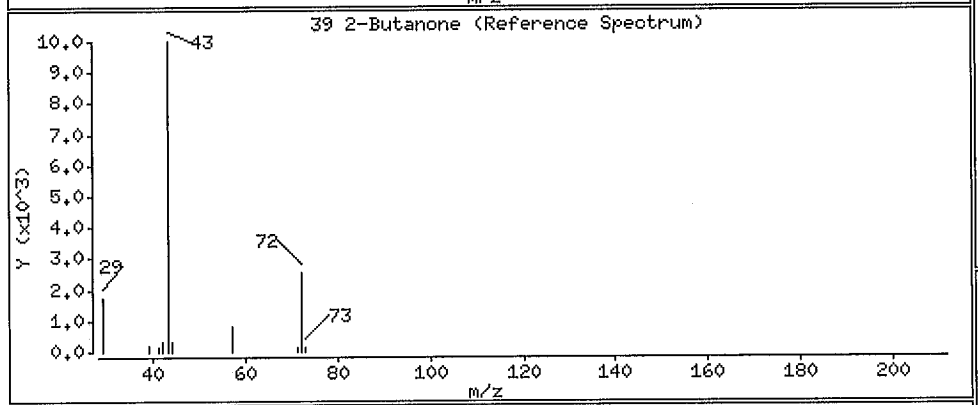
Concentration: 0.6888 ppb(v/v)

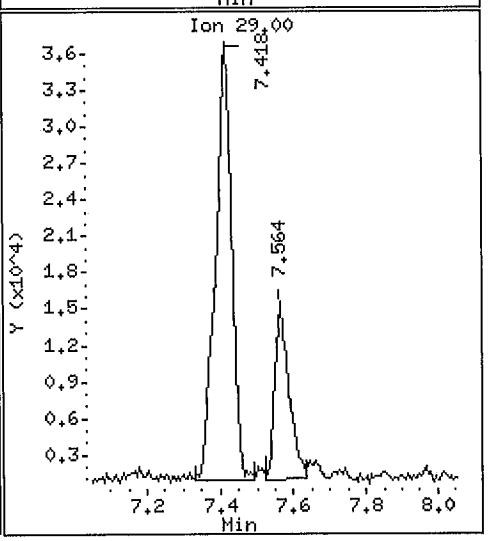


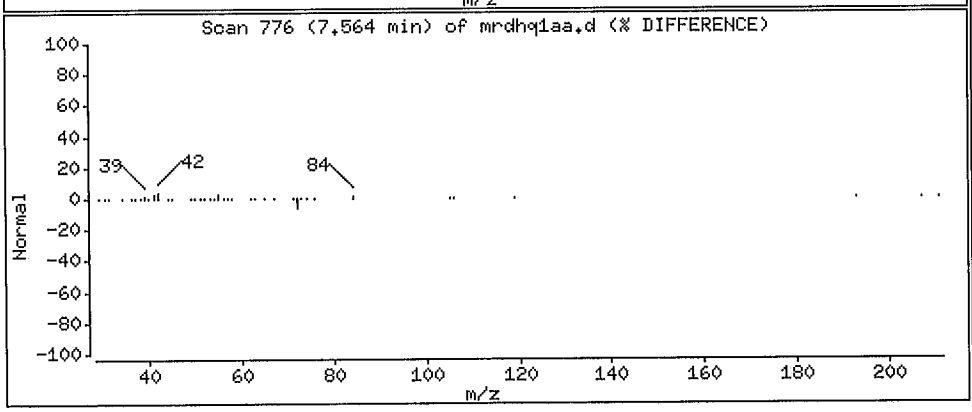












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

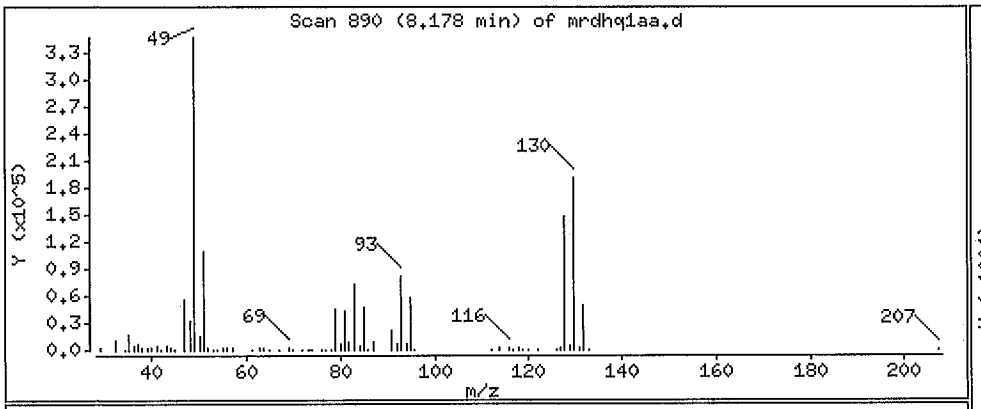
Operator: 7126

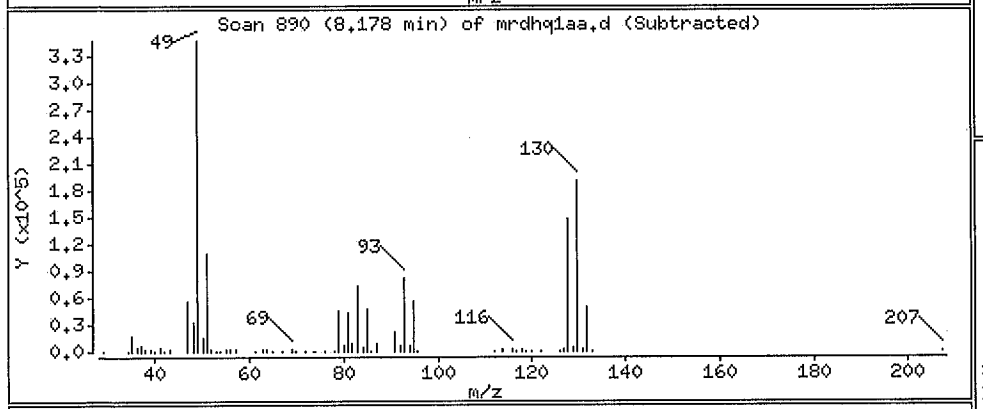
Column phase: Rtx-5

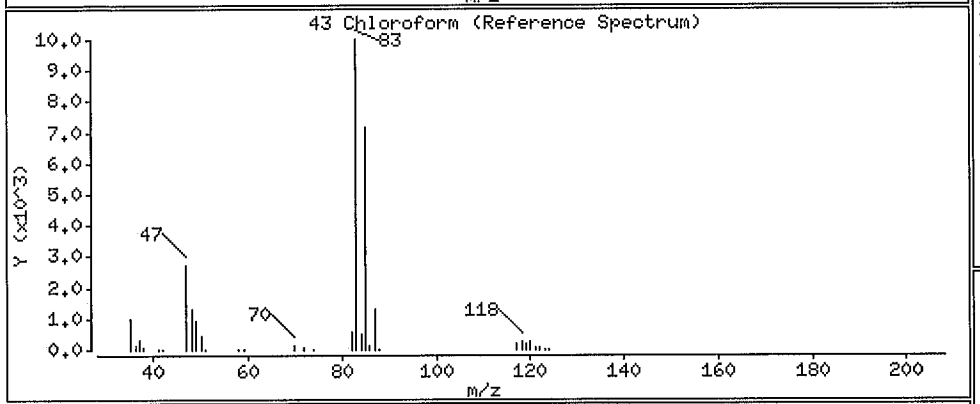
Column diameter: 0.32

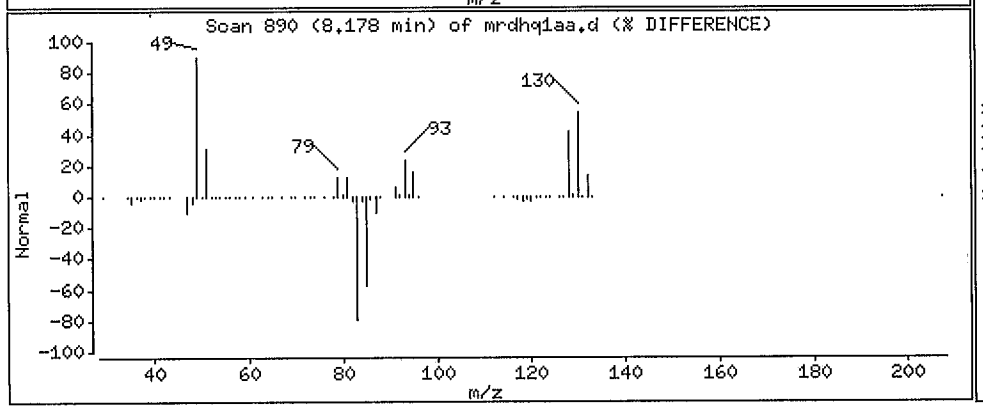
43 Chloroform

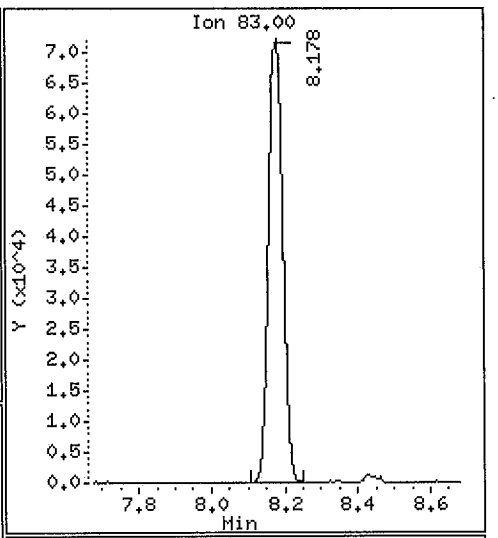
Concentration: 0.5511 ppb(v/v)

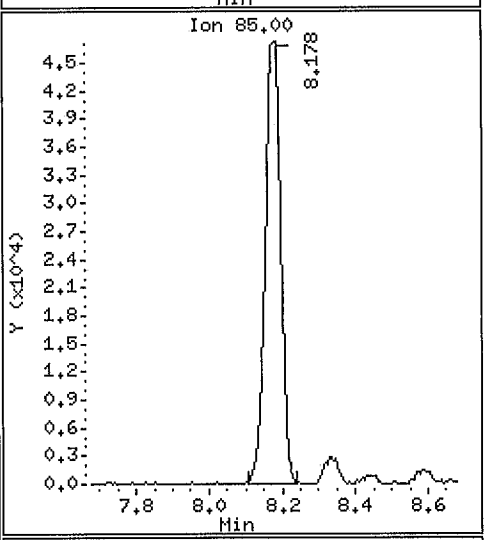


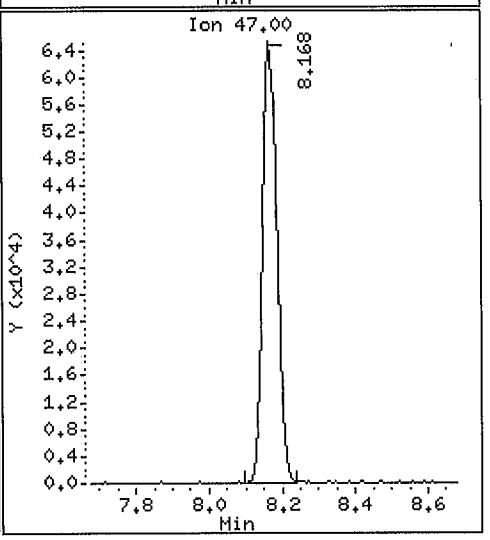












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

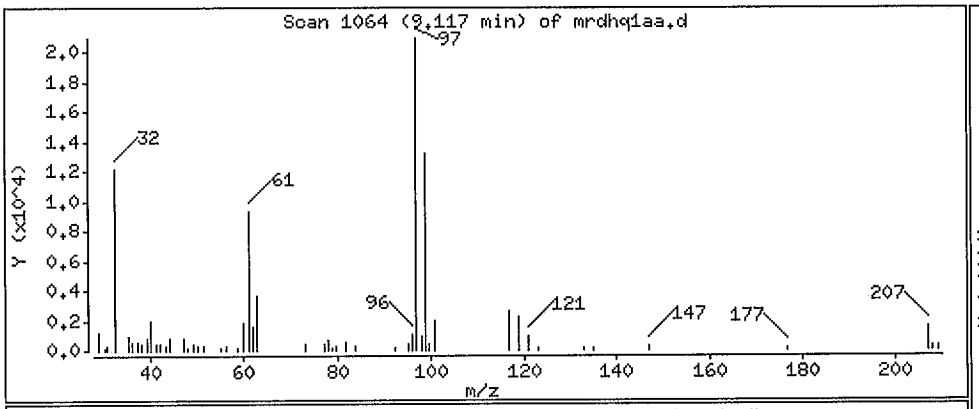
Operator: 7126

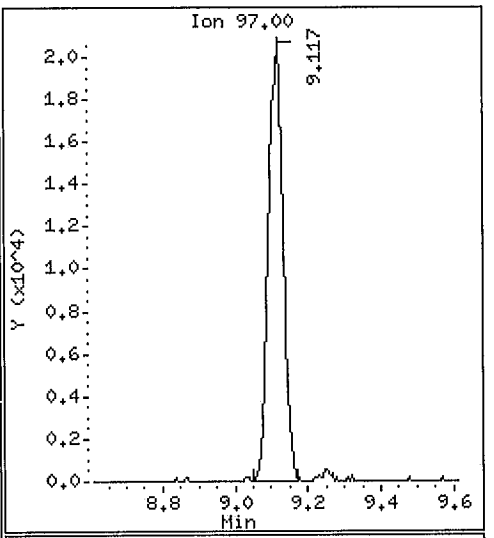
Column phase: Rtx-5

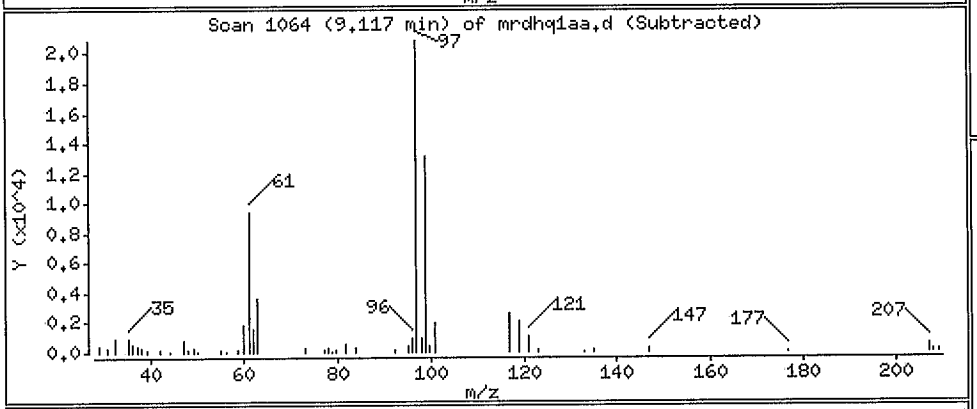
Column diameter: 0.32

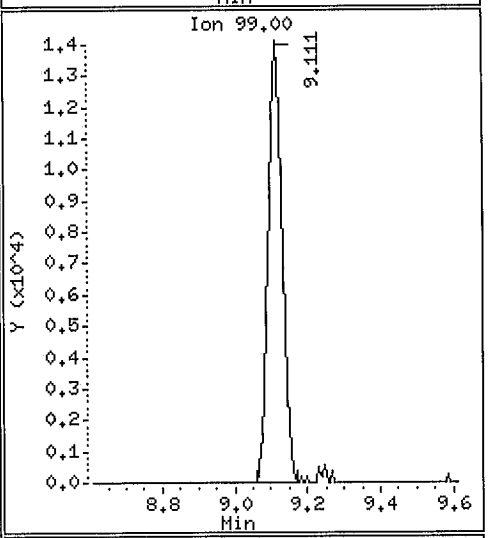
45 1,1,1-Trichloroethane

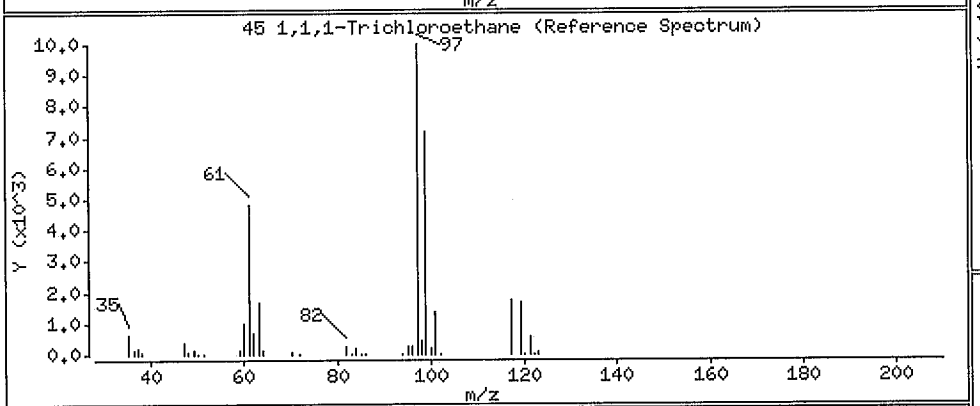
Concentration: 0.1482 ppb(v/v)

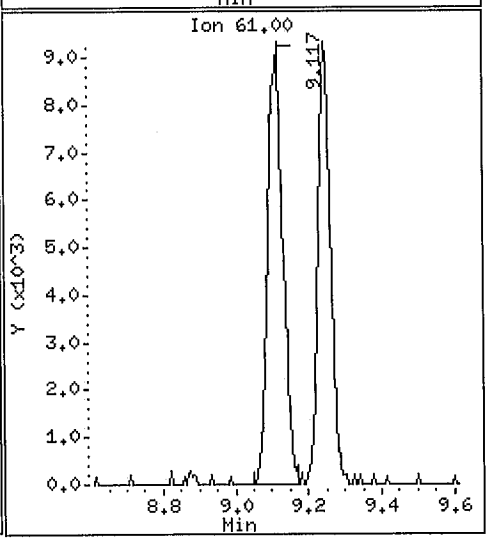


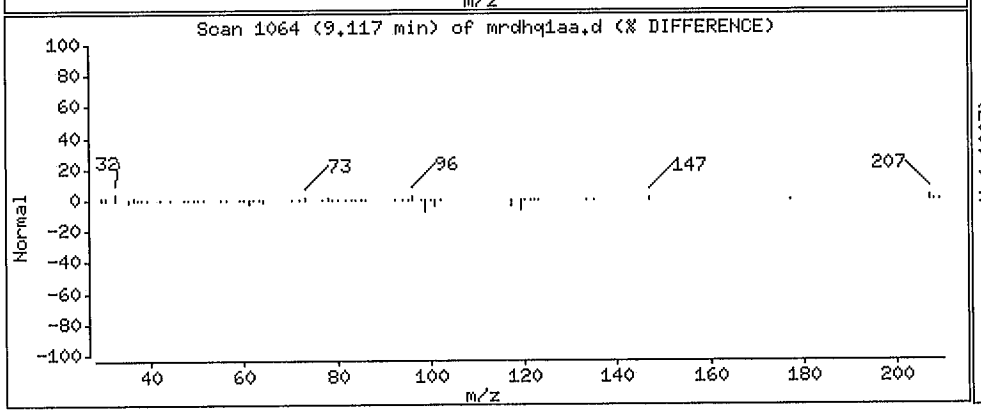












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

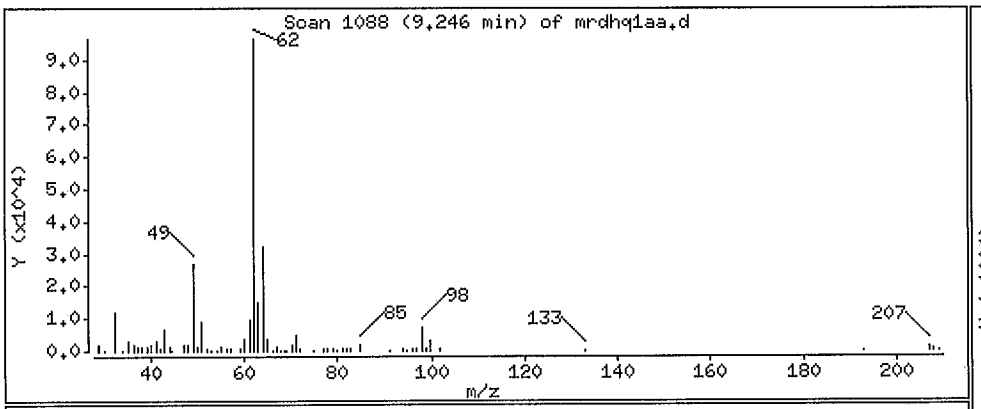
Operator: 7126

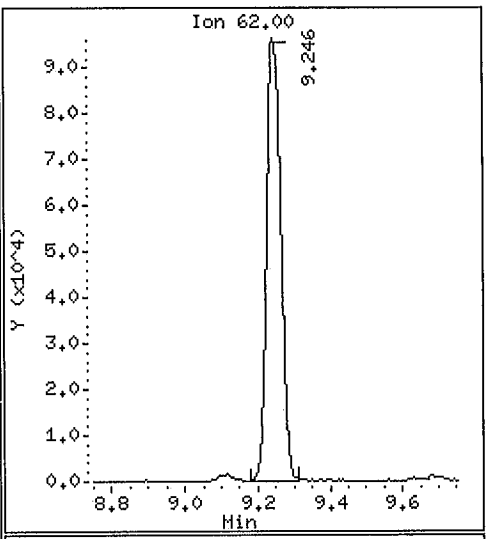
Column phase: Rtx-5

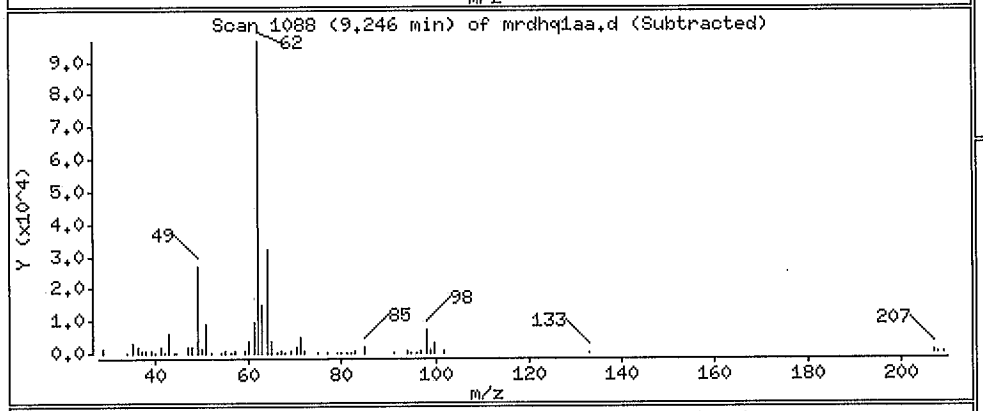
Column diameter: 0.32

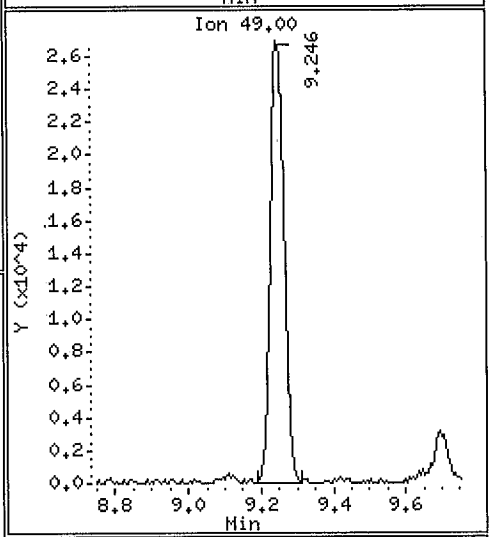
46 1,2-Dichloroethane

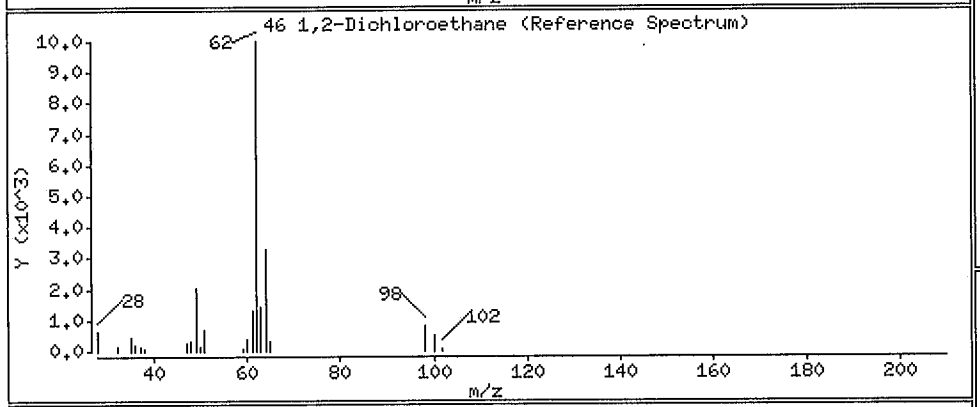
Concentration: 1.079 ppb(v/v)

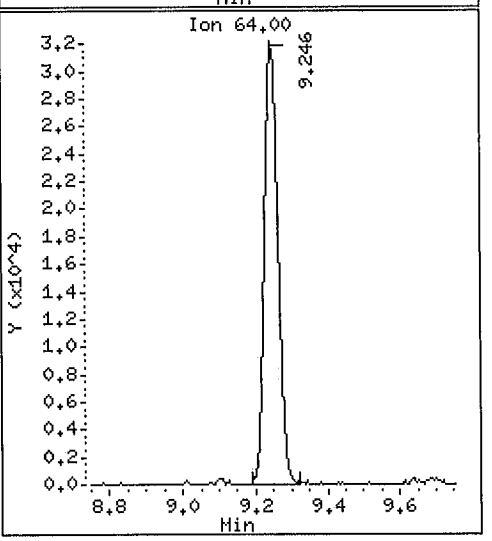


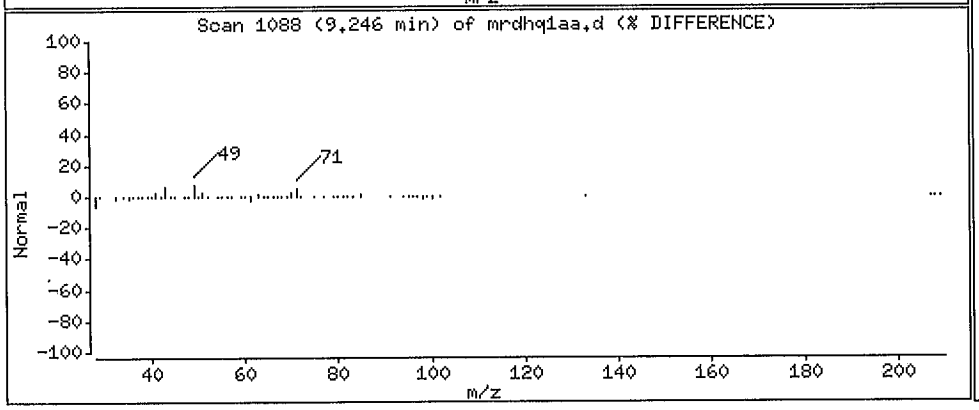












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

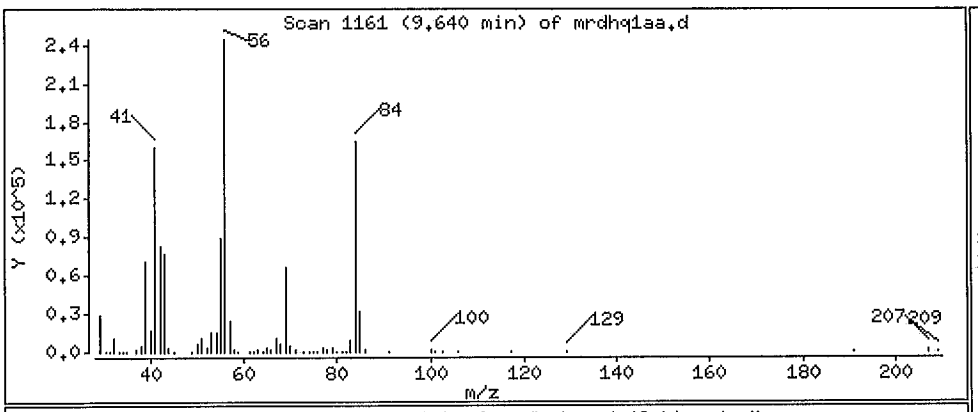
Operator: 7126

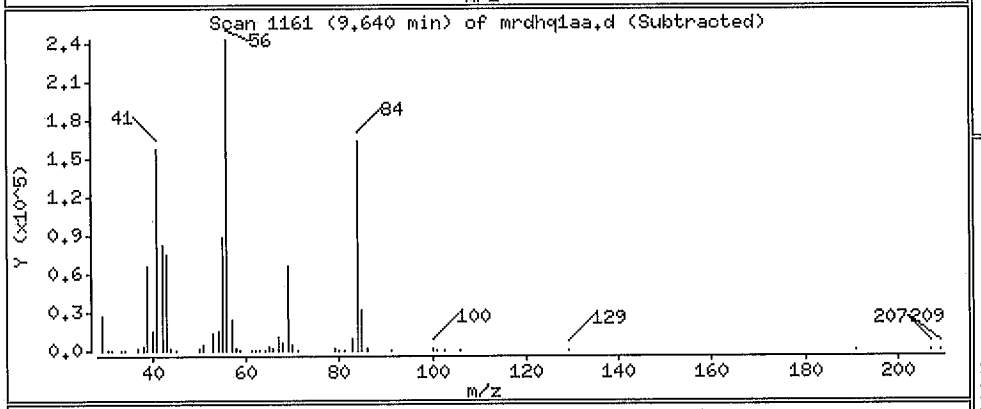
Column phase: Rtx-5

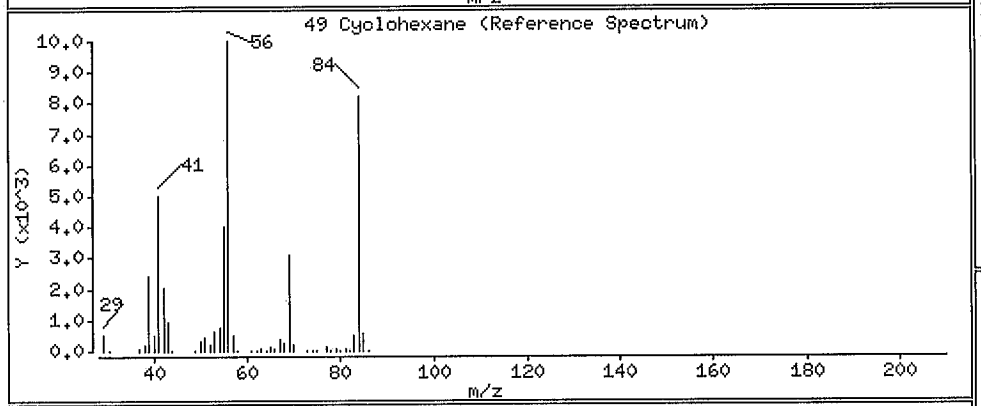
Column diameter: 0.32

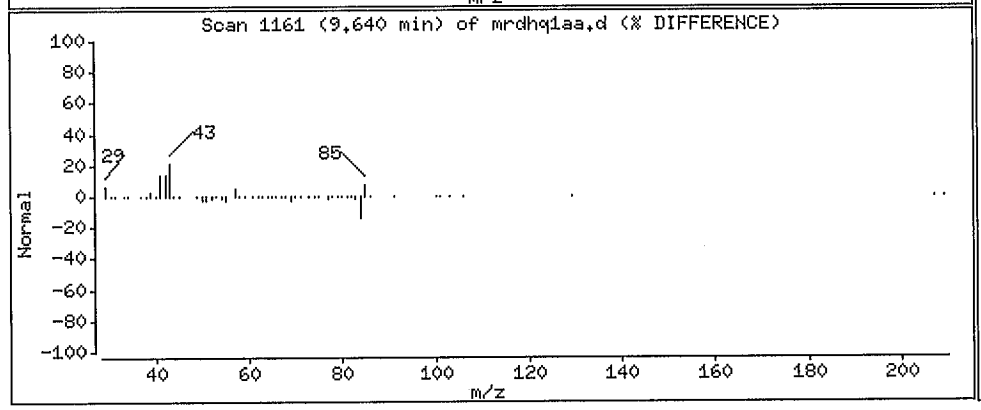
49 Cyclohexane

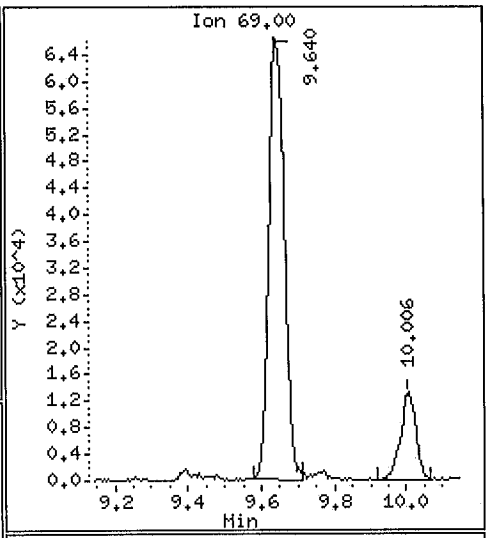
Concentration: 2.238 ppb(v/v)

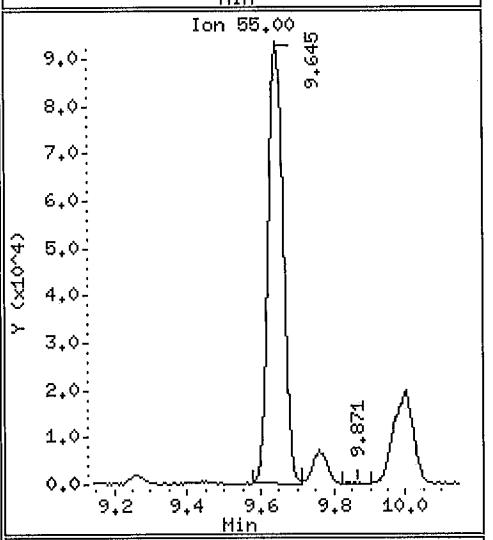


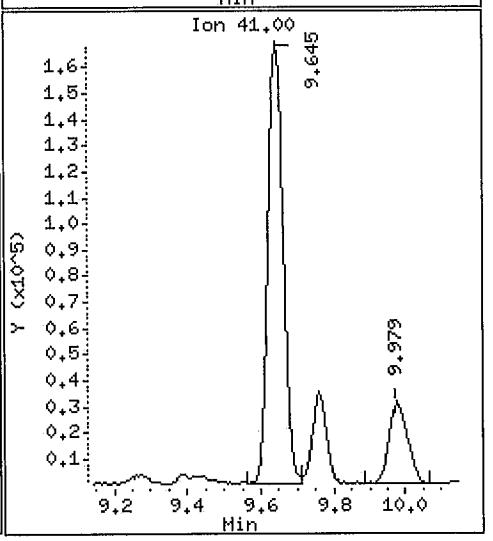












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

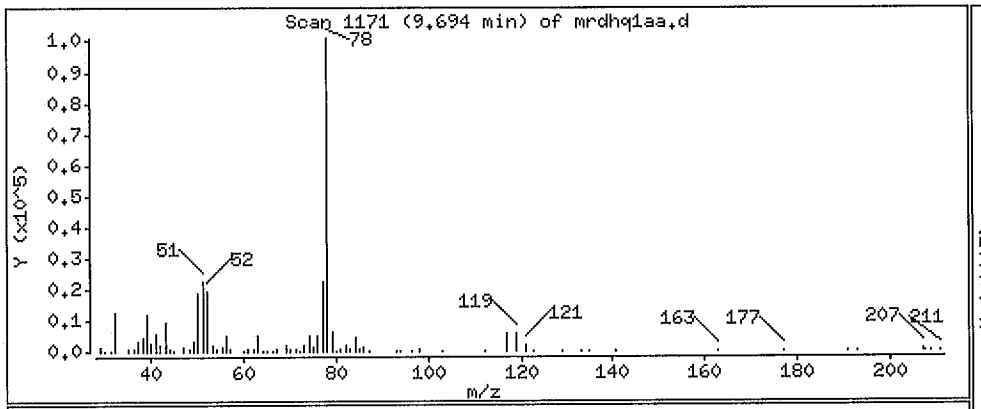
Operator: 7126

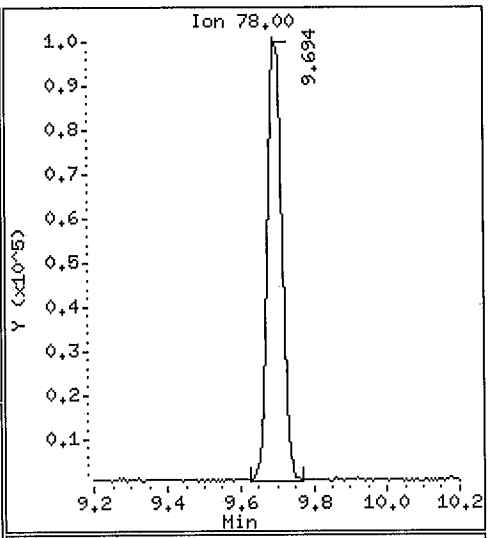
Column phase: Rtx-5

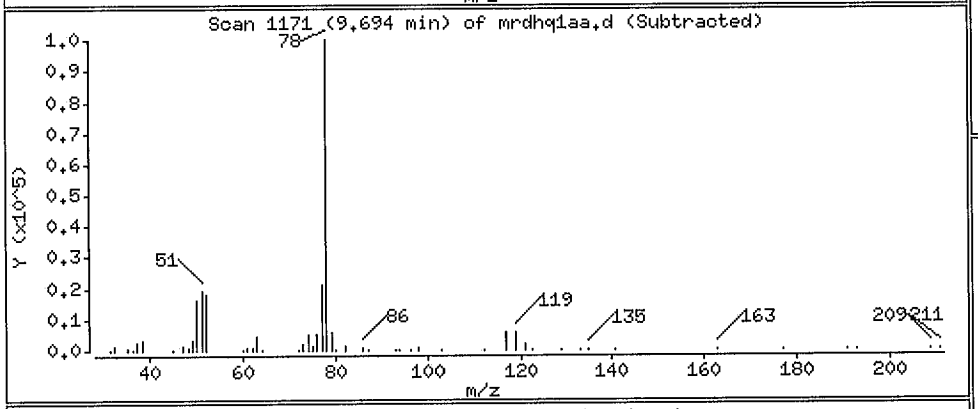
Column diameter: 0.32

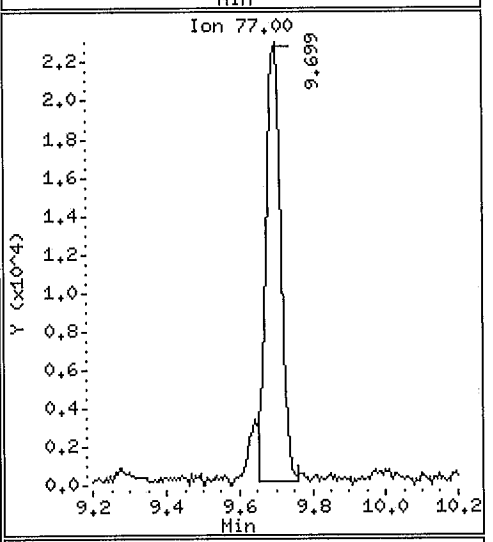
48 Benzene

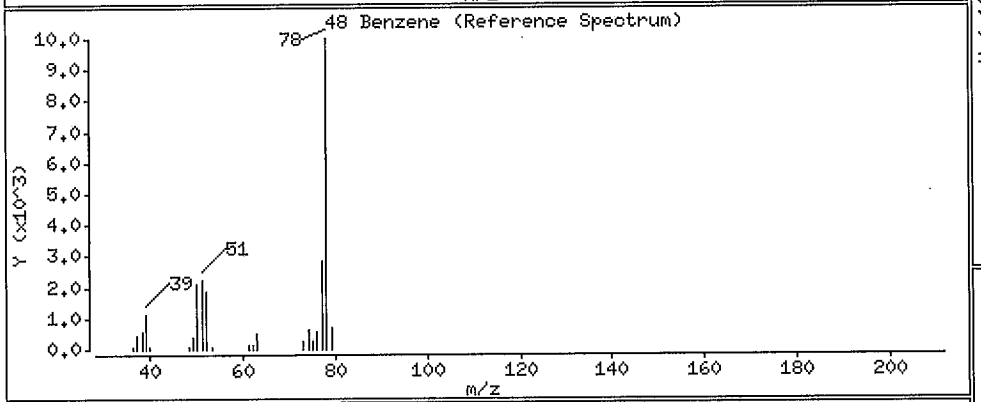
Concentration: 0.5973 ppb(v/v)

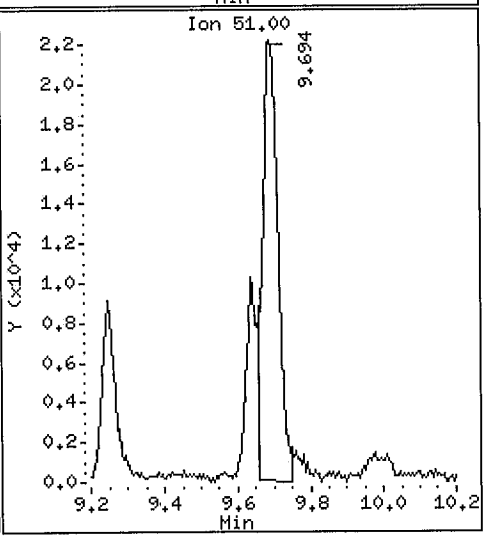


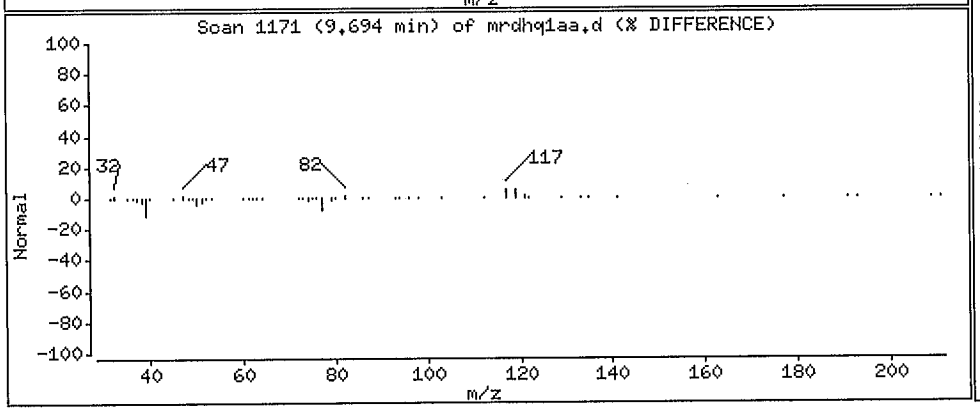












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

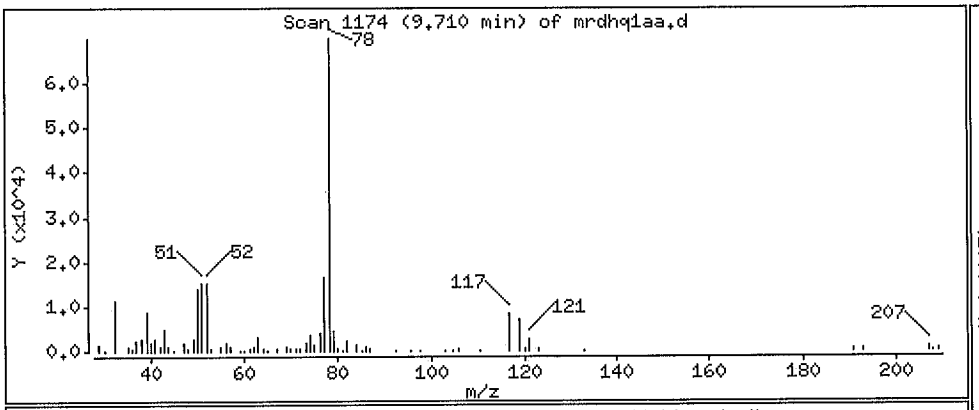
Operator: 7126

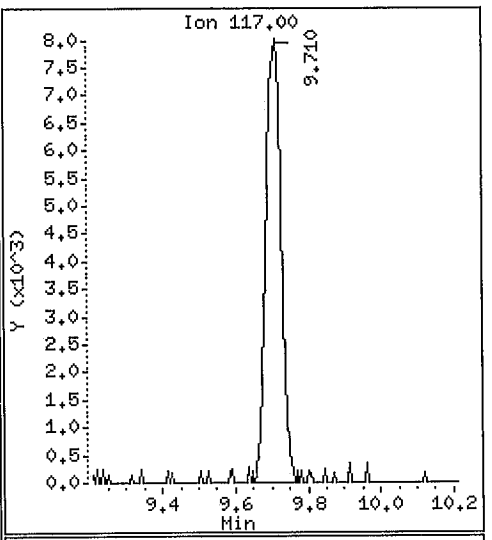
Column phase: Rtx-5

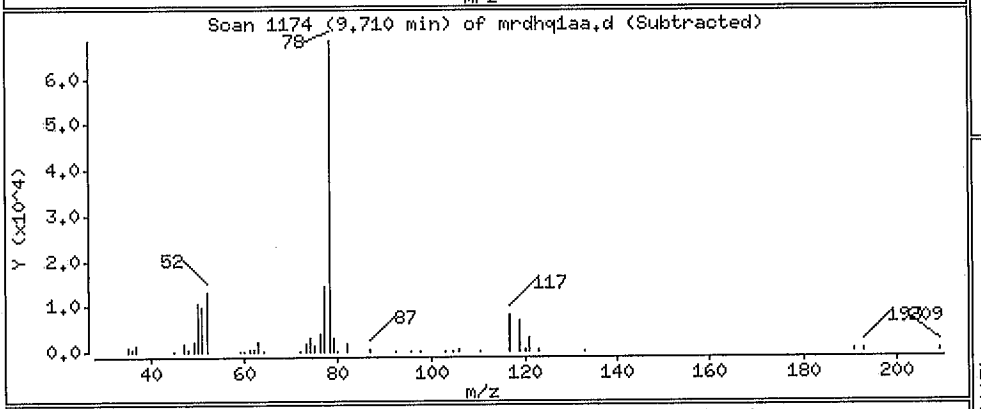
Column diameter: 0.32

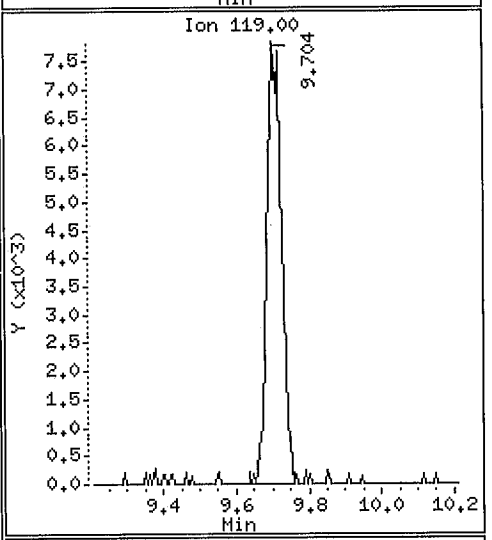
50 Carbon Tetrachloride

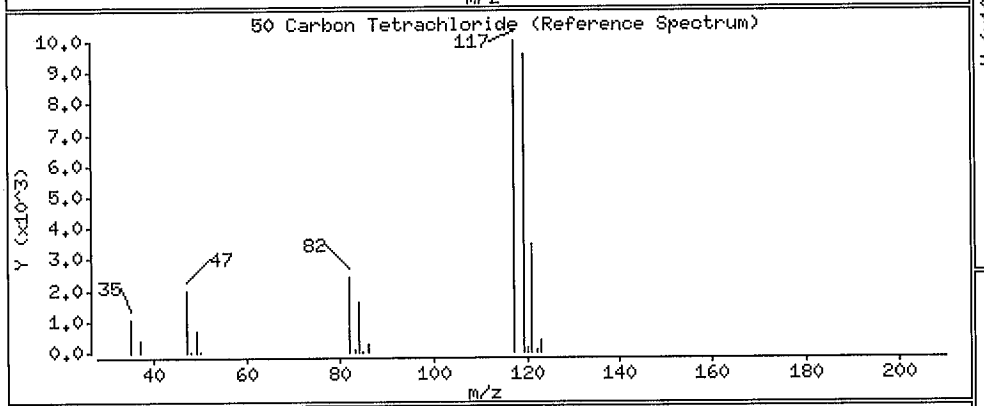
Concentration: 0.05911 ppb(v/v)

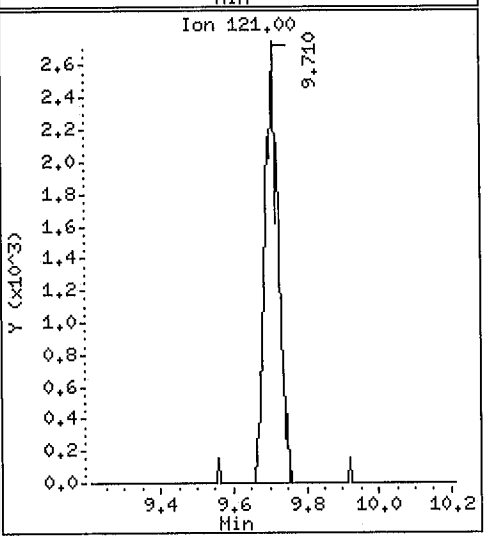


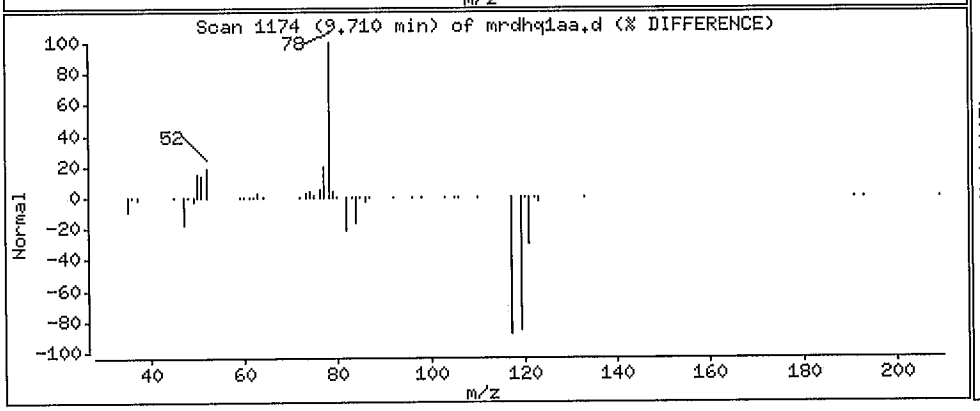












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

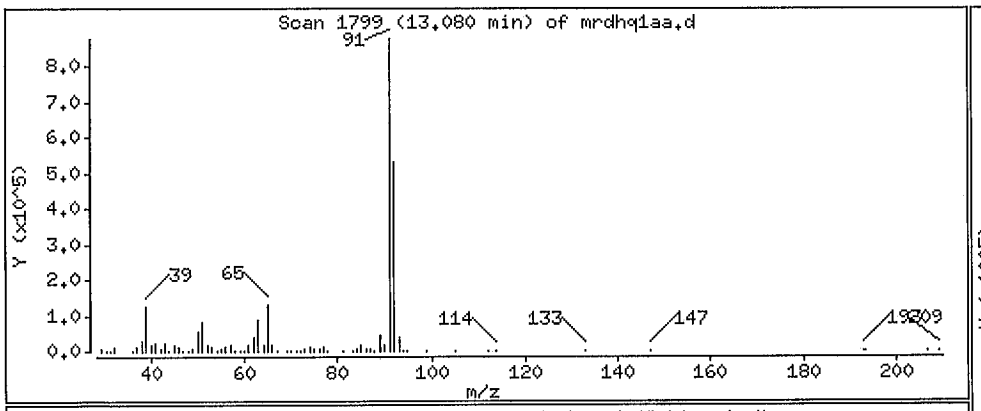
Operator: 7126

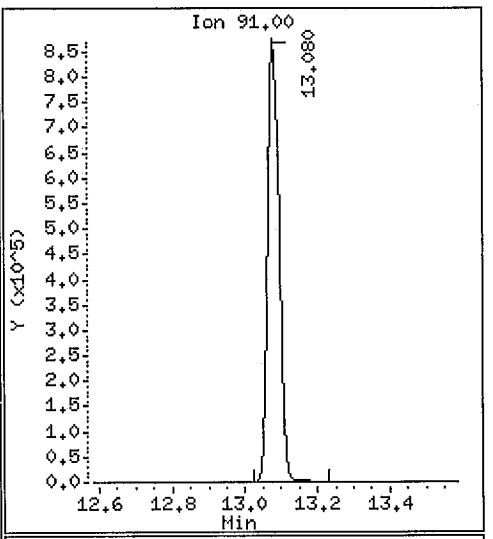
Column phase: Rtx-5

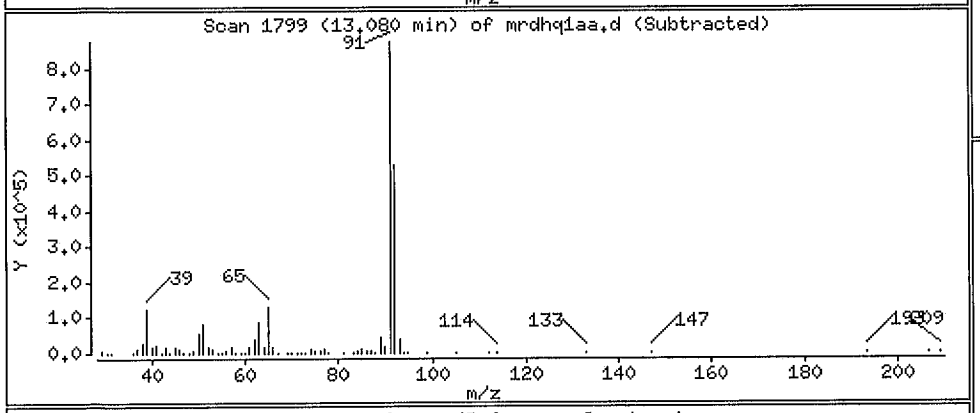
Column diameter: 0.32

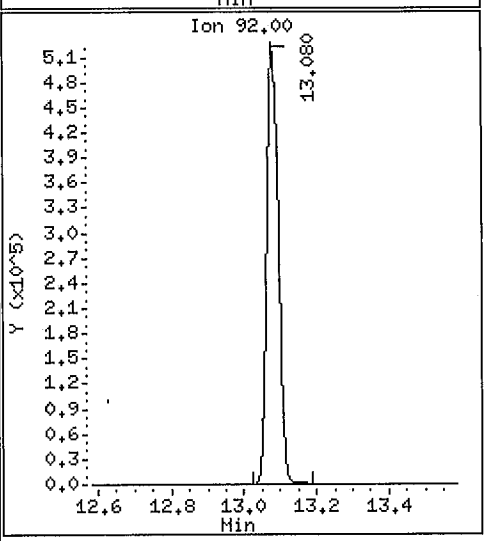
65 Toluene

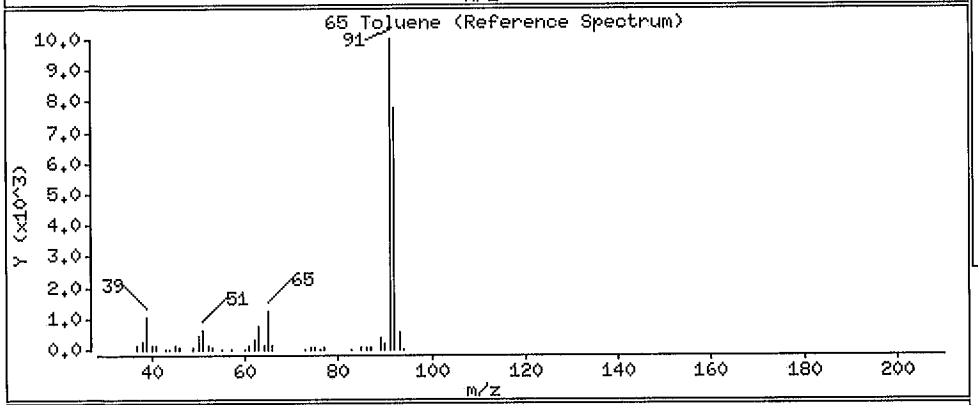
Concentration: 3.293 ppb(v/v)

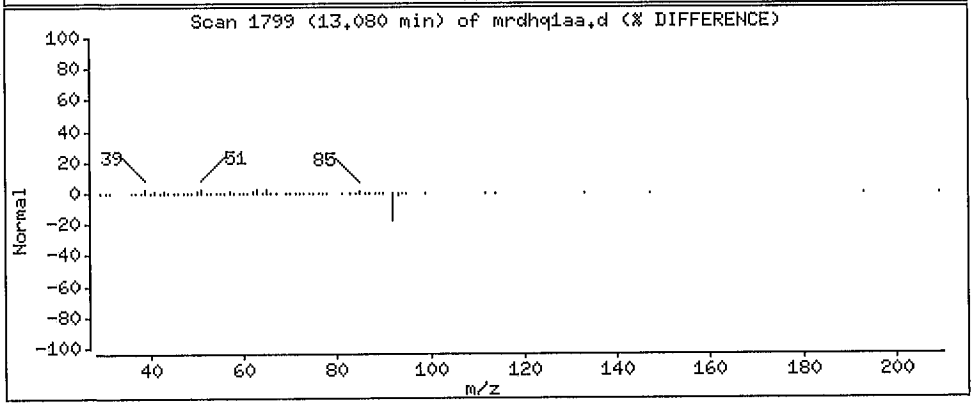












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

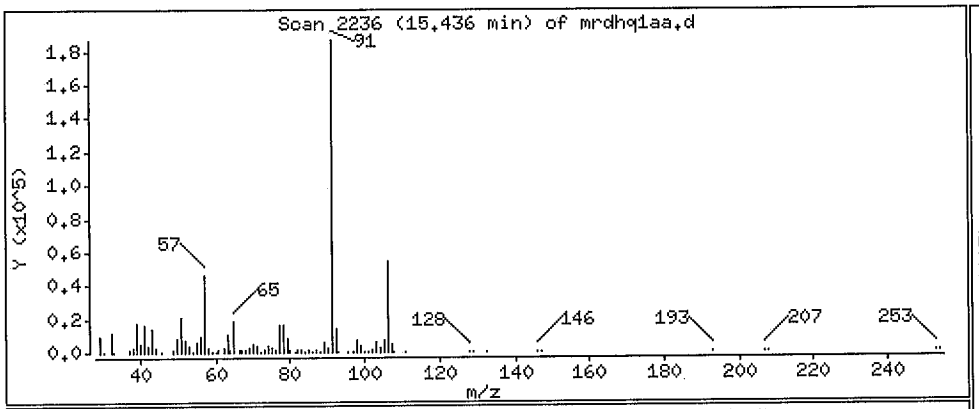
Operator: 7126

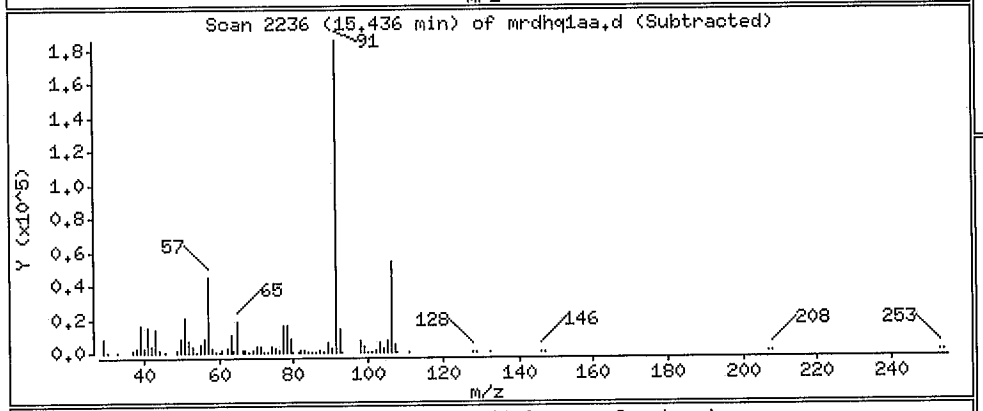
Column phase: Rtx-5

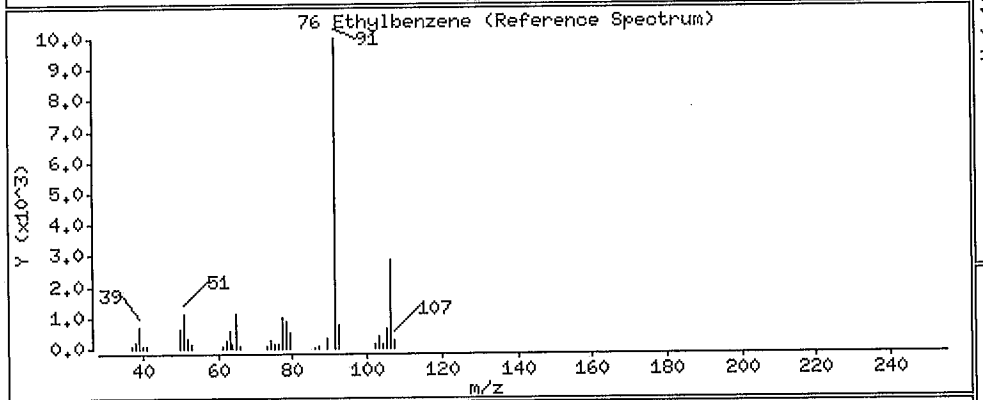
Column diameter: 0.32

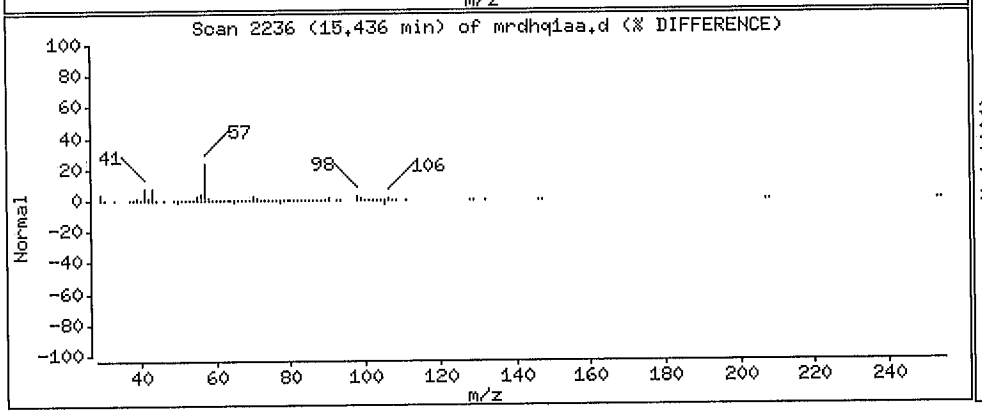
76 Ethylbenzene

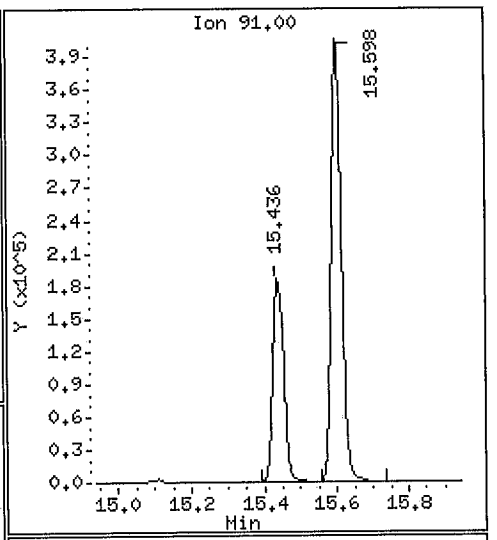
Concentration: 0.5123 ppb(v/v)

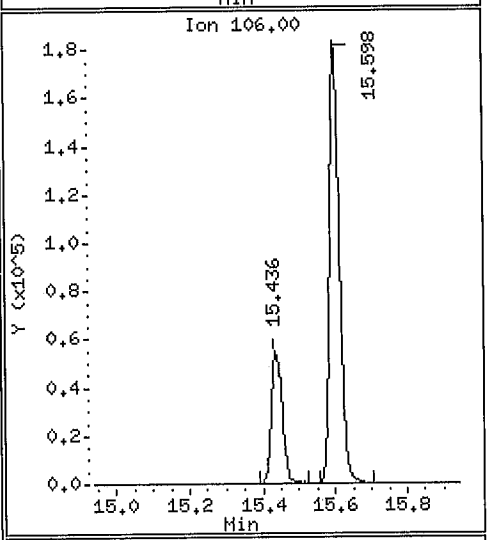


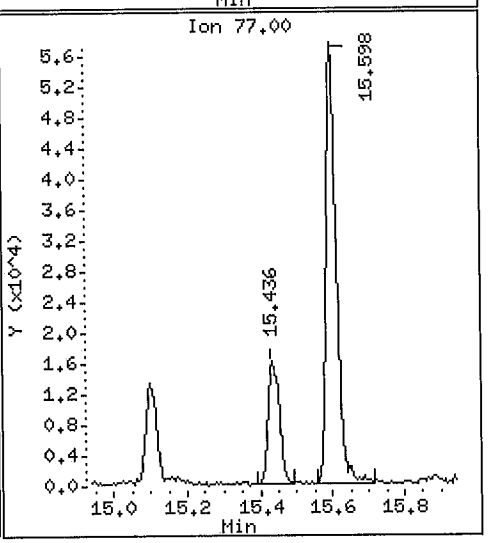












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

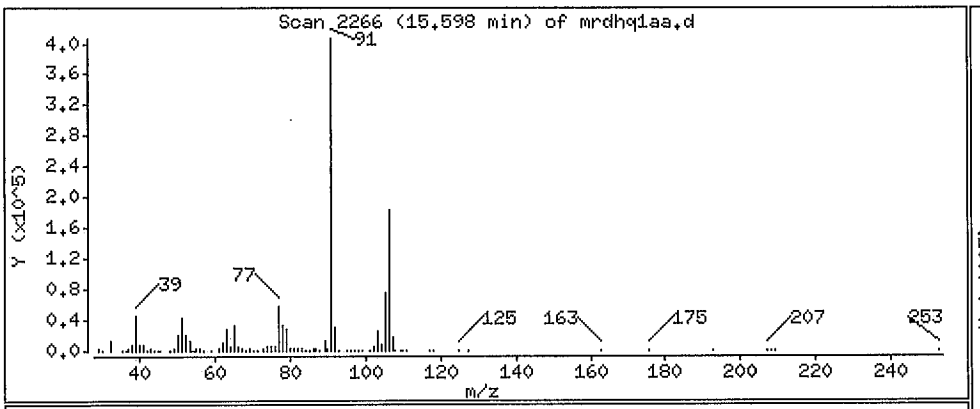
Operator: 7126

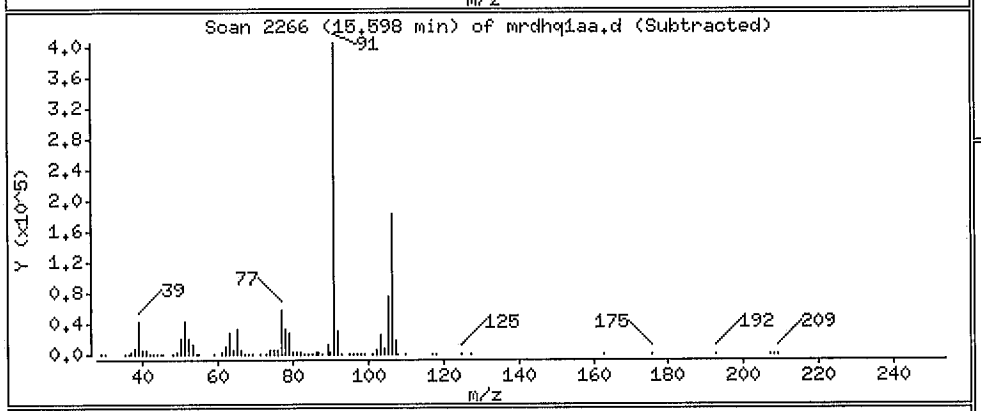
Column phase: Rtx-5

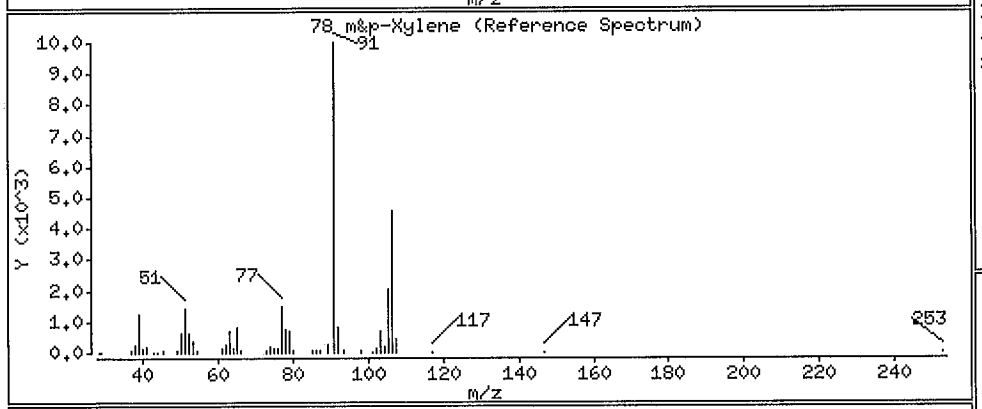
Column diameter: 0.32

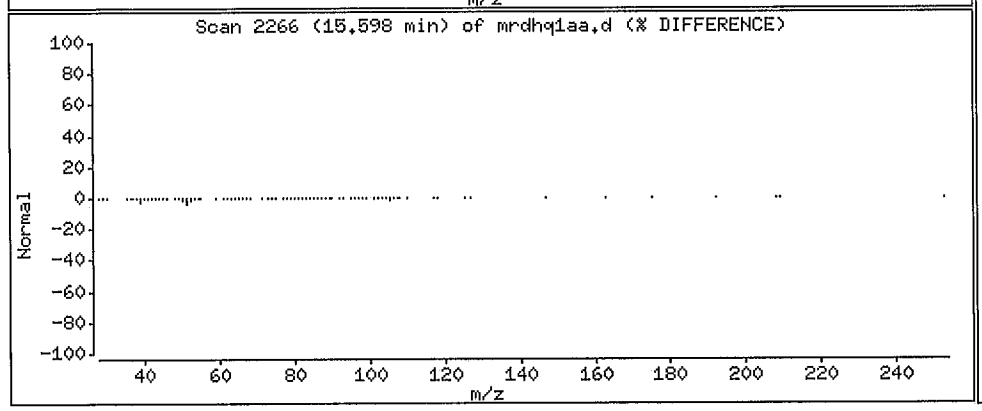
78 m&p-Xylene

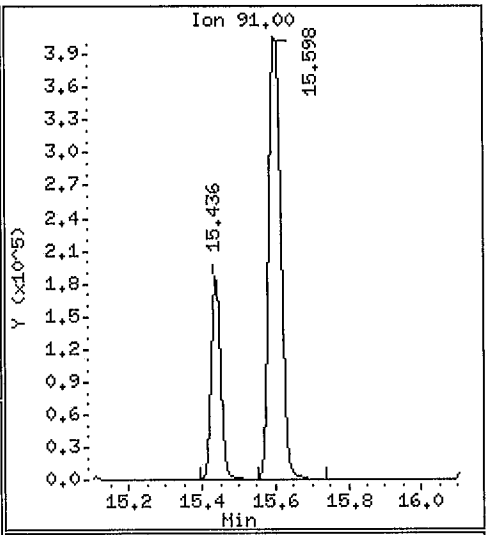
Concentration: 1.601 ppb(v/v)

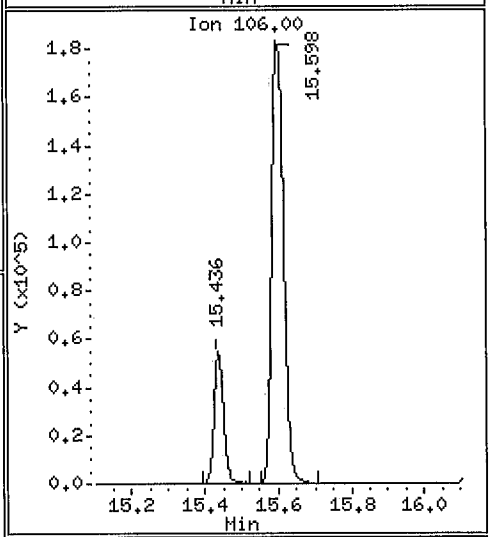


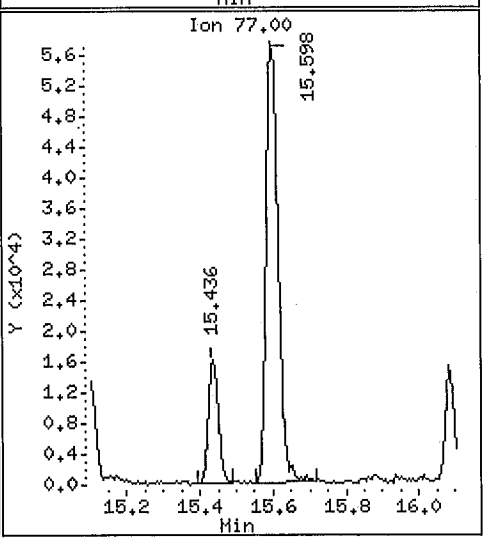












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

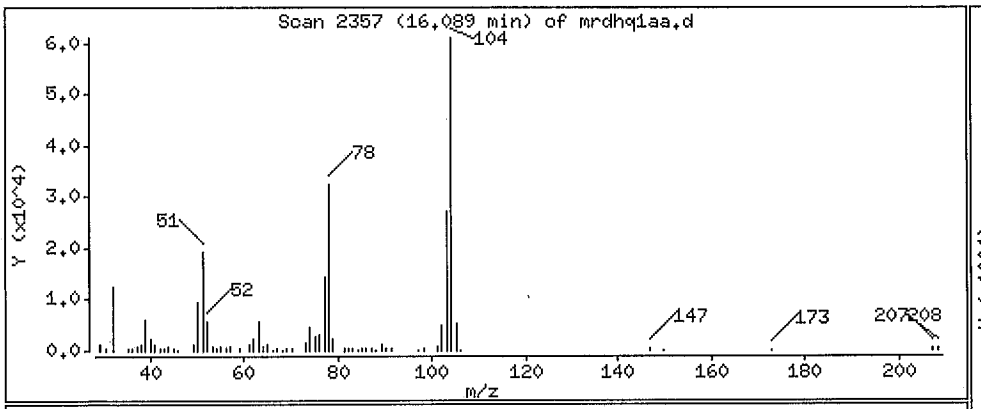
Operator: 7126

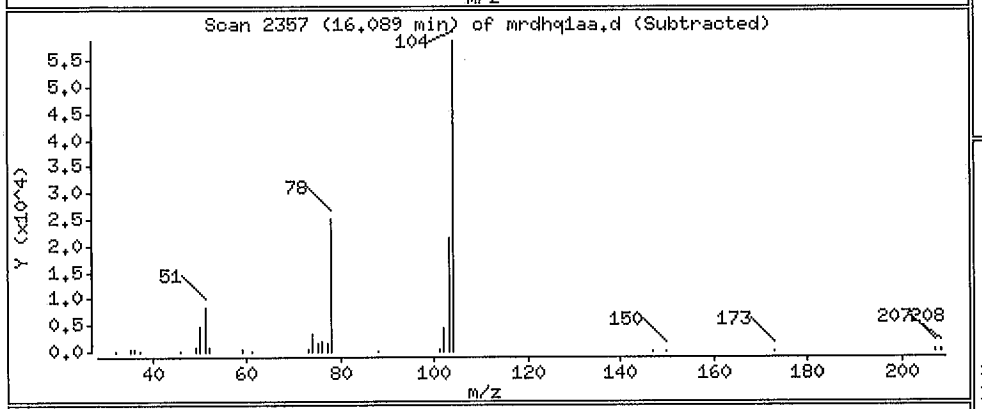
Column phase: Rtx-5

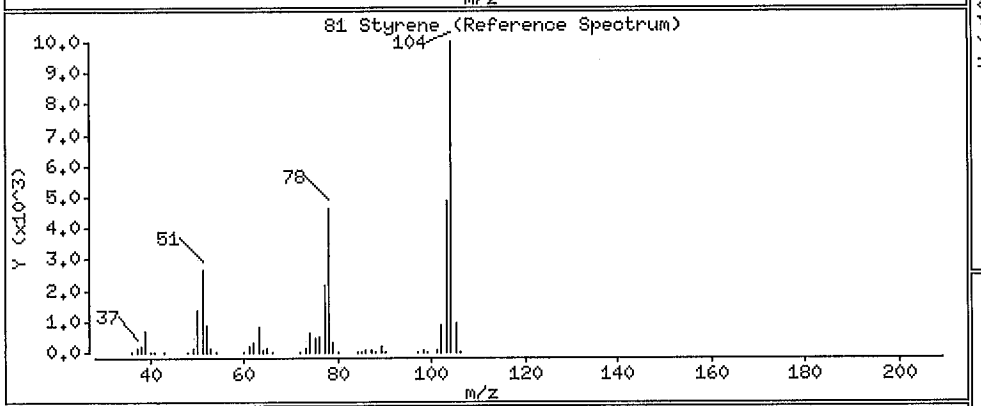
Column diameter: 0.32

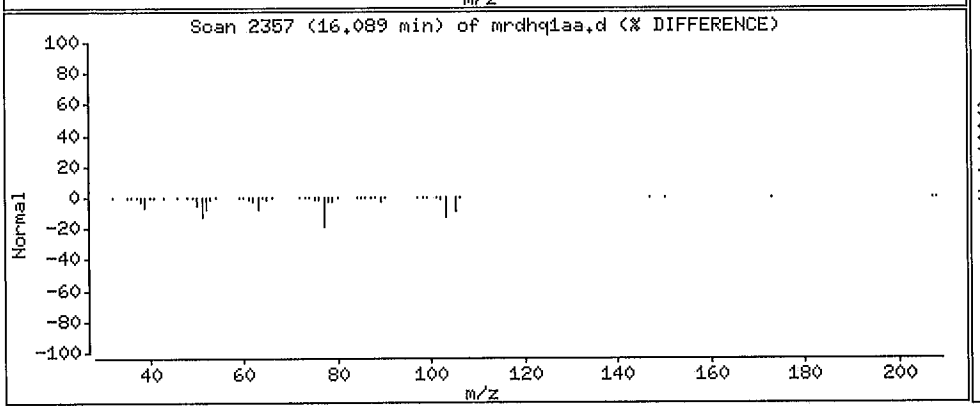
81 Styrene

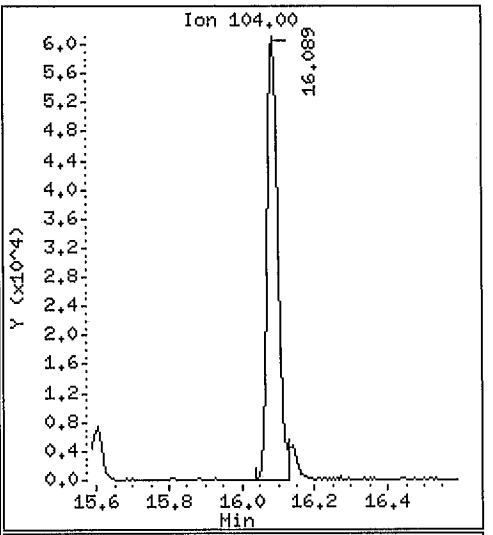
Concentration: 0.2909 ppb(v/v)

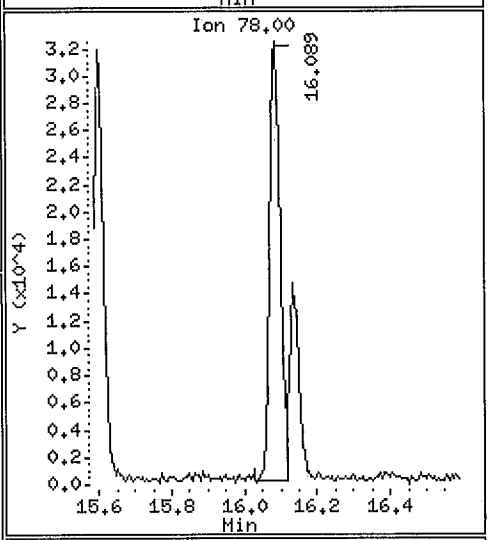


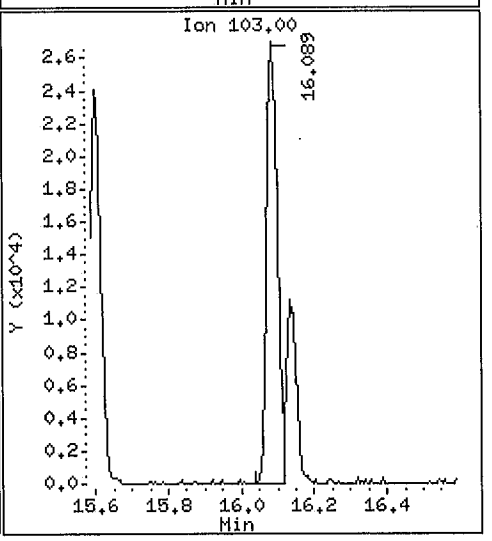












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

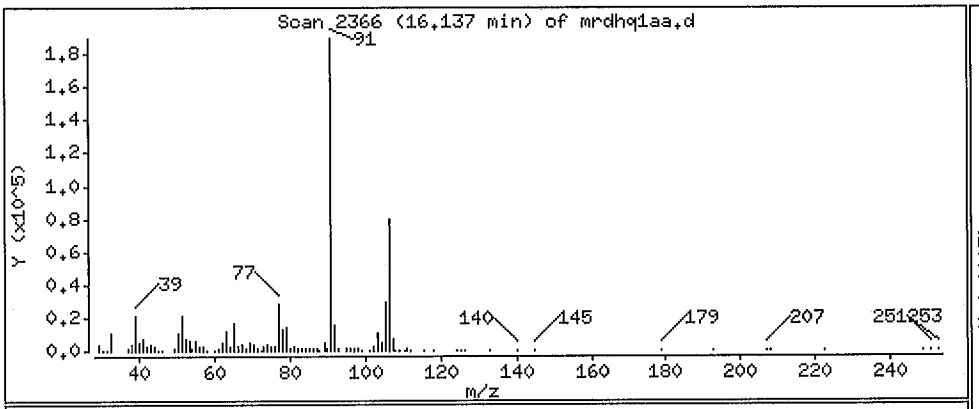
Operator: 7126

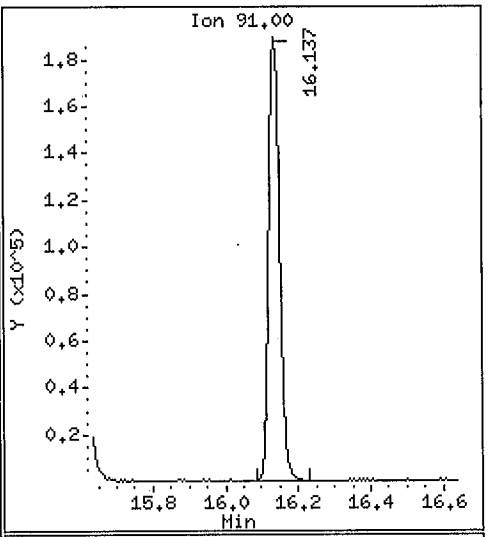
Column phase: Rtx-5

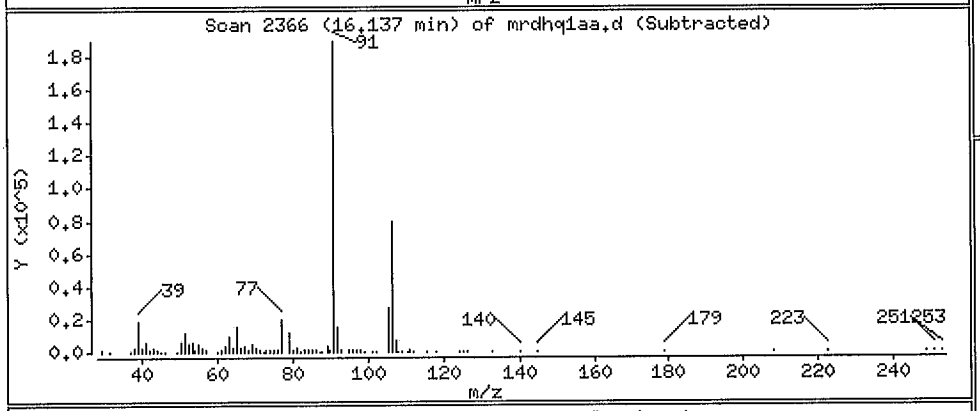
Column diameter: 0.32

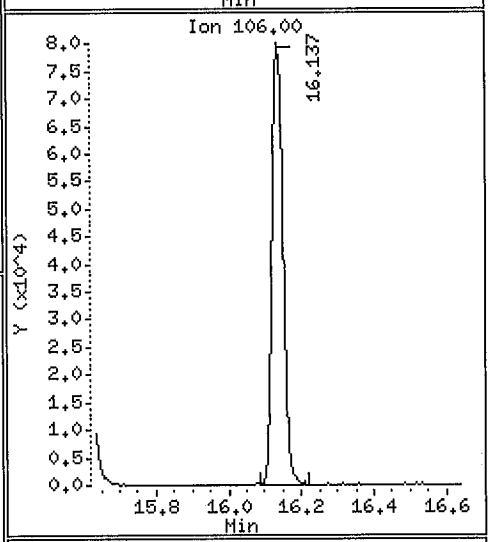
82 o-Xylene

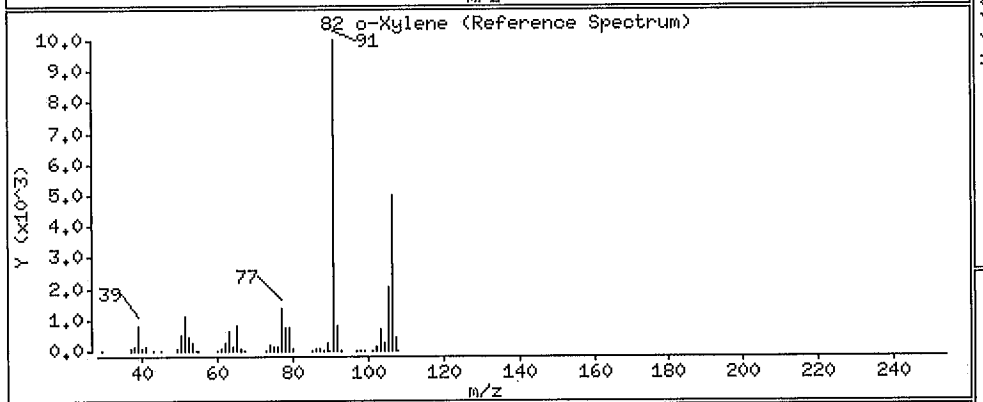
Concentration: 0.6486 ppb(v/v)

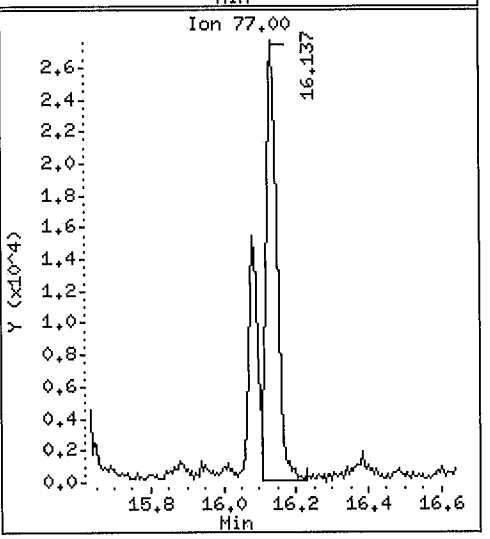


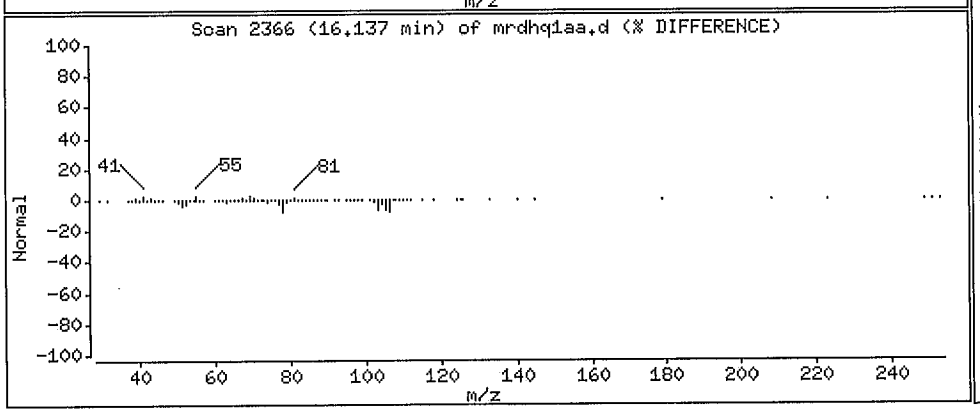












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

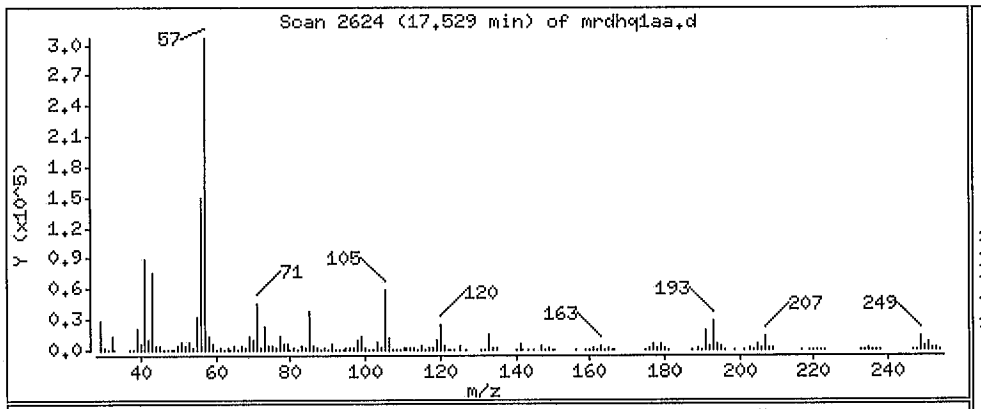
Operator: 7126

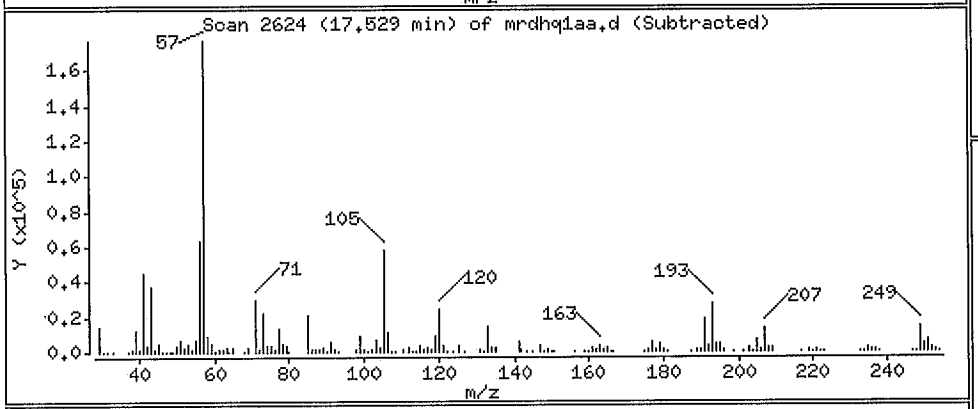
Column phase: Rtx-5

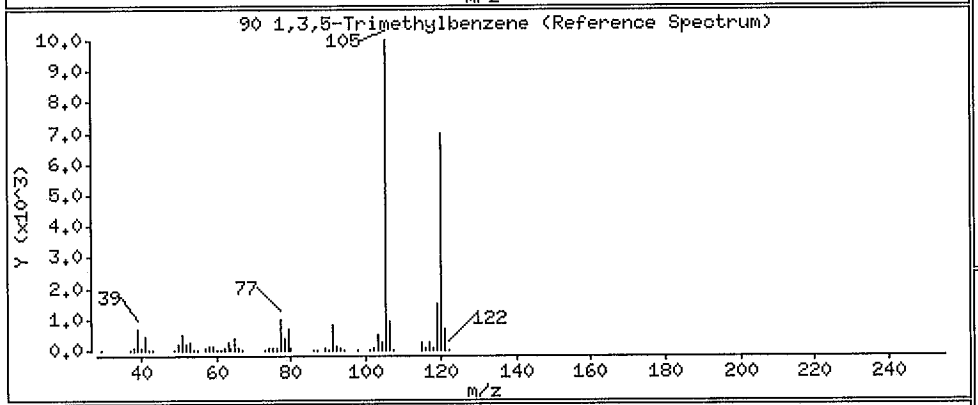
Column diameter: 0.32

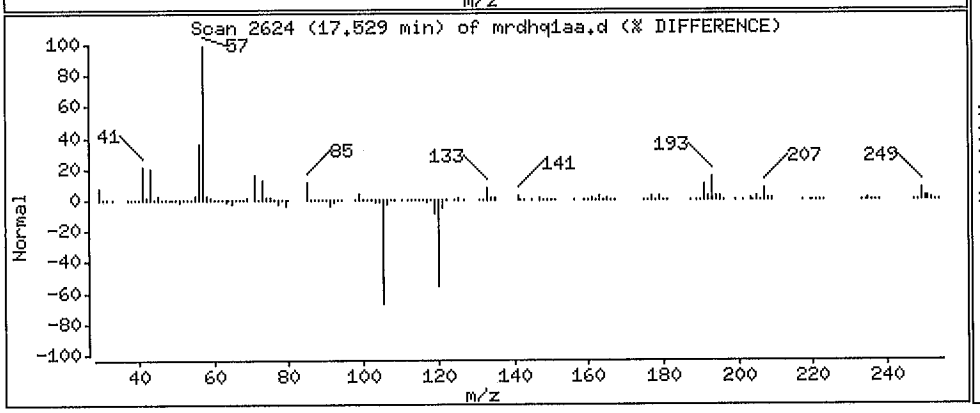
90 1,3,5-Trimethylbenzene

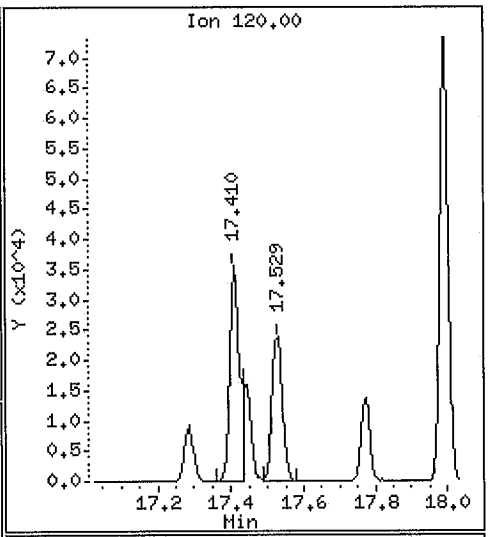
Concentration: 0.1233 ppb(v/v)

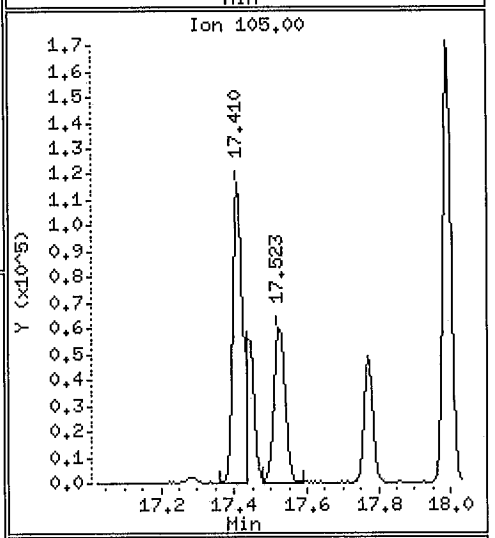


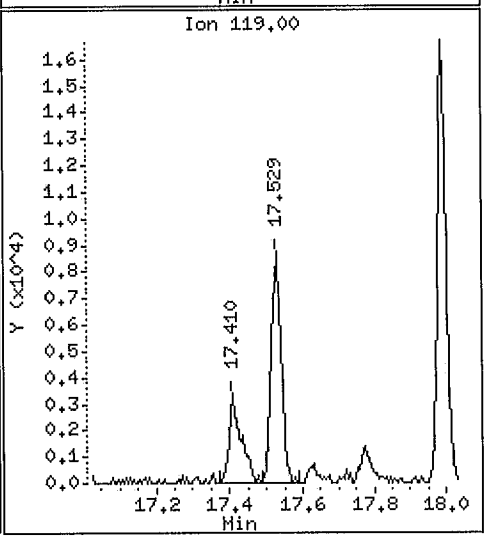












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

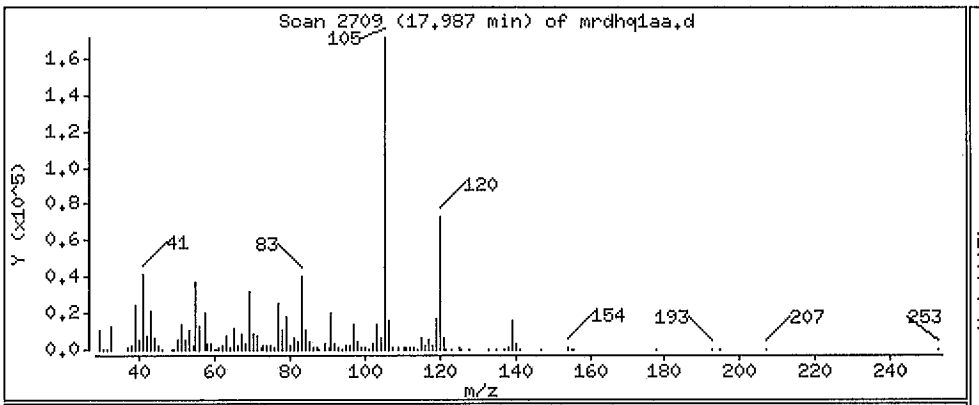
Operator: 7126

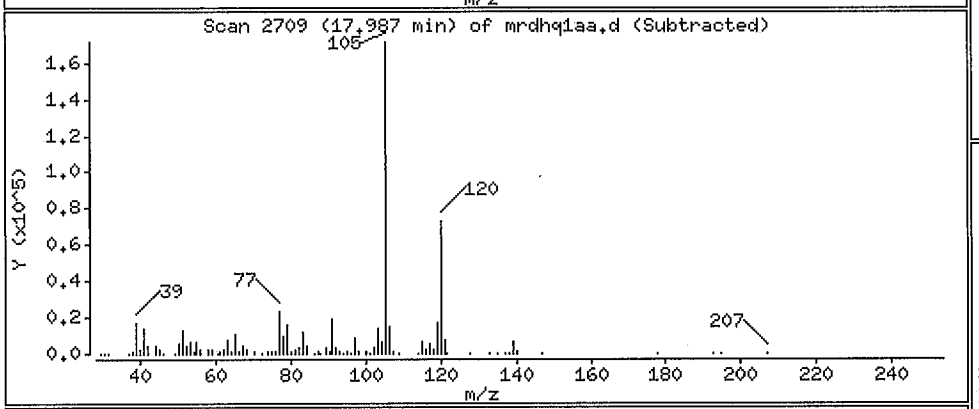
Column phase: Rtx-5

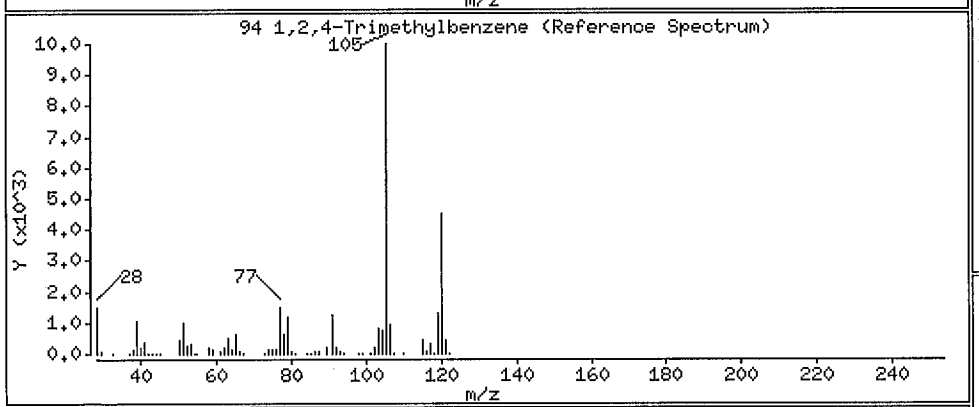
Column diameter: 0.32

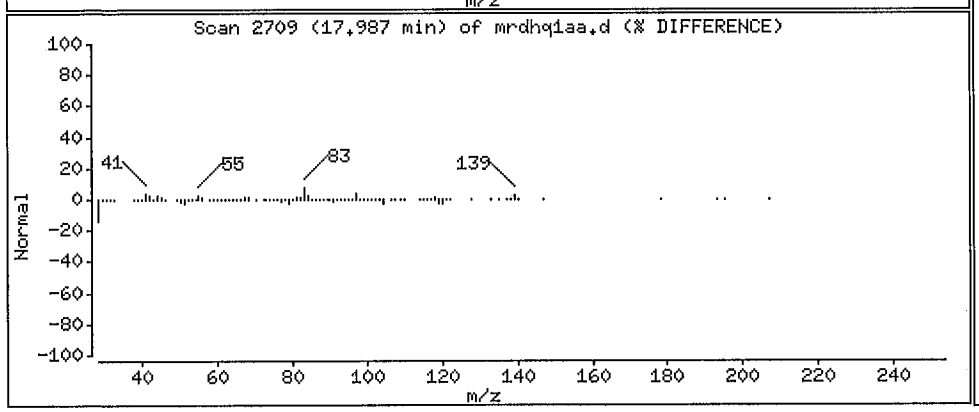
94 1,2,4-Trimethylbenzene

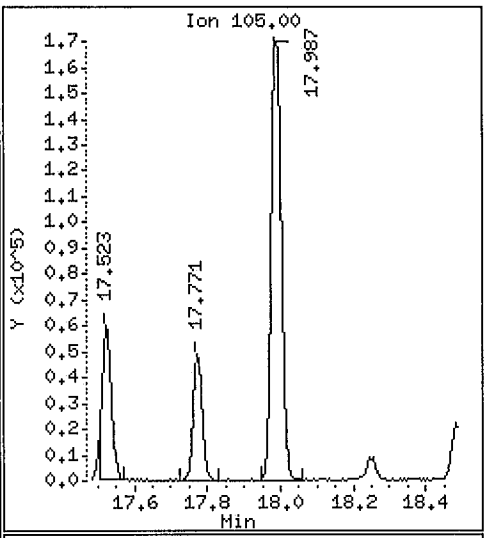
Concentration: 0.4666 ppb(v/v)

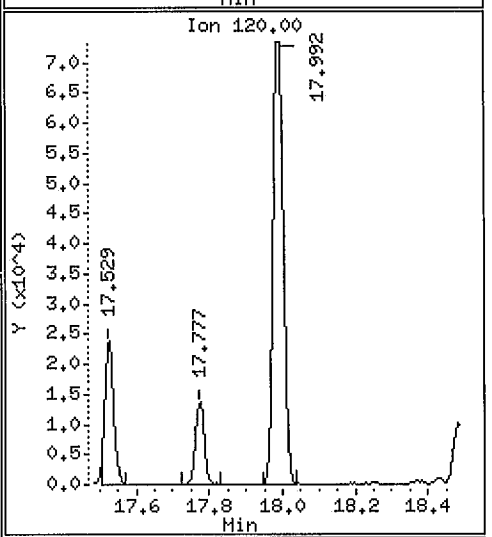


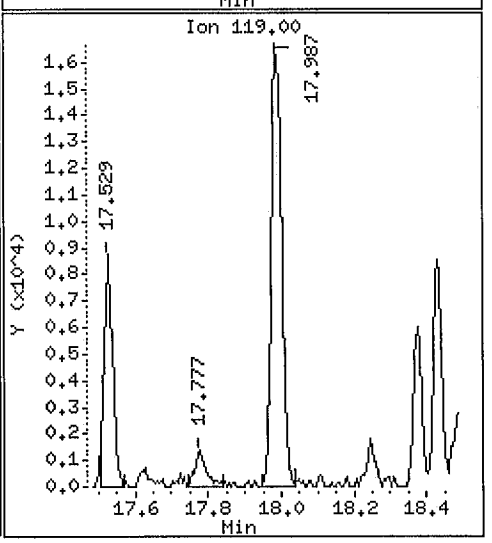












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhq1aa.d

Date : 13-MAR-2012 23:12

Client ID: HOUSE # 3 SS

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

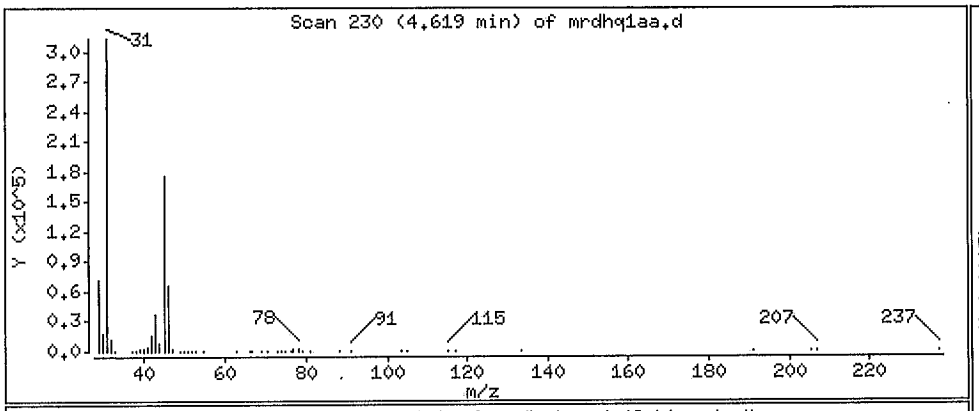
Operator: 7126

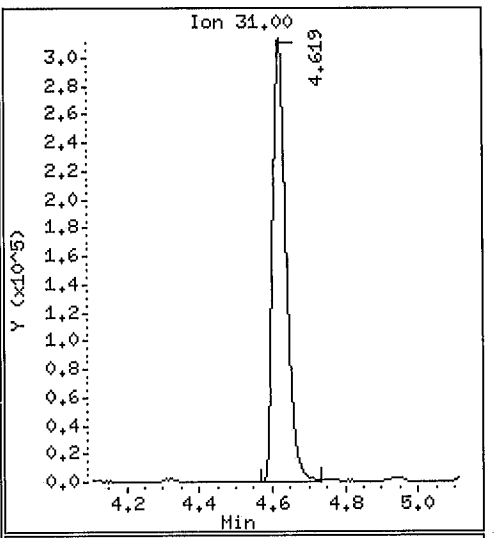
Column phase: Rtx-5

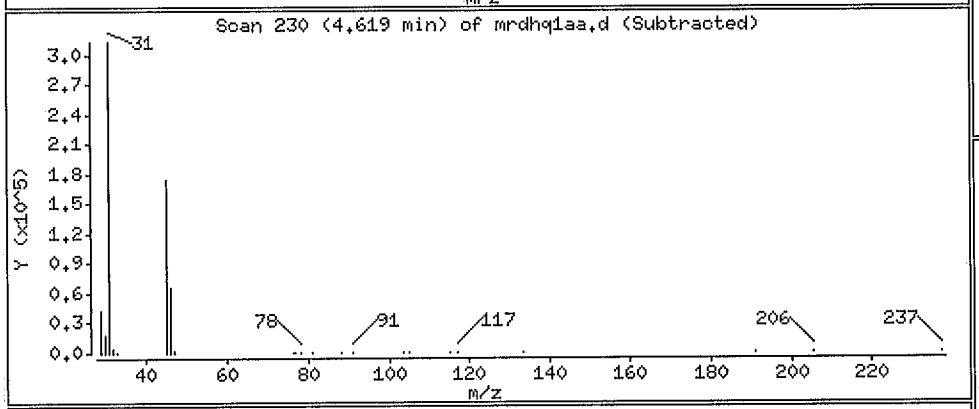
Column diameter: 0.32

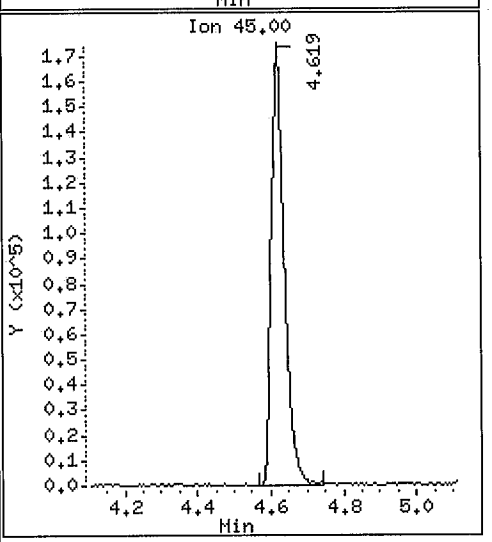
17 ^ ethanol

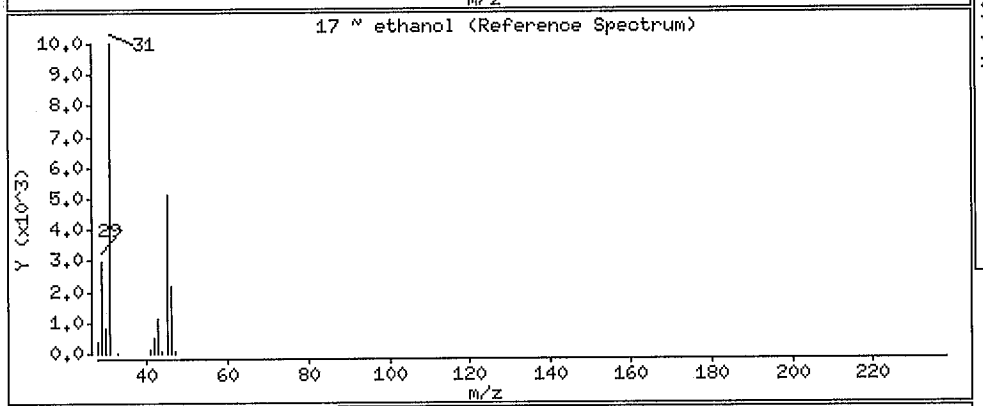
Concentration: 18.11 ppb(v/v)

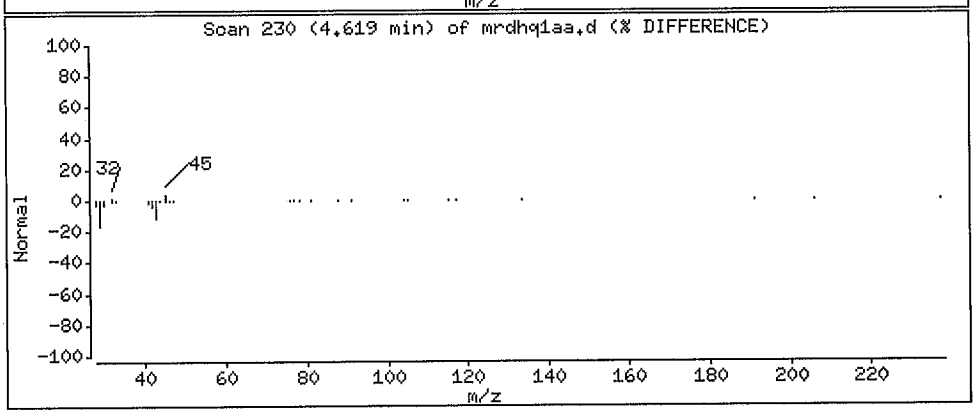












New York State D.E.C.

Client Sample ID: HOUSE # 3 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 009 **Work Order #** MRDHR1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/14/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**0.50**	**0.32**	**1.5**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.27**	**0.080**	**0.87**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.079**	**0.040**	**0.50**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	**0.56**	**0.20**	**1.2**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.52**	**0.080**	**2.6**	**0.40**
Ethanol	**2.9**	**0.80**	**5.5**	**1.5**
Ethylbenzene	**0.12**	**0.080**	**0.51**	**0.35**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	**0.21**	**0.20**	**0.73**	**0.70**
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 3 INDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 009 **Work Order #** MRDHR1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.50**	**0.080**	**1.9**	**0.30**
m-Xylene & p-Xylene	**0.43**	**0.080**	**1.9**	**0.35**
o-Xylene	**0.17**	**0.080**	**0.75**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.18**	**0.080**	**1.0**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	109	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d
Report Date: 14-Mar-2012 13:26

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d
Lab Smp Id: MRDHR1AA Client Smp ID: HOUSE # 3 INDOOR
Inj Date : 14-MAR-2012 00:05
Operator : 7126 Inst ID: mg.i
Smp Info : ,,0,,,
Misc Info : G031312,TO15,nysdec.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 14-Mar-2012 13:23 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

V31612

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.167	8.168	(1.000)	582872	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.281	10.281	(1.000)	2870680	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.102	15.102	(1.000)	2632132	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.774	16.779	(1.111)	2087149	4.37905	4.379
7 Dichlorodifluoromethane	85	3.730	3.724	(0.457)	289560	0.51778	0.5178
8 Chloromethane	52	3.881	3.875	(0.475)	30264	0.55963	0.5596
20 Trichlorofluoromethane	101	4.937	4.943	(0.605)	101299	0.18047	0.1805
40 Hexane	56	7.423	7.418	(0.909)	34939	0.20703	0.2070
39 2-Butanone	72	7.569	7.553	(0.927)	39450	0.49955	0.4995
48 Benzene	78	9.699	9.699	(0.943)	146747	0.27194	0.2719
50 Carbon Tetrachloride	117	9.704	9.710	(0.944)	36606	0.07875	0.07875
65 Toluene	91	13.080	13.085	(0.866)	320289	0.49949	0.4995
76 Ethylbenzene	91	15.436	15.442	(1.022)	94639	0.11698	0.1170
78 m&p-Xylene	91	15.598	15.604	(1.033)	272416	0.43277	0.4328
82 o-Xylene	91	16.137	16.138	(1.069)	112802	0.17187	0.1719
17 ~ ethanol	31	4.619	4.609	(0.566)	156952	2.90107	2.901

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d
Report Date: 14-Mar-2012 13:26

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: mrdhr1aa.d
Lab Smp Id: MRDHR1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: HOUSE # 3 INDOOR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	582872	3.87
2 1,4-Difluorobenze	2909107	1730919	4087295	2870680	-1.32
3 Chlorobenzene-d5	2830968	1684426	3977510	2632132	-7.02

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.17	0.00
2 1,4-Difluorobenze	10.28	9.95	10.61	10.28	0.00
3 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d
Report Date: 14-Mar-2012 13:26

TestAmerica Knoxville

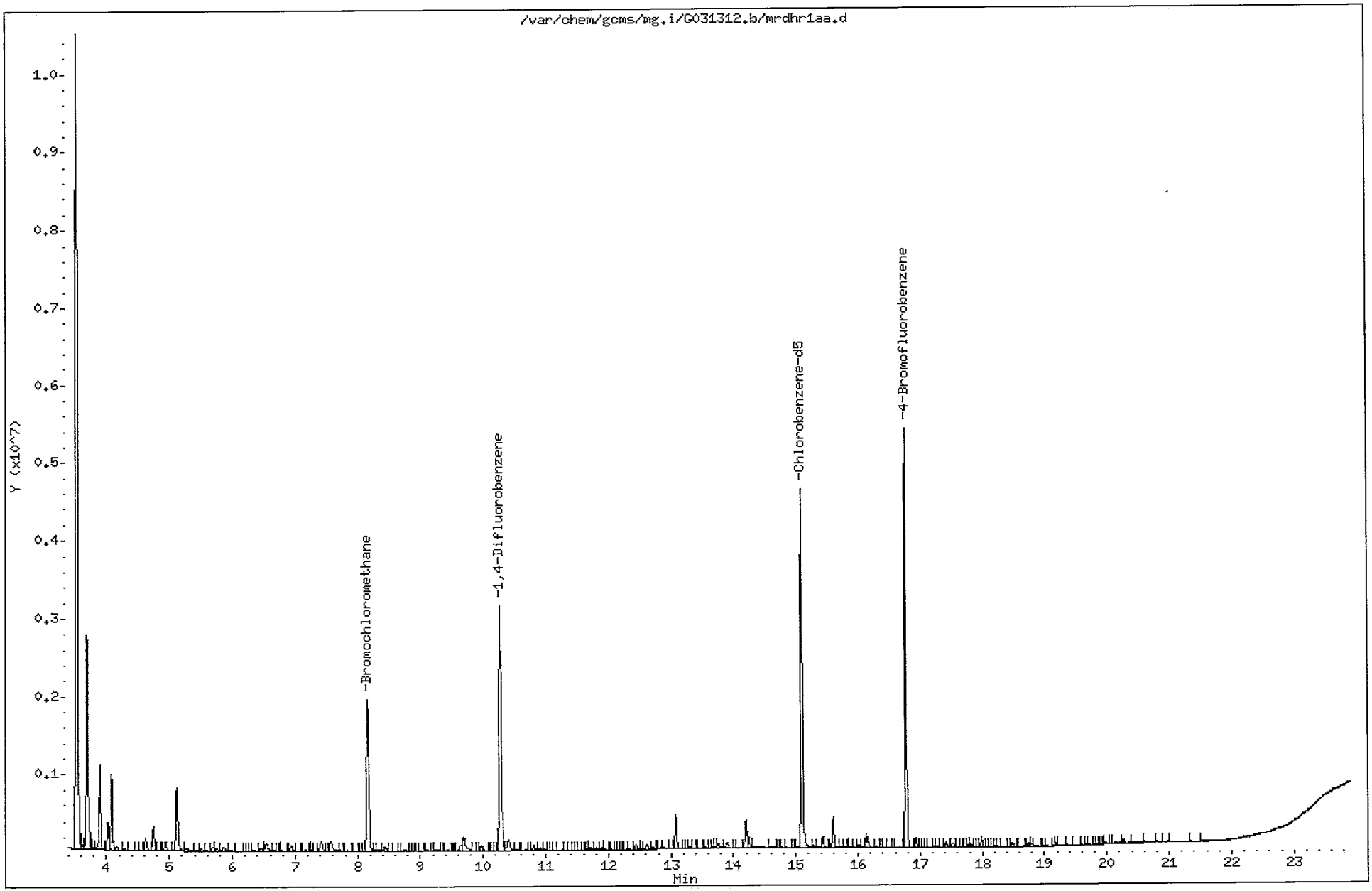
RECOVERY REPORT

Client Name: New York State D.E.C10-MAR-2012 00:00 Client SDG: H2C130401
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MRDHR1AA Client Smp ID: HOUSE # 3 INDOOR
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.379	109.48	70-130

Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d
Date : 14-MAR-2012 00:05
Client ID: HOUSE # 3 INDOOR
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/goms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

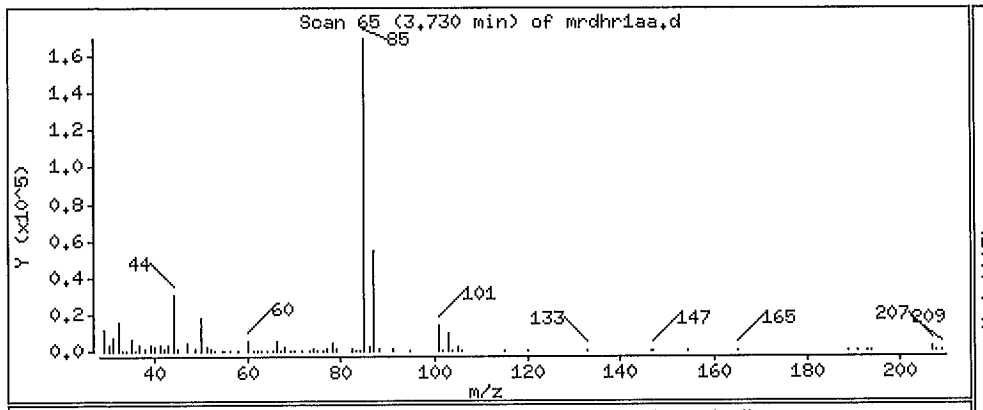
Operator: 7126

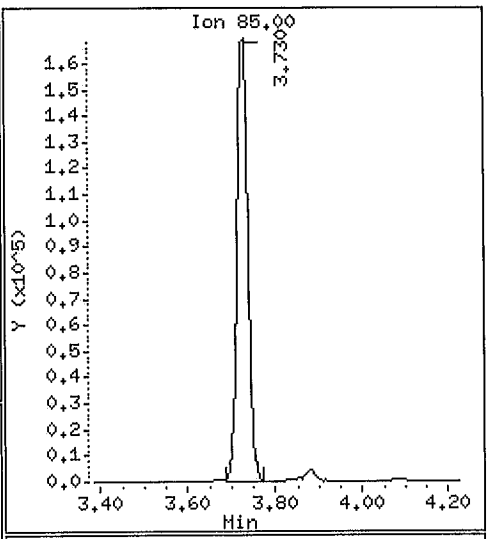
Column phase: Rtx-5

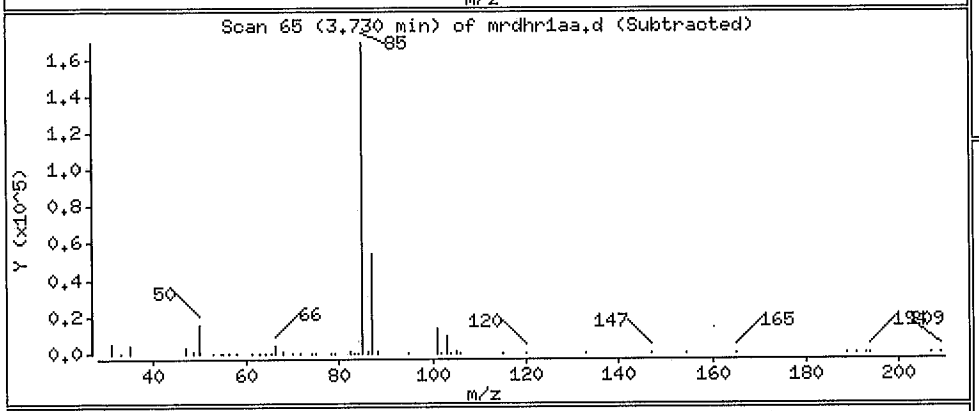
Column diameter: 0.32

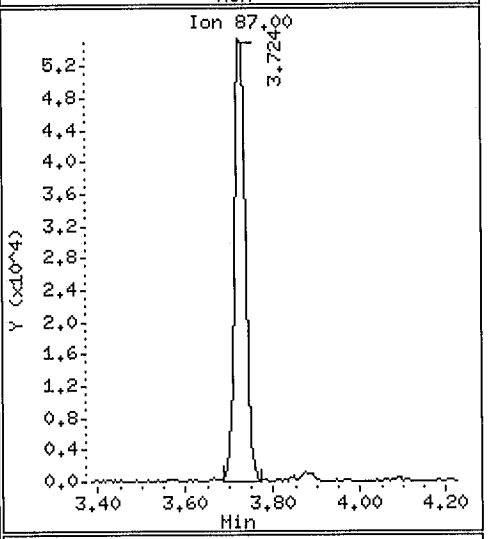
7 Dichlorodifluoromethane

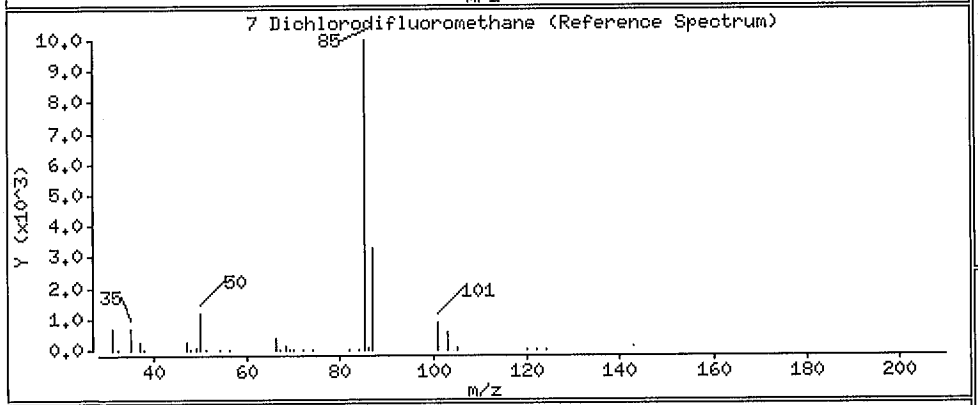
Concentration: 0.5178 ppb(v/v)

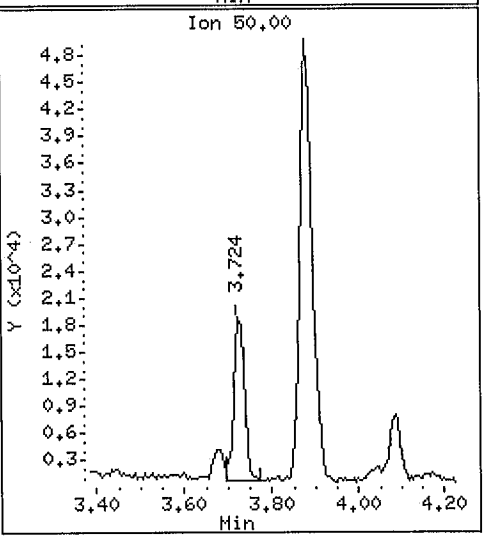


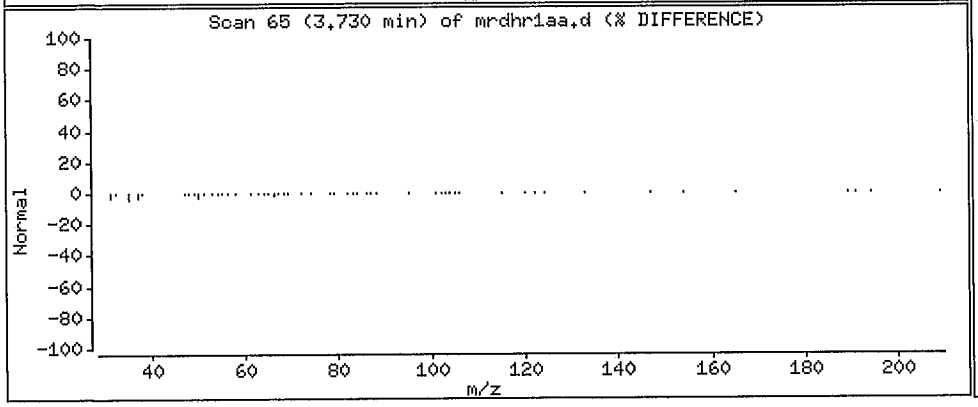












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

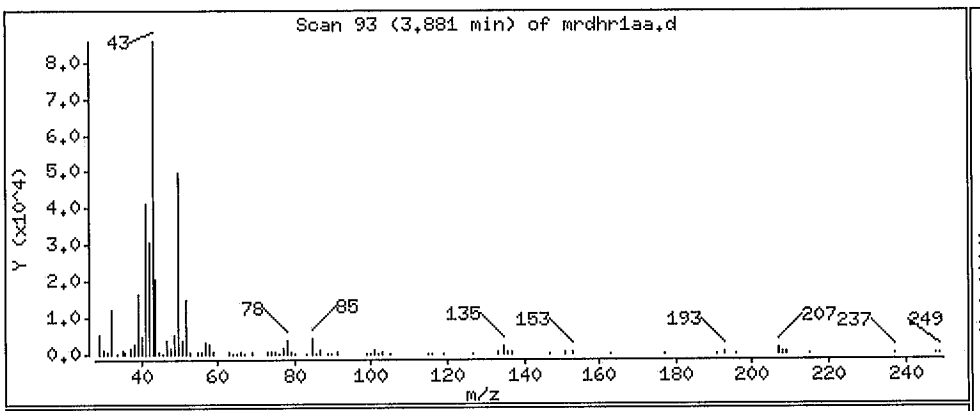
Operator: 7126

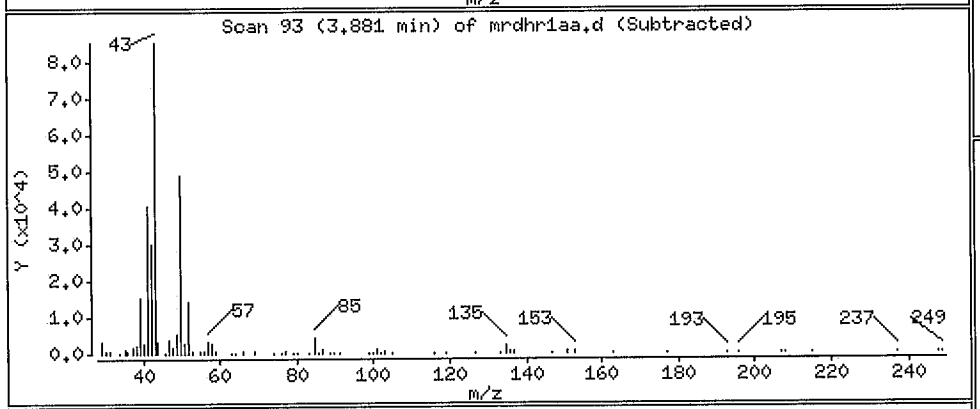
Column phase: Rtx-5

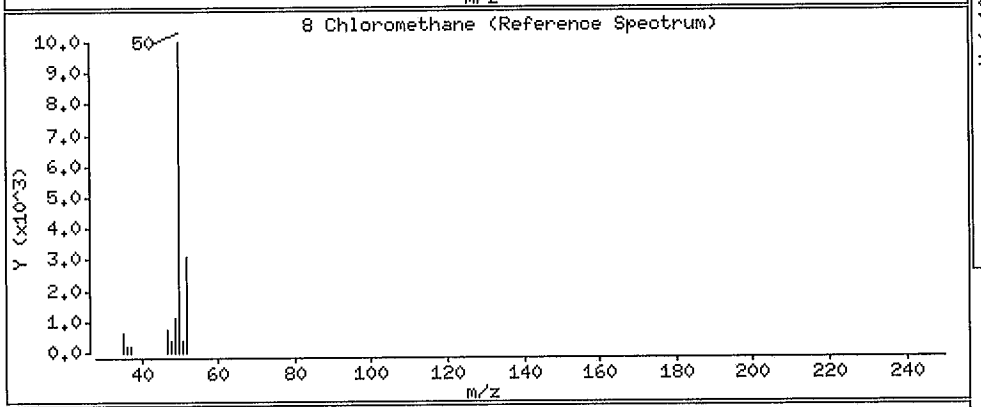
Column diameter: 0.32

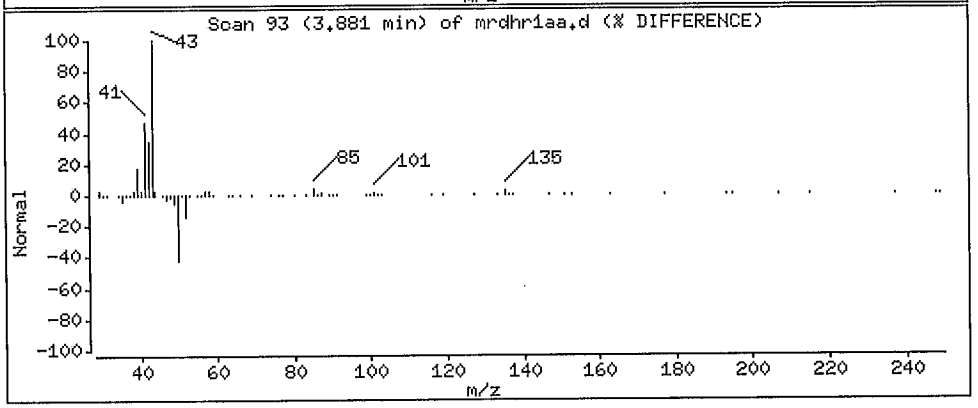
8 Chloromethane

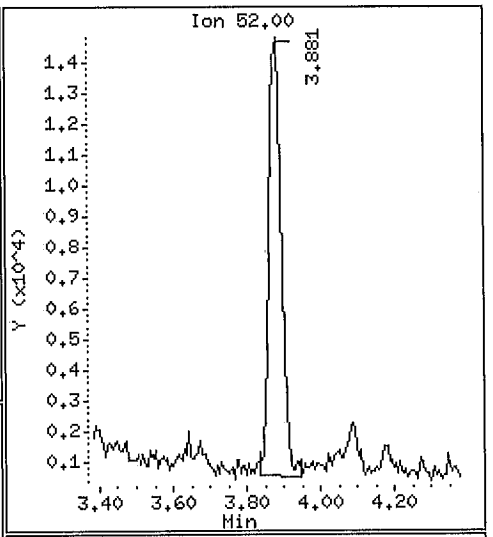
Concentration: 0.5596 ppb(v/v)

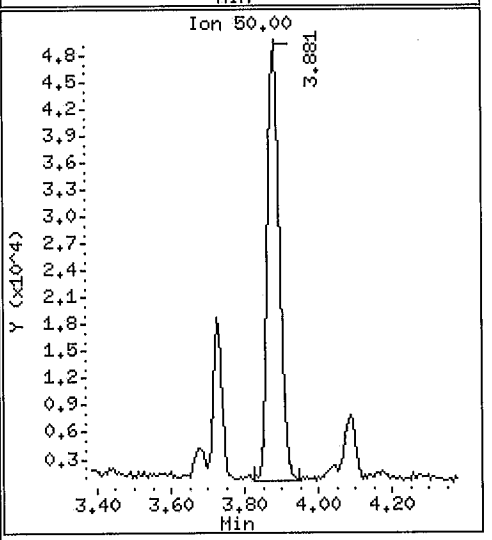












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

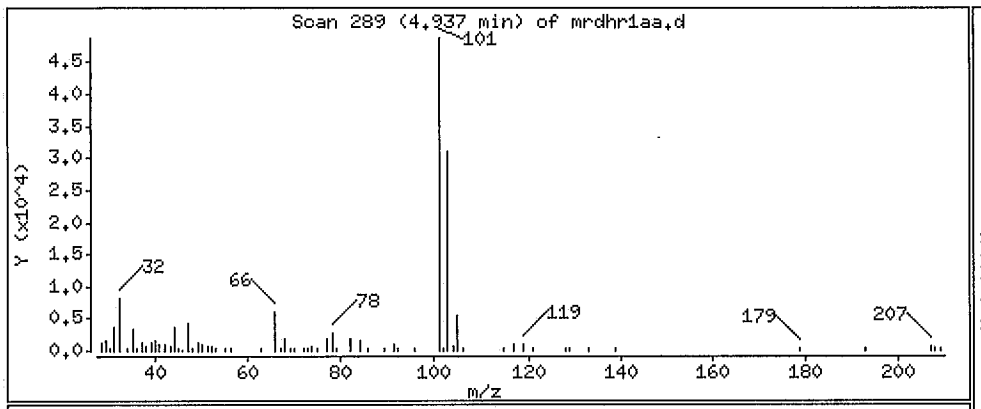
Operator: 7126

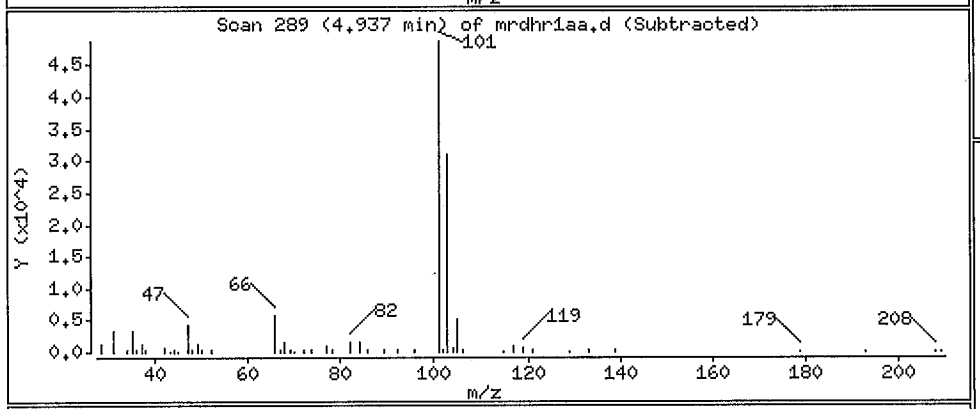
Column phase: Rtx-5

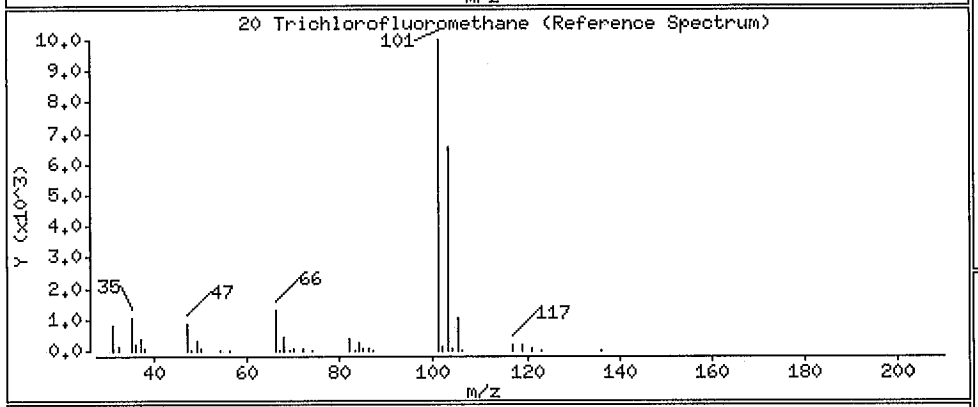
Column diameter: 0.32

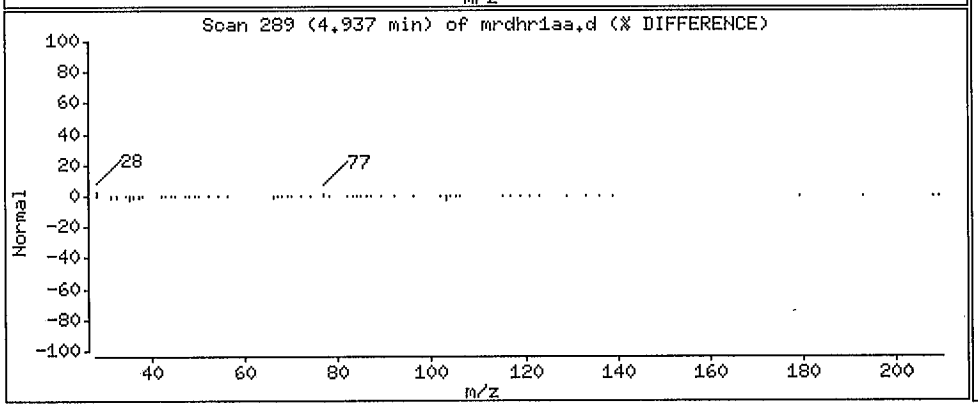
20 Trichlorofluoromethane

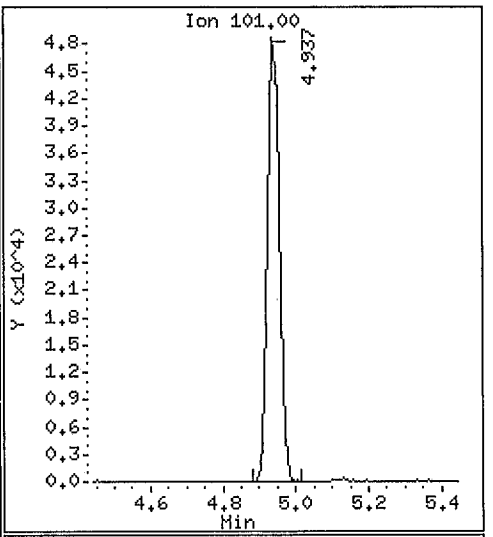
Concentration: 0.1805 ppb(v/v)

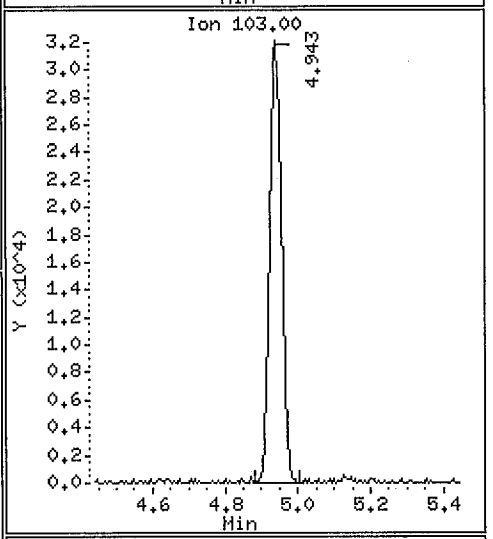


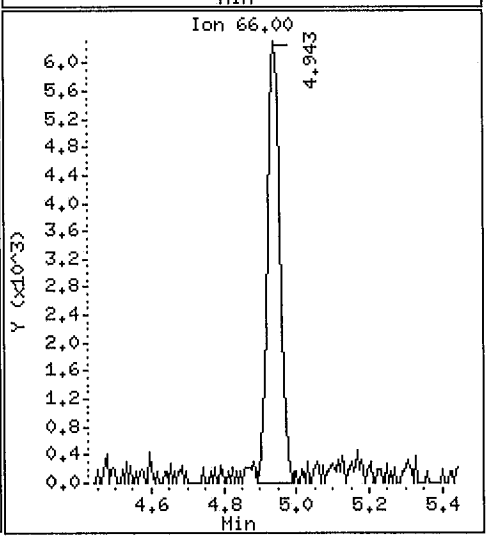












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

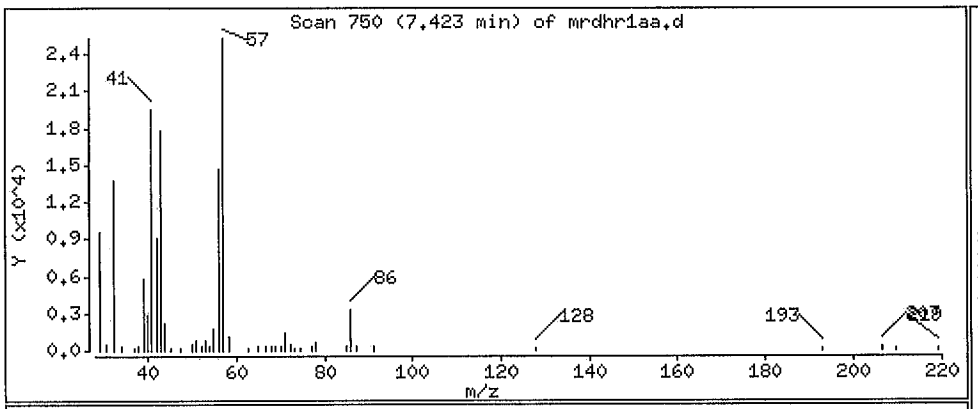
Operator: 7126

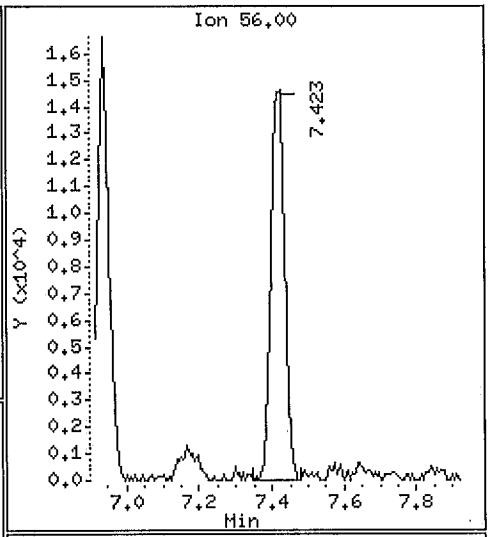
Column phase: Rtx-5

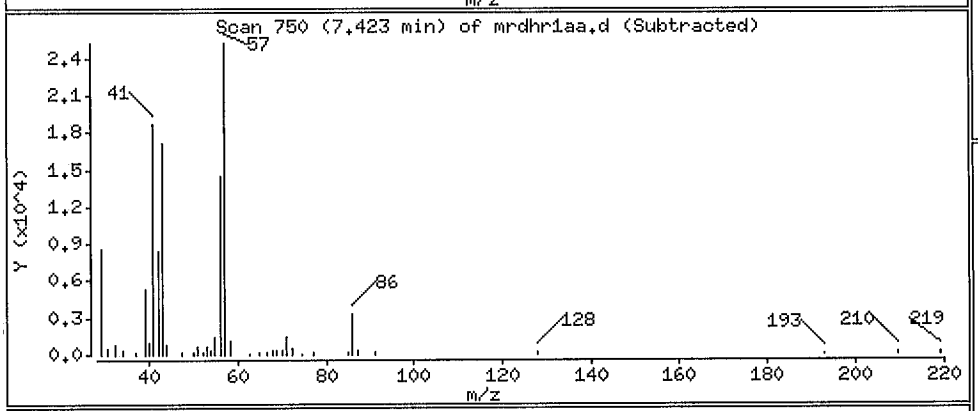
Column diameter: 0.32

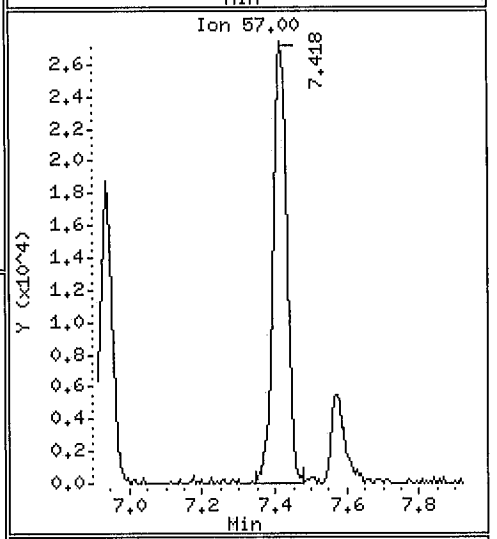
40 Hexane

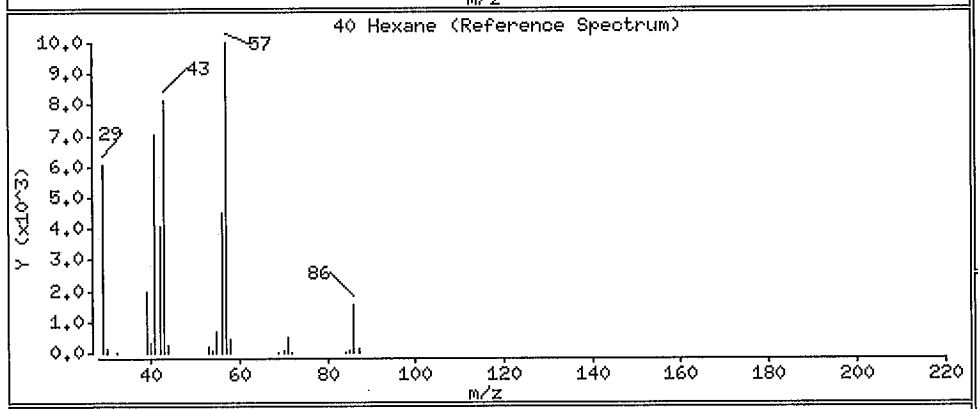
Concentration: 0.2070 ppb(v/v)

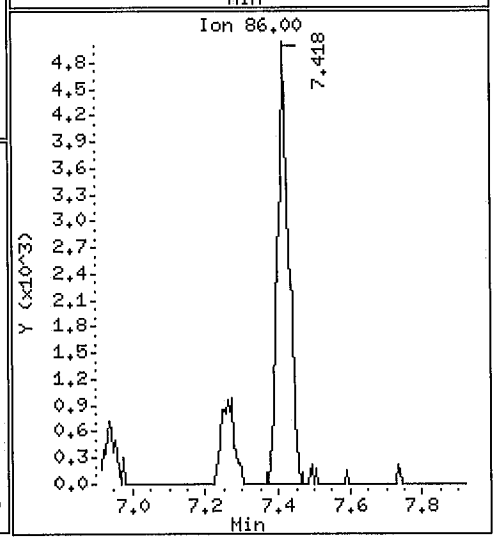


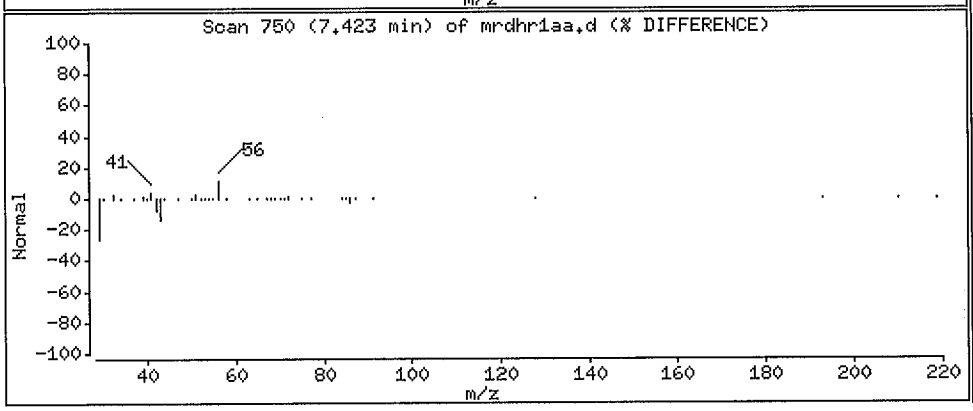












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

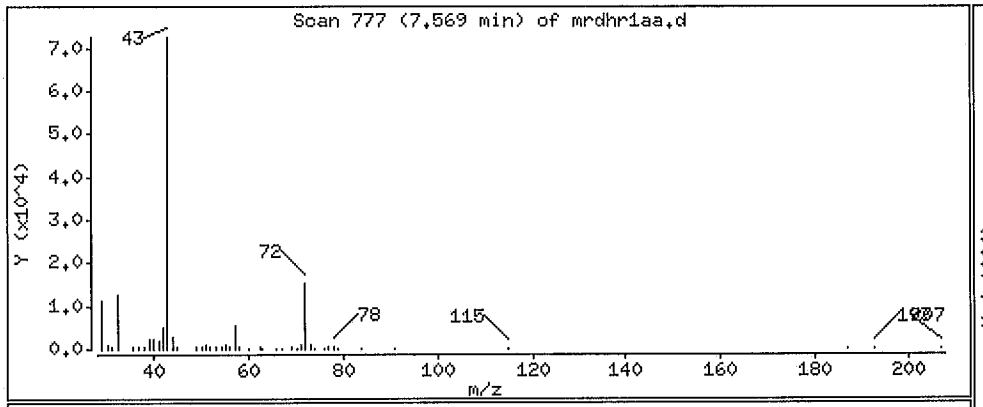
Operator: 7126

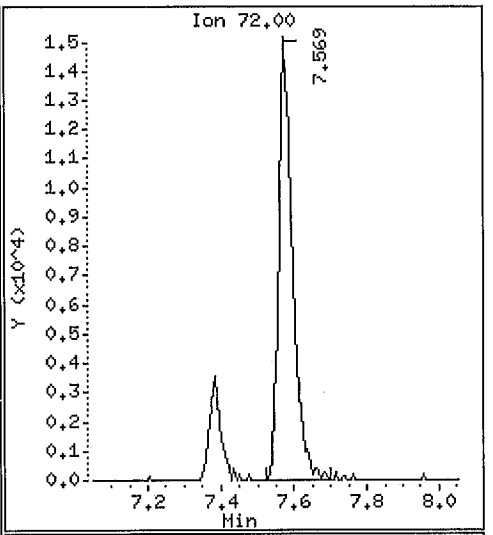
Column phase: Rtx-5

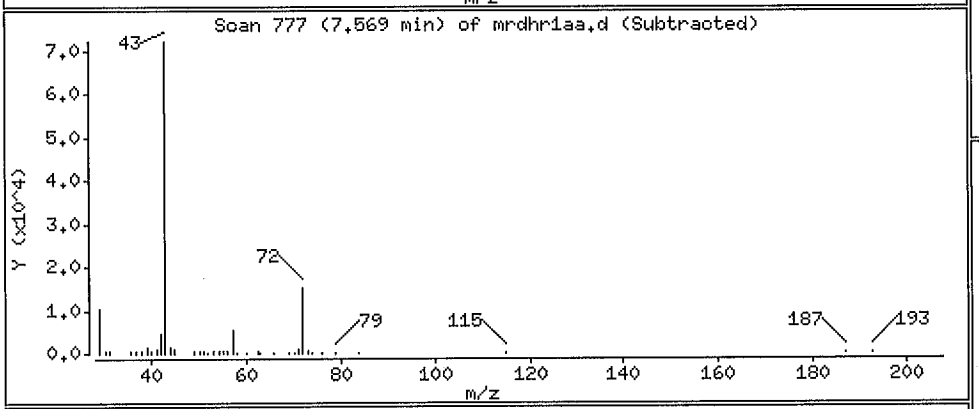
Column diameter: 0.32

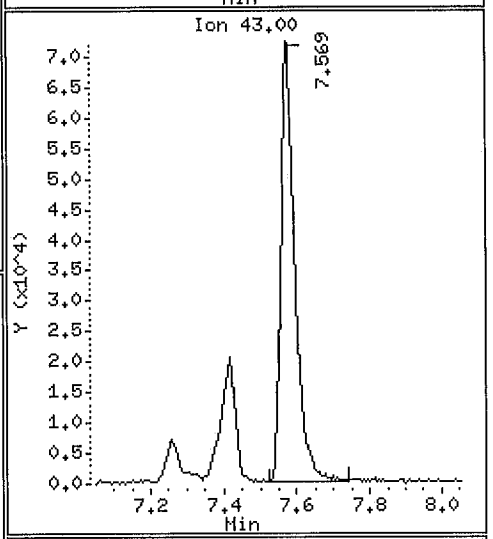
39 2-Butanone

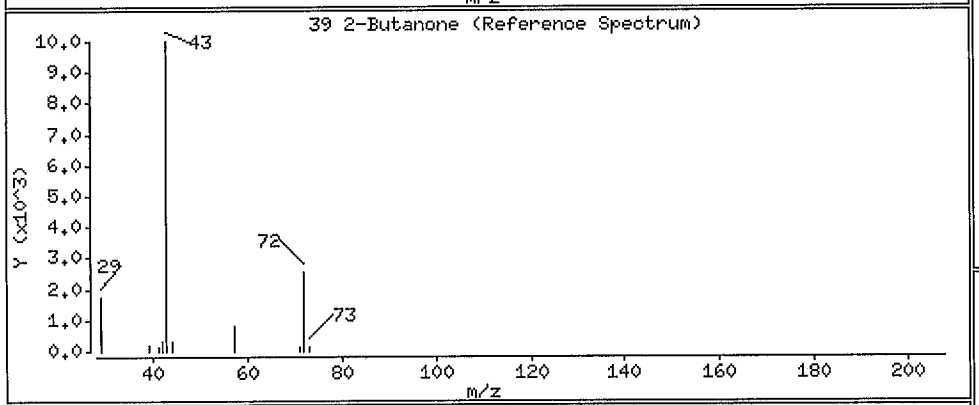
Concentration: 0.4995 ppb(v/v)

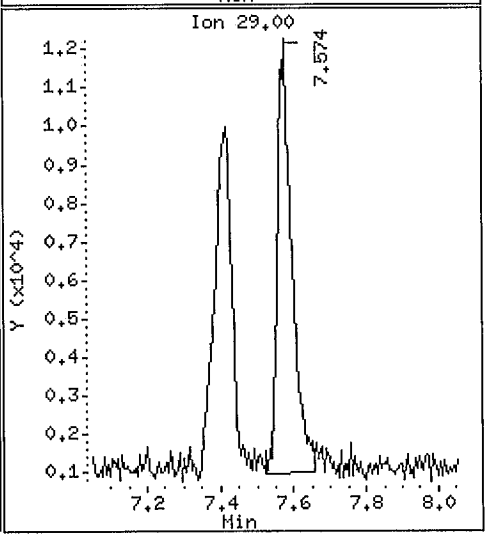


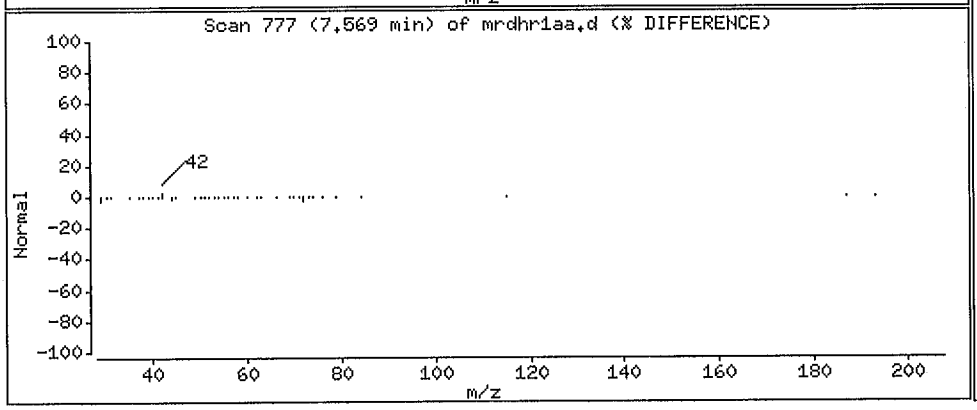












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

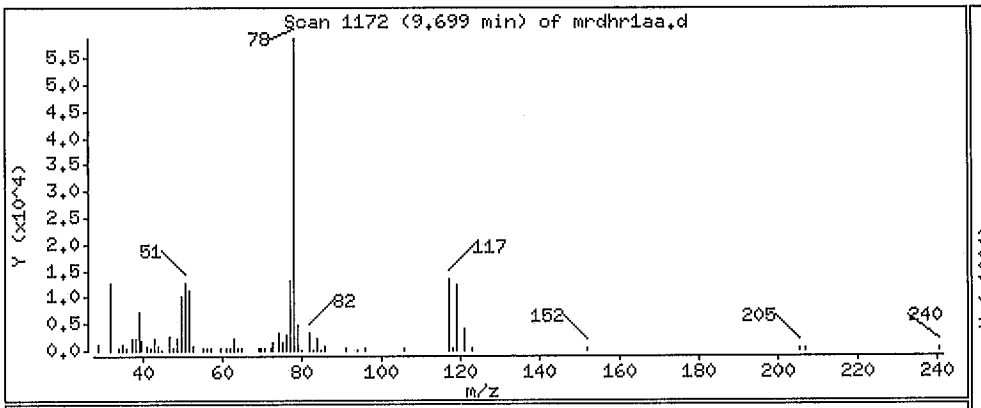
Operator: 7126

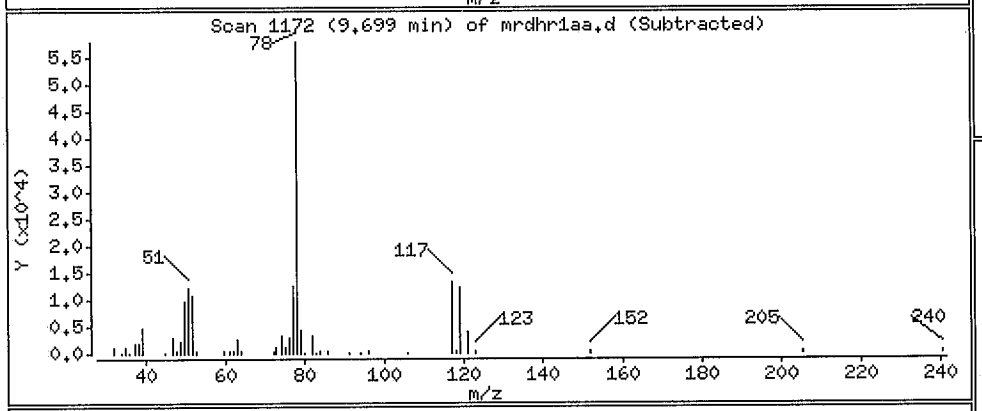
Column phase: Rtx-5

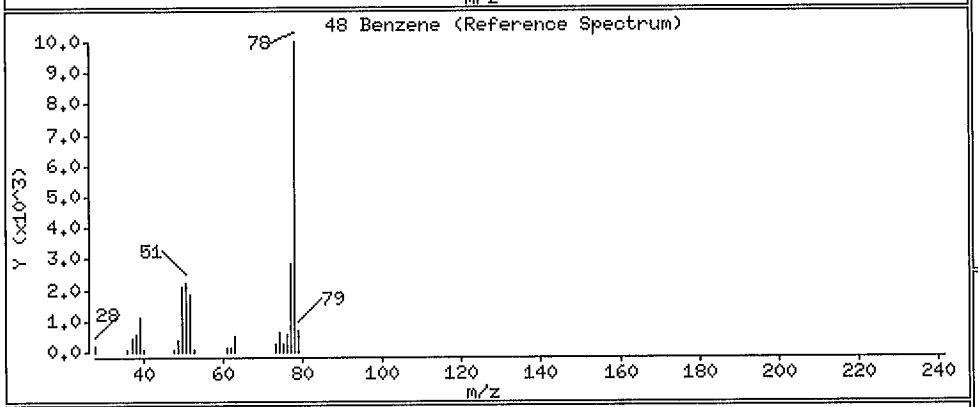
Column diameter: 0.32

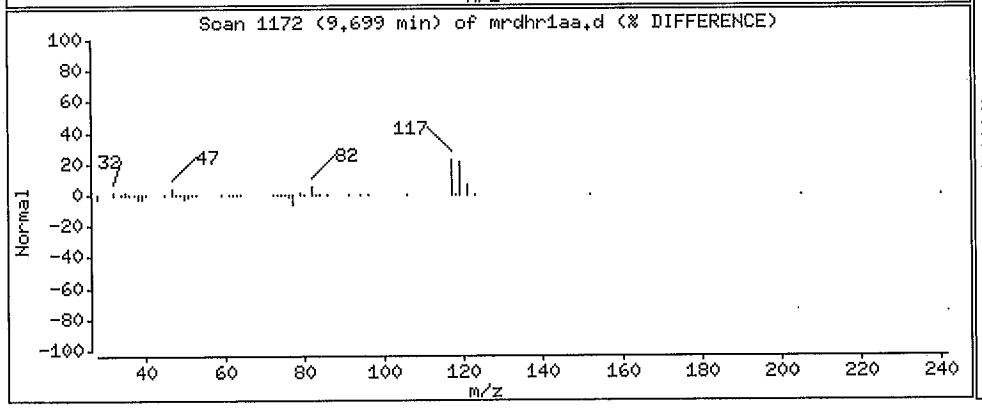
48 Benzene

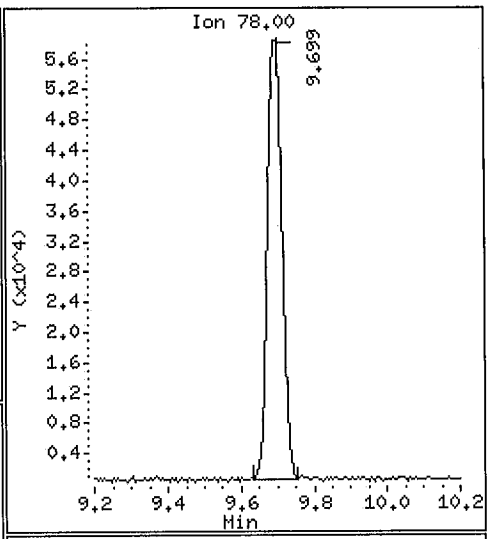
Concentration: 0.2719 ppb(v/v)

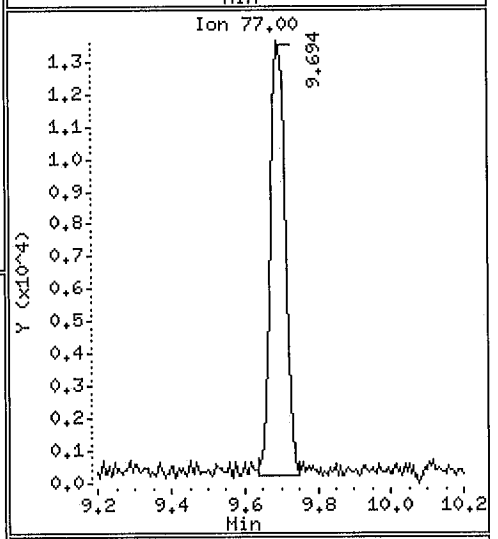


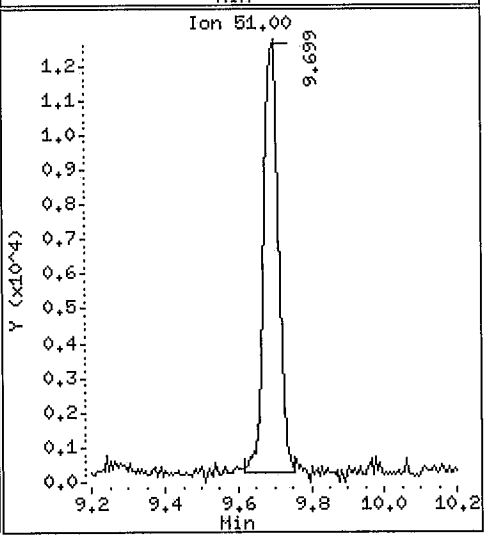












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

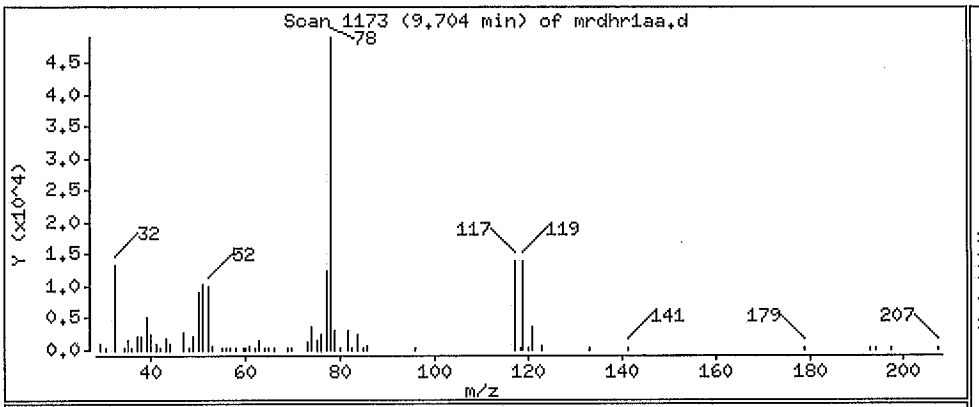
Operator: 7126

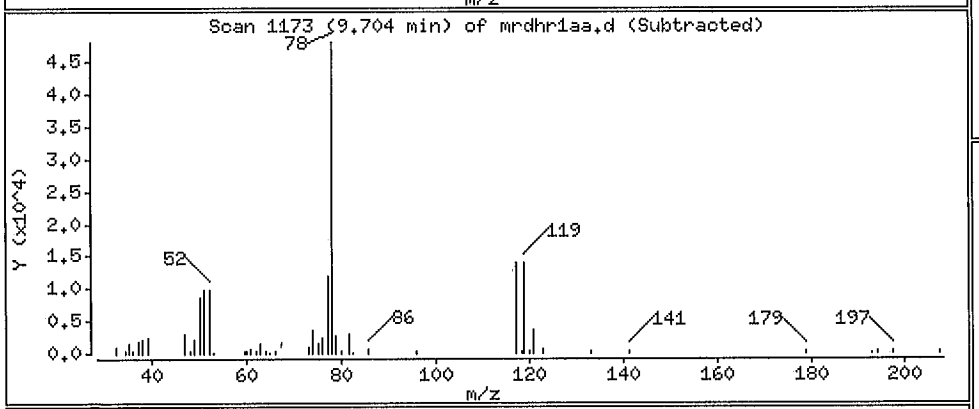
Column phase: Rtx-5

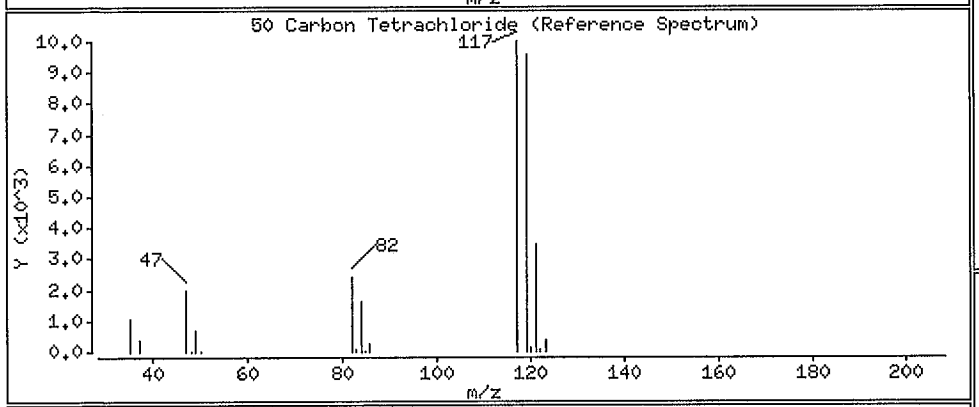
Column diameter: 0.32

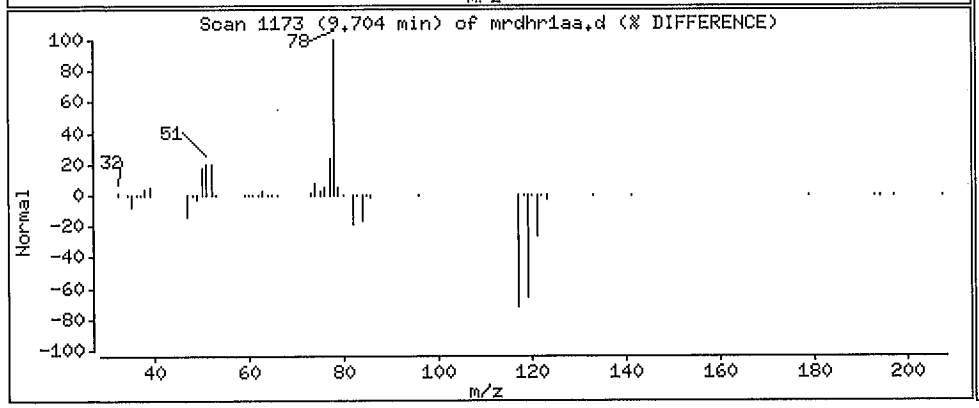
50 Carbon Tetrachloride

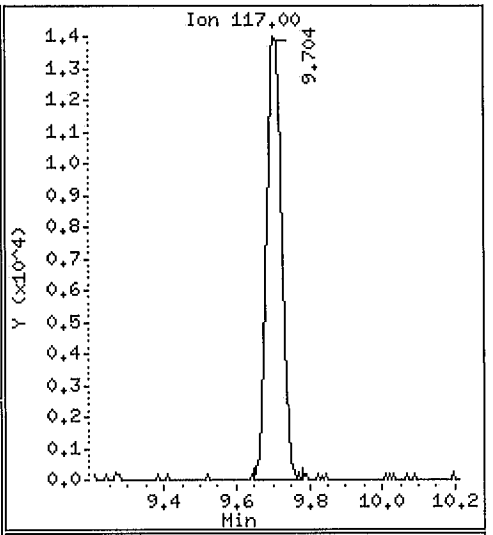
Concentration: 0.07875 ppb(v/v)

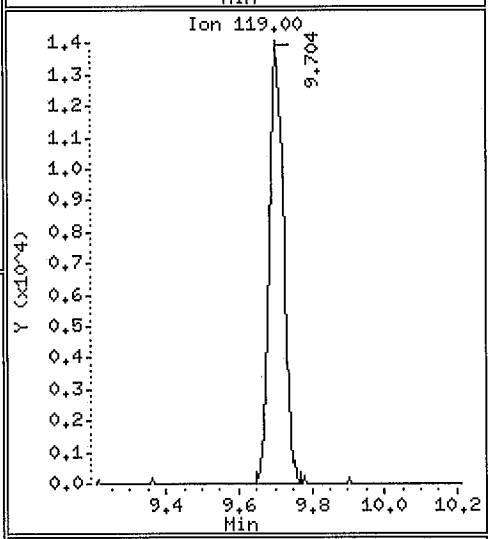


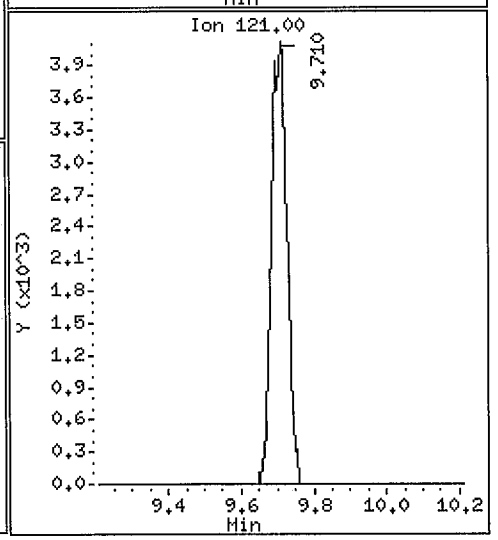












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

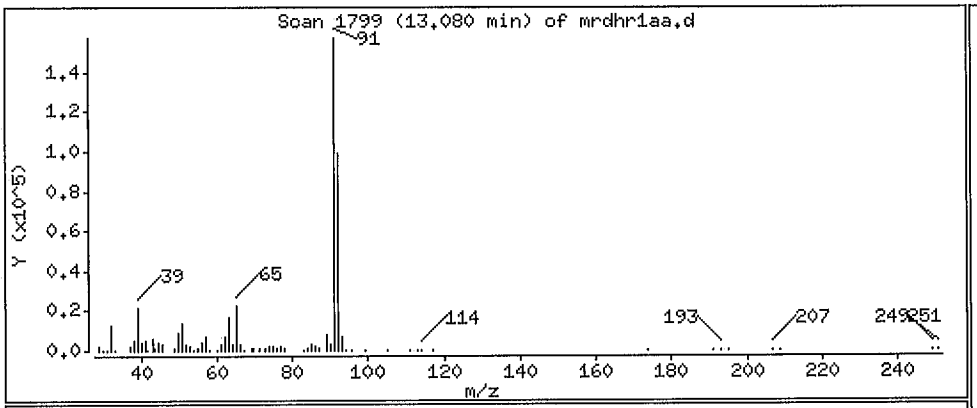
Operator: 7126

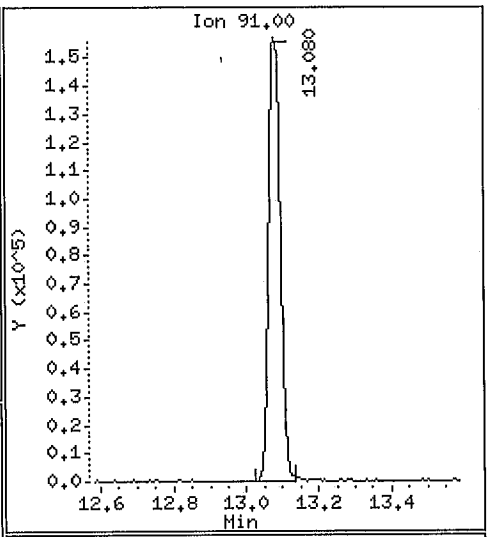
Column phase: Rtx-5

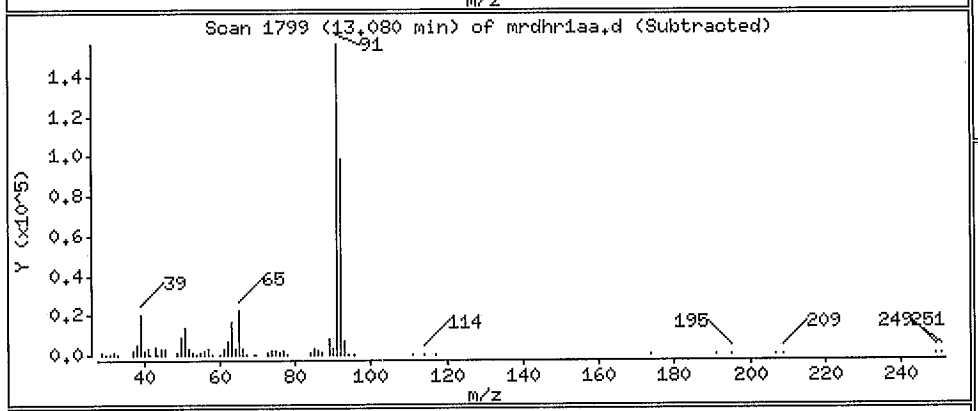
Column diameter: 0.32

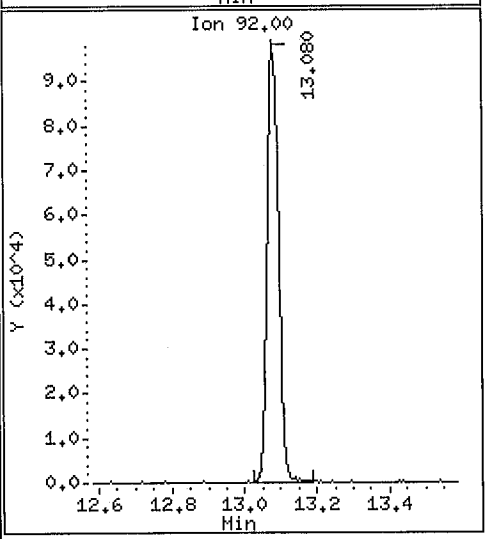
65 Toluene

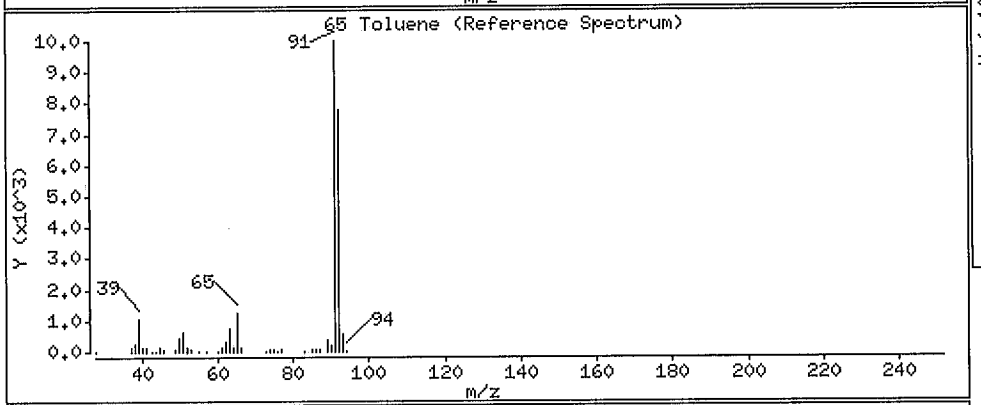
Concentration: 0.4995 ppb(v/v)

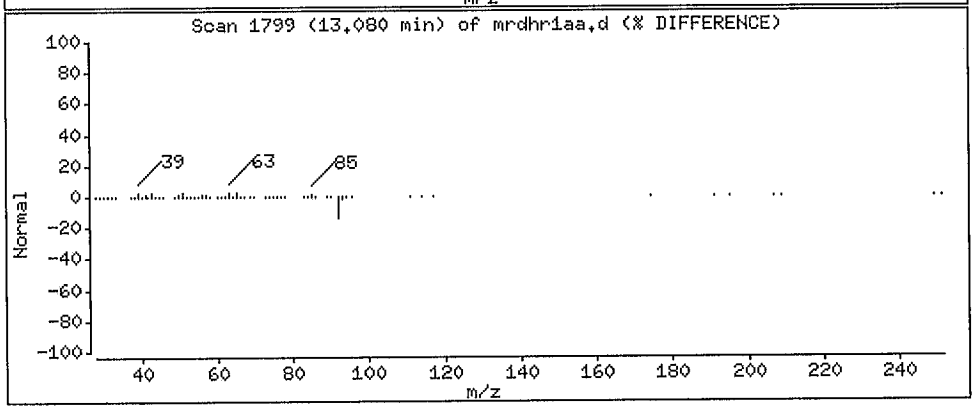












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

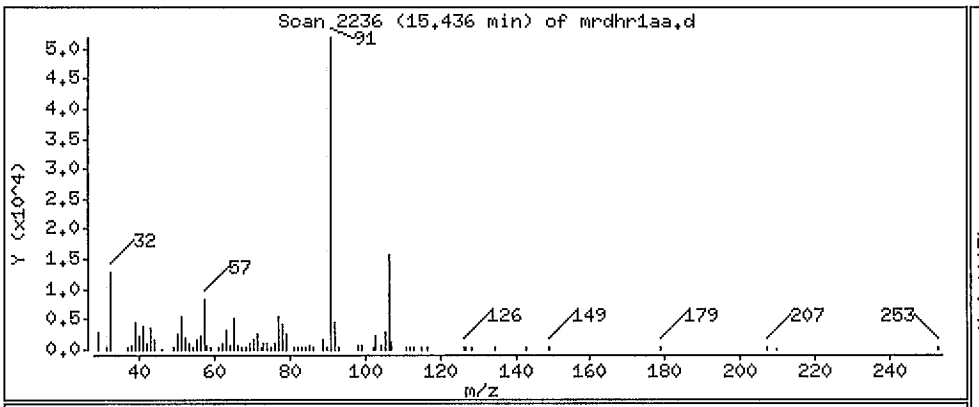
Operator: 7126

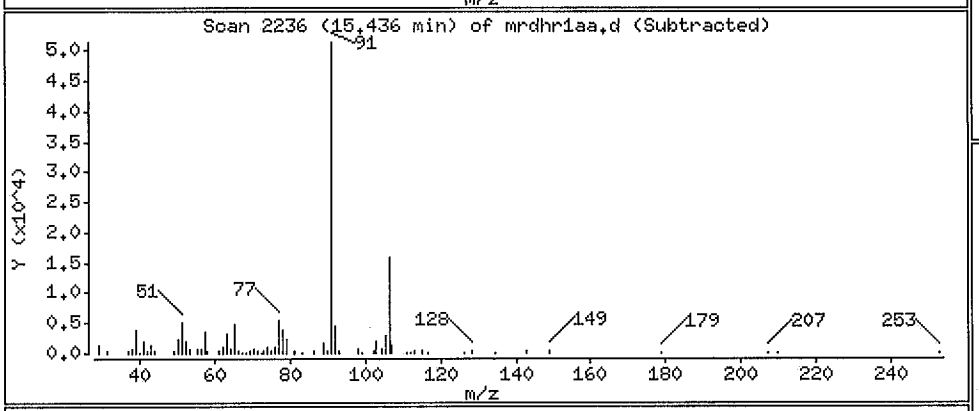
Column phase: Rtx-5

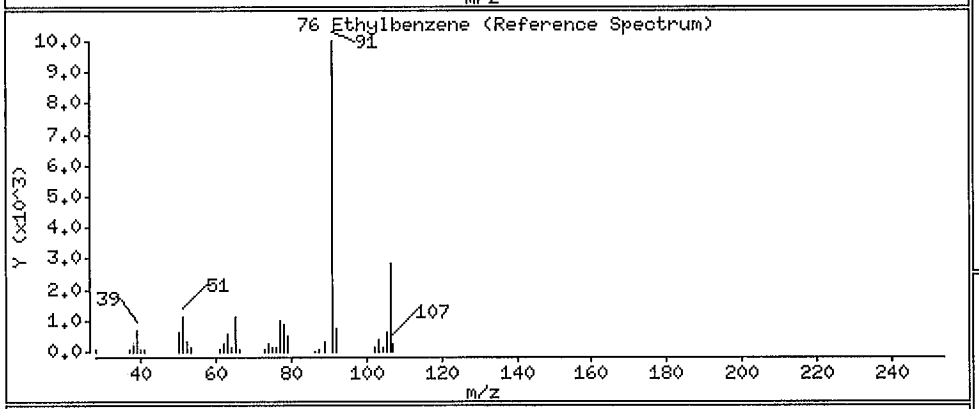
Column diameter: 0.32

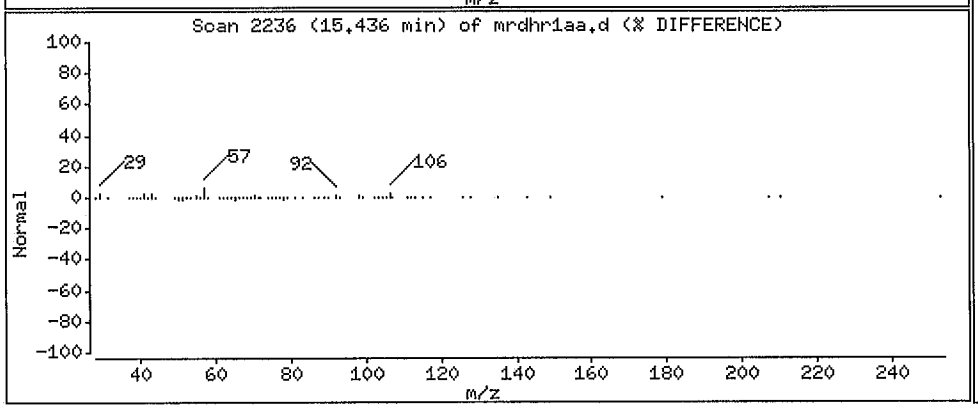
76 Ethylbenzene

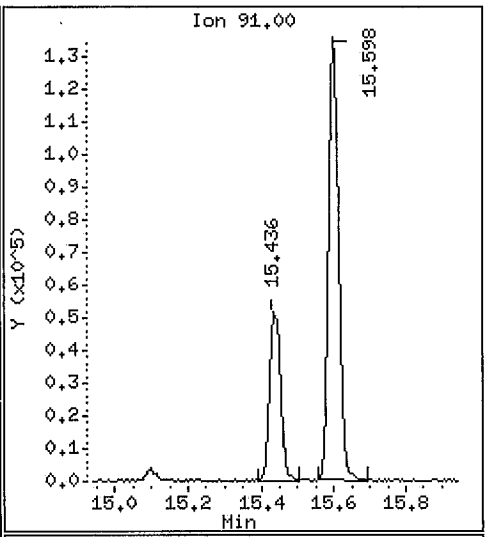
Concentration: 0.1170 ppb(v/v)

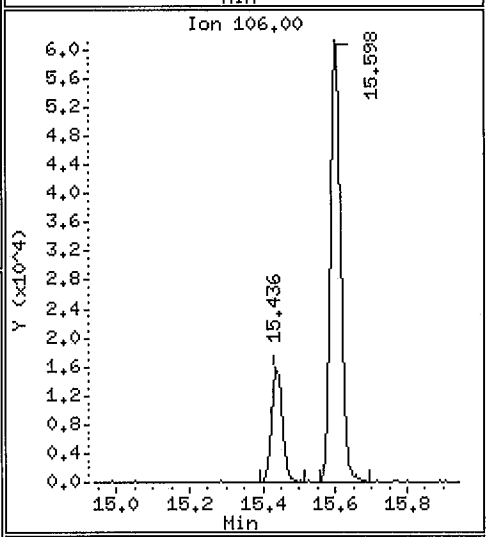


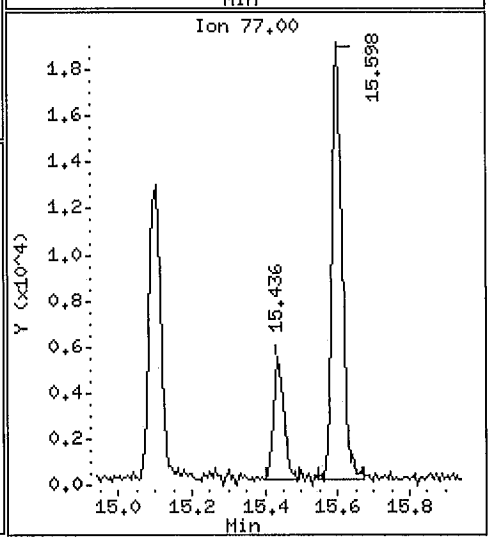












Data File: /var/chem/goms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

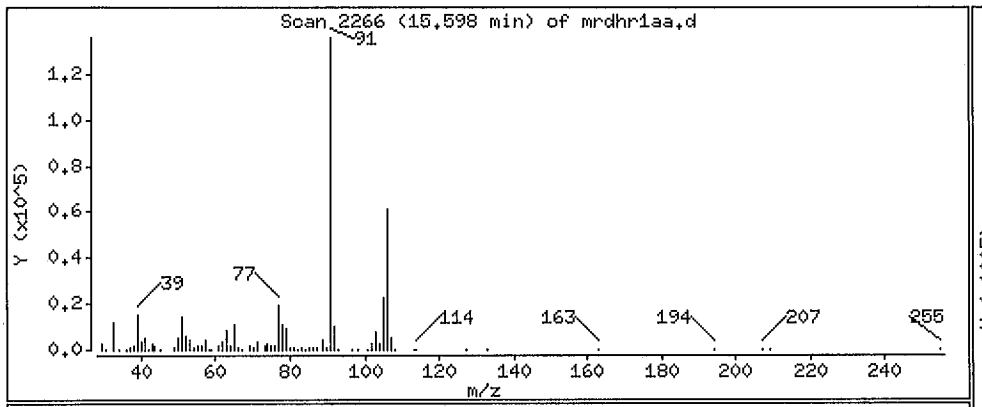
Operator: 7126

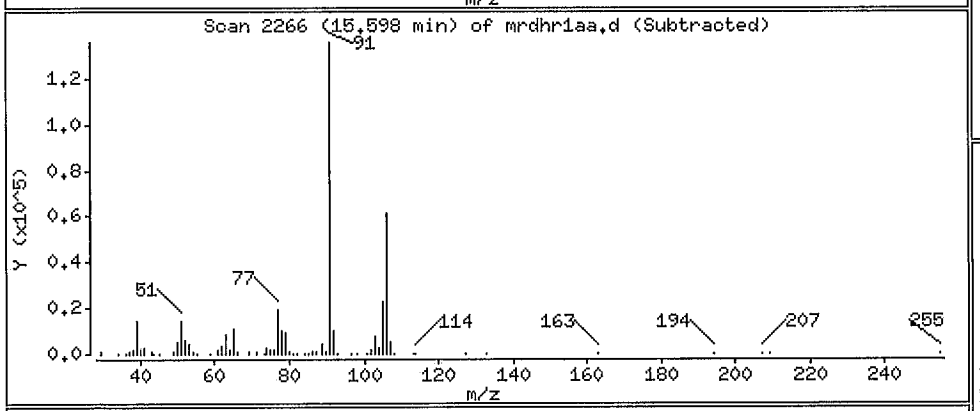
Column phase: Rtx-5

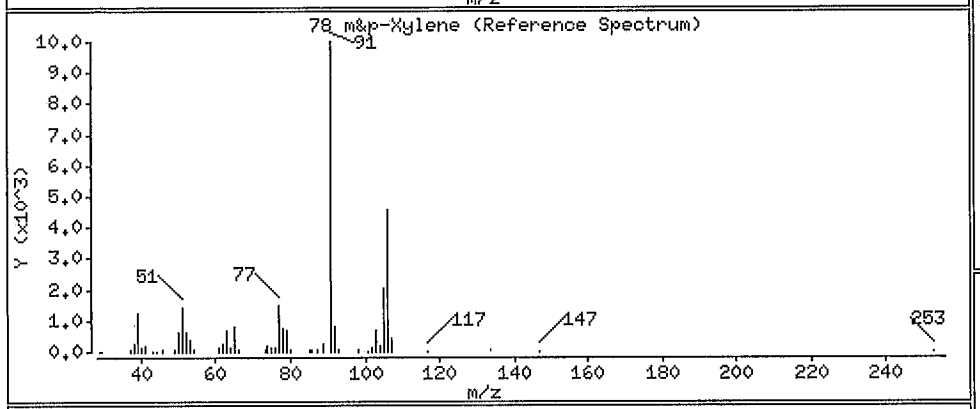
Column diameter: 0.32

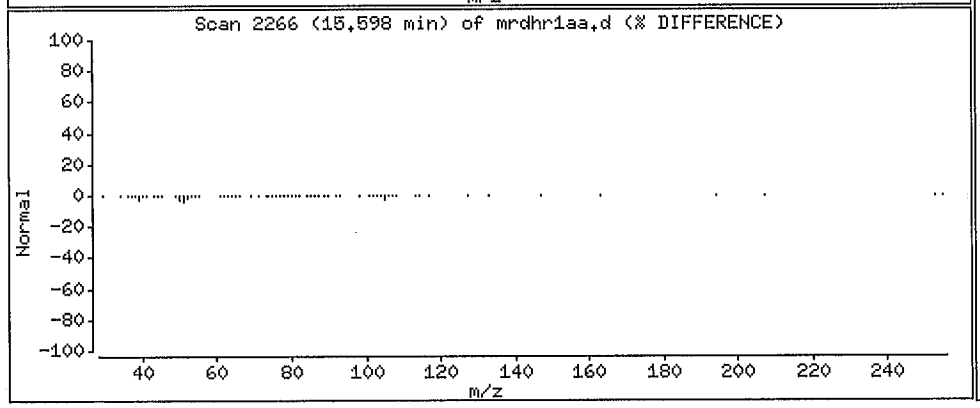
78 m&p-Xylene

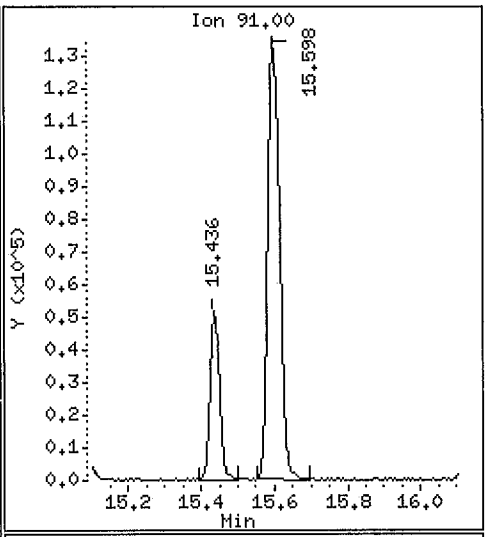
Concentration: 0.4328 ppb(v/v)

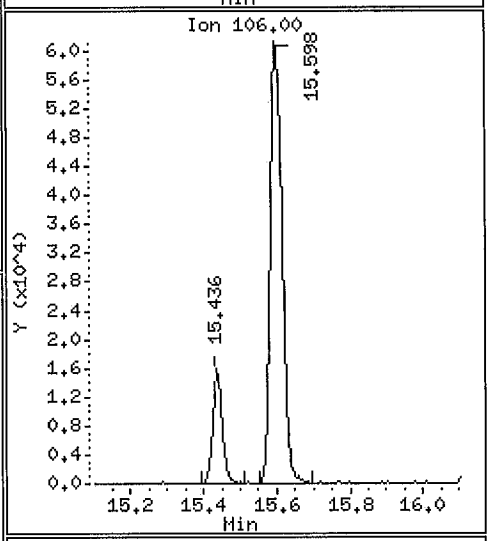


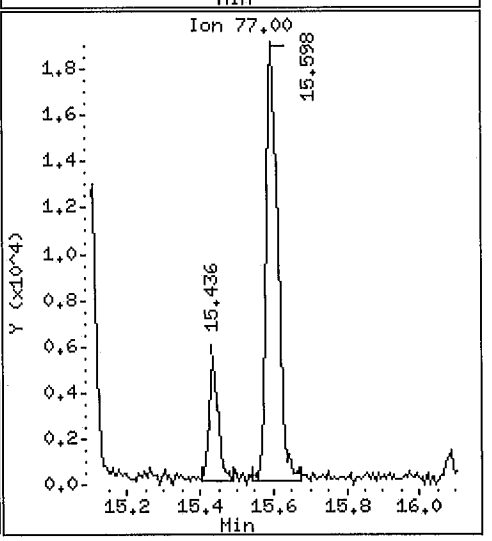












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

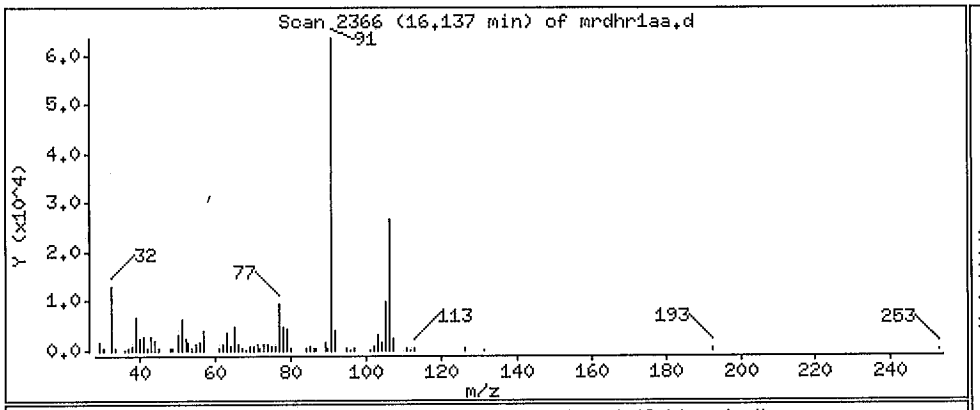
Operator: 7126

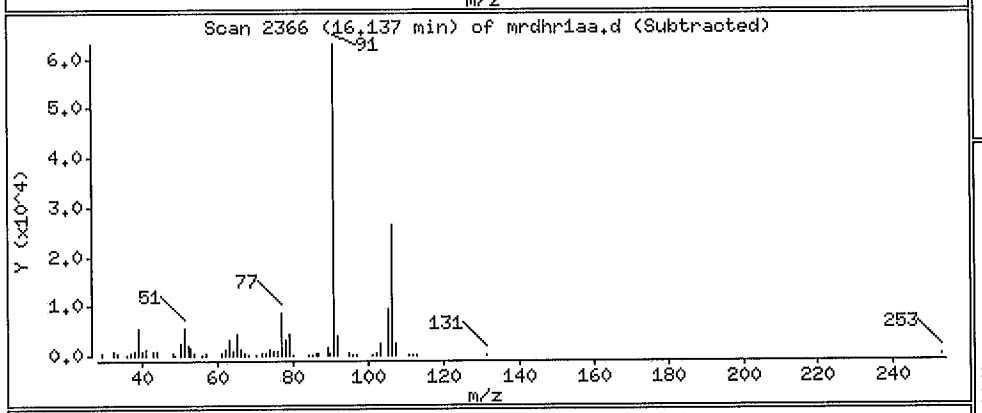
Column phase: Rtx-5

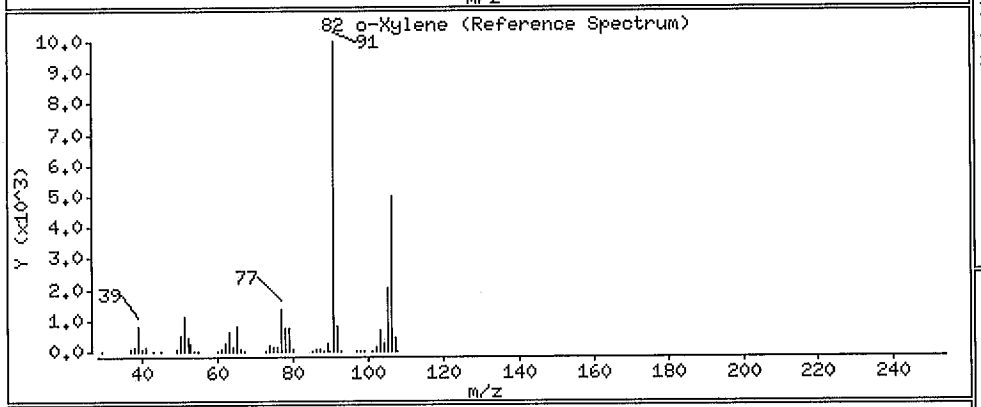
Column diameter: 0.32

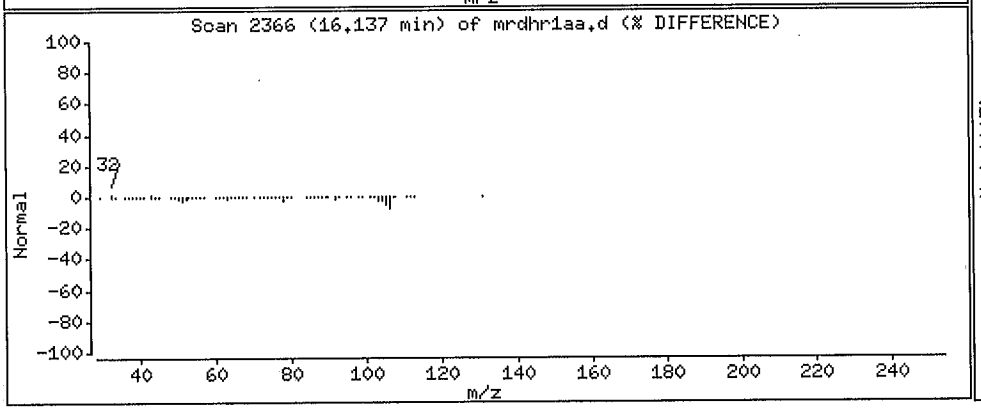
82 o-Xylene

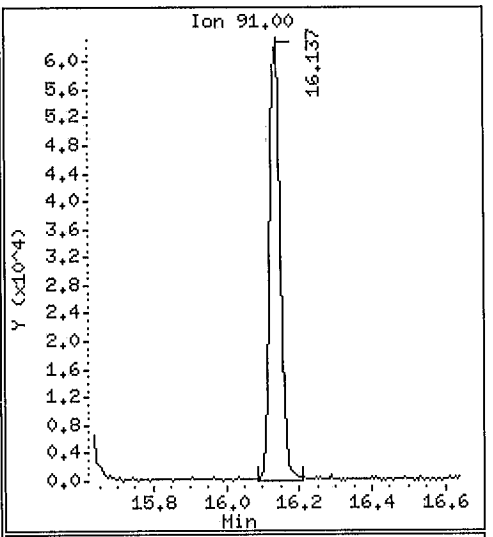
Concentration: 0.1719 ppb(v/v)

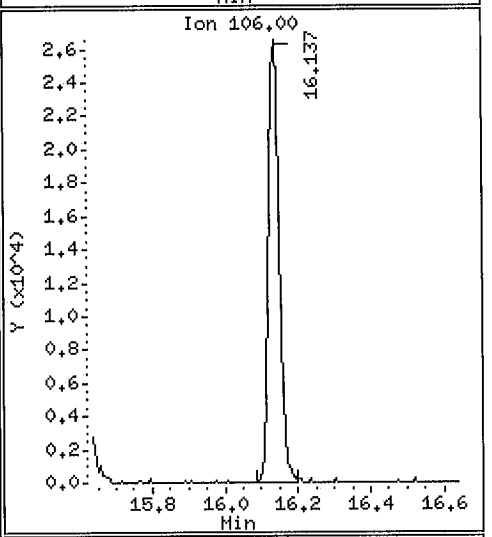


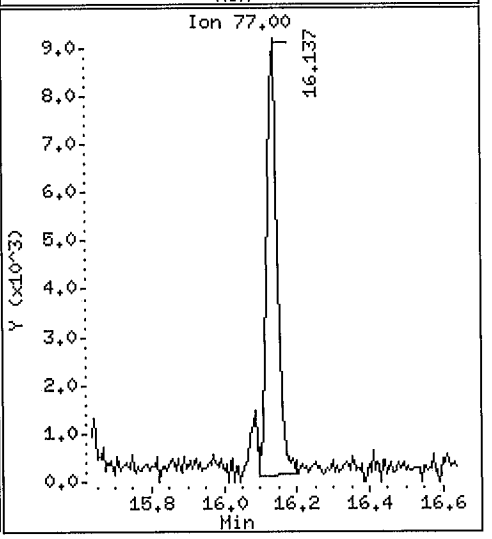












Data File: /var/chem/gcms/mg.i/G031312.b/mrdhr1aa.d

Date : 14-MAR-2012 00:05

Client ID: HOUSE # 3 INDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

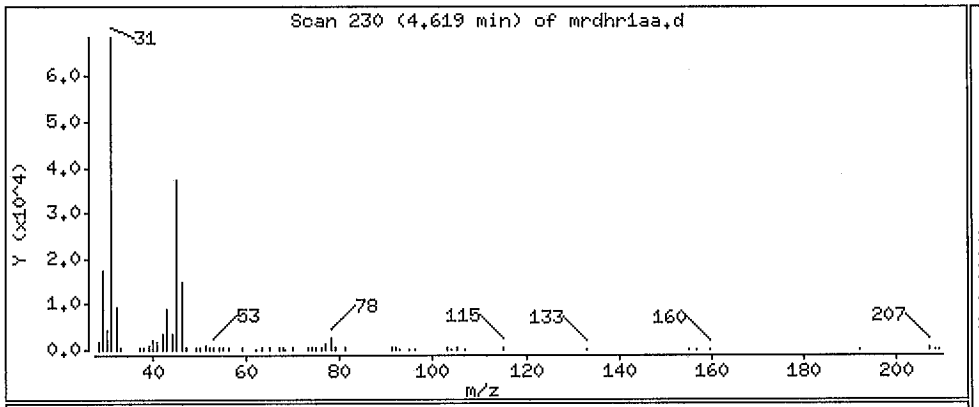
Operator: 7126

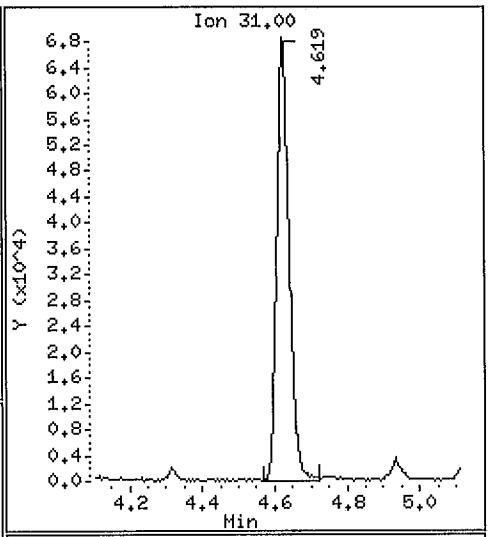
Column phase: Rtx-5

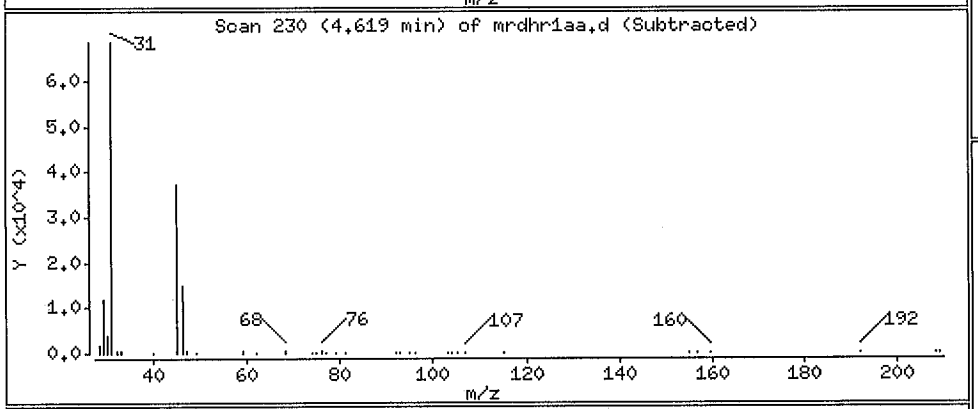
Column diameter: 0.32

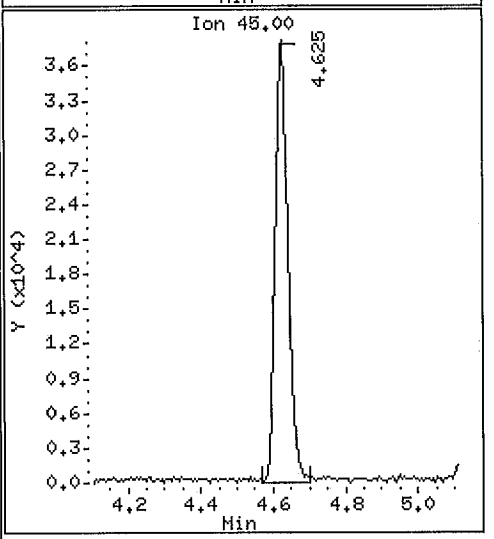
17 ^ ethanol

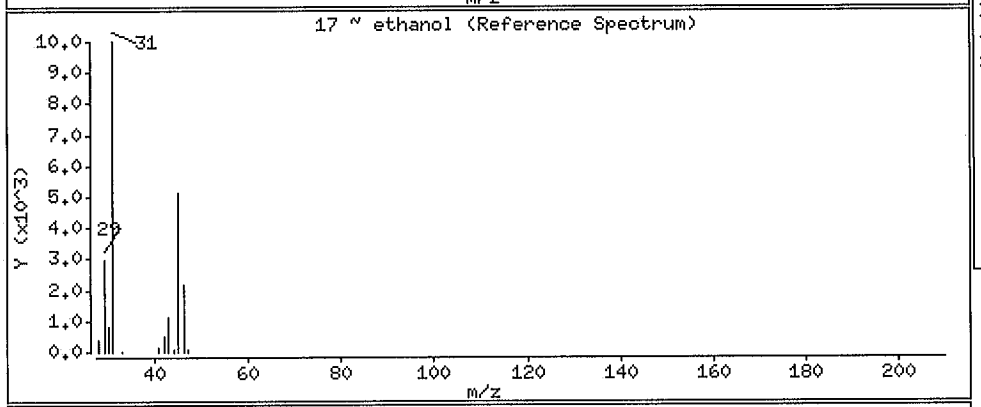
Concentration: 2.901 ppb(v/v)

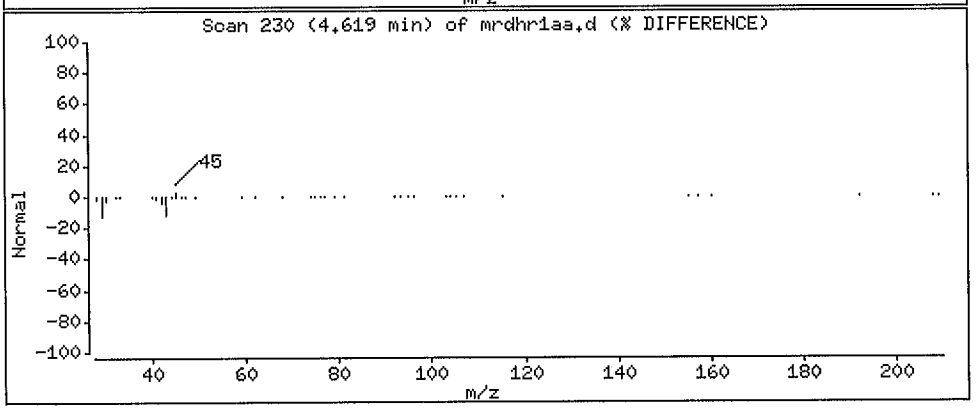












New York State D.E.C.

Client Sample ID: HOUSE # 3 OUTDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 010 **Work Order #** MRDHT1AA **Matrix.....:** AIR

Date Sampled...: 03/09/2012 **Date Received..:** 03/10/2012
Prep Date.....: 03/13/2012 **Analysis Date...** 03/14/2012
Prep Batch #.....: 2073128
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**0.37**	**0.32**	**1.1**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.24**	**0.080**	**0.77**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.089**	**0.040**	**0.56**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	**0.63**	**0.20**	**1.3**	**0.41**
cis-1,2-Dichloroethene	**0.14**	**0.080**	**0.54**	**0.32**
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.61**	**0.080**	**3.0**	**0.40**
Ethanol	**1.8**	**0.80**	**3.4**	**1.5**
Ethylbenzene	ND	0.080	ND	0.35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	ND	0.20	ND	0.70
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 3 OUTDOOR

GC/MS Volatiles

Lot-Sample # H2C130401 - 010 **Work Order #** MRDHT1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.31**	**0.080**	**1.2**	**0.30**
m-Xylene & p-Xylene	**0.15**	**0.080**	**0.63**	**0.35**
o-Xylene	ND	0.080	ND	0.35
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.18**	**0.080**	**1.0**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	114	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d
Report Date: 14-Mar-2012 13:26

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d
Lab Smp Id: MRDHT1AA Client Smp ID: HOUSE # 3 OUTDOOR
Inj Date : 14-MAR-2012 01:01
Operator : 7126 Inst ID: mg.i
Smp Info : ,,0,,,
Misc Info : G031312,TO15,nysdec.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 14-Mar-2012 13:23 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.162	8.168	(1.000)	440555	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.281	10.281	(1.000)	2170606	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.102	15.102	(1.000)	2006545	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.774	16.779	(1.111)	1649838	4.54074	4.541
	7 Dichlorodifluoromethane	85	3.724	3.724	(0.456)	257794	0.60989	0.6099
	8 Chloromethane	52	3.875	3.875	(0.475)	25803	0.63128	0.6313
	20 Trichlorofluoromethane	101	4.938	4.943	(0.605)	78324	0.18462	0.1846
	28 tert-butanol	59	5.827	5.736	(0.714)	2754	0.01588	0.01588
	39 2-Butanone	72	7.580	7.553	(0.929)	22323	0.37399	0.3740
	41 cis 1,2-Dichloroethene	96	7.860	7.866	(0.963)	19726	0.13636	0.1364
	48 Benzene	78	9.699	9.699	(0.943)	98189	0.24065	0.2406
	50 Carbon Tetrachloride	117	9.710	9.710	(0.944)	31243	0.08889	0.08889
	65 Toluene	91	13.080	13.085	(0.866)	149654	0.30615	0.3062
	78 m&p-Xylene	91	15.598	15.604	(1.033)	69912	0.14569	0.1457
	17 ~ ethanol	31	4.625	4.609	(0.567)	74689	1.82651	1.826

Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d
Report Date: 14-Mar-2012 13:26

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: mrdht1aa.d
Lab Smp Id: MRDHT1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: HOUSE # 3 OUTDOOR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	440555	-21.49
2 1,4-Difluorobenze	2909107	1730919	4087295	2170606	-25.39
3 Chlorobenzene-d5	2830968	1684426	3977510	2006545	-29.12

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.16	-0.07
2 1,4-Difluorobenze	10.28	9.95	10.61	10.28	0.00
3 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d
Report Date: 14-Mar-2012 13:26

TestAmerica Knoxville

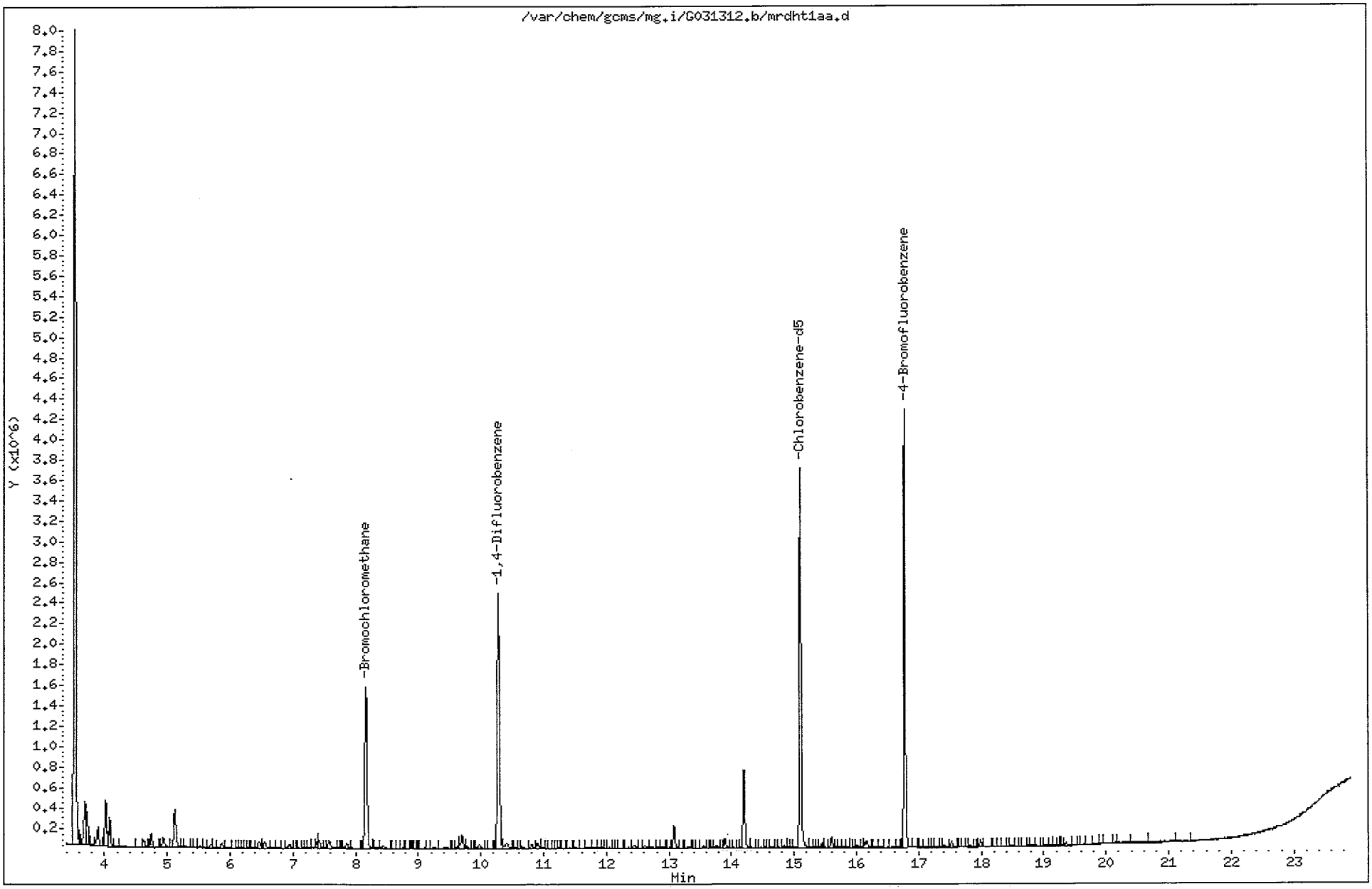
RECOVERY REPORT

Client Name: New York State D.E.C10-MAR-2012 00:00 Client SDG: H2C130401
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MRDHT1AA Client Smp ID: HOUSE # 3 OUTDOOR
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,nysdec.sub,,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.541	113.52	70-130

Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d
Date : 14-MAR-2012 01:01
Client ID: HOUSE # 3 OUTDOOR
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

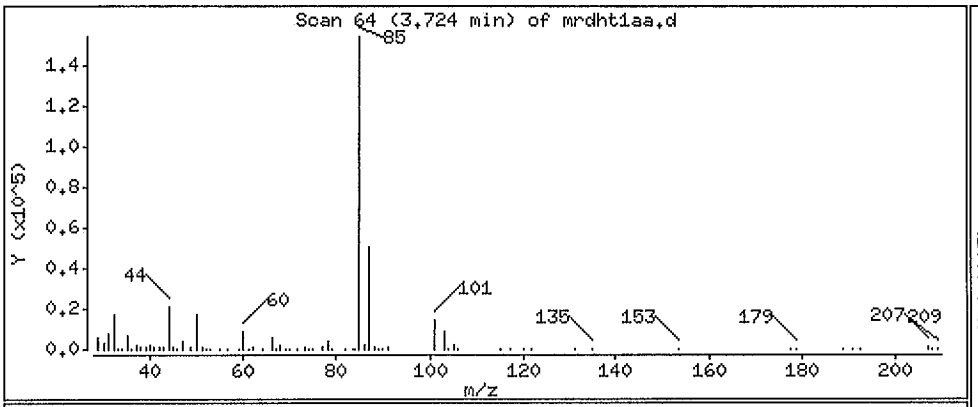
Operator: 7126

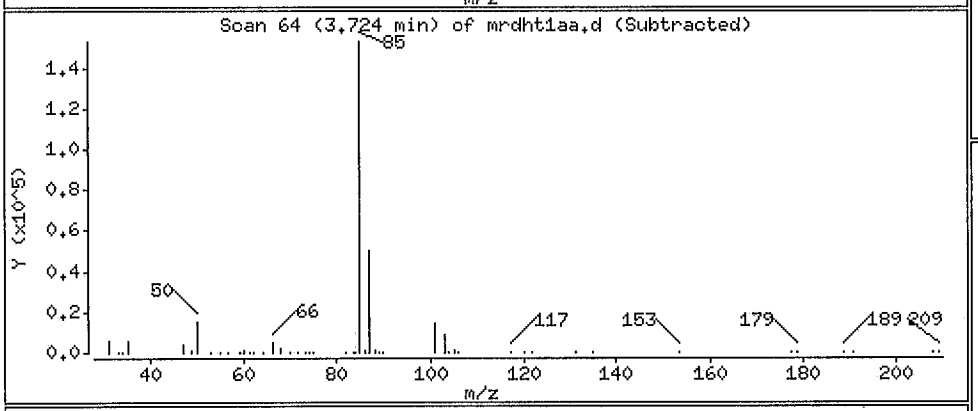
Column phase: Rtx-5

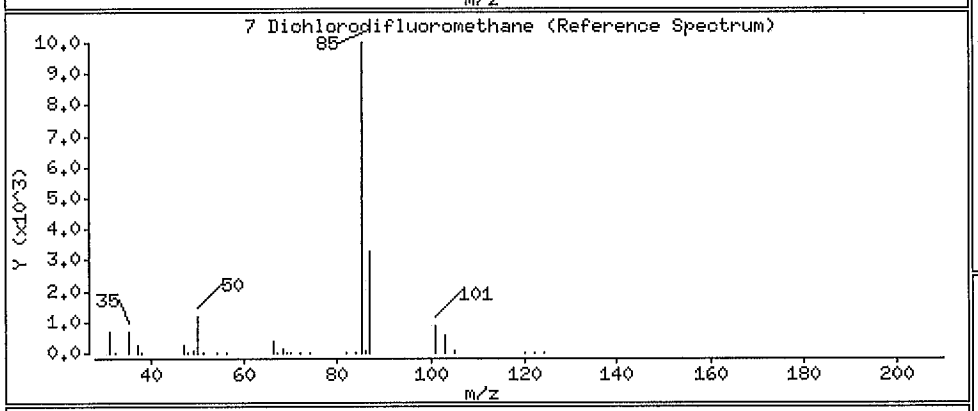
Column diameter: 0.32

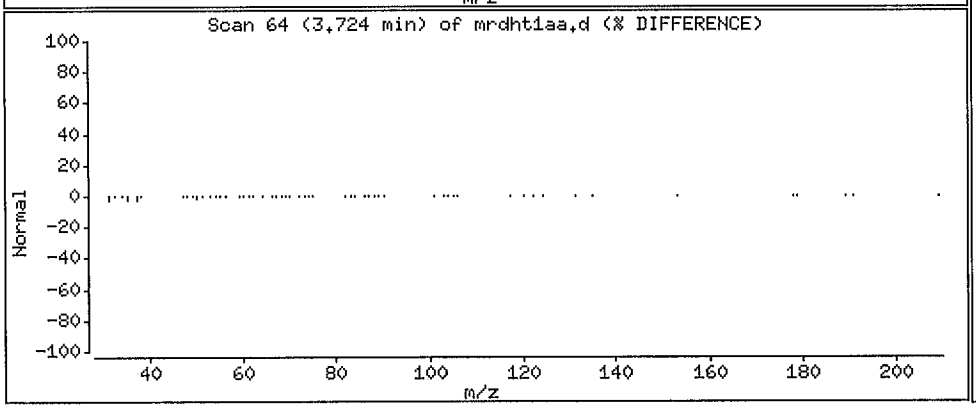
7 Dichlorodifluoromethane

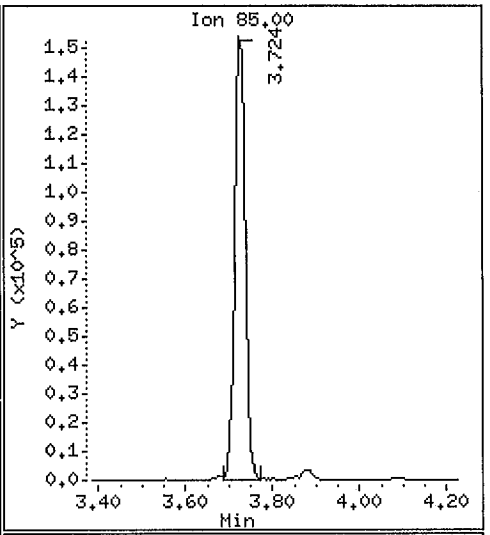
Concentration: 0.6099 ppb(v/v)

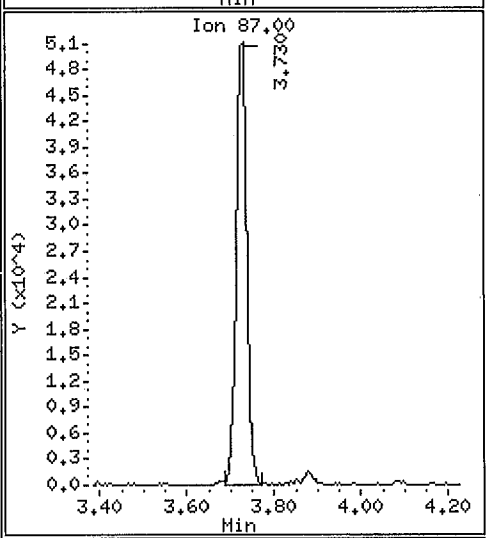


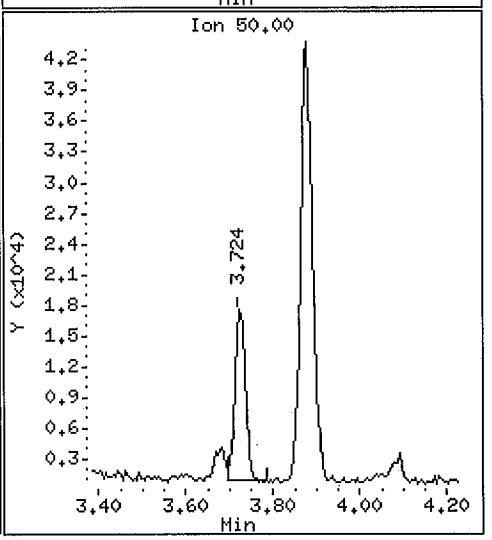












Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

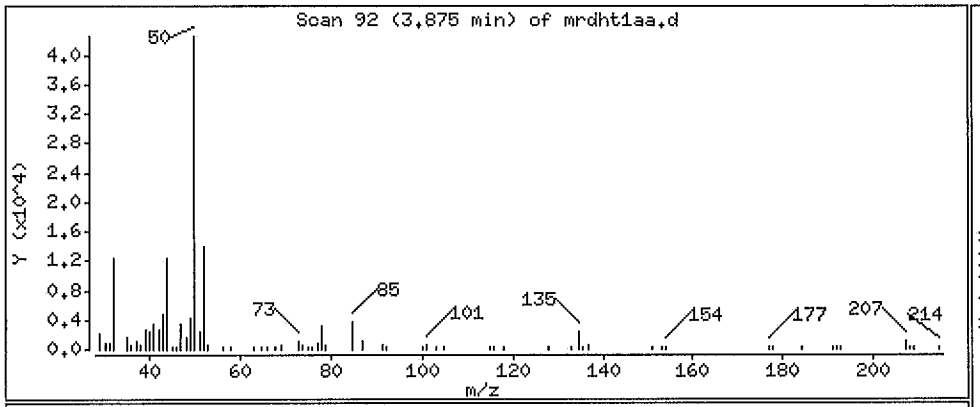
Operator: 7126

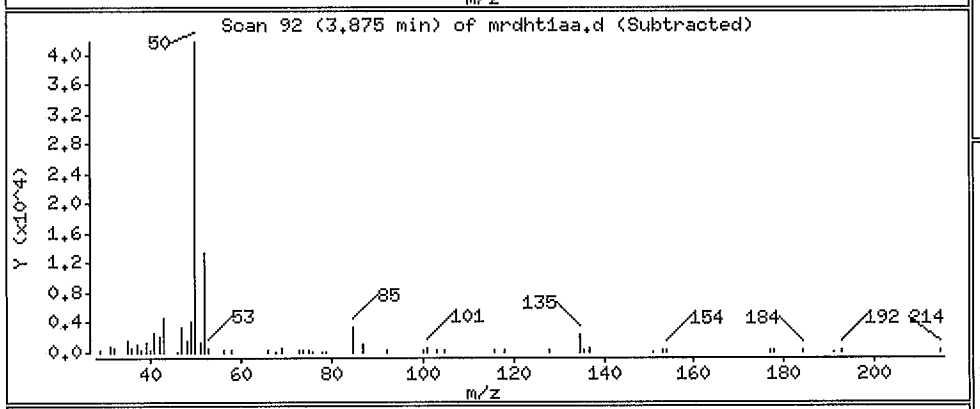
Column phase: Rtx-5

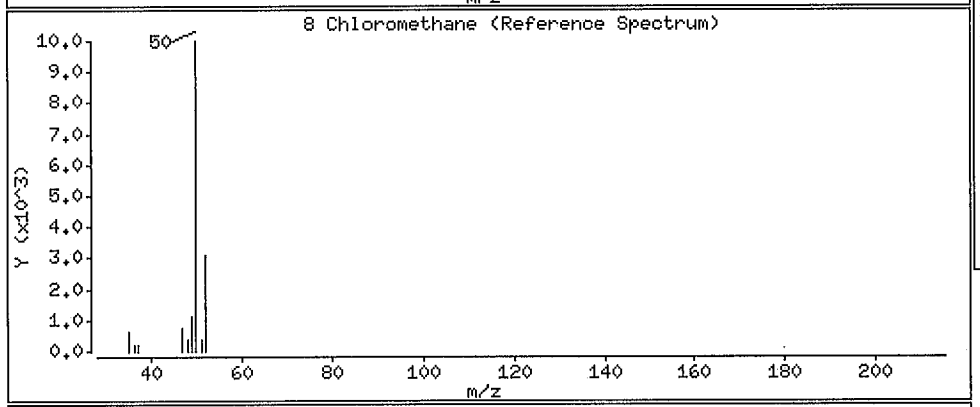
Column diameter: 0.32

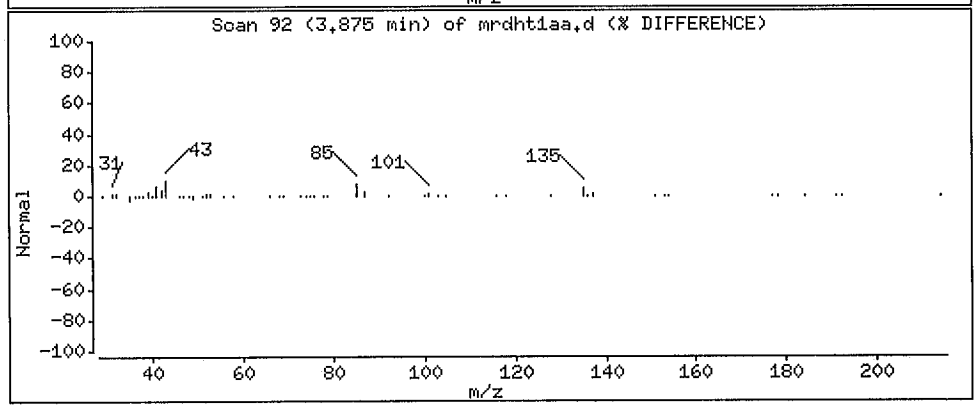
8 Chloromethane

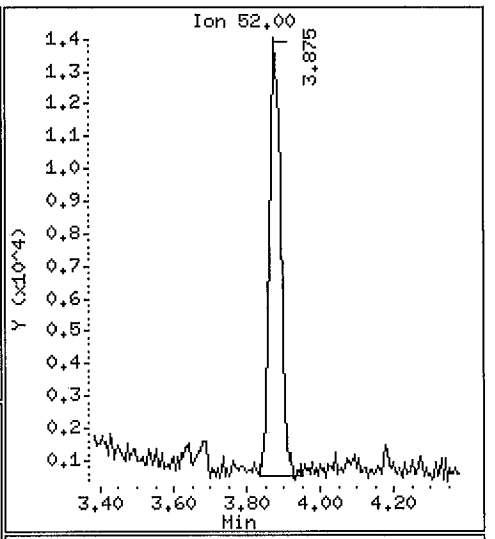
Concentration: 0.6313 ppb(v/v)

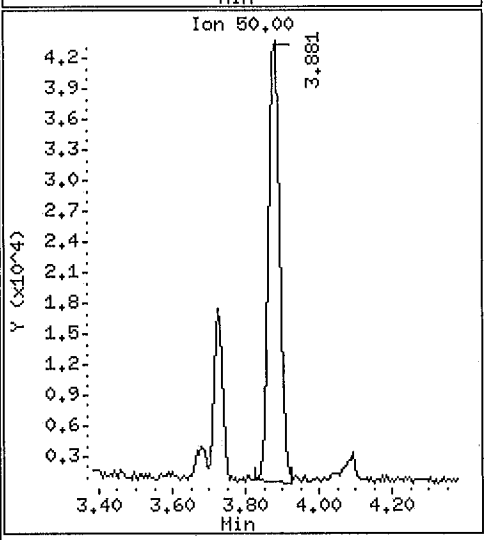












Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

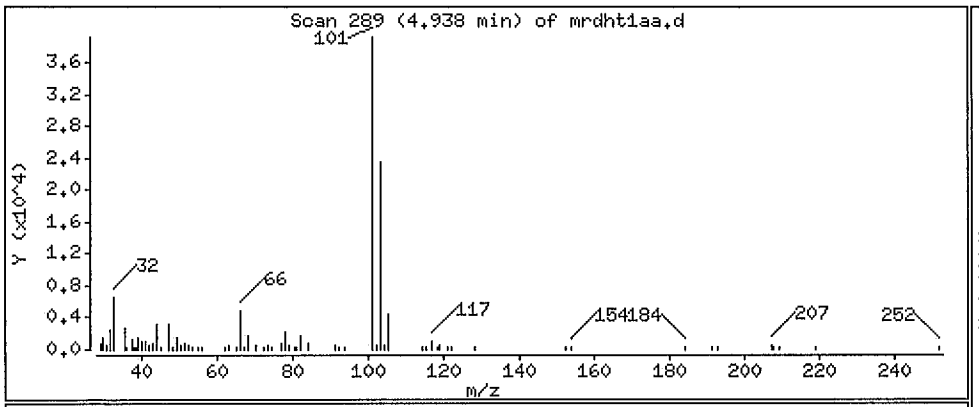
Operator: 7126

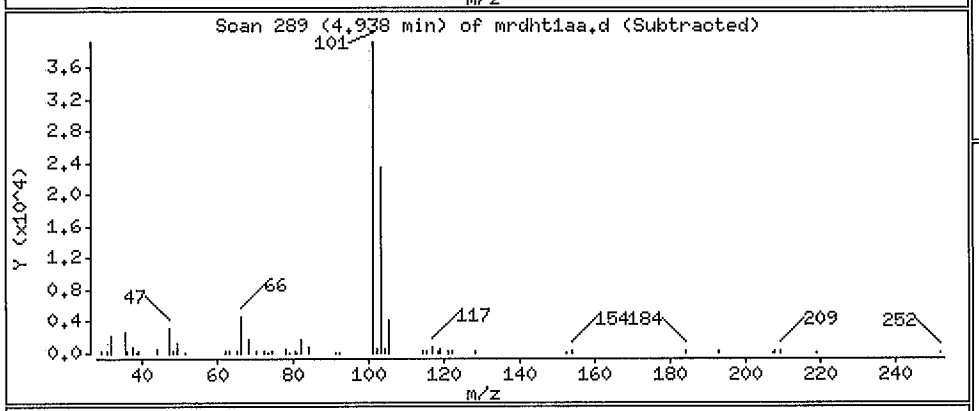
Column phase: Rtx-5

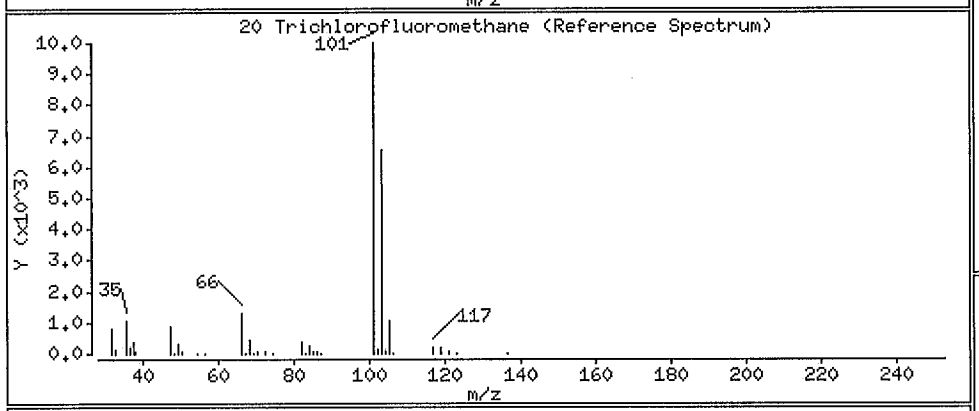
Column diameter: 0.32

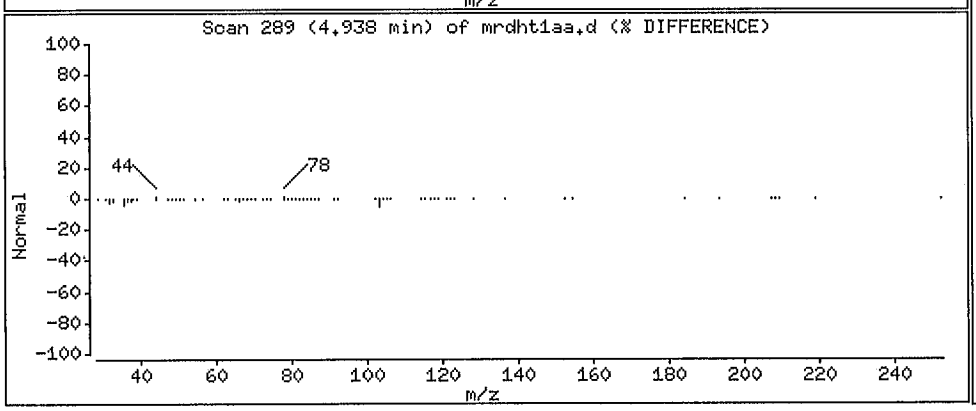
20 Trichlorofluoromethane

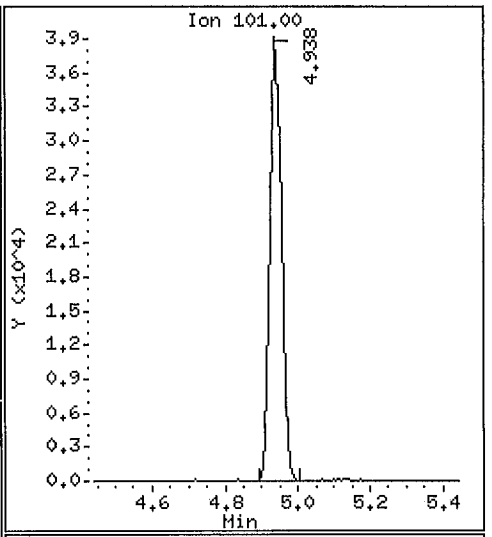
Concentration: 0.1846 ppb(v/v)

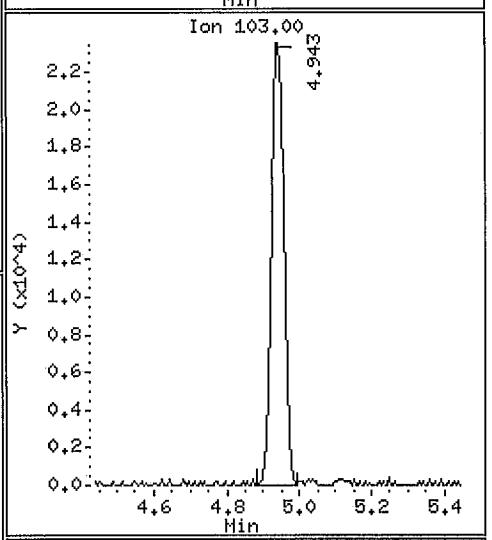


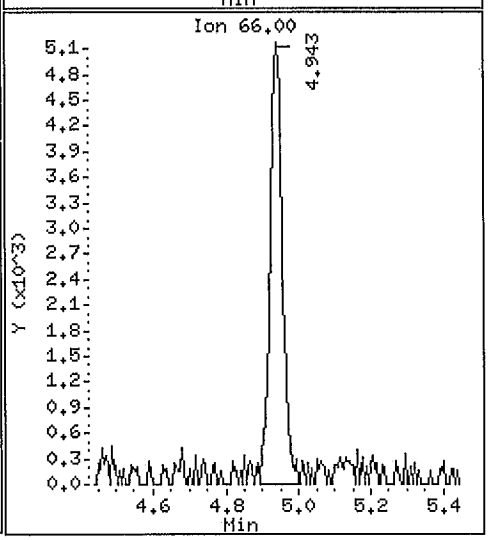












Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

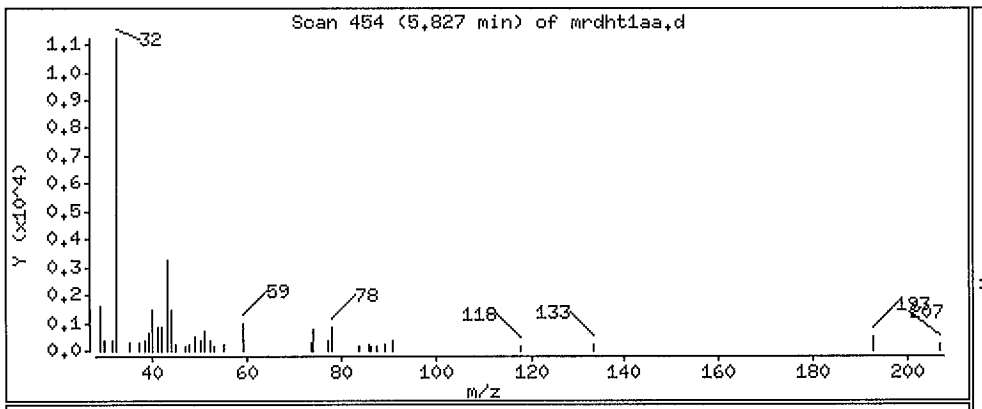
Operator: 7126

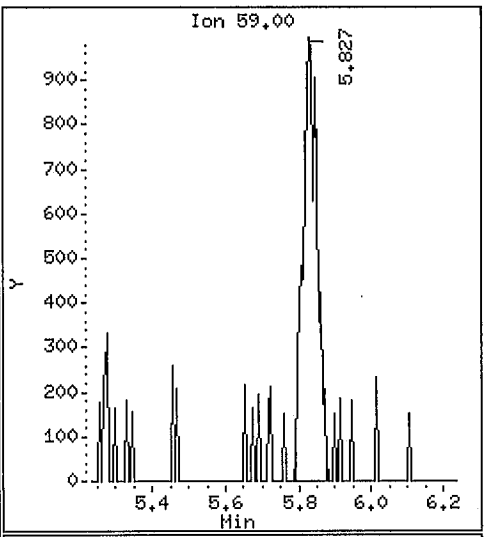
Column phase: Rtx-5

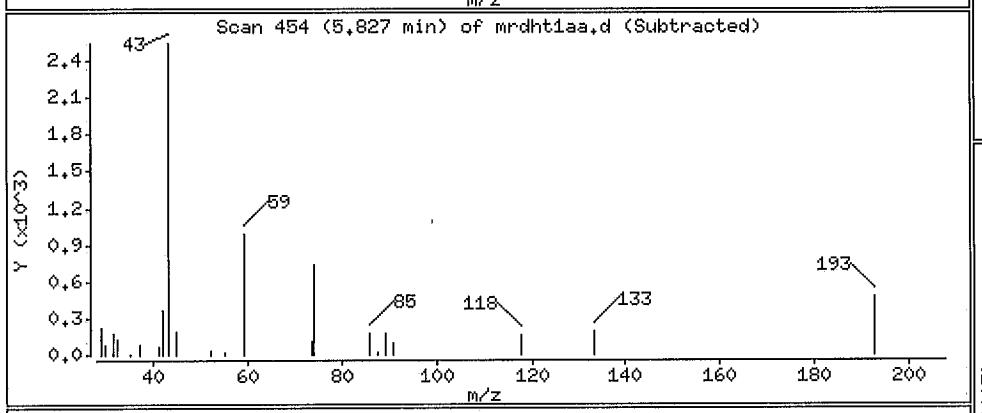
Column diameter: 0.32

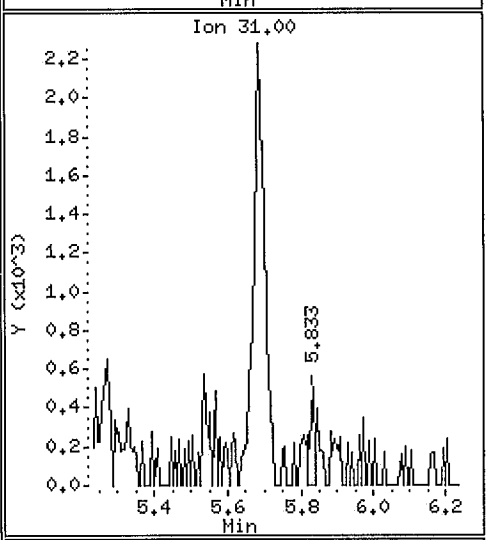
28 tert-butanol

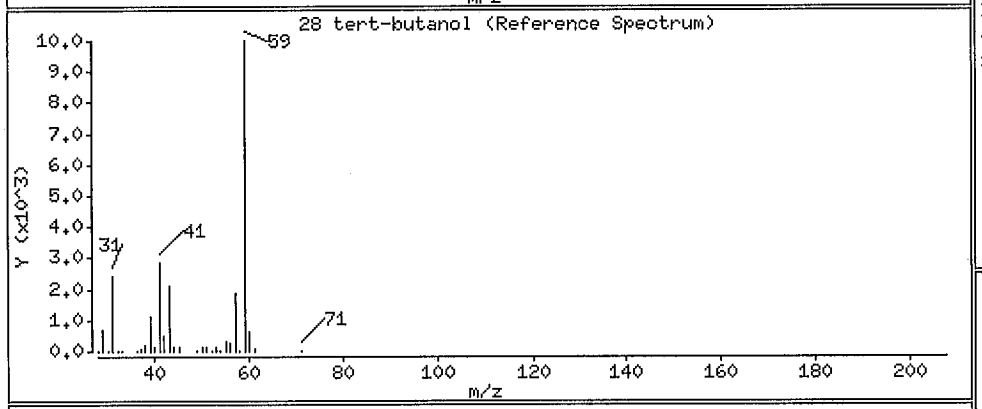
Concentration: 0.01588 ppb(v/v)

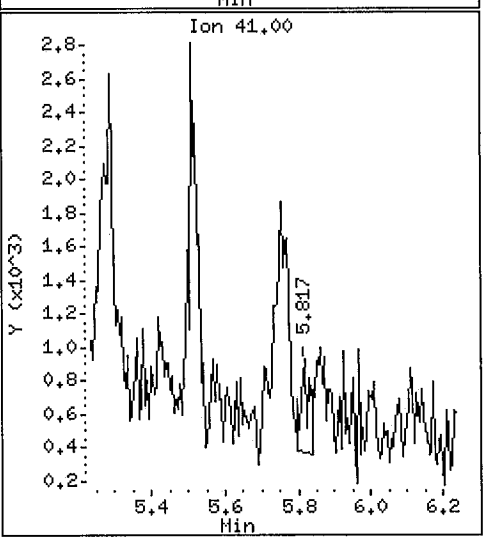


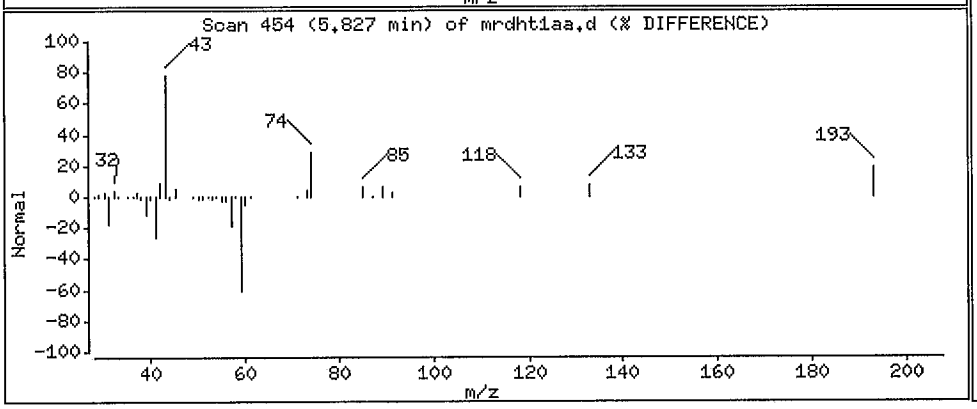












Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

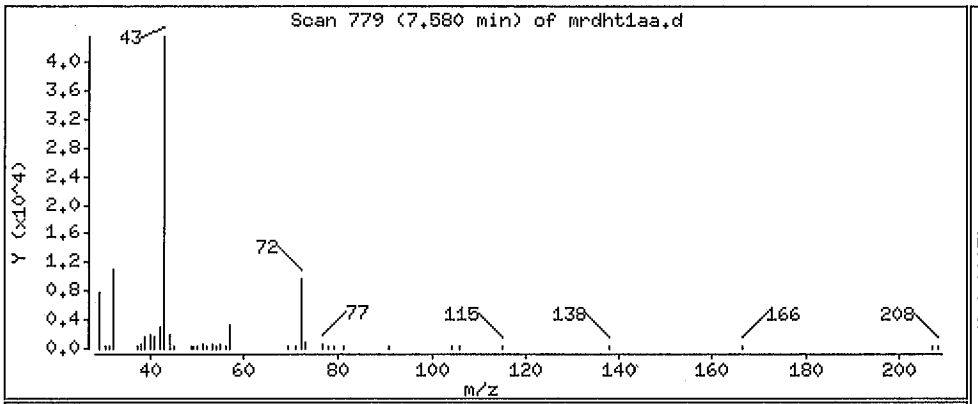
Operator: 7126

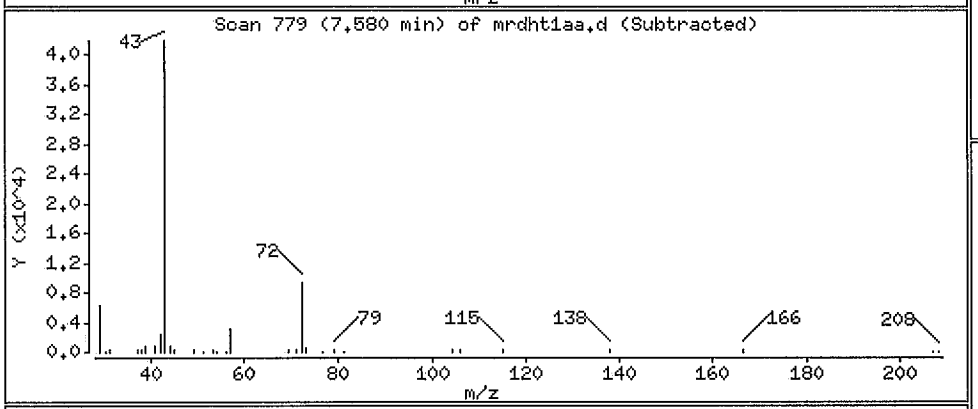
Column phase: Rtx-5

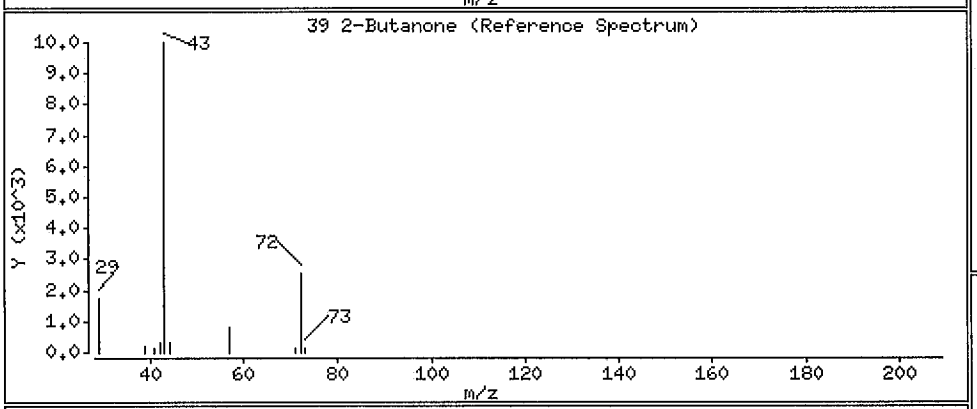
Column diameter: 0.32

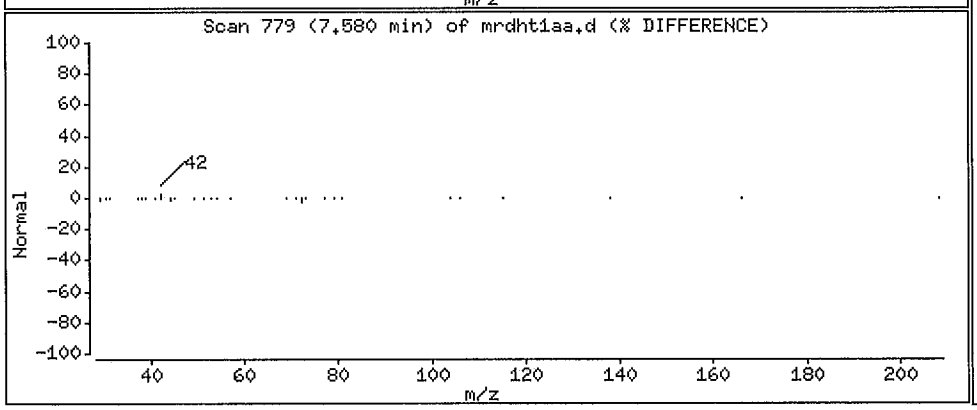
39 2-Butanone

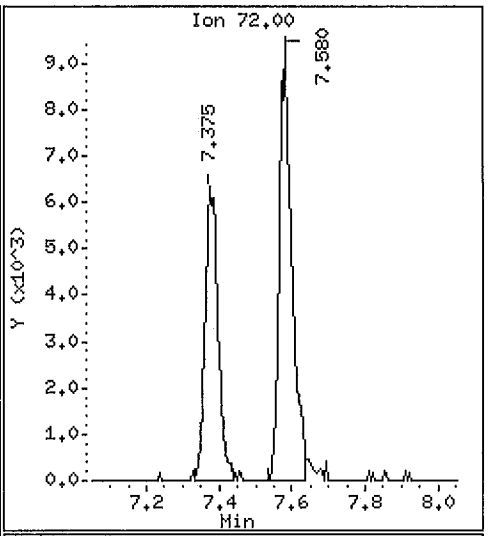
Concentration: 0.3740 ppb(v/v)

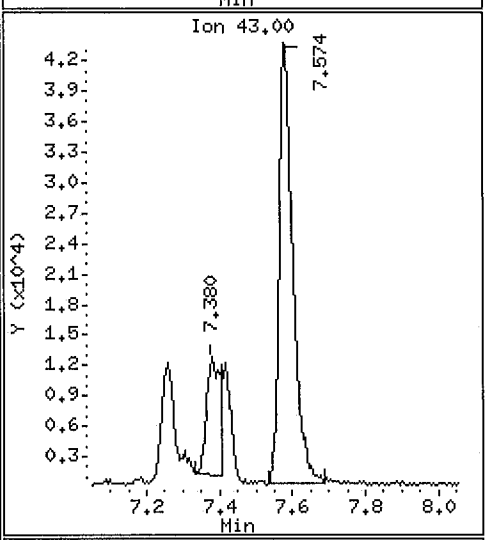


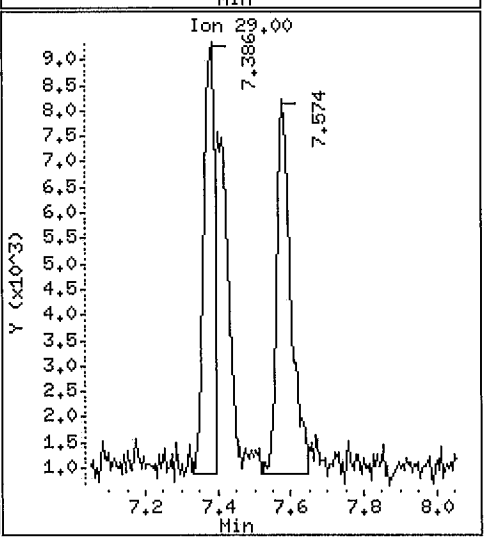












Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

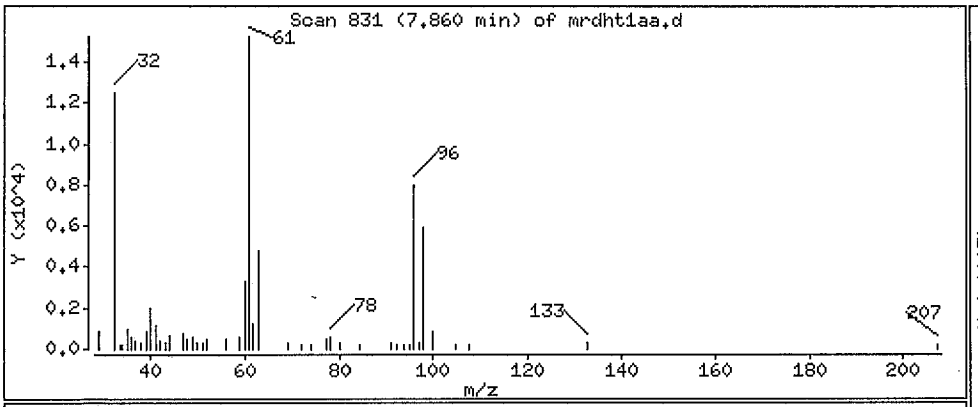
Operator: 7126

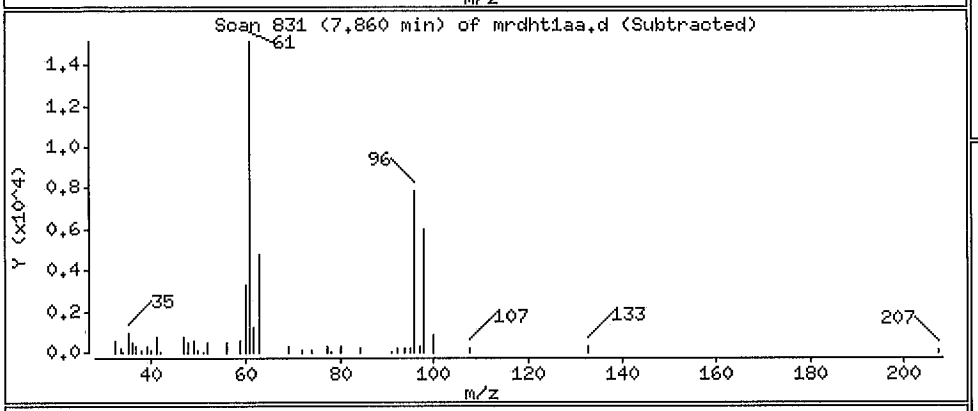
Column phase: Rtx-5

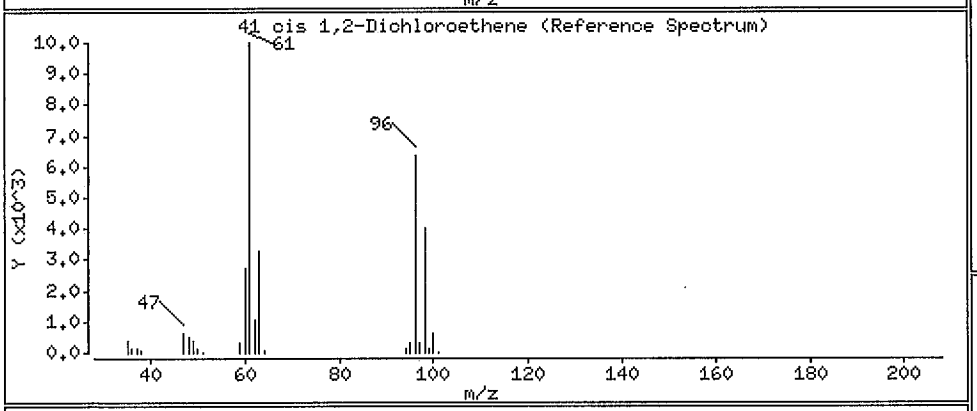
Column diameter: 0.32

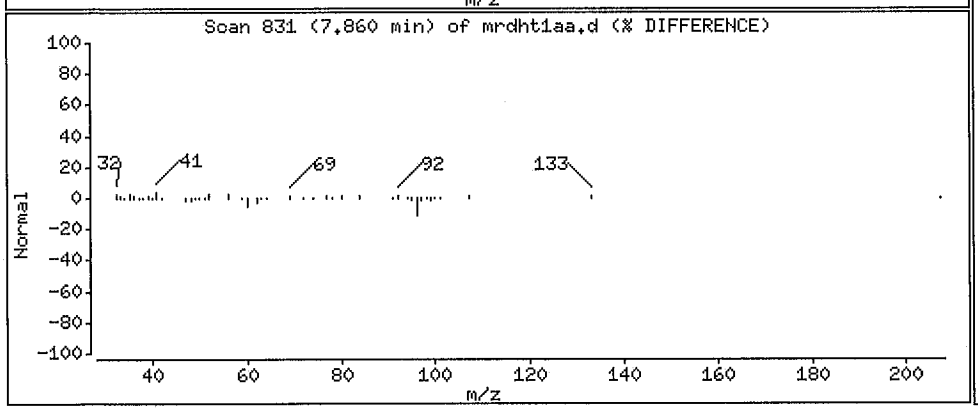
41 cis 1,2-Dichloroethene

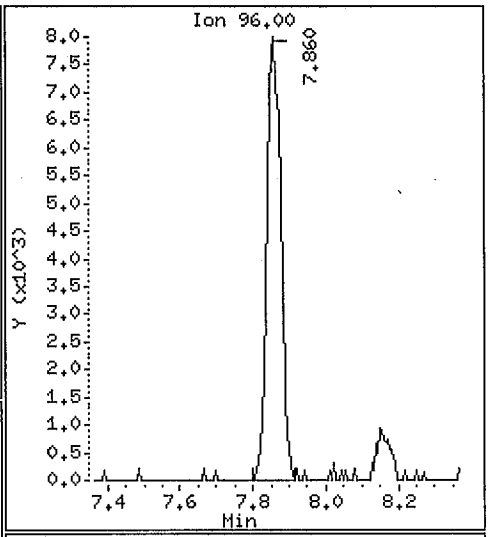
Concentration: 0.1364 ppb(v/v)

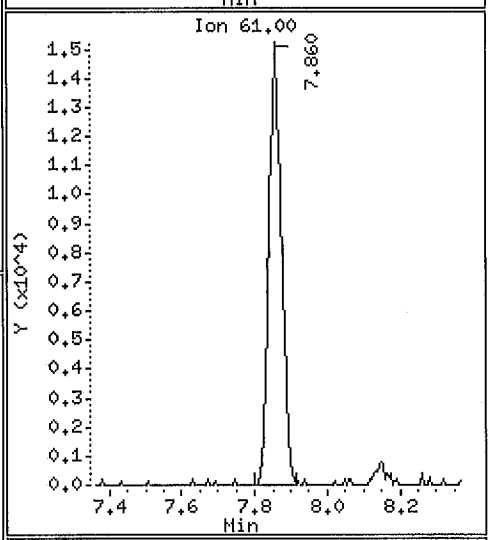


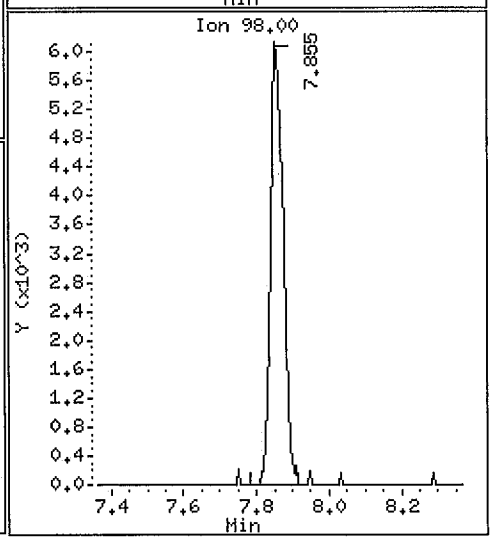












Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

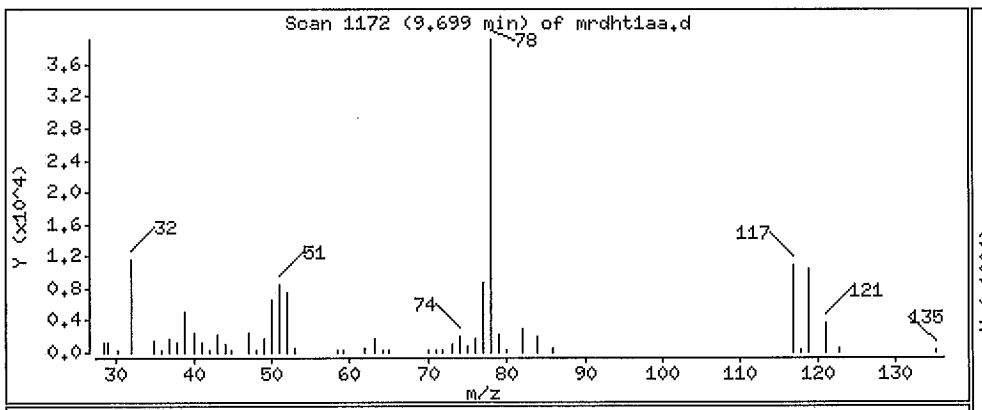
Operator: 7126

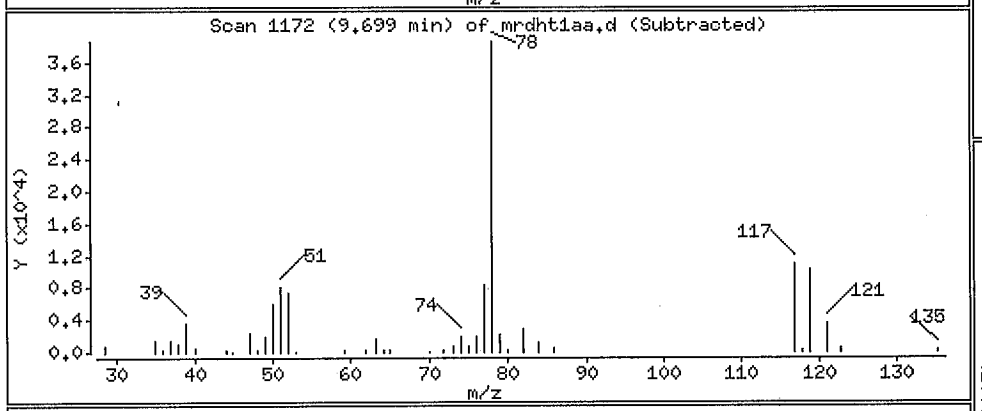
Column phase: Rtx-5

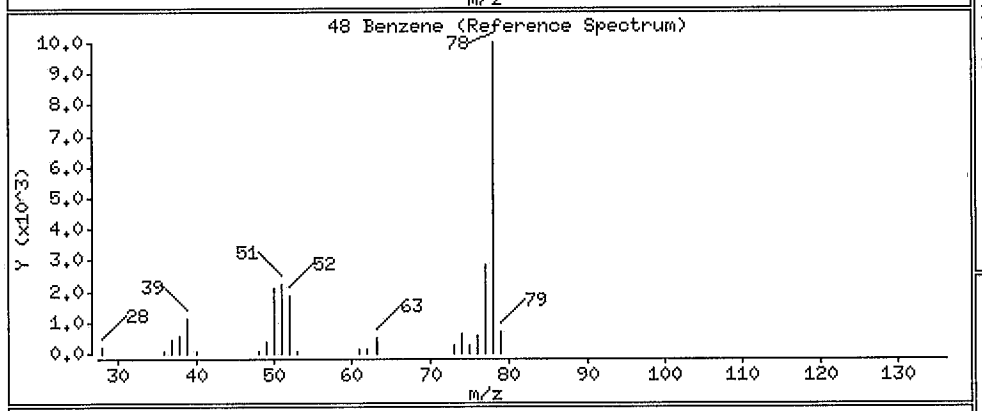
Column diameter: 0.32

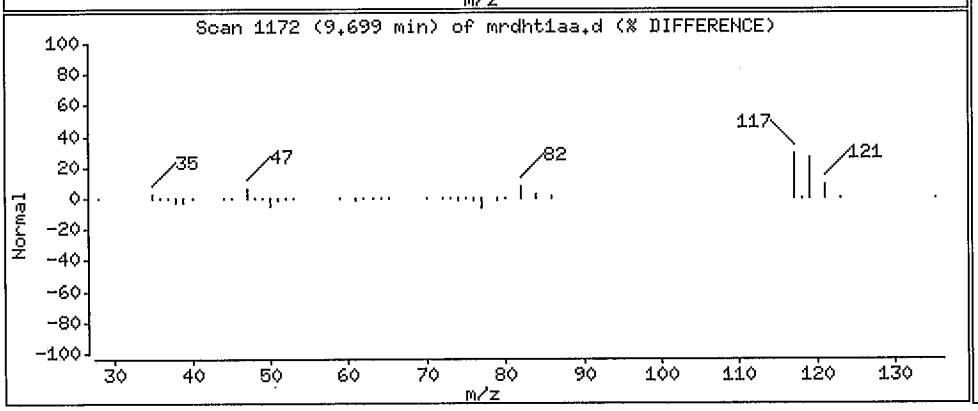
48 Benzene

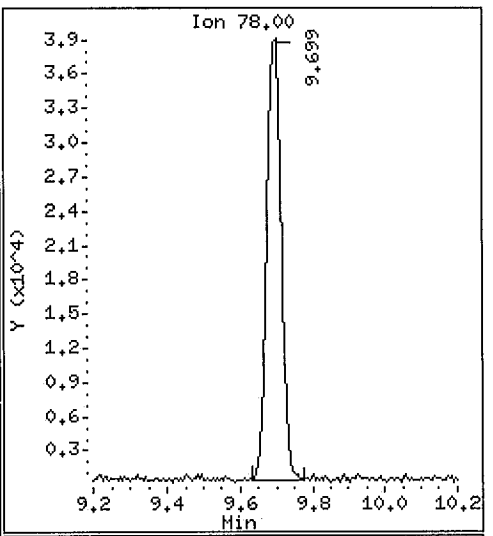
Concentration: 0.2406 ppb(v/v)

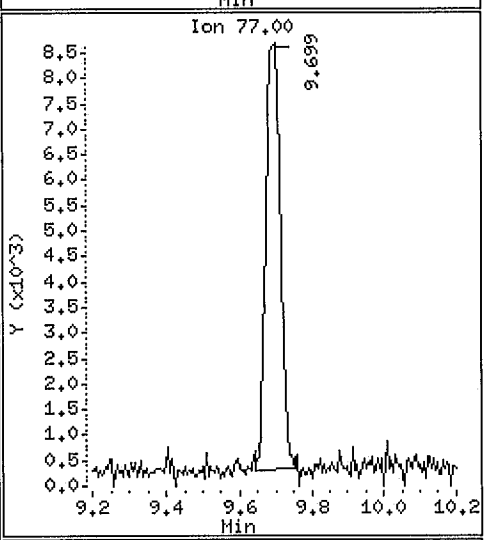


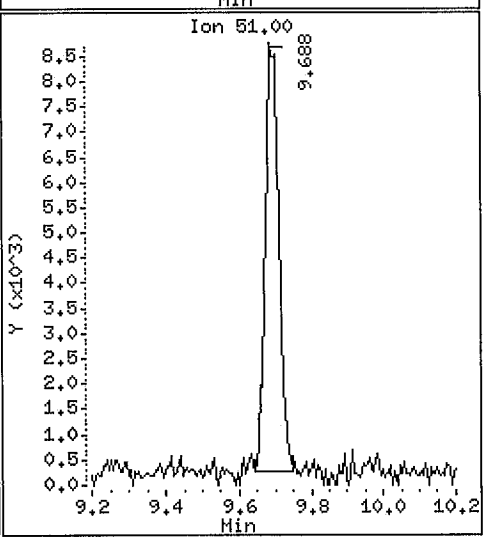












Data File: /var/chem/gcms/mg.i/GC031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

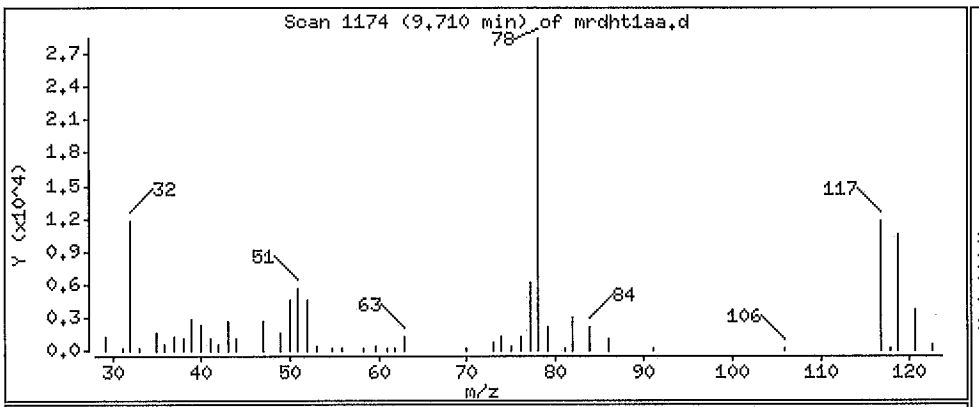
Operator: 7126

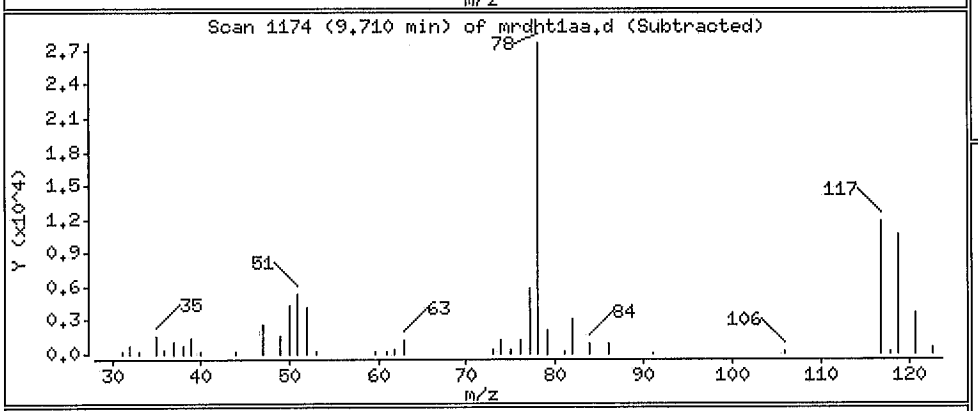
Column phase: Rtx-5

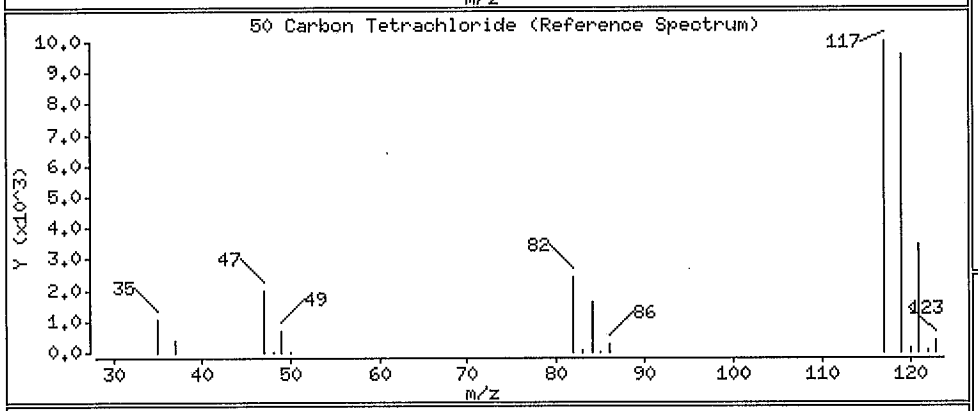
Column diameter: 0.32

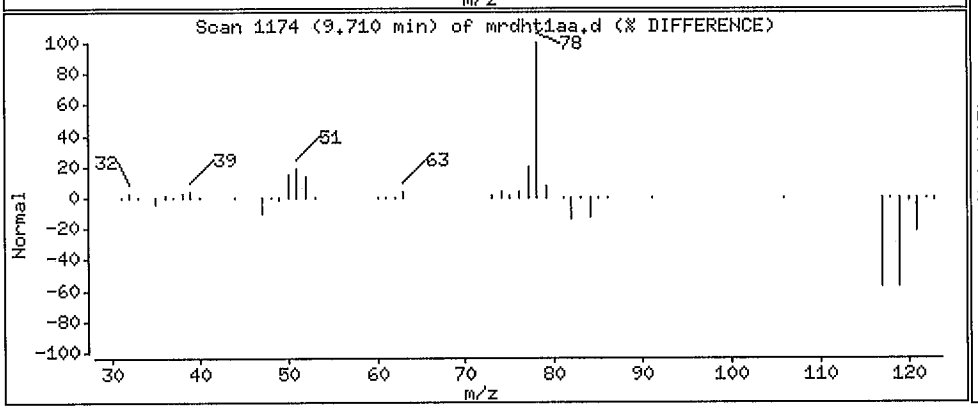
50 Carbon Tetrachloride

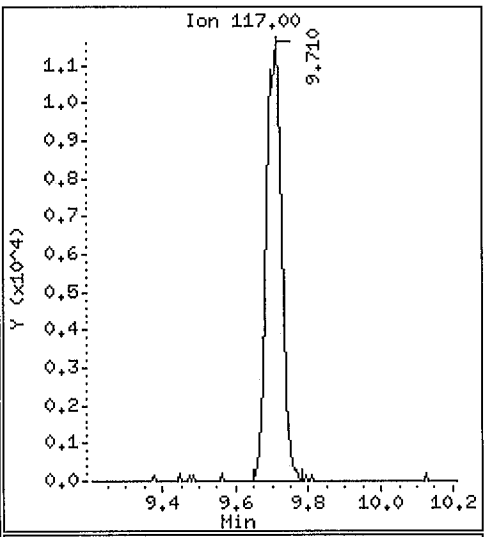
Concentration: 0.08889 ppb(v/v)

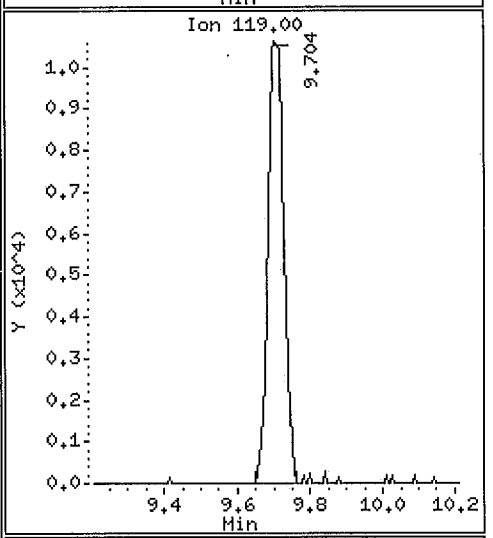


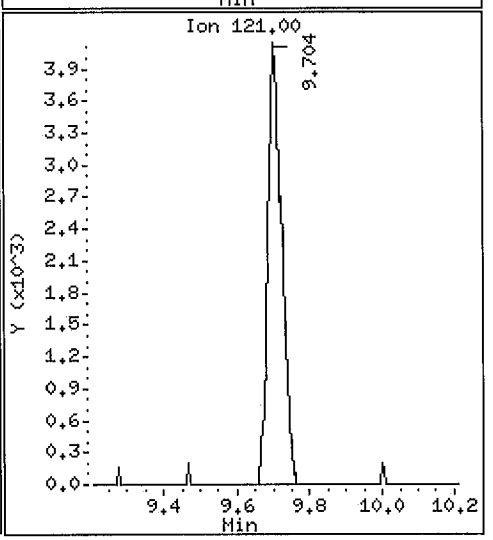












Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

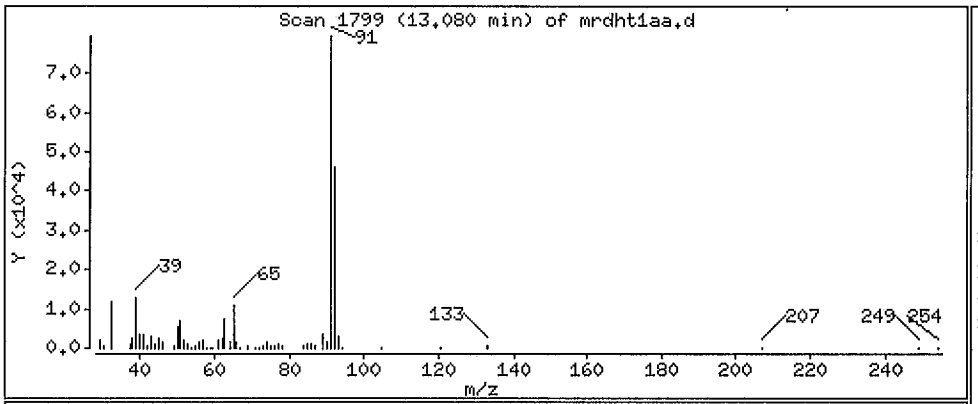
Operator: 7126

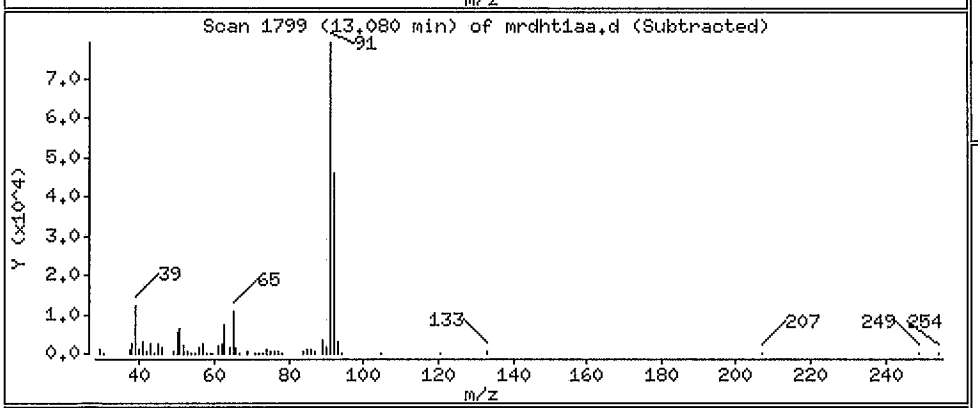
Column phase: Rtx-5

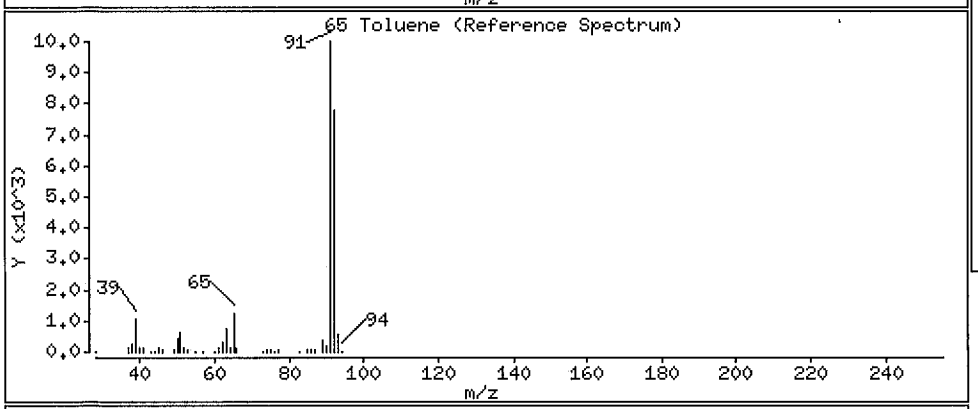
Column diameter: 0.32

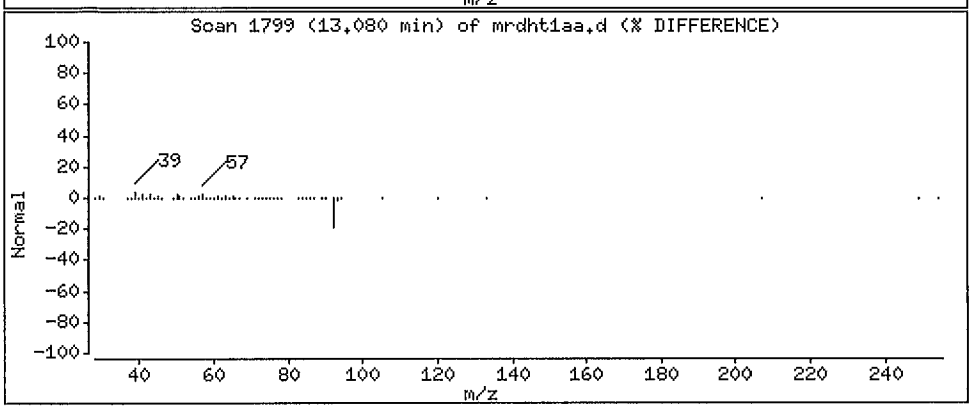
65 Toluene

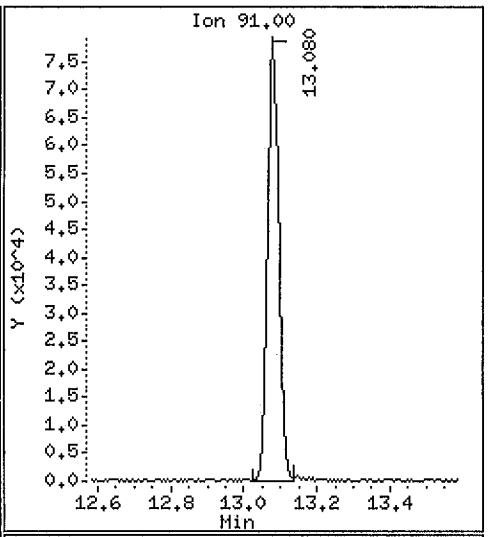
Concentration: 0.3062 ppb(v/v)

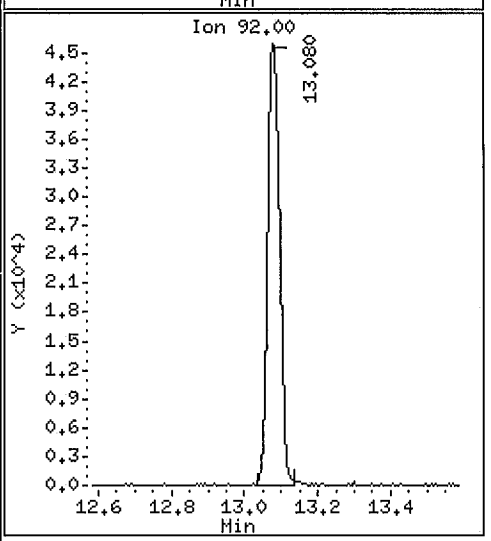












Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

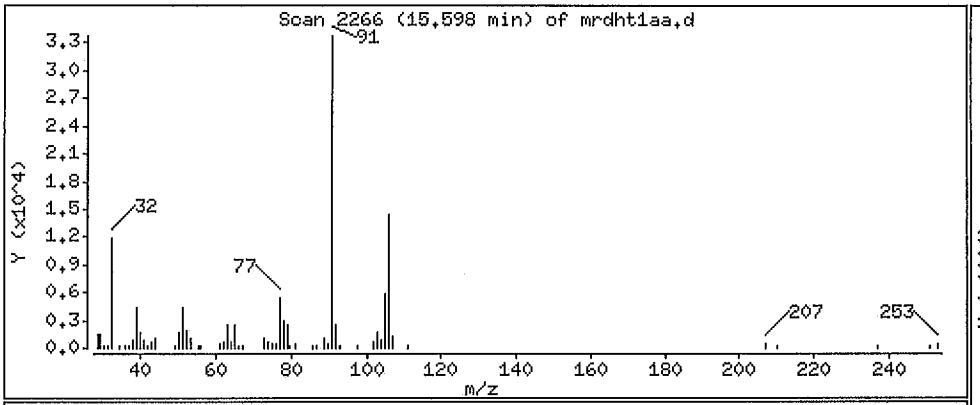
Operator: 7126

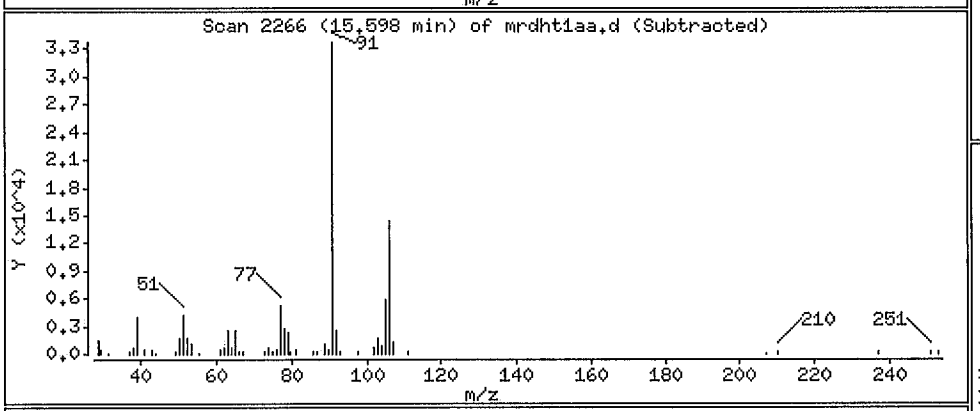
Column phase: Rtx-5

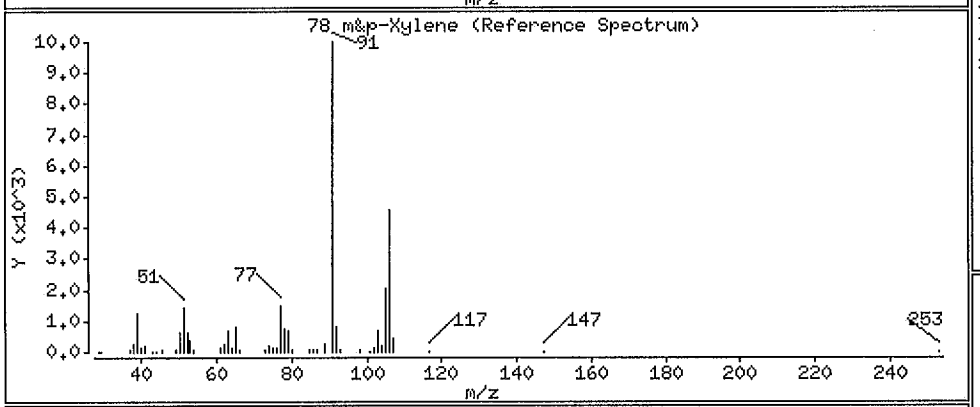
Column diameter: 0.32

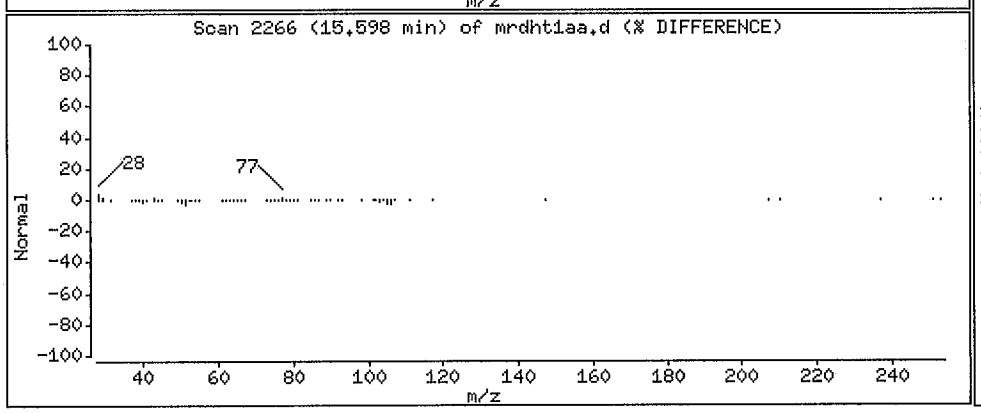
78 m&p-Xylene

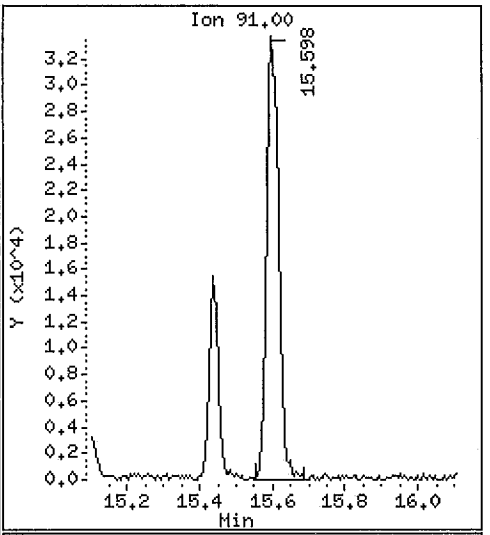
Concentration: 0.1457 ppb(v/v)

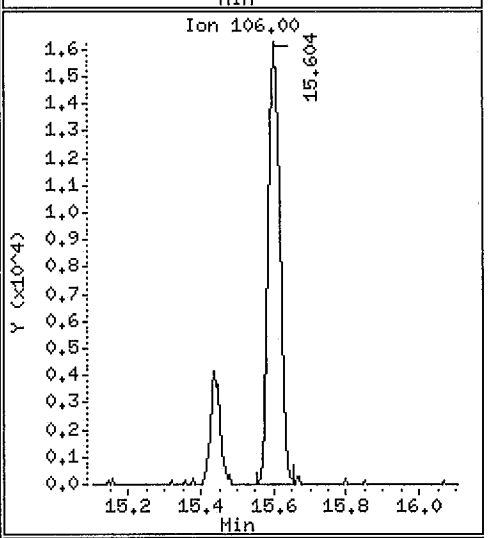


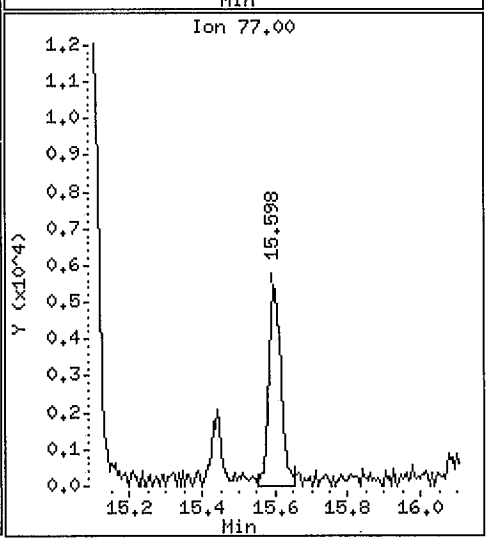












Data File: /var/chem/gcms/mg.i/G031312.b/mrdht1aa.d

Date : 14-MAR-2012 01:01

Client ID: HOUSE # 3 OUTDOOR

Instrument: mg.i

Sample Info: ,,0,,,

Purge Volume: 500.0

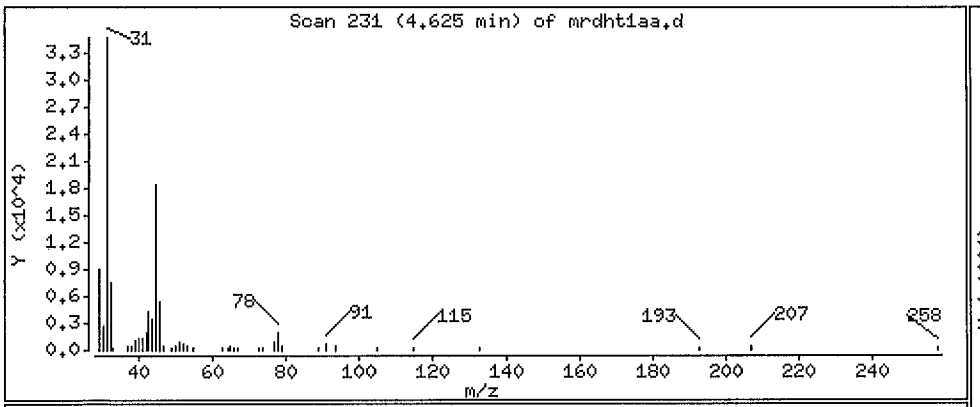
Operator: 7126

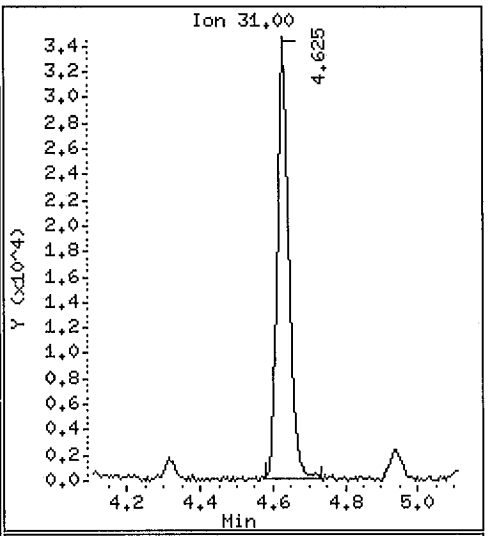
Column phase: Rtx-5

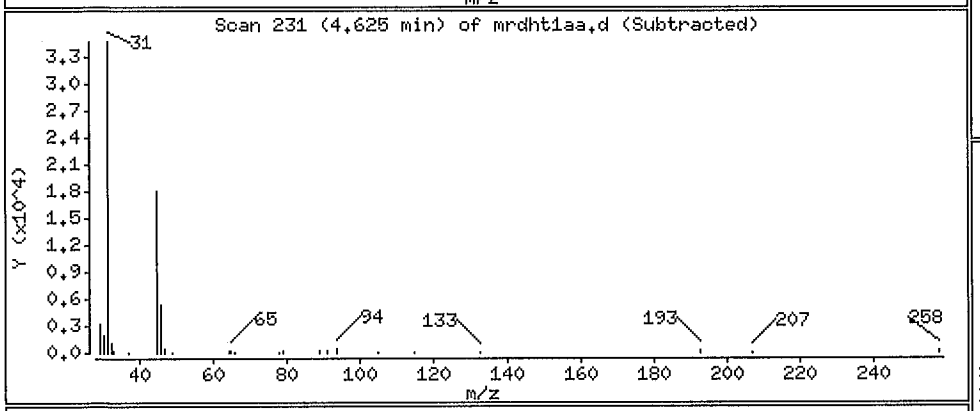
Column diameter: 0.32

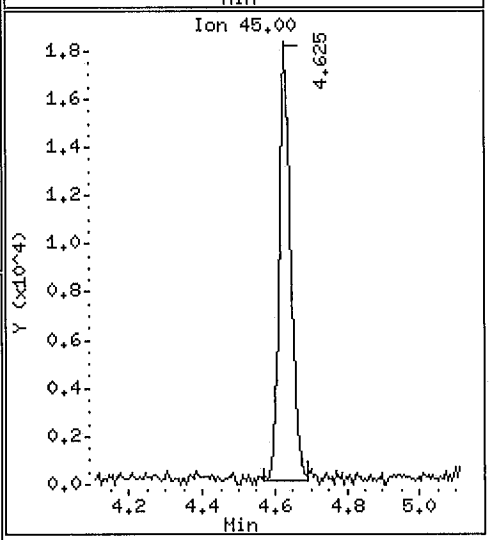
17 ^ ethanol

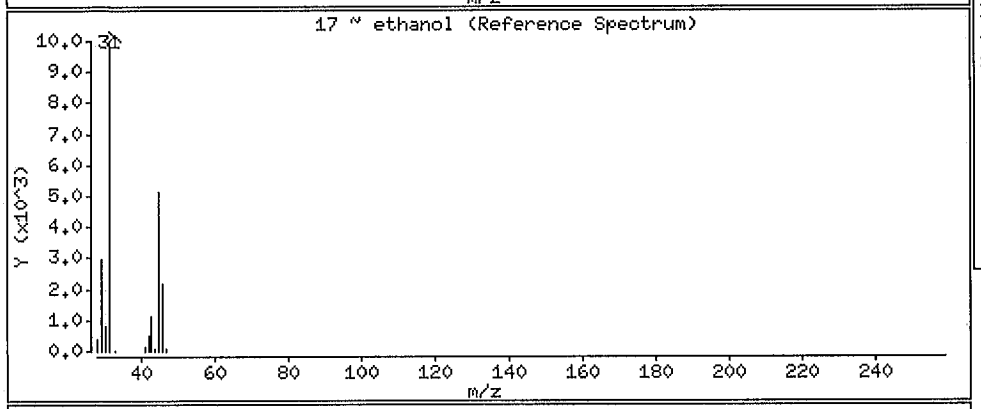
Concentration: 1.826 ppb(v/v)

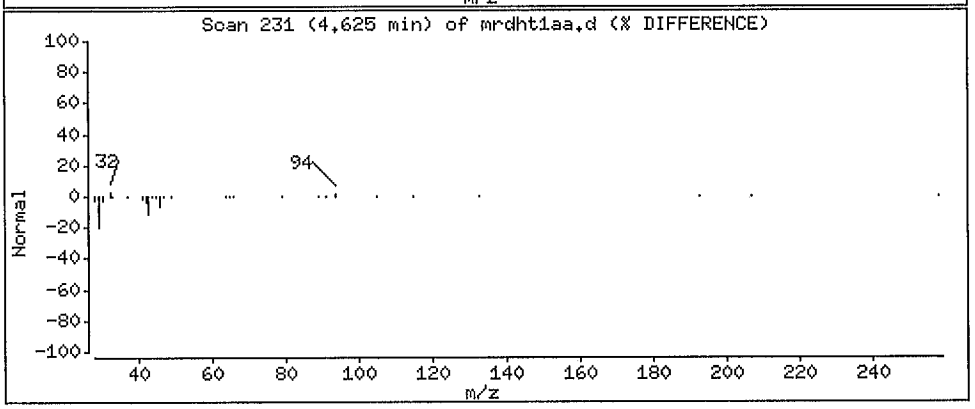












Standards Data

TestAmerica Knoxville GC/MS Air Initial Calibration Data Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 12 & KNOX-MS-0023, Rev 0

Analysis Date:	12/16/11	Instrument::	MG	ICAL Batch/Scan Name:	G121611I	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 24 hr of BFB?		✓			✓
3. Was date/time of analysis verified and logbook as correct?		✓			✓
4. Is low level std at or <RL and are the remaining points consecutive?		✓			✓
5. Are the calibration levels correct? (Calculate standard concentration & amt. injected with quan rpt at each level)		✓			✓
6. Was ICAL processed using correct methods and files?		✓			✓
7. Are the ICAL start and end dates/times correct?		✓			✓
8. Were at least 5 levels of each compound analyzed?		✓			✓
9. At least 6 consecutive points used for quadratic curves, and at least 5 consecutive points for linear curves? Note: Ohio does not allow Quad		✓			✓
10. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%)		✓		Acetaldehyde 43% RSD	✓
11. If curves were used, is correlation coefficient ≥0.990?		✓			✓
12. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous.		✓		123 TCBZ quad	✓
13. For linear or quadratic: origin NOT "included"? (NOTE: OHIO does NOT allow "FORCE" through origin).		✓			✓
14. Is the "Y" intercept less than the RL for each curve?		✓			✓
15. RT for each IS ±20 sec avg. RT?		✓			✓
16. Area for each IS ± 40% avg. area?		✓			✓
17. Each analyte ± 0.06 RRT of avg. RRT?		✓			✓
18. Have all peaks been auto identified? If not, list:		✓			✓
19. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
20. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in ICAL summary?	✓				NA
21. Are all the active compounds listed on each quan report?		✓			✓
22. High point checked for saturation and point removed if saturated?		✓			✓
23. Elution order checked on isomeric pairs?		✓			✓
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane		✓			✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane		✓			✓
• vinyl acetate / hexane		✓			✓
• cis- and trans- isomers		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene		✓			✓
• tert-butylbenzene/p-cymene		✓			✓
• 1,2,4-trimethylbenzene/sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene		✓			✓
24. Is the second source analysis of a reference standard within limits? (65-135% R)		✓		Dodecane 161%	✓
25. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?		✓		123 TCBZ 133% all others 70-130	✓
26. Does the ICAL folder contain complete data in the following order: Data review checklist, a complete runlog, BFB info, ICAL summary, curves, followed by [Quan reports, chromatograms, manual integrations], in increasing amount order, 2nd source info.		✓			✓

Analyst:	Date: 12/19/11	2nd Level Reviewer :	Date: 12/21/11
Comments:		Comments:	
OK · 4 ppbv Dodecane, 123 TCBZ			
Acetaldehyde not valid 9 (RSD) 43%			
OK for Low level 12/21/11 ADJ State.			

111216.zzz

TA-Knoxville
TO-14 Autosampler Log

Sample	Position/Volume	Date	Time
BFB	16 - 101 mL	12/16/2011	11:17:56 AM
ICAL	1 - 50 mL	12/16/2011	11:48:07 AM
ICAL	1 - 102 mL	12/16/2011	12:39:49 PM
ICAL	1 - 201 mL	12/16/2011	1:30:40 PM
IC01	2 - 201 mL	12/16/2011	2:28:50 PM
IC02	3 - 201 mL	12/16/2011	3:23:18 PM
IC03	4 - 201 mL	12/16/2011	4:17:01 PM
IC04	5 - 201 mL	12/16/2011	5:10:33 PM
IC05	6 - 201 mL	12/16/2011	6:04:22 PM
IC06	7 - 202 mL	12/16/2011	6:58:27 PM
IC07	8 - 201 mL	12/16/2011	7:51:30 PM
blk	16 - 202 mL	12/16/2011	8:44:25 PM
icv	9 - 101 mL	12/16/2011	9:35:02 PM
lcs	9 - 201 mL	12/16/2011	10:26:04 PM
blk	16 - 501 mL	12/16/2011	11:22:07 PM
blk	16 - 501 mL	12/17/2011	12:17:15 AM

TestAmerica Laboratories, Inc. – Knoxville 2
CANISTER RUN LOG

GCMS Analysis: AIR Inst: MG

Analyst: HMT Qtims Batch: ICAL

Date: 12/16/11 ICAL Batch: G121611I Target Batch: G121611S IS #1 Area: 404705

Surr/IS ID & Vol.: 40MCV425 System Date/Time ok (y/n): Y

Preventive Maintenance Performed ☑Daily

Time	Use	Lot No.	File ID	Can #	Pos	Vol* (mL)	Can DF	Comments
1117	✓	tune	GBFBL16	-	16	100	1	
1148	✓	MDL	GMDL116	CX2316	1	50		
1239	✓	ICAL 1	G1CL161	↓	1	100		
1330	✓	2	2	↓	1	200		
1428	✓	3	3	CX2315	2			
1523	✓	4	4	CX2314	3			
1617	✓	5	5	CX2313	4			
1710	✓	6	6	CX2312	5			
1804	✓	7	7	CX2311	6			
1858	✓	8	8	CX2310	7			
1951	✓	9	9	CX2309	8	↓		
2044	N	blk	Blank1	-	16	200		
2135	✓	ICV	G1CVL16	CX2306	9	100		
2226	not needed	LCS	GLCSL16	↓	9	200		
2322	N 12/19/11 H	blk	BLANK2	-	16	500		
0017	✓	↓	GBLKL16	-	↓	↓	↓	

12/19/11

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calulations.

Analyst: _____ Date: 12/19/11

Data File: /var/chem/gcms/mg.i/G121611I.b/gbfb116.d

Date : 16-DEC-2011 11:17

Client ID: BFB

Instrument: mg.i

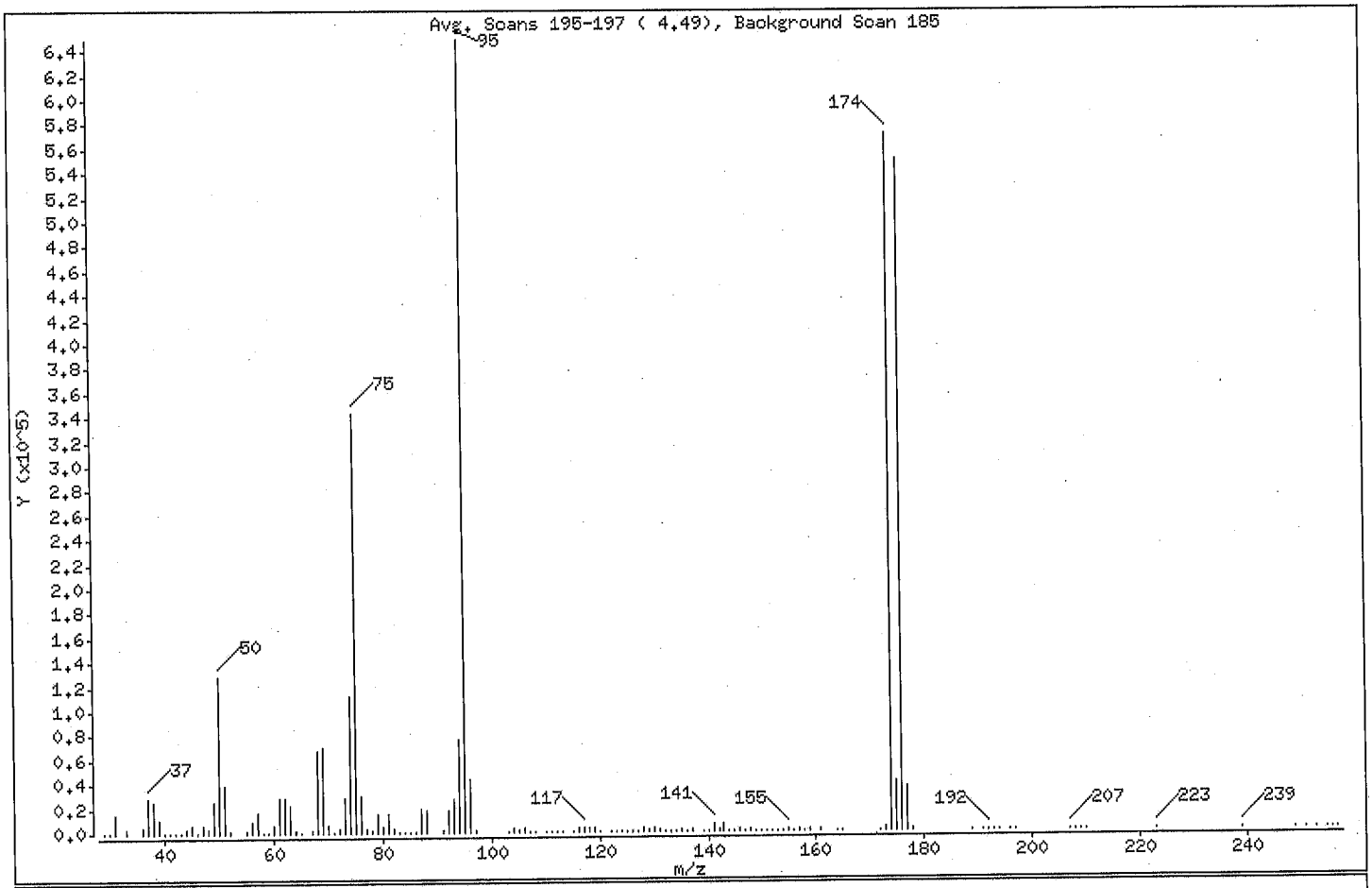
Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: RTX-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.70
75	30.00 - 60.00% of mass 95	52.96
96	5.00 - 9.00% of mass 95	6.73
173	Less than 2.00% of mass 174	0.36 (0.41)
174	50.00 - 120.00% of mass 95	87.99
175	5.00 - 9.00% of mass 174	6.25 (7.11)
176	95.00 - 101.00% of mass 174	84.83 (96.40)
177	5.00 - 9.00% of mass 176	5.57 (6.57)

Data File: /var/chem/gcms/mg.i/G121611I.b/gbfbl16.d

Date : 16-DEC-2011 11:17

Client ID: BFB

Instrument: mg.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: RTX-5

Column diameter: 0.32

Data File: gbfbl16.d

Spectrum: Avg. Scans 195-197 (4.49), Background Scan 185

Location of Maximum: 95.00

Number of points: 143

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	103	71.00	117	116.00	2298	154.00	463
30.00	204	72.00	3227	117.00	3427	155.00	1764
31.00	14734	73.00	27976	118.00	2299	156.00	283
33.00	2665	74.00	111896	119.00	2842	157.00	1440
36.00	5069	75.00	343808	120.00	227	158.00	325
37.00	28576	76.00	29232	122.00	50	159.00	946
38.00	25136	77.00	3046	123.00	69	161.00	817
39.00	10095	78.00	1953	124.00	349	164.00	56
40.00	336	79.00	14813	125.00	236	165.00	28
41.00	96	80.00	4987	126.00	326	172.00	216
42.00	128	81.00	15456	127.00	270	173.00	2349
43.00	353	82.00	3450	128.00	2318	174.00	571200
44.00	2690	83.00	257	129.00	1158	175.00	40600
45.00	5584	84.00	56	130.00	2329	176.00	550656
46.00	379	85.00	115	131.00	1123	177.00	36168
47.00	6000	86.00	475	132.00	110	178.00	1007
48.00	3396	87.00	18904	133.00	62	189.00	64
49.00	25312	88.00	18056	134.00	207	191.00	43
50.00	127880	91.00	2009	135.00	1341	192.00	76
51.00	38248	92.00	17912	136.00	296	193.00	6
52.00	1632	93.00	27000	137.00	1188	194.00	59
55.00	1369	94.00	76520	139.00	292	196.00	61
56.00	8256	95.00	649152	140.00	444	197.00	17
57.00	16354	96.00	43704	141.00	6650	207.00	535
58.00	693	97.00	1438	142.00	857	208.00	46
59.00	42	103.00	306	143.00	6643	209.00	135
60.00	5300	104.00	2587	144.00	382	210.00	121
61.00	28864	105.00	801	145.00	566	223.00	109
62.00	28712	106.00	2615	146.00	848	239.00	175
63.00	21792	107.00	577	147.00	494	249.00	45
64.00	1962	108.00	57	148.00	1468	251.00	35
65.00	331	110.00	389	149.00	392	253.00	117
67.00	1516	111.00	430	150.00	693	255.00	147
68.00	67120	112.00	379	151.00	115	256.00	58
69.00	69648	113.00	387	152.00	484	257.00	55

Data File: /var/chem/gcms/ms.i/G121611I.b/gbfbl16.d

Date : 16-DEC-2011 11:17

Client ID: BFB

Instrument: ms.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: RTX-5

Column diameter: 0.32

Data File: gbfbl16.d

Spectrum: Avg. Scans 195-197 (4.49), Background Scan 185

Location of Maximum: 95.00

Number of points: 143

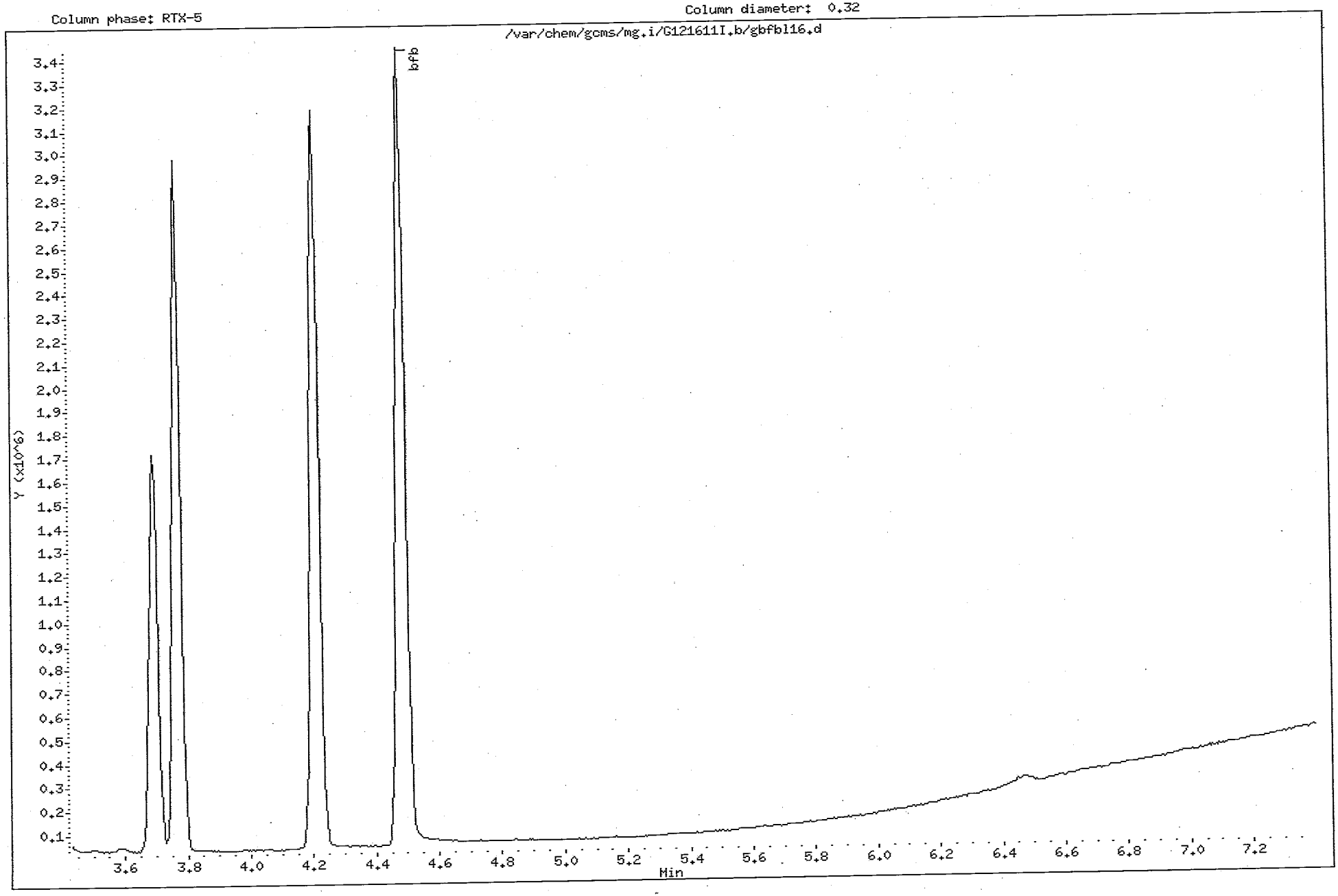
m/z	Y	m/z	Y	m/z	Y	m/z	Y
70.00	5481	115.00	619	153.00	546		

Data File: /var/chem/gcms/mg.i/G121611I.b/gbfbl16.d
Date : 16-DEC-2011 11:17
Client ID: BFB
Sample Info: BFB,,3,,,BFB

Instrument: mg.i

Operator: 7126
Column diameter: 0.32

Column phase: RTX-5



Report Date:12/19/2011

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mg.i/G121611I.b/gicl161.d
STD 2 = /var/chem/gcms/mg.i/G121611I.b/gicl162.d
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STD 8 = /var/chem/gcms/mg.i/G121611I.b/gicl168.d
STD 9 = /var/chem/gcms/mg.i/G121611I.b/gicl169.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
1,4-Difluorobenzene	10.362	10.362	10.368	10.362	10.368	10.368	10.368	10.394	10.378	10.370
Chlorobenzene-d5	15.172	15.172	15.172	15.172	15.172	15.172	15.178	15.188	15.178	15.175
Bromochloromethane	8.238	8.238	8.238	8.238	8.243	8.243	8.243	8.275	8.259	8.246
4-Bromofluorobenzene	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110	1.110
~ 2-Methylnaphthalene	NA	NA	1.436	1.436	1.436	1.436	1.436	1.434	1.436	1.436
Chlorodifluoromethane	0.448	0.448	0.448	0.448	0.446	0.447	0.447	0.447	0.446	0.447
Propene	NA	NA	0.448	0.448	0.447	0.448	0.448	0.447	0.447	0.448
Dichlorodifluoromethane	0.454	0.453	0.453	0.453	0.453	0.453	0.453	0.453	0.452	0.453
Chloromethane	0.472	0.472	0.472	0.472	0.471	0.472	0.472	0.472	0.471	0.472
1,2-Dichlorotetrafluoroethan	0.473	0.472	0.473	0.472	0.472	0.472	0.472	0.472	0.472	0.472
Methanol	NA	NA	NA	NA	0.490	0.490	0.490	0.492	0.490	0.490
~ acetaldehyde	NA	NA	NA	0.489	0.489	0.489	0.489	0.490	0.488	0.489
Vinyl Chloride	0.490	0.489	0.490	0.490	0.489	0.489	0.489	0.489	0.489	0.489
n-Butane	0.498	0.498	0.498	0.498	0.498	0.498	0.498	0.498	0.497	0.498
1,3-Butadiene	0.498	0.498	0.498	0.498	0.498	0.498	0.498	0.498	0.497	0.498
Bromomethane	0.532	0.531	0.532	0.532	0.531	0.532	0.532	0.531	0.530	0.531
Chloroethane	0.546	0.546	0.546	0.546	0.545	0.545	0.545	0.546	0.545	0.546
~ ethanol	NA	0.563	0.564	0.562	0.562	0.562	0.562	0.567	0.563	0.563
Vinyl Bromide	0.578	0.576	0.577	0.576	0.576	0.577	0.577	0.577	0.576	0.577
2-methyl butane	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580	0.580
Trichlorofluoromethane	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.604	0.603	0.604
Acrolein	NA	NA	0.611	0.610	0.609	0.609	0.609	0.610	0.609	0.610
Acetonitrile	NA	NA	0.620	0.619	0.619	0.619	0.619	0.621	0.619	0.619
Acetone	NA	NA	NA	NA	0.625	0.624	0.624	0.626	0.624	0.625
Isopropyl alcohol	NA	NA	0.641	0.637	0.637	0.636	0.636	0.642	0.636	0.638
Pentane	NA	0.626	0.626	0.626	0.625	0.626	0.625	0.626	0.624	0.626
Ethyl Ether	0.651	0.650	0.651	0.649	0.649	0.648	0.648	0.649	0.647	0.649
1,1-Dichloroethene	0.679	0.678	0.679	0.678	0.678	0.678	0.679	0.679	0.678	0.678
tert-butanol	NA	NA	0.707	0.703	0.701	0.700	0.700	0.705	0.700	0.702
Acrylonitrile	0.697	0.697	0.697	0.696	0.696	0.696	0.696	0.698	0.696	0.696
1,1,2-Trichlorotrifluoroetha	0.698	0.696	0.697	0.697	0.696	0.696	0.696	0.697	0.696	0.696
Methylene Chloride	NA	NA	0.718	0.718	0.717	0.717	0.717	0.718	0.717	0.717
3-Chloropropene	0.718	0.717	0.718	0.718	0.717	0.718	0.718	0.718	0.718	0.718
Carbon Disulfide	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732	0.732
trans-1,2-Dichloroethene	0.803	0.804	0.804	0.804	0.803	0.803	0.804	0.804	0.803	0.804
~ 2-Methyl Pentane	0.802	0.802	0.802	0.802	0.801	0.801	0.801	0.801	0.801	0.801
Methyl-t-Butyl Ether	0.830	0.828	0.828	0.826	0.825	0.824	0.823	0.824	0.822	0.826

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

Report Date:12/19/2011

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mg.i/G121611I.b/gicl161.d
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STD 9 = /var/chem/gcms/mg.i/G121611I.b/gicl169.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
1,1-Dichloroethane	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851	0.851
Vinyl Acetate	0.868	0.867	0.868	0.867	0.867	0.866	0.866	0.868	0.866	0.867
2-Butanone	NA	NA	0.927	0.925	0.923	0.923	0.922	0.923	0.921	0.923
Hexane	0.910	0.910	0.910	0.910	0.909	0.909	0.909	0.909	0.908	0.909
cis 1,2-Dichloroethene	0.962	0.963	0.962	0.963	0.962	0.963	0.963	0.963	0.962	0.962
Ethyl acetate	NA	0.995	0.995	0.993	0.992	0.991	0.991	0.992	0.990	0.992
Chloroform	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001	1.001
Tetrahydrofuran	1.070	1.066	1.066	1.063	1.060	1.060	1.058	1.057	1.056	1.062
1,1,1-Trichloroethane	1.116	1.116	1.116	1.116	1.116	1.116	1.116	1.115	1.115	1.116
1,2-Dichloroethane	0.900	0.900	0.900	0.900	0.900	0.900	0.900	0.901	0.900	0.900
1-Butanol	NA	NA	0.964	0.960	0.957	0.956	0.955	0.957	0.954	0.958
Benzene	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944	0.944
Cyclohexane	0.940	0.939	0.940	0.940	0.939	0.939	0.939	0.939	0.939	0.939
Carbon Tetrachloride	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945	0.945
~ 2,3-dimethylpentane	0.952	0.951	0.950	0.950	0.950	0.950	0.950	0.950	0.951	0.950
~ Thiophene	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971	0.971
2,2,4-trimethylpentane	1.014	1.014	1.014	1.014	1.013	1.013	1.013	1.013	1.013	1.013
Heptane	1.052	1.052	1.051	1.052	1.051	1.051	1.052	1.051	1.051	1.051
1,2-Dichloropropane	1.066	1.065	1.064	1.065	1.065	1.065	1.065	1.064	1.064	1.065
Trichloroethene	1.068	1.068	1.067	1.068	1.068	1.068	1.068	1.067	1.067	1.068
Dibromomethane	1.078	1.078	1.077	1.078	1.078	1.078	1.078	1.077	1.078	1.078
Bromodichloromethane	1.093	1.093	1.092	1.093	1.092	1.092	1.092	1.092	1.092	1.092
1,4-dioxane	NA	1.111	1.110	1.107	1.105	1.104	1.104	1.103	1.102	1.106
Methyl Methacrylate	NA	1.108	1.108	1.108	1.107	1.107	1.107	1.106	1.106	1.107
~ 1-Methylnaphthalene	NA	NA	1.449	1.449	1.449	1.449	1.448	1.447	1.448	1.448
~ methyl cyclohexane	1.139	1.139	1.138	1.139	1.138	1.138	1.138	1.137	1.138	1.138
4-Methyl-2-pentanone	NA	1.195	1.194	1.193	1.191	1.191	1.191	1.190	1.190	1.192
cis-1,3-Dichloropropene	1.192	1.192	1.191	1.192	1.191	1.191	1.192	1.190	1.191	1.191
trans-1,3-Dichloropropene	0.862	0.862	0.862	0.862	0.862	0.862	0.861	0.862	0.862	0.862
Toluene	0.867	0.867	0.867	0.867	0.867	0.867	0.867	0.868	0.868	0.867
1,1,2-Trichloroethane	0.875	0.875	0.874	0.874	0.875	0.875	0.874	0.875	0.875	0.875
~ 2-methyl thiophene	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878
~ 3-methyl thiophene	0.891	0.891	0.892	0.892	0.892	0.892	0.891	0.892	0.892	0.892
2-Hexanone	NA	0.906	0.906	0.905	0.904	0.904	0.903	0.904	0.904	0.904
Octane	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912	0.912
Dibromochloromethane	0.921	0.921	0.921	0.921	0.921	0.921	0.921	0.921	0.921	0.921
1,2-Dibromoethane	0.940	0.940	0.940	0.940	0.940	0.940	0.939	0.940	0.940	0.940

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mg.i/G121611I.b/gicl161.d
STD 2 = /var/chem/gcms/mg.i/G121611I.b/gicl162.d
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STD 9 = /var/chem/gcms/mg.i/G121611I.b/gicl169.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
Tetrachloroethene	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.944	0.943
Chlorobenzene	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003
~ 2,3-dimethylheptane	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002
Ethylbenzene	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022	1.022
~ 2-ethyl thiophene	1.029	1.029	1.029	1.029	1.029	1.029	1.029	1.029	1.029	1.029
m&p-Xylene	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033	1.033
Nonane	NA	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060
Bromoform	NA	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064
Styrene	1.065	1.065	1.065	1.065	1.065	1.065	1.064	1.064	1.065	1.065
o-Xylene	1.068	1.068	1.068	1.068	1.068	1.068	1.068	1.068	1.068	1.068
1,1,2,2-Tetrachloroethane	1.092	1.092	1.092	1.092	1.092	1.092	1.092	1.092	1.092	1.092
1,2,3-Trichloropropane	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102	1.102
Cumene	1.107	1.107	1.107	1.107	1.107	1.107	1.107	1.107	1.107	1.107
n-Propylbenzene	1.144	1.144	1.144	1.144	1.144	1.144	1.143	1.143	1.144	1.144
2-chlorotoluene	1.147	1.146	1.147	1.147	1.147	1.147	1.146	1.146	1.147	1.147
4-Ethyltoluene	1.154	1.154	1.154	1.154	1.154	1.154	1.154	1.153	1.154	1.154
1,3,5-Trimethylbenzene	1.160	1.160	1.160	1.160	1.160	1.160	1.159	1.159	1.160	1.160
Alpha-Methylstyrene	NA	NA	1.176	1.176	1.176	1.176	1.176	1.175	1.176	1.176
Decane	NA	1.179	1.179	1.179	1.179	1.179	1.178	1.178	1.179	1.179
tert-butylbenzene	1.189	1.189	1.189	1.189	1.189	1.189	1.188	1.188	1.189	1.189
1,2,4-Trimethylbenzene	NA	1.190	1.190	1.190	1.190	1.190	1.189	1.189	1.190	1.190
sec-butylbenzene	1.207	1.207	1.207	1.207	1.207	1.207	1.207	1.206	1.207	1.207
1,3-Dichlorobenzene	NA	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208	1.208
Benzyl Chloride	NA	1.215	1.215	1.215	1.215	1.215	1.214	1.214	1.214	1.215
1,4-Dichlorobenzene	NA	1.215	1.215	1.215	1.215	1.215	1.214	1.214	1.214	1.215
p-Cymene	NA	1.218	1.218	1.218	1.218	1.218	1.218	1.218	1.218	1.218
~ 1,2,3- Trimethylbenzene	1.222	1.222	1.222	1.222	1.222	1.222	1.222	1.221	1.222	1.222
~ n-butylcyclohexane	1.224	1.224	1.224	1.224	1.224	1.224	1.224	1.224	1.224	1.224
~ Indane	1.239	1.239	1.239	1.239	1.239	1.239	1.238	1.238	1.239	1.239
1,2-Dichlorobenzene	NA	1.239	1.239	1.239	1.239	1.239	1.239	1.238	1.239	1.239
n-butylbenzene	NA	1.248	1.248	1.248	1.248	1.248	1.248	1.247	1.248	1.248
~ Indene	1.248	1.248	1.248	1.248	1.248	1.248	1.248	1.247	1.248	1.248
Undecane	NA	NA	1.269	1.269	1.269	1.269	1.268	1.268	1.268	1.268
~ 1,2-dimethyl-4-ethylenzene	NA	1.274	1.274	1.274	1.274	1.274	1.273	1.273	1.273	1.274
~ 1,2,4,5-tetramethylbenzene	NA	1.299	1.300	1.300	1.299	1.299	1.299	1.298	1.299	1.299
~ 1,2,3,5-tetramethylbenzene	NA	1.303	1.303	1.303	1.303	1.303	1.303	1.302	1.303	1.303
~ 1,2,3,4-tetramethylbenzene	NA	1.329	1.329	1.329	1.329	1.329	1.329	1.328	1.329	1.329

Evaluation Criteria
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Target compound RRT within 0.06 RRT of the RRT mean
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INITIAL CALIBRATION RT and RRT REPORT

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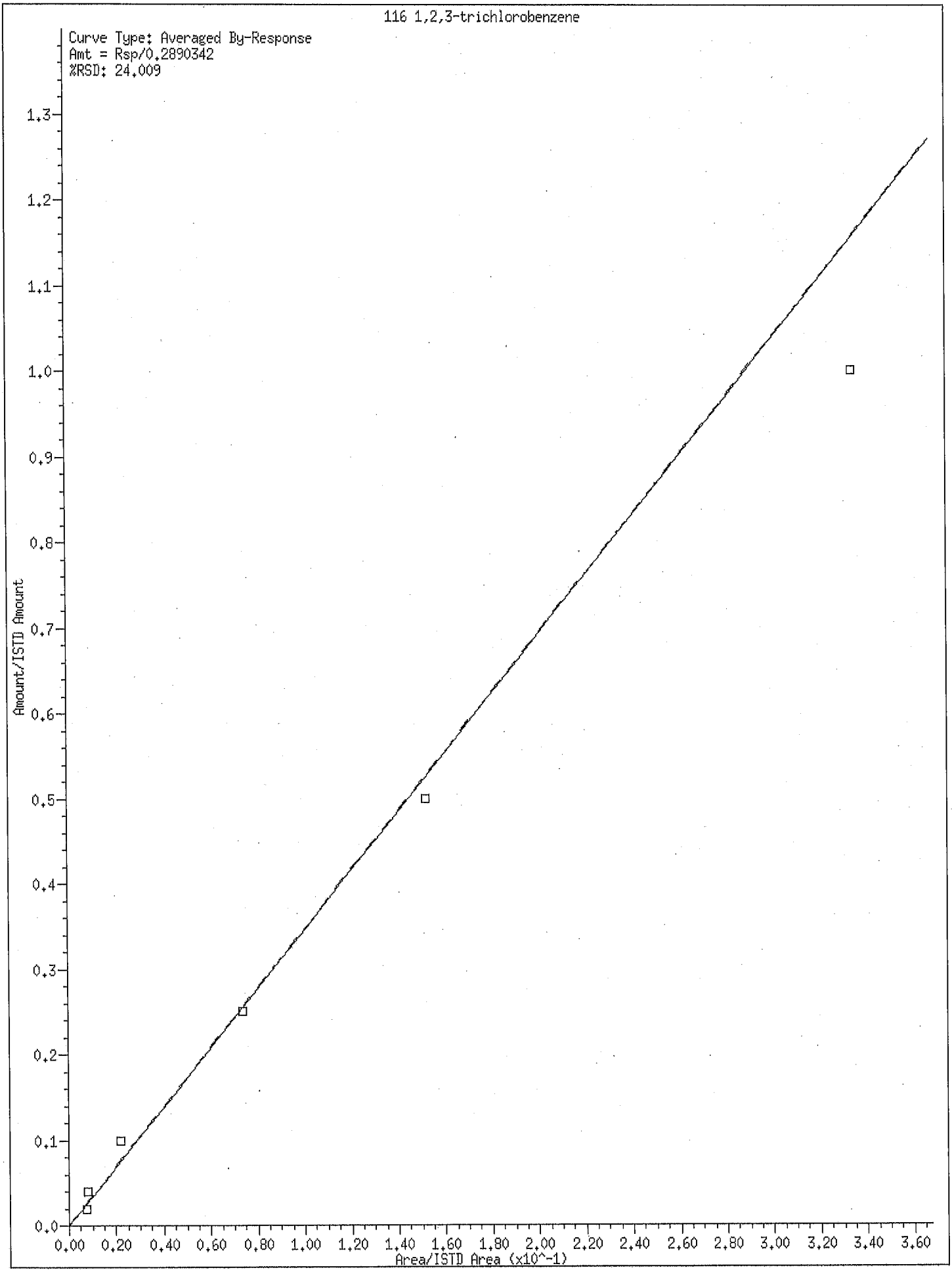
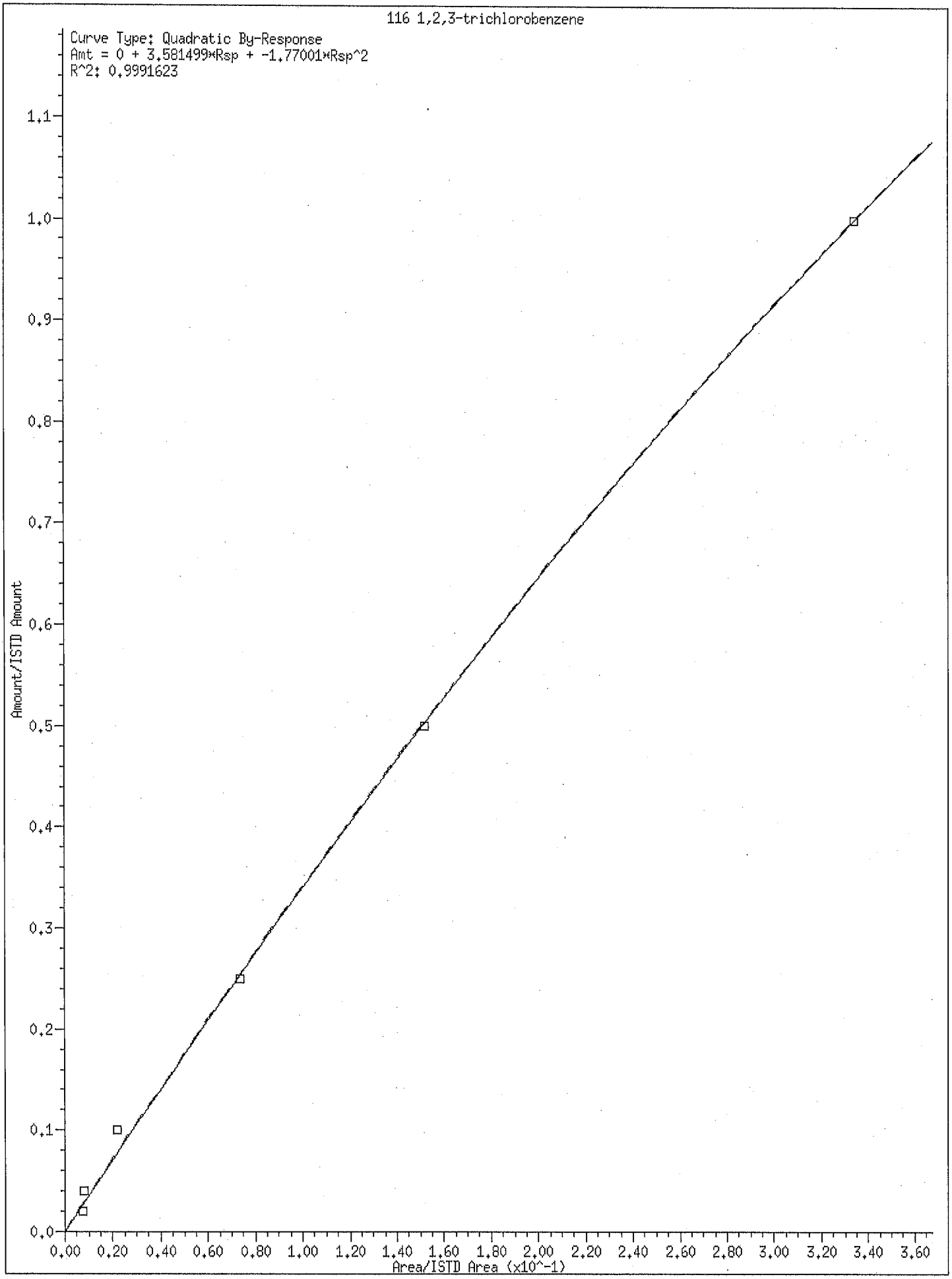
STD 7 = /var/chem/gcms/mg.i/G121611I.b/gicl167.d
STD 8 = /var/chem/gcms/mg.i/G121611I.b/gicl168.d
STD 9 = /var/chem/gcms/mg.i/G121611I.b/gicl169.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
Dodecane	NA	1.339	1.339	1.339	1.339	1.339	1.339	NA	NA	1.339
1,2,4-Trichlorobenzene	NA	1.352	1.352	1.352	1.352	1.352	1.352	1.351	1.352	1.352
Napthalene	NA	1.361	1.361	1.361	1.361	1.361	1.361	1.360	1.361	1.361
~ benzo(b) thiophene	NA	1.368	1.368	1.368	1.368	1.368	1.368	1.367	1.368	1.368
Hexachlorobutadiene	NA	1.376	1.376	1.376	1.376	1.375	1.375	1.374	1.375	1.375
1,2,3-trichlorobenzene	NA	1.380	1.380	1.380	1.380	1.380	1.380	NA	NA	1.380

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.


116 1,2,3-trichlorobenzene
Curve Type: Averaged By-Response
Amt = Rsp/0.2890342
%RSD: 24.009
Amount/ISTD Amount
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60 2.80 3.00 3.20 3.40 3.60
Area/ISTD Area (x10^-1)


116 1,2,3-trichlorobenzene
Curve Type: Quadratic By-Response
Amt = 0 + 3.581499*Rsp + -1.77001*Rsp^2
R^2: 0.9991623
Amount/ISTD Amount
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
0.00 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.20 2.40 2.60 2.80 3.00 3.20 3.40 3.60
Area/ISTD Area (x10^-1)

Report Date : 19-Dec-2011 14:57

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Calibration File Names:
Level 1: /var/chem/gcms/mg.i/G121611I.b/gicl161.d
Level 2: /var/chem/gcms/mg.i/G121611I.b/gicl162.d
Level 3: /var/chem/gcms/mg.i/G121611I.b/gicl163.d
Level 4: /var/chem/gcms/mg.i/G121611I.b/gicl164.d
Level 5: /var/chem/gcms/mg.i/G121611I.b/gicl165.d
Level 6: /var/chem/gcms/mg.i/G121611I.b/gicl166.d
Level 7: /var/chem/gcms/mg.i/G121611I.b/gicl167.d
Level 8: /var/chem/gcms/mg.i/G121611I.b/gicl168.d
Level 9: /var/chem/gcms/mg.i/G121611I.b/gicl169.d

Compound	0.0400 Level 1 / 4 Level 7	0.0800 Level 2 / 8 Level 8	0.1600 Level 3 / 16 Level 9	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
M 83 Xylene (total)	0.99563	1.10266	0.98912	0.99742	1.01380	0.93697					
	0.95604	0.92856	0.81164				AVRG		0.97020		8.09712
5 Chlorodifluoromethane	0.48906	0.55582	0.46784	0.39678	0.39738	0.39217					
	0.35045	0.33450	0.35528				AVRG		0.41547		17.74523
6 Propene	+++++	+++++	1.44049	1.05829	1.05070	1.05657					
	0.92819	0.85459	0.88078				AVRG		1.03852		18.98866

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INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1 / 4 Level 7	0.0800 Level 2 / 8 Level 8	0.1600 Level 3 / 16 Level 9	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2	
7 Dichlorodifluoromethane	4.23725	4.23567	4.00378	3.85502	3.92088	3.95396						
	3.48686	3.33421	3.51231				AVRG		3.83777		8.48755	
8 Chloromethane	0.51212	0.41417	0.42641	0.35502	0.34620	0.35747						
	0.31215	0.31125	0.30526				AVRG		0.37112		18.38919	
9 1,2-Dichlorotetrafluoroethane	2.87034	2.63543	2.46388	2.36146	2.41550	2.47281						
	2.19580	2.27084	2.42413				AVRG		2.45669		8.11289	
10 Methanol	+++++	+++++	+++++	+++++	0.88172	0.68247						
	0.68712	0.64132	0.50378				AVRG		0.67928		19.92788	
11 ~ acetaldehyde	+++++	+++++	+++++	0.31139	0.18715	0.13462						
	0.17580	0.11397	0.11160				AVRG		0.17242		43.46796	<- NA
12 Vinyl Chloride	1.45753	1.52282	1.38090	1.31344	1.28270	1.31375						
	1.18584	1.19161	1.19174				AVRG		1.31559		9.15250	
13 n-Butane	2.57521	2.41694	2.16234	1.99139	1.93266	1.94034						
	1.77224	1.73771	1.71070				AVRG		2.02661		14.97888	

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Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1 / 4 Level 7	0.0800 Level 2 / 8 Level 8	0.1600 Level 3 / 16 Level 9	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
14 1,3-Butadiene	1.16828	1.10205	1.00137	0.94297	0.90346	0.93895					
	0.86535	0.84363	0.84655				AVRG		0.95696		11.94258
15 Bromomethane	1.42293	1.30733	1.24897	1.18414	1.13496	1.20545					
	1.09930	1.14116	1.18974				AVRG		1.21489		8.22309
16 Chloroethane	0.73806	0.73734	0.71544	0.66928	0.61864	0.66426					
	0.61630	0.63421	0.64744				AVRG		0.67122		7.17650
17 ~ ethanol	+++++	0.60224	0.40580	0.37804	0.35359	0.30915					
	0.33616	0.32426	0.26094				AVRG		0.37127		27.76284
18 Vinyl Bromide	1.46929	1.28968	1.18304	1.14031	1.10039	1.16663					
	1.08836	1.12100	1.19142				AVRG		1.19446		9.99178
19 2-methyl butane	1.69146	1.48392	1.45408	1.35308	1.26701	1.34482					
	1.25855	1.30111	1.29435				AVRG		1.38315		10.10395
20 Trichlorofluoromethane	4.31586	3.97925	3.90200	3.82325	3.78344	3.95690					
	3.60367	3.57514	3.72801				AVRG		3.85194		5.83457

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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1 / 4 Level 7	0.0800 Level 2 / 8 Level 8	0.1600 Level 3 / 16 Level 9	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	Coefficients m1	Coefficients m2	%RSD or R^2
21 Acrolein	+++++	+++++	0.51312	0.40107	0.33842	0.32691					
	0.36434	0.36884	0.33554				AVRG		0.37832		17.07567
22 Acetonitrile	+++++	+++++	0.42932	0.33491	0.33037	0.31671					
	0.36922	0.42710	0.38097				AVRG		0.36980		12.36361
25 Pentane	+++++	0.27251	0.26552	0.23241	0.22138	0.23775					
	0.22930	0.23685	0.24201				AVRG		0.24222		7.33065
23 Acetone	+++++	+++++	+++++	+++++	0.55018	0.42073					
	0.57597	0.41117	0.33980				AVRG		0.45957		21.74702
24 Isopropyl alcohol	+++++	+++++	1.43224	1.39041	1.39232	1.17278					
	1.33295	1.22559	1.09040				AVRG		1.29096		10.01789
26 Ethyl Ether	1.45164	1.80901	1.51414	1.47803	1.47538	1.33121					
	1.35828	1.27101	1.15037				AVRG		1.42656		12.96893
27 1,1-Dichloroethene	1.42340	1.18308	1.14031	1.09878	1.07921	1.14719					
	1.04969	1.04602	1.08887				AVRG		1.13962		10.15856

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End Cal Date : 16-DEC-2011 19:51
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Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
29 Acrylonitrile	0.90987	1.05511	0.85318	0.85168	0.85283	0.77590					
	0.79814	0.76911	0.69195				AVRG		0.83975		12.23377
30 1,1,2-Trichlorotrifluoroethan	2.80161	2.55944	2.51326	2.45106	2.43251	2.49429					
	2.25517	2.25194	2.37792				AVRG		2.45969		6.79409
28 tert-butanol	+++++	+++++	1.23111	1.56074	1.92595	1.40960					
	1.98310	1.38308	1.52900				AVRG		1.57466		17.85872
31 Methylene Chloride	+++++	+++++	1.35610	1.15655	1.08531	1.07768					
	0.96497	0.94988	0.98053				AVRG		1.08157		13.19279
32 3-Chloropropene	1.41799	1.29208	1.29794	1.25925	1.25332	1.27874					
	1.12368	1.08340	1.11859				AVRG		1.23611		8.69686
33 Carbon Disulfide	4.74820	4.17613	4.16900	3.86124	3.83032	3.98973					
	3.61239	3.54923	3.68700				AVRG		3.95814		9.38177
35 - 2-Methyl Pentane	3.64770	3.33639	3.14163	3.15440	3.06278	3.12114					
	2.74676	2.62471	2.66314				AVRG		3.05541		10.89192

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Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
34 trans-1,2-Dichloroethene	1.65098	1.42102	1.43254	1.39217	1.34925	1.40947					
	1.27077	1.25840	1.30204				AVRG		1.38740		8.53358
36 Methyl-t-Butyl Ether	3.74890	4.38165	3.60953	3.62055	3.62934	3.25980					
	3.45069	3.37135	2.95683				AVRG		3.55874		10.98762
37 1,1-Dichloroethane	2.83409	2.64251	2.50560	2.42235	2.40540	2.47979					
	2.22404	2.17914	2.26241				AVRG		2.43948		8.57336
38 Vinyl Acetate	2.76584	3.52283	3.05261	3.09411	3.24242	2.89265					
	3.06663	2.92637	2.62006				AVRG		3.02039		8.76405
39 2-Butanone	+++++	+++++	0.64244	0.57094	0.56980	0.48191					
	0.55845	0.52624	0.44385				AVRG		0.54195		12.02022
40 Hexane	1.49942	1.32186	1.22915	1.13364	1.10260	1.12914					
	1.00586	0.97983	1.02170				AVRG		1.15813		14.52693
41 cis 1,2-Dichloroethene	1.53637	1.38260	1.33989	1.27838	1.27032	1.34337					
	1.20626	1.19799	1.26544				AVRG		1.31340		7.90726

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INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
42 Ethyl acetate	+++++	3.04851	2.42637	2.52786	2.63927	2.28385					
	2.53612	2.44165	2.03083				AVRG		2.49181		11.72459
43 Chloroform	3.30621	3.14731	3.01665	2.90405	2.86759	2.92864					
	2.66717	2.60676	2.67703				AVRG		2.90238		8.00209
44 Tetrahydrofuran	1.24924	1.54515	1.32251	1.32671	1.38547	1.18509					
	1.28375	1.24532	1.06309				AVRG		1.28959		10.36046
45 1,1,1-Trichloroethane	3.57945	3.37565	3.31487	3.21150	3.19523	3.27745					
	2.93473	2.88957	2.97428				AVRG		3.19475		7.10010
46 1,2-Dichloroethane	0.44371	0.41722	0.41001	0.39460	0.39871	0.40159					
	0.37099	0.36064	0.36081				AVRG		0.39537		6.96927
49 Cyclohexane	0.19210	0.15652	0.14640	0.13744	0.13307	0.14188					
	0.12468	0.12367	0.12726				AVRG		0.14256		15.06830
48 Benzene	0.89010	0.80730	0.77696	0.74398	0.73310	0.74727					
	0.69743	0.68694	0.68409				AVRG		0.75191		8.79928

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INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
50 Carbon Tetrachloride	0.73713	0.65084	0.66107	0.63962	0.63646	0.69268					
	0.60572	0.59244	0.61360				AVRG		0.64773		6.98559
51 ~ 2,3-dimethylpentane	0.24466	0.18939	0.18757	0.17431	0.17338	0.18408					
	0.16429	0.16126	0.16470				AVRG		0.18263		13.94636
47 1-Butanol	+++++	+++++	0.05693	0.06504	0.08195	0.06116					
	0.07918	0.05582	0.06246				AVRG		0.06608		15.76156
52 ~ Thiophene	0.53321	0.45494	0.44477	0.41651	0.41819	0.43775					
	0.39566	0.39237	0.39462				AVRG		0.43200		10.24958
53 2,2,4-trimethylpentane	1.49821	1.31492	1.34537	1.24913	1.22794	1.26821					
	1.13548	1.11226	1.10267				AVRG		1.25046		10.17567
54 Heptane	0.37634	0.31830	0.31703	0.28959	0.28844	0.29792					
	0.27095	0.26937	0.26756				AVRG		0.29950		11.52499
55 1,2-Dichloropropane	0.31561	0.29415	0.27520	0.26837	0.27090	0.26448					
	0.25327	0.24703	0.23357				AVRG		0.26917		9.15041

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INITIAL CALIBRATION DATA

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End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
56 Trichloroethene	0.46166	0.38041	0.36774	0.34412	0.34456	0.36458					
	0.32882	0.32972	0.34050				AVRG		0.36246		11.34917
180 ~ 2-nitropropane	+++++	+++++	+++++	0.67760	0.57199	0.50924					
	0.54961	0.53366	0.44038				AVRG		0.54708		14.31353
57 Dibromomethane	0.38205	0.34195	0.32850	0.31131	0.31278	0.32927					
	0.29611	0.29360	0.29454				AVRG		0.32112		8.89225
58 Bromodichloromethane	0.73654	0.66222	0.63466	0.62404	0.63573	0.65878					
	0.60232	0.59673	0.58954				AVRG		0.63784		7.06924
60 Methyl Methacrylate	+++++	0.36384	0.29573	0.30785	0.32861	0.29319					
	0.32289	0.31481	0.26198				AVRG		0.31111		9.58224
59 1,4-dioxane	+++++	0.11373	0.09201	0.09567	0.10035	0.09421					
	0.09764	0.09128	0.08198				AVRG		0.09586		9.44566
61 ~ methyl cyclohexane	0.57069	0.49343	0.49439	0.45808	0.45148	0.47692					
	0.42872	0.42315	0.42946				AVRG		0.46959		9.91899

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INITIAL CALIBRATION DATA

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End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
63 cis-1,3-Dichloropropene	0.51688	0.47698	0.44623	0.44728	0.44654	0.44054					
	0.42968	0.41947	0.40040				AVRG		0.44711		7.52405
62 4-Methyl-2-pentanone	+++++	0.55565	0.46682	0.45994	0.45943	0.45497					
	0.45630	0.42836	0.40168				AVRG		0.46039		9.58657
64 trans-1,3-Dichloropropene	0.54788	0.54813	0.50836	0.50606	0.52194	0.50565					
	0.50473	0.49815	0.46070				AVRG		0.51129		5.19861
65 Toluene	1.12910	1.09977	0.98270	0.97264	0.98002	0.92365					
	0.92710	0.91374	0.84143				AVRG		0.97446		9.31580
66 1,1,2-Trichloroethane	0.31762	0.32190	0.28710	0.28835	0.29008	0.27694					
	0.27440	0.27297	0.24956				AVRG		0.28655		7.82668
67 ~ 2-methyl thiophene	0.91835	0.88704	0.79728	0.84632	0.83300	0.78235					
	0.78439	0.77914	0.72080				AVRG		0.81652		7.45359
68 ~ 3-methyl thiophene	0.91493	0.86130	0.80065	0.81697	0.81464	0.78089					
	0.78090	0.77043	0.71295				AVRG		0.80596		7.11838

Report Date : 19-Dec-2011 14:57

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
69 2-Hexanone	+++++	0.30691	0.21558	0.22876	0.23434	0.23324					
	0.24608	0.23333	0.22067				AVRG		0.23986		11.93089
70 Octane	0.41203	0.37963	0.35313	0.33965	0.34372	0.34309					
	0.32291	0.31870	0.30095				AVRG		0.34598		9.64208
71 Dibromochloromethane	0.66836	0.64318	0.60218	0.61853	0.64518	0.64836					
	0.63894	0.63800	0.61209				AVRG		0.63498		3.22762
72 1,2-Dibromoethane	0.59175	0.56665	0.53027	0.53063	0.54582	0.53556					
	0.53021	0.52928	0.49244				AVRG		0.53918		5.11766
73 Tetrachloroethene	0.47659	0.38636	0.38164	0.36453	0.36153	0.36972					
	0.34505	0.34671	0.33668				AVRG		0.37431		11.16608
75 ~ 2,3-dimethylheptane	1.13261	1.01847	0.92204	0.90346	0.87965	0.84611					
	0.79126	0.73269	0.64385				AVRG		0.87446		16.74443
74 Chlorobenzene	0.90502	0.82887	0.78197	0.76753	0.77945	0.75812					
	0.74637	0.74154	0.69015				AVRG		0.77767		7.78079

Report Date : 19-Dec-2011 14:57

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1 4 Level 7	0.0800 Level 2 8 Level 8	0.1600 Level 3 16 Level 9	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
76 Ethylbenzene	1.25479 1.21653	1.37734 1.19232	1.25361 1.05493	1.25304	1.27506	1.18716	 AVRG		 1.22942		 7.01635
77 ~ 2-ethyl thiophene	1.01531 0.97198	1.06793 0.95227	0.98022 0.85842	0.98579	1.01313	0.96087	 AVRG		 0.97844		 5.83416
78 m&p-Xylene	0.97096 0.94468	1.08655 0.91976	0.97589 0.80510	0.97987	1.00035	0.92615	 AVRG		 0.95659		 7.86647
79 Nonane	+++++ 0.58452	0.70712 0.55477	0.61278 0.49340	0.62148	0.63092	0.60007	 AVRG		 0.60063		 10.28271
80 Bromoform	+++++ 0.67947	0.62359 0.69547	0.58449 0.65465	0.61049	0.65721	0.66388	 AVRG		 0.64616		 5.74134
81 Styrene	0.62428 0.74326	0.70266 0.74710	0.65341 0.67050	0.72651	0.76532	0.72876	 AVRG		 0.70687		 6.75583
82 o-Xylene	1.04491 0.97876	1.13489 0.94617	1.01556 0.82473	1.03251	1.04070	0.95862	 AVRG		 0.99743		 8.60183

Report Date : 19-Dec-2011 14:57

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
84 1,1,2,2-Tetrachloroethane	0.66696	0.77139	0.65774	0.67571	0.70410	0.65355					
	0.67077	0.65242	0.56385				AVRG		0.66850		8.10097
85 1,2,3-Trichloropropane	0.20704	0.25684	0.22137	0.22499	0.23562	0.21405					
	0.22383	0.22064	0.18900				AVRG		0.22149		8.42874
86 Cumene	1.44306	1.67628	1.44982	1.45938	1.48505	1.37975					
	1.42314	1.38629	1.20215				AVRG		1.43388		8.59021
87 n-Propylbenzene	0.32859	0.41187	0.36487	0.37071	0.39804	0.36589					
	0.38769	0.38184	0.33217				AVRG		0.37130		7.47803
88 2-chlorotoluene	0.36106	0.40598	0.35443	0.35295	0.37071	0.35304					
	0.35354	0.34747	0.31319				AVRG		0.35693		6.76449
89 4-Ethyltoluene	1.17383	1.54738	1.31975	1.39265	1.47825	1.35962					
	1.42497	1.40219	1.19110				AVRG		1.36553		8.99498
90 1,3,5-Trimethylbenzene	0.54170	0.72349	0.62256	0.63668	0.67274	0.61980					
	0.65008	0.64451	0.55910				AVRG		0.63007		8.73085

Report Date : 19-Dec-2011 14:57

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
91 Alpha-Methylstyrene	+++++	+++++	0.47716	0.52260	0.58545	0.56172					
	0.59256	0.58874	0.51754				AVRG		0.54940		8.07688
92 Decane	+++++	0.63587	0.50127	0.59445	0.72095	0.61293					
	0.68870	0.64798	0.55083				AVRG		0.61912		11.50660
93 tert-butylbenzene	1.05066	1.42598	1.18309	1.20842	1.27555	1.15889					
	1.21642	1.19751	1.04085				AVRG		1.19526		9.65424
94 1,2,4-Trimethylbenzene	+++++	1.25451	1.05408	1.12003	1.18976	1.08924					
	1.14411	1.11975	0.95814				AVRG		1.11620		7.93509
95 sec-butylbenzene	1.36398	1.82814	1.54805	1.60532	1.70704	1.56067					
	1.63047	1.58742	1.35716				AVRG		1.57647		9.47677
96 1,3-Dichlorobenzene	+++++	0.80707	0.69990	0.74626	0.79809	0.76482					
	0.78136	0.77816	0.71872				AVRG		0.76180		4.95022
97 Benzyl Chloride	+++++	1.02657	0.85552	0.95632	1.08486	0.99960					
	1.09430	1.07199	0.90495				AVRG		0.99926		8.77293

Report Date : 19-Dec-2011 14:57

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
98 1,4-Dichlorobenzene	+++++	0.78535	0.67427	0.72295	0.78407	0.75480					
	0.77810	0.77779	0.71664				AVRG		0.74925		5.42646
99 p-Cymene	+++++	1.46300	1.18790	1.30107	1.42855	1.27870					
	1.36708	1.33242	1.12820				AVRG		1.31086		8.66143
100 ~ 1,2,3- Trimethylbenzene	0.81045	1.08422	0.86770	0.94386	1.02357	0.91605					
	0.96320	0.92749	0.78125				AVRG		0.92420		10.40858
101 ~ n-butylcyclohexane	0.75433	0.94098	0.80872	0.83593	0.88125	0.81506					
	0.80633	0.76429	0.68530				AVRG		0.81024		9.12004
102 ~ Indane	0.92423	1.10597	0.94862	0.97288	1.05068	0.96819					
	0.99386	0.97102	0.84955				AVRG		0.97611		7.44983
103 1,2-Dichlorobenzene	+++++	0.78637	0.66129	0.69669	0.75666	0.71206					
	0.72415	0.71501	0.65413				AVRG		0.71330		6.22998
104 n-butylbenzene	+++++	1.10854	0.89883	1.06295	1.25622	1.11803					
	1.21407	1.16118	0.96237				AVRG		1.09777		11.01227

Report Date : 19-Dec-2011 14:57

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
105 ~ Indene	0.64744	0.76329	0.63339	0.71019	0.80903	0.74451					
	0.78383	0.77719	0.67582				AVRG		0.72719		8.71018
106 Undecane	+++++	+++++	0.37379	0.38443	0.39215	0.46989					
	0.48486	0.54654	0.46435				AVRG		0.44514		14.33353
107 ~ 1,2-dimethyl-4-ethylenzene	+++++	0.95971	0.70528	0.87607	1.09927	1.00357					
	1.11865	1.06618	0.90848				AVRG		0.96715		14.19354
108 ~ 1,2,4,5-tetramethylbenzene	+++++	0.75885	0.60649	0.65425	0.85817	0.85271					
	1.06567	0.95042	0.88361				AVRG		0.82877		18.24913
109 ~ 1,2,3,5-tetramethylbenzene	+++++	0.60392	0.45971	0.50357	0.66205	0.64571					
	0.80393	0.69874	0.65963				AVRG		0.62966		17.27177
110 ~ 1,2,3,4-tetramethylbenzene	+++++	0.66800	0.47132	0.52264	0.63281	0.68005					
	0.83479	0.65986	0.69522				AVRG		0.64559		17.14953
111 Dodecane	+++++	0.42289	0.25333	0.26313	0.30893	0.38906					
	0.30353	+++++	+++++				AVRG		0.32348		21.12813

Report Date : 19-Dec-2011 14:57

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
112 1,2,4-Trichlorobenzene	+++++	0.41811	0.25731	0.28934	0.39661	0.38804					
	0.47584	0.29188	0.38300				AVRG		0.36252		20.74169
113 Napthalene	+++++	0.82275	0.52443	0.58394	0.81077	0.82001					
	0.95712	0.66514	0.76362				AVRG		0.74347		19.17641
114 - benzo(b) thiophene	+++++	0.57832	0.35112	0.37051	0.54305	0.53711					
	0.61197	0.40152	0.49299				AVRG		0.48582		20.43236
115 Hexachlorobutadiene	+++++	0.60286	0.30789	0.39526	0.54282	0.44949					
	0.53571	0.33769	0.43512				AVRG		0.45085		23.01228
116 1,2,3-trichlorobenzene	+++++	15461	15940	43611	149208	289865					
	734551	+++++	+++++				QUAD	0.000e+00	3.58150	-1.77001	0.99916
117 - 2-Methylnaphthalene	+++++	+++++	0.05307	0.04931	0.07384	0.08671					
	0.06388	0.04119	0.06388				AVRG		0.06170		25.03043
118 - 1-Methylnaphthalene	+++++	+++++	0.04606	0.04403	0.06305	0.07272					
	0.05282	0.03480	0.05274				AVRG		0.05232		24.00961

Report Date : 19-Dec-2011 14:57

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
$ 4 4-Bromofluorobenzene	0.67375	0.74336	0.73726	0.73794	0.74355	0.74422					
	0.72578	0.71198	0.70096				AVRG		0.72431		3.36012

Report Date : 19-Dec-2011 14:57

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 16-DEC-2011 12:39
End Cal Date : 16-DEC-2011 19:51
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Cal Date : 19-Dec-2011 14:15 tajh

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl161.d
Report Date: 19-Dec-2011 14:58

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G121611I.b/gicl161.d
Lab Smp Id: ICAL1 Client Smp ID: 0.04PPB
Inj Date : 16-DEC-2011 12:39
Operator : 7126 Inst ID: mg.i
Smp Info : ICAL1,,1,1,,0.04PPB
Misc Info : G121611I,TO15,allmdl.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Meth Date : 19-Dec-2011 14:58 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 12:39 Cal File: gicl161.d
Als bottle: 8 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allmdl.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.238	8.243	(1.000)	424898	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.362	10.368	(1.000)	2049986	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.172	15.172	(1.000)	1860070	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.838	16.844	(1.110)	1253229	4.00000	3.721
	5 Chlorodifluoromethane	67	3.692	3.687	(0.448)	2078	0.04000	0.04710
	6 Propene	41	3.697	3.692	(0.449)	10081	0.04000	0.07150
	7 Dichlorodifluoromethane	85	3.740	3.735	(0.454)	18004	0.04000	0.04416
	8 Chloromethane	52	3.891	3.891	(0.472)	2176	0.04000	0.05521
	9 1,2-Dichlorotetrafluoroethane	135	3.897	3.891	(0.473)	12196	0.04000	0.04673
	10 Methanol	31	4.037	4.037	(0.490)	9536	0.04000	0.1320
	11 ~ acetaldehyde	44	4.032	4.032	(0.489)	40172	0.00000	2.193
	12 Vinyl Chloride	62	4.037	4.032	(0.490)	6193	0.04000	0.04431
	13 n-Butane	43	4.102	4.102	(0.498)	10942	0.04000	0.05083
	14 1,3-Butadiene	54	4.102	4.107	(0.498)	4964	0.04000	0.04886
	15 Bromomethane	94	4.382	4.382	(0.532)	6046	0.04000	0.04685
	16 Chloroethane	64	4.495	4.495	(0.546)	3136	0.04000	0.04398

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl161.d
Report Date: 19-Dec-2011 14:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 ~ ethanol	31	4.646	4.636	(0.564)	13182	0.20880	0.3134
18 Vinyl Bromide	106	4.760	4.754	(0.578)	6243	0.04000	0.04921
19 2-methyl butane	43	4.781	4.781	(0.580)	7187	0.04000	0.04892
20 Trichlorofluoromethane	101	4.975	4.975	(0.604)	18338	0.04000	0.04482
21 Acrolein	56	5.029	5.024	(0.610)	2582	0.04000	0.06431
22 Acetonitrile	40	5.099	5.105	(0.619)	93	0.04000	0.002373
23 Acetone	58	5.164	5.148	(0.627)	21789	0.04000	0.4461
24 Isopropyl alcohol	45	5.277	5.245	(0.641)	12692	0.04000	0.08292
25 Pentane	72	5.148	5.159	(0.625)	1327	0.04000	0.04998
26 Ethyl Ether	31	5.363	5.342	(0.651)	6168	0.04000	0.04069
27 1,1-Dichloroethene	96	5.595	5.590	(0.679)	6048	0.04000	0.04999
28 tert-butanol	59	5.833	5.773	(0.708)	11953	0.04000	0.06642
29 Acrylonitrile	53	5.741	5.741	(0.697)	3866	0.04000	0.04336
30 1,1,2-Trichlorotrifluoroethane	101	5.746	5.741	(0.698)	11904	0.04000	0.04556
31 Methylene Chloride	84	5.914	5.914	(0.718)	9218	0.04000	0.08023
32 3-Chloropropene	39	5.919	5.919	(0.719)	6025	0.04000	0.04588
33 Carbon Disulfide	76	6.032	6.032	(0.732)	20175	0.04000	0.04800
34 trans-1,2-Dichloroethene	96	6.615	6.620	(0.803)	7015	0.04000	0.04760
35 ~ 2-Methyl Pentane	43	6.604	6.604	(0.802)	15499	0.04000	0.04776
36 Methyl-t-Butyl Ether	73	6.841	6.793	(0.830)	15929	0.04000	0.04214
37 1,1-Dichloroethane	63	7.014	7.014	(0.851)	12042	0.04000	0.04647
38 Vinyl Acetate	43	7.148	7.143	(0.868)	11752	0.04000	0.03659
39 2-Butanone	72	7.644	7.612	(0.928)	5426	0.04000	0.09423
40 Hexane	56	7.499	7.494	(0.910)	6371	0.04000	0.05178
41 cis 1,2-Dichloroethene	96	7.925	7.936	(0.962)	6528	0.04000	0.04680
42 Ethyl acetate	43	8.211	8.173	(0.997)	9925	0.04000	0.05060
43 Chloroform	83	8.248	8.254	(1.001)	14048	0.04000	0.04556
44 Tetrahydrofuran	42	8.815	8.734	(1.070)	5308	0.04000	0.05046
45 1,1,1-Trichloroethane	97	9.192	9.198	(1.116)	15209	0.04000	0.04481
46 1,2-Dichloroethane	62	9.327	9.332	(0.900)	9096	0.04000	0.04490
47 1-Butanol	31	9.996	9.915	(0.965)	3264	0.04000	0.09635
48 Benzene	78	9.780	9.785	(0.944)	18247	0.04000	0.04736
49 Cyclohexane	69	9.742	9.737	(0.940)	3938	0.04000	0.05388
50 Carbon Tetrachloride	117	9.791	9.796	(0.945)	15111	0.04000	0.04553
51 ~ 2,3-dimethylpentane	71	9.861	9.855	(0.952)	5166	0.04120	0.05521
52 ~ Thiophene	84	10.066	10.071	(0.971)	11368	0.04160	0.05138
53 2,2,4-trimethylpentane	57	10.508	10.503	(1.014)	30713	0.04000	0.04793
54 Heptane	71	10.901	10.902	(1.052)	7715	0.04000	0.05027
55 1,2-Dichloropropane	63	11.042	11.042	(1.066)	6470	0.04000	0.04691
56 Trichloroethene	130	11.063	11.069	(1.068)	9464	0.04000	0.05096
57 Dibromomethane	93	11.171	11.177	(1.078)	7832	0.04000	0.04760
58 Bromodichloromethane	83	11.322	11.328	(1.093)	15099	0.04000	0.04620
59 1,4-dioxane	88	11.532	11.452	(1.113)	2017	0.04000	0.04107
60 Methyl Methacrylate	41	11.489	11.473	(1.109)	5848	0.04000	0.03664
61 ~ methyl cyclohexane	83	11.802	11.802	(1.139)	12167	0.04160	0.05057
62 4-Methyl-2-pentanone	43	12.401	12.352	(1.197)	10023	0.04000	0.1058
63 cis-1,3-Dichloropropene	75	12.352	12.352	(1.192)	10596	0.04000	0.04627

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl161.d
Report Date: 19-Dec-2011 14:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
64	trans-1,3-Dichloropropene	75	13.075	13.075	(0.862)	10191	0.04000	0.04286
65	Toluene	91	13.161	13.161	(0.867)	21002	0.04000	0.04635
66	1,1,2-Trichloroethane	83	13.274	13.274	(0.875)	5908	0.04000	0.04433
67	~ 2-methyl thiophene	97	13.323	13.323	(0.878)	17936	0.04200	0.04703
68	~ 3-methyl thiophene	97	13.522	13.528	(0.891)	17699	0.04160	0.04722
69	2-Hexanone	58	13.754	13.716	(0.907)	5487	0.04000	0.04920
70	Octane	85	13.835	13.835	(0.912)	7664	0.04000	0.04764
71	Dibromochloromethane	129	13.970	13.975	(0.921)	12432	0.04000	0.04210
72	1,2-Dibromoethane	107	14.256	14.256	(0.940)	11007	0.04000	0.04390
73	Tetrachloroethene	129	14.309	14.310	(0.943)	8865	0.04000	0.05090
74	Chlorobenzene	112	15.221	15.221	(1.003)	16834	0.04000	0.04655
75	~ 2,3-dimethylheptane	43	15.210	15.210	(1.002)	21910	0.04160	0.05386
76	Ethylbenzene	91	15.512	15.507	(1.022)	23340	0.04000	0.04082
77	~ 2-ethyl thiophene	97	15.620	15.620	(1.029)	19452	0.04120	0.04275
78	m&p-Xylene	91	15.674	15.674	(1.033)	36121	0.08000	0.08120
79	Nonane	57	16.084	16.084	(1.060)	10482	0.04000	0.03754
80	Bromoform	173	16.137	16.143	(1.064)	11749	0.04000	0.03910
81	Styrene	104	16.154	16.154	(1.065)	11612	0.04000	0.03536
82	o-Xylene	91	16.202	16.208	(1.068)	19436	0.04000	0.04188
M 83	Xylene (total)	100				55558	0.12000	0.1231
84	1,1,2,2-Tetrachloroethane	83	16.574	16.569	(1.092)	12406	0.04000	0.03991
85	1,2,3-Trichloropropane	110	16.725	16.725	(1.102)	3851	0.04000	0.03741
86	Cumene	105	16.795	16.801	(1.107)	26842	0.04000	0.04026
87	n-Propylbenzene	120	17.351	17.351	(1.144)	6112	0.04000	0.03540
88	2-chlorotoluene	126	17.399	17.399	(1.147)	6716	0.04000	0.04047
89	4-Ethyltoluene	105	17.512	17.513	(1.154)	21834	0.04000	0.03439
90	1,3,5-Trimethylbenzene	120	17.593	17.593	(1.160)	10076	0.04000	0.03440
91	Alpha-Methylstyrene	118	17.847	17.847	(1.176)	7448	0.04000	0.02914
92	Decane	57	17.885	17.885	(1.179)	11490	0.04000	0.03991
93	tert-butylbenzene	119	18.036	18.036	(1.189)	19543	0.04000	0.03516
94	1,2,4-Trimethylbenzene	105	18.052	18.052	(1.190)	16866	0.04000	0.03250
95	sec-butylbenzene	105	18.316	18.316	(1.207)	25371	0.04000	0.03461
96	1,3-Dichlorobenzene	146	18.332	18.332	(1.208)	14774	0.04000	0.04171
97	Benzyl Chloride	91	18.429	18.429	(1.215)	16623	0.04000	0.03580
98	1,4-Dichlorobenzene	146	18.429	18.429	(1.215)	14332	0.04000	0.04114
99	p-Cymene	119	18.489	18.489	(1.219)	20643	0.04000	0.03387
100	~ 1,2,3- Trimethylbenzene	105	18.542	18.543	(1.222)	15678	0.04160	0.03648
101	~ n-butylcyclohexane	83	18.575	18.575	(1.224)	14452	0.04120	0.03835
102	~ Indane	117	18.796	18.796	(1.239)	17707	0.04120	0.03900
103	1,2-Dichlorobenzene	146	18.801	18.801	(1.239)	13697	0.04000	0.04130
104	n-butylbenzene	91	18.936	18.936	(1.248)	18809	0.04000	0.03685
105	~ Indene	116	18.936	18.936	(1.248)	12645	0.04200	0.03739
106	Undecane	57	19.249	19.249	(1.269)	13022	0.04000	0.06290
107	~ 1,2-dimethyl-4-ethylenzene	119	19.324	19.324	(1.274)	18333	0.04120	0.04077
108	~ 1,2,4,5-tetramethylbenzene	119	19.718	19.713	(1.300)	19066	0.04120	0.04949
109	~ 1,2,3,5-tetramethylbenzene	119	19.772	19.772	(1.303)	15991	0.04200	0.05462
110	~ 1,2,3,4-tetramethylbenzene	119	20.166	20.166	(1.329)	18166	0.04080	0.06054

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl161.d
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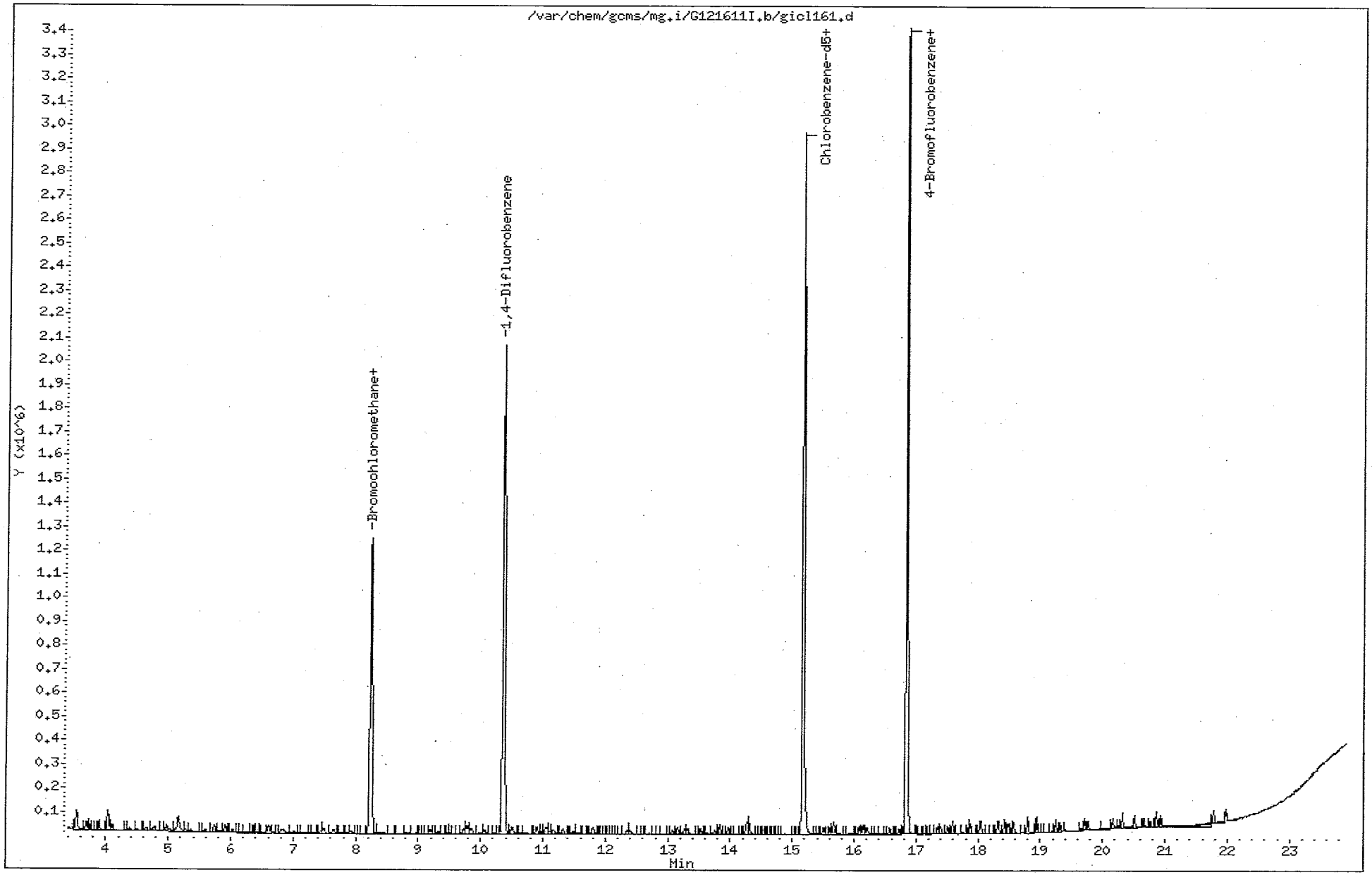
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.322	20.317	(1.339)	14941	0.04000	0.08905
112 1,2,4-Trichlorobenzene	180	20.516	20.516	(1.352)	12356	0.04000	0.07331
113 Napthalene	128	20.656	20.656	(1.361)	24751	0.04000	0.07272
114 ~ benzo(b) thiophene	134	20.764	20.764	(1.369)	17532	0.04080	0.07760
115 Hexachlorobutadiene	225	20.867	20.867	(1.375)	12134	0.04000	0.05788
116 1,2,3-trichlorobenzene	180	20.942	20.942	(1.380)	11925	0.04000	0.09377
117 ~ 2-Methylnaphthalene	142	21.783	21.783	(1.436)	24709	0.25000	0.8614
118 ~ 1-Methylnaphthalene	142	21.983	21.983	(1.449)	22471	0.25000	0.8473

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl161.d
Date : 16-DEC-2011 12:39
Client ID: 0.04PPB
Sample Info: ICAL1,,1,1,,,0.04PPB
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mg.i/G121611I.b/gicl162.d
Report Date: 19-Dec-2011 14:58

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G121611I.b/gicl162.d
Lab Smp Id: ICAL2 Client Smp ID: 0.08PPB
Inj Date : 16-DEC-2011 13:30
Operator : 7126 Inst ID: mg.i
Smp Info : ICAL2,,1,2,,0.08PPB
Misc Info : G121611I,TO15,allmdl.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Meth Date : 19-Dec-2011 14:58 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 13:30 Cal File: gicl162.d
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allmdl.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.238	8.243	(1.000)	416498	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.362	10.368	(1.000)	2188164	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.172	15.172	(1.000)	2018963	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.839	16.844	(1.110)	1500818	4.00000	4.105
5 Chlorodifluoromethane	67	3.687	3.687	(0.448)	4630	0.08000	0.1070
6 Propene	41	3.692	3.692	(0.448)	19184	0.08000	0.1388
7 Dichlorodifluoromethane	85	3.735	3.735	(0.453)	35283	0.08000	0.08828
8 Chloromethane	52	3.886	3.891	(0.472)	3450	0.08000	0.08876
9 1,2-Dichlorotetrafluoroethane	135	3.892	3.891	(0.472)	21953	0.08000	0.08581
10 Methanol	31	4.037	4.037	(0.490)	18950	0.08000	0.2677
11 ~ acetaldehyde	44	4.032	4.032	(0.489)	86135	0.00000	4.798
12 Vinyl Chloride	62	4.032	4.032	(0.489)	12685	0.08000	0.09258
13 n-Butane	43	4.102	4.102	(0.498)	20133	0.08000	0.09540
14 1,3-Butadiene	54	4.107	4.107	(0.499)	9180	0.08000	0.09216
15 Bromomethane	94	4.377	4.382	(0.531)	10890	0.08000	0.08608
16 Chloroethane	64	4.495	4.495	(0.546)	6142	0.08000	0.08787

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl162.d
Report Date: 19-Dec-2011 14:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 ~ ethanol	31	4.641	4.636	(0.563)	26187	0.41760	0.6369
18 Vinyl Bromide	106	4.749	4.754	(0.576)	10743	0.08000	0.08638
19 2-methyl butane	43	4.776	4.781	(0.580)	12361	0.08000	0.08629
20 Trichlorofluoromethane	101	4.975	4.975	(0.604)	33147	0.08000	0.08264
21 Acrolein	56	5.024	5.024	(0.610)	7295	0.08000	0.1853
22 Acetonitrile	40	5.094	5.105	(0.618)	3207	0.08000	0.08290
23 Acetone	58	5.148	5.148	(0.625)	52647	0.08000	1.100
24 Isopropyl alcohol	45	5.261	5.245	(0.639)	27093	0.08000	0.1802
25 Pentane	72	5.153	5.159	(0.626)	2270	0.08000	0.08719
26 Ethyl Ether	31	5.358	5.342	(0.650)	15069	0.08000	0.1014
27 1,1-Dichloroethene	96	5.585	5.590	(0.678)	9855	0.08000	0.08309
28 tert-butanol	59	5.811	5.773	(0.705)	23654	0.08000	0.1338
29 Acrylonitrile	53	5.741	5.741	(0.697)	8789	0.08000	0.1006
30 1,1,2-Trichlorotrifluoroethane	101	5.736	5.741	(0.696)	21320	0.08000	0.08324
31 Methylene Chloride	84	5.908	5.914	(0.717)	13298	0.08000	0.1181
32 3-Chloropropene	39	5.908	5.919	(0.717)	10763	0.08000	0.08361
33 Carbon Disulfide	76	6.027	6.032	(0.732)	34787	0.08000	0.08440
34 trans-1,2-Dichloroethene	96	6.620	6.620	(0.804)	11837	0.08000	0.08192
35 ~ 2-Methyl Pentane	43	6.604	6.604	(0.802)	27792	0.08000	0.08735
36 Methyl-t-Butyl Ether	73	6.825	6.793	(0.828)	36499	0.08000	0.09851
37 1,1-Dichloroethane	63	7.008	7.014	(0.851)	22012	0.08000	0.08664
38 Vinyl Acetate	43	7.143	7.143	(0.867)	29345	0.08000	0.09320
39 2-Butanone	72	7.628	7.612	(0.926)	13813	0.08000	0.2447
40 Hexane	56	7.494	7.494	(0.910)	11011	0.08000	0.09129
41 cis 1,2-Dichloroethene	96	7.930	7.936	(0.963)	11517	0.08000	0.08414
42 Ethyl acetate	43	8.195	8.173	(0.995)	25394	0.08000	0.1321
43 Chloroform	83	8.249	8.254	(1.001)	26217	0.08000	0.08674
44 Tetrahydrofuran	42	8.782	8.734	(1.066)	12871	0.08000	0.1409
45 1,1,1-Trichloroethane	97	9.198	9.198	(1.117)	28119	0.08000	0.08452
46 1,2-Dichloroethane	62	9.322	9.332	(0.900)	18259	0.08000	0.08446
47 1-Butanol	31	9.974	9.915	(0.963)	6276	0.08000	0.1736
48 Benzene	78	9.780	9.785	(0.944)	35330	0.08000	0.08584
49 Cyclohexane	69	9.731	9.737	(0.939)	6850	0.08000	0.08783
50 Carbon Tetrachloride	117	9.796	9.796	(0.945)	28483	0.08000	0.08041
51 ~ 2,3-dimethylpentane	71	9.856	9.855	(0.951)	8537	0.08240	0.08549
52 ~ Thiophene	84	10.066	10.071	(0.971)	20706	0.08320	0.08769
53 2,2,4-trimethylpentane	57	10.503	10.503	(1.014)	57545	0.08000	0.08415
54 Heptane	71	10.902	10.902	(1.052)	13930	0.08000	0.08505
55 1,2-Dichloropropane	63	11.036	11.042	(1.065)	12873	0.08000	0.08746
56 Trichloroethene	130	11.063	11.069	(1.068)	16648	0.08000	0.08399
57 Dibromomethane	93	11.171	11.177	(1.078)	14965	0.08000	0.08522
58 Bromodichloromethane	83	11.322	11.328	(1.093)	28981	0.08000	0.08309
59 1,4-dioxane	88	11.511	11.452	(1.111)	4977	0.08000	0.09494
60 Methyl Methacrylate	41	11.484	11.473	(1.108)	15923	0.08000	0.09347
61 ~ methyl cyclohexane	83	11.802	11.802	(1.139)	22458	0.08320	0.08746
62 4-Methyl-2-pentanone	43	12.385	12.352	(1.195)	24317	0.08000	0.2405
63 cis-1,3-Dichloropropene	75	12.352	12.352	(1.192)	20874	0.08000	0.08542

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl162.d
Report Date: 19-Dec-2011 14:58

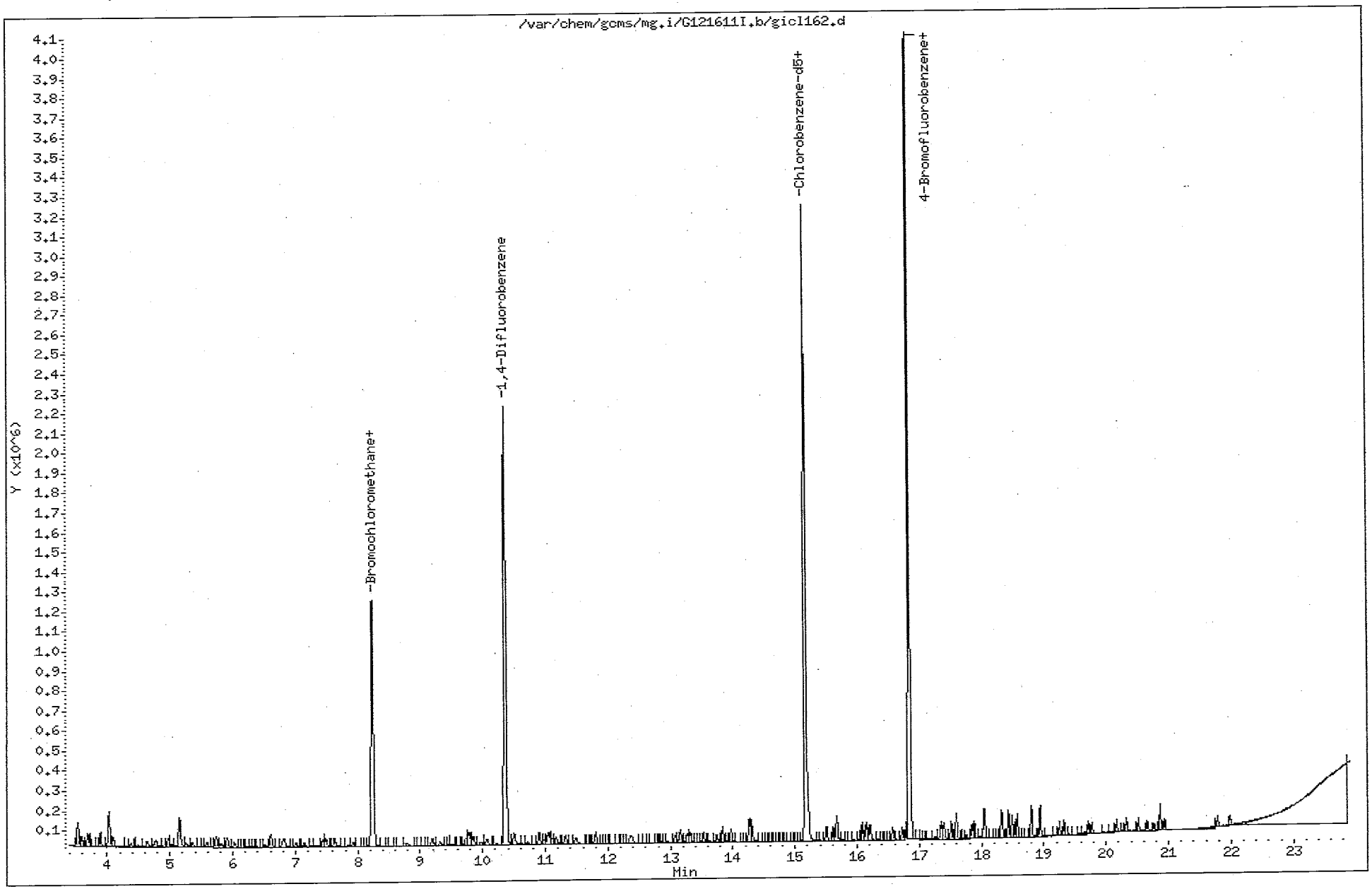
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
	64 trans-1,3-Dichloropropene	75	13.075	13.075	(0.862)	22133	0.08000	0.08577
	65 Toluene	91	13.156	13.161	(0.867)	44408	0.08000	0.09036
	66 1,1,2-Trichloroethane	83	13.274	13.274	(0.875)	12998	0.08000	0.08984
	67 ~ 2-methyl thiophene	97	13.317	13.323	(0.878)	37609	0.08400	0.09126
	68 ~ 3-methyl thiophene	97	13.522	13.528	(0.891)	36170	0.08320	0.08890
	69 2-Hexanone	58	13.743	13.716	(0.906)	12393	0.08000	0.1024
	70 Octane	85	13.835	13.835	(0.912)	15329	0.08000	0.08778
	71 Dibromochloromethane	129	13.970	13.975	(0.921)	25971	0.08000	0.08102
	72 1,2-Dibromoethane	107	14.256	14.256	(0.940)	22881	0.08000	0.08408
	73 Tetrachloroethene	129	14.310	14.310	(0.943)	15601	0.08000	0.08252
	74 Chlorobenzene	112	15.221	15.221	(1.003)	33469	0.08000	0.08527
	75 ~ 2,3-dimethylheptane	43	15.210	15.210	(1.002)	42770	0.08320	0.09687
	76 Ethylbenzene	91	15.507	15.507	(1.022)	55616	0.08000	0.08961
	77 ~ 2-ethyl thiophene	97	15.615	15.620	(1.029)	44416	0.08240	0.08994
	78 m&p-Xylene	91	15.674	15.674	(1.033)	87748	0.16000	0.1817
	79 Nonane	57	16.084	16.084	(1.060)	28553	0.08000	0.09420
	80 Bromoform	173	16.143	16.143	(1.064)	25180	0.08000	0.07721
	81 Styrene	104	16.154	16.154	(1.065)	28373	0.08000	0.07959
	82 o-Xylene	91	16.202	16.208	(1.068)	45826	0.08000	0.09103
M	83 Xylene (total)	100				133574	0.24000	0.2728
	84 1,1,2,2-Tetrachloroethane	83	16.574	16.569	(1.092)	31148	0.08000	0.09232
	85 1,2,3-Trichloropropane	110	16.720	16.725	(1.102)	10371	0.08000	0.09280
	86 Cumene	105	16.801	16.801	(1.107)	67687	0.08000	0.09352
	87 n-Propylbenzene	120	17.351	17.351	(1.144)	16631	0.08000	0.08875
	88 2-chlorotoluene	126	17.394	17.399	(1.146)	16393	0.08000	0.09100
	89 4-Ethyltoluene	105	17.513	17.513	(1.154)	62482	0.08000	0.09067
	90 1,3,5-Trimethylbenzene	120	17.594	17.593	(1.160)	29214	0.08000	0.09188
	91 Alpha-Methylstyrene	118	17.847	17.847	(1.176)	21330	0.08000	0.07690
	92 Decane	57	17.885	17.885	(1.179)	25676	0.08000	0.08216
	93 tert-butylbenzene	119	18.036	18.036	(1.189)	57580	0.08000	0.09544
	94 1,2,4-Trimethylbenzene	105	18.052	18.052	(1.190)	50656	0.08000	0.08992
	95 sec-butylbenzene	105	18.316	18.316	(1.207)	73819	0.08000	0.09277
	96 1,3-Dichlorobenzene	146	18.332	18.332	(1.208)	32589	0.08000	0.08477
	97 Benzyl Chloride	91	18.429	18.429	(1.215)	41452	0.08000	0.08224
	98 1,4-Dichlorobenzene	146	18.429	18.429	(1.215)	31712	0.08000	0.08385
	99 p-Cymene	119	18.489	18.489	(1.219)	59075	0.08000	0.08930
	100 ~ 1,2,3- Trimethylbenzene	105	18.543	18.543	(1.222)	45531	0.08320	0.09760
	101 ~ n-butylcyclohexane	83	18.575	18.575	(1.224)	39136	0.08240	0.09568
	102 ~ Indane	117	18.796	18.796	(1.239)	45998	0.08240	0.09335
	103 1,2-Dichlorobenzene	146	18.801	18.801	(1.239)	31753	0.08000	0.08820
	104 n-butylbenzene	91	18.942	18.936	(1.248)	44762	0.08000	0.08079
	105 ~ Indene	116	18.936	18.936	(1.248)	32362	0.08400	0.08816
	106 Undecane	57	19.249	19.249	(1.269)	18318	0.08000	0.08152
	107 ~ 1,2-dimethyl-4-ethylenzene	119	19.325	19.324	(1.274)	39915	0.08240	0.08178
	108 ~ 1,2,4,5-tetramethylbenzene	119	19.713	19.713	(1.299)	31561	0.08240	0.07548
	109 ~ 1,2,3,5-tetramethylbenzene	119	19.772	19.772	(1.303)	25605	0.08400	0.08057
	110 ~ 1,2,3,4-tetramethylbenzene	119	20.166	20.166	(1.329)	27513	0.08160	0.08448

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl162.d
Report Date: 19-Dec-2011 14:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.322	20.317	(1.339)	17076	0.08000	0.09279
112 1,2,4-Trichlorobenzene	180	20.516	20.516	(1.352)	16883	0.08000	0.09229
113 Napthalene	128	20.656	20.656	(1.361)	33222	0.08000	0.08993
114 ~ benzo(b) thiophene	134	20.764	20.764	(1.369)	23819	0.08160	0.09714
115 Hexachlorobutadiene	225	20.872	20.867	(1.376)	24343	0.08000	0.1070
116 1,2,3-trichlorobenzene	180	20.942	20.942	(1.380)	15461	0.08000	0.1120
117 ~ 2-Methylnaphthalene	142	21.783	21.783	(1.436)	24410	0.50000	0.7840
118 ~ 1-Methylnaphthalene	142	21.983	21.983	(1.449)	22725	0.50000	0.7894

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl162.d
Date : 16-DEC-2011 13:30
Client ID: 0.08PPB
Sample Info: ICAL2,,1,2,,0.08PPB
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mg.i/G121611I.b/gicl163.d
Report Date: 19-Dec-2011 14:58

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G121611I.b/gicl163.d
Lab Smp Id: ICAL3 Client Smp ID: 0.16PPB
Inj Date : 16-DEC-2011 14:28
Operator : 7126 Inst ID: mg.i
Smp Info : ICAL3,,1,3,,0.16PPB
Misc Info : G121611I,TO15,allmdl.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Meth Date : 19-Dec-2011 14:58 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 14:28 Cal File: gicl163.d
Als bottle: 9 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allmdl.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1 Bromochloromethane	128	8.238	8.243	(1.000)	421246	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.368	10.368	(1.000)	2157973	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.172	15.172	(1.000)	2001536	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.844	16.844	(1.110)	1475652	4.00000	4.071
5 Chlorodifluoromethane	67	3.686	3.687	(0.448)	7883	0.16000	0.1801
6 Propene	41	3.692	3.692	(0.448)	24272	0.16000	0.1736
7 Dichlorodifluoromethane	85	3.735	3.735	(0.453)	67463	0.16000	0.1669
8 Chloromethane	52	3.891	3.891	(0.472)	7185	0.16000	0.1827
9 1,2-Dichlorotetrafluoroethane	135	3.897	3.891	(0.473)	41516	0.16000	0.1604
10 Methanol	31	4.037	4.037	(0.490)	19668	0.16000	0.2747
11 ~ acetaldehyde	44	4.032	4.032	(0.489)	48356	0.80960	2.663
12 Vinyl Chloride	62	4.037	4.032	(0.490)	23268	0.16000	0.1679
13 n-Butane	43	4.102	4.102	(0.498)	36435	0.16000	0.1707
14 1,3-Butadiene	54	4.107	4.107	(0.499)	16873	0.16000	0.1670
15 Bromomethane	94	4.382	4.382	(0.532)	21045	0.16000	0.1645
16 Chloroethane	64	4.501	4.495	(0.546)	12055	0.16000	0.1705

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl163.d
Report Date: 19-Dec-2011 14:58

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17	~ ethanol	31	4.646	4.636	(0.564)	35693	0.83520	0.8583
18	Vinyl Bromide	106	4.754	4.754	(0.577)	19934	0.16000	0.1585
19	2-methyl butane	43	4.781	4.781	(0.580)	24501	0.16000	0.1691
20	Trichlorofluoromethane	101	4.975	4.975	(0.604)	65748	0.16000	0.1621
21	Acrolein	56	5.035	5.024	(0.611)	8646	0.16000	0.2172
22	Acetonitrile	40	5.110	5.105	(0.620)	7234	0.16000	0.1849
23	Acetone	58	5.159	5.148	(0.626)	22737	0.16000	0.4695
24	Isopropyl alcohol	45	5.277	5.245	(0.641)	24133	0.16000	0.1587
25	Pentane	72	5.153	5.159	(0.626)	4474	0.16000	0.1699
26	Ethyl Ether	31	5.363	5.342	(0.651)	25513	0.16000	0.1698
27	1,1-Dichloroethene	96	5.595	5.590	(0.679)	19214	0.16000	0.1602
28	tert-butanol	59	5.827	5.773	(0.707)	20744	0.16000	0.1160
29	Acrylonitrile	53	5.741	5.741	(0.697)	14376	0.16000	0.1626
30	1,1,2-Trichlorotrifluoroethane	101	5.741	5.741	(0.697)	42348	0.16000	0.1635
31	Methylene Chloride	84	5.913	5.914	(0.718)	22850	0.16000	0.2006
32	3-Chloropropene	39	5.919	5.919	(0.719)	21870	0.16000	0.1680
33	Carbon Disulfide	76	6.032	6.032	(0.732)	70247	0.16000	0.1685
34	trans-1,2-Dichloroethene	96	6.620	6.620	(0.804)	24138	0.16000	0.1652
35	~ 2-Methyl Pentane	43	6.604	6.604	(0.802)	52936	0.16000	0.1645
36	Methyl-t-Butyl Ether	73	6.825	6.793	(0.828)	60820	0.16000	0.1623
37	1,1-Dichloroethane	63	7.013	7.014	(0.851)	42219	0.16000	0.1643
38	Vinyl Acetate	43	7.154	7.143	(0.868)	51436	0.16000	0.1619
39	2-Butanone	72	7.639	7.612	(0.927)	10825	0.16000	0.1896
40	Hexane	56	7.493	7.494	(0.910)	20711	0.16000	0.1698
41	cis 1,2-Dichloroethene	96	7.925	7.936	(0.962)	22577	0.16000	0.1631
42	Ethyl acetate	43	8.200	8.173	(0.995)	40884	0.16000	0.2646
43	Chloroform	83	8.248	8.254	(1.001)	50830	0.16000	0.1663
44	Tetrahydrofuran	42	8.782	8.734	(1.066)	22284	0.16000	0.2988
45	1,1,1-Trichloroethane	97	9.197	9.198	(1.117)	55855	0.16000	0.1660
46	1,2-Dichloroethane	62	9.332	9.332	(0.900)	35392	0.16000	0.1659
47	1-Butanol	31	9.990	9.915	(0.964)	4914	0.16000	0.1378
48	Benzene	78	9.785	9.785	(0.944)	67066	0.16000	0.1651
49	Cyclohexane	69	9.742	9.737	(0.940)	12637	0.16000	0.1642
50	Carbon Tetrachloride	117	9.796	9.796	(0.945)	57063	0.16000	0.1633
51	~ 2,3-dimethylpentane	71	9.855	9.855	(0.951)	16677	0.16480	0.1693
52	~ Thiophene	84	10.071	10.071	(0.971)	39928	0.16640	0.1714
53	2,2,4-trimethylpentane	57	10.508	10.503	(1.014)	116131	0.16000	0.1722
54	Heptane	71	10.901	10.902	(1.051)	27366	0.16000	0.1694
55	1,2-Dichloropropane	63	11.036	11.042	(1.064)	23755	0.16000	0.1636
56	Trichloroethene	130	11.063	11.069	(1.067)	31743	0.16000	0.1623
57	Dibromomethane	93	11.171	11.177	(1.077)	28356	0.16000	0.1637
58	Bromodichloromethane	83	11.322	11.328	(1.092)	54783	0.16000	0.1592
59	1,4-dioxane	88	11.505	11.452	(1.110)	7942	0.16000	0.1532
60	Methyl Methacrylate	41	11.484	11.473	(1.108)	25527	0.16000	0.1520
61	~ methyl cyclohexane	83	11.802	11.802	(1.138)	44382	0.16640	0.1752
62	4-Methyl-2-pentanone	43	12.384	12.352	(1.195)	40295	0.16000	0.6470
63	cis-1,3-Dichloropropene	75	12.352	12.352	(1.191)	38518	0.16000	0.1598

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl163.d
Report Date: 19-Dec-2011 14:58

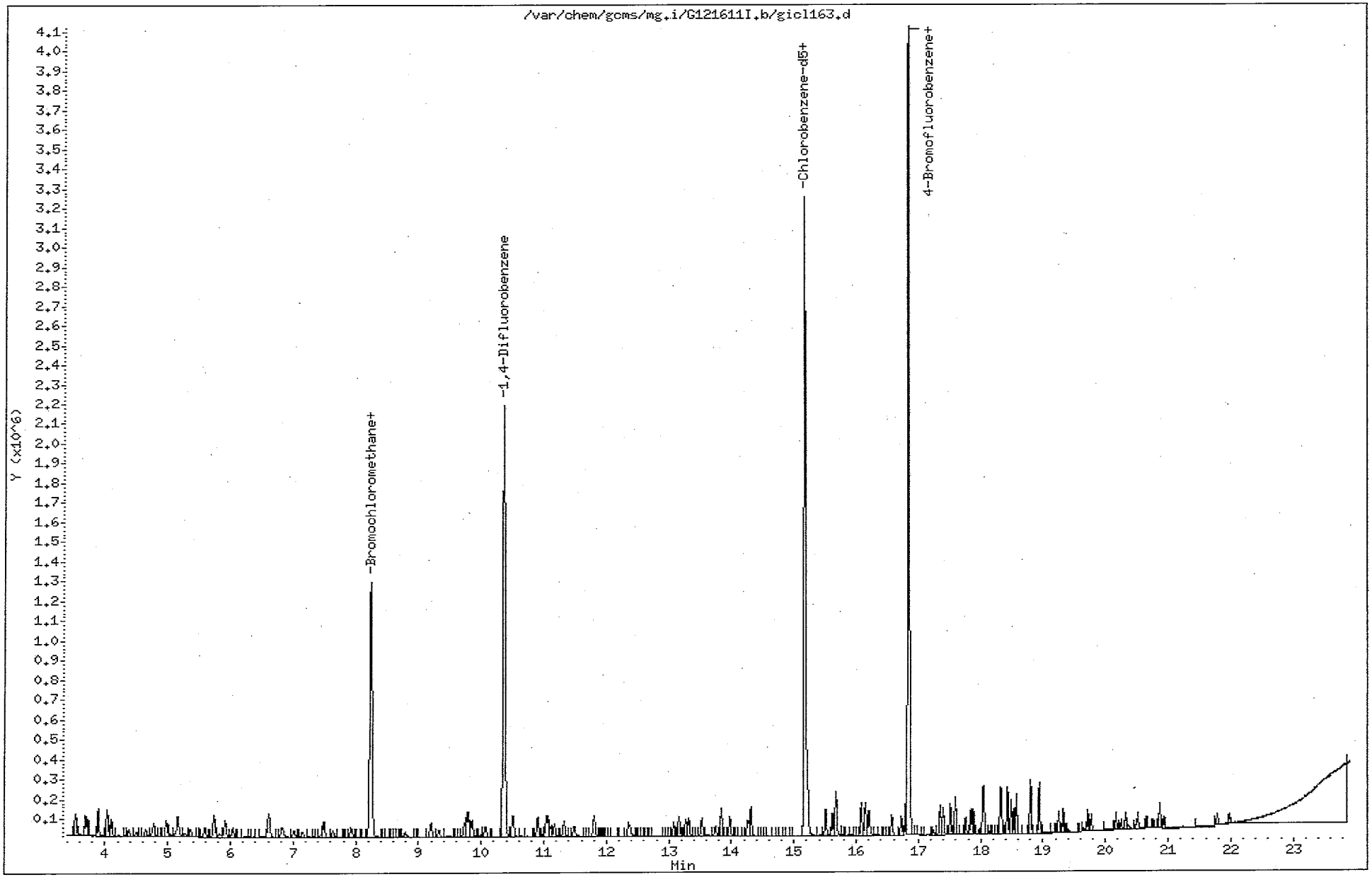
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
64	trans-1,3-Dichloropropene	75	13.075	13.075	(0.862)	40700	0.16000	0.1591
65	Toluene	91	13.161	13.161	(0.867)	78676	0.16000	0.1615
66	1,1,2-Trichloroethane	83	13.269	13.274	(0.875)	22986	0.16000	0.1605
67	~ 2-methyl thiophene	97	13.323	13.323	(0.878)	67023	0.16800	0.1640
68	~ 3-methyl thiophene	97	13.527	13.528	(0.892)	66665	0.16640	0.1652
69	2-Hexanone	58	13.743	13.716	(0.906)	17260	0.16000	0.1438
70	Octane	85	13.840	13.835	(0.912)	28272	0.16000	0.1633
71	Dibromochloromethane	129	13.975	13.975	(0.921)	48211	0.16000	0.1517
72	1,2-Dibromoethane	107	14.255	14.256	(0.940)	42454	0.16000	0.1574
73	Tetrachloroethene	129	14.309	14.310	(0.943)	30555	0.16000	0.1630
74	Chlorobenzene	112	15.221	15.221	(1.003)	62606	0.16000	0.1609
75	~ 2,3-dimethylheptane	43	15.210	15.210	(1.002)	76773	0.16640	0.1754
76	Ethylbenzene	91	15.512	15.507	(1.022)	100366	0.16000	0.1631
77	~ 2-ethyl thiophene	97	15.620	15.620	(1.029)	80832	0.16480	0.1651
78	m&p-Xylene	91	15.674	15.674	(1.033)	156263	0.32000	0.3264
79	Nonane	57	16.083	16.084	(1.060)	49060	0.16000	0.1633
80	Bromoform	173	16.143	16.143	(1.064)	46795	0.16000	0.1447
81	Styrene	104	16.154	16.154	(1.065)	52313	0.16000	0.1480
82	o-Xylene	91	16.207	16.208	(1.068)	81307	0.16000	0.1624
M 83	Xylene (total)	100				237571	0.48000	0.4888
84	1,1,2,2-Tetrachloroethane	83	16.569	16.569	(1.092)	52660	0.16000	0.1574
85	1,2,3-Trichloropropane	110	16.725	16.725	(1.102)	17723	0.16000	0.1600
86	Cumene	105	16.801	16.801	(1.107)	116075	0.16000	0.1618
87	n-Propylbenzene	120	17.351	17.351	(1.144)	29212	0.16000	0.1572
88	2-chlorotoluene	126	17.399	17.399	(1.147)	28376	0.16000	0.1589
89	4-Ethyltoluene	105	17.512	17.513	(1.154)	105661	0.16000	0.1547
90	1,3,5-Trimethylbenzene	120	17.593	17.593	(1.160)	49843	0.16000	0.1581
91	Alpha-Methylstyrene	118	17.847	17.847	(1.176)	38202	0.16000	0.1389
92	Decane	57	17.885	17.885	(1.179)	40132	0.16000	0.1295
93	tert-butylbenzene	119	18.036	18.036	(1.189)	94720	0.16000	0.1584
94	1,2,4-Trimethylbenzene	105	18.052	18.052	(1.190)	84391	0.16000	0.1511
95	sec-butylbenzene	105	18.316	18.316	(1.207)	123939	0.16000	0.1571
96	1,3-Dichlorobenzene	146	18.332	18.332	(1.208)	56035	0.16000	0.1470
97	Benzyl Chloride	91	18.429	18.429	(1.215)	68494	0.16000	0.1371
98	1,4-Dichlorobenzene	146	18.429	18.429	(1.215)	53983	0.16000	0.1440
99	p-Cymene	119	18.488	18.489	(1.219)	95105	0.16000	0.1450
100	~ 1,2,3- Trimethylbenzene	105	18.542	18.543	(1.222)	72248	0.16640	0.1562
101	~ n-butylcyclohexane	83	18.575	18.575	(1.224)	66690	0.16480	0.1644
102	~ Indane	117	18.796	18.796	(1.239)	78226	0.16480	0.1601
103	1,2-Dichlorobenzene	146	18.801	18.801	(1.239)	52944	0.16000	0.1483
104	n-butylbenzene	91	18.936	18.936	(1.248)	71962	0.16000	0.1310
105	~ Indene	116	18.936	18.936	(1.248)	53246	0.16800	0.1463
106	Undecane	57	19.249	19.249	(1.269)	29926	0.16000	0.1343
107	~ 1,2-dimethyl-4-ethylenzene	119	19.324	19.324	(1.274)	58160	0.16480	0.1202
108	~ 1,2,4,5-tetramethylbenzene	119	19.718	19.713	(1.300)	50013	0.16480	0.1206
109	~ 1,2,3,5-tetramethylbenzene	119	19.772	19.772	(1.303)	38645	0.16800	0.1226
110	~ 1,2,3,4-tetramethylbenzene	119	20.166	20.166	(1.329)	38489	0.16320	0.1192

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl163.d
Report Date: 19-Dec-2011 14:58

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.322	20.317	(1.339)	20282	0.16000	0.1112
112 1,2,4-Trichlorobenzene	180	20.516	20.516	(1.352)	20601	0.16000	0.1136
113 Napthalene	128	20.656	20.656	(1.361)	41987	0.16000	0.1146
114 ~ benzo(b) thiophene	134	20.764	20.764	(1.369)	28673	0.16320	0.1180
115 Hexachlorobutadiene	225	20.872	20.867	(1.376)	24650	0.16000	0.1093
116 1,2,3-trichlorobenzene	180	20.942	20.942	(1.380)	15940	0.16000	0.1165
117 ~ 2-Methylnaphthalene	142	21.789	21.783	(1.436)	26557	1.00000	0.8603
118 ~ 1-Methylnaphthalene	142	21.983	21.983	(1.449)	23050	1.00000	0.8077

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl163.d
Date : 16-DEC-2011 14:28
Client ID: 0.16PPB
Sample Info: ICAL3,,1,3,,0.16PPB
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mg.i/G121611I.b/gicl164.d
Report Date: 19-Dec-2011 14:58

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G121611I.b/gicl164.d
Lab Smp Id: ICAL4 Client Smp ID: 0.4PPB
Inj Date : 16-DEC-2011 15:23
Operator : 7126 Inst ID: mg.i
Smp Info : ICAL4,,1,4,,0.4PPB
Misc Info : G121611I,TO15,all.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Meth Date : 19-Dec-2011 14:58 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 15:23 Cal File: gicl164.d
Als bottle: 10 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.238	8.243	(1.000)	419782	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.362	10.368	(1.000)	2175641	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.172	15.172	(1.000)	1990325	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.844	16.844	(1.110)	1468748	4.00000	4.075
M	83 Xylene (total)	100				595557	1.20000	1.233
	5 Chlorodifluoromethane	67	3.686	3.687	(0.448)	16656	0.40000	0.3820
	6 Propene	41	3.692	3.692	(0.448)	44425	0.40000	0.3189
	7 Dichlorodifluoromethane	85	3.735	3.735	(0.453)	161827	0.40000	0.4018
	8 Chloromethane	52	3.891	3.891	(0.472)	14903	0.40000	0.3826
	9 1,2-Dichlorotetrafluoroethane	135	3.891	3.891	(0.472)	99130	0.40000	0.3845
	11 ~ acetaldehyde	44	4.032	4.032	(0.489)	66143	2.02400	3.655
	12 Vinyl Chloride	62	4.037	4.032	(0.490)	55136	0.40000	0.3993
	13 n-Butane	43	4.102	4.102	(0.498)	83595	0.40000	0.3930
	14 1,3-Butadiene	54	4.107	4.107	(0.499)	39584	0.40000	0.3943
	15 Bromomethane	94	4.382	4.382	(0.532)	49708	0.40000	0.3899
	16 Chloroethane	64	4.495	4.495	(0.546)	28095	0.40000	0.3988

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl164.d
Report Date: 19-Dec-2011 14:58

						AMOUNTS	
	QUANT SIG					CAL-AMT	ON-COL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ppb(v/v))	(ppb(v/v))
17 ~ ethanol	31	4.630	4.636	(0.562)	82838	2.08800	1.993
18 Vinyl Bromide	106	4.749	4.754	(0.576)	47868	0.40000	0.3819
19 2-methyl butane	43	4.776	4.781	(0.580)	56800	0.40000	0.3914
20 Trichlorofluoromethane	101	4.975	4.975	(0.604)	160493	0.40000	0.3970
21 Acrolein	56	5.024	5.024	(0.610)	16836	0.40000	0.4240
22 Acetonitrile	40	5.099	5.105	(0.619)	14059	0.40000	0.3606
25 Pentane	72	5.153	5.159	(0.626)	9756	0.40000	0.3718
23 Acetone	58	5.153	5.148	(0.626)	31976	0.40000	0.6626
24 Isopropyl alcohol	45	5.250	5.245	(0.637)	58367	0.40000	0.3860
26 Ethyl Ether	31	5.347	5.342	(0.649)	62045	0.40000	0.4143
27 1,1-Dichloroethene	96	5.590	5.590	(0.679)	46125	0.40000	0.3858
29 Acrylonitrile	53	5.736	5.741	(0.696)	35752	0.40000	0.4058
30 1,1,2-Trichlorotrifluoroethane	101	5.741	5.741	(0.697)	102891	0.40000	0.3986
28 tert-butanol	59	5.789	5.773	(0.703)	65517	0.40000	0.3670
31 Methylene Chloride	84	5.914	5.914	(0.718)	48550	0.40000	0.4277
32 3-Chloropropene	39	5.919	5.919	(0.719)	52861	0.40000	0.4075
33 Carbon Disulfide	76	6.032	6.032	(0.732)	162088	0.40000	0.3903
35 ~ 2-Methyl Pentane	43	6.604	6.604	(0.802)	132416	0.40000	0.4130
34 trans-1,2-Dichloroethene	96	6.620	6.620	(0.804)	58441	0.40000	0.4014
36 Methyl-t-Butyl Ether	73	6.803	6.793	(0.826)	151984	0.40000	0.4070
37 1,1-Dichloroethane	63	7.014	7.014	(0.851)	101686	0.40000	0.3972
38 Vinyl Acetate	43	7.143	7.143	(0.867)	129885	0.40000	0.4098
39 2-Butanone	72	7.617	7.612	(0.925)	23967	0.40000	0.4213
40 Hexane	56	7.493	7.494	(0.910)	47588	0.40000	0.3915
41 cis 1,2-Dichloroethene	96	7.930	7.936	(0.963)	53664	0.40000	0.3894
42 Ethyl acetate	43	8.178	8.173	(0.993)	106115	0.40000	0.4678
43 Chloroform	83	8.248	8.254	(1.001)	121907	0.40000	0.4002
44 Tetrahydrofuran	42	8.755	8.734	(1.063)	55693	0.40000	0.4671
45 1,1,1-Trichloroethane	97	9.192	9.198	(1.116)	134813	0.40000	0.4021
46 1,2-Dichloroethane	62	9.327	9.332	(0.900)	85851	0.40000	0.3993
49 Cyclohexane	69	9.737	9.737	(0.940)	29903	0.40000	0.3855
48 Benzene	78	9.780	9.785	(0.944)	161864	0.40000	0.3959
50 Carbon Tetrachloride	117	9.796	9.796	(0.945)	139159	0.40000	0.3951
51 ~ 2,3-dimethylpentane	71	9.850	9.855	(0.951)	39061	0.41200	0.3933
47 1-Butanol	31	9.952	9.915	(0.960)	14150	0.40000	0.3936
52 ~ Thiophene	84	10.066	10.071	(0.971)	94242	0.41600	0.4013
53 2,2,4-trimethylpentane	57	10.502	10.503	(1.014)	271766	0.40000	0.3997
54 Heptane	71	10.901	10.902	(1.052)	63005	0.40000	0.3868
55 1,2-Dichloropropane	63	11.036	11.042	(1.065)	58387	0.40000	0.3989
56 Trichloroethene	130	11.063	11.069	(1.068)	74869	0.40000	0.3798
180 ~ 2-nitropropane	43	11.106	11.106	(1.072)	117937	0.32000	0.3966
57 Dibromomethane	93	11.171	11.177	(1.078)	67729	0.40000	0.3879
58 Bromodichloromethane	83	11.322	11.328	(1.093)	135769	0.40000	0.3914
60 Methyl Methacrylate	41	11.478	11.473	(1.108)	66977	0.40000	0.3959
59 1,4-dioxane	88	11.473	11.452	(1.107)	20814	0.40000	0.3976
61 ~ methyl cyclohexane	83	11.802	11.802	(1.139)	103648	0.41600	0.4059
63 cis-1,3-Dichloropropene	75	12.352	12.352	(1.192)	97311	0.40000	0.4004

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
62 4-Methyl-2-pentanone	43	12.363	12.352	(1.193)	100066	0.40000	0.7596
64 trans-1,3-Dichloropropene	75	13.075	13.075	(0.862)	100722	0.40000	0.3959
65 Toluene	91	13.155	13.161	(0.867)	193586	0.40000	0.3993
66 1,1,2-Trichloroethane	83	13.269	13.274	(0.875)	57392	0.40000	0.4024
67 ~ 2-methyl thiophene	97	13.317	13.323	(0.878)	176868	0.42000	0.4334
68 ~ 3-methyl thiophene	97	13.528	13.528	(0.892)	169107	0.41600	0.4216
69 2-Hexanone	58	13.727	13.716	(0.905)	45530	0.40000	0.3815
70 Octane	85	13.835	13.835	(0.912)	67602	0.40000	0.3927
71 Dibromochloromethane	129	13.970	13.975	(0.921)	123107	0.40000	0.3896
72 1,2-Dibromoethane	107	14.255	14.256	(0.940)	105613	0.40000	0.3936
73 Tetrachloroethene	129	14.309	14.310	(0.943)	72553	0.40000	0.3893
75 ~ 2,3-dimethylheptane	43	15.210	15.210	(1.002)	187010	0.41600	0.4296
74 Chlorobenzene	112	15.221	15.221	(1.003)	152764	0.40000	0.3948
76 Ethylbenzene	91	15.507	15.507	(1.022)	249396	0.40000	0.4076
77 ~ 2-ethyl thiophene	97	15.620	15.620	(1.029)	202091	0.41200	0.4151
78 m&p-Xylene	91	15.674	15.674	(1.033)	390052	0.80000	0.8195
79 Nonane	57	16.084	16.084	(1.060)	123695	0.40000	0.4140
80 Bromoform	173	16.143	16.143	(1.064)	121508	0.40000	0.3779
81 Styrene	104	16.154	16.154	(1.065)	144600	0.40000	0.4115
82 o-Xylene	91	16.202	16.208	(1.068)	205504	0.40000	0.4136
84 1,1,2,2-Tetrachloroethane	83	16.569	16.569	(1.092)	134488	0.40000	0.4044
85 1,2,3-Trichloropropane	110	16.725	16.725	(1.102)	44781	0.40000	0.4065
86 Cumene	105	16.801	16.801	(1.107)	290465	0.40000	0.4071
87 n-Propylbenzene	120	17.351	17.351	(1.144)	73784	0.40000	0.3994
88 2-chlorotoluene	126	17.399	17.399	(1.147)	70248	0.40000	0.3956
89 4-Ethyltoluene	105	17.512	17.513	(1.154)	277183	0.40000	0.4080
90 1,3,5-Trimethylbenzene	120	17.593	17.593	(1.160)	126720	0.40000	0.4043
91 Alpha-Methylstyrene	118	17.847	17.847	(1.176)	104014	0.40000	0.3804
92 Decane	57	17.885	17.885	(1.179)	118315	0.40000	0.3840
93 tert-butylbenzene	119	18.036	18.036	(1.189)	240515	0.40000	0.4044
94 1,2,4-Trimethylbenzene	105	18.052	18.052	(1.190)	222922	0.40000	0.4014
95 sec-butylbenzene	105	18.316	18.316	(1.207)	319510	0.40000	0.4073
96 1,3-Dichlorobenzene	146	18.332	18.332	(1.208)	148530	0.40000	0.3919
97 Benzyl Chloride	91	18.429	18.429	(1.215)	190338	0.40000	0.3830
98 1,4-Dichlorobenzene	146	18.429	18.429	(1.215)	143890	0.40000	0.3860
99 p-Cymene	119	18.489	18.489	(1.219)	258955	0.40000	0.3971
100 ~ 1,2,3- Trimethylbenzene	105	18.542	18.543	(1.222)	195373	0.41600	0.4248
101 ~ n-butylcyclohexane	83	18.575	18.575	(1.224)	171368	0.41200	0.4250
102 ~ Indane	117	18.796	18.796	(1.239)	200412	0.41400	0.4126
103 1,2-Dichlorobenzene	146	18.801	18.801	(1.239)	138664	0.40000	0.3907
104 n-butylbenzene	91	18.936	18.936	(1.248)	211562	0.40000	0.3873
105 ~ Indene	116	18.936	18.936	(1.248)	148418	0.42000	0.4101
106 Undecane	57	19.249	19.249	(1.269)	76514	0.40000	0.3454
107 ~ 1,2-dimethyl-4-ethylenzene	119	19.324	19.324	(1.274)	179598	0.41200	0.3733
108 ~ 1,2,4,5-tetramethylbenzene	119	19.718	19.713	(1.300)	134124	0.41200	0.3254
109 ~ 1,2,3,5-tetramethylbenzene	119	19.772	19.772	(1.303)	105239	0.42000	0.3359
110 ~ 1,2,3,4-tetramethylbenzene	119	20.166	20.166	(1.329)	106103	0.40800	0.3305

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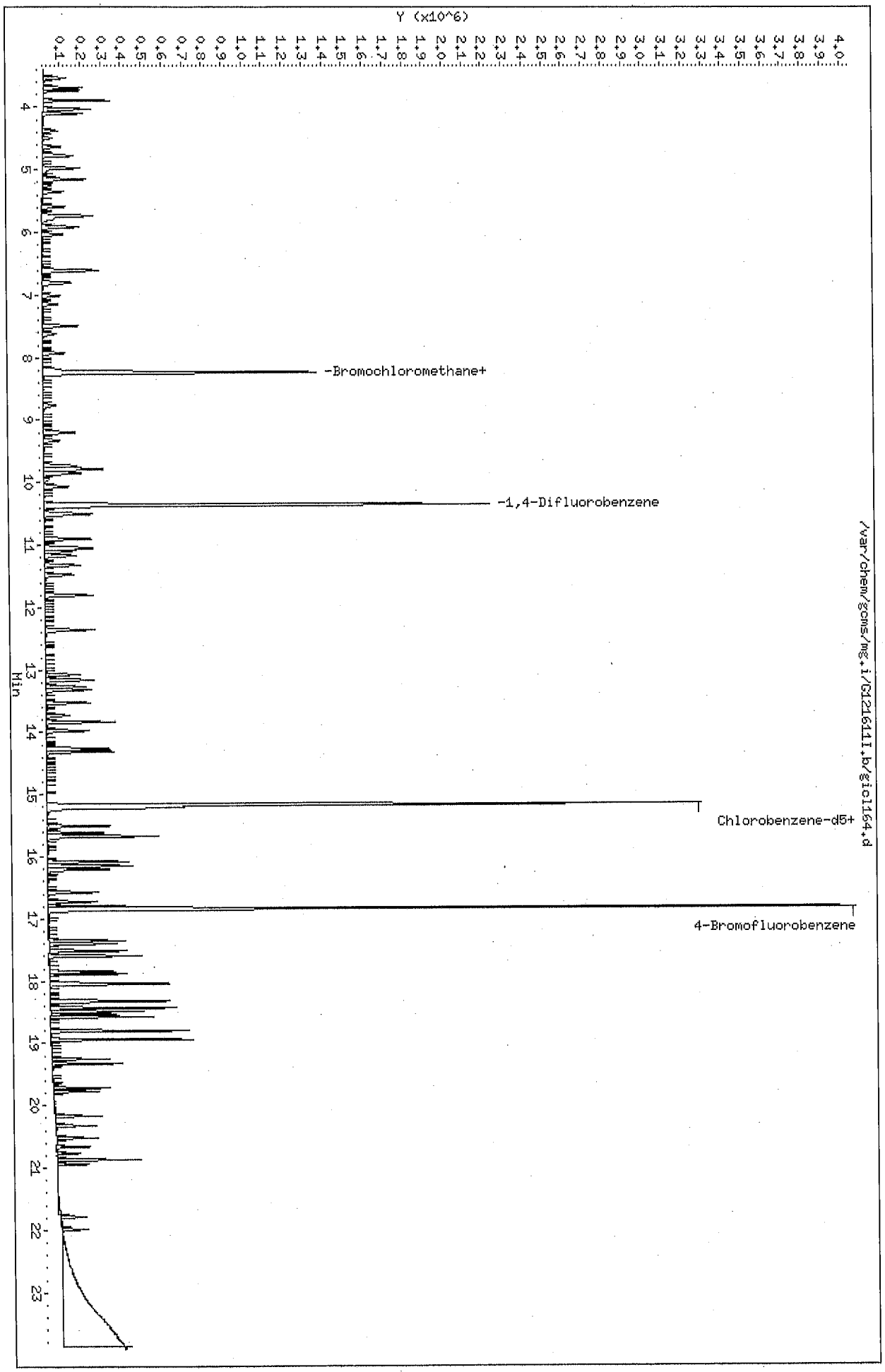
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.322	20.317	(1.339)	52372	0.40000	0.2917
112 1,2,4-Trichlorobenzene	180	20.516	20.516	(1.352)	57589	0.40000	0.3193
113 Napthalene	128	20.656	20.656	(1.361)	116224	0.40000	0.3191
114 ~ benzo(b) thiophene	134	20.764	20.764	(1.369)	75218	0.40800	0.3112
115 Hexachlorobutadiene	225	20.872	20.867	(1.376)	78669	0.40000	0.3507
116 1,2,3-trichlorobenzene	180	20.942	20.942	(1.380)	43611	0.40000	0.3205
117 ~ 2-Methylnaphthalene	142	21.789	21.783	(1.436)	61338	2.50000	1.998
118 ~ 1-Methylnaphthalene	142	21.983	21.983	(1.449)	54775	2.50000	1.930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Date : 16-DEC-2011 15:23
Client ID: 0.4PPB
Sample Info: ICAL4,,1.4,,0.4PPB
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mg.i
Operator: 7126
Column diameter: 0.32
/var/chem/gcms/mg.i/G121611I.b/gic164.d
Y (x10^6)
Min
-Bromochloromethane+
-1,4-Difluorobenzene
Chlorobenzene-d5+
4-Bromofluorobenzene

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl165.d
Report Date: 19-Dec-2011 14:59

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G121611I.b/gicl165.d
Lab Smp Id: ICAL5 Client Smp ID: 1.0PPB
Inj Date : 16-DEC-2011 16:17
Operator : 7126 Inst ID: mg.i
Smp Info : ICAL5,,1,5,,1.0PPB
Misc Info : G121611I,TO15,all.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Meth Date : 19-Dec-2011 14:58 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 16:17 Cal File: gicl165.d
Als bottle: 11 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.243	8.243	(1.000)	418926	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.368	10.368	(1.000)	2180015	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.172	15.172	(1.000)	2019842	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.844	16.844	(1.110)	1501853	4.00000	4.106
M	83 Xylene (total)	100				1535783	3.00000	3.134
	5 Chlorodifluoromethane	67	3.681	3.687	(0.447)	41618	1.00000	0.9564
	6 Propene	41	3.687	3.692	(0.447)	110041	1.00000	0.7916
	7 Dichlorodifluoromethane	85	3.735	3.735	(0.453)	410640	1.00000	1.022
	8 Chloromethane	52	3.886	3.891	(0.471)	36258	1.00000	0.9328
	9 1,2-Dichlorotetrafluoroethane	135	3.891	3.891	(0.472)	252979	1.00000	0.9832
	10 Methanol	31	4.037	4.037	(0.490)	92344	1.00000	1.297
	11 ~ acetaldehyde	44	4.032	4.032	(0.489)	99179	5.06000	5.492
	12 Vinyl Chloride	62	4.032	4.032	(0.489)	134339	1.00000	0.9748
	13 n-Butane	43	4.102	4.102	(0.498)	202410	1.00000	0.9536
	14 1,3-Butadiene	54	4.102	4.107	(0.498)	94621	1.00000	0.9445
	15 Bromomethane	94	4.377	4.382	(0.531)	118866	1.00000	0.9342

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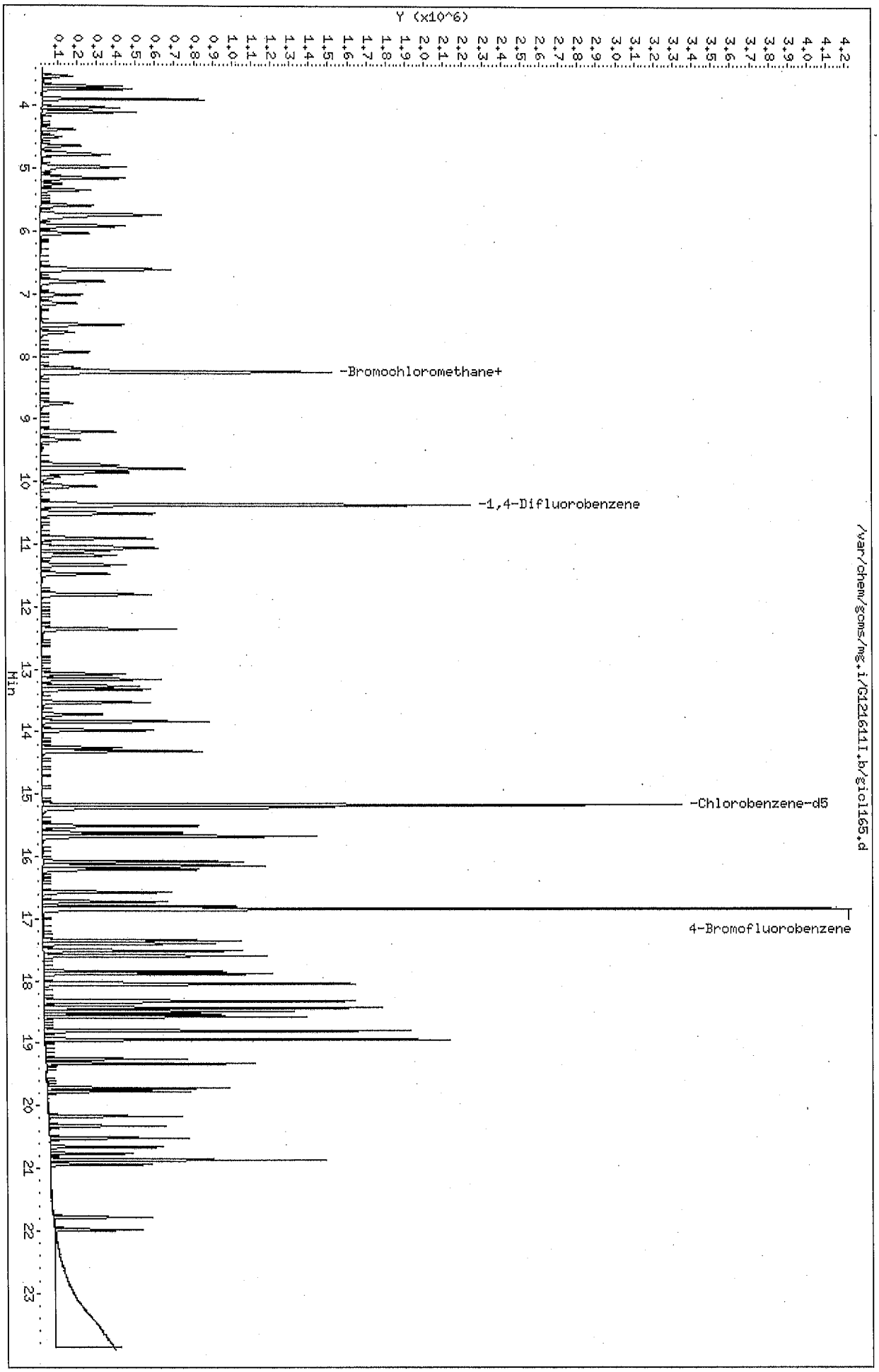
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
16	Chloroethane	64	4.495	4.495	(0.545)	64791	1.00000	0.9216
17	~ ethanol	31	4.636	4.636	(0.562)	193309	5.22000	4.661
18	Vinyl Bromide	106	4.749	4.754	(0.576)	115246	1.00000	0.9214
19	2-methyl butane	43	4.781	4.781	(0.580)	132696	1.00000	0.9162
20	Trichlorofluoromethane	101	4.975	4.975	(0.604)	396245	1.00000	0.9822
21	Acrolein	56	5.018	5.024	(0.609)	35443	1.00000	0.8945
22	Acetonitrile	40	5.105	5.105	(0.619)	34600	1.00000	0.8893
25	Pentane	72	5.153	5.159	(0.625)	23185	1.00000	0.8854
23	Acetone	58	5.153	5.148	(0.625)	57621	1.00000	1.196
24	Isopropyl alcohol	45	5.250	5.245	(0.637)	145820	1.00000	0.9662
26	Ethyl Ether	31	5.347	5.342	(0.649)	154519	1.00000	1.034
27	1,1-Dichloroethene	96	5.590	5.590	(0.678)	113027	1.00000	0.9474
29	Acrylonitrile	53	5.736	5.741	(0.696)	89318	1.00000	1.016
30	1,1,2-Trichlorotrifluoroethane	101	5.741	5.741	(0.696)	254760	1.00000	0.9889
28	tert-butanol	59	5.779	5.773	(0.701)	201708	1.00000	1.132
31	Methylene Chloride	84	5.914	5.914	(0.717)	113666	1.00000	1.003
32	3-Chloropropene	39	5.914	5.919	(0.717)	131262	1.00000	1.014
33	Carbon Disulfide	76	6.032	6.032	(0.732)	401155	1.00000	0.9680
35	~ 2-Methyl Pentane	43	6.604	6.604	(0.801)	320770	1.00000	1.002
34	trans-1,2-Dichloroethene	96	6.620	6.620	(0.803)	141309	1.00000	0.9726
36	Methyl-t-Butyl Ether	73	6.798	6.793	(0.825)	380106	1.00000	1.020
37	1,1-Dichloroethane	63	7.014	7.014	(0.851)	251921	1.00000	0.9860
38	Vinyl Acetate	43	7.148	7.143	(0.867)	339584	1.00000	1.074
39	2-Butanone	72	7.612	7.612	(0.923)	59676	1.00000	1.051
40	Hexane	56	7.494	7.494	(0.909)	115477	1.00000	0.9520
41	cis 1,2-Dichloroethene	96	7.930	7.936	(0.962)	133043	1.00000	0.9674
42	Ethyl acetate	43	8.178	8.173	(0.992)	276415	1.00000	1.060
43	Chloroform	83	8.254	8.254	(1.001)	300327	1.00000	0.9879
44	Tetrahydrofuran	42	8.739	8.734	(1.060)	145102	1.00000	1.074
45	1,1,1-Trichloroethane	97	9.197	9.198	(1.116)	334641	1.00000	1.000
46	1,2-Dichloroethane	62	9.332	9.332	(0.900)	217297	1.00000	1.009
49	Cyclohexane	69	9.737	9.737	(0.939)	72526	1.00000	0.9332
48	Benzene	78	9.785	9.785	(0.944)	399544	1.00000	0.9752
50	Carbon Tetrachloride	117	9.796	9.796	(0.945)	346874	1.00000	0.9828
51	~ 2,3-dimethylpentane	71	9.855	9.855	(0.951)	97327	1.03000	0.9781
47	1-Butanol	31	9.920	9.915	(0.957)	44663	1.00000	1.240
52	~ Thiophene	84	10.071	10.071	(0.971)	237034	1.04000	1.007
53	2,2,4-trimethylpentane	57	10.502	10.503	(1.013)	669232	1.00000	0.9822
54	Heptane	71	10.901	10.902	(1.051)	157199	1.00000	0.9632
55	1,2-Dichloropropane	63	11.042	11.042	(1.065)	147641	1.00000	1.007
56	Trichloroethene	130	11.069	11.069	(1.068)	187787	1.00000	0.9508
180	~ 2-nitropropane	43	11.106	11.106	(1.071)	311737	1.00000	1.046
57	Dibromomethane	93	11.177	11.177	(1.078)	170465	1.00000	0.9742
58	Bromodichloromethane	83	11.327	11.328	(1.093)	346477	1.00000	0.9970
60	Methyl Methacrylate	41	11.473	11.473	(1.107)	179093	1.00000	1.057
59	1,4-dioxane	88	11.457	11.452	(1.105)	54693	1.00000	1.043
61	~ methyl cyclohexane	83	11.802	11.802	(1.138)	255902	1.04000	1.000

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl165.d
Report Date: 19-Dec-2011 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	12.352	12.352	(1.191)	243366	1.00000	0.9994
62	4-Methyl-2-pentanone	43	12.352	12.352	(1.191)	250393	1.00000	1.533
64	trans-1,3-Dichloropropene	75	13.075	13.075	(0.862)	263561	1.00000	1.021
65	Toluene	91	13.161	13.161	(0.867)	494872	1.00000	1.006
66	1,1,2-Trichloroethane	83	13.274	13.274	(0.875)	146480	1.00000	1.012
67	~ 2-methyl thiophene	97	13.323	13.323	(0.878)	441664	1.05000	1.066
68	~ 3-methyl thiophene	97	13.528	13.528	(0.892)	427815	1.04000	1.051
69	2-Hexanone	58	13.722	13.716	(0.904)	118331	1.00000	0.9771
70	Octane	85	13.835	13.835	(0.912)	173567	1.00000	0.9935
71	Dibromochloromethane	129	13.975	13.975	(0.921)	325789	1.00000	1.016
72	1,2-Dibromoethane	107	14.256	14.256	(0.940)	275620	1.00000	1.012
73	Tetrachloroethene	129	14.309	14.310	(0.943)	182557	1.00000	0.9652
75	~ 2,3-dimethylheptane	43	15.210	15.210	(1.002)	461955	1.04000	1.046
74	Chlorobenzene	112	15.221	15.221	(1.003)	393593	1.00000	1.002
76	Ethylbenzene	91	15.512	15.507	(1.022)	643857	1.00000	1.037
77	~ 2-ethyl thiophene	97	15.620	15.620	(1.029)	526937	1.03000	1.066
78	m&p-Xylene	91	15.674	15.674	(1.033)	1010273	2.00000	2.091
79	Nonane	57	16.084	16.084	(1.060)	318589	1.00000	1.051
80	Bromoform	173	16.143	16.143	(1.064)	331865	1.00000	1.017
81	Styrene	104	16.154	16.154	(1.065)	386457	1.00000	1.084
82	o-Xylene	91	16.202	16.208	(1.068)	525510	1.00000	1.042
84	1,1,2,2-Tetrachloroethane	83	16.569	16.569	(1.092)	355541	1.00000	1.053
85	1,2,3-Trichloropropane	110	16.725	16.725	(1.102)	118980	1.00000	1.064
86	Cumene	105	16.801	16.801	(1.107)	749892	1.00000	1.036
87	n-Propylbenzene	120	17.351	17.351	(1.144)	200997	1.00000	1.072
88	2-chlorotoluene	126	17.399	17.399	(1.147)	187195	1.00000	1.039
89	4-Ethyltoluene	105	17.513	17.513	(1.154)	746456	1.00000	1.083
90	1,3,5-Trimethylbenzene	120	17.593	17.593	(1.160)	339708	1.00000	1.068
91	Alpha-Methylstyrene	118	17.847	17.847	(1.176)	295631	1.00000	1.065
92	Decane	57	17.885	17.885	(1.179)	364053	1.00000	1.164
93	tert-butylbenzene	119	18.036	18.036	(1.189)	644101	1.00000	1.067
94	1,2,4-Trimethylbenzene	105	18.052	18.052	(1.190)	600781	1.00000	1.066
95	sec-butylbenzene	105	18.316	18.316	(1.207)	861989	1.00000	1.083
96	1,3-Dichlorobenzene	146	18.332	18.332	(1.208)	403006	1.00000	1.048
97	Benzyl Chloride	91	18.429	18.429	(1.215)	547811	1.00000	1.086
98	1,4-Dichlorobenzene	146	18.429	18.429	(1.215)	395926	1.00000	1.046
99	p-Cymene	119	18.489	18.489	(1.219)	721360	1.00000	1.090
100	~ 1,2,3- Trimethylbenzene	105	18.542	18.543	(1.222)	537538	1.04000	1.152
101	~ n-butylcyclohexane	83	18.575	18.575	(1.224)	458344	1.03000	1.120
102	~ Indane	117	18.796	18.796	(1.239)	546470	1.03000	1.108
103	1,2-Dichlorobenzene	146	18.801	18.801	(1.239)	382084	1.00000	1.061
104	n-butylbenzene	91	18.936	18.936	(1.248)	634340	1.00000	1.144
105	~ Indene	116	18.936	18.936	(1.248)	428957	1.05000	1.168
106	Undecane	57	19.249	19.249	(1.269)	198020	1.00000	0.8809
107	~ 1,2-dimethyl-4-ethylenzene	119	19.324	19.324	(1.274)	571742	1.03000	1.171
108	~ 1,2,4,5-tetramethylbenzene	119	19.713	19.713	(1.299)	446342	1.03000	1.067
109	~ 1,2,3,5-tetramethylbenzene	119	19.772	19.772	(1.303)	351026	1.05000	1.104

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl165.d
Report Date: 19-Dec-2011 14:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.166	20.166	(1.329)	325934	1.02000	1.000
111 Dodecane	57	20.322	20.317	(1.339)	155999	1.00000	0.8562
112 1,2,4-Trichlorobenzene	180	20.516	20.516	(1.352)	200274	1.00000	1.094
113 Napthalene	128	20.656	20.656	(1.361)	409407	1.00000	1.108
114 ~ benzo(b) thiophene	134	20.764	20.764	(1.369)	279703	1.02000	1.140
115 Hexachlorobutadiene	225	20.872	20.867	(1.376)	274103	1.00000	1.204
116 1,2,3-trichlorobenzene	180	20.942	20.942	(1.380)	149208	1.00000	1.080
117 ~ 2-Methylnaphthalene	142	21.789	21.783	(1.436)	233051	6.25000	7.480
118 ~ 1-Methylnaphthalene	142	21.983	21.983	(1.449)	198984	6.25000	6.909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Sample Info: ICAL5,1.5,1.0PPB
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mg.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene
/var/chem/gcms/mg.i/G121611I.b/gc165.d
Min

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl166.d
Report Date: 19-Dec-2011 14:59

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G121611I.b/gicl166.d
Lab Smp Id: ICAL6 Client Smp ID: 2.0PPB
Inj Date : 16-DEC-2011 17:10
Operator : 7126 Inst ID: mg.i
Smp Info : ICAL6,,1,6,,2.0PPB
Misc Info : G121611I,TO15,all.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Meth Date : 19-Dec-2011 14:58 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 12 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
* 1	Bromochloromethane	128	8.243	8.243	(1.000)	404705	4.00000	4.000
* 2	1,4-Difluorobenzene	114	10.368	10.368	(1.000)	2040248	4.00000	4.000
* 3	Chlorobenzene-d5	117	15.172	15.172	(1.000)	1910925	4.00000	4.000
$ 4	4-Bromofluorobenzene	95	16.844	16.844	(1.110)	1422156	4.00000	4.110
M 83	Xylene (total)	100				2685722	6.00000	5.795
5	Chlorodifluoromethane	67	3.687	3.687	(0.447)	79356	2.00000	1.888
6	Propene	41	3.692	3.692	(0.448)	213800	2.00000	2.035
7	Dichlorodifluoromethane	85	3.735	3.735	(0.453)	800093	2.00000	2.060
8	Chloromethane	52	3.891	3.891	(0.472)	72334	2.00000	1.926
9	1,2-Dichlorotetrafluoroethane	135	3.891	3.891	(0.472)	500380	2.00000	2.013
10	Methanol	31	4.037	4.037	(0.490)	138099	2.00000	2.009
11	~ acetaldehyde	44	4.032	4.032	(0.489)	137839	10.1200	7.901
12	Vinyl Chloride	62	4.032	4.032	(0.489)	265841	2.00000	1.997
13	n-Butane	43	4.102	4.102	(0.498)	392633	2.00000	1.915
14	1,3-Butadiene	54	4.107	4.107	(0.498)	189998	2.00000	1.962
15	Bromomethane	94	4.382	4.382	(0.532)	243925	2.00000	1.984

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl166.d
Report Date: 19-Dec-2011 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
16	Chloroethane	64	4.495	4.495	(0.545)	134415	2.00000	1.979
17	~ ethanol	31	4.636	4.636	(0.562)	326554	10.4400	8.693
18	Vinyl Bromide	106	4.754	4.754	(0.577)	236070	2.00000	1.953
19	2-methyl butane	43	4.781	4.781	(0.580)	272127	2.00000	1.944
20	Trichlorofluoromethane	101	4.975	4.975	(0.604)	800688	2.00000	2.054
21	Acrolein	56	5.024	5.024	(0.609)	66151	2.00000	1.728
22	Acetonitrile	40	5.105	5.105	(0.619)	64087	2.00000	1.713
25	Pentane	72	5.159	5.159	(0.626)	48110	2.00000	1.963
23	Acetone	58	5.148	5.148	(0.624)	85136	2.00000	1.831
24	Isopropyl alcohol	45	5.245	5.245	(0.636)	237315	2.00000	1.817
26	Ethyl Ether	31	5.342	5.342	(0.648)	269374	2.00000	1.866
27	1,1-Dichloroethene	96	5.590	5.590	(0.678)	232137	2.00000	2.013
29	Acrylonitrile	53	5.741	5.741	(0.696)	157005	2.00000	1.848
30	1,1,2-Trichlorotrifluoroethane	101	5.741	5.741	(0.696)	504725	2.00000	2.028
28	tert-butanol	59	5.773	5.773	(0.700)	285237	2.00000	1.790
31	Methylene Chloride	84	5.914	5.914	(0.717)	218072	2.00000	1.993
32	3-Chloropropene	39	5.919	5.919	(0.718)	258756	2.00000	2.069
33	Carbon Disulfide	76	6.032	6.032	(0.732)	807331	2.00000	2.016
35	~ 2-Methyl Pentane	43	6.604	6.604	(0.801)	631570	2.00000	2.043
34	trans-1,2-Dichloroethene	96	6.620	6.620	(0.803)	285210	2.00000	2.032
36	Methyl-t-Butyl Ether	73	6.793	6.793	(0.824)	659628	2.00000	1.832
37	1,1-Dichloroethane	63	7.014	7.014	(0.851)	501792	2.00000	2.033
38	Vinyl Acetate	43	7.143	7.143	(0.867)	585335	2.00000	1.915
39	2-Butanone	72	7.612	7.612	(0.923)	97516	2.00000	1.778
40	Hexane	56	7.494	7.494	(0.909)	228485	2.00000	1.950
41	cis 1,2-Dichloroethene	96	7.936	7.936	(0.963)	271834	2.00000	2.046
42	Ethyl acetate	43	8.173	8.173	(0.991)	462142	2.00000	1.833
43	Chloroform	83	8.254	8.254	(1.001)	592618	2.00000	2.018
44	Tetrahydrofuran	42	8.734	8.734	(1.060)	239805	2.00000	1.838
45	1,1,1-Trichloroethane	97	9.198	9.198	(1.116)	663200	2.00000	2.052
46	1,2-Dichloroethane	62	9.332	9.332	(0.900)	409673	2.00000	2.031
49	Cyclohexane	69	9.737	9.737	(0.939)	144733	2.00000	1.990
48	Benzene	78	9.785	9.785	(0.944)	762307	2.00000	1.988
50	Carbon Tetrachloride	117	9.796	9.796	(0.945)	706617	2.00000	2.139
51	~ 2,3-dimethylpentane	71	9.855	9.855	(0.951)	193414	2.06000	2.076
47	1-Butanol	31	9.915	9.915	(0.956)	62393	2.00000	1.851
52	~ Thiophene	84	10.071	10.071	(0.971)	464417	2.08000	2.108
53	2,2,4-trimethylpentane	57	10.503	10.503	(1.013)	1293734	2.00000	2.028
54	Heptane	71	10.902	10.902	(1.051)	303918	2.00000	1.989
55	1,2-Dichloropropane	63	11.042	11.042	(1.065)	269798	2.00000	1.965
56	Trichloroethene	130	11.069	11.069	(1.068)	371912	2.00000	2.012
180	~ 2-nitropropane	43	11.106	11.106	(1.071)	519487	2.00000	1.862
57	Dibromomethane	93	11.177	11.177	(1.078)	335897	2.00000	2.051
58	Bromodichloromethane	83	11.328	11.328	(1.093)	672036	2.00000	2.066
60	Methyl Methacrylate	41	11.473	11.473	(1.107)	299091	2.00000	1.885
59	1,4-dioxane	88	11.452	11.452	(1.105)	96102	2.00000	1.966
61	~ methyl cyclohexane	83	11.802	11.802	(1.138)	505979	2.08000	2.112

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl166.d
Report Date: 19-Dec-2011 14:59

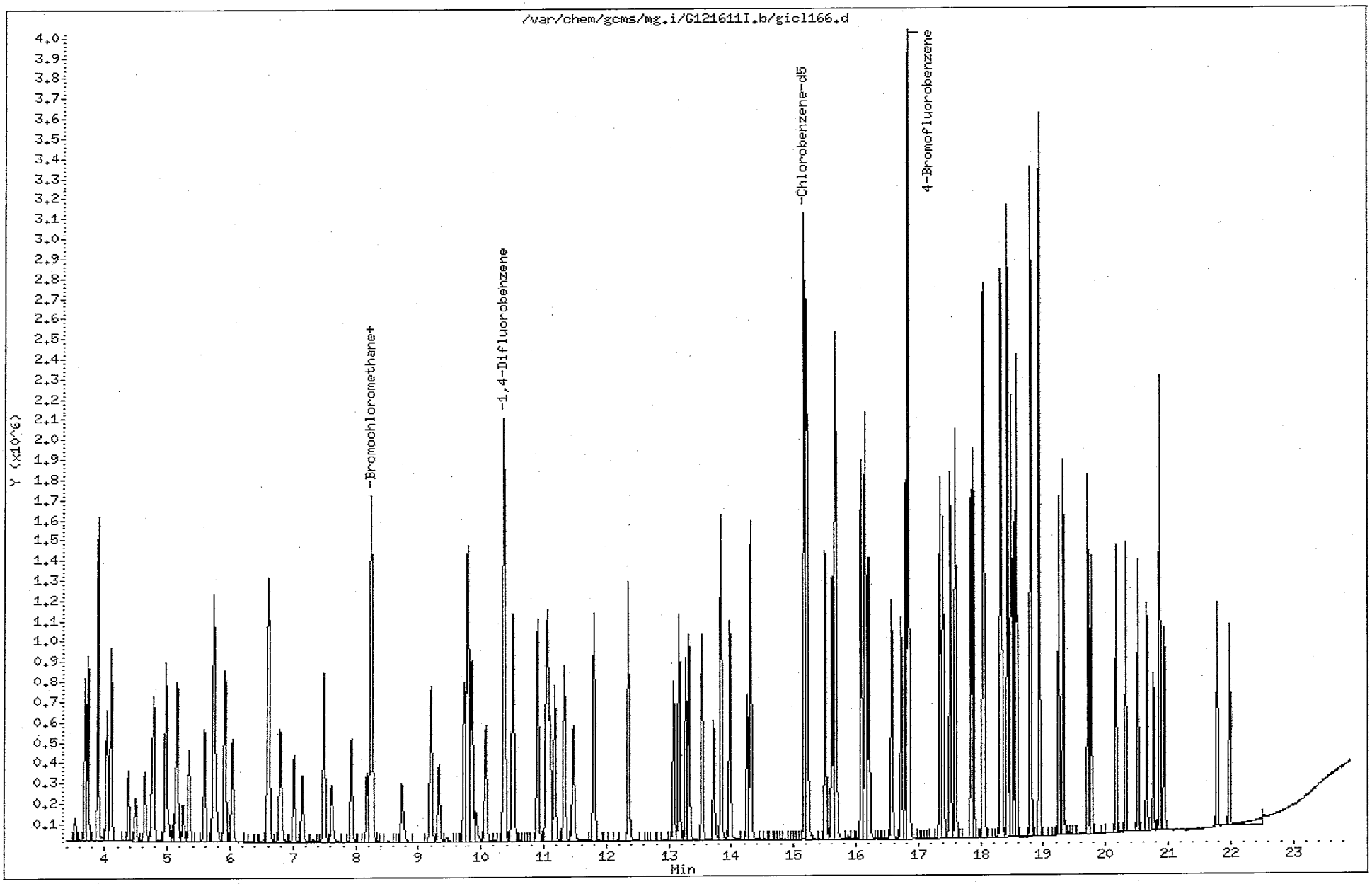
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	12.352	12.352	(1.191)	449404	2.00000	1.971
62	4-Methyl-2-pentanone	43	12.352	12.352	(1.191)	464124	2.00000	1.976
64	trans-1,3-Dichloropropene	75	13.075	13.075	(0.862)	483131	2.00000	1.978
65	Toluene	91	13.161	13.161	(0.867)	882509	2.00000	1.896
66	1,1,2-Trichloroethane	83	13.274	13.274	(0.875)	264606	2.00000	1.933
67	~ 2-methyl thiophene	97	13.323	13.323	(0.878)	784879	2.10000	2.012
68	~ 3-methyl thiophene	97	13.528	13.528	(0.892)	775955	2.08000	2.015
69	2-Hexanone	58	13.716	13.716	(0.904)	222848	2.00000	1.945
70	Octane	85	13.835	13.835	(0.912)	327807	2.00000	1.983
71	Dibromochloromethane	129	13.975	13.975	(0.921)	619483	2.00000	2.042
72	1,2-Dibromoethane	107	14.256	14.256	(0.940)	511712	2.00000	1.986
73	Tetrachloroethene	129	14.310	14.310	(0.943)	353250	2.00000	1.975
75	~ 2,3-dimethylheptane	43	15.210	15.210	(1.002)	840763	2.08000	2.012
74	Chlorobenzene	112	15.221	15.221	(1.003)	724355	2.00000	1.950
76	Ethylbenzene	91	15.507	15.507	(1.022)	1134284	2.00000	1.931
77	~ 2-ethyl thiophene	97	15.620	15.620	(1.029)	945617	2.06000	2.023
78	m&p-Xylene	91	15.674	15.674	(1.033)	1769795	4.00000	3.873
79	Nonane	57	16.084	16.084	(1.060)	573342	2.00000	1.998
80	Bromoform	173	16.143	16.143	(1.064)	634311	2.00000	2.055
81	Styrene	104	16.154	16.154	(1.065)	696300	2.00000	2.062
82	o-Xylene	91	16.208	16.208	(1.068)	915927	2.00000	1.922
84	1,1,2,2-Tetrachloroethane	83	16.569	16.569	(1.092)	624445	2.00000	1.955
85	1,2,3-Trichloropropane	110	16.725	16.725	(1.102)	204512	2.00000	1.933
86	Cumene	105	16.801	16.801	(1.107)	1318297	2.00000	1.924
87	n-Propylbenzene	120	17.351	17.351	(1.144)	349592	2.00000	1.971
88	2-chlorotoluene	126	17.399	17.399	(1.147)	337313	2.00000	1.978
89	4-Ethyltoluene	105	17.513	17.513	(1.154)	1299070	2.00000	1.991
90	1,3,5-Trimethylbenzene	120	17.593	17.593	(1.160)	592196	2.00000	1.967
91	Alpha-Methylstyrene	118	17.847	17.847	(1.176)	536701	2.00000	2.045
92	Decane	57	17.885	17.885	(1.179)	585629	2.00000	1.980
93	tert-butylbenzene	119	18.036	18.036	(1.189)	1107276	2.00000	1.939
94	1,2,4-Trimethylbenzene	105	18.052	18.052	(1.190)	1040731	2.00000	1.952
95	sec-butylbenzene	105	18.316	18.316	(1.207)	1491158	2.00000	1.980
96	1,3-Dichlorobenzene	146	18.332	18.332	(1.208)	730758	2.00000	2.008
97	Benzyl Chloride	91	18.429	18.429	(1.215)	955081	2.00000	2.001
98	1,4-Dichlorobenzene	146	18.429	18.429	(1.215)	721185	2.00000	2.015
99	p-Cymene	119	18.489	18.489	(1.219)	1221754	2.00000	1.951
100	~ 1,2,3- Trimethylbenzene	105	18.543	18.543	(1.222)	910266	2.08000	2.062
101	~ n-butylcyclohexane	83	18.575	18.575	(1.224)	802119	2.06000	2.072
102	~ Indane	117	18.796	18.796	(1.239)	952817	2.06000	2.043
103	1,2-Dichlorobenzene	146	18.801	18.801	(1.239)	680346	2.00000	1.996
104	n-butylbenzene	91	18.936	18.936	(1.248)	1068237	2.00000	2.037
105	~ Indene	116	18.936	18.936	(1.248)	746916	2.10000	2.150
106	Undecane	57	19.249	19.249	(1.269)	448960	2.00000	2.111
107	~ 1,2-dimethyl-4-ethylenzene	119	19.324	19.324	(1.274)	987638	2.06000	2.138
108	~ 1,2,4,5-tetramethylbenzene	119	19.713	19.713	(1.299)	839175	2.06000	2.120
109	~ 1,2,3,5-tetramethylbenzene	119	19.772	19.772	(1.303)	647802	2.10000	2.154

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl166.d
Report Date: 19-Dec-2011 14:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.166	20.166	(1.329)	662757	2.04000	2.149
111 Dodecane	57	20.317	20.317	(1.339)	371730	2.00000	2.405
112 1,2,4-Trichlorobenzene	180	20.516	20.516	(1.352)	370761	2.00000	2.141
113 Napthalene	128	20.656	20.656	(1.361)	783485	2.00000	2.206
114 ~ benzo(b) thiophene	134	20.764	20.764	(1.369)	523452	2.04000	2.255
115 Hexachlorobutadiene	225	20.867	20.867	(1.375)	429471	2.00000	1.994
116 1,2,3-trichlorobenzene	180	20.942	20.942	(1.380)	289865	2.00000	2.010
117 ~ 2-Methylnaphthalene	142	21.783	21.783	(1.436)	517798	12.5000	17.57
118 ~ 1-Methylnaphthalene	142	21.983	21.983	(1.449)	434285	12.5000	17.38

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl166.d
Date : 16-DEC-2011 17:10
Client ID: 2.0PPB
Sample Info: ICAL6,,1,6,,2.0PPB
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mg.i/G121611I.b/gicl167.d
Report Date: 19-Dec-2011 14:59

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G121611I.b/gicl167.d
Lab Smp Id: ICAL7 Client Smp ID: 4.0PPB
Inj Date : 16-DEC-2011 18:04
Operator : 7126 Inst ID: mg.i
Smp Info : ICAL7,,1,7,,4.0PPB
Misc Info : G121611I,TO15,all.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Meth Date : 19-Dec-2011 14:58 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 18:04 Cal File: gicl167.d
Als bottle: 13 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1	Bromochloromethane	128	8.243	8.243	(1.000)	455556	4.00000	4.000
* 2	1,4-Difluorobenzene	114	10.368	10.368	(1.000)	2360302	4.00000	4.000
* 3	Chlorobenzene-d5	117	15.178	15.172	(1.000)	2197693	4.00000	4.000
$ 4	4-Bromofluorobenzene	95	16.844	16.844	(1.110)	1595032	4.00000	4.008
M 83	Xylene (total)	100				6303274	12.0000	11.82
5	Chlorodifluoromethane	67	3.686	3.687	(0.447)	159649	4.00000	3.374
6	Propene	41	3.692	3.692	(0.448)	422844	4.00000	3.575
7	Dichlorodifluoromethane	85	3.735	3.735	(0.453)	1588460	4.00000	3.634
8	Chloromethane	52	3.891	3.891	(0.472)	142202	4.00000	3.364
9	1,2-Dichlorotetrafluoroethane	135	3.891	3.891	(0.472)	1000311	4.00000	3.575
10	Methanol	31	4.037	4.037	(0.490)	313023	4.00000	4.038
11	~ acetaldehyde	44	4.032	4.032	(0.489)	405241	20.2400	20.64
12	Vinyl Chloride	62	4.032	4.032	(0.489)	540216	4.00000	3.605
13	n-Butane	43	4.102	4.102	(0.498)	807356	4.00000	3.498
14	1,3-Butadiene	54	4.107	4.107	(0.498)	394215	4.00000	3.617
15	Bromomethane	94	4.382	4.382	(0.532)	500791	4.00000	3.620

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl167.d
Report Date: 19-Dec-2011 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
16	Chloroethane	64	4.495	4.495	(0.545)	280758	4.00000	3.673
17	~ ethanol	31	4.635	4.636	(0.562)	799389	20.8800	18.90
18	Vinyl Bromide	106	4.754	4.754	(0.577)	495808	4.00000	3.646
19	2-methyl butane	43	4.781	4.781	(0.580)	573339	4.00000	3.639
20	Trichlorofluoromethane	101	4.975	4.975	(0.604)	1641673	4.00000	3.743
21	Acrolein	56	5.018	5.024	(0.609)	165979	4.00000	3.852
22	Acetonitrile	40	5.099	5.105	(0.619)	168201	4.00000	3.976
25	Pentane	72	5.153	5.159	(0.625)	104460	4.00000	3.669
23	Acetone	58	5.142	5.148	(0.624)	262388	4.00000	5.010
24	Isopropyl alcohol	45	5.239	5.245	(0.636)	607235	4.00000	4.130
26	Ethyl Ether	31	5.342	5.342	(0.648)	618772	4.00000	3.808
27	1,1-Dichloroethene	96	5.595	5.590	(0.679)	478192	4.00000	3.684
29	Acrylonitrile	53	5.736	5.741	(0.696)	363598	4.00000	3.801
30	1,1,2-Trichlorotrifluoroethane	101	5.741	5.741	(0.696)	1027358	4.00000	3.667
28	tert-butanol	59	5.768	5.773	(0.700)	903415	4.00000	5.751
31	Methylene Chloride	84	5.913	5.914	(0.717)	439597	4.00000	3.569
32	3-Chloropropene	39	5.919	5.919	(0.718)	511901	4.00000	3.636
33	Carbon Disulfide	76	6.032	6.032	(0.732)	1645647	4.00000	3.651
35	~ 2-Methyl Pentane	43	6.604	6.604	(0.801)	1251305	4.00000	3.596
34	trans-1,2-Dichloroethene	96	6.625	6.620	(0.804)	578905	4.00000	3.664
36	Methyl-t-Butyl Ether	73	6.787	6.793	(0.823)	1571982	4.00000	3.879
37	1,1-Dichloroethane	63	7.019	7.014	(0.851)	1013175	4.00000	3.647
38	Vinyl Acetate	43	7.143	7.143	(0.867)	1397020	4.00000	4.062
39	2-Butanone	72	7.601	7.612	(0.922)	254406	4.00000	4.122
40	Hexane	56	7.493	7.494	(0.909)	458226	4.00000	3.474
41	cis 1,2-Dichloroethene	96	7.936	7.936	(0.963)	549520	4.00000	3.673
42	Ethyl acetate	43	8.167	8.173	(0.991)	1155345	4.00000	4.071
43	Chloroform	83	8.254	8.254	(1.001)	1215047	4.00000	3.676
44	Tetrahydrofuran	42	8.723	8.734	(1.058)	584821	4.00000	3.982
45	1,1,1-Trichloroethane	97	9.197	9.198	(1.116)	1336936	4.00000	3.674
46	1,2-Dichloroethane	62	9.332	9.332	(0.900)	875651	4.00000	3.754
49	Cyclohexane	69	9.737	9.737	(0.939)	294272	4.00000	3.498
48	Benzene	78	9.785	9.785	(0.944)	1646154	4.00000	3.711
50	Carbon Tetrachloride	117	9.796	9.796	(0.945)	1429677	4.00000	3.741
51	~ 2,3-dimethylpentane	71	9.855	9.855	(0.951)	399399	4.12000	3.707
47	1-Butanol	31	9.904	9.915	(0.955)	186889	4.00000	4.796
52	~ Thiophene	84	10.071	10.071	(0.971)	971244	4.16000	3.811
53	2,2,4-trimethylpentane	57	10.502	10.503	(1.013)	2680076	4.00000	3.633
54	Heptane	71	10.907	10.902	(1.052)	639525	4.00000	3.619
55	1,2-Dichloropropane	63	11.042	11.042	(1.065)	597783	4.00000	3.764
56	Trichloroethene	130	11.069	11.069	(1.068)	776121	4.00000	3.629
180	~ 2-nitropropane	43	11.106	11.106	(1.071)	1297235	4.00000	4.021
57	Dibromomethane	93	11.176	11.177	(1.078)	698910	4.00000	3.689
58	Bromodichloromethane	83	11.327	11.328	(1.093)	1421653	4.00000	3.778
60	Methyl Methacrylate	41	11.473	11.473	(1.107)	762116	4.00000	4.153
59	1,4-dioxane	88	11.441	11.452	(1.103)	230465	4.00000	4.076
61	~ methyl cyclohexane	83	11.802	11.802	(1.138)	1052390	4.16000	3.799

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl167.d
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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	12.357	12.352	(1.192)	1014175	4.00000	3.845
62	4-Methyl-2-pentanone	43	12.347	12.352	(1.191)	1077012	4.00000	3.966
64	trans-1,3-Dichloropropene	75	13.075	13.075	(0.861)	1109243	4.00000	3.949
65	Toluene	91	13.161	13.161	(0.867)	2037491	4.00000	3.806
66	1,1,2-Trichloroethane	83	13.274	13.274	(0.875)	603036	4.00000	3.830
67	~ 2-methyl thiophene	97	13.323	13.323	(0.878)	1810040	4.20000	4.035
68	~ 3-methyl thiophene	97	13.527	13.528	(0.891)	1784829	4.16000	4.030
69	2-Hexanone	58	13.711	13.716	(0.903)	540806	4.00000	4.104
70	Octane	85	13.835	13.835	(0.912)	709657	4.00000	3.734
71	Dibromochloromethane	129	13.975	13.975	(0.921)	1404190	4.00000	4.025
72	1,2-Dibromoethane	107	14.255	14.256	(0.939)	1165239	4.00000	3.933
73	Tetrachloroethene	129	14.315	14.310	(0.943)	758319	4.00000	3.687
75	~ 2,3-dimethylheptane	43	15.210	15.210	(1.002)	1808507	4.16000	3.763
74	Chlorobenzene	112	15.226	15.221	(1.003)	1640293	4.00000	3.839
76	Ethylbenzene	91	15.512	15.507	(1.022)	2673551	4.00000	3.958
77	~ 2-ethyl thiophene	97	15.620	15.620	(1.029)	2200193	4.12000	4.093
78	m&p-Xylene	91	15.674	15.674	(1.033)	4152254	8.00000	7.900
79	Nonane	57	16.083	16.084	(1.060)	1284592	4.00000	3.894
80	Bromoform	173	16.143	16.143	(1.064)	1493267	4.00000	4.206
81	Styrene	104	16.154	16.154	(1.064)	1633463	4.00000	4.210
82	o-Xylene	91	16.207	16.208	(1.068)	2151020	4.00000	3.923
84	1,1,2,2-Tetrachloroethane	83	16.574	16.569	(1.092)	1474148	4.00000	4.014
85	1,2,3-Trichloropropane	110	16.725	16.725	(1.102)	491916	4.00000	4.042
86	Cumene	105	16.801	16.801	(1.107)	3127617	4.00000	3.970
87	n-Propylbenzene	120	17.351	17.351	(1.143)	852029	4.00000	4.177
88	2-chlorotoluene	126	17.399	17.399	(1.146)	776966	4.00000	3.962
89	4-Ethyltoluene	105	17.512	17.513	(1.154)	3131657	4.00000	4.174
90	1,3,5-Trimethylbenzene	120	17.593	17.593	(1.159)	1428686	4.00000	4.127
91	Alpha-Methylstyrene	118	17.847	17.847	(1.176)	1302267	4.00000	4.314
92	Decane	57	17.885	17.885	(1.178)	1513558	4.00000	4.450
93	tert-butylbenzene	119	18.036	18.036	(1.188)	2673324	4.00000	4.071
94	1,2,4-Trimethylbenzene	105	18.052	18.052	(1.189)	2514410	4.00000	4.100
95	sec-butylbenzene	105	18.316	18.316	(1.207)	3583262	4.00000	4.137
96	1,3-Dichlorobenzene	146	18.337	18.332	(1.208)	1717180	4.00000	4.103
97	Benzyl Chloride	91	18.429	18.429	(1.214)	2404943	4.00000	4.380
98	1,4-Dichlorobenzene	146	18.429	18.429	(1.214)	1710018	4.00000	4.154
99	p-Cymene	119	18.488	18.489	(1.218)	3004419	4.00000	4.172
100	~ 1,2,3- Trimethylbenzene	105	18.542	18.543	(1.222)	2201485	4.16000	4.336
101	~ n-butylcyclohexane	83	18.580	18.575	(1.224)	1825239	4.12000	4.100
102	~ Indane	117	18.796	18.796	(1.238)	2249727	4.12000	4.195
103	1,2-Dichlorobenzene	146	18.807	18.801	(1.239)	1591461	4.00000	4.061
104	n-butylbenzene	91	18.936	18.936	(1.248)	2668152	4.00000	4.424
105	~ Indene	116	18.936	18.936	(1.248)	1808745	4.20000	4.527
106	Undecane	57	19.254	19.249	(1.269)	1065571	4.00000	4.357
107	~ 1,2-dimethyl-4-ethylenzene	119	19.324	19.324	(1.273)	2532201	4.12000	4.765
108	~ 1,2,4,5-tetramethylbenzene	119	19.718	19.713	(1.299)	2412286	4.12000	5.298
109	~ 1,2,3,5-tetramethylbenzene	119	19.772	19.772	(1.303)	1855120	4.20000	5.362

Data File: /var/chem/gcms/mg.i/G121611I.b/gic1167.d
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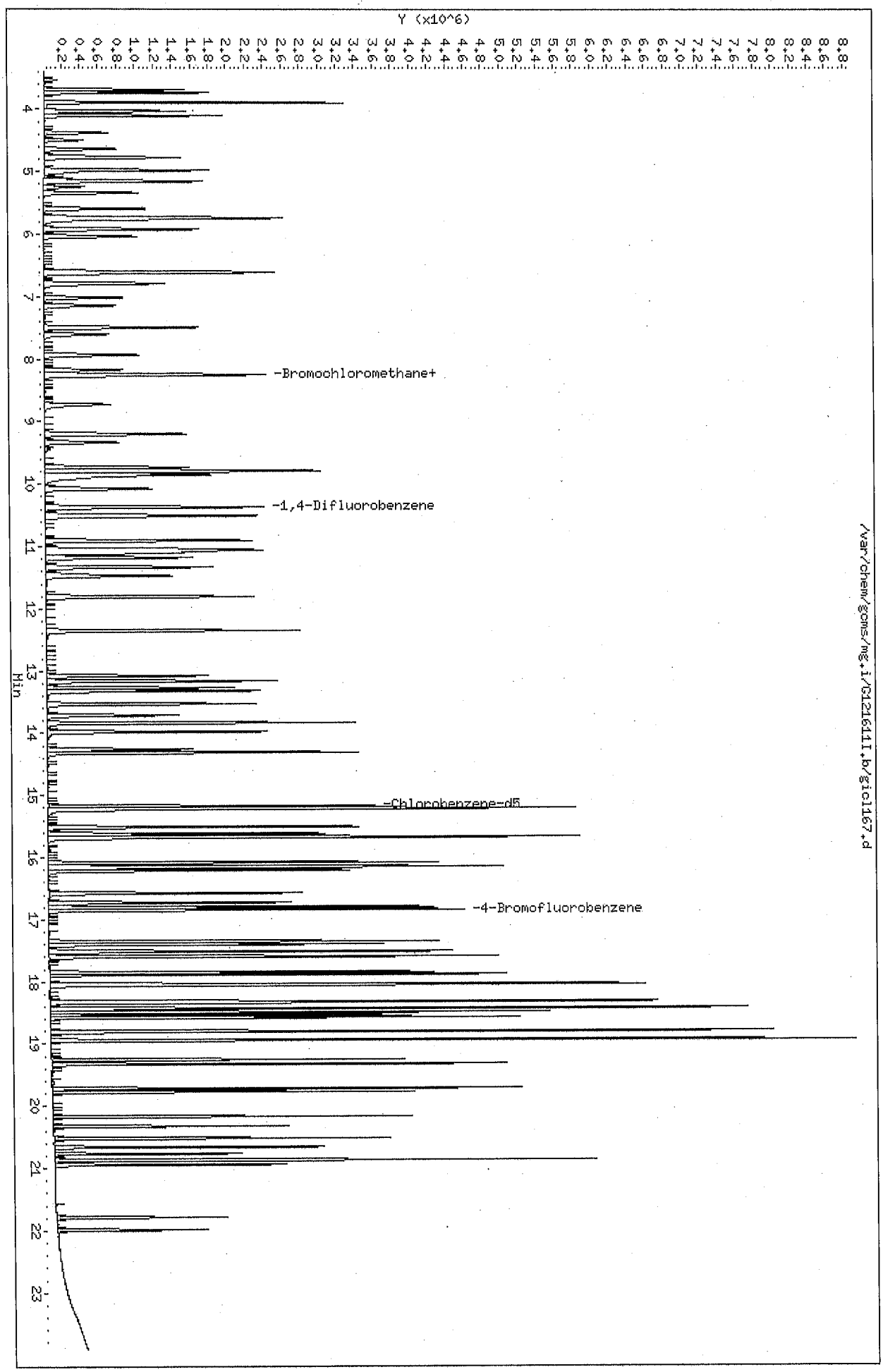
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.166	20.166	(1.329)	1871309	4.08000	5.276
111 Dodecane	57	20.322	20.317	(1.339)	667064	4.00000	4.205
112 1,2,4-Trichlorobenzene	180	20.516	20.516	(1.352)	1045743	4.00000	5.250
113 Napthalene	128	20.656	20.656	(1.361)	2103465	4.00000	5.229
114 ~ benzo(b) thiophene	134	20.764	20.764	(1.368)	1371814	4.08000	5.139
115 Hexachlorobutadiene	225	20.872	20.867	(1.375)	1177332	4.00000	4.753
116 1,2,3-trichlorobenzene	180	20.942	20.942	(1.380)	734551	4.00000	4.889
117 ~ 2-Methylnaphthalene	142	21.789	21.783	(1.436)	877415	25.0000	25.88
118 ~ 1-Methylnaphthalene	142	21.983	21.983	(1.448)	725497	25.0000	23.15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Date : 16-DEC-2011 18:04
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Sample Info: ICAL7,1,7,,4.0PPB
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mg.i
Operator: 7126
Column diameter: 0.32
/var/chem/gcms/mg.i/G1216411.b/gic167.d
Y (x10^6)
Min
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl168.d
Report Date: 19-Dec-2011 14:59

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G121611I.b/gicl168.d
Lab Smp Id: ICAL8 Client Smp ID: 8.0PPB
Inj Date : 16-DEC-2011 18:58
Operator : 7126 Inst ID: mg.i
Smp Info : ICAL8,,1,8,,8.0PPB
Misc Info : G121611I,TO15,all.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Meth Date : 19-Dec-2011 14:58 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 18:58 Cal File: gicl168.d
Als bottle: 14 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.275	8.243	(1.000)	475563	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.395	10.368	(1.000)	2422930	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.188	15.172	(1.000)	2248984	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.855	16.844	(1.110)	1601233	4.00000	3.932
M	83 Xylene (total)	100				12529892	24.0000	22.97
	5 Chlorodifluoromethane	67	3.697	3.687	(0.447)	318147	8.00000	6.441
	6 Propene	41	3.703	3.692	(0.447)	812827	8.00000	6.583
	7 Dichlorodifluoromethane	85	3.746	3.735	(0.453)	3171254	8.00000	6.950
	8 Chloromethane	52	3.902	3.891	(0.472)	296035	8.00000	6.709
	9 1,2-Dichlorotetrafluoroethane	135	3.908	3.891	(0.472)	2159851	8.00000	7.395
	10 Methanol	31	4.075	4.037	(0.492)	609980	8.00000	7.553
	11 ~ acetaldehyde	44	4.053	4.032	(0.490)	548522	40.4800	26.76
	12 Vinyl Chloride	62	4.048	4.032	(0.489)	1133374	8.00000	7.246
	13 n-Butane	43	4.118	4.102	(0.498)	1652778	8.00000	6.860
	14 1,3-Butadiene	54	4.118	4.107	(0.498)	802397	8.00000	7.052
	15 Bromomethane	94	4.398	4.382	(0.531)	1085386	8.00000	7.514

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl168.d
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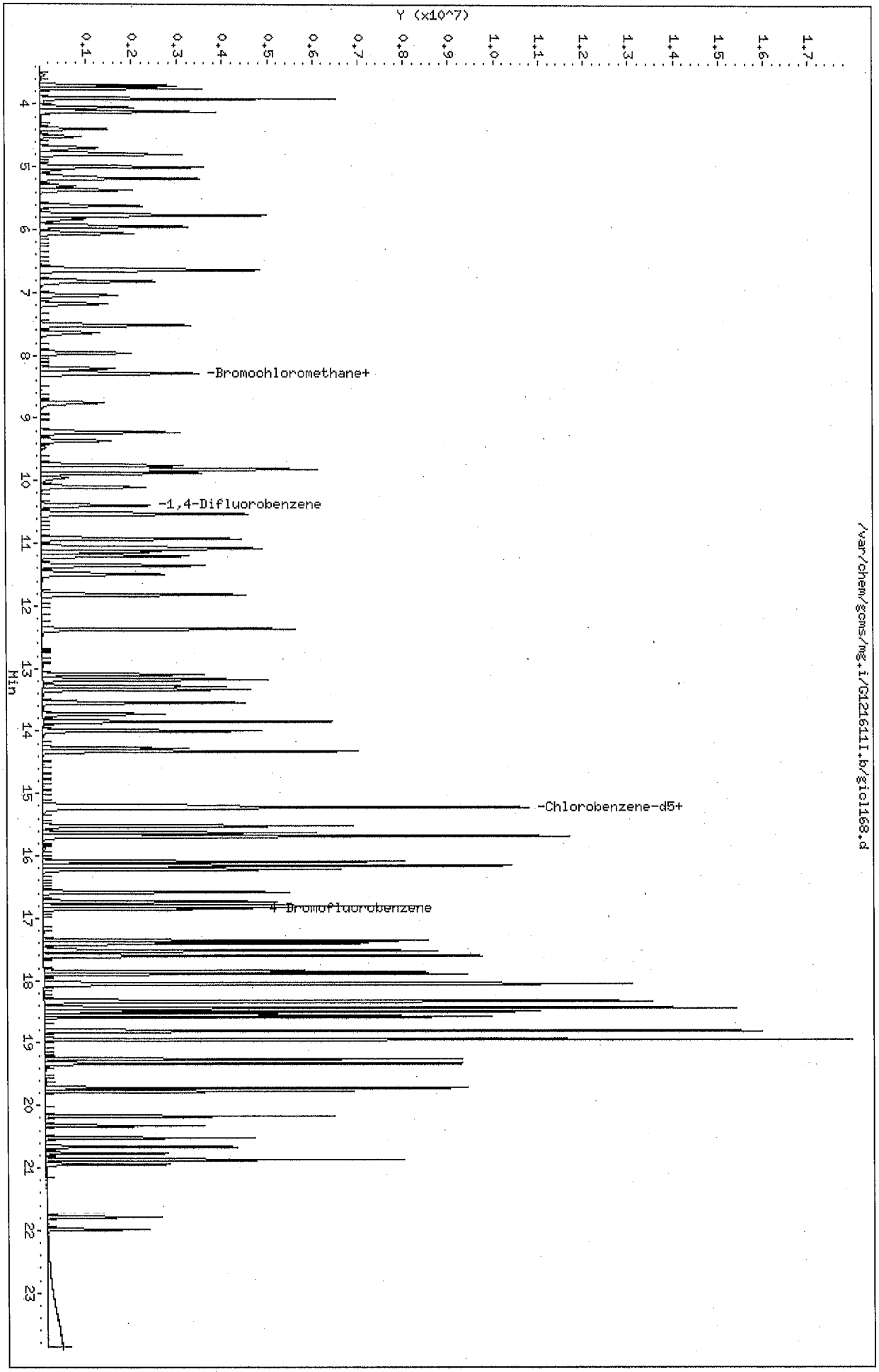
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
16 Chloroethane	64	4.517	4.495	(0.546)	603217	8.00000	7.559
17 ~ ethanol	31	4.695	4.636	(0.567)	1609934	41.7600	36.47
18 Vinyl Bromide	106	4.776	4.754	(0.577)	1066208	8.00000	7.508
19 2-methyl butane	43	4.803	4.781	(0.580)	1237515	8.00000	7.525
20 Trichlorofluoromethane	101	4.997	4.975	(0.604)	3400412	8.00000	7.425
21 Acrolein	56	5.051	5.024	(0.610)	350818	8.00000	7.800
22 Acetonitrile	40	5.137	5.105	(0.621)	406230	8.00000	9.192
25 Pentane	72	5.180	5.159	(0.626)	225276	8.00000	7.579
23 Acetone	58	5.180	5.148	(0.626)	391075	8.00000	7.157
24 Isopropyl alcohol	45	5.310	5.245	(0.642)	1165688	8.00000	7.595
26 Ethyl Ether	31	5.369	5.342	(0.649)	1208891	8.00000	7.128
27 1,1-Dichloroethene	96	5.617	5.590	(0.679)	994896	8.00000	7.343
29 Acrylonitrile	53	5.779	5.741	(0.698)	731521	8.00000	7.327
30 1,1,2-Trichlorotrifluoroethane	101	5.768	5.741	(0.697)	2141875	8.00000	7.324
28 tert-butanol	59	5.833	5.773	(0.705)	1315483	8.00000	7.027
31 Methylene Chloride	84	5.946	5.914	(0.718)	903457	8.00000	7.026
32 3-Chloropropene	39	5.946	5.919	(0.718)	1030452	8.00000	7.012
33 Carbon Disulfide	76	6.059	6.032	(0.732)	3375766	8.00000	7.174
35 ~ 2-Methyl Pentane	43	6.631	6.604	(0.801)	2496427	8.00000	6.872
34 trans-1,2-Dichloroethene	96	6.652	6.620	(0.804)	1196898	8.00000	7.256
36 Methyl-t-Butyl Ether	73	6.819	6.793	(0.824)	3206580	8.00000	7.579
37 1,1-Dichloroethane	63	7.046	7.014	(0.851)	2072641	8.00000	7.146
38 Vinyl Acetate	43	7.181	7.143	(0.868)	2783350	8.00000	7.751
39 2-Butanone	72	7.639	7.612	(0.923)	500524	8.00000	7.768
40 Hexane	56	7.520	7.494	(0.909)	931944	8.00000	6.768
41 cis 1,2-Dichloroethene	96	7.968	7.936	(0.963)	1139435	8.00000	7.297
42 Ethyl acetate	43	8.205	8.173	(0.992)	2322314	8.00000	7.839
43 Chloroform	83	8.286	8.254	(1.001)	2479354	8.00000	7.185
44 Tetrahydrofuran	42	8.750	8.734	(1.057)	1184452	8.00000	7.725
45 1,1,1-Trichloroethane	97	9.224	9.198	(1.115)	2748345	8.00000	7.236
46 1,2-Dichloroethane	62	9.365	9.332	(0.901)	1747612	8.00000	7.297
49 Cyclohexane	69	9.758	9.737	(0.939)	599275	8.00000	6.940
48 Benzene	78	9.812	9.785	(0.944)	3328800	8.00000	7.309
50 Carbon Tetrachloride	117	9.823	9.796	(0.945)	2870896	8.00000	7.317
51 ~ 2,3-dimethylpentane	71	9.877	9.855	(0.950)	804900	8.24000	7.276
47 1-Butanol	31	9.952	9.915	(0.957)	270512	8.00000	6.758
52 ~ Thiophene	84	10.098	10.071	(0.971)	1977419	8.32000	7.557
53 2,2,4-trimethylpentane	57	10.529	10.503	(1.013)	5389839	8.00000	7.116
54 Heptane	71	10.928	10.902	(1.051)	1305335	8.00000	7.195
55 1,2-Dichloropropane	63	11.063	11.042	(1.064)	1197050	8.00000	7.342
56 Trichloroethene	130	11.090	11.069	(1.067)	1597793	8.00000	7.277
180 ~ 2-nitropropane	43	11.133	11.106	(1.071)	2586032	8.00000	7.804
57 Dibromomethane	93	11.198	11.177	(1.077)	1422734	8.00000	7.314
58 Bromodichloromethane	83	11.349	11.328	(1.092)	2891648	8.00000	7.484
60 Methyl Methacrylate	41	11.495	11.473	(1.106)	1525546	8.00000	8.095
59 1,4-dioxane	88	11.462	11.452	(1.103)	442348	8.00000	7.618
61 ~ methyl cyclohexane	83	11.824	11.802	(1.137)	2132522	8.32000	7.497

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl168.d
Report Date: 19-Dec-2011 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	12.374	12.352	(1.190)	2032691	8.00000	7.505
62	4-Methyl-2-pentanone	43	12.368	12.352	(1.190)	2075768	8.00000	7.443
64	trans-1,3-Dichloropropene	75	13.096	13.075	(0.862)	2240670	8.00000	7.794
65	Toluene	91	13.177	13.161	(0.868)	4109989	8.00000	7.502
66	1,1,2-Trichloroethane	83	13.290	13.274	(0.875)	1227788	8.00000	7.621
67	~ 2-methyl thiophene	97	13.339	13.323	(0.878)	3679763	8.40000	8.015
68	~ 3-methyl thiophene	97	13.544	13.528	(0.892)	3603976	8.32000	7.953
69	2-Hexanone	58	13.727	13.716	(0.904)	1049528	8.00000	7.782
70	Octane	85	13.851	13.835	(0.912)	1433486	8.00000	7.369
71	Dibromochloromethane	129	13.991	13.975	(0.921)	2869699	8.00000	8.038
72	1,2-Dibromoethane	107	14.272	14.256	(0.940)	2380700	8.00000	7.853
73	Tetrachloroethene	129	14.326	14.310	(0.943)	1559470	8.00000	7.410
75	~ 2,3-dimethylheptane	43	15.221	15.210	(1.002)	3427449	8.32000	6.971
74	Chlorobenzene	112	15.237	15.221	(1.003)	3335437	8.00000	7.628
76	Ethylbenzene	91	15.523	15.507	(1.022)	5363033	8.00000	7.759
77	~ 2-ethyl thiophene	97	15.631	15.620	(1.029)	4411784	8.24000	8.020
78	m&p-Xylene	91	15.684	15.674	(1.033)	8274059	16.0000	15.38
79	Nonane	57	16.094	16.084	(1.060)	2495336	8.00000	7.389
80	Bromoform	173	16.154	16.143	(1.064)	3128184	8.00000	8.610
81	Styrene	104	16.164	16.154	(1.064)	3360439	8.00000	8.455
82	o-Xylene	91	16.218	16.208	(1.068)	4255833	8.00000	7.589
84	1,1,2,2-Tetrachloroethane	83	16.580	16.569	(1.092)	2934581	8.00000	7.808
85	1,2,3-Trichloropropane	110	16.736	16.725	(1.102)	992426	8.00000	7.969
86	Cumene	105	16.811	16.801	(1.107)	6235496	8.00000	7.734
87	n-Propylbenzene	120	17.361	17.351	(1.143)	1717519	8.00000	8.227
88	2-chlorotoluene	126	17.405	17.399	(1.146)	1562924	8.00000	7.788
89	4-Ethyltoluene	105	17.518	17.513	(1.153)	6307016	8.00000	8.215
90	1,3,5-Trimethylbenzene	120	17.604	17.593	(1.159)	2898998	8.00000	8.183
91	Alpha-Methylstyrene	118	17.852	17.847	(1.175)	2648149	8.00000	8.573
92	Decane	57	17.890	17.885	(1.178)	2914581	8.00000	8.373
93	tert-butylbenzene	119	18.041	18.036	(1.188)	5386368	8.00000	8.015
94	1,2,4-Trimethylbenzene	105	18.057	18.052	(1.189)	5036616	8.00000	8.025
95	sec-butylbenzene	105	18.321	18.316	(1.206)	7140164	8.00000	8.056
96	1,3-Dichlorobenzene	146	18.343	18.332	(1.208)	3500118	8.00000	8.172
97	Benzyl Chloride	91	18.435	18.429	(1.214)	4821788	8.00000	8.582
98	1,4-Dichlorobenzene	146	18.435	18.429	(1.214)	3498493	8.00000	8.305
99	p-Cymene	119	18.494	18.489	(1.218)	5993184	8.00000	8.132
100	~ 1,2,3- Trimethylbenzene	105	18.548	18.543	(1.221)	4338713	8.32000	8.350
101	~ n-butylcyclohexane	83	18.586	18.575	(1.224)	3540905	8.24000	7.773
102	~ Indane	117	18.801	18.796	(1.238)	4498644	8.24000	8.197
103	1,2-Dichlorobenzene	146	18.812	18.801	(1.239)	3216106	8.00000	8.019
104	n-butylbenzene	91	18.941	18.936	(1.247)	5222962	8.00000	8.462
105	~ Indene	116	18.941	18.936	(1.247)	3670586	8.40000	8.978
106	Undecane	57	19.254	19.249	(1.268)	2458328	8.00000	9.822
107	~ 1,2-dimethyl-4-ethylenzene	119	19.330	19.324	(1.273)	4939504	8.24000	9.084
108	~ 1,2,4,5-tetramethylbenzene	119	19.718	19.713	(1.298)	4403221	8.24000	9.450
109	~ 1,2,3,5-tetramethylbenzene	119	19.777	19.772	(1.302)	3300065	8.40000	9.322

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl168.d
Report Date: 19-Dec-2011 14:59

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.171	20.166	(1.328)	3027373	8.16000	8.340
111 Dodecane	57	20.322	20.317	(1.338)	874219	8.00000	5.385
112 1,2,4-Trichlorobenzene	180	20.521	20.516	(1.351)	1312860	8.00000	6.441
113 Napthalene	128	20.662	20.656	(1.360)	2991783	8.00000	7.268
114 ~ benzo(b) thiophene	134	20.764	20.764	(1.367)	1842145	8.16000	6.744
115 Hexachlorobutadiene	225	20.872	20.867	(1.374)	1518897	8.00000	5.992
116 1,2,3-trichlorobenzene	180	20.947	20.942	(1.379)	796667	8.00000	5.182
117 ~ 2-Methylnaphthalene	142	21.789	21.783	(1.435)	1158010	50.0000	33.38
118 ~ 1-Methylnaphthalene	142	21.983	21.983	(1.447)	978222	50.0000	30.50


Data File: /var/chem/gcms/mg.i/G121611I.b/gic168.d
Date : 16-DEC-2011 18:58
Client ID: 8.0PPB
Sample Info: ICAL8,.1,8,.8,.8,.0PPB
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mg.i
Operator: 7126
Column diameter: 0.32
Y (x10^7)
/var/chem/gcms/mg.i/G121611I.b/gic168.d
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5+
4-Bromofluorobenzene
Min

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl169.d
Report Date: 19-Dec-2011 14:59

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G121611I.b/gicl169.d
Lab Smp Id: ICAL9 Client Smp ID: 16PPB
Inj Date : 16-DEC-2011 19:51
Operator : 7126 Inst ID: mg.i
Smp Info : ICAL9,,1,9,,16PPB
Misc Info : G121611I,TO15,all.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Meth Date : 19-Dec-2011 14:58 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 19:51 Cal File: gicl169.d
Als bottle: 15 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1	Bromochloromethane	128	8.259	8.243	(1.000)	433910	4.00000	4.000
*	2	1,4-Difluorobenzene	114	10.378	10.368	(1.000)	2205825	4.00000	4.000
*	3	Chlorobenzene-d5	117	15.178	15.172	(1.000)	2096916	4.00000	4.000
$	4	4-Bromofluorobenzene	95	16.849	16.844	(1.110)	1469852	4.00000	3.871
M	83	Xylene (total)	100				20423318	48.0000	40.16
	5	Chlorodifluoromethane	67	3.687	3.687	(0.446)	616630	16.0000	13.68
	6	Propene	41	3.692	3.692	(0.447)	1528709	16.0000	13.57
	7	Dichlorodifluoromethane	85	3.735	3.735	(0.452)	6096098	16.0000	14.64
	8	Chloromethane	52	3.891	3.891	(0.471)	529816	16.0000	13.16
	9	1,2-Dichlorotetrafluoroethane	135	3.897	3.891	(0.472)	4207418	16.0000	15.79
	10	Methanol	31	4.048	4.037	(0.490)	874374	16.0000	11.84
	11	~ acetaldehyde	44	4.032	4.032	(0.488)	980066	80.9600	52.40
	12	Vinyl Chloride	62	4.037	4.032	(0.489)	2068439	16.0000	14.49
	13	n-Butane	43	4.102	4.102	(0.497)	2969167	16.0000	13.50
	14	1,3-Butadiene	54	4.107	4.107	(0.497)	1469301	16.0000	14.15
	15	Bromomethane	94	4.382	4.382	(0.531)	2064953	16.0000	15.67

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl169.d
Report Date: 19-Dec-2011 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
16	Chloroethane	64	4.501	4.495	(0.545)	1123721	16.0000	15.43
17	~ ethanol	31	4.652	4.636	(0.563)	2364402	83.5300	58.72
18	Vinyl Bromide	106	4.760	4.754	(0.576)	2067881	16.0000	15.96
19	2-methyl butane	43	4.787	4.781	(0.580)	2246528	16.0000	14.97
20	Trichlorofluoromethane	101	4.981	4.975	(0.603)	6470477	16.0000	15.48
21	Acrolein	56	5.029	5.024	(0.609)	582368	16.0000	14.19
22	Acetonitrile	40	5.110	5.105	(0.619)	661230	16.0000	16.40(A)
25	Pentane	72	5.159	5.159	(0.625)	420050	16.0000	15.49
23	Acetone	58	5.153	5.148	(0.624)	589777	16.0000	11.83
24	Isopropyl alcohol	45	5.256	5.245	(0.636)	1892544	16.0000	14.76
26	Ethyl Ether	31	5.347	5.342	(0.647)	1996634	16.0000	12.91
27	1,1-Dichloroethene	96	5.601	5.590	(0.678)	1889892	16.0000	15.29
29	Acrylonitrile	53	5.752	5.741	(0.696)	1200969	16.0000	13.18
30	1,1,2-Trichlorotrifluoroethane	101	5.746	5.741	(0.696)	4127218	16.0000	15.47
28	tert-butanol	59	5.779	5.773	(0.700)	2653795	16.0000	15.54
31	Methylene Chloride	84	5.924	5.914	(0.717)	1701852	16.0000	14.50
32	3-Chloropropene	39	5.930	5.919	(0.718)	1941462	16.0000	14.48
33	Carbon Disulfide	76	6.043	6.032	(0.732)	6399298	16.0000	14.91
35	~ 2-Methyl Pentane	43	6.615	6.604	(0.801)	4622255	16.0000	13.95
34	trans-1,2-Dichloroethene	96	6.631	6.620	(0.803)	2259876	16.0000	15.02
36	Methyl-t-Butyl Ether	73	6.793	6.793	(0.822)	5132001	16.0000	13.29
37	1,1-Dichloroethane	63	7.030	7.014	(0.851)	3926724	16.0000	14.84
38	Vinyl Acetate	43	7.154	7.143	(0.866)	4547486	16.0000	13.88
39	2-Butanone	72	7.607	7.612	(0.921)	770359	16.0000	13.10
40	Hexane	56	7.504	7.494	(0.909)	1773302	16.0000	14.11
41	cis 1,2-Dichloroethene	96	7.947	7.936	(0.962)	2196342	16.0000	15.42
42	Ethyl acetate	43	8.178	8.173	(0.990)	3524788	16.0000	13.05
43	Chloroform	83	8.270	8.254	(1.001)	4646364	16.0000	14.76
44	Tetrahydrofuran	42	8.723	8.734	(1.056)	1845143	16.0000	13.19
45	1,1,1-Trichloroethane	97	9.208	9.198	(1.115)	5162274	16.0000	14.90
46	1,2-Dichloroethane	62	9.343	9.332	(0.900)	3183566	16.0000	14.60
49	Cyclohexane	69	9.748	9.737	(0.939)	1122811	16.0000	14.28
48	Benzene	78	9.796	9.785	(0.944)	6035904	16.0000	14.56
50	Carbon Tetrachloride	117	9.807	9.796	(0.945)	5413997	16.0000	15.16
51	~ 2,3-dimethylpentane	71	9.866	9.855	(0.951)	1496766	16.4800	14.86
47	1-Butanol	31	9.904	9.915	(0.954)	551085	16.0000	15.11
52	~ Thiophene	84	10.082	10.071	(0.971)	3621152	16.6400	15.20
53	2,2,4-trimethylpentane	57	10.513	10.503	(1.013)	9729197	16.0000	14.11
54	Heptane	71	10.912	10.902	(1.051)	2360805	16.0000	14.30
55	1,2-Dichloropropane	63	11.047	11.042	(1.064)	2060897	16.0000	13.89
56	Trichloroethene	130	11.074	11.069	(1.067)	3004371	16.0000	15.03
180	~ 2-nitropropane	43	11.117	11.106	(1.071)	3885597	16.0000	12.87
57	Dibromomethane	93	11.187	11.177	(1.078)	2598785	16.0000	14.68
58	Bromodichloromethane	83	11.338	11.328	(1.092)	5201672	16.0000	14.79
60	Methyl Methacrylate	41	11.479	11.473	(1.106)	2311569	16.0000	13.48
59	1,4-dioxane	88	11.441	11.452	(1.102)	723295	16.0000	13.68
61	~ methyl cyclohexane	83	11.813	11.802	(1.138)	3940786	16.6400	15.22

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl169.d
Report Date: 19-Dec-2011 14:59

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	12.363	12.352	(1.191)	3532878	16.0000	14.34
62	4-Methyl-2-pentanone	43	12.347	12.352	(1.190)	3544120	16.0000	13.96
64	trans-1,3-Dichloropropene	75	13.085	13.075	(0.862)	3864226	16.0000	14.42
65	Toluene	91	13.172	13.161	(0.868)	7057625	16.0000	13.82
66	1,1,2-Trichloroethane	83	13.280	13.274	(0.875)	2093238	16.0000	13.93
67	~ 2-methyl thiophene	97	13.328	13.323	(0.878)	6348144	16.8000	14.78
68	~ 3-methyl thiophene	97	13.538	13.528	(0.892)	6219158	16.6400	14.72
69	2-Hexanone	58	13.716	13.716	(0.904)	1850900	16.0000	14.72
70	Octane	85	13.846	13.835	(0.912)	2524301	16.0000	13.92
71	Dibromochloromethane	129	13.986	13.975	(0.921)	5133980	16.0000	15.42
72	1,2-Dibromoethane	107	14.266	14.256	(0.940)	4130431	16.0000	14.61
73	Tetrachloroethene	129	14.320	14.310	(0.944)	2823982	16.0000	14.39
75	~ 2,3-dimethylheptane	43	15.215	15.210	(1.002)	5616372	16.6400	12.25
74	Chlorobenzene	112	15.226	15.221	(1.003)	5788729	16.0000	14.20
76	Ethylbenzene	91	15.517	15.507	(1.022)	8848381	16.0000	13.73
77	~ 2-ethyl thiophene	97	15.625	15.620	(1.029)	7416161	16.4800	14.46
78	m&p-Xylene	91	15.679	15.674	(1.033)	13505776	32.0000	26.93
79	Nonane	57	16.089	16.084	(1.060)	4138480	16.0000	13.14
80	Bromoform	173	16.148	16.143	(1.064)	5491003	16.0000	16.21(A)
81	Styrene	104	16.159	16.154	(1.065)	5623953	16.0000	15.18
82	o-Xylene	91	16.213	16.208	(1.068)	6917542	16.0000	13.23
84	1,1,2,2-Tetrachloroethane	83	16.574	16.569	(1.092)	4729356	16.0000	13.50
85	1,2,3-Trichloropropane	110	16.731	16.725	(1.102)	1585232	16.0000	13.65
86	Cumene	105	16.806	16.801	(1.107)	10083256	16.0000	13.41
87	n-Propylbenzene	120	17.356	17.351	(1.144)	2786118	16.0000	14.31
88	2-chlorotoluene	126	17.405	17.399	(1.147)	2626959	16.0000	14.04
89	4-Ethyltoluene	105	17.518	17.513	(1.154)	9990510	16.0000	13.95
90	1,3,5-Trimethylbenzene	120	17.599	17.593	(1.160)	4689510	16.0000	14.20
91	Alpha-Methylstyrene	118	17.852	17.847	(1.176)	4340985	16.0000	15.07
92	Decane	57	17.890	17.885	(1.179)	4620153	16.0000	14.24
93	tert-butylbenzene	119	18.041	18.036	(1.189)	8730320	16.0000	13.93
94	1,2,4-Trimethylbenzene	105	18.057	18.052	(1.190)	8036551	16.0000	13.73
95	sec-butylbenzene	105	18.321	18.316	(1.207)	11383431	16.0000	13.77
96	1,3-Dichlorobenzene	146	18.338	18.332	(1.208)	6028407	16.0000	15.10
97	Benzyl Chloride	91	18.435	18.429	(1.215)	7590452	16.0000	14.50
98	1,4-Dichlorobenzene	146	18.435	18.429	(1.215)	6010919	16.0000	15.30
99	p-Cymene	119	18.494	18.489	(1.218)	9462923	16.0000	13.77
100	~ 1,2,3- Trimethylbenzene	105	18.548	18.543	(1.222)	6814979	16.6400	14.06
101	~ n-butylcyclohexane	83	18.580	18.575	(1.224)	5920485	16.4800	13.94
102	~ Indane	117	18.801	18.796	(1.239)	7339521	16.4800	14.34
103	1,2-Dichlorobenzene	146	18.807	18.801	(1.239)	5486624	16.0000	14.67
104	n-butylbenzene	91	18.942	18.936	(1.248)	8072004	16.0000	14.03
105	~ Indene	116	18.942	18.936	(1.248)	5951991	16.8000	15.61
106	Undecane	57	19.254	19.249	(1.269)	3894829	16.0000	16.69(A)
107	~ 1,2-dimethyl-4-ethylenzene	119	19.324	19.324	(1.273)	7848653	16.4800	15.48
108	~ 1,2,4,5-tetramethylbenzene	119	19.718	19.713	(1.299)	7633748	16.4800	17.57(A)
109	~ 1,2,3,5-tetramethylbenzene	119	19.777	19.772	(1.303)	5809420	16.8000	17.60(A)

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl169.d
Report Date: 19-Dec-2011 14:59

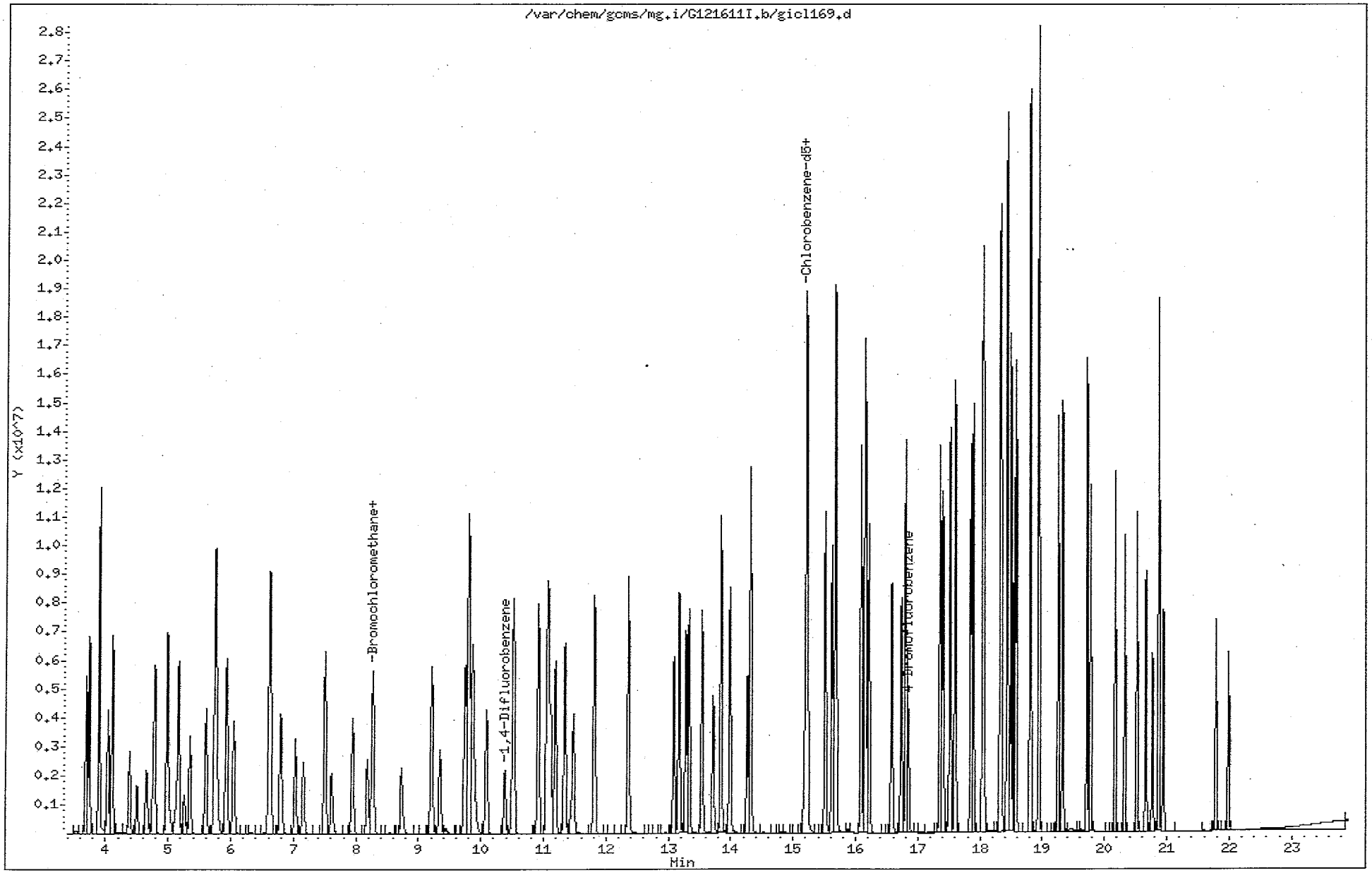
Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.171	20.166	(1.329)	5947861	16.3200	17.58(A)
111 Dodecane	57	20.322	20.317	(1.339)	2589652	16.0000	17.11(A)
112 1,2,4-Trichlorobenzene	180	20.521	20.516	(1.352)	3212473	16.0000	16.90(A)
113 Napthalene	128	20.662	20.656	(1.361)	6404987	16.0000	16.69(A)
114 ~ benzo(b) thiophene	134	20.764	20.764	(1.368)	4217711	16.3200	16.56(A)
115 Hexachlorobutadiene	225	20.872	20.867	(1.375)	3649643	16.0000	15.44
116 1,2,3-trichlorobenzene	180	20.948	20.942	(1.380)	2316611	16.0000	16.16(A)
117 ~ 2-Methylnaphthalene	142	21.789	21.783	(1.436)	3348751	100.000	103.5(A)
118 ~ 1-Methylnaphthalene	142	21.983	21.983	(1.448)	2765037	100.000	92.48(A)

QC Flag Legend

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

Data File: /var/chem/gcms/mg.i/G121611I.b/gicl169.d
Date : 16-DEC-2011 19:51
Client ID: 16PPB
Sample Info: ICAL9,,1,9,,16PPB
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mg.i/G121611I.b/gicvl16.d
Report Date: 19-Dec-2011 13:29

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G121611I.b/gicvl16.d
Lab Smp Id: ICV Client Smp ID: ICV
Inj Date : 16-DEC-2011 21:35
Operator : 7126 Inst ID: mg.i
Smp Info : ICV,,3,,,ICV
Misc Info : G121611I,TO15,all.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G121611I.b/TO15.m
Meth Date : 19-Dec-2011 13:28 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 1 QC Sample: 2ND SOURCE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.243	8.243	(1.000)	402849	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.368	10.368	(1.000)	2050886	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.172	15.172	(1.000)	1911482	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.844	16.844	(1.110)	1391807	4.02108	10.05
M	83 Xylene (total)	100				2490521	5.37264	13.43
	5 Chlorodifluoromethane	67	3.681	3.687	(0.447)	89392	2.13635	5.341
	6 Propene	41	3.692	3.692	(0.448)	216939	2.07416	5.185
	7 Dichlorodifluoromethane	85	3.735	3.735	(0.453)	815388	2.10961	5.274
	8 Chloromethane	52	3.892	3.891	(0.472)	75314	2.01504	5.038
	9 1,2-Dichlorotetrafluoroethane	135	3.892	3.891	(0.472)	527068	2.13027	5.326
	10 Methanol	31	4.037	4.037	(0.490)	90559	1.32373	3.309
	11 ~ acetaldehyde	44	4.032	4.032	(0.489)	130944	7.54066	18.85
	12 Vinyl Chloride	62	4.032	4.032	(0.489)	277293	2.09284	5.232
	13 n-Butane	43	4.102	4.102	(0.498)	423892	2.07683	5.192
	14 1,3-Butadiene	54	4.107	4.107	(0.498)	207258	2.15049	5.376

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
15	Bromomethane	94	4.382	4.382	(0.532)	241694	1.97537	4.938
16	Chloroethane	64	4.495	4.495	(0.545)	131440	1.94438	4.861
17	~ ethanol	31	4.636	4.636	(0.562)	268080	7.16946	17.92
18	Vinyl Bromide	106	4.749	4.754	(0.576)	249936	2.07767	5.194
19	2-methyl butane	43	4.781	4.781	(0.580)	274035	1.96722	4.918
20	Trichlorofluoromethane	101	4.975	4.975	(0.604)	804431	2.07361	5.184
21	Acrolein	56	5.024	5.024	(0.609)	53337	1.39987	3.500
22	Acetonitrile	40	5.105	5.105	(0.619)	57010	1.53074	3.827
25	Pentane	72	5.153	5.159	(0.625)	47029	1.92787	4.820
23	Acetone	58	5.153	5.148	(0.625)	68454	1.47898	3.697
24	Isopropyl alcohol	45	5.250	5.245	(0.637)	217943	1.67629	4.191
26	Ethyl Ether	31	5.347	5.342	(0.649)	244473	1.70160	4.254
27	1,1-Dichloroethene	96	5.590	5.590	(0.678)	277999	2.42216	6.055
29	Acrylonitrile	53	5.741	5.741	(0.696)	151147	1.78717	4.468
30	1,1,2-Trichlorotrifluoroethane	101	5.741	5.741	(0.696)	586542	2.36776	5.919
28	tert-butanol	59	5.773	5.773	(0.700)	345934	2.18135	5.453
31	Methylene Chloride	84	5.914	5.914	(0.717)	262205	2.40714	6.018
32	3-Chloropropene	39	5.919	5.919	(0.718)	263165	2.11392	5.285
33	Carbon Disulfide	76	6.032	6.032	(0.732)	858578	2.15381	5.384
35	~ 2-Methyl Pentane	43	6.609	6.604	(0.802)	655771	2.13109	5.328
34	trans-1,2-Dichloroethene	96	6.620	6.620	(0.803)	296046	2.11872	5.297
36	Methyl-t-Butyl Ether	73	6.798	6.793	(0.825)	625133	1.74419	4.360
37	1,1-Dichloroethane	63	7.014	7.014	(0.851)	555565	2.26128	5.653
38	Vinyl Acetate	43	7.148	7.143	(0.867)	544661	1.79053	4.476
39	2-Butanone	72	7.612	7.612	(0.923)	94376	1.72911	4.323
40	Hexane	56	7.494	7.494	(0.909)	241178	2.06774	5.169
41	cis 1,2-Dichloroethene	96	7.936	7.936	(0.963)	307447	2.32429	5.811
42	Ethyl acetate	43	8.178	8.173	(0.992)	443077	1.76556	4.414
43	Chloroform	83	8.254	8.254	(1.001)	653187	2.23461	5.586
44	Tetrahydrofuran	42	8.739	8.734	(1.060)	229200	1.76474	4.412
45	1,1,1-Trichloroethane	97	9.198	9.198	(1.116)	719516	2.23626	5.591
46	1,2-Dichloroethane	62	9.332	9.332	(0.900)	438213	2.16175	5.404
49	Cyclohexane	69	9.737	9.737	(0.939)	150022	2.05250	5.131
48	Benzene	78	9.785	9.785	(0.944)	832761	2.16010	5.400
50	Carbon Tetrachloride	117	9.796	9.796	(0.945)	755191	2.27395	5.685
51	~ 2,3-dimethylpentane	71	9.855	9.855	(0.951)	204060	2.17928	5.448
47	1-Butanol	31	9.915	9.915	(0.956)	76785	2.26644	5.666
52	~ Thiophene	84	10.071	10.071	(0.971)	489858	2.21158	5.529
53	2,2,4-trimethylpentane	57	10.503	10.503	(1.013)	1348458	2.10322	5.258
54	Heptane	71	10.902	10.902	(1.051)	318814	2.07614	5.190
55	1,2-Dichloropropane	63	11.042	11.042	(1.065)	277287	2.00916	5.023
56	Trichloroethene	130	11.069	11.069	(1.068)	413972	2.22757	5.569
180	~ 2-nitropropane	43	11.106	11.106	(1.071)	474099	1.69020	4.225
57	Dibromomethane	93	11.177	11.177	(1.078)	345855	2.10059	5.251
58	Bromodichloromethane	83	11.328	11.328	(1.093)	698402	2.13556	5.339
60	Methyl Methacrylate	41	11.473	11.473	(1.107)	280395	1.75780	4.394
59	1,4-dioxane	88	11.452	11.452	(1.105)	80283	1.63348	4.084

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
61 ~ methyl cyclohexane	83	11.802	11.802	(1.138)	537829	2.23380	5.584
63 cis-1,3-Dichloropropene	75	12.352	12.352	(1.191)	456564	1.99162	4.979
62 4-Methyl-2-pentanone	43	12.352	12.352	(1.191)	483417	2.04791	5.120
64 trans-1,3-Dichloropropene	75	13.075	13.075	(0.862)	469636	1.92214	4.805
65 Toluene	91	13.161	13.161	(0.867)	883151	1.89653	4.741
66 1,1,2-Trichloroethane	83	13.274	13.274	(0.875)	256091	1.87020	4.676
67 ~ 2-methyl thiophene	97	13.323	13.323	(0.878)	774420	1.98472	4.962
68 ~ 3-methyl thiophene	97	13.528	13.528	(0.892)	773468	2.00825	5.021
69 2-Hexanone	58	13.716	13.716	(0.904)	225526	1.96753	4.919
70 Octane	85	13.835	13.835	(0.912)	331244	2.00350	5.009
71 Dibromochloromethane	129	13.975	13.975	(0.921)	616923	2.03312	5.083
72 1,2-Dibromoethane	107	14.256	14.256	(0.940)	495158	1.92176	4.804
73 Tetrachloroethene	129	14.310	14.310	(0.943)	367629	2.05525	5.138
75 ~ 2,3-dimethylheptane	43	15.210	15.210	(1.002)	835836	2.00019	5.000
74 Chlorobenzene	112	15.221	15.221	(1.003)	702957	1.89157	4.729
76 Ethylbenzene	91	15.507	15.507	(1.022)	1084904	1.84663	4.616
77 ~ 2-ethyl thiophene	97	15.614	15.620	(1.029)	891054	1.90573	4.764
78 m&p-Xylene	91	15.674	15.674	(1.033)	1646721	3.60234	9.006
79 Nonane	57	16.078	16.084	(1.060)	546694	1.90470	4.762
80 Bromoform	173	16.143	16.143	(1.064)	608915	1.97201	4.930
81 Styrene	104	16.154	16.154	(1.065)	649672	1.92329	4.808
82 o-Xylene	91	16.202	16.208	(1.068)	843800	1.77031	4.426
84 1,1,2,2-Tetrachloroethane	83	16.569	16.569	(1.092)	586707	1.83658	4.591
85 1,2,3-Trichloropropane	110	16.725	16.725	(1.102)	186320	1.76037	4.401
86 Cumene	105	16.795	16.801	(1.107)	1187551	1.73312	4.333
87 n-Propylbenzene	120	17.351	17.351	(1.144)	315650	1.77899	4.447
88 2-chlorotoluene	126	17.399	17.399	(1.147)	314994	1.84676	4.617
89 4-Ethyltoluene	105	17.507	17.513	(1.154)	1170483	1.79372	4.484
90 1,3,5-Trimethylbenzene	120	17.588	17.593	(1.159)	547623	1.81878	4.547
91 Alpha-Methylstyrene	118	17.847	17.847	(1.176)	470349	1.79153	4.479
92 Decane	57	17.885	17.885	(1.179)	478168	1.61620	4.040
93 tert-butylbenzene	119	18.030	18.036	(1.188)	1007410	1.76373	4.409
94 1,2,4-Trimethylbenzene	105	18.052	18.052	(1.190)	943985	1.76975	4.424
95 sec-butylbenzene	105	18.316	18.316	(1.207)	1338839	1.77718	4.443
96 1,3-Dichlorobenzene	146	18.332	18.332	(1.208)	664710	1.82592	4.565
97 Benzyl Chloride	91	18.429	18.429	(1.215)	877076	1.83674	4.592
98 1,4-Dichlorobenzene	146	18.429	18.429	(1.215)	660556	1.84491	4.612
99 p-Cymene	119	18.489	18.489	(1.219)	1119587	1.78727	4.468
100 ~ 1,2,3- Trimethylbenzene	105	18.543	18.543	(1.222)	833362	1.88694	4.717
101 ~ n-butylcyclohexane	83	18.575	18.575	(1.224)	738871	1.90828	4.771
102 ~ Indane	117	18.796	18.796	(1.239)	857808	1.83900	4.597
103 1,2-Dichlorobenzene	146	18.801	18.801	(1.239)	605451	1.77623	4.440
104 n-butylbenzene	91	18.936	18.936	(1.248)	973007	1.85478	4.637
105 ~ Indene	116	18.936	18.936	(1.248)	671901	1.93352	4.834
106 Undecane	57	19.249	19.249	(1.269)	507604	2.38624	5.966
107 ~ 1,2-dimethyl-4-ethylenzene	119	19.319	19.324	(1.273)	888414	1.92225	4.806
108 ~ 1,2,4,5-tetramethylbenzene	119	19.713	19.713	(1.299)	857764	2.16582	5.414

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
109 ~ 1,2,3,5-tetramethylbenzene	119	19.772	19.772	(1.303)	669694	2.22567	5.564
110 ~ 1,2,3,4-tetramethylbenzene	119	20.166	20.166	(1.329)	719418	2.33194	5.830
111 Dodecane	57	20.317	20.317	(1.339)	498496	3.22482	8.062(R)
112 1,2,4-Trichlorobenzene	180	20.516	20.516	(1.352)	446678	2.57843	6.446
113 Napthalene	128	20.656	20.656	(1.361)	926175	2.60686	6.517
114 ~ benzo(b) thiophene	134	20.764	20.764	(1.369)	560132	2.41270	6.032
115 Hexachlorobutadiene	225	20.867	20.867	(1.375)	423583	1.96604	4.915
116 1,2,3-trichlorobenzene	180	20.942	20.942	(1.380)	396764	2.66859	6.671
117 ~ 2-Methylnaphthalene	142	21.783	21.783	(1.436)	702898	23.8402	59.60(R)
118 ~ 1-Methylnaphthalene	142	21.983	21.983	(1.449)	599208	23.9667	59.92(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mg.i/G121611I.b/gicvl16.d
Report Date: 19-Dec-2011 13:29

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: gicvl16.d
Lab Smp Id: ICV
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G121611I.b/TO15.m
Misc Info: G121611I,TO15,all.sub,,,,

Calibration Date: 16-DEC-2011
Calibration Time: 17:10
Client Smp ID: ICV
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	404705	240799	568611	402849	-0.46
2 1,4-Difluorobenze	2040248	1213948	2866548	2050886	0.52
3 Chlorobenzene-d5	1910925	1137000	2684850	1911482	0.03

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.24	7.91	8.57	8.24	0.00
2 1,4-Difluorobenze	10.37	10.04	10.70	10.37	0.00
3 Chlorobenzene-d5	15.17	14.84	15.50	15.17	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mg.i/G121611I.b/gicvl16.d
Report Date: 19-Dec-2011 13:29

TestAmerica Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: icv.spk
Sublist File: all.sub
Client SDG: G121611I
Fraction: OTHER
Client Smp ID: ICV
Operator: 7126
SampleType: 2ND SOURCE
Quant Type: ISTD
Method File: /var/chem/gcms/mg.i/G121611I.b/TO15.m
Misc Info: G121611I,TO15,all.sub,,,,

SPIKE	COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
5	Chlorodifluorometh	5.000	5.341	106.82	65-135
7	Dichlorodifluorome	5.000	5.274	105.48	65-135
6	Propene	5.000	5.185	103.71	65-135
9	1,2-Dichlorotetraf	5.000	5.326	106.51	65-135
8	Chloromethane	5.000	5.038	100.75	65-135
10	Methanol	5.000	3.309	66.19	65-135
11	~ acetaldehyde	23.76	18.85	79.33	65-135
12	Vinyl Chloride	5.000	5.232	104.64	65-135
13	n-Butane	5.000	5.192	103.84	65-135
14	1,3-Butadiene	5.000	5.376	107.52	65-135
15	Bromomethane	5.000	4.938	98.77	65-135
16	Chloroethane	5.000	4.861	97.22	65-135
17	~ ethanol	24.50	17.92	73.16	65-135
18	Vinyl Bromide	5.000	5.194	103.88	65-135
19	2-methyl butane	5.000	4.918	98.36	65-135
20	Trichlorofluoromet	5.000	5.184	103.68	65-135
21	Acrolein	5.000	3.500	69.99	65-135
22	Acetonitrile	5.000	3.827	76.54	65-135
23	Acetone	5.000	3.697	73.95	65-135
25	Pentane	5.000	4.820	96.39	65-135
24	Isopropyl alcohol	5.000	4.191	83.81	65-135
26	Ethyl Ether	5.000	4.254	85.08	65-135
27	1,1-Dichloroethene	5.000	6.055	121.11	65-135
29	Acrylonitrile	5.000	4.468	89.36	65-135
28	tert-butanol	5.000	5.453	109.07	65-135
30	1,1,2-Trichlorotri	5.000	5.919	118.39	65-135
31	Methylene Chloride	5.000	6.018	120.36	65-135
32	3-Chloropropene	5.000	5.285	105.70	65-135
33	Carbon Disulfide	5.000	5.384	107.69	65-135
34	trans-1,2-Dichloro	5.000	5.297	105.94	65-135
35	~ 2-Methyl Pentane	5.000	5.328	106.55	65-135
36	Methyl-t-Butyl Eth	5.000	4.360	87.21	65-135
37	1,1-Dichloroethane	5.000	5.653	113.06	65-135

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SPIKE	COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
38	Vinyl Acetate	5.000	4.476	89.53	65-135
39	2-Butanone	5.000	4.323	86.46	65-135
40	Hexane	5.000	5.169	103.39	65-135
41	cis 1,2-Dichloroet	5.000	5.811	116.21	65-135
42	Ethyl acetate	5.000	4.414	88.28	65-135
43	Chloroform	5.000	5.586	111.73	65-135
44	Tetrahydrofuran	5.000	4.412	88.24	65-135
45	1,1,1-Trichloroeth	5.000	5.591	111.81	65-135
46	1,2-Dichloroethane	5.000	5.404	108.09	65-135
47	1-Butanol	5.000	5.666	113.32	65-135
49	Cyclohexane	5.000	5.131	102.63	65-135
48	Benzene	5.000	5.400	108.01	65-135
50	Carbon Tetrachlori	5.000	5.685	113.70	65-135
51	~ 2,3-dimethylpent	5.050	5.448	107.89	65-135
52	~ Thiophene	5.000	5.529	110.58	65-135
53	2,2,4-trimethylpen	5.000	5.258	105.16	65-135
54	Heptane	5.000	5.190	103.81	65-135
55	1,2-Dichloropropan	5.000	5.023	100.46	65-135
56	Trichloroethene	5.000	5.569	111.38	65-135
57	Dibromomethane	5.000	5.251	105.03	65-135
58	Bromodichlorometha	5.000	5.339	106.78	65-135
59	1,4-dioxane	5.000	4.084	81.67	65-135
60	Methyl Methacrylat	5.000	4.394	87.89	65-135
61	~ methyl cyclohexa	5.062	5.584	110.31	65-135
62	4-Methyl-2-pentano	5.000	5.120	102.40	65-135
63	cis-1,3-Dichloropr	5.000	4.979	99.58	65-135
64	trans-1,3-Dichloro	5.000	4.805	96.11	65-135
65	Toluene	5.000	4.741	94.83	65-135
66	1,1,2-Trichloroeth	5.000	4.676	93.51	65-135
67	~ 2-methyl thiophe	5.012	4.962	98.99	65-135
68	~ 3-methyl thiophe	5.050	5.021	99.42	65-135
69	2-Hexanone	5.000	4.919	98.38	65-135
70	Octane	5.000	5.009	100.17	65-135
71	Dibromochlorometha	5.000	5.083	101.66	65-135
72	1,2-Dibromoethane	5.000	4.804	96.09	65-135
73	Tetrachloroethene	5.000	5.138	102.76	65-135
74	Chlorobenzene	5.000	4.729	94.58	65-135
75	~ 2,3-dimethylhept	5.112	5.000	97.81	65-135
76	Ethylbenzene	5.000	4.616	92.33	65-135
77	~ 2-ethyl thiophen	5.025	4.764	94.81	65-135
78	m&p-Xylene	10.00	9.006	90.06	65-135
79	Nonane	5.000	4.762	95.23	65-135
80	Bromoform	5.000	4.930	98.60	65-135
81	Styrene	5.000	4.808	96.16	65-135
82	o-Xylene	5.000	4.426	88.52	65-135
84	1,1,2,2-Tetrachlor	5.000	4.591	91.83	65-135
85	1,2,3-Trichloropro	5.000	4.401	88.02	65-135

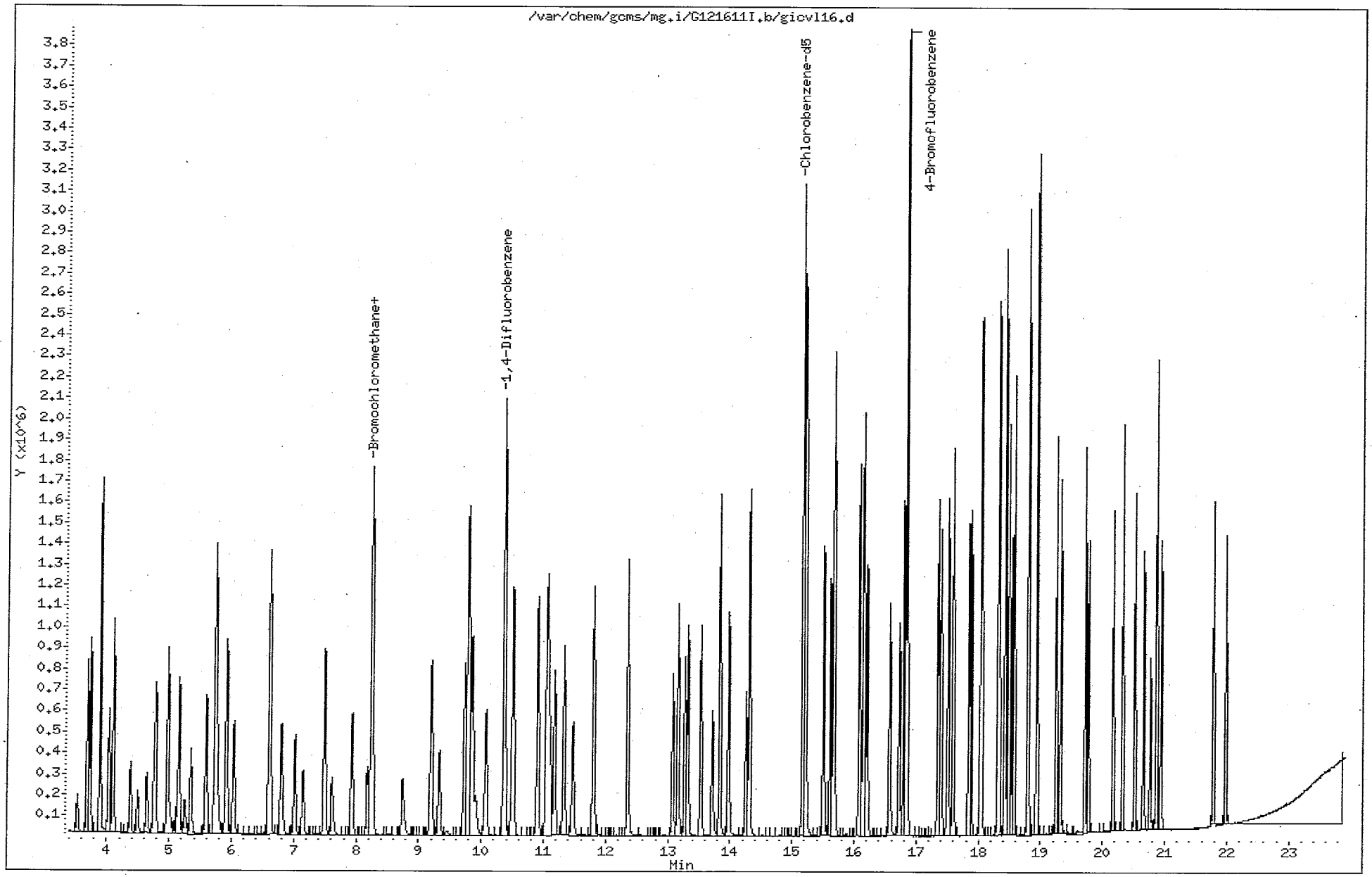
Data File: /var/chem/gcms/mg.i/G121611I.b/gicv116.d
Report Date: 19-Dec-2011 13:29

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
86 Cumene	5.000	4.333	86.66	65-135
87 n-Propylbenzene	5.000	4.447	88.95	65-135
88 2-chlorotoluene	5.000	4.617	92.34	65-135
89 4-Ethyltoluene	5.000	4.484	89.69	65-135
90 1,3,5-Trimethylben	5.000	4.547	90.94	65-135
91 Alpha-Methylstyren	5.000	4.479	89.58	65-135
92 Decane	5.000	4.040	80.81	65-135
94 1,2,4-Trimethylben	5.000	4.424	88.49	65-135
93 tert-butylbenzene	5.000	4.409	88.19	65-135
95 sec-butylbenzene	5.000	4.443	88.86	65-135
96 1,3-Dichlorobenzen	5.000	4.565	91.30	65-135
98 1,4-Dichlorobenzen	5.000	4.612	92.25	65-135
97 Benzyl Chloride	5.000	4.592	91.84	65-135
99 p-Cymene	5.000	4.468	89.36	65-135
100 ~ 1,2,3- Trimethyl	5.088	4.717	92.72	65-135
101 ~ n-butylcyclohexa	5.038	4.771	94.70	65-135
102 ~ Indane	5.100	4.597	90.15	65-135
103 1,2-Dichlorobenzen	5.000	4.440	88.81	65-135
104 n-butylbenzene	5.000	4.637	92.74	65-135
105 ~ Indene	5.012	4.834	96.43	65-135
106 Undecane	5.000	5.966	119.31	65-135
107 ~ 1,2-dimethyl-4-e	5.000	4.806	96.11	65-135
108 ~ 1,2,4,5-tetramet	5.112	5.414	105.91	65-135
109 ~ 1,2,3,5-tetramet	5.025	5.564	110.73	65-135
110 ~ 1,2,3,4-tetramet	5.125	5.830	113.75	65-135
111 Dodecane	5.000	8.062	161.24*	65-135
112 1,2,4-Trichloroben	5.000	6.446	128.92	65-135
113 Napthalene	5.000	6.517	130.34	65-135
114 ~ benzo(b) thiophe	5.088	6.032	118.56	65-135
115 Hexachlorobutadien	5.000	4.915	98.30	65-135
116 1,2,3-trichloroben	5.000	6.671	133.43	65-135
117 ~ 2-Methylnaphthal	31.25	59.60	190.72*	65-135
118 ~ 1-Methylnaphthal	31.25	59.92	191.73*	65-135

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	10.00	10.05	100.53	70-130

Data File: /var/chem/gcms/mg.i/G121611I.b/gicvl16.d
Date : 16-DEC-2011 21:35
Client ID: ICV
Sample Info: ICV,,3,,,ICV
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



TestAmerica Knoxville GC/MS Air Continuing Calibration Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 12 & KNOX-MS-0023, Rev 0

Analysis Date:	3/13/12	CCAL Batch/ Scan Name:	G031312	Instrument:	H6	ICAL Batch/ Scan Name:	6/2/16/11I	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd
1. Did BFB meet tune criteria?		✓		□ failed for TO-14A, but passes for TO-15	✓
2. Were all standards injected within 24 hr of BFB?		✓			✓
3. Have the Entech position no. & vol. been verified with run log & sample vol. corrected if actual amount differs >5%?		✓			✓
4. Was date/time of analysis in logbook correct?		✓			✓
5. Was the CCAL compared to the correct ICAL (date & time on CCAL matches the ICAL)		✓		123TO17 35'	✓
6. Is the %D ≤ 30% for all target analytes? (Narrative req'd.).		✓		□ [ccal] analytes > 30% but passes LCS criteria.	✓
7. Have all peaks been auto identified? If not, list:		✓			✓
8. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	MM
9. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				MM
10. Is the first IS documented correctly on the log?		✓			✓
11. Elution order checked on isomeric pairs?		✓			✓
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane		✓			✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane		✓			✓
• vinyl acetate / hexane		✓			✓
• cis- and trans- isomers		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene		✓			✓
• tert-butylbenzene/p-cymene		✓			✓
• 1,2,4-trimethylbenzene/sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene		✓			✓
12. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). Note: Ohio does not allow for ME.		✓		□ [lcs6] LCS analyte(s) flagged as being outside control limits but within marginal limits □ [lcs5] LCS outside marginal exceedences high, but analytes were not detected	✓
13. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				MM
14. Does the CCAL folder contain **complete** data in the following order: data review checklist, a **complete** runlog, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram, manual integrations.		✓			✓

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst:	**Date:** 3/13/12	**2nd Level Reviewer :**	**Date:** 3/14/12
Comments:		**Comments:**	

TestAmerica Laboratories, Inc. – Knoxville 68
CANISTER RUN LOG

GCMS Analysis: AIR Inst: MG

Analyst: HLC Qtims Batch: 207312 & (MRD7A)

Date: 3/13/12 ICAL Batch: G121611I Target Batch: G0313/2 IS #1 Area: 561154

Surr/IS ID & Vol.: 40uCV425 System Date/Time ok (y/n): Y

Preventive Maintenance Performed ☑ Daily

Time	Use	Lot No.	File ID	Can #	Pos	Vol* (mL)	Can DF	Comments
1136	✓	tune	GBFBC13	—	16	100	1	
1204	N	CCV	CCV T	CX2323	15			
1306	✓	CCV	GCCVC13A	CX2321				
1306	✓	LCS	LCS T					
1421	✓	BLK	GBLKC13	-	16	500		
1518	✓	lot ✓	9784	1524	15	500		
1614	✓	H2C130401	MRDHH1AA	12879	1	500	1	Mystic
1717	✓		DHJ T	04337	2			
1813	✓		DHK	0112	3			
1912	✓		DHL	0120	4			
2016	✓		DHM	93170	5			
2118	✓		DHN	12264	6			
2215	✓ (E)		DHP	3283N	7			(E) ethanol RR? 250mL
2312	✓		DHQ	1411	8			
0005	✓		DHR	04746	9			
0101	✓		DHT	12891	10			
0158	(E) ✓	H2C130429	MRDNW	7782	11			(E) chloroform (RR 250mL)
0253	(E) ✓		N1	1525	12			(E) ethanol (RR 10mL) 20
0352	✓		N4	2996	13			
0454	✓		N6	6676	14			(E) ethanol (RR 50mL) 100
0554	✓		N8 ✓	1370	15			
0650	dup	3/13/12	N8DT		15			
0747	✓		N91AA	1538	1			
0842	✓		PA	62273	2		✓	
Not	Run	Lot 9783	12813 →		$7	3/12/12		
1032	F		02643 →		4			mcl
1127	✓		038763 →		5			RR
Not	Run		0178 →		6			
0936	200mL	Lot ✓	9787	1331N	3			or no n-butane

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calulations.

Analyst: [signature] Date: 3/14/12

Test America - Knoxville

Entech Autosampler Log

Position	Volume	Date	Time
16	100	3/13/2012	11:36
15	101	3/13/2012	12:04
15	101	3/13/2012	13:06
16	500	3/13/2012	14:21
15	501	3/13/2012	15:18
1	502	3/13/2012	16:14
2	501	3/13/2012	17:17
3	501	3/13/2012	18:13
4	502	3/13/2012	19:12
5	501	3/13/2012	20:16
6	502	3/13/2012	21:18
7	501	3/13/2012	22:15
8	501	3/13/2012	23:12
9	501	3/14/2012	0:05
10	501	3/14/2012	1:01
11	501	3/14/2012	1:58
12	502	3/14/2012	2:53
13	501	3/14/2012	3:52
14	502	3/14/2012	4:54
15	502	3/14/2012	5:54
15	501	3/14/2012	6:50
1	501	3/14/2012	7:47
2	501	3/14/2012	8:42
3	500	3/14/2012	9:36
4	500	3/14/2012	10:32
5	500	3/14/2012	11:27

Data File: /chem/gcms/mg.i/G031312.b/gbfbc13.d

Date : 13-MAR-2012 11:36

Client ID: BFB

Instrument: mg.i

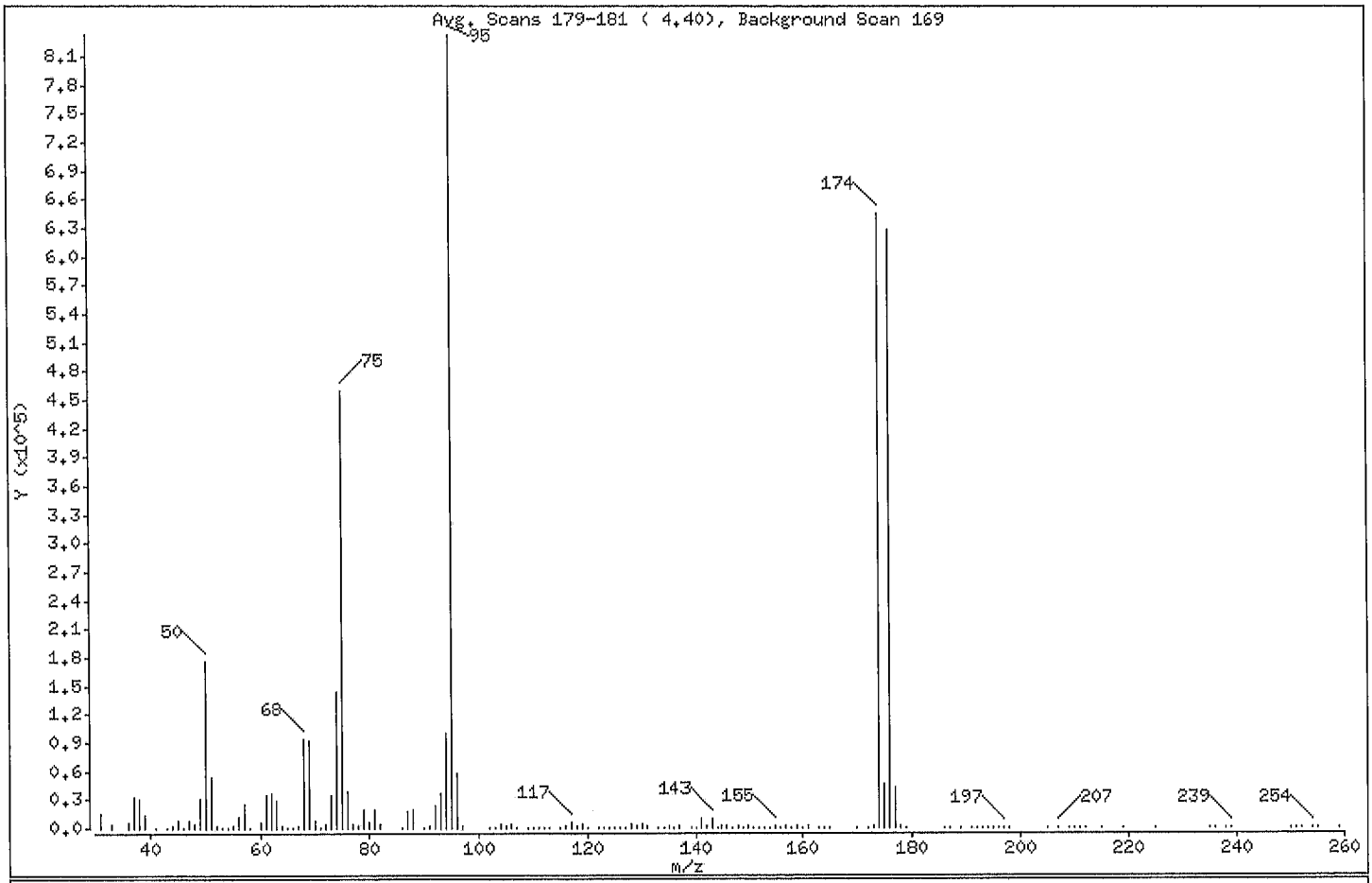
Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: RTX-5

Column diameter: 0.32

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	21.16
75	30.00 - 60.00% of mass 95	55.19
96	5.00 - 9.00% of mass 95	6.99
173	Less than 2.00% of mass 174	0.31 (0.41)
174	50.00 - 120.00% of mass 95	77.51
175	5.00 - 9.00% of mass 174	5.56 (7.17)
176	95.00 - 101.00% of mass 174	75.35 (97.22)
177	5.00 - 9.00% of mass 176	4.96 (6.58)

Data File: /chem/gcms/mg.i/G031312.b/gbfbc13.d

Date : 13-MAR-2012 11:36

Client ID: BFB

Instrument: mg.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: RTX-5

Column diameter: 0.32

Data File: gbfbc13.d

Spectrum: Avg. Scans 179-181 (4.40), Background Scan 169

Location of Maximum: 95.00

Number of points: 154

m/z	Y	m/z	Y	m/z	Y	m/z	Y
31.00	15011	76.00	37376	126.00	240	173.00	2623
33.00	3082	77.00	3342	127.00	475	174.00	645824
36.00	5148	78.00	1691	128.00	3010	175.00	46304
37.00	32336	79.00	19016	129.00	1319	176.00	627840
38.00	31160	80.00	6557	130.00	3037	177.00	41304
39.00	14188	81.00	19824	131.00	1048	178.00	1208
41.00	256	82.00	4605	133.00	190	179.00	311
43.00	284	86.00	524	134.00	98	186.00	54
44.00	2635	87.00	18040	135.00	1182	187.00	266
45.00	7145	88.00	18976	136.00	77	189.00	83
46.00	316	90.00	50	137.00	1698	191.00	166
47.00	6792	91.00	2469	139.00	325	192.00	137
48.00	3744	92.00	22200	140.00	619	193.00	268
49.00	30952	93.00	37072	141.00	9935	194.00	268
50.00	176256	94.00	98664	142.00	1368	195.00	44
51.00	53816	95.00	833152	143.00	10134	196.00	130
52.00	1780	96.00	58208	144.00	478	197.00	565
53.00	5	97.00	1310	145.00	1068	198.00	65
54.00	171	102.00	184	146.00	1305	205.00	282
55.00	1287	103.00	378	147.00	716	207.00	568
56.00	11257	104.00	3532	148.00	2130	209.00	40
57.00	24624	105.00	1916	149.00	907	210.00	113
58.00	692	106.00	3214	150.00	1034	211.00	137
60.00	5541	107.00	583	151.00	300	212.00	62
61.00	33832	109.00	66	152.00	138	215.00	64
62.00	36816	110.00	461	153.00	736	219.00	53
63.00	28440	111.00	748	154.00	466	225.00	55
64.00	2369	112.00	649	155.00	2643	235.00	127
65.00	288	113.00	575	156.00	594	236.00	58
66.00	9	115.00	952	157.00	1685	238.00	104
67.00	1815	116.00	2405	158.00	11	239.00	224
68.00	93512	117.00	5217	159.00	1148	250.00	111
69.00	91616	118.00	2368	160.00	52	251.00	188
70.00	6772	119.00	4132	161.00	1170	252.00	136
71.00	319	120.00	272	163.00	25	254.00	341

Data File: /chem/gcms/mg.i/G031312.b/gbfbc13.d

Date : 13-MAR-2012 11:36

Client ID: BFB

Instrument: mg.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: RTX-5

Column diameter: 0.32

Data File: gbfbc13.d

Spectrum: Avg. Scans 179-181 (4.40), Background Scan 169

Location of Maximum: 95.00

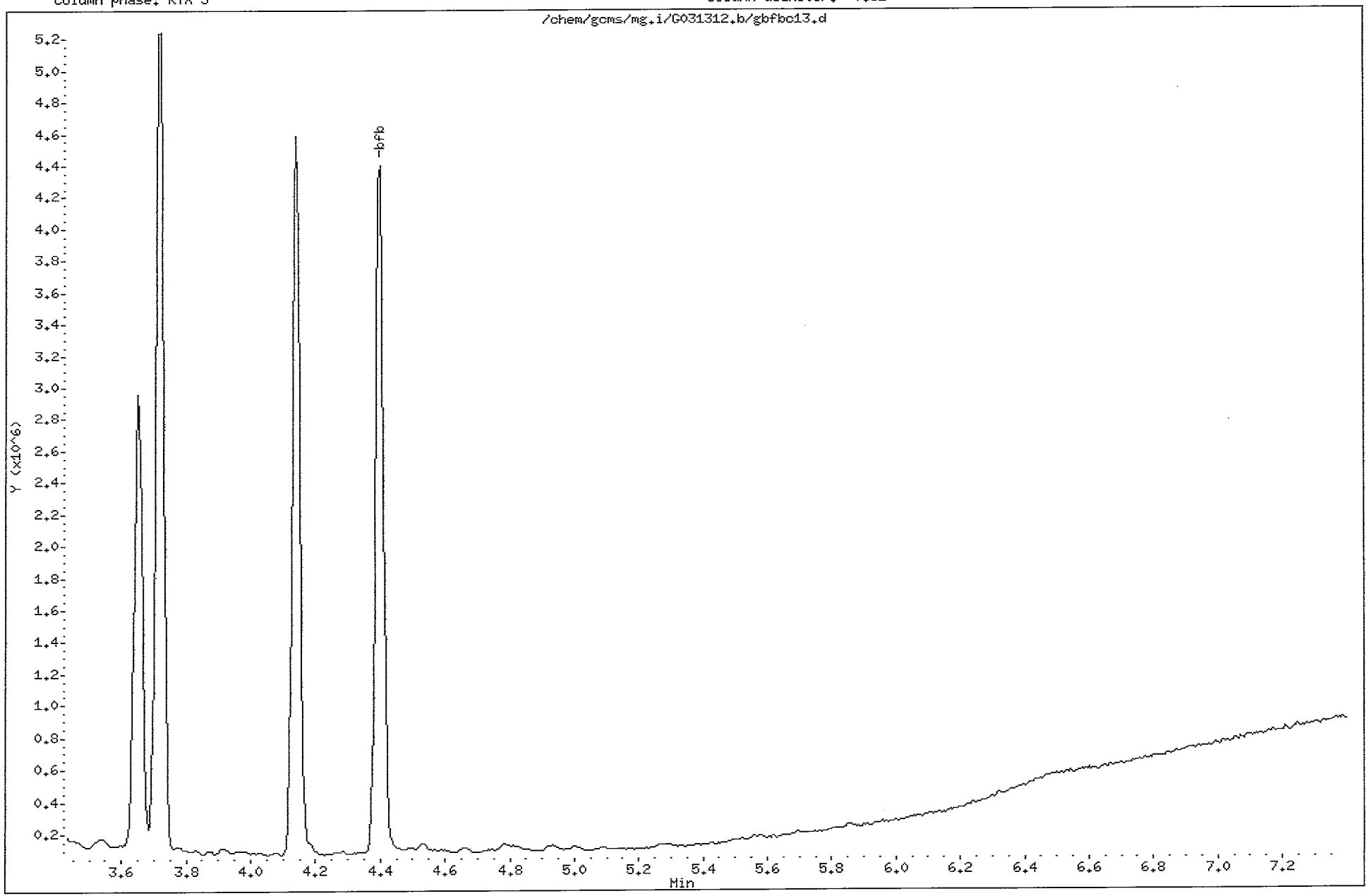
Number of points: 154

m/z	Y	m/z	Y	m/z	Y	m/z	Y
72.00	3586	122.00	318	164.00	50	255.00	133
73.00	33936	123.00	138	165.00	259	259.00	55
74.00	143680	124.00	447	170.00	54		
75.00	459776	125.00	300	172.00	304		

Data File: /chem/gcms/mg.i/G031312.b/gbfbc13.d
Date : 13-MAR-2012 11:36
Client ID: BFB
Sample Info: BFB,,3,,,BFB

Instrument: mg.i
Operator: 7126
Column diameter: 0.32

Column phase: RTX-5



Data File: /var/chem/gcms/mg.i/G031312.b/gccvc13a.d
Report Date: 13-Mar-2012 14:45

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mg.i
Lab File ID: gccvc13a.d
Analysis Type: AIR
Lab Sample ID: CCV
Method: /chem/gcms/mg.i/G031312.b/TO15.m

Injection Date: 13-MAR-2012 13:06
Init. Cal. Date(s): 16-DEC-2011 16-DEC-2011
Init. Cal. Times: 12:39 19:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 4-Bromofluorobenzene	0.72431	0.79672	0.79672	0.000	-9.99640	30.00000	Averaged	
M 83 Xylene (total)	0.97020	0.96888	0.96888	0.000	0.13690	30.00000	Averaged	
5 Chlorodifluoromethane	0.41547	0.48914	0.48914	0.000	-17.73067	30.00000	Averaged	
6 Propene	1.03852	1.31968	1.31968	0.000	-27.07344	30.00000	Averaged	
7 Dichlorodifluoromethane	3.83777	4.81433	4.81433	0.000	-25.44602	30.00000	Averaged	
8 Chloromethane	0.37112	0.43846	0.43846	0.000	-18.14759	30.00000	Averaged	
9 1,2-Dichlorotetrafluoroetha	2.45669	2.52338	2.52338	0.000	-2.71452	30.00000	Averaged	
10 Methanol	0.67928	0.31451	0.31451	0.000	53.69904	30.00000	Averaged	<-
11 ~ acetaldehyde	0.17242	0.41532	0.41532	0.000	-141	30.00000	Averaged	<-
12 Vinyl Chloride	1.31559	1.46086	1.46086	0.000	-11.04182	30.00000	Averaged	
13 n-Butane	2.02661	2.41424	2.41424	0.000	-19.12694	30.00000	Averaged	
14 1,3-Butadiene	0.95696	1.20105	1.20105	0.000	-25.50722	30.00000	Averaged	
15 Bromomethane	1.21489	1.18508	1.18508	0.000	2.45301	30.00000	Averaged	
16 Chloroethane	0.67122	0.67736	0.67736	0.000	-0.91457	30.00000	Averaged	
17 ~ ethanol	0.37127	0.36455	0.36455	0.000	1.81220	30.00000	Averaged	
18 Vinyl Bromide	1.19446	1.08682	1.08682	0.000	9.01103	30.00000	Averaged	
19 2-methyl butane	1.38315	1.54983	1.54983	0.000	-12.05082	30.00000	Averaged	
20 Trichlorofluoromethane	3.85194	3.57026	3.57026	0.000	7.31284	30.00000	Averaged	
21 Acrolein	0.37832	0.28560	0.28560	0.000	24.50893	30.00000	Averaged	
22 Acetonitrile	0.36980	0.40524	0.40524	0.000	-9.58352	30.00000	Averaged	
25 Pentane	0.24222	0.20793	0.20793	0.000	14.15572	30.00000	Averaged	
23 Acetone	0.45957	0.42668	0.42668	0.000	7.15755	30.00000	Averaged	
24 Isopropyl alcohol	1.29096	1.23994	1.23994	0.000	3.95166	30.00000	Averaged	
26 Ethyl Ether	1.42656	1.47226	1.47226	0.000	-3.20353	30.00000	Averaged	
27 1,1-Dichloroethene	1.13962	1.17612	1.17612	0.000	-3.20333	30.00000	Averaged	
29 Acrylonitrile	0.83975	0.81338	0.81338	0.000	3.14075	30.00000	Averaged	
30 1,1,2-Trichlorotrifluoroeth	2.45969	2.32816	2.32816	0.000	5.34750	30.00000	Averaged	
28 tert-butanol	1.57466	1.76672	1.76672	0.000	-12.19726	30.00000	Averaged	
31 Methylene Chloride	1.08157	1.08279	1.08279	0.000	-0.11248	30.00000	Averaged	
32 3-Chloropropene	1.23611	1.14890	1.14890	0.000	7.05551	30.00000	Averaged	
33 Carbon Disulfide	3.95814	3.93720	3.93720	0.000	0.52907	30.00000	Averaged	
35 ~ 2-Methyl Pentane	3.05541	3.68922	3.68922	0.000	-20.74414	30.00000	Averaged	
34 trans-1,2-Dichloroethene	1.38740	1.39484	1.39484	0.000	-0.53605	30.00000	Averaged	
36 Methyl-t-Butyl Ether	3.55874	3.52763	3.52763	0.000	0.87421	30.00000	Averaged	
37 1,1-Dichloroethane	2.43948	2.89708	2.89708	0.000	-18.75797	30.00000	Averaged	

Data File: /var/chem/gcms/mg.i/G031312.b/gccvc13a.d
Report Date: 13-Mar-2012 14:45

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mg.i
Lab File ID: gccvc13a.d
Analysis Type: AIR
Lab Sample ID: CCV
Method: /chem/gcms/mg.i/G031312.b/TO15.m

Injection Date: 13-MAR-2012 13:06
Init. Cal. Date(s): 16-DEC-2011 16-DEC-2011
Init. Cal. Times: 12:39 19:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
38 Vinyl Acetate	3.02039	3.49220	3.49220	0.000	-15.62086	30.00000	Averaged
39 2-Butanone	0.54195	0.48877	0.48877	0.000	9.81273	30.00000	Averaged
40 Hexane	1.15813	1.34804	1.34804	0.000	-16.39755	30.00000	Averaged
41 cis 1,2-Dichloroethene	1.31340	1.42686	1.42686	0.000	-8.63859	30.00000	Averaged
42 Ethyl acetate	2.49181	2.60935	2.60935	0.000	-4.71715	30.00000	Averaged
43 Chloroform	2.90238	3.23434	3.23434	0.000	-11.43767	30.00000	Averaged
44 Tetrahydrofuran	1.28959	1.49935	1.49935	0.000	-16.26527	30.00000	Averaged
45 1,1,1-Trichloroethane	3.19475	3.71525	3.71525	0.000	-16.29246	30.00000	Averaged
46 1,2-Dichloroethane	0.39537	0.46431	0.46431	0.000	-17.43750	30.00000	Averaged
49 Cyclohexane	0.14256	0.14699	0.14699	0.000	-3.10584	30.00000	Averaged
48 Benzene	0.75191	0.79723	0.79723	0.000	-6.02776	30.00000	Averaged
50 Carbon Tetrachloride	0.64773	0.65398	0.65398	0.000	-0.96559	30.00000	Averaged
51 ~ 2,3-dimethylpentane	0.18263	0.18638	0.18638	0.000	-2.05442	30.00000	Averaged
47 1-Butanol	0.06608	0.08340	0.08340	0.000	-26.22161	30.00000	Averaged
52 ~ Thiophene	0.43200	0.43675	0.43675	0.000	-1.09970	30.00000	Averaged
53 2,2,4-trimethylpentane	1.25046	1.51043	1.51043	0.000	-20.78967	30.00000	Averaged
54 Heptane	0.29950	0.30512	0.30512	0.000	-1.87638	30.00000	Averaged
55 1,2-Dichloropropane	0.26917	0.30445	0.30445	0.000	-13.10508	30.00000	Averaged
56 Trichloroethene	0.36246	0.34470	0.34470	0.000	4.89803	30.00000	Averaged
180 ~ 2-nitropropane	0.54708	0.48553	0.48553	0.000	11.25097	30.00000	Averaged
57 Dibromomethane	0.32112	0.31929	0.31929	0.000	0.56983	30.00000	Averaged
58 Bromodichloromethane	0.63784	0.69010	0.69010	0.000	-8.19304	30.00000	Averaged
60 Methyl Methacrylate	0.31111	0.31362	0.31362	0.000	-0.80549	30.00000	Averaged
59 1,4-dioxane	0.09586	0.08270	0.08270	0.000	13.73054	30.00000	Averaged
61 ~ methyl cyclohexane	0.46959	0.48660	0.48660	0.000	-3.62211	30.00000	Averaged
63 cis-1,3-Dichloropropene	0.44711	0.46938	0.46938	0.000	-4.98080	30.00000	Averaged
62 4-Methyl-2-pentanone	0.46039	0.52945	0.52945	0.000	-14.99927	30.00000	Averaged
64 trans-1,3-Dichloropropene	0.51129	0.51318	0.51318	0.000	-0.36941	30.00000	Averaged
65 Toluene	0.97446	0.92102	0.92102	0.000	5.48434	30.00000	Averaged
66 1,1,2-Trichloroethane	0.28655	0.27939	0.27939	0.000	2.49689	30.00000	Averaged
67 ~ 2-methyl thiophene	0.81652	0.75028	0.75028	0.000	8.11200	30.00000	Averaged
68 ~ 3-methyl thiophene	0.80596	0.76429	0.76429	0.000	5.16989	30.00000	Averaged
69 2-Hexanone	0.23986	0.26548	0.26548	0.000	-10.67846	30.00000	Averaged
70 Octane	0.34598	0.33551	0.33551	0.000	3.02667	30.00000	Averaged
71 Dibromochloromethane	0.63498	0.62841	0.62841	0.000	1.03485	30.00000	Averaged

Data File: /var/chem/gcms/mg.i/G031312.b/gccvc13a.d
Report Date: 13-Mar-2012 14:45

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mg.i
Lab File ID: gccvc13a.d
Analysis Type: AIR
Lab Sample ID: CCV
Method: /chem/gcms/mg.i/G031312.b/TO15.m

Injection Date: 13-MAR-2012 13:06
Init. Cal. Date(s): 16-DEC-2011 16-DEC-2011
Init. Cal. Times: 12:39 19:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
72 1,2-Dibromoethane	0.53918	0.49144	0.49144	0.000	8.85493	30.00000	Averaged
73 Tetrachloroethene	0.37431	0.36068	0.36068	0.000	3.64164	30.00000	Averaged
75 ~ 2,3-dimethylheptane	0.87446	1.05631	1.05631	0.000	-20.79614	30.00000	Averaged
74 Chlorobenzene	0.77767	0.70527	0.70527	0.000	9.31009	30.00000	Averaged
76 Ethylbenzene	1.22942	1.23963	1.23963	0.000	-0.83069	30.00000	Averaged
77 ~ 2-ethyl thiophene	0.97844	0.96760	0.96760	0.000	1.10751	30.00000	Averaged
78 m&p-Xylene	0.95659	0.96196	0.96196	0.000	-0.56137	30.00000	Averaged
79 Nonane	0.60063	0.71533	0.71533	0.000	-19.09639	30.00000	Averaged
80 Bromoform	0.64616	0.52979	0.52979	0.000	18.00819	30.00000	Averaged
81 Styrene	0.70687	0.66514	0.66514	0.000	5.90284	30.00000	Averaged
82 o-Xylene	0.99743	0.98271	0.98271	0.000	1.47548	30.00000	Averaged
84 1,1,2,2-Tetrachloroethane	0.66850	0.63632	0.63632	0.000	4.81318	30.00000	Averaged
85 1,2,3-Trichloropropane	0.22149	0.21071	0.21071	0.000	4.86737	30.00000	Averaged
86 Cumene	1.43388	1.27993	1.27993	0.000	10.73678	30.00000	Averaged
87 n-Propylbenzene	0.37130	0.33316	0.33316	0.000	10.27157	30.00000	Averaged
88 2-chlorotoluene	0.35693	0.31796	0.31796	0.000	10.91826	30.00000	Averaged
89 4-Ethyltoluene	1.36553	1.23719	1.23719	0.000	9.39798	30.00000	Averaged
90 1,3,5-Trimethylbenzene	0.63007	0.56954	0.56954	0.000	9.60815	30.00000	Averaged
91 Alpha-Methylstyrene	0.54940	0.46559	0.46559	0.000	15.25476	30.00000	Averaged
92 Decane	0.61912	0.60589	0.60589	0.000	2.13653	30.00000	Averaged
93 tert-butylbenzene	1.19526	1.06994	1.06994	0.000	10.48472	30.00000	Averaged
94 1,2,4-Trimethylbenzene	1.11620	0.99480	0.99480	0.000	10.87632	30.00000	Averaged
95 sec-butylbenzene	1.57647	1.39471	1.39471	0.000	11.52938	30.00000	Averaged
96 1,3-Dichlorobenzene	0.76180	0.64715	0.64715	0.000	15.04999	30.00000	Averaged
97 Benzyl Chloride	0.99926	0.93123	0.93123	0.000	6.80882	30.00000	Averaged
98 1,4-Dichlorobenzene	0.74925	0.64053	0.64053	0.000	14.50968	30.00000	Averaged
99 p-Cymene	1.31086	1.10932	1.10932	0.000	15.37514	30.00000	Averaged
100 ~ 1,2,3- Trimethylbenzene	0.92420	0.87327	0.87327	0.000	5.51073	30.00000	Averaged
101 ~ n-butylcyclohexane	0.81024	0.82002	0.82002	0.000	-1.20666	30.00000	Averaged
102 ~ Indane	0.97611	0.90364	0.90364	0.000	7.42458	30.00000	Averaged
103 1,2-Dichlorobenzene	0.71330	0.58697	0.58697	0.000	17.71057	30.00000	Averaged
104 n-butylbenzene	1.09777	1.00058	1.00058	0.000	8.85358	30.00000	Averaged
105 ~ Indene	0.72719	0.63786	0.63786	0.000	12.28414	30.00000	Averaged
106 Undecane	0.44514	0.44917	0.44917	0.000	-0.90481	30.00000	Averaged
107 ~ 1,2-dimethyl-4-ethylenzen	0.96715	0.84200	0.84200	0.000	12.94028	30.00000	Averaged
108 ~ 1,2,4,5-tetramethylbenzen	0.82877	0.72418	0.72418	0.000	12.62038	30.00000	Averaged

Data File: /var/chem/gcms/mg.i/G031312.b/gccvc13a.d
Report Date: 13-Mar-2012 14:45

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mg.i
Lab File ID: gccvc13a.d
Analysis Type: AIR
Lab Sample ID: CCV
Method: /chem/gcms/mg.i/G031312.b/TO15.m

Injection Date: 13-MAR-2012 13:06
Init. Cal. Date(s): 16-DEC-2011 16-DEC-2011
Init. Cal. Times: 12:39 19:51
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
109 ~ 1,2,3,5-tetramethylbenzen	0.62966	0.52558	0.52558	0.000	16.52917	30.00000	Averaged	
110 ~ 1,2,3,4-tetramethylbenzen	0.64559	0.57039	0.57039	0.000	11.64779	30.00000	Averaged	
111 Dodecane	0.32348	0.32835	0.32835	0.000	-1.50487	30.00000	Averaged	
112 1,2,4-Trichlorobenzene	0.36252	0.25700	0.25700	0.000	29.10738	30.00000	Averaged	
113 Napthalene	0.74347	0.57553	0.57553	0.000	22.58933	30.00000	Averaged	
114 ~ benzo(b) thiophene	0.48582	0.42034	0.42034	0.000	13.47943	30.00000	Averaged	
115 Hexachlorobutadiene	0.45085	0.32791	0.32791	0.000	27.26878	30.00000	Averaged	
116 1,2,3-trichlorobenzene	1.33374	2.00000	0.19566	0.000	33.31286	30.00000	Quadratic	<- 40-140 50-150
117 ~ 2-Methylnaphthalene	0.06170	0.04286	0.04286	0.000	30.53699	30.00000	Averaged	<-
118 ~ 1-Methylnaphthalene	0.05232	0.03428	0.03428	0.000	34.47903	30.00000	Averaged	<-

Data File: /var/chem/gcms/mg.i/G031312.b/gccvc13a.d
Report Date: 13-Mar-2012 14:45

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/gccvc13a.d
Lab Smp Id: CCV Client Smp ID: CCV/LCS
Inj Date : 13-MAR-2012 13:06
Operator : 7126 Inst ID: mg.i
Smp Info : CCV,,2,6,,CCV/LCS
Misc Info : G031312,TO15,all.sub,,,,
Comment :
Method : /chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 13-Mar-2012 14:45 tajh Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 15 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1	Bromochloromethane	128	8.168	8.168	(1.000)	561154	4.00000	4.000
*	2	1,4-Difluorobenzene	114	10.281	10.281	(1.000)	2909107	4.00000	4.000
*	3	Chlorobenzene-d5	117	15.102	15.102	(1.000)	2830968	4.00000	4.000
$	4	4-Bromofluorobenzene	95	16.779	16.779	(1.111)	2255480	4.00000	4.400
M	83	Xylene (total)	100				4114286	6.00000	5.993
	5	Chlorodifluoromethane	67	3.676	3.676	(0.450)	137241	2.00000	2.355
	6	Propene	41	3.687	3.687	(0.451)	370271	2.00000	2.541
	7	Dichlorodifluoromethane	85	3.724	3.724	(0.456)	1350792	2.00000	2.509
	8	Chloromethane	52	3.875	3.875	(0.474)	123023	2.00000	2.363
	9	1,2-Dichlorotetrafluoroethane	135	3.881	3.881	(0.475)	708002	2.00000	2.054
	11	~ acetaldehyde	44	4.016	4.016	(0.492)	589643	10.1200	24.38
	12	Vinyl Chloride	62	4.021	4.021	(0.492)	409883	2.00000	2.221
	13	n-Butane	43	4.086	4.086	(0.500)	677382	2.00000	2.382
	14	1,3-Butadiene	54	4.091	4.091	(0.501)	336987	2.00000	2.510
	15	Bromomethane	94	4.361	4.361	(0.534)	332507	2.00000	1.951

Data File: /var/chem/gcms/mg.i/G031312.b/gccvc13a.d
Report Date: 13-Mar-2012 14:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
16	Chloroethane	64	4.474	4.474	(0.548)	190051	2.00000	2.018
17	~ ethanol	31	4.609	4.609	(0.564)	533919	10.4400	10.25
18	Vinyl Bromide	106	4.722	4.722	(0.578)	304938	2.00000	1.820
19	2-methyl butane	43	4.749	4.749	(0.581)	434848	2.00000	2.241
20	Trichlorofluoromethane	101	4.943	4.943	(0.605)	1001733	2.00000	1.854
21	Acrolein	56	4.992	4.992	(0.611)	80132	2.00000	1.510
22	Acetonitrile	40	5.072	5.072	(0.621)	113701	2.00000	2.192
25	Pentane	72	5.116	5.116	(0.626)	58340	2.00000	1.717
23	Acetone	58	5.121	5.121	(0.627)	119716	2.00000	1.857
24	Isopropyl alcohol	45	5.213	5.213	(0.638)	347899	2.00000	1.921
26	Ethyl Ether	31	5.310	5.310	(0.650)	413084	2.00000	2.064
27	1,1-Dichloroethene	96	5.547	5.547	(0.679)	329993	2.00000	2.064
29	Acrylonitrile	53	5.698	5.698	(0.698)	228215	2.00000	1.937
30	1,1,2-Trichlorotrifluoroethane	101	5.693	5.693	(0.697)	653228	2.00000	1.893
28	tert-butanol	59	5.736	5.736	(0.702)	495701	2.00000	2.244
31	Methylene Chloride	84	5.870	5.870	(0.719)	303806	2.00000	2.002
32	3-Chloropropene	39	5.870	5.870	(0.719)	322354	2.00000	1.859
33	Carbon Disulfide	76	5.978	5.978	(0.732)	1104688	2.00000	1.989
35	~ 2-Methyl Pentane	43	6.539	6.539	(0.801)	1035113	2.00000	2.415
34	trans-1,2-Dichloroethene	96	6.561	6.561	(0.803)	391361	2.00000	2.011
36	Methyl-t-Butyl Ether	73	6.739	6.739	(0.825)	989772	2.00000	1.982
37	1,1-Dichloroethane	63	6.954	6.954	(0.851)	812855	2.00000	2.375
38	Vinyl Acetate	43	7.084	7.084	(0.867)	979833	2.00000	2.312
39	2-Butanone	72	7.553	7.553	(0.925)	137137	2.00000	1.804
40	Hexane	56	7.418	7.418	(0.908)	378229	2.00000	2.328
41	cis 1,2-Dichloroethene	96	7.866	7.866	(0.963)	400345	2.00000	2.173
42	Ethyl acetate	43	8.108	8.108	(0.993)	732124	2.00000	2.094
43	Chloroform	83	8.178	8.178	(1.001)	907483	2.00000	2.229
44	Tetrahydrofuran	42	8.669	8.669	(1.061)	420682	2.00000	2.325
45	1,1,1-Trichloroethane	97	9.111	9.111	(1.116)	1042415	2.00000	2.326
46	1,2-Dichloroethane	62	9.251	9.251	(0.900)	675360	2.00000	2.349
49	Cyclohexane	69	9.645	9.645	(0.938)	213797	2.00000	2.062
48	Benzene	78	9.699	9.699	(0.943)	1159615	2.00000	2.120
50	Carbon Tetrachloride	117	9.710	9.710	(0.944)	951254	2.00000	2.019
51	~ 2,3-dimethylpentane	71	9.758	9.758	(0.949)	279230	2.06000	2.102
47	1-Butanol	31	9.850	9.850	(0.958)	121315	2.00000	2.524
52	~ Thiophene	84	9.985	9.985	(0.971)	660693	2.08000	2.103
53	2,2,4-trimethylpentane	57	10.411	10.411	(1.013)	2197004	2.00000	2.416
54	Heptane	71	10.810	10.810	(1.051)	443816	2.00000	2.038
55	1,2-Dichloropropane	63	10.955	10.955	(1.066)	442838	2.00000	2.262
56	Trichloroethene	130	10.982	10.982	(1.068)	501391	2.00000	1.902
180	~ 2-nitropropane	43	11.031	11.031	(1.073)	706225	2.00000	1.775
57	Dibromomethane	93	11.096	11.096	(1.079)	464429	2.00000	1.989
58	Bromodichloromethane	83	11.247	11.247	(1.094)	1003784	2.00000	2.164
60	Methyl Methacrylate	41	11.403	11.403	(1.109)	456176	2.00000	2.016
59	1,4-dioxane	88	11.381	11.381	(1.107)	120285	2.00000	1.725
61	~ methyl cyclohexane	83	11.716	11.716	(1.139)	736096	2.08000	2.155

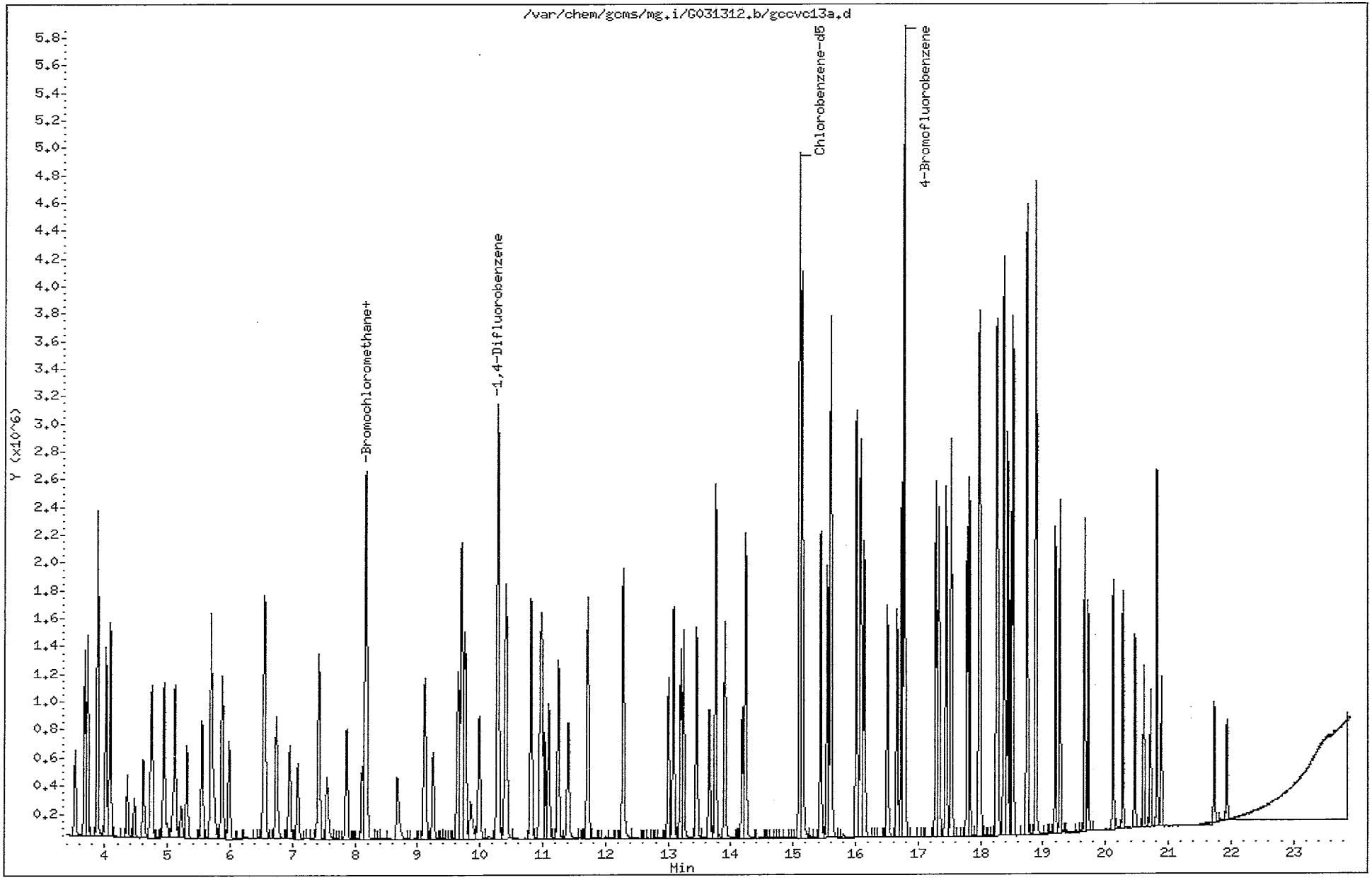
Data File: /var/chem/gcms/mg.i/G031312.b/gccvc13a.d
Report Date: 13-Mar-2012 14:45

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	12.277	12.277	(1.194)	682738	2.00000	2.100
62	4-Methyl-2-pentanone	43	12.282	12.282	(1.195)	770111	2.00000	2.300
64	trans-1,3-Dichloropropene	75	13.005	13.005	(0.861)	726396	2.00000	2.007
65	Toluene	91	13.085	13.085	(0.866)	1303685	2.00000	1.890
66	1,1,2-Trichloroethane	83	13.199	13.199	(0.874)	395475	2.00000	1.950
67	~ 2-methyl thiophene	97	13.247	13.247	(0.877)	1115114	2.10000	1.930
68	~ 3-methyl thiophene	97	13.452	13.452	(0.891)	1125119	2.08000	1.972
69	2-Hexanone	58	13.652	13.652	(0.904)	375779	2.00000	2.214
70	Octane	85	13.760	13.760	(0.911)	474904	2.00000	1.939
71	Dibromochloromethane	129	13.900	13.900	(0.920)	889499	2.00000	1.979
72	1,2-Dibromoethane	107	14.186	14.186	(0.939)	695621	2.00000	1.823
73	Tetrachloroethene	129	14.234	14.234	(0.942)	510538	2.00000	1.927
75	~ 2,3-dimethylheptane	43	15.135	15.135	(1.002)	1555002	2.08000	2.512
74	Chlorobenzene	112	15.151	15.151	(1.003)	998295	2.00000	1.814
76	Ethylbenzene	91	15.442	15.442	(1.022)	1754681	2.00000	2.017
77	~ 2-ethyl thiophene	97	15.550	15.550	(1.030)	1410710	2.06000	2.037
78	m&p-Xylene	91	15.604	15.604	(1.033)	2723275	4.00000	4.022
79	Nonane	57	16.014	16.014	(1.060)	1012539	2.00000	2.382
80	Bromoform	173	16.073	16.073	(1.064)	749916	2.00000	1.640
81	Styrene	104	16.089	16.089	(1.065)	941498	2.00000	1.882
82	o-Xylene	91	16.138	16.138	(1.069)	1391010	2.00000	1.970
84	1,1,2,2-Tetrachloroethane	83	16.504	16.504	(1.093)	900705	2.00000	1.904
85	1,2,3-Trichloropropane	110	16.661	16.661	(1.103)	298249	2.00000	1.903
86	Cumene	105	16.731	16.731	(1.108)	1811718	2.00000	1.785
87	n-Propylbenzene	120	17.286	17.286	(1.145)	471582	2.00000	1.794
88	2-chlorotoluene	126	17.335	17.335	(1.148)	450065	2.00000	1.782
89	4-Ethyltoluene	105	17.448	17.448	(1.155)	1751229	2.00000	1.812
90	1,3,5-Trimethylbenzene	120	17.529	17.529	(1.161)	806168	2.00000	1.808
91	Alpha-Methylstyrene	118	17.788	17.788	(1.178)	659031	2.00000	1.695
92	Decane	57	17.820	17.820	(1.180)	857633	2.00000	1.957
93	tert-butylbenzene	119	17.971	17.971	(1.190)	1514488	2.00000	1.790
94	1,2,4-Trimethylbenzene	105	17.987	17.987	(1.191)	1408124	2.00000	1.782
95	sec-butylbenzene	105	18.257	18.257	(1.209)	1974195	2.00000	1.769
96	1,3-Dichlorobenzene	146	18.273	18.273	(1.210)	916026	2.00000	1.699
97	Benzyl Chloride	91	18.370	18.370	(1.216)	1318135	2.00000	1.864
98	1,4-Dichlorobenzene	146	18.370	18.370	(1.216)	906665	2.00000	1.710
99	p-Cymene	119	18.429	18.429	(1.220)	1570221	2.00000	1.692
100	~ 1,2,3- Trimethylbenzene	105	18.483	18.483	(1.224)	1285542	2.08000	1.965
101	~ n-butylcyclohexane	83	18.516	18.516	(1.226)	1195547	2.06000	2.085
102	~ Indane	117	18.737	18.737	(1.241)	1317458	2.06000	1.907
103	1,2-Dichlorobenzene	146	18.747	18.747	(1.241)	830842	2.00000	1.646
104	n-butylbenzene	91	18.882	18.882	(1.250)	1416307	2.00000	1.823
105	~ Indene	116	18.882	18.882	(1.250)	948024	2.10000	1.842
106	Undecane	57	19.195	19.195	(1.271)	635795	2.00000	2.018
107	~ 1,2-dimethyl-4-ethylenzene	119	19.271	19.271	(1.276)	1227593	2.06000	1.793
108	~ 1,2,4,5-tetramethylbenzene	119	19.664	19.664	(1.302)	1055813	2.06000	1.800
109	~ 1,2,3,5-tetramethylbenzene	119	19.718	19.718	(1.306)	781148	2.10000	1.753

Data File: /var/chem/gcms/mg.i/G031312.b/gccvc13a.d
Report Date: 13-Mar-2012 14:45

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.117	20.117	(1.332)	823524	2.04000	1.802
111 Dodecane	57	20.268	20.268	(1.342)	464769	2.00000	2.030
112 1,2,4-Trichlorobenzene	180	20.468	20.468	(1.355)	363777	2.00000	1.418
113 Napthalene	128	20.608	20.608	(1.365)	814650	2.00000	1.548
114 ~ benzo(b) thiophene	134	20.710	20.710	(1.371)	606877	2.04000	1.765
115 Hexachlorobutadiene	225	20.818	20.818	(1.378)	464153	2.00000	1.455
116 1,2,3-trichlorobenzene	180	20.888	20.888	(1.383)	276951	2.00000	1.334
117 ~ 2-Methylnaphthalene	142	21.729	21.729	(1.439)	379149	12.5000	8.683
118 ~ 1-Methylnaphthalene	142	21.929	21.929	(1.452)	303266	12.5000	8.190

Data File: /var/chem/gcms/mg.i/G031312.b/gccvc13a.d
Date : 13-MAR-2012 13:06
Client ID: CCV/LCS
Instrument: mg.i
Sample Info: CCV,,2,6,,CCV/LCS
Purge Volume: 500.0
Operator: 7126
Column phase: Rtx-5
Column diameter: 0.32



Raw QC Data

New York State D.E.C.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2C130000 - 128B **Work Order #** MRD7A1AA **Matrix.....:** AIR

	03/09/2012	**Date Received..:**	03/10/2012
Prep Date.....:	03/13/2012	**Analysis Date...**	03/13/2012
Prep Batch #.....:	2073128		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	ND	0.32	ND	0.94
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	ND	0.080	ND	0.26
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	ND	0.040	ND	0.25
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	ND	0.20	ND	0.41
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	ND	0.080	ND	0.40
Ethanol	ND	0.80	ND	1.5
Ethylbenzene	ND	0.080	ND	0.35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	ND	0.20	ND	0.70

New York State D.E.C.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2C130000 - 128B **Work Order #** MRD7A1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Hexachlorobutadiene	ND	0.080	ND	0.85
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	ND	0.080	ND	0.30
m-Xylene & p-Xylene	ND	0.080	ND	0.35
o-Xylene	ND	0.080	ND	0.35
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	ND	0.080	ND	0.45
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/gblkc13.d
Report Date: 13-Mar-2012 20:40

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/gblkc13.d
Lab Smp Id: MRD7A1AA Client Smp ID: BLANK
Inj Date : 13-MAR-2012 14:21
Operator : 7126 Inst ID: mg.i
Smp Info : MRD7A1AA,,3,,,BLANK
Misc Info : G031312,TO15,1-all.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 13-Mar-2012 18:04 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 18 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

3/13/12

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.178	8.168	(1.000)	545799	4.00000	4.000
* 2 1,4-Difluorobenzene	114	10.292	10.281	(1.000)	2679755	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.108	15.102	(1.000)	2504587	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	16.779	16.779	(1.111)	1991831	4.39188	4.392
69 2-Hexanone	58	13.716	13.652	(0.908)	5960	0.03968	0.03968

3/13/12

Data File: /var/chem/gcms/mg.i/G031312.b/gblkc13.d
Report Date: 13-Mar-2012 20:40

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: gblkc13.d
Lab Smp Id: MRD7A1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,1-all.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: BLANK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	545799	-2.74
2 1,4-Difluorobenze	2909107	1730919	4087295	2679755	-7.88
3 Chlorobenzene-d5	2830968	1684426	3977510	2504587	-11.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.18	0.13
2 1,4-Difluorobenze	10.28	9.95	10.61	10.29	0.11
3 Chlorobenzene-d5	15.10	14.77	15.43	15.11	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mg.i/G031312.b/gblkc13.d
Report Date: 13-Mar-2012 20:40

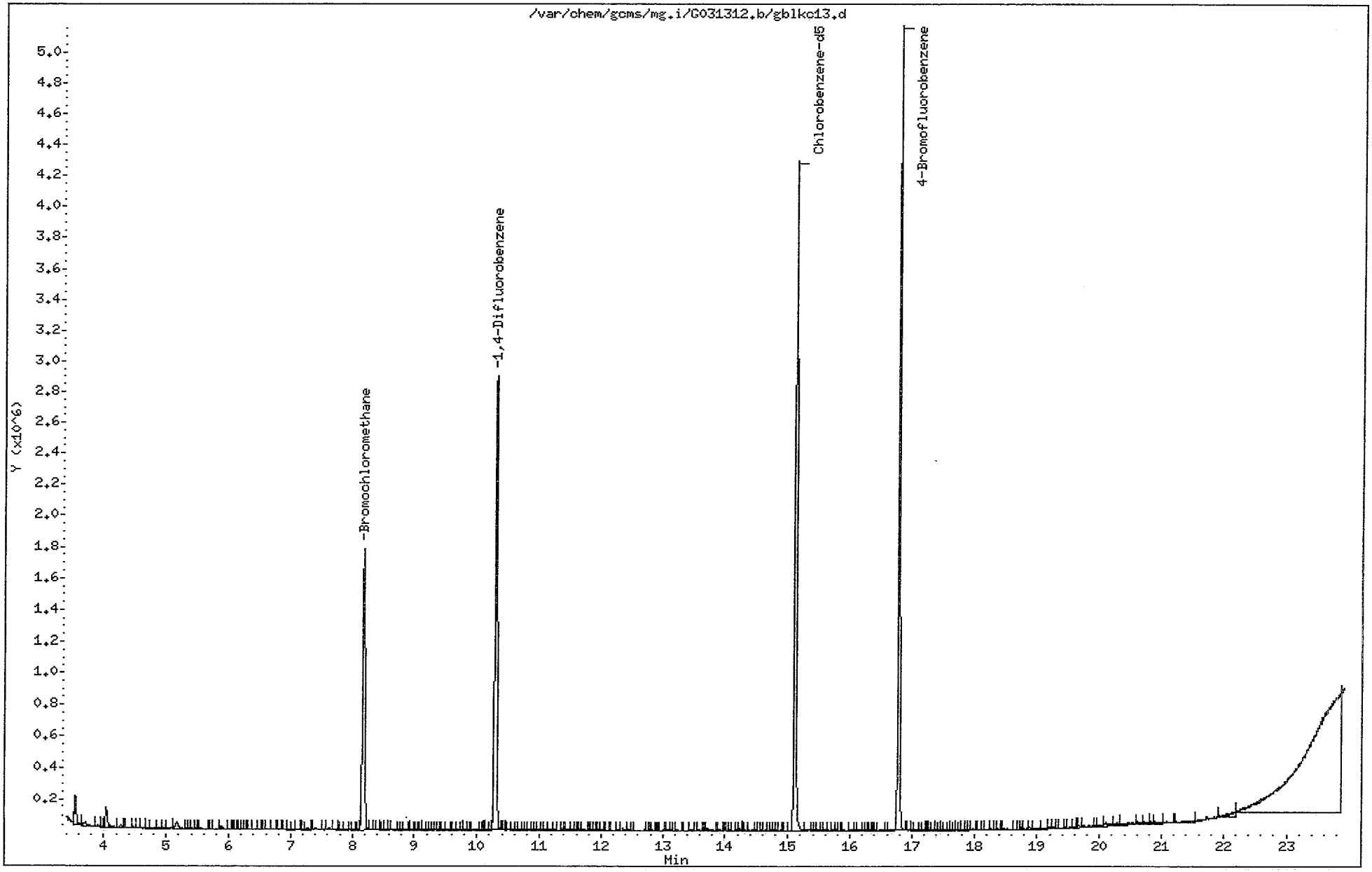
TestAmerica Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: MRD7A1AA
Level: LOW
Data Type: MS DATA
SpikeList File: allnew.spk
Sublist File: nysdec.sub
Client SDG: G031312
Fraction: OTHER
Client Smp ID: BLANK
Operator: 7126
SampleType: BLANK
Quant Type: ISTD
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,1-all.sub,,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.392	109.80	70-130

Data File: /var/chem/gcms/mg.i/G031312.b/gblkc13.d
Date : 13-MAR-2012 14:21
Client ID: BLANK
Instrument: mg.i
Sample Info: MRD7A1AA,,3,,,BLANK
Purge Volume: 500.0
Operator: 7126
Column phase: Rtx-5
Column diameter: 0.32



New York State D.E.C.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2C130000 - 128C **Work Order #** MRD7A1AC **Matrix.....:** AIR

	03/09/2012	**Date Received..:**	03/10/2012
Prep Date.....:	03/13/2012	**Analysis Date...**	03/13/2012
Prep Batch #.....:	2073128		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
1,1,1-Trichloroethane	5.00	5.82	27	31.7	116	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.76	34	32.7	95	70 - 130
1,1,2-Trichlorotrifluoroethane	5.00	4.73	38	36.3	95	70 - 130
1,1,2-Trichloroethane	5.00	4.88	27	26.6	98	70 - 130
1,1-Dichloroethane	5.00	5.94	20	24.0	119	70 - 130
1,1-Dichloroethene	5.00	5.16	20	20.5	103	70 - 130
1,2,4-Trichlorobenzene	5.00	3.54	37	26.3	71	60 - 140
1,2,4-Trimethylbenzene	5.00	4.46	25	21.9	89	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.56	38	35.0	91	70 - 130
1,2-Dichlorobenzene	5.00	4.11	30	24.7	82	70 - 130
1,2-Dichloroethane	5.00	5.87	20	23.8	117	70 - 130
1,2-Dichloropropane	5.00	5.66	23	26.1	113	70 - 130
1,3,5-Trimethylbenzene	5.00	4.52	25	22.2	90	70 - 130
1,4-Dichlorobenzene	5.00	4.27	30	25.7	85	70 - 130
1,4-Dioxane	5.00	4.31	18	15.5	86	60 - 140
2-Butanone (MEK)	5.00	4.51	15	13.3	90	60 - 140
1,3-Dichlorobenzene	5.00	4.25	30	25.5	85	70 - 130
2,2,4-Trimethylpentane	5.00	6.04	23	28.2	121	70 - 130
Benzene	5.00	5.30	16	16.9	106	70 - 130
Benzyl chloride	5.00	4.66	26	24.1	93	70 - 130
Bromodichloromethane	5.00	5.41	34	36.3	108	70 - 130
Bromoform	5.00	4.10	52	42.4	82	60 - 140
Bromomethane	5.00	4.88	19	18.9	98	70 - 130
Carbon tetrachloride	5.00	5.05	31	31.8	101	70 - 130
Chlorobenzene	5.00	4.53	23	20.9	91	70 - 130
Chloroethane	5.00	5.05	13	13.3	101	70 - 130
Chloroform	5.00	5.57	24	27.2	111	70 - 130
Cyclohexane	5.00	5.16	17	17.7	103	70 - 130
Chloromethane	5.00	5.91	10	12.2	118	60 - 140
cis-1,2-Dichloroethene	5.00	5.43	20	21.5	109	70 - 130
cis-1,3-Dichloropropene	5.00	5.25	23	23.8	105	70 - 130
Dibromochloromethane	5.00	4.95	43	42.2	99	70 - 130
Dichlorodifluoromethane	5.00	6.27	25	31.0	125	60 - 140
Ethanol	24.6	25.6	46	48.3	104	20 - 180
Ethylbenzene	5.00	5.04	22	21.9	101	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	5.14	35	35.9	103	60 - 140

New York State D.E.C.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2C130000 - 128C **Work Order #** MRD7A1AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
n-Hexane	5.00	5.82	18	20.5	116	70 - 130
Hexachlorobutadiene	5.00	3.64	53	38.8	73	60 - 140
4-Methyl-2-pentanone (MIBK)	5.00	5.75	20	23.6	115	60 - 140
Methyl tert-butyl ether	5.00	4.96	18	17.9	99	60 - 140
Methylene chloride	5.00	5.01	17	17.4	100	70 - 130
Styrene	5.00	4.70	21	20.0	94	70 - 130
tert-Butyl alcohol	5.00	5.61	15	17.0	112	60 - 140
Tetrachloroethene	5.00	4.82	34	32.7	96	70 - 130
Toluene	5.00	4.73	19	17.8	95	70 - 130
m-Xylene & p-Xylene	10.0	10.1	43	43.7	101	70 - 130
o-Xylene	5.00	4.93	22	21.4	99	70 - 130
trans-1,2-Dichloroethene	5.00	5.03	20	19.9	101	70 - 130
trans-1,3-Dichloropropene	5.00	5.02	23	22.8	100	70 - 130
Trichloroethene	5.00	4.76	27	25.6	95	70 - 130
Trichlorofluoromethane	5.00	4.63	28	26.0	93	60 - 140
Vinyl chloride	5.00	5.55	13	14.2	111	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	110	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mg.i/G031312.b/glcsc13a.d
Report Date: 13-Mar-2012 20:40

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mg.i/G031312.b/glcsc13a.d
Lab Smp Id: MRD7A1AC Client Smp ID: CCV/LCS
Inj Date : 13-MAR-2012 13:06
Operator : 7126 Inst ID: mg.i
Smp Info : MRD7A1AC,,2,6,,CCV/LCS
Misc Info : G031312,TO15,all.sub,,,,
Comment :
Method : /var/chem/gcms/mg.i/G031312.b/TO15.m
Meth Date : 13-Mar-2012 18:04 barlozha Quant Type: ISTD
Cal Date : 16-DEC-2011 17:10 Cal File: gicl166.d
Als bottle: 15 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.168	8.168	(1.000)	561154	4.00000	4.000
*	2 1,4-Difluorobenzene	114	10.281	10.281	(1.000)	2909107	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.102	15.102	(1.000)	2830968	4.00000	4.000
$	4 4-Bromofluorobenzene	95	16.779	16.779	(1.111)	2255480	4.39986	11.00
M	83 Xylene (total)	100				4114285	5.99294	14.98
	5 Chlorodifluoromethane	67	3.676	3.676	(0.450)	137241	2.35461	5.886
	6 Propene	41	3.687	3.687	(0.451)	370271	2.54147	6.354
	7 Dichlorodifluoromethane	85	3.724	3.724	(0.456)	1350792	2.50892	6.272
	8 Chloromethane	52	3.875	3.875	(0.474)	123023	2.36295	5.907
	9 1,2-Dichlorotetrafluoroethane	135	3.881	3.881	(0.475)	708002	2.05429	5.136
	11 ~ acetaldehyde	44	4.016	4.016	(0.492)	589643	24.3766	60.94(R)
	12 Vinyl Chloride	62	4.021	4.021	(0.492)	409883	2.22083	5.552
	13 n-Butane	43	4.086	4.086	(0.500)	677382	2.38254	5.956
	14 1,3-Butadiene	54	4.091	4.091	(0.501)	336987	2.51015	6.275
	15 Bromomethane	94	4.361	4.361	(0.534)	332507	1.95094	4.877
	16 Chloroethane	64	4.474	4.474	(0.548)	190051	2.01829	5.046

Data File: /var/chem/gcms/mg.i/G031312.b/glcsc13a.d
Report Date: 13-Mar-2012 20:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
17	~ ethanol	31	4.609	4.609	(0.564)	533919	10.2508	25.63
18	Vinyl Bromide	106	4.722	4.722	(0.578)	304938	1.81978	4.549
19	2-methyl butane	43	4.749	4.749	(0.581)	434848	2.24102	5.602
20	Trichlorofluoromethane	101	4.943	4.943	(0.605)	1001733	1.85374	4.634
21	Acrolein	56	4.992	4.992	(0.611)	80132	1.50982	3.774
22	Acetonitrile	40	5.072	5.072	(0.621)	113701	2.19166	5.479
25	Pentane	72	5.116	5.116	(0.626)	58340	1.71688	4.292
23	Acetone	58	5.121	5.121	(0.627)	119716	1.85685	4.642
24	Isopropyl alcohol	45	5.213	5.213	(0.638)	347899	1.92097	4.802
26	Ethyl Ether	31	5.310	5.310	(0.650)	413084	2.06407	5.160
27	1,1-Dichloroethene	96	5.547	5.547	(0.679)	329993	2.06407	5.160
29	Acrylonitrile	53	5.698	5.698	(0.698)	228215	1.93719	4.843
30	1,1,2-Trichlorotrifluoroethane	101	5.693	5.693	(0.697)	653228	1.89305	4.733
28	tert-butanol	59	5.736	5.736	(0.702)	495701	2.24394	5.610
31	Methylene Chloride	84	5.870	5.870	(0.719)	303806	2.00225	5.006
32	3-Chloropropene	39	5.870	5.870	(0.719)	322354	1.85889	4.647
33	Carbon Disulfide	76	5.978	5.978	(0.732)	1104688	1.98942	4.974
35	~ 2-Methyl Pentane	43	6.539	6.539	(0.801)	1035113	2.41489	6.037
34	trans-1,2-Dichloroethene	96	6.561	6.561	(0.803)	391361	2.01072	5.027
36	Methyl-t-Butyl Ether	73	6.739	6.739	(0.825)	989772	1.98252	4.956
37	1,1-Dichloroethane	63	6.954	6.954	(0.851)	812855	2.37516	5.938
38	Vinyl Acetate	43	7.084	7.084	(0.867)	979833	2.31242	5.781
39	2-Butanone	72	7.553	7.553	(0.925)	137137	1.80375	4.509
40	Hexane	56	7.418	7.418	(0.908)	378229	2.32795	5.820
41	cis 1,2-Dichloroethene	96	7.866	7.866	(0.963)	400345	2.17277	5.432
42	Ethyl acetate	43	8.108	8.108	(0.993)	732124	2.09434	5.236
43	Chloroform	83	8.178	8.178	(1.001)	907483	2.22875	5.572
44	Tetrahydrofuran	42	8.669	8.669	(1.061)	420682	2.32531	5.813
45	1,1,1-Trichloroethane	97	9.111	9.111	(1.116)	1042415	2.32585	5.815
46	1,2-Dichloroethane	62	9.251	9.251	(0.900)	675360	2.34875	5.872
49	Cyclohexane	69	9.645	9.645	(0.938)	213797	2.06211	5.155
48	Benzene	78	9.699	9.699	(0.943)	1159615	2.12055	5.301
50	Carbon Tetrachloride	117	9.710	9.710	(0.944)	951254	2.01931	5.048
51	~ 2,3-dimethylpentane	71	9.758	9.758	(0.949)	279230	2.10232	5.256
47	1-Butanol	31	9.850	9.850	(0.958)	121315	2.52443	6.311
52	~ Thiophene	84	9.985	9.985	(0.971)	660693	2.10287	5.257
53	2,2,4-trimethylpentane	57	10.411	10.411	(1.013)	2197004	2.41579	6.039
54	Heptane	71	10.810	10.810	(1.051)	443816	2.03753	5.094
55	1,2-Dichloropropane	63	10.955	10.955	(1.066)	442838	2.26210	5.655
56	Trichloroethene	130	10.982	10.982	(1.068)	501391	1.90204	4.755
180	~ 2-nitropropane	43	11.031	11.031	(1.073)	706225	1.77498	4.437
57	Dibromomethane	93	11.096	11.096	(1.079)	464429	1.98860	4.972
58	Bromodichloromethane	83	11.247	11.247	(1.094)	1003784	2.16386	5.410
60	Methyl Methacrylate	41	11.403	11.403	(1.109)	456176	2.01611	5.040
59	1,4-dioxane	88	11.381	11.381	(1.107)	120285	1.72538	4.313
61	~ methyl cyclohexane	83	11.716	11.716	(1.139)	736096	2.15534	5.388
63	cis-1,3-Dichloropropene	75	12.277	12.277	(1.194)	682738	2.09962	5.249

Data File: /var/chem/gcms/mg.i/G031312.b/glcsc13a.d
Report Date: 13-Mar-2012 20:40

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
62	4-Methyl-2-pentanone	43	12.282	12.282	(1.195)	770111	2.29999	5.750
64	trans-1,3-Dichloropropene	75	13.005	13.005	(0.861)	726396	2.00739	5.018
65	Toluene	91	13.085	13.085	(0.866)	1303685	1.89031	4.726
66	1,1,2-Trichloroethane	83	13.199	13.199	(0.874)	395475	1.95006	4.875
67	~ 2-methyl thiophene	97	13.247	13.247	(0.877)	1115114	1.92965	4.824
68	~ 3-methyl thiophene	97	13.452	13.452	(0.891)	1125119	1.97247	4.931
69	2-Hexanone	58	13.652	13.652	(0.904)	375779	2.21357	5.534
70	Octane	85	13.760	13.760	(0.911)	474904	1.93946	4.849
71	Dibromochloromethane	129	13.900	13.900	(0.920)	889499	1.97930	4.948
72	1,2-Dibromoethane	107	14.186	14.186	(0.939)	695621	1.82290	4.557
73	Tetrachloroethene	129	14.234	14.234	(0.942)	510538	1.92716	4.818
75	~ 2,3-dimethylheptane	43	15.135	15.135	(1.002)	1555002	2.51256	6.281
74	Chlorobenzene	112	15.151	15.151	(1.003)	998295	1.81380	4.534
76	Ethylbenzene	91	15.442	15.442	(1.022)	1754681	2.01661	5.042
77	~ 2-ethyl thiophene	97	15.550	15.550	(1.030)	1410710	2.03719	5.093
78	m&p-Xylene	91	15.604	15.604	(1.033)	2723275	4.02245	10.06
79	Nonane	57	16.014	16.014	(1.060)	1012539	2.38193	5.955
80	Bromoform	173	16.073	16.073	(1.064)	749916	1.63984	4.100
81	Styrene	104	16.089	16.089	(1.065)	941498	1.88194	4.705
82	o-Xylene	91	16.138	16.138	(1.069)	1391010	1.97049	4.926
84	1,1,2,2-Tetrachloroethane	83	16.504	16.504	(1.093)	900705	1.90374	4.759
85	1,2,3-Trichloropropane	110	16.661	16.661	(1.103)	298249	1.90265	4.757
86	Cumene	105	16.731	16.731	(1.108)	1811718	1.78526	4.463
87	n-Propylbenzene	120	17.286	17.286	(1.145)	471582	1.79457	4.486
88	2-chlorotoluene	126	17.335	17.335	(1.148)	450065	1.78163	4.454
89	4-Ethyltoluene	105	17.448	17.448	(1.155)	1751229	1.81204	4.530
90	1,3,5-Trimethylbenzene	120	17.529	17.529	(1.161)	806168	1.80784	4.520
91	Alpha-Methylstyrene	118	17.788	17.788	(1.178)	659031	1.69490	4.237
92	Decane	57	17.820	17.820	(1.180)	857633	1.95727	4.893
93	tert-butylbenzene	119	17.971	17.971	(1.190)	1514488	1.79031	4.476
94	1,2,4-Trimethylbenzene	105	17.987	17.987	(1.191)	1408124	1.78247	4.456
95	sec-butylbenzene	105	18.257	18.257	(1.209)	1974195	1.76941	4.424
96	1,3-Dichlorobenzene	146	18.273	18.273	(1.210)	916026	1.69900	4.247
97	Benzyl Chloride	91	18.370	18.370	(1.216)	1318135	1.86382	4.660
98	1,4-Dichlorobenzene	146	18.370	18.370	(1.216)	906665	1.70981	4.274
99	p-Cymene	119	18.429	18.429	(1.220)	1570221	1.69250	4.231
100	~ 1,2,3- Trimethylbenzene	105	18.483	18.483	(1.224)	1285542	1.96538	4.913
101	~ n-butylcyclohexane	83	18.516	18.516	(1.226)	1195547	2.08486	5.212
102	~ Indane	117	18.737	18.737	(1.241)	1317458	1.90705	4.768
103	1,2-Dichlorobenzene	146	18.747	18.747	(1.241)	830842	1.64579	4.114
104	n-butylbenzene	91	18.882	18.882	(1.250)	1416307	1.82293	4.557
105	~ Indene	116	18.882	18.882	(1.250)	948024	1.84203	4.605
106	Undecane	57	19.195	19.195	(1.271)	635795	2.01810	5.045
107	~ 1,2-dimethyl-4-ethylenzene	119	19.271	19.271	(1.276)	1227593	1.79343	4.484
108	~ 1,2,4,5-tetramethylbenzene	119	19.664	19.664	(1.302)	1055813	1.80002	4.500
109	~ 1,2,3,5-tetramethylbenzene	119	19.718	19.718	(1.306)	781148	1.75289	4.382
110	~ 1,2,3,4-tetramethylbenzene	119	20.117	20.117	(1.332)	823524	1.80238	4.506

Data File: /var/chem/gcms/mg.i/G031312.b/glcsc13a.d
Report Date: 13-Mar-2012 20:40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
111 Dodecane	57	20.268	20.268	(1.342)	464769	2.03009	5.075
112 1,2,4-Trichlorobenzene	180	20.468	20.468	(1.355)	363777	1.41785	3.545
113 Napthalene	128	20.608	20.608	(1.365)	814650	1.54821	3.870
114 ~ benzo(b) thiophene	134	20.710	20.710	(1.371)	606877	1.76502	4.412
115 Hexachlorobutadiene	225	20.818	20.818	(1.378)	464153	1.45462	3.636
116 1,2,3-trichlorobenzene	180	20.888	20.888	(1.383)	276951	1.33374	3.334
117 ~ 2-Methylnaphthalene	142	21.729	21.729	(1.439)	379149	8.68288	21.71(R)
118 ~ 1-Methylnaphthalene	142	21.929	21.929	(1.452)	303266	8.19012	20.48(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mg.i/G031312.b/glcsc13a.d
Report Date: 13-Mar-2012 20:40

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mg.i
Lab File ID: glcsc13a.d
Lab Smp Id: MRD7A1AC
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,all.sub,,,,

Calibration Date: 13-MAR-2012
Calibration Time: 13:06
Client Smp ID: CCV/LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	561154	333887	788421	561154	0.00
2 1,4-Difluorobenze	2909107	1730919	4087295	2909107	0.00
3 Chlorobenzene-d5	2830968	1684426	3977510	2830968	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.17	7.84	8.50	8.17	0.00
2 1,4-Difluorobenze	10.28	9.95	10.61	10.28	0.00
3 Chlorobenzene-d5	15.10	14.77	15.43	15.10	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mg.i/G031312.b/glcsc13a.d
Report Date: 13-Mar-2012 20:40

TestAmerica Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: MRD7A1AC
Level: LOW
Data Type: MS DATA
SpikeList File: allnew.spk
Sublist File: all.sub
Client SDG: G031312
Fraction: OTHER
Client Smp ID: CCV/LCS
Operator: 7126
SampleType: LCS
Quant Type: ISTD
Method File: /var/chem/gcms/mg.i/G031312.b/TO15.m
Misc Info: G031312,TO15,all.sub,,,,

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
5 Chlorodifluorometh	5.000	5.886	117.73	60-140
6 Propene	5.000	6.354	127.07	60-140
7 Dichlorodifluorome	5.000	6.272	125.45	60-140
8 Chloromethane	5.000	5.907	118.15	60-140
9 1,2-Dichlorotetraf	5.000	5.136	102.71	60-140
10 Methanol	5.000	2.315	46.30*	60-140
11 ~ acetaldehyde	23.80	60.94	256.06*	70-130
12 Vinyl Chloride	5.000	5.552	111.04	70-130
13 n-Butane	5.000	5.956	119.13	60-140
14 1,3-Butadiene	5.000	6.275	125.51	60-140
15 Bromomethane	5.000	4.877	97.55	70-130
16 Chloroethane	5.000	5.046	100.91	70-130
17 ~ ethanol	24.55	25.63	104.39	70-130
18 Vinyl Bromide	5.000	4.549	90.99	60-140
19 2-methyl butane	5.000	5.602	112.05	70-130
20 Trichlorofluoromet	5.000	4.634	92.69	60-140
21 Acrolein	5.000	3.774	75.49	60-140
22 Acetonitrile	5.000	5.479	109.58	60-140
23 Acetone	5.000	4.642	92.84	60-140
25 Pentane	5.000	4.292	85.84	70-130
24 Isopropyl alcohol	5.000	4.802	96.05	60-140
26 Ethyl Ether	5.000	5.160	103.20	60-140
27 1,1-Dichloroethene	5.000	5.160	103.20	70-130
28 tert-butanol	5.000	5.610	112.20	60-140
29 Acrylonitrile	5.000	4.843	96.86	60-140
30 1,1,2-Trichlorotri	5.000	4.733	94.65	70-130
31 Methylene Chloride	5.000	5.006	100.11	70-130
32 3-Chloropropene	5.000	4.647	92.94	60-140
33 Carbon Disulfide	5.000	4.974	99.47	70-130
34 trans-1,2-Dichloro	5.000	5.027	100.54	70-130
35 ~ 2-Methyl Pentane	5.000	6.037	120.74	70-130
36 Methyl-t-Butyl Eth	5.000	4.956	99.13	60-140
37 1,1-Dichloroethane	5.000	5.938	118.76	70-130

Data File: /var/chem/gcms/mg.i/G031312.b/glcsc13a.d
Report Date: 13-Mar-2012 20:40

	SPIKE	COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
	38	Vinyl Acetate	5.000	5.781	115.62	60-140
	39	2-Butanone	5.000	4.509	90.19	60-140
	40	Hexane	5.000	5.820	116.40	70-130
	41	cis 1,2-Dichloroet	5.000	5.432	108.64	70-130
	42	Ethyl acetate	5.000	5.236	104.72	60-140
	43	Chloroform	5.000	5.572	111.44	70-130
	44	Tetrahydrofuran	5.000	5.813	116.27	60-140
	45	1,1,1-Trichloroeth	5.000	5.815	116.29	70-130
	46	1,2-Dichloroethane	5.000	5.872	117.44	70-130
	47	1-Butanol	5.000	6.311	126.22	60-140
	48	Benzene	5.000	5.301	106.03	70-130
	49	Cyclohexane	5.000	5.155	103.11	70-130
	50	Carbon Tetrachlori	5.000	5.048	100.97	70-130
	51	~ 2,3-dimethylpent	5.000	5.256	105.12	70-130
	52	~ Thiophene	5.000	5.257	105.14	70-130
	53	2,2,4-trimethylpen	5.000	6.039	120.79	70-130
	54	Heptane	5.000	5.094	101.88	70-130
	55	1,2-Dichloropropan	5.000	5.655	113.10	70-130
	56	Trichloroethene	5.000	4.755	95.10	70-130
	57	Dibromomethane	5.000	4.972	99.43	70-130
	58	Bromodichlorometha	5.000	5.410	108.19	70-130
	59	1,4-dioxane	5.000	4.313	86.27	60-140
	60	Methyl Methacrylat	5.000	5.040	100.81	60-140
	61	~ methyl cyclohexa	5.000	5.388	107.77	70-130
	62	4-Methyl-2-pentano	5.000	5.750	115.00	60-140
	63	cis-1,3-Dichloropr	5.000	5.249	104.98	70-130
	64	trans-1,3-Dichloro	5.000	5.018	100.37	70-130
	65	Toluene	5.000	4.726	94.52	70-130
	66	1,1,2-Trichloroeth	5.000	4.875	97.50	70-130
	67	~ 2-methyl thiophe	5.000	4.824	96.48	70-130
	68	~ 3-methyl thiophe	5.000	4.931	98.62	70-130
	69	2-Hexanone	5.000	5.534	110.68	60-140
	70	Octane	5.000	4.849	96.97	70-130
	71	Dibromochlorometha	5.000	4.948	98.97	70-130
	72	1,2-Dibromoethane	5.000	4.557	91.15	70-130
	73	Tetrachloroethene	5.000	4.818	96.36	70-130
	74	Chlorobenzene	5.000	4.534	90.69	70-130
	75	~ 2,3-dimethylhept	5.000	6.281	125.63	70-130
	76	Ethylbenzene	5.000	5.042	100.83	70-130
	77	~ 2-ethyl thiophen	5.000	5.093	101.86	70-130
	78	m&p-Xylene	10.00	10.06	100.56	70-130
M	83	Xylene (total)	15.00	14.98	99.88	70-130
	79	Nonane	5.000	5.955	119.10	60-140
	80	Bromoform	5.000	4.100	81.99	60-140
	81	Styrene	5.000	4.705	94.10	70-130
	82	o-Xylene	5.000	4.926	98.52	70-130
	84	1,1,2,2-Tetrachlor	5.000	4.759	95.19	70-130

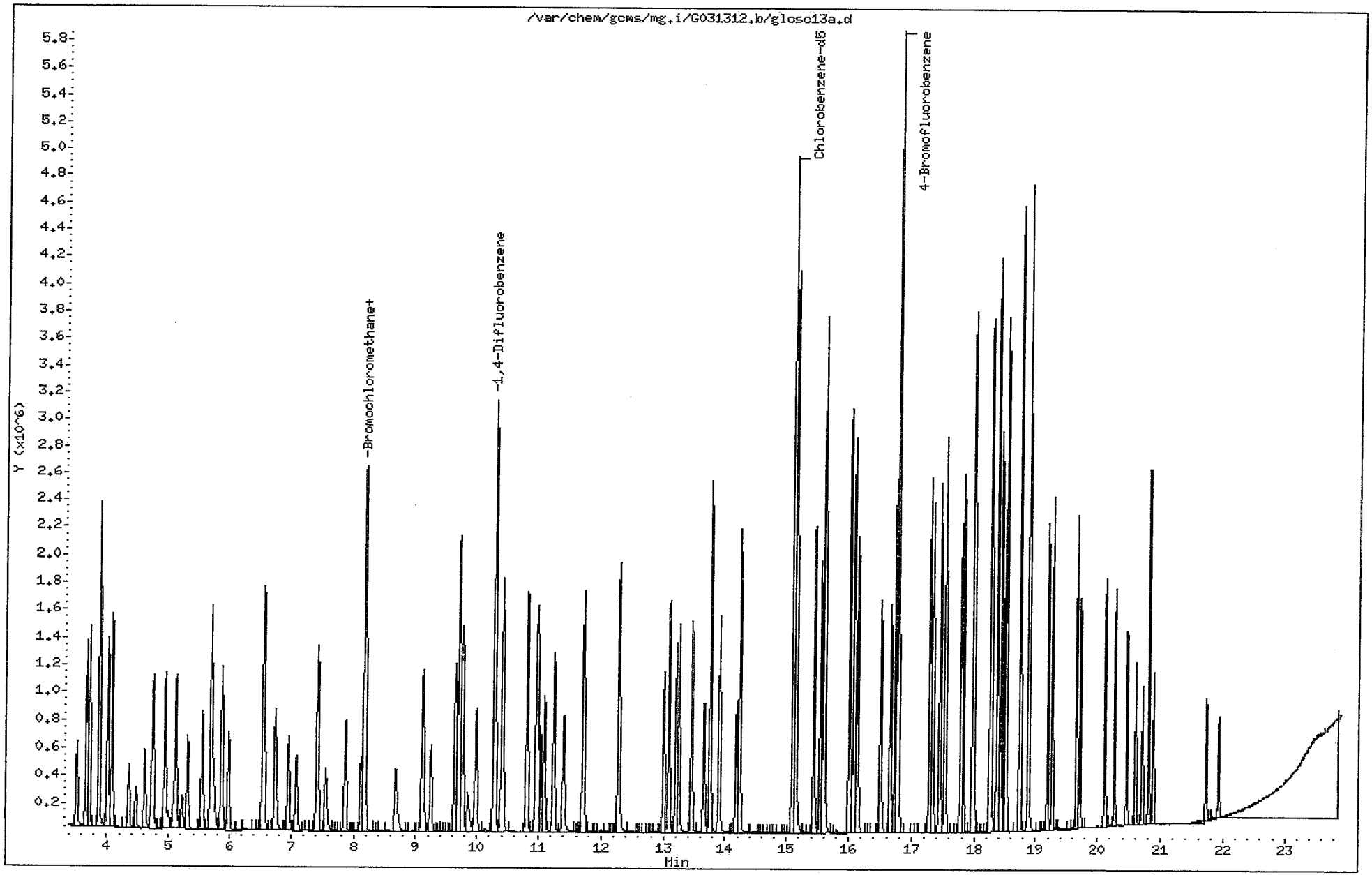
Data File: /var/chem/gcms/mg.i/G031312.b/glcsc13a.d
Report Date: 13-Mar-2012 20:40

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
85 1,2,3-Trichloropro	5.000	4.757	95.13	60-140
86 Cumene	5.000	4.463	89.26	70-130
87 n-Propylbenzene	5.000	4.486	89.73	70-130
88 2-chlorotoluene	5.000	4.454	89.08	70-130
89 4-Ethyltoluene	5.000	4.530	90.60	70-130
90 1,3,5-Trimethylben	5.000	4.520	90.39	70-130
91 Alpha-Methylstyren	5.000	4.237	84.75	60-140
92 Decane	5.000	4.893	97.86	60-140
93 tert-butylbenzene	5.000	4.476	89.52	70-130
94 1,2,4-Trimethylben	5.000	4.456	89.12	70-130
95 sec-butylbenzene	5.000	4.424	88.47	70-130
96 1,3-Dichlorobenzen	5.000	4.247	84.95	70-130
97 Benzyl Chloride	5.000	4.660	93.19	70-130
98 1,4-Dichlorobenzen	5.000	4.274	85.49	70-130
99 p-Cymene	5.000	4.231	84.62	70-130
100 ~ 1,2,3- Trimethyl	5.000	4.913	98.27	70-130
101 ~ n-butylcyclohexa	5.000	5.212	104.24	70-130
102 ~ Indane	5.000	4.768	95.35	70-130
103 1,2-Dichlorobenzen	5.000	4.114	82.29	70-130
104 n-butylbenzene	5.000	4.557	91.15	60-140
105 ~ Indene	5.000	4.605	92.10	70-130
106 Undecane	5.000	5.045	100.90	60-140
107 ~ 1,2-dimethyl-4-e	5.000	4.484	89.67	70-130
108 ~ 1,2,4,5-tetramet	5.000	4.500	90.00	70-130
109 ~ 1,2,3,5-tetramet	5.000	4.382	87.64	70-130
110 ~ 1,2,3,4-tetramet	5.000	4.506	90.12	70-130
111 Dodecane	5.000	5.075	101.50	60-140
112 1,2,4-Trichloroben	5.000	3.545	70.89	60-140
113 Napthalene	5.000	3.870	77.41	40-140
114 ~ benzo(b) thiophe	5.000	4.412	88.25	70-130
115 Hexachlorobutadien	5.000	3.636	72.73	60-140
116 1,2,3-trichloroben	5.000	3.334	66.69	40-140
117 ~ 2-Methylnaphthal	31.25	21.71	69.46*	70-130
118 ~ 1-Methylnaphthal	31.25	20.48	65.52*	70-130

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	10.00	11.00	110.00	70-130

Data File: /var/chem/gcms/mg.i/G031312.b/glcsc13a.d
Date : 13-MAR-2012 13:06
Client ID: CCV/LCS
Sample Info: MRD7A1AC,,2,6,,CCV/LCS
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mg.i
Operator: 7126
Column diameter: 0.32



Miscellaneous Data

TestAmerica Knoxville GC/MS Air Data Review / Narrative Checklist LOT/Project # H2C130401

Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 12 & KNOX-MS-0023, Rev 0

Instrument:	MG			
Scanned File:	G121611F	G031312		

Review Items A. Tune / Continuing Calibration	N/A	Yes	No	Why is data reportable?	2nd
1. Were all samples injected within 24 hr of BFB?		✓			✓
2. Has a Continuing Calibration Checklist & run log been completed for each analytical batch **and scanned properly**?		✓			✓
3. Was the correct ICAL used for quantitation?		✓			✓
B. CLIENT SAMPLE AND QC SAMPLE Results	**N/A**	**Yes**	**No**	**Why is data reportable?**	
1. Were all special project requirements met?		✓			✓
2. Were samples received in cans?		✓		□ [Tedlar1] analyzed w/n 72 hours, □ [Tedlar2] X-fer within 72 hours.	✓
3. Can pressure/vac on receipt acceptable?		✓		□ see narrative	✓
4. Were dilution factors/can prep information verified?		✓			✓
5. Have the can number & lab ID been verified between the analysis log & sample prep log?		✓			✓
6. Sample analyses done within analytical holding time (HT)? *If no, list samples:* _____		✓		□ [ht2] Client requested analysis after HT expired. □ Other: _____	✓
7. Default sample volume verified?		✓			✓
8. Are surrogates and internal standards within QC limits? (60-140% R for surr.; 60-140%R from CCAL for IS) *If no, list samples/reason (e.g.,* **sur1***):* Sample / Reason / Sample / Reason		✓		□ [sur7] Obvious matrix effect □ **[sur12] high recovery, no hits.** □ [sur14] entire sample consumed □ **[is1] Per client, reanalysis was not performed *** □ [is2] Reanalysis confirmed a matrix effect.	✓
9. Were all positive results and false negatives on quan report verified to be correct in LIMS?		✓			✓
10. For dilutions, is highest concentration hit ≥ 20% cal range and not above calibration range? *List samples and reason (e.g.,* elev1*):* Sample / Reason / Sample / Reason	✓			□ [elev1] Elevated RL for due to sample matrix interferences. □ [elev3] Elevated RLs for all analytes due to difficult sample matrix. □ [elev4] Elevated RLs based on screening □ [elev5] Elevated RLs for all analytes due to presence of non-target compounds. □ [elev7] Elevated RLs due to sample volume	MS
11. If manual integrations were performed, are they clearly identified, initialed, dated and reason given & alternate hits verified.		✓		Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	✓
C. Preparation QC					
1. System blank run every 24 hours prior to samples?		✓			✓
2. System blank surrogate recoveries within QC limits (60-140% R) ?		✓		□ **[mb1] All sample surrogates OK and there is no analyte >RL in samples associated with blank.***	✓
3. Are all analytes present in the system blank < RL? (1/2 RL for DoD). *If no, list blank ID:* _____		✓		□ **[mb3] No analyte > RL in associated samples.*** □ **[mb4] Sample results > 10x higher than blank.**	✓
4. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for methanol and n-butanol) *If no, list DUP ID:*		✓			✓
5. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). Note: Ohio does not allow for ME.		✓		□ [lcs6] LCS analyte(s) flagged as being outside control limits but within marginal limits □ [lcs5] LCS outside marginal exceedences high, but analytes were not detected LCS ID: _____	✓
D. Other					
1. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, analysis dates correct.)		✓		#7 Do Not Report per client.	✓
2. Are all nonconformances documented appropriately and copy included with deliverable?	✓				MS
4. Was a narrative prepared and all deviations noted?		✓		□ [1pt6]; □ [1pt11]; □ [1ptsur] □ [Extras] ethanol	✓
5. TO14A Autotext included in narrative (for TO14A samples only).	✓			□ [TO14]	MS
6. All target analytes on c.cal >30%D but passes LCS criteria noted in the narrative?	✓			□ [ccal] The ccal exhibited a %D ICAL >30% but passes LCS…list analytes on narrative.	MS

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst:	Date: 3/16/12	2nd Level Reviewer:	Date: 031612

□ see following page for comments.

*Such action must be taken in consultation with client.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/13/12
Time: 18:36:04

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
			_	_	Labels, greenbars, worksheets computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____

Concentrationist: _____

****
* *
* **QC BATCH: 2073128** *
* *
****

PREP DATE: 3/13/12
COMP DATE: 3/14/12

Reviewer/Date: _____ / 0/00/00

Volatile Organics by GC/MS TO-15 low-level
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	3/21/12	H2C130401-001 **MRDHH-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130401-002 **MRDHJ-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130401-003 **MRDHK-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130401-004 **MRDHL-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130401-005 **MRDHM-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130401-006 **MRDHN-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130401-007 **MRDHP-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/13/12
Time: 18:36:04

QC BATCH: 2073128

PREP DATE: 3/13/12
COMP DATE: 3/14/12

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	PH"S INIT	PH"S ADJ1	PH"S ADJ2	SOLVENTS EXTRACTION	SOLVENTS VOL	SOLVENTS EXCHANGE	SOLVENTS VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	3/21/12	H2C130401-008 **MRDHQ-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130401-009 **MRDHR-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130401-010 **MRDHT-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130429-001 **MRDNW-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130429-002 **MRDN1-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130429-003 **MRDN4-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130429-004 **MRDN6-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130429-005 **MRDN8-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130429-006 **MRDN9-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	3/21/12	H2C130429-007 **MRDPA-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 3/13/12
Time: 18:36:04

QC BATCH: 2073128

PREP DATE: 3/13/12
COMP DATE: 3/14/12

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	0/00/00	H2C130000-128 **MRD7A-1-AAB**		88	7M	AIR	**500mL** 500.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H2C130000-128 **MRD7A-1-ACC**		88	7M	AIR	**100mL** 100.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 19

Test America Knoxville GC/MS Volatiles

Lot ID: H2C130401 **Batch #:** 9754
Matrix: Air **Can #:** 6683
MethCod: 7M
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	0.080	ppb (v/v)
1,1,2-Trichlorotrifluoroethane	ND	0.080	ppb (v/v)
1,1,2-Trichloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2,4-Trichlorobenzene	ND	0.080	ppb (v/v)
1,2,4-Trimethylbenzene	ND	0.080	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	0.080	ppb (v/v)
1,2-Dichlorobenzene	ND	0.080	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
1,3,5-Trimethylbenzene	ND	0.080	ppb (v/v)
1,4-Dichlorobenzene	ND	0.080	ppb (v/v)
1,4-Dioxane	ND	0.20	ppb (v/v)
2-Butanone (MEK)	ND	0.32	ppb (v/v)
1,3-Dichlorobenzene	ND	0.080	ppb (v/v)
2,2,4-Trimethylpentane	ND	0.20	ppb (v/v)
Benzene	ND	0.080	ppb (v/v)
Benzyl chloride	ND	0.16	ppb (v/v)
Bromodichloromethane	ND	0.080	ppb (v/v)
Bromoform	ND	0.080	ppb (v/v)
Bromomethane	ND	0.080	ppb (v/v)
Carbon tetrachloride	ND	0.040	ppb (v/v)
Chlorobenzene	ND	0.080	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
Chloroform	ND	0.080	ppb (v/v)
Cyclohexane	ND	0.20	ppb (v/v)
Chloromethane	ND	0.20	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
cis-1,3-Dichloropropene	ND	0.080	ppb (v/v)
Dibromochloromethane	ND	0.080	ppb (v/v)
Dichlorodifluoromethane	ND	0.080	ppb (v/v)
Ethanol	ND	0.80	ppb (v/v)
Ethylbenzene	ND	0.080	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ppb (v/v)
n-Hexane	ND	0.20	ppb (v/v)
Hexachlorobutadiene	ND	0.080	ppb (v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2C130401 **Batch #:** 9754
Matrix: Air **Can #:** 6683
MethCod: 7M
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Methyl tert-butyl ether	ND	0.16	ppb (v/v)
Methylene chloride	ND	0.20	ppb (v/v)
Styrene	ND	0.080	ppb (v/v)
tert-Butyl alcohol	ND	0.32	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
Toluene	ND	0.080	ppb (v/v)
m-Xylene & p-Xylene	ND	0.080	ppb (v/v)
o-Xylene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,3-Dichloropropene	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Trichlorofluoromethane	ND	0.080	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2C130401 **Batch #:** 9758
Matrix: Air **Can #:** 6666
MethCod: 7M
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	0.080	ppb (v/v)
1,1,2-Trichlorotrifluoroethane	ND	0.080	ppb (v/v)
1,1,2-Trichloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2,4-Trichlorobenzene	ND	0.080	ppb (v/v)
1,2,4-Trimethylbenzene	ND	0.080	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	0.080	ppb (v/v)
1,2-Dichlorobenzene	ND	0.080	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
1,3,5-Trimethylbenzene	ND	0.080	ppb (v/v)
1,4-Dichlorobenzene	ND	0.080	ppb (v/v)
1,4-Dioxane	ND	0.20	ppb (v/v)
2-Butanone (MEK)	ND	0.32	ppb (v/v)
1,3-Dichlorobenzene	ND	0.080	ppb (v/v)
2,2,4-Trimethylpentane	ND	0.20	ppb (v/v)
Benzene	ND	0.080	ppb (v/v)
Benzyl chloride	ND	0.16	ppb (v/v)
Bromodichloromethane	ND	0.080	ppb (v/v)
Bromoform	ND	0.080	ppb (v/v)
Bromomethane	ND	0.080	ppb (v/v)
Carbon tetrachloride	ND	0.040	ppb (v/v)
Chlorobenzene	ND	0.080	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
Chloroform	ND	0.080	ppb (v/v)
Cyclohexane	ND	0.20	ppb (v/v)
Chloromethane	ND	0.20	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
cis-1,3-Dichloropropene	ND	0.080	ppb (v/v)
Dibromochloromethane	ND	0.080	ppb (v/v)
Dichlorodifluoromethane	ND	0.080	ppb (v/v)
Ethanol	ND	0.80	ppb (v/v)
Ethylbenzene	ND	0.080	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ppb (v/v)
n-Hexane	ND	0.20	ppb (v/v)
Hexachlorobutadiene	ND	0.080	ppb (v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2C130401 **Batch #:** 9758
Matrix: Air **Can #:** 6666
MethCod: 7M
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Methyl tert-butyl ether	ND	0.16	ppb (v/v)
Methylene chloride	ND	0.20	ppb (v/v)
Styrene	ND	0.080	ppb (v/v)
tert-Butyl alcohol	ND	0.32	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
Toluene	ND	0.080	ppb (v/v)
m-Xylene & p-Xylene	ND	0.080	ppb (v/v)
o-Xylene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,3-Dichloropropene	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Trichlorofluoromethane	ND	0.080	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Sample Receipt Documentation

TAL Knoxville H2C130401
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: CHAD STANISZEWSKI	Sampled By: E. POPKEN (GES)	1 of 2 COCs
Company: NYSDEC REGION 9	Phone: 800-287-7857 (GES)		
Address: 270 MICHIGAN AVENUE	Site Contact: ERIC POPKEN (GES)		
City/State/Zip BUFFALO, NY 14203	TAL Contact: JAMIE MCKINNEY		
Phone: 716-851-7220			
FAX: 716-851-7226			
Project Name: FORMER VIBROTECH FACILITY	Analysis Turnaround Time		
Site/location: BUFFALO NY	Standard (Specify) 10 BUSINESS DAYS		
PO # SITE # 915765	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
HOUSE #1 SS	3/8-3/9/12	937	9:29	30	3	K407	12878	X									X		
HOUSE #1 INDOOR	3/8-3/9/12	942	9:31	29	4	K476	04337	X							X				
HOUSE #2 SS	3/8-3/9/12	1052	1042	29	0	K343	0112	X									X		
HOUSE #2 SS DUP	3/8-3/9/12	1052	10:42	29	4	K151	0120	X									X		
HOUSE #2 INDOOR	3/8/12-3/9/12	1100	1042	29	5	K464	93170	X							X				
HOUSE #2 INDOOR MS	3/8-3/9/12	1105	10:42	30	6	K188	12264	X							X				

Sampled by : ERIC POPKEN (GES)

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

2 Boxes Recd @ Ambient Temp with out custody seals 3/10/12

2 Boxes Fed X #

Pressure (inches of Hg)	Interior	Ambient	
Start			4485 0260 5905
Stop			4485 0260 5927

10 CANS / 10 FLOWS / 1 THAN / 10 CC

Special Instructions/QC Requirements & Comments:

CATEGORY B ASP Deliverable.
NYSDEC EQUIS EDD.

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by: E. Popken	Date/Time: 3/9/12 1534	Received by: 3/9/12 1534
Relinquished by:	Date/Time: 3/1/12 1700	Received by: 3/10/12 845

TAL Knoxville H2 C 130401
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: CHAD STANISZEWSKI	Sampled By: ERIC POPKEN (GES)	2 of 2 COCs
Company: NYSDEC REGION 9	Phone: 800-287-7857 (GES)		
Address: 270 MICHIGAN AVE	Site Contact: E. POPKEN (GES)		
City/State/Zip BUFFALO, NY 14203	TAL Contact: JANICE MCKINNEY		
Phone: 716-851-7220			
FAX: 716-851-7226			
Project Name: FORMER VIBRATECH FACILITY	Analysis Turnaround Time		
Site/location: BUFFALO, NY	Standard (Specify) 10 BUSINESS DAYS		
PO # SITE #915165	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
HOUSE#2/INDOOR MSD	3/8-3/9/12	1100	10:42	30	6	K421	3283N	X							X				
HOUSE#3 SS	3/8-3/9/12	1145	11:16	29	5	K132	1411	X									X		
HOUSE#3 INDOOR	3/8-3/9/12	1144	11:16	29	6	K437	4746	X							X				
HOUSE #3 OUTDOOR	3/8-3/9/12	1155		29	3	K391	12891	X								X			

Sampled by : ERIC POPKEN (GES)

Temperature (Fahrenheit)	Interior	Ambient	
Start			
Stop			

Pressure (inches of Hg)	Interior	Ambient	
Start			
Stop			

Special Instructions/QC Requirements & Comments:

CATEGORY B ASP DELIVERABLE.
NYSDEC EQUIS EDD.

Canisters Shipped by:	Date/Time:	Canisters Received by:
Samples Relinquished by:	Date/Time: 3/9/12 1534	Received by: 3/9/12 1534
Relinquished by:	Date/Time: 3/9/12 1700	Received by: 3/10/12 845

377

H2C130401

McKinney, Jamie

From: Chad Staniszewski <crstanis@gw.dec.state.ny.us>
Sent: Friday, March 16, 2012 9:50 AM
To: McKinney, Jamie
Cc: Eric D. Popken
Subject: RE: H2C130401 - House #2 Indoor

Hi again Jamie,

Sorry for the delay I wanted to talk to our Central Office folks before I got back to you.

Please run the original sample and one duplicate. Do NOT run the 3rd can. No spikes or MSD.

I think this is all you need but if not let me know. And if you still need to talk to me let me know and I will give you a call.

Thanks,
Chad

Chad Staniszewski, PE
Environmental Engineer II
NYS Department of Environmental Conservation Region 9
270 Michigan
Buffalo, NY 14203-2999

Office Phone: (716) 851-7220
Office Fax: (716) 851-7226

>>> "McKinney, Jamie" <Jamie.McKinney@testamericainc.com> 3/15/2012 9:29
>>> AM >>>
Hey Chad!
The method doesn't reference a matrix spike/matrix spike duplicate and our SOP is written the same way. We are not set up to perform matrix spike/matrix spike duplicates with methods TO14A or TO15. So far it hasn't been a problem with our other NYSDEC projects.
Right now those 3 cans are logged as individual samples. We can either run each as an individual sample, run one as the original and one as the duplicate, or run the original and cancel the MS and MSD cans?
Please let me know which way you want us to proceed or give me a call if you have further questions.
Jamie

H2C130401

-----Original Message-----
From: Chad Staniszewski [mailto:crstanis@gw.dec.state.ny.us]
Sent: Thursday, March 15, 2012 9:15 AM
To: McKinney, Jamie
Cc: Eric D. Popken
Subject: Re: H2C130401 - House #2 Indoor

Hi Jamie,

Just so I understand correctly, I am assuming the problem is that the test method does not provide a procedure for splitting a spiked air sample? Or does the test method not provide a procedure for spiking the air sample?

If it is simply a test method/procedural issue, then yes spike the sample and run one as the original and one as the duplicate. If it is more than that, then I will give you a call to discuss. Labs have done this for us in the past and that is why I am thinking it is more a test method issue than an actually issue with spiking and splitting.

Let me know.

Thanks,
Chad

Chad Staniszewski, PE
Environmental Engineer II
NYS Department of Environmental Conservation Region 9
270 Michigan
Buffalo, NY 14203-2999

Office Phone: (716) 851-7220
Office Fax: (716) 851-7226

>>> "McKinney, Jamie" <Jamie.McKinney@testamericainc.com> 3/14/2012
>>> 12:56 PM >>>
Chad,
Sample House #2 Indoor was received with an associated MS/MSD. However, MS/MSDs are not applicable to method TO15. Do you want us to run each as individual samples, run one as the original and one as the duplicate, or cancel the MS and MSD sample? Please give me a call if you have further questions before you can make a decision.
Jamie

HZC130401

Announcing TotalAccess 4.0 - Online access to your data. New homepage with easier access to your data, multiple search criteria including sampling date and much more! Contact your Account Executive or Project Manager today to arrange for a live demonstration!

JAMIE MCKINNEY
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5815 Middlebrook Pike
Knoxville, TN 37921
Tel 865.291.3051 I Fax 865.584.4315
www.testamericainc.com <http://www.testamericainc.com/>

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H2C130401

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	NA
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?		✓		☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	✓				

Quote #: 90206 PM Instructions: _____

Sample Receiving Associate: [signature] Date: 3/10/12

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Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: *H2C130401*

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
DDF 3-13-12	NA	29.05	MRDHH	12878	-3.3													9758
			MRDHJ	04337	-4.5													9754
			MRDHK	0112	0													
			MRDHL	0120	-3.8													
			MRDHM	93170	-4.0													
			MRDHN	12264	-4.2													
			MRDHP	3283N	-3.6													
			MRDHQ	1411	-4.8													
			MRDHR	04746	-3.2													
			MRDHT	12891	-3.7													

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

ANALYTICAL REPORT

PROJECT NO. 915165

Vibratech Inc.

Lot #: H2E310431

Chad Staniszewski

New York State D.E.C.
270 Michigan Avenue
Buffalo, NY 14203-2999

TESTAMERICA LABORATORIES, INC.

Jamie A. McKinney
Project Manager

June 11, 2012

ANALYTICAL METHODS SUMMARY

H2E310431

PARAMETER	ANALYTICAL METHOD
Volatile Organics by TO15	EPA-2 TO-15

References:

EPA-2 "Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air", EPA-625/R-96/010b, January 1999.

SAMPLE SUMMARY

H2E310431

WO #	SAMPLE#	CLIENT SAMPLE ID	SAMPLED DATE	SAMP TIME
MTWP0	001	HOUSE # 4 SS	05/30/12	12:50
MTWP4	002	HOUSE # 4 SS DUP	05/30/12	12:50
MTWP7	003	HOUSE # 4 INDOOR	05/30/12	12:57
MTWP8	004	HOUSE # 4 OUTDOOR	05/30/12	13:05

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

PROJECT NARRATIVE
H2E310431

The results reported herein are applicable to the samples submitted for analysis only. If you have any questions about this report, please call (865) 291-3000 to speak with the TestAmerica project manager listed on the cover page.

This report shall not be reproduced except in full, without the written approval of the laboratory.

The original chain of custody documentation is included with this report.

Sample Receipt

There were no problems with the condition of the samples received.

Quality Control and Data Interpretation

Unless otherwise noted, all holding times and QC criteria were met and the test results shown in this report meet all applicable NELAC requirements.

EPA methods TO-14A and TO-15 specify the use of humidified "zero air" as the blank reagent for canister cleaning, instrument calibration and sample analysis. Ultra-high purity humidified nitrogen from a cryogenic reservoir is used in place of "zero air" by TestAmerica Knoxville.

The EPA method requires that all target analytes in the continuing calibration verification standard be within 30% difference from the initial calibration. According to the laboratory standard operating procedure, the continuing calibration is acceptable if it meets the laboratory control sample acceptance criteria. Even though the calibration verification analyzed on 6/5/12 exhibited a % difference of > 30% for 2-butanone and 1,4-dioxane, the results were within the LCS acceptance limits.

Quantitation for ethanol was based on a minimum 5-point calibration curve. The following interim criteria are being used until the method performance for these additional analyte is fully established:

- The initial calibration acceptance criteria is set at 40% RSD. Any compound greater than 40% RSD was changed to a linear or quadratic model with an r2 ≥ 0.990 acceptance criteria.
- There are no criteria for second source standard verification % D. The second source standard was independently prepared from the same parent mixture (as the primary source).
- The continuing calibration verification criteria are set at 50% D. Any compound greater than 50% D must pass the LCS criteria.
- The LCS recovery criteria are set at 20% to 180%.
- A method detection limit study has not been performed. The detection of the analyte is demonstrated by detection of the calibration standard at the reporting limit. No estimated results are reported below the reporting limit.
- The stock calibration source used for ethanol in the continuing calibration verification and the LCS was past the manufacturer's expiration date by 3 days. However, ethanol continued to meet the above quality control criteria using the initial calibration analyzed on 5/24/12.

CERTIFICATION SUMMARY

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Knoxville	ACLASS	DoD ELAP		ADE-1434
TestAmerica Knoxville	Arkansas	State Program	6	88-0688
TestAmerica Knoxville	California	State Program	9	2423
TestAmerica Knoxville	Colorado	State Program	8	N/A
TestAmerica Knoxville	Connecticut	State Program	1	PH-0223
TestAmerica Knoxville	Florida	NELAC	4	E87177
TestAmerica Knoxville	Georgia	State Program	4	906
TestAmerica Knoxville	Hawaii	State Program	9	N/A
TestAmerica Knoxville	Indiana	State Program	5	C-TN-02
TestAmerica Knoxville	Iowa	State Program	7	375
TestAmerica Knoxville	Kansas	NELAC	7	E-10349
TestAmerica Knoxville	Kentucky	State Program	4	90101
TestAmerica Knoxville	Louisiana	NELAC	6	LA110001
TestAmerica Knoxville	Louisiana	NELAC	6	83979
TestAmerica Knoxville	Maryland	State Program	3	277
TestAmerica Knoxville	Michigan	State Program	5	9933
TestAmerica Knoxville	Minnesota	NELAC	5	047-999-429
TestAmerica Knoxville	Nevada	State Program	9	TN00009
TestAmerica Knoxville	New Jersey	NELAC	2	TN001
TestAmerica Knoxville	New York	NELAC	2	10781
TestAmerica Knoxville	North Carolina	North Carolina DENR	4	64
TestAmerica Knoxville	North Carolina	North Carolina PHL	4	21705
TestAmerica Knoxville	Ohio	OVAP	5	CL0059
TestAmerica Knoxville	Oklahoma	State Program	6	9415
TestAmerica Knoxville	Pennsylvania	NELAC	3	68-00576
TestAmerica Knoxville	South Carolina	State Program	4	84001
TestAmerica Knoxville	Tennessee	State Program	4	2014
TestAmerica Knoxville	Texas	NELAC	6	T104704380-TX
TestAmerica Knoxville	USDA	USDA		P330-11-00035
TestAmerica Knoxville	Utah	NELAC	8	QUAN3
TestAmerica Knoxville	Virginia	State Program	3	165
TestAmerica Knoxville	Washington	State Program	10	C593
TestAmerica Knoxville	West Virginia	West Virginia DEP	3	345
TestAmerica Knoxville	West Virginia	West Virginia DHHR (DW)	3	9955C
TestAmerica Knoxville	Wisconsin	State Program	5	998044300

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Sample Data Summary

New York State D.E.C.

Client Sample ID: HOUSE # 4 SS

GC/MS Volatiles

Lot-Sample # H2E310431 - 001 **Work Order #** MTWP01AA **Matrix.....:** AIR

Date Sampled...: 05/30/2012 **Date Received..:** 05/31/2012
Prep Date.....: 06/05/2012 **Analysis Date...** 06/05/2012
Prep Batch #.....: 2156111
Dilution Factor.: 3.7 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	**1.3**	**0.30**	**7.3**	**1.6**
1,1,2,2-Tetrachloroethane	ND	0.30	ND	2.0
1,1,2-Trichlorotrifluoroethane	ND	0.30	ND	2.3
1,1,2-Trichloroethane	ND	0.30	ND	1.6
1,1-Dichloroethane	ND	0.30	ND	1.2
1,1-Dichloroethene	ND	0.30	ND	1.2
1,2,4-Trichlorobenzene	ND	0.30	ND	2.2
1,2,4-Trimethylbenzene	**1.6**	**0.30**	**7.9**	**1.5**
1,2-Dibromoethane (EDB)	ND	0.30	ND	2.3
1,2-Dichlorobenzene	ND	0.30	ND	1.8
1,2-Dichloroethane	ND	0.30	ND	1.2
1,2-Dichloropropane	ND	0.30	ND	1.4
1,3,5-Trimethylbenzene	**0.40**	**0.30**	**2.0**	**1.5**
1,4-Dichlorobenzene	ND	0.30	ND	1.8
1,4-Dioxane	ND	0.74	ND	2.7
2-Butanone (MEK)	**2.2**	**1.2**	**6.4**	**3.5**
1,3-Dichlorobenzene	ND	0.30	ND	1.8
2,2,4-Trimethylpentane	ND	0.74	ND	3.5
Benzene	**1.5**	**0.30**	**4.7**	**0.95**
Benzyl chloride	ND	0.59	ND	3.1
Bromodichloromethane	ND	0.30	ND	2.0
Bromoform	ND	0.30	ND	3.1
Bromomethane	ND	0.30	ND	1.1
Carbon tetrachloride	ND	0.15	ND	0.93
Chlorobenzene	ND	0.30	ND	1.4
Chloroethane	ND	0.30	ND	0.78
Chloroform	**31**	**0.30**	**150**	**1.4**
Cyclohexane	**1.4**	**0.74**	**4.7**	**2.5**
Chloromethane	ND	0.74	ND	1.5
cis-1,2-Dichloroethene	ND	0.30	ND	1.2
cis-1,3-Dichloropropene	ND	0.30	ND	1.3
Dibromochloromethane	ND	0.30	ND	2.5
Dichlorodifluoromethane	**0.44**	**0.30**	**2.2**	**1.5**
Ethanol	**10**	**3.0**	**19**	**5.6**
Ethylbenzene	**1.4**	**0.30**	**6.0**	**1.3**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.30	ND	2.1
n-Hexane	**3.2**	**0.74**	**11**	**2.6**
Hexachlorobutadiene	ND	0.30	ND	3.2

New York State D.E.C.

Client Sample ID: HOUSE # 4 SS

GC/MS Volatiles

Lot-Sample # H2E310431 - 001 **Work Order #** MTWP01AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.74	ND	3.0
Methyl tert-butyl ether	ND	0.59	ND	2.1
Methylene chloride	**1.1**	**0.74**	**3.7**	**2.6**
Styrene	ND	0.30	ND	1.3
tert-Butyl alcohol	ND	1.2	ND	3.6
Tetrachloroethene	ND	0.30	ND	2.0
Toluene	**7.7**	**0.30**	**29**	**1.1**
m-Xylene & p-Xylene	**5.0**	**0.30**	**22**	**1.3**
o-Xylene	**1.9**	**0.30**	**8.2**	**1.3**
trans-1,2-Dichloroethene	ND	0.30	ND	1.2
trans-1,3-Dichloropropene	ND	0.30	ND	1.3
Trichloroethene	ND	0.15	ND	0.80
Trichlorofluoromethane	**0.57**	**0.30**	**3.2**	**1.7**
Vinyl chloride	ND	0.30	ND	0.76

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 4 SS DUP

GC/MS Volatiles

Lot-Sample # H2E310431 - 002 **Work Order #** MTWP41AA **Matrix.....:** AIR

Date Sampled...: 05/30/2012 **Date Received..:** 05/31/2012
Prep Date.....: 06/05/2012 **Analysis Date...** 06/05/2012
Prep Batch #.....: 2156111
Dilution Factor.: 3.5 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	**1.3**	**0.28**	**7.0**	**1.5**
1,1,2,2-Tetrachloroethane	ND	0.28	ND	1.9
1,1,2-Trichlorotrifluoroethane	ND	0.28	ND	2.1
1,1,2-Trichloroethane	ND	0.28	ND	1.5
1,1-Dichloroethane	ND	0.28	ND	1.1
1,1-Dichloroethene	ND	0.28	ND	1.1
1,2,4-Trichlorobenzene	ND	0.28	ND	2.1
1,2,4-Trimethylbenzene	**1.7**	**0.28**	**8.2**	**1.4**
1,2-Dibromoethane (EDB)	ND	0.28	ND	2.2
1,2-Dichlorobenzene	ND	0.28	ND	1.7
1,2-Dichloroethane	ND	0.28	ND	1.1
1,2-Dichloropropane	ND	0.28	ND	1.3
1,3,5-Trimethylbenzene	**0.39**	**0.28**	**1.9**	**1.4**
1,4-Dichlorobenzene	ND	0.28	ND	1.7
1,4-Dioxane	ND	0.70	ND	2.5
2-Butanone (MEK)	**2.4**	**1.1**	**7.0**	**3.3**
1,3-Dichlorobenzene	ND	0.28	ND	1.7
2,2,4-Trimethylpentane	ND	0.70	ND	3.3
Benzene	**1.5**	**0.28**	**4.8**	**0.89**
Benzyl chloride	ND	0.56	ND	2.9
Bromodichloromethane	ND	0.28	ND	1.9
Bromoform	ND	0.28	ND	2.9
Bromomethane	ND	0.28	ND	1.1
Carbon tetrachloride	ND	0.14	ND	0.88
Chlorobenzene	ND	0.28	ND	1.3
Chloroethane	ND	0.28	ND	0.74
Chloroform	**29**	**0.28**	**140**	**1.4**
Cyclohexane	**1.4**	**0.70**	**4.7**	**2.4**
Chloromethane	ND	0.70	ND	1.4
cis-1,2-Dichloroethene	ND	0.28	ND	1.1
cis-1,3-Dichloropropene	ND	0.28	ND	1.3
Dibromochloromethane	ND	0.28	ND	2.4
Dichlorodifluoromethane	**0.43**	**0.28**	**2.1**	**1.4**
Ethanol	**12**	**2.8**	**22**	**5.3**
Ethylbenzene	**1.5**	**0.28**	**6.4**	**1.2**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.28	ND	2.0
n-Hexane	**3.2**	**0.70**	**11**	**2.5**
Hexachlorobutadiene	ND	0.28	ND	3.0

New York State D.E.C.

Client Sample ID: HOUSE # 4 SS DUP

GC/MS Volatiles

Lot-Sample # H2E310431 - 002 **Work Order #** MTWP41AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.70	ND	2.9
Methyl tert-butyl ether	ND	0.56	ND	2.0
Methylene chloride	**1.3**	**0.70**	**4.5**	**2.4**
Styrene	ND	0.28	ND	1.2
tert-Butyl alcohol	ND	1.1	ND	3.4
Tetrachloroethene	ND	0.28	ND	1.9
Toluene	**8.4**	**0.28**	**31**	**1.1**
m-Xylene & p-Xylene	**5.4**	**0.28**	**24**	**1.2**
o-Xylene	**2.0**	**0.28**	**8.6**	**1.2**
trans-1,2-Dichloroethene	ND	0.28	ND	1.1
trans-1,3-Dichloropropene	ND	0.28	ND	1.3
Trichloroethene	ND	0.14	ND	0.75
Trichlorofluoromethane	**0.52**	**0.28**	**2.9**	**1.6**
Vinyl chloride	ND	0.28	ND	0.72

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	98	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 4 INDOOR

GC/MS Volatiles

Lot-Sample # H2E310431 - 003 **Work Order #** MTWP71AA **Matrix.....:** AIR

Date Sampled...: 05/30/2012 **Date Received..:** 05/31/2012
Prep Date.....: 06/05/2012 **Analysis Date...** 06/05/2012
Prep Batch #.....: 2156111
Dilution Factor.: 5 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.40	ND	2.2
1,1,2,2-Tetrachloroethane	ND	0.40	ND	2.7
1,1,2-Trichlorotrifluoroethane	ND	0.40	ND	3.1
1,1,2-Trichloroethane	ND	0.40	ND	2.2
1,1-Dichloroethane	ND	0.40	ND	1.6
1,1-Dichloroethene	ND	0.40	ND	1.6
1,2,4-Trichlorobenzene	ND	0.40	ND	3.0
1,2,4-Trimethylbenzene	**8.8**	**0.40**	**43**	**2.0**
1,2-Dibromoethane (EDB)	ND	0.40	ND	3.1
1,2-Dichlorobenzene	ND	0.40	ND	2.4
1,2-Dichloroethane	ND	0.40	ND	1.6
1,2-Dichloropropane	ND	0.40	ND	1.8
1,3,5-Trimethylbenzene	**1.9**	**0.40**	**9.5**	**2.0**
1,4-Dichlorobenzene	ND	0.40	ND	2.4
1,4-Dioxane	ND	1.0	ND	3.6
2-Butanone (MEK)	**7.2**	**1.6**	**21**	**4.7**
1,3-Dichlorobenzene	ND	0.40	ND	2.4
2,2,4-Trimethylpentane	**7.2**	**1.0**	**34**	**4.7**
Benzene	**9.2**	**0.40**	**30**	**1.3**
Benzyl chloride	ND	0.80	ND	4.1
Bromodichloromethane	ND	0.40	ND	2.7
Bromoform	ND	0.40	ND	4.1
Bromomethane	ND	0.40	ND	1.6
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.40	ND	1.8
Chloroethane	ND	0.40	ND	1.1
Chloroform	**0.59**	**0.40**	**2.9**	**2.0**
Cyclohexane	**3.6**	**1.0**	**13**	**3.4**
Chloromethane	ND	1.0	ND	2.1
cis-1,2-Dichloroethene	ND	0.40	ND	1.6
cis-1,3-Dichloropropene	ND	0.40	ND	1.8
Dibromochloromethane	ND	0.40	ND	3.4
Dichlorodifluoromethane	**0.42**	**0.40**	**2.1**	**2.0**
Ethanol	**150**	**4.0**	**280**	**7.5**
Ethylbenzene	**11**	**0.40**	**47**	**1.7**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.40	ND	2.8
n-Hexane	**17**	**1.0**	**60**	**3.5**
Hexachlorobutadiene	ND	0.40	ND	4.3

New York State D.E.C.

Client Sample ID: HOUSE # 4 INDOOR

GC/MS Volatiles

Lot-Sample # H2E310431 - 003 **Work Order #** MTWP71AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	1.0	ND	4.1
Methyl tert-butyl ether	ND	0.80	ND	2.9
Methylene chloride	ND	1.0	ND	3.5
Styrene	ND	0.40	ND	1.7
tert-Butyl alcohol	ND	1.6	ND	4.9
Tetrachloroethene	ND	0.40	ND	2.7
Toluene	**53**	**0.40**	**200**	**1.5**
m-Xylene & p-Xylene	**38**	**0.40**	**170**	**1.7**
o-Xylene	**15**	**0.40**	**66**	**1.7**
trans-1,2-Dichloroethene	**0.41**	**0.40**	**1.6**	**1.6**
trans-1,3-Dichloropropene	ND	0.40	ND	1.8
Trichloroethene	ND	0.20	ND	1.1
Trichlorofluoromethane	ND	0.40	ND	2.2
Vinyl chloride	ND	0.40	ND	1.0

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: HOUSE # 4 OUTDOOR

GC/MS Volatiles

Lot-Sample # H2E310431 - 004 **Work Order #** MTWP81AA **Matrix.....:** AIR

Date Sampled...: 05/30/2012 **Date Received..:** 05/31/2012
Prep Date.....: 06/05/2012 **Analysis Date...** 06/05/2012
Prep Batch #.....: 2156111
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**0.62**	**0.32**	**1.8**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.12**	**0.080**	**0.39**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.089**	**0.040**	**0.56**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	**0.64**	**0.20**	**1.3**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.47**	**0.080**	**2.3**	**0.40**
Ethanol	**4.3**	**0.80**	**8.1**	**1.5**
Ethylbenzene	ND	0.080	ND	0.35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	ND	0.20	ND	0.70
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 4 OUTDOOR

GC/MS Volatiles

Lot-Sample # H2E310431 - 004 **Work Order #** MTWP81AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	**0.30**	**0.20**	**1.0**	**0.69**
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.42**	**0.080**	**1.6**	**0.30**
m-Xylene & p-Xylene	**0.26**	**0.080**	**1.1**	**0.35**
o-Xylene	**0.099**	**0.080**	**0.43**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.32**	**0.080**	**1.8**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2F040000 - 111B **Work Order #** MTX9G1AA **Matrix.....:** AIR

	05/30/2012	**Date Received..:**	05/31/2012
Prep Date.....:	06/05/2012	**Analysis Date...**	06/05/2012
Prep Batch #.....:	2156111		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	ND	0.32	ND	0.94
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	ND	0.080	ND	0.26
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	ND	0.040	ND	0.25
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	ND	0.20	ND	0.41
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	ND	0.080	ND	0.40
Ethanol	ND	0.80	ND	1.5
Ethylbenzene	ND	0.080	ND	0.35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	ND	0.20	ND	0.70

New York State D.E.C.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2F040000 - 111B **Work Order #** MTX9G1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Hexachlorobutadiene	ND	0.080	ND	0.85
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	ND	0.080	ND	0.30
m-Xylene & p-Xylene	ND	0.080	ND	0.35
o-Xylene	ND	0.080	ND	0.35
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	ND	0.080	ND	0.45
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

New York State D.E.C.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2F040000 - 111C **Work Order #** MTX9G1AC **Matrix.....:** AIR

	05/30/2012	**Date Received..:**	05/31/2012
Prep Date.....:	06/05/2012	**Analysis Date...**	06/05/2012
Prep Batch #.....:	2156111		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
1,1,1-Trichloroethane	5.00	5.01	27	27.3	100	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.22	34	29.0	84	70 - 130
1,1,2-Trichlorotrifluoroethane	5.00	5.92	38	45.4	118	70 - 130
1,1,2-Trichloroethane	5.00	4.20	27	22.9	84	70 - 130
1,1-Dichloroethane	5.00	5.05	20	20.4	101	70 - 130
1,1-Dichloroethene	5.00	6.02	20	23.9	120	70 - 130
1,2,4-Trichlorobenzene	5.00	3.58	37	26.6	72	60 - 140
1,2,4-Trimethylbenzene	5.00	4.04	25	19.9	81	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.25	38	32.7	85	70 - 130
1,2-Dichlorobenzene	5.00	3.82	30	23.0	76	70 - 130
1,2-Dichloroethane	5.00	4.51	20	18.3	90	70 - 130
1,2-Dichloropropane	5.00	4.08	23	18.9	82	70 - 130
1,3,5-Trimethylbenzene	5.00	4.19	25	20.6	84	70 - 130
1,4-Dichlorobenzene	5.00	3.85	30	23.1	77	70 - 130
1,4-Dioxane	5.00	3.44	18	12.4	69	60 - 140
2-Butanone (MEK)	5.00	3.45	15	10.2	69	60 - 140
1,3-Dichlorobenzene	5.00	3.93	30	23.6	79	70 - 130
2,2,4-Trimethylpentane	5.00	4.12	23	19.3	82	70 - 130
Benzene	5.00	4.10	16	13.1	82	70 - 130
Benzyl chloride	5.00	3.64	26	18.9	73	70 - 130
Bromodichloromethane	5.00	4.42	34	29.6	88	70 - 130
Bromoform	5.00	4.84	52	50.0	97	60 - 140
Bromomethane	5.00	4.55	19	17.7	91	70 - 130
Carbon tetrachloride	5.00	5.71	31	35.9	114	70 - 130
Chlorobenzene	5.00	4.22	23	19.4	84	70 - 130
Chloroethane	5.00	4.83	13	12.7	97	70 - 130
Chloroform	5.00	4.85	24	23.7	97	70 - 130
Cyclohexane	5.00	4.46	17	15.4	89	70 - 130
Chloromethane	5.00	4.97	10	10.3	99	60 - 140
cis-1,2-Dichloroethene	5.00	5.06	20	20.0	101	70 - 130
cis-1,3-Dichloropropene	5.00	4.37	23	19.8	87	70 - 130
Dibromochloromethane	5.00	4.80	43	40.9	96	70 - 130
Dichlorodifluoromethane	5.00	5.01	25	24.8	100	60 - 140
Ethanol	24.6	25.1	46	47.2	102	20 - 180
Ethylbenzene	5.00	4.36	22	18.9	87	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	4.82	35	33.7	96	60 - 140

New York State D.E.C.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2F040000 - 111C **Work Order #** MTX9G1AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
n-Hexane	5.00	4.74	18	16.7	95	70 - 130
Hexachlorobutadiene	5.00	4.05	53	43.2	81	60 - 140
4-Methyl-2-pentanone (MIBK)	5.00	3.75	20	15.4	75	60 - 140
Methyl tert-butyl ether	5.00	4.65	18	16.8	93	60 - 140
Methylene chloride	5.00	5.50	17	19.1	110	70 - 130
Styrene	5.00	4.40	21	18.8	88	70 - 130
tert-Butyl alcohol	5.00	4.51	15	13.7	90	60 - 140
Tetrachloroethene	5.00	4.14	34	28.1	83	70 - 130
Toluene	5.00	4.28	19	16.1	86	70 - 130
m-Xylene & p-Xylene	10.0	8.67	43	37.6	87	70 - 130
o-Xylene	5.00	4.32	22	18.8	86	70 - 130
trans-1,2-Dichloroethene	5.00	5.00	20	19.8	100	70 - 130
trans-1,3-Dichloropropene	5.00	4.58	23	20.8	92	70 - 130
Trichloroethene	5.00	4.40	27	23.7	88	70 - 130
Trichlorofluoromethane	5.00	5.09	28	28.6	102	60 - 140
Vinyl chloride	5.00	4.70	13	12.0	94	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Sample Receipt Documentation

TAL Knoxville H2E310431
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	Project Manager: Chad Staniszewski	Sampled By: E. Popken (GES)	1 of 1 COCs
Company: [redacted] NYSDEC 9	Phone: 716-851-7220		
Address: 285 Michigan Ave	Site Contact: E. Popken (GES)		
City/State/Zip Buffalo, NY	TAL Contact: Jamie McKinney		
Phone: 716-851-7220			
FAX:			
Project Name: Vibratech	Analysis Turnaround Time		
Site/location: Buffalo, NY	Standard (Specify)		
PO # Site #915165	Rush (Specify)		

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
House #4 SS	5/29-5/30/12	~~1450~~	1250	28	9	K226	81495	X									X		
House #4 SS Dup	↓	~~1415~~	1250	29	8	K236	7475	X									X		
House #4 Indoor		~~1417~~	1257	29	8	K449	A281	X							X				
House #4 Outdoor		1430	1305	30	8	K414	6684	X								X			

Sampled by : Eric Popken (GES).

Temperature (Fahrenheit)	Interior	Ambient
Start	~ 65°	~ 70°F
Stop	~ 65°	~ 75°F

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

1 Box Received @ Ambient Temp with custody seal intact 5/31/12

1 Box Fed Ex # 4485 0261 2296

4 cans / 4 flows / 4 c.c.'s / 1 T bar

Special Instructions/QC Requirements & Comments:

CATEGORY B ASP Deliverable

Canisters Shipped by:	Date/Time:	Canisters Received by:	
Samples Relinquished by:	Date/Time: 5/30/12 2:05 pm	Received by:	5/30/12 1405
Relinquished by:	Date/Time: 5/30/12 1700	Received by:	5/31/12 1015

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H2E310431

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	✓			☐ **19a** Other	

Quote #: 90206 PM Instructions: _____

Sample Receiving Associate: _____ Date: 5/31/12

QA026R23.doc, 022812

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: *H2E310431*

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
DDF 5-31-12	NA	28.60	MTWP0	S1495	-8.3	+0.7												9885
↓	↓	↓	MTWP4	7475	-6.9	+0.9												9888
↓	↓	↓	MTWP7	A281	-6.9													9885
↓	↓	↓	MTWP8	6684	-7.1													9888

Volatiles

Raw Sample Data

New York State D.E.C.

Client Sample ID: HOUSE # 4 SS

GC/MS Volatiles

Lot-Sample # H2E310431 - 001 **Work Order #** MTWP01AA **Matrix.....:** AIR

Date Sampled...: 05/30/2012 **Date Received..:** 05/31/2012
Prep Date.....: 06/05/2012 **Analysis Date...** 06/05/2012
Prep Batch #.....: 2156111
Dilution Factor.: 3.7 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	**1.3**	**0.30**	**7.3**	**1.6**
1,1,2,2-Tetrachloroethane	ND	0.30	ND	2.0
1,1,2-Trichlorotrifluoroethane	ND	0.30	ND	2.3
1,1,2-Trichloroethane	ND	0.30	ND	1.6
1,1-Dichloroethane	ND	0.30	ND	1.2
1,1-Dichloroethene	ND	0.30	ND	1.2
1,2,4-Trichlorobenzene	ND	0.30	ND	2.2
1,2,4-Trimethylbenzene	**1.6**	**0.30**	**7.9**	**1.5**
1,2-Dibromoethane (EDB)	ND	0.30	ND	2.3
1,2-Dichlorobenzene	ND	0.30	ND	1.8
1,2-Dichloroethane	ND	0.30	ND	1.2
1,2-Dichloropropane	ND	0.30	ND	1.4
1,3,5-Trimethylbenzene	**0.40**	**0.30**	**2.0**	**1.5**
1,4-Dichlorobenzene	ND	0.30	ND	1.8
1,4-Dioxane	ND	0.74	ND	2.7
2-Butanone (MEK)	**2.2**	**1.2**	**6.4**	**3.5**
1,3-Dichlorobenzene	ND	0.30	ND	1.8
2,2,4-Trimethylpentane	ND	0.74	ND	3.5
Benzene	**1.5**	**0.30**	**4.7**	**0.95**
Benzyl chloride	ND	0.59	ND	3.1
Bromodichloromethane	ND	0.30	ND	2.0
Bromoform	ND	0.30	ND	3.1
Bromomethane	ND	0.30	ND	1.1
Carbon tetrachloride	ND	0.15	ND	0.93
Chlorobenzene	ND	0.30	ND	1.4
Chloroethane	ND	0.30	ND	0.78
Chloroform	**31**	**0.30**	**150**	**1.4**
Cyclohexane	**1.4**	**0.74**	**4.7**	**2.5**
Chloromethane	ND	0.74	ND	1.5
cis-1,2-Dichloroethene	ND	0.30	ND	1.2
cis-1,3-Dichloropropene	ND	0.30	ND	1.3
Dibromochloromethane	ND	0.30	ND	2.5
Dichlorodifluoromethane	**0.44**	**0.30**	**2.2**	**1.5**
Ethanol	**10**	**3.0**	**19**	**5.6**
Ethylbenzene	**1.4**	**0.30**	**6.0**	**1.3**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.30	ND	2.1
n-Hexane	**3.2**	**0.74**	**11**	**2.6**
Hexachlorobutadiene	ND	0.30	ND	3.2

New York State D.E.C.

Client Sample ID: HOUSE # 4 SS

GC/MS Volatiles

Lot-Sample # H2E310431 - 001 **Work Order #** MTWP01AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.74	ND	3.0
Methyl tert-butyl ether	ND	0.59	ND	2.1
Methylene chloride	**1.1**	**0.74**	**3.7**	**2.6**
Styrene	ND	0.30	ND	1.3
tert-Butyl alcohol	ND	1.2	ND	3.6
Tetrachloroethene	ND	0.30	ND	2.0
Toluene	**7.7**	**0.30**	**29**	**1.1**
m-Xylene & p-Xylene	**5.0**	**0.30**	**22**	**1.3**
o-Xylene	**1.9**	**0.30**	**8.2**	**1.3**
trans-1,2-Dichloroethene	ND	0.30	ND	1.2
trans-1,3-Dichloropropene	ND	0.30	ND	1.3
Trichloroethene	ND	0.15	ND	0.80
Trichlorofluoromethane	**0.57**	**0.30**	**3.2**	**1.7**
Vinyl chloride	ND	0.30	ND	0.76

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d
Lab Smp Id: MTWP01AA Client Smp ID: HOUSE # 4 SS
Inj Date : 05-JUN-2012 11:49
Operator : 7126 Inst ID: mj.i
Smp Info : ,3.7,0,,,
Misc Info : J060512,TO15,nysdec.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J060512.b/TO15.m
Meth Date : 06-Jun-2012 11:48 barlozha Quant Type: ISTD
Cal Date : 24-MAY-2012 13:43 Cal File: jice241.d
Als bottle: 15
Dil Factor: 3.70000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	3.70000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1 Bromochloromethane	128	8.984	8.987	(1.000)	380101	4.00000	4.000
* 2 1,4-Difluorobenzene	114	11.168	11.171	(1.000)	1723430	4.00000	4.000
* 3 Chlorobenzene-d5	117	15.897	15.894	(1.000)	1514761	4.00000	4.000
$ 4 4-Bromofluorobenzene	95	17.532	17.529	(1.103)	1190236	3.98026	3.980
7 Dichlorodifluoromethane	85	3.906	3.903	(0.435)	62264	0.11804	0.4368
20 Trichlorofluoromethane	101	5.396	5.393	(0.601)	76548	0.15319	0.5668
31 Methylene Chloride	84	6.445	6.442	(0.717)	27714	0.28842	1.067
40 Hexane	56	8.274	8.277	(0.921)	83561	0.86768	3.210
39 2-Butanone	72	8.215	8.212	(0.914)	24185	0.58624	2.169
43 Chloroform	83	9.000	9.003	(1.002)	2529264	8.26766	30.59
45 1,1,1-Trichloroethane	97	10.044	10.041	(1.118)	133054	0.36273	1.342
49 Cyclohexane	69	10.652	10.654	(0.954)	21164	0.36879	1.364
48 Benzene	78	10.635	10.633	(0.952)	128696	0.39788	1.472
65 Toluene	91	13.928	13.930	(0.876)	718971	2.07809	7.689
76 Ethylbenzene	91	16.230	16.233	(1.021)	163017	0.37178	1.376
78 m&p-Xylene	91	16.392	16.394	(1.031)	475019	1.36092	5.035

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d
Report Date: 06-Jun-2012 12:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
82 o-Xylene	91	16.919	16.921	(1.064)	182616	0.50786	1.879
90 1,3,5-Trimethylbenzene	120	18.264	18.261	(1.149)	21789	0.10878	0.4025
94 1,2,4-Trimethylbenzene	105	18.694	18.697	(1.176)	165648	0.43354	1.604
17 ~ ethanol	31	4.896	4.893	(0.545)	95983	2.75845	10.21

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: mtwp01aa.d
Lab Smp Id: MTWP01AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,nysdec.sub,,,

Calibration Date: 05-JUN-2012
Calibration Time: 08:54
Client Smp ID: HOUSE # 4 SS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	373662	222329	524995	380101	1.72
2 1,4-Difluorobenze	1719152	1022895	2415409	1723430	0.25
3 Chlorobenzene-d5	1506917	896616	2117218	1514761	0.52

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.98	-0.03
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	-0.02
3 Chlorobenzene-d5	15.89	15.56	16.22	15.90	0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

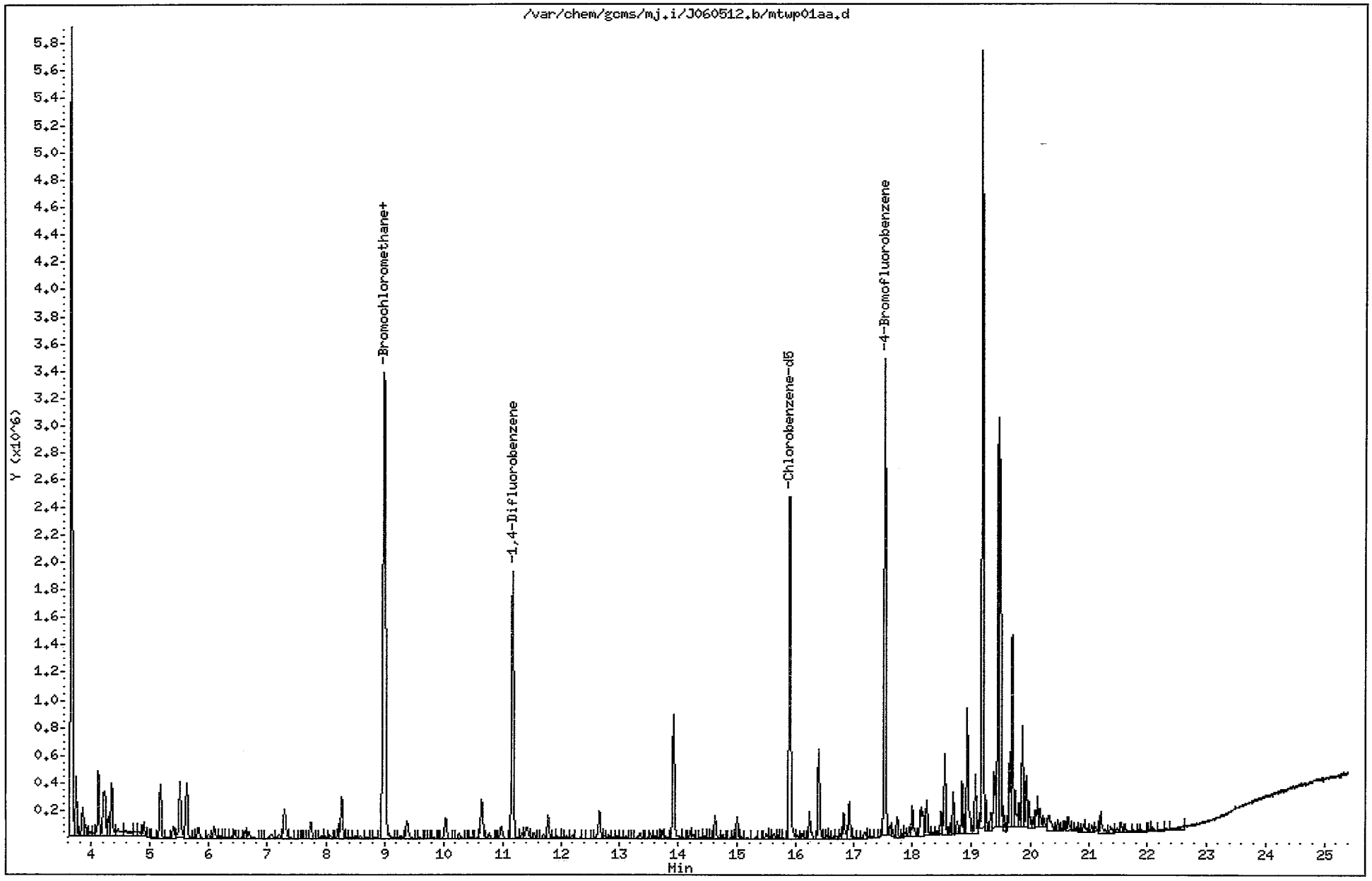
RECOVERY REPORT

Client Name: New York State D.E.C31-MAY-2012 00:00 Client SDG: H2E310431
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MTWP01AA Client Smp ID: HOUSE # 4 SS
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,nysdec.sub,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	3.980	99.51	60-140

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d
Date : 05-JUN-2012 11:49
Client ID: HOUSE # 4 SS
Sample Info: ,3.7,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

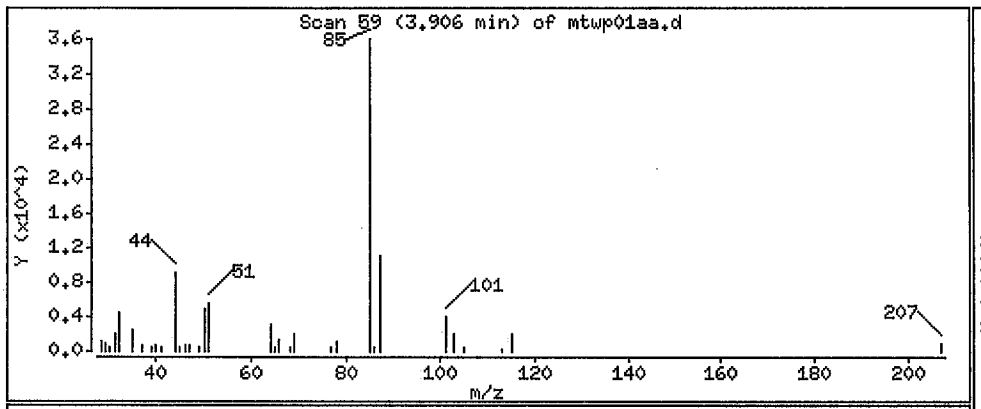
Operator: 7126

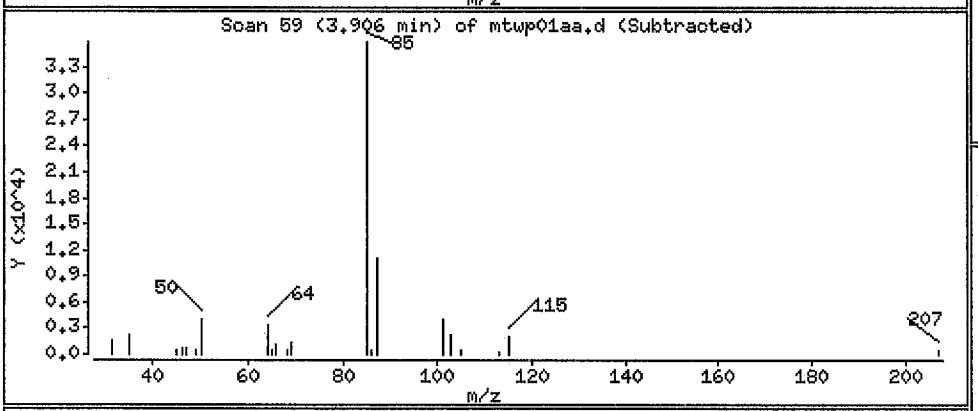
Column phase: Rtx-5

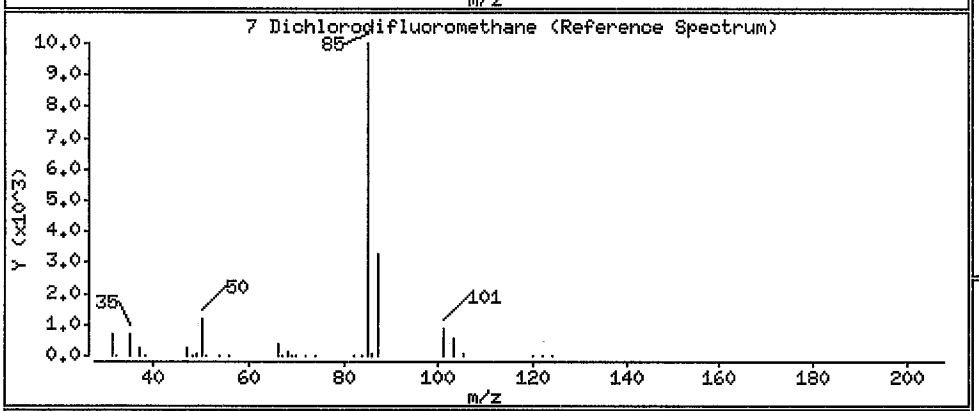
Column diameter: 0.32

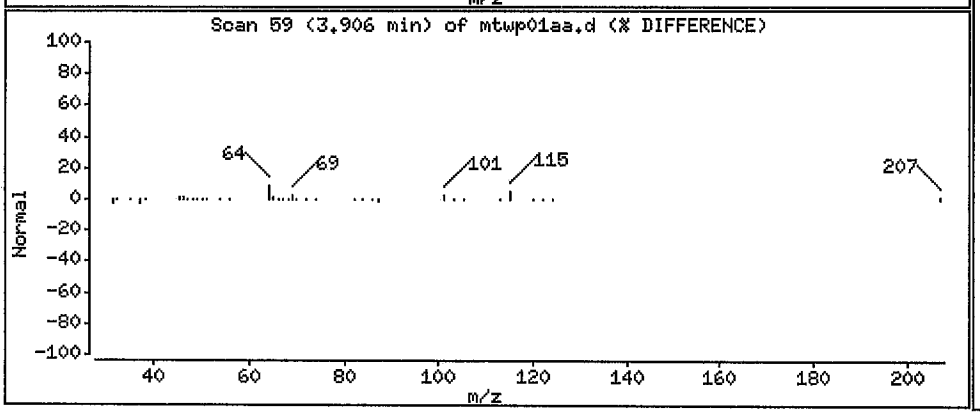
7 Dichlorodifluoromethane

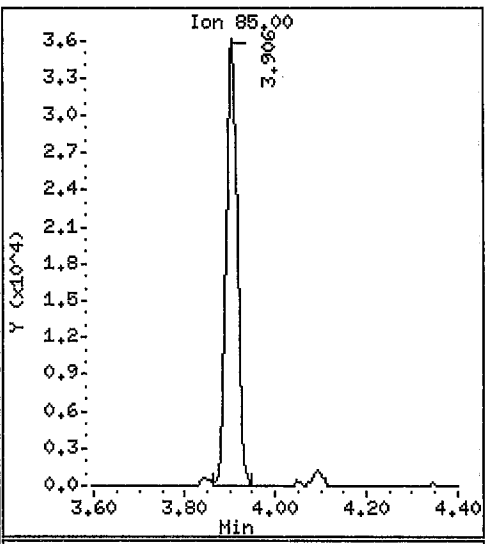
Concentration: 0.4368 ppb(v/v)

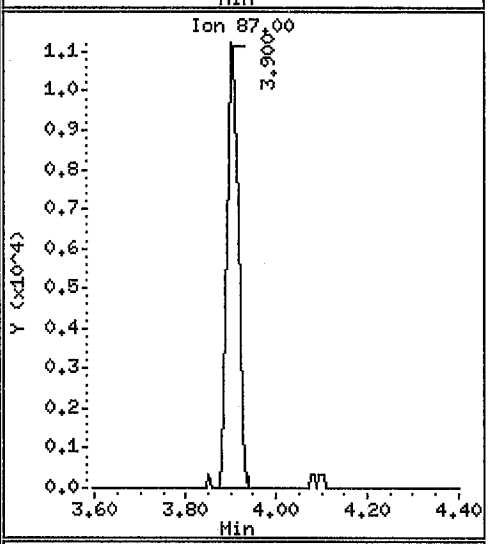


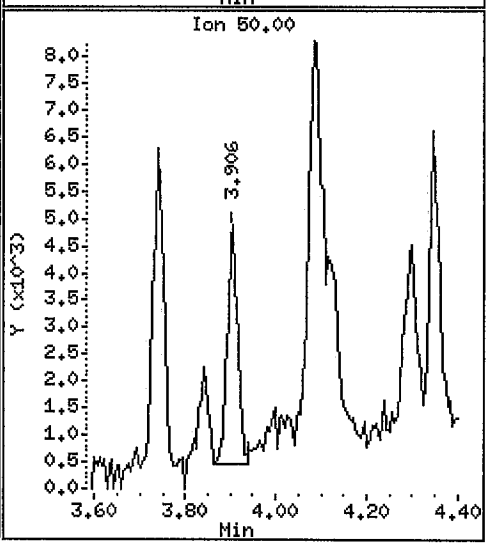












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

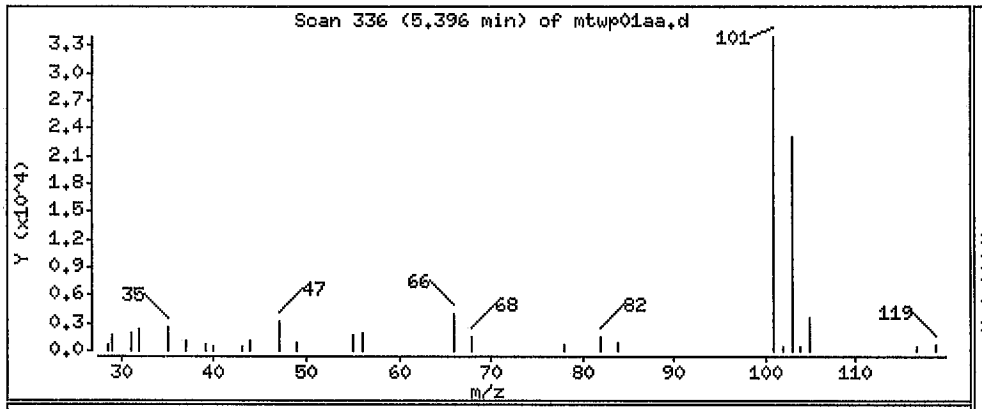
Operator: 7126

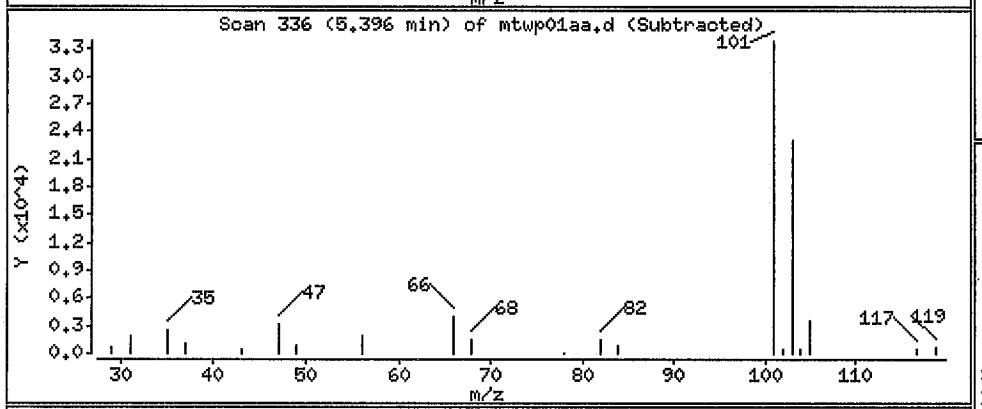
Column phase: Rtx-5

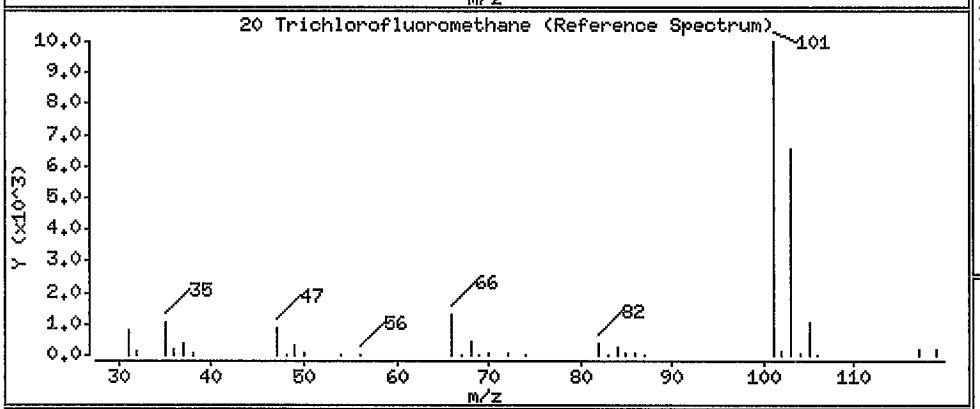
Column diameter: 0.32

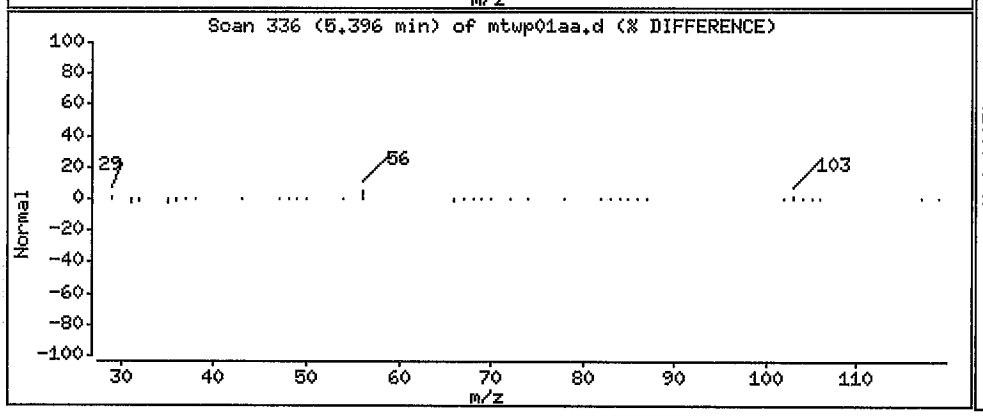
20 Trichlorofluoromethane

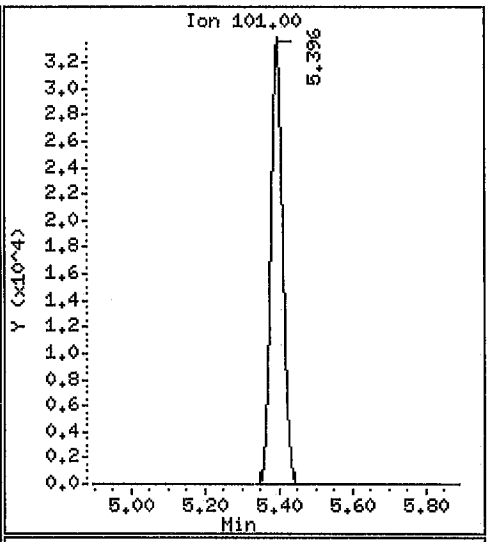
Concentration: 0.5668 ppb(v/v)

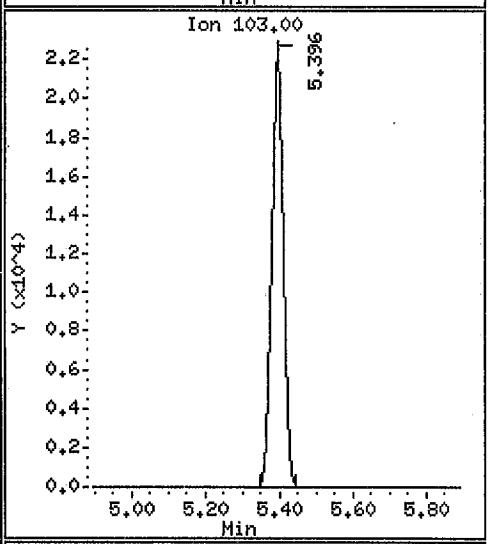


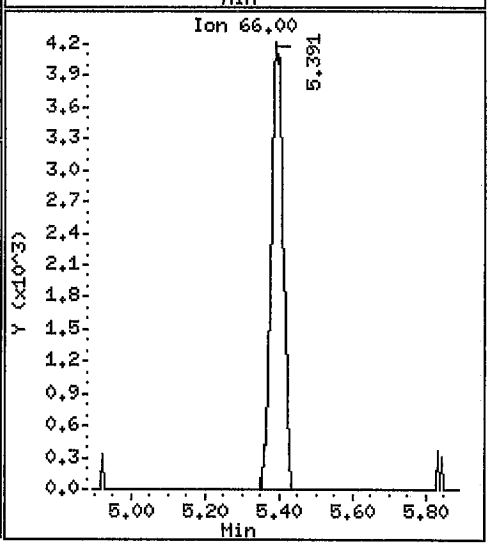












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

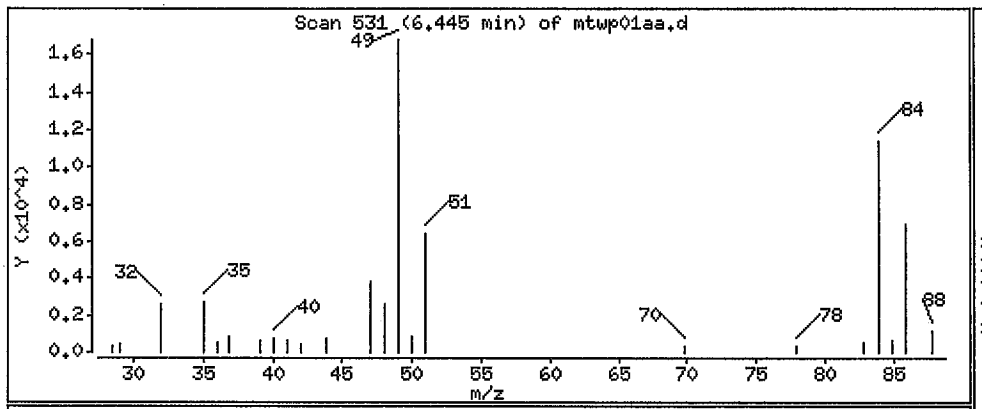
Operator: 7126

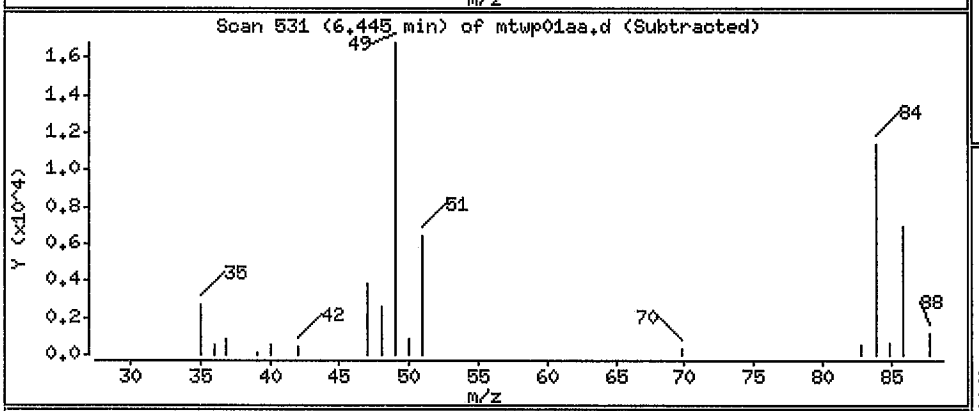
Column phase: Rtx-5

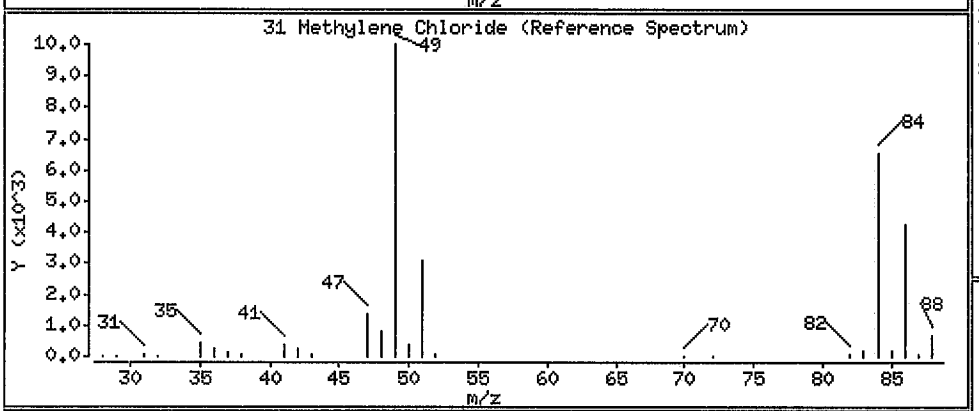
Column diameter: 0.32

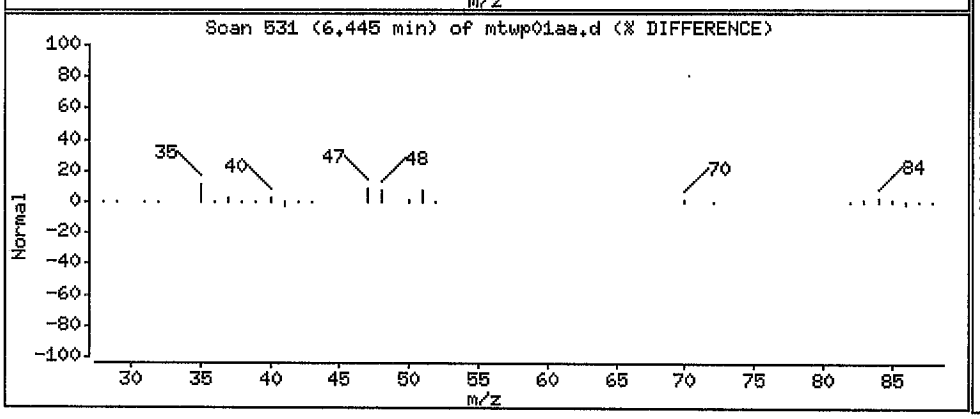
31 Methylene Chloride

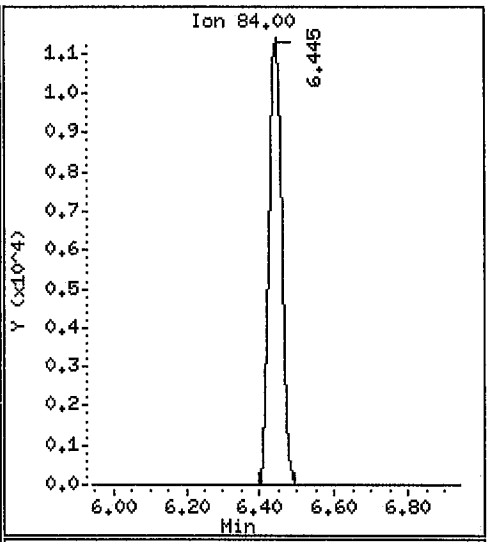
Concentration: 1.067 ppb(v/v)

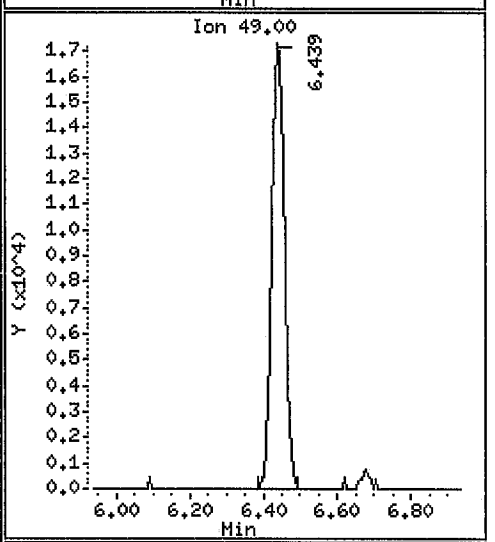


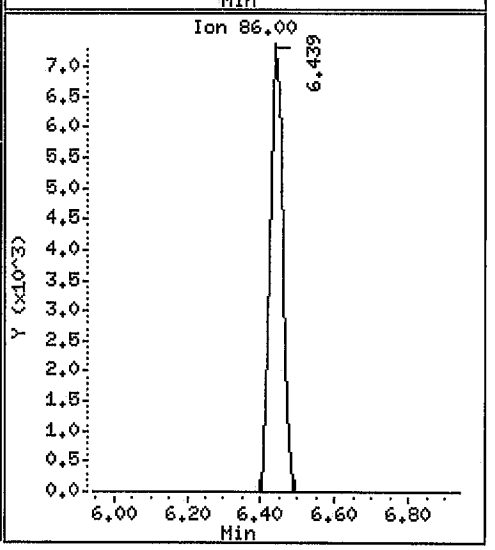












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

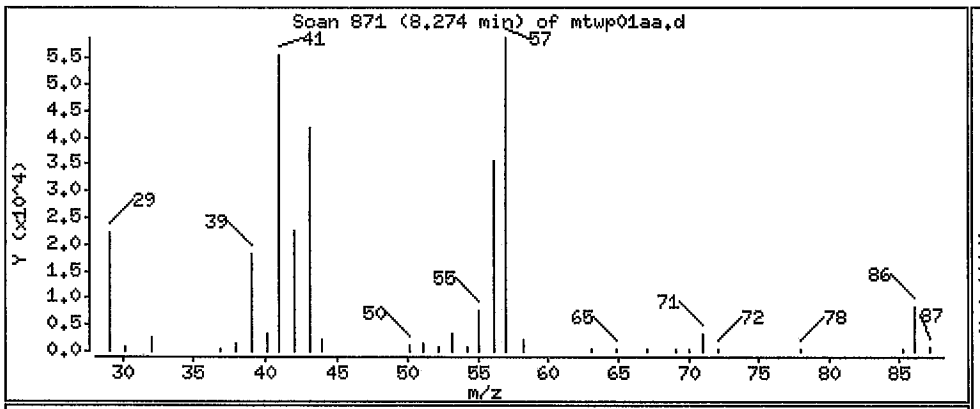
Operator: 7126

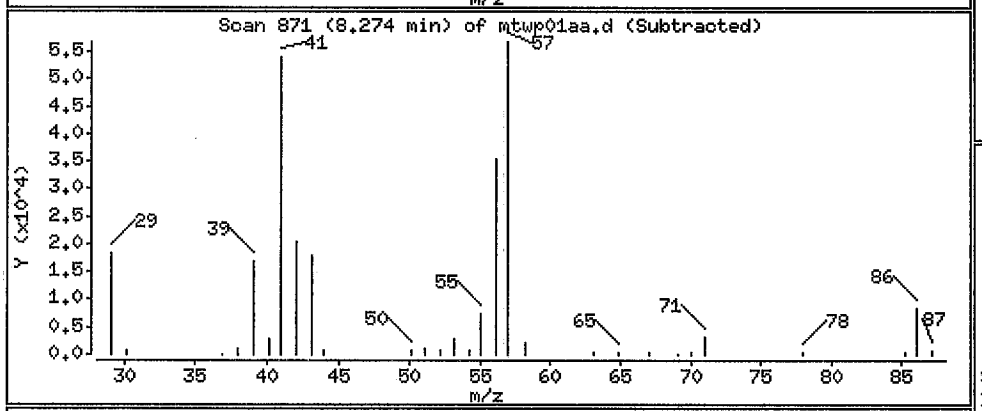
Column phase: Rtx-5

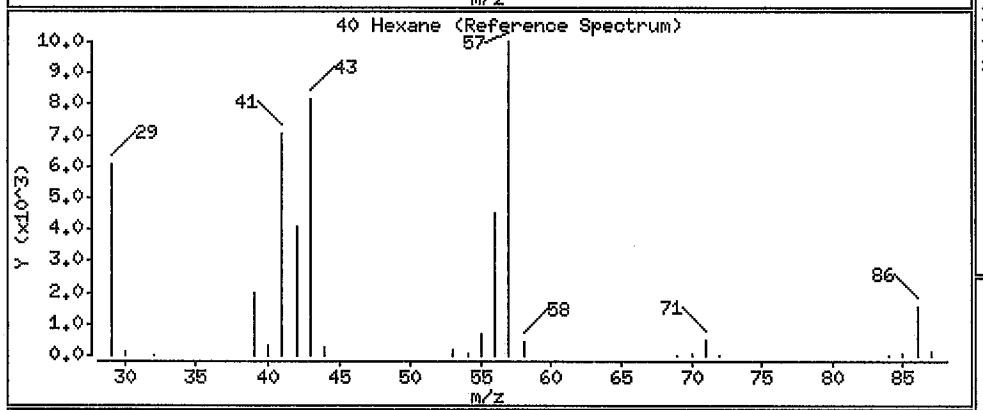
Column diameter: 0.32

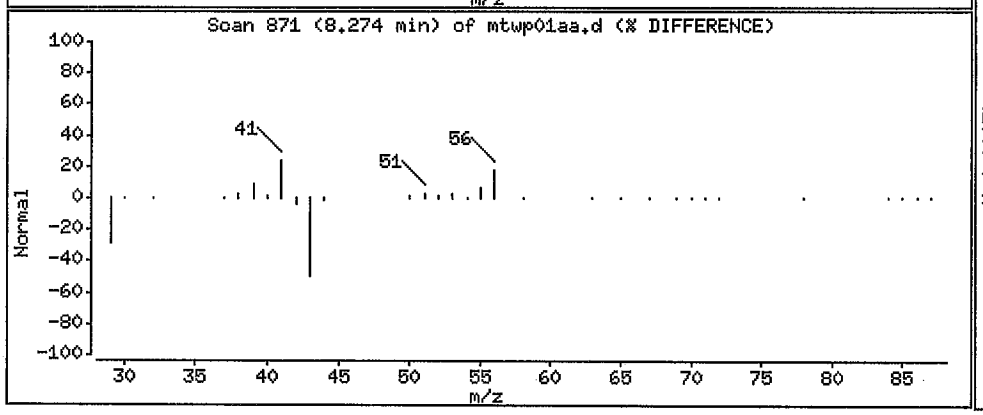
40 Hexane

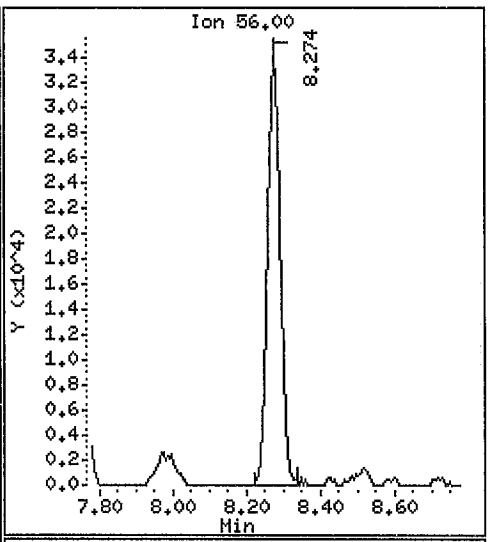
Concentration: 3.210 ppb(v/v)

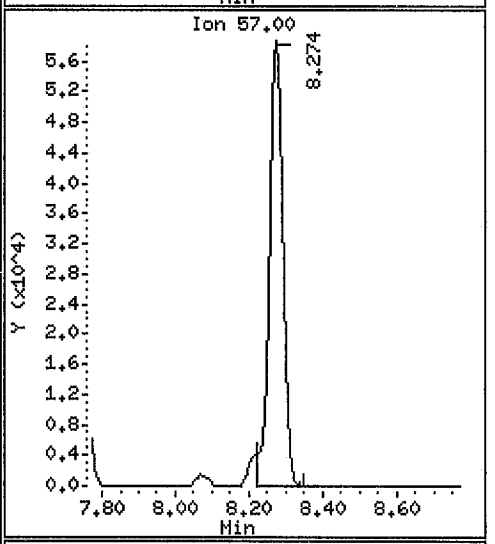


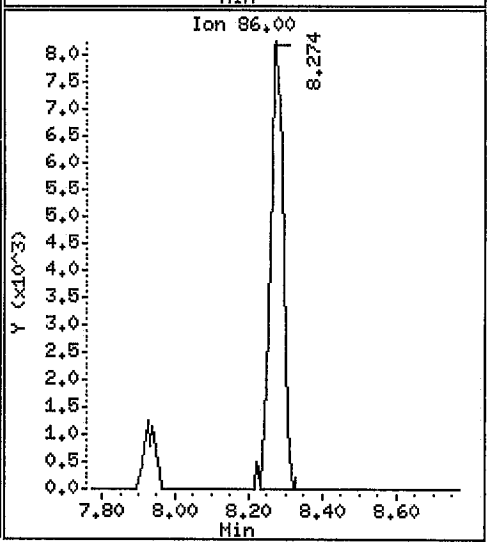












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

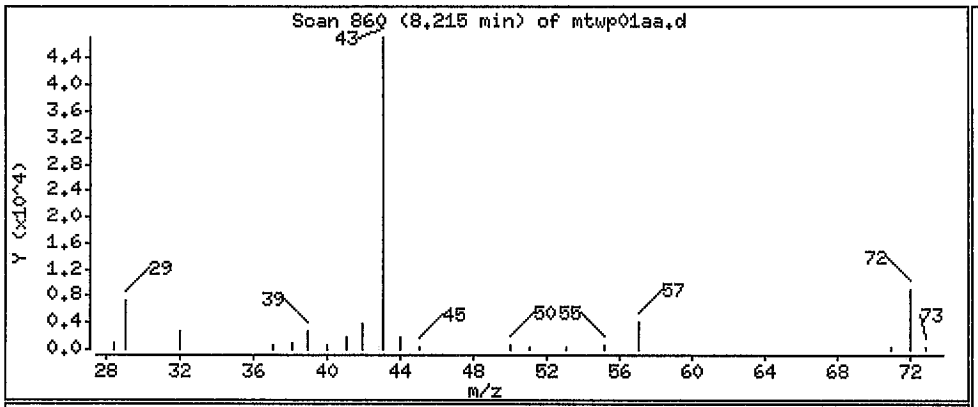
Operator: 7126

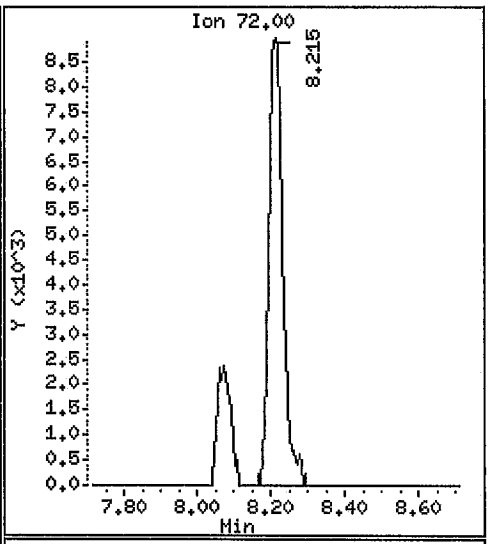
Column phase: Rtx-5

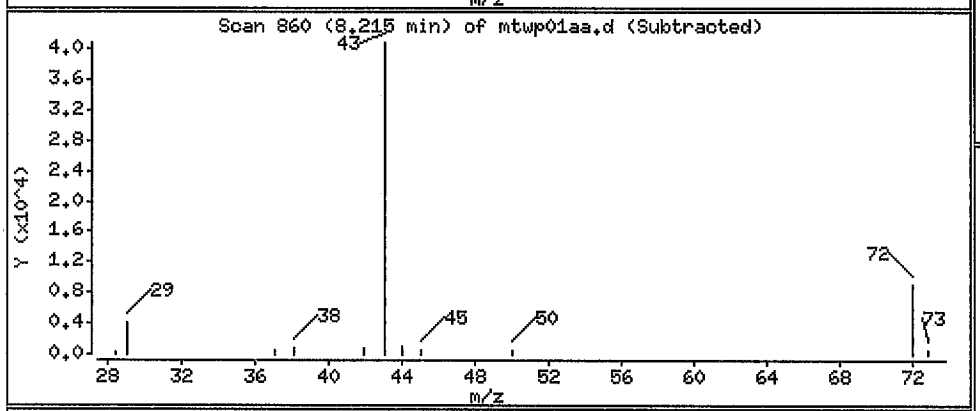
Column diameter: 0.32

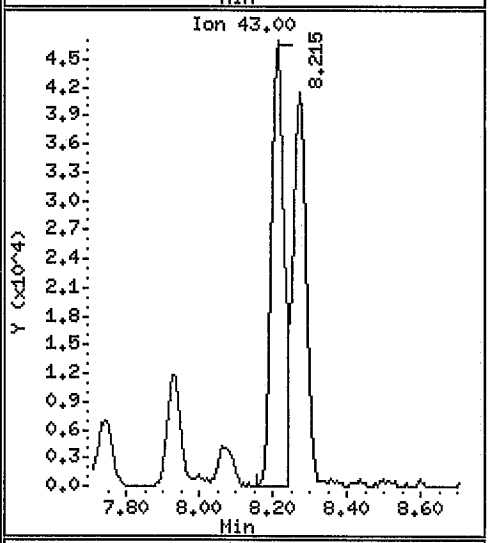
39 2-Butanone

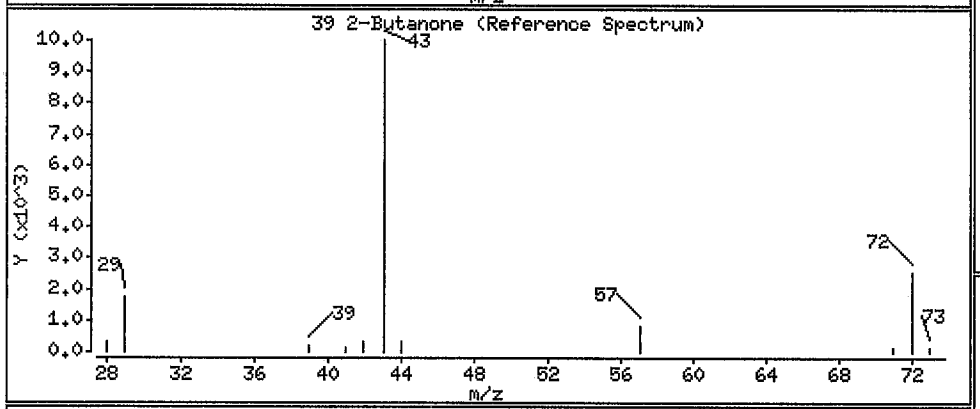
Concentration: 2.169 ppb(v/v)

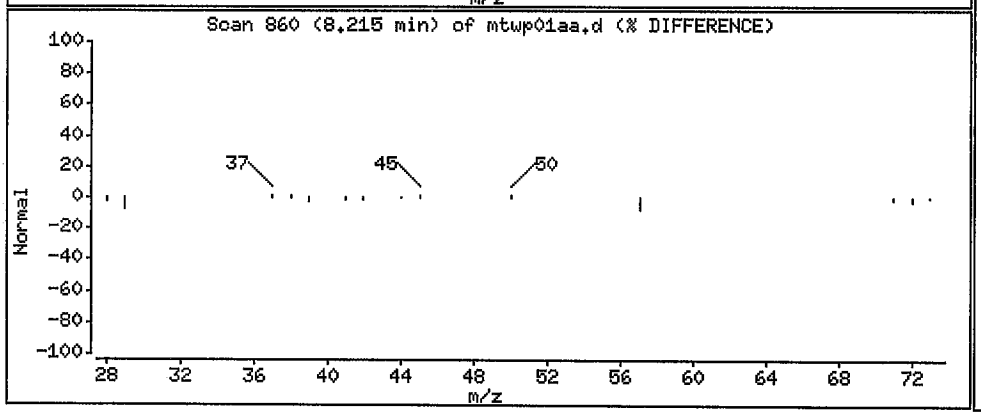


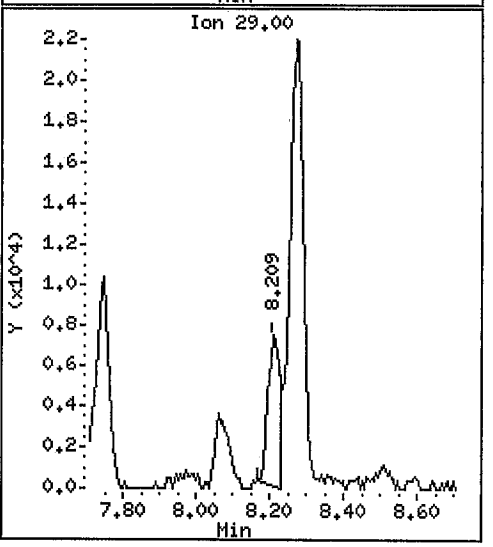












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

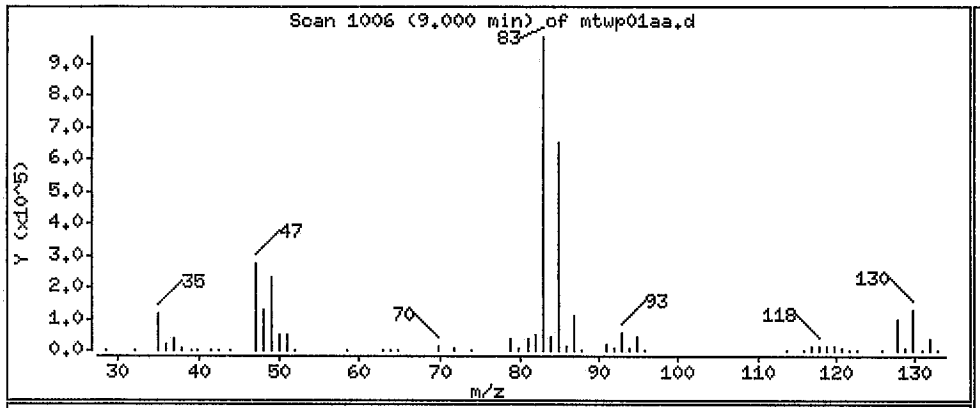
Operator: 7126

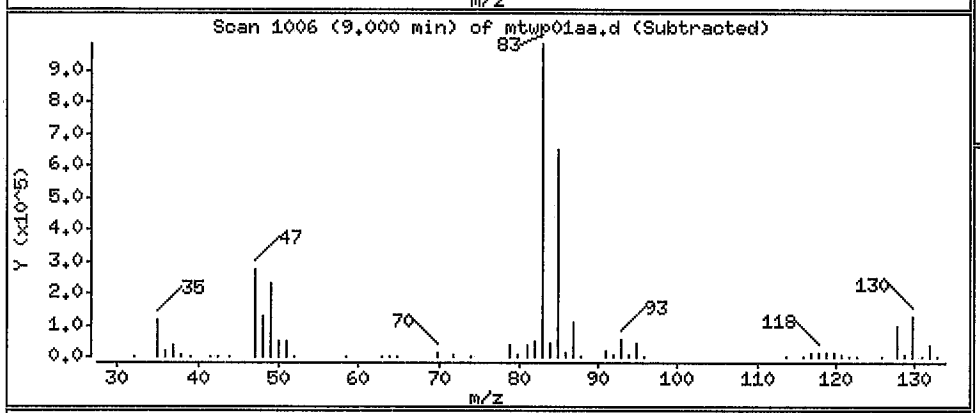
Column phase: Rtx-5

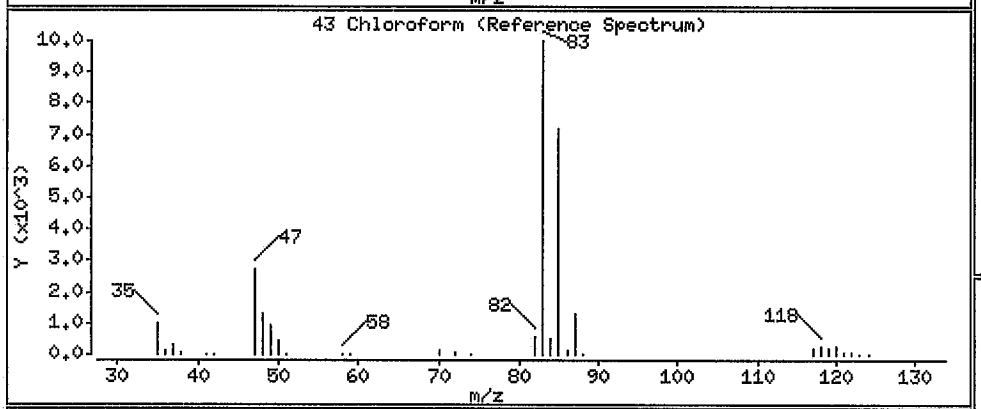
Column diameter: 0.32

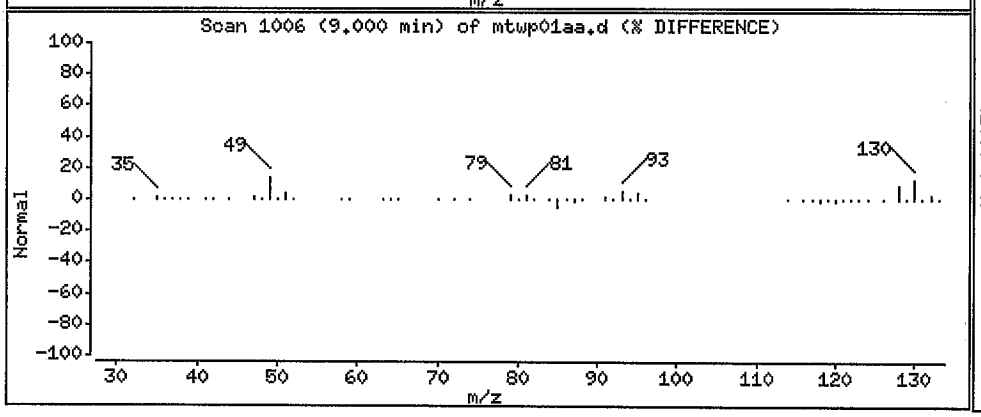
43 Chloroform

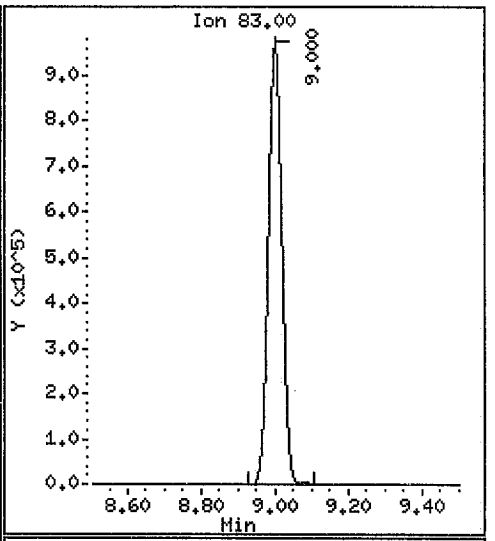
Concentration: 30.59 ppb(v/v)

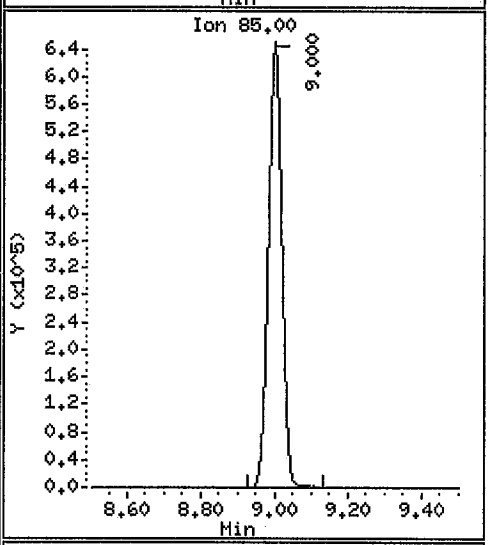


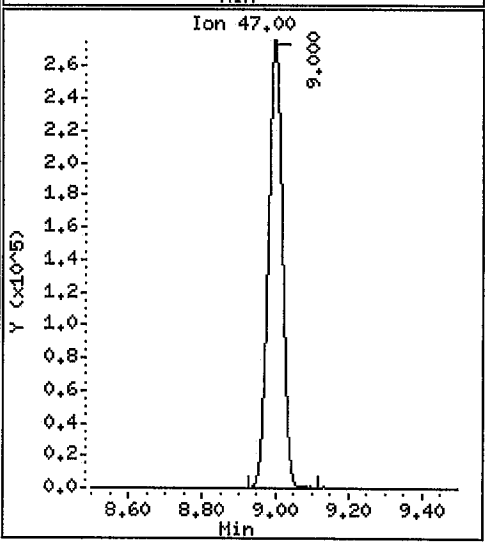












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

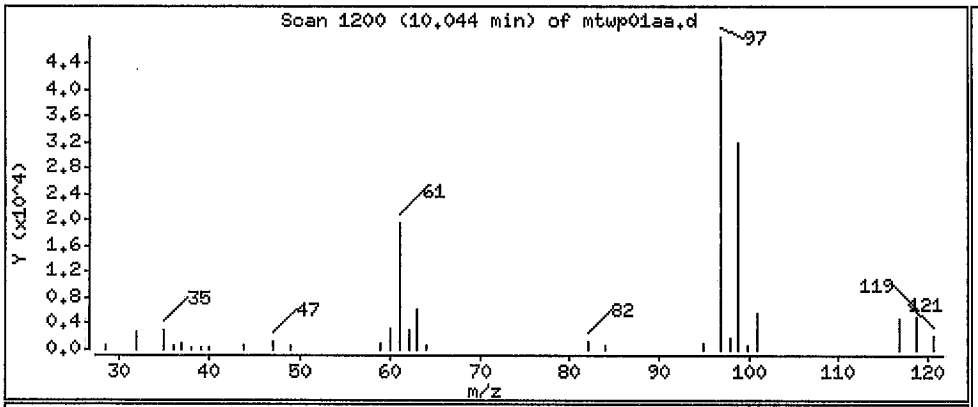
Operator: 7126

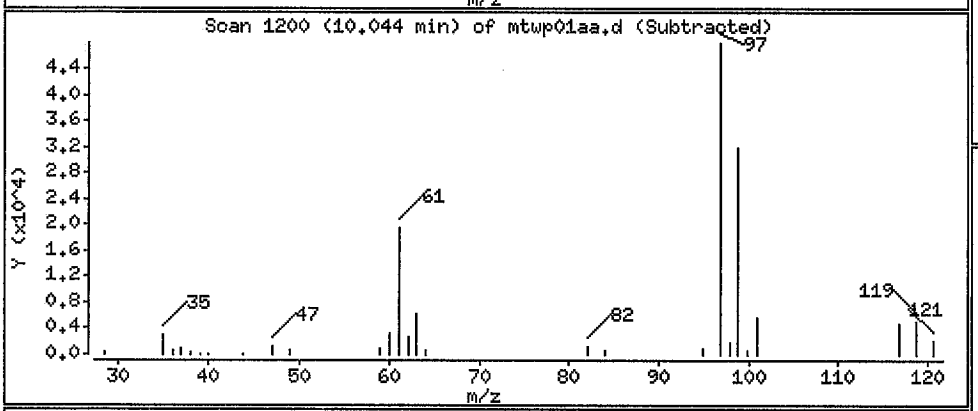
Column phase: Rtx-5

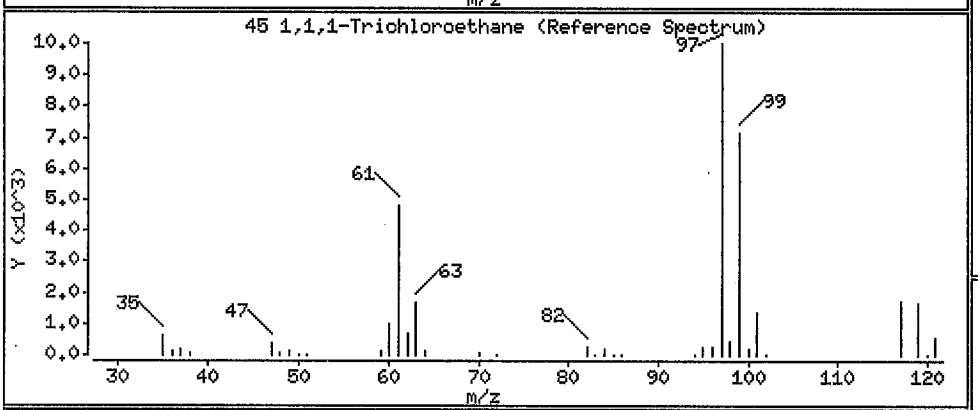
Column diameter: 0.32

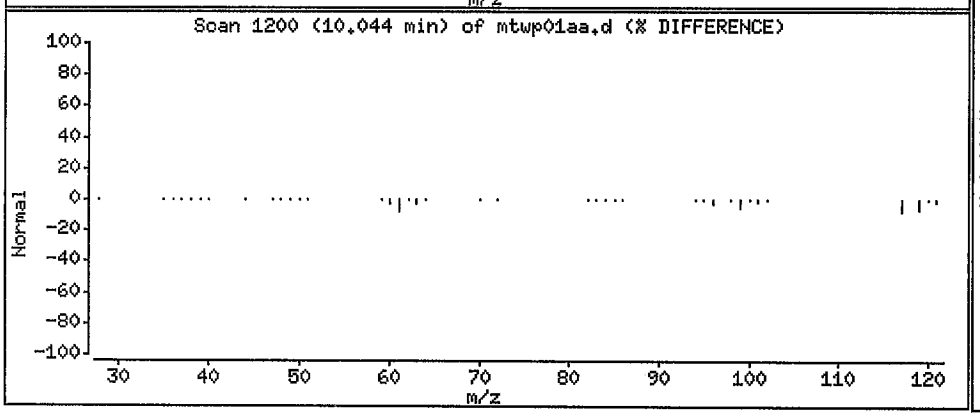
45 1,1,1-Trichloroethane

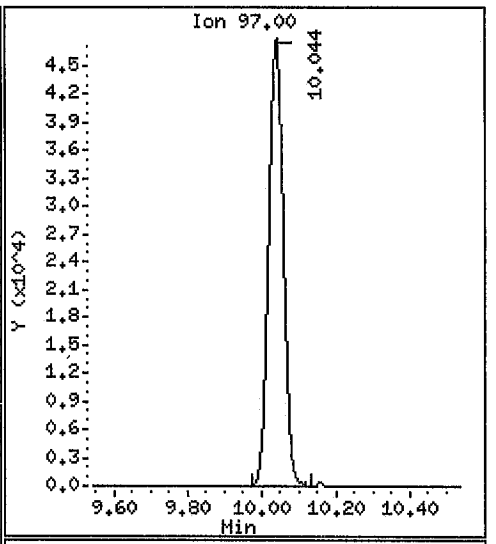
Concentration: 1.342 ppb(v/v)

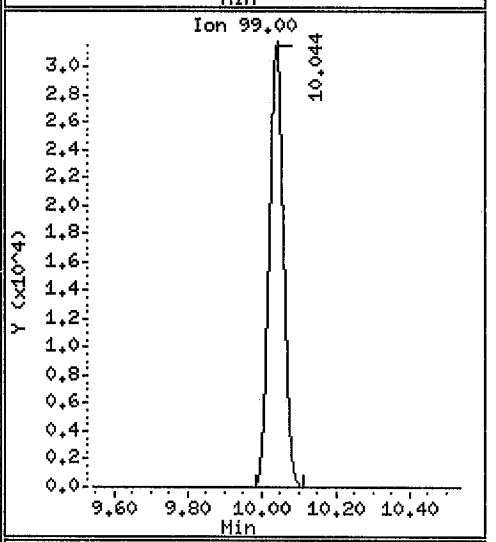


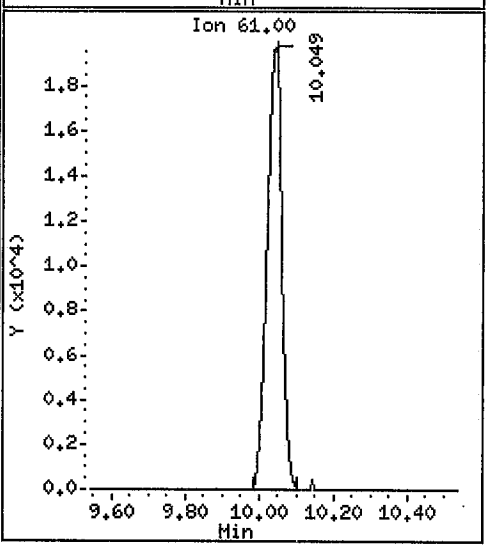












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

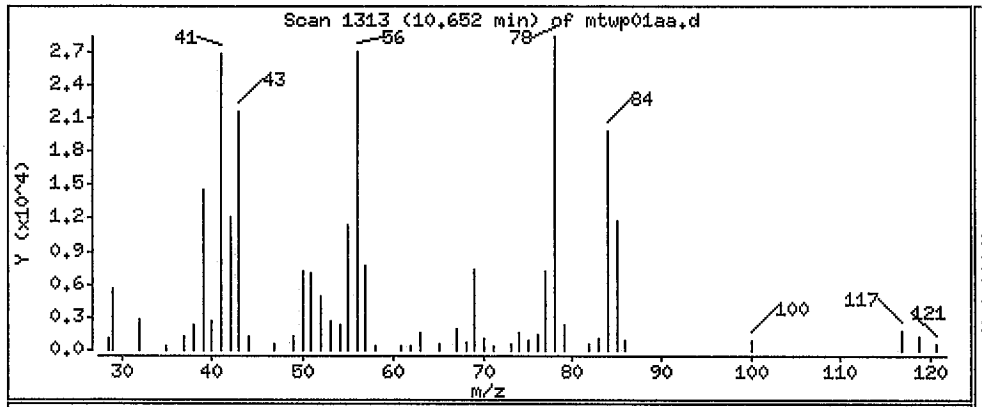
Operator: 7126

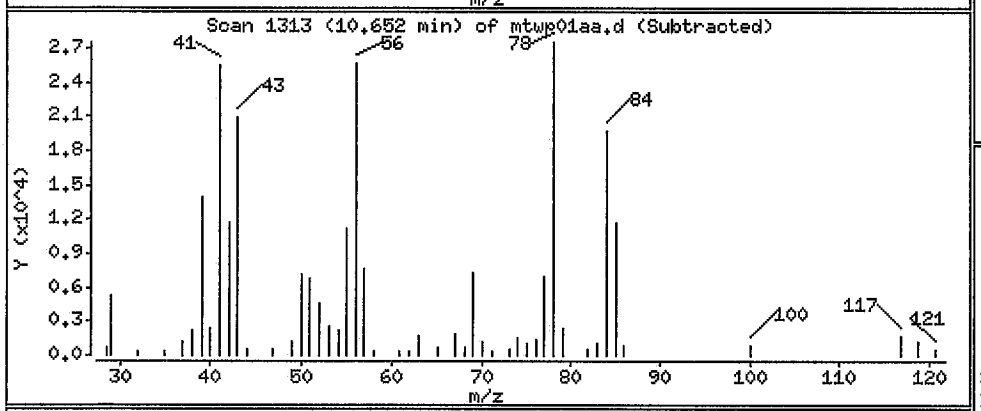
Column phase: Rtx-5

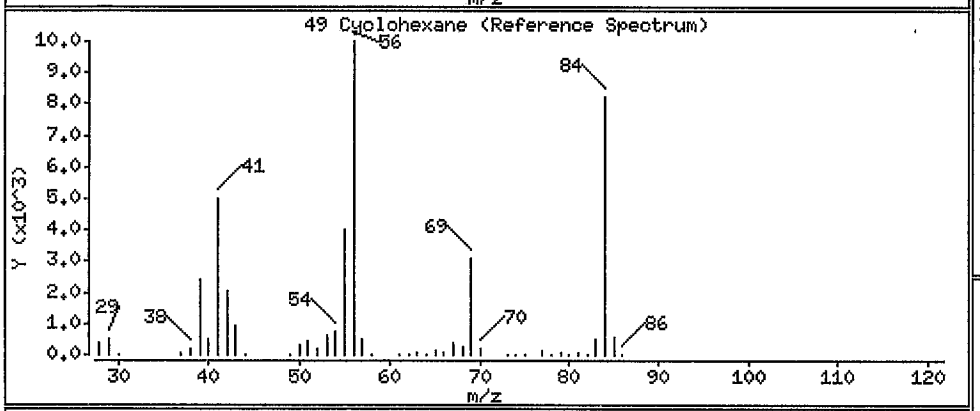
Column diameter: 0.32

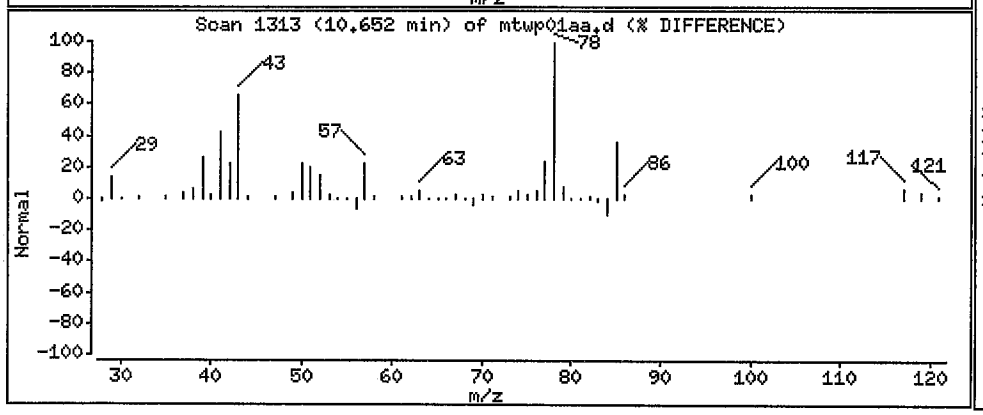
49 Cyclohexane

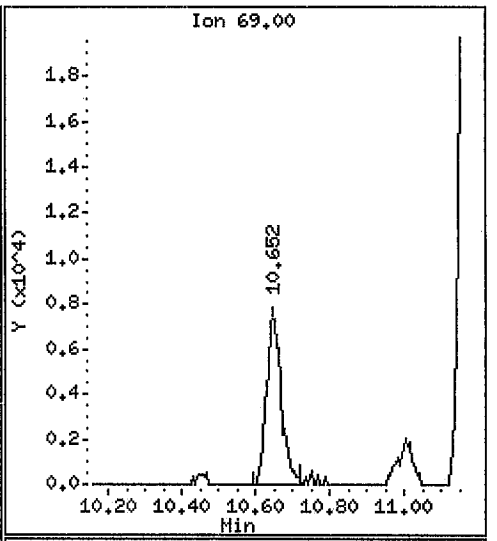
Concentration: 1.364 ppb(v/v)

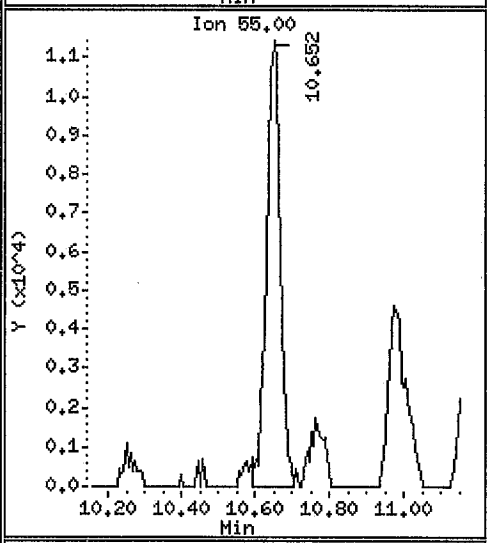


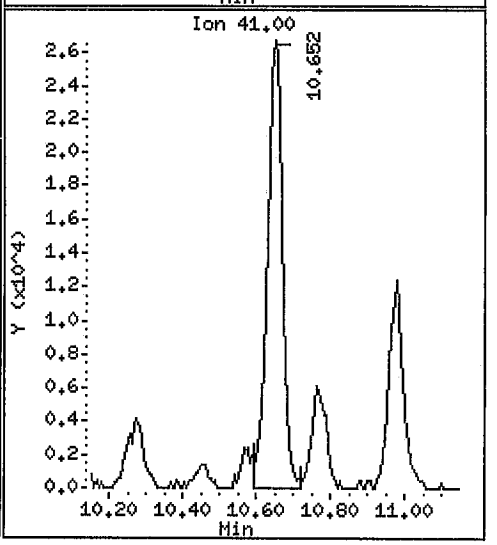












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

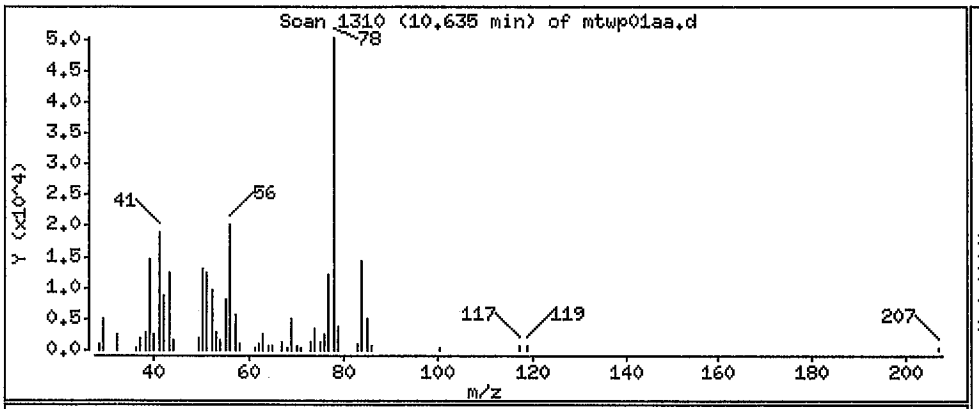
Operator: 7126

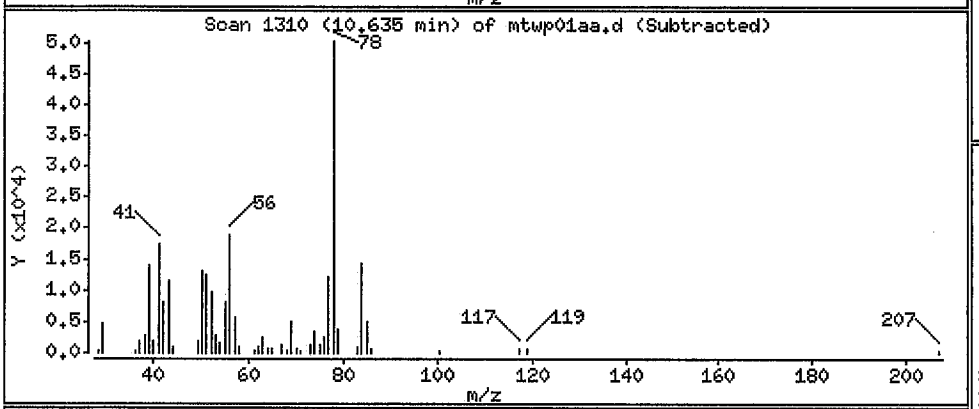
Column phase: Rtx-5

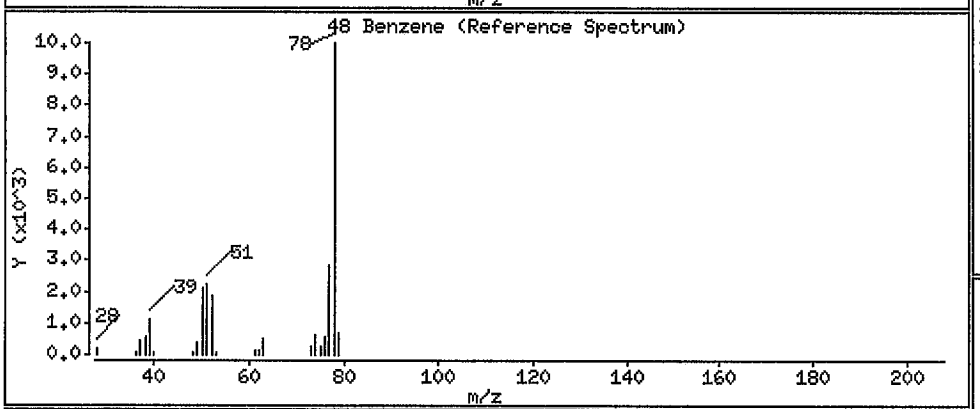
Column diameter: 0.32

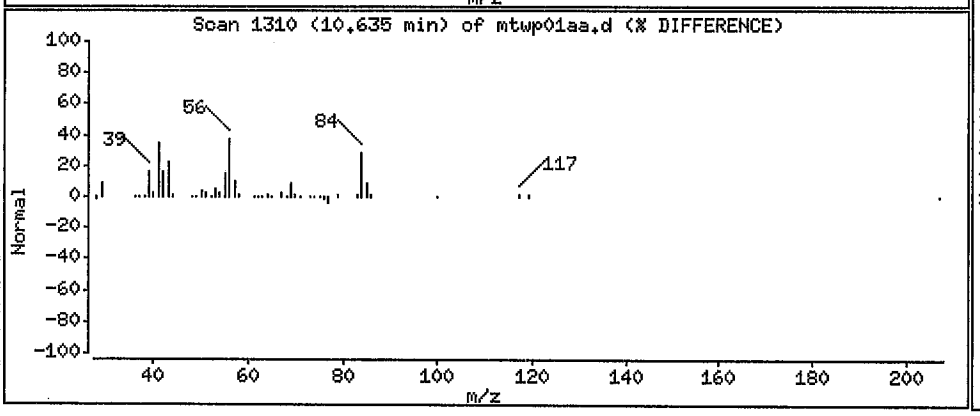
48 Benzene

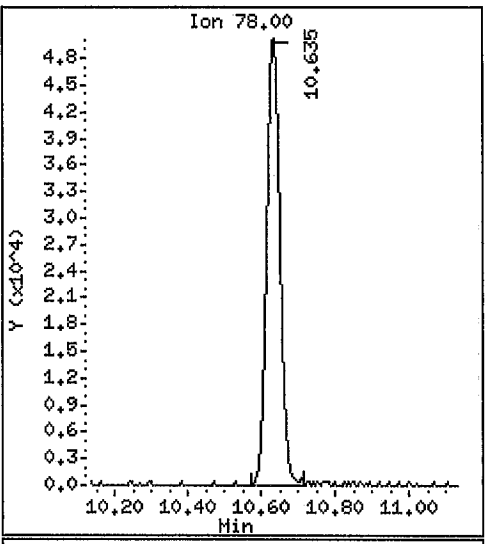
Concentration: 1.472 ppb(v/v)

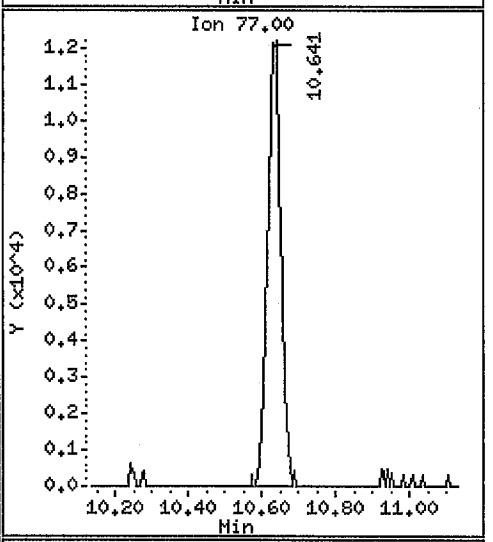


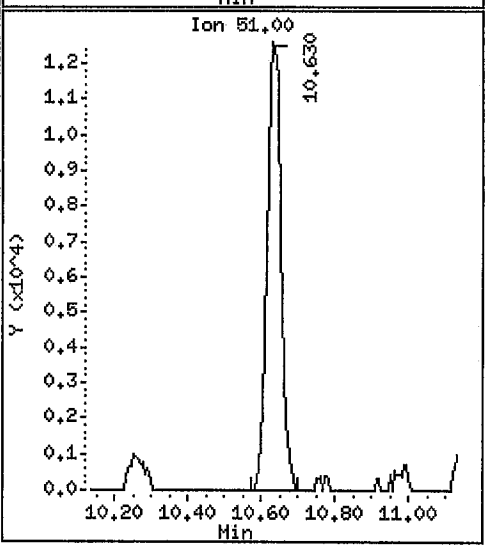












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

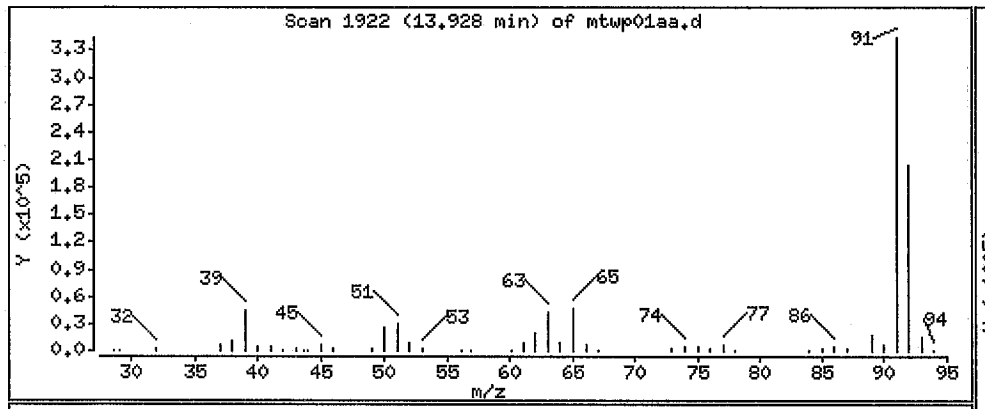
Operator: 7126

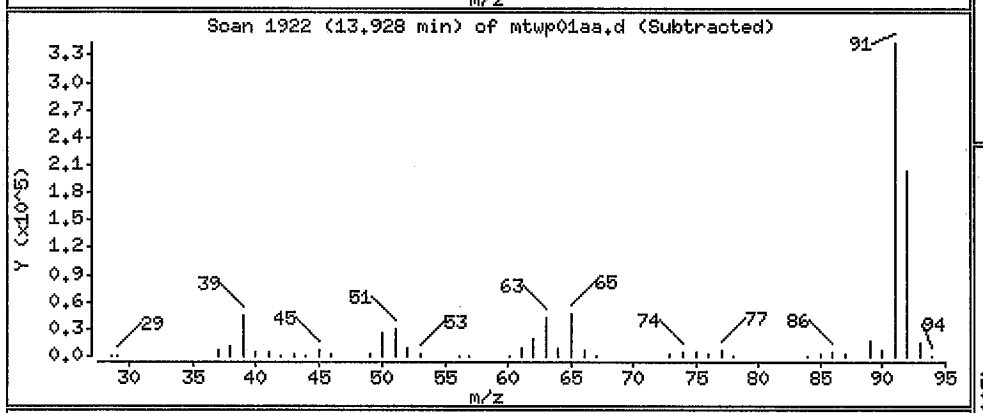
Column phase: Rtx-5

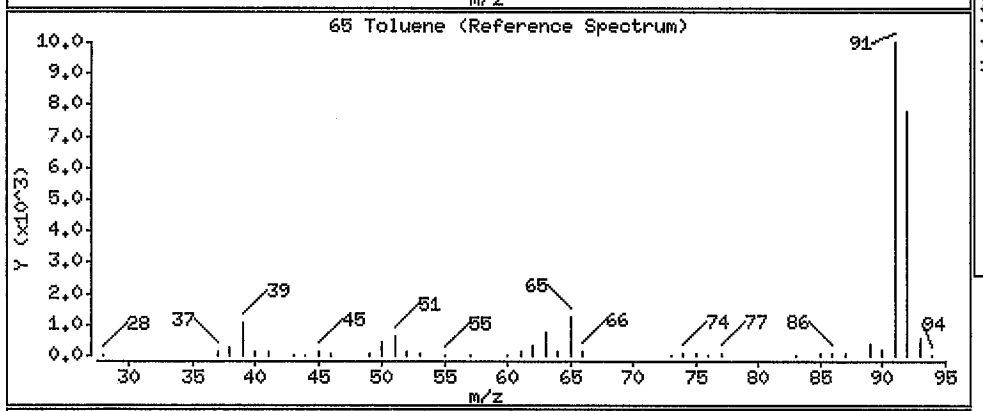
Column diameter: 0.32

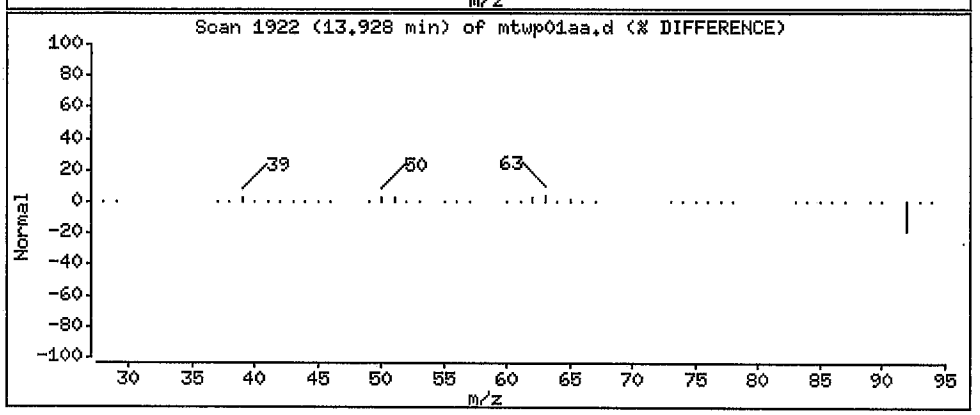
65 Toluene

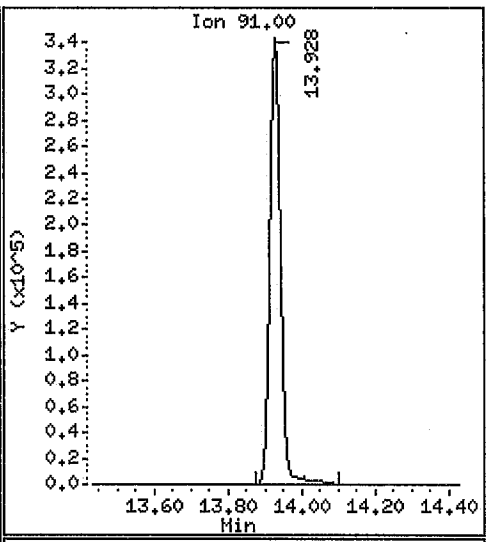
Concentration: 7.689 ppb(v/v)

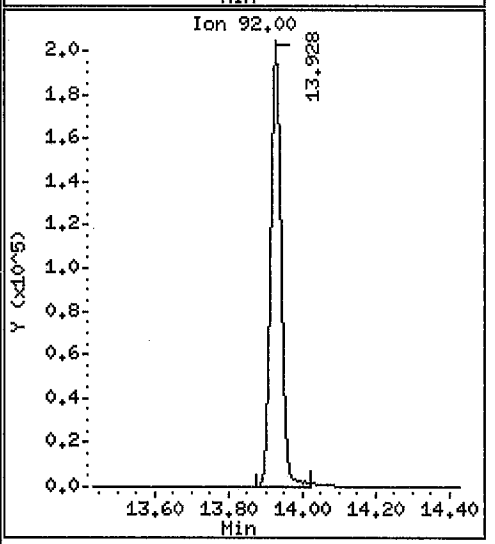












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

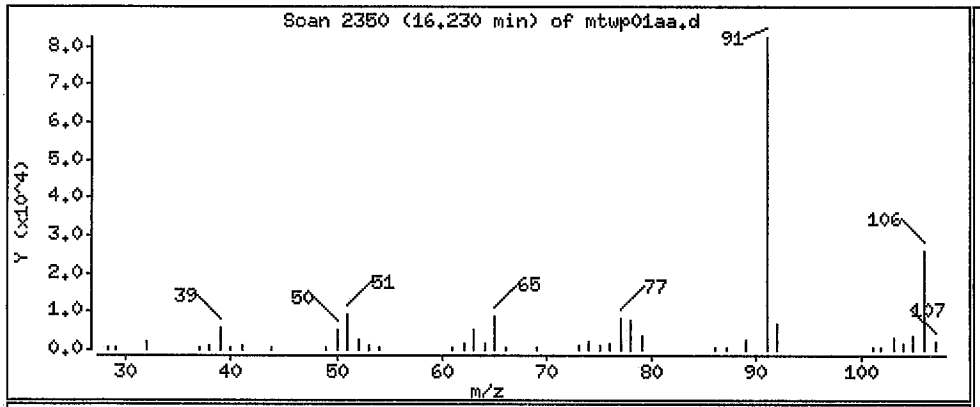
Operator: 7126

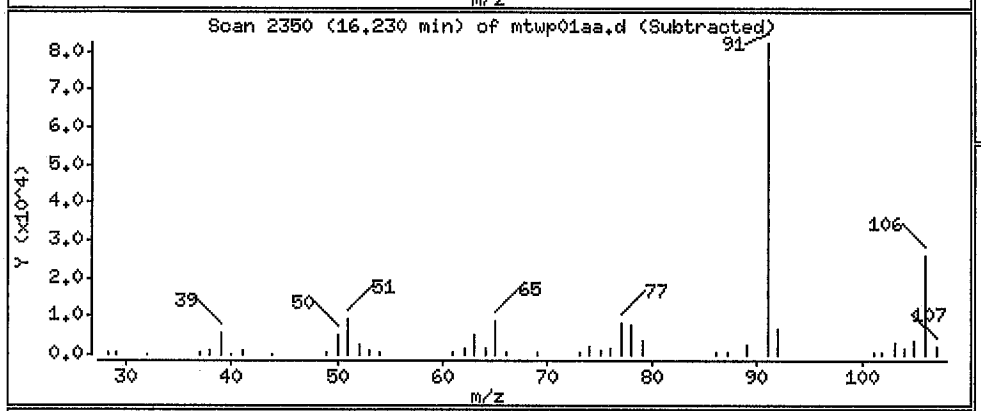
Column phase: Rtx-5

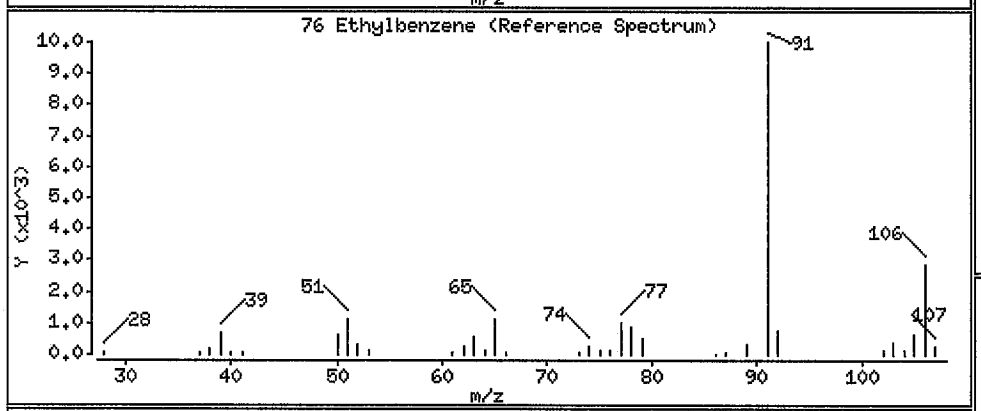
Column diameter: 0.32

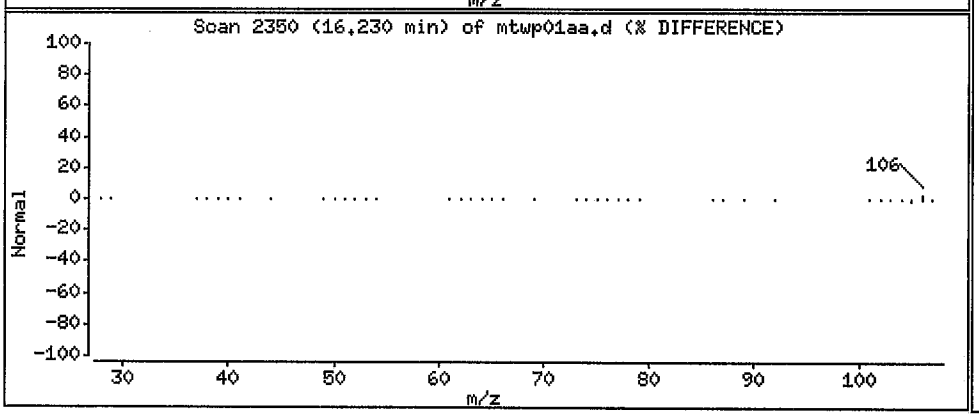
76 Ethylbenzene

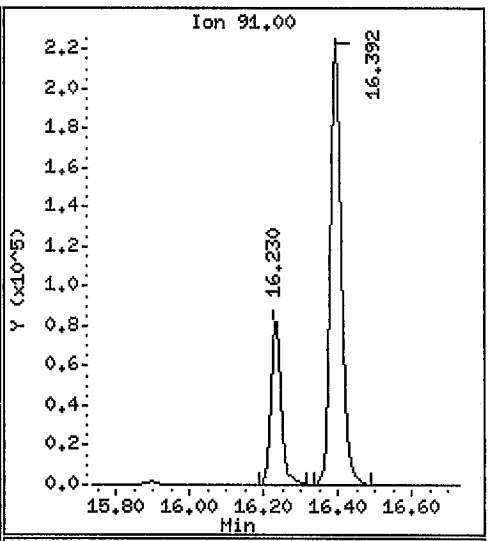
Concentration: 1.376 ppb(v/v)

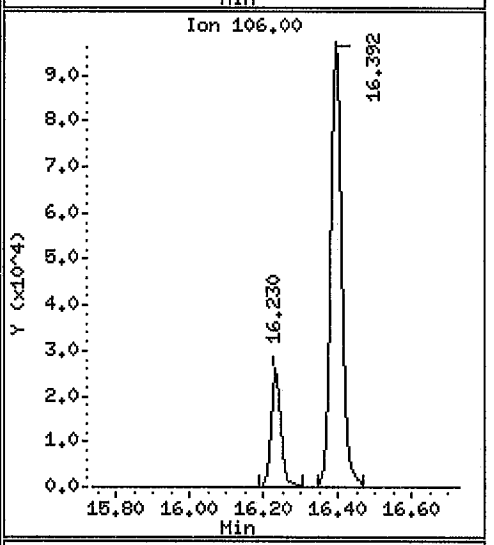


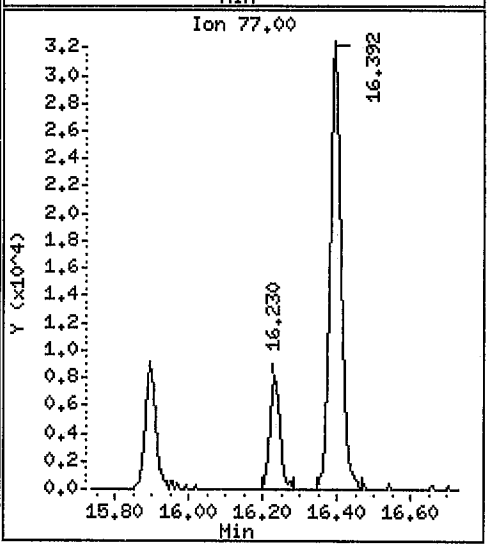












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

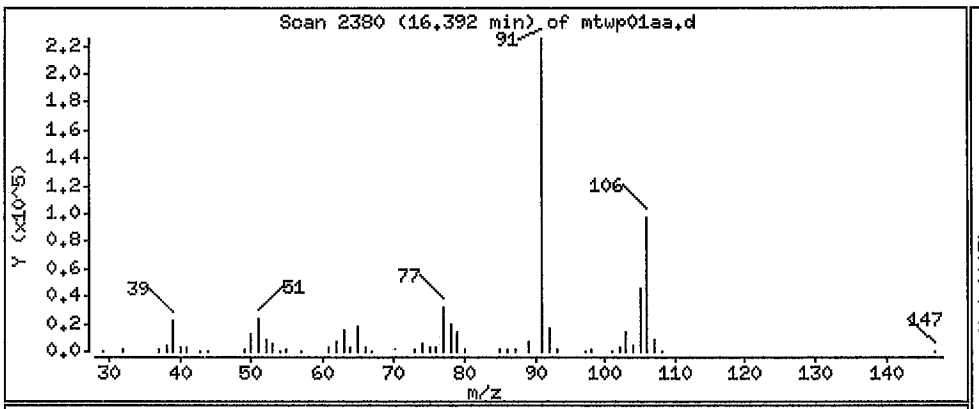
Operator: 7126

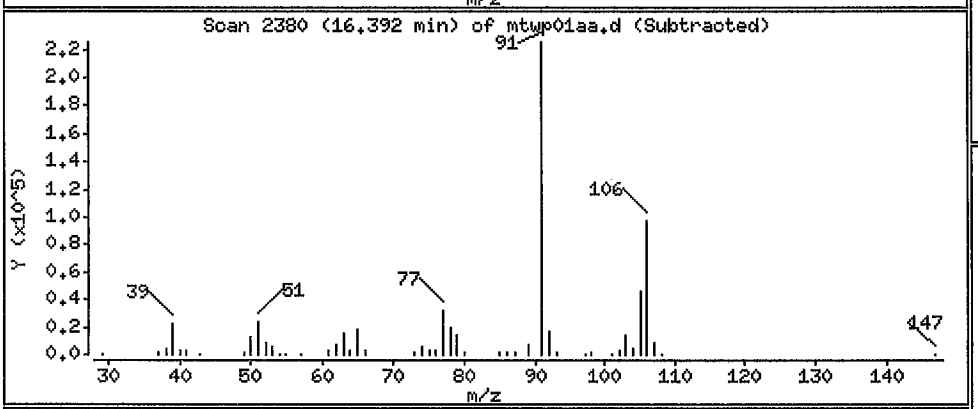
Column phase: Rtx-5

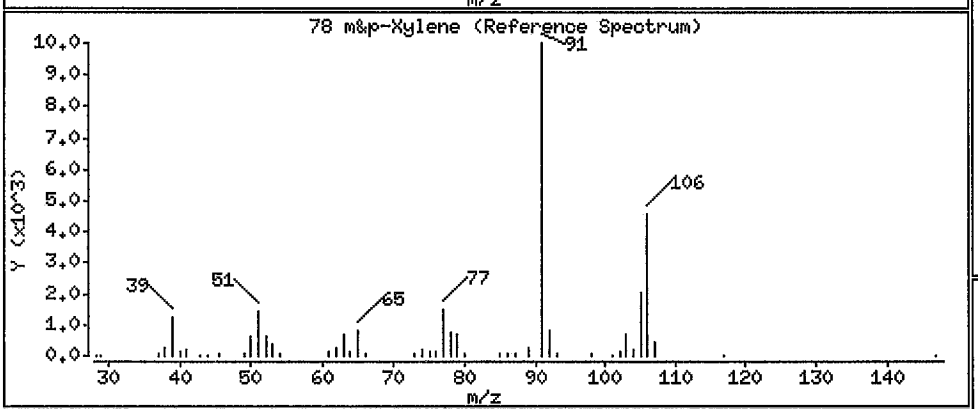
Column diameter: 0.32

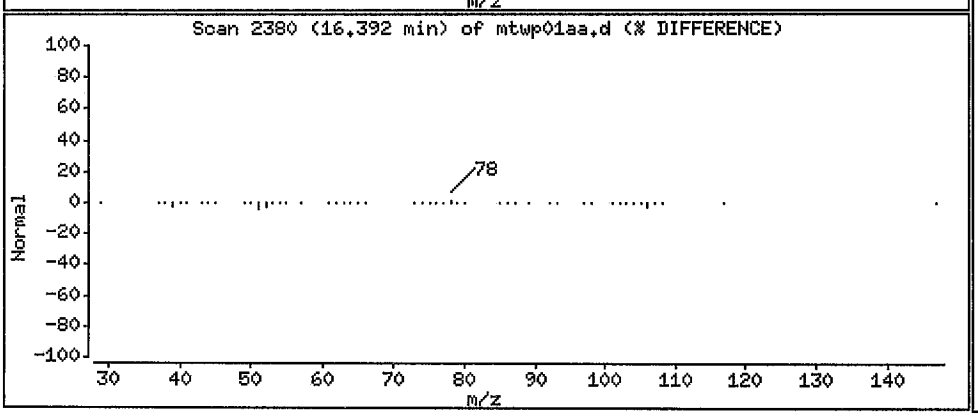
78 m&p-Xylene

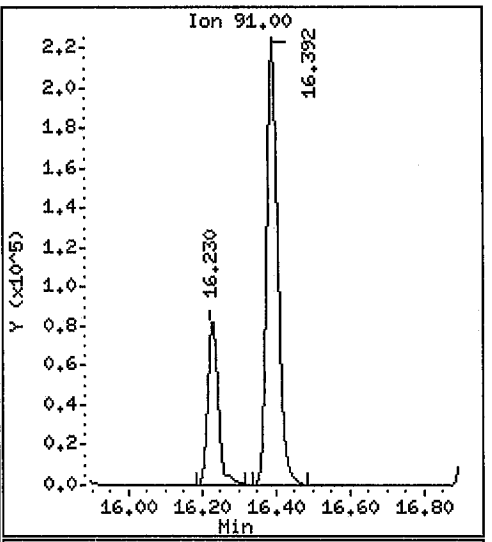
Concentration: 5.035 ppb(v/v)

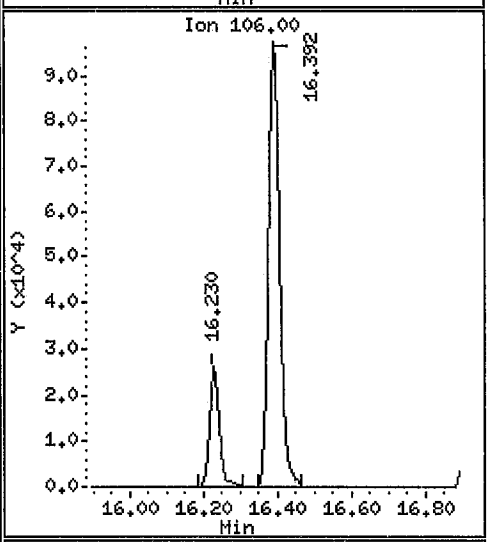


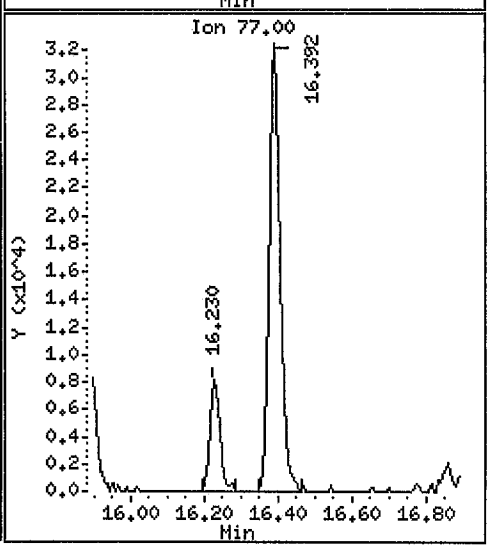












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

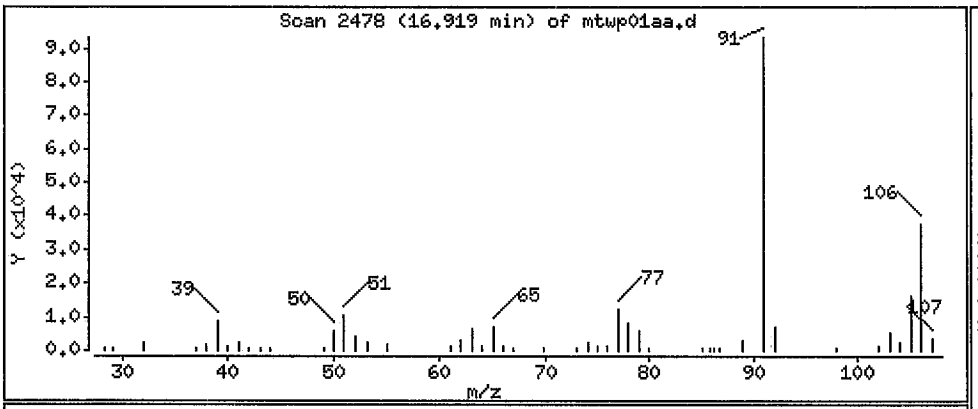
Operator: 7126

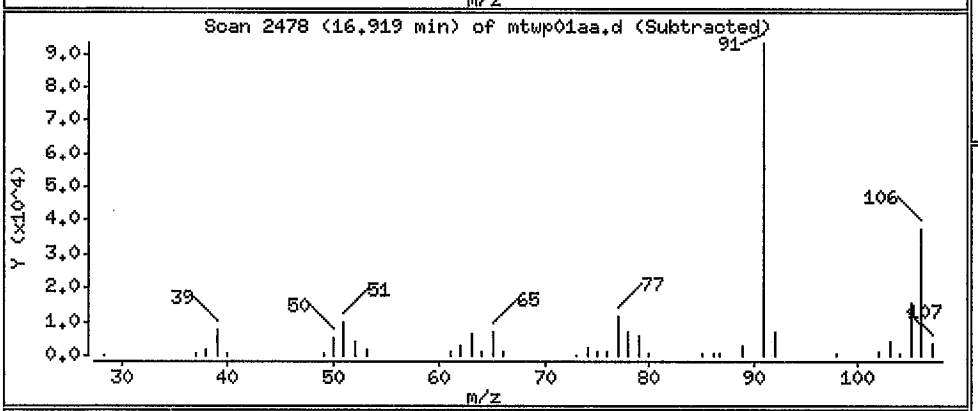
Column phase: Rtx-5

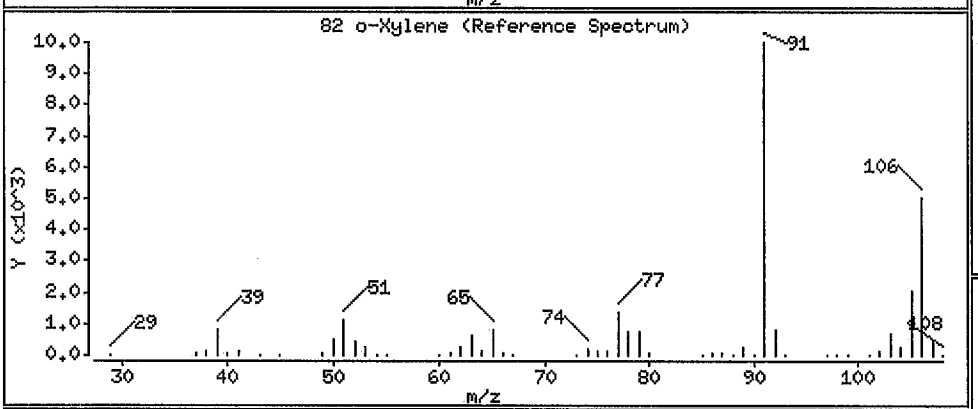
Column diameter: 0.32

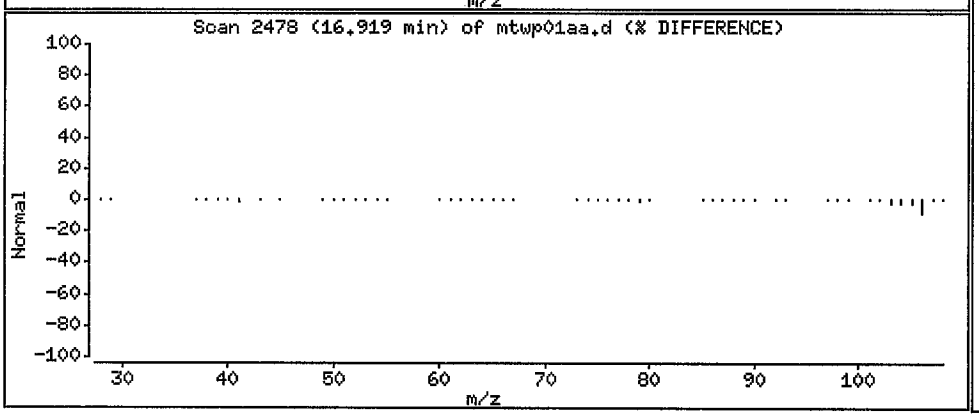
82 o-Xylene

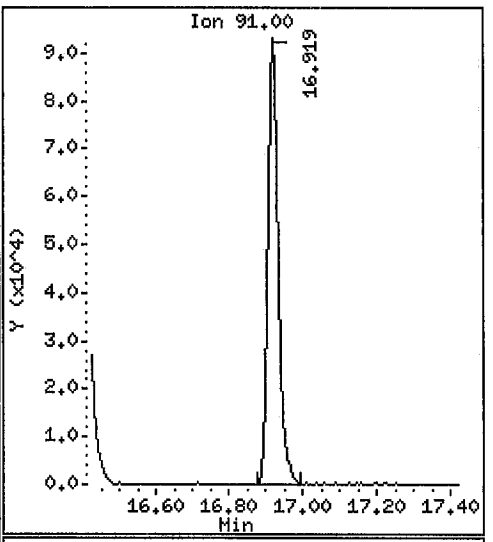
Concentration: 1.879 ppb(v/v)

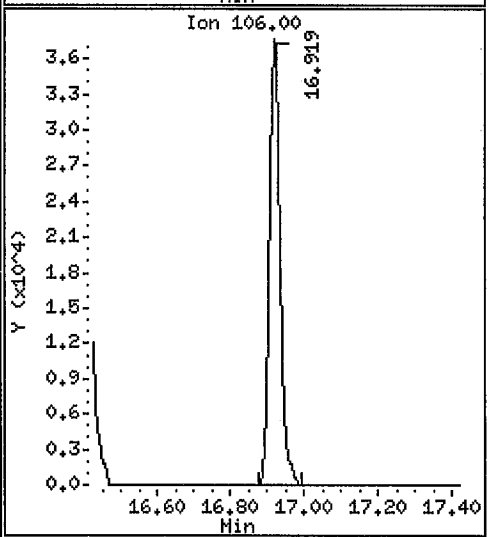


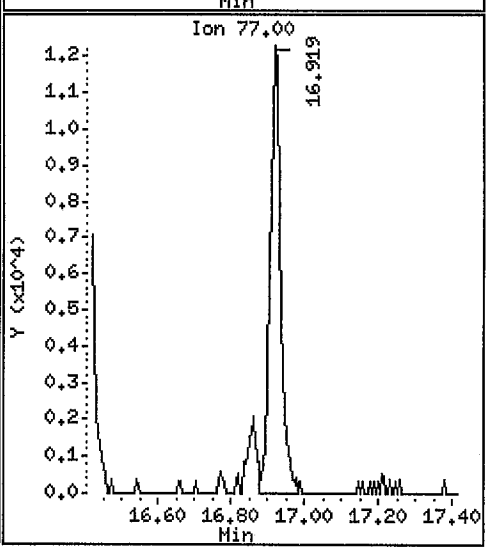












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

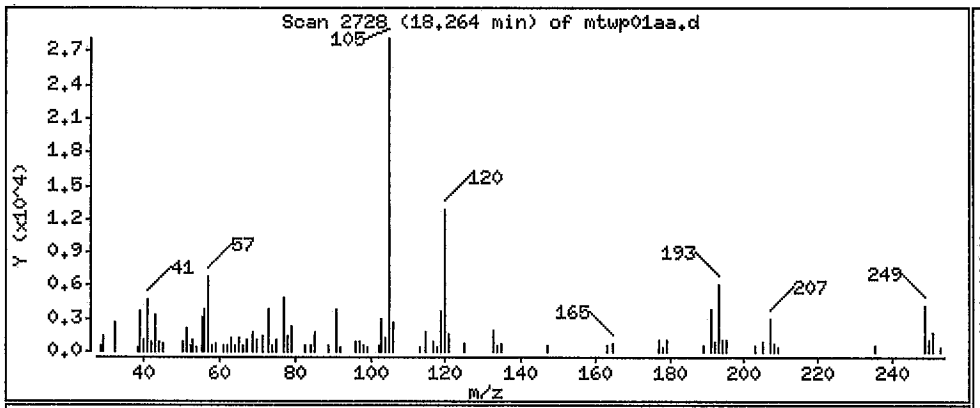
Operator: 7126

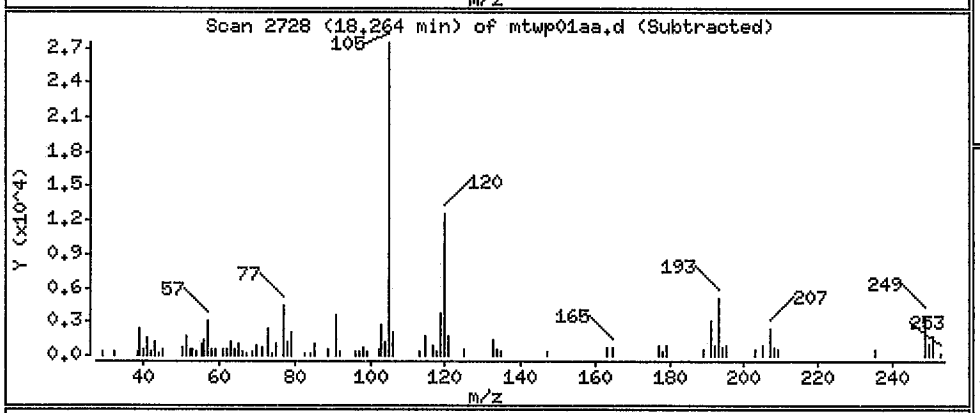
Column phase: Rtx-5

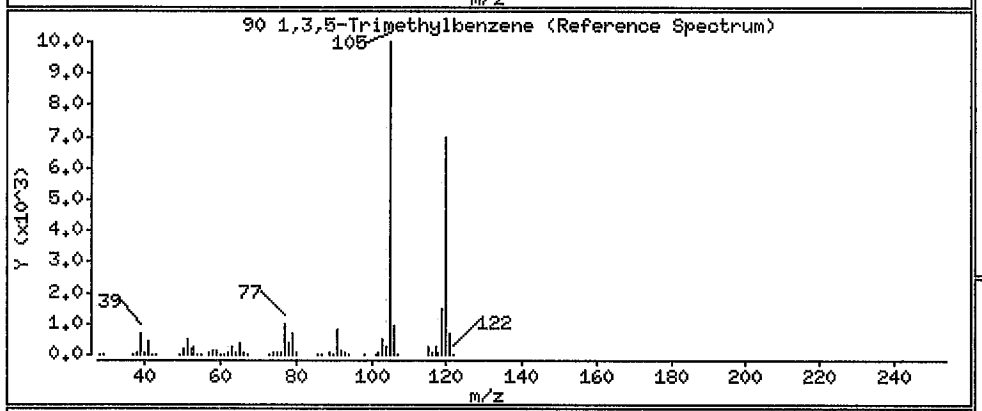
Column diameter: 0.32

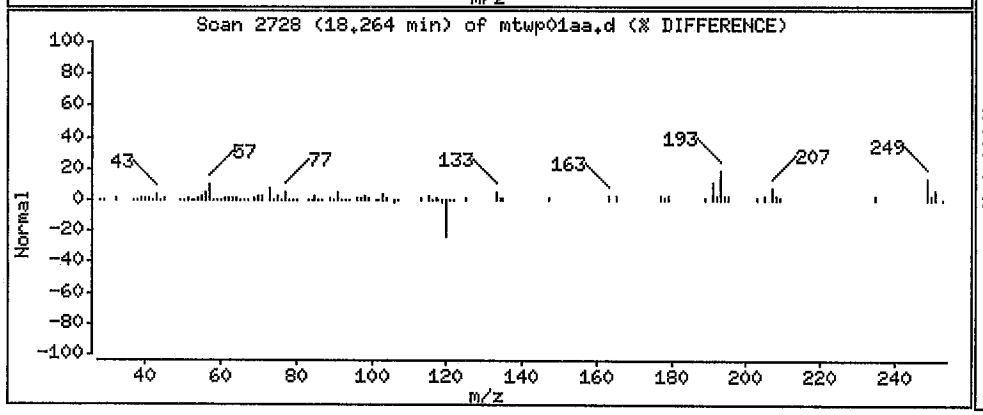
90 1,3,5-Trimethylbenzene

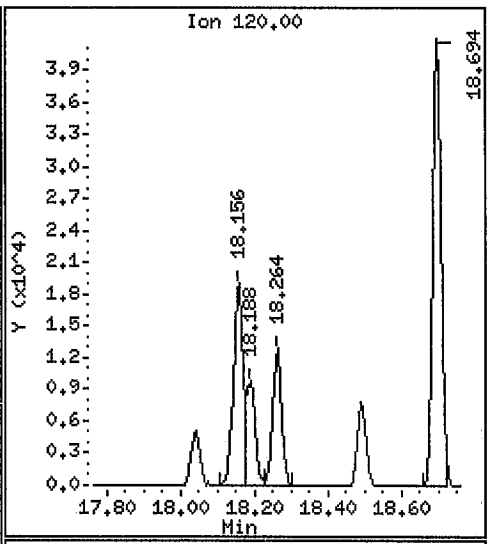
Concentration: 0.4025 ppb(v/v)

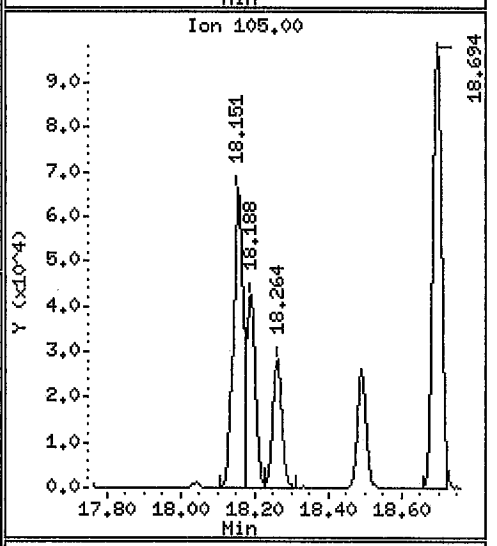


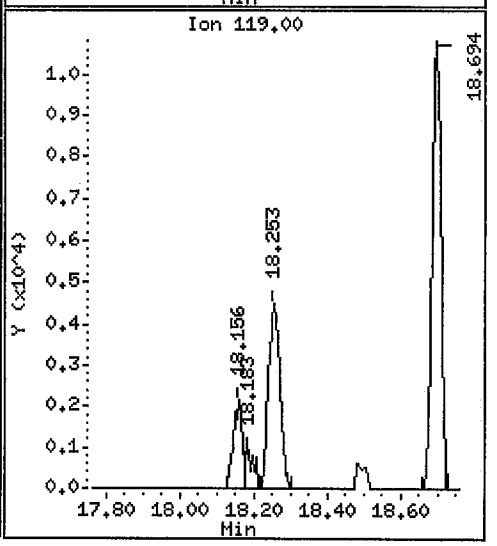












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

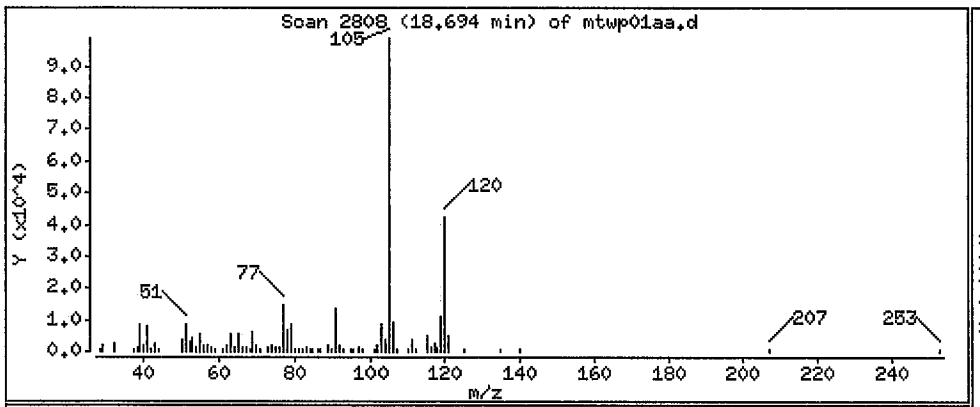
Operator: 7126

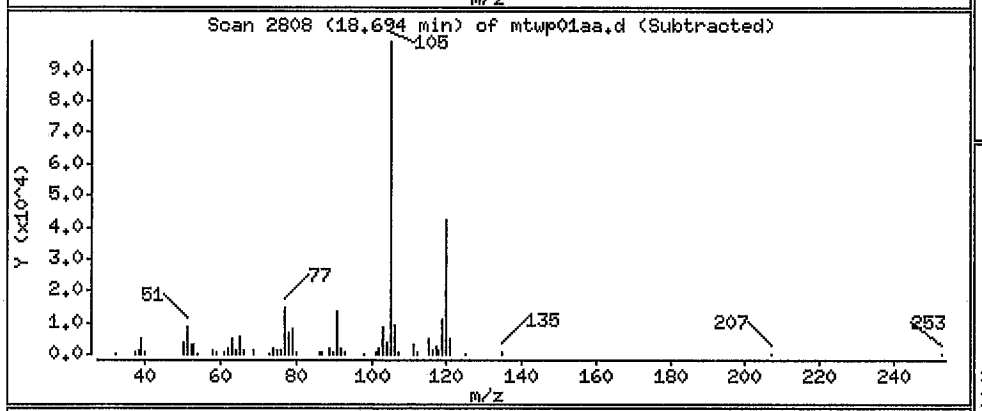
Column phase: Rtx-5

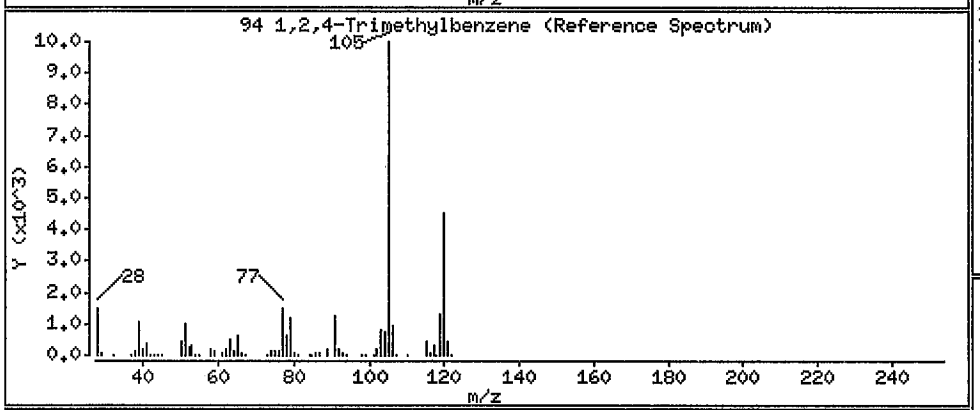
Column diameter: 0.32

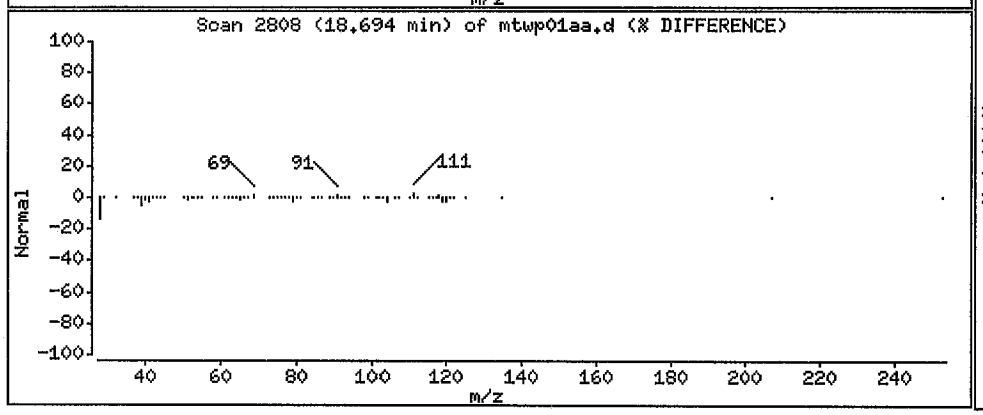
94 1,2,4-Trimethylbenzene

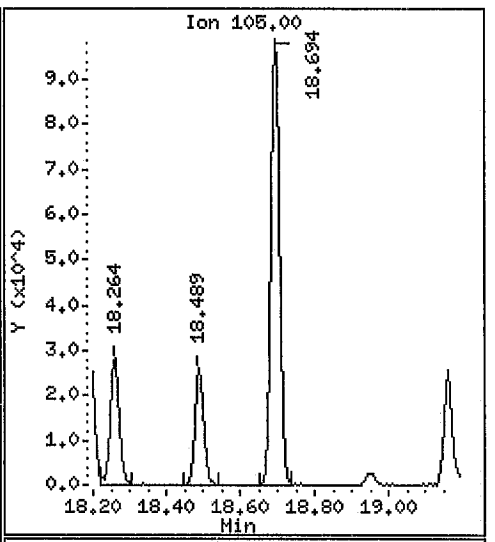
Concentration: 1.604 ppb(v/v)

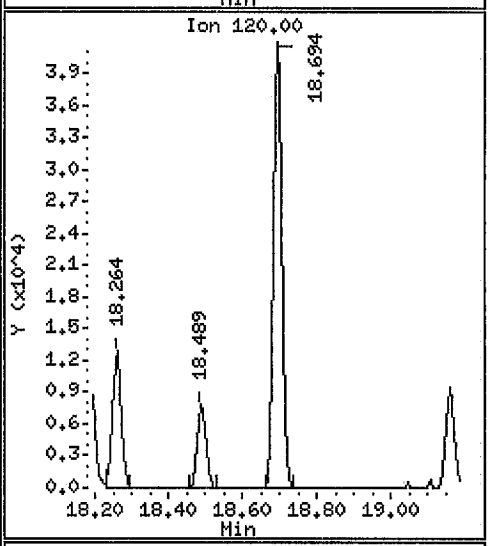


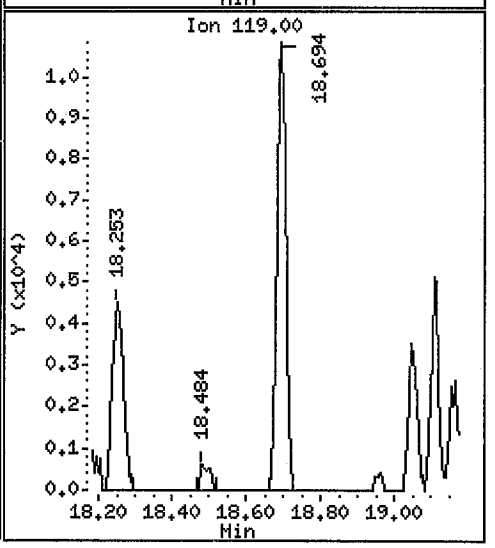












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp01aa.d

Date : 05-JUN-2012 11:49

Client ID: HOUSE # 4 SS

Instrument: mj.i

Sample Info: ,3.7,0,,,

Purge Volume: 500.0

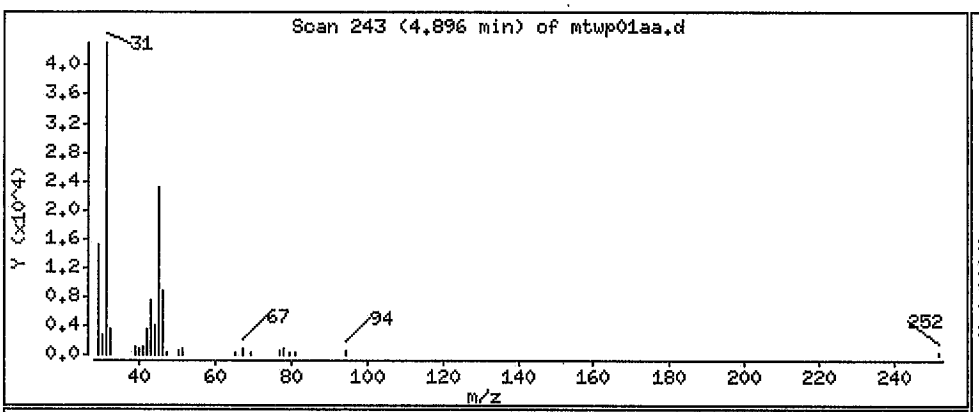
Operator: 7126

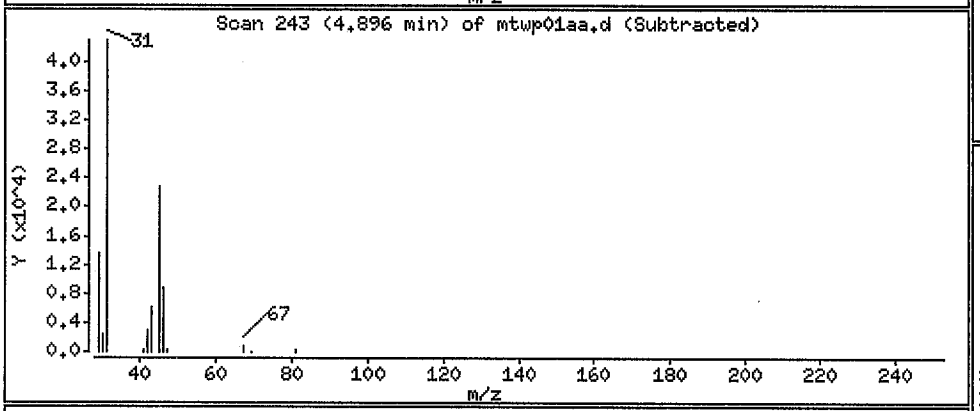
Column phase: Rtx-5

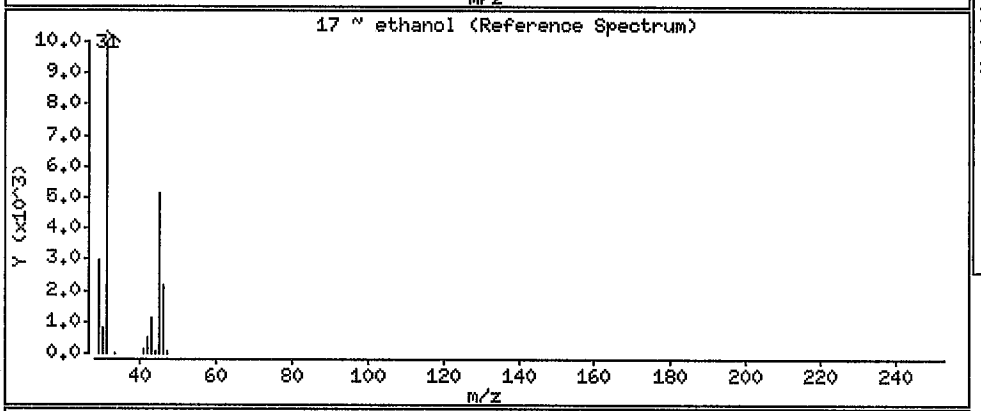
Column diameter: 0.32

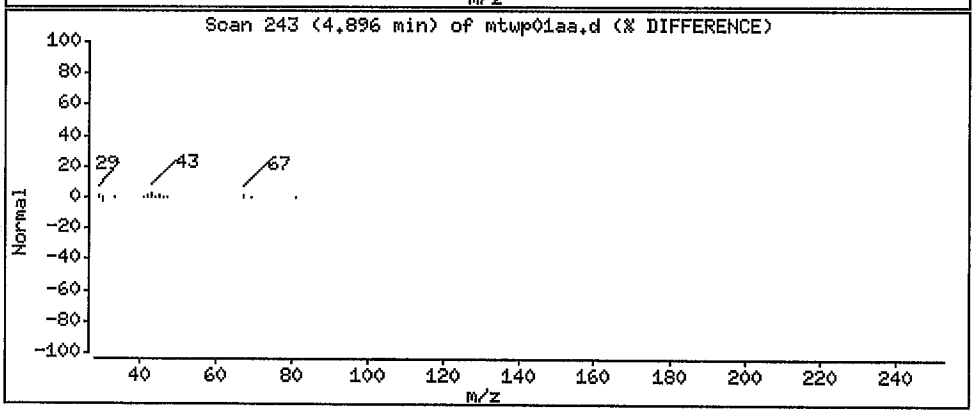
17 ^ ethanol

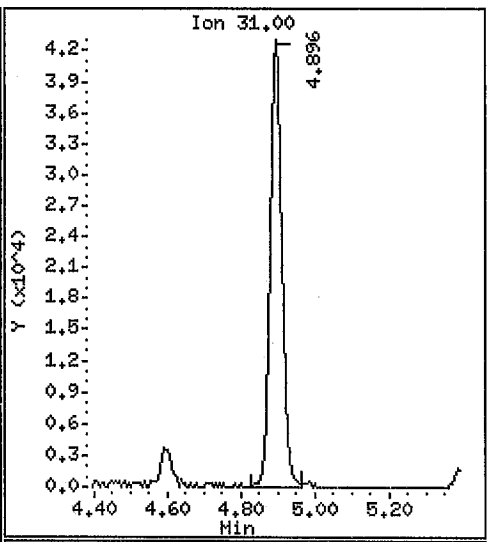
Concentration: 10.21 ppb(v/v)

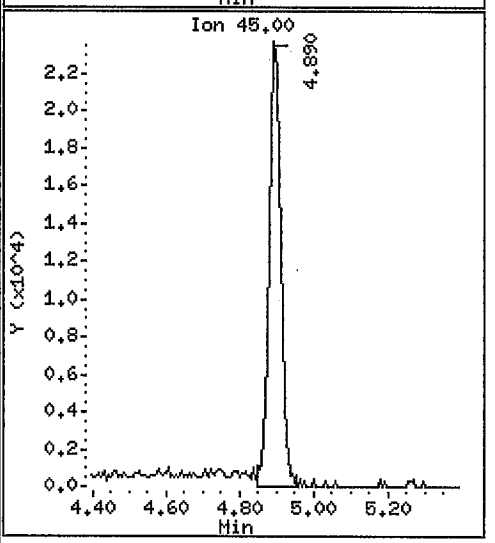












New York State D.E.C.

Client Sample ID: HOUSE # 4 SS DUP

GC/MS Volatiles

Lot-Sample # H2E310431 - 002 **Work Order #** MTWP41AA **Matrix.....:** AIR

Date Sampled...: 05/30/2012 **Date Received..:** 05/31/2012
Prep Date.....: 06/05/2012 **Analysis Date...** 06/05/2012
Prep Batch #.....: 2156111
Dilution Factor.: 3.5 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	**1.3**	**0.28**	**7.0**	**1.5**
1,1,2,2-Tetrachloroethane	ND	0.28	ND	1.9
1,1,2-Trichlorotrifluoroethane	ND	0.28	ND	2.1
1,1,2-Trichloroethane	ND	0.28	ND	1.5
1,1-Dichloroethane	ND	0.28	ND	1.1
1,1-Dichloroethene	ND	0.28	ND	1.1
1,2,4-Trichlorobenzene	ND	0.28	ND	2.1
1,2,4-Trimethylbenzene	**1.7**	**0.28**	**8.2**	**1.4**
1,2-Dibromoethane (EDB)	ND	0.28	ND	2.2
1,2-Dichlorobenzene	ND	0.28	ND	1.7
1,2-Dichloroethane	ND	0.28	ND	1.1
1,2-Dichloropropane	ND	0.28	ND	1.3
1,3,5-Trimethylbenzene	**0.39**	**0.28**	**1.9**	**1.4**
1,4-Dichlorobenzene	ND	0.28	ND	1.7
1,4-Dioxane	ND	0.70	ND	2.5
2-Butanone (MEK)	**2.4**	**1.1**	**7.0**	**3.3**
1,3-Dichlorobenzene	ND	0.28	ND	1.7
2,2,4-Trimethylpentane	ND	0.70	ND	3.3
Benzene	**1.5**	**0.28**	**4.8**	**0.89**
Benzyl chloride	ND	0.56	ND	2.9
Bromodichloromethane	ND	0.28	ND	1.9
Bromoform	ND	0.28	ND	2.9
Bromomethane	ND	0.28	ND	1.1
Carbon tetrachloride	ND	0.14	ND	0.88
Chlorobenzene	ND	0.28	ND	1.3
Chloroethane	ND	0.28	ND	0.74
Chloroform	**29**	**0.28**	**140**	**1.4**
Cyclohexane	**1.4**	**0.70**	**4.7**	**2.4**
Chloromethane	ND	0.70	ND	1.4
cis-1,2-Dichloroethene	ND	0.28	ND	1.1
cis-1,3-Dichloropropene	ND	0.28	ND	1.3
Dibromochloromethane	ND	0.28	ND	2.4
Dichlorodifluoromethane	**0.43**	**0.28**	**2.1**	**1.4**
Ethanol	**12**	**2.8**	**22**	**5.3**
Ethylbenzene	**1.5**	**0.28**	**6.4**	**1.2**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.28	ND	2.0
n-Hexane	**3.2**	**0.70**	**11**	**2.5**
Hexachlorobutadiene	ND	0.28	ND	3.0

New York State D.E.C.

Client Sample ID: HOUSE # 4 SS DUP

GC/MS Volatiles

Lot-Sample # H2E310431 - 002 **Work Order #** MTWP41AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.70	ND	2.9
Methyl tert-butyl ether	ND	0.56	ND	2.0
Methylene chloride	**1.3**	**0.70**	**4.5**	**2.4**
Styrene	ND	0.28	ND	1.2
tert-Butyl alcohol	ND	1.1	ND	3.4
Tetrachloroethene	ND	0.28	ND	1.9
Toluene	**8.4**	**0.28**	**31**	**1.1**
m-Xylene & p-Xylene	**5.4**	**0.28**	**24**	**1.2**
o-Xylene	**2.0**	**0.28**	**8.6**	**1.2**
trans-1,2-Dichloroethene	ND	0.28	ND	1.1
trans-1,3-Dichloropropene	ND	0.28	ND	1.3
Trichloroethene	ND	0.14	ND	0.75
Trichlorofluoromethane	**0.52**	**0.28**	**2.9**	**1.6**
Vinyl chloride	ND	0.28	ND	0.72

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	98	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d
Lab Smp Id: MTWP41AA Client Smp ID: HOUSE # 4 SS DUP
Inj Date : 05-JUN-2012 12:57
Operator : 7126 Inst ID: mj.i
Smp Info : ,3.5,0,,,
Misc Info : J060512,TO15,nysdec.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J060512.b/TO15.m
Meth Date : 06-Jun-2012 11:48 barlozha Quant Type: ISTD
Cal Date : 24-MAY-2012 13:43 Cal File: jice241.d
Als bottle: 16
Dil Factor: 3.50000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	3.50000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1	Bromochloromethane	128	8.989	8.987	(1.000)	411495	4.00000	4.000
* 2	1,4-Difluorobenzene	114	11.173	11.171	(1.000)	1801498	4.00000	4.000
* 3	Chlorobenzene-d5	117	15.896	15.894	(1.000)	1582980	4.00000	4.000
$ 4	4-Bromofluorobenzene	95	17.531	17.529	(1.103)	1229690	3.93498	3.935
7	Dichlorodifluoromethane	85	3.910	3.903	(0.435)	69553	0.12180	0.4263
20	Trichlorofluoromethane	101	5.401	5.393	(0.601)	80035	0.14795	0.5178
31	Methylene Chloride	84	6.449	6.442	(0.718)	38749	0.37250	1.304
40	Hexane	56	8.279	8.277	(0.921)	93984	0.90146	3.155
39	2-Butanone	72	8.209	8.212	(0.913)	30388	0.68040	2.381
43	Chloroform	83	9.005	9.003	(1.002)	2779080	8.39118	29.37
45	1,1,1-Trichloroethane	97	10.043	10.041	(1.117)	144811	0.36466	1.276
49	Cyclohexane	69	10.656	10.654	(0.954)	23152	0.38595	1.351
48	Benzene	78	10.640	10.633	(0.952)	143844	0.42544	1.489
65	Toluene	91	13.932	13.930	(0.876)	862651	2.38593	8.351
76	Ethylbenzene	91	16.235	16.233	(1.021)	194238	0.42389	1.484
78	m&p-Xylene	91	16.391	16.394	(1.031)	564912	1.54872	5.420

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d
Report Date: 06-Jun-2012 12:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
82 o-Xylene	91	16.918	16.921	(1.064)	212643	0.56588	1.980
90 1,3,5-Trimethylbenzene	120	18.263	18.261	(1.149)	23088	0.11030	0.3861
94 1,2,4-Trimethylbenzene	105	18.693	18.697	(1.176)	190246	0.47646	1.668
17 ~ ethanol	31	4.906	4.893	(0.546)	127525	3.38535	11.85

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: mtwp41aa.d
Lab Smp Id: MTWP41AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,nysdec.sub,,,

Calibration Date: 05-JUN-2012
Calibration Time: 08:54
Client Smp ID: HOUSE # 4 SS DUP
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	373662	222329	524995	411495	10.12
2 1,4-Difluorobenze	1719152	1022895	2415409	1801498	4.79
3 Chlorobenzene-d5	1506917	896616	2117218	1582980	5.05

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.99	0.02
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.02
3 Chlorobenzene-d5	15.89	15.56	16.22	15.90	0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

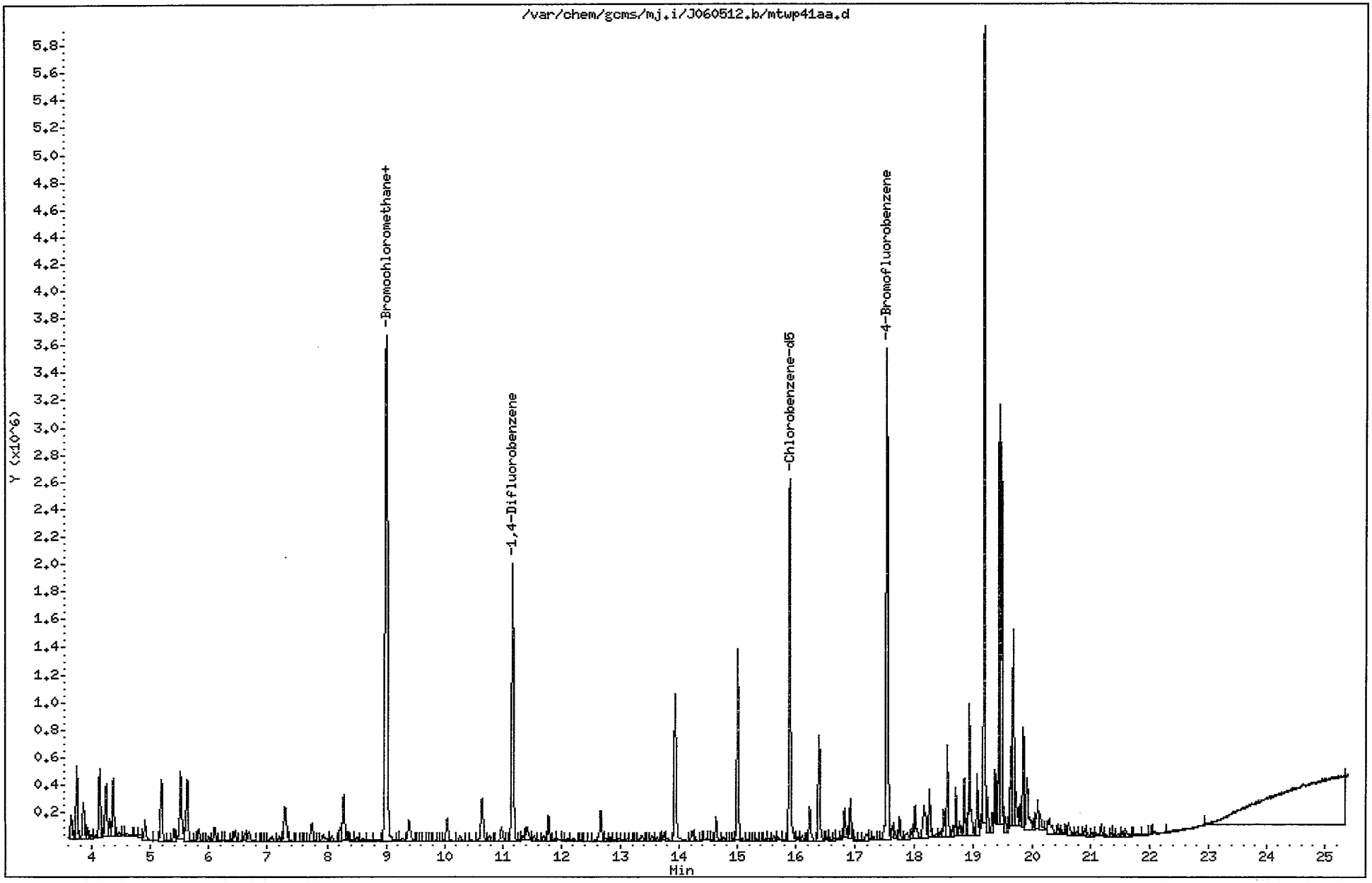
RECOVERY REPORT

Client Name: New York State D.E.C31-MAY-2012 00:00 Client SDG: H2E310431
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MTWP41AA Client Smp ID: HOUSE # 4 SS DUP
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,nysdec.sub,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	3.935	98.37	60-140

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d
Date : 05-JUN-2012 12:57
Client ID: HOUSE # 4 SS DUP
Sample Info: ,3.5,0,,,
Purge Volume: 500.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

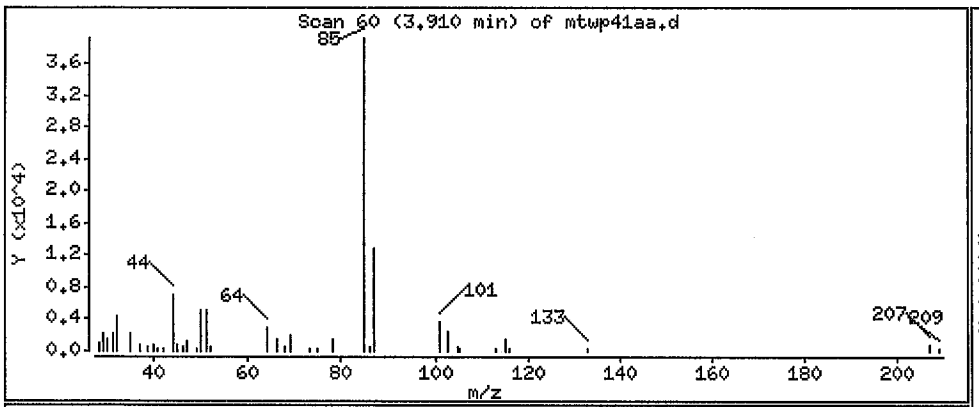
Operator: 7126

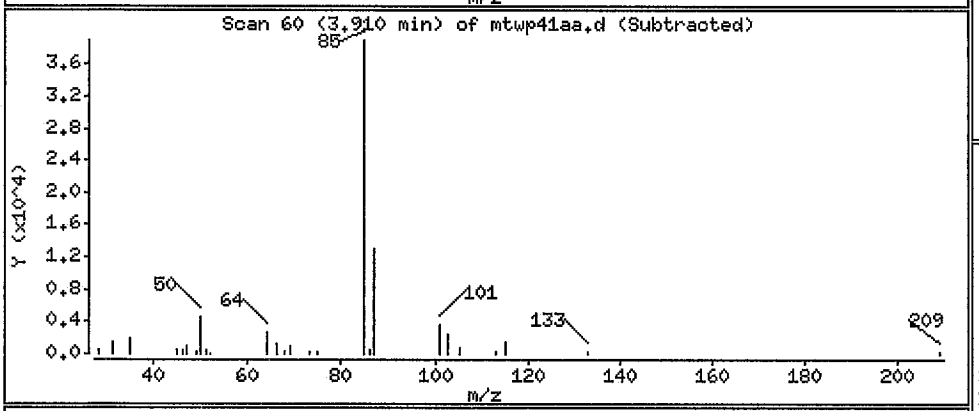
Column phase: Rtx-5

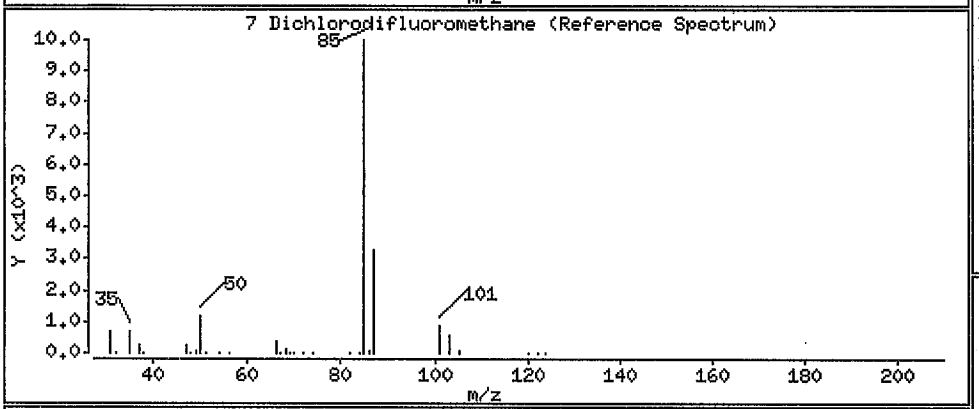
Column diameter: 0.32

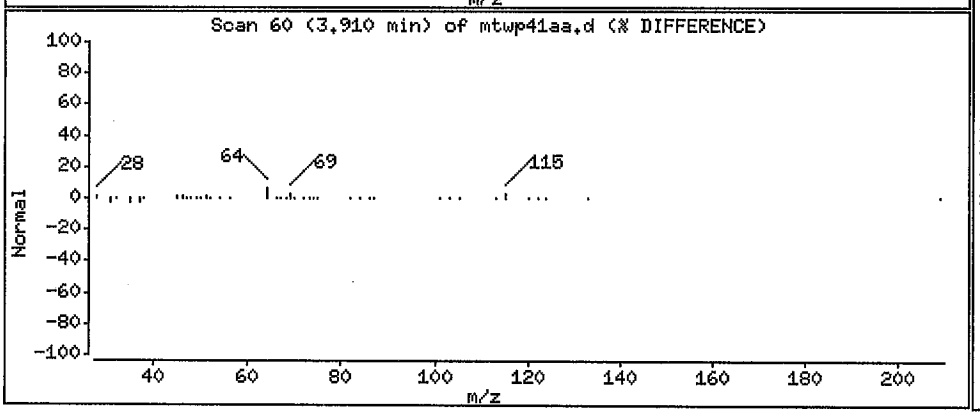
7 Dichlorodifluoromethane

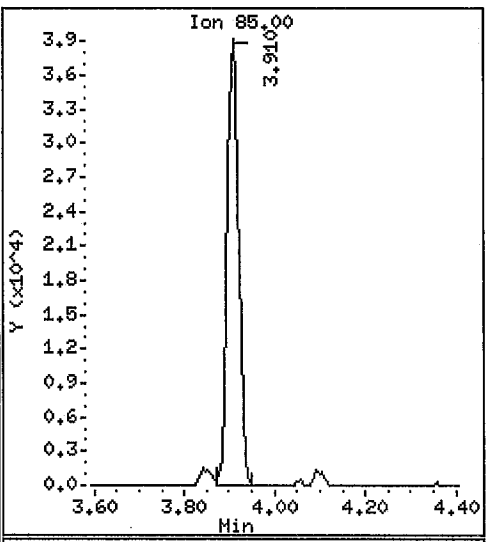
Concentration: 0.4263 ppb(v/v)

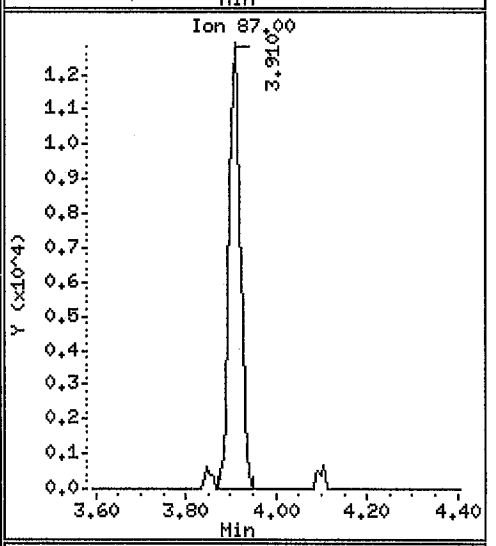


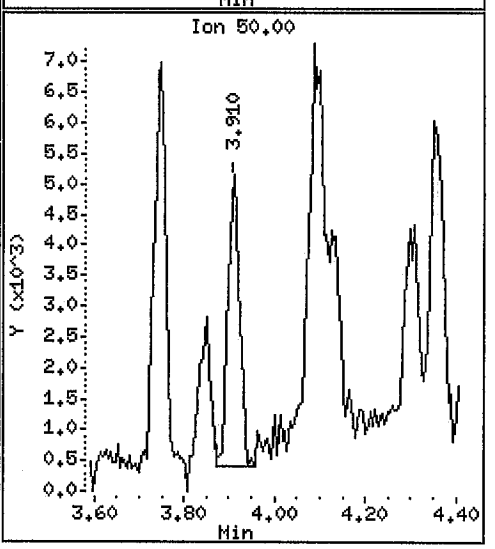












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

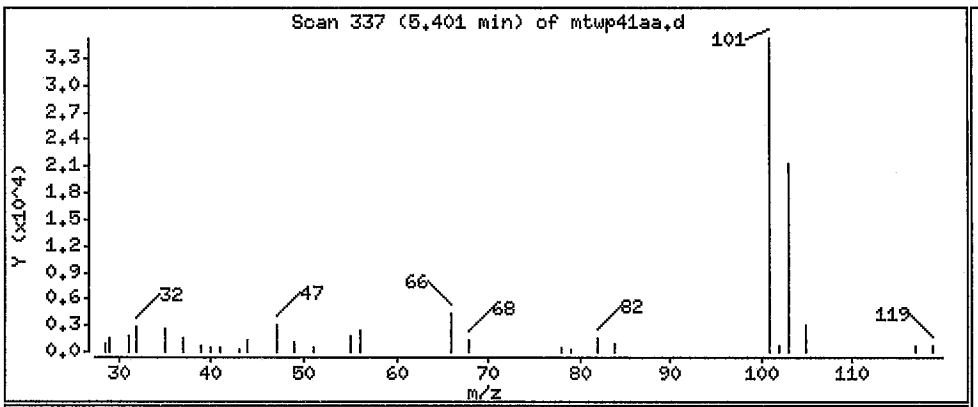
Operator: 7126

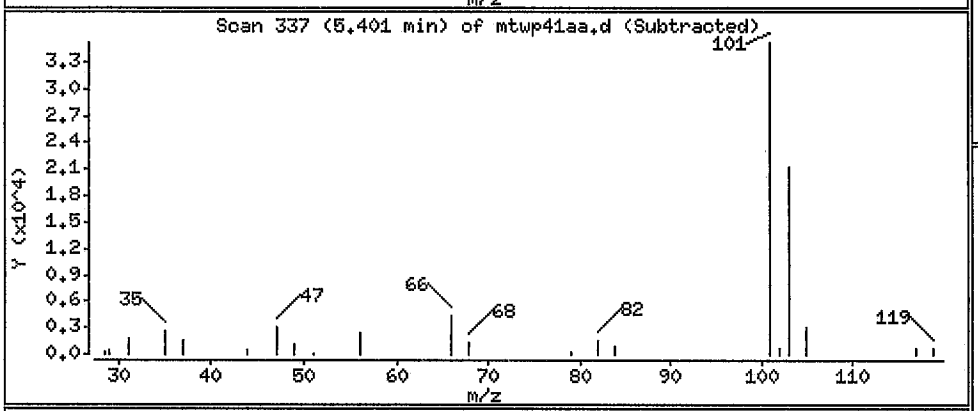
Column phase: Rtx-5

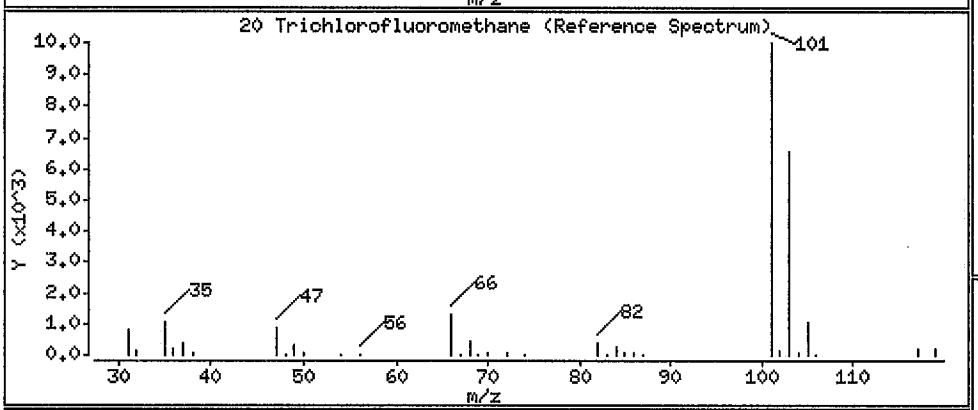
Column diameter: 0.32

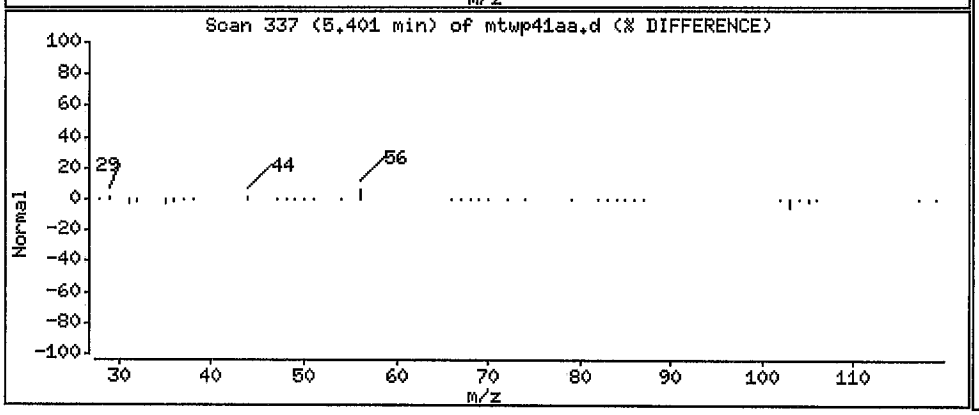
20 Trichlorofluoromethane

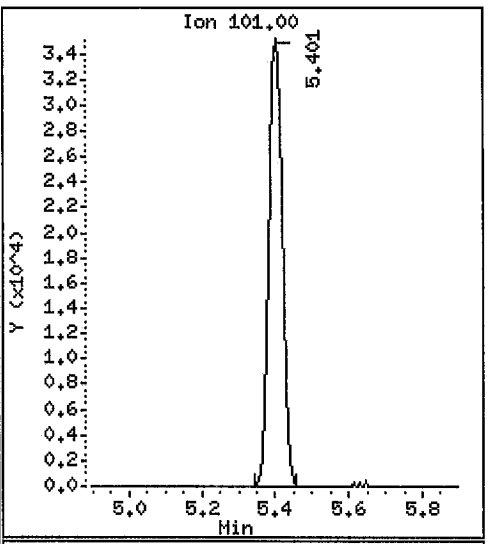
Concentration: 0.5178 ppb(v/v)

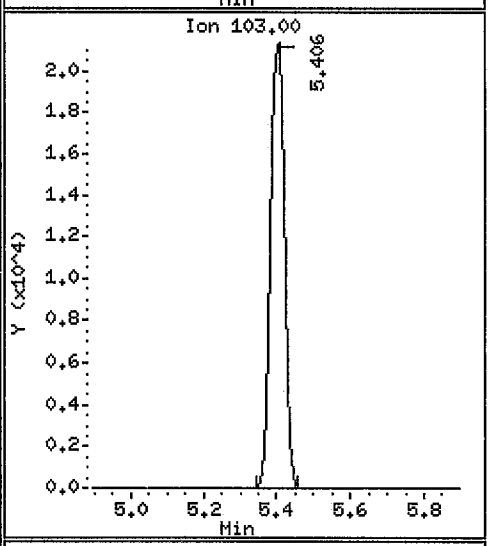


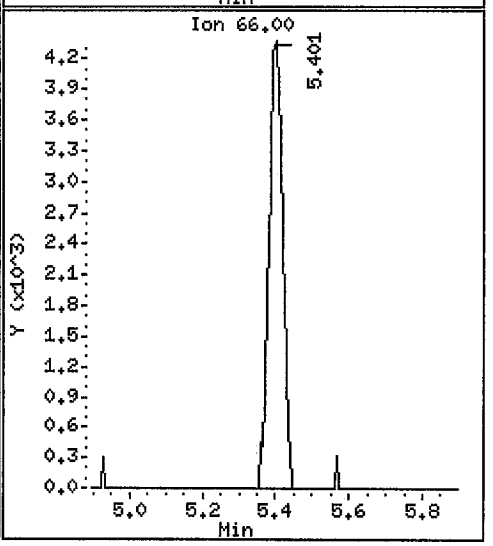












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

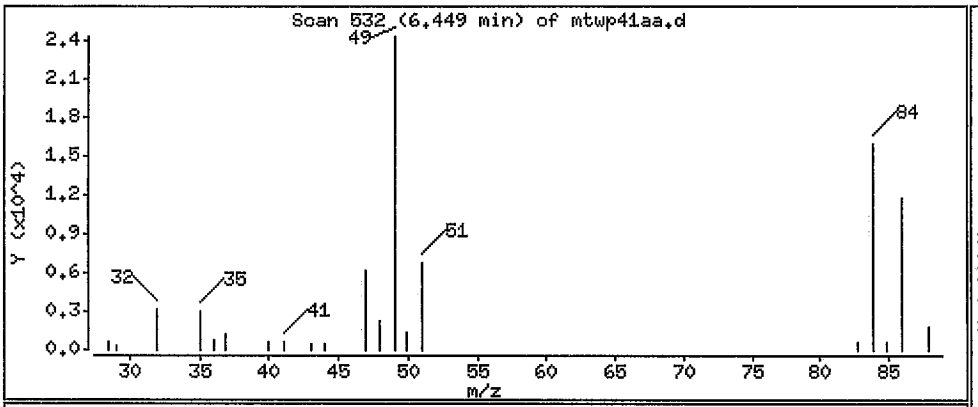
Operator: 7126

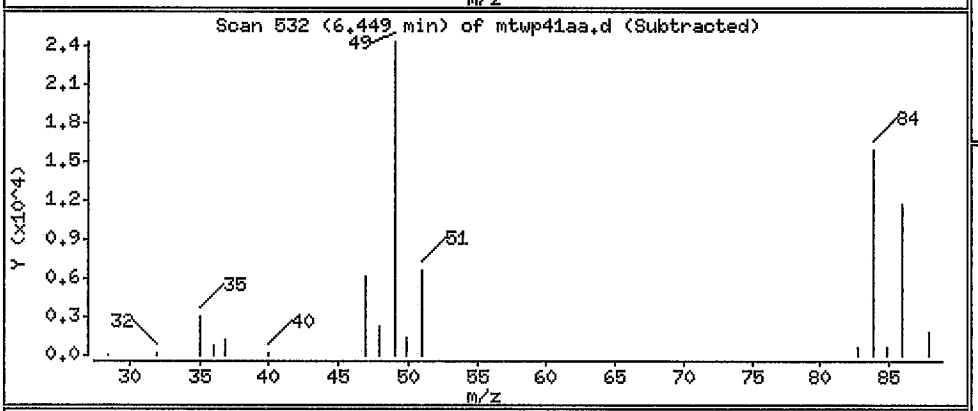
Column phase: Rtx-5

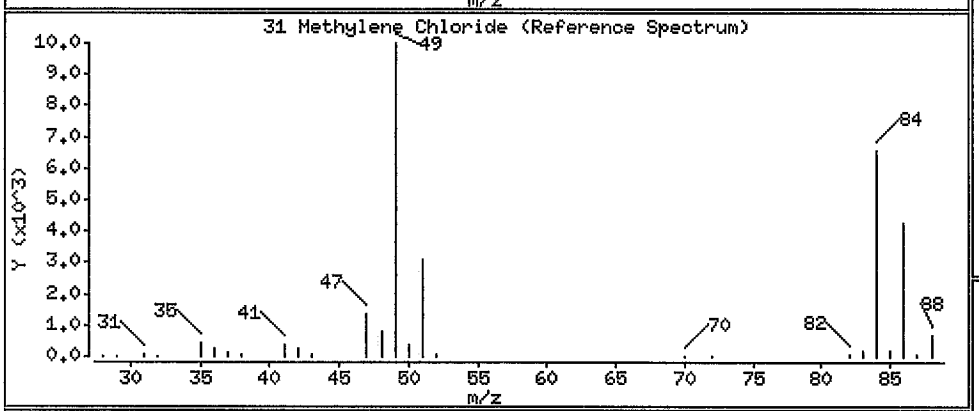
Column diameter: 0.32

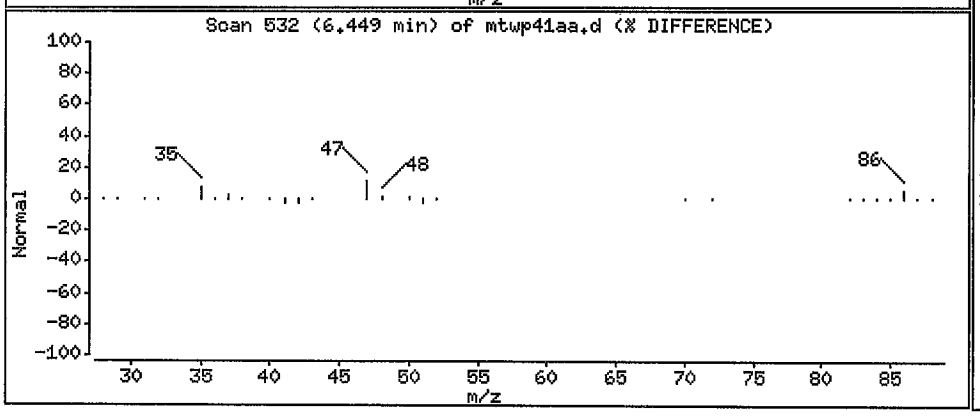
31 Methylene Chloride

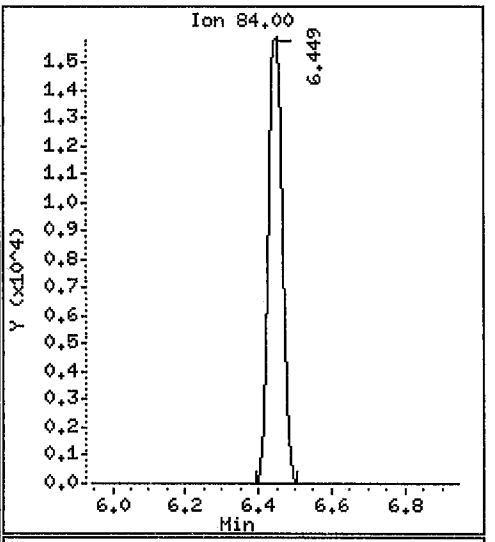
Concentration: 1.304 ppb(v/v)

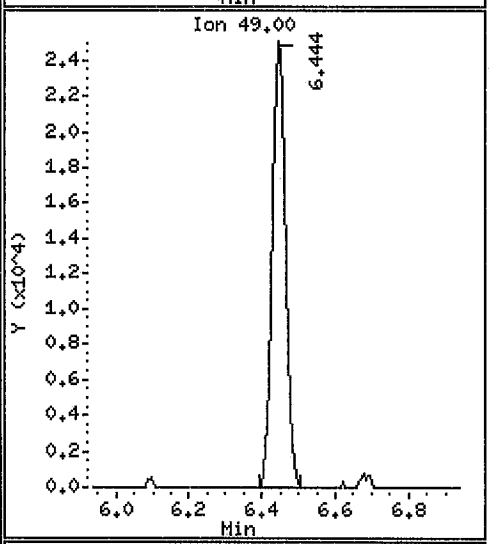


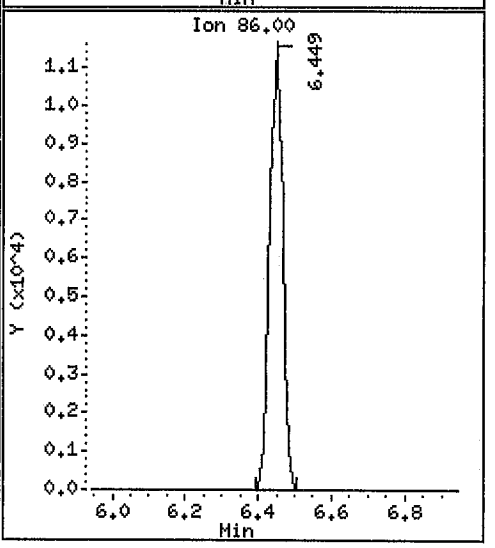












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

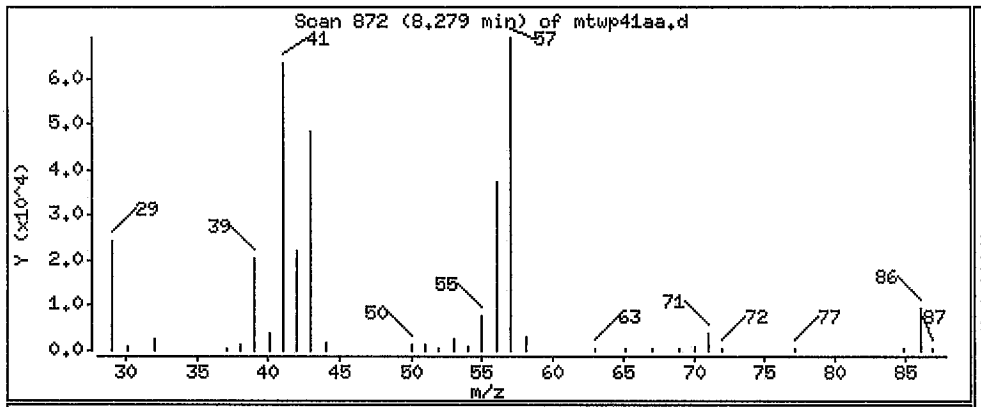
Operator: 7126

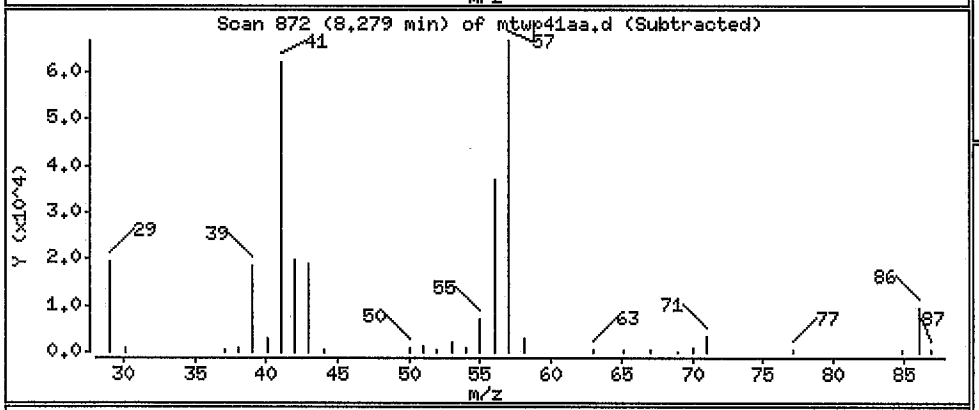
Column phase: Rtx-5

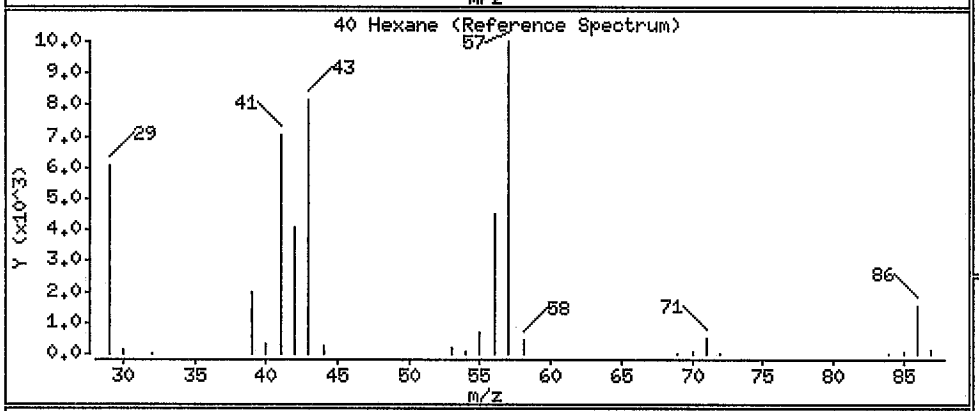
Column diameter: 0.32

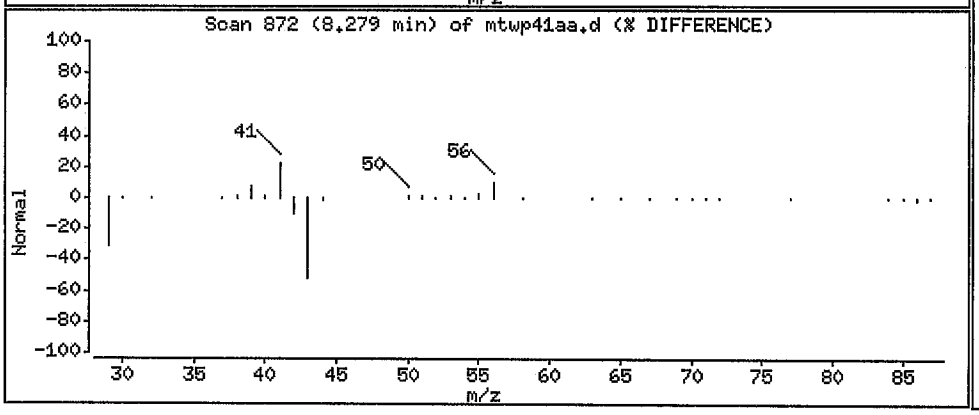
40 Hexane

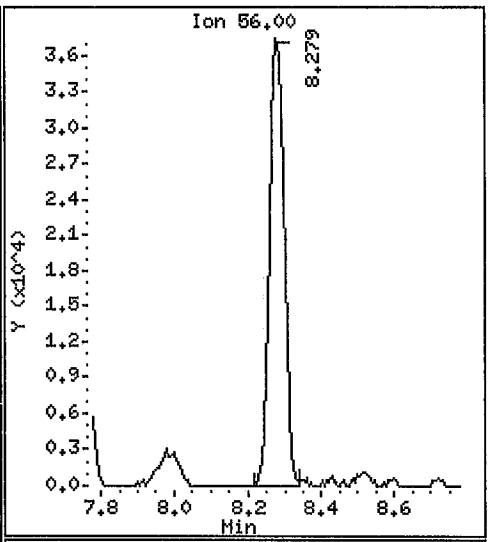
Concentration: 3.155 ppb(v/v)

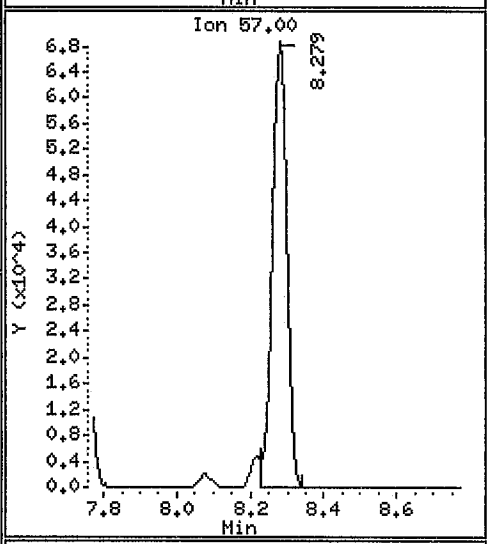


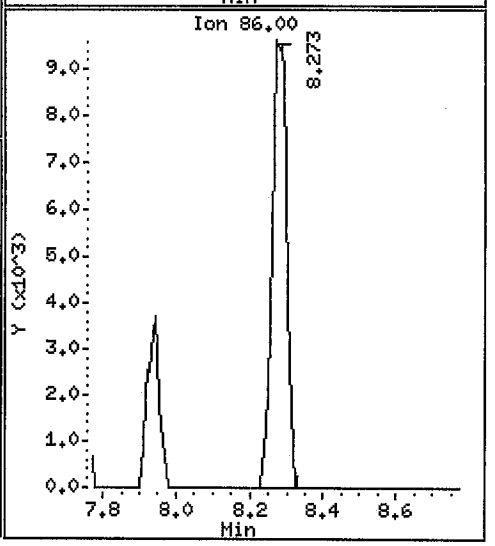












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

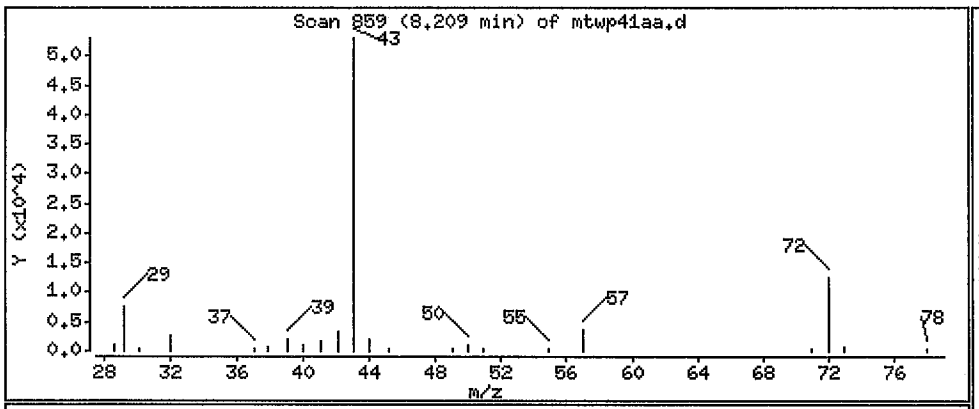
Operator: 7126

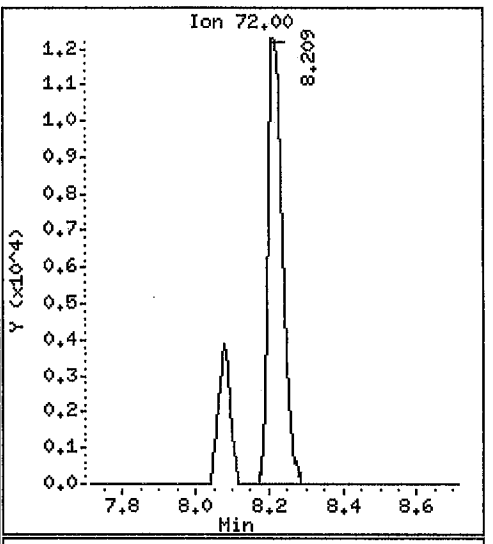
Column phase: Rtx-5

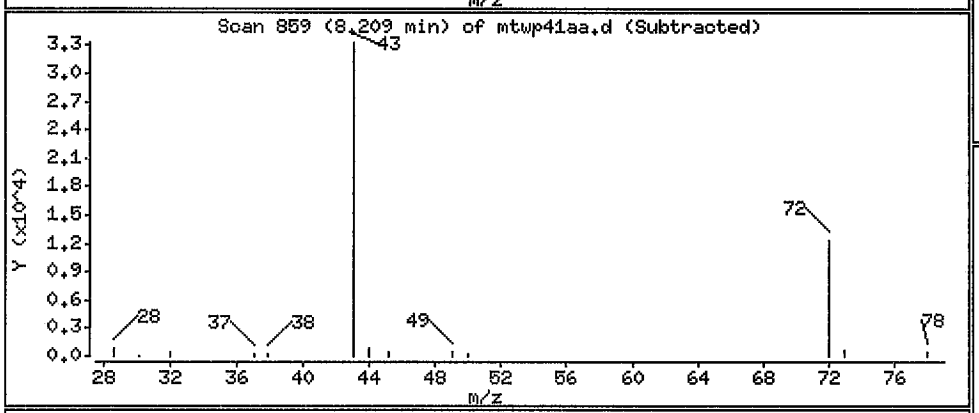
Column diameter: 0.32

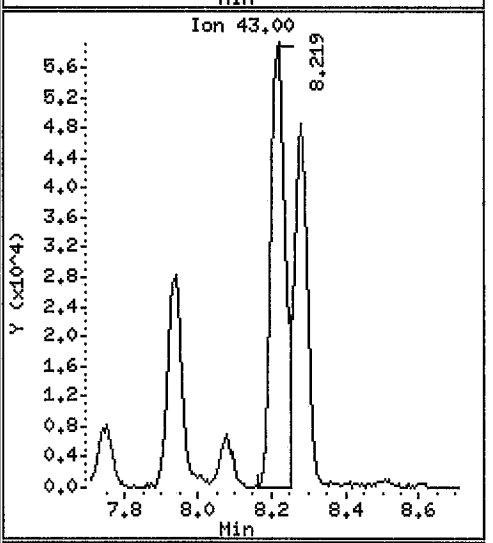
39 2-Butanone

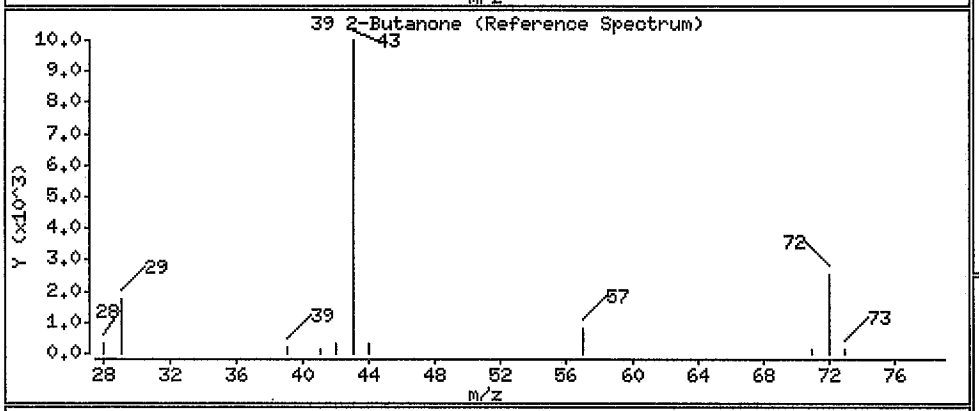
Concentration: 2.381 ppb(v/v)

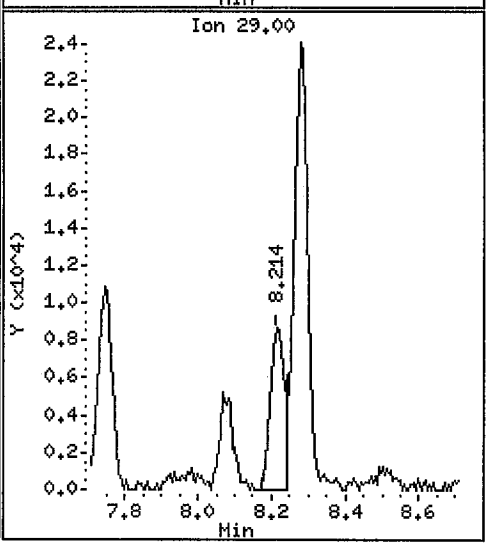


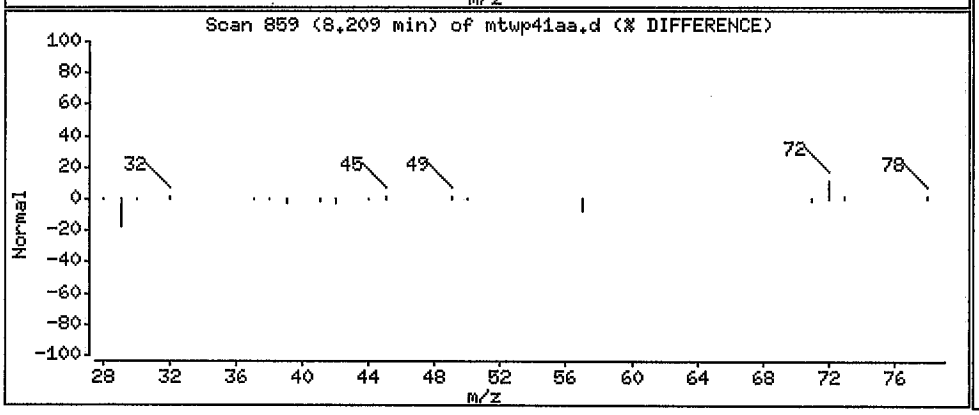












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

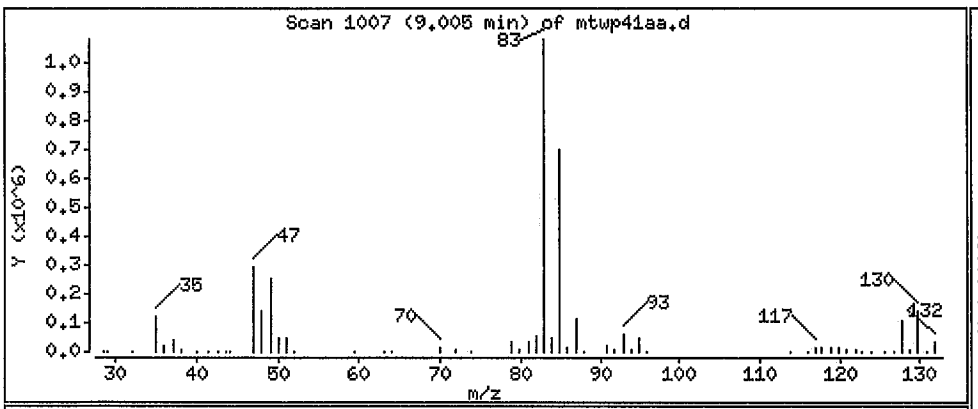
Operator: 7126

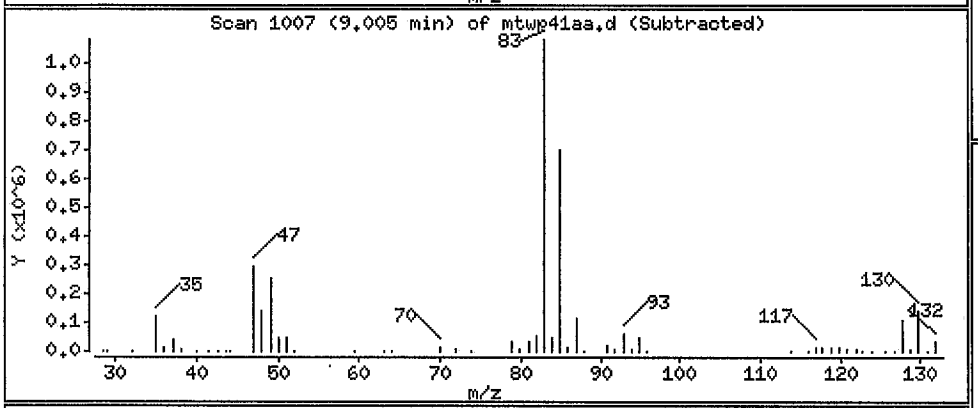
Column phase: Rtx-5

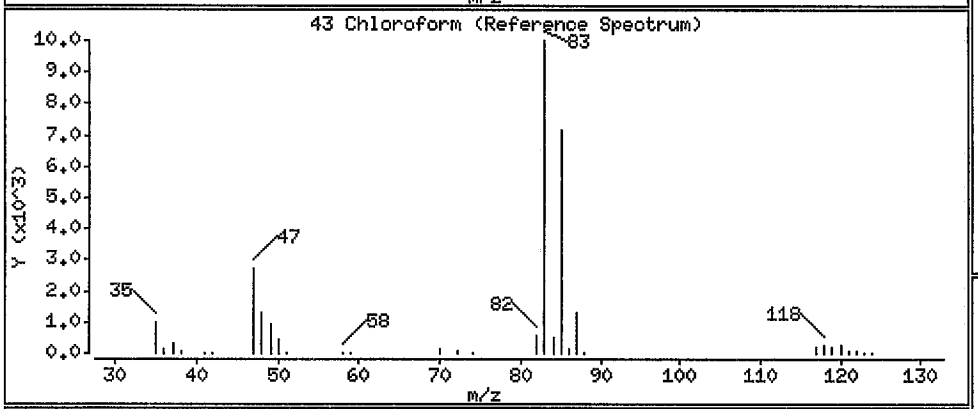
Column diameter: 0.32

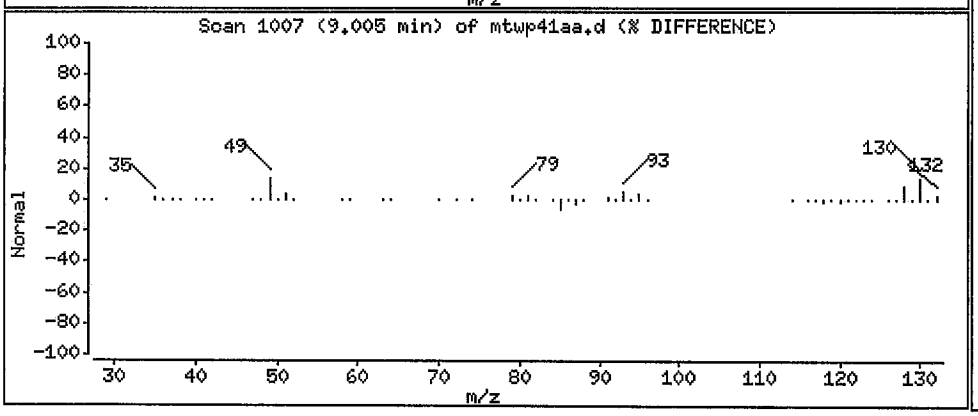
43 Chloroform

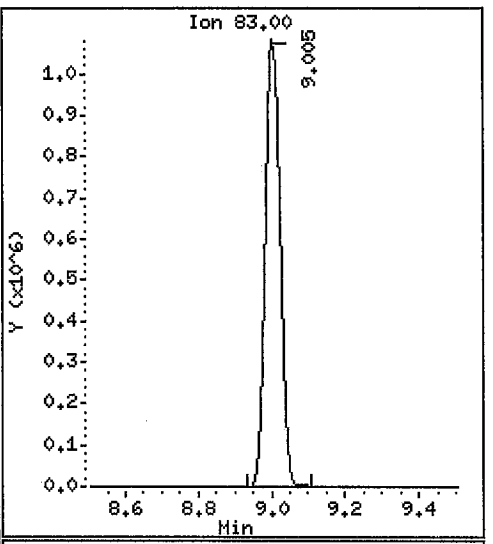
Concentration: 29.37 ppb(v/v)

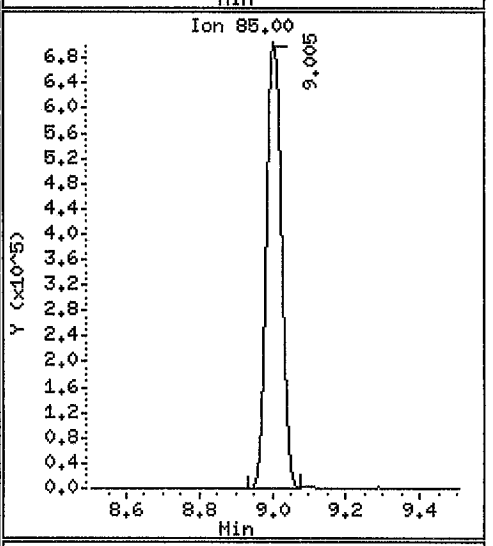


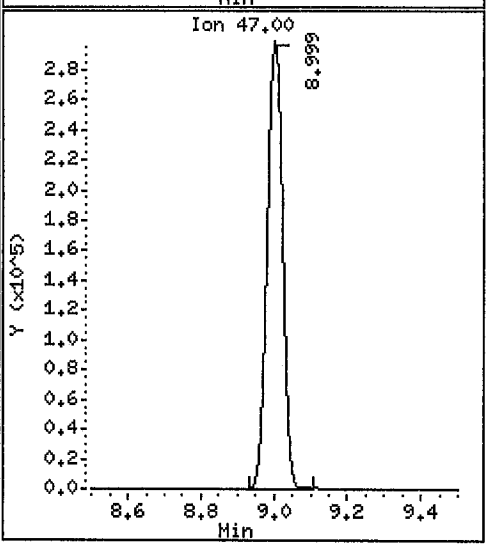












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

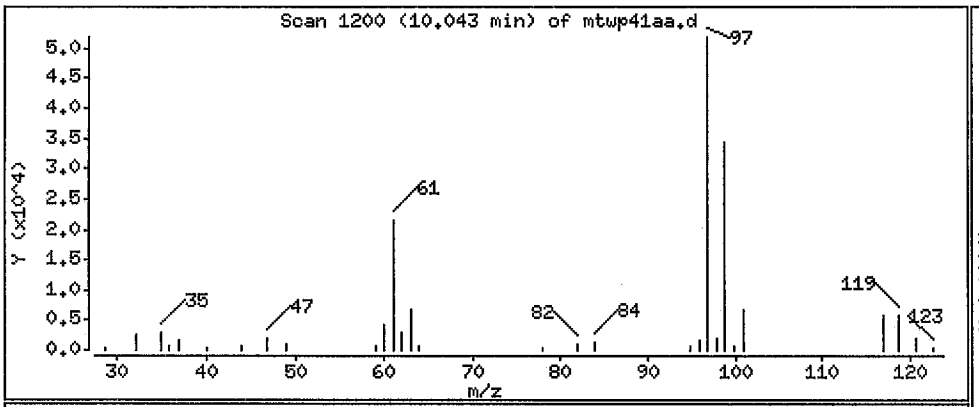
Operator: 7126

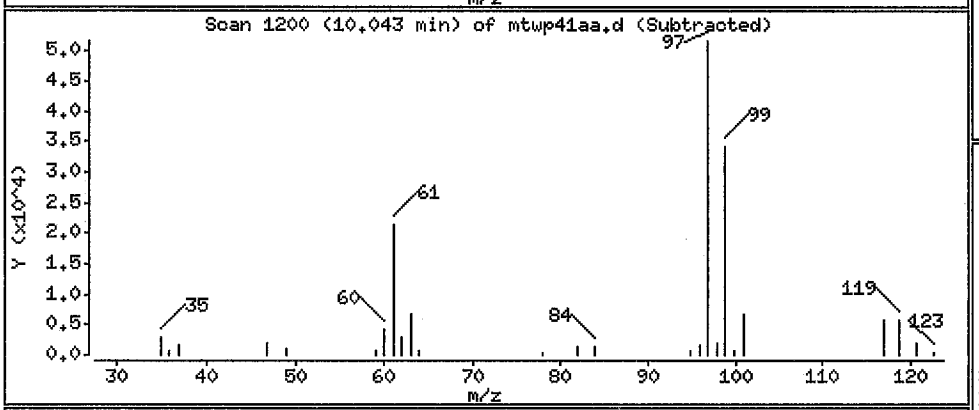
Column phase: Rtx-5

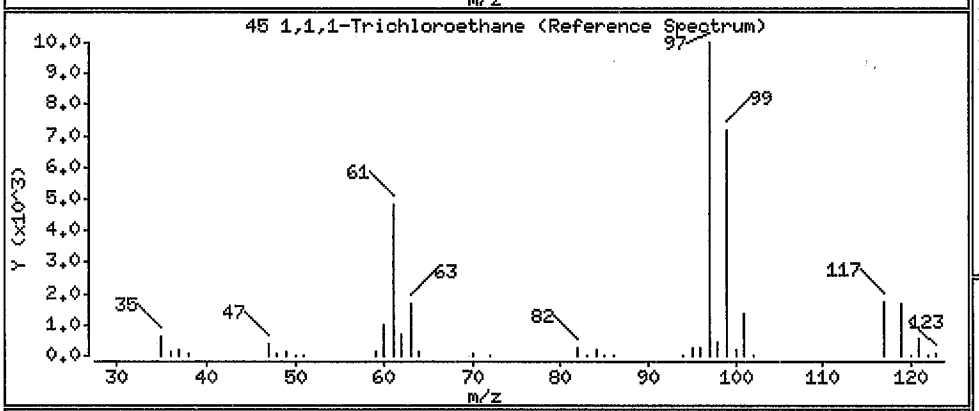
Column diameter: 0.32

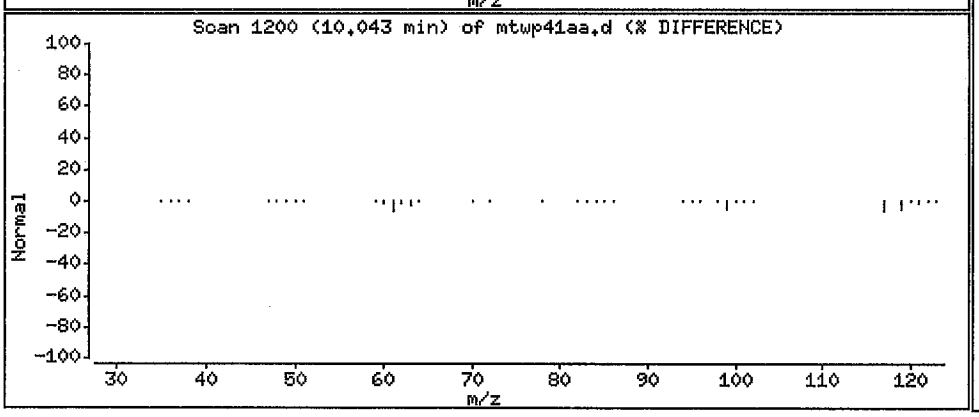
45 1,1,1-Trichloroethane

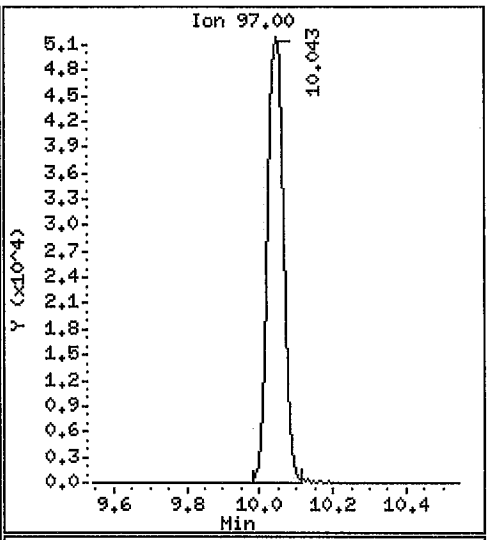
Concentration: 1.276 ppb(v/v)

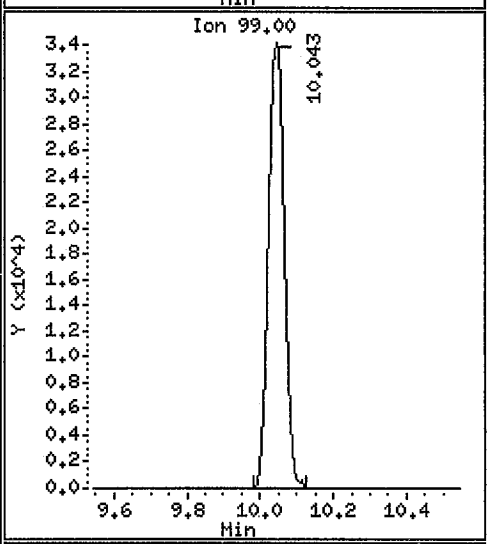


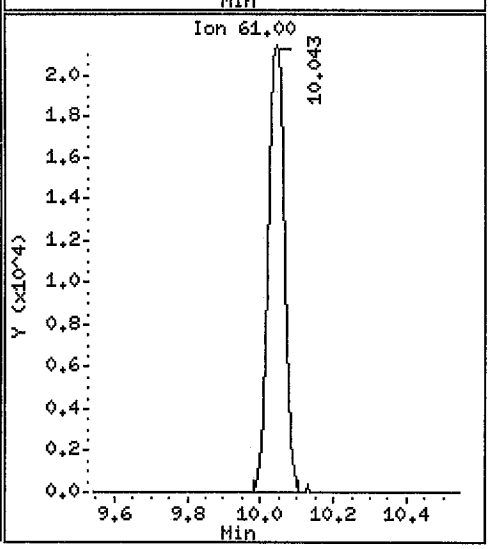












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

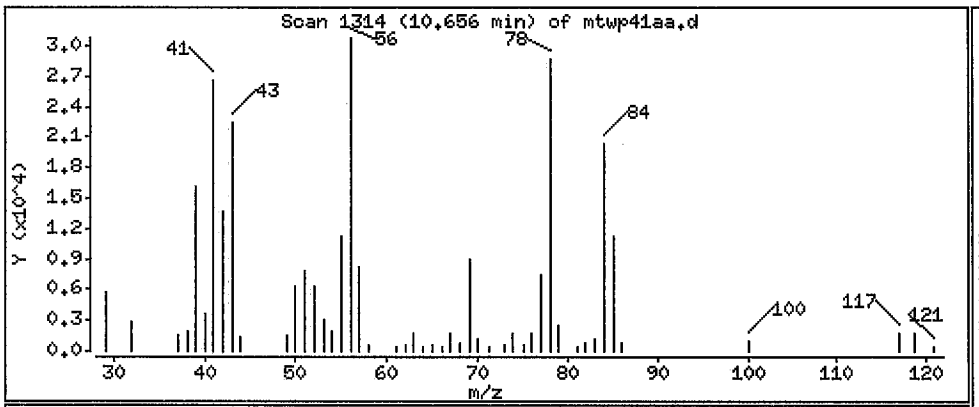
Operator: 7126

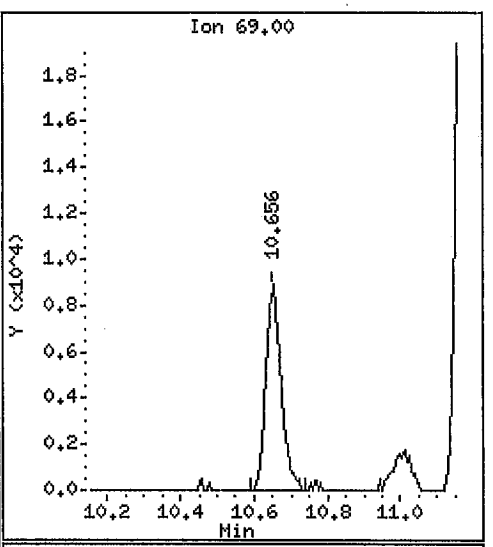
Column phase: Rtx-5

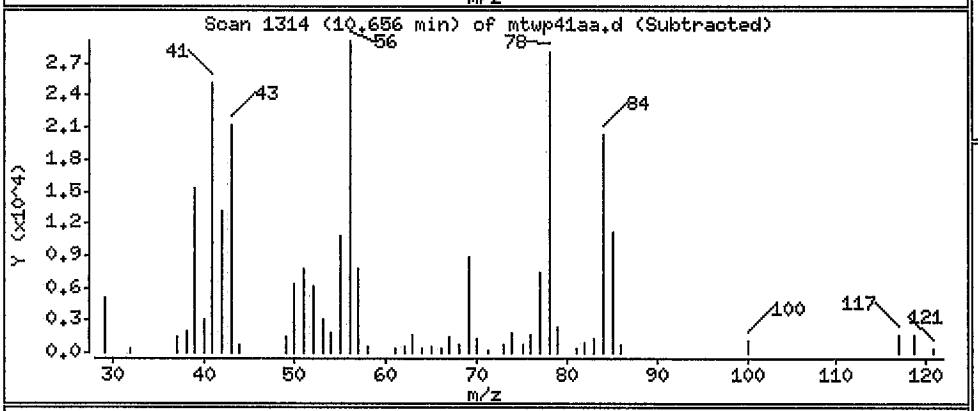
Column diameter: 0.32

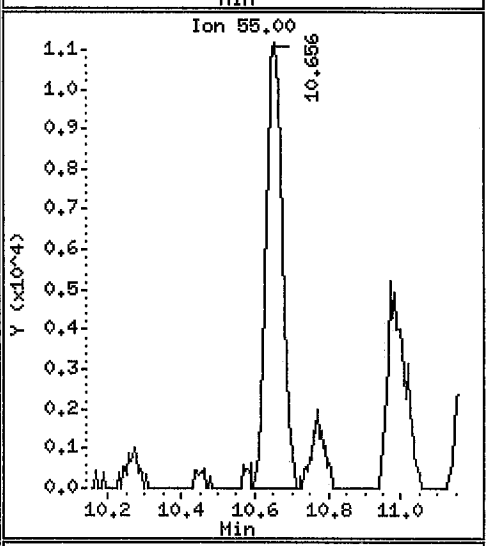
49 Cyclohexane

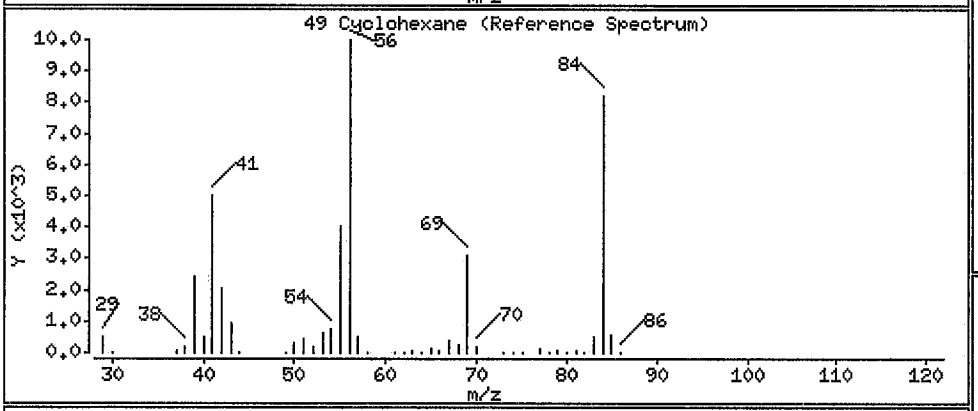
Concentration: 1.351 ppb(v/v)

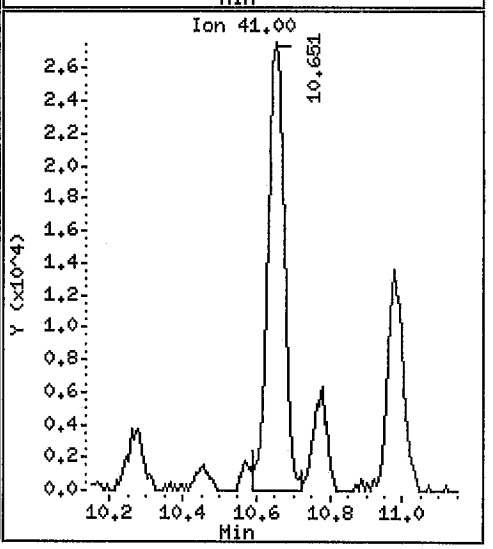


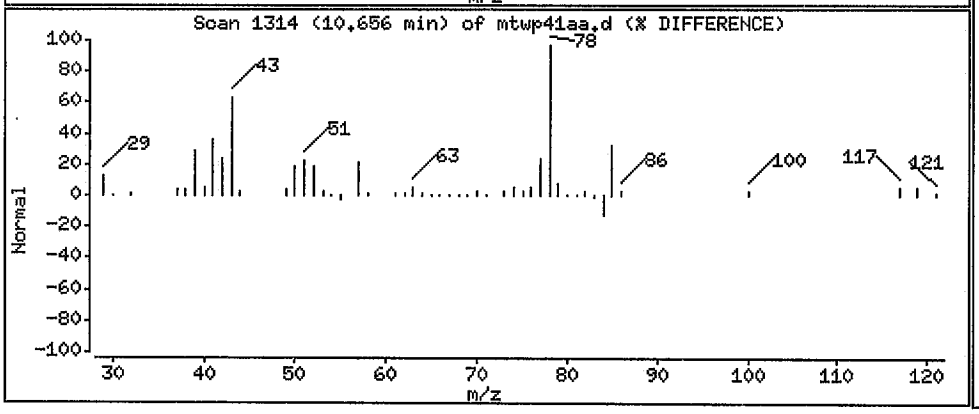












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

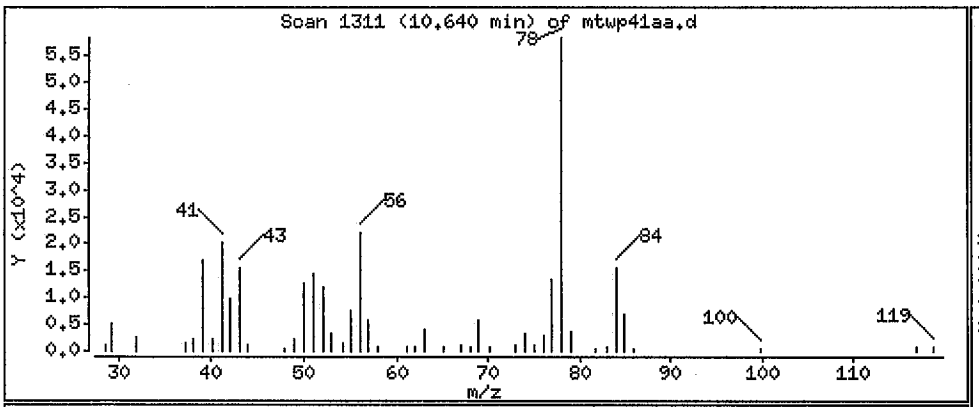
Operator: 7126

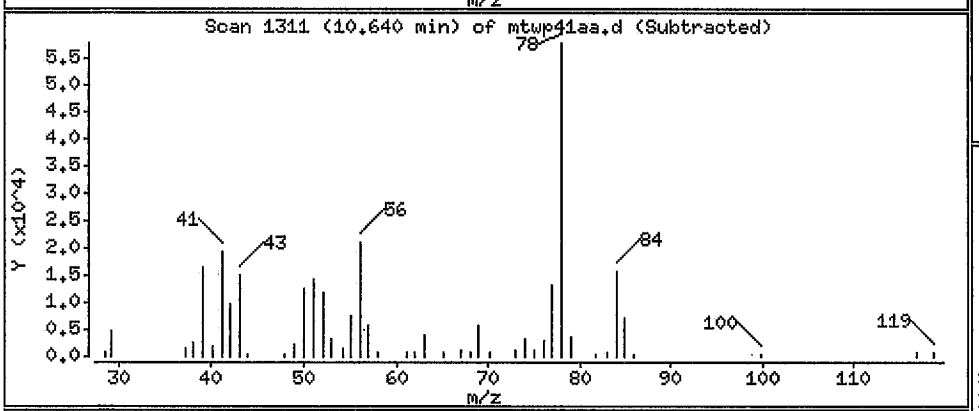
Column phase: Rtx-5

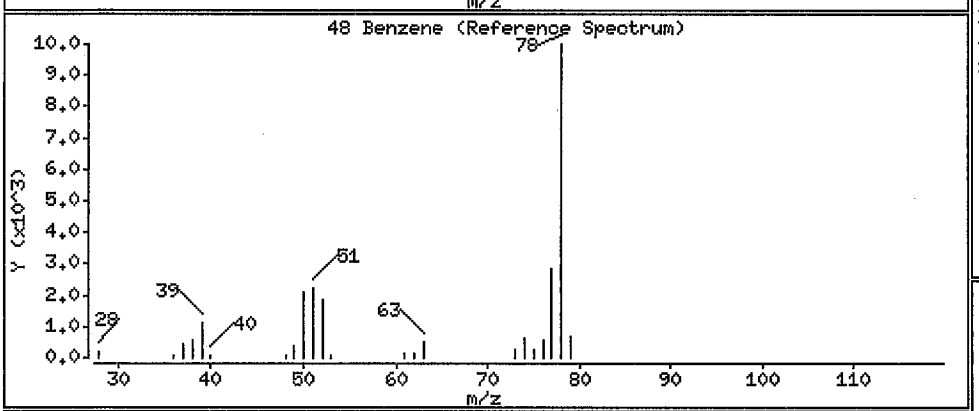
Column diameter: 0.32

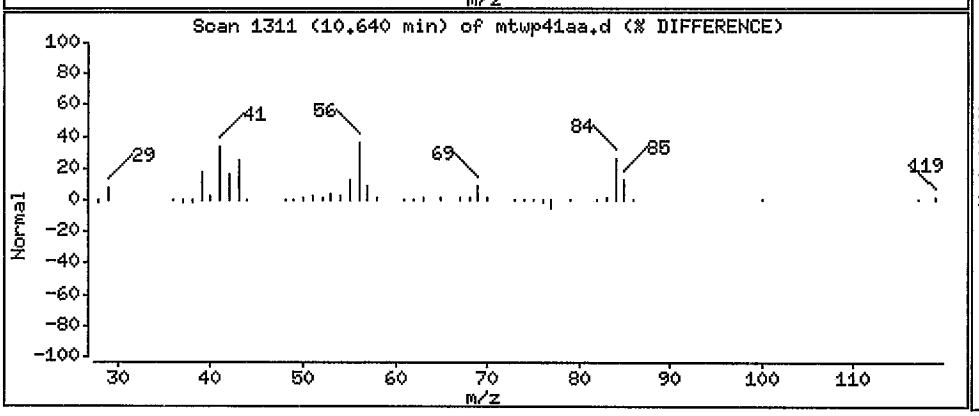
48 Benzene

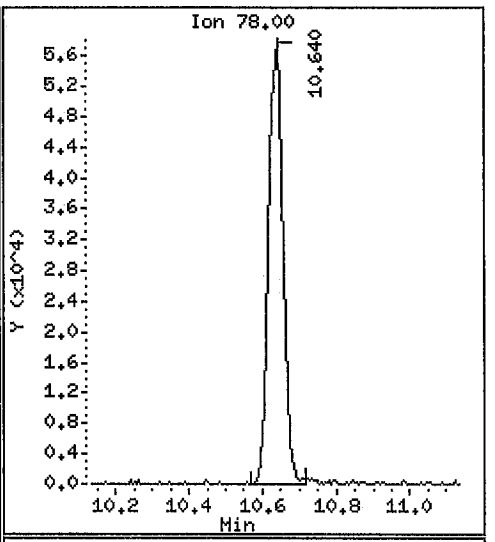
Concentration: 1.489 ppb(v/v)

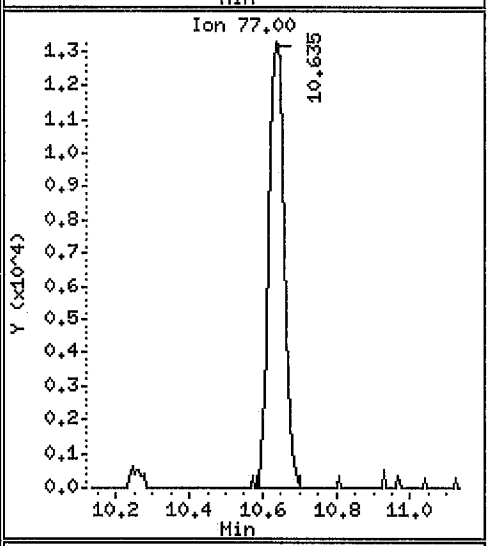


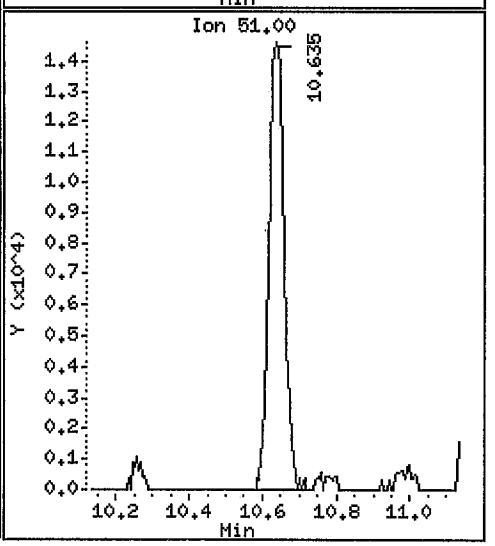












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

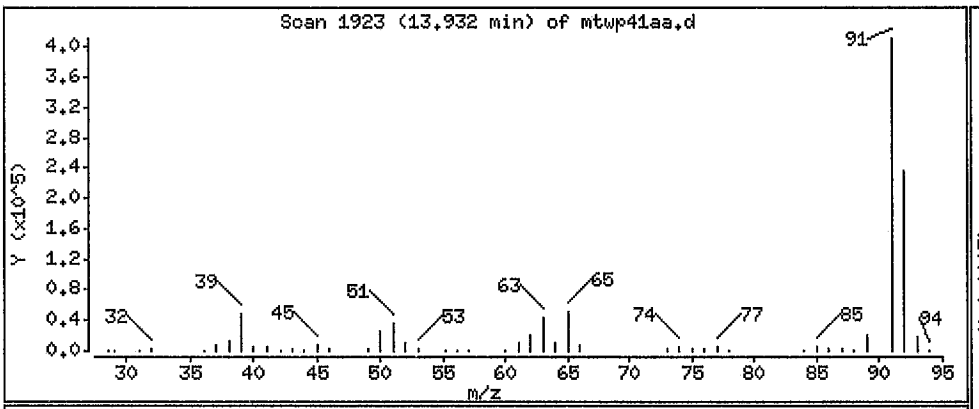
Operator: 7126

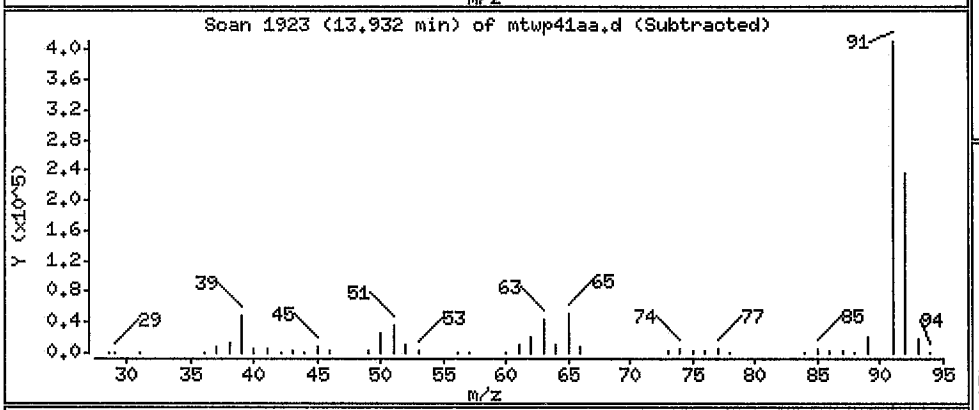
Column phase: Rtx-5

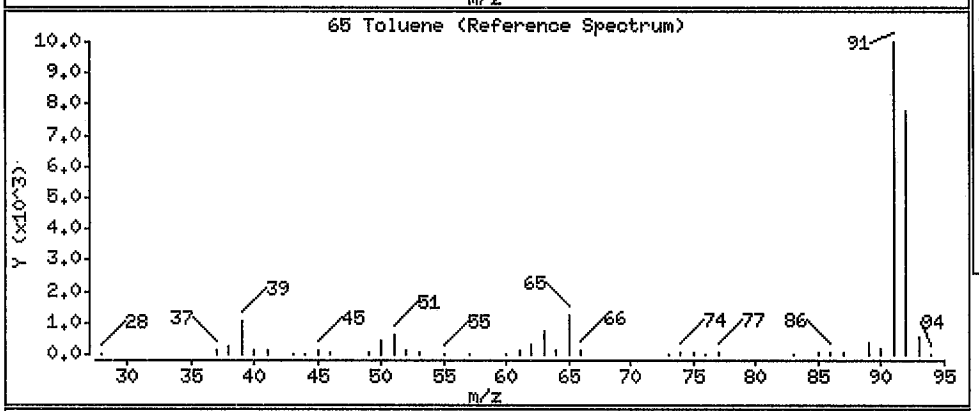
Column diameter: 0.32

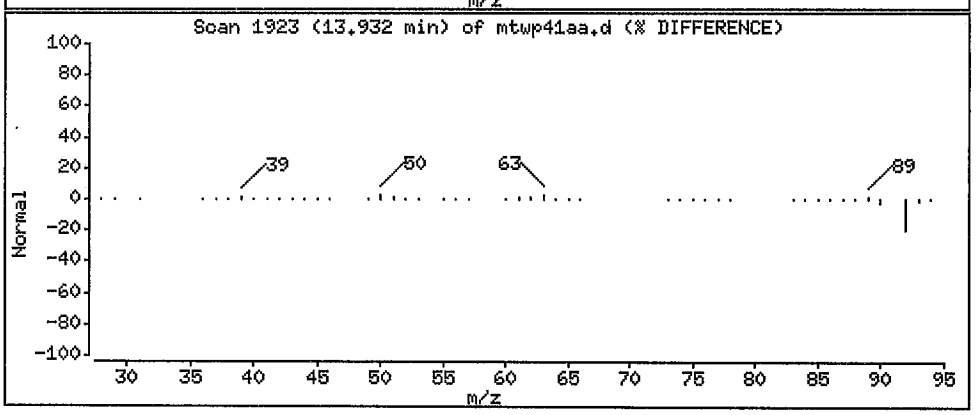
65 Toluene

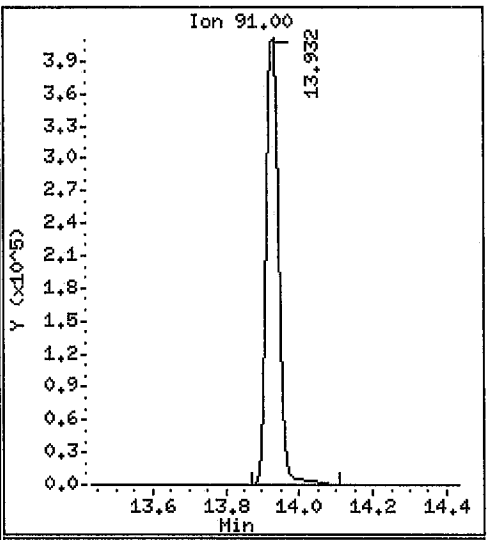
Concentration: 8.351 ppb(v/v)

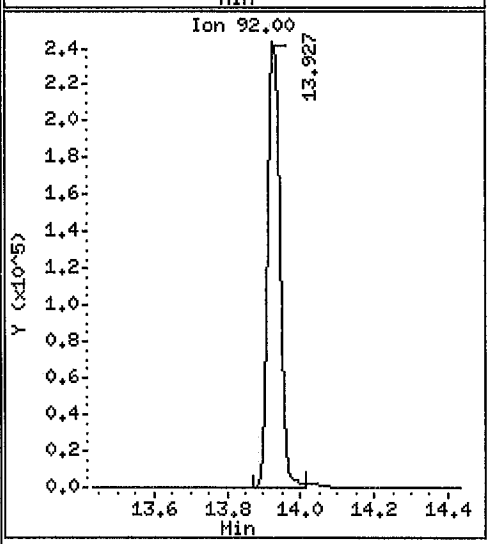












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

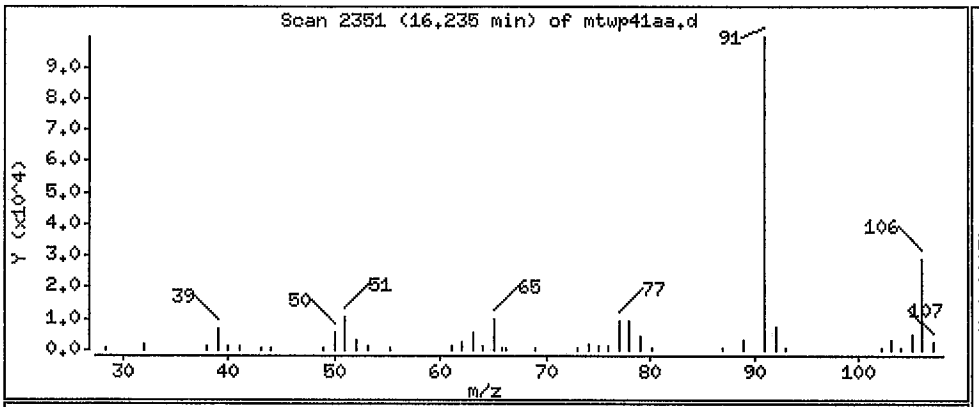
Operator: 7126

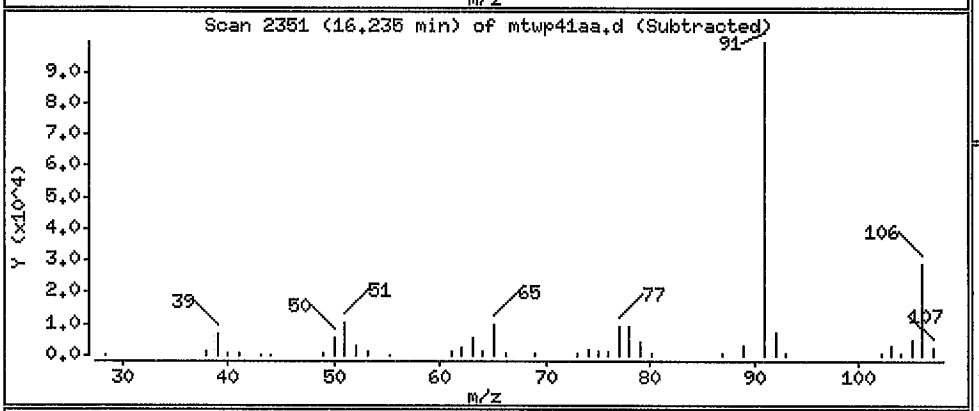
Column phase: Rtx-5

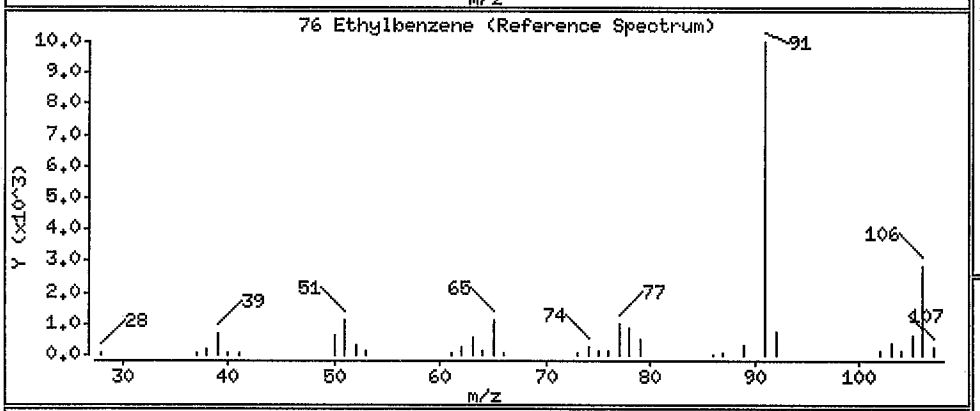
Column diameter: 0.32

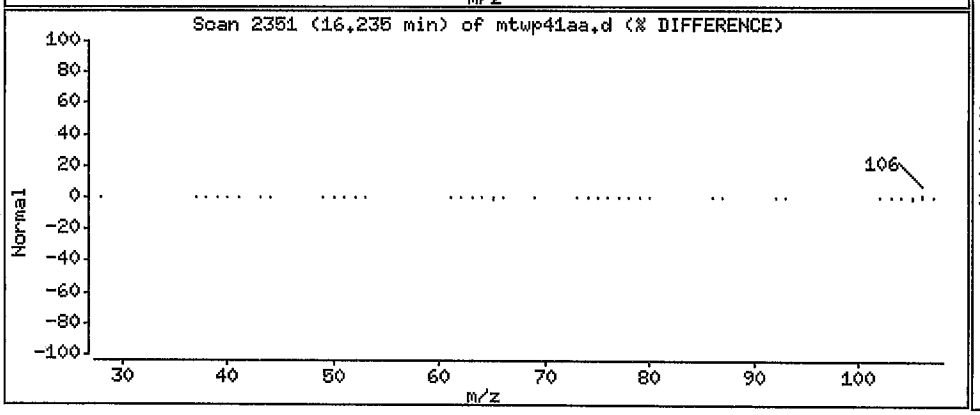
76 Ethylbenzene

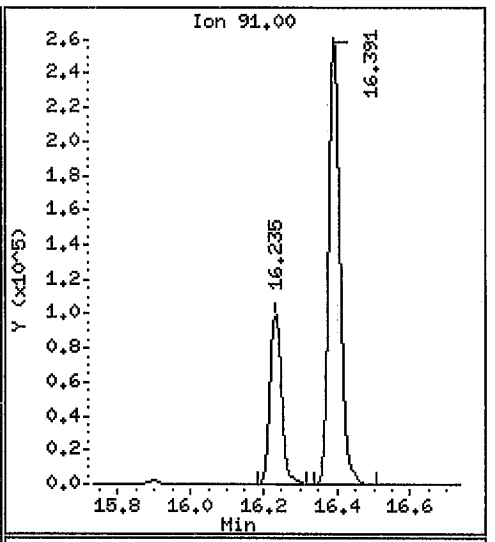
Concentration: 1.484 ppb(v/v)

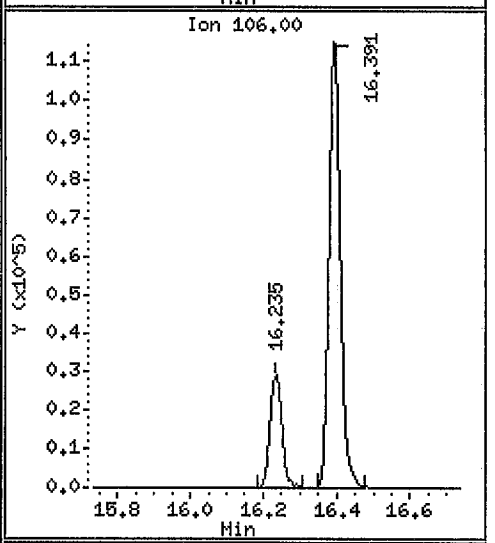


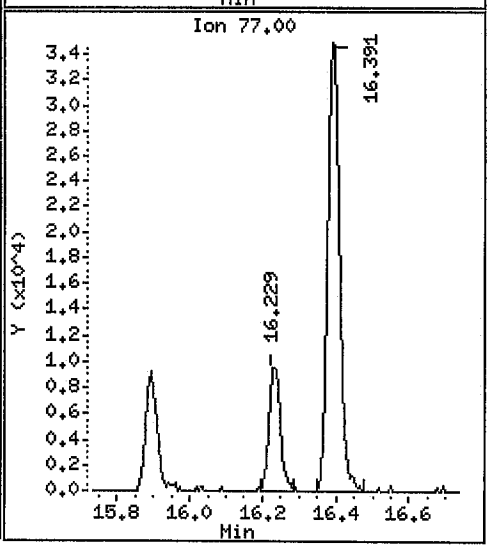












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

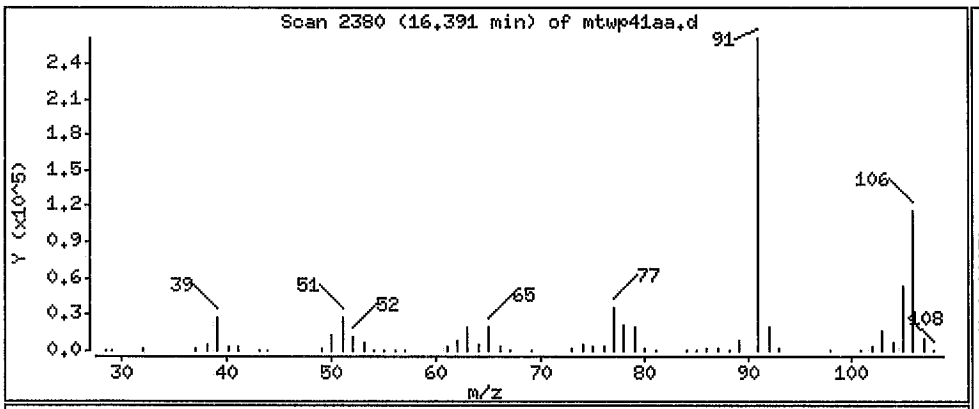
Operator: 7126

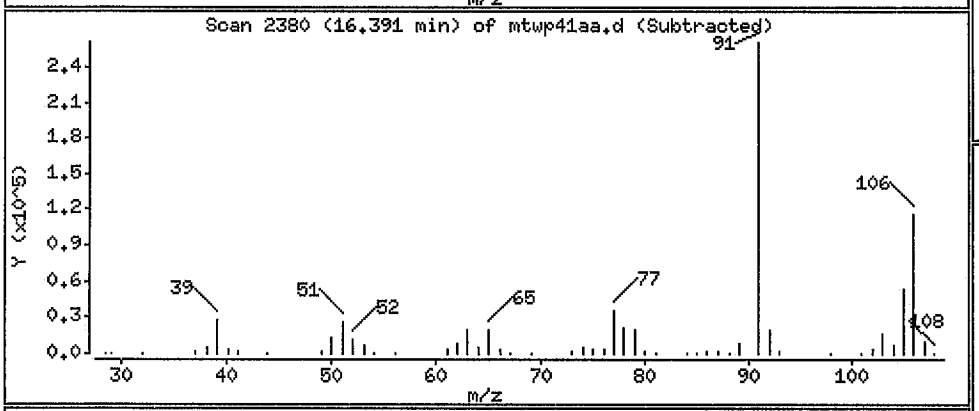
Column phase: Rtx-5

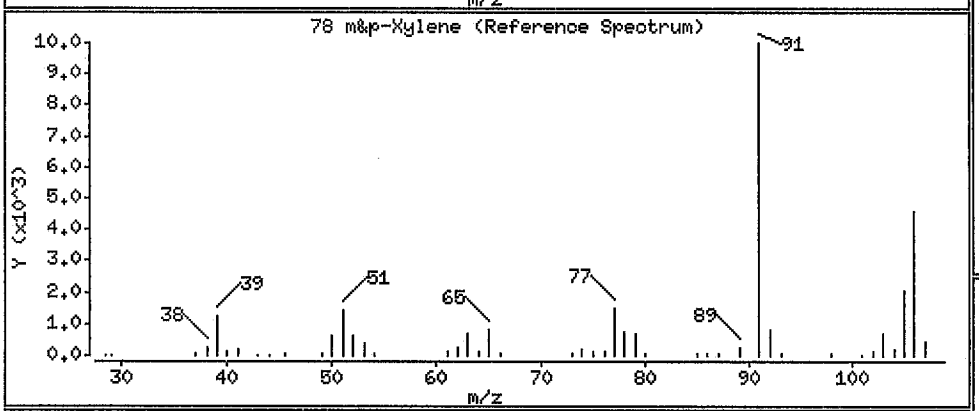
Column diameter: 0.32

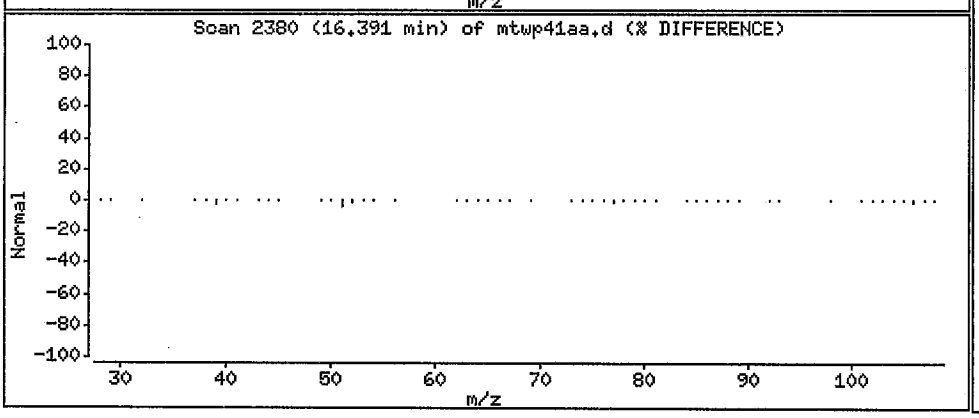
78 m&p-Xylene

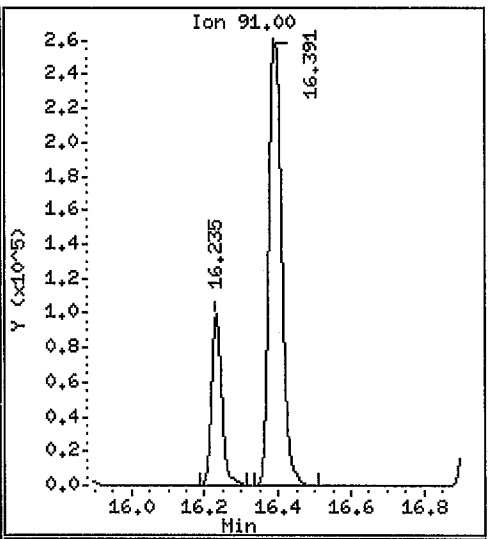
Concentration: 5.420 ppb(v/v)

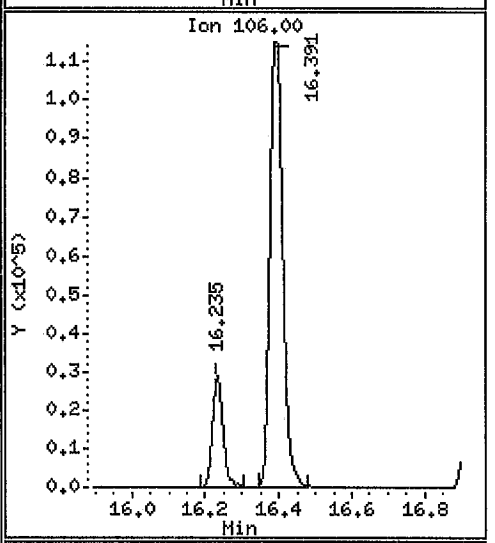


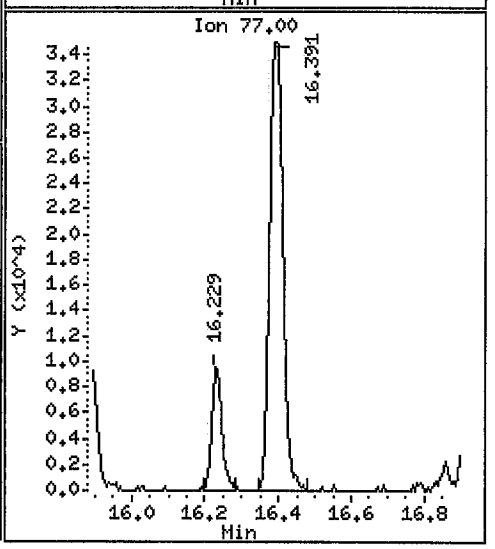












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

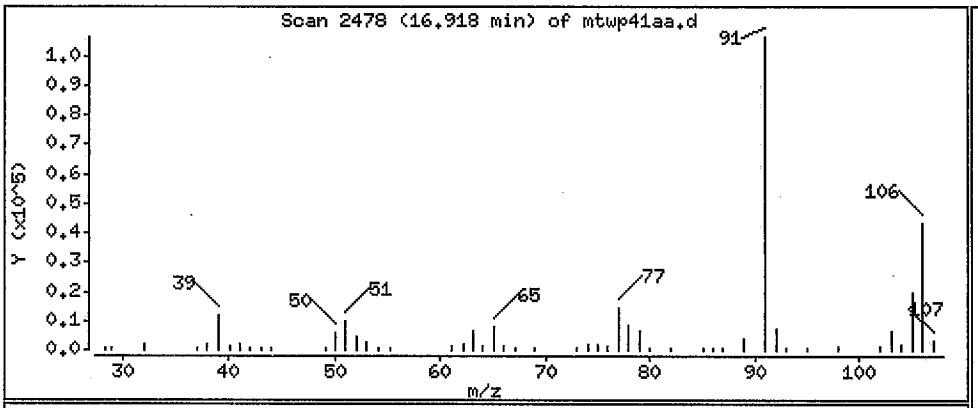
Operator: 7126

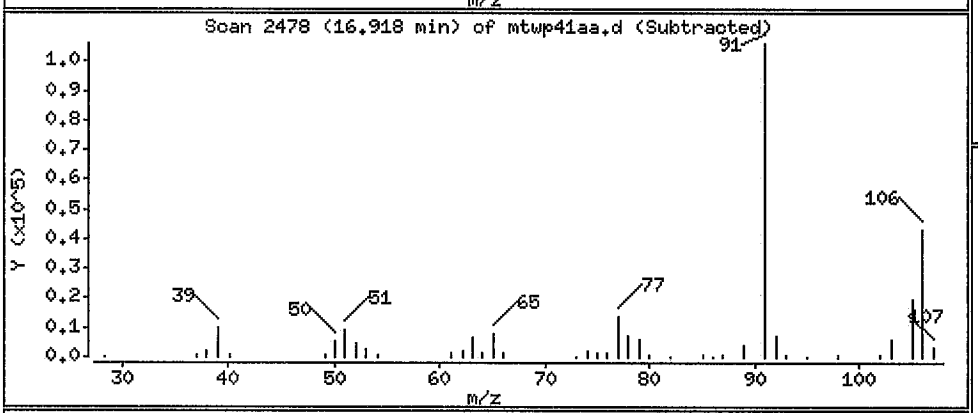
Column phase: Rtx-5

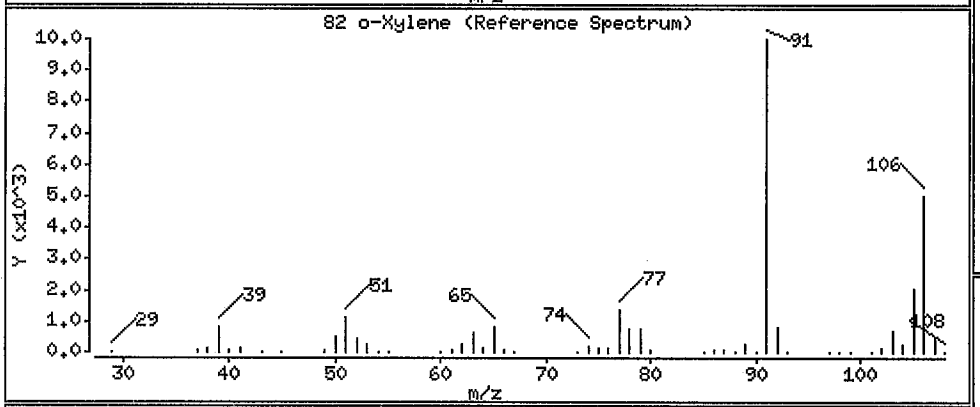
Column diameter: 0.32

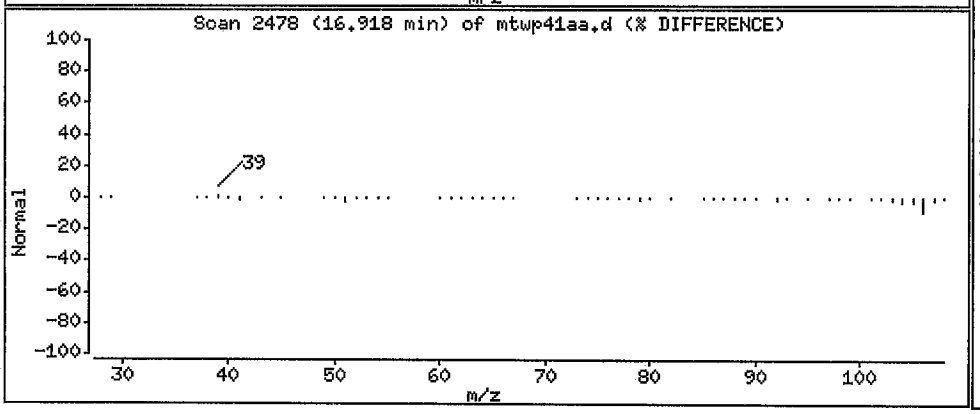
82 o-Xylene

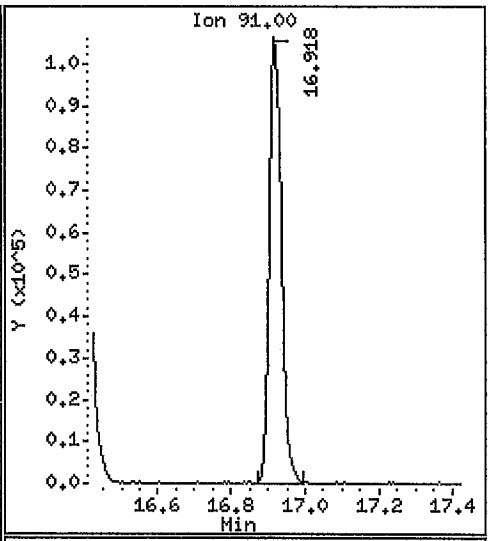
Concentration: 1.980 ppb(v/v)

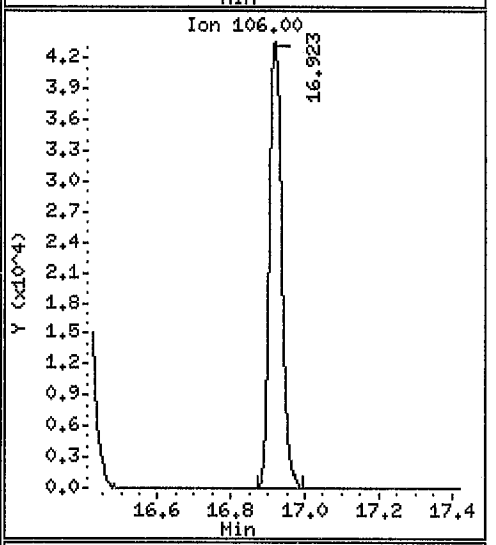


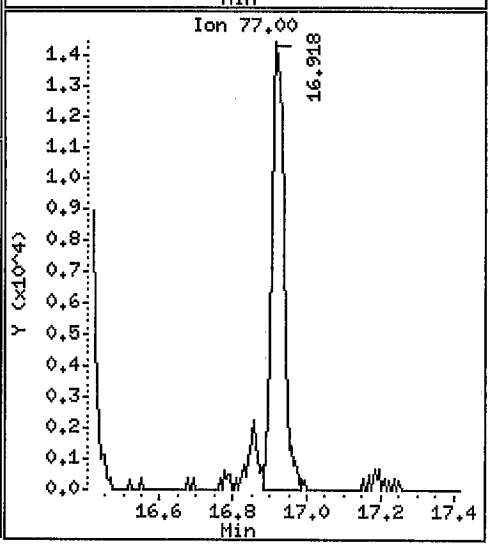












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

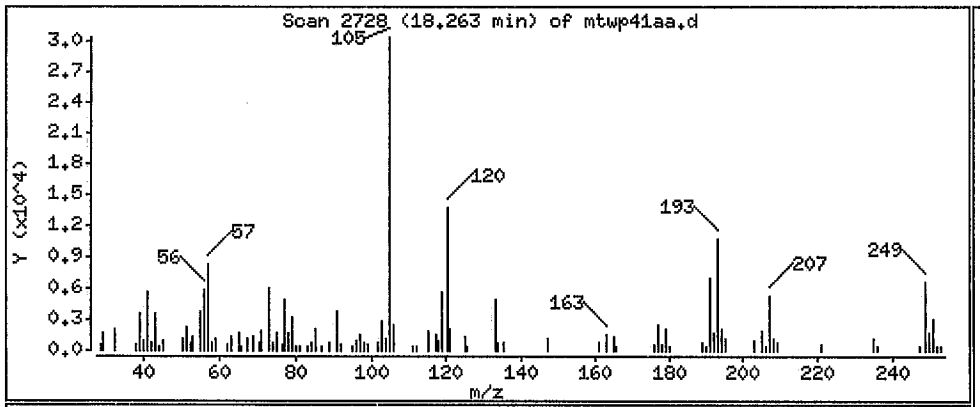
Operator: 7126

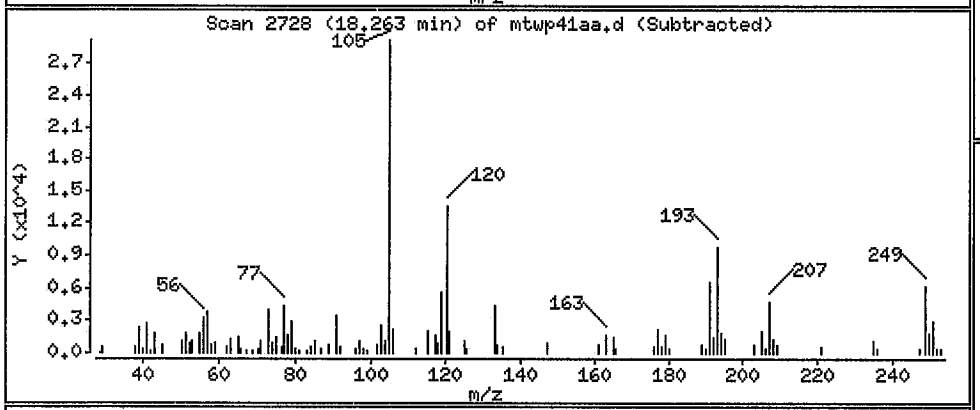
Column phase: Rtx-5

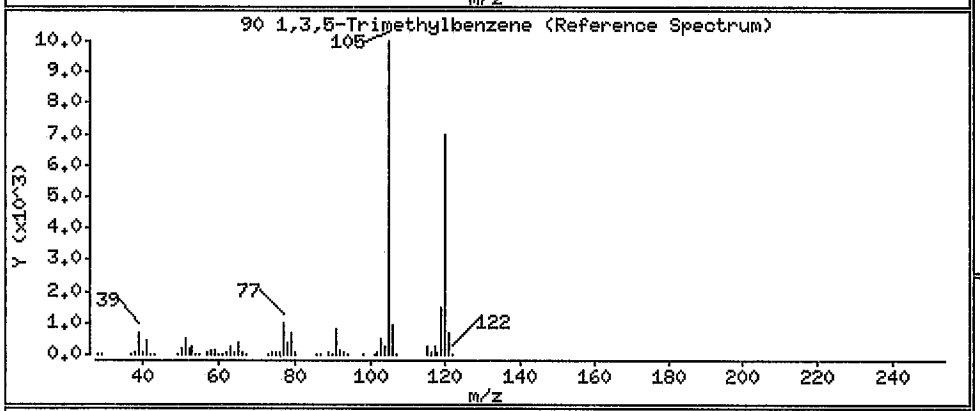
Column diameter: 0.32

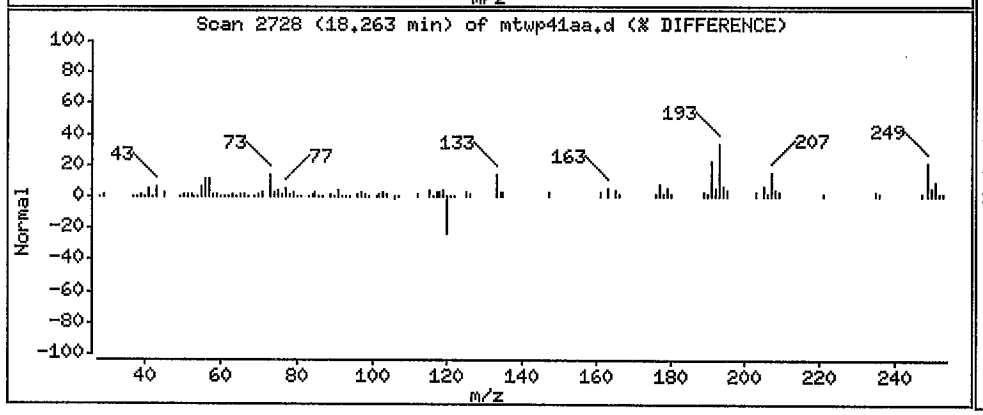
90 1,3,5-Trimethylbenzene

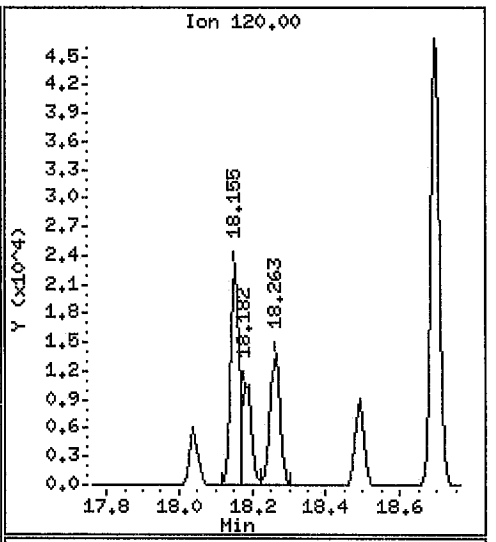
Concentration: 0.3861 ppb(v/v)

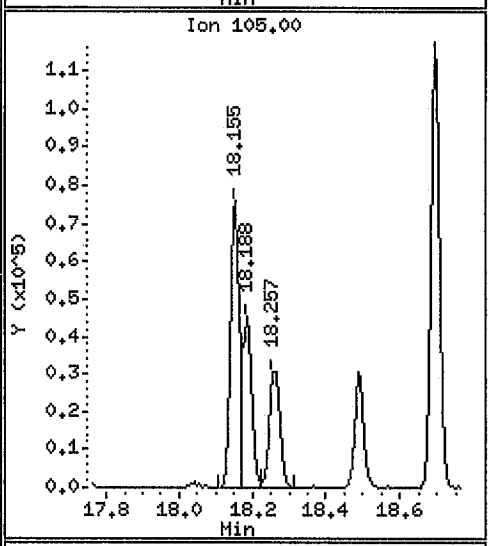


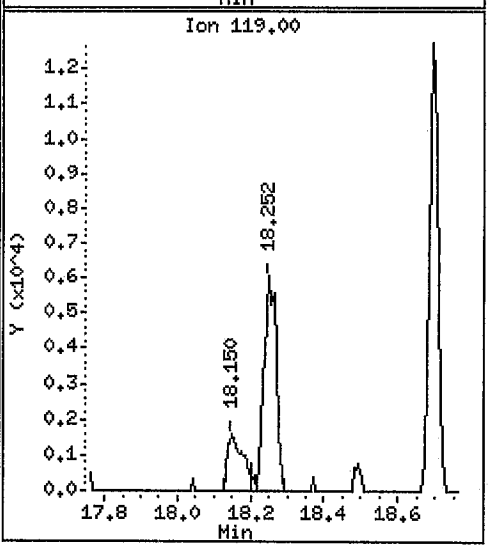












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

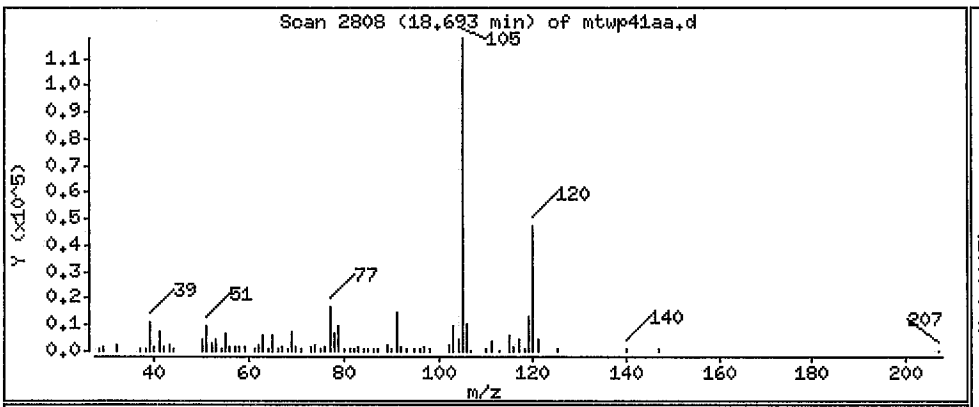
Operator: 7126

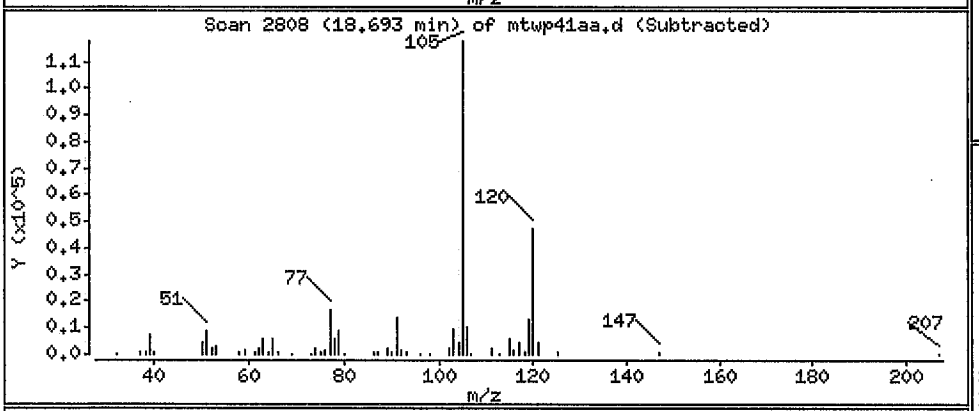
Column phase: Rtx-5

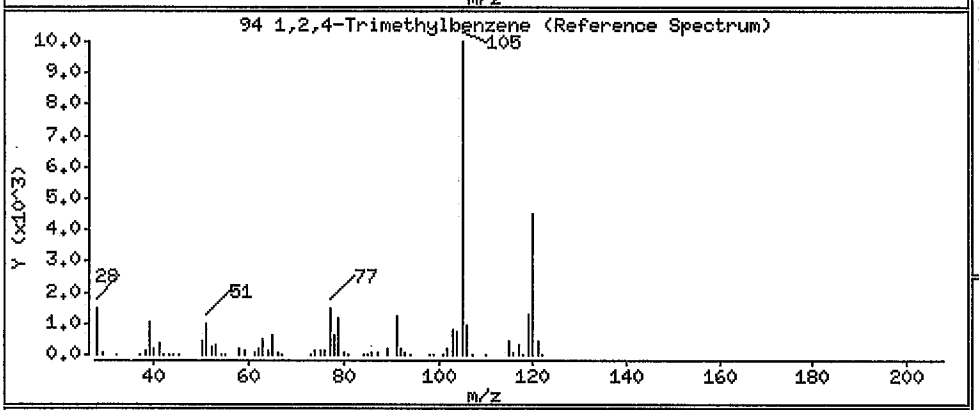
Column diameter: 0.32

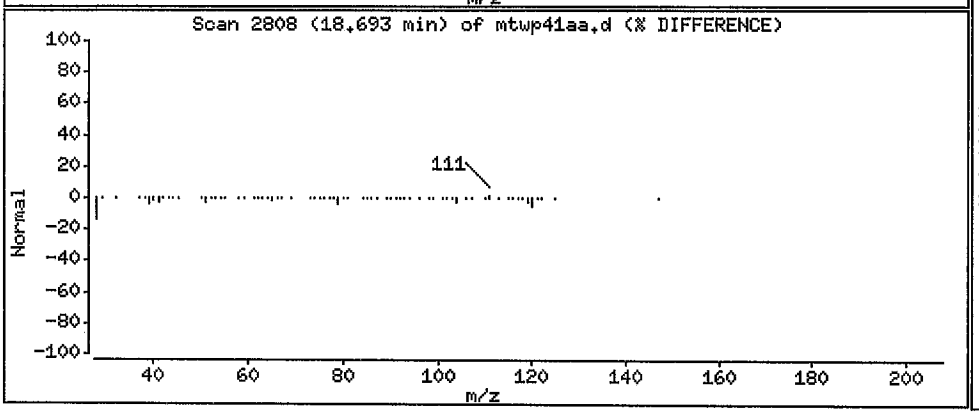
94 1,2,4-Trimethylbenzene

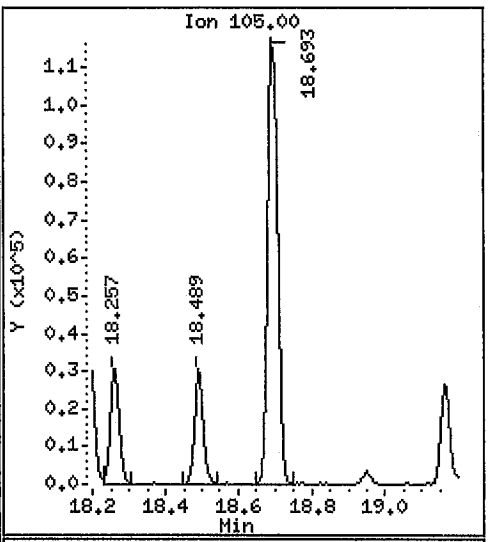
Concentration: 1.668 ppb(v/v)

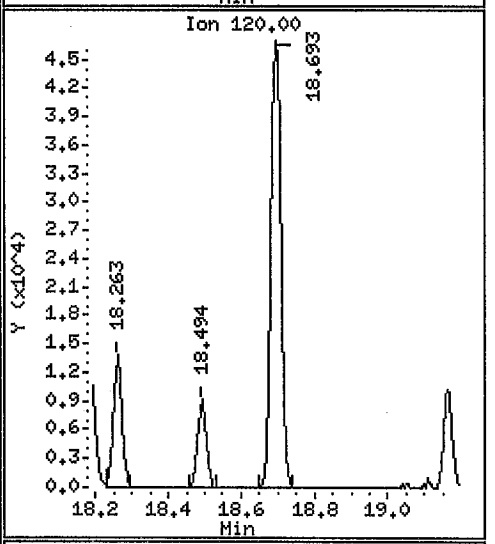


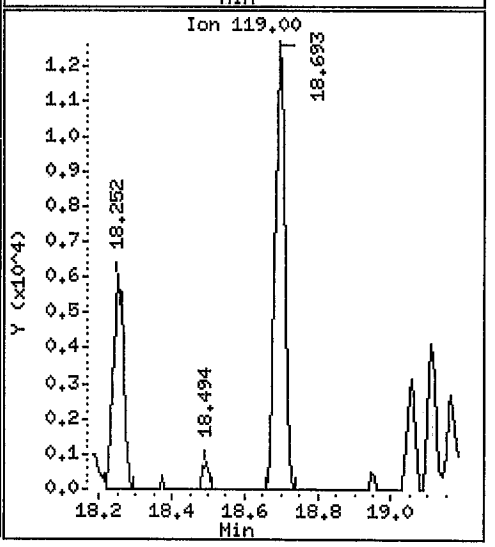












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp41aa.d

Date : 05-JUN-2012 12:57

Client ID: HOUSE # 4 SS DUP

Instrument: mj.i

Sample Info: ,3.5,0,,,

Purge Volume: 500.0

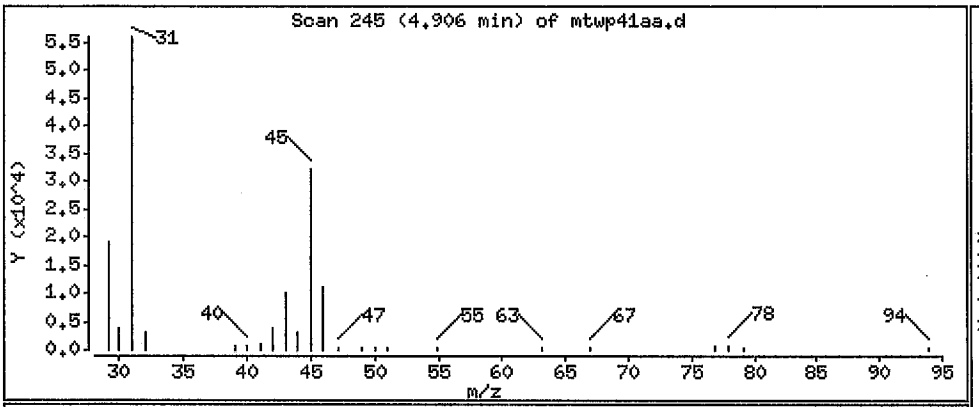
Operator: 7126

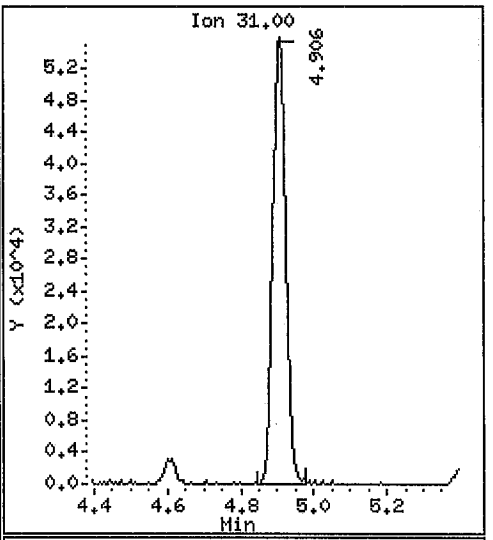
Column phase: Rtx-5

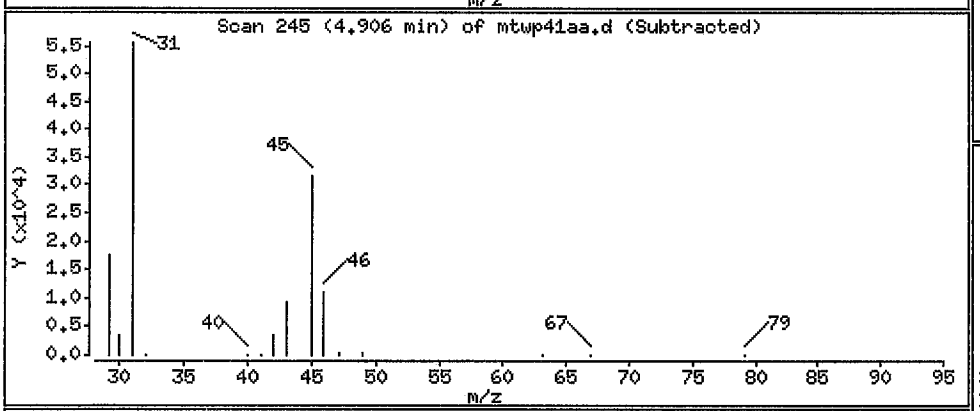
Column diameter: 0.32

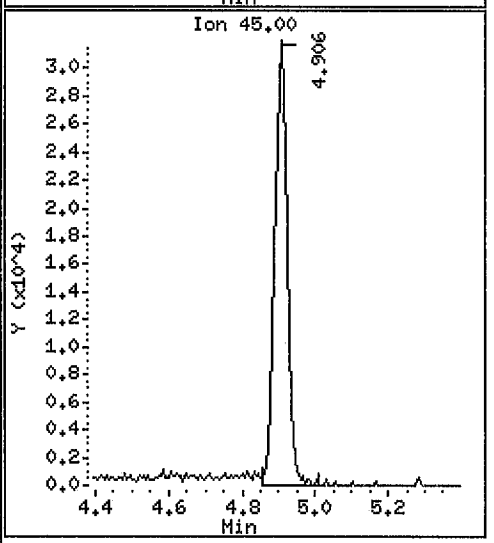
17 ^ ethanol

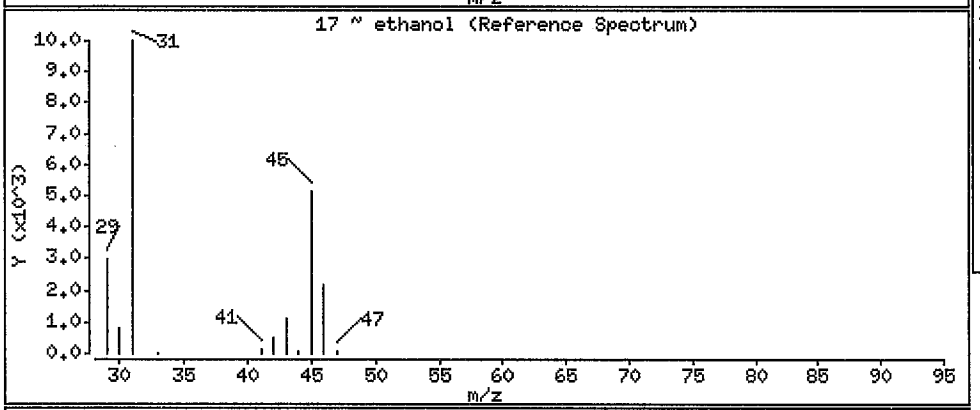
Concentration: 11.85 ppb(v/v)

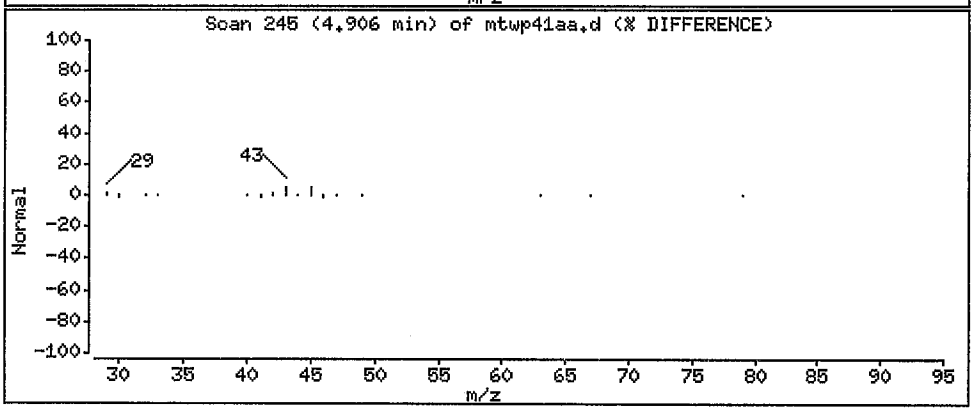












New York State D.E.C.

Client Sample ID: HOUSE # 4 INDOOR

GC/MS Volatiles

Lot-Sample # H2E310431 - 003 **Work Order #** MTWP71AA **Matrix.....:** AIR

Date Sampled...: 05/30/2012 **Date Received..:** 05/31/2012
Prep Date.....: 06/05/2012 **Analysis Date...** 06/05/2012
Prep Batch #.....: 2156111
Dilution Factor.: 5 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.40	ND	2.2
1,1,2,2-Tetrachloroethane	ND	0.40	ND	2.7
1,1,2-Trichlorotrifluoroethane	ND	0.40	ND	3.1
1,1,2-Trichloroethane	ND	0.40	ND	2.2
1,1-Dichloroethane	ND	0.40	ND	1.6
1,1-Dichloroethene	ND	0.40	ND	1.6
1,2,4-Trichlorobenzene	ND	0.40	ND	3.0
1,2,4-Trimethylbenzene	**8.8**	**0.40**	**43**	**2.0**
1,2-Dibromoethane (EDB)	ND	0.40	ND	3.1
1,2-Dichlorobenzene	ND	0.40	ND	2.4
1,2-Dichloroethane	ND	0.40	ND	1.6
1,2-Dichloropropane	ND	0.40	ND	1.8
1,3,5-Trimethylbenzene	**1.9**	**0.40**	**9.5**	**2.0**
1,4-Dichlorobenzene	ND	0.40	ND	2.4
1,4-Dioxane	ND	1.0	ND	3.6
2-Butanone (MEK)	**7.2**	**1.6**	**21**	**4.7**
1,3-Dichlorobenzene	ND	0.40	ND	2.4
2,2,4-Trimethylpentane	**7.2**	**1.0**	**34**	**4.7**
Benzene	**9.2**	**0.40**	**30**	**1.3**
Benzyl chloride	ND	0.80	ND	4.1
Bromodichloromethane	ND	0.40	ND	2.7
Bromoform	ND	0.40	ND	4.1
Bromomethane	ND	0.40	ND	1.6
Carbon tetrachloride	ND	0.20	ND	1.3
Chlorobenzene	ND	0.40	ND	1.8
Chloroethane	ND	0.40	ND	1.1
Chloroform	**0.59**	**0.40**	**2.9**	**2.0**
Cyclohexane	**3.6**	**1.0**	**13**	**3.4**
Chloromethane	ND	1.0	ND	2.1
cis-1,2-Dichloroethene	ND	0.40	ND	1.6
cis-1,3-Dichloropropene	ND	0.40	ND	1.8
Dibromochloromethane	ND	0.40	ND	3.4
Dichlorodifluoromethane	**0.42**	**0.40**	**2.1**	**2.0**
Ethanol	**150**	**4.0**	**280**	**7.5**
Ethylbenzene	**11**	**0.40**	**47**	**1.7**
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.40	ND	2.8
n-Hexane	**17**	**1.0**	**60**	**3.5**
Hexachlorobutadiene	ND	0.40	ND	4.3

New York State D.E.C.

Client Sample ID: HOUSE # 4 INDOOR

GC/MS Volatiles

Lot-Sample # H2E310431 - 003 **Work Order #** MTWP71AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	1.0	ND	4.1
Methyl tert-butyl ether	ND	0.80	ND	2.9
Methylene chloride	ND	1.0	ND	3.5
Styrene	ND	0.40	ND	1.7
tert-Butyl alcohol	ND	1.6	ND	4.9
Tetrachloroethene	ND	0.40	ND	2.7
Toluene	**53**	**0.40**	**200**	**1.5**
m-Xylene & p-Xylene	**38**	**0.40**	**170**	**1.7**
o-Xylene	**15**	**0.40**	**66**	**1.7**
trans-1,2-Dichloroethene	**0.41**	**0.40**	**1.6**	**1.6**
trans-1,3-Dichloropropene	ND	0.40	ND	1.8
Trichloroethene	ND	0.20	ND	1.1
Trichlorofluoromethane	ND	0.40	ND	2.2
Vinyl chloride	ND	0.40	ND	1.0

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	96	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d
Lab Smp Id: MTWP71AA Client Smp ID: HOUSE # 4 INDOOR
Inj Date : 05-JUN-2012 13:51
Operator : 7126 Inst ID: mj.i
Smp Info : ,5,0,,,
Misc Info : J060512,TO15,nysdec.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J060512.b/TO15.m
Meth Date : 06-Jun-2012 11:48 barlozha Quant Type: ISTD
Cal Date : 24-MAY-2012 13:43 Cal File: jice241.d
Als bottle: 17
Dil Factor: 5.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	5.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
* 1	Bromochloromethane	128	8.989	8.987	(1.000)	400183	4.00000	4.000
* 2	1,4-Difluorobenzene	114	11.168	11.171	(1.000)	1820124	4.00000	4.000
* 3	Chlorobenzene-d5	117	15.896	15.894	(1.000)	1620622	4.00000	4.000
$ 4	4-Bromofluorobenzene	95	17.532	17.529	(1.103)	1230008	3.84457	3.844
7	Dichlorodifluoromethane	85	3.911	3.903	(0.435)	46852	0.08437	0.4218
34	trans-1,2-Dichloroethene	96	7.273	7.260	(0.809)	10440	0.08263	0.4132
40	Hexane	56	8.279	8.277	(0.921)	345593	3.40849	17.04
39	2-Butanone	72	8.214	8.212	(0.914)	62889	1.44791	7.240
43	Chloroform	83	9.010	9.003	(1.002)	38032	0.11808	0.5904
49	Cyclohexane	69	10.657	10.654	(0.954)	44184	0.72902	3.645
48	Benzene	78	10.635	10.633	(0.952)	631027	1.84725	9.236
53	2,2,4-trimethylpentane	57	11.410	11.408	(1.022)	814713	1.44648	7.232
65	Toluene	91	13.927	13.930	(0.876)	3887710	10.5029	52.51
76	Ethylbenzene	91	16.235	16.233	(1.021)	1015316	2.16428	10.82
78	m&p-Xylene	91	16.391	16.394	(1.031)	2839049	7.60252	38.01
82	o-Xylene	91	16.918	16.921	(1.064)	1175357	3.05519	15.28

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d
Report Date: 06-Jun-2012 12:26

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
90 1,3,5-Trimethylbenzene	120	18.263	18.261	(1.149)	82947	0.38706	1.935
94 1,2,4-Trimethylbenzene	105	18.693	18.697	(1.176)	717639	1.75552	8.778
17 ~ ethanol	31	4.911	4.893	(0.546)	1105414	30.1742	150.9

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: mtwp71aa.d
Lab Smp Id: MTWP71AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,nysdec.sub,,,

Calibration Date: 05-JUN-2012
Calibration Time: 08:54
Client Smp ID: HOUSE # 4 INDOOR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	373662	222329	524995	400183	7.10
2 1,4-Difluorobenze	1719152	1022895	2415409	1820124	5.87
3 Chlorobenzene-d5	1506917	896616	2117218	1620622	7.55

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.99	0.02
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	-0.03
3 Chlorobenzene-d5	15.89	15.56	16.22	15.90	0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d
Report Date: 06-Jun-2012 12:26

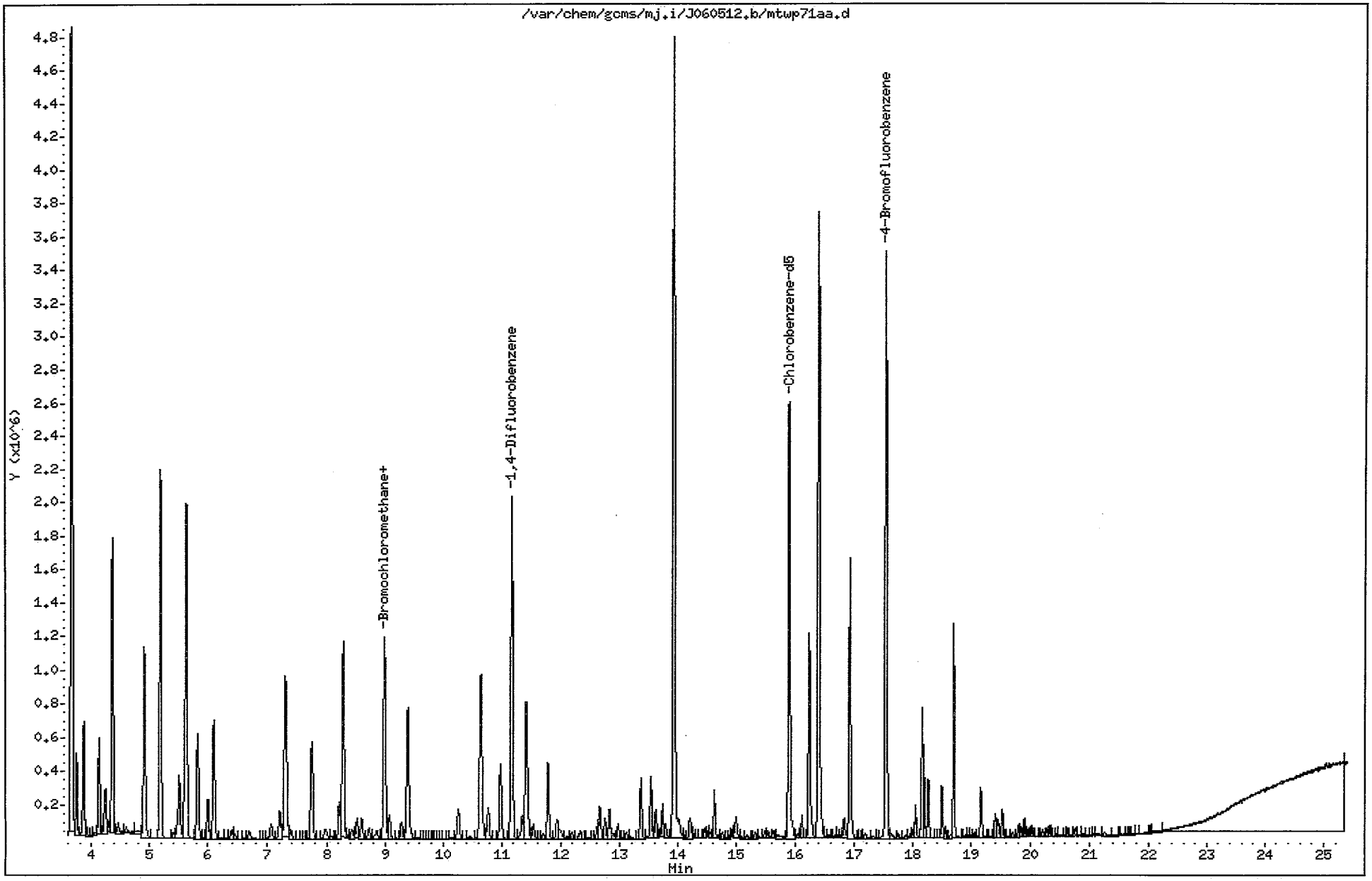
TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C31-MAY-2012 00:00 Client SDG: H2E310431
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MTWP71AA Client Smp ID: HOUSE # 4 INDOOR
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,nysdec.sub,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	3.844	96.11	60-140

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d
Date : 05-JUN-2012 13:51
Client ID: HOUSE # 4 INDOOR
Instrument: mj.i
Sample Info: ,5,0,,,
Purge Volume: 500.0
Operator: 7126
Column phase: Rtx-5
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

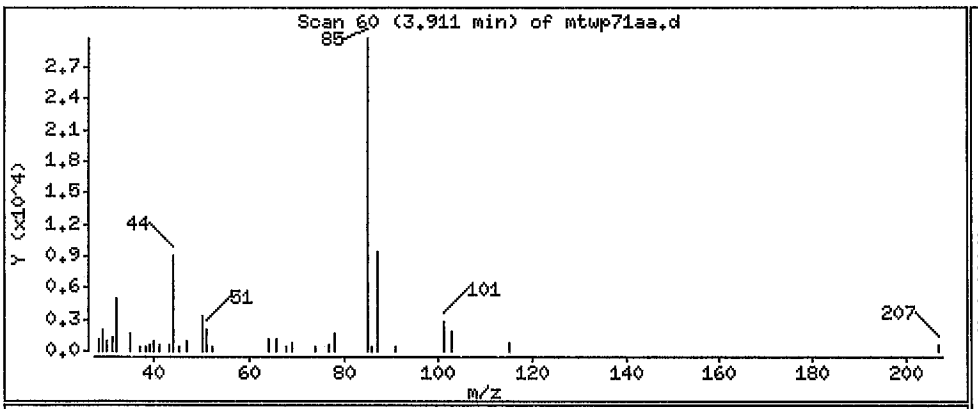
Operator: 7126

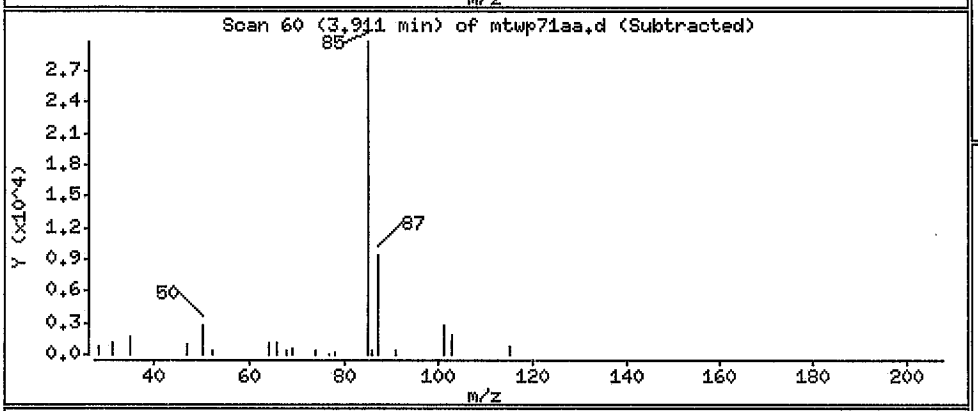
Column phase: Rtx-5

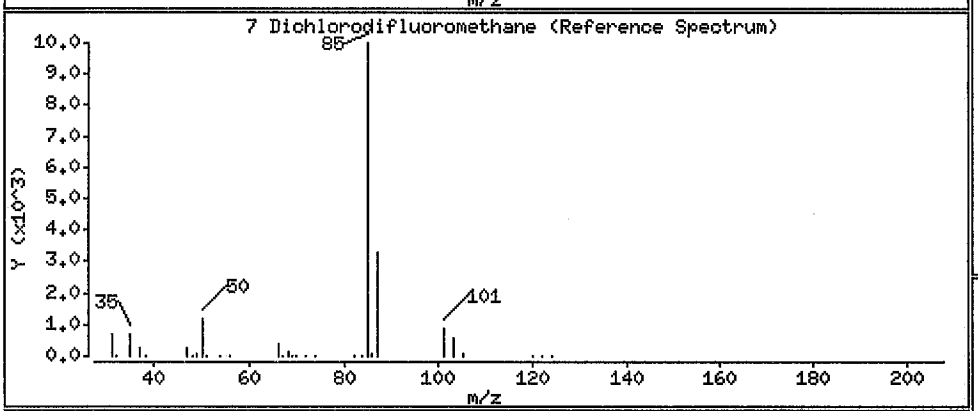
Column diameter: 0.32

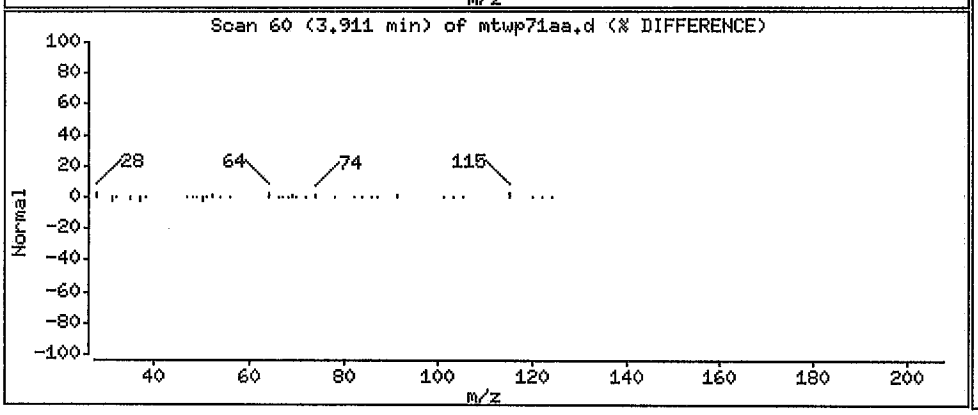
7 Dichlorodifluoromethane

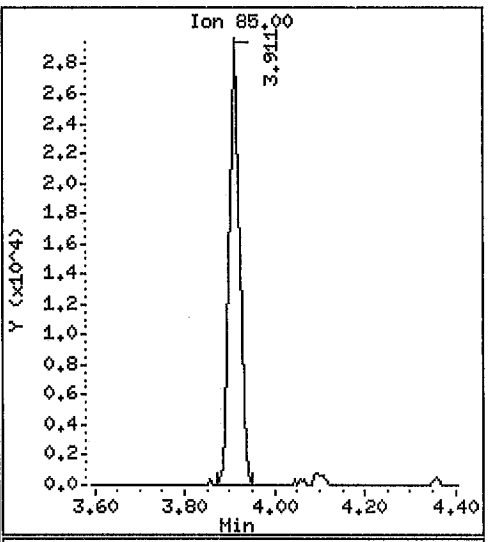
Concentration: 0.4218 ppb(v/v)

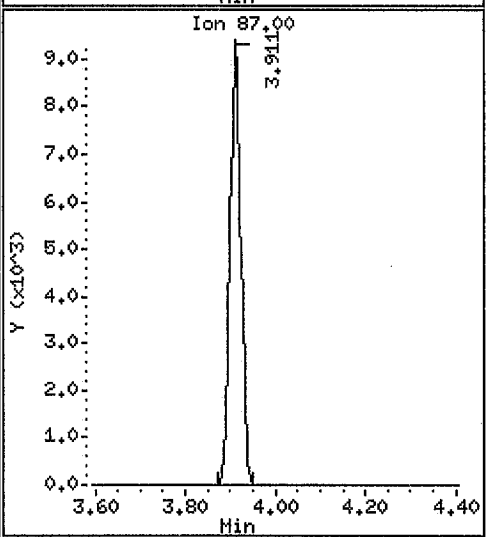


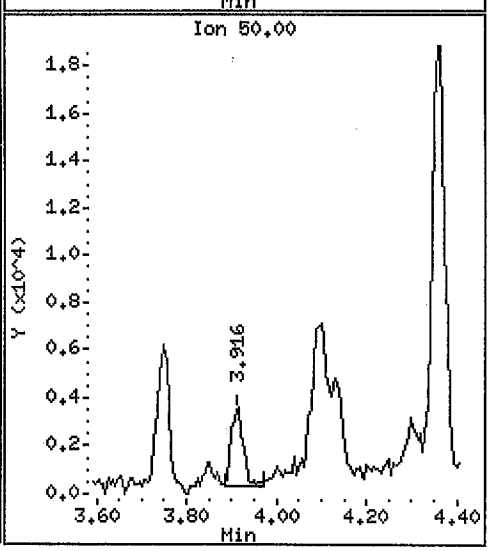












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

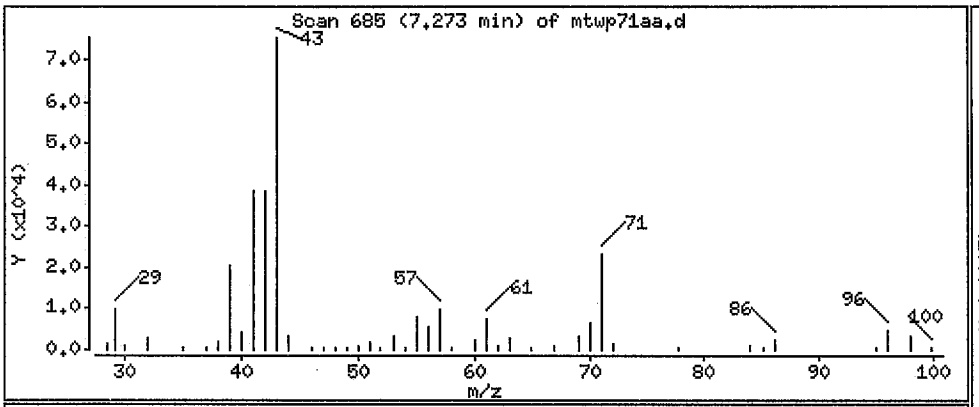
Operator: 7126

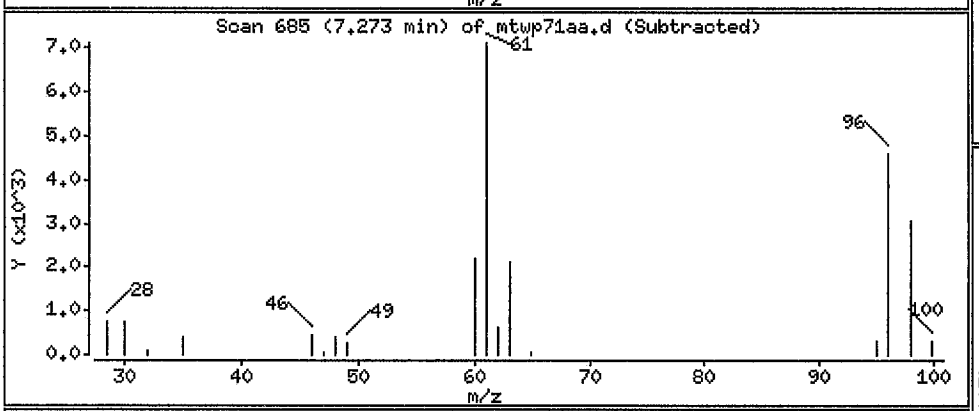
Column phase: Rtx-5

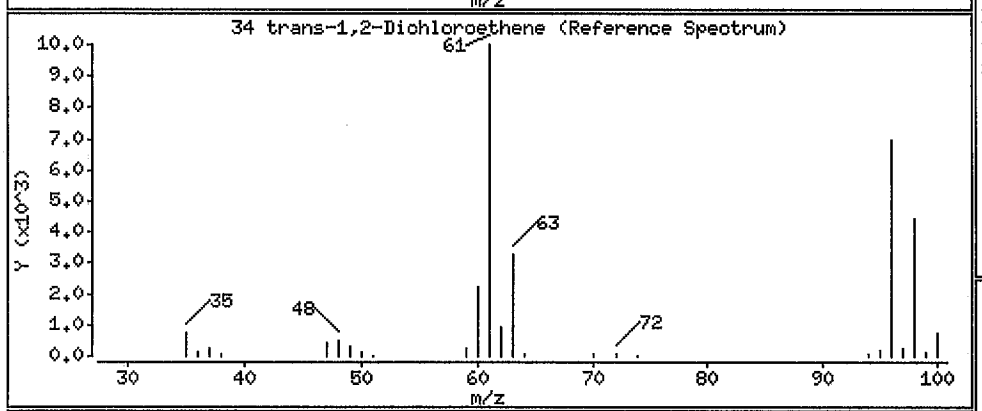
Column diameter: 0.32

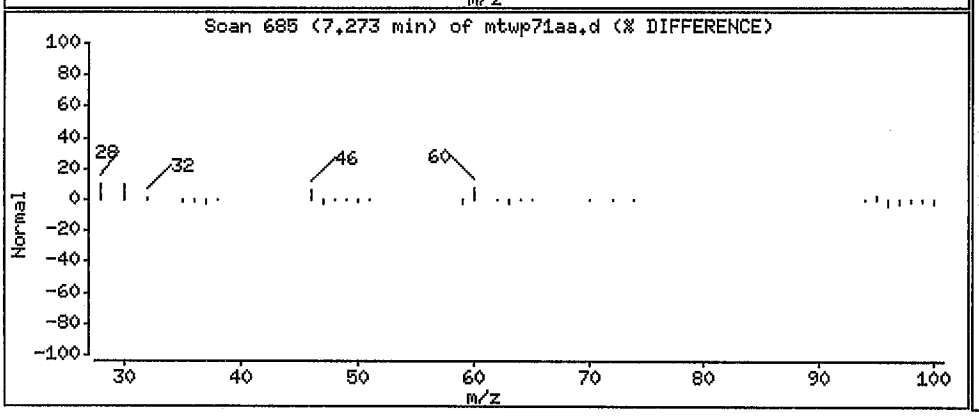
34 trans-1,2-Dichloroethene

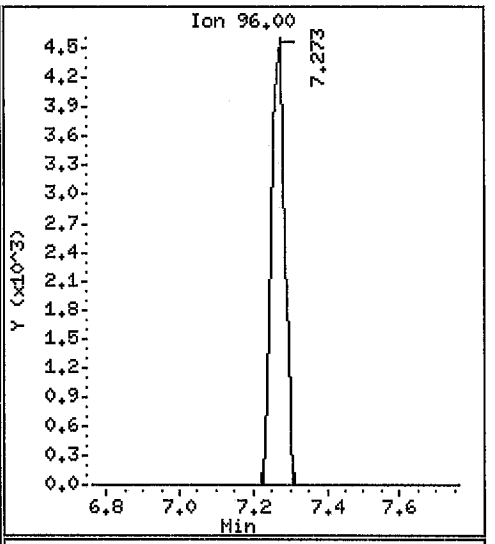
Concentration: 0.4132 ppb(v/v)

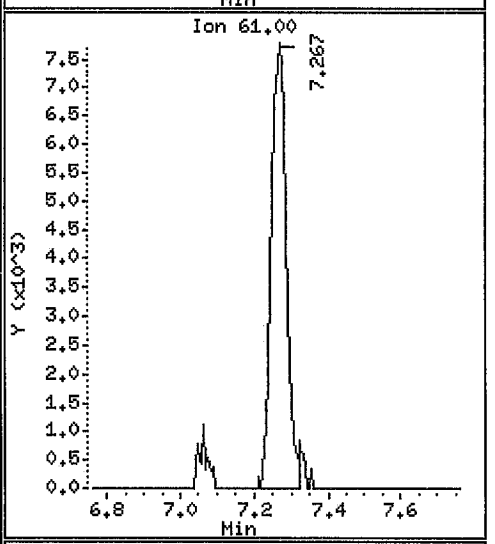


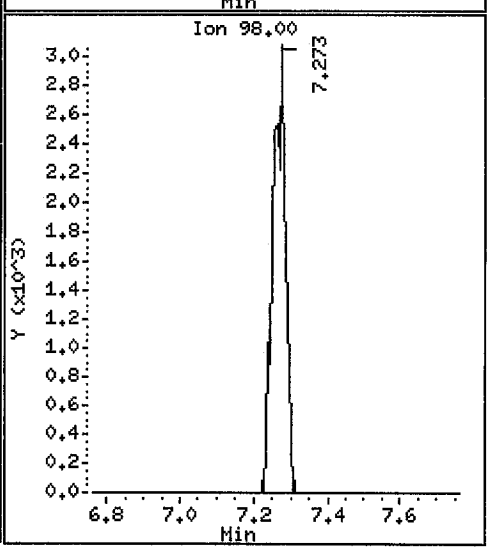












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

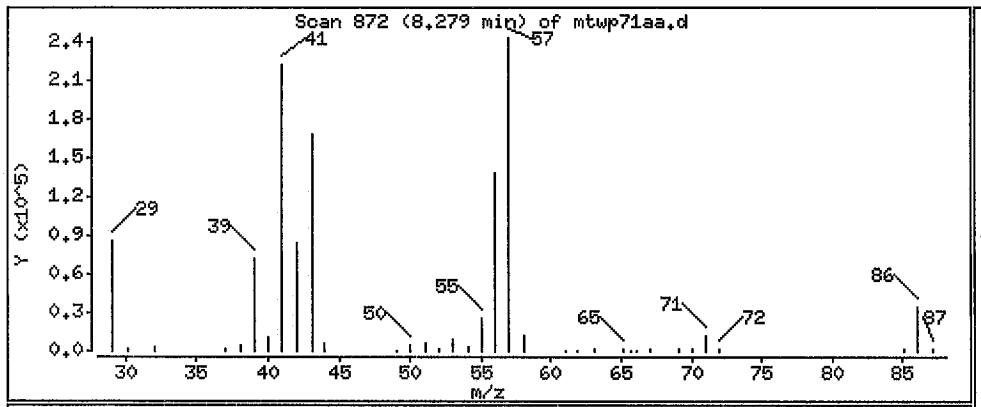
Operator: 7126

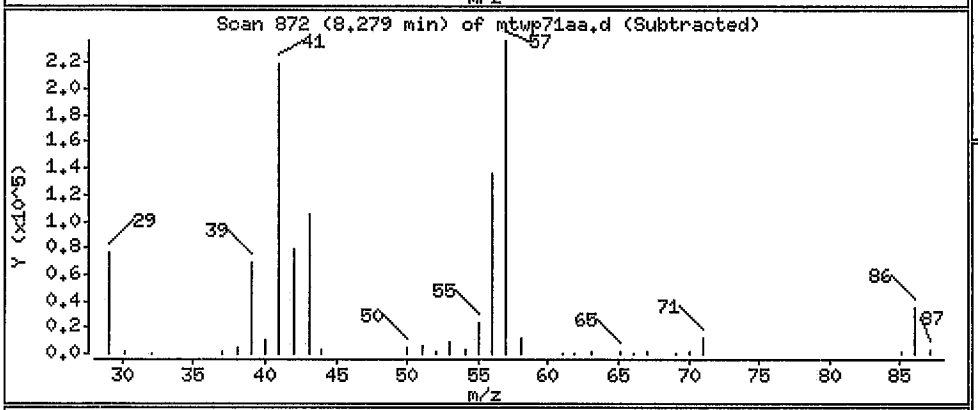
Column phase: Rtx-5

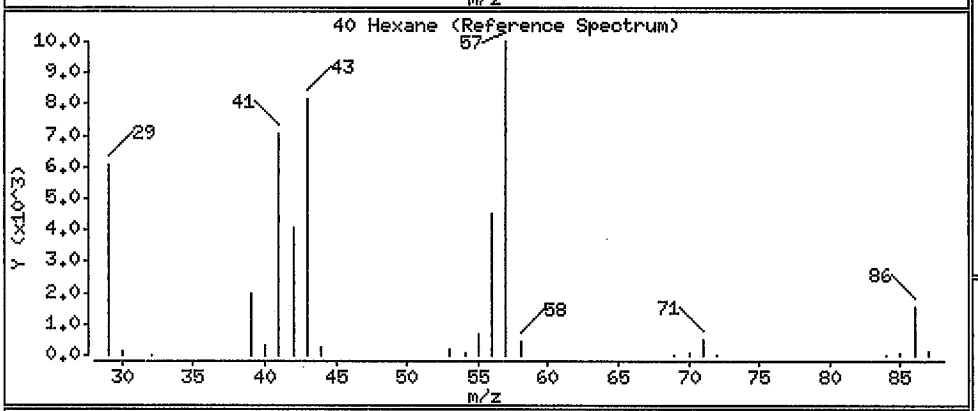
Column diameter: 0.32

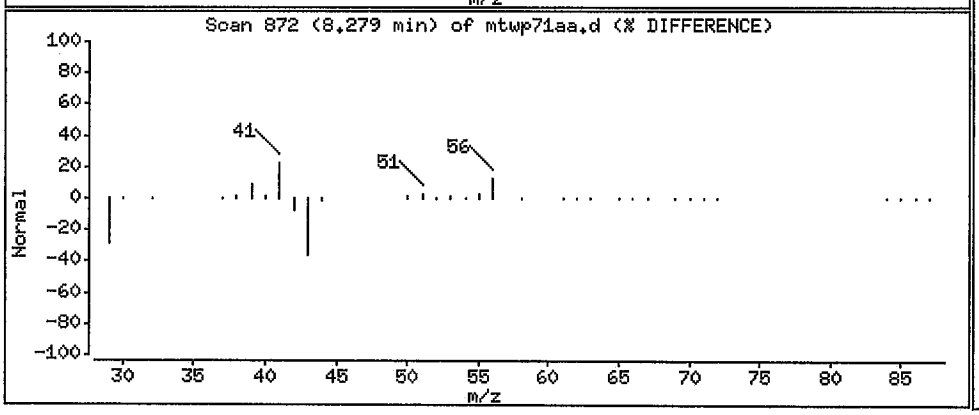
40 Hexane

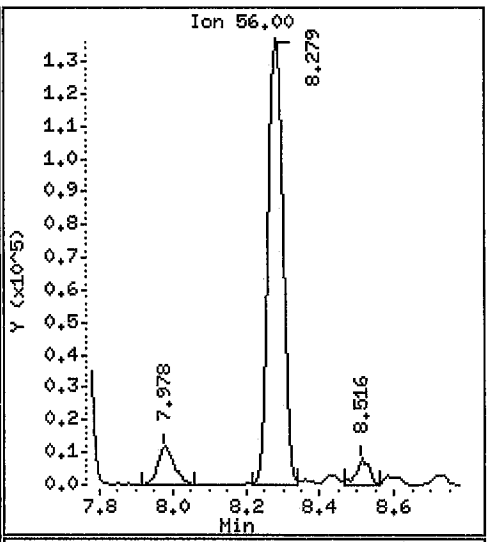
Concentration: 17.04 ppb(v/v)

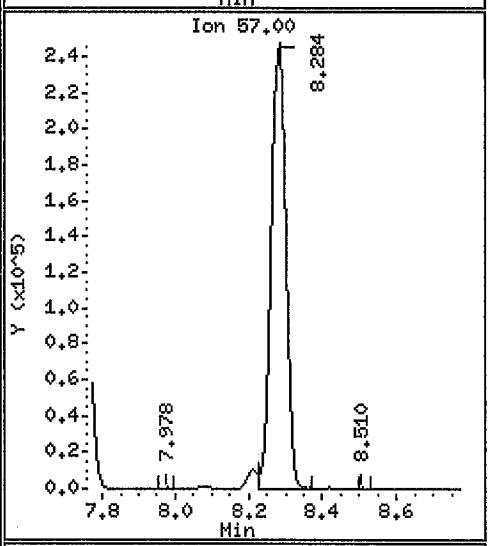


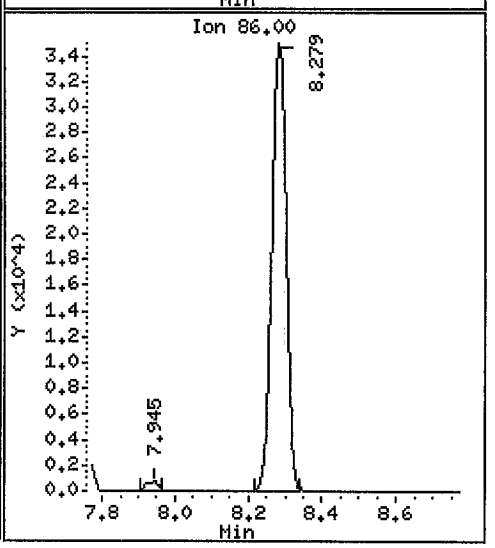












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

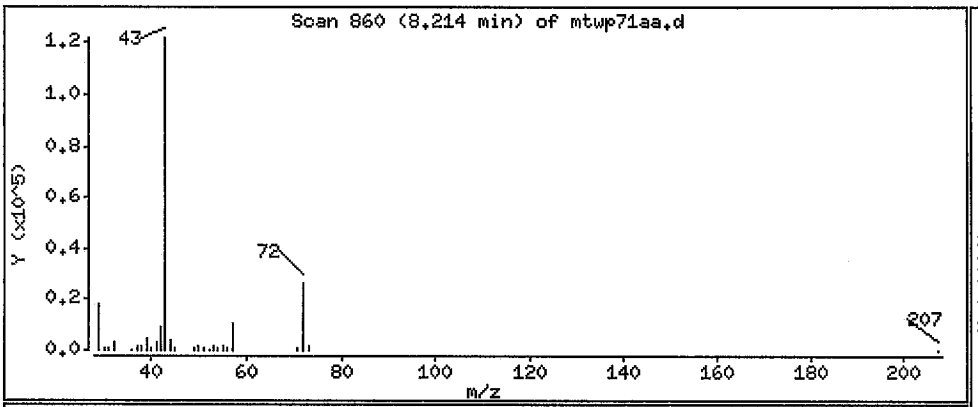
Operator: 7126

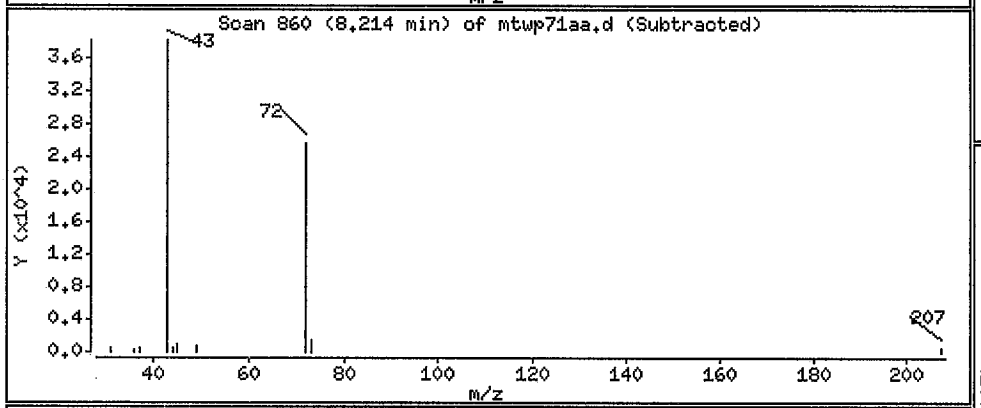
Column phase: Rtx-5

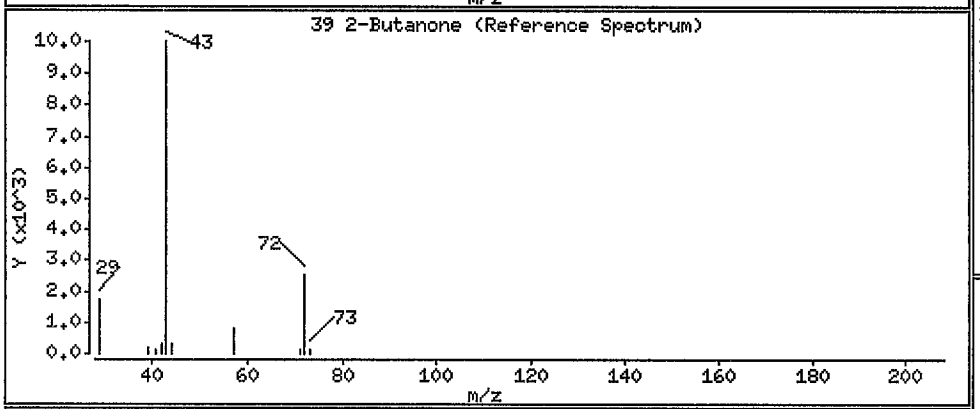
Column diameter: 0.32

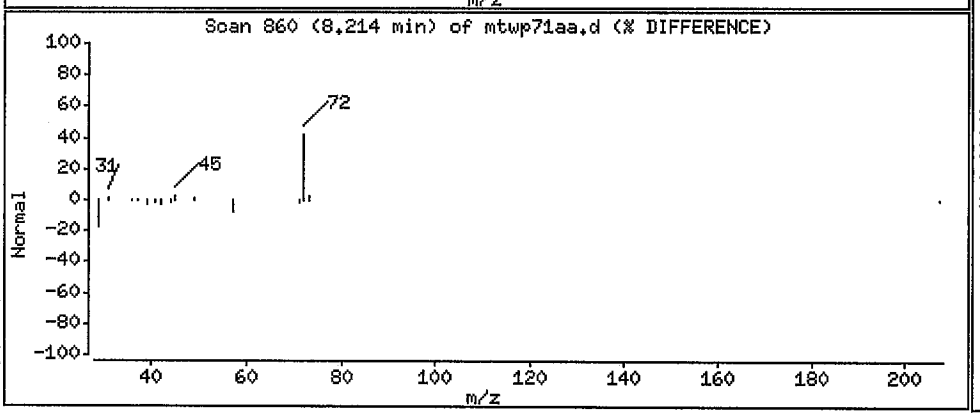
39 2-Butanone

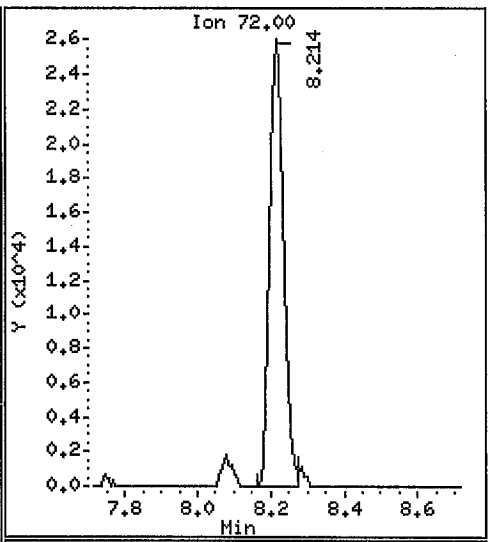
Concentration: 7.240 ppb(v/v)

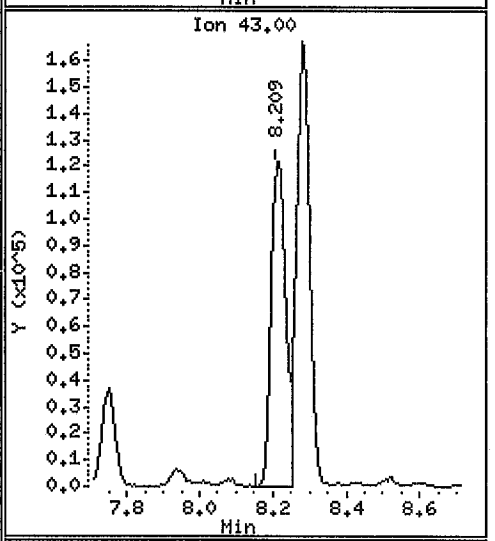


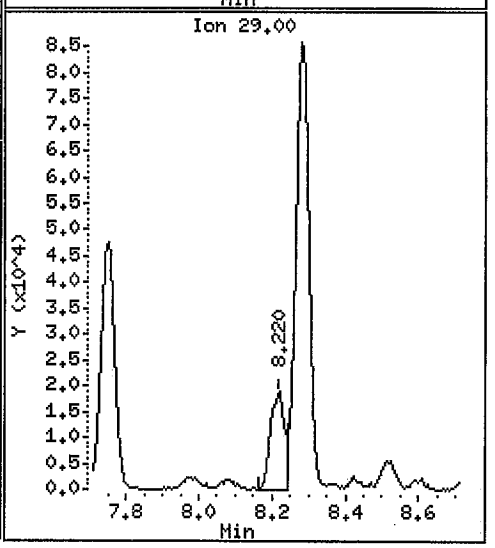












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

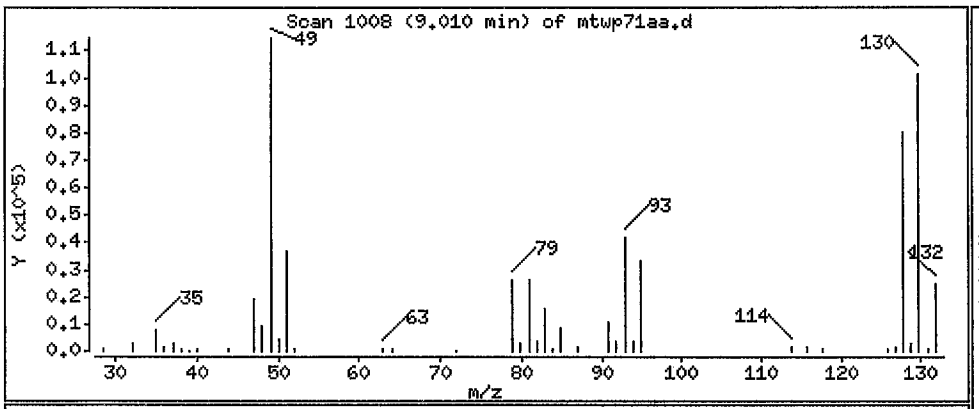
Operator: 7126

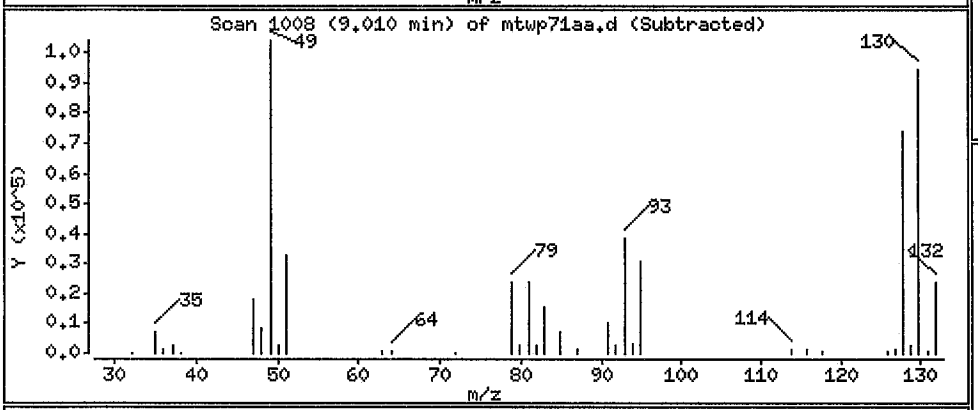
Column phase: Rtx-5

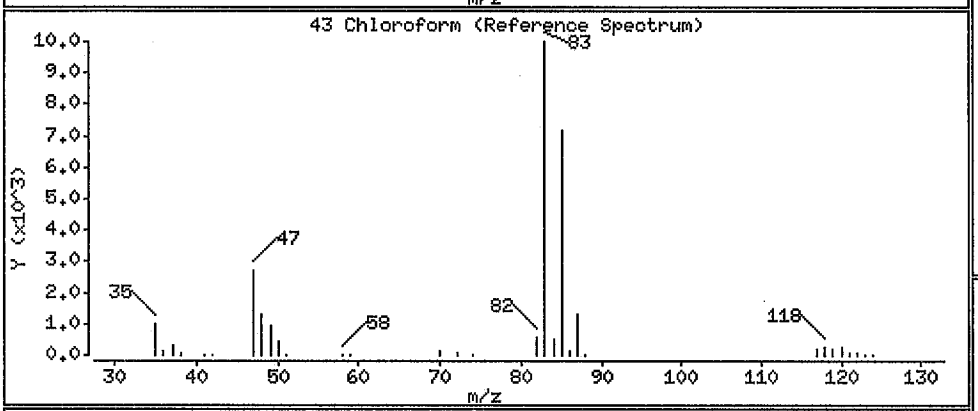
Column diameter: 0.32

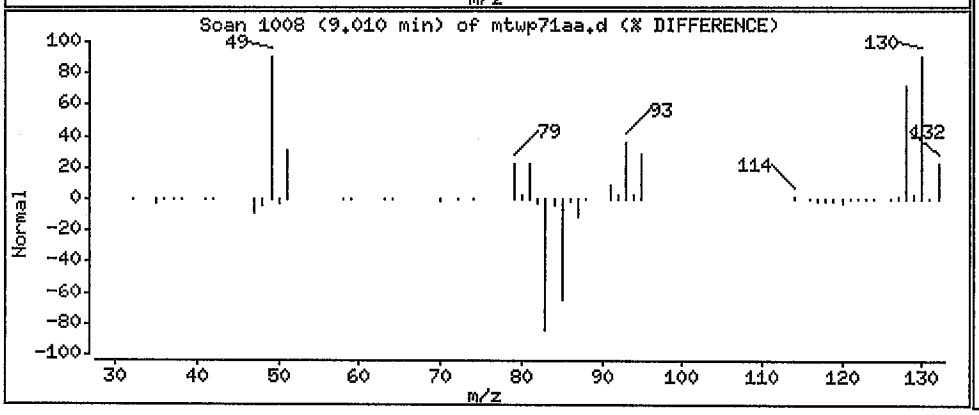
43 Chloroform

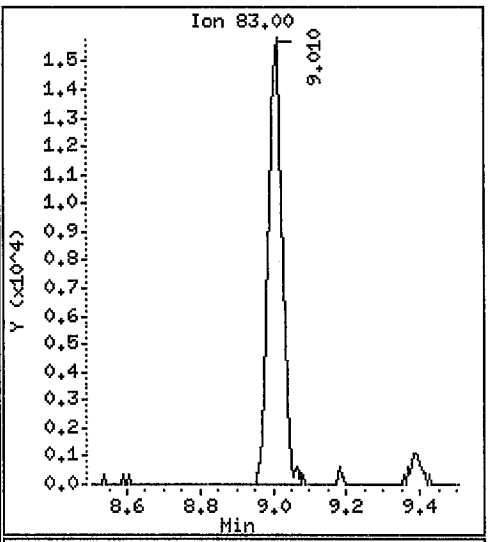
Concentration: 0.5904 ppb(v/v)

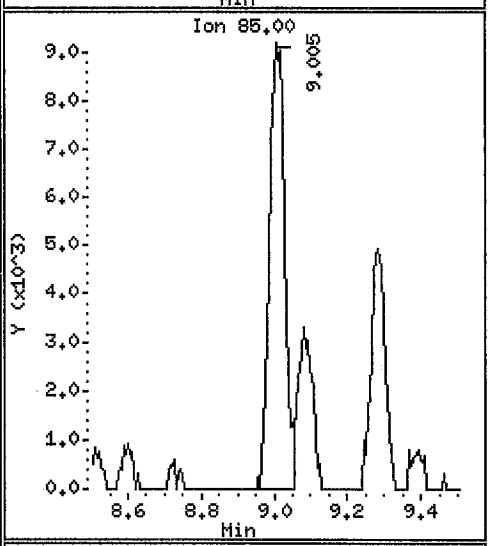


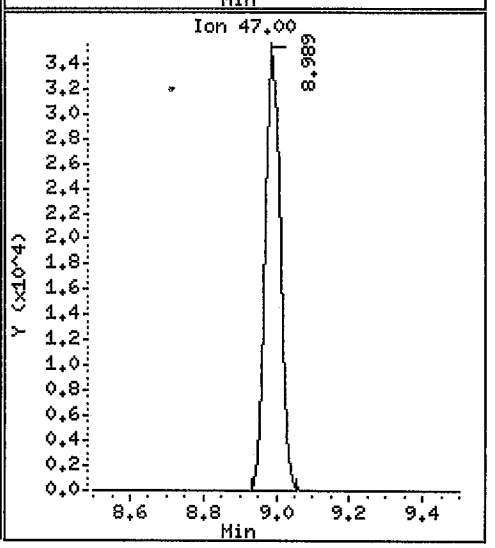












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

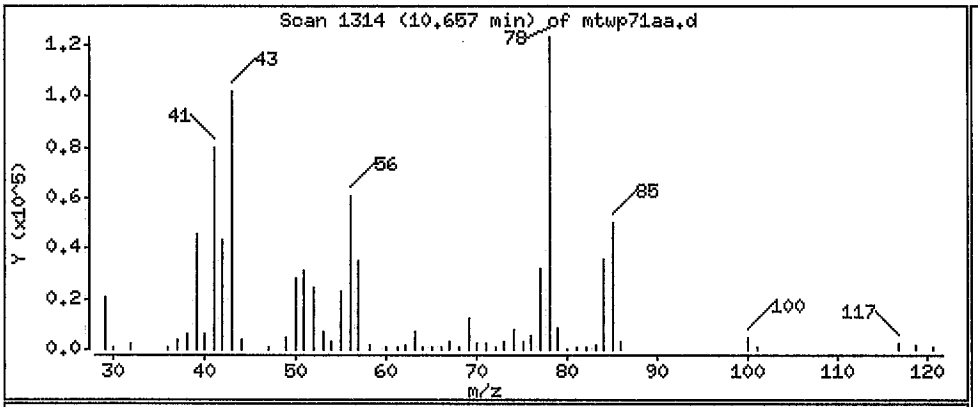
Operator: 7126

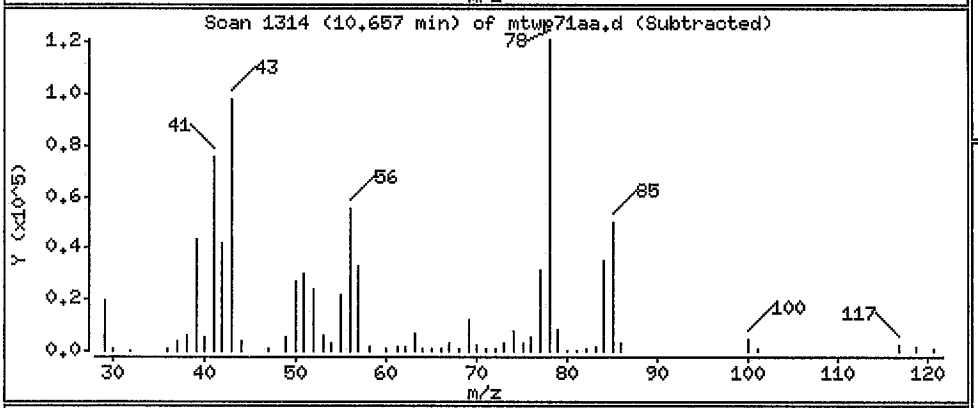
Column phase: Rtx-5

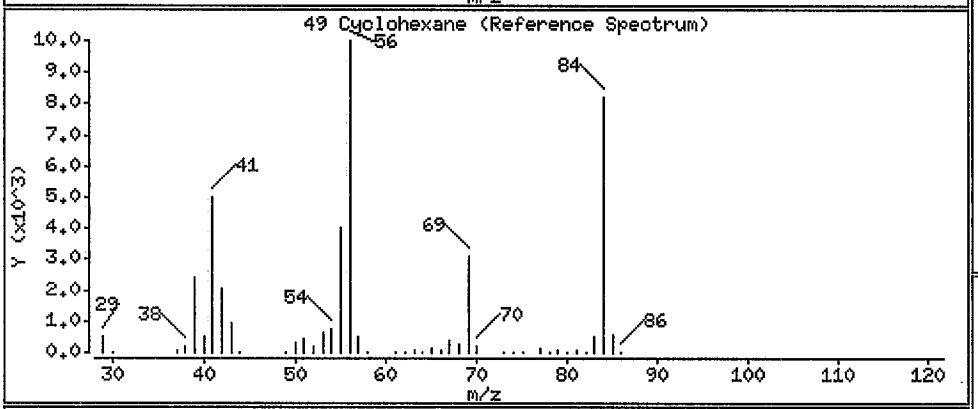
Column diameter: 0.32

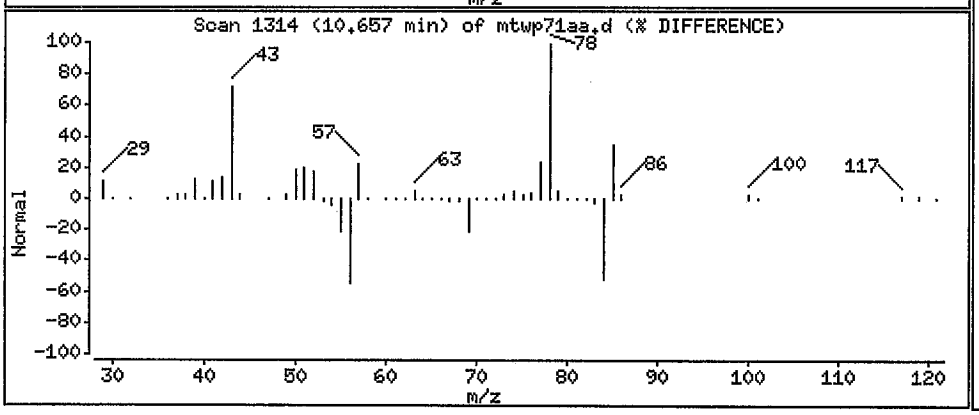
49 Cyclohexane

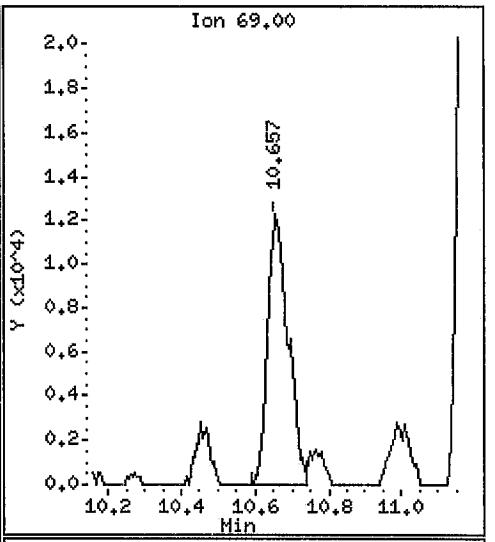
Concentration: 3.645 ppb(v/v)

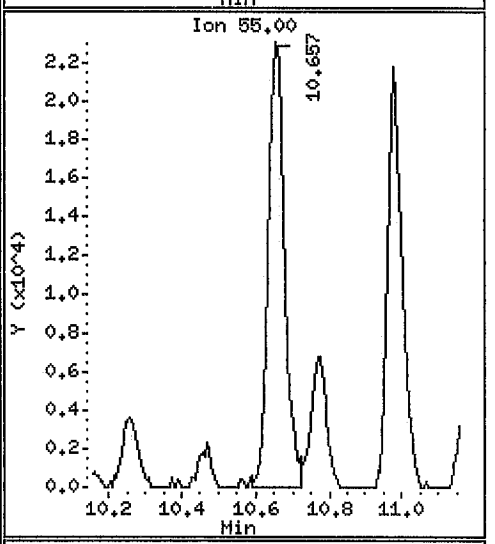


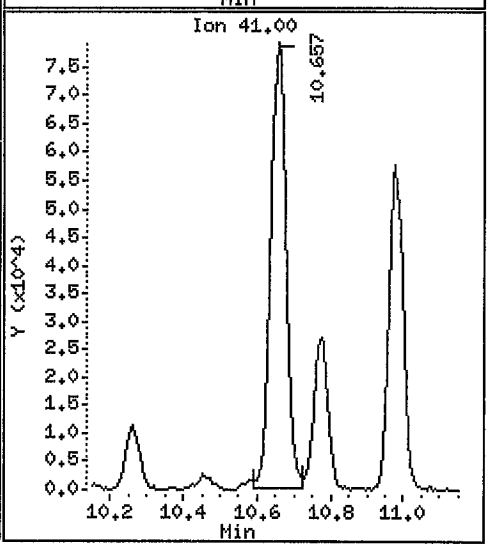












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

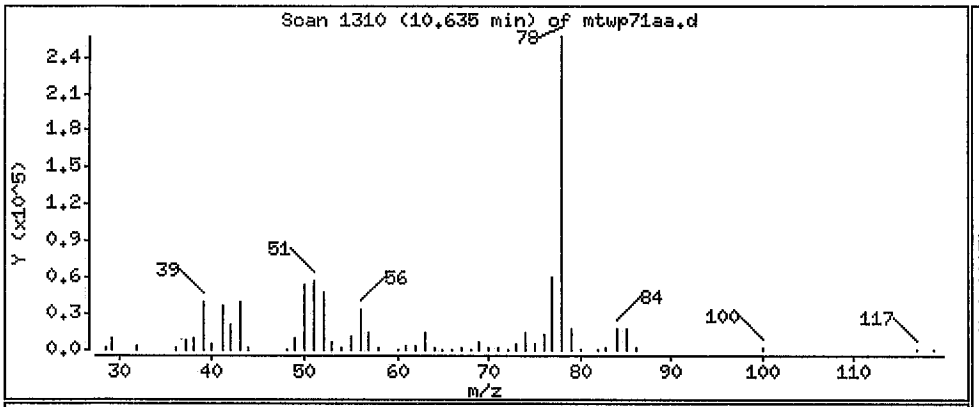
Operator: 7126

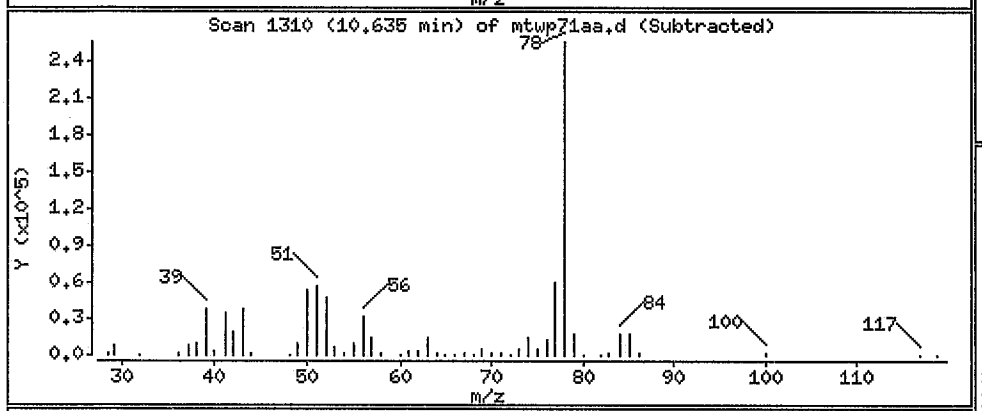
Column phase: Rtx-5

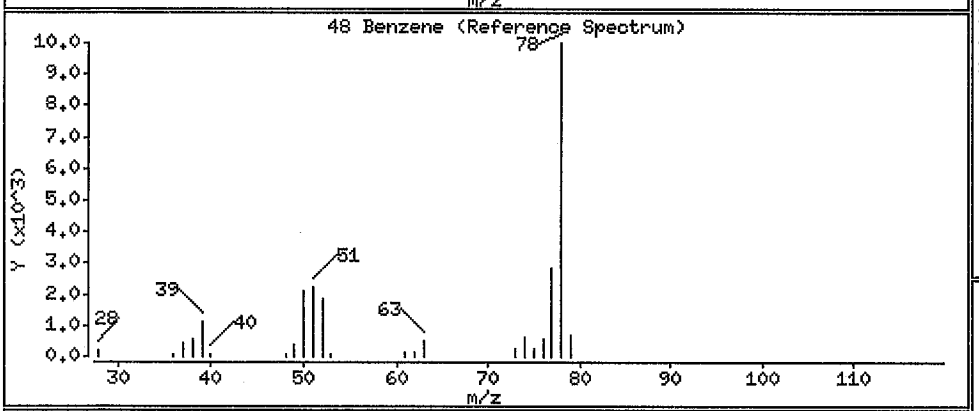
Column diameter: 0.32

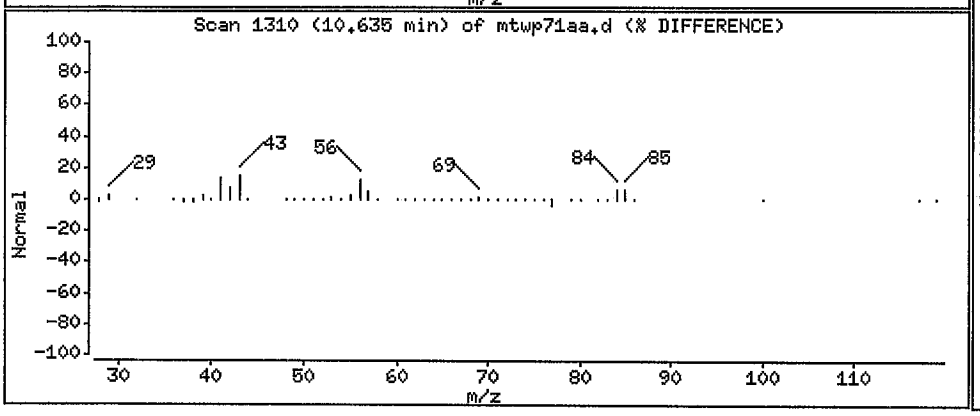
48 Benzene

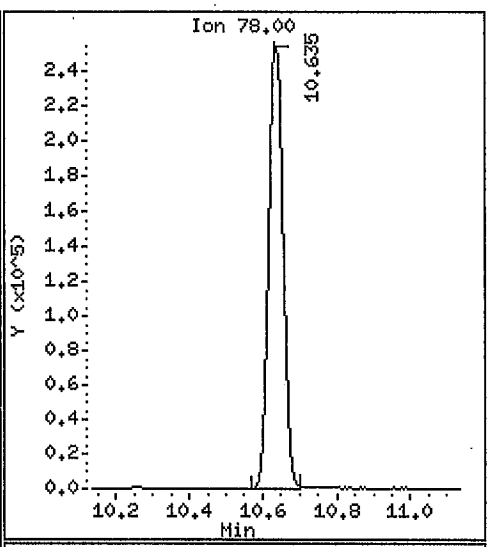
Concentration: 9.236 ppb(v/v)

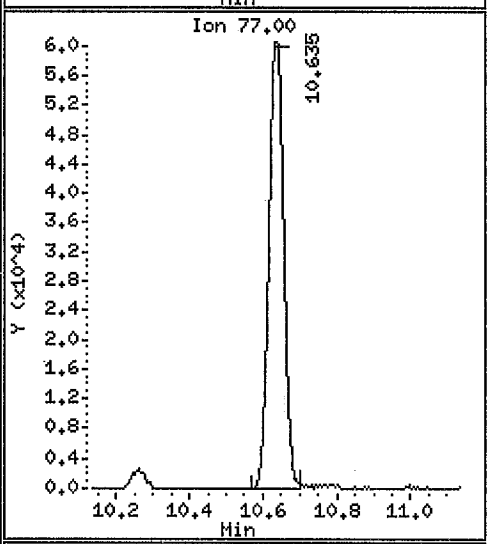


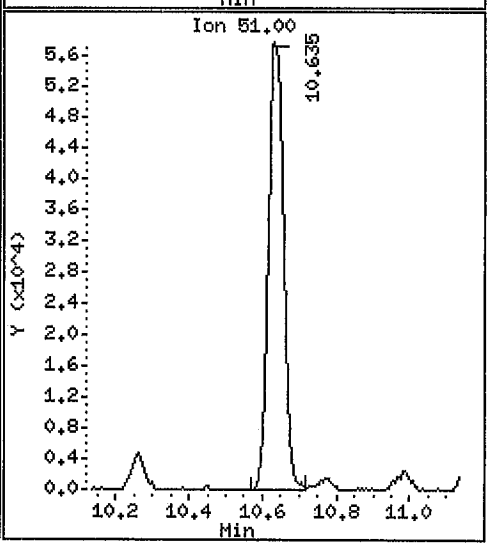












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

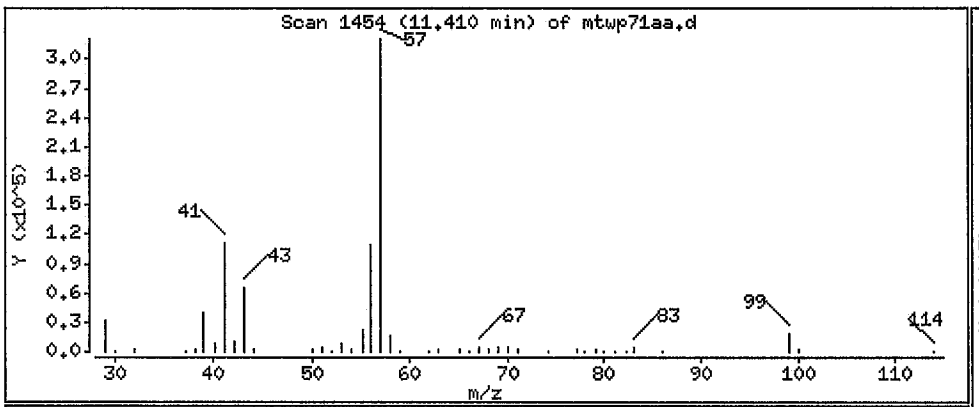
Operator: 7126

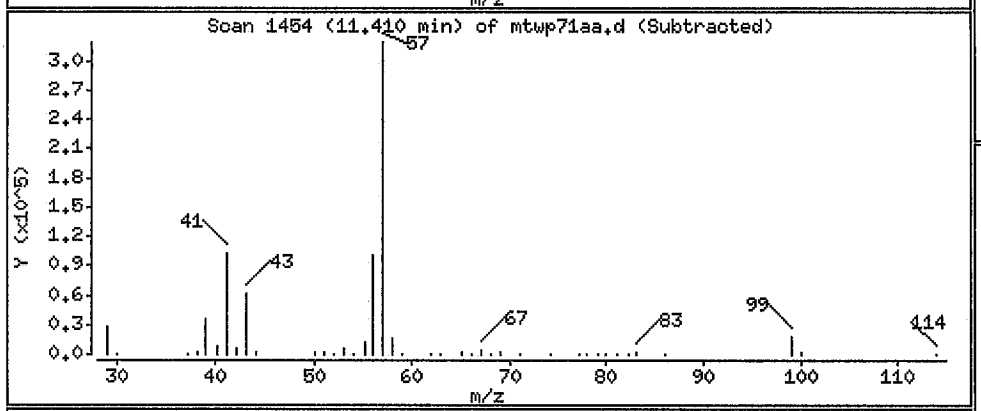
Column phase: Rtx-5

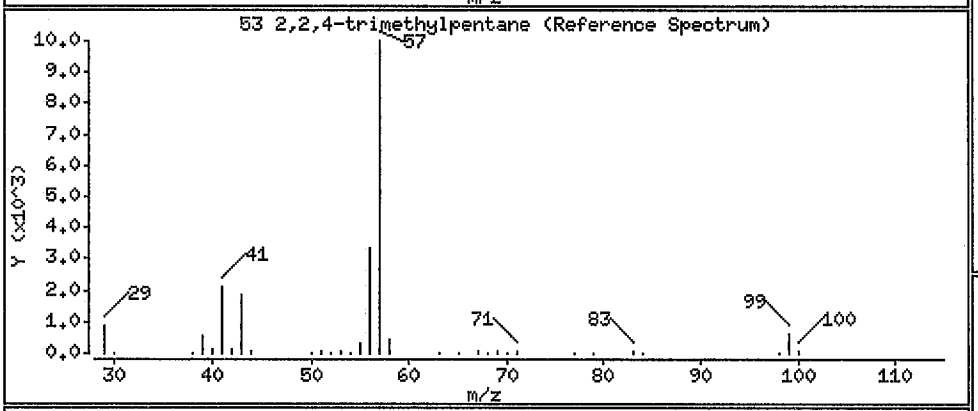
Column diameter: 0.32

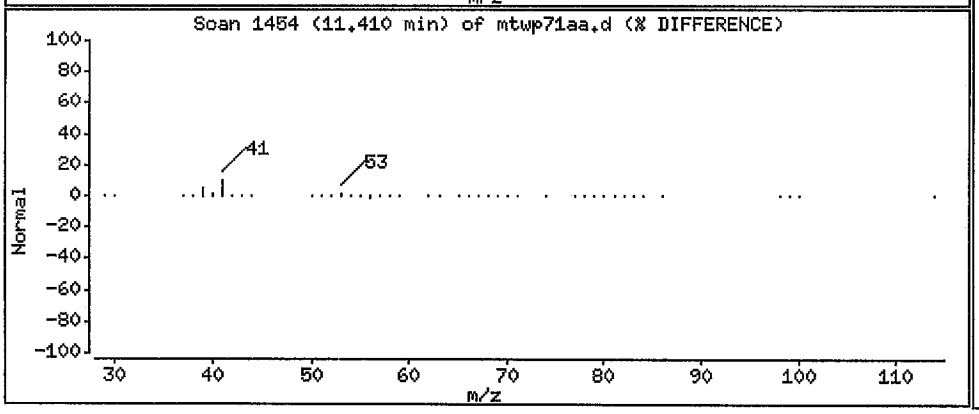
53 2,2,4-trimethylpentane

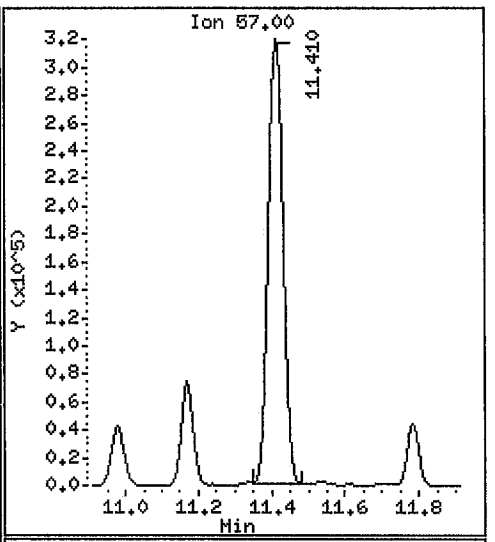
Concentration: 7.232 ppb(v/v)

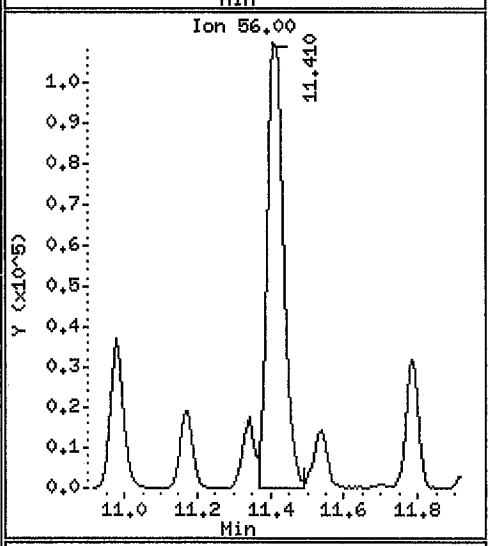


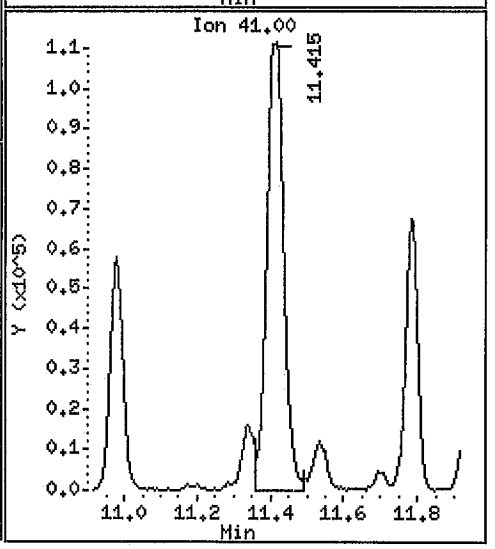












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

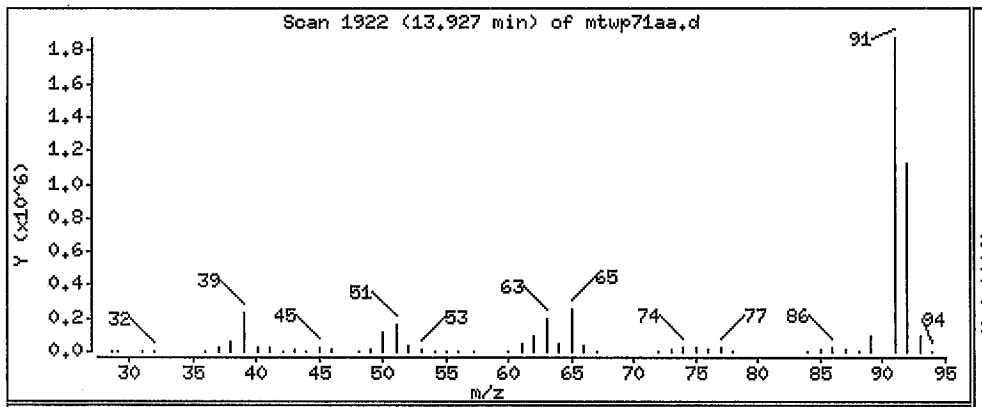
Operator: 7126

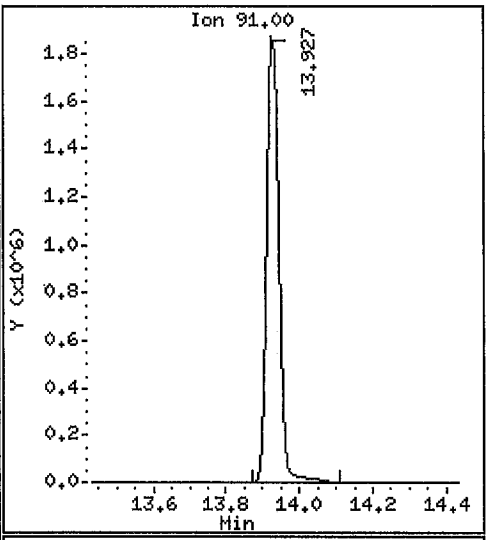
Column phase: Rtx-5

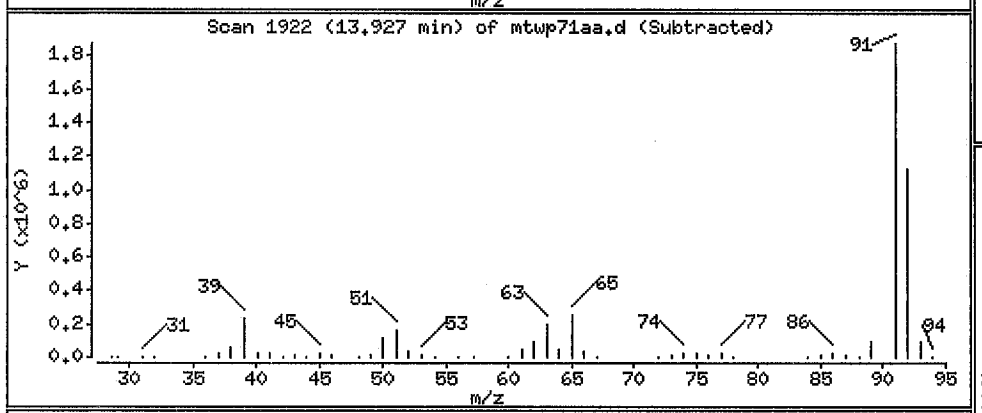
Column diameter: 0.32

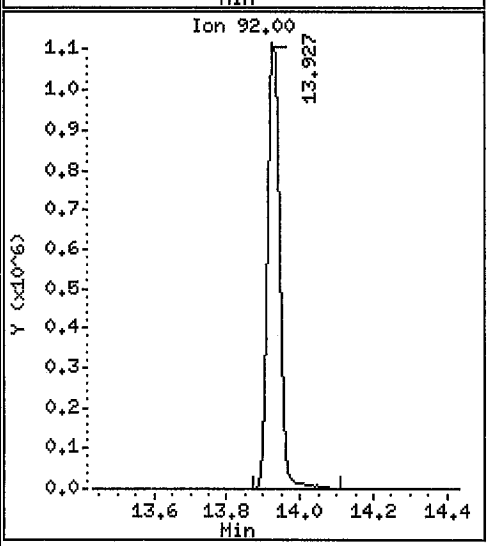
65 Toluene

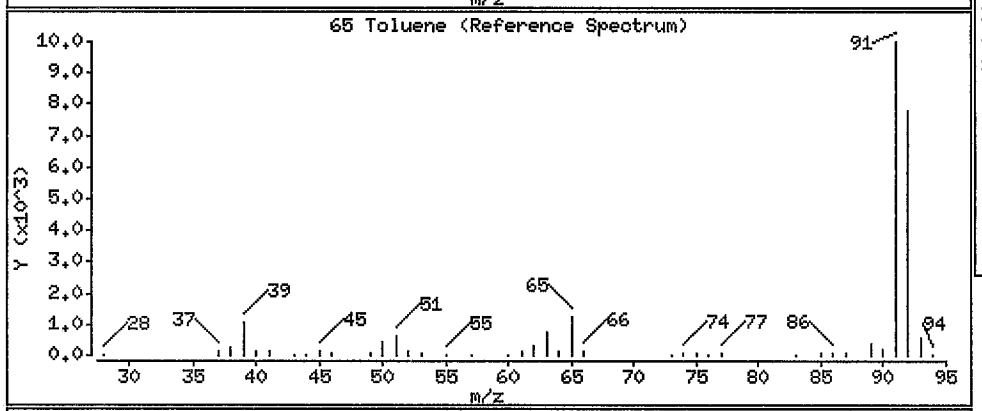
Concentration: 52.51 ppb(v/v)

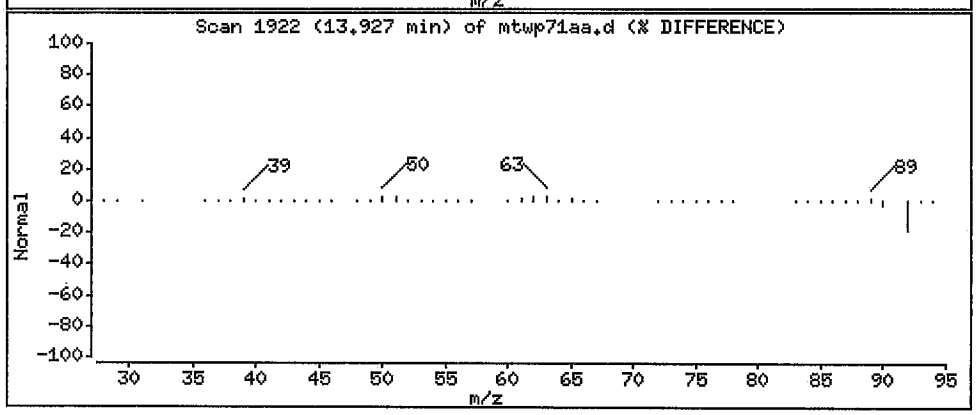












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

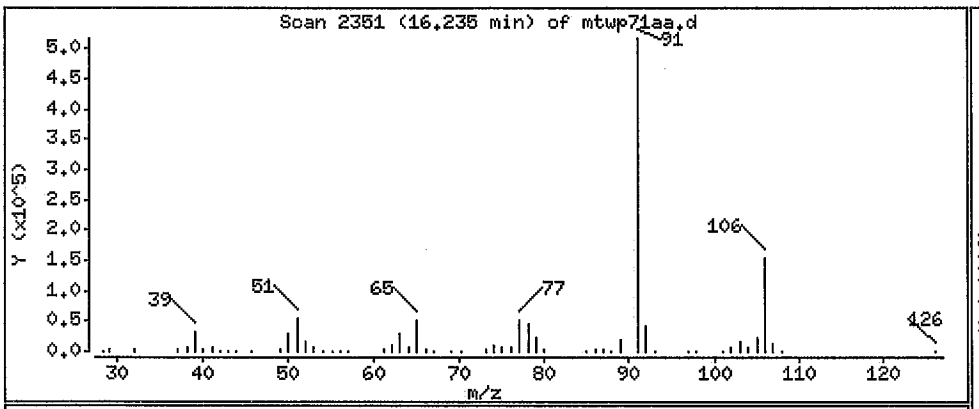
Operator: 7126

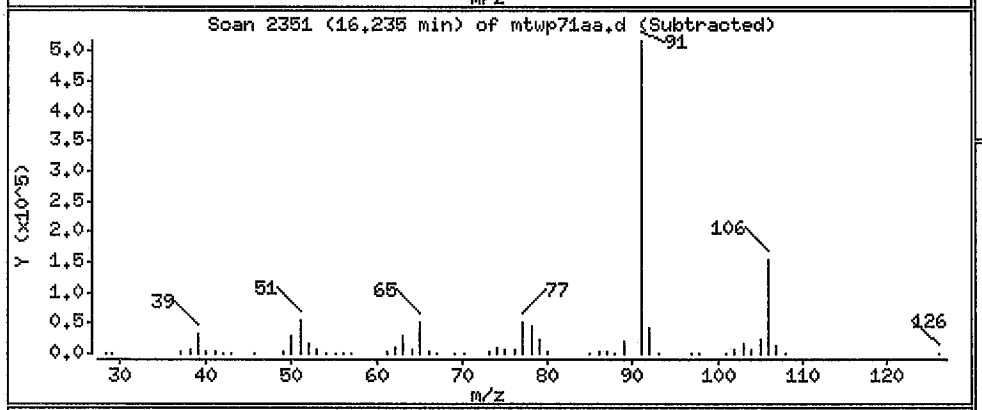
Column phase: Rtx-5

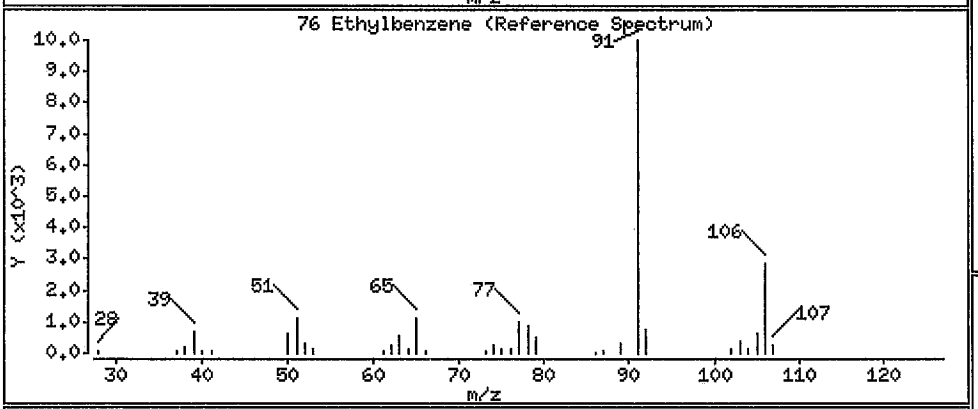
Column diameter: 0.32

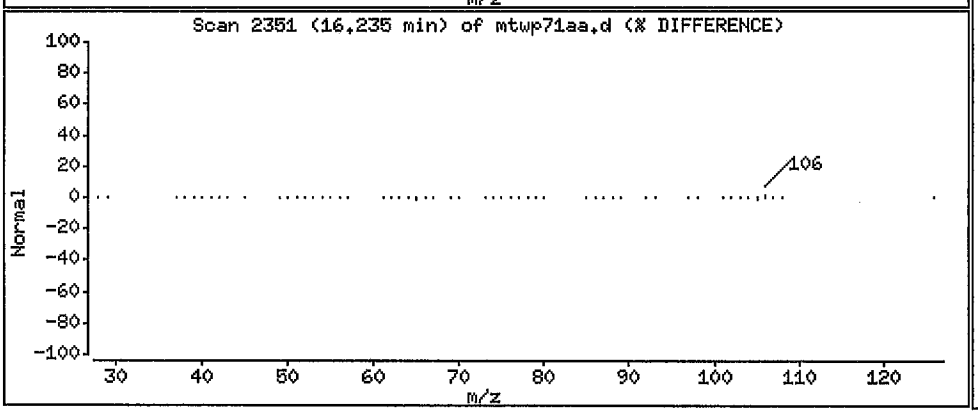
76 Ethylbenzene

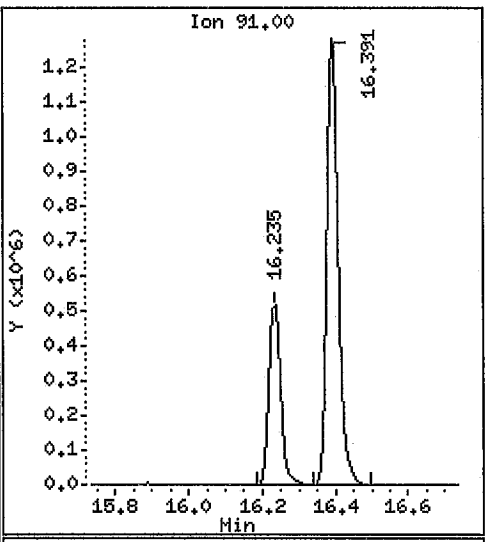
Concentration: 10.82 ppb(v/v)

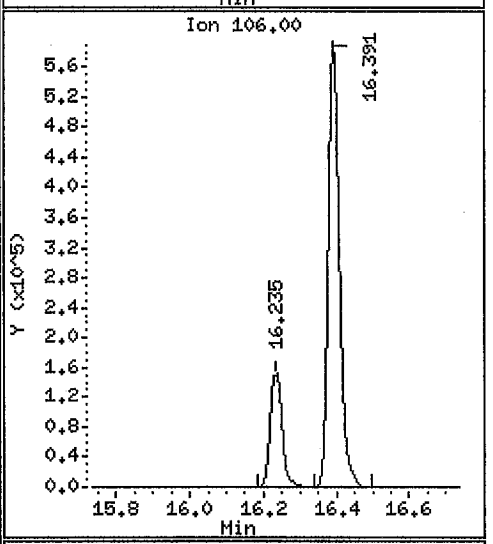


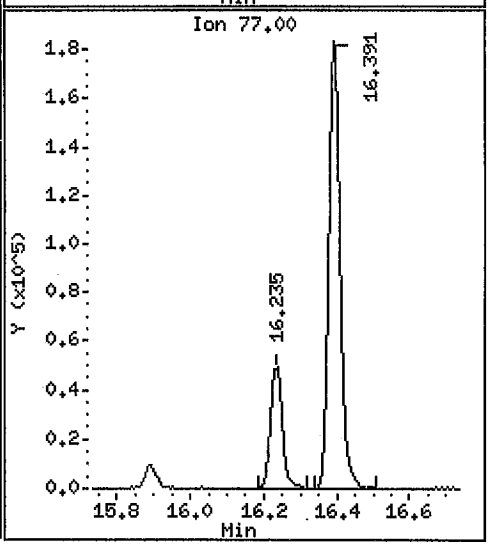












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

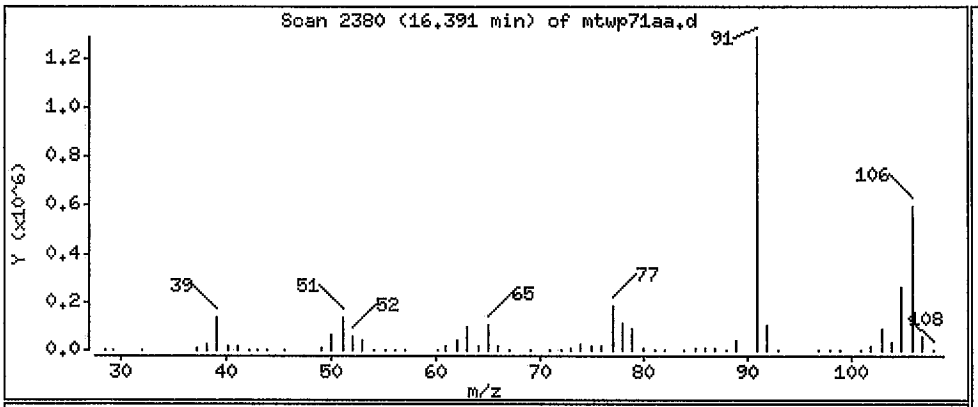
Operator: 7126

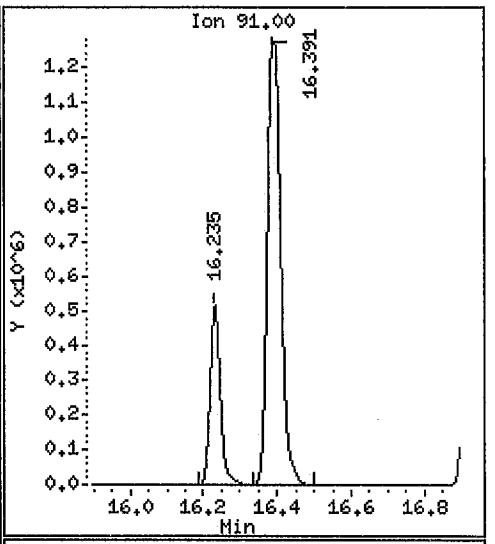
Column phase: Rtx-5

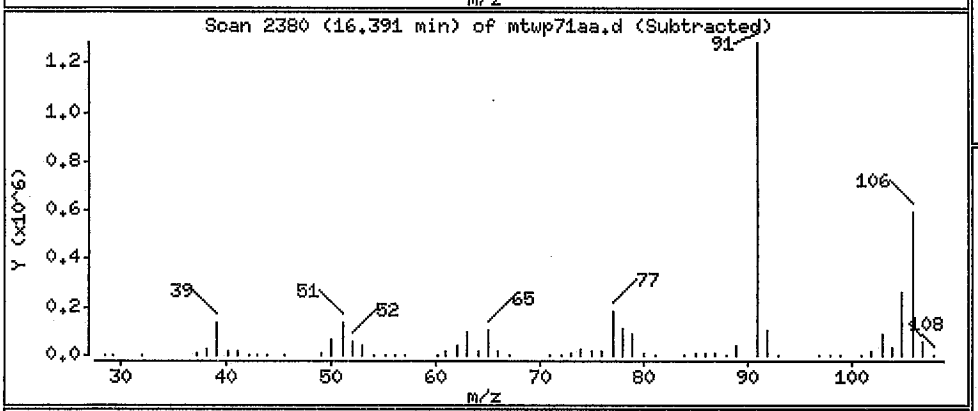
Column diameter: 0.32

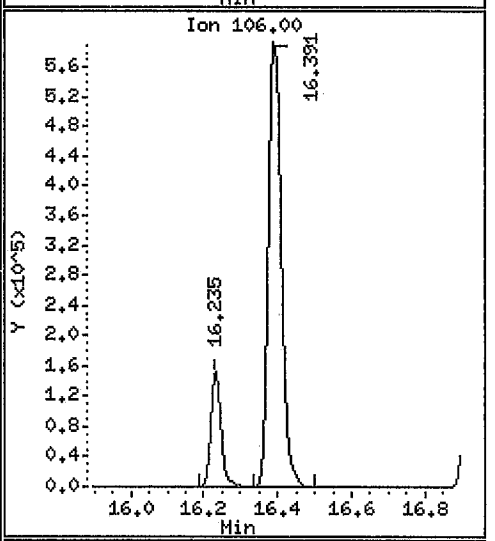
78 m&p-Xylene

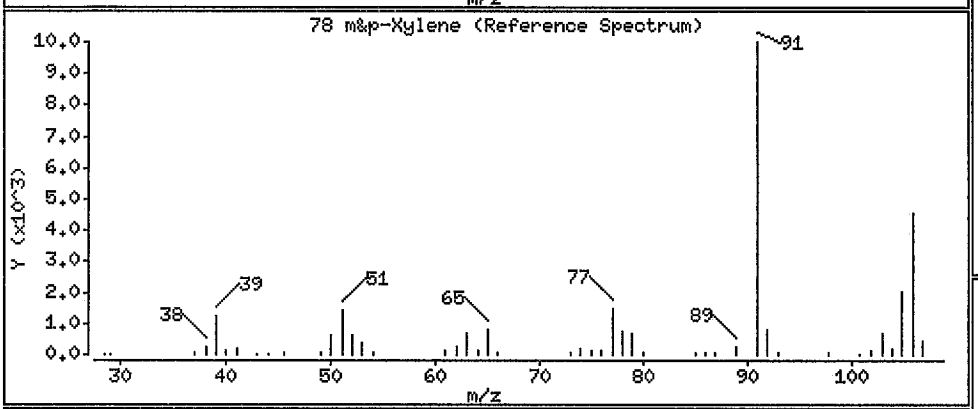
Concentration: 38.01 ppb(v/v)

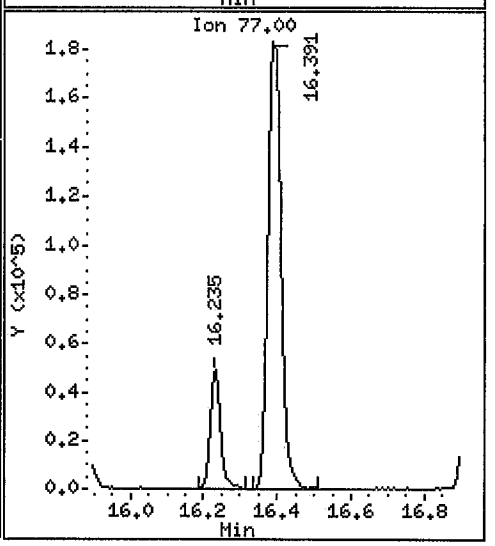


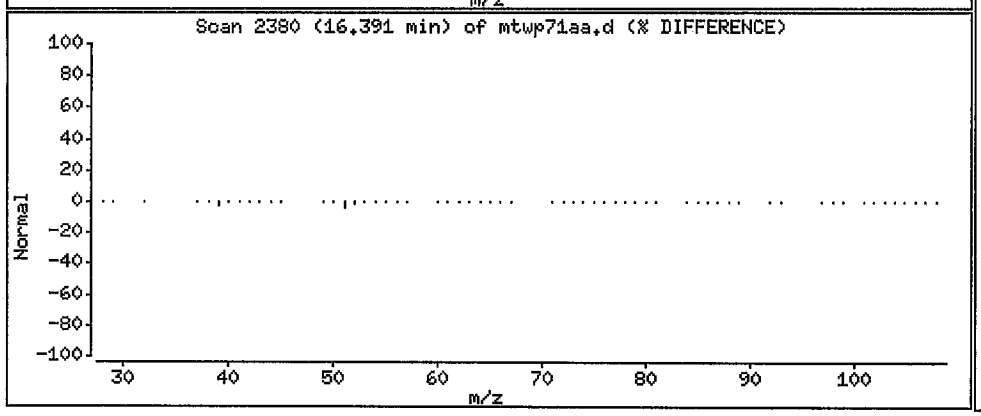












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

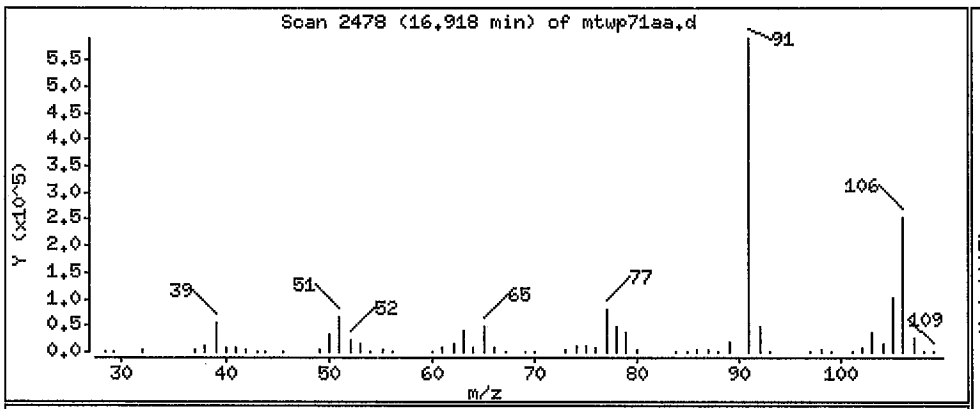
Operator: 7126

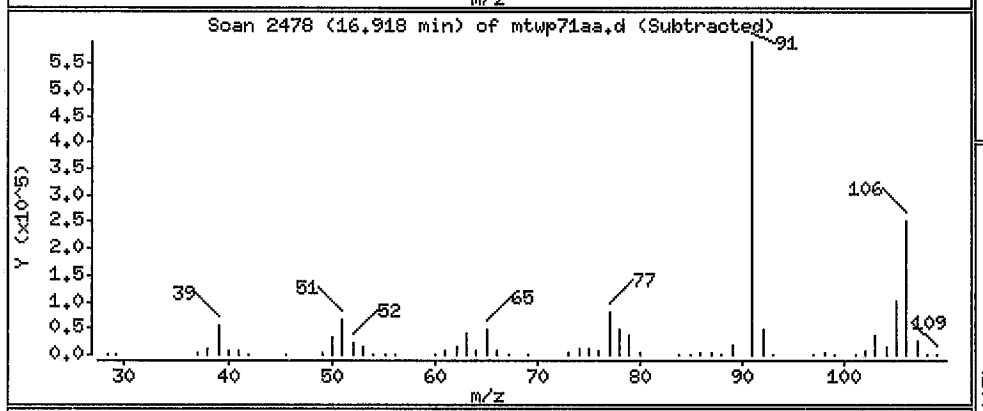
Column phase: Rtx-5

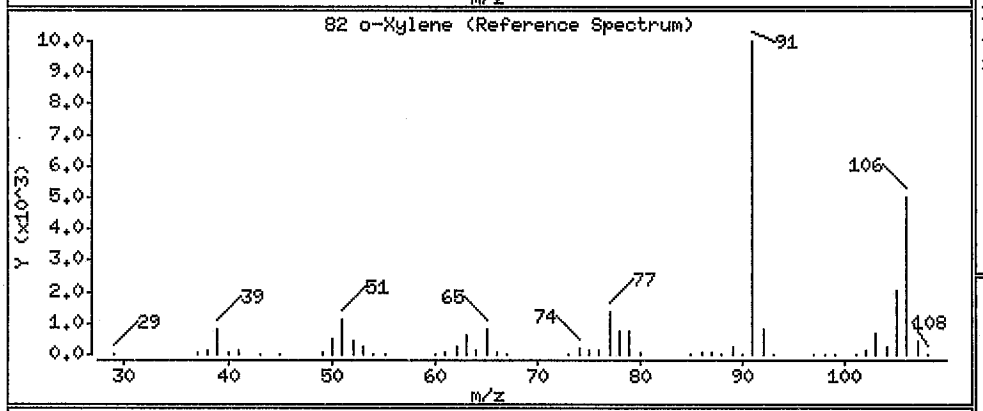
Column diameter: 0.32

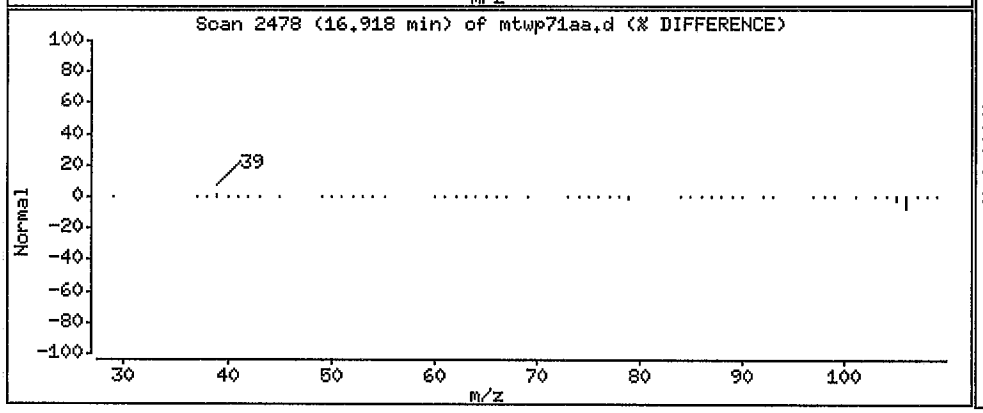
82 o-Xylene

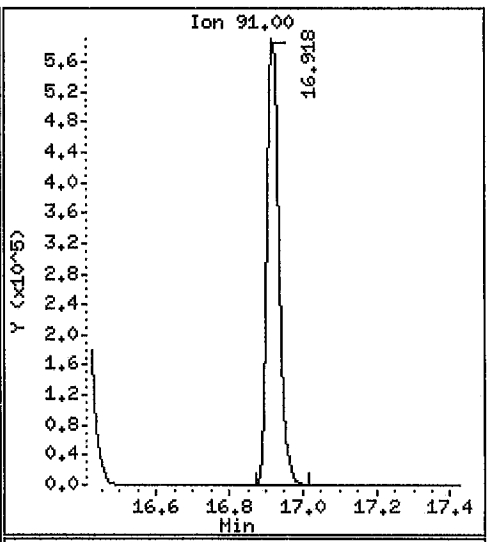
Concentration: 15.28 ppb(v/v)

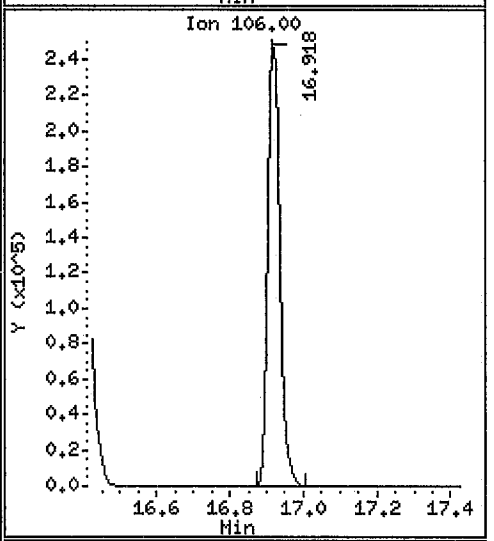


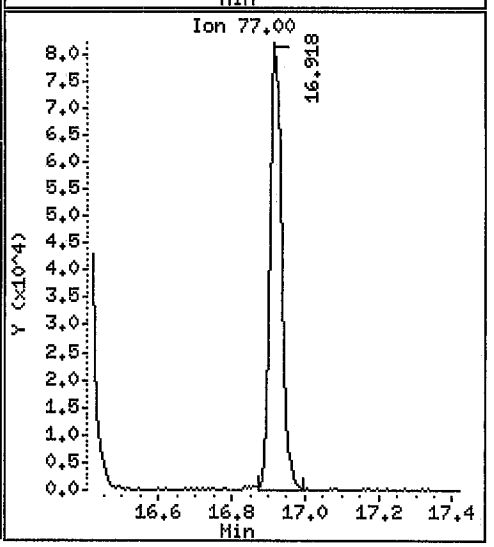












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

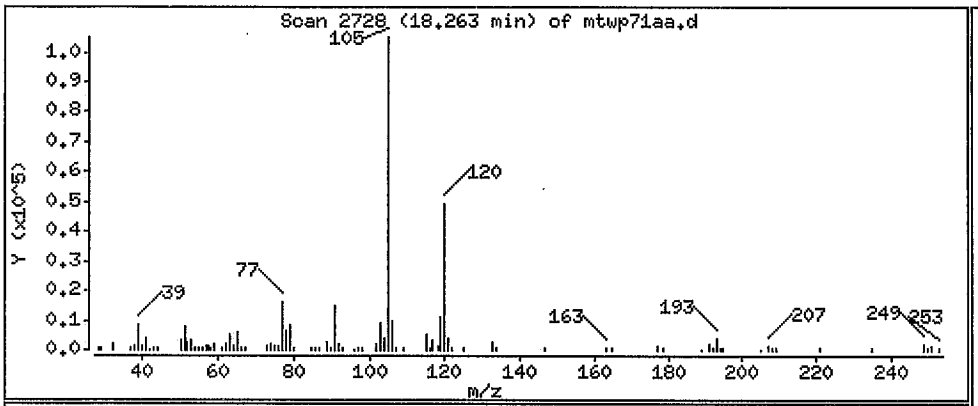
Operator: 7126

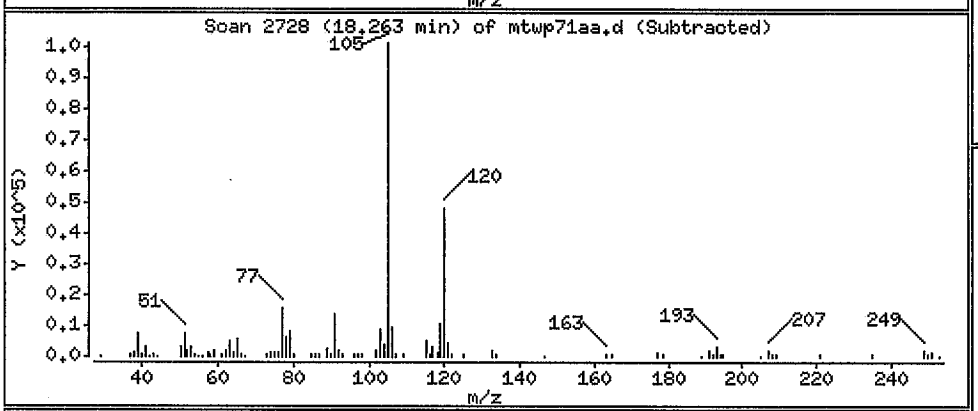
Column phase: Rtx-5

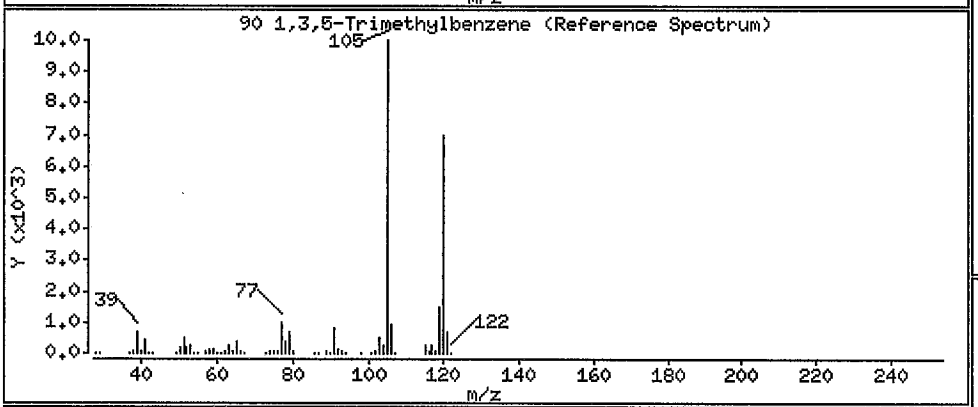
Column diameter: 0.32

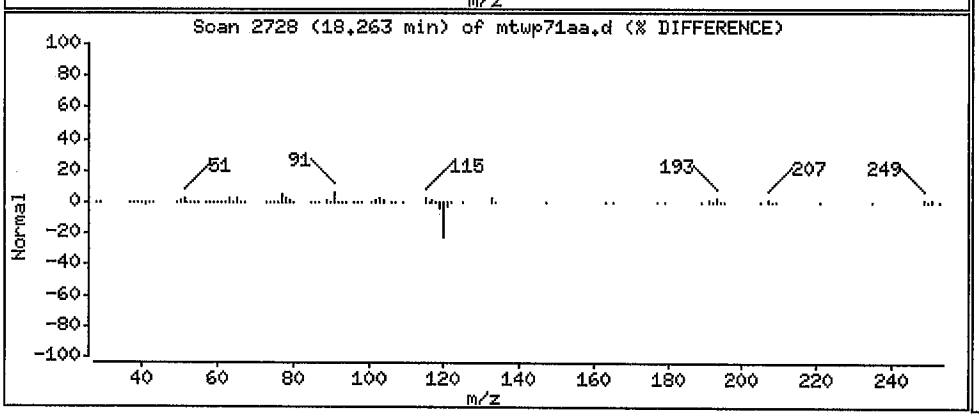
90 1,3,5-Trimethylbenzene

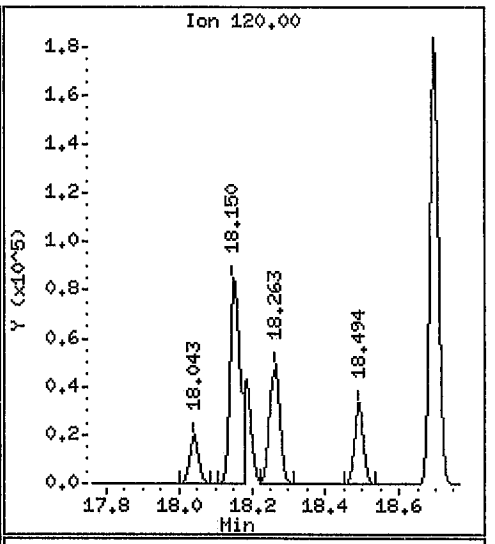
Concentration: 1.935 ppb(v/v)

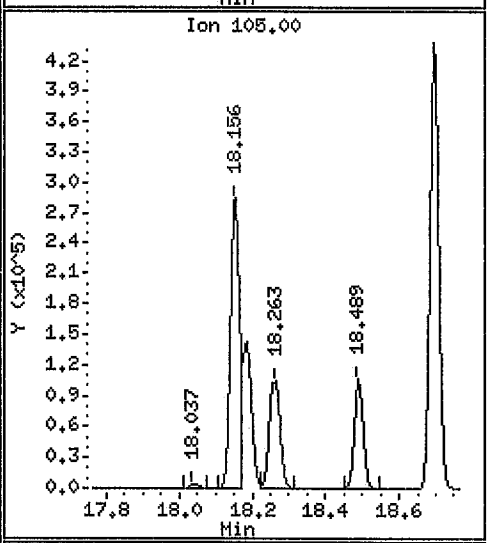


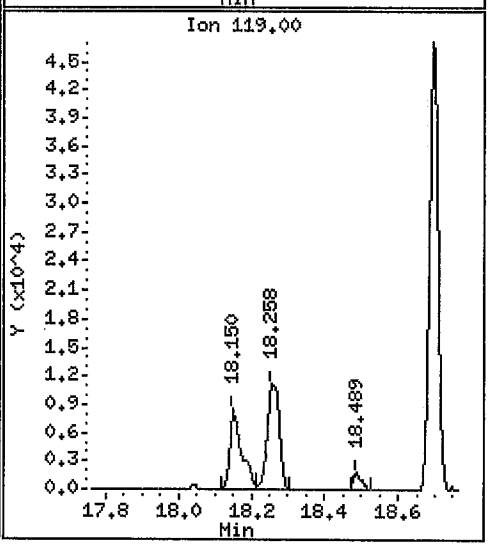












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

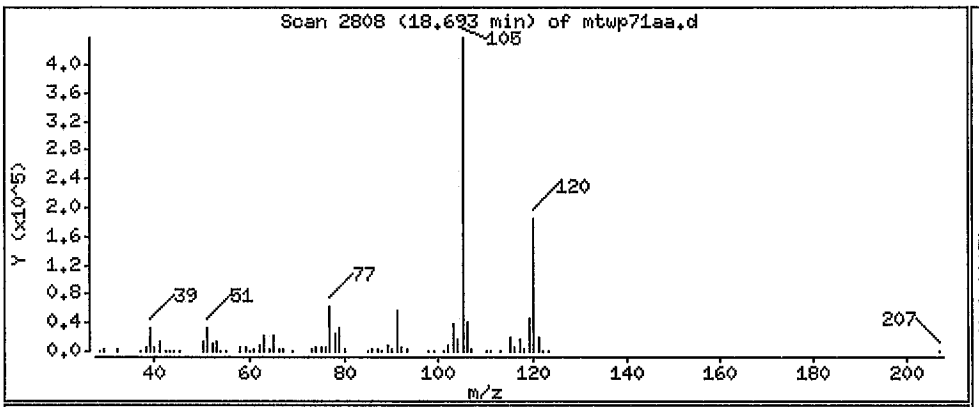
Operator: 7126

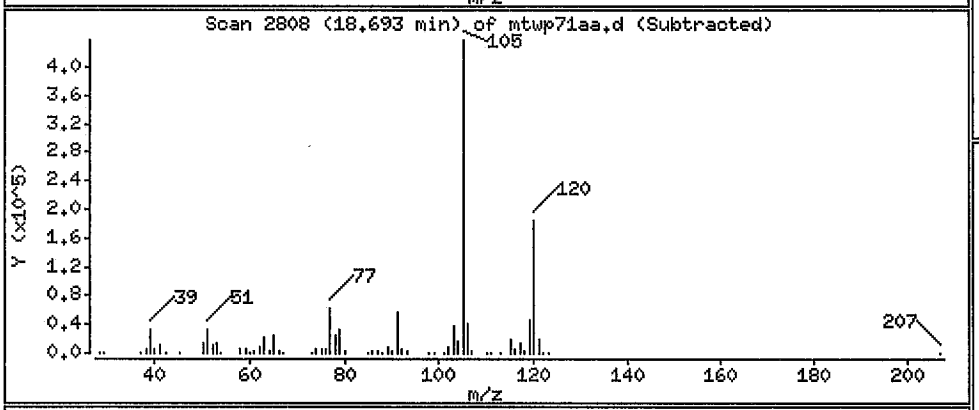
Column phase: Rtx-5

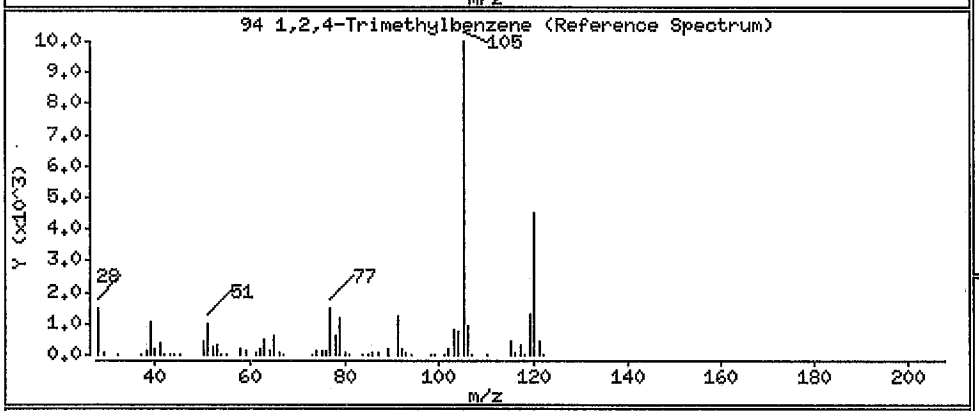
Column diameter: 0.32

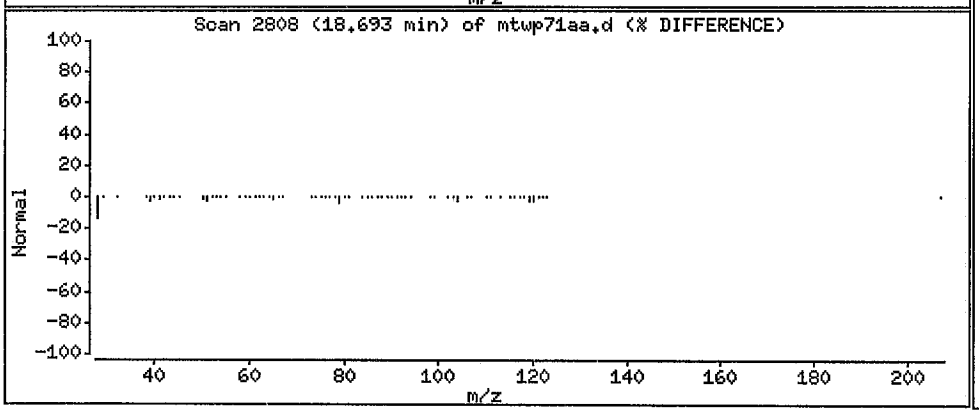
94 1,2,4-Trimethylbenzene

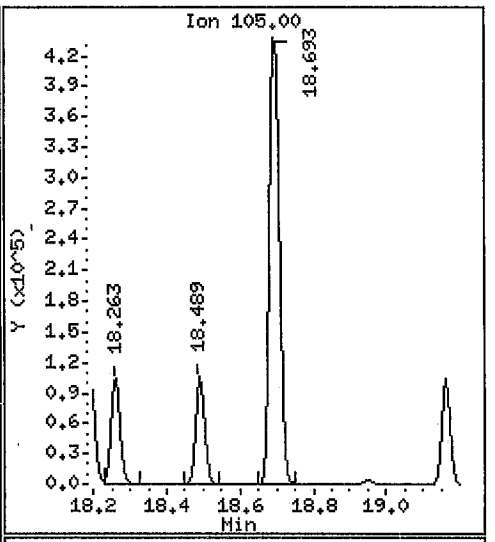
Concentration: 8.778 ppb(v/v)

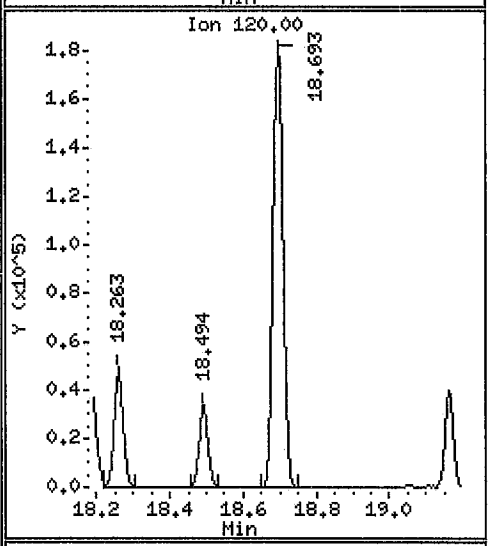


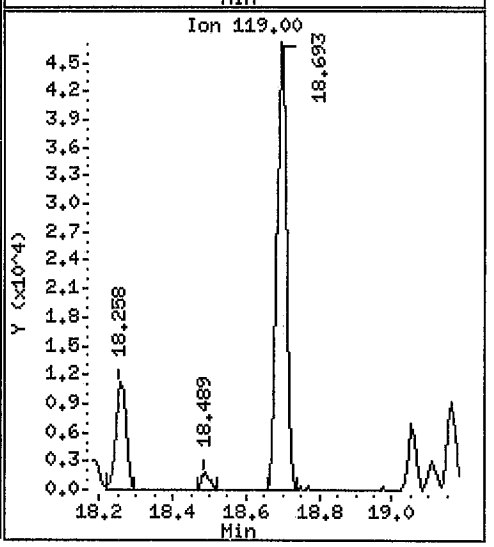












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp71aa.d

Date : 05-JUN-2012 13:51

Client ID: HOUSE # 4 INDOOR

Instrument: mj.i

Sample Info: ,5,0,,,

Purge Volume: 500.0

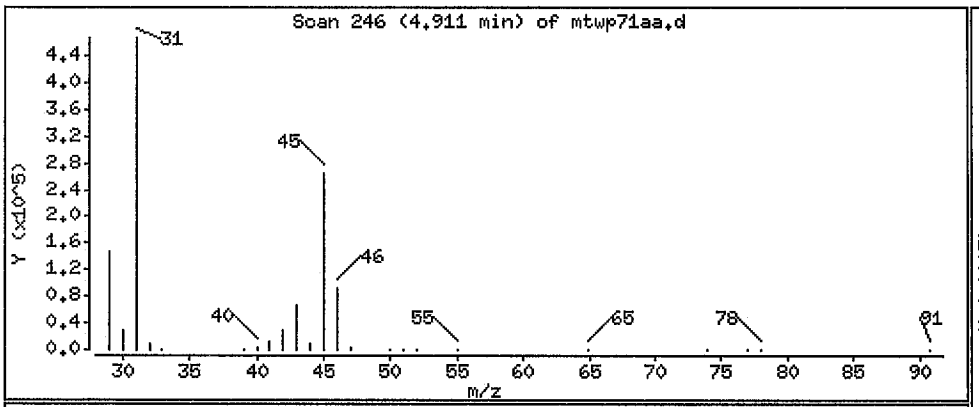
Operator: 7126

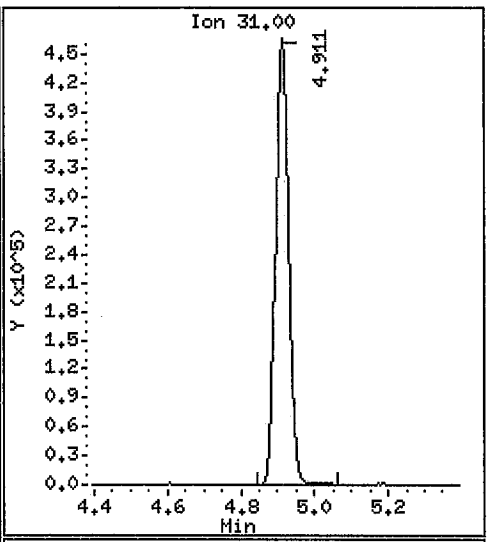
Column phase: Rtx-5

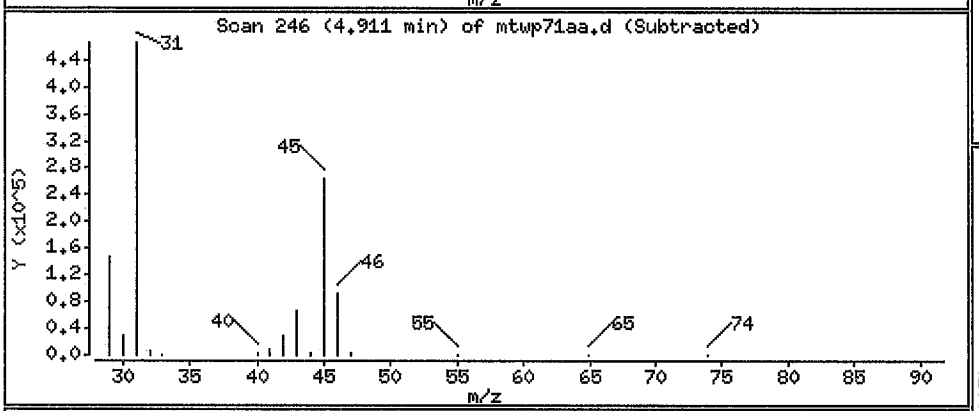
Column diameter: 0.32

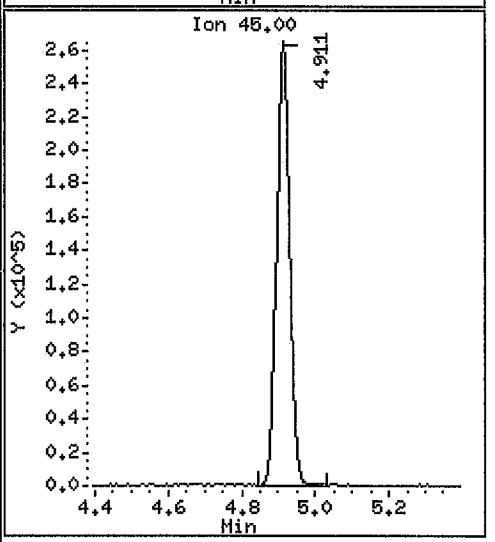
17 " ethanol

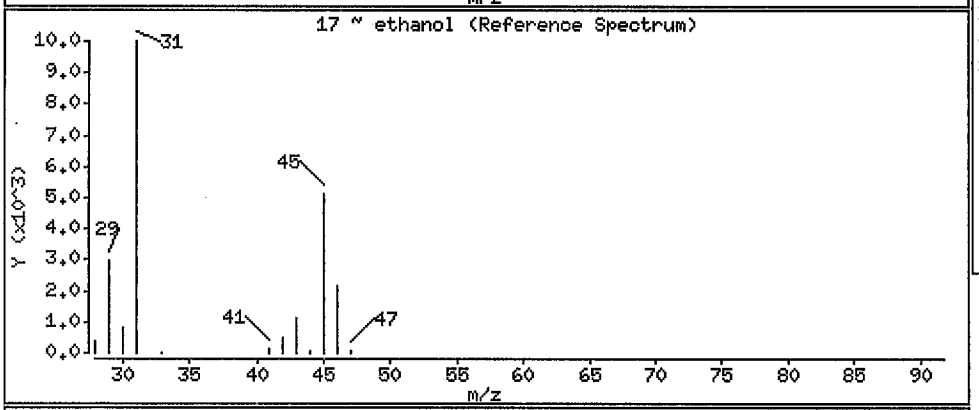
Concentration: 150.9 ppb(v/v)

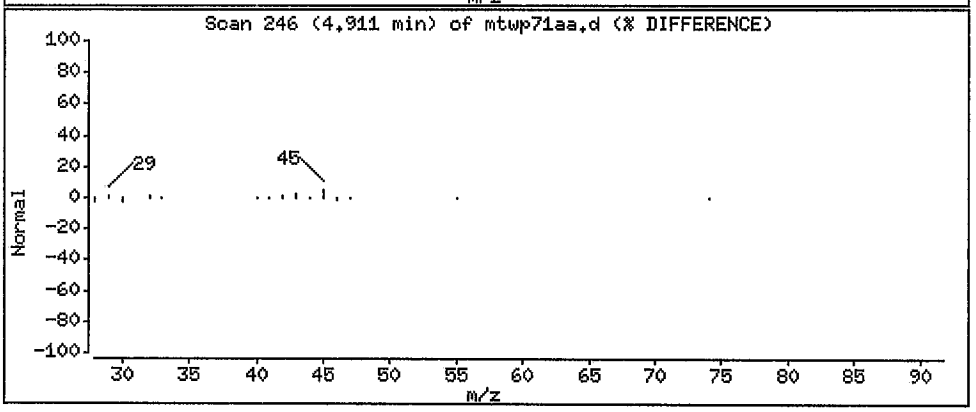












New York State D.E.C.

Client Sample ID: HOUSE # 4 OUTDOOR

GC/MS Volatiles

Lot-Sample # H2E310431 - 004 **Work Order #** MTWP81AA **Matrix.....:** AIR

Date Sampled...: 05/30/2012 **Date Received..:** 05/31/2012
Prep Date.....: 06/05/2012 **Analysis Date...** 06/05/2012
Prep Batch #.....: 2156111
Dilution Factor.: 1 **Method.....:** TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	**0.62**	**0.32**	**1.8**	**0.94**
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	**0.12**	**0.080**	**0.39**	**0.26**
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	**0.089**	**0.040**	**0.56**	**0.25**
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	**0.64**	**0.20**	**1.3**	**0.41**
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	**0.47**	**0.080**	**2.3**	**0.40**
Ethanol	**4.3**	**0.80**	**8.1**	**1.5**
Ethylbenzene	ND	0.080	ND	0.35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	ND	0.20	ND	0.70
Hexachlorobutadiene	ND	0.080	ND	0.85

New York State D.E.C.

Client Sample ID: HOUSE # 4 OUTDOOR

GC/MS Volatiles

Lot-Sample # H2E310431 - 004 **Work Order #** MTWP81AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	**0.30**	**0.20**	**1.0**	**0.69**
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	**0.42**	**0.080**	**1.6**	**0.30**
m-Xylene & p-Xylene	**0.26**	**0.080**	**1.1**	**0.35**
o-Xylene	**0.099**	**0.080**	**0.43**	**0.35**
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	**0.32**	**0.080**	**1.8**	**0.45**
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	99	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d
Lab Smp Id: MTWP81AA Client Smp ID: HOUSE # 4 OUTDOOR
Inj Date : 05-JUN-2012 14:43
Operator : 7126 Inst ID: mj.i
Smp Info : ,,0,,,
Misc Info : J060512,TO15,nysdec.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J060512.b/TO15.m
Meth Date : 06-Jun-2012 11:48 barlozha Quant Type: ISTD
Cal Date : 24-MAY-2012 13:43 Cal File: jice241.d
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: nysdec.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.984	8.987	(1.000)	351857	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.163	11.171	(1.000)	1636065	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.892	15.894	(1.000)	1510537	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.527	17.529	(1.103)	1181149	3.96091	3.961
	7 Dichlorodifluoromethane	85	3.901	3.903	(0.434)	230505	0.47208	0.4721
	8 Chloromethane	52	4.078	4.086	(0.454)	22475	0.64322	0.6432
	20 Trichlorofluoromethane	101	5.391	5.393	(0.600)	147110	0.31803	0.3180
	31 Methylene Chloride	84	6.435	6.442	(0.716)	26396	0.29675	0.2968
	39 2-Butanone	72	8.210	8.212	(0.914)	23668	0.61976	0.6198
	48 Benzene	78	10.631	10.633	(0.952)	37051	0.12066	0.1207
	50 Carbon Tetrachloride	117	10.657	10.665	(0.955)	29389	0.08920	0.08920
	65 Toluene	91	13.923	13.930	(0.876)	144010	0.41741	0.4174
	78 m&p-Xylene	91	16.387	16.394	(1.031)	89247	0.25641	0.2564
	82 o-Xylene	91	16.919	16.921	(1.065)	35607	0.09930	0.09930
	17 ~ ethanol	31	4.896	4.893	(0.545)	139232	4.32258	4.322

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: mtwp81aa.d
Lab Smp Id: MTWP81AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,nysdec.sub,,,

Calibration Date: 05-JUN-2012
Calibration Time: 08:54
Client Smp ID: HOUSE # 4 OUTDOOR
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	373662	222329	524995	351857	-5.84
2 1,4-Difluorobenze	1719152	1022895	2415409	1636065	-4.83
3 Chlorobenzene-d5	1506917	896616	2117218	1510537	0.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.98	-0.03
2 1,4-Difluorobenze	11.17	10.84	11.50	11.16	-0.07
3 Chlorobenzene-d5	15.89	15.56	16.22	15.89	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d
Report Date: 06-Jun-2012 12:26

TestAmerica Knoxville

RECOVERY REPORT

Client Name: New York State D.E.C31-MAY-2012 00:00 Client SDG: H2E310431
Sample Matrix: GAS Fraction: OTHER
Lab Smp Id: MTWP81AA Client Smp ID: HOUSE # 4 OUTDOOR
Level: LOW Operator: 7126
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: allnew.spk Quant Type: ISTD
Sublist File: nysdec.sub
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,nysdec.sub,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	3.961	99.02	60-140

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d
Date : 05-JUN-2012 14:43
Client ID: HOUSE # 4 OUTDOOR
Sample Info: ,,0,,,
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene
/var/chem/gcms/mj.i/J060512.b/mtwp81aa.d
Min

Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

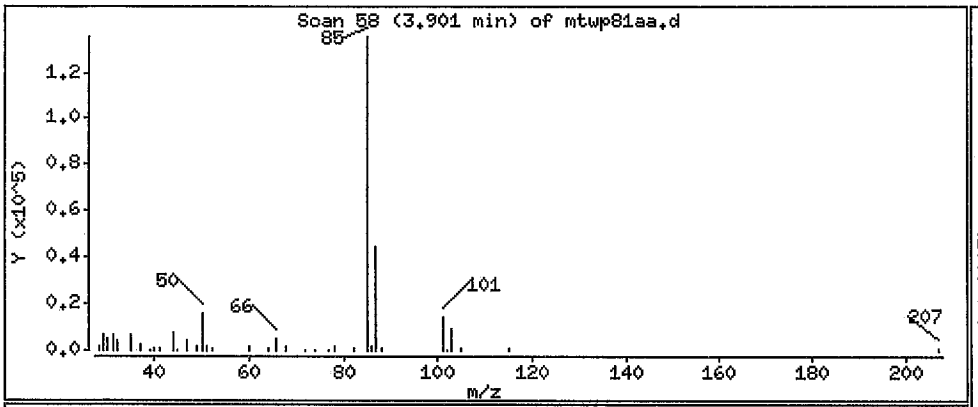
Operator: 7126

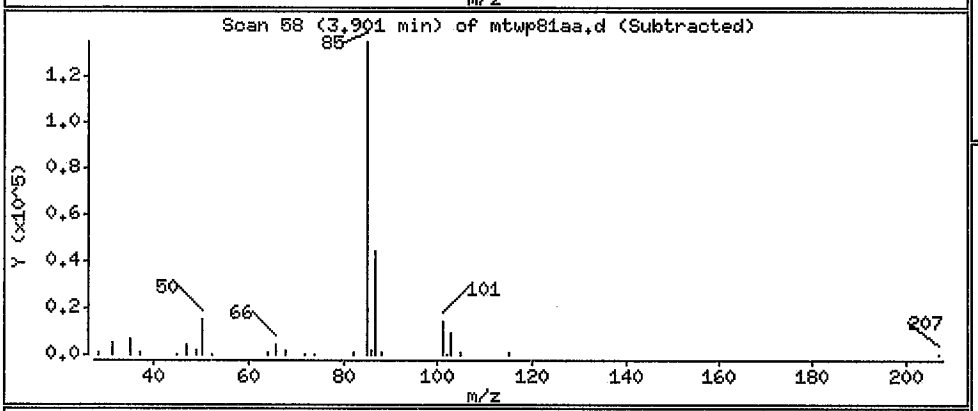
Column phase: Rtx-5

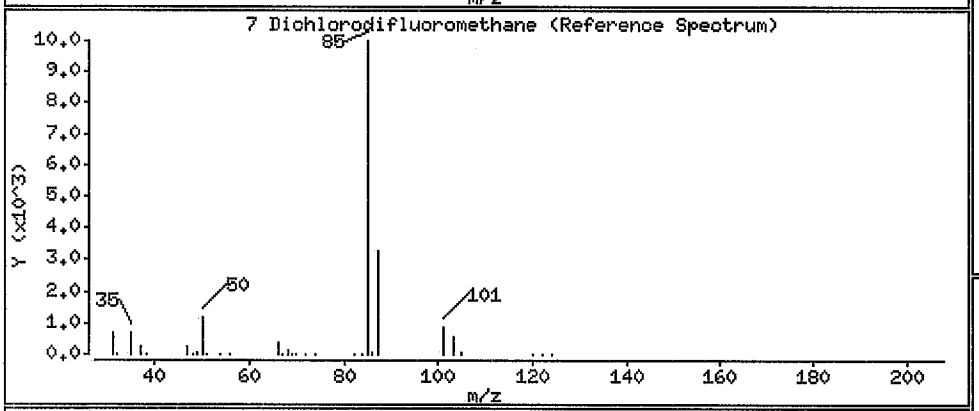
Column diameter: 0.32

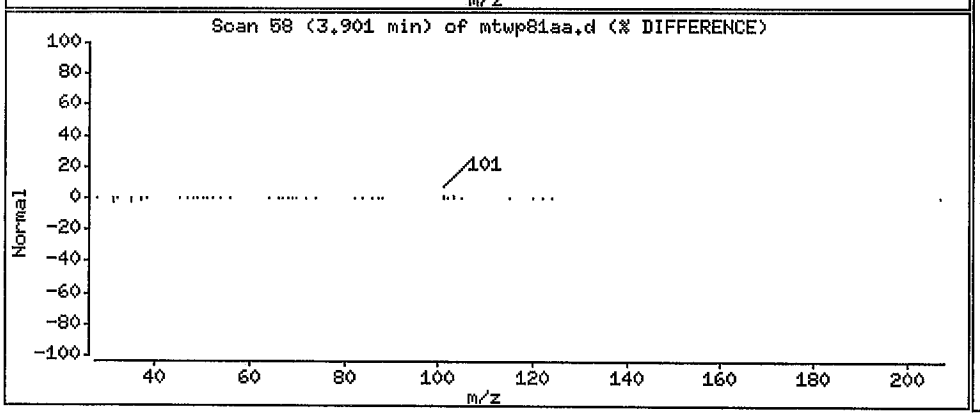
7 Dichlorodifluoromethane

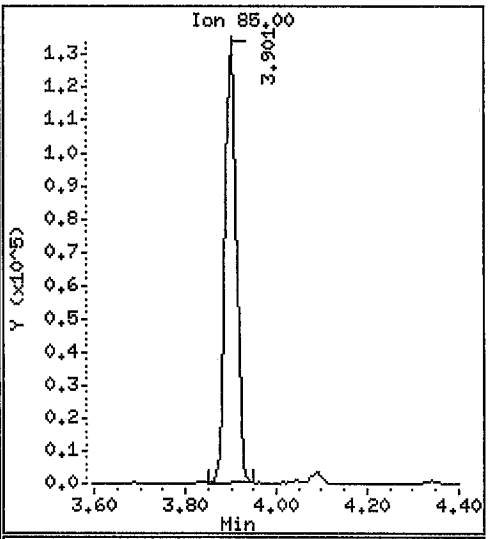
Concentration: 0.4721 ppb(v/v)

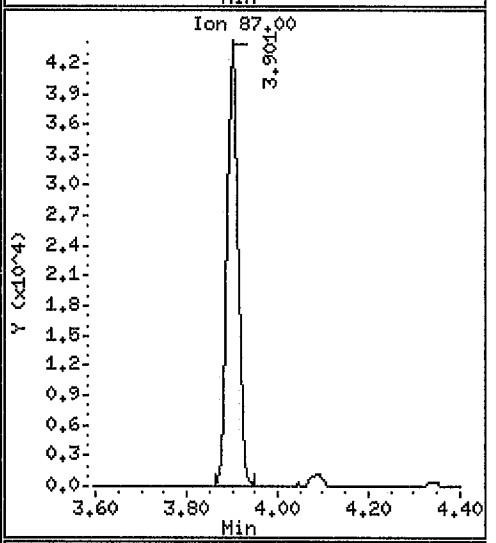


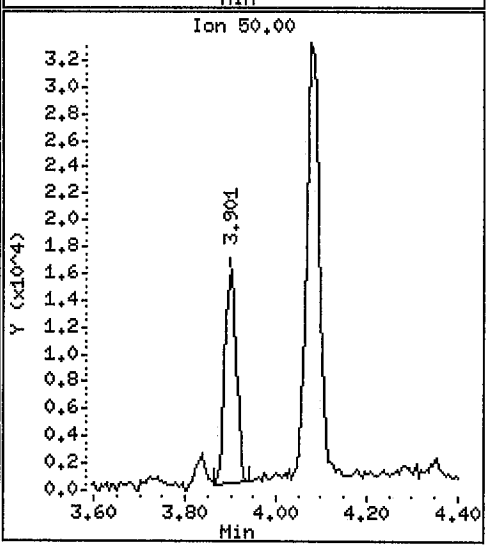












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

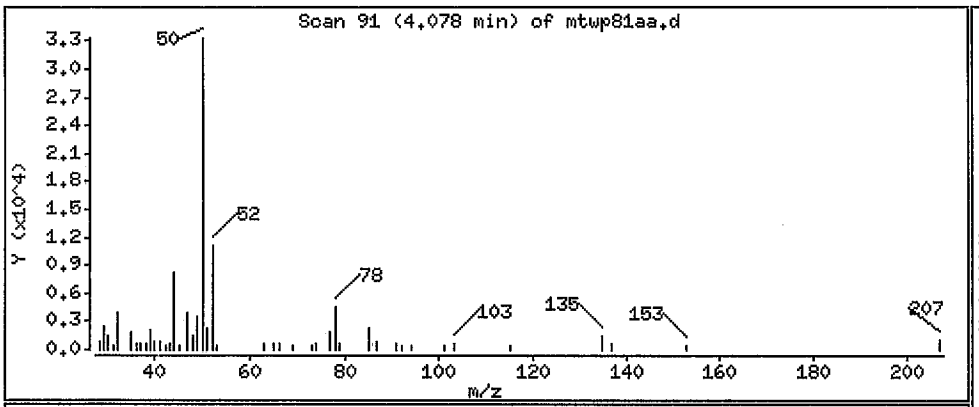
Operator: 7126

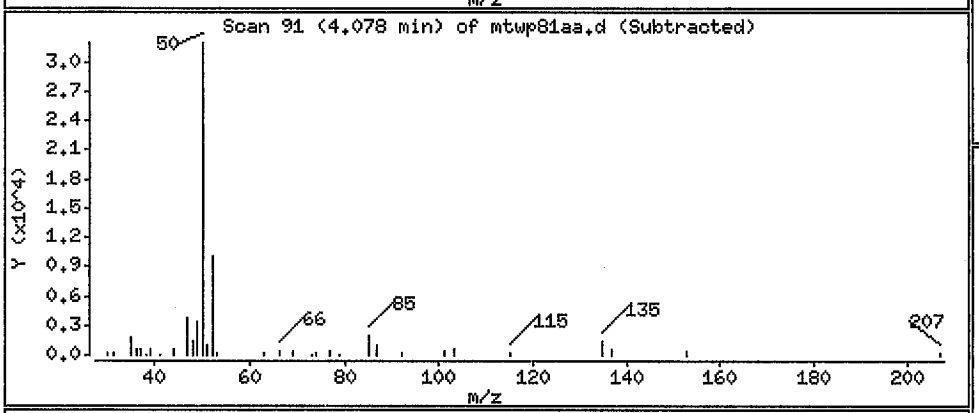
Column phase: Rtx-5

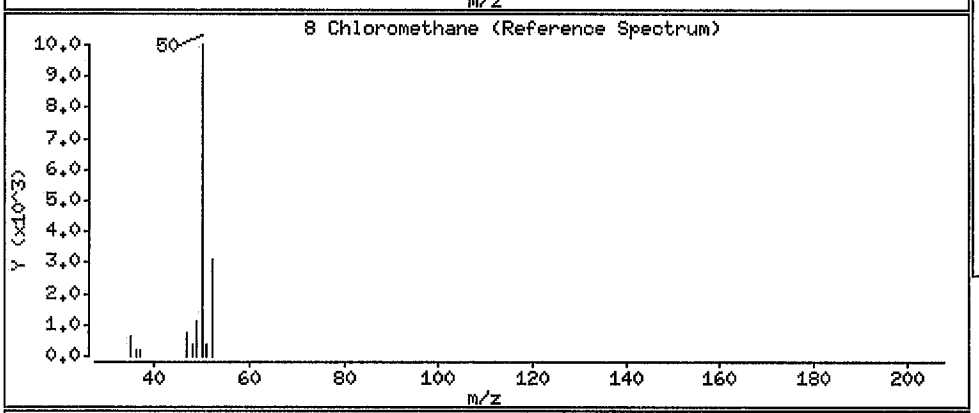
Column diameter: 0.32

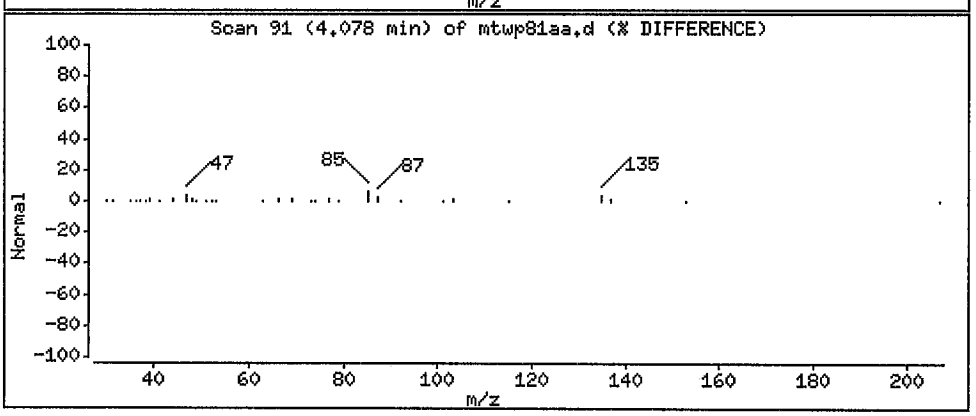
8 Chloromethane

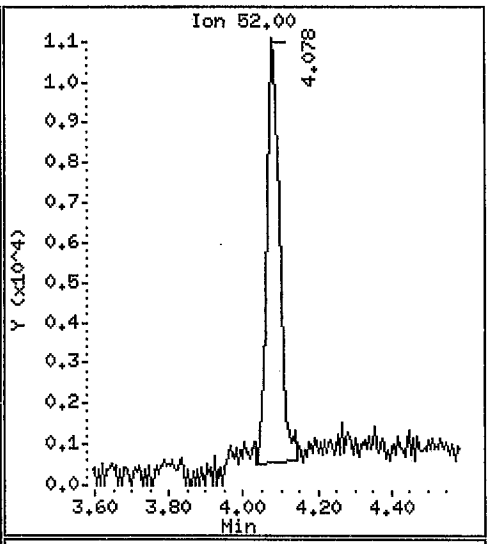
Concentration: 0.6432 ppb(v/v)

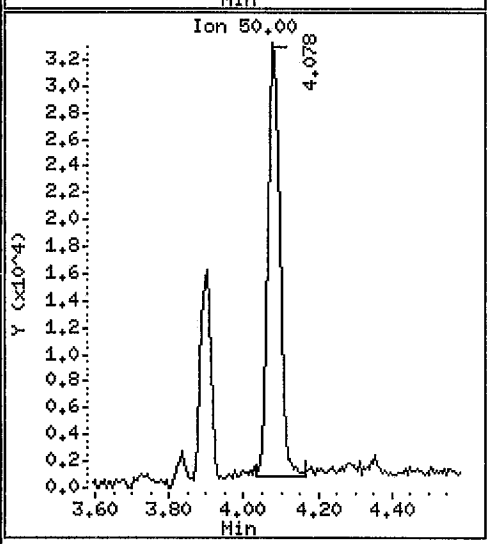












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

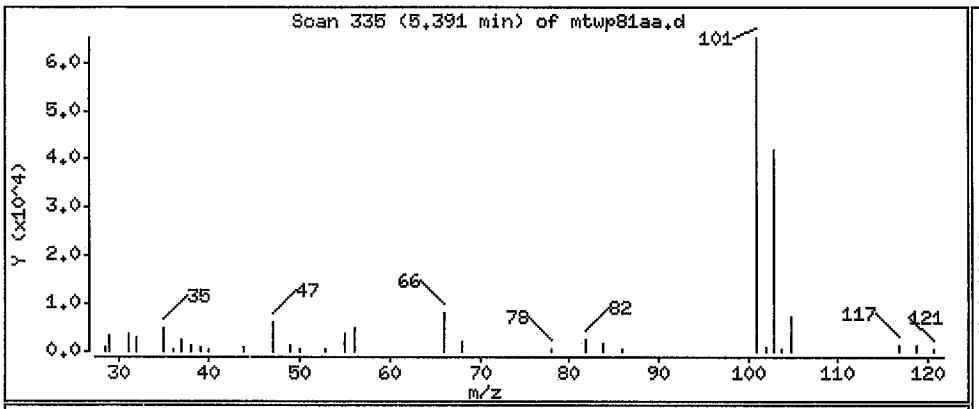
Operator: 7126

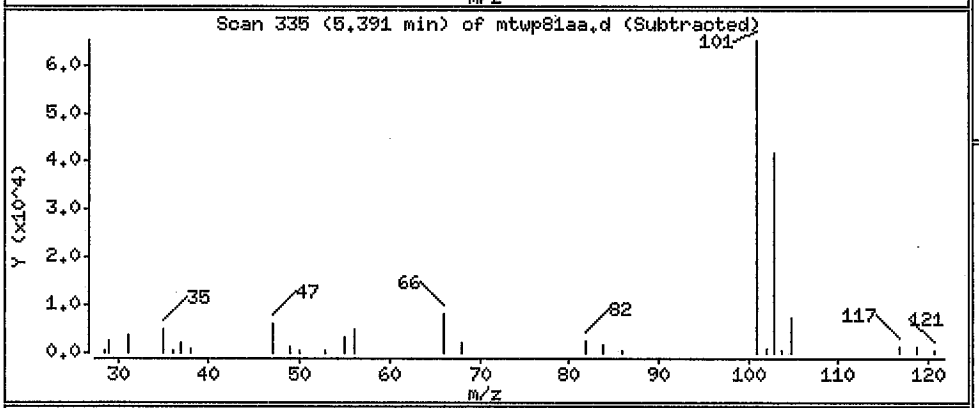
Column phase: Rtx-5

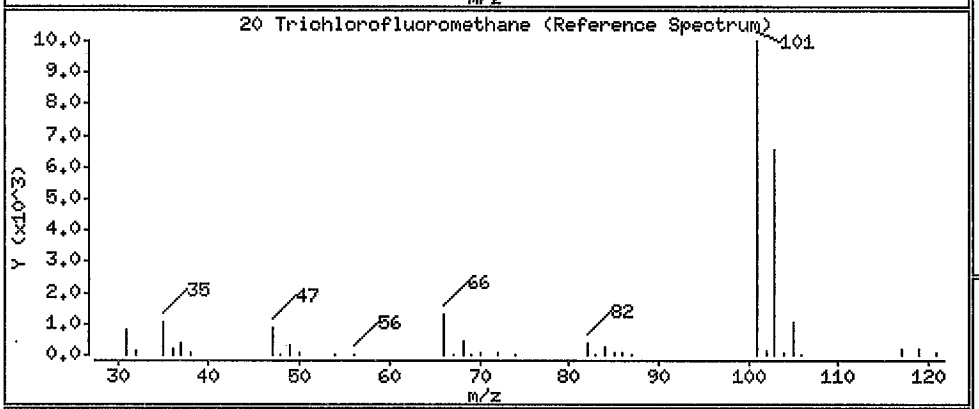
Column diameter: 0.32

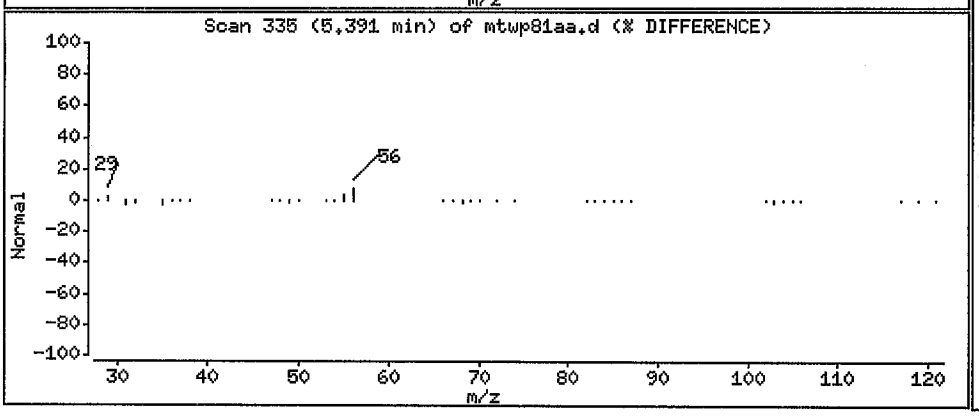
20 Trichlorofluoromethane

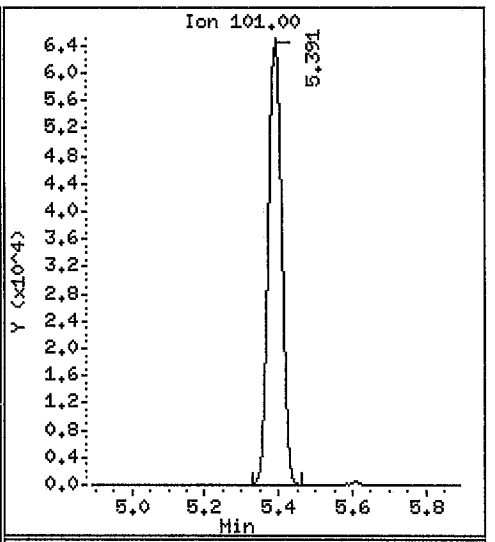
Concentration: 0.3180 ppb(v/v)

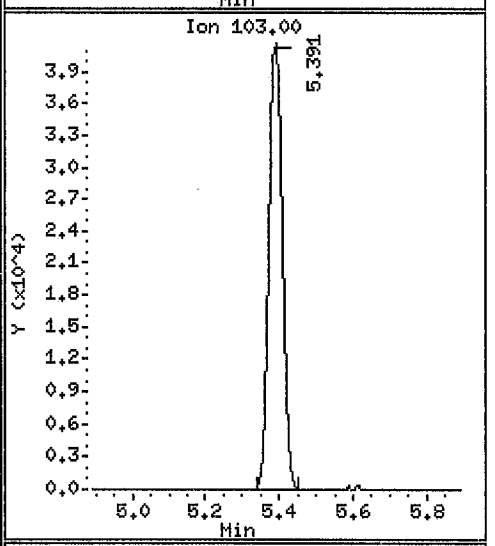


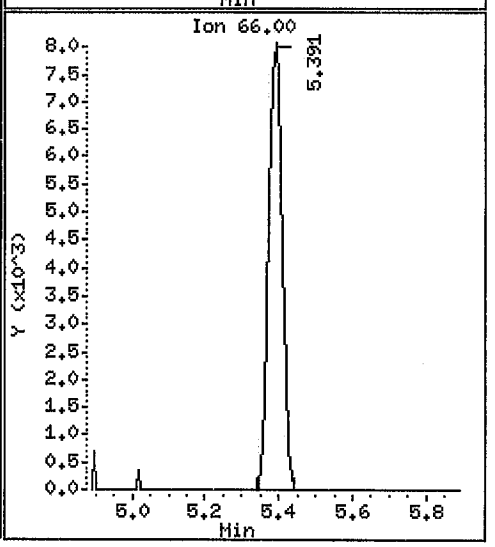












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

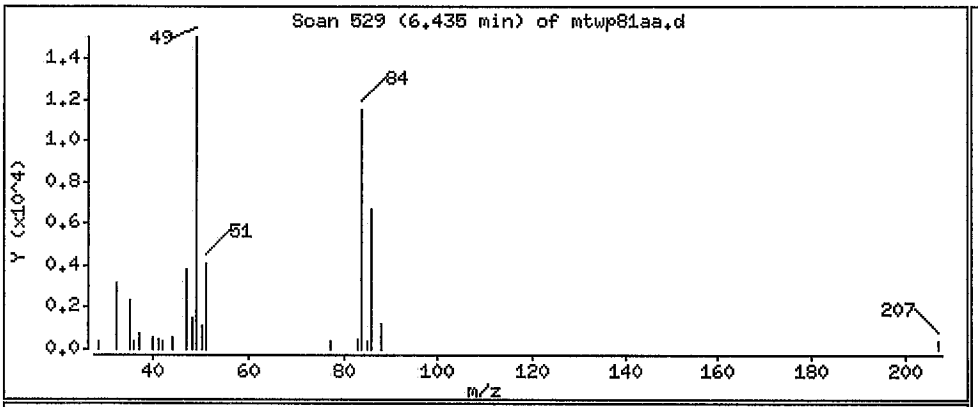
Operator: 7126

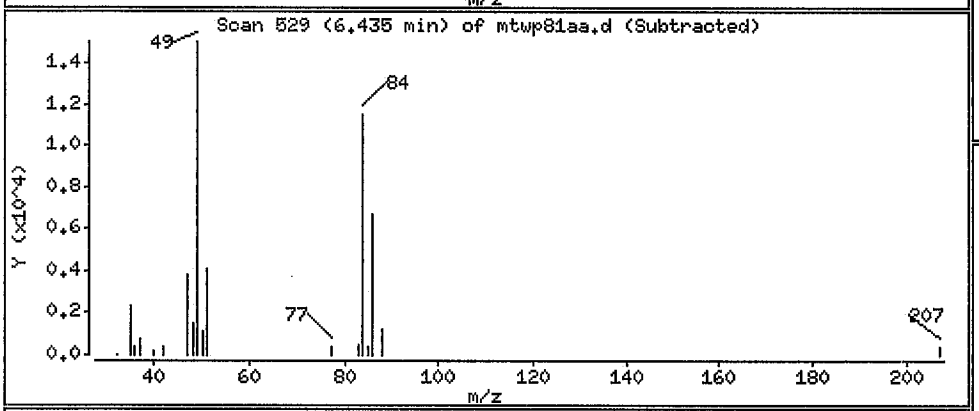
Column phase: Rtx-5

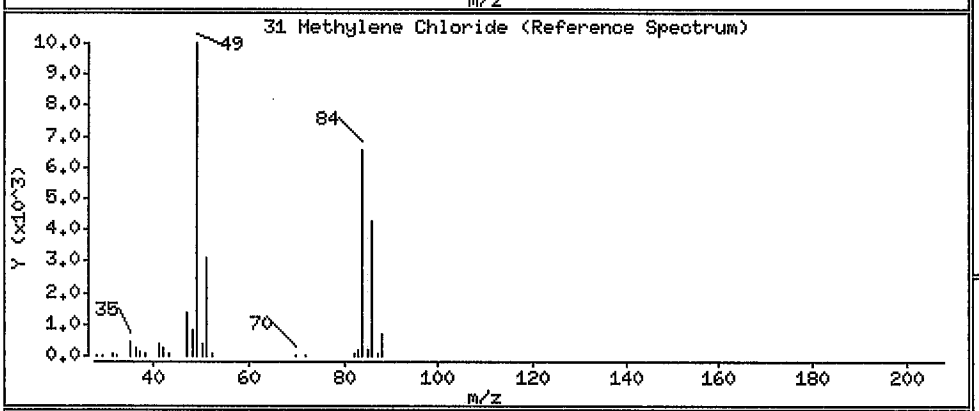
Column diameter: 0.32

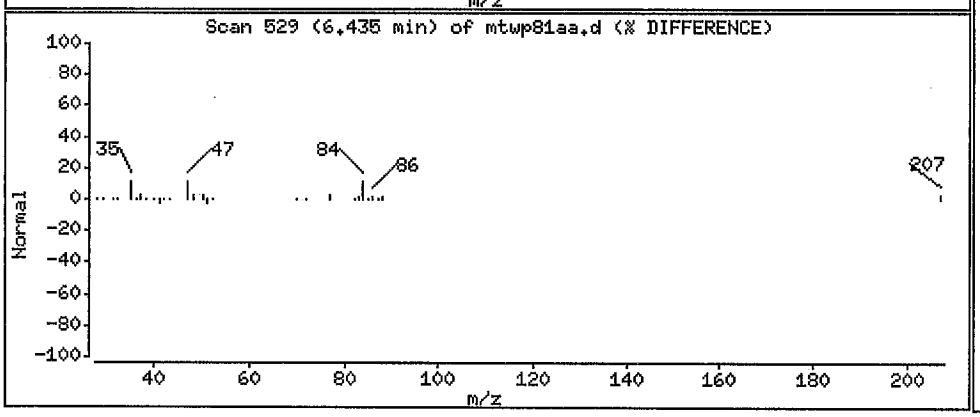
31 Methylene Chloride

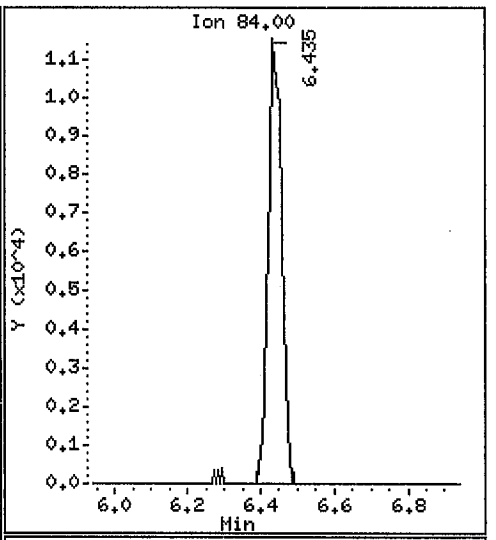
Concentration: 0.2968 ppb(v/v)

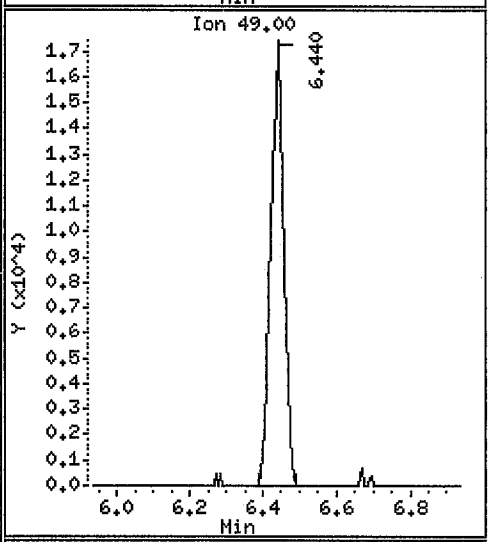


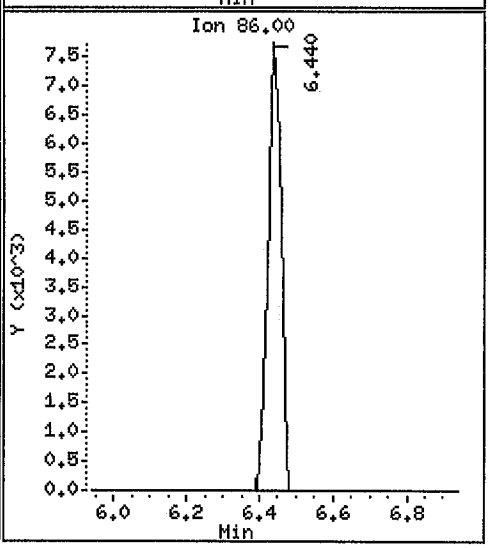












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

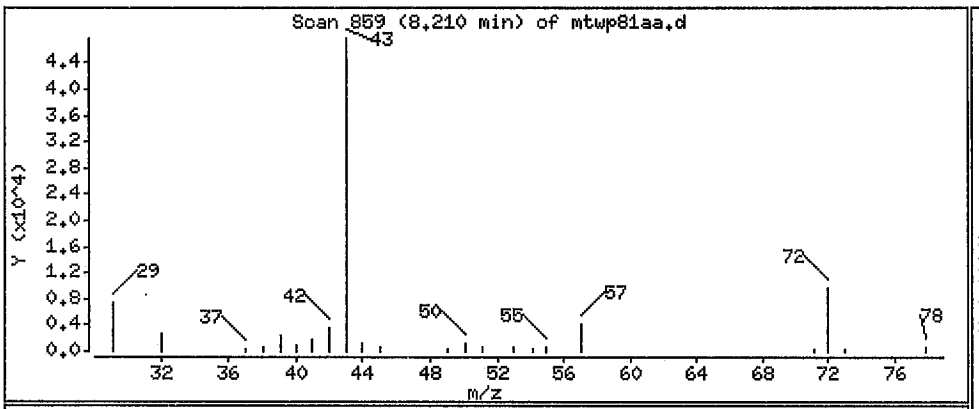
Operator: 7126

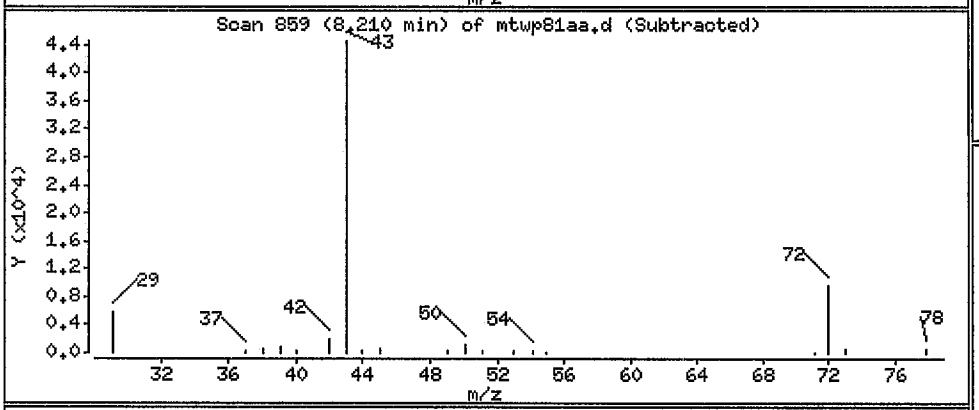
Column phase: Rtx-5

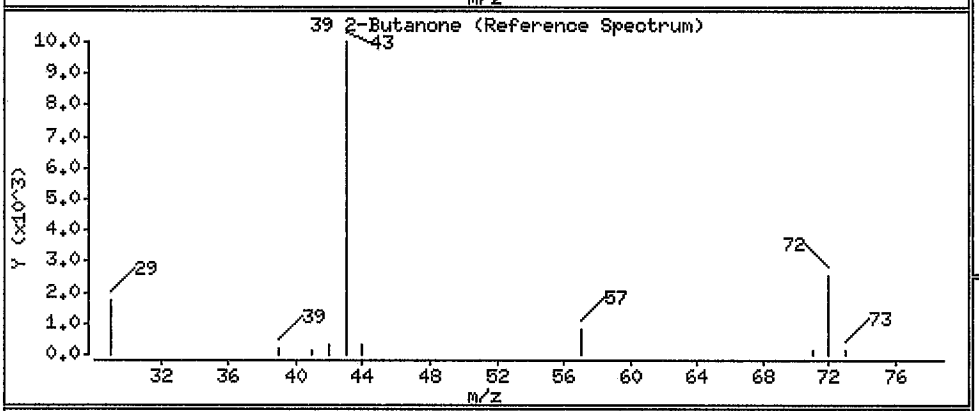
Column diameter: 0.32

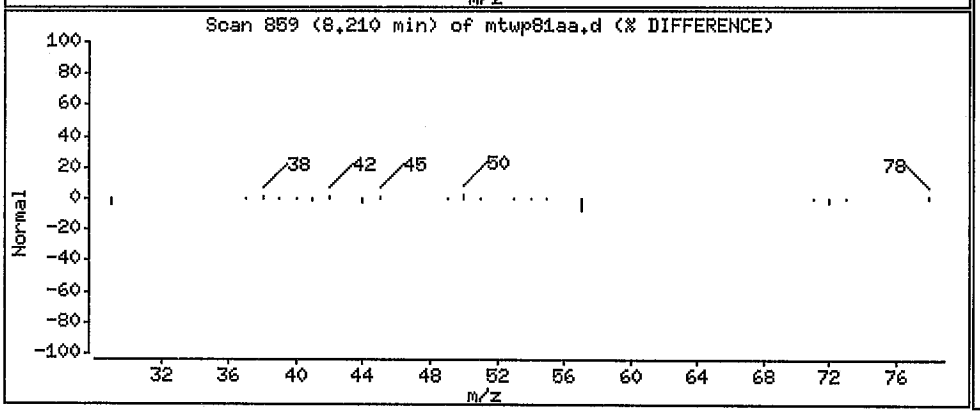
39 2-Butanone

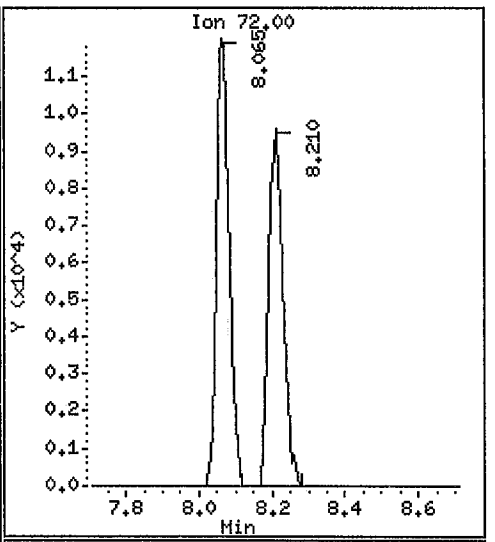
Concentration: 0.6198 ppb(v/v)

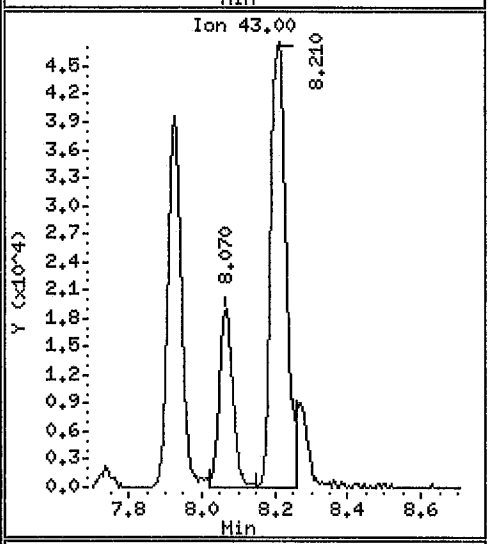


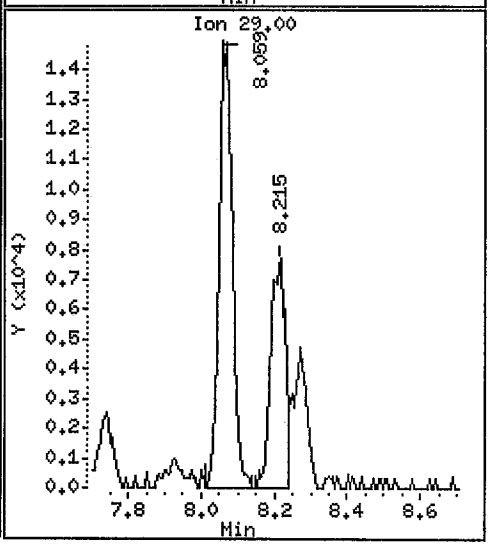












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

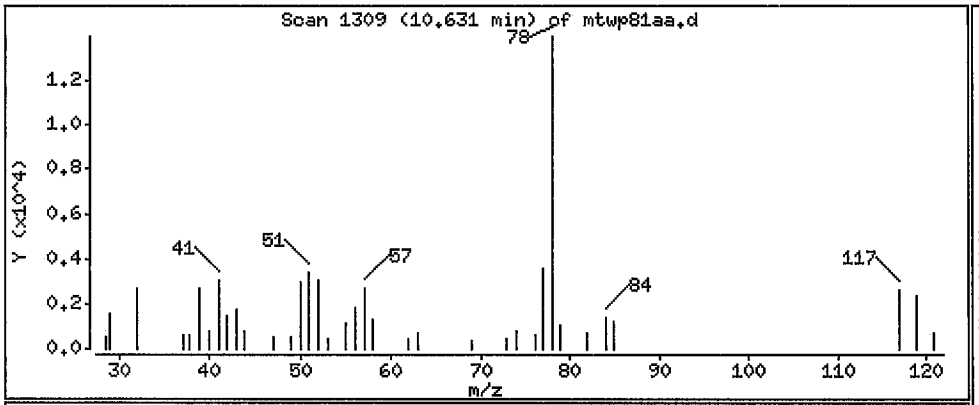
Operator: 7126

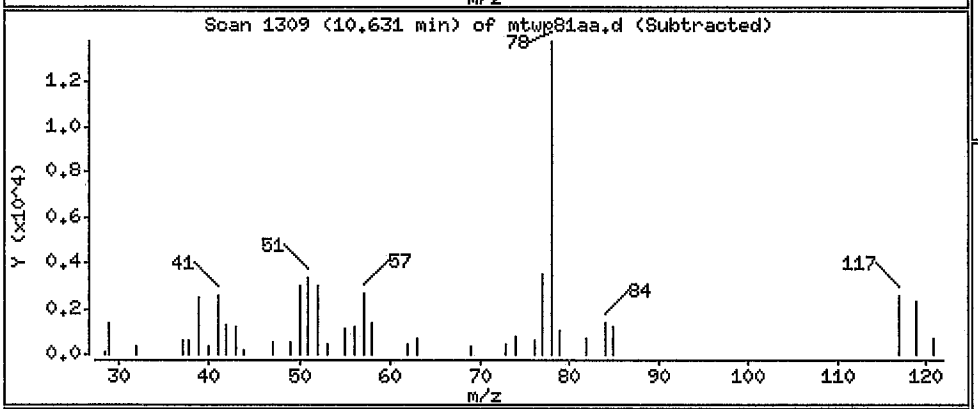
Column phase: Rtx-5

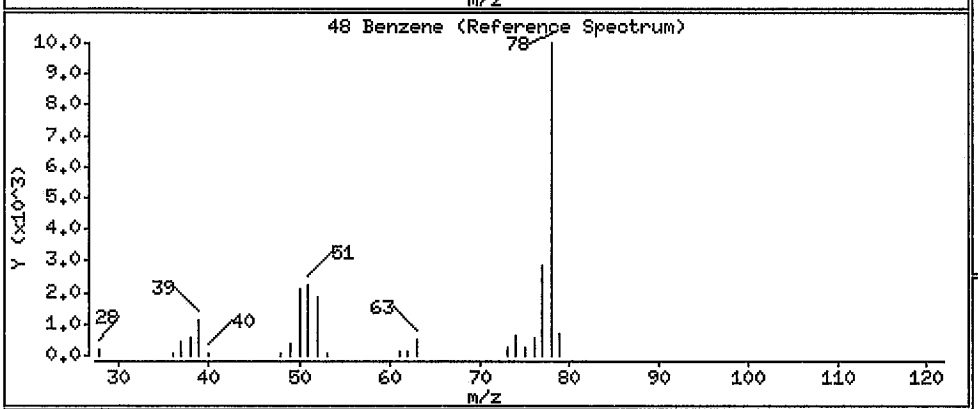
Column diameter: 0.32

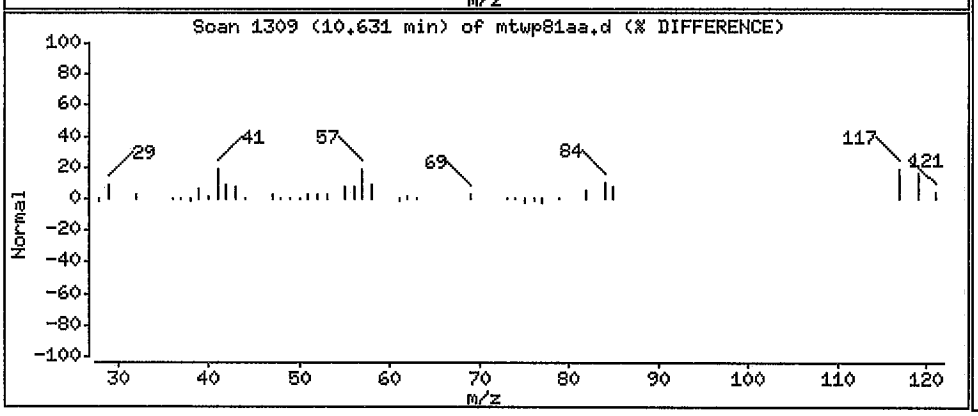
48 Benzene

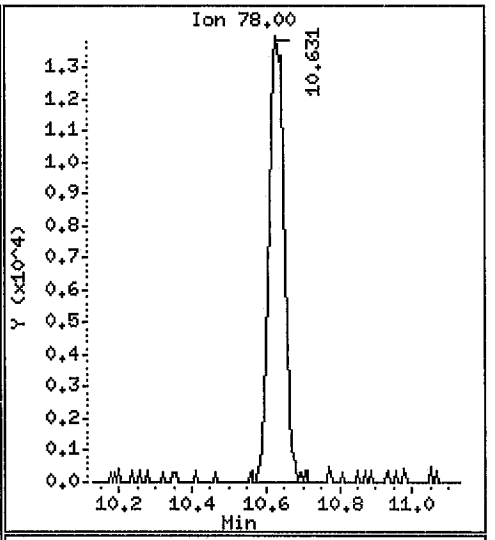
Concentration: 0.1207 ppb(v/v)

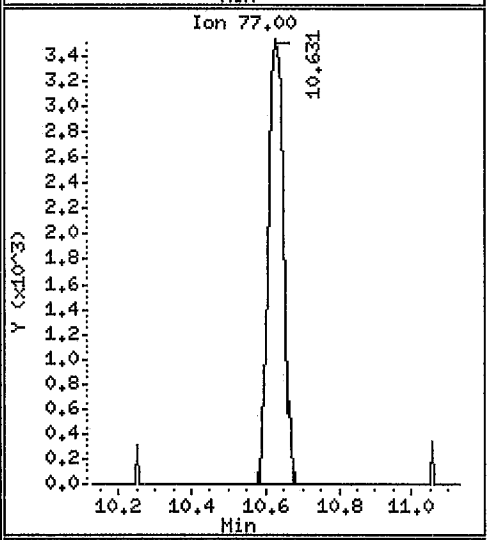


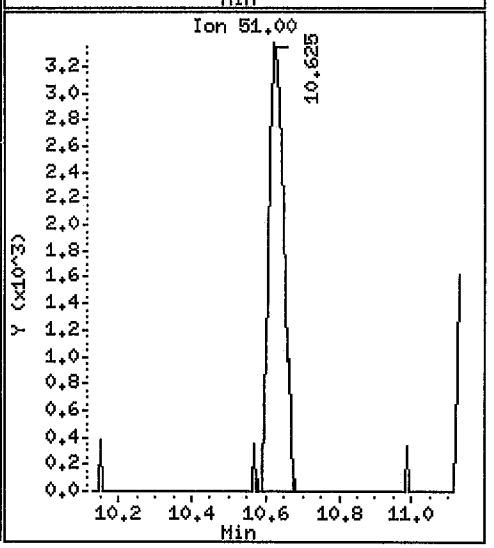












Data File: /var/chem/goms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

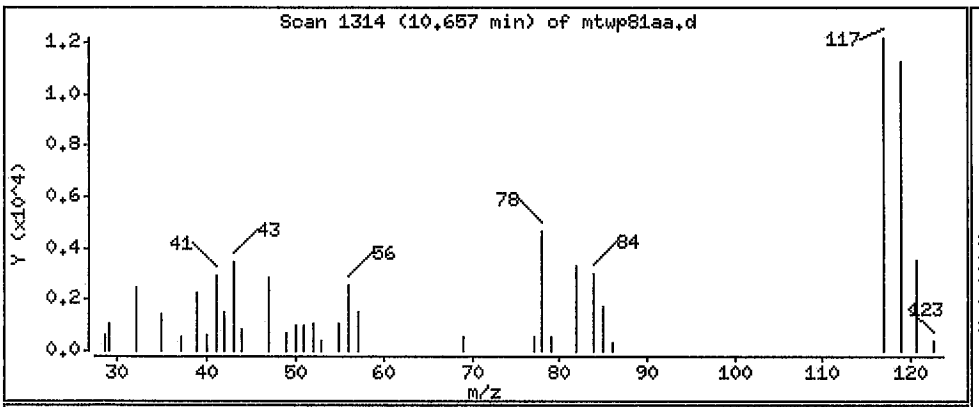
Operator: 7126

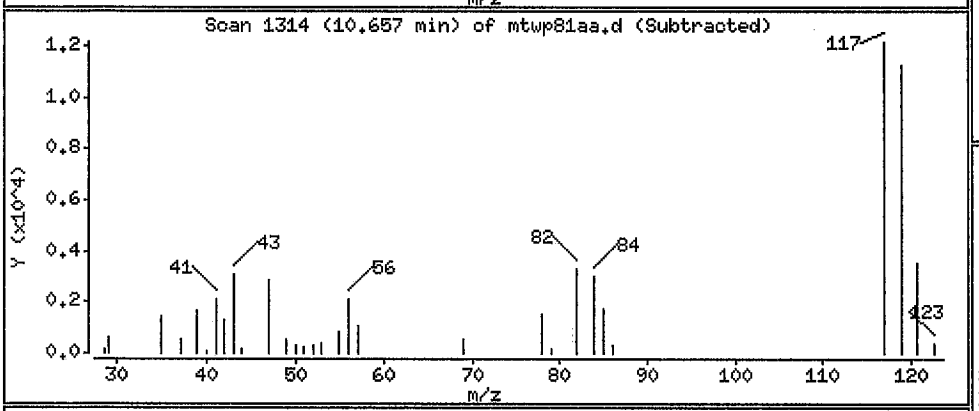
Column phase: Rtx-5

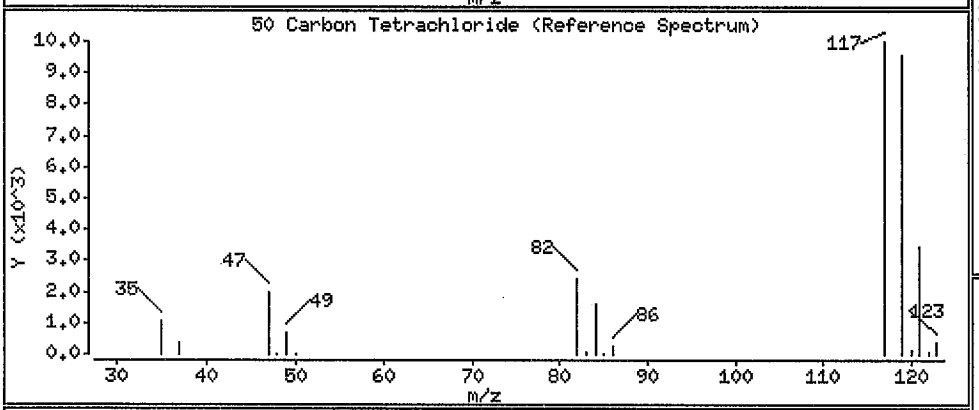
Column diameter: 0.32

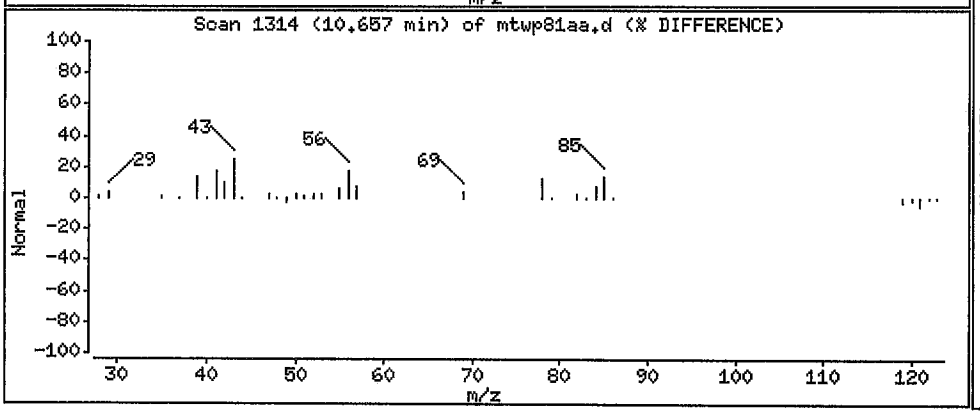
50 Carbon Tetrachloride

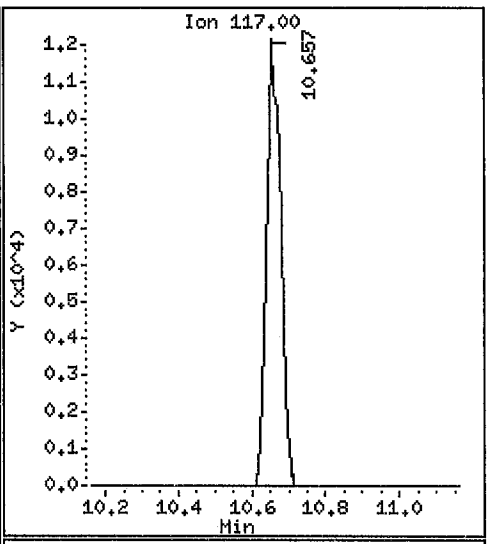
Concentration: 0.08920 ppb(v/v)

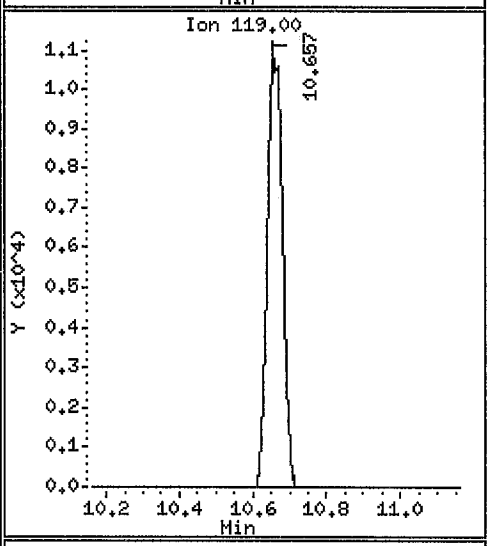


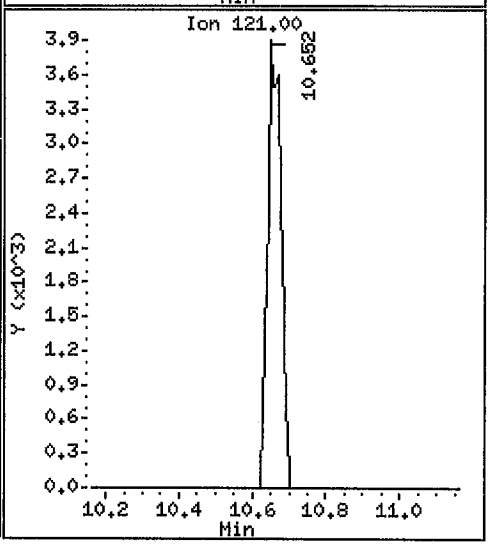












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

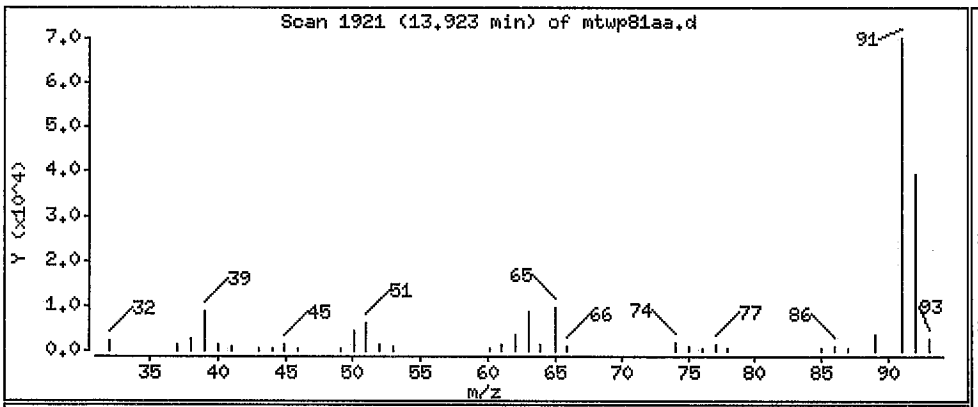
Operator: 7126

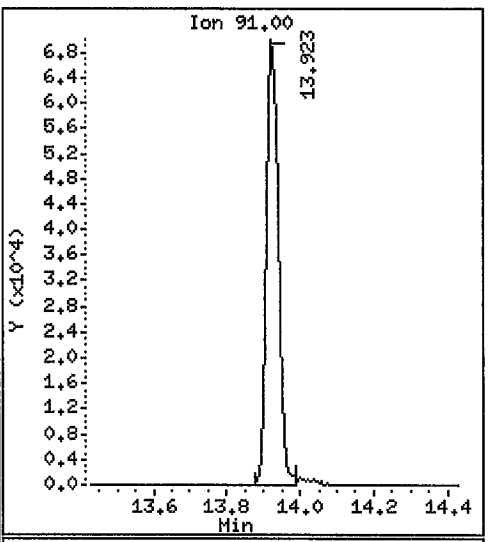
Column phase: Rtx-5

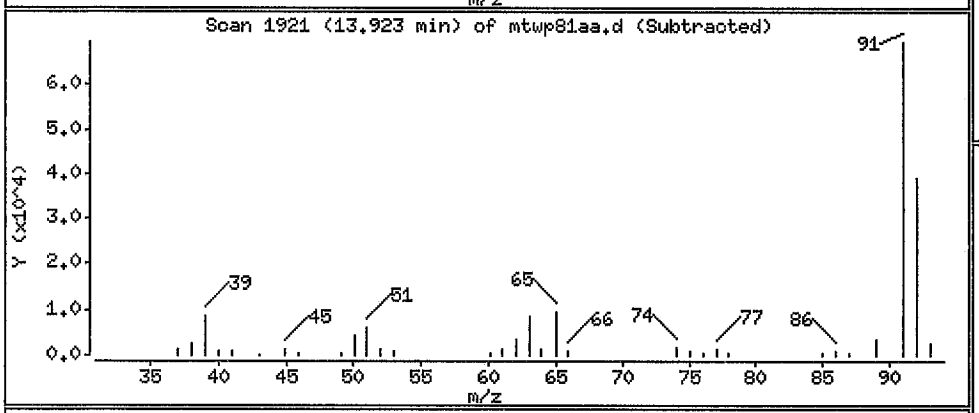
Column diameter: 0.32

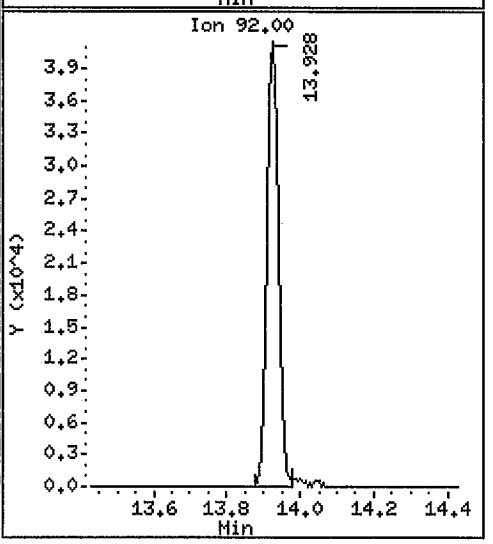
65 Toluene

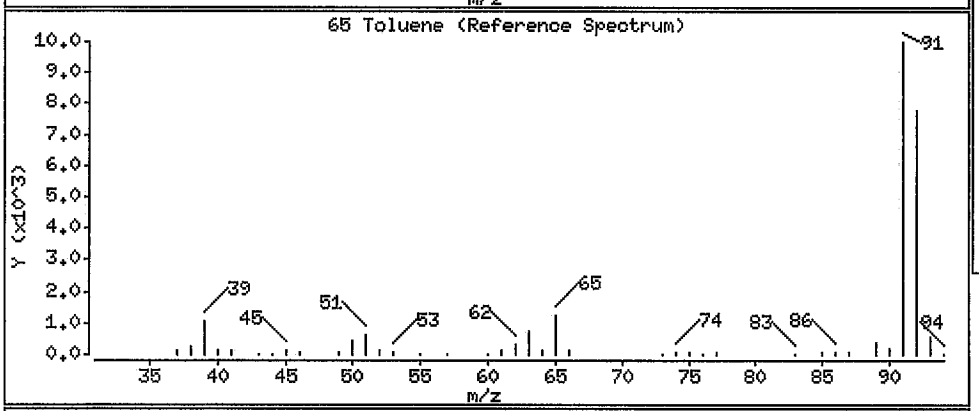
Concentration: 0.4174 ppb(v/v)

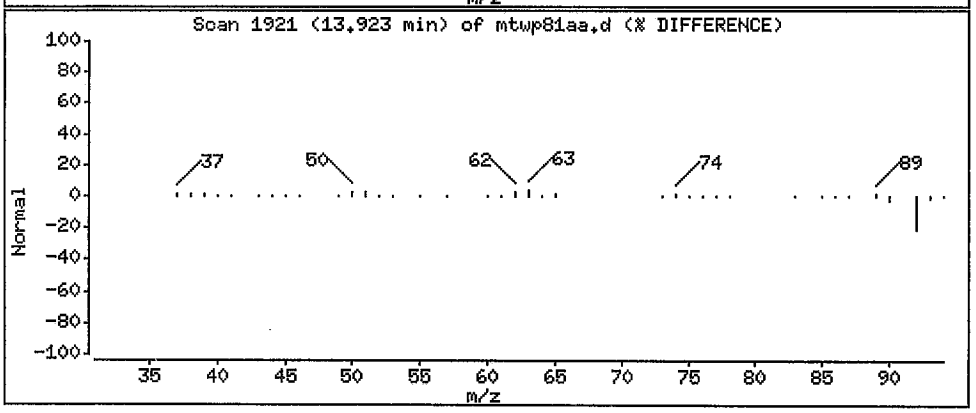












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

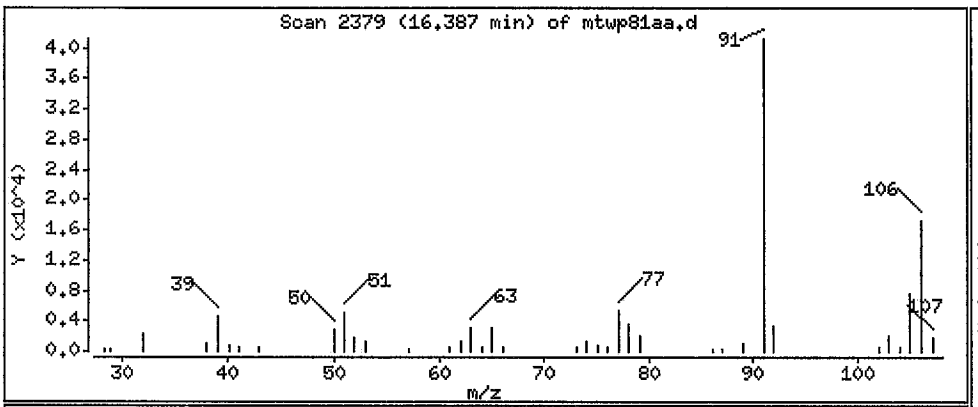
Operator: 7126

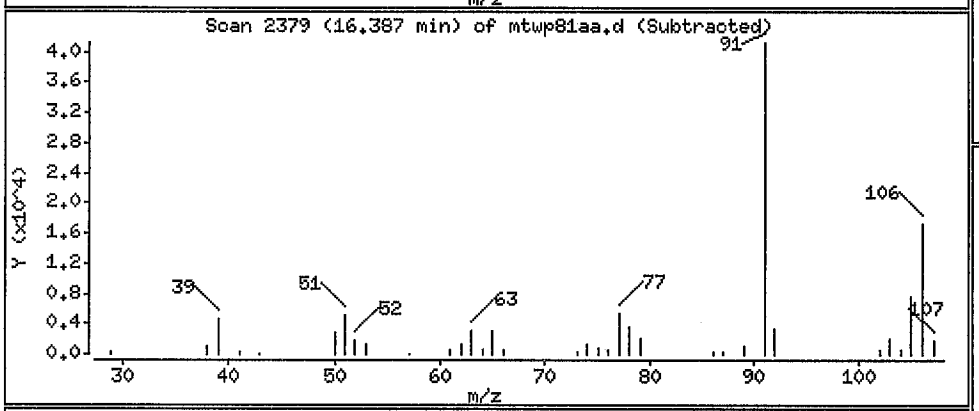
Column phase: Rtx-5

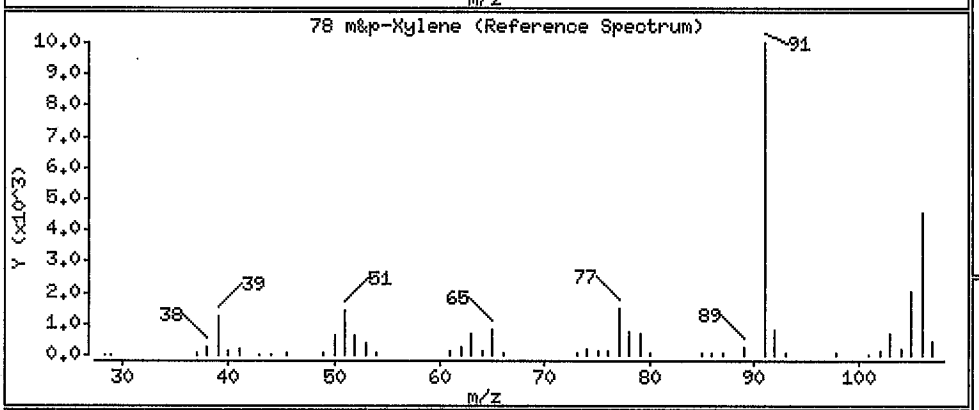
Column diameter: 0.32

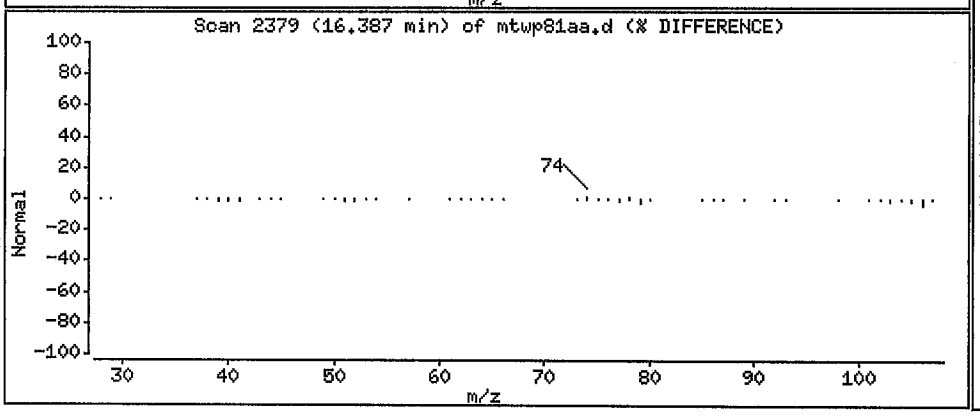
78 m&p-Xylene

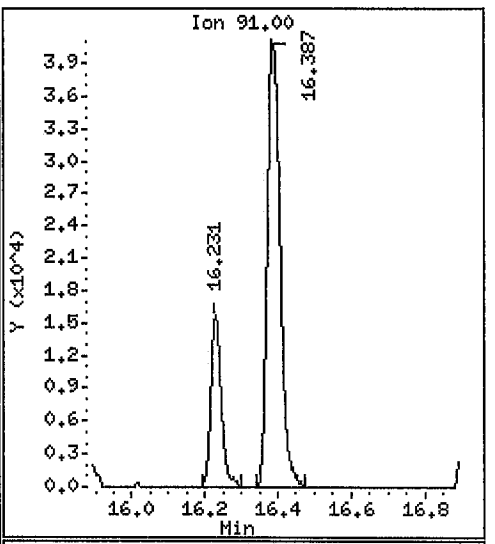
Concentration: 0.2564 ppb(v/v)

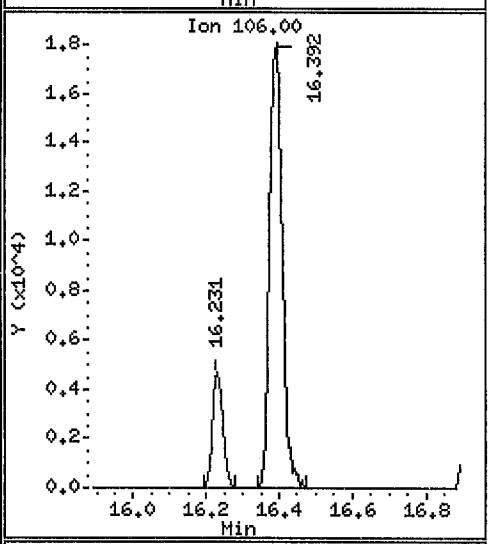


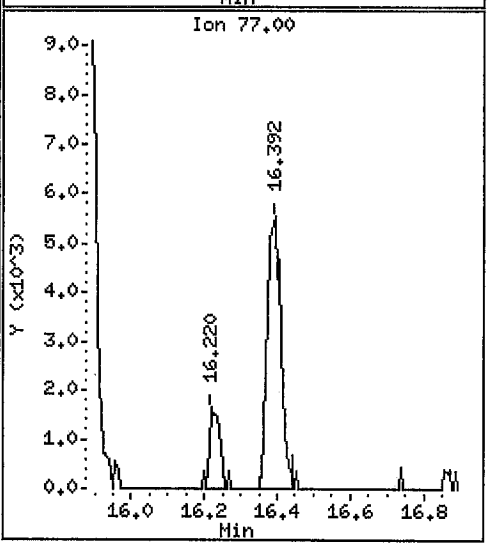












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

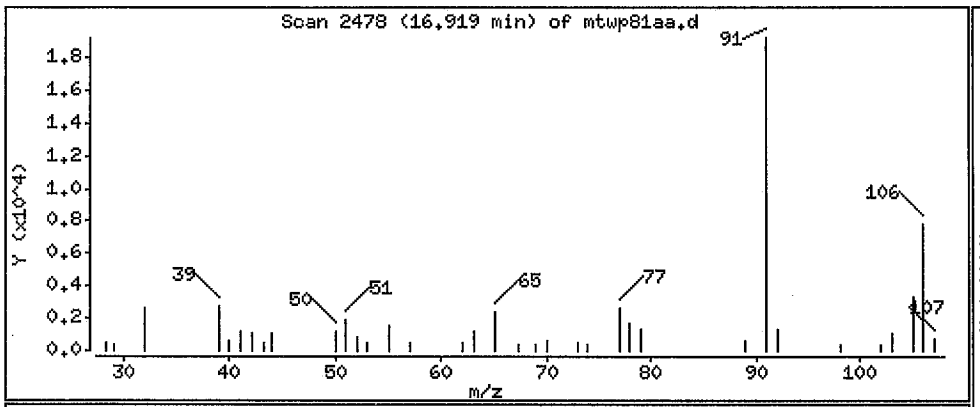
Operator: 7126

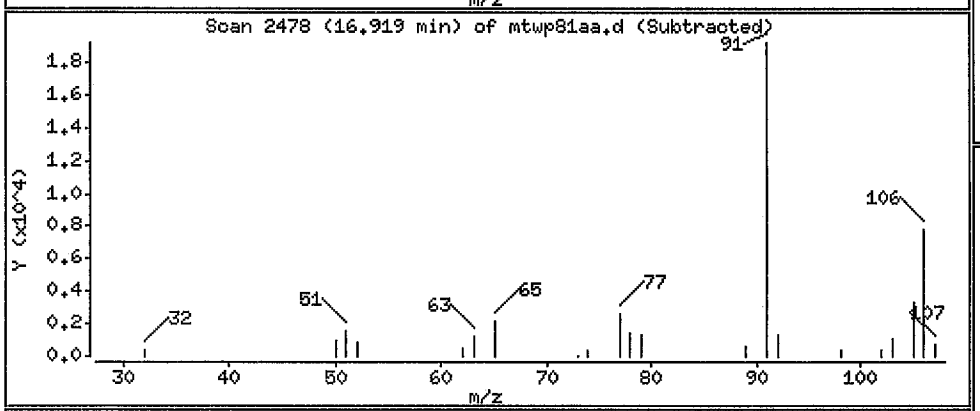
Column phase: Rtx-5

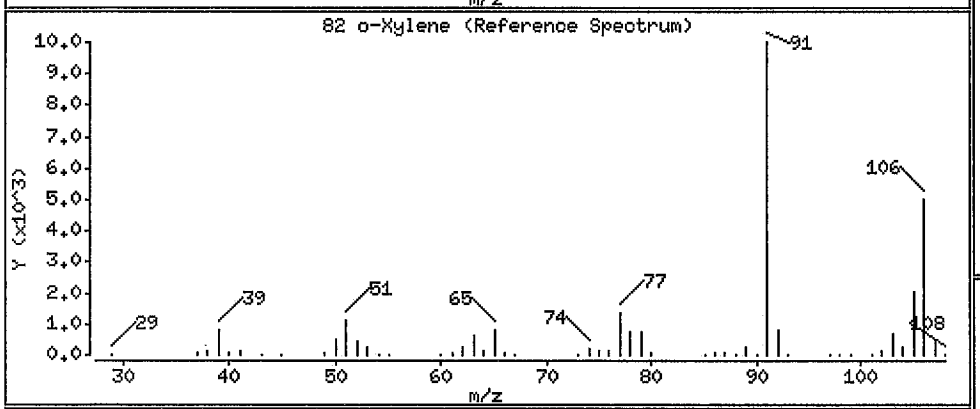
Column diameter: 0.32

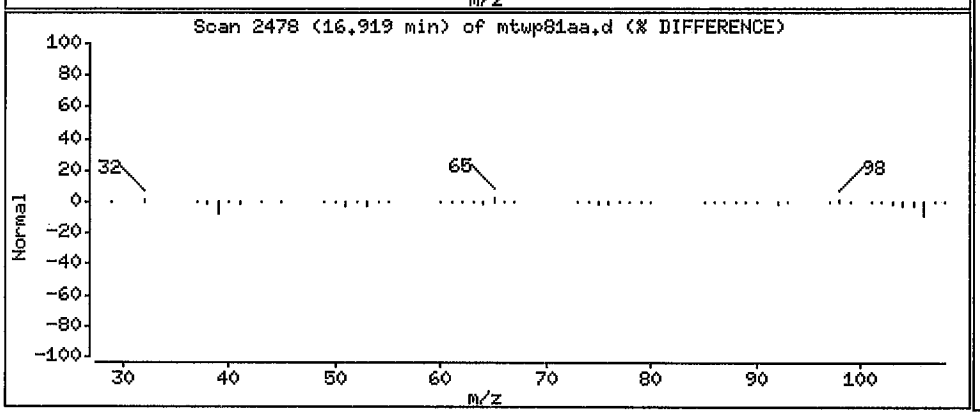
82 o-Xylene

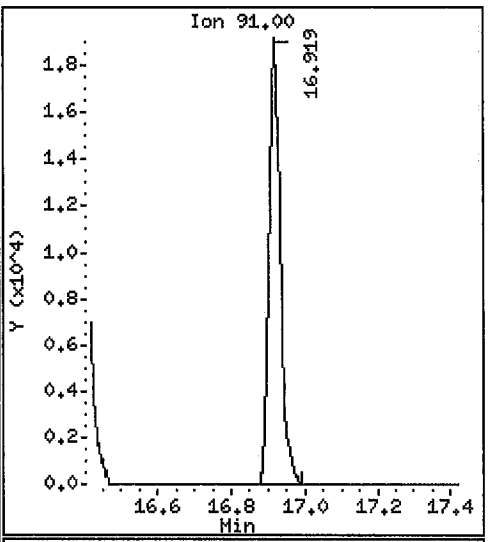
Concentration: 0.09930 ppb(v/v)

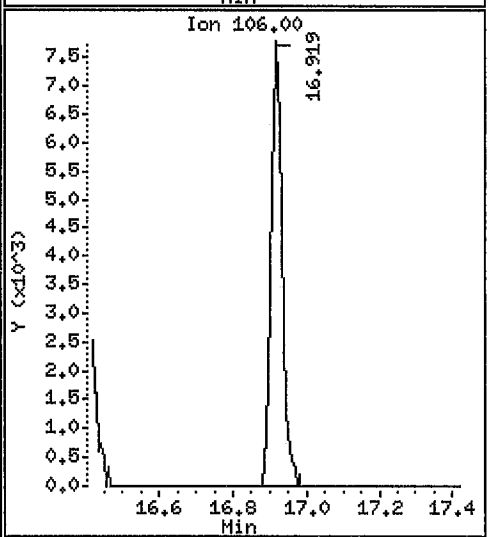


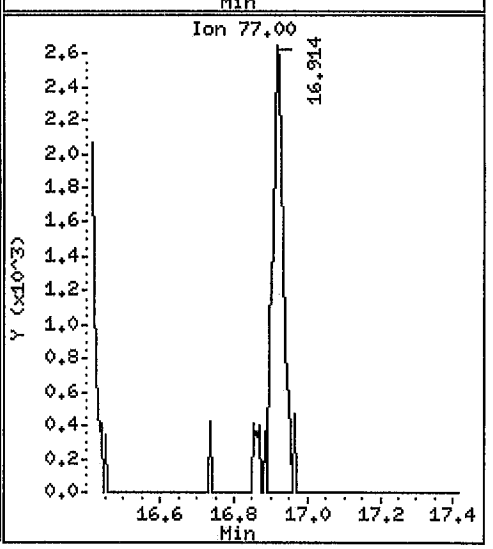












Data File: /var/chem/gcms/mj.i/J060512.b/mtwp81aa.d

Date : 05-JUN-2012 14:43

Client ID: HOUSE # 4 OUTDOOR

Instrument: mj.i

Sample Info: ,,0,,,

Purge Volume: 500.0

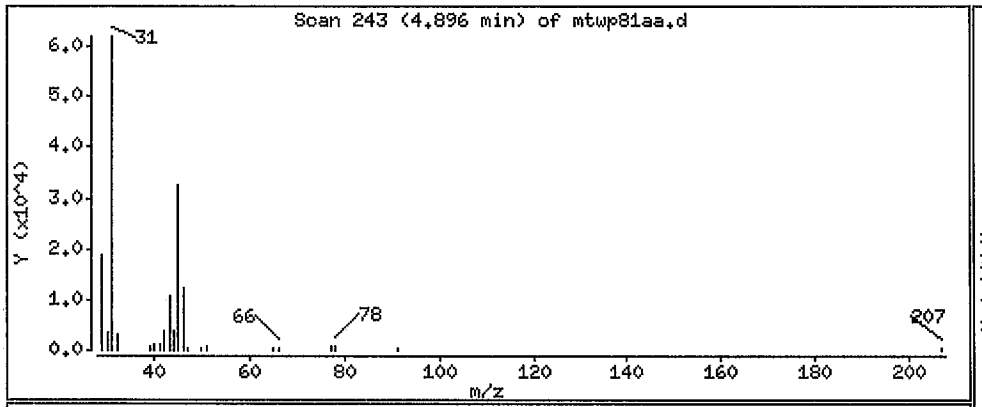
Operator: 7126

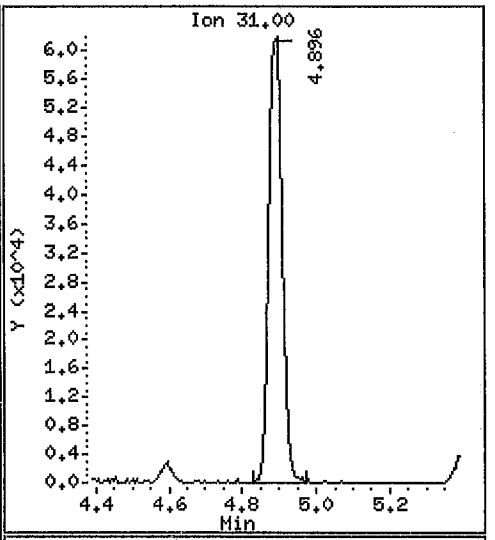
Column phase: Rtx-5

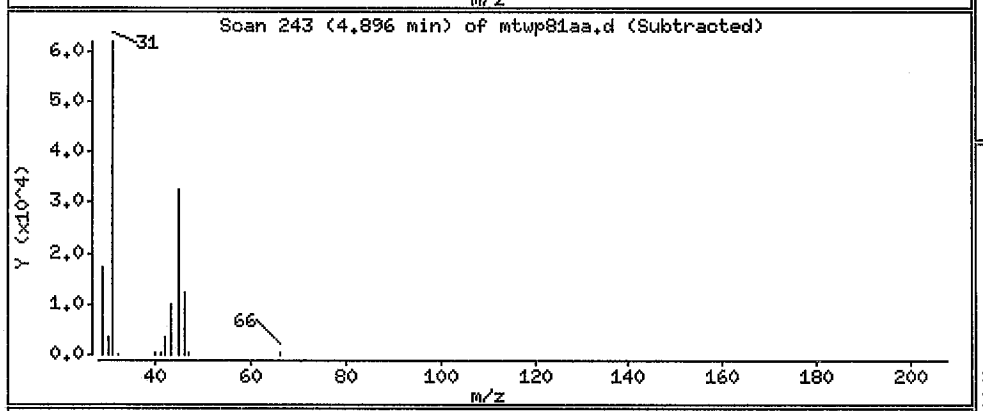
Column diameter: 0.32

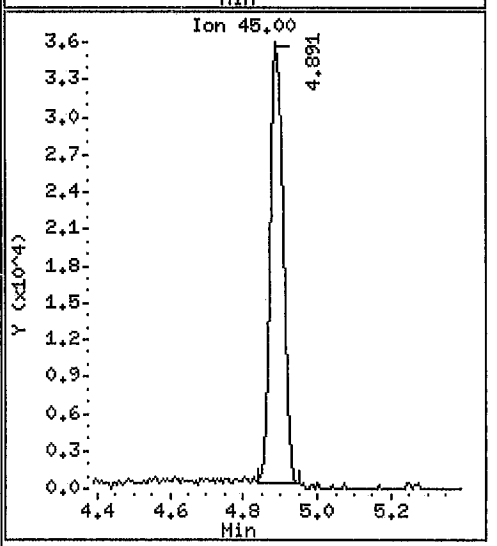
17 ~ ethanol

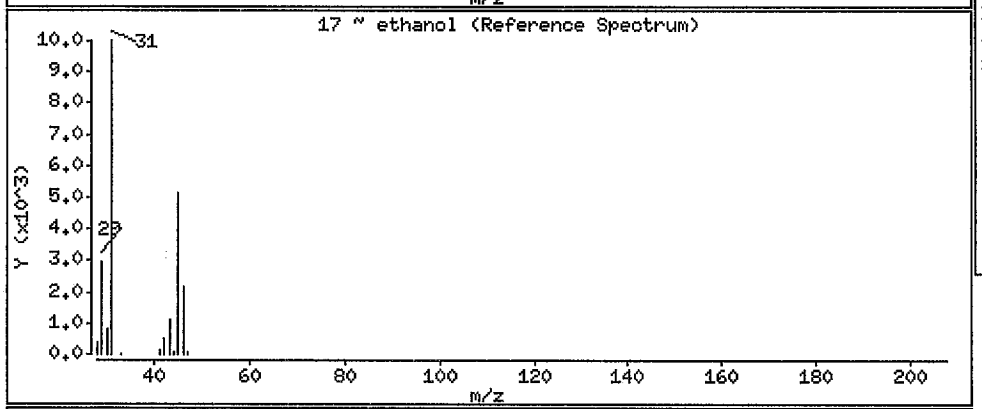
Concentration: 4.322 ppb(v/v)

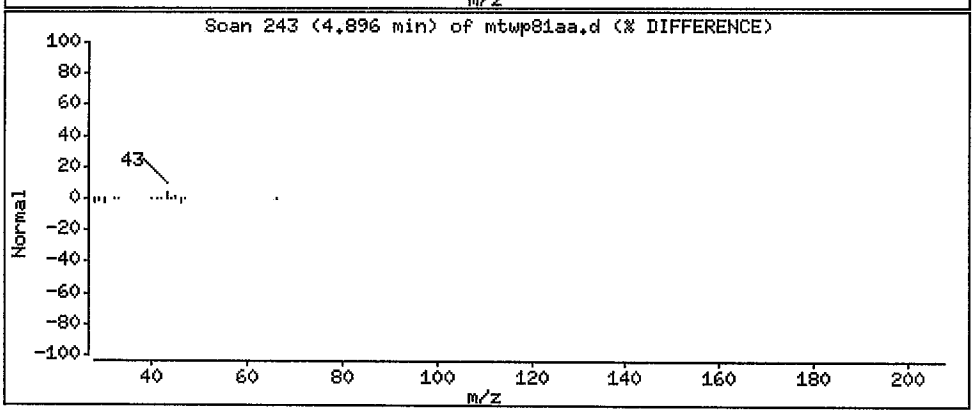












Standards Data

TestAmerica Knoxville GC/MS Air Initial Calibration Data Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 12 & KNOX-MS-0023, Rev 0

Analysis Date:	5/24/12	Instrument::	MJ	ICAL Batch/Scan Name:	J052412I	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd
1. Did BFB meet tune criteria?		✓			✓
2. Were all standards injected within 24 hr of BFB?		✓			✓
3. Was date/time of analysis verified and logbook as correct?		✓			✓
4. Is low level std at or <RL and are the remaining points consecutive?		✓			✓
5. Are the calibration levels correct? (Calculate standard concentration & amt. injected with quan rpt at each level)		✓			✓
6. Was ICAL processed using correct methods and files?		✓			✓
7. Are the ICAL start and end dates/times correct?		✓			✓
8. Were at least 5 levels of each compound analyzed?		✓			✓
9. At least 6 consecutive points used for quadratic curves, and at least 5 consecutive points for linear curves? Note: Ohio does not allow Quad		✓			✓
10. Is %RSD for all target analytes ≤ 30%? (with up to 2 compounds with RSD ≤ 40%)		✓		acetone 32%.	✓
11. If curves were used, is correlation coefficient ≥0.990?		✓		123 TMB	✓
12. For quadratic: is a tangent's slope to the curve entirely positive or negative and continuous.		✓			✓
13. For linear or quadratic: origin NOT "included"? (NOTE: OHIO does NOT allow "FORCE" through origin).		✓		~~force~~ ✓ 060512	✓
14. Is the "Y" intercept less than the RL for each curve?		✓			✓
15. RT for each IS ±20 sec avg. RT?		✓			✓
16. Area for each IS ± 40% avg. area?		✓			✓
17. Each analyte ± 0.06 RRT of avg. RRT?		✓			✓
18. Have all peaks been auto identified? If not, list:		✓			✓
19. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	MJ
20. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in ICAL summary?	✓				MJ
21. Are all the active compounds listed on each quan report?		✓			✓
22. High point checked for saturation and point removed if saturated?		✓			✓
23. Elution order checked on isomeric pairs?		✓			✓
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane		✓			✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane		✓			✓
• vinyl acetate / hexane		✓			✓
• cis- and trans- isomers		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene		✓			✓
• tert-butylbenzene/p-cymene		✓			✓
• 1,2,4-trimethylbenzene/sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene		✓			✓
24. Is the second source analysis of a reference standard within limits? (65-135% R)		✓		124 TMB-67 123-66 Naph-66 all others 70-130	✓
25. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				MJ
26. Does the ICAL folder contain complete data in the following order: Data review checklist, a complete runlog, BFB info, ICAL summary, curves, followed by [Quan reports, chromatograms, manual integrations], in increasing amount order, 2nd source info.		✓			✓

Analyst:	Date: 5/25/12	2nd Level Reviewer :	Date: 060512
Comments:		Comments: #11 is not valid.	

TestAmerica Laboratories, Inc. - Knoxville
CANISTER RUN LOG

GCMS Analysis: AIR

Inst: MJ

Analyst: HMC Qtims Batch: ICAL

Date: 5/25/12 ICAL Batch: J052512I Target Batch: J052512I IS #1 Area: 427058

Surr/IS ID & Vol.: 40mCV425 System Date/Time ok (y/n): y

Preventive Maintenance Performed ☐ Daily

Time	Use	Lot No.	File ID	Can #	Pos	Vol* (mL)	Can DF	Comments
1223	✓	blnk	JBFBE24	–	16	100	1	
1250	OK	MDL	JMDLE24	CX2346	1	50		
1343	✓	ICAL1	JICE241	↓	1	100		
1437	✓	↓ 2	↓ 2	↓	1	200		
1528	✓	3	3	CX2345	2	↓	↓	15:28
1621	✓	4	4	↓ 44	3			
1716	✓	5	5	43	4			17:16
1813	✓	6	6	42	5			
1910	✓	7	7	41	6			
2007	✓	8	8	40	7			
2104	✓	↓ 9	↓ 9	↓ 39	8	↓		
2159	N	blk	blk1	–	16	200		
2254	✓	ICV	JICVE24	CX2336	9	100		
2350	✓	LCS	↓LCS F	↓	9	200		
0047	N	blk	blk2	–	16	500		
0146	✓	↓	JBLKE24	–	16	↓		
0342	N	10+9907	5/25/12 ↓ FIS pos10	11159	10	500		
0439	N	↓	pos11	1524	11	↓		
0539	N		12	6667	12			
0638	N		13	04741	13			
0804	N		↓ 15	12639	15	↓		
0943	canister	stop can	test	CX2352A	14	100	1	

5/25/12

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calulations.

Analyst: _____ Date: 5/25/12

Test America - Knoxville

Entech Autosampler Log

Position	Volume	Date	Time
16	101	5/24/2012	12:23
1	51	5/24/2012	12:50
1	101	5/24/2012	13:43
1	201	5/24/2012	14:37
2	201	5/24/2012	15:28
3	200	5/24/2012	16:21
4	200	5/24/2012	17:16
5	201	5/24/2012	18:13
6	202	5/24/2012	19:10
7	201	5/24/2012	20:07
8	201	5/24/2012	21:04
16	201	5/24/2012	21:59
9	101	5/24/2012	22:54
9	201	5/24/2012	23:50
16	501	5/25/2012	0:47
16	501	5/25/2012	1:46
14	7	5/25/2012	2:43
10	500	5/25/2012	3:42
11	502	5/25/2012	4:39
12	500	5/25/2012	5:39
13	500	5/25/2012	6:38
15	500	5/25/2012	8:04

Data File: /chem/gcms/mj.i/J052412I.b/jbfbe24.d

Date : 24-MAY-2012 12:23

Client ID: BFB

Instrument: mj.i

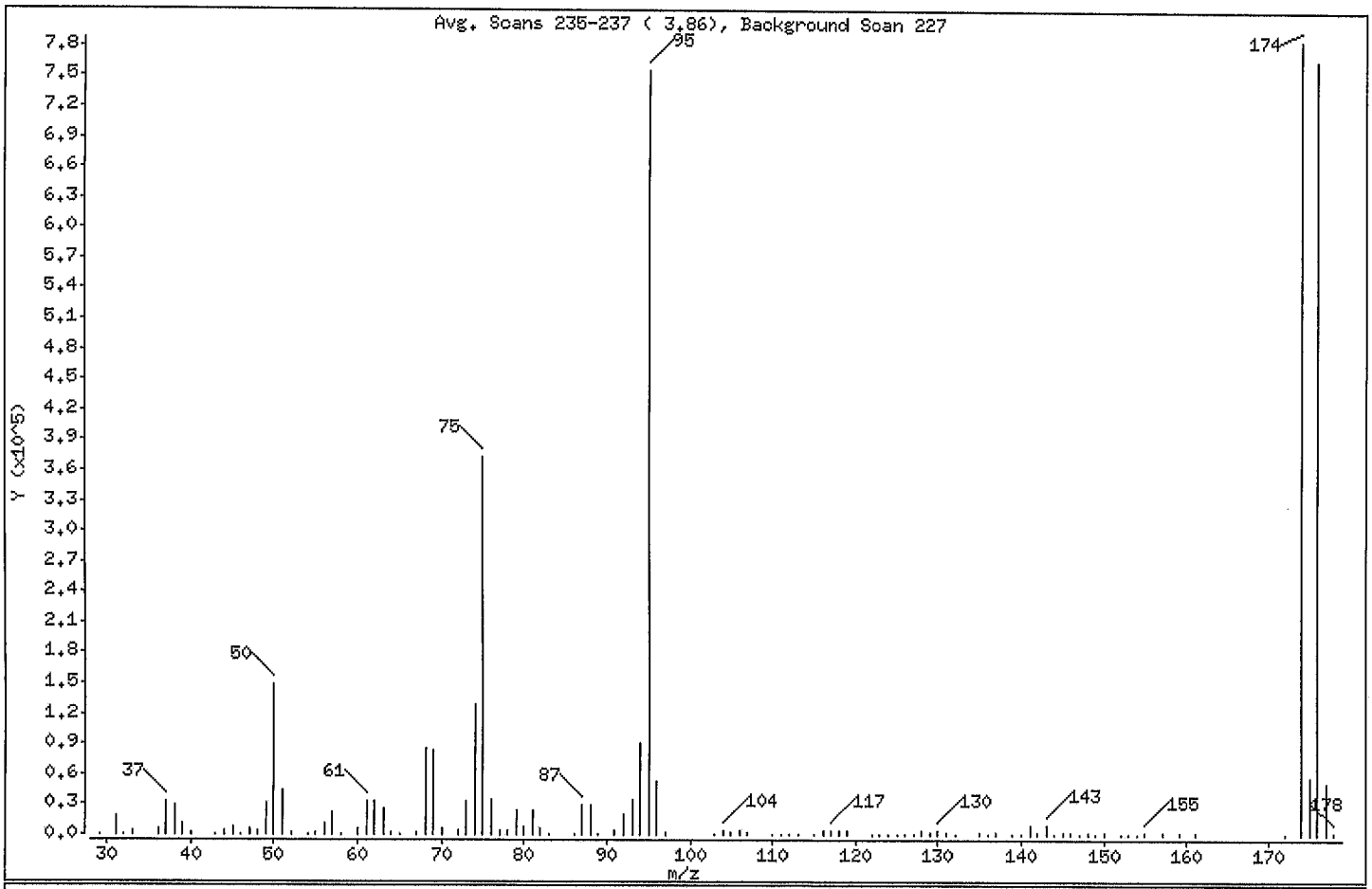
Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32

1 BFB



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	19.61
75	30.00 - 60.00% of mass 95	49.35
96	5.00 - 9.00% of mass 95	7.01
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	104.08
175	5.00 - 9.00% of mass 174	7.47 (7.18)
176	95.00 - 101.00% of mass 174	101.45 (97.47)
177	5.00 - 9.00% of mass 176	6.73 (6.63)

Data File: /chem/gcms/mj.i/J052412I.b/jbfbe24.d

Date : 24-MAY-2012 12:23

Client ID: BFB

Instrument: mj.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32

Data File: jbfbe24.d

Spectrum: Avg. Scans 235-237 (3.86), Background Scan 227

Location of Maximum: 174.00

Number of points: 110

m/z	Y	m/z	Y	m/z	Y	m/z	Y
29.00	29	64.00	2327	97.00	1255	137.00	1320
31.00	18000	65.00	429	103.00	450	139.00	275
32.00	843	67.00	2015	104.00	4124	140.00	664
33.00	3409	68.00	84976	105.00	1236	141.00	9142
36.00	5952	69.00	83144	106.00	3744	142.00	1033
37.00	32448	70.00	6058	107.00	1044	143.00	9572
38.00	28600	72.00	3584	110.00	305	144.00	679
39.00	11223	73.00	31880	111.00	528	145.00	915
40.00	1415	74.00	128144	112.00	409	146.00	1081
43.00	353	75.00	373056	113.00	662	147.00	708
44.00	3155	76.00	33512	115.00	899	148.00	2129
45.00	6430	77.00	3897	116.00	2788	149.00	595
46.00	514	78.00	2824	117.00	4462	150.00	1117
47.00	6150	79.00	24272	118.00	3327	152.00	468
48.00	3907	80.00	7387	119.00	4041	153.00	682
49.00	30072	81.00	24376	122.00	228	154.00	692
50.00	148224	82.00	5426	123.00	117	155.00	2126
51.00	42712	83.00	419	124.00	354	157.00	1625
52.00	1980	86.00	459	125.00	173	159.00	1005
54.00	268	87.00	29048	126.00	382	161.00	1039
55.00	1948	88.00	28400	127.00	251	172.00	197
56.00	11185	89.00	109	128.00	3389	174.00	786880
57.00	21208	91.00	2850	129.00	1555	175.00	56480
58.00	834	92.00	20792	130.00	3280	176.00	766976
60.00	6156	93.00	34456	131.00	1155	177.00	50864
61.00	32816	94.00	89840	132.00	107	178.00	1403
62.00	32528	95.00	755968	135.00	1763		
63.00	26096	96.00	52968	136.00	142		

Data File: /chem/gcms/mj.i/J052412I.b/jbfbe24.d

Date : 24-MAY-2012 12:23

Client ID: BFB

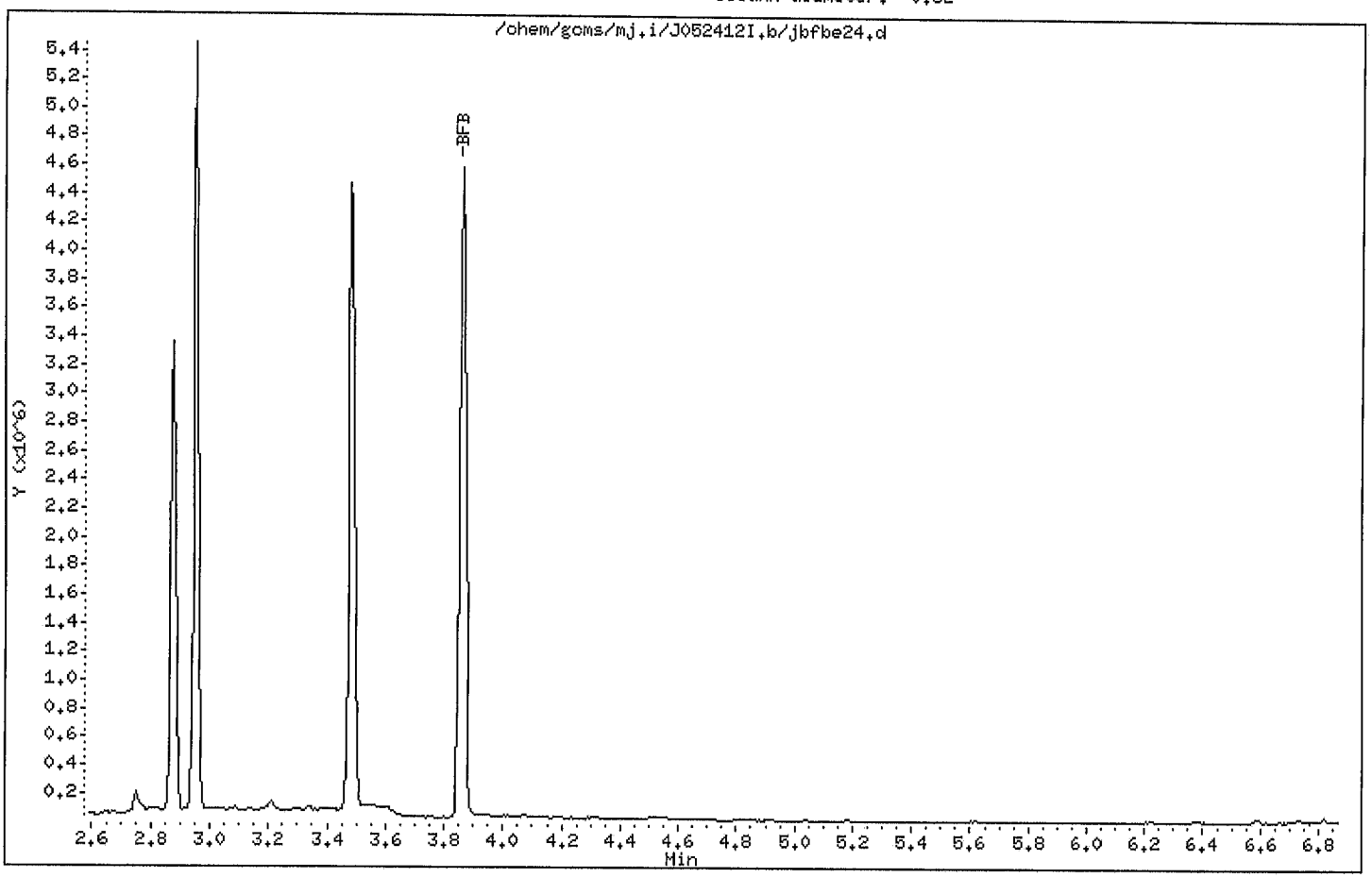
Instrument: mj.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32



Report Date:05/25/2012

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mj.i/J052412I.b/jice241.d
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STD 9 = /var/chem/gcms/mj.i/J052412I.b/jice249.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
Chlorobenzene-d5	15.896	15.897	15.897	15.897	15.898	15.896	15.895	15.899	15.898	15.897
1,4-Difluorobenzene	11.173	11.168	11.168	11.168	11.169	11.168	11.172	11.176	11.175	11.171
Bromochloromethane	8.989	8.984	8.990	8.984	8.985	8.989	8.988	8.992	8.996	8.988
4-Bromofluorobenzene	1.103	1.103	1.103	1.103	1.103	1.103	1.103	1.103	1.103	1.103
~ 2-nitropropane	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00
~ 2-Methylnaphthalene	NA	NA	1.401	1.401	1.401	1.401	1.401	1.401	1.401	1.401
Chlorodifluoromethane	NA	0.426	0.427	0.427	0.427	0.427	0.427	0.427	0.426	0.427
Propene	NA	NA	0.428	0.428	0.428	0.428	0.428	0.428	0.428	0.428
Dichlorodifluoromethane	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434	0.434
Chloromethane	NA	NA	0.454	0.454	0.454	0.454	0.454	0.454	0.453	0.454
1,2-Dichlorotetrafluoroethan	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455	0.455
Methanol	NA	NA	NA	NA	0.468	0.468	0.468	0.469	0.469	0.468
~ acetaldehyde	NA	NA	0.472	0.471	0.471	0.470	0.471	0.470	0.470	0.471
Vinyl Chloride	0.473	0.474	0.473	0.473	0.474	0.473	0.473	0.473	0.473	0.473
n-Butane	NA	NA	0.484	0.484	0.484	0.484	0.483	0.483	0.483	0.484
1,3-Butadiene	NA	0.483	0.484	0.483	0.483	0.484	0.483	0.483	0.483	0.483
Bromomethane	NA	0.519	0.519	0.519	0.520	0.519	0.519	0.519	0.519	0.519
Chloroethane	NA	0.535	0.535	0.535	0.536	0.535	0.535	0.534	0.535	0.535
~ ethanol	NA	NA	0.545	0.544	0.545	0.544	0.545	0.545	0.546	0.545
Vinyl Bromide	0.568	0.569	0.570	0.569	0.570	0.569	0.569	0.569	0.569	0.569
2-methyl butane	0.576	0.575	0.576	0.575	0.576	0.576	0.576	0.575	0.575	0.576
Trichlorofluoromethane	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.600	0.599	0.600
Acrolein	NA	NA	0.600	0.599	0.599	0.599	0.599	0.599	0.599	0.599
Acetonitrile	NA	NA	NA	0.607	0.605	0.606	0.606	0.606	0.606	0.606
Acetone	NA	NA	NA	NA	0.613	0.612	0.612	0.612	0.612	0.612
Isopropyl alcohol	NA	NA	0.621	0.621	0.621	0.621	0.621	0.621	0.622	0.621
Pentane	NA	NA	0.625	0.626	0.625	0.625	0.625	0.625	0.625	0.625
Ethyl Ether	NA	0.642	0.644	0.642	0.642	0.642	0.643	0.642	0.642	0.642
1,1-Dichloroethene	0.679	0.678	0.679	0.678	0.679	0.679	0.679	0.679	0.678	0.679
tert-butanol	NA	NA	0.688	0.687	0.687	0.686	0.687	0.687	0.687	0.687
Acrylonitrile	0.689	0.687	0.689	0.688	0.689	0.688	0.688	0.688	0.688	0.688
1,1,2-Trichlorotrifluoroetha	0.699	0.699	0.700	0.699	0.699	0.699	0.699	0.699	0.699	0.699
Methylene Chloride	NA	NA	0.717	0.717	0.717	0.716	0.717	0.716	0.716	0.716
3-Chloropropene	NA	0.718	0.719	0.718	0.719	0.719	0.719	0.719	0.719	0.719
Carbon Disulfide	0.736	0.735	0.736	0.736	0.736	0.735	0.735	0.736	0.735	0.736
trans-1,2-Dichloroethene	0.807	0.807	0.808	0.808	0.808	0.807	0.808	0.807	0.807	0.807
~ 2-Methyl Pentane	0.811	0.811	0.812	0.811	0.811	0.811	0.811	0.811	0.811	0.811

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

Report Date:05/25/2012

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mj.i/J052412I.b/jice241.d
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STD 8 = /var/chem/gcms/mj.i/J052412I.b/jice248.d
STD 9 = /var/chem/gcms/mj.i/J052412I.b/jice249.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
Methyl-t-Butyl Ether	0.823	0.823	0.822	0.822	0.822	0.821	0.821	0.821	0.821	0.822
1,1-Dichloroethane	0.853	0.854	0.854	0.854	0.854	0.854	0.854	0.853	0.853	0.854
Vinyl Acetate	NA	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865	0.865
2-Butanone	NA	NA	0.915	0.914	0.914	0.913	0.914	0.913	0.913	0.914
Hexane	NA	0.920	0.921	0.921	0.921	0.920	0.920	0.920	0.920	0.920
cis 1,2-Dichloroethene	0.963	0.963	0.963	0.963	0.963	0.963	0.963	0.964	0.964	0.963
Ethyl acetate	NA	0.984	0.983	0.983	0.984	0.983	0.983	0.983	0.983	0.983
Chloroform	1.001	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002	1.002
Tetrahydrofuran	NA	1.048	1.047	1.046	1.046	1.045	1.045	1.045	1.045	1.046
1,1,1-Trichloroethane	1.118	1.117	1.117	1.118	1.117	1.117	1.117	1.117	1.117	1.117
1,2-Dichloroethane	0.907	0.907	0.908	0.907	0.908	0.908	0.908	0.907	0.908	0.908
1-Butanol	NA	NA	0.946	0.946	0.946	0.946	0.945	0.945	0.946	0.946
Benzene	0.952	0.952	0.953	0.952	0.952	0.952	0.952	0.952	0.952	0.952
Cyclohexane	0.953	0.953	0.954	0.954	0.954	0.954	0.953	0.953	0.954	0.954
Carbon Tetrachloride	0.954	0.955	0.955	0.955	0.955	0.955	0.955	0.955	0.955	0.955
~ 2,3-dimethylpentane	NA	0.964	0.964	0.964	0.964	0.965	0.964	0.964	0.964	0.964
~ Thiophene	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976
2,2,4-trimethylpentane	1.022	1.022	1.022	1.022	1.022	1.022	1.021	1.021	1.022	1.022
Heptane	1.054	1.055	1.055	1.055	1.055	1.055	1.054	1.054	1.055	1.055
1,2-Dichloropropane	NA	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060
Trichloroethene	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064	1.064
Dibromomethane	1.070	1.070	1.070	1.071	1.070	1.071	1.070	1.070	1.071	1.070
Bromodichloromethane	1.084	1.083	1.083	1.084	1.084	1.084	1.083	1.083	1.084	1.084
1,4-dioxane	NA	NA	1.084	1.084	1.084	1.084	1.083	1.083	1.084	1.084
~ 1-Methylnaphthalene	NA	NA	1.410	1.410	1.410	1.410	1.410	1.410	1.410	1.410
Methyl Methacrylate	NA	1.092	1.092	1.092	1.092	1.092	1.091	1.091	1.092	1.092
~ methyl cyclohexane	1.134	1.134	1.134	1.134	1.134	1.134	1.134	1.133	1.134	1.134
4-Methyl-2-pentanone	1.168	1.168	1.168	1.168	1.168	1.168	1.167	1.166	1.167	1.168
cis-1,3-Dichloropropene	1.172	1.173	1.173	1.173	1.173	1.173	1.173	1.173	1.173	1.173
trans-1,3-Dichloropropene	0.868	0.868	0.868	0.868	0.868	0.868	0.868	0.868	0.868	0.868
Toluene	0.876	0.876	0.876	0.876	0.876	0.876	0.876	0.876	0.876	0.876
1,1,2-Trichloroethane	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880
~ 2-methyl thiophene	0.886	0.886	0.886	0.886	0.886	0.886	0.886	0.886	0.886	0.886
~ 3-methyl thiophene	0.899	0.898	0.898	0.898	0.898	0.898	0.898	0.898	0.899	0.898
2-Hexanone	NA	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904	0.904
Octane	0.920	0.920	0.920	0.920	0.920	0.920	0.920	0.920	0.920	0.920
Dibromochloromethane	0.924	0.924	0.924	0.924	0.924	0.924	0.925	0.924	0.925	0.924

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

INITIAL CALIBRATION RT and RRT REPORT

STD 1 = /var/chem/gcms/mj.i/J052412I.b/jice241.d
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STD 8 = /var/chem/gcms/mj.i/J052412I.b/jice248.d
STD 9 = /var/chem/gcms/mj.i/J052412I.b/jice249.d

COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
1,2-Dibromoethane	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943	0.943
Tetrachloroethene	0.948	0.948	0.948	0.948	0.948	0.948	0.948	0.948	0.948	0.948
Chlorobenzene	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003	1.003
~ 2,3-dimethylheptane	NA	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005	1.005
Ethylbenzene	1.022	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.022	1.021
~ 2-ethyl thiophene	1.027	1.027	1.027	1.028	1.028	1.028	1.028	1.028	1.028	1.028
m&p-Xylene	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.031	1.032	1.031
Nonane	1.058	1.058	1.058	1.058	1.058	1.058	1.058	1.058	1.058	1.058
Bromoform	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059	1.059
Styrene	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060	1.060
o-Xylene	1.065	1.065	1.065	1.065	1.064	1.065	1.065	1.065	1.065	1.065
1,1,2,2-Tetrachloroethane	1.084	1.084	1.084	1.084	1.084	1.084	1.084	1.084	1.084	1.084
1,2,3-Trichloropropane	NA	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094	1.094
Cumene	1.102	1.101	1.102	1.102	1.101	1.102	1.102	1.102	1.102	1.102
n-Propylbenzene	1.135	1.135	1.135	1.135	1.135	1.135	1.135	1.135	1.135	1.135
2-chlorotoluene	1.138	1.138	1.138	1.137	1.138	1.138	1.138	1.138	1.138	1.138
4-Ethyltoluene	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144	1.144
1,3,5-Trimethylbenzene	1.149	1.149	1.149	1.148	1.149	1.149	1.149	1.149	1.149	1.149
Alpha-Methylstyrene	1.163	1.163	1.163	1.163	1.163	1.163	1.163	1.163	1.163	1.163
Decane	1.167	1.167	1.167	1.167	1.167	1.167	1.168	1.167	1.167	1.167
tert-butylbenzene	NA	1.175	1.175	1.175	1.175	1.175	1.176	1.175	1.176	1.175
1,2,4-Trimethylbenzene	1.176	1.176	1.176	1.176	1.176	1.176	1.176	1.176	1.176	1.176
sec-butylbenzene	1.192	1.192	1.192	1.192	1.192	1.192	1.192	1.192	1.192	1.192
1,3-Dichlorobenzene	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193	1.193
Benzyl Chloride	1.197	1.197	1.197	1.197	1.197	1.197	1.198	1.197	1.198	1.197
1,4-Dichlorobenzene	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.198	1.199	1.198
p-Cymene	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202	1.202
~ 1,2,3- Trimethylbenzene	1.206	1.205	1.206	1.205	1.205	1.206	1.206	1.206	1.206	1.206
~ n-butylcyclohexane	1.209	1.209	1.209	1.209	1.209	1.209	1.209	1.209	1.209	1.209
~ Indane	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.221
1,2-Dichlorobenzene	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.221	1.221
n-butylbenzene	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229
~ Indene	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229	1.229
Undecane	NA	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249	1.249
~ 1,2-dimethyl-4-ethylenzene	1.253	1.253	1.252	1.252	1.252	1.252	1.253	1.252	1.252	1.252
~ 1,2,4,5-tetramethylbenzene	1.277	1.276	1.277	1.277	1.276	1.277	1.277	1.276	1.277	1.277
~ 1,2,3,5-tetramethylbenzene	1.280	1.280	1.280	1.280	1.280	1.280	1.280	1.280	1.280	1.280

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

INITIAL CALIBRATION RT and RRT REPORT

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COMPOUND	STD 1	STD 2	STD 3	STD 4	STD 5	STD 6	STD 7	STD 8	STD 9	MEAN
~ 1,2,3,4-tetramethylbenzene	1.306	1.306	1.306	1.306	1.306	1.306	1.306	1.306	1.306	1.306
Dodecane	NA	NA	1.316	1.316	1.316	1.316	1.316	NA	NA	1.316
1,2,4-Trichlorobenzene	1.328	1.329	1.329	1.328	1.328	1.328	1.329	NA	NA	1.328
Napthalene	1.338	1.338	1.338	1.338	1.338	1.338	1.338	1.338	NA	1.338
~ benzo(b) thiophene	NA	1.344	1.344	1.344	1.344	1.344	1.345	1.344	1.344	1.344
Hexachlorobutadiene	1.352	1.352	1.352	1.352	1.352	1.352	1.352	1.352	1.352	1.352
1,2,3-trichlorobenzene	NA	1.356	1.356	1.356	1.356	1.356	1.356	1.356	NA	1.356

Evaluation Criteria
Internal Standard RT shift within 20 seconds of mean RT
Target compound RRT within 0.06 RRT of the RRT mean
Note: IS data is RT, SS and Target Compound Data is RRT.

Report Date : 25-May-2012 12:24

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAY-2012 13:43
End Cal Date : 24-MAY-2012 21:04
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Cal Date : 25-May-2012 12:19 tajh

Calibration File Names:
Level 1: /var/chem/gcms/mj.i/J052412I.b/jice241.d
Level 2: /var/chem/gcms/mj.i/J052412I.b/jice242.d
Level 3: /var/chem/gcms/mj.i/J052412I.b/jice243.d
Level 4: /var/chem/gcms/mj.i/J052412I.b/jice244.d
Level 5: /var/chem/gcms/mj.i/J052412I.b/jice245.d
Level 6: /var/chem/gcms/mj.i/J052412I.b/jice246.d
Level 7: /var/chem/gcms/mj.i/J052412I.b/jice247.d
Level 8: /var/chem/gcms/mj.i/J052412I.b/jice248.d
Level 9: /var/chem/gcms/mj.i/J052412I.b/jice249.d

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
5 Chlorodifluoromethane	+++++	0.64037	0.66765	0.64823	0.63772	0.57915					
	0.57149	0.54601	0.52798				AVRG		0.60232		8.70916
6 Propene	+++++	+++++	1.37668	1.36349	1.12852	1.12007					
	1.06722	1.02634	0.98239				AVRG		1.15210		13.65632
7 Dichlorodifluoromethane	5.79065	6.01638	5.87989	6.11700	5.64572	5.46958					
	5.37115	5.05560	4.61203				AVRG		5.55089		8.72748

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Start Cal Date : 24-MAY-2012 13:43
End Cal Date : 24-MAY-2012 21:04
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Cal Date : 25-May-2012 12:19 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	4 Level 7	8 Level 8	16 Level 9									
8 Chloromethane	+++++	+++++	0.39269	0.44137	0.41498	0.39785						
	0.39162	0.37289	0.36914				AVRG		0.39722		6.24916	
9 1,2-Dichlorotetrafluoroethane	3.94051	4.03296	3.67198	3.87414	3.59302	3.53392						
	3.50752	3.39207	3.29189				AVRG		3.64867		6.94409	
10 Methanol	+++++	+++++	+++++	+++++	4.93222	4.88425						
	4.45132	4.26387	3.87782				AVRG		4.48190		9.84042	
11 ~ acetaldehyde	+++++	+++++	1.03147	0.69344	0.22152	0.29310						
	0.13974	0.10345	0.11006				AVRG		0.37040		96.19716	<-
12 Vinyl Chloride	1.84522	1.82270	1.52147	1.61049	1.48447	1.44559						
	1.41997	1.38105	1.36292				AVRG		1.54376		11.70682	
13 n-Butane	+++++	+++++	2.05062	2.03231	1.86114	1.74692						
	1.72510	1.67999	1.62539				AVRG		1.81735		9.30897	
14 1,3-Butadiene	+++++	1.22570	1.14956	1.05519	1.01849	0.97390						
	0.95587	0.93643	0.92777				AVRG		1.03036		10.45319	

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Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
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Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
15 Bromomethane	+++++	2.03691	1.73099	1.88723	1.65819	1.57092					
	1.60191	1.55295	1.54144				AVRG		1.69757		10.54424
16 Chloroethane	+++++	0.79418	0.68362	0.73491	0.67276	0.64953					
	0.64821	0.62998	0.61472				AVRG		0.67849		8.77311
17 ~ ethanol	+++++	+++++	0.43737	0.41642	0.36397	0.38204					
	0.32926	0.33130	0.30286				AVRG		0.36618		13.39614
18 Vinyl Bromide	1.23380	1.26466	1.22227	1.25673	1.15915	1.15569					
	1.16426	1.15082	1.15537				AVRG		1.19586		3.98891
19 2-methyl butane	1.94664	1.63172	1.42041	1.42366	1.35776	1.30393					
	1.27354	1.24809	1.22782				AVRG		1.42595		16.20467
20 Trichlorofluoromethane	5.56006	5.67815	5.52159	5.67551	5.25975	5.12446					
	5.05385	4.84730	4.60677				AVRG		5.25860		7.25324
21 Acrolein	+++++	+++++	0.47680	0.29421	0.34779	0.35210					
	0.31164	0.34508	0.35092				AVRG		0.35408		16.53987

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Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	4 Level 7	8 Level 8	16 Level 9									
22 Acetonitrile	+++++	+++++	+++++	0.37852	0.42344	0.39451						
	0.39611	0.38712	0.38834				AVRG		0.39467		3.90488	
23 Acetone	+++++	+++++	+++++	+++++	0.66137	0.81021						
	0.49452	0.40755	0.42189				AVRG		0.55911		30.91182	<-
24 Isopropyl alcohol	+++++	+++++	1.64032	1.88320	1.45273	1.52718						
	1.34354	1.44809	1.31449				AVRG		1.51565		12.90035	
25 Pentane	+++++	+++++	0.18699	0.17347	0.17122	0.17052						
	0.16685	0.17157	0.17098				AVRG		0.17309		3.72194	
26 Ethyl Ether	+++++	0.92499	0.93551	0.92590	1.03869	1.06740						
	1.04099	1.04823	1.03585				AVRG		1.00220		6.14707	
27 1,1-Dichloroethene	1.08156	1.12884	1.06176	1.09125	0.98867	1.02441						
	1.02303	1.01391	1.00984				AVRG		1.04703		4.40694	
28 tert-butanol	+++++	+++++	2.18449	2.20355	2.01921	2.15401						
	1.97063	2.07195	1.94444				AVRG		2.07832		5.03640	

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Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
29 Acrylonitrile	0.55903	0.56734	0.57921	0.57699	0.69258	0.70991					
	0.66525	0.70426	0.71520				AVRG		0.64109		10.68903
30 1,1,2-Trichlorotrifluoroethan	2.66641	2.71219	2.63388	2.75910	2.59179	2.52885					
	2.51559	2.50540	2.46832				AVRG		2.59795		3.89615
31 Methylene Chloride	+++++	+++++	1.27310	1.10098	1.01411	0.94414					
	0.91494	0.92412	0.90706				AVRG		1.01121		13.31971
32 3-Chloropropene	+++++	1.61338	0.97167	1.42685	1.33394	1.33473					
	0.94323	1.23396	1.17037				AVRG		1.25352		17.98100
33 Carbon Disulfide	4.46349	4.41325	3.54122	3.56560	3.28082	3.29532					
	3.22335	3.20739	3.11218				AVRG		3.56696		14.46763
34 trans-1,2-Dichloroethene	1.26873	1.33602	1.25778	1.33965	1.24300	1.22397					
	1.22427	1.22991	1.24257				AVRG		1.26288		3.56356
35 ~ 2-Methyl Pentane	3.13320	2.93188	2.72496	2.72974	2.59159	2.50817					
	2.48624	2.45669	2.37087				AVRG		2.65926		9.30445

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Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
36 Methyl-t-Butyl Ether	2.77925	2.74126	2.54173	2.61147	3.18922	3.21893					
	3.10584	3.19652	3.14810				AVRG		2.94804		9.34998
37 1,1-Dichloroethane	2.51372	2.48154	2.34330	2.45415	2.38924	2.32887					
	2.29555	2.27318	2.21056				AVRG		2.36557		4.30877
38 Vinyl Acetate	+++++	1.97889	1.93870	1.97404	2.43529	2.61490					
	2.53438	2.67097	2.63745				AVRG		2.34808		13.89645
39 2-Butanone	+++++	+++++	0.49499	0.50743	0.39686	0.43281					
	0.38215	0.40749	0.41728				AVRG		0.43414		11.19140
40 Hexane	+++++	1.12932	1.07508	1.07113	0.99844	0.98215					
	0.95577	0.95388	0.94186				AVRG		1.01345		6.85197
41 cis 1,2-Dichloroethene	1.21410	1.15743	1.20566	1.23244	1.16996	1.16530					
	1.15106	1.14328	1.13844				AVRG		1.17530		2.87150
42 Ethyl acetate	+++++	1.85678	1.64419	1.78168	2.06469	2.20009					
	2.07615	2.22724	2.22509				AVRG		2.00949		11.06976

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Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
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Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
43 Chloroform	3.48380	3.41428	3.30893	3.31525	3.24935	3.20277					
	3.07171	3.00401	2.92436				AVRG		3.21938		5.82679
44 Tetrahydrofuran	+++++	0.83671	0.77077	0.77771	0.96345	1.00183					
	0.93505	0.99111	0.99242				AVRG		0.90863		10.80972
45 1,1,1-Trichloroethane	3.95708	4.10171	3.91989	4.02137	3.91674	3.84603					
	3.75949	3.70482	3.51470				AVRG		3.86020		4.61868
46 1,2-Dichloroethane	0.54861	0.62375	0.62730	0.67818	0.58558	0.59162					
	0.53599	0.54954	0.54400				AVRG		0.58718		8.22076
47 1-Butanol	+++++	+++++	0.09064	0.09473	0.07552	0.08041					
	0.06208	0.07817	0.06997				AVRG		0.07879		14.33714
48 Benzene	0.80104	0.83210	0.83052	0.80097	0.70080	0.70885					
	0.65675	0.70183	0.72369				AVRG		0.75073		8.71508
49 Cyclohexane	0.12426	0.13467	0.13982	0.16517	0.12555	0.13091					
	0.12267	0.12683	0.12885				AVRG		0.13319		9.86856

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Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
50 Carbon Tetrachloride	0.89150	1.07513	0.34154	1.06467	0.81009	0.90078					
	0.65332	0.72083	0.79217				AVRG		0.80556		27.83178
51 ~ 2,3-dimethylpentane	+++++	0.16161	0.16054	0.18054	0.14663	0.15028					
	0.13978	0.14057	0.14498				AVRG		0.15312		9.00512
52 ~ Thiophene	0.37820	0.44638	0.45439	0.48152	0.40335	0.40873					
	0.38142	0.38703	0.40167				AVRG		0.41586		8.74110
53 2,2,4-trimethylpentane	1.26952	1.32984	1.34358	1.43075	1.18788	1.21465					
	1.11105	1.12111	1.13187				AVRG		1.23781		9.11442
54 Heptane	0.25713	0.29065	0.27454	0.29000	0.23483	0.23328					
	0.21893	0.22755	0.24017				AVRG		0.25190		10.82506
55 1,2-Dichloropropane	+++++	0.26334	0.26757	0.28890	0.24534	0.25450					
	0.23180	0.24768	0.26268				AVRG		0.25773		6.65929
56 Trichloroethene	0.38736	0.45765	0.45567	0.47432	0.39138	0.39594					
	0.37361	0.37924	0.40055				AVRG		0.41286		9.31705

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Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
180 ~ 2-nitropropane	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++	+++++	+++++				AVRG		0.000e+00		0.000e+00
57 Dibromomethane	0.35414	0.42905	0.43691	0.48691	0.39927	0.40685					
	0.37287	0.38235	0.39167				AVRG		0.40667		9.76928
58 Bromodichloromethane	0.71166	0.81939	0.82509	0.94821	0.77350	0.79906					
	0.73787	0.76036	0.76905				AVRG		0.79380		8.62743
59 1,4-dioxane	+++++	+++++	0.08781	0.10473	0.08518	0.09465					
	0.08058	0.09432	0.09519				AVRG		0.09178		8.65793
60 Methyl Methacrylate	+++++	0.25291	0.23816	0.27672	0.29746	0.32400					
	0.29540	0.33065	0.34298				AVRG		0.29478		12.66485
61 ~ methyl cyclohexane	0.40798	0.47917	0.47761	0.52244	0.42871	0.43449					
	0.40686	0.41358	0.41943				AVRG		0.44336		9.10818
62 4-Methyl-2-pentanone	0.40766	0.61414	0.44957	0.51924	0.38215	0.42927					
	0.38579	0.43589	0.45076				AVRG		0.45272		16.15998

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Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
63 cis-1,3-Dichloropropene	0.32019	0.39747	0.42424	0.46569	0.41347	0.42545					
	0.40033	0.42532	0.45361				AVRG		0.41397		10.05653
64 trans-1,3-Dichloropropene	0.44369	0.48976	0.47081	0.54704	0.50827	0.55513					
	0.49732	0.55249	0.56825				AVRG		0.51475		8.38694
65 Toluene	0.80856	0.90612	0.95405	0.96735	0.90649	0.92620					
	0.87640	0.92686	0.95050				AVRG		0.91361		5.29810
66 1,1,2-Trichloroethane	0.26108	0.27549	0.27972	0.30327	0.27073	0.28424					
	0.26670	0.28009	0.29071				AVRG		0.27911		4.58174
67 ~ 2-methyl thiophene	0.65779	0.75142	0.82565	0.84824	0.75809	0.77690					
	0.73687	0.78250	0.80634				AVRG		0.77153		7.23072
68 ~ 3-methyl thiophene	0.72565	0.75236	0.80635	0.84155	0.75486	0.78043					
	0.71687	0.78791	0.81634				AVRG		0.77581		5.40062
69 2-Hexanone	+++++	0.40371	0.21414	0.24880	0.20010	0.21690					
	0.20106	0.22409	0.22440				AVRG		0.24165		27.83227

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Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
70 Octane	0.30897	0.33572	0.32179	0.32811	0.28665	0.28881					
	0.27905	0.29955	0.31412				AVRG		0.30697		6.43926
71 Dibromochloromethane	0.64763	0.74440	0.69421	0.85263	0.77586	0.81936					
	0.75780	0.80914	0.83189				AVRG		0.77032		8.73052
72 1,2-Dibromoethane	0.51728	0.60676	0.58200	0.62910	0.57066	0.59353					
	0.54950	0.58411	0.60775				AVRG		0.58230		5.76160
73 Tetrachloroethene	0.44554	0.49847	0.50094	0.51804	0.42625	0.41756					
	0.40051	0.41811	0.44130				AVRG		0.45186		9.49312
74 Chlorobenzene	0.68759	0.76562	0.79859	0.81009	0.72532	0.73452					
	0.69321	0.73190	0.78260				AVRG		0.74772		5.89203
75 ~ 2,3-dimethylheptane	+++++	1.04797	0.84253	0.90799	0.80447	0.85683					
	0.80237	0.81182	0.79387				AVRG		0.85848		9.94565
76 Ethylbenzene	1.00296	1.08587	1.13220	1.17930	1.18031	1.23365					
	1.15714	1.21723	1.23232				AVRG		1.15789		6.52124

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	Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
		4 Level 7	8 Level 8	16 Level 9								
	77 ~ 2-ethyl thiophene	0.78469	0.89489	0.94685	1.01875	1.00205	1.03364					
		0.96854	1.02424	1.04083				AVRG		0.96827		8.63350
	78 m&p-Xylene	0.78426	0.84555	0.89502	0.94743	0.93919	1.00024					
		0.93266	0.97878	0.97225				AVRG		0.92171		7.52356
	79 Nonane	0.51840	0.57754	0.51279	0.56904	0.53508	0.58957					
		0.56310	0.60425	0.63155				AVRG		0.56681		6.97738
	80 Bromoform	0.49769	0.62485	0.53148	0.74043	0.66934	0.76376					
		0.71764	0.79139	0.88623				AVRG		0.69142		18.02770
	81 Styrene	0.41164	0.45918	0.52749	0.56704	0.61060	0.65255					
		0.61181	0.67822	0.73036				AVRG		0.58321		17.69934
	82 o-Xylene	0.80660	0.89929	0.93411	0.95739	0.96411	1.04071					
		0.95855	0.99165	0.99339				AVRG		0.94953		7.02130
M	83 Xylene (total)	0.79171	0.86346	0.90805	0.95075	0.94750	1.01373					
		0.94129	0.98307	0.97929				AVRG		0.93098		7.31937

Report Date : 25-May-2012 12:24

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAY-2012 13:43
End Cal Date : 24-MAY-2012 21:04
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Cal Date : 25-May-2012 12:19 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
84 1,1,2,2-Tetrachloroethane	0.43690	0.57445	0.54505	0.59209	0.58414	0.64346					
	0.59303	0.62865	0.65230				AVRG		0.58334		11.10701
85 1,2,3-Trichloropropane	+++++	0.20352	0.19548	0.21575	0.21552	0.23079					
	0.20817	0.22006	0.22687				AVRG		0.21452		5.49947
86 Cumene	1.19090	1.20630	1.24926	1.31051	1.35371	1.43878					
	1.33318	1.38071	1.38099				AVRG		1.31604		6.43477
87 n-Propylbenzene	0.23565	0.29746	0.27719	0.30714	0.31615	0.34869					
	0.32638	0.35307	0.38370				AVRG		0.31616		13.93023
88 2-chlorotoluene	0.26580	0.31287	0.31674	0.34383	0.32688	0.34667					
	0.31965	0.34199	0.36485				AVRG		0.32658		8.68109
89 4-Ethyltoluene	0.96922	1.21525	1.09017	1.21969	1.27759	1.37854					
	1.25273	1.33293	1.35228				AVRG		1.23204		10.66938
90 1,3,5-Trimethylbenzene	0.41141	0.47901	0.46058	0.50001	0.54546	0.59974					
	0.54121	0.58746	0.63550				AVRG		0.52893		13.70364

Report Date : 25-May-2012 12:24

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAY-2012 13:43
End Cal Date : 24-MAY-2012 21:04
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Cal Date : 25-May-2012 12:19 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	 m1	 m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
91 Alpha-Methylstyrene	0.29370	0.37126	0.34908	0.39837	0.46913	0.50080					
	0.48039	0.54090	0.57211				AVRG		0.44175		21.16155
92 Decane	0.43544	0.60822	0.46892	0.54600	0.61832	0.67302					
	0.62627	0.67643	0.70192				AVRG		0.59495		15.67765
93 tert-butylbenzene	+++++	1.00207	0.98303	1.04807	1.11481	1.22518					
	1.12915	1.21058	1.25862				AVRG		1.12144		9.31718
94 1,2,4-Trimethylbenzene	0.72459	0.91918	0.89056	1.01875	1.05533	1.15276					
	1.04560	1.12897	1.14498				AVRG		1.00897		14.02143
95 sec-butylbenzene	1.03827	1.24531	1.20735	1.33561	1.41671	1.55130					
	1.42792	1.52151	1.52473				AVRG		1.36319		12.65592
96 1,3-Dichlorobenzene	0.57712	0.71787	0.67914	0.75239	0.70729	0.74591					
	0.71766	0.79309	0.88710				AVRG		0.73084		11.46666
97 Benzyl Chloride	0.61299	0.86630	0.77307	0.91378	0.88999	0.98497					
	0.93392	1.03358	1.07889				AVRG		0.89861		15.64456

Report Date : 25-May-2012 12:24

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAY-2012 13:43
End Cal Date : 24-MAY-2012 21:04
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Cal Date : 25-May-2012 12:19 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
98 1,4-Dichlorobenzene	0.56073	0.77654	0.70452	0.74302	0.68406	0.71852					
	0.67136	0.74330	0.81705				AVRG		0.71323		10.22428
99 p-Cymene	0.79795	1.16590	0.98977	1.16272	1.24342	1.33670					
	1.19804	1.27646	1.26385				AVRG		1.15942		14.43457
100 ~ 1,2,3- Trimethylbenzene	0.61408	0.81855	0.74035	0.82087	0.86353	0.93394					
	0.82670	0.86382	0.86379				AVRG		0.81618		11.24420
101 ~ n-butylcyclohexane	0.53301	0.64202	0.60831	0.68329	0.67358	0.71831					
	0.67585	0.70944	0.73675				AVRG		0.66451		9.46601
102 ~ Indane	0.65024	0.82601	0.74157	0.85246	0.83941	0.90773					
	0.82892	0.90855	0.96772				AVRG		0.83584		11.31983
103 1,2-Dichlorobenzene	0.54889	0.64665	0.62614	0.70570	0.64625	0.70028					
	0.65136	0.71990	0.79266				AVRG		0.67087		10.24185
104 n-butylbenzene	0.75204	1.10716	0.95073	1.09755	1.10231	1.22172					
	1.09464	1.18200	1.19170				AVRG		1.07776		13.48381

Report Date : 25-May-2012 12:24

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAY-2012 13:43
End Cal Date : 24-MAY-2012 21:04
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Cal Date : 25-May-2012 12:19 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
105 ~ Indene	0.38717	0.54220	0.50043	0.56721	0.61081	0.62829					
	0.60932	0.69587	0.75571				AVRG		0.58855		18.30831
106 Undecane	+++++	0.69073	0.45519	0.56765	0.46704	0.64192					
	0.60734	0.69336	0.73324				AVRG		0.60706		17.14295
107 ~ 1,2-dimethyl-4-ethylenzene	0.66844	0.98896	0.79931	0.95332	0.92645	1.06086					
	0.93183	1.01365	1.02127				AVRG		0.92934		13.28686
108 ~ 1,2,4,5-tetramethylbenzene	0.61874	1.04421	0.74873	0.91266	0.80775	1.02004					
	0.89525	0.99615	1.01038				AVRG		0.89488		16.14941
109 ~ 1,2,3,5-tetramethylbenzene	0.51232	0.78086	0.60497	0.68329	0.42266	0.77571					
	0.66956	0.74993	0.75839				AVRG		0.66197		19.07311
110 ~ 1,2,3,4-tetramethylbenzene	0.54423	0.90226	0.61194	0.70104	0.55407	0.78322					
	0.68193	0.76917	0.77616				AVRG		0.70267		16.83861
111 Dodecane	+++++	+++++	0.39480	0.45135	0.27527	0.38213					
	0.34733	+++++	+++++				AVRG		0.37018		17.54175

Report Date : 25-May-2012 12:24

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAY-2012 13:43
End Cal Date : 24-MAY-2012 21:04
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Cal Date : 25-May-2012 12:19 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
112 1,2,4-Trichlorobenzene	0.35668	0.54129	0.36045	0.39453	0.26804	0.43013					
	0.39137	+++++	+++++				AVRG		0.39178		21.19087
113 Napthalene	0.53637	0.95292	0.60240	0.69782	0.47598	0.73788					
	0.66499	0.74265	+++++				AVRG		0.67638		21.67663
114 ~ benzo(b) thiophene	+++++	0.57585	0.36130	0.40132	0.24908	0.38295					
	0.34851	0.38256	0.37942				AVRG		0.38512		23.45172
115 Hexachlorobutadiene	0.44537	0.65883	0.49192	0.52459	0.46852	0.62660					
	0.56572	0.58861	0.61589				AVRG		0.55400		13.57551
116 1,2,3-trichlorobenzene	+++++	13653	16485	39624	79013	237288					
	457326	944014	+++++				QUAD	0.00725	3.56687	0.01194	0.99746
117 ~ 2-Methylnaphthalene	+++++	+++++	0.04286	0.04464	0.04559	0.03986					
	0.03745	0.03853	0.04131				AVRG		0.04146		7.39083
118 ~ 1-Methylnaphthalene	+++++	+++++	0.04660	0.04358	0.04534	0.03631					
	0.03497	0.03442	0.03760				AVRG		0.03983		12.98647

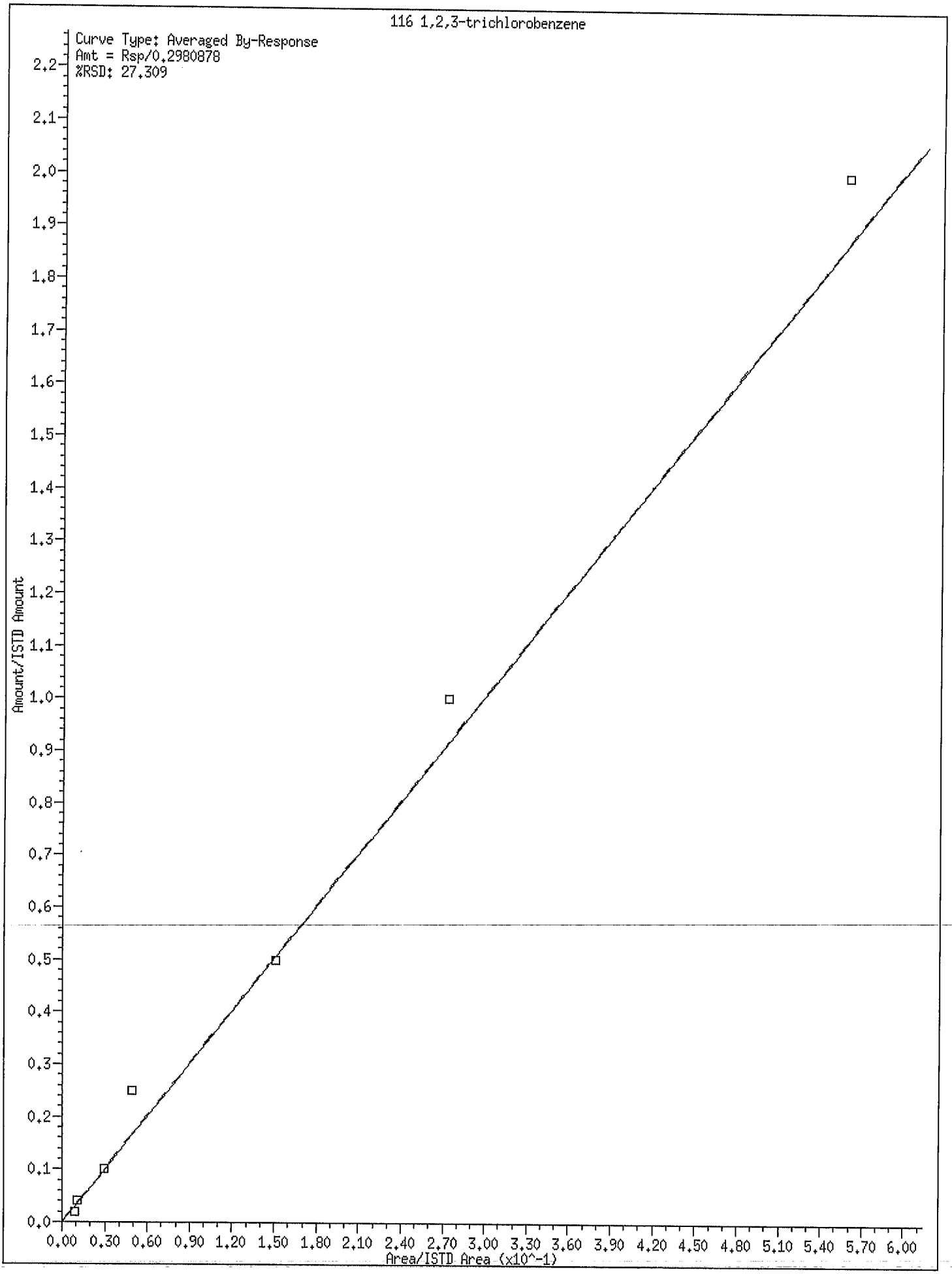
Report Date : 25-May-2012 12:24

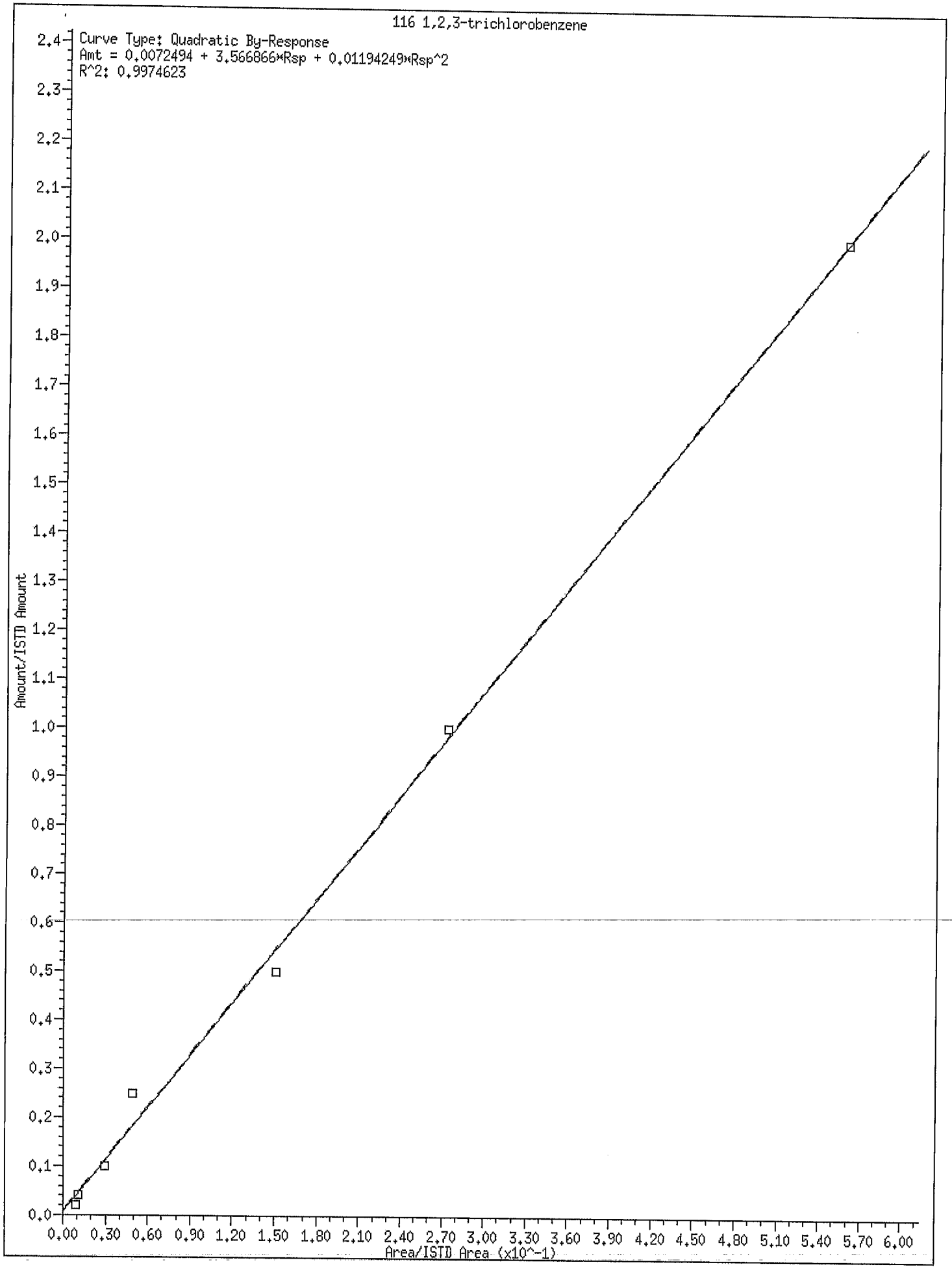
TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAY-2012 13:43
End Cal Date : 24-MAY-2012 21:04
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Cal Date : 25-May-2012 12:19 tajh

Compound	0.0400 Level 1	0.0800 Level 2	0.1600 Level 3	0.4000 Level 4	1 Level 5	2 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	4 Level 7	8 Level 8	16 Level 9								
$ 4 4-Bromofluorobenzene	0.76967	0.78636	0.78953	0.80466	0.79219	0.81334					
	0.78289	0.78384	0.78442				AVRG		0.78966		1.62035


116 1,2,3-trichlorobenzene
Curve Type: Averaged By-Response
Amt = Rsp/0.2980878
%RSD: 27.309
Amount/ISTD Amount
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00
Area/ISTD Area (x10^-1)


116 1,2,3-trichlorobenzene
Curve Type: Quadratic By-Response
Amt = 0.0072494 + 3.566866*Rsp + 0.01194249*Rsp^2
R^2: 0.9974623
Amount/ISTD Amount
2.4
2.3
2.2
2.1
2.0
1.9
1.8
1.7
1.6
1.5
1.4
1.3
1.2
1.1
1.0
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
0.00 0.30 0.60 0.90 1.20 1.50 1.80 2.10 2.40 2.70 3.00 3.30 3.60 3.90 4.20 4.50 4.80 5.10 5.40 5.70 6.00
Area/ISTD Area (x10^-1)

Report Date : 25-May-2012 12:24

TestAmerica Knoxville

INITIAL CALIBRATION DATA

Start Cal Date : 24-MAY-2012 13:43
End Cal Date : 24-MAY-2012 21:04
Quant Method : ISTD
Target Version : 3.50
Integrator : HP RTE
Method file : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Cal Date : 25-May-2012 12:19 tajh

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

Data File: /var/chem/gcms/mj.i/J052412I.b/jice241.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J052412I.b/jice241.d
Lab Smp Id: ICAL1 Client Smp ID: STD 0.04
Inj Date : 24-MAY-2012 13:43
Operator : 7126 Inst ID: mj.i
Smp Info : ICAL1,,1,1,,STD 0.04
Misc Info : J052412I,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Meth Date : 25-May-2012 12:36 tajh Quant Type: ISTD
Cal Date : 24-MAY-2012 13:43 Cal File: jice241.d
Als bottle: 1 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allmdl.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
* 1	Bromochloromethane	128	8.989	8.989	(1.000)	446668	4.00000	4.000
* 2	1,4-Difluorobenzene	114	11.173	11.173	(1.000)	2044084	4.00000	4.000
* 3	Chlorobenzene-d5	117	15.896	15.896	(1.000)	1781429	4.00000	4.000
$ 4	4-Bromofluorobenzene	95	17.537	17.537	(1.103)	1371117	4.00000	3.899
5	Chlorodifluoromethane	67	3.836	3.836	(0.427)	2897	0.04000	0.04307
6	Propene	41	3.846	3.846	(0.428)	17659	0.04000	0.1373
7	Dichlorodifluoromethane	85	3.905	3.905	(0.434)	25865	0.04000	0.04173
8	Chloromethane	52	4.078	4.078	(0.454)	3414	0.04000	0.07697
9	1,2-Dichlorotetrafluoroethane	135	4.088	4.088	(0.455)	17601	0.04000	0.04320
10	Methanol	31	4.212	4.212	(0.469)	29319	0.04000	0.05858
11	~ acetaldehyde	44	4.234	4.234	(0.471)	100645	0.20240	2.433
12	Vinyl Chloride	62	4.255	4.255	(0.473)	8242	0.04000	0.04781
13	n-Butane	43	4.341	4.341	(0.483)	10152	0.04000	0.05002
14	1,3-Butadiene	54	4.347	4.347	(0.484)	6579	0.04000	0.05718
15	Bromomethane	94	4.675	4.675	(0.520)	12970	0.04000	0.06842
16	Chloroethane	64	4.809	4.809	(0.535)	3694	0.04000	0.04876

Data File: /var/chem/gcms/mj.i/J052412I.b/jice241.d
Report Date: 25-May-2012 12:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 ~ ethanol	31	4.895	4.895	(0.545)	16554	0.20880	0.4048
18 Vinyl Bromide	106	5.110	5.110	(0.569)	5511	0.04000	0.04127
19 2-methyl butane	43	5.180	5.180	(0.576)	8695	0.04000	0.05460
20 Trichlorofluoromethane	101	5.390	5.390	(0.600)	24835	0.04000	0.04229
21 Acrolein	56	5.390	5.390	(0.600)	3711	0.04000	0.09386
23 Acetone	58	5.509	5.509	(0.613)	64647	0.04000	1.035
24 Isopropyl alcohol	45	5.578	5.578	(0.621)	18765	0.04000	0.1109
25 Pentane	72	5.605	5.605	(0.624)	587	0.04000	0.03037
26 Ethyl Ether	31	5.788	5.788	(0.644)	4313	0.04000	0.03854
27 1,1-Dichloroethene	96	6.100	6.100	(0.679)	4831	0.04000	0.04132
28 tert-butanol	59	6.186	6.186	(0.688)	16296	0.04000	0.07022
29 Acrylonitrile	53	6.192	6.192	(0.689)	2497	0.04000	0.03488
30 1,1,2-Trichlorotrifluoroethane	101	6.283	6.283	(0.699)	11910	0.04000	0.04105
31 Methylene Chloride	84	6.445	6.445	(0.717)	10129	0.04000	0.08970
32 3-Chloropropene	39	6.461	6.461	(0.719)	8184	0.04000	0.05847
33 Carbon Disulfide	76	6.617	6.617	(0.736)	19937	0.04000	0.05005
34 trans-1,2-Dichloroethene	96	7.257	7.257	(0.807)	5667	0.04000	0.04018
35 ~ 2-Methyl Pentane	43	7.289	7.289	(0.811)	13995	0.04000	0.04713
36 Methyl-t-Butyl Ether	73	7.402	7.402	(0.823)	12414	0.04000	0.03771
37 1,1-Dichloroethane	63	7.671	7.671	(0.853)	11228	0.04000	0.04250
38 Vinyl Acetate	43	7.779	7.779	(0.865)	9803	0.04000	0.03739
39 2-Butanone	72	8.220	8.220	(0.914)	7135	0.04000	0.1472
40 Hexane	56	8.279	8.279	(0.921)	4730	0.04000	0.04180
41 cis 1,2-Dichloroethene	96	8.656	8.656	(0.963)	5423	0.04000	0.04132
42 Ethyl acetate	43	8.844	8.844	(0.984)	7207	0.04000	0.03212
43 Chloroform	83	9.000	9.000	(1.001)	15561	0.04000	0.04328
44 Tetrahydrofuran	42	9.425	9.425	(1.048)	3637	0.04000	0.03584
45 1,1,1-Trichloroethane	97	10.049	10.049	(1.118)	17675	0.04000	0.04100
46 1,2-Dichloroethane	62	10.135	10.135	(0.907)	11214	0.04000	0.03737
47 1-Butanol	31	10.576	10.576	(0.947)	1575	0.04000	0.03912
48 Benzene	78	10.641	10.641	(0.952)	16374	0.04000	0.04268
49 Cyclohexane	69	10.646	10.646	(0.953)	2540	0.04000	0.03732
50 Carbon Tetrachloride	117	10.662	10.662	(0.954)	18223	0.04000	0.04427
51 ~ 2,3-dimethylpentane	71	10.775	10.775	(0.964)	2731	0.04120	0.03490
52 ~ Thiophene	84	10.904	10.904	(0.976)	8040	0.04160	0.03783
53 2,2,4-trimethylpentane	57	11.421	11.421	(1.022)	25950	0.04000	0.04102
54 Heptane	71	11.781	11.781	(1.054)	5256	0.04000	0.04083
55 1,2-Dichloropropane	63	11.840	11.840	(1.060)	4040	0.04000	0.03068
180 ~ 2-nitropropane	43	11.781	11.781	(1.054)	12129	0.04000	0.000
56 Trichloroethene	130	11.883	11.883	(1.064)	7918	0.04000	0.03753
57 Dibromomethane	93	11.959	11.959	(1.070)	7239	0.04000	0.03483
58 Bromodichloromethane	83	12.109	12.109	(1.084)	14547	0.04000	0.03586
59 1,4-dioxane	88	12.120	12.120	(1.085)	1339	0.04000	0.02855
60 Methyl Methacrylate	41	12.195	12.195	(1.091)	3585	0.04000	0.02380
61 ~ methyl cyclohexane	83	12.669	12.669	(1.134)	8673	0.04160	0.03828
62 4-Methyl-2-pentanone	43	13.051	13.051	(1.168)	8333	0.04000	0.03602
63 cis-1,3-Dichloropropene	75	13.099	13.099	(1.172)	6545	0.04000	0.03094

Data File: /var/chem/gcms/mj.i/J052412I.b/jice241.d
Report Date: 25-May-2012 12:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
	64 trans-1,3-Dichloropropene	75	13.793	13.793	(0.868)	7904	0.04000	0.03448
	65 Toluene	91	13.927	13.927	(0.876)	14404	0.04000	0.03540
	66 1,1,2-Trichloroethane	83	13.997	13.997	(0.881)	4651	0.04000	0.03742
	67 ~ 2-methyl thiophene	97	14.083	14.083	(0.886)	12304	0.04200	0.03581
	68 ~ 3-methyl thiophene	97	14.288	14.288	(0.899)	13444	0.04160	0.03891
	69 2-Hexanone	58	14.379	14.379	(0.905)	4789	0.04000	0.04450
	70 Octane	85	14.627	14.627	(0.920)	5504	0.04000	0.04026
	71 Dibromochloromethane	129	14.697	14.697	(0.925)	11537	0.04000	0.03363
	72 1,2-Dibromoethane	107	14.987	14.987	(0.943)	9215	0.04000	0.03553
	73 Tetrachloroethene	129	15.079	15.079	(0.949)	7937	0.04000	0.03944
	74 Chlorobenzene	112	15.945	15.945	(1.003)	12249	0.04000	0.03678
	75 ~ 2,3-dimethylheptane	43	15.982	15.982	(1.005)	15432	0.04160	0.04036
	76 Ethylbenzene	91	16.241	16.241	(1.022)	17867	0.04000	0.03465
	77 ~ 2-ethyl thiophene	97	16.332	16.332	(1.027)	14398	0.04120	0.03339
	78 m&p-Xylene	91	16.397	16.397	(1.031)	27942	0.08000	0.06807
	79 Nonane	57	16.822	16.822	(1.058)	9235	0.04000	0.03658
	80 Bromoform	173	16.832	16.832	(1.059)	8866	0.04000	0.02879
	81 Styrene	104	16.859	16.859	(1.061)	7333	0.04000	0.02823
	82 o-Xylene	91	16.924	16.924	(1.065)	14369	0.04000	0.03398
M	83 Xylene (total)	100				42311	0.12000	0.1020
	84 1,1,2,2-Tetrachloroethane	83	17.236	17.236	(1.084)	7783	0.04000	0.02996
	85 1,2,3-Trichloropropane	110	17.397	17.397	(1.094)	2872	0.04000	0.03006
	86 Cumene	105	17.510	17.510	(1.102)	21215	0.04000	0.03620
	87 n-Propylbenzene	120	18.037	18.037	(1.135)	4198	0.04000	0.02981
	88 2-chlorotoluene	126	18.086	18.086	(1.138)	4735	0.04000	0.03255
	89 4-Ethyltoluene	105	18.188	18.188	(1.144)	17266	0.04000	0.03147
	90 1,3,5-Trimethylbenzene	120	18.263	18.263	(1.149)	7329	0.04000	0.03111
	91 Alpha-Methylstyrene	118	18.489	18.489	(1.163)	5232	0.04000	0.02659
	92 Decane	57	18.554	18.554	(1.167)	7757	0.04000	0.02928
	93 tert-butylbenzene	119	18.683	18.683	(1.175)	15617	0.04000	0.03127
	94 1,2,4-Trimethylbenzene	105	18.699	18.699	(1.176)	12908	0.04000	0.02872
	95 sec-butylbenzene	105	18.952	18.952	(1.192)	18496	0.04000	0.03046
	96 1,3-Dichlorobenzene	146	18.963	18.963	(1.193)	10281	0.04000	0.03159
	97 Benzyl Chloride	91	19.032	19.032	(1.197)	10920	0.04000	0.02729
	98 1,4-Dichlorobenzene	146	19.049	19.049	(1.198)	9989	0.04000	0.03145
	99 p-Cymene	119	19.113	19.113	(1.202)	14215	0.04000	0.02753
	100 ~ 1,2,3- Trimethylbenzene	105	19.167	19.167	(1.206)	11377	0.04160	0.03130
	101 ~ n-butylcyclohexane	83	19.226	19.226	(1.209)	9780	0.04120	0.03305
	102 ~ Indane	117	19.404	19.404	(1.221)	11931	0.04120	0.03205
	103 1,2-Dichlorobenzene	146	19.404	19.404	(1.221)	9778	0.04000	0.03273
	104 n-butylbenzene	91	19.544	19.544	(1.229)	13397	0.04000	0.02791
	105 ~ Indene	116	19.538	19.538	(1.229)	7242	0.04200	0.02763
	106 Undecane	57	19.856	19.856	(1.249)	6727	0.04000	0.02488
	107 ~ 1,2-dimethyl-4-ethylenzene	119	19.915	19.915	(1.253)	12265	0.04120	0.02963
	108 ~ 1,2,4,5-tetramethylbenzene	119	20.297	20.297	(1.277)	11353	0.04120	0.02849
	109 ~ 1,2,3,5-tetramethylbenzene	119	20.350	20.350	(1.280)	9583	0.04200	0.03250
	110 ~ 1,2,3,4-tetramethylbenzene	119	20.754	20.754	(1.306)	9889	0.04080	0.03160

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.926	20.926	(1.316)	7506	0.04000	0.04553
112 1,2,4-Trichlorobenzene	180	21.120	21.120	(1.329)	6354	0.04000	0.03642
113 Napthalene	128	21.265	21.265	(1.338)	9555	0.04000	0.03172
114 ~ benzo(b) thiophene	134	21.378	21.378	(1.345)	7150	0.04080	0.04169
115 Hexachlorobutadiene	225	21.491	21.491	(1.352)	7934	0.04000	0.03216
116 1,2,3-trichlorobenzene	180	21.555	21.555	(1.356)	4484	0.04000	0.06491
117 ~ 2-Methylnaphthalene	142	22.271	22.271	(1.401)	6834	0.25000	0.3701
118 ~ 1-Methylnaphthalene	142	22.411	22.411	(1.410)	5592	0.25000	0.3152

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TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

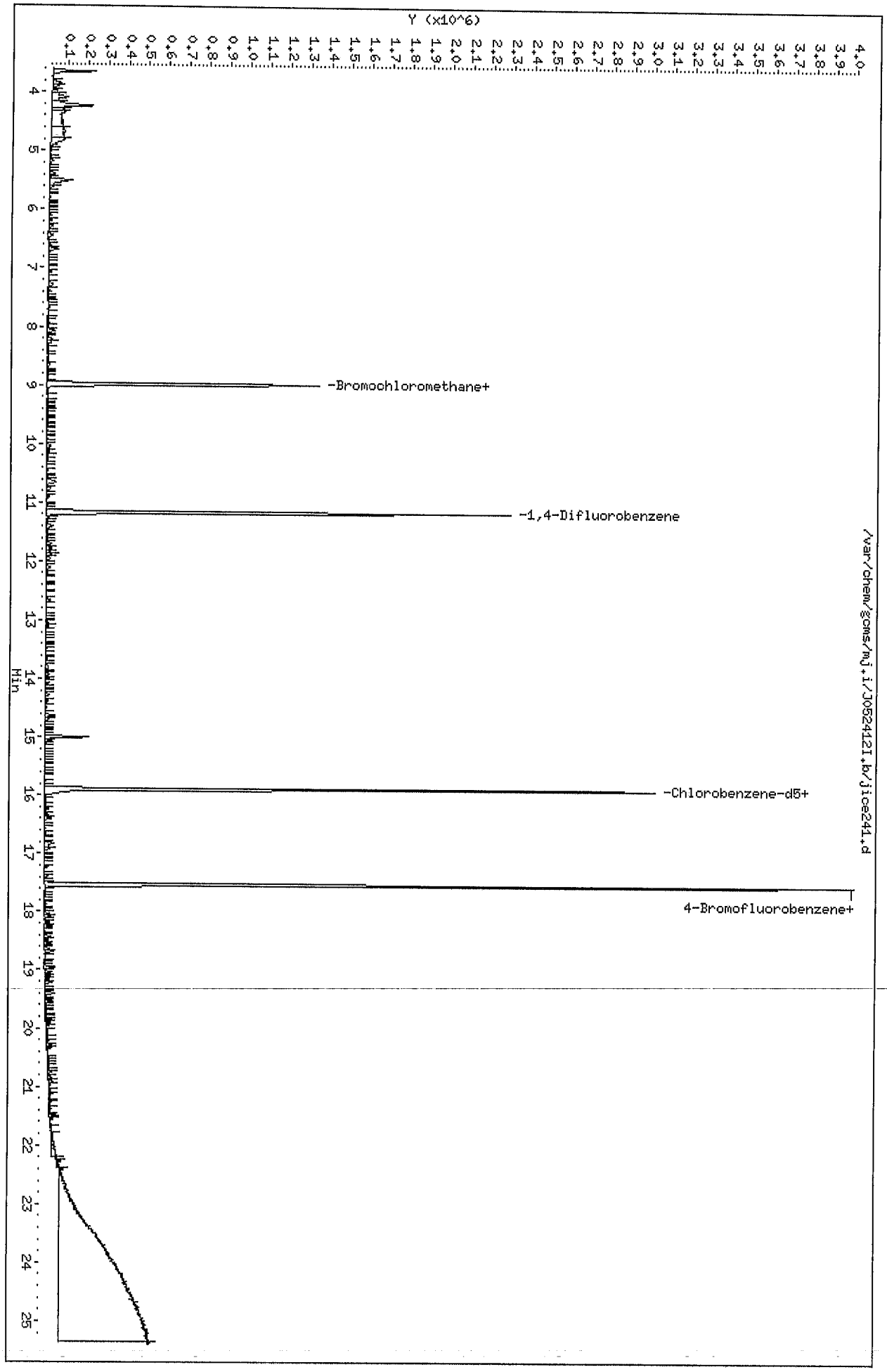
Instrument ID: mj.i
Lab File ID: jice241.d
Lab Smp Id: ICAL1
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Calibration Date: 24-MAY-2012
Calibration Time: 18:13
Client Smp ID: STD 0.04
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	427058	254100	600016	446668	4.59
2 1,4-Difluorobenze	1783321	1061076	2505566	2044084	14.62
3 Chlorobenzene-d5	1569169	933656	2204682	1781429	13.53

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.99	0.00
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.05
3 Chlorobenzene-d5	15.90	15.57	16.23	15.90	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /var/chem/gcms/mj.i/J0524121.b/jice241.d
Date : 24-MAY-2012 13:43
Client ID: STD 0.04
Sample Info: ICAL1,1,1,STD 0.04
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5+
4-Bromofluorobenzene+
/var/chem/gcms/mj.i/J0524121.b/jice241.d
Min

Data File: /var/chem/gcms/mj.i/J052412I.b/jice242.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J052412I.b/jice242.d
Lab Smp Id: ICAL2 Client Smp ID: STD 0.08
Inj Date : 24-MAY-2012 14:37
Operator : 7126 Inst ID: mj.i
Smp Info : ICAL2,,1,2,,STD 0.08
Misc Info : J052412I,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Meth Date : 25-May-2012 12:36 tajh Quant Type: ISTD
Cal Date : 24-MAY-2012 14:37 Cal File: jice242.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allmdl.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.984	8.989	(1.000)	419679	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.168	11.173	(1.000)	1664036	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.897	15.896	(1.000)	1470110	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.532	17.537	(1.103)	1156042	4.00000	3.983
	5 Chlorodifluoromethane	67	3.831	3.836	(0.426)	5375	0.08000	0.08506
	6 Propene	41	3.847	3.846	(0.428)	31124	0.08000	0.2575
	7 Dichlorodifluoromethane	85	3.901	3.905	(0.434)	50499	0.08000	0.08671
	8 Chloromethane	52	4.089	4.078	(0.455)	3983	0.08000	0.09559
	9 1,2-Dichlorotetrafluoroethane	135	4.089	4.088	(0.455)	33851	0.08000	0.08843
	10 Methanol	31	4.202	4.212	(0.468)	52766	0.08000	0.1122
	11 ~ acetaldehyde	44	4.229	4.234	(0.471)	179198	0.40480	4.611
	12 Vinyl Chloride	62	4.256	4.255	(0.474)	15299	0.08000	0.09446
	13 n-Butane	43	4.342	4.341	(0.483)	20523	0.08000	0.1076
	14 1,3-Butadiene	54	4.342	4.347	(0.483)	10288	0.08000	0.09517
	15 Bromomethane	94	4.665	4.675	(0.519)	17097	0.08000	0.09599
	16 Chloroethane	64	4.810	4.809	(0.535)	6666	0.08000	0.09365

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 ~ ethanol	31	4.891	4.895	(0.544)	29972	0.41760	0.7801
18 Vinyl Bromide	106	5.117	5.110	(0.569)	10615	0.08000	0.08460
19 2-methyl butane	43	5.170	5.180	(0.575)	13696	0.08000	0.09155
20 Trichlorofluoromethane	101	5.391	5.390	(0.600)	47660	0.08000	0.08638
21 Acrolein	56	5.380	5.390	(0.599)	5082	0.08000	0.1368
22 Acetonitrile	40	5.445	5.452	(0.606)	5523	0.08000	0.1334
23 Acetone	58	5.499	5.509	(0.612)	112800	0.08000	1.923
24 Isopropyl alcohol	45	5.579	5.578	(0.621)	42593	0.08000	0.2678
25 Pentane	72	5.606	5.605	(0.624)	923	0.08000	0.05084
26 Ethyl Ether	31	5.773	5.788	(0.643)	7764	0.08000	0.07384
27 1,1-Dichloroethene	96	6.090	6.100	(0.678)	9475	0.08000	0.08626
28 tert-butanol	59	6.171	6.186	(0.687)	36492	0.08000	0.1674
29 Acrylonitrile	53	6.176	6.192	(0.687)	4762	0.08000	0.07081
30 1,1,2-Trichlorotrifluoroethane	101	6.279	6.283	(0.699)	22765	0.08000	0.08352
31 Methylene Chloride	84	6.440	6.445	(0.717)	14390	0.08000	0.1356
32 3-Chloropropene	39	6.456	6.461	(0.719)	13542	0.08000	0.1030
33 Carbon Disulfide	76	6.607	6.617	(0.735)	37043	0.08000	0.09898
34 trans-1,2-Dichloroethene	96	7.252	7.257	(0.807)	11214	0.08000	0.08464
35 ~ 2-Methyl Pentane	43	7.290	7.289	(0.811)	24609	0.08000	0.08820
36 Methyl-t-Butyl Ether	73	7.392	7.402	(0.823)	23009	0.08000	0.07439
37 1,1-Dichloroethane	63	7.672	7.671	(0.854)	20829	0.08000	0.08392
38 Vinyl Acetate	43	7.769	7.779	(0.865)	16610	0.08000	0.06742
39 2-Butanone	72	8.204	8.220	(0.913)	15363	0.08000	0.3373
40 Hexane	56	8.269	8.279	(0.920)	9479	0.08000	0.08915
41 cis 1,2-Dichloroethene	96	8.656	8.656	(0.963)	9715	0.08000	0.07879
42 Ethyl acetate	43	8.839	8.844	(0.984)	15585	0.08000	0.07392
43 Chloroform	83	9.001	9.000	(1.002)	28658	0.08000	0.08484
44 Tetrahydrofuran	42	9.415	9.425	(1.048)	7023	0.08000	0.07367
45 1,1,1-Trichloroethane	97	10.033	10.049	(1.117)	34428	0.08000	0.08501
46 1,2-Dichloroethane	62	10.130	10.135	(0.907)	20759	0.08000	0.08499
47 1-Butanol	31	10.571	10.576	(0.947)	4505	0.08000	0.1375
48 Benzene	78	10.631	10.641	(0.952)	27693	0.08000	0.08864
49 Cyclohexane	69	10.647	10.646	(0.953)	4482	0.08000	0.08089
50 Carbon Tetrachloride	117	10.668	10.662	(0.955)	35781	0.08000	0.1068
51 ~ 2,3-dimethylpentane	71	10.765	10.775	(0.964)	5540	0.08240	0.08697
52 ~ Thiophene	84	10.899	10.904	(0.976)	15450	0.08320	0.08931
53 2,2,4-trimethylpentane	57	11.416	11.421	(1.022)	44258	0.08000	0.08595
54 Heptane	71	11.782	11.781	(1.055)	9673	0.08000	0.09231
55 1,2-Dichloropropane	63	11.841	11.840	(1.060)	8764	0.08000	0.08175
180 ~ 2-nitropropane	43	11.776	11.781	(1.054)	20653	0.08000	0.000
56 Trichloroethene	130	11.879	11.883	(1.064)	15231	0.08000	0.08868
57 Dibromomethane	93	11.954	11.959	(1.070)	14279	0.08000	0.08441
58 Bromodichloromethane	83	12.099	12.109	(1.083)	27270	0.08000	0.08258
59 1,4-dioxane	88	12.121	12.120	(1.085)	3132	0.08000	0.08205
60 Methyl Methacrylate	41	12.201	12.195	(1.092)	8417	0.08000	0.06864
61 ~ methyl cyclohexane	83	12.669	12.669	(1.134)	16585	0.08320	0.08992
62 4-Methyl-2-pentanone	43	13.041	13.051	(1.168)	20439	0.08000	0.1085

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	13.100	13.099	(1.173)	13228	0.08000	0.07681
64	trans-1,3-Dichloropropene	75	13.794	13.793	(0.868)	14400	0.08000	0.07612
65	Toluene	91	13.934	13.927	(0.876)	26642	0.08000	0.07934
66	1,1,2-Trichloroethane	83	13.987	13.997	(0.880)	8100	0.08000	0.07896
67	~ 2-methyl thiophene	97	14.079	14.083	(0.886)	23198	0.08400	0.08181
68	~ 3-methyl thiophene	97	14.278	14.288	(0.898)	23006	0.08320	0.08068
69	2-Hexanone	58	14.380	14.379	(0.905)	11870	0.08000	0.1336
70	Octane	85	14.633	14.627	(0.920)	9871	0.08000	0.08750
71	Dibromochloromethane	129	14.697	14.697	(0.925)	21887	0.08000	0.07731
72	1,2-Dibromoethane	107	14.988	14.987	(0.943)	17840	0.08000	0.08336
73	Tetrachloroethene	129	15.074	15.079	(0.948)	14656	0.08000	0.08826
74	Chlorobenzene	112	15.945	15.945	(1.003)	22511	0.08000	0.08192
75	~ 2,3-dimethylheptane	43	15.972	15.982	(1.005)	32045	0.08320	0.1016
76	Ethylbenzene	91	16.231	16.241	(1.021)	31927	0.08000	0.07502
77	~ 2-ethyl thiophene	97	16.333	16.332	(1.027)	27101	0.08240	0.07615
78	m&p-Xylene	91	16.397	16.397	(1.031)	49722	0.16000	0.1468
79	Nonane	57	16.822	16.822	(1.058)	16981	0.08000	0.08152
80	Bromoform	173	16.833	16.832	(1.059)	18372	0.08000	0.07230
81	Styrene	104	16.860	16.859	(1.061)	13501	0.08000	0.06299
82	o-Xylene	91	16.925	16.924	(1.065)	26441	0.08000	0.07577
M 83	Xylene (total)	100				76163	0.24000	0.2225
84	1,1,2,2-Tetrachloroethane	83	17.231	17.236	(1.084)	16890	0.08000	0.07878
85	1,2,3-Trichloropropane	110	17.398	17.397	(1.094)	5984	0.08000	0.07590
86	Cumene	105	17.506	17.510	(1.101)	35468	0.08000	0.07333
87	n-Propylbenzene	120	18.043	18.037	(1.135)	8746	0.08000	0.07527
88	2-chlorotoluene	126	18.086	18.086	(1.138)	9199	0.08000	0.07664
89	4-Ethyltoluene	105	18.194	18.188	(1.144)	35731	0.08000	0.07891
90	1,3,5-Trimethylbenzene	120	18.264	18.263	(1.149)	14084	0.08000	0.07245
91	Alpha-Methylstyrene	118	18.490	18.489	(1.163)	10916	0.08000	0.06724
92	Decane	57	18.555	18.554	(1.167)	17883	0.08000	0.08179
93	tert-butylbenzene	119	18.684	18.683	(1.175)	29463	0.08000	0.07148
94	1,2,4-Trimethylbenzene	105	18.694	18.699	(1.176)	27026	0.08000	0.07288
95	sec-butylbenzene	105	18.953	18.952	(1.192)	36615	0.08000	0.07308
96	1,3-Dichlorobenzene	146	18.963	18.963	(1.193)	21107	0.08000	0.07858
97	Benzyl Chloride	91	19.033	19.032	(1.197)	25471	0.08000	0.07712
98	1,4-Dichlorobenzene	146	19.049	19.049	(1.198)	22832	0.08000	0.08710
99	p-Cymene	119	19.114	19.113	(1.202)	34280	0.08000	0.08045
100	~ 1,2,3- Trimethylbenzene	105	19.162	19.167	(1.205)	25030	0.08320	0.08344
101	~ n-butylcyclohexane	83	19.227	19.226	(1.209)	19443	0.08240	0.07961
102	~ Indane	117	19.410	19.404	(1.221)	25015	0.08240	0.08143
103	1,2-Dichlorobenzene	146	19.404	19.404	(1.221)	19013	0.08000	0.07711
104	n-butylbenzene	91	19.544	19.544	(1.229)	32553	0.08000	0.08218
105	~ Indene	116	19.539	19.538	(1.229)	16739	0.08400	0.07738
106	Undecane	57	19.856	19.856	(1.249)	20309	0.08000	0.09103
107	~ 1,2-dimethyl-4-ethylenzene	119	19.916	19.915	(1.253)	29950	0.08240	0.08769
108	~ 1,2,4,5-tetramethylbenzene	119	20.292	20.297	(1.276)	31623	0.08240	0.09615
109	~ 1,2,3,5-tetramethylbenzene	119	20.351	20.350	(1.280)	24107	0.08400	0.09909

Data File: /var/chem/gcms/mj.i/J052412I.b/jice242.d
Report Date: 25-May-2012 12:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.755	20.754	(1.306)	27059	0.08160	0.1048
111 Dodecane	57	20.921	20.926	(1.316)	20757	0.08000	0.1410
112 1,2,4-Trichlorobenzene	180	21.126	21.120	(1.329)	15915	0.08000	0.1079
113 Napthalene	128	21.266	21.265	(1.338)	28018	0.08000	0.1088
114 ~ benzo(b) thiophene	134	21.373	21.378	(1.344)	17270	0.08160	0.1220
115 Hexachlorobutadiene	225	21.492	21.491	(1.352)	19371	0.08000	0.09514
116 1,2,3-trichlorobenzene	180	21.556	21.555	(1.356)	13653	0.08000	0.1330
117 ~ 2-Methylnaphthalene	142	22.272	22.271	(1.401)	14378	0.50000	0.9435
118 ~ 1-Methylnaphthalene	142	22.412	22.411	(1.410)	12825	0.50000	0.8760

Data File: /var/chem/gcms/mj.i/J052412I.b/jice242.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jice242.d
Lab Smp Id: ICAL2
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Calibration Date: 24-MAY-2012
Calibration Time: 18:13
Client Smp ID: STD 0.08
Level: LOW
Sample Type: AIR

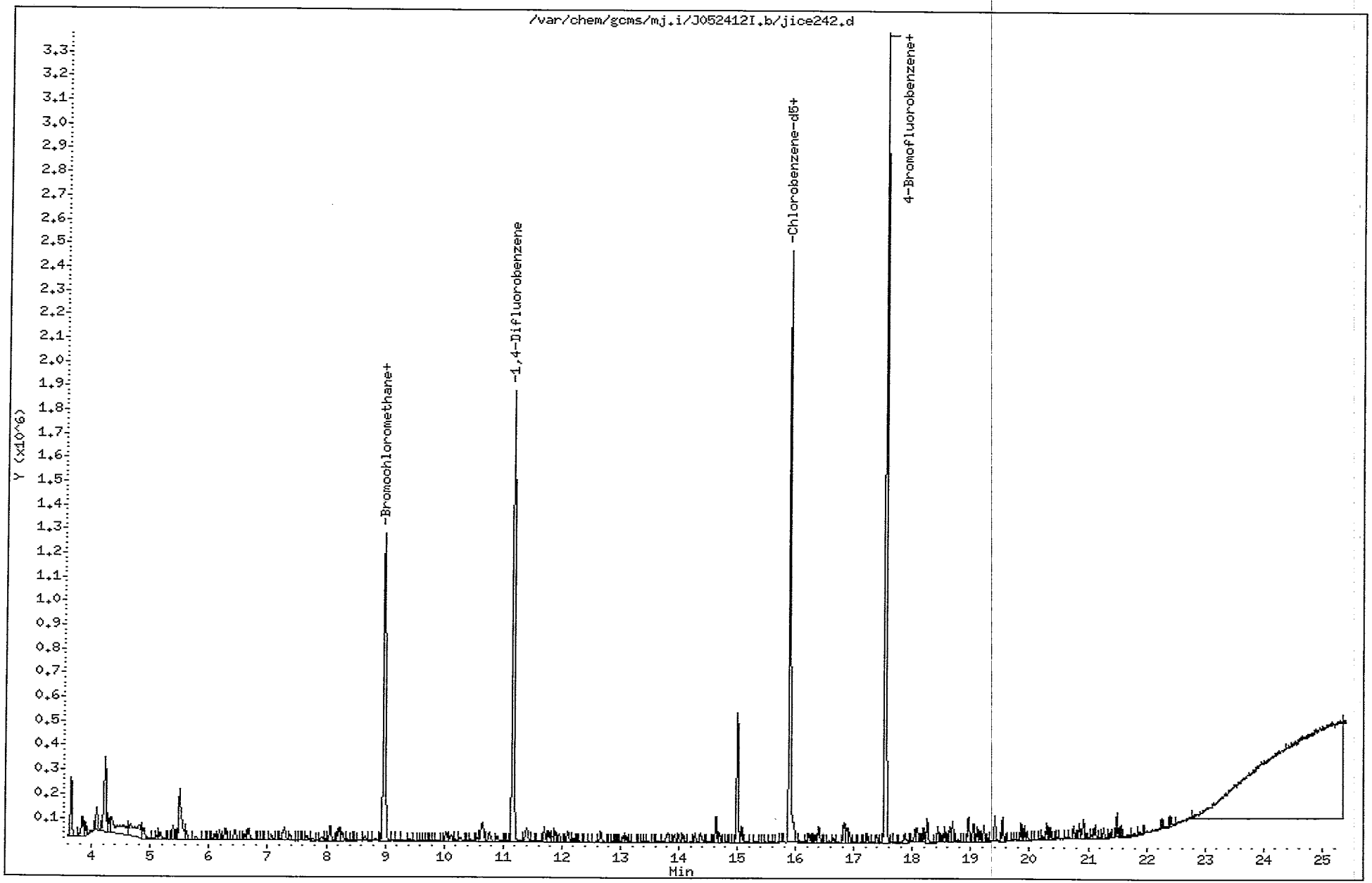
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	427058	254100	600016	419679	-1.73
2 1,4-Difluorobenze	1783321	1061076	2505566	1664036	-6.69
3 Chlorobenzene-d5	1569169	933656	2204682	1470110	-6.31

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.98	-0.05
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.00
3 Chlorobenzene-d5	15.90	15.57	16.23	15.90	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J052412I.b/jice242.d
Date : 24-MAY-2012 14:37
Client ID: STD 0.08
Sample Info: ICAL2,,1,2,,STD 0.08
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J052412I.b/jice243.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J052412I.b/jice243.d
Lab Smp Id: ICAL3 Client Smp ID: STD 0.16
Inj Date : 24-MAY-2012 15:28
Operator : 7126 Inst ID: mj.i
Smp Info : ICAL3,,1,3,,STD 0.16
Misc Info : J052412I,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Meth Date : 25-May-2012 12:36 tajh Quant Type: ISTD
Cal Date : 24-MAY-2012 15:28 Cal File: jice243.d
Als bottle: 2 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: allmdl.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.990	8.989	(1.000)	425969	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.168	11.173	(1.000)	1652672	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.897	15.896	(1.000)	1483022	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.532	17.537	(1.103)	1170891	4.00000	3.999
	5 Chlorodifluoromethane	67	3.842	3.836	(0.427)	11376	0.16000	0.1774
	6 Propene	41	3.852	3.846	(0.429)	23457	0.16000	0.1912
	7 Dichlorodifluoromethane	85	3.906	3.905	(0.434)	100186	0.16000	0.1695
	8 Chloromethane	52	4.084	4.078	(0.454)	6691	0.16000	0.1582
	9 1,2-Dichlorotetrafluoroethane	135	4.094	4.088	(0.455)	62566	0.16000	0.1610
	10 Methanol	31	4.213	4.212	(0.469)	90317	0.16000	0.1892
	11 ~ acetaldehyde	44	4.240	4.234	(0.472)	88929	0.80960	2.254
	12 Vinyl Chloride	62	4.256	4.255	(0.473)	25924	0.16000	0.1577
	13 n-Butane	43	4.353	4.341	(0.484)	34940	0.16000	0.1805
	14 1,3-Butadiene	54	4.347	4.347	(0.484)	19587	0.16000	0.1785
	15 Bromomethane	94	4.670	4.675	(0.519)	29494	0.16000	0.1632
	16 Chloroethane	64	4.810	4.809	(0.535)	11648	0.16000	0.1612

Data File: /var/chem/gcms/mj.i/J052412I.b/jice243.d
Report Date: 25-May-2012 12:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 ~ ethanol	31	4.896	4.895	(0.545)	38901	0.83520	0.9976
18 Vinyl Bromide	106	5.122	5.110	(0.570)	20826	0.16000	0.1635
19 2-methyl butane	43	5.181	5.180	(0.576)	24202	0.16000	0.1594
20 Trichlorofluoromethane	101	5.396	5.390	(0.600)	94081	0.16000	0.1680
21 Acrolein	56	5.391	5.390	(0.600)	8124	0.16000	0.2155
22 Acetonitrile	40	5.455	5.452	(0.607)	7730	0.16000	0.1839
23 Acetone	58	5.515	5.509	(0.613)	39805	0.16000	0.6685
24 Isopropyl alcohol	45	5.585	5.578	(0.621)	27949	0.16000	0.1732
25 Pentane	72	5.617	5.605	(0.625)	3186	0.16000	0.1728
26 Ethyl Ether	31	5.789	5.788	(0.644)	15940	0.16000	0.1494
27 1,1-Dichloroethene	96	6.106	6.100	(0.679)	18091	0.16000	0.1622
28 tert-butanol	59	6.182	6.186	(0.688)	37221	0.16000	0.1682
29 Acrylonitrile	53	6.192	6.192	(0.689)	9869	0.16000	0.1446
30 1,1,2-Trichlorotrifluoroethane	101	6.295	6.283	(0.700)	44878	0.16000	0.1622
31 Methylene Chloride	84	6.445	6.445	(0.717)	21692	0.16000	0.2014
32 3-Chloropropene	39	6.461	6.461	(0.719)	16556	0.16000	0.1240
33 Carbon Disulfide	76	6.617	6.617	(0.736)	60338	0.16000	0.1588
34 trans-1,2-Dichloroethene	96	7.263	7.257	(0.808)	21431	0.16000	0.1594
35 ~ 2-Methyl Pentane	43	7.295	7.289	(0.812)	46430	0.16000	0.1640
36 Methyl-t-Butyl Ether	73	7.392	7.402	(0.822)	43308	0.16000	0.1379
37 1,1-Dichloroethane	63	7.683	7.671	(0.855)	39927	0.16000	0.1585
38 Vinyl Acetate	43	7.779	7.779	(0.865)	33033	0.16000	0.1321
39 2-Butanone	72	8.226	8.220	(0.915)	8434	0.16000	0.1824
40 Hexane	56	8.280	8.279	(0.921)	18318	0.16000	0.1697
41 cis 1,2-Dichloroethene	96	8.656	8.656	(0.963)	20543	0.16000	0.1641
42 Ethyl acetate	43	8.839	8.844	(0.983)	28015	0.16000	0.1309
43 Chloroform	83	9.006	9.000	(1.002)	56380	0.16000	0.1644
44 Tetrahydrofuran	42	9.409	9.425	(1.047)	13133	0.16000	0.1357
45 1,1,1-Trichloroethane	97	10.044	10.049	(1.117)	66790	0.16000	0.1625
46 1,2-Dichloroethane	62	10.136	10.135	(0.908)	41469	0.16000	0.1709
47 1-Butanol	31	10.571	10.576	(0.947)	5992	0.16000	0.1841
48 Benzene	78	10.641	10.641	(0.953)	54903	0.16000	0.1768
49 Cyclohexane	69	10.657	10.646	(0.954)	9243	0.16000	0.1680
50 Carbon Tetrachloride	117	10.668	10.662	(0.955)	22578	0.16000	0.06784
51 ~ 2,3-dimethylpentane	71	10.770	10.775	(0.964)	10931	0.16480	0.1728
52 ~ Thiophene	84	10.905	10.904	(0.976)	31240	0.16640	0.1818
53 2,2,4-trimethylpentane	57	11.410	11.421	(1.022)	88820	0.16000	0.1737
54 Heptane	71	11.782	11.781	(1.055)	18149	0.16000	0.1744
55 1,2-Dichloropropane	63	11.841	11.840	(1.060)	17688	0.16000	0.1661
180 ~ 2-nitropropane	43	11.782	11.781	(1.055)	34899	0.16000	0.000
56 Trichloroethene	130	11.884	11.883	(1.064)	30123	0.16000	0.1766
57 Dibromomethane	93	11.954	11.959	(1.070)	28883	0.16000	0.1719
58 Bromodichloromethane	83	12.099	12.109	(1.083)	54544	0.16000	0.1663
59 1,4-dioxane	88	12.110	12.120	(1.084)	5805	0.16000	0.1531
60 Methyl Methacrylate	41	12.201	12.195	(1.092)	15744	0.16000	0.1293
61 ~ methyl cyclohexane	83	12.669	12.669	(1.134)	32836	0.16640	0.1792
62 4-Methyl-2-pentanone	43	13.046	13.051	(1.168)	29720	0.16000	0.1589

Data File: /var/chem/gcms/mj.i/J052412I.b/jice243.d
Report Date: 25-May-2012 12:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
	==========	====	==	======	======	========	=======	=======
63	cis-1,3-Dichloropropene	75	13.100	13.099	(1.173)	28045	0.16000	0.1640
64	trans-1,3-Dichloropropene	75	13.794	13.793	(0.868)	27929	0.16000	0.1463
65	Toluene	91	13.928	13.927	(0.876)	56595	0.16000	0.1671
66	1,1,2-Trichloroethane	83	13.987	13.997	(0.880)	16593	0.16000	0.1603
67	~ 2-methyl thiophene	97	14.079	14.083	(0.886)	51427	0.16800	0.1798
68	~ 3-methyl thiophene	97	14.278	14.288	(0.898)	49747	0.16640	0.1730
69	2-Hexanone	58	14.380	14.379	(0.905)	12703	0.16000	0.1418
70	Octane	85	14.627	14.627	(0.920)	19089	0.16000	0.1677
71	Dibromochloromethane	129	14.697	14.697	(0.925)	41181	0.16000	0.1442
72	1,2-Dibromoethane	107	14.988	14.987	(0.943)	34525	0.16000	0.1599
73	Tetrachloroethene	129	15.074	15.079	(0.948)	29716	0.16000	0.1774
74	Chlorobenzene	112	15.945	15.945	(1.003)	47373	0.16000	0.1709
75	~ 2,3-dimethylheptane	43	15.972	15.982	(1.005)	51979	0.16640	0.1633
76	Ethylbenzene	91	16.236	16.241	(1.021)	67163	0.16000	0.1564
77	~ 2-ethyl thiophene	97	16.333	16.332	(1.027)	57853	0.16480	0.1612
78	m&p-Xylene	91	16.397	16.397	(1.031)	106187	0.32000	0.3107
79	Nonane	57	16.822	16.822	(1.058)	30419	0.16000	0.1448
80	Bromoform	173	16.838	16.832	(1.059)	31528	0.16000	0.1230
81	Styrene	104	16.855	16.859	(1.060)	31291	0.16000	0.1447
82	o-Xylene	91	16.924	16.924	(1.065)	55412	0.16000	0.1574
M 83	Xylene (total)	100				161599	0.48000	0.4681
84	1,1,2,2-Tetrachloroethane	83	17.236	17.236	(1.084)	32333	0.16000	0.1495
85	1,2,3-Trichloropropane	110	17.392	17.397	(1.094)	11596	0.16000	0.1458
86	Cumene	105	17.511	17.510	(1.102)	74107	0.16000	0.1519
87	n-Propylbenzene	120	18.043	18.037	(1.135)	16443	0.16000	0.1403
88	2-chlorotoluene	126	18.086	18.086	(1.138)	18789	0.16000	0.1552
89	4-Ethyltoluene	105	18.189	18.188	(1.144)	64670	0.16000	0.1416
90	1,3,5-Trimethylbenzene	120	18.264	18.263	(1.149)	27322	0.16000	0.1393
91	Alpha-Methylstyrene	118	18.490	18.489	(1.163)	20708	0.16000	0.1264
92	Decane	57	18.554	18.554	(1.167)	27817	0.16000	0.1261
93	tert-butylbenzene	119	18.684	18.683	(1.175)	58314	0.16000	0.1402
94	1,2,4-Trimethylbenzene	105	18.700	18.699	(1.176)	52829	0.16000	0.1412
95	sec-butylbenzene	105	18.952	18.952	(1.192)	71621	0.16000	0.1417
96	1,3-Dichlorobenzene	146	18.963	18.963	(1.193)	40287	0.16000	0.1487
97	Benzyl Chloride	91	19.033	19.032	(1.197)	45859	0.16000	0.1376
98	1,4-Dichlorobenzene	146	19.049	19.049	(1.198)	41793	0.16000	0.1580
99	p-Cymene	119	19.114	19.113	(1.202)	58714	0.16000	0.1366
100	~ 1,2,3- Trimethylbenzene	105	19.168	19.167	(1.206)	45675	0.16640	0.1509
101	~ n-butylcyclohexane	83	19.227	19.226	(1.209)	37168	0.16480	0.1509
102	~ Indane	117	19.410	19.404	(1.221)	45310	0.16480	0.1462
103	1,2-Dichlorobenzene	146	19.404	19.404	(1.221)	37143	0.16000	0.1493
104	n-butylbenzene	91	19.544	19.544	(1.229)	56398	0.16000	0.1411
105	~ Indene	116	19.539	19.538	(1.229)	31170	0.16800	0.1428
106	Undecane	57	19.856	19.856	(1.249)	27002	0.16000	0.1200
107	~ 1,2-dimethyl-4-ethylenzene	119	19.910	19.915	(1.252)	48838	0.16480	0.1417
108	~ 1,2,4,5-tetramethylbenzene	119	20.297	20.297	(1.277)	45748	0.16480	0.1379
109	~ 1,2,3,5-tetramethylbenzene	119	20.346	20.350	(1.280)	37682	0.16800	0.1535

Data File: /var/chem/gcms/mj.i/J052412I.b/jice243.d
Report Date: 25-May-2012 12:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.755	20.754	(1.306)	37027	0.16320	0.1421
111 Dodecane	57	20.921	20.926	(1.316)	23420	0.16000	0.1577
112 1,2,4-Trichlorobenzene	180	21.126	21.120	(1.329)	21382	0.16000	0.1436
113 Napthalene	128	21.266	21.265	(1.338)	35735	0.16000	0.1376
114 ~ benzo(b) thiophene	134	21.373	21.378	(1.344)	21861	0.16320	0.1531
115 Hexachlorobutadiene	225	21.497	21.491	(1.352)	29181	0.16000	0.1421
116 1,2,3-trichlorobenzene	180	21.562	21.555	(1.356)	16485	0.16000	0.1592
117 ~ 2-Methylnaphthalene	142	22.272	22.271	(1.401)	15892	1.00000	1.034
118 ~ 1-Methylnaphthalene	142	22.411	22.411	(1.410)	17279	1.00000	1.170

Data File: /var/chem/gcms/mj.i/J052412I.b/jice243.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jice243.d
Lab Smp Id: ICAL3
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Calibration Date: 24-MAY-2012
Calibration Time: 18:13
Client Smp ID: STD 0.16
Level: LOW
Sample Type: AIR

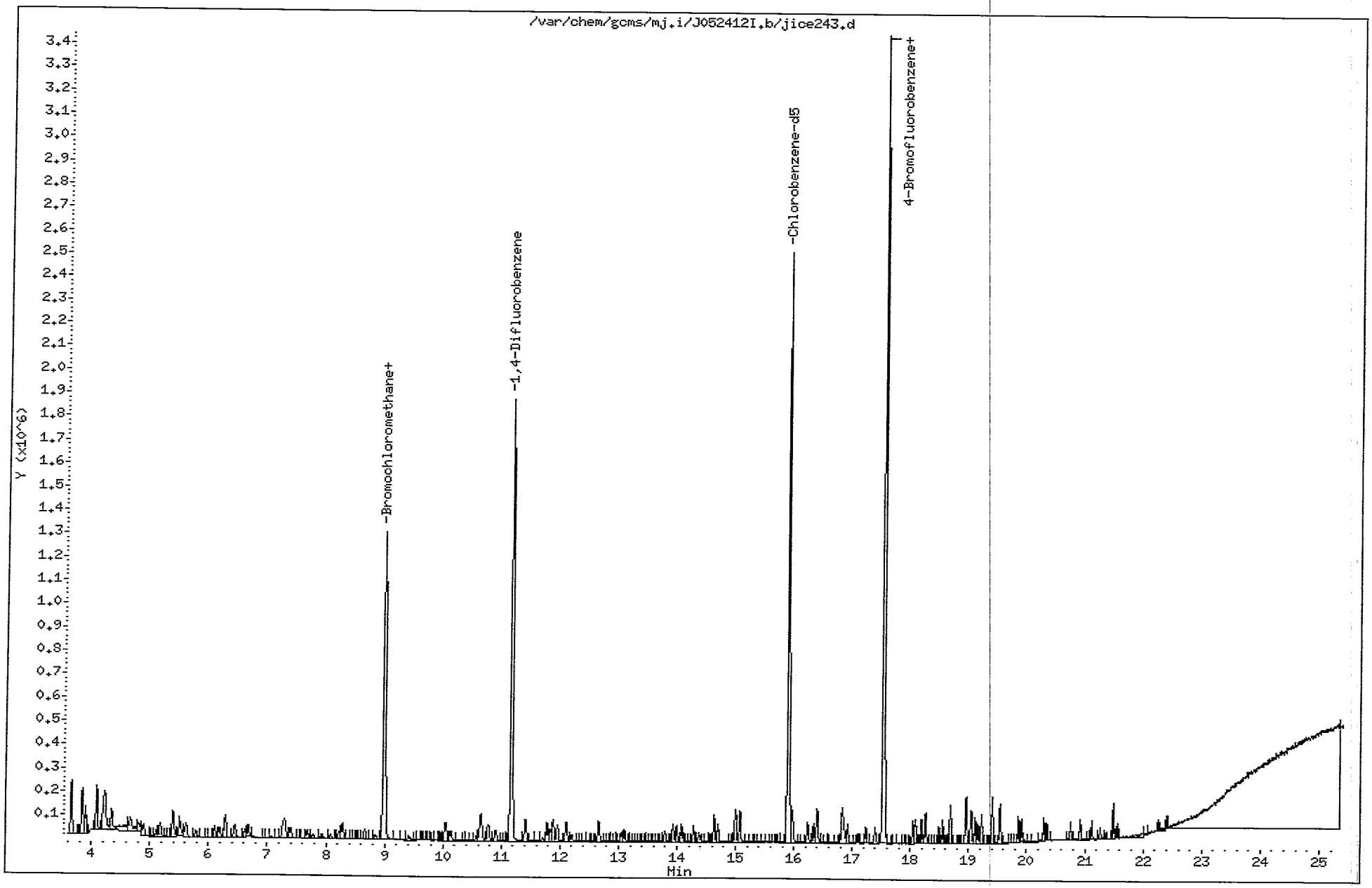
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	427058	254100	600016	425969	-0.26
2 1,4-Difluorobenze	1783321	1061076	2505566	1652672	-7.33
3 Chlorobenzene-d5	1569169	933656	2204682	1483022	-5.49

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.99	0.00
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.00
3 Chlorobenzene-d5	15.90	15.57	16.23	15.90	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J052412I.b/jice243.d
Date : 24-MAY-2012 15:28
Client ID: STD 0.16
Sample Info: ICAL3,,1,3,,STD 0.16
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J052412I.b/jice244.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J052412I.b/jice244.d
Lab Smp Id: ICAL4 Client Smp ID: STD 0.4
Inj Date : 24-MAY-2012 16:21
Operator : 7126 Inst ID: mj.i
Smp Info : ICAL4,,1,4,,STD 0.4
Misc Info : J052412I,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Meth Date : 25-May-2012 12:36 tajh Quant Type: ISTD
Cal Date : 24-MAY-2012 16:21 Cal File: jice244.d
Als bottle: 2 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.984	8.989	(1.000)	403994	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.168	11.173	(1.000)	1464719	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.897	15.896	(1.000)	1341055	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.532	17.537	(1.103)	1079092	4.00000	4.076
	5 Chlorodifluoromethane	67	3.836	3.836	(0.427)	26188	0.40000	0.4305
	6 Propene	41	3.847	3.846	(0.428)	55084	0.40000	0.4734
	7 Dichlorodifluoromethane	85	3.901	3.905	(0.434)	247123	0.40000	0.4408
	8 Chloromethane	52	4.078	4.078	(0.454)	17831	0.40000	0.4444
	9 1,2-Dichlorotetrafluoroethane	135	4.089	4.088	(0.455)	156513	0.40000	0.4247
	11 ~ acetaldehyde	44	4.234	4.234	(0.471)	141753	2.02400	3.789
	12 Vinyl Chloride	62	4.250	4.255	(0.473)	65063	0.40000	0.4173
	13 n-Butane	43	4.347	4.341	(0.484)	82104	0.40000	0.4473
	14 1,3-Butadiene	54	4.342	4.347	(0.483)	42629	0.40000	0.4096
	15 Bromomethane	94	4.665	4.675	(0.519)	76243	0.40000	0.4447
	16 Chloroethane	64	4.810	4.809	(0.535)	29690	0.40000	0.4333
	17 ~ ethanol	31	4.891	4.895	(0.544)	87816	2.08800	2.374

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18 Vinyl Bromide	106	5.117	5.110	(0.569)	50771	0.40000	0.4204
19 2-methyl butane	43	5.170	5.180	(0.575)	57515	0.40000	0.3994
20 Trichlorofluoromethane	101	5.391	5.390	(0.600)	229287	0.40000	0.4317
21 Acrolein	56	5.386	5.390	(0.599)	11886	0.40000	0.3324
22 Acetonitrile	40	5.450	5.452	(0.607)	15292	0.40000	0.3836
23 Acetone	58	5.504	5.509	(0.613)	89387	0.40000	1.583
24 Isopropyl alcohol	45	5.579	5.578	(0.621)	76080	0.40000	0.4970
25 Pentane	72	5.622	5.605	(0.626)	7008	0.40000	0.4009
26 Ethyl Ether	31	5.773	5.788	(0.643)	37406	0.40000	0.3696
27 1,1-Dichloroethene	96	6.096	6.100	(0.678)	44086	0.40000	0.4169
28 tert-butanol	59	6.171	6.186	(0.687)	89022	0.40000	0.4241
29 Acrylonitrile	53	6.182	6.192	(0.688)	23310	0.40000	0.3600
30 1,1,2-Trichlorotrifluoroethane	101	6.284	6.283	(0.699)	111466	0.40000	0.4248
31 Methylene Chloride	84	6.445	6.445	(0.717)	44479	0.40000	0.4355
32 3-Chloropropene	39	6.456	6.461	(0.719)	57644	0.40000	0.4553
33 Carbon Disulfide	76	6.612	6.617	(0.736)	144048	0.40000	0.3998
34 trans-1,2-Dichloroethene	96	7.263	7.257	(0.808)	54121	0.40000	0.4243
35 ~ 2-Methyl Pentane	43	7.290	7.289	(0.811)	110280	0.40000	0.4106
36 Methyl-t-Butyl Ether	73	7.387	7.402	(0.822)	105502	0.40000	0.3543
37 1,1-Dichloroethane	63	7.672	7.671	(0.854)	99146	0.40000	0.4150
38 Vinyl Acetate	43	7.774	7.779	(0.865)	79750	0.40000	0.3363
39 2-Butanone	72	8.210	8.220	(0.914)	20500	0.40000	0.4675
40 Hexane	56	8.274	8.279	(0.921)	43273	0.40000	0.4228
41 cis 1,2-Dichloroethene	96	8.656	8.656	(0.963)	49790	0.40000	0.4194
42 Ethyl acetate	43	8.834	8.844	(0.983)	71979	0.40000	0.3546
43 Chloroform	83	9.001	9.000	(1.002)	133934	0.40000	0.4119
44 Tetrahydrofuran	42	9.399	9.425	(1.046)	31419	0.40000	0.3424
45 1,1,1-Trichloroethane	97	10.044	10.049	(1.118)	162461	0.40000	0.4167
46 1,2-Dichloroethane	62	10.130	10.135	(0.907)	99334	0.40000	0.4620
47 1-Butanol	31	10.571	10.576	(0.947)	13876	0.40000	0.4810
48 Benzene	78	10.636	10.641	(0.952)	117319	0.40000	0.4262
49 Cyclohexane	69	10.652	10.646	(0.954)	24193	0.40000	0.4960
50 Carbon Tetrachloride	117	10.663	10.662	(0.955)	155944	0.40000	0.5287
51 ~ 2,3-dimethylpentane	71	10.770	10.775	(0.964)	27237	0.41200	0.4858
52 ~ Thiophene	84	10.905	10.904	(0.976)	73350	0.41600	0.4817
53 2,2,4-trimethylpentane	57	11.411	11.421	(1.022)	209564	0.40000	0.4623
54 Heptane	71	11.782	11.781	(1.055)	42477	0.40000	0.4605
55 1,2-Dichloropropane	63	11.841	11.840	(1.060)	42316	0.40000	0.4484
56 Trichloroethene	130	11.884	11.883	(1.064)	69475	0.40000	0.4596
180 ~ 2-nitropropane	43	11.776	11.781	(1.054)	81319	0.40000	0.000
57 Dibromomethane	93	11.959	11.959	(1.071)	71319	0.40000	0.4789
58 Bromodichloromethane	83	12.105	12.109	(1.084)	138886	0.40000	0.4778
59 1,4-dioxane	88	12.110	12.120	(1.084)	15340	0.40000	0.4565
60 Methyl Methacrylate	41	12.196	12.195	(1.092)	40531	0.40000	0.3755
61 ~ methyl cyclohexane	83	12.664	12.669	(1.134)	79584	0.41600	0.4902
62 4-Methyl-2-pentanone	43	13.046	13.051	(1.168)	76054	0.40000	0.4588
63 cis-1,3-Dichloropropene	75	13.100	13.099	(1.173)	68211	0.40000	0.4500

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
	64 trans-1,3-Dichloropropene	75	13.794	13.793	(0.868)	73361	0.40000	0.4251
	65 Toluene	91	13.928	13.927	(0.876)	129727	0.40000	0.4235
	66 1,1,2-Trichloroethane	83	13.993	13.997	(0.880)	40670	0.40000	0.4346
	67 ~ 2-methyl thiophene	97	14.079	14.083	(0.886)	119442	0.42000	0.4618
	68 ~ 3-methyl thiophene	97	14.278	14.288	(0.898)	117371	0.41600	0.4512
	69 2-Hexanone	58	14.375	14.379	(0.904)	33366	0.40000	0.4118
	70 Octane	85	14.633	14.627	(0.920)	44002	0.40000	0.4276
	71 Dibromochloromethane	129	14.697	14.697	(0.925)	114342	0.40000	0.4427
	72 1,2-Dibromoethane	107	14.988	14.987	(0.943)	84366	0.40000	0.4321
	73 Tetrachloroethene	129	15.074	15.079	(0.948)	69472	0.40000	0.4586
	74 Chlorobenzene	112	15.945	15.945	(1.003)	108637	0.40000	0.4334
	75 ~ 2,3-dimethylheptane	43	15.972	15.982	(1.005)	126637	0.41600	0.4400
	76 Ethylbenzene	91	16.236	16.241	(1.021)	158151	0.40000	0.4074
	77 ~ 2-ethyl thiophene	97	16.338	16.332	(1.028)	140718	0.41200	0.4335
	78 m&p-Xylene	91	16.397	16.397	(1.031)	254111	0.80000	0.8223
	79 Nonane	57	16.822	16.822	(1.058)	76312	0.40000	0.4016
	80 Bromoform	173	16.833	16.832	(1.059)	99296	0.40000	0.4284
	81 Styrene	104	16.860	16.859	(1.061)	76043	0.40000	0.3889
	82 o-Xylene	91	16.925	16.924	(1.065)	128391	0.40000	0.4033
M	83 Xylene (total)	100				382502	1.20000	1.226
	84 1,1,2,2-Tetrachloroethane	83	17.231	17.236	(1.084)	79402	0.40000	0.4060
	85 1,2,3-Trichloropropane	110	17.393	17.397	(1.094)	28933	0.40000	0.4023
	86 Cumene	105	17.511	17.510	(1.102)	175747	0.40000	0.3983
	87 n-Propylbenzene	120	18.038	18.037	(1.135)	41189	0.40000	0.3886
	88 2-chlorotoluene	126	18.081	18.086	(1.137)	46109	0.40000	0.4211
	89 4-Ethyltoluene	105	18.189	18.188	(1.144)	163567	0.40000	0.3960
	90 1,3,5-Trimethylbenzene	120	18.259	18.263	(1.149)	67054	0.40000	0.3781
	91 Alpha-Methylstyrene	118	18.490	18.489	(1.163)	53424	0.40000	0.3607
	92 Decane	57	18.555	18.554	(1.167)	73222	0.40000	0.3671
	93 tert-butylbenzene	119	18.684	18.683	(1.175)	140552	0.40000	0.3738
	94 1,2,4-Trimethylbenzene	105	18.694	18.699	(1.176)	136620	0.40000	0.4039
	95 sec-butylbenzene	105	18.953	18.952	(1.192)	179113	0.40000	0.3919
	96 1,3-Dichlorobenzene	146	18.963	18.963	(1.193)	100900	0.40000	0.4118
	97 Benzyl Chloride	91	19.033	19.032	(1.197)	122543	0.40000	0.4068
	98 1,4-Dichlorobenzene	146	19.049	19.049	(1.198)	99643	0.40000	0.4167
	99 p-Cymene	119	19.109	19.113	(1.202)	155927	0.40000	0.4011
	100 ~ 1,2,3- Trimethylbenzene	105	19.162	19.167	(1.205)	114486	0.41600	0.4184
	101 ~ n-butylcyclohexane	83	19.227	19.226	(1.209)	94382	0.41200	0.4236
	102 ~ Indane	117	19.410	19.404	(1.221)	117749	0.41200	0.4202
	103 1,2-Dichlorobenzene	146	19.404	19.404	(1.221)	94638	0.40000	0.4208
	104 n-butylbenzene	91	19.544	19.544	(1.229)	147188	0.40000	0.4073
	105 ~ Indene	116	19.534	19.538	(1.229)	79869	0.42000	0.4048
	106 Undecane	57	19.856	19.856	(1.249)	76125	0.40000	0.3740
	107 ~ 1,2-dimethyl-4-ethylenzene	119	19.910	19.915	(1.252)	131681	0.41200	0.4226
	108 ~ 1,2,4,5-tetramethylbenzene	119	20.297	20.297	(1.277)	126064	0.41200	0.4202
	109 ~ 1,2,3,5-tetramethylbenzene	119	20.351	20.350	(1.280)	96215	0.42000	0.4335
	110 ~ 1,2,3,4-tetramethylbenzene	119	20.755	20.754	(1.306)	95894	0.40800	0.4070

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.921	20.926	(1.316)	60528	0.40000	0.4508
112 1,2,4-Trichlorobenzene	180	21.121	21.120	(1.329)	52908	0.40000	0.3931
113 Napthalene	128	21.266	21.265	(1.338)	93581	0.40000	0.3986
114 ~ benzo(b) thiophene	134	21.373	21.378	(1.344)	54895	0.40800	0.4252
115 Hexachlorobutadiene	225	21.492	21.491	(1.352)	70350	0.40000	0.3788
116 1,2,3-trichlorobenzene	180	21.556	21.555	(1.356)	39624	0.40000	0.4232
117 ~ 2-Methylnaphthalene	142	22.272	22.271	(1.401)	37412	2.50000	2.691
118 ~ 1-Methylnaphthalene	142	22.417	22.411	(1.410)	36531	2.50000	2.735

Data File: /var/chem/gcms/mj.i/J052412I.b/jice244.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

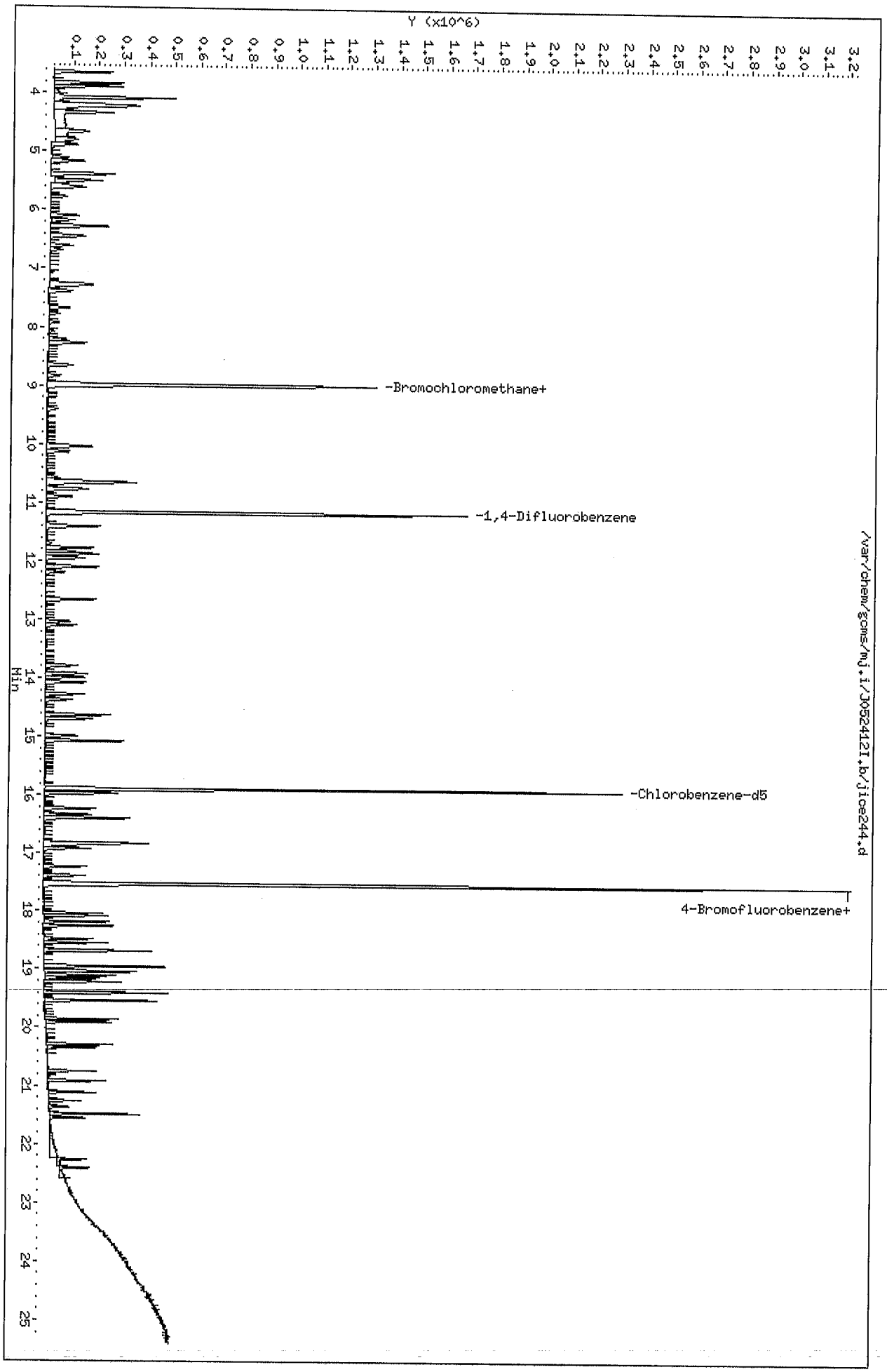
Instrument ID: mj.i
Lab File ID: jice244.d
Lab Smp Id: ICAL4
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Calibration Date: 24-MAY-2012
Calibration Time: 18:13
Client Smp ID: STD 0.4
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	427058	254100	600016	403994	-5.40
2 1,4-Difluorobenze	1783321	1061076	2505566	1464719	-17.87
3 Chlorobenzene-d5	1569169	933656	2204682	1341055	-14.54

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.98	-0.05
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.00
3 Chlorobenzene-d5	15.90	15.57	16.23	15.90	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /var/chem/gcms/mj.i/J052412I.b/jice244.d
Date : 24-MAY-2012 16:21
Client ID: STD 0.4
Sample Info: ICAL4,1,4,,STD 0.4
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+
/var/chem/gcms/mj.i/J052412I.b/jice244.d
Min

Data File: /var/chem/gcms/mj.i/J052412I.b/jice245.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J052412I.b/jice245.d
Lab Smp Id: ICAL5 Client Smp ID: STD 1.0
Inj Date : 24-MAY-2012 17:16
Operator : 7126 Inst ID: mj.i
Smp Info : ICAL5,,1,5,,STD 1.0
Misc Info : J052412I,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Meth Date : 25-May-2012 12:36 tajh Quant Type: ISTD
Cal Date : 24-MAY-2012 17:16 Cal File: jice245.d
Als bottle: 3 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.985	8.989	(1.000)	425082	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.169	11.173	(1.000)	1817802	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.898	15.896	(1.000)	1622531	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.533	17.537	(1.103)	1285349	4.00000	4.013
	5 Chlorodifluoromethane	67	3.837	3.836	(0.427)	67771	1.00000	1.059
	6 Propene	41	3.848	3.846	(0.428)	119928	1.00000	0.9795
	7 Dichlorodifluoromethane	85	3.902	3.905	(0.434)	599974	1.00000	1.017
	8 Chloromethane	52	4.085	4.078	(0.455)	44100	1.00000	1.045
	9 1,2-Dichlorotetrafluoroethane	135	4.090	4.088	(0.455)	381832	1.00000	0.9847
	11 ~ acetaldehyde	44	4.230	4.234	(0.471)	119120	5.06000	3.026
	12 Vinyl Chloride	62	4.257	4.255	(0.474)	157755	1.00000	0.9616
	13 n-Butane	43	4.348	4.341	(0.484)	197784	1.00000	1.024
	14 1,3-Butadiene	54	4.343	4.347	(0.483)	108235	1.00000	0.9885
	15 Bromomethane	94	4.671	4.675	(0.520)	176217	1.00000	0.9768
	16 Chloroethane	64	4.816	4.809	(0.536)	71495	1.00000	0.9916
	17 ~ ethanol	31	4.897	4.895	(0.545)	201907	5.22000	5.188

Data File: /var/chem/gcms/mj.i/J052412I.b/jice245.d
Report Date: 25-May-2012 12:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
18 Vinyl Bromide	106	5.117	5.110	(0.570)	123183	1.00000	0.9693
19 2-methyl butane	43	5.177	5.180	(0.576)	144290	1.00000	0.9522
20 Trichlorofluoromethane	101	5.392	5.390	(0.600)	558956	1.00000	1.000
21 Acrolein	56	5.386	5.390	(0.599)	36960	1.00000	0.9822
22 Acetonitrile	40	5.440	5.452	(0.605)	44999	1.00000	1.073
23 Acetone	58	5.505	5.509	(0.613)	70284	1.00000	1.183
24 Isopropyl alcohol	45	5.580	5.578	(0.621)	154382	1.00000	0.9585
25 Pentane	72	5.618	5.605	(0.625)	18196	1.00000	0.9893
26 Ethyl Ether	31	5.774	5.788	(0.643)	110382	1.00000	1.036
27 1,1-Dichloroethene	96	6.102	6.100	(0.679)	105066	1.00000	0.9443
28 tert-butanol	59	6.172	6.186	(0.687)	214582	1.00000	0.9716
29 Acrylonitrile	53	6.188	6.192	(0.689)	73601	1.00000	1.080
30 1,1,2-Trichlorotrifluoroethane	101	6.285	6.283	(0.699)	275431	1.00000	0.9976
31 Methylene Chloride	84	6.441	6.445	(0.717)	107770	1.00000	1.003
32 3-Chloropropene	39	6.462	6.461	(0.719)	141759	1.00000	1.064
33 Carbon Disulfide	76	6.613	6.617	(0.736)	348654	1.00000	0.9198
34 trans-1,2-Dichloroethene	96	7.258	7.257	(0.808)	132094	1.00000	0.9843
35 ~ 2-Methyl Pentane	43	7.291	7.289	(0.811)	275410	1.00000	0.9746
36 Methyl-t-Butyl Ether	73	7.388	7.402	(0.822)	338920	1.00000	1.082
37 1,1-Dichloroethane	63	7.673	7.671	(0.854)	253906	1.00000	1.010
38 Vinyl Acetate	43	7.775	7.779	(0.865)	258799	1.00000	1.037
39 2-Butanone	72	8.211	8.220	(0.914)	42174	1.00000	0.9141
40 Hexane	56	8.275	8.279	(0.921)	106105	1.00000	0.9852
41 cis 1,2-Dichloroethene	96	8.657	8.656	(0.963)	124332	1.00000	0.9954
42 Ethyl acetate	43	8.840	8.844	(0.984)	219416	1.00000	1.027
43 Chloroform	83	9.001	9.000	(1.002)	345310	1.00000	1.009
44 Tetrahydrofuran	42	9.394	9.425	(1.046)	102386	1.00000	1.060
45 1,1,1-Trichloroethane	97	10.040	10.049	(1.117)	416234	1.00000	1.015
46 1,2-Dichloroethane	62	10.136	10.135	(0.908)	266119	1.00000	0.9973
47 1-Butanol	31	10.561	10.576	(0.946)	34318	1.00000	0.9585
48 Benzene	78	10.637	10.641	(0.952)	318478	1.00000	0.9324
49 Cyclohexane	69	10.653	10.646	(0.954)	57057	1.00000	0.9426
50 Carbon Tetrachloride	117	10.664	10.662	(0.955)	368146	1.00000	1.006
51 ~ 2,3-dimethylpentane	71	10.771	10.775	(0.964)	68637	1.03000	0.9864
52 ~ Thiophene	84	10.906	10.904	(0.976)	190635	1.04000	1.009
53 2,2,4-trimethylpentane	57	11.411	11.421	(1.022)	539832	1.00000	0.9597
54 Heptane	71	11.783	11.781	(1.055)	106717	1.00000	0.9322
55 1,2-Dichloropropane	63	11.842	11.840	(1.060)	111494	1.00000	0.9519
56 Trichloroethene	130	11.890	11.883	(1.065)	177865	1.00000	0.9480
180 ~ 2-nitropropane	43	11.783	11.781	(1.055)	214594	1.00000	0.000
57 Dibromomethane	93	11.955	11.959	(1.070)	181447	1.00000	0.9818
58 Bromodichloromethane	83	12.105	12.109	(1.084)	351519	1.00000	0.9744
59 1,4-dioxane	88	12.111	12.120	(1.084)	38710	1.00000	0.9281
60 Methyl Methacrylate	41	12.197	12.195	(1.092)	135179	1.00000	1.009
61 ~ methyl cyclohexane	83	12.665	12.669	(1.134)	202620	1.04000	1.006
62 4-Methyl-2-pentanone	43	13.041	13.051	(1.168)	173668	1.00000	0.8441
63 cis-1,3-Dichloropropene	75	13.101	13.099	(1.173)	187900	1.00000	0.9988

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
64	trans-1,3-Dichloropropene	75	13.795	13.793	(0.868)	206171	1.00000	0.9874
65	Toluene	91	13.929	13.927	(0.876)	367702	1.00000	0.9922
66	1,1,2-Trichloroethane	83	13.994	13.997	(0.880)	109815	1.00000	0.9699
67	~ 2-methyl thiophene	97	14.080	14.083	(0.886)	322882	1.05000	1.032
68	~ 3-methyl thiophene	97	14.284	14.288	(0.898)	318444	1.04000	1.012
69	2-Hexanone	58	14.376	14.379	(0.904)	81168	1.00000	0.8281
70	Octane	85	14.634	14.627	(0.920)	116274	1.00000	0.9338
71	Dibromochloromethane	129	14.698	14.697	(0.925)	314716	1.00000	1.007
72	1,2-Dibromoethane	107	14.989	14.987	(0.943)	231480	1.00000	0.9800
73	Tetrachloroethene	129	15.075	15.079	(0.948)	172902	1.00000	0.9433
74	Chlorobenzene	112	15.946	15.945	(1.003)	294212	1.00000	0.9700
75	~ 2,3-dimethylheptane	43	15.973	15.982	(1.005)	339372	1.04000	0.9746
76	Ethylbenzene	91	16.237	16.241	(1.021)	478773	1.00000	1.019
77	~ 2-ethyl thiophene	97	16.339	16.332	(1.028)	418660	1.03000	1.066
78	m&p-Xylene	91	16.398	16.397	(1.031)	761936	2.00000	2.038
79	Nonane	57	16.823	16.822	(1.058)	217048	1.00000	0.9440
80	Bromoform	173	16.839	16.832	(1.059)	271506	1.00000	0.9681
81	Styrene	104	16.861	16.859	(1.061)	247678	1.00000	1.047
82	o-Xylene	91	16.920	16.924	(1.064)	391074	1.00000	1.015
M 83	Xylene (total)	100				1153010	3.00000	3.053
84	1,1,2,2-Tetrachloroethane	83	17.232	17.236	(1.084)	236946	1.00000	1.001
85	1,2,3-Trichloropropane	110	17.393	17.397	(1.094)	87420	1.00000	1.005
86	Cumene	105	17.506	17.510	(1.101)	549110	1.00000	1.029
87	n-Propylbenzene	120	18.044	18.037	(1.135)	128241	1.00000	1.0000
88	2-chlorotoluene	126	18.087	18.086	(1.138)	132594	1.00000	1.001
89	4-Ethyltoluene	105	18.190	18.188	(1.144)	518231	1.00000	1.037
90	1,3,5-Trimethylbenzene	120	18.265	18.263	(1.149)	221258	1.00000	1.031
91	Alpha-Methylstyrene	118	18.491	18.489	(1.163)	190296	1.00000	1.062
92	Decane	57	18.555	18.554	(1.167)	250809	1.00000	1.039
93	tert-butylbenzene	119	18.684	18.683	(1.175)	452203	1.00000	0.9941
94	1,2,4-Trimethylbenzene	105	18.695	18.699	(1.176)	428076	1.00000	1.046
95	sec-butylbenzene	105	18.953	18.952	(1.192)	574666	1.00000	1.039
96	1,3-Dichlorobenzene	146	18.964	18.963	(1.193)	286899	1.00000	0.9678
97	Benzyl Chloride	91	19.034	19.032	(1.197)	361008	1.00000	0.9904
98	1,4-Dichlorobenzene	146	19.050	19.049	(1.198)	277479	1.00000	0.9591
99	p-Cymene	119	19.115	19.113	(1.202)	504371	1.00000	1.072
100	~ 1,2,3- Trimethylbenzene	105	19.163	19.167	(1.205)	364288	1.04000	1.100
101	~ n-butylcyclohexane	83	19.222	19.226	(1.209)	281423	1.03000	1.044
102	~ Indane	117	19.405	19.404	(1.221)	350706	1.03000	1.034
103	1,2-Dichlorobenzene	146	19.405	19.404	(1.221)	262140	1.00000	0.9633
104	n-butylbenzene	91	19.540	19.544	(1.229)	447132	1.00000	1.023
105	~ Indene	116	19.534	19.538	(1.229)	260151	1.05000	1.090
106	Undecane	57	19.857	19.856	(1.249)	189445	1.00000	0.7693
107	~ 1,2-dimethyl-4-ethylenzene	119	19.911	19.915	(1.252)	387073	1.03000	1.027
108	~ 1,2,4,5-tetramethylbenzene	119	20.293	20.297	(1.276)	337480	1.03000	0.9297
109	~ 1,2,3,5-tetramethylbenzene	119	20.347	20.350	(1.280)	257170	1.50000	0.9577
110	~ 1,2,3,4-tetramethylbenzene	119	20.756	20.754	(1.306)	229244	1.02000	0.8043

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
111 Dodecane	57	20.922	20.926	(1.316)	111660	1.00000	0.6874
112 1,2,4-Trichlorobenzene	180	21.121	21.120	(1.329)	108726	1.00000	0.6676
113 Napthalene	128	21.267	21.265	(1.338)	193075	1.00000	0.6796
114 ~ benzo(b) thiophene	134	21.374	21.378	(1.344)	103055	1.02000	0.6597
115 Hexachlorobutadiene	225	21.493	21.491	(1.352)	190047	1.00000	0.8457
116 1,2,3-trichlorobenzene	180	21.557	21.555	(1.356)	79013	1.00000	0.6977
117 ~ 2-Methylnaphthalene	142	22.273	22.271	(1.401)	115582	6.25000	6.872
118 ~ 1-Methylnaphthalene	142	22.412	22.411	(1.410)	114951	6.25000	7.114

Data File: /var/chem/gcms/mj.i/J052412I.b/jice245.d
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TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

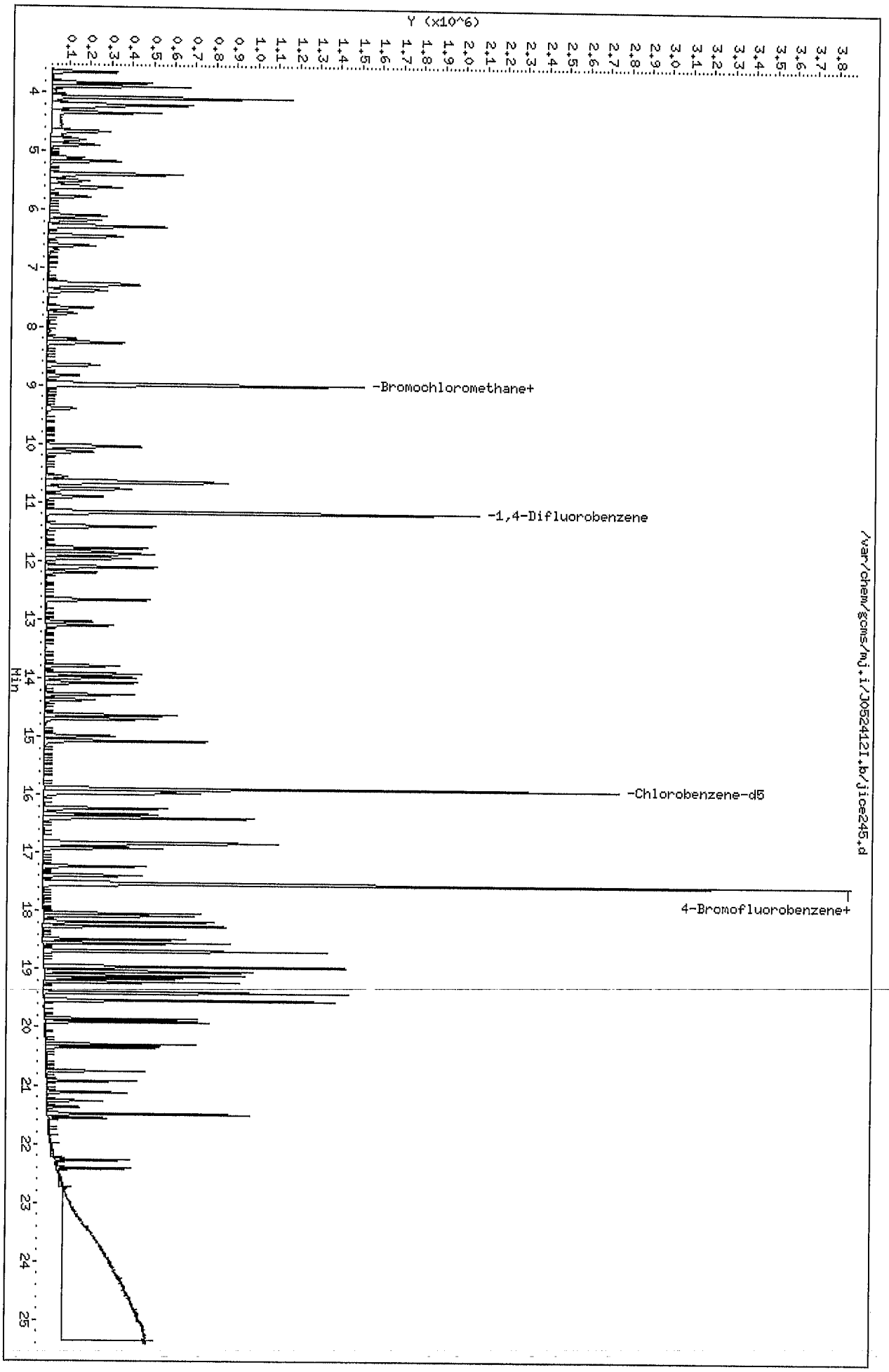
Instrument ID: mj.i
Lab File ID: jice245.d
Lab Smp Id: ICAL5
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Calibration Date: 24-MAY-2012
Calibration Time: 18:13
Client Smp ID: STD 1.0
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	427058	254100	600016	425082	-0.46
2 1,4-Difluorobenze	1783321	1061076	2505566	1817802	1.93
3 Chlorobenzene-d5	1569169	933656	2204682	1622531	3.40

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.99	-0.05
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.01
3 Chlorobenzene-d5	15.90	15.57	16.23	15.90	0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /var/chem/gcms/mj.i/J052412I.b/jice245.d
Date : 24-MAY-2012 17:16
Client ID: STD 1.0
Sample Info: ICAL5,1.5,STD 1.0
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+
/var/chem/gcms/mj.i/J052412I.b/jice245.d
Min

Data File: /var/chem/gcms/mj.i/J052412I.b/jice246.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J052412I.b/jice246.d
Lab Smp Id: ICAL6 Client Smp ID: STD 2.0
Inj Date : 24-MAY-2012 18:13
Operator : 7126 Inst ID: mj.i
Smp Info : ICAL6,,1,6,,STD 2.0
Misc Info : J052412I,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Meth Date : 25-May-2012 12:36 tajh Quant Type: ISTD
Cal Date : 24-MAY-2012 18:13 Cal File: jice246.d
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.989	8.989	(1.000)	427058	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.168	11.173	(1.000)	1783321	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.897	15.896	(1.000)	1569169	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.537	17.537	(1.103)	1276270	4.00000	4.120
	5 Chlorodifluoromethane	67	3.836	3.836	(0.427)	123665	2.00000	1.923
	6 Propene	41	3.847	3.846	(0.428)	239167	2.00000	1.944
	7 Dichlorodifluoromethane	85	3.900	3.905	(0.434)	1167915	2.00000	1.971
	8 Chloromethane	52	4.078	4.078	(0.454)	84953	2.00000	2.003
	9 1,2-Dichlorotetrafluoroethane	135	4.089	4.088	(0.455)	754594	2.00000	1.937
	10 Methanol	31	4.212	4.212	(0.469)	1042930	2.00000	2.180
	11 ~ acetaldehyde	44	4.229	4.234	(0.470)	316681	10.1200	8.008
	12 Vinyl Chloride	62	4.255	4.255	(0.473)	308675	2.00000	1.873
	13 n-Butane	43	4.347	4.341	(0.484)	373019	2.00000	1.922
	14 1,3-Butadiene	54	4.347	4.347	(0.484)	207956	2.00000	1.890
	15 Bromomethane	94	4.664	4.675	(0.519)	335437	2.00000	1.851
	16 Chloroethane	64	4.809	4.809	(0.535)	138694	2.00000	1.915

Data File: /var/chem/gcms/mj.i/J052412I.b/jice246.d
Report Date: 25-May-2012 12:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 ~ ethanol	31	4.896	4.895	(0.545)	425835	10.4400	10.89
18 Vinyl Bromide	106	5.116	5.110	(0.569)	246774	2.00000	1.933
19 2-methyl butane	43	5.175	5.180	(0.576)	278426	2.00000	1.829
20 Trichlorofluoromethane	101	5.390	5.390	(0.600)	1094221	2.00000	1.949
21 Acrolein	56	5.385	5.390	(0.599)	75184	2.00000	1.989
22 Acetonitrile	40	5.444	5.452	(0.606)	84240	2.00000	1.999
23 Acetone	58	5.498	5.509	(0.612)	173004	2.00000	2.898
24 Isopropyl alcohol	45	5.584	5.578	(0.621)	326097	2.00000	2.015
25 Pentane	72	5.622	5.605	(0.625)	36412	2.00000	1.970
26 Ethyl Ether	31	5.772	5.788	(0.642)	227921	2.00000	2.130
27 1,1-Dichloroethene	96	6.101	6.100	(0.679)	218742	2.00000	1.957
28 tert-butanol	59	6.170	6.186	(0.686)	459943	2.00000	2.073
29 Acrylonitrile	53	6.181	6.192	(0.688)	151586	2.00000	2.215
30 1,1,2-Trichlorotrifluoroethane	101	6.283	6.283	(0.699)	539982	2.00000	1.947
31 Methylene Chloride	84	6.439	6.445	(0.716)	201602	2.00000	1.867
32 3-Chloropropene	39	6.461	6.461	(0.719)	285004	2.00000	2.130
33 Carbon Disulfide	76	6.612	6.617	(0.735)	703647	2.00000	1.848
34 trans-1,2-Dichloroethene	96	7.257	7.257	(0.807)	261354	2.00000	1.938
35 ~ 2-Methyl Pentane	43	7.289	7.289	(0.811)	535566	2.00000	1.886
36 Methyl-t-Butyl Ether	73	7.381	7.402	(0.821)	687334	2.00000	2.184
37 1,1-Dichloroethane	63	7.677	7.671	(0.854)	497281	2.00000	1.969
38 Vinyl Acetate	43	7.774	7.779	(0.865)	558358	2.00000	2.227
39 2-Butanone	72	8.209	8.220	(0.913)	92418	2.00000	1.994
40 Hexane	56	8.274	8.279	(0.920)	209718	2.00000	1.938
41 cis 1,2-Dichloroethene	96	8.661	8.656	(0.963)	248826	2.00000	1.983
42 Ethyl acetate	43	8.833	8.844	(0.983)	469782	2.00000	2.190
43 Chloroform	83	9.005	9.000	(1.002)	683884	2.00000	1.990
44 Tetrahydrofuran	42	9.398	9.425	(1.045)	213920	2.00000	2.205
45 1,1,1-Trichloroethane	97	10.044	10.049	(1.117)	821240	2.00000	1.993
46 1,2-Dichloroethane	62	10.135	10.135	(0.908)	527526	2.00000	2.015
47 1-Butanol	31	10.560	10.576	(0.946)	71695	2.00000	2.041
48 Benzene	78	10.635	10.641	(0.952)	632052	2.00000	1.888
49 Cyclohexane	69	10.652	10.646	(0.954)	116730	2.00000	1.966
50 Carbon Tetrachloride	117	10.668	10.662	(0.955)	803194	2.00000	2.236
51 ~ 2,3-dimethylpentane	71	10.775	10.775	(0.965)	138023	2.06000	2.022
52 ~ Thiophene	84	10.904	10.904	(0.976)	379030	2.08000	2.044
53 2,2,4-trimethylpentane	57	11.410	11.421	(1.022)	1083058	2.00000	1.962
54 Heptane	71	11.781	11.781	(1.055)	208009	2.00000	1.852
55 1,2-Dichloropropane	63	11.840	11.840	(1.060)	226932	2.00000	1.975
56 Trichloroethene	130	11.883	11.883	(1.064)	353046	2.00000	1.918
180 ~ 2-nitropropane	43	11.781	11.781	(1.055)	414068	2.00000	0.000
57 Dibromomethane	93	11.959	11.959	(1.071)	362771	2.00000	2.001
58 Bromodichloromethane	83	12.104	12.109	(1.084)	712487	2.00000	2.013
59 1,4-dioxane	88	12.109	12.120	(1.084)	84393	2.00000	2.062
60 Methyl Methacrylate	41	12.195	12.195	(1.092)	288901	2.00000	2.198
61 ~ methyl cyclohexane	83	12.664	12.669	(1.134)	402910	2.08000	2.038
62 4-Methyl-2-pentanone	43	13.040	13.051	(1.168)	382766	2.00000	1.896

Data File: /var/chem/gcms/mj.i/J052412I.b/jice246.d
Report Date: 25-May-2012 12:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
	63 cis-1,3-Dichloropropene	75	13.105	13.099	(1.173)	379361	2.00000	2.055
	64 trans-1,3-Dichloropropene	75	13.793	13.793	(0.868)	435549	2.00000	2.157
	65 Toluene	91	13.933	13.927	(0.876)	726683	2.00000	2.028
	66 1,1,2-Trichloroethane	83	13.992	13.997	(0.880)	223007	2.00000	2.037
	67 ~ 2-methyl thiophene	97	14.084	14.083	(0.886)	640024	2.10000	2.115
	68 ~ 3-methyl thiophene	97	14.283	14.288	(0.898)	636804	2.08000	2.092
	69 2-Hexanone	58	14.374	14.379	(0.904)	170176	2.00000	1.795
	70 Octane	85	14.632	14.627	(0.920)	226596	2.00000	1.882
	71 Dibromochloromethane	129	14.697	14.697	(0.925)	642856	2.00000	2.127
	72 1,2-Dibromoethane	107	14.987	14.987	(0.943)	465677	2.00000	2.038
	73 Tetrachloroethene	129	15.079	15.079	(0.949)	327614	2.00000	1.848
	74 Chlorobenzene	112	15.945	15.945	(1.003)	576290	2.00000	1.965
	75 ~ 2,3-dimethylheptane	43	15.977	15.982	(1.005)	699143	2.08000	2.076
	76 Ethylbenzene	91	16.235	16.241	(1.021)	967903	2.00000	2.131
	77 ~ 2-ethyl thiophene	97	16.338	16.332	(1.028)	835306	2.06000	2.199
	78 m&p-Xylene	91	16.397	16.397	(1.031)	1569541	4.00000	4.341
	79 Nonane	57	16.827	16.822	(1.059)	462567	2.00000	2.080
	80 Bromoform	173	16.838	16.832	(1.059)	599233	2.00000	2.209
	81 Styrene	104	16.859	16.859	(1.061)	511981	2.00000	2.238
	82 o-Xylene	91	16.924	16.924	(1.065)	816524	2.00000	2.192
M	83 Xylene (total)	100				2386065	6.00000	6.533
	84 1,1,2,2-Tetrachloroethane	83	17.236	17.236	(1.084)	504845	2.00000	2.206
	85 1,2,3-Trichloropropane	110	17.392	17.397	(1.094)	181072	2.00000	2.152
	86 Cumene	105	17.510	17.510	(1.102)	1128843	2.00000	2.186
	87 n-Propylbenzene	120	18.043	18.037	(1.135)	273575	2.00000	2.206
	88 2-chlorotoluene	126	18.086	18.086	(1.138)	271988	2.00000	2.123
	89 4-Ethyltoluene	105	18.194	18.188	(1.144)	1081581	2.00000	2.238
	90 1,3,5-Trimethylbenzene	120	18.264	18.263	(1.149)	470543	2.00000	2.268
	91 Alpha-Methylstyrene	118	18.489	18.489	(1.163)	392921	2.00000	2.267
	92 Decane	57	18.554	18.554	(1.167)	528038	2.00000	2.262
	93 tert-butylbenzene	119	18.683	18.683	(1.175)	961261	2.00000	2.185
	94 1,2,4-Trimethylbenzene	105	18.699	18.699	(1.176)	904435	2.00000	2.285
	95 sec-butylbenzene	105	18.952	18.952	(1.192)	1217127	2.00000	2.276
	96 1,3-Dichlorobenzene	146	18.963	18.963	(1.193)	585231	2.00000	2.041
	97 Benzyl Chloride	91	19.033	19.032	(1.197)	772791	2.00000	2.192
	98 1,4-Dichlorobenzene	146	19.049	19.049	(1.198)	563740	2.00000	2.015
	99 p-Cymene	119	19.113	19.113	(1.202)	1048753	2.00000	2.306
	100 ~ 1,2,3-Trimethylbenzene	105	19.167	19.167	(1.206)	762068	2.08000	2.380
	101 ~ n-butylcyclohexane	83	19.226	19.226	(1.209)	580485	2.06000	2.227
	102 ~ Indane	117	19.409	19.404	(1.221)	733558	2.06000	2.237
	103 1,2-Dichlorobenzene	146	19.409	19.404	(1.221)	549426	2.00000	2.088
	104 n-butylbenzene	91	19.544	19.544	(1.229)	958546	2.00000	2.267
	105 ~ Indene	116	19.538	19.538	(1.229)	517595	2.10000	2.242
	106 Undecane	57	19.856	19.856	(1.249)	503641	2.00000	2.115
	107 ~ 1,2-dimethyl-4-ethylenzene	119	19.910	19.915	(1.252)	857303	2.06000	2.352
	108 ~ 1,2,4,5-tetramethylbenzene	119	20.297	20.297	(1.277)	824318	2.06000	2.348
	109 ~ 1,2,3,5-tetramethylbenzene	119	20.351	20.350	(1.280)	639043	2.10000	2.461

Data File: /var/chem/gcms/mj.i/J052412I.b/jice246.d
Report Date: 25-May-2012 12:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.754	20.754	(1.306)	626794	2.04000	2.274
111 Dodecane	57	20.926	20.926	(1.316)	299816	2.00000	1.908
112 1,2,4-Trichlorobenzene	180	21.120	21.120	(1.329)	337477	2.00000	2.143
113 Napthalene	128	21.265	21.265	(1.338)	578931	2.00000	2.107
114 ~ benzo(b) thiophene	134	21.373	21.378	(1.344)	306465	2.04000	2.028
115 Hexachlorobutadiene	225	21.491	21.491	(1.352)	491623	2.00000	2.262
116 1,2,3-trichlorobenzene	180	21.561	21.555	(1.356)	237288	2.00000	2.168
117 ~ 2-Methylnaphthalene	142	22.271	22.271	(1.401)	195466	12.5000	12.02
118 ~ 1-Methylnaphthalene	142	22.416	22.411	(1.410)	178067	12.5000	11.40

Data File: /var/chem/gcms/mj.i/J052412I.b/jice246.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

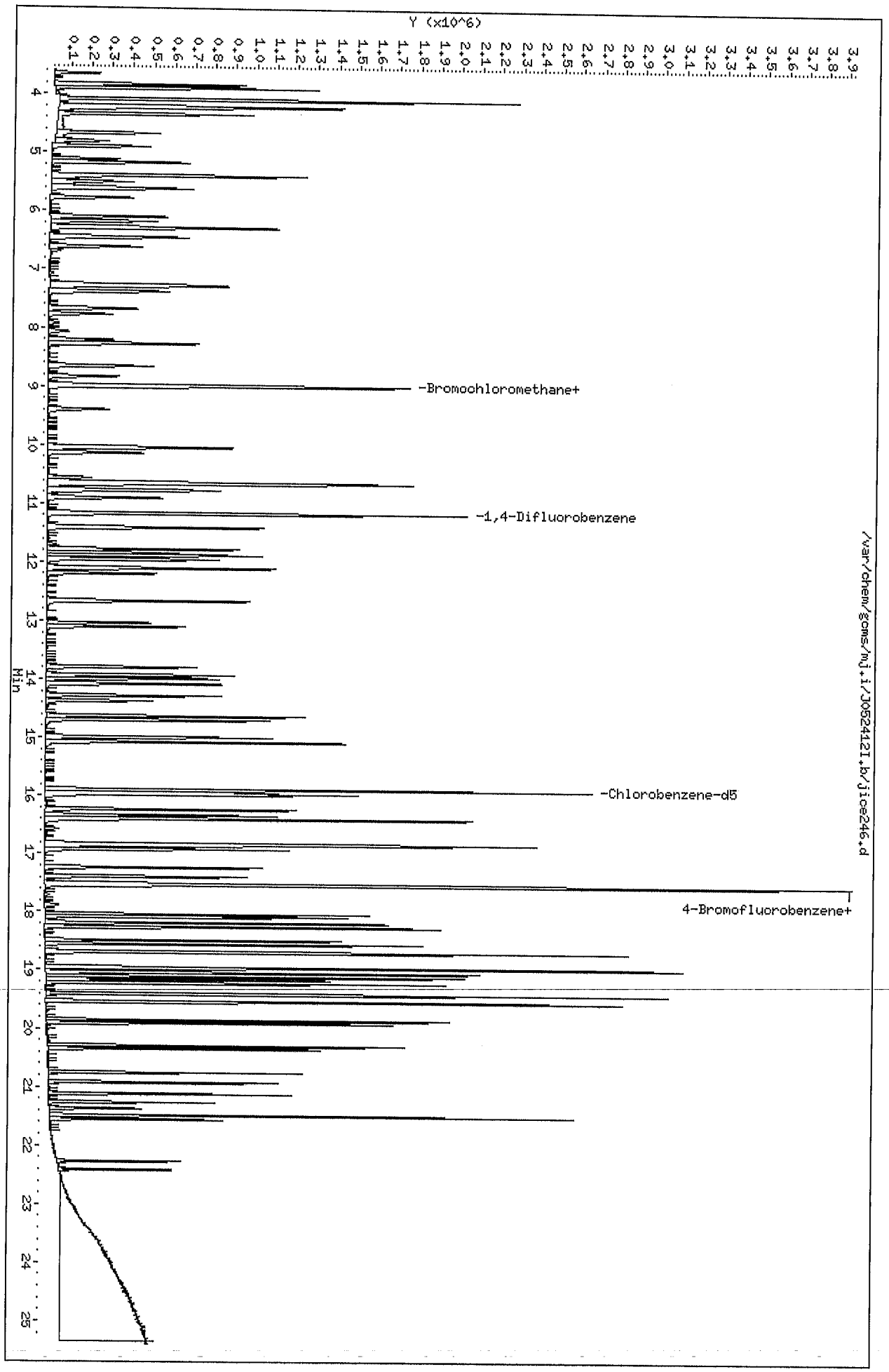
Instrument ID: mj.i
Lab File ID: jice246.d
Lab Smp Id: ICAL6
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Calibration Date: 24-MAY-2012
Calibration Time: 18:13
Client Smp ID: STD 2.0
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	427058	254100	600016	427058	0.00
2 1,4-Difluorobenze	1783321	1061076	2505566	1783321	0.00
3 Chlorobenzene-d5	1569169	933656	2204682	1569169	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.99	0.00
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.00
3 Chlorobenzene-d5	15.90	15.57	16.23	15.90	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /var/chem/gcms/mj.i/J0524121.b/jice246.d
Date : 24-MAY-2012 18:13
Client ID: STD 2.0
Sample Info: ICAL6,1,6,STD 2.0
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
Min
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+
/var/chem/gcms/mj.i/J0524121.b/jice246.d

Data File: /var/chem/gcms/mj.i/J052412I.b/jice247.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J052412I.b/jice247.d
Lab Smp Id: ICAL7 Client Smp ID: STD 4
Inj Date : 24-MAY-2012 19:10
Operator : 7126 Inst ID: mj.i
Smp Info : ICAL7,,1,7,,STD 4
Misc Info : J052412I,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Meth Date : 25-May-2012 12:36 tajh Quant Type: ISTD
Cal Date : 24-MAY-2012 19:10 Cal File: jice247.d
Als bottle: 5 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.988	8.989	(1.000)	432962	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.172	11.173	(1.000)	1906043	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.895	15.896	(1.000)	1677564	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.536	17.537	(1.103)	1313340	4.00000	3.966
	5 Chlorodifluoromethane	67	3.835	3.836	(0.427)	247435	4.00000	3.795
	6 Propene	41	3.845	3.846	(0.428)	462066	4.00000	3.705
	7 Dichlorodifluoromethane	85	3.899	3.905	(0.434)	2325505	4.00000	3.870
	8 Chloromethane	52	4.082	4.078	(0.454)	169556	4.00000	3.944
	9 1,2-Dichlorotetrafluoroethane	135	4.087	4.088	(0.455)	1518625	4.00000	3.845
	10 Methanol	31	4.211	4.212	(0.469)	1927253	4.00000	3.973
	11 ~ acetaldehyde	44	4.233	4.234	(0.471)	306139	20.2400	7.636
	12 Vinyl Chloride	62	4.254	4.255	(0.473)	614792	4.00000	3.679
	13 n-Butane	43	4.346	4.341	(0.483)	746901	4.00000	3.797
	14 1,3-Butadiene	54	4.346	4.347	(0.483)	413857	4.00000	3.711
	15 Bromomethane	94	4.668	4.675	(0.519)	693565	4.00000	3.774
	16 Chloroethane	64	4.808	4.809	(0.535)	280650	4.00000	3.821

Data File: /var/chem/gcms/mj.i/J052412I.b/jice247.d
Report Date: 25-May-2012 12:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 ~ ethanol	31	4.900	4.895	(0.545)	744155	20.8800	18.78
18 Vinyl Bromide	106	5.115	5.110	(0.569)	504080	4.00000	3.894
19 2-methyl butane	43	5.174	5.180	(0.576)	551396	4.00000	3.572
20 Trichlorofluoromethane	101	5.395	5.390	(0.600)	2188123	4.00000	3.844
21 Acrolein	56	5.384	5.390	(0.599)	134930	4.00000	3.521
22 Acetonitrile	40	5.443	5.452	(0.606)	171499	4.00000	4.014
23 Acetone	58	5.502	5.509	(0.612)	214108	4.00000	3.538
24 Isopropyl alcohol	45	5.583	5.578	(0.621)	581701	4.00000	3.546
25 Pentane	72	5.615	5.605	(0.625)	72240	4.00000	3.856
26 Ethyl Ether	31	5.777	5.788	(0.643)	450708	4.00000	4.155
27 1,1-Dichloroethene	96	6.099	6.100	(0.679)	442931	4.00000	3.908
28 tert-butanol	59	6.175	6.186	(0.687)	853206	4.00000	3.793
29 Acrylonitrile	53	6.185	6.192	(0.688)	288029	4.00000	4.151
30 1,1,2-Trichlorotrifluoroethane	101	6.282	6.283	(0.699)	1089156	4.00000	3.873
31 Methylene Chloride	84	6.444	6.445	(0.717)	396135	4.00000	3.619
32 3-Chloropropene	39	6.460	6.461	(0.719)	408384	4.00000	3.010
33 Carbon Disulfide	76	6.610	6.617	(0.735)	1395586	4.00000	3.615
34 trans-1,2-Dichloroethene	96	7.261	7.257	(0.808)	530062	4.00000	3.878
35 ~ 2-Methyl Pentane	43	7.288	7.289	(0.811)	1076449	4.00000	3.740
36 Methyl-t-Butyl Ether	73	7.380	7.402	(0.821)	1344709	4.00000	4.214
37 1,1-Dichloroethane	63	7.676	7.671	(0.854)	993885	4.00000	3.882
38 Vinyl Acetate	43	7.772	7.779	(0.865)	1097292	4.00000	4.317
39 2-Butanone	72	8.213	8.220	(0.914)	165455	4.00000	3.521
40 Hexane	56	8.273	8.279	(0.920)	413810	4.00000	3.772
41 cis 1,2-Dichloroethene	96	8.660	8.656	(0.963)	498367	4.00000	3.918
42 Ethyl acetate	43	8.832	8.844	(0.983)	898895	4.00000	4.133
43 Chloroform	83	9.004	9.000	(1.002)	1329932	4.00000	3.816
44 Tetrahydrofuran	42	9.397	9.425	(1.045)	404842	4.00000	4.116
45 1,1,1-Trichloroethane	97	10.043	10.049	(1.117)	1627717	4.00000	3.896
46 1,2-Dichloroethane	62	10.139	10.135	(0.908)	1021613	4.00000	3.651
47 1-Butanol	31	10.559	10.576	(0.945)	118322	4.00000	3.152
48 Benzene	78	10.640	10.641	(0.952)	1251792	4.00000	3.501
49 Cyclohexane	69	10.650	10.646	(0.953)	233816	4.00000	3.684
50 Carbon Tetrachloride	117	10.667	10.662	(0.955)	1245249	4.00000	3.244
51 ~ 2,3-dimethylpentane	71	10.774	10.775	(0.964)	274421	4.12000	3.761
52 ~ Thiophene	84	10.903	10.904	(0.976)	756084	4.16000	3.816
53 2,2,4-trimethylpentane	57	11.409	11.421	(1.021)	2117716	4.00000	3.590
54 Heptane	71	11.780	11.781	(1.054)	417293	4.00000	3.476
55 1,2-Dichloropropane	63	11.839	11.840	(1.060)	441815	4.00000	3.598
56 Trichloroethene	130	11.888	11.883	(1.064)	712112	4.00000	3.620
180 ~ 2-nitropropane	43	11.780	11.781	(1.054)	813013	4.00000	0.000
57 Dibromomethane	93	11.958	11.959	(1.070)	710710	4.00000	3.668
58 Bromodichloromethane	83	12.103	12.109	(1.083)	1406419	4.00000	3.718
59 1,4-dioxane	88	12.103	12.120	(1.083)	153581	4.00000	3.512
60 Methyl Methacrylate	41	12.194	12.195	(1.091)	563048	4.00000	4.008
61 ~ methyl cyclohexane	83	12.668	12.669	(1.134)	806510	4.16000	3.817
62 4-Methyl-2-pentanone	43	13.039	13.051	(1.167)	735325	4.00000	3.409

Data File: /var/chem/gcms/mj.i/J052412I.b/jice247.d
Report Date: 25-May-2012 12:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	13.103	13.099	(1.173)	763050	4.00000	3.868
64	trans-1,3-Dichloropropene	75	13.792	13.793	(0.868)	834285	4.00000	3.864
65	Toluene	91	13.932	13.927	(0.876)	1470218	4.00000	3.837
66	1,1,2-Trichloroethane	83	13.996	13.997	(0.881)	447407	4.00000	3.822
67	~ 2-methyl thiophene	97	14.082	14.083	(0.886)	1297948	4.20000	4.011
68	~ 3-methyl thiophene	97	14.282	14.288	(0.898)	1250700	4.16000	3.844
69	2-Hexanone	58	14.373	14.379	(0.904)	337291	4.00000	3.328
70	Octane	85	14.631	14.627	(0.920)	468129	4.00000	3.636
71	Dibromochloromethane	129	14.701	14.697	(0.925)	1271253	4.00000	3.935
72	1,2-Dibromoethane	107	14.992	14.987	(0.943)	921817	4.00000	3.775
73	Tetrachloroethene	129	15.078	15.079	(0.949)	671877	4.00000	3.545
74	Chlorobenzene	112	15.944	15.945	(1.003)	1162906	4.00000	3.708
75	~ 2,3-dimethylheptane	43	15.976	15.982	(1.005)	1399865	4.16000	3.888
76	Ethylbenzene	91	16.234	16.241	(1.021)	1941174	4.00000	3.997
77	~ 2-ethyl thiophene	97	16.337	16.332	(1.028)	1673524	4.12000	4.121
78	m&p-Xylene	91	16.396	16.397	(1.031)	3129180	8.00000	8.095
79	Nonane	57	16.826	16.822	(1.059)	944637	4.00000	3.974
80	Bromoform	173	16.837	16.832	(1.059)	1203895	4.00000	4.152
81	Styrene	104	16.858	16.859	(1.061)	1026356	4.00000	4.196
82	o-Xylene	91	16.923	16.924	(1.065)	1608026	4.00000	4.038
M 83	Xylene (total)	100				4737207	12.0000	12.13
84	1,1,2,2-Tetrachloroethane	83	17.235	17.236	(1.084)	994849	4.00000	4.066
85	1,2,3-Trichloropropane	110	17.391	17.397	(1.094)	349216	4.00000	3.882
86	Cumene	105	17.509	17.510	(1.102)	2236497	4.00000	4.052
87	n-Propylbenzene	120	18.042	18.037	(1.135)	547516	4.00000	4.129
88	2-chlorotoluene	126	18.085	18.086	(1.138)	536228	4.00000	3.915
89	4-Ethyltoluene	105	18.192	18.188	(1.145)	2101538	4.00000	4.067
90	1,3,5-Trimethylbenzene	120	18.262	18.263	(1.149)	907915	4.00000	4.093
91	Alpha-Methylstyrene	118	18.488	18.489	(1.163)	805891	4.00000	4.350
92	Decane	57	18.558	18.554	(1.168)	1050616	4.00000	4.211
93	tert-butylbenzene	119	18.687	18.683	(1.176)	1894215	4.00000	4.027
94	1,2,4-Trimethylbenzene	105	18.698	18.699	(1.176)	1754059	4.00000	4.145
95	sec-butylbenzene	105	18.951	18.952	(1.192)	2395430	4.00000	4.190
96	1,3-Dichlorobenzene	146	18.962	18.963	(1.193)	1203918	4.00000	3.928
97	Benzyl Chloride	91	19.037	19.032	(1.198)	1566704	4.00000	4.157
98	1,4-Dichlorobenzene	146	19.048	19.049	(1.198)	1126243	4.00000	3.765
99	p-Cymene	119	19.112	19.113	(1.202)	2009790	4.00000	4.133
100	~ 1,2,3-Trimethylbenzene	105	19.166	19.167	(1.206)	1442315	4.16000	4.214
101	~ n-butylcyclohexane	83	19.225	19.226	(1.209)	1167788	4.12000	4.190
102	~ Indane	117	19.408	19.404	(1.221)	1432291	4.12000	4.086
103	1,2-Dichlorobenzene	146	19.408	19.404	(1.221)	1092700	4.00000	3.884
104	n-butylbenzene	91	19.543	19.544	(1.229)	1836331	4.00000	4.063
105	~ Indene	116	19.537	19.538	(1.229)	1073275	4.20000	4.348
106	Undecane	57	19.855	19.856	(1.249)	1018856	4.00000	4.002
107	~ 1,2-dimethyl-4-ethylenzene	119	19.914	19.915	(1.253)	1610107	4.12000	4.131
108	~ 1,2,4,5-tetramethylbenzene	119	20.296	20.297	(1.277)	1546898	4.12000	4.122
109	~ 1,2,3,5-tetramethylbenzene	119	20.350	20.350	(1.280)	1179400	4.20000	4.248

Data File: /var/chem/gcms/mj.i/J052412I.b/jice247.d
Report Date: 25-May-2012 12:36

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.758	20.754	(1.306)	1166858	4.08000	3.960
111 Dodecane	57	20.925	20.926	(1.316)	582666	4.00000	3.469
112 1,2,4-Trichlorobenzene	180	21.124	21.120	(1.329)	656544	4.00000	3.899
113 Napthalene	128	21.269	21.265	(1.338)	1115569	4.00000	3.798
114 ~ benzo(b) thiophene	134	21.377	21.378	(1.345)	596333	4.08000	3.692
115 Hexachlorobutadiene	225	21.490	21.491	(1.352)	949031	4.00000	4.084
116 1,2,3-trichlorobenzene	180	21.560	21.555	(1.356)	457326	4.00000	3.913
117 ~ 2-Methylnaphthalene	142	22.270	22.271	(1.401)	392700	25.0000	22.58(A)
118 ~ 1-Methylnaphthalene	142	22.415	22.411	(1.410)	366697	25.0000	21.95(A)

QC Flag Legend

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

Data File: /var/chem/gcms/mj.i/J052412I.b/jice247.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

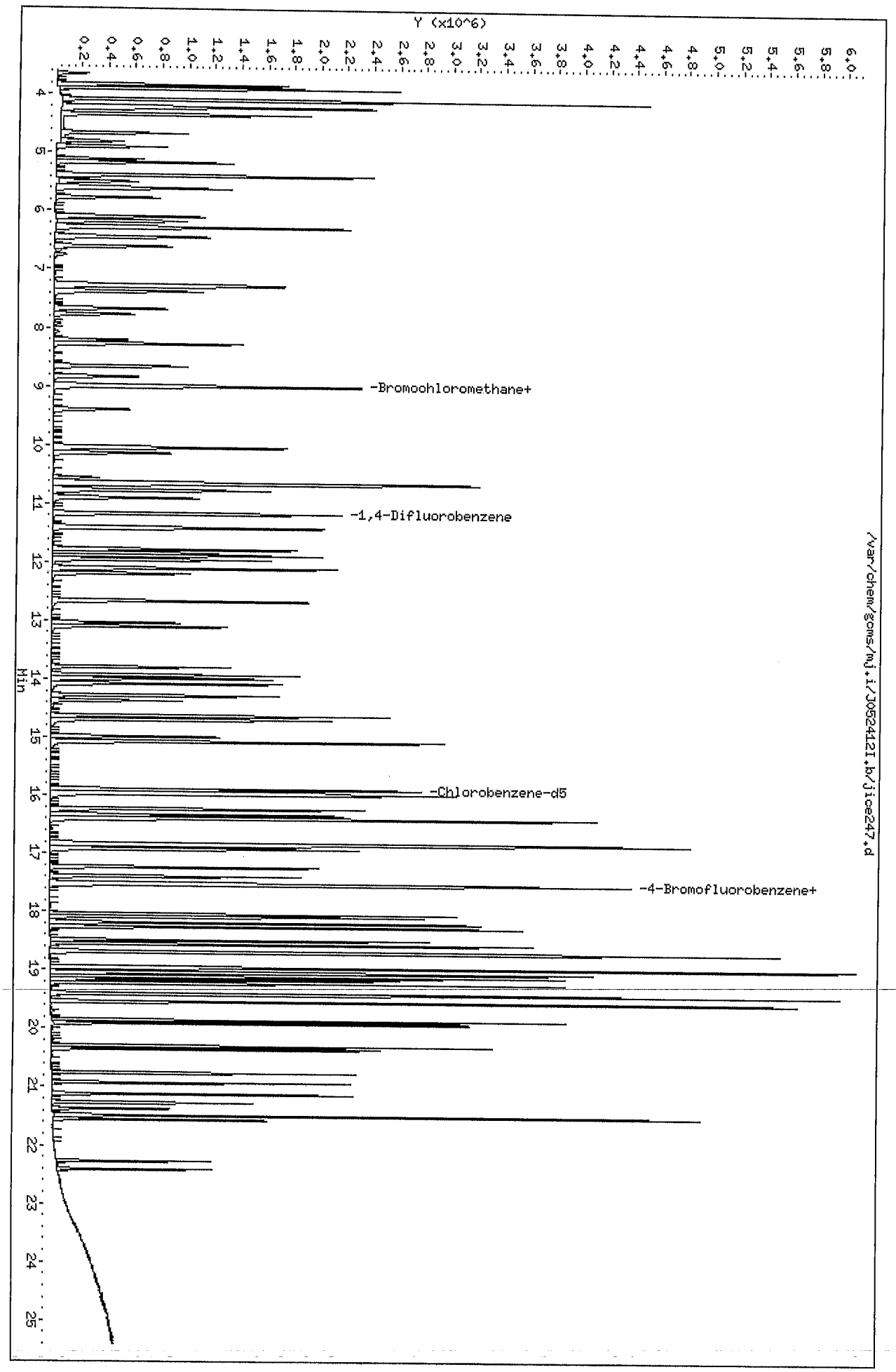
Instrument ID: mj.i
Lab File ID: jice247.d
Lab Smp Id: ICAL7
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Calibration Date: 24-MAY-2012
Calibration Time: 18:13
Client Smp ID: STD 4
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	427058	254100	600016	432962	1.38
2 1,4-Difluorobenze	1783321	1061076	2505566	1906043	6.88
3 Chlorobenzene-d5	1569169	933656	2204682	1677564	6.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.99	-0.01
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.04
3 Chlorobenzene-d5	15.90	15.57	16.23	15.90	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /var/chem/gcms/mj.i/J0524121.b/jice247.d
Date : 24-MAY-2012 19:10
Client ID: STD 4
Sample Info: ICAL7,1,7,STD 4
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
Min
/var/chem/gcms/mj.i/J0524121.b/jice247.d
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene+

Data File: /var/chem/gcms/mj.i/J052412I.b/jice248.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J052412I.b/jice248.d
Lab Smp Id: ICAL8 Client Smp ID: STD 8
Inj Date : 24-MAY-2012 20:07
Operator : 7126 Inst ID: mj.i
Smp Info : ICAL8,,1,8,,STD 8
Misc Info : J052412I,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Meth Date : 25-May-2012 12:36 tajh Quant Type: ISTD
Cal Date : 24-MAY-2012 20:07 Cal File: jice248.d
Als bottle: 6 Calibration Sample, Level: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.992	8.989	(1.000)	444817	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.176	11.173	(1.000)	1907976	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.899	15.896	(1.000)	1691435	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.534	17.537	(1.103)	1325812	4.00000	3.970
	5 Chlorodifluoromethane	67	3.838	3.836	(0.427)	485748	8.00000	7.252
	6 Propene	41	3.849	3.846	(0.428)	913066	8.00000	7.127
	7 Dichlorodifluoromethane	85	3.903	3.905	(0.434)	4497638	8.00000	7.286
	8 Chloromethane	52	4.080	4.078	(0.454)	331737	8.00000	7.510
	9 1,2-Dichlorotetrafluoroethane	135	4.091	4.088	(0.455)	3017702	8.00000	7.437
	10 Methanol	31	4.215	4.212	(0.469)	3793280	8.00000	7.611
	11 ~ acetaldehyde	44	4.231	4.234	(0.471)	465692	40.4800	11.31
	12 Vinyl Chloride	62	4.252	4.255	(0.473)	1228626	8.00000	7.157
	13 n-Butane	43	4.344	4.341	(0.483)	1494579	8.00000	7.395
	14 1,3-Butadiene	54	4.344	4.347	(0.483)	833084	8.00000	7.271
	15 Bromomethane	94	4.667	4.675	(0.519)	1381555	8.00000	7.318
	16 Chloroethane	64	4.807	4.809	(0.535)	560452	8.00000	7.428

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
17 ~ ethanol	31	4.903	4.895	(0.545)	1538525	41.7600	37.78
18 Vinyl Bromide	106	5.119	5.110	(0.569)	1023805	8.00000	7.699
19 2-methyl butane	43	5.172	5.180	(0.575)	1110341	8.00000	7.002
20 Trichlorofluoromethane	101	5.393	5.390	(0.600)	4312325	8.00000	7.374
21 Acrolein	56	5.388	5.390	(0.599)	306996	8.00000	7.797
22 Acetonitrile	40	5.452	5.452	(0.606)	344395	8.00000	7.847
23 Acetone	58	5.500	5.509	(0.612)	362568	8.00000	5.831
24 Isopropyl alcohol	45	5.587	5.578	(0.621)	1288268	8.00000	7.643
25 Pentane	72	5.619	5.605	(0.625)	152633	8.00000	7.930
26 Ethyl Ether	31	5.775	5.788	(0.642)	932539	8.00000	8.367
27 1,1-Dichloroethene	96	6.103	6.100	(0.679)	902006	8.00000	7.747
28 tert-butanol	59	6.178	6.186	(0.687)	1843274	8.00000	7.975
29 Acrylonitrile	53	6.189	6.192	(0.688)	626536	8.00000	8.788
30 1,1,2-Trichlorotrifluoroethane	101	6.286	6.283	(0.699)	2228887	8.00000	7.715
31 Methylene Chloride	84	6.442	6.445	(0.716)	822132	8.00000	7.311
32 3-Chloropropene	39	6.463	6.461	(0.719)	1097776	8.00000	7.875
33 Carbon Disulfide	76	6.614	6.617	(0.736)	2853406	8.00000	7.194
34 trans-1,2-Dichloroethene	96	7.260	7.257	(0.807)	1094171	8.00000	7.791
35 ~ 2-Methyl Pentane	43	7.292	7.289	(0.811)	2185556	8.00000	7.390
36 Methyl-t-Butyl Ether	73	7.383	7.402	(0.821)	2843736	8.00000	8.674
37 1,1-Dichloroethane	63	7.674	7.671	(0.853)	2022301	8.00000	7.688
38 Vinyl Acetate	43	7.776	7.779	(0.865)	2376184	8.00000	9.100
39 2-Butanone	72	8.212	8.220	(0.913)	362517	8.00000	7.509
40 Hexane	56	8.276	8.279	(0.920)	848608	8.00000	7.530
41 cis 1,2-Dichloroethene	96	8.664	8.656	(0.964)	1017098	8.00000	7.782
42 Ethyl acetate	43	8.836	8.844	(0.983)	1981426	8.00000	8.867
43 Chloroform	83	9.008	9.000	(1.002)	2672471	8.00000	7.465
44 Tetrahydrofuran	42	9.395	9.425	(1.045)	881724	8.00000	8.726
45 1,1,1-Trichloroethane	97	10.046	10.049	(1.117)	3295937	8.00000	7.678
46 1,2-Dichloroethane	62	10.138	10.135	(0.907)	2097016	8.00000	7.487
47 1-Butanol	31	10.563	10.576	(0.945)	298309	8.00000	7.938
48 Benzene	78	10.638	10.641	(0.952)	2678144	8.00000	7.479
49 Cyclohexane	69	10.654	10.646	(0.953)	483969	8.00000	7.618
50 Carbon Tetrachloride	117	10.670	10.662	(0.955)	2750659	8.00000	7.158
51 ~ 2,3-dimethylpentane	71	10.778	10.775	(0.964)	552484	8.24000	7.564
52 ~ Thiophene	84	10.907	10.904	(0.976)	1535975	8.32000	7.743
53 2,2,4-trimethylpentane	57	11.413	11.421	(1.021)	4278104	8.00000	7.246
54 Heptane	71	11.784	11.781	(1.054)	868329	8.00000	7.227
55 1,2-Dichloropropane	63	11.843	11.840	(1.060)	945127	8.00000	7.688
56 Trichloroethene	130	11.886	11.883	(1.064)	1447152	8.00000	7.348
180 ~ 2-nitropropane	43	11.784	11.781	(1.054)	1670060	8.00000	0.000
57 Dibromomethane	93	11.961	11.959	(1.070)	1459027	8.00000	7.522
58 Bromodichloromethane	83	12.106	12.109	(1.083)	2901486	8.00000	7.663
59 1,4-dioxane	88	12.106	12.120	(1.083)	359937	8.00000	8.222
60 Methyl Methacrylate	41	12.198	12.195	(1.091)	1261755	8.00000	8.973
61 ~ methyl cyclohexane	83	12.666	12.669	(1.133)	1641341	8.32000	7.761
62 4-Methyl-2-pentanone	43	13.037	13.051	(1.167)	1663320	8.00000	7.702

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
	63 cis-1,3-Dichloropropene	75	13.107	13.099	(1.173)	1623017	8.00000	8.219
	64 trans-1,3-Dichloropropene	75	13.796	13.793	(0.868)	1868995	8.00000	8.586
	65 Toluene	91	13.935	13.927	(0.876)	3135438	8.00000	8.116
	66 1,1,2-Trichloroethane	83	13.995	13.997	(0.880)	947499	8.00000	8.028
	67 ~ 2-methyl thiophene	97	14.086	14.083	(0.886)	2779447	8.40000	8.519
	68 ~ 3-methyl thiophene	97	14.285	14.288	(0.898)	2772027	8.32000	8.450
	69 2-Hexanone	58	14.377	14.379	(0.904)	758063	8.00000	7.419
	70 Octane	85	14.629	14.627	(0.920)	1013332	8.00000	7.806
	71 Dibromochloromethane	129	14.699	14.697	(0.925)	2737217	8.00000	8.403
	72 1,2-Dibromoethane	107	14.990	14.987	(0.943)	1975984	8.00000	8.025
	73 Tetrachloroethene	129	15.076	15.079	(0.948)	1414400	8.00000	7.402
	74 Chlorobenzene	112	15.947	15.945	(1.003)	2475930	8.00000	7.831
	75 ~ 2,3-dimethylheptane	43	15.980	15.982	(1.005)	2856145	8.32000	7.868
	76 Ethylbenzene	91	16.238	16.241	(1.021)	4117718	8.00000	8.410
	77 ~ 2-ethyl thiophene	97	16.340	16.332	(1.028)	3568805	8.24000	8.716
	78 m&p-Xylene	91	16.399	16.397	(1.031)	6622166	16.0000	16.99
	79 Nonane	57	16.824	16.822	(1.058)	2044083	8.00000	8.528
	80 Bromoform	173	16.840	16.832	(1.059)	2677181	8.00000	9.157
	81 Styrene	104	16.862	16.859	(1.061)	2294317	8.00000	9.303
	82 o-Xylene	91	16.926	16.924	(1.065)	3354637	8.00000	8.355
M	83 Xylene (total)	100				9976803	24.0000	25.34
	84 1,1,2,2-Tetrachloroethane	83	17.238	17.236	(1.084)	2126635	8.00000	8.621
	85 1,2,3-Trichloropropane	110	17.394	17.397	(1.094)	744429	8.00000	8.206
	86 Cumene	105	17.513	17.510	(1.101)	4670748	8.00000	8.393
	87 n-Propylbenzene	120	18.045	18.037	(1.135)	1194389	8.00000	8.934
	88 2-chlorotoluene	126	18.088	18.086	(1.138)	1156915	8.00000	8.377
	89 4-Ethyltoluene	105	18.191	18.188	(1.144)	4509129	8.00000	8.655
	90 1,3,5-Trimethylbenzene	120	18.266	18.263	(1.149)	1987292	8.00000	8.885
	91 Alpha-Methylstyrene	118	18.492	18.489	(1.163)	1829793	8.00000	9.796
	92 Decane	57	18.556	18.554	(1.167)	2288259	8.00000	9.096
	93 tert-butylbenzene	119	18.686	18.683	(1.175)	4095234	8.00000	8.636
	94 1,2,4-Trimethylbenzene	105	18.702	18.699	(1.176)	3819155	8.00000	8.951
	95 sec-butylbenzene	105	18.955	18.952	(1.192)	5147081	8.00000	8.929
	96 1,3-Dichlorobenzene	146	18.965	18.963	(1.193)	2682921	8.00000	8.681
	97 Benzyl Chloride	91	19.035	19.032	(1.197)	3496466	8.00000	9.202
	98 1,4-Dichlorobenzene	146	19.051	19.049	(1.198)	2514472	8.00000	8.337
	99 p-Cymene	119	19.116	19.113	(1.202)	4318085	8.00000	8.808
	100 ~ 1,2,3- Trimethylbenzene	105	19.170	19.167	(1.206)	3039062	8.32000	8.806
	101 ~ n-butylcyclohexane	83	19.229	19.226	(1.209)	2471957	8.24000	8.797
	102 ~ Indane	117	19.412	19.404	(1.221)	3165706	8.24000	8.957
	103 1,2-Dichlorobenzene	146	19.412	19.404	(1.221)	2435320	8.00000	8.585
	104 n-butylbenzene	91	19.546	19.544	(1.229)	3998550	8.00000	8.774
	105 ~ Indene	116	19.541	19.538	(1.229)	2471726	8.40000	9.932
	106 Undecane	57	19.858	19.856	(1.249)	2345556	8.00000	9.137
	107 ~ 1,2-dimethyl-4-ethylenzene	119	19.912	19.915	(1.252)	3531931	8.24000	8.988
	108 ~ 1,2,4,5-tetramethylbenzene	119	20.294	20.297	(1.276)	3470946	8.24000	9.172
	109 ~ 1,2,3,5-tetramethylbenzene	119	20.353	20.350	(1.280)	2663748	8.40000	9.516

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.757	20.754	(1.306)	2654042	8.16000	8.932
111 Dodecane	57	20.923	20.926	(1.316)	1470848	8.00000	8.686
112 1,2,4-Trichlorobenzene	180	21.122	21.120	(1.329)	1444541	8.00000	8.509
113 Napthalene	128	21.268	21.265	(1.338)	2512282	8.00000	8.483
114 ~ benzo(b) thiophene	134	21.375	21.378	(1.344)	1320037	8.16000	8.106
115 Hexachlorobutadiene	225	21.494	21.491	(1.352)	1991188	8.00000	8.500
116 1,2,3-trichlorobenzene	180	21.558	21.555	(1.356)	944014	8.00000	8.032
117 ~ 2-Methylnaphthalene	142	22.274	22.271	(1.401)	814579	50.0000	46.46(A)
118 ~ 1-Methylnaphthalene	142	22.414	22.411	(1.410)	727791	50.0000	43.21(A)

QC Flag Legend

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

Data File: /var/chem/gcms/mj.i/J052412I.b/jice248.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jice248.d
Lab Smp Id: ICAL8
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Calibration Date: 24-MAY-2012
Calibration Time: 18:13
Client Smp ID: STD 8
Level: LOW
Sample Type: AIR

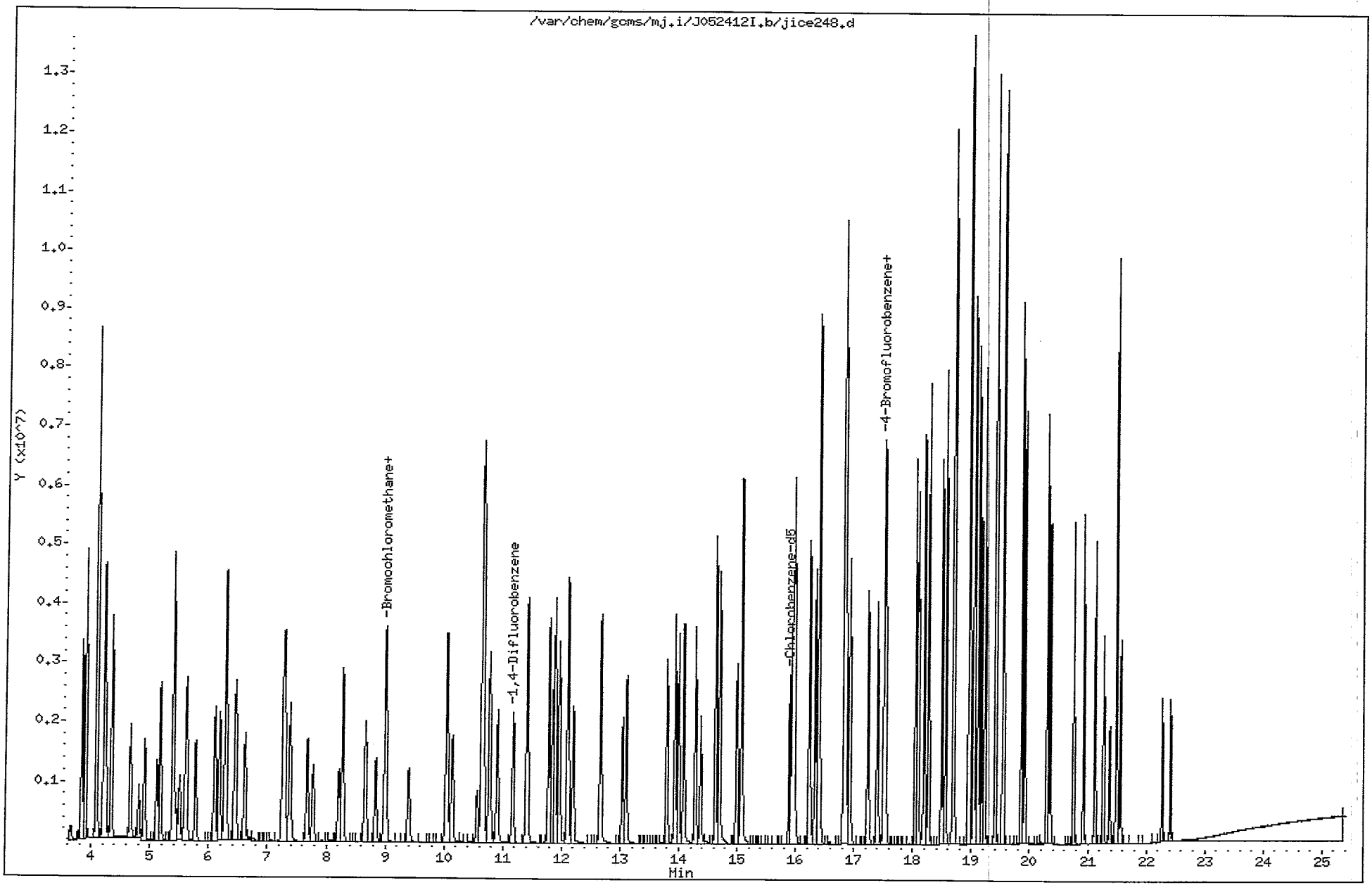
COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	427058	254100	600016	444817	4.16
2 1,4-Difluorobenze	1783321	1061076	2505566	1907976	6.99
3 Chlorobenzene-d5	1569169	933656	2204682	1691435	7.79

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.99	0.03
2 1,4-Difluorobenze	11.17	10.84	11.50	11.18	0.07
3 Chlorobenzene-d5	15.90	15.57	16.23	15.90	0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J052412I.b/jice248.d
Date : 24-MAY-2012 20:07
Client ID: STD 8
Sample Info: ICAL8,,1,8,,STD 8
Purge Volume: 200.0
Column phase: Rtx-5

Instrument: mj.i
Operator: 7126
Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J052412I.b/jice249.d
Report Date: 25-May-2012 12:36

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J052412I.b/jice249.d
Lab Smp Id: ICAL9 Client Smp ID: STD 16
Inj Date : 24-MAY-2012 21:04
Operator : 7126 Inst ID: mj.i
Smp Info : ICAL9,,1,9,,STD 16
Misc Info : J052412I,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Meth Date : 25-May-2012 12:36 tajh Quant Type: ISTD
Cal Date : 24-MAY-2012 21:04 Cal File: jice249.d
Als bottle: 7 Calibration Sample, Level: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
* 1	Bromochloromethane	128	8.996	8.989	(1.000)	456156	4.00000	4.000
* 2	1,4-Difluorobenzene	114	11.175	11.173	(1.000)	1906361	4.00000	4.000
* 3	Chlorobenzene-d5	117	15.898	15.896	(1.000)	1738989	4.00000	4.000
$ 4	4-Bromofluorobenzene	95	17.539	17.537	(1.103)	1364106	4.00000	3.974
5	Chlorodifluoromethane	67	3.837	3.836	(0.427)	963356	16.0000	14.02
6	Propene	41	3.848	3.846	(0.428)	1792498	16.0000	13.64
7	Dichlorodifluoromethane	85	3.902	3.905	(0.434)	8415227	16.0000	13.29
8	Chloromethane	52	4.079	4.078	(0.453)	673541	16.0000	14.87
9	1,2-Dichlorotetrafluoroethane	135	4.090	4.088	(0.455)	6006454	16.0000	14.44
10	Methanol	31	4.219	4.212	(0.469)	7075569	16.0000	13.84
11	~ acetaldehyde	44	4.230	4.234	(0.470)	1016119	80.9600	24.06
12	Vinyl Chloride	62	4.257	4.255	(0.473)	2486811	16.0000	14.12
13	n-Butane	43	4.343	4.341	(0.483)	2965725	16.0000	14.31
14	1,3-Butadiene	54	4.343	4.347	(0.483)	1692839	16.0000	14.41
15	Bromomethane	94	4.666	4.675	(0.519)	2812553	16.0000	14.53
16	Chloroethane	64	4.811	4.809	(0.535)	1121624	16.0000	14.50

Data File: /var/chem/gcms/mj.i/J052412I.b/jice249.d
Report Date: 25-May-2012 12:36

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
17	~ ethanol	31	4.913	4.895	(0.546)	2884959	83.5300	69.09
18	Vinyl Bromide	106	5.117	5.110	(0.569)	2108107	16.0000	15.46
19	2-methyl butane	43	5.171	5.180	(0.575)	2240312	16.0000	13.78
20	Trichlorofluoromethane	101	5.392	5.390	(0.599)	8405616	16.0000	14.02
21	Acrolein	56	5.386	5.390	(0.599)	640290	16.0000	15.86
22	Acetonitrile	40	5.451	5.452	(0.606)	708576	16.0000	15.74
23	Acetone	58	5.505	5.509	(0.612)	769795	16.0000	12.07
24	Isopropyl alcohol	45	5.596	5.578	(0.622)	2398449	16.0000	13.88
25	Pentane	72	5.623	5.605	(0.625)	311966	16.0000	15.80
26	Ethyl Ether	31	5.774	5.788	(0.642)	1890037	16.0000	16.54(A)
27	1,1-Dichloroethene	96	6.102	6.100	(0.678)	1842570	16.0000	15.43
28	tert-butanol	59	6.183	6.186	(0.687)	3547881	16.0000	14.97
29	Acrylonitrile	53	6.188	6.192	(0.688)	1304976	16.0000	17.85(A)
30	1,1,2-Trichlorotrifluoroethane	101	6.285	6.283	(0.699)	4503758	16.0000	15.20
31	Methylene Chloride	84	6.446	6.445	(0.717)	1655049	16.0000	14.35
32	3-Chloropropene	39	6.468	6.461	(0.719)	2135483	16.0000	14.94
33	Carbon Disulfide	76	6.613	6.617	(0.735)	5678564	16.0000	13.96
34	trans-1,2-Dichloroethene	96	7.264	7.257	(0.807)	2267221	16.0000	15.74
35	~ 2-Methyl Pentane	43	7.296	7.289	(0.811)	4325951	16.0000	14.26
36	Methyl-t-Butyl Ether	73	7.382	7.402	(0.821)	5744090	16.0000	17.08(A)
37	1,1-Dichloroethane	63	7.678	7.671	(0.853)	4033447	16.0000	14.95
38	Vinyl Acetate	43	7.780	7.779	(0.865)	4812349	16.0000	17.97(A)
39	2-Butanone	72	8.216	8.220	(0.913)	761386	16.0000	15.38
40	Hexane	56	8.275	8.279	(0.920)	1718545	16.0000	14.87
41	cis 1,2-Dichloroethene	96	8.668	8.656	(0.964)	2077233	16.0000	15.50
42	Ethyl acetate	43	8.840	8.844	(0.983)	4059954	16.0000	17.72(A)
43	Chloroform	83	9.012	9.000	(1.002)	5335860	16.0000	14.53
44	Tetrahydrofuran	42	9.400	9.425	(1.045)	1810801	16.0000	17.48(A)
45	1,1,1-Trichloroethane	97	10.045	10.049	(1.117)	6413009	16.0000	14.57
46	1,2-Dichloroethane	62	10.142	10.135	(0.908)	4148259	16.0000	14.82
47	1-Butanol	31	10.567	10.576	(0.946)	533519	16.0000	14.21
48	Benzene	78	10.642	10.641	(0.952)	5518475	16.0000	15.42
49	Cyclohexane	69	10.658	10.646	(0.954)	982551	16.0000	15.48
50	Carbon Tetrachloride	117	10.669	10.662	(0.955)	6040683	16.0000	15.73
51	~ 2,3-dimethylpentane	71	10.777	10.775	(0.964)	1138693	16.4800	15.60
52	~ Thiophene	84	10.911	10.904	(0.976)	3185445	16.6400	16.07(A)
53	2,2,4-trimethylpentane	57	11.417	11.421	(1.022)	8631023	16.0000	14.63
54	Heptane	71	11.788	11.781	(1.055)	1831436	16.0000	15.26
55	1,2-Dichloropropane	63	11.847	11.840	(1.060)	2003053	16.0000	16.31(A)
56	Trichloroethene	130	11.890	11.883	(1.064)	3054363	16.0000	15.52
180	~ 2-nitropropane	43	11.788	11.781	(1.055)	3418078	16.0000	0.000
57	Dibromomethane	93	11.966	11.959	(1.071)	2986648	16.0000	15.41
58	Bromodichloromethane	83	12.111	12.109	(1.084)	5864328	16.0000	15.50
59	1,4-dioxane	88	12.111	12.120	(1.084)	725859	16.0000	16.59(A)
60	Methyl Methacrylate	41	12.202	12.195	(1.092)	2615359	16.0000	18.62(A)
61	~ methyl cyclohexane	83	12.670	12.669	(1.134)	3326308	16.6400	15.74
62	4-Methyl-2-pentanone	43	13.041	13.051	(1.167)	3437237	16.0000	15.93

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	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	13.111	13.099	(1.173)	3458953	16.0000	17.53(A)
64	trans-1,3-Dichloropropene	75	13.800	13.793	(0.868)	3952727	16.0000	17.66(A)
65	Toluene	91	13.934	13.927	(0.876)	6611605	16.0000	16.64(A)
66	1,1,2-Trichloroethane	83	13.999	13.997	(0.881)	2022200	16.0000	16.66(A)
67	~ 2-methyl thiophene	97	14.090	14.083	(0.886)	5889326	16.8000	17.56(A)
68	~ 3-methyl thiophene	97	14.290	14.288	(0.899)	5905564	16.6400	17.51(A)
69	2-Hexanone	58	14.376	14.379	(0.904)	1560886	16.0000	14.86
70	Octane	85	14.634	14.627	(0.920)	2185003	16.0000	16.37(A)
71	Dibromochloromethane	129	14.704	14.697	(0.925)	5786622	16.0000	17.28(A)
72	1,2-Dibromoethane	107	14.994	14.987	(0.943)	4227489	16.0000	16.70(A)
73	Tetrachloroethene	129	15.080	15.079	(0.949)	3069696	16.0000	15.63
74	Chlorobenzene	112	15.952	15.945	(1.003)	5443733	16.0000	16.75(A)
75	~ 2,3-dimethylheptane	43	15.984	15.982	(1.005)	5743012	16.6400	15.39
76	Ethylbenzene	91	16.242	16.241	(1.022)	8571955	16.0000	17.03(A)
77	~ 2-ethyl thiophene	97	16.339	16.332	(1.028)	7457170	16.4800	17.71(A)
78	m&p-Xylene	91	16.404	16.397	(1.032)	13525809	32.0000	33.75(A)
79	Nonane	57	16.829	16.822	(1.059)	4393046	16.0000	17.83(A)
80	Bromoform	173	16.839	16.832	(1.059)	6164545	16.0000	20.51(A)
81	Styrene	104	16.861	16.859	(1.061)	5080336	16.0000	20.04(A)
82	o-Xylene	91	16.925	16.924	(1.065)	6909965	16.0000	16.74(A)
M 83	Xylene (total)	100				20435774	48.0000	50.49
84	1,1,2,2-Tetrachloroethane	83	17.237	17.236	(1.084)	4537351	16.0000	17.89(A)
85	1,2,3-Trichloropropane	110	17.399	17.397	(1.094)	1578124	16.0000	16.92(A)
86	Cumene	105	17.512	17.510	(1.101)	9606115	16.0000	16.79(A)
87	n-Propylbenzene	120	18.044	18.037	(1.135)	2668983	16.0000	19.42(A)
88	2-chlorotoluene	126	18.087	18.086	(1.138)	2537855	16.0000	17.87(A)
89	4-Ethyltoluene	105	18.195	18.188	(1.144)	9406413	16.0000	17.56(A)
90	1,3,5-Trimethylbenzene	120	18.270	18.263	(1.149)	4420483	16.0000	19.22(A)
91	Alpha-Methylstyrene	118	18.491	18.489	(1.163)	3979542	16.0000	20.72(A)
92	Decane	57	18.561	18.554	(1.167)	4882490	16.0000	18.88(A)
93	tert-butylbenzene	119	18.690	18.683	(1.176)	8754910	16.0000	17.96(A)
94	1,2,4-Trimethylbenzene	105	18.701	18.699	(1.176)	7964399	16.0000	18.16(A)
95	sec-butylbenzene	105	18.959	18.952	(1.193)	10605936	16.0000	17.90(A)
96	1,3-Dichlorobenzene	146	18.964	18.963	(1.193)	6170635	16.0000	19.42(A)
97	Benzyl Chloride	91	19.040	19.032	(1.198)	7504699	16.0000	19.21(A)
98	1,4-Dichlorobenzene	146	19.056	19.049	(1.199)	5683354	16.0000	18.33(A)
99	p-Cymene	119	19.115	19.113	(1.202)	8791272	16.0000	17.44(A)
100	~ 1,2,3-Trimethylbenzene	105	19.169	19.167	(1.206)	6248810	16.6400	17.61(A)
101	~ n-butylcyclohexane	83	19.228	19.226	(1.209)	5278548	16.4800	18.27(A)
102	~ Indane	117	19.411	19.404	(1.221)	6933375	16.4800	19.08(A)
103	1,2-Dichlorobenzene	146	19.411	19.404	(1.221)	5513678	16.0000	18.90(A)
104	n-butylbenzene	91	19.545	19.544	(1.229)	8289425	16.0000	17.69(A)
105	~ Indene	116	19.540	19.538	(1.229)	5519502	16.8000	21.57(A)
106	Undecane	57	19.857	19.856	(1.249)	5100359	16.0000	19.32(A)
107	~ 1,2-dimethyl-4-ethylenzene	119	19.911	19.915	(1.252)	7317028	16.4800	18.11(A)
108	~ 1,2,4,5-tetramethylbenzene	119	20.298	20.297	(1.277)	7239035	16.4800	18.61(A)
109	~ 1,2,3,5-tetramethylbenzene	119	20.352	20.350	(1.280)	5539115	16.8000	19.25(A)

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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.756	20.754	(1.306)	5506903	16.3200	18.03(A)
111 Dodecane	57	20.928	20.926	(1.316)	3600147	16.0000	20.68(A)
112 1,2,4-Trichlorobenzene	180	21.121	21.120	(1.329)	3087175	16.0000	17.69(A)
113 Napthalene	128	21.267	21.265	(1.338)	5065320	16.0000	16.64(A)
114 ~ benzo(b) thiophene	134	21.374	21.378	(1.344)	2692000	16.3200	16.08(A)
115 Hexachlorobutadiene	225	21.493	21.491	(1.352)	4284069	16.0000	17.79(A)
116 1,2,3-trichlorobenzene	180	21.557	21.555	(1.356)	1923707	16.0000	15.99
117 ~ 2-Methylnaphthalene	142	22.273	22.271	(1.401)	1795887	100.000	99.63(A)
118 ~ 1-Methylnaphthalene	142	22.412	22.411	(1.410)	1634450	100.000	94.38(A)

QC Flag Legend

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

Data File: /var/chem/gcms/mj.i/J052412I.b/jice249.d
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TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

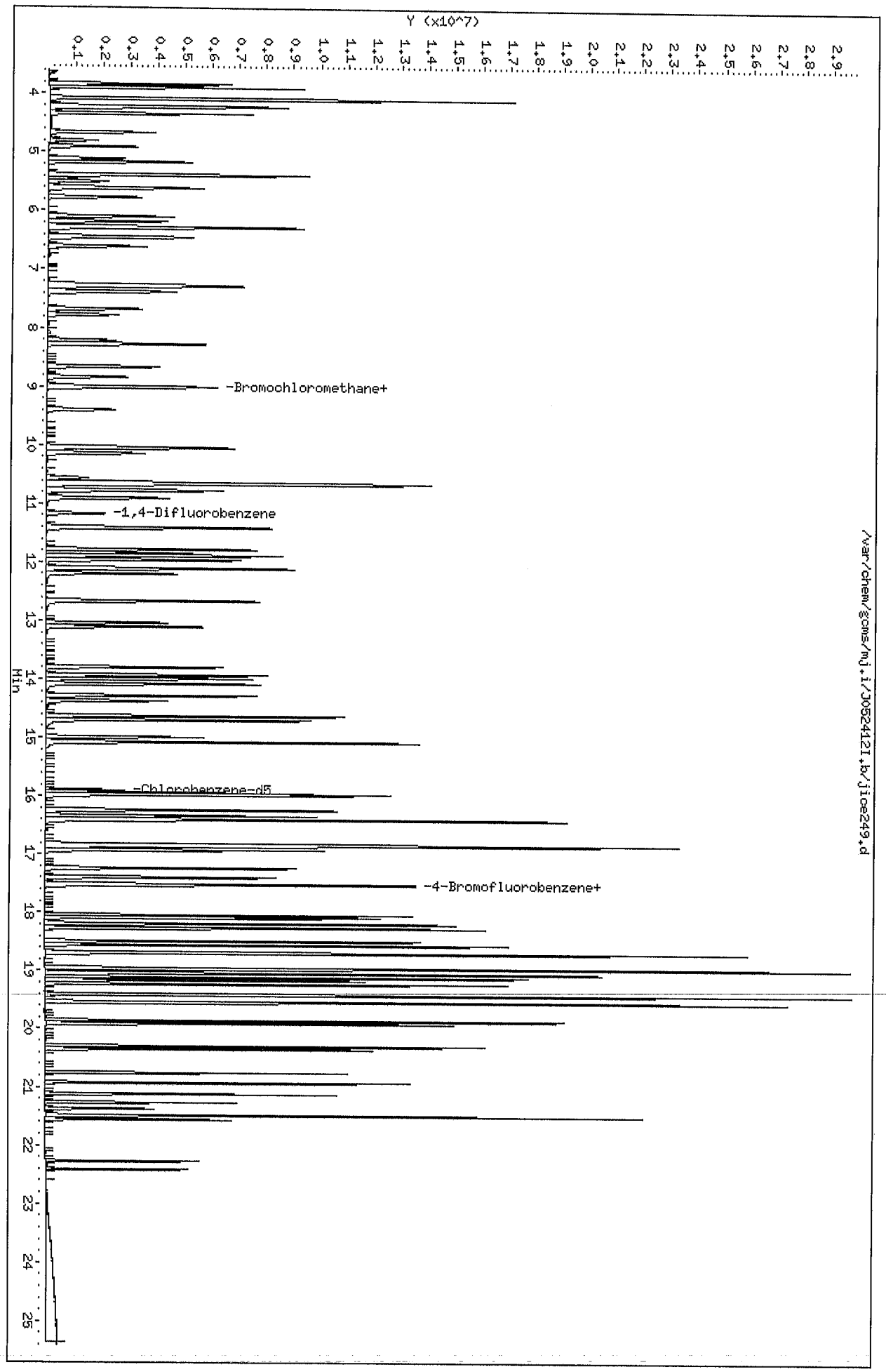
Instrument ID: mj.i
Lab File ID: jice249.d
Lab Smp Id: ICAL9
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Calibration Date: 24-MAY-2012
Calibration Time: 18:13
Client Smp ID: STD 16
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	427058	254100	600016	456156	6.81
2 1,4-Difluorobenze	1783321	1061076	2505566	1906361	6.90
3 Chlorobenzene-d5	1569169	933656	2204682	1738989	10.82

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	9.00	0.08
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.06
3 Chlorobenzene-d5	15.90	15.57	16.23	15.90	0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.


Data File: /var/chem/gcms/mj.i/J052412I.b/jice249.d
Date : 24-MAY-2012 21:04
Client ID: STD 16
Sample Info: ICAL9,1,9,STD 16
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^7)
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
-4-Bromofluorobenzene+
/var/chem/gcms/mj.i/J052412I.b/jice249.d
Min

Data File: /var/chem/gcms/mj.i/J052412I.b/jicve24.d
Report Date: 25-May-2012 12:37

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J052412I.b/jicve24.d
Lab Smp Id: ICV Client Smp ID: LCS
Inj Date : 24-MAY-2012 22:54
Operator : 7126 Inst ID: mj.i
Smp Info : ICV,,3,,,LCS
Misc Info : J052412I,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J052412I.b/TO15.m
Meth Date : 25-May-2012 12:36 tajh Quant Type: ISTD
Cal Date : 24-MAY-2012 13:43 Cal File: jice241.d
Als bottle: 8 QC Sample: 2ND SOURCE
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.989	8.989	(1.000)	431996	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.173	11.173	(1.000)	1866577	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.896	15.896	(1.000)	1741691	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.537	17.537	(1.103)	1351215	3.92984	9.825
	5 Chlorodifluoromethane	67	3.835	3.836	(0.427)	139290	2.14126	5.353
	6 Propene	41	3.851	3.846	(0.428)	252943	2.03288	5.082
	7 Dichlorodifluoromethane	85	3.900	3.905	(0.434)	1285141	2.14372	5.359
	8 Chloromethane	52	4.082	4.078	(0.454)	94673	2.20686	5.517
	9 1,2-Dichlorotetrafluoroethane	135	4.093	4.088	(0.455)	837777	2.12605	5.315
	11 ~ acetaldehyde	44	4.233	4.234	(0.471)	389162	9.72846	24.32
	12 Vinyl Chloride	62	4.255	4.255	(0.473)	344968	2.06908	5.173
	13 n-Butane	43	4.346	4.341	(0.484)	448768	2.28646	5.716
	14 1,3-Butadiene	54	4.346	4.347	(0.484)	245758	2.20850	5.521
	15 Bromomethane	94	4.669	4.675	(0.519)	367299	2.00342	5.008
	16 Chloroethane	64	4.809	4.809	(0.535)	152131	2.07613	5.190

Data File: /var/chem/gcms/mj.i/J052412I.b/jicve24.d
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Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
17 ~ ethanol	31	4.895	4.895	(0.545)	400445	10.1259	25.31
18 Vinyl Bromide	106	5.115	5.110	(0.569)	287687	2.22751	5.569
19 2-methyl butane	43	5.175	5.180	(0.576)	310864	2.01858	5.046
20 Trichlorofluoromethane	101	5.395	5.390	(0.600)	1190334	2.09594	5.240
21 Acrolein	56	5.384	5.390	(0.599)	66708	1.74446	4.361
22 Acetonitrile	40	5.443	5.452	(0.606)	84509	1.98265	4.957
23 Acetone	58	5.503	5.509	(0.612)	91557	1.51627	3.791
24 Isopropyl alcohol	45	5.583	5.578	(0.621)	279183	1.70558	4.264
25 Pentane	72	5.616	5.605	(0.625)	39310	2.10292	5.257
26 Ethyl Ether	31	5.777	5.788	(0.643)	226526	2.09289	5.232
27 1,1-Dichloroethene	96	6.100	6.100	(0.679)	281868	2.49269	6.232
28 tert-butanol	59	6.175	6.186	(0.687)	397505	1.77096	4.427
29 Acrylonitrile	53	6.186	6.192	(0.688)	150356	2.17163	5.429
30 1,1,2-Trichlorotrifluoroethane	101	6.283	6.283	(0.699)	697051	2.48436	6.211
31 Methylene Chloride	84	6.439	6.445	(0.716)	257060	2.35382	5.884
32 3-Chloropropene	39	6.460	6.461	(0.719)	312541	2.30864	5.772
33 Carbon Disulfide	76	6.611	6.617	(0.735)	790878	2.05301	5.132
34 trans-1,2-Dichloroethene	96	7.256	7.257	(0.807)	294292	2.15773	5.394
35 ~ 2-Methyl Pentane	43	7.294	7.289	(0.811)	637960	2.22133	5.553
36 Methyl-t-Butyl Ether	73	7.380	7.402	(0.821)	699353	2.19656	5.491
37 1,1-Dichloroethane	63	7.676	7.671	(0.854)	593291	2.32227	5.806
38 Vinyl Acetate	43	7.773	7.779	(0.865)	561052	2.21244	5.531
39 2-Butanone	72	8.214	8.220	(0.914)	82514	1.75984	4.400
40 Hexane	56	8.273	8.279	(0.920)	233232	2.13091	5.327
41 cis 1,2-Dichloroethene	96	8.660	8.656	(0.963)	300457	2.36709	5.918
42 Ethyl acetate	43	8.833	8.844	(0.983)	434426	2.00175	5.004
43 Chloroform	83	9.005	9.000	(1.002)	768375	2.20994	5.525
44 Tetrahydrofuran	42	9.397	9.425	(1.045)	210950	2.14967	5.374
45 1,1,1-Trichloroethane	97	10.043	10.049	(1.117)	948459	2.27504	5.688
46 1,2-Dichloroethane	62	10.134	10.135	(0.907)	586543	2.14065	5.352
47 1-Butanol	31	10.559	10.576	(0.945)	70169	1.90854	4.771
48 Benzene	78	10.640	10.641	(0.952)	736145	2.10133	5.253
49 Cyclohexane	69	10.651	10.646	(0.953)	128922	2.07424	5.186
50 Carbon Tetrachloride	117	10.667	10.662	(0.955)	956303	2.54397	6.360
51 ~ 2,3-dimethylpentane	71	10.769	10.775	(0.964)	149976	2.09900	5.248
52 ~ Thiophene	84	10.909	10.904	(0.976)	406161	2.09300	5.232
53 2,2,4-trimethylpentane	57	11.415	11.421	(1.022)	1141399	1.97606	4.940
54 Heptane	71	11.780	11.781	(1.054)	227842	1.93830	4.846
55 1,2-Dichloropropane	63	11.845	11.840	(1.060)	242405	2.01557	5.039
56 Trichloroethene	130	11.888	11.883	(1.064)	397858	2.06510	5.163
180 ~ 2-nitropropane	43	11.780	11.781	(1.054)	446330		
57 Dibromomethane	93	11.958	11.959	(1.070)	376646	1.98475	4.962
58 Bromodichloromethane	83	12.103	12.109	(1.083)	790060	2.13287	5.332
59 1,4-dioxane	88	12.114	12.120	(1.084)	63925	1.49258	3.731
60 Methyl Methacrylate	41	12.195	12.195	(1.091)	278888	2.02740	5.068
61 ~ methyl cyclohexane	83	12.668	12.669	(1.134)	448727	2.16889	5.422
62 4-Methyl-2-pentanone	43	13.039	13.051	(1.167)	367675	1.74040	4.351

Data File: /var/chem/gcms/mj.i/J052412I.b/jicve24.d
Report Date: 25-May-2012 12:37

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	13.104	13.099	(1.173)	420900	2.17881	5.447
64	trans-1,3-Dichloropropene	75	13.792	13.793	(0.868)	477652	2.13110	5.328
65	Toluene	91	13.932	13.927	(0.876)	807542	2.02998	5.075
66	1,1,2-Trichloroethane	83	13.997	13.997	(0.881)	240706	1.98059	4.951
67	~ 2-methyl thiophene	97	14.083	14.083	(0.886)	707686	2.10656	5.266
68	~ 3-methyl thiophene	97	14.282	14.288	(0.898)	722639	2.13920	5.348
69	2-Hexanone	58	14.373	14.379	(0.904)	160069	1.52128	3.803
70	Octane	85	14.632	14.627	(0.920)	253097	1.89353	4.734
71	Dibromochloromethane	129	14.702	14.697	(0.925)	715158	2.13215	5.330
72	1,2-Dibromoethane	107	14.992	14.987	(0.943)	511201	2.01620	5.040
73	Tetrachloroethene	129	15.078	15.079	(0.949)	383276	1.94804	4.870
74	Chlorobenzene	112	15.944	15.945	(1.003)	646352	1.98528	4.963
75	~ 2,3-dimethylheptane	43	15.976	15.982	(1.005)	771644	2.06431	5.161
76	Ethylbenzene	91	16.235	16.241	(1.021)	1052251	2.08710	5.218
77	~ 2-ethyl thiophene	97	16.337	16.332	(1.028)	905300	2.14725	5.368
78	m&p-Xylene	91	16.401	16.397	(1.032)	1666789	4.15314	10.38
79	Nonane	57	16.826	16.822	(1.059)	480340	1.94624	4.866
80	Bromoform	173	16.837	16.832	(1.059)	655953	2.17880	5.447
81	Styrene	104	16.859	16.859	(1.061)	556555	2.19166	5.479
82	o-Xylene	91	16.923	16.924	(1.065)	838223	2.02740	5.068
M 83	Xylene (total)	100				2505012	6.18053	15.45
84	1,1,2,2-Tetrachloroethane	83	17.235	17.236	(1.084)	509850	2.00729	5.018
85	1,2,3-Trichloropropane	110	17.391	17.397	(1.094)	177823	1.90375	4.759
86	Cumene	105	17.510	17.510	(1.102)	1139395	1.98836	4.971
87	n-Propylbenzene	120	18.042	18.037	(1.135)	272991	1.98305	4.958
88	2-chlorotoluene	126	18.085	18.086	(1.138)	282119	1.98393	4.960
89	4-Ethyltoluene	105	18.193	18.188	(1.145)	1088373	2.02880	5.072
90	1,3,5-Trimethylbenzene	120	18.263	18.263	(1.149)	479647	2.08263	5.206
91	Alpha-Methylstyrene	118	18.489	18.489	(1.163)	405803	2.10973	5.274
92	Decane	57	18.559	18.554	(1.168)	524918	2.02629	5.066
93	tert-butylbenzene	119	18.688	18.683	(1.176)	950030	1.94559	4.864
94	1,2,4-Trimethylbenzene	105	18.698	18.699	(1.176)	888395	2.02217	5.055
95	sec-butylbenzene	105	18.951	18.952	(1.192)	1206931	2.03336	5.083
96	1,3-Dichlorobenzene	146	18.962	18.963	(1.193)	615130	1.93300	4.832
97	Benzyl Chloride	91	19.032	19.032	(1.197)	779009	1.99095	4.977
98	1,4-Dichlorobenzene	146	19.048	19.049	(1.198)	586473	1.88845	4.721
99	p-Cymene	119	19.113	19.113	(1.202)	1017607	2.01571	5.039
100	~ 1,2,3- Trimethylbenzene	105	19.166	19.167	(1.206)	795710	2.23902	5.598
101	~ n-butylcyclohexane	83	19.226	19.226	(1.209)	619738	2.14189	5.355
102	~ Indane	117	19.409	19.404	(1.221)	798880	2.19505	5.488
103	1,2-Dichlorobenzene	146	19.409	19.404	(1.221)	543418	1.86031	4.651
104	n-butylbenzene	91	19.543	19.544	(1.229)	910037	1.93921	4.848
105	~ Indene	116	19.538	19.538	(1.229)	573672	2.23854	5.596
106	Undecane	57	19.855	19.856	(1.249)	406251	1.53693	3.842
107	~ 1,2-dimethyl-4-ethylenzene	119	19.914	19.915	(1.253)	811494	2.00538	5.013
108	~ 1,2,4,5-tetramethylbenzene	119	20.296	20.297	(1.277)	753795	1.93454	4.836
109	~ 1,2,3,5-tetramethylbenzene	119	20.350	20.350	(1.280)	549879	1.90774	4.769

Data File: /var/chem/gcms/mj.i/J052412I.b/jicve24.d
Report Date: 25-May-2012 12:37

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.759	20.754	(1.306)	515692	1.68550	4.214
111 Dodecane	57	20.926	20.926	(1.316)	225778	1.40075	3.502
112 1,2,4-Trichlorobenzene	180	21.119	21.120	(1.329)	227892	1.33590	3.340
113 Napthalene	128	21.265	21.265	(1.338)	391005	1.32765	3.319
114 ~ benzo(b) thiophene	134	21.372	21.378	(1.344)	279094	1.66434	4.161
115 Hexachlorobutadiene	225	21.490	21.491	(1.352)	372203	1.54296	3.857
116 1,2,3-trichlorobenzene	180	21.560	21.555	(1.356)	161345	1.35110	3.378
117 ~ 2-Methylnaphthalene	142	22.270	22.271	(1.401)	178049	9.86202	24.66
118 ~ 1-Methylnaphthalene	142	22.416	22.411	(1.410)	162717	9.38145	23.45

Data File: /var/chem/gcms/mj.i/J052412I.b/jicve24.d
Report Date: 25-May-2012 12:37

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jicve24.d
Lab Smp Id: ICV
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Calibration Date: 24-MAY-2012
Calibration Time: 18:13
Client Smp ID: LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	427058	254100	600016	431996	1.16
2 1,4-Difluorobenze	1783321	1061076	2505566	1866577	4.67
3 Chlorobenzene-d5	1569169	933656	2204682	1741691	10.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.99	-0.01
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.04
3 Chlorobenzene-d5	15.90	15.57	16.23	15.90	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J052412I.b/jicve24.d
Report Date: 25-May-2012 12:37

TestAmerica Knoxville

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: ICV
Level: LOW
Data Type: MS DATA
SpikeList File: icv.spk
Sublist File: all.sub
Method File: /var/chem/gcms/mj.i/J052412I.b/TO15.m
Misc Info: J052412I,TO15,all.sub,,,

Client SDG: J052412I
Fraction: OTHER
Client Smp ID: LCS
Operator: 7126
SampleType: 2ND SOURCE
Quant Type: ISTD

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
5 Chlorodifluorometh	5.000	5.353	107.06	65-135
7 Dichlorodifluorome	5.000	5.359	107.19	65-135
6 Propene	5.000	5.082	101.64	65-135
9 1,2-Dichlorotetraf	5.000	5.315	106.30	65-135
8 Chloromethane	5.000	5.517	110.34	65-135
10 Methanol	5.000	0.000	*	65-135
11 ~ acetaldehyde	23.35	24.32	104.15	65-135
12 Vinyl Chloride	5.000	5.173	103.45	65-135
13 n-Butane	5.000	5.716	114.32	65-135
14 1,3-Butadiene	5.000	5.521	110.42	65-135
15 Bromomethane	5.000	5.008	100.17	65-135
16 Chloroethane	5.000	5.190	103.81	65-135
17 ~ ethanol	24.06	25.31	105.22	65-135
18 Vinyl Bromide	5.000	5.569	111.38	65-135
19 2-methyl butane	5.000	5.046	100.93	65-135
20 Trichlorofluoromet	5.000	5.240	104.80	65-135
21 Acrolein	5.000	4.361	87.22	65-135
22 Acetonitrile	5.000	4.957	99.13	65-135
23 Acetone	5.000	3.791	75.81	65-135
25 Pentane	5.000	5.257	105.15	65-135
24 Isopropyl alcohol	5.000	4.264	85.28	65-135
26 Ethyl Ether	5.000	5.232	104.64	65-135
27 1,1-Dichloroethene	5.000	6.232	124.63	65-135
29 Acrylonitrile	5.000	5.429	108.58	65-135
28 tert-butanol	5.000	4.427	88.55	65-135
30 1,1,2-Trichlorotri	5.000	6.211	124.22	65-135
31 Methylene Chloride	5.000	5.884	117.69	65-135
32 3-Chloropropene	5.000	5.772	115.43	65-135
33 Carbon Disulfide	5.000	5.132	102.65	65-135
34 trans-1,2-Dichloro	5.000	5.394	107.89	65-135
35 ~ 2-Methyl Pentane	5.000	5.553	111.07	65-135
36 Methyl-t-Butyl Eth	5.000	5.491	109.83	65-135
37 1,1-Dichloroethane	5.000	5.806	116.11	65-135

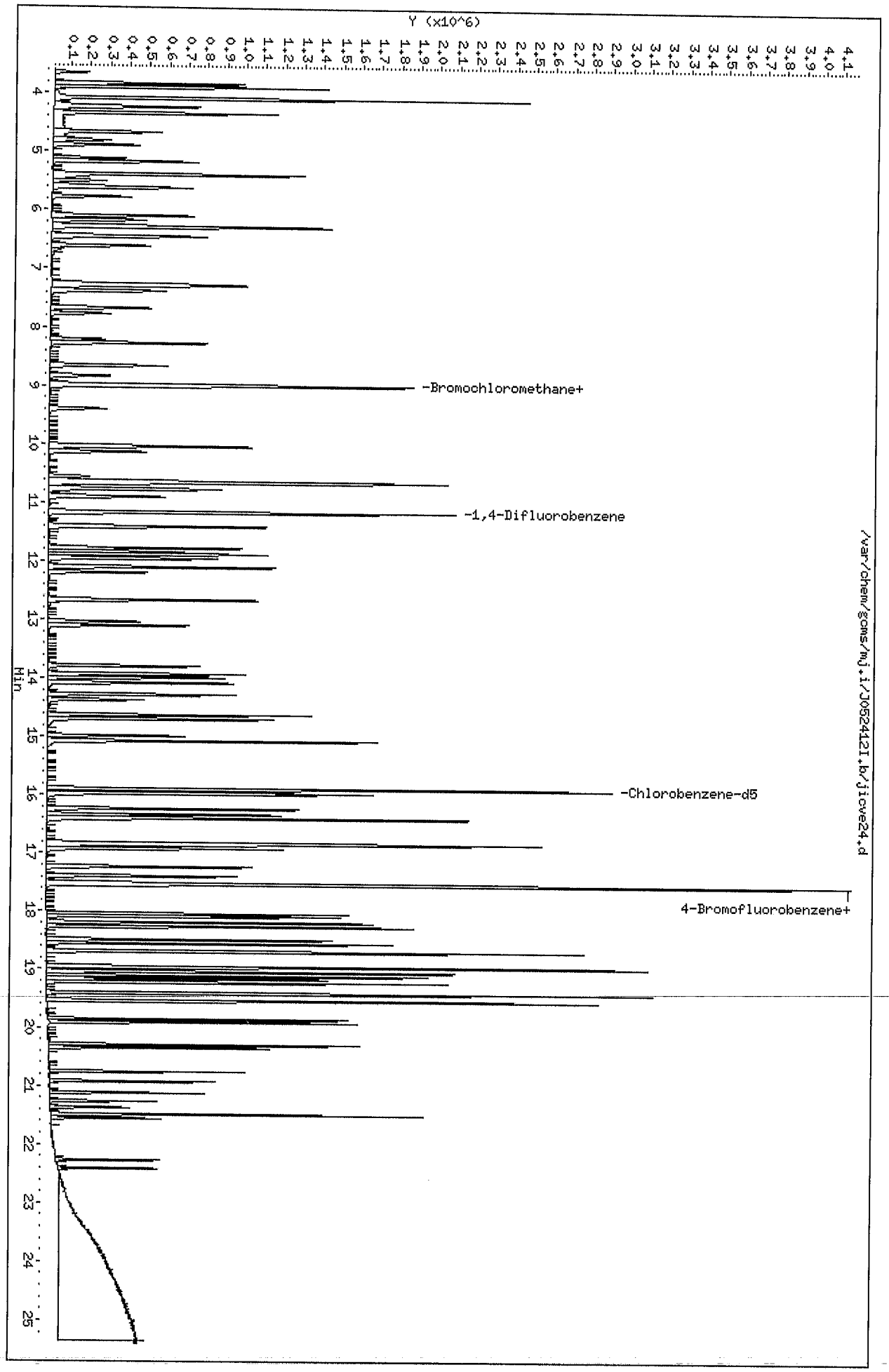
Data File: /var/chem/gcms/mj.i/J052412I.b/jicve24.d
Report Date: 25-May-2012 12:37

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
38 Vinyl Acetate	5.000	5.531	110.62	65-135
39 2-Butanone	5.000	4.400	87.99	65-135
40 Hexane	5.000	5.327	106.55	65-135
41 cis 1,2-Dichloroet	5.000	5.918	118.35	65-135
42 Ethyl acetate	5.000	5.004	100.09	65-135
43 Chloroform	5.000	5.525	110.50	65-135
44 Tetrahydrofuran	5.000	5.374	107.48	65-135
45 1,1,1-Trichloroeth	5.000	5.688	113.75	65-135
46 1,2-Dichloroethane	5.000	5.352	107.03	65-135
47 1-Butanol	5.000	4.771	95.43	65-135
49 Cyclohexane	5.000	5.186	103.71	65-135
48 Benzene	5.000	5.253	105.07	65-135
50 Carbon Tetrachlori	5.000	6.360	127.20	65-135
51 ~ 2,3-dimethylpent	4.951	5.248	105.98	65-135
52 ~ Thiophene	4.902	5.232	106.73	65-135
53 2,2,4-trimethylpen	5.000	4.940	98.80	65-135
54 Heptane	5.000	4.846	96.92	65-135
55 1,2-Dichloropropan	5.000	5.039	100.78	65-135
56 Trichloroethene	5.000	5.163	103.25	65-135
57 Dibromomethane	5.000	4.962	99.24	65-135
58 Bromodichlorometha	5.000	5.332	106.64	65-135
59 1,4-dioxane	5.000	3.731	74.63	65-135
60 Methyl Methacrylat	5.000	5.068	101.37	65-135
61 ~ methyl cyclohexa	4.966	5.422	109.18	65-135
62 4-Methyl-2-pentano	5.000	4.351	87.02	65-135
63 cis-1,3-Dichloropr	5.000	5.447	108.94	65-135
64 trans-1,3-Dichloro	5.000	5.328	106.55	65-135
65 Toluene	5.000	5.075	101.50	65-135
66 1,1,2-Trichloroeth	5.000	4.951	99.03	65-135
67 ~ 2-methyl thiophe	4.911	5.266	107.23	65-135
68 ~ 3-methyl thiophe	4.946	5.348	108.12	65-135
69 2-Hexanone	5.000	3.803	76.06	65-135
70 Octane	5.000	4.734	94.68	65-135
71 Dibromochlorometha	5.000	5.330	106.61	65-135
72 1,2-Dibromoethane	5.000	5.040	100.81	65-135
73 Tetrachloroethene	5.000	4.870	97.40	65-135
74 Chlorobenzene	5.000	4.963	99.26	65-135
75 ~ 2,3-dimethylhept	5.015	5.161	102.91	65-135
76 Ethylbenzene	5.000	5.218	104.35	65-135
77 ~ 2-ethyl thiophen	4.931	5.368	108.86	65-135
78 m&p-Xylene	10.00	10.38	103.83	65-135
79 Nonane	5.000	4.866	97.31	65-135
80 Bromoform	5.000	5.447	108.94	65-135
81 Styrene	5.000	5.479	109.58	65-135
82 o-Xylene	5.000	5.068	101.37	65-135
84 1,1,2,2-Tetrachlor	5.000	5.018	100.36	65-135
85 1,2,3-Trichloropro	5.000	4.759	95.19	65-135

Data File: /var/chem/gcms/mj.i/J052412I.b/jicve24.d
Report Date: 25-May-2012 12:37

SPIKE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
86 Cumene	5.000	4.971	99.42	65-135
87 n-Propylbenzene	5.000	4.958	99.15	65-135
88 2-chlorotoluene	5.000	4.960	99.20	65-135
89 4-Ethyltoluene	5.000	5.072	101.44	65-135
90 1,3,5-Trimethylben	5.000	5.206	104.13	65-135
91 Alpha-Methylstyren	5.000	5.274	105.49	65-135
92 Decane	5.000	5.066	101.31	65-135
94 1,2,4-Trimethylben	5.000	5.055	101.11	65-135
93 tert-butylbenzene	5.000	4.864	97.28	65-135
95 sec-butylbenzene	5.000	5.083	101.67	65-135
96 1,3-Dichlorobenzen	5.000	4.832	96.65	65-135
98 1,4-Dichlorobenzen	5.000	4.721	94.42	65-135
97 Benzyl Chloride	5.000	4.977	99.55	65-135
99 p-Cymene	5.000	5.039	100.79	65-135
100 ~ 1,2,3- Trimethyl	4.990	5.598	112.18	65-135
101 ~ n-butylcyclohexa	4.941	5.355	108.37	65-135
102 ~ Indane	5.005	5.488	109.64	65-135
103 1,2-Dichlorobenzen	5.000	4.651	93.02	65-135
104 n-butylbenzene	5.000	4.848	96.96	65-135
105 ~ Indene	4.916	5.596	113.83	65-135
106 Undecane	5.000	3.842	76.85	65-135
107 ~ 1,2-dimethyl-4-e	4.902	5.013	102.26	65-135
108 ~ 1,2,4,5-tetramet	5.015	4.836	96.44	65-135
109 ~ 1,2,3,5-tetramet	4.926	4.769	96.81	65-135
110 ~ 1,2,3,4-tetramet	5.025	4.214	83.86	65-135
111 Dodecane	5.000	3.502	70.04	65-135
112 1,2,4-Trichloroben	5.000	3.340	66.79	65-135
113 Napthalene	5.000	3.319	66.38	65-135
114 ~ benzo(b) thiophe	4.990	4.161	83.38	65-135
115 Hexachlorobutadien	5.000	3.857	77.15	65-135
116 1,2,3-trichloroben	5.000	3.378	67.56	65-135
117 ~ 2-Methylnaphthal	31.25	24.66	78.90	65-135
118 ~ 1-Methylnaphthal	31.25	23.45	75.05	65-135

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	10.00	9.825	98.25	70-130


Data File: /var/chem/gcms/mj.i/J052412I.b/jicve24.d
Date : 24-MAY-2012 22:54
Client ID: LCS
Sample Info: ICV,,3,,,LCS
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
Min
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+
/var/chem/gcms/mj.i/J052412I.b/jicve24.d

TestAmerica Knoxville GC/MS Air Continuing Calibration Review / Narrative Checklist
Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 12 & KNOX-MS-0023, Rev 0

Analysis Date:	6/5/12	CCAL Batch/ Scan Name:	J060512	Instrument:	MJ	ICAL Batch/ Scan Name:	J052427	Scanned □

Review Items	N/A	Yes	No	If No, why is data reportable?	2nd
1. Did BFB meet tune criteria?		✓		□ failed for TO-14A, but passes for TO-15	✓
2. Were all standards injected within 24 hr of BFB?		✓			✓
3. Have the Entech position no. & vol. been verified with run log & sample vol. corrected if actual amount differs >5%?		✓			✓
4. Was date/time of analysis in logbook correct?		✓			✓
5. Was the CCAL compared to the correct ICAL (date & time on CCAL matches the ICAL)		✓		Acetone -35%, 2-Butanone -31%, 1,4-dioxane -31%. others NT	✓
6. Is the %D ≤ 30% for all target analytes? (Narrative req'd.).		✓		☑ [ccal] analytes > 30% but passes LCS criteria.	✓
7. Have all peaks been auto identified? If not, list:		✓			✓
8. If manual integrations were performed, are they clearly identified, initialed, dated and reason given?	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	NA
9. Have alternate hits/manual integrations been verified as correct and are correct RFs listed in CCAL summary?	✓				NA
10. Is the first IS documented correctly on the log?		✓			✓
11. Elution order checked on isomeric pairs?		✓			✓
• dichlorodifluoromethane / 1,2-dichlorotetrafluoroethane		✓			✓
• trichlorofluoromethane / 1,1,2-trichlorotrifluoroethane		✓			✓
• vinyl acetate / hexane		✓			✓
• cis- and trans- isomers		✓			✓
• ethyl benzene / m/p-xylene / o-xylene		✓			✓
• n-propylbenzene/4-ethyl toluene/1,3,5-trimethylbenzene/1,2,4-trimethylbenzene		✓			✓
• tert-butylbenzene/p-cymene		✓			✓
• 1,2,4-trimethylbenzene/sec-butylbenzene		✓			✓
• 1,3- , 1,4- , and 1,2-dichlorobenzene		✓			✓
• 1,2,4-trichlorobenzene/1,2,3-trichlorobenzene		✓			✓
12. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). Note: Ohio does not allow for ME.		✓		□ [lcs6] LCS analyte(s) flagged as being outside control limits but within marginal limits □ [lcs5] LCS outside marginal exceedences high, but analytes were not detected undecane -42% Non target.	✓
13. If criteria were not met, was a NCM generated, approved by supervisor, and copy included in folder?	✓				NA
14. Does the CCAL folder contain **complete** data in the following order: data review checklist, a **complete** runlog, tune pass/fail page, m/z list, tune chromatogram, Target CCAL summary, Quan report, chromatogram, manual integrations.		✓			✓

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
<11	0

Analyst:	Date: 6/6/12	2nd Level Reviewer :	Date: 06-06-12
Comments:		Comments:	
No undecane or Acetaldehyde in Blks.			

TestAmerica Laboratories, Inc. - Knoxville
CANISTER RUN LOG

GCMS Analysis: AIR 7M Inst: MJ

Analyst: HLT Qtims Batch: 215 6111 (MTX9G) 2158048 (MT056)

Date: 6/5/12 ICAL Batch: JOS241LI Target Batch: JO6051Z IS #1 Area: 373662

Surr/IS ID & Vol.: 4BrCV425 System Date/Time ok (y/n): Y

Preventive Maintenance Performed ☒ Daily _____

Time	Use	Lot No.	File ID	Can #	Pos	Vol* (mL)	Can DF	Comments
0824	✓	tune	JBFBF05	—	16	100	1	
0854	✓	CCV	CCV	CX2352B	15	"	"	
0854	✓	LCS	LCS	"	"	"	"	
0959	✓	Blk	Flush	—	16	500	"	
1053	✓	"	JBlkF05	—	"	"	"	
1149	✓	H2E310431	MTWP01AA	S1495	3	200	1.48	nydec (7m)
1257	✓	"	WP4	7475	4	"	1.40	
1357	✓	"	WP7	A281	5	100	1	
1443	✓	"	WP8	6684	6	500	1	
1537	✓	H2F040429	MTX921AA	6627	7	200	1	
1627	✓	"	X93	1335N	8	"	"	
1756	✓	"	X94	6126	9	"	"	
1846	✓	"	X95	1541	10	"	"	
1939	✓	"	X97	93104	11	"	"	
2031	✓	H2F040430	X99	12649	12	424	2.12	
2120	✓	"	OAA	7782	13	200	1	
2210	✓	"	OAC	0179	14	"	"	
2300	✓	"	OAD	93209	15	"	"	
2350	✓	"	OAE	04191	1	"	"	
0040	dup	"	OAED	"	1	"	"	
0129	✓	H2F050411	MTOK91AA	12648	2	200	1	rutgers
0219	✓	H2F050405	KD	93048	3	35.6	1.78	
0308	✓	"	KE	6575	4	35.8	1.79	
0403	✓	Lot ✓	9924	S1492	5	500	1	
0459	✓	"	9925	93173	6	"	"	

6/6/12

* Entech programmed Volume. If the Entech report amount differs from the programmed amount by >5%, the Entech report amount is used for calulations.

Analyst: _____ Date: 6/6/12

Test America - Knoxville

Entech Autosampler Log

Position	Volume	Date	Time
16	102	6/5/2012	8:24
15	100	6/5/2012	8:54
16	502	6/5/2012	9:59
16	501	6/5/2012	10:53
3	200	6/5/2012	11:49
4	200	6/5/2012	12:57
5	101	6/5/2012	13:51
6	501	6/5/2012	14:43
7	200	6/5/2012	15:37
8	200	6/5/2012	16:27
9	201	6/5/2012	17:56
10	202	6/5/2012	18:46
11	201	6/5/2012	19:39
12	425	6/5/2012	20:31
13	202	6/5/2012	21:20
14	201	6/5/2012	22:10
15	202	6/5/2012	23:00
1	201	6/5/2012	23:49
1	201	6/6/2012	0:40
2	200	6/6/2012	1:29
3	36	6/6/2012	2:19
4	37	6/6/2012	3:08
5	501	6/6/2012	4:03
6	501	6/6/2012	4:59

Data File: /chem/gcms/mj.i/J060512.b/jbfbf05.d

Date : 05-JUN-2012 08:24

Client ID: BFB

Instrument: mj.i

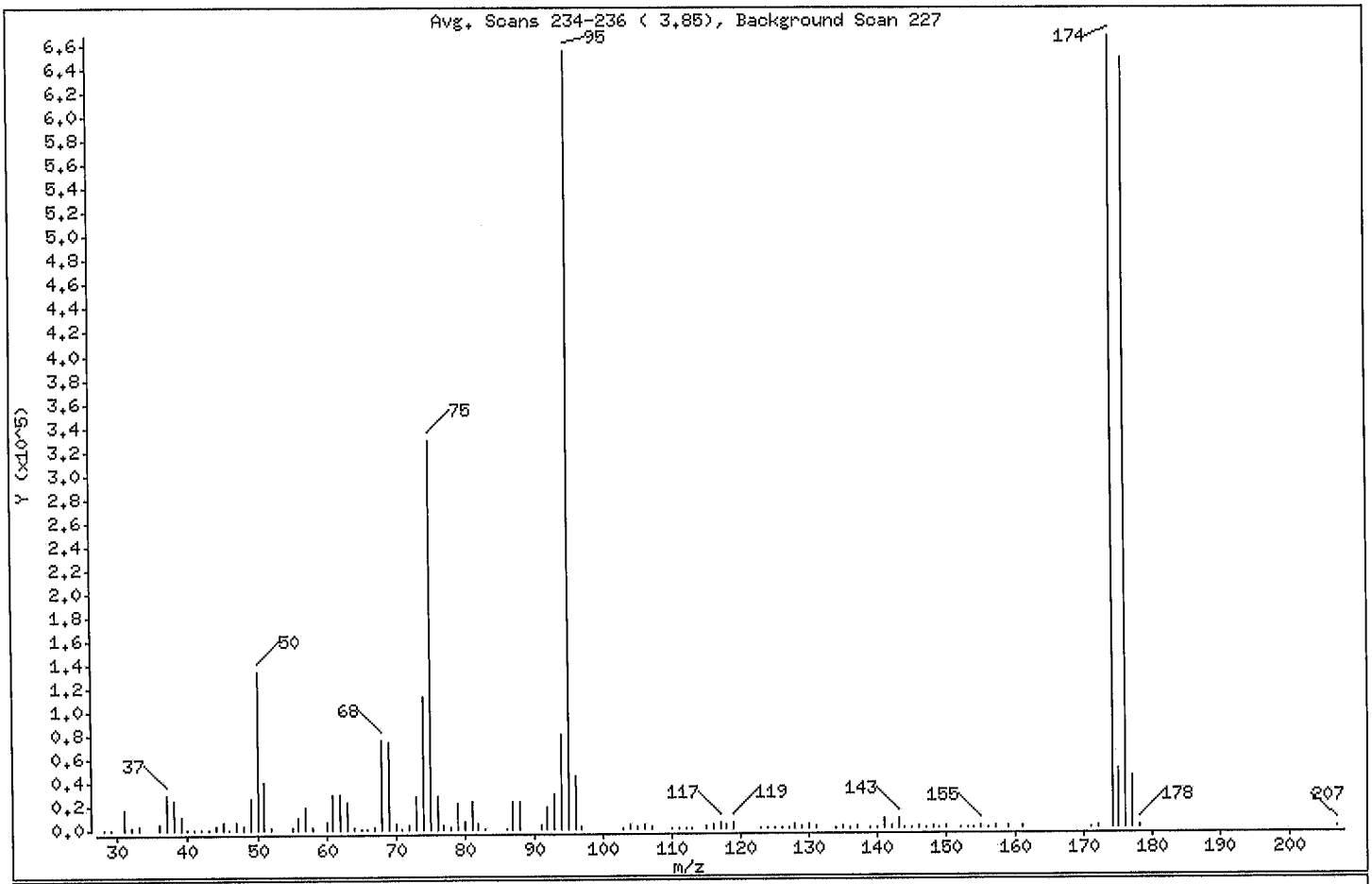
Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32

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	20.38
75	30.00 - 60.00% of mass 95	50.07
96	5.00 - 9.00% of mass 95	6.90
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 120.00% of mass 95	101.77
175	5.00 - 9.00% of mass 174	7.37 (7.24)
176	95.00 - 101.00% of mass 174	99.00 (97.28)
177	5.00 - 9.00% of mass 176	6.64 (6.71)

Data File: /chem/gcms/mj.i/J060512.b/jbfbf05.d

Date : 05-JUN-2012 08:24

Client ID: BFB

Instrument: mj.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32

Data File: jbfbf05.d

Spectrum: Avg. Scans 234-236 (3.85), Background Scan 227

Location of Maximum: 174.00

Number of points: 115

m/z	Y	m/z	Y	m/z	Y	m/z	Y
28.00	396	63.00	23600	96.00	45256	139.00	103
29.00	239	64.00	2003	97.00	1522	140.00	518
31.00	16176	65.00	373	103.00	304	141.00	7634
32.00	1111	66.00	105	104.00	3349	142.00	965
33.00	3272	67.00	1266	105.00	1285	143.00	8269
36.00	4669	68.00	75048	106.00	3269	144.00	655
37.00	28480	69.00	73472	107.00	968	145.00	724
38.00	24712	70.00	5283	110.00	245	146.00	1184
39.00	10425	71.00	105	111.00	570	147.00	480
40.00	564	72.00	3143	112.00	329	148.00	1823
41.00	292	73.00	27272	113.00	680	149.00	472
42.00	212	74.00	112456	115.00	1008	150.00	818
43.00	132	75.00	328640	116.00	2784	152.00	528
44.00	2639	76.00	28280	117.00	4522	153.00	399
45.00	5972	77.00	3308	118.00	2706	154.00	400
46.00	467	78.00	2204	119.00	4277	155.00	1915
47.00	5733	79.00	21392	123.00	128	156.00	137
48.00	3472	80.00	6702	124.00	551	157.00	1514
49.00	26440	81.00	22720	125.00	208	159.00	960
50.00	133760	82.00	4600	126.00	211	161.00	938
51.00	40376	83.00	264	127.00	119	171.00	194
52.00	1514	86.00	251	128.00	2912	172.00	782
55.00	1835	87.00	22832	129.00	1562	174.00	667968
56.00	9601	88.00	23680	130.00	2784	175.00	48384
57.00	19064	91.00	2750	131.00	1288	176.00	649792
58.00	778	92.00	18432	134.00	107	177.00	43584
60.00	5829	93.00	29680	135.00	1353	178.00	1380
61.00	29320	94.00	80360	136.00	149	207.00	249
62.00	29160	95.00	656384	137.00	1378		

Data File: /chem/gcms/mj.i/J060512.b/jbfbf05.d

Date : 05-JUN-2012 08:24

Client ID: BFB

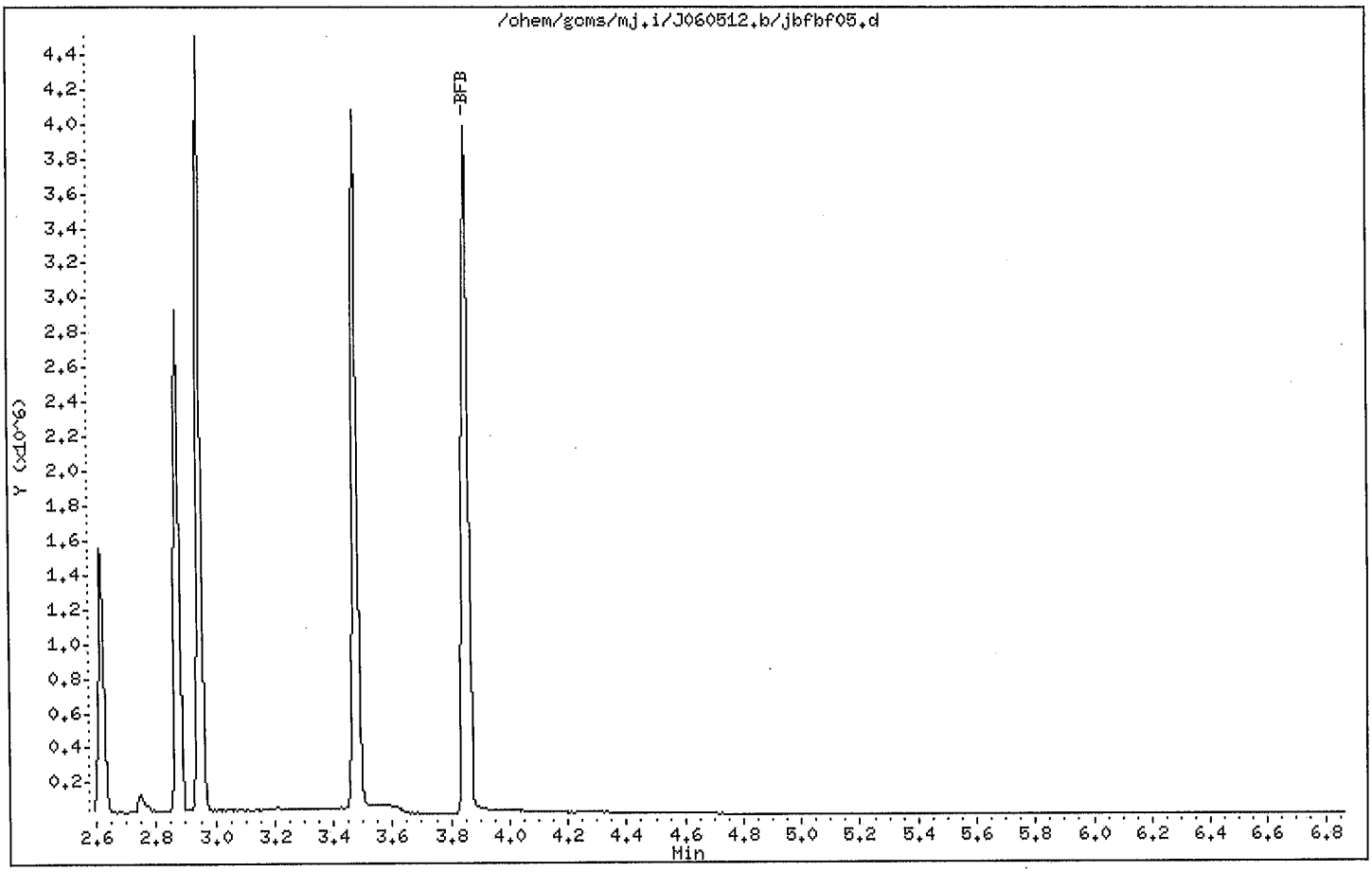
Instrument: mj.i

Sample Info: BFB,,3,,,BFB

Operator: 7126

Column phase: Rtx-5

Column diameter: 0.32



Data File: /var/chem/gcms/mj.i/J060512.b/jccvf05.d
Report Date: 06-Jun-2012 11:48

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mj.i
Lab File ID: jccvf05.d
Analysis Type: AIR
Lab Sample ID: CCV/LCS
Method: /var/chem/gcms/mj.i/J060512.b/TO15.m

Injection Date: 05-JUN-2012 08:54
Init. Cal. Date(s): 24-MAY-2012 24-MAY-2012
Init. Cal. Times: 13:43 21:04
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
$ 4 4-Bromofluorobenzene	0.78966	0.79378	0.79378	0.000	-0.52197	30.00000	Averaged	
5 Chlorodifluoromethane	0.60232	0.60813	0.60813	0.000	-0.96421	30.00000	Averaged	
6 Propene	1.15210	1.09217	1.09217	0.000	5.20157	30.00000	Averaged	
7 Dichlorodifluoromethane	5.55089	5.56116	5.56116	0.000	-0.18493	30.00000	Averaged	
8 Chloromethane	0.39722	0.39502	0.39502	0.000	0.55426	30.00000	Averaged	
9 1,2-Dichlorotetrafluoroetha	3.64867	3.51582	3.51582	0.000	3.64113	30.00000	Averaged	
10 Methanol	4.48190	0.26626	0.26626	0.000	94.05931	30.00000	Averaged	<-NA
11 ~ acetaldehyde	0.37040	0.11565	0.11565	0.000	68.77571	30.00000	Averaged	<-NA
12 Vinyl Chloride	1.54376	1.45217	1.45217	0.000	5.93338	30.00000	Averaged	
13 n-Butane	1.81735	1.83908	1.83908	0.000	-1.19544	30.00000	Averaged	
14 1,3-Butadiene	1.03036	1.03114	1.03114	0.000	-0.07540	30.00000	Averaged	
15 Bromomethane	1.69757	1.54480	1.54480	0.000	8.99915	30.00000	Averaged	
16 Chloroethane	0.67849	0.65548	0.65548	0.000	3.39058	30.00000	Averaged	
17 ~ ethanol	0.36618	0.35171	0.35171	0.000	3.94978	30.00000	Averaged	
18 Vinyl Bromide	1.19586	1.26057	1.26057	0.000	-5.41105	30.00000	Averaged	
19 2-methyl butane	1.42595	1.37667	1.37667	0.000	3.45631	30.00000	Averaged	
20 Trichlorofluoromethane	5.25860	5.35034	5.35034	0.000	-1.74455	30.00000	Averaged	NT
21 Acrolein	0.35408	0.24309	0.24309	0.000	31.34512	30.00000	Averaged	<-60120
22 Acetonitrile	0.39467	0.33615	0.33615	0.000	14.82890	30.00000	Averaged	
23 Acetone	0.55911	0.36557	0.36557	0.000	34.61531	30.00000	Averaged	<-60120
24 Isopropyl alcohol	1.51565	1.23452	1.23452	0.000	18.54826	30.00000	Averaged	
25 Pentane	0.17309	0.17802	0.17802	0.000	-2.84909	30.00000	Averaged	
26 Ethyl Ether	1.00220	0.94351	0.94351	0.000	5.85617	30.00000	Averaged	
27 1,1-Dichloroethene	1.04703	1.26117	1.26117	0.000	-20.45220	30.00000	Averaged	
28 tert-butanol	2.07832	1.87421	1.87421	0.000	9.82094	30.00000	Averaged	
29 Acrylonitrile	0.64109	0.59622	0.59622	0.000	6.99878	30.00000	Averaged	
30 1,1,2-Trichlorotrifluoroeth	2.59795	3.07685	3.07685	0.000	-18.43373	30.00000	Averaged	
31 Methylene Chloride	1.01121	1.11256	1.11256	0.000	-10.02230	30.00000	Averaged	
32 3-Chloropropene	1.25352	1.37840	1.37840	0.000	-9.96246	30.00000	Averaged	
33 Carbon Disulfide	3.56696	3.39853	3.39853	0.000	4.72185	30.00000	Averaged	
34 trans-1,2-Dichloroethene	1.26288	1.26290	1.26290	0.000	-0.00176	30.00000	Averaged	
35 ~ 2-Methyl Pentane	2.65926	2.58511	2.58511	0.000	2.78827	30.00000	Averaged	
36 Methyl-t-Butyl Ether	2.94804	2.73968	2.73968	0.000	7.06766	30.00000	Averaged	
37 1,1-Dichloroethane	2.36557	2.38884	2.38884	0.000	-0.98386	30.00000	Averaged	
38 Vinyl Acetate	2.34808	2.09243	2.09243	0.000	10.88762	30.00000	Averaged	

Data File: /var/chem/gcms/mj.i/J060512.b/jccvf05.d
Report Date: 06-Jun-2012 11:48

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mj.i
Lab File ID: jccvf05.d
Analysis Type: AIR
Lab Sample ID: CCV/LCS
Method: /var/chem/gcms/mj.i/J060512.b/TO15.m

Injection Date: 05-JUN-2012 08:54
Init. Cal. Date(s): 24-MAY-2012 24-MAY-2012
Init. Cal. Times: 13:43 21:04
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
39 2-Butanone	0.43414	0.29971	0.29971	0.000	30.96585	30.00000	Averaged	<- 60-140 ✓
40 Hexane	1.01345	0.96138	0.96138	0.000	5.13868	30.00000	Averaged	
41 cis 1,2-Dichloroethene	1.17530	1.18823	1.18823	0.000	-1.10058	30.00000	Averaged	
42 Ethyl acetate	2.00949	1.60069	1.60069	0.000	20.34329	30.00000	Averaged	
43 Chloroform	3.21938	3.12519	3.12519	0.000	2.92589	30.00000	Averaged	
44 Tetrahydrofuran	0.90863	0.80238	0.80238	0.000	11.69395	30.00000	Averaged	
45 1,1,1-Trichloroethane	3.86020	3.86982	3.86982	0.000	-0.24902	30.00000	Averaged	
46 1,2-Dichloroethane	0.58718	0.52960	0.52960	0.000	9.80482	30.00000	Averaged	
47 1-Butanol	0.07879	0.06001	0.06001	0.000	23.82798	30.00000	Averaged	
48 Benzene	0.75073	0.61595	0.61595	0.000	17.95285	30.00000	Averaged	
49 Cyclohexane	0.13319	0.11887	0.11887	0.000	10.75660	30.00000	Averaged	
50 Carbon Tetrachloride	0.80556	0.92009	0.92009	0.000	-14.21702	30.00000	Averaged	
51 ~ 2,3-dimethylpentane	0.15312	0.12721	0.12721	0.000	16.92067	30.00000	Averaged	
52 ~ Thiophene	0.41586	0.34774	0.34774	0.000	16.38026	30.00000	Averaged	
53 2,2,4-trimethylpentane	1.23781	1.02086	1.02086	0.000	17.52672	30.00000	Averaged	
54 Heptane	0.25190	0.19485	0.19485	0.000	22.64628	30.00000	Averaged	
55 1,2-Dichloropropane	0.25773	0.21045	0.21045	0.000	18.34399	30.00000	Averaged	
56 Trichloroethene	0.41286	0.36348	0.36348	0.000	11.96064	30.00000	Averaged	
180 ~ 2-nitropropane	++++	0.38243	0.38243	0.000	++++	30.00000	Averaged	<- NA
57 Dibromomethane	0.40667	0.32912	0.32912	0.000	19.06909	30.00000	Averaged	
58 Bromodichloromethane	0.79380	0.70120	0.70120	0.000	11.66566	30.00000	Averaged	
59 1,4-dioxane	0.09178	0.06310	0.06310	0.000	31.25069	30.00000	Averaged	<- 60-140
60 Methyl Methacrylate	0.29478	0.21132	0.21132	0.000	28.31366	30.00000	Averaged	✓
61 ~ methyl cyclohexane	0.44336	0.36821	0.36821	0.000	16.94990	30.00000	Averaged	
62 4-Methyl-2-pentanone	0.45272	0.33961	0.33961	0.000	24.98350	30.00000	Averaged	
63 cis-1,3-Dichloropropene	0.41397	0.36168	0.36168	0.000	12.63238	30.00000	Averaged	
64 trans-1,3-Dichloropropene	0.51475	0.47142	0.47142	0.000	8.41789	30.00000	Averaged	
65 Toluene	0.91361	0.78241	0.78241	0.000	14.36062	30.00000	Averaged	
66 1,1,2-Trichloroethane	0.27911	0.23453	0.23453	0.000	15.97174	30.00000	Averaged	
67 ~ 2-methyl thiophene	0.77153	0.65100	0.65100	0.000	15.62305	30.00000	Averaged	
68 ~ 3-methyl thiophene	0.77581	0.65467	0.65467	0.000	15.61564	30.00000	Averaged	
69 2-Hexanone	0.24165	0.17726	0.17726	0.000	26.64476	30.00000	Averaged	
70 Octane	0.30697	0.25343	0.25343	0.000	17.44425	30.00000	Averaged	
71 Dibromochloromethane	0.77032	0.73945	0.73945	0.000	4.00759	30.00000	Averaged	
72 1,2-Dibromoethane	0.58230	0.49511	0.49511	0.000	14.97328	30.00000	Averaged	

Data File: /var/chem/gcms/mj.i/J060512.b/jccvf05.d
Report Date: 06-Jun-2012 11:48

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mj.i
Lab File ID: jccvf05.d
Analysis Type: AIR
Lab Sample ID: CCV/LCS
Method: /var/chem/gcms/mj.i/J060512.b/TO15.m

Injection Date: 05-JUN-2012 08:54
Init. Cal. Date(s): 24-MAY-2012 24-MAY-2012
Init. Cal. Times: 13:43 21:04
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE
73 Tetrachloroethene	0.45186	0.37407	0.37407	0.000	17.21457	30.00000	Averaged
74 Chlorobenzene	0.74772	0.63079	0.63079	0.000	15.63746	30.00000	Averaged
75 ~ 2,3-dimethylheptane	0.85848	0.76831	0.76831	0.000	10.50356	30.00000	Averaged
76 Ethylbenzene	1.15789	1.00989	1.00989	0.000	12.78143	30.00000	Averaged
77 ~ 2-ethyl thiophene	0.96827	0.85983	0.85983	0.000	11.19952	30.00000	Averaged
78 m&p-Xylene	0.92171	0.79889	0.79889	0.000	13.32472	30.00000	Averaged
79 Nonane	0.56681	0.50038	0.50038	0.000	11.72084	30.00000	Averaged
80 Bromoform	0.69142	0.66858	0.66858	0.000	3.30366	30.00000	Averaged
81 Styrene	0.58321	0.51358	0.51358	0.000	11.93903	30.00000	Averaged
82 o-Xylene	0.94953	0.82034	0.82034	0.000	13.60586	30.00000	Averaged
M 83 Xylene (total)	0.93098	0.80604	0.80604	0.000	13.42030	30.00000	Averaged
84 1,1,2,2-Tetrachloroethane	0.58334	0.49214	0.49214	0.000	15.63401	30.00000	Averaged
85 1,2,3-Trichloropropane	0.21452	0.16574	0.16574	0.000	22.73983	30.00000	Averaged
86 Cumene	1.31604	1.09699	1.09699	0.000	16.64443	30.00000	Averaged
87 n-Propylbenzene	0.31616	0.25692	0.25692	0.000	18.73580	30.00000	Averaged
88 2-chlorotoluene	0.32658	0.28009	0.28009	0.000	14.23785	30.00000	Averaged
89 4-Ethyltoluene	1.23204	1.00027	1.00027	0.000	18.81210	30.00000	Averaged
90 1,3,5-Trimethylbenzene	0.52893	0.44350	0.44350	0.000	16.15114	30.00000	Averaged
91 Alpha-Methylstyrene	0.44175	0.36995	0.36995	0.000	16.25397	30.00000	Averaged
92 Decane	0.59495	0.51703	0.51703	0.000	13.09628	30.00000	Averaged
93 tert-butylbenzene	1.12144	0.90059	0.90059	0.000	19.69339	30.00000	Averaged
94 1,2,4-Trimethylbenzene	1.00897	0.81499	0.81499	0.000	19.22495	30.00000	Averaged
95 sec-butylbenzene	1.36319	1.09683	1.09683	0.000	19.53925	30.00000	Averaged
96 1,3-Dichlorobenzene	0.73084	0.57429	0.57429	0.000	21.42058	30.00000	Averaged
97 Benzyl Chloride	0.89861	0.65476	0.65476	0.000	27.13585	30.00000	Averaged
98 1,4-Dichlorobenzene	0.71323	0.54916	0.54916	0.000	23.00398	30.00000	Averaged
99 p-Cymene	1.15942	0.91104	0.91104	0.000	21.42326	30.00000	Averaged
100 ~ 1,2,3- Trimethylbenzene	0.81618	0.65468	0.65468	0.000	19.78783	30.00000	Averaged
101 ~ n-butylcyclohexane	0.66451	0.61544	0.61544	0.000	7.38343	30.00000	Averaged
102 ~ Indane	0.83584	0.67151	0.67151	0.000	19.66065	30.00000	Averaged
103 1,2-Dichlorobenzene	0.67087	0.51301	0.51301	0.000	23.52979	30.00000	Averaged
104 n-butylbenzene	1.07776	0.77891	0.77891	0.000	27.72852	30.00000	Averaged
105 ~ Indene	0.58855	0.46623	0.46623	0.000	20.78450	30.00000	Averaged
106 Undecane	0.60706	0.35192	0.35192	0.000	42.02876	30.00000	Averaged
107 ~ 1,2-dimethyl-4-ethylenzen	0.92934	0.67794	0.67794	0.000	27.05128	30.00000	Averaged
108 ~ 1,2,4,5-tetramethylbenzen	0.89488	0.66382	0.66382	0.000	25.82043	30.00000	Averaged

(Y) <-60140 NT

Data File: /var/chem/gcms/mj.i/J060512.b/jccvf05.d
Report Date: 06-Jun-2012 11:48

TestAmerica Knoxville

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: mj.i
Lab File ID: jccvf05.d
Analysis Type: AIR
Lab Sample ID: CCV/LCS
Method: /var/chem/gcms/mj.i/J060512.b/TO15.m

Injection Date: 05-JUN-2012 08:54
Init. Cal. Date(s): 24-MAY-2012 24-MAY-2012
Init. Cal. Times: 13:43 21:04
Quant Type: ISTD

COMPOUND	RRF / AMOUNT	RF2	CCAL RRF2	MIN RRF	%D / %DRIFT	MAX %D / %DRIFT	CURVE TYPE	
109 ~ 1,2,3,5-tetramethylbenzen	0.66197	0.50481	0.50481	0.000	23.74133	30.00000	Averaged	
110 ~ 1,2,3,4-tetramethylbenzen	0.70267	0.52165	0.52165	0.000	25.76130	30.00000	Averaged	
111 Dodecane	0.37018	0.29905	0.29905	0.000	19.21562	30.00000	Averaged	
112 1,2,4-Trichlorobenzene	0.39178	0.28069	0.28069	0.000	28.35687	30.00000	Averaged	
113 Napthalene	0.67638	0.48798	0.48798	0.000	27.85438	30.00000	Averaged	
114 ~ benzo(b) thiophene	0.38512	0.28265	0.28265	0.000	26.60729	30.00000	Averaged	
115 Hexachlorobutadiene	0.55400	0.44887	0.44887	0.000	18.97664	30.00000	Averaged	
116 1,2,3-trichlorobenzene	1.63565	2.00000	0.22513	0.000	18.21735	30.00000	Quadratic	
117 ~ 2-Methylnaphthalene	0.04146	0.02719	0.02719	0.000	34.41199	30.00000	Averaged	<- ok
118 ~ 1-Methylnaphthalene	0.03983	0.02385	0.02385	0.000	40.11865	30.00000	Averaged	<- ok NT

Data File: /var/chem/gcms/mj.i/J060512.b/jccvf05.d
Report Date: 06-Jun-2012 11:48

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J060512.b/jccvf05.d
Lab Smp Id: CCV/LCS Client Smp ID: CCV/LCS
Inj Date : 05-JUN-2012 08:54
Operator : 7126 Inst ID: mj.i
Smp Info : CCV/LCS,,2,6,,CCV/LCS
Misc Info : J060512,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J060512.b/TO15.m
Meth Date : 06-Jun-2012 11:48 barlozha Quant Type: ISTD
Cal Date : 24-MAY-2012 13:43 Cal File: jice241.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50
Processing Host: qmidhp01

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
*	1 Bromochloromethane	128	8.987	8.987	(1.000)	373662	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.171	11.171	(1.000)	1719152	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.894	15.894	(1.000)	1506917	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.529	17.529	(1.103)	1196157	4.00000	4.021
	5 Chlorodifluoromethane	67	3.839	3.839	(0.427)	113618	2.00000	2.019
	6 Propene	41	3.849	3.849	(0.428)	204052	2.00000	1.896
	7 Dichlorodifluoromethane	85	3.903	3.903	(0.434)	1038997	2.00000	2.004
	8 Chloromethane	52	4.086	4.086	(0.455)	73801	2.00000	1.989
	9 1,2-Dichlorotetrafluoroethane	135	4.091	4.091	(0.455)	656863	2.00000	1.927
	11 ~ acetaldehyde	44	4.237	4.237	(0.471)	109334	10.1200	3.160
	12 Vinyl Chloride	62	4.258	4.258	(0.474)	271309	2.00000	1.881
	13 n-Butane	43	4.350	4.350	(0.484)	343596	2.00000	2.024
	14 1,3-Butadiene	54	4.344	4.344	(0.483)	192649	2.00000	2.002
	15 Bromomethane	94	4.672	4.672	(0.520)	288617	2.00000	1.820
	16 Chloroethane	64	4.812	4.812	(0.535)	122464	2.00000	1.932

Data File: /var/chem/gcms/mj.i/J060512.b/jccvf05.d
Report Date: 06-Jun-2012 11:48

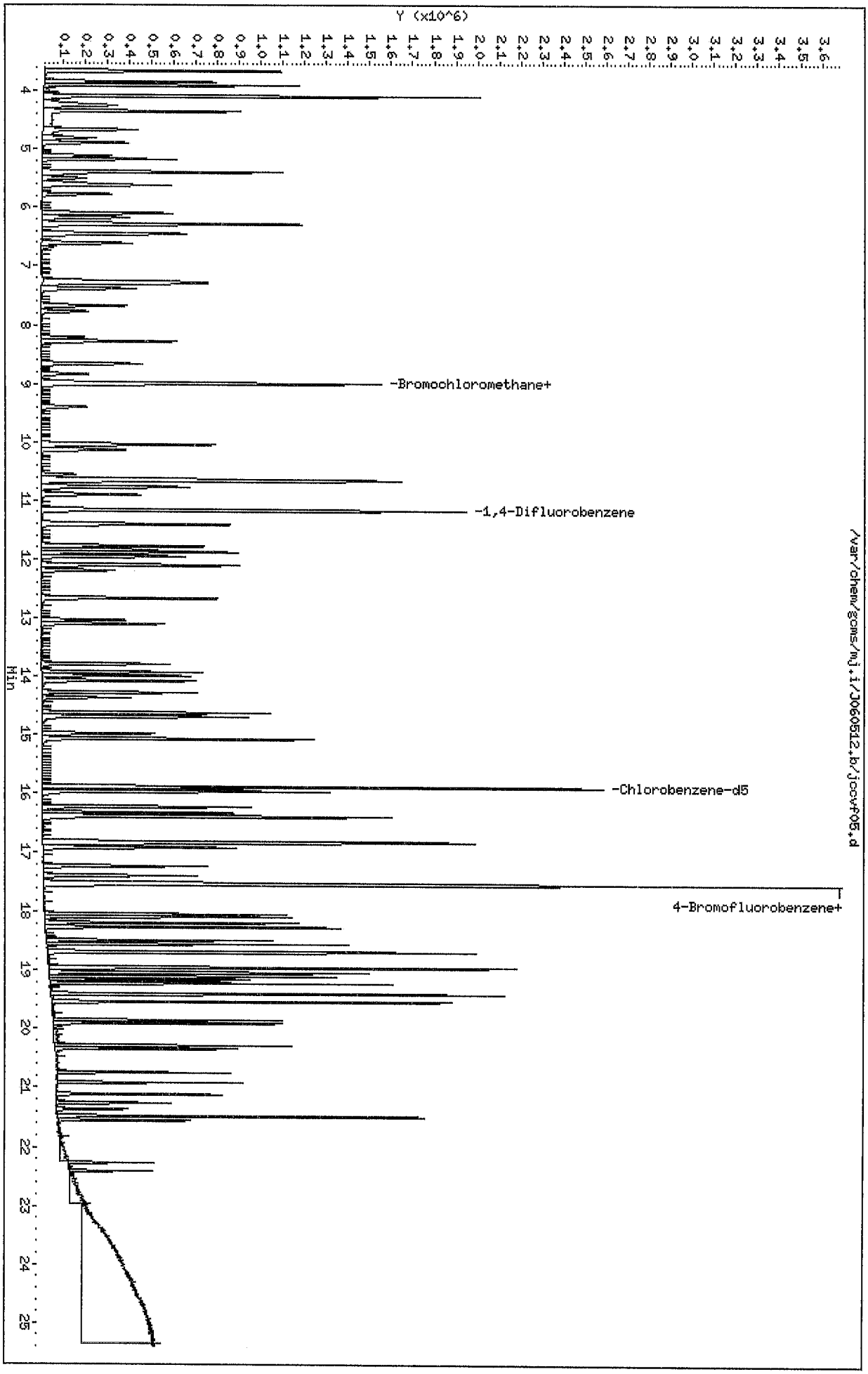
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	ON-COL (ppb(v/v))
17	~ ethanol	31	4.893	4.893	(0.544)	343010	10.4400	10.03
18	Vinyl Bromide	106	5.119	5.119	(0.570)	235513	2.00000	2.108
19	2-methyl butane	43	5.178	5.178	(0.576)	257204	2.00000	1.931
20	Trichlorofluoromethane	101	5.393	5.393	(0.600)	999610	2.00000	2.035
21	Acrolein	56	5.388	5.388	(0.600)	45417	2.00000	1.373
22	Acetonitrile	40	5.447	5.447	(0.606)	62802	2.00000	1.703
23	Acetone	58	5.506	5.506	(0.613)	68300	2.00000	1.308
24	Isopropyl alcohol	45	5.582	5.582	(0.621)	230647	2.00000	1.629
25	Pentane	72	5.625	5.625	(0.626)	33259	2.00000	2.057
26	Ethyl Ether	31	5.775	5.775	(0.643)	176276	2.00000	1.883
27	1,1-Dichloroethene	96	6.103	6.103	(0.679)	235625	2.00000	2.409
28	tert-butanol	59	6.173	6.173	(0.687)	350161	2.00000	1.804
29	Acrylonitrile	53	6.184	6.184	(0.688)	111391	2.00000	1.860
30	1,1,2-Trichlorotrifluoroethane	101	6.286	6.286	(0.700)	574850	2.00000	2.369
31	Methylene Chloride	84	6.442	6.442	(0.717)	207859	2.00000	2.200
32	3-Chloropropene	39	6.464	6.464	(0.719)	257527	2.00000	2.199
33	Carbon Disulfide	76	6.614	6.614	(0.736)	634951	2.00000	1.906
34	trans-1,2-Dichloroethene	96	7.260	7.260	(0.808)	235948	2.00000	2.000
35	~ 2-Methyl Pentane	43	7.292	7.292	(0.811)	482979	2.00000	1.944
36	Methyl-t-Butyl Ether	73	7.378	7.378	(0.821)	511857	2.00000	1.859
37	1,1-Dichloroethane	63	7.674	7.674	(0.854)	446310	2.00000	2.020
38	Vinyl Acetate	43	7.776	7.776	(0.865)	390930	2.00000	1.782
39	2-Butanone	72	8.212	8.212	(0.914)	55994	2.00000	1.381
40	Hexane	56	8.277	8.277	(0.921)	179614	2.00000	1.897
41	cis 1,2-Dichloroethene	96	8.659	8.659	(0.963)	221999	2.00000	2.022
42	Ethyl acetate	43	8.831	8.831	(0.983)	299059	2.00000	1.593
43	Chloroform	83	9.003	9.003	(1.002)	583882	2.00000	1.941
44	Tetrahydrofuran	42	9.396	9.396	(1.045)	149908	2.00000	1.766
45	1,1,1-Trichloroethane	97	10.041	10.041	(1.117)	723002	2.00000	2.005
46	1,2-Dichloroethane	62	10.133	10.133	(0.907)	455234	2.00000	1.804
47	1-Butanol	31	10.558	10.558	(0.945)	51586	2.00000	1.523
48	Benzene	78	10.633	10.633	(0.952)	529456	2.00000	1.641
49	Cyclohexane	69	10.654	10.654	(0.954)	102174	2.00000	1.785
50	Carbon Tetrachloride	117	10.665	10.665	(0.955)	790883	2.00000	2.284
51	~ 2,3-dimethylpentane	71	10.767	10.767	(0.964)	112625	2.06000	1.711
52	~ Thiophene	84	10.902	10.902	(0.976)	310862	2.08000	1.739
53	2,2,4-trimethylpentane	57	11.408	11.408	(1.021)	877505	2.00000	1.649
54	Heptane	71	11.784	11.784	(1.055)	167491	2.00000	1.547
55	1,2-Dichloropropane	63	11.838	11.838	(1.060)	180896	2.00000	1.633
56	Trichloroethene	130	11.881	11.881	(1.064)	312437	2.00000	1.761
180	~ 2-nitropropane	43	11.784	11.784	(1.055)	328727	2.00000	
57	Dibromomethane	93	11.951	11.951	(1.070)	282904	2.00000	1.619
58	Bromodichloromethane	83	12.101	12.101	(1.083)	602732	2.00000	1.767
59	1,4-dioxane	88	12.107	12.107	(1.084)	54237	2.00000	1.375
60	Methyl Methacrylate	41	12.193	12.193	(1.091)	181645	2.00000	1.434
61	~ methyl cyclohexane	83	12.666	12.666	(1.134)	329167	2.08000	1.727
62	4-Methyl-2-pentanone	43	13.037	13.037	(1.167)	291924	2.00000	1.500

Data File: /var/chem/gcms/mj.i/J060512.b/jccvf05.d
Report Date: 06-Jun-2012 11:48

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
63	cis-1,3-Dichloropropene	75	13.102	13.102	(1.173)	310891	2.00000	1.747
64	trans-1,3-Dichloropropene	75	13.791	13.791	(0.868)	355195	2.00000	1.832
65	Toluene	91	13.930	13.930	(0.876)	589516	2.00000	1.713
66	1,1,2-Trichloroethane	83	13.990	13.990	(0.880)	176711	2.00000	1.680
67	~ 2-methyl thiophene	97	14.076	14.076	(0.886)	515024	2.10000	1.772
68	~ 3-methyl thiophene	97	14.280	14.280	(0.898)	512994	2.08000	1.755
69	2-Hexanone	58	14.372	14.372	(0.904)	133560	2.00000	1.467
70	Octane	85	14.630	14.630	(0.920)	190945	2.00000	1.651
71	Dibromochloromethane	129	14.694	14.694	(0.925)	557147	2.00000	1.920
72	1,2-Dibromoethane	107	14.985	14.985	(0.943)	373045	2.00000	1.700
73	Tetrachloroethene	129	15.076	15.076	(0.949)	281848	2.00000	1.656
74	Chlorobenzene	112	15.942	15.942	(1.003)	475275	2.00000	1.687
75	~ 2,3-dimethylheptane	43	15.975	15.975	(1.005)	602045	2.08000	1.862
76	Ethylbenzene	91	16.233	16.233	(1.021)	760911	2.00000	1.744
77	~ 2-ethyl thiophene	97	16.335	16.335	(1.028)	667283	2.06000	1.829
78	m&p-Xylene	91	16.394	16.394	(1.031)	1203865	4.00000	3.467
79	Nonane	57	16.819	16.819	(1.058)	377014	2.00000	1.766
80	Bromoform	173	16.830	16.830	(1.059)	503748	2.00000	1.934
81	Styrene	104	16.857	16.857	(1.061)	386960	2.00000	1.761
82	o-Xylene	91	16.921	16.921	(1.065)	618092	2.00000	1.728
M 83	Xylene (total)	100				1821958	6.00000	5.195
84	1,1,2,2-Tetrachloroethane	83	17.228	17.228	(1.084)	370807	2.00000	1.687
85	1,2,3-Trichloropropane	110	17.389	17.389	(1.094)	124876	2.00000	1.545
86	Cumene	105	17.508	17.508	(1.102)	826537	2.00000	1.667
87	n-Propylbenzene	120	18.040	18.040	(1.135)	193581	2.00000	1.625
88	2-chlorotoluene	126	18.083	18.083	(1.138)	211033	2.00000	1.715
89	4-Ethyltoluene	105	18.186	18.186	(1.144)	753663	2.00000	1.624
90	1,3,5-Trimethylbenzene	120	18.261	18.261	(1.149)	334160	2.00000	1.677
91	Alpha-Methylstyrene	118	18.487	18.487	(1.163)	278740	2.00000	1.675
92	Decane	57	18.551	18.551	(1.167)	389562	2.00000	1.738
93	tert-butylbenzene	119	18.681	18.681	(1.175)	678556	2.00000	1.606
94	1,2,4-Trimethylbenzene	105	18.697	18.697	(1.176)	614064	2.00000	1.616
95	sec-butylbenzene	105	18.950	18.950	(1.192)	826419	2.00000	1.609
96	1,3-Dichlorobenzene	146	18.960	18.960	(1.193)	432704	2.00000	1.572
97	Benzyl Chloride	91	19.030	19.030	(1.197)	493337	2.00000	1.457
98	1,4-Dichlorobenzene	146	19.046	19.046	(1.198)	413770	2.00000	1.540
99	p-Cymene	119	19.111	19.111	(1.202)	686428	2.00000	1.572
100	~ 1,2,3- Trimethylbenzene	105	19.159	19.159	(1.205)	513002	2.08000	1.668
101	~ n-butylcyclohexane	83	19.224	19.224	(1.210)	477622	2.06000	1.908
102	~ Indane	117	19.407	19.407	(1.221)	521135	2.06000	1.655
103	1,2-Dichlorobenzene	146	19.401	19.401	(1.221)	386535	2.00000	1.529
104	n-butylbenzene	91	19.541	19.541	(1.229)	586879	2.00000	1.445
105	~ Indene	116	19.536	19.536	(1.229)	368846	2.10000	1.664
106	Undecane	57	19.853	19.853	(1.249)	265156	2.00000	1.159
107	~ 1,2-dimethyl-4-ethylenzene	119	19.907	19.907	(1.252)	526127	2.06000	1.503
108	~ 1,2,4,5-tetramethylbenzene	119	20.294	20.294	(1.277)	515163	2.06000	1.528
109	~ 1,2,3,5-tetramethylbenzene	119	20.348	20.348	(1.280)	399369	2.10000	1.601

Data File: /var/chem/gcms/mj.i/J060512.b/jccvf05.d
Report Date: 06-Jun-2012 11:48

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ppb(v/v))	AMOUNTS ON-COL (ppb(v/v))
110 ~ 1,2,3,4-tetramethylbenzene	119	20.752	20.752	(1.306)	400904	2.04000	1.514
111 Dodecane	57	20.918	20.918	(1.316)	225318	2.00000	1.616
112 1,2,4-Trichlorobenzene	180	21.117	21.117	(1.329)	211484	2.00000	1.433
113 Napthalene	128	21.263	21.263	(1.338)	367670	2.00000	1.443
114 ~ benzo(b) thiophene	134	21.370	21.370	(1.345)	217225	2.04000	1.497
115 Hexachlorobutadiene	225	21.489	21.489	(1.352)	338207	2.00000	1.620
116 1,2,3-trichlorobenzene	180	21.553	21.553	(1.356)	169629	2.00000	1.636
117 ~ 2-Methylnaphthalene	142	22.269	22.269	(1.401)	128063	12.5000	8.198
118 ~ 1-Methylnaphthalene	142	22.409	22.409	(1.410)	112326	12.5000	7.485


Data File: /var/chem/gcms/mj.i/J060512.b/jccvf05.d
Date : 05-JUN-2012 08:54
Client ID: CCV/LCS
Sample Info: CCV/LCS,,2,6,,CCV/LCS
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+
/var/chem/gcms/mj.i/J060512.b/jccvf05.d
Min

Raw QC Data

New York State D.E.C.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2F040000 - 111B **Work Order #** MTX9G1AA **Matrix.....:** AIR

	05/30/2012	**Date Received..:**	05/31/2012
Prep Date.....:	06/05/2012	**Analysis Date...**	06/05/2012
Prep Batch #.....:	2156111		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
1,1,1-Trichloroethane	ND	0.080	ND	0.44
1,1,2,2-Tetrachloroethane	ND	0.080	ND	0.55
1,1,2-Trichlorotrifluoroethane	ND	0.080	ND	0.61
1,1,2-Trichloroethane	ND	0.080	ND	0.44
1,1-Dichloroethane	ND	0.080	ND	0.32
1,1-Dichloroethene	ND	0.080	ND	0.32
1,2,4-Trichlorobenzene	ND	0.080	ND	0.59
1,2,4-Trimethylbenzene	ND	0.080	ND	0.39
1,2-Dibromoethane (EDB)	ND	0.080	ND	0.61
1,2-Dichlorobenzene	ND	0.080	ND	0.48
1,2-Dichloroethane	ND	0.080	ND	0.32
1,2-Dichloropropane	ND	0.080	ND	0.37
1,3,5-Trimethylbenzene	ND	0.080	ND	0.39
1,4-Dichlorobenzene	ND	0.080	ND	0.48
1,4-Dioxane	ND	0.20	ND	0.72
2-Butanone (MEK)	ND	0.32	ND	0.94
1,3-Dichlorobenzene	ND	0.080	ND	0.48
2,2,4-Trimethylpentane	ND	0.20	ND	0.93
Benzene	ND	0.080	ND	0.26
Benzyl chloride	ND	0.16	ND	0.83
Bromodichloromethane	ND	0.080	ND	0.54
Bromoform	ND	0.080	ND	0.83
Bromomethane	ND	0.080	ND	0.31
Carbon tetrachloride	ND	0.040	ND	0.25
Chlorobenzene	ND	0.080	ND	0.37
Chloroethane	ND	0.080	ND	0.21
Chloroform	ND	0.080	ND	0.39
Cyclohexane	ND	0.20	ND	0.69
Chloromethane	ND	0.20	ND	0.41
cis-1,2-Dichloroethene	ND	0.080	ND	0.32
cis-1,3-Dichloropropene	ND	0.080	ND	0.36
Dibromochloromethane	ND	0.080	ND	0.68
Dichlorodifluoromethane	ND	0.080	ND	0.40
Ethanol	ND	0.80	ND	1.5
Ethylbenzene	ND	0.080	ND	0.35
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ND	0.56
n-Hexane	ND	0.20	ND	0.70

New York State D.E.C.

Client Sample ID: INTRA-LAB BLANK

GC/MS Volatiles

Lot-Sample # H2F040000 - 111B **Work Order #** MTX9G1AA **Matrix.....:** AIR

PARAMETER	RESULTS (ppb(v/v))	REPORTING LIMIT (ppb(v/v))	RESULTS (ug/m3)	REPORTING LIMIT (ug/m3)
Hexachlorobutadiene	ND	0.080	ND	0.85
4-Methyl-2-pentanone (MIBK)	ND	0.20	ND	0.82
Methyl tert-butyl ether	ND	0.16	ND	0.58
Methylene chloride	ND	0.20	ND	0.69
Styrene	ND	0.080	ND	0.34
tert-Butyl alcohol	ND	0.32	ND	0.97
Tetrachloroethene	ND	0.080	ND	0.54
Toluene	ND	0.080	ND	0.30
m-Xylene & p-Xylene	ND	0.080	ND	0.35
o-Xylene	ND	0.080	ND	0.35
trans-1,2-Dichloroethene	ND	0.080	ND	0.32
trans-1,3-Dichloropropene	ND	0.080	ND	0.36
Trichloroethene	ND	0.040	ND	0.21
Trichlorofluoromethane	ND	0.080	ND	0.45
Vinyl chloride	ND	0.080	ND	0.20

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	101	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mj.i/J060512.b/jblkf05.d
Report Date: 06-Jun-2012 12:18

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J060512.b/jblkf05.d
Lab Smp Id: MTX9G1AA Client Smp ID: BLANK
Inj Date : 05-JUN-2012 10:53
Operator : 7126 Inst ID: mj.i
Smp Info : MTX9G1AA,,3,,,BLANK
Misc Info : J060512,TO15,1-all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J060512.b/TO15.m
Meth Date : 06-Jun-2012 11:48 barlozha Quant Type: ISTD
Cal Date : 24-MAY-2012 13:43 Cal File: jice241.d
Als bottle: 14 QC Sample: BLANK
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: 1-all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	500.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.979	8.987	(1.000)	371375	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.163	11.171	(1.000)	1418124	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.892	15.894	(1.000)	1293918	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.532	17.529	(1.103)	1031113	4.03665	4.037
	13 n-Butane	43	4.342	4.350	(0.484)	5158	0.03057	0.03057
	19 2-methyl butane	43	5.181	5.178	(0.577)	3684	0.02783	0.02783
	31 Methylene Chloride	84	6.440	6.442	(0.717)	10602	0.11293	0.1129
	47 1-Butanol	31	10.593	10.558	(0.949)	1594	0.05707	0.05706
	116 1,2,3-trichlorobenzene	180	21.551	21.553	(1.356)	1056	0.04064	0.04064

Data File: /var/chem/gcms/mj.i/J060512.b/jblkf05.d
Report Date: 06-Jun-2012 12:16

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jblkf05.d
Lab Smp Id: MTX9G1AA
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,1-all.sub,,,

Calibration Date: 05-JUN-2012
Calibration Time: 08:54
Client Smp ID: BLANK
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	373662	222329	524995	371375	-0.61
2 1,4-Difluorobenze	1719152	1022895	2415409	1418124	-17.51
3 Chlorobenzene-d5	1506917	896616	2117218	1293918	-14.13

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.98	-0.08
2 1,4-Difluorobenze	11.17	10.84	11.50	11.16	-0.07
3 Chlorobenzene-d5	15.89	15.56	16.22	15.89	-0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

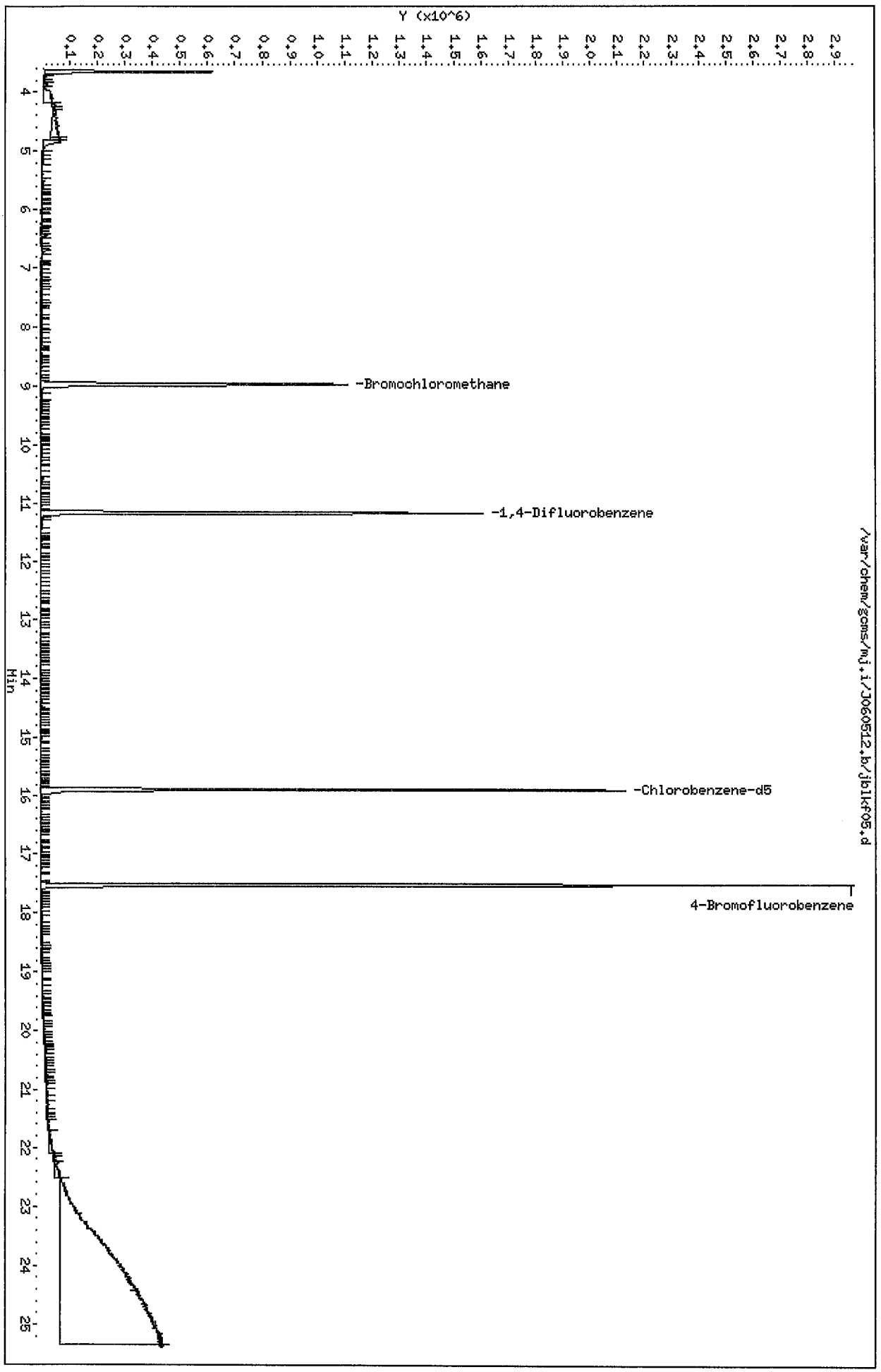
Data File: /var/chem/gcms/mj.i/J060512.b/jblkf05.d
Report Date: 06-Jun-2012 12:18

TestAmerica Knoxville

RECOVERY REPORT

Client Name:
Client SDG: J060512
Sample Matrix: GAS
Fraction: OTHER
Lab Smp Id: MTX9G1AA
Client Smp ID: BLANK
Level: LOW
Operator: 7126
Data Type: MS DATA
SampleType: BLANK
SpikeList File: allnew.spk
Quant Type: ISTD
Sublist File: 1-all.sub
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,1-all.sub,,,

SURROGATE COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	4.000	4.037	100.92	70-130


Data File: /var/chem/gcms/mj.i/J060512.b/jblkf05.d
Date : 05-JUN-2012 10:53
Client ID: BLANK
Sample Info: HTX9G1AA,,3,,,BLANK
Purge Volume: 500.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
-Bromochloromethane
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene
/var/chem/gcms/mj.i/J060512.b/jblkf05.d
Min

Data File: /var/chem/gcms/mj.i/J060512.b/jblkf05.d

Date : 05-JUN-2012 10:53

Client ID: BLANK

Instrument: mj.i

Sample Info: MTX9G1AA,,3,,,BLANK

Purge Volume: 500.0

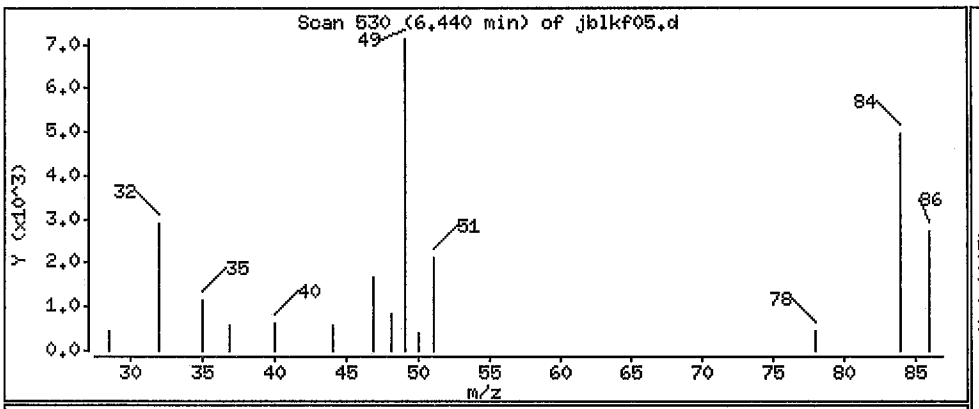
Operator: 7126

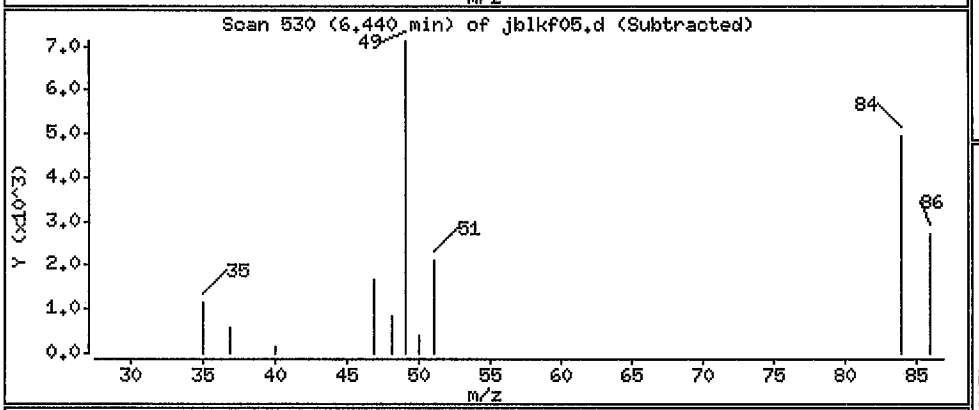
Column phase: Rtx-5

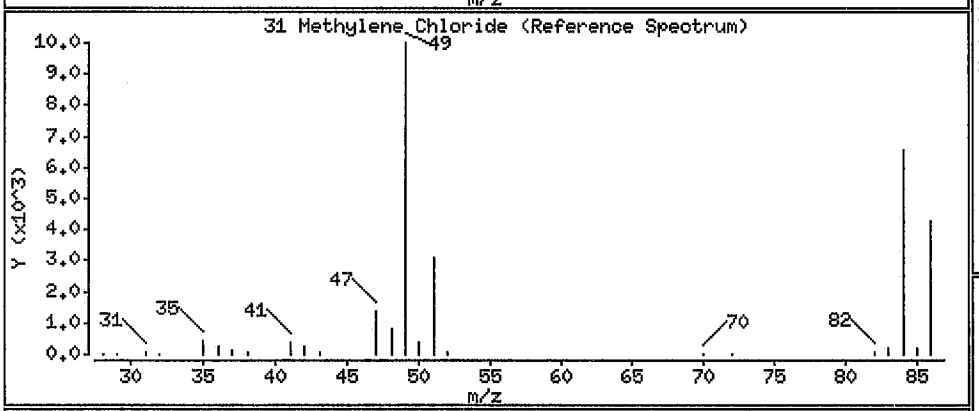
Column diameter: 0.32

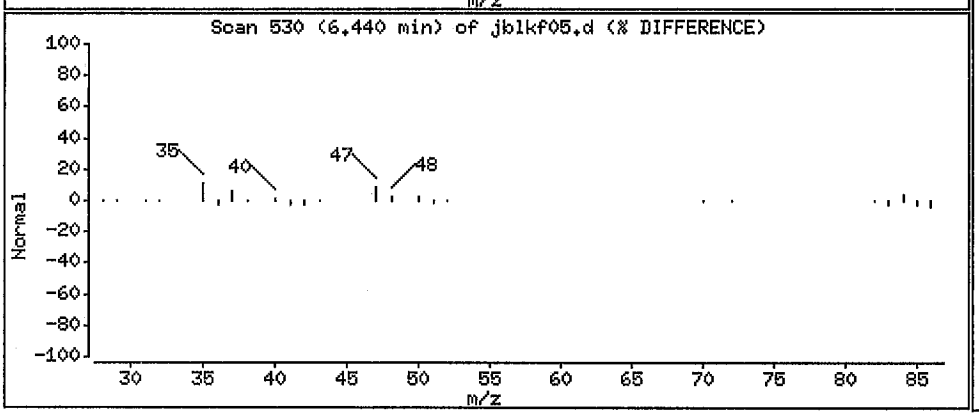
31 Methylene Chloride

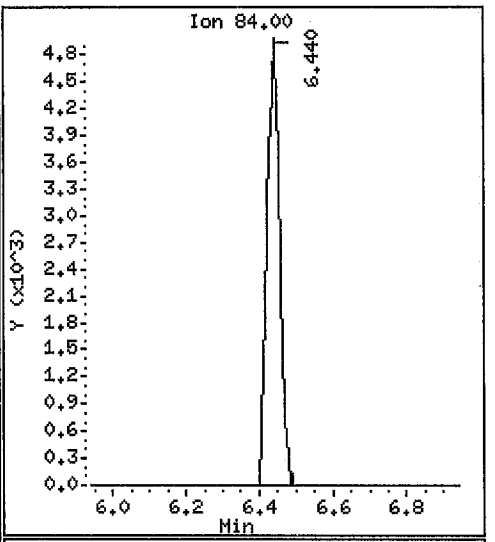
Concentration: 0.1129 ppb(v/v)

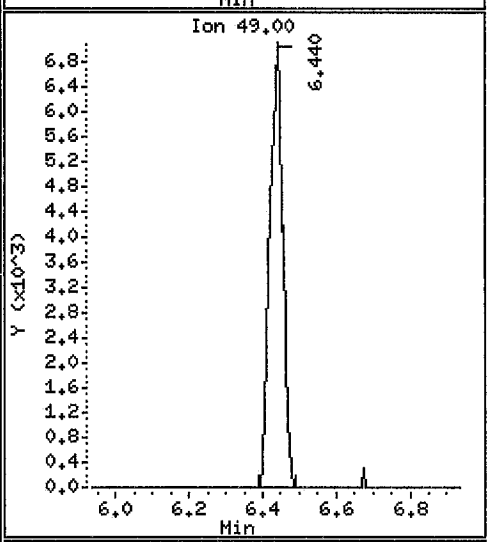


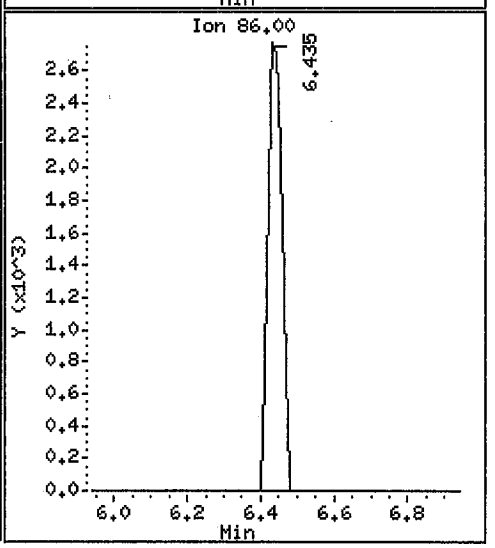












New York State D.E.C.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2F040000 - 111C **Work Order #** MTX9G1AC **Matrix.....:** AIR

	05/30/2012	**Date Received..:**	05/31/2012
Prep Date.....:	06/05/2012	**Analysis Date...**	06/05/2012
Prep Batch #.....:	2156111		
Dilution Factor.:	1	**Method.....:**	TO-15

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
1,1,1-Trichloroethane	5.00	5.01	27	27.3	100	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.22	34	29.0	84	70 - 130
1,1,2-Trichlorotrifluoroethane	5.00	5.92	38	45.4	118	70 - 130
1,1,2-Trichloroethane	5.00	4.20	27	22.9	84	70 - 130
1,1-Dichloroethane	5.00	5.05	20	20.4	101	70 - 130
1,1-Dichloroethene	5.00	6.02	20	23.9	120	70 - 130
1,2,4-Trichlorobenzene	5.00	3.58	37	26.6	72	60 - 140
1,2,4-Trimethylbenzene	5.00	4.04	25	19.9	81	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.25	38	32.7	85	70 - 130
1,2-Dichlorobenzene	5.00	3.82	30	23.0	76	70 - 130
1,2-Dichloroethane	5.00	4.51	20	18.3	90	70 - 130
1,2-Dichloropropane	5.00	4.08	23	18.9	82	70 - 130
1,3,5-Trimethylbenzene	5.00	4.19	25	20.6	84	70 - 130
1,4-Dichlorobenzene	5.00	3.85	30	23.1	77	70 - 130
1,4-Dioxane	5.00	3.44	18	12.4	69	60 - 140
2-Butanone (MEK)	5.00	3.45	15	10.2	69	60 - 140
1,3-Dichlorobenzene	5.00	3.93	30	23.6	79	70 - 130
2,2,4-Trimethylpentane	5.00	4.12	23	19.3	82	70 - 130
Benzene	5.00	4.10	16	13.1	82	70 - 130
Benzyl chloride	5.00	3.64	26	18.9	73	70 - 130
Bromodichloromethane	5.00	4.42	34	29.6	88	70 - 130
Bromoform	5.00	4.84	52	50.0	97	60 - 140
Bromomethane	5.00	4.55	19	17.7	91	70 - 130
Carbon tetrachloride	5.00	5.71	31	35.9	114	70 - 130
Chlorobenzene	5.00	4.22	23	19.4	84	70 - 130
Chloroethane	5.00	4.83	13	12.7	97	70 - 130
Chloroform	5.00	4.85	24	23.7	97	70 - 130
Cyclohexane	5.00	4.46	17	15.4	89	70 - 130
Chloromethane	5.00	4.97	10	10.3	99	60 - 140
cis-1,2-Dichloroethene	5.00	5.06	20	20.0	101	70 - 130
cis-1,3-Dichloropropene	5.00	4.37	23	19.8	87	70 - 130
Dibromochloromethane	5.00	4.80	43	40.9	96	70 - 130
Dichlorodifluoromethane	5.00	5.01	25	24.8	100	60 - 140
Ethanol	24.6	25.1	46	47.2	102	20 - 180
Ethylbenzene	5.00	4.36	22	18.9	87	70 - 130
1,2-Dichloro-1,1,2,2-tetrafluoroethane	5.00	4.82	35	33.7	96	60 - 140

New York State D.E.C.

Client Sample ID: CHECK SAMPLE

GC/MS Volatiles

Lot-Sample # H2F040000 - 111C **Work Order #** MTX9G1AC **Matrix.....:** AIR

PARAMETER	SPIKE AMOUNT (ppb(v/v))	MEASURED AMOUNT (ppb(v/v))	SPIKE AMOUNT (ug/m3)	MEASURED AMOUNT (ug/m3)	PERCENT RECOVERY	RECOVERY LIMITS
n-Hexane	5.00	4.74	18	16.7	95	70 - 130
Hexachlorobutadiene	5.00	4.05	53	43.2	81	60 - 140
4-Methyl-2-pentanone (MIBK)	5.00	3.75	20	15.4	75	60 - 140
Methyl tert-butyl ether	5.00	4.65	18	16.8	93	60 - 140
Methylene chloride	5.00	5.50	17	19.1	110	70 - 130
Styrene	5.00	4.40	21	18.8	88	70 - 130
tert-Butyl alcohol	5.00	4.51	15	13.7	90	60 - 140
Tetrachloroethene	5.00	4.14	34	28.1	83	70 - 130
Toluene	5.00	4.28	19	16.1	86	70 - 130
m-Xylene & p-Xylene	10.0	8.67	43	37.6	87	70 - 130
o-Xylene	5.00	4.32	22	18.8	86	70 - 130
trans-1,2-Dichloroethene	5.00	5.00	20	19.8	100	70 - 130
trans-1,3-Dichloropropene	5.00	4.58	23	20.8	92	70 - 130
Trichloroethene	5.00	4.40	27	23.7	88	70 - 130
Trichlorofluoromethane	5.00	5.09	28	28.6	102	60 - 140
Vinyl chloride	5.00	4.70	13	12.0	94	70 - 130

SURROGATE	PERCENT RECOVERY	LABORATORY CONTROL LIMITS (%)
4-Bromofluorobenzene	100	60 - 140

The 'Result' in ug/m3 is calculated using the following equation: Amount Found(before rounding)*(Molecular Weight/24.45)

The 'Reporting Limit' in ug/m3 is calculated using the following equation: (Reporting Limit(before rounding) * Dilution Factor) * (Molecular Weight/24.45)

Data File: /var/chem/gcms/mj.i/J060512.b/jlcsf05.d
Report Date: 06-Jun-2012 12:15

TestAmerica Knoxville

Modified Method TO-14/TO-15

Data file : /var/chem/gcms/mj.i/J060512.b/jlcsf05.d
Lab Smp Id: MTX9G1AC Client Smp ID: CCV/LCS
Inj Date : 05-JUN-2012 08:54
Operator : 7126 Inst ID: mj.i
Smp Info : MTX9G1AC,,2,6,,CCV/LCS
Misc Info : J060512,TO15,all.sub,,,
Comment :
Method : /var/chem/gcms/mj.i/J060512.b/TO15.m
Meth Date : 06-Jun-2012 11:48 barlozha Quant Type: ISTD
Cal Date : 24-MAY-2012 13:43 Cal File: jice241.d
Als bottle: 1 QC Sample: LCS
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.50

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

Name	Value	Description
DF	1.00000	Dilution Factor
Vt	500.00000	Default Calibration Volume
Vo	200.00000	Default Sample Volume

Cpnd Variable Local Compound Variable

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
*	1 Bromochloromethane	128	8.987	8.987	(1.000)	373662	4.00000	4.000
*	2 1,4-Difluorobenzene	114	11.171	11.171	(1.000)	1719152	4.00000	4.000
*	3 Chlorobenzene-d5	117	15.894	15.894	(1.000)	1506917	4.00000	4.000
$	4 4-Bromofluorobenzene	95	17.529	17.529	(1.103)	1196157	4.02088	10.05
	5 Chlorodifluoromethane	67	3.839	3.839	(0.427)	113618	2.01928	5.048
	6 Propene	41	3.849	3.849	(0.428)	204052	1.89597	4.740
	7 Dichlorodifluoromethane	85	3.903	3.903	(0.434)	1038997	2.00370	5.009
	8 Chloromethane	52	4.086	4.086	(0.455)	73801	1.98890	4.972
	9 1,2-Dichlorotetrafluoroethane	135	4.091	4.091	(0.455)	656863	1.92718	4.818
	11 ~ acetaldehyde	44	4.237	4.237	(0.471)	109334	3.15987	7.900(R)
	12 Vinyl Chloride	62	4.258	4.258	(0.474)	271309	1.88133	4.703
	13 n-Butane	43	4.350	4.350	(0.484)	343596	2.02390	5.060
	14 1,3-Butadiene	54	4.344	4.344	(0.483)	192649	2.00151	5.004
	15 Bromomethane	94	4.672	4.672	(0.520)	288617	1.82002	4.550
	16 Chloroethane	64	4.812	4.812	(0.535)	122464	1.93218	4.830
	17 ~ ethanol	31	4.893	4.893	(0.544)	343010	10.0276	25.07

Data File: /var/chem/gcms/mj.i/J060512.b/jlcsf05.d
Report Date: 06-Jun-2012 12:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
18 Vinyl Bromide	106	5.119	5.119	(0.570)	235513	2.10822	5.270
19 2-methyl butane	43	5.178	5.178	(0.576)	257204	1.93087	4.827
20 Trichlorofluoromethane	101	5.393	5.393	(0.600)	999610	2.03489	5.087
21 Acrolein	56	5.388	5.388	(0.600)	45417	1.37310	3.433
22 Acetonitrile	40	5.447	5.447	(0.606)	62802	1.70340	4.258
23 Acetone	58	5.506	5.506	(0.613)	68300	1.30769	3.269
24 Isopropyl alcohol	45	5.582	5.582	(0.621)	230647	1.62904	4.072
25 Pentane	72	5.625	5.625	(0.626)	33259	2.05698	5.142
26 Ethyl Ether	31	5.775	5.775	(0.643)	176276	1.88288	4.707
27 1,1-Dichloroethene	96	6.103	6.103	(0.679)	235625	2.40904	6.022
28 tert-butanol	59	6.173	6.173	(0.687)	350161	1.80358	4.509
29 Acrylonitrile	53	6.184	6.184	(0.688)	111391	1.86001	4.650
30 1,1,2-Trichlorotrifluoroethane	101	6.286	6.286	(0.700)	574850	2.36867	5.922
31 Methylene Chloride	84	6.442	6.442	(0.717)	207859	2.20044	5.501
32 3-Chloropropene	39	6.464	6.464	(0.719)	257527	2.19924	5.498
33 Carbon Disulfide	76	6.614	6.614	(0.736)	634951	1.90556	4.764
34 trans-1,2-Dichloroethene	96	7.260	7.260	(0.808)	235948	2.00003	5.000
35 ~ 2-Methyl Pentane	43	7.292	7.292	(0.811)	482979	1.94423	4.860
36 Methyl-t-Butyl Ether	73	7.378	7.378	(0.821)	511857	1.85865	4.647
37 1,1-Dichloroethane	63	7.674	7.674	(0.854)	446310	2.01968	5.049
38 Vinyl Acetate	43	7.776	7.776	(0.865)	390930	1.78225	4.456
39 2-Butanone	72	8.212	8.212	(0.914)	55994	1.38067	3.452
40 Hexane	56	8.277	8.277	(0.921)	179614	1.89722	4.743
41 cis 1,2-Dichloroethene	96	8.659	8.659	(0.963)	221999	2.02201	5.055
42 Ethyl acetate	43	8.831	8.831	(0.983)	299059	1.59313	3.983
43 Chloroform	83	9.003	9.003	(1.002)	583882	1.94148	4.854
44 Tetrahydrofuran	42	9.396	9.396	(1.045)	149908	1.76611	4.415
45 1,1,1-Trichloroethane	97	10.041	10.041	(1.117)	723002	2.00498	5.012
46 1,2-Dichloroethane	62	10.133	10.133	(0.907)	455234	1.80390	4.510
47 1-Butanol	31	10.558	10.558	(0.945)	51586	1.52342	3.808
48 Benzene	78	10.633	10.633	(0.952)	529456	1.64094	4.102
49 Cyclohexane	69	10.654	10.654	(0.954)	102174	1.78486	4.462
50 Carbon Tetrachloride	117	10.665	10.665	(0.955)	790883	2.28434	5.711
51 ~ 2,3-dimethylpentane	71	10.767	10.767	(0.964)	112625	1.71143	4.278
52 ~ Thiophene	84	10.902	10.902	(0.976)	310862	1.73929	4.348
53 2,2,4-trimethylpentane	57	11.408	11.408	(1.021)	877505	1.64946	4.124
54 Heptane	71	11.784	11.784	(1.055)	167491	1.54707	3.868
55 1,2-Dichloropropane	63	11.838	11.838	(1.060)	180896	1.63312	4.083
56 Trichloroethene	130	11.881	11.881	(1.064)	312437	1.76079	4.402
180 ~ 2-nitropropane	43	11.784	11.784	(1.055)	328727		
57 Dibromomethane	93	11.951	11.951	(1.070)	282904	1.61861	4.046
58 Bromodichloromethane	83	12.101	12.101	(1.083)	602732	1.76669	4.417
59 1,4-dioxane	88	12.107	12.107	(1.084)	54237	1.37497	3.437
60 Methyl Methacrylate	41	12.193	12.193	(1.091)	181645	1.43372	3.584
61 ~ methyl cyclohexane	83	12.666	12.666	(1.134)	329167	1.72744	4.318
62 4-Methyl-2-pentanone	43	13.037	13.037	(1.167)	291924	1.50033	3.751
63 cis-1,3-Dichloropropene	75	13.102	13.102	(1.173)	310891	1.74735	4.368

Data File: /var/chem/gcms/mj.i/J060512.b/jlcsf05.d
Report Date: 06-Jun-2012 12:15

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	CONCENTRATIONS FINAL (ppb(v/v))
	64 trans-1,3-Dichloropropene	75	13.791	13.791	(0.868)	355195	1.83164	4.579
	65 Toluene	91	13.930	13.930	(0.876)	589516	1.71279	4.282
	66 1,1,2-Trichloroethane	83	13.990	13.990	(0.880)	176711	1.68056	4.201
	67 ~ 2-methyl thiophene	97	14.076	14.076	(0.886)	515024	1.77192	4.430
	68 ~ 3-methyl thiophene	97	14.280	14.280	(0.898)	512994	1.75519	4.388
	69 2-Hexanone	58	14.372	14.372	(0.904)	133560	1.46710	3.668
	70 Octane	85	14.630	14.630	(0.920)	190945	1.65111	4.128
	71 Dibromochloromethane	129	14.694	14.694	(0.925)	557147	1.91985	4.800
	72 1,2-Dibromoethane	107	14.985	14.985	(0.943)	373045	1.70053	4.251
	73 Tetrachloroethene	129	15.076	15.076	(0.949)	281848	1.65571	4.139
	74 Chlorobenzene	112	15.942	15.942	(1.003)	475275	1.68725	4.218
	75 ~ 2,3-dimethylheptane	43	15.975	15.975	(1.005)	602045	1.86153	4.654
	76 Ethylbenzene	91	16.233	16.233	(1.021)	760911	1.74437	4.361
	77 ~ 2-ethyl thiophene	97	16.335	16.335	(1.028)	667283	1.82929	4.573
	78 m&p-Xylene	91	16.394	16.394	(1.031)	1203865	3.46701	8.668
	79 Nonane	57	16.819	16.819	(1.058)	377014	1.76558	4.414
	80 Bromoform	173	16.830	16.830	(1.059)	503748	1.93392	4.835
	81 Styrene	104	16.857	16.857	(1.061)	386960	1.76122	4.403
	82 o-Xylene	91	16.921	16.921	(1.065)	618092	1.72788	4.320
M	83 Xylene (total)	100				1821957	5.19489	12.99
	84 1,1,2,2-Tetrachloroethane	83	17.228	17.228	(1.084)	370807	1.68732	4.218
	85 1,2,3-Trichloropropane	110	17.389	17.389	(1.094)	124876	1.54520	3.863
	86 Cumene	105	17.508	17.508	(1.102)	826537	1.66711	4.168
	87 n-Propylbenzene	120	18.040	18.040	(1.135)	193581	1.62528	4.063
	88 2-chlorotoluene	126	18.083	18.083	(1.138)	211033	1.71524	4.288
	89 4-Ethyltoluene	105	18.186	18.186	(1.144)	753663	1.62376	4.059
	90 1,3,5-Trimethylbenzene	120	18.261	18.261	(1.149)	334160	1.67697	4.192
	91 Alpha-Methylstyrene	118	18.487	18.487	(1.163)	278740	1.67492	4.187
	92 Decane	57	18.551	18.551	(1.167)	389562	1.73807	4.345
	93 tert-butylbenzene	119	18.681	18.681	(1.175)	678556	1.60613	4.015
	94 1,2,4-Trimethylbenzene	105	18.697	18.697	(1.176)	614064	1.61550	4.039
	95 sec-butylbenzene	105	18.950	18.950	(1.192)	826419	1.60922	4.023
	96 1,3-Dichlorobenzene	146	18.960	18.960	(1.193)	432704	1.57159	3.929
	97 Benzyl Chloride	91	19.030	19.030	(1.197)	493337	1.45728	3.643
	98 1,4-Dichlorobenzene	146	19.046	19.046	(1.198)	413770	1.53992	3.850
	99 p-Cymene	119	19.111	19.111	(1.202)	686428	1.57153	3.929
	100 ~ 1,2,3- Trimethylbenzene	105	19.159	19.159	(1.205)	513002	1.66841	4.171
	101 ~ n-butylcyclohexane	83	19.224	19.224	(1.210)	477622	1.90790	4.770
	102 ~ Indane	117	19.407	19.407	(1.221)	521135	1.65499	4.137
	103 1,2-Dichlorobenzene	146	19.401	19.401	(1.221)	386535	1.52940	3.824
	104 n-butylbenzene	91	19.541	19.541	(1.229)	586879	1.44543	3.614
	105 ~ Indene	116	19.536	19.536	(1.229)	368846	1.66352	4.159
	106 Undecane	57	19.853	19.853	(1.249)	265156	1.15942	2.898(R)
	107 ~ 1,2-dimethyl-4-ethylenzene	119	19.907	19.907	(1.252)	526127	1.50274	3.757
	108 ~ 1,2,4,5-tetramethylbenzene	119	20.294	20.294	(1.277)	515163	1.52810	3.820
	109 ~ 1,2,3,5-tetramethylbenzene	119	20.348	20.348	(1.280)	399369	1.60143	4.004
	110 ~ 1,2,3,4-tetramethylbenzene	119	20.752	20.752	(1.306)	400904	1.51447	3.786

Data File: /var/chem/gcms/mj.i/J060512.b/jlcsf05.d
Report Date: 06-Jun-2012 12:15

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ppb(v/v))	FINAL (ppb(v/v))
111 Dodecane	57	20.918	20.918	(1.316)	225318	1.61569	4.039
112 1,2,4-Trichlorobenzene	180	21.117	21.117	(1.329)	211484	1.43286	3.582
113 Napthalene	128	21.263	21.263	(1.338)	367670	1.44291	3.607
114 ~ benzo(b) thiophene	134	21.370	21.370	(1.345)	217225	1.49721	3.743
115 Hexachlorobutadiene	225	21.489	21.489	(1.352)	338207	1.62047	4.051
116 1,2,3-trichlorobenzene	180	21.553	21.553	(1.356)	169629	1.63565	4.089
117 ~ 2-Methylnaphthalene	142	22.269	22.269	(1.401)	128063	8.19845	20.50(R)
118 ~ 1-Methylnaphthalene	142	22.409	22.409	(1.410)	112326	7.48512	18.71(R)

QC Flag Legend

R - Spike/Surrogate failed recovery limits.

Data File: /var/chem/gcms/mj.i/J060512.b/jlcsf05.d
Report Date: 06-Jun-2012 12:15

TestAmerica Knoxville

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: mj.i
Lab File ID: jlcsf05.d
Lab Smp Id: MTX9G1AC
Analysis Type: OTHER
Quant Type: ISTD
Operator: 7126
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,all.sub,,,

Calibration Date: 05-JUN-2012
Calibration Time: 08:54
Client Smp ID: CCV/LCS
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	373662	222329	524995	373662	0.00
2 1,4-Difluorobenze	1719152	1022895	2415409	1719152	0.00
3 Chlorobenzene-d5	1506917	896616	2117218	1506917	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
1 Bromochloromethan	8.99	8.66	9.32	8.99	0.00
2 1,4-Difluorobenze	11.17	10.84	11.50	11.17	0.00
3 Chlorobenzene-d5	15.89	15.56	16.22	15.89	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.33 minutes of internal standard RT.
RT LOWER LIMIT = - 0.33 minutes of internal standard RT.

Data File: /var/chem/gcms/mj.i/J060512.b/jlcsf05.d
Report Date: 06-Jun-2012 12:15

TestAmerica Knoxville

RECOVERY REPORT

Client Name:
Client SDG: J060512
Sample Matrix: GAS
Fraction: OTHER
Lab Smp Id: MTX9G1AC
Client Smp ID: CCV/LCS
Level: LOW
Operator: 7126
Data Type: MS DATA
SampleType: LCS
SpikeList File: allnew.spk
Quant Type: ISTD
Sublist File: all.sub
Method File: /var/chem/gcms/mj.i/J060512.b/TO15.m
Misc Info: J060512,TO15,all.sub,,,

SPIKE	COMPOUND	CONC ADDED ppb(v/v)	CONC RECOVERED ppb(v/v)	% RECOVERED	LIMITS
5	Chlorodifluorometh	5.000	5.048	100.96	60-140
6	Propene	5.000	4.740	94.80	60-140
7	Dichlorodifluorome	5.000	5.009	100.18	60-140
8	Chloromethane	5.000	4.972	99.44	60-140
9	1,2-Dichlorotetraf	5.000	4.818	96.36	60-140
10	Methanol	5.000	0.2970	5.94*	60-140
11	~ acetaldehyde	23.80	7.900	33.19*	70-130
12	Vinyl Chloride	5.000	4.703	94.07	70-130
13	n-Butane	5.000	5.060	101.20	60-140
14	1,3-Butadiene	5.000	5.004	100.08	60-140
15	Bromomethane	5.000	4.550	91.00	70-130
16	Chloroethane	5.000	4.830	96.61	70-130
17	~ ethanol	24.55	25.07	102.11	70-130
18	Vinyl Bromide	5.000	5.270	105.41	60-140
19	2-methyl butane	5.000	4.827	96.54	70-130
20	Trichlorofluoromet	5.000	5.087	101.74	60-140
21	Acrolein	5.000	3.433	68.65	60-140
22	Acetonitrile	5.000	4.258	85.17	60-140
23	Acetone	5.000	3.269	65.38	60-140
25	Pentane	5.000	5.142	102.85	70-130
24	Isopropyl alcohol	5.000	4.072	81.45	60-140
26	Ethyl Ether	5.000	4.707	94.14	60-140
27	1,1-Dichloroethene	5.000	6.022	120.45	70-130
28	tert-butanol	5.000	4.509	90.18	60-140
29	Acrylonitrile	5.000	4.650	93.00	60-140
30	1,1,2-Trichlorotri	5.000	5.922	118.43	70-130
31	Methylene Chloride	5.000	5.501	110.02	70-130
32	3-Chloropropene	5.000	5.498	109.96	60-140
33	Carbon Disulfide	5.000	4.764	95.28	70-130
34	trans-1,2-Dichloro	5.000	5.000	100.00	70-130
35	~ 2-Methyl Pentane	5.000	4.860	97.21	70-130
36	Methyl-t-Butyl Eth	5.000	4.647	92.93	60-140
37	1,1-Dichloroethane	5.000	5.049	100.98	70-130

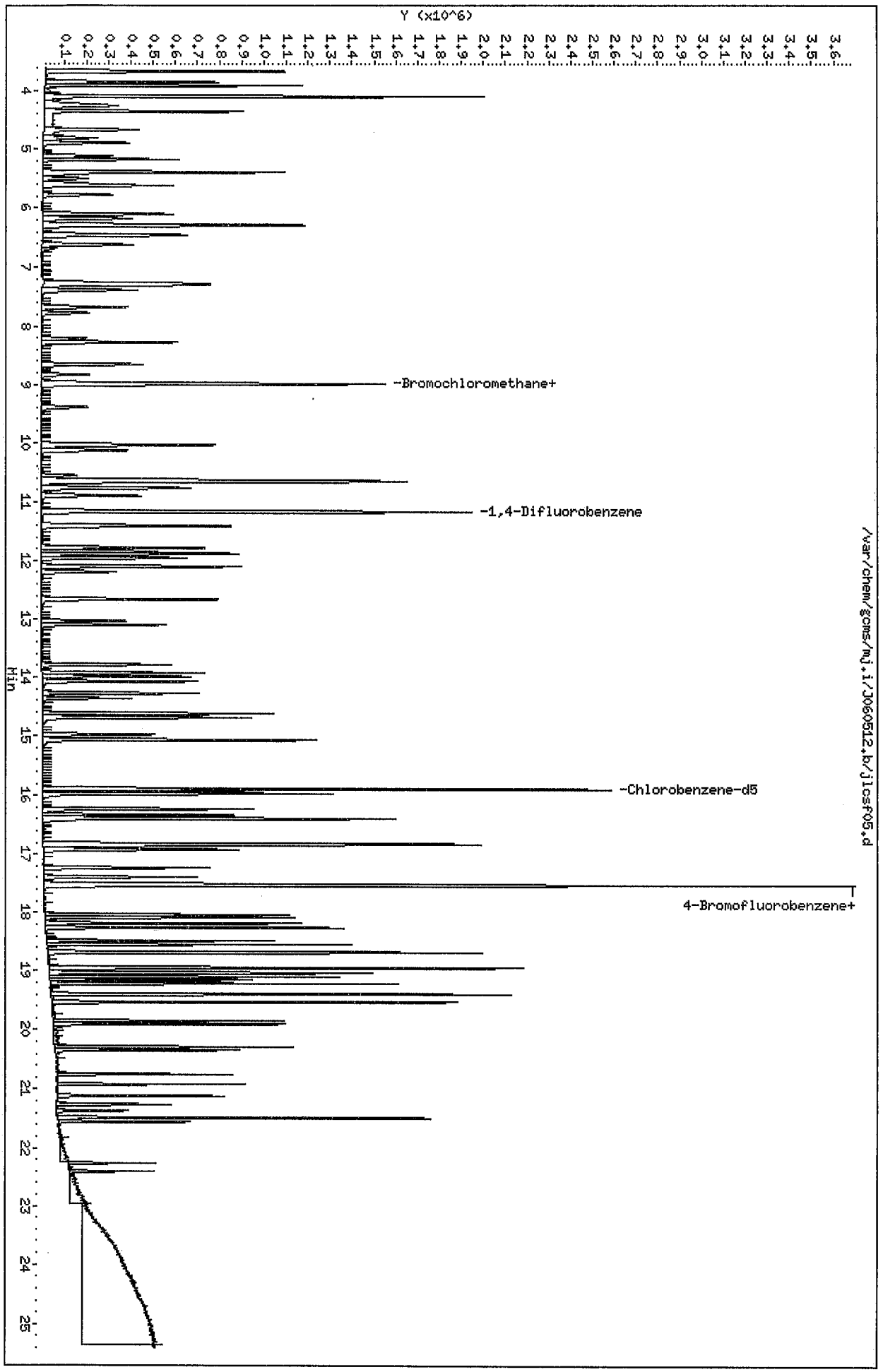
Data File: /var/chem/gcms/mj.i/J060512.b/jlcsf05.d
Report Date: 06-Jun-2012 12:15

	SPIKE	COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
	38	Vinyl Acetate	5.000	4.456	89.11	60-140
	39	2-Butanone	5.000	3.452	69.03	60-140
	40	Hexane	5.000	4.743	94.86	70-130
	41	cis 1,2-Dichloroet	5.000	5.055	101.10	70-130
	42	Ethyl acetate	5.000	3.983	79.66	60-140
	43	Chloroform	5.000	4.854	97.07	70-130
	44	Tetrahydrofuran	5.000	4.415	88.31	60-140
	45	1,1,1-Trichloroeth	5.000	5.012	100.25	70-130
	46	1,2-Dichloroethane	5.000	4.510	90.20	70-130
	47	1-Butanol	5.000	3.808	76.17	60-140
	48	Benzene	5.000	4.102	82.05	70-130
	49	Cyclohexane	5.000	4.462	89.24	70-130
	50	Carbon Tetrachlori	5.000	5.711	114.22	70-130
	51	~ 2,3-dimethylpent	5.000	4.278	85.57	70-130
	52	~ Thiophene	5.000	4.348	86.96	70-130
	53	2,2,4-trimethylpen	5.000	4.124	82.47	70-130
	54	Heptane	5.000	3.868	77.35	70-130
	55	1,2-Dichloropropan	5.000	4.083	81.66	70-130
	56	Trichloroethene	5.000	4.402	88.04	70-130
	57	Dibromomethane	5.000	4.046	80.93	70-130
	58	Bromodichlorometha	5.000	4.417	88.33	70-130
	59	1,4-dioxane	5.000	3.437	68.75	60-140
	60	Methyl Methacrylat	5.000	3.584	71.69	60-140
	61	~ methyl cyclohexa	5.000	4.318	86.37	70-130
	62	4-Methyl-2-pentano	5.000	3.751	75.02	60-140
	63	cis-1,3-Dichloropr	5.000	4.368	87.37	70-130
	64	trans-1,3-Dichloro	5.000	4.579	91.58	70-130
	65	Toluene	5.000	4.282	85.64	70-130
	66	1,1,2-Trichloroeth	5.000	4.201	84.03	70-130
	67	~ 2-methyl thiophe	5.000	4.430	88.60	70-130
	68	~ 3-methyl thiophe	5.000	4.388	87.76	70-130
	69	2-Hexanone	5.000	3.668	73.36	60-140
	70	Octane	5.000	4.128	82.56	70-130
	71	Dibromochlorometha	5.000	4.800	95.99	70-130
	72	1,2-Dibromoethane	5.000	4.251	85.03	70-130
	73	Tetrachloroethene	5.000	4.139	82.79	70-130
	74	Chlorobenzene	5.000	4.218	84.36	70-130
	75	~ 2,3-dimethylhept	5.000	4.654	93.08	70-130
	76	Ethylbenzene	5.000	4.361	87.22	70-130
	77	~ 2-ethyl thiophen	5.000	4.573	91.46	70-130
	78	m&p-Xylene	10.00	8.668	86.68	70-130
M	83	Xylene (total)	15.00	12.99	86.58	70-130
	79	Nonane	5.000	4.414	88.28	60-140
	80	Bromoform	5.000	4.835	96.70	60-140
	81	Styrene	5.000	4.403	88.06	70-130
	82	o-Xylene	5.000	4.320	86.39	70-130
	84	1,1,2,2-Tetrachlor	5.000	4.218	84.37	70-130

Data File: /var/chem/gcms/mj.i/J060512.b/jlcsf05.d
Report Date: 06-Jun-2012 12:15

SPIKE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
85 1,2,3-Trichloropro	5.000	3.863	77.26	60-140
86 Cumene	5.000	4.168	83.36	70-130
87 n-Propylbenzene	5.000	4.063	81.26	70-130
88 2-chlorotoluene	5.000	4.288	85.76	70-130
89 4-Ethyltoluene	5.000	4.059	81.19	70-130
90 1,3,5-Trimethylben	5.000	4.192	83.85	70-130
91 Alpha-Methylstyren	5.000	4.187	83.75	60-140
92 Decane	5.000	4.345	86.90	60-140
93 tert-butylbenzene	5.000	4.015	80.31	70-130
94 1,2,4-Trimethylben	5.000	4.039	80.77	70-130
95 sec-butylbenzene	5.000	4.023	80.46	70-130
96 1,3-Dichlorobenzen	5.000	3.929	78.58	70-130
97 Benzyl Chloride	5.000	3.643	72.86	70-130
98 1,4-Dichlorobenzen	5.000	3.850	77.00	70-130
99 p-Cymene	5.000	3.929	78.58	70-130
100 ~ 1,2,3- Trimethyl	5.000	4.171	83.42	70-130
101 ~ n-butylcyclohexa	5.000	4.770	95.40	70-130
102 ~ Indane	5.000	4.137	82.75	70-130
103 1,2-Dichlorobenzen	5.000	3.824	76.47	70-130
104 n-butylbenzene	5.000	3.614	72.27	60-140
105 ~ Indene	5.000	4.159	83.18	70-130
106 Undecane	5.000	2.898	57.97*	60-140
107 ~ 1,2-dimethyl-4-e	5.000	3.757	75.14	70-130
108 ~ 1,2,4,5-tetramet	5.000	3.820	76.40	70-130
109 ~ 1,2,3,5-tetramet	5.000	4.004	80.07	70-130
110 ~ 1,2,3,4-tetramet	5.000	3.786	75.72	70-130
111 Dodecane	5.000	4.039	80.78	60-140
112 1,2,4-Trichloroben	5.000	3.582	71.64	60-140
113 Napthalene	5.000	3.607	72.15	40-140
114 ~ benzo(b) thiophe	5.000	3.743	74.86	70-130
115 Hexachlorobutadien	5.000	4.051	81.02	60-140
116 1,2,3-trichloroben	5.000	4.089	81.78	40-140
117 ~ 2-Methylnaphthal	31.25	20.50	65.59*	70-130
118 ~ 1-Methylnaphthal	31.25	18.71	59.88*	70-130

SURROGATE COMPOUND	CONC ADDED ppb (v/v)	CONC RECOVERED ppb (v/v)	% RECOVERED	LIMITS
$ 4 4-Bromofluorobenze	10.00	10.05	100.52	70-130


Data File: /var/chem/gcms/mj.i/J060512.b/jlcsf05.d
Date : 05-JUN-2012 08:54
Client ID: CCV/LCS
Sample Info: MTX9G1AC,,2,6,,CCV/LCS
Purge Volume: 200.0
Column phase: Rtx-5
Instrument: mj.i
Operator: 7126
Column diameter: 0.32
Y (x10^6)
Min
-Bromochloromethane+
-1,4-Difluorobenzene
-Chlorobenzene-d5
4-Bromofluorobenzene+
/var/chem/gcms/mj.i/J060512.b/jlcsf05.d

Miscellaneous Data

TestAmerica Knoxville GC/MS Air Data Review / Narrative Checklist LOT/Project # H2E31043 1

Method: TO-14 and TO-15 - KNOX-MS-0001, Rev 12 & KNOX-MS-0023, Rev 0

Instrument:	MJ			
Scanned File:	J052412F	J060512		

Review Items A. Tune / Continuing Calibration	N/A	Yes	No	Why is data reportable?	2nd
1. Were all samples injected within 24 hr of BFB?		✓			✓
2. Has a Continuing Calibration Checklist & run log been completed for each analytical batch **and scanned properly**?		✓			✓
3. Was the correct ICAL used for quantitation?		✓			✓
B. CLIENT SAMPLE AND QC SAMPLE Results	**N/A**	**Yes**	**No**	**Why is data reportable?**	
1. Were all special project requirements met?		✓			✓
2. Were samples received in cans?		✓		□ [Tedlar1] analyzed w/n 72 hours, □ [Tedlar2] X-fer within 72 hours.	✓
3. Can pressure/vac on receipt acceptable?		✓		□ see narrative	✓
4. Were dilution factors/can prep information verified?		✓			✓
5. Have the can number & lab ID been verified between the analysis log & sample prep log?		✓			✓
6. Sample analyses done within analytical holding time (HT)? *If no, list samples:* _____		✓		□ [ht2] Client requested analysis after HT expired. □ Other: _____	✓
7. Default sample volume verified?		✓			✓
8. Are surrogates and internal standards within QC limits? (60-140% R for surr.; 60-140%R from CCAL for IS) *If no, list samples/reason (e.g.,* **sur1***):* Sample / Reason / Sample / Reason: _____ / _____ / _____ / _____		✓		□ [sur7] Obvious matrix effect □ **[sur12] high recovery, no hits.** □ [sur14] entire sample consumed □ **[is1] Per client, reanalysis was not performed *** □ [is2] Reanalysis confirmed a matrix effect.	✓
9. Were all positive results and false negatives on quan report verified to be correct in LIMS?		✓			✓
10. For dilutions, is highest concentration hit ≥ 20% cal range and not above calibration range? *List samples and reason (e.g.,* elev1*):* Sample / Reason / Sample / Reason: _____ / _____ / _____ / _____		✓		□ [elev1] Elevated RL for due to sample matrix interferences. □ [elev3] Elevated RLs for all analytes due to difficult sample matrix. □ [elev4] Elevated RLs based on screening □ [elev5] Elevated RLs for all analytes due to presence of non-target compounds. □ [elev7] Elevated RLs due to sample volume	✓
11. If manual integrations were performed, are they clearly identified, initialed, dated and reason given & alternate hits verified.	✓			Reasons: 1)Corrected split peak; 2)Unresolved peak; 3)tailing; 4)RT shift; 5)wrong peak selected; 6)other	MJ
C. Preparation QC					
1. System blank run every 24 hours prior to samples?		✓			✓
2. System blank surrogate recoveries within QC limits (60-140% R) ?		✓		□ **[mb1] All sample surrogates OK and there is no analyte >RL in samples associated with blank.***	✓
3. Are all analytes present in the system blank < RL? (1/2 RL for DoD). *If no, list blank ID:* _____		✓		□ **[mb3] No analyte > RL in associated samples.*** □ **[mb4] Sample results > 10x higher than blank.**	✓
4. DUP done per 20 samples and are all RPDs within limits? (for target analytes >5x RL, <25% RPD; no criteria for methanol and n-butanol) *If no, list DUP ID:* _____		✓			✓
5. Did the LCS meet criteria (70-130% with a limited # allowed 60-140% (see table) provisional analyte limit 60-140% with a limited # allowed 50-150%, and no two consecutive MEs). Note: Ohio does not allow for ME.		✓		□ [lcs6] LCS analyte(s) flagged as being outside control limits but within marginal limits □ [lcs5] LCS outside marginal exceedences high, but analytes were not detected LCS ID: _____	✓
D. Other					
1. Final report acceptable? (Results correct, RLs calculated correctly, units correct, surrogate %R correct, appropriate flags used, dilution factor correct, analysis dates correct.)		✓			✓
2. Are all nonconformances documented appropriately and copy included with deliverable?		✓		NCM# 11059 expired ethanol	✓
4. Was a narrative prepared and all deviations noted?		✓		□ [1pt6]; □ [1pt11]; □ [1ptsur] □ [Extras] ethanol	✓
5. TO14A Autotext included in narrative (for TO14A samples only).	✓			□ [TO14]	MJ
6. All target analytes on c.cal >30%D but passes LCS criteria noted in the narrative?		✓		□ [ccal] The ccal exhibited a %D ICAL >30% but passes LCS…list analytes on narrative. 2But · 9 14dioX	✓

Number of target analytes in LCS	# marginal exceedances of LCS control limits allowed
>90	5
71 - 90	4
51 - 70	3
31 - 50	2
11 - 30	1
< 11	0

Analyst:	Date: 6/6/12	2nd Level Reviewer:	Date: 060712

□ see following page for comments.

*Such action must be taken in consultation with client.

RQC058

TestAmerica Laboratories, Inc.
EXTRACTION BENCH WORKSHEET

Run Date: 6/06/12
Time: 9:49:42

LEV 1	LEV 2		LEV 1	LEV 2	
_	_	Blank	_	_	Weights/Volumes
_	_	Check	_	_	Spike & Surrogate Worksheet
_	_	MS/MSD	_	_	Vial contains correct volume
_	_		_	_	Labels, greenbars, worksheets
			_	_	computer batch: correct & all match
			_	_	Anomalies to Extraction Method

_ Expanded Deliverable
_ COC Completed
_ Bench Sheet Copied
_ Package Submitted to AnalyticalGroup
_ Bench Sheet Copied per COC

Extractionist: _____
_____
Concentrationist: _____
_____

****
* *
* **QC BATCH: 2156111** *
* *
****

PREP DATE: 6/05/12
COMP DATE: 6/06/12

Reviewer/Date: _____ / 0/00/00

Volatile Organics by GC/MS TO-15 low-level
NO SAMPLE PREPARATION PERFORMED / DIRECT INJECTION

EXTR EXPR	ANL DUE	LOT#,MSRUN#/ WORK ORDER	TEST FLGS	EXT	MTH	MATRIX	INIT/FIN WT/VOL	INIT	PH"S ADJ1	ADJ2	SOLVENTS EXTRACTION	VOL	EXCHANGE	VOL	SPIKE STANDARD/ SURROGATE ID
0/00/00	6/08/12	H2E310431-001 **MTWP0-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/08/12	H2E310431-002 **MTWP4-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/08/12	H2E310431-003 **MTWP7-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	6/08/12	H2E310431-004 **MTWP8-1-AA**	DR	88	7M	AIR	mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H2F040000-111 **MTX9G-1-AA**B		88	7M	AIR	**500mL** 500.00mL	NA	NA	NA		.0		.0	
COMMENTS:															
0/00/00	0/00/00	H2F040000-111 **MTX9G-1-AC**C		88	7M	AIR	**100mL** 100.00mL	NA	NA	NA		.0		.0	
COMMENTS:															

R = RUSH C = CLP
E = EPA 600 D = EXP.DEL)
M = CLIENT REQ MS/MSD

NUMBER OF WORK ORDERS IN BATCH: 6

TestAmerica Knoxville
Can Dilution Worksheet

Lot: *H2E310431* **Initial**

W/O #	Barometer inches Hg	Knoxville mm Hg	P init inches	P init Abs,mm	P final psig	P final Abs,mm	Dilution Factor	
MTW P0	28.66	728.0	- 8.3	517.1	0.7	764.2	1.48	(P0,DF*200=296)
MTW P4	28.66	728.0	- 6.9	552.7	0.9	774.5	1.40	(P4,DF*200=280)
MTW P7	28.66	728.0						
MTW P8	28.66	728.0						

1 psig = 2.036 inch Hg
Pinit(Abs,mm)=(Pinit(inch)*25.4mm/inch)+Pbar(mm)
Pfinal(Abs,mm)=(Pfinal(psig)*2.036 (inch Hg/psig)*25.4 (mm/inch))+Pbar(mm)
dilution factor = Pfinal(Abs,mm)/Pinit(Abs,mm)
mm-Hg = in-Hg * 25.4

Test America Knoxville GC/MS Volatiles

Lot ID: H2E310431 **Batch #:** 9885
Matrix: Air **Can #:** 6653
MethCod: 7M
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	0.080	ppb (v/v)
1,1,2-Trichlorotrifluoroethane	ND	0.080	ppb (v/v)
1,1,2-Trichloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2,4-Trichlorobenzene	ND	0.080	ppb (v/v)
1,2,4-Trimethylbenzene	ND	0.080	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	0.080	ppb (v/v)
1,2-Dichlorobenzene	ND	0.080	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
1,3,5-Trimethylbenzene	ND	0.080	ppb (v/v)
1,4-Dichlorobenzene	ND	0.080	ppb (v/v)
1,4-Dioxane	ND	0.20	ppb (v/v)
2-Butanone (MEK)	ND	0.32	ppb (v/v)
1,3-Dichlorobenzene	ND	0.080	ppb (v/v)
2,2,4-Trimethylpentane	ND	0.20	ppb (v/v)
Benzene	ND	0.080	ppb (v/v)
Benzyl chloride	ND	0.16	ppb (v/v)
Bromodichloromethane	ND	0.080	ppb (v/v)
Bromoform	ND	0.080	ppb (v/v)
Bromomethane	ND	0.080	ppb (v/v)
Carbon tetrachloride	ND	0.040	ppb (v/v)
Chlorobenzene	ND	0.080	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
Chloroform	ND	0.080	ppb (v/v)
Cyclohexane	ND	0.20	ppb (v/v)
Chloromethane	ND	0.20	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
cis-1,3-Dichloropropene	ND	0.080	ppb (v/v)
Dibromochloromethane	ND	0.080	ppb (v/v)
Dichlorodifluoromethane	ND	0.080	ppb (v/v)
Ethanol	ND	0.80	ppb (v/v)
Ethylbenzene	ND	0.080	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ppb (v/v)
n-Hexane	ND	0.20	ppb (v/v)
Hexachlorobutadiene	ND	0.080	ppb (v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2E310431 **Batch #:** 9885
Matrix: Air **Can #:** 6653
MethCod: 7M
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Methyl tert-butyl ether	ND	0.16	ppb (v/v)
Methylene chloride	ND	0.20	ppb (v/v)
Styrene	ND	0.080	ppb (v/v)
tert-Butyl alcohol	ND	0.32	ppb (v/v)
Tetrachloroethene	ND	0.080	ppb (v/v)
Toluene	ND	0.080	ppb (v/v)
m-Xylene & p-Xylene	ND	0.080	ppb (v/v)
o-Xylene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,3-Dichloropropene	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Trichlorofluoromethane	ND	0.080	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2E310431 **Batch #:** 9888
Matrix: Air **Can #:** 6654
MethCod: 7M
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
1,1,1-Trichloroethane	ND	0.080	ppb (v/v)
1,1,2,2-Tetrachloroethane	ND	0.080	ppb (v/v)
1,1,2-Trichlorotrifluoroethane	ND	0.080	ppb (v/v)
1,1,2-Trichloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethane	ND	0.080	ppb (v/v)
1,1-Dichloroethene	ND	0.080	ppb (v/v)
1,2,4-Trichlorobenzene	ND	0.080	ppb (v/v)
1,2,4-Trimethylbenzene	ND	0.080	ppb (v/v)
1,2-Dibromoethane (EDB)	ND	0.080	ppb (v/v)
1,2-Dichlorobenzene	ND	0.080	ppb (v/v)
1,2-Dichloroethane	ND	0.080	ppb (v/v)
1,2-Dichloropropane	ND	0.080	ppb (v/v)
1,3,5-Trimethylbenzene	ND	0.080	ppb (v/v)
1,4-Dichlorobenzene	ND	0.080	ppb (v/v)
1,4-Dioxane	ND	0.20	ppb (v/v)
2-Butanone (MEK)	ND	0.32	ppb (v/v)
1,3-Dichlorobenzene	ND	0.080	ppb (v/v)
2,2,4-Trimethylpentane	ND	0.20	ppb (v/v)
Benzene	ND	0.080	ppb (v/v)
Benzyl chloride	ND	0.16	ppb (v/v)
Bromodichloromethane	ND	0.080	ppb (v/v)
Bromoform	ND	0.080	ppb (v/v)
Bromomethane	ND	0.080	ppb (v/v)
Carbon tetrachloride	ND	0.040	ppb (v/v)
Chlorobenzene	ND	0.080	ppb (v/v)
Chloroethane	ND	0.080	ppb (v/v)
Chloroform	ND	0.080	ppb (v/v)
Cyclohexane	ND	0.20	ppb (v/v)
Chloromethane	ND	0.20	ppb (v/v)
cis-1,2-Dichloroethene	ND	0.080	ppb (v/v)
cis-1,3-Dichloropropene	ND	0.080	ppb (v/v)
Dibromochloromethane	ND	0.080	ppb (v/v)
Dichlorodifluoromethane	ND	0.080	ppb (v/v)
Ethanol	ND	0.80	ppb (v/v)
Ethylbenzene	ND	0.080	ppb (v/v)
1,2-Dichloro-1,1,2,2-tetrafluoroethane	ND	0.080	ppb (v/v)
n-Hexane	ND	0.20	ppb (v/v)
Hexachlorobutadiene	ND	0.080	ppb (v/v)
4-Methyl-2-pentanone (MIBK)	ND	0.20	ppb (v/v)

Test America Knoxville GC/MS Volatiles

Lot ID: H2E310431 **Batch #:** 9888
Matrix: Air **Can #:** 6654
MethCod: 7M
Method: EPA-2 TO-15

Parameter	Result	Reporting Limit	Units
Methyl tert-butyl ether	ND	0.16	ppb (v/v)
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Tetrachloroethene	ND	0.080	ppb (v/v)
Toluene	ND	0.080	ppb (v/v)
m-Xylene & p-Xylene	ND	0.080	ppb (v/v)
o-Xylene	ND	0.080	ppb (v/v)
trans-1,2-Dichloroethene	ND	0.080	ppb (v/v)
trans-1,3-Dichloropropene	ND	0.080	ppb (v/v)
Trichloroethene	ND	0.040	ppb (v/v)
Trichlorofluoromethane	ND	0.080	ppb (v/v)
Vinyl chloride	ND	0.080	ppb (v/v)

Sample Receipt Documentation

TAL Knoxville H2E310431
5815 Middlebrook Pike
Knoxville, TN 37921
phone 865-291-3000 fax 865-584-4315

Canister Samples Chain of Custody Record

TestAmerica assumes no liability with respect to the collection and shipment of these samples.

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Contact Information	**Project Manager:** Chad Staniszewski	**Sampled By:** E. Popken (GES)
Company: [redacted] NYSDEC-9	Phone: 716-851-7220	1 of 1 COCs
Address: 285 Michigan Ave	Site Contact: E. Popken (GES)	
City/State/Zip Buffalo, NY	TAL Contact: Jamie McKinney	
Phone: 716-851-7220		
FAX:		
Project Name: Vibratech	**Analysis Turnaround Time**	
Site/location: Buffalo, NY	Standard (Specify)	
PO # Site #915165	Rush (Specify)	

Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, "Hg (Start)	Canister Vacuum in Field, "Hg (Stop)	Flow Controller ID	Canister ID	TO-15	TO-14A	EPA 3C	EPA 25C	ASTM D-1946	Other (Please specify in notes section)	Sample Type	Indoor Air	Ambient Air	Soil Gas	Landfill Gas	Other (Please specify in notes section)
House #4 SS	5/29-5/30/12	~~1417~~ ~~1450~~	1250	28	9	K226	81495	X									X		
House #4 SS Dup	↓	~~1418~~	1250	29	8	K236	7475	X									X		
House #4 Indoor		~~1417~~	1257	29	8	K449	A281	X							X				
House #4 outdoor		1430	1305	30	8	K414	6684	X								X			

Sampled by: Eric Popken (GES).

Temperature (Fahrenheit)	Interior	Ambient
Start	~ 65°	~ 70° F
Stop	~ 65°	~ 75° F

Pressure (inches of Hg)	Interior	Ambient
Start		
Stop		

1 Box Packed @ Ambient Temp with custody seal intact ~~5/30~~ 5/31/12

1 Box Fed Ex # 4485 0261 2296

4 cans / 4 flows / 4 cc's / 1 Tbar

Special Instructions/QC Requirements & Comments:

CATEGORY B ASP Deliverable

Canisters Shipped by:	Date/Time:	Canisters Received by:	
Samples Relinquished by:	Date/Time: 5/30/12 2:05 pm	Received by:	5/30/12 14:05
Relinquished by:	Date/Time: 5/30/12 1700	Received by:	5/31/12 1015

TESTAMERICA KNOXVILLE SAMPLE RECEIPT/CONDITION UPON RECEIPT ANOMALY CHECKLIST

Lot Number: H2E310431

Review Items	Yes	No	NA	If No, what was the problem?	Comments/Actions Taken
1. Do sample container labels match COC? (IDs, Dates, Times)	✓			☐ **1a** Do not match COC ☐ **1b** Incomplete information ☐ **1c** Marking smeared ☐ **1d** Label torn ☐ **1e** No label ☐ **1f** COC not received ☐ **1g** Other:	
2. Is the cooler temperature within limits? (> freezing temp. of water to 6 °C, VOST: 10°C)	✓			☐ **2a** Temp Blank = _____ ☐ **2b** Cooler Temp = _____ ☐ **2c** Cooling initiated for recently collected samples, ice present.	
3. Were samples received with correct chemical preservative (excluding Encore)?			✓	☐ **3a** Sample preservative =	
4. Were custody seals present/intact on cooler and/or containers?	✓			☐ **4a** Not present ☐ **4b** Not intact ☐ **4c** Other:	
5. Were all of the samples listed on the COC received?	✓			☐ **5a** Samples received-not on COC ☐ **5b** Samples not received-on COC	
6. Were all of the sample containers received intact?	✓			☐ **6a** Leaking ☐ **6b** Broken	
7. Were VOA samples received without headspace?			✓	☐ **7a** Headspace (VOA only)	
8. Were samples received in appropriate containers?	✓			☐ **8a** Improper container	
9. Did you check for residual chlorine, if necessary?			✓	☐ **9a** Could not be determined due to matrix interference	
10. Were samples received within holding time?	✓			☐ **10a** Holding time expired	
11. For rad samples, was sample activity info. provided?			✓	☐ Incomplete information	
12. For 1613B water samples is pH<9?			✓	If no, was pH adjusted to pH 7 - 9 with sulfuric acid? _____	
13. Are the shipping containers intact?	✓			☐ **13a** Leaking ☐ **13b** Other:	
14. Was COC relinquished? (Signed/Dated/Timed)	✓			☐ **14a** Not relinquished	
15. Are tests/parameters listed for each sample?	✓			☐ **15a** Incomplete information	
16. Is the matrix of the samples noted?	✓			☐ **15a** Incomplete information	
17. Is the date/time of sample collection noted?	✓			☐ **15a** Incomplete information	
18. Is the client and project name/# identified?	✓			☐ **15a** Incomplete information	
19. Was the sampler identified on the COC?	✓			☐ **19a** Other	

Quote #: 90206 PM Instructions: _____

Sample Receiving Associate: _____ Date: 5/31/12

QA026R23.doc, 022812

Test America - Knoxville ---- Air Canister Dilution Log

Lot Number: *H2E310431*

Initial Can Pressure							Subsequent Dilutions											
Analyst/Date	Tedlar Bag Time	Pbarr (in)	Sample ID	Can #	Pres. upon receipt (-in or + psig)	Adj. Initial Pres. (-in or + psig)	Analyst/Date	I / S	Pbarr (in)	Initial Pres. Pi (in)	Final Pres. Pf (psig)	First InCan Final Pres. Pf (psig)	Second In-can Final Pres. Pf (psig)	Third InCan Final Pres. Pf (psig)	Serial Dilution Can #	Vol (mL)	Final Pres. Pf (psig)	Comments
DDF 5-31-12	NA	28.60	MTWP0	S1495	-8.3	+0.7												9885
↓	↓	↓	MTWP4	7475	-6.9	+0.9												9888
			MTWP7	A281	-6.9													9885
↓	↓	↓	MTWP8	6684	-7.1													9888

Data Usability Summary Report

Groundwater and Environmental Services, Inc.
Vibratech, Inc.

Laboratory Data Set
TestAmerica #H2C130401
April 2, 2012

Sample Date

March 8-9, 2012

Prepared by

Jodi Zimmerman, B.S.
Vali-Data of WNY, LLC
1514 Davis Rd.
West Falls, NY 14170

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Groundwater and Environmental Services, Inc., TestAmerica Laboratories, ID# H2C130401, submitted to Vali-Data of WNY, LLC on March 29, 2012. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocol and USEPA National Functional Guidelines. The laboratory performed the analysis using Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

ORGANICS

The following items/criteria were reviewed for this report:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain-of-Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Duplicate
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Tuning
- Canister Certification Blanks

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use but are qualified as estimated in Compound Quantitation.
Ultra-high purity humidified nitrogen was used instead of 'zero air'.
Alternate QC limits are being used for ethanol.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except method detection limits, MDL, were not provided in the original package. Results between the MDL and reporting limit were not recorded.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times for the samples were met.

INTERNAL STANDARD (IS)
The IS did meet criteria for all samples.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met.

LABORATORY CONTROL SAMPLES
No laboratory control sample was performed. The continuing calibration samples were used as check samples with acceptable %Recoveries for the target analytes.

MS/MSD
No MS/MSD were performed. Samples were labeled on the Chain of Custody as MS/MSD but correspondences between the laboratory and client indicated that the sample labeled MS became a duplicate and no MSD was performed.

DUPLICATE
All criteria were met except Methylene Chloride and 1,4-Dioxane were detected in sample; House #2 Indoor but not in the duplicate. Chloromethane and 2,2,4-Trimethylpentane were detected in House #2 SS but not in House #2 SS Duplicate. 1,1,1-Trichloroethane was detected in House #2 SS Duplicate but not in House #2 SS.

COMPOUND QUANTITATION
All criteria were met except the laboratory recorded no vacuum for sample; House #2 SS, so the results should be considered estimated.
Tert-Butanol was detected above the MDL, below the reporting limit and should be recorded as estimated in all the samples except House #3 Indoor and House #1 Indoor. 2-Butanone was detected above the MDL, below the reporting limit and should be recorded as estimated in sample House #1 Indoor.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met.

GC/MS TUNING
All criteria were met.

CANISTER CERIFICATION BLANKS

All criteria were met except no raw data was provided.

Data Usability Summary Report

Groundwater and Environmental Services, Inc.
Vibratech, Inc.

Laboratory Data Set
TestAmerica #H2E310431
June 21, 2012

Sample Date

May 30, 2012

Prepared by

Jodi Zimmerman, B.S.
Vali-Data of WNY, LLC
1514 Davis Rd.
West Falls, NY 14170

DELIVERABLES

This Data Usability Summary Report (DUSR) was prepared by evaluating the analytical data package for Groundwater and Environmental Services, Inc., TestAmerica Laboratories, ID# H2E310431, submitted to Vali-Data of WNY, LLC on June 15, 2012. This DUSR has been prepared in general compliance with NYSDEC Analytical Services Protocol and USEPA National Functional Guidelines. The laboratory performed the analysis using Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

ORGANICS

The following items/criteria were reviewed for this report:

- Data Completeness
- Narrative and Data Reporting Forms
- Chain-of-Custody and Traffic Reports
- Holding Times
- Internal Standard (IS) Area Performance
- Surrogate Spike Recoveries
- Method Blank
- Laboratory Control Samples
- MS/MSD
- Duplicate
- Compound Quantitation
- Initial Calibration
- Continuing Calibration
- GC/MS Tuning
- Canister Certification Blanks

The items listed above were technically in compliance with the method and SOP criteria with the exceptions discussed in the text below. The data have been reviewed according to the procedures outlined above and qualified accordingly.

OVERALL EVALUATION OF DATA AND POTENTIAL USABILITY ISSUES

The data are acceptable for use but are qualified as estimated in Laboratory Control Samples and Continuing Calibration.
Ultra-high purity humidified nitrogen was used instead of 'zero air'.
Alternate QC limits are being used for ethanol.

DATA COMPLETENESS
All criteria were met.

NARRATIVE AND DATA REPORTING FORMS
All criteria were met except method detection limits, MDL, were not provided in the original package. Results between the MDL and reporting limit were not recorded.

CHAIN OF CUSTODY AND TRAFFIC REPORTS
All criteria were met.

HOLDING TIMES
All holding times for the samples were met.

INTERNAL STANDARD (IS)
The IS did meet criteria for all samples.

SURROGATE SPIKE RECOVERIES
All criteria were met.

METHOD BLANK
All the criteria were met except Methylene Chloride was detected above the MDL but below the reporting limit. Results between the MDL and reporting limit were not recorded, per the contract.

LABORATORY CONTROL SAMPLES
No laboratory control sample was performed. The continuing calibration samples were used as check samples with acceptable %Recoveries for the target analytes except 2-Butanone and 1,4-Dioxane. The %Rec of these target analytes was outside QC limits, low, and should be qualified as estimated in the samples.

MS/MSD
No MS/MSD were performed.

DUPLICATE
All criteria were met.

COMPOUND QUANTITATION
All criteria were met.

INITIAL CALIBRATION
All criteria were met.

CONTINUING CALIBRATION
All criteria were met except the %Rec of 2-Butanone and 1,4-Dioxane were outside QC limits low and should be qualified as estimated in the samples.

GC/MS TUNING
All criteria were met.

CANISTER CERIFICATION BLANKS
All criteria were met except no raw data was provided.