BAILEY SUPERFUND SITE

MONTHLY PROJECT STATUS REPORT
MARCH 1997

General Description of Activities and Progress Made this Reporting Period:

Modified North Marsh and Pit B Remediation

- Parsons ES submitted a set of as-built drawings to EPA on December 5, 1996 and requested that EPA sign a Certificate of Completion for the work completed during the interim period at the Bailey Site. No response from EPA has been received.

Revised Remedial Design

- GeoSyntec responded to EPA comments on the Construction Quality Assurance Plan for the Revised Remedial Design and Remedial Action (GeoSyntec Consultants, August 1996) on January 28, 1997. EPA approved this plan on February 20, 1997. Parsons ES distributed the finalized plan to EPA on March 5, 1997.

Progress of Revised Final Remediation

- Two letters dated March 6, 1997 were sent to EPA regarding on-site disposal of samples beneath the lightweight cap and off-site disposal of construction debris to the BFI municipal landfill in Beaumont. These letters confirmed Parsons ES's conversation with Chris Villarreal during which he concurred with the plan to discard remaining samples on-site and the plan to take construction debris off-site for disposal.

- OHM's Construction Health and Safety Plan for the Revised Final Remediation was sent to EPA on March 17, 1997.

- GeoSyntec revised the North Dike construction drawings to allow for additional space under the cap for waste placement. In addition, the drawings were modified to move the boundary of the designed cap away from the site access bridge. This change entails relocating some waste from the area near this bridge and placing this waste underneath the modified cap design. This field change was discussed with Chris Villarreal during his visit to the site on February 27, 1997 and is being coordinated with EPA oversight.

- OHM completed the following activities this month:

Preparatory Activities:

* OHM provided submittals to Parsons ES. These submittals included geosynthetic products, manufacturer and installer data, survey results, schedule updates and resubmittals.

East Dike Activities:

* Completed placement of riprap on the slopes,
* Removed the temporary sumps of the consolidation water collection system,
* Completed placement of fill and performing final grade operations,
* Geosynthetic materials have been received at the site.
* Conducted conformance tests on geosynthetics.

North Dike Activities:

* Began placement of general fill in the surficial waste area and placing the 1-foot of fill on top of the waste to reach subgrade elevations,
* Completed installation of the consolidation water collection system,
* Completed rough grading and conditioning of soft areas,
* Completed excavation of the surficial waste area,
* Excavation of the bulk waste area is 50% complete.

Wastewater Management and Treatment

- Parsons ES provided EPA with notification on March 5, 1997 that a sample from the East Dike holding tank which contains consolidation water would be collected. This sample was analyzed for TOC to see if the wastewater meets the discharge criteria. Laboratory results from this sample indicate that the TOC level of the wastewater is 260 mg/L (laboratory data provided in Attachment A). The discharge criteria for TOC is 15 mg/L. Due to the high level of TOC, Parsons ES coordinated with EPA oversight and determined to take this wastewater off-site for disposal after characterization samples were collected and the wastewater confirmed non-hazardous.

- Parsons ES provided Chris Villarreal with notification on March 25, 1997 that they would collect samples from the holding tank on site to characterize the water for off-site disposal. This wastewater will be sampled on April 2, 1997.

Air Monitoring

- Results from documentation samples collected on February 15, February 22, and March 11, 1997 are summarized in Table 1. Analytical data for these samples are in Attachment B of this report.

- Documentation samples were collected on March 11 and 27, 1997. Sample collection varied from the frequency specified in the Revised Air Monitoring Plan, (one per six days) either because no intrusive work was being performed or due to inclement weather. Data from the March 27th sampling event has not been received yet.

Activities to be Commenced or Completed During Next Reporting Period:

- EPA will be provided with laboratory QA/QC plans as an appendix to the Quality Assurance Project Plan for the Revised Remedial Design and Remedial Action (GeoSyntec Consultants, August 1996). GeoSyntec responded to EPA comments on this plan on January 2, 1997.

- OHM plans to complete the following site activities next month:
  - * Complete the bulk waste excavation on the North Dike,
  - * Begin riprap placement on the North Dike slopes,
  - * Complete filling and grading operations on the North Dike to the subgrade elevation,
  - * Install geosynthetic materials and protective soil layer on the East Dike,
  - * Begin installation of geosynthetic materials on the North Dike.

Problems Encountered in Commencing or Completing Remedial Action:

- None at this time.

Schedule:

Pursuant to Chris Villarreal's agreement, as confirmed in a telephone conversation on February 6, 1997, the site activities listed under "Activities to be Commenced or Completed During Next Reporting Period" are provided in place of a schedule at this time. Site work is proceeding according to the overall schedule. However, some delays have occurred due to inclement weather.

TABLE 1
DOCUMENTATION AIR SAMPLING FOR THE FEBRUARY 1997 MONTHLY REPORT
Bailey Site, Orange County, Texas

Air Samples taken 2/15/97, 2/22/97, and 3/11/97

Compound	Action Level[1] (ppm)	Action Level[1] (ppb)	Analysis Results 021597D1 (ppb) *Downwind*	Analysis Results 021597D1 DUP-(ppb) *Laboratory Duplicate Downwind*	Analysis Results 021597U1 (ppb) *Upwind*	Analysis Results 022297D1 (ppb) *Downwind*	Analysis Results 022297U1 (ppb) *Upwind*	Analysis Results 031197D1 (ppb) *Downwind*	Analysis Results 031197U1 (ppb) *Upwind*	Analysis Results 031197U2 (ppb) *Downwind*
Acetone	375	375,000	8.1	8.0	13.0	9.8	8.5	5.0	14	4.1
Benzene	0.5	500	0.57	0.57	0.54	0.26	0.46	5.0	1.0	1.0
Butanone, 2- (MEK)	100	100,000	2.0	1.8	4.6	1.6	1.7	4.2	5.1	1.9
Carbon Disulfide	2	2,000	<0.79	<0.79	<0.90	<0.94	1.4	<0.96	3.1	<0.96
Chlorobenzene	5	5,000	<0.16	<0.16	<0.18	<0.19	<0.21	<0.19	<0.19	<0.19
Dichloroethane, 1,2-	5	5,000	<0.16	<0.16	<0.18	<0.19	<0.21	<0.19	<0.19	<0.19
Dichloroethene, cis-1,2-	100	100,000	<0.16	<0.16	<0.18	<0.19	<0.21	<0.19	<0.19	<0.19
Dichloroethene, trans-1,2-	100	100,000	<0.79	<0.79	<0.90	<0.94	<1.0	<0.96	<0.94	<0.96
Dichloropropane, 1,2-	37.5	37,500	<0.16	<0.16	<0.18	<0.19	<0.21	<0.19	<0.19	<0.19
Ethyl Benzene	50	50,000	<0.16	<0.16	<0.18	<0.19	<0.21	0.22	<0.19	<0.19
Methylene Chloride	25	25,000	<0.79	<0.79	<0.90	<0.94	<1.0	<0.96	<0.94	<0.96
Styrene	25	25,000	<0.16	<0.16	<0.18	<0.19	<0.21	0.20	<0.19	<0.19
Tetrachloroethene	12.5	12,500	<0.16	<0.16	<0.18	<0.19	<0.21	<0.19	<0.19	<0.19
Toluene	25	25,000	0.51	0.51	0.60	<0.19	0.72	1.4	0.67	0.57
Trichloroethane, 1,1,1-	5	5,000	<0.16	<0.16	<0.18	0.22	<0.21	<0.19	<0.19	<0.19
Trichloroethene	25	25,000	<0.16	<0.16	<0.18	<0.19	<0.21	<0.19	<0.19	<0.19
Xylene, m,p-	50	50,000	<0.16	<0.16	0.19	<0.19	0.46	0.88	0.27	0.25
Xylene, o-	50	50,000	<0.16	<0.16	<0.18	<0.19	0.23	0.55	<0.19	<0.19

[1] Action Levels for the site are specified in Table 2-2 of the Revised Air Monitoring Plan for Final Remediation (Parsons ES, January, 1997)

ATTACHMENT A

WATER TREATMENT ANALYTICAL DATA

ATTACHMENT B - PART 1

DOCUMENTATION AIR MONITORING ANALYTICAL DATA

BAILEY SUPERFUND SITE
MONTHLY REPORT FOR MARCH 1997

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

03/14/97

Ms. Jackie Travers
Parson Engineering Science
9906 Gulf Freeway, Suite 100
Houston, TX 77034

The following report contains analytical results for samples received at Southern Petroleum Laboratories (SPL) on 03/11/97. The samples were assigned to Certificate of Analysis No. H9-9703456 and analyzed for all parameters as listed on the chain of custody.

There were no analytical problems encountered with this group of samples and all quality control data was within acceptance limits.

If you have any questions or comments pertaining to this data report, please do not hesitate to contact me. Please reference the above Certificate of Analysis No. during any inquiries.

Again, SPL is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Southern Petroleum Laboratories

Ed Fry
Project Manager

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Southern Petroleum Laboratories, Inc.

Certificate of Analysis Number: 97-03-456

Approved for Release by:

Brett VanDelinder, Project Manager — Date: 3/14/97

Greg Grandits
Laboratory Director

Idelis Williams
Quality Assurance Officer

The attached analytical data package may not be reproduced except in full without the express written approval of this laboratory.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9703456-01

Parson Engineering Science
9906 Gulf Freeway, Suite 100
Houston, TX 77034
ATTN: Jackie Travers

DATE: 03/13/97

PROJECT: Bailey Superfund Site
SITE: Bridge City, TX
SAMPLED BY: Parson Engineering Science
SAMPLE ID: WHT031097A1

PROJECT NO: 727931
MATRIX: WATER
DATE SAMPLED: 03/10/97 15:30:00
DATE RECEIVED: 03/11/97

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Total Organic Carbon Method 415.1 * Analyzed by: WLR Date: 03/11/97	260	10	mg/L

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

Certificate of Analysis No. H9-9703456-02

Parson Engineering Science
9906 Gulf Freeway, Suite 100
Houston, TX 77034
ATTN: Jackie Travers

DATE: 03/13/97

PROJECT: Bailey Superfund Site
SITE: Bridge City, TX
SAMPLED BY: Parson Engineering Science
SAMPLE ID: WHT031097B2

PROJECT NO: 727931
MATRIX: WATER
DATE SAMPLED: 03/10/97 15:30:00
DATE RECEIVED: 03/11/97

ANALYTICAL DATA

PARAMETER	RESULTS	DETECTION LIMIT	UNITS
Total Organic Carbon Method 415.1 * Analyzed by: WLR Date: 03/11/97	260	10	mg/L

Notes: *Ref: Methods for Chemical Analysis of Water and Wastes, 1983, EPA
**Ref: Standard Methods for Examination of Water & Wastewater, 18th ed.
***Ref: Test Methods for Evaluating Solid Waste, EPA SW846, 3rd Ed.

QUALITY ASSURANCE: These analyses are performed in accordance with EPA guidelines for quality assurance.

QUALITY CONTROL

DOCUMENTATION

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL QUALITY CONTROL REPORT **

Matrix: Aqueous

Reported on: 03/12/97
Analyzed on: 03/11/97
Analyst: WLR

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Total Organic Carbon
Method 415.1 *

SPL Sample ID Number	Method Blank mg/L	Sample Result mg/L	Spike Added mg/L	Matrix Spike Result mg/L	Matrix Spike Recovery %	Matrix Spike Duplicate Result mg/L	Matrix Spike Duplicate Recovery %	RPD (%)	QC LIMITS (Advisory) RPD Max	QC LIMITS (Advisory) % REC
9703290-11B	ND	30.94	40.00	70.50	98.9	70.78	99.6	0.7	5	94.7 -105.6

-9703382

Samples in batch:

9703290-03B	9703290-11B	9703290-17B	9703353-06B
9703353-14B	9703353-16B	9703353-17B	9703353-18B
9703456-01A	9703456-02A		

COMMENTS:

HOUSTON LABORATORY
8880 INTERCHANGE DRIVE
HOUSTON, TEXAS 77054
PHONE (713) 660-0901

** SPL QUALITY CONTROL REPORT **

Matrix: Aqueous

Reported on: 03/12/97
Analyzed on: 03/11/97
Analyst: WLR

This sample was randomly selected for use in the SPL quality control program. Samples chosen are fortified with a known concentration in duplicate. The results are as follows:

Total Organic Carbon
Method 415.1 *

SPL Sample ID Number	Blank Value mg/L	LCS Concentration mg/L	Measured Concentration mg/L	% Recovery	QC Limits Recovery
LCS	ND	40.90	40.66	99.4	95 - 105

-9703383

Samples in batch:

9703290-03B	9703290-11B	9703290-17B	9703353-06B
9703353-14B	9703353-16B	9703353-17B	9703353-18B
9703456-01A	9703456-02A		

COMMENTS:
LCS = SPL. I.D. #9553582-18

CHAIN OF CUSTODY

AND

SAMPLE RECEIPT CHECKLIST

SPL, Inc.

Analysis Request & Chain of Custody Record

SPL Workorder No: 9703456

H- 13459

page 1 of 1

Client Name: PARSONS ENGINEERING SCIENCE

Address/Phone: (713) 943-5432

Client Contact: JACKIE TRAVERS

Project Name: BAILEY SUPERFUND SITE

Project Number: 727931

Project Location: BRIDGE CITY, TX.

Invoice To:

SAMPLE ID	DATE	TIME	comp	grab	matrix (W=water S=soil SL=sludge O=other:)	bottle (P=plastic A=amber glass G=glass V=vial)	size (1=1 liter 4=4oz 40=vial 8=8oz 16=16oz)	pres. (1=HCl 2=HNO3 3=H2SO4 O=other:)	Number of Containers	Requested Analysis: TOC USEPA 415.1	Requested Analysis: PH/MG 3/11/97
WHT031097A1	3/10/97	15:30		✓	W		32oz	3	1	X	
WHT031097B2	3/10/97	15:30		✓	W		32oz	3	1	X	

Client/Consultant Remarks: NO MS, MSD ANALYSIS SENT VIA FED EX.

Laboratory remarks: ~~FEDEX# 830961615~~ 3/11/97

Intact? ☒ Y ☐ N

Temp: 5°C

Requested TAT

24hr ☐ 72hr ☑

48hr ☐ Standard ☐

Other ☐ _____

Special Reporting Requirements: Fax Results ☐ Raw Data ☐ Standard QC ☐ Level 3 QC ☑ Level 4 QC ☐ PER CONTRACT

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: Mark Murphy	3/10/97	16:00	2. Received by: S. West 3/11/97 1000
3. Relinquished by:	date	time	4. Received by:
5. Relinquished by:	date	time	6. Received by Laboratory:

☑ 8880 Interchange Drive, Houston, TX 77054 (713) 660-0901

☐ 459 Hughes Drive, Traverse City, MI 49684 (616) 947-5777

☐ 500 Ambassador Caffery Parkway, Scott, LA 70583 (318) 237-4775

☐ 1511 E. Orangethorpe Avenue, Fullerton, CA 92631 (714) 447-6868

SPL Houston Environmental Laboratory

Sample Login Checklist

Date:	Time:
3/11/97	1000

SPL Sample ID:
9703456

			Yes	No
1	Chain-of-Custody (COC) form is present.		✓	
2	COC is properly completed.		✓	
3	If no, Non-Conformance Worksheet has been completed.			
4	Custody seals are present on the shipping container.		✓	
5	If yes, custody seals are intact.		✓	
6	All samples are tagged or labeled.		✓	
7	If no, Non-Conformance Worksheet has been completed.			
8	Sample containers arrived intact		✓	
9	Temperature of samples upon arrival:		5° C	
10	Method of sample delivery to SPL:	SPL Delivery		
		Client Delivery		
		FedEx Delivery (airbill #)	0357459200	
		Other:		
11	Method of sample disposal:	SPL Disposal	✓	
		HOLD		
		Return to Client		

Name:	Date:
S. West	3/11/97

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 9702139

Work Order Summary

CLIENT:	Ms. Barbara Dye Parsons Engineering Science, Inc. 9906 Gulf Freeway, Suite 100 Houston, TX 77034	**BILL TO:**	Ms. Mary Miller Parsons Engineering Science, Inc. 9906 Gulf Freeway, Suite 100 Houston, TX 77034
PHONE:	713-943-5432	**INVOICE #**	13467
FAX:	713-943-5427	**P.O. #**	727931-3004-00
DATE RECEIVED:	2/18/97	**PROJECT #**	727931 Bailey
DATE COMPLETED:	3/4/97		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	021597U1	TO-14	7.5 "Hg
02A	021597D1	TO-14	4.5 "Hg
02AA	021597D1 Duplicate	TO-14	4.5 "Hg
03A	Method Spike	TO-14	NA
04A	Lab Blank	TO-14	NA

CERTIFIED BY: Linda D. Fuentes
Laboratory Director

DATE: 3/4/97

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B • FOLSOM, CA 95630
(916) 985-1000 • FAX (916) 985-1020

AIR TOXICS LTD.

SAMPLE NAME: 021597U1

ID#: 9702139-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022509	Date of Collection:	2/15/97
Dil. Factor:	1.79	Date of Analysis:	2/25/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.90	Not Detected
cis-1,2-Dichloroethene	0.18	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected
Benzene	0.18	0.54
1,2-Dichloroethane	0.18	Not Detected
Trichloroethene	0.18	Not Detected
1,2-Dichloropropane	0.18	Not Detected
Toluene	0.18	0.60
Tetrachloroethene	0.18	Not Detected
Chlorobenzene	0.18	Not Detected
Ethyl Benzene	0.18	Not Detected
m,p-Xylene	0.18	0.19
o-Xylene	0.18	Not Detected
Styrene	0.18	Not Detected
Acetone	0.90	13
Carbon Disulfide	0.90	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	4.6

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	106	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	110	70-130

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SAMPLE NAME: 021597D1

ID#: 9702139-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022510	Date of Collection: 2/15/97
Dil. Factor:	1.58	Date of Analysis: 2/25/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.79	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected
Benzene	0.16	0.57
1,2-Dichloroethane	0.16	Not Detected
Trichloroethene	0.16	Not Detected
1,2-Dichloropropane	0.16	Not Detected
Toluene	0.16	0.51
Tetrachloroethene	0.16	Not Detected
Chlorobenzene	0.16	Not Detected
Ethyl Benzene	0.16	Not Detected
m,p-Xylene	0.16	Not Detected
o-Xylene	0.16	Not Detected
Styrene	0.16	Not Detected
Acetone	0.79	8.1
Carbon Disulfide	0.79	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.79	2.0

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Octafluorotoluene	108	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	110	70-130

AIR TOXICS LTD.

SAMPLE NAME: 021597D1 Duplicate

ID#: 9702139-02AA

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022511	Date of Collection: 2/15/97
Dil. Factor:	1.58	Date of Analysis: 2/25/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.79	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected
Benzene	0.16	0.57
1,2-Dichloroethane	0.16	Not Detected
Trichloroethene	0.16	Not Detected
1,2-Dichloropropane	0.16	Not Detected
Toluene	0.16	0.51
Tetrachloroethene	0.16	Not Detected
Chlorobenzene	0.16	Not Detected
Ethyl Benzene	0.16	Not Detected
m,p-Xylene	0.16	Not Detected
o-Xylene	0.16	Not Detected
Styrene	0.16	Not Detected
Acetone	0.79	8.0
Carbon Disulfide	0.79	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.79	1.8

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	108	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	112	70-130

AIR TOXICS LTD.

SAMPLE NAME: Method Spike

ID#: 9702139-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022504	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/25/97

Compound	Det. Limit (ppbv)	% Recovery
Methylene Chloride	0.50	100
cis-1,2-Dichloroethene	0.10	110
1,1,1-Trichloroethane	0.10	111
Benzene	0.10	109
1,2-Dichloroethane	0.10	110
Trichloroethene	0.10	111
1,2-Dichloropropane	0.10	118
Toluene	0.10	116
Tetrachloroethene	0.10	103
Chlorobenzene	0.10	110
Ethyl Benzene	0.10	107
m,p-Xylene	0.10	106
o-Xylene	0.10	111
Styrene	0.10	102
Acetone	0.50	124
Carbon Disulfide	0.50	96
trans-1,2-Dichloroethene	0.50	99
2-Butanone (Methyl Ethyl Ketone)	0.50	116

Container Type: NA

Surrogates	%Recovery	Method Limits
Octafluorotoluene	100	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	102	70-130

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SAMPLE NAME: Lab Blank

ID#: 9702139-04A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022506	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/25/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.50	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected
Benzene	0.10	Not Detected
1,2-Dichloroethane	0.10	Not Detected
Trichloroethene	0.10	Not Detected
1,2-Dichloropropane	0.10	Not Detected
Toluene	0.10	Not Detected
Tetrachloroethene	0.10	Not Detected
Chlorobenzene	0.10	Not Detected
Ethyl Benzene	0.10	Not Detected
m,p-Xylene	0.10	Not Detected
o-Xylene	0.10	Not Detected
Styrene	0.10	Not Detected
Acetone	0.50	Not Detected
Carbon Disulfide	0.50	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	102	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

CHAIN-OF-CUSTODY RECORD

№ 009949

Page 1 of 1

Contact Person BARBARA DYE
Company PARSONS ES
Address 9906 GULF FREEWAY City HOUSTON State TX Zip 77034
Phone (713) 943-5432 FAX (713) 943-5427
Collected By: Signature Mark Murphy

Project info:
P.O. # 727931-3004.00
Project # 727931
Project Name BAILEY

Turn Around Time:
☑ Normal
☐ Rush _____ Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	021597 U1	2/15/97 8HR 11MIN	TO-14 SEE ATTACHED LIST	-30	-11	7.5" Hg
02A/AA	021597 D1	2/15/97 8HR 6MIN	" " " "	-30	-8	4.5" Hg

2/18

Relinquished By: (Signature) Date/Time Print Name
Mark Murphy 2/16/97 0800
Relinquished By: (Signature) Date/Time Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time Received By (Signature) Date/Time
Scott Amerson ATL 2/18/97 940

Notes:
RETURNING:
1 - PRESSURE GAUGE
2 - FLOW CONTROLLERS
2 - FILTERS

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Date/Time	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FED EX	0149184 814	[illegible]	2/18/97 940	AMBIENT	GOOD	(Yes) No None N/A	9702139

Form 1293 rev 06

LEVEL-IV VALIDATABLE

Volatile Organics Analysis
EPA Method TO-14

COMPLETE SDG FILE (CSF) DOCUMENT INVENTORY SHEET

Lab Name: Air Toxics Ltd.
City/State: Folsom, CA
Lab Code: _____

Contract: _____
SDG: _____
Work Order: 9702139

	Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Regio
1. Inventory Sheet (ATL-2) (Do Not Number)			√	
2. Laboratory Narrative (Do Not Number)			√	
3. QC Summary				
a. Surrogate Recovery (FORM II-ATL)	–	–	–	
b. Sample Results/Sample Results Duplicate (FORM III-DUP-ATL)	–	–	–	
c. Method Blank Summary (FORM IV-ATL)	–	–	–	
d. GC/MS Instrument Performance Check (BFB Tune) (FORM V-ATL) + Run Lo	1	5	√	
e. Internal Standard Area and Retention Time Summary (FORM VIII-ATL)	–	–	–	
4. Sample Results + Raw Data	6	114	√	
5. Standards & Raw QC Data				
a. Initial Calibration Data (Summary Sheet + Raw Data)	115	164	√	
b. Continuing Calibration Data (Summary Sheet + Raw Data)	165	245	√	
c. BFB Tune (Raw Data)	246	255	√	
d. Blank Data (FORM I-ATL + Raw Data)	256	277	√	
6. Canister Certification (FORM ATL-3 + Raw Data)	–	–	–	
7. Shipping/Receiving Documents:				
a. Airbill (No. of Shipments ____)	–	–	–	
b. Chain-of-Custody Records	278	278	√	
c. Sample Tags	–	–	–	
d. Sample Log-In Sheet	279	279	√	
Misc. Shipping/Receiving Records (list individual records)				
_____	–	–	–	
_____	–	–	–	
8. Internal Lab Sample Transfer Records & Tracking Sheets	–	–	–	
9. Internal Original Sample Preparation & Analysis Records (describe or list):				
a Preparation Records _____	–	–	–	
b. Analysis Records Run Logs	–	–	–	
10. Other Records (decribe or list)				
a. Telephone Communication Log	–	–	–	
b. Dilution Factors	280	280	√	
_____	–	–	–	

Comments:

_____

_____

Completed by:

Julie R Bellendir — Julie R. Bellendir / Document Control — 3/4/97
(Signature) (Print Name & Title) (Date)

FORM ATL-2

LABORATORY NARRATIVE
Analysis of VOLATILE ORGANICS by EPA Method TO-14
Work Order #9702139

Two 6L Summa™ Canister samples were received on February 18, 1997. The laboratory performed analysis via EPA Method TO-14 using a capillary direct quadrupole GC/MS in the full scan mode. The method involves cryofocusing up to 0.5 L of air at liquid argon temperatures. The cryofocused aliquot is then flash vaporized to 225°C and swept through a hydrophobic drier to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. Please see the data sheets for the analytical detection limit. Library searching of the top ten tentatively identified compounds was not performed per the client's request.

The concentrations present in the samples were calculated using the technique of internal standards. Three internal standards (Bromochloromethane, 1,4-Difluorobenzene and Chlorobenzene-d5) were spiked at 5.0 ppbv into every standard, blank and sample. Three surrogates (Octafluorotoluene, Toluene-d8 and 4-Bromofluorobenzene) were also spiked at 5.0 ppbv.

The analytical dilution factor reported on the data sheet is derived from a combination of canister receipt vacuum and laboratory dilution. All canisters are pressurized to 5 psi (unless they are received at a pressure greater than 5psi) prior to analysis. This results in an effective dilution factor governed by the equation:

$$DF_1 = \frac{14.7 \text{ psi} + 5 \text{ psi}}{14.7 \text{ psi} - ((\text{Receipt Pressure})(14.7)/30)}$$

A table of canister pressure dilution factors appears at the end of this deliverable. Should additional dilution be required to ensure that all compounds are within the analytical curve, the additional dilution factor (DF_2) would be multiplied by the pressurization dilution factor. This would result in the dilution factor shown on the report.

$$DF_1 \times DF_2 = DF \text{ Total}$$

Laboratory duplicates, when performed, are noted by the suffix - Duplicate.

EPA Method TO-14 does not specify Initial Calibration and Continuing Calibration Check (CCC) criteria. The laboratory established criteria is that all compounds must be less than or equal to 30% RSD in the Initial Calibration Curve prior to analysis of samples. The average relative response factors from the initial calibration curve are used to calculate results. The Laboratory Standard Operating Procedure requires that 90% of the standard TO-14 target analytes must be within 70% to 130% Recovery in the CCC. For the non-standard TO-14 compounds (Acetone, Carbon Disulfide, trans-1,2-Dichloroethene and 2-Butanone), 80% must be witin 60% to 140% Recovery in the CCC. A new analytical curve is analyzed if these criteria are not met.

The laboratory used automated data transfer to create the forms found in the package. The first set of quantitation pages for each sample are the reduced data. Next, an audit history has been included to show all changes made to the unreduced data and the analyst performing the change. Finally, the unreduced quantitation pages are included.

GC/MS Calculations:

$$RRF = \frac{A_x}{A_{is}} \times \frac{C_{is}}{C_x}$$

Where: RRF - Relative Response Factor
A_x - Area of Characteristic Ion of Compound
A_{is} - Area of Characteristic Ion of Internal Standard
C_{is} - Concentration of Internal Standard
C_x - Concentration of Compound

Calculations continued on next page.

$$C_{sample} = \frac{A_{sample}}{A_{is}} \times \frac{C_{is}}{RRF} \times DF$$

Where: C_{sample} - Conc. of Compound in Sample
A_{sample} - Area of Cmpd's Ion in Sample
A_{is} - Area of Ion of Internal Std.
C_{is} - Conc. of Internal Standard
RRF - Relative Response Factor (the average RRF from the Initial Calibration Curve)
DF - Dilution Factor

All internal standard areas and retention times were within the allowed windows. All surrogate recoveries were within the allowed windows.

There were no out of the ordinary circumstances to report.

Five qualifiers may have been used on the data analysis sheets and indicate as follows:

E - Exceeds instrument calibration range, but within linear range
S - Saturated Peak
J - Reported below the detection limit, but supported by mass spectra.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
Q - Exceeds Quality Control Limits of 70% to 130%

Table 1

Client Sample No.	Lab Sample ID	Date Collected	Date Received	Date Analyzed	Receipt Vacuum ("Hg/psi)	Final Pressure (psi)
021597U1	9702139-01A	2/15/97	2/18/97	2/25/97	7.5 "Hg	5 psi
021597D1	9702139-02A	2/15/97	2/18/97	2/25/97	4.5 "Hg	5 psi
021597D1 Duplicate	9702139-02AA	2/15/97	2/18/97	2/25/97	4.5 "Hg	5 psi

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION-
BROMOFLUOROBENZENE (BFB)

~~0000~~ 0001

Lab Name: AIR TOXICS LIMITED — SDG No: _____

Lab Code: _____ — Contract: _____

Lab File ID: J01C903 — BFB Injection Date: 1-9-97

Instrument ID: MSJ — BFB Injection Time: 09:07

Matrix: Ambient Air

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.19
75	30.0 - 60.0% of mass 95	45.57
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.57
173	< 2.0% of mass 174	(0.00
174	> 50.0% of mass 95	71.18
175	5.0 - 9.0% of mass 174	(6.99
176	> 95.0%, but < 101.0% of mass 174	(96.77
177	5.0 - 9.0% of mass 176	(6.97

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

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

	EPA SAMPLE ID.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED
01		≠ 296-25 (c.i ppbv)	J01C904	1-9-97	09:24
02		≠ 296-25 (c.5 ppbv)	J01C905	1-9-97	10:04
03		≠ 296-25 (5.0 ppbv)	J01C906	1-9-97	10:44
04		≠ 296-25 (10.0 ppbv)	J01C907	1-9-97	11:27
05		≠ 296-25 (25.0 ppbv)	J01C908	1-9-97	12:08
06		≠ 296-25 (50.0 ppbv)	J01C909	1-9-97	12:48
07		≠ 296-25 (75.0 ppbv)	J01C910	1-9-97	13:31
08		System Blank	J01C911	1-9-97	14:11
09		TO14-0001 (25.0 ppbv)	J01C912	1-9-97	14:51
10		System Blank	J01C913	1-9-97	15:41
11		TO14-0001 (25.0 ppbv)	J01C914	1-9-97	16:21
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

FORM V-AT_

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Notebook No. 299

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Continued From Page —

File #	Sample Name/Client	Can #	Pressure	Amount	D.F.	Int.
J010601	Lab Blank	94300		500.0 ml	1.0	FA
J010602	Lab Blank	94300		500.0 ml	1.0	FA
J010603	#296-25 100 ppbv	(5.0 ppbv)		25.0 ml	20.0	FA
J010604	#296-25 100 ppbv			50.0 ml	1.0	FA
J010605	Lab Blank	94300		500.0 ml	1.0	FA
				FA	1-7-97	
J010701	System Blank	Bag		250.0 ml	1.0	FA
J010702	BFB Tune Check #275-3-25			2.0 ul	1.0	FA
J010703	Can Cert.	10766		1.0L	1.0	FA
J010704	Can Cert.	05365		1.0L	1.0	FA
J010705	Can Cert.	12703		1.0L	1.0	FA
J010706	Can Cert.	14111		1.0L	1.0	FA
J010707	Can Cert.	10763		1.0L	1.0	FA
J010708	Can Cert.	05711		1.0L	1.0	FA
J010709	Can Cert.	22673		1.0L	1.0	FA
				FA	1-9-97	
J010901	Lab Blank	94300		500.0 ml	1.0	FA
J010902	Lab Blank	94300		500.0 ml	1.0	FA
J010903	BFB Tune Check #275-3-25			2.0 ul	1.0	FA
J010904	#296-25 100 ppbv	(0.1 ppbv)		0.5 ml	1.0	FA
J010905	#296-25 100 ppbv	(0.5 ppbv)		2.5 ml	1.0	FA
J010906	#296-25 100 ppbv	(5.0 ppbv)		25.0 ml	1.0	FA
J010907	#296-25 100 ppbv	(10.0 ppbv)		50.0 ml	1.0	FA
J010908	#296-25 100 ppbv	(25.0 ppbv)		125.0 ml	1.0	FA
J010909	#296-25 100 ppbv	(50.0 ppbv)		250.0 ml	1.0	FA
J010910	#296-25 100 ppbv	(75.0 ppbv)		375.0 ml	1.0	FA
J010911	System Blank	Bag		250.0 ml	1.0	FA
J010912	T014-0001 1.0 ppmv	(25.0 ppbv)		12.5 ml	4.0	FA

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Read and Understood By

Signed Date Signed Date

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

REVIEWED BY
FEB 2 - 1997
FRANCISCO AYALA

Lab Name: AIR TOXICS LIMITED
Lab Code:
Lab File ID: J022501
Instrument ID: MSD-J
Matrix: Ambient Air

SDG No:
Contract:
BFB Injection Date: 2-25-97
BFB Injection Time: 8:05

	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.79
75	30.0 - 60.0% of mass 95	48.00
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.98
173	< 2.0% of mass 174	0.31) 1
174	> 50.0% of mass 95	66.95
175	5.0 - 9.0% of mass 174	(7.28) 1
176	> 95.0%, but < 101.0% of mass 174	(99.12) 1
177	5.0 - 9.0% of mass 176	(6.48) 2

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

LINE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

EPA SAMPLE ID.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED
	#296-71	J022502	2-25-97	8:35
	~~[illegible]~~ 2/25/97 System Blank	J022503	2-25-97	9:33
	#296-71	J022504	2-25-97	10:50
	System Blank	J022505	2-25-97	11:47
	Lab Blank	J022506	2-25-97	12:36
	9702120-01A	J022507	2-25-97	13:35
	9702120-02A	J022508	2-25-97	14:17
	9702139-01A	J022509	2-25-97	15:05
	9702139-02A	J022510	2-25-97	15:48
	9702139-02AA Dup.	J022511	2-25-97	16:36
	System Blank	J022512	2-25-97	17:33
	CAN CERT # 12958	J022513	2-25-97	18:31
	CAN CERT # 9557	J022514	2-25-97	19:14
	CAN CERT # 12699	J022515	2-25-97	20:21
	System Blank	J022516	2-25-97	21:04

PROJECT MSD-J COPY FROM ATL Notebook No. 299 ~~0002~~ 0004

Continued From Page

File #	Sample Name/Client	Can #	Pressure	Amount	Dil.	Initial
x J022401	#275-8-25 BFB Tune Check			2 µl	1.0	MH
✓ J022402	#275-8-25 BFB Tune Check			2 µl	1.0	MH
J022403	#296-67 (T014 Std.) (0.2 ppbv)			1 ml	1.0	MH
J022404	#296-67 (T014 Std.) (5 ppbv) MH 2/24/97			25 ml	1.0	MH
J022405	System Blank	Bag		250 ml	1.0	MH
✓ J022406	#275-8-25 BFB Tune Check			2 µl	1.0	MH
J022407	#51178 T014 std 5 ppmv injected on GC directly			0.5 ml	1.0	MH
J022408	#296-67 Load on Tekmar			25 ml	1.0	MH
J022409	#296-67			25 ml	1.0	MH
✓ J022410	#296-67 Low level (0.2 ppbv)			1 ml	1.0	MH
J022411	#296-67			25 ml	1.0	MH
J022412	#296-67			25 ml	1.0	MH
J022413	296-67			25 ml	1.0	STC
J022414	296-67			50 ml	1.0	STC
J022415	System Blank			250 ml	1.0	STC
J022416	Lab Blank			500 ml	1.0	STC

[signature] 2/25/97

File #	Sample Name/Client	Can #	Pressure	Amount	Dil.	Initial
✓ J022501	#275-8-25 BFB Tune Check			2 µl	1.0	MH
J022502	#296-71 T014 Std.			25 ml	1.0	MH
✓ J022504	#296-71 T014 Std.			25 ml	1.0	MH
MH 2/24/97 J022503	System Blank	Bag		250 ml	1.0	MH
J022505	System Blank	Bag		250 ml	1.0	MH
✓ J022506	Lab Blank	05407		500 ml	1.0	MH
✓ J022507	9702120-01A/Tekmar	96112	14.5" → 5 psi	500 ml	2.57	MH
✓ J022508	9702120-02A	96108	12.5" → 5 psi	500 ml	2.30	MH
✓ J022509	9702139-01A/Perrone	13853	7.5" → 5 psi	500 ml	1.77	MH
✓ J022510	9702139-02A	12004	4.5" → 5 psi	500 ml	1.58	MH
✓ J022511	9702139-02AA Dup.	12004	4.5" → 5 psi	500 ml	1.58	MH
J022512	System Blank	Bag		250 ml	1.0	MH
J022513	CAN CERT # 12958			500 mL	1.0	L
J022514	CAN CERT # 9557			500 mL	1.0	L
J022515	CAN CERT # 12699			500 mL	1.0	L
J022516	System Blank			250 mL	1.0	L

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[signature] 2/26/97

Signed Date Signed Date

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PROJECT MSD-J

Notebook No. 299 0005

Continued From Page —

Filament 2 —
Filament 1
Filament 2 →

Filament 2 —

Filament 1 -

Increase ~~multiplier~~ Multiplier so ~~[illegible]~~ —
BCM's Area goes back to 220481

IS (#296-28)	Area (cts)
B C M:	221139
1,4-DFB:	1002893
C B-d5:	931057

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[signature] 2/26/97

Signed Date Signed Date

AIR TOXICS LTD.

SAMPLE NAME: 021597U1

ID#: 9702139-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name: j022509 **Date of Collection:** 2/15/97

Dil. Factor: 1.79 **Date of Analysis:** 2/25/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.90	Not Detected
cis-1,2-Dichloroethene	0.18	Not Detected
1,1,1-Trichloroethane	0.18	Not Detected
Benzene	0.18	0.54
1,2-Dichloroethane	0.18	Not Detected
Trichloroethene	0.18	Not Detected
1,2-Dichloropropane	0.18	Not Detected
Toluene	0.18	0.60
Tetrachloroethene	0.18	Not Detected
Chlorobenzene	0.18	Not Detected
Ethyl Benzene	0.18	Not Detected
m,p-Xylene	0.18	0.19
o-Xylene	0.18	Not Detected
Styrene	0.18	Not Detected
Acetone	0.90	13
Carbon Disulfide	0.90	Not Detected
trans-1,2-Dichloroethene	0.90	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.90	4.6

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	106	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	110	70-130

Data File: /chem/msdj.i/j-25feb.b/j022509.d
Report Date: 26-Feb-1997 09:04

MH 2/26/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-25feb.b/j022509.d
Lab Smp Id: 9702139-01A
Inj Date : 25-FEB-1997 15:05
Operator : MH
Smp Info : 500mL Can#13853
Misc Info : 7.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 15:32 mhe
Cal Date : 09-JAN-1997 12:48
Als bottle: 1
Dil Factor: 1.790
Integrator: HP RTE
Target Version: 3.12
Concentration Formula: Uf * Vf

Client Smp ID: 021597U1
Inst ID: msdj.i
Quant Type: ISTD
Cal File: j010909.d
Compound Sublist: Parsons.sub
Sample Matrix: AIR

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

REVIEWED BY
FEB 26 1997
FRANCISCO AYALA

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.387	16.358 (1.000)	130	201593	5.0			100.00	9059
16.387	16.358 (0.000)	128	45096			28.11- 128.11	22.37	
16.387	16.358 (0.000)	49	113741			130.70- 230.70	56.42	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.921	16.892 (1.033)	217	495450	5.3	5.3		100.00	8035
16.921	16.892 (0.000)	186	101536			13.05- 113.05	20.49	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.737	17.700 (1.000)	114	894606	5.0			100.00	9251
17.737	17.700 (0.000)	88	50896			0.00- 68.37	5.69	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.759	19.730 (1.114)	98	877153	5.4	5.4		100.00	9977
19.759	19.730 (0.000)	70	34818			0.00- 63.02	3.97	
19.759	19.730 (0.000)	100	168064			15.19- 115.19	19.16	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.827	21.790 (1.000)	117	841863	5.0			100.00	9865
21.827	21.790 (0.000)	82	141312			10.83- 110.83	16.79	

Data File: /chem/msdj.i/j-25feb.b/j022509.d
Report Date: 26-Feb-1997 09:04

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 65 Bromofluorobenzene					CAS #: 460-00-4			
23.665	23.621 (1.084)	95	722204	5.5	5.5		100.00	8035
23.665	23.621 (0.000)	174	97264			7.77- 107.77	13.47	
23.665	23.621 (0.000)	176	94512			7.57- 107.57	13.09	
16 Acetone					CAS #: 67-64-1			
13.099	13.092 (0.799)	43	588450	7.4	13.2		100.00	
13.091	13.092 (0.799)	58	180962			0.00- 79.57	30.75	
28 2-Butanone					CAS #: 78-93-3			
16.028	15.991 (0.978)	72	57260	2.6	4.6		100.00	7757
16.028	15.991 (0.000)	43	76306			439.21- 539.21	133.26	
16.028	15.991 (0.000)	57	5063			0.00- 83.45	8.84	
37 Benzene					CAS #: 71-43-2			
17.280	17.250 (0.974)	78	51206	0.30	0.54		100.00	9220
17.280	17.250 (0.000)	77	3637			0.00- 74.19	7.10	
51 Toluene					CAS #: 108-88-3			
19.851	19.821 (1.119)	92	34426	0.33	0.60		100.00	7910
19.851	19.821 (0.000)	91	17517			116.37- 216.37	50.88	
61 m,p-Xylene					CAS #: 108-38-3			
22.117	22.080 (1.013)	106	9483	0.11	0.19		100.00	
22.117	22.080 (1.013)	91	21258			164.96- 264.96	224.17	

MH 2/26/97

Audit History For: /chem/msdj.i/j-25feb.b/j022509.d

Change Date: 25-Feb-97 15:32
Change Made by: Automation

Parameter: ChemLan Data Transfer
Old Value:
New Value:
Reason For Change: MS Data from Instrument: msdj.i

Change Date: 25-Feb-97 15:32
Change Made by: Automation

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Complete Target Compound Processing

Change Date: 25-Feb-97 15:37
Change Made by: mhe

Parameter: date
Old Value: 25-FEB-97 15:05
New Value: 25-FEB-1997 15:05
Reason For Change: N/A

Change Date: 25-Feb-97 15:37
Change Made by: mhe

Parameter: Misc Information
Old Value:
New Value: 7.5"Hg-5.0psi Parsons
Reason For Change: N/A

Change Date: 25-Feb-97 15:37
Change Made by: mhe

Parameter: Compound Sublist
Old Value: AT.sub
New Value: Parsons.sub
Reason For Change: N/A

Change Date: 25-Feb-97 15:37
Change Made by: mhe

Parameter: Sample Info
Old Value: 9702139-01A 500mL Can#13853 7.5"-5psi Parsons 021597U1
New Value: 500mL Can#13853
Reason For Change: N/A

Change Date: 25-Feb-97 15:37
Change Made by: mhe

Parameter: Lab ID
Old Value:
New Value: 9702139-01A
Reason For Change: N/A

Change Date: 25-Feb-97 15:37
Change Made by: mhe

Parameter: Client ID
Old Value: VSTD150
New Value: 021597U1
Reason For Change: N/A

Change Date: 25-Feb-97 15:37
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 26-Feb-97 09:00
Change Made by: mhe

Parameter: Best Hit for Carbon Disulfide changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:00
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:00
Change Made by: mhe

Parameter: Best Hit for Methylene Chloride changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:00
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:00
Change Made by: mhe

Parameter: Best Hit for 1,1,1-Trichlorethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:00
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:

Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Best Hit for Trichloroethene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Manual reintegration of Trichloroethene (Signal 1)
Old Value: No previous peak at 18.142
New Value: New Area/Time: 1485 / 18.14
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Best Hit for Trichloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloropropane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Manual reintegration of Tetrachloroethene (Signal 1)
Old Value: No previous peak at 20.644
New Value: New Area/Time: 793 / 20.64
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Manual reintegration of Chlorobenzene (Signal 1)
Old Value: No previous peak at 21.895
New Value: New Area/Time: 849 / 21.90
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene changed
Old Value: Old Hit #1
New Value: Compound Undetected

Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Manual reintegration of Ethyl Benzene (Signal 1)
Old Value: Old Area/Time: 9434 / 22.12
New Value: New Area/Time: 3235 / 21.96
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Best Hit for Ethyl Benzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Best Hit for o-Xylene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:01
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:02
Change Made by: mhe

Parameter: Best Hit for Styrene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 26-Feb-97 09:02
Change Made by: mhe

Parameter: Manual reintegration of Styrene (Signal 1)
Old Value: No previous peak at 22.788
New Value: New Area/Time: 790 / 22.79
Reason For Change: N/A

Change Date: 26-Feb-97 09:02
Change Made by: mhe

Parameter: Best Hit for Styrene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:02
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:02
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Compound Undetected
New Value: New Hit #2
Reason For Change: N/A

Change Date: 26-Feb-97 09:02
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:02
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #2
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:02
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:03
Change Made by: mhe

Parameter: Best Match for Unknown compound at 15.853 min. changed.
Old Value: Old match: Silanol, trimethyl-
New Value: New match: Unknown Compound Deleted

Reason For Change: N/A

Change Date: 26-Feb-97 09:03
Change Made by: mhe

Parameter: Best Match for Unknown compound at 20.064 min. changed.
Old Value: Old match: Cyclotrisiloxane, hexamethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:03
Change Made by: mhe

Parameter: Best Match for Unknown compound at 23.261 min. changed.
Old Value: Old match: Acetamide, N,N-dimethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:03
Change Made by: mhe

Parameter: Best Match for Unknown compound at 26.473 min. changed.
Old Value: Old match: Phenol
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:03
Change Made by: mhe

Parameter: Best Match for Unknown compound at 27.053 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:03
Change Made by: mhe

Parameter: Best Match for Unknown compound at 34.957 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:04
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Quantitation

Data File: /chem/msdj.i/j-25feb.b/j022509.d
Report Date: 25-Feb-1997 15:37

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-25feb.b/j022509.d
Lab Smp Id: 9702139-01A Client Smp ID: 021597U1
Inj Date : 25-FEB-1997 15:05
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#13853
Misc Info : 7.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 15:32 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.790
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.387	16.358 (1.000)	130	201593	5.0			100.00	9059
16.387	16.358 (0.000)	128	45096			28.11- 128.11	22.37	
16.387	16.358 (0.000)	49	113741			130.70- 230.70	56.42	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.921	16.892 (1.033)	217	495450	5.3	5.3		100.00	8035
16.921	16.892 (0.000)	186	101536			13.05- 113.05	20.49	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.737	17.700 (1.000)	114	894606	5.0			100.00	9251
17.737	17.700 (0.000)	88	50896			0.00- 68.37	5.69	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.759	19.730 (1.114)	98	877153	5.4	5.4		100.00	9977
19.759	19.730 (0.000)	70	34818			0.00- 63.02	3.97	
19.759	19.730 (0.000)	100	168064			15.19- 115.19	19.16	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.827	21.790 (1.000)	117	841863	5.0			100.00	9865
21.827	21.790 (0.000)	82	141312			10.83- 110.83	16.79	

Data File: /chem/msdj.i/j-25feb.b/j022509.d
Report Date: 25-Feb-1997 15:37

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
65 Bromofluorobenzene						CAS #: 460-00-4			
23.665	23.621	(1.084)	95	722204	5.5	5.5		100.00	8035
23.665	23.621	(0.000)	174	97264			7.77- 107.77	13.47	
23.665	23.621	(0.000)	176	94512			7.57- 107.57	13.09	
16 Acetone						CAS #: 67-64-1			
13.099	13.092	(0.799)	43	588450	7.4	13.2		100.00	
13.091	13.092	(0.799)	58	180962			0.00- 79.57	30.75	
17 Carbon Disulfide						CAS #: 75-15-0			
13.206	13.207	(0.806)	76	57533	0.38	0.68		100.00	6800
20 Methylene Chloride						CAS #: 75-09-2			
13.946	13.932	(0.851)	84	6754	0.15	0.26		100.00	4330
13.946	13.932	(0.000)	49	3313			102.14- 202.14	49.05	
13.946	13.932	(0.000)	51	1115			0.00- 96.86	16.51	
28 2-Butanone						CAS #: 78-93-3			
16.028	15.991	(0.978)	72	57260	2.6	4.6		100.00	7757
16.028	15.991	(0.000)	43	76306			439.21- 539.21	133.26	
16.028	15.991	(0.000)	57	5063			0.00- 83.45	8.84	
15.761	15.991	(0.962)	72	107992	4.8	8.7		100.00	4515(Q)
15.761	15.991	(0.000)	43	48354			439.21- 539.21	44.78	
15.761	15.991	(0.000)	57	16033			0.00- 83.45	14.85	
16.463	15.991	(1.005)	72	3428	0.15	0.28		100.00	2371(Q)
16.463	15.991	(0.000)	43	214			439.21- 539.21	6.24	
16.463	15.991	(0.000)	57	60			0.00- 83.45	.75	
33 1,1,1-Trichloroethane						CAS #: 71-55-6			
16.761	16.724	(1.023)	97	6841	0.073	0.13		100.00	7230(a)
16.761	16.724	(0.000)	99	955			15.82- 115.82	13.96	
37 Benzene						CAS #: 71-43-2			
17.280	17.250	(0.974)	78	51206	0.30	0.54		100.00	9220
17.280	17.250	(0.000)	77	3637			0.00- 74.19	7.10	
38 1,2-Dichloroethane						CAS #: 107-06-2			
17.310	17.258	(0.976)	62	2059	0.031	0.055		100.00	4830(a)
17.310	17.258	(0.000)	64	151			0.00- 82.38	7.33	
17.737	17.258	(1.000)	62	35343	0.53	0.95		100.00	3442(Q)
17.737	17.258	(0.000)	64	10794			0.00- 82.38	30.54	
43 1,2-Dichloropropane						CAS #: 78-87-5			
18.424	18.410	(1.039)	63	1365	0.023	0.041		100.00	2491(aQ)
18.424	18.410	(0.000)	62	310			25.40- 125.40	22.71	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY	
43 1,2-Dichloropropane (continued)									
18.424	18.410 (0.000)	41	66962			11.72- 111.72	4905.64		
51 Toluene					CAS #: 108-88-3				
19.851	19.821 (1.119)	92	34426	0.33	0.60		100.00	7910	
19.851	19.821 (0.000)	91	17517			116.37- 216.37	50.88		
60 Ethyl Benzene					CAS #: 100-41-4				
22.117	21.919 (1.013)	106	9434	0.10	0.19		100.00		(Q)
22.117	21.919 (1.013)	91	20695			296.25- 396.25	219.37		
61 m,p-Xylene					CAS #: 108-38-3				
22.117	22.080 (1.013)	106	9483	0.11	0.19		100.00		
22.117	22.080 (1.013)	91	21258			164.96- 264.96	224.17		
62 o-Xylene					CAS #: 95-47-6				
22.773	22.736 (1.043)	106	3488	0.065	0.12		100.00	8925	(a)
22.773	22.736 (0.000)	91	2366			172.77- 272.77	67.83		

QC Flag Legend

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

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-25feb.b/j022509.d
Lab Smp Id: 9702139-01A Client Smp ID: 021597U1
Inj Date : 25-FEB-1997 15:05
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#13853
Misc Info : 7.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 15:32 mhe
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.790 Target Version: 3.12
Integrator: HP RTE Compound Sublist: Parsons.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

ISTD		RT	AREA	AMOUNT
* 30	Bromochloromethane	16.387	1369331	5.000
* 40	1,4-Difluorobenzene	17.737	2338818	5.000
* 58	Chlorobenzene-d5	21.827	2818022	5.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
8.949	736519	2.7	4.8	0		0	30
Butanal				CAS #: 123-72-8			
15.761	830850	3.0	5.4	91	NBS54K.l	257	30
ilanol, trimethyl-				CAS #: 1066-40-6			
15.853	368090	1.3	2.4	50	NBS54K.l	840	30

Data File: /chem/msdj.i/j-25feb.b/j022509.d
Report Date: 25-Feb-1997 15:37

RT	AREA	CONCENTRATIONS ON-COL(PPBV)	CONCENTRATIONS FINAL(PPBV)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Unknown					CAS #:		
16.196	576980	2.1	3.8	0		0	30
Acetic acid					CAS #: 64-19-7		
17.409	1070427	2.3	4.1	80	NBS54K.l	13	40
Unknown					CAS #:		
17.905	498539	1.1	1.9	0		0	40
2-Pentanone					CAS #: 107-87-9		
18.287	560401	1.2	2.1	64	NBS54K.l	658	40
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
20.064	1500379	2.7	4.8	56	NBS54K.l	23660	58
Hexanal					CAS #: 66-25-1		
20.766	700829	1.2	2.2	90	NBS54K.l	1424	58
Unknown					CAS #:		
22.971	363349	0.64	1.2	0		0	58
Acetamide, N,N-dimethyl-					CAS #: 127-19-5		
23.261	4903504	8.7	15.6	86	NBS54K.l	707	58
Benzene, 1-phenyl-4-(2-cyano-2-phenyleth					CAS #: 27869-56-3		
23.429	652096	1.2	2.1	53	NBS54K.l	33657	58
Phenol					CAS #: 108-95-2		
26.473	362738	0.64	1.2	91	NBS54K.l	933	58
Unknown					CAS #:		
27.053	299852	0.53	0.95	0		0	58
Unknown					CAS #:		
34.957	317191	0.56	1.0	0		0	58

Data File: /chem/msdj.i/j-25feb.b/j022509.d
Report Date: 25-Feb-1997 15:37

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j022509.d
Lab Smp Id: 9702139-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-25feb.b/to140109.m
Misc Info: 7.5"Hg-5.0psi Parsons

Calibration Date: 02/25/97
Calibration Time: 1050
Client Smp ID: 021597U1
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	221139	132683	309595	201593	-8.84
40 1,4-Difluorobenzene	1000893	600536	1401250	894606	-10.62
58 Chlorobenzene-d5	931057	558634	1303480	841863	-9.58

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	16.36	15.86	16.86	16.39	0.15
40 1,4-Difluorobenzene	17.71	17.21	18.21	17.74	0.18
58 Chlorobenzene-d5	21.79	21.29	22.29	21.83	0.15

MH 2/25/97

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Air Toxics Limited

RECOVERY REPORT

Client Name: Client SDG: j-25feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: 9702139-01A Client Smp ID: 021597U1
Level: LOW Operator: MH
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Method File: /chem/msdj.i/j-25feb.b/to140109.m
Misc Info: 7.5"Hg-5.0psi Parsons

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	5.3	106.07	60-140
$ 49 Toluene-d8	5.0	5.4	108.37	60-140
$ 65 Bromofluorobenzene	5.0	5.5	110.79	60-140

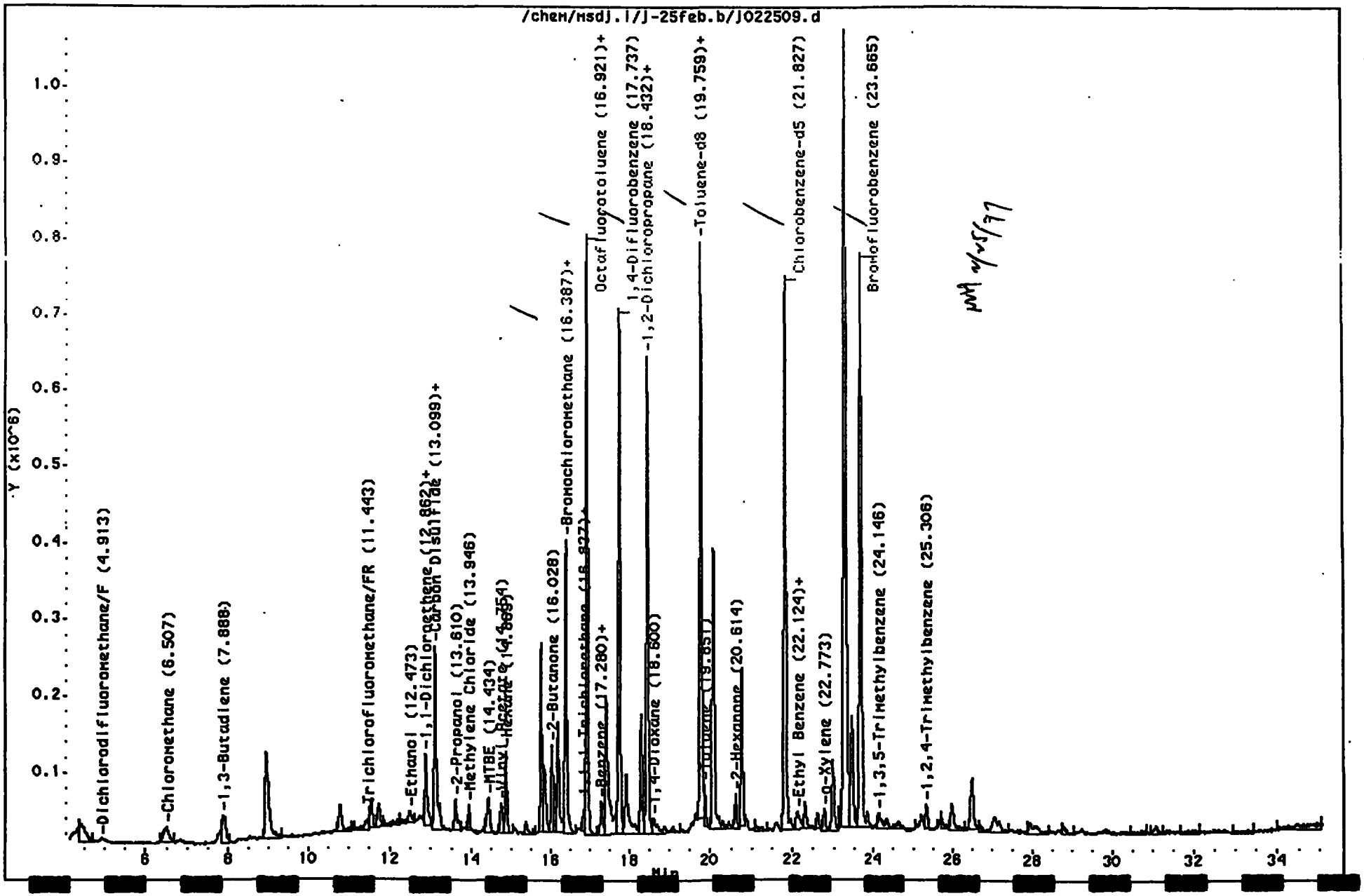
MH
3/11/97

Data File: /chem/msdj.i/j-25feb.b/j022509.d
Date : 25-FEB-1997 15:05
Client ID: 021597U1
Sample Info: 500mL Can#13853

Column phase: RTx-624

Instrument: msdj.i

Operator: MH
Column diameter: 0.58



Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

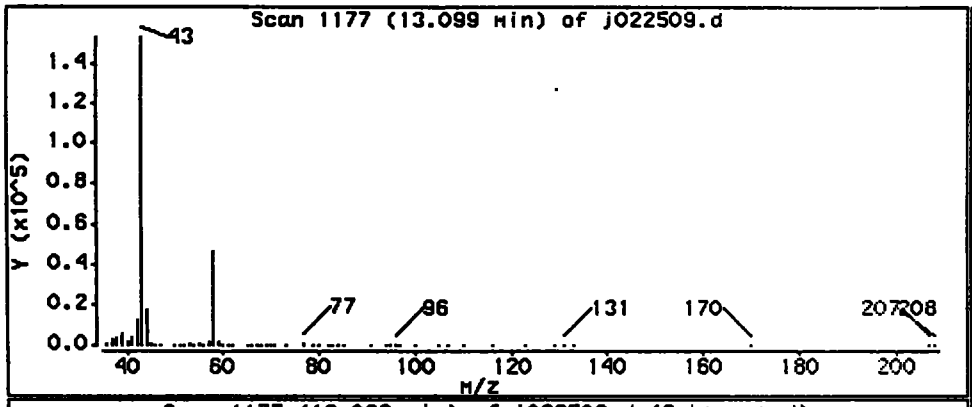
Sample Info: 500mL Can#13853

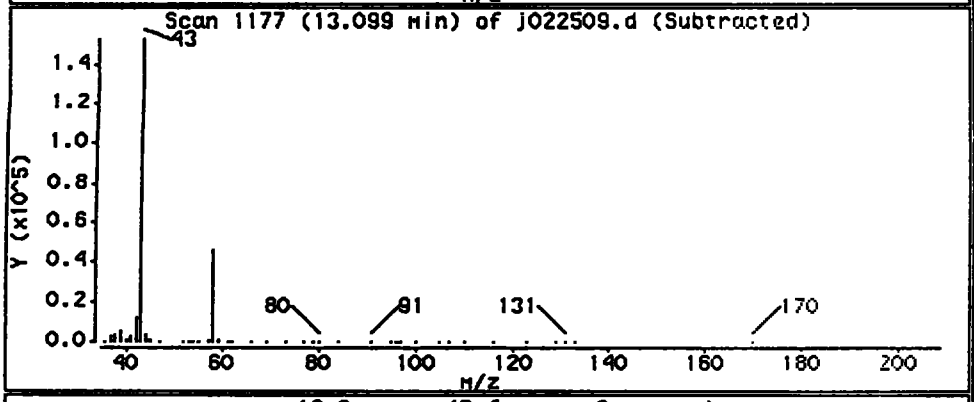
Operator: MH

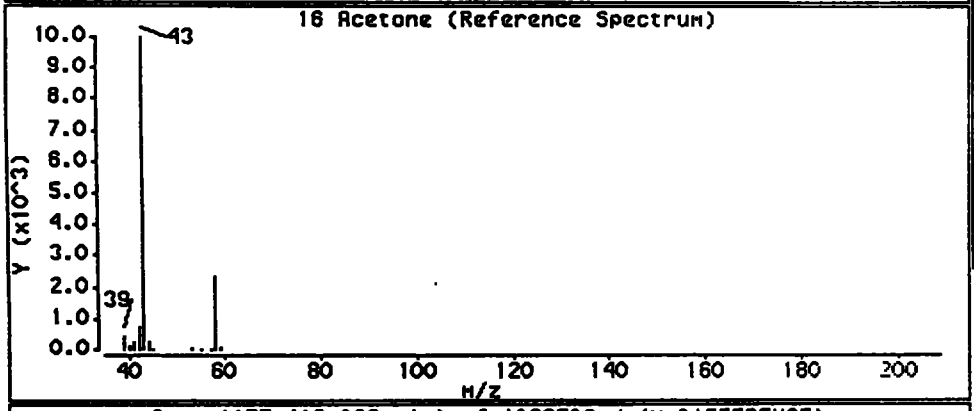
Column phase: RTx-624

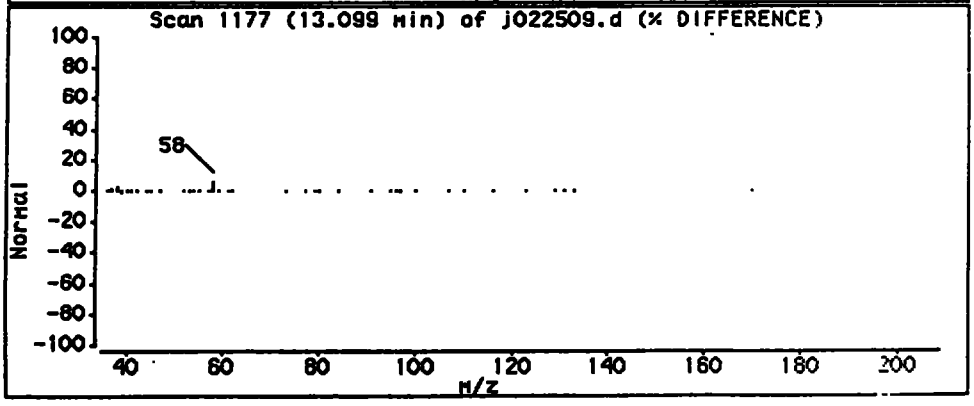
Column diameter: 0.58

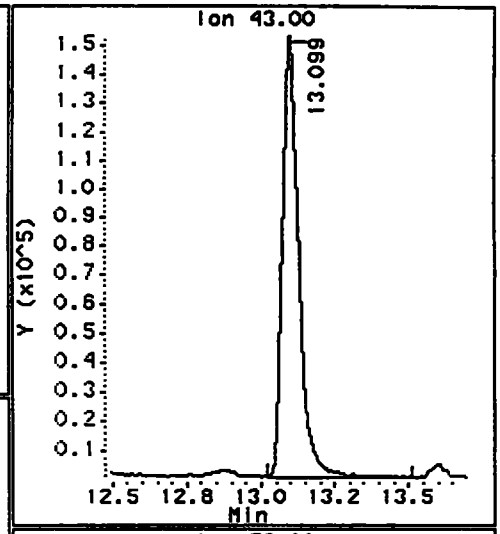
16 Acetone

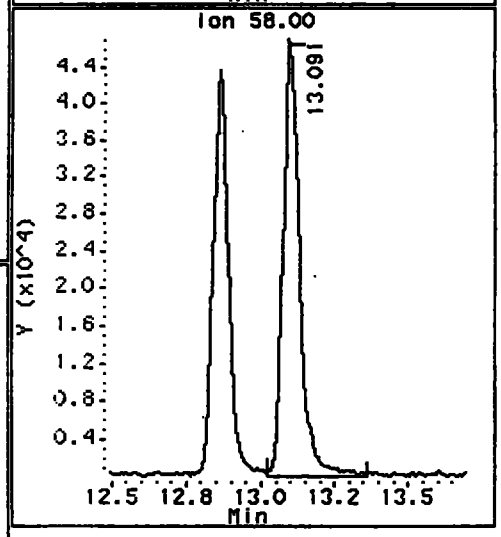












Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

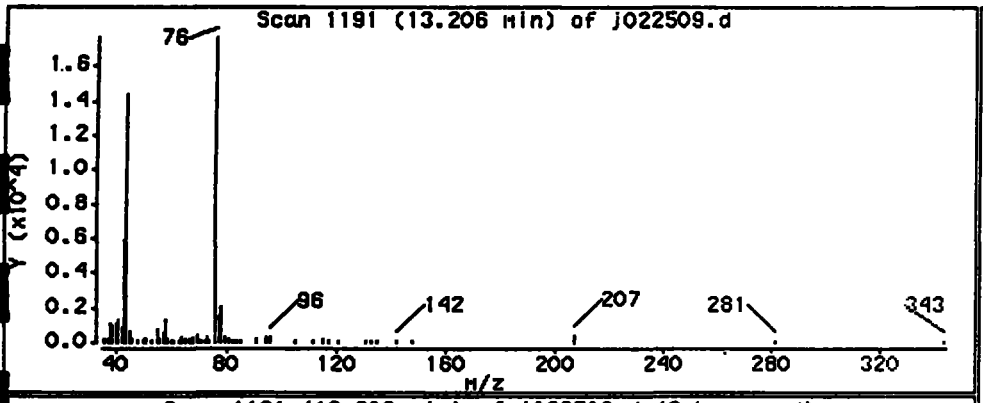
Sample Info: 500mL Can#13853

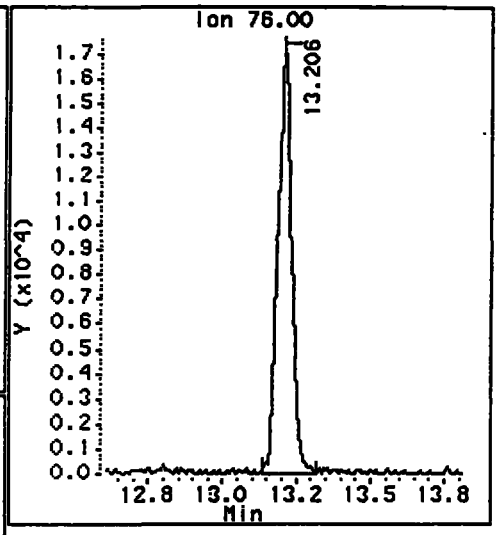
Operator: MH

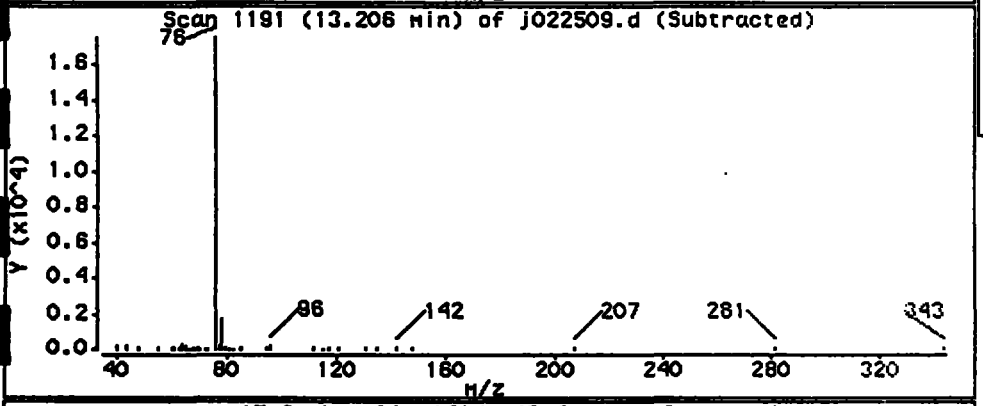
Column phase: RTx-624

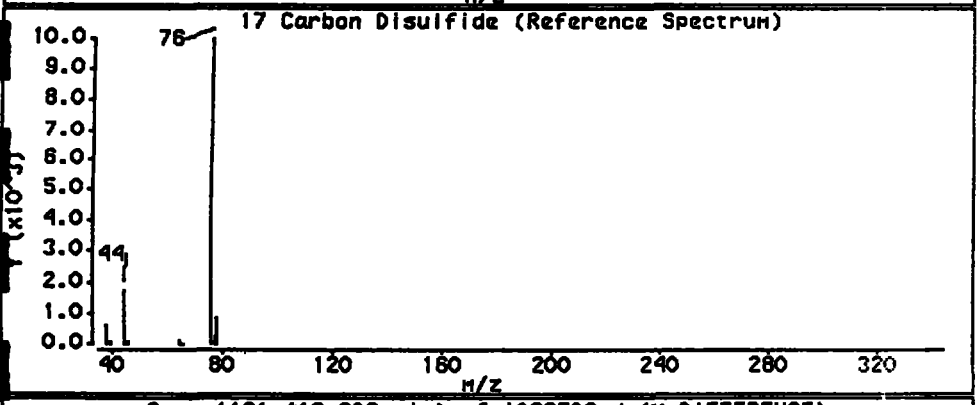
Column diameter: 0.58

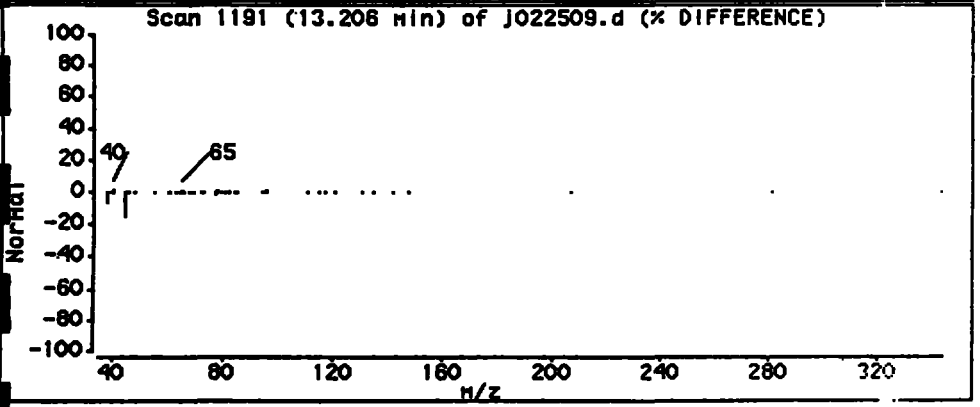
17 Carbon Disulfide











Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

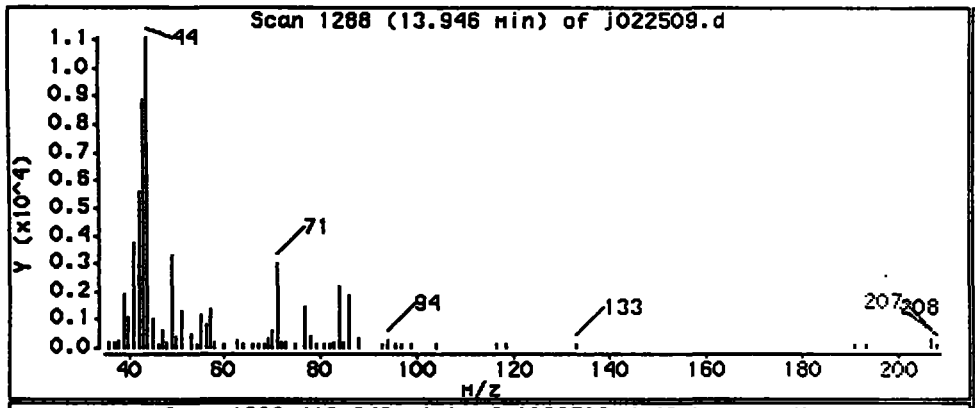
Sample Info: 500mL Can#13853

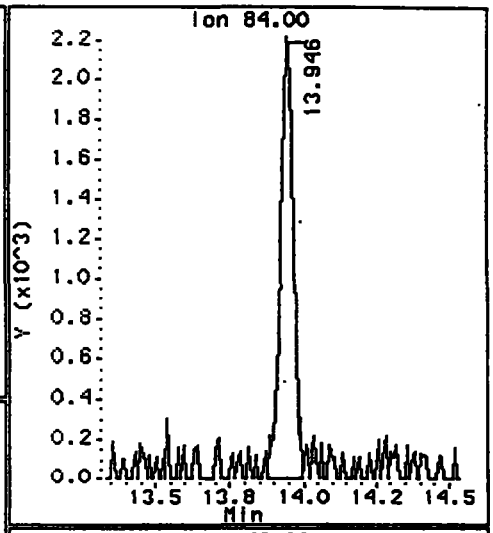
Operator: MH

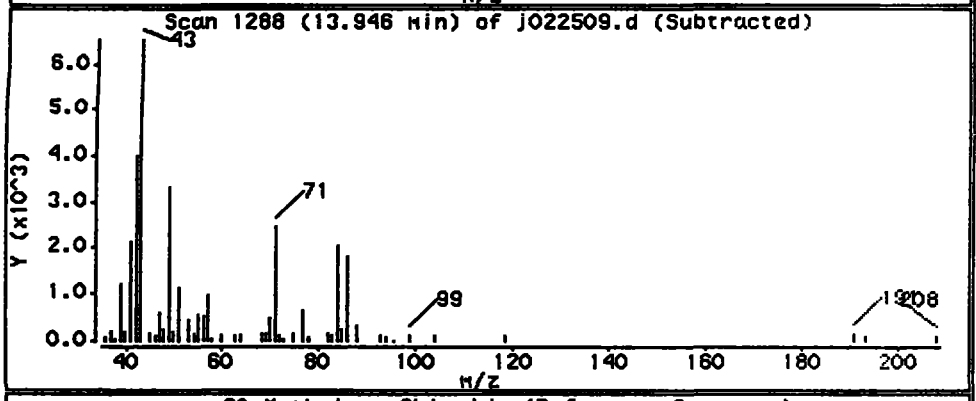
Column phase: RTx-624

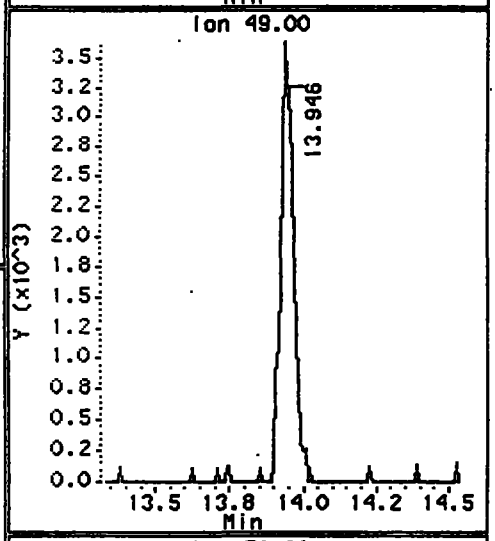
Column diameter: 0.58

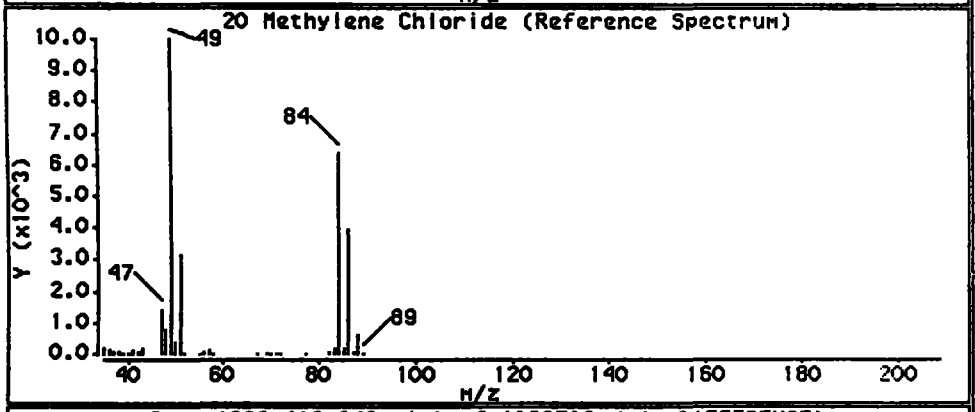
20 Methylene Chloride

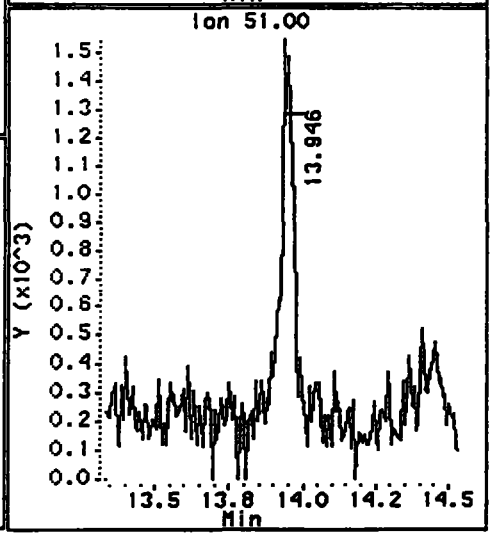


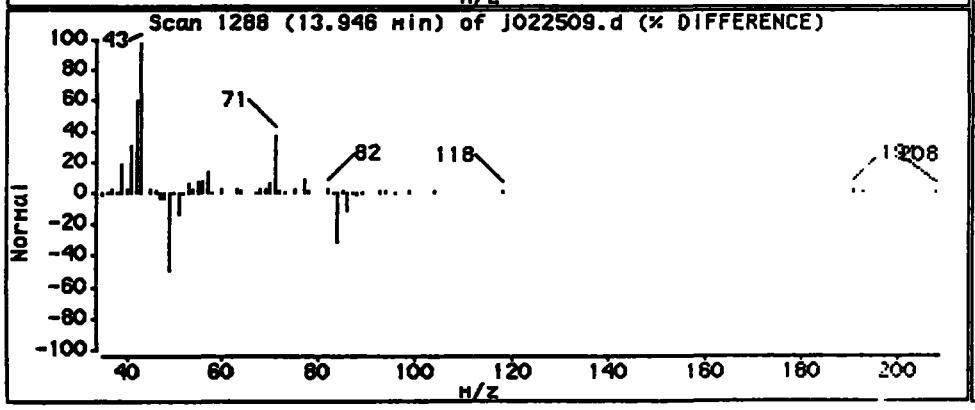












Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

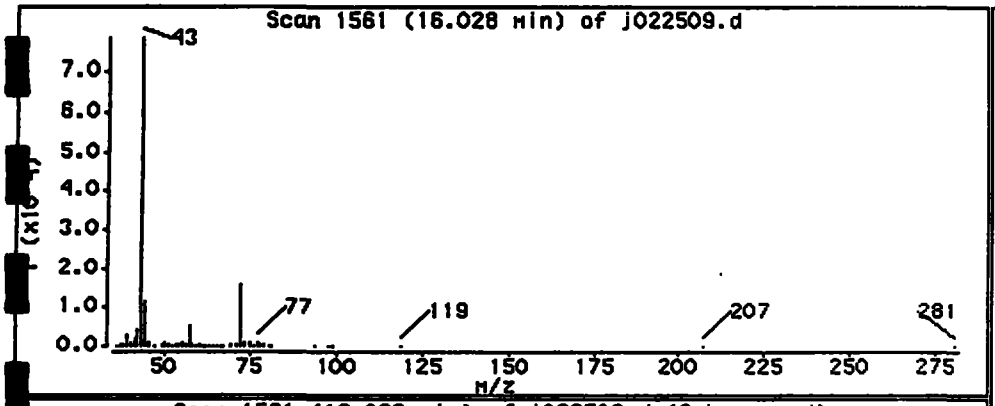
Sample Info: 500mL Can#13853

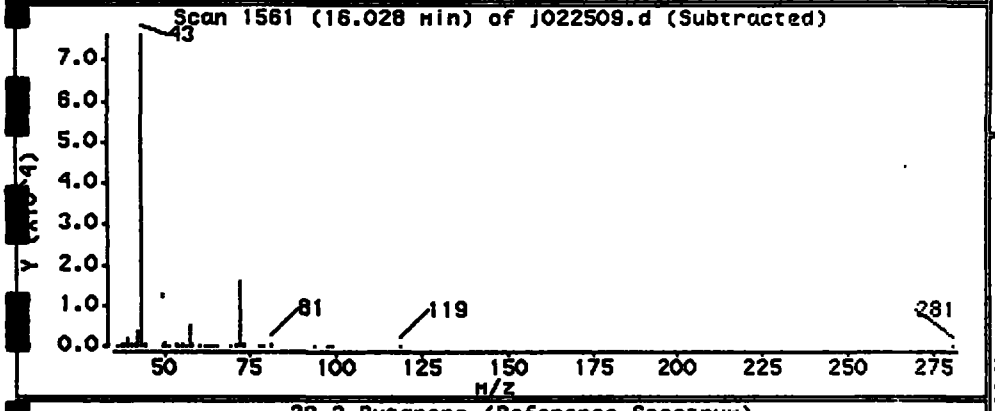
Operator: MH

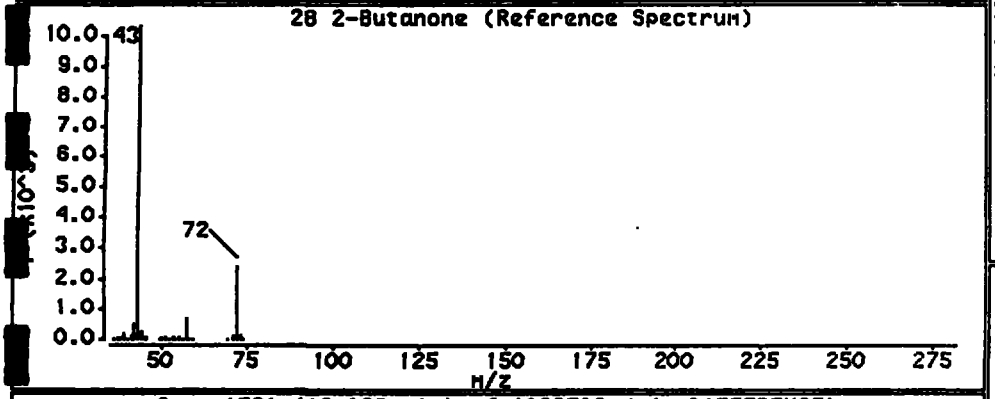
Column phase: RTx-624

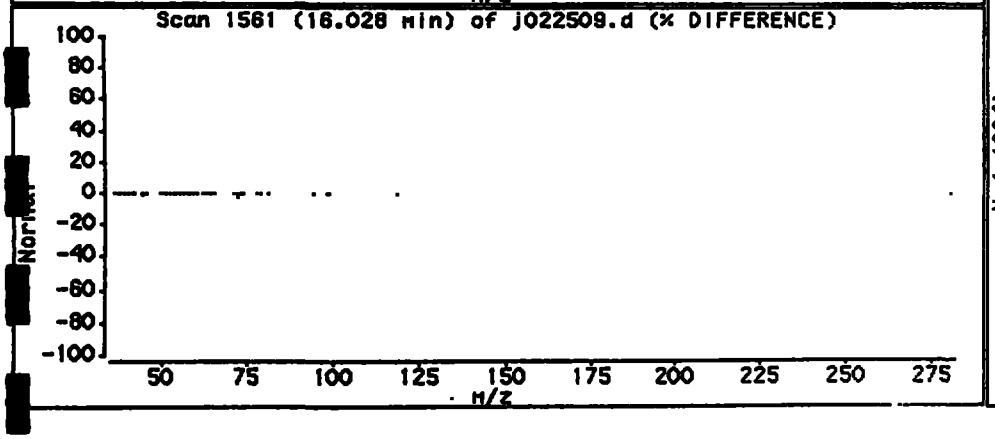
Column diameter: 0.58

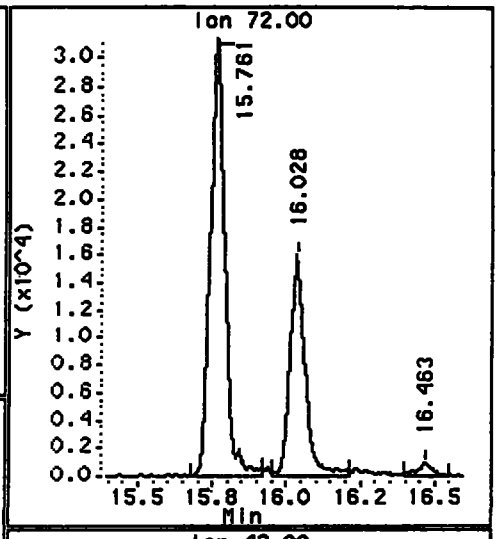
28 2-Butanone

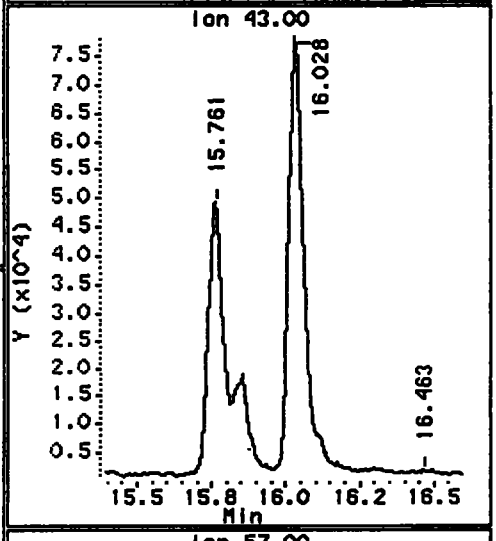


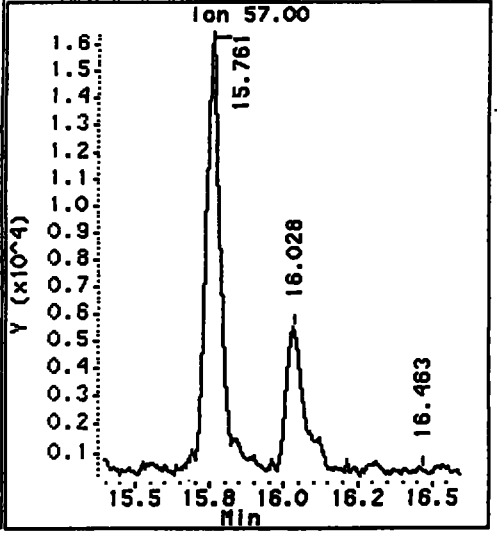












Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

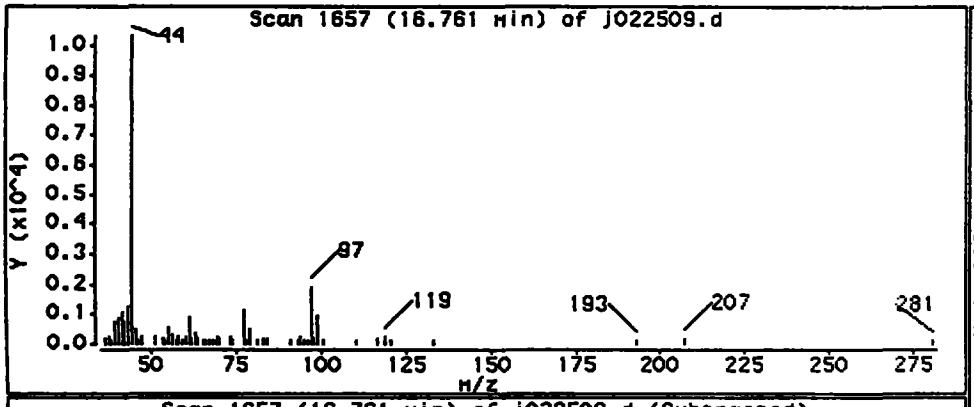
Sample Info: 500mL Can#13853

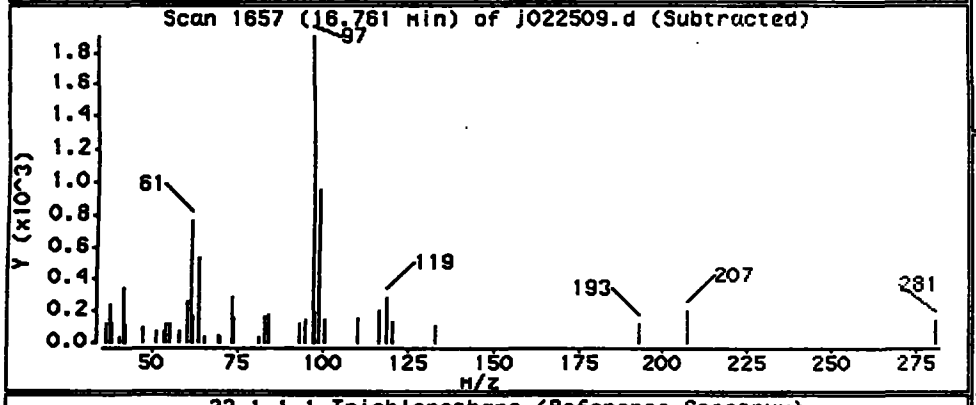
Operator: MH

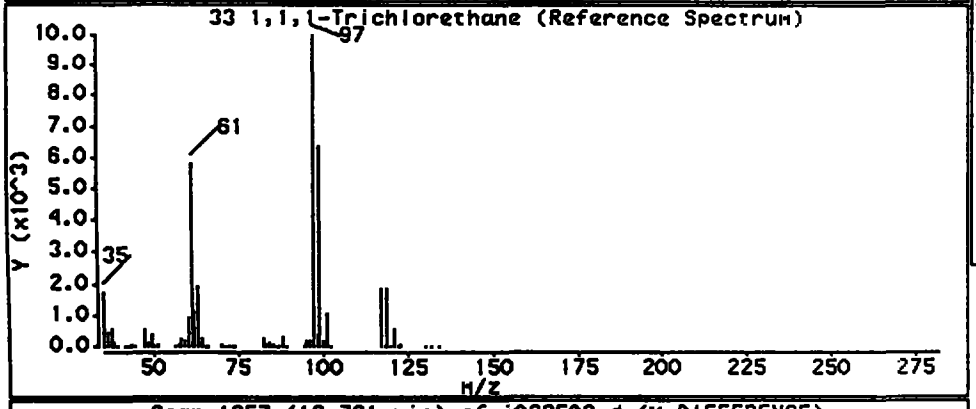
Column phase: RTx-624

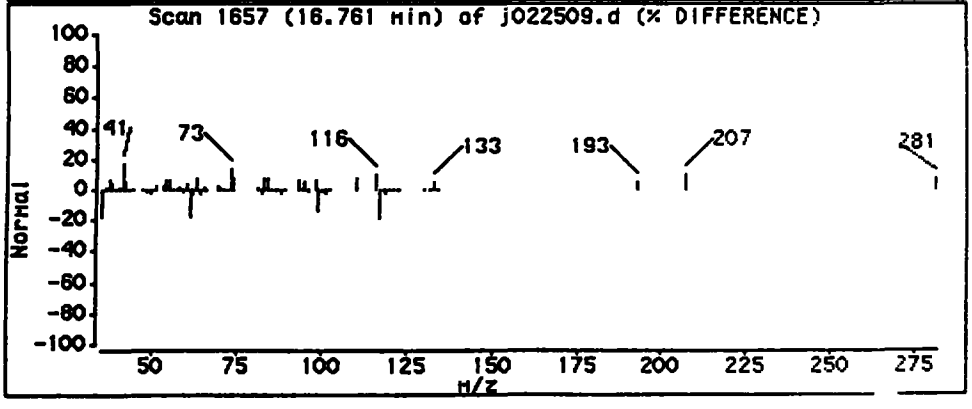
Column diameter: 0.58

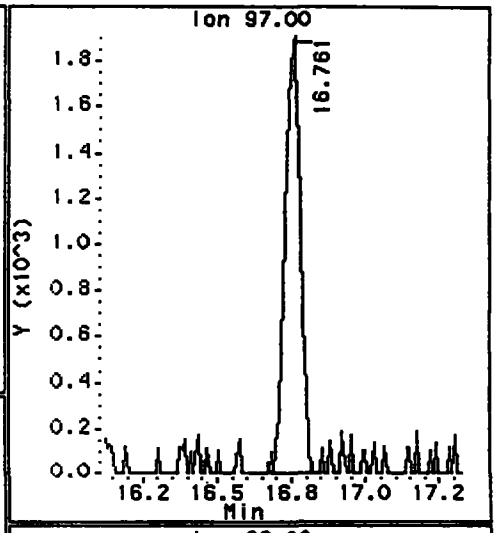
33 1,1,1-Trichlorethane

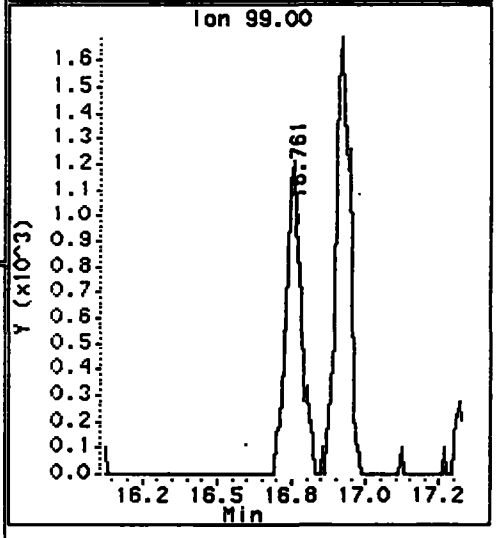












Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

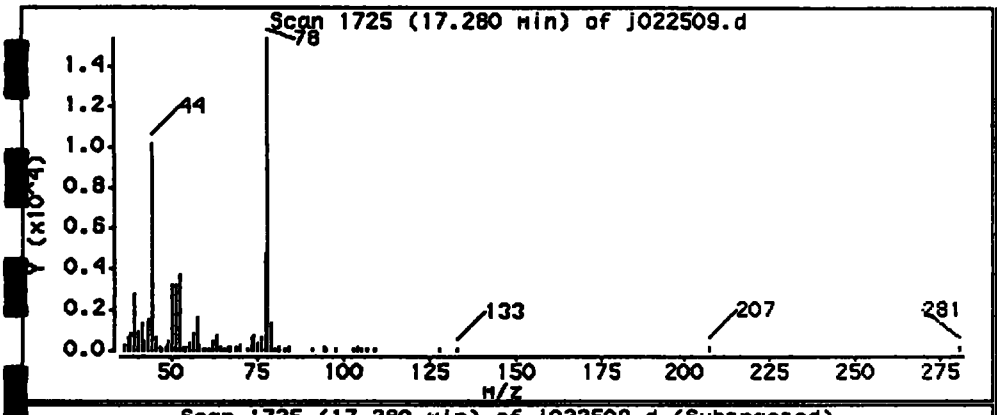
Sample Info: 500mL Can#13853

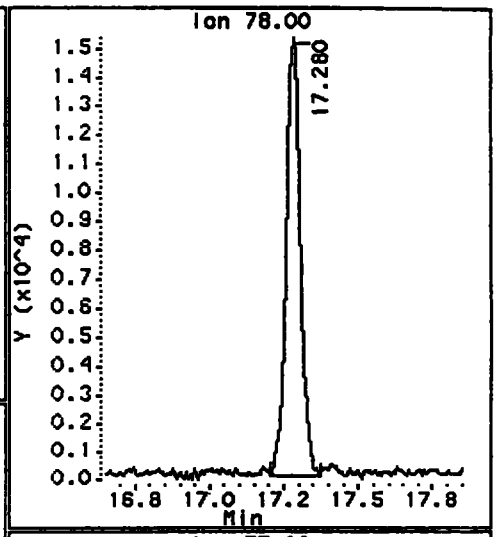
Operator: MH

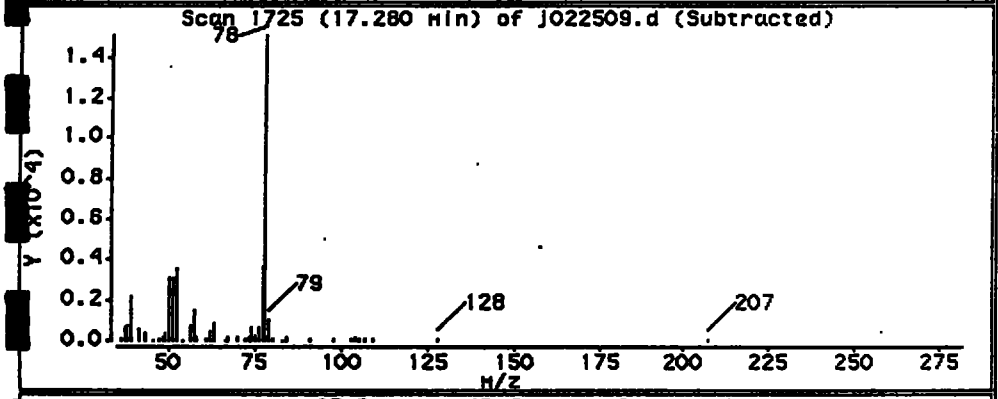
Column phase: RTx-624

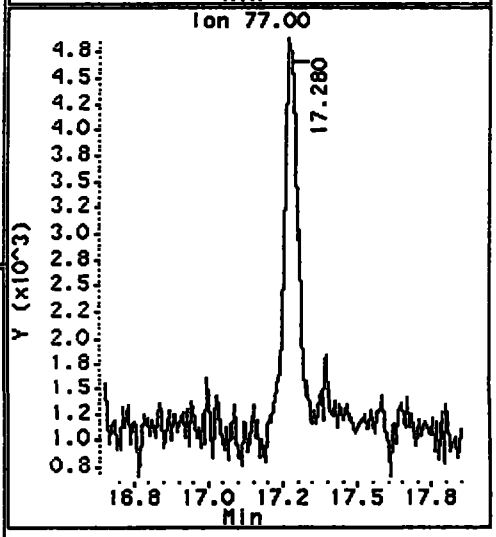
Column diameter: 0.58

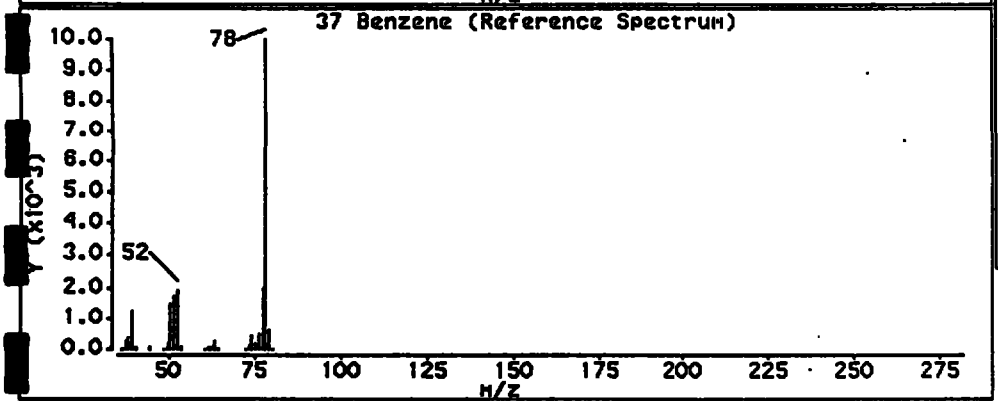
37 Benzene

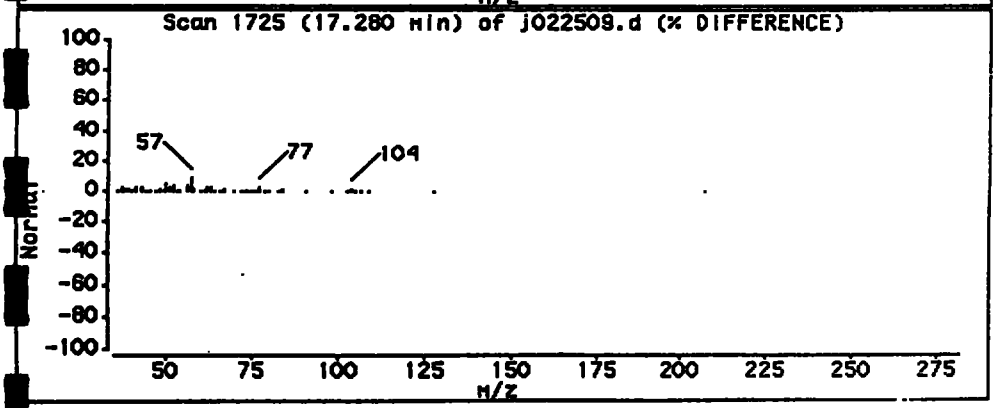












Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

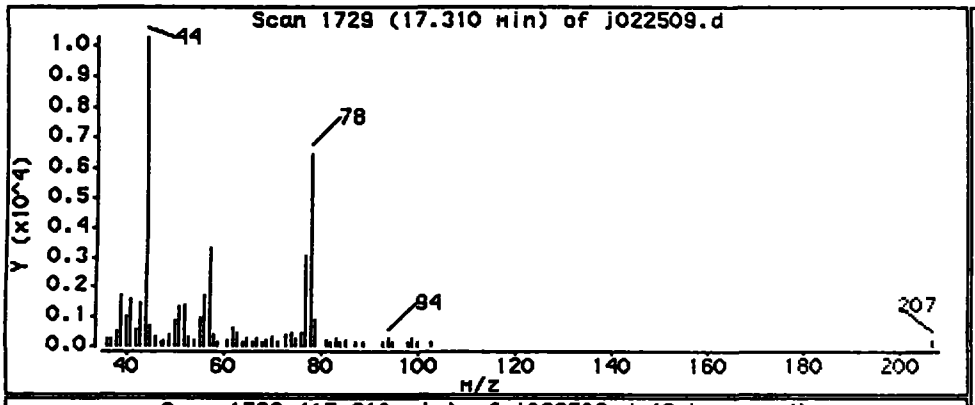
Sample Info: 500mL Can#13853

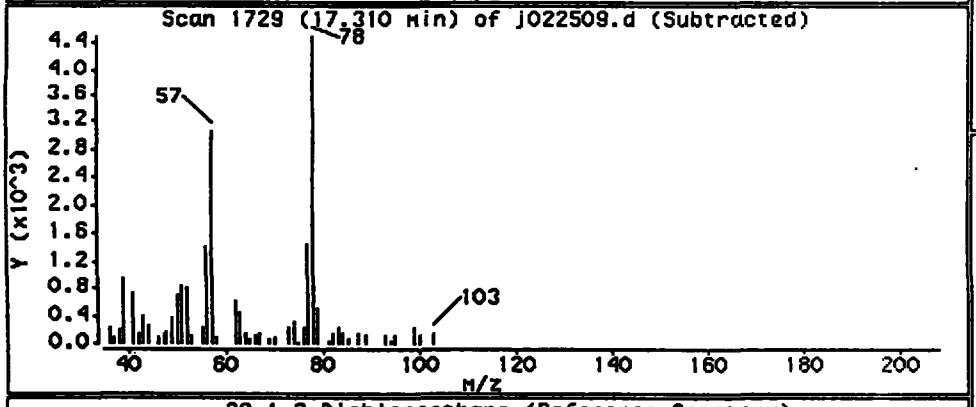
Operator: MH

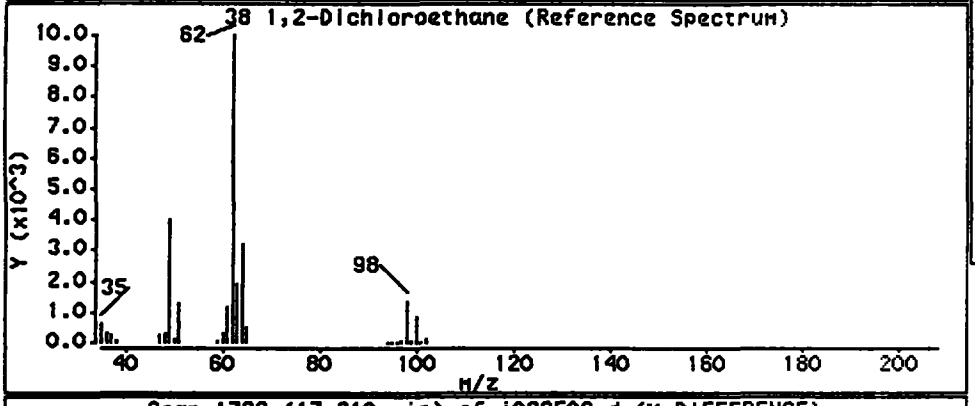
Column phase: RTx-624

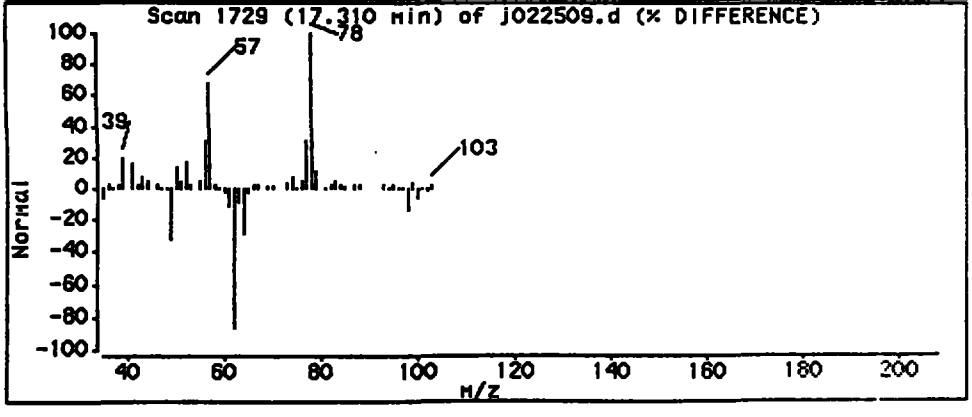
Column diameter: 0.58

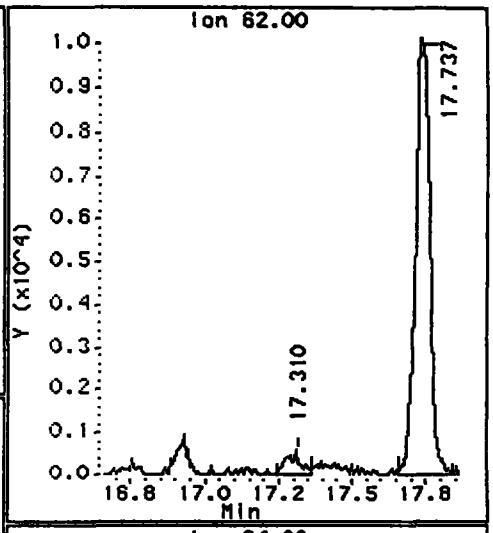
38 1,2-Dichloroethane

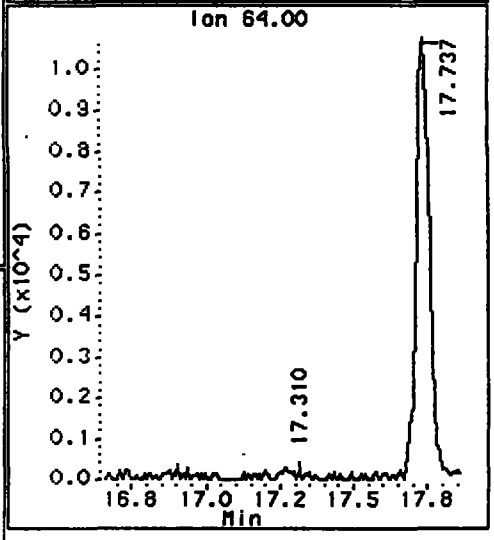












Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

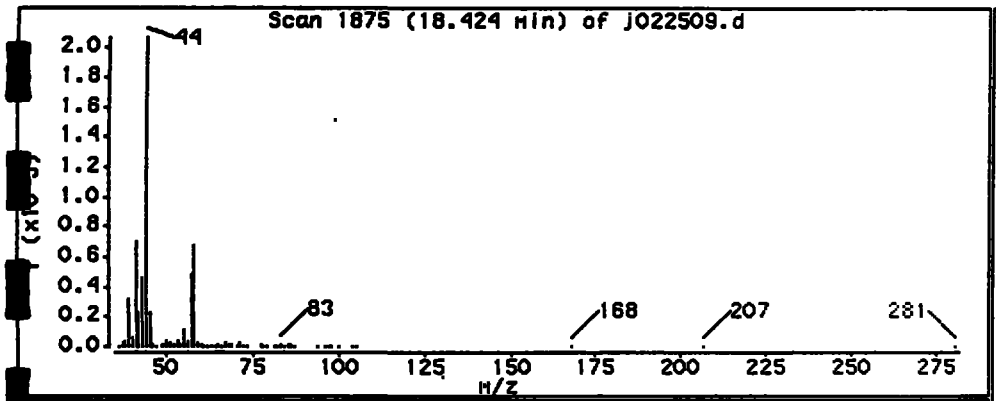
Sample Info: 500mL Can#13853

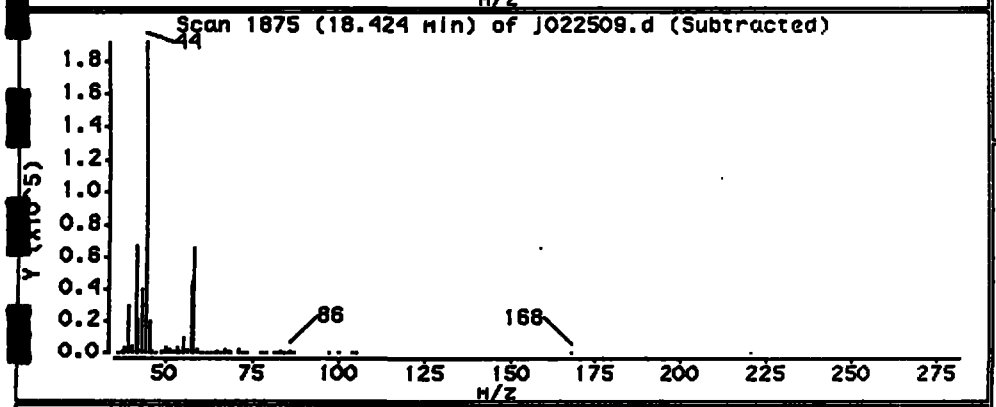
Operator: MH

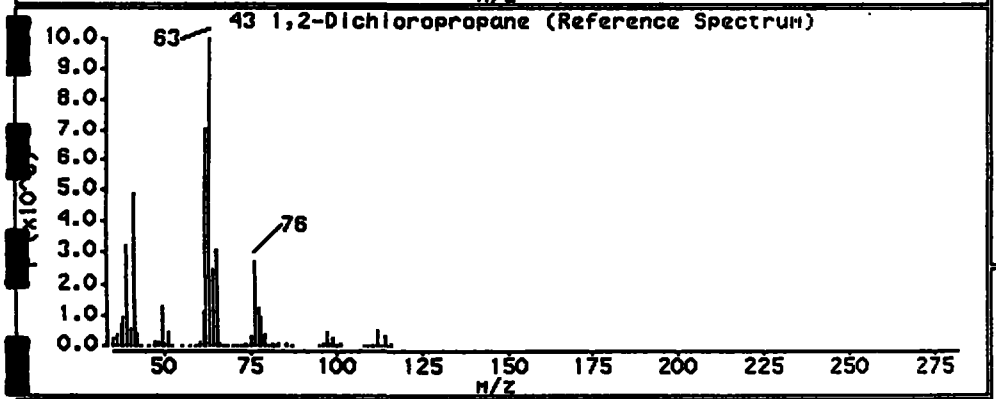
Column phase: RTx-624

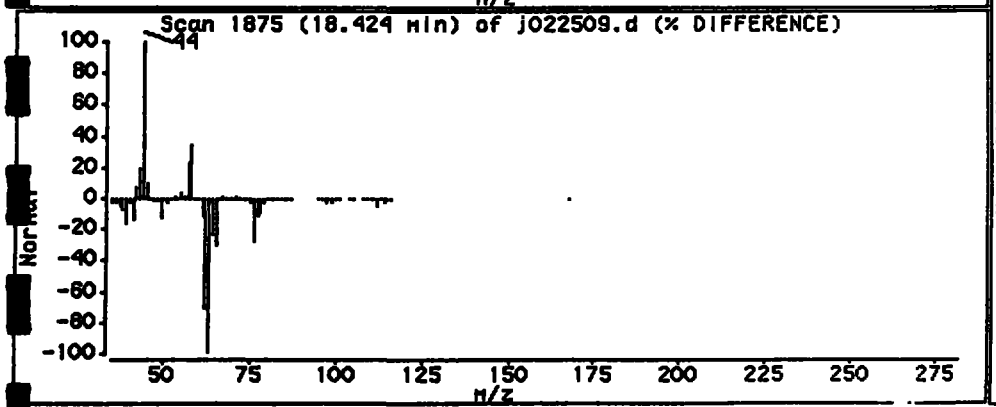
Column diameter: 0.58

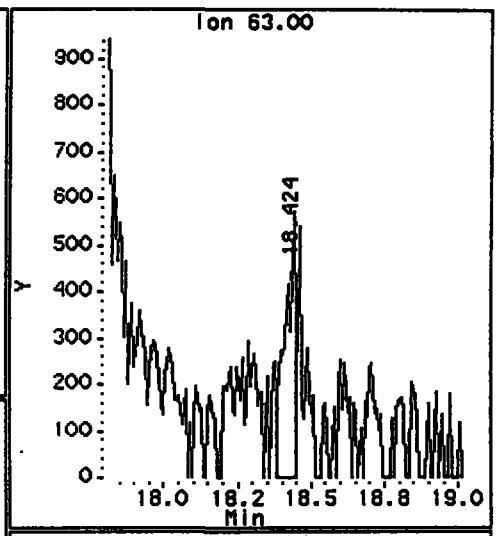
43 1,2-Dichloropropane

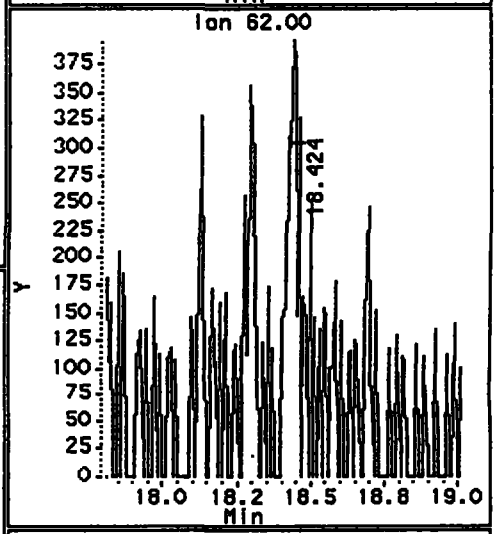


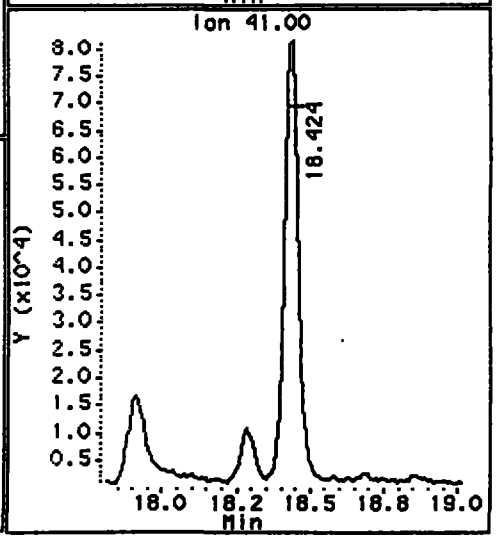












Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

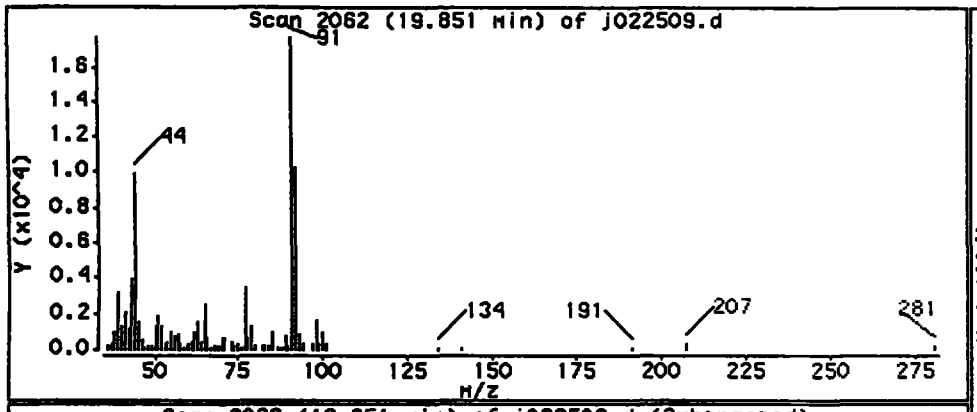
Sample Info: 500mL Can#13853

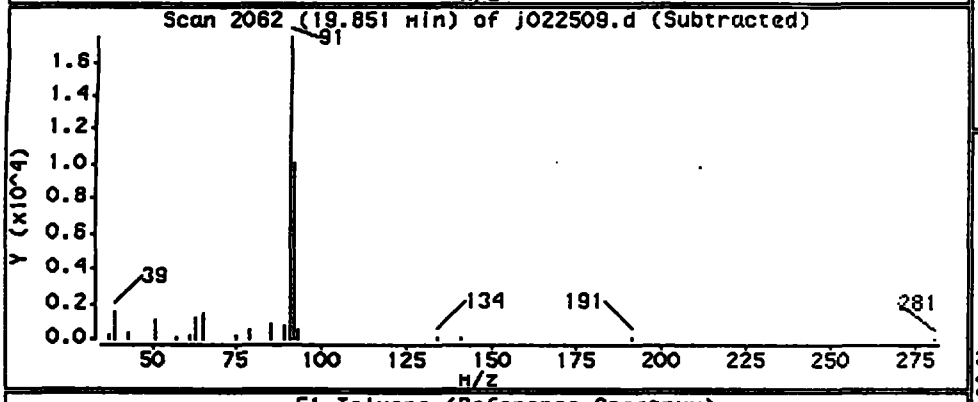
Operator: MH

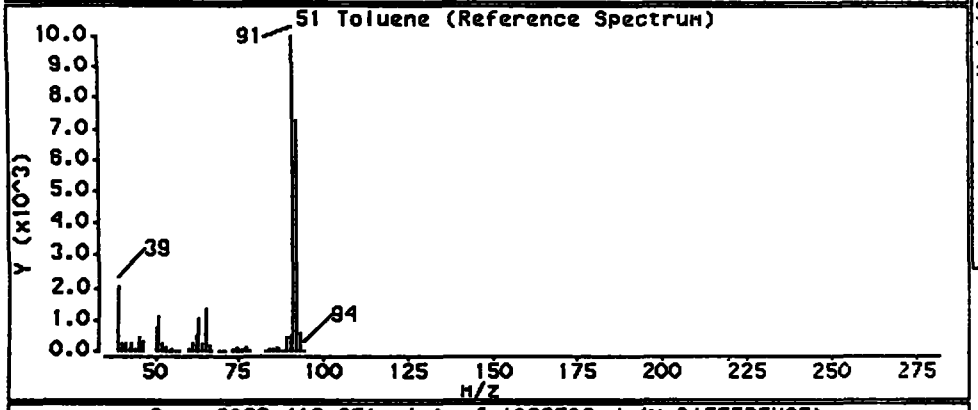
Column phase: RTx-624

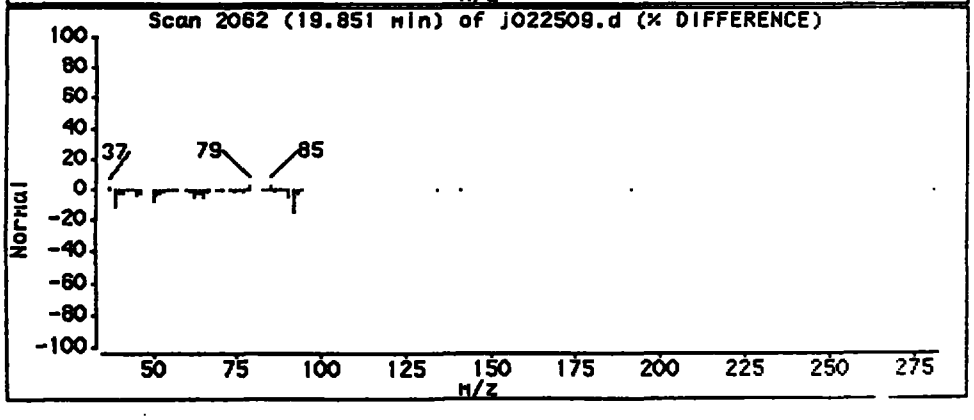
Column diameter: 0.58

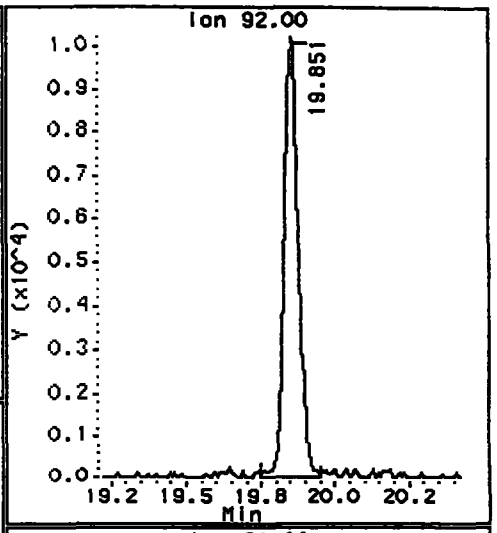
51 Toluene

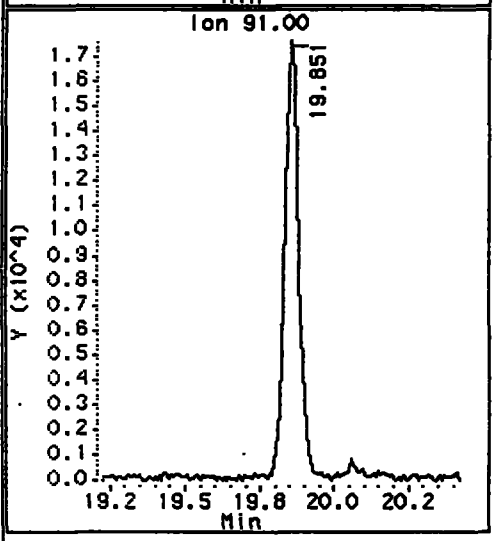












Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

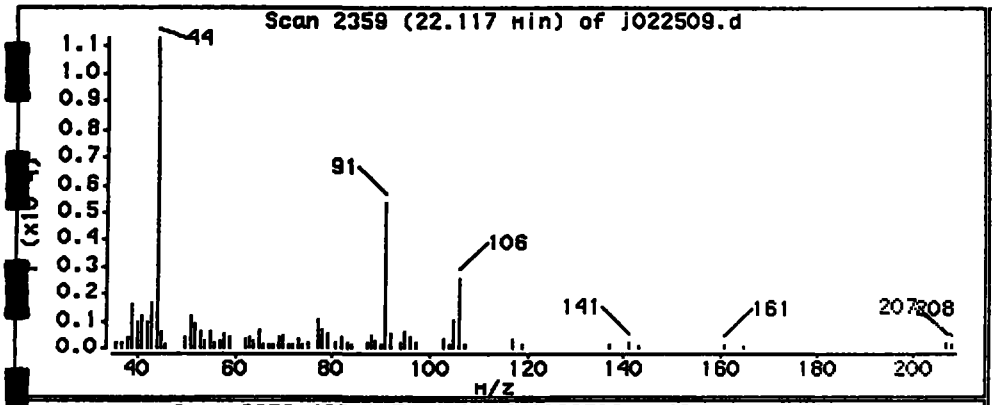
Sample Info: 500mL Can#13853

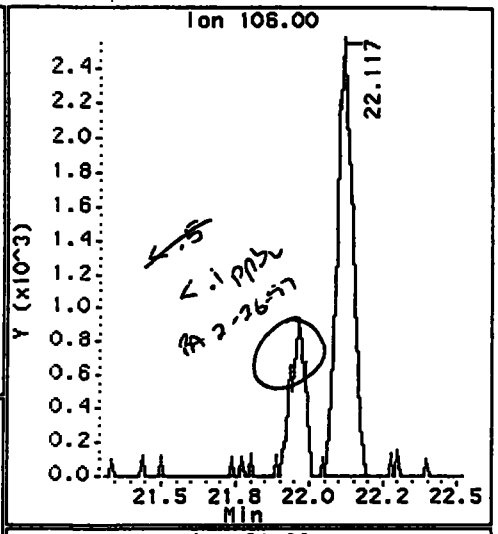
Operator: MH

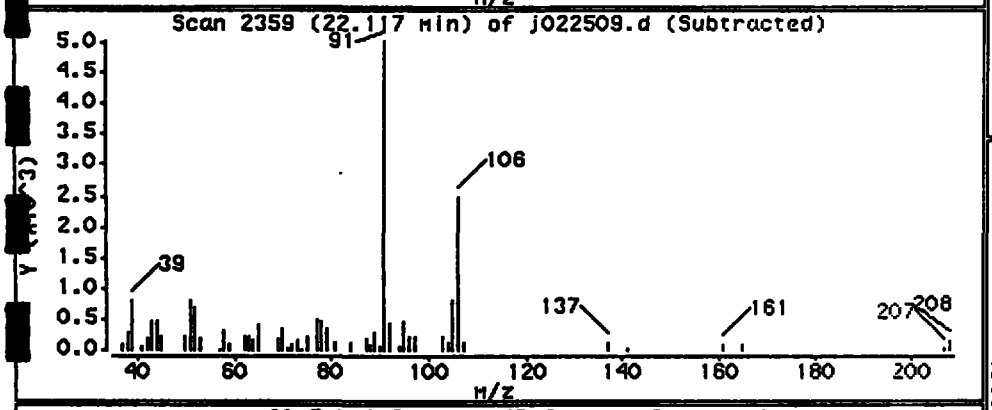
Column phase: RTx-624

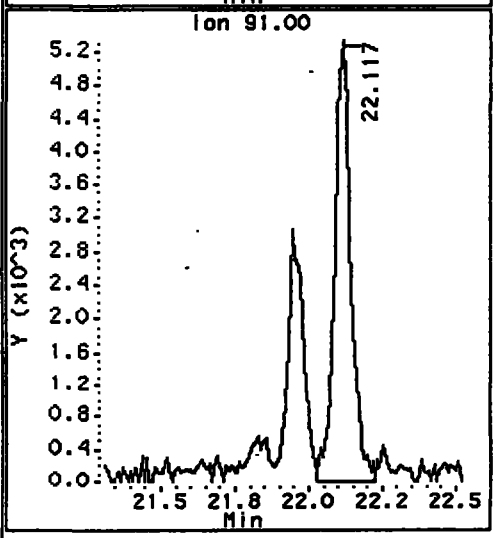
Column diameter: 0.58

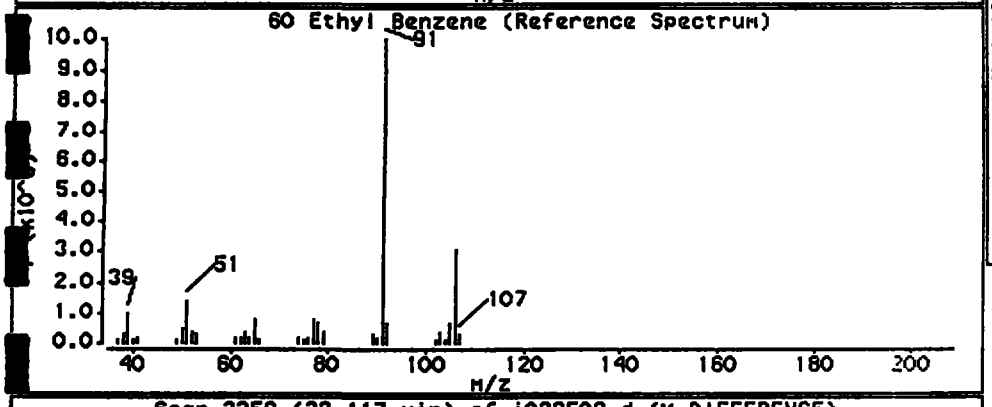
60 Ethyl Benzene

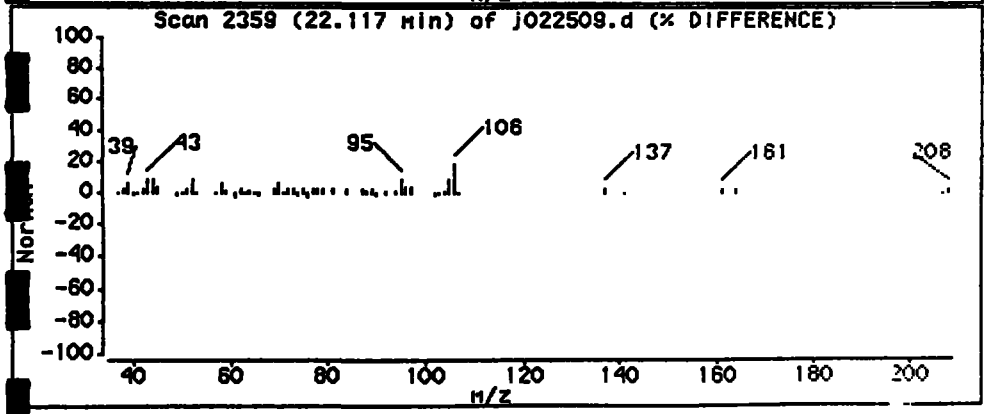












Data File: /chem/msdj.i/j-25feb.b/j022509.d

Page 19

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

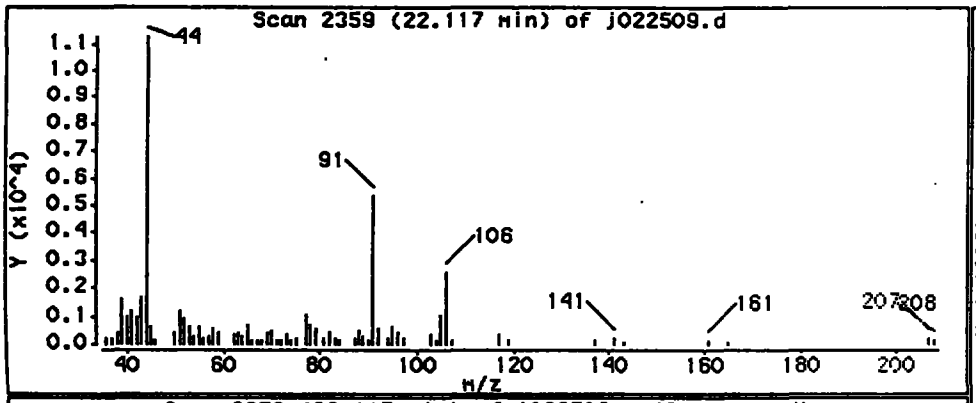
Sample Info: 500mL Can#13853

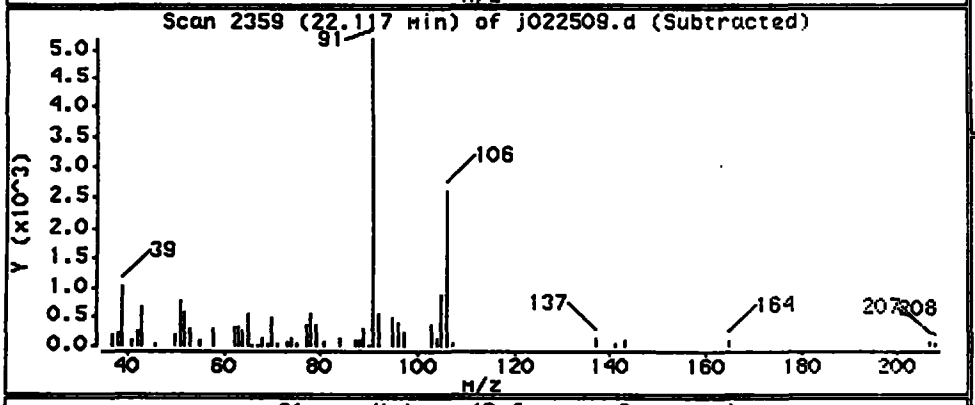
Operator: MH

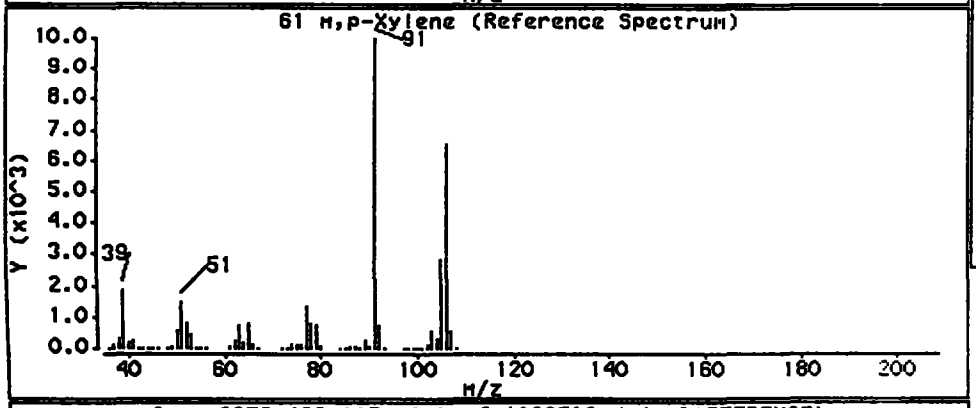
Column phase: RTx-624

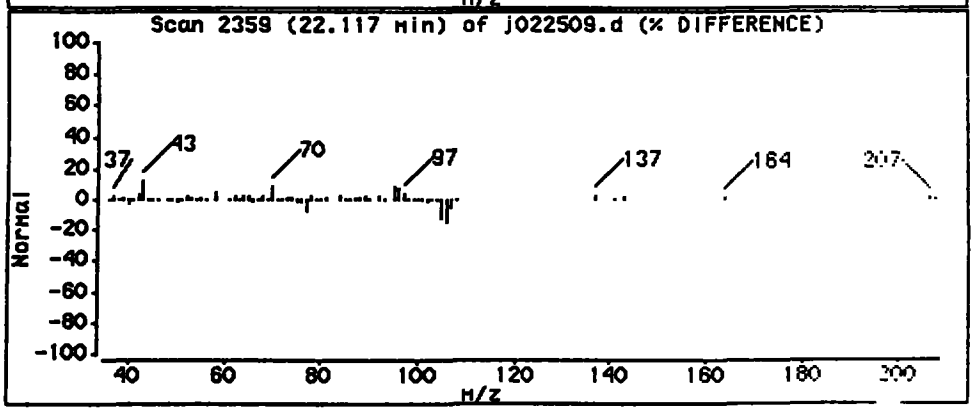
Column diameter: 0.58

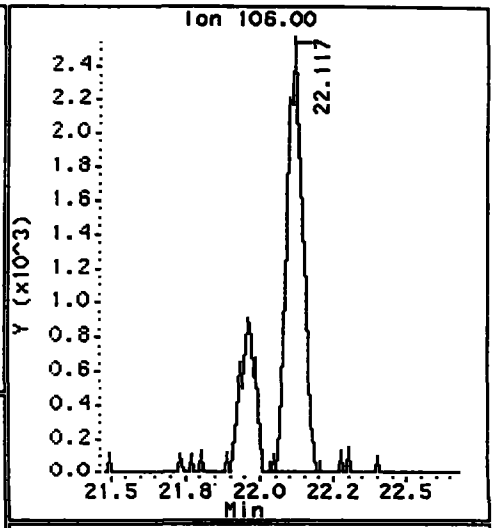
61 m,p-Xylene

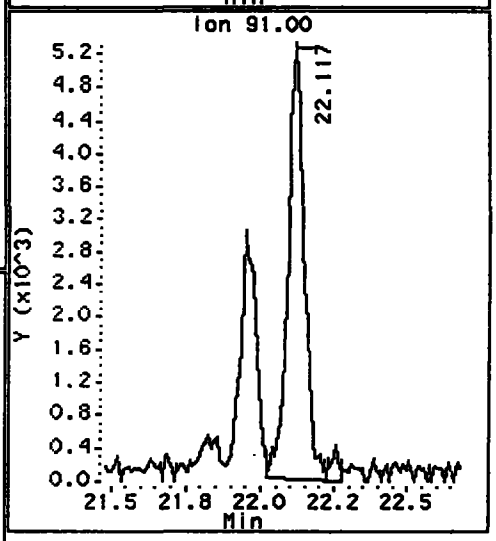












Data File: /chem/msdj.i/j-25feb.b/j022509.d

Date : 25-FEB-1997 15:05

Client ID: 021597U1

Instrument: msdj.i

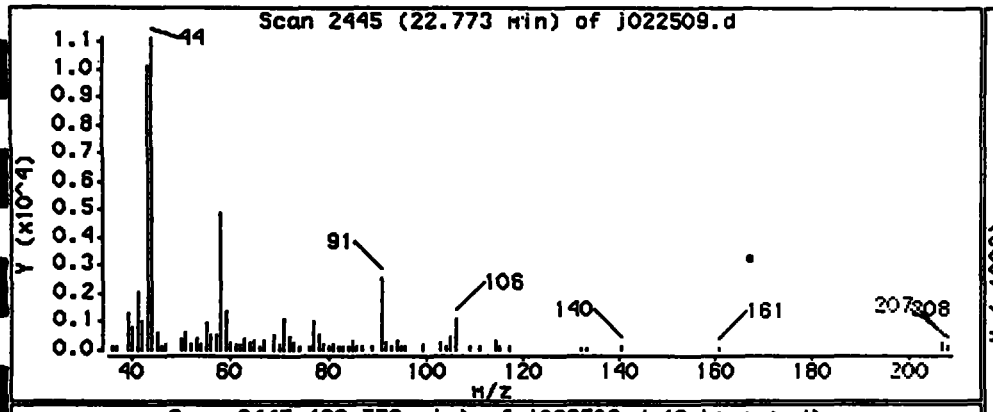
Sample Info: 500mL Can#13853

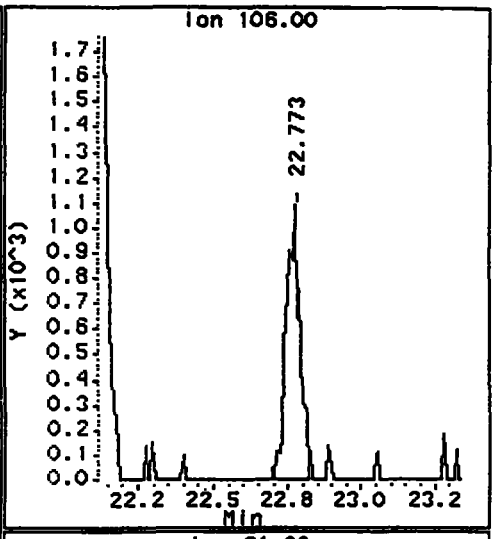
Operator: MH

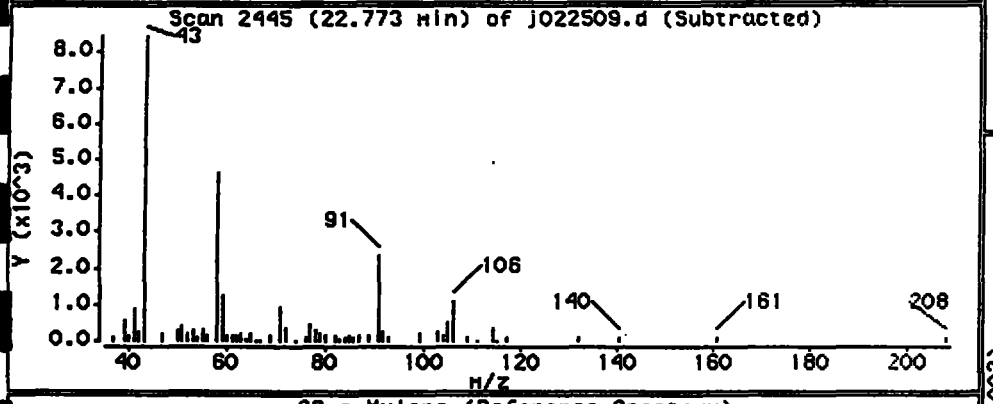
Column phase: RTx-624

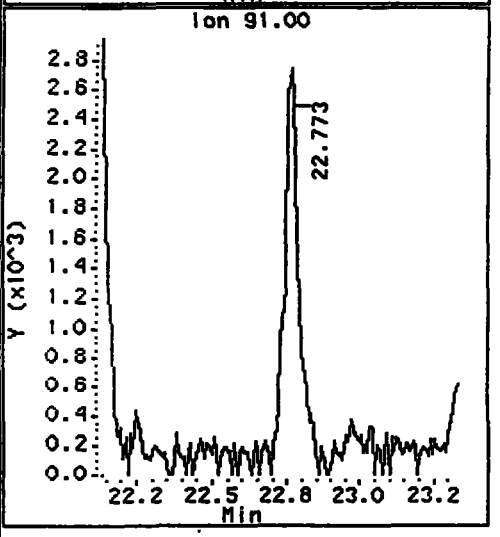
Column diameter: 0.58

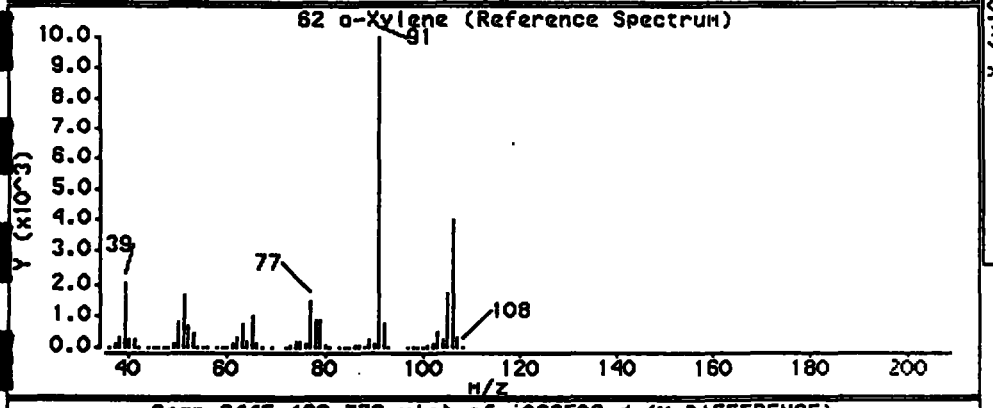
62 o-Xylene

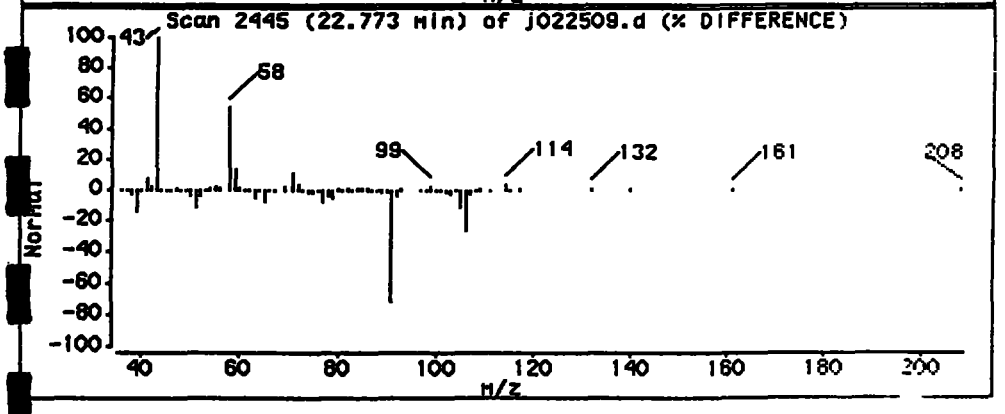






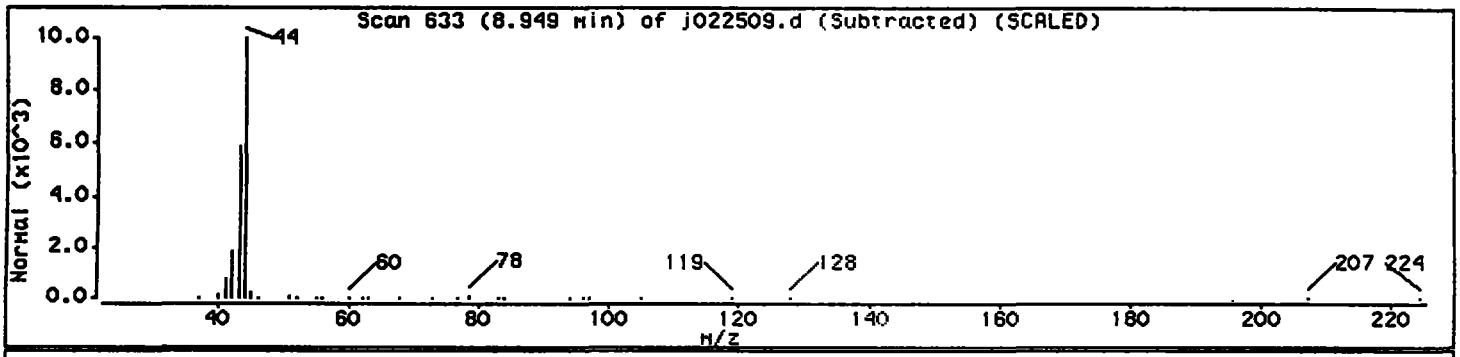




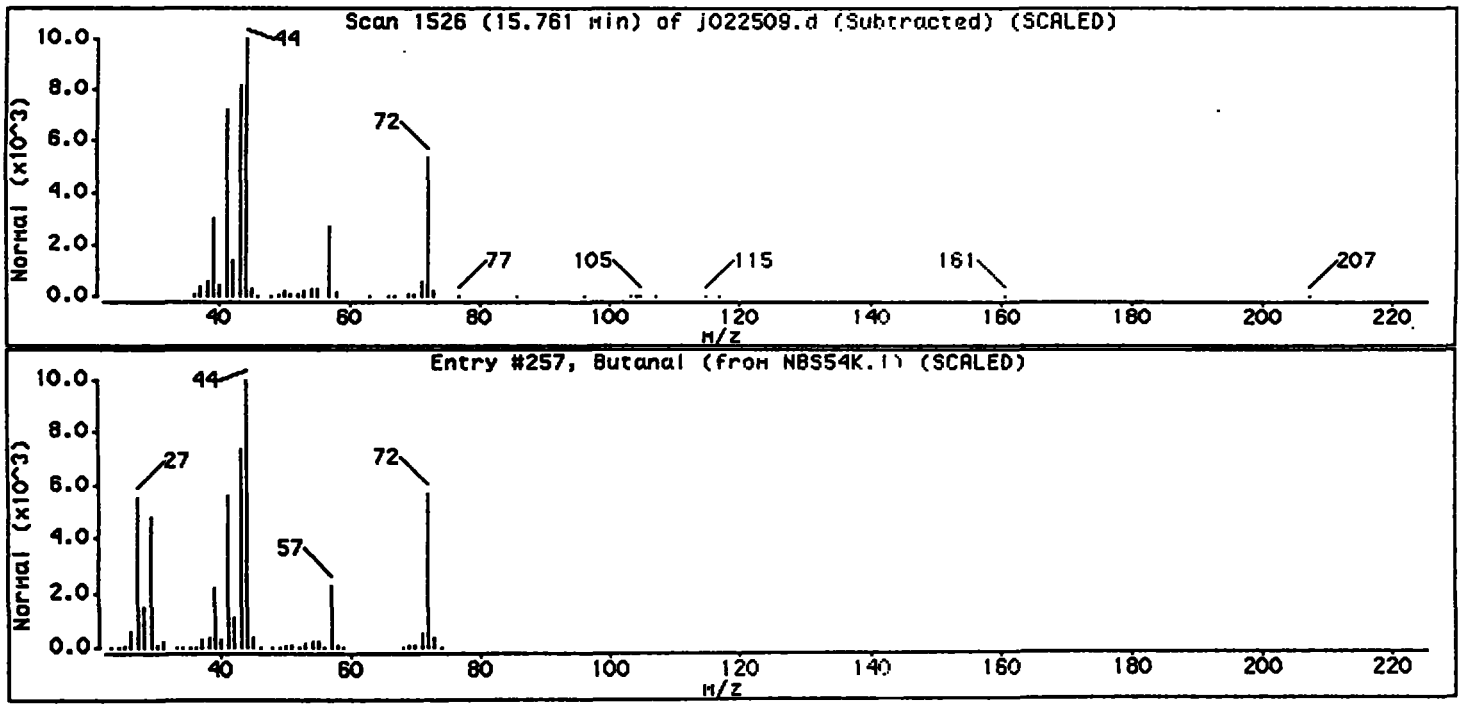


Data File: /chem/msdj.i/j-25feb.b/j022509.d
Date : 25-FEB-1997 15:05
Instrument: msdj.i
Client ID: 021597U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

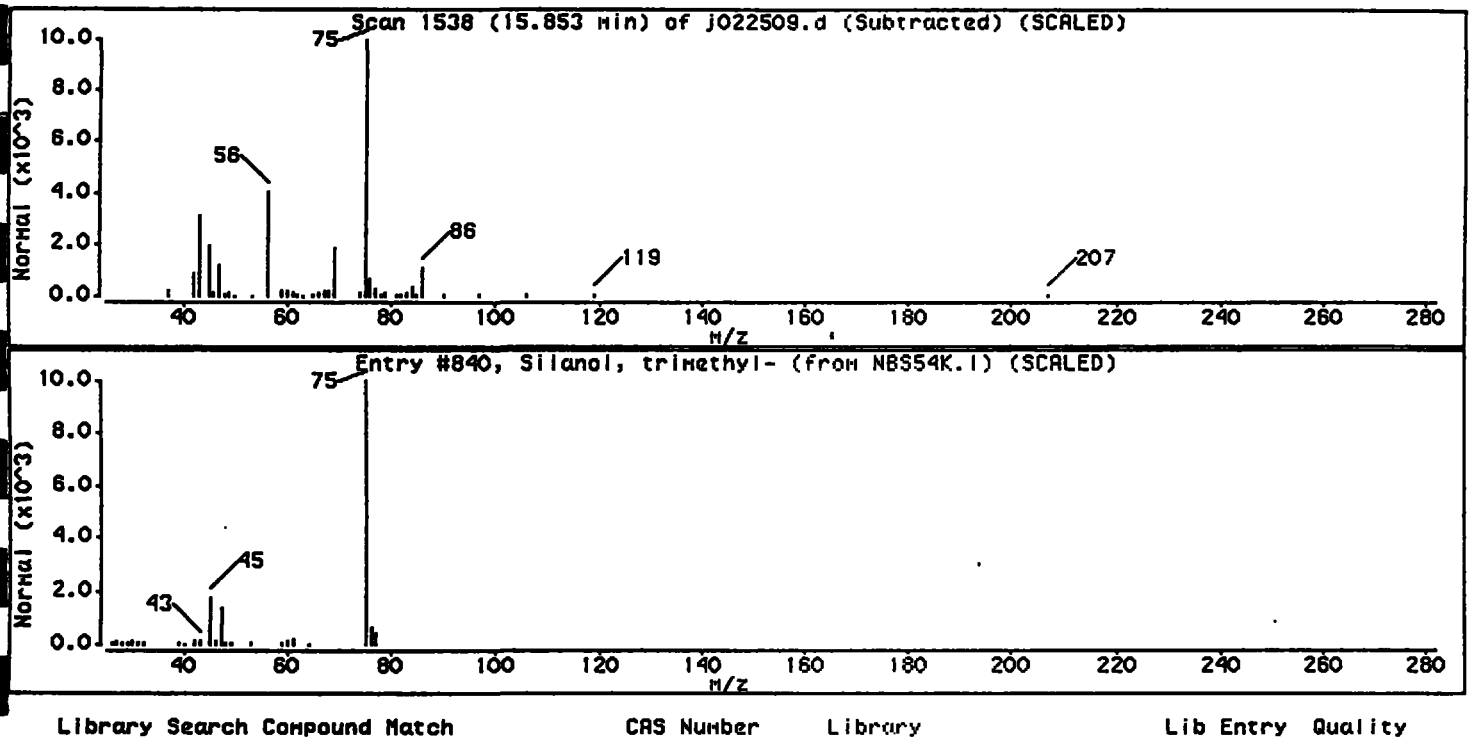


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanal	123-72-8	NBS54K.I	257	91



Data File: /chem/msdj.i/j-25feb.b/j022509.d
Date : 25-FEB-1997 15:05
Instrument: msdj.i
Client ID: 021597U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Silanol, trimethyl-	1066-40-6	NBS54K.I	840	50



Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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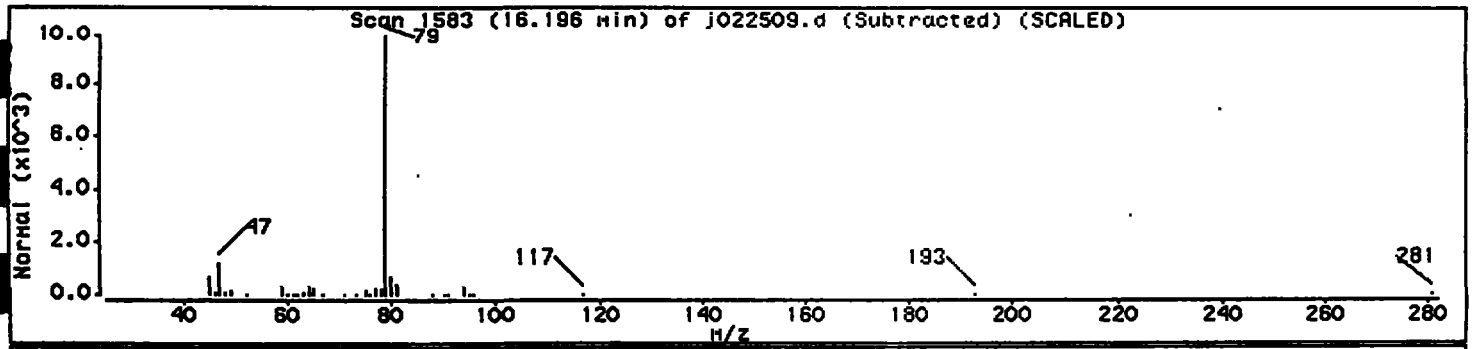
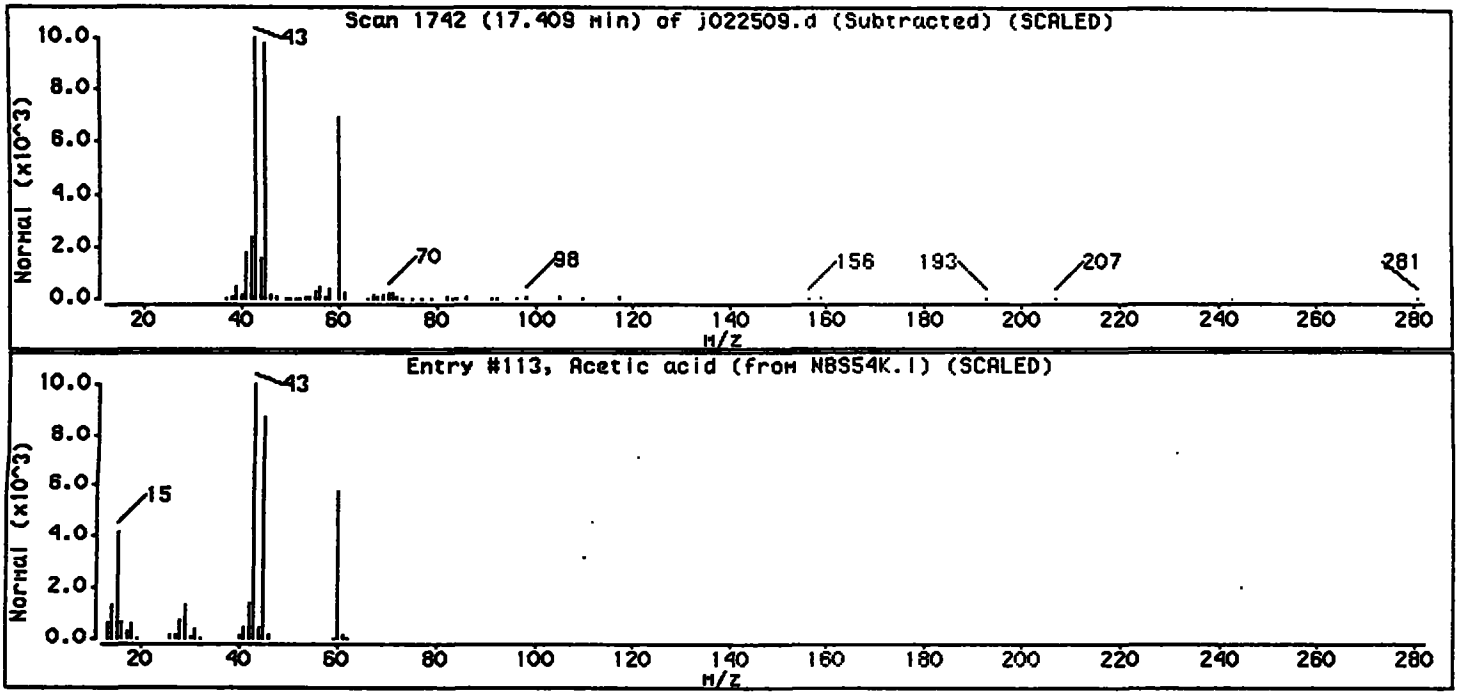


Data File: /chem/msdj.i/j-25feb.b/j022509.d
Date : 25-FEB-1997 15:05
Instrument: msdj.i
Client ID: 021597U1
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetic acid	64-19-7	NBS54K.I	113	80



Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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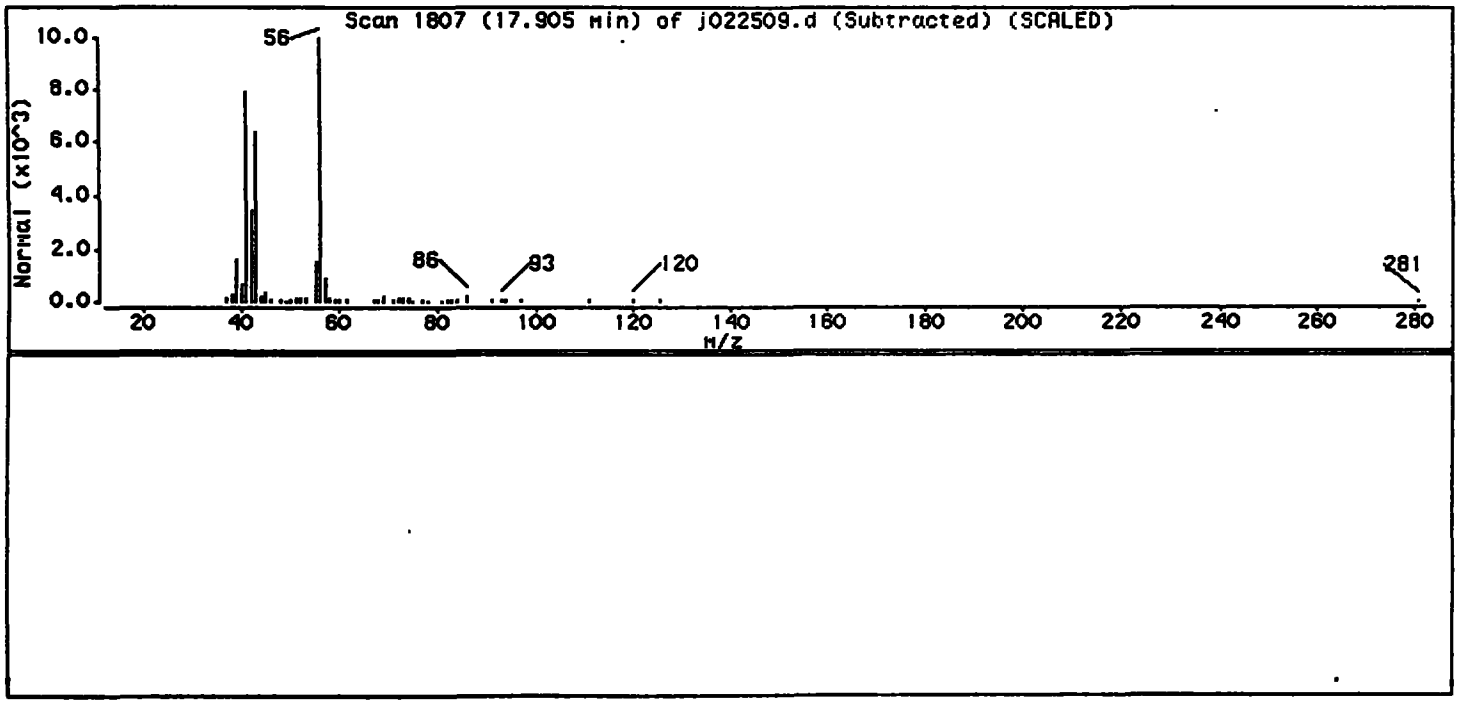
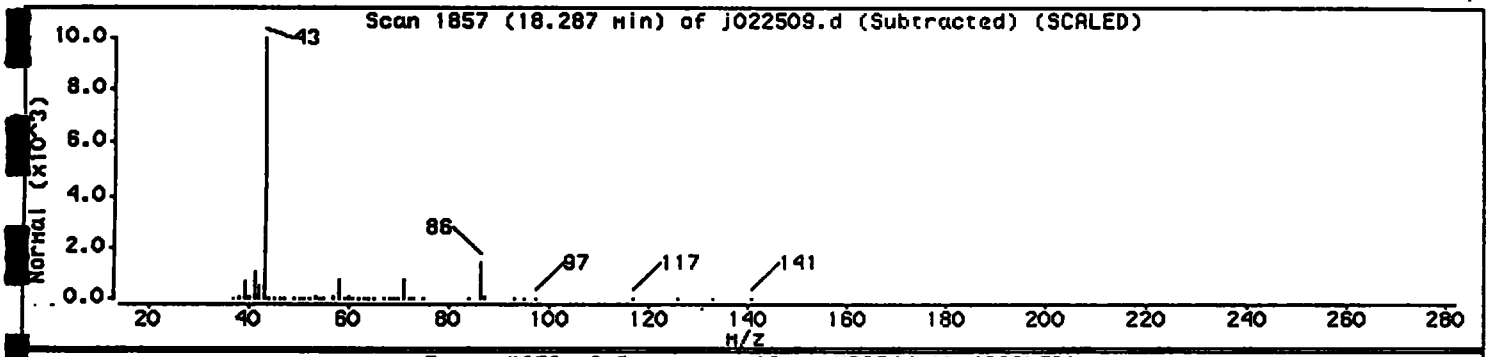
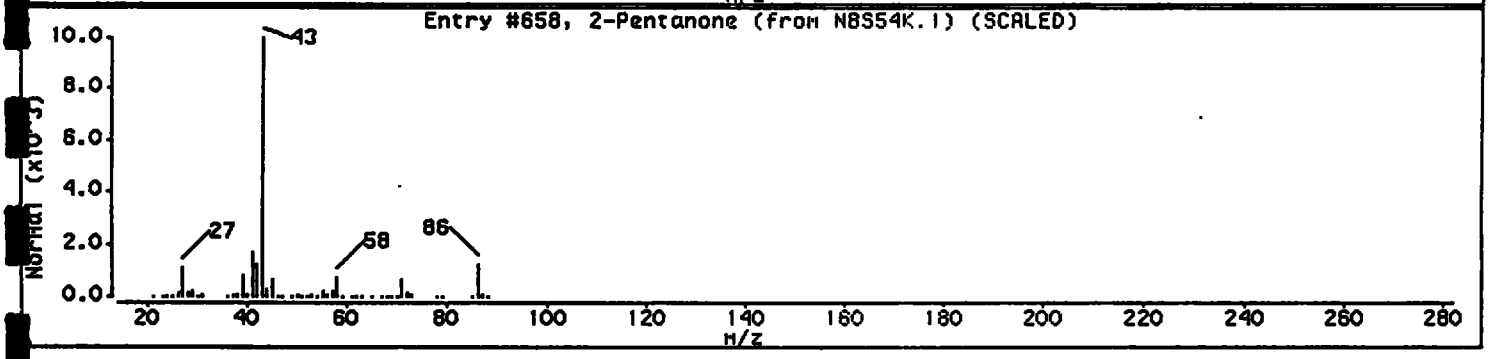


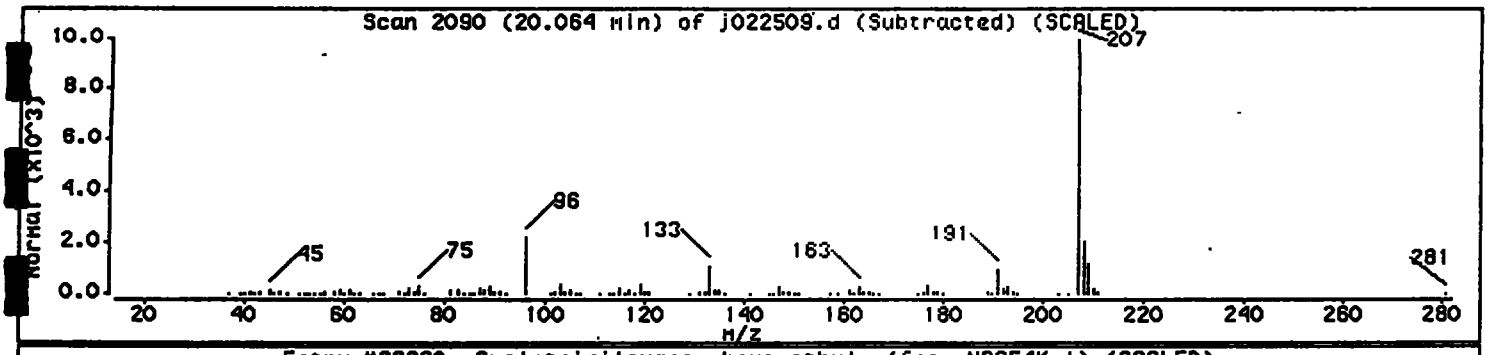
Data File: /chem/nsdj.i/j-25feb.b/j022509.d
Date : 25-FEB-1997 15:05
Instrument: nsdj.i
Client ID: 021597U1
Column phase: RTx-624
Column diameter: 0.58

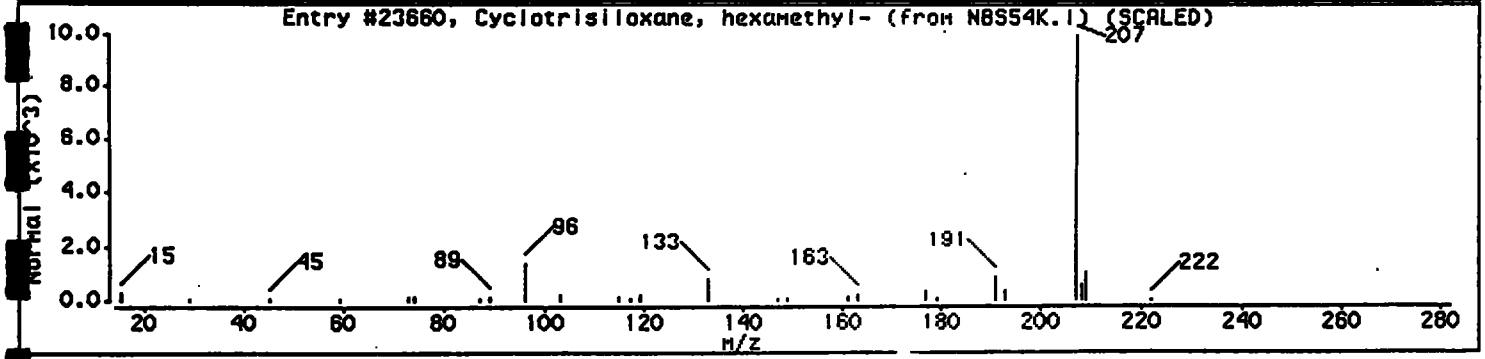
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
2-Pentanone	107-87-9	NBS54K.I	658	64





Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS54K.I	23660	56

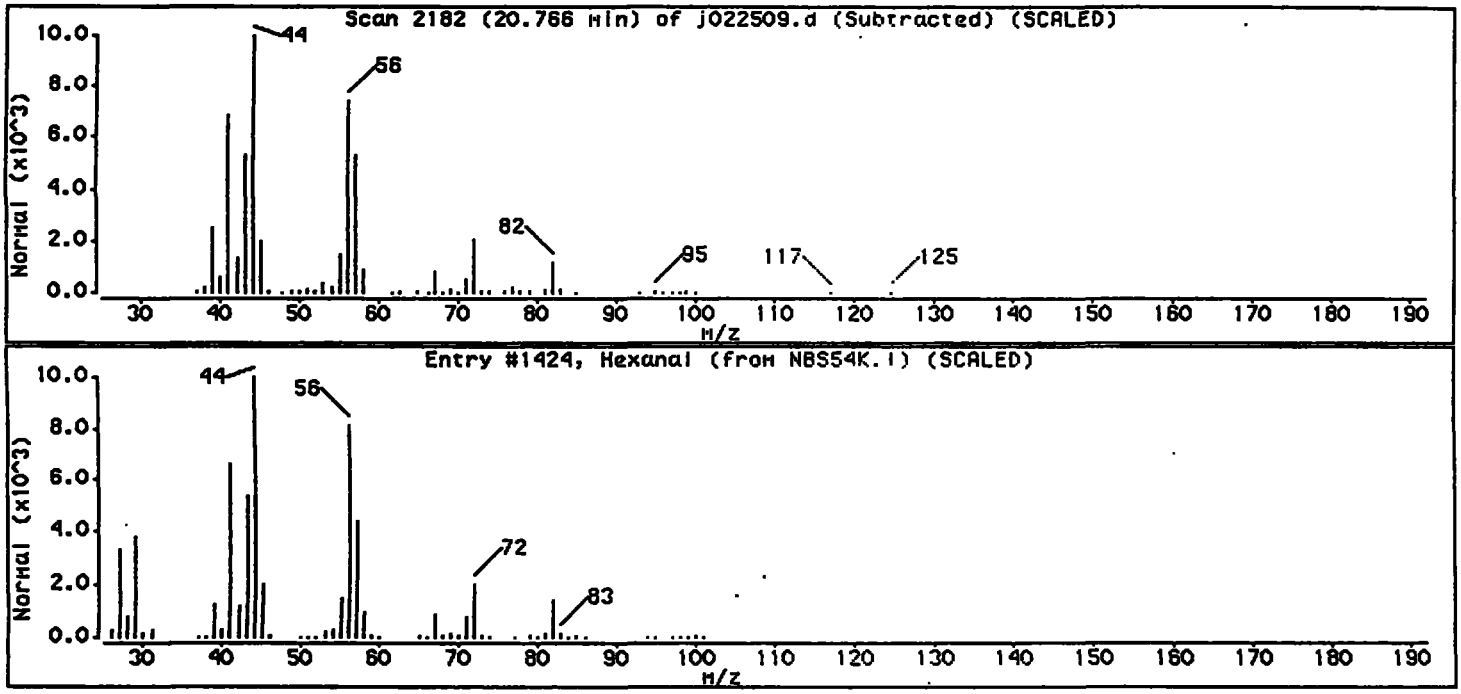




Data File: /chem/msdj.i/j-25feb.b/j022509.d
Date : 25-FEB-1997 15:05
Instrument: msdj.i
Client ID: 021597U1
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexanal	66-25-1	NBS54K.I	1424	90



Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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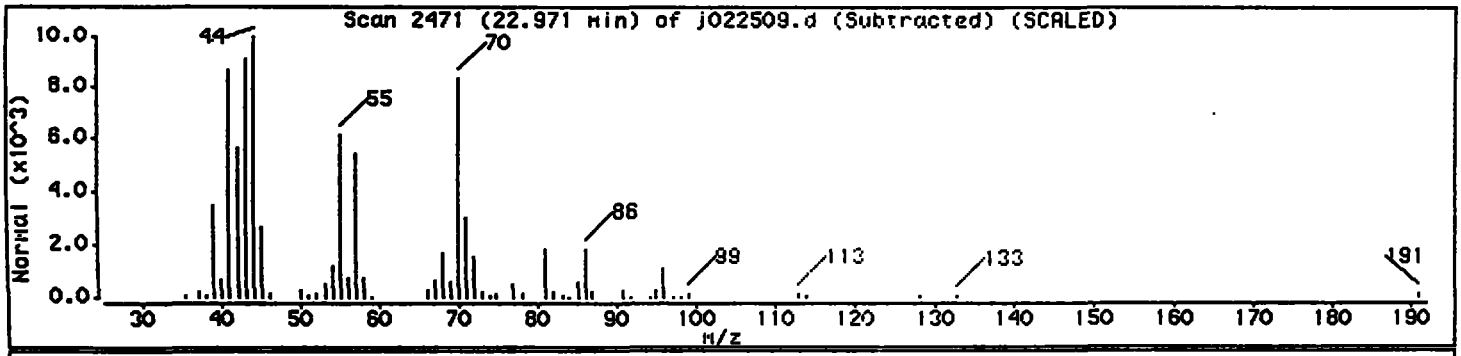
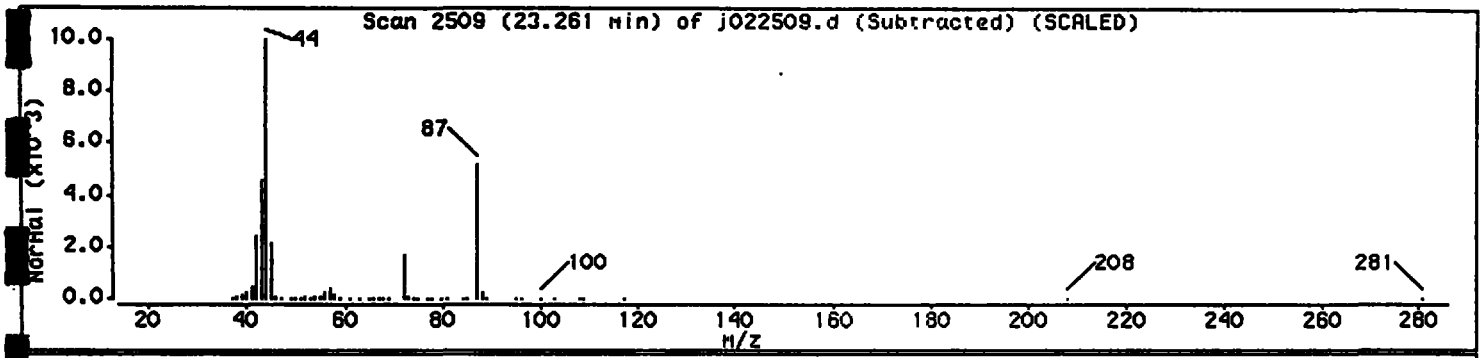
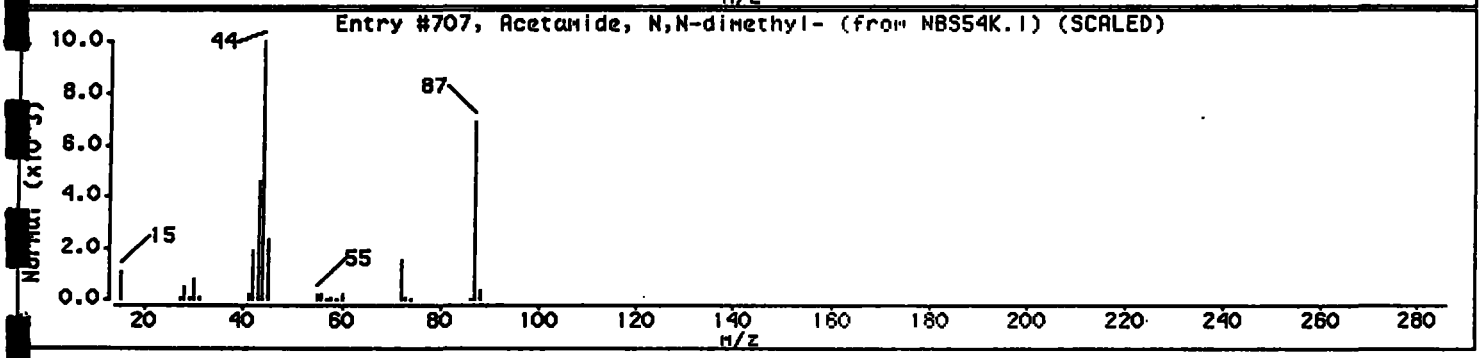


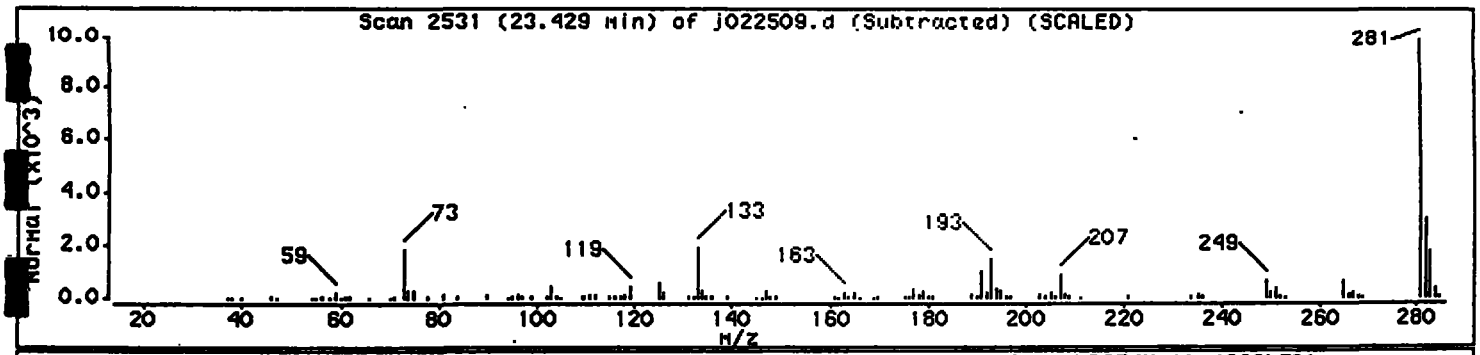
Data File: /chem/nsdj.i/j-25feb.b/j022509.d
Date : 25-FEB-1997 15:05
Instrument: nsdj.i
Client ID: 021597U1
Column phase: RTx-624 Column diameter: 0.58

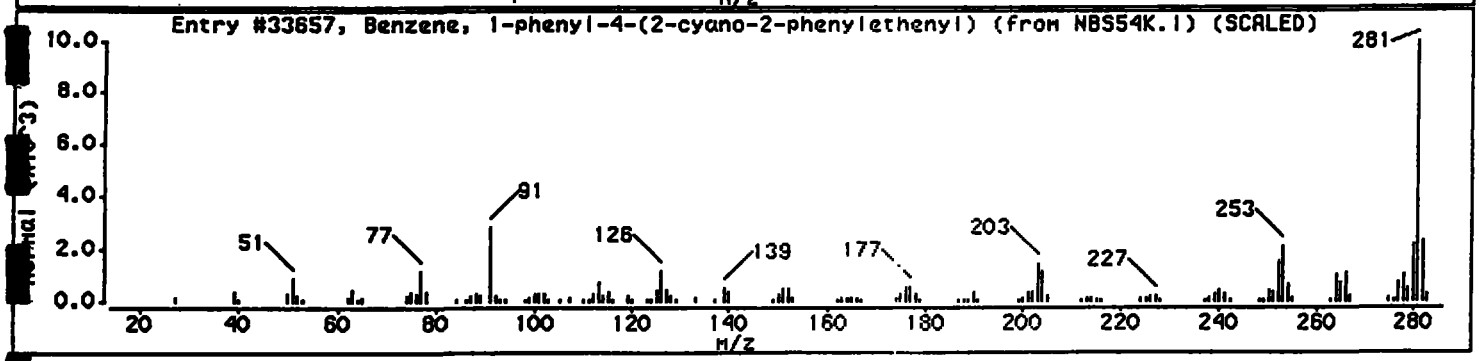
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetamide, N,N-dimethyl-	127-19-5	NBS54K.I	707	86





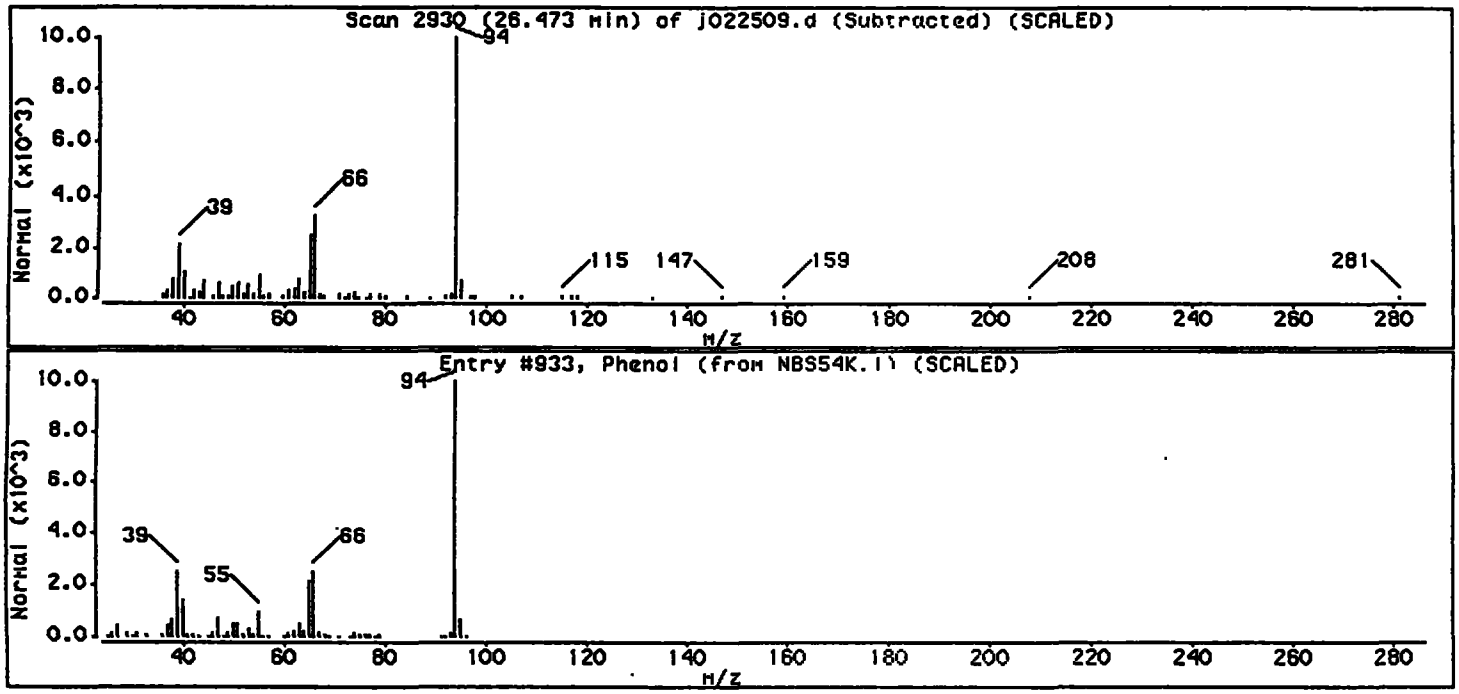
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-phenyl-4-(2-cyano-2-phenyleth	27869-58-3	NBS54K.I	33657	53





Data File: /chem/msdj.i/j-25feb.b/j022509.d
Date : 25-FEB-1997 15:05
Instrument: msdj.i
Client ID: 021597U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Phenol	108-95-2	NBS54K.I	933	91



Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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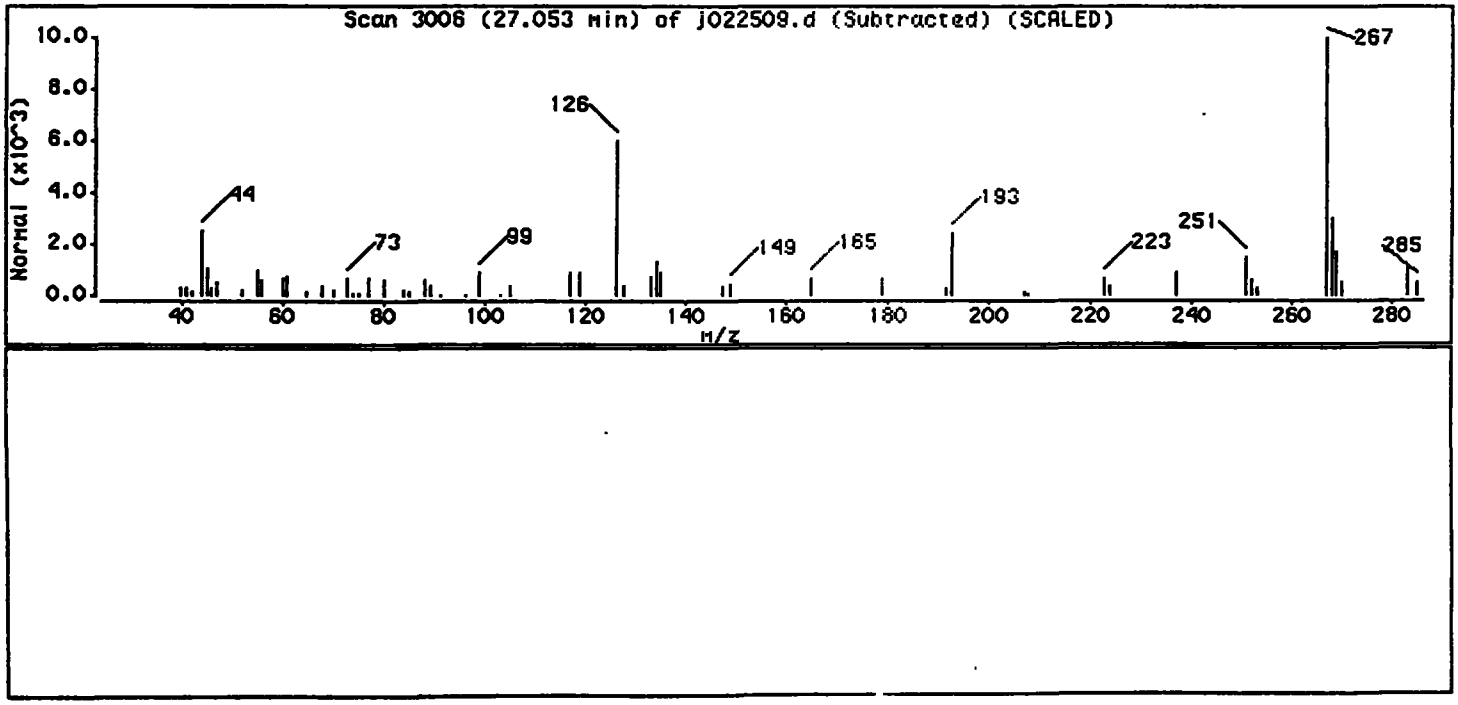

Data File: /chem/msdj.i/j-25feb.b/j022509.d
Date : 25-FEB-1997 15:05
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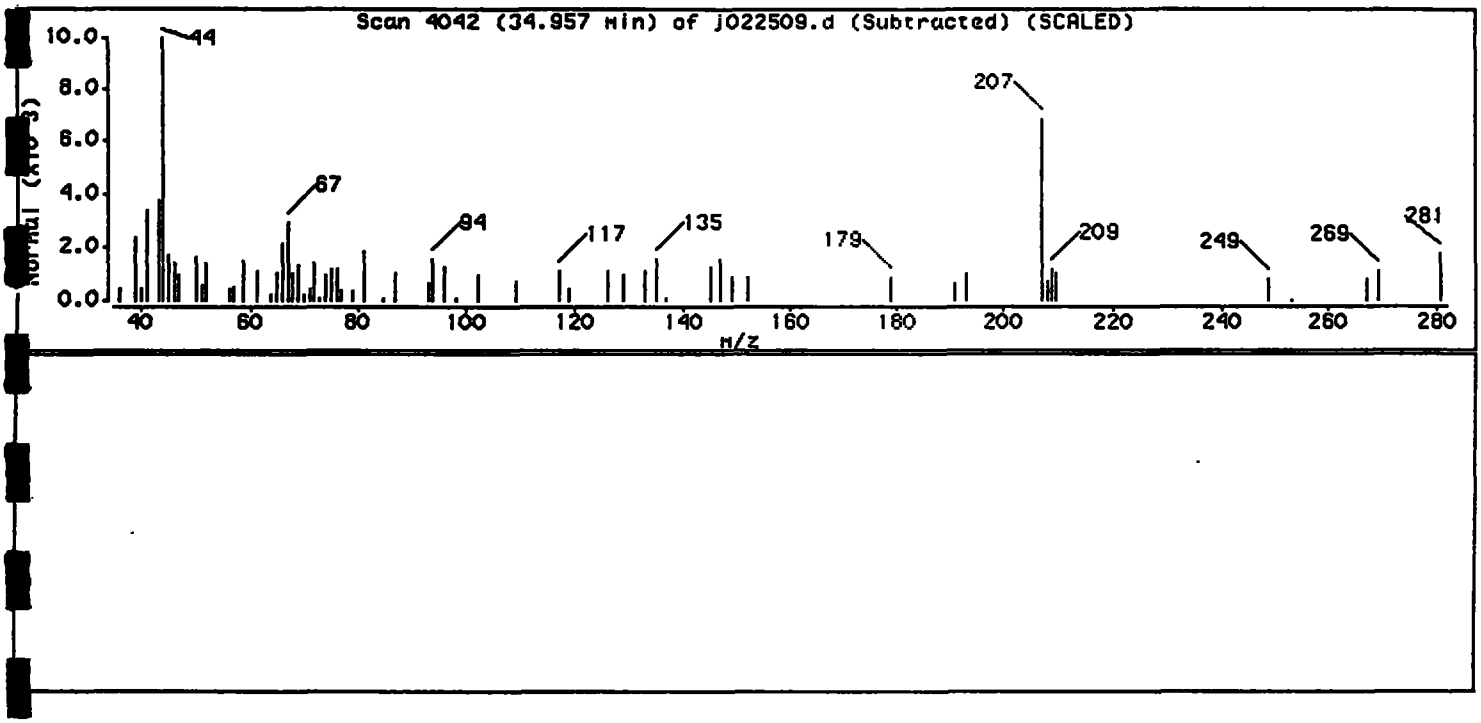
Client ID: 021597U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



AIR TOXICS LTD.

SAMPLE NAME: 021597D1

ID#: 9702139-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	022510	Date of Collection:	2/15/97
Dil. Factor:	1.58	Date of Analysis:	2/25/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.79	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected
Benzene	0.16	0.57
1,2-Dichloroethane	0.16	Not Detected
Trichloroethene	0.16	Not Detected
1,2-Dichloropropane	0.16	Not Detected
Toluene	0.16	0.51
Tetrachloroethene	0.16	Not Detected
Chlorobenzene	0.16	Not Detected
Ethyl Benzene	0.16	Not Detected
m,p-Xylene	0.16	Not Detected
o-Xylene	0.16	Not Detected
Styrene	0.16	Not Detected
Acetone	0.79	8.1
Carbon Disulfide	0.79	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.79	2.0

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	108	70-130
Toluene-d8	110	70-130
4-Bromofluorobenzene	110	70-130

Data File: /chem/msdj.i/j-25feb.b/j022510.d
Report Date: 26-Feb-1997 09:07

MH 3/10/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-25feb.b/j022510.d
Lab Smp Id: 9702139-02A Client Smp ID: 021597D1
Inj Date : 25-FEB-1997 15:48
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#12004
Misc Info : 4.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 15:32 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.580
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

REVIEWED BY
FEB 26 1997
FRANCISCO AYALA

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
	30 Bromochloromethane					CAS #: 74-97-5			
	16.417	16.358 (1.000)	130	194483	5.0			100.00	9153
	16.417	16.358 (0.000)	128	44912			28.11- 128.11	23.09	
	16.417	16.358 (0.000)	49	111872			130.70- 230.70	57.52	
$	35 Octafluorotoluene					CAS #: 434-64-0			
	16.928	16.892 (1.031)	217	489319	5.4	5.4		100.00	8060
	16.928	16.892 (0.000)	186	102920			13.05- 113.05	21.03	
*	40 1,4-Difluorobenzene					CAS #: 540-36-3			
	17.745	17.700 (1.000)	114	869236	5.0			100.00	9279
	17.745	17.700 (0.000)	88	50240			0.00- 68.37	5.78	
	49 Toluene-d8					CAS #: 2037-26-5			
	19.766	19.730 (1.114)	98	869494	5.5	5.5		100.00	9966
	19.766	19.730 (0.000)	70	33099			0.00- .63.02	3.81	
	19.766	19.730 (0.000)	100	163648			15.19- 115.19	18.82	
	58 Chlorobenzene-d5					CAS #: 3114-55-4			
	21.826	21.790 (1.000)	117	830269	5.0			100.00	9876
	21.826	21.790 (0.000)	82	138432			10.83- 110.83	16.67	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 65 Bromofluorobenzene					CAS #: 460-00-4			
23.665	23.621 (1.084)	95	708951	5.5	5.5		100.00	8084
23.665	23.621 (0.000)	174	98640			7.77- 107.77	13.91	
23.665	23.621 (0.000)	176	91744			7.57- 107.57	12.94	
16 Acetone					CAS #: 67-64-1			
13.198	13.092 (0.804)	43	395856	5.1	8.1		100.00	
13.198	13.092 (0.804)	58	117973			0.00- 79.57	29.80	
28 2-Butanone					CAS #: 78-93-3			
16.059	15.991 (0.978)	72	27815	1.3	2.0		100.00	7730(Q)
16.059	15.991 (0.000)	43	33419			439.21- 539.21	120.15	
16.059	15.991 (0.000)	57	2662			0.00- 83.45	9.57	
37 Benzene					CAS #: 71-43-2			
17.294	17.250 (0.975)	78	60308	0.36	0.57		100.00	9446
17.294	17.250 (0.000)	77	3998			0.00- 74.19	6.63	
51 Toluene					CAS #: 108-88-3			
19.858	19.821 (1.119)	92	32232	0.32	0.51		100.00	7851
19.858	19.821 (0.000)	91	13780			116.37- 216.37	42.75	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

MH 2/26/97

Audit History For: /chem/msdj.i/j-25feb.b/j022510.d

Change Date: 25-Feb-97 16:14
Change Made by: Automation

Parameter: ChemLan Data Transfer
Old Value:
New Value:
Reason For Change: MS Data from Instrument: msdj.i

Change Date: 25-Feb-97 16:15
Change Made by: Automation

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Complete Target Compound Processing

Change Date: 25-Feb-97 16:55
Change Made by: mhe

Parameter: date
Old Value: 25-FEB-97 15:48
New Value: 25-FEB-1997 15:48
Reason For Change: N/A

Change Date: 25-Feb-97 16:55
Change Made by: mhe

Parameter: Misc Information
Old Value:
New Value: 4.5"Hg-5.0psi Parsons
Reason For Change: N/A

Change Date: 25-Feb-97 16:55
Change Made by: mhe

Parameter: Compound Sublist
Old Value: AT.sub
New Value: Parsons.sub
Reason For Change: N/A

Change Date: 25-Feb-97 16:55
Change Made by: mhe

Parameter: Sample Info
Old Value: 9702139-02A 500mL Can#12004 4.5"-5psi Parsons 021597D1
New Value: 500mL Can#12004
Reason For Change: N/A

Change Date: 25-Feb-97 16:55
Change Made by: mhe

Parameter: Lab ID
Old Value:
New Value: 9702139-02A
Reason For Change: N/A

Change Date: 25-Feb-97 16:55
Change Made by: mhe

Parameter: Client ID
Old Value: VSTD150
New Value: 021597D1
Reason For Change: N/A

Change Date: 25-Feb-97 16:55
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Best Hit for Carbon Disulfide changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Best Hit for Methylene Chloride changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Best Hit for 1,1,1-Trichlorethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:

Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Best Hit for 1,1,1-Trichlorethane changed
Old Value: Compound Undetected
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #2
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Best Hit for Trichloroethene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Manual reintegration of Trichloroethene (Signal 1)
Old Value: No previous peak at 18.149
New Value: New Area/Time: 1406 / 18.15
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Best Hit for Trichloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:05
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Manual reintegration of Tetrachloroethene (Signal 1)
Old Value: No previous peak at 20.636
New Value: New Area/Time: 936 / 20.64
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Manual reintegration of Ethyl Benzene (Signal 1)
Old Value: Old Area/Time: 8178 / 22.12
New Value: New Area/Time: 3169 / 21.95
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Best Hit for Ethyl Benzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:

Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Best Hit for m,p-Xylene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Best Hit for o-Xylene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Best Hit for Styrene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Manual reintegration of Styrene (Signal 1,
Old Value: No previous peak at 22.780
New Value: New Area/Time: 818 / 22.78
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Best Hit for Styrene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Best Match for Unknown compound at 5.599 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:06
Change Made by: mhe

Parameter: Best Match for Unknown compound at 16.203 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:07
Change Made by: mhe

Parameter: Best Match for Unknown compound at 20.064 min. changed.
Old Value: Old match: Cyclotrisiloxane, hexamethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:07
Change Made by: mhe

Parameter: Best Match for Unknown compound at 23.268 min. changed.
Old Value: Old match: Acetamide, N,N-dimethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:07
Change Made by: mhe

Parameter: Best Match for Unknown compound at 23.436 min. changed.
Old Value: Old match: Cyclotetrasiloxane, octamethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:07
Change Made by: mhe

Parameter: Best Match for Unknown compound at 34.681 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:07
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m

Reason For Change: Quantitation

MH 3/26/97

Data File: /chem/msdj.i/j-25feb.b/j022510.d
Report Date: 25-Feb-1997 16:55

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-25feb.b/j022510.d
Lab Smp Id: 9702139-02A Client Smp ID: 021597D1
Inj Date : 25-FEB-1997 15:48
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#12004
Misc Info : 4.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 15:32 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.580
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.417	16.358 (1.000)	130	194483	5.0			100.00	9153
16.417	16.358 (0.000)	128	44912			28.11- 128.11	23.09	
16.417	16.358 (0.000)	49	111872			130.70- 230.70	57.52	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.928	16.892 (1.031)	217	489319	5.4	5.4		100.00	8060
16.928	16.892 (0.000)	186	102920			13.05- 113.05	21.03	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.745	17.700 (1.000)	114	869236	5.0			100.00	9279
17.745	17.700 (0.000)	88	50240			0.00- 68.37	5.78	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.766	19.730 (1.114)	98	869494	5.5	5.5		100.00	9966
19.766	19.730 (0.000)	70	33099			0.00- 63.02	3.81	
19.766	19.730 (0.000)	100	163648			15.19- 115.19	18.82	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.826	21.790 (1.000)	117	830269	5.0			100.00	9876
21.826	21.790 (0.000)	82	138432			10.83- 110.83	16.67	
21.430	21.790 (1.000)	117	186	5.0			100.00	7093(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
58 Chlorobenzene-d5 (continued)								
21.430	21.790 (0.000)	82	7			10.83- 110.83	3.76	
22.276	21.790 (1.000)	117	1114	5.0			100.00	3980(Q)
22.276	21.790 (0.000)	82	383			10.83- 110.83	34.38	
$ 65 Bromofluorobenzene					CAS #: 460-00-4			
23.665	23.621 (1.084)	95	708951	5.5	5.5		100.00	8084
23.665	23.621 (0.000)	174	98640			7.77- 107.77	13.91	
23.665	23.621 (0.000)	176	91744			7.57- 107.57	12.94	
16 Acetone					CAS #: 67-64-1			
13.198	13.092 (0.804)	43	395856	5.1	8.1		100.00	
13.198	13.092 (0.804)	58	117973			0.00- 79.57	29.80	
17 Carbon Disulfide					CAS #: 75-15-0			
13.373	13.207 (0.815)	76	41537	0.28	0.45 <		100.00	6703
20 Methylene Chloride					CAS #: 75-09-2			
14.006	13.932 (0.853)	84	4002	0.090	0.14 <		100.00	3197(a)
14.006	13.932 (0.000)	49	1478			102.14- 202.14	36.93	
14.006	13.932 (0.000)	51	551			0.00- 96.86	13.77	
28 2-Butanone					CAS #: 78-93-3			
16.059	15.991 (0.978)	72	27815	1.3	2.0		100.00	7730(Q)
16.059	15.991 (0.000)	43	33419			439.21- 539.21	120.15	
16.059	15.991 (0.000)	57	2662			0.00- 83.45	9.57	
15.791	15.991 (0.962)	72	70454	3.3	5.2		100.00	4524(Q)
15.791	15.991 (0.000)	43	30985			439.21- 539.21	43.98	
15.791	15.991 (0.000)	57	9685			0.00- 83.45	13.75	
16.478	15.991 (1.004)	72	2196	0.10	0.16		100.00	3090(Q)
16.478	15.991 (0.000)	43	462			439.21- 539.21	21.04	
16.478	15.991 (0.000)	57	297			0.00- 83.45	13.52	
33 1,1,1-Trichlorethane					CAS #: 71-55-6			
16.776	16.724 (1.022)	97	7462	0.082	0.13 <		100.00	7248(a)
16.776	16.724 (0.000)	99	1340			15.82- 115.82	17.96	
37 Benzene					CAS #: 71-43-2			
17.294	17.250 (0.975)	78	60308	0.36	0.57		100.00	9446
17.294	17.250 (0.000)	77	3998			0.00- 74.19	6.63	
38 1,2-Dichloroethane					CAS #: 107-06-2			
17.745	17.258 (1.000)	62	33616	0.52	0.82		100.00	3493(Q)
17.745	17.258 (0.000)	64	10547			0.00- 82.38	31.37	
17.310	17.258 (0.975)	62	2602	0.040	0.063		100.00	3299(a)

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY	
38 1,2-Dichloroethane (continued)									
17.310	17.258 (0.000)	64	94			0.00- 82.38	3.61		
51 Toluene					CAS #: 108-88-3				
19.858	19.821 (1.119)	92	32232	0.32	0.51		100.00	7851	
19.858	19.821 (0.000)	91	13780			116.37- 216.37	42.75		
60 Ethyl Benzene					CAS #: 100-41-4				
22.116	21.919 (1.013)	106	8178	0.093	0.15		100.00		(aQ)
22.108	21.919 (1.013)	91	18947			296.25- 396.25	231.68		
61 m,p-Xylene					CAS #: 108-38-3				
22.116	22.080 (1.013)	106	8110	0.094	0.15 <		100.00		(a)
22.108	22.080 (1.013)	91	18630			164.96- 264.96	229.72		
62 o-Xylene					CAS #: 95-47-6				
22.757	22.736 (1.043)	106	2989	0.056	0.089 <		100.00	7148	(aQ)
22.757	22.736 (0.000)	91	1180			172.77- 272.77	39.48		

QC Flag Legend

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

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-25feb.b/j022510.d
Lab Smp Id: 9702139-02A Client Smp ID: 021597D1
Inj Date : 25-FEB-1997 15:48
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#12004
Misc Info : 4.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 15:32 mhe
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.580 Target Version: 3.12
Integrator: HP RTE Compound Sublist: Parsons.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

	STD		RT	AREA	AMOUNT
	30	Bromochloromethane	16.417	1389067	5.000
*	40	1,4-Difluorobenzene	17.745	2262055	5.000
	58	Chlorobenzene-d5	21.826	2823498	5.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.599	8005094	28.8	45.5	0		0	30
Unknown				CAS #:			
7.697	302326	1.1	1.7	0		0	30
Butane				CAS #: 106-97-8			
8.742	368613	1.3	2.1	64	NBS54K.l	98	30

Data File: /chem/msdj.i/j-25feb.b/j022510.d
Report Date: 25-Feb-1997 16:55

RT	AREA	CONCENTRATIONS ON-COL(PPBV)	CONCENTRATIONS FINAL(PPBV)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Acetaldehyde					CAS #: 75-07-0		
9.536	478725	1.7	2.7	80	NBS54K.l	37	30
Pentane					CAS #: 109-66-0		
11.946	418203	1.5	2.4	53	NBS54K.l	271	30
Butanal					CAS #: 123-72-8		
15.791	608098	2.2	3.4	87	NBS54K.l	257	30
Unknown					CAS #:		
15.868	326552	1.2	1.8	0		0	30
Unknown					CAS #:		
16.203	386012	1.4	2.2	0		0	30
Acetic acid					CAS #: 64-19-7		
17.447	766747	1.7	2.7	83	NBS54K.l	113	40
Cyclobutane, ethyl-					CAS #: 4806-61-5		
17.951	251999	0.56	0.88	59	NBS54K.l	562	40
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
20.064	1242998	2.2	3.5	64	NBS54K.l	23660	58
Hexanal					CAS #: 66-25-1		
20.766	248179	0.44	0.69	58	NBS54K.l	1424	58
Acetamide, N,N-dimethyl-					CAS #: 127-19-5		
23.268	4374930	7.7	12.2	90	NBS54K.l	707	58
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
23.436	608826	1.1	1.7	64	NBS54K.l	35637	58
Unknown					CAS #:		
34.681	252961	0.45	0.71	0		0	58

Data File: /chem/msdj.i/j-25feb.b/j022510.d
Report Date: 25-Feb-1997 16:55

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j022510.d
Lab Smp Id: 9702139-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-25feb.b/to140109.m
Misc Info: 4.5"Hg-5.0psi Parsons

Calibration Date: 02/25/97
Calibration Time: 1050
Client Smp ID: 021597D1
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	221139	132683	309595	194483	-12.05
40 1,4-Difluorobenzene	1000893	600536	1401250	869236	-13.15
58 Chlorobenzene-d5	931057	558634	1303480	830269	-10.83

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	16.36	15.86	16.86	16.42	0.33
40 1,4-Difluorobenzene	17.71	17.21	18.21	17.74	0.22
58 Chlorobenzene-d5	21.79	21.29	22.29	21.83	0.14

MH 2/25/97

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdj.i/j-25feb.b/j022510.d
Report Date: 25-Feb-1997 16:55

Air Toxics Limited

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 9702139-02A
Level: LOW
Data Type: MS DATA
SpikeList File:
Client SDG: j-25feb
Fraction: VOA
Client Smp ID: 021597D1
Operator: MH
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem/msdj.i/j-25feb.b/to140109.m
Misc Info: 4.5"Hg-5.0psi Parsons

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	5.4	108.59	60-140
$ 49 Toluene-d8	5.0	5.5	110.55	60-140
$ 65 Bromofluorobenzene	5.0	5.5	110.28	60-140

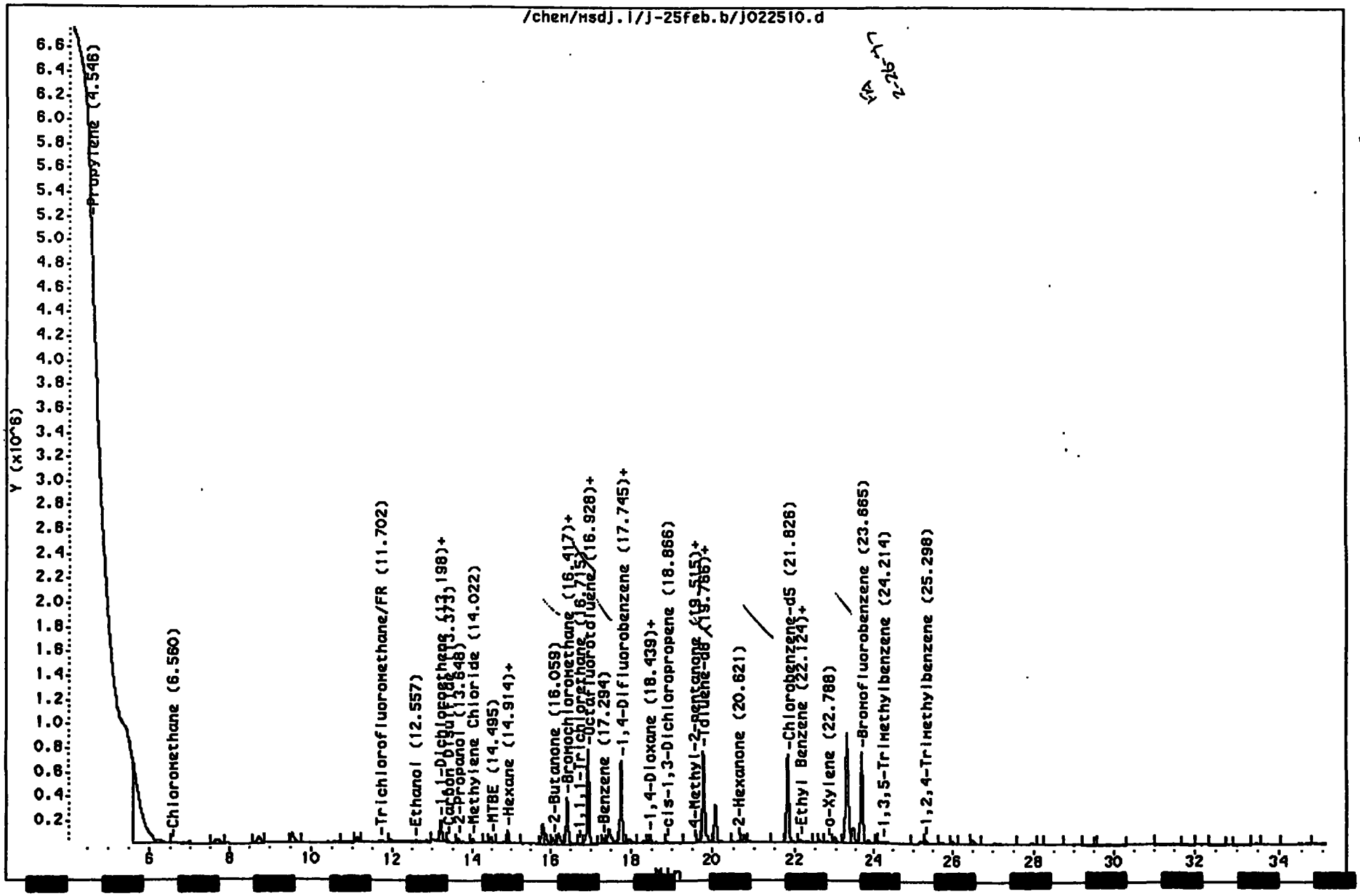
MH 3/5/97

Data File: /chem/msdj.i/j-25feb.b/j022510.d
Date : 25-FEB-1997 15:48
Client ID: 02159701
Sample Info: 500mL Can#12004

Column phase: RTx-624

Instrument: msdj.i

Operator: MH
Column diameter: 0.58



Data File: /chem/msdj.i/j-25feb.b/j022510.d

Date : 25-FEB-1997 15:48

Client ID: 021597D1

Instrument: msdj.i

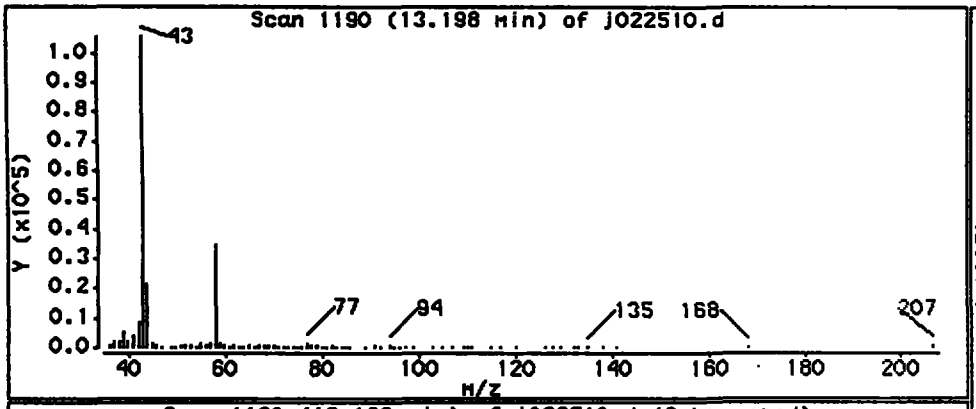
Sample Info: 500mL Can#12004

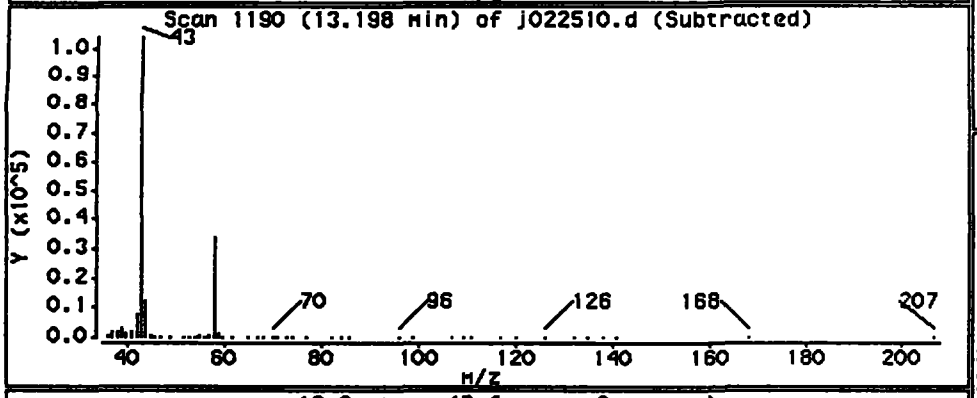
Operator: MH

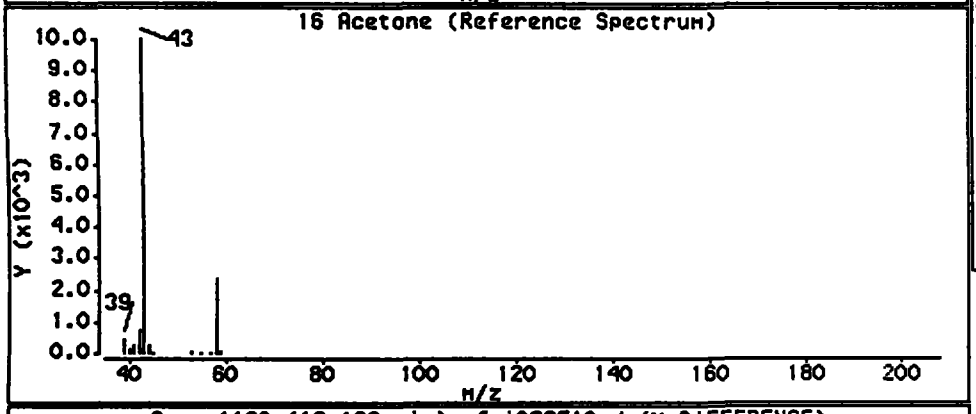
Column phase: RTx-624

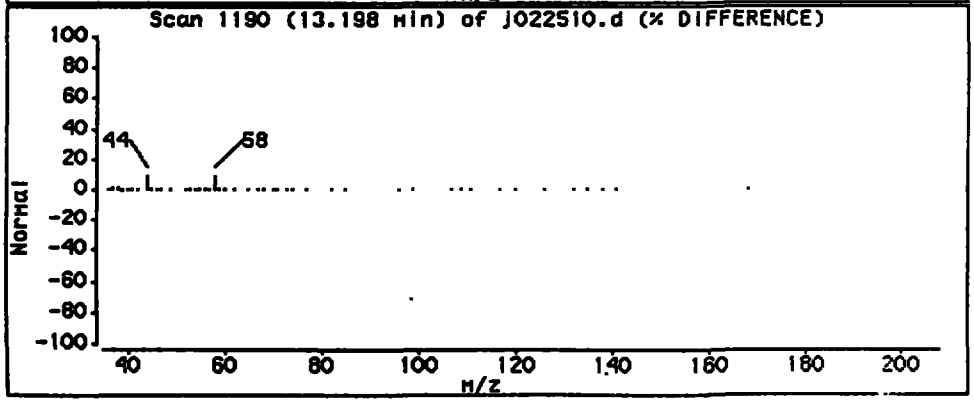
Column diameter: 0.58

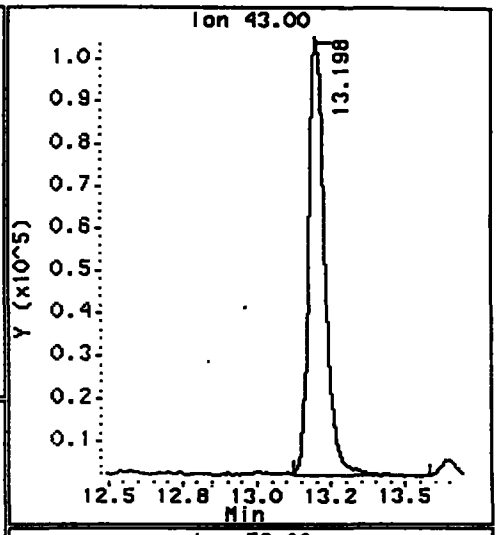
16 Acetone

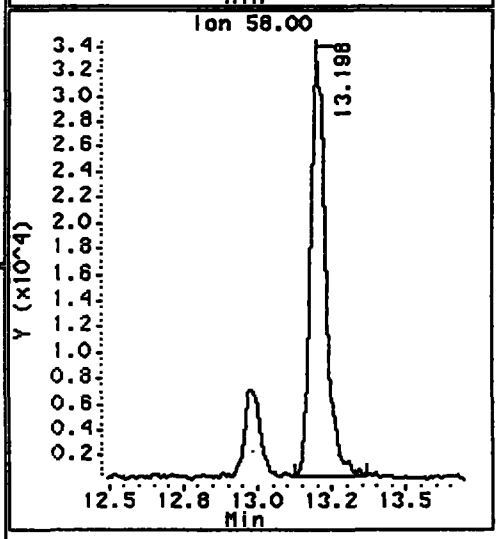












Data File: /chem/msdj.i/j-25feb.b/j022510.d

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Date : 25-FEB-1997 15:48

Client ID: 021587D1

Instrument: msdj.i

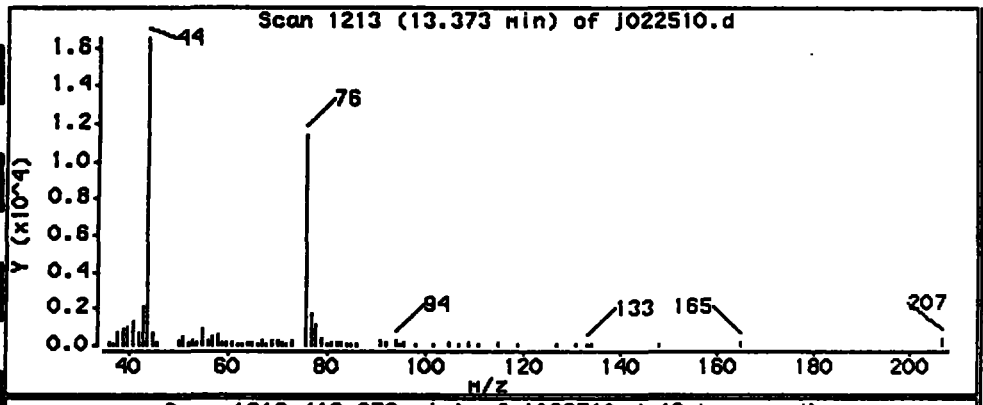
Sample Info: 500mL Can#12004

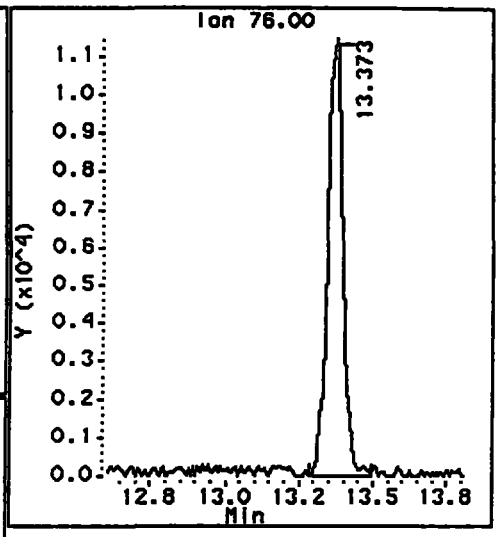
Operator: MH

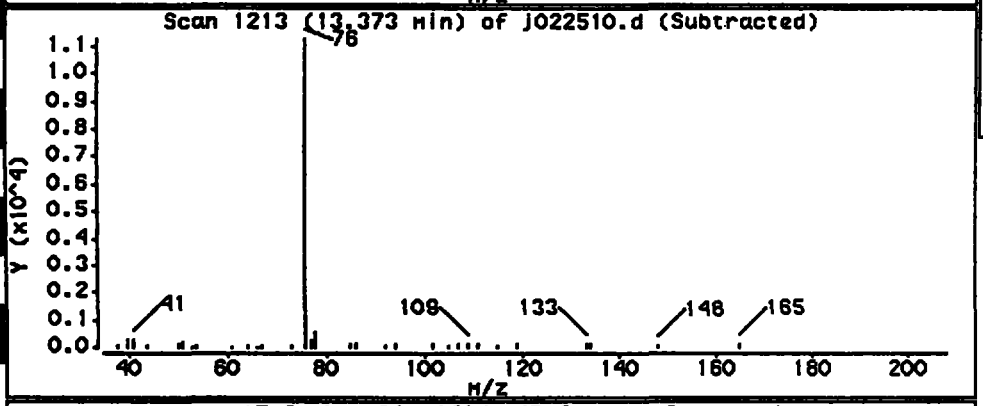
Column phase: RTx-624

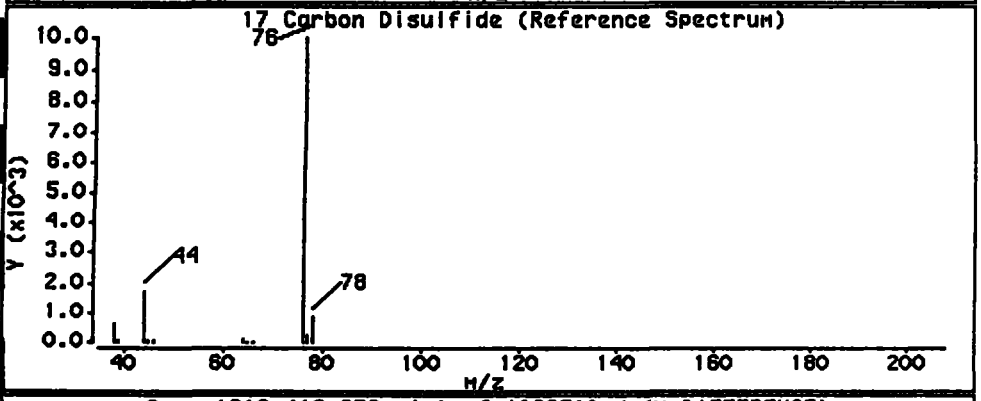
Column diameter: 0.58

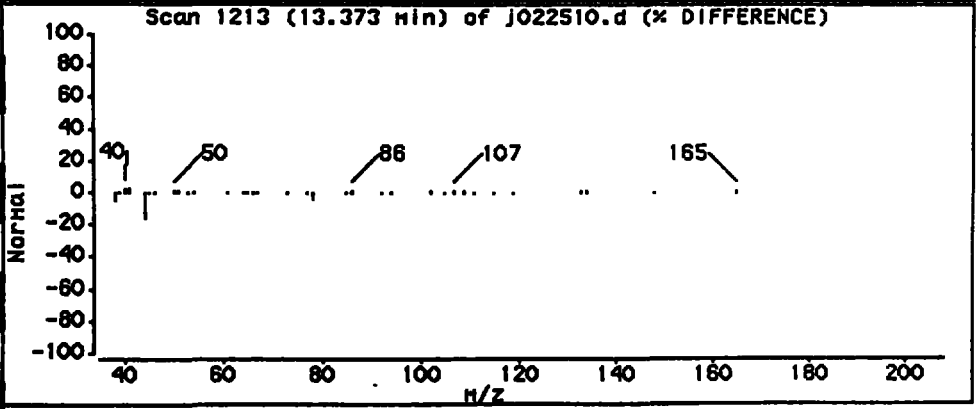
17 Carbon Disulfide











Data File: /chem/msdj.i/j-25feb.b/j022510.d

Date : 25-FEB-1997 15:48

Client ID: 021597D1

Instrument: msdj.i

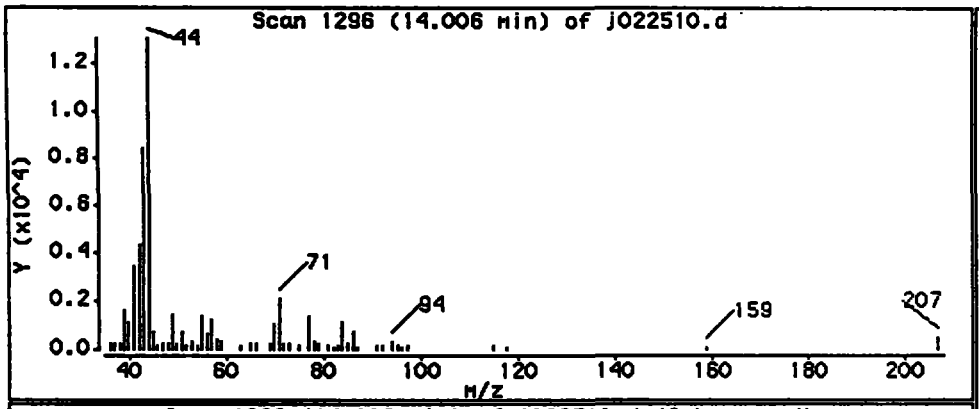
Sample Info: 500mL Can#12004

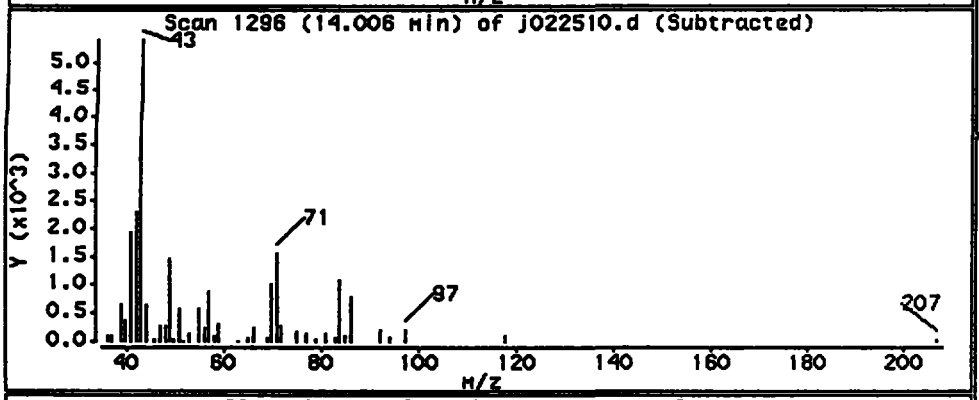
Operator: MH

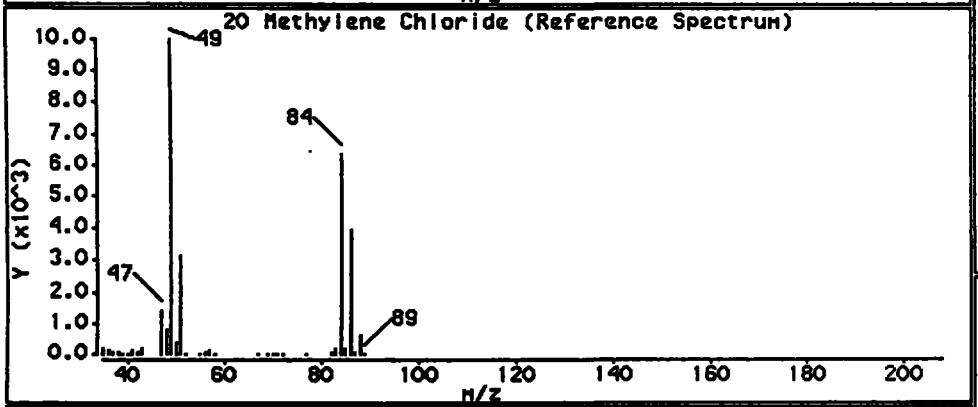
Column phase: RTx-624

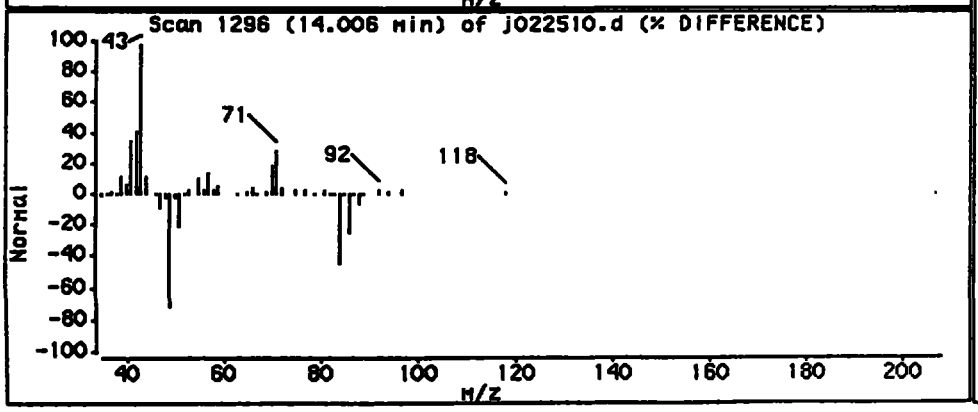
Column diameter: 0.58

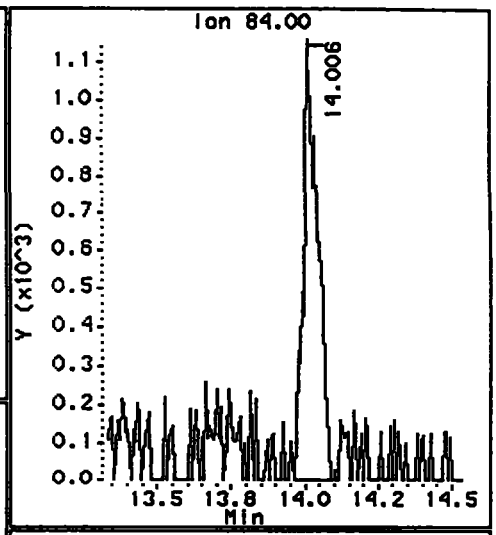
20 Methylene Chloride

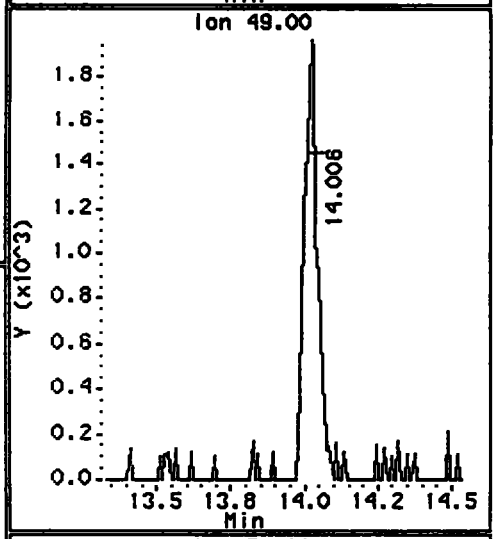


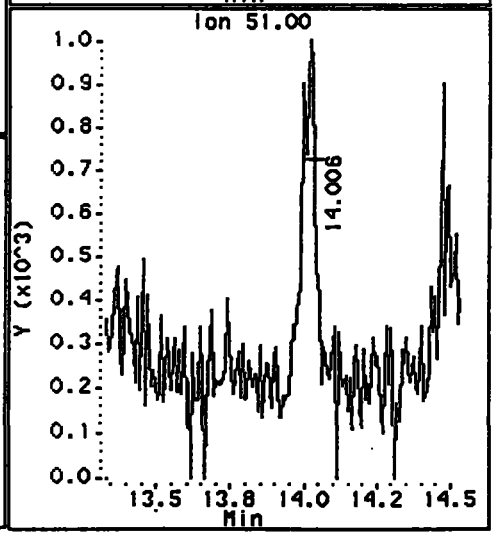












Data File: /chem/msdj.i/j-25feb.b/j022510.d

Date : 25-FEB-1997 15:48

Client ID: 021597D1

Instrument: msdj.i

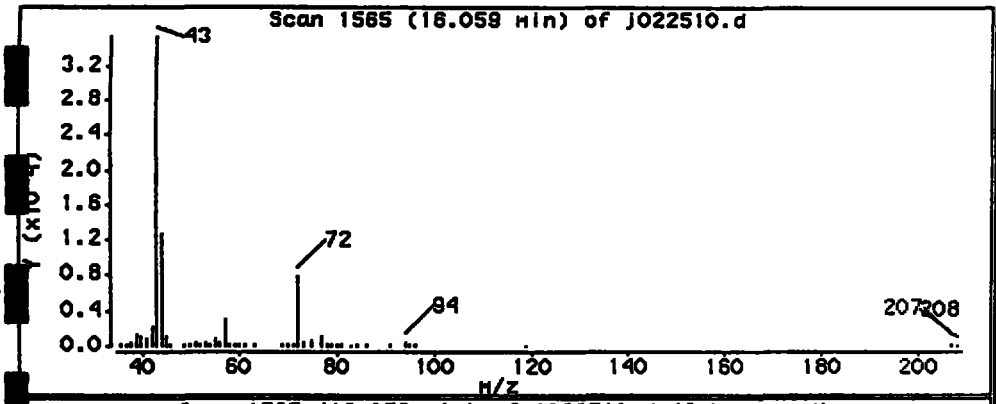
Sample Info: 500mL Can#12004

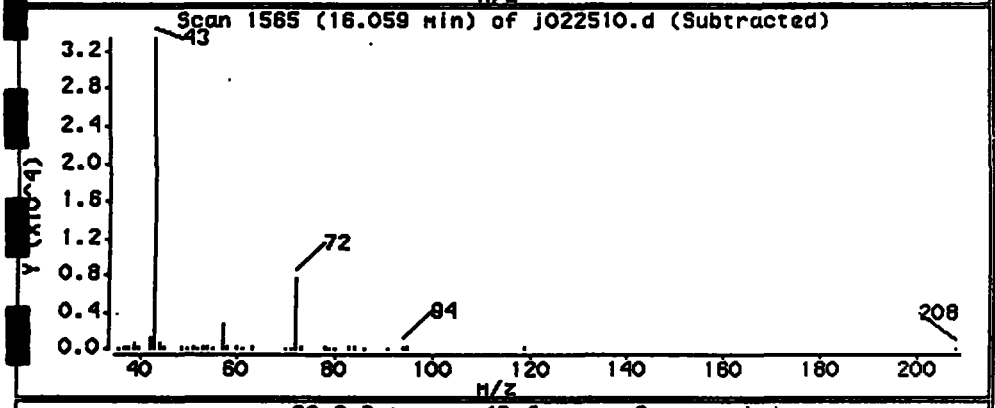
Operator: MH

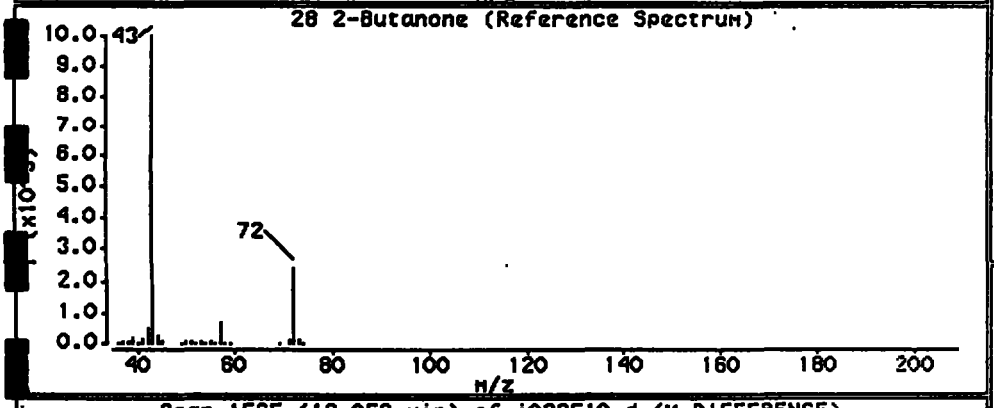
Column phase: RTx-624

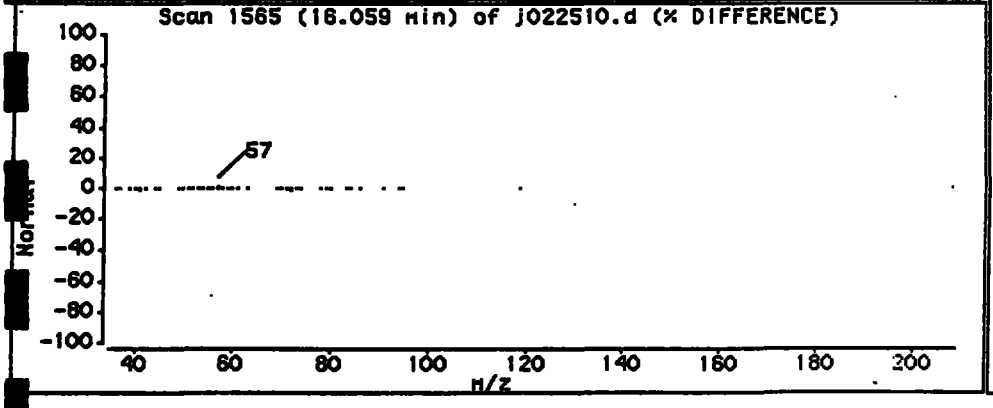
Column diameter: 0.58

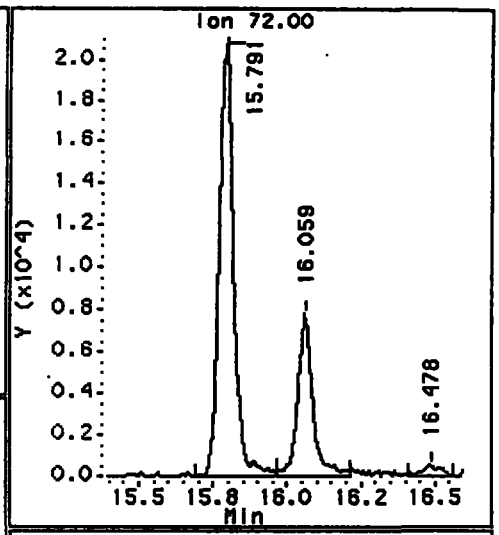
28 2-Butanone

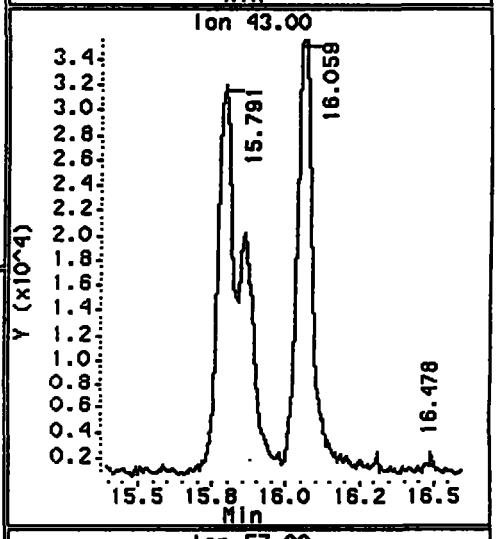


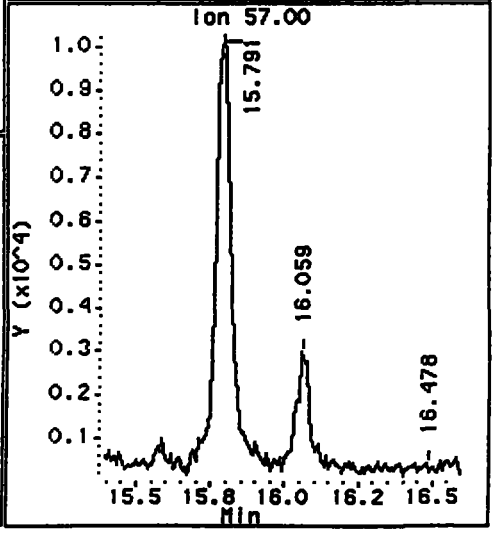












Data File: /chem/msdj.i/j-25feb.b/j022510.d

Date : 25-FEB-1997 15:48

Client ID: 021597D1

Instrument: msdj.i

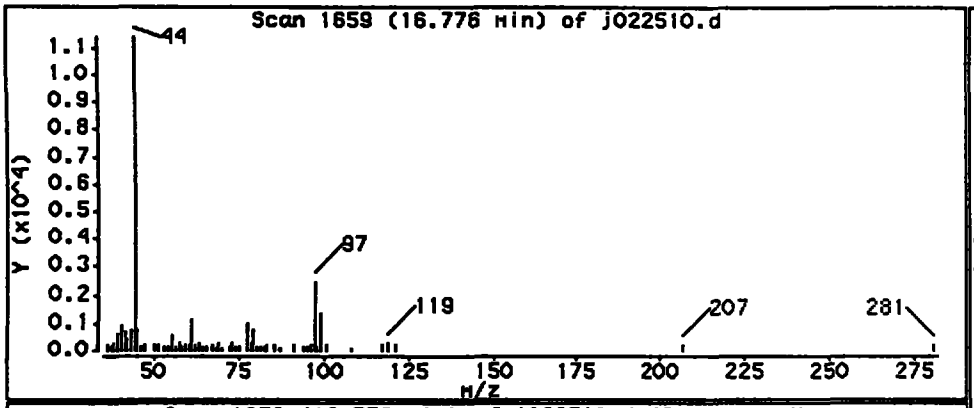
Sample Info: 500mL Can#12004

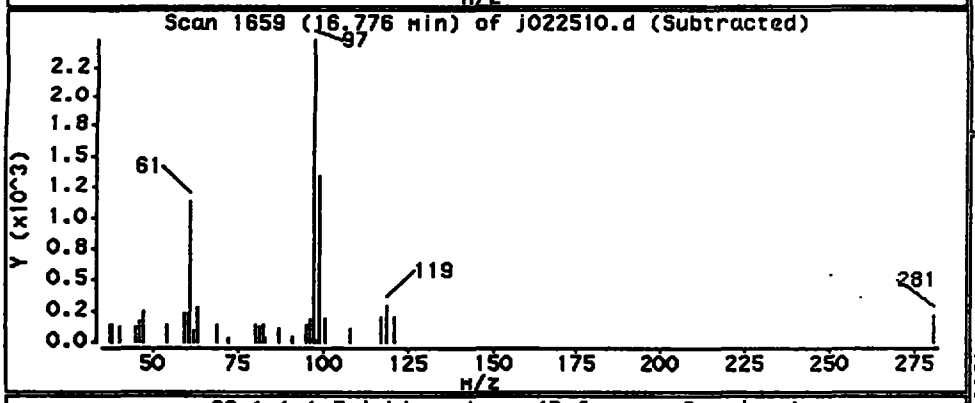
Operator: MH

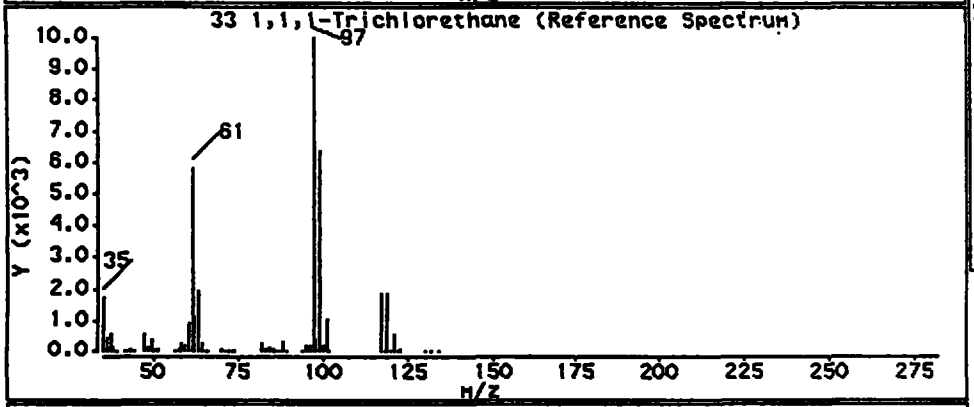
Column phase: RTx-624

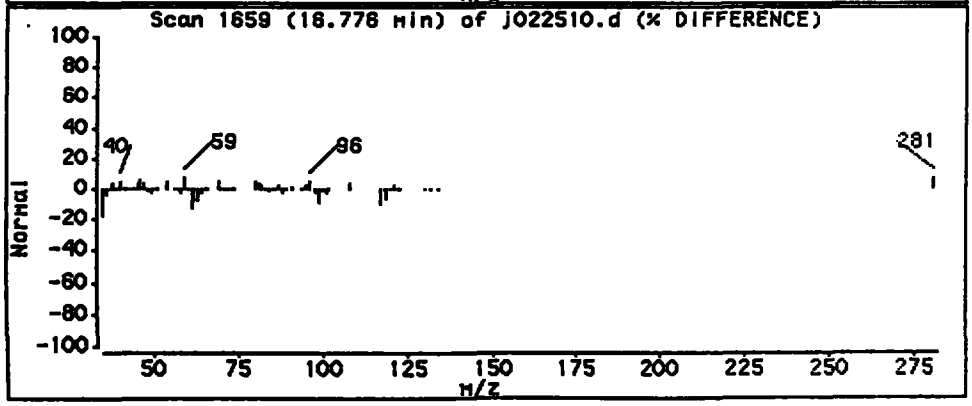
Column diameter: 0.58

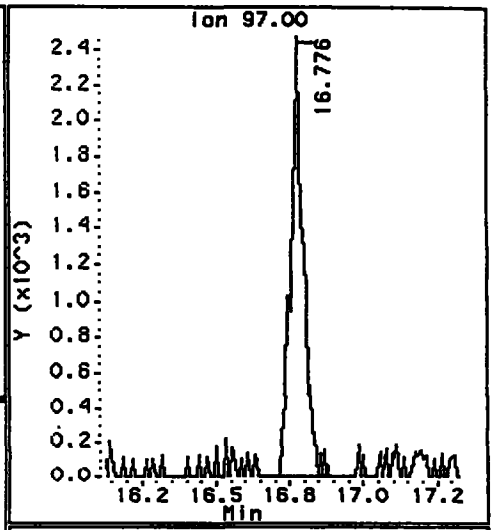
33 1,1,1-Trichloroethane

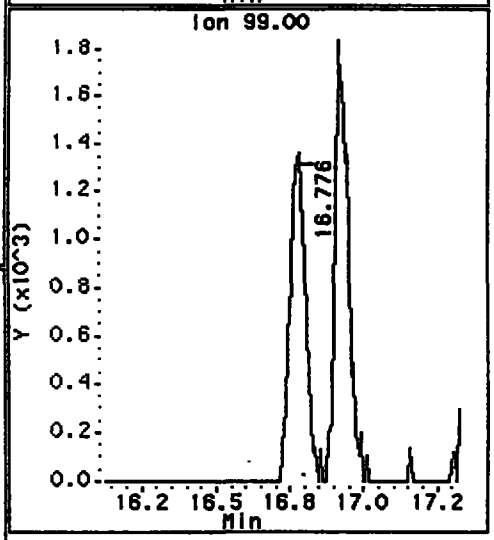












Data File: /chem/msdj.i/j-25feb.b/j022510.d

Date : 25-FEB-1997 15:48

Client ID: 021597D1

Instrument: msdj.i

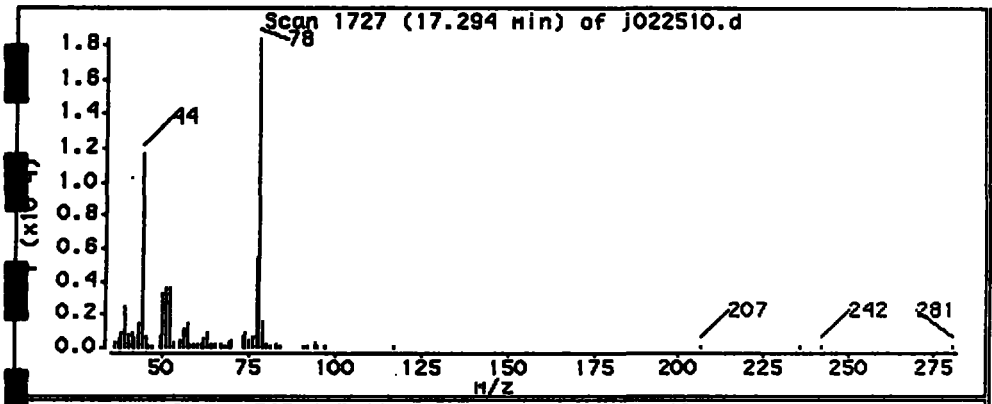
Sample Info: 500mL Can#12004

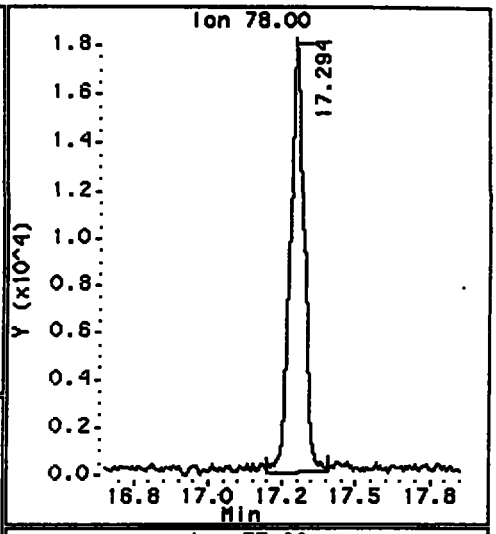
Operator: MH

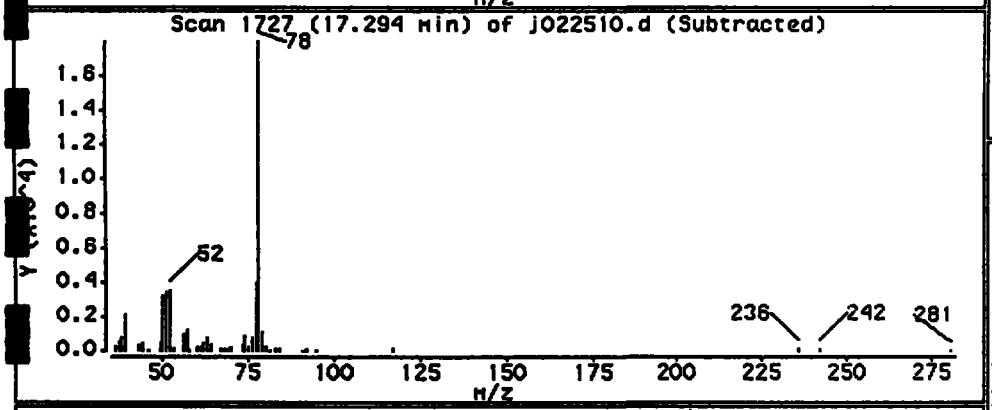
Column phase: RTx-624

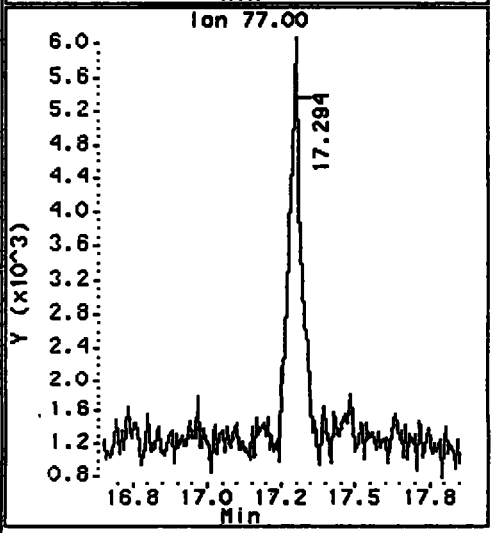
Column diameter: 0.58

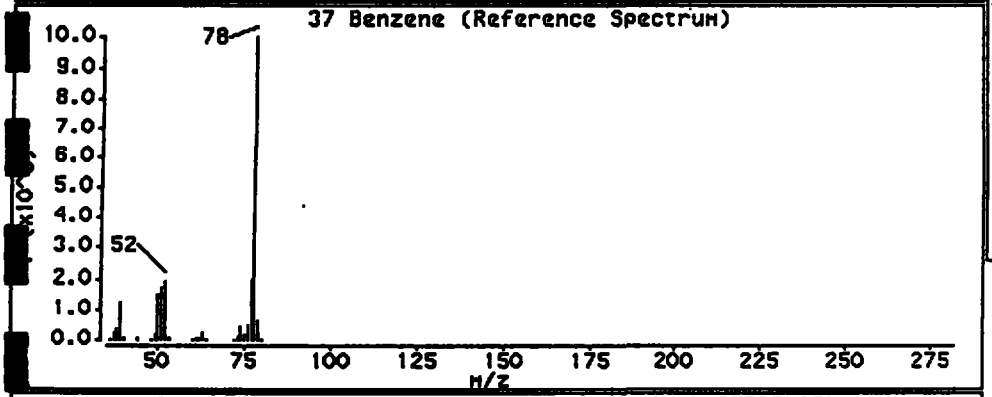
37 Benzene

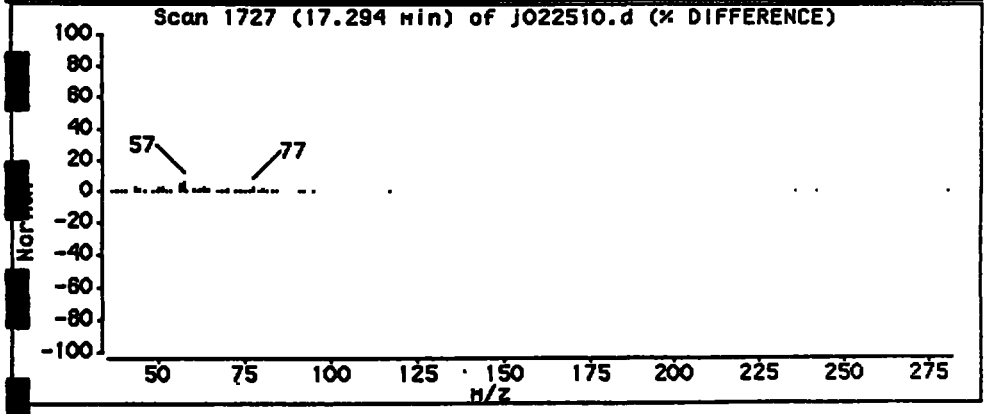












Data File: /chem/msdj.i/j-25feb.b/j022510.d

Date : 25-FEB-1997 15:48

Client ID: 021597D1

Instrument: msdj.i

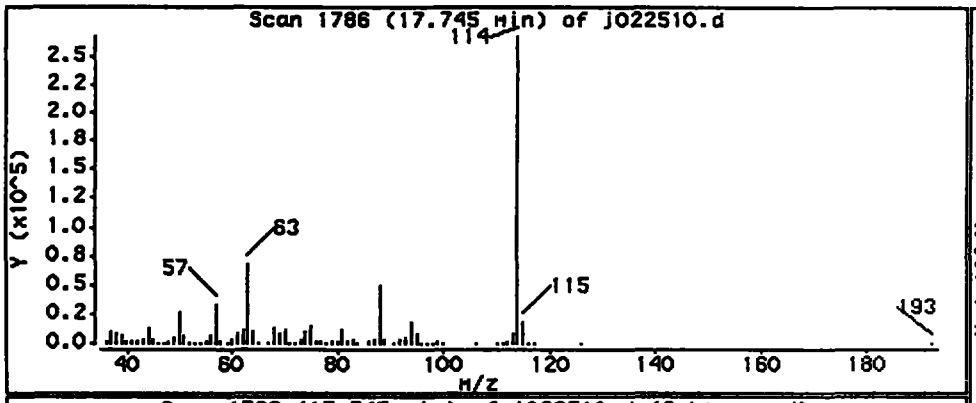
Sample Info: 500mL Can#12004

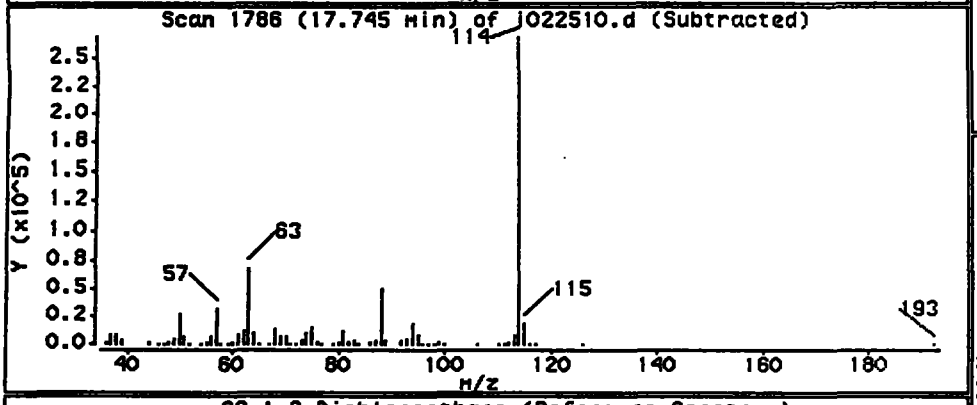
Operator: MH

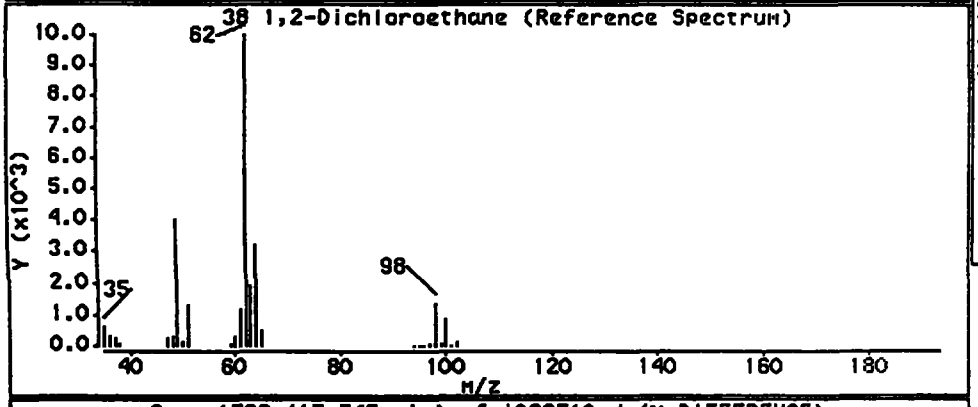
Column phase: RTx-624

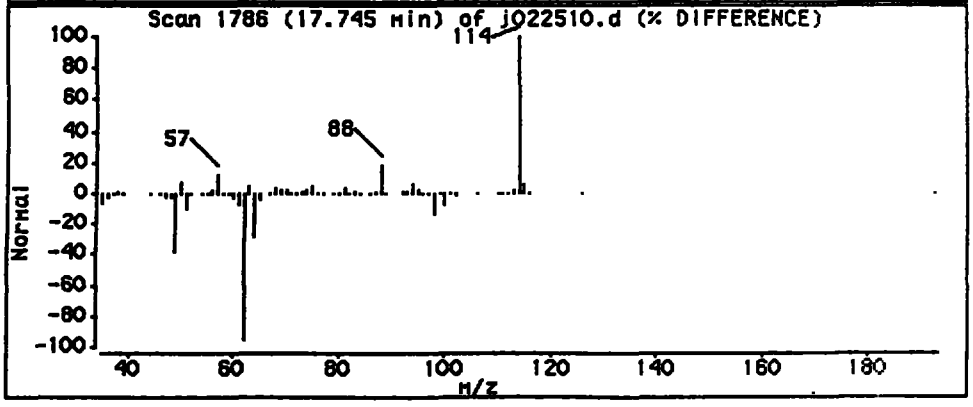
Column diameter: 0.58

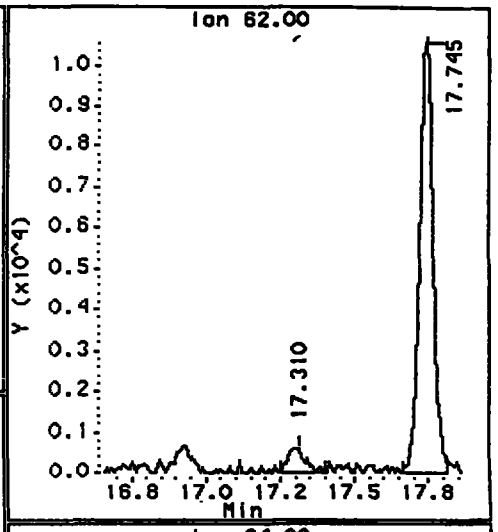
38 1,2-Dichloroethane

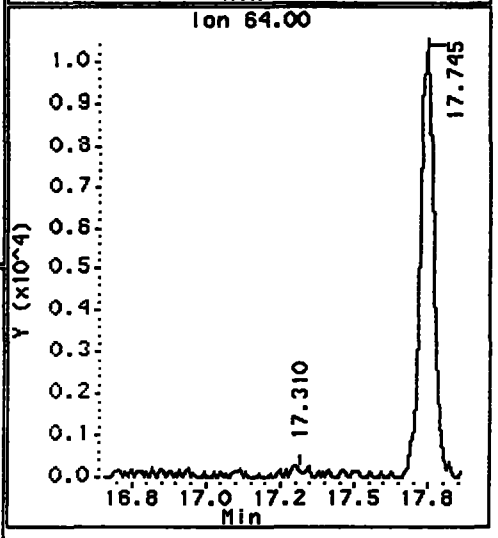












Data File: /chem/msdj.i/J-25feb.b/J022510.d

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Date : 25-FEB-1997 15:48

Client ID: 021597D1

Instrument: msdj.i

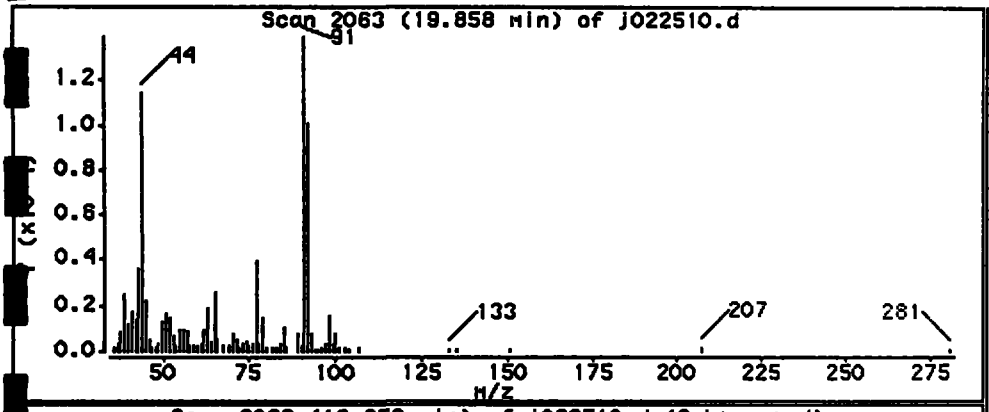
Sample Info: 500mL Can#12004

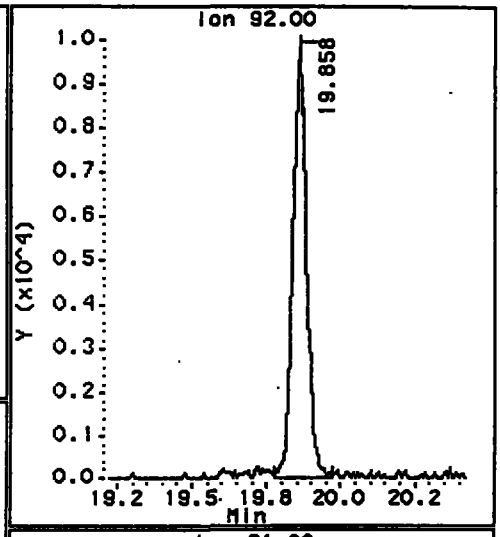
Operator: MH

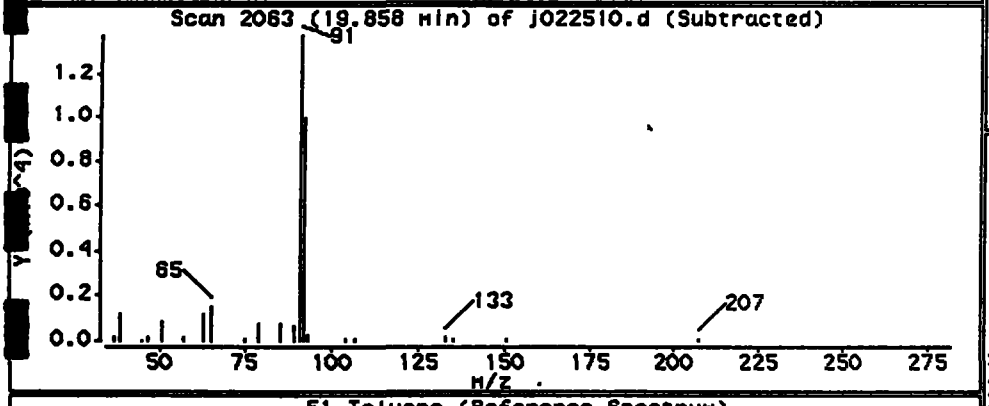
Column phase: RTx-624

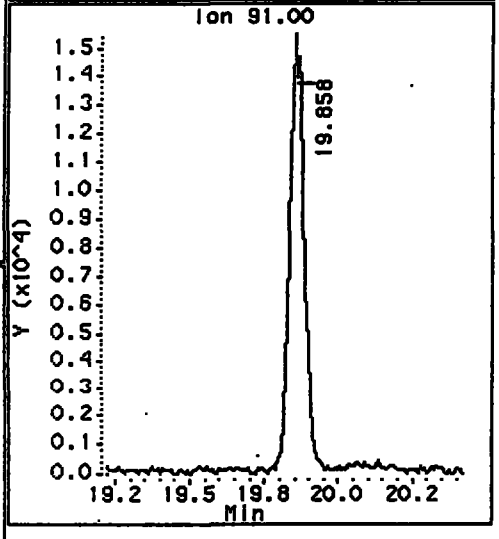
Column diameter: 0.58

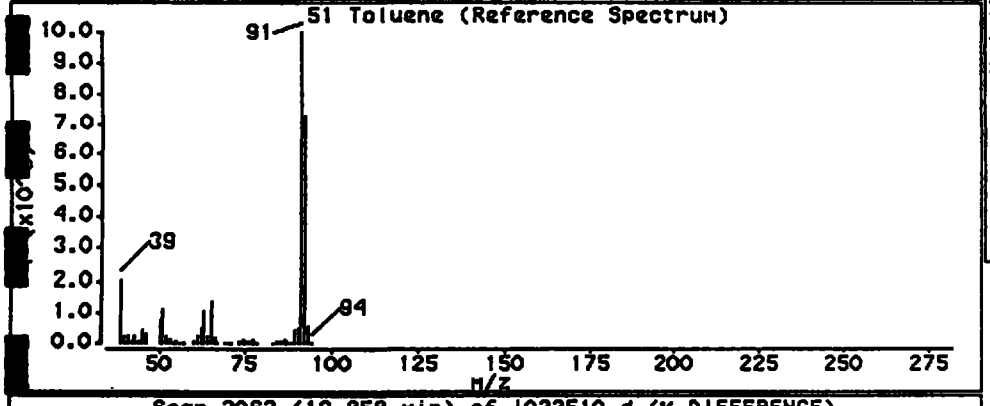
51 Toluene

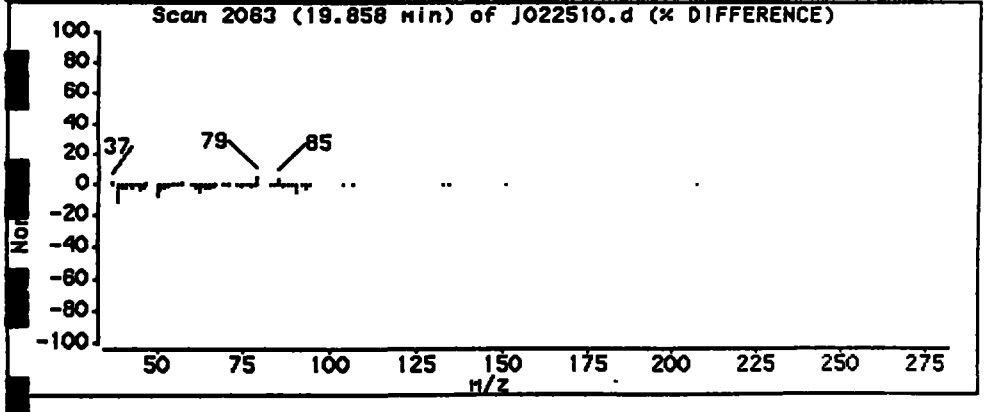












Data File: /chem/msdj.i/j-25feb.b/j022510.d

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Date : 25-FEB-1997 15:48

Client ID: 021597D1

Instrument: msdj.i

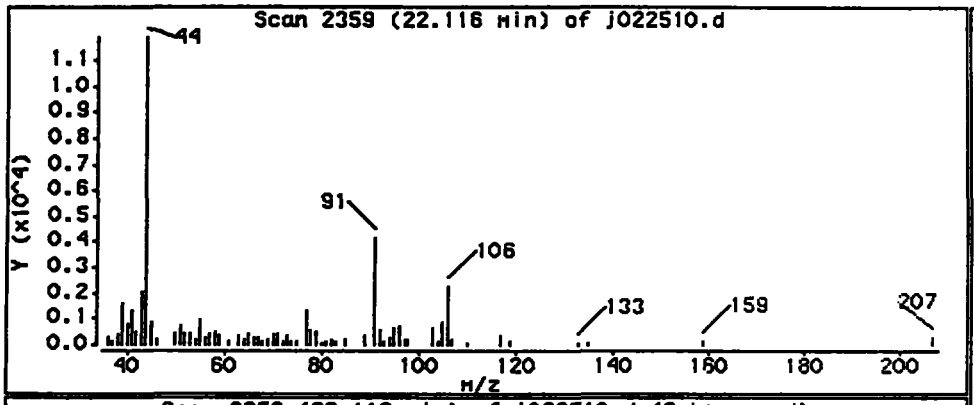
Sample Info: 500mL Can#12004

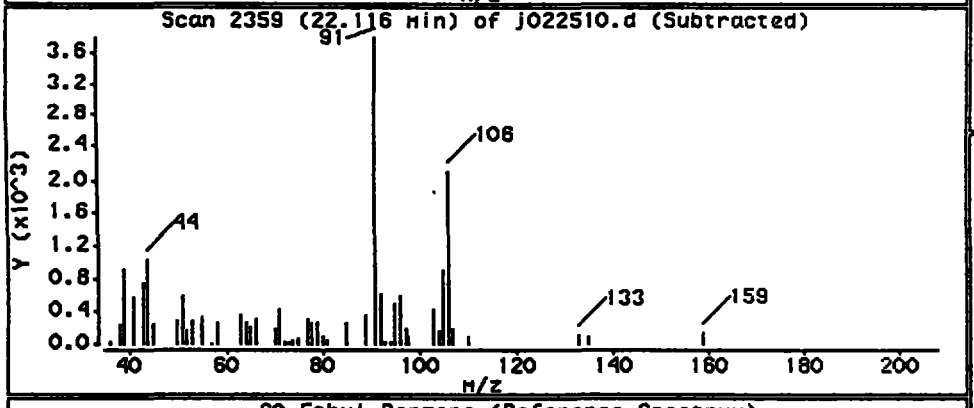
Operator: MH

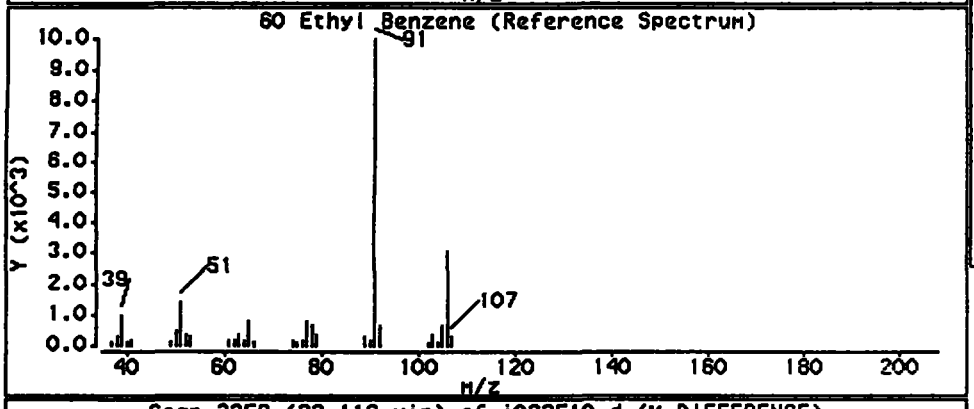
Column phase: RTx-624

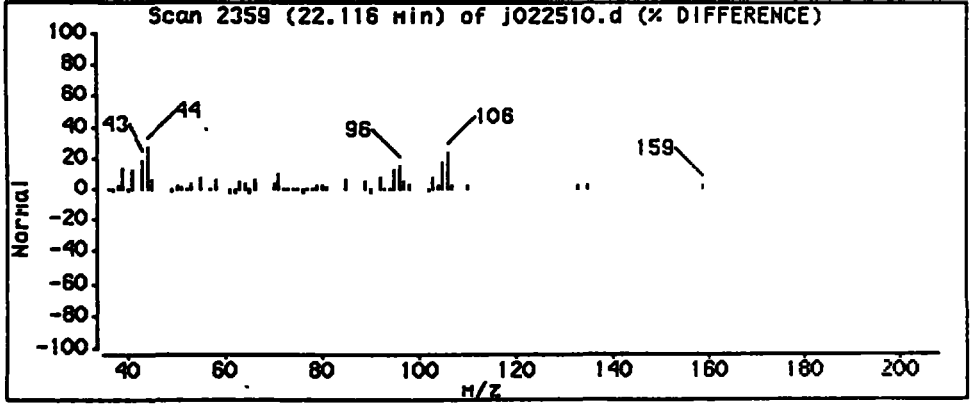
Column diameter: 0.58

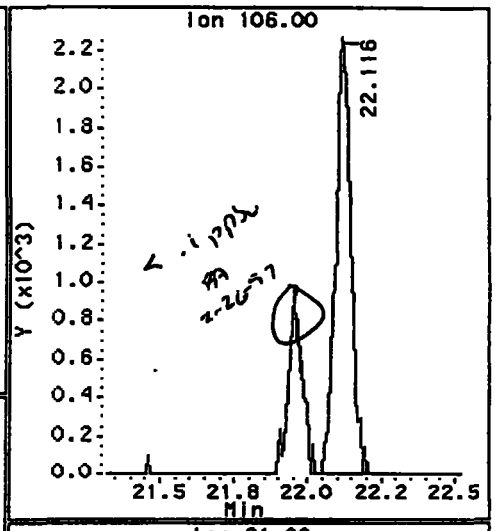
60 Ethyl Benzene

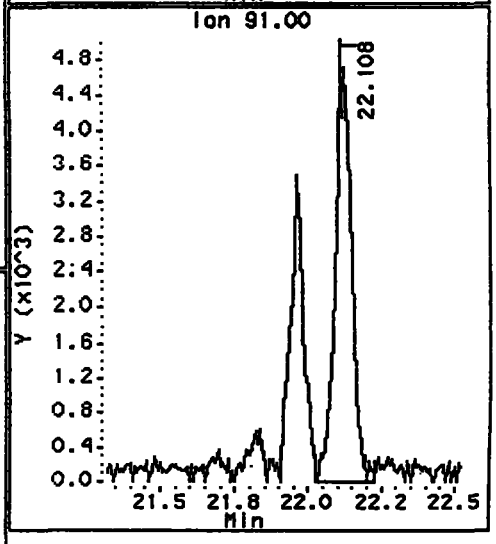












Data File: /chem/msdj.i/j-25feb.b/j022510.d

Date : 25-FEB-1997 15:48

Client ID: 021597D1

Instrument: msdj.i

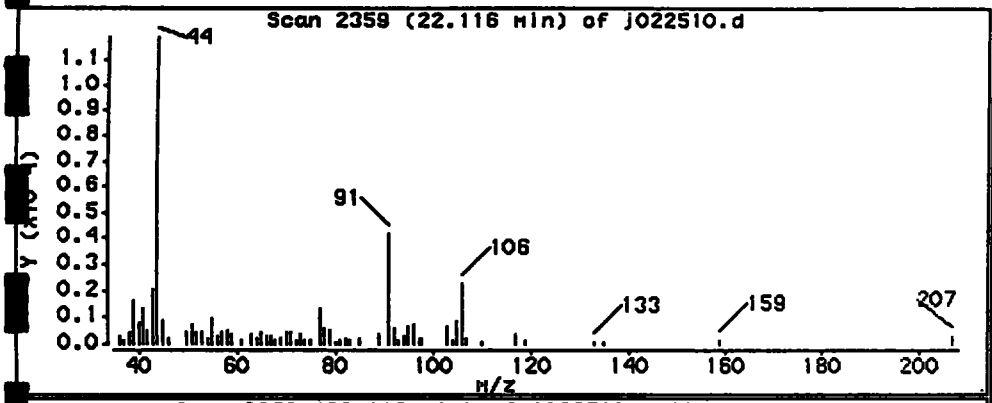
Sample Info: 500mL Can#12004

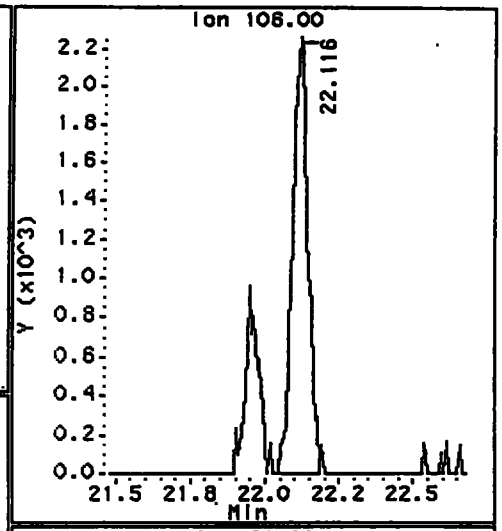
Operator: MH

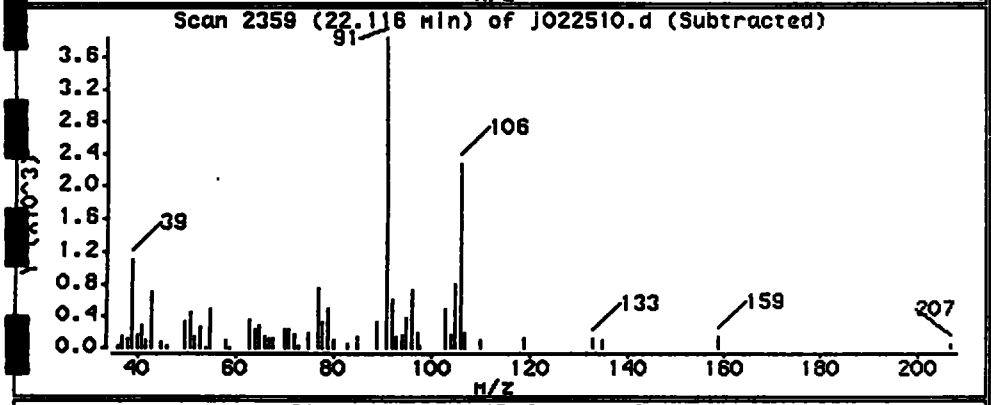
Column phase: RTx-624

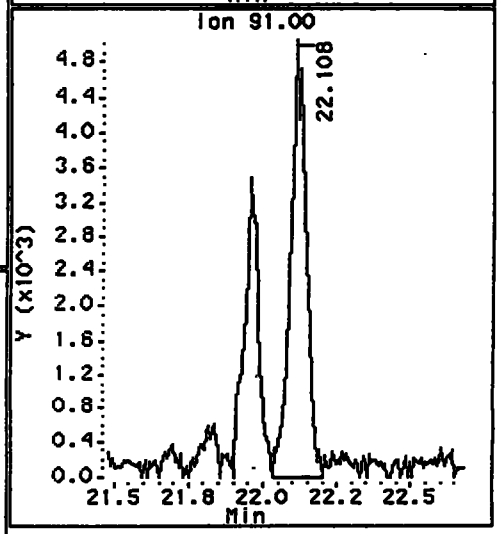
Column diameter: 0.58

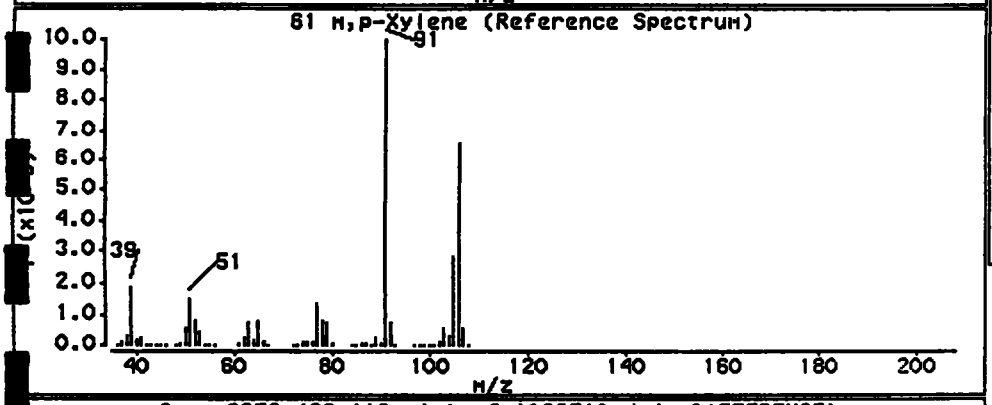
61 m,p-Xylene

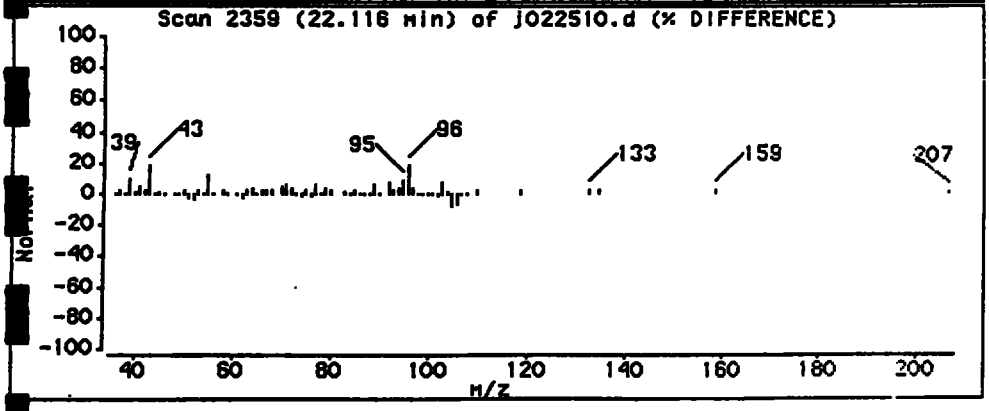












Data File: /chem/msdj.i/j-25feb.b/j022510.d

Date : 25-FEB-1997 15:48

Client ID: 021597D1

Instrument: msdj.i

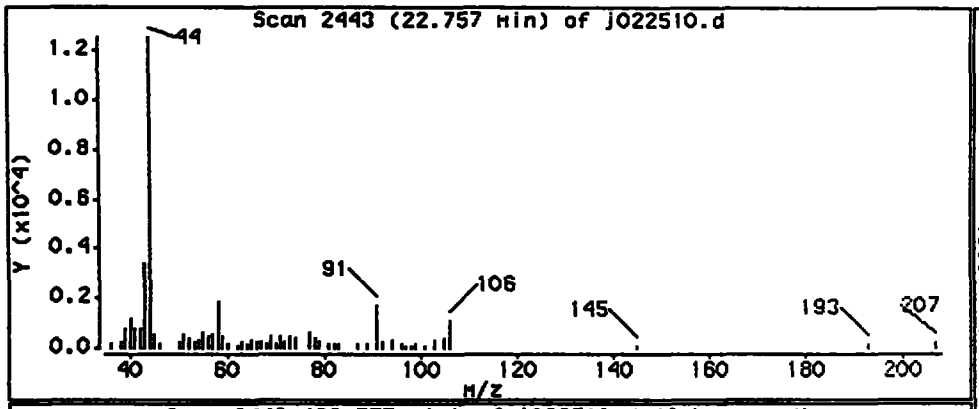
Sample Info: 500mL Can#12004

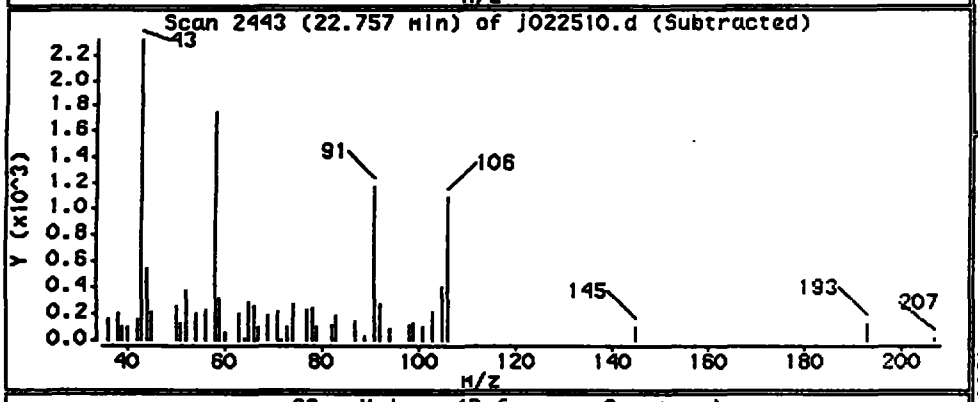
Operator: MH

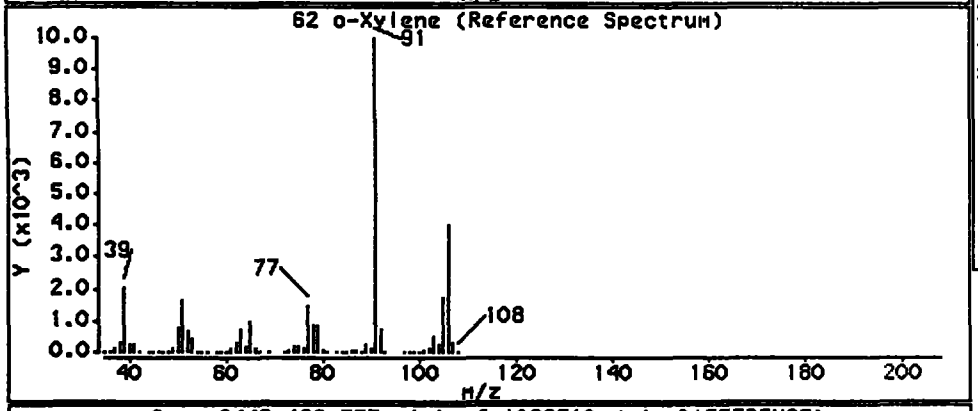
Column phase: RTx-624

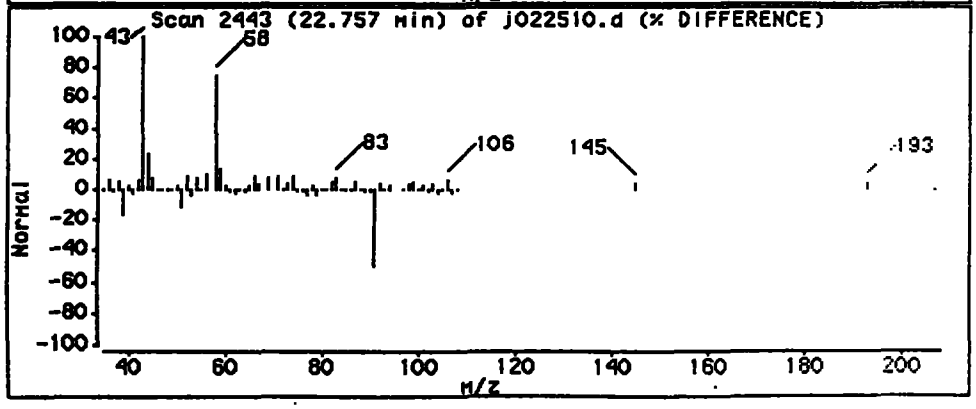
Column diameter: 0.58

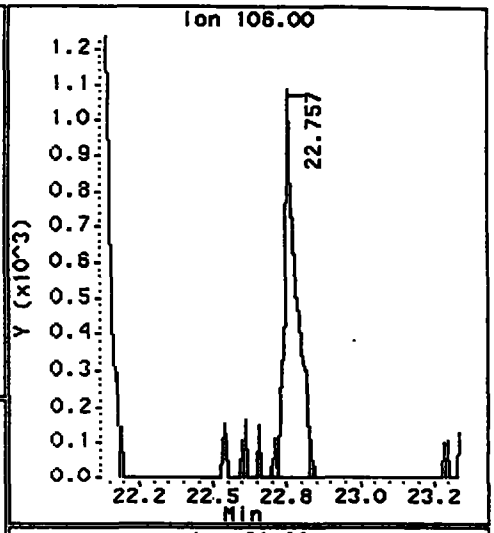
62 o-Xylene

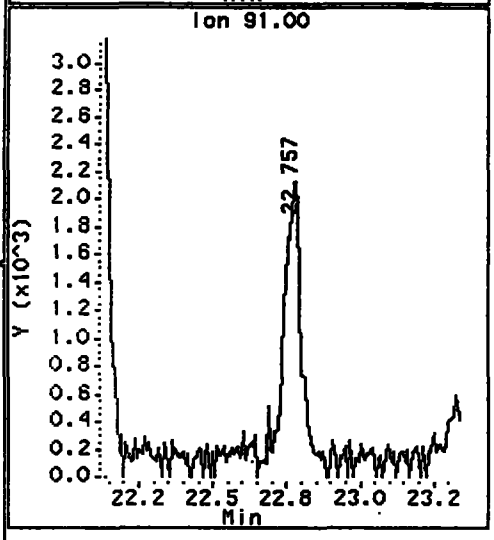






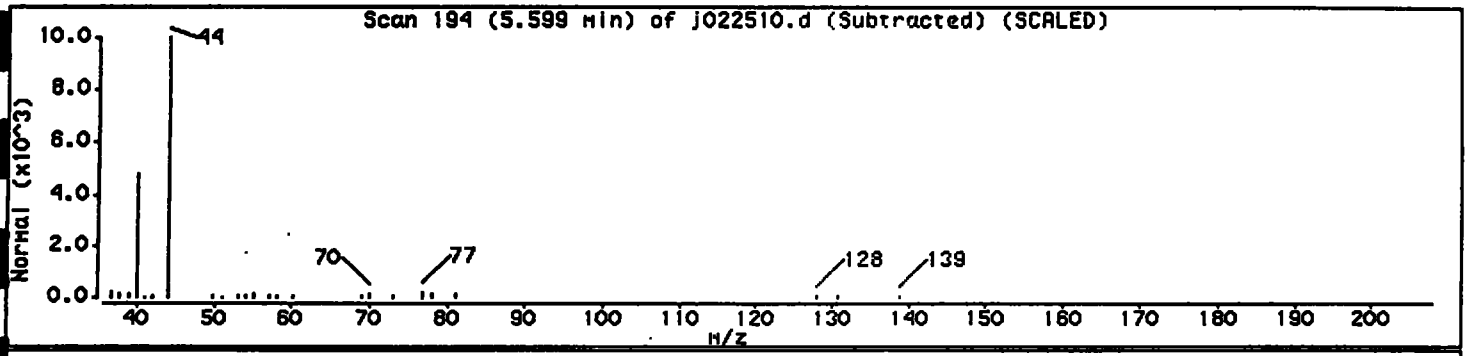




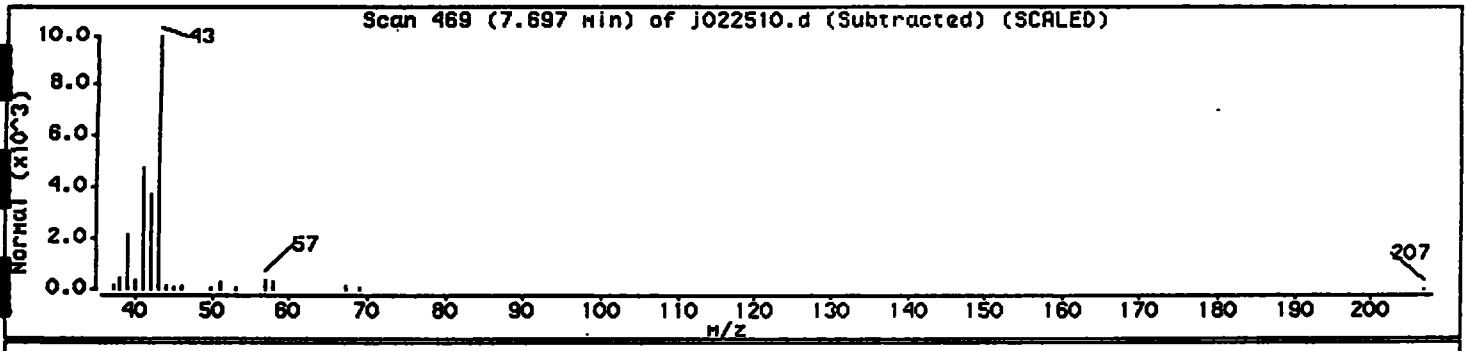


Data File: /chem/msdj.i/j-25feb.b/j022510.d
Date : 25-FEB-1997 15:48
Instrument: msdj.i
Client ID: 021597D1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

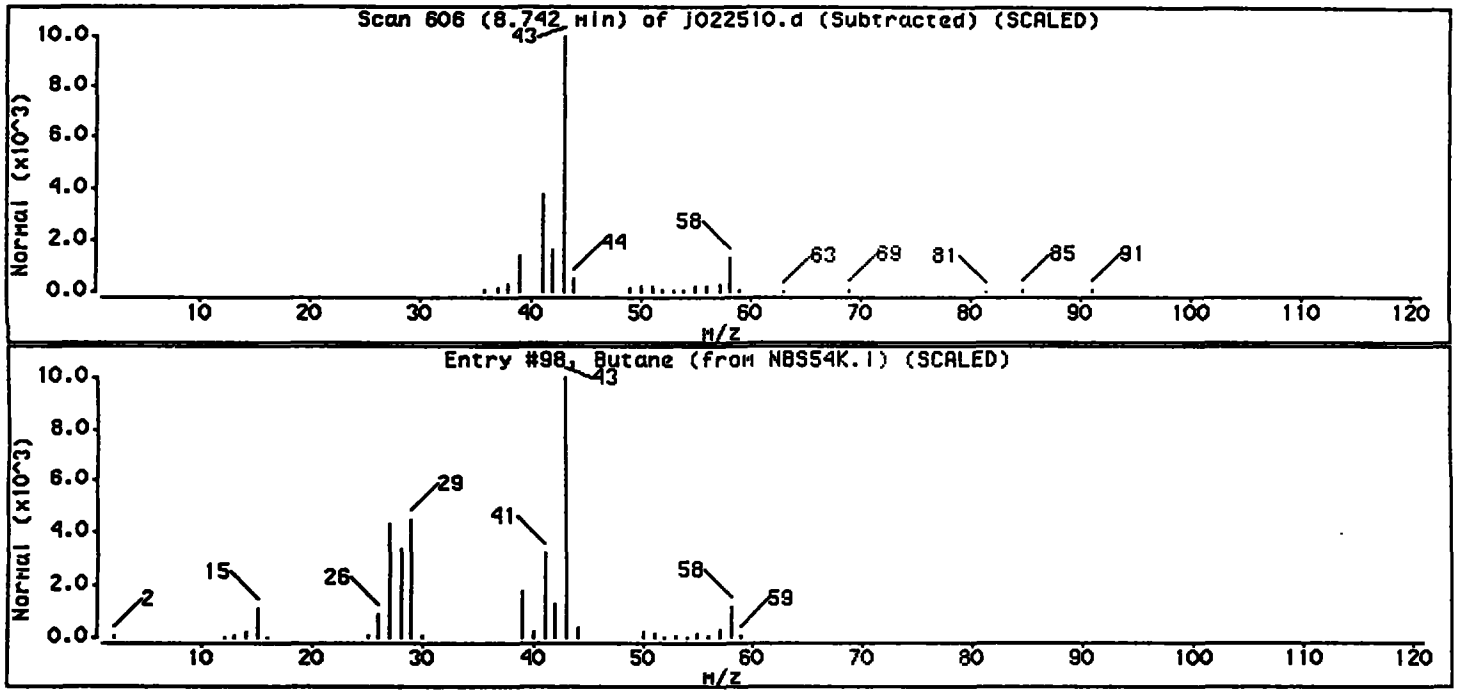


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

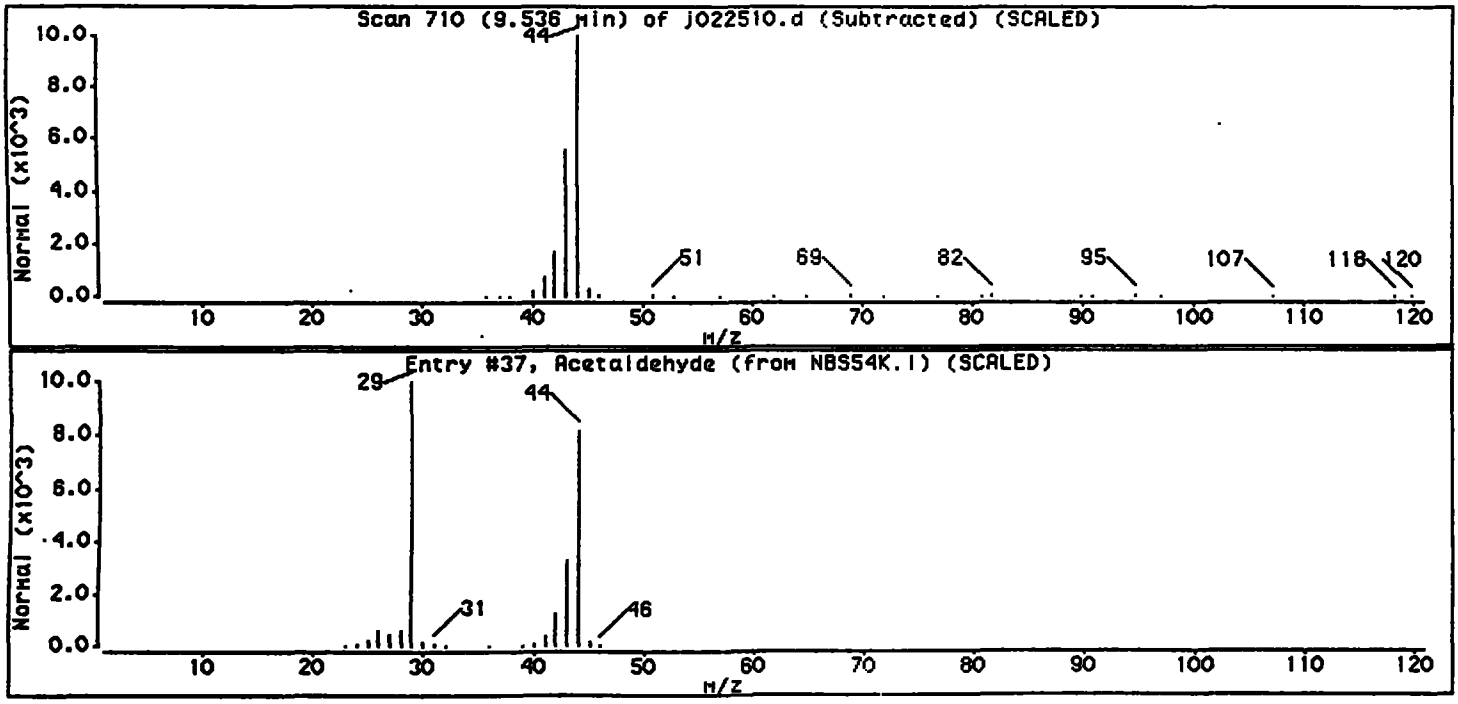


Data File: /chem/msdj.i/j-25feb.b/j022510.d
Date : 25-FEB-1997 15:48
Instrument: msdj.i
Client ID: 021597D1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane	106-97-8	NBS54K.I	98	64

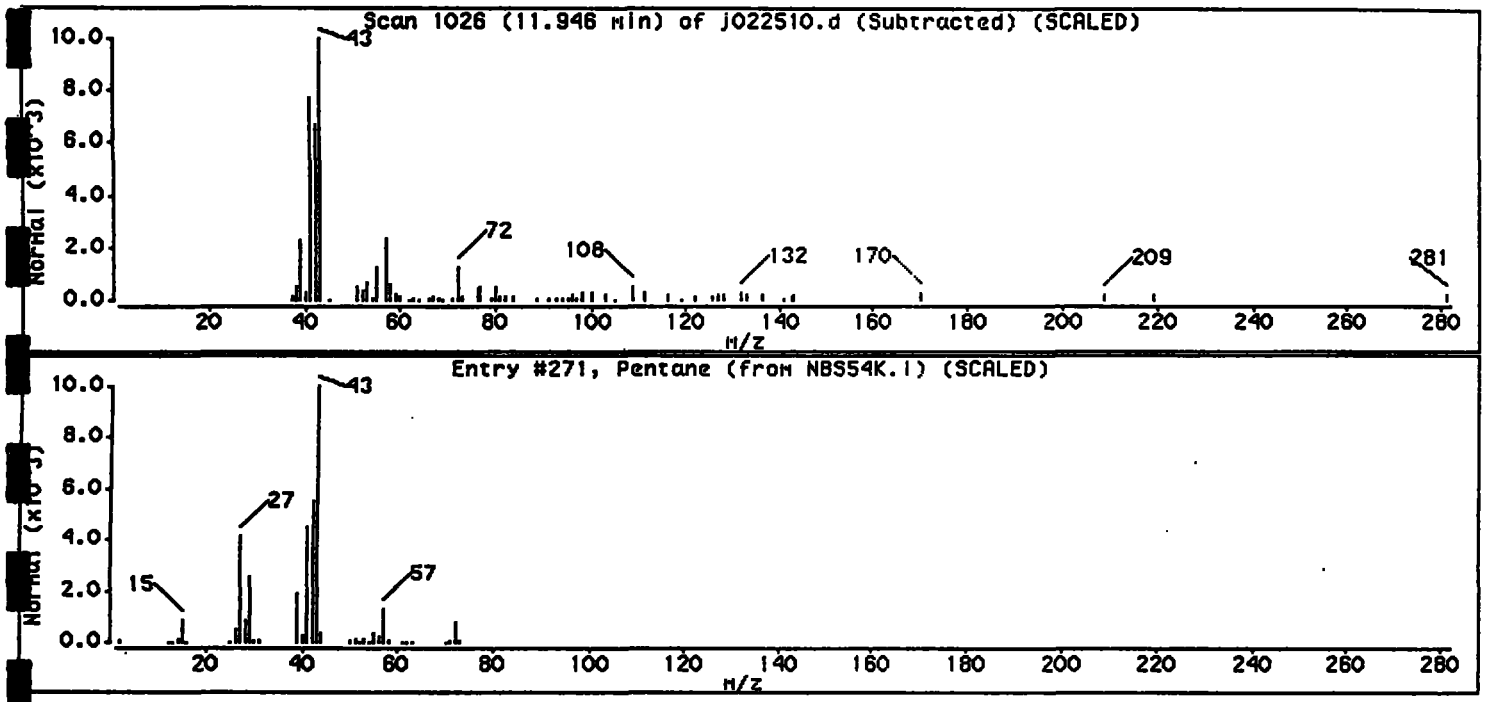


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetaldehyde	75-07-0	NBS54K.I	37	80

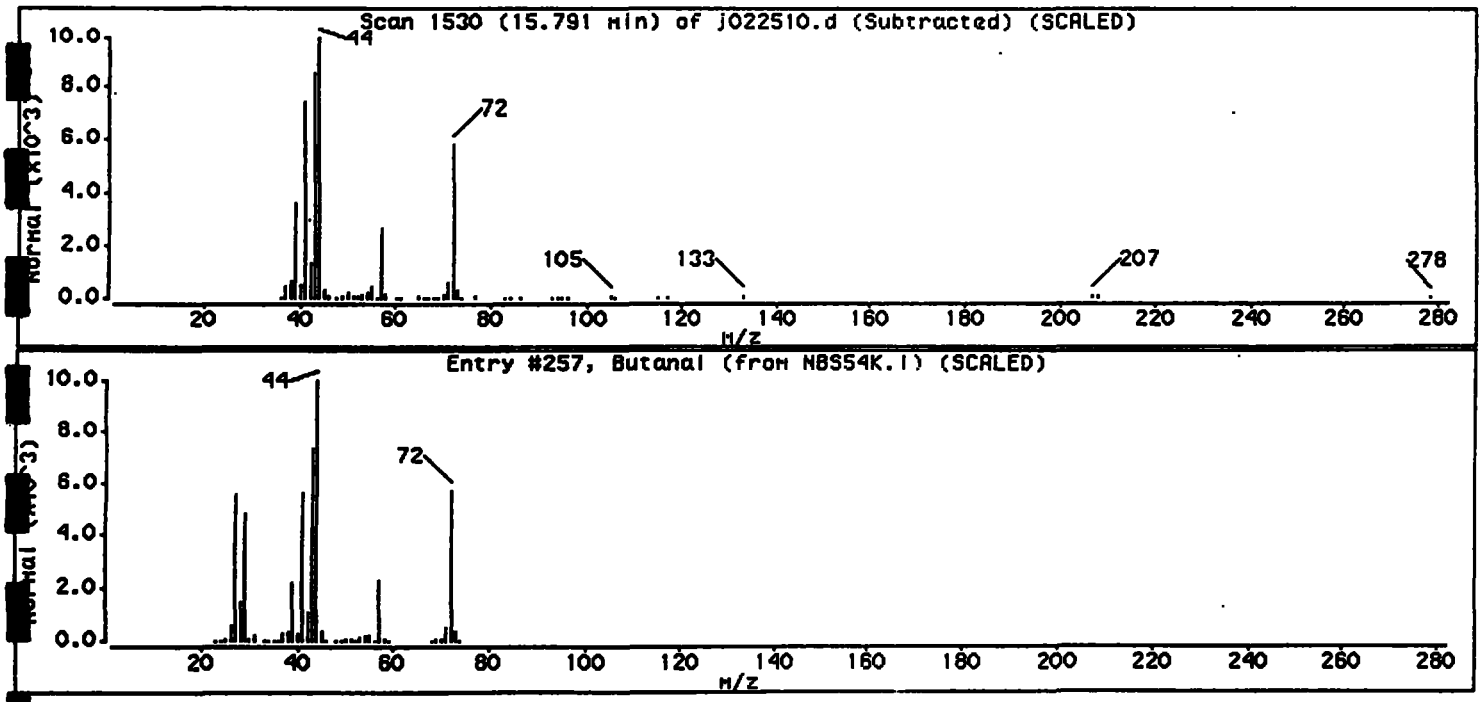


Data File: /chem/nsdj.i/j-25feb.b/j022510.d
Date : 25-FEB-1997 15:48
Instrument: nsdj.i
Client ID: 021597D1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Pentane	109-66-0	NBS54K.I	271	53

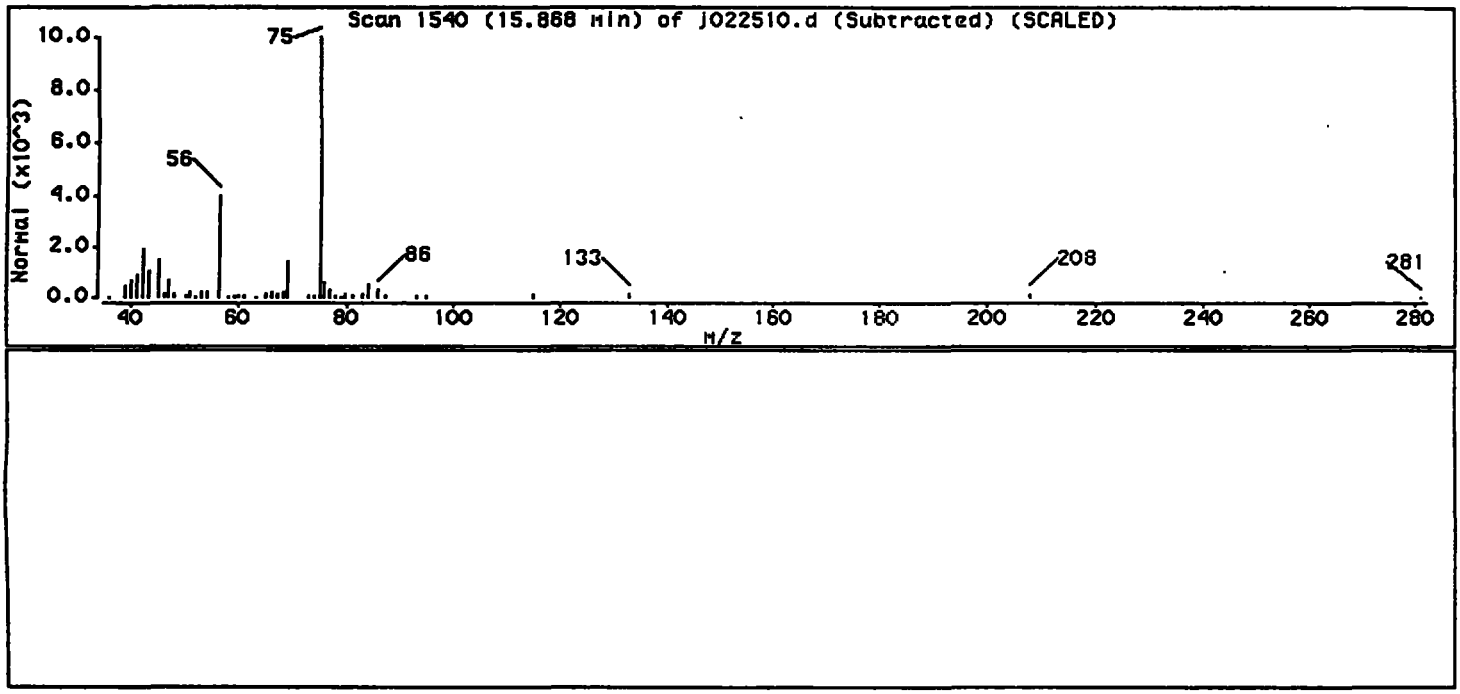


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanal	123-72-8	NBS54K.I	257	87

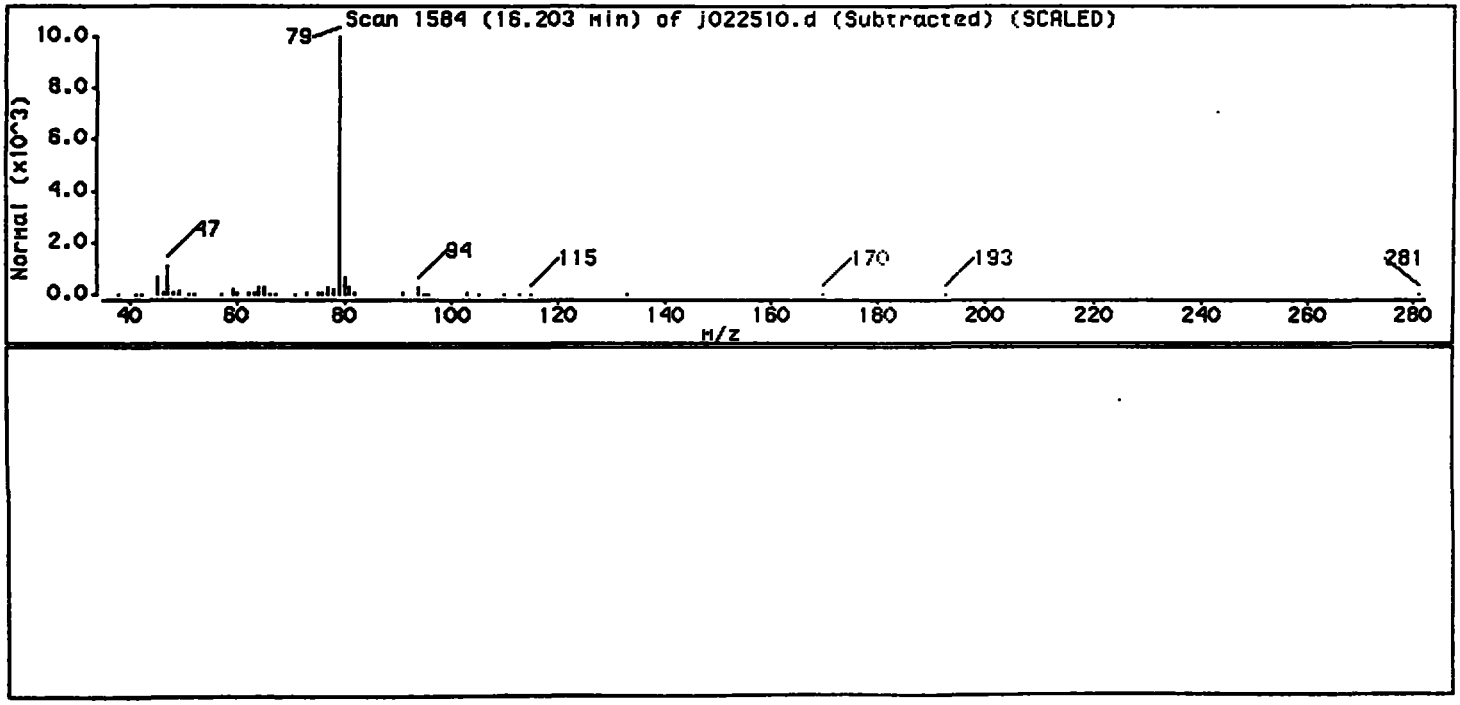


Data File: /chem/msdj.i/j-25feb.b/j022510.d
Date : 25-FEB-1997 15:48
Instrument: msdj.i
Client ID: 021597D1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

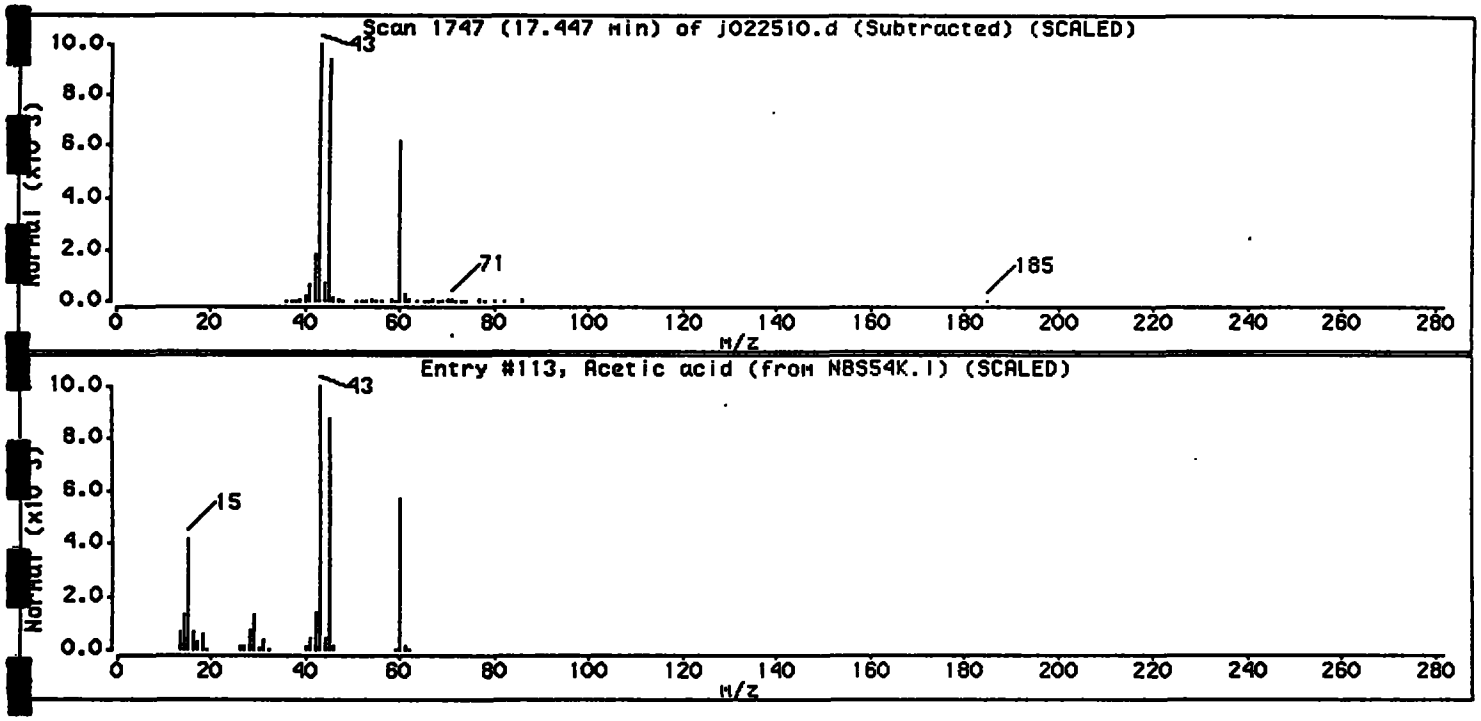


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

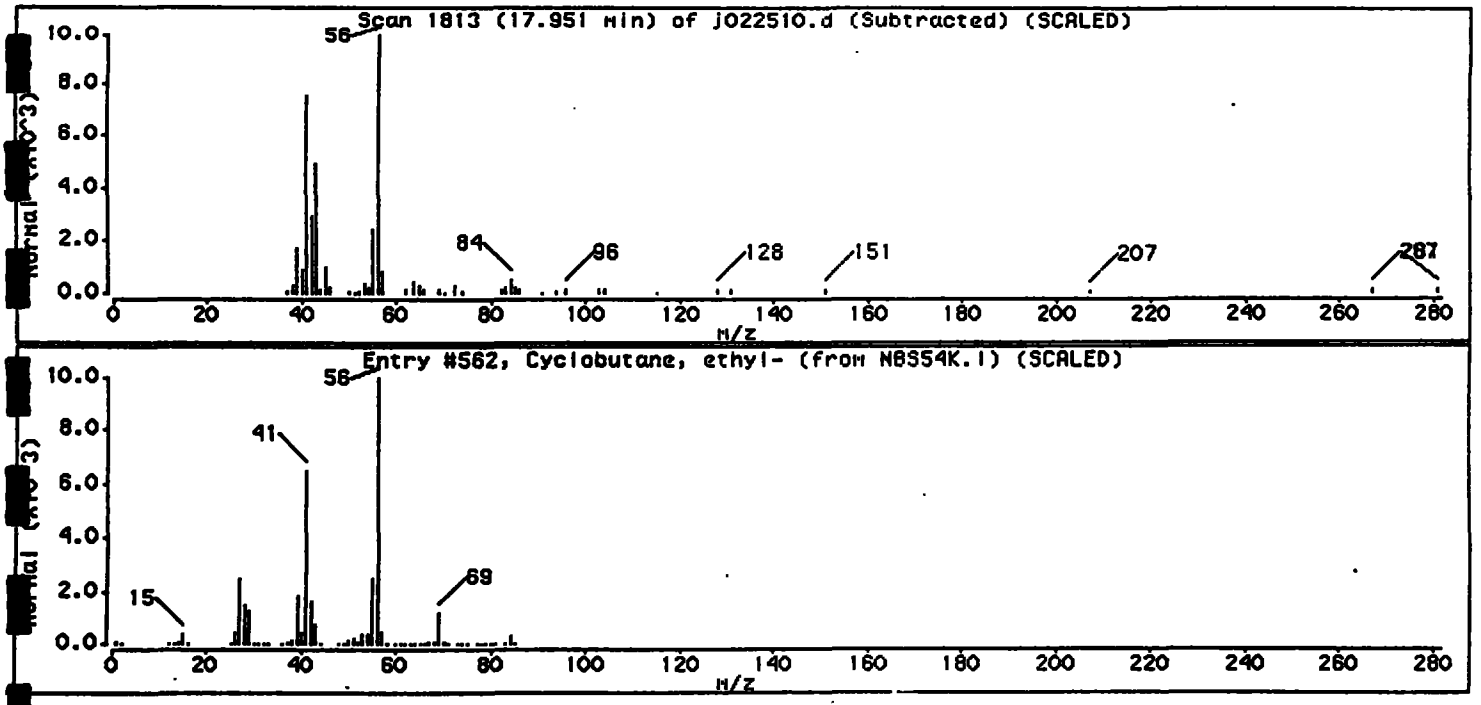


Data File: /chem/msdj.i/j-25feb.b/j022510.d
Date : 25-FEB-1997 15:48
Instrument: msdj.i
Client ID: 021597D1
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetic acid	64-19-7	NBS54K.I	113	83

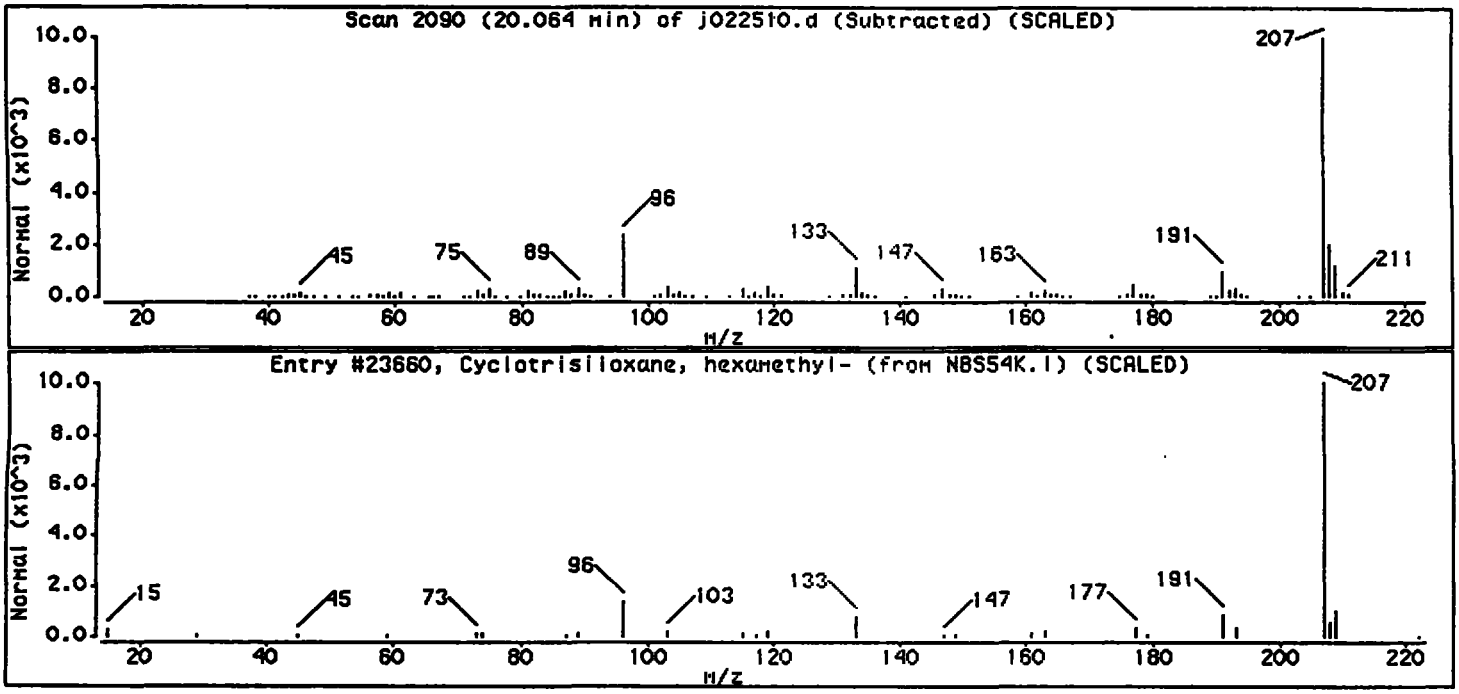


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclobutane, ethyl-	4806-61-5	NBS54K.I	562	59

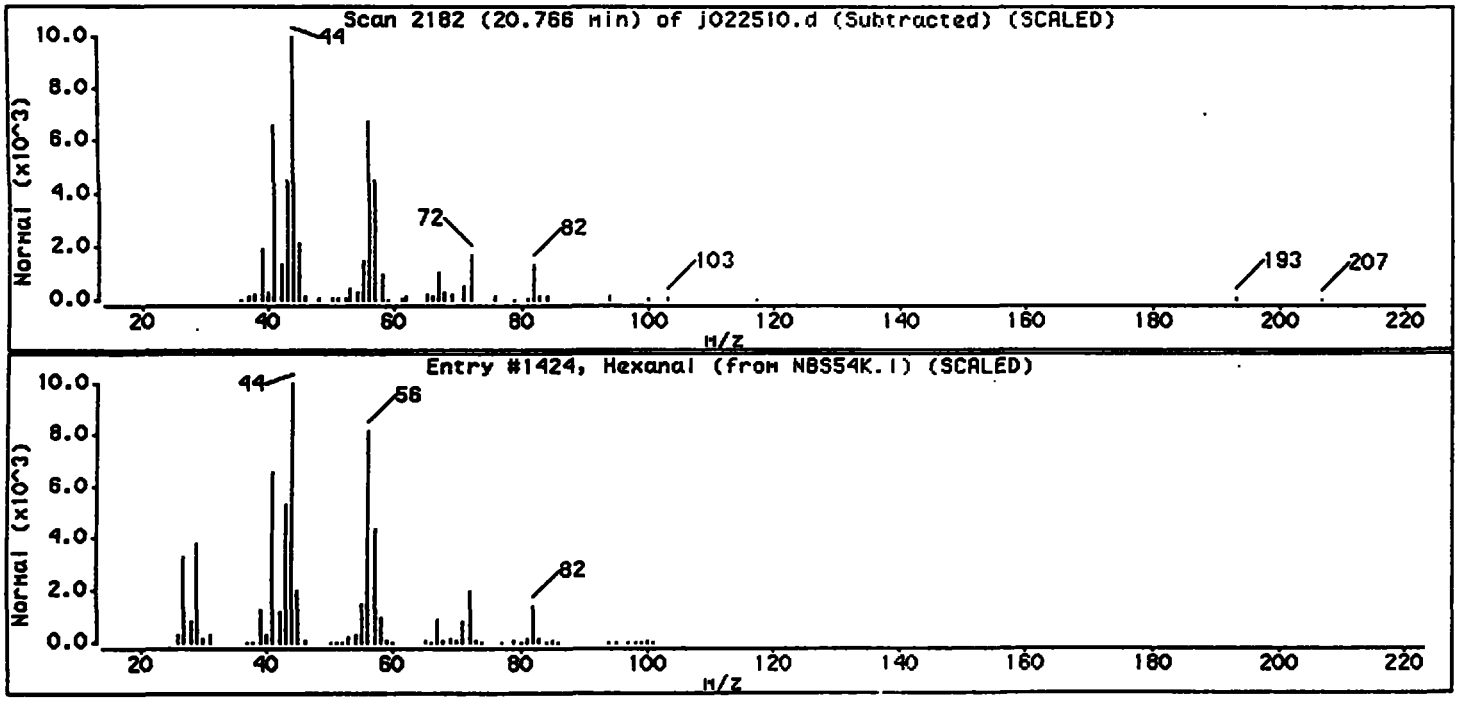


Data File: /chem/msdj.i/j-25feb.b/j022510.d
Date : 25-FEB-1997 15:48
Instrument: msdj.i
Client ID: 021597D1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS54K.I	23660	64

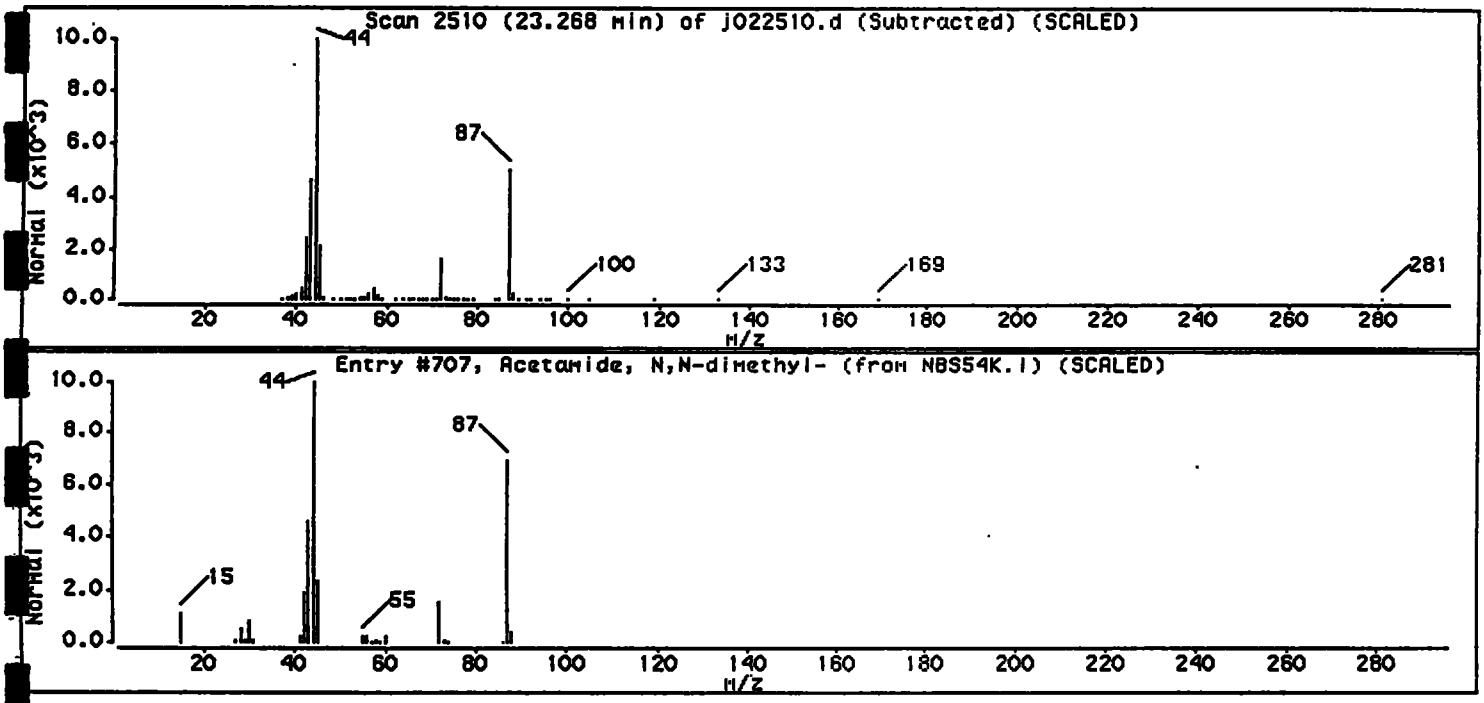


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexanal	66-25-1	NBS54K.I	1424	58

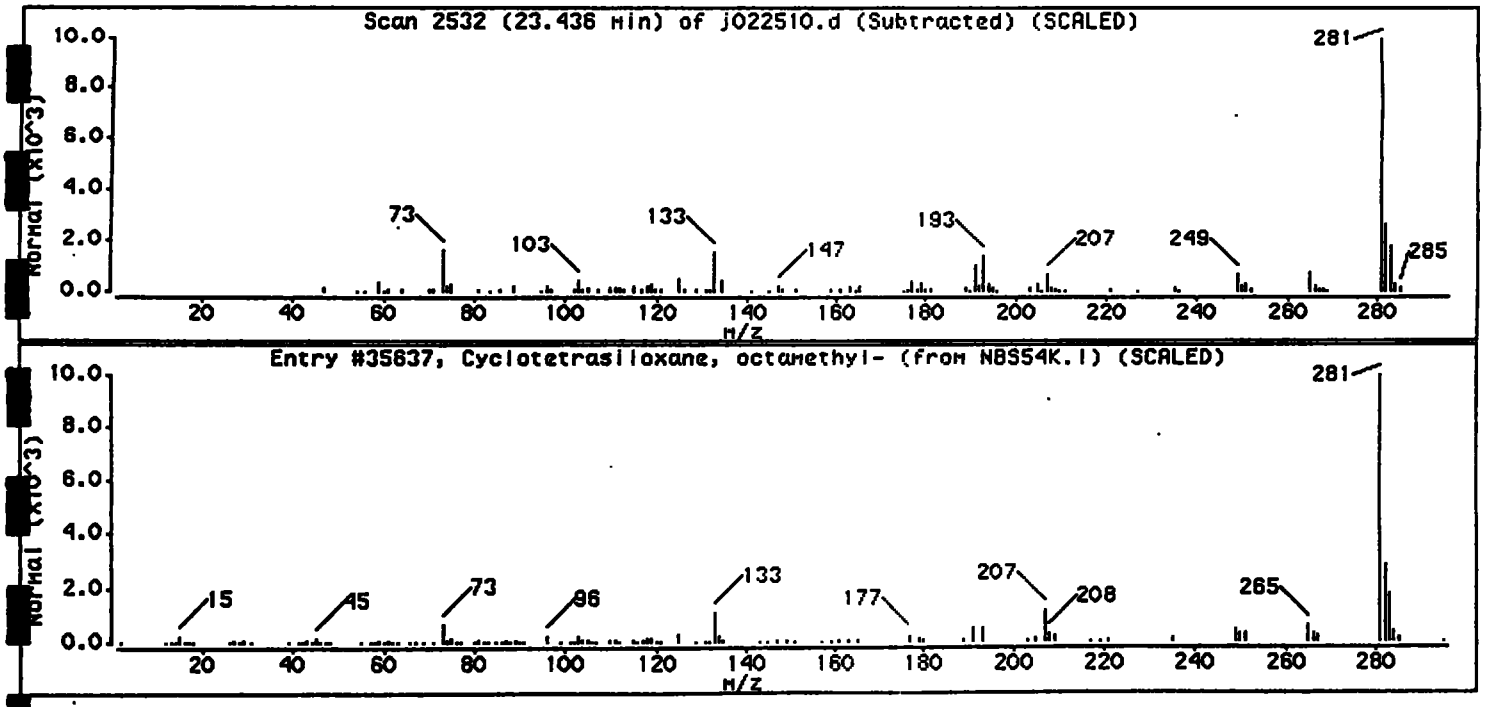


Data File: /chem/msdj.i/j-25feb.b/j022510.d
Date : 25-FEB-1997 15:48
Instrument: msdj.i
Client ID: 021597D1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetamide, N,N-dimethyl-	127-19-5	NBS54K.I	707	90

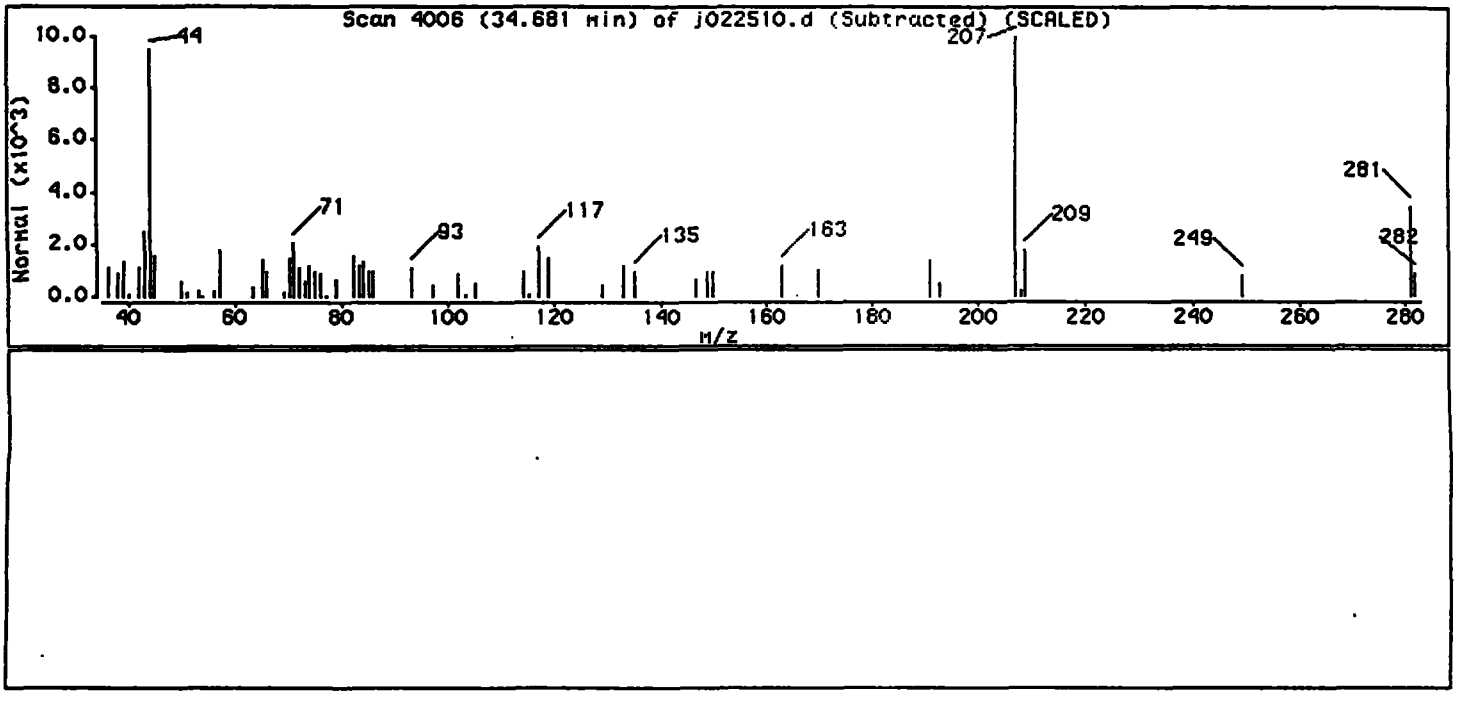


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS54K.I	35637	64



Data File: /chem/msdj.i/j-25feb.b/j022510.d
Date : 25-FEB-1997 15:48
Instrument: msdj.i
Client ID: 02159701
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



AIR TOXICS LTD.

SAMPLE NAME: 021597D1 Duplicate

ID#: 9702139-02AA

EPA METHOD TO-14 GC/MS Full Scan

File Name:	102511	Date of Collection: 2/15/97
Dil. Factor:	1.58	Date of Analysis: 2/25/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.79	Not Detected
cis-1,2-Dichloroethene	0.16	Not Detected
1,1,1-Trichloroethane	0.16	Not Detected
Benzene	0.16	0.57
1,2-Dichloroethane	0.16	Not Detected
Trichloroethene	0.16	Not Detected
1,2-Dichloropropane	0.16	Not Detected
Toluene	0.16	0.51
Tetrachloroethene	0.16	Not Detected
Chlorobenzene	0.16	Not Detected
Ethyl Benzene	0.16	Not Detected
m,p-Xylene	0.16	Not Detected
o-Xylene	0.16	Not Detected
Styrene	0.16	Not Detected
Acetone	0.79	8.0
Carbon Disulfide	0.79	Not Detected
trans-1,2-Dichloroethene	0.79	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.79	1.8

Container Type: 6 Liter Summa Canister

Surrogates:	% Recovery	Method Limits
Octafluorotoluene	106	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	112	70-130

Data File: /chem/msdj.i/j-25feb.b/j022511.d
Report Date: 26-Feb-1997 09:10

MH 2/26/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-25feb.b/j022511.d
Lab Smp Id: 9702139-02AA
Inj Date : 25-FEB-1997 16:36
Operator : MH
Smp Info : 500mL Can#12004 021597D1
Misc Info : 4.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 15:32 mhe
Cal Date : 09-JAN-1997 12:48
Als bottle: 1
Dil Factor: 1.580
Integrator: HP RTE
Target Version: 3.12
Concentration Formula: Uf * Vf

Client Smp ID: 021597D1 Dup.

Inst ID:. msdj.i

Quant Type: ISTD
Cal File: j010909.d

Compound Sublist: Parsons.sub
Sample Matrix: AIR

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

REVIEWED BY
FEB 2 6 1997
FRANCISCO AYALA

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.432	16.358 (1.000)	130	193213	5.0			100.00	9015
16.432	16.358 (0.000)	128	42528			28.11- 128.11	22.01	
16.432	16.358 (0.000)	49	111664			130.70- 230.70	57.79	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.944	16.892 (1.031)	217	483935	5.4	5.4		100.00	8075
16.944	16.892 (0.000)	186	94632			13.05- 113.05	19.55	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.752	17.700 (1.000)	114	877017	5.0			100.00	9325
17.752	17.700 (0.000)	88	50128			0.00- 68.37	5.72	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.766	19.730 (1.113)	98	865219	5.4	5.4		100.00	9912
19.766	19.730 (0.000)	70	33467			0.00- 63.02	3.87	
19.766	19.730 (0.000)	100	158326			15.19- 115.19	18.30	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.834	21.790 (1.000)	117	824158	5.0			100.00	9807
21.834	21.790 (0.000)	82	139754			10.83- 110.83	16.96	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 65 Bromofluorobenzene					CAS #: 460-00-4			
23.665	23.621 (1.084)	95	722156	5.6	5.6		100.00	7996
23.665	23.621 (0.000)	174	91432			7.77- 107.77	12.66	
23.665	23.621 (0.000)	176	89536			7.57- 107.57	12.40	
16 Acetone					CAS #: 67-64-1			
13.274	13.092 (0.808)	43	388949	5.1	8.0		100.00	
13.274	13.092 (0.808)	58	119392			0.00- 79.57	30.70	
28 2-Butanone					CAS #: 78-93-3			
16.081	15.991 (0.979)	72	24300	1.1	1.8		100.00	7653
16.081	15.991 (0.000)	43	29228			439.21- 539.21	120.28	
16.081	15.991 (0.000)	57	1948			0.00- 83.45	8.02	
37 Benzene					CAS #: 71-43-2			
17.317	17.250 (0.976)	78	61062	0.36	0.57		100.00	9220
17.317	17.250 (0.000)	77	4041			0.00- 74.19	6.62	
51 Toluene					CAS #: 108-88-3			
19.866	19.821 (1.119)	92	32666	0.32	0.51		100.00	7857
19.866	19.821 (0.000)	91	15198			116.37- 216.37	46.53	

Audit History For: /chem/msdj.i/j-25feb.b/j022511.d

Change Date: 25-Feb-97 17:02
Change Made by: Automation

  Parameter: ChemLan Data Transfer
  Old Value:
  New Value:
  Reason For Change: MS Data from Instrument: msdj.i

Change Date: 25-Feb-97 17:02
Change Made by: Automation

  Parameter: Target Processing
  Old Value:
  New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
  Reason For Change: Complete Target Compound Processing

Change Date: 25-Feb-97 17:06
Change Made by: mhe

  Parameter: date
  Old Value: 25-FEB-97 16:36
  New Value: 25-FEB-1997 16:36
  Reason For Change: N/A

Change Date: 25-Feb-97 17:06
Change Made by: mhe

  Parameter: Misc Information
  Old Value:
  New Value: 4.5"Hg-5.0psi Parsons
  Reason For Change: N/A

Change Date: 25-Feb-97 17:06
Change Made by: mhe

  Parameter: Compound Sublist
  Old Value: AT.sub
  New Value: Parsons.sub
  Reason For Change: N/A

Change Date: 25-Feb-97 17:06
Change Made by: mhe

  Parameter: Sample Info
  Old Value: 9702139-02AA 500mL Can#12004 4.5"-5psi Parsons 021597D1D
  New Value: 500mL Can#12004 021597D1
  Reason For Change: N/A

Change Date: 25-Feb-97 17:06
Change Made by: mhe

  Parameter: Lab ID
  Old Value:
  New Value: 9702139-02AA
  Reason For Change: N/A

Change Date: 25-Feb-97 17:06
Change Made by: mhe

Parameter: Client ID
Old Value: VSTD150
New Value: 021597D1 Dup.
Reason For Change: N/A

Change Date: 25-Feb-97 17:06
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 26-Feb-97 09:08
Change Made by: mhe

Parameter: Best Hit for Carbon Disulfide changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:08
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:08
Change Made by: mhe

Parameter: Best Hit for Methylene Chloride changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:08
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:08
Change Made by: mhe

Parameter: Best Hit for 1,1,1-Trichlorethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:08
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:

Reason For Change: N/A

Change Date: 26-Feb-97 09:08
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #2
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:08
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:09
Change Made by: mhe

Parameter: Manual reintegration of Ethyl Benzene (Signal 1)
Old Value: Old Area/Time: 8326 / 22.12
New Value: New Area/Time: 3317 / 21.97
Reason For Change: N/A

Change Date: 26-Feb-97 09:09
Change Made by: mhe

Parameter: Best Hit for Ethyl Benzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:09
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:09
Change Made by: mhe

Parameter: Best Hit for o-Xylene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:09
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:09
Change Made by: mhe

Parameter: Best Hit for m,p-Xylene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 26-Feb-97 09:09
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 26-Feb-97 09:09
Change Made by: mhe

Parameter: Best Match for Unknown compound at 6.430 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:10
Change Made by: mhe

Parameter: Best Match for Unknown compound at 10.871 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:10
Change Made by: mhe

Parameter: Best Match for Unknown compound at 16.196 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:10
Change Made by: mhe

Parameter: Best Match for Unknown compound at 23.276 min. changed.
Old Value: Old match: Acetamide, N,N-dimethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:10
Change Made by: mhe

Parameter: Best Match for Unknown compound at 23.436 min. changed.
Old Value: Old match: Cyclotetrasiloxane, octamethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 26-Feb-97 09:10
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m

Reason For Change: Quantitation

MH 2/26/97

Data File: /chem/msdj.i/j-25feb.b/j022511.d
Report Date: 25-Feb-1997 17:06

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-25feb.b/j022511.d
Lab Smp Id: 9702139-02AA Client Smp ID: 021597D1 Dup.
Inj Date : 25-FEB-1997 16:36
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#12004 021597D1
Misc Info : 4.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 15:32 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.580
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.432	16.358 (1.000)	130	193213	5.0			100.00	9015
16.432	16.358 (0.000)	128	42528			28.11- 128.11	22.01	
16.432	16.358 (0.000)	49	111664			130.70- 230.70	57.79	
35 Octafluorotoluene					CAS #: 434-64-0			
16.944	16.892 (1.031)	217	483935	5.4	5.4		100.00	8075
16.944	16.892 (0.000)	186	94632			13.05- 113.05	19.55	
40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.752	17.700 (1.000)	114	877017	5.0			100.00	9325
17.752	17.700 (0.000)	88	50128			0.00- 68.37	5.72	
49 Toluene-d8					CAS #: 2037-26-5			
19.766	19.730 (1.113)	98	865219	5.4	5.4		100.00	9912
19.766	19.730 (0.000)	70	33467			0.00- 63.02	3.87	
19.766	19.730 (0.000)	100	158326			15.19- 115.19	18.30	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.834	21.790 (1.000)	117	824158	5.0			100.00	9807
21.834	21.790 (0.000)	82	139754			10.83- 110.83	16.96	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 58 Chlorobenzene-d5 (continued)								
22.261	21.790 (1.000)	117	987	5.0			100.00	8224(Q)
22.261	21.790 (0.000)	82	63			10.83- 110.83	6.38	
$ 65 Bromofluorobenzene					CAS #: 460-00-4			
23.665	23.621 (1.084)	95	722156	5.6	5.6		100.00	7996
23.665	23.621 (0.000)	174	91432			7.77- 107.77	12.66	
23.665	23.621 (0.000)	176	89536			7.57- 107.57	12.40	
16 Acetone					CAS #: 67-64-1			
13.274	13.092 (0.808)	43	388949	5.1	8.0		100.00	
13.274	13.092 (0.808)	58	119392			0.00- 79.57	30.70	
17 Carbon Disulfide					CAS #: 75-15-0			
13.480	13.207 (0.820)	76	421.15	0.29	0.46 <		100.00	7632
20 Methylene Chloride					CAS #: 75-09-2			
14.075	13.932 (0.857)	84	4058	0.092	0.14 <		100.00	2707(aQ)
14.075	13.932 (0.000)	49	1749			102.14- 202.14	43.10	
14.075	13.932 (0.000)	51	656			0.00- 96.86	16.17	
28 2-Butanone					CAS #: 78-93-3			
16.081	15.991 (0.979)	72	24300	1.1	1.8		100.00	7653
16.081	15.991 (0.000)	43	29228			439.21- 539.21	120.28	
16.081	15.991 (0.000)	57	1948			0.00- 83.45	8.02	
15.814	15.991 (0.962)	72	69017	3.2	5.1		100.00	4591(Q)
15.814	15.991 (0.000)	43	31042			439.21- 539.21	44.98	
15.814	15.991 (0.000)	57	9454			0.00- 83.45	13.70	
33 1,1,1-Trichloroethane					CAS #: 71-55-6			
16.799	16.724 (1.022)	97	8008	0.089	0.14 <		100.00	7286(a)
16.799	16.724 (0.000)	99	1645			15.82- 115.82	20.54	
37 Benzene					CAS #: 71-43-2			
17.317	17.250 (0.976)	78	61062	0.36	0.57		100.00	9220
17.317	17.250 (0.000)	77	4041			0.00- 74.19	6.62	
38 1,2-Dichloroethane					CAS #: 107-06-2			
17.752	17.258 (1.000)	62	34645	0.53	0.84		100.00	3513(Q)
17.752	17.258 (0.000)	64	10079			0.00- 82.38	29.09	
17.317	17.258 (0.976)	62	2234	0.034	0.054		100.00	3380(a)
17.317	17.258 (0.000)	64	276			0.00- 82.38	12.35	
51 Toluene					CAS #: 108-88-3			
19.866	19.821 (1.119)	92	32666	0.32	0.51		100.00	7857

Data File: /chem/msdj.i/j-25feb.b/j022511.d
Report Date: 25-Feb-1997 17:06

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
51 Toluene (continued)								
19.866	19.821 (0.000)	91	15198			116.37- 216.37	46.53	
60 Ethyl Benzene					CAS #: 100-41-4			
22.124	21.919 (1.013)	106	8326	0.095	0.15		100.00	(aQ)
22.124	21.919 (1.013)	91	18848			296.25- 396.25	226.38	
61 m,p-Xylene					CAS #: 108-38-3			
22.124	22.080 (1.013)	106	8327	0.098	0.15 <		100.00	(a)
22.124	22.080 (1.013)	91	18595			164.96- 264.96	223.31	
62 o-Xylene					CAS #: 95-47-6			
22.772	22.736 (1.043)	106	3490	0.066	0.10 <		100.00	8137(a)
22.772	22.736 (0.000)	91	1815			172.77- 272.77	52.01	

QC Flag Legend

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

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-25feb.b/j022511.d
Lab Smp Id: 9702139-02AA Client Smp ID: 021597D1 Dup.
Inj Date : 25-FEB-1997 16:36
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#12004 021597D1
Misc Info : 4.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 15:32 mhe
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.580 Target Version: 3.12
Integrator: HP RTE Compound Sublist: Parsons.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

ISTD		RT	AREA	AMOUNT
* 30	Bromochloromethane	16.432	1267143	5.000
* 40	1,4-Difluorobenzene	17.752	2138580	5.000
* 58	Chlorobenzene-d5	21.834	2784777	5.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
6.430	4652214	18.4	29.0	0		0	30
Unknown				CAS #:			
8.223	330705	1.3	2.1	0		0	30
Butane				CAS #: 106-97-8			
9.131	381883	1.5	2.4	64	NBS54K.l	98	30

Data File: /chem/msdj.i/j-25feb.b/j022511.d
Report Date: 25-Feb-1997 17:06

RT	AREA	CONCENTRATIONS ON-COL(PPBV)	CONCENTRATIONS FINAL(PPBV)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Acetaldehyde					CAS #: 75-07-0		
9.841	458513	1.8	2.8	80	NBS54K.l	37	30
Unknown					CAS #:		
10.871	99158	0.39	0.62	0		0	30
Butanal					CAS #: 123-72-8		
15.814	888168	3.5	5.5	91	NBS54K.l	257	30
Unknown					CAS #:		
16.196	233840	0.92	1.4	0		0	30
Pentanal					CAS #: 110-62-3		
18.446	261375	0.61	0.96	56	NBS54K.l	647	40
Heptanal					CAS #: 111-71-7		
22.978	222135	0.40	0.63	50	NBS54K.l	2693	58
Acetamide, N,N-dimethyl-					CAS #: 127-19-5		
23.276	2605055	4.7	7.4	86	NBS54K.l	707	58
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
23.436	540164	0.97	1.5	56	NBS54K.l	35637	58
Unknown					CAS #:		
25.313	157242	0.28	0.45	0		0	58
1-Hexanol, 2-ethyl-					CAS #: 104-76-7		
25.969	208220	0.37	0.59	59	NBS54K.l	4822	58

Data File: /chem/msdj.i/j-25feb.b/j022511.d
Report Date: 25-Feb-1997 17:06

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j022511.d
Lab Smp Id: 9702139-02AA
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-25feb.b/to140109.m
Misc Info: 4.5"Hg-5.0psi Parsons

Calibration Date: 02/25/97
Calibration Time: 1050
Client Smp ID: 021597D1 Dup.
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	221139	132683	309595	193213	-12.63
40 1,4-Difluorobenzene	1000893	600536	1401250	877017	-12.38
58 Chlorobenzene-d5	931057	558634	1303480	824158	-11.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	16.36	15.86	16.86	16.43	0.43
40 1,4-Difluorobenzene	17.71	17.21	18.21	17.75	0.26
58 Chlorobenzene-d5	21.79	21.29	22.29	21.83	0.18

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdj.i/j-25feb.b/j022511.d
Report Date: 25-Feb-1997 17:06

Air Toxics Limited

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 9702139-02AA
Level: LOW
Data Type: MS DATA
SpikeList File:
Method File: /chem/msdj.i/j-25feb.b/to140109.m
Misc Info: 4.5"Hg-5.0psi Parsons

Client SDG: j-25feb
Fraction: VOA
Client Smp ID: 021597D1 Dup.
Operator: MH
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	5.4	108.10	60-140
$ 49 Toluene-d8	5.0	5.4	109.03	60-140
$ 65 Bromofluorobenzene	5.0	5.6	113.16	60-140

2-26-97

0096

Data File: /chem/msdj.i/j-25feb.b/j022511.d
Date : 25-FEB-1997 16:36
Client ID: 021597D1 Dup.
Sample Info: 500mL Can#12004 021597D1

Column phase: RTx-624

Instrument: msdj.i

Operator: MH
Column diameter: 0.58

Data File: /chem/msdj.i/j-25feb.b/j022511.d

Date : 25-FEB-1997 16:36

Client ID: 021597D1 Dup.

Instrument: msdj.i

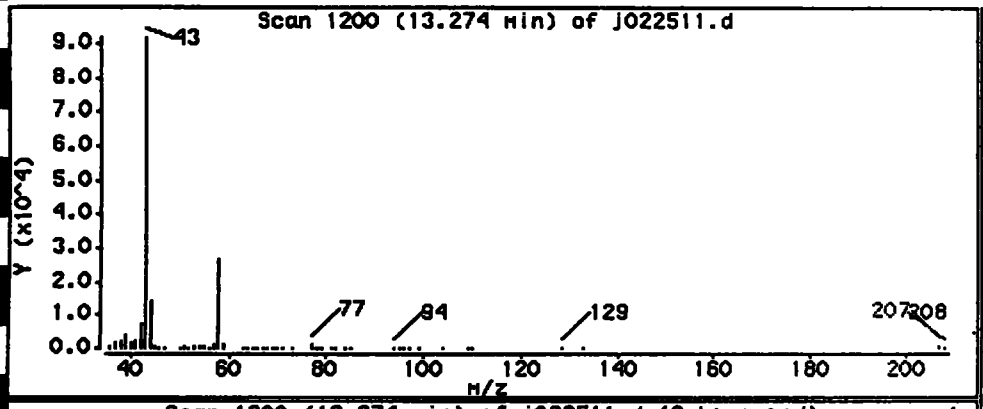
Sample Info: 500mL Can#12004 021597D1

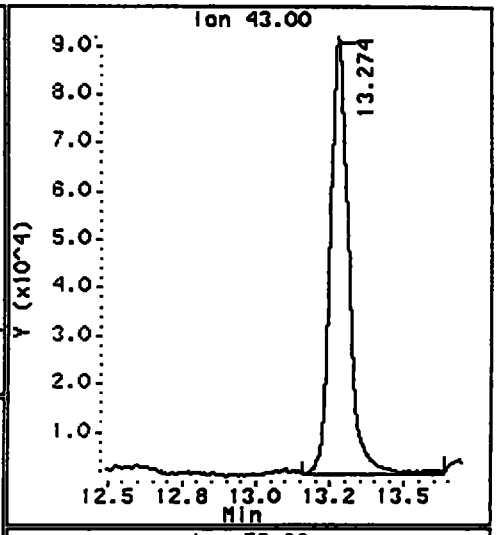
Operator: MH

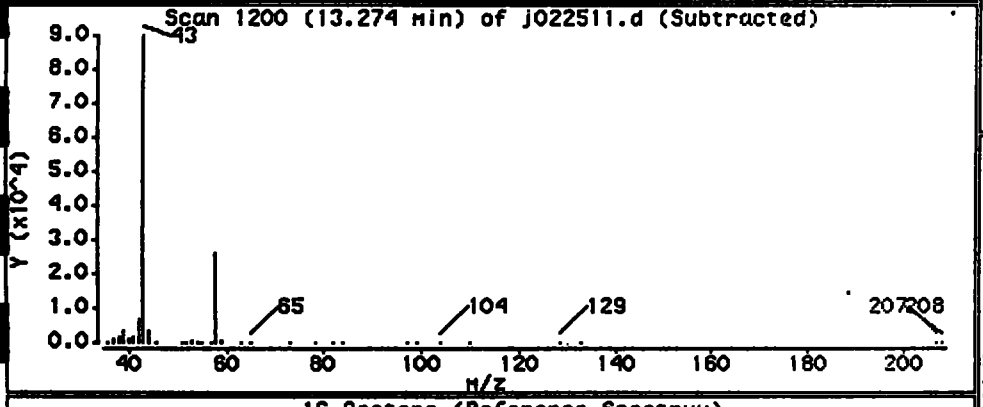
Column phase: RTx-624

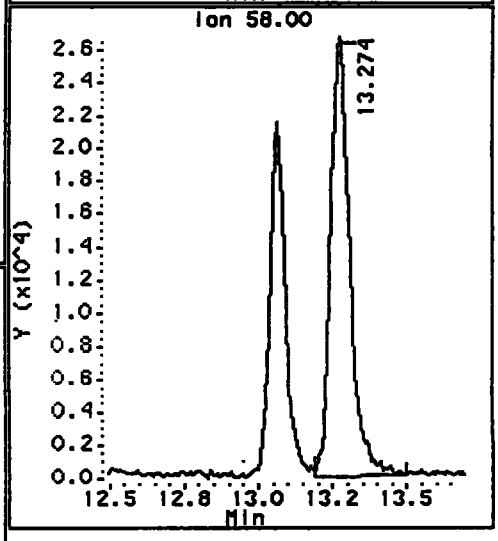
Column diameter: 0.58

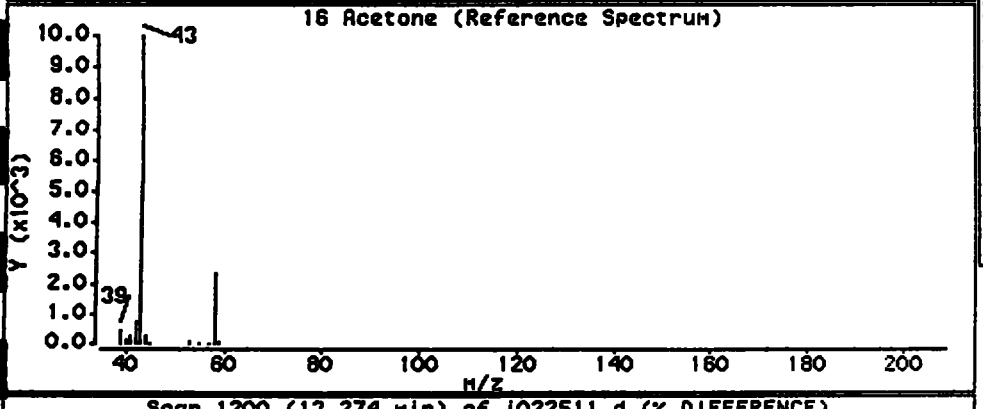
16 Acetone

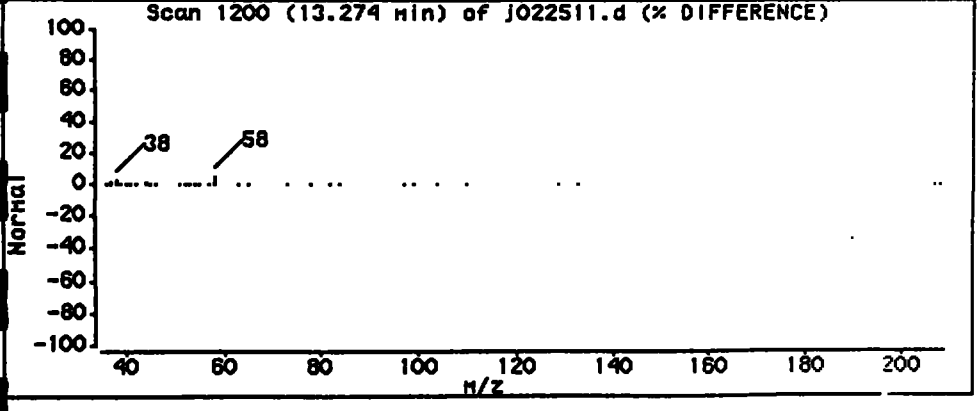












Data File: /chem/msdj.i/j-25feb.b/j022511.d

Date : 25-FEB-1997 16:36

Client ID: 021597D1 Dup.

Instrument: msdj.i

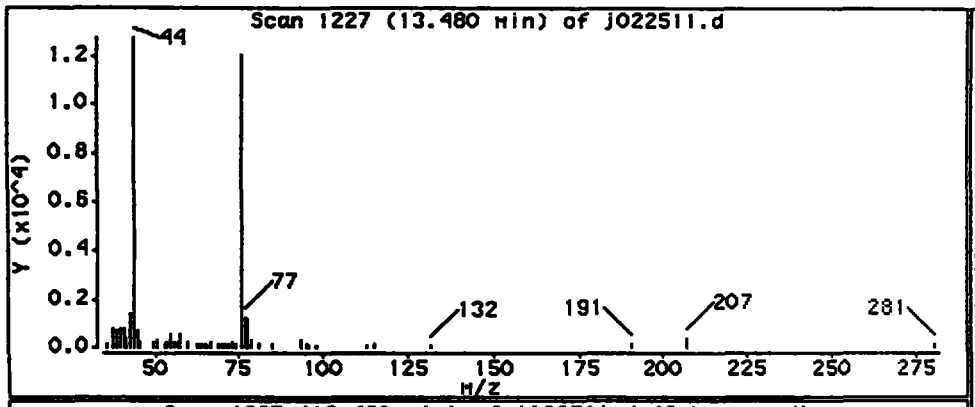
Sample Info: 500mL Can#12004 021597D1

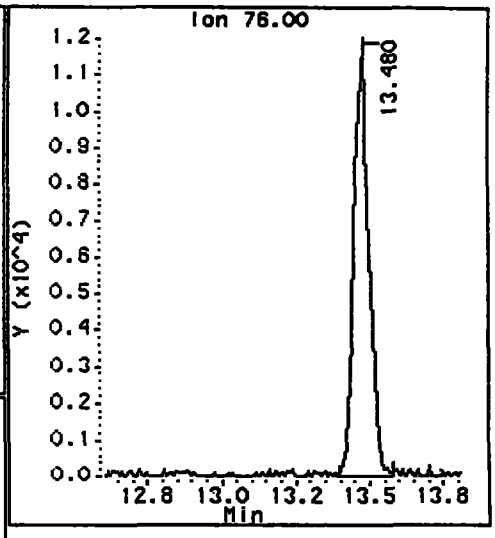
Operator: MH

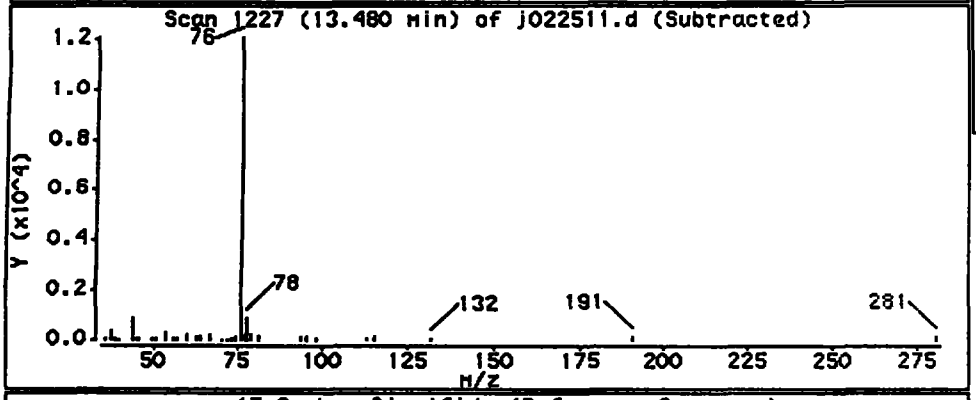
Column phase: RTx-624

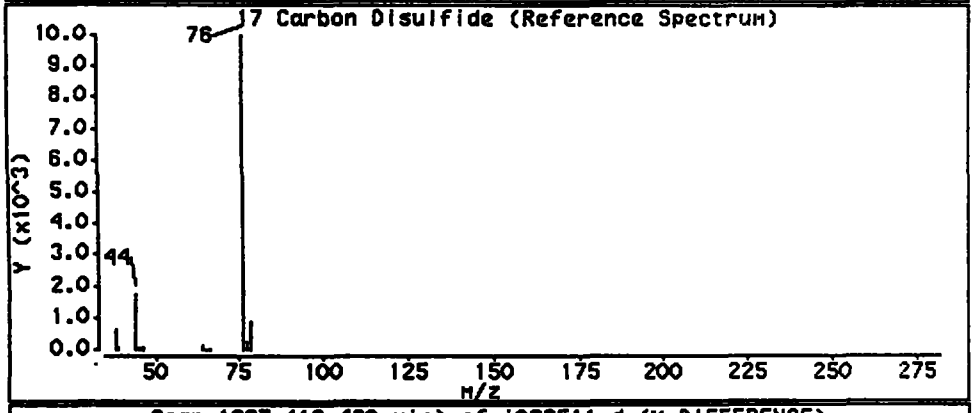
Column diameter: 0.58

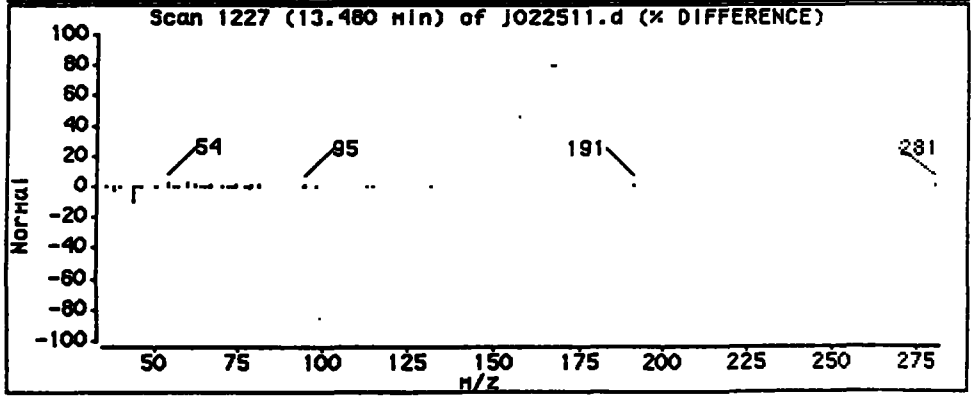
17 Carbon Disulfide











Data File: /chem/msdj.i/j-25feb.b/j022511.d

Date : 25-FEB-1997 16:36

Client ID: 021597D1 Dup.

Instrument: msdj.i

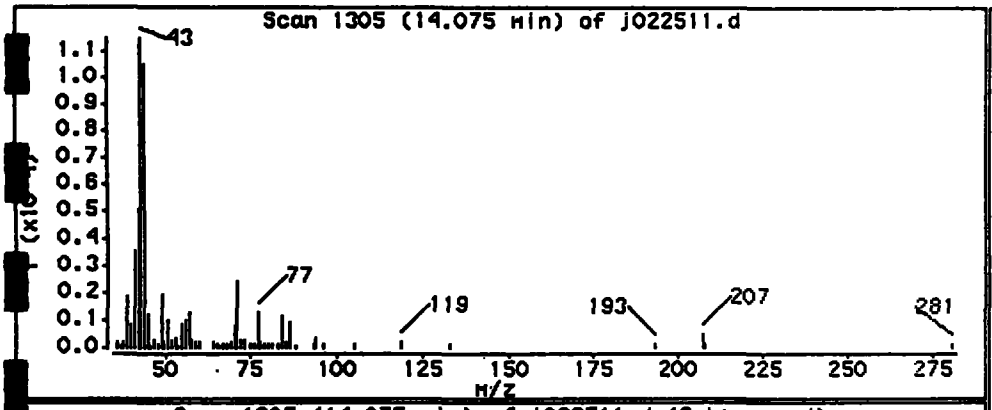
Sample Info: 500mL Can#12004 021597D1

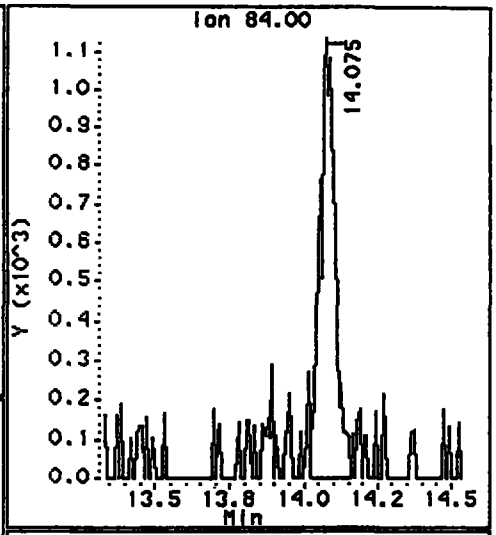
Operator: MH

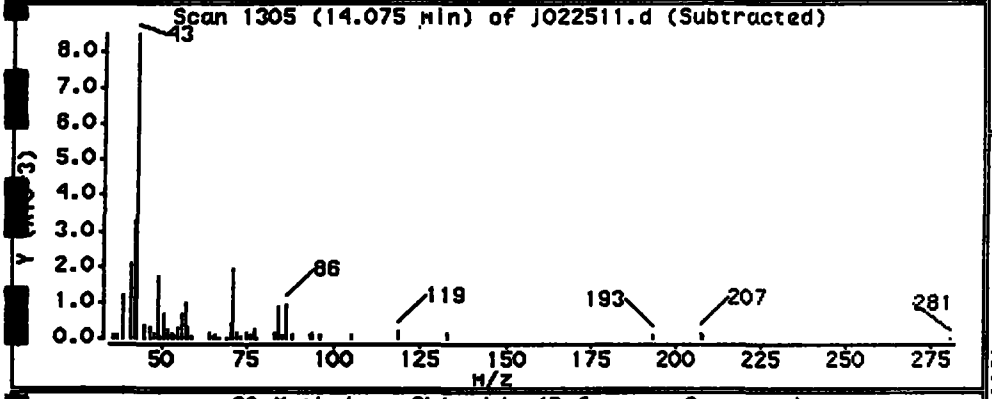
Column phase: RTx-624

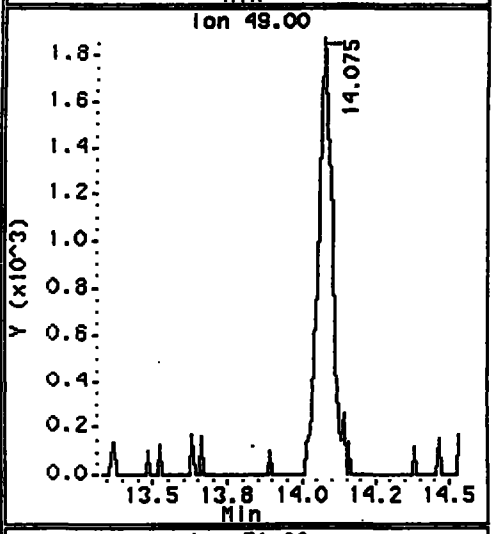
Column diameter: 0.58

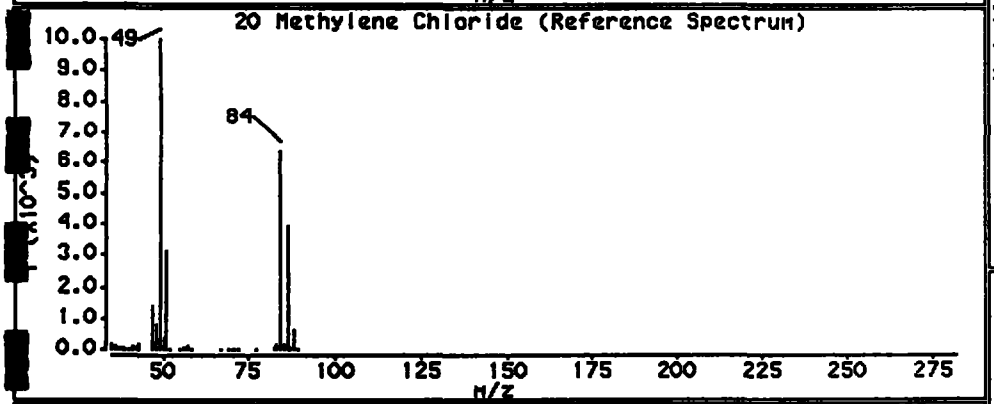
20 Methylene Chloride

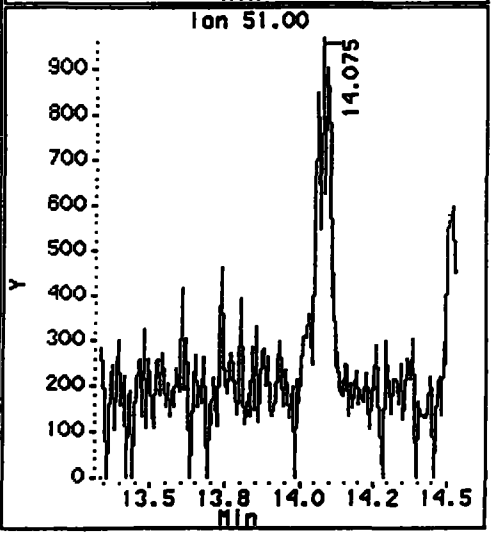


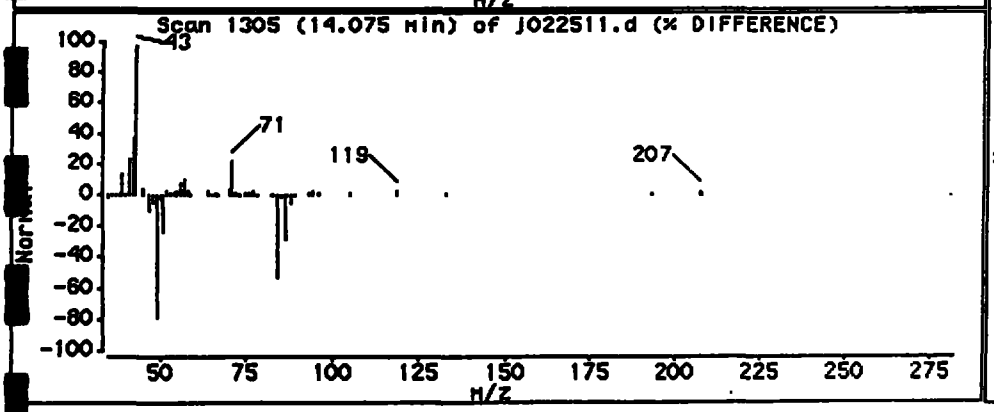












Data File: /chem/msdj.i/j-25feb.b/j022511.d

Date : 25-FEB-1997 16:36

Client ID: 02159701 Dup.

Instrument: msdj.i

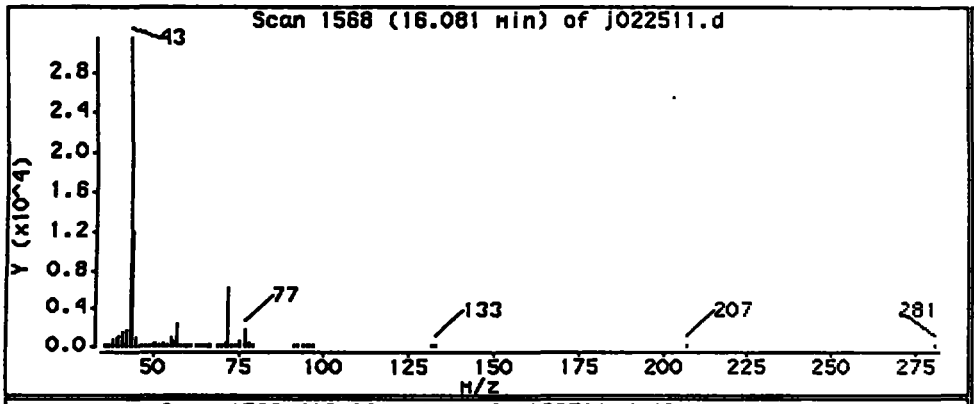
Sample Info: 500mL Can#12004 02159701

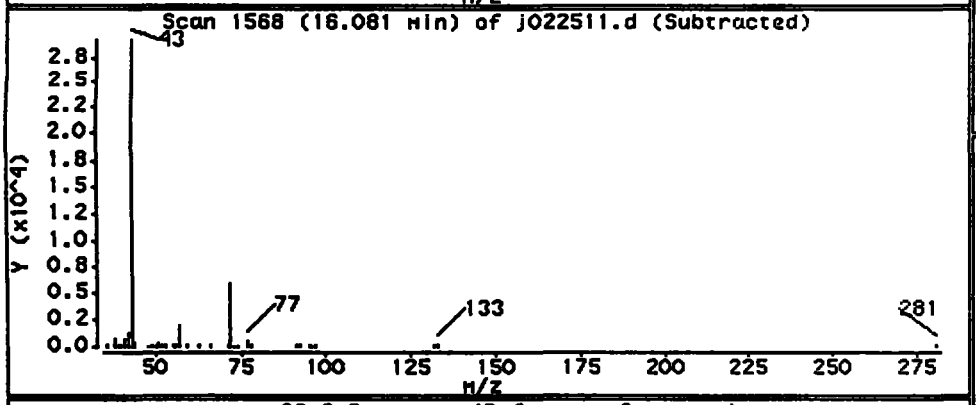
Operator: MH

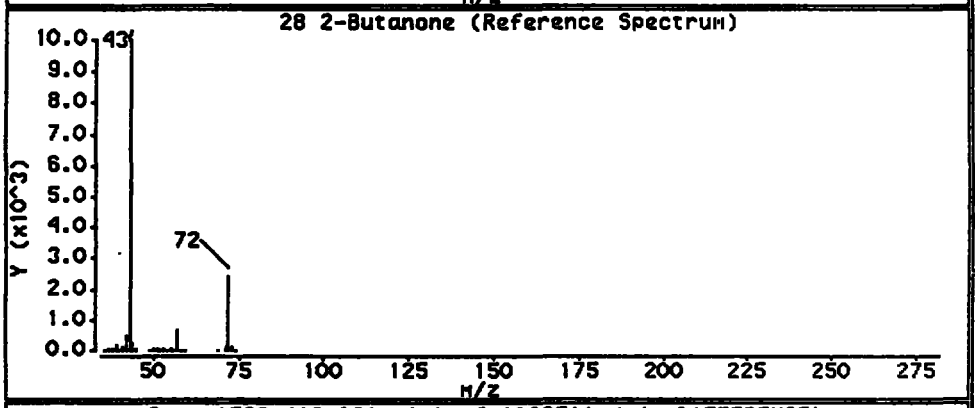
Column phase: RTx-624

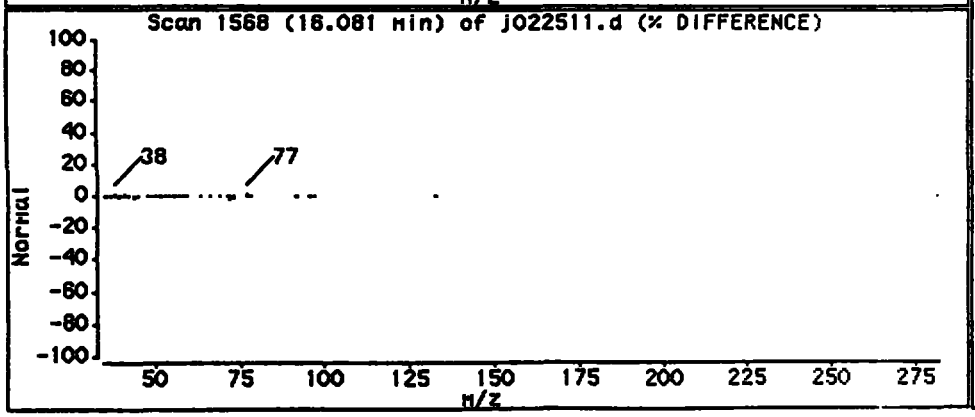
Column diameter: 0.58

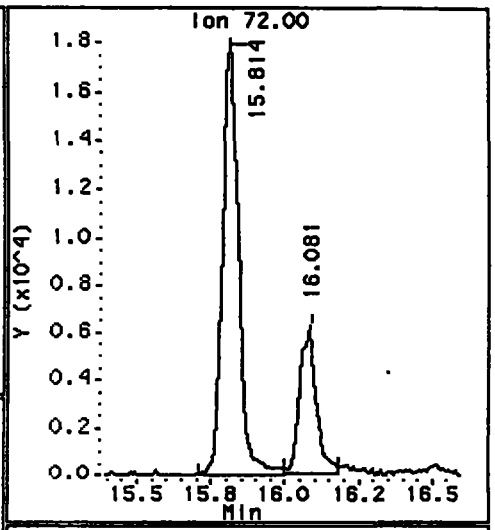
28 2-Butanone

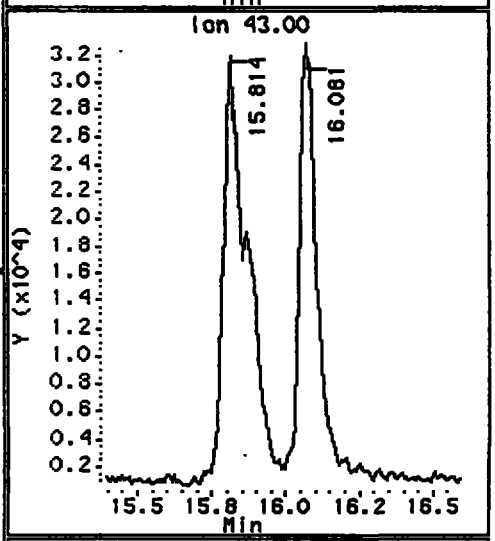


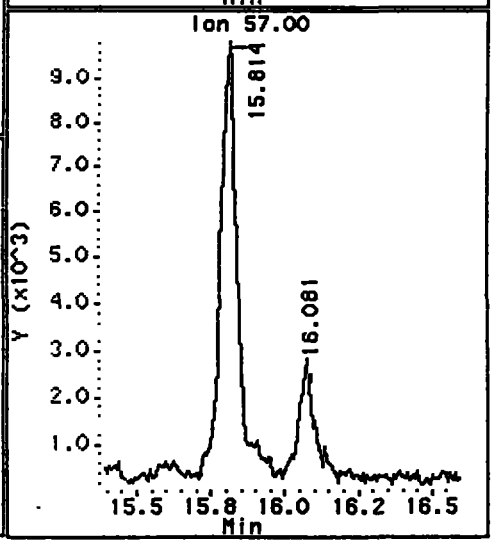












Data File: /chem/msdj.i/j-25feb.b/j022511.d

Date : 25-FEB-1997 16:36

Client ID: 021597D1 Dup.

Instrument: msdj.i

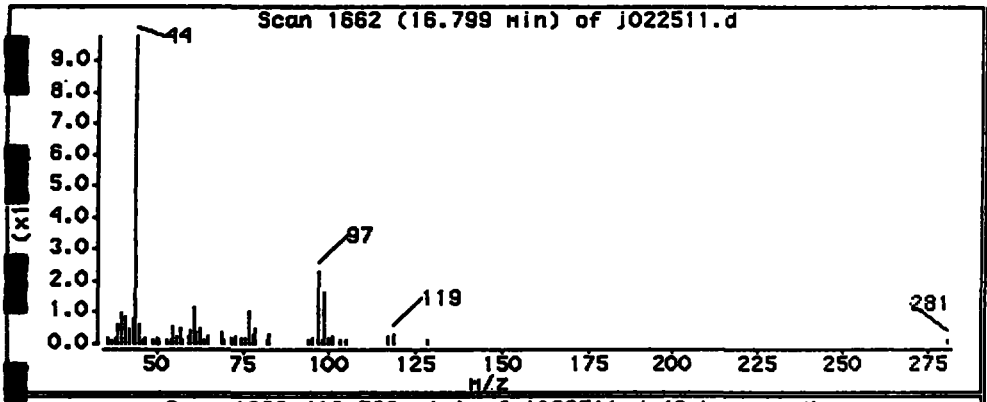
Sample Info: 500mL Can#12004 021597D1

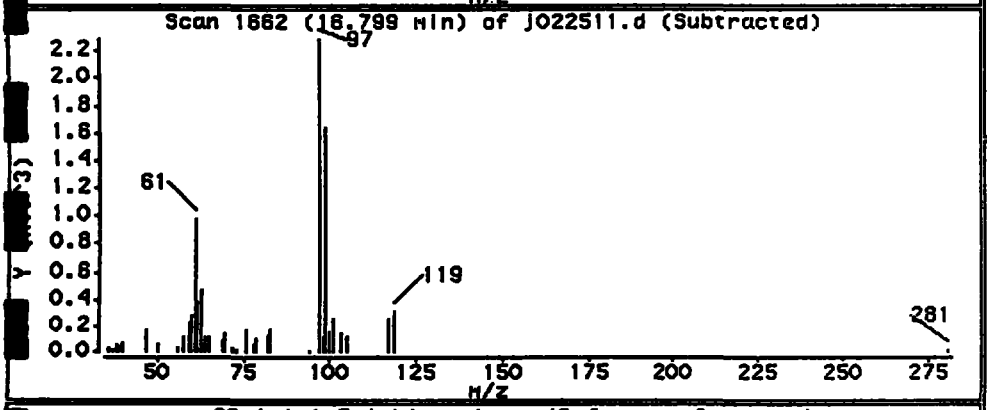
Operator: MH

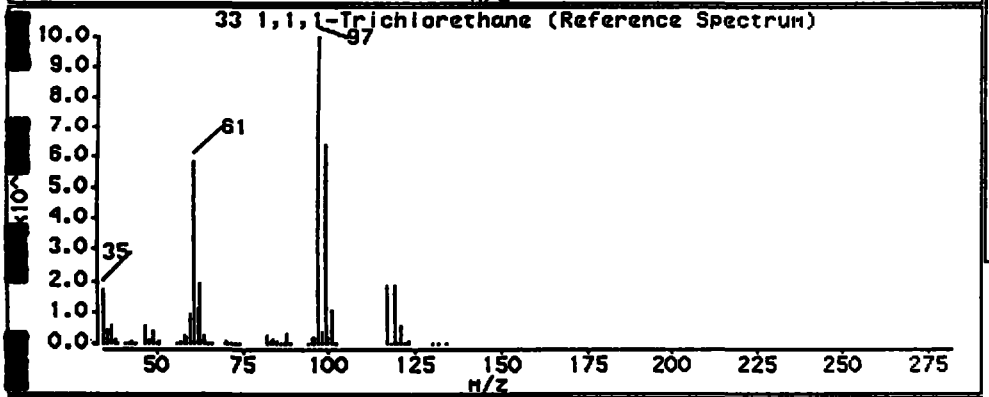
Column phase: RTx-624

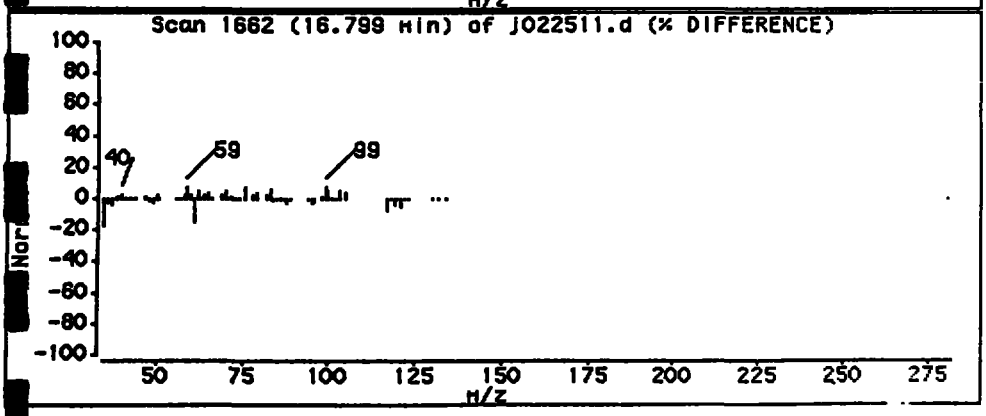
Column diameter: 0.58

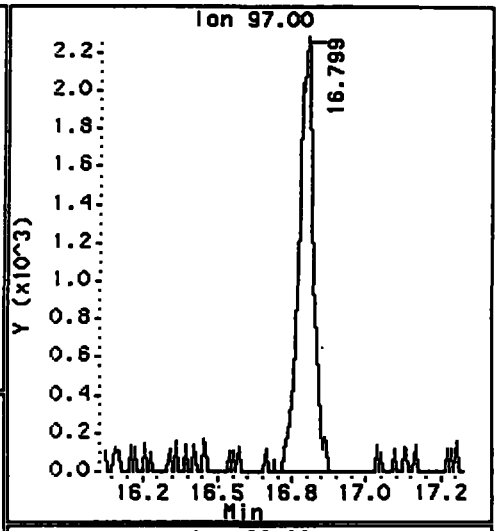
33 1,1,1-Trichlorethane

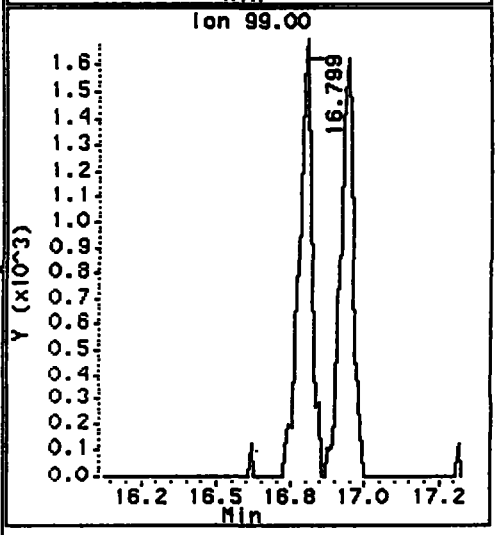












Data File: /chem/msdj.i/j-25feb.b/j022511.d

Date : 25-FEB-1997 16:36

Client ID: 021597D1 Dup.

Instrument: msdj.i

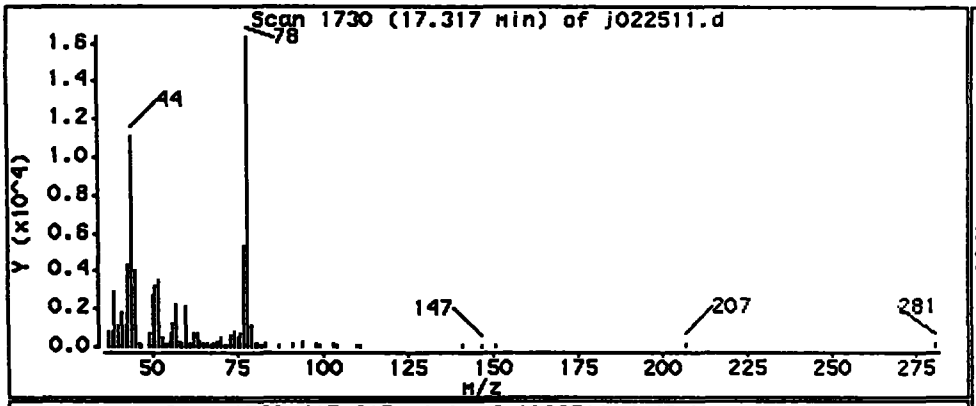
Sample Info: 500mL Can#12004 021597D1

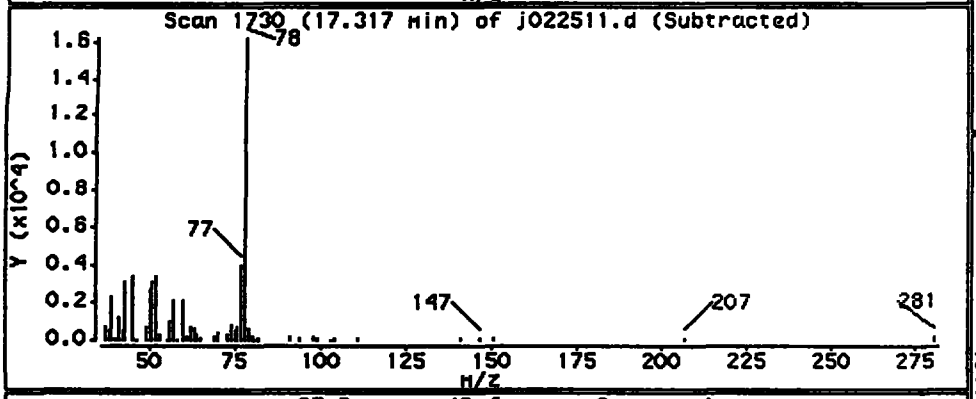
Operator: MH

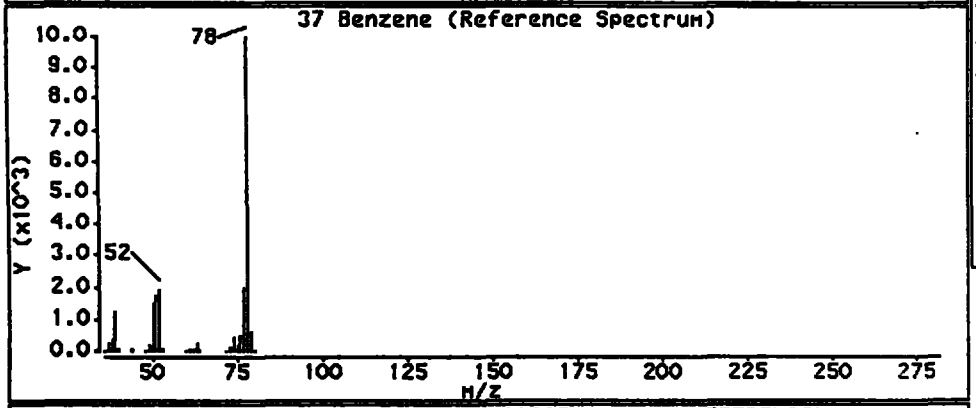
Column phase: RTx-624

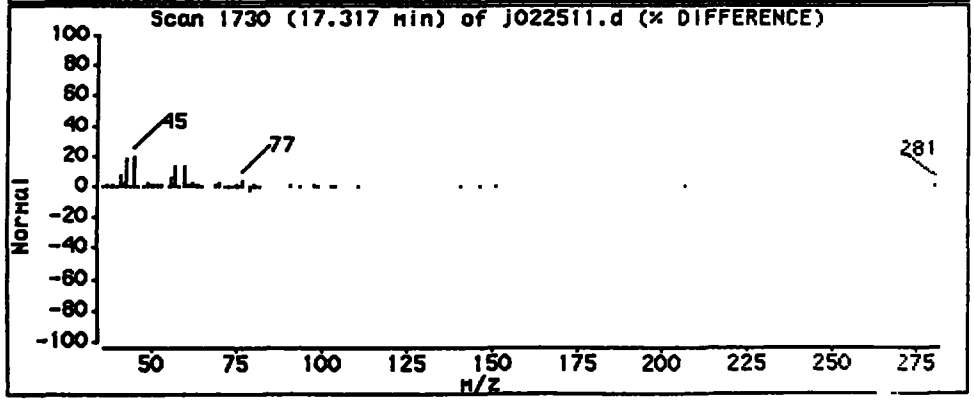
Column diameter: 0.58

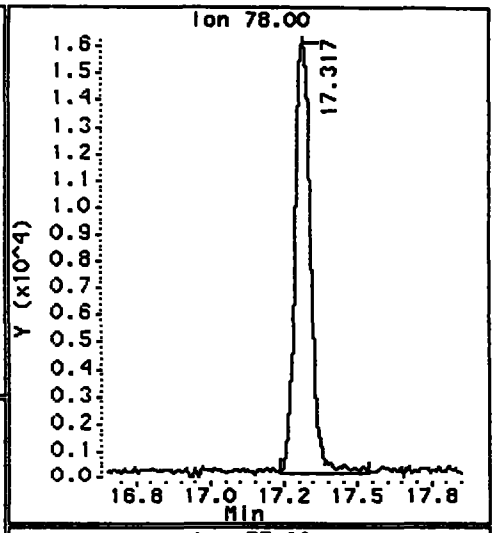
37 Benzene

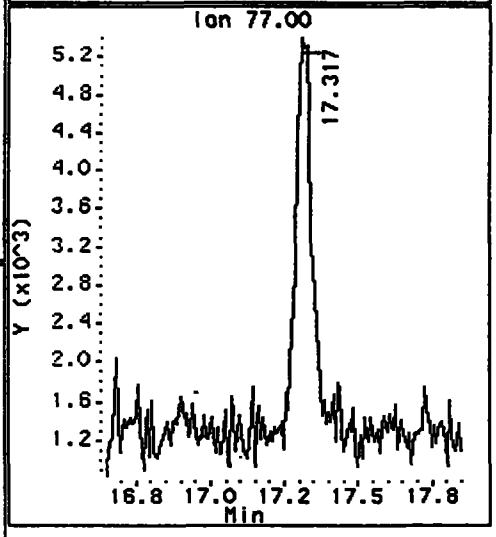












Data File: /chem/msdj.i/j-25feb.b/j022511.d

Date : 25-FEB-1997 16:38

Client ID: 021597D1 Dup.

Instrument: msdj.i

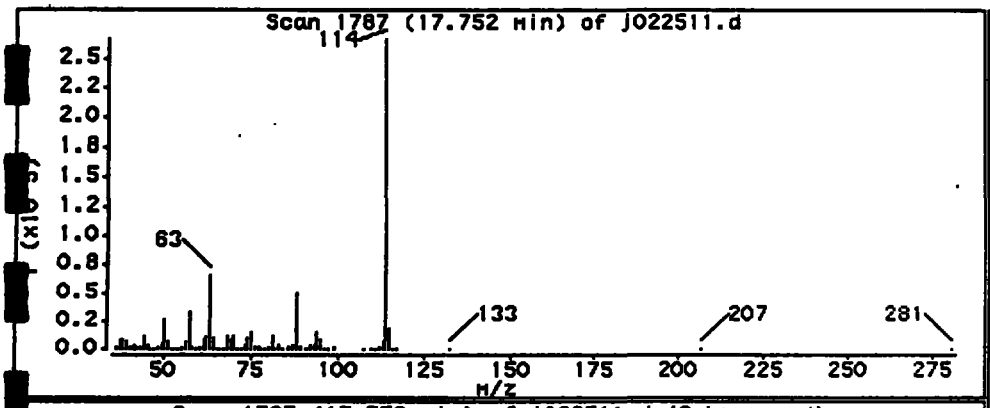
Sample Info: 500mL Can#12004 021597D1

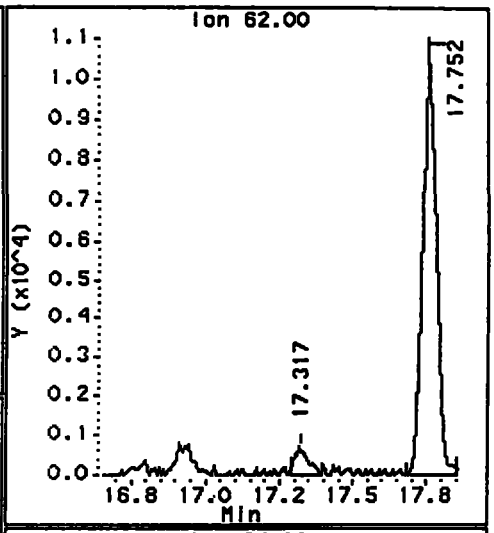
Operator: MH

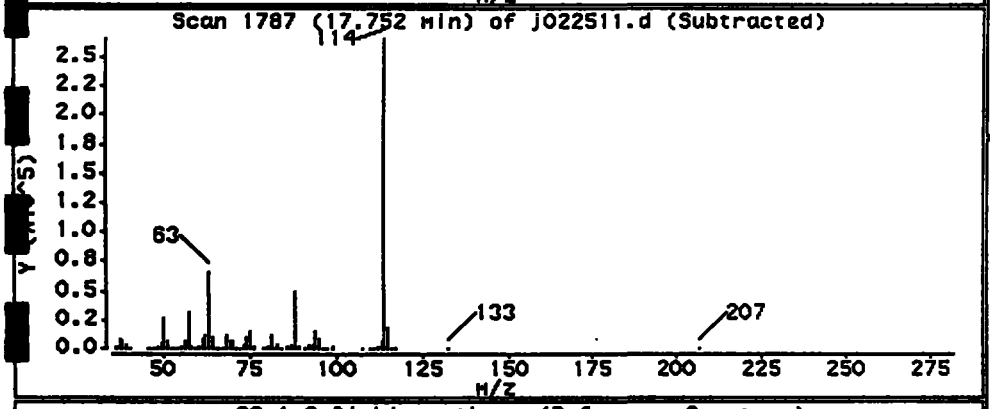
Column phase: RTx-624

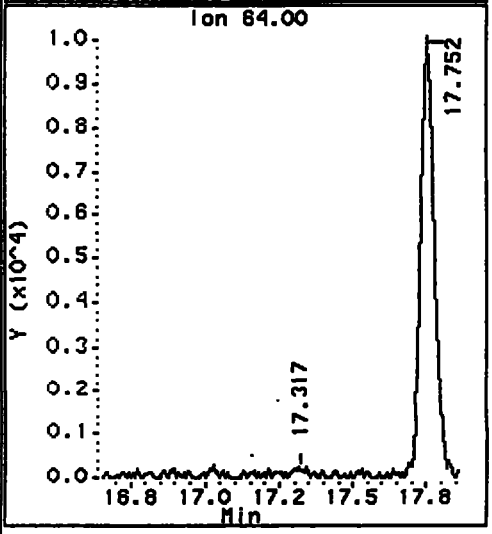
Column diameter: 0.58

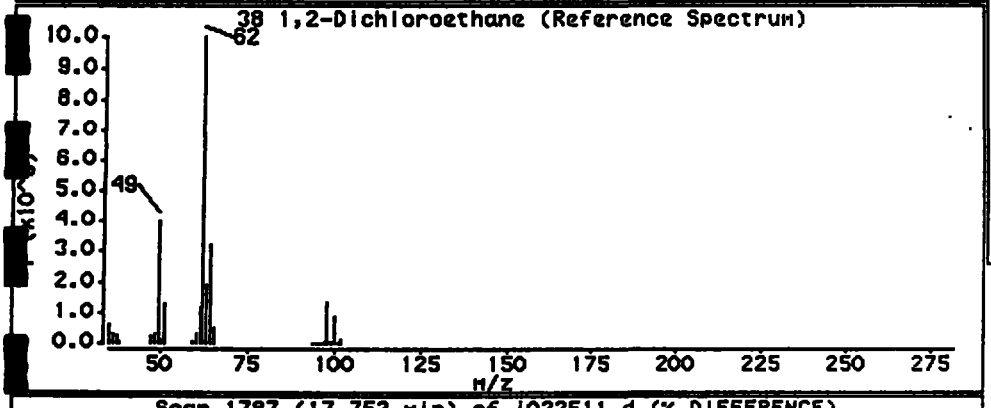
38 1,2-Dichloroethane

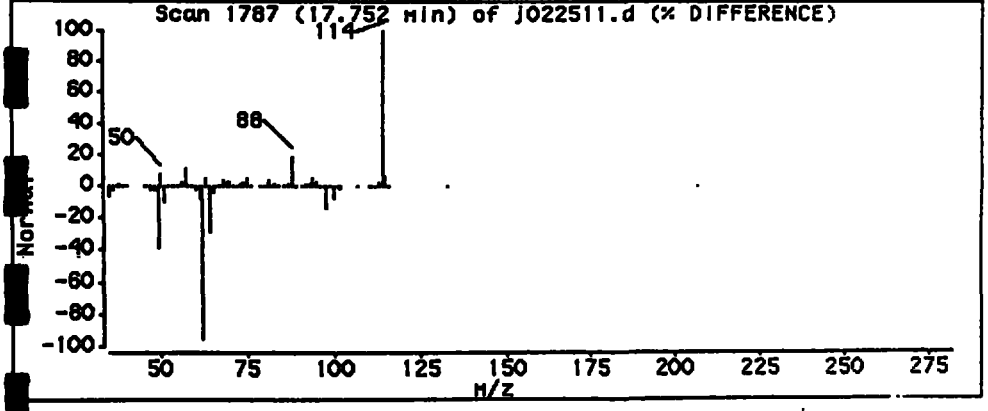












Data File: /chem/msdj.i/j-25feb.b/j022511.d

Date : 25-FEB-1997 16:36

Client ID: 021597D1 Dup.

Instrument: msdj.i

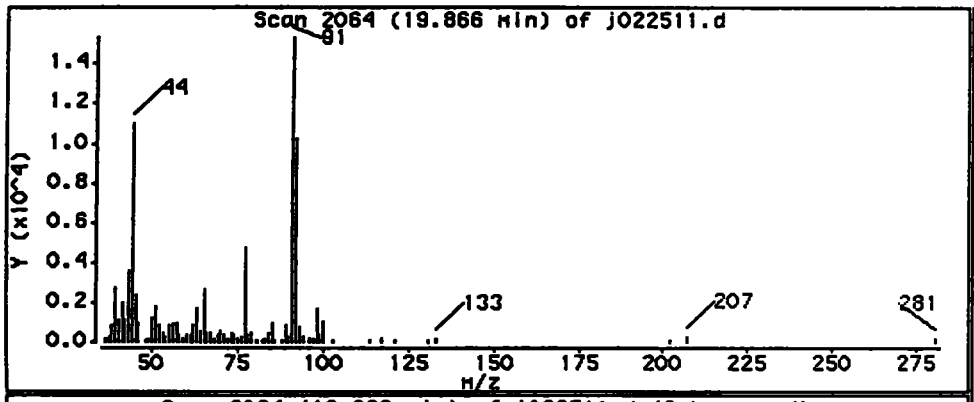
Sample Info: 500mL Can#12004 021597D1

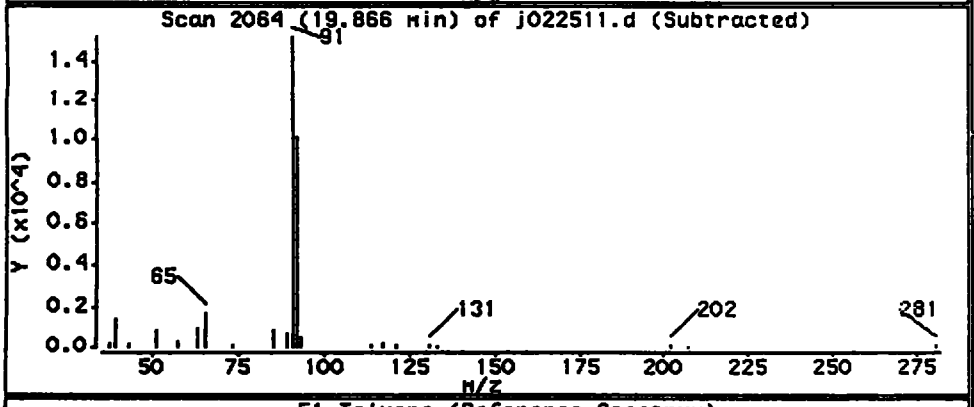
Operator: MH

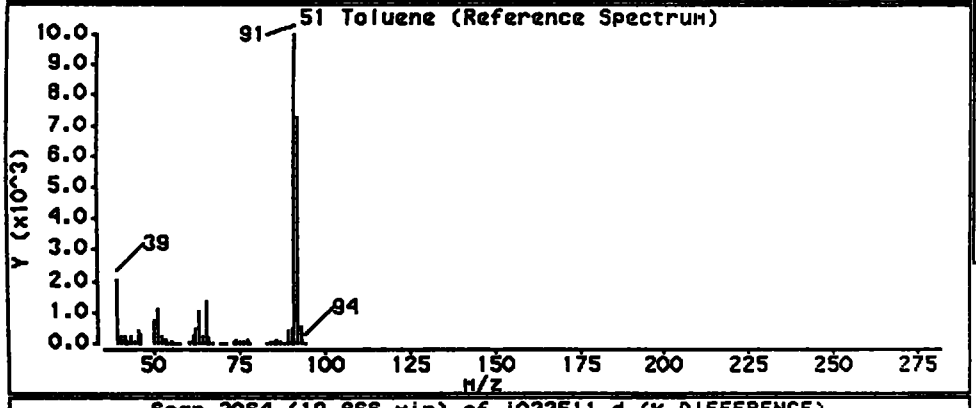
Column phase: RTx-624

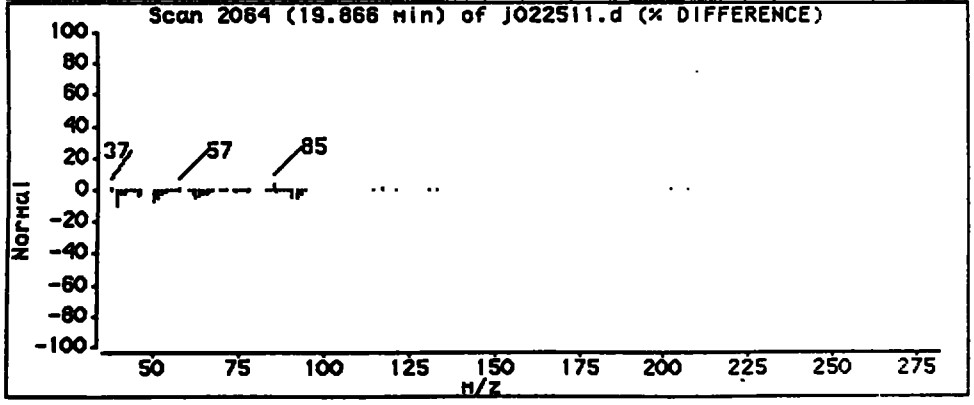
Column diameter: 0.58

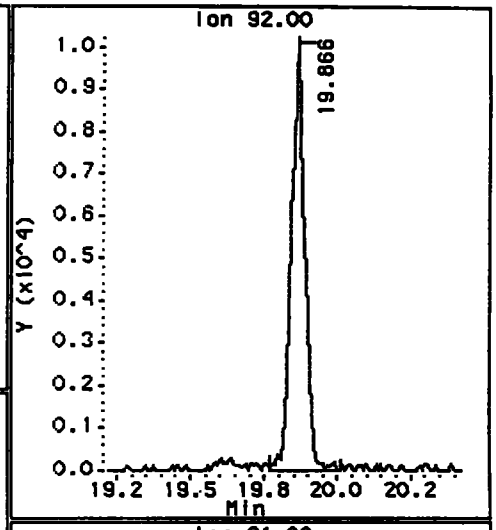
51 Toluene

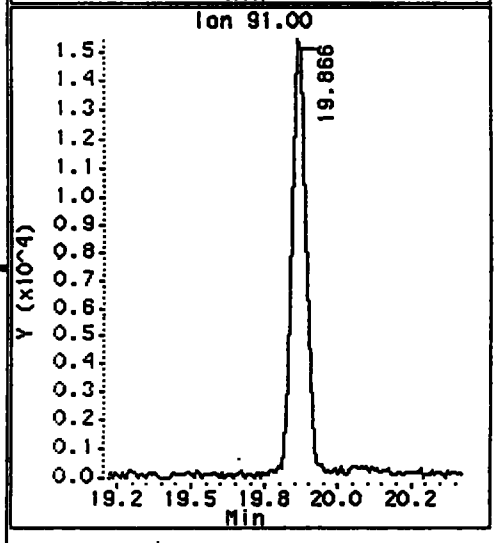












Data File: /chem/msdj.i/j-25feb.b/j022511.d

Date : 25-FEB-1997 16:38

Client ID: 021597D1 Dup.

Instrument: msdj.i

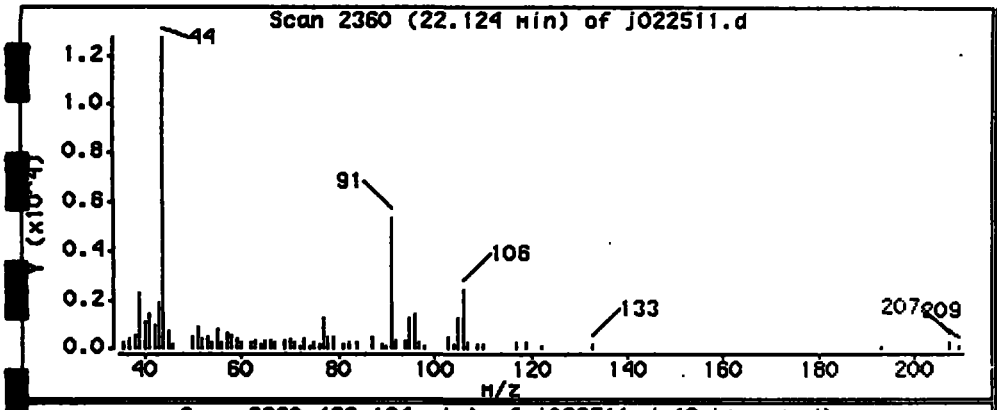
Sample Info: 500mL Can#12004 021597D1

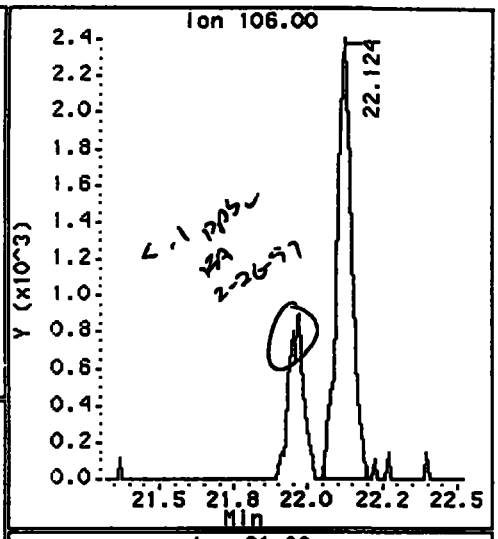
Operator: MH

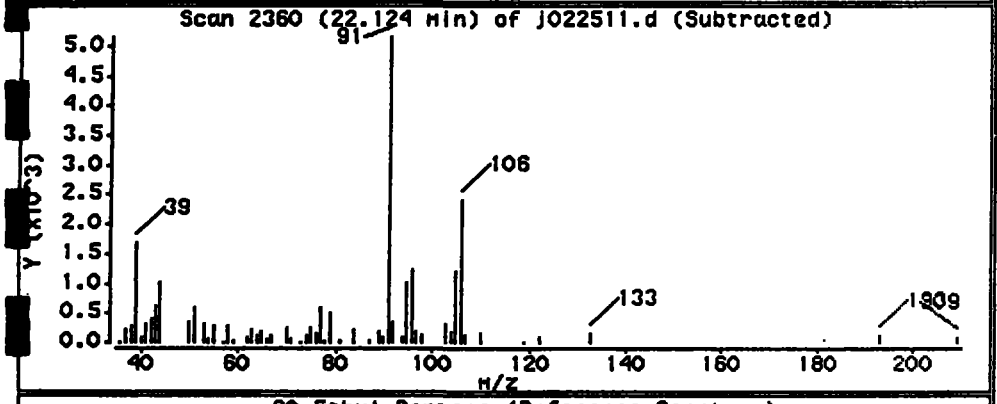
Column phase: RTx-624

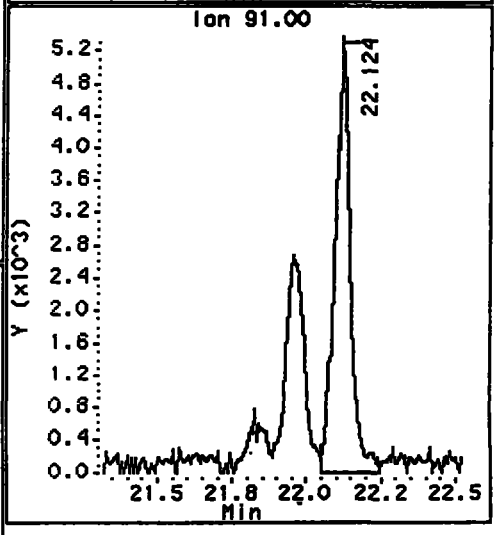
Column diameter: 0.58

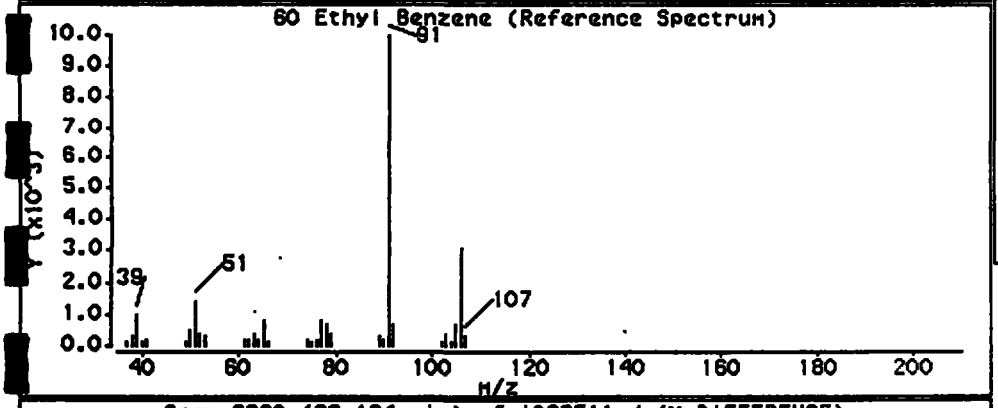
60 Ethyl Benzene

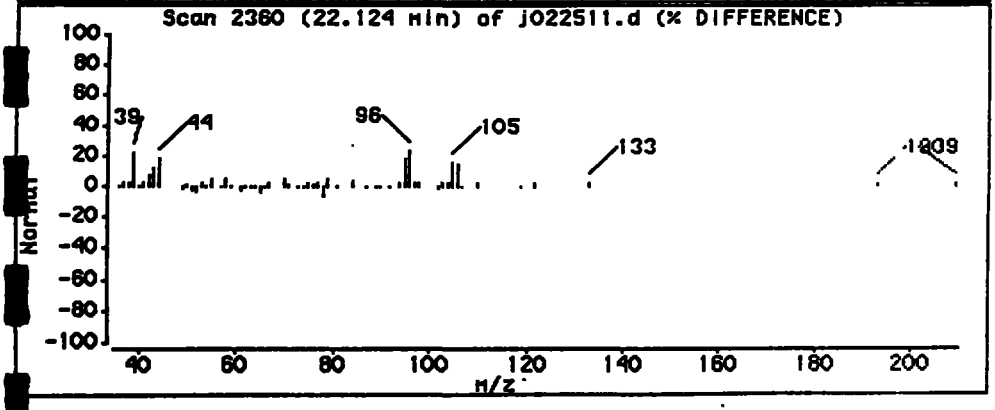












Data File: /chem/msdj.i/j-25feb.b/j022511.d

Date : 25-FEB-1997 16:36

Client ID: 021597D1 Dup.

Instrument: msdj.i

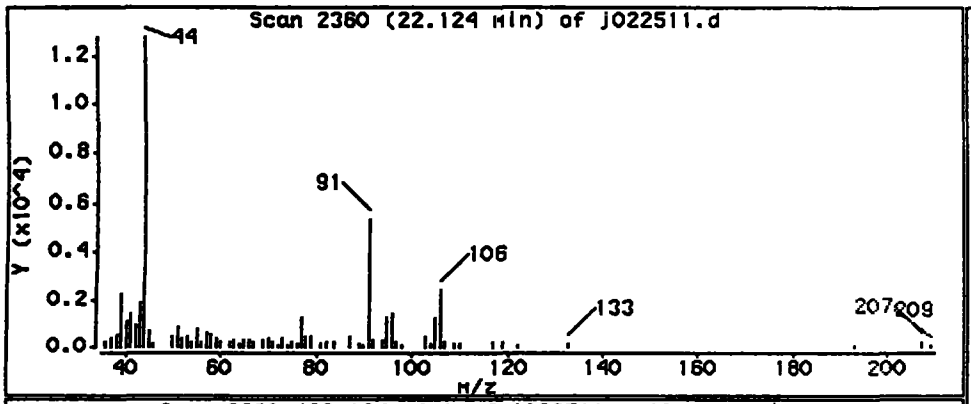
Sample Info: 500mL Can#12004 021597D1

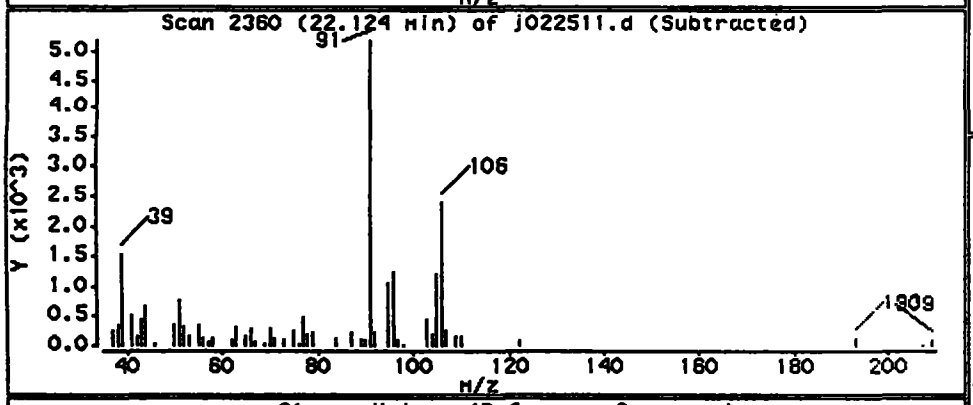
Operator: MH

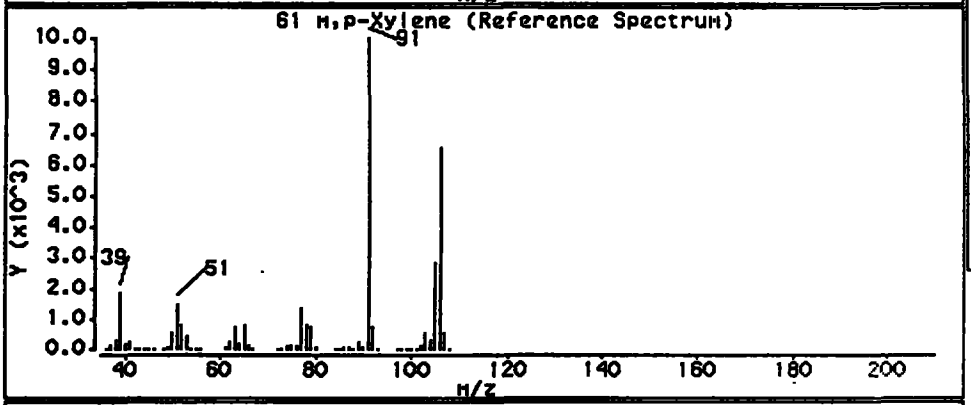
Column phase: RTx-624

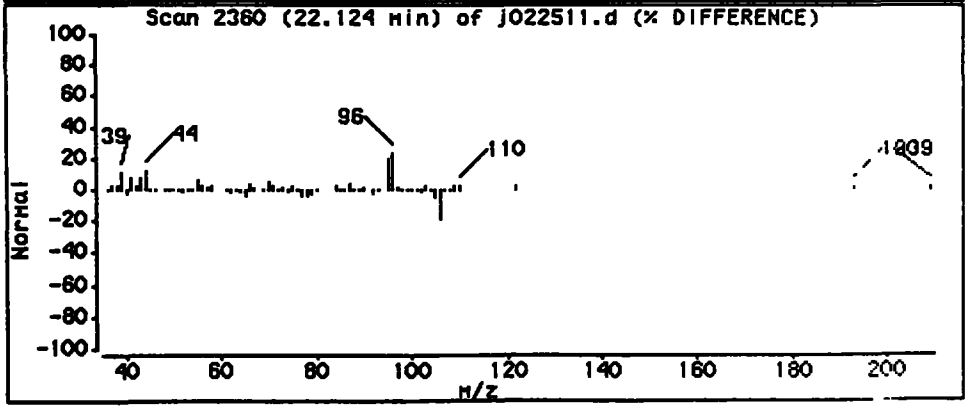
Column diameter: 0.58

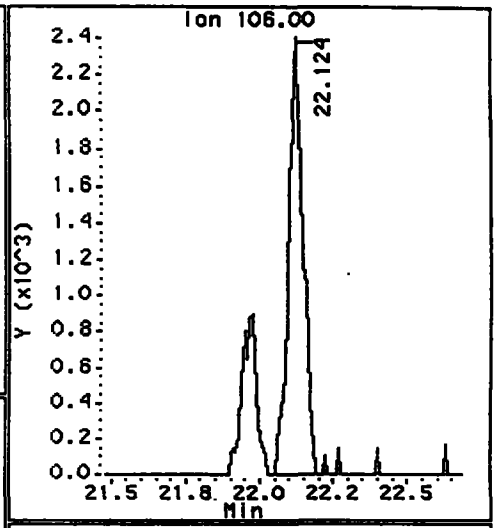
61 m,p-Xylene

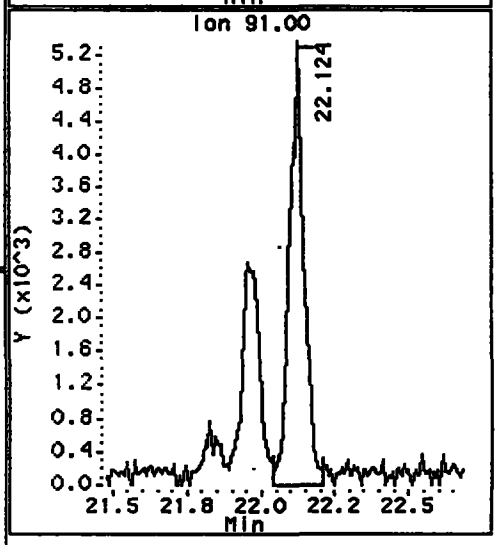












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Date : 25-FEB-1997 16:36

Client ID: 021597D1 Dup.

Instrument: msdj.i

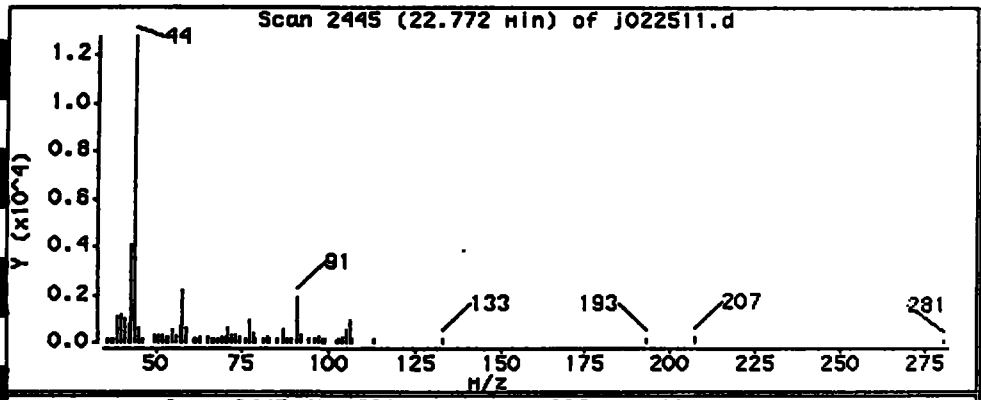
Sample Info: 500mL Can#12004 021597D1

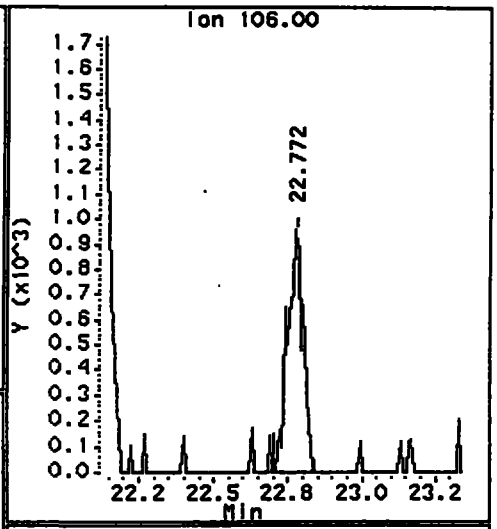
Operator: MH

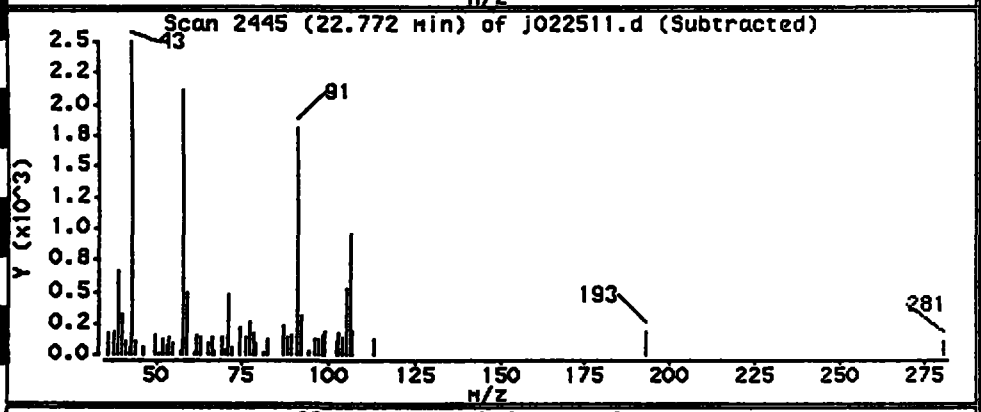
Column phase: RTx-624

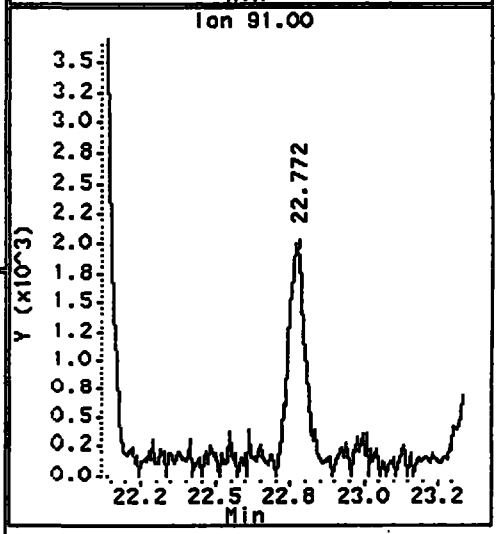
Column diameter: 0.58

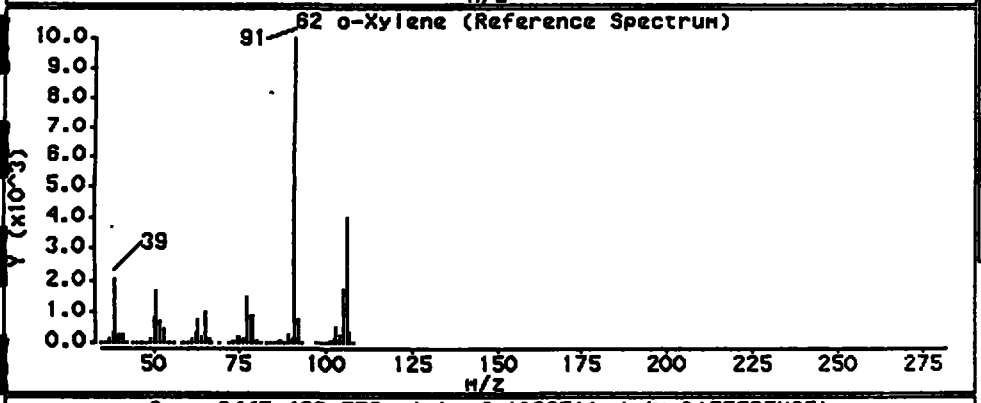
62 o-Xylene

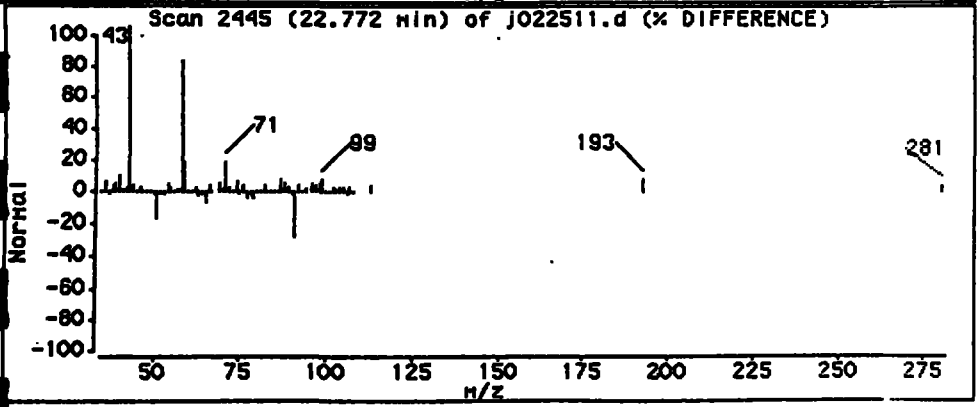












Data File: /chem/msdj.i/j-25feb.b/j022511.d
Date : 25-FEB-1997 16:36
Instrument: msdj.i
Client ID: 021597D1 Dup.
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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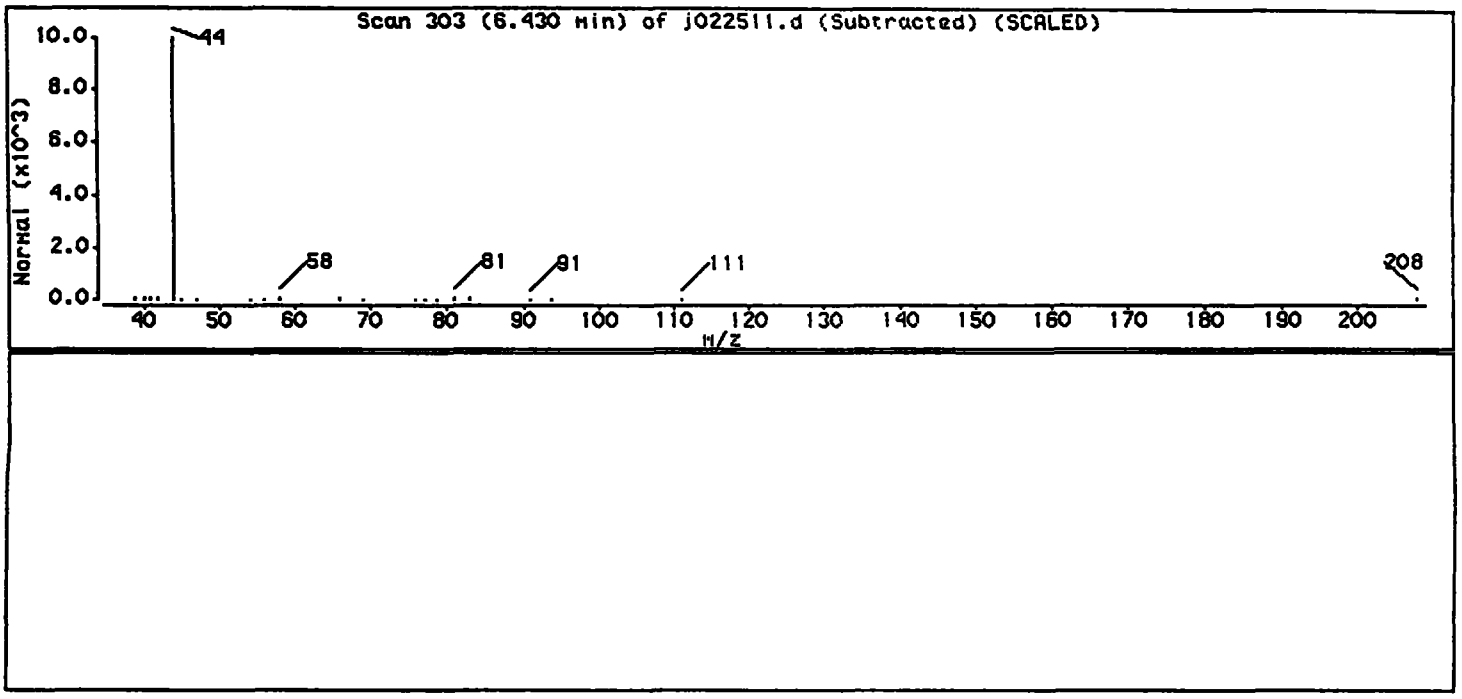

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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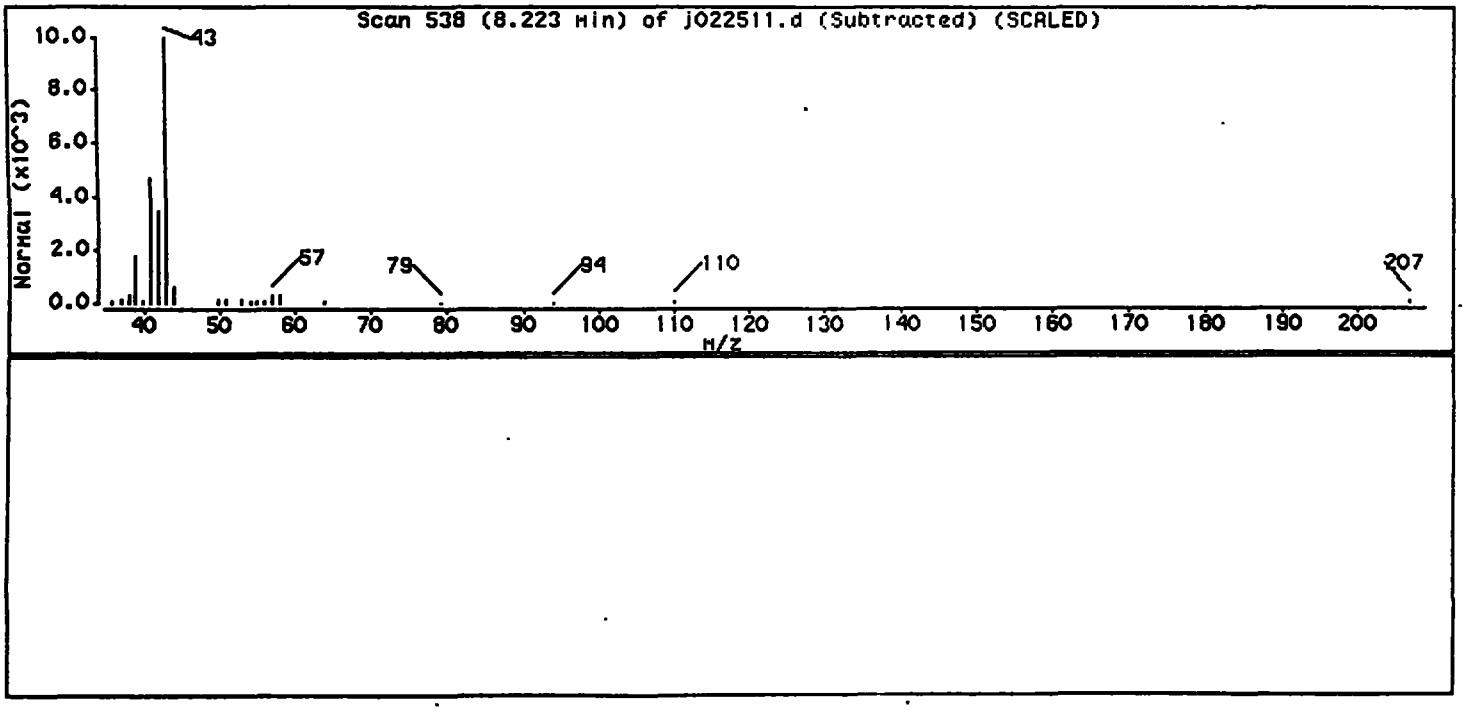
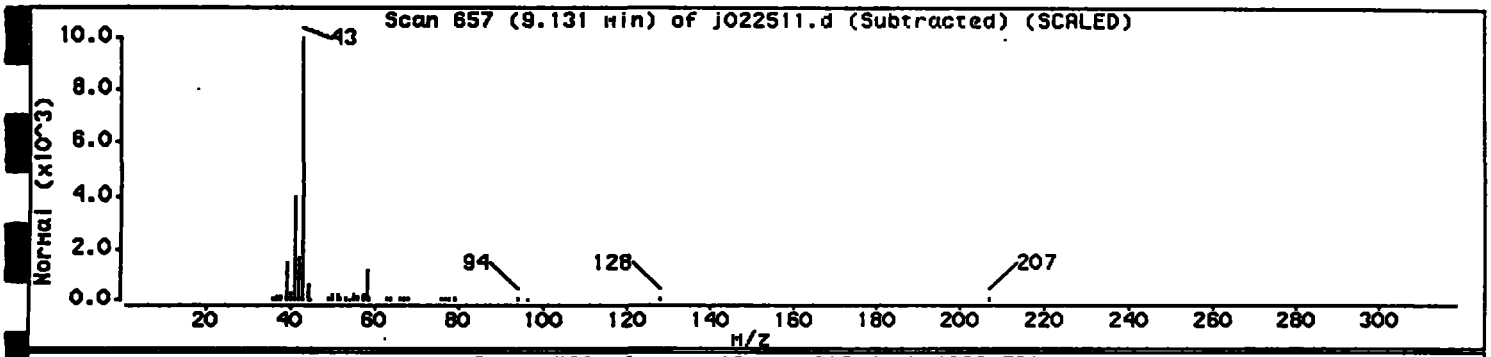
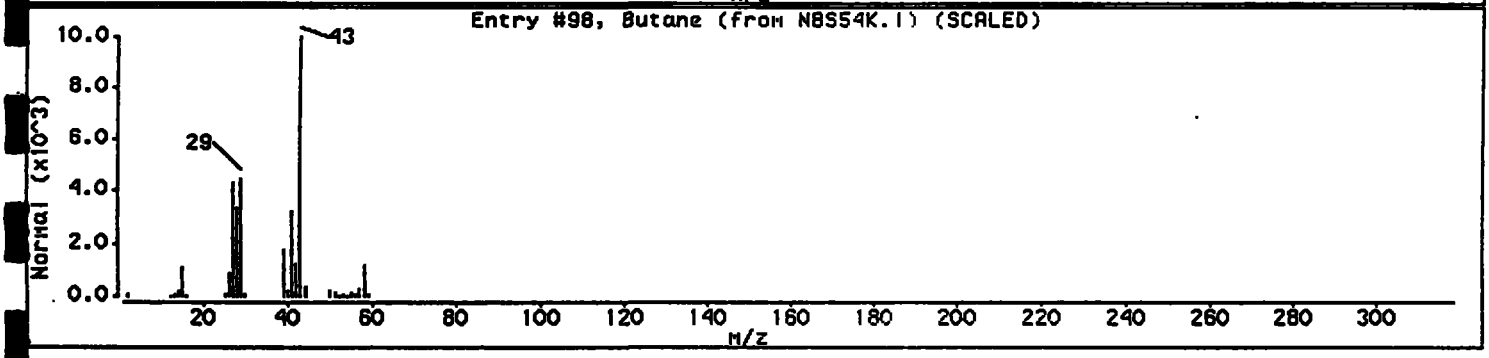


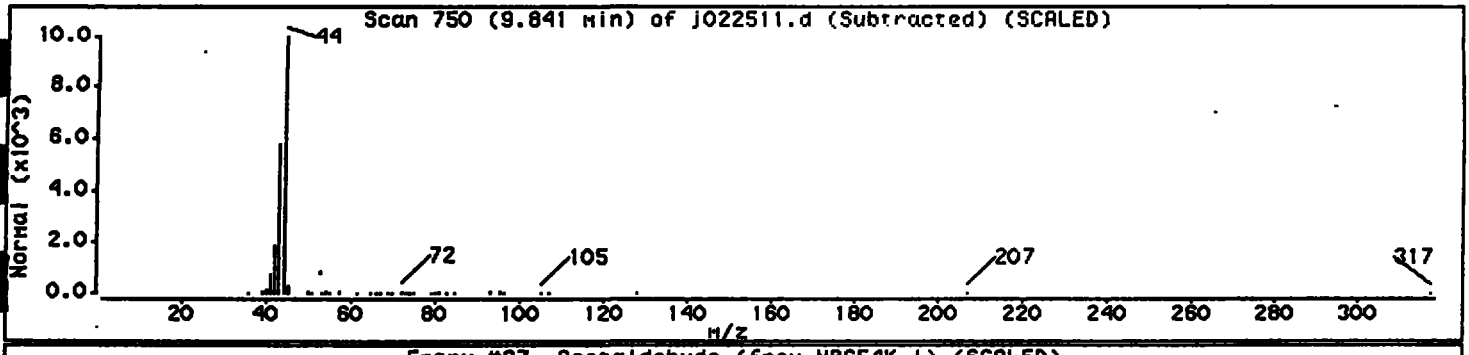
Data File: /chem/msdj.i/j-25feb.b/j022511.d
Date : 25-FEB-1997 16:36
Instrument: msdj.i
Client ID: 021597D1 Dup.
Column phase: RTx-624 Column diameter: 0.58

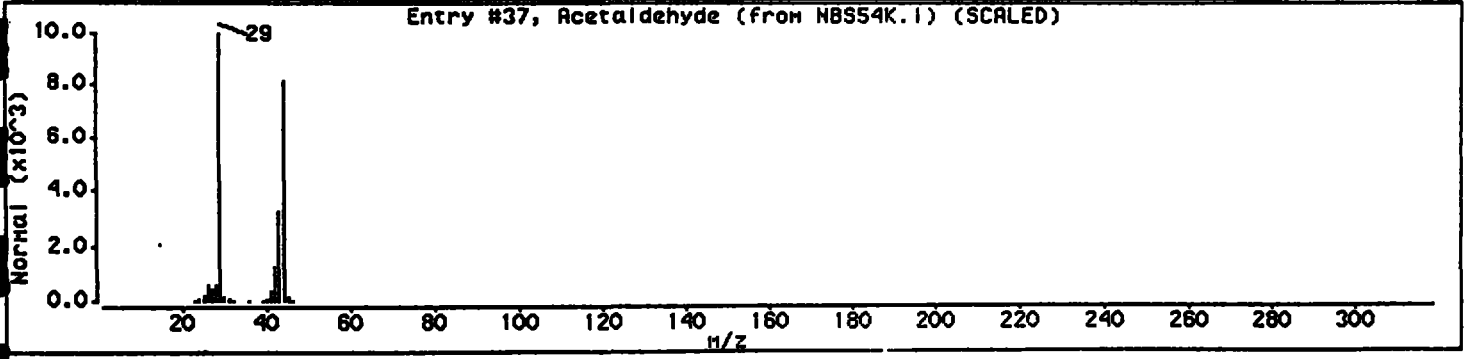
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane	106-97-8	NBS54K.I	98	64





Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetaldehyde	75-07-0	NBS54K.I	37	80





Data File: /chem/msdj.i/j-25feb.b/j022511.d
Date : 25-FEB-1997 16:36
Instrument: msdj.i
Client ID: 021597D1 Dup.
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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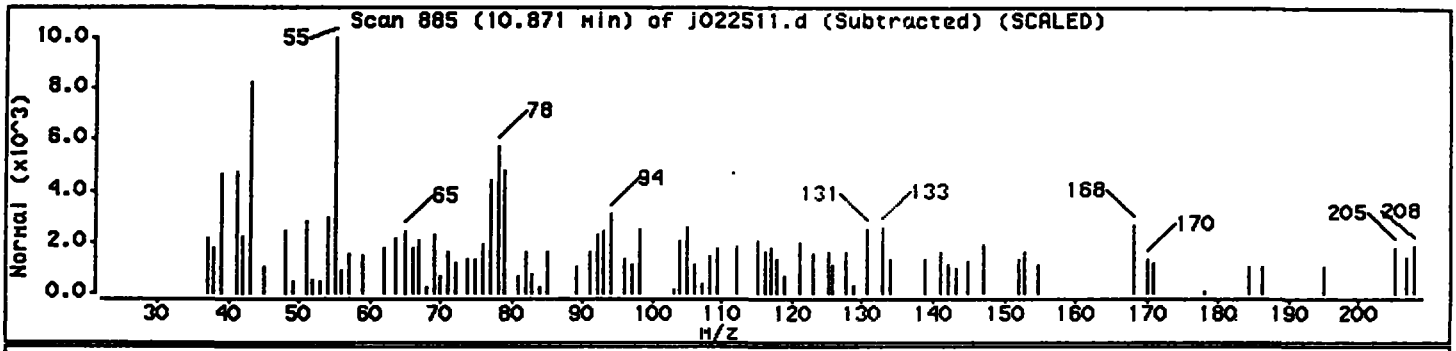
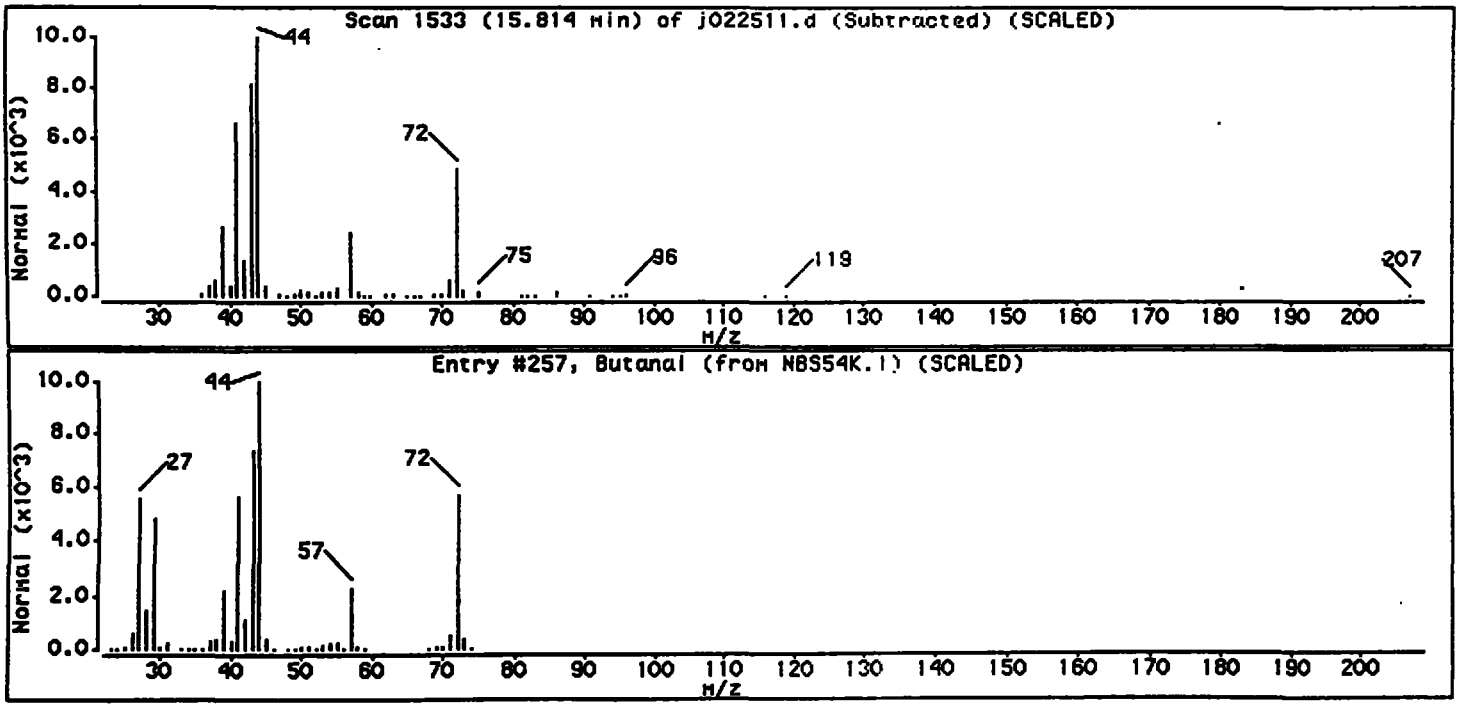
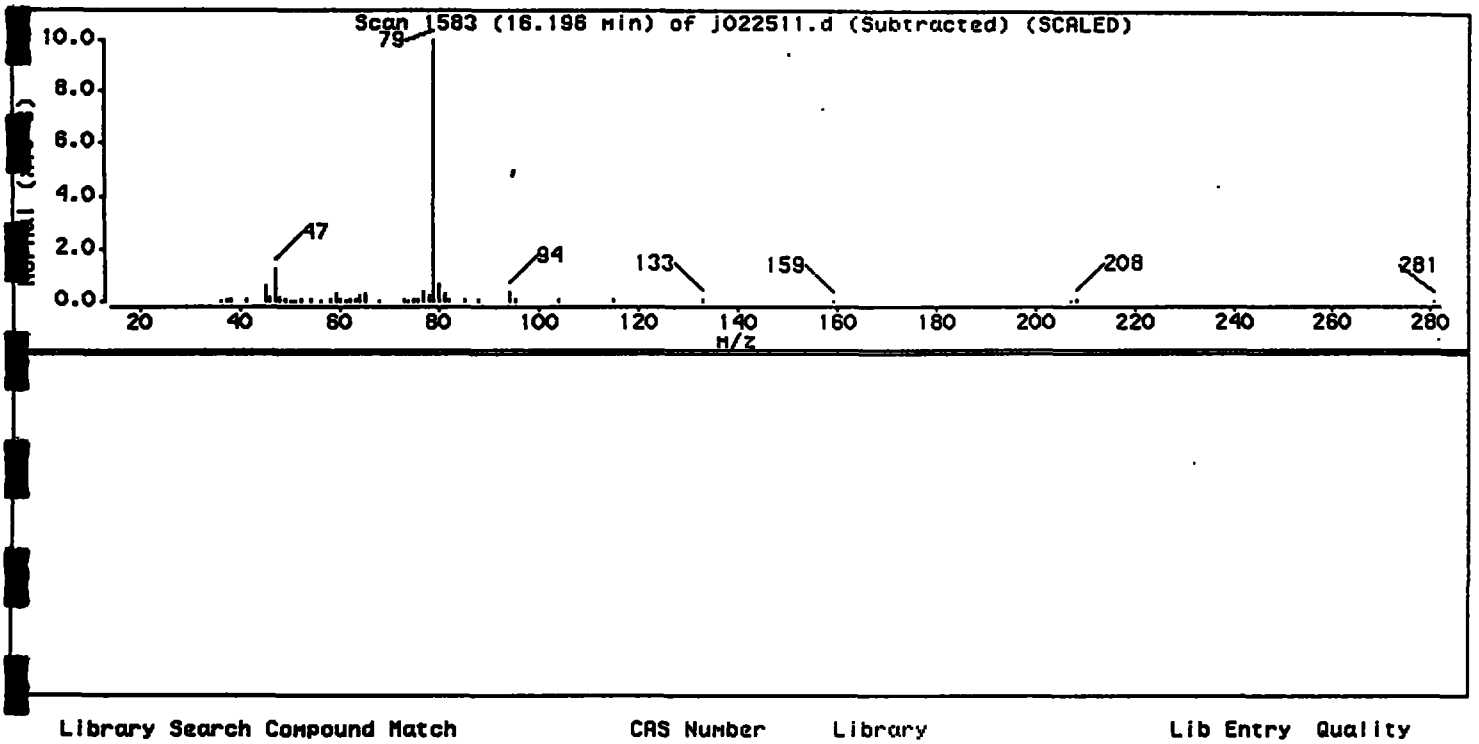


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanal	123-72-8	NBS54K.I	257	91

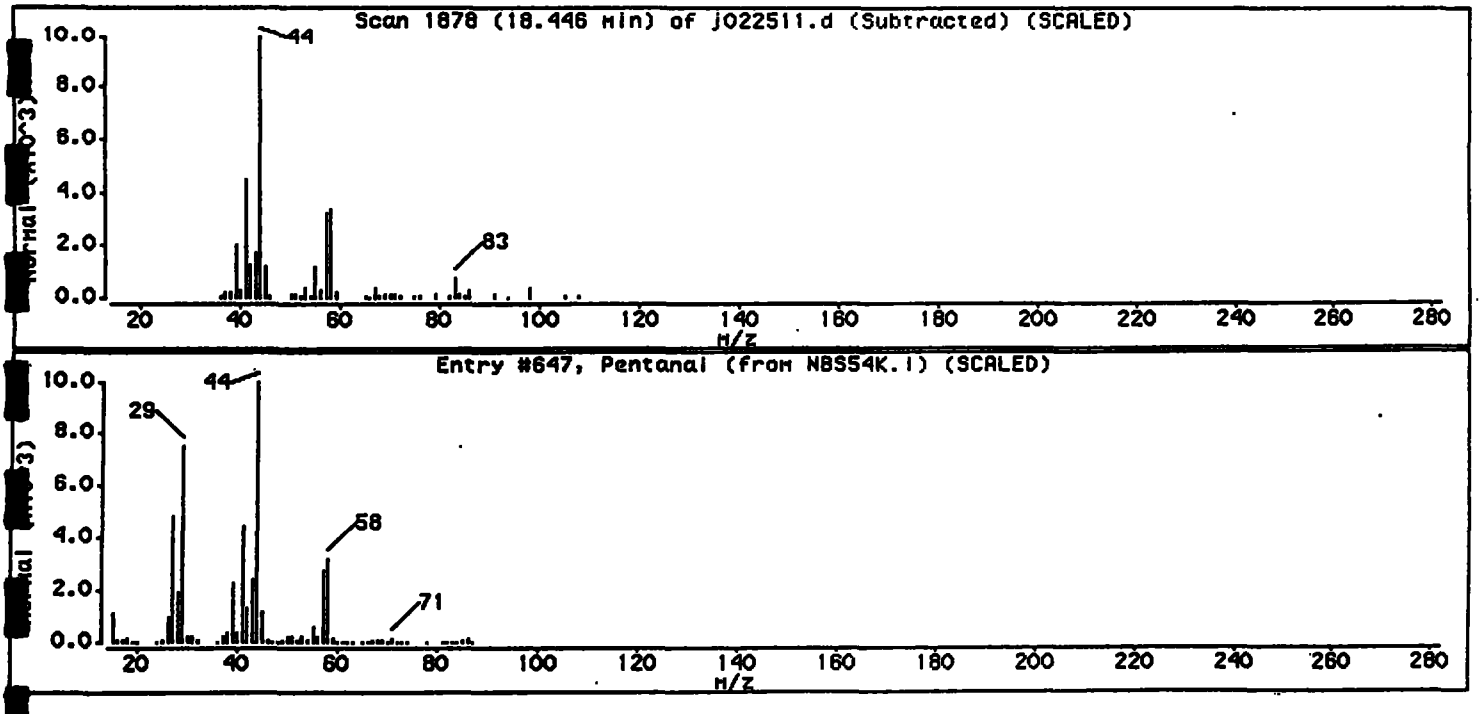


Data File: /chem/msdj.i/j-25feb.b/j022511.d
Date : 25-FEB-1997 16:36
Instrument: msdj.i
Client ID: 021597D1 Dup.
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

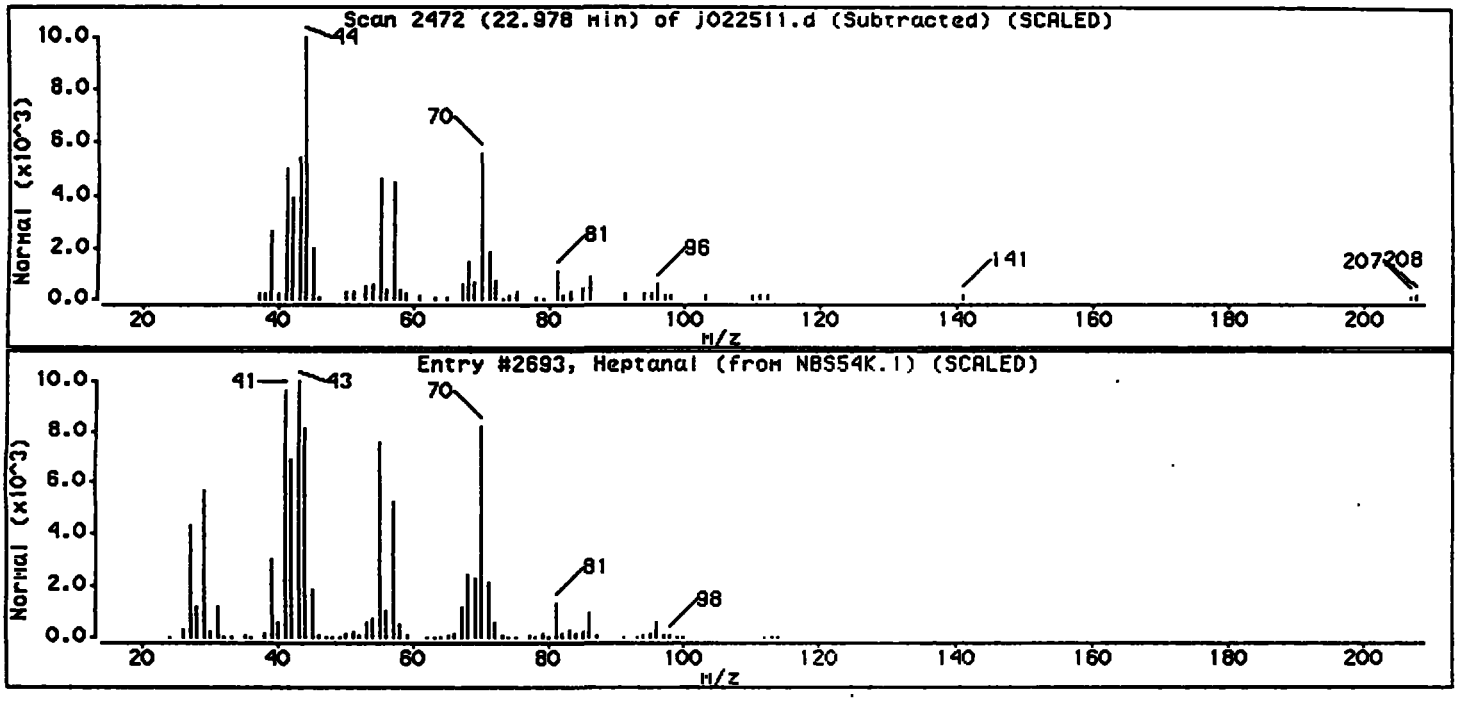


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Pentanal	110-62-3	NBS54K.I	647	56

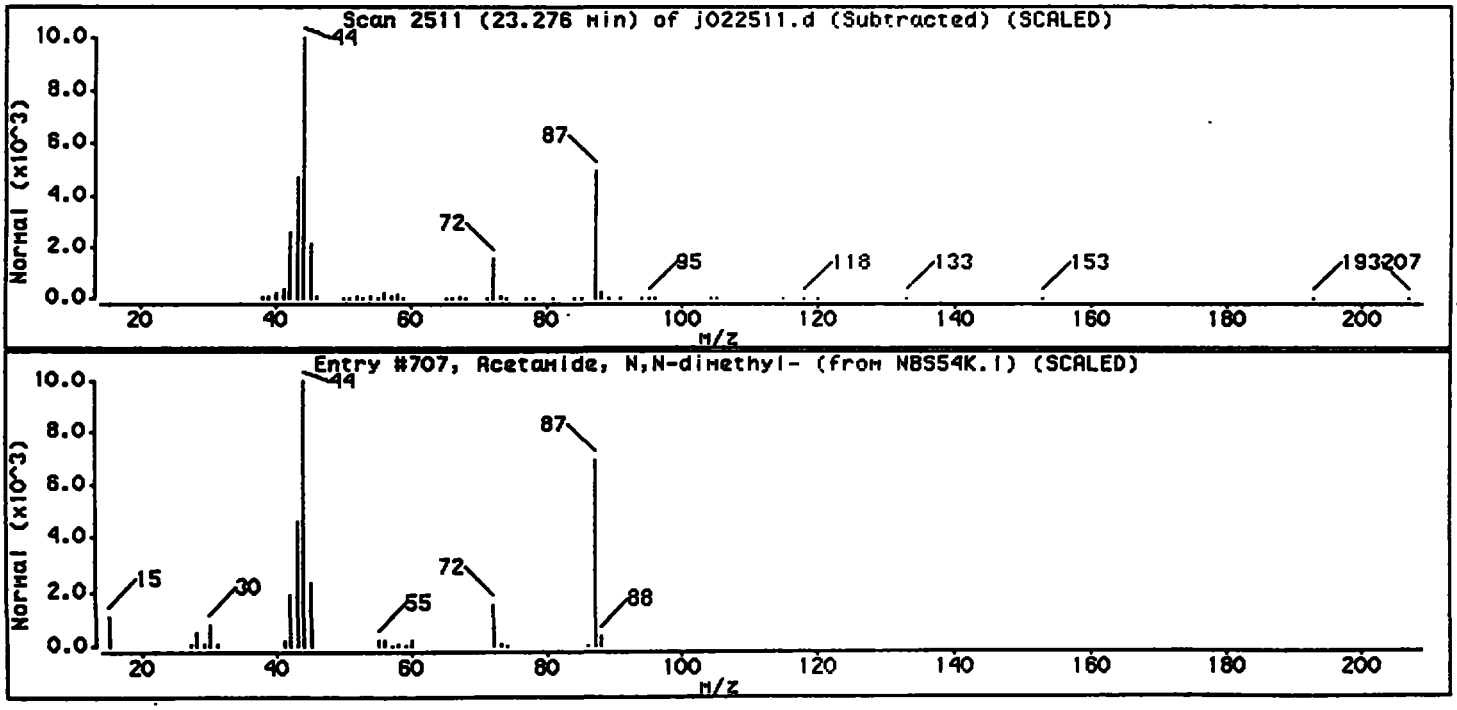


Data File: /chem/msdj.i/j-25feb.b/j022511.d
Date : 25-FEB-1997 16:38
Instrument: msdj.i
Client ID: 021597D1 Dup.
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Heptanal	111-71-7	NBS54K.I	2693	50

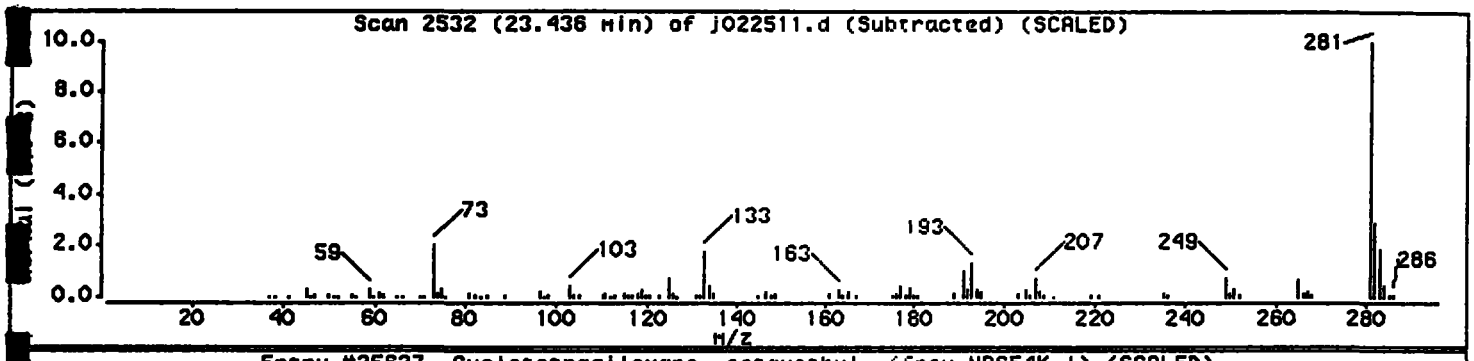


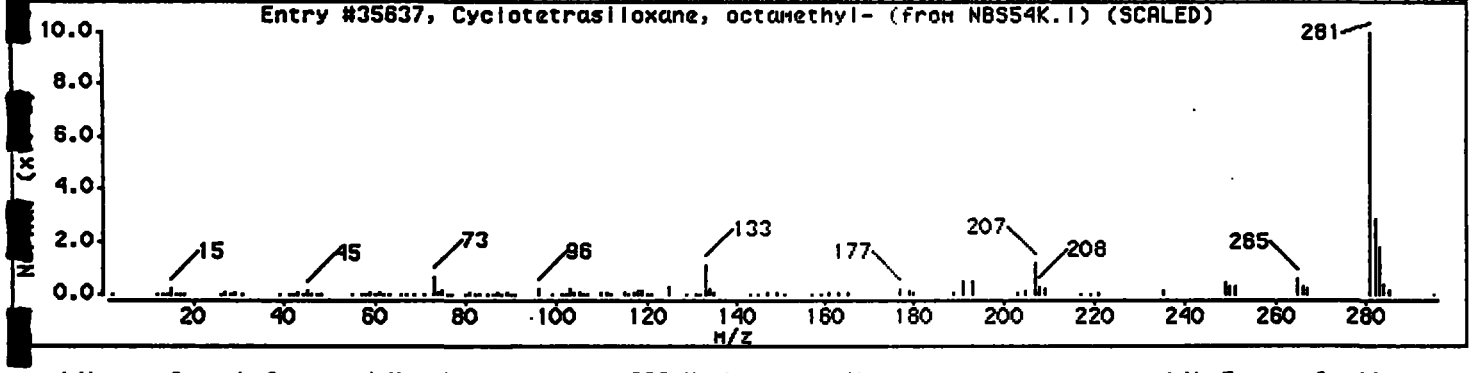
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetamide, N,N-dimethyl-	127-19-5	NBS54K.I	707	86



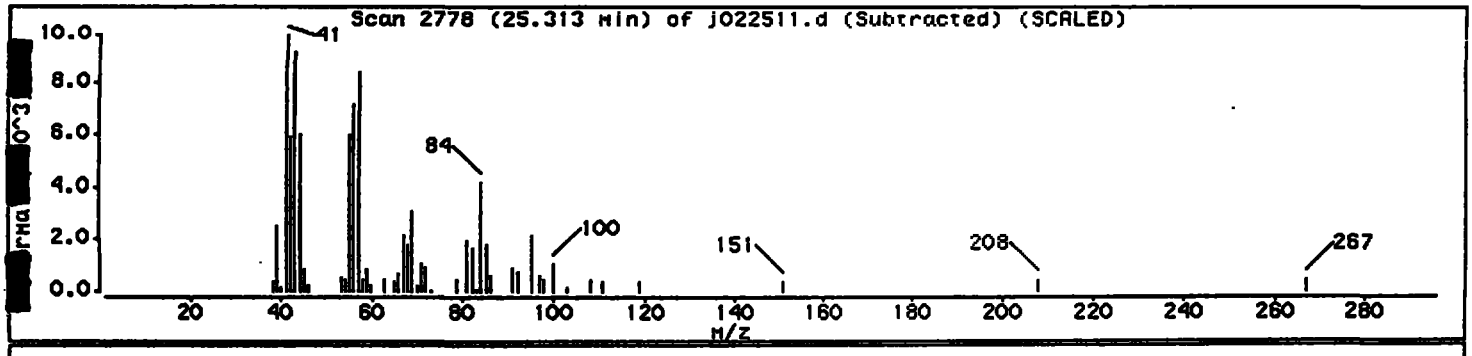
Data File: /chem/msdj.i/j-25feb.b/j022511.d
Date : 25-FEB-1997 16:36
Instrument: msdj.i
Client ID: 021597D1 Dup.
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS54K.I	35637	56



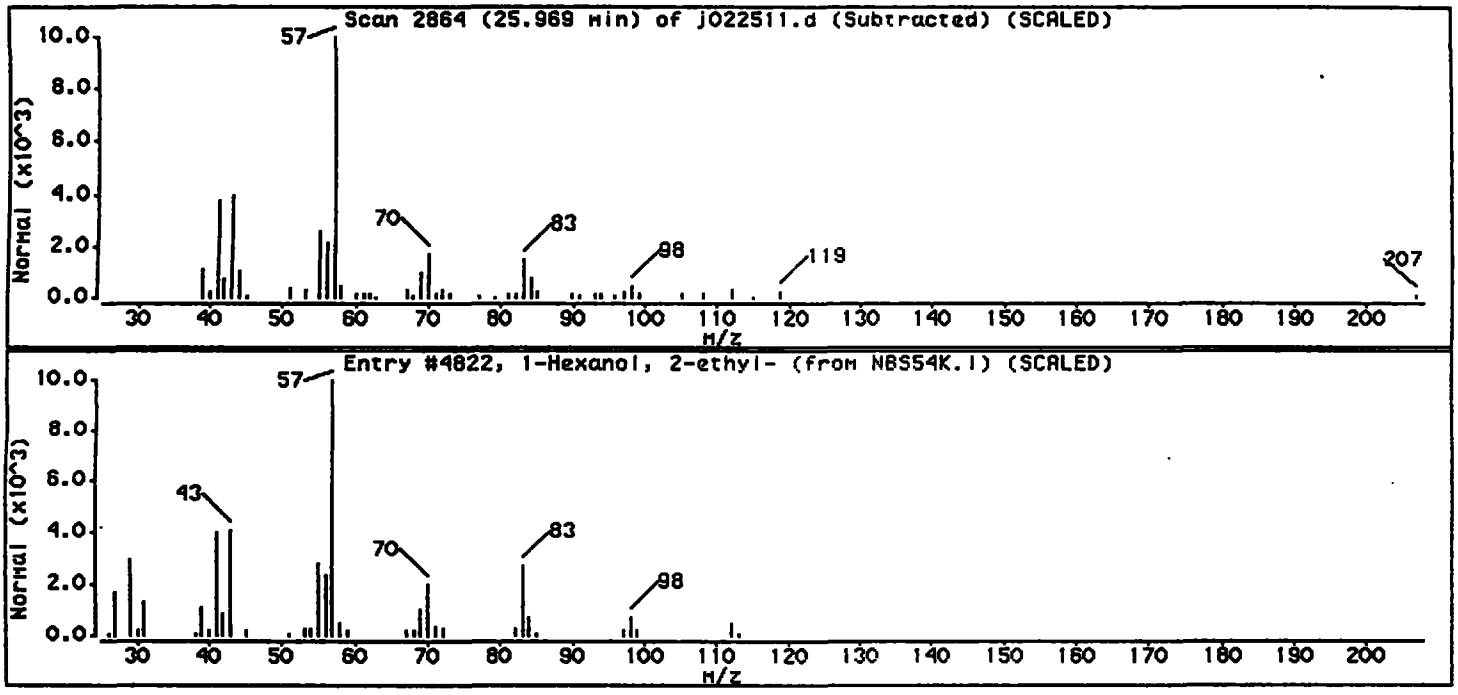


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



Data File: /chem/nsdj.i/j-25feb.b/j022511.d
Date : 25-FEB-1997 16:36
Instrument: nsdj.i
Client ID: 021597D1 Dup.
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1-Hexanol, 2-ethyl-	104-76-7	NBS54K.I	4822	59



eport Date : 09-Jan-1997 14:25

Air Toxics Limited

INITIAL CALIBRATION DATA

tart Cal Date : 09-JAN-97 10:44
End Cal Date : 09-JAN-1997 12:48
uant Method : ISTD
rigin : Force
Target Version : 3.12
Integrator : HP RTE
ethod file : /chem/msdj.i/j-09jan.b/to140109.m
al Date : 09-Jan-1997 14:23 fayala
Curve Type : Average

alibration File Names:
evel 2: /chem/msdj.i/j-09jan.b/j010905.d
Level 3: /chem/msdj.i/j-09jan.b/j010906.d
evel 4: /chem/msdj.i/j-09jan.b/j010907.d
evel 5: /chem/msdj.i/j-09jan.b/j010908.d
Level 6: /chem/msdj.i/j-09jan.b/j010909.d

Compound	0.5000 Level 2	5 Level 3	10 Level 4	25 Level 5	50 Level 6	RRF	% RSD	
1 Propylene	0.79308	0.68716	0.66328	1.07471	0.97050	0.83775	21.427	
6 Dichlorodifluoromethane/FR 12	2.93315	3.02482	2.95409	3.43582	3.23579	3.11673	6.893	
7 Freon 114	2.22430	2.21634	2.20251	2.33267	2.26964	2.24909	2.360	
8 Chloromethane	1.21097	1.29756	1.22782	1.45358	1.36465	1.31092	7.658	
9 Vinyl Chloride	1.35849	1.38630	1.35452	1.45919	1.39207	1.39012	3.021	
10 1,3-Butadiene	1.00120	1.05160	1.02401	1.13941	1.06458	1.05616	4.983	
11 Bromomethane	1.15310	1.12122	1.10518	1.15298	1.24260	1.15502	4.603	
12 Chloroethane	0.89087	0.81099	0.78733	0.76766	0.75192	0.80175	6.798	
13 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 Trichlorofluoromethane/FR 11	2.92572	3.12915	3.11398	3.12528	3.07652	3.07413	2.782	
15 Ethanol	0.34398	0.53100	0.53857	0.31021	0.32468	0.40969	28.035	
16 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
17 1,1-Dichloroethene	1.19957	1.24020	1.24330	0.85049	0.82986	1.07269	19.864	
18 Freon 113	1.61922	1.69085	1.68332	1.70465	1.67246	1.67410	1.961	
20 Acetone	2.04650	2.40857	2.36088	1.27516	1.80660	1.97954	23.424	
19 Carbon Disulfide	3.70910	3.81804	3.80469	3.80710	3.76203	3.78019	1.193	
22 2-Propanol	1.83843	2.54131	2.58455	2.69571	2.65392	2.46278	14.379	
21 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
23 Methylene Chloride	1.15640	1.16629	1.14944	1.14506	1.11677	1.14679	1.622	
25 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
24 trans-1,2-Dichloroethene	1.23119	1.25799	1.27469	1.30959	1.30209	1.27511	2.523	
26 MTBE	3.12518	3.36269	3.39170	3.43749	3.44219	3.35185	3.907	
27 Hexane	2.24699	2.37345	2.34206	2.36200	2.33037	2.33098	2.139	
28 1,1-Dichloroethane	2.31033	2.38615	2.35981	2.42335	2.34145	2.36422	1.822	
30 Vinyl Acetate	2.90308	3.90195	3.94374	4.11653	4.17636	3.80833	13.625	
29 Chloroprene	0.72169	0.84026	0.81546	0.83720	0.82280	0.80749	6.072	
32 2-Butanone	0.45941	0.56283	0.56051	0.58610	0.58984	0.55174	9.657	

FA 1-9-97

MKL 1-10-97

Air Toxics Limited

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-97 10:44
End Cal Date : 09-JAN-1997 12:48
Quant Method : ISTD
Origin : Force
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/msdj.i/j-09jan.b/to140109.m
Cal Date : 09-Jan-1997 14:23 fayala
Curve Type : Average

Compound	0.5000 Level 2	5 Level 3	10 Level 4	25 Level 5	50 Level 6	$\overline{RRF}$	% RSD	
31 cis-1,2-Dichloroethene	1.27313	1.34242	1.36752	1.38466	1.38425	1.35039	3.443	
35 Tetrahydrofuran	1.22139	1.30452	1.33778	1.34771	1.34424	1.31113	4.043	
34 Chloroform	2.37578	2.50641	2.51333	2.53491	2.51475	2.48904	2.579	
36 1,1,1-Trichloroethane	2.27582	2.35007	2.32087	2.36039	2.34502	2.33044	1.450	
37 Cyclohexane	2.16405	2.22698	2.18015	2.18465	2.14685	2.18054	1.372	
38 Carbon Tetrachloride	1.52623	1.86312	1.88808	1.94438	1.99956	1.84427	10.055	
40 Benzene	0.91745	0.94993	0.94534	0.97544	0.99807	0.95724	3.210	
41 1,2-Dichloroethane	0.34857	0.37226	0.37308	0.38384	0.39091	0.37373	4.300	
42 Heptane	0.59400	0.65634	0.65381	0.69350	0.69960	0.65945	6.387	
4 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
2 Bicycloheptadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
44 Trichloroethene	0.33974	0.36019	0.36286	0.37490	0.38702	0.36494	4.841	
45 1,2-Dichloropropane	0.30095	0.33158	0.33155	0.34037	0.34305	0.32950	5.091	
46 1,4-Dioxane	0.14842	0.17420	0.18038	0.19055	0.19912	0.17854	10.837	
47 Bromodichloromethane	0.50922	0.57100	0.58190	0.61115	0.62207	0.57907	7.640	
48 cis-1,3-Dichloropropene	0.13899	0.16138	0.16480	0.17198	0.17593	0.16262	8.856	
3 DMDS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
49 4-Methyl-2-pentanone	0.63157	0.70911	0.72669	0.74509	0.75025	0.71254	6.749	
52 Octane	0.24123	0.25360	0.25893	0.28812	0.31257	0.27089	10.692	
51 Toluene	0.50929	0.56803	0.56702	0.60262	0.63770	0.57693	8.270	
53 trans-1,3-Dichloropropene	0.56209	0.40863	0.38802	0.39774	0.38286	0.42787	17.686	
54 1,1,2-Trichloroethane	0.35843	0.40656	0.38864	0.39902	0.38934	0.38840	4.716	
56 2-Hexanone	0.69137	0.97265	0.95260	0.99183	0.98288	0.91827	13.904	
55 Tetrachloroethene	0.39373	0.44280	0.43039	0.45117	0.47139	0.43790	6.589	
57 Dibromochloromethane	0.44537	0.54450	0.53521	0.56215	0.56464	0.53037	9.252	
58 1,2-Dibromoethane	0.46390	0.53634	0.51074	0.52934	0.52379	0.51282	5.638	
60 Chlorobenzene	0.79078	0.84965	0.83491	0.89292	0.90073	0.85380	5.264	
61 Ethyl Benzene	0.45419	0.53001	0.51086	0.57535	0.58796	0.53168	10.092	
62 m,p-Xylene	0.42424	0.50760	0.48990	0.56339	0.60391	0.51781	13.355	
63 o-Xylene	0.26877	0.32072	0.30830	0.35113	0.35209	0.32020	10.774	
64 Styrene	0.49831	0.66665	0.66425	0.75757	0.76958	0.67127	16.165	
65 Bromoform	0.19251	0.26325	0.25741	0.27892	0.28956	0.25633	14.774	
67 1,1,2,2-Tetrachloroethane	0.74745	0.84858	0.77533	0.79701	0.77437	0.78855	4.804	
68 4-Ethyltoluene(1)	0.89314	1.03981	1.05639	1.22314	1.17410	1.07732	11.959	
(2)	0.23154	0.26187	0.26843	0.32214	0.30122	0.27704	12.753	

Air Toxics Limited

INITIAL CALIBRATION DATA

tart Cal Date : 09-JAN-97 10:44
End Cal Date : 09-JAN-1997 12:48
uant Method : ISTD
rigin : Force
arget Version : 3.12
Integrator : HP RTE
ethod file : /chem/msdj.i/j-09jan.b/to140109.m
al Date : 09-Jan-1997 14:23 fayala
urve Type : Average

	Compound	0.5000 Level 2	5 Level 3	10 Level 4	25 Level 5	50 Level 6	RRF	% RSD	
69	1,3,5-Trimethylbenzene(1)	0.37581	0.52191	0.51120	0.60695	0.56405	0.51598	16.866	
	(2)	0.18938	0.24078	0.23927	0.26082	0.26040	0.23813	12.235	
70	alpha-Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
71	1,2,4-Trimethylbenzene	0.32796	0.41617	0.41030	0.48211	0.46330	0.41997	14.244	
72	1,3-Dichlorobenzene	0.43526	0.52652	0.50311	0.59652	0.59302	0.53089	12.672	
73	1,4-Dichlorobenzene	0.41464	0.51777	0.49948	0.57981	0.57694	0.51773	13.072	
74	Benzyl Chloride	0.70147	0.98722	0.97823	1.18188	1.14885	0.99953	19.048	
75	1,2-Dichlorobenzene	0.39804	0.47189	0.45709	0.53241	0.51562	0.47501	11.139	
5	1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
76	1,2,4-Trichlorobenzene	0.16627	0.18587	0.16992	0.23615	0.24548	0.20074	18.664	
77	Hexachlorobutadiene	0.19126	0.20969	0.19172	0.23300	0.23201	0.21154	9.709	
39	Octafluorotoluene	2.20966	2.20467	2.22502	2.41605	2.52799	2.31668	6.363	
S 50	Toluene-d8	0.88011	0.89757	0.89390	0.92470	0.92760	0.90477	2.276	
S 66	Bromofluorobenzene	0.78490	0.79243	0.76473	0.77199	0.75735	0.77428	1.855	

Data File: /chem/msdj.i/j-09jan.b/j010905.d
Report Date: 09-Jan-1997 14:21

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010905.d
Lab Smp Id: VSTD0005 Client Smp ID: VSTD0005
Inj Date : 09-JAN-1997 10:04
Operator : FA Inst ID: msdj.i
Smp Info : 2.5ml #296-25 100ppbv (0.5ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:21 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

				AMOUNTS CAL-AMT	AMOUNTS ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane					CAS #: 74-97-5			
16.689	16.689 (1.000)	130	193877	5.0			100.00	9624(Q)
16.689	16.689 (0.000)	128	43688			27.42- 127.42	22.53	
16.689	16.689 (0.000)	49	99136			125.67- 225.67	51.13	
* 43 1,4-Difluorobenzene					CAS #: 540-36-3			
18.032	18.032 (1.000)	114	850139	5.0			100.00	9792
18.032	18.032 (0.000)	88	47264			0.00- 67.86	5.56	
* 59 Chlorobenzene-d5					CAS #: 3114-55-4			
22.167	22.167 (1.000)	117	656394	5.0			100.00	7253
22.167	22.167 (0.000)	82	103704			10.92- 110.92	15.80	
$ 39 Octafluorotoluene					CAS #: 434-64-0			
17.200	17.200 (1.031)	217	428402	5.0	4.8		100.00	9710
17.200	17.200 (0.000)	186	89248			17.99- 117.99	20.83	
$ 50 Toluene-d8					CAS #: 2037-26-5			
20.069	20.069 (1.113)	98	748213	5.0	4.9		100.00	9787
20.069	20.069 (0.000)	70	25808			0.00- 61.99	3.45	
20.069	20.069 (0.000)	100	145664			17.70- 117.70	19.47	

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
66 Bromofluorobenzene						CAS #: 460-00-4			
24.036	24.036	(1.084)	95	515201	5.0	5.1		100.00	9673
24.036	24.036	(0.000)	174	71136			9.51- 109.51	13.81	
24.036	24.036	(0.000)	176	70920			9.33- 109.33	13.77	
1 Propylene						CAS #: 115-07-1			
4.719	4.719	(0.283)	41	15376	0.50	0.47		100.00	7464(M)
4.680	4.680	(0.280)	42	293			0.00- 69.90	1.91	
4.680	4.680	(0.280)	39	566			0.00- 88.45	3.68	
6 Dichlorodifluoromethane/FR 12						CAS #: 75-71-8			
5.276	5.276	(0.316)	85	56867	0.50	0.47		100.00	8543(M)
5.276	5.276	(0.316)	87	1280			0.00- 81.43	2.25	
7 Freon 114						CAS #: 76-14-2			
7.015	7.015	(0.420)	135	43124	0.50	0.49		100.00	9511
7.015	7.015	(0.000)	137	1213			0.00- 77.56	2.81	
8 Chloromethane						CAS #: 74-87-3			
7.129	7.129	(0.427)	50	23478	0.50	0.46		100.00	8802(Q)
7.129	7.129	(0.000)	52	891			8.12- 108.12	3.80	
9 Vinyl Chloride						CAS #: 75-01-4			
8.236	8.236	(0.493)	62	26338	0.50	0.49		100.00	8364
8.236	8.236	(0.000)	64	745			0.00- 74.69	2.83	
10 1,3-Butadiene						CAS #: 106-99-0			
8.602	8.602	(0.515)	54	19411	0.50	0.47		100.00	9055(Q)
8.602	8.602	(0.000)	39	2676			54.41- 154.41	13.79	
11 Bromomethane						CAS #: 74-83-9			
10.151	10.151	(0.608)	94	22356	0.50	0.50		100.00	9050(Q)
10.151	10.151	(0.000)	96	2707			30.09- 130.09	12.11	
12 Chloroethane						CAS #: 75-00-3			
10.753	10.753	(0.644)	64	17272	0.50	0.56		100.00	8945
10.753	10.753	(0.000)	66	1021			0.00- 82.41	5.91	
14 Trichlorofluoromethane/FR 11						CAS #: 75-69-4			
11.730	11.730	(0.703)	101	56723	0.50	0.48		100.00	9577
11.730	11.730	(0.000)	103	8089			13.40- 113.40	14.26	
15 Ethanol						CAS #: 64-17-5			
12.943	12.943	(0.776)	45	6669	0.50	0.42		100.00	(M)
12.897	12.897	(0.773)	46	664			0.00- 59.96	9.96	
12.714	12.714	(0.762)	43	507			0.00- 57.60	7.60	
17 1,1-Dichloroethene						CAS #: 75-35-4			
13.149	13.149	(0.788)	96	23257	0.50	0.56		100.00	9392(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.149	13.149 (0.000)	61	10406			115.70- 215.70	44.74	
13.149	13.149 (0.000)	98	4000			13.69- 113.69	17.20	
18 Freon 113					CAS #: 76-13-1			
13.225	13.225 (0.792)	151	31393	0.50	0.48		100.00	9203(Q)
13.225	13.225 (0.000)	153	4874			16.69- 116.69	15.53	
13.225	13.225 (0.000)	101	12289			118.16- 218.16	39.15	
19 Carbon Disulfide					CAS #: 75-15-0			
13.530	13.530 (0.811)	76	71911	0.50	0.49		100.00	8000
20 Acetone					CAS #: 67-64-1			
13.446	13.446 (0.806)	43	39677	0.50	0.52		100.00	
13.446	13.446 (0.806)	58	13203			0.00- 83.28	33.28	
22 2-Propanol					CAS #: 67-63-0			
13.889	13.889 (0.832)	45	35643	0.50	0.37		100.00	7225
13.889	13.889 (0.000)	43	1230			0.00- 68.22	3.45	
13.889	13.889 (0.000)	59	329			0.00- 54.87	0.92	
23 Methylene Chloride					CAS #: 75-09-2			
14.240	14.240 (0.853)	84	22420	0.50	0.50		100.00	9691(Q)
14.240	14.240 (0.000)	49	8120			92.41- 192.41	36.22	
14.240	14.240 (0.000)	51	2590			0.00- 95.42	11.55	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.736	14.736 (0.883)	96	23870	0.50	0.48		100.00	9422(Q)
14.736	14.736 (0.000)	61	8906			75.67- 175.67	37.31	
14.736	14.736 (0.000)	98	3813			3.80- 103.80	15.97	
26 MTBE					CAS #: 1634-04-4			
14.728	14.728 (0.882)	73	60590	0.50	0.47		100.00	6412
14.728	14.728 (0.000)	57	3341			0.00- 71.27	5.51	
14.728	14.728 (0.000)	41	4569			0.00- 79.08	7.54	
27 Hexane					CAS #: 110-54-3			
15.163	15.163 (0.909)	57	43564	0.50	0.48		100.00	7239(aQ)
15.163	15.163 (0.000)	43	9334			22.17- 122.17	21.43	
15.163	15.163 (0.000)	56	7065			4.62- 104.62	16.22	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.430	15.430 (0.925)	63	44792	0.50	0.49		100.00	9576
15.430	15.430 (0.000)	65	4252			0.00- 82.86	9.49	
29 Chloroprene					CAS #: 126-99-8			
15.560	15.560 (0.932)	53	13992	0.50	0.45		100.00	7903
15.560	15.560 (0.000)	88	1618			0.00- 92.08	11.56	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.560	15.560 (0.000)	50	1070			0.00- 77.83	7.65	
30 Vinyl Acetate					CAS #: 108-05-4			
15.514	15.514 (0.930)	43	56284	0.50	0.38		100.00	5917(a)
15.514	15.514 (0.000)	86	992			0.00- 57.95	1.76	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.338	16.338 (0.979)	96	24683	0.50	0.47		100.00	9101(Q)
16.338	16.338 (0.000)	61	8551			70.56- 170.56	34.64	
16.338	16.338 (0.000)	98	4091			7.68- 107.68	16.57	
32 2-Butanone					CAS #: 78-93-3			
16.323	16.323 (0.978)	72	8907	0.50	0.42		100.00	7766(Q)
16.323	16.323 (0.000)	43	9821			345.05- 445.05	110.26	
16.323	16.323 (0.000)	57	618			0.00- 74.86	6.94	
34 Chloroform					CAS #: 67-66-3			
16.773	16.773 (1.005)	83	46061	0.50	0.48		100.00	8125
16.773	16.773 (0.000)	85	8585			10.95- 110.95	18.64	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.765	16.765 (1.005)	42	23680	0.50	0.46		100.00	7333
16.765	16.765 (0.000)	71	1794			0.00- 80.76	7.58	
16.765	16.765 (0.000)	72	2198			0.00- 87.69	9.28	
36 1,1,1-Trichloroethane					CAS #: 71-55-6			
17.055	17.055 (1.022)	97	44123	0.50	0.49		100.00	9537
17.055	17.055 (0.000)	99	8065			13.75- 113.75	18.28	
37 Cyclohexane					CAS #: 110-82-7			
17.139	17.139 (1.027)	56	41956	0.50	0.50		100.00	8184(Q)
17.139	17.139 (0.000)	84	8572			23.41- 123.41	20.43	
17.139	17.139 (0.000)	41	7796			16.76- 116.76	18.58	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.307	17.307 (1.037)	119	29590	0.50	0.41		100.00	6991
17.307	17.307 (0.000)	117	0			0.00- 50.00	0.00	
40 Benzene					CAS #: 71-43-2			
17.589	17.589 (0.975)	78	77996	0.50	0.48		100.00	9700
17.589	17.589 (0.000)	77	5151			0.00- 73.23	6.60	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.589	17.589 (0.975)	62	29633	0.50	0.47		100.00	8187
17.589	17.589 (0.000)	64	2769			0.00- 82.52	9.34	
42 Heptane					CAS #: 142-82-5			
17.810	17.810 (0.988)	43	50498	0.50	0.45		100.00	7604

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.810	17.810 (0.000)	57	8398			2.54- 102.54	16.63	
17.810	17.810 (0.000)	71	7675			0.00- 98.02	15.20	
44 Trichloroethene					CAS #: 79-01-6			
18.428	18.428 (1.022)	95	28883	0.50	0.46		100.00	7831(Q)
18.428	18.428 (0.000)	130	6035			24.68- 124.68	20.89	
18.428	18.428 (0.000)	97	4905			10.70- 110.70	16.98	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.741	18.741 (1.039)	63	25585	0.50	0.46		100.00	9515(Q)
18.741	18.741 (0.000)	62	4967			20.77- 120.77	19.41	
18.741	18.741 (0.000)	41	4996			21.18- 121.18	19.53	
46 1,4-Dioxane					CAS #: 123-91-1			
18.901	18.901 (1.048)	88	12618	0.50	0.42		100.00	8935
18.901	18.901 (0.000)	58	2294			15.56- 115.56	18.18	
18.901	18.901 (0.000)	57	975			0.00- 77.87	7.73	
47 Bromodichloromethane					CAS #: 75-27-4			
19.092	19.092 (1.059)	83	43291	0.50	0.44		100.00	9237
19.092	19.092 (0.000)	85	7151			9.04- 109.04	16.52	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.687	19.687 (1.092)	75	17015	0.72	0.62		100.00	9191
19.687	19.687 (0.000)	77	1764			0.00- 91.71	10.37	
19.687	19.687 (0.000)	39	2217			2.42- 102.42	13.03	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.802	19.802 (1.098)	43	53692	0.50	0.44		100.00	9481
19.802	19.802 (0.000)	58	5680			0.00- 87.30	10.58	
19.802	19.802 (0.000)	85	1907			0.00- 62.52	3.55	
51 Toluene					CAS #: 108-88-3			
20.168	20.168 (1.118)	92	43297	0.50	0.44		100.00	8444(Q)
20.168	20.168 (0.000)	91	22089			132.99- 232.99	51.02	
52 Octane					CAS #: 111-65-9			
20.152	20.152 (1.118)	57	20508	0.50	0.44		100.00	7415(Q)
20.152	20.152 (0.000)	85	6379			45.68- 145.68	31.10	
20.152	20.152 (0.000)	43	15346			180.18- 280.18	74.83	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.381	20.381 (0.919)	75	7379	0.10	0.13		100.00	4065
20.381	20.381 (0.000)	77	171			0.00- 60.23	2.32	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.687	20.687 (0.933)	97	23527	0.50	0.46		100.00	9685(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
0.687	20.687 (0.000)	99	3870			8.34- 108.34	16.45	
20.687	20.687 (0.000)	83	5623			34.77- 134.77	23.90	
55 Tetrachloroethene					CAS #: 127-18-4			
0.954	20.954 (0.945)	166	25844	0.50	0.45		100.00	8606(Q)
20.954	20.954 (0.000)	129	5624			25.01- 125.01	21.76	
0.954	20.954 (0.000)	131	5443			22.59- 122.59	21.06	
56 2-Hexanone					CAS #: 591-78-6			
0.923	20.923 (0.944)	43	45381	0.50	0.38		100.00	8349
0.923	20.923 (0.000)	58	6457			5.10- 105.10	14.23	
0.923	20.923 (0.000)	100	1108			0.00- 59.45	2.44	
57 Dibromochloromethane					CAS #: 124-48-1			
1.297	21.297 (0.961)	129	29234	0.50	0.42		100.00	8135
1.297	21.297 (0.000)	208	191			0.00- 52.39	0.65	
58 1,2-Dibromoethane					CAS #: 106-93-4			
1.518	21.518 (0.971)	107	30450	0.50	0.45		100.00	9568(Q)
21.518	21.518 (0.000)	109	6565			34.81- 134.81	21.56	
60 Chlorobenzene					CAS #: 108-90-7			
2.220	22.220 (1.002)	112	51906	0.50	0.46		100.00	8814
22.220	22.220 (0.000)	114	4471			0.00- 82.51	8.61	
22.220	22.220 (0.000)	77	7504			4.56- 104.56	14.46	
61 Ethyl Benzene					CAS #: 100-41-4			
22.296	22.296 (1.006)	106	29813	0.50	0.43		100.00	
22.296	22.296 (1.006)	91	103451			297.00- 397.00	347.00	
62 m,p-Xylene					CAS #: 108-38-3			
22.457	22.457 (1.013)	106	55694	1.0	0.82		100.00	
22.457	22.457 (1.013)	91	120203			165.83- 265.83	215.83	
63 o-Xylene					CAS #: 95-47-6			
23.136	23.136 (1.044)	106	17642	0.50	0.42		100.00	9410(Q)
3.136	23.136 (0.000)	91	8283			134.56- 234.56	46.95	
64 Styrene					CAS #: 100-42-5			
23.143	23.143 (1.044)	104	32709	0.50	0.37		100.00	9444
3.143	23.143 (0.000)	78	3633			0.00- 95.19	11.11	
65 Bromoform					CAS #: 75-25-2			
3.563	23.563 (1.063)	171	12636	0.50	0.38		100.00	8554(Q)
3.563	23.563 (0.000)	173	5870			146.98- 246.98	46.45	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
4.181	24.181 (1.091)	83	49062	0.50	0.47		100.00	8028

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.181	24.181 (0.000)	85	6781			12.99- 112.99	13.82	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.585	24.585 (1.109)	105	58625	0.50	0.41		100.00	9412(M)
24.593	24.593 (1.109)	120	15198	0.50	0.42	0.00- 77.10	25.92	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.684	24.684 (1.114)	105	24668	0.50	0.36		100.00	7605(QMH)
24.684	24.684 (1.114)	120	12431	0.50	0.40	106.21- 206.21	50.39	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.440	25.440 (1.148)	105	21527	0.50	0.39		100.00	8355
25.440	25.440 (0.000)	120	2059			0.00- 91.22	9.56	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.172	26.172 (1.181)	146	28570	0.50	0.41		100.00	
26.164	26.164 (1.180)	148	18554			14.94- 114.94	64.94	
26.172	26.172 (1.181)	111	14543			0.90- 100.90	50.90	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.332	26.332 (1.188)	146	27217	0.50	0.40		100.00	
26.355	26.355 (1.189)	148	16966			12.34- 112.34	62.34	
26.340	26.340 (1.188)	111	13202			0.00- 98.51	48.51	
74 Benzyl Chloride					CAS #: 100-44-7			
26.584	26.584 (1.199)	91	46044	0.50	0.35		100.00	8814
26.584	26.584 (0.000)	126	1452			0.00- 66.13	3.15	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.225	27.225 (1.228)	146	26127	0.50	0.42		100.00	9213
27.225	27.225 (0.000)	148	3024			10.67- 110.67	11.57	
27.225	27.225 (0.000)	111	1788			0.00- 85.87	6.84	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.619	31.619 (1.426)	180	10914	0.50	0.41		100.00	9082(Q)
31.619	31.619 (0.000)	182	1603			32.25- 132.25	14.69	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.031	32.031 (1.445)	225	12554	0.50	0.45		100.00	8791
32.031	32.031 (0.000)	223	1306			8.04- 108.04	10.40	

QC Flag Legend

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

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010905.d Page 1
Report Date: 09-Jan-1997 12:09

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010905.d
Lab Smp Id: VSTD0005
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD0005
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	193877	0.92
43 1,4-Difluorobenzene	832855	499713	1165997	850139	2.08
59 Chlorobenzene-d5	625059	375035	875083	656394	5.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.69	-0.02
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.03	-0.01
59 Chlorobenzene-d5	22.16	21.66	22.66	22.17	0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

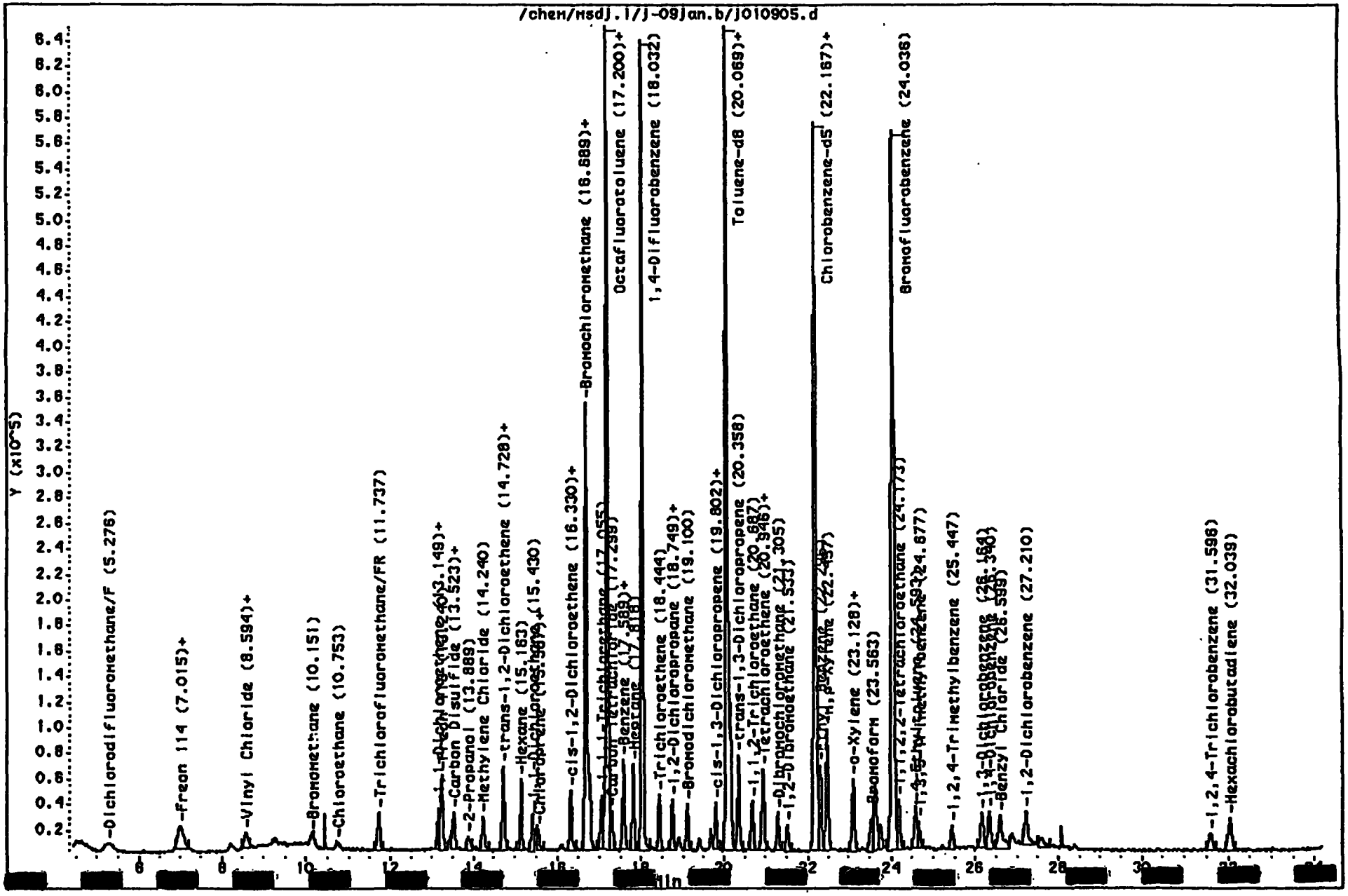
0127

Data File: /chem/hsdj.l/j-09jan.b/j010905.d
Date : 09-JAN-1997 10:04
Client ID: VSTD0005
Sample Info: 2.5ml #296-25 100ppbv (0.5ppbv)

Column phase: RTx-624

Instrument: hsdj.l

Operator: FR
Column diameter: 0.58



Data File: /chem/msdj.i/j-09jan.b/j010906.d
Report Date: 09-Jan-1997 14:16

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010906.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 09-JAN-1997 10:44
Operator : FA Inst ID: msdj.i
Smp Info : 25.0ml #296-25 100ppbv (5.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:16 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:08 Cal File: j010908.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

					AMOUNTS CAL-AMT	ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane						CAS #: 74-97-5			
16.691	16.691 (1.000)	130	192118		5.0			100.00	9568(Q)
16.691	16.691 (0.000)	128	44008				27.84- 127.84	22.91	
16.691	16.691 (0.000)	49	104608				135.03- 235.03	54.45	
* 43 1,4-Difluorobenzene						CAS #: 540-36-3			
18.034	18.034 (1.000)	114	832855		5.0			100.00	9727
18.034	18.034 (0.000)	88	44176				0.00- 67.42	5.30	
* 59 Chlorobenzene-d5						CAS #: 3114-55-4			
22.162	22.162 (1.000)	117	625059		5.0			100.00	7743
22.162	22.162 (0.000)	82	147072				23.02- 123.02	23.53	
$ 39 Octafluorotoluene						CAS #: 434-64-0			
17.210	17.210 (1.031)	217	423557		5.0	4.8		100.00	9824
17.210	17.210 (0.000)	186	85760				14.15- 114.15	20.25	
$ 50 Toluene-d8						CAS #: 2037-26-5			
20.071	20.071 (1.113)	98	747546		5.0	5.0		100.00	9758
20.071	20.071 (0.000)	70	27300				0.00- 62.71	3.65	
20.071	20.071 (0.000)	100	139904				15.16- 115.16	18.72	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
66 Bromofluorobenzene					CAS #: 460-00-4			
24.038	24.038 (1.085)	95	495314	5.0	5.1		100.00	9690
24.038	24.038 (0.000)	174	71272			10.63- 110.63	14.39	
24.038	24.038 (0.000)	176	66416			6.50- 106.50	13.41	
1 Propylene					CAS #: 115-07-1			
4.683	4.683 (0.281)	41	132016	5.0	4.1		100.00	7657(Q)
4.683	4.683 (0.000)	42	6001			10.63- 110.63	4.55	
4.683	4.683 (0.000)	39	6312			13.77- 113.77	4.78	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
5.263	5.263 (0.315)	85	581123	5.0	4.8		100.00	9571
5.263	5.263 (0.000)	87	12882			0.00- 81.97	2.22	
7 Freon 114					CAS #: 76-14-2			
7.018	7.018 (0.420)	135	425798	5.0	4.9		100.00	9745
7.018	7.018 (0.000)	137	13045			0.00- 82.14	3.06	
8 Chloromethane					CAS #: 74-87-3			
7.140	7.140 (0.428)	50	249285	5.0	4.9		100.00	9498
7.140	7.140 (0.000)	52	5860			0.00- 87.12	2.35	
9 Vinyl Chloride					CAS #: 75-01-4			
8.246	8.246 (0.494)	62	266334	5.0	5.0		100.00	9534
8.246	8.246 (0.000)	64	7965			0.00- 77.24	2.99	
10 1,3-Butadiene					CAS #: 106-99-0			
8.589	8.589 (0.515)	54	202031	5.0	5.0		100.00	9778(Q)
8.589	8.589 (0.000)	39	31153			48.46- 148.46	15.42	
11 Bromomethane					CAS #: 74-83-9			
10.161	10.161 (0.609)	94	215407	5.0	4.8		100.00	9526(Q)
10.161	10.161 (0.000)	96	36192			48.31- 148.31	16.80	
12 Chloroethane					CAS #: 75-00-3			
10.741	10.741 (0.643)	64	155805	5.0	5.0		100.00	9645
10.741	10.741 (0.000)	66	9294			0.00- 81.47	5.97	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
11.717	11.717 (0.702)	101	601167	5.0	5.1		100.00	9840
11.717	11.717 (0.000)	103	82176			11.64- 111.64	13.67	
15 Ethanol					CAS #: 64-17-5			
12.747	12.747 (0.764)	45	102015	5.0	6.5		100.00	(H)
12.747	12.747 (0.764)	46	42245			0.00- 91.41	41.41	
12.747	12.747 (0.764)	43	23904			0.00- 73.43	23.43	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.144	13.144 (0.787)	96	238265	5.0	5.8		100.00	9305(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.144	13.144 (0.000)	61	122000			127.49- 227.49	51.20	
13.144	13.144 (0.000)	98	43168			12.80- 112.80	18.12	
18 Freon 113					CAS #: 76-13-1			
13.235	13.235 (0.793)	151	324843	5.0	5.0		100.00	9290(Q)
13.235	13.235 (0.000)	153	48984			13.46- 113.46	15.08	
13.235	13.235 (0.000)	101	120300			105.85- 205.85	37.03	
19 Carbon Disulfide					CAS #: 75-15-0			
13.518	13.518 (0.810)	76	733514	5.0	5.0		100.00	8027
20 Acetone					CAS #: 67-64-1			
13.388	13.388 (0.802)	43	462729	5.0	6.1		100.00	
13.388	13.388 (0.802)	58	138984			0.00- 80.04	30.04	
22 2-Propanol					CAS #: 67-63-0			
13.869	13.869 (0.831)	45	488232	5.0	5.2		100.00	7544
13.869	13.869 (0.000)	43	26146			0.00- 70.31	5.36	
13.869	13.869 (0.000)	59	5069			0.00- 53.94	1.04	
23 Methylene Chloride					CAS #: 75-09-2			
14.242	14.242 (0.853)	84	224066	5.0	5.1		100.00	9651(Q)
14.242	14.242 (0.000)	49	101848			104.22- 204.22	45.45	
14.242	14.242 (0.000)	51	32472			0.00- 99.17	14.49	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.731	14.731 (0.883)	96	241682	5.0	4.9		100.00	9589(Q)
14.731	14.731 (0.000)	61	118536			107.35- 207.35	49.05	
14.731	14.731 (0.000)	98	49080			15.15- 115.15	20.31	
26 MTBE					CAS #: 1634-04-4			
14.731	14.731 (0.883)	73	646033	5.0	5.0		100.00	6447
14.731	14.731 (0.000)	57	43376			0.00- 74.88	6.71	
14.731	14.731 (0.000)	41	43978			0.00- 75.22	6.81	
27 Hexane					CAS #: 110-54-3			
15.166	15.166 (0.909)	57	455982	5.0	5.1		100.00	7284
15.166	15.166 (0.000)	43	101843			19.51- 119.51	22.33	
15.166	15.166 (0.000)	56	75048			1.22- 101.22	16.46	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.440	15.440 (0.925)	63	458422	5.0	5.0		100.00	9634
15.440	15.440 (0.000)	65	41836			0.00- 80.49	9.13	
29 Chloroprene					CAS #: 126-99-8			
15.570	15.570 (0.933)	53	161430	5.0	5.2		100.00	7889
15.570	15.570 (0.000)	88	24764			0.00- 99.91	15.34	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.570	15.570 (0.000)	50	12487			0.00- 75.17	7.74	
30 Vinyl Acetate					CAS #: 108-05-4			
15.501	15.501 (0.929)	43	749635	5.0	5.1		100.00	5945
15.501	15.501 (0.000)	86	16469			0.00- 57.56	2.20	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.333	16.333 (0.979)	96	257903	5.0	5.0		100.00	9750(Q)
16.333	16.333 (0.000)	61	111071			98.98- 198.98	43.07	
16.333	16.333 (0.000)	98	48344			14.85- 114.85	18.75	
32 2-Butanone					CAS #: 78-93-3			
16.318	16.318 (0.978)	72	108129	5.0	5.1		100.00	7902(Q)
16.318	16.318 (0.000)	43	148791			434.74- 534.74	137.61	
16.318	16.318 (0.000)	57	9883			0.00- 82.20	9.14	
34 Chloroform					CAS #: 67-66-3			
16.775	16.775 (1.005)	83	481526	5.0	5.0		100.00	9184
16.775	16.775 (0.000)	85	94335			15.56- 115.56	19.59	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.760	16.760 (1.004)	42	250622	5.0	5.0		100.00	7488
16.760	16.760 (0.000)	71	26184			0.00- 87.36	10.45	
16.760	16.760 (0.000)	72	26934			0.00- 88.43	10.75	
36 1,1,1-Trichloroethane					CAS #: 71-55-6			
17.058	17.058 (1.022)	97	451490	5.0	5.0		100.00	9740
17.058	17.058 (0.000)	99	82088			12.67- 112.67	18.18	
37 Cyclohexane					CAS #: 110-82-7			
17.142	17.142 (1.027)	56	427842	5.0	5.1		100.00	8284(Q)
17.142	17.142 (0.000)	84	88251			21.88- 121.88	20.63	
17.142	17.142 (0.000)	41	72107			8.73- 108.73	16.85	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.309	17.309 (1.037)	119	357938	5.0	5.0		100.00	8578
17.309	17.309 (0.000)	117	40536			0.00- 89.33	11.32	
40 Benzene					CAS #: 71-43-2			
17.584	17.584 (0.975)	78	791151	5.0	5.0		100.00	9696
17.584	17.584 (0.000)	77	56750			0.00- 74.08	7.17	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.592	17.592 (0.975)	62	310040	5.0	5.0		100.00	8186
17.592	17.592 (0.000)	64	27950			0.00- 81.12	9.01	
42 Heptane					CAS #: 142-82-5			
17.821	17.821 (0.988)	43	546632	5.0	5.0		100.00	7677

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.821	17.821 (0.000)	57	84824			0.00- 98.34	15.52	
17.821	17.821 (0.000)	71	85616			0.00- 98.79	15.66	
44 Trichloroethene					CAS #: 79-01-6			
18.446	18.446 (1.023)	95	299983	5.0	4.9		100.00	7806(Q)
18.446	18.446 (0.000)	130	76000			35.60- 135.60	25.33	
18.446	18.446 (0.000)	97	56528			13.67- 113.67	18.84	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.751	18.751 (1.040)	63	276157	5.0	5.0		100.00	9705(Q)
18.751	18.751 (0.000)	62	61215			25.80- 125.80	22.17	
18.751	18.751 (0.000)	41	48193			9.67- 109.67	17.45	
46 1,4-Dioxane					CAS #: 123-91-1			
18.904	18.904 (1.048)	88	145083	5.0	4.9		100.00	9791(Q)
18.904	18.904 (0.000)	58	31616			28.21- 128.21	21.79	
18.904	18.904 (0.000)	57	10561			0.00- 76.12	7.28	
47 Bromodichloromethane					CAS #: 75-27-4			
19.102	19.102 (1.059)	83	475564	5.0	4.9		100.00	9379
19.102	19.102 (0.000)	85	86136			13.39- 113.39	18.11	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.682	19.682 (1.091)	75	193547	7.2	7.1		100.00	9557
19.682	19.682 (0.000)	77	16863			0.00- 80.06	8.71	
19.682	19.682 (0.000)	39	33537			9.78- 109.78	17.33	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.804	19.804 (1.098)	43	590585	5.0	5.0		100.00	9640
19.804	19.804 (0.000)	58	62135			0.00- 85.05	10.52	
19.804	19.804 (0.000)	85	21217			0.00- 61.97	3.59	
51 Toluene					CAS #: 108-88-3			
20.170	20.170 (1.118)	92	473090	5.0	4.9		100.00	9459(Q)
20.170	20.170 (0.000)	91	229824			118.43- 218.43	48.58	
52 Octane					CAS #: 111-65-9			
20.147	20.147 (1.117)	57	211213	5.0	4.7		100.00	8365(Q)
20.147	20.147 (0.000)	85	68920			48.51- 148.51	32.63	
20.147	20.147 (0.000)	43	186907			217.16- 317.16	88.49	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.399	20.399 (0.920)	75	51084	1.0	0.96		100.00	9676
20.399	20.399 (0.000)	77	3997			0.00- 77.26	7.82	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.689	20.689 (0.934)	97	254127	5.0	5.2		100.00	9745(Q)

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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.689	20.689 (0.000)	99	42120			8.45- 108.45	16.57	
20.689	20.689 (0.000)	83	63523			38.16- 138.16	25.00	
55 Tetrachloroethene					CAS #: 127-18-4			
20.956	20.956 (0.946)	166	276775	5.0	5.0		100.00	9270(Q)
20.956	20.956 (0.000)	129	64904			33.09- 133.09	23.45	
20.956	20.956 (0.000)	131	62344			29.81- 129.81	22.53	
56 2-Hexanone					CAS #: 591-78-6			
20.918	20.918 (0.944)	43	607966	5.0	5.3		100.00	8560
20.918	20.918 (0.000)	58	87648			0.00- 99.38	14.42	
20.918	20.918 (0.000)	100	16046			0.00- 59.04	2.64	
57 Dibromochloromethane					CAS #: 124-48-1			
21.307	21.307 (0.961)	129	340343	5.0	5.1		100.00	8205
21.307	21.307 (0.000)	208	4327			0.00- 54.97	1.27	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.528	21.528 (0.971)	107	335245	5.0	5.2		100.00	9790(Q)
21.528	21.528 (0.000)	109	80849			43.25- 143.25	24.12	
60 Chlorobenzene					CAS #: 108-90-7			
22.215	22.215 (1.002)	112	531080	5.0	5.0		100.00	9327
22.215	22.215 (0.000)	114	43088			0.00- 81.47	8.11	
22.215	22.215 (0.000)	77	87313			13.78- 113.78	16.44	
61 Ethyl Benzene					CAS #: 100-41-4			
22.299	22.299 (1.006)	106	331290	5.0	5.0		100.00	(H)
22.299	22.299 (1.006)	91	1148684			296.73- 396.73	346.73	
62 m,p-Xylene					CAS #: 108-38-3			
22.459	22.459 (1.013)	106	634566	10.0	9.8		100.00	(H)
22.459	22.459 (1.013)	91	1362372			164.69- 264.69	214.69	
63 o-Xylene					CAS #: 95-47-6			
23.123	23.123 (1.043)	106	200467	5.0	5.0		100.00	9728(Q)
23.123	23.123 (0.000)	91	112061			165.83- 265.83	55.90	
64 Styrene					CAS #: 100-42-5			
23.130	23.130 (1.044)	104	416695	5.0	5.0		100.00	9894
23.130	23.130 (0.000)	78	50240			0.00- 98.72	12.06	
65 Bromoform					CAS #: 75-25-2			
23.558	23.558 (1.063)	171	164546	5.0	5.1		100.00	8420(Q)
23.558	23.558 (0.000)	173	74536			143.98- 243.98	45.30	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.176	24.176 (1.091)	83	530413	5.0	5.4		100.00	9128

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.176	24.176 (0.000)	85	77792			12.69- 112.69	14.67	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.595	24.595 (1.110)	105	649945	5.0	4.8		100.00	9362(M)
24.595	24.595 (1.110)	120	163682	5.0	4.7	0.00- 76.35	25.18	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.114)	105	326222	5.0	5.0		100.00	7991(M)
24.679	24.679 (1.114)	120	150504	5.0	5.0	0.00- 94.84	46.14	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.442	25.442 (1.148)	105	260129	5.0	5.0		100.00	8825
25.442	25.442 (0.000)	120	23798			0.00- 89.84	9.15	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.167	26.167 (1.181)	146	329109	5.0	5.0		100.00	
26.167	26.167 (1.181)	148	203666			11.88- 111.88	61.88	
26.167	26.167 (1.181)	111	153610			0.00- 96.67	46.67	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.342	26.342 (1.189)	146	323634	5.0	5.0		100.00	(H)
26.350	26.350 (1.189)	148	206187			13.71- 113.71	63.71	
26.350	26.350 (1.189)	111	144826			0.00- 94.75	44.75	
74 Benzyl Chloride					CAS #: 100-44-7			
26.594	26.594 (1.200)	91	617072	5.0	4.9		100.00	9278
26.594	26.594 (0.000)	126	21120			0.00- 66.49	3.42	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.227	27.227 (1.229)	146	294962	5.0	5.0		100.00	9764(Q)
27.227	27.227 (0.000)	148	35896			13.77- 113.77	12.17	
27.227	27.227 (0.000)	111	26496			0.00- 97.07	8.98	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.607	31.607 (1.426)	180	116181	5.0	4.6		100.00	9678(Q)
31.607	31.607 (0.000)	182	17792			45.53- 145.53	15.31	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.041	32.041 (1.446)	225	131070	5.0	5.0		100.00	9470
32.041	32.041 (0.000)	223	12093			7.67- 107.67	9.23	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010906.d
Report Date: 09-Jan-1997 12:02

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010906.d
Lab Smp Id: VSTD005
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD005
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	192118	0.00
43 1,4-Difluorobenzene	832855	499713	1165997	832855	0.00
59 Chlorobenzene-d5	625059	375035	875083	625059	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.69	0.00
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.03	0.00
59 Chlorobenzene-d5	22.16	21.66	22.66	22.16	0.00

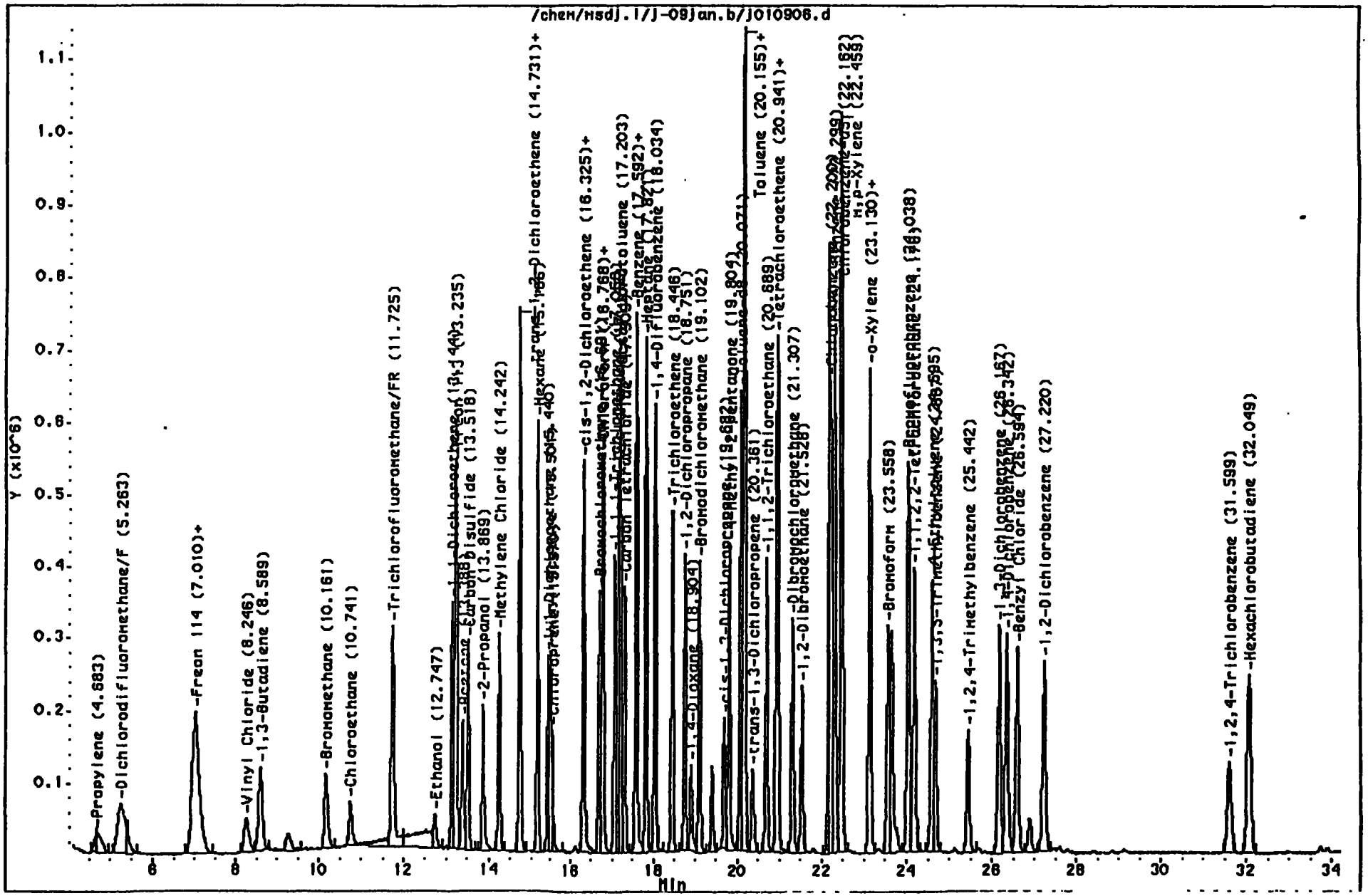
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/hsdj.l/j-09jan.b/j010906.d
Date : 09-JAN-97 10:44
Client ID: VSTD005
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

Instrument: hsdj.l

Operator: FA
Column diameter: 0.58

Column phase: RTx-624



Data File: /chem/msdj.i/j-09jan.b/j010907.d
Report Date: 09-Jan-1997 14:23

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010907.d
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 09-JAN-1997 11:27
Operator : FA Inst ID: msdj.i
Smp Info : 50.0ml #296-25 100ppbv (10.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:23 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
*	33 Bromochloromethane					CAS #: 74-97-5			
	16.692	16.692 (1.000)	130	194531	5.0			100.00	9585(Q)
	16.692	16.692 (0.000)	128	46640			28.83- 128.83	23.98	
	16.692	16.692 (0.000)	49	105128			127.68- 227.68	54.04	
*	43 1,4-Difluorobenzene					CAS #: 540-36-3			
	18.035	18.035 (1.000)	114	829384	5.0			100.00	9727
	18.035	18.035 (0.000)	88	42960			0.00- 67.19	5.18	
*	59 Chlorobenzene-d5					CAS #: 3114-55-4			
	22.177	22.177 (1.000)	117	656545	5.0			100.00	9779
	22.177	22.177 (0.000)	82	97501			8.55- 108.55	14.85	
$	39 Octafluorotoluene					CAS #: 434-64-0			
	17.211	17.211 (1.031)	217	432836	5.0	4.8		100.00	9817
	17.211	17.211 (0.000)	186	88920			15.29- 115.29	20.54	
$	50 Toluene-d8					CAS #: 2037-26-5			
	20.072	20.072 (1.113)	98	741386	5.0	4.9		100.00	9806
	20.072	20.072 (0.000)	70	26760			0.00- 62.48	3.61	
	20.072	20.072 (0.000)	100	141504			15.98- 115.98	19.09	

Data File: /chem/msdj.i/j-09jan.b/j010907.d
Report Date: 09-Jan-1997 14:23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 66 Bromofluorobenzene					CAS #: 460-00-4			
24.039	24.039 (1.084)	95	502078	5.0	4.9		100.00	9719
24.039	24.039 (0.000)	174	70424			8.48- 108.48	14.03	
24.039	24.039 (0.000)	176	69328			7.57- 107.57	13.81	
1 Propylene					CAS #: 115-07-1			
4.699	4.699 (0.281)	41	258056	10.0	7.9		100.00	7686(Q)
4.699	4.699 (0.000)	42	12169			14.10- 114.10	4.72	
4.699	4.699 (0.000)	39	13451			20.85- 120.85	5.21	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
5.256	5.256 (0.315)	85	1149323	10.0	9.5		100.00	0(M)
5.263	5.263 (0.315)	87	0			0.00- 50.00	0.00	
7 Freon 114					CAS #: 76-14-2			
7.003	7.003 (0.420)	135	856913	10.0	9.8		100.00	9810
7.003	7.003 (0.000)	137	24496			0.00- 80.98	2.86	
8 Chloromethane					CAS #: 74-87-3			
7.117	7.117 (0.426)	50	477700	10.0	9.4		100.00	9127(M)
7.117	7.117 (0.426)	52	12892			0.00- 79.23	2.70	
9 Vinyl Chloride					CAS #: 75-01-4			
8.231	8.231 (0.493)	62	526994	10.0	9.7		100.00	9634
8.231	8.231 (0.000)	64	17504			0.00- 80.10	3.32	
10 1,3-Butadiene					CAS #: 106-99-0			
8.582	8.582 (0.514)	54	398402	10.0	9.7		100.00	9690(Q)
8.582	8.582 (0.000)	39	66407			56.78- 156.78	16.67	
11 Bromomethane					CAS #: 74-83-9			
10.161	10.161 (0.609)	94	429983	10.0	9.6		100.00	9504(Q)
10.161	10.161 (0.000)	96	72432			45.14- 145.14	16.85	
12 Chloroethane					CAS #: 75-00-3			
10.741	10.741 (0.643)	64	306321	10.0	9.8		100.00	9641
10.741	10.741 (0.000)	66	19056			0.00- 82.76	6.22	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
11.725	11.725 (0.702)	101	1211530	10.0	10.1		100.00	9872
11.725	11.725 (0.000)	103	171338			13.13- 113.13	14.14	
15 Ethanol					CAS #: 64-17-5			
12.740	12.740 (0.763)	45	209536	10.0	13.1		100.00	
12.740	12.740 (0.763)	46	86610			0.00- 91.33	41.33	
12.747	12.747 (0.764)	43	55261			0.00- 76.37	26.37	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.144	13.144 (0.787)	96	483721	10.0	11.6		100.00	9350(Q)

Data File: /chem/msdj.i/j-09jan.b/j010907.d
Report Date: 09-Jan-1997 14:23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.144	13.144 (0.000)	61	240960			125.93- 225.93	49.81	
13.144	13.144 (0.000)	98	87784			14.09- 114.09	18.15	
18 Freon 113					CAS #: 76-13-1			
13.236	13.236 (0.793)	151	654914	10.0	10.0		100.00	9310(Q)
13.236	13.236 (0.000)	153	100016			14.05- 114.05	15.27	
13.236	13.236 (0.000)	101	243927			106.20- 206.20	37.25	
19 Carbon Disulfide					CAS #: 75-15-0			
13.518	13.518 (0.810)	76	1480262	10.0	10.1		100.00	8114
20 Acetone					CAS #: 67-64-1			
13.381	13.381 (0.802)	43	918530	10.0	11.9		100.00	
13.381	13.381 (0.802)	58	271567			0.00- 79.57	29.57	
22 2-Propanol					CAS #: 67-63-0			
13.861	13.861 (0.830)	45	1005549	10.0	10.5		100.00	7544
13.861	13.861 (0.000)	43	52124			0.00- 69.13	5.18	
13.861	13.861 (0.000)	59	9763			0.00- 53.58	0.97	
23 Methylene Chloride					CAS #: 75-09-2			
14.243	14.243 (0.853)	84	447204	10.0	10.0		100.00	9680(Q)
14.243	14.243 (0.000)	49	199296			98.64- 198.64	44.56	
14.243	14.243 (0.000)	51	62830			0.00- 96.86	14.05	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.731	14.731 (0.883)	96	495935	10.0	10		100.00	9554(Q)
14.731	14.731 (0.000)	61	242688			104.97- 204.97	48.94	
14.731	14.731 (0.000)	98	99576			13.58- 113.58	20.08	
26 MTBE					CAS #: 1634-04-4			
14.731	14.731 (0.883)	73	1319582	10.0	10.1		100.00	6461
14.731	14.731 (0.000)	57	88400			0.00- 74.03	6.70	
14.731	14.731 (0.000)	41	92845			0.00- 75.24	7.04	
27 Hexane					CAS #: 110-54-3			
15.158	15.158 (0.908)	57	911208	10.0	10.0		100.00	7287
15.158	15.158 (0.000)	43	197960			20.00- 120.00	21.73	
15.158	15.158 (0.000)	56	149251			2.77- 102.77	16.38	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.433	15.433 (0.925)	63	918113	10.0	10		100.00	9642
15.433	15.433 (0.000)	65	86120			0.00- 81.51	9.38	
29 Chloroprene					CAS #: 126-99-8			
15.570	15.570 (0.933)	53	317266	10.0	10.1		100.00	7811
15.570	15.570 (0.000)	88	48808			1.16- 101.16	15.38	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.570	15.570 (0.000)	50	24414			0.00- 75.59	7.70	
30 Vinyl Acetate					CAS #: 108-05-4			
15.502	15.502 (0.929)	43	1534361	10.0	10.4		100.00	5917
15.502	15.502 (0.000)	86	35081			0.00- 57.73	2.29	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.333	16.333 (0.979)	96	532049	10.0	10.1		100.00	9734(Q)
16.333	16.333 (0.000)	61	219520			87.25- 187.25	41.26	
16.333	16.333 (0.000)	98	99024			11.91- 111.91	18.61	
32 2-Butanone					CAS #: 78-93-3			
16.318	16.318 (0.978)	72	218074	10.0	10.2		100.00	7901(Q)
16.318	16.318 (0.000)	43	310225			447.09- 547.09	142.26	
16.318	16.318 (0.000)	57	21626			0.00- 84.65	9.92	
34 Chloroform					CAS #: 67-66-3			
16.776	16.776 (1.005)	83	977840	10.0	10.1		100.00	9186
16.776	16.776 (0.000)	85	192128			14.95- 114.95	19.65	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.760	16.760 (1.004)	42	520480	10.0	10.2		100.00	7505
16.760	16.760 (0.000)	71	52207			0.00- 86.02	10.03	
16.760	16.760 (0.000)	72	57134			0.00- 89.42	10.98	
36 1,1,1-Trichloroethane					CAS #: 71-55-6			
17.058	17.058 (1.022)	97	902963	10.0	10		100.00	9734
17.058	17.058 (0.000)	99	170240			17.27- 117.27	18.85	
37 Cyclohexane					CAS #: 110-82-7			
17.142	17.142 (1.027)	56	848215	10.0	10		100.00	8271(Q)
17.142	17.142 (0.000)	84	183295			24.74- 124.74	21.61	
17.142	17.142 (0.000)	41	148601			10.59- 110.59	17.52	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.310	17.310 (1.037)	119	734580	10.0	10.2		100.00	9451(Q)
17.310	17.310 (0.000)	117	166768			27.68- 127.68	22.70	
40 Benzene					CAS #: 71-43-2			
17.584	17.584 (0.975)	78	1568102	10.0	9.9		100.00	9737
17.584	17.584 (0.000)	77	112752			0.00- 74.19	7.19	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.600	17.600 (0.976)	62	618858	10.0	10		100.00	8448
17.600	17.600 (0.000)	64	57624			0.00- 82.18	9.31	
42 Heptane					CAS #: 142-82-5			
17.821	17.821 (0.988)	43	1084527	10.0	9.9		100.00	7674

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.821	17.821 (0.000)	57	168994			0.00- 98.18	15.58	
17.821	17.821 (0.000)	71	172928			0.00- 99.30	15.95	
44 Trichloroethene					CAS #: 79-01-6			
18.446	18.446 (1.023)	95	601904	10.0	9.9		100.00	7790(Q)
18.446	18.446 (0.000)	130	159808			38.73- 138.73	26.55	
18.446	18.446 (0.000)	97	114616			13.64- 113.64	19.04	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.752	18.752 (1.040)	63	549958	10.0	10.1		100.00	9737(Q)
18.752	18.752 (0.000)	62	120608			25.56- 125.56	21.93	
18.752	18.752 (0.000)	41	98518			11.72- 111.72	17.91	
46 1,4-Dioxane					CAS #: 123-91-1			
18.904	18.904 (1.048)	88	299209	10.0	10.1		100.00	9787(Q)
18.904	18.904 (0.000)	58	64336			25.46- 125.46	21.50	
18.904	18.904 (0.000)	57	21249			0.00- 74.92	7.10	
47 Bromodichloromethane					CAS #: 75-27-4			
19.110	19.110 (1.060)	83	965243	10.0	10.0		100.00	9372
19.110	19.110 (0.000)	85	170112			11.51- 111.51	17.62	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.682	19.682 (1.091)	75	393646	14.4	14.6		100.00	9657
19.682	19.682 (0.000)	77	35827			0.00- 81.77	9.10	
19.682	19.682 (0.000)	39	64781			7.45- 107.45	16.46	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.805	19.805 (1.098)	43	1205412	10.0	10.2		100.00	9604
19.805	19.805 (0.000)	58	124570			0.00- 84.95	10.33	
19.805	19.805 (0.000)	85	41828			0.00- 61.74	3.47	
51 Toluene					CAS #: 108-88-3			
20.171	20.171 (1.118)	92	940562	10.0	9.8		100.00	9732(Q)
20.171	20.171 (0.000)	91	465216			118.81- 218.81	49.46	
52 Octane					CAS #: 111-65-9			
20.148	20.148 (1.117)	57	429505	10.0	9.6		100.00	8414(Q)
20.148	20.148 (0.000)	85	140416			50.22- 150.22	32.69	
20.148	20.148 (0.000)	43	382805			223.22- 323.22	89.13	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.400	20.400 (0.920)	75	101902	2.0	1.8		100.00	9245
20.400	20.400 (0.000)	77	8316			0.00- 79.62	8.16	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.689	20.689 (0.933)	97	510323	10.0	10.0		100.00	9792(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.689	20.689 (0.000)	99	89288			12.79- 112.79	17.50	
20.689	20.689 (0.000)	83	126712			39.10- 139.10	24.83	
55 Tetrachloroethene					CAS #: 127-18-4			
20.956	20.956 (0.945)	166	565139	10.0	9.8		100.00	9457(Q)
20.956	20.956 (0.000)	129	132608			32.85- 132.85	23.46	
20.956	20.956 (0.000)	131	125792			28.59- 128.59	22.26	
56 2-Hexanone					CAS #: 591-78-6			
20.918	20.918 (0.943)	43	1250843	10.0	10.4		100.00	8563
20.918	20.918 (0.000)	58	181333			0.00- 98.87	14.50	
20.918	20.918 (0.000)	100	32360			0.00- 58.72	2.59	
57 Dibromochloromethane					CAS #: 124-48-1			
21.307	21.307 (0.961)	129	702778	10.0	10.1		100.00	8302
21.307	21.307 (0.000)	208	7833			0.00- 54.22	1.11	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.529	21.529 (0.971)	107	670643	10.0	10		100.00	9740(Q)
21.529	21.529 (0.000)	109	167872			46.40- 146.40	25.03	
60 Chlorobenzene					CAS #: 108-90-7			
22.215	22.215 (1.002)	112	1096315	10.0	9.8		100.00	9652
22.215	22.215 (0.000)	114	89592			0.00- 81.98	8.17	
22.215	22.215 (0.000)	77	170703			10.92- 110.92	15.57	
61 Ethyl Benzene					CAS #: 100-41-4			
22.299	22.299 (1.006)	106	670810	10.0	9.6		100.00	(H)
22.299	22.299 (1.006)	91	2322710			296.25- 396.25	346.25	
62 m,p-Xylene					CAS #: 108-38-3			
22.459	22.459 (1.013)	106	1286569	20.0	18.9		100.00	(H)
22.459	22.459 (1.013)	91	2765569			164.96- 264.96	214.96	
63 o-Xylene					CAS #: 95-47-6			
23.131	23.131 (1.043)	106	404830	10.0	9.6		100.00	9569(Q)
23.131	23.131 (0.000)	91	224221			166.39- 266.39	55.39	
64 Styrene					CAS #: 100-42-5			
23.138	23.138 (1.043)	104	872225	10.0	9.9		100.00	9757
23.138	23.138 (0.000)	78	104280			0.00- 98.09	11.96	
65 Bromoform					CAS #: 75-25-2			
23.558	23.558 (1.062)	171	338006	10.0	10.0		100.00	8405(Q)
23.558	23.558 (0.000)	173	150656			141.89- 241.89	44.57	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.176	24.176 (1.090)	83	1018077	10.0	9.8		100.00	9435

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.176	24.176 (0.000)	85	144384			11.12- 111.12	14.18	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.596	24.596 (1.109)	105	1387130	10.0	9.8		100.00	9331(M)
24.596	24.596 (1.109)	120	352472	10.0	9.7	0.00- 76.11	25.41	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.113)	105	671249	10.0	9.9		100.00	7955(M)
24.680	24.680 (1.113)	120	314188	10.0	10.0	0.00- 93.88	46.81	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.442	25.442 (1.147)	105	538762	10.0	9.8		100.00	8886
25.442	25.442 (0.000)	120	51321			0.00- 92.53	9.53	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.175	26.175 (1.180)	146	660635	10.0	9.5		100.00	
26.167	26.167 (1.180)	148	422142			13.90- 113.90	63.90	
26.167	26.167 (1.180)	111	308151			0.00- 96.64	46.64	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.350	26.350 (1.188)	146	655856	10.0	9.6		100.00	(H)
26.350	26.350 (1.188)	148	416047			13.44- 113.44	63.44	
26.343	26.343 (1.188)	111	292687			0.00- 94.63	44.63	
74 Benzyl Chloride					CAS #: 100-44-7			
26.595	26.595 (1.199)	91	1284507	10.0	9.8		100.00	9391
26.595	26.595 (0.000)	126	43440			0.00- 66.70	3.38	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.228	27.228 (1.228)	146	600206	10.0	9.6		100.00	9763
27.228	27.228 (0.000)	148	70847			11.02- 111.02	11.80	
27.228	27.228 (0.000)	111	55444			0.00- 97.75	9.24	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.607	31.607 (1.425)	180	223116	10.0	8.5		100.00	9749(Q)
31.607	31.607 (0.000)	182	33584			43.33- 143.33	15.05	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.049	32.049 (1.445)	225	251747	10.0	9.1		100.00	9575
32.049	32.049 (0.000)	223	25049			9.71- 109.71	9.95	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010907.d
Report Date: 09-Jan-1997 12:08

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010907.d
Lab Smp Id: VSTD010
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD010
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	194531	1.26
43 1,4-Difluorobenzene	832855	499713	1165997	829384	-0.42
59 Chlorobenzene-d5	625059	375035	875083	656545	5.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.69	0.00
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.03	0.00
59 Chlorobenzene-d5	22.16	21.66	22.66	22.18	0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

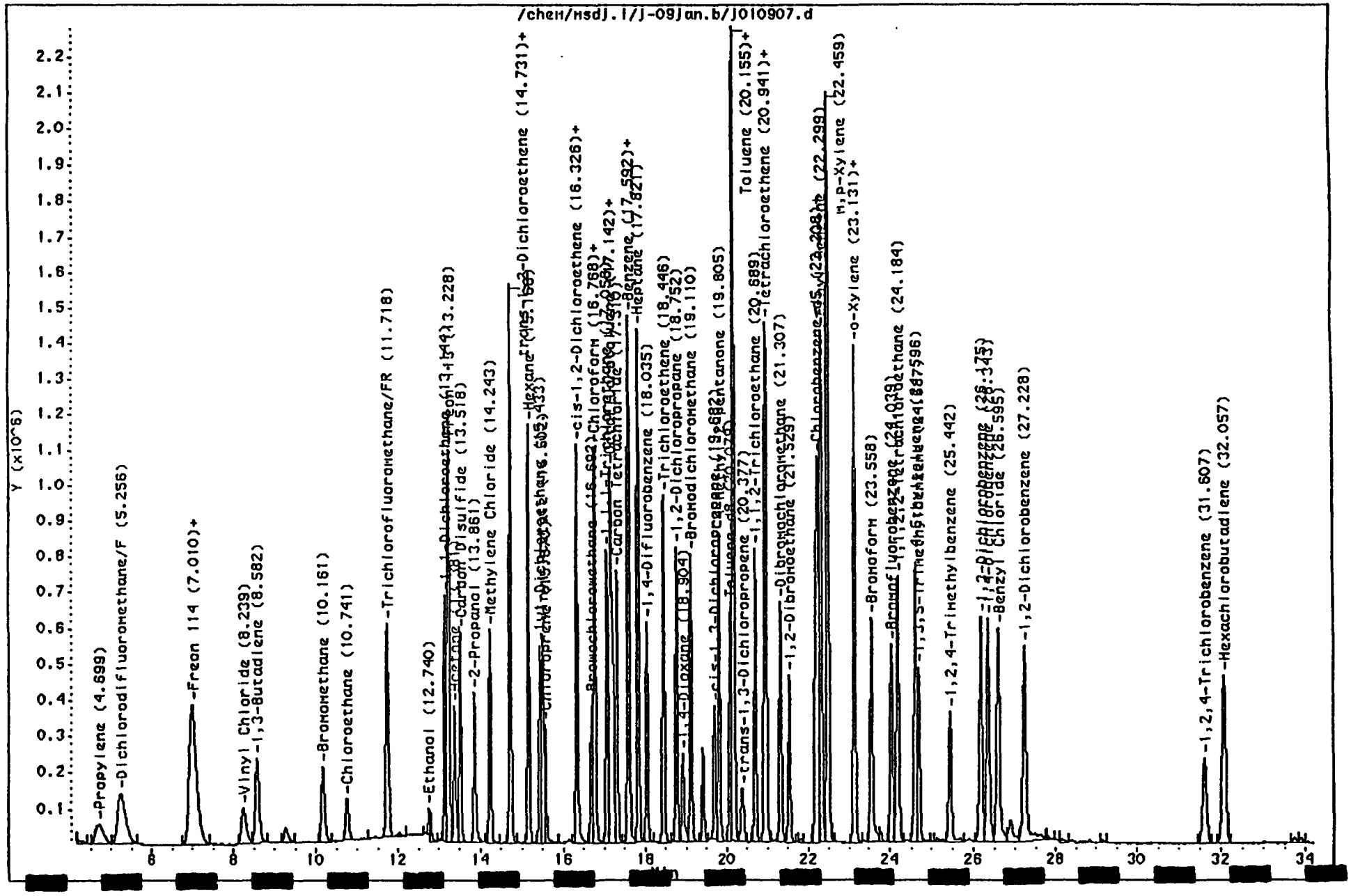
0145

Data File: /chem/hsdj.i/j-09jan.b/j010907.d
Date : 09-JAN-97 11:27
Client ID: VSTD010
Sample Info: 50.0ml #296-25 100ppbv (10.0ppbv)

Instrument: hsdj.i

Operator: FA
Column diameter: 0.58

Column phase: RTx-624



Data File: /chem/msdj.i/j-09jan.b/j010908.d
Report Date: 09-Jan-1997 14:18

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010908.d
Lab Smp Id: VSTD025 Client Smp ID: VSTD025
Inj Date : 09-JAN-1997 12:08
Operator : FA Inst ID: msdj.i
Smp Info : 125.0ml #296-25 100ppbv (25.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:18 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:08 Cal File: j010908.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

					AMOUNTS CAL-AMT	AMOUNTS ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane						CAS #: 74-97-5			
16.722	16.722 (1.000)	130	182238		5.0			100.00	9511(Q)
16.722	16.722 (0.000)	128	38656				25.11- 125.11	21.21	
16.722	16.722 (0.000)	49	96856				138.20- 238.20	53.15	
* 43 1,4-Difluorobenzene						CAS #: 540-36-3			
18.050	18.050 (1.000)	114	762215		5.0			100.00	9760
18.050	18.050 (0.000)	88	38576				0.00- 66.51	5.06	
* 59 Chlorobenzene-d5						CAS #: 3114-55-4			
22.170	22.170 (1.000)	117	613020		5.0			100.00	9350
22.170	22.170 (0.000)	82	91570				7.48- 107.48	14.94	
$ 39 Octafluorotoluene						CAS #: 434-64-0			
17.211	17.211 (1.029)	217	440297		5.0	5.2		100.00	8770
17.211	17.211 (0.000)	186	88536				14.67- 114.67	20.11	
$ 50 Toluene-d8						CAS #: 2037-26-5			
20.079	20.079 (1.112)	98	704821		5.0	5.1		100.00	9726
20.079	20.079 (0.000)	70	24609				0.00- 62.35	3.49	
20.079	20.079 (0.000)	100	133263				16.89- 116.89	18.91	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 66 Bromofluorobenzene					CAS #: 460-00-4			
24.039	24.039 (1.084)	95	473245	5.0	5.0		100.00	9686
24.039	24.039 (0.000)	174	67544			10.59- 110.59	14.27	
24.039	24.039 (0.000)	176	63448			6.91- 106.91	13.41	
1 Propylene					CAS #: 115-07-1			
7.384	7.384 (0.442)	41	979263	25.0	32.1		100.00	6803(M)
7.392	7.392 (0.442)	42	643311			15.19- 115.19	65.69	
7.384	7.384 (0.442)	39	672872			18.12- 118.12	68.71	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
7.705	7.705 (0.461)	85	3130681	25.0	27.6		100.00	0(M)
7.705	7.705 (0.461)	87	1020297			0.00- 83.23	32.59	
7 Freon 114					CAS #: 76-14-2			
8.704	8.704 (0.520)	135	2125504	25.0	25.9		100.00	0(M)
8.712	8.712 (0.521)	137	672576			0.00- 81.78	31.64	
8 Chloromethane					CAS #: 74-87-3			
8.841	8.841 (0.529)	50	1324485	25.0	27.7		100.00	5718(M)
8.834	8.834 (0.528)	52	406010			0.00- 83.32	30.65	
9 Vinyl Chloride					CAS #: 75-01-4			
9.520	9.520 (0.569)	62	1329600	25.0	26.2		100.00	2401(M)
9.520	9.520 (0.569)	64	413288			0.00- 82.12	31.08	
10 1,3-Butadiene					CAS #: 106-99-0			
9.734	9.734 (0.582)	54	1038221	25.0	27.0		100.00	1680(M)
9.742	9.742 (0.583)	39	1084508			52.88- 152.88	104.46	
11 Bromomethane					CAS #: 74-83-9			
10.909	10.909 (0.652)	94	1050581	25.0	25.0		100.00	3462(M)
10.916	10.916 (0.653)	96	993010			43.56- 143.56	94.52	
12 Chloroethane					CAS #: 75-00-3			
11.336	11.336 (0.678)	64	699484	25.0	23.9		100.00	4574(M)
11.336	11.336 (0.678)	66	218115			0.00- 82.26	31.18	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
12.122	12.122 (0.725)	101	2847720	25.0	25.4		100.00	9906(Q)
12.122	12.122 (0.000)	103	361152			15.80- 115.80	12.68	
15 Ethanol					CAS #: 64-17-5			
12.870	12.870 (0.770)	45	282656	25.0	18.9		100.00	(M)
12.870	12.870 (0.770)	46	121233			0.00- 92.89	42.89	
12.877	12.877 (0.770)	43	66313			0.00- 73.46	23.46	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.365	13.365 (0.799)	96	774956	25.0	19.8		100.00	6280(QM)

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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.365	13.365 (0.000)	61	332314			119.48- 219.48	42.88	
13.365	13.365 (0.000)	98	126971			14.76- 114.76	16.38	
18 Freon 113					CAS #: 76-13-1			
13.396	13.396 (0.801)	151	1553260	25.0	25.4		100.00	9870(Q)
13.396	13.396 (0.000)	153	206912			15.75- 115.75	13.32	
13.396	13.396 (0.000)	101	383232			71.78- 171.78	24.67	
19 Carbon Disulfide					CAS #: 75-15-0			
13.762	13.762 (0.823)	76	3468988	25.0	25.2		100.00	8164
20 Acetone					CAS #: 67-64-1			
13.533	13.533 (0.809)	43	1161913	25.0	16.1		100.00	
13.533	13.533 (0.809)	58	315384			0.00- 77.14	27.14	
22 2-Propanol					CAS #: 67-63-0			
13.922	13.922 (0.833)	45	2456307	25.0	27.4		100.00	7496
13.922	13.922 (0.000)	43	109251			0.00- 67.90	4.45	
13.922	13.922 (0.000)	59	20920			0.00- 53.43	0.85	
23 Methylene Chloride					CAS #: 75-09-2			
14.350	14.350 (0.858)	84	1043363	25.0	25.0		100.00	9749(Q)
14.350	14.350 (0.000)	49	436416			96.55- 196.55	41.83	
14.350	14.350 (0.000)	51	135286			0.00- 95.43	12.97	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.815	14.815 (0.886)	96	1193282	25.0	25.7		100.00	9628(Q)
14.815	14.815 (0.000)	61	553408			102.72- 202.72	46.38	
14.815	14.815 (0.000)	98	226752			12.58- 112.58	19.00	
26 MTBE					CAS #: 1634-04-4			
14.807	14.807 (0.885)	73	3132204	25.0	25.6		100.00	6432
14.807	14.807 (0.000)	57	191552			0.00- 74.41	6.12	
14.807	14.807 (0.000)	41	197973			0.00- 75.22	6.32	
27 Hexane					CAS #: 110-54-3			
15.227	15.227 (0.911)	57	2152232	25.0	25.3		100.00	7287
15.227	15.227 (0.000)	43	438993			19.09- 119.09	20.40	
15.227	15.227 (0.000)	56	328570			1.71- 101.71	15.27	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.494	15.494 (0.927)	63	2208134	25.0	25.6		100.00	9527
15.494	15.494 (0.000)	65	190976			0.00- 81.16	8.65	
29 Chloroprene					CAS #: 126-99-8			
15.631	15.631 (0.935)	53	762852	25.0	25.9		100.00	7611
15.631	15.631 (0.000)	88	115369			3.15- 103.15	15.12	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.631	15.631 (0.000)	50	52633			0.00- 74.25	6.90	
30 Vinyl Acetate					CAS #: 108-05-4			
15.547	15.547 (0.930)	43	3750938	25.0	27.0		100.00	5957
15.547	15.547 (0.000)	86	89940			0.00- 58.06	2.40	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.371	16.371 (0.979)	96	1261689	25.0	25.6		100.00	9754(Q)
16.371	16.371 (0.000)	61	518336			90.65- 190.65	41.08	
16.371	16.371 (0.000)	98	235328			13.86- 113.86	18.65	
32 2-Butanone					CAS #: 78-93-3			
16.356	16.356 (0.978)	72	534047	25.0	26.6		100.00	7913(Q)
16.356	16.356 (0.000)	43	754119			449.07- 549.07	141.21	
16.356	16.356 (0.000)	57	48451			0.00- 82.06	9.07	
34 Chloroform					CAS #: 67-66-3			
16.806	16.806 (1.005)	83	2309788	25.0	25.5		100.00	9660
16.806	16.806 (0.000)	85	439808			14.36- 114.36	19.04	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.799	16.799 (1.005)	42	1228018	25.0	25.7		100.00	7501
16.799	16.799 (0.000)	71	119344			0.00- 84.41	9.72	
16.799	16.799 (0.000)	72	132486			0.00- 88.20	10.79	
36 1,1,1-Trichlorethane					CAS #: 71-55-6			
17.096	17.096 (1.022)	97	2150766	25.0	25.3		100.00	9710
17.096	17.096 (0.000)	99	388032			14.13- 114.13	18.04	
37 Cyclohexane					CAS #: 110-82-7			
17.180	17.180 (1.027)	56	1990630	25.0	25.0		100.00	8278(Q)
17.180	17.180 (0.000)	84	413685			25.14- 125.14	20.78	
17.180	17.180 (0.000)	41	332918			10.47- 110.47	16.72	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.340	17.340 (1.037)	119	1771700	25.0	26.4		100.00	9489(Q)
17.340	17.340 (0.000)	117	476560			44.11- 144.11	26.90	
40 Benzene					CAS #: 71-43-2			
17.615	17.615 (0.976)	78	3717472	25.0	25.5		100.00	9809
17.615	17.615 (0.000)	77	262289			0.00- 74.19	7.06	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.615	17.615 (0.976)	62	1462842	25.0	25.7		100.00	8249
17.615	17.615 (0.000)	64	133824			0.00- 80.95	9.15	
42 Heptane					CAS #: 142-82-5			
17.829	17.829 (0.988)	43	2642976	25.0	26.3		100.00	7668

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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.829	17.829 (0.000)	57	406516			0.00- 98.90	15.38	
17.829	17.829 (0.000)	71	409385			0.00- 99.25	15.49	
44 Trichloroethene					CAS #: 79-01-6			
18.454	18.454 (1.022)	95	1428786	25.0	25.7		100.00	7783(Q)
18.454	18.454 (0.000)	130	371712			37.30- 137.30	26.02	
18.454	18.454 (0.000)	97	277696			15.22- 115.22	19.44	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.767	18.767 (1.040)	63	1297182	25.0	25.8		100.00	9698(Q)
18.767	18.767 (0.000)	62	277955			23.89- 123.89	21.43	
18.767	18.767 (0.000)	41	223954			9.53- 109.53	17.26	
46 1,4-Dioxane					CAS #: 123-91-1			
18.958	18.958 (1.050)	88	726209	25.0	26.7		100.00	9775(Q)
18.958	18.958 (0.000)	58	107237			25.68- 125.68	14.77	
18.958	18.958 (0.000)	57	37210			0.00- 76.26	5.12	
47 Bromodichloromethane					CAS #: 75-27-4			
19.110	19.110 (1.059)	83	2329137	25.0	26.4		100.00	9379
19.110	19.110 (0.000)	85	421696			13.23- 113.23	18.11	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.690	19.690 (1.091)	75	943827	36.0	38.1		100.00	9669
19.690	19.690 (0.000)	77	84747			0.00- 81.01	8.98	
19.690	19.690 (0.000)	39	157389			7.59- 107.59	16.68	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.805	19.805 (1.097)	43	2839593	25.0	26.1		100.00	9632
19.805	19.805 (0.000)	58	286454			0.00- 85.65	10.09	
19.805	19.805 (0.000)	85	102076			0.00- 62.70	3.59	
51 Toluene					CAS #: 108-88-3			
20.171	20.171 (1.117)	92	2296632	25.0	26.1		100.00	9697(Q)
20.171	20.171 (0.000)	91	1154437			120.64- 220.64	50.27	
52 Octane					CAS #: 111-65-9			
20.155	20.155 (1.117)	57	1098040	25.0	26.6		100.00	8353(Q)
20.155	20.155 (0.000)	85	375675			55.20- 155.20	34.21	
20.155	20.155 (0.000)	43	989788			227.17- 327.17	90.14	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.407	20.407 (0.920)	75	243825	5.0	4.6		100.00	8412
20.407	20.407 (0.000)	77	19653			0.00- 79.54	8.06	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.697	20.697 (0.934)	97	1223037	25.0	25.7		100.00	9801(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
.697	20.697 (0.000)	99	206400			10.30- 110.30	16.88	
20.697	20.697 (0.000)	83	297349			36.88- 136.88	24.31	
55 Tetrachloroethene					CAS #: 127-18-4			
.964	20.964 (0.946)	166	1382892	25.0	25.8		100.00	8935(Q)
20.964	20.964 (0.000)	129	316928			29.90- 129.90	22.92	
.964	20.964 (0.000)	131	303296			26.46- 126.46	21.93	
56 2-Hexanone					CAS #: 591-78-6			
20.918	20.918 (0.944)	43	3040070	25.0	27.0		100.00	8575
.918	20.918 (0.000)	58	429257			0.01- 100.01	14.12	
.918	20.918 (0.000)	100	78992			0.00- 59.20	2.60	
57 Dibromochloromethane					CAS #: 124-48-1			
.307	21.307 (0.961)	129	1723049	25.0	26.5		100.00	8310
.307	21.307 (0.000)	208	19648			0.00- 54.28	1.14	
58 1,2-Dibromoethane					CAS #: 106-93-4			
.529	21.529 (0.971)	107	1622479	25.0	25.8		100.00	9737(Q)
.529	21.529 (0.000)	109	401024			45.05- 145.05	24.72	
60 Chlorobenzene					CAS #: 108-90-7			
.223	22.223 (1.002)	112	2736877	25.0	26.1		100.00	9788
.223	22.223 (0.000)	114	221504			0.00- 81.34	8.09	
22.223	22.223 (0.000)	77	439739			12.21- 112.21	16.07	
61 Ethyl Benzene					CAS #: 100-41-4			
22.299	22.299 (1.006)	106	1763511	25.0	27.0		100.00	(H)
22.299	22.299 (1.006)	91	6057297			293.48- 393.48	343.48	
62 m,p-Xylene					CAS #: 108-38-3			
22.467	22.467 (1.013)	106	3453692	50.0	54.4		100.00	(MH)
22.459	22.459 (1.013)	91	7216317			158.95- 258.95	208.95	
63 o-Xylene					CAS #: 95-47-6			
23.131	23.131 (1.043)	106	1076261	25.0	27.4		100.00	9610(Q)
.131	23.131 (0.000)	91	618139			174.86- 274.86	57.43	
64 Styrene					CAS #: 100-42-5			
23.138	23.138 (1.044)	104	2322016	25.0	28.2		100.00	9828
.138	23.138 (0.000)	78	285175			0.00- 98.00	12.28	
65 Bromoform					CAS #: 75-25-2			
23.558	23.558 (1.063)	171	854930	25.0	27.2		100.00	8454(Q)
.558	23.558 (0.000)	173	382848			138.77- 238.77	44.78	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.184	24.184 (1.091)	83	2442920	25.0	25.3		100.00	9714

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.184	24.184 (0.000)	85	353404			12.67- 112.67	14.47	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.603	24.603 (1.110)	105	3749039	25.0	28.4		100.00	9351(M)
24.603	24.603 (1.110)	120	987376	25.0	29.1	0.00- 76.55	26.34	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.114)	105	1860375	25.0	29.4		100.00	8123(QM)
24.687	24.687 (1.114)	120	799446	25.0	27.4	245.81- 345.81	42.97	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.450	25.450 (1.148)	105	1477726	25.0	28.7		100.00	8854
25.450	25.450 (0.000)	120	138301			0.00- 91.34	9.36	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.175	26.175 (1.181)	146	1828402	25.0	28.1		100.00	
26.175	26.175 (1.181)	148	1157841			13.33- 113.33	63.33	
26.175	26.175 (1.181)	111	830611			0.00- 95.43	45.43	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.350	26.350 (1.189)	146	1777182	25.0	28.0		100.00	(H)
26.350	26.350 (1.189)	148	1127631			13.45- 113.45	63.45	
26.350	26.350 (1.189)	111	787076			0.00- 94.29	44.29	
74 Benzyl Chloride					CAS #: 100-44-7			
26.595	26.595 (1.200)	91	3622570	25.0	29.6		100.00	9300
26.595	26.595 (0.000)	126	129472			0.00- 67.72	3.57	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.228	27.228 (1.228)	146	1631883	25.0	28.0		100.00	9767(Q)
27.228	27.228 (0.000)	148	200896			14.57- 114.57	12.31	
27.228	27.228 (0.000)	111	149669			0.00- 98.10	9.17	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.615	31.615 (1.426)	180	723811	25.0	29.4		100.00	9759(Q)
31.615	31.615 (0.000)	182	108864			44.99- 144.99	15.04	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.057	32.057 (1.446)	225	714173	25.0	27.5		100.00	9693(Q)
32.057	32.057 (0.000)	223	71027			11.50- 111.50	9.95	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010908.d
Report Date: 09-Jan-1997 12:42

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010908.d
Lab Smp Id: VSTD025
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD025
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	182238	-5.14
43 1,4-Difluorobenzene	832855	499713	1165997	762215	-8.48
59 Chlorobenzene-d5	625059	375035	875083	613020	-1.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.72	0.19
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.05	0.09
59 Chlorobenzene-d5	22.16	21.66	22.66	22.17	0.04

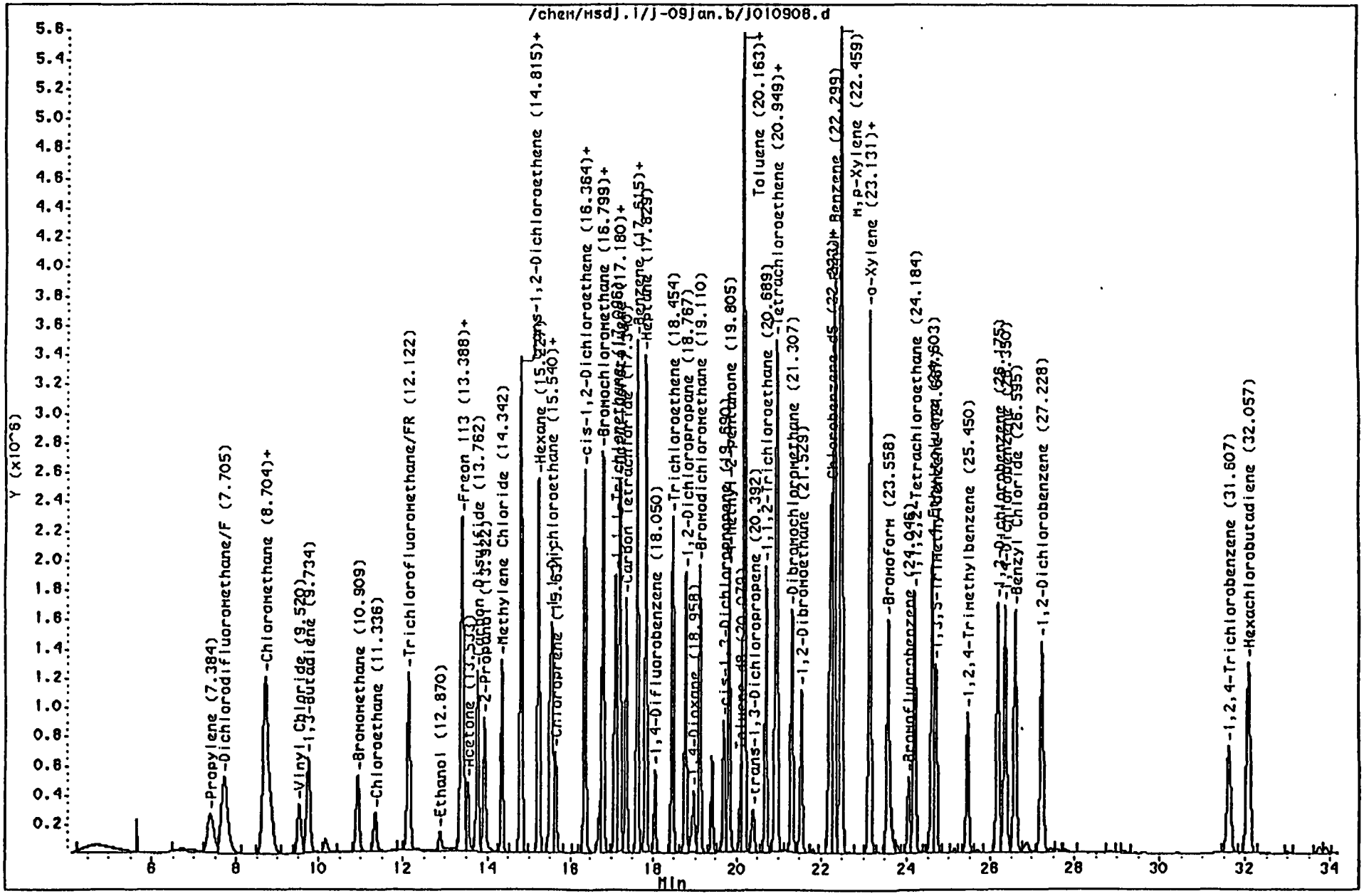
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/hsdj.i/j-09jan.b/j010908.d
Date : 09-JAN-97 12:08
Client ID: VSTD025
Sample Info: 1250.0ml #296-25 100ppbv (25.0ppbv)

Column phase: RTx-624

Instrument: hsdj.i

Operator: FA
Column diameter: 0.58



Data File: /chem/msdj.i/j-09jan.b/j010909.d
Report Date: 09-Jan-1997 14:21

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010909.d
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 09-JAN-1997 12:48
Operator : FA Inst ID: msdj.i
Smp Info : 250.0ml #296-25 100ppbv (50.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:19 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

				AMOUNTS CAL-AMT	AMOUNTS ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane					CAS #: 74-97-5			
16.730	16.730 (1.000)	130	178952	5.0			100.00	9569(Q)
16.730	16.730 (0.000)	128	40760			28.96- 128.96	22.78	
16.730	16.730 (0.000)	49	94160			132.40- 232.40	52.62	
43 1,4-Difluorobenzene					CAS #: 540-36-3			
18.050	18.050 (1.000)	114	733906	5.0			100.00	9778
18.050	18.050 (0.000)	88	39048			0.00- 67.60	5.32	
59 Chlorobenzene-d5					CAS #: 3114-55-4			
22.177	22.177 (1.000)	117	614884	5.0			100.00	7200
22.177	22.177 (0.000)	82	94596			11.03- 111.03	15.38	
39 Octafluorotoluene					CAS #: 434-64-0			
17.211	17.211 (1.029)	217	452389	5.0	5.4		100.00	7856
17.211	17.211 (0.000)	186	90416			15.56- 115.56	19.99	
50 Toluene-d8					CAS #: 2037-26-5			
20.079	20.079 (1.112)	98	680769	5.0	5.1		100.00	9856
20.079	20.079 (0.000)	70	21580			0.00- 61.21	3.17	
20.079	20.079 (0.000)	100	125027			14.97- 114.97	18.37	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 66 Bromofluorobenzene					CAS #: 460-00-4			
24.047	24.047 (1.084)	95	465684	5.0	4.9		100.00	9785
24.047	24.047 (0.000)	174	69062			14.31- 114.31	14.83	
24.047	24.047 (0.000)	176	65832			11.30- 111.30	14.14	
1 Propylene					CAS #: 115-07-1			
7.667	7.667 (0.458)	41	1736727	50.0	57.9		100.00	7686(AQ)
7.667	7.667 (0.000)	42	110114			14.09- 114.09	6.34	
7.667	7.667 (0.000)	39	117041			18.12- 118.12	6.74	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
7.949	7.949 (0.475)	85	5790517	50.0	51.9		100.00	9503
7.949	7.949 (0.000)	87	189952			0.00- 82.25	3.28	
7 Freon 114					CAS #: 76-14-2			
8.849	8.849 (0.529)	135	4061565	50.0	50.4		100.00	9792
8.849	8.849 (0.000)	137	150016			0.00- 81.00	3.69	
8 Chloromethane					CAS #: 74-87-3			
8.994	8.994 (0.538)	50	2442063	50.0	52.0		100.00	9655
8.994	8.994 (0.000)	52	97187			0.00- 89.97	3.98	
9 Vinyl Chloride					CAS #: 75-01-4			
9.635	9.635 (0.576)	62	2491144	50.0	50.1		100.00	9647
9.635	9.635 (0.000)	64	127312			0.00- 82.04	5.11	
10 1,3-Butadiene					CAS #: 106-99-0			
9.849	9.849 (0.589)	54	1905093	50.0	50.4		100.00	9736(Q)
9.849	9.849 (0.000)	39	329019			50.51- 150.51	17.27	
11 Bromomethane					CAS #: 74-83-9			
10.985	10.985 (0.657)	94	2223659	50.0	53.8		100.00	9576(Q)
10.985	10.985 (0.000)	96	403904			44.51- 144.51	18.16	
12 Chloroethane					CAS #: 75-00-3			
11.382	11.382 (0.680)	64	1345581	50.0	46.9		100.00	9675
11.382	11.382 (0.000)	66	81693			0.00- 81.19	6.07	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
12.168	12.168 (0.727)	101	5505499	50.0	50.0		100.00	9888(Q)
12.168	12.168 (0.000)	103	710783			15.55- 115.55	12.91	
15 Ethanol					CAS #: 64-17-5			
12.885	12.885 (0.770)	45	581024	50.0	39.6		100.00	
12.893	12.893 (0.771)	46	231436			0.00- 89.83	39.83	
12.893	12.893 (0.771)	43	137187			0.00- 73.61	23.61	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.389	13.389 (0.800)	96	1485052	50.0	38.7		100.00	6330(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.389	13.389 (0.000)	61	641768			119.93- 219.93	43.22	
13.389	13.389 (0.000)	98	247808			15.62- 115.62	16.69	
18 Freon 113					CAS #: 76-13-1			
13.427	13.427 (0.803)	151	2992908	50.0	50.0		100.00	9883(Q)
13.427	13.427 (0.000)	153	411904			16.40- 116.40	13.76	
13.427	13.427 (0.000)	101	742603			69.71- 169.71	24.81	
19 Carbon Disulfide					CAS #: 75-15-0			
13.793	13.793 (0.824)	76	6732230	50.0	49.8		100.00	8154
20 Acetone					CAS #: 67-64-1			
13.556	13.556 (0.810)	43	3232939	50.0	45.6		100.00	
13.556	13.556 (0.810)	58	1019775			0.00- 81.54	31.54	
22 2-Propanol					CAS #: 67-63-0			
13.938	13.938 (0.833)	45	4749237	50.0	53.9		100.00	7370
13.938	13.938 (0.000)	43	217285			0.00- 67.16	4.58	
13.938	13.938 (0.000)	59	44712			0.00- 53.53	0.94	
23 Methylene Chloride					CAS #: 75-09-2			
14.365	14.365 (0.859)	84	1998488	50.0	48.7		100.00	9744(Q)
14.365	14.365 (0.000)	49	855744			98.40- 198.40	42.82	
14.365	14.365 (0.000)	51	264727			0.00- 95.91	13.25	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.830	14.830 (0.886)	96	2330112	50.0	51.0		100.00	9592(Q)
14.830	14.830 (0.000)	61	1110016			102.43- 202.43	47.64	
14.830	14.830 (0.000)	98	457792			12.87- 112.87	19.65	
26 MTBE					CAS #: 1634-04-4			
14.823	14.823 (0.886)	73	6159874	50.0	51.3		100.00	6400
14.823	14.823 (0.000)	57	382656			0.00- 74.33	6.21	
14.823	14.823 (0.000)	41	374920			0.00- 73.83	6.09	
27 Hexane					CAS #: 110-54-3			
15.235	15.235 (0.911)	57	4170251	50.0	50.0		100.00	7287
15.235	15.235 (0.000)	43	870435			19.23- 119.23	20.87	
15.235	15.235 (0.000)	56	660100			2.50- 102.50	15.83	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.509	15.509 (0.927)	63	4190073	50.0	49.5		100.00	9043
15.509	15.509 (0.000)	65	378866			0.00- 81.56	9.04	
29 Chloroprene					CAS #: 126-99-8			
15.639	15.639 (0.935)	53	1472418	50.0	50.9		100.00	7667
15.639	15.639 (0.000)	88	221581			1.47- 101.47	15.05	

Data File: /chem/msdj.i/j-09jan.b/j010909.d
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.639	15.639 (0.000)	50	108321			0.00- 75.16	7.36	
30 Vinyl Acetate					CAS #: 108-05-4			
15.555	15.555 (0.930)	43	7473687	50.0	54.8		100.00	5928
15.555	15.555 (0.000)	86	182242			0.00- 57.92	2.44	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.372	16.372 (0.979)	96	2477142	50.0	51.2		100.00	9681(Q)
16.372	16.372 (0.000)	61	1024192			87.23- 187.23	41.35	
16.372	16.372 (0.000)	98	458368			11.42- 111.42	18.50	
32 2-Butanone					CAS #: 78-93-3			
16.356	16.356 (0.978)	72	1055539	50.0	53.4		100.00	7908(Q)
16.356	16.356 (0.000)	43	1511495			429.93- 529.93	143.20	
16.356	16.356 (0.000)	57	102023			0.00- 82.39	9.67	
34 Chloroform					CAS #: 67-66-3			
16.806	16.806 (1.005)	83	4500190	50.0	50.5		100.00	9616
16.806	16.806 (0.000)	85	875200			14.83- 114.83	19.45	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.799	16.799 (1.004)	42	2405545	50.0	51.3		100.00	7504
16.799	16.799 (0.000)	71	241958			0.00- 85.98	10.06	
16.799	16.799 (0.000)	72	261748			0.00- 88.92	10.88	
36 1,1,1-Trichlorethane					CAS #: 71-55-6			
17.096	17.096 (1.022)	97	4196466	50.0	50.3		100.00	9686
17.096	17.096 (0.000)	99	756288			13.21- 113.21	18.02	
37 Cyclohexane					CAS #: 110-82-7			
17.180	17.180 (1.027)	56	3841835	50.0	49.2		100.00	8272(Q)
17.180	17.180 (0.000)	84	788710			23.18- 123.18	20.53	
17.180	17.180 (0.000)	41	641134			9.49- 109.49	16.69	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.340	17.340 (1.036)	119	3578246	50.0	54.2		100.00	9392(Q)
17.340	17.340 (0.000)	117	1033272			50.73- 150.73	28.88	
40 Benzene					CAS #: 71-43-2			
17.615	17.615 (0.976)	78	7324878	50.0	52.1		100.00	9839
17.615	17.615 (0.000)	77	516399			0.00- 73.77	7.05	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.615	17.615 (0.976)	62	2868937	50.0	52.3		100.00	8224
17.615	17.615 (0.000)	64	271484			0.00- 82.15	9.46	
42 Heptane					CAS #: 142-82-5			
17.829	17.829 (0.988)	43	5134373	50.0	53.0		100.00	7655

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.829	17.829 (0.000)	57	801284			0.00- 98.73	15.61	
17.829	17.829 (0.000)	71	817856			0.00- 99.74	15.93	
44 Trichloroethene					CAS #: 79-01-6			
18.454	18.454 (1.022)	95	2840362	50.0	53.0		100.00	7785(Q)
18.454	18.454 (0.000)	130	741440			37.45- 137.45	26.10	
18.454	18.454 (0.000)	97	547904			14.62- 114.62	19.29	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.767	18.767 (1.040)	63	2517696	50.0	52.0		100.00	9708(Q)
18.767	18.767 (0.000)	62	548396			25.27- 125.27	21.78	
18.767	18.767 (0.000)	41	449275			11.67- 111.67	17.84	
46 1,4-Dioxane					CAS #: 123-91-1			
18.920	18.920 (1.048)	88	1461387	50.0	55.8		100.00	9858(AQ)
18.920	18.920 (0.000)	58	223968			24.84- 124.84	15.33	
18.920	18.920 (0.000)	57	71566			0.00- 73.91	4.90	
47 Bromodichloromethane					CAS #: 75-27-4			
19.110	19.110 (1.059)	83	4565385	50.0	53.7		100.00	9366
19.110	19.110 (0.000)	85	824145			12.86- 112.86	18.05	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.690	19.690 (1.091)	75	1859281	72.0	77.9		100.00	9626(A)
19.690	19.690 (0.000)	77	173332			0.00- 81.81	9.32	
19.690	19.690 (0.000)	39	311599			7.19- 107.19	16.76	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.812	19.812 (1.098)	43	5506136	50.0	52.6		100.00	9510
19.812	19.812 (0.000)	58	587107			0.00- 86.07	10.66	
19.812	19.812 (0.000)	85	201239			0.00- 62.36	3.65	
51 Toluene					CAS #: 108-88-3			
20.179	20.179 (1.118)	92	4680118	50.0	55.3		100.00	9841(AQ)
20.179	20.179 (0.000)	91	2398449			119.81- 219.81	51.25	
52 Octane					CAS #: 111-65-9			
20.156	20.156 (1.117)	57	2293983	50.0	57.7		100.00	8394(AQ)
20.156	20.156 (0.000)	85	799539			55.06- 155.06	34.85	
20.156	20.156 (0.000)	43	2093293			225.06- 325.06	91.25	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.407	20.407 (0.920)	75	470830	10.0	8.9		100.00	8420
20.407	20.407 (0.000)	77	40884			0.00- 81.39	8.68	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.697	20.697 (0.933)	97	2393999	50.0	50.1		100.00	9777(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.697	20.697 (0.000)	99	427328			12.62- 112.62	17.85	
20.697	20.697 (0.000)	83	593421			36.96- 136.96	24.79	
55 Tetrachloroethene					CAS #: 127-18-4			
20.964	20.964 (0.945)	166	2898508	50.0	53.8		100.00	9113(Q)
20.964	20.964 (0.000)	129	676928			27.81- 127.81	23.35	
20.964	20.964 (0.000)	131	653304			25.09- 125.09	22.54	
56 2-Hexanone					CAS #: 591-78-6			
20.926	20.926 (0.944)	43	6043587	50.0	53.5		100.00	8587
20.926	20.926 (0.000)	58	905243			0.23- 100.23	14.98	
20.926	20.926 (0.000)	100	165777			0.00- 59.20	2.74	
57 Dibromochloromethane					CAS #: 124-48-1			
21.315	21.315 (0.961)	129	3471869	50.0	53.2		100.00	8383
21.315	21.315 (0.000)	208	42200			0.00- 54.50	1.22	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.537	21.537 (0.971)	107	3220692	50.0	51.1		100.00	9715(Q)
21.537	21.537 (0.000)	109	811328			44.77- 144.77	25.19	
60 Chlorobenzene					CAS #: 108-90-7			
22.223	22.223 (1.002)	112	5538471	50.0	52.7		100.00	9732
22.223	22.223 (0.000)	114	454016			0.00- 81.49	8.20	
22.223	22.223 (0.000)	77	894267			12.02- 112.02	16.15	
61 Ethyl Benzene					CAS #: 100-41-4			
22.307	22.307 (1.006)	106	3615296	50.0	55.3		100.00	(AH)
22.307	22.307 (1.006)	91	12466061			294.81- 394.81	344.81	
62 m,p-Xylene					CAS #: 108-38-3			
22.467	22.467 (1.013)	106	7426675	100	117		100.00	(AMH)
22.467	22.467 (1.013)	91	15592489			159.95- 259.95	209.95	
63 o-Xylene					CAS #: 95-47-6			
23.131	23.131 (1.043)	106	2164951	50.0	55.0		100.00	9648(Q)
23.131	23.131 (0.000)	91	1273533			172.76- 272.76	58.83	
64 Styrene					CAS #: 100-42-5			
23.139	23.139 (1.043)	104	4732013	50.0	57.3		100.00	9848(A)
23.139	23.139 (0.000)	78	611411			0.00- 99.15	12.92	
65 Bromoform					CAS #: 75-25-2			
23.566	23.566 (1.063)	171	1780432	50.0	56.5		100.00	8671(AQ)
23.566	23.566 (0.000)	173	834752			140.99- 240.99	46.88	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.184	24.184 (1.090)	83	4761453	50.0	49.1		100.00	9854

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.184	24.184 (0.000)	85	711269			14.86- 114.86	14.94	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.603	24.603 (1.109)	105	7219379	50.0	54.5		100.00	9317(M)
24.603	24.603 (1.109)	120	1852134	50.0	54.4	0.00- 75.68	25.66	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.113)	105	3468244	50.0	54.6		100.00	8878(QM)
24.687	24.687 (1.113)	120	1601173	50.0	54.7	151.38- 251.38	46.17	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.450	25.450 (1.148)	105	2848745	50.0	55.2		100.00	8855(A)
25.450	25.450 (0.000)	120	273320			0.00- 91.92	9.59	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.183	26.183 (1.181)	146	3646376	50.0	55.8		100.00	(A)
26.183	26.183 (1.181)	148	2319944			13.62- 113.62	63.62	
26.183	26.183 (1.181)	111	1641694			0.00- 95.02	45.02	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.358	26.358 (1.189)	146	3547527	50.0	55.7		100.00	(A)
26.358	26.358 (1.189)	148	2261358			13.74- 113.74	63.74	
26.358	26.358 (1.189)	111	1541648			0.00- 93.46	43.46	
74 Benzyl Chloride					CAS #: 100-44-7			
26.602	26.602 (1.200)	91	7064075	50.0	57.5		100.00	9318(A)
26.602	26.602 (0.000)	126	248896			0.00- 67.08	3.52	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.236	27.236 (1.228)	146	3170440	50.0	54.3		100.00	9825(Q)
27.236	27.236 (0.000)	148	396619			13.87- 113.87	12.51	
27.236	27.236 (0.000)	111	287881			0.00- 96.36	9.08	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.622	31.622 (1.426)	180	1509428	50.0	61.1		100.00	9804(AQ)
31.622	31.622 (0.000)	182	225280			43.82- 143.82	14.92	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.065	32.065 (1.446)	225	1426605	50.0	54.8		100.00	9721(Q)
32.065	32.065 (0.000)	223	152102			13.56- 113.56	10.66	

C Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
- Qualifier signal failed the ratio test.

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010909.d
Report Date: 09-Jan-1997 13:20

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

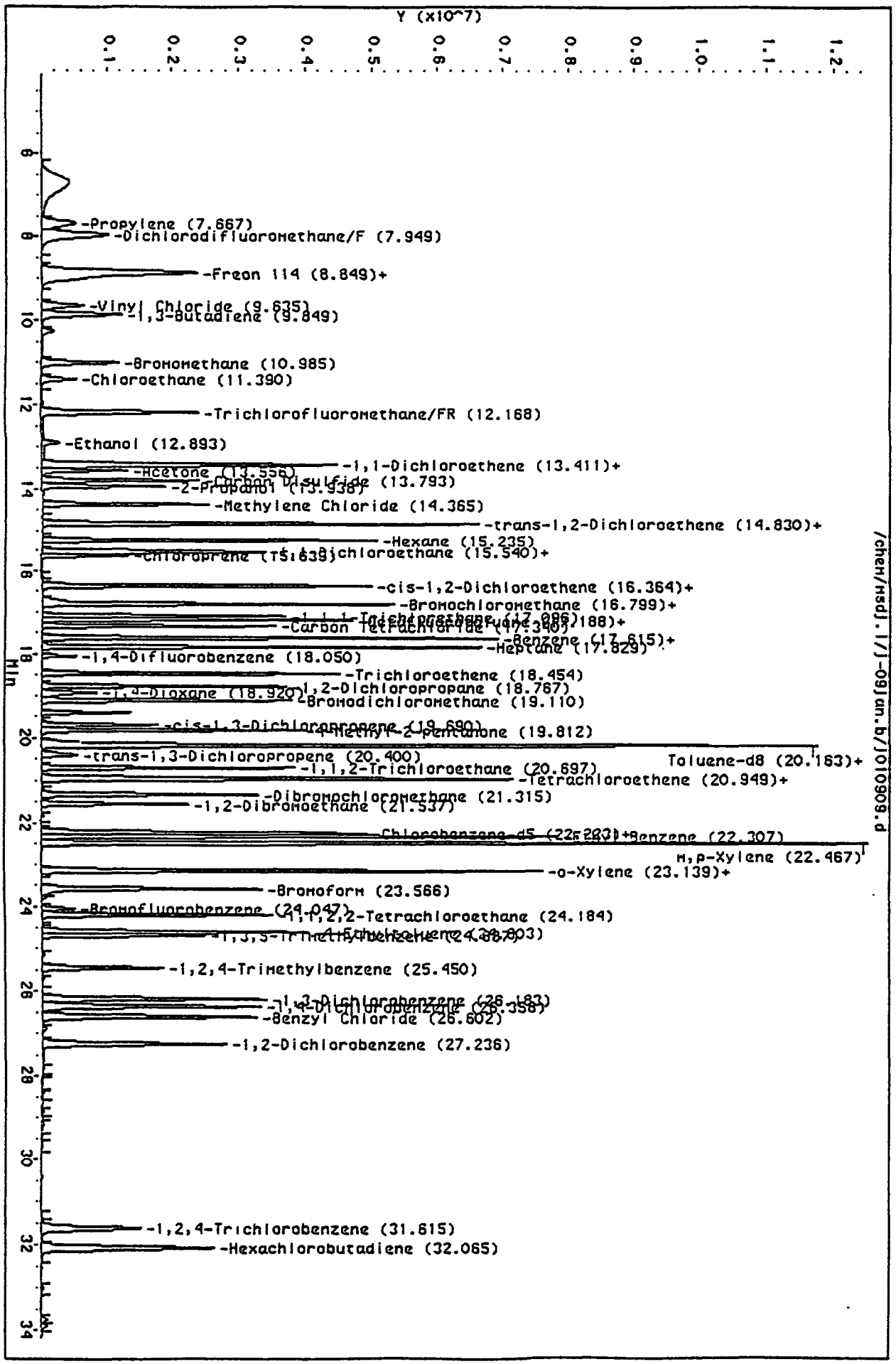
Instrument ID: msdj.i
Lab File ID: j010909.d
Lab Smp Id: VSTD050
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD050
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	178952	-6.85
43 1,4-Difluorobenzene	832855	499713	1165997	733906	-11.88
59 Chlorobenzene-d5	625059	375035	875083	614884	-1.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.73	0.23
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.05	0.09
59 Chlorobenzene-d5	22.16	21.66	22.66	22.18	0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: /chem/hsdj.i/j-09jan.b/j010909.d
Date : 09-JAN-97 12:48
Client ID: VSTD050
Sample Info: 250.0ml #296-25 100ppbv (50.0ppbv)

Instrument: hsdj.i

Column phase: RTx-624

Operator: FA
Column diameter: 0.58

AIR TOXICS LTD.

SAMPLE NAME: Method Spike

ID#: 9702139-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022504	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/25/97

Compound	Det. Limit (ppbv)	% Recovery
Methylene Chloride	0.50	100
cis-1,2-Dichloroethene	0.10	110
1,1,1-Trichloroethane	0.10	111
Benzene	0.10	109
1,2-Dichloroethane	0.10	110
Trichloroethene	0.10	111
1,2-Dichloropropane	0.10	118
Toluene	0.10	116
Tetrachloroethene	0.10	103
Chlorobenzene	0.10	110
Ethyl Benzene	0.10	107
m,p-Xylene	0.10	106
o-Xylene	0.10	111
Styrene	0.10	102
Acetone	0.50	124
Carbon Disulfide	0.50	96
trans-1,2-Dichloroethene	0.50	99
2-Butanone (Methyl Ethyl Ketone)	0.50	116

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	100	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	102	70-130

0166

2 TO/4 outs
MH 2/25/97

Data File: /chem/msdj.i/j-25feb.b/j022504.d
Report Date: 25-Feb-1997 11:20

Air Toxics Limited

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdj.i
Lab File ID: j022504.d
Analysis Type: AIR
Lab Sample ID:
Method File: /chem/msdj.i/j-25feb.b/to140109.m

Injection Date: 25-FEB-1997 10:50
Init. Calibration Date(s): JAN/09/97 JAN/09/97
Init. Calibration Times: 10:44 12:48
Quant Type: ISTD

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COMPOUND	RRF	RF5	MIN RRF	%D	MAX %D	
$ 35 Octafluorotoluene	2.317	2.326	0.010	0.4	30.0	
$ 49 Toluene-d8	0.905	0.953	0.010	5.4	30.0	
$ 65 Bromofluorobenzene	0.774	0.787	0.010	1.7	30.0	
1 Propylene	0.838	0.519	0.010	38.1	40.0	
2 Dichlorodifluoromethane/FR 1	3.117	2.285	0.010	26.7	30.0	
3 Freon 114	2.249	1.596	0.010	29.0	30.0	
4 Chloromethane	1.311	1.087	0.010	17.1	30.0	
5 Vinyl Chloride	1.390	1.016	0.010	26.9	30.0	
6 1,3-Butadiene	1.056	0.692	0.010	34.5	40.0	
7 Bromomethane	1.155	0.534	0.010	53.8	30.0	<- Q1
8 Chloroethane	0.802	0.559	0.010	30.3	30.0	+ o/c
10 Trichlorofluoromethane/FR 11	3.074	2.375	0.010	22.7	30.0	
11 Ethanol	0.410	0.480	0.010	17.2	40.0	
14 1,1-Dichloroethene	1.073	1.165	0.010	8.6	30.0	
15 Freon 113	1.674	1.576	0.010	5.8	30.0	
17 Carbon Disulfide	3.780	3.631	0.010	3.9	40.0	
16 Acetone	1.980	2.467	0.010	24.6	40.0	
18 2-Propanol	2.463	2.613	0.010	6.1	40.0	
20 Methylene Chloride	1.147	1.152	0.010	0.4	30.0	
21 trans-1,2-Dichloroethene	1.275	1.267	0.010	0.6	40.0	
22 MTBE	3.352	3.681	0.010	9.8	40.0	
24 Hexane	2.331	2.594	0.010	11.3	40.0	
25 1,1-Dichloroethane	2.364	2.679	0.010	13.3	30.0	
27 Chloroprene	0.807	0.891	0.010	10.4	40.0	
26 Vinyl Acetate	3.808	3.973	0.010	4.3	40.0	
29 cis-1,2-Dichloroethene	1.350	1.480	0.010	9.6	30.0	
28 2-Butanone	0.552	0.637	0.010	15.5	40.0	
32 Chloroform	2.489	2.747	0.010	10.3	30.0	
31 Tetrahydrofuran	1.311	1.574	0.010	20.0	40.0	
33 1,1,1-Trichlorethane	2.330	2.593	0.010	11.3	30.0	
34 Cyclohexane	2.181	2.573	0.010	18.0	40.0	
36 Carbon Tetrachloride	1.844	2.345	0.010	27.2	30.0	
37 Benzene	0.957	1.047	0.010	9.4	30.0	
38 1,2-Dichloroethane	0.374	0.412	0.010	10.4	30.0	
39 Heptane	0.659	0.753	0.010	14.2	40.0	
41 Trichloroethene	0.365	0.405	0.010	10.9	30.0	
43 1,2-Dichloropropane	0.330	0.389	0.010	18.2	30.0	
44 1,4-Dioxane	0.179	0.206	0.010	15.3	40.0	
45 Bromodichloromethane	0.579	0.638	0.010	10.2	40.0	

Data File: /chem/msdj.i/j-25feb.b/j022504.d
Report Date: 25-Feb-1997 11:20

Air Toxics Limited

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdj.i
Lab File ID: j022504.d
Analysis Type: AIR
Lab Sample ID:
Method File: /chem/msdj.i/j-25feb.b/to140109.m

Injection Date: 25-FEB-1997 10:50
Init. Calibration Date(s): JAN/09/97 JAN/09/97
Init. Calibration Times: 10:44 12:48
Quant Type: ISTD

COMPOUND	RRF	RF5	MIN RRF	%D	MAX %D	
46 cis-1,3-Dichloropropene	0.163	0.199	0.010	22.6	30.0	
47 4-Methyl-2-pentanone	0.713	0.859	0.010	20.6	40.0	
51 Toluene	0.577	0.668	0.010	15.8	30.0	
50 Octane	0.271	0.312	0.010	15.3	40.0	
52 trans-1,3-Dichloropropene	0.428	0.527	0.010	23.2	30.0	
53 1,1,2-Trichloroethane	0.388	0.395	0.010	1.6	30.0	
55 Tetrachloroethene	0.438	0.451	0.010	3.0	30.0	
54 2-Hexanone	0.918	0.998	0.010	8.7	40.0	
56 Dibromochloromethane	0.530	0.560	0.010	5.6	40.0	
57 1,2-Dibromoethane	0.513	0.553	0.010	7.9	30.0	
59 Chlorobenzene	0.854	0.937	0.010	9.8	30.0	
60 Ethyl Benzene	0.532	0.570	0.010	7.2	30.0	
61 m,p-Xylene	0.518	0.548	0.010	5.9	30.0	
62 o-Xylene	0.320	0.355	0.010	11.0	30.0	
63 Styrene	0.671	0.688	0.010	2.4	30.0	
64 Bromoform	0.256	0.270	0.010	5.2	40.0	
66 1,1,2,2-Tetrachloroethane	0.789	0.883	0.010	12.0	30.0	
67 4-Ethyltoluene	1.077	1.078	0.010	0.1	40.0	
	0.277	0.281	0.010	1.5	40.0	
68 1,3,5-Trimethylbenzene	0.516	0.501	0.010	2.9	30.0	
	0.238	0.241	0.010	1.3	30.0	
70 1,2,4-Trimethylbenzene	0.420	0.360	0.010	14.3	30.0	
71 1,3-Dichlorobenzene	0.531	0.613	0.010	15.5	30.0	
72 1,4-Dichlorobenzene	0.518	0.583	0.010	12.5	30.0	
73 Benzyl Chloride	1.000	1.092	0.010	9.2	30.0	
75 1,2-Dichlorobenzene	0.475	0.550	0.010	15.8	30.0	
77 1,2,4-Trichlorobenzene	0.201	0.118	0.010	41.1	30.0	<- Q 3
78 Hexachlorobutadiene	0.212	0.253	0.010	19.4	30.0	

MH 3/17/97

Data File: /chem/msdj.i/j-25feb.b/j022504.d
Report Date: 25-Feb-1997 15:33

MH 2/25/97

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Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-25feb.b/j022504.d
Lab Smp Id: Client Smp ID: Method Spike
Inj Date : 25-FEB-1997 10:50
Operator : MH Inst ID: msdj.i
Smp Info : #296-71 TO14 Std. 25mL (5ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 15:32 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.363	16.358 (1.000)	130	221139	5.0			100.00	9244(Q)
16.363	16.358 (0.000)	128	51152			28.11- 128.11	23.13	
16.363	16.358 (0.000)	49	118335			130.70- 230.70	53.51	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.705	17.700 (1.000)	114	1000893	5.0			100.00	9349
17.705	17.700 (0.000)	88	56792			0.00- 68.37	5.67	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.795	21.790 (1.000)	117	931057	5.0			100.00	9994
21.795	21.790 (0.000)	82	151680			10.83- 110.83	16.29	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.897	16.892 (1.033)	217	514458	5.0	5.0		100.00	7716
16.897	16.892 (0.000)	186	104464			13.05- 113.05	20.31	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.727	19.730 (1.114)	98	954182	5.0	5.3		100.00	9943
19.727	19.730 (0.000)	70	36824			0.00- 63.02	3.86	
19.727	19.730 (0.000)	100	184331			15.19- 115.19	19.32	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
S 65 Bromofluorobenzene					CAS #: 460-00-4			
23.626	23.621 (1.084)	95	733126	5.0	5.1		100.00	8151
23.626	23.621 (0.000)	174	102344			7.77- 107.77	13.96	
23.626	23.621 (0.000)	176	97544			7.57- 107.57	13.31	
1 Propylene					CAS #: 115-07-1			
4.492	4.517 (0.275)	41	114666	5.0	3.1		100.00	7620(Q)
4.492	4.517 (0.000)	42	3975			14.10- 114.10	3.47	
4.492	4.517 (0.000)	39	4521			20.85- 120.85	3.94	
2 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
5.033	5.051 (0.308)	85	505303	5.0	3.7		100.00	9061
5.033	5.051 (0.000)	87	10820			0.00- 82.34	2.14	
3 Freon 114					CAS #: 76-14-2			
6.719	6.753 (0.411)	135	352962	5.0	3.5		100.00	9060
6.719	6.753 (0.000)	137	10640			0.00- 80.98	3.01	
4 Chloromethane					CAS #: 74-87-3			
6.880	6.928 (0.420)	50	240402	5.0	4.1		100.00	6163
6.880	6.928 (0.000)	52	6570			0.00- 79.23	2.73	
5 Vinyl Chloride					CAS #: 75-01-4			
7.963	7.981 (0.487)	62	224616	5.0	3.6		100.00	4437
7.963	7.981 (0.000)	64	7948			0.00- 80.10	3.54	
6 1,3-Butadiene					CAS #: 106-99-0			
8.299	8.301 (0.507)	54	152993	5.0	3.3		100.00	6529(Q)
8.299	8.301 (0.000)	39	23341			56.78- 156.78	15.26	
7 Bromomethane					CAS #: 74-83-9			
9.870	9.880 (0.603)	94	118055	5.0	2.3		100.00	6621(Q)
9.870	9.880 (0.000)	96	19173			47.32- 147.32	16.24	
8 Chloroethane					CAS #: 75-00-3			
10.435	10.460 (0.638)	64	123606	5.0	3.5		100.00	4019
10.435	10.460 (0.000)	66	7835			0.00- 81.25	6.34	
10 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
11.419	11.429 (0.698)	101	525251	5.0	3.9		100.00	9027
11.419	11.429 (0.000)	103	75297			13.51- 113.51	14.34	
11 Ethanol					CAS #: 64-17-5			
12.456	12.528 (0.761)	45	106203	5.0	5.9		100.00	
12.464	12.528 (0.762)	46	44313			0.00- 91.33	41.72	
12.464	12.528 (0.762)	43	24383			0.00- 76.37	22.96	
14 1,1-Dichloroethene					CAS #: 75-35-4			
12.838	12.841 (0.785)	96	257663	5.0	5.4		100.00	8928(Q)

Data File: /chem/msdj.i/j-25feb.b/j022504.d
Report Date: 25-Feb-1997 15:33

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
14 1,1-Dichloroethene (continued)								
12.838	12.841 (0.000)	61	134976			125.93- 225.93	52.38	
12.838	12.841 (0.000)	98	47080			14.09- 114.09	18.27	
15 Freon 113					CAS #: 76-13-1			
12.930	12.932 (0.790)	151	348575	5.0	4.7		100.00	8437(Q)
12.930	12.932 (0.000)	153	51976			12.53- 112.53	14.91	
12.930	12.932 (0.000)	101	129992			106.39- 206.39	37.29	
17 Carbon Disulfide					CAS #: 75-15-0			
13.197	13.207 (0.806)	76	802964	5.0	4.8		100.00	8023
16 Acetone					CAS #: 67-64-1			
13.082	13.092 (0.799)	43	545476	5.0	6.2		100.00	
13.090	13.092 (0.800)	58	163200			0.00- 79.57	29.92	
18 2-Propanol					CAS #: 67-63-0			
13.563	13.550 (0.829)	45	577787	5.0	5.3		100.00	7544
13.563	13.550 (0.000)	43	26998			0.00- 67.72	4.67	
13.563	13.550 (0.000)	59	5493			0.00- 53.58	0.95	
20 Methylene Chloride					CAS #: 75-09-2			
13.929	13.932 (0.851)	84	254727	5.0	5.0		100.00	9577(Q)
13.929	13.932 (0.000)	49	118464			102.14- 202.14	46.51	
13.929	13.932 (0.000)	51	37319			0.00- 96.86	14.65	
21 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.417	14.420 (0.881)	96	280207	5.0	5.0		100.00	8258(Q)
14.417	14.420 (0.000)	61	143040			116.46- 216.46	51.05	
14.417	14.420 (0.000)	98	55096			13.58- 113.58	19.66	
22 MTBE					CAS #: 1634-04-4			
14.410	14.412 (0.881)	73	814044	5.0	5.5		100.00	6323
14.410	14.412 (0.000)	57	54448			0.00- 74.31	6.69	
14.410	14.412 (0.000)	41	53023			0.00- 75.24	6.51	
24 Hexane					CAS #: 110-54-3			
14.852	14.847 (0.908)	57	573673	5.0	5.6		100.00	7264
14.852	14.847 (0.000)	43	128428			19.92- 119.92	22.39	
14.852	14.847 (0.000)	56	97083			2.77- 102.77	16.92	
25 1,1-Dichloroethane					CAS #: 75-34-3			
15.119	15.114 (0.924)	63	592391	5.0	5.7		100.00	6397
15.119	15.114 (0.000)	65	52546			0.00- 81.51	8.87	
27 Chloroprene					CAS #: 126-99-8			
15.249	15.251 (0.932)	53	197145	5.0	5.5		100.00	7668
15.249	15.251 (0.000)	88	29416			0.00- 99.76	14.92	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
27 Chloroprene (continued)								
15.249	15.251 (0.000)	50	15046			0.00- 75.45	7.63	
26 Vinyl Acetate					CAS #: 108-05-4			
15.188	15.190 (0.928)	43	878679	5.0	5.2		100.00	5824
15.188	15.190 (0.000)	86	17230			0.00- 57.73	1.96	
29 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.012	16.007 (0.979)	96	327193	5.0	5.5		100.00	8227(Q)
16.012	16.007 (0.000)	61	141504			98.04- 198.04	43.25	
16.012	16.007 (0.000)	98	60992			13.81- 113.81	18.64	
28 2-Butanone					CAS #: 78-93-3			
16.004	15.991 (0.978)	72	140946	5.0	5.8		100.00	7895(Q)
16.004	15.991 (0.000)	43	191692			439.21- 539.21	136.00	
16.004	15.991 (0.000)	57	13109			0.00- 83.45	9.30	
32 Chloroform					CAS #: 67-66-3			
16.447	16.449 (1.005)	83	607386	5.0	5.5		100.00	8216
16.447	16.449 (0.000)	85	115904			13.68- 113.68	19.08	
31 Tetrahydrofuran					CAS #: 109-99-9			
16.431	16.419 (1.004)	42	348008	5.0	6.0		100.00	7492
16.431	16.419 (0.000)	71	34056			0.00- 87.71	9.79	
16.431	16.419 (0.000)	72	36144			0.00- 89.42	10.39	
33 1,1,1-Trichlorethane					CAS #: 71-55-6			
16.729	16.724 (1.022)	97	573480	5.0	5.6		100.00	7452
16.729	16.724 (0.000)	99	111336			15.82- 115.82	19.41	
34 Cyclohexane					CAS #: 110-82-7			
16.813	16.808 (1.028)	56	568917	5.0	5.9		100.00	8257(Q)
16.813	16.808 (0.000)	84	116772			21.29- 121.29	20.53	
16.813	16.808 (0.000)	41	94550			10.59- 110.59	16.62	
36 Carbon Tetrachloride					CAS #: 56-23-5			
16.973	16.976 (1.037)	119	518598	5.0	6.4		100.00	8250(QH)
16.973	16.976 (0.000)	117	97488			27.68- 127.68	18.80	
37 Benzene					CAS #: 71-43-2			
17.255	17.250 (0.975)	78	1047810	5.0	5.5		100.00	8051
17.255	17.250 (0.000)	77	74873			0.00- 74.19	7.15	
38 1,2-Dichloroethane					CAS #: 107-06-2			
17.263	17.258 (0.975)	62	412856	5.0	5.5		100.00	6365
17.263	17.258 (0.000)	64	37360			0.00- 82.38	9.05	
39 Heptane					CAS #: 142-82-5			
17.492	17.487 (0.988)	43	753677	5.0	5.7		100.00	7608

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
39 Heptane (continued)								
17.492	17.487 (0.000)	57	116906			0.00- 97.74	15.51	
17.492	17.487 (0.000)	71	125518			0.00- 99.30	16.65	
41 Trichloroethene					CAS #: 79-01-6			
18.110	18.097 (1.023)	95	405154	5.0	5.5		100.00	8677(Q)
18.110	18.097 (0.000)	130	105856			38.17- 138.17	26.13	
18.110	18.097 (0.000)	97	77424			14.49- 114.49	19.11	
43 1,2-Dichloropropane					CAS #: 78-87-5			
18.415	18.410 (1.040)	63	389706	5.0	5.9		100.00	8664(Q)
18.415	18.410 (0.000)	62	88741			25.40- 125.40	22.77	
18.415	18.410 (0.000)	41	67342			11.72- 111.72	17.28	
44 1,4-Dioxane					CAS #: 123-91-1			
18.567	18.563 (1.049)	88	205983	5.0	5.8		100.00	2827(Q)
18.567	18.563 (0.000)	58	47157			28.00- 128.00	22.89	
18.567	18.563 (0.000)	57	14758			0.00- 74.92	7.16	
45 Bromodichloromethane					CAS #: 75-27-4			
18.766	18.761 (1.060)	83	638826	5.0	5.5		100.00	9329
18.766	18.761 (0.000)	85	116290			13.31- 113.31	18.20	
46 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.338	19.341 (1.092)	75	287369	7.2	8.8		100.00	8894
19.338	19.341 (0.000)	77	26292			0.00- 81.96	9.15	
19.338	19.341 (0.000)	39.	41962			1.01- 101.01	14.60	
47 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.468	19.455 (1.100)	43	859990	5.0	6.0		100.00	6789
19.468	19.455 (0.000)	58	96408			0.00- 86.59	11.21	
19.468	19.455 (0.000)	85	32710			0.00- 61.74	3.80	
51 Toluene					CAS #: 108-88-3			
19.826	19.821 (1.120)	92	668602	5.0	5.8		100.00	8603(Q)
19.826	19.821 (0.000)	91	334853			116.37- 216.37	50.08	
50 Octane					CAS #: 111-65-9			
19.819	19.814 (1.119)	57	312680	5.0	5.8		100.00	8033(Q)
19.819	19.814 (0.000)	85	106363			51.33- 151.33	34.02	
19.819	19.814 (0.000)	43	279585			216.37- 316.37	89.42	
52 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.063	20.050 (0.921)	75	98174	1.0	1.2		100.00	8586
20.063	20.050 (0.000)	77	5556			0.00- 73.35	5.66	
53 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.345	20.340 (0.933)	97	367547	5.0	5.1		100.00	8959(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
53 1,1,2-Trichloroethane (continued)								
20.345	20.340 (0.000)	99	67104			14.63- 114.63	18.26	
20.345	20.340 (0.000)	83	92651			39.23- 139.23	25.21	
55 Tetrachloroethene					CAS #: 127-18-4			
20.604	20.607 (0.945)	166	420113	5.0	5.2		100.00	9109(Q)
20.604	20.607 (0.000)	129	103896			34.36- 134.36	24.73	
20.604	20.607 (0.000)	131	98976			30.37- 130.37	23.56	
54 2-Hexanone					CAS #: 591-78-6			
20.582	20.569 (0.944)	43	929621	5.0	5.4		100.00	8628
20.582	20.569 (0.000)	58	146681			0.00- 98.87	15.78	
20.582	20.569 (0.000)	100	27472			0.00- 59.93	2.96	
56 Dibromochloromethane					CAS #: 124-48-1			
20.948	20.943 (0.961)	129	521460	5.0	5.3		100.00	8499
20.948	20.943 (0.000)	208	6201			0.00- 54.22	1.19	
57 1,2-Dibromoethane					CAS #: 106-93-4			
21.161	21.164 (0.971)	107	515125	5.0	5.4		100.00	5533(Q)
21.161	21.164 (0.000)	109	129512			45.86- 145.86	25.14	
59 Chlorobenzene					CAS #: 108-90-7			
21.840	21.835 (1.002)	112	872712	5.0	5.5		100.00	9153
21.840	21.835 (0.000)	114	74264			0.00- 81.98	8.51	
21.840	21.835 (0.000)	77	149866			15.14- 115.14	17.17	
60 Ethyl Benzene					CAS #: 100-41-4			
21.924	21.919 (1.006)	106	530722	5.0	5.4		100.00	
21.924	21.919 (1.006)	91	1820056			296.25- 396.25	342.94	
61 m,p-Xylene					CAS #: 108-38-3			
22.085	22.080 (1.013)	106	1020880	10.0	10.6		100.00	
22.085	22.080 (1.013)	91	2156427			164.96- 264.96	211.23	
62 o-Xylene					CAS #: 95-47-6			
22.733	22.736 (1.043)	106	330980	5.0	5.6		100.00	7804(Q)
22.733	22.736 (0.000)	91	196839			172.77- 272.77	59.47	
63 Styrene					CAS #: 100-42-5			
22.741	22.743 (1.043)	104	640229	5.0	5.1		100.00	8680
22.741	22.743 (0.000)	78	83454			1.50- 101.50	13.04	
64 Bromoform					CAS #: 75-25-2			
23.160	23.148 (1.063)	171	251060	5.0	5.2		100.00	8794(Q)
23.160	23.148 (0.000)	173	117352			149.33- 249.33	46.74	
66 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
23.771	23.766 (1.091)	83	821966	5.0	5.6		100.00	8908

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
66 1,1,2,2-Tetrachloroethane (continued)								
23.771	23.766 (0.000)	85	119362			9.97- 109.97	14.52	
67 4-Ethyltoluene					CAS #: 622-96-8			
24.183	24.178 (1.110)	105	1004024	5.0	5.0		100.00	9375(M)
24.183	24.178 (1.110)	120	261881	5.0	5.1	0.00- 77.93	26.08	
68 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.267	24.262 (1.113)	105	466485	5.0	4.8		100.00	7859(QMH)
24.267	24.262 (1.113)	120	224640	5.0	5.1	268.16- 368.16	48.16	
70 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.014	25.009 (1.148)	105	335152	5.0	4.3		100.00	8800
25.014	25.009 (0.000)	120	32904			0.00- 92.45	9.82	
71 1,3-Dichlorobenzene					CAS #: 541-73-1			
25.708	25.703 (1.180)	146	570668	5.0	5.8		100.00	
25.708	25.703 (1.180)	148	363355			13.67- 113.67	63.67	
25.708	25.703 (1.180)	111	265093			0.00- 96.64	46.45	
72 1,4-Dichlorobenzene					CAS #: 106-46-7			
25.884	25.879 (1.188)	146	542373	5.0	5.6		100.00	
25.884	25.879 (1.188)	148	339846			12.66- 112.66	62.66	
25.884	25.879 (1.188)	111	243723			0.00- 94.63	44.94	
73 Benzyl Chloride					CAS #: 100-44-7			
26.120	26.115 (1.198)	91	1016634	5.0	5.5		100.00	9525
26.120	26.115 (0.000)	126	40336			0.00- 68.70	3.97	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
26.731	26.733 (1.226)	146	512183	5.0	5.8		100.00	8874
26.731	26.733 (0.000)	148	63128			11.67- 111.67	12.33	
26.731	26.733 (0.000)	111	48264			0.00- 97.75	9.42	
77 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.018	31.013 (1.423)	180	110099	5.0	2.9		100.00	8602(Q)
31.018	31.013 (0.000)	182	16123			41.32- 141.32	14.64	
78 Hexachlorobutadiene					CAS #: 87-68-3			
31.453	31.456 (1.443)	225	235250	5.0	6.0		100.00	8901(Q)
31.453	31.456 (0.000)	223	22902			9.84- 109.84	9.74	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Audit History For: /chem/msdj.i/j-25feb.b/j022504.d

MH 2/25/97.

Change Date: 25-Feb-97 11:16
Change Made by: Automation

Parameter: ChemLan Data Transfer
Old Value:
New Value:
Reason For Change: MS Data from Instrument: msdj.i

Change Date: 25-Feb-97 11:16
Change Made by: Automation

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Complete Target Compound Processing

Change Date: 25-Feb-97 11:17
Change Made by: mhe

Parameter: date
Old Value: 25-FEB-97 10:50
New Value: 25-FEB-1997 10:50
Reason For Change: N/A

Change Date: 25-Feb-97 11:17
Change Made by: mhe

Parameter: Sample Type
Old Value: Non-Calibration Sample
New Value: Continuining Calibration
Reason For Change: N/A

Change Date: 25-Feb-97 11:17
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 25-Feb-97 11:18
Change Made by: mhe

Parameter: Best Hit for Carbon Tetrachloride changed
Old Value: Old Hit #2
New Value: New Hit #3
Reason For Change: N/A

Change Date: 25-Feb-97 11:18
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 25-Feb-97 11:18
Change Made by: mhe

Parameter: Manual reintegration of 4-Ethyltoluene (Signal 2)
Old Value: Old Area/Time: 63454 / 24.18
New Value: New Area/Time: 261881 / 24.18
Reason For Change: N/A

Change Date: 25-Feb-97 11:19
Change Made by: mhe

Parameter: Best Hit for 1,3,5-Trimethylbenzene changed
Old Value: Old Hit #1
New Value: New Hit #2
Reason For Change: N/A

Change Date: 25-Feb-97 11:19
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 25-Feb-97 11:19
Change Made by: mhe

Parameter: Manual reintegration of 1,3,5-Trimethylbenzene (Signal 2)
Old Value: Old Area/Time: 21384 / 24.27
New Value: New Area/Time: 224640 / 24.27
Reason For Change: N/A

Change Date: 25-Feb-97 15:32
Change Made by: mhe

Parameter: QC Sample Type
Old Value: BLANK
New Value: METHSPIKE
Reason For Change: N/A

Change Date: 25-Feb-97 15:32
Change Made by: mhe

Parameter: Spike Sample
Old Value: Off
New Value: On
Reason For Change: N/A

Change Date: 25-Feb-97 15:32
Change Made by: mhe

Parameter: Client ID
Old Value: VSTD150
New Value: Method Spike
Reason For Change: N/A

Change Date: 25-Feb-97 15:33
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m

Reason For Change: Quantitation

Data File: /chem/msdj.i/j-25feb.b/j022504.d
Report Date: 25-Feb-1997 15:33

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j022504.d
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-25feb.b/to140109.m
Misc Info:

Calibration Date: 02/25/97
Calibration Time: 0835
Client Smp ID: Method Spike
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	224629	134777	314481	221139	-1.55
40 1,4-Difluorobenzene	1024780	614868	1434692	1000893	-2.33
58 Chlorobenzene-d5	955863	573518	1338208	931057	-2.60

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	16.36	15.86	16.86	16.36	-0.01
40 1,4-Difluorobenzene	17.71	17.21	18.21	17.71	0.00
58 Chlorobenzene-d5	21.80	21.30	22.30	21.79	0.00

MH 2/25/97

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Client ID: Method Spike
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

Column phase: RTx-624

Instrument: msdj.i

Operator: MH
Column diameter: 0.58

Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

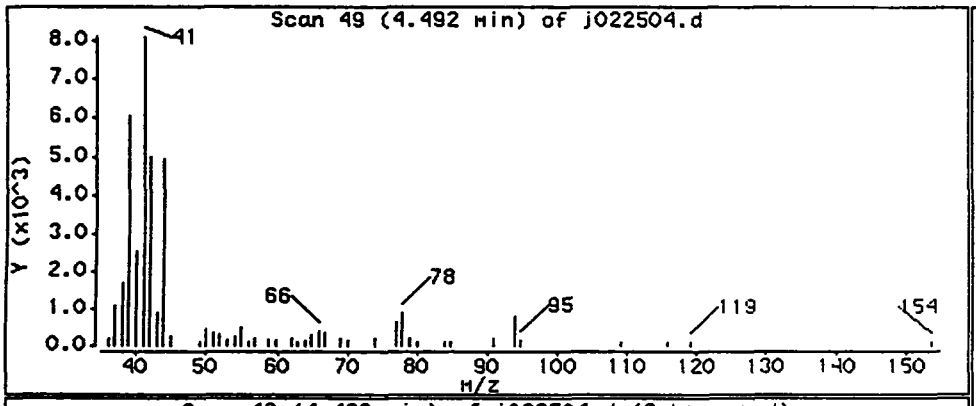
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

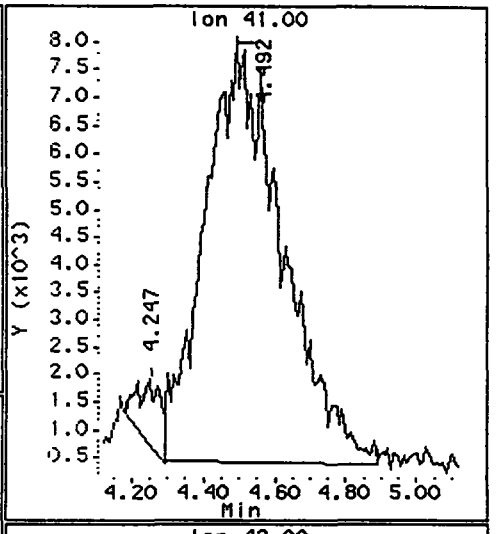
Operator: MH

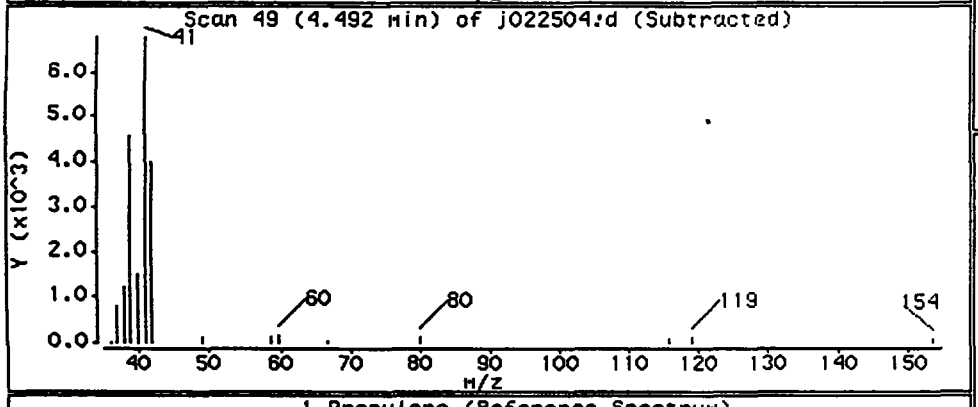
Column phase: RTx-624

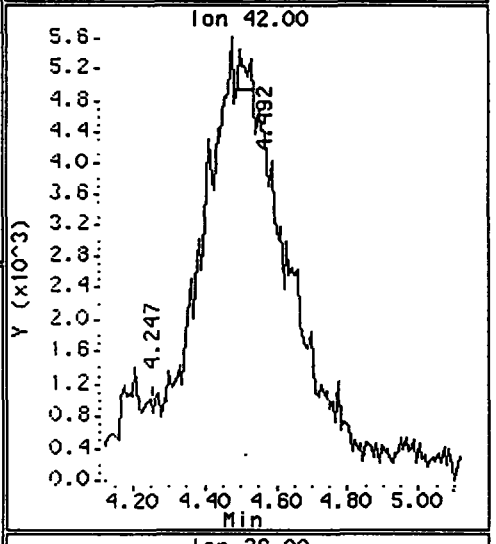
Column diameter: 0.58

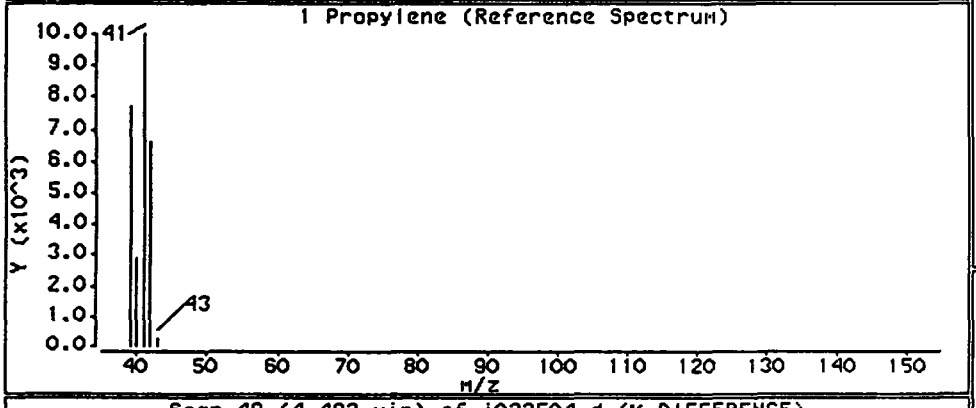
1 Propylene

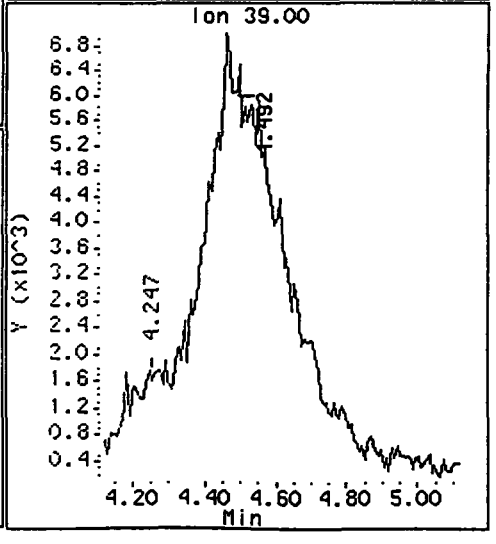


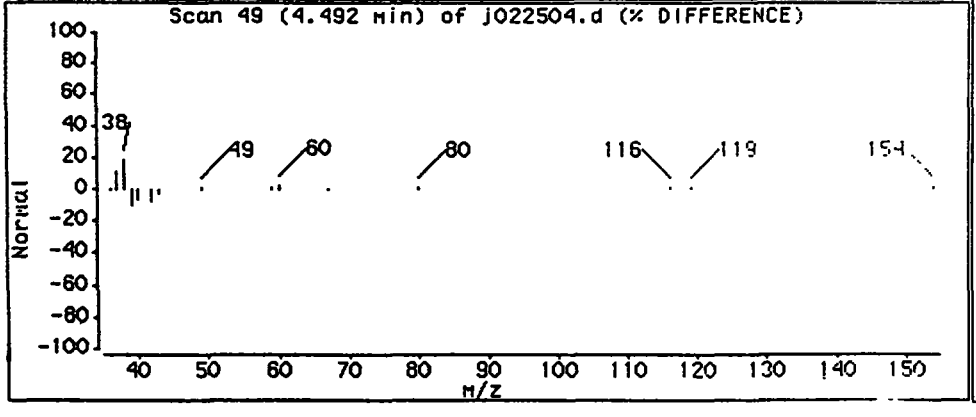












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

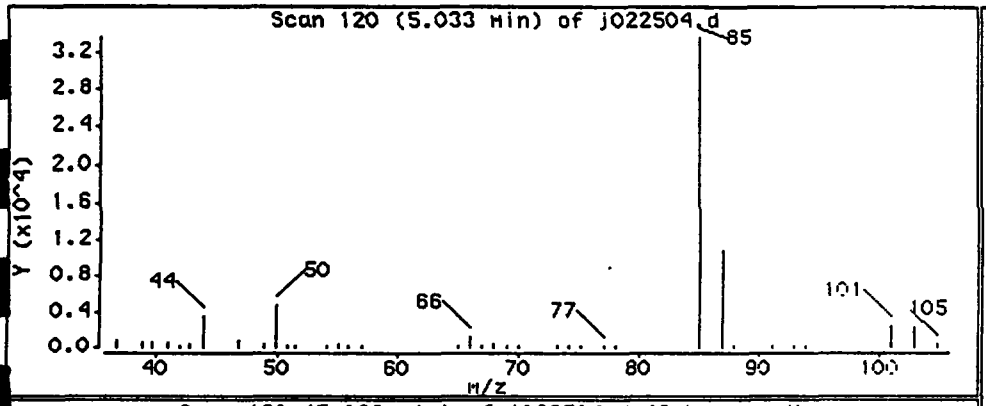
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

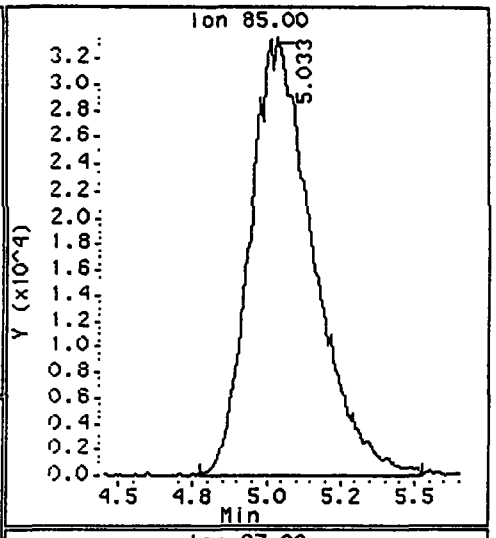
Operator: MH

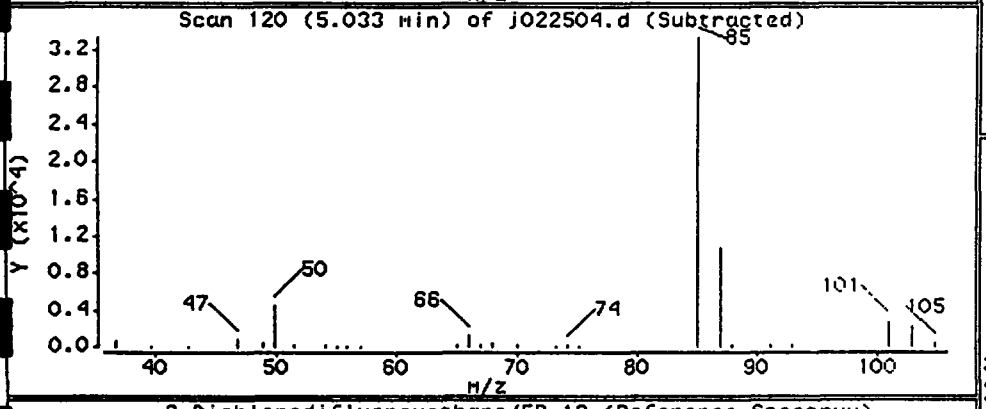
Column phase: RTx-624

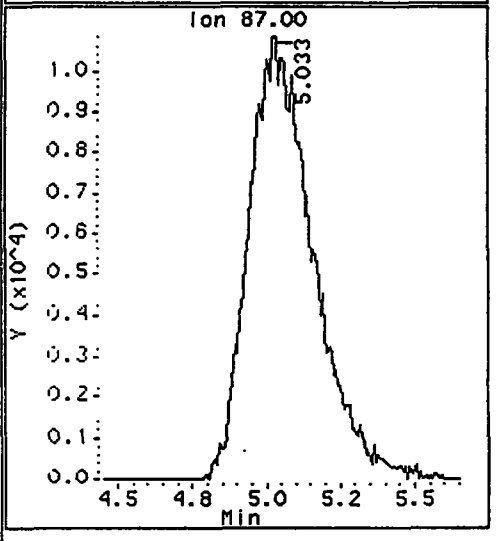
Column diameter: 0.58

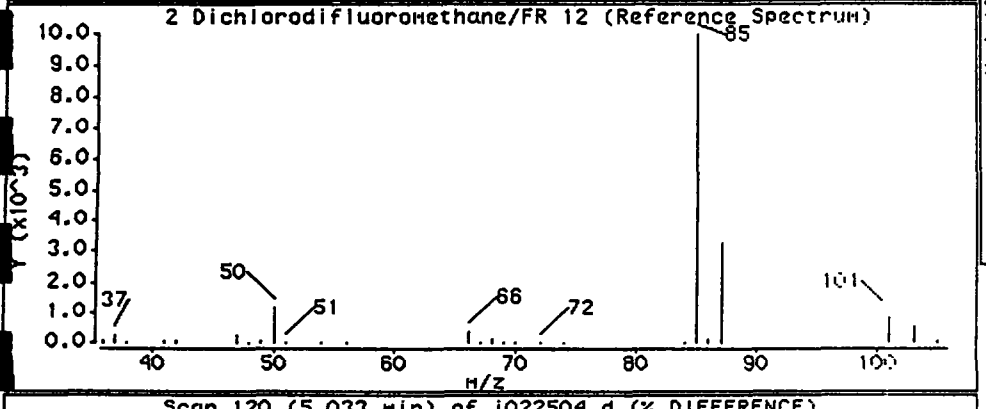
2 Dichlorodifluoromethane/FR 12

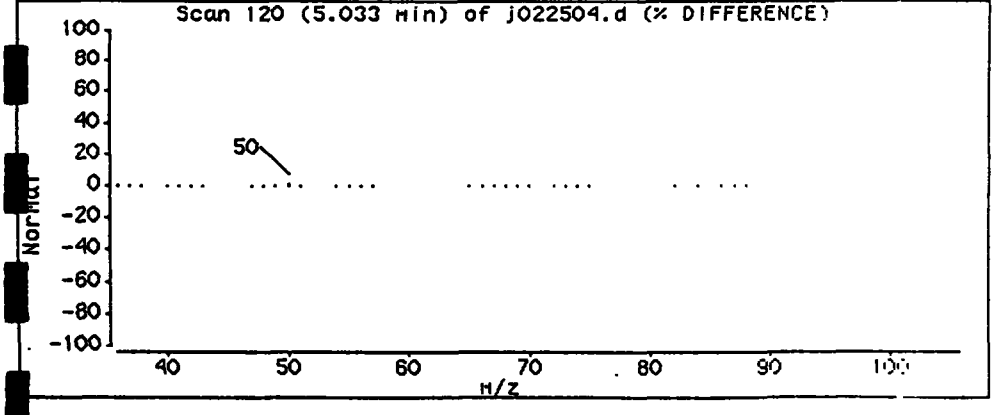












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

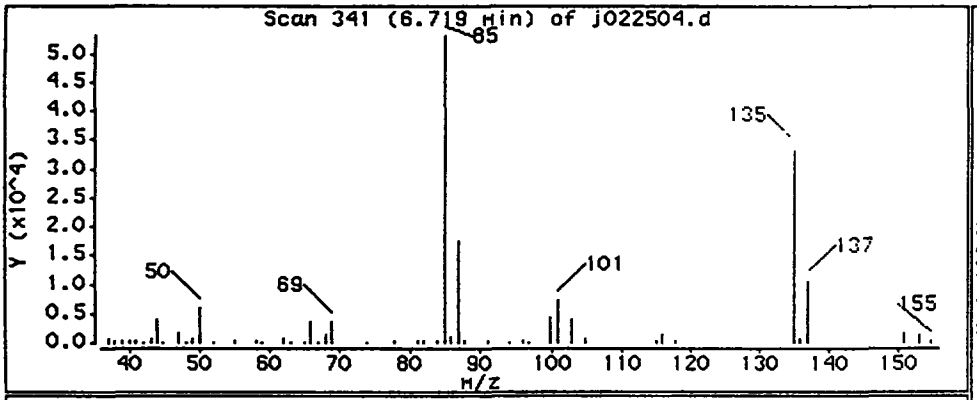
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

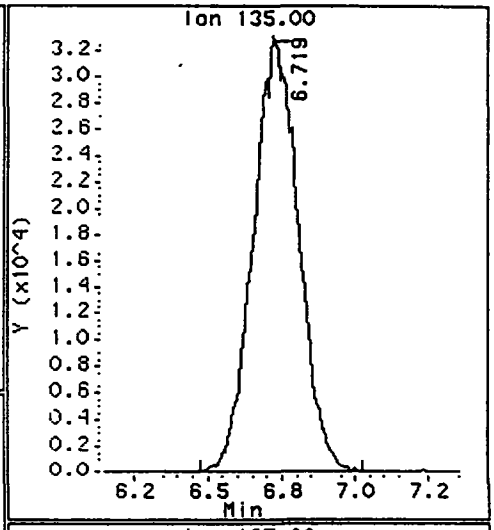
Operator: MH

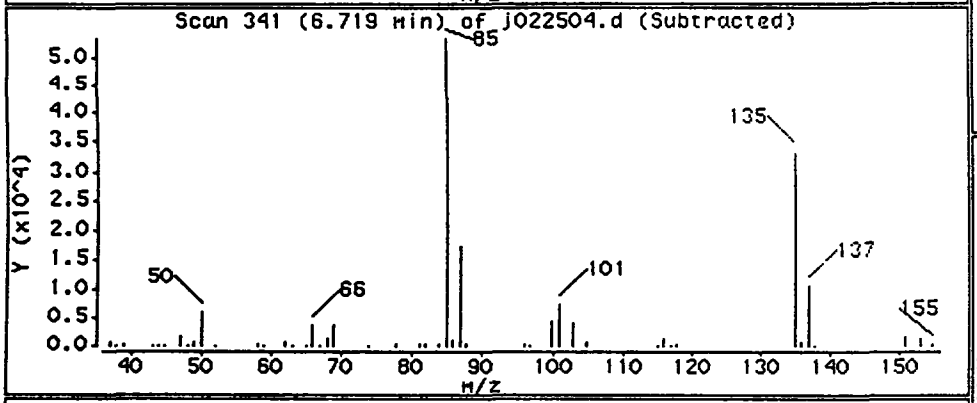
Column phase: RTx-624

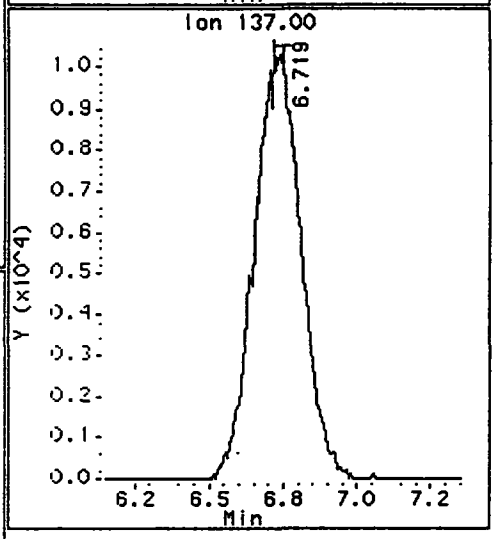
Column diameter: 0.58

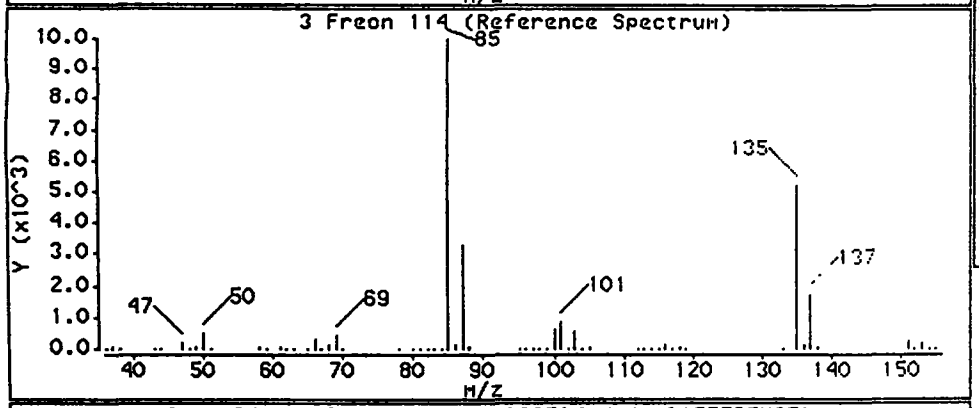
3 Freon 114

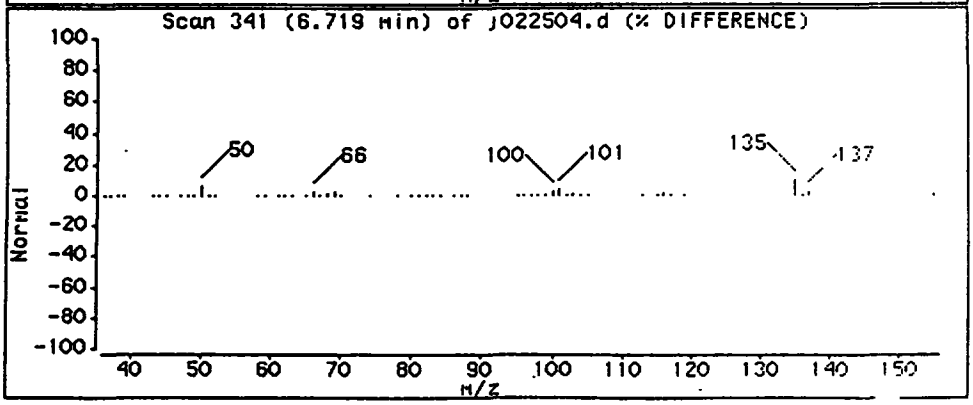






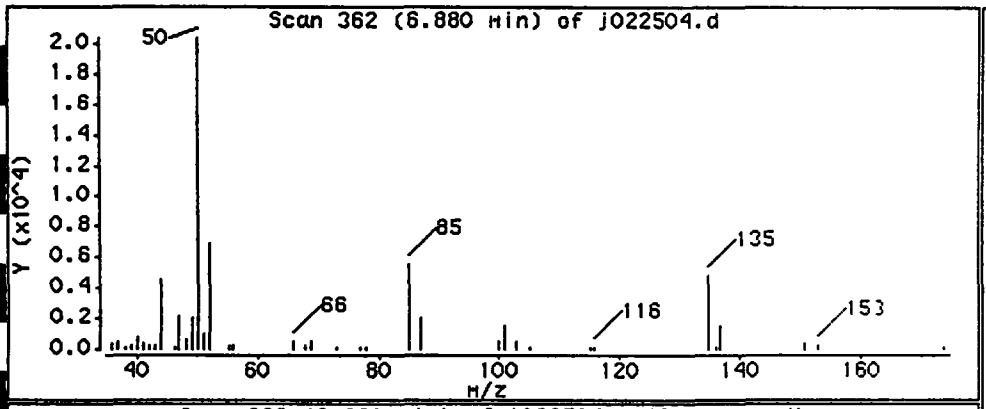


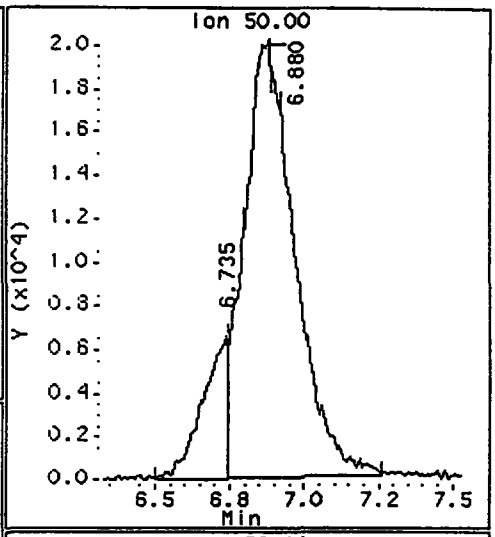


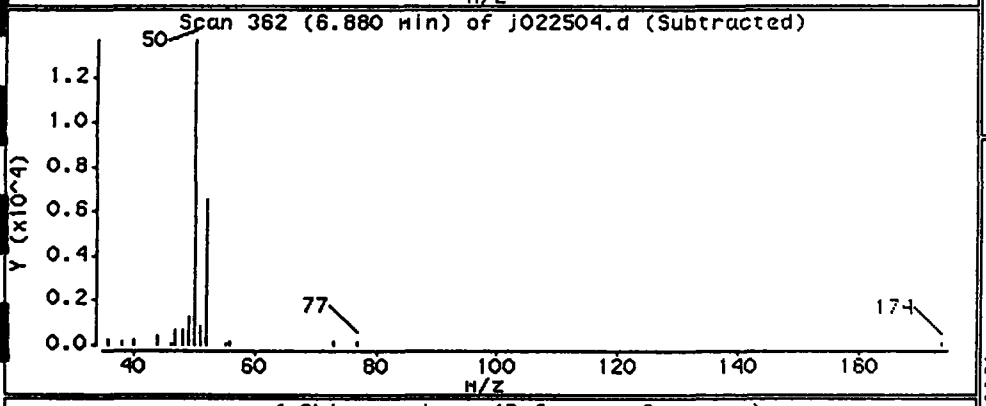


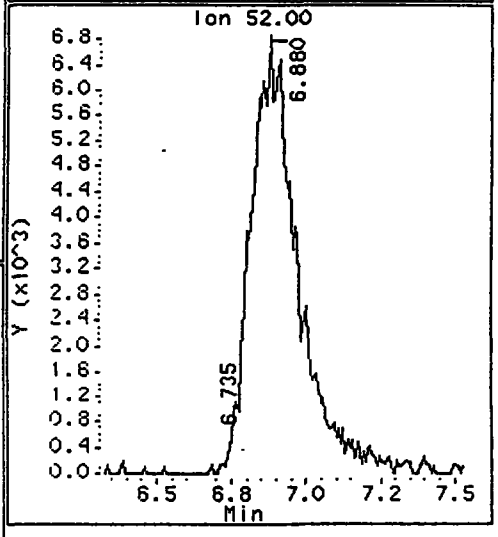
Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Client ID: Method Spike
Instrument: msdj.i
Sample Info: #296-71 T014 Std. 25mL (5ppbv)
Operator: MH
Column phase: RTx-624
Column diameter: 0.58

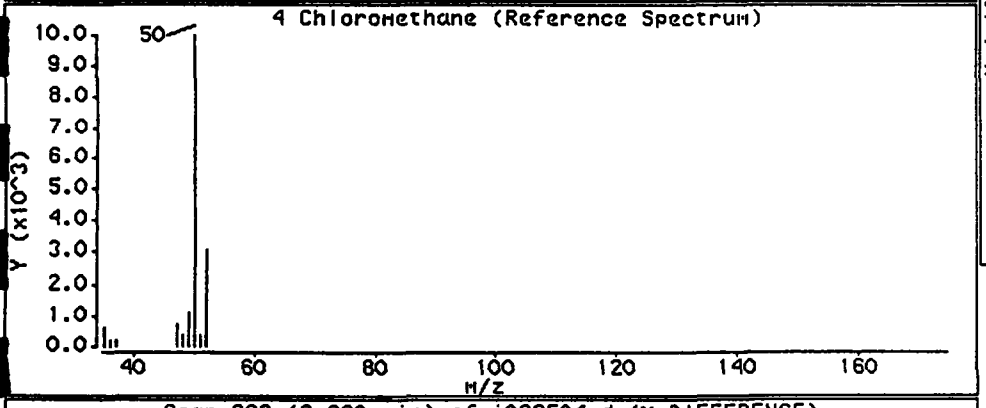
4 Chloromethane

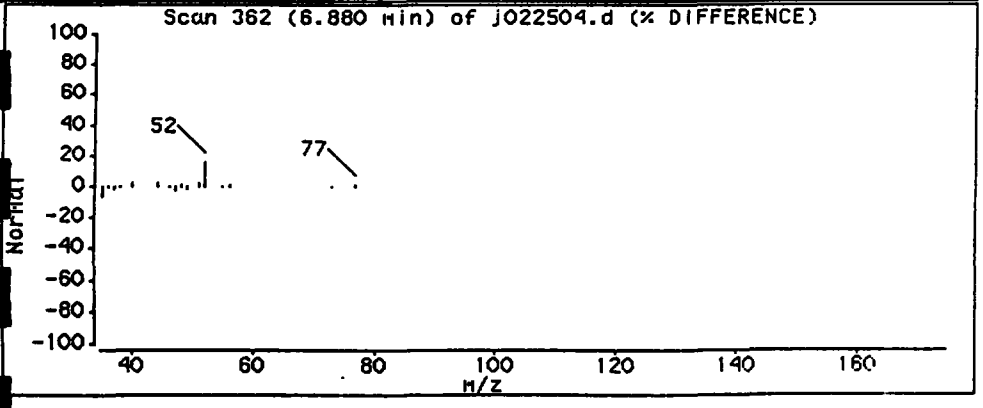












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

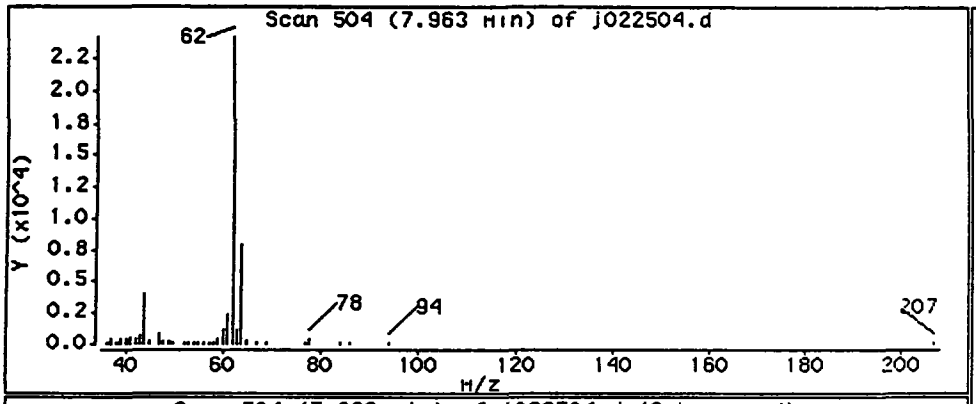
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

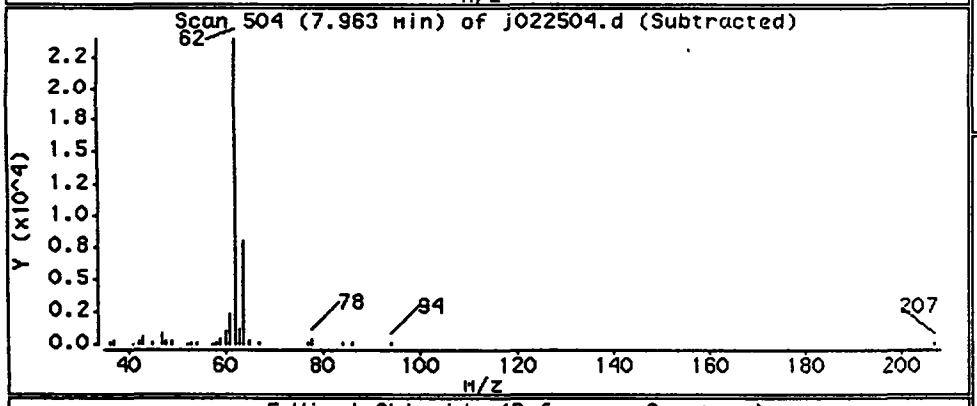
Operator: MH

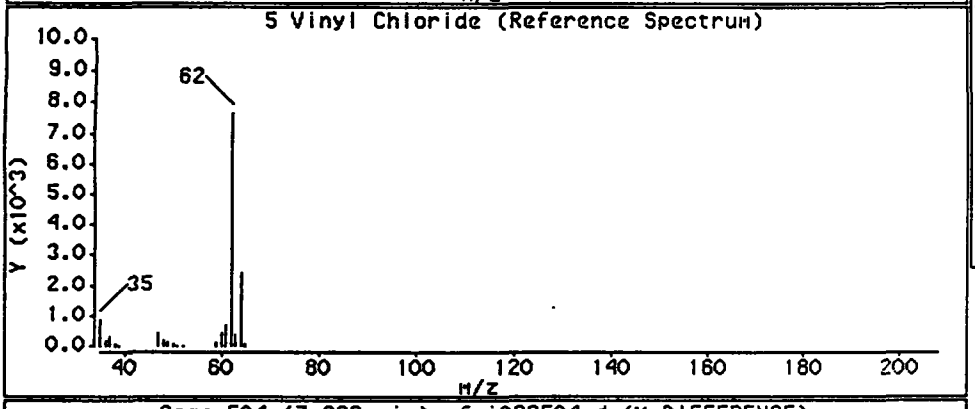
Column phase: RTx-624

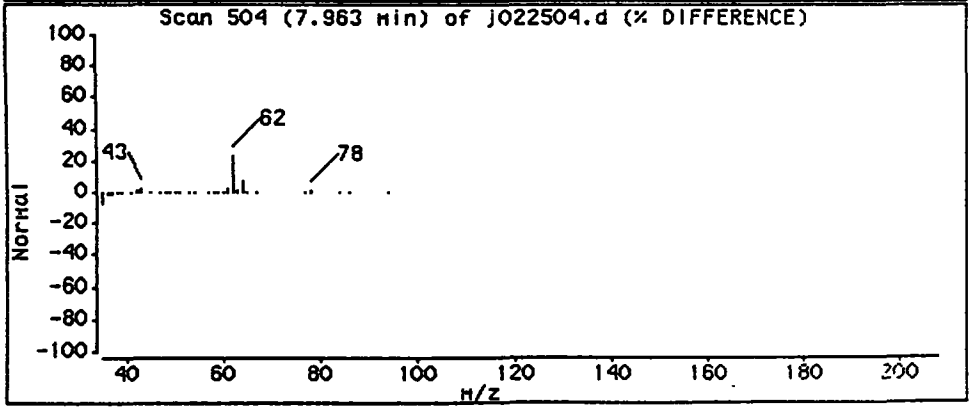
Column diameter: 0.58

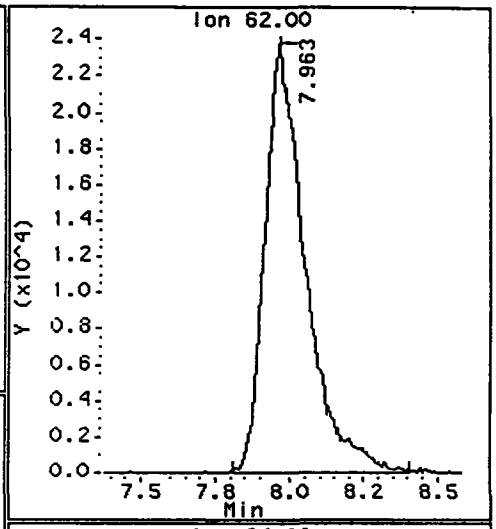
5 Vinyl Chloride

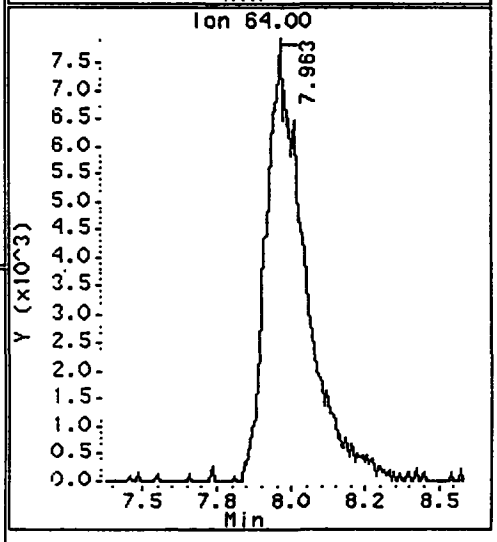












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

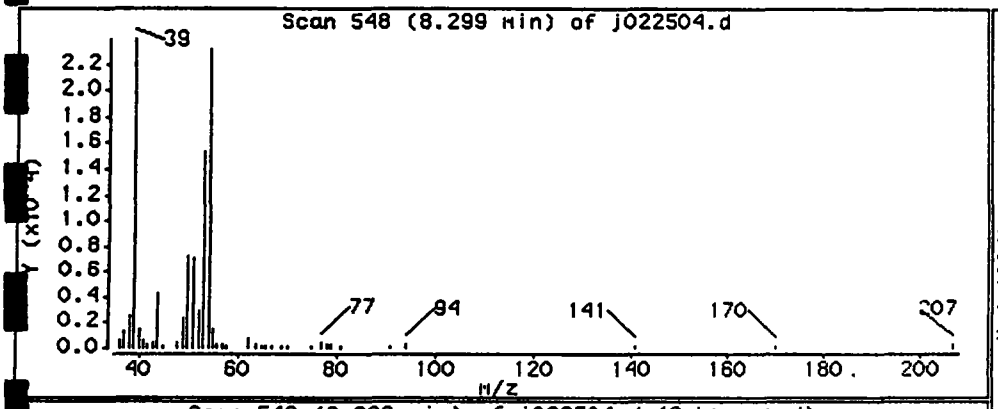
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

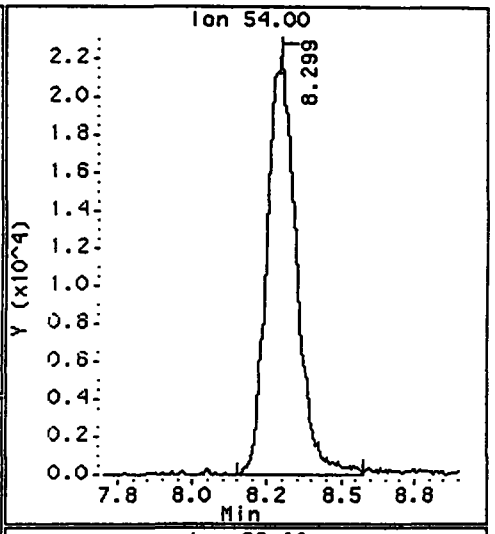
Operator: MH

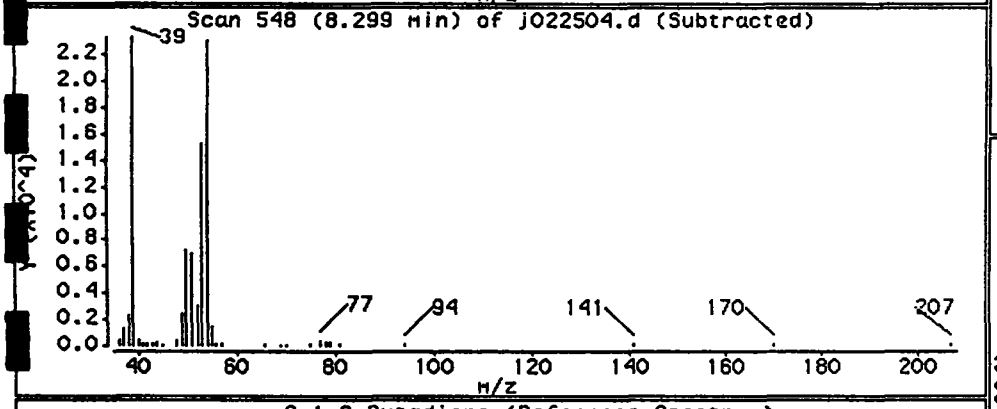
Column phase: RTx-624

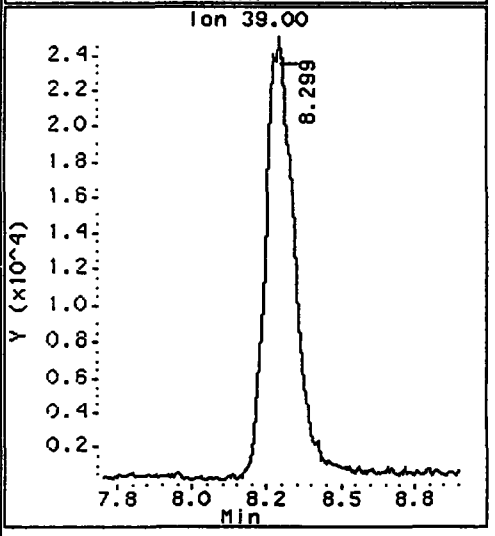
Column diameter: 0.58

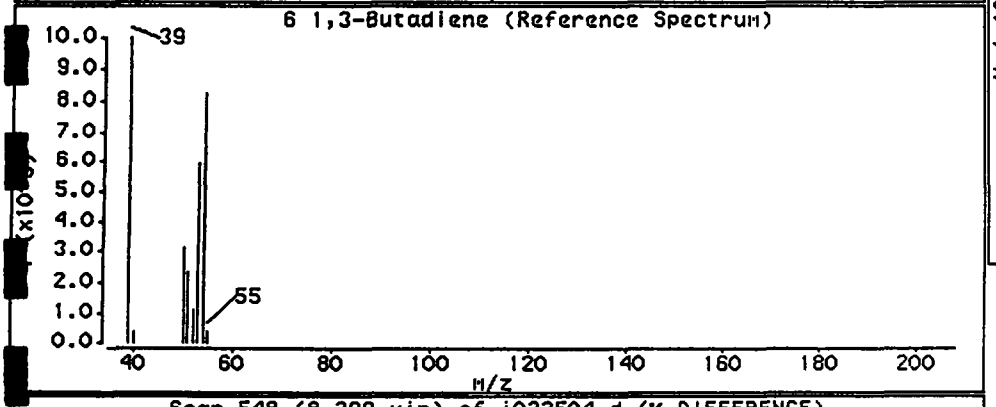
6 1,3-Butadiene

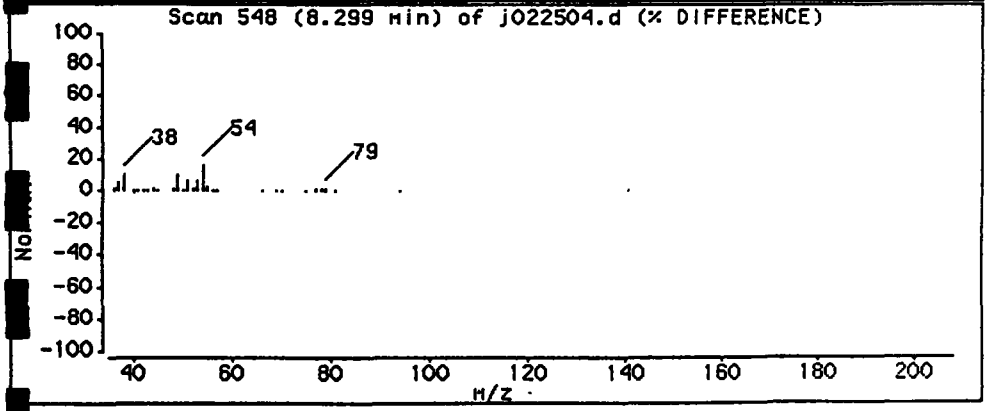












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

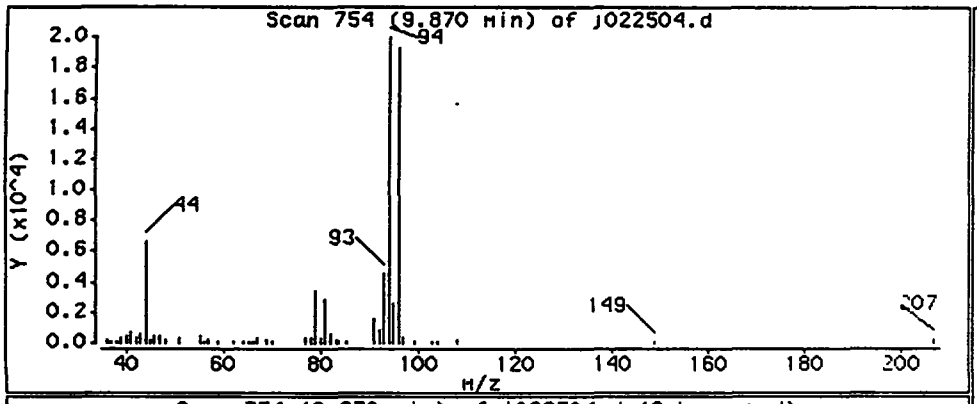
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

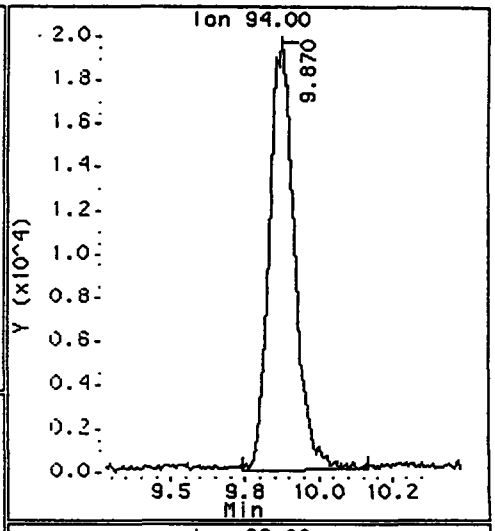
Operator: MH

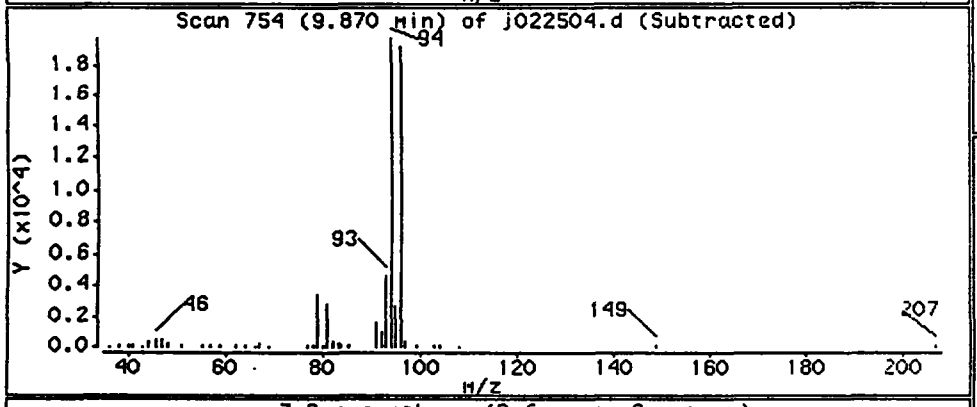
Column phase: RTx-624

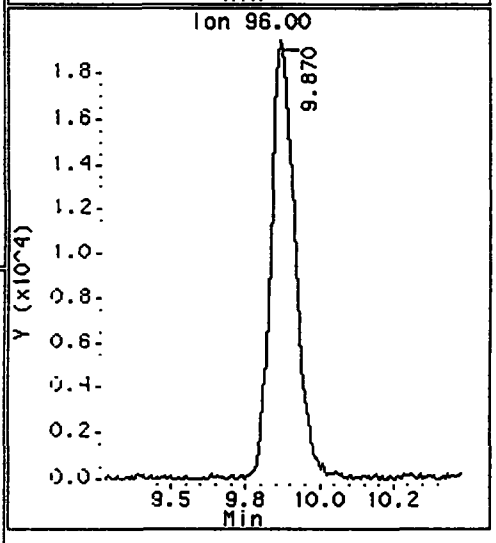
Column diameter: 0.58

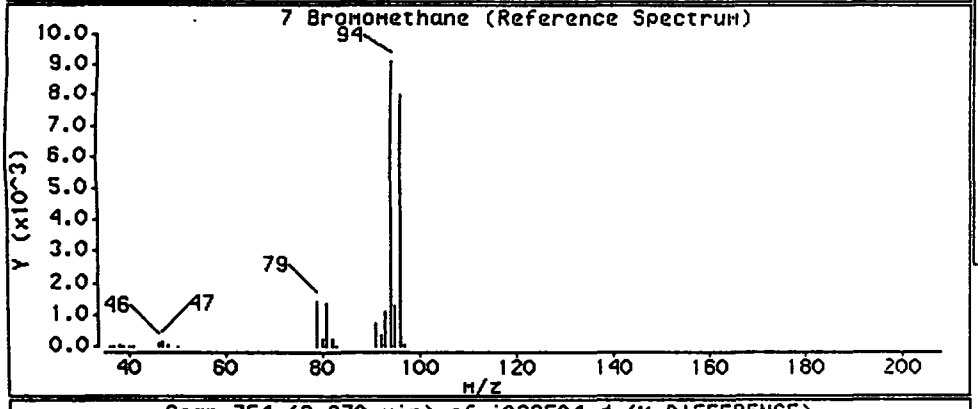
7 Bromomethane

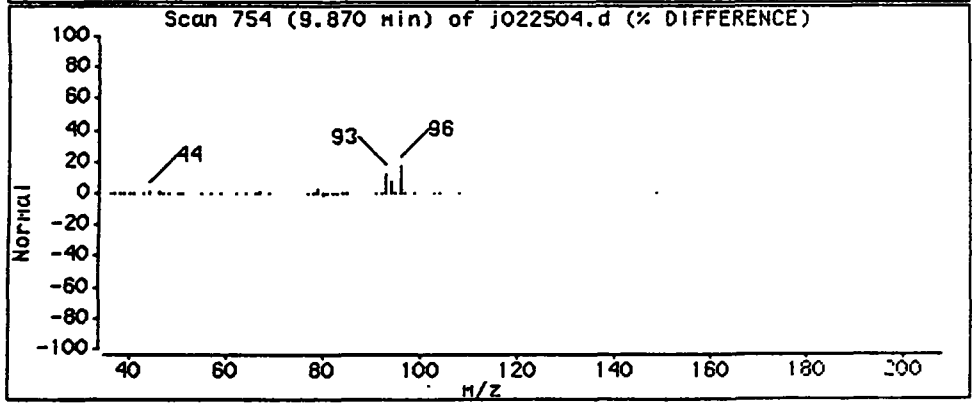












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

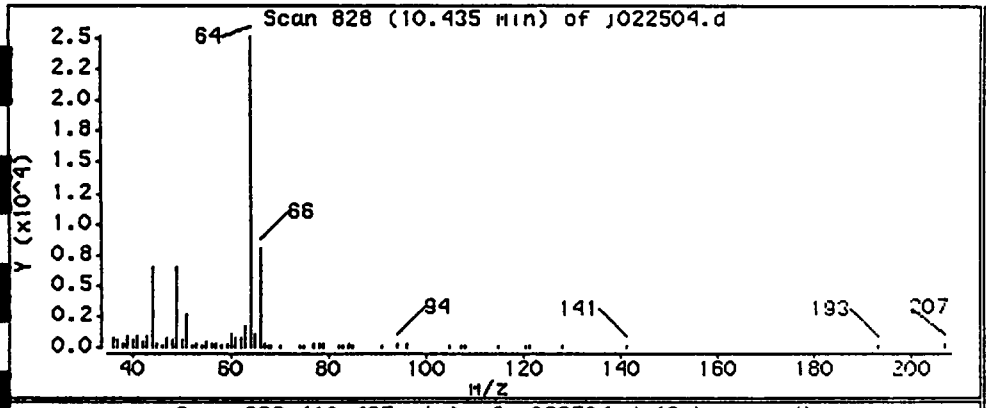
Sample Info: #296-71 TO14 Std. 25ML (5ppbv)

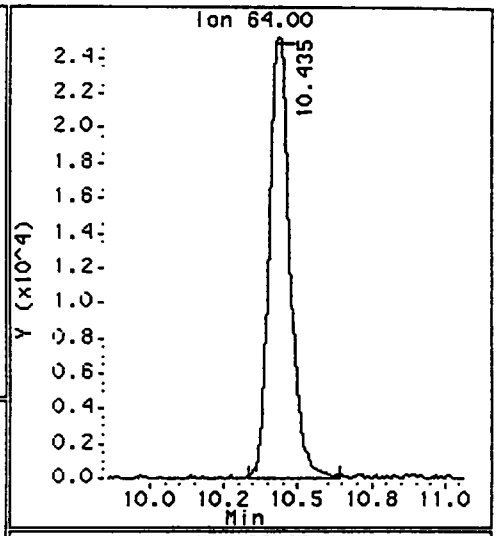
Operator: MH

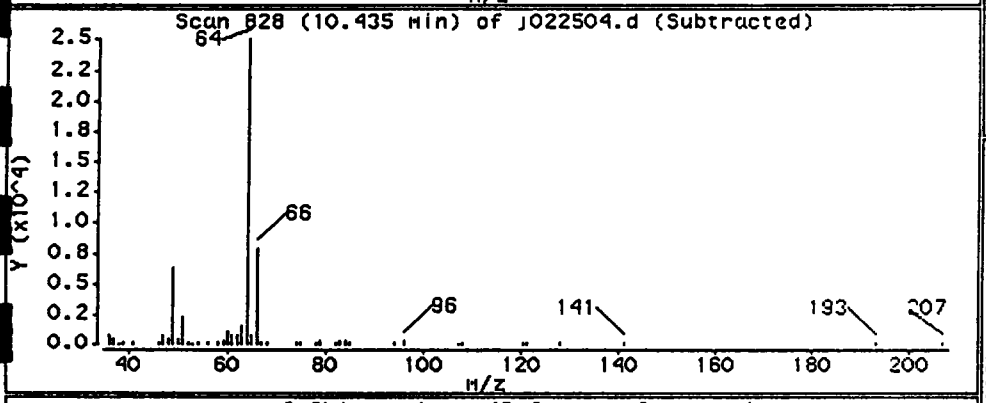
Column phase: RTx-624

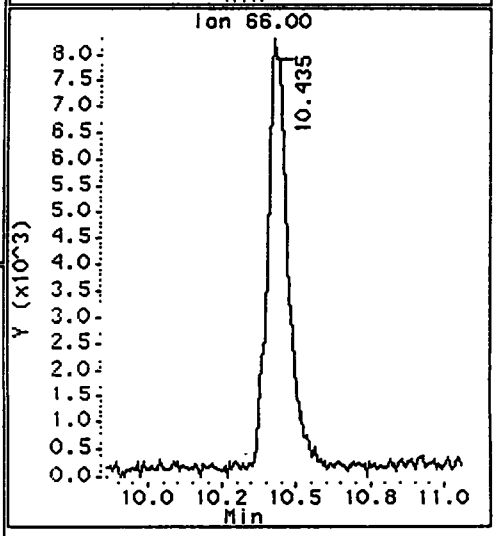
Column diameter: 0.58

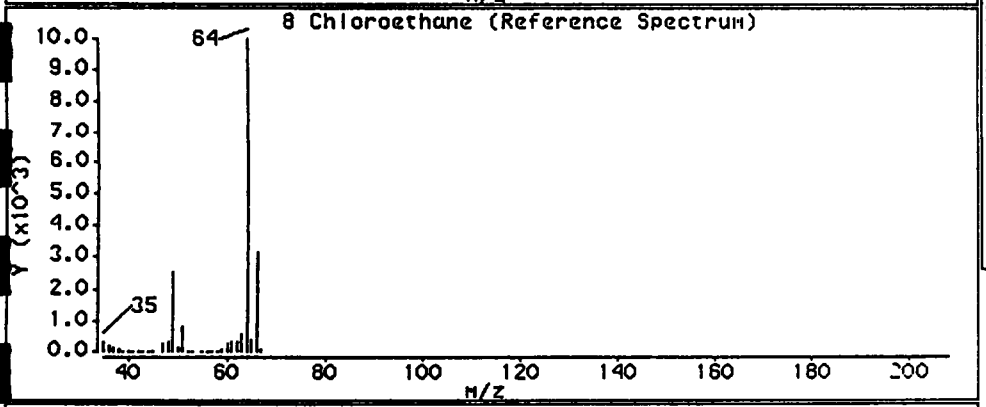
8 Chloroethane

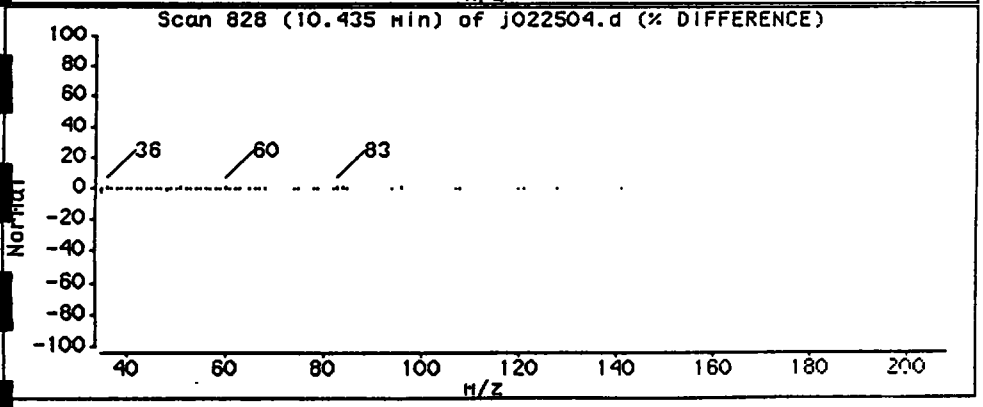












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

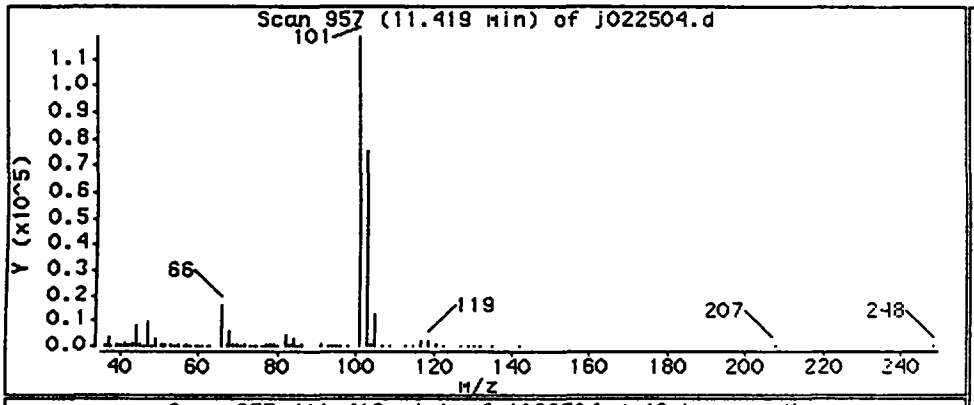
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

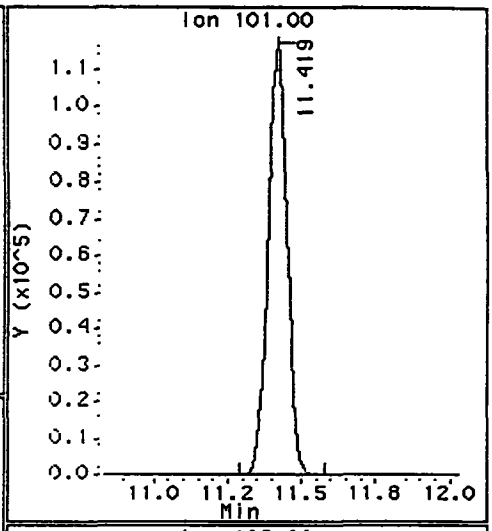
Operator: MH

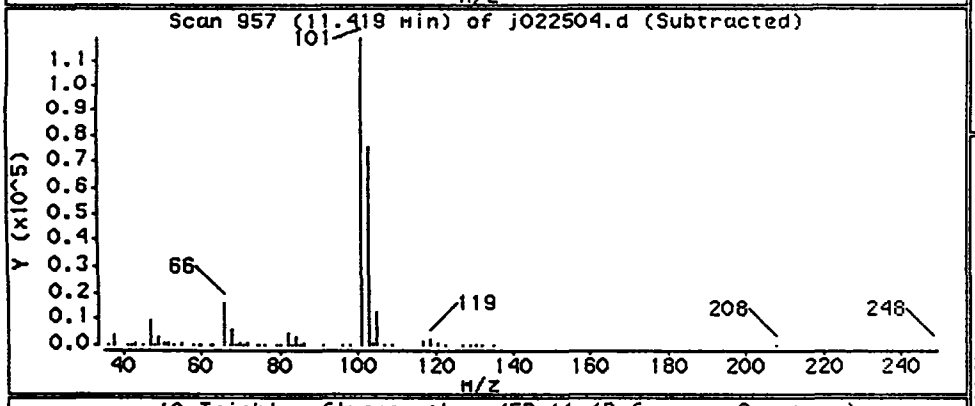
Column phase: RTx-624

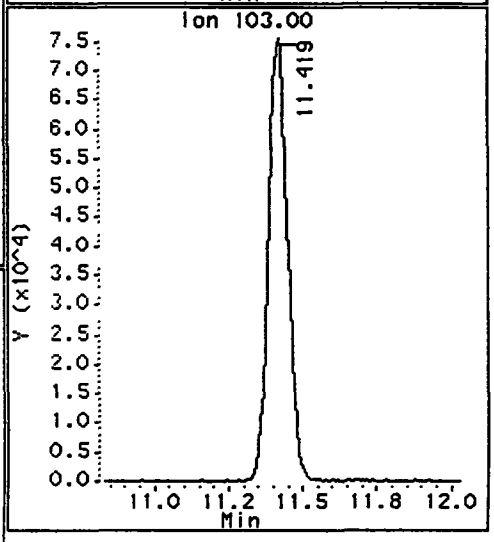
Column diameter: 0.58

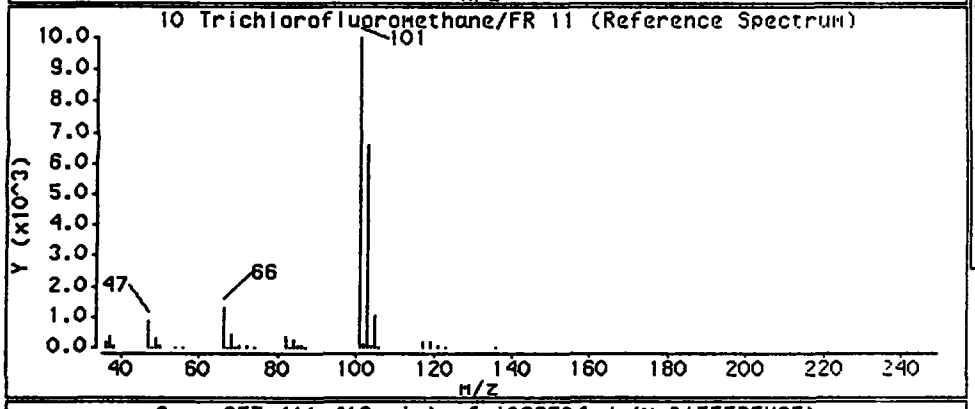
10 Trichlorofluoromethane/FR 11

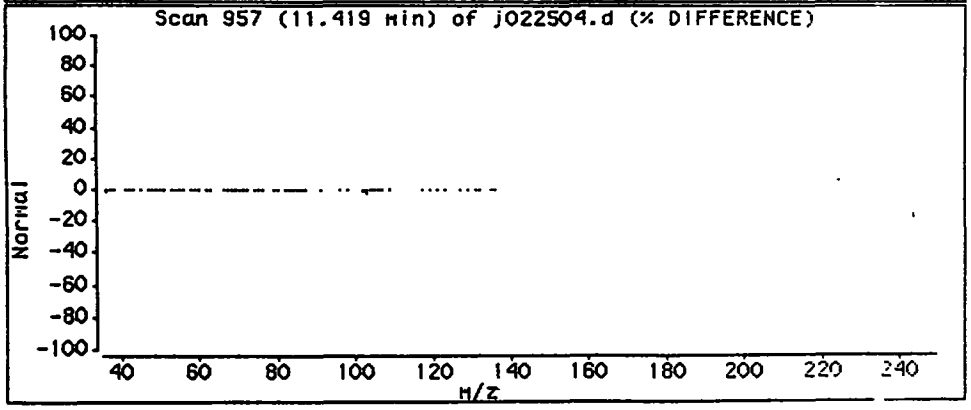












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

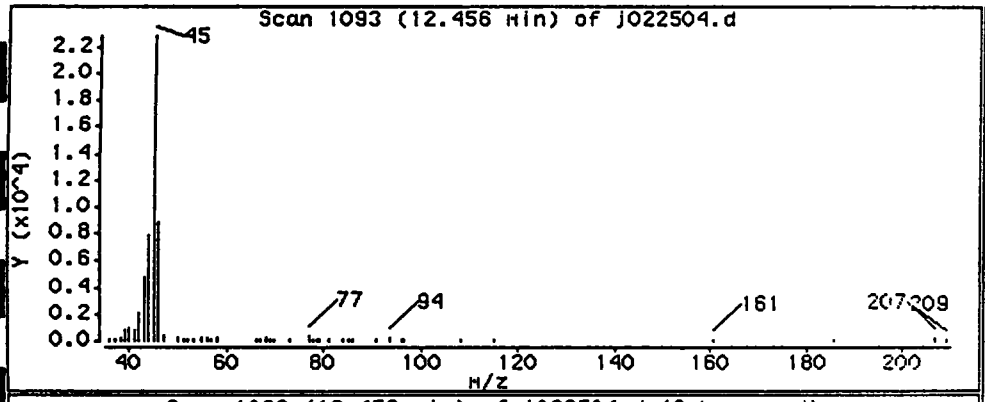
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

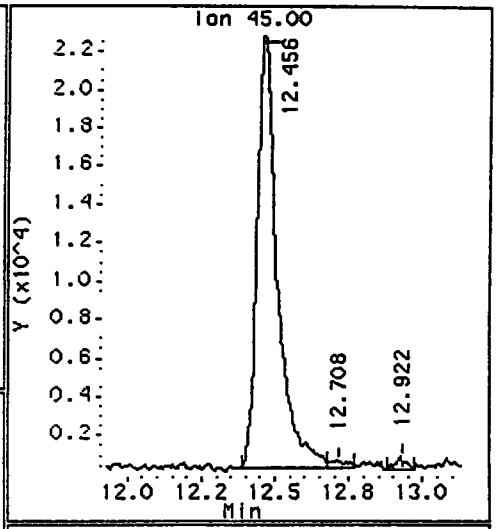
Operator: MH

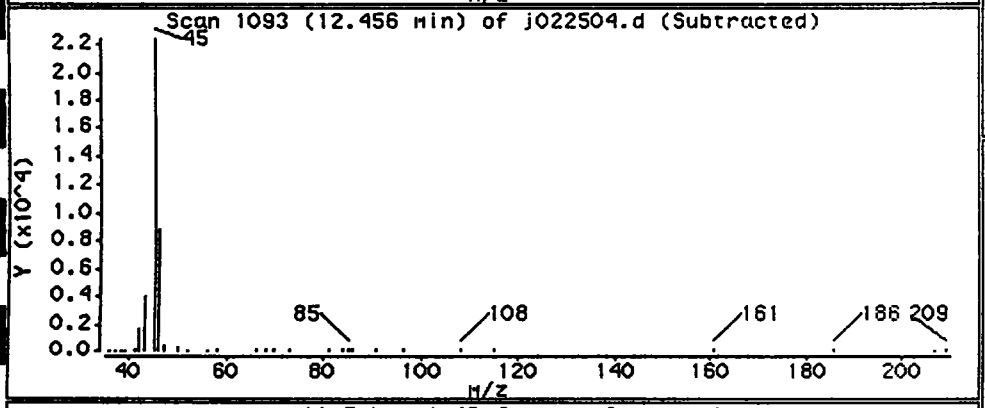
Column phase: RTx-624

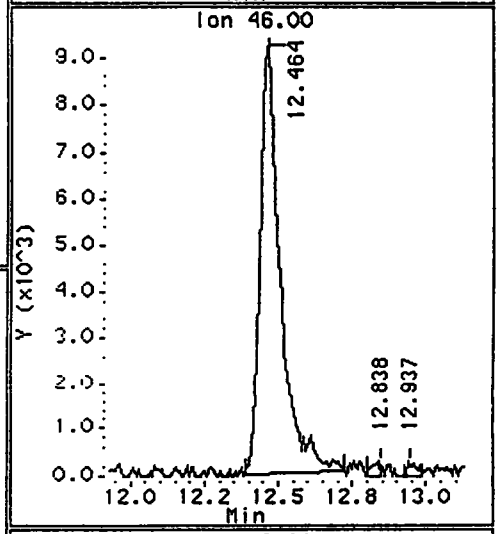
Column diameter: 0.58

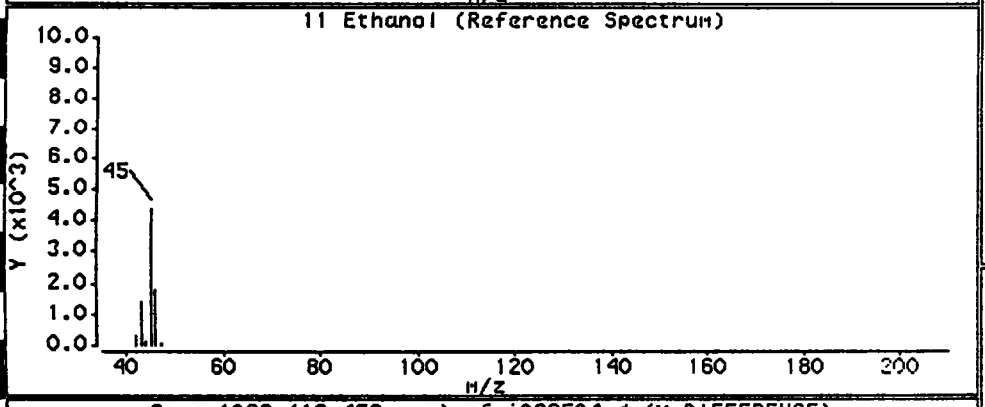
11 Ethanol

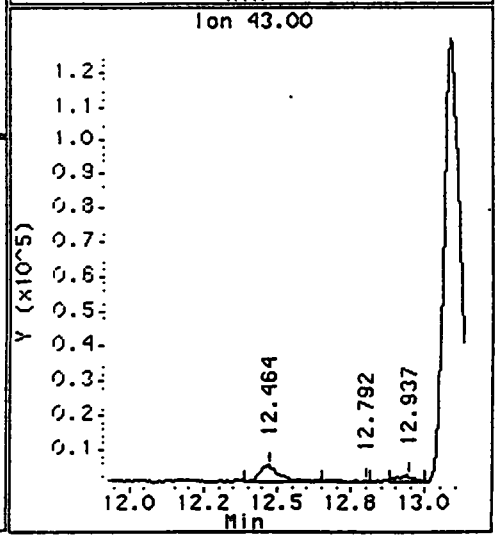


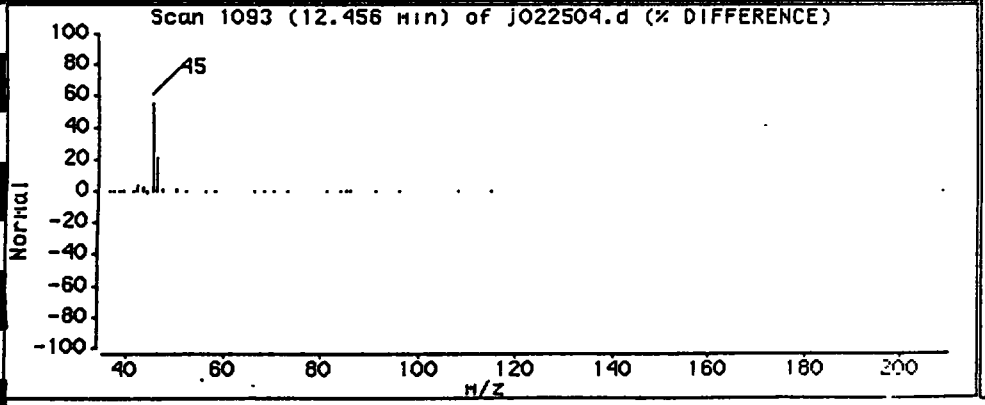






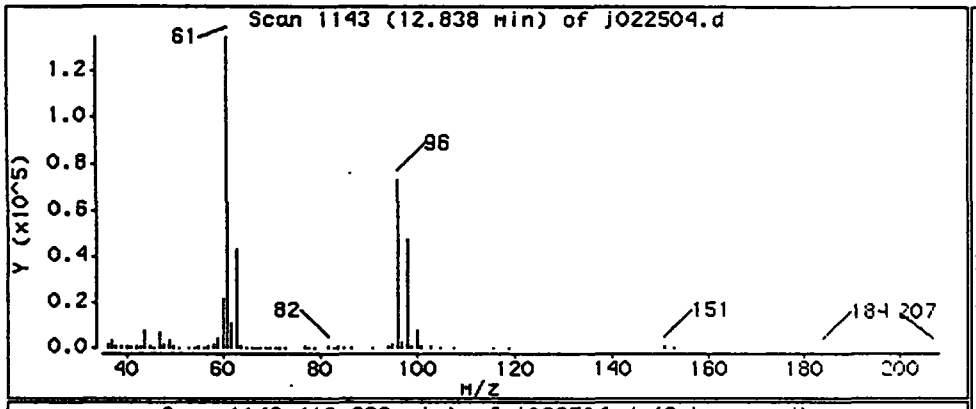


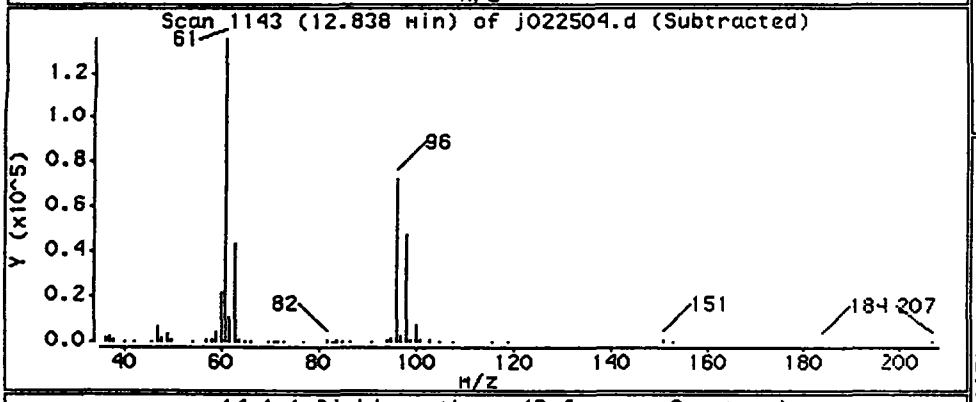


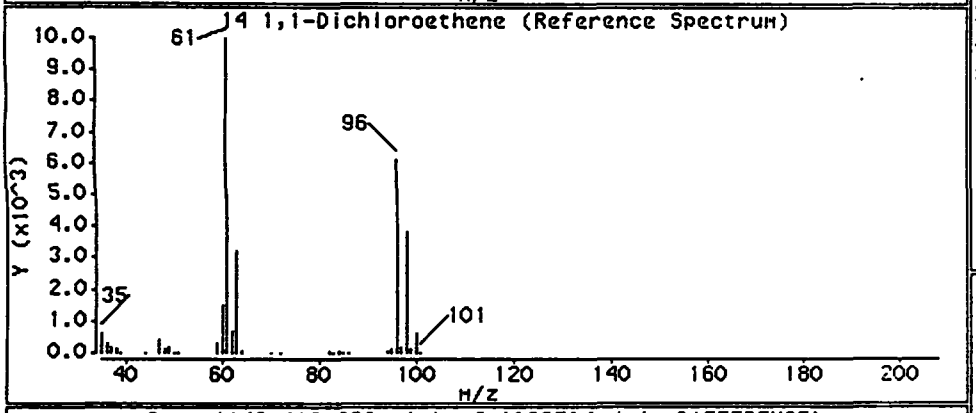


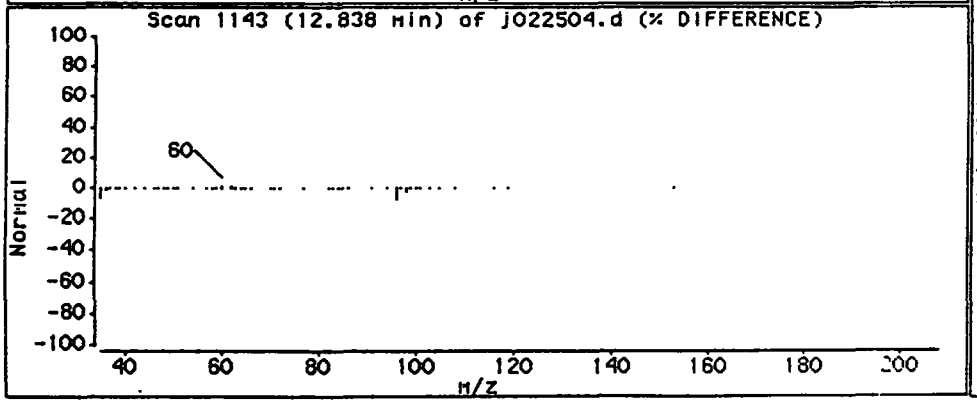
Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Client ID: Method Spike
Sample Info: #296-71 T014 Std. 25mL (5ppbv)
Instrument: msdj.i
Operator: MH
Column phase: RTx-624
Column diameter: 0.58

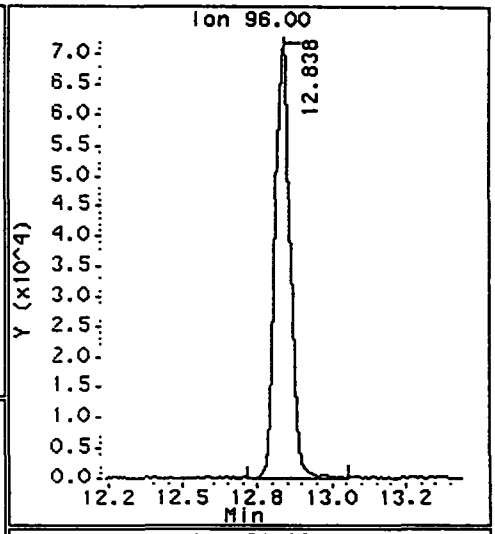
14 1,1-Dichloroethene

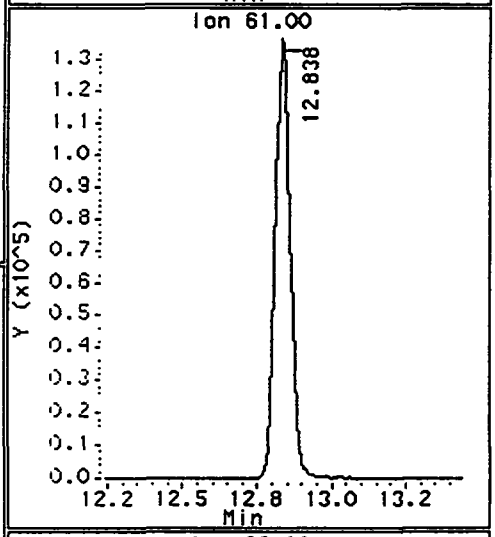


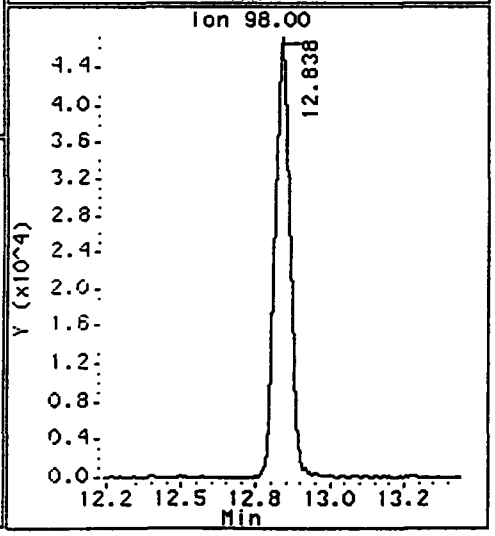












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

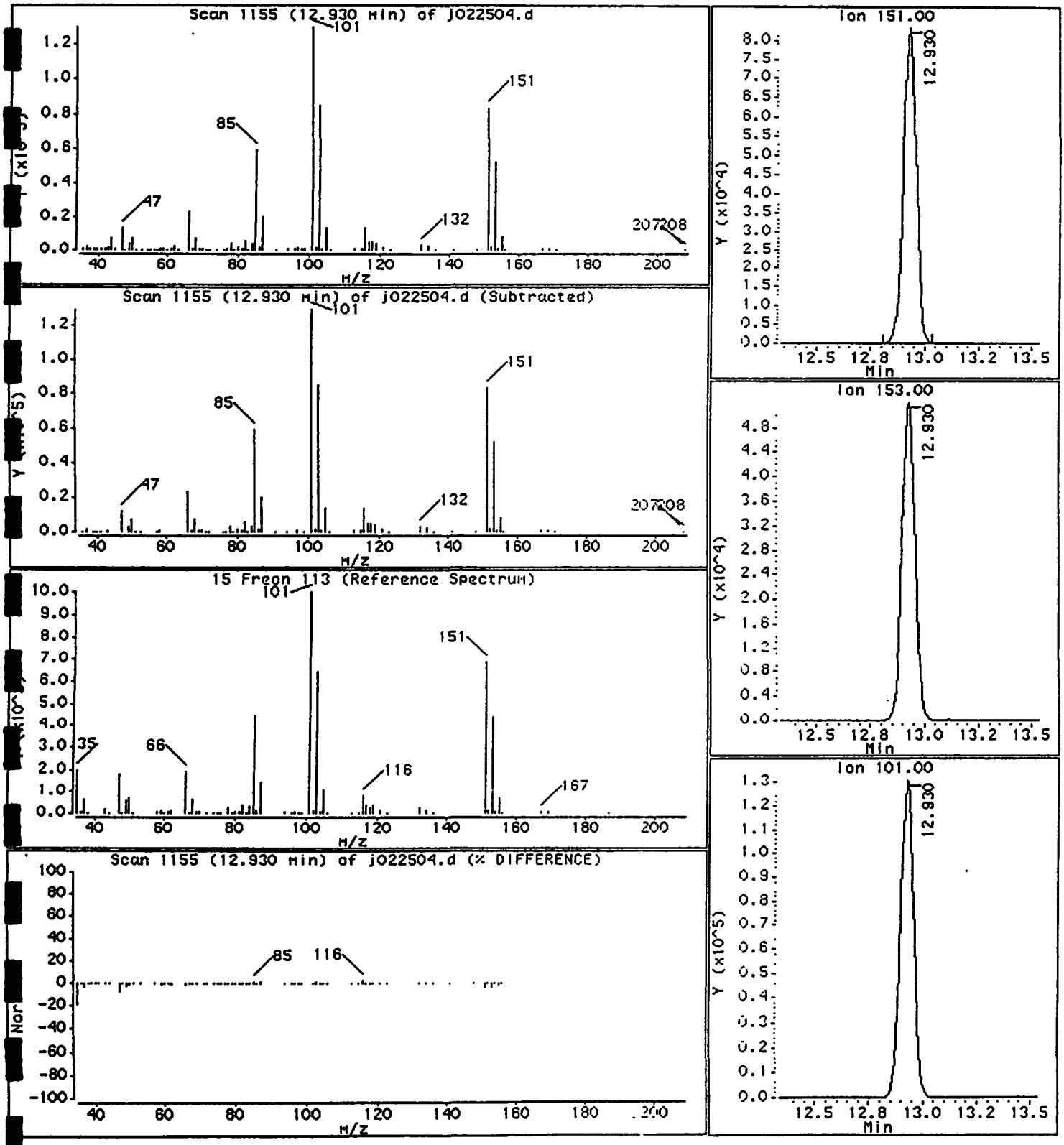
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

Operator: MH

Column phase: RTx-624

Column diameter: 0.58

15 Freon 113



Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

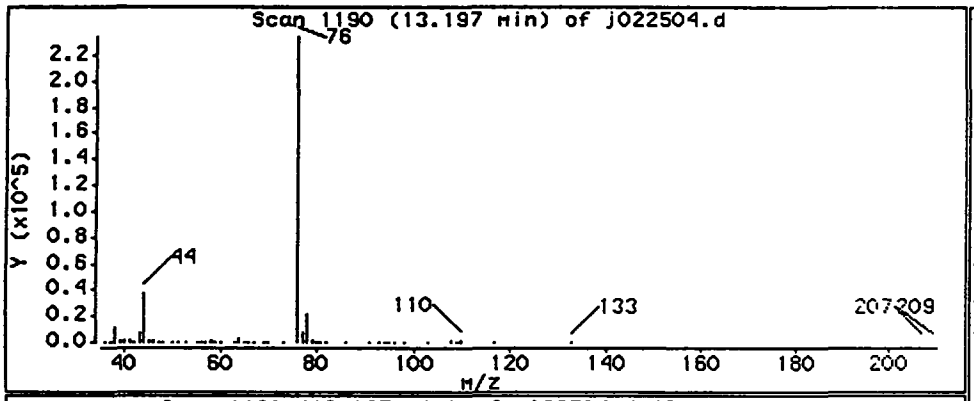
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

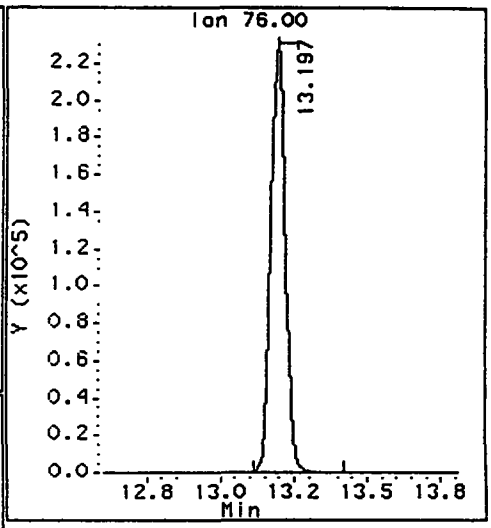
Operator: MH

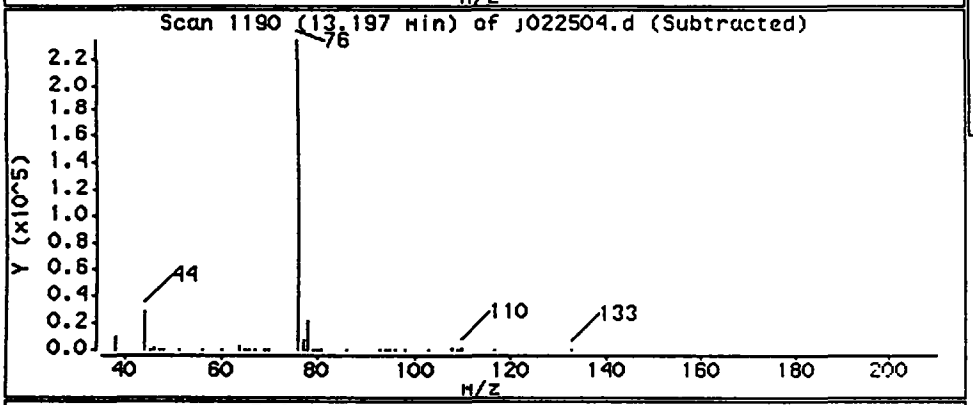
Column phase: RTx-624

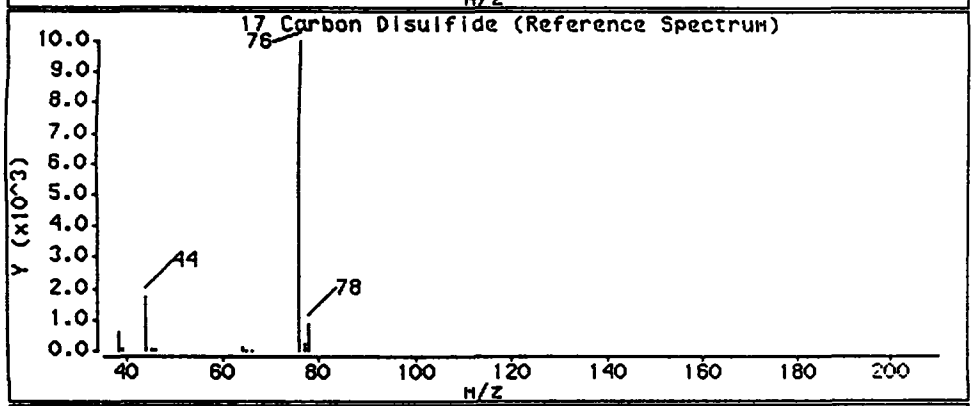
Column diameter: 0.58

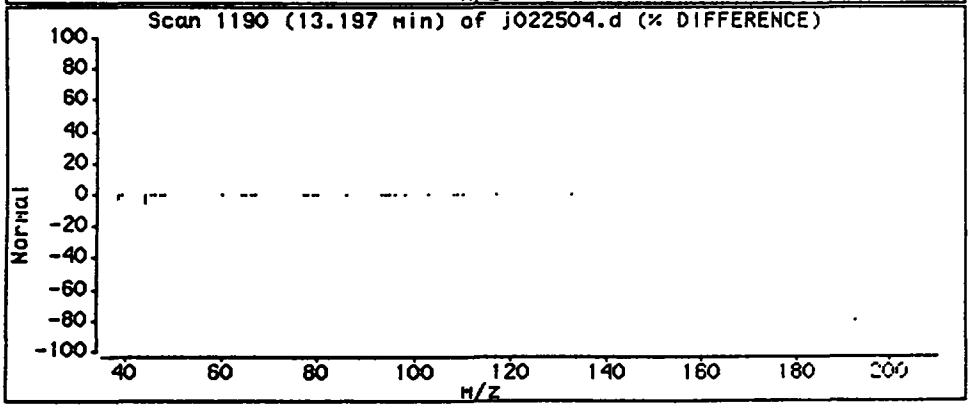
17 Carbon Disulfide











Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

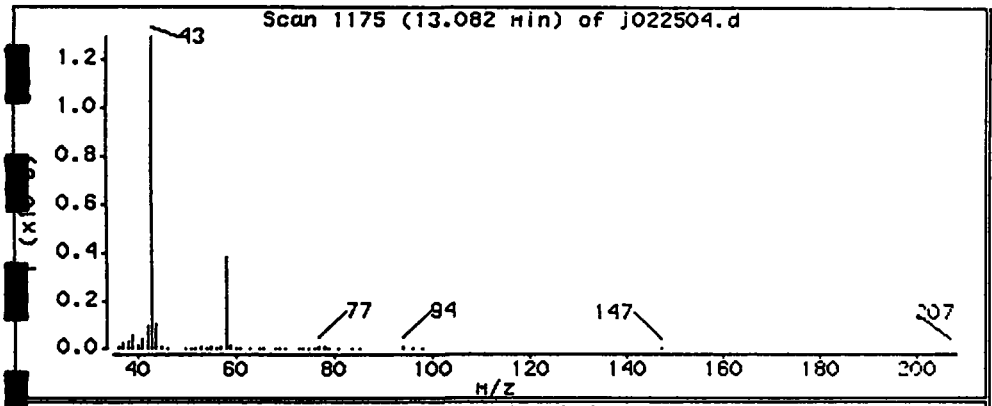
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

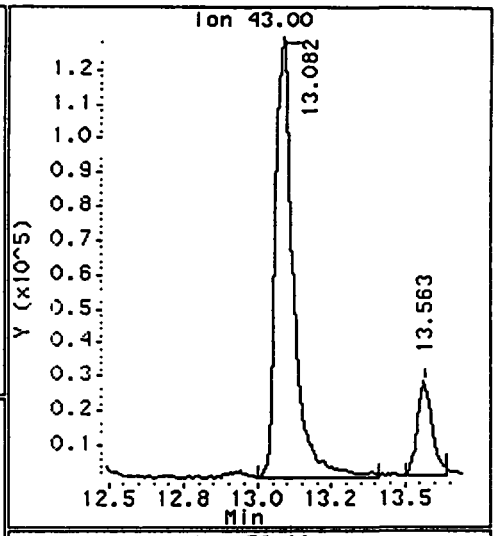
Operator: MH

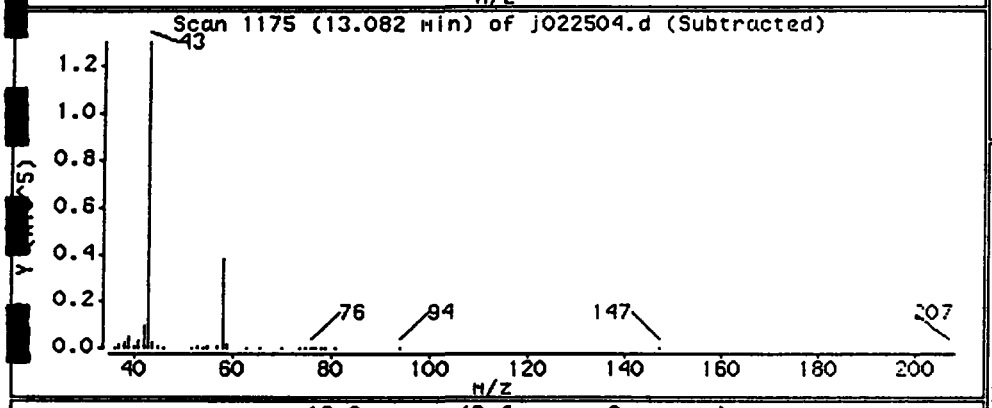
Column phase: RTx-624

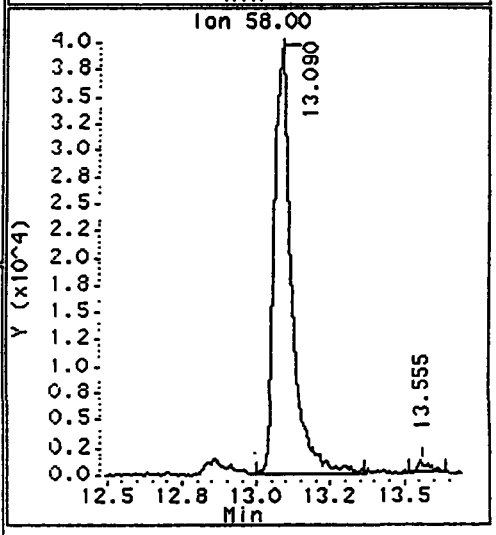
Column diameter: 0.58

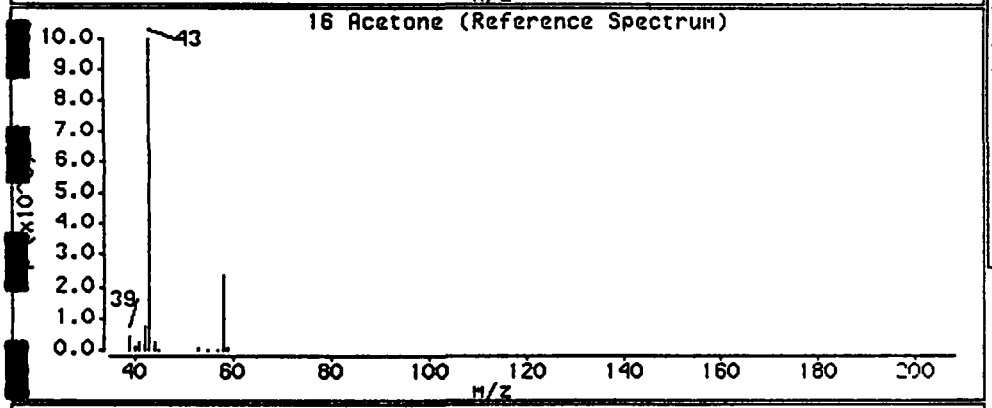
16 Acetone

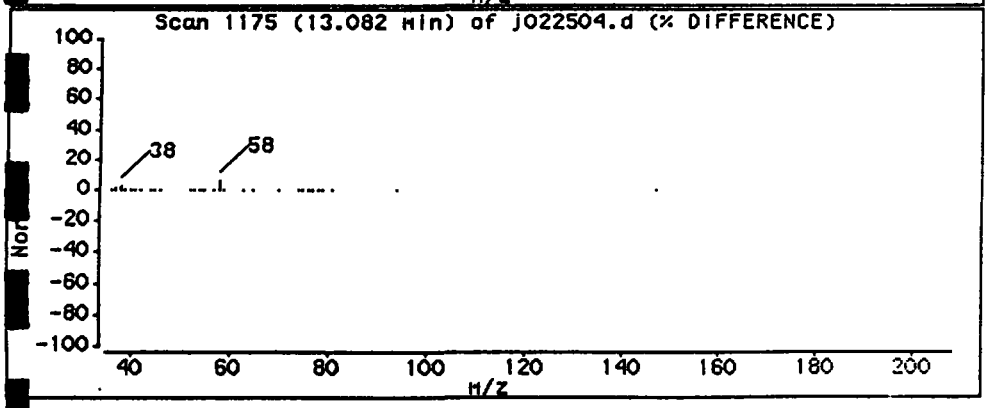






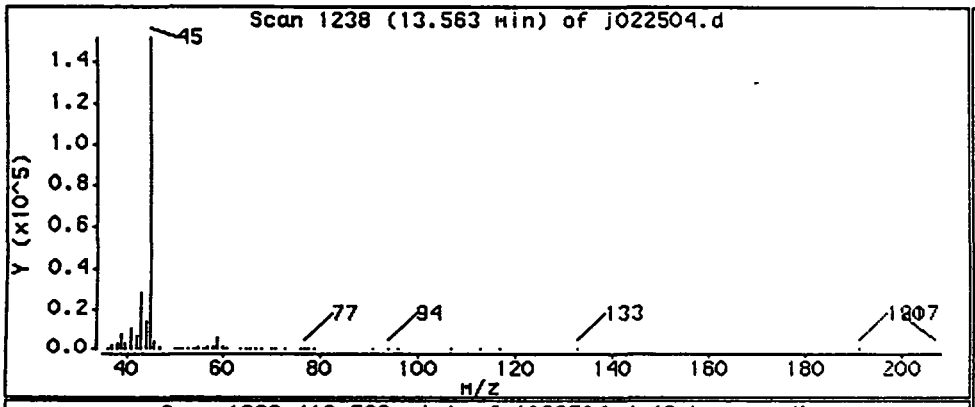


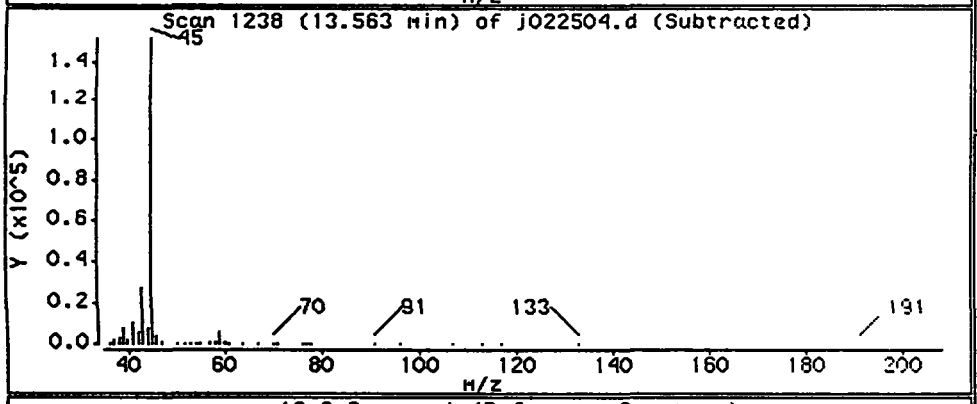


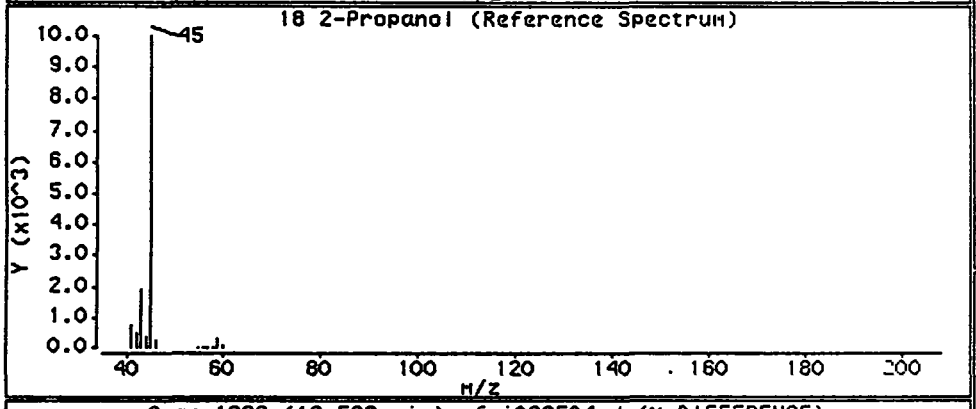


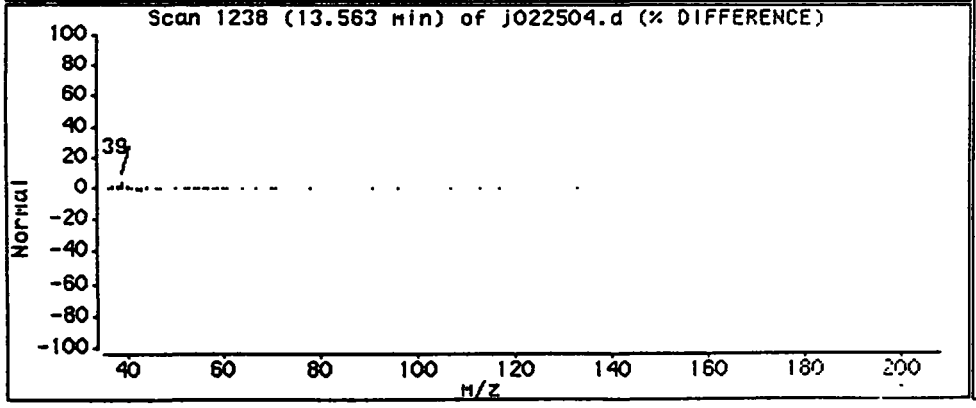
Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Client ID: Method Spike
Instrument: msdj.i
Sample Info: #296-71 T014 Std. 25mL (5ppbv)
Operator: MH
Column phase: RTx-624
Column diameter: 0.58

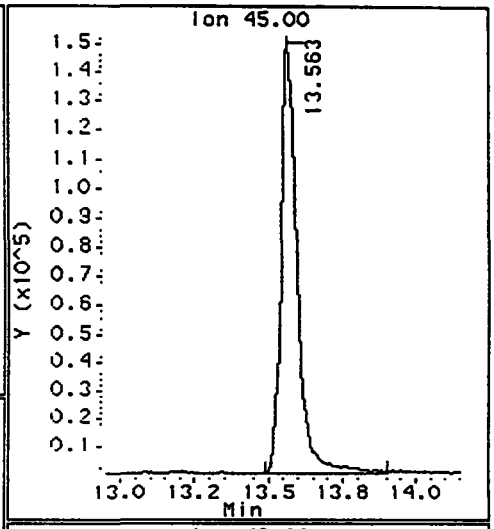
18 2-Propanol

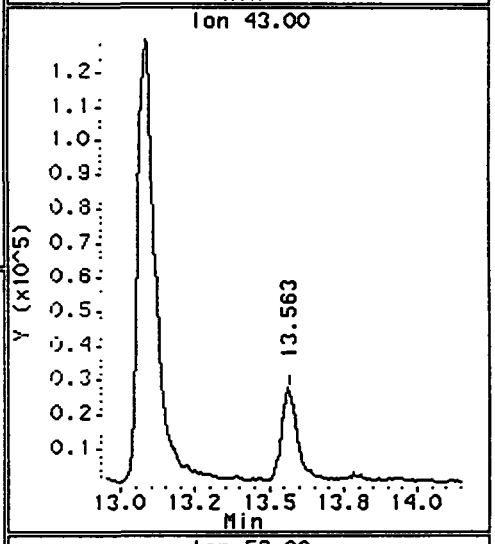


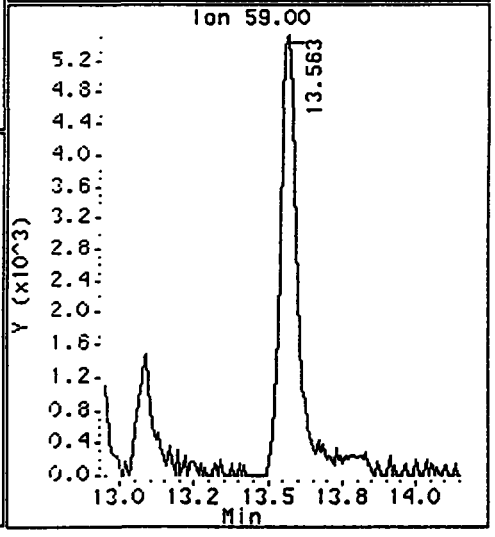






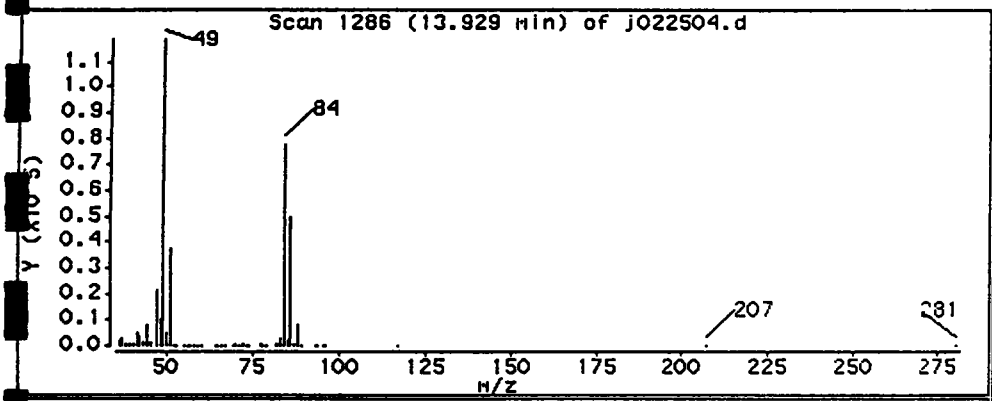


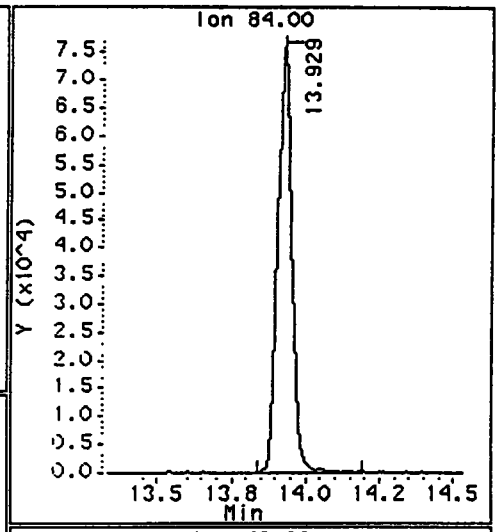


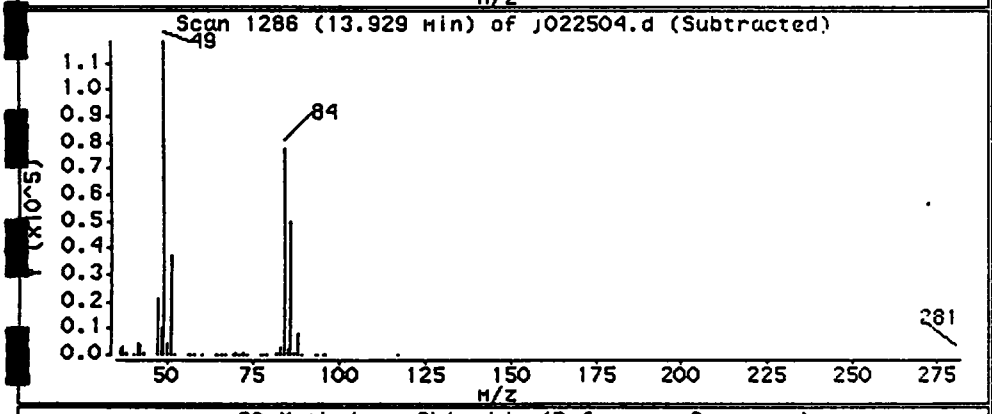


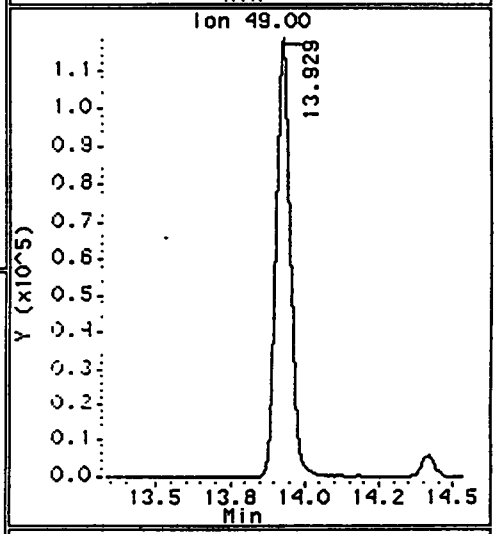
Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Client ID: Method Spike
Instrument: msdj.i
Sample Info: #296-71 T014 Std. 25mL (5ppbv)
Operator: MH
Column phase: RTx-624
Column diameter: 0.58

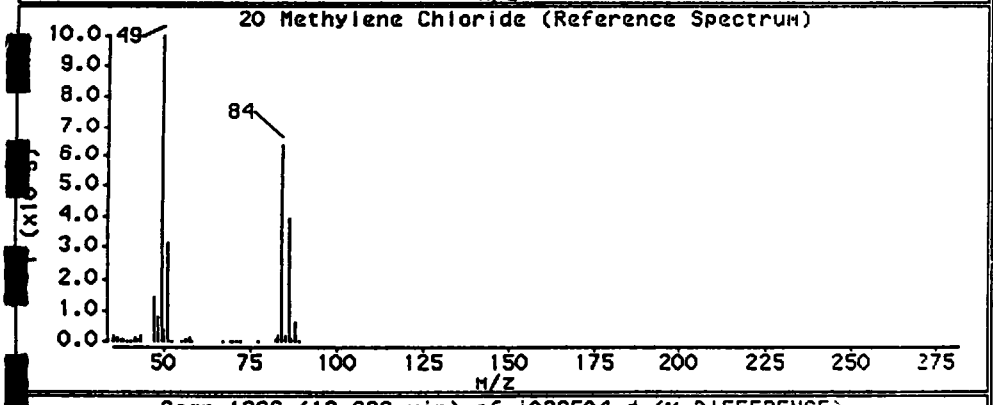
20 Methylene Chloride

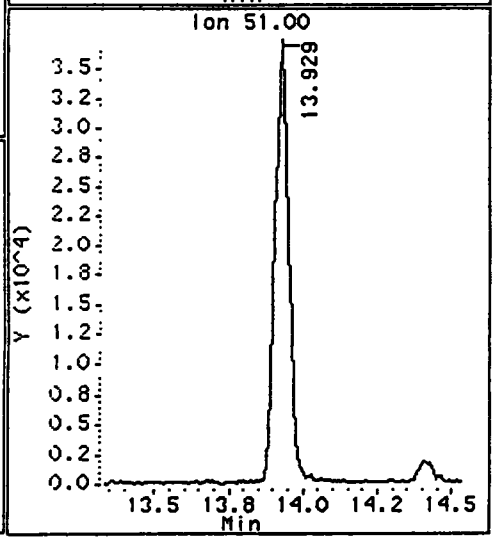


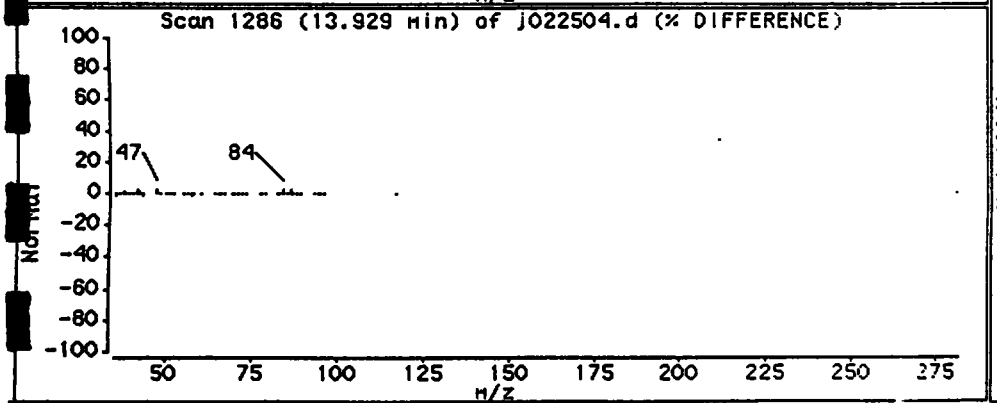












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

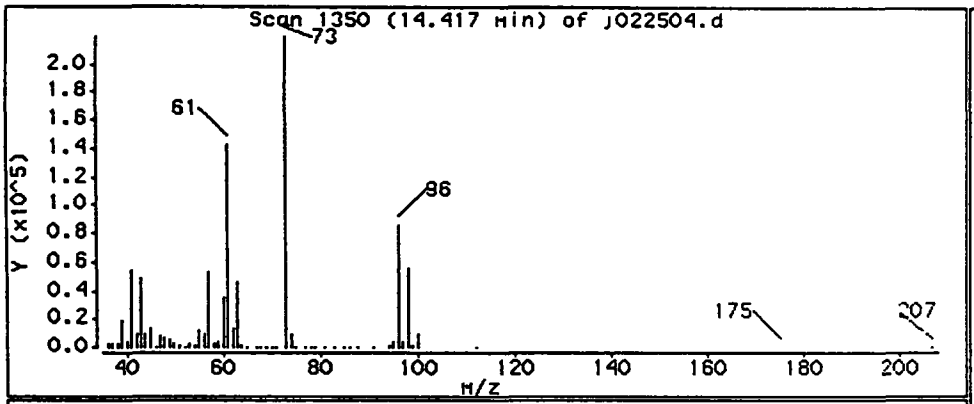
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

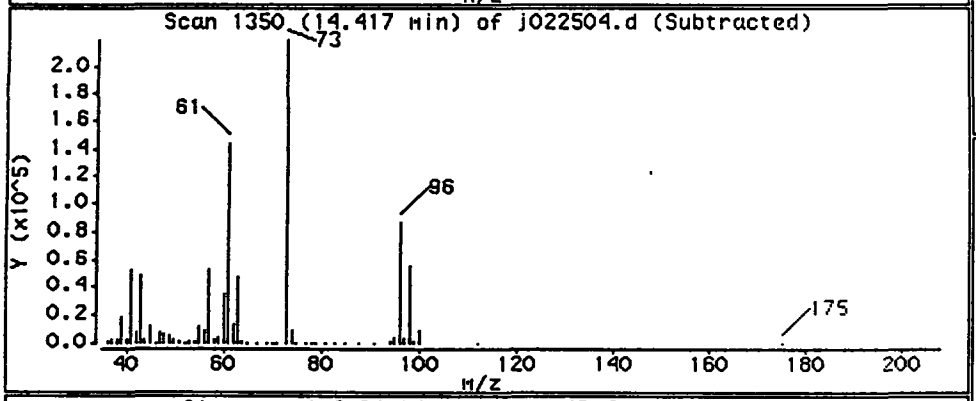
Operator: MH

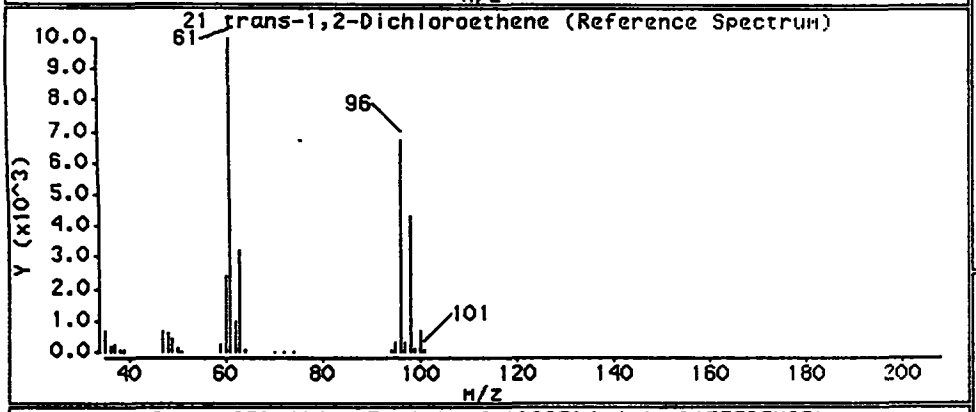
Column phase: RTx-624

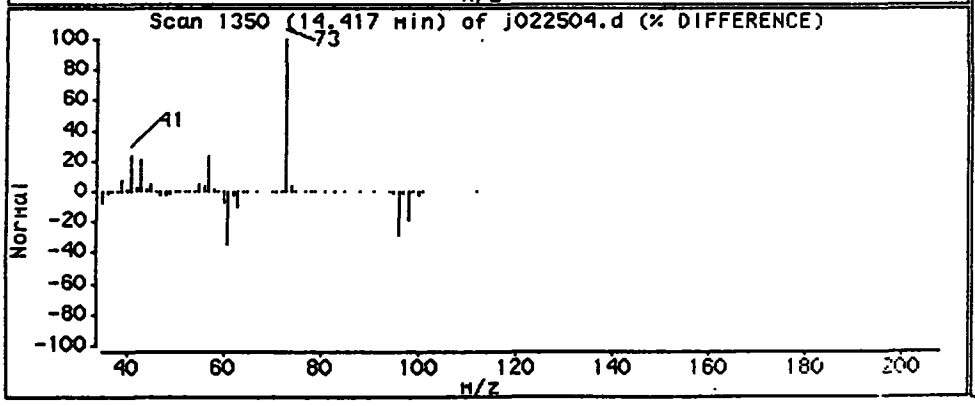
Column diameter: 0.58

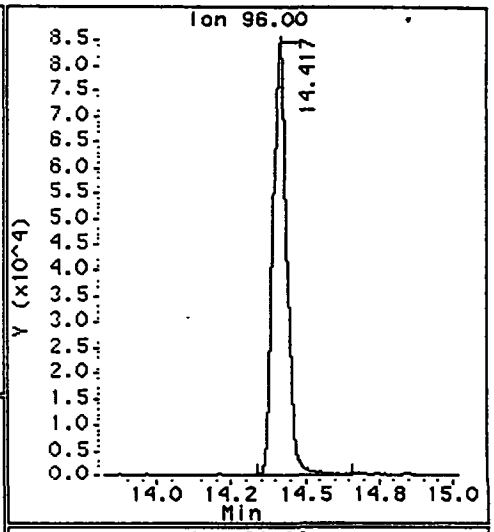
21 trans-1,2-Dichloroethene

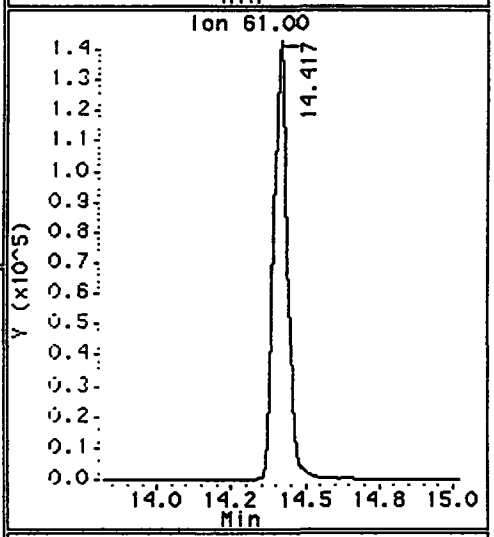


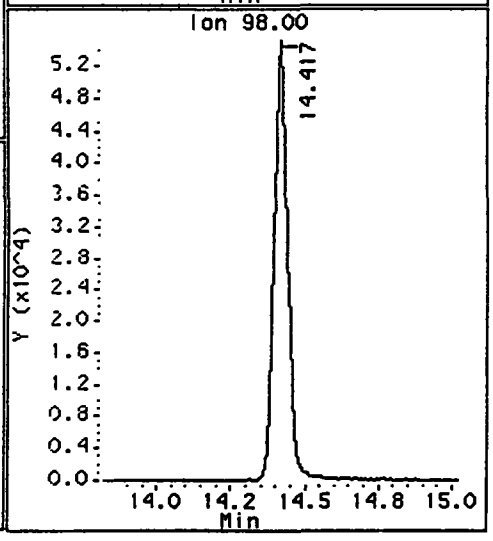






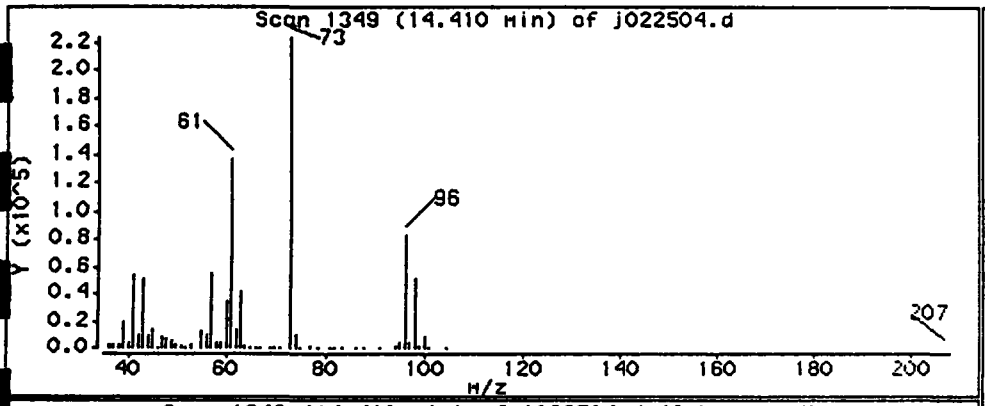


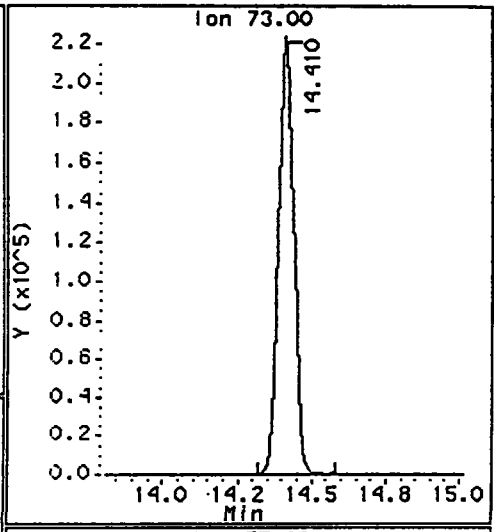


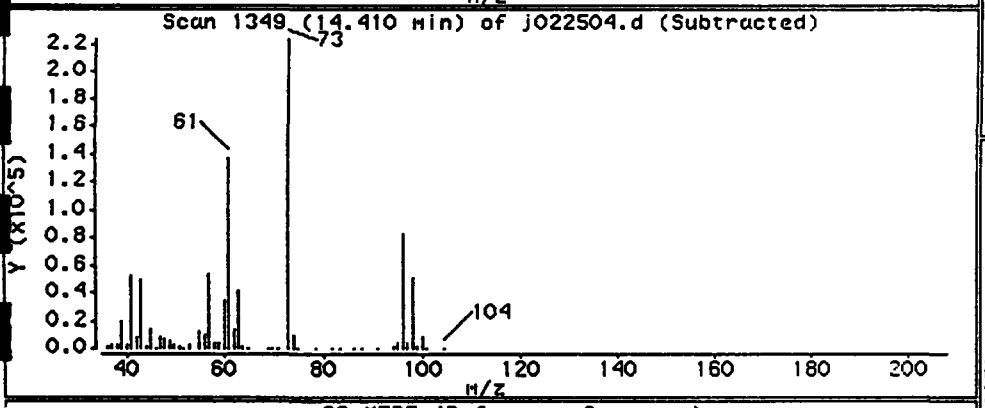


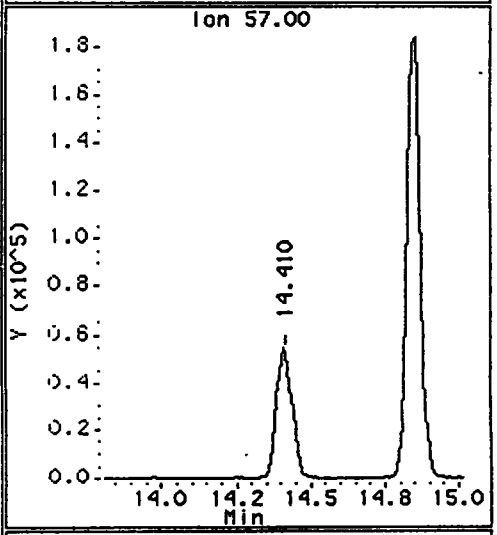
Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Client ID: Method Spike
Instrument: msdj.i
Sample Info: #296-71 T014 Std. 25mL (5ppbv)
Operator: MH
Column phase: RTx-624
Column diameter: 0.58

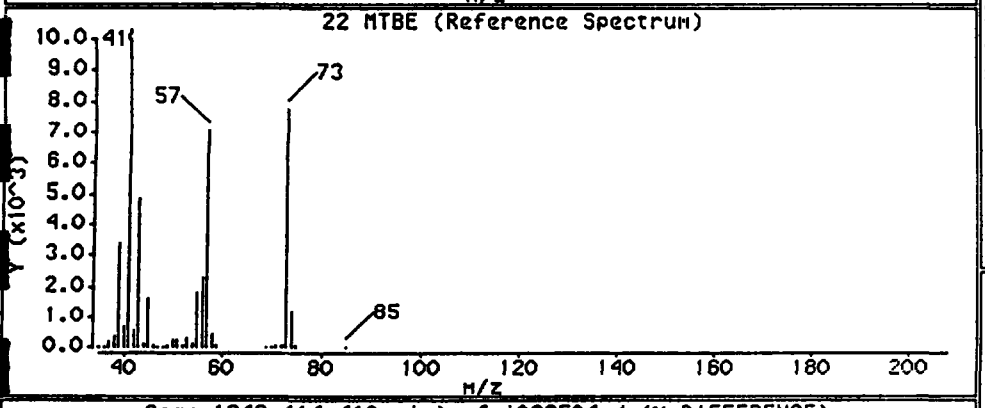
22 MTBE

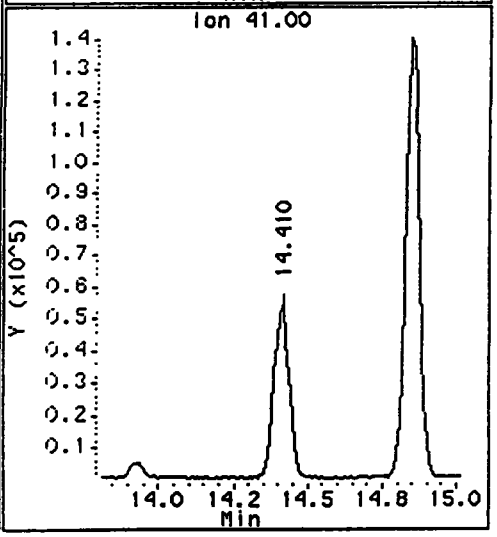


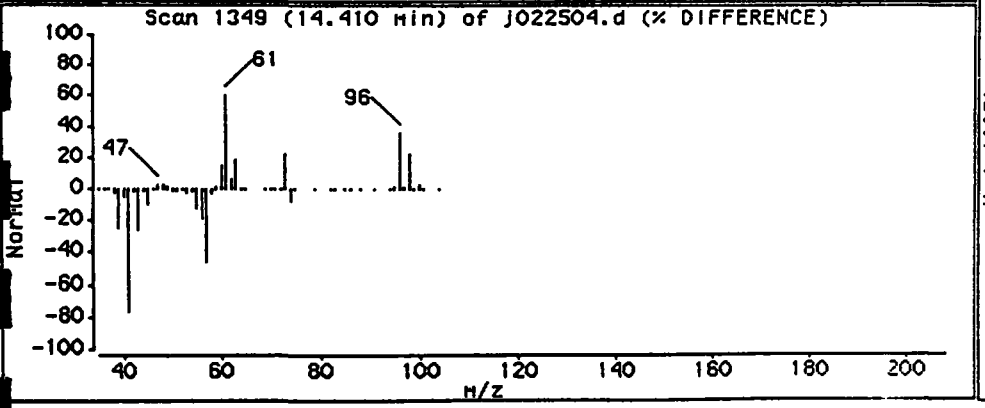












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

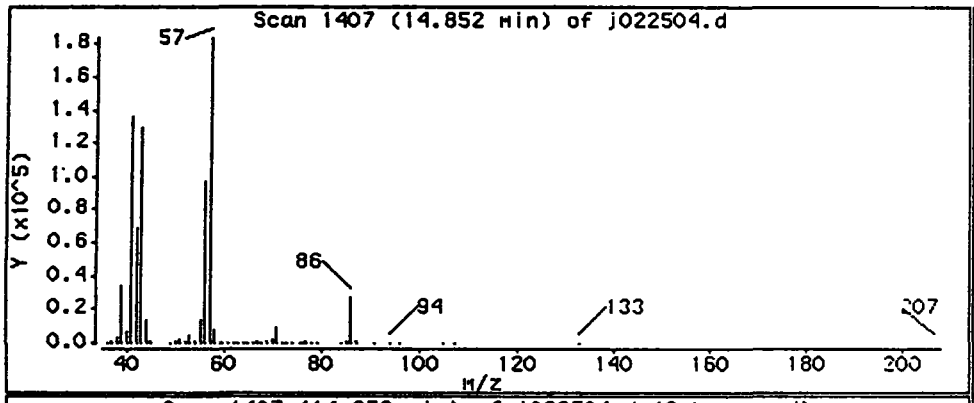
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

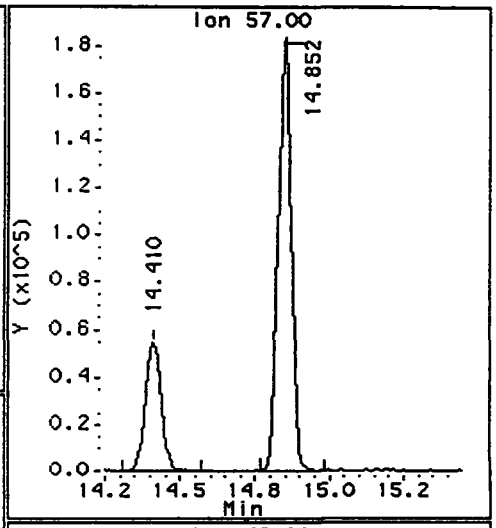
Operator: MH

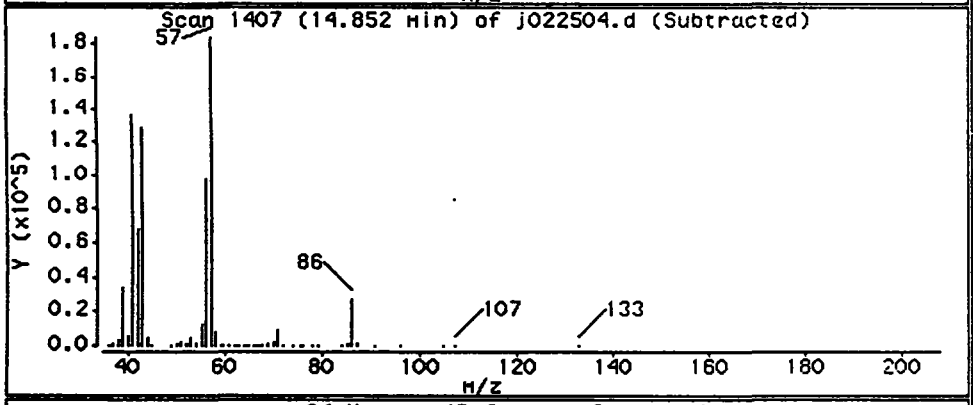
Column phase: RTx-624

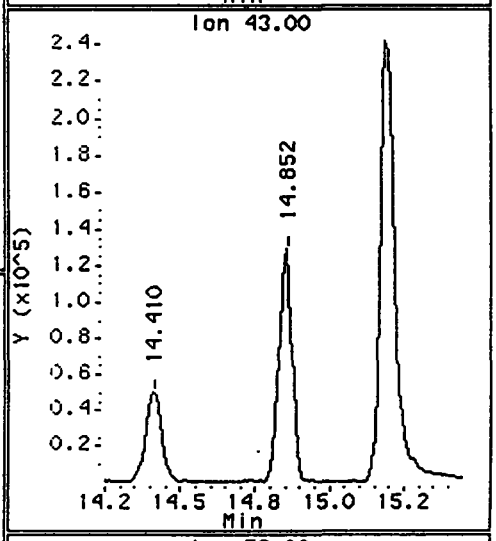
Column diameter: 0.58

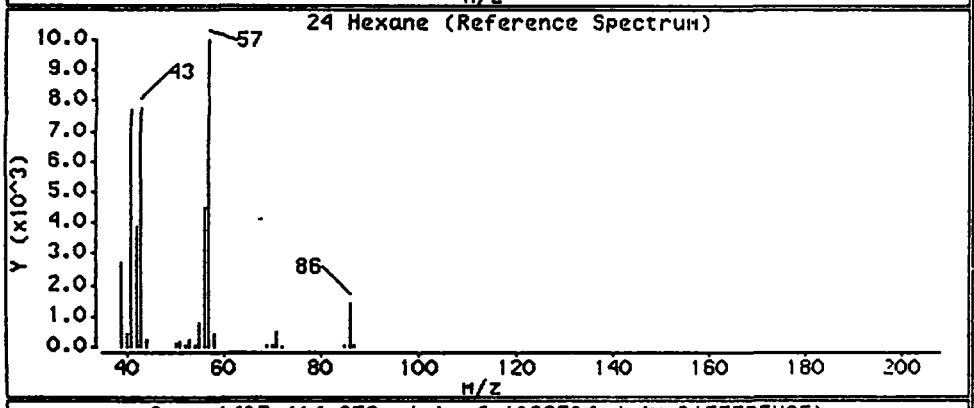
24 Hexane

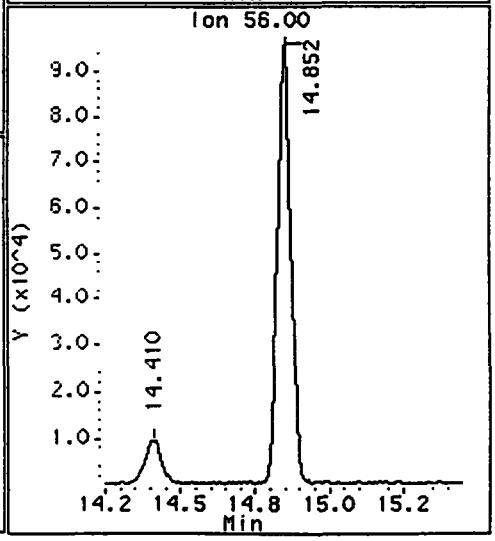


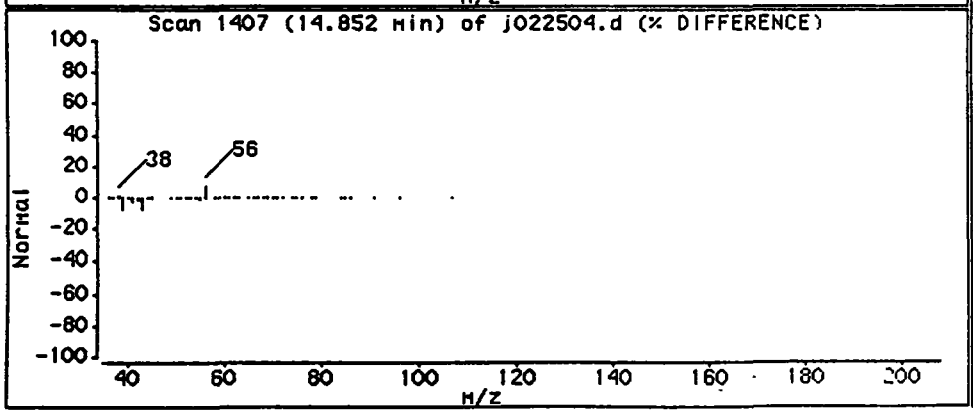






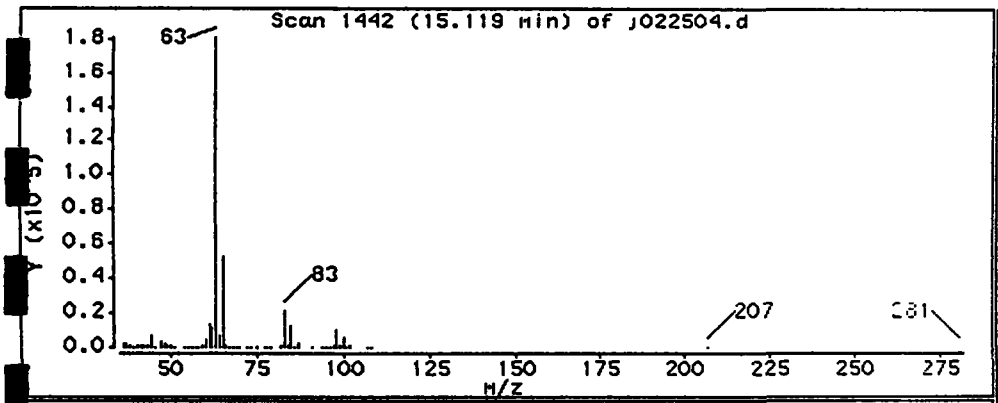


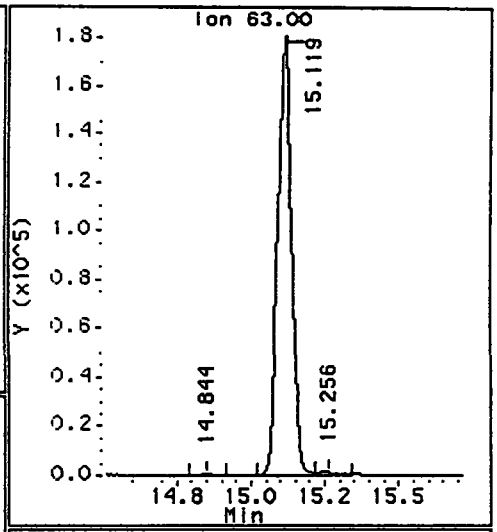


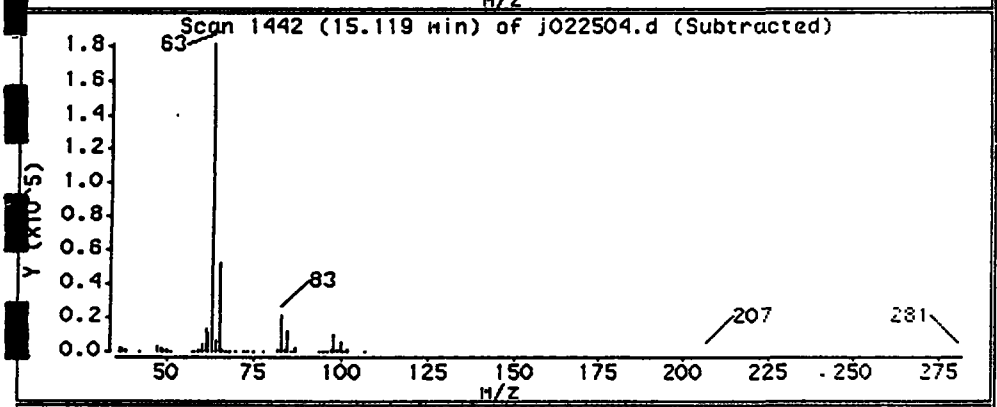


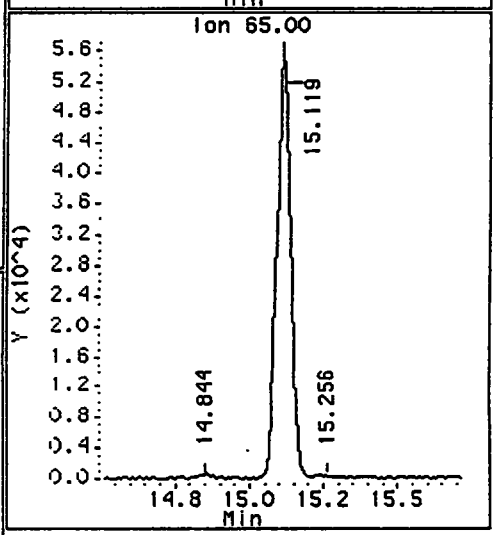
Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Client ID: Method Spike
Instrument: msdj.i
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)
Operator: MH
Column phase: RTx-624
Column diameter: 0.58

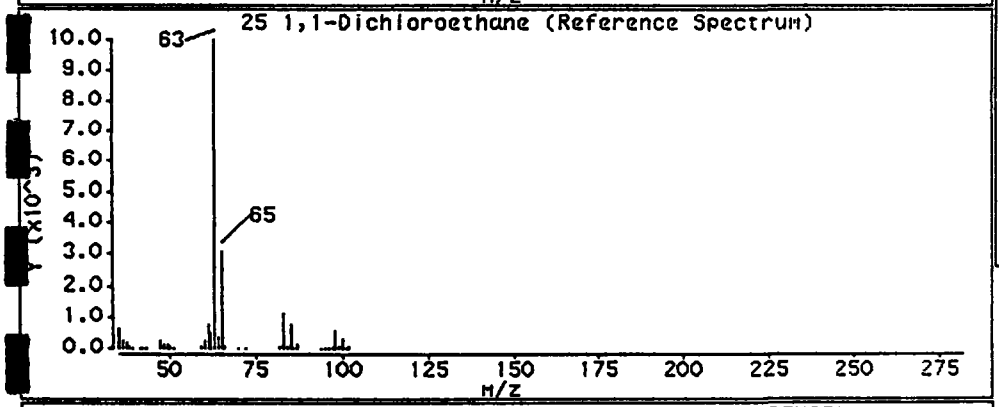
25 1,1-Dichloroethane

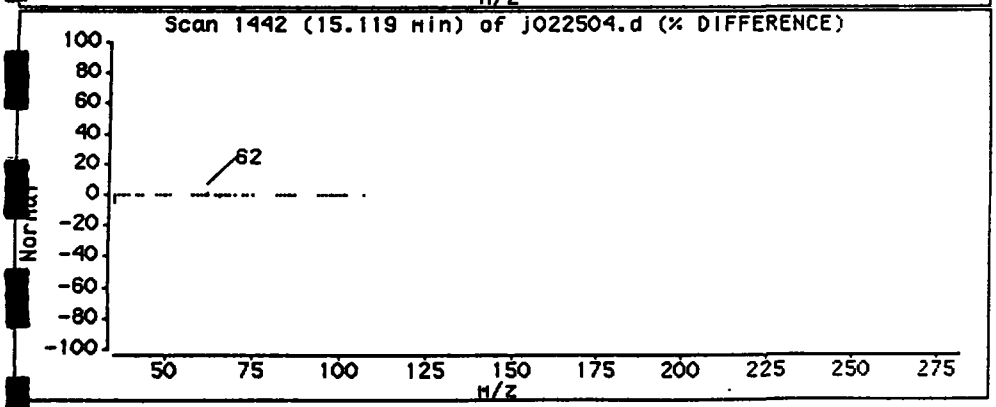












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

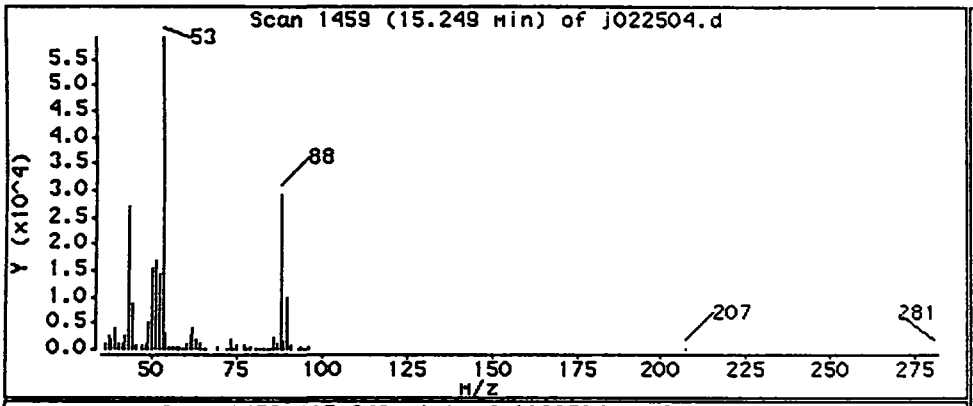
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

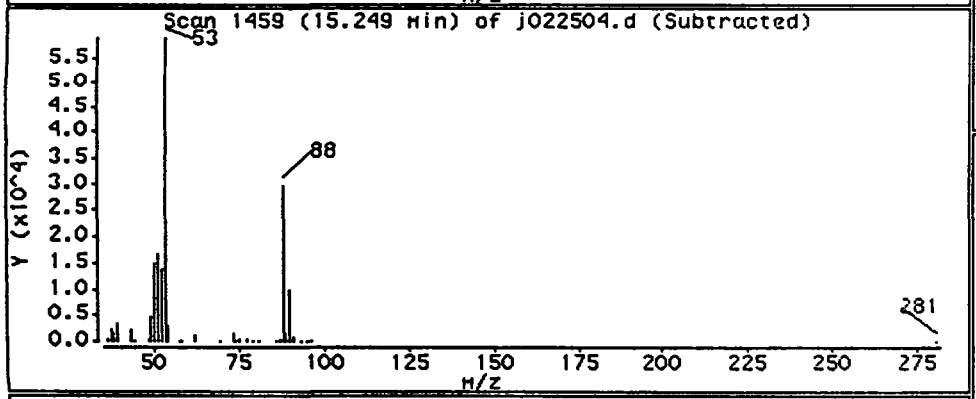
Operator: MH

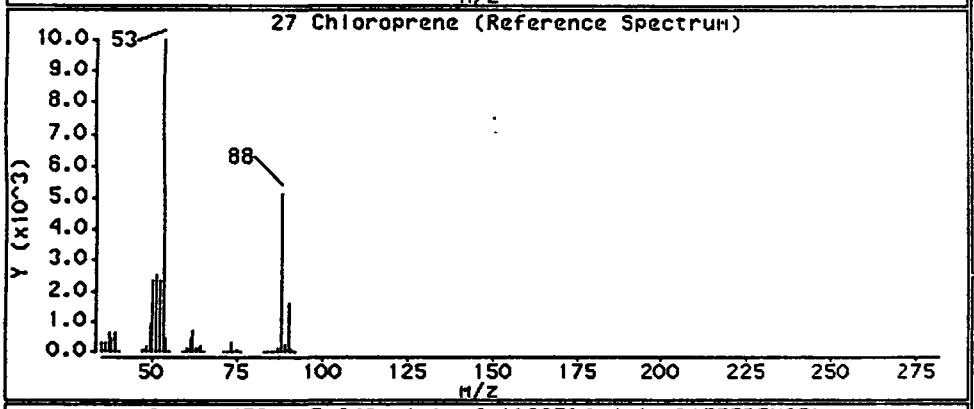
Column phase: RTx-624

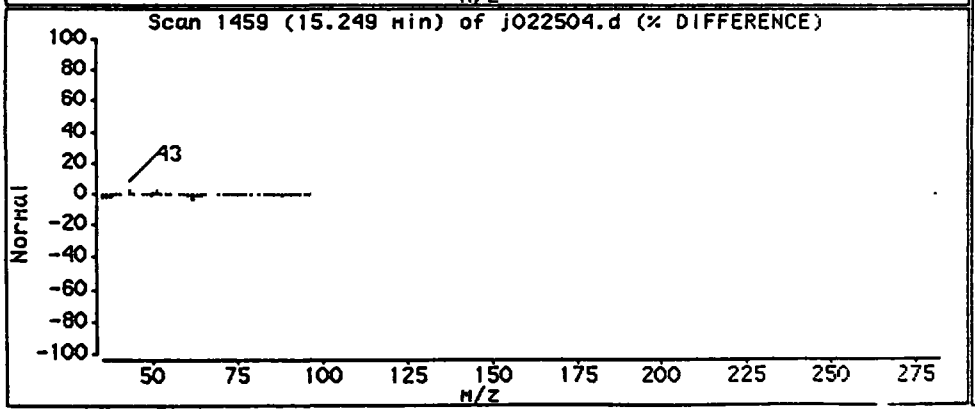
Column diameter: 0.58

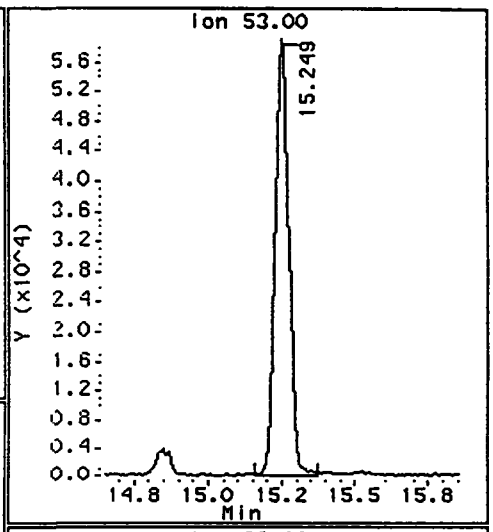
27 Chloroprene

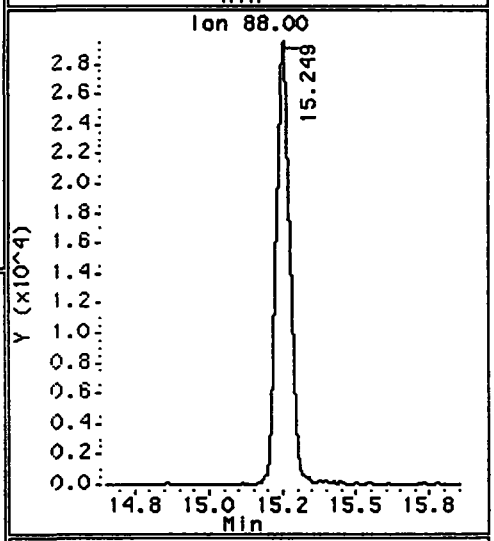


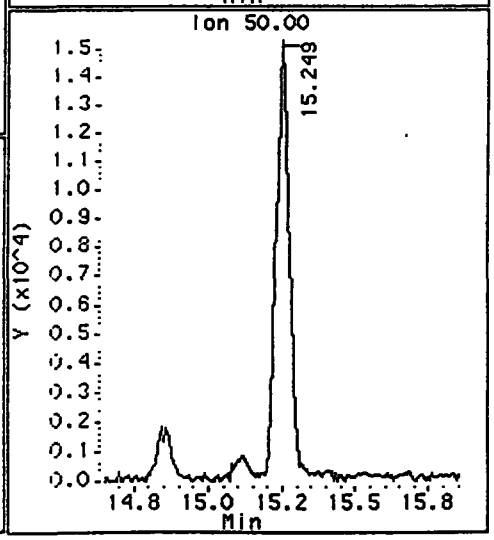












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

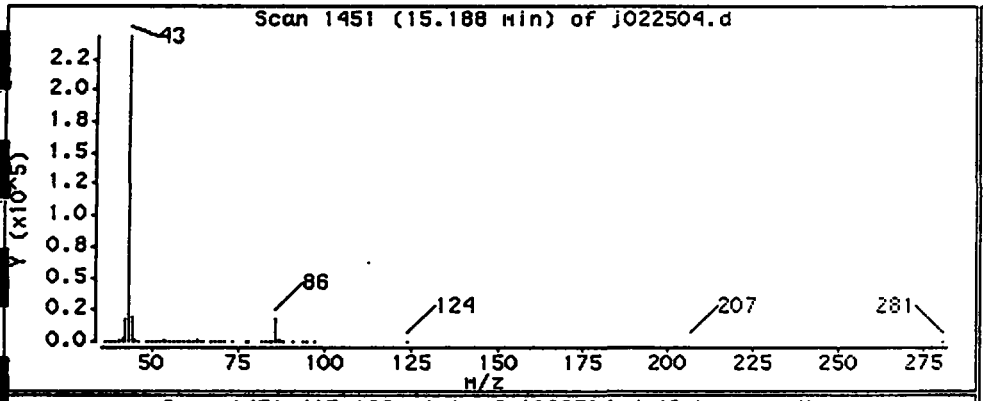
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

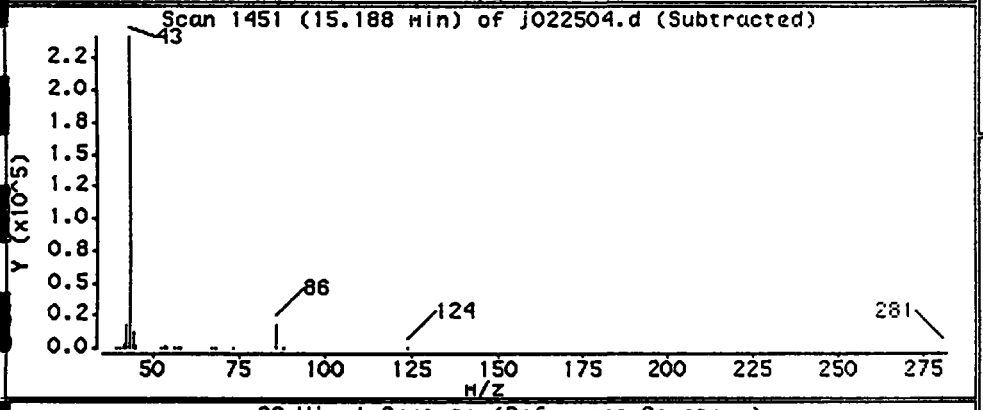
Operator: MH

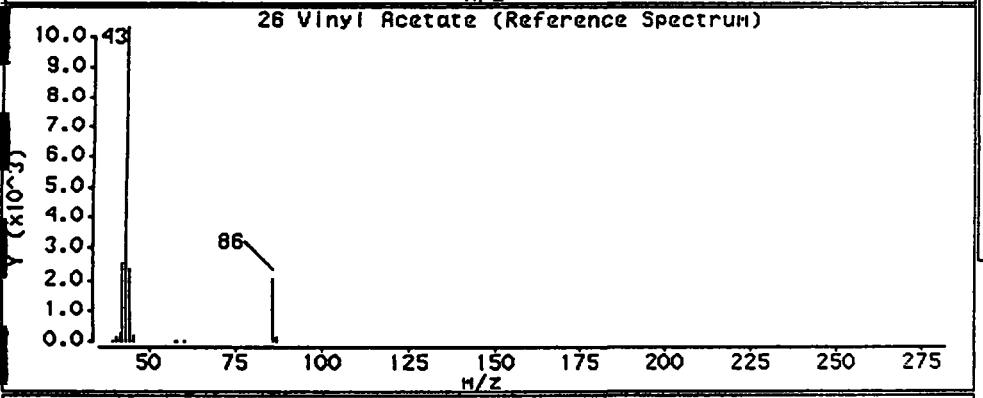
Column phase: RTx-624

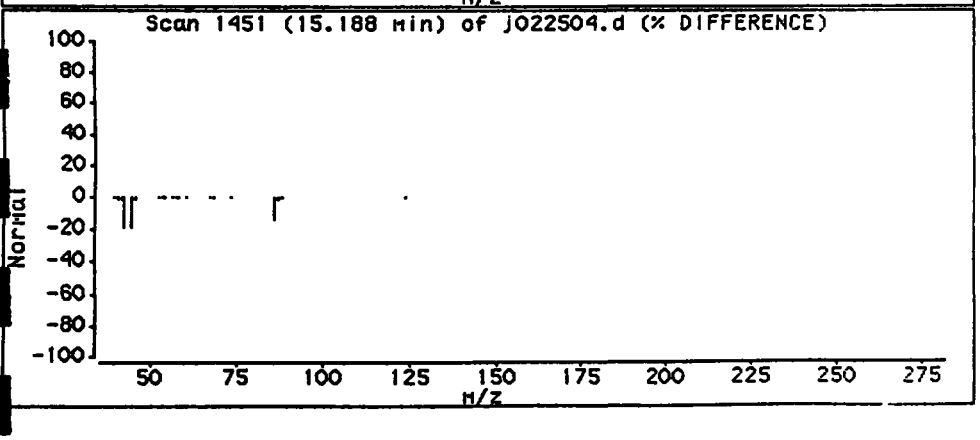
Column diameter: 0.58

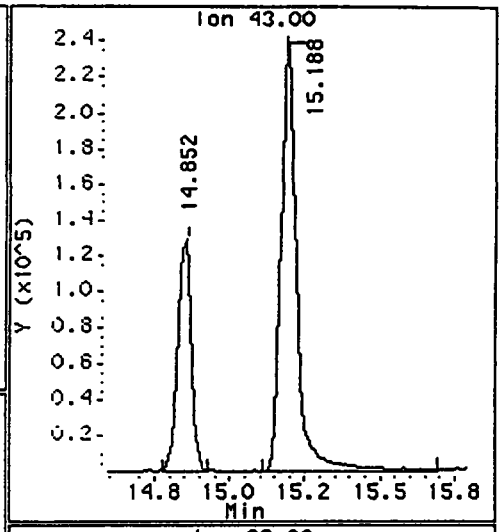
26 Vinyl Acetate

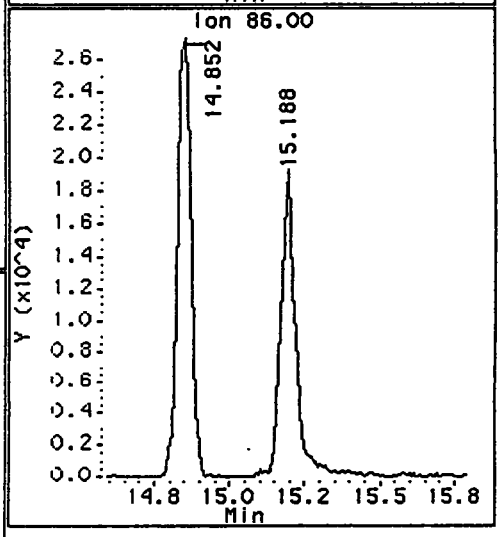






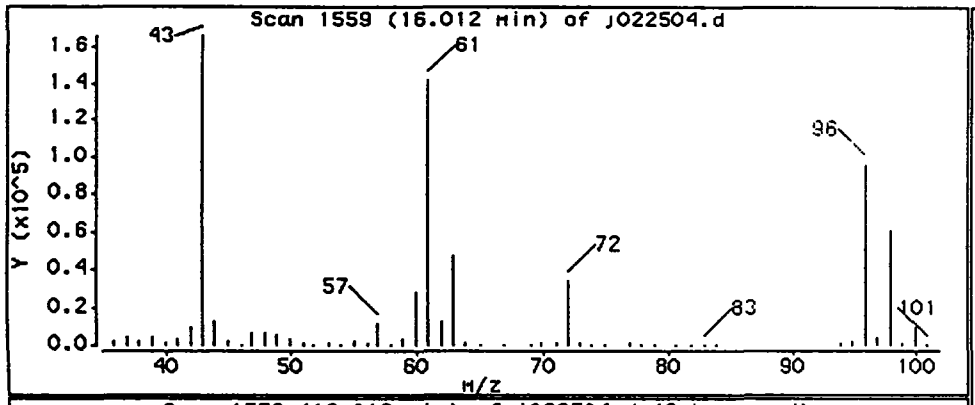


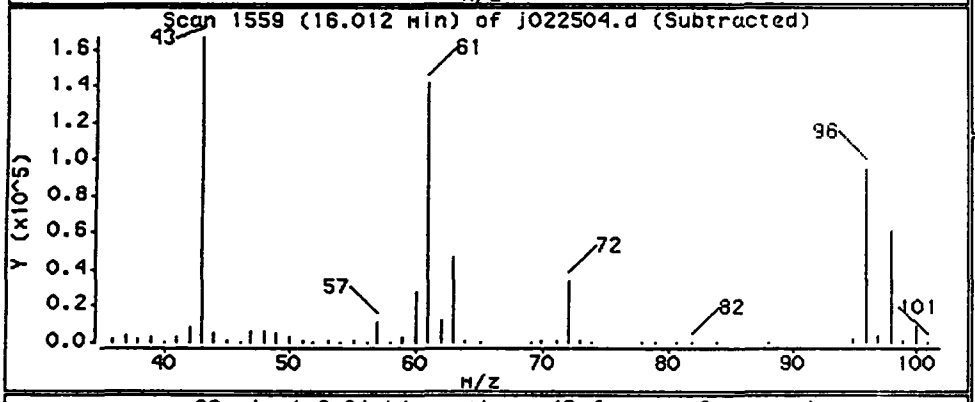


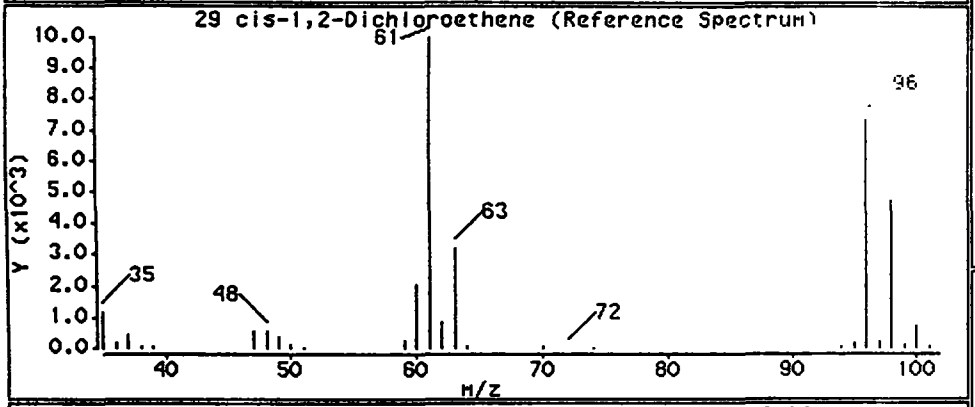


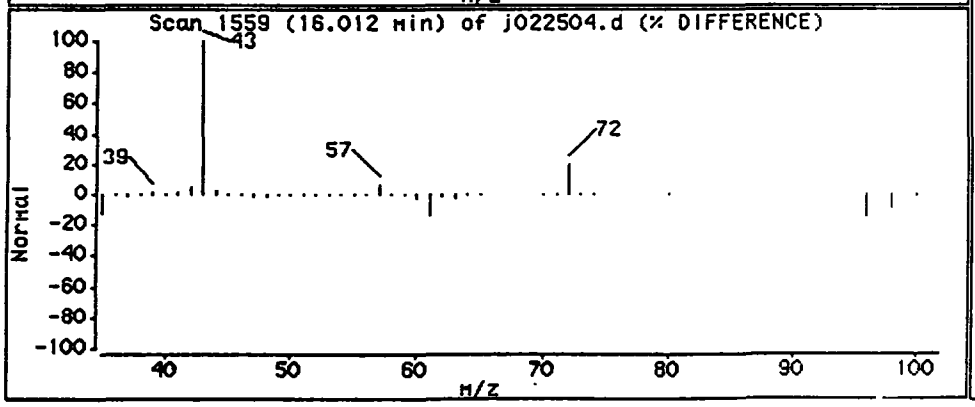
Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Client ID: Method Spike
Instrument: msdj.i
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)
Operator: MH
Column phase: RTx-624
Column diameter: 0.58

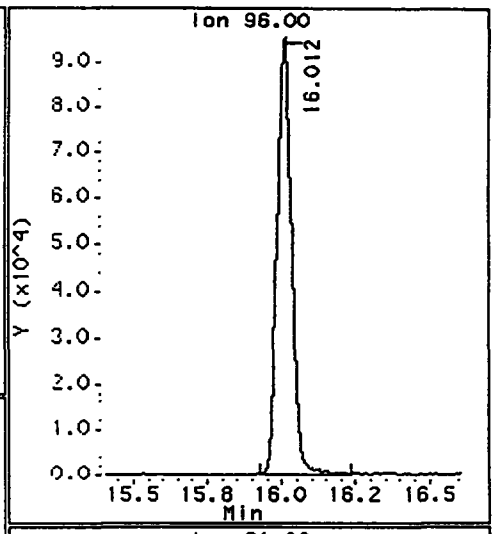
29 cis-1,2-Dichloroethene

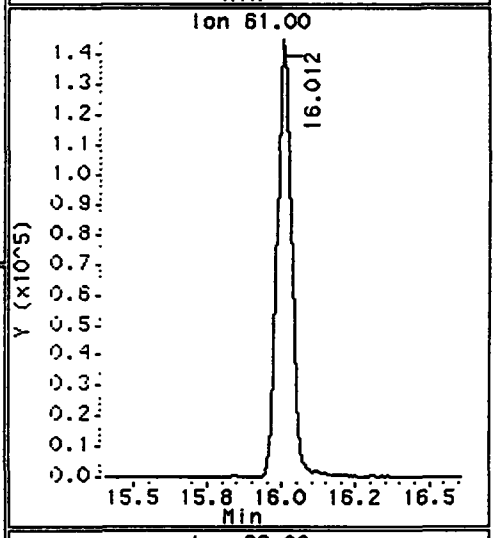


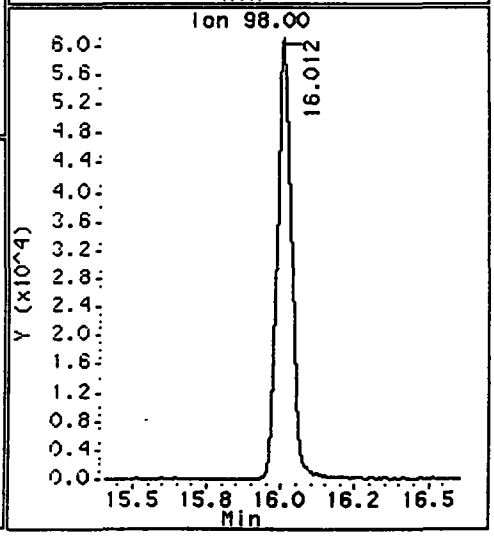












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

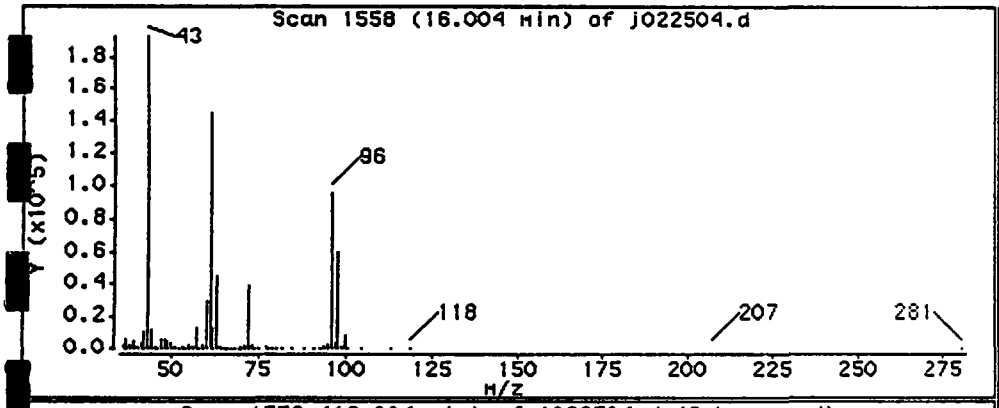
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

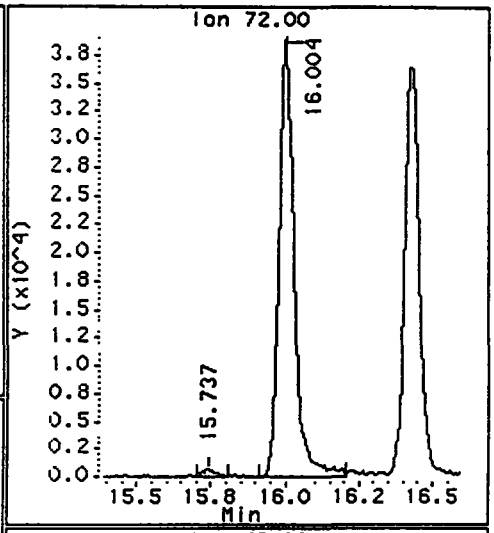
Operator: MH

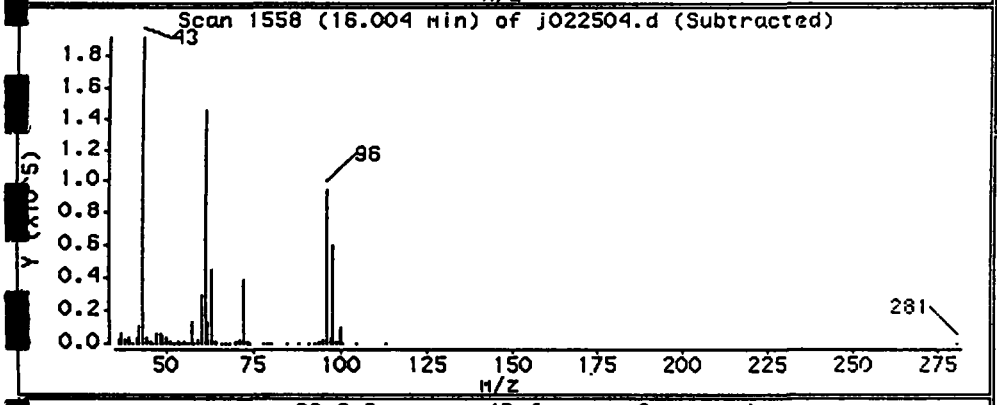
Column phase: RTx-624

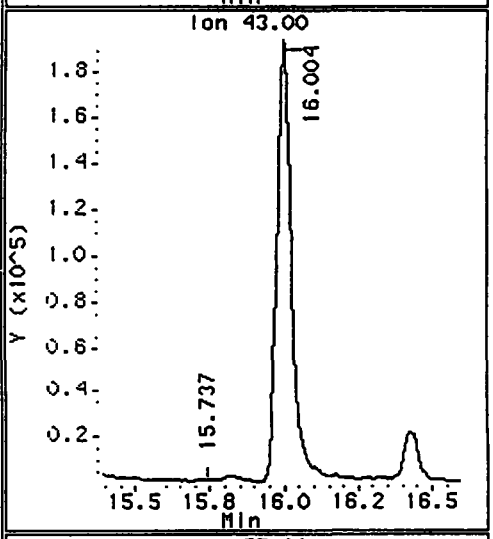
Column diameter: 0.58

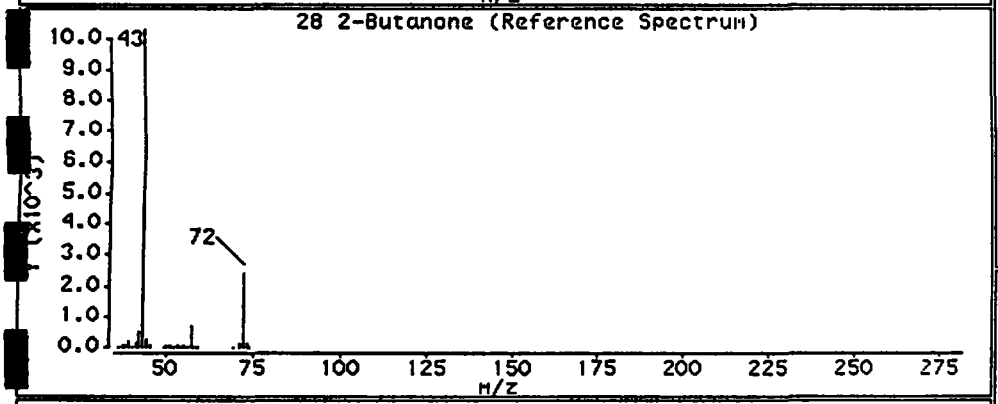
28 2-Butanone

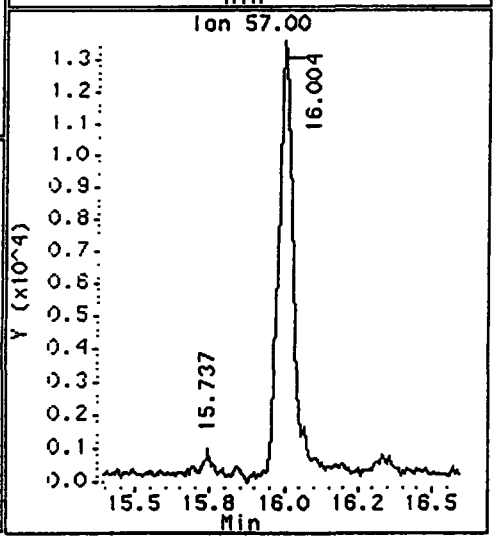


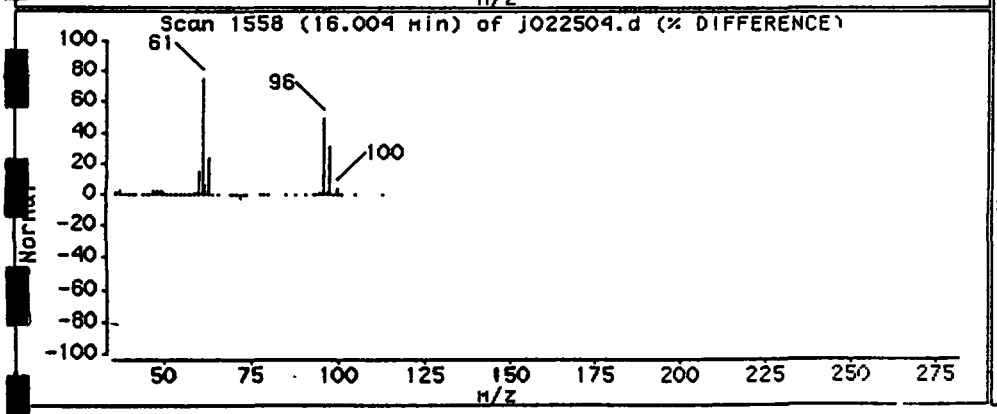












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

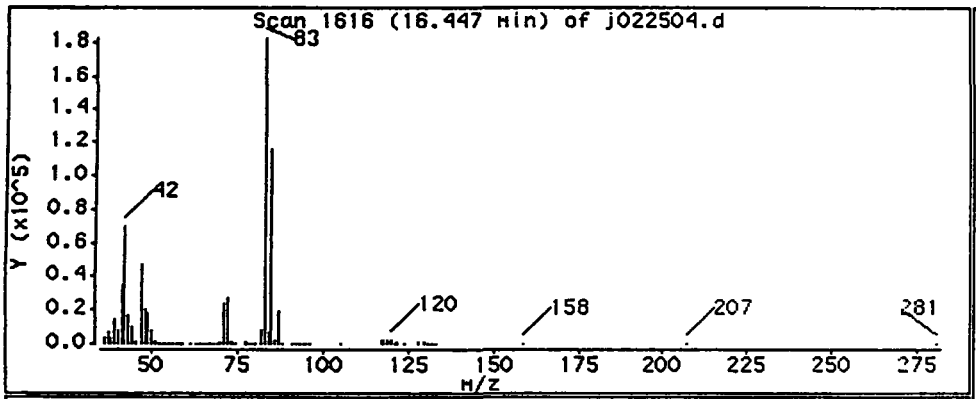
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

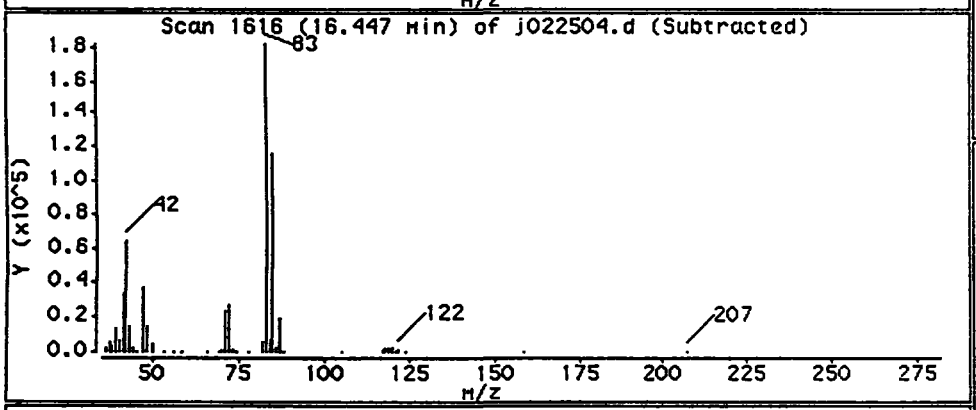
Operator: MH

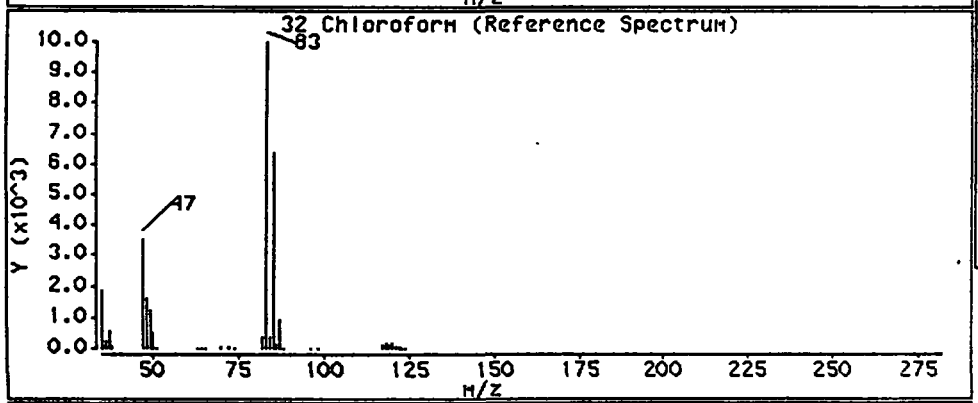
Column phase: RTx-624

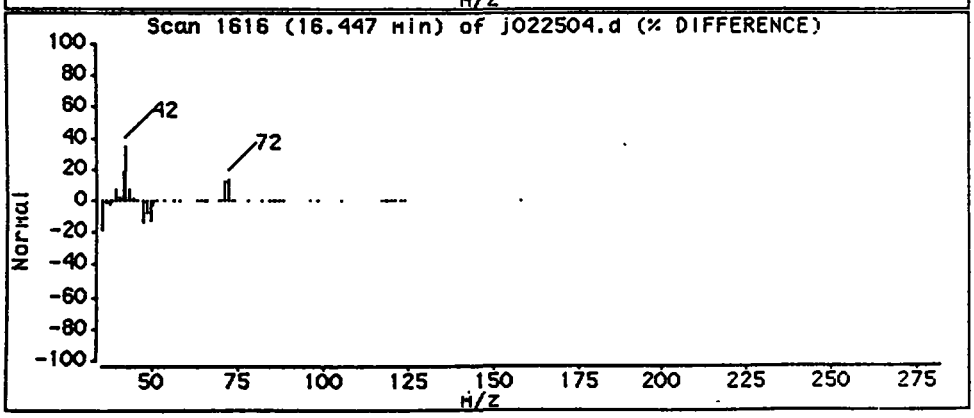
Column diameter: 0.58

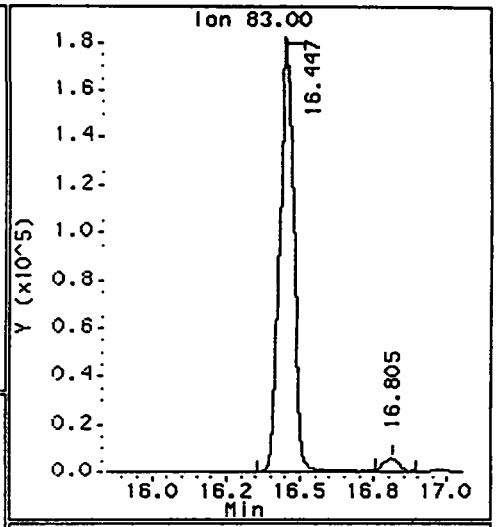
32 Chloroform

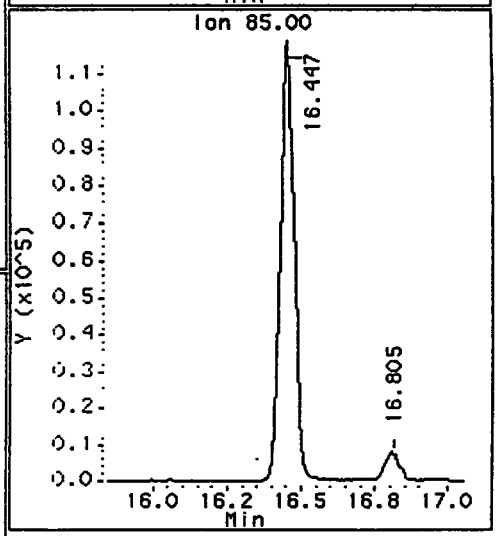












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

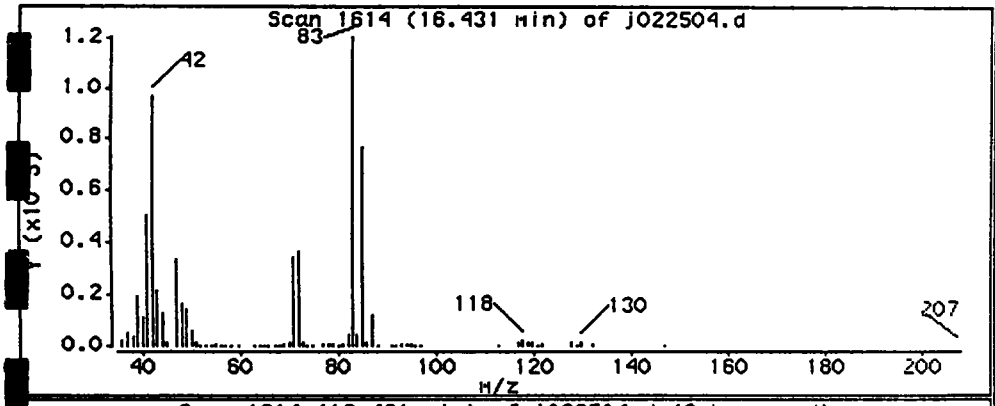
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

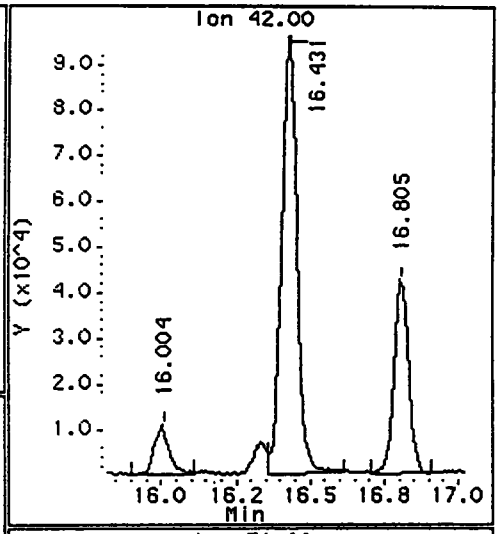
Operator: MH

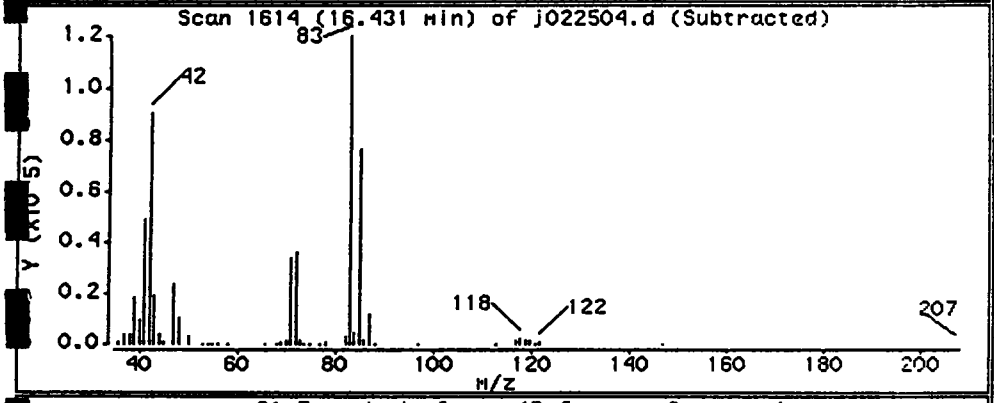
Column phase: RTx-624

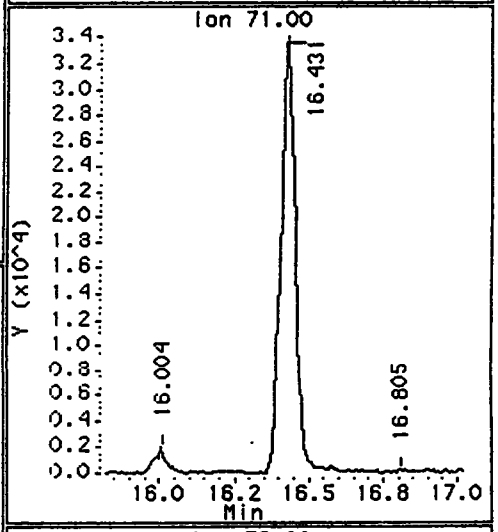
Column diameter: 0.58

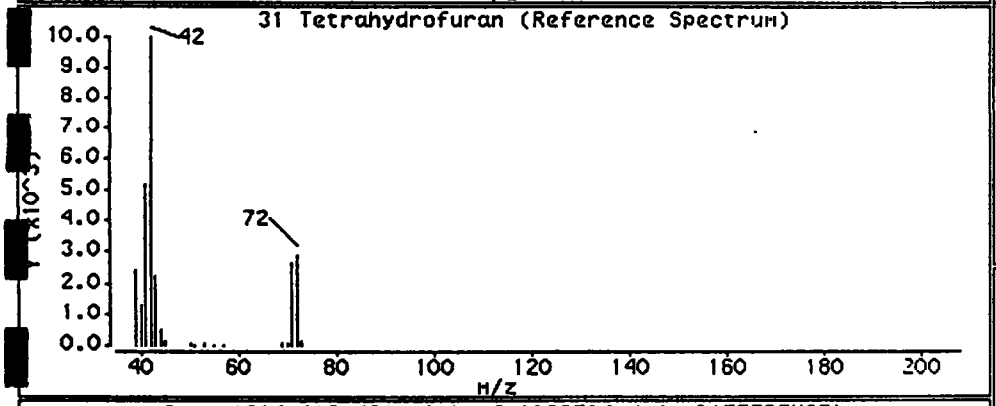
31 Tetrahydrofuran

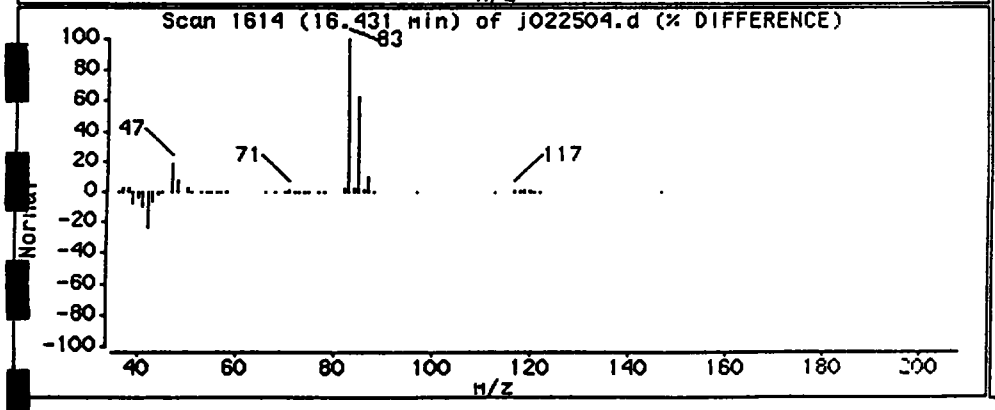


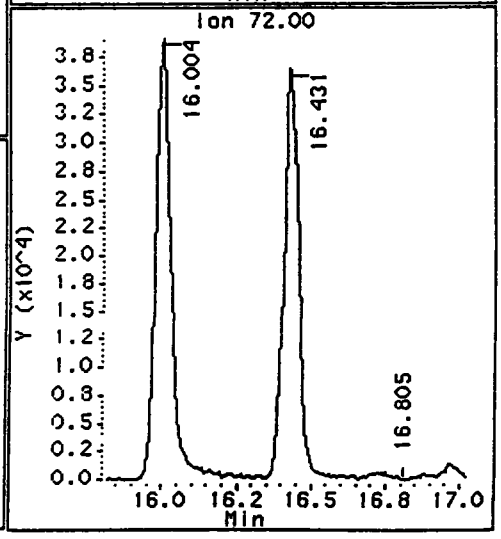












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

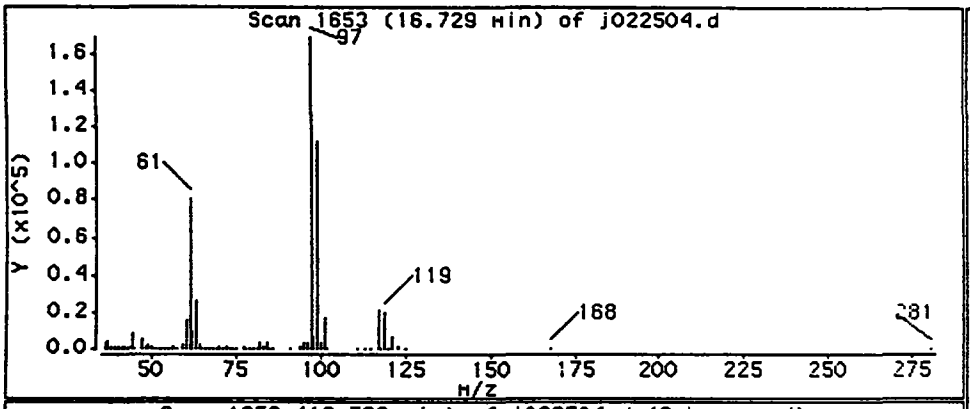
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

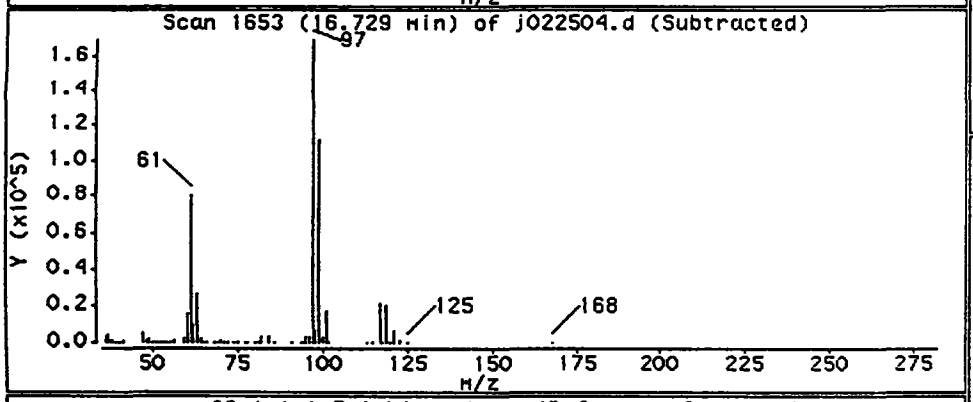
Operator: MH

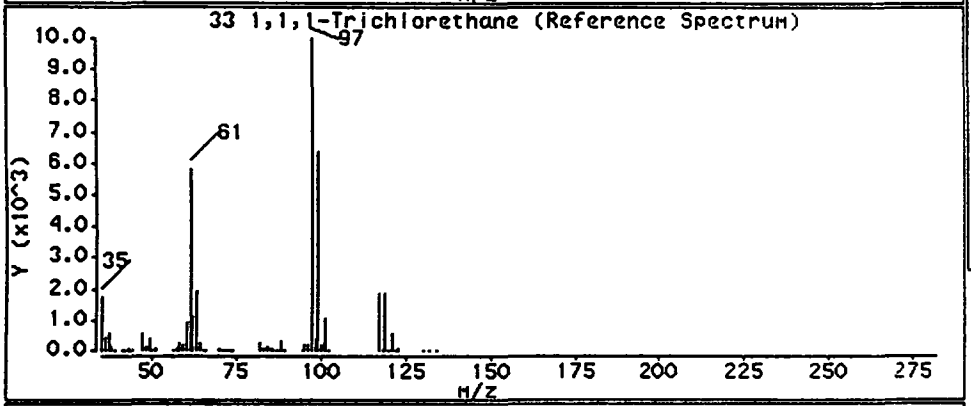
Column phase: RTx-624

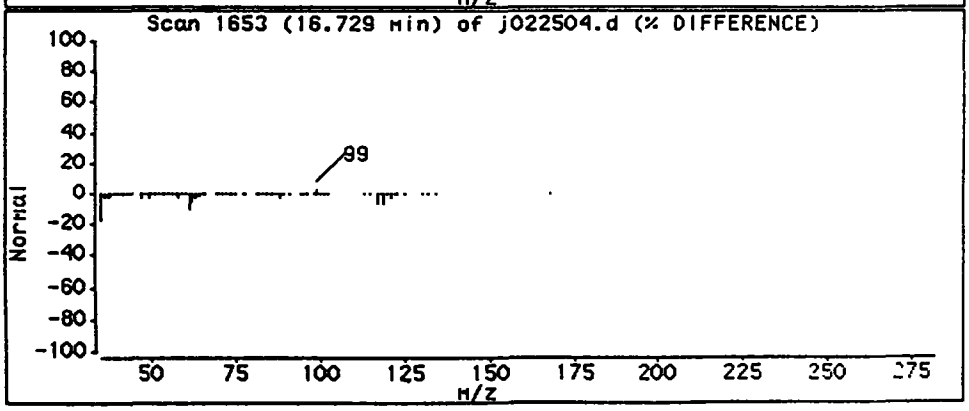
Column diameter: 0.58

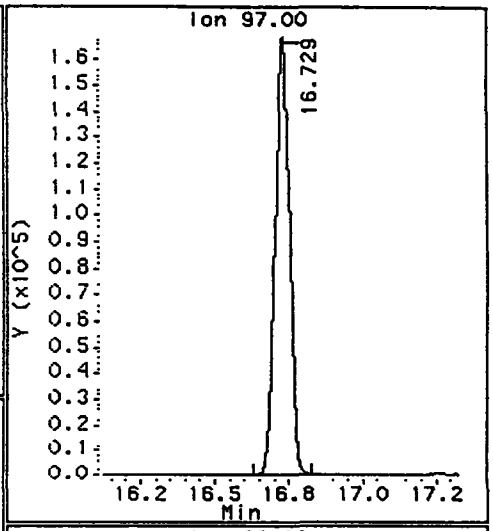
33 1,1,1-Trichloroethane

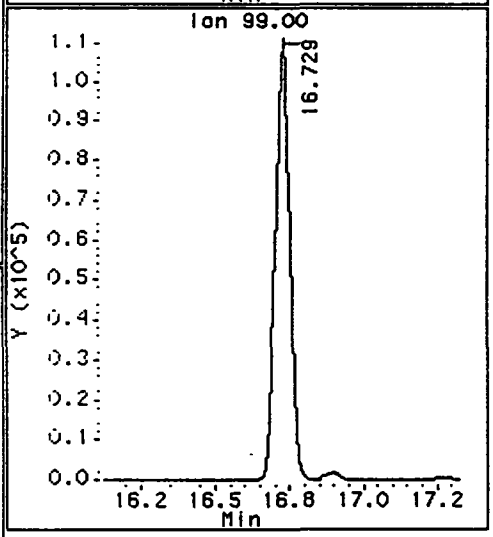












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

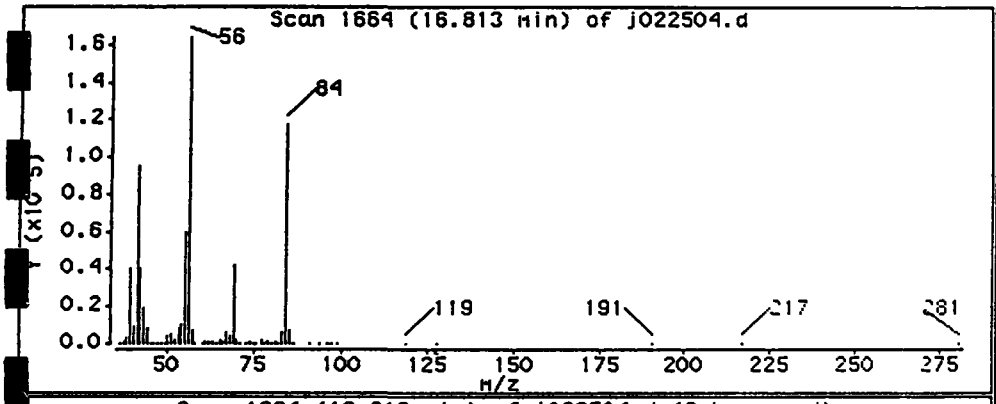
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

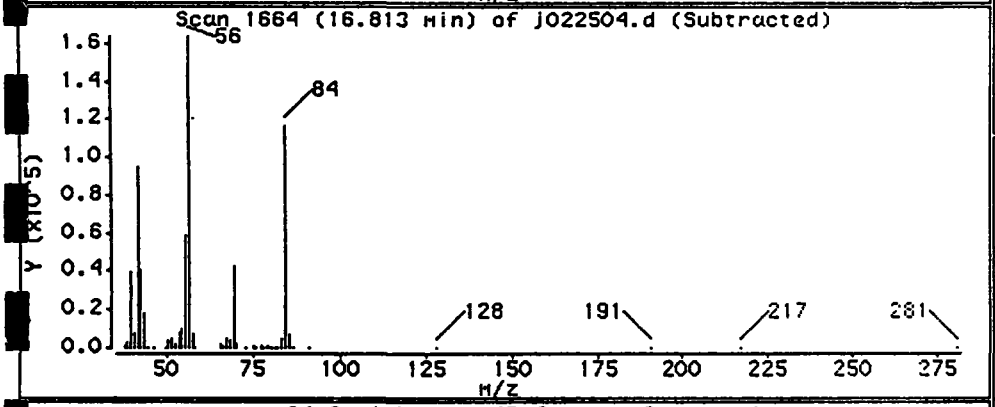
Operator: MH

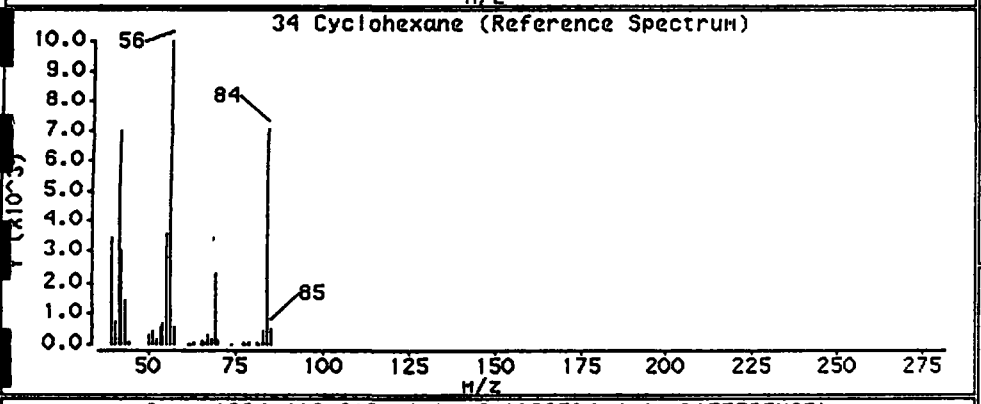
Column phase: RTx-624

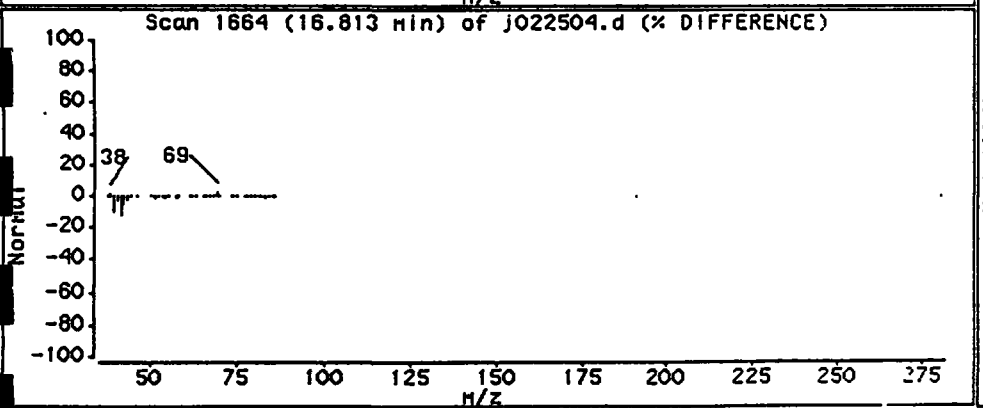
Column diameter: 0.58

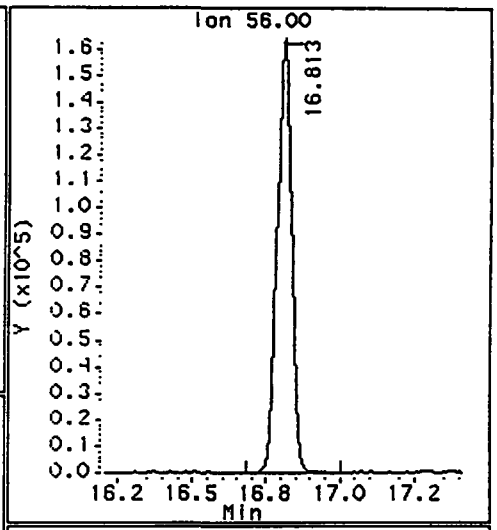
34 Cyclohexane

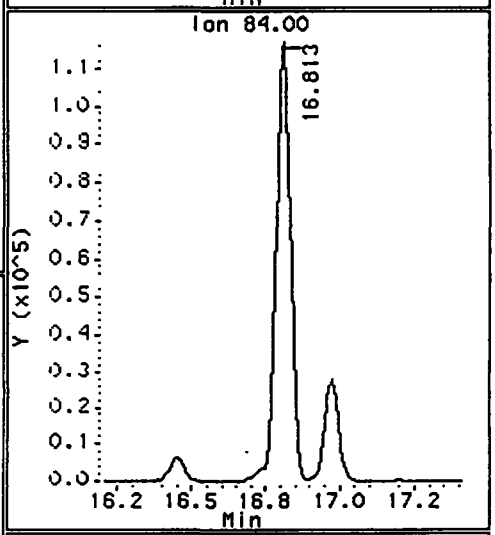


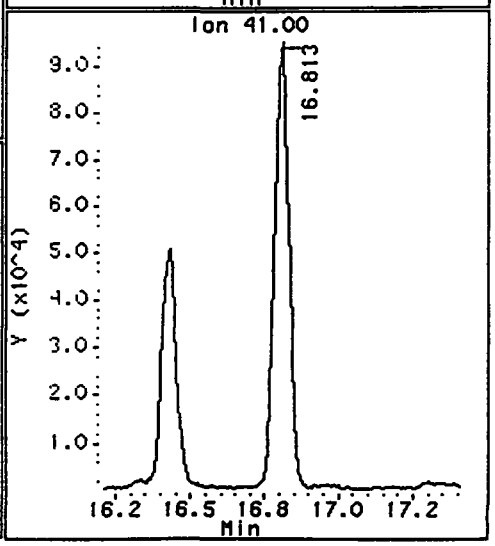












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

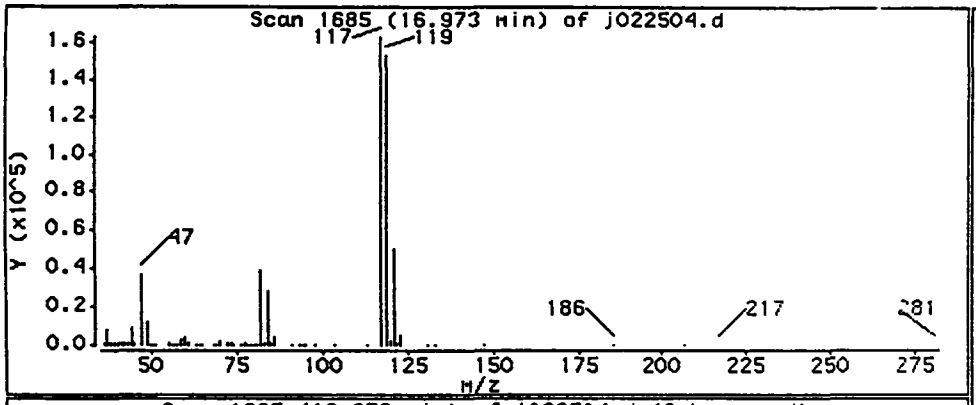
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

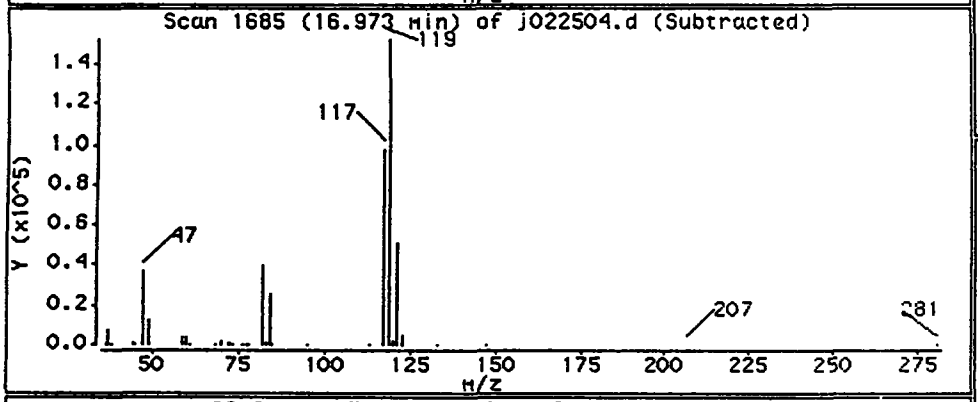
Operator: MH

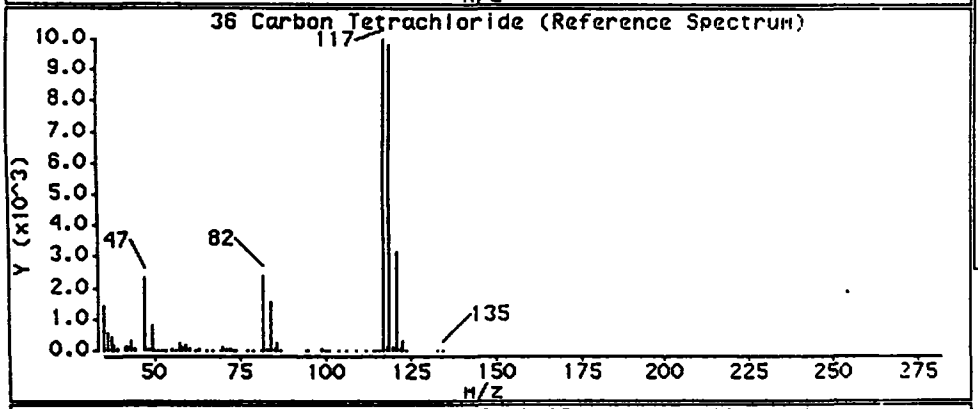
Column phase: RTx-624

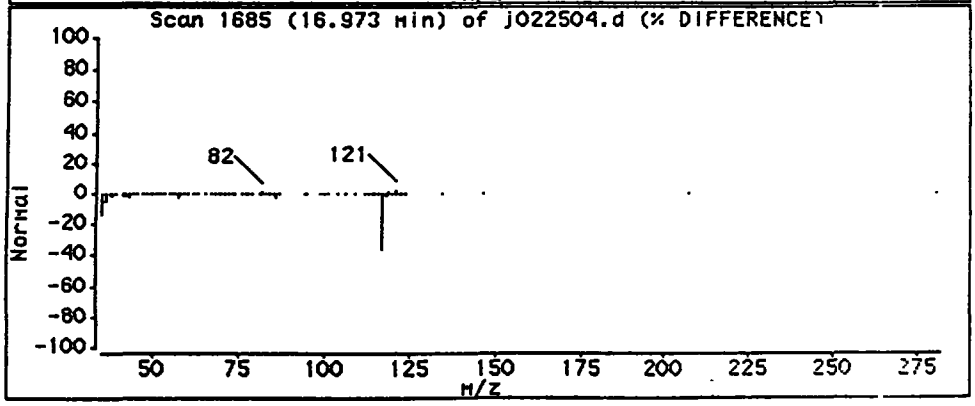
Column diameter: 0.58

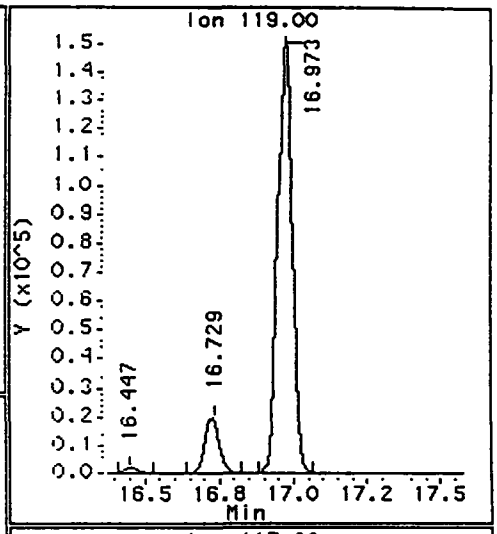
36 Carbon Tetrachloride

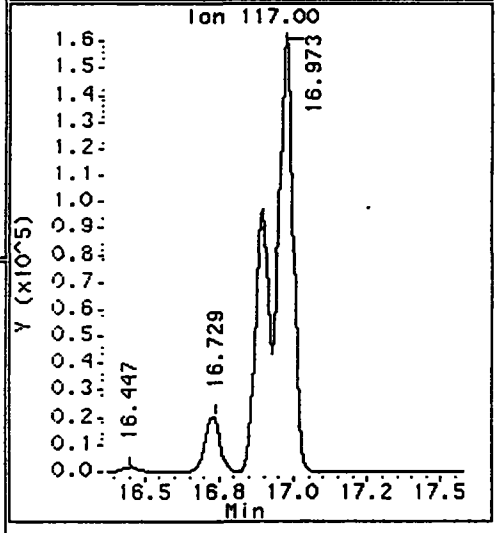












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

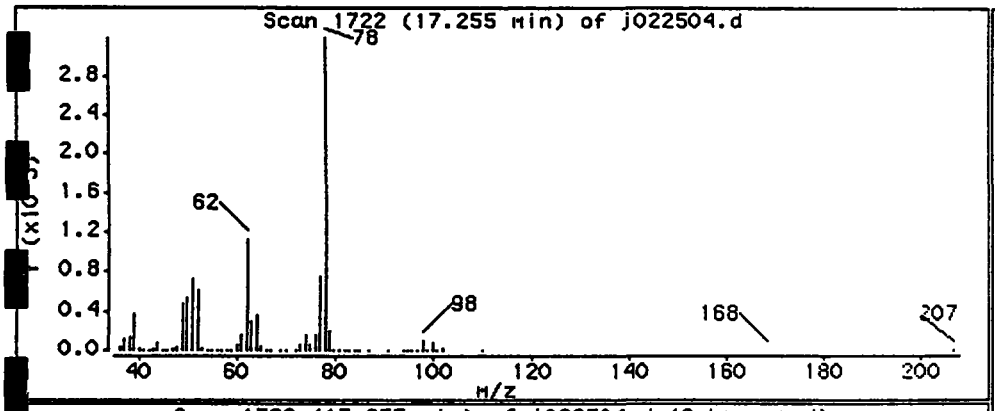
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

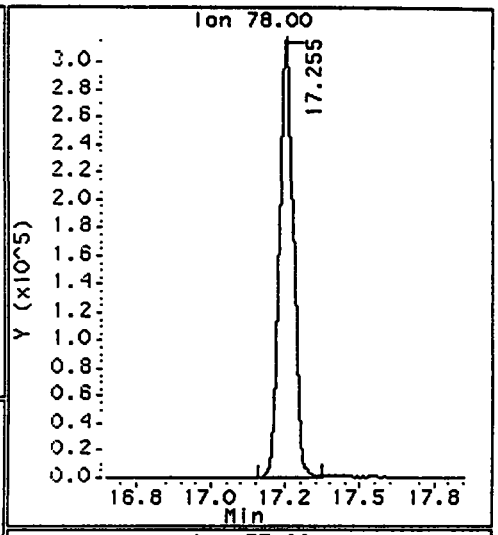
Operator: MH

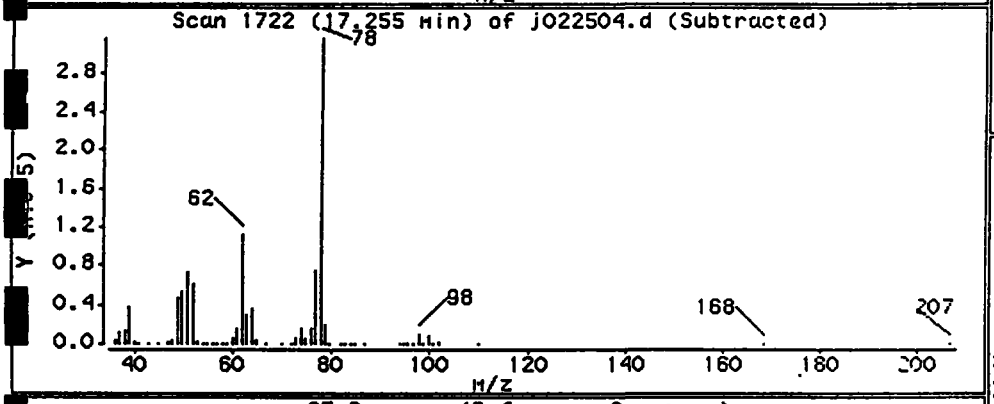
Column phase: RTx-624

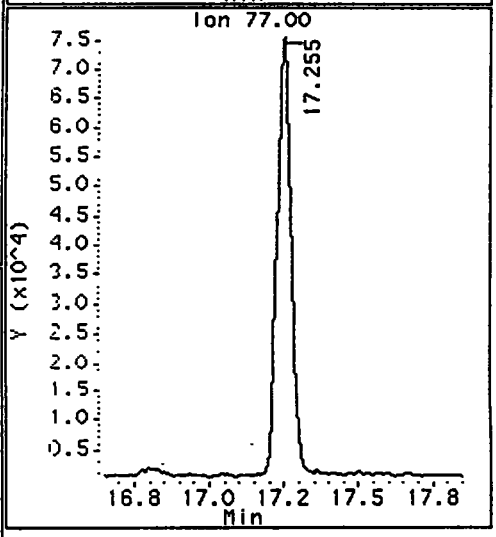
Column diameter: 0.58

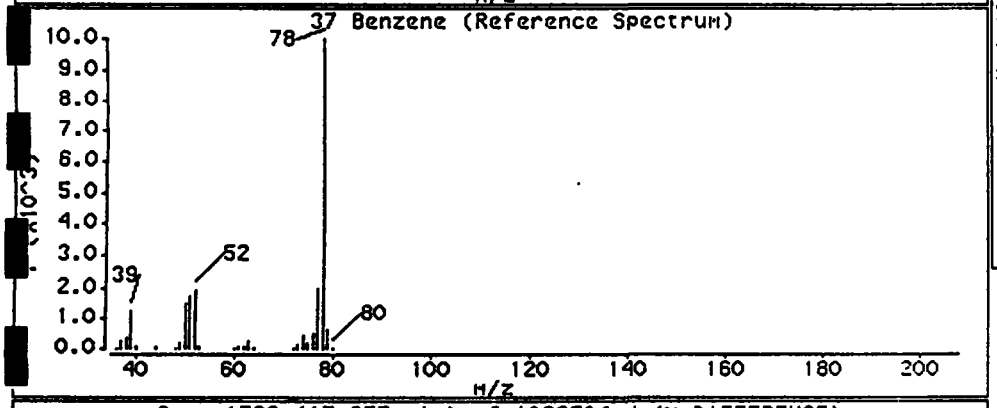
37 Benzene

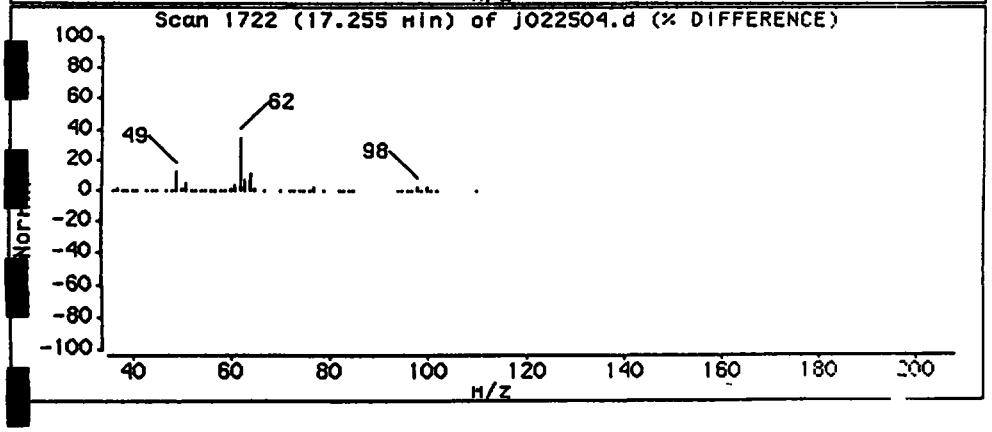












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

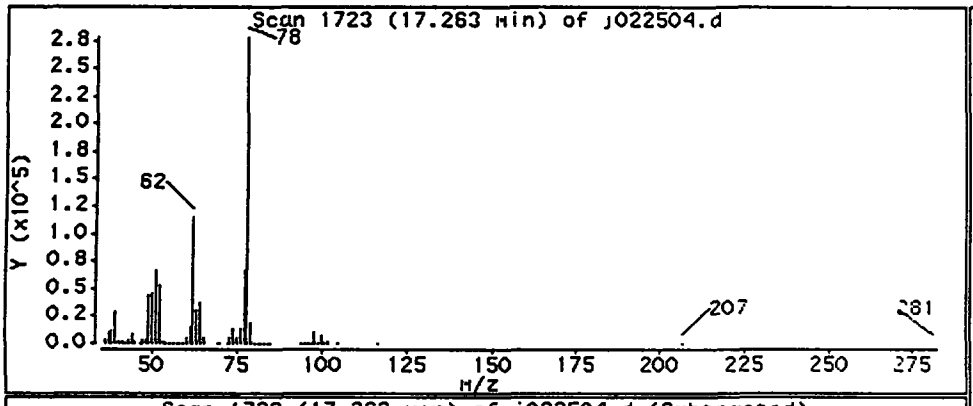
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

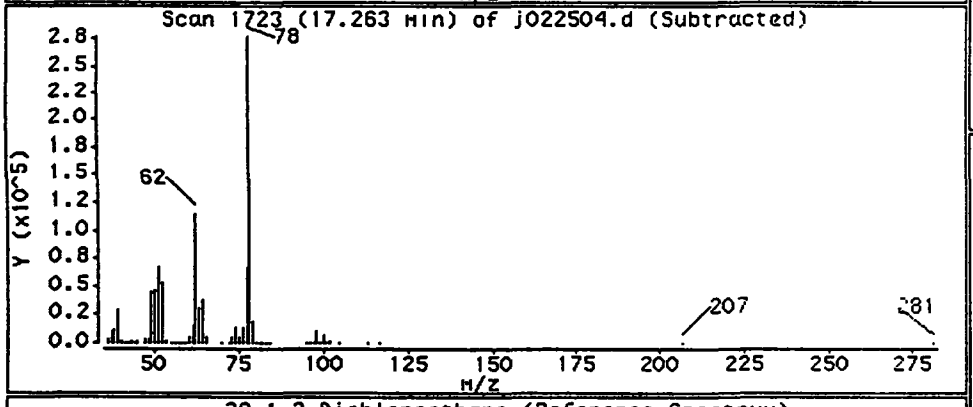
Operator: MH

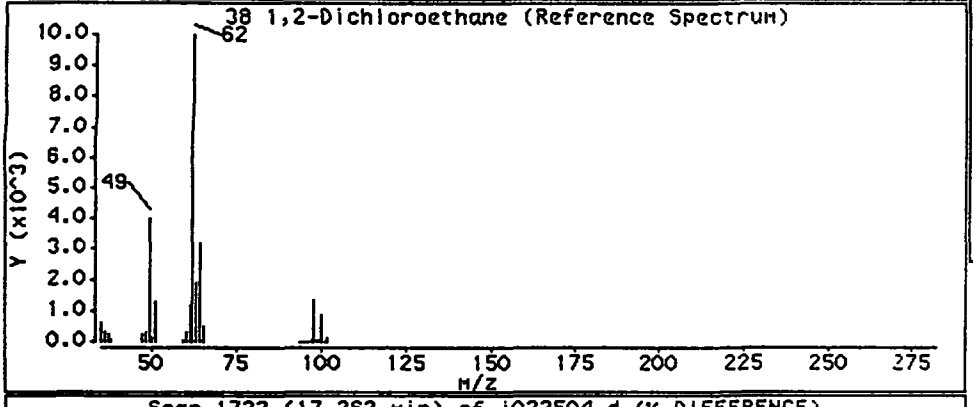
Column phase: RTx-624

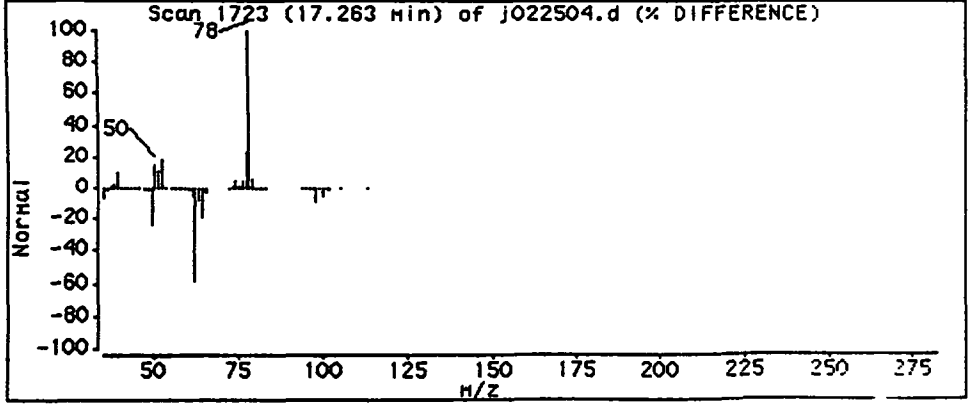
Column diameter: 0.58

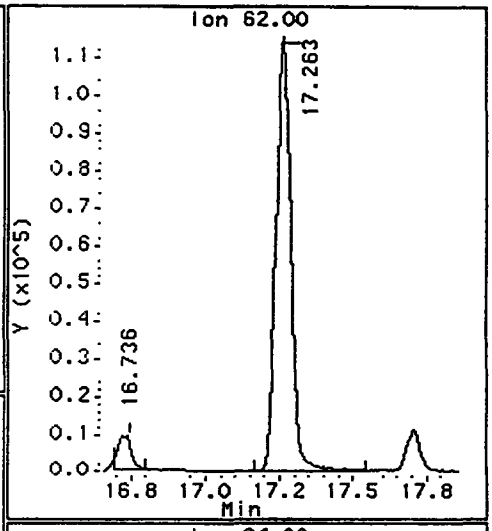
38 1,2-Dichloroethane

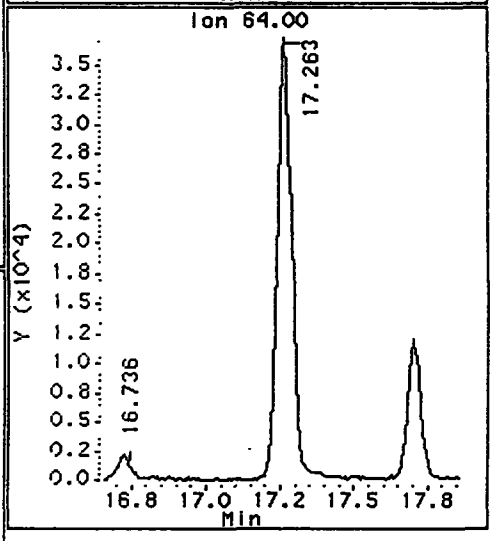












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

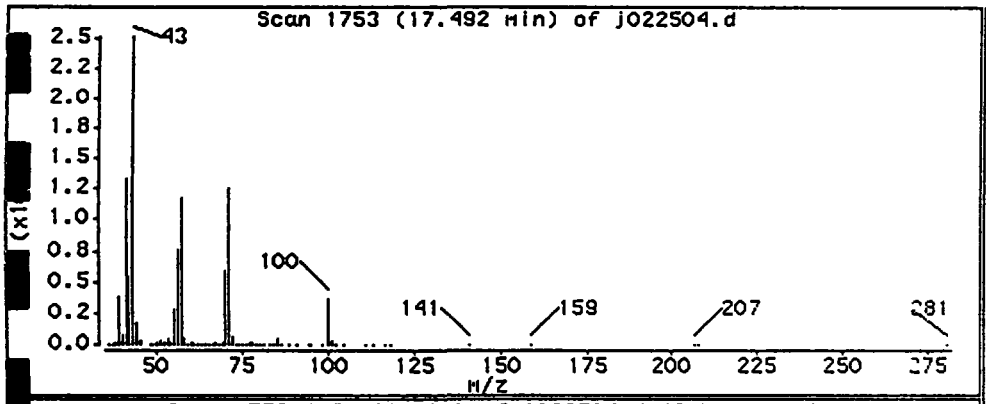
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

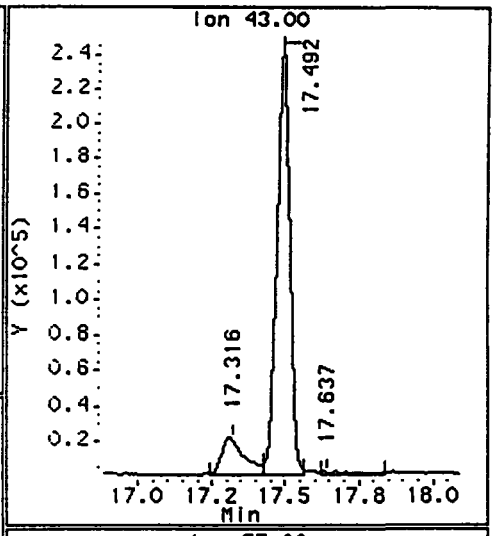
Operator: MH

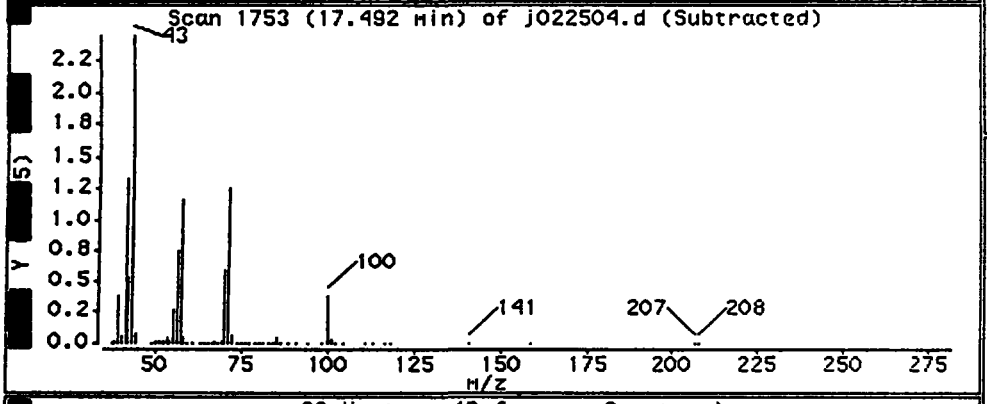
Column phase: RTx-624

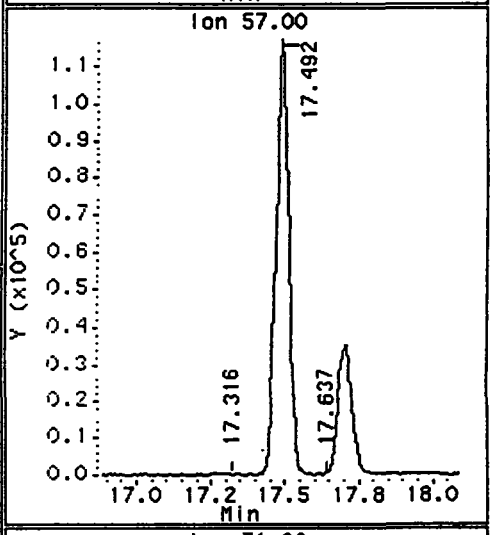
Column diameter: 0.58

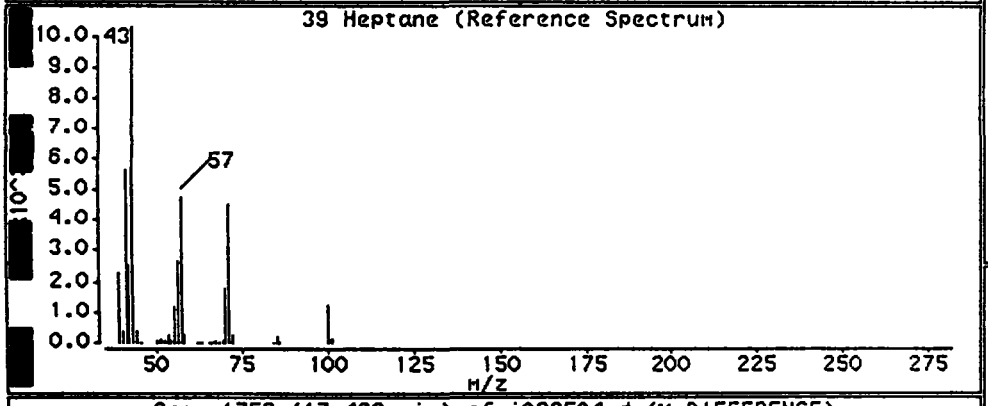
39 Heptane

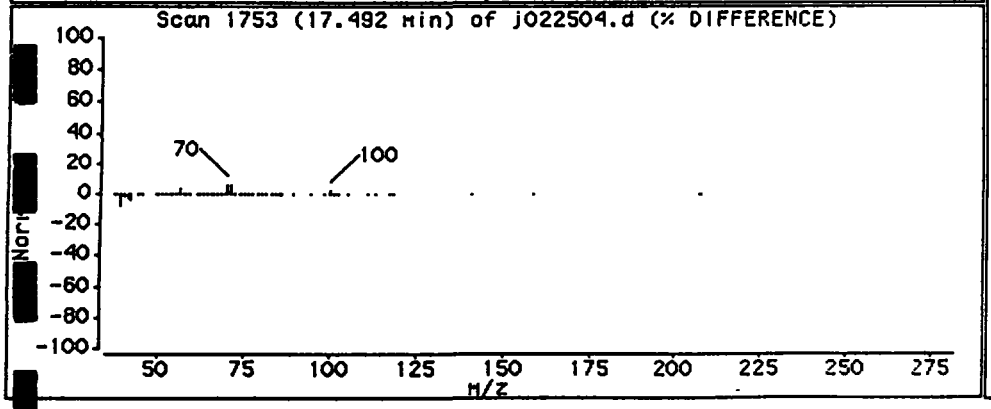


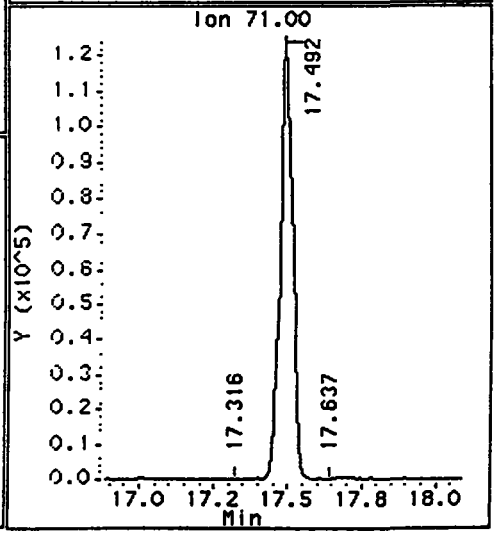












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

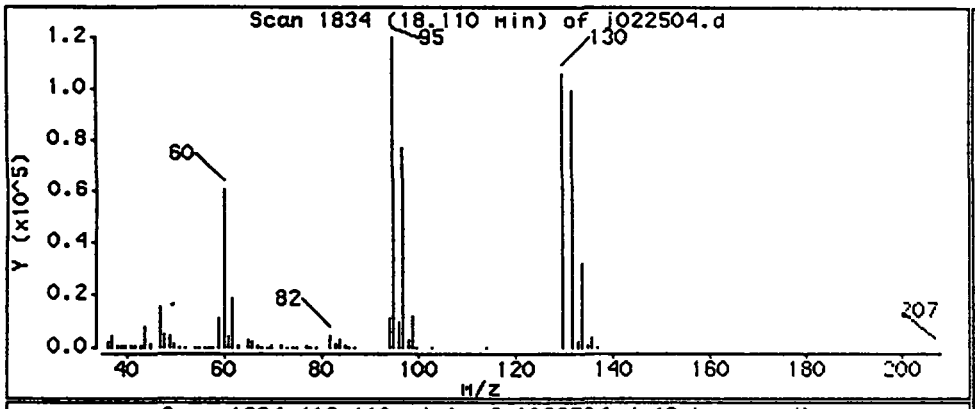
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

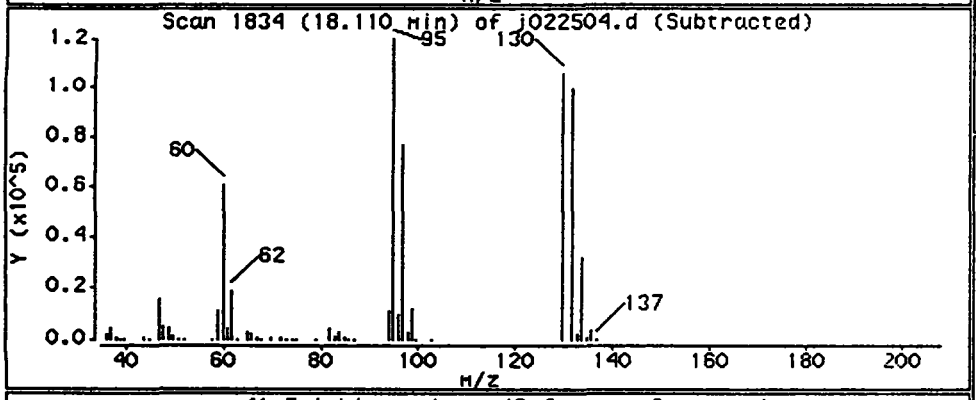
Operator: MH

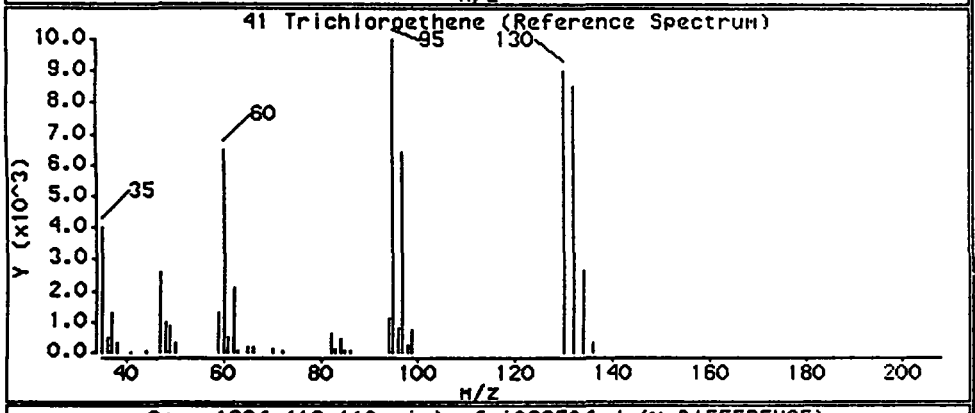
Column phase: RTx-624

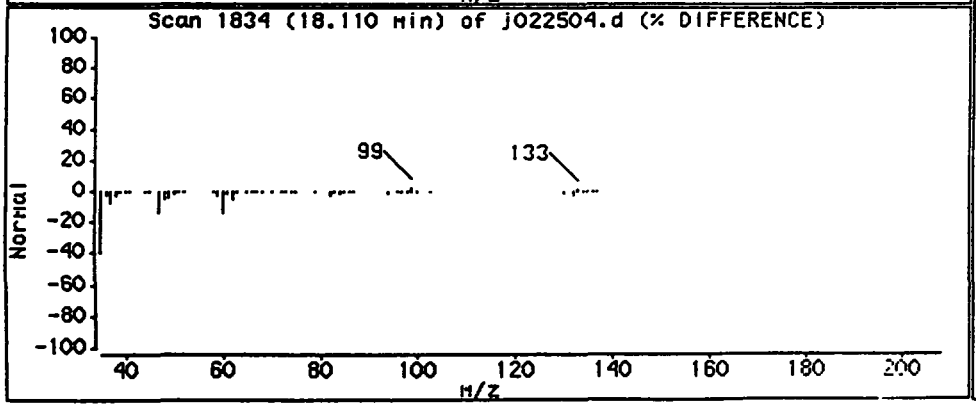
Column diameter: 0.58

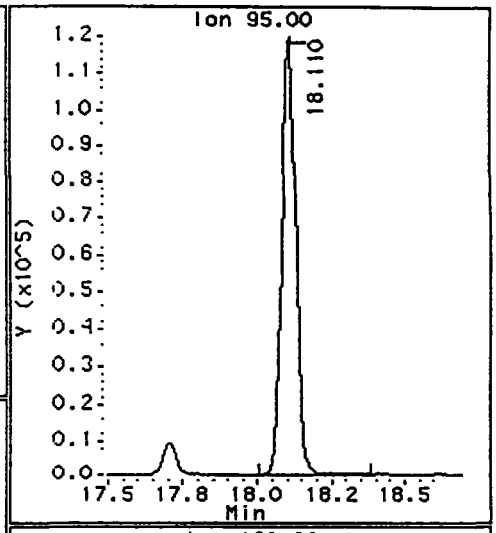
41 Trichloroethene

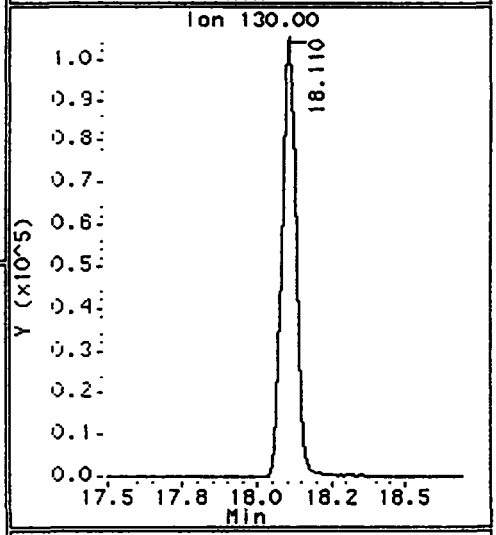


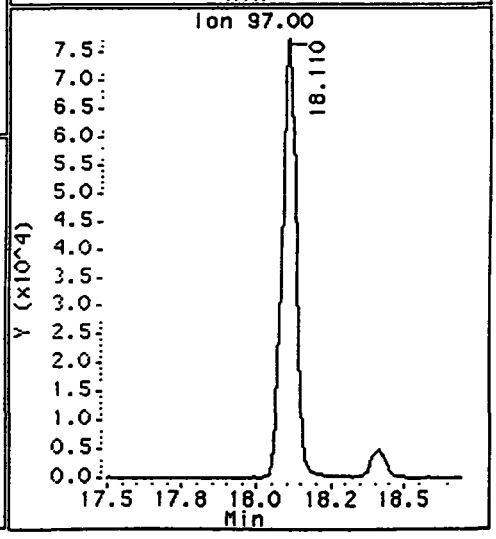












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

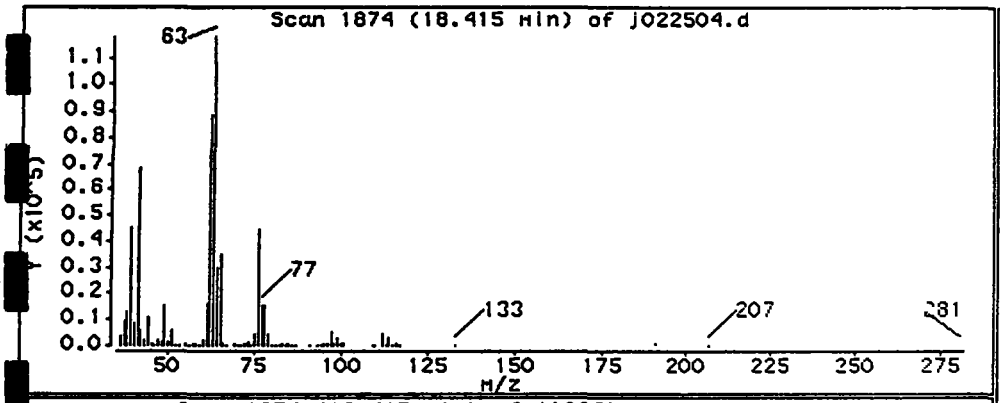
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

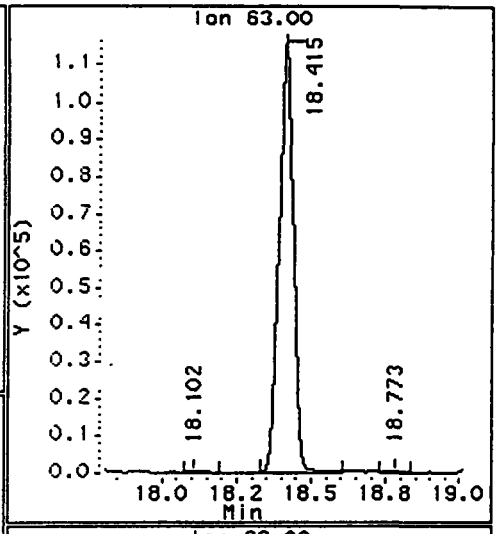
Operator: MH

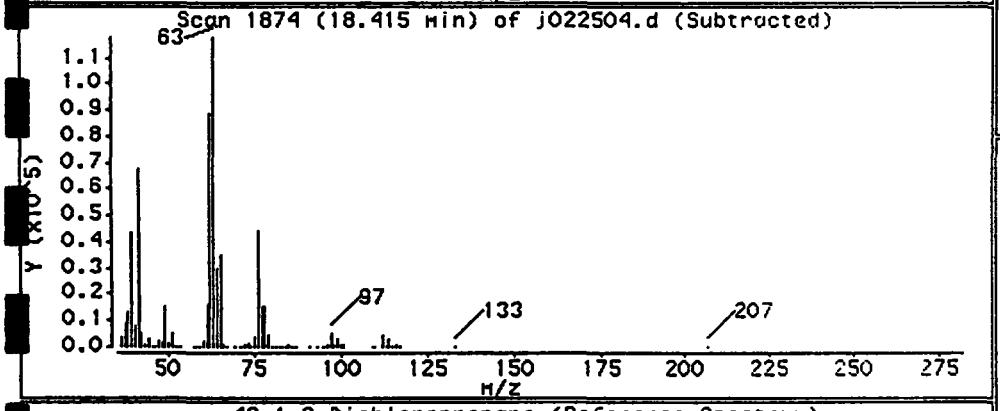
Column phase: RTx-624

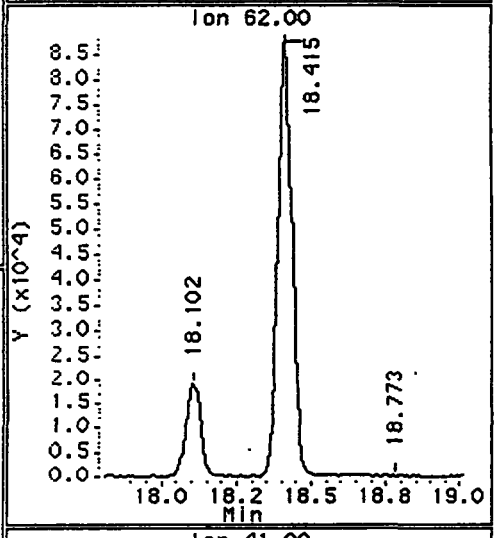
Column diameter: 0.58

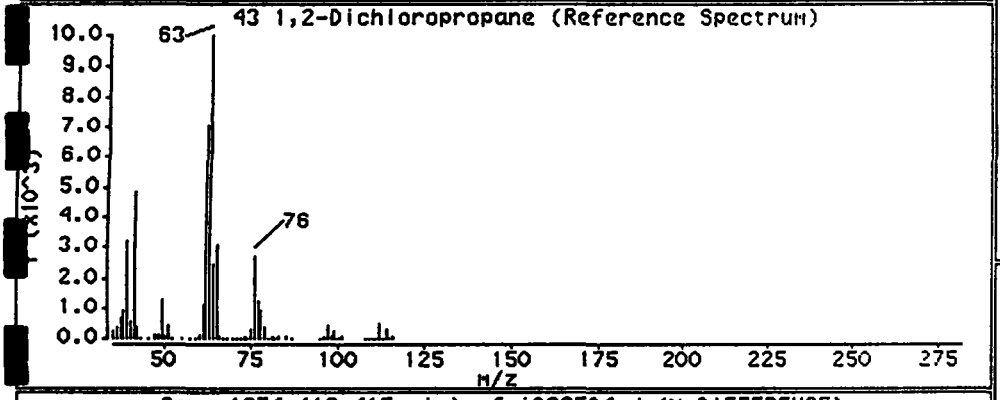
43 1,2-Dichloropropane

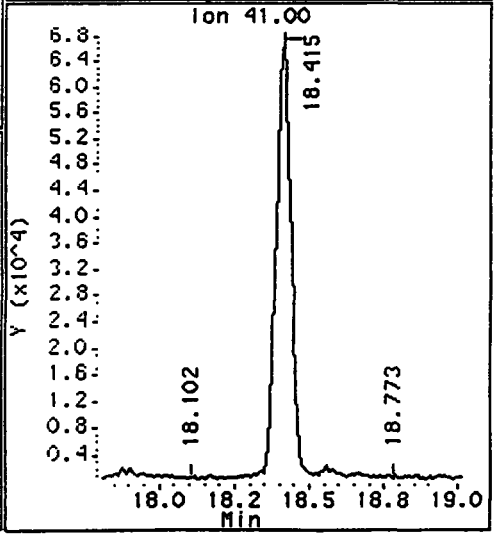


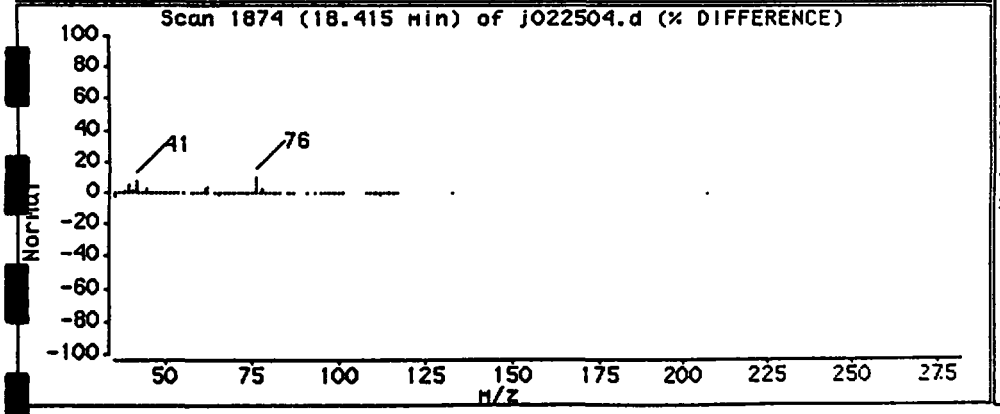












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

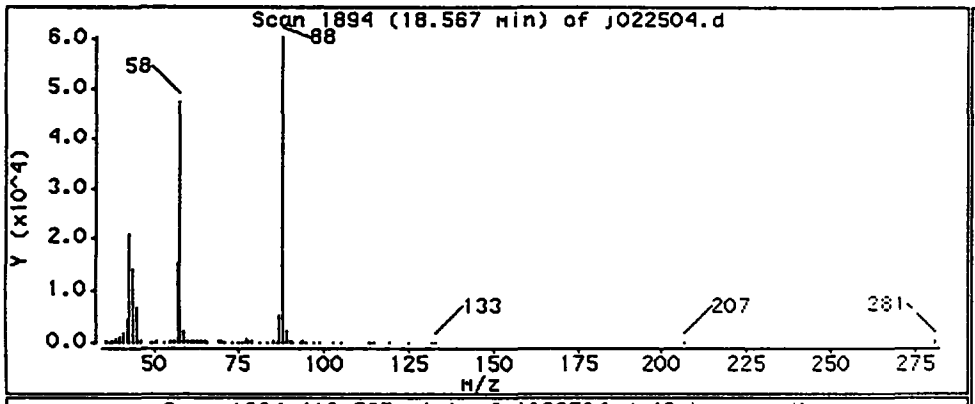
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

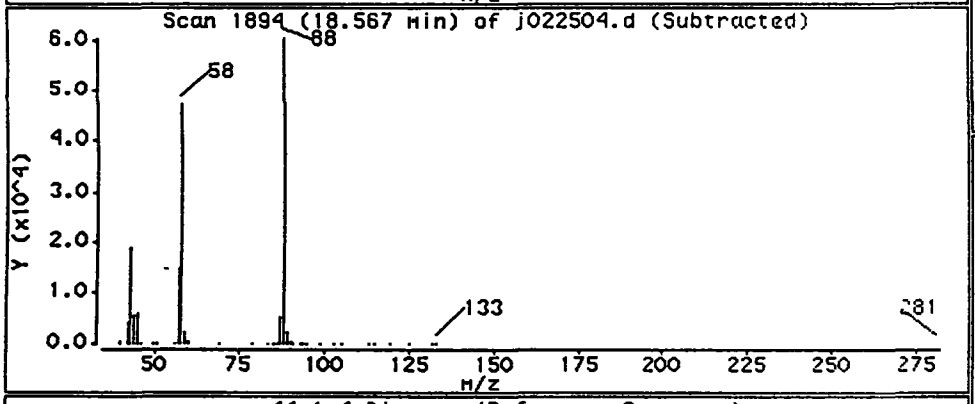
Operator: MH

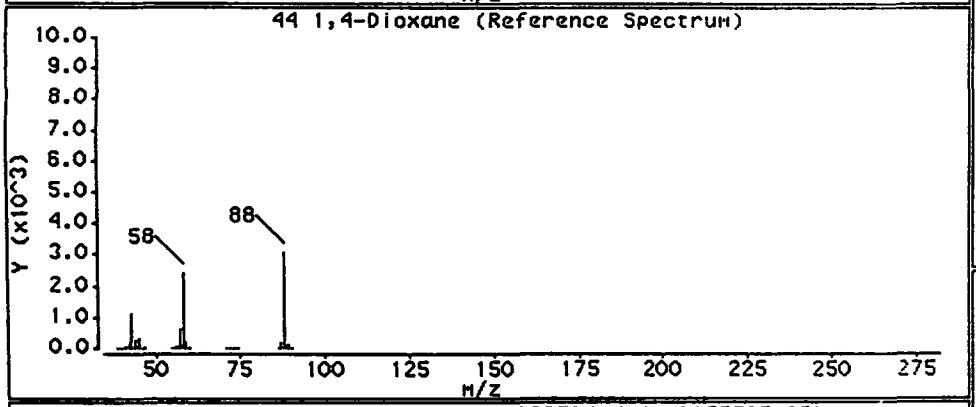
Column phase: RTx-624

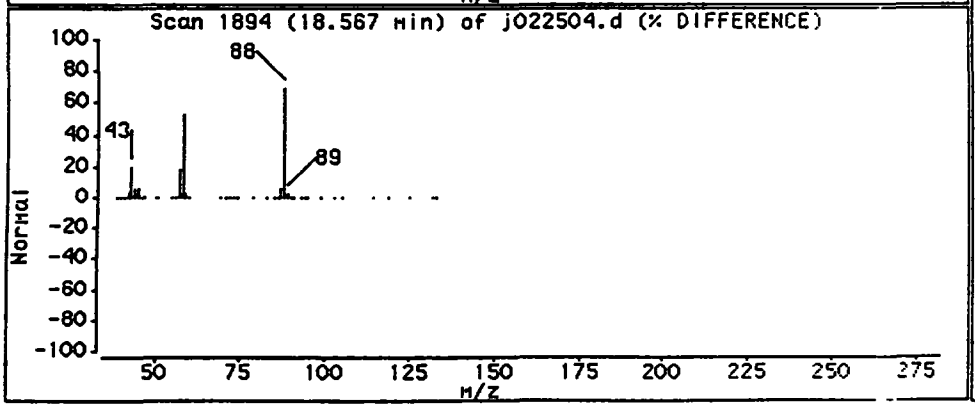
Column diameter: 0.58

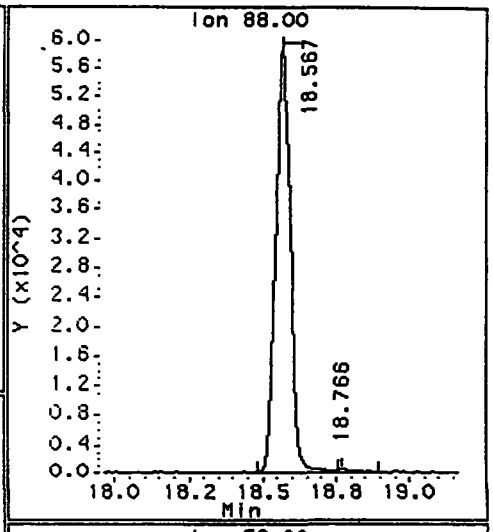
44 1,4-Dioxane

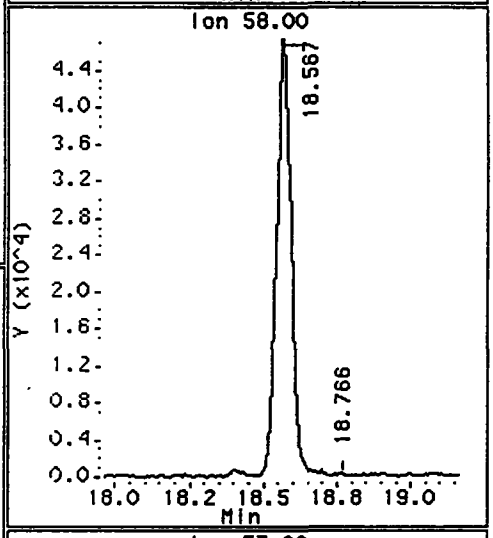


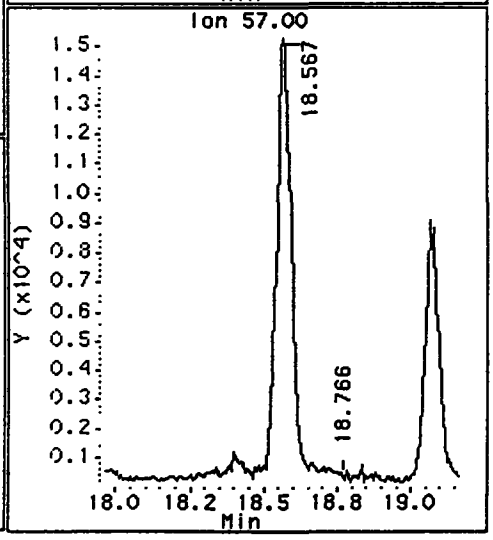












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

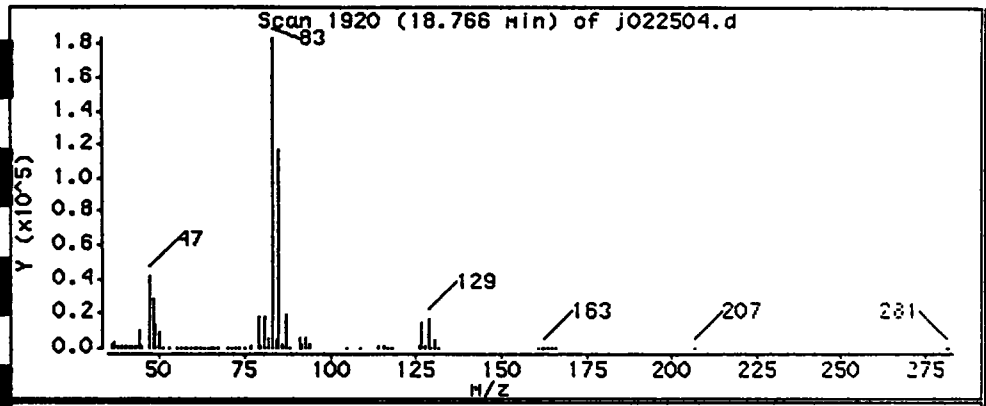
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

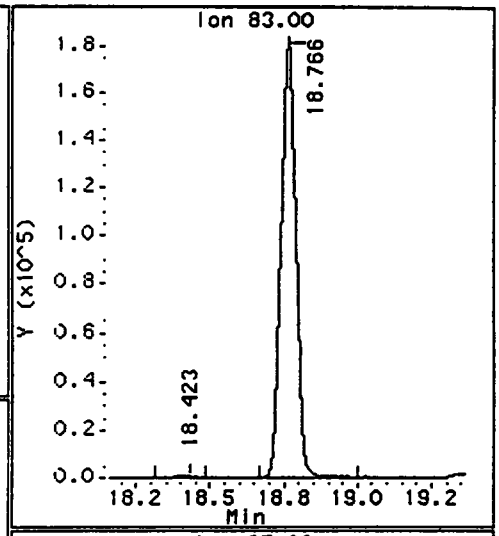
Operator: MH

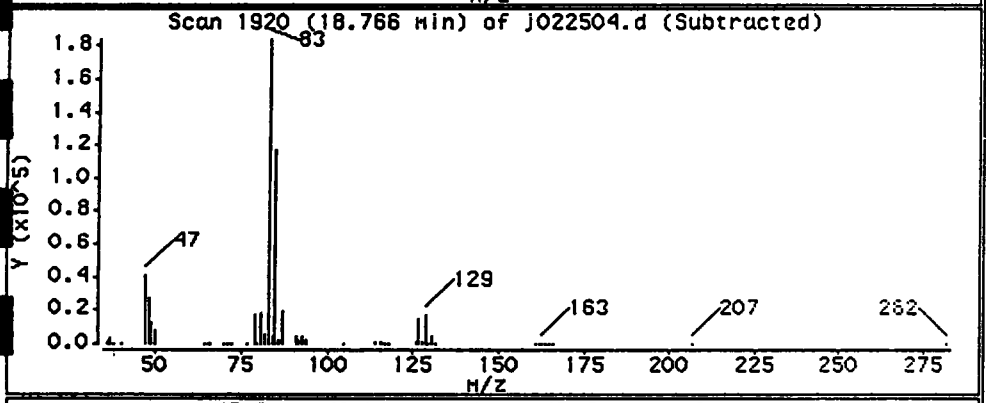
Column phase: RTx-624

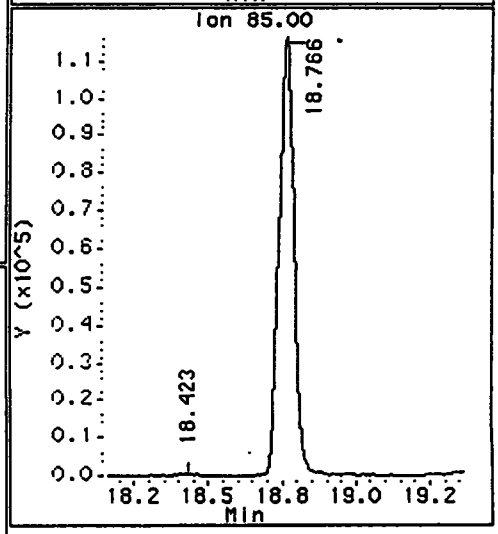
Column diameter: 0.58

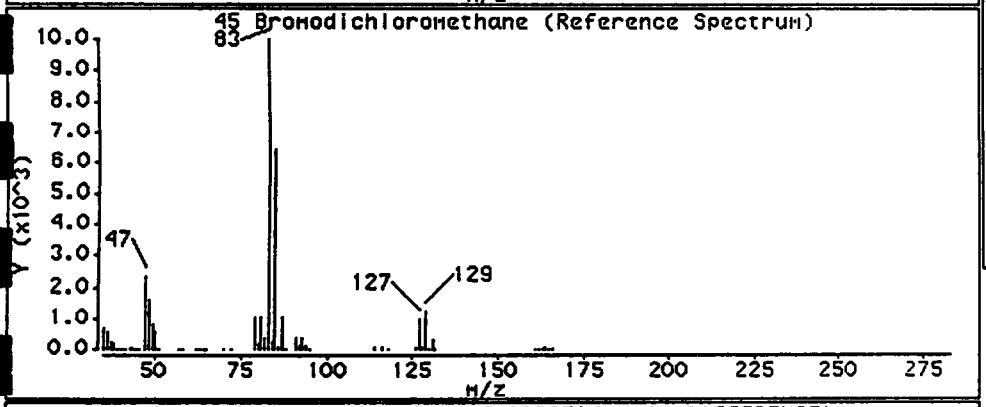
45 Bromodichloromethane

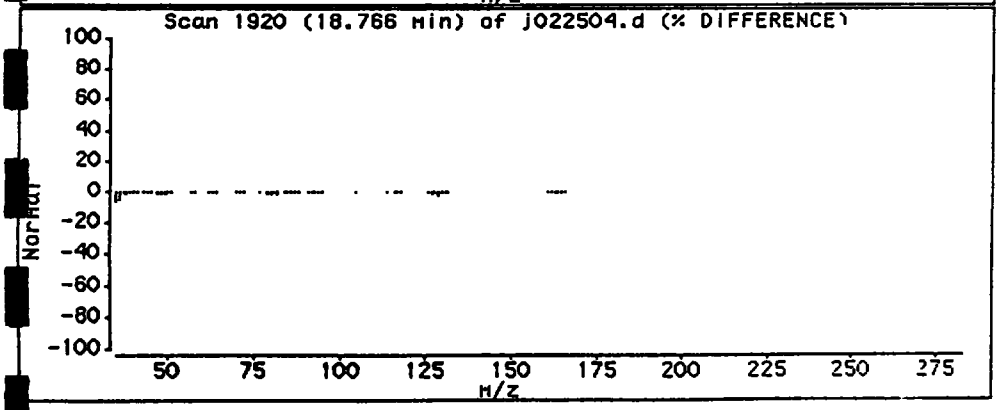












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

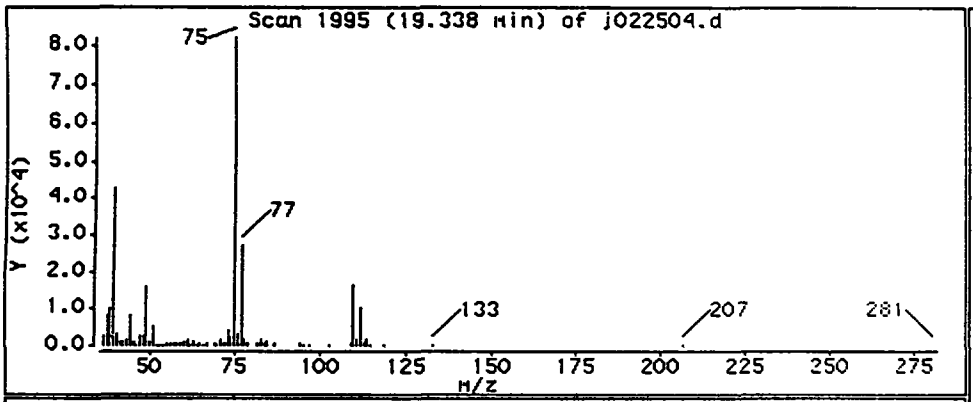
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

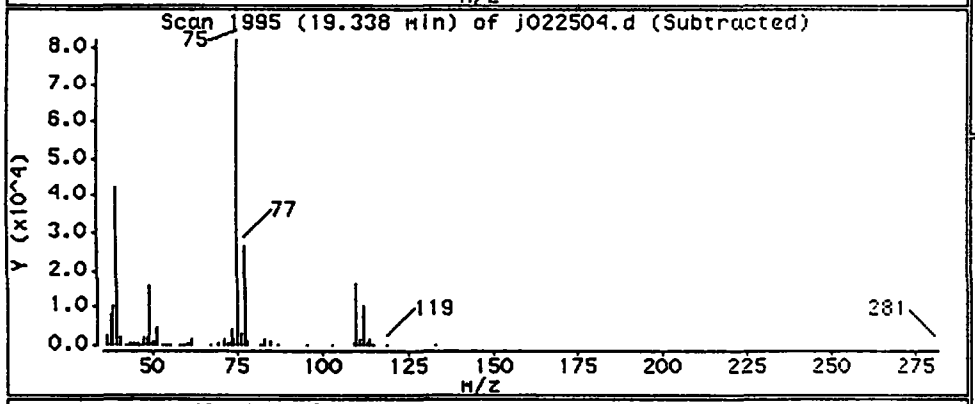
Operator: MH

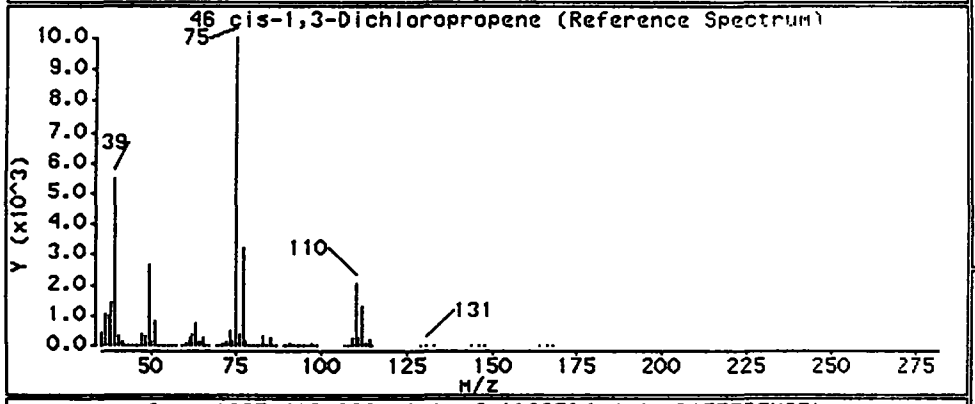
Column phase: RTx-624

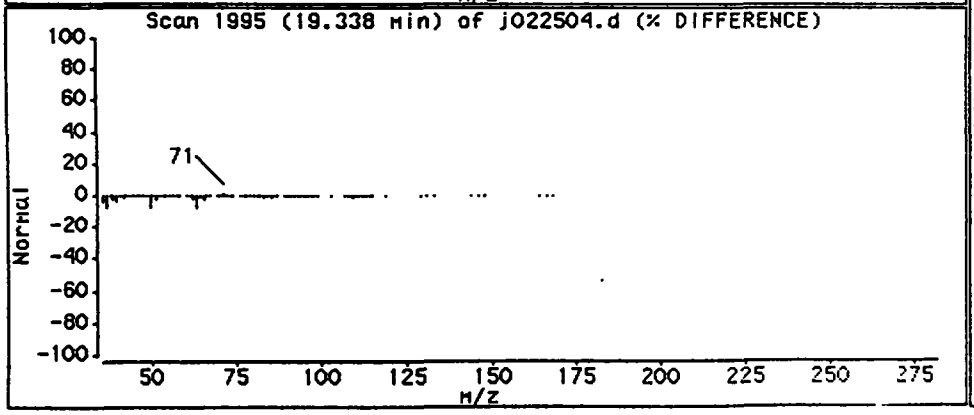
Column diameter: 0.58

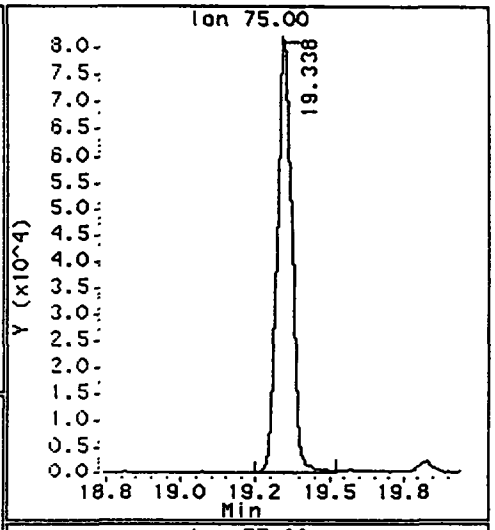
46 cis-1,3-Dichloropropene

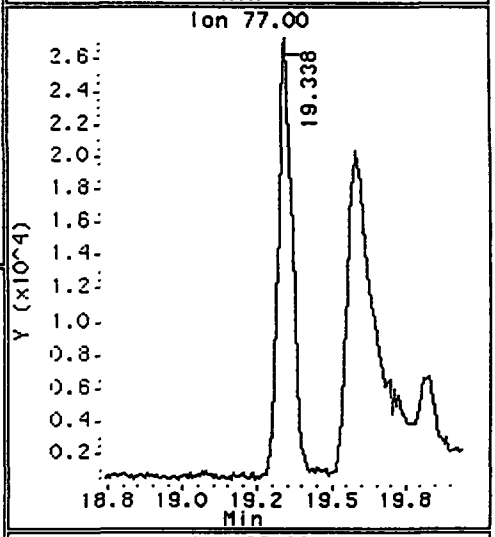


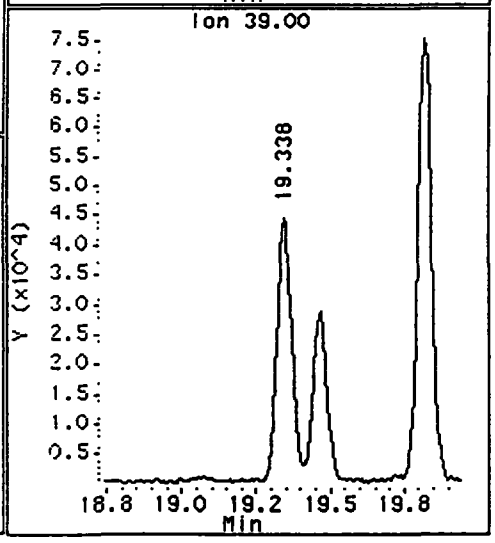












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

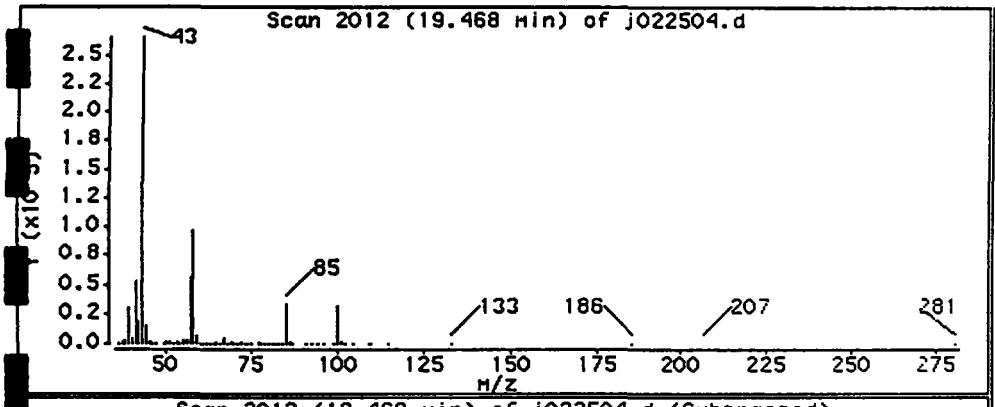
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

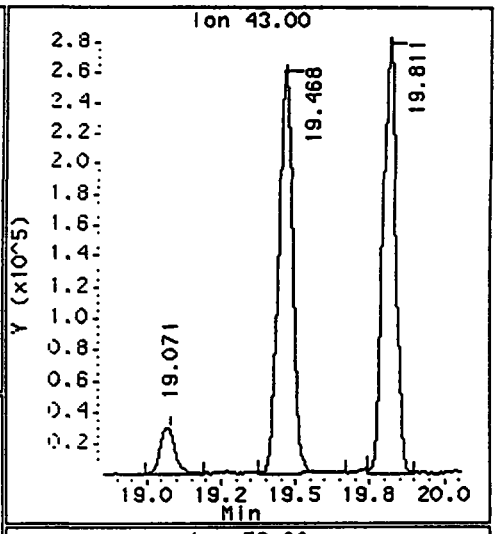
Operator: MH

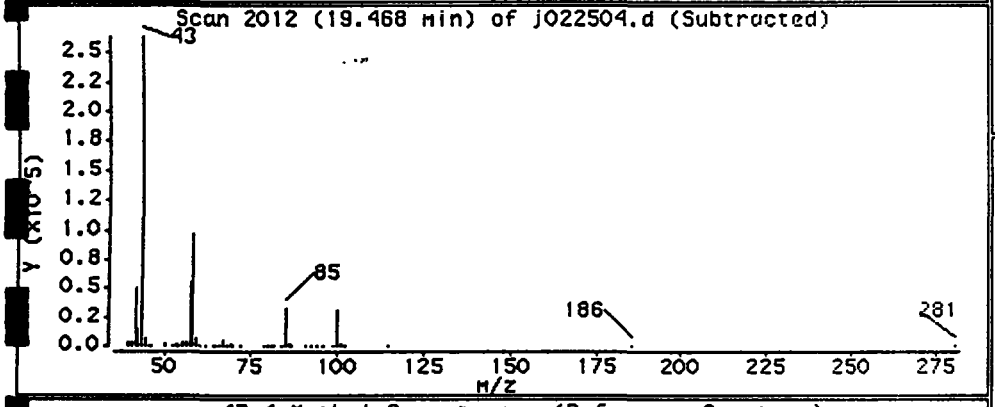
Column phase: RTx-624

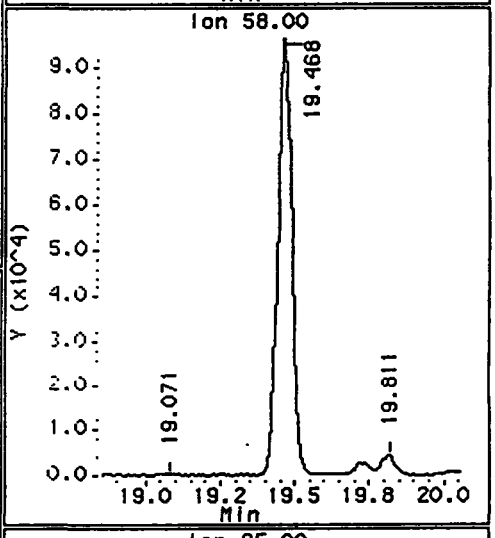
Column diameter: 0.58

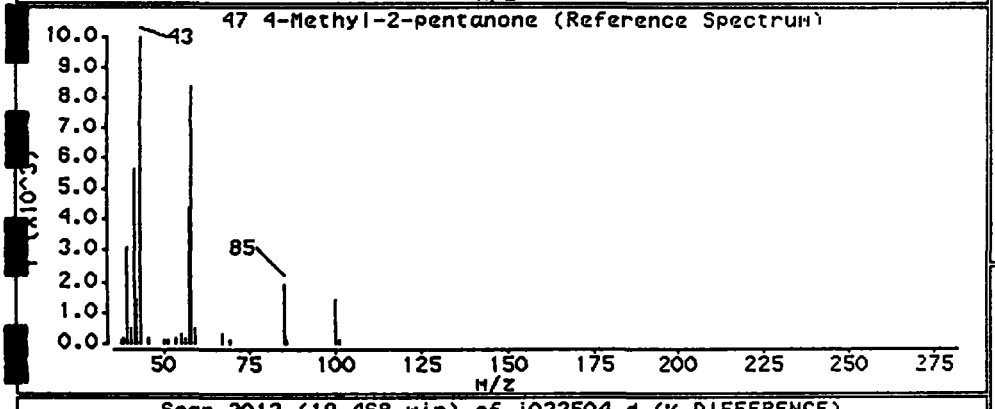
47 4-Methyl-2-pentanone

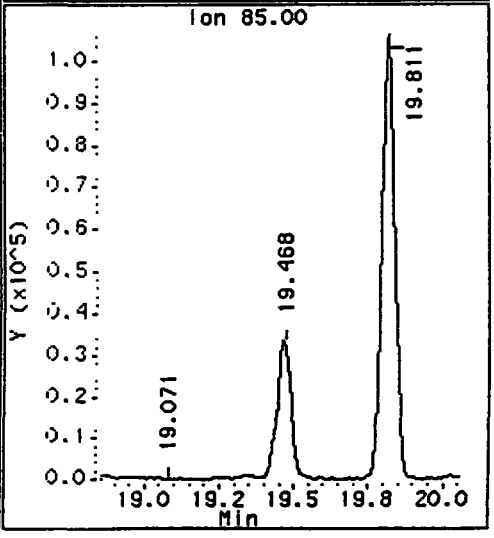


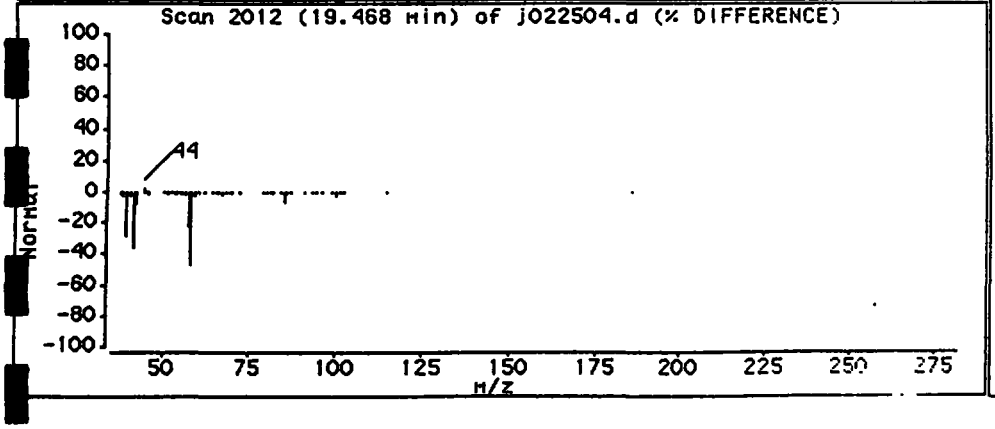












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

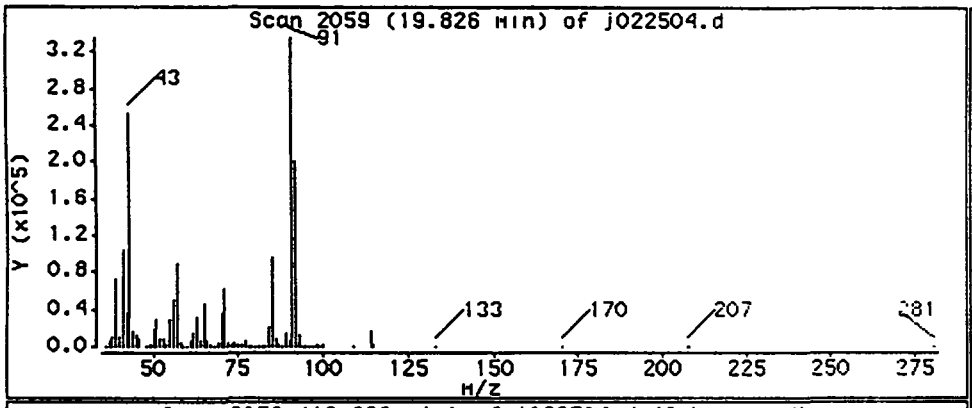
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

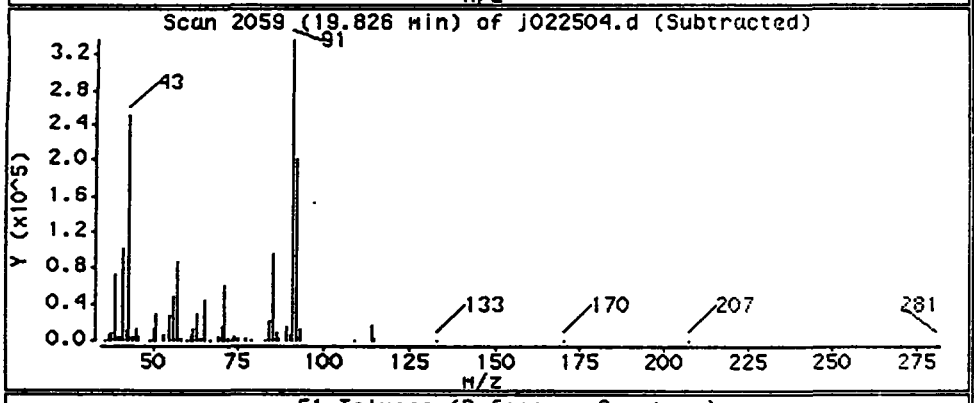
Operator: MH

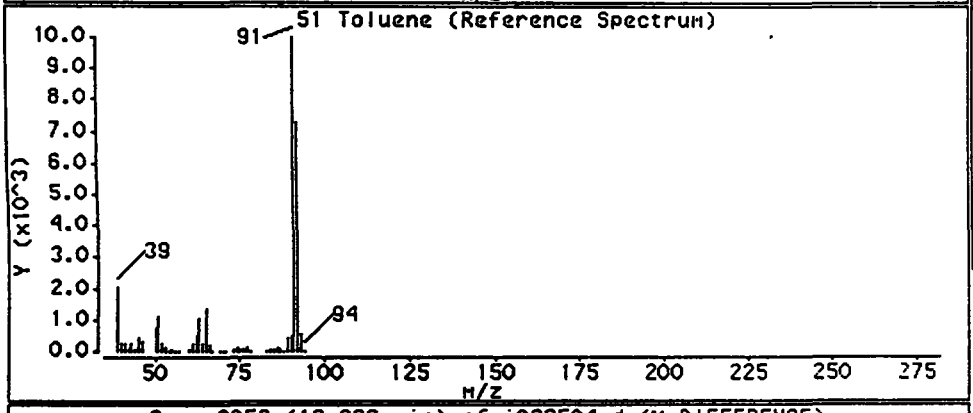
Column phase: RTx-624

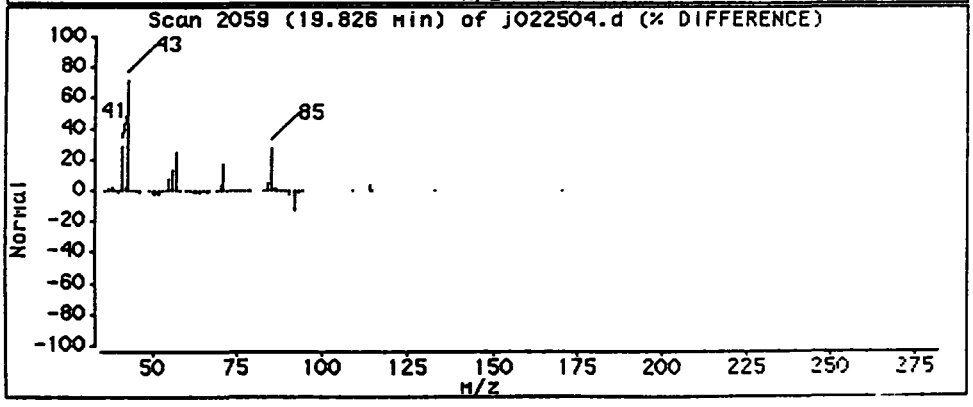
Column diameter: 0.58

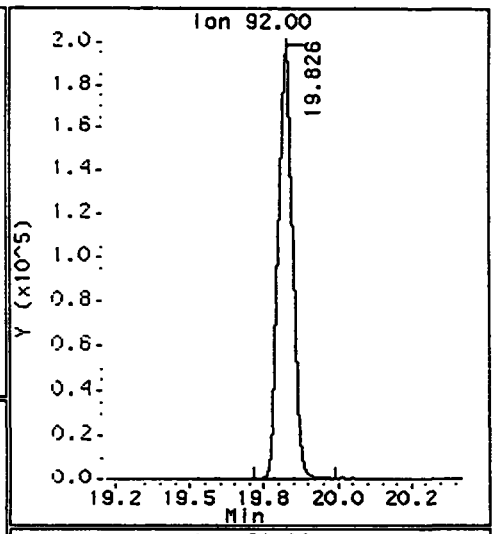
51 Toluene

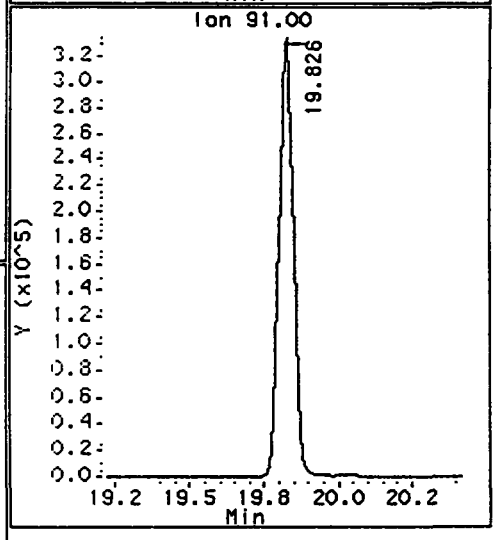












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

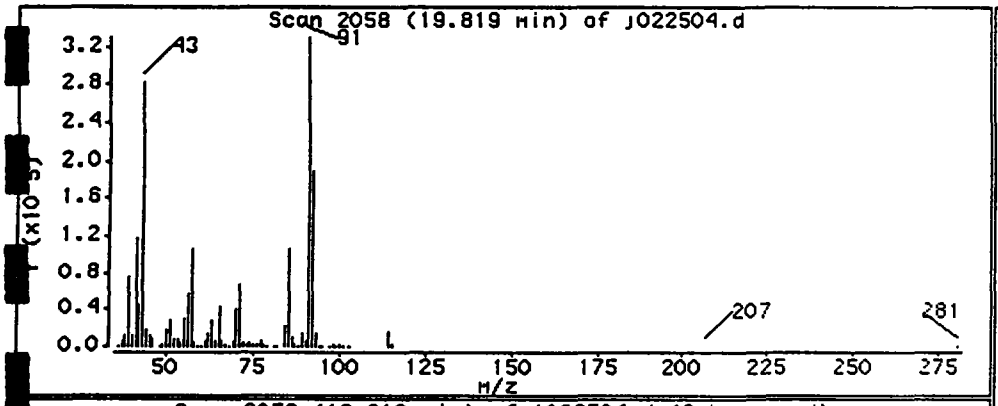
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

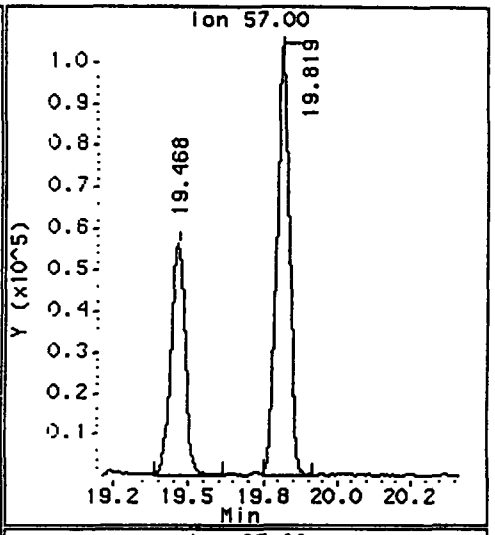
Operator: MH

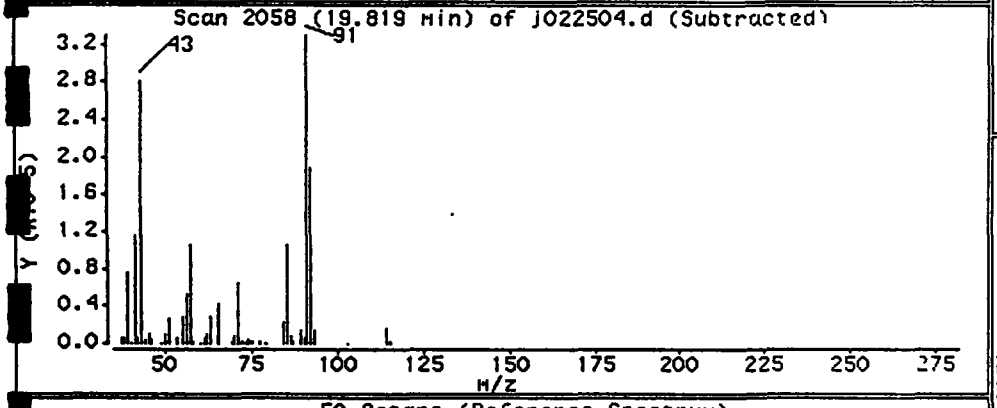
Column phase: RTx-624

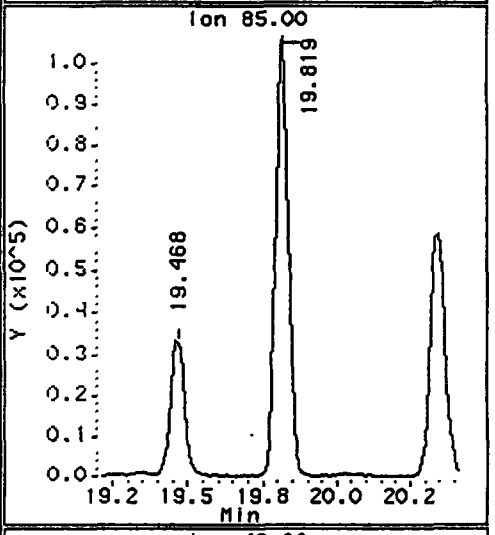
Column diameter: 0.58

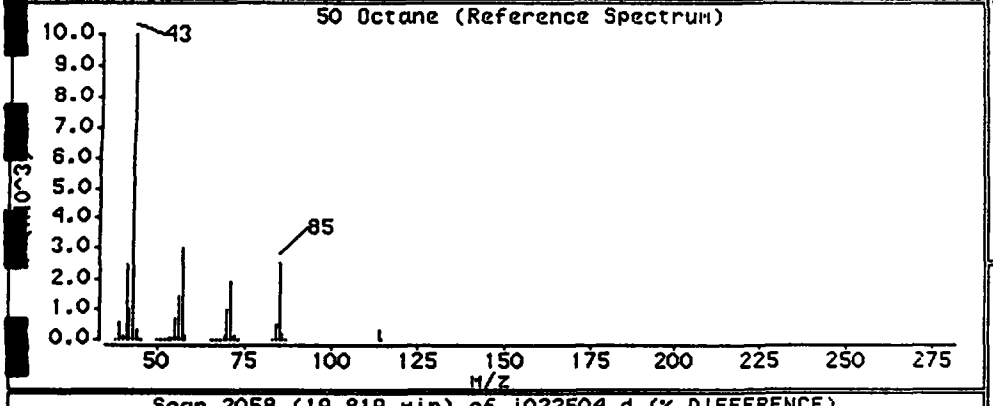
50 Octane

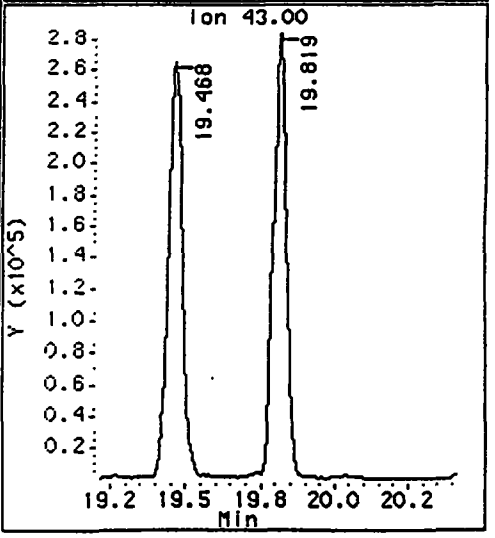


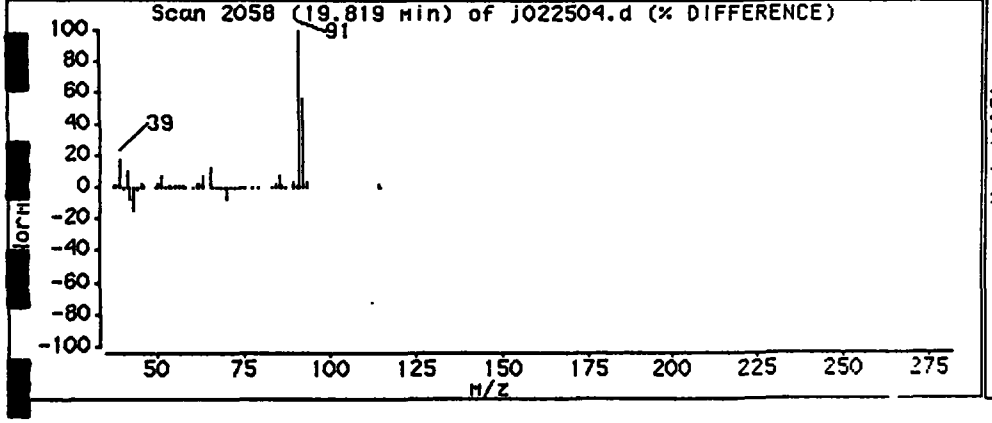






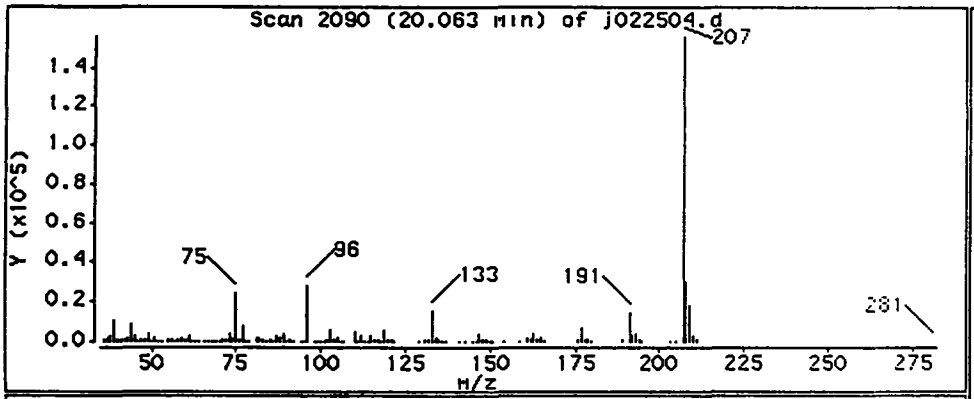


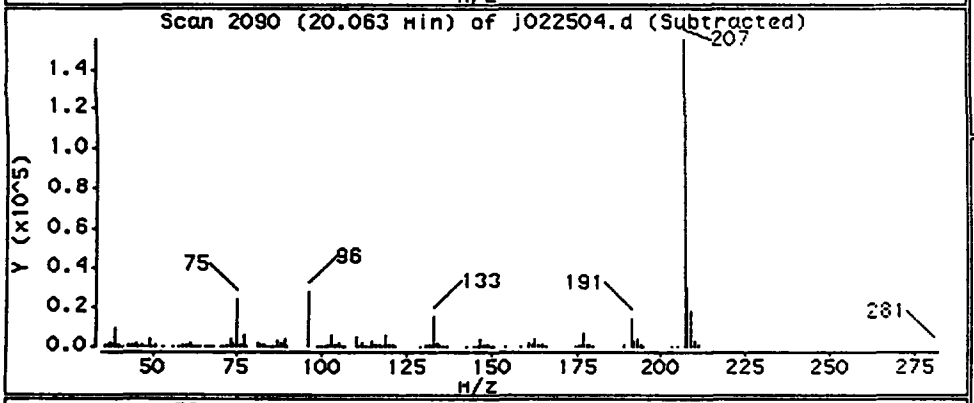


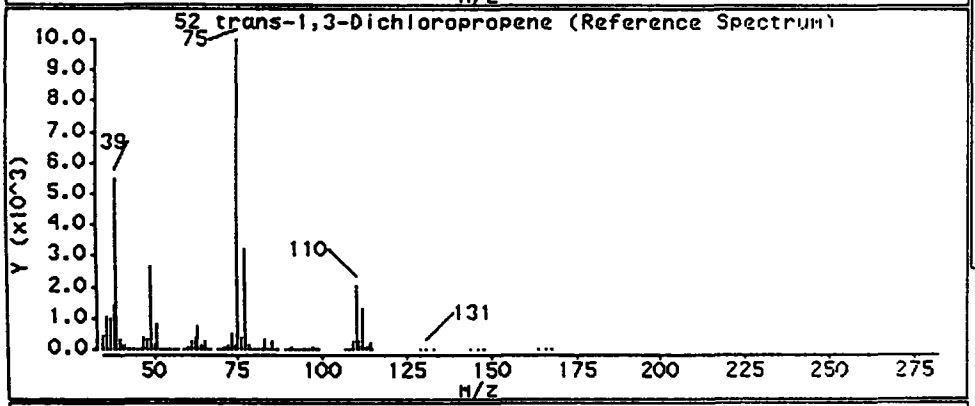


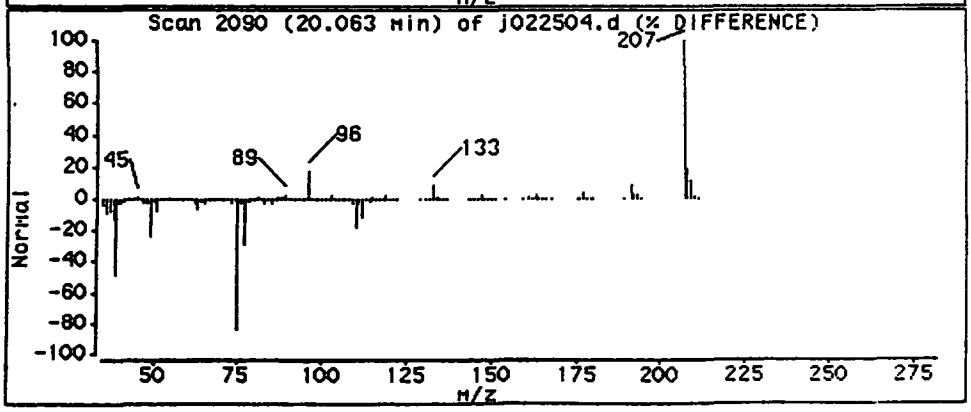
Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Client ID: Method Spike
Sample Info: #296-71 T014 Std. 25mL (5ppbv)
Column phase: RTx-624
Instrument: msdj.i
Operator: MH
Column diameter: 0.58

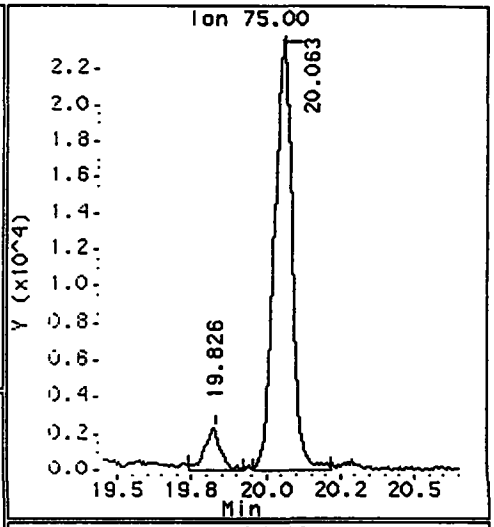
52 trans-1,3-Dichloropropene

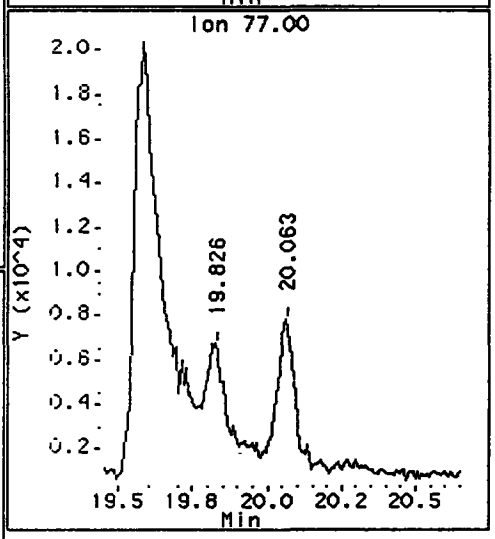












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

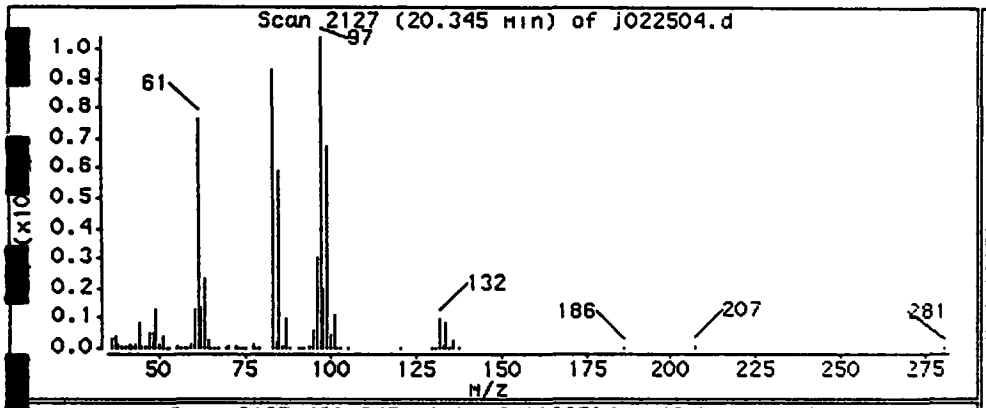
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

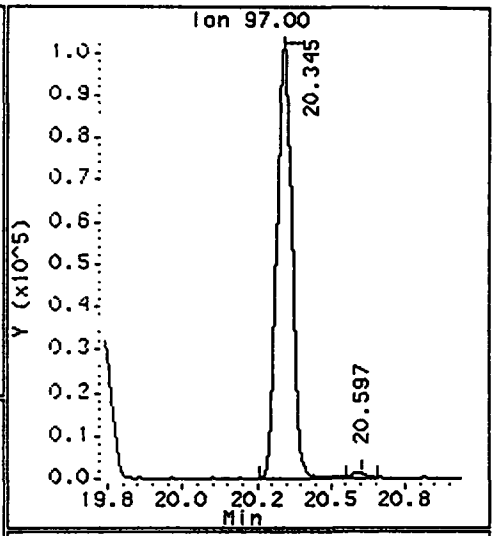
Operator: MH

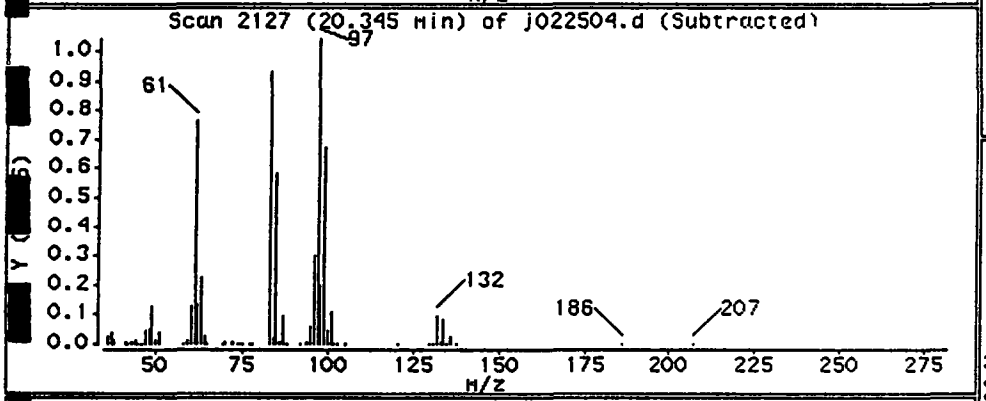
Column phase: RTx-624

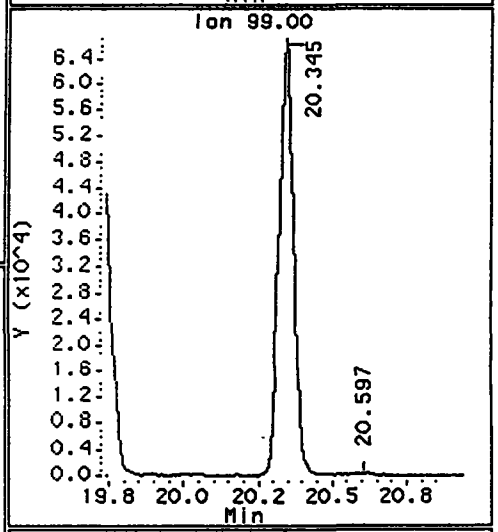
Column diameter: 0.58

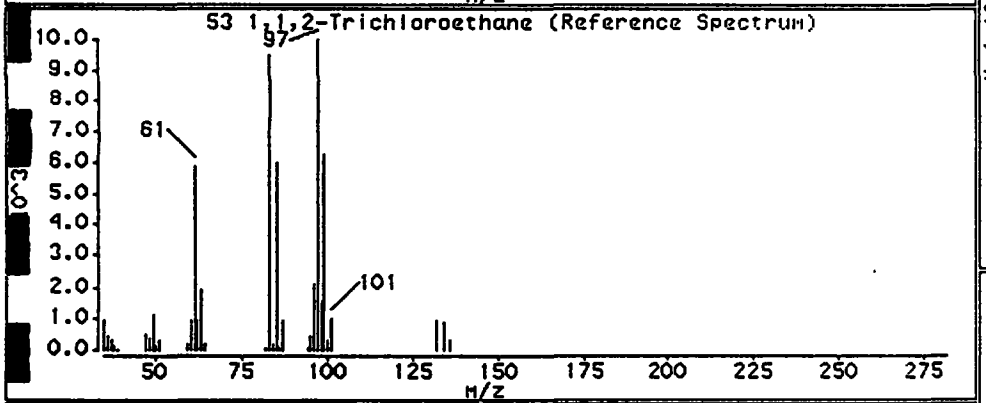
53 1,1,2-Trichloroethane

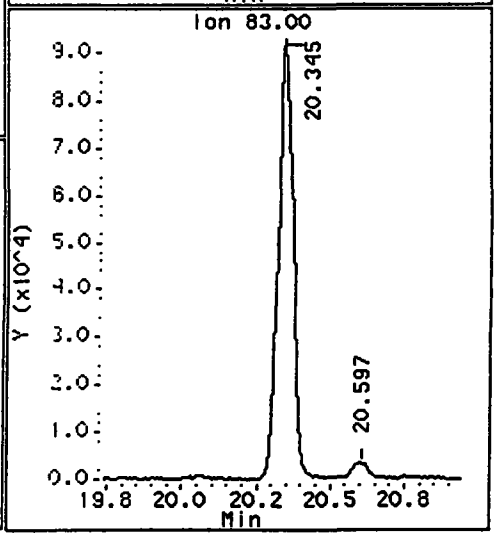


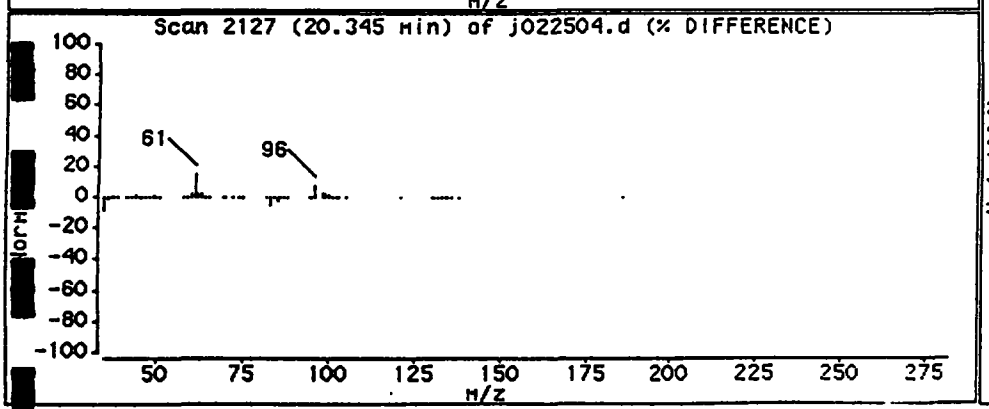












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

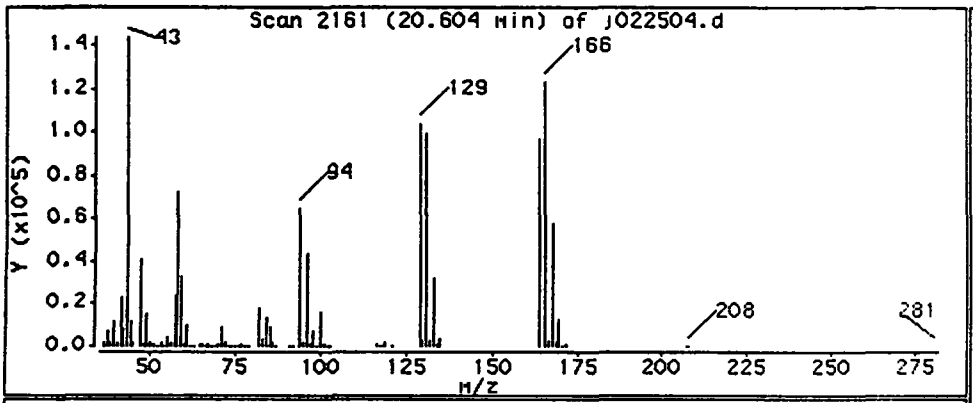
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

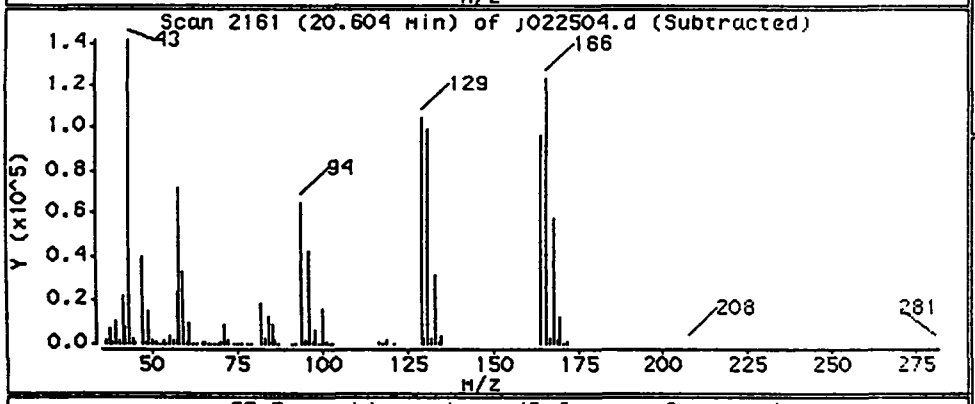
Operator: MH

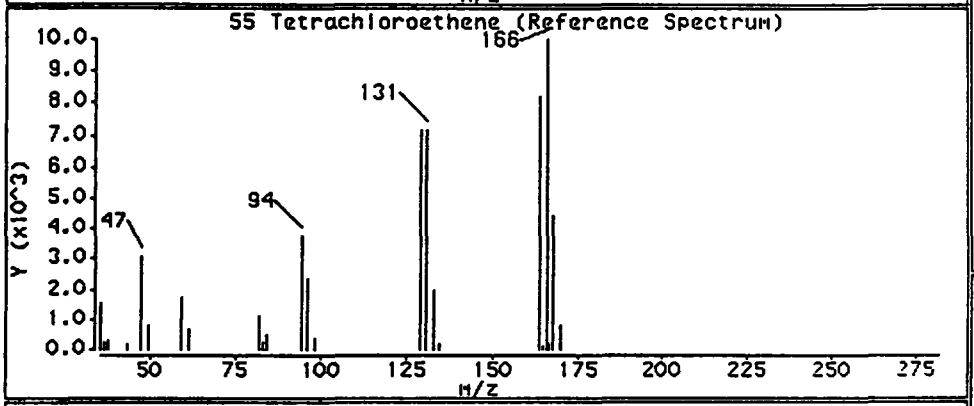
Column phase: RTx-624

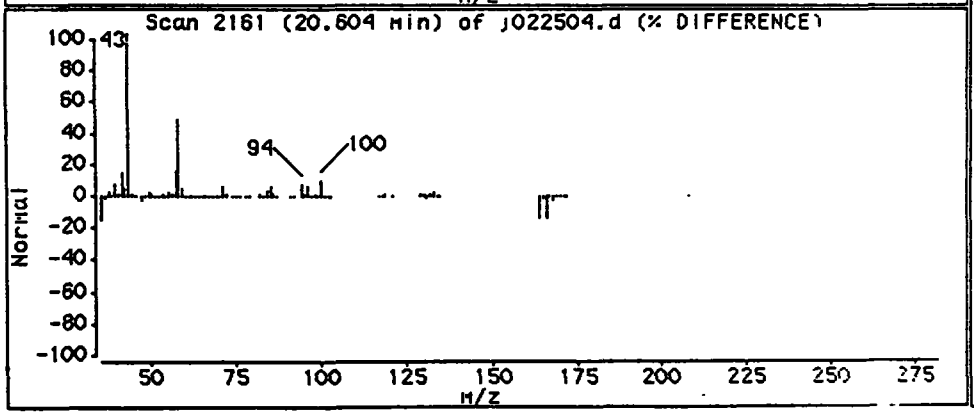
Column diameter: 0.58

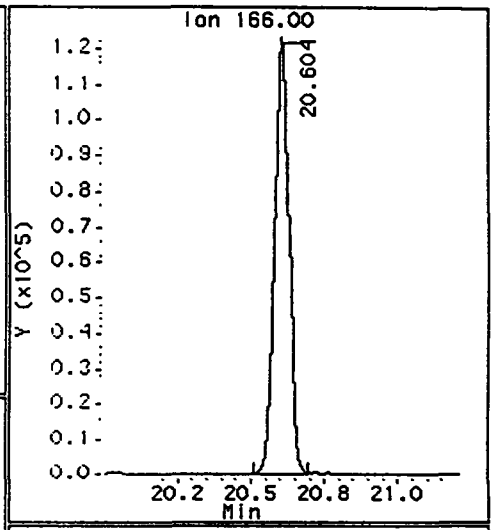
55 Tetrachloroethene

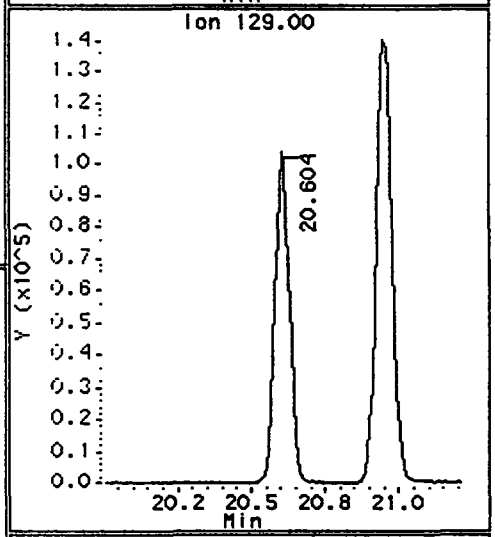


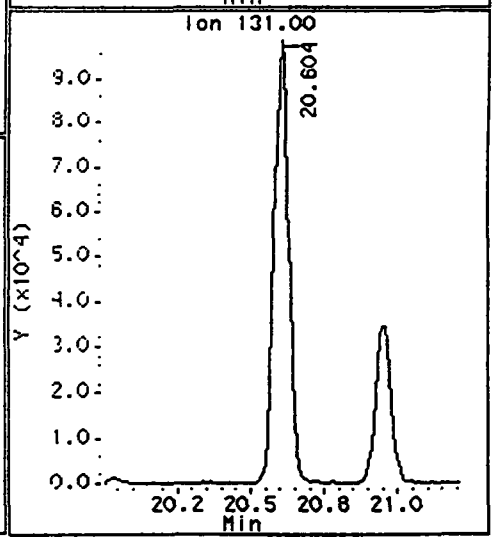












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

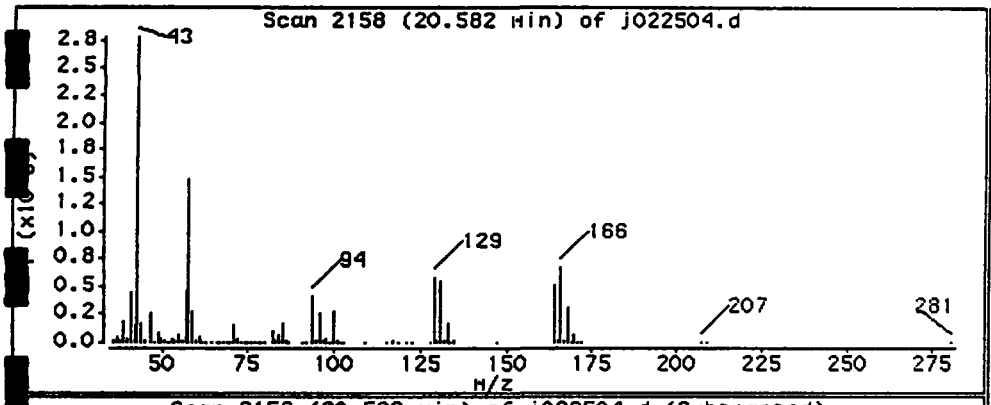
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

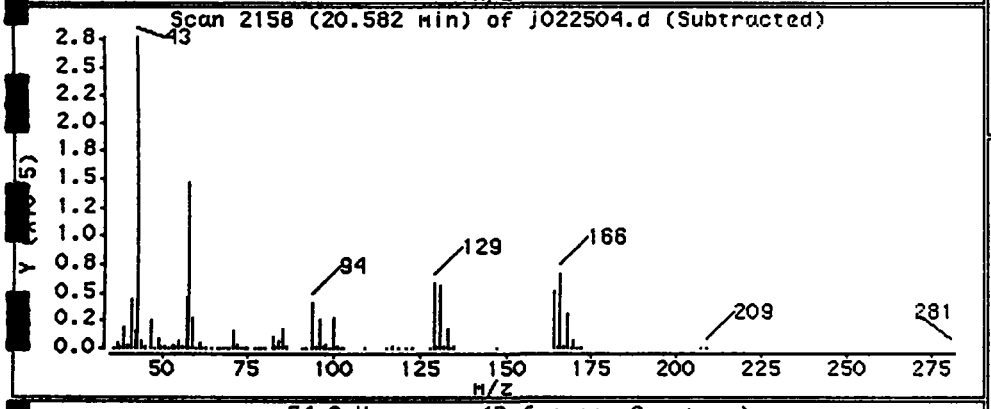
Operator: MH

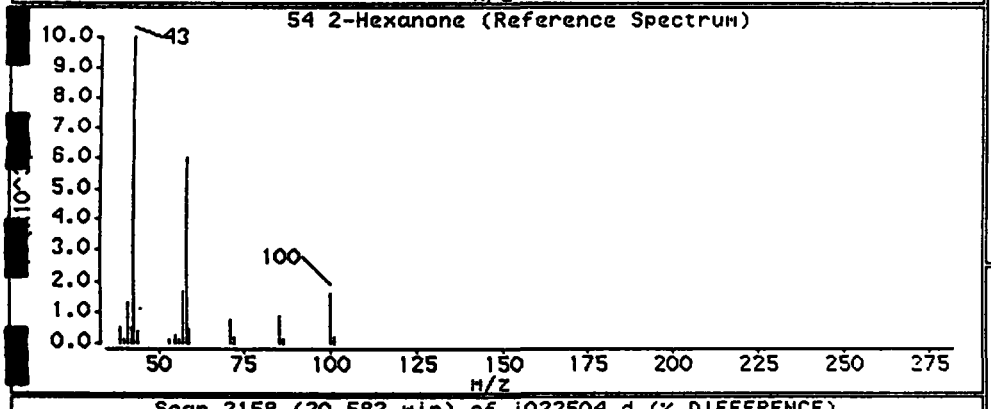
Column phase: RTx-624

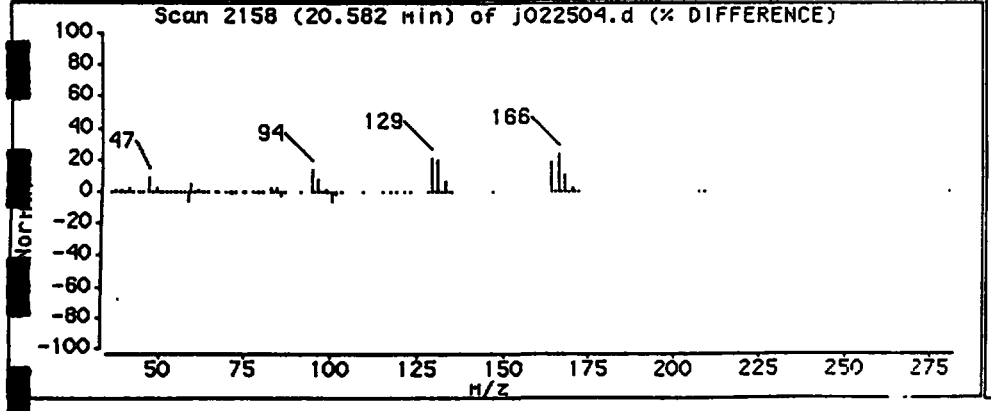
Column diameter: 0.58

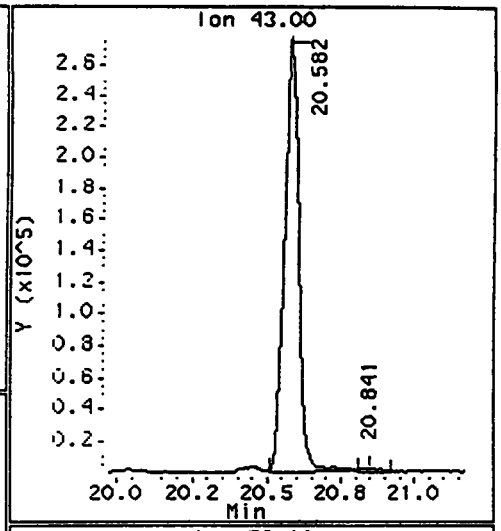
54 2-Hexanone

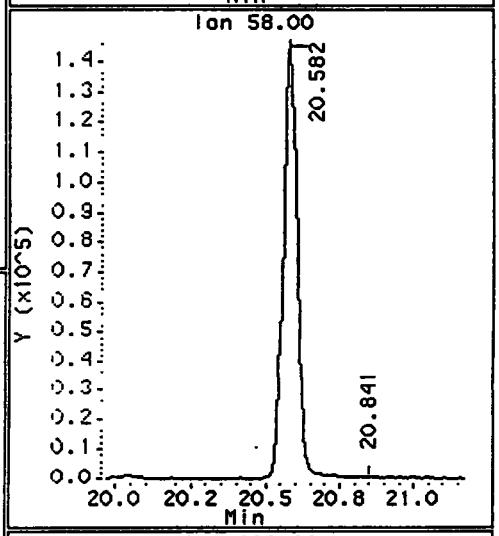


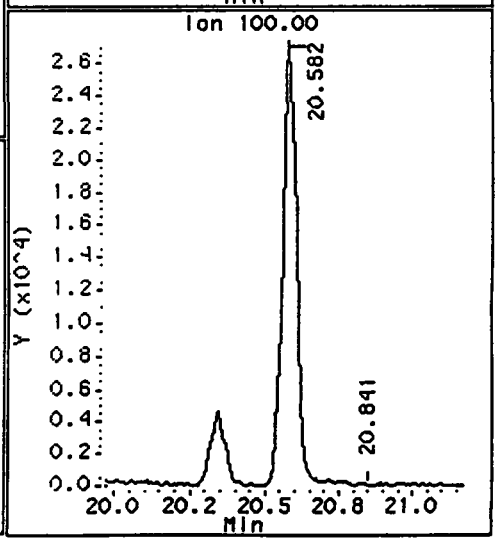












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

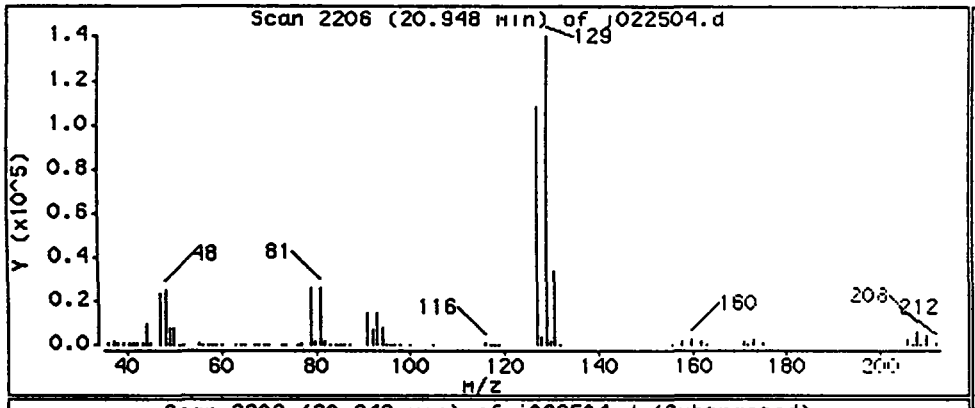
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

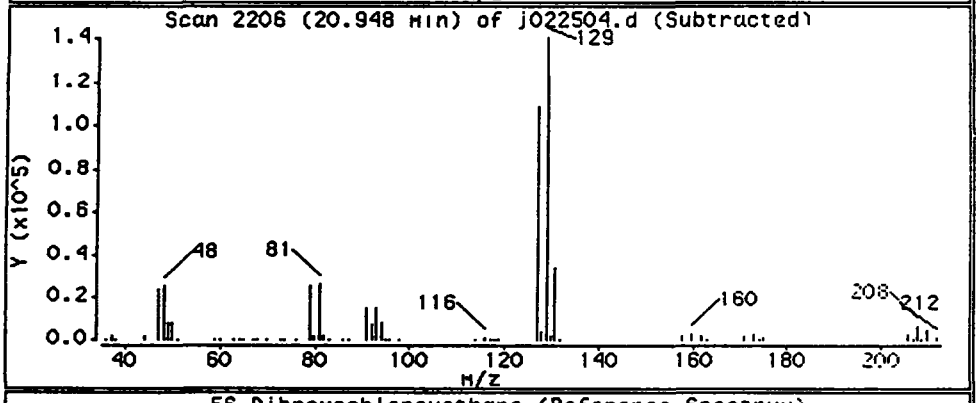
Operator: MH

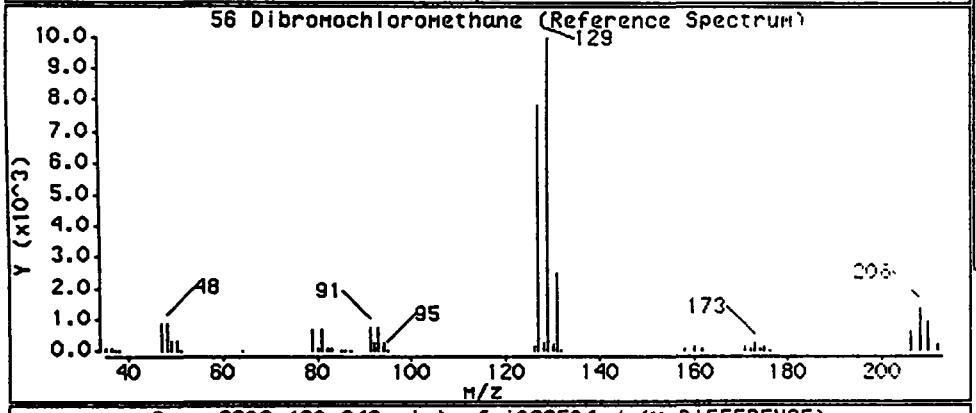
Column phase: RTx-624

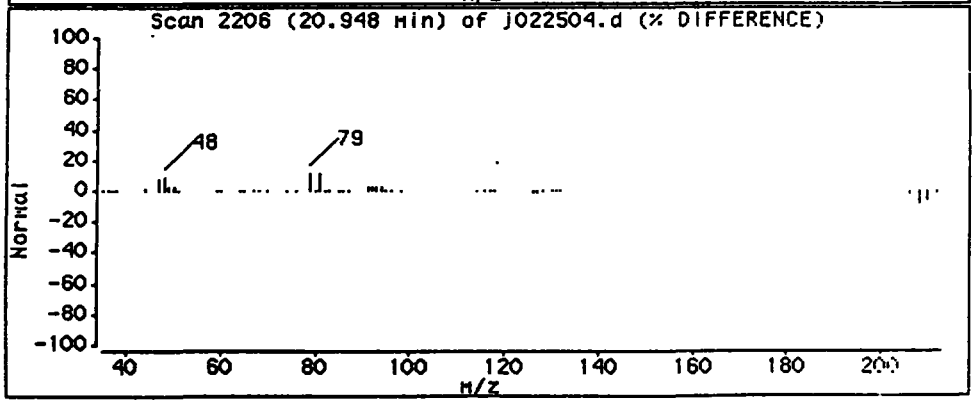
Column diameter: 0.58

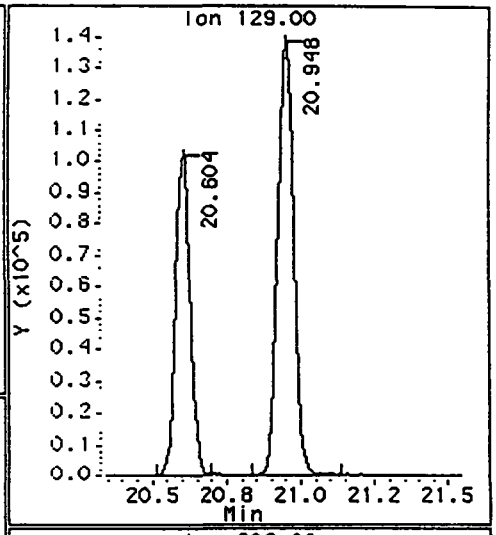
56 Dibromochloromethane

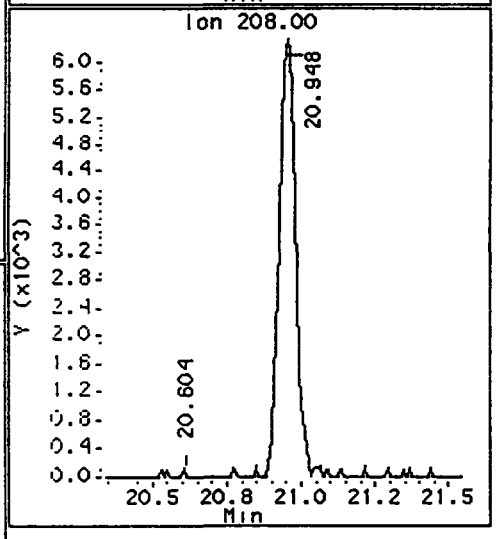












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

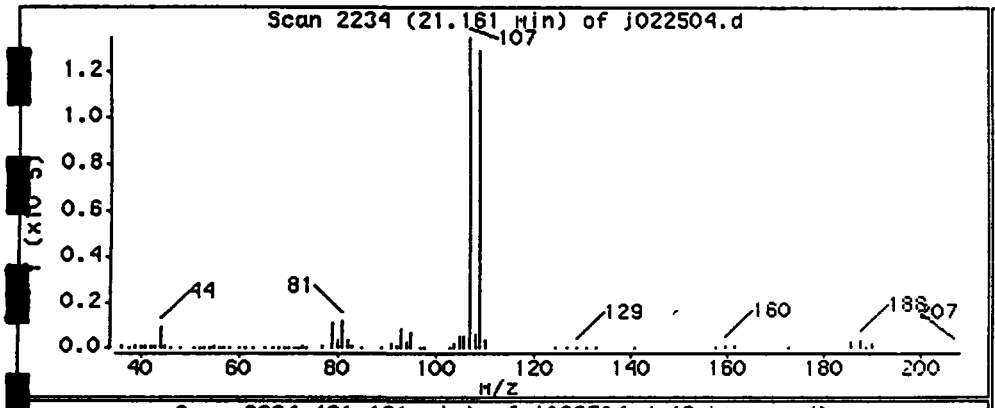
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

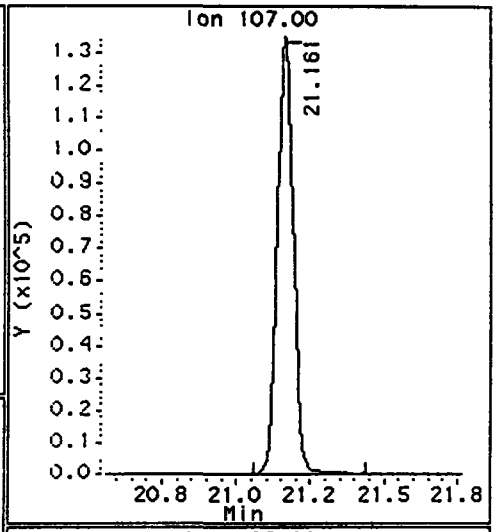
Operator: MH

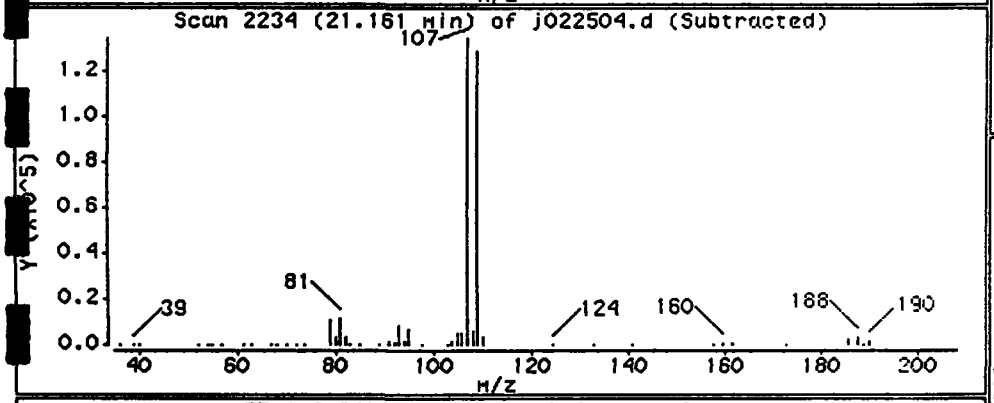
Column phase: RTx-624

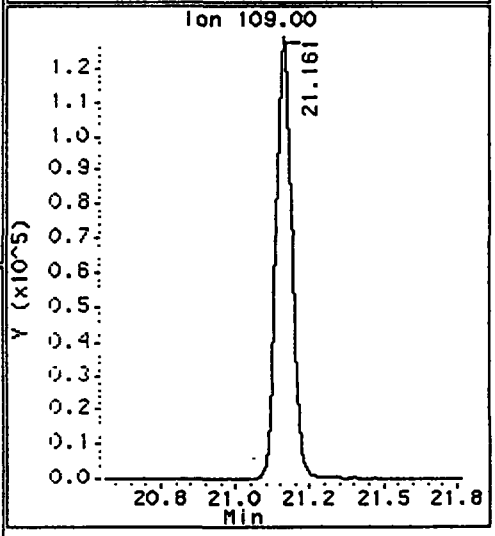
Column diameter: 0.58

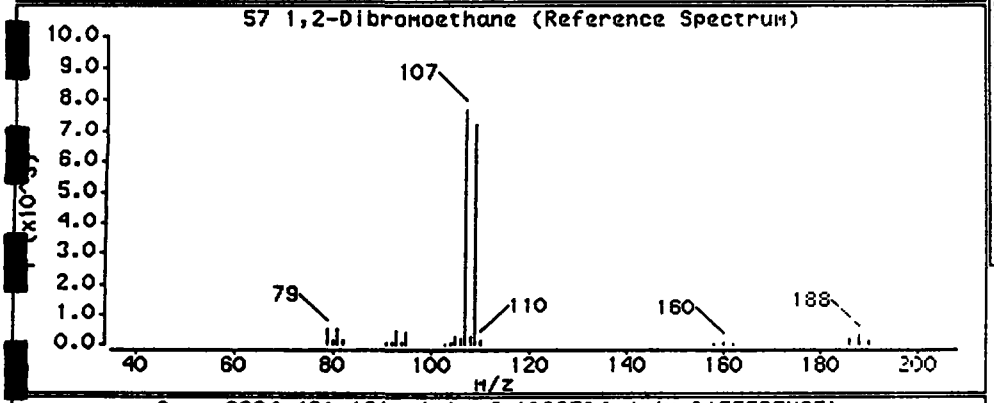
57 1,2-Dibromoethane

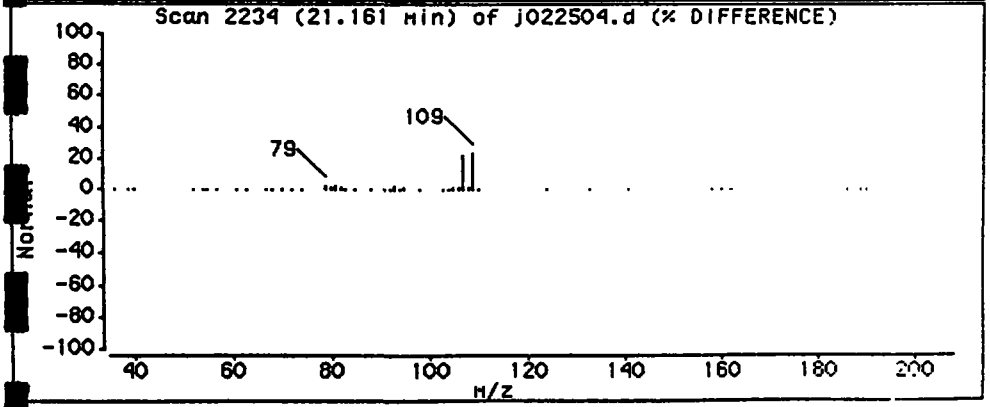












Data File: /chem/msdj.i/j-25feb.b/j022504.d

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Client ID: Method Spike

Instrument: msdj.i

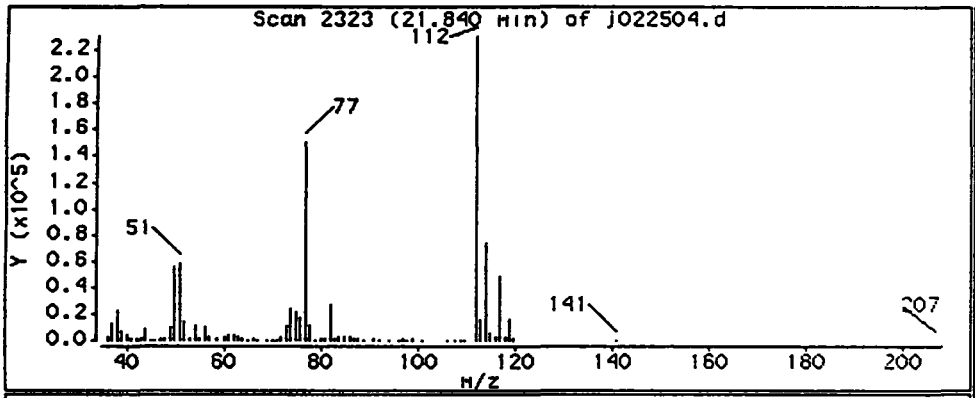
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

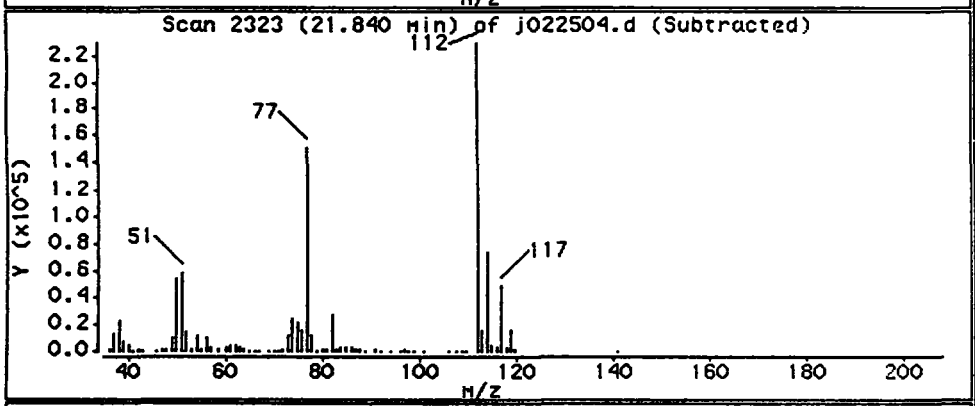
Operator: MH

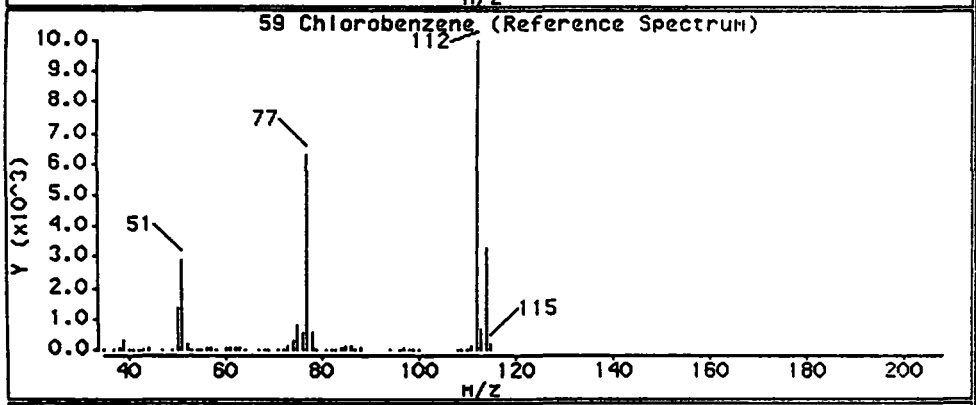
Column phase: RTx-624

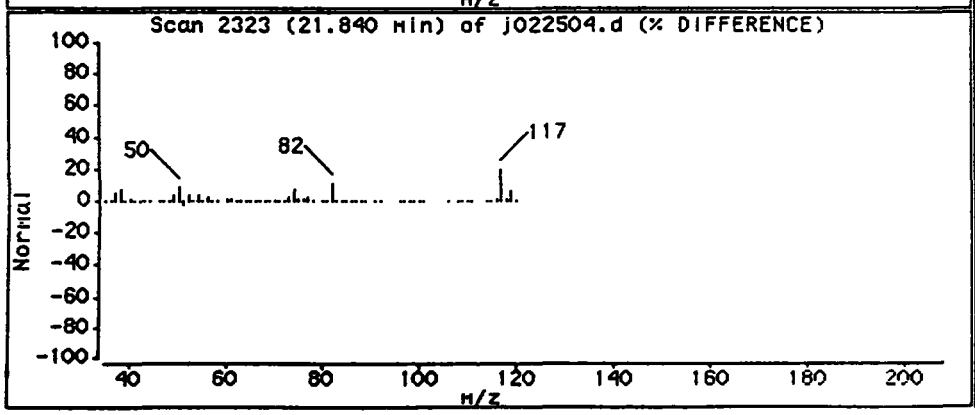
Column diameter: 0.58

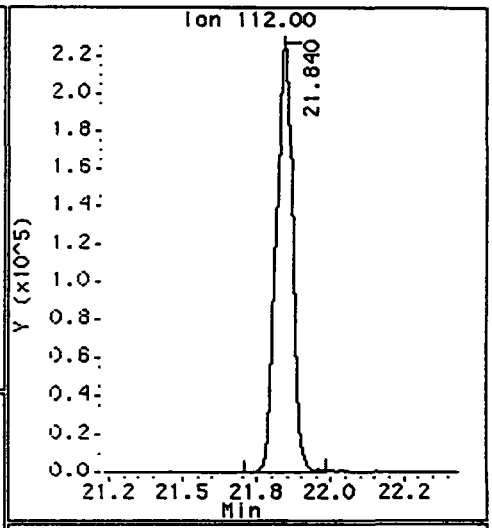
59 Chlorobenzene

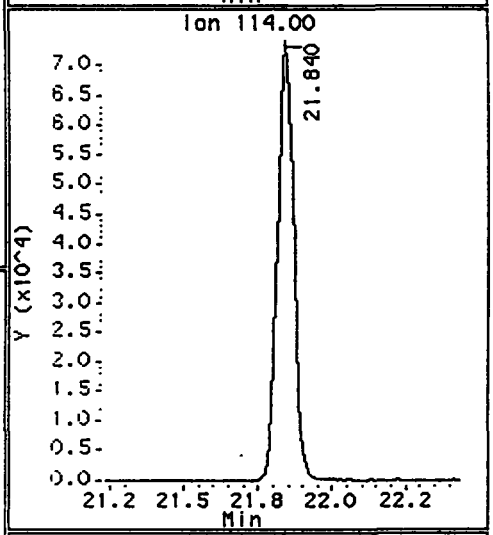


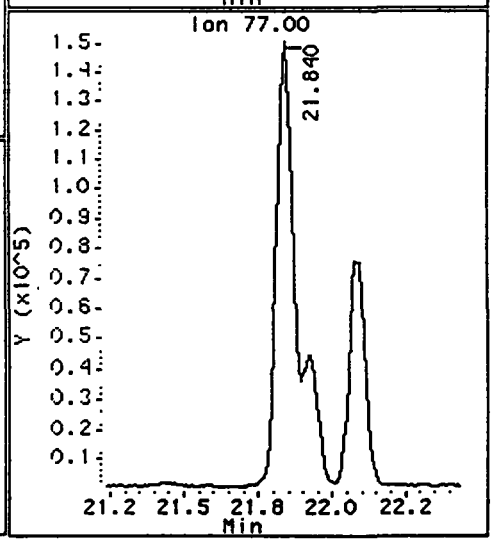












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

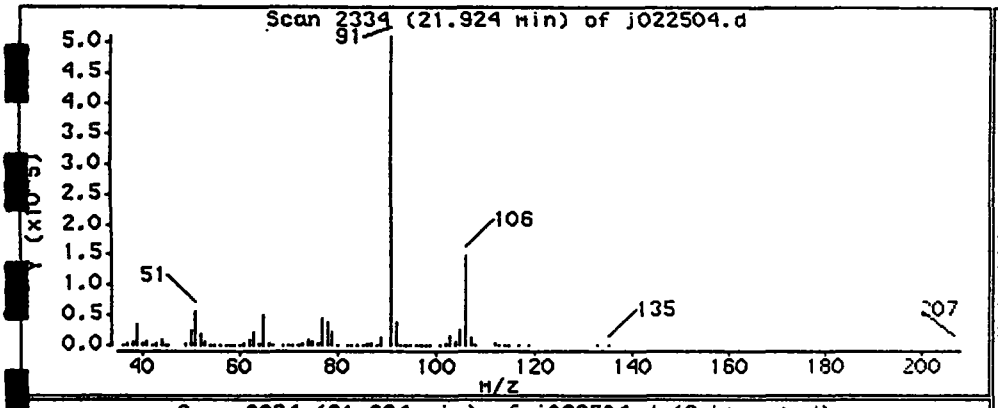
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

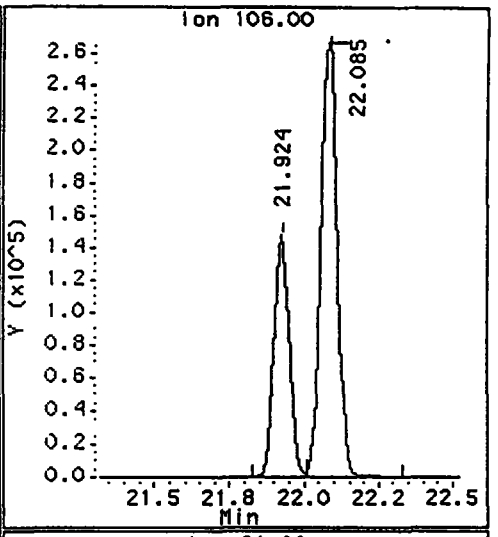
Operator: MH

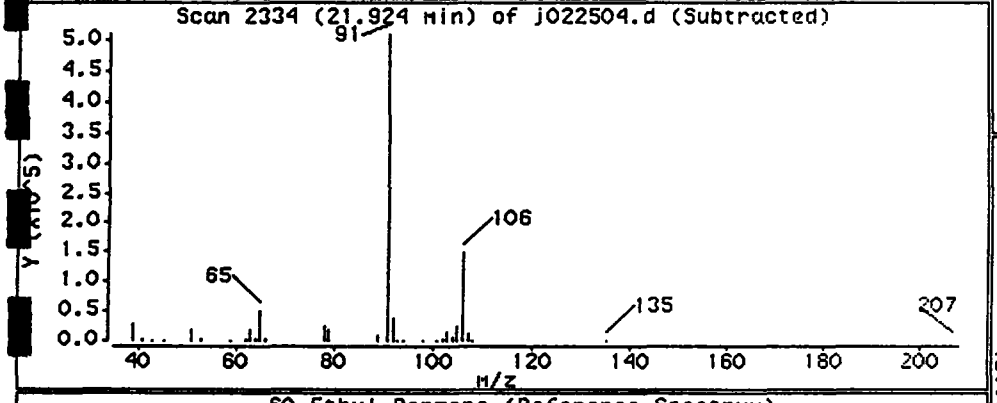
Column phase: RTx-624

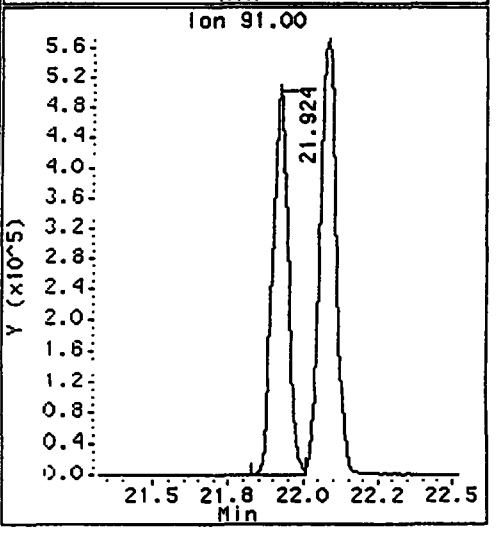
Column diameter: 0.58

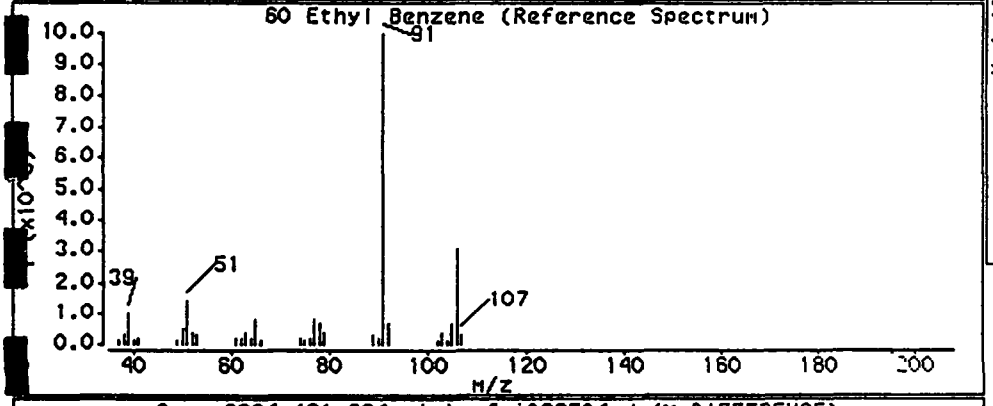
60 Ethyl Benzene

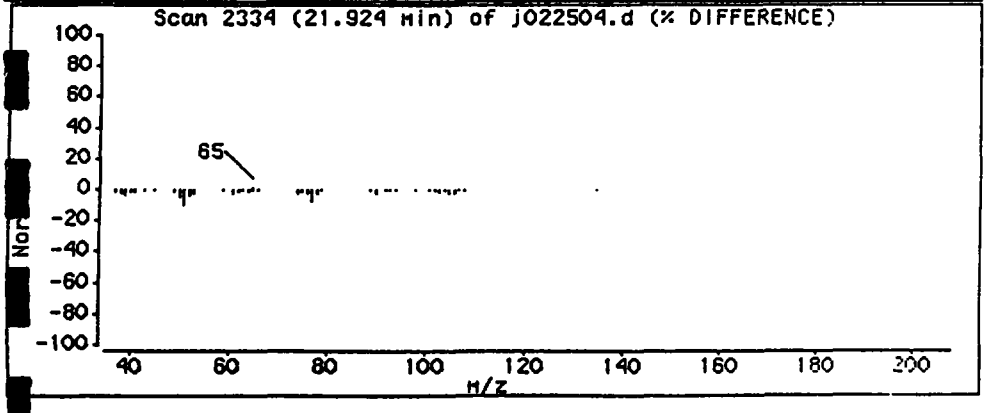












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

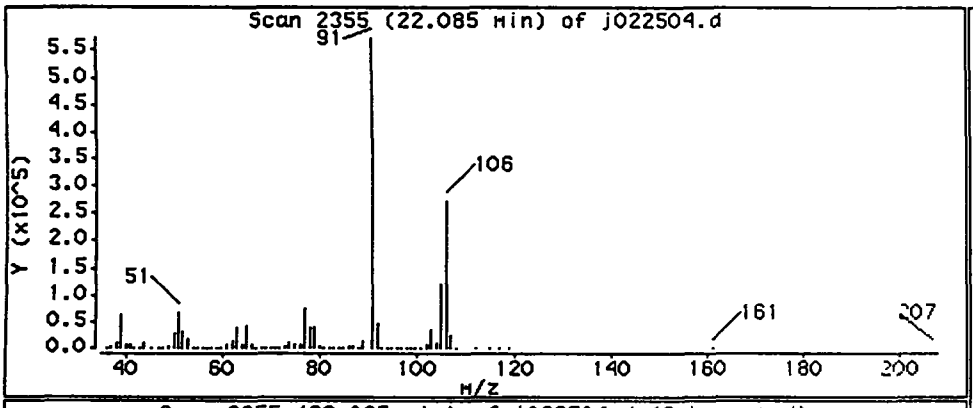
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

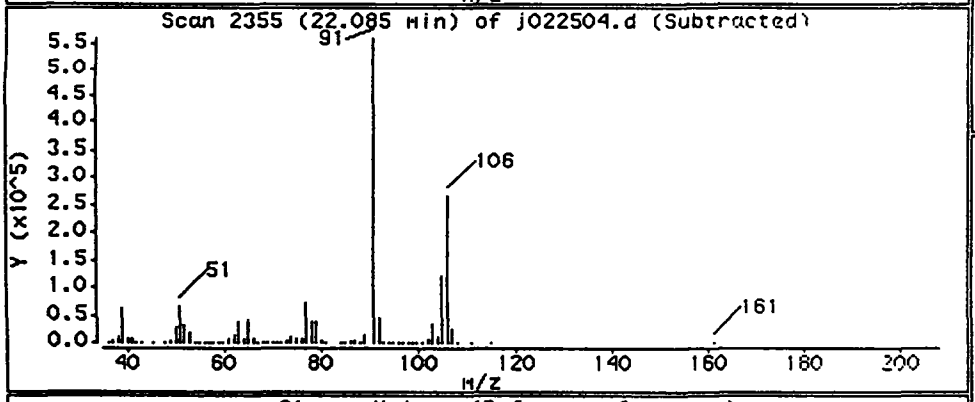
Operator: MH

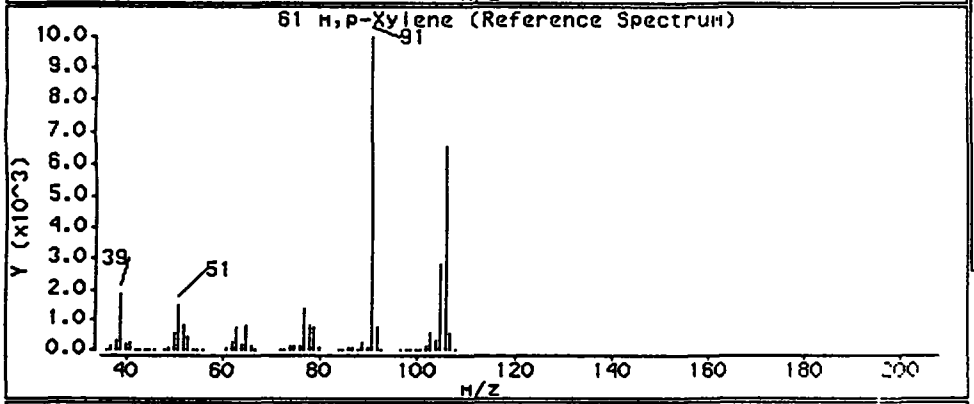
Column phase: RTx-624

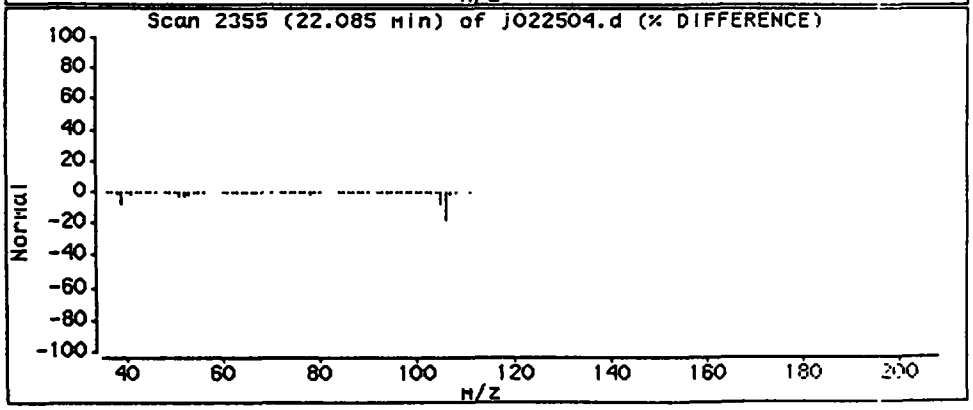
Column diameter: 0.58

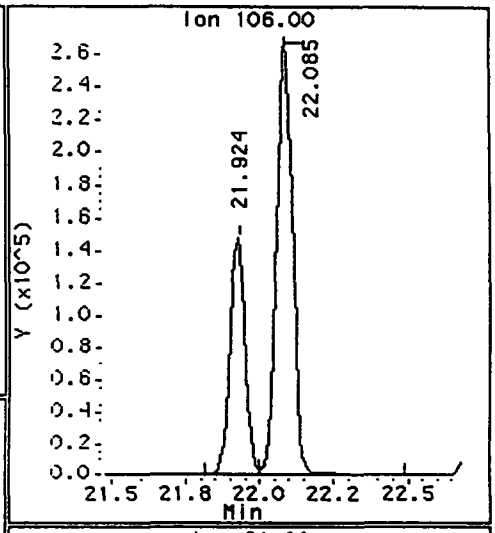
61 m,p-Xylene

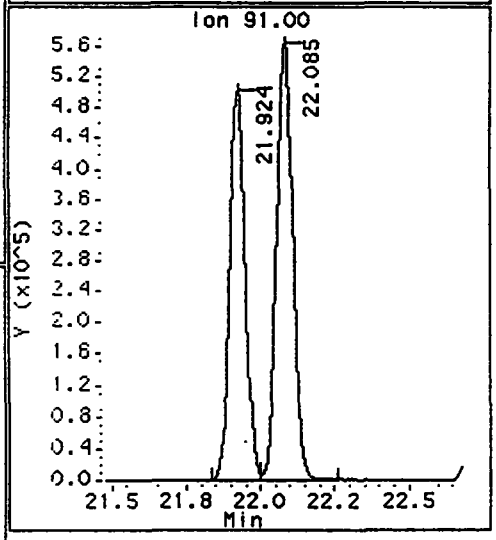












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

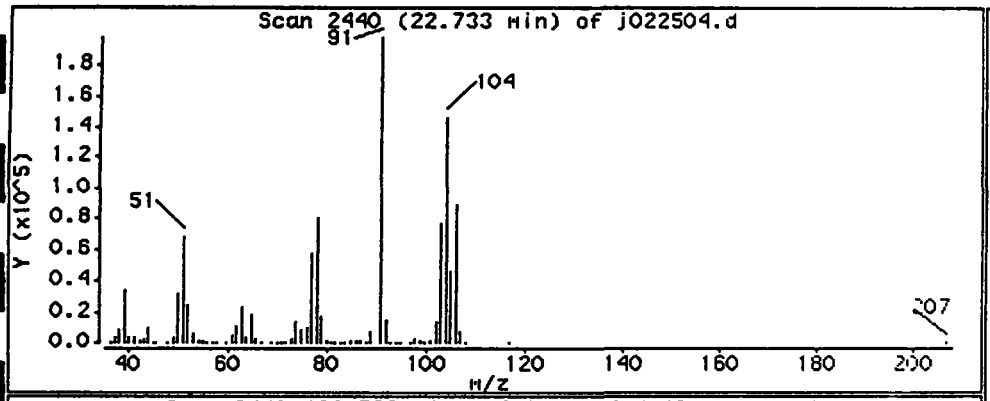
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

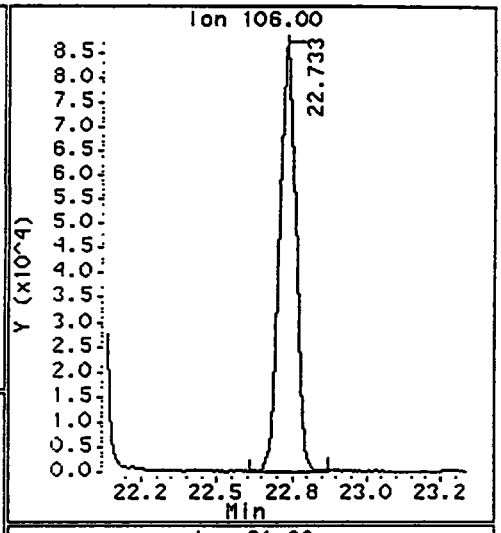
Operator: MH

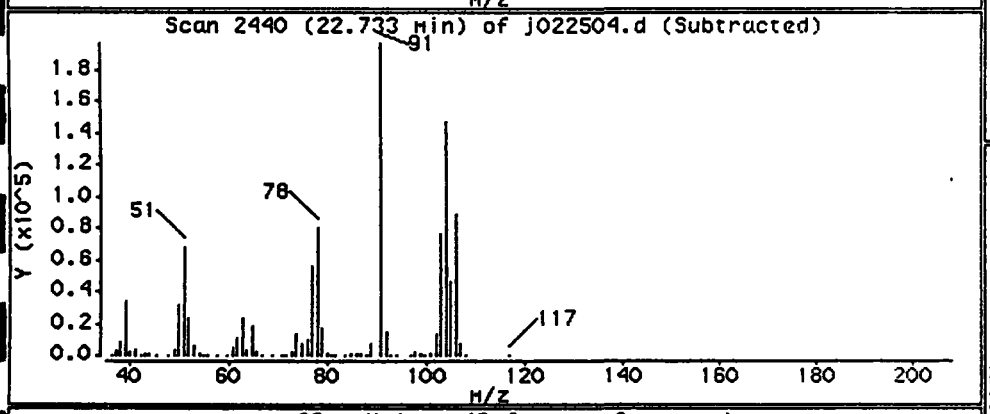
Column phase: RTx-624

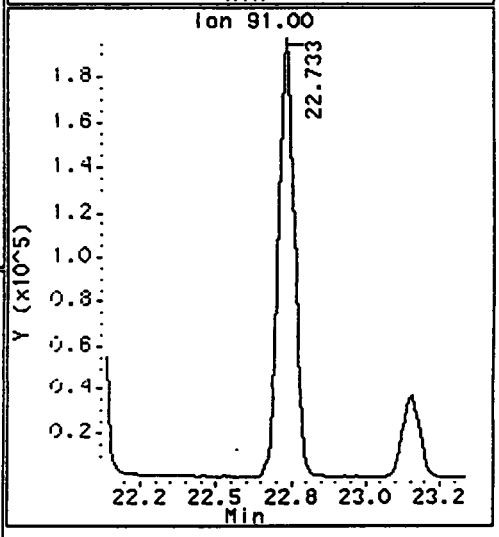
Column diameter: 0.58

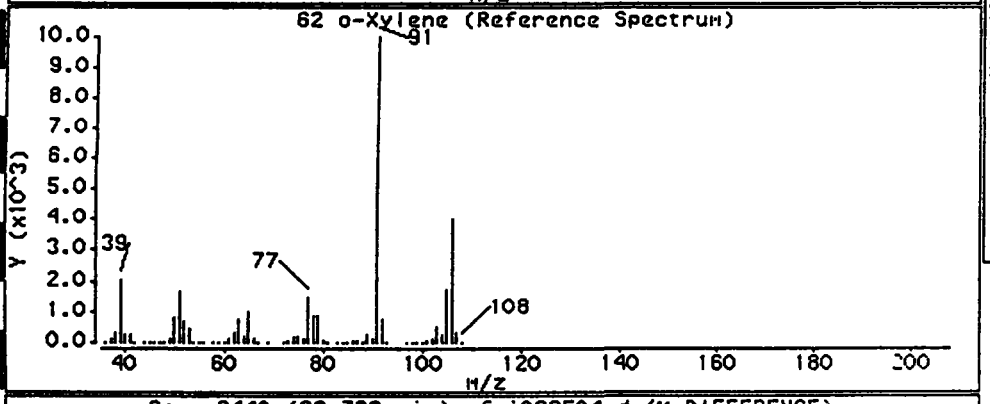
62 o-Xylene

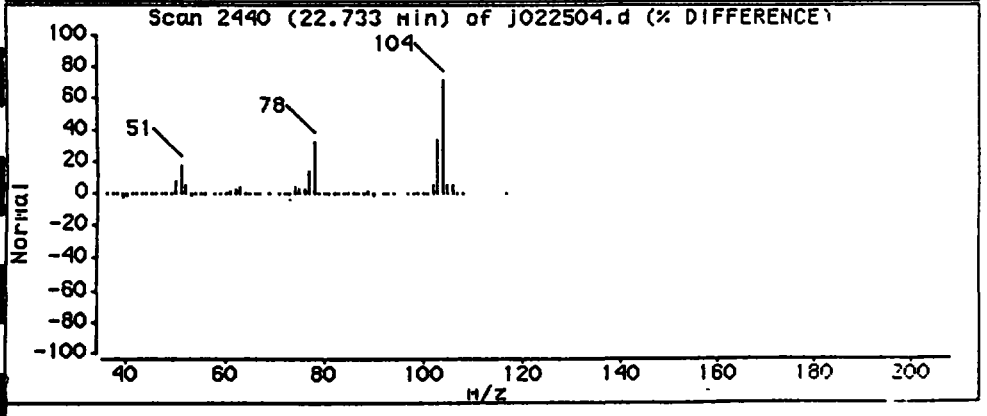












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

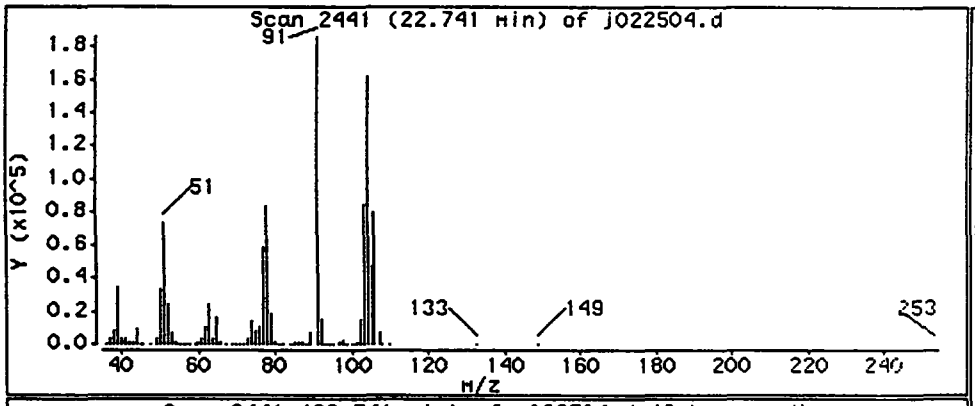
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

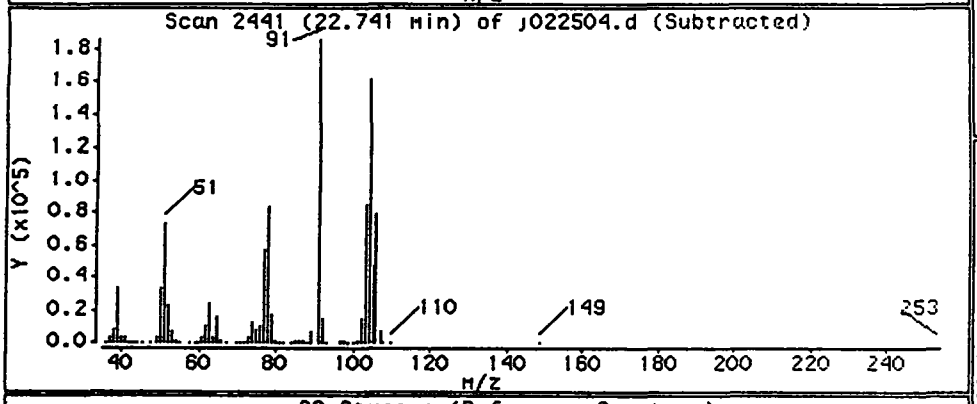
Operator: MH

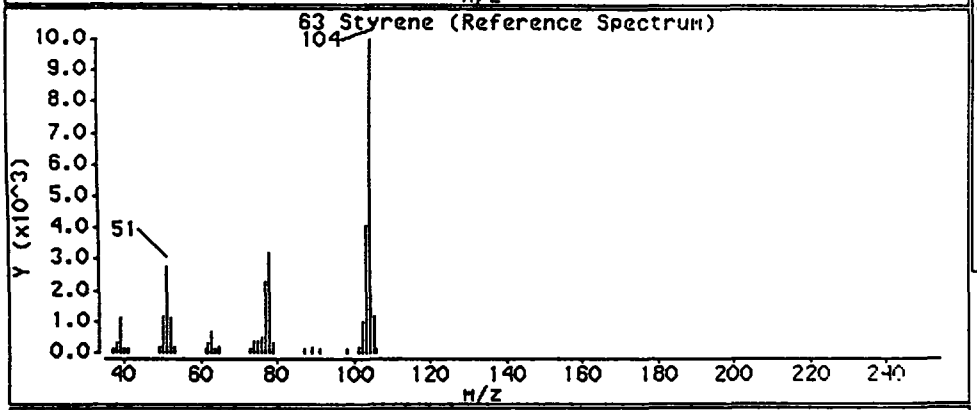
Column phase: RTx-624

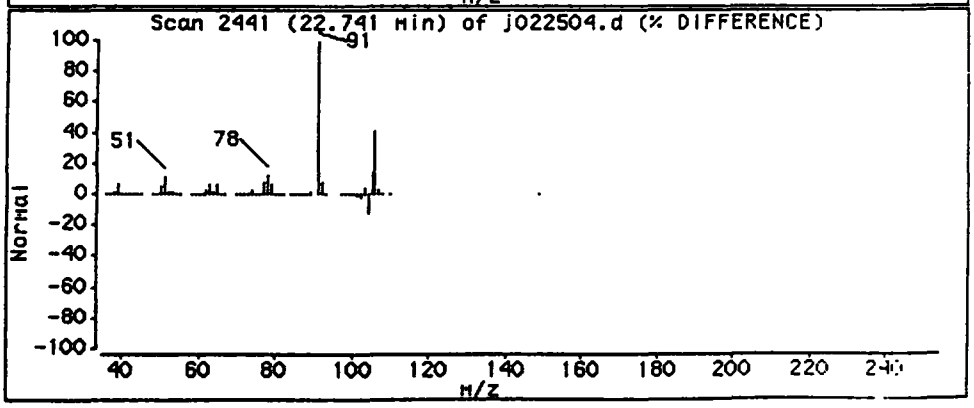
Column diameter: 0.58

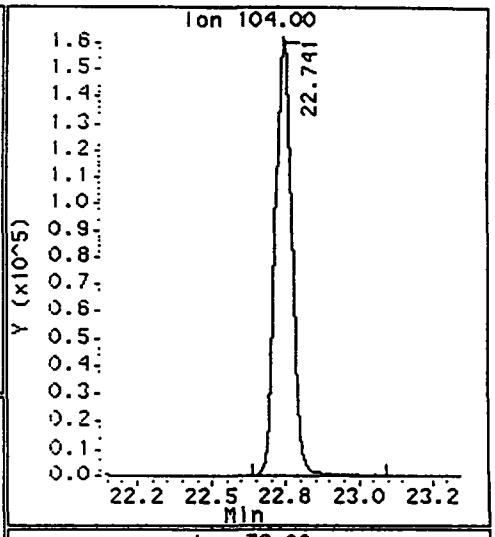
63 Styrene

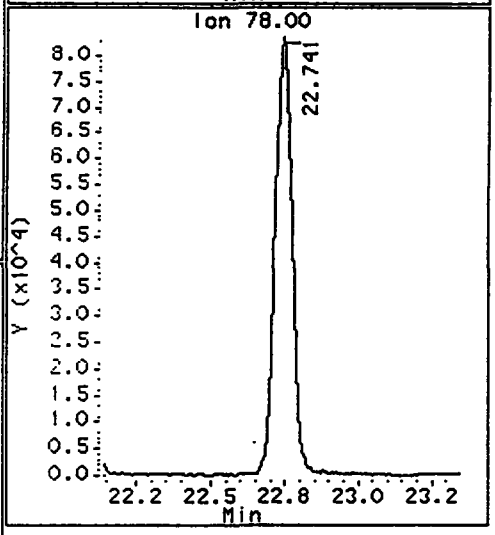












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

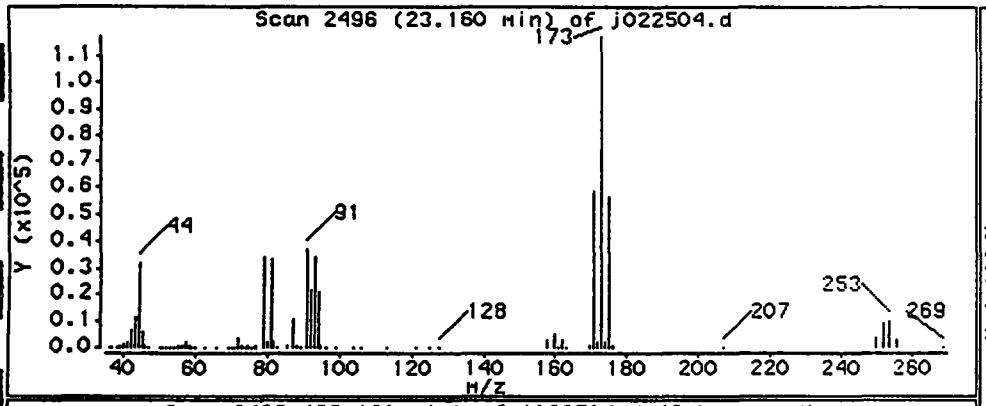
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

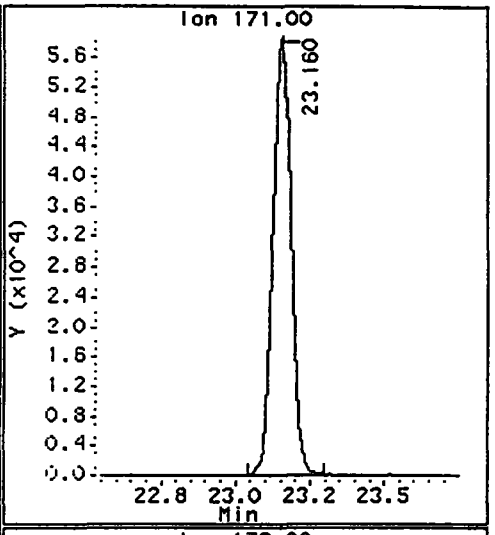
Operator: MH

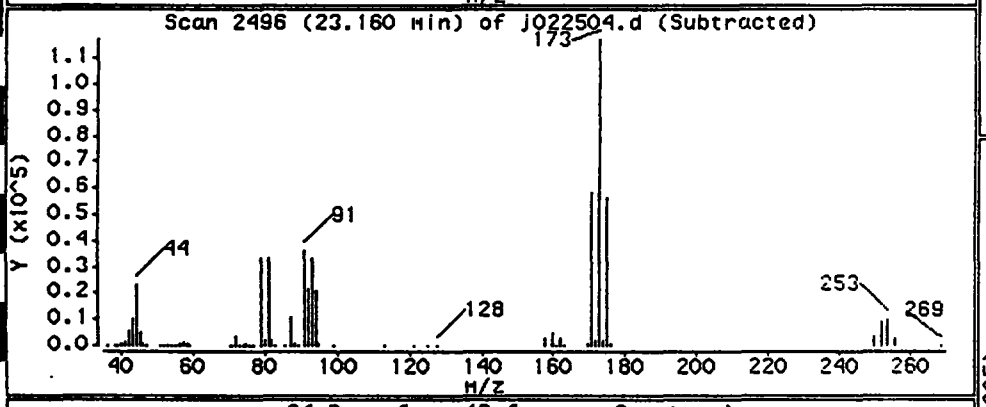
Column phase: RTx-624

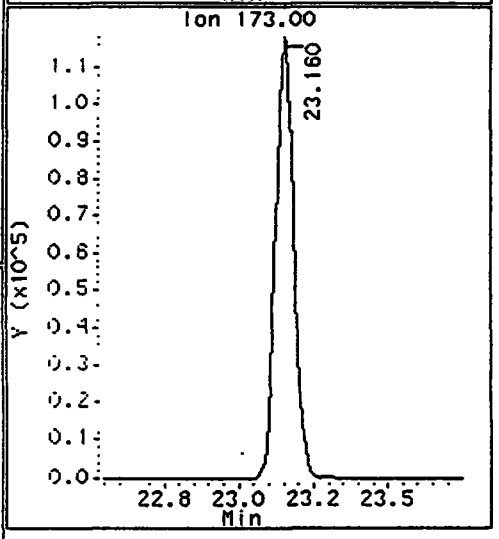
Column diameter: 0.58

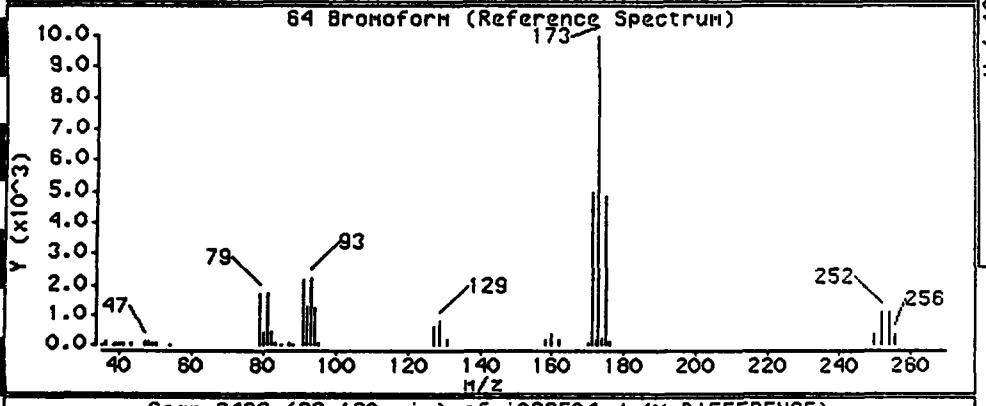
64 Bromoform

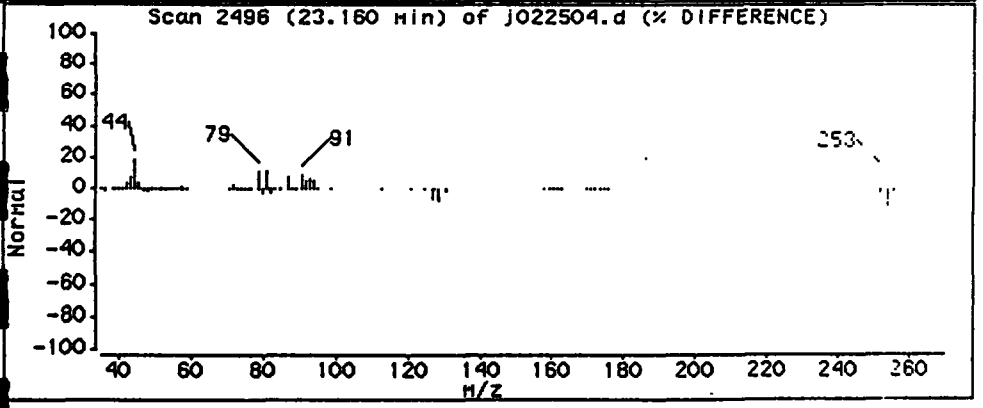












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Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

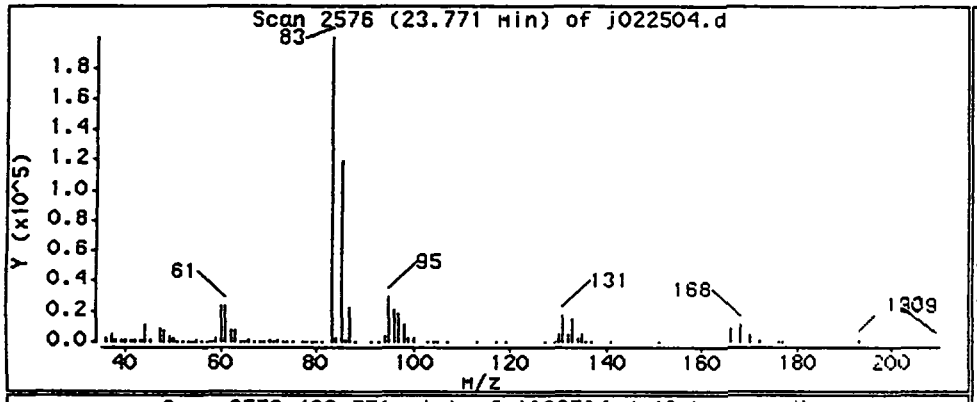
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

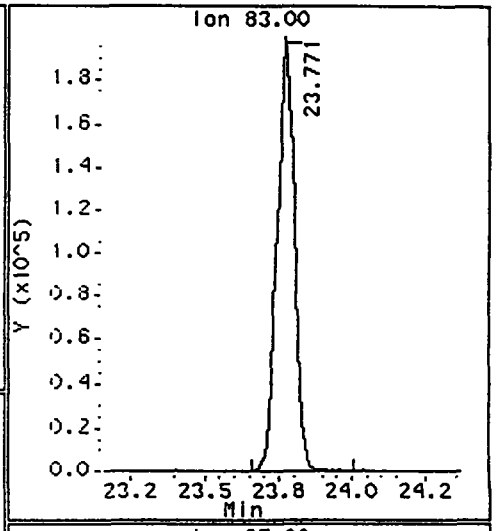
Operator: MH

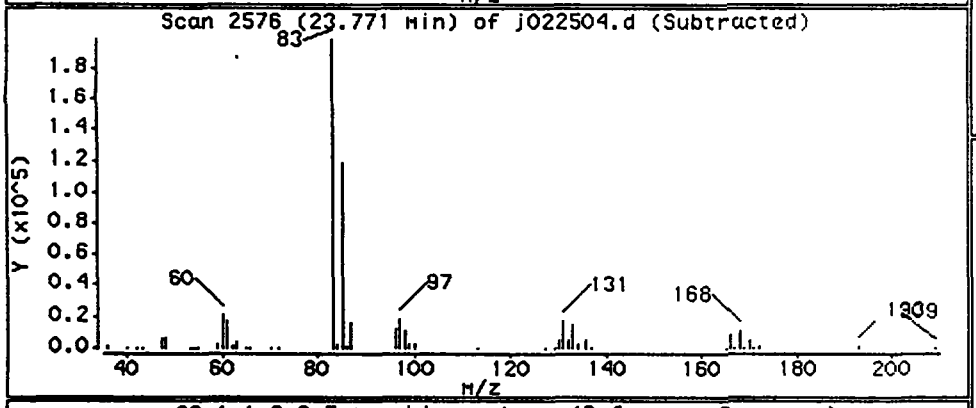
Column phase: RTx-624

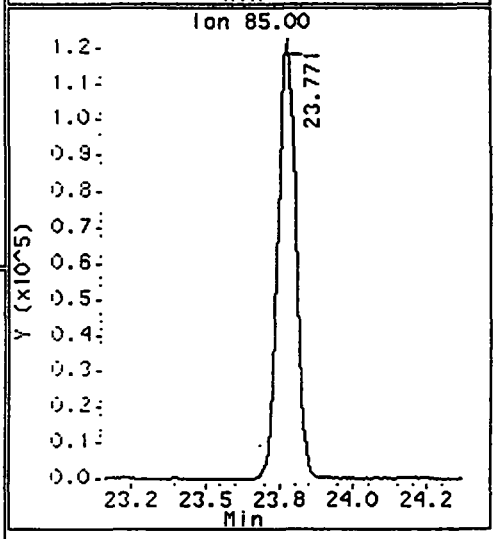
Column diameter: 0.58

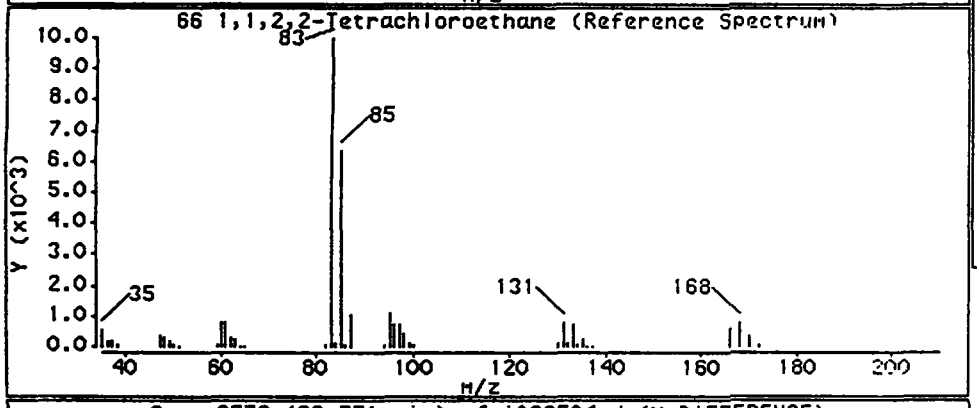
66 1,1,2,2-Tetrachloroethane

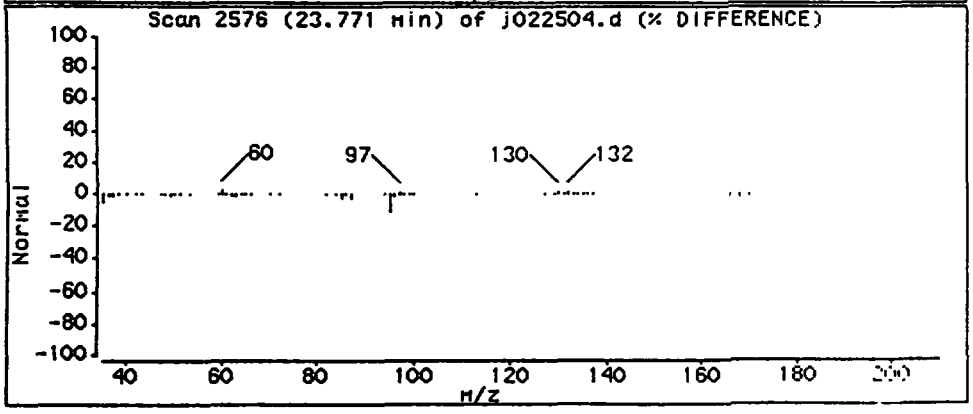












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

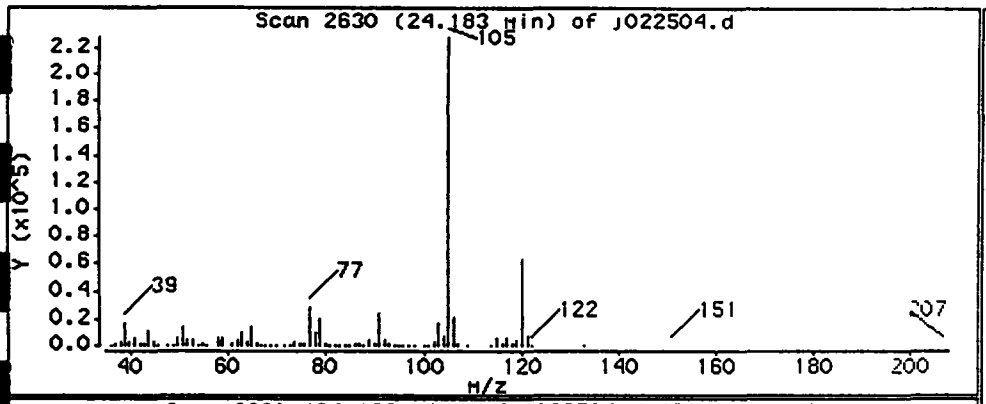
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

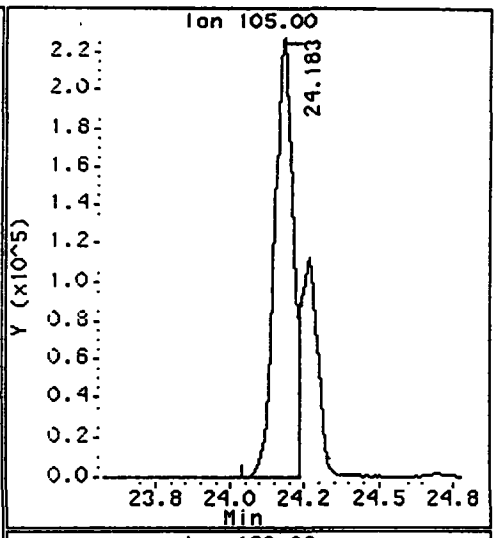
Operator: MH

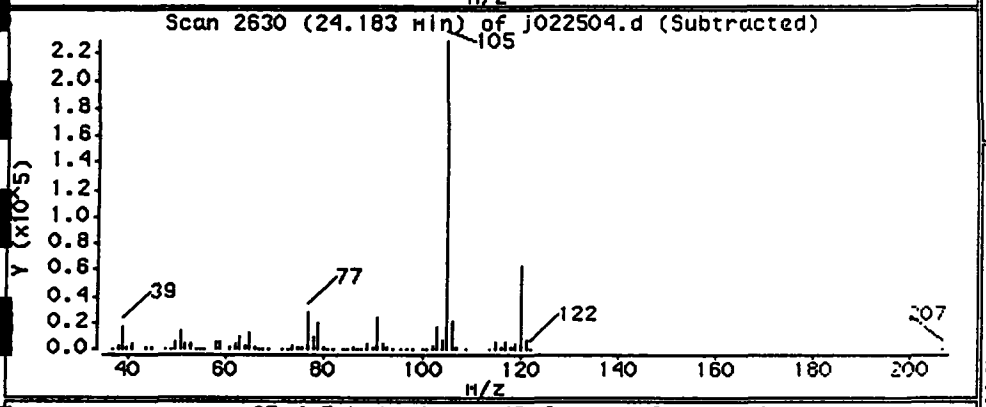
Column phase: RTx-624

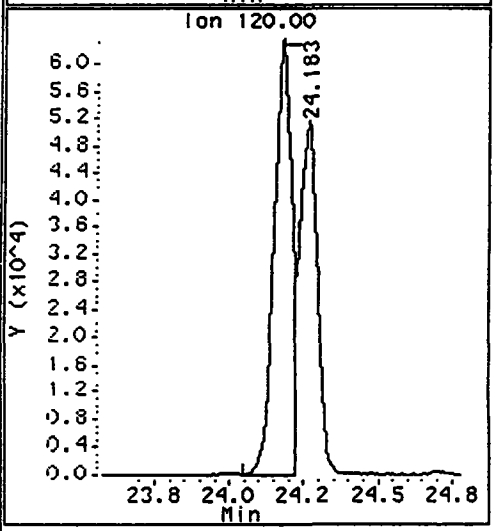
Column diameter: 0.58

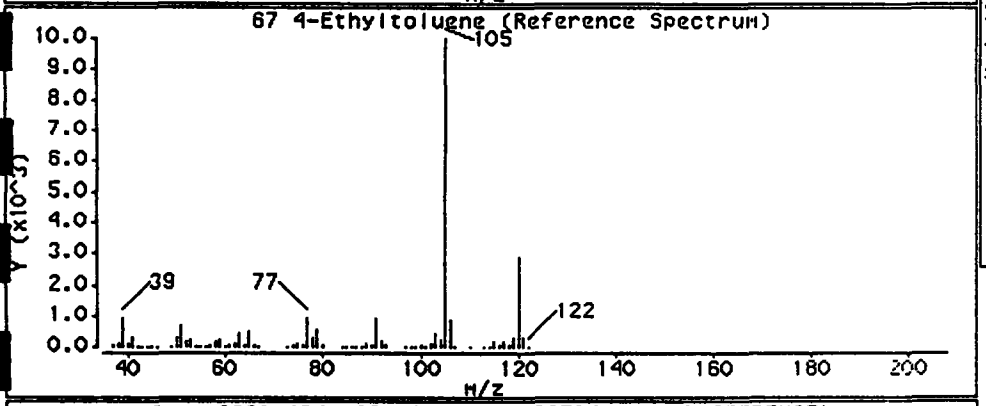
67 4-Ethyltoluene

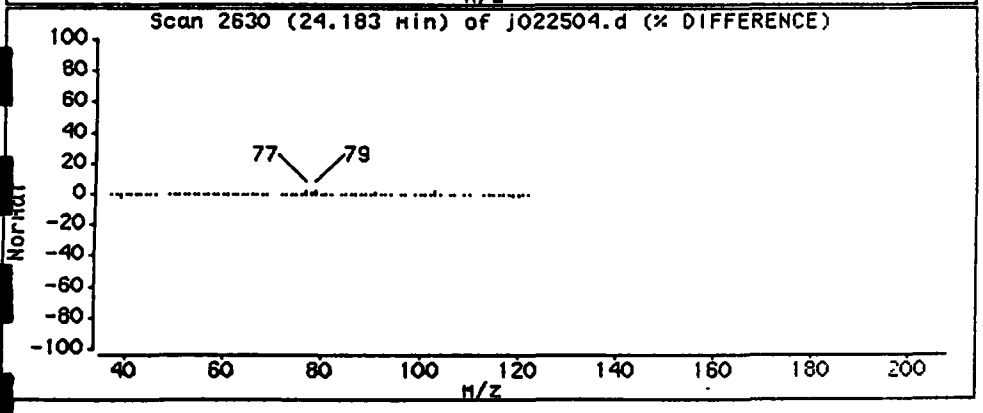












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

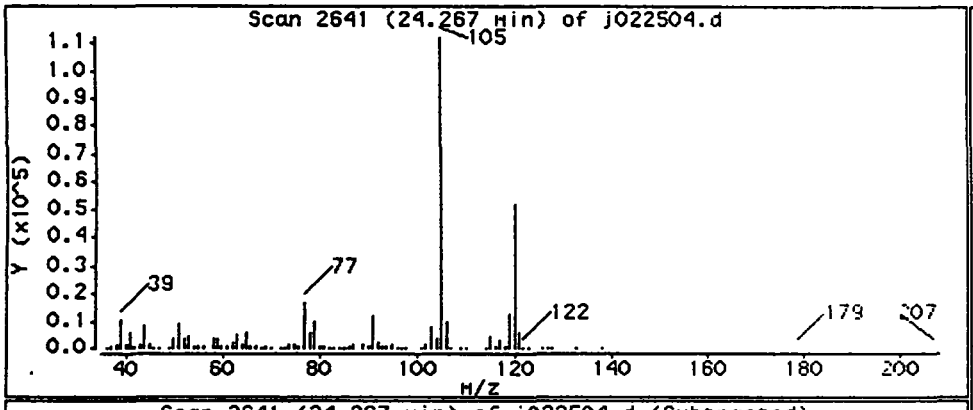
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

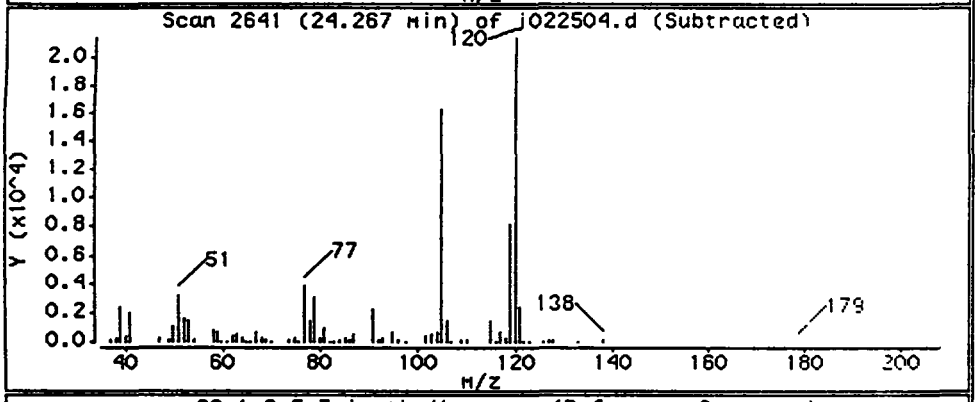
Operator: MH

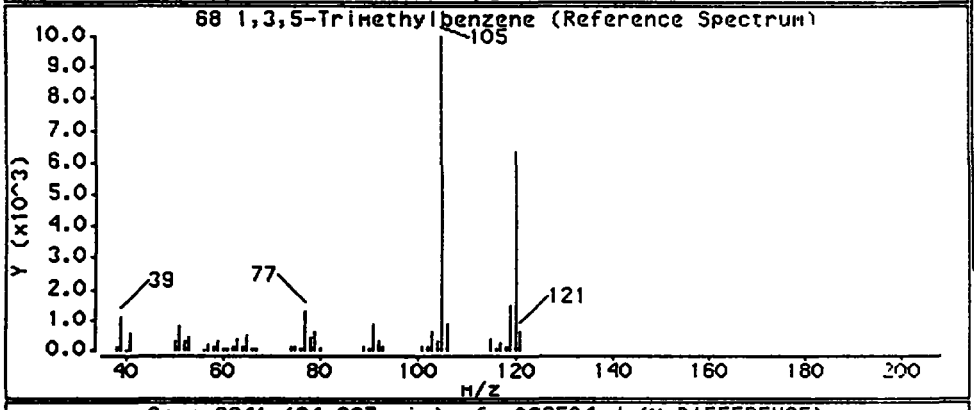
Column phase: RTx-624

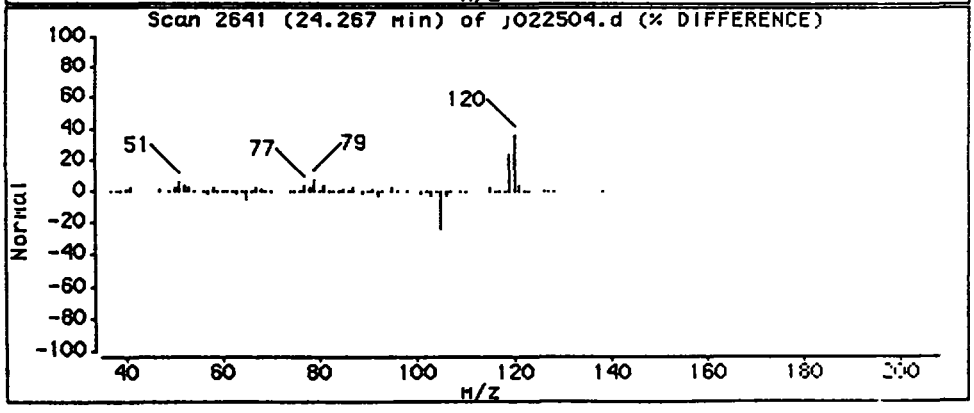
Column diameter: 0.58

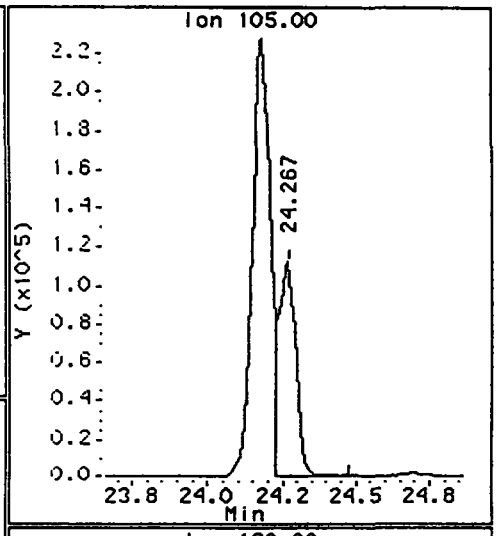
68 1,3,5-Trimethylbenzene

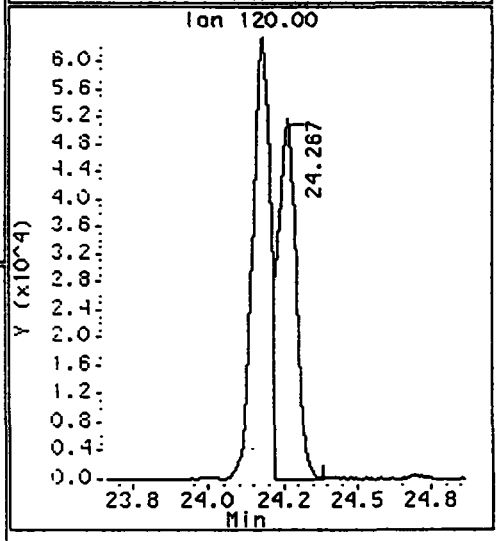












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

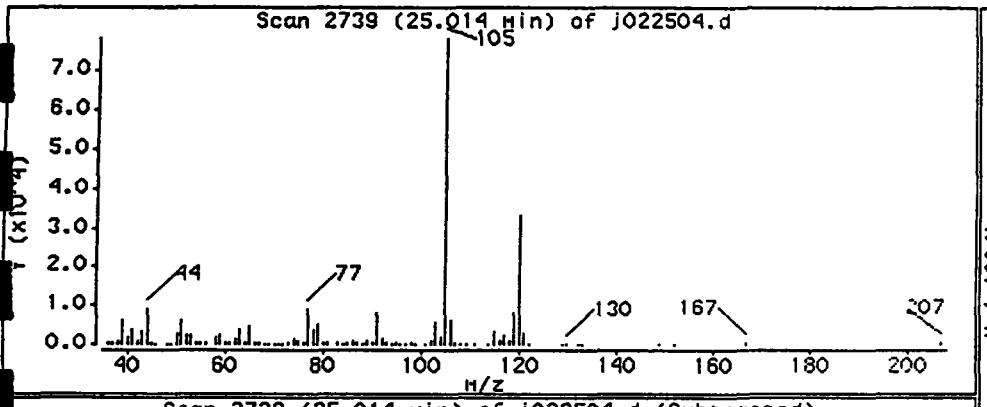
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

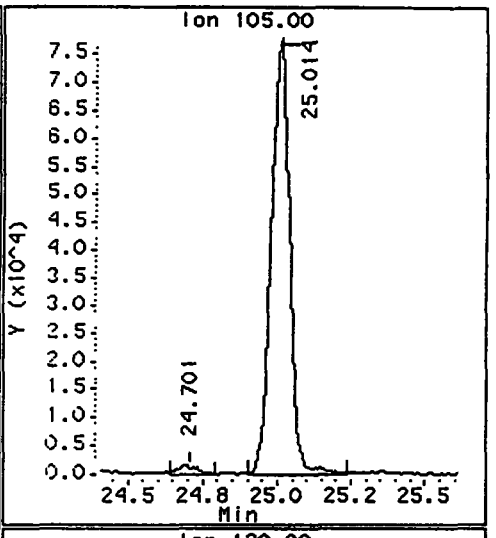
Operator: MH

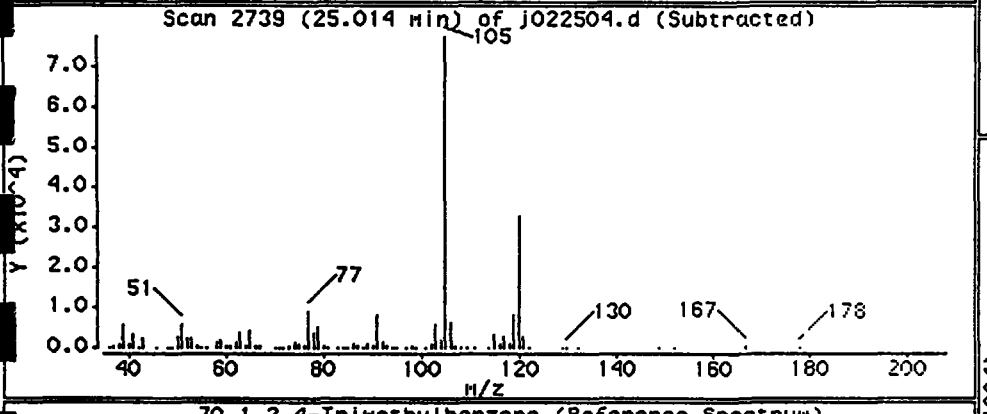
Column phase: RTx-624

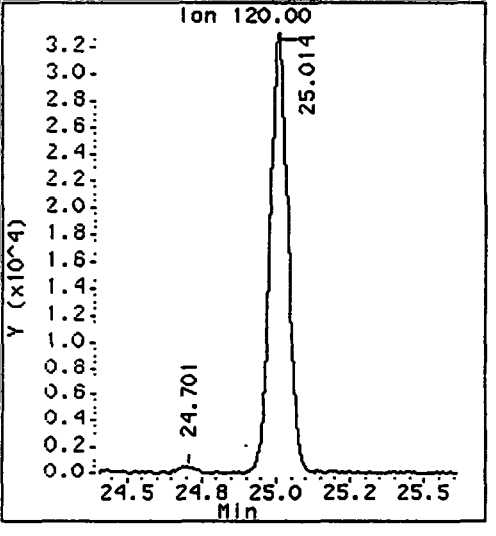
Column diameter: 0.58

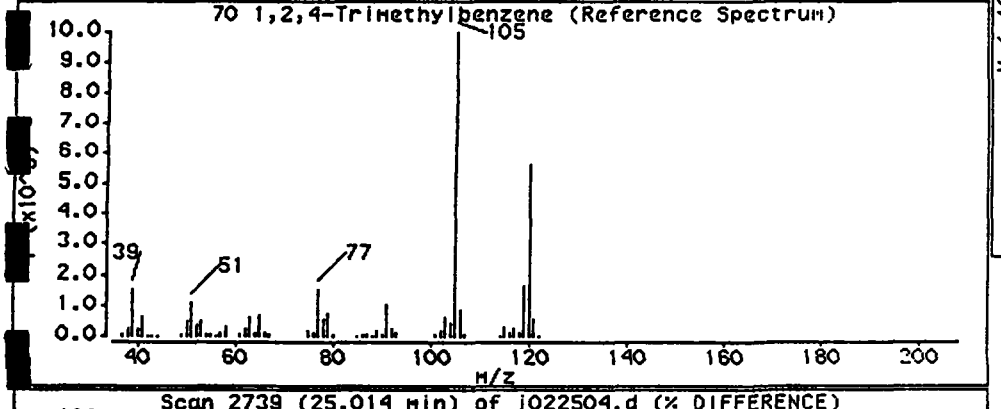
70 1,2,4-Trimethylbenzene

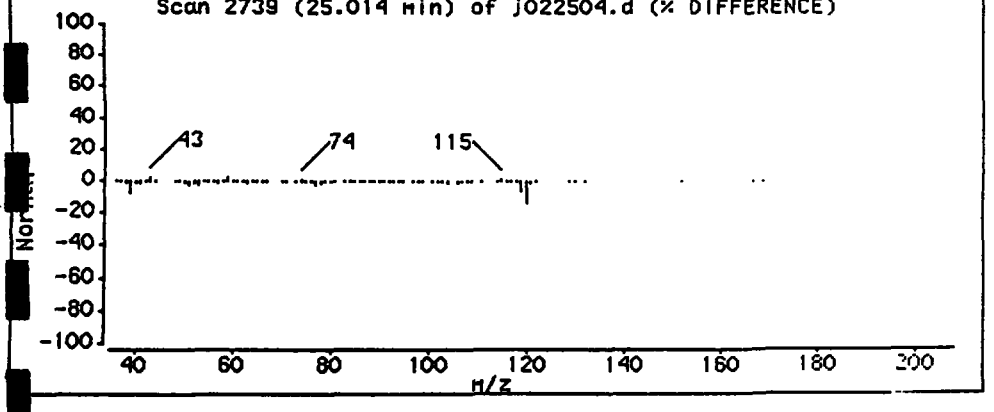












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

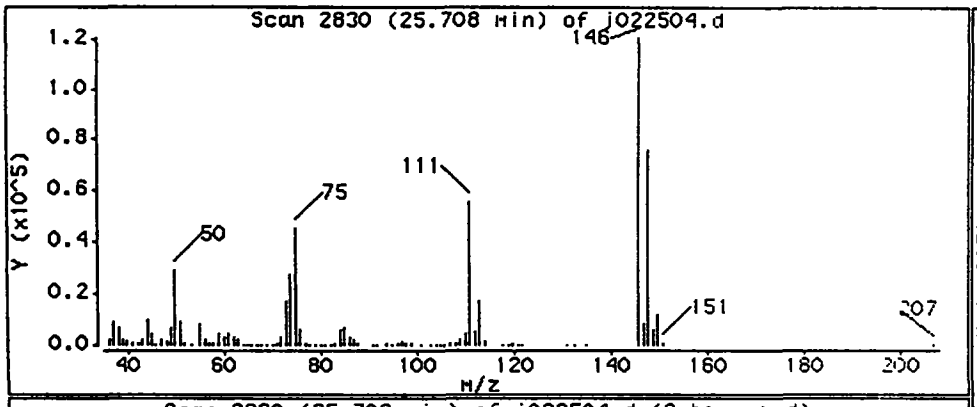
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

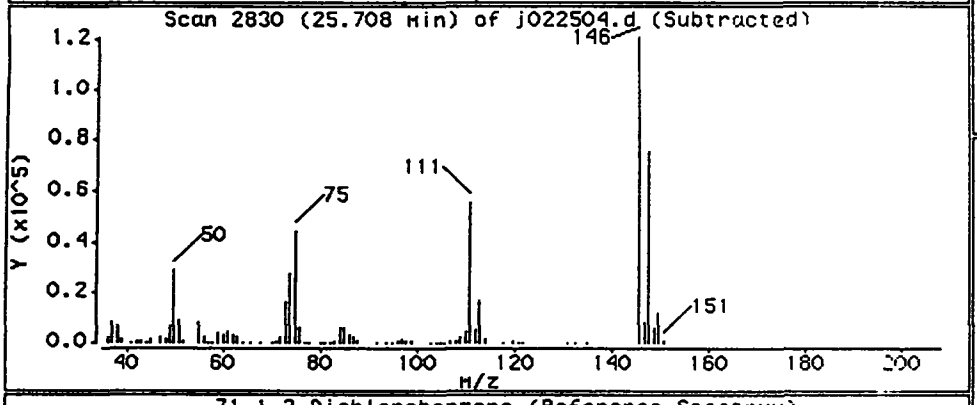
Operator: MH

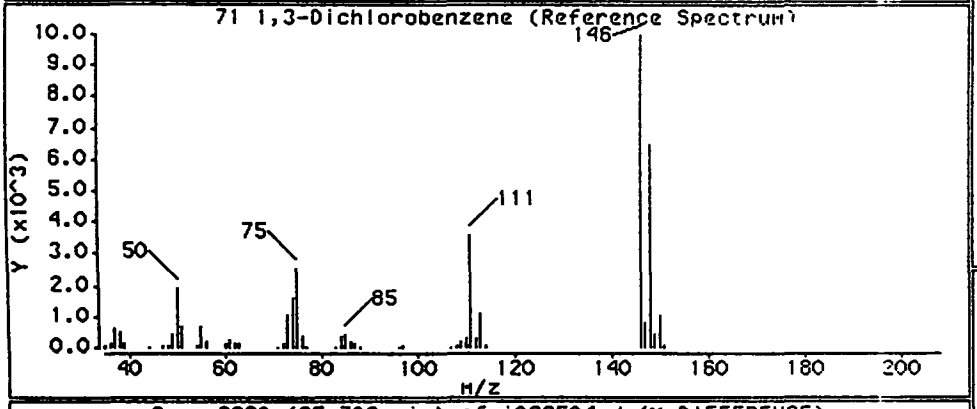
Column phase: RTx-624

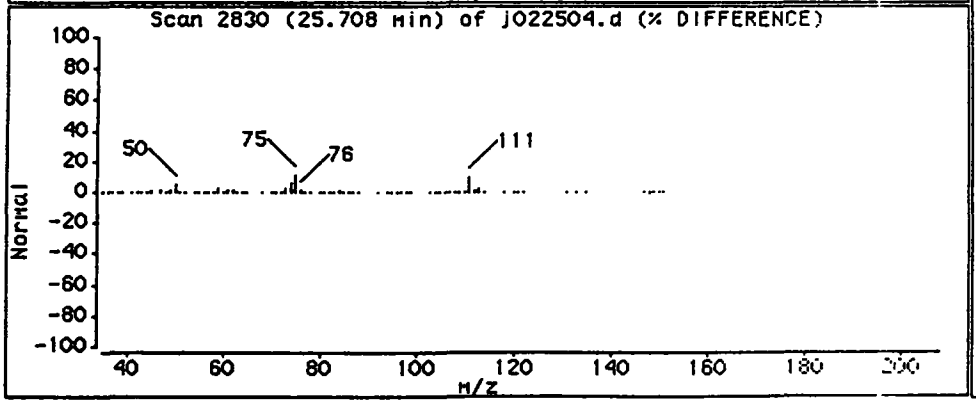
Column diameter: 0.58

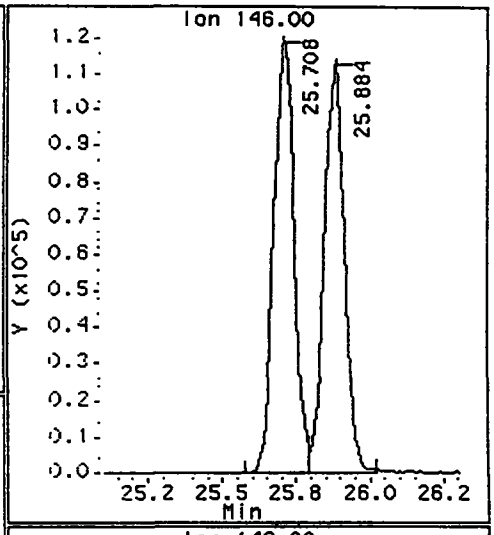
71 1,3-Dichlorobenzene

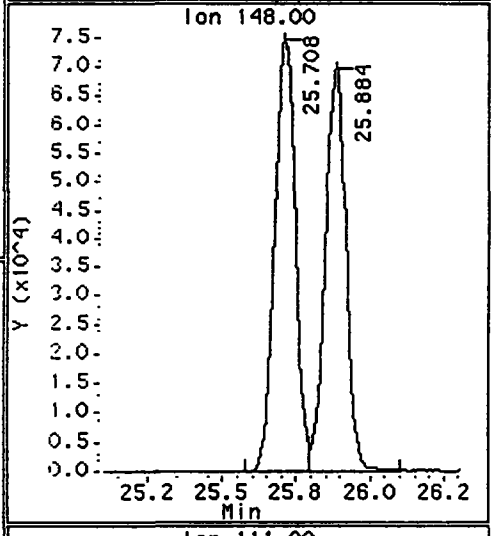


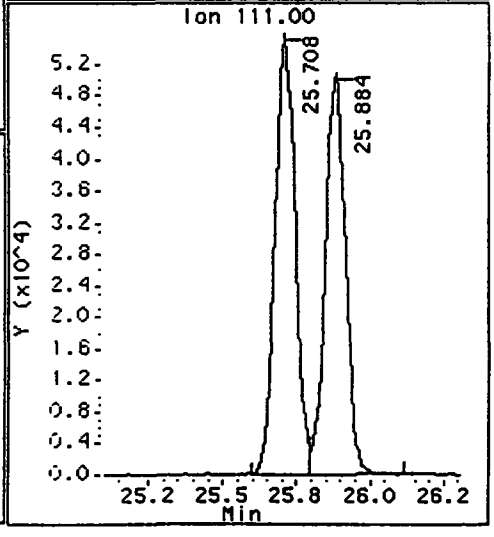












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

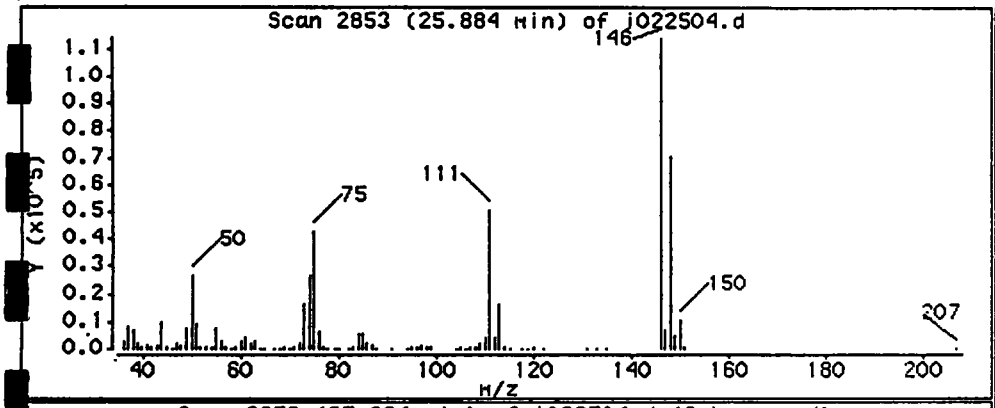
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

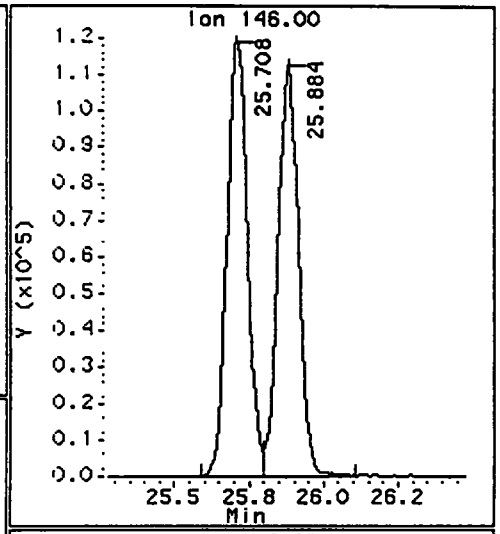
Operator: MH

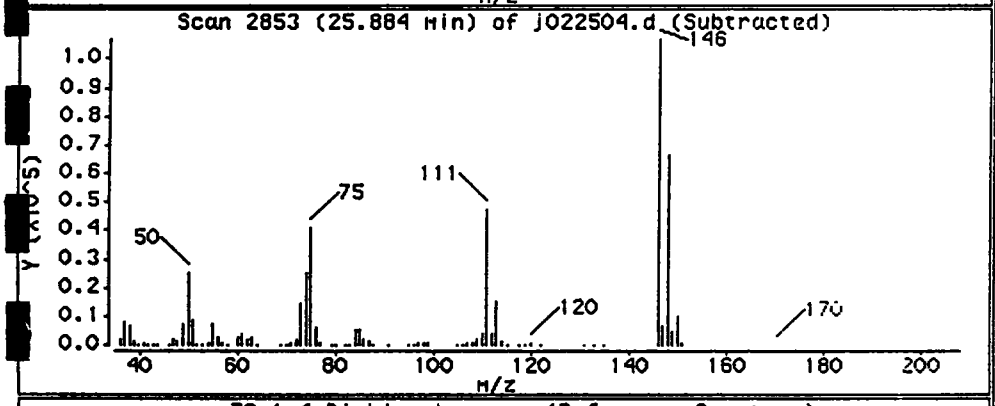
Column phase: RTx-624

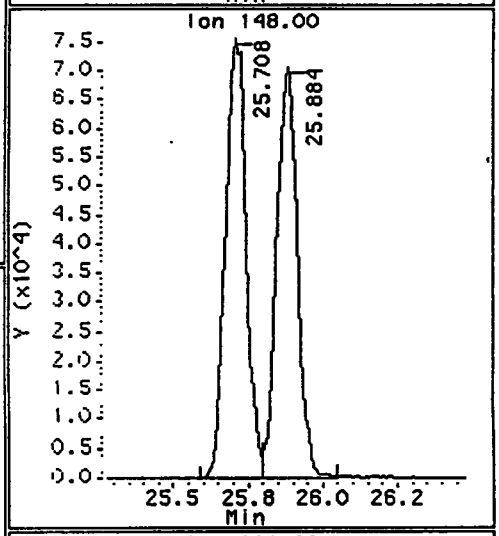
Column diameter: 0.58

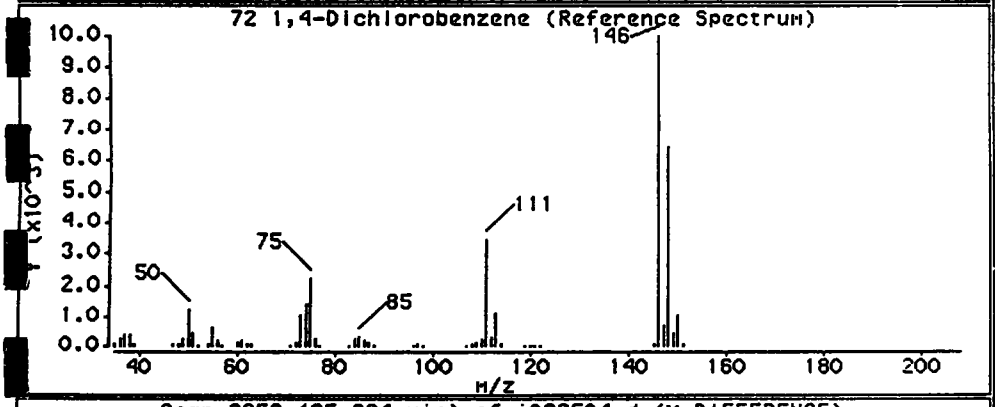
72 1,4-Dichlorobenzene

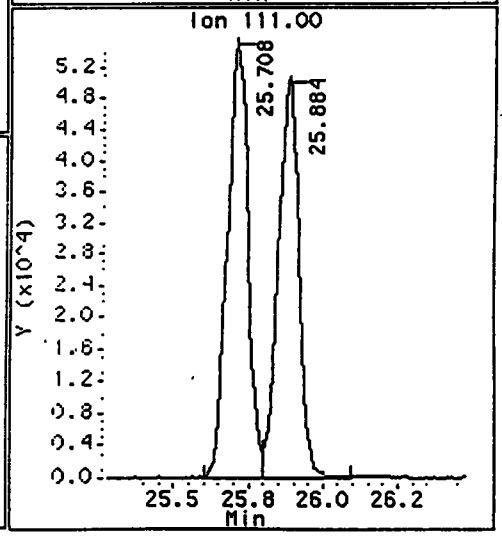












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

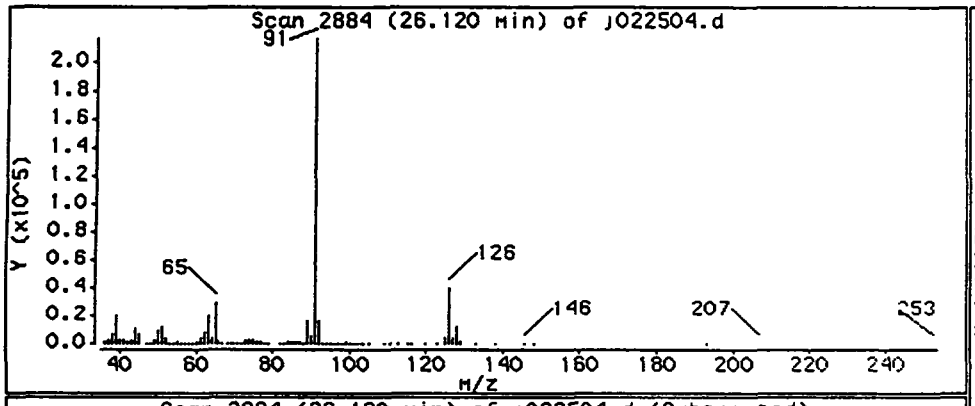
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

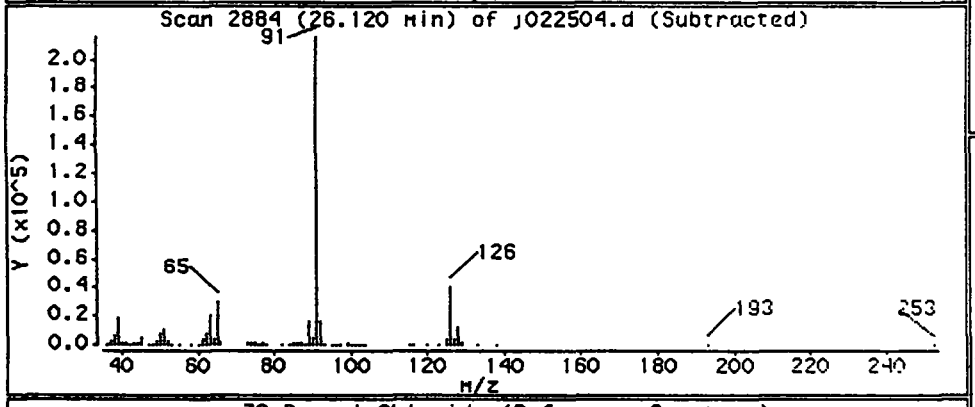
Operator: MH

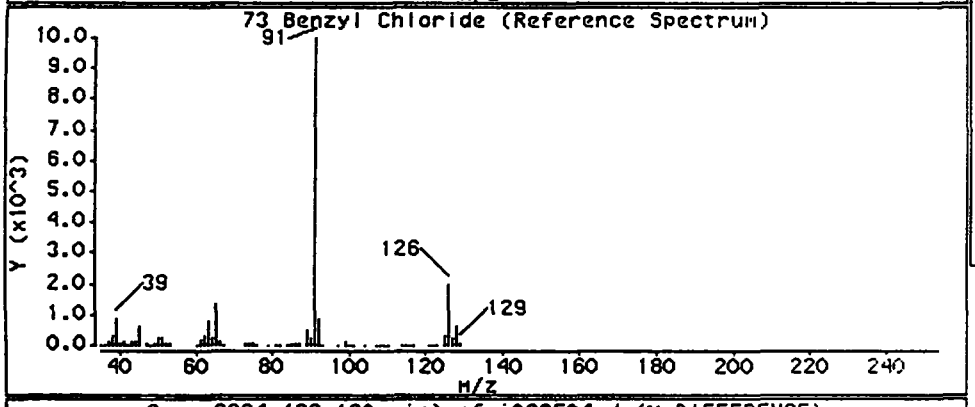
Column phase: RTx-624

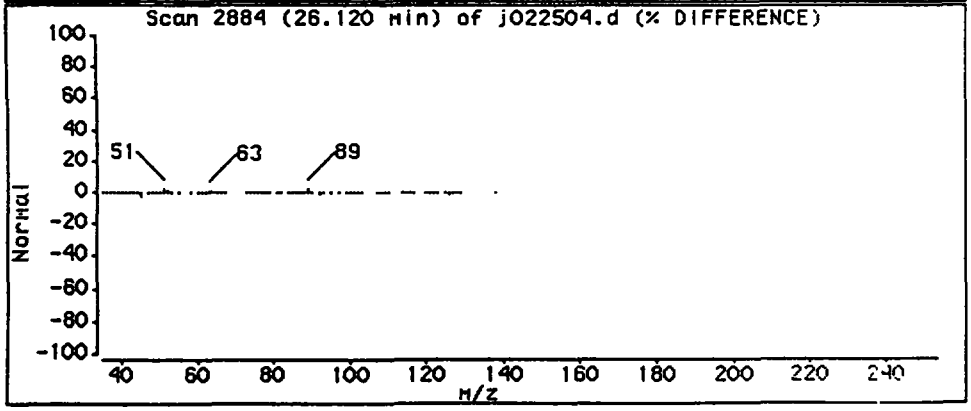
Column diameter: 0.58

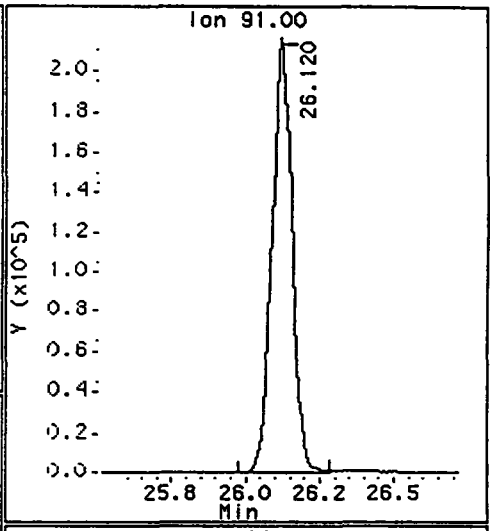
73 Benzyl Chloride

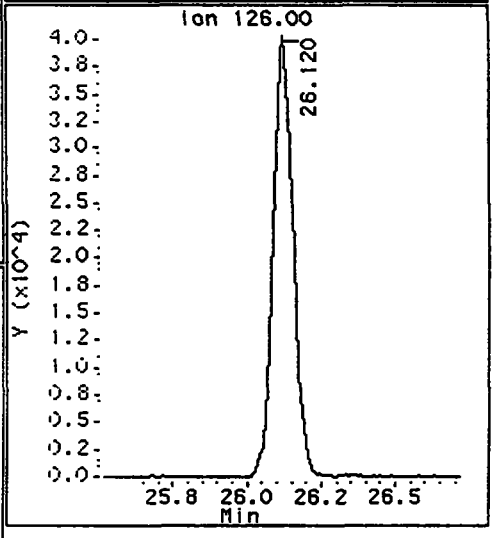












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

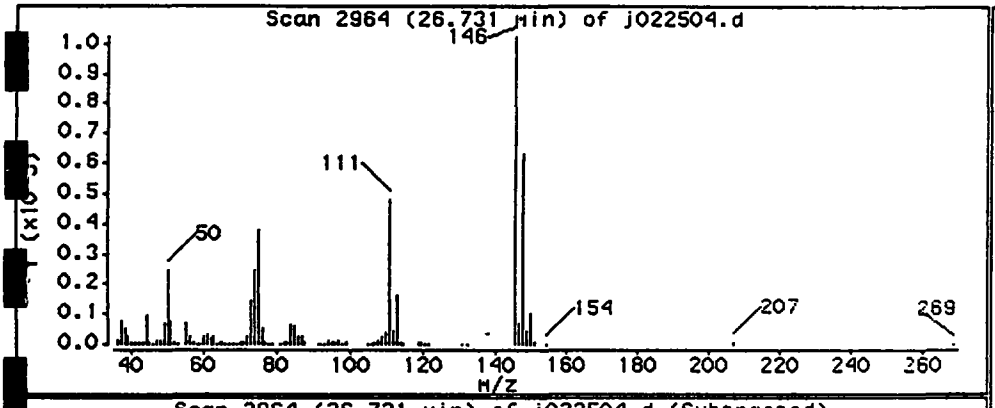
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

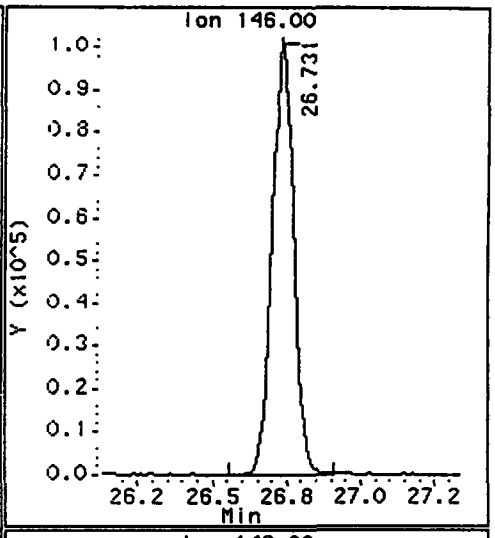
Operator: MH

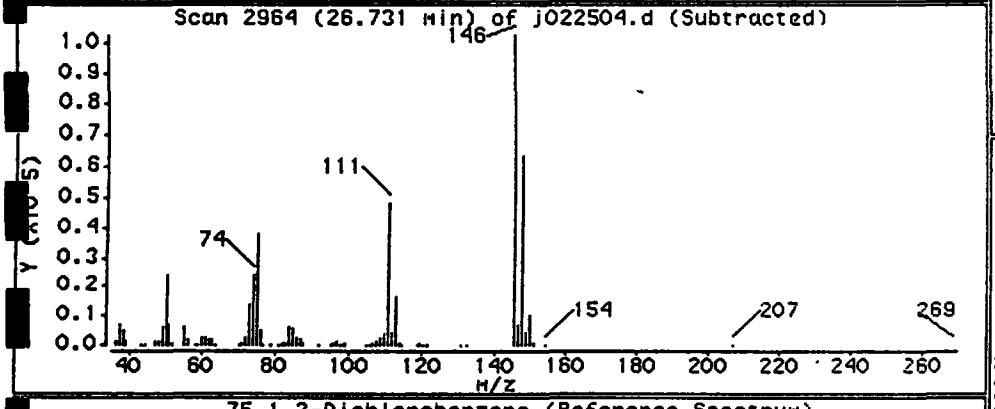
Column phase: RTx-624

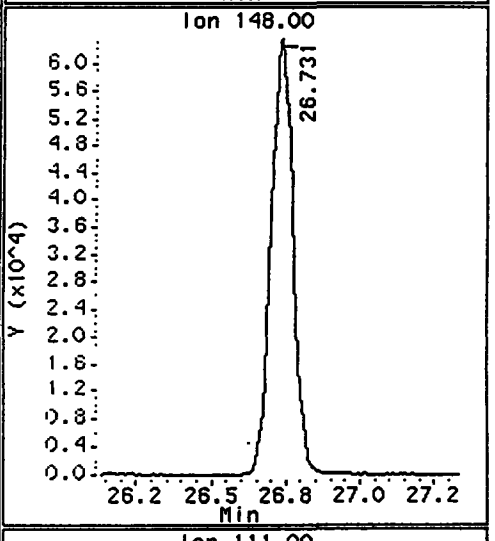
Column diameter: 0.58

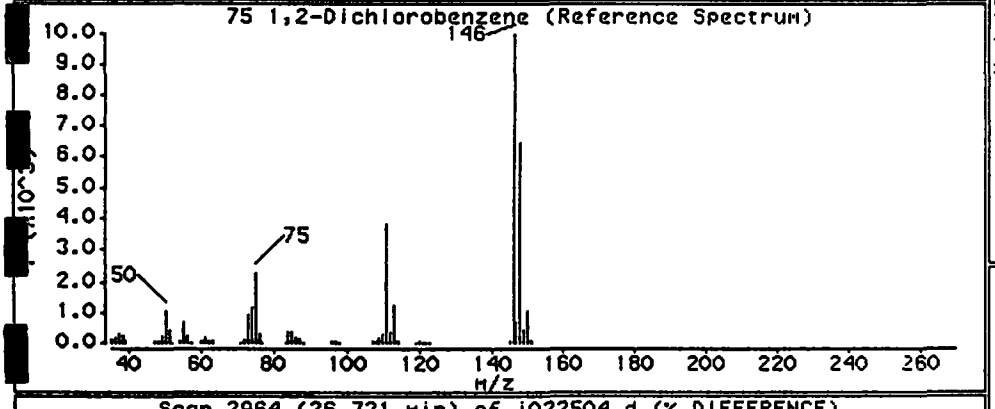
75 1,2-Dichlorobenzene

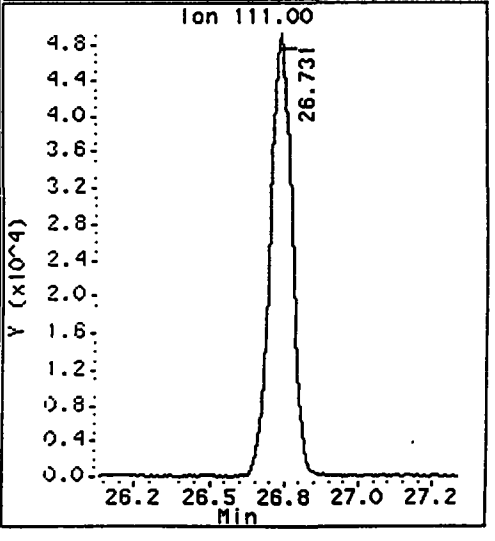


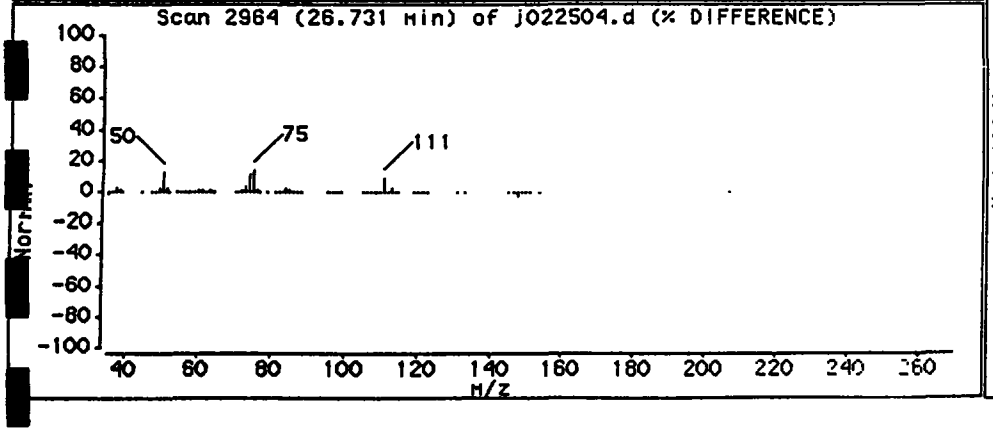












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

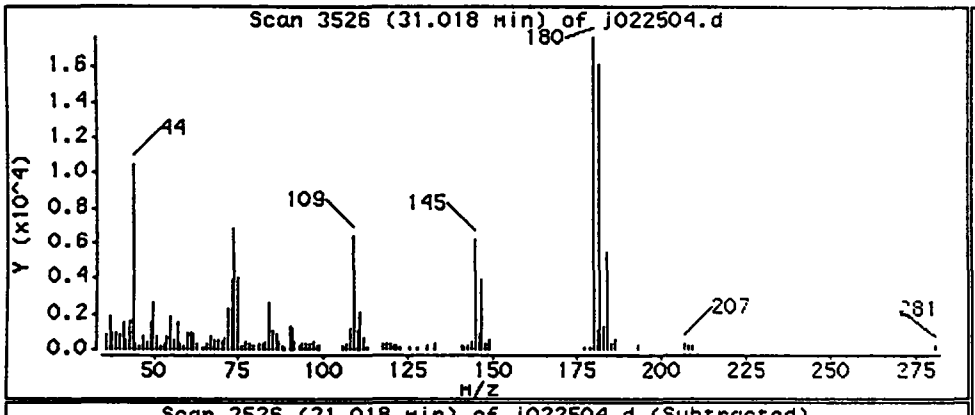
Sample Info: #296-71 T014 Std. 25mL (5ppbv)

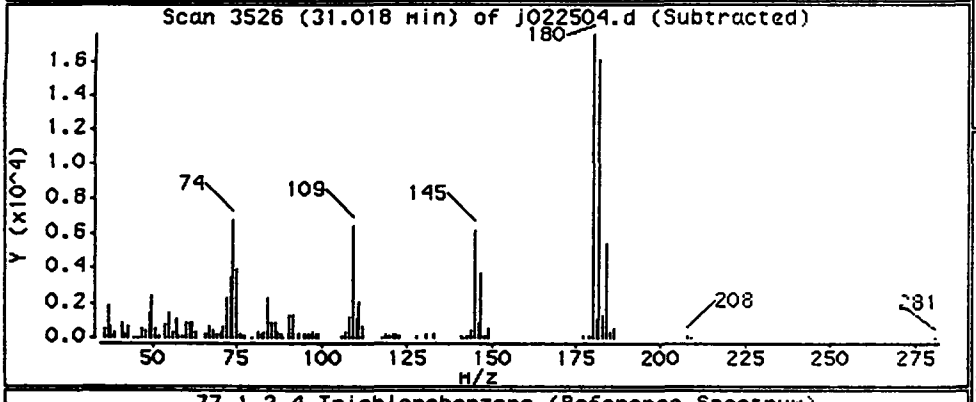
Operator: MH

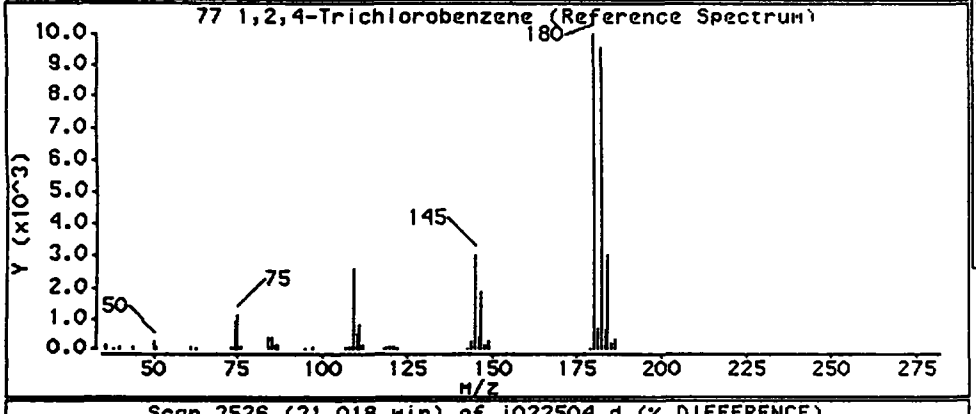
Column phase: RTx-624

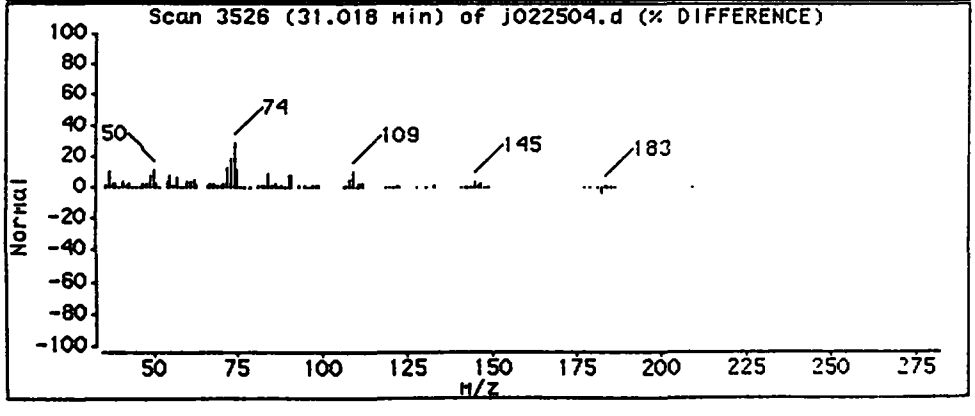
Column diameter: 0.58

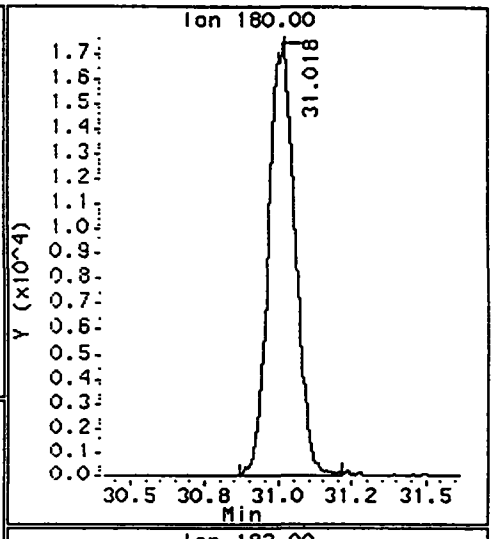
77 1,2,4-Trichlorobenzene

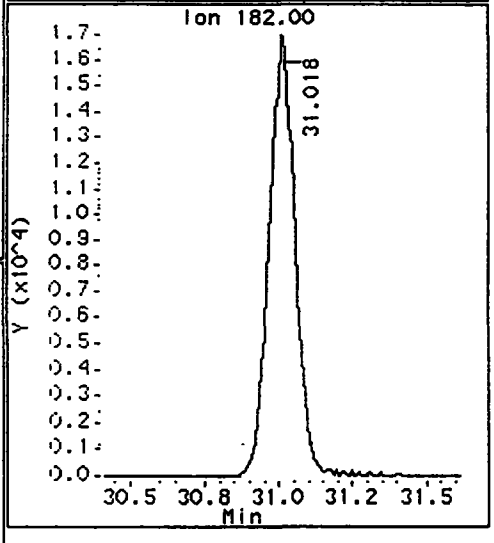












Data File: /chem/msdj.i/j-25feb.b/j022504.d

Date : 25-FEB-1997 10:50

Client ID: Method Spike

Instrument: msdj.i

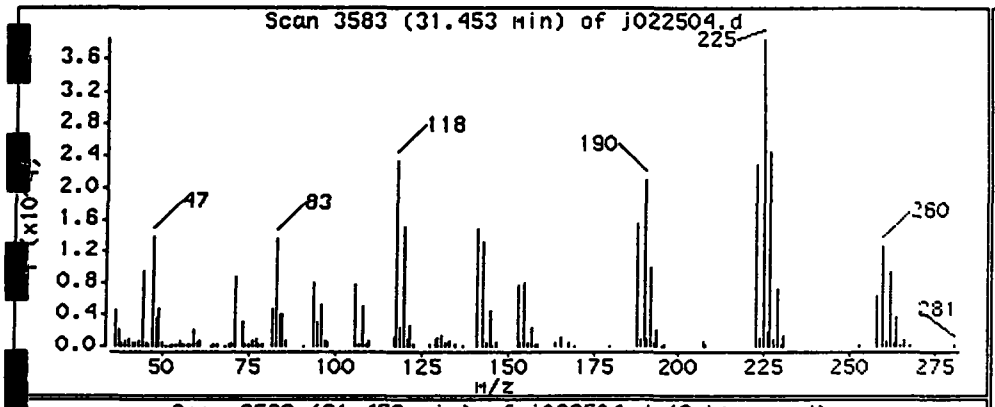
Sample Info: #296-71 TO14 Std. 25mL (5ppbv)

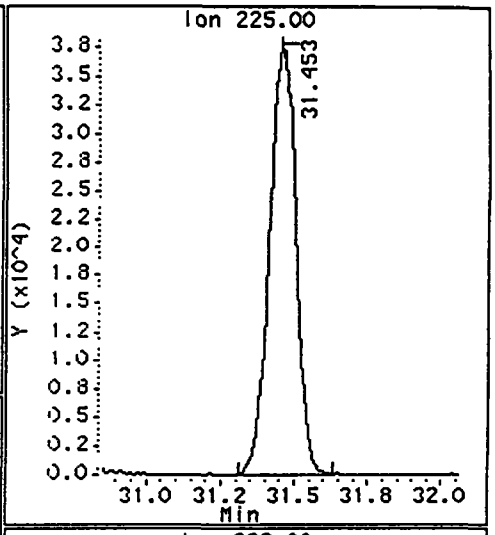
Operator: MH

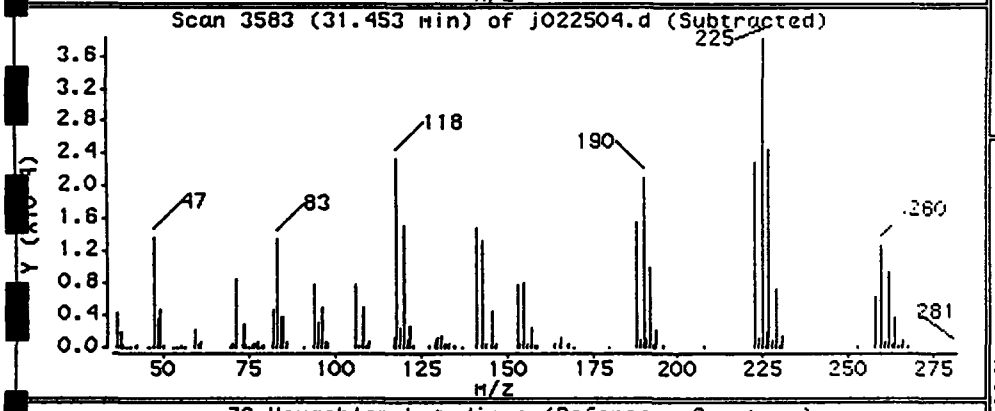
Column phase: RTx-624

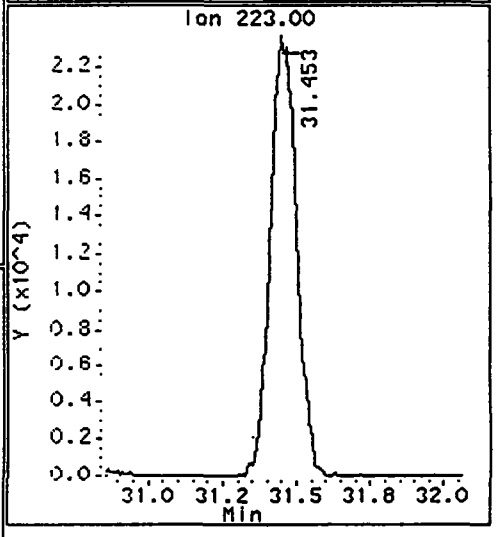
Column diameter: 0.58

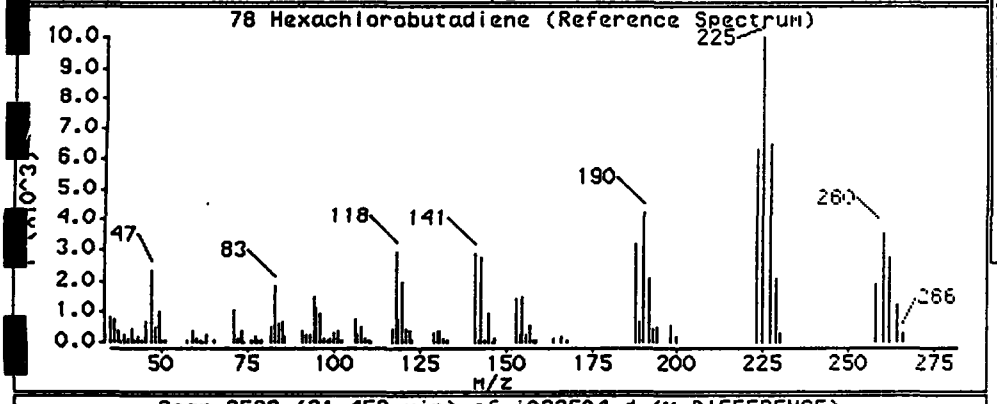
78 Hexachlorobutadiene

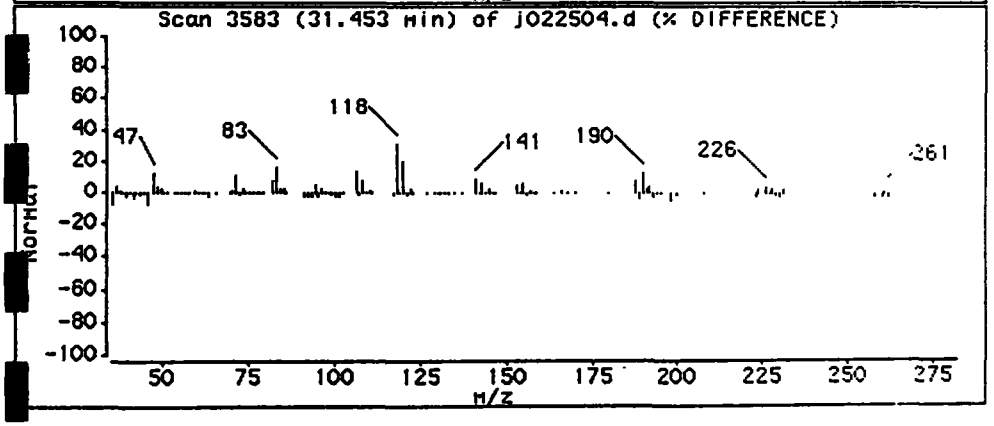






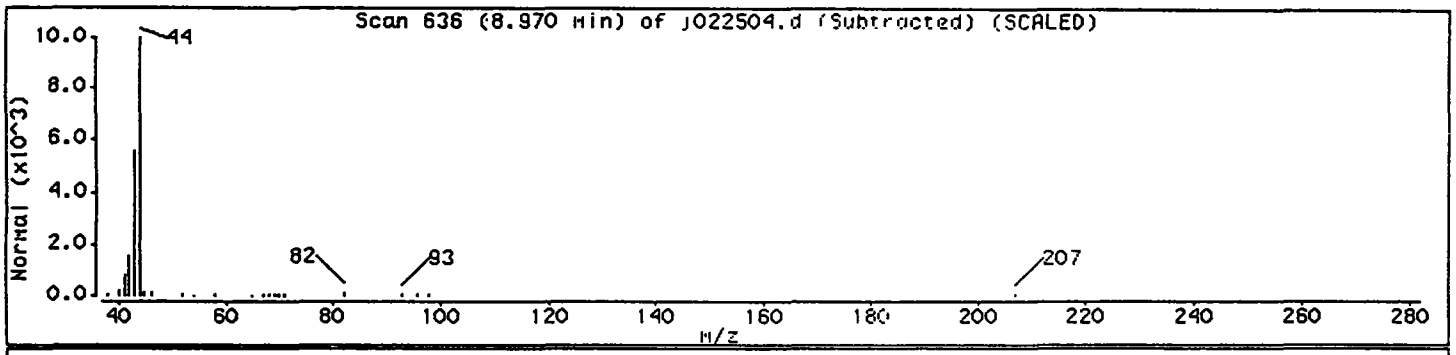




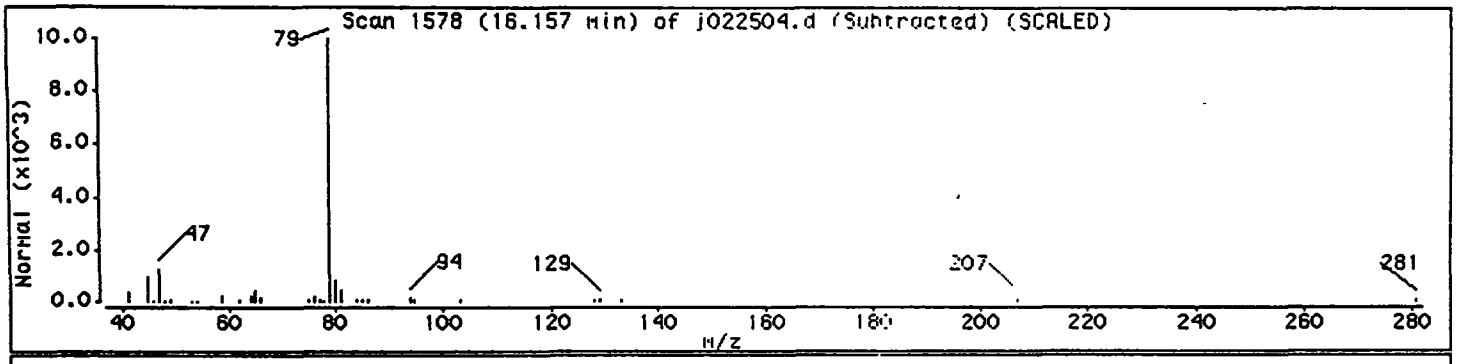


Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Unknown			0	0

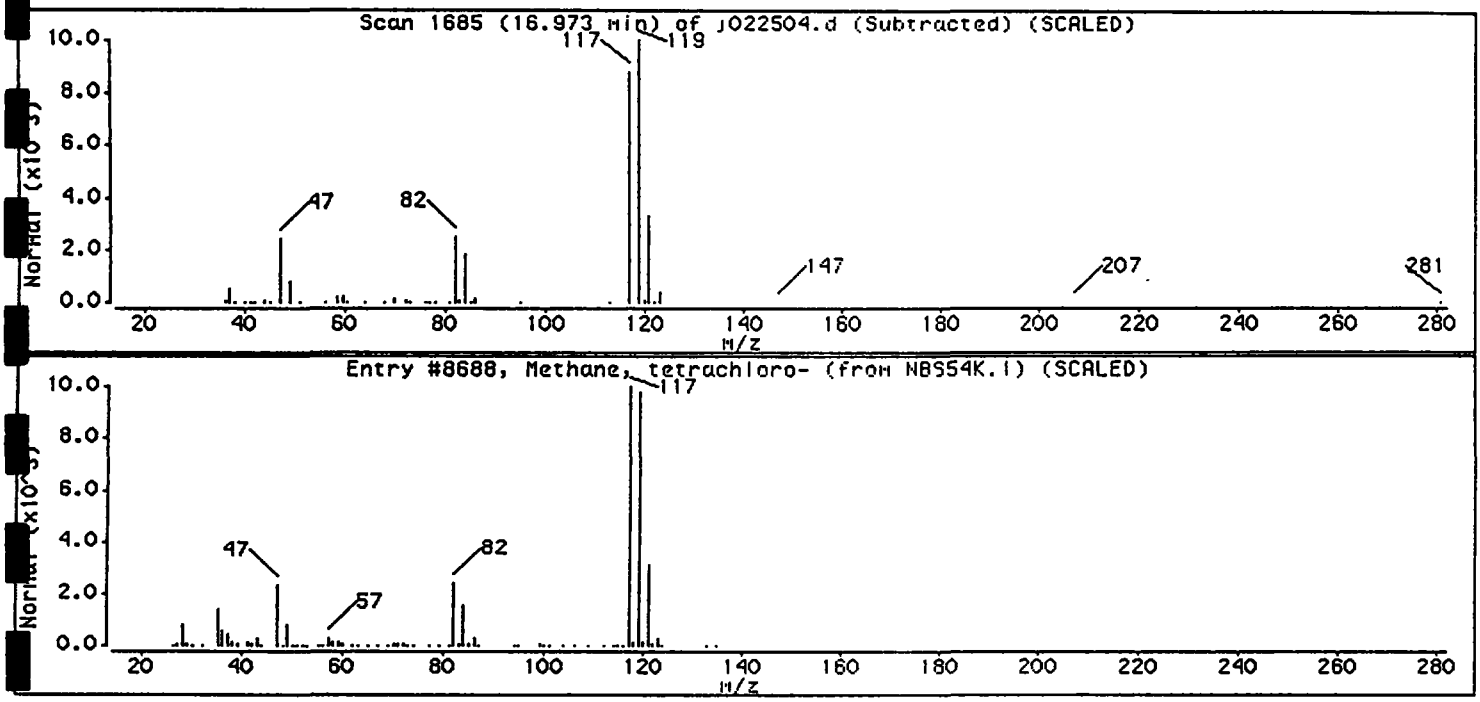


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Unknown			0	0

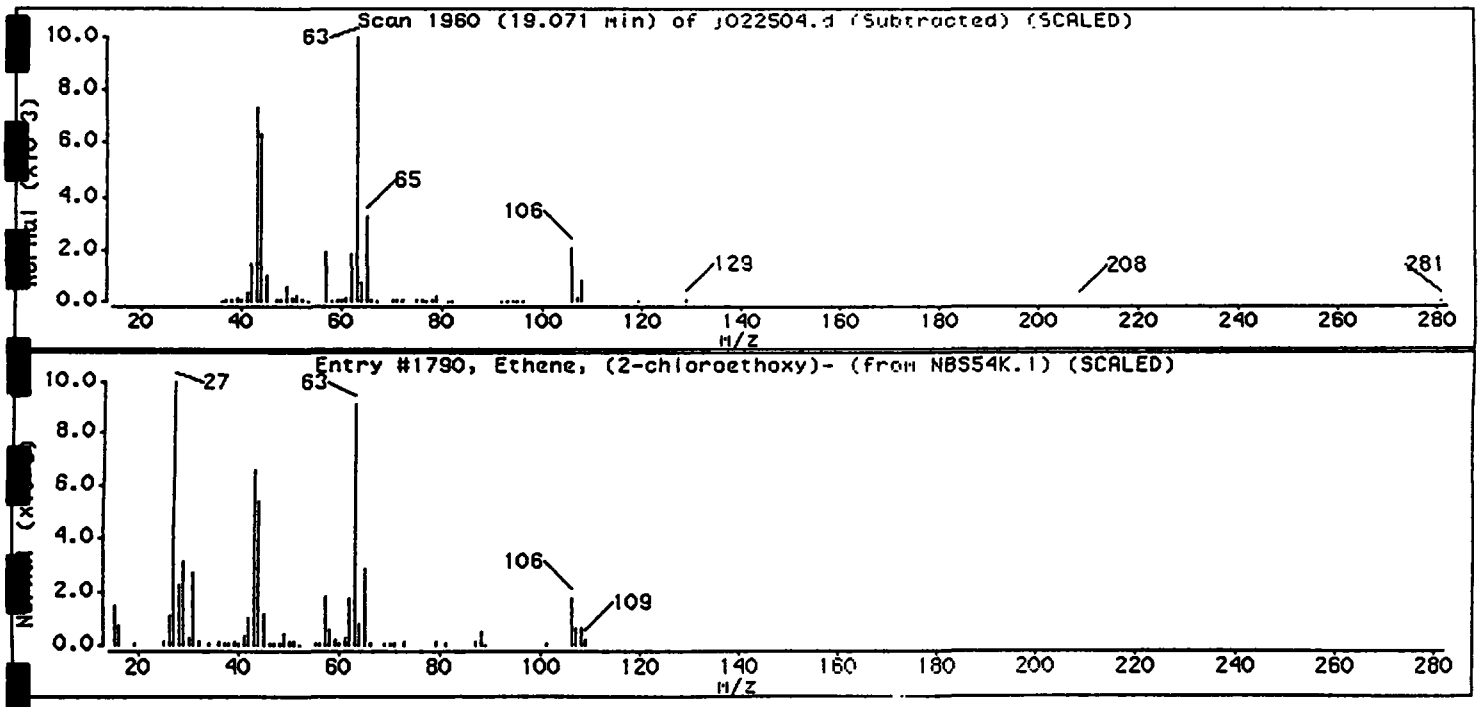


Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Methane, tetrachloro-	56-23-5	NBS54K.I	8688	83

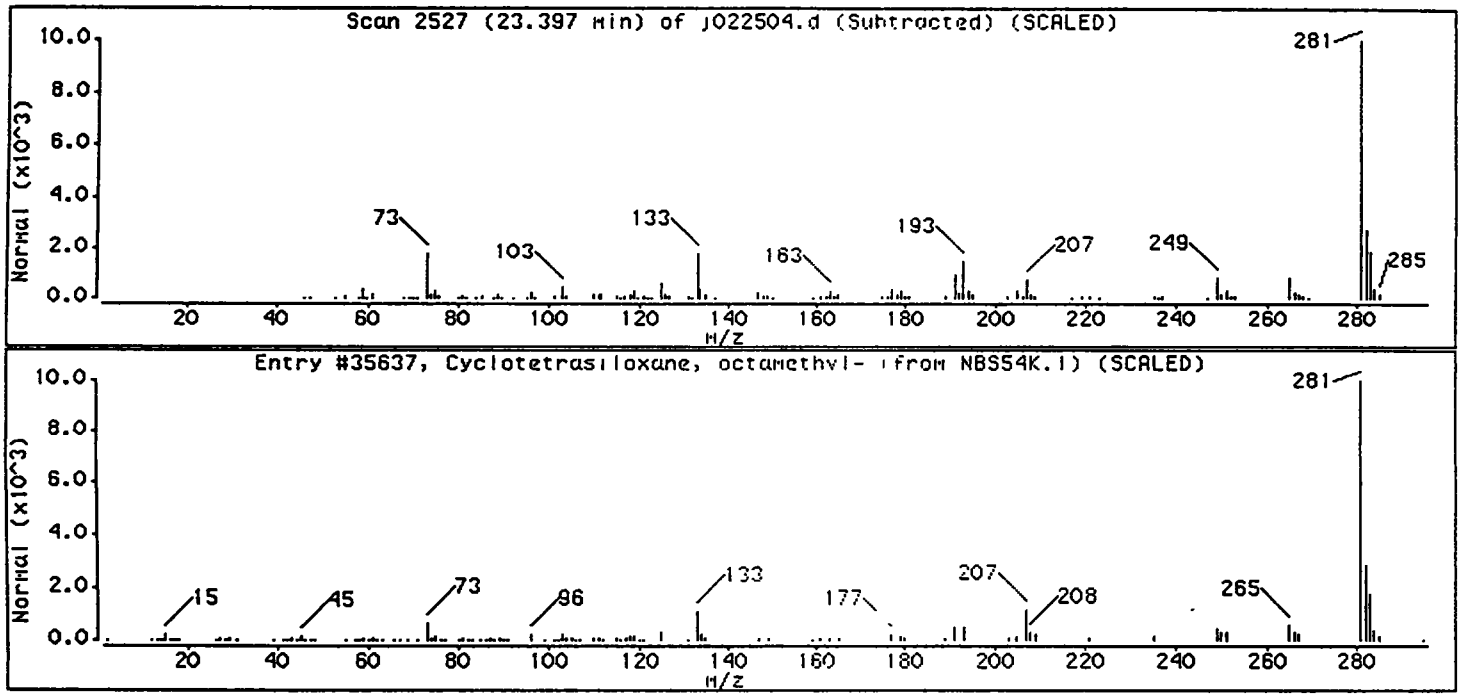


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Ethene, (2-chloroethoxy)-	110-75-8	NBS54K.I	1790	94

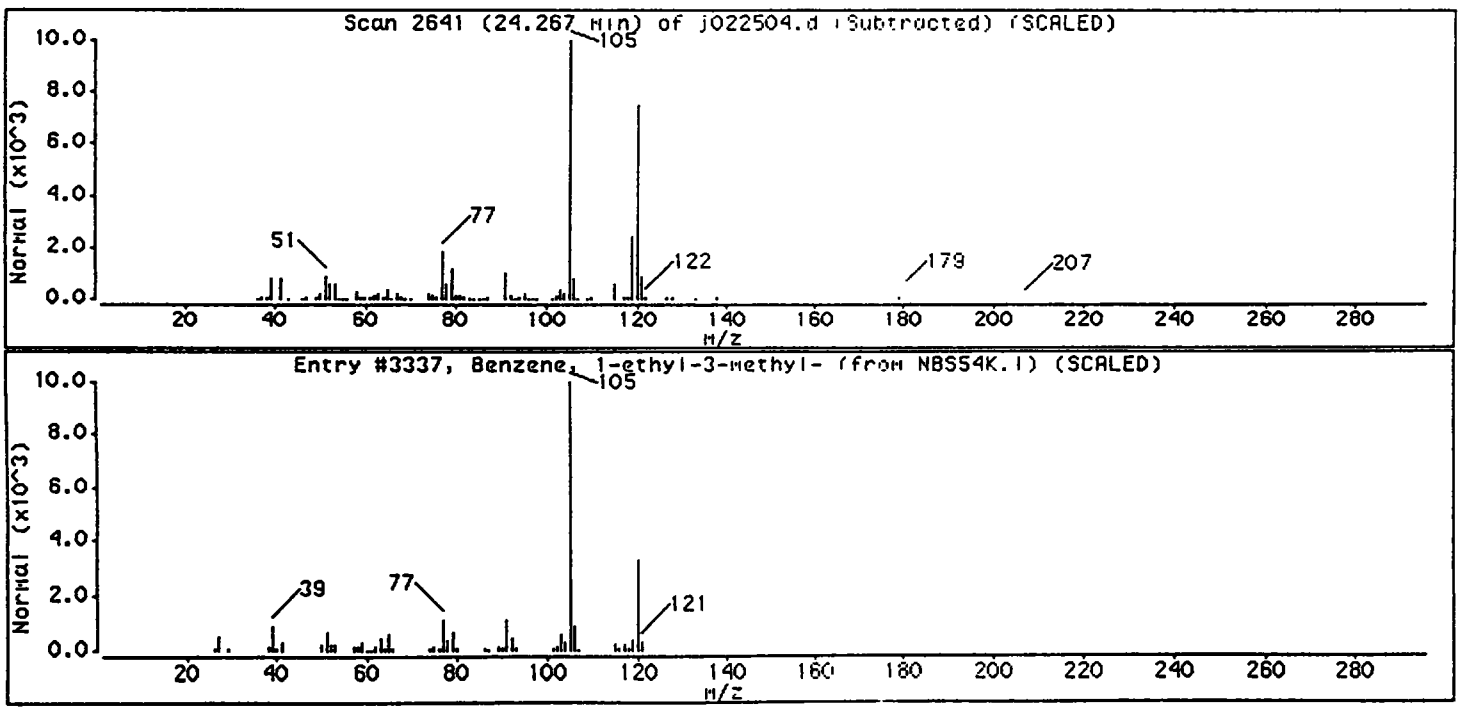


Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS54K.I	35637	64

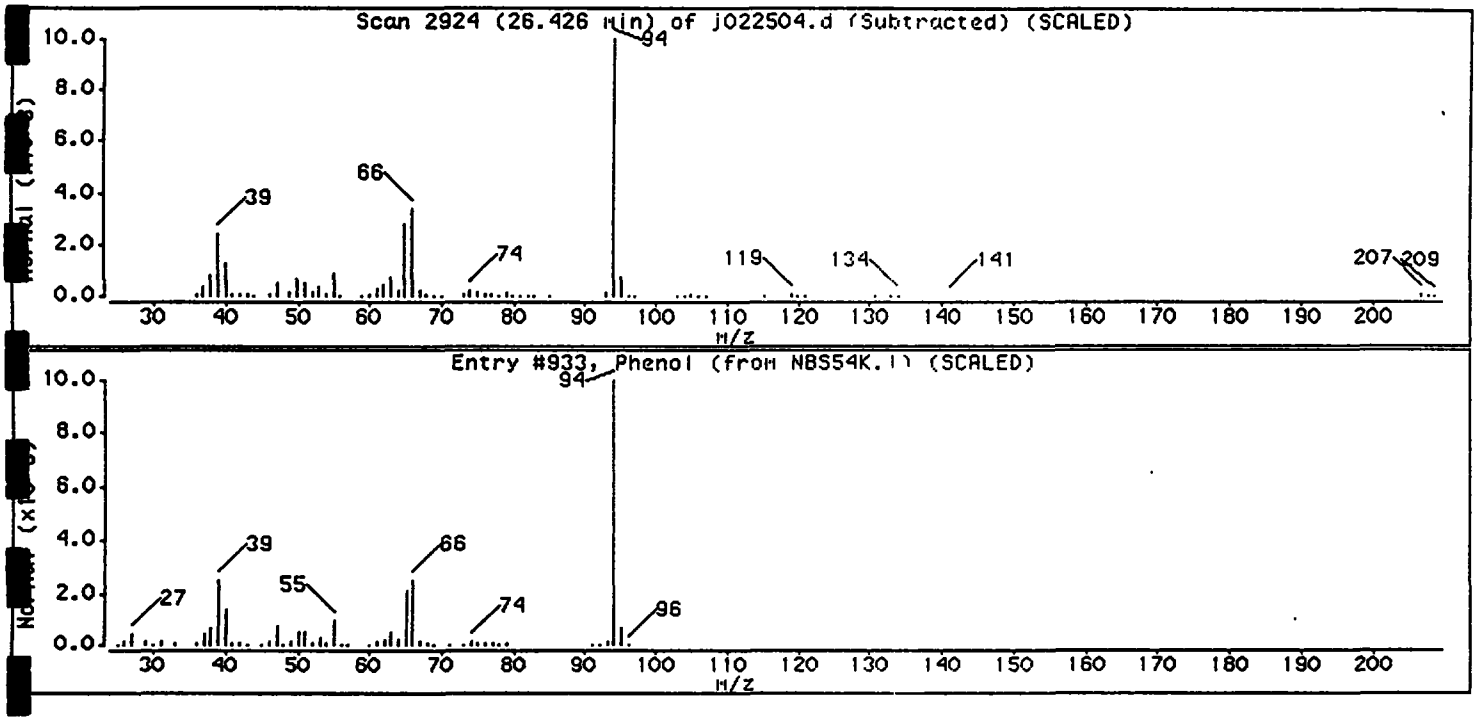


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1-ethyl-3-methyl-	620-14-4	NBS54K.I	3337	90



Data File: /chem/msdj.i/j-25feb.b/j022504.d
Date : 25-FEB-1997 10:50
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Phenol	108-95-2	NBS54K.I	933	94



Data File: /chem/msdj.i/j-09jan.b/j010903.d
Report Date: 09-Jan-1997 09:13

Air Toxics Limited

Data file : /chem/msdj.i/j-09jan.b/j010903.d
Lab Smp Id:
Inj Date : 09-JAN-1997 09:07
Operator : FA Inst ID: msdj.i
Smp Info : BFB Tune Check #275-8-25 2.0ul
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/bfb.m
Meth Date : 09-Jan-1997 09:13 fayala Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12 Sample Matrix: WATER
Concentration Formula: Uf * Vf * Vi

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.019	8.019	0.000	95	65480				100.00
8.019	8.019	0.000	50	11913			15.00- 40.00	18.19
8.019	8.019	0.000	75	29837			30.00- 60.00	45.57
8.019	8.019	0.000	96	4304			5.00- 9.00	6.57
8.019	8.019	0.000	173	0			0.00- 2.00	0.00
8.019	8.019	0.000	174	46610			50.00- 100.00	71.18
8.019	8.019	0.000	175	3256			5.00- 9.00	6.99
8.019	8.019	0.000	176	45104			95.00- 101.00	96.77
8.019	8.019	0.000	177	3143			5.00- 9.00	6.97

Data File: /chem/msdj.i/j-09jan.b/j010903.d
Report Date: 09-Jan-1997 09:13

Air Toxics Limited

TARGET COMPOUNDS

Client Name:
Lab Smp Id:
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: bfb
Data Type: MS DATA
Misc Info:

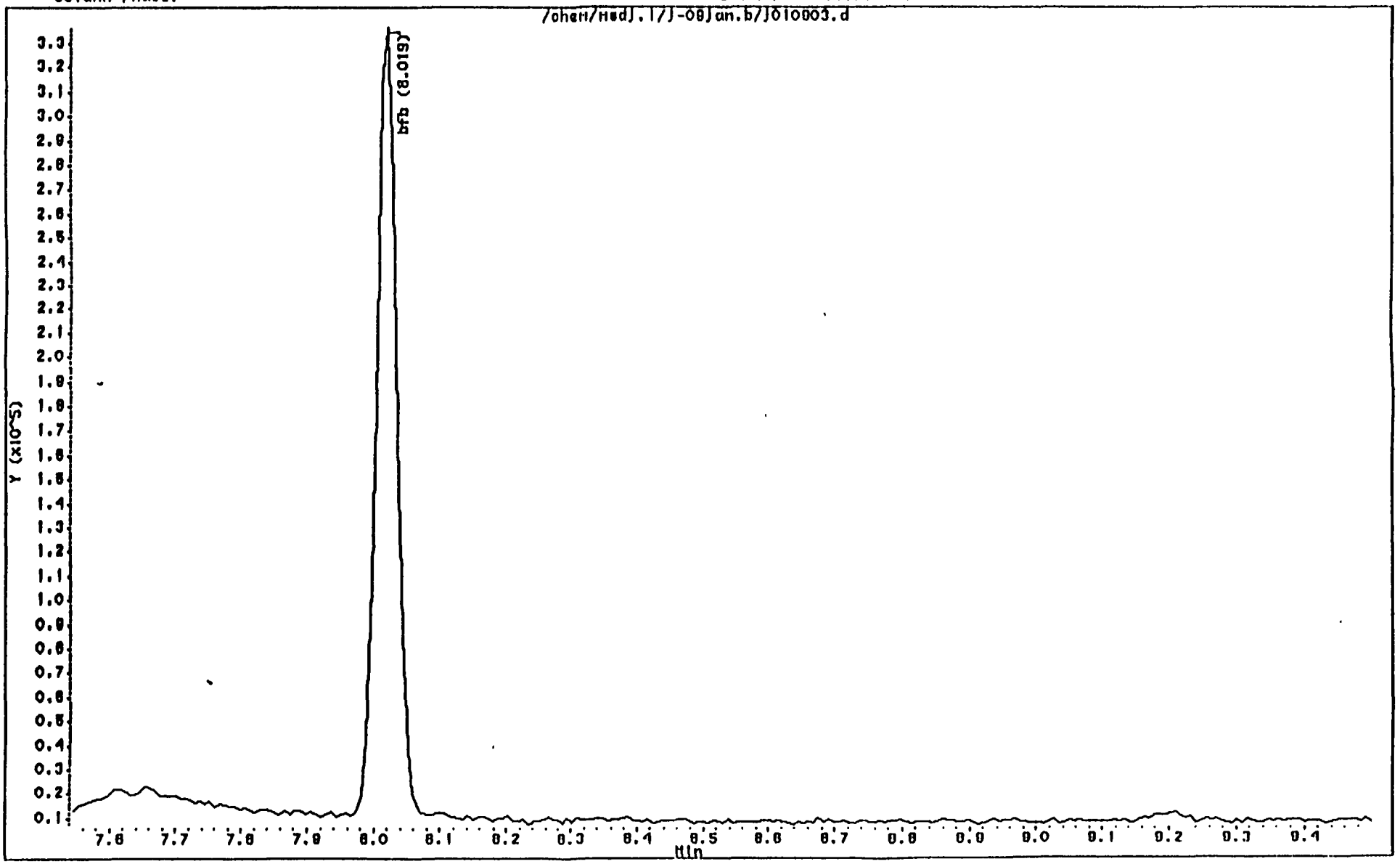
Client SDG: j-09jan
Sample Point:
Date Received:
Quant Type: ESTD
Level: LOW
Operator: FA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
460-00-4	bfb	0.0	

Data File: /ohem/HsdJ.1/J-09Jan.b/J010003.d
Date : 09-JAN-1997 09:07
Client ID:
Sample Info: BFB Tune Check M275-8-25 2.0ul
Volume Injected (uL): 1.0
Column phase:

Instrument: HsdJ.1

Operator: FM
Column diameter: 2.00



Data File: /chem/msdj.i/j-09jan.b/j010903.d

Date : 09-JAN-1997 09:07

Client ID:

Instrument: msdj.i

Sample Info: BFB Tune Check #275-8-25 2.0ul

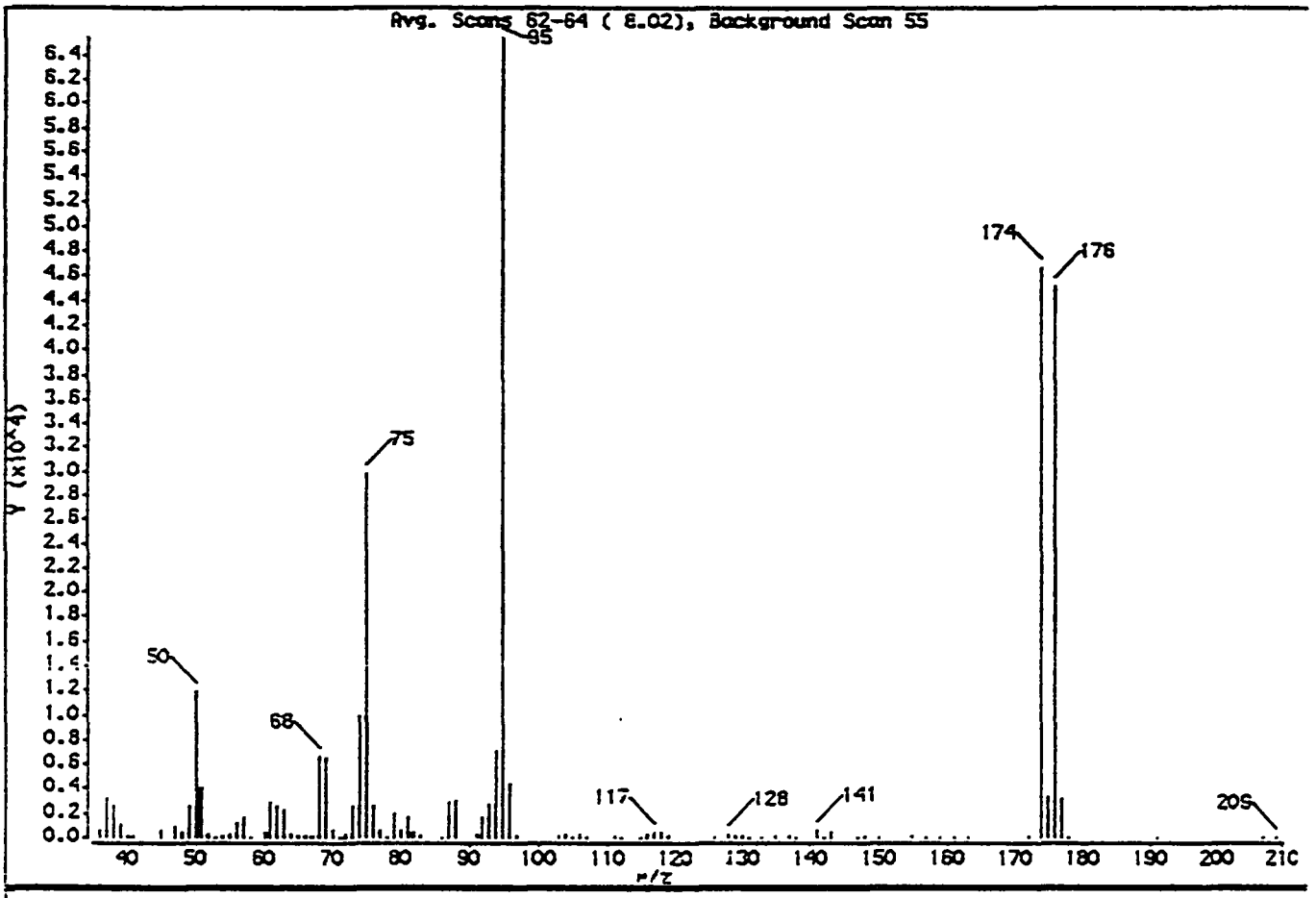
Volume Injected (uL): 1.0

Operator: FA

Column phase:

Column diameter: 2.00

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	19.19
75	30.00 - 60.00% of mass 95	45.57
96	5.00 - 9.00% of mass 95	6.57
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	71.18
175	5.00 - 9.00% of mass 174	4.97 (6.99)
176	95.00 - 101.00% of mass 174	98.88 (96.77)
177	5.00 - 9.00% of mass 176	4.90 (6.97)

Data File: /chem/msdj.i/j-09jan.b/j010903.d

Date : 09-JAN-1997 09:07

Client ID: Instrument: msdj.i

Sample Info: BFB Tune Check #275-8-25 2.0ul

Volume Injected (uL): 1.0 Operator: FR

Column phase: Column diameter: 2.00

Data File: j010903.d

Spectrum : Avg. Scans 62-64 (8.02), Background Scan 55

Largest m/z: 95.00

Number of peaks: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	611	65.00	120	93.00	2642	137.00	117
37.00	3142	66.00	195	94.00	7026	138.00	34
38.00	2627	67.00	154	95.00	65480	141.00	553
39.00	1089	68.00	6622	96.00	4304	142.00	56
40.00	94	69.00	6539	97.00	219	143.00	460
41.00	85	70.00	581	103.00	136	147.00	36
45.00	626	71.00	67	104.00	280	148.00	119
47.00	977	72.00	345	105.00	70	150.00	39
48.00	523	73.00	2521	106.00	230	155.00	121
49.00	2623	74.00	9552	107.00	34	157.00	59
50.00	11913	75.00	29832	111.00	152	159.00	55
51.00	4039	76.00	2533	112.00	43	161.00	36
52.00	279	77.00	551	115.00	43	163.00	35
53.00	50	78.00	64	116.00	253	172.00	218
54.00	83	79.00	1303	117.00	356	174.00	46608
55.00	250	80.00	551	118.00	382	175.00	3256
56.00	1167	81.00	1716	119.00	90	176.00	45104
57.00	1592	82.00	421	125.00	73	177.00	3143
58.00	2	83.00	155	126.00	261	178.00	45
60.00	477	86.00	52	129.00	108	191.00	75
61.00	2823	87.00	2534	130.00	201	207.00	37
62.00	2598	88.00	3025	131.00	45	209.00	46
63.00	2211	91.00	371	133.00	36		
64.00	255	92.00	1552	135.00	123		

Air Toxics Limited

file : /chem/msdj.i/j-25feb.b/j022501.d
Smp Id: BFB Client Smp ID: BFB
Date : 25-FEB-97 08:05
:tor : FA Inst ID: msdj.i
:nfo : #275-8-25 BFB Tune Check 2uL
Info :
ent :
od : /chem/msdj.i/j-25feb.b/bfb.m
Date : 25-Feb-1997 08:06 Quant Type: ESTD
Date : Cal File:
:ottle: 1 QC Sample: BFB
Factor: 1.000
grator: HP RTE Compound Sublist: all.sub
et Version: 3.12 Sample Matrix: WATER
entration Formula: Uf * Vf * Vi

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume

EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
8					CAS #: 460-00-4		
8.019	-0.248	95	45195				100.00
8.019	-0.248	50	8491			15.00- 40.00	18.79
8.019	-0.248	75	21693			30.00- 60.00	48.00
8.019	-0.248	96	3154			5.00- 9.00	6.98
8.019	-0.248	173	94			0.00- 2.00	0.21
8.019	-0.248	174	30256			50.00- 100.00	66.95
8.019	-0.248	175	2202			5.00- 9.00	7.28
8.019	-0.248	176	29990			95.00- 101.00	99.12
8.019	-0.248	177	1942			5.00- 9.00	6.48

File: /chem/msdj.i/j-25feb.b/j022501.d Page 2
:t Date: 25-Feb-1997 08:06

Air Toxics Limited

TARGET COMPOUNDS

ent Name:
Smp Id: BFB
ple Location:
ple Date:
ple Matrix: WATER
ysis Type: bfb
Type: MS DATA
Info:

Client SDG: j-25feb
Client Smp ID: BFB
Sample Point:
Date Received:
Quant Type: ESTD
Level: LOW
Operator: FA

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
460-00-4	bfb	0.0	

0253

Data File: /chem/msdl.i/1-25feb.b/j022501.d

Page 1

Date : 25-FEB-97 08:05

Client ID: BFB

Instrument: msdl.i

Sample Info: 8275 0.25 BFB Tune Check 2ul

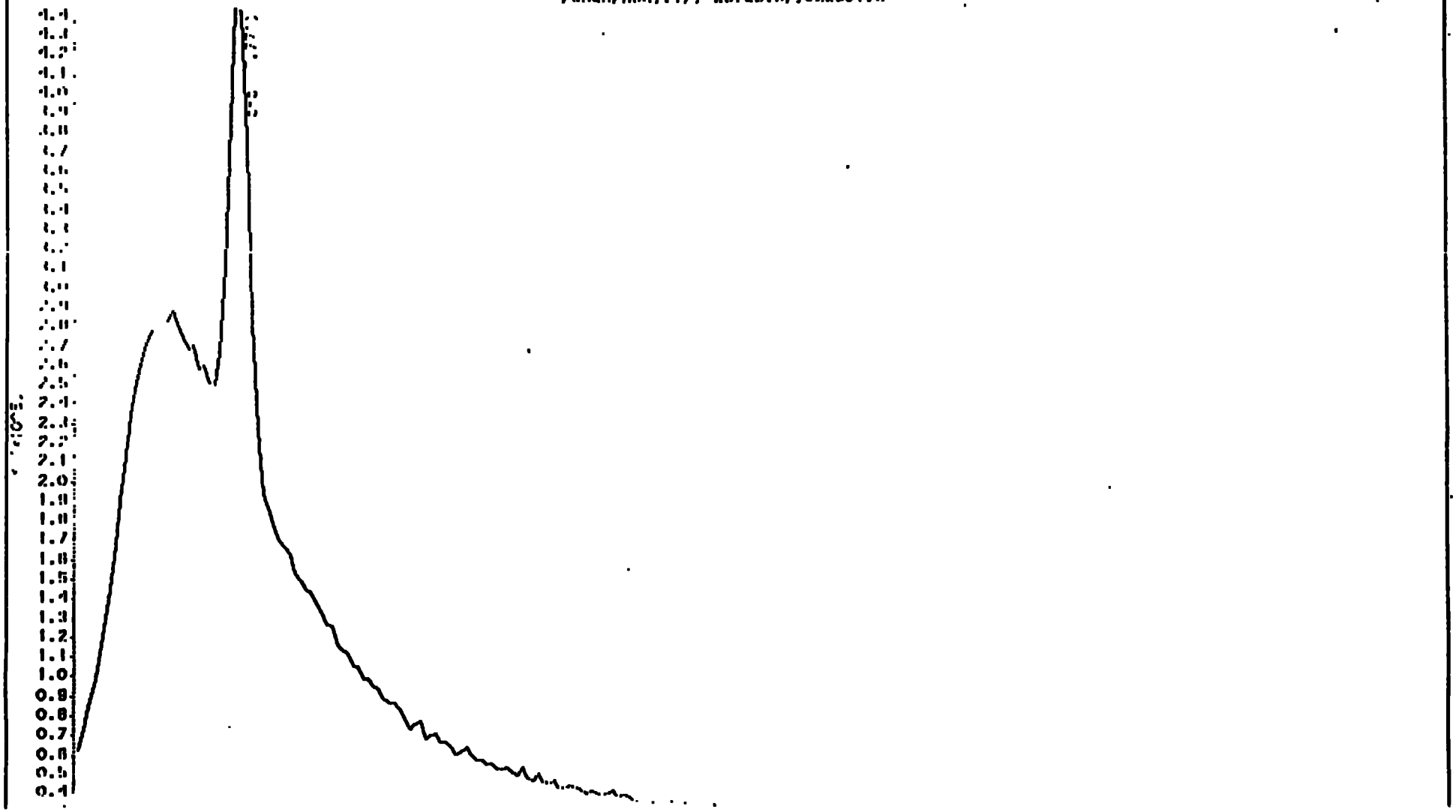
Volume Injected (ul): 1.0

Operator: FB

Column phase:

Column diameter: 2.00

/chem/msdl.i/1-25feb.b/j022501.d



Data File: /chem/nsdj.i/j-25feb.b/j022501.d

Date : 25-FEB-97 08:05

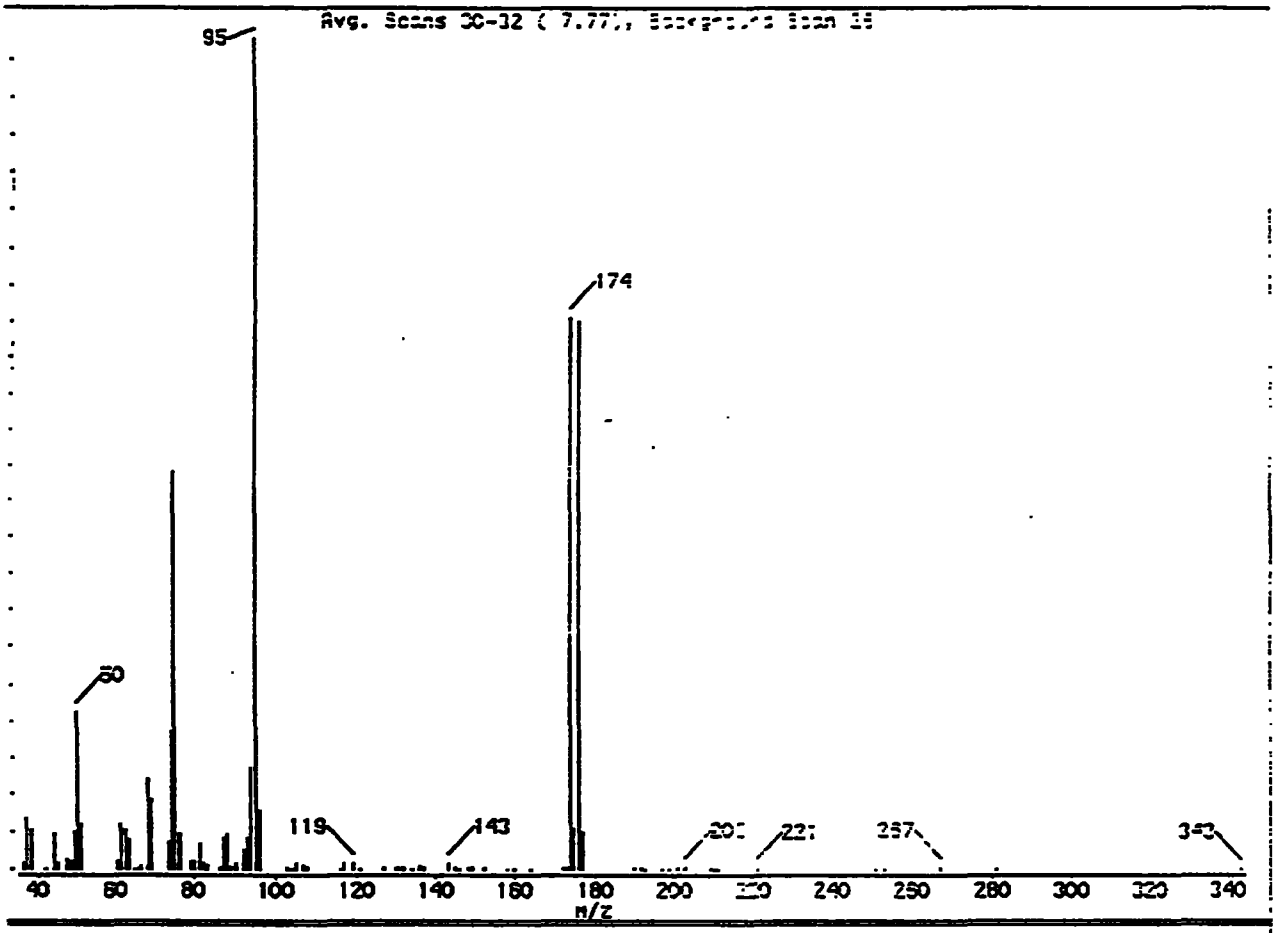
Client ID: BFB

Sample Info: =275-8-25 BFB Tune Check 2uL

Volume Injected (uL): 1.0

Mass phase:

bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.79
75	30.00 - 60.00% of mass 95	48.00
96	5.00 - 9.00% of mass 95	6.98
173	Less than 2.00% of mass 174	0.21 (0.31)
174	50.00 - 100.00% of mass 95	66.95
175	5.00 - 9.00% of mass 174	4.87 (7.28)
176	95.00 - 101.00% of mass 174	66.36 (99.12)
177	5.00 - 9.00% of mass 176	4.30 (6.48)

:a File: /onem/msd..i/j-25feb.b/j022501.d Page 5

e : 25-FEB-97 08:05

ent ID: BFB Instrument: msd..

ple info: #275-8-25 BFB Tune Check 3..

ume Injected (..): 1.0 Operator: FA

umn phase: Co-umn diameter: 2.00

Data File: j022501.d
Spectrum : Avg. Scans 30-32 (7.77 - Background Scan 25
Largest m/z: 95.00
Number of peaks: 85

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	263	76.00	[illegible]	[illegible]	[illegible]	175.00	2202
37.00	2685	79.00	465	[illegible]	[illegible]	178.00	29984
38.00	2075	80.00	390	121.00	[illegible]	177.00	1942
42.00	21	81.00	1322	127.00	[illegible]	190.00	73
44.00	1858	82.00	305	[illegible]	[illegible]	[illegible]	90
45.00	262	83.00	[illegible]	[illegible]	[illegible]	193.00	50
47.00	502	86.00	[illegible]	[illegible]	[illegible]	197.00	36
48.00	437	87.00	[illegible]	[illegible]	[illegible]	199.00	35
49.00	1950	88.00	1830	[illegible]	[illegible]	201.00	54
50.00	8491	89.00	71	137.00	[illegible]	203.00	152
51.00	2343	90.00	279	143.00	[illegible]	209.00	61
60.00	374	92.00	1017	145.00	[illegible]	210.00	43
61.00	2352	93.00	[illegible]	[illegible]	[illegible]	[illegible]	38
62.00	2129	94.00	5507	148.00	[illegible]	219.00	44
63.00	1559	95.00	45192	[illegible]	[illegible]	221.00	47
65.00	26	96.00	3154	[illegible]	[illegible]	251.00	35
66.00	212	103.00	60	[illegible]	[illegible]	253.00	38
68.00	4880	104.00	35	[illegible]	[illegible]	267.00	115
69.00	3699	105.00	262	[illegible]	[illegible]	[illegible]	30
73.00	1505	107.00	164	172.00	[illegible]	243.00	48
74.00	7519	108.00	131	173.00	[illegible]		
75.00	21688	116.00	23	174.00	[illegible]		

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9702139-04A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022506	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/25/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.50	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected
Benzene	0.10	Not Detected
1,2-Dichloroethane	0.10	Not Detected
Trichloroethene	0.10	Not Detected
1,2-Dichloropropane	0.10	Not Detected
Toluene	0.10	Not Detected
Tetrachloroethene	0.10	Not Detected
Chlorobenzene	0.10	Not Detected
Ethyl Benzene	0.10	Not Detected
m,p-Xylene	0.10	Not Detected
o-Xylene	0.10	Not Detected
Styrene	0.10	Not Detected
Acetone	0.50	Not Detected
Carbon Disulfide	0.50	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	102	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

Data File: /chem/msdj.i/j-25feb.b/j022506.d
Report Date: 25-Feb-1997 13:25

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-25feb.b/j022506.d
Lab Smp Id:
Client Smp ID: Lab Blank
Inj Date : 25-FEB-1997 12:34
Operator : MH
Inst ID: msdj.i
Smp Info : 500mL Can#05407
Misc Info : Lab Blank
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 13:20 mhe
Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48
Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.000
Compound Sublist: AT.sub
Integrator: HP RTE
Sample Matrix: AIR
Target Version: 3.12
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

REVIEWED BY
FEB 2 6 1997
FRANCISCO AYALA

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.381	16.358 (1.000)	130	218045	5.0			100.00	9298
16.381	16.358 (0.000)	128	46480			28.11- 128.11	21.32	
16.381	16.358 (0.000)	49	106998			130.70- 230.70	49.07	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.724	17.700 (1.000)	114	1013558	5.0			100.00	9274
17.724	17.700 (0.000)	88	59680			0.00- 68.37	5.89	
58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.813	21.790 (1.000)	117	915479	5.0			100.00	9917(H)
21.813	21.790 (0.000)	82	148304			10.83- 110.83	16.20	
35 Octafluorotoluene					CAS #: 434-64-0			
16.915	16.892 (1.033)	217	517871	5.1	5.1		100.00	8010
16.915	16.892 (0.000)	186	103152			13.05- 113.05	19.92	
49 Toluene-d8					CAS #: 2037-26-5			
19.746	19.730 (1.114)	98	960082	5.2	5.2		100.00	9928
19.746	19.730 (0.000)	70	36992			0.00- 63.02	3.85	
19.746	19.730 (0.000)	100	186432			15.19- 115.19	19.42	

Data File: /chem/msdj.i/j-25feb.b/j022506.d
Report Date: 25-Feb-1997 13:25

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 65 Bromofluorobenzene						CAS #: 460-00-4			
23.652	23.621	(1.071)	95	703415	5.0	5.0		100.00	8115
23.652	23.621	(0.000)	174	94288			7.77- 107.77	13.40	
23.652	23.621	(0.000)	176	92264			7.57- 107.57	13.12	

QC Flag Legend

H - Operator selected an alternate compound hit.

Audit History For: /chem/msdj.i/j-25feb.b/j022506.d

MH 2/25/97

Change Date: 25-Feb-97 13:00
Change Made by: Automation

Parameter: ChemLan Data Transfer
Old Value:
New Value:
Reason For Change: MS Data from Instrument: msdj.i

Change Date: 25-Feb-97 13:00
Change Made by: Automation

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Complete Target Compound Processing

Change Date: 25-Feb-97 13:04
Change Made by: mhe

Parameter: date
Old Value: 25-FEB-97 12:34
New Value: 25-FEB-1997 12:34
Reason For Change: N/A

Change Date: 25-Feb-97 13:04
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 25-Feb-97 13:06
Change Made by: mhe

Parameter: Client ID
Old Value: VSTD150
New Value: Lab Blank
Reason For Change: N/A

Change Date: 25-Feb-97 13:06
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 25-Feb-97 13:15
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene-d5 changed
Old Value: Old Hit #2
New Value: New Hit #3
Reason For Change: N/A

Change Date: 25-Feb-97 13:15
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 25-Feb-97 13:15
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene-d5 changed
Old Value: Old Hit #3
New Value: New Hit #1
Reason For Change: N/A

Change Date: 25-Feb-97 13:15
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 25-Feb-97 13:23
Change Made by: mhe

Parameter: Misc Information
Old Value:
New Value: Lab Blank
Reason For Change: N/A

Change Date: 25-Feb-97 13:23
Change Made by: mhe.

Parameter: Sample Info
Old Value: Lab Blank 500mL Can#05407
New Value: 500mL Can#05407
Reason For Change: N/A

Change Date: 25-Feb-97 13:23
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-25feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Best Hit for Ethanol changed
Old Value: Old Hit #2
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:

Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Manual reintegration of Acetone (Signal 1)
Old Value: Old Area/Time: 20935 / 13.24
New Value: New Area/Time: 27373 / 13.24
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Best Hit for Acetone changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Best Hit for Acetone changed
Old Value: Compound Undetected
New Value: New Hit #1
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Manual reintegration of Acetone (Signal 1)
Old Value: Old Area/Time: 27373 / 13.24
New Value: New Area/Time: 32533 / 13.24
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Best Hit for Acetone changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #2
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Best Hit for 4-Methyl-2-pentanone changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Best Match for Unknown compound at 20.051 min. changed.
Old Value: Old match: Cyclotrisiloxane, hexamethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 25-Feb-97 13:24
Change Made by: mhe

Parameter: Best Match for Unknown compound at 23.248 min. changed.
Old Value: Old match: Acetamide, N,N-dimethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 25-Feb-97 13:25
Change Made by: mhe

Parameter: Best Match for Unknown compound at 23.416 min. changed.
Old Value: Old match: Cyclotetrasiloxane, octamethyl-
New Value: New match: Unknown Compound Deleted

Reason For Change: N/A

Change Date: 25-Feb-97 13:25
Change Made by: mhe

Parameter: Best Match for Unknown compound at 30.488 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 25-Feb-97 13:25
Change Made by: mhe

Parameter: Best Match for Unknown compound at 34.493 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Data File: /chem/msdj.i/j-25feb.b/j022506.d
Report Date: 25-Feb-1997 13:23

MH 2/25/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-25feb.b/j022506.d
Lab Smp Id: Client Smp ID: Lab Blank
Inj Date : 25-FEB-1997 12:34
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#05407
Misc Info : Lab Blank
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 13:20 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.381	16.358 (1.000)	130	218045	5.0			100.00	9298
16.381	16.358 (0.000)	128	46480			28.11- 128.11	21.32	
16.381	16.358 (0.000)	49	106998			130.70- 230.70	49.07	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.724	17.700 (1.000)	114	1013558	5.0			100.00	9274
17.724	17.700 (0.000)	88	59680			0.00- 68.37	5.89	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.813	21.790 (1.000)	117	915479	5.0			100.00	9917(H)
21.813	21.790 (0.000)	82	148304			10.83- 110.83	16.20	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.915	16.892 (1.033)	217	517871	5.1	5.1		100.00	8010
16.915	16.892 (0.000)	186	103152			13.05- 113.05	19.92	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.746	19.730 (1.114)	98	960082	5.2	5.2		100.00	9928
19.746	19.730 (0.000)	70	36992			0.00- 63.02	3.85	
19.746	19.730 (0.000)	100	186432			15.19- 115.19	19.42	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY	
65 Bromofluorobenzene					CAS #: 460-00-4				
23.652	23.621 (1.071)	95	703415	5.0	5.0		100.00	8115	
23.652	23.621 (0.000)	174	94288			7.77- 107.77	13.40		
23.652	23.621 (0.000)	176	92264			7.57- 107.57	13.12		
11 Ethanol					CAS #: 64-17-5				
12.498	12.528 (0.763)	45	1058	0.059	0.059		100.00		(a)
12.582	12.528 (0.768)	46	121			0.00- 91.33	11.44		
12.506	12.528 (0.763)	43	470			0.00- 76.37	44.42		
16 Acetone					CAS #: 67-64-1				
13.238	13.092 (0.808)	43	20935	0.24	0.24		100.00		(a)
13.231	13.092 (0.808)	58	2408			0.00- 79.57	11.50		
38 1,2-Dichloroethane					CAS #: 107-06-2				
17.717	17.258 (1.000)	62	37590	0.50	0.50		100.00	3468	(Q)
17.717	17.258 (0.000)	64	10138			0.00- 82.38	26.97		
47 4-Methyl-2-pentanone					CAS #: 108-10-1				
19.746	19.455 (1.114)	43	8341	0.058	0.058		100.00	1221	(aQ)
19.746	19.455 (0.000)	58	2763			0.00- 86.59	33.13		
19.746	19.455 (0.000)	85	54			0.00- 61.74	0.65		

QC Flag Legend

a - Target compound detected but, quantitated amount
Below Limit Of Quantitation(BLOQ).
- Qualifier signal failed the ratio test.
- Operator selected an alternate compound hit.

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-25feb.b/j022506.d
Lab Smp Id: Client Smp ID: Lab Blank
Inj Date : 25-FEB-1997 12:34
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#05407
Misc Info : Lab Blank
Comment :
Method : /chem/msdj.i/j-25feb.b/to140109.m
Meth Date : 25-Feb-1997 13:20 mhe
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: AT.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

ISTD	RT	AREA	AMOUNT
* 58 Chlorobenzene-d5	21.813	2989856	5.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
20.051	326574	0.55	0.55	72	NBS54K.l	23660	58
Acetamide, N,N-dimethyl-				CAS #: 127-19-5			
23.248	2500849	4.2	4.2	86	NBS54K.l	707	58
Cyclotetrasiloxane, octamethyl-				CAS #: 556-67-2			
23.416	171367	0.29	0.29	83	NBS54K.l	35637	58
Unknown				CAS #:			
30.488	188905	0.32	0.32	0		0	58

Data File: /chem/msdj.i/j-25feb.b/j022506.d
Report Date: 25-Feb-1997 13:23

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
34.493	177425	0.30	0.30	0		0	58

Data File: /chem/msdj.i/j-25feb.b/j022506.d
Report Date: 25-Feb-1997 13:23

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j022506.d
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-25feb.b/to140109.m
Misc Info: Lab Blank

Calibration Date: 02/25/97
Calibration Time: 1050
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	221139	132683	309595	218045	-1.40
40 1,4-Difluorobenzene	1000893	600536	1401250	1013558	1.27
58 Chlorobenzene-d5	931057	558634	1303480	915479	-1.67

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	16.36	15.86	16.86	16.38	0.11
40 1,4-Difluorobenzene	17.71	17.21	18.21	17.72	0.11
58 Chlorobenzene-d5	21.79	21.29	22.29	21.81	0.09

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

MH 2/25/97

Air Toxics Limited

RECOVERY REPORT

Client Name: Client SDG: j-25feb
Sample Matrix: GAS Fraction: VOA
Lab Smp Id: Client Smp ID: Lab Blank
Level: LOW Operator: MH
Data Type: MS DATA SampleType: SAMPLE
SpikeList File: Quant Type: ISTD
Method File: /chem/msdj.i/j-25feb.b/to140109.m
Misc Info: Lab Blank

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	5.1	102.51	60-140
$ 49 Toluene-d8	5.0	5.2	104.69	60-140
$ 65 Bromofluorobenzene	5.0	5.0	99.23	60-140

MH
2/25/97

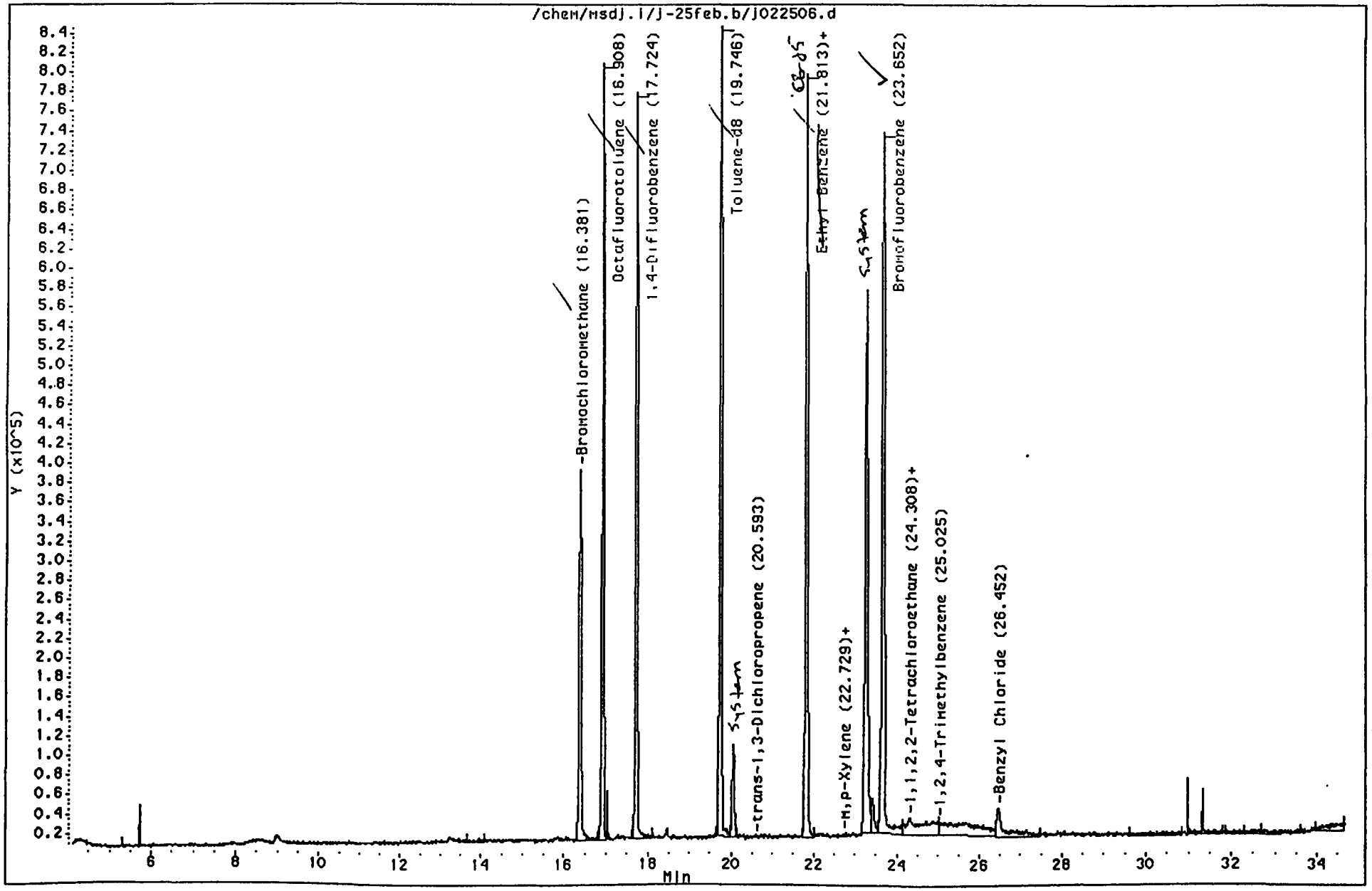
0270

Data File: /chem/msdj.i/j-25feb.b/j022506.d
Date : 25-FEB-1997 12:34
Client ID: Lab Blank
Sample Info: 500mL Can#05407

Column phase: RTx-624

Instrument: msdj.i

Operator: MH
Column diameter: 0.58



Data File: /chem/msdj.i/j-25feb.b/j022506.d

Date : 25-FEB-97 12:34

Client ID: Lab Blank

Instrument: msdj.i

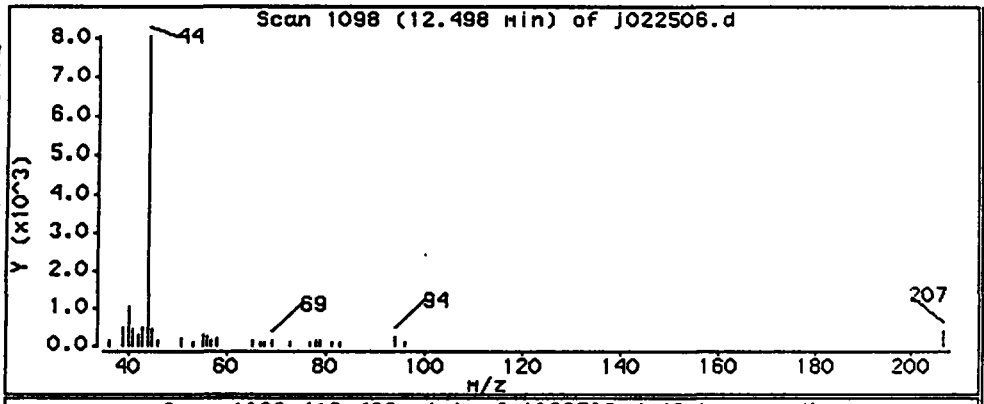
Sample Info: 500mL Can#05407

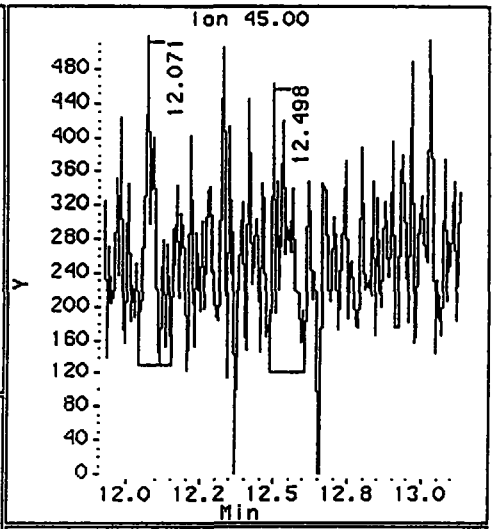
Operator: MH

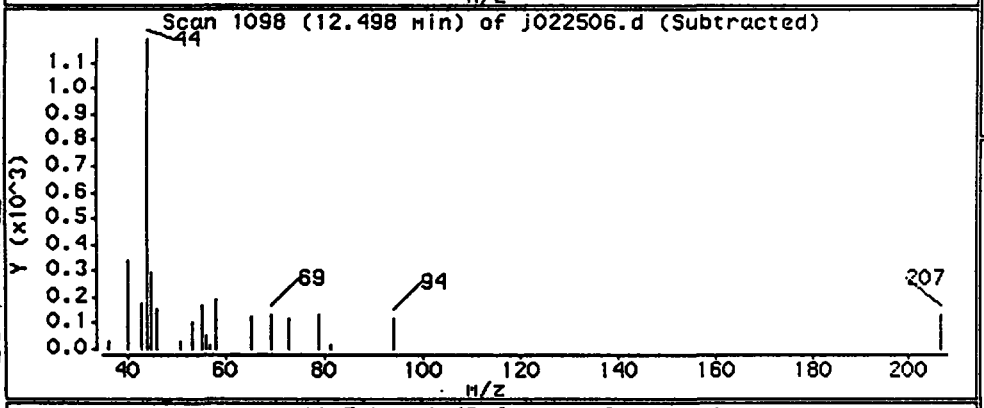
Column phase: RTx-624

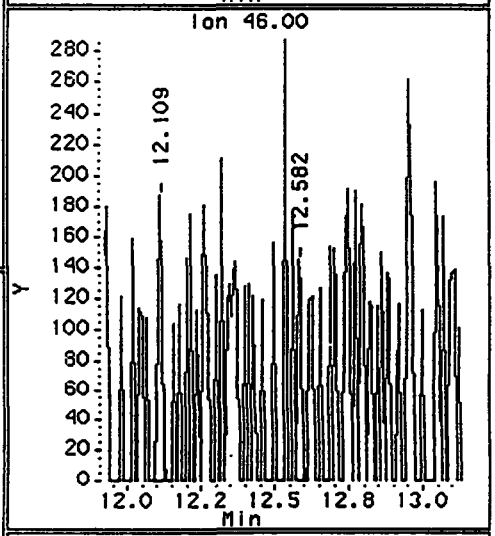
Column diameter: 0.58

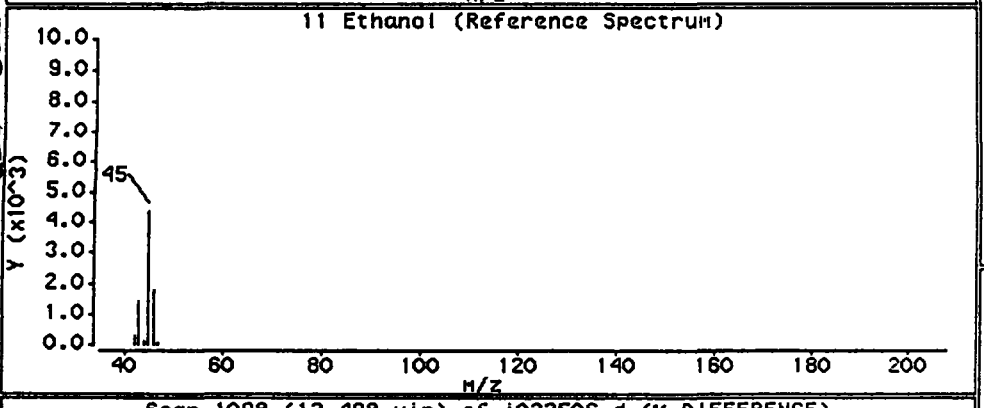
11 Ethanol

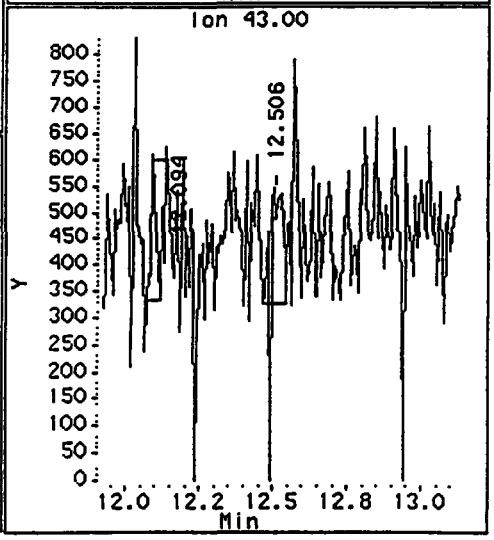


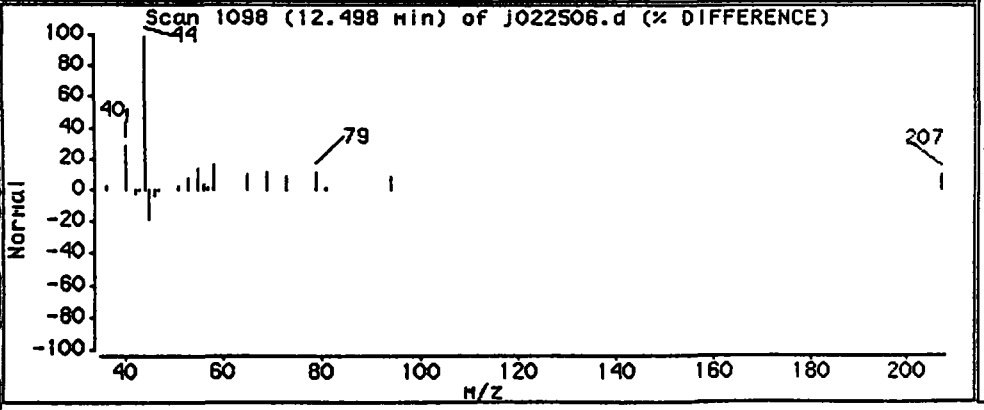












Data File: /chem/msdj.i/j-25feb.b/j022506.d

Date : 25-FEB-97 12:34

Client ID: Lab Blank

Instrument: msdj.i

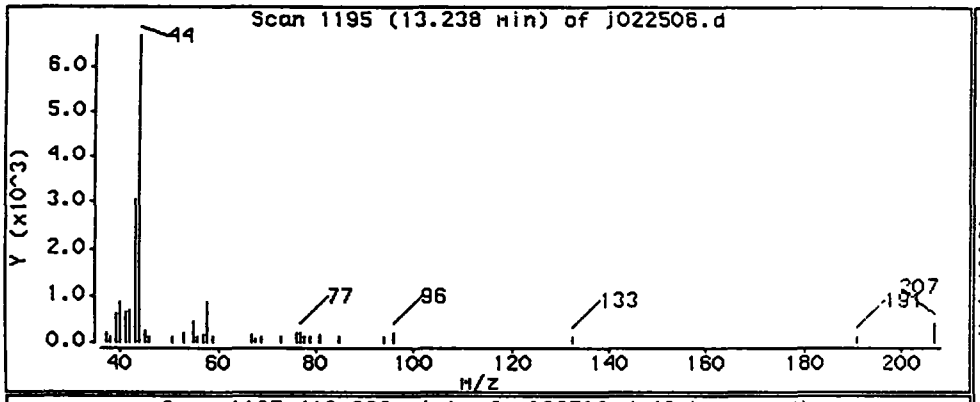
Sample Info: 500mL Can#05407

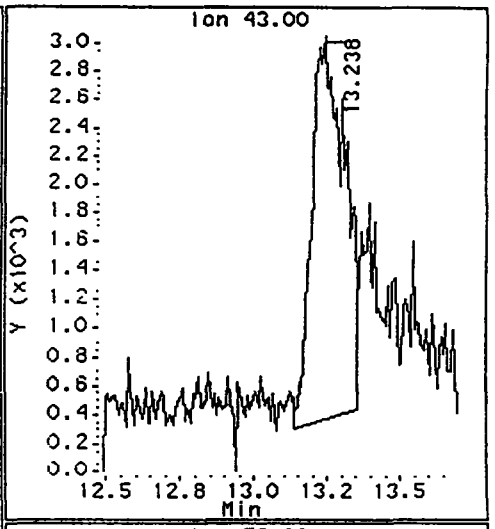
Operator: MH

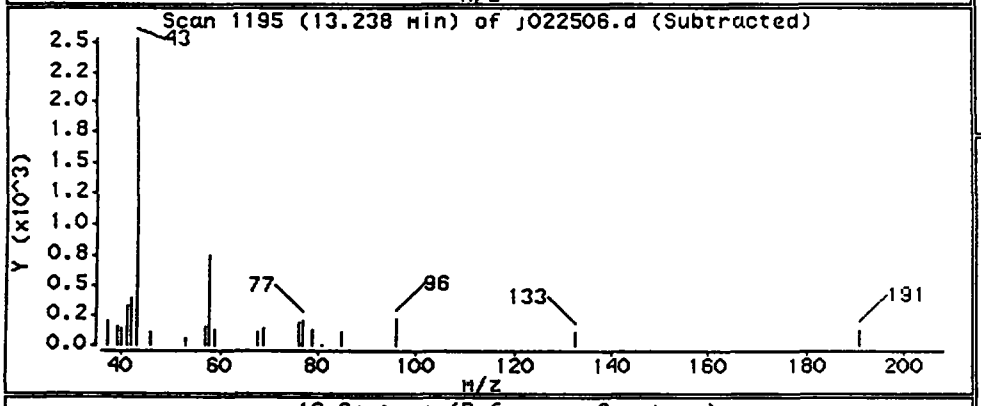
Column phase: RTx-624

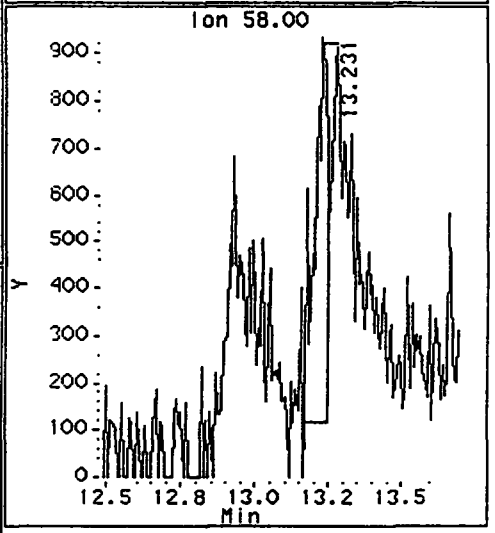
Column diameter: 0.58

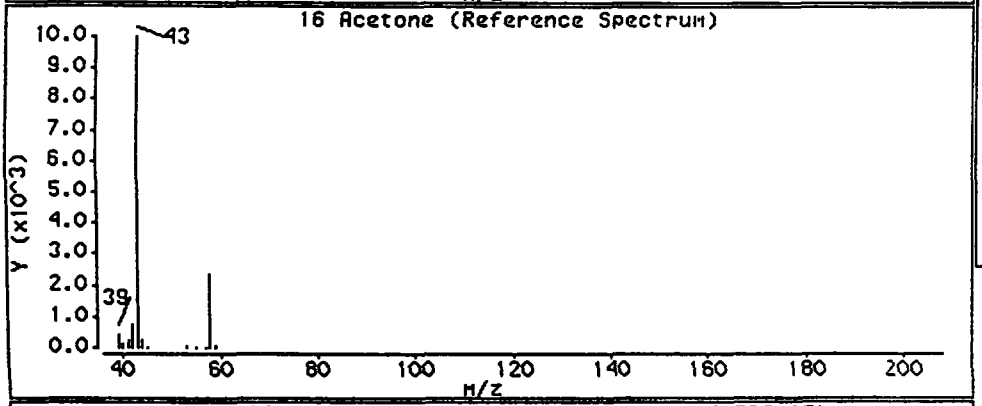
16 Acetone

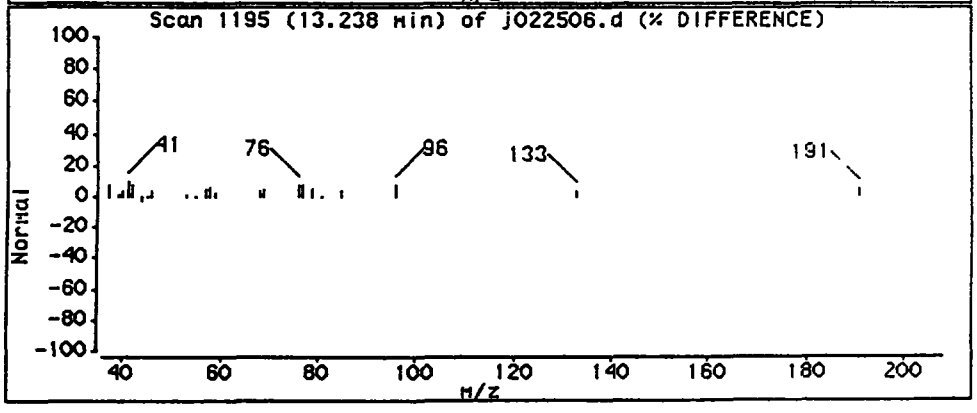












Data File: /chem/msdj.i/j-25feb.b/j022506.d

Date : 25-FEB-97 12:34

Client ID: Lab Blank

Instrument: msdj.i

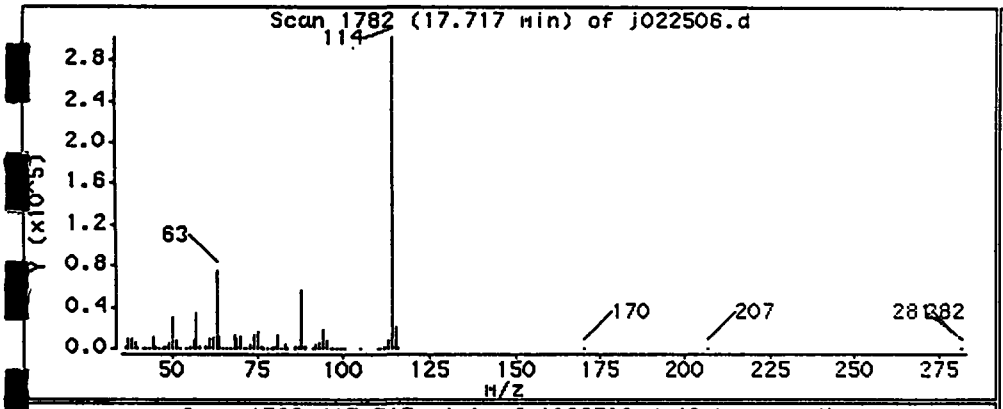
Sample Info: 500mL Can#05407

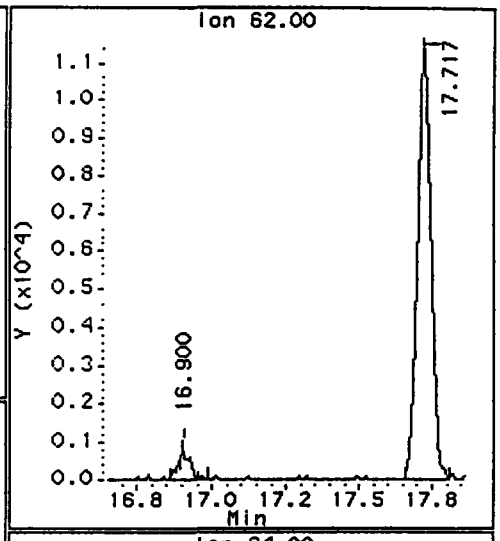
Operator: MH

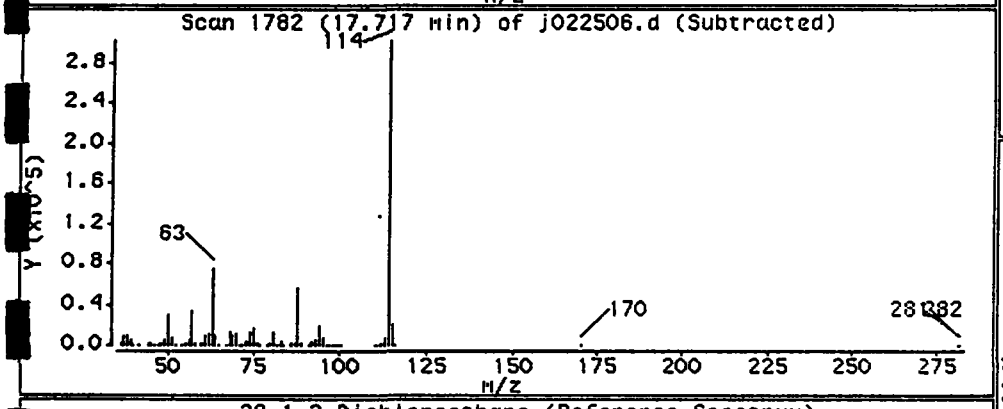
Column phase: RTx-624

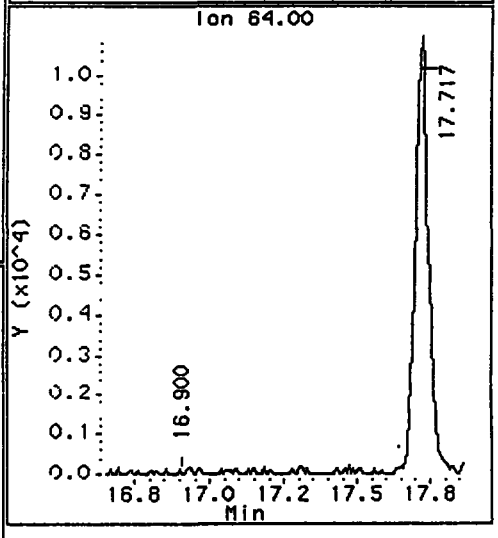
Column diameter: 0.58

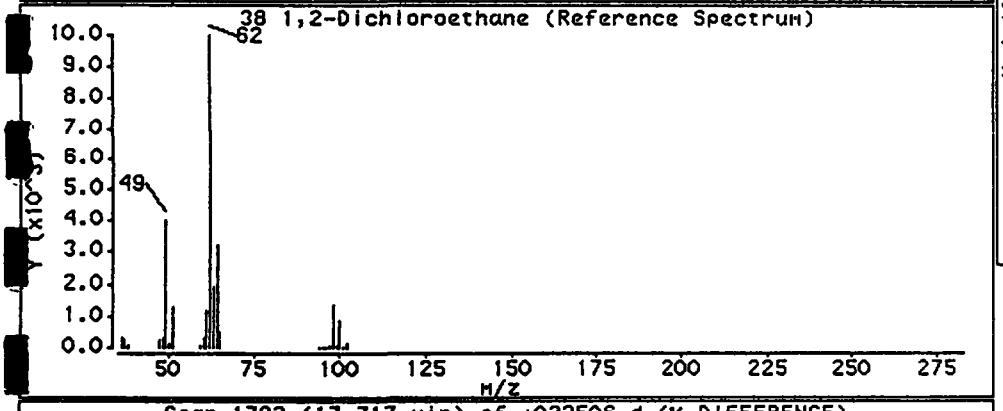
38 1,2-Dichloroethane

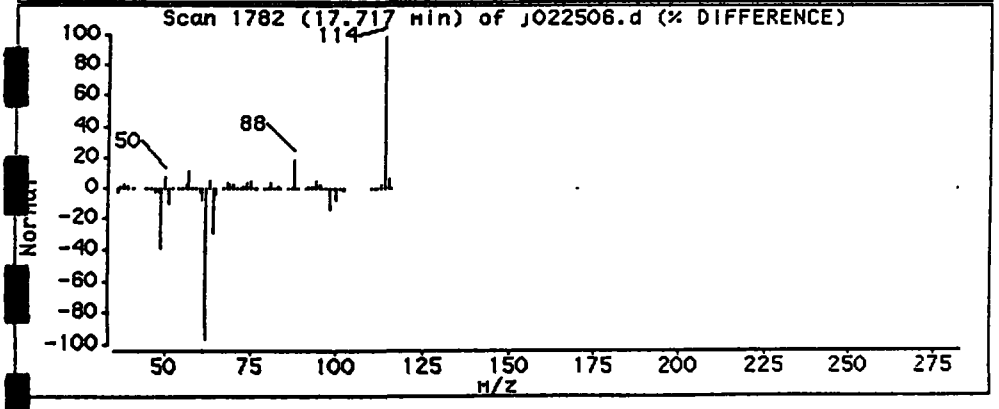












Data File: /chem/msdj.i/j-25feb.b/j022506.d

Date : 25-FEB-97 12:34

Client ID: Lab Blank

Instrument: msdj.i

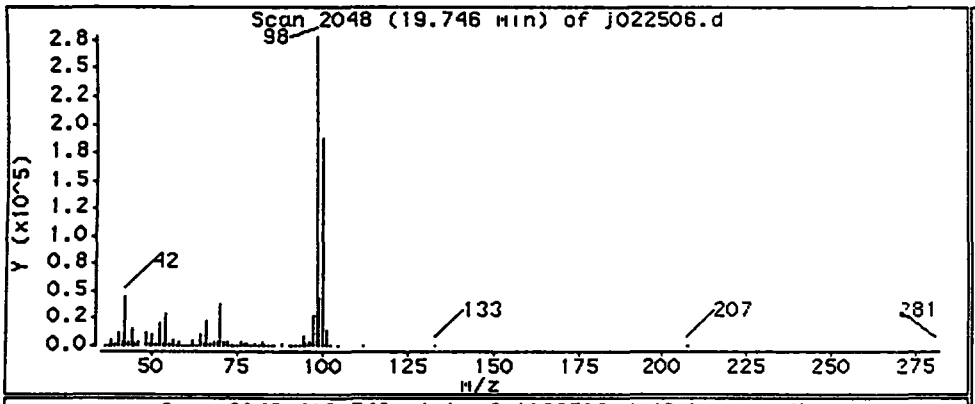
Sample Info: 500mL Can#05407

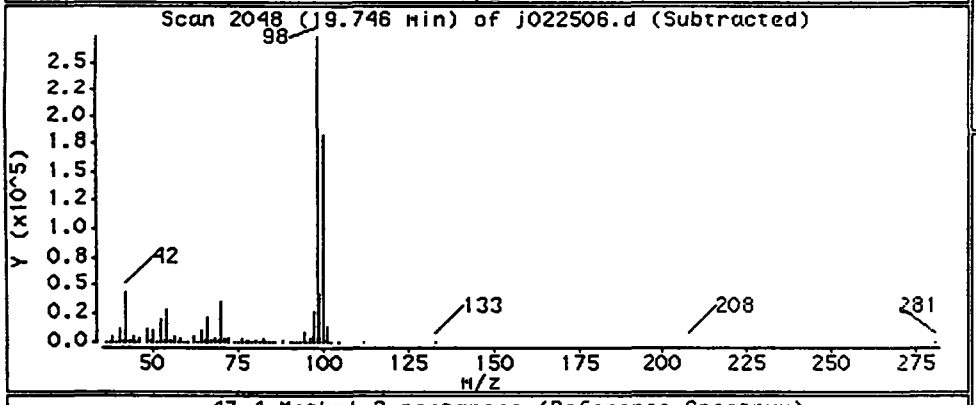
Operator: MH

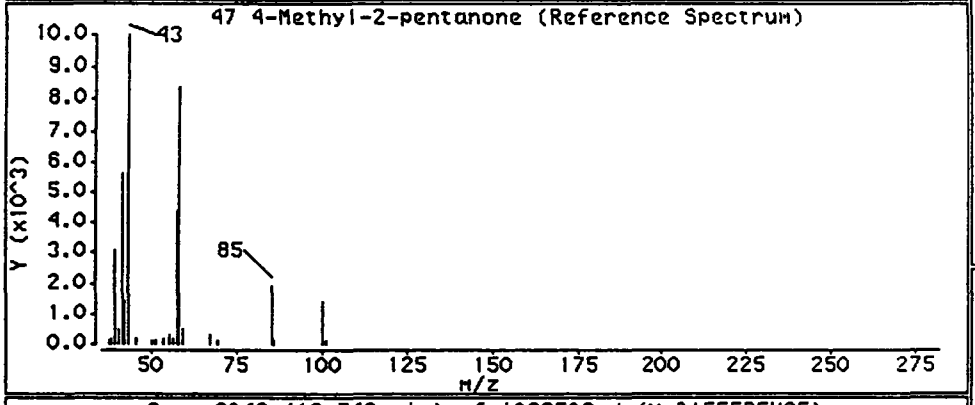
Column phase: RTx-624

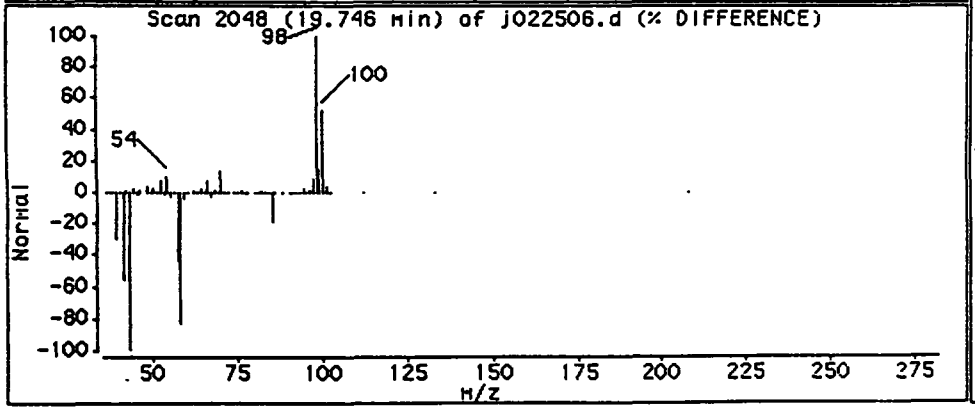
Column diameter: 0.58

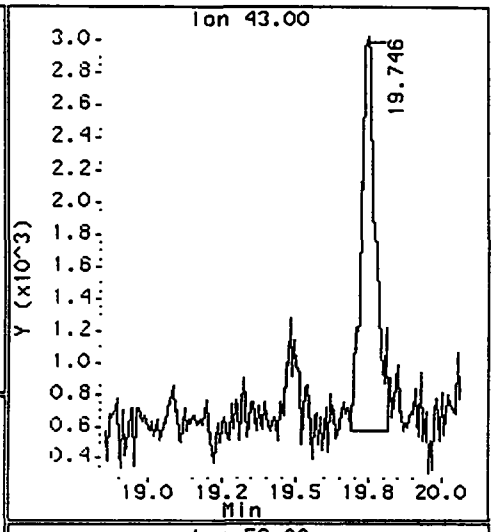
47 4-Methyl-2-pentanone

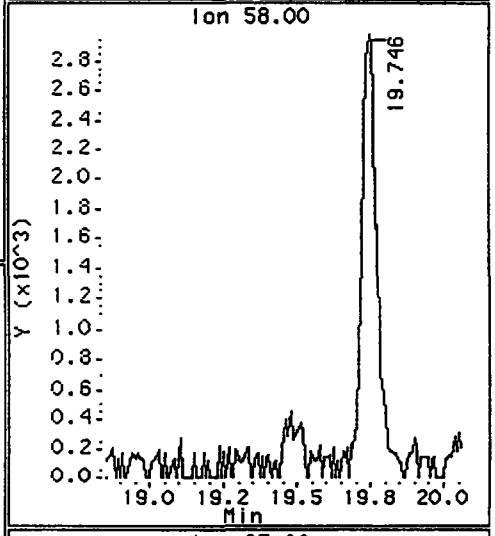


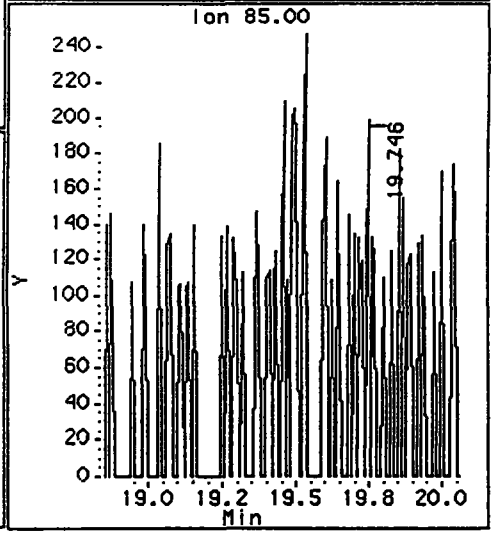








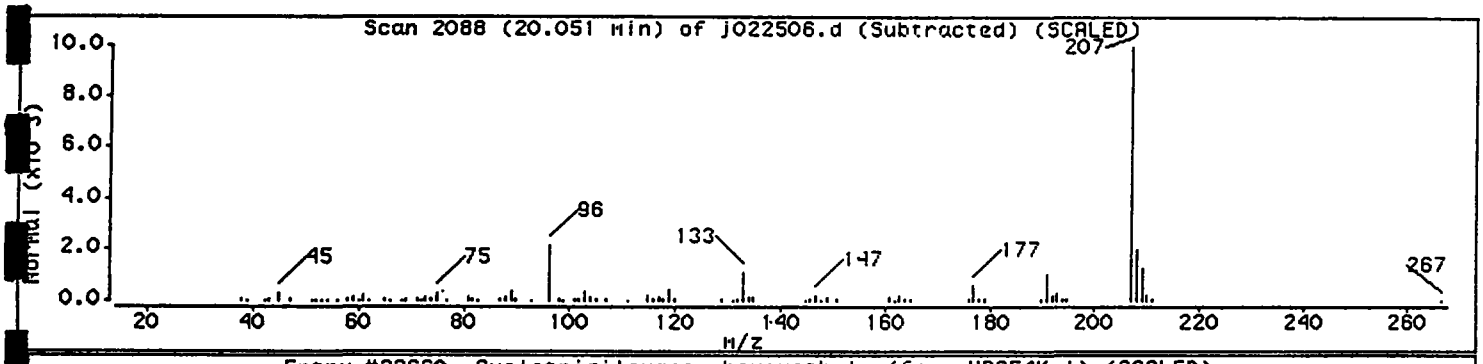


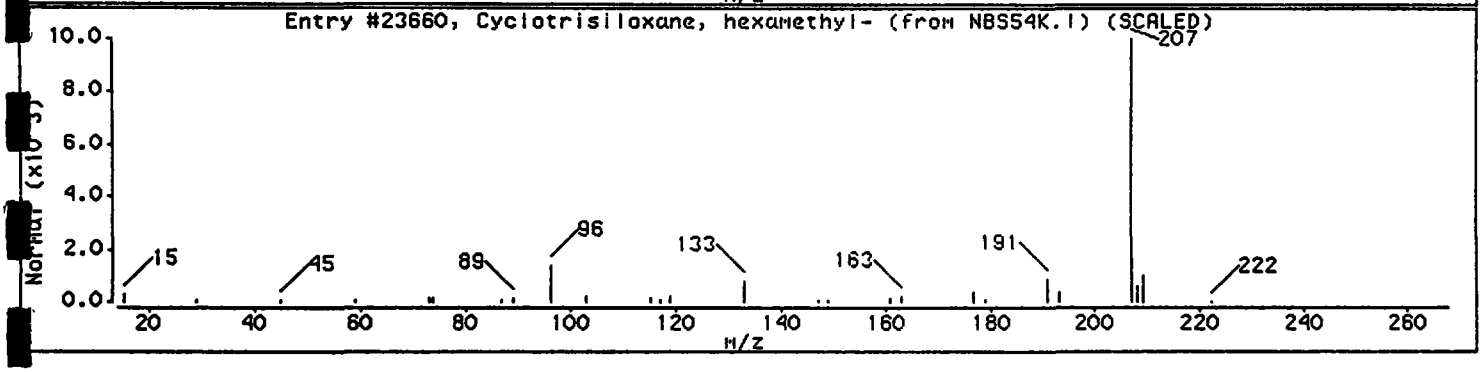


Data File: /chem/msdj.i/j-25feb.b/j022506.d
Date : 25-FEB-97 12:34
Instrument: msdj.i
Client ID: Lab Blank
Column phase: RTx-624

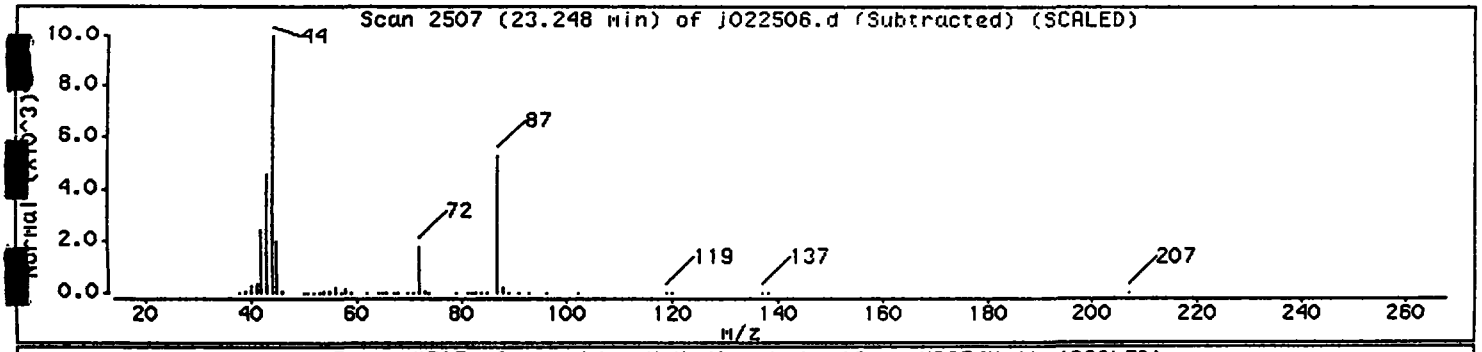
Column diameter: 0.58

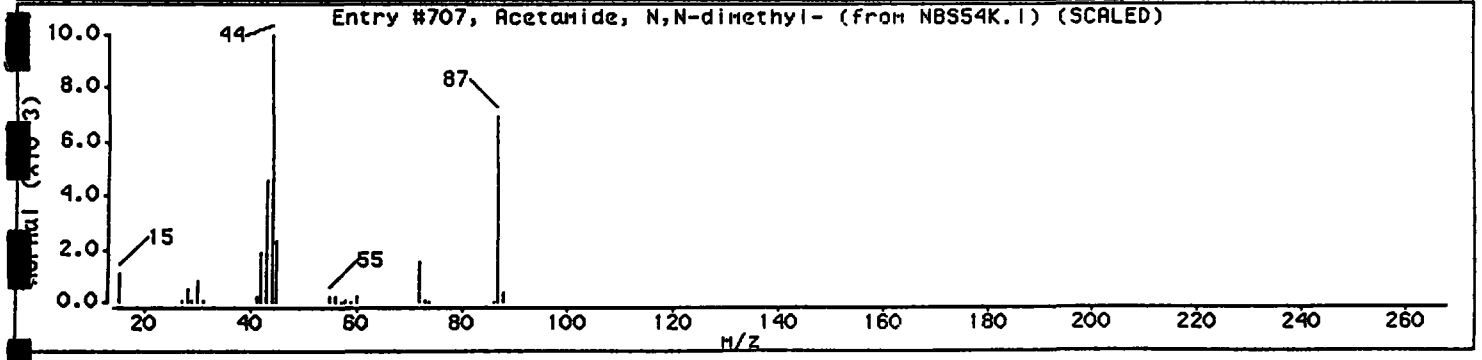
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS54K.I	23660	72





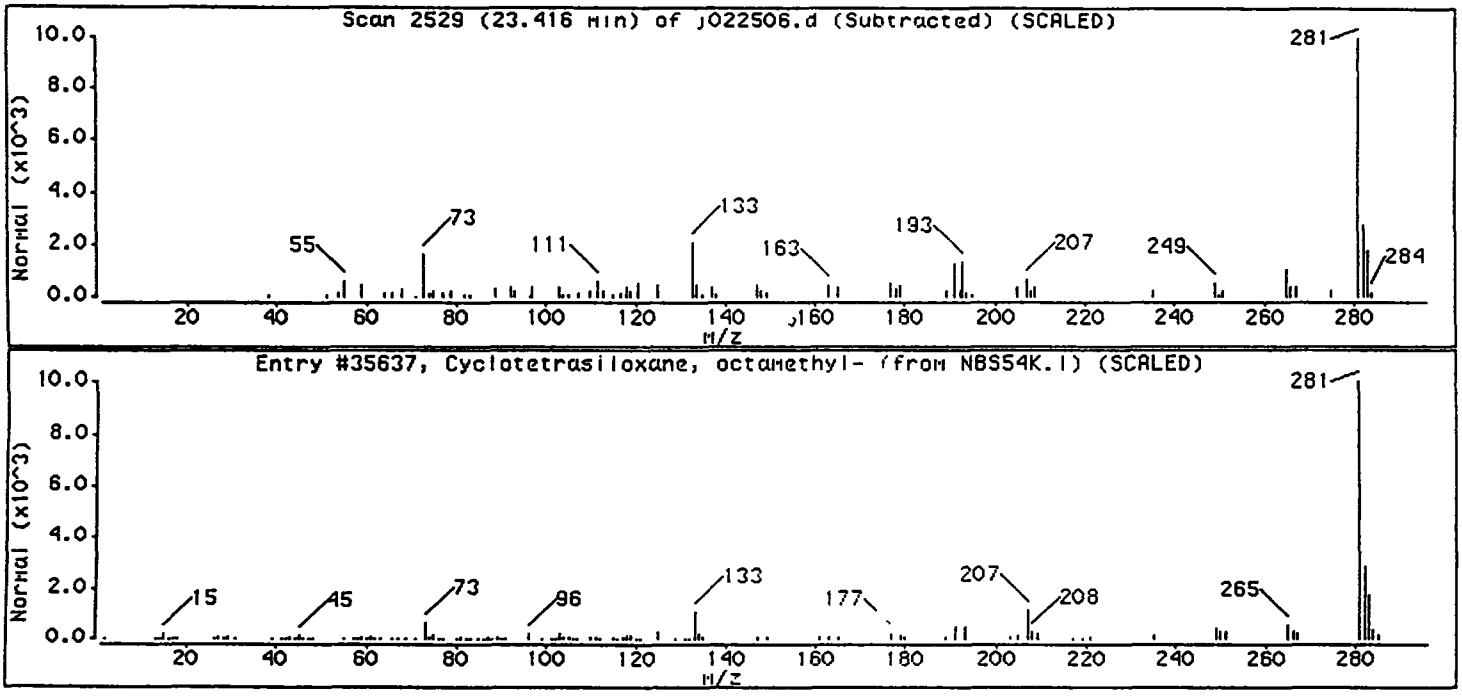
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetamide, N,N-dimethyl-	127-19-5	NBS54K.I	707	86



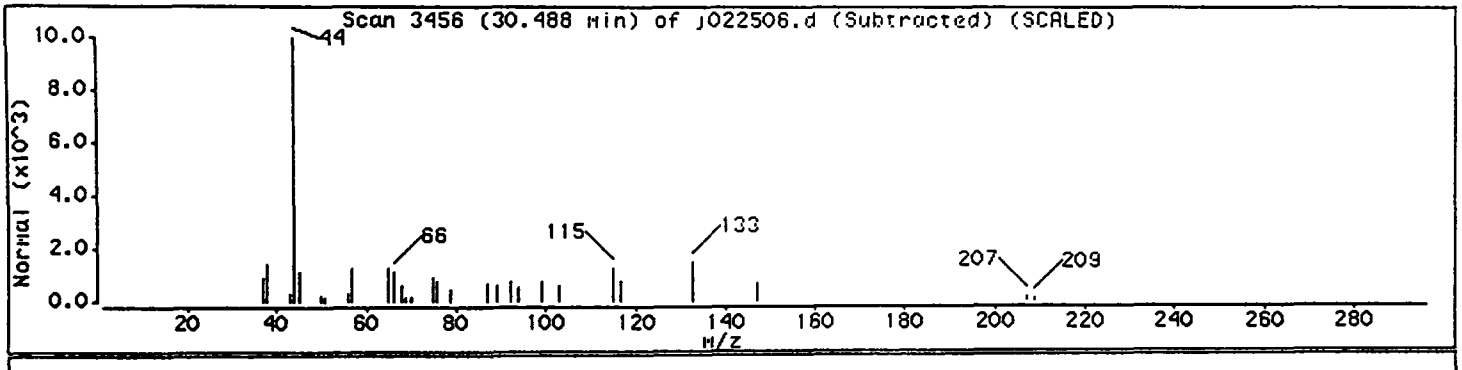


Data File: /chem/msdj.i/j-25feb.b/j022506.d
Date : 25-FEB-97 12:34
Instrument: msdj.i
Client ID: Lab Blank
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS54K.I	35637	83



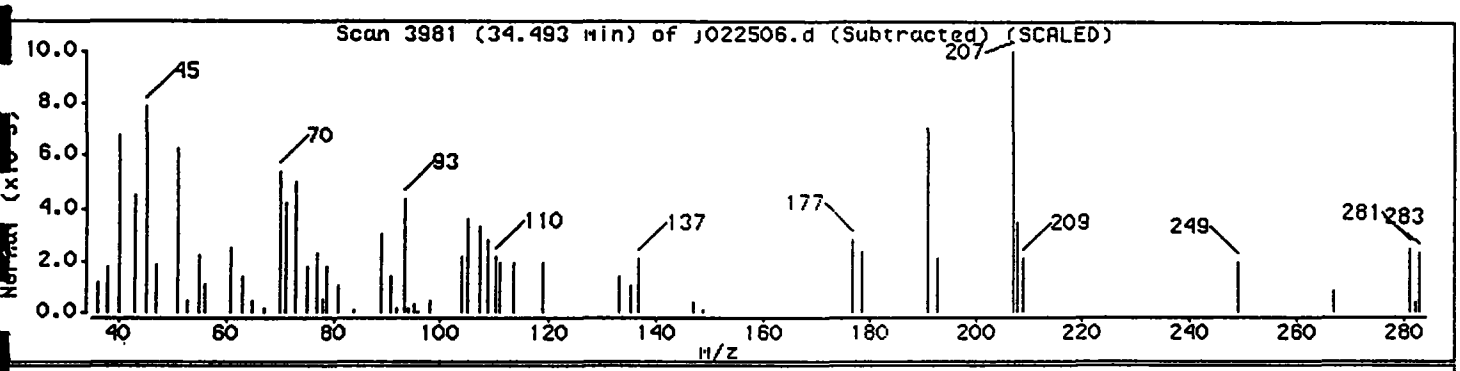
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



Data File: /chem/msdj.i/j-25feb.b/j022506.d
Date : 25-FEB-97 12:34
Instrument: msdj.i
Client ID: Lab Blank
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



0278

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

CHAIN-OF-CUSTODY RECORD

Nº 009949

Page 1 of 1

Contact Person BARBARA DYE
Company PARSONS ES
Address 9906 GULF FREEWAY City HOUSTON State TX Zip 77034
Phone (713) 943-5432 FAX (713) 943-5427
Collected By: Signature Mark Murphy

Project info:
P.O. # 727431-2604-00
Project # 727-131
Project Name BAILEY

Turn Around Time:
☑ Normal
☐ Rush _____ Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	021597 U1	2/15/97 8HR 11MIN	TO-14 SEE ATTACHED LIST	-30	-11	7.5" Hg
02A/AA	021597 D1	2/15/97 8HR 6MIN	" " " "	-30	-8	4.5" Hg

Relinquished By: (Signature) Date/Time: Mark Murphy 2/16/97 0800
Print Name
Relinquished By: (Signature) Date/Time
Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time
Received By: (Signature) Date/Time: Scott Cameron AIR 2/18/97 940

Notes:
RETURNING:
1 - PRESSURE GAUGE
2 - FLOW CONTROLLERS
2 - FILTERS

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Date/Time	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FED EX	0149184 514	[illegible]	2/18/97 940	AMBIENT	GOOD	(Yes) No None N/A	9702139

Form 1293 rev. 06

U.S. ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY PROGRAM
SAMPLE RECEIPT/LOG-IN SHEET

Name: AIR TOXICS LTD. Contract No.:
Lab Code: SAS No.:
Case No.: SDG No.:

ITEM	REMARKS	EPA SAMPLE NO.	SAMPLE TAG NO.	ASSIGNED LAB NO.	REC/VAC PRESS.	REMARKS: SAMP. COND.
. Custody Seals	Present/Absent/	N/A	021597U1	9702139-01A	7.5" Hg	GOOD
	Intact/Broken*	N/A	021597D1	9702139-02A/AA	4.5" Hg	GOOD
2. Custody Seal Numbers	N/A					
. Chain of Custody Records	Present/Absent*					
Traffic Reports or	Present/Absent* 2/19/97 N/A					
Packing List						
5. Airbill	Present/Absent*					
Airbill Numbers:	014 9184 814					
6. Sample Tags	Present/Absent*			2/19/97		
Sample Tag Numbers:	Listed/Not Listed on COC					
7. Sample Condition	Intact/Broken/Leaking*					
8. Does information on COC	Yes/No*					
record, traffic reports, &						
sample tags agree?						
9. Date Received by Lab:	2/18/97					
10. Time Received by Lab:	940					
SAMPLE TRANSFER						
Area #: B						
By: [signature]						
On: 2/18/97						

*If circled, contact SMO and attach record of resolution.

Received By: Log-in Date: 2/18/97
Signature: Scott Amerson
Print Name: SCOTT AMERSON

Reviewed By:
Signature: [signature] Date: 3/4/97
Logbook No.: Logbook Page No.:

FORM AADC-1-ATL

DILUTION FACTORS

0280

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} - [(\text{Initial Pressure ("Hg)}) (14.7 \text{ psi} / 30 \text{ "Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Vacuum ("Hg)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38

Initial Vacuum ("Hg)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59

ATTACHMENT B - PART 2

DOCUMENTATION AIR MONITORING ANALYTICAL DATA

BAILEY SUPERFUND SITE
MONTHLY REPORT FOR MARCH 1997

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 9702192

Work Order Summary

CLIENT: Ms. Barabara Dye
Parsons Engineering Science, Inc.
9906 Gulf Freeway, Suite 100
Houston, TX 77034

BILL TO: Ms. Mary Miller
Parsons Engineering Science, Inc.
9906 Gulf Freeway, Suite 100
Houston, TX 77034

PHONE: 713-943-5432
FAX: 713-943-5427

DATE RECEIVED: 2/25/97
DATE COMPLETED: 3/6/97

INVOICE # 13484
P.O. # 727931-3004-00
PROJECT # 727931 Bailey

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	022297U1	TO-14	10.5 "Hg
02A	022297D1	TO-14	8.5 "Hg
03A	Lab Blank	TO-14	NA

CERTIFIED BY: Linda D. Truman
Laboratory Director

DATE: 3/6/97

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

AIR TOXICS LTD.

SAMPLE NAME: 022297U1

ID#: 9702192-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022809	Date of Collection:	2/22/97
Dil. Factor:	2.06	Date of Analysis:	2/28/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	1.0	Not Detected
cis-1,2-Dichloroethene	0.21	Not Detected
1,1,1-Trichloroethane	0.21	Not Detected
Benzene	0.21	0.46
1,2-Dichloroethane	0.21	Not Detected
Trichloroethene	0.21	Not Detected
1,2-Dichloropropane	0.21	Not Detected
Toluene	0.21	0.72
Tetrachloroethene	0.21	Not Detected
Chlorobenzene	0.21	Not Detected
Ethyl Benzene	0.21	Not Detected
m,p-Xylene	0.21	0.46
o-Xylene	0.21	0.23
Styrene	0.21	Not Detected
Acetone	1.0	8.5
Carbon Disulfide	1.0	1.4
trans-1,2-Dichloroethene	1.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	1.7

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	96	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: 022297D1

ID#: 9702192-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022810	Date of Collection: 2/22/97
Dil. Factor:	1.87	Date of Analysis: 2/28/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.94	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected
1,1,1-Trichloroethane	0.19	0.22
Benzene	0.19	0.26
1,2-Dichloroethane	0.19	Not Detected
Trichloroethene	0.19	Not Detected
1,2-Dichloropropane	0.19	Not Detected
Toluene	0.19	Not Detected
Tetrachloroethene	0.19	Not Detected
Chlorobenzene	0.19	Not Detected
Ethyl Benzene	0.19	Not Detected
m,p-Xylene	0.19	Not Detected
o-Xylene	0.19	Not Detected
Styrene	0.19	Not Detected
Acetone	0.94	9.8
Carbon Disulfide	0.94	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	1.6

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Octafluorotoluene	94	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9702192-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	l022807	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	2/28/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.50	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected
Benzene	0.10	Not Detected
1,2-Dichloroethane	0.10	Not Detected
Trichloroethene	0.10	Not Detected
1,2-Dichloropropane	0.10	Not Detected
Toluene	0.10	Not Detected
Tetrachloroethene	0.10	Not Detected
Chlorobenzene	0.10	Not Detected
Ethyl Benzene	0.10	Not Detected
m,p-Xylene	0.10	Not Detected
o-Xylene	0.10	Not Detected
Styrene	0.10	Not Detected
Acetone	0.50	Not Detected
Carbon Disulfide	0.50	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	88	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

CHAIN-OF-CUSTODY RECORD

Nº 009960

Contact Person: Barbara Dye
Company: Parsons ES
Address: 9906 Gulf Freeway City: Houston State: TX Zip: 77034
Phone: 713 943 5432 FAX: 713 943 5427
Collected By: Signature:

Project info:
P.O. #: 727931-3004-00
Project #: 727931
Project Name: Bailey

Turn Around Time:
☒ Normal
☐ Rush ____ Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	022297U1	Feb 22 97 0730 - 1530	TO-14, Compound list per contract, see ATL	-30	-1	16.5 lbs
02A	022297D1	Feb 22 97 0733 - 1533		-29	-8.5	8.5 lbs

Relinquished By: (Signature) Date/Time: 2-22-97 1630 Print Name: Mike Steiner
Relinquished By: (Signature) Date/Time: Received By: (Signature) Date/Time:
Relinquished By: (Signature) Date/Time: Received By: (Signature) Date/Time: Scott Anderson Air 2/25/97 1010

Notes: return Flow Controllers & 2 -30 Gages
#AT-9302L
AT-1L

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Date/Time	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FEDEX	015044840		2/25/97 1010	AMBIENT	GOOD	(Yes) No None N/A	9702192

Form 1293 rev. 06

LEVEL-IV VALIDATABLE

Volatile Organics Analysis
EPA Method TO-14

COMPLETE SDG FILE (CSF) DOCUMENT INVENTORY SHEET

Lab Name: Air Toxics Ltd.
City/State: Folsom, CA
Lab Code: _____

Contract: _____
SDG: _____
Work Order: 9702192

	Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Region
1. Inventory Sheet (ATL-2) (Do Not Number)			√	
2. Cover Page & Laboratory Narrative (Do Not Number)			√	
3. QC Summary				
a. Surrogate Recovery (FORM II-ATL)	–	–	–	
b. Sample Results/Sample Results Duplicate (FORM III-DUP-ATL)	–	–	–	
c. Method Blank Summary (FORM IV-ATL)	–	–	–	
d. GC/MS Instrument Performance Check (BFB Tune) + Run Logs	1	4	√	
e. Internal Standard Area and Retention Time Summary (FORM VIII-ATL)	5	69	√	
4. Sample Results (FORM I-ATL/FORM I-TIC-ATL + Raw Data)	–	–	–	
5. Standards & Raw QC Data				
a. Initial Calibration Data (Summary Sheet + Raw Data)	70	119	√	
b. Continuing Calibration Data (Summary Sheet + Raw Data)	120	147	√	
c. BFB Tune (Raw Data)	148	157	√	
d. Blank Data (FORM I-ATL + Raw Data)	158	177	√	
6. Canister Certification (FORM ATL-3 + Raw Data)	–	–	–	
7. Shipping/Receiving Documents:				
a. Airbill (No. of Shipments ____)	–	–	–	
b. Chain-of-Custody Records	178	178	√	
c. Sample Tags	–	–	–	
d. Sample Log-In Sheet	179	179	√	
Misc. Shipping/Receiving Records (list individual records)				
_____	–	–	–	
_____	–	–	–	
8. Internal Lab Sample Transfer Records & Tracking Sheets	–	–	–	
9. Internal Original Sample Preparation & Analysis Records (describe or list):				
a. Preparation Records _____	–	–	–	
b. Analysis Records Run Logs	–	–	–	
10. Other Records (decribe or list)				
a. Telephone Communication Log	–	–	–	
b. Dilution Factors	180	180	√	
_____	–	–	–	

Comments:

_____

_____

Completed by:

Julie R Bellendir (Signature)	Julie R. Bellendir / Document Control (Print Name & Title)	3/6/97 (Date)

FORM ATL-2

LABORATORY NARRATIVE
Analysis of VOLATILE ORGANICS by EPA Method TO-14
Work Order #9702192

Two 6L Summa™ Canister samples were received on February 25, 1997. The laboratory performed analysis via EPA Method TO-14 using a capillary direct quadrupole GC/MS in the full scan mode. The method involves cryofocusing up to 0.5 L of air at liquid argon temperatures. The cryofocused aliquot is then flash vaporized to 225°C and swept through a hydrophobic drier to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. Please see the data sheets for the analytical detection limit. Library searching of the top ten tentatively identified compounds was not performed per the client's request.

The concentrations present in the samples were calculated using the technique of internal standards. Three internal standards (Bromochloromethane, 1,4-Difluorobenzene and Chlorobenzene-d5) were spiked at 5.0 ppbv into every standard, blank and sample. Three surrogates (Octafluorotoluene, Toluene-d8 and 4-Bromofluorobenzene) were also spiked at 5.0 ppbv.

The analytical dilution factor reported on the data sheet is derived from a combination of canister receipt vacuum and laboratory dilution. All canisters are pressurized to 5 psi (unless they are received at a pressure greater than 5psi) prior to analysis. This results in an effective dilution factor governed by the equation:

$$DF_1 = \frac{14.7 \text{ psi} + 5 \text{ psi}}{14.7 \text{ psi} - ((\text{Receipt Pressure})(14.7)/30)}$$

A table of canister pressure dilution factors appears at the end of this deliverable. Should additional dilution be required to ensure that all compounds are within the analytical curve, the additional dilution factor (DF_2) would be multiplied by the pressurization dilution factor. This would result in the dilution factor shown on the report.

$$DF_1 \times DF_2 = DF \text{ Total}$$

Laboratory duplicates, when performed, are noted by the suffix - Duplicate.

EPA Method TO-14 does not specify Initial Calibration and Continuing Calibration Check (CCC) criteria. The laboratory established criteria is that all compounds must be less than or equal to 30% RSD in the Initial Calibration Curve prior to analysis of samples. The average relative response factors from the initial calibration curve are used to calculate results. The Laboratory Standard Operating Procedure requires that 90% of the standard TO-14 target analytes must be within 70% to 130% Recovery in the CCC. For the non-standard TO-14 compounds (Acetone, Carbon Disulfide, trans-1,2-Dichloroethene and 2-Butanone), 80% must be witin 60% to 140% Recovery in the CCC. A new analytical curve is analyzed if these criteria are not met.

The laboratory used automated data transfer to create the forms found in the package. The first set of quantitation pages for each sample are the reduced data. Next, an audit history has been included to show all changes made to the unreduced data and the analyst performing the change. Finally, the unreduced quantitation pages are included.

GC/MS Calculations:

$$RRF = \frac{A_x}{A_{is}} \times \frac{C_{is}}{C_x}$$

Where: RRF - Relative Response Factor
A_x - Area of Characteristic Ion of Compound
A_{is} - Area of Characteristic Ion of Internal Standard
C_{is} - Concentration of Internal Standard
C_x - Concentration of Compound

Calculations continued on next page.

$$C_{sample} = \frac{A_{sample}}{A_{is}} \times \frac{C_{is}}{RRF} \times DF$$

Where: C_{sample} - Conc. of Compound in Sample
A_{sample} - Area of Cmpd's Ion in Sample
A_{is} - Area of Ion of Internal Std.
C_{is} - Conc. of Internal Standard
RRF - Relative Response Factor (the average RRF from the Initial Calibration Curve)
DF - Dilution Factor

All internal standard areas and retention times were within the allowed windows. All surrogate recoveries were within the allowed windows.

There were no out of the ordinary circumstances to report.

Five qualifiers may have been used on the data analysis sheets and indicate as follows:

E - Exceeds instrument calibration range, but within linear range.
S - Saturated Peak
J - Reported below the detection limit, but supported by mass spectra.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
Q - Exceeds Quality Control Limits of 70% to 130%

Table 1

Client Sample No.	Lab Sample ID	Date Collected	Date Received	Date Analyzed	Receipt Vacuum ("Hg/psi)	Final Pressure (psi)
022297U1	9702192-01A	2/22/97	2/25/97	2/28/97	10.5 "Hg	5 psi
022297D1	9702192-02A	2/22/97	2/25/97	2/28/97	8.5 "Hg	5 psi

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION-
BROMOFLUOROBENZENE (BFB)

0001

Lab Name: AIR TOXICS LIMITED
Lab Code: _____
Lab File ID: J01C903
Instrument ID: MSD J
Matrix: Ambient Air

SDG No: _____
Contract: _____
BFB Injection Date: 1-9-97
BFB Injection Time: 09:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.19
75	30.0 - 60.0% of mass 95	45.57
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.57
173	< 2.0% of mass 174	(0.00
174	> 50.0% of mass 95	71.18
175	5.0 - 9.0% of mass 174	(6.99
176	> 95.0%, but < 101.0% of mass 174	(96.77
177	5.0 - 9.0% of mass 176	(6.97

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

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

	EPA SAMPLE ID.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED
01		STD 296-25 (0.1 ppbv)	J01C904	1-9-97	09:24
02		STD 296-25 (0.5 ppbv)	J01C905	1-9-97	10:04
03		STD 296-25 (5.0 ppbv)	J01C906	1-9-97	10:44
04		STD 296-25 (100 ppbv)	J01C907	1-9-97	11:27
05		STD 296-25 (250 ppbv)	J01C908	1-9-97	12:08
06		STD 296-25 (500 ppbv)	J01C909	1-9-97	12:48
07		STD 296-25 (750 ppbv)	J01C910	1-9-97	13:31
08		System Blank	J01C911	1-9-97	14:11
09		TC14-0001 (125.0 ppbv)	J01C912	1-9-97	14:51
10		System Blank	J01C913	1-9-97	15:41
11		TC14-0001 (25.0 ppbv)	J01C914	1-9-97	16:21
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					

OJECT _____ Notebook No. 299

Continued From Page —

File	Sample Name / Client	Can #	Dilution	Amount	D.F.	Init.
JQ1C501	Lab Blank	94300		500.0 ml	1.0	FA
JQ1C502	Lab Blank	94300		500.0 ml	1.0	FA
JQ1C503	BFB-25 100 ppbv	(5.0 ppbv)		25.0 ml	2.0	FA
JQ1C504	BFB-25 100 ppbv			50.0 ml	2.0	FA
JQ1C505	Lab Blank	94300		500.0 ml	1.0	FA

FA 1-7-97

JQ1C701	System Blank	Bag		250.0 ml	1.0	FA
JQ1C702	BFB Tune Check	=175-3-25		2.0 ml	1.0	FA
JQ1C703	Can Cert.	12786		1.00L	1.0	FA
JQ1C704	Can Cert.	05385		1.00L	1.0	FA
JQ1C705	Can Cert.	12703		1.00L	1.0	FA
JQ1C706	Can Cert.	14111		1.00L	1.0	FA
JQ1C707	Can Cert.	12763		1.00L	1.0	FA
JQ1C708	Can Cert.	25711		1.00L	1.0	FA
JQ1C709	Can Cert.	12772		1.00L	1.0	FA

FA 1-9-97

JQ1C901	Lab Blank	94300		500.0ml	1.0	FA
JQ1C902	Lab Blank	94300		500.0 ml	1.0	FA
JQ1C903	BFB Tune Check	=175-3-25		2.0 ml	1.0	FA
JQ1C904	=296-25 10X ppbv	(0.1 ppbv)		0.5 ml	1.0	FA
JQ1C905	=296-25 100 ppbv	(2.5 ppbv)		2.5 ml	1.0	FA
JQ1C906	=296-25 100 ppbv	(5.0 ppbv)		25.0 ml	1.0	FA
JQ1C907	=296-25 100 ppbv	(10.0 ppbv)		50.0 ml	1.0	FA
JQ1C908	=296-25 100 ppbv	(25.0 ppbv)		125.0 ml	1.0	FA
JQ1C909	=296-25 100 ppbv	(50.0 ppbv)		250.0 ml	1.0	FA
JQ1C910	=296-25 100 ppbv	(75.0 ppbv)		375.0 ml	1.0	FA
JQ1C911	System Blank	Bag		250.0 ml	1.0	FA
JQ1C912	TO14-0001 1.0 ppmv	(25.0 ppbv)		12.5 ml	4.0	FA

Continued on Page

Read and Understood By

Signed _____ Date _____ Signed _____ Date _____

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

REVIEWED BY
MAR 3 1997
FRANCISCO AYALA

Lab Name: AIR TOXICS LIMITED
Lab Code:
Lab File ID: J022F01
Instrument ID: MSD-J
Matrix: Ambient Air

SDG No:
Contract:
BFB Injection Date: 2-28-97
BFB Injection Time: 8:37

0003

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.13
75	30.0 - 60.0% of mass 95	47.66
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.48
173	< 2.0% of mass 174	(0.13) 1
174	> 50.0% of mass 95	66.70
175	5.0 - 9.0% of mass 174	(7.74) 1
176	> 95.0%, but < 101.0% of mass 174	(96.36) 1
177	5.0 - 9.0% of mass 176	(6.56) 2

1 - Value is % mass 174

2 - Value is % mass 176

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

	EPA SAMPLE ID.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED
01		System Blank	J022F02	2-28-97	9:07
02		V.C. 9.7 ppbv std. (0.015ppbV)	J022F03	2-28-97	9:58
03		#296-71 100ppbV	J022F04	2-28-97	13:04
04		System Blank	J022F05	2-28-97	14:02
05		Canister clean gas check	J022F06	2-28-97	14:53
06		Lab Blank	J022F07	2-28-97	15:36
07		9702192-02A	J022F08	2-28-97	~~1704~~ DP
08		9702192-01A	J022F09	2-28-97	1704
09		9702192-02A	J022F10	2-28-97	1747
10		SYSTEM BCANK	J022811	2-28-97	
11		CanCert #10986	J022812	2-28-97	1914
12		CanCert #10985	J022813	2-28-97	1957
13		CanCert #13664	J022814	2-28-97	2040
14		CanCert #13344	J022815	2-28-97	2123
15		STAND BY	J022816	2-28-97	
16		SYSTEM BLANK	J022817	2-28-97	
17		SYSTEM BLANK	J022818	2-28-97	
18		SYSTEM BLANK	J022819	2-28-97	
19		LAB BLANK	J022820	2-28-97	
20		SYSTEM BLANK	J022821	2-28-97	
21					
22					

File #	Sample Name/Client	Can #	Pressure	Amount	Dil.	Initial
J022714	LAB BLANK			500 mL	1.0	J
J022715	System BLANK			250 mL	1.0	J
J022716	LAB BLANK			500 mL	1.0	J
			Miss [illegible] 2/28/97			
J022801	~~BFB Tune Check~~ MH 2/28/97 ~~Syst~~ BFB Tune Check			2 µl	1.0	MH
J022802	System Blank	Bag		250 ml	1.0	MH
~~J022803~~	~~#296-71 100ppbv~~		(15ppbv)	~~25 µl~~	MH 2/28/97	
J022803	V.C std conditing bag (9.7ppbv)		(15ppbv)	0.78 ml	1.0	MH
J022804	#296-71 100ppbv TO14 std			25 ml	1.0	MH
J022805	System Blank	Bag		250 ml	1.0	MH
J022806	Canister clean gas check	22494		500 ml	1.0	MH
J022807	Lab Blank	05407		500 ml	1.0	MH
R J022808	9702192-02A/Parsons	13668	8.5" → 5 psi	100 ml	MH 2/28/97 9.35	MH
J022809	9702192-01A	439	10.5" → 5 psi	500 ml	2.06	MH
J022810	9702192-02A	13668	8.5" → 5 psi	500 ml	1.87	JP
J022811	SYSTEM BLANK			250 ML	1.0	JP
J022812	Con Cert # 10986			500 ML	1.0	JP
J022813	Con Cert # 10985			500 ML	1.0	JP
J022814	Con Cert # 13664			500 ML	1.0	JP
J022815	Con Cert # 13344			500 ML	1.0	JP
J022816	Stand By					JP
J022817	System Blank			250 mL	1.0	J
J022818	SYSTEM BLANK			250 mL	1.0	J
J022819	SYSTEM BLANK			250 mL	1.0	J
J022820	LAB BLANK			500 mL	1.0	J
J022821	SYSTEM BLANK			250 ML	1.0	JP
			Miss [illegible] 3/3/97			
J030301	BFB Tune Check #275-8-25			2 µl	1.0	MH
J030302	#296-71 100ppbv TO14 std			25 ml	1.0	MH
J030304	#296-71 100ppbv TO14 std			25 ml	1.0	MH
J030303	System Blank	Bag		250 ml	1.0	MH

Continued on Page

Read and Understood By

Signed Date Signed Date

AIR TOXICS LTD.

SAMPLE NAME: 022297U1

ID#: 9702192-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022809	Date of Collection:	2/22/97
Dil. Factor:	2.06	Date of Analysis:	2/28/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	1.0	Not Detected
cis-1,2-Dichloroethene	0.21	Not Detected
1,1,1-Trichloroethane	0.21	Not Detected
Benzene	0.21	0.46
1,2-Dichloroethane	0.21	Not Detected
Trichloroethene	0.21	Not Detected
1,2-Dichloropropane	0.21	Not Detected
Toluene	0.21	0.72
Tetrachloroethene	0.21	Not Detected
Chlorobenzene	0.21	Not Detected
Ethyl Benzene	0.21	Not Detected
m,p-Xylene	0.21	0.46
o-Xylene	0.21	0.23
Styrene	0.21	Not Detected
Acetone	1.0	8.5
Carbon Disulfide	1.0	1.4
trans-1,2-Dichloroethene	1.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	1.0	1.7

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	96	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	104	70-130

Data File: /chem/msdj.i/j-28feb.b/j022809.d
Report Date: 03-Mar-1997 10:53

MH 3/3/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-28feb.b/j022809.d
Lab Smp Id: 9702192-01A
Inj Date : 28-FEB-1997 17:04
Operator : MH
Smp Info : 500mL Can#439
Misc Info : 10.5" Hg-5.0 psi Parsons Eng. Sci.
Comment :
Method : /chem/msdj.i/j-28feb.b/to140109.m
Meth Date : 28-Feb-1997 14:41 mhe
Cal Date : 09-JAN-1997 12:48
Als bottle: 1
Dil Factor: 2.060
Integrator: HP RTE
Target Version: 3.12
Concentration Formula: Uf * Vf

Client Smp ID: 022297U1

Inst ID: msdj.i

Quant Type: ISTD
Cal File: j010909.d

Compound Sublist: Parsons.sub
Sample Matrix: AIR

REVIEWED BY
MAR 3 1997
FRANCISCO AYALA

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.417	16.358 (1.000)	130	222536	5.0			100.00	8990
16.417	16.358 (0.000)	128	50624			27.69- 127.69	22.75	
16.417	16.358 (0.000)	49	134182			149.56- 249.56	60.30	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.936	16.892 (1.032)	217	496279	4.8	4.8		100.00	8133
16.936	16.892 (0.000)	186	103400			14.61- 114.61	20.84	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.753	17.700 (1.000)	114	987783	5.0			100.00	9167
17.753	17.700 (0.000)	88	59072			0.00- 68.88	5.98	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.774	19.730 (1.114)	98	965844	5.4	5.4		100.00	9947
19.774	19.730 (0.000)	70	36800			0.00- 63.82	3.81	
19.774	19.730 (0.000)	100	183232			14.95- 114.95	16.97	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.842	21.790 (1.000)	117	876171	5.0			100.00	9929
21.842	21.790 (0.000)	82	148288			13.86- 113.86	16.92	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
65 Bromofluorobenzene					CAS #: 460-00-4			
23.673	23.621 (1.084)	95	704692	5.2	5.2		100.00	7954
23.673	23.621 (0.000)	174	91368			5.46- 105.46	12.97	
23.673	23.621 (0.000)	176	86632			7.57- 107.57	12.29	
16 Acetone					CAS #: 67-64-1			
13.198	13.092 (0.804)	43	364501	4.1	8.5		100.00	
13.190	13.092 (0.803)	58	107603			0.00- 79.57	29.52	
17 Carbon Disulfide					CAS #: 75-15-0			
13.351	13.207 (0.813)	76	111091	0.66	1.4		100.00	7960
28 2-Butanone					CAS #: 78-93-3			
16.067	15.991 (0.979)	72	20128	0.82	1.7		100.00	7789
16.067	15.991 (0.000)	43	24766			469.65- 569.65	123.04	
16.067	15.991 (0.000)	57	1591			0.00- 83.89	7.90	
37 Benzene					CAS #: 71-43-2			
17.302	17.250 (0.975)	78	41951	0.22	0.46		100.00	9422
17.302	17.250 (0.000)	77	2667			0.00- 74.19	6.36	
51 Toluene					CAS #: 108-88-3			
19.866	19.821 (1.119)	92	40144	0.35	0.72		100.00	8109
19.866	19.821 (0.000)	91	20224			112.85- 212.85	50.38	
61 m,p-Xylene					CAS #: 108-38-3			
22.132	22.080 (1.013)	106	20358	0.22	0.46		100.00	
22.132	22.080 (1.013)	91	42918			164.96- 264.96	210.82	
62 o-Xylene					CAS #: 95-47-6			
22.788	22.736 (1.043)	106	6395	0.11	0.23		100.00	8699
22.788	22.736 (0.000)	91	3379			172.75- 272.75	52.84	

Audit History For: /chem/msdj.i/j-28feb.b/j022809.d

MH
3/3/97

Change Date: 28-Feb-97 17:30
Change Made by: Automation

Parameter: ChemLan Data Transfer
Old Value:
New Value:
Reason For Change: MS Data from Instrument: msdj.i

Change Date: 28-Feb-97 17:30
Change Made by: Automation

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-28feb.b/to140109.m
Reason For Change: Complete Target Compound Processing

Change Date: 28-Feb-97 17:34
Change Made by: jparker

Parameter: date
Old Value: 28-FEB-97 17:04
New Value: 28-FEB-1997 17:04
Reason For Change: N/A

Change Date: 28-Feb-97 17:34
Change Made by: jparker

Parameter: Misc Information
Old Value:
New Value: 10.5" Hg-5.0 psi Parsons Eng. Sci.
Reason For Change: N/A

Change Date: 28-Feb-97 17:34
Change Made by: jparker

Parameter: Compound Sublist
Old Value: AT.sub
New Value: Parsons.sub
Reason For Change: N/A

Change Date: 28-Feb-97 17:34
Change Made by: jparker

Parameter: Acquisition Operator
Old Value: MH
New Value: JMP
Reason For Change: N/A

Change Date: 28-Feb-97 17:34
Change Made by: jparker

Parameter: Sample Info
Old Value: 9702192-01A 500mL Can#439 10.5"-5psi 022297U1
New Value: 500mL Can#439
Reason For Change: N/A

Change Date: 28-Feb-97 17:34
Change Made by: jparker

Parameter: Lab ID
Old Value:
New Value: 9702192-01A
Reason For Change: N/A

Change Date: 28-Feb-97 17:34
Change Made by: jparker

Parameter: Client ID
Old Value: VSTD150
New Value: 022297U1
Reason For Change: N/A

Change Date: 28-Feb-97 17:34
Change Made by: jparker

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-28feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 28-Feb-97 17:34
Change Made by: jparker

Parameter: Best Hit for Methylene Chloride changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 17:34
Change Made by: jparker

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 17:35
Change Made by: jparker

Parameter: Best Hit for 1,1,1-Trichlorethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 17:35
Change Made by: jparker

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 17:35
Change Made by: jparker

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #2
New Value: Compound Undetected

Reason For Change: N/A

Change Date: 28-Feb-97 17:35
Change Made by: jparker

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 17:35
Change Made by: jparker

Parameter: Best Hit for Ethyl Benzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 17:35
Change Made by: jparker

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 17:37
Change Made by: jparker

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-28feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Manual reintegration of Tetrachloroethene (Signal 1)
Old Value: No previous peak at 20.659
New Value: New Area/Time: 621 / 20.66
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Manual reintegration of Chlorobenzene (Signal 1)
Old Value: No previous peak at 21.872
New Value: New Area/Time: 423 / 21.87
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Best Hit for Styrene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Manual reintegration of Styrene (Signal 1)
Old Value: No previous peak at 22.780
New Value: New Area/Time: 978 / 22.78
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Best Hit for Styrene changed
Old Value: Old Hit #1
New Value: Compound Undetected

Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Best Match for Unknown compound at 26.488 min. changed.
Old Value: Old match: Phenol
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Best Match for Unknown compound at 34.903 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 03-Mar-97 10:42
Change Made by: mhe

Parameter: Best Match for Unknown compound at 23.276 min. changed.
Old Value: Old match: Acetamide, N,N-dimethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 03-Mar-97 10:47
Change Made by: mhe

Parameter: Data Name
Old Value: /chem/msdj.i/j-28feb.b/j022809.d
New Value: /chem/msdj.i/j-28feb.b/j022809a.d
Reason For Change: Copied/Renamed Data

Change Date: 03-Mar-97 10:53
Change Made by: mhe

Parameter: Acquisition Operator
Old Value: JMP
New Value: MH
Reason For Change: N/A

Change Date: 03-Mar-97 10:53
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-28feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 03-Mar-97 10:54
Change Made by: mhe

Parameter: Data Name
Old Value: /chem/msdj.i/j-28feb.b/j022809.d
New Value: /chem/msdj.i/j-28feb.b/j022809a.d
Reason For Change: Copied/Renamed Data

Data File: /chem/msdj.i/j-28feb.b/j022809.d MH 3/3/97 Page 1
Report Date: 03-Mar-1997 10:54

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-28feb.b/j022809.d
Lab Smp Id: 9702192-01A Client Smp ID: 022297U1
Inj Date : 28-FEB-97 17:04
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#439
Misc Info : 10.5" Hg-5.0 psi Parsons Eng. Sci.
Comment :
Method : /chem/msdj.i/j-28feb.b/to140109.m
Meth Date : 28-Feb-1997 14:41 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 2.060
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.417	16.358 (1.000)	130	222536	5.0			100.00	8990
16.417	16.358 (0.000)	128	50624			27.69- 127.69	75.86	
16.417	16.358 (0.000)	49	134182			149.56- 249.56	201.06	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.936	16.892 (1.032)	217	496279	4.8	4.8		100.00	8133
16.936	16.892 (0.000)	186	103400			14.61- 114.61	64.94	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.753	17.700 (1.000)	114	987783	5.0			100.00	9167
17.753	17.700 (0.000)	88	59072			0.00- 68.88	20.03	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.774	19.730 (1.114)	98	965844	5.4	5.4		100.00	9947
19.774	19.730 (0.000)	70	36800			0.00- 63.82	13.16	
19.774	19.730 (0.000)	100	183232			14.95- 114.95	65.51	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.842	21.790 (1.000)	117	876171	5.0			100.00	9929
21.842	21.790 (0.000)	82	148288			13.86- 113.86	64.90	

Data File: /chem/msdj.i/j-28feb.b/j022809.d
Report Date: 03-Mar-1997 10:54

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 65 Bromofluorobenzene					CAS #: 460-00-4			
23.673	23.621 (1.084)	95	704692	5.2	5.2		100.00	7954
23.673	23.621 (0.000)	174	91368			5.46- 105.46	56.14	
23.673	23.621 (0.000)	176	86632			7.57- 107.57	53.23	
16 Acetone					CAS #: 67-64-1			
13.198	13.092 (0.804)	43	364501	4.1	8.5		100.00	
13.190	13.092 (0.803)	58	107603			0.00- 79.57	29.52	
17 Carbon Disulfide					CAS #: 75-15-0			
13.351	13.207 (0.813)	76	111091	0.66	1.4		100.00	7960
20 Methylene Chloride					CAS #: 75-09-2			
14.014	13.932 (0.854)	84	2952	0.058	0.12 <		100.00	3405(a)
14.014	13.932 (0.000)	49	1466			108.05- 208.05	143.44	
14.014	13.932 (0.000)	51	576			0.00- 96.86	56.36	
28 2-Butanone					CAS #: 78-93-3			
16.067	15.991 (0.979)	72	20128	0.82	1.7		100.00	7789
16.067	15.991 (0.000)	43	24766			469.65- 569.65	471.19	
16.067	15.991 (0.000)	57	1591			0.00- 83.89	30.27	
33 1,1,1-Trichlorethane					CAS #: 71-55-6			
16.791	16.724 (1.023)	97	5763	0.056	0.11 <		100.00	7236(a)
16.791	16.724 (0.000)	99	1116			15.93- 115.93	64.62	
37 Benzene					CAS #: 71-43-2			
17.302	17.250 (0.975)	78	41951	0.22	0.46		100.00	9422
17.302	17.250 (0.000)	77	2667			0.00- 74.19	20.78	
38 1,2-Dichloroethane					CAS #: 107-06-2			
17.745	17.258 (1.000)	62	38359	0.52	1.1		100.00	3489(Q)
17.745	17.258 (0.000)	64	11423			0.00- 80.62	96.97	
51 Toluene					CAS #: 108-88-3			
19.866	19.821 (1.119)	92	40144	0.35	0.72		100.00	8109
19.866	19.821 (0.000)	91	20224			112.85- 212.85	168.44	
60 Ethyl Benzene					CAS #: 100-41-4			
21.964	21.919 (1.006)	106	5021	0.054	0.11 <		100.00	(a)
21.972	21.919 (1.006)	91	18265			296.25- 396.25	363.76	
61 m,p-Xylene					CAS #: 108-38-3			
22.132	22.080 (1.013)	106	20358	0.22	0.46		100.00	
22.132	22.080 (1.013)	91	42918			164.96- 264.96	210.81	
62 o-Xylene					CAS #: 95-47-6			
22.788	22.736 (1.043)	106	6395	0.11	0.23		100.00	8699

Data File: /chem/msdj.i/j-28feb.b/j022809.d
Report Date: 03-Mar-1997 10:54

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
62 o-Xylene (continued)									
22.788	22.736	(0.000)	91	3379			172.75- 272.75	213.46	

QC Flag Legend

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

Data File: /chem/msdj.i/j-28feb.b/j022809.d
Report Date: 28-Feb-1997 17:37

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-28feb.b/j022809.d
Lab Smp Id: 9702192-01A Client Smp ID: 022297U1
Inj Date : 28-FEB-1997 17:04
Operator : JMP Inst ID: msdj.i
Smp Info : 500mL Can#439
Misc Info : 10.5" Hg-5.0 psi Parsons Eng. Sci.
Comment :
Method : /chem/msdj.i/j-28feb.b/to140109.m
Meth Date : 28-Feb-1997 14:41 mhe
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 2.060 Target Version: 3.12
Integrator: HP RTE Compound Sublist: Parsons.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

ISTD		RT	AREA	AMOUNT
* 30	Bromochloromethane	16.417	1594489	5.000
* 40	1,4-Difluorobenzene	17.753	2533371	5.000
* 58	Chlorobenzene-d5	21.842	2952799	5.000

			CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #	
Unknown					CAS #:			
5.996	191637	0.60	1.2	0		0	30	
Acetaldehyde					CAS #: 75-07-0			
9.460	532471	1.7	3.4	86	NBS54K.l	37	30	
Unknown					CAS #:			
11.062	283478	0.89	1.8	0		0	30	

Data File: /chem/msdj.i/j-28feb.b/j022809.d
Report Date: 28-Feb-1997 17:37

RT	AREA	CONCENTRATIONS ON-COL(PPBV)	CONCENTRATIONS FINAL(PPBV)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Propanal					CAS #: 123-38-6		
12.969	134393	0.42	0.87	50	NBS54K.l	96	30
1-Propanol					CAS #: 71-23-8		
15.388	163187	0.51	1.0	78	NBS54K.l	124	30
Butanoic acid, trimethylsilyl ester					CAS #: 16844-99-8		
15.868	472107	1.5	3.0	64	NBS54K.l	10588	30
Unknown					CAS #:		
16.211	119321	0.37	0.77	0		0	30
2-Butanol					CAS #: 78-92-2		
16.311	192979	0.60	1.2	78	NBS54K.l	317	30
Unknown					CAS #:		
17.432	143151	0.28	0.58	0		0	40
Butanoic acid, ethyl ester					CAS #: 105-54-4		
20.392	222275	0.38	0.78	90	NBS54K.l	2890	58
Acetamide, N,N-dimethyl-					CAS #: 127-19-5		
23.276	1931017	3.3	6.7	86	NBS54K.l	707	58
Unknown					CAS #:		
25.977	225038	0.38	0.78	0		0	58
Phenol					CAS #: 108-95-2		
26.488	220323	0.37	0.77	91	NBS54K.l	933	58
Unknown					CAS #:		
34.903	152052	0.26	0.53	0		0	58

Data File: /chem/msdj.i/j-28feb.b/j022809.d
Report Date: 28-Feb-1997 17:37

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j022809.d
Lab Smp Id: 9702192-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: JMP
Method File: /chem/msdj.i/j-28feb.b/to140109.m
Misc Info: 10.5" Hg-5.0 psi Parsons Eng. Sci.

Calibration Date: 02/28/97
Calibration Time: 1304
Client Smp ID: 022297U1
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	246183	147710	344656	222536	-9.61
40 1,4-Difluorobenzene	1105494	663296	1547692	987783	-10.65
58 Chlorobenzene-d5	900467	540280	1260654	876171	-2.70

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	16.41	15.91	16.91	16.42	0.06
40 1,4-Difluorobenzene	17.75	17.25	18.25	17.75	0.01
58 Chlorobenzene-d5	21.85	21.35	22.35	21.84	-0.03

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

2/28/97

Data File: /chem/msdj.i/j-28feb.b/j022809.d
Report Date: 28-Feb-1997 17:37

Air Toxics Limited

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 9702192-01A
Level: LOW
Data Type: MS DATA
SpikeList File:
Client SDG: j-28feb
Fraction: VOA
Client Smp ID: 022297U1
Operator: JMP
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem/msdj.i/j-28feb.b/to140109.m
Misc Info: 10.5" Hg-5.0 psi Parsons Eng. Sci.

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	4.8	96.25	60-140
$ 49 Toluene-d8	5.0	5.4	108.07	60-140
$ 65 Bromofluorobenzene	5.0	5.2	103.87	60-140

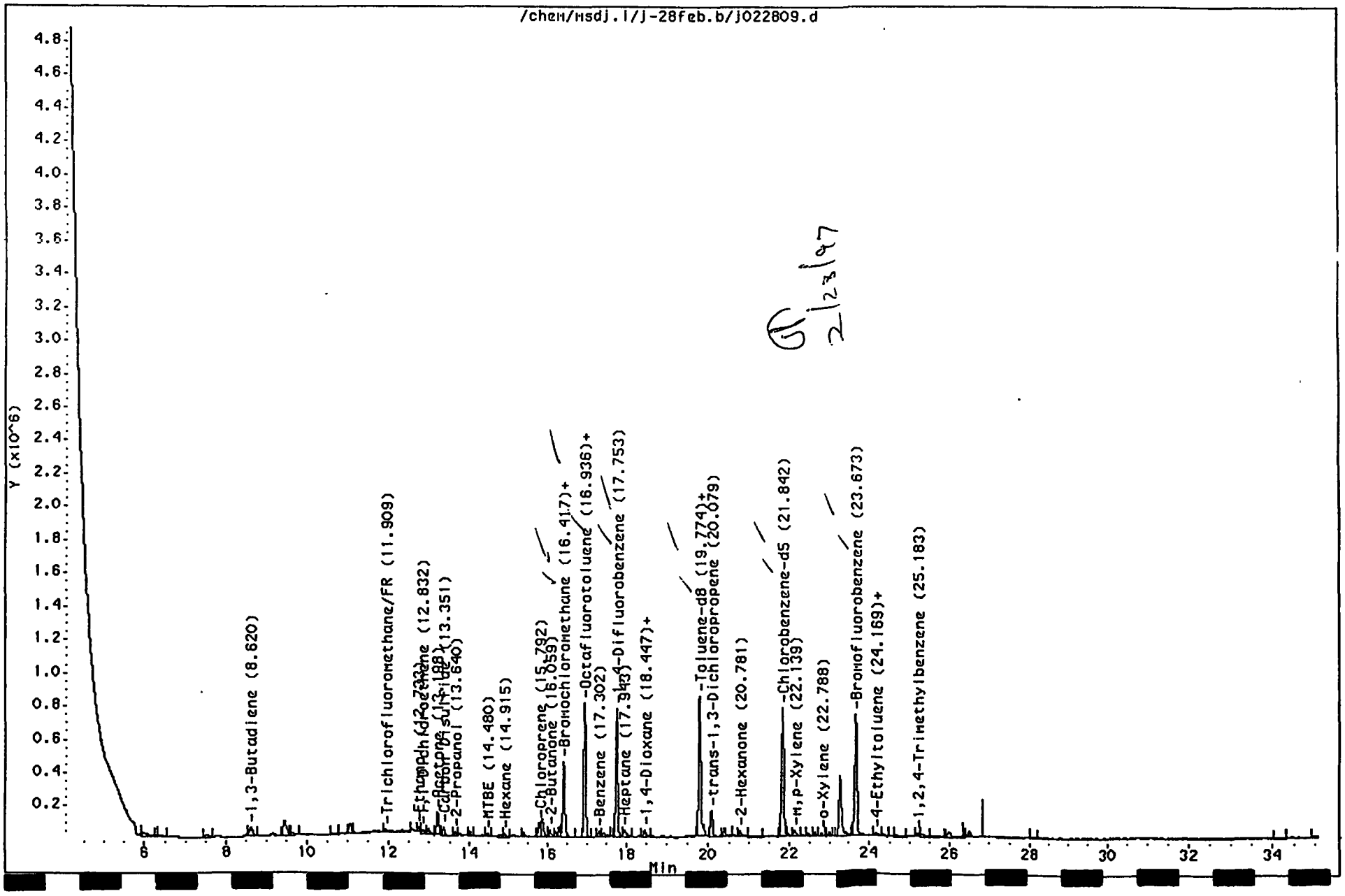
JP
2/28/97

Data File: /chem/msdj.i/j-28feb.b/j022809.d
Date : 28-FEB-1997 17:04
Client ID: 022297U1
Sample Info: 500mL Can#439

Column phase: RTx-624

Instrument: msdj.i

Operator: JMP
Column diameter: 0.58



Data File: /chem/msdj.i/j-28feb.b/j022809.d

Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

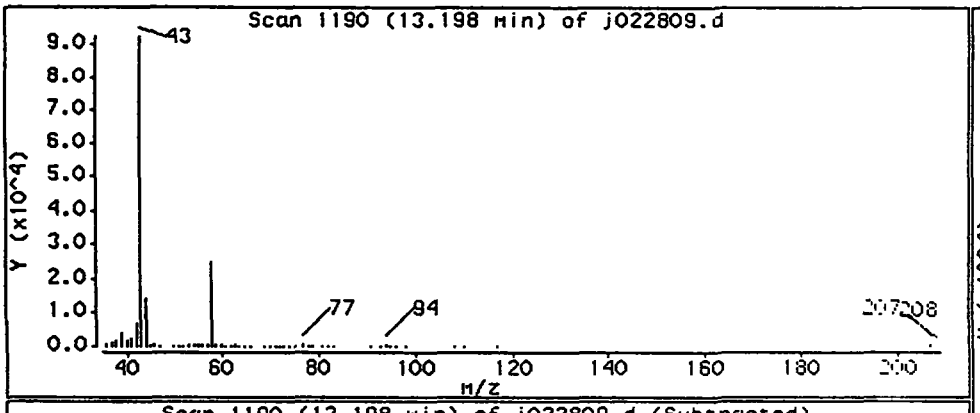
Sample Info: 500mL Can#439

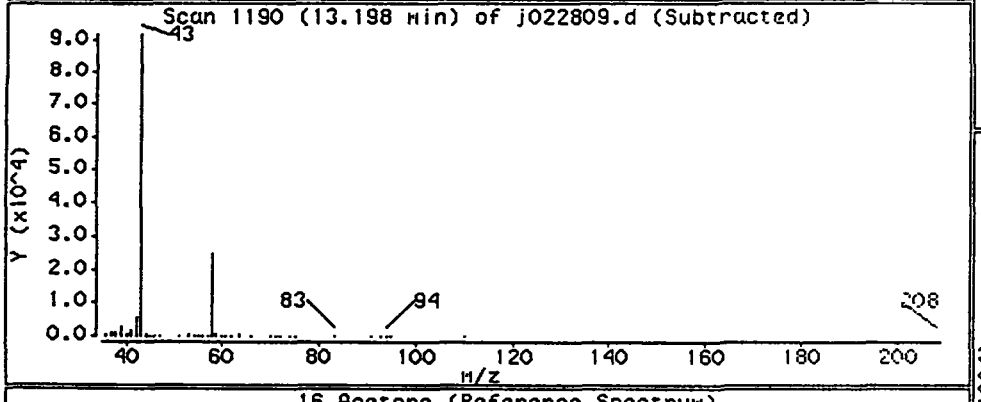
Operator: JMP

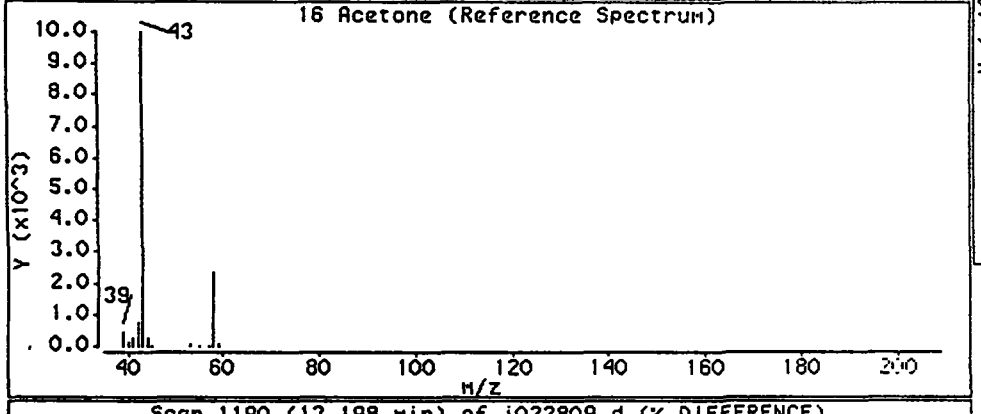
Column phase: RTx-624

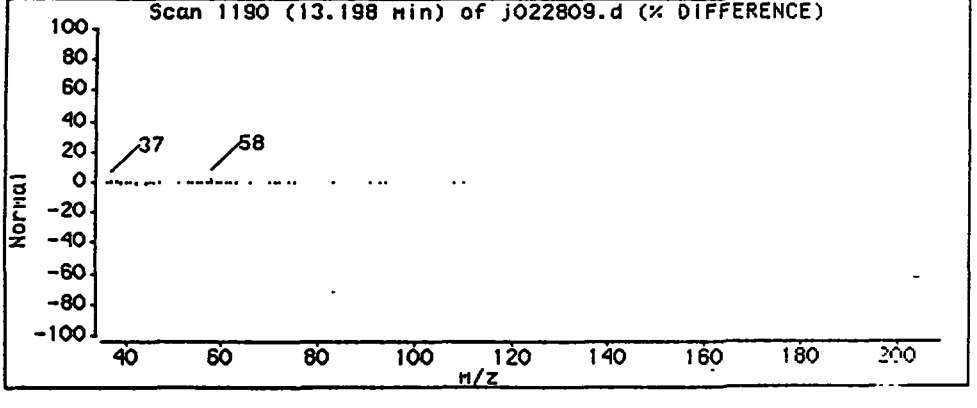
Column diameter: 0.58

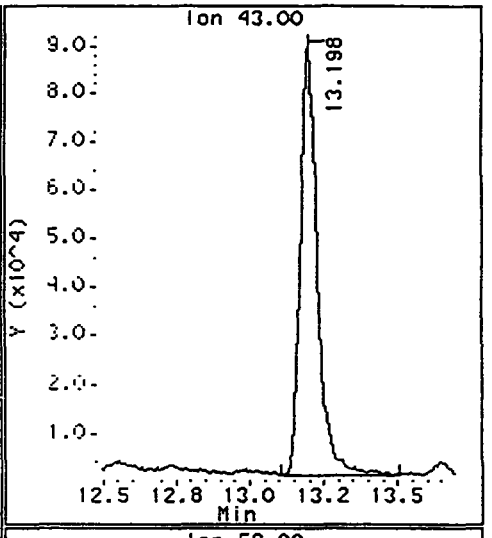
16 Acetone

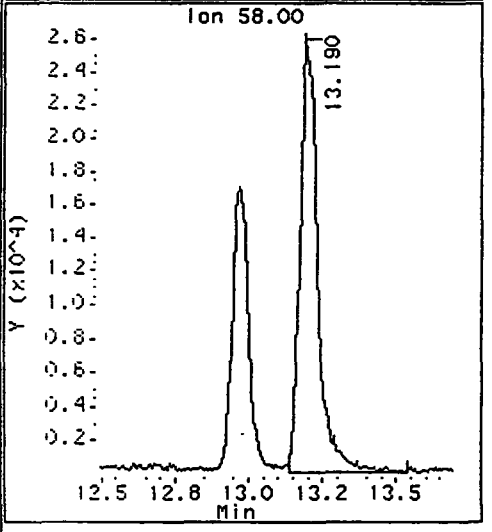












Data File: /chem/msdj.i/j-28feb.b/j022809.d

Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

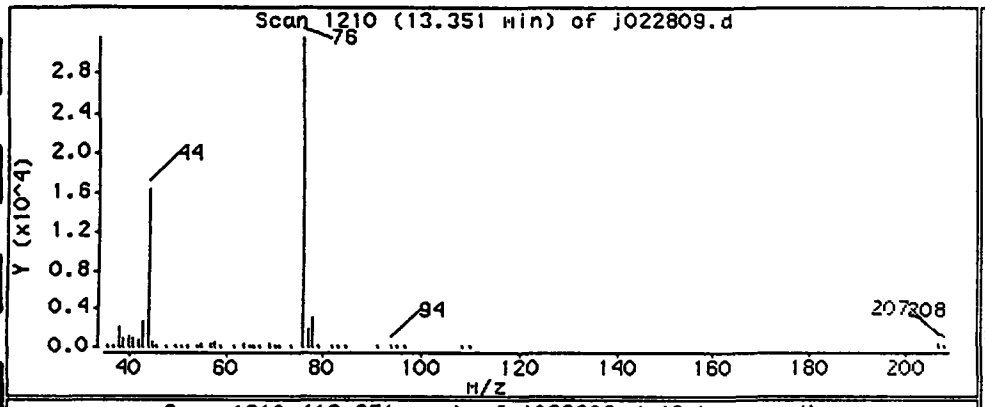
Sample Info: 500mL Can#439

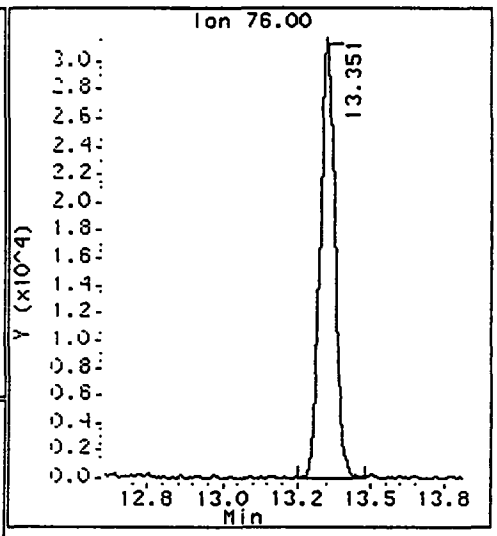
Operator: JMP

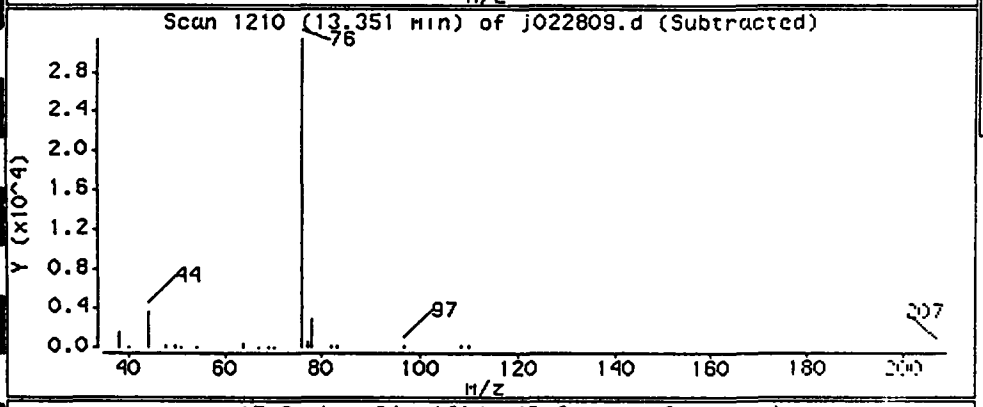
Column phase: RTx-624

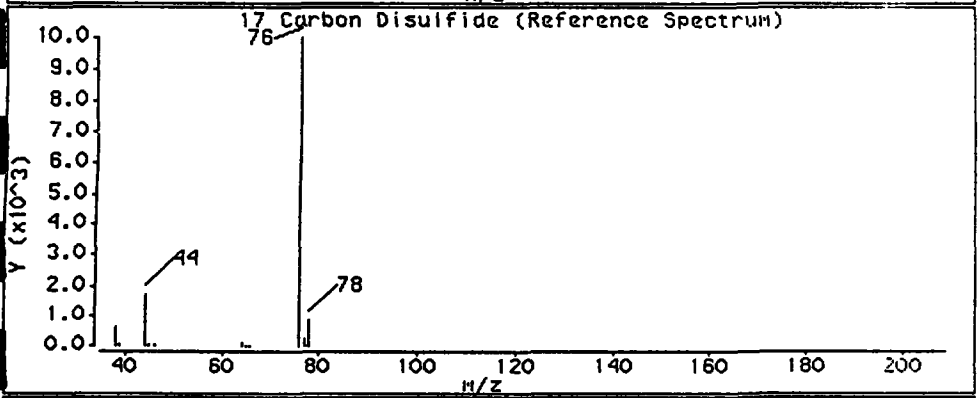
Column diameter: 0.58

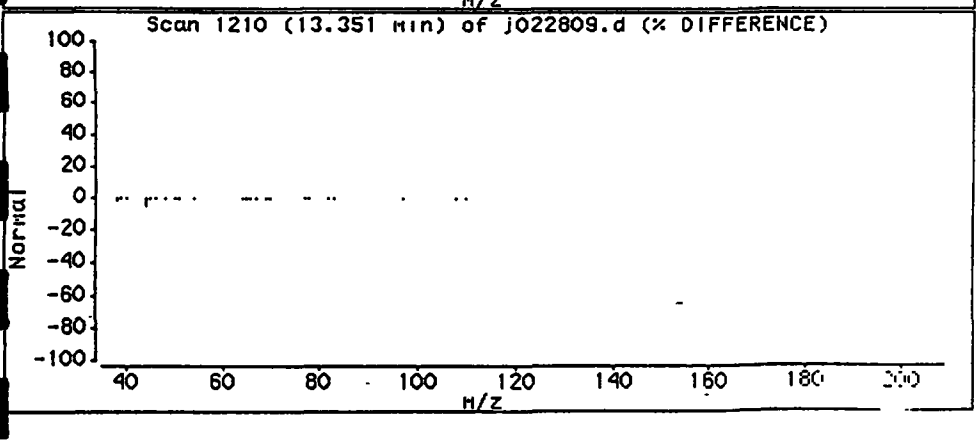
17 Carbon Disulfide











Data File: /chem/msdj.i/j-28feb.b/j022809.d

Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

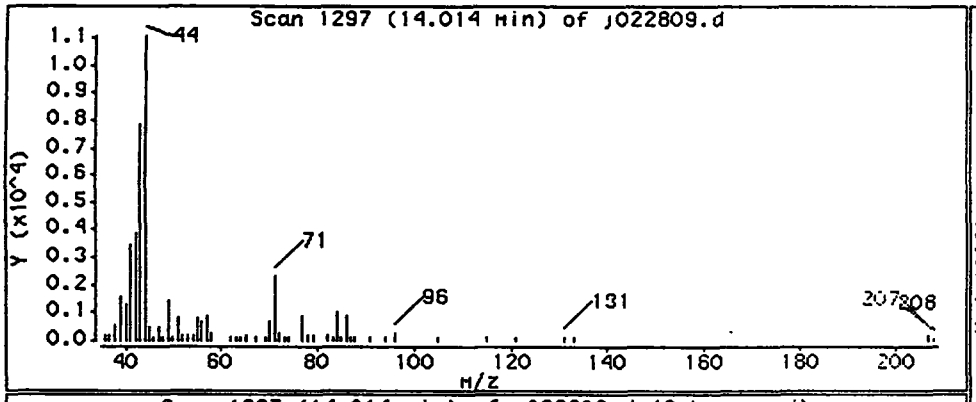
Sample Info: 500ML Can#439

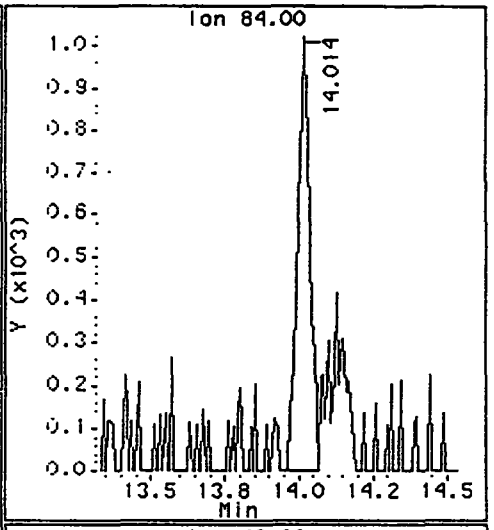
Operator: JMP

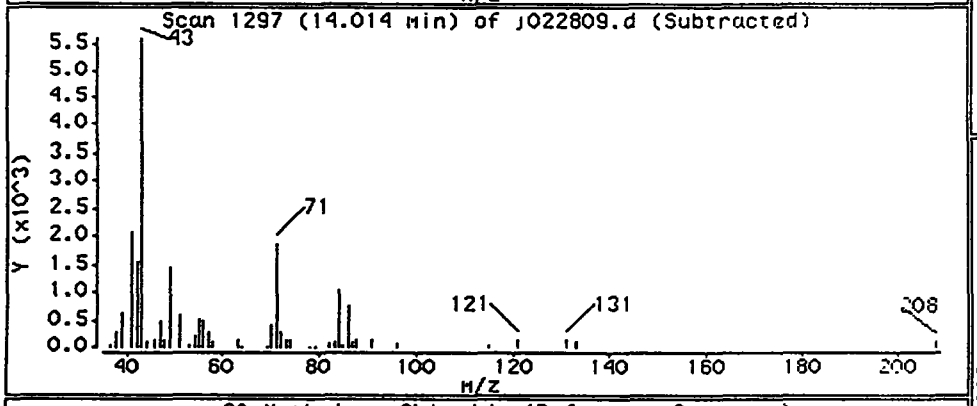
Column phase: RTx-624

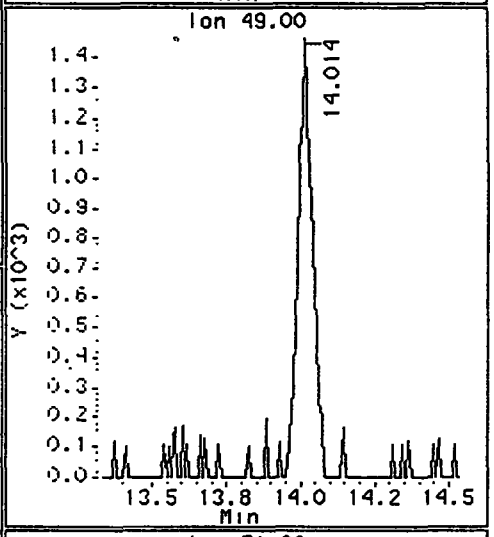
Column diameter: 0.58

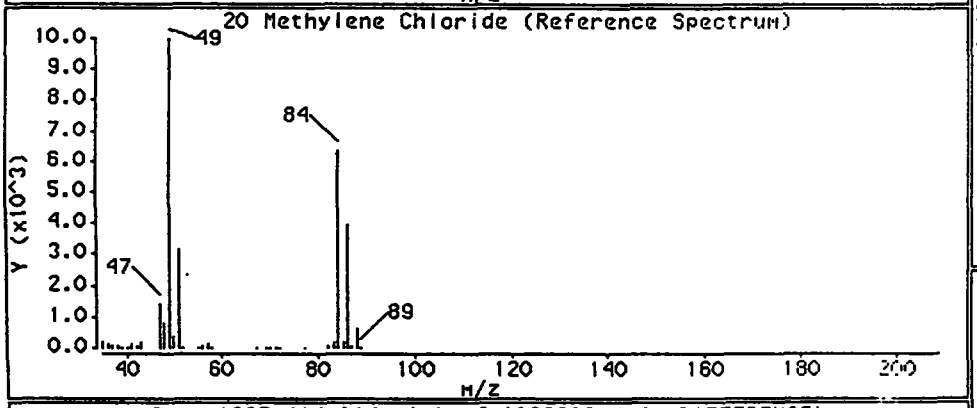
20 Methylene Chloride

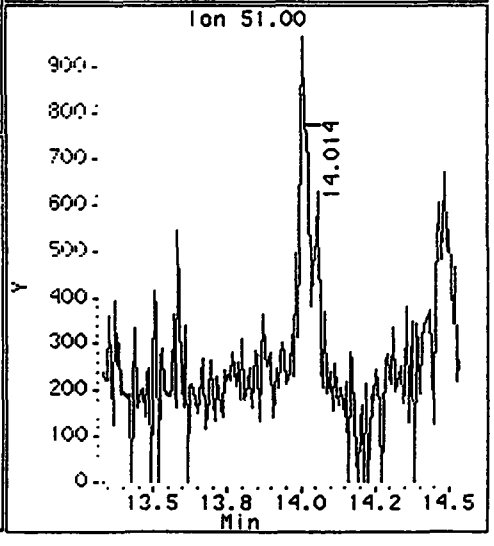


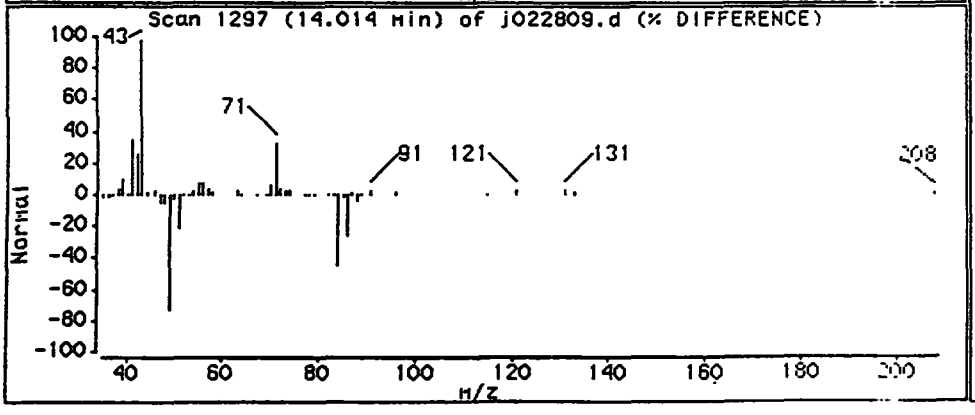












Data File: /chem/msdj.i/j-28feb.b/j022809.d

Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

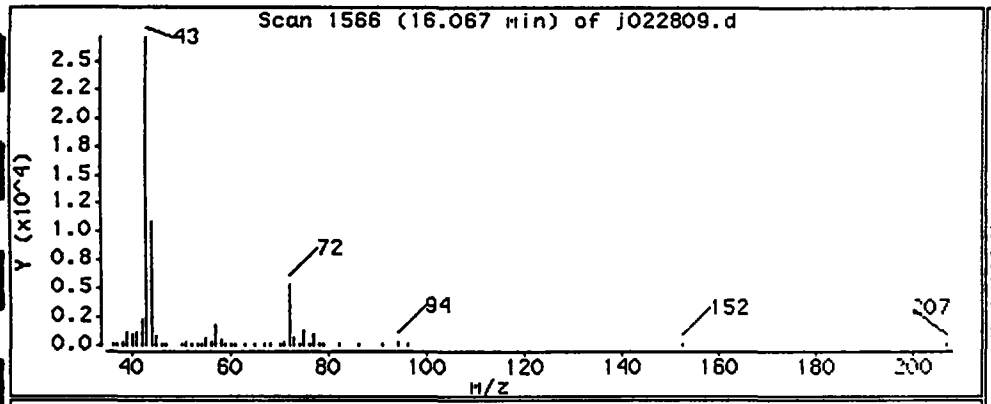
Sample Info: 500mL Can#439

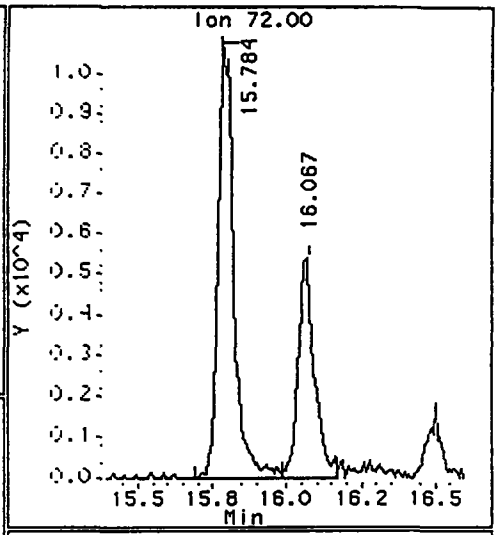
Operator: JMP

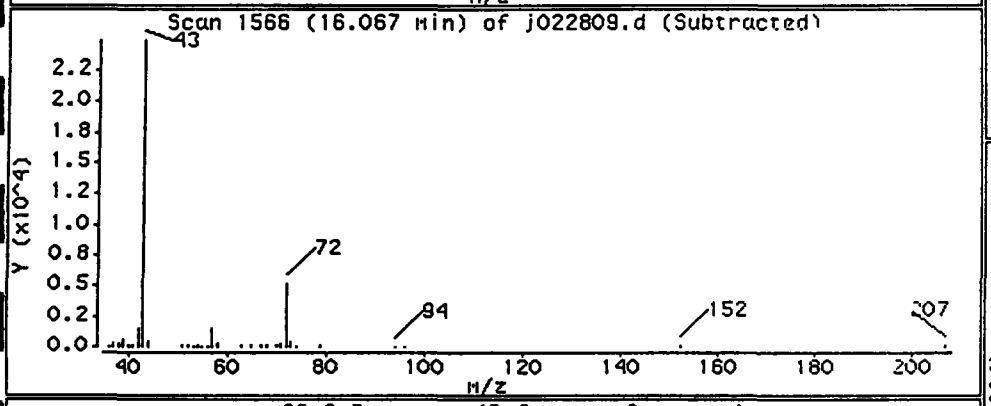
Column phase: RTx-624

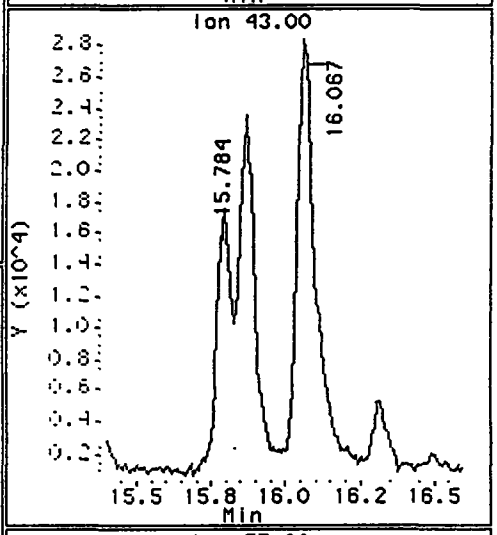
Column diameter: 0.58

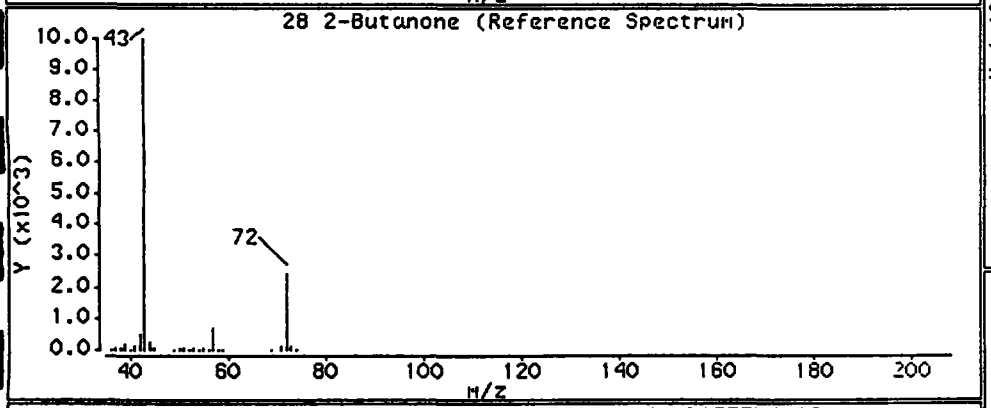
28 2-Butanone

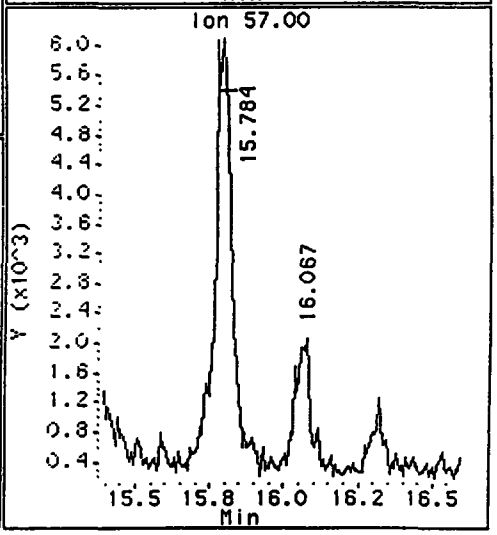


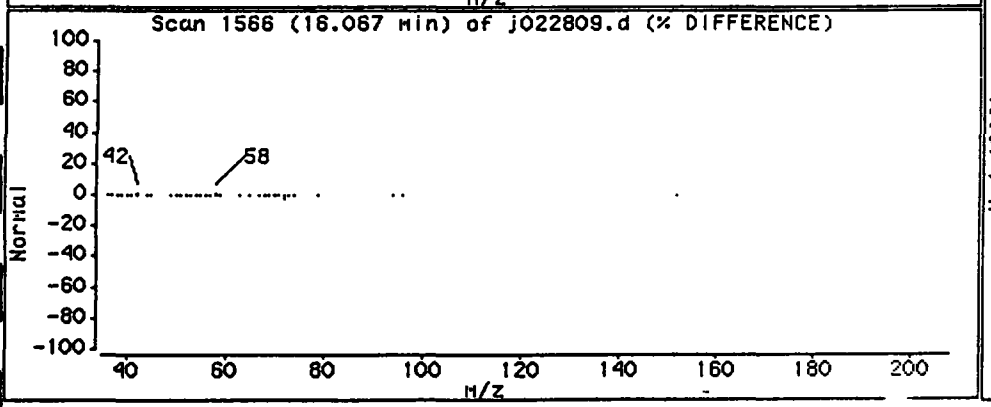












Data File: /chem/msdj.i/j-28feb.b/j022809.d

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Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

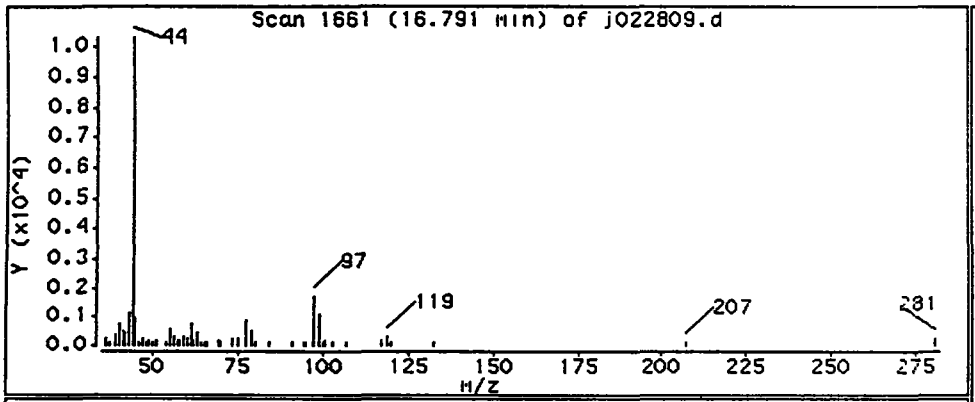
Sample Info: 500ML Can#439

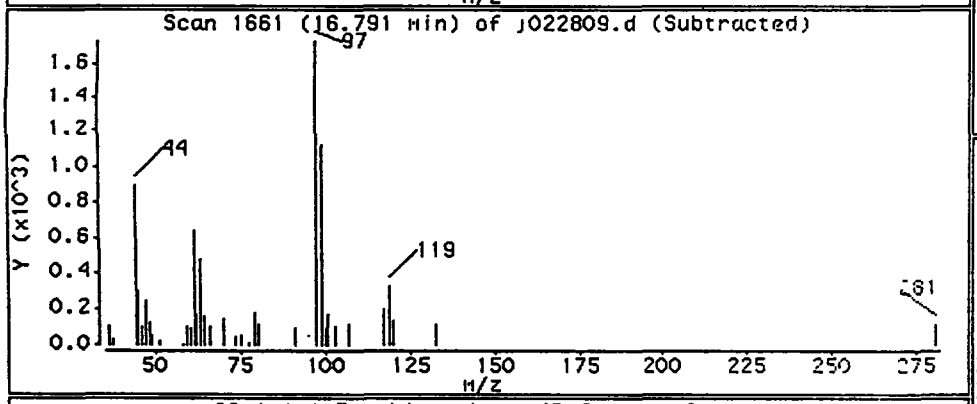
Operator: JMP

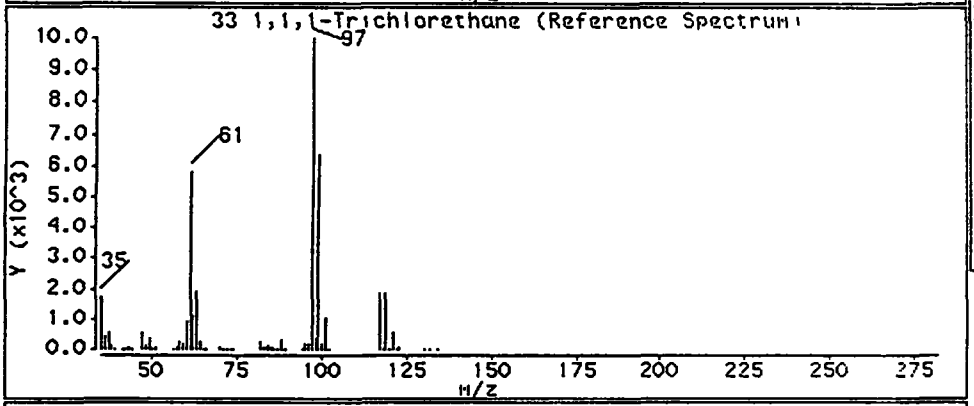
Column phase: RTx-624

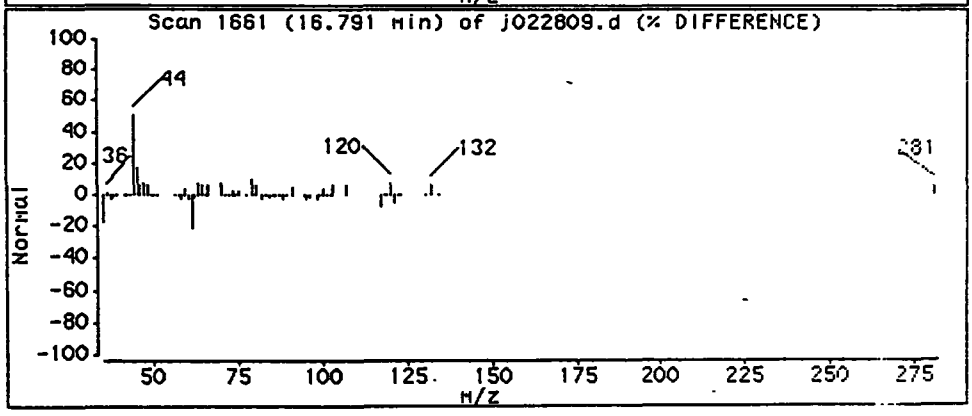
Column diameter: 0.58

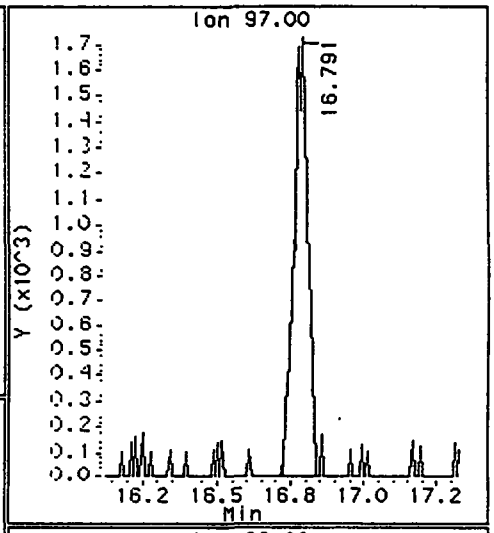
33 1,1,1-Trichlorethane

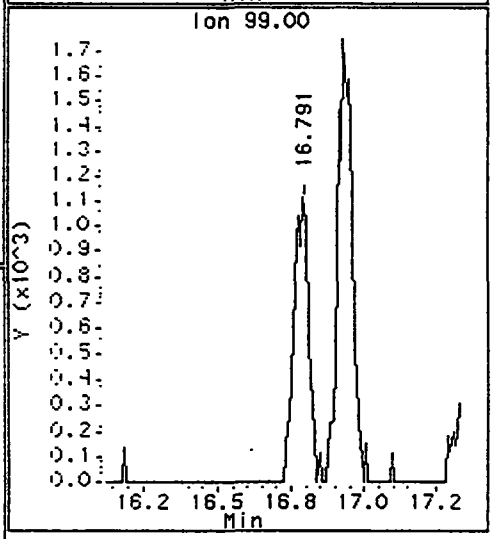












Data File: /chem/msdj.i/j-28feb.b/j022809.d

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Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

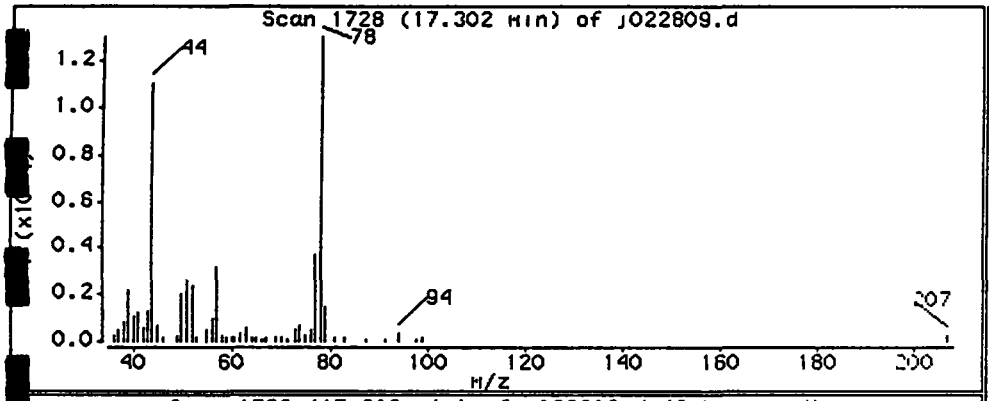
Sample Info: 500mL Can#439

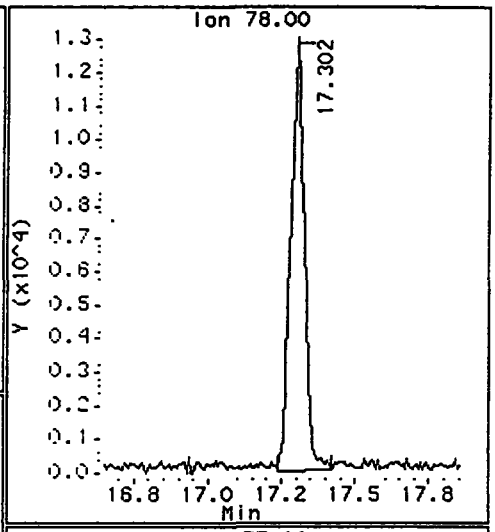
Operator: JMP

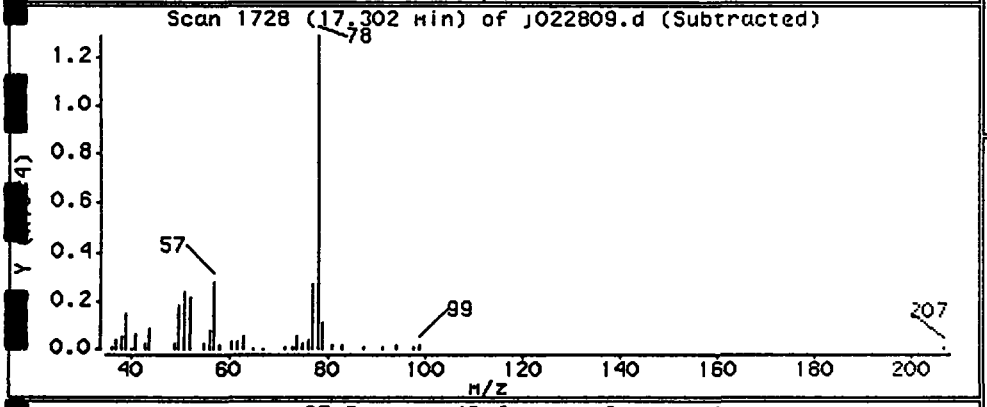
Column phase: RTx-624

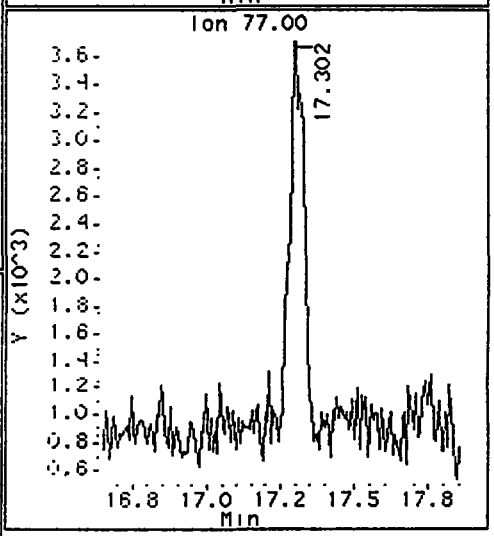
Column diameter: 0.58

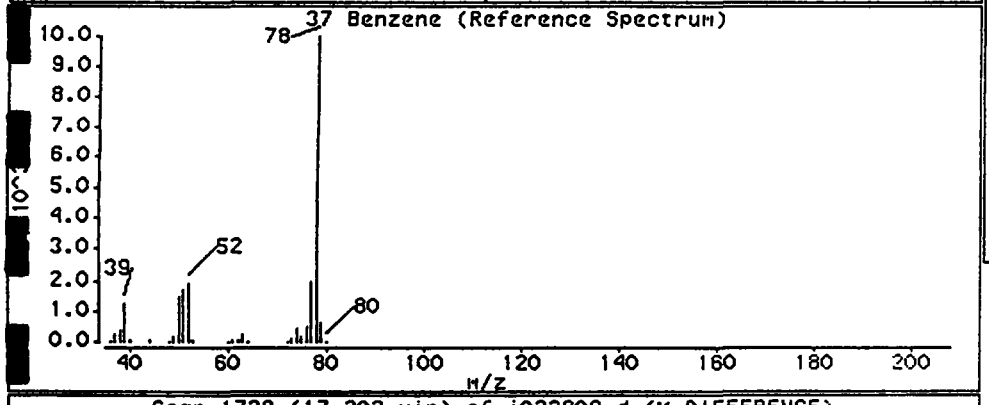
37 Benzene

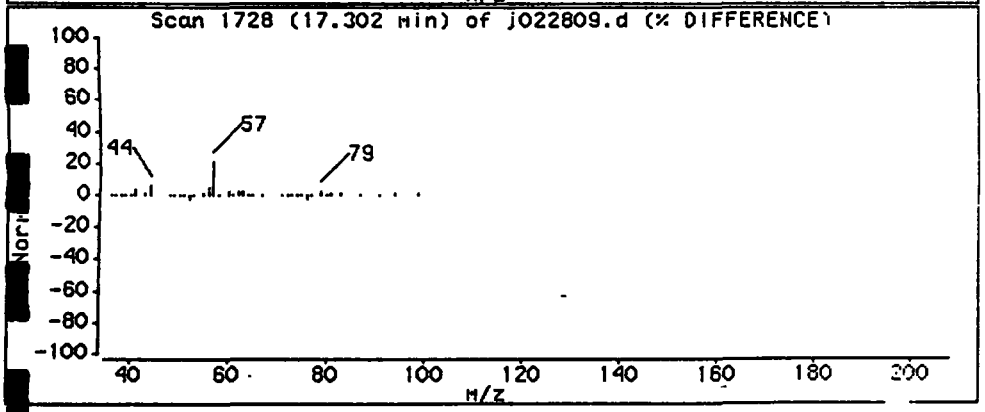












Data File: /chem/msdj.i/j-28feb.b/j022809.d

Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

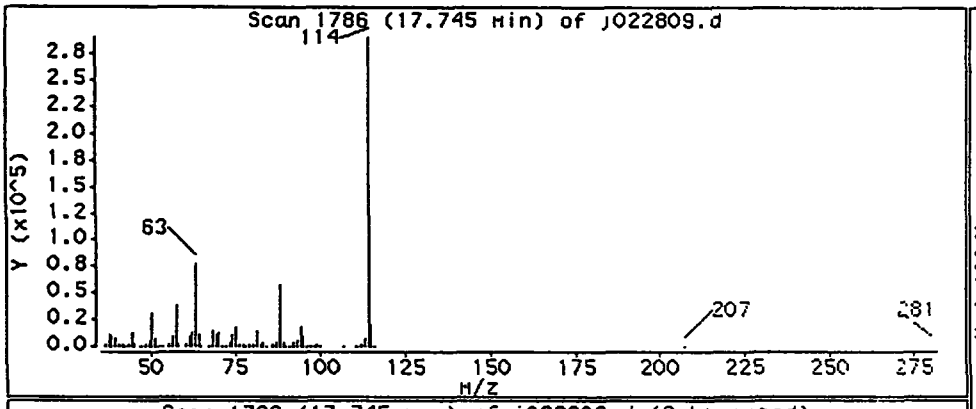
Sample Info: 500mL Can#439

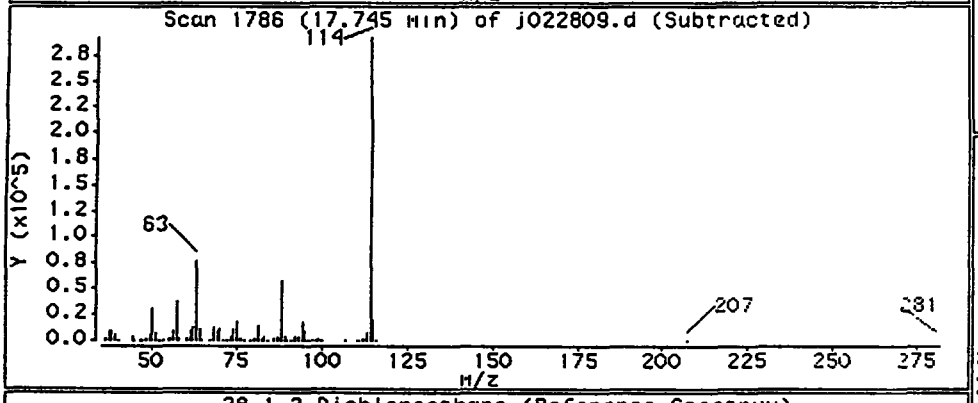
Operator: JMP

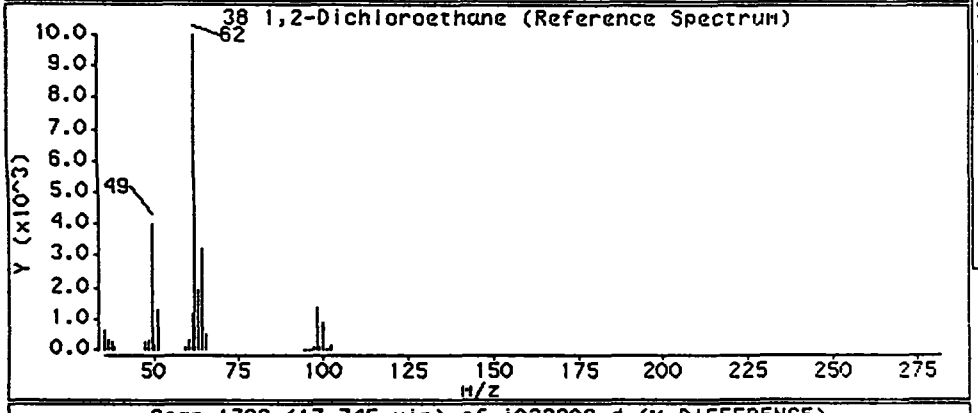
Column phase: RTx-624

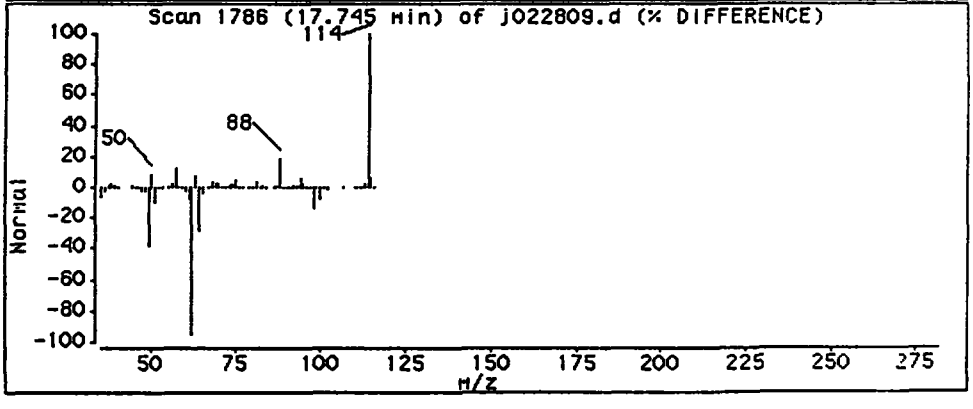
Column diameter: 0.58

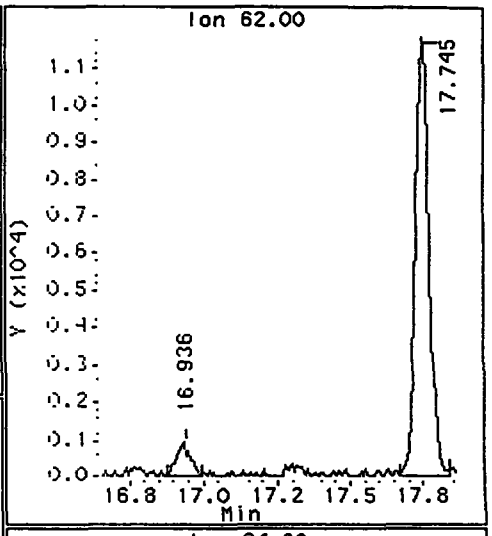
38 1,2-Dichloroethane

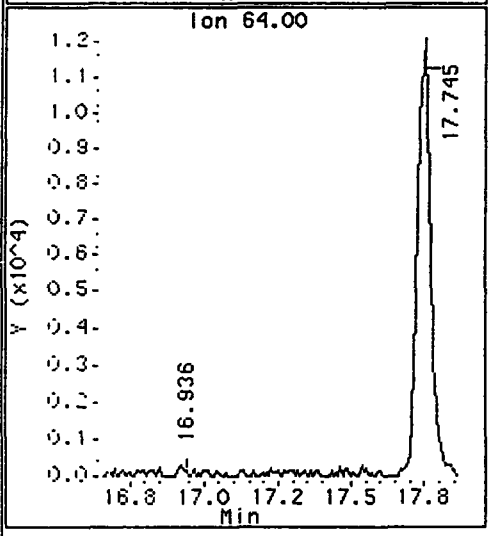












Data File: /chem/msdj.i/j-28feb.b/j022809.d

Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

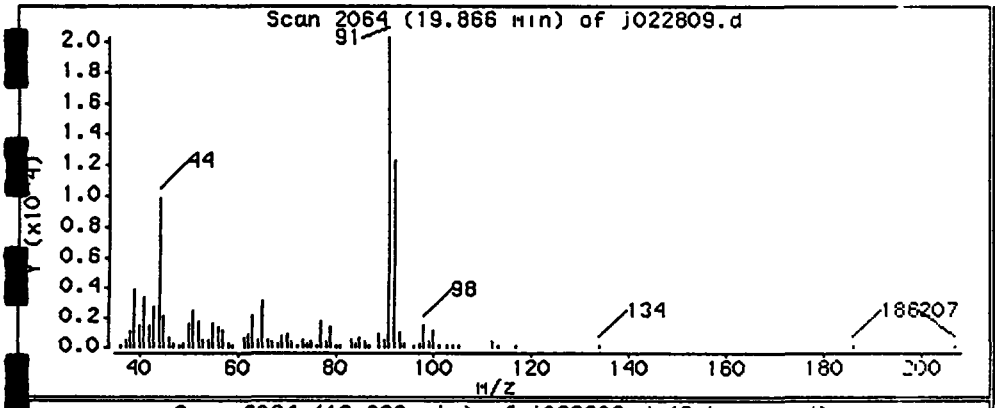
Sample Info: 500mL Can#439

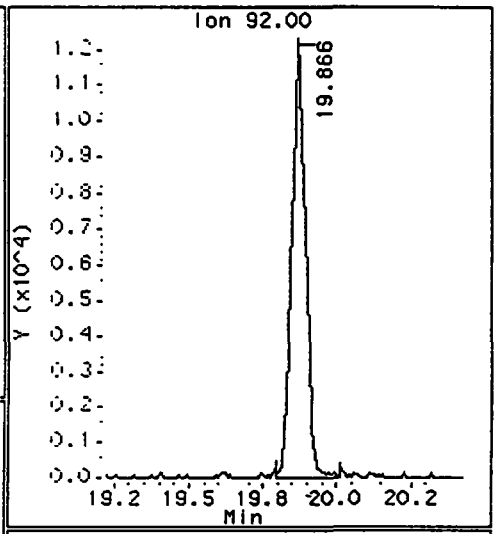
Operator: JMP

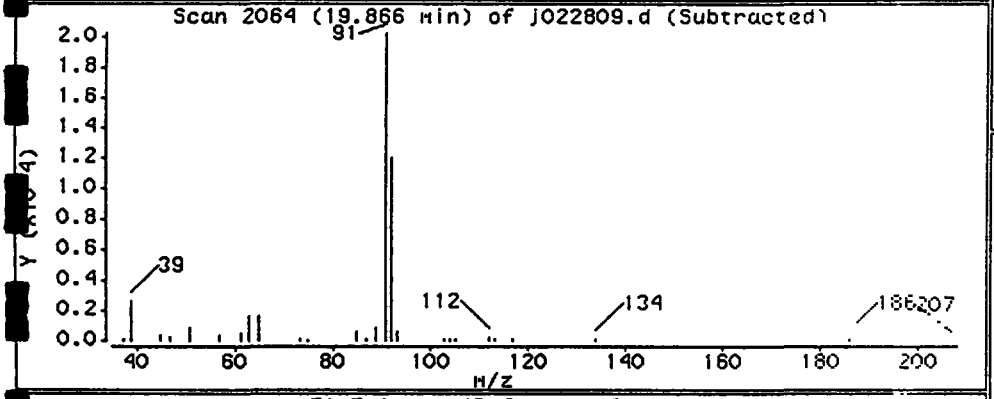
Column phase: RTx-624

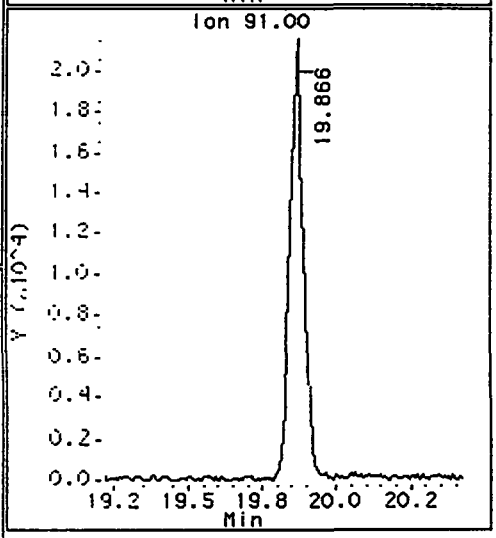
Column diameter: 0.58

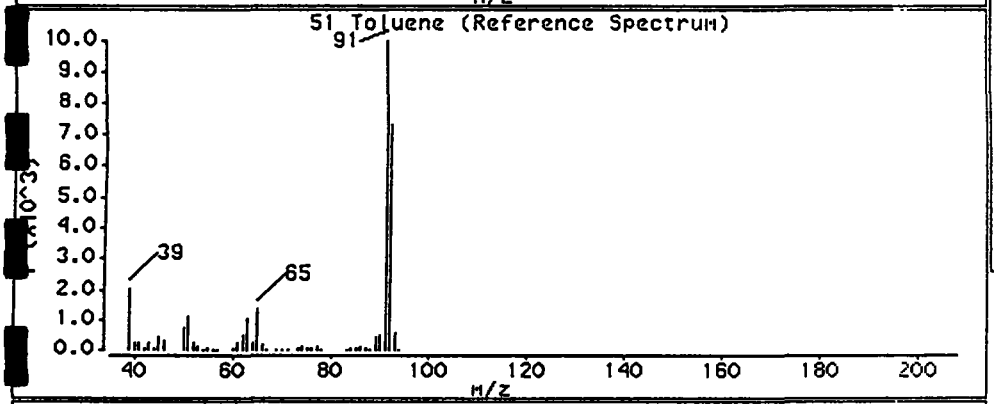
51 Toluene

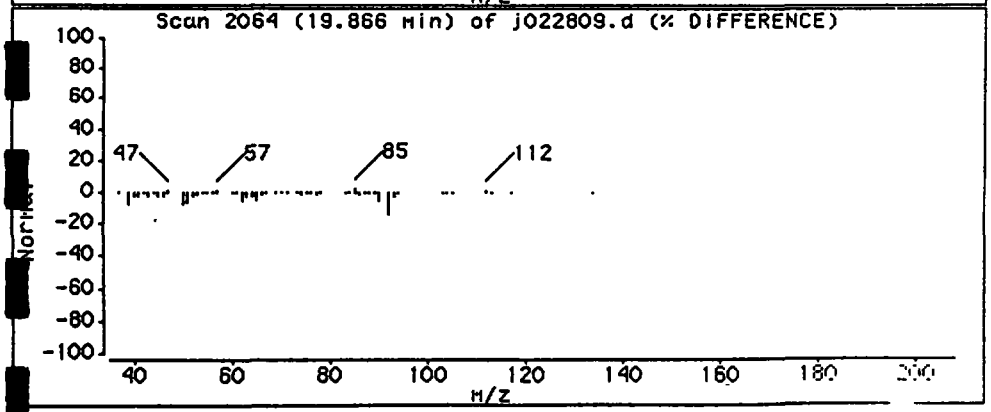












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Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

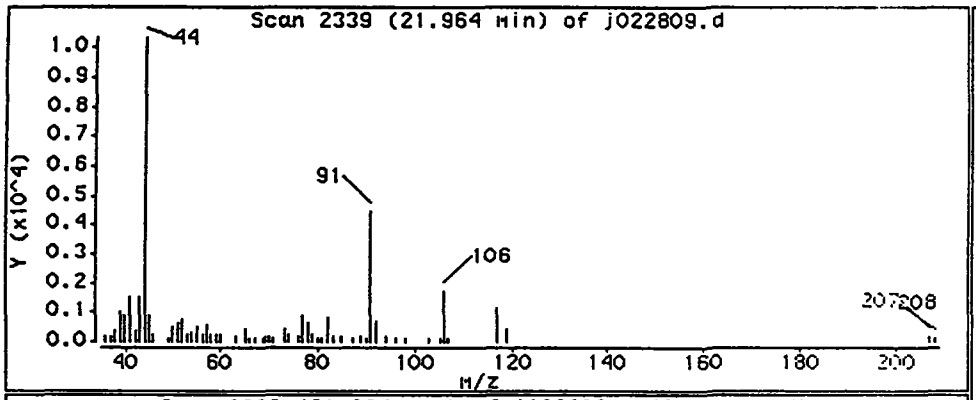
Sample Info: 500mL Can#439

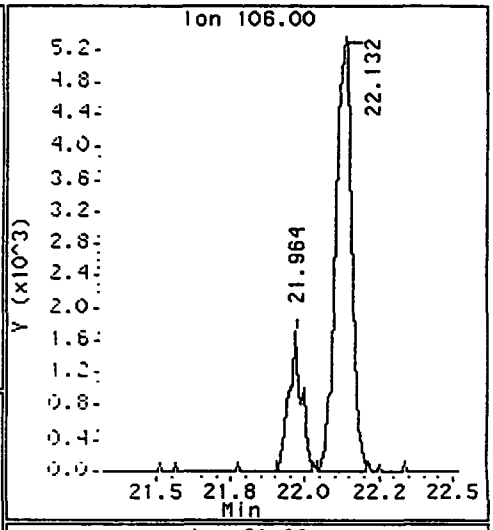
Operator: JMP

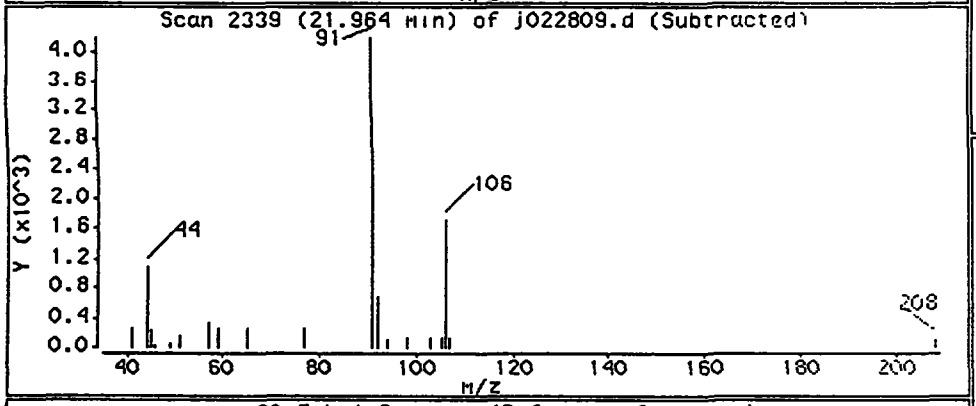
Column phase: RTx-624

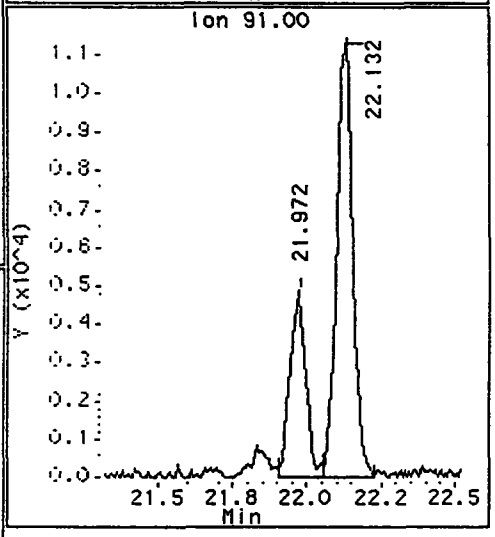
Column diameter: 0.58

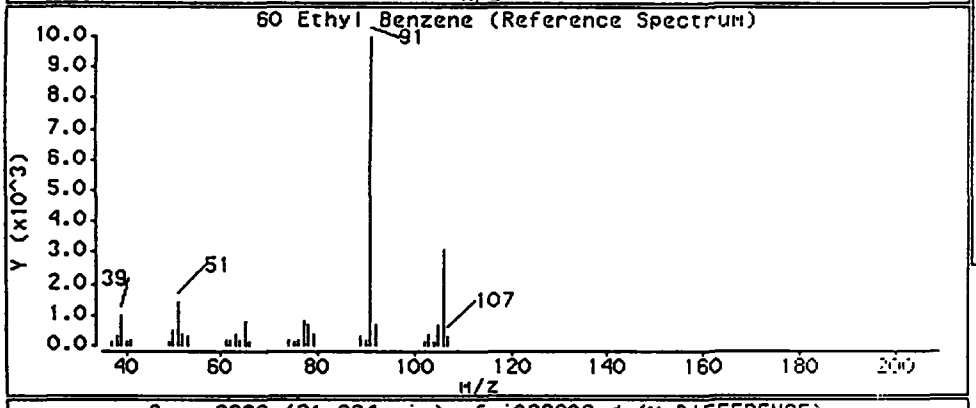
60 Ethyl Benzene

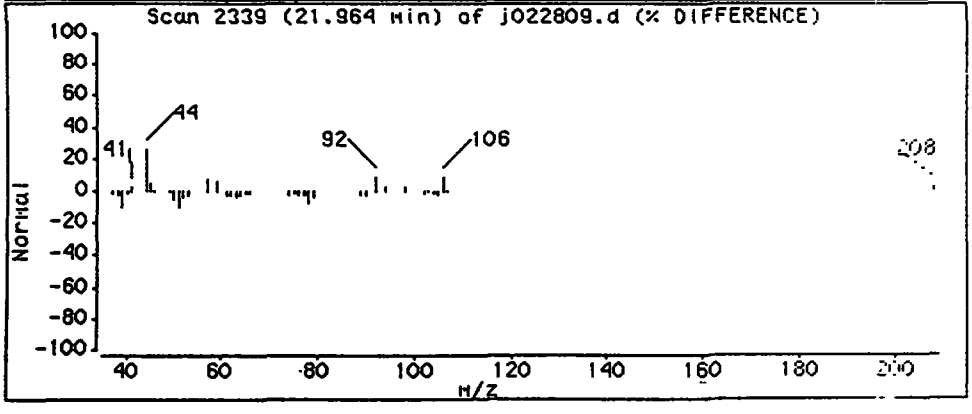












Data File: /chem/msdj.i/j-28feb.b/j022809.d

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Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

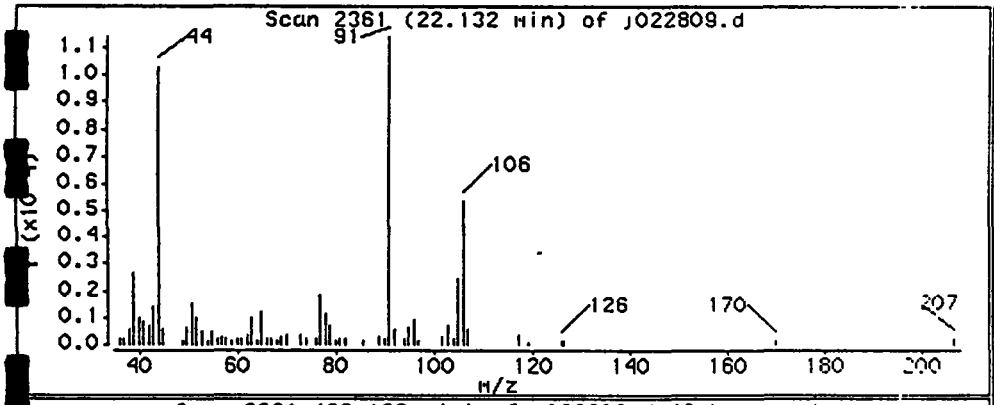
Sample Info: 500mL Can#439

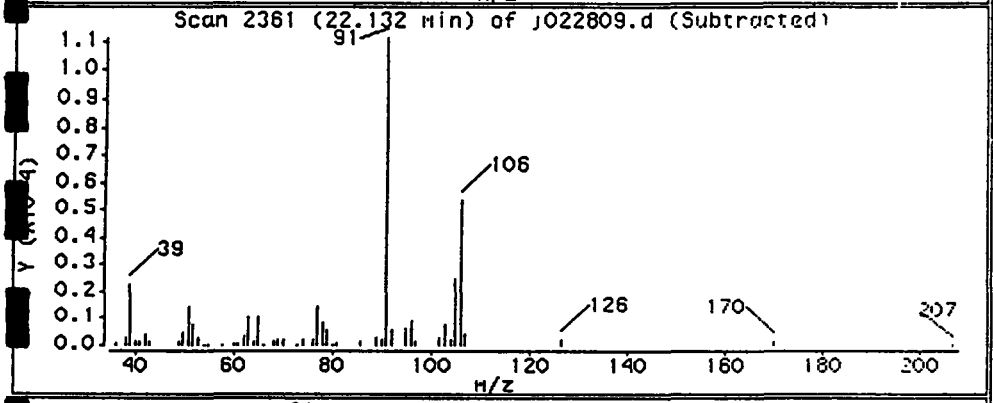
Operator: JMP

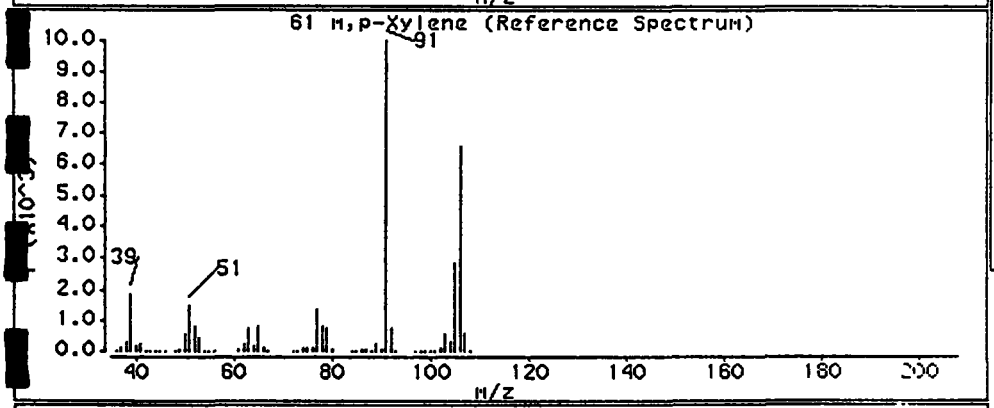
Column phase: RTx-624

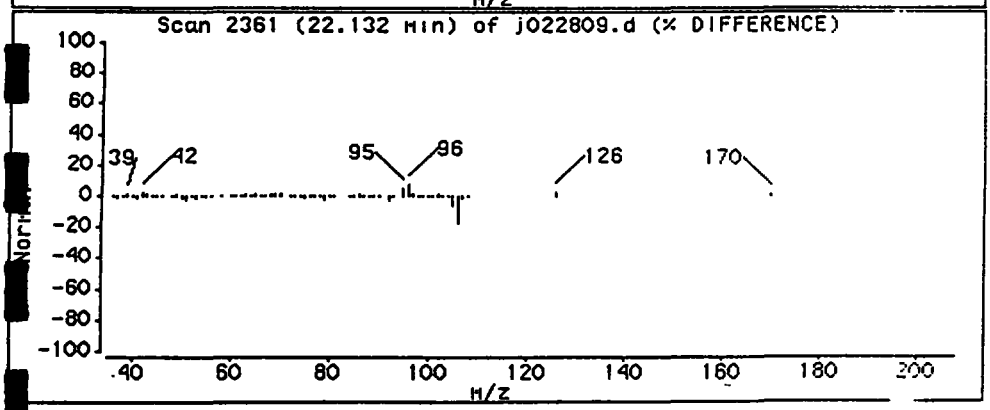
Column diameter: 0.58

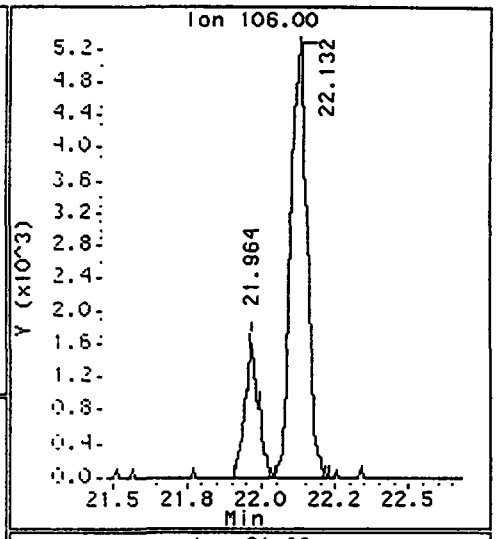
61 m,p-Xylene

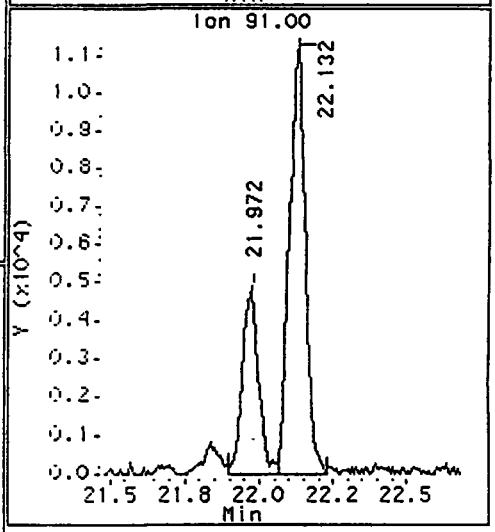












Data File: /chem/msdj.i/j-28feb.b/j022809.d

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Date : 28-FEB-97 17:04

Client ID: 022297U1

Instrument: msdj.i

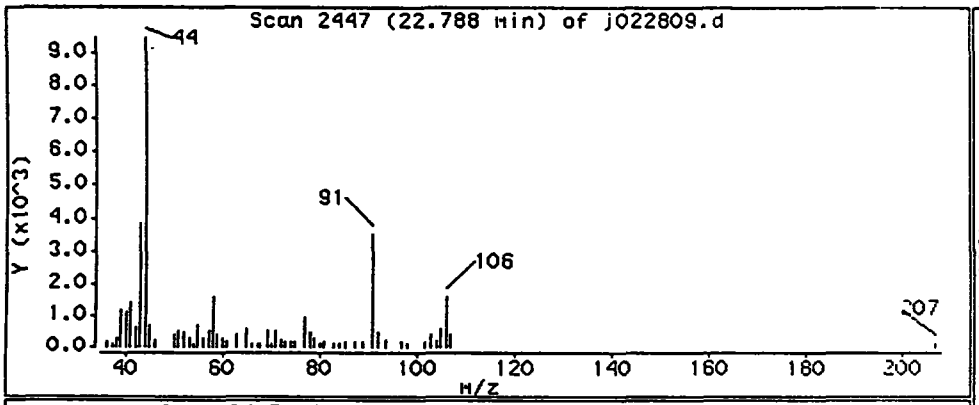
Sample Info: 500mL Can#439

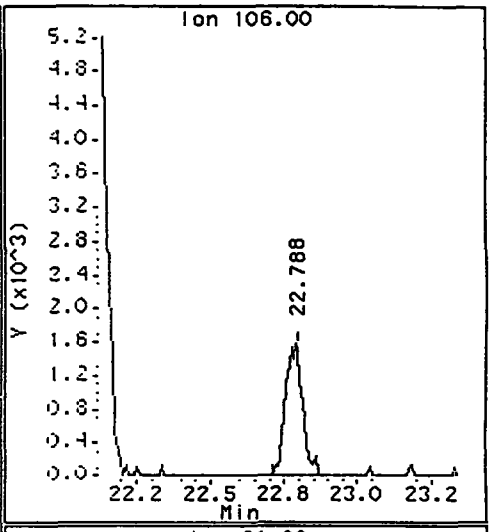
Operator: JMP

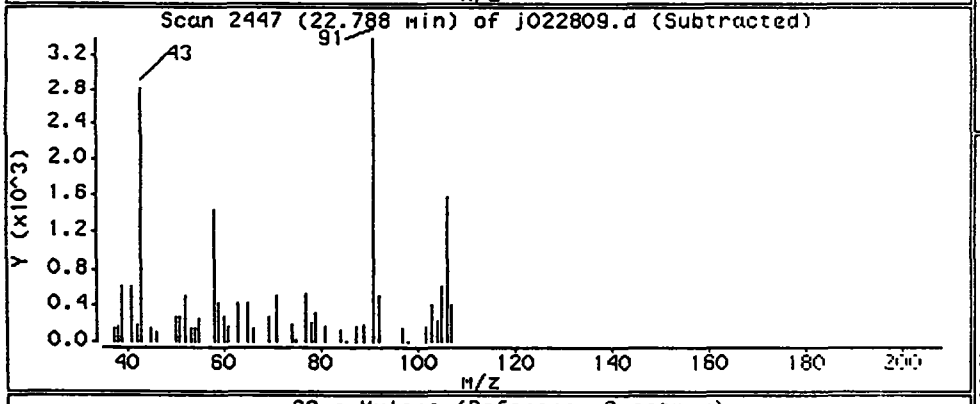
Column phase: RTx-624

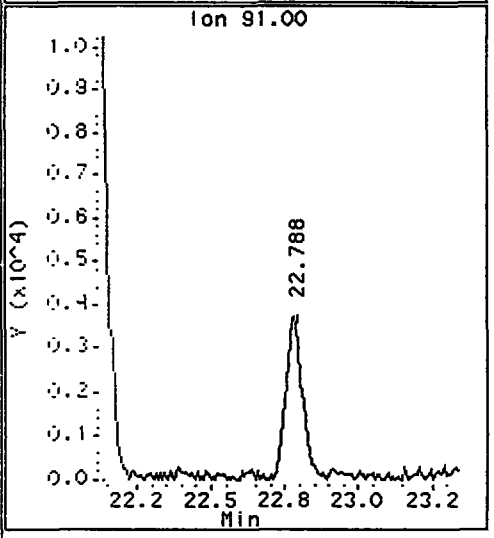
Column diameter: 0.58

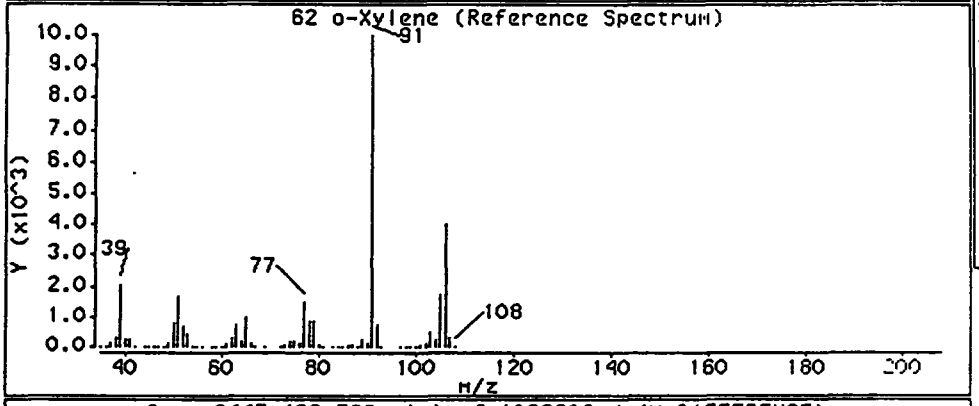
62 o-Xylene

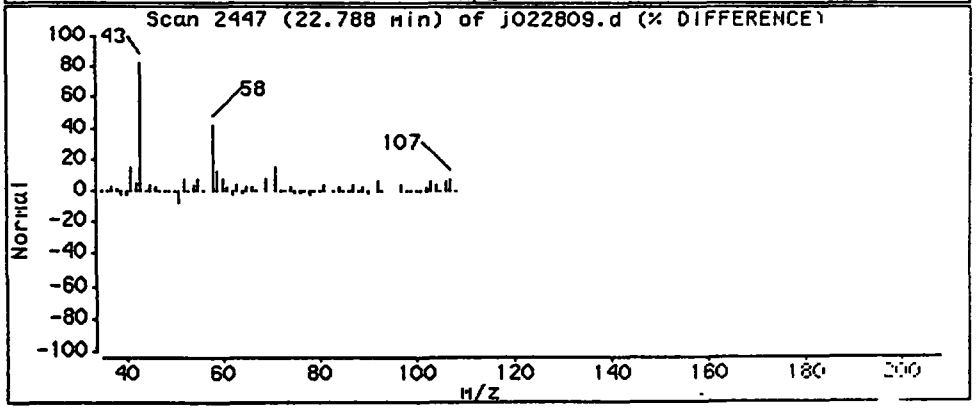












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Date : 28-FEB-97 17:04
Instrument: msdj.i
Client ID: 022297U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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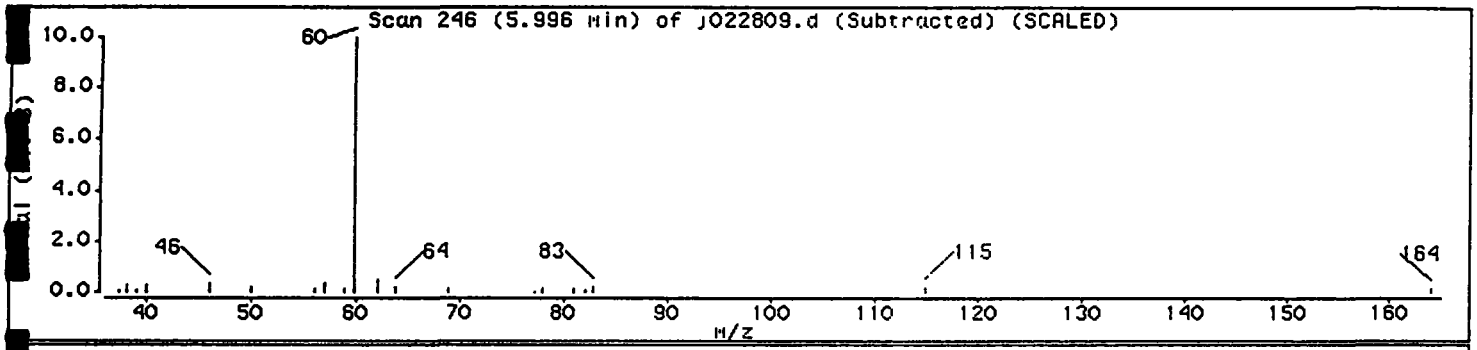

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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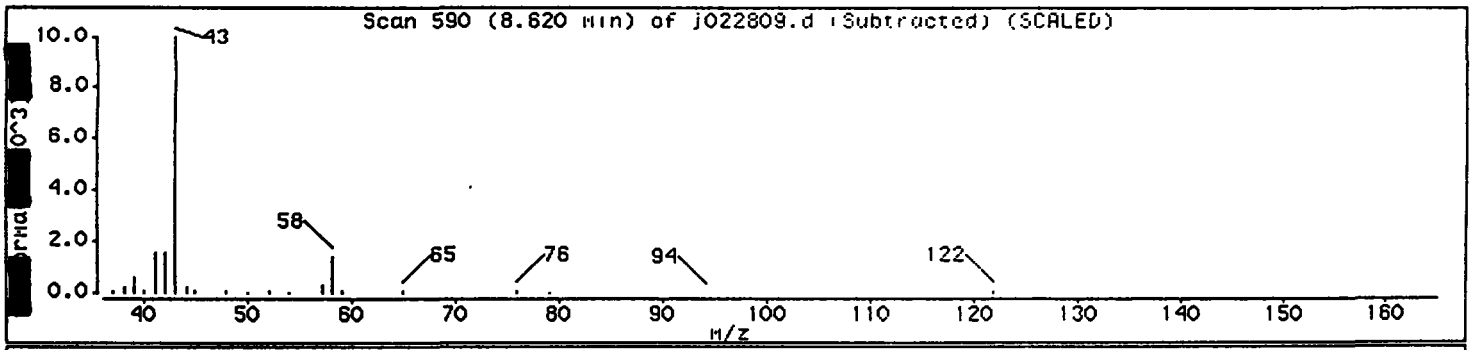
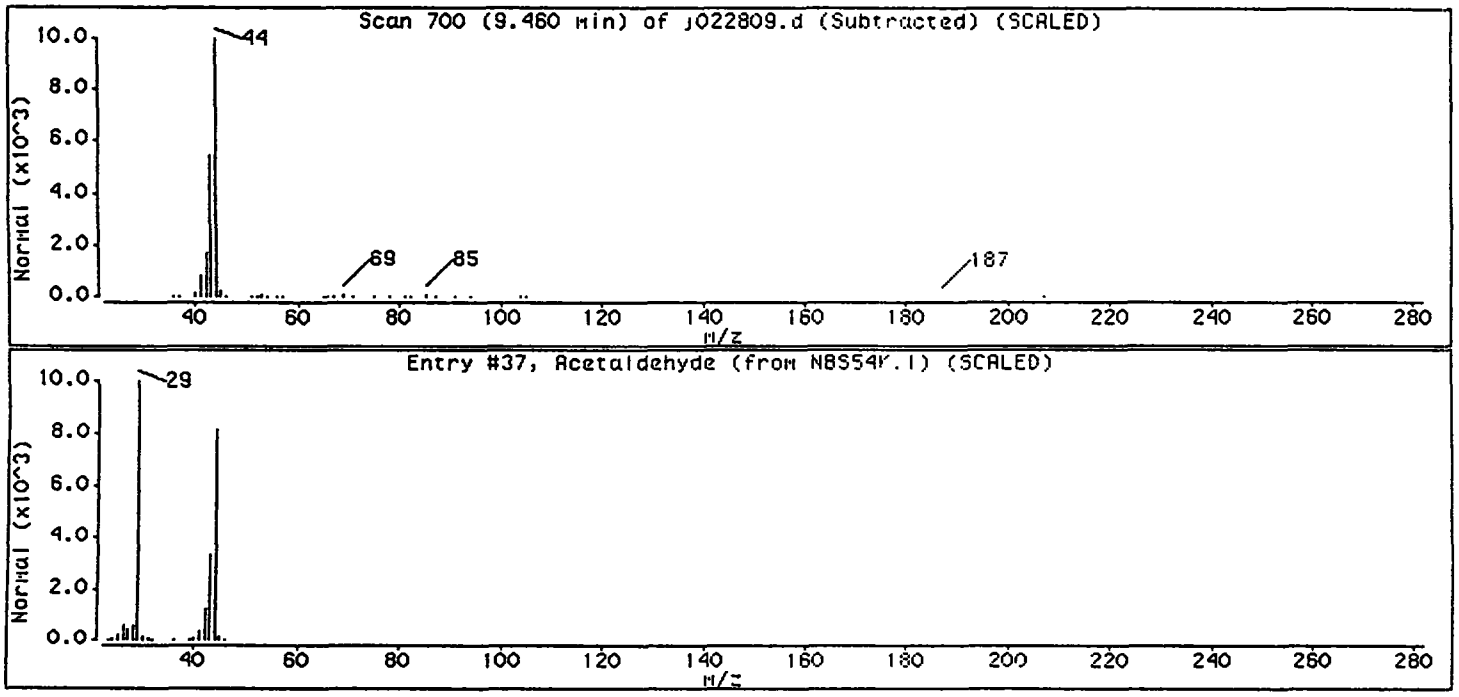


Data File: /chem/msdj.i/j-28feb.b/j022809.d
Date : 28-FEB-97 17:04
Instrument: msdj.i
Client ID: 022297U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetaldehyde	75-07-0	NBS54K.I	37	86



Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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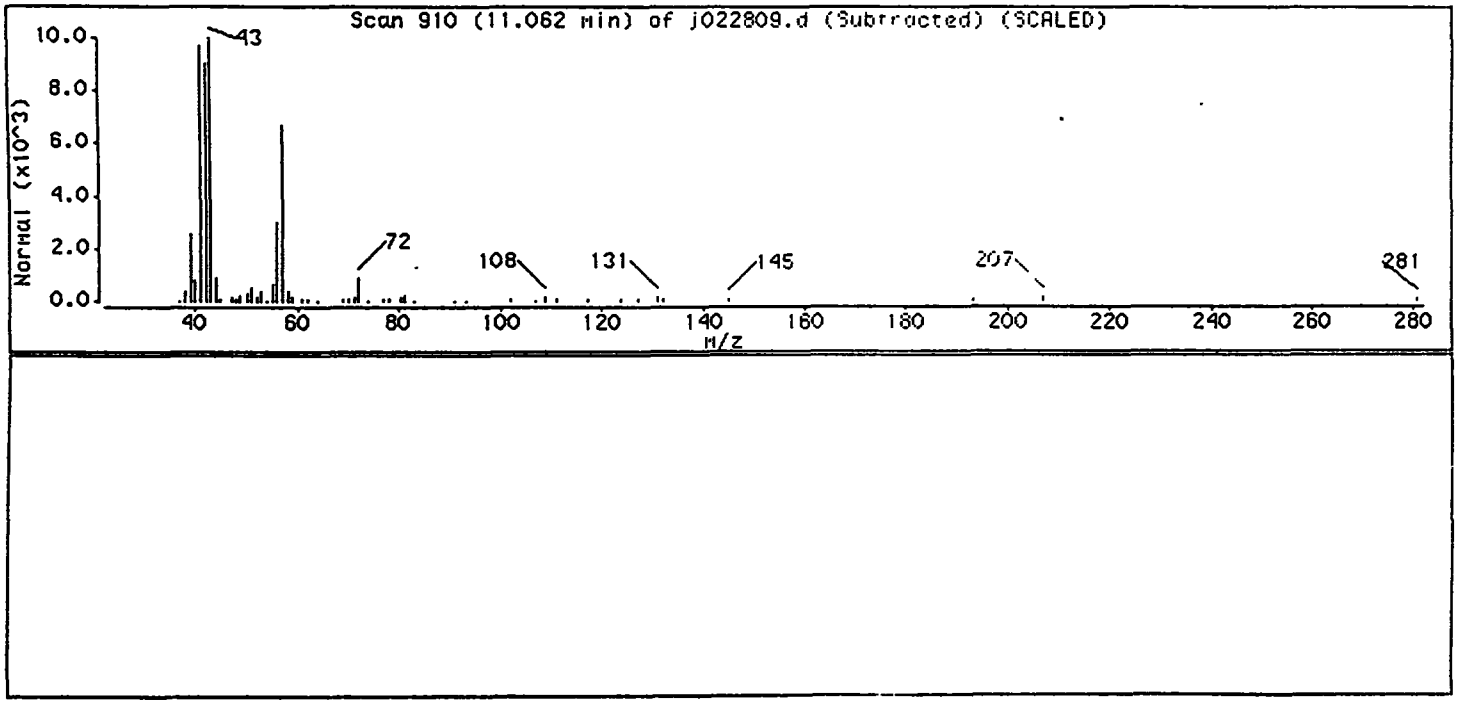
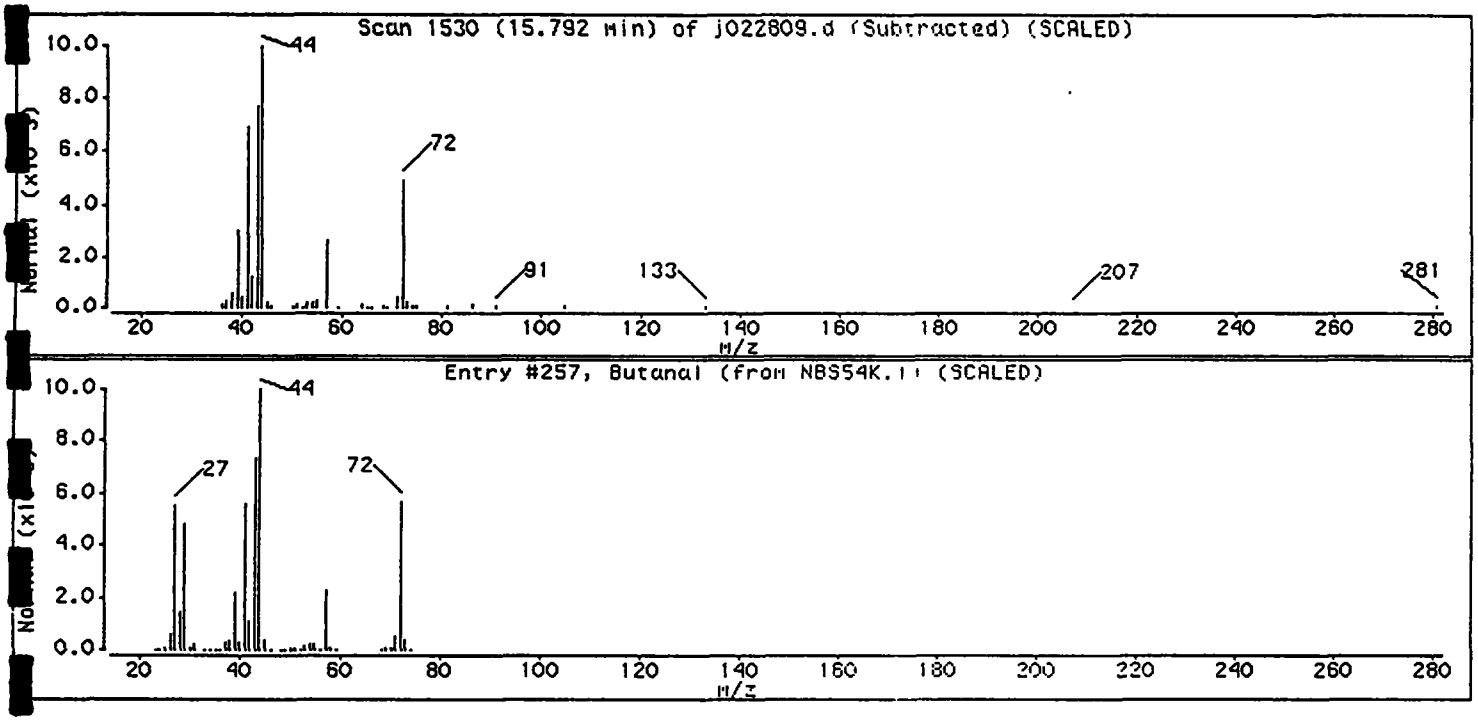
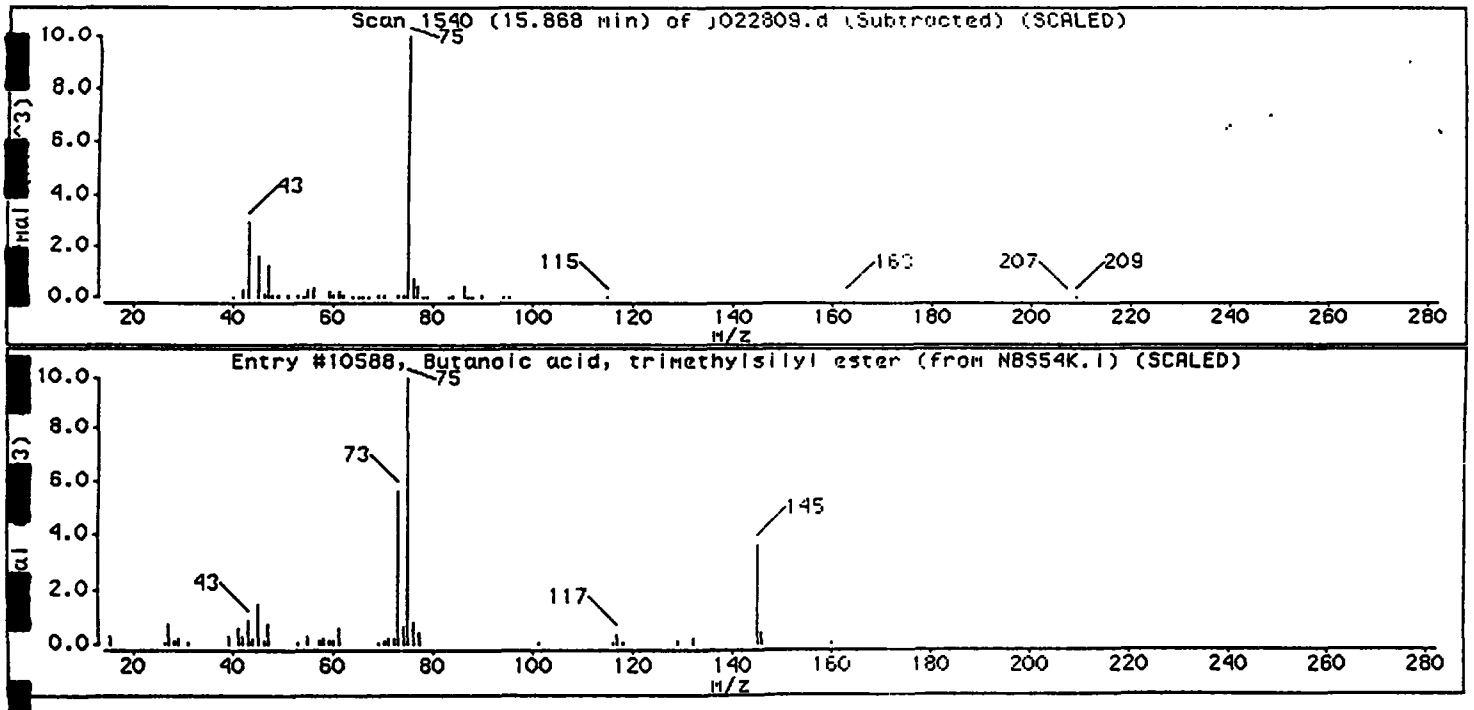


Data File: /chem/msdj.i/j-28feb.b/j022809.d
Date : 28-FEB-97 17:04
Instrument: msdj.i
Client ID: 022297U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanal	123-72-8	NBS54K.I	257	90

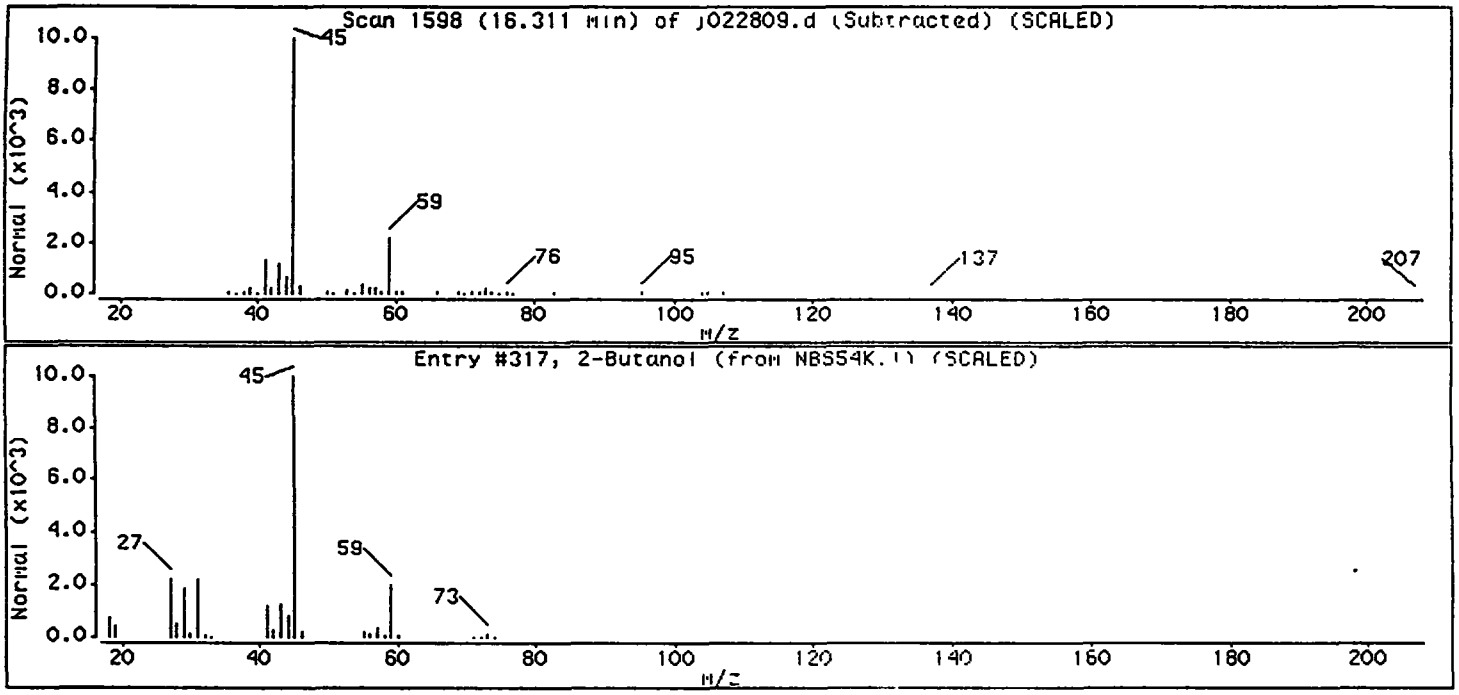


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanoic acid, trimethylsilyl ester	16844-99-8	NBS54K.I	10588	64

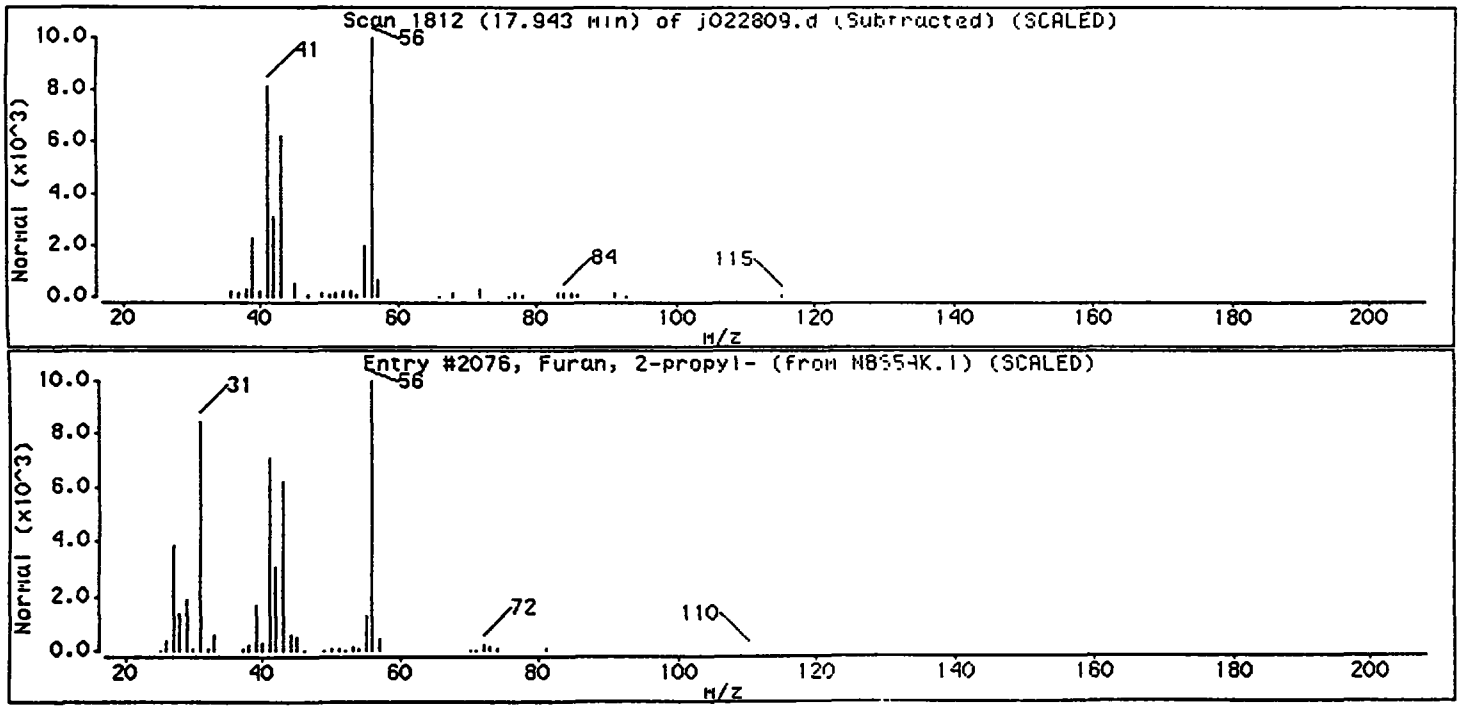


Data File: /chem/msdj.i/j-28feb.b/j022809.d
Date : 28-FEB-97 17:04
Instrument: msdj.i
Client ID: 022297U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
2-Butanol	78-92-2	NBS54K.I	317	78

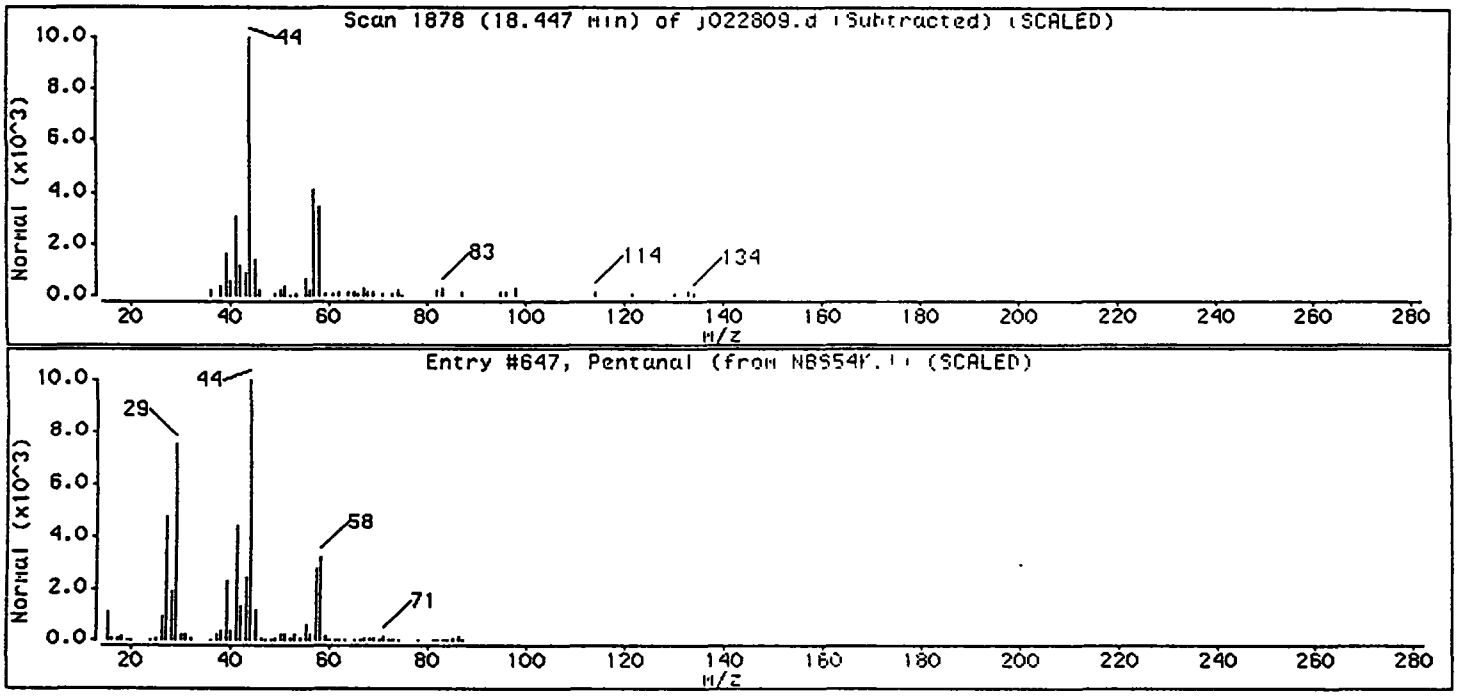


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Furan, 2-propyl-	4229-91-8	NBS54K.I	2076	78

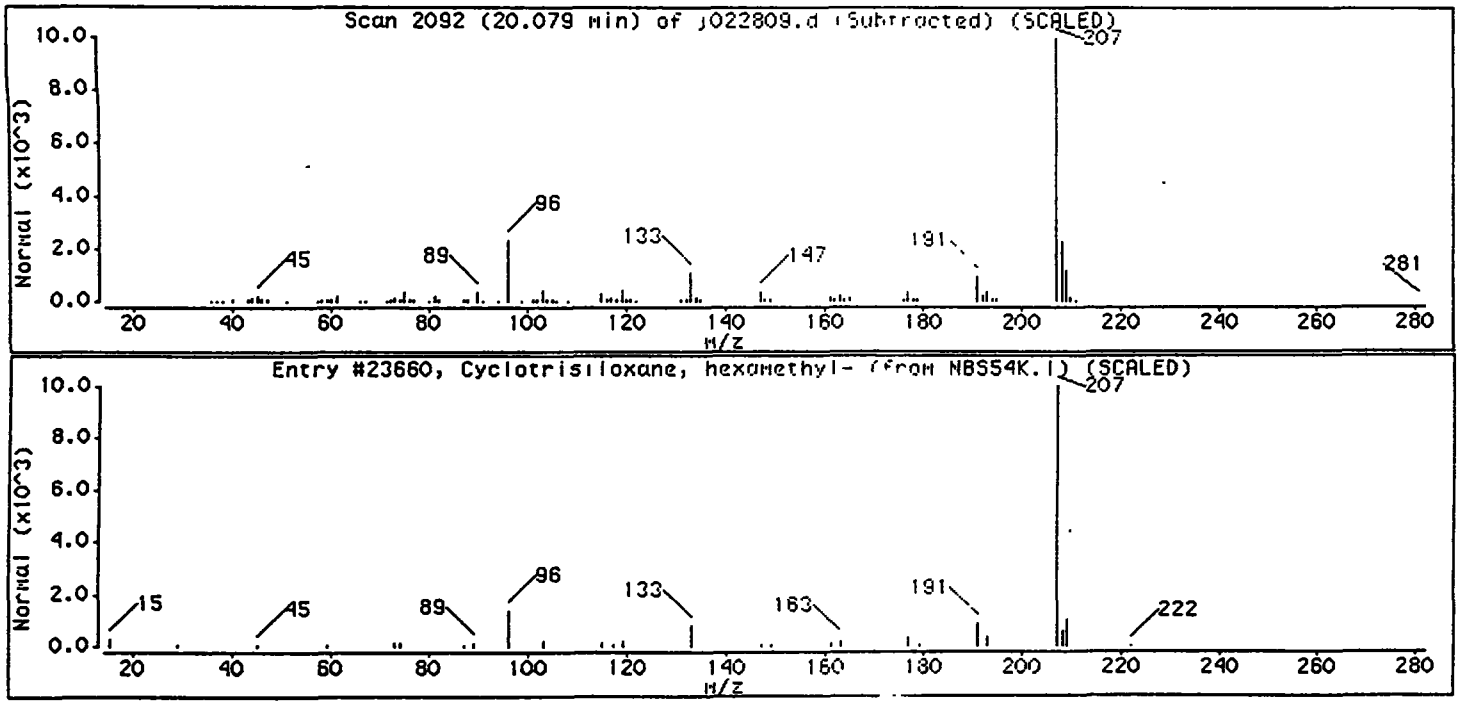


Data File: /chem/msdj.i/j-28feb.b/j022809.d
Date : 28-FEB-97 17:04
Instrument: msdj.i
Client ID: 022297U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Pentanal	110-62-3	NBS54K.I	647	56



Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS54K.I	23660	59



Data File: /chem/msdj.i/j-28feb.b/j022809.d
Date : 28-FEB-97 17:04
Instrument: msdj.i
Client ID: 022297U1
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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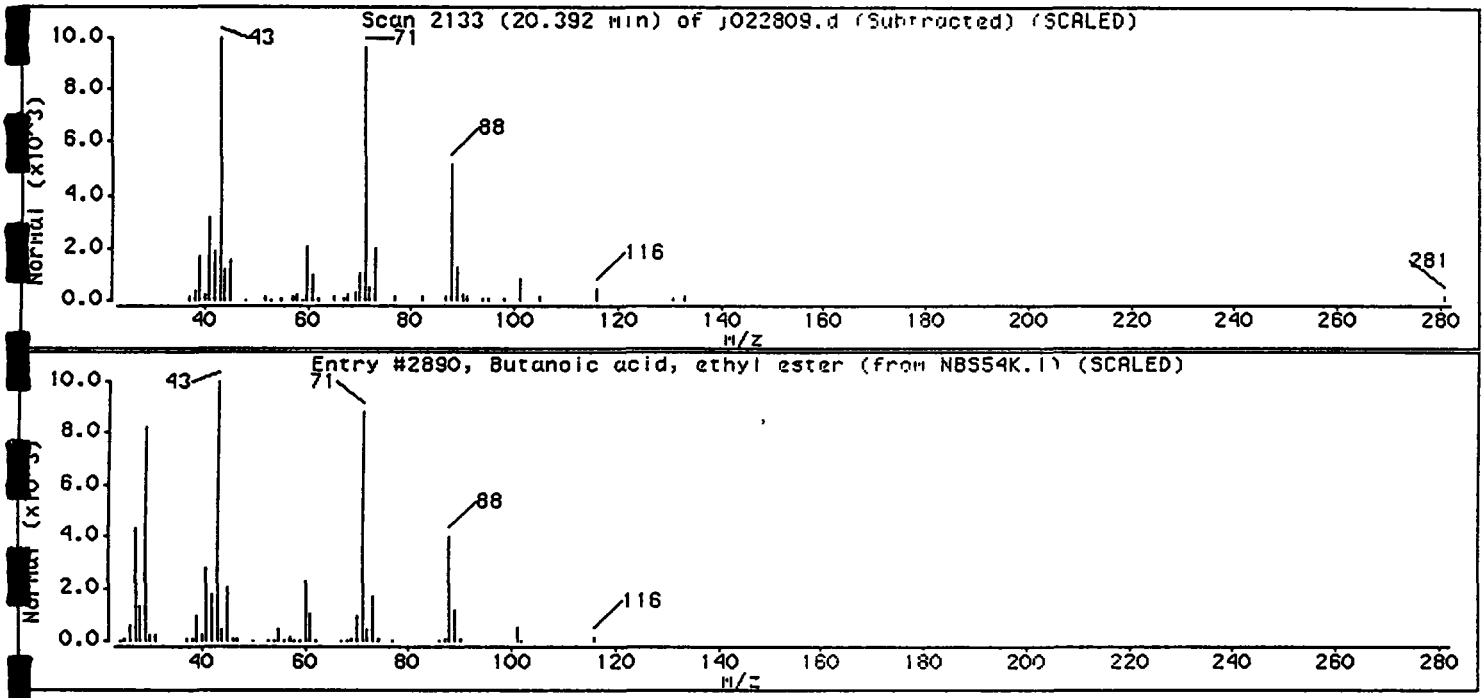
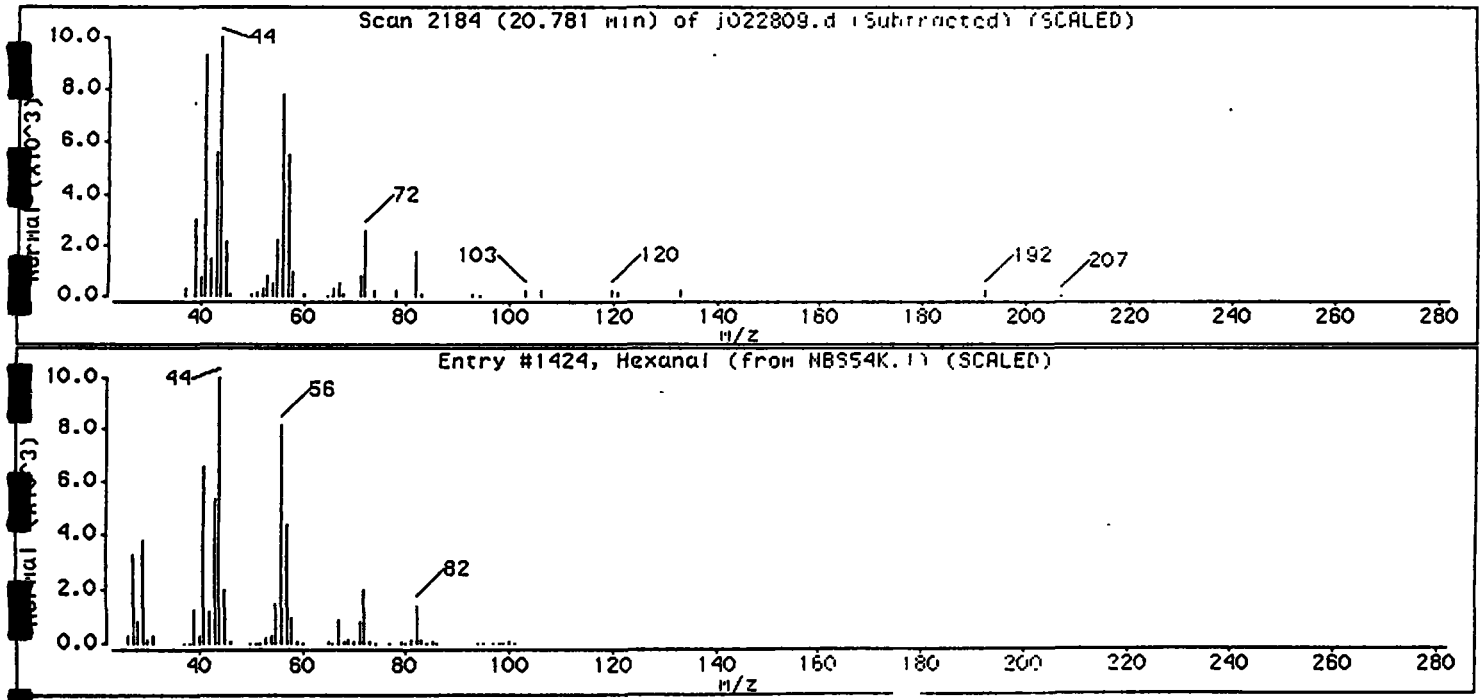


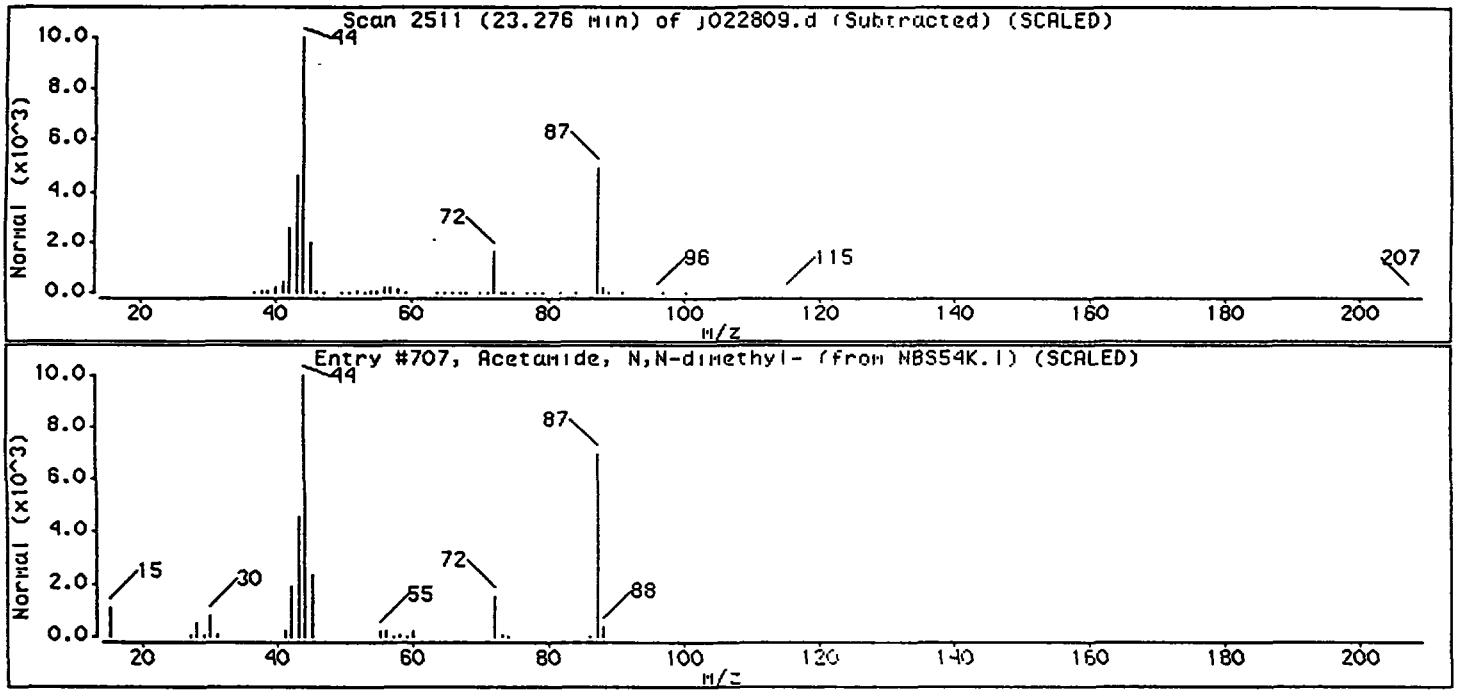
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexanal	66-25-1	NBS54K.I	1424	90



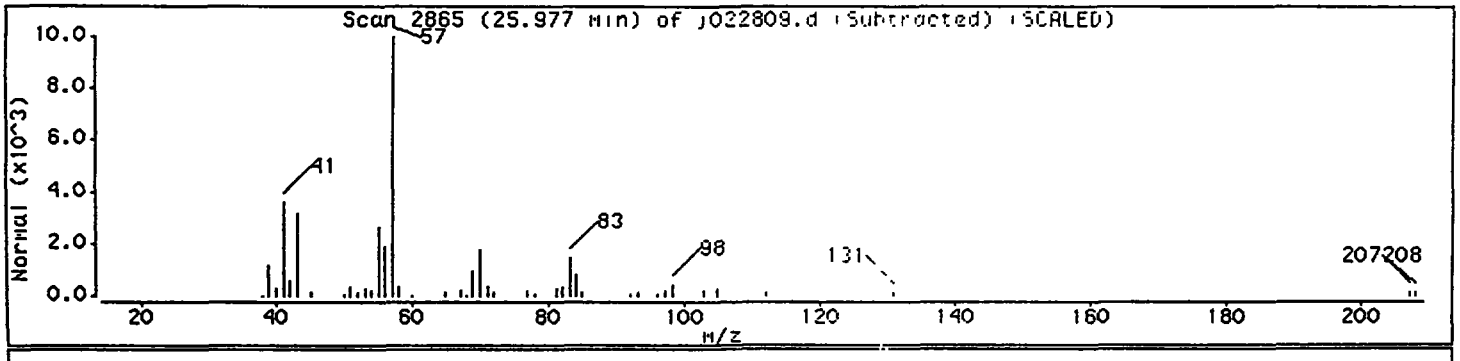
Data File: /chem/msdj.i/j-28feb.b/j022809.d
Date : 28-FEB-97 17:04
Instrument: msdj.i
Client ID: 022297U1
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetamide, N,N-dimethyl-	127-19-5	NBS54K.I	707	86

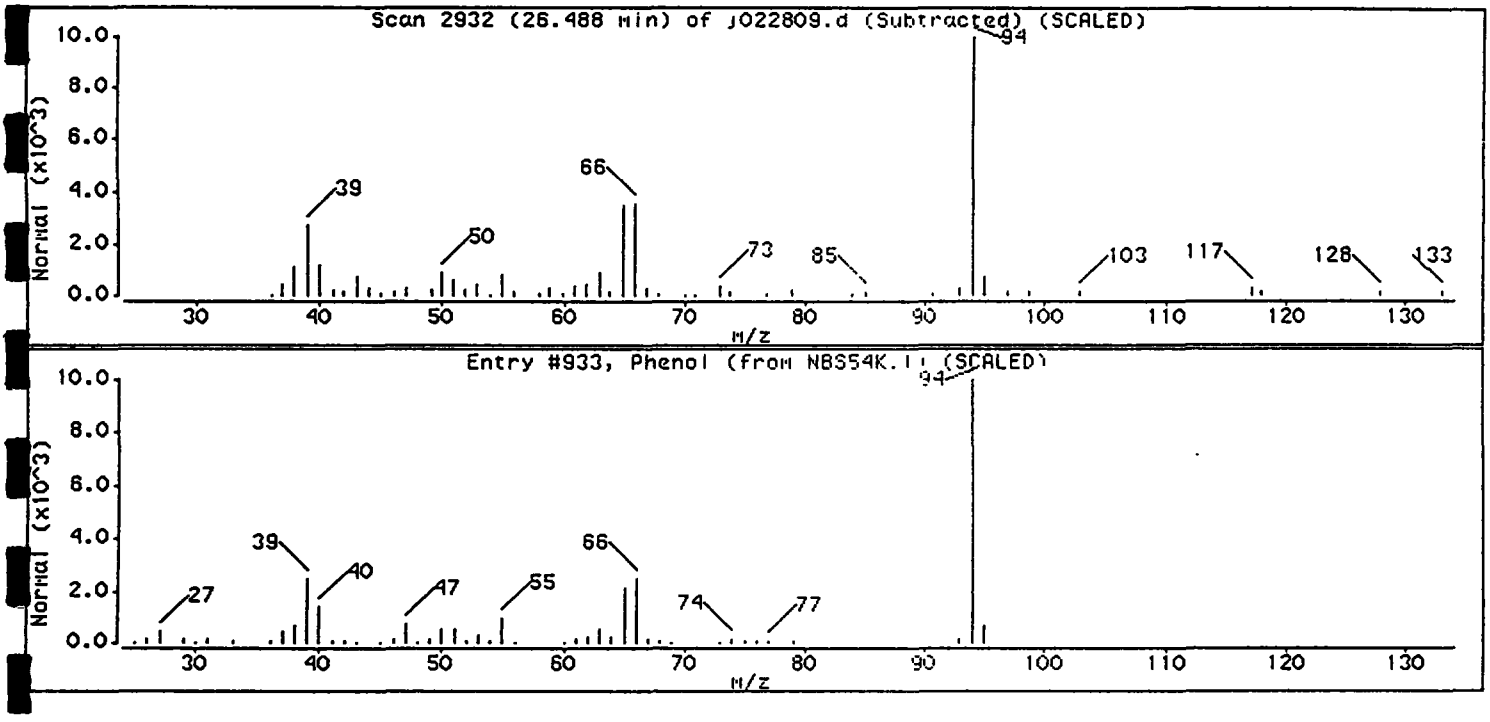


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



Data File: /chem/msdj.i/j-28feb.b/j022809.d
Date : 28-FEB-97 17:04
Instrument: msdj.i
Client ID: 022297U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Phenol	108-95-2	NBS54K.I	933	91



AIR TOXICS LTD.

SAMPLE NAME: 022297D1

ID#: 9702192-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022810	Date of Collection:	2/22/97
Dil. Factor:	1.87	Date of Analysis:	2/28/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.94	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected
1,1,1-Trichloroethane	0.19	0.22
Benzene	0.19	0.26
1,2-Dichloroethane	0.19	Not Detected
Trichloroethene	0.19	Not Detected
1,2-Dichloropropane	0.19	Not Detected
Toluene	0.19	Not Detected
Tetrachloroethene	0.19	Not Detected
Chlorobenzene	0.19	Not Detected
Ethyl Benzene	0.19	Not Detected
m,p-Xylene	0.19	Not Detected
o-Xylene	0.19	Not Detected
Styrene	0.19	Not Detected
Acetone	0.94	9.8
Carbon Disulfide	0.94	Not Detected
trans-1,2-Dichloroethene	0.94	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	1.6

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	94	70-130
Toluene-d8	108	70-130
4-Bromofluorobenzene	100	70-130

REVIEWED BY
MAR 3 1997
FRANCISCO AYALA

Data File: /chem/msdj.i/j-28feb.b/j022810.d
Report Date: 28-Feb-1997 19:17

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-28feb.b/j022810.d
Lab Smp Id: 9702192-02A
Inj Date : 28-FEB-1997 17:47
Operator : JMP
Smp Info : 500mL Can#13668
Misc Info : 8.5" Hg-5.0 psi Parson Eng. Sci.
Comment :
Method : /chem/msdj.i/j-28feb.b/to140109.m
Meth Date : 28-Feb-1997 14:41 mhe
Cal Date : 09-JAN-1997 12:48
Als bottle: 1
Dil Factor: 1.870
Integrator: HP RTE
Target Version: 3.12
Concentration Formula: Uf * Vf

Client Smp ID: 022297D1
Inst ID: msdj.i
Quant Type: ISTD
Cal File: j010909.d
Compound Sublist: Parsons.sub
Sample Matrix: AIR

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

2/28/97

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5		100.00	9018
16.420	16.358 (1.000)	130	217458	5.0			100.00	
16.420	16.358 (0.000)	128	48736			27.69- 127.69	22.41	
16.420	16.358 (0.000)	49	129089			149.56- 249.56	59.36	
$ 35 Octafluorotoluene					CAS #: 434-64-0		100.00	8133
16.931	16.892 (1.031)	217	475472	4.7	4.7		100.00	
16.931	16.892 (0.000)	186	94888			14.61- 114.61	19.96	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3		100.00	9257
17.755	17.700 (1.000)	114	987831	5.0			100.00	
17.755	17.700 (0.000)	88	55088			0.00- 68.88	5.58	
$ 49 Toluene-d8					CAS #: 2037-26-5		100.00	9980
19.769	19.730 (1.113)	98	969492	5.4	5.4		100.00	
19.769	19.730 (0.000)	70	36552			0.00- 63.82	3.77	
19.769	19.730 (0.000)	100	180608			14.95- 114.95	18.63	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4		100.00	9916
21.837	21.790 (1.000)	117	857716	5.0			100.00	
21.837	21.790 (0.000)	82	147648			13.86- 113.86	17.21	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 65 Bromofluorobenzene					CAS #: 460-00-4			
23.675	23.621 (1.084)	95	663279	5.0	5.0		100.00	8026
23.675	23.621 (0.000)	174	86704			5.46- 105.46	13.07	
23.675	23.621 (0.000)	176	86384			7.57- 107.57	13.02	
16 Acetone					CAS #: 67-64-1			
13.231	13.092 (0.806)	43	449003	5.2	9.8		100.00	
13.223	13.092 (0.805)	58	129743			0.00- 79.57	28.90	
28 2-Butanone					CAS #: 78-93-3			
16.069	15.991 (0.979)	72	19953	0.83	1.6		100.00	7529(Q)
16.069	15.991 (0.000)	43	23032			469.65- 569.65	115.43	
16.069	15.991 (0.000)	57	1310			0.00- 83.89	6.57	
33 1,1,1-Trichlorethane					CAS #: 71-55-6			
16.778	16.724 (1.022)	97	11755	0.12	0.22		100.00	7156
16.778	16.724 (0.000)	99	2086			15.93- 115.93	17.75	
37 Benzene					CAS #: 71-43-2			
17.305	17.250 (0.975)	78	26323	0.14	0.26		100.00	8912
17.305	17.250 (0.000)	77	2296			0.00- 74.19	8.72	

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Audit History For: /chem/msdj.i/j-28feb.b/j022810.d

Change Date: 28-Feb-97 18:13
Change Made by: Automation

Parameter: ChemLan Data Transfer
Old Value:
New Value:
Reason For Change: MS Data from Instrument: msdj.i

2/28/97

Change Date: 28-Feb-97 18:13
Change Made by: Automation

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-28feb.b/to140109.m
Reason For Change: Complete Target Compound Processing

Change Date: 28-Feb-97 18:58
Change Made by: jparker

Parameter: date
Old Value: 28-FEB-97 17:47
New Value: 28-FEB-1997 17:47
Reason For Change: N/A

Change Date: 28-Feb-97 18:58
Change Made by: jparker

Parameter: Misc Information
Old Value:
New Value: 8.5" Hg-5.0 psi Parson Eng. Sci.
Reason For Change: N/A

Change Date: 28-Feb-97 18:58
Change Made by: jparker

Parameter: Compound Sublist
Old Value: AT.sub
New Value: Parsons.sub
Reason For Change: N/A

Change Date: 28-Feb-97 18:58
Change Made by: jparker

Parameter: Acquisition Operator
Old Value: MH
New Value: JMP
Reason For Change: N/A

Change Date: 28-Feb-97 18:58
Change Made by: jparker

Parameter: Sample Info
Old Value: 9702192-02A 500mL Can#13668 8.5"-5psi 022297D1
New Value: 500mL Can#13668
Reason For Change: N/A

Change Date: 28-Feb-97 18:58
Change Made by: jparker

Parameter: Lab ID
Old Value:
New Value: 9702192-02A
Reason For Change: N/A

Change Date: 28-Feb-97 18:58
Change Made by: jparker

Parameter: Client ID
Old Value: VSTD150
New Value: 022297D1
Reason For Change: N/A

Change Date: 28-Feb-97 18:58
Change Made by: jparker

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-28feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 28-Feb-97 18:59
Change Made by: jparker

Parameter: Best Hit for Carbon Disulfide changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 18:59
Change Made by: jparker

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 18:59
Change Made by: jparker

Parameter: Best Hit for Methylene Chloride changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 18:59
Change Made by: jparker

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 18:59
Change Made by: jparker

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #2
New Value: Compound Undetected

Reason For Change: N/A

Change Date: 28-Feb-97 18:59
Change Made by: jparker

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 18:59
Change Made by: jparker

Parameter: Best Hit for Toluene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 18:59
Change Made by: jparker

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 19:01
Change Made by: jparker

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-28feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 28-Feb-97 19:17
Change Made by: jparker

Parameter: Best Hit for 1,2-Dichloropropane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 19:17
Change Made by: jparker

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Data File: /chem/msdj.i/j-28feb.b/j022810.d
Report Date: 03-Mar-1997 10:50

MH 3/3/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-28feb.b/j022810.d
Lab Smp Id: 9702192-02A Client Smp ID: 022297D1
Inj Date : 28-FEB-97 17:47
Operator : JMP Inst ID: msdj.i
Smp Info : 500mL Can#13668
Misc Info : 8.5" Hg-5.0 psi Parson Eng. Sci.
Comment :
Method : /chem/msdj.i/j-28feb.b/to140109.m
Meth Date : 28-Feb-1997 14:41 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.870
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.420	16.358 (1.000)	130	217458	5.0			100.00	9018
16.420	16.358 (0.000)	128	48736			27.69- 127.69	77.66	
16.420	16.358 (0.000)	49	129089			149.56- 249.56	205.71	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.931	16.892 (1.031)	217	475472	4.7	4.7		100.00	8133
16.931	16.892 (0.000)	186	94888			14.61- 114.61	63.93	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.755	17.700 (1.000)	114	987831	5.0			100.00	9257
17.755	17.700 (0.000)	88	55088			0.00- 68.88	19.07	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.769	19.730 (1.113)	98	969492	5.4	5.4		100.00	9980
19.769	19.730 (0.000)	70	36552			0.00- 63.82	12.85	
19.769	19.730 (0.000)	100	180608			14.95- 114.95	63.52	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.837	21.790 (1.000)	117	857716	5.0			100.00	9916
21.837	21.790 (0.000)	82	147648			13.86- 113.86	65.26	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
65 Bromofluorobenzene					CAS #: 460-00-4			
23.675	23.621 (1.084)	95	663279	5.0	5.0		100.00	8026
23.675	23.621 (0.000)	174	86704			5.46- 105.46	55.07	
23.675	23.621 (0.000)	176	86384			7.57- 107.57	54.87	
16 Acetone					CAS #: 67-64-1			
13.231	13.092 (0.806)	43	449003	5.2	9.8		100.00	
13.223	13.092 (0.805)	58	129743			0.00- 79.57	28.90	
17 Carbon Disulfide					CAS #: 75-15-0			
13.414	13.207 (0.817)	76	62308	0.38	0.71 <		100.00	8077
20 Methylene Chloride					CAS #: 75-09-2			
14.047	13.932 (0.855)	84	3907	0.078	0.15 <		100.00	4512(a)
14.047	13.932 (0.000)	49	1414			108.05- 208.05	130.08	
14.047	13.932 (0.000)	51	115			0.00- 96.86	10.58	
28 2-Butanone					CAS #: 78-93-3			
16.069	15.991 (0.979)	72	19953	0.83	1.6		100.00	7529(Q)
16.069	15.991 (0.000)	43	23032			469.65- 569.65	434.16	
16.069	15.991 (0.000)	57	1310			0.00- 83.89	24.69	
33 1,1,1-Trichlorethane					CAS #: 71-55-6			
16.778	16.724 (1.022)	97	11755	0.12	0.22		100.00	7156
16.778	16.724 (0.000)	99	2086			15.93- 115.93	59.14	
37 Benzene					CAS #: 71-43-2			
17.305	17.250 (0.975)	78	26323	0.14	0.26		100.00	8912
17.305	17.250 (0.000)	77	2296			0.00- 74.19	28.92	
38 1,2-Dichloroethane					CAS #: 107-06-2			
17.747	17.258 (1.000)	62	37647	0.51	0.95		100.00	3486(Q)
17.747	17.258 (0.000)	64	11653			0.00- 80.62	104.04	
43 1,2-Dichloropropane					CAS #: 78-87-5			
18.091	18.410 (1.019)	63	1361	0.021	0.039		100.00	2943(aQ)
18.091	18.410 (0.000)	62	20			24.97- 124.97	14.39	
18.091	18.410 (0.000)	41	0			11.72- 111.72	0.00	
51 Toluene					CAS #: 108-88-3			
19.861	19.821 (1.119)	92	9171	0.080	0.15 <		100.00	6412(a)
19.861	19.821 (0.000)	91	3359			112.85- 212.85	140.02	

C Flag Legend

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

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-28feb.b/j022810.d
Lab Smp Id: 9702192-02A Client Smp ID: 022297D1
Inj Date : 28-FEB-1997 17:47
Operator : JMP Inst ID: msdj.i
Smp Info : 500mL Can#13668
Misc Info : 8.5" Hg-5.0 psi Parson Eng. Sci.
Comment :
Method : /chem/msdj.i/j-28feb.b/to140109.m
Meth Date : 28-Feb-1997 14:41 mhe
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.870 Target Version: 3.12
Integrator: HP RTE Compound Sublist: Parsons.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

ISTD	RT	AREA	AMOUNT
* 30 Bromochloromethane	16.420	1503743	5.000
* 40 1,4-Difluorobenzene	17.755	2556764	5.000
* 58 Chlorobenzene-d5	21.837	2943734	5.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.014	1265876	4.2	7.9	0		0	30
Unknown				CAS #:			
8.951	93555	0.31	0.58	0		0	30
Acetaldehyde				CAS #: 75-07-0			
9.691	670459	2.2	4.2	64	NBS54K.l	37	30

Data File: /chem/msdj.i/j-28feb.b/j022810.d
Report Date: 28-Feb-1997 19:01

RT	AREA	CONCENTRATIONS ON-COL(PPBV)	CONCENTRATIONS FINAL(PPBV)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	CPND #
Unknown					CAS #:		
10.934	105981	0.35	0.66	0		0	30
Unknown					CAS #:		
11.072	1411135	4.7	8.8	0		0	30
Unknown					CAS #:		
14.810	112165	0.37	0.70	0		0	30
Unknown					CAS #:		
15.870	10393941	34.6	64.6	0		0	30
Unknown					CAS #:		
18.457	246270	0.48	0.90	0		0	40
Arsenous acid, tris(trimethylsilyl) este					CAS #: 55429-29-3		
20.074	559922	0.95	1.8	59	NBS54K.l	41175	58
Acetamide, N,N-dimethyl-					CAS #: 127-19-5		
23.271	2323436	3.9	7.4	86	NBS54K.l	707	58

QC Flag Legend

Q - Qualifier signal failed the ratio test.

Data File: /chem/msdj.i/j-28feb.b/j022810.d
Report Date: 28-Feb-1997 19:01

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j022810.d
Lab Smp Id: 9702192-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: JMP
Method File: /chem/msdj.i/j-28feb.b/to140109.m
Misc Info: 8.5" Hg-5.0 psi Parson Eng. Sci.

Calibration Date: 02/28/97
Calibration Time: 1304
Client Smp ID: 022297D1
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	246183	147710	344656	217458	-11.67
40 1,4-Difluorobenzene	1105494	663296	1547692	987831	-10.64
58 Chlorobenzene-d5	900467	540280	1260654	857716	-4.75

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	16.41	15.91	16.91	16.42	0.07
40 1,4-Difluorobenzene	17.75	17.25	18.25	17.75	0.02
58 Chlorobenzene-d5	21.85	21.35	22.35	21.84	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

2/28/97

Data File: /chem/msdj.i/j-28feb.b/j022810.d
Report Date: 28-Feb-1997 19:01

Air Toxics Limited

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 9702192-02A
Level: LOW
Data Type: MS DATA
SpikeList File:
Method File: /chem/msdj.i/j-28feb.b/to140109.m
Misc Info: 8.5" Hg-5.0 psi Parson Eng. Sci.

Client SDG: j-28feb
Fraction: VOA
Client Smp ID: 022297D1
Operator: JMP
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	4.7	94.37	60-140
$ 49 Toluene-d8	5.0	5.4	108.47	60-140
$ 65 Bromofluorobenzene	5.0	5.0	99.87	60-140

2/28/97

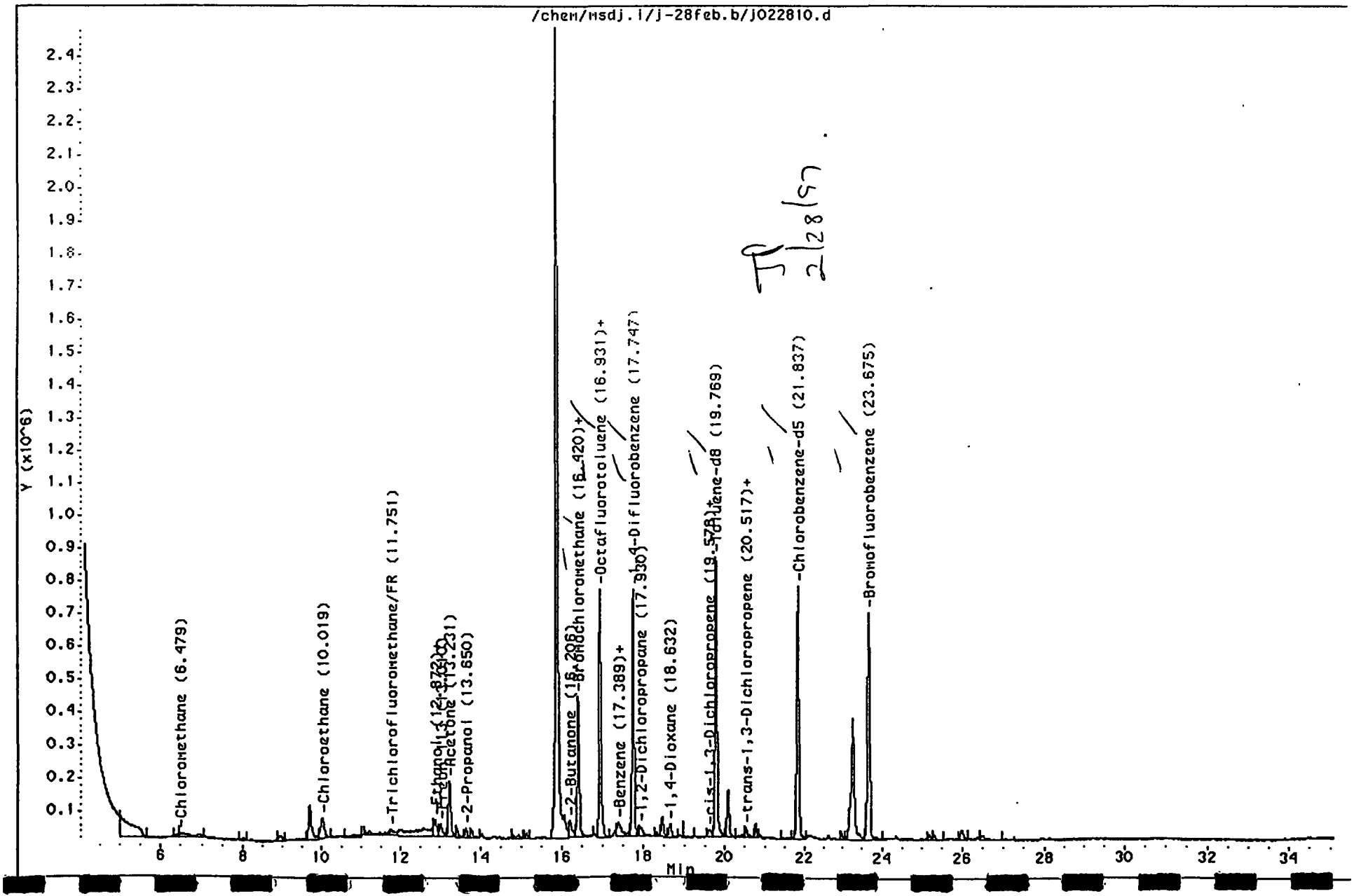
0054

Data File: /chem/msdj.i/j-28feb.b/j022810.d
Date : 28-FEB-1997 17:47
Client ID: 022297D1
Sample Info: 500mL Can#13668

Column phase: RTx-624

Instrument: msdj.i

Operator: JMP
Column diameter: 0.58



Data File: /chem/msdj.i/j-28feb.b/j022810.d

Page 5

Date : 28-FEB-97 17:47

Client ID: 022297D1

Instrument: msdj.i

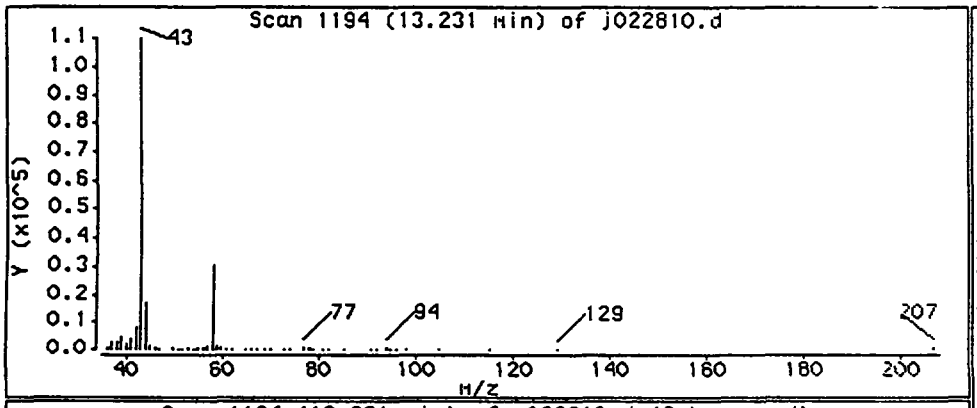
Sample Info: 500mL Can#13668

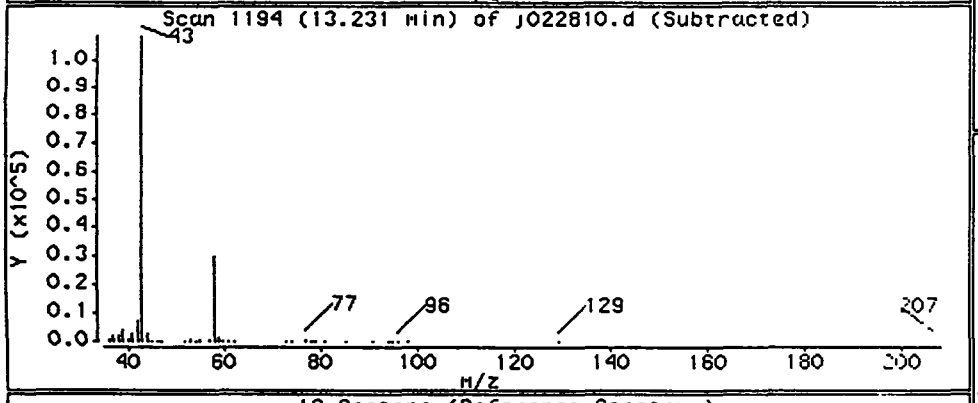
Operator: JMP

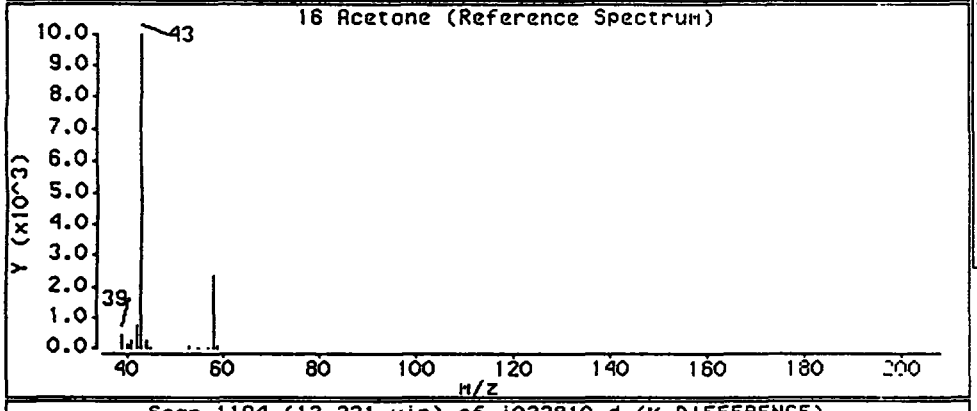
Column phase: RTx-624

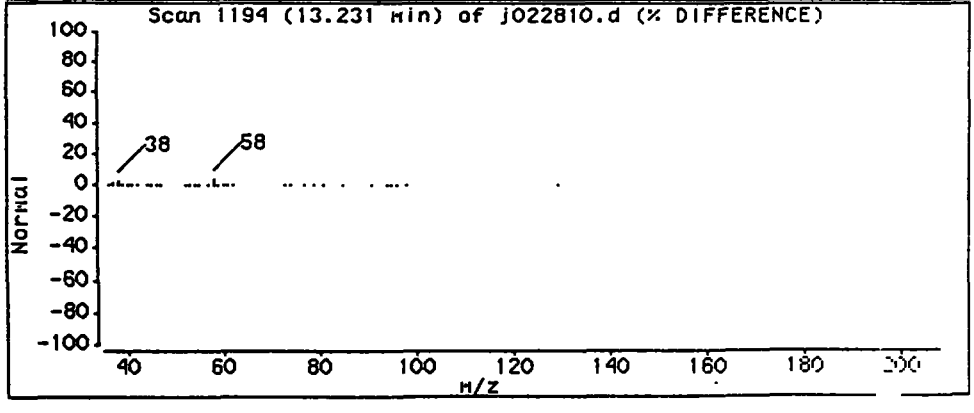
Column diameter: 0.58

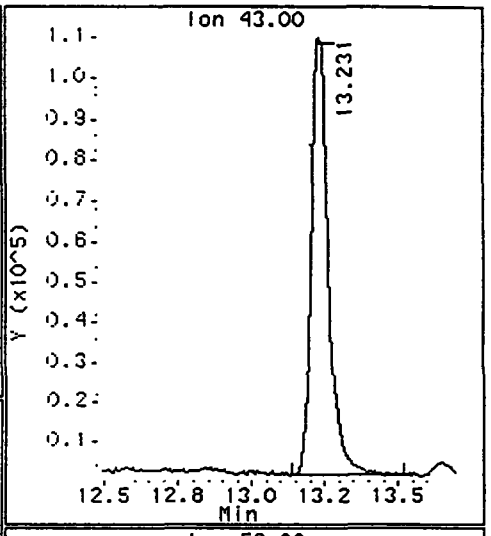
16 Acetone

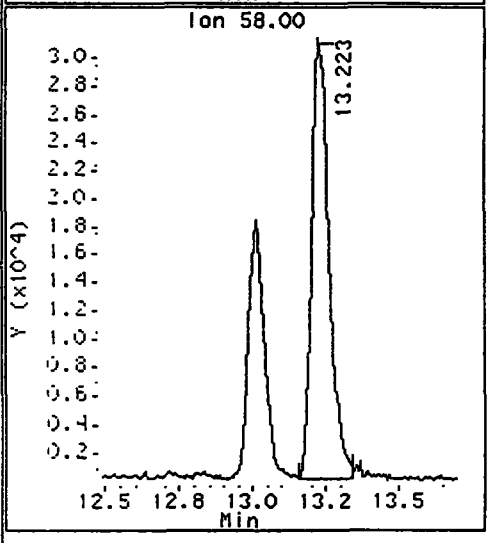












Data File: /chem/msdj.i/j-28feb.b/j022810.d

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Date : 28-FEB-97 17:47

Client ID: 022297D1

Instrument: msdj.i

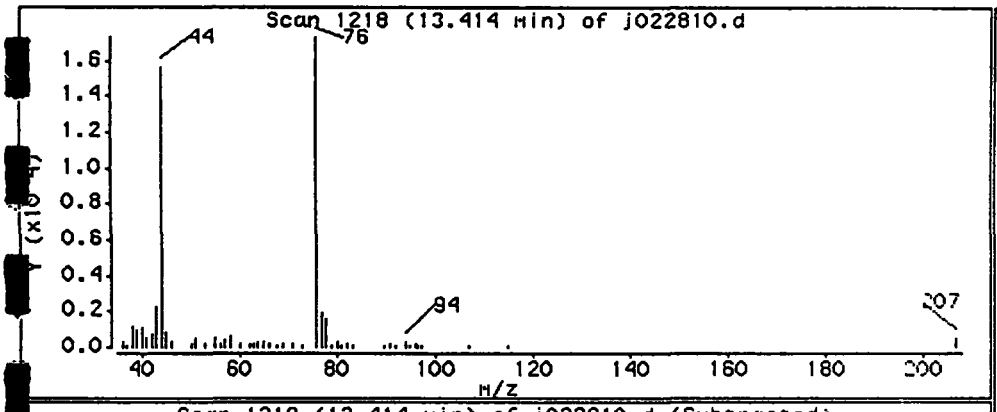
Sample Info: 500mL Can#13668

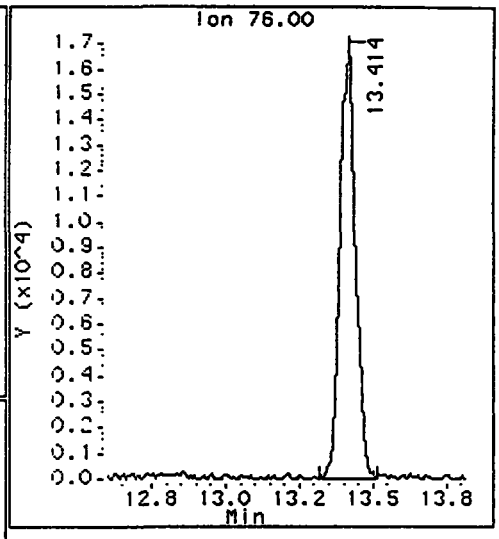
Operator: JMP

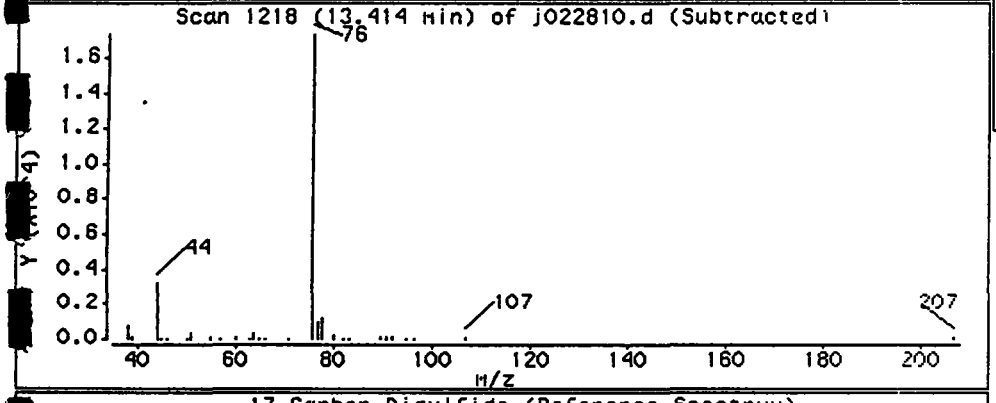
Column phase: RTx-624

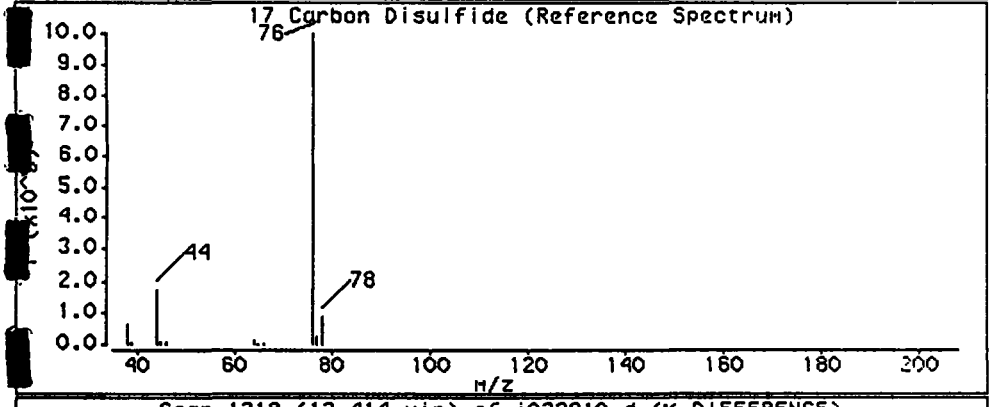
Column diameter: 0.58

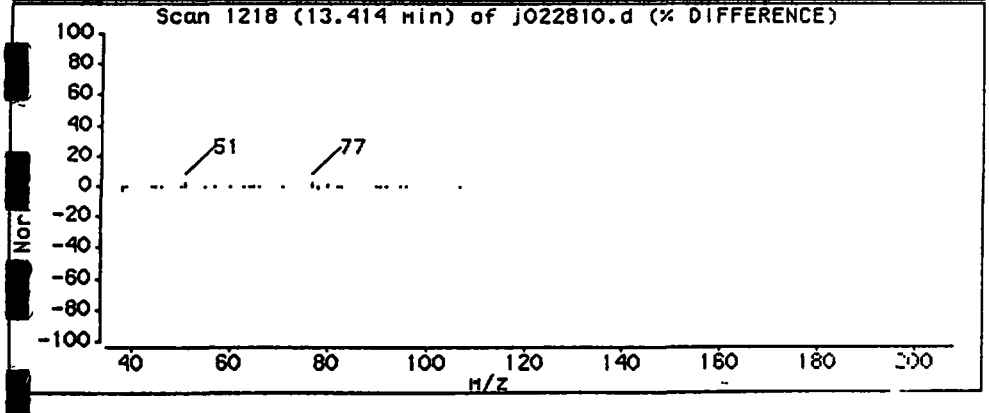
17 Carbon Disulfide











Data File: /chem/msdj.i/j-28feb.b/j022810.d

Date : 28-FEB-97 17:47

Client ID: 022297D1

Instrument: msdj.i

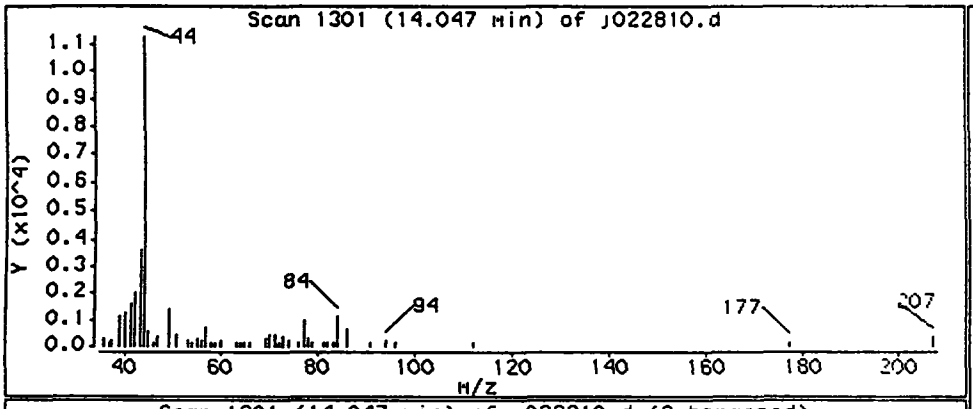
Sample Info: 500mL Can#13668

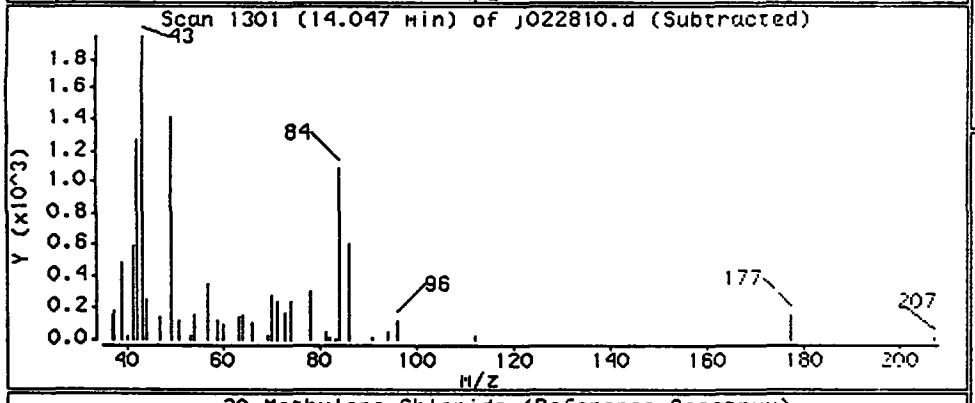
Operator: JMP

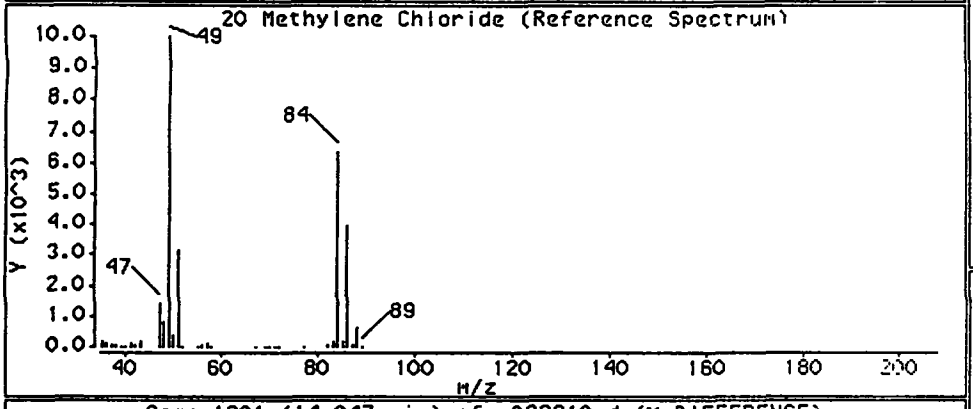
Column phase: RTx-624

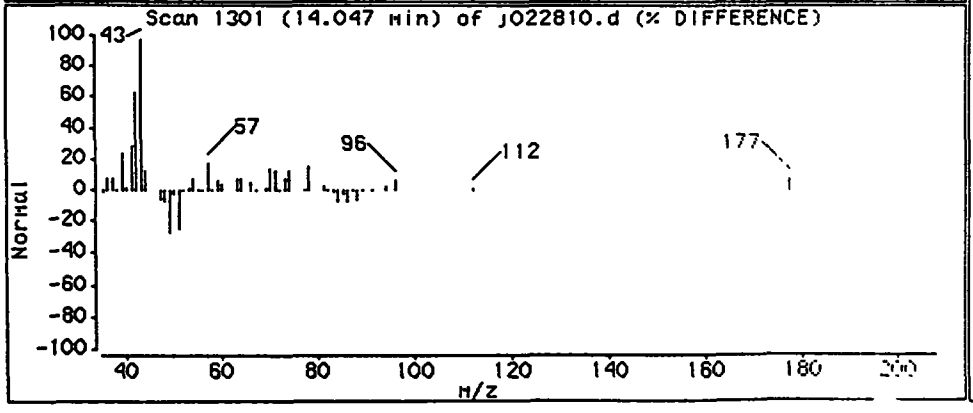
Column diameter: 0.58

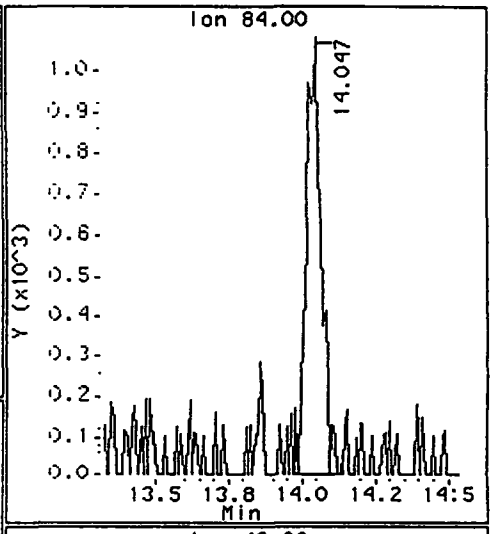
20 Methylene Chloride

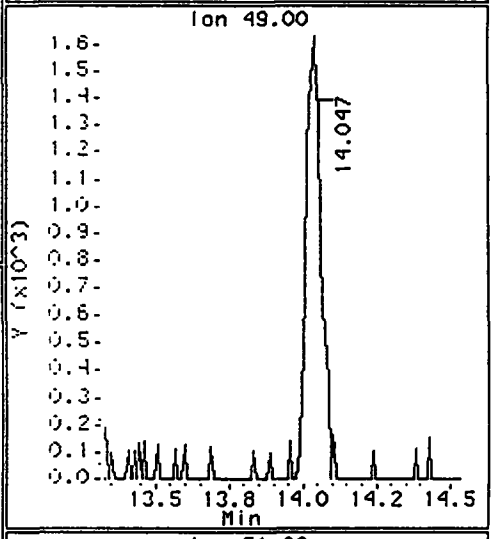


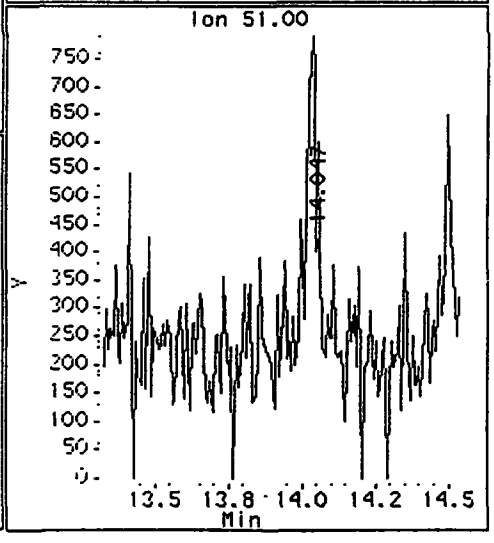












Data File: /chem/msdj.i/j-28feb.b/j022810.d

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Date : 28-FEB-97 17:47

Client ID: 022297D1

Instrument: msdj.i

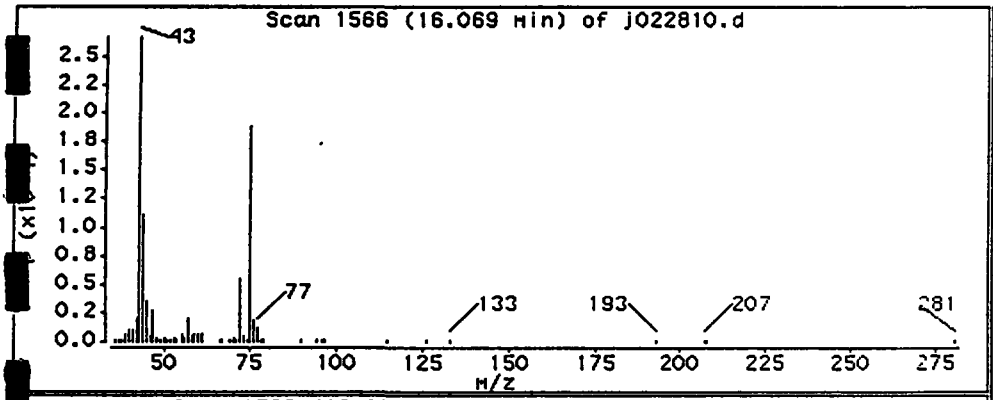
Sample Info: 500mL Can#13668

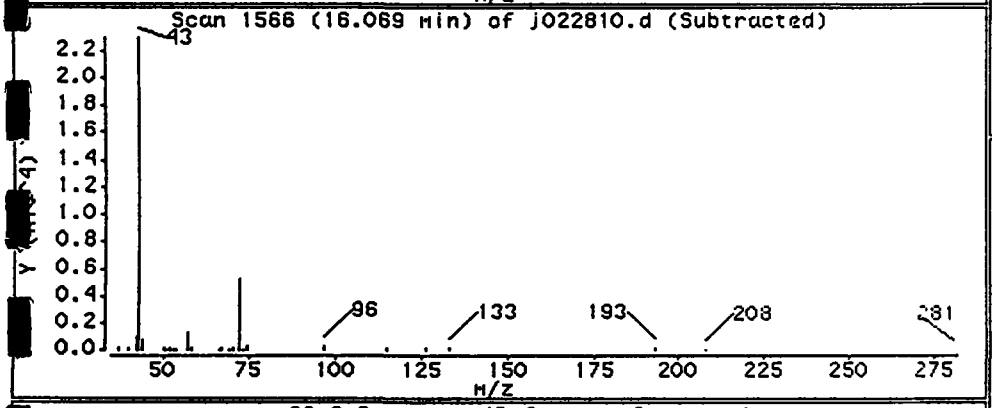
Operator: JMP

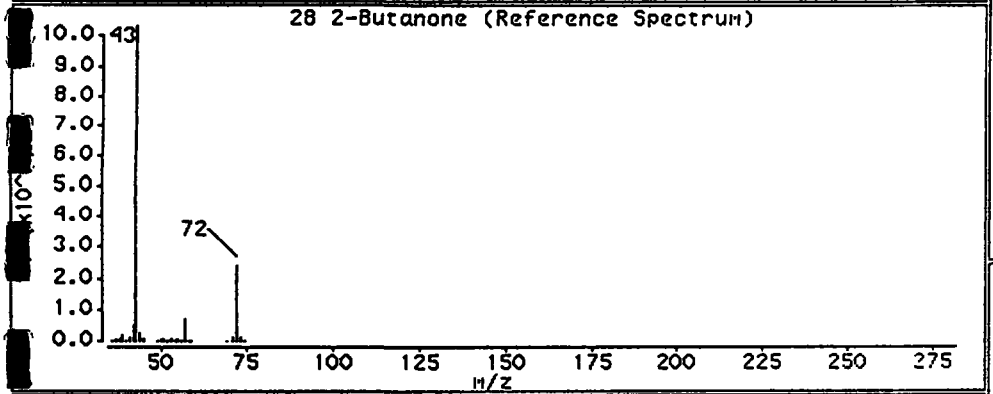
Column phase: RTx-624

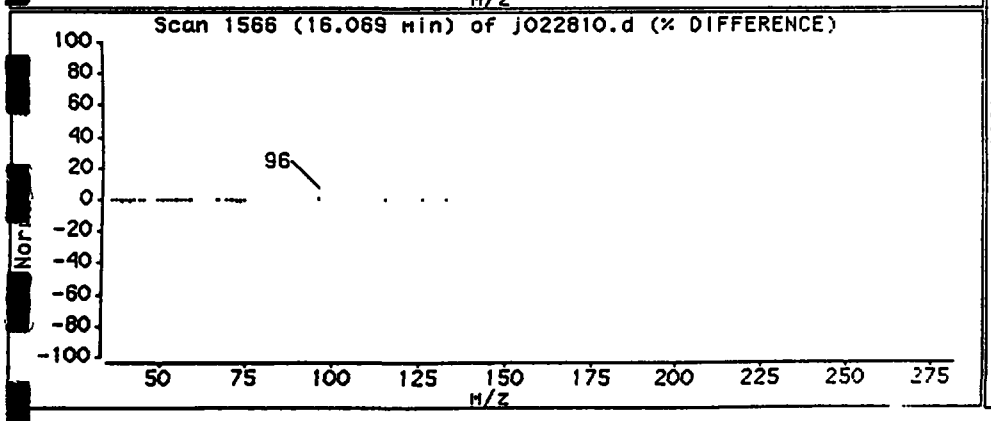
Column diameter: 0.58

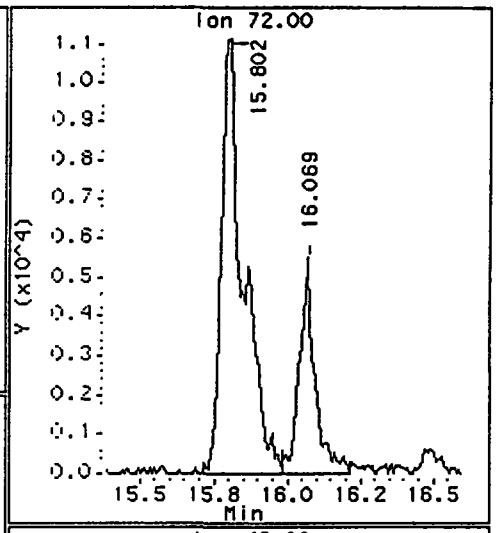
28 2-Butanone

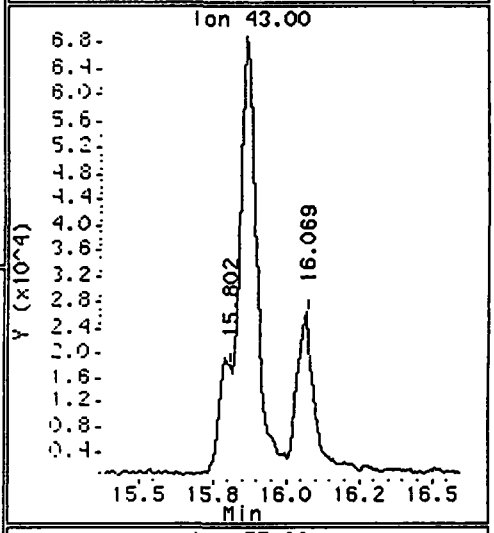


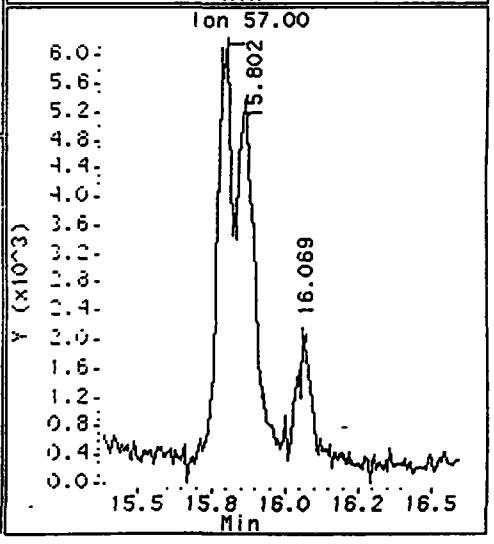












Data File: /chem/msdj.i/j-28feb.b/j022810.d

Date : 28-FEB-97 17:47

Client ID: 022297D1

Instrument: msdj.i

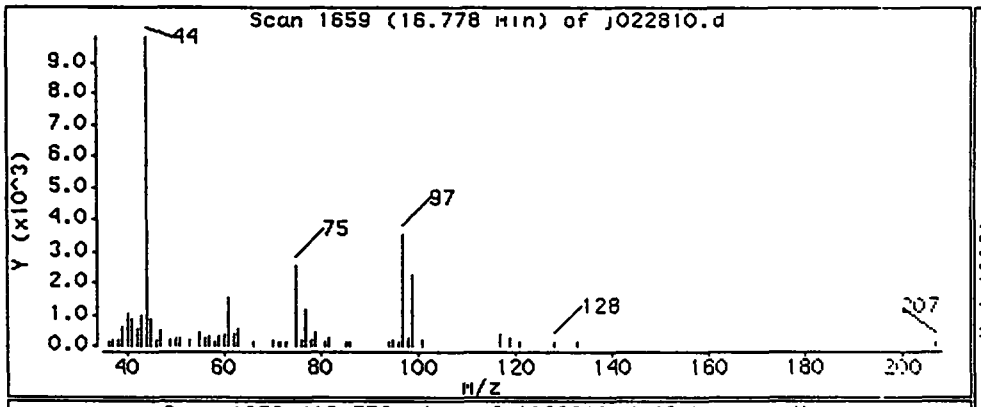
Sample Info: 500mL Can#13668

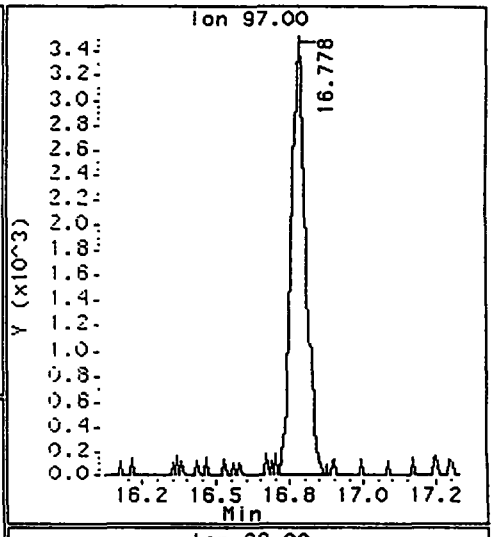
Operator: JMP

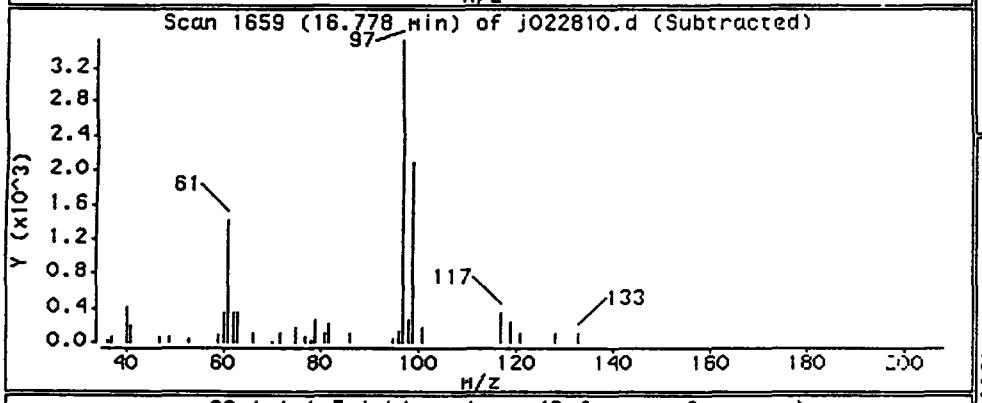
Column phase: RTx-624

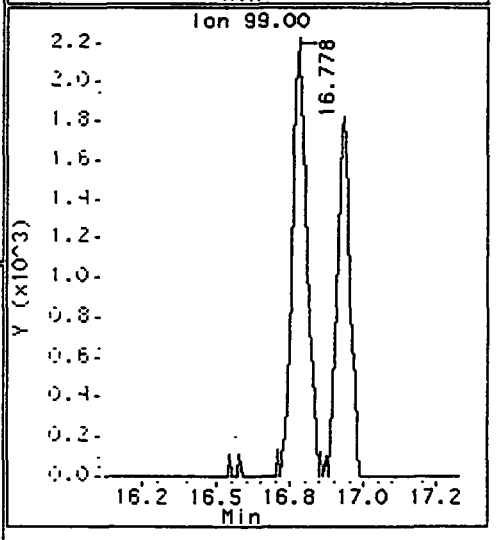
Column diameter: 0.58

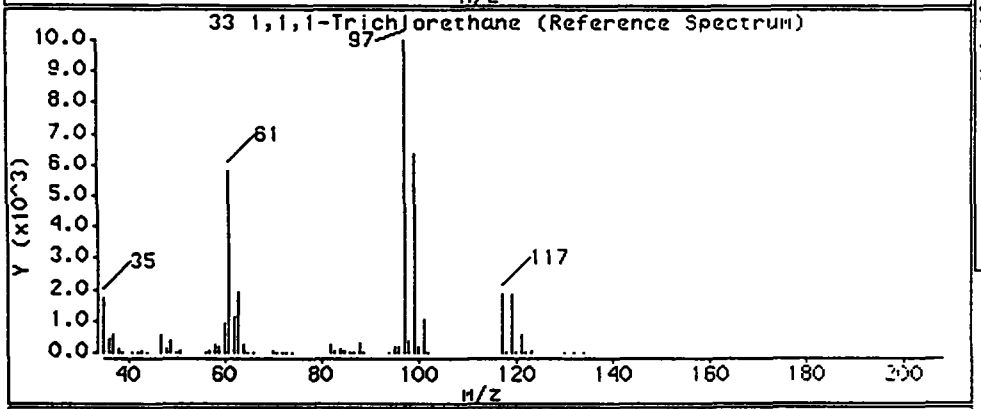
33 1,1,1-Trichlorethane

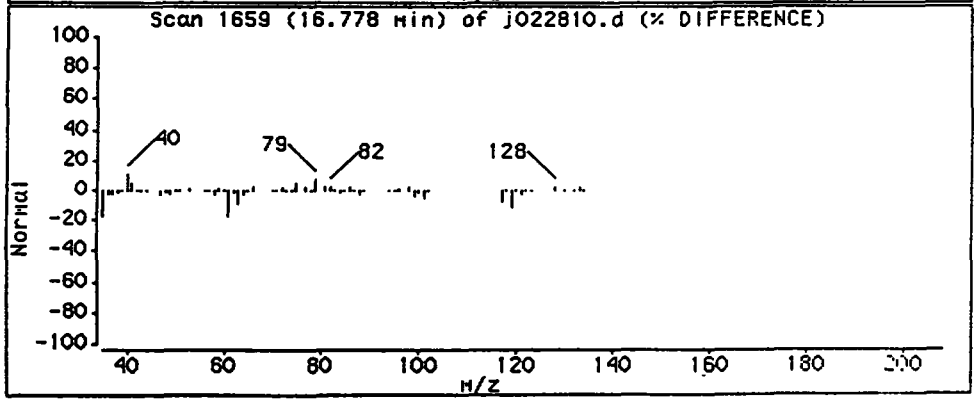












Data File: /chem/msdj.i/j-28feb.b/j022810.d

Date : 28-FEB-97 17:47

Client ID: 02229701

Instrument: msdj.i

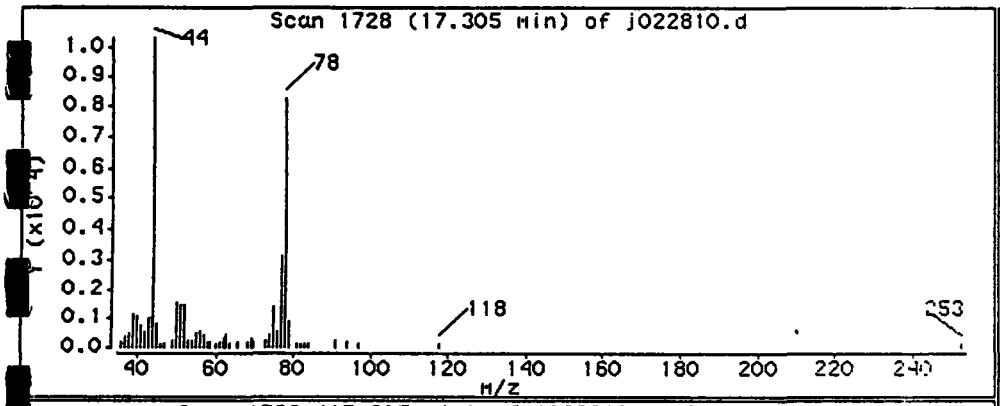
Sample Info: 500mL Can#13668

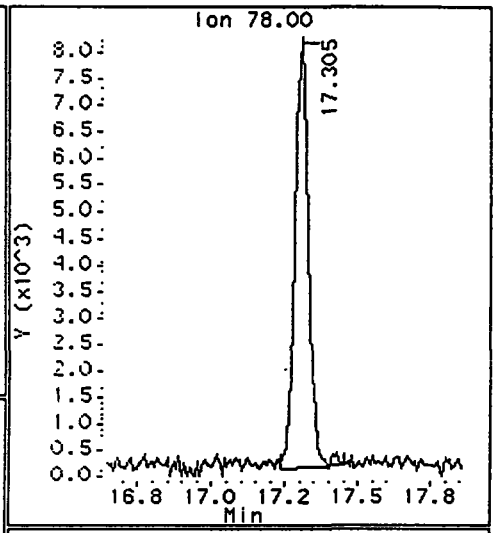
Operator: JMP

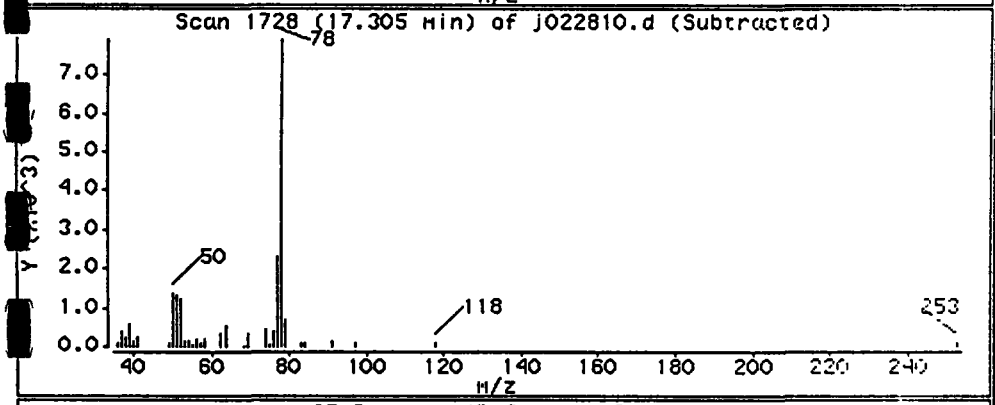
Column phase: RTx-624

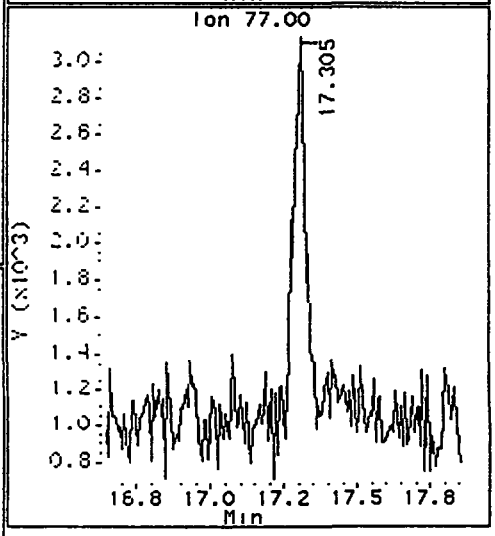
Column diameter: 0.58

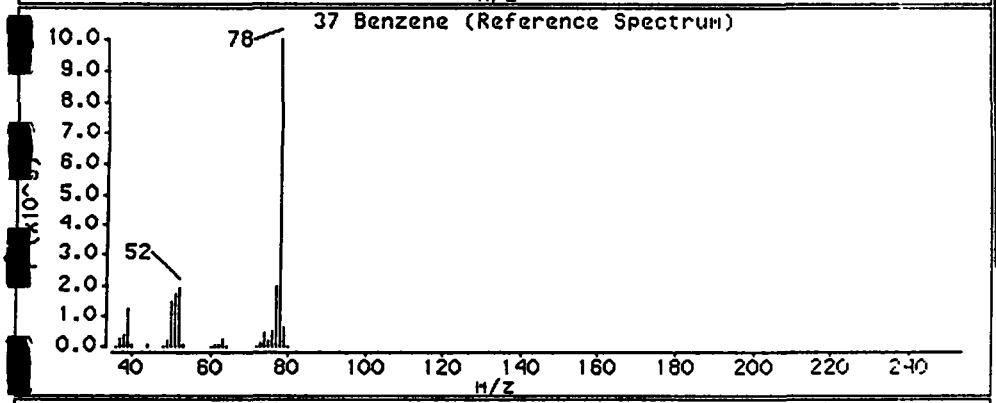
37 Benzene

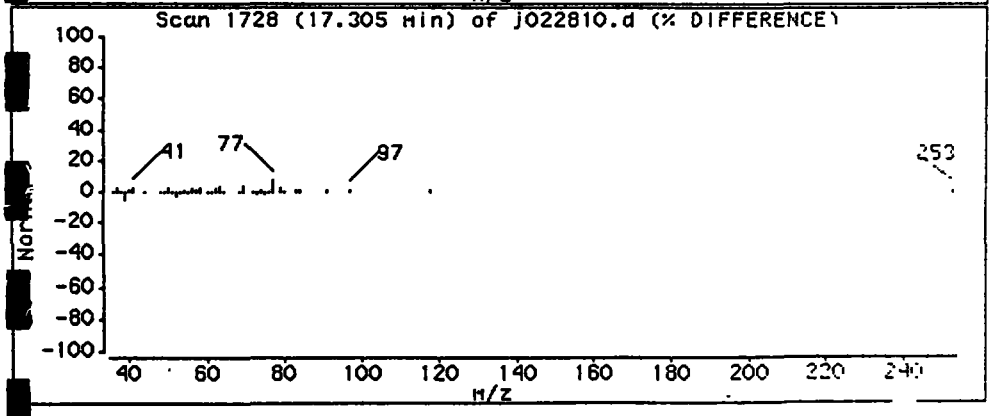












Data File: /chem/msdj.i/j-28feb.b/j022810.d

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Date : 28-FEB-97 17:47

Client ID: 022297D1

Instrument: msdj.i

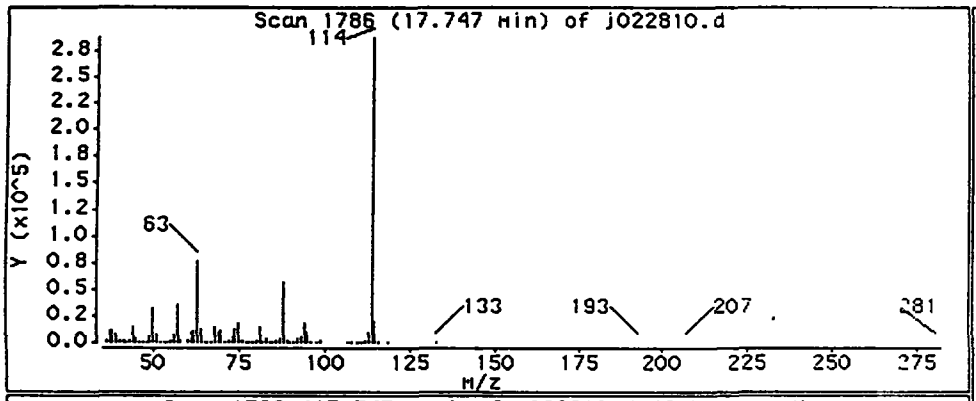
Sample Info: 500mL Can#13668

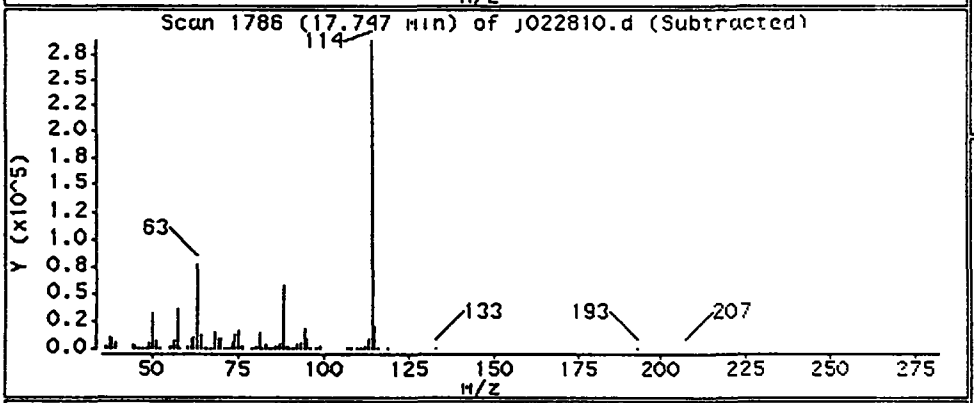
Operator: JMP

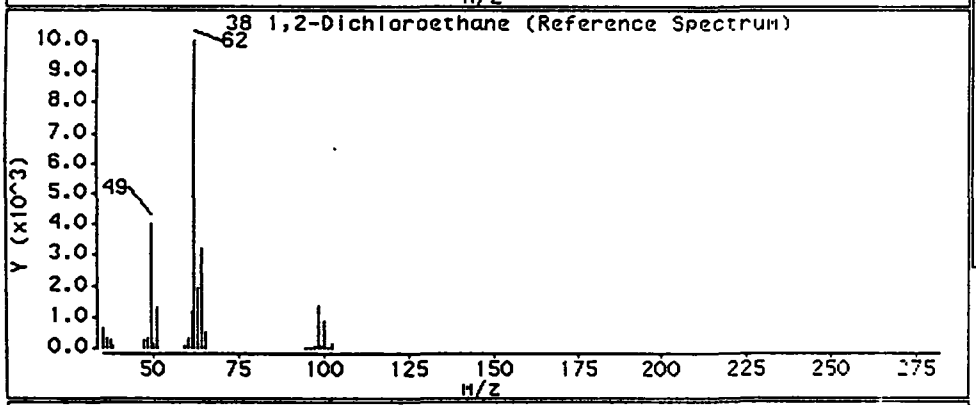
Column phase: RTx-624

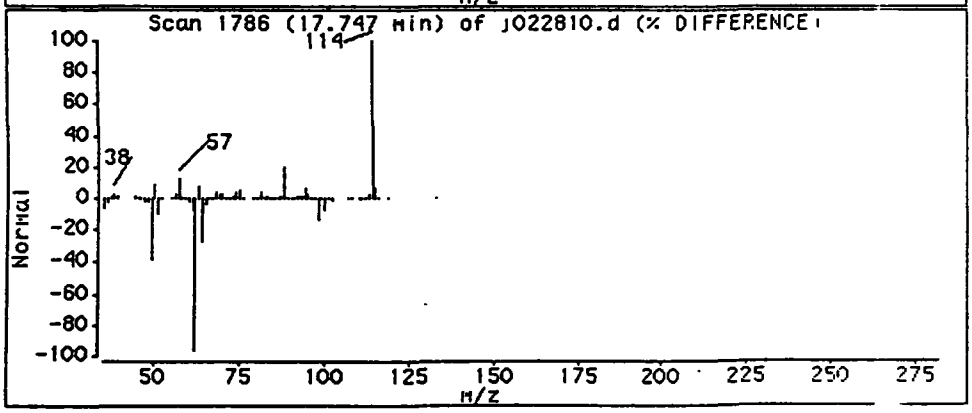
Column diameter: 0.58

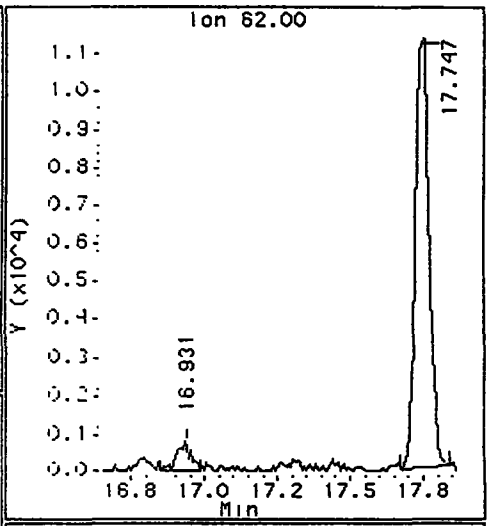
38 1,2-Dichloroethane

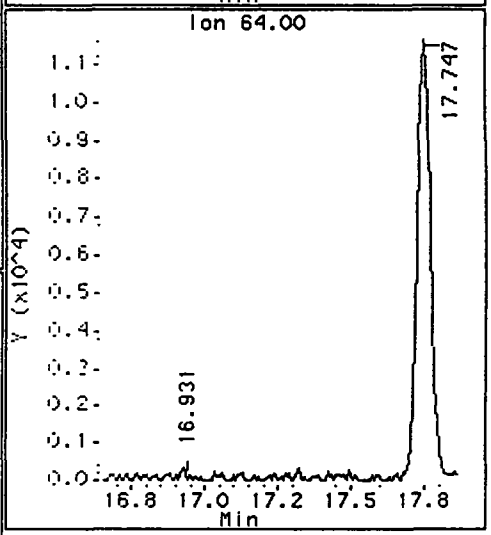












Data File: /chem/msdj.i/j-28feb.b/j022810.d

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Date : 28-FEB-97 17:47

Client ID: 022297D1

Instrument: msdj.i

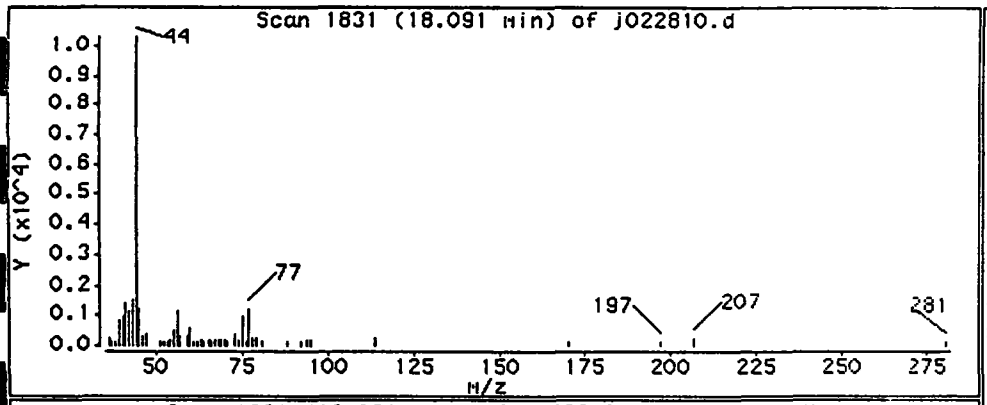
Sample Info: 500mL Can#13668

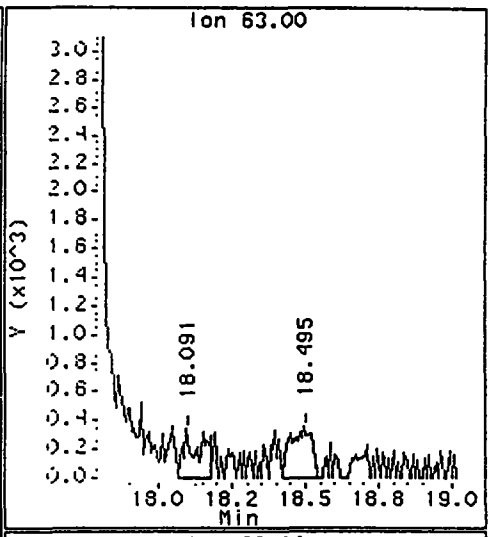
Operator: JMP

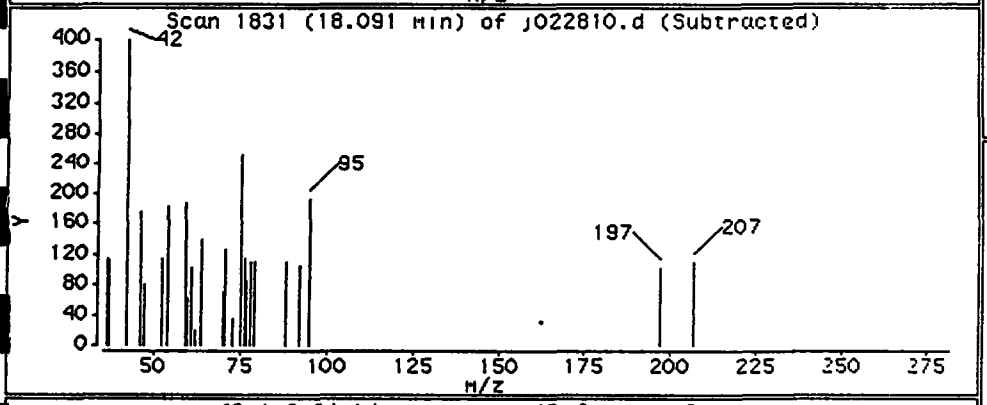
Column phase: RTx-624

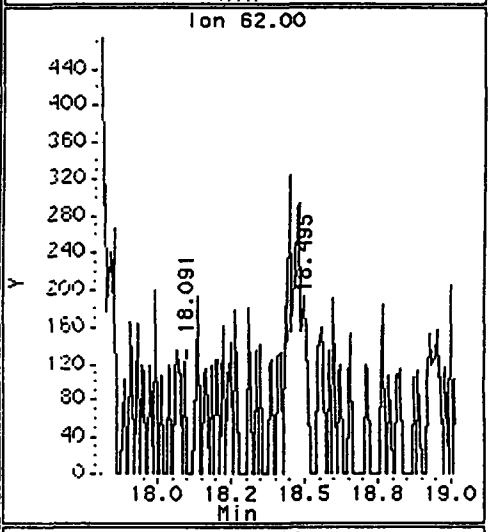
Column diameter: 0.58

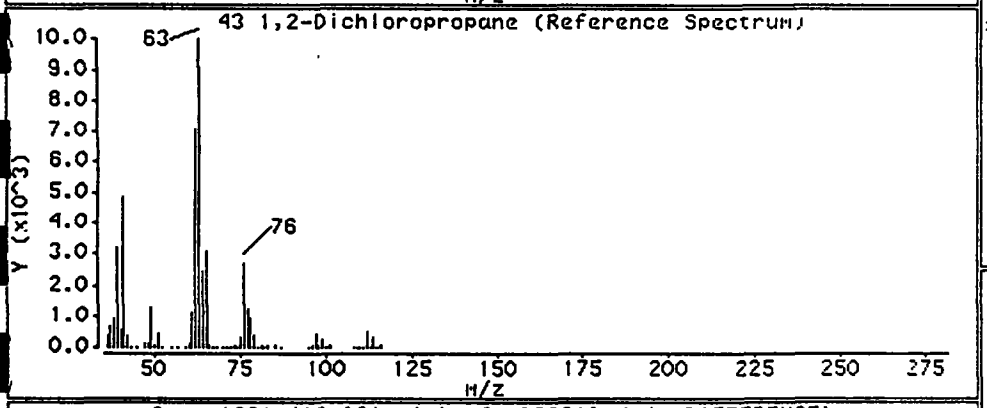
43 1,2-Dichloropropane

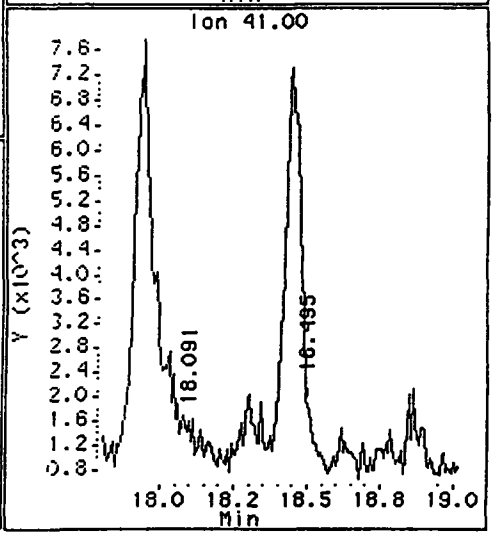


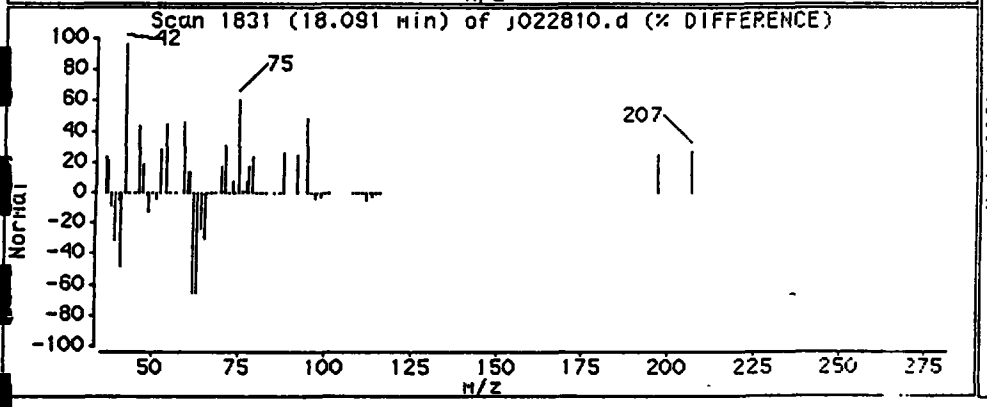












Data File: /chem/msdj.i/j-28feb.b/j022810.d

Date : 28-FEB-97 17:47

Client ID: 022297D1

Instrument: msdj.i

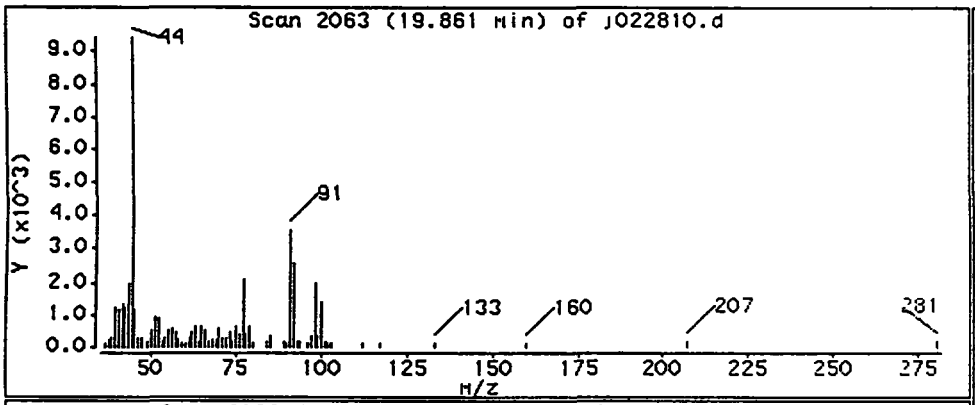
Sample Info: 500mL Can#13668

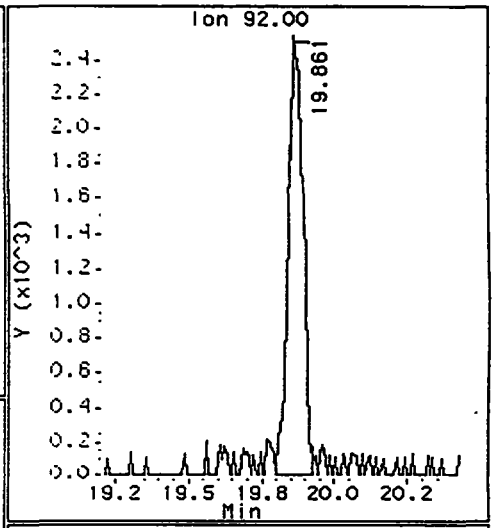
Operator: JMP

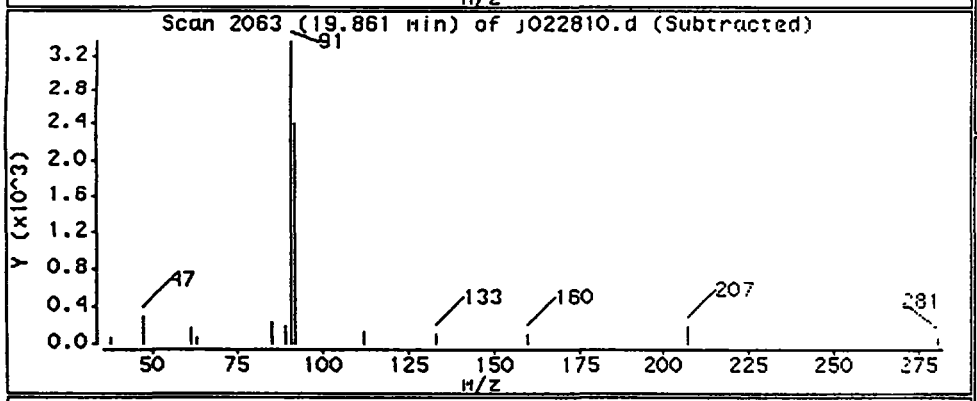
Column phase: RTx-624

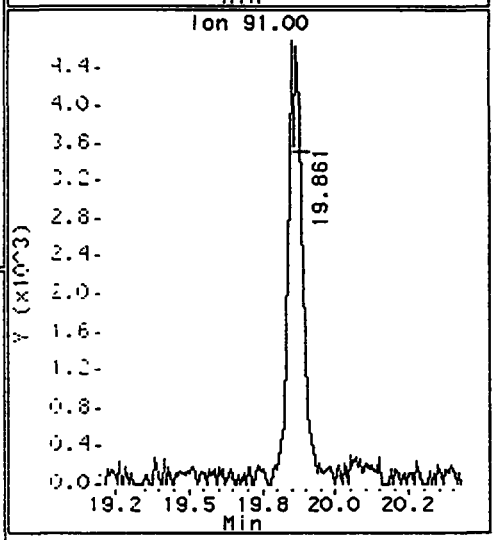
Column diameter: 0.58

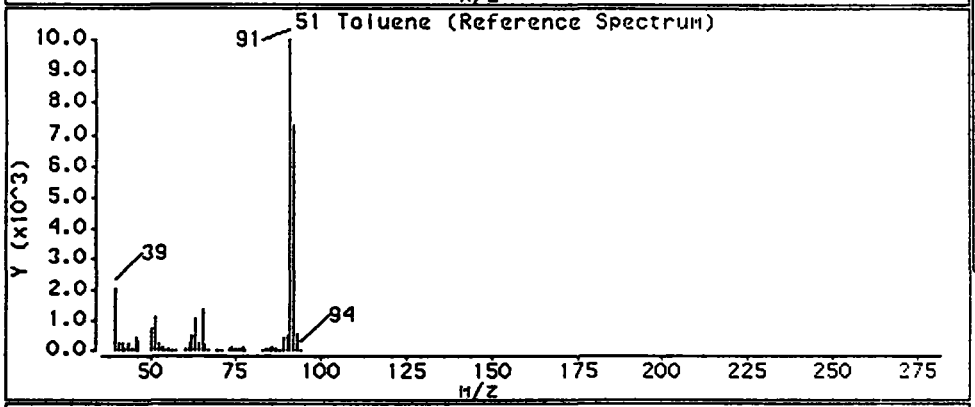
51 Toluene

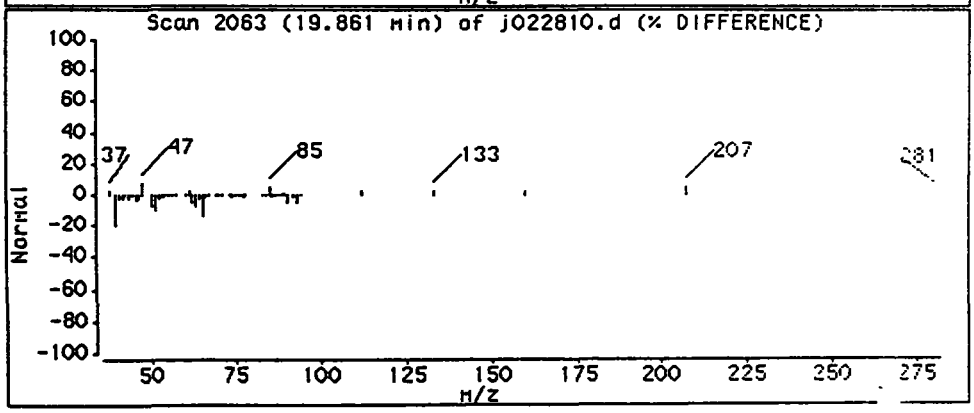








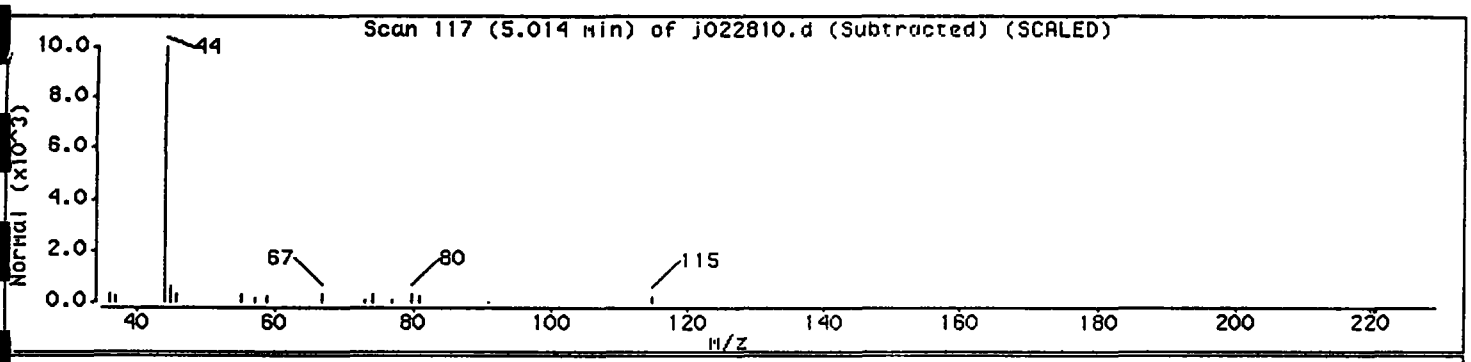




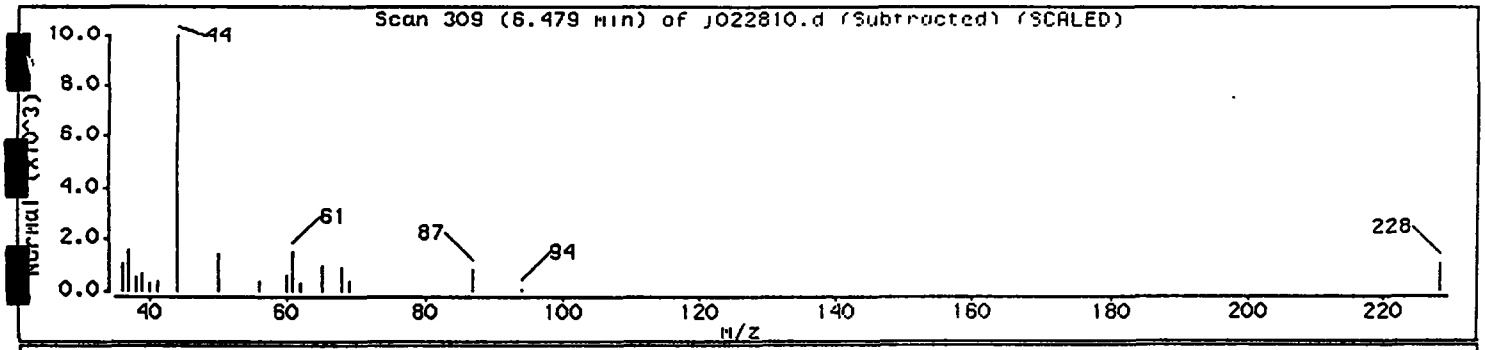
Data File: /chem/msdj.i/j-28feb.b/j022810.d
Date : 28-FEB-97 17:47
Instrument: msdj.i
Client ID: 022297D1
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



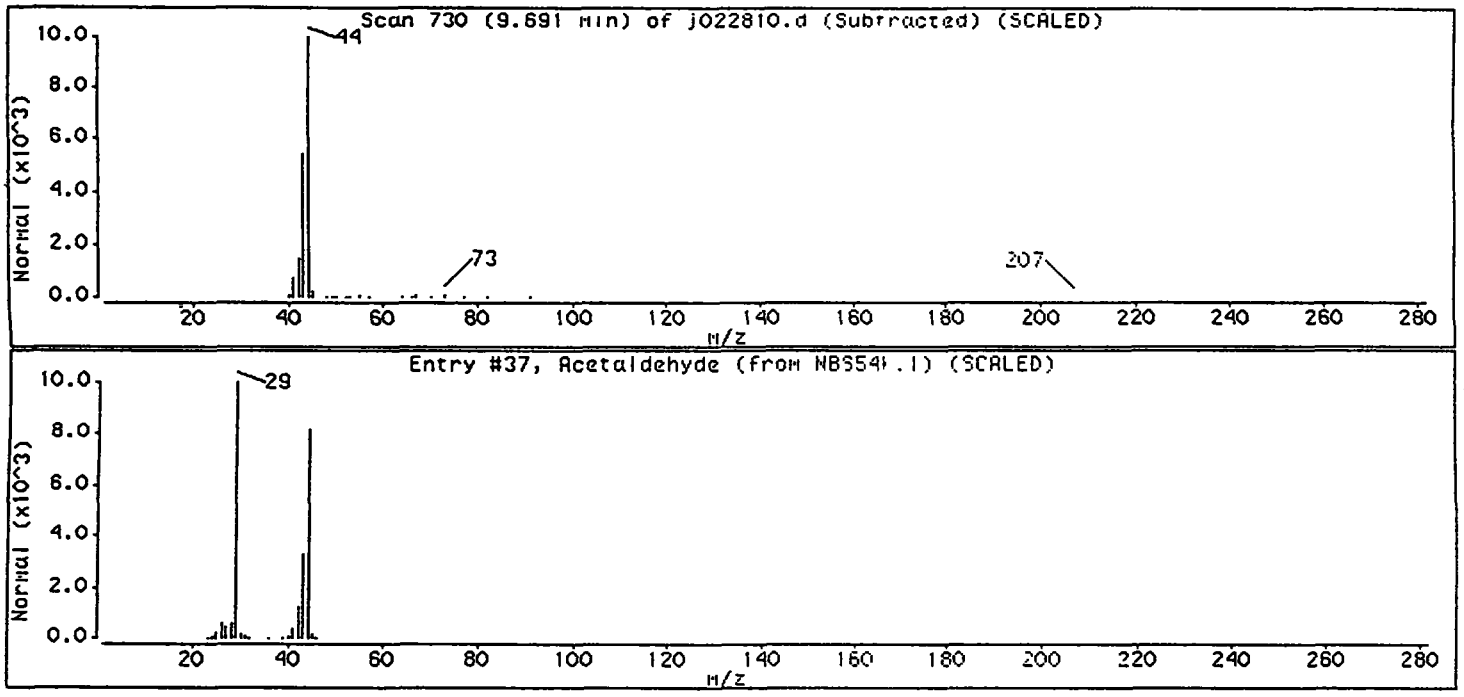
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



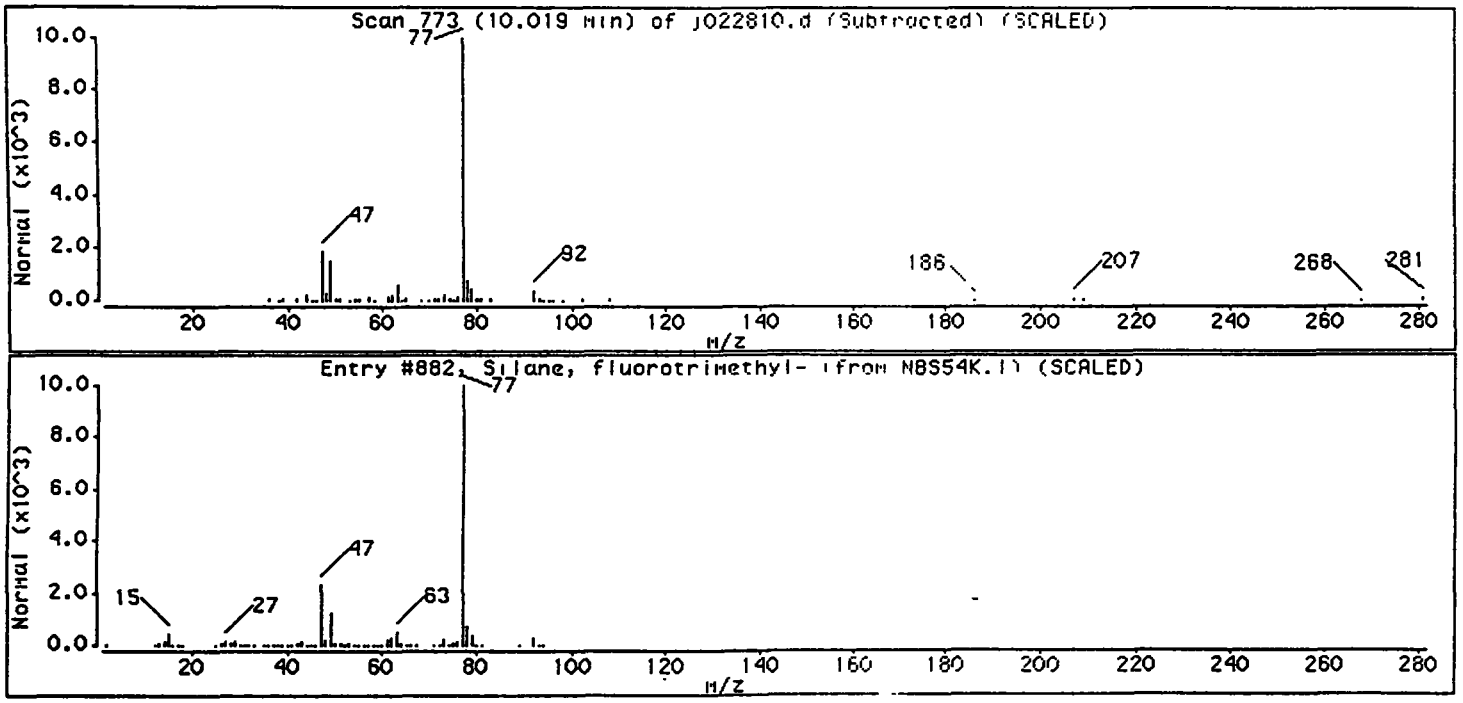
Data File: /chem/msdj.i/j-28feb.b/j022810.d
Date : 28-FEB-97 17:47
Instrument: msdj.i
Client ID: 022297D1
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetaldehyde	75-07-0	NBS54K.I	37	64

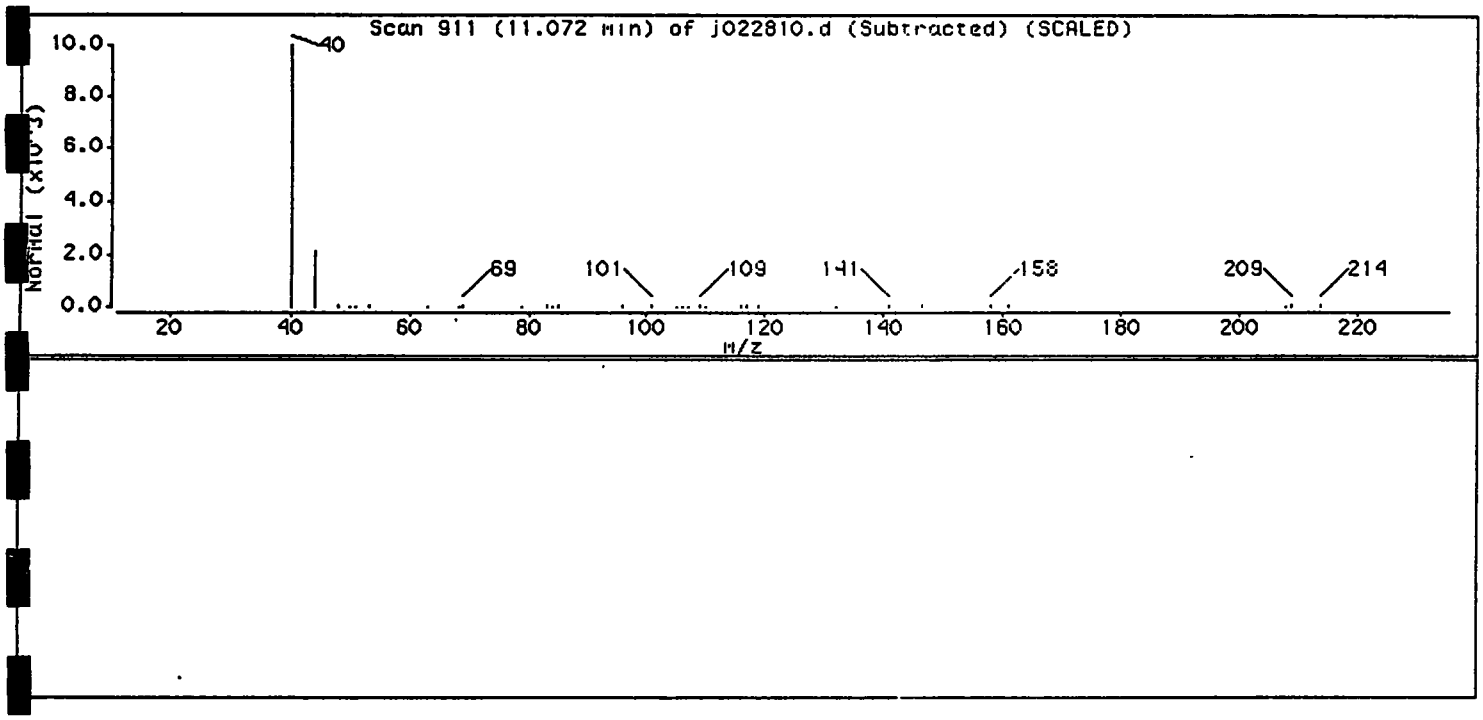


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Silane, fluorotrimethyl-	420-56-4	NBS54K.I	882	87

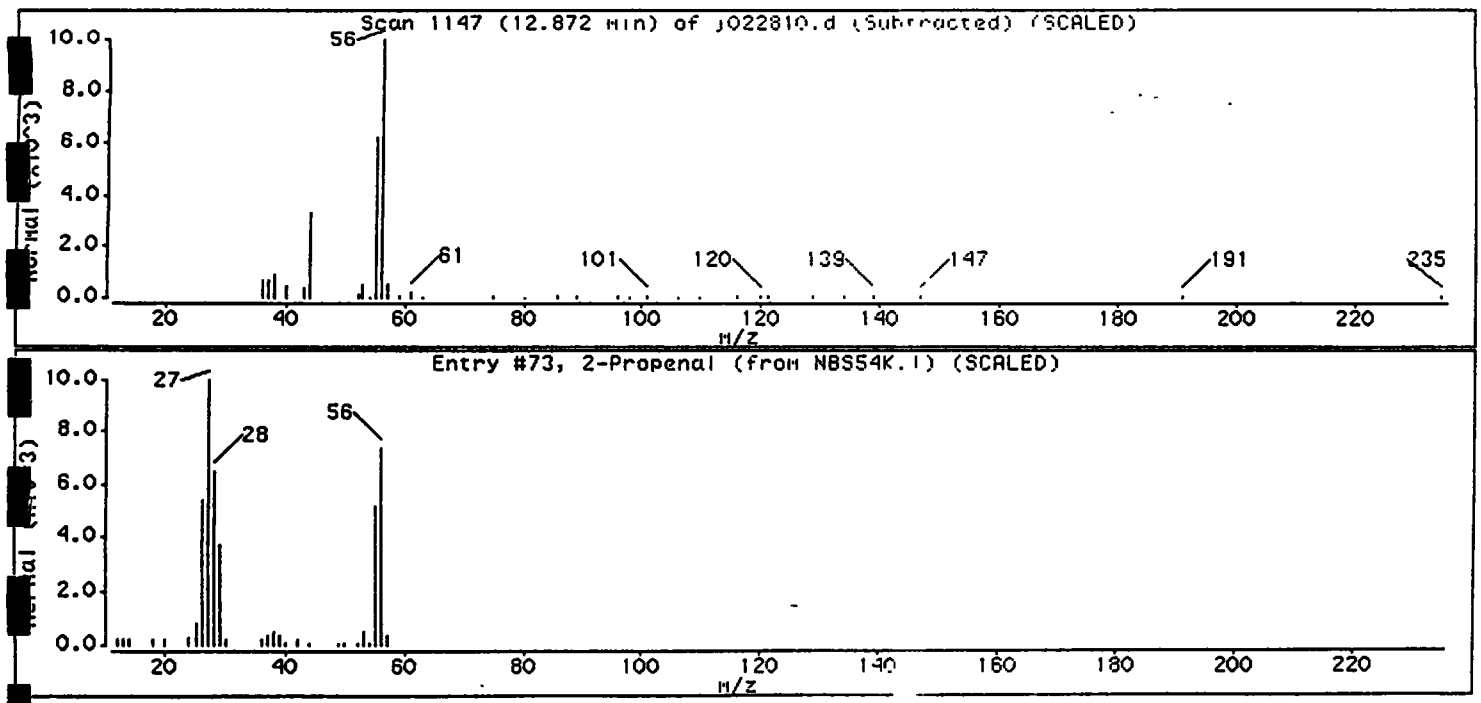


Data File: /chem/msdj.i/j-28feb.b/j022810.d
Date : 28-FEB-97 17:47
Instrument: msdj.i
Client ID: 022297D1
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



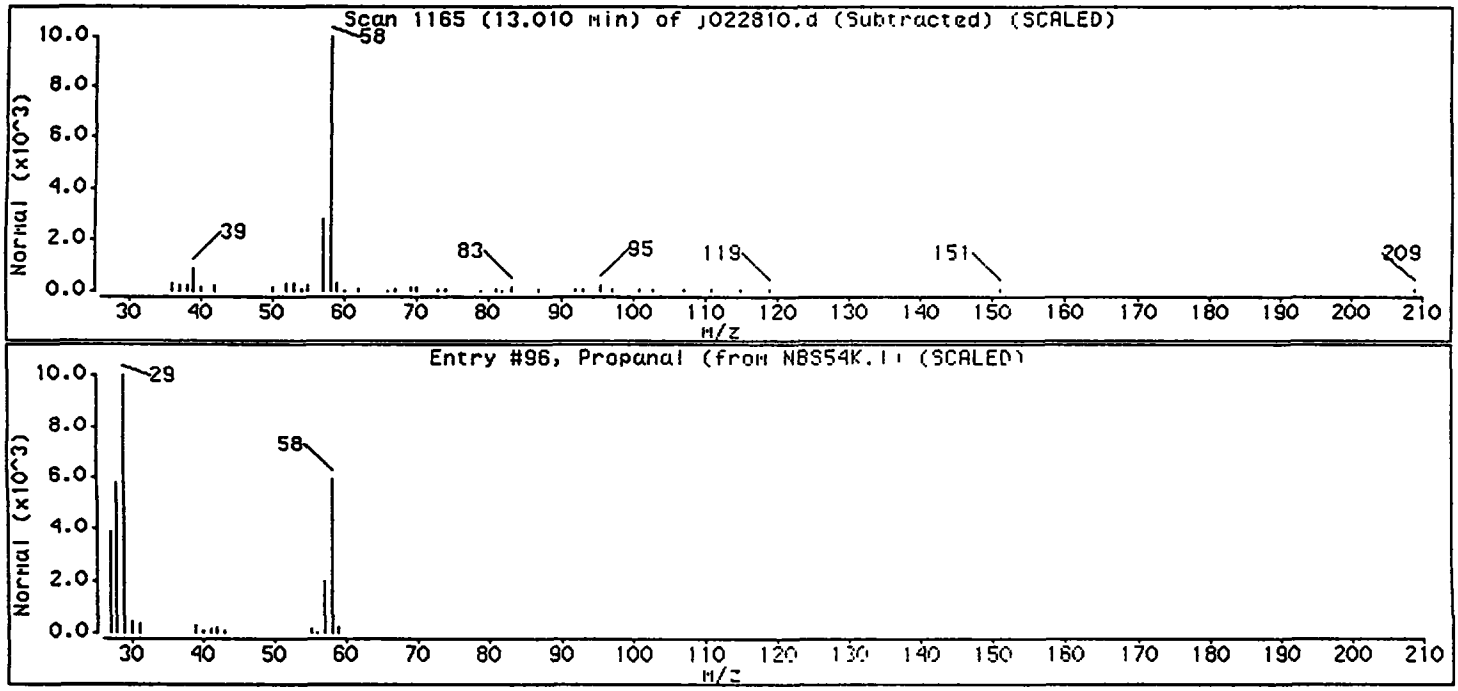
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
2-Propenal	107-02-8	NBS54K.I	73	59



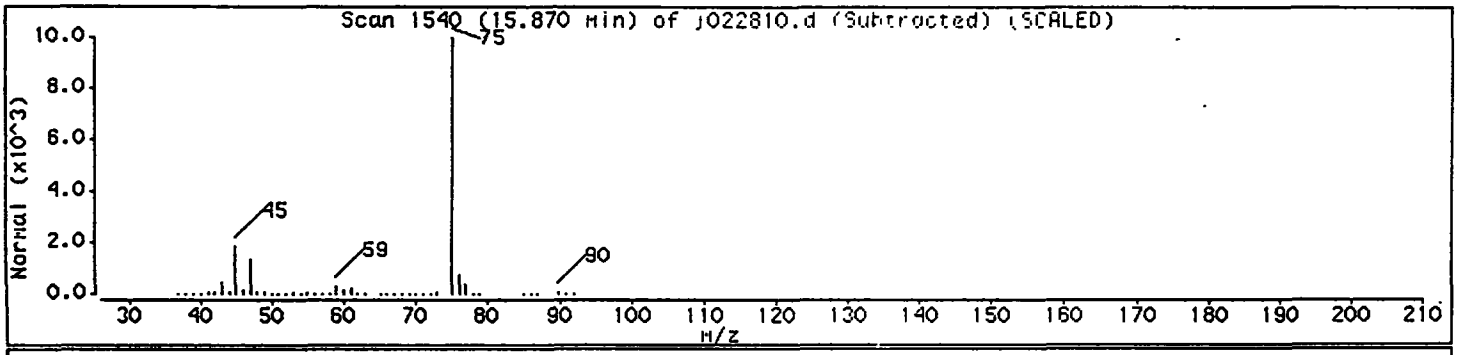
Data File: /chem/msdj.i/j-28feb.b/j022810.d
Date : 28-FEB-97 17:47
Instrument: msdj.i
Client ID: 022297D1
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Propanal	123-38-6	NBS54I.I	96	50

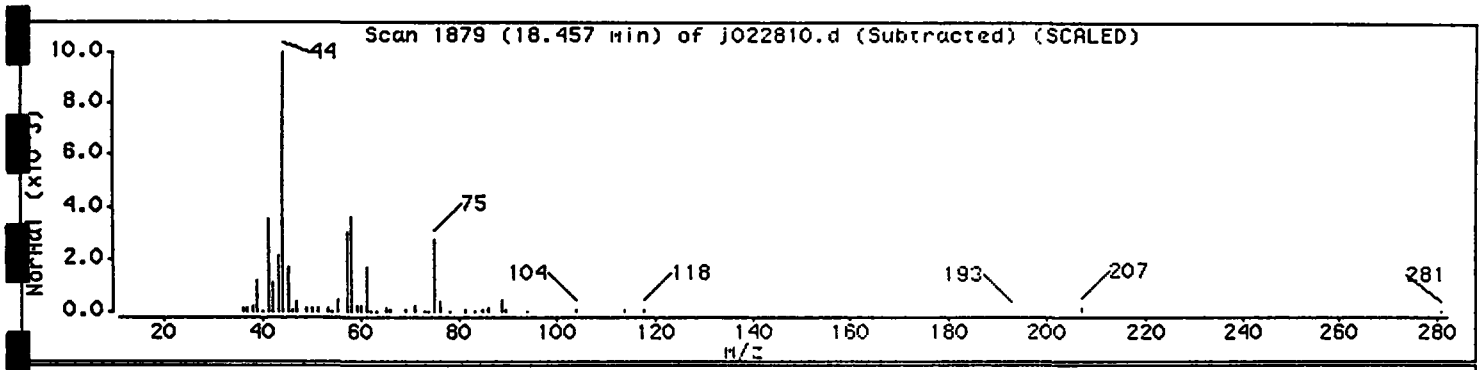


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

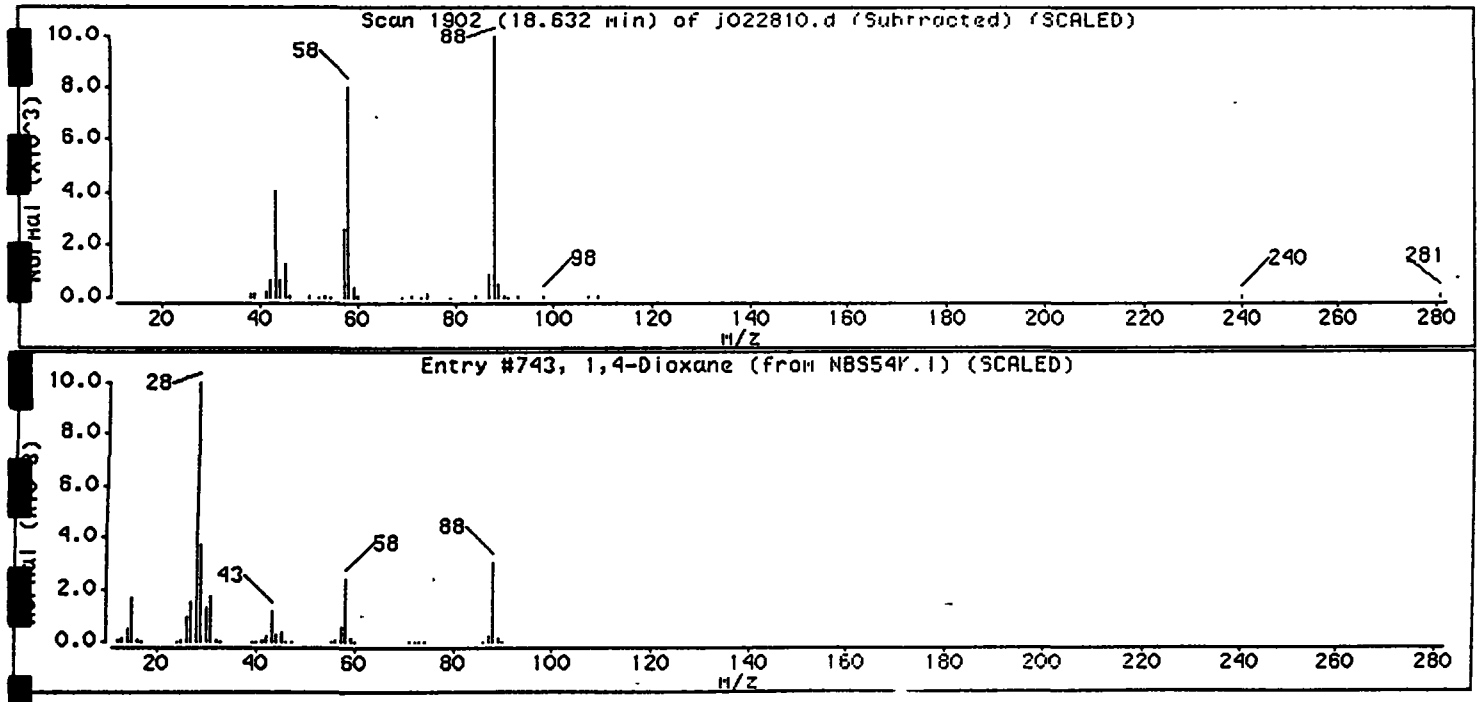


Data File: /chem/msdj.i/j-28feb.b/j022810.d
Date : 28-FEB-97 17:47
Instrument: msdj.i
Client ID: 022297D1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

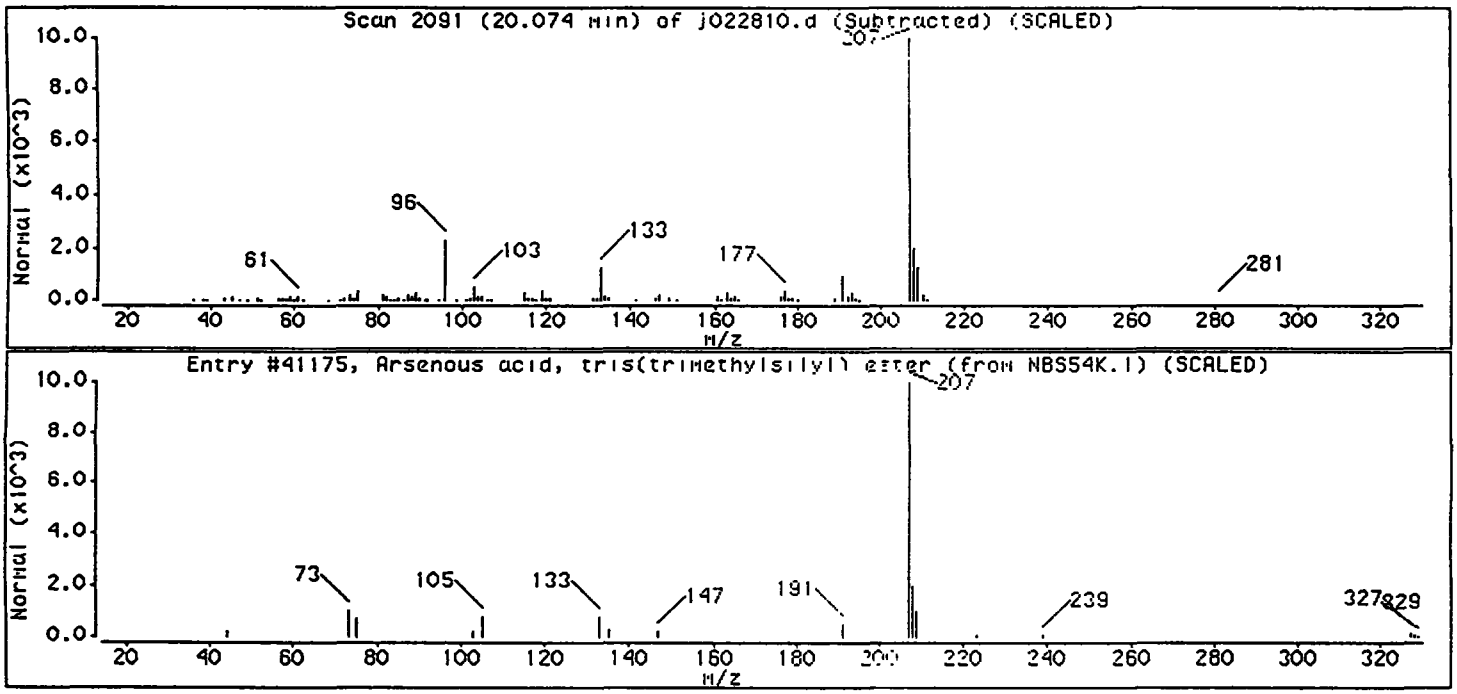


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1,4-Dioxane	123-91-1	NBS54K.I	743	90

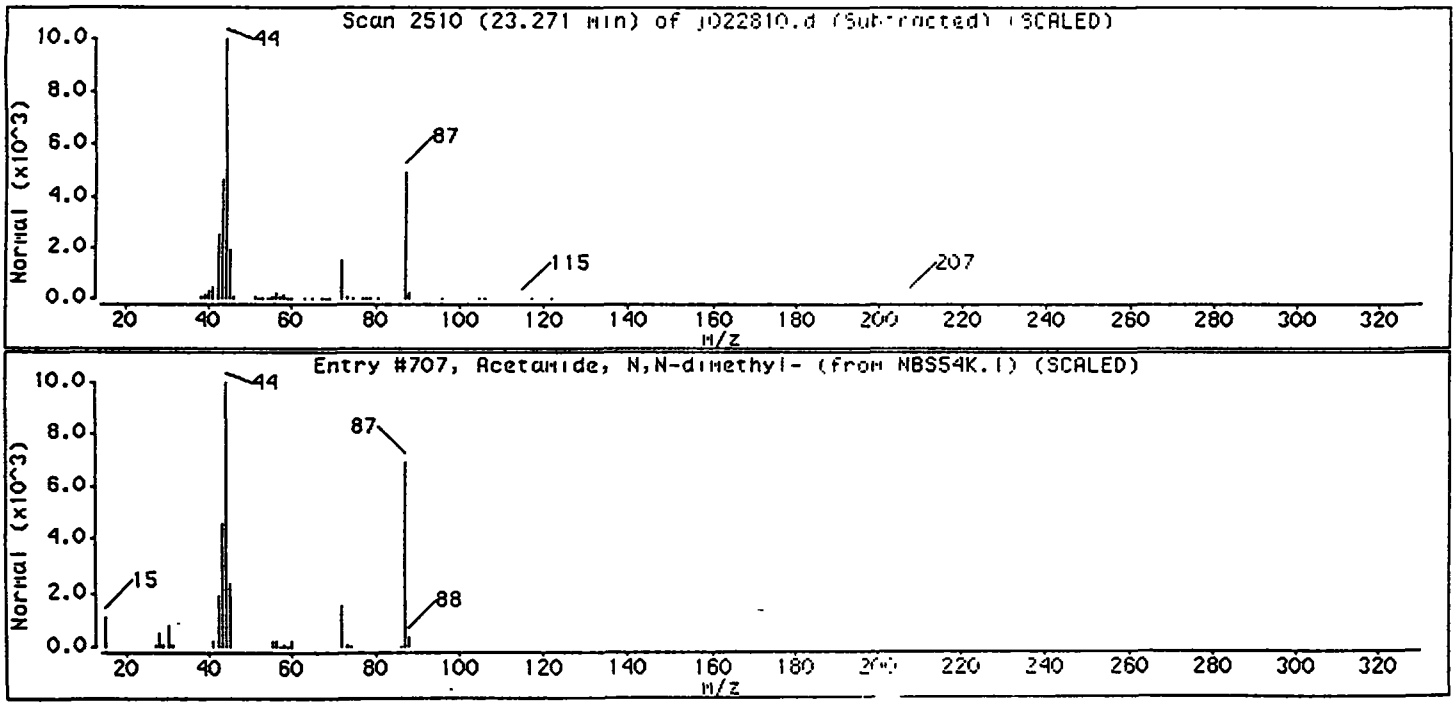


Data File: /chem/msdj.i/j-28feb.b/j022810.d
Date : 28-FEB-97 17:47
Instrument: msdj.i
Client ID: 022297D1
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Arsenous acid, tris(trimethylsilyl) este	55429-29-3	NBS54K.I	41175	59



Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetamide, N,N-dimethyl-	127-19-5	NBS54K.I	707	86



Air Toxics Limited

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-97 10:44
End Cal Date : 09-JAN-1997 12:48
uant Method : ISTD
rigin : Force
Target Version : 3.12
Integrator : HP RTE
ethod file : /chem/msdj.i/j-09jan.b/to140109.m
al Date : 09-Jan-1997 14:23 fayala
Curve Type : Average

alibration File Names:
evel 2: /chem/msdj.i/j-09jan.b/j010905.d
Level 3: /chem/msdj.i/j-09jan.b/j010906.d
evel 4: /chem/msdj.i/j-09jan.b/j010907.d
evel 5: /chem/msdj.i/j-09jan.b/j010908.d
Level 6: /chem/msdj.i/j-09jan.b/j010909.d

Compound	0.5000 Level 2	5 Level 3	10 Level 4	25 Level 5	50 Level 6	RRF	% RSD	
1 Propylene	0.79308	0.68716	0.66328	1.07471	0.97050	0.83775	21.427	
6 Dichlorodifluoromethane/FR 12	2.93315	3.02482	2.95409	3.43582	3.23579	3.11673	6.893	
7 Freon 114	2.22430	2.21634	2.20251	2.33267	2.26964	2.24909	2.360	
8 Chloromethane	1.21097	1.29756	1.22782	1.45358	1.36465	1.31092	7.658	
9 Vinyl Chloride	1.35849	1.38630	1.35452	1.45919	1.39207	1.39012	3.021	
10 1,3-Butadiene	1.00120	1.05160	1.02401	1.13941	1.06458	1.05616	4.983	
11 Bromomethane	1.15310	1.12122	1.10518	1.15298	1.24260	1.15502	4.603	
12 Chloroethane	0.89087	0.81099	0.78733	0.76766	0.75192	0.80175	6.798	
13 Vinyl Bromide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
14 Trichlorofluoromethane/FR 11	2.92572	3.12915	3.11398	3.12528	3.07652	3.07413	2.782	
15 Ethanol	0.34398	0.53100	0.53857	0.31021	0.32468	0.40969	28.035	
16 Acrolein	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
17 1,1-Dichloroethene	1.19957	1.24020	1.24330	0.85049	0.82986	1.07269	19.864	
18 Freon 113	1.61922	1.69085	1.68332	1.70465	1.67246	1.67410	1.961	
20 Acetone	2.04650	2.40857	2.36088	1.27516	1.80660	1.97954	23.424	
19 Carbon Disulfide	3.70910	3.81804	3.80469	3.80710	3.76203	3.78019	1.193	
22 2-Propanol	1.83843	2.54131	2.58455	2.69571	2.65392	2.46278	14.379	
21 Acetonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
23 Methylene Chloride	1.15640	1.16629	1.14944	1.14506	1.11677	1.14679	1.622	
25 Acrylonitrile	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
24 trans-1,2-Dichloroethene	1.23119	1.25799	1.27469	1.30959	1.30209	1.27511	2.523	
26 MTBE	3.12518	3.36269	3.39170	3.43749	3.44219	3.35185	3.907	
27 Hexane	2.24699	2.37345	2.34206	2.36200	2.33037	2.33098	2.139	
28 1,1-Dichloroethane	2.31033	2.38615	2.35981	2.42335	2.34145	2.36422	1.822	
30 Vinyl Acetate	2.90308	3.90195	3.94374	4.11653	4.17636	3.80833	13.625	
29 Chloroprene	0.72169	0.84026	0.81546	0.83720	0.82280	0.80749	6.072	
32 2-Butanone	0.45941	0.56283	0.56051	0.58610	0.58984	0.55174	9.657	

FA 1-9-97

MKL 1-10-97

Air Toxics Limited

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-97 10:44
End Cal Date : 09-JAN-1997 12:48
Quant Method : ISTD
Origin : Force
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/msdj.i/j-09jan.b/to140109.m
Cal Date : 09-Jan-1997 14:23 fayala
Curve Type : Average

Compound	0.5000 Level 2	5 Level 3	10 Level 4	25 Level 5	50 Level 6	RRF	% RSD	
31 cis-1,2-Dichloroethene	1.27313	1.34242	1.36752	1.38466	1.38425	1.35039	3.443	
35 Tetrahydrofuran	1.22139	1.30452	1.33778	1.34771	1.34424	1.31113	4.043	
34 Chloroform	2.37578	2.50641	2.51333	2.53491	2.51475	2.48904	2.579	
36 1,1,1-Trichlorethane	2.27582	2.35007	2.32087	2.36039	2.34502	2.33044	1.450	
37 Cyclohexane	2.16405	2.22698	2.18015	2.18465	2.14685	2.18054	1.372	
38 Carbon Tetrachloride	1.52623	1.86312	1.88808	1.94438	1.99956	1.84427	10.055	
40 Benzene	0.91745	0.94993	0.94534	0.97544	0.99807	0.95724	3.210	
41 1,2-Dichloroethane	0.34857	0.37226	0.37308	0.38384	0.39091	0.37373	4.300	
42 Heptane	0.59400	0.65634	0.65381	0.69350	0.69960	0.65945	6.387	
4 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
2 Bicycloheptadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
44 Trichloroethene	0.33974	0.36019	0.36286	0.37490	0.38702	0.36494	4.841	
45 1,2-Dichloropropane	0.30095	0.33158	0.33155	0.34037	0.34305	0.32950	5.091	
46 1,4-Dioxane	0.14842	0.17420	0.18038	0.19055	0.19912	0.17854	10.837	
47 Bromodichloromethane	0.50922	0.57100	0.58190	0.61115	0.62207	0.57907	7.640	
48 cis-1,3-Dichloropropene	0.13899	0.16138	0.16480	0.17198	0.17593	0.16262	8.856	
3 DMDS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
49 4-Methyl-2-pentanone	0.63157	0.70911	0.72669	0.74509	0.75025	0.71254	6.749	
52 Octane	0.24123	0.25360	0.25893	0.28812	0.31257	0.27089	10.692	
51 Toluene	0.50929	0.56803	0.56702	0.60262	0.63770	0.57693	8.270	
53 trans-1,3-Dichloropropene	0.56209	0.40863	0.38802	0.39774	0.38286	0.42787	17.686	
54 1,1,2-Trichloroethane	0.35843	0.40656	0.38864	0.39902	0.38934	0.38840	4.716	
56 2-Hexanone	0.69137	0.97265	0.95260	0.99183	0.98288	0.91827	13.904	
55 Tetrachloroethene	0.39373	0.44280	0.43039	0.45117	0.47139	0.43790	6.589	
57 Dibromochloromethane	0.44537	0.54450	0.53521	0.56215	0.56464	0.53037	9.252	
58 1,2-Dibromoethane	0.46390	0.53634	0.51074	0.52934	0.52379	0.51282	5.638	
60 Chlorobenzene	0.79078	0.84965	0.83491	0.89292	0.90073	0.85380	5.264	
61 Ethyl Benzene	0.45419	0.53001	0.51086	0.57535	0.58796	0.53168	10.092	
62 m,p-Xylene	0.42424	0.50760	0.48990	0.56339	0.60391	0.51781	13.355	
63 o-Xylene	0.26877	0.32072	0.30830	0.35113	0.35209	0.32020	10.774	
64 Styrene	0.49831	0.66665	0.66425	0.75757	0.76958	0.67127	16.165	
65 Bromoform	0.19251	0.26325	0.25741	0.27892	0.28956	0.25633	14.774	
67 1,1,2,2-Tetrachloroethane	0.74745	0.84858	0.77533	0.79701	0.77437	0.78855	4.804	
68 4-Ethyltoluene(1)	0.89314	1.03981	1.05639	1.22314	1.17410	1.07732	11.959	
(2)	0.23154	0.26187	0.26843	0.32214	0.30122	0.27704	12.753	

Air Toxics Limited

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-97 10:44
End Cal Date : 09-JAN-1997 12:48
Quant Method : ISTD
Origin : Force
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/msdj.i/j-09jan.b/to140109.m
Cal Date : 09-Jan-1997 14:23 fayala
Curve Type : Average

	Compound	0.5000 Level 2	5 Level 3	10 Level 4	25 Level 5	50 Level 6	RRF	% RSD	
69	1,3,5-Trimethylbenzene(1)	0.37581	0.52191	0.51120	0.60695	0.56405	0.51598	16.866	
	(2)	0.18938	0.24078	0.23927	0.26082	0.26040	0.23813	12.235	
70	alpha-Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
71	1,2,4-Trimethylbenzene	0.32796	0.41617	0.41030	0.48211	0.46330	0.41997	14.244	
72	1,3-Dichlorobenzene	0.43526	0.52652	0.50311	0.59652	0.59302	0.53089	12.672	
73	1,4-Dichlorobenzene	0.41464	0.51777	0.49948	0.57981	0.57694	0.51773	13.072	
74	Benzyl Chloride	0.70147	0.98722	0.97823	1.18188	1.14885	0.99953	19.048	
75	1,2-Dichlorobenzene	0.39804	0.47189	0.45709	0.53241	0.51562	0.47501	11.139	
5	1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
76	1,2,4-Trichlorobenzene	0.16627	0.18587	0.16992	0.23615	0.24548	0.20074	18.664	
77	Hexachlorobutadiene	0.19126	0.20969	0.19172	0.23300	0.23201	0.21154	9.709	
39	Octafluorotoluene	2.20966	2.20467	2.22502	2.41605	2.52799	2.31668	6.363	
$ 50	Toluene-d8	0.88011	0.89757	0.89390	0.92470	0.92760	0.90477	2.276	
$ 66	Bromofluorobenzene	0.78490	0.79243	0.76473	0.77199	0.75735	0.77428	1.855	

Data File: /chem/msdj.i/j-09jan.b/j010905.d
Report Date: 09-Jan-1997 14:21

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010905.d
Lab Smp Id: VSTD0005 Client Smp ID: VSTD0005
Inj Date : 09-JAN-1997 10:04
Operator : FA Inst ID: msdj.i
Smp Info : 2.5ml #296-25 100ppbv (0.5ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:21 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane					CAS #: 74-97-5			
16.689	16.689 (1.000)	130	193877	5.0			100.00	9624(Q)
16.689	16.689 (0.000)	128	43688			27.42- 127.42	22.53	
16.689	16.689 (0.000)	49	99136			125.67- 225.67	51.13	
* 43 1,4-Difluorobenzene					CAS #: 540-36-3			
18.032	18.032 (1.000)	114	850139	5.0			100.00	9792
18.032	18.032 (0.000)	88	47264			0.00- 67.86	5.56	
* 59 Chlorobenzene-d5					CAS #: 3114-55-4			
22.167	22.167 (1.000)	117	656394	5.0			100.00	7253
22.167	22.167 (0.000)	82	103704			10.92- 110.92	15.80	
$ 39 Octafluorotoluene					CAS #: 434-64-0			
17.200	17.200 (1.031)	217	428402	5.0	4.8		100.00	9710
17.200	17.200 (0.000)	186	89248			17.99- 117.99	20.83	
$ 50 Toluene-d8					CAS #: 2037-26-5			
20.069	20.069 (1.113)	98	748213	5.0	4.9		100.00	9787
20.069	20.069 (0.000)	70	25808			0.00- 61.99	3.45	
20.069	20.069 (0.000)	100	145664			17.70- 117.70	19.47	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
S 66 Bromofluorobenzene					CAS #: 460-00-4			
24.036	24.036 (1.084)	95	515201	5.0	5.1		100.00	9673
24.036	24.036 (0.000)	174	71136			9.51- 109.51	13.81	
24.036	24.036 (0.000)	176	70920			9.33- 109.33	13.77	
1 Propylene					CAS #: 115-07-1			
4.719	4.719 (0.283)	41	15376	0.50	0.47		100.00	7464(M)
4.680	4.680 (0.280)	42	293			0.00- 69.90	1.91	
4.680	4.680 (0.280)	39	566			0.00- 88.45	3.68	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
5.276	5.276 (0.316)	85	56867	0.50	0.47		100.00	8543(M)
5.276	5.276 (0.316)	87	1280			0.00- 81.43	2.25	
7 Freon 114					CAS #: 76-14-2			
7.015	7.015 (0.420)	135	43124	0.50	0.49		100.00	9511
7.015	7.015 (0.000)	137	1213			0.00- 77.56	2.81	
8 Chloromethane					CAS #: 74-87-3			
7.129	7.129 (0.427)	50	23478	0.50	0.46		100.00	8802(Q)
7.129	7.129 (0.000)	52	891			8.12- 108.12	3.80	
9 Vinyl Chloride					CAS #: 75-01-4			
8.236	8.236 (0.493)	62	26338	0.50	0.49		100.00	8364
8.236	8.236 (0.000)	64	745			0.00- 74.69	2.83	
10 1,3-Butadiene					CAS #: 106-99-0			
8.602	8.602 (0.515)	54	19411	0.50	0.47		100.00	9055(Q)
8.602	8.602 (0.000)	39	2676			54.41- 154.41	13.79	
11 Bromomethane					CAS #: 74-83-9			
10.151	10.151 (0.608)	94	22356	0.50	0.50		100.00	9050(Q)
10.151	10.151 (0.000)	96	2707			30.09- 130.09	12.11	
12 Chloroethane					CAS #: 75-00-3			
10.753	10.753 (0.644)	64	17272	0.50	0.56		100.00	8945
10.753	10.753 (0.000)	66	1021			0.00- 82.41	5.91	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
11.730	11.730 (0.703)	101	56723	0.50	0.48		100.00	9577
11.730	11.730 (0.000)	103	8089			13.40- 113.40	14.26	
15 Ethanol					CAS #: 64-17-5			
12.943	12.943 (0.776)	45	6669	0.50	0.42		100.00	(M)
12.897	12.897 (0.773)	46	664			0.00- 59.96	9.96	
12.714	12.714 (0.762)	43	507			0.00- 57.60	7.60	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.149	13.149 (0.788)	96	23257	0.50	0.56		100.00	9392(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.149	13.149 (0.000)	61	10406			115.70- 215.70	44.74	
13.149	13.149 (0.000)	98	4000			13.69- 113.69	17.20	
18 Freon 113					CAS #: 76-13-1			
13.225	13.225 (0.792)	151	31393	0.50	0.48		100.00	9203(Q)
13.225	13.225 (0.000)	153	4874			16.69- 116.69	15.53	
13.225	13.225 (0.000)	101	12289			118.16- 218.16	39.15	
19 Carbon Disulfide					CAS #: 75-15-0			
13.530	13.530 (0.811)	76	71911	0.50	0.49		100.00	8000
20 Acetone					CAS #: 67-64-1			
13.446	13.446 (0.806)	43	39677	0.50	0.52		100.00	
13.446	13.446 (0.806)	58	13203			0.00- 83.28	33.28	
22 2-Propanol					CAS #: 67-63-0			
13.889	13.889 (0.832)	45	35643	0.50	0.37		100.00	7225
13.889	13.889 (0.000)	43	1230			0.00- 68.22	3.45	
13.889	13.889 (0.000)	59	329			0.00- 54.87	0.92	
23 Methylene Chloride					CAS #: 75-09-2			
14.240	14.240 (0.853)	84	22420	0.50	0.50		100.00	9691(Q)
14.240	14.240 (0.000)	49	8120			92.41- 192.41	36.22	
14.240	14.240 (0.000)	51	2590			0.00- 95.42	11.55	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.736	14.736 (0.883)	96	23870	0.50	0.48		100.00	9422(Q)
14.736	14.736 (0.000)	61	8906			75.67- 175.67	37.31	
14.736	14.736 (0.000)	98	3813			3.80- 103.80	15.97	
26 MTBE					CAS #: 1634-04-4			
14.728	14.728 (0.882)	73	60590	0.50	0.47		100.00	6412
14.728	14.728 (0.000)	57	3341			0.00- 71.27	5.51	
14.728	14.728 (0.000)	41	4569			0.00- 79.08	7.54	
27 Hexane					CAS #: 110-54-3			
15.163	15.163 (0.909)	57	43564	0.50	0.48		100.00	7239(aQ)
15.163	15.163 (0.000)	43	9334			22.17- 122.17	21.43	
15.163	15.163 (0.000)	56	7065			4.62- 104.62	16.22	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.430	15.430 (0.925)	63	44792	0.50	0.49		100.00	9576
15.430	15.430 (0.000)	65	4252			0.00- 82.86	9.49	
29 Chloroprene					CAS #: 126-99-8			
15.560	15.560 (0.932)	53	13992	0.50	0.45		100.00	7903
15.560	15.560 (0.000)	88	1618			0.00- 92.08	11.56	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.560	15.560 (0.000)	50	1070			0.00- 77.83	7.65	
30 Vinyl Acetate					CAS #: 108-05-4			
15.514	15.514 (0.930)	43	56284	0.50	0.38		100.00	5917(a)
15.514	15.514 (0.000)	86	992			0.00- 57.95	1.76	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.338	16.338 (0.979)	96	24683	0.50	0.47		100.00	9101(Q)
16.338	16.338 (0.000)	61	8551			70.56- 170.56	34.64	
16.338	16.338 (0.000)	98	4091			7.68- 107.68	16.57	
32 2-Butanone					CAS #: 78-93-3			
16.323	16.323 (0.978)	72	8907	0.50	0.42		100.00	7766(Q)
16.323	16.323 (0.000)	43	9821			345.05- 445.05	110.26	
16.323	16.323 (0.000)	57	618			0.00- 74.86	6.94	
34 Chloroform					CAS #: 67-66-3			
16.773	16.773 (1.005)	83	46061	0.50	0.48		100.00	8125
16.773	16.773 (0.000)	85	8585			10.95- 110.95	18.64	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.765	16.765 (1.005)	42	23680	0.50	0.46		100.00	7333
16.765	16.765 (0.000)	71	1794			0.00- 80.76	7.58	
16.765	16.765 (0.000)	72	2198			0.00- 87.69	9.28	
36 1,1,1-Trichloroethane					CAS #: 71-55-6			
17.055	17.055 (1.022)	97	44123	0.50	0.49		100.00	9537
17.055	17.055 (0.000)	99	8065			13.75- 113.75	18.28	
37 Cyclohexane					CAS #: 110-82-7			
17.139	17.139 (1.027)	56	41956	0.50	0.50		100.00	8184(Q)
17.139	17.139 (0.000)	84	8572			23.41- 123.41	20.43	
17.139	17.139 (0.000)	41	7796			16.76- 116.76	18.58	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.307	17.307 (1.037)	119	29590	0.50	0.41		100.00	6991
17.307	17.307 (0.000)	117	0			0.00- 50.00	0.00	
40 Benzene					CAS #: 71-43-2			
17.589	17.589 (0.975)	78	77996	0.50	0.48		100.00	9700
17.589	17.589 (0.000)	77	5151			0.00- 73.23	6.60	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.589	17.589 (0.975)	62	29633	0.50	0.47		100.00	8187
17.589	17.589 (0.000)	64	2769			0.00- 82.52	9.34	
42 Heptane					CAS #: 142-82-5			
17.810	17.810 (0.988)	43	50498	0.50	0.45		100.00	7604

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.810	17.810 (0.000)	57	8398			2.54- 102.54	16.63	
17.810	17.810 (0.000)	71	7675			0.00- 98.02	15.20	
44 Trichloroethene					CAS #: 79-01-6			
18.428	18.428 (1.022)	95	28883	0.50	0.46		100.00	7831(Q)
18.428	18.428 (0.000)	130	6035			24.68- 124.68	20.89	
18.428	18.428 (0.000)	97	4905			10.70- 110.70	16.98	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.741	18.741 (1.039)	63	25585	0.50	0.46		100.00	9515(Q)
18.741	18.741 (0.000)	62	4967			20.77- 120.77	19.41	
18.741	18.741 (0.000)	41	4996			21.18- 121.18	19.53	
46 1,4-Dioxane					CAS #: 123-91-1			
18.901	18.901 (1.048)	88	12618	0.50	0.42		100.00	8935
18.901	18.901 (0.000)	58	2294			15.56- 115.56	18.18	
18.901	18.901 (0.000)	57	975			0.00- 77.87	7.73	
47 Bromodichloromethane					CAS #: 75-27-4			
19.092	19.092 (1.059)	83	43291	0.50	0.44		100.00	9237
19.092	19.092 (0.000)	85	7151			9.04- 109.04	16.52	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.687	19.687 (1.092)	75	17015	0.72	0.62		100.00	9191
19.687	19.687 (0.000)	77	1764			0.00- 91.71	10.37	
19.687	19.687 (0.000)	39	2217			2.42- 102.42	13.03	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.802	19.802 (1.098)	43	53692	0.50	0.44		100.00	9481
19.802	19.802 (0.000)	58	5680			0.00- 87.30	10.58	
19.802	19.802 (0.000)	85	1907			0.00- 62.52	3.55	
51 Toluene					CAS #: 108-88-3			
20.168	20.168 (1.118)	92	43297	0.50	0.44		100.00	8444(Q)
20.168	20.168 (0.000)	91	22089			132.99- 232.99	51.02	
52 Octane					CAS #: 111-65-9			
20.152	20.152 (1.118)	57	20508	0.50	0.44		100.00	7415(Q)
20.152	20.152 (0.000)	85	6379			45.68- 145.68	31.10	
20.152	20.152 (0.000)	43	15346			180.18- 280.18	74.83	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.381	20.381 (0.919)	75	7379	0.10	0.13		100.00	4065
20.381	20.381 (0.000)	77	171			0.00- 60.23	2.32	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.687	20.687 (0.933)	97	23527	0.50	0.46		100.00	9685(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.687	20.687 (0.000)	99	3870			8.34- 108.34	16.45	
20.687	20.687 (0.000)	83	5623			34.77- 134.77	23.90	
55 Tetrachloroethene					CAS #: 127-18-4			
20.954	20.954 (0.945)	166	25844	0.50	0.45		100.00	8606(Q)
20.954	20.954 (0.000)	129	5624			25.01- 125.01	21.76	
20.954	20.954 (0.000)	131	5443			22.59- 122.59	21.06	
56 2-Hexanone					CAS #: 591-78-6			
20.923	20.923 (0.944)	43	45381	0.50	0.38		100.00	8349
20.923	20.923 (0.000)	58	6457			5.10- 105.10	14.23	
20.923	20.923 (0.000)	100	1108			0.00- 59.45	2.44	
57 Dibromochloromethane					CAS #: 124-48-1			
21.297	21.297 (0.961)	129	29234	0.50	0.42		100.00	8135
21.297	21.297 (0.000)	208	191			0.00- 52.39	0.65	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.518	21.518 (0.971)	107	30450	0.50	0.45		100.00	9568(Q)
21.518	21.518 (0.000)	109	6565			34.81- 134.81	21.56	
60 Chlorobenzene					CAS #: 108-90-7			
22.220	22.220 (1.002)	112	51906	0.50	0.46		100.00	8814
22.220	22.220 (0.000)	114	4471			0.00- 82.51	8.61	
22.220	22.220 (0.000)	77	7504			4.56- 104.56	14.46	
61 Ethyl Benzene					CAS #: 100-41-4			
22.296	22.296 (1.006)	106	29813	0.50	0.43		100.00	
22.296	22.296 (1.006)	91	103451			297.00- 397.00	347.00	
62 m,p-Xylene					CAS #: 108-38-3			
22.457	22.457 (1.013)	106	55694	1.0	0.82		100.00	
22.457	22.457 (1.013)	91	120203			165.83- 265.83	215.83	
63 o-Xylene					CAS #: 95-47-6			
23.136	23.136 (1.044)	106	17642	0.50	0.42		100.00	9410(Q)
23.136	23.136 (0.000)	91	8283			134.56- 234.56	46.95	
64 Styrene					CAS #: 100-42-5			
23.143	23.143 (1.044)	104	32709	0.50	0.37		100.00	9444
23.143	23.143 (0.000)	78	3633			0.00- 95.19	11.11	
65 Bromoform					CAS #: 75-25-2			
23.563	23.563 (1.063)	171	12636	0.50	0.38		100.00	8554(Q)
23.563	23.563 (0.000)	173	5870			146.98- 246.98	46.45	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.181	24.181 (1.091)	83	49062	0.50	0.47		100.00	8028

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.181	24.181 (0.000)	85	6781			12.99- 112.99	13.82	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.585	24.585 (1.109)	105	58625	0.50	0.41		100.00	9412(M)
24.593	24.593 (1.109)	120	15198	0.50	0.42	0.00- 77.10	25.92	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.684	24.684 (1.114)	105	24668	0.50	0.36		100.00	7605(QMH)
24.684	24.684 (1.114)	120	12431	0.50	0.40	106.21- 206.21	50.39	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.440	25.440 (1.148)	105	21527	0.50	0.39		100.00	8355
25.440	25.440 (0.000)	120	2059			0.00- 91.22	9.56	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.172	26.172 (1.181)	146	28570	0.50	0.41		100.00	
26.164	26.164 (1.180)	148	18554			14.94- 114.94	64.94	
26.172	26.172 (1.181)	111	14543			0.90- 100.90	50.90	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.332	26.332 (1.188)	146	27217	0.50	0.40		100.00	
26.355	26.355 (1.189)	148	16966			12.34- 112.34	62.34	
26.340	26.340 (1.188)	111	13202			0.00- 98.51	48.51	
74 Benzyl Chloride					CAS #: 100-44-7			
26.584	26.584 (1.199)	91	46044	0.50	0.35		100.00	8814
26.584	26.584 (0.000)	126	1452			0.00- 66.13	3.15	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.225	27.225 (1.228)	146	26127	0.50	0.42		100.00	9213
27.225	27.225 (0.000)	148	3024			10.67- 110.67	11.57	
27.225	27.225 (0.000)	111	1788			0.00- 85.87	6.84	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.619	31.619 (1.426)	180	10914	0.50	0.41		100.00	9082(Q)
31.619	31.619 (0.000)	182	1603			32.25- 132.25	14.69	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.031	32.031 (1.445)	225	12554	0.50	0.45		100.00	8791
32.031	32.031 (0.000)	223	1306			8.04- 108.04	10.40	

QC Flag Legend

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

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010905.d
Report Date: 09-Jan-1997 12:09

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010905.d
Lab Smp Id: VSTD0005
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD0005
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	193877	0.92
43 1,4-Difluorobenzene	832855	499713	1165997	850139	2.08
59 Chlorobenzene-d5	625059	375035	875083	656394	5.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.69	-0.02
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.03	-0.01
59 Chlorobenzene-d5	22.16	21.66	22.66	22.17	0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

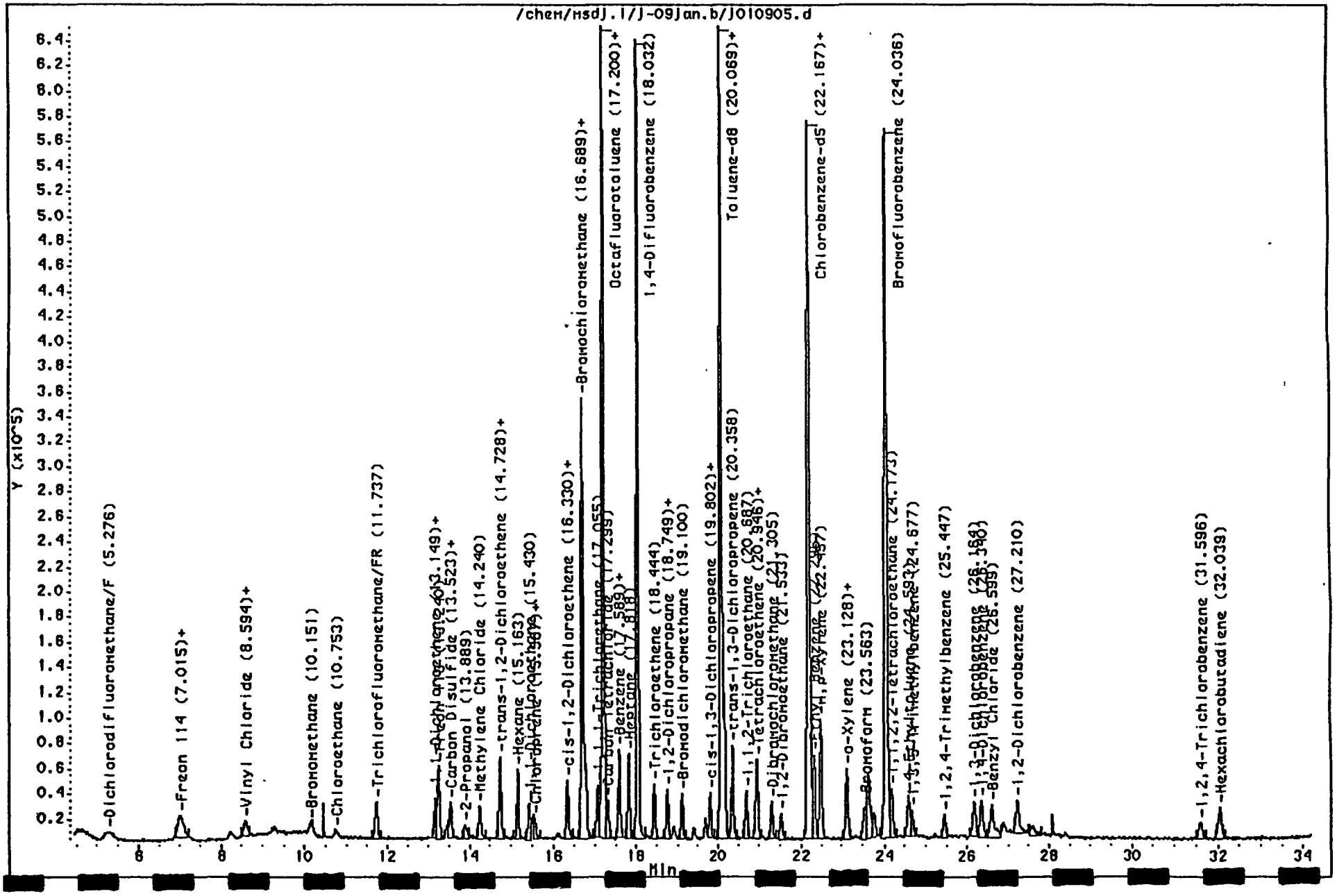
0082

Data File: /chem/hsdj.i/J-09Jan.b/J010905.d
Date : 09-JAN-1997 10:04
Client ID: VSTD0005
Sample Info: 2.5ml #296-25 100ppbv (0.5ppbv)

Column phase: RTx-624

Instrument: hsdj.i

Operator: FA
Column diameter: 0.58



Data File: /chem/msdj.i/j-09jan.b/j010906.d
Report Date: 09-Jan-1997 14:16

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010906.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 09-JAN-1997 10:44
Operator : FA Inst ID: msdj.i
Smp Info : 25.0ml #296-25 100ppbv (5.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:16 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:08 Cal File: j010908.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane					CAS #: 74-97-5			
16.691	16.691 (1.000)	130	192118	5.0			100.00	9568(Q)
16.691	16.691 (0.000)	128	44008			27.84- 127.84	22.91	
16.691	16.691 (0.000)	49	104608			135.03- 235.03	54.45	
* 43 1,4-Difluorobenzene					CAS #: 540-36-3			
18.034	18.034 (1.000)	114	832855	5.0			100.00	9727
18.034	18.034 (0.000)	88	44176			0.00- 67.42	5.30	
* 59 Chlorobenzene-d5					CAS #: 3114-55-4			
22.162	22.162 (1.000)	117	625059	5.0			100.00	7743
22.162	22.162 (0.000)	82	147072			23.02- 123.02	23.53	
$ 39 Octafluorotoluene					CAS #: 434-64-0			
17.210	17.210 (1.031)	217	423557	5.0	4.8		100.00	9824
17.210	17.210 (0.000)	186	85760			14.15- 114.15	20.25	
$ 50 Toluene-d8					CAS #: 2037-26-5			
20.071	20.071 (1.113)	98	747546	5.0	5.0		100.00	9758
20.071	20.071 (0.000)	70	27300			0.00- 62.71	3.65	
20.071	20.071 (0.000)	100	139904			15.16- 115.16	18.72	

	RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$	66 Bromofluorobenzene					CAS #: 460-00-4			
	24.038	24.038 (1.085)	95	495314	5.0	5.1		100.00	9690
	24.038	24.038 (0.000)	174	71272			10.63- 110.63	14.39	
	24.038	24.038 (0.000)	176	66416			6.50- 106.50	13.41	
	1 Propylene					CAS #: 115-07-1			
	4.683	4.683 (0.281)	41	132016	5.0	4.1		100.00	7657(Q)
	4.683	4.683 (0.000)	42	6001			10.63- 110.63	4.55	
	4.683	4.683 (0.000)	39	6312			13.77- 113.77	4.78	
	6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
	5.263	5.263 (0.315)	85	581123	5.0	4.8		100.00	9571
	5.263	5.263 (0.000)	87	12882			0.00- 81.97	2.22	
	7 Freon 114					CAS #: 76-14-2			
	7.018	7.018 (0.420)	135	425798	5.0	4.9		100.00	9745
	7.018	7.018 (0.000)	137	13045			0.00- 82.14	3.06	
	8 Chloromethane					CAS #: 74-87-3			
	7.140	7.140 (0.428)	50	249285	5.0	4.9		100.00	9498
	7.140	7.140 (0.000)	52	5860			0.00- 87.12	2.35	
	9 Vinyl Chloride					CAS #: 75-01-4			
	8.246	8.246 (0.494)	62	266334	5.0	5.0		100.00	9534
	8.246	8.246 (0.000)	64	7965			0.00- 77.24	2.99	
	10 1,3-Butadiene					CAS #: 106-99-0			
	8.589	8.589 (0.515)	54	202031	5.0	5.0		100.00	9778(Q)
	8.589	8.589 (0.000)	39	31153			48.46- 148.46	15.42	
	11 Bromomethane					CAS #: 74-83-9			
	10.161	10.161 (0.609)	94	215407	5.0	4.8		100.00	9526(Q)
	10.161	10.161 (0.000)	96	36192			48.31- 148.31	16.80	
	12 Chloroethane					CAS #: 75-00-3			
	10.741	10.741 (0.643)	64	155805	5.0	5.0		100.00	9645
	10.741	10.741 (0.000)	66	9294			0.00- 81.47	5.97	
	14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
	11.717	11.717 (0.702)	101	601167	5.0	5.1		100.00	9840
	11.717	11.717 (0.000)	103	82176			11.64- 111.64	13.67	
	15 Ethanol					CAS #: 64-17-5			
	12.747	12.747 (0.764)	45	102015	5.0	6.5		100.00	(H)
	12.747	12.747 (0.764)	46	42245			0.00- 91.41	41.41	
	12.747	12.747 (0.764)	43	23904			0.00- 73.43	23.43	
	17 1,1-Dichloroethene					CAS #: 75-35-4			
	13.144	13.144 (0.787)	96	238265	5.0	5.8		100.00	9305(Q)

Data File: /chem/msdj.i/j-09jan.b/j010906.d
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.144	13.144 (0.000)	61	122000			127.49- 227.49	51.20	
13.144	13.144 (0.000)	98	43168			12.80- 112.80	18.12	
18 Freon 113					CAS #: 76-13-1			
13.235	13.235 (0.793)	151	324843	5.0	5.0		100.00	9290(Q)
13.235	13.235 (0.000)	153	48984			13.46- 113.46	15.08	
13.235	13.235 (0.000)	101	120300			105.85- 205.85	37.03	
19 Carbon Disulfide					CAS #: 75-15-0			
13.518	13.518 (0.810)	76	733514	5.0	5.0		100.00	8027
20 Acetone					CAS #: 67-64-1			
13.388	13.388 (0.802)	43	462729	5.0	6.1		100.00	
13.388	13.388 (0.802)	58	138984			0.00- 80.04	30.04	
22 2-Propanol					CAS #: 67-63-0			
13.869	13.869 (0.831)	45	488232	5.0	5.2		100.00	7544
13.869	13.869 (0.000)	43	26146			0.00- 70.31	5.36	
13.869	13.869 (0.000)	59	5069			0.00- 53.94	1.04	
23 Methylene Chloride					CAS #: 75-09-2			
14.242	14.242 (0.853)	84	224066	5.0	5.1		100.00	9651(Q)
14.242	14.242 (0.000)	49	101848			104.22- 204.22	45.45	
14.242	14.242 (0.000)	51	32472			0.00- 99.17	14.49	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.731	14.731 (0.883)	96	241682	5.0	4.9		100.00	9589(Q)
14.731	14.731 (0.000)	61	118536			107.35- 207.35	49.05	
14.731	14.731 (0.000)	98	49080			15.15- 115.15	20.31	
26 MTBE					CAS #: 1634-04-4			
14.731	14.731 (0.883)	73	646033	5.0	5.0		100.00	6447
14.731	14.731 (0.000)	57	43376			0.00- 74.88	6.71	
14.731	14.731 (0.000)	41	43978			0.00- 75.22	6.81	
27 Hexane					CAS #: 110-54-3			
15.166	15.166 (0.909)	57	455982	5.0	5.1		100.00	7284
15.166	15.166 (0.000)	43	101843			19.51- 119.51	22.33	
15.166	15.166 (0.000)	56	75048			1.22- 101.22	16.46	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.440	15.440 (0.925)	63	458422	5.0	5.0		100.00	9634
15.440	15.440 (0.000)	65	41836			0.00- 80.49	9.13	
29 Chloroprene					CAS #: 126-99-8			
15.570	15.570 (0.933)	53	161430	5.0	5.2		100.00	7889
15.570	15.570 (0.000)	88	24764			0.00- 99.91	15.34	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.570	15.570 (0.000)	50	12487			0.00- 75.17	7.74	
30 Vinyl Acetate					CAS #: 108-05-4			
15.501	15.501 (0.929)	43	749635	5.0	5.1		100.00	5945
15.501	15.501 (0.000)	86	16469			0.00- 57.56	2.20	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.333	16.333 (0.979)	96	257903	5.0	5.0		100.00	9750(Q)
16.333	16.333 (0.000)	61	111071			98.98- 198.98	43.07	
16.333	16.333 (0.000)	98	48344			14.85- 114.85	18.75	
32 2-Butanone					CAS #: 78-93-3			
16.318	16.318 (0.978)	72	108129	5.0	5.1		100.00	7902(Q)
16.318	16.318 (0.000)	43	148791			434.74- 534.74	137.61	
16.318	16.318 (0.000)	57	9883			0.00- 82.20	9.14	
34 Chloroform					CAS #: 67-66-3			
16.775	16.775 (1.005)	83	481526	5.0	5.0		100.00	9184
16.775	16.775 (0.000)	85	94335			15.56- 115.56	19.59	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.760	16.760 (1.004)	42	250622	5.0	5.0		100.00	7488
16.760	16.760 (0.000)	71	26184			0.00- 87.36	10.45	
16.760	16.760 (0.000)	72	26934			0.00- 88.43	10.75	
36 1,1,1-Trichlorethane					CAS #: 71-55-6			
17.058	17.058 (1.022)	97	451490	5.0	5.0		100.00	9740
17.058	17.058 (0.000)	99	82088			12.67- 112.67	18.18	
37 Cyclohexane					CAS #: 110-82-7			
17.142	17.142 (1.027)	56	427842	5.0	5.1		100.00	8284(Q)
17.142	17.142 (0.000)	84	88251			21.88- 121.88	20.63	
17.142	17.142 (0.000)	41	72107			8.73- 108.73	16.85	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.309	17.309 (1.037)	119	357938	5.0	5.0		100.00	8578
17.309	17.309 (0.000)	117	40536			0.00- 89.33	11.32	
40 Benzene					CAS #: 71-43-2			
17.584	17.584 (0.975)	78	791151	5.0	5.0		100.00	9696
17.584	17.584 (0.000)	77	56750			0.00- 74.08	7.17	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.592	17.592 (0.975)	62	310040	5.0	5.0		100.00	8186
17.592	17.592 (0.000)	64	27950			0.00- 81.12	9.01	
42 Heptane					CAS #: 142-82-5			
17.821	17.821 (0.988)	43	546632	5.0	5.0		100.00	7677

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.821	17.821 (0.000)	57	84824			0.00- 98.34	15.52	
17.821	17.821 (0.000)	71	85616			0.00- 98.79	15.66	
44 Trichloroethene					CAS #: 79-01-6			
18.446	18.446 (1.023)	95	299983	5.0	4.9		100.00	7806(Q)
18.446	18.446 (0.000)	130	76000			35.60- 135.60	25.33	
18.446	18.446 (0.000)	97	56528			13.67- 113.67	18.84	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.751	18.751 (1.040)	63	276157	5.0	5.0		100.00	9705(Q)
18.751	18.751 (0.000)	62	61215			25.80- 125.80	22.17	
18.751	18.751 (0.000)	41	48193			9.67- 109.67	17.45	
46 1,4-Dioxane					CAS #: 123-91-1			
18.904	18.904 (1.048)	88	145083	5.0	4.9		100.00	9791(Q)
18.904	18.904 (0.000)	58	31616			28.21- 128.21	21.79	
18.904	18.904 (0.000)	57	10561			0.00- 76.12	7.28	
47 Bromodichloromethane					CAS #: 75-27-4			
19.102	19.102 (1.059)	83	475564	5.0	4.9		100.00	9379
19.102	19.102 (0.000)	85	86136			13.39- 113.39	18.11	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.682	19.682 (1.091)	75	193547	7.2	7.1		100.00	9557
19.682	19.682 (0.000)	77	16863			0.00- 80.06	8.71	
19.682	19.682 (0.000)	39	33537			9.78- 109.78	17.33	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.804	19.804 (1.098)	43	590585	5.0	5.0		100.00	9640
19.804	19.804 (0.000)	58	62135			0.00- 85.05	10.52	
19.804	19.804 (0.000)	85	21217			0.00- 61.97	3.59	
51 Toluene					CAS #: 108-88-3			
20.170	20.170 (1.118)	92	473090	5.0	4.9		100.00	9459(Q)
20.170	20.170 (0.000)	91	229824			118.43- 218.43	48.58	
52 Octane					CAS #: 111-65-9			
20.147	20.147 (1.117)	57	211213	5.0	4.7		100.00	8365(Q)
20.147	20.147 (0.000)	85	68920			48.51- 148.51	32.63	
20.147	20.147 (0.000)	43	186907			217.16- 317.16	88.49	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.399	20.399 (0.920)	75	51084	1.0	0.96		100.00	9676
20.399	20.399 (0.000)	77	3997			0.00- 77.26	7.82	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.689	20.689 (0.934)	97	254127	5.0	5.2		100.00	9745(Q)

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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.689	20.689 (0.000)	99	42120			8.45- 108.45	16.57	
20.689	20.689 (0.000)	83	63523			38.16- 138.16	25.00	
55 Tetrachloroethene					CAS #: 127-18-4			
20.956	20.956 (0.946)	166	276775	5.0	5.0		100.00	9270(Q)
20.956	20.956 (0.000)	129	64904			33.09- 133.09	23.45	
20.956	20.956 (0.000)	131	62344			29.81- 129.81	22.53	
56 2-Hexanone					CAS #: 591-78-6			
20.918	20.918 (0.944)	43	607966	5.0	5.3		100.00	8560
20.918	20.918 (0.000)	58	87648			0.00- 99.38	14.42	
20.918	20.918 (0.000)	100	16046			0.00- 59.04	2.64	
57 Dibromochloromethane					CAS #: 124-48-1			
21.307	21.307 (0.961)	129	340343	5.0	5.1		100.00	8205
21.307	21.307 (0.000)	208	4327			0.00- 54.97	1.27	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.528	21.528 (0.971)	107	335245	5.0	5.2		100.00	9790(Q)
21.528	21.528 (0.000)	109	80849			43.25- 143.25	24.12	
60 Chlorobenzene					CAS #: 108-90-7			
22.215	22.215 (1.002)	112	531080	5.0	5.0		100.00	9327
22.215	22.215 (0.000)	114	43088			0.00- 81.47	8.11	
22.215	22.215 (0.000)	77	87313			13.78- 113.78	16.44	
61 Ethyl Benzene					CAS #: 100-41-4			
22.299	22.299 (1.006)	106	331290	5.0	5.0		100.00	(H)
22.299	22.299 (1.006)	91	1148684			296.73- 396.73	346.73	
62 m,p-Xylene					CAS #: 108-38-3			
22.459	22.459 (1.013)	106	634566	10.0	9.8		100.00	(H)
22.459	22.459 (1.013)	91	1362372			164.69- 264.69	214.69	
63 o-Xylene					CAS #: 95-47-6			
23.123	23.123 (1.043)	106	200467	5.0	5.0		100.00	9728(Q)
23.123	23.123 (0.000)	91	112061			165.83- 265.83	55.90	
64 Styrene					CAS #: 100-42-5			
23.130	23.130 (1.044)	104	416695	5.0	5.0		100.00	9894
23.130	23.130 (0.000)	78	50240			0.00- 98.72	12.06	
65 Bromoform					CAS #: 75-25-2			
23.558	23.558 (1.063)	171	164546	5.0	5.1		100.00	8420(Q)
23.558	23.558 (0.000)	173	74536			143.98- 243.98	45.30	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.176	24.176 (1.091)	83	530413	5.0	5.4		100.00	9128

Data File: /chem/msdj.i/j-09jan.b/j010906.d
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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.176	24.176 (0.000)	85	77792			12.69- 112.69	14.67	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.595	24.595 (1.110)	105	649945	5.0	4.8		100.00	9362(M)
24.595	24.595 (1.110)	120	163682	5.0	4.7	0.00- 76.35	25.18	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.114)	105	326222	5.0	5.0		100.00	7991(M)
24.679	24.679 (1.114)	120	150504	5.0	5.0	0.00- 94.84	46.14	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.442	25.442 (1.148)	105	260129	5.0	5.0		100.00	8825
25.442	25.442 (0.000)	120	23798			0.00- 89.84	9.15	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.167	26.167 (1.181)	146	329109	5.0	5.0		100.00	
26.167	26.167 (1.181)	148	203666			11.88- 111.88	61.88	
26.167	26.167 (1.181)	111	153610			0.00- 96.67	46.67	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.342	26.342 (1.189)	146	323634	5.0	5.0		100.00	(H)
26.350	26.350 (1.189)	148	206187			13.71- 113.71	63.71	
26.350	26.350 (1.189)	111	144826			0.00- 94.75	44.75	
74 Benzyl Chloride					CAS #: 100-44-7			
26.594	26.594 (1.200)	91	617072	5.0	4.9		100.00	9278
26.594	26.594 (0.000)	126	21120			0.00- 66.49	3.42	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.227	27.227 (1.229)	146	294962	5.0	5.0		100.00	9764(Q)
27.227	27.227 (0.000)	148	35896			13.77- 113.77	12.17	
27.227	27.227 (0.000)	111	26496			0.00- 97.07	8.98	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.607	31.607 (1.426)	180	116181	5.0	4.6		100.00	9678(Q)
31.607	31.607 (0.000)	182	17792			45.53- 145.53	15.31	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.041	32.041 (1.446)	225	131070	5.0	5.0		100.00	9470
32.041	32.041 (0.000)	223	12093			7.67- 107.67	9.23	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010906.d
Report Date: 09-Jan-1997 12:02

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010906.d
Lab Smp Id: VSTD005
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD005
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	192118	0.00
43 1,4-Difluorobenzene	832855	499713	1165997	832855	0.00
59 Chlorobenzene-d5	625059	375035	875083	625059	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.69	0.00
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.03	0.00
59 Chlorobenzene-d5	22.16	21.66	22.66	22.16	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

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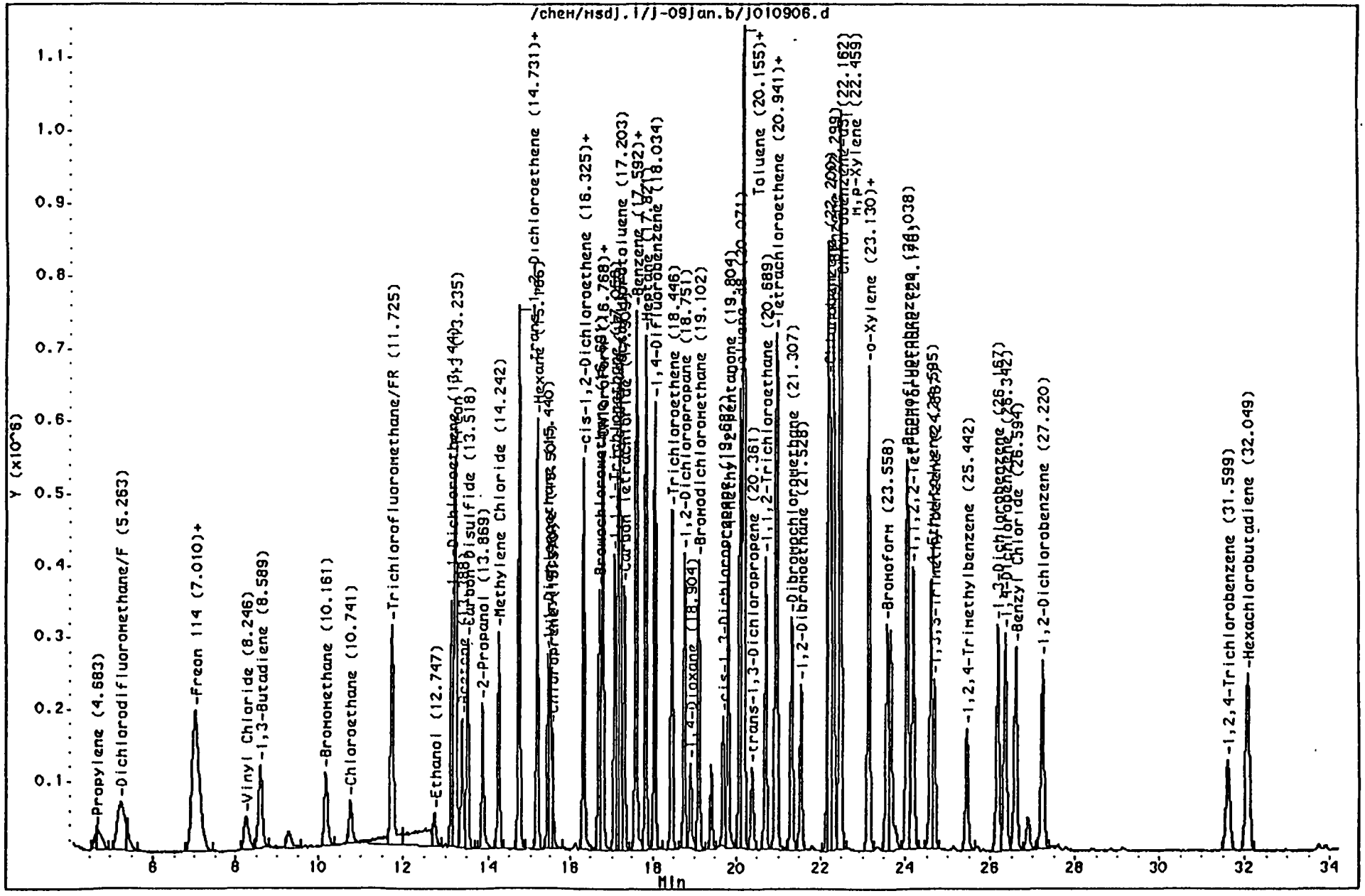
Data File: /chem/msdj.i/j-09jan.b/j010906.d
Date : 09-JAN-97 10:44
Client ID: VSTD005
Sample Info: 25.0ml M296-25 100ppbv (5.0ppbv)

Instrument: msdj.i

Operator: FA
Column diameter: 0.58

Column phase: RTx-624



Data File: /chem/msdj.i/j-09jan.b/j010907.d Page 1
Report Date: 09-Jan-1997 14:23

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010907.d
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 09-JAN-1997 11:27
Operator : FA Inst ID: msdj.i
Smp Info : 50.0ml #296-25 100ppbv (10.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:23 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

				AMOUNTS CAL-AMT	AMOUNTS ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane					CAS #: 74-97-5			
16.692	16.692 (1.000)	130	194531	5.0			100.00	9585(Q)
16.692	16.692 (0.000)	128	46640			28.83- 128.83	23.98	
16.692	16.692 (0.000)	49	105128			127.68- 227.68	54.04	
* 43 1,4-Difluorobenzene					CAS #: 540-36-3			
18.035	18.035 (1.000)	114	829384	5.0			100.00	9727
18.035	18.035 (0.000)	88	42960			0.00- 67.19	5.18	
* 59 Chlorobenzene-d5					CAS #: 3114-55-4			
22.177	22.177 (1.000)	117	656545	5.0			100.00	9779
22.177	22.177 (0.000)	82	97501			8.55- 108.55	14.85	
* 39 Octafluorotoluene					CAS #: 434-64-0			
17.211	17.211 (1.031)	217	432836	5.0	4.8		100.00	9817
17.211	17.211 (0.000)	186	88920			15.29- 115.29	20.54	
* 50 Toluene-d8					CAS #: 2037-26-5			
20.072	20.072 (1.113)	98	741386	5.0	4.9		100.00	9806
20.072	20.072 (0.000)	70	26760			0.00- 62.48	3.61	
20.072	20.072 (0.000)	100	141504			15.98- 115.98	19.09	

Data File: /chem/msdj.i/j-09jan.b/j010907.d
Report Date: 09-Jan-1997 14:23

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 66 Bromofluorobenzene					CAS #: 460-00-4			
24.039	24.039 (1.084)	95	502078	5.0	4.9		100.00	9719
24.039	24.039 (0.000)	174	70424			8.48- 108.48	14.03	
24.039	24.039 (0.000)	176	69328			7.57- 107.57	13.81	
1 Propylene					CAS #: 115-07-1			
4.699	4.699 (0.281)	41	258056	10.0	7.9		100.00	7686(Q)
4.699	4.699 (0.000)	42	12169			14.10- 114.10	4.72	
4.699	4.699 (0.000)	39	13451			20.85- 120.85	5.21	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
5.256	5.256 (0.315)	85	1149323	10.0	9.5		100.00	0(M)
5.263	5.263 (0.315)	87	0			0.00- 50.00	0.00	
7 Freon 114					CAS #: 76-14-2			
7.003	7.003 (0.420)	135	856913	10.0	9.8		100.00	9810
7.003	7.003 (0.000)	137	24496			0.00- 80.98	2.86	
8 Chloromethane					CAS #: 74-87-3			
7.117	7.117 (0.426)	50	477700	10.0	9.4		100.00	9127(M)
7.117	7.117 (0.426)	52	12892			0.00- 79.23	2.70	
9 Vinyl Chloride					CAS #: 75-01-4			
8.231	8.231 (0.493)	62	526994	10.0	9.7		100.00	9634
8.231	8.231 (0.000)	64	17504			0.00- 80.10	3.32	
10 1,3-Butadiene					CAS #: 106-99-0			
8.582	8.582 (0.514)	54	398402	10.0	9.7		100.00	9690(Q)
8.582	8.582 (0.000)	39	66407			56.78- 156.78	16.67	
11 Bromomethane					CAS #: 74-83-9			
10.161	10.161 (0.609)	94	429983	10.0	9.6		100.00	9504(Q)
10.161	10.161 (0.000)	96	72432			45.14- 145.14	16.85	
12 Chloroethane					CAS #: 75-00-3			
10.741	10.741 (0.643)	64	306321	10.0	9.8		100.00	9641
10.741	10.741 (0.000)	66	19056			0.00- 82.76	6.22	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
11.725	11.725 (0.702)	101	1211530	10.0	10.1		100.00	9872
11.725	11.725 (0.000)	103	171338			13.13- 113.13	14.14	
15 Ethanol					CAS #: 64-17-5			
12.740	12.740 (0.763)	45	209536	10.0	13.1		100.00	
12.740	12.740 (0.763)	46	86610			0.00- 91.33	41.33	
12.747	12.747 (0.764)	43	55261			0.00- 76.37	26.37	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.144	13.144 (0.787)	96	483721	10.0	11.6		100.00	9350(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.144	13.144 (0.000)	61	240960			125.93- 225.93	49.81	
13.144	13.144 (0.000)	98	87784			14.09- 114.09	18.15	
18 Freon 113					CAS #: 76-13-1			
13.236	13.236 (0.793)	151	654914	10.0	10.0		100.00	9310(Q)
13.236	13.236 (0.000)	153	100016			14.05- 114.05	15.27	
13.236	13.236 (0.000)	101	243927			106.20- 206.20	37.25	
19 Carbon Disulfide					CAS #: 75-15-0			
13.518	13.518 (0.810)	76	1480262	10.0	10.1		100.00	8114
20 Acetone					CAS #: 67-64-1			
13.381	13.381 (0.802)	43	918530	10.0	11.9		100.00	
13.381	13.381 (0.802)	58	271567			0.00- 79.57	29.57	
22 2-Propanol					CAS #: 67-63-0			
13.861	13.861 (0.830)	45	1005549	10.0	10.5		100.00	7544
13.861	13.861 (0.000)	43	52124			0.00- 69.13	5.18	
13.861	13.861 (0.000)	59	9763			0.00- 53.58	0.97	
23 Methylene Chloride					CAS #: 75-09-2			
14.243	14.243 (0.853)	84	447204	10.0	10.0		100.00	9680(Q)
14.243	14.243 (0.000)	49	199296			98.64- 198.64	44.56	
14.243	14.243 (0.000)	51	62830			0.00- 96.86	14.05	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.731	14.731 (0.883)	96	495935	10.0	10		100.00	9554(Q)
14.731	14.731 (0.000)	61	242688			104.97- 204.97	48.94	
14.731	14.731 (0.000)	98	99576			13.58- 113.58	20.08	
26 MTBE					CAS #: 1634-04-4			
14.731	14.731 (0.883)	73	1319582	10.0	10.1		100.00	6461
14.731	14.731 (0.000)	57	88400			0.00- 74.03	6.70	
14.731	14.731 (0.000)	41	92845			0.00- 75.24	7.04	
27 Hexane					CAS #: 110-54-3			
15.158	15.158 (0.908)	57	911208	10.0	10.0		100.00	7287
15.158	15.158 (0.000)	43	197960			20.00- 120.00	21.73	
15.158	15.158 (0.000)	56	149251			2.77- 102.77	16.38	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.433	15.433 (0.925)	63	918113	10.0	10		100.00	9642
15.433	15.433 (0.000)	65	86120			0.00- 81.51	9.38	
29 Chloroprene					CAS #: 126-99-8			
15.570	15.570 (0.933)	53	317266	10.0	10.1		100.00	7811
15.570	15.570 (0.000)	88	48808			1.16- 101.16	15.38	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.570	15.570 (0.000)	50	24414			0.00- 75.59	7.70	
30 Vinyl Acetate					CAS #: 108-05-4			
15.502	15.502 (0.929)	43	1534361	10.0	10.4		100.00	5917
15.502	15.502 (0.000)	86	35081			0.00- 57.73	2.29	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.333	16.333 (0.979)	96	532049	10.0	10.1		100.00	9734(Q)
16.333	16.333 (0.000)	61	219520			87.25- 187.25	41.26	
16.333	16.333 (0.000)	98	99024			11.91- 111.91	18.61	
32 2-Butanone					CAS #: 78-93-3			
16.318	16.318 (0.978)	72	218074	10.0	10.2		100.00	7901(Q)
16.318	16.318 (0.000)	43	310225			447.09- 547.09	142.26	
16.318	16.318 (0.000)	57	21626			0.00- 84.65	9.92	
34 Chloroform					CAS #: 67-66-3			
16.776	16.776 (1.005)	83	977840	10.0	10.1		100.00	9186
16.776	16.776 (0.000)	85	192128			14.95- 114.95	19.65	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.760	16.760 (1.004)	42	520480	10.0	10.2		100.00	7505
16.760	16.760 (0.000)	71	52207			0.00- 86.02	10.03	
16.760	16.760 (0.000)	72	57134			0.00- 89.42	10.98	
36 1,1,1-Trichloroethane					CAS #: 71-55-6			
17.058	17.058 (1.022)	97	902963	10.0	10		100.00	9734
17.058	17.058 (0.000)	99	170240			17.27- 117.27	18.85	
37 Cyclohexane					CAS #: 110-82-7			
17.142	17.142 (1.027)	56	848215	10.0	10		100.00	8271(Q)
17.142	17.142 (0.000)	84	183295			24.74- 124.74	21.61	
17.142	17.142 (0.000)	41	148601			10.59- 110.59	17.52	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.310	17.310 (1.037)	119	734580	10.0	10.2		100.00	9451(Q)
17.310	17.310 (0.000)	117	166768			27.68- 127.68	22.70	
40 Benzene					CAS #: 71-43-2			
17.584	17.584 (0.975)	78	1568102	10.0	9.9		100.00	9737
17.584	17.584 (0.000)	77	112752			0.00- 74.19	7.19	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.600	17.600 (0.976)	62	618858	10.0	10		100.00	8448
17.600	17.600 (0.000)	64	57624			0.00- 82.18	9.31	
42 Heptane					CAS #: 142-82-5			
17.821	17.821 (0.988)	43	1084527	10.0	9.9		100.00	7674

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.821	17.821 (0.000)	57	168994			0.00- 98.18	15.58	
17.821	17.821 (0.000)	71	172928			0.00- 99.30	15.95	
44 Trichloroethene					CAS #: 79-01-6			
18.446	18.446 (1.023)	95	601904	10.0	9.9		100.00	7790(Q)
18.446	18.446 (0.000)	130	159808			38.73- 138.73	26.55	
18.446	18.446 (0.000)	97	114616			13.64- 113.64	19.04	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.752	18.752 (1.040)	63	549958	10.0	10.1		100.00	9737(Q)
18.752	18.752 (0.000)	62	120608			25.56- 125.56	21.93	
18.752	18.752 (0.000)	41	98518			11.72- 111.72	17.91	
46 1,4-Dioxane					CAS #: 123-91-1			
18.904	18.904 (1.048)	88	299209	10.0	10.1		100.00	9787(Q)
18.904	18.904 (0.000)	58	64336			25.46- 125.46	21.50	
18.904	18.904 (0.000)	57	21249			0.00- 74.92	7.10	
47 Bromodichloromethane					CAS #: 75-27-4			
19.110	19.110 (1.060)	83	965243	10.0	10.0		100.00	9372
19.110	19.110 (0.000)	85	170112			11.51- 111.51	17.62	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.682	19.682 (1.091)	75	393646	14.4	14.6		100.00	9657
19.682	19.682 (0.000)	77	35827			0.00- 81.77	9.10	
19.682	19.682 (0.000)	39	64781			7.45- 107.45	16.46	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.805	19.805 (1.098)	43	1205412	10.0	10.2		100.00	9604
19.805	19.805 (0.000)	58	124570			0.00- 84.95	10.33	
19.805	19.805 (0.000)	85	41828			0.00- 61.74	3.47	
51 Toluene					CAS #: 108-88-3			
20.171	20.171 (1.118)	92	940562	10.0	9.8		100.00	9732(Q)
20.171	20.171 (0.000)	91	465216			118.81- 218.81	49.46	
52 Octane					CAS #: 111-65-9			
20.148	20.148 (1.117)	57	429505	10.0	9.6		100.00	8414(Q)
20.148	20.148 (0.000)	85	140416			50.22- 150.22	32.69	
20.148	20.148 (0.000)	43	382805			223.22- 323.22	89.13	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.400	20.400 (0.920)	75	101902	2.0	1.8		100.00	9245
20.400	20.400 (0.000)	77	8316			0.00- 79.62	8.16	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.689	20.689 (0.933)	97	510323	10.0	10.0		100.00	9792(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.689	20.689 (0.000)	99	89288			12.79- 112.79	17.50	
20.689	20.689 (0.000)	83	126712			39.10- 139.10	24.83	
55 Tetrachloroethene					CAS #: 127-18-4			
20.956	20.956 (0.945)	166	565139	10.0	9.8		100.00	9457(Q)
20.956	20.956 (0.000)	129	132608			32.85- 132.85	23.46	
20.956	20.956 (0.000)	131	125792			28.59- 128.59	22.26	
56 2-Hexanone					CAS #: 591-78-6			
20.918	20.918 (0.943)	43	1250843	10.0	10.4		100.00	8563
20.918	20.918 (0.000)	58	181333			0.00- 98.87	14.50	
20.918	20.918 (0.000)	100	32360			0.00- 58.72	2.59	
57 Dibromochloromethane					CAS #: 124-48-1			
21.307	21.307 (0.961)	129	702778	10.0	10.1		100.00	8302
21.307	21.307 (0.000)	208	7833			0.00- 54.22	1.11	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.529	21.529 (0.971)	107	670643	10.0	10		100.00	9740(Q)
21.529	21.529 (0.000)	109	167872			46.40- 146.40	25.03	
60 Chlorobenzene					CAS #: 108-90-7			
22.215	22.215 (1.002)	112	1096315	10.0	9.8		100.00	9652
22.215	22.215 (0.000)	114	89592			0.00- 81.98	8.17	
22.215	22.215 (0.000)	77	170703			10.92- 110.92	15.57	
61 Ethyl Benzene					CAS #: 100-41-4			
22.299	22.299 (1.006)	106	670810	10.0	9.6		100.00	(H)
22.299	22.299 (1.006)	91	2322710			296.25- 396.25	346.25	
62 m,p-Xylene					CAS #: 108-38-3			
22.459	22.459 (1.013)	106	1286569	20.0	18.9		100.00	(H)
22.459	22.459 (1.013)	91	2765569			164.96- 264.96	214.96	
63 o-Xylene					CAS #: 95-47-6			
23.131	23.131 (1.043)	106	404830	10.0	9.6		100.00	9569(Q)
23.131	23.131 (0.000)	91	224221			166.39- 266.39	55.39	
64 Styrene					CAS #: 100-42-5			
23.138	23.138 (1.043)	104	872225	10.0	9.9		100.00	9757
23.138	23.138 (0.000)	78	104280			0.00- 98.09	11.96	
65 Bromoform					CAS #: 75-25-2			
23.558	23.558 (1.062)	171	338006	10.0	10.0		100.00	8405(Q)
23.558	23.558 (0.000)	173	150656			141.89- 241.89	44.57	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.176	24.176 (1.090)	83	1018077	10.0	9.8		100.00	9435

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.176	24.176 (0.000)	85	144384			11.12- 111.12	14.18	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.596	24.596 (1.109)	105	1387130	10.0	9.8		100.00	9331(M)
24.596	24.596 (1.109)	120	352472	10.0	9.7	0.00- 76.11	25.41	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.113)	105	671249	10.0	9.9		100.00	7955(M)
24.680	24.680 (1.113)	120	314188	10.0	10.0	0.00- 93.88	46.81	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.442	25.442 (1.147)	105	538762	10.0	9.8		100.00	8886
25.442	25.442 (0.000)	120	51321			0.00- 92.53	9.53	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.175	26.175 (1.180)	146	660635	10.0	9.5		100.00	
26.167	26.167 (1.180)	148	422142			13.90- 113.90	63.90	
26.167	26.167 (1.180)	111	308151			0.00- 96.64	46.64	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.350	26.350 (1.188)	146	655856	10.0	9.6		100.00	(H)
26.350	26.350 (1.188)	148	416047			13.44- 113.44	63.44	
26.343	26.343 (1.188)	111	292687			0.00- 94.63	44.63	
74 Benzyl Chloride					CAS #: 100-44-7			
26.595	26.595 (1.199)	91	1284507	10.0	9.8		100.00	9391
26.595	26.595 (0.000)	126	43440			0.00- 66.70	3.38	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.228	27.228 (1.228)	146	600206	10.0	9.6		100.00	9763
27.228	27.228 (0.000)	148	70847			11.02- 111.02	11.80	
27.228	27.228 (0.000)	111	55444			0.00- 97.75	9.24	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.607	31.607 (1.425)	180	223116	10.0	8.5		100.00	9749(Q)
31.607	31.607 (0.000)	182	33584			43.33- 143.33	15.05	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.049	32.049 (1.445)	225	251747	10.0	9.1		100.00	9575
32.049	32.049 (0.000)	223	25049			9.71- 109.71	9.95	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
- Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010907.d
Report Date: 09-Jan-1997 12:08

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

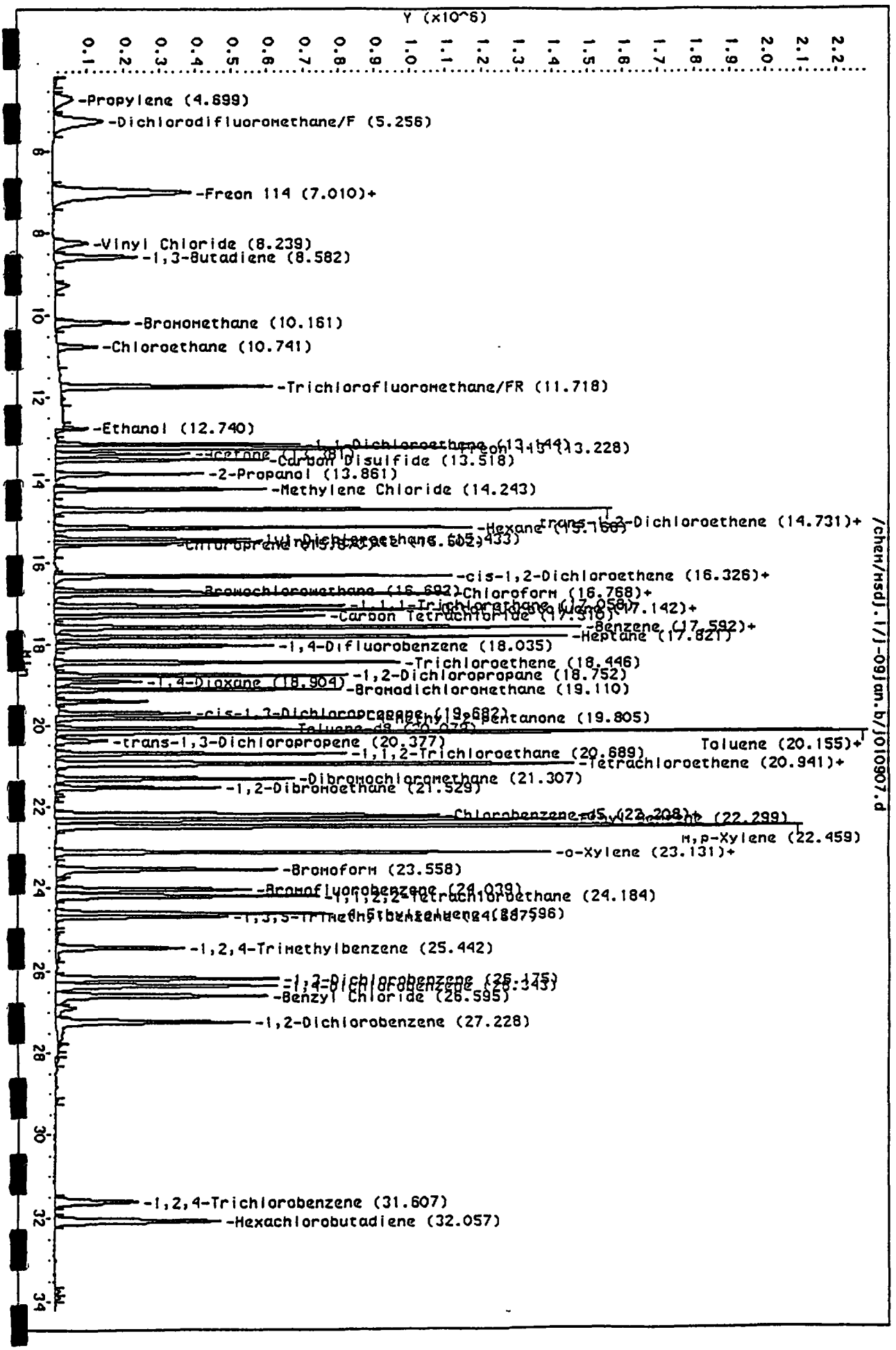
Instrument ID: msdj.i
Lab File ID: j010907.d
Lab Smp Id: VSTD010
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD010
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	194531	1.26
43 1,4-Difluorobenzene	832855	499713	1165997	829384	-0.42
59 Chlorobenzene-d5	625059	375035	875083	656545	5.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.69	0.00
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.03	0.00
59 Chlorobenzene-d5	22.16	21.66	22.66	22.18	0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: /chem/hsdj.i/j-09jan.b/j010907.d
Date : 09-JAN-97 11:27
Client ID: VSTD010
Sample Info: 50.0ml #296-25 100ppbv (10.0ppbv)

Column phase: RTx-624

/chem/hsdj.i/j-09jan.b/j010907.d

Instrument: hsdj.i

Operator: FA
Column diameter: 0.58

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010908.d
Lab Smp Id: VSTD025 Client Smp ID: VSTD025
Inj Date : 09-JAN-1997 12:08
Operator : FA Inst ID: msdj.i
Smp Info : 125.0ml #296-25 100ppbv (25.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:18 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:08 Cal File: j010908.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

					AMOUNTS CAL-AMT	AMOUNTS ON-COL			
RT	EXP RT (REL RT)	MASS	RESPONSE		(PPBV)	(PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane						CAS #: 74-97-5			
16.722	16.722 (1.000)	130	182238		5.0			100.00	9511(Q)
16.722	16.722 (0.000)	128	38656				25.11- 125.11	21.21	
16.722	16.722 (0.000)	49	96856				138.20- 238.20	53.15	
* 43 1,4-Difluorobenzene						CAS #: 540-36-3			
18.050	18.050 (1.000)	114	762215		5.0			100.00	9760
18.050	18.050 (0.000)	88	38576				0.00- 66.51	5.06	
* 59 Chlorobenzene-d5						CAS #: 3114-55-4			
22.170	22.170 (1.000)	117	613020		5.0			100.00	9350
22.170	22.170 (0.000)	82	91570				7.48- 107.48	14.94	
$ 39 Octafluorotoluene						CAS #: 434-64-0			
17.211	17.211 (1.029)	217	440297		5.0	5.2		100.00	8770
17.211	17.211 (0.000)	186	88536				14.67- 114.67	20.11	
$ 50 Toluene-d8						CAS #: 2037-26-5			
20.079	20.079 (1.112)	98	704821		5.0	5.1		100.00	9726
20.079	20.079 (0.000)	70	24609				0.00- 62.35	3.49	
20.079	20.079 (0.000)	100	133263				16.89- 116.89	18.91	

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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 66 Bromofluorobenzene					CAS #: 460-00-4			
24.039	24.039 (1.084)	95	473245	5.0	5.0		100.00	9686
24.039	24.039 (0.000)	174	67544			10.59- 110.59	14.27	
24.039	24.039 (0.000)	176	63448			6.91- 106.91	13.41	
1 Propylene					CAS #: 115-07-1			
7.384	7.384 (0.442)	41	979263	25.0	32.1		100.00	6803(M)
7.392	7.392 (0.442)	42	643311			15.19- 115.19	65.69	
7.384	7.384 (0.442)	39	672872			18.12- 118.12	68.71	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
7.705	7.705 (0.461)	85	3130681	25.0	27.6		100.00	0(M)
7.705	7.705 (0.461)	87	1020297			0.00- 83.23	32.59	
7 Freon 114					CAS #: 76-14-2			
8.704	8.704 (0.520)	135	2125504	25.0	25.9		100.00	0(M)
8.712	8.712 (0.521)	137	672576			0.00- 81.78	31.64	
8 Chloromethane					CAS #: 74-87-3			
8.841	8.841 (0.529)	50	1324485	25.0	27.7		100.00	5718(M)
8.834	8.834 (0.528)	52	406010			0.00- 83.32	30.65	
9 Vinyl Chloride					CAS #: 75-01-4			
9.520	9.520 (0.569)	62	1329600	25.0	26.2		100.00	2401(M)
9.520	9.520 (0.569)	64	413288			0.00- 82.12	31.08	
10 1,3-Butadiene					CAS #: 106-99-0			
9.734	9.734 (0.582)	54	1038221	25.0	27.0		100.00	1680(M)
9.742	9.742 (0.583)	39	1084508			52.88- 152.88	104.46	
11 Bromomethane					CAS #: 74-83-9			
10.909	10.909 (0.652)	94	1050581	25.0	25.0		100.00	3462(M)
10.916	10.916 (0.653)	96	993010			43.56- 143.56	94.52	
12 Chloroethane					CAS #: 75-00-3			
11.336	11.336 (0.678)	64	699484	25.0	23.9		100.00	4574(M)
11.336	11.336 (0.678)	66	218115			0.00- 82.26	31.18	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
12.122	12.122 (0.725)	101	2847720	25.0	25.4		100.00	9906(Q)
12.122	12.122 (0.000)	103	361152			15.80- 115.80	12.68	
15 Ethanol					CAS #: 64-17-5			
12.870	12.870 (0.770)	45	282656	25.0	18.9		100.00	(H)
12.870	12.870 (0.770)	46	121233			0.00- 92.89	42.89	
12.877	12.877 (0.770)	43	66313			0.00- 73.46	23.46	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.365	13.365 (0.799)	96	774956	25.0	19.8		100.00	6280(QH)

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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.365	13.365 (0.000)	61	332314			119.48- 219.48	42.88	
13.365	13.365 (0.000)	98	126971			14.76- 114.76	16.38	
18 Freon 113					CAS #: 76-13-1			
13.396	13.396 (0.801)	151	1553260	25.0	25.4		100.00	9870(Q)
13.396	13.396 (0.000)	153	206912			15.75- 115.75	13.32	
13.396	13.396 (0.000)	101	383232			71.78- 171.78	24.67	
19 Carbon Disulfide					CAS #: 75-15-0			
13.762	13.762 (0.823)	76	3468988	25.0	25.2		100.00	8164
20 Acetone					CAS #: 67-64-1			
13.533	13.533 (0.809)	43	1161913	25.0	16.1		100.00	
13.533	13.533 (0.809)	58	315384			0.00- 77.14	27.14	
22 2-Propanol					CAS #: 67-63-0			
13.922	13.922 (0.833)	45	2456307	25.0	27.4		100.00	7496
13.922	13.922 (0.000)	43	109251			0.00- 67.90	4.45	
13.922	13.922 (0.000)	59	20920			0.00- 53.43	0.85	
23 Methylene Chloride					CAS #: 75-09-2			
14.350	14.350 (0.858)	84	1043363	25.0	25.0		100.00	9749(Q)
14.350	14.350 (0.000)	49	436416			96.55- 196.55	41.83	
14.350	14.350 (0.000)	51	135286			0.00- 95.43	12.97	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.815	14.815 (0.886)	96	1193282	25.0	25.7		100.00	9628(Q)
14.815	14.815 (0.000)	61	553408			102.72- 202.72	46.38	
14.815	14.815 (0.000)	98	226752			12.58- 112.58	19.00	
26 MTBE					CAS #: 1634-04-4			
14.807	14.807 (0.885)	73	3132204	25.0	25.6		100.00	6432
14.807	14.807 (0.000)	57	191552			0.00- 74.41	6.12	
14.807	14.807 (0.000)	41	197973			0.00- 75.22	6.32	
27 Hexane					CAS #: 110-54-3			
15.227	15.227 (0.911)	57	2152232	25.0	25.3		100.00	7287
15.227	15.227 (0.000)	43	438993			19.09- 119.09	20.40	
15.227	15.227 (0.000)	56	328570			1.71- 101.71	15.27	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.494	15.494 (0.927)	63	2208134	25.0	25.6		100.00	9527
15.494	15.494 (0.000)	65	190976			0.00- 81.16	8.65	
29 Chloroprene					CAS #: 126-99-8			
15.631	15.631 (0.935)	53	762852	25.0	25.9		100.00	7611
15.631	15.631 (0.000)	88	115369			3.15- 103.15	15.12	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.631	15.631 (0.000)	50	52633			0.00- 74.25	6.90	
30 Vinyl Acetate					CAS #: 108-05-4			
15.547	15.547 (0.930)	43	3750938	25.0	27.0		100.00	5957
15.547	15.547 (0.000)	86	89940			0.00- 58.06	2.40	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.371	16.371 (0.979)	96	1261689	25.0	25.6		100.00	9754(Q)
16.371	16.371 (0.000)	61	518336			90.65- 190.65	41.08	
16.371	16.371 (0.000)	98	235328			13.86- 113.86	18.65	
32 2-Butanone					CAS #: 78-93-3			
16.356	16.356 (0.978)	72	534047	25.0	26.6		100.00	7913(Q)
16.356	16.356 (0.000)	43	754119			449.07- 549.07	141.21	
16.356	16.356 (0.000)	57	48451			0.00- 82.06	9.07	
34 Chloroform					CAS #: 67-66-3			
16.806	16.806 (1.005)	83	2309788	25.0	25.5		100.00	9660
16.806	16.806 (0.000)	85	439808			14.36- 114.36	19.04	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.799	16.799 (1.005)	42	1228018	25.0	25.7		100.00	7501
16.799	16.799 (0.000)	71	119344			0.00- 84.41	9.72	
16.799	16.799 (0.000)	72	132486			0.00- 88.20	10.79	
36 1,1,1-Trichlorethane					CAS #: 71-55-6			
17.096	17.096 (1.022)	97	2150766	25.0	25.3		100.00	9710
17.096	17.096 (0.000)	99	388032			14.13- 114.13	18.04	
37 Cyclohexane					CAS #: 110-82-7			
17.180	17.180 (1.027)	56	1990630	25.0	25.0		100.00	8278(Q)
17.180	17.180 (0.000)	84	413685			25.14- 125.14	20.78	
17.180	17.180 (0.000)	41	332918			10.47- 110.47	16.72	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.340	17.340 (1.037)	119	1771700	25.0	26.4		100.00	9489(Q)
17.340	17.340 (0.000)	117	476560			44.11- 144.11	26.90	
40 Benzene					CAS #: 71-43-2			
17.615	17.615 (0.976)	78	3717472	25.0	25.5		100.00	9809
17.615	17.615 (0.000)	77	262289			0.00- 74.19	7.06	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.615	17.615 (0.976)	62	1462842	25.0	25.7		100.00	8249
17.615	17.615 (0.000)	64	133824			0.00- 80.95	9.15	
42 Heptane					CAS #: 142-82-5			
17.829	17.829 (0.988)	43	2642976	25.0	26.3		100.00	7668

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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.829	17.829 (0.000)	57	406516			0.00- 98.90	15.38	
17.829	17.829 (0.000)	71	409385			0.00- 99.25	15.49	
44 Trichloroethene					CAS #: 79-01-6			
18.454	18.454 (1.022)	95	1428786	25.0	25.7		100.00	7783(Q)
18.454	18.454 (0.000)	130	371712			37.30- 137.30	26.02	
18.454	18.454 (0.000)	97	277696			15.22- 115.22	19.44	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.767	18.767 (1.040)	63	1297182	25.0	25.8		100.00	9698(Q)
18.767	18.767 (0.000)	62	277955			23.89- 123.89	21.43	
18.767	18.767 (0.000)	41	223954			9.53- 109.53	17.26	
46 1,4-Dioxane					CAS #: 123-91-1			
18.958	18.958 (1.050)	88	726209	25.0	26.7		100.00	9775(Q)
18.958	18.958 (0.000)	58	107237			25.68- 125.68	14.77	
18.958	18.958 (0.000)	57	37210			0.00- 76.26	5.12	
47 Bromodichloromethane					CAS #: 75-27-4			
19.110	19.110 (1.059)	83	2329137	25.0	26.4		100.00	9379
19.110	19.110 (0.000)	85	421696			13.23- 113.23	18.11	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.690	19.690 (1.091)	75	943827	36.0	38.1		100.00	9669
19.690	19.690 (0.000)	77	84747			0.00- 81.01	8.98	
19.690	19.690 (0.000)	39	157389			7.59- 107.59	16.68	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.805	19.805 (1.097)	43	2839593	25.0	26.1		100.00	9632
19.805	19.805 (0.000)	58	286454			0.00- 85.65	10.09	
19.805	19.805 (0.000)	85	102076			0.00- 62.70	3.59	
51 Toluene					CAS #: 108-88-3			
20.171	20.171 (1.117)	92	2296632	25.0	26.1		100.00	9697(Q)
20.171	20.171 (0.000)	91	1154437			120.64- 220.64	50.27	
52 Octane					CAS #: 111-65-9			
20.155	20.155 (1.117)	57	1098040	25.0	26.6		100.00	8353(Q)
20.155	20.155 (0.000)	85	375675			55.20- 155.20	34.21	
20.155	20.155 (0.000)	43	989788			227.17- 327.17	90.14	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.407	20.407 (0.920)	75	243825	5.0	4.6		100.00	8412
20.407	20.407 (0.000)	77	19653			0.00- 79.54	8.06	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.697	20.697 (0.934)	97	1223037	25.0	25.7		100.00	9801(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.697	20.697 (0.000)	99	206400			10.30- 110.30	16.88	
20.697	20.697 (0.000)	83	297349			36.88- 136.88	24.31	
55 Tetrachloroethene					CAS #: 127-18-4			
20.964	20.964 (0.946)	166	1382892	25.0	25.8		100.00	8935(Q)
20.964	20.964 (0.000)	129	316928			29.90- 129.90	22.92	
20.964	20.964 (0.000)	131	303296			26.46- 126.46	21.93	
56 2-Hexanone					CAS #: 591-78-6			
20.918	20.918 (0.944)	43	3040070	25.0	27.0		100.00	8575
20.918	20.918 (0.000)	58	429257			0.01- 100.01	14.12	
20.918	20.918 (0.000)	100	78992			0.00- 59.20	2.60	
57 Dibromochloromethane					CAS #: 124-48-1			
21.307	21.307 (0.961)	129	1723049	25.0	26.5		100.00	8310
21.307	21.307 (0.000)	208	19648			0.00- 54.28	1.14	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.529	21.529 (0.971)	107	1622479	25.0	25.8		100.00	9737(Q)
21.529	21.529 (0.000)	109	401024			45.05- 145.05	24.72	
60 Chlorobenzene					CAS #: 108-90-7			
22.223	22.223 (1.002)	112	2736877	25.0	26.1		100.00	9788
22.223	22.223 (0.000)	114	221504			0.00- 81.34	8.09	
22.223	22.223 (0.000)	77	439739			12.21- 112.21	16.07	
61 Ethyl Benzene					CAS #: 100-41-4			
22.299	22.299 (1.006)	106	1763511	25.0	27.0		100.00	(H)
22.299	22.299 (1.006)	91	6057297			293.48- 393.48	343.48	
62 m,p-Xylene					CAS #: 108-38-3			
22.467	22.467 (1.013)	106	3453692	50.0	54.4		100.00	(MH)
22.459	22.459 (1.013)	91	7216317			158.95- 258.95	208.95	
63 o-Xylene					CAS #: 95-47-6			
23.131	23.131 (1.043)	106	1076261	25.0	27.4		100.00	9610(Q)
23.131	23.131 (0.000)	91	618139			174.86- 274.86	57.43	
64 Styrene					CAS #: 100-42-5			
23.138	23.138 (1.044)	104	2322016	25.0	28.2		100.00	9828
23.138	23.138 (0.000)	78	285175			0.00- 98.00	12.28	
65 Bromoform					CAS #: 75-25-2			
23.558	23.558 (1.063)	171	854930	25.0	27.2		100.00	8454(Q)
23.558	23.558 (0.000)	173	382848			138.77- 238.77	44.78	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.184	24.184 (1.091)	83	2442920	25.0	25.3		100.00	9714

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.184	24.184 (0.000)	85	353404			12.67- 112.67	14.47	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.603	24.603 (1.110)	105	3749039	25.0	28.4		100.00	9351(M)
24.603	24.603 (1.110)	120	987376	25.0	29.1	0.00- 76.55	26.34	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.114)	105	1860375	25.0	29.4		100.00	8123(QM)
24.687	24.687 (1.114)	120	799446	25.0	27.4	245.81- 345.81	42.97	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.450	25.450 (1.148)	105	1477726	25.0	28.7		100.00	8854
25.450	25.450 (0.000)	120	138301			0.00- 91.34	9.36	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.175	26.175 (1.181)	146	1828402	25.0	28.1		100.00	
26.175	26.175 (1.181)	148	1157841			13.33- 113.33	63.33	
26.175	26.175 (1.181)	111	830611			0.00- 95.43	45.43	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.350	26.350 (1.189)	146	1777182	25.0	28.0		100.00	(H)
26.350	26.350 (1.189)	148	1127631			13.45- 113.45	63.45	
26.350	26.350 (1.189)	111	787076			0.00- 94.29	44.29	
74 Benzyl Chloride					CAS #: 100-44-7			
26.595	26.595 (1.200)	91	3622570	25.0	29.6		100.00	9300
26.595	26.595 (0.000)	126	129472			0.00- 67.72	3.57	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.228	27.228 (1.228)	146	1631883	25.0	28.0		100.00	9767(Q)
27.228	27.228 (0.000)	148	200896			14.57- 114.57	12.31	
27.228	27.228 (0.000)	111	149669			0.00- 98.10	9.17	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.615	31.615 (1.426)	180	723811	25.0	29.4		100.00	9759(Q)
31.615	31.615 (0.000)	182	108864			44.99- 144.99	15.04	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.057	32.057 (1.446)	225	714173	25.0	27.5		100.00	9693(Q)
32.057	32.057 (0.000)	223	71027			11.50- 111.50	9.95	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010908.d
Report Date: 09-Jan-1997 12:42

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010908.d
Lab Smp Id: VSTD025
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD025
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	182238	-5.14
43 1,4-Difluorobenzene	832855	499713	1165997	762215	-8.48
59 Chlorobenzene-d5	625059	375035	875083	613020	-1.93

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.72	0.19
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.05	0.09
59 Chlorobenzene-d5	22.16	21.66	22.66	22.17	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

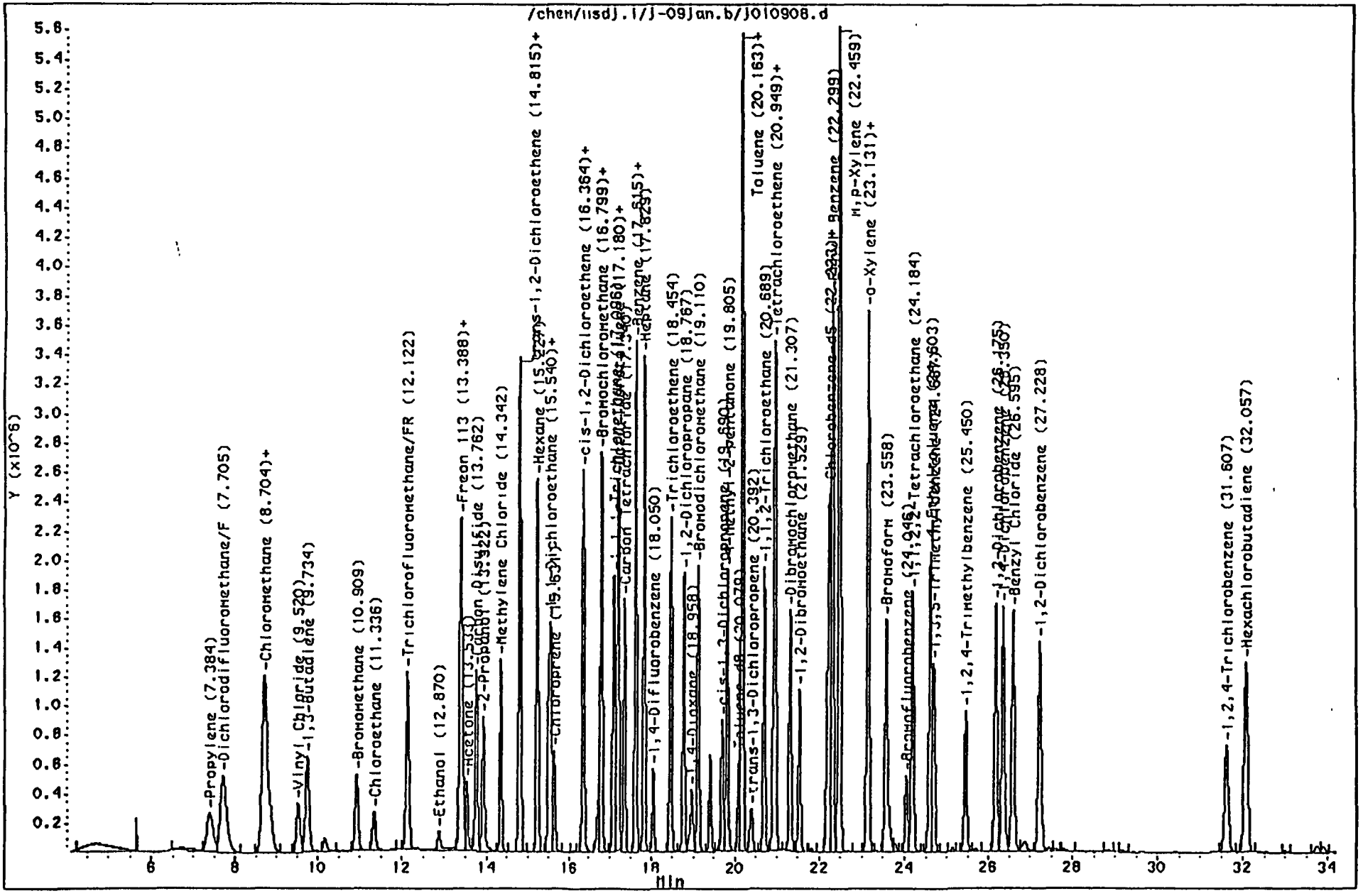
C109

Data File: /chem/msdj.i/j-09jan.b/j010908.d
Date : 09-JAN-97 12:08
Client ID: VSTD025
Sample Info: 1250.0ml #296-25 100ppbv (25.0ppbv)

Instrument: msdj.i

Operator: FA
Column diameter: 0.58

Column phase: RTx-624



Data File: /chem/msdj.i/j-09jan.b/j010909.d Page 1
Report Date: 09-Jan-1997 14:21

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010909.d
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 09-JAN-1997 12:48
Operator : FA Inst ID: msdj.i
Smp Info : 250.0ml #296-25 100ppbv (50.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:19 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane					CAS #: 74-97-5			
16.730	16.730 (1.000)	130	178952	5.0			100.00	9569(Q)
16.730	16.730 (0.000)	128	40760			28.96- 128.96	22.78	
16.730	16.730 (0.000)	49	94160			132.40- 232.40	52.62	
43 1,4-Difluorobenzene					CAS #: 540-36-3			
18.050	18.050 (1.000)	114	733906	5.0			100.00	9778
18.050	18.050 (0.000)	88	39048			0.00- 67.60	5.32	
59 Chlorobenzene-d5					CAS #: 3114-55-4			
22.177	22.177 (1.000)	117	614884	5.0			100.00	7200
22.177	22.177 (0.000)	82	94596			11.03- 111.03	15.38	
39 Octafluorotoluene					CAS #: 434-64-0			
17.211	17.211 (1.029)	217	452389	5.0	5.4		100.00	7856
17.211	17.211 (0.000)	186	90416			15.56- 115.56	19.99	
50 Toluene-d8					CAS #: 2037-26-5			
20.079	20.079 (1.112)	98	680769	5.0	5.1		100.00	9856
20.079	20.079 (0.000)	70	21580			0.00- 61.21	3.17	
20.079	20.079 (0.000)	100	125027			14.97- 114.97	18.37	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 66 Bromofluorobenzene					CAS #: 460-00-4			
24.047	24.047 (1.084)	95	465684	5.0	4.9		100.00	9785
24.047	24.047 (0.000)	174	69062			14.31- 114.31	14.83	
24.047	24.047 (0.000)	176	65832			11.30- 111.30	14.14	
1 Propylene					CAS #: 115-07-1			
7.667	7.667 (0.458)	41	1736727	50.0	57.9		100.00	7686(AQ)
7.667	7.667 (0.000)	42	110114			14.09- 114.09	6.34	
7.667	7.667 (0.000)	39	117041			18.12- 118.12	6.74	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
7.949	7.949 (0.475)	85	5790517	50.0	51.9		100.00	9503
7.949	7.949 (0.000)	87	189952			0.00- 82.25	3.28	
7 Freon 114					CAS #: 76-14-2			
8.849	8.849 (0.529)	135	4061565	50.0	50.4		100.00	9792
8.849	8.849 (0.000)	137	150016			0.00- 81.00	3.69	
8 Chloromethane					CAS #: 74-87-3			
8.994	8.994 (0.538)	50	2442063	50.0	52.0		100.00	9655
8.994	8.994 (0.000)	52	97187			0.00- 89.97	3.98	
9 Vinyl Chloride					CAS #: 75-01-4			
9.635	9.635 (0.576)	62	2491144	50.0	50.1		100.00	9647
9.635	9.635 (0.000)	64	127312			0.00- 82.04	5.11	
10 1,3-Butadiene					CAS #: 106-99-0			
9.849	9.849 (0.589)	54	1905093	50.0	50.4		100.00	9736(Q)
9.849	9.849 (0.000)	39	329019			50.51- 150.51	17.27	
11 Bromomethane					CAS #: 74-83-9			
10.985	10.985 (0.657)	94	2223659	50.0	53.8		100.00	9576(Q)
10.985	10.985 (0.000)	96	403904			44.51- 144.51	18.16	
12 Chloroethane					CAS #: 75-00-3			
11.382	11.382 (0.680)	64	1345581	50.0	46.9		100.00	9675
11.382	11.382 (0.000)	66	81693			0.00- 81.19	6.07	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
12.168	12.168 (0.727)	101	5505499	50.0	50.0		100.00	9888(Q)
12.168	12.168 (0.000)	103	710783			15.55- 115.55	12.91	
15 Ethanol					CAS #: 64-17-5			
12.885	12.885 (0.770)	45	581024	50.0	39.6		100.00	
12.893	12.893 (0.771)	46	231436			0.00- 89.83	39.83	
12.893	12.893 (0.771)	43	137187			0.00- 73.61	23.61	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.389	13.389 (0.800)	96	1485052	50.0	38.7		100.00	6330(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
.389	13.389 (0.000)	61	641768			119.93- 219.93	43.22	
.389	13.389 (0.000)	98	247808			15.62- 115.62	16.69	
18 Freon 113					CAS #: 76-13-1			
.427	13.427 (0.803)	151	2992908	50.0	50.0		100.00	9883(Q)
.427	13.427 (0.000)	153	411904			16.40- 116.40	13.76	
13.427	13.427 (0.000)	101	742603			69.71- 169.71	24.81	
19 Carbon Disulfide					CAS #: 75-15-0			
.793	13.793 (0.824)	76	6732230	50.0	49.8		100.00	8154
20 Acetone					CAS #: 67-64-1			
.556	13.556 (0.810)	43	3232939	50.0	45.6		100.00	
13.556	13.556 (0.810)	58	1019775			0.00- 81.54	31.54	
22 2-Propanol					CAS #: 67-63-0			
.938	13.938 (0.833)	45	4749237	50.0	53.9		100.00	7370
13.938	13.938 (0.000)	43	217285			0.00- 67.16	4.58	
13.938	13.938 (0.000)	59	44712			0.00- 53.53	0.94	
23 Methylene Chloride					CAS #: 75-09-2			
14.365	14.365 (0.859)	84	1998488	50.0	48.7		100.00	9744(Q)
.365	14.365 (0.000)	49	855744			98.40- 198.40	42.82	
.365	14.365 (0.000)	51	264727			0.00- 95.91	13.25	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
.830	14.830 (0.886)	96	2330112	50.0	51.0		100.00	9592(Q)
.830	14.830 (0.000)	61	1110016			102.43- 202.43	47.64	
.830	14.830 (0.000)	98	457792			12.87- 112.87	19.65	
26 MTBE					CAS #: 1634-04-4			
.823	14.823 (0.886)	73	6159874	50.0	51.3		100.00	6400
14.823	14.823 (0.000)	57	382656			0.00- 74.33	6.21	
14.823	14.823 (0.000)	41	374920			0.00- 73.83	6.09	
27 Hexane					CAS #: 110-54-3			
15.235	15.235 (0.911)	57	4170251	50.0	50.0		100.00	7287
.235	15.235 (0.000)	43	870435			19.23- 119.23	20.87	
.235	15.235 (0.000)	56	660100			2.50- 102.50	15.83	
28 1,1-Dichloroethane					CAS #: 75-34-3			
.509	15.509 (0.927)	63	4190073	50.0	49.5		100.00	9043
.509	15.509 (0.000)	65	378866			0.00- 81.56	9.04	
29 Chloroprene					CAS #: 126-99-8			
.639	15.639 (0.935)	53	1472418	50.0	50.9		100.00	7667
.639	15.639 (0.000)	88	221581			1.47- 101.47	15.05	

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RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.639	15.639 (0.000)	50	108321			0.00- 75.16	7.36	
30 Vinyl Acetate					CAS #: 108-05-4			
15.555	15.555 (0.930)	43	7473687	50.0	54.8		100.00	5928
15.555	15.555 (0.000)	86	182242			0.00- 57.92	2.44	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.372	16.372 (0.979)	96	2477142	50.0	51.2		100.00	9681(Q)
16.372	16.372 (0.000)	61	1024192			87.23- 187.23	41.35	
16.372	16.372 (0.000)	98	458368			11.42- 111.42	18.50	
32 2-Butanone					CAS #: 78-93-3			
16.356	16.356 (0.978)	72	1055539	50.0	53.4		100.00	7908(Q)
16.356	16.356 (0.000)	43	1511495			429.93- 529.93	143.20	
16.356	16.356 (0.000)	57	102023			0.00- 82.39	9.67	
34 Chloroform					CAS #: 67-66-3			
16.806	16.806 (1.005)	83	4500190	50.0	50.5		100.00	9616
16.806	16.806 (0.000)	85	875200			14.83- 114.83	19.45	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.799	16.799 (1.004)	42	2405545	50.0	51.3		100.00	7504
16.799	16.799 (0.000)	71	241958			0.00- 85.98	10.06	
16.799	16.799 (0.000)	72	261748			0.00- 88.92	10.88	
36 1,1,1-Trichlorethane					CAS #: 71-55-6			
17.096	17.096 (1.022)	97	4196466	50.0	50.3		100.00	9686
17.096	17.096 (0.000)	99	756288			13.21- 113.21	18.02	
37 Cyclohexane					CAS #: 110-82-7			
17.180	17.180 (1.027)	56	3841835	50.0	49.2		100.00	8272(Q)
17.180	17.180 (0.000)	84	788710			23.18- 123.18	20.53	
17.180	17.180 (0.000)	41	641134			9.49- 109.49	16.69	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.340	17.340 (1.036)	119	3578246	50.0	54.2		100.00	9392(Q)
17.340	17.340 (0.000)	117	1033272			50.73- 150.73	28.88	
40 Benzene					CAS #: 71-43-2			
17.615	17.615 (0.976)	78	7324878	50.0	52.1		100.00	9839
17.615	17.615 (0.000)	77	516399			0.00- 73.77	7.05	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.615	17.615 (0.976)	62	2868937	50.0	52.3		100.00	8224
17.615	17.615 (0.000)	64	271484			0.00- 82.15	9.46	
42 Heptane					CAS #: 142-82-5			
17.829	17.829 (0.988)	43	5134373	50.0	53.0		100.00	7655

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.829	17.829 (0.000)	57	801284			0.00- 98.73	15.61	
17.829	17.829 (0.000)	71	817856			0.00- 99.74	15.93	
44 Trichloroethene					CAS #: 79-01-6			
18.454	18.454 (1.022)	95	2840362	50.0	53.0		100.00	7785(Q)
18.454	18.454 (0.000)	130	741440			37.45- 137.45	26.10	
18.454	18.454 (0.000)	97	547904			14.62- 114.62	19.29	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.767	18.767 (1.040)	63	2517696	50.0	52.0		100.00	9708(Q)
18.767	18.767 (0.000)	62	548396			25.27- 125.27	21.78	
18.767	18.767 (0.000)	41	449275			11.67- 111.67	17.84	
46 1,4-Dioxane					CAS #: 123-91-1			
18.920	18.920 (1.048)	88	1461387	50.0	55.8		100.00	9858(AQ)
18.920	18.920 (0.000)	58	223968			24.84- 124.84	15.33	
18.920	18.920 (0.000)	57	71566			0.00- 73.91	4.90	
47 Bromodichloromethane					CAS #: 75-27-4			
19.110	19.110 (1.059)	83	4565385	50.0	53.7		100.00	9366
19.110	19.110 (0.000)	85	824145			12.86- 112.86	18.05	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.690	19.690 (1.091)	75	1859281	72.0	77.9		100.00	9626(A)
19.690	19.690 (0.000)	77	173332			0.00- 81.81	9.32	
19.690	19.690 (0.000)	39	311599			7.19- 107.19	16.76	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.812	19.812 (1.098)	43	5506136	50.0	52.6		100.00	9510
19.812	19.812 (0.000)	58	587107			0.00- 86.07	10.66	
19.812	19.812 (0.000)	85	201239			0.00- 62.36	3.65	
51 Toluene					CAS #: 108-88-3			
20.179	20.179 (1.118)	92	4680118	50.0	55.3		100.00	9841(AQ)
20.179	20.179 (0.000)	91	2398449			119.81- 219.81	51.25	
52 Octane					CAS #: 111-65-9			
20.156	20.156 (1.117)	57	2293983	50.0	57.7		100.00	8394(AQ)
20.156	20.156 (0.000)	85	799539			55.06- 155.06	34.85	
20.156	20.156 (0.000)	43	2093293			225.06- 325.06	91.25	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.407	20.407 (0.920)	75	470830	10.0	8.9		100.00	8420
20.407	20.407 (0.000)	77	40884			0.00- 81.39	8.68	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.697	20.697 (0.933)	97	2393999	50.0	50.1		100.00	9777(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.697	20.697 (0.000)	99	427328			12.62- 112.62	17.85	
20.697	20.697 (0.000)	83	593421			36.96- 136.96	24.79	
55 Tetrachloroethene					CAS #: 127-18-4			
20.964	20.964 (0.945)	166	2898508	50.0	53.8		100.00	9113(Q)
20.964	20.964 (0.000)	129	676928			27.81- 127.81	23.35	
20.964	20.964 (0.000)	131	653304			25.09- 125.09	22.54	
56 2-Hexanone					CAS #: 591-78-6			
20.926	20.926 (0.944)	43	6043587	50.0	53.5		100.00	8587
20.926	20.926 (0.000)	58	905243			0.23- 100.23	14.98	
20.926	20.926 (0.000)	100	165777			0.00- 59.20	2.74	
57 Dibromochloromethane					CAS #: 124-48-1			
21.315	21.315 (0.961)	129	3471869	50.0	53.2		100.00	8383
21.315	21.315 (0.000)	208	42200			0.00- 54.50	1.22	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.537	21.537 (0.971)	107	3220692	50.0	51.1		100.00	9715(Q)
21.537	21.537 (0.000)	109	811328			44.77- 144.77	25.19	
60 Chlorobenzene					CAS #: 108-90-7			
22.223	22.223 (1.002)	112	5538471	50.0	52.7		100.00	9732
22.223	22.223 (0.000)	114	454016			0.00- 81.49	8.20	
22.223	22.223 (0.000)	77	894267			12.02- 112.02	16.15	
61 Ethyl Benzene					CAS #: 100-41-4			
22.307	22.307 (1.006)	106	3615296	50.0	55.3		100.00	(AH)
22.307	22.307 (1.006)	91	12466061			294.81- 394.81	344.81	
62 m,p-Xylene					CAS #: 108-38-3			
22.467	22.467 (1.013)	106	7426675	100	117		100.00	(AMH)
22.467	22.467 (1.013)	91	15592489			159.95- 259.95	209.95	
63 o-Xylene					CAS #: 95-47-6			
23.131	23.131 (1.043)	106	2164951	50.0	55.0		100.00	9648(Q)
23.131	23.131 (0.000)	91	1273533			172.76- 272.76	58.83	
64 Styrene					CAS #: 100-42-5			
23.139	23.139 (1.043)	104	4732013	50.0	57.3		100.00	9848(A)
23.139	23.139 (0.000)	78	611411			0.00- 99.15	12.92	
65 Bromoform					CAS #: 75-25-2			
23.566	23.566 (1.063)	171	1780432	50.0	56.5		100.00	8671(AQ)
23.566	23.566 (0.000)	173	834752			140.99- 240.99	46.88	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.184	24.184 (1.090)	83	4761453	50.0	49.1		100.00	9854

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.184	24.184 (0.000)	85	711269			14.86- 114.86	14.94	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.603	24.603 (1.109)	105	7219379	50.0	54.5		100.00	9317(M)
24.603	24.603 (1.109)	120	1852134	50.0	54.4	0.00- 75.68	25.66	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.113)	105	3468244	50.0	54.6		100.00	8878(QM)
24.687	24.687 (1.113)	120	1601173	50.0	54.7	151.38- 251.38	46.17	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.450	25.450 (1.148)	105	2848745	50.0	55.2		100.00	8855(A)
25.450	25.450 (0.000)	120	273320			0.00- 91.92	9.59	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.183	26.183 (1.181)	146	3646376	50.0	55.8		100.00	(A)
26.183	26.183 (1.181)	148	2319944			13.62- 113.62	63.62	
26.183	26.183 (1.181)	111	1641694			0.00- 95.02	45.02	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.358	26.358 (1.189)	146	3547527	50.0	55.7		100.00	(A)
26.358	26.358 (1.189)	148	2261358			13.74- 113.74	63.74	
26.358	26.358 (1.189)	111	1541648			0.00- 93.46	43.46	
74 Benzyl Chloride					CAS #: 100-44-7			
26.602	26.602 (1.200)	91	7064075	50.0	57.5		100.00	9318(A)
26.602	26.602 (0.000)	126	248896			0.00- 67.08	3.52	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.236	27.236 (1.228)	146	3170440	50.0	54.3		100.00	9825(Q)
27.236	27.236 (0.000)	148	396619			13.87- 113.87	12.51	
27.236	27.236 (0.000)	111	287881			0.00- 96.36	9.08	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.622	31.622 (1.426)	180	1509428	50.0	61.1		100.00	9804(AQ)
31.622	31.622 (0.000)	182	225280			43.82- 143.82	14.92	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.065	32.065 (1.446)	225	1426605	50.0	54.8		100.00	9721(Q)
32.065	32.065 (0.000)	223	152102			13.56- 113.56	10.66	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010909.d
Report Date: 09-Jan-1997 13:20

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

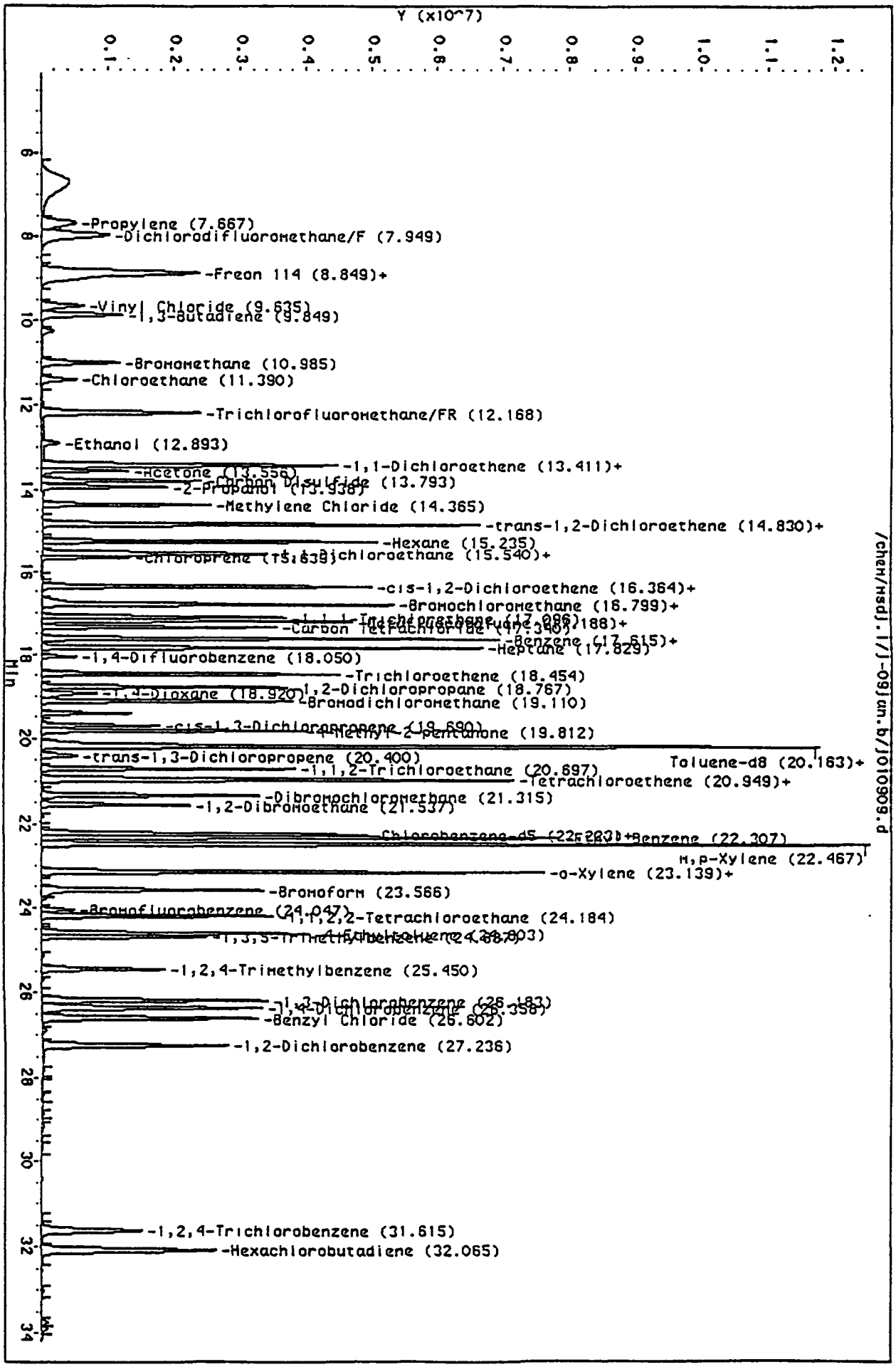
Instrument ID: msdj.i
Lab File ID: j010909.d
Lab Smp Id: VSTD050
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD050
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	178952	-6.85
43 1,4-Difluorobenzene	832855	499713	1165997	733906	-11.88
59 Chlorobenzene-d5	625059	375035	875083	614884	-1.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.73	0.23
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.05	0.09
59 Chlorobenzene-d5	22.16	21.66	22.66	22.18	0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: /chem/msdj.i/j-09jan.b/j010909.d
Date : 09-JAN-97 12:48
Client ID: VSTD050
Sample Info: 250.0ml #296-25 100ppbv (50.0ppbv)

Column phase: RTx-624

Instrument: msdj.i

Operator: FA
Column diameter: 0.58

Acetone out MH 2/28/97

0120

Data File: /chem/msdj.i/j-28feb.b/j022804.d
Report Date: 28-Feb-1997 14:40

Air Toxics Limited

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdj.i
Lab File ID: j022804.d
Analysis Type: AIR
Lab Sample ID:
Method File: /chem/msdj.i/j-28feb.b/to140109.m

Injection Date: 28-FEB-1997 13:04
Init. Calibration Date(s): JAN/09/97 JAN/09/97
Init. Calibration Times: 10:44 12:48
Quant Type: ISTD

REVIEWED BY
MAR
FRANCISCO AYALA

COMPOUND	$\overline{RRF}$	RF5	MIN RRF	%D	MAX %D	
$ 35 Octafluorotoluene	2.317	1.904	0.010	17.8	30.0	
$ 49 Toluene-d8	0.905	0.910	0.010	0.6	30.0	
$ 65 Bromofluorobenzene	0.774	0.697	0.010	9.9	30.0	
16 Acetone	1.980	2.928	0.010	47.9	40.0	<- Q_3
17 Carbon Disulfide	3.780	4.140	0.010	9.5	40.0	
20 Methylene Chloride	1.147	1.271	0.010	10.8	30.0	
21 trans-1,2-Dichloroethene	1.275	1.387	0.010	8.8	40.0	
28 2-Butanone	0.552	0.699	0.010	26.8	40.0	
29 cis-1,2-Dichloroethene	1.350	1.581	0.010	17.1	30.0	
33 1,1,1-Trichlorethane	2.330	2.789	0.010	19.7	30.0	
37 Benzene	0.957	1.123	0.010	17.3	30.0	
38 1,2-Dichloroethane	0.374	0.455	0.010	21.9	30.0	
41 Trichloroethene	0.365	0.420	0.010	15.1	30.0	
43 1,2-Dichloropropane	0.330	0.420	0.010	27.4	30.0	
51 Toluene	0.577	0.658	0.010	14.0	30.0	
55 Tetrachloroethene	0.438	0.497	0.010	13.5	30.0	
59 Chlorobenzene	0.854	0.998	0.010	16.9	30.0	
60 Ethyl Benzene	0.532	0.573	0.010	7.7	30.0	
61 m,p-Xylene	0.518	0.493	0.010	4.8	30.0	
62 o-Xylene	0.320	0.310	0.010	3.3	30.0	
63 Styrene	0.671	0.606	0.010	9.7	30.0	

Data File: /chem/msdj.i/j-28feb.b/j022804.d
Report Date: 28-Feb-1997 14:41

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-28feb.b/j022804.d
Lab Smp Id: Client Smp ID: Method Spike
Inj Date : 28-FEB-1997 13:04
Operator : MH Inst ID: msdj.i
Smp Info : #296-71 TO14Std. 25ml (5ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-28feb.b/to140109.m
Meth Date : 28-Feb-1997 14:41 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.408	16.358 (1.000)	130	246183	5.0			100.00	9089(Q)
16.408	16.358 (0.000)	128	56707			27.69- 127.69	23.03	
16.408	16.358 (0.000)	49	145664			149.56- 249.56	59.17	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.942	16.892 (1.033)	217	468690	5.0	4.1		100.00	7485
16.942	16.892 (0.000)	186	96640			14.61- 114.61	20.62	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.751	17.700 (1.000)	114	1105494	5.0			100.00	9224
17.751	17.700 (0.000)	88	63576			0.00- 68.88	5.75	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.773	19.730 (1.114)	98	1006293	5.0	5.0		100.00	9855
19.773	19.730 (0.000)	70	40814			0.00- 63.82	4.06	
19.773	19.730 (0.000)	100	191806			14.95- 114.95	19.06	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.848	21.790 (1.000)	117	900467	5.0			100.00	9853
21.848	21.790 (0.000)	82	148928			13.86- 113.86	16.54	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
65 Bromofluorobenzene					CAS #: 460-00-4			
23.686	23.621 (1.084)	95	627862	5.0	4.5		100.00	8009
23.686	23.621 (0.000)	174	84152			5.46- 105.46	13.40	
23.686	23.621 (0.000)	176	79600			7.57- 107.57	12.68	
16 Acetone					CAS #: 67-64-1			
13.128	13.092 (0.800)	43	720890	5.0	7.4		100.00	(M)
13.120	13.092 (0.800)	58	214295			0.00- 79.57	29.73	
17 Carbon Disulfide					CAS #: 75-15-0			
13.234	13.207 (0.807)	76	1019149	5.0	5.5		100.00	8100
20 Methylene Chloride					CAS #: 75-09-2			
13.967	13.932 (0.851)	84	312818	5.0	5.5		100.00	9626(Q)
13.967	13.932 (0.000)	49	153214			108.05- 208.05	48.98	
13.967	13.932 (0.000)	51	47150			0.00- 96.86	15.07	
21 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.455	14.420 (0.881)	96	341409	5.0	5.4		100.00	8261(Q)
14.455	14.420 (0.000)	61	183296			122.83- 222.83	53.69	
14.455	14.420 (0.000)	98	63872			13.58- 113.58	18.71	
28 2-Butanone					CAS #: 78-93-3			
16.042	15.991 (0.978)	72	172177	5.0	6.3		100.00	7898(Q)
16.042	15.991 (0.000)	43	242676			469.65- 569.65	140.95	
16.042	15.991 (0.000)	57	15825			0.00- 83.89	9.19	
29 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.050	16.007 (0.978)	96	389195	5.0	5.8		100.00	8239(Q)
16.050	16.007 (0.000)	61	181624			106.97- 206.97	46.67	
16.050	16.007 (0.000)	98	73904			13.87- 113.87	18.99	
33 1,1,1-Trichlorethane					CAS #: 71-55-6			
16.774	16.724 (1.022)	97	686576	5.0	6.0		100.00	7475
16.774	16.724 (0.000)	99	133504			15.93- 115.93	19.44	
37 Benzene					CAS #: 71-43-2			
17.293	17.250 (0.974)	78	1241438	5.0	5.9		100.00	8193
17.293	17.250 (0.000)	77	86189			0.00- 74.19	6.94	
38 1,2-Dichloroethane					CAS #: 107-06-2			
17.308	17.258 (0.975)	62	503547	5.0	6.1		100.00	6319
17.308	17.258 (0.000)	64	44646			0.00- 80.62	8.87	
41 Trichloroethene					CAS #: 79-01-6			
18.148	18.097 (1.022)	95	464421	5.0	5.8		100.00	8794(Q)
18.148	18.097 (0.000)	130	115192			34.34- 134.34	24.80	
18.148	18.097 (0.000)	97	87800			14.29- 114.29	18.91	

Data File: /chem/msdj.i/j-28feb.b/j022804.d
Report Date: 28-Feb-1997 14:41

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
43 1,2-Dichloropropane					CAS #: 78-87-5			
18.460	18.410 (1.040)	63	463886	5.0	6.4		100.00	8653(Q)
18.460	18.410 (0.000)	62	103169			24.97- 124.97	22.24	
18.460	18.410 (0.000)	41	87061			11.72- 111.72	18.77	
51 Toluene					CAS #: 108-88-3			
19.872	19.821 (1.119)	92	726956	5.0	5.7		100.00	8681(Q)
19.872	19.821 (0.000)	91	359060			112.85- 212.85	49.39	
55 Tetrachloroethene					CAS #: 127-18-4			
20.650	20.607 (0.945)	166	447582	5.0	5.7		100.00	8934(Q)
20.650	20.607 (0.000)	129	110800			36.02- 136.02	24.76	
20.650	20.607 (0.000)	131	106072			32.35- 132.35	23.70	
59 Chlorobenzene					CAS #: 108-90-7			
21.886	21.835 (1.002)	112	898833	5.0	5.8		100.00	9120
21.886	21.835 (0.000)	114	71720			0.00- 81.98	7.98	
21.886	21.835 (0.000)	77	153435			16.60- 116.60	17.07	
60 Ethyl Benzene					CAS #: 100-41-4			
21.977	21.919 (1.006)	106	515692	5.0	5.4		100.00	
21.977	21.919 (1.006)	91	1820440			296.25- 396.25	353.01	
61 m,p-Xylene					CAS #: 108-38-3			
22.130	22.080 (1.013)	106	888192	10.0	9.5		100.00	
22.138	22.080 (1.013)	91	1934416			164.96- 264.96	217.79	
62 o-Xylene					CAS #: 95-47-6			
22.786	22.736 (1.043)	106	278937	5.0	4.8		100.00	7751(Q)
22.786	22.736 (0.000)	91	164479			172.75- 272.75	58.97	
63 Styrene					CAS #: 100-42-5			
22.794	22.743 (1.043)	104	545724	5.0	4.5		100.00	8621
22.794	22.743 (0.000)	78	73150			2.57- 102.57	13.40	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.

Data File: /chem/msdj.i/j-28feb.b/j022804.d
Report Date: 28-Feb-1997 14:41

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j022804.d
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-28feb.b/to140109.m
Misc Info:

Calibration Date: 02/28/97
Calibration Time: 1304
Client Smp ID: Method Spike
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	246183	147710	344656	246183	0.00
40 1,4-Difluorobenzene	1105494	663296	1547692	1105494	0.00
58 Chlorobenzene-d5	900467	540280	1260654	900467	0.00

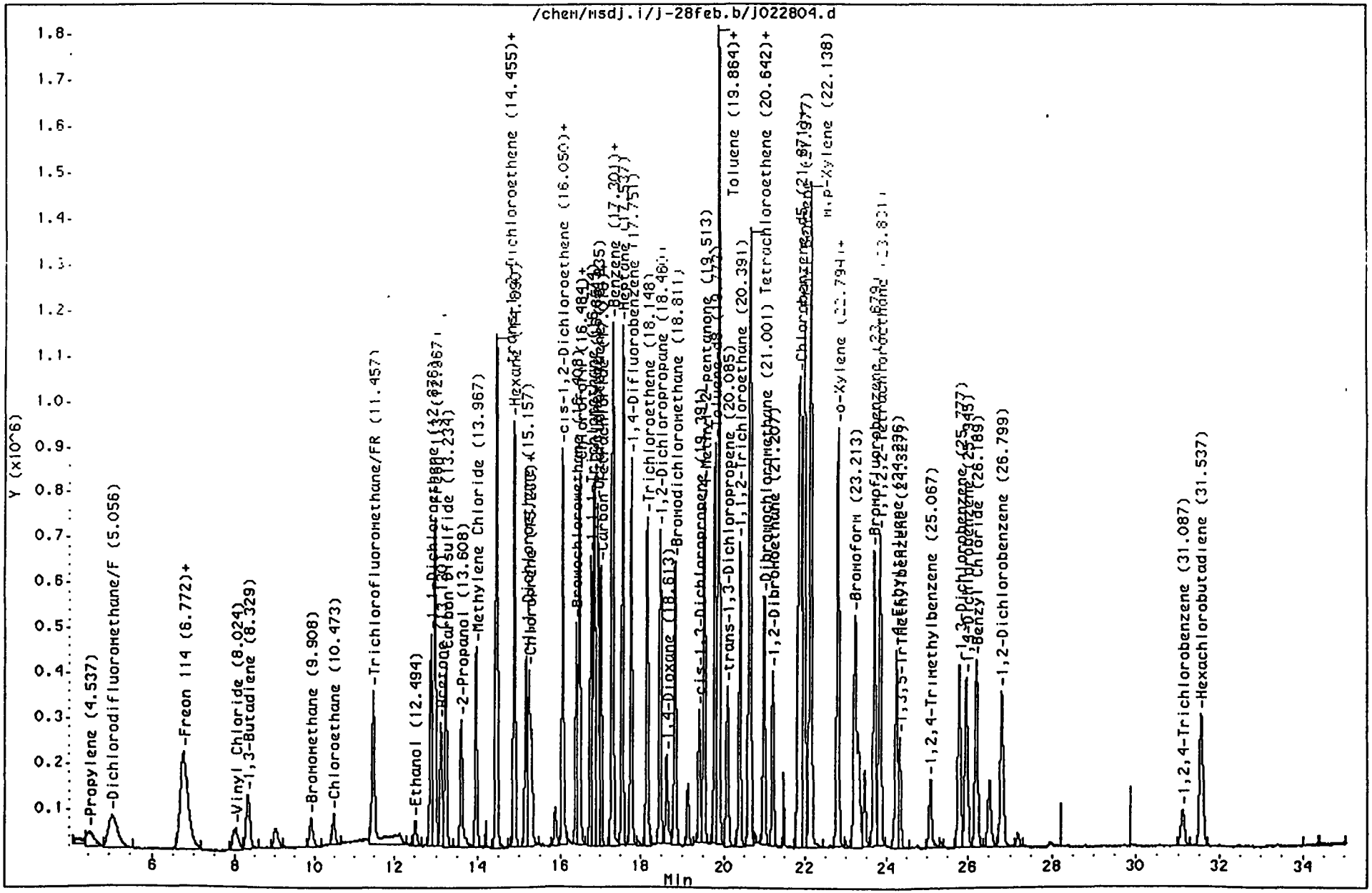
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	16.41	15.91	16.91	16.41	0.00
40 1,4-Difluorobenzene	17.75	17.25	18.25	17.75	0.00
58 Chlorobenzene-d5	21.85	21.35	22.35	21.85	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdj.i/j-28feb.b/j022804.d
Date : 28-FEB-1997 13:04
Client ID: Method Spike
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

Instrument: msdj.i
Operator: MH
Column diameter: 0.58

Column phase: RTx-624



Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

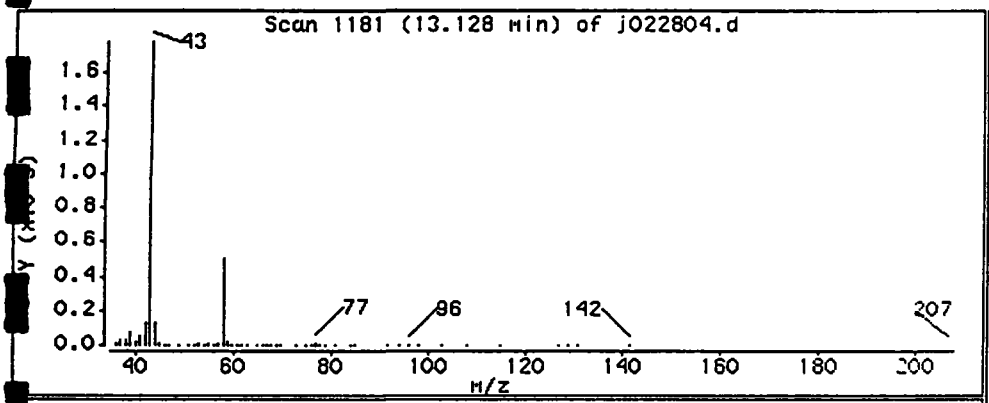
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

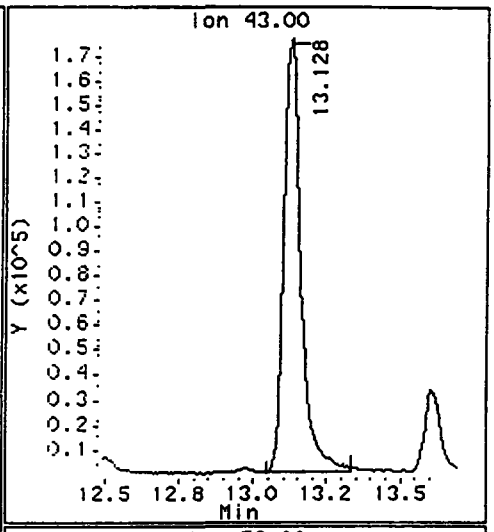
Operator: MH

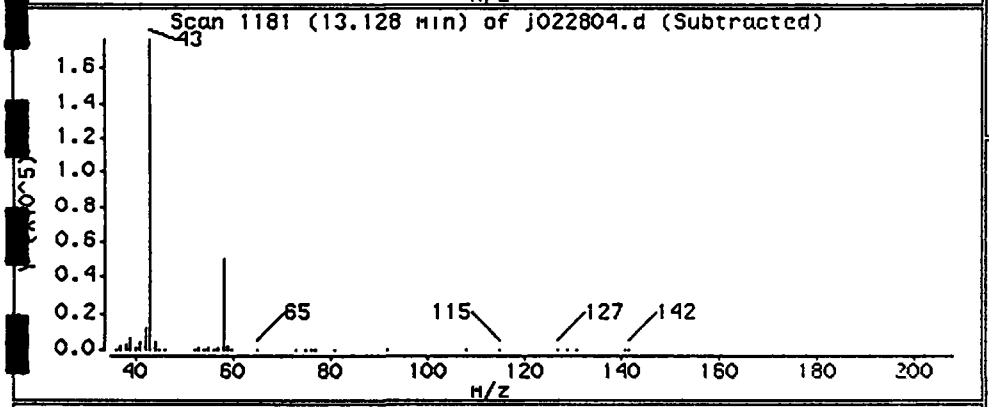
Column phase: RTx-624

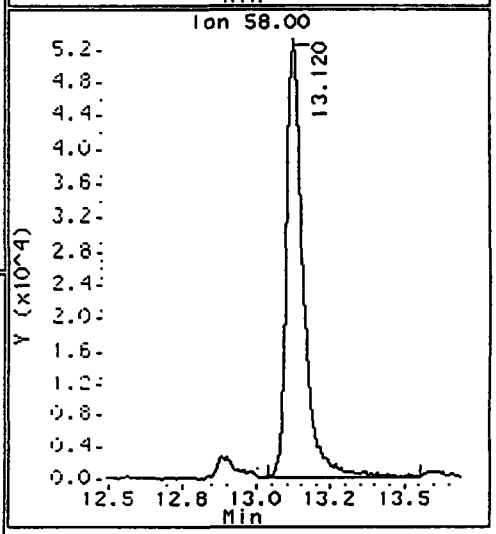
Column diameter: 0.58

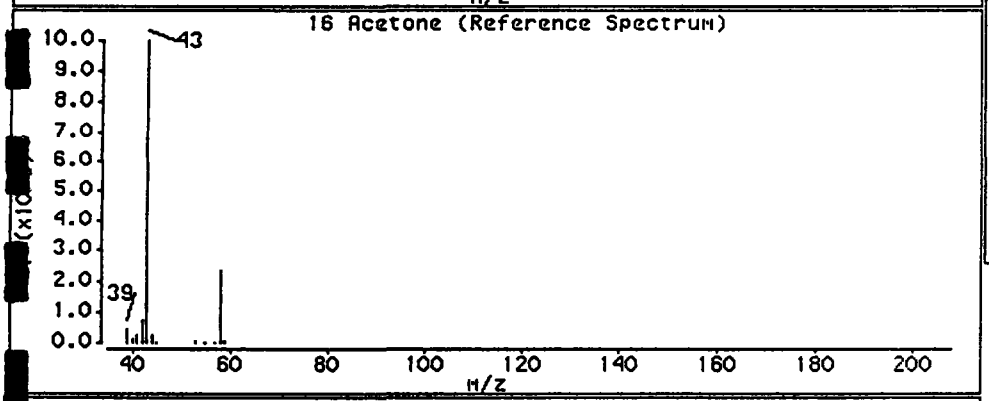
16 Acetone

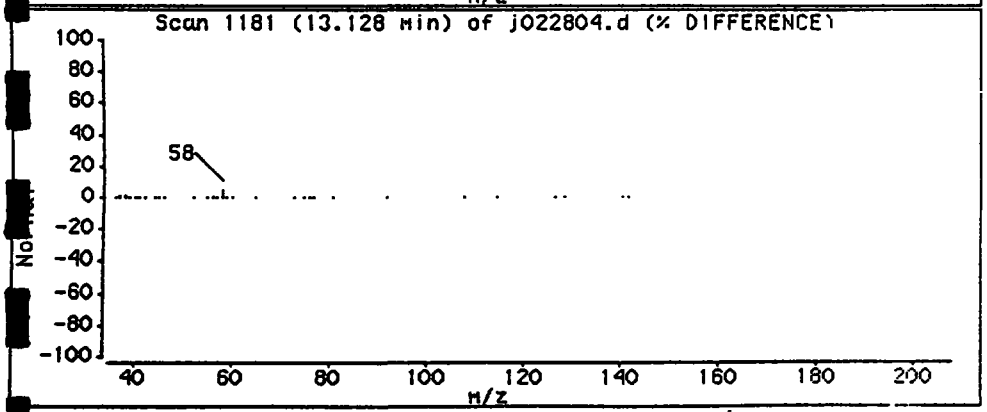












Data File: /chem/msdj.i/j-28feb.b/j022804.d

Page 7

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

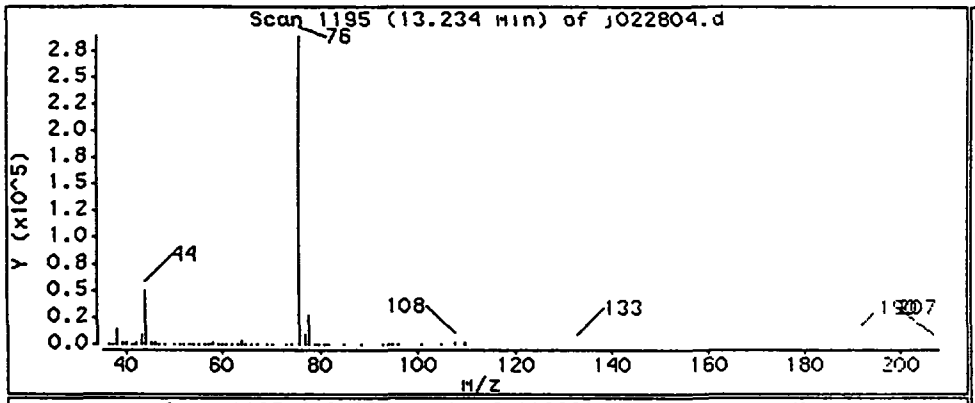
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

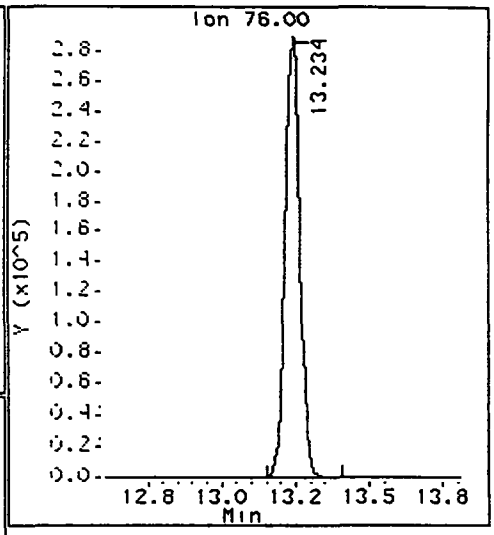
Operator: MH

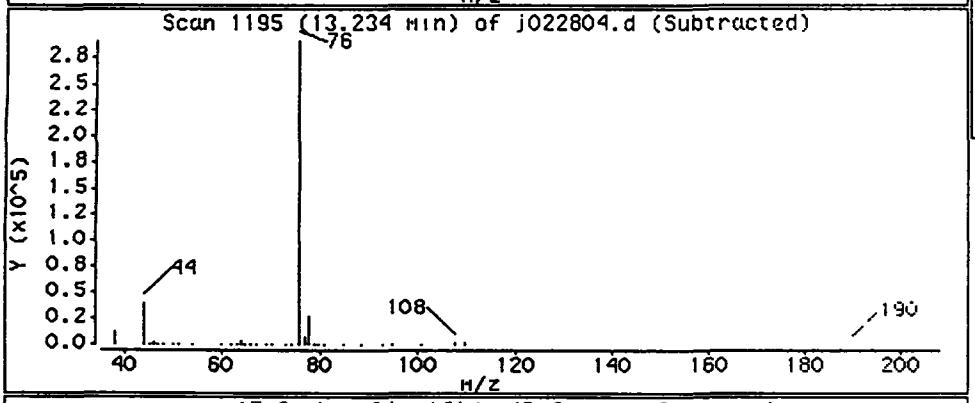
Column phase: RTx-624

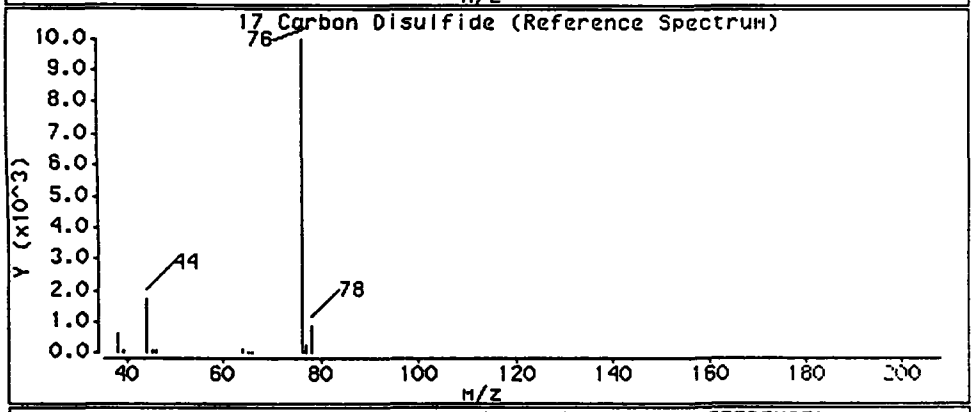
Column diameter: 0.58

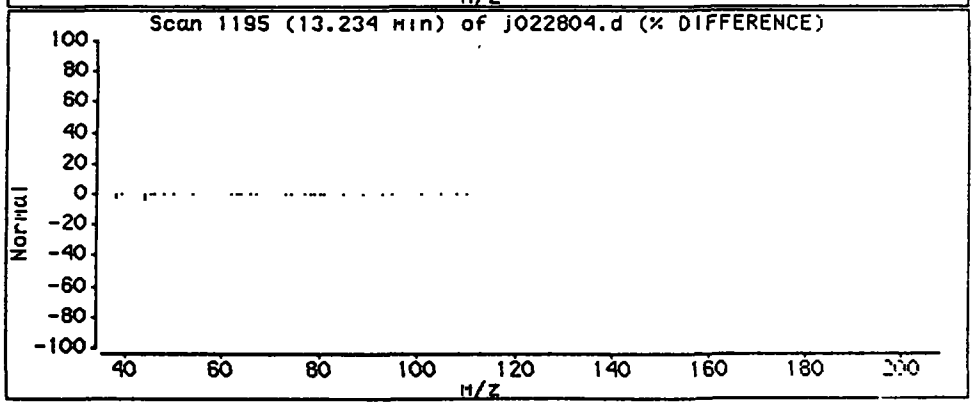
17 Carbon Disulfide











Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

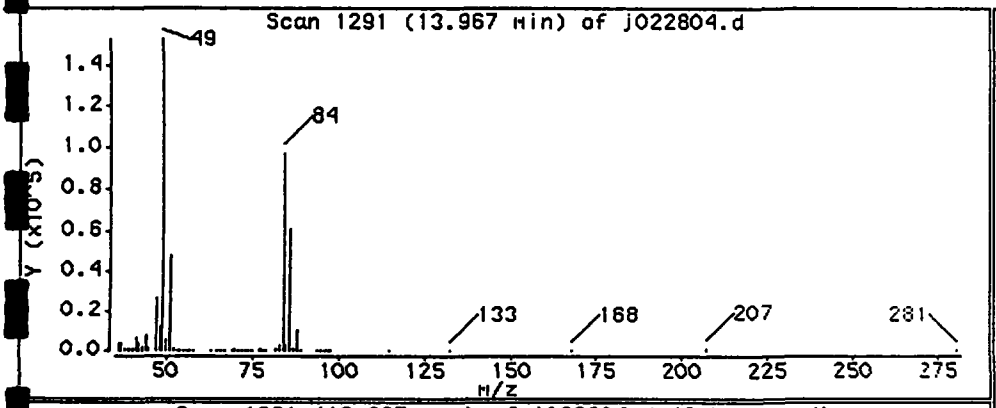
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

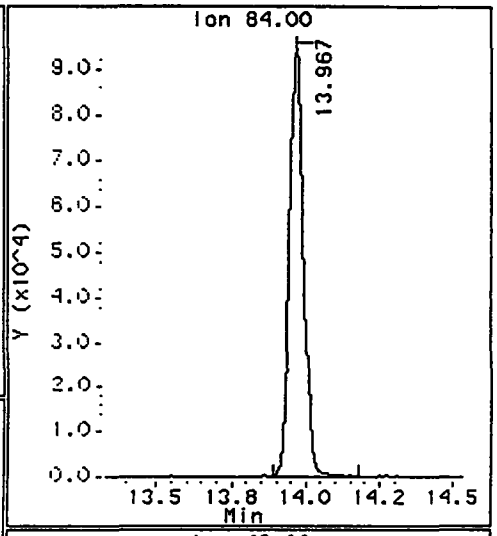
Operator: MH

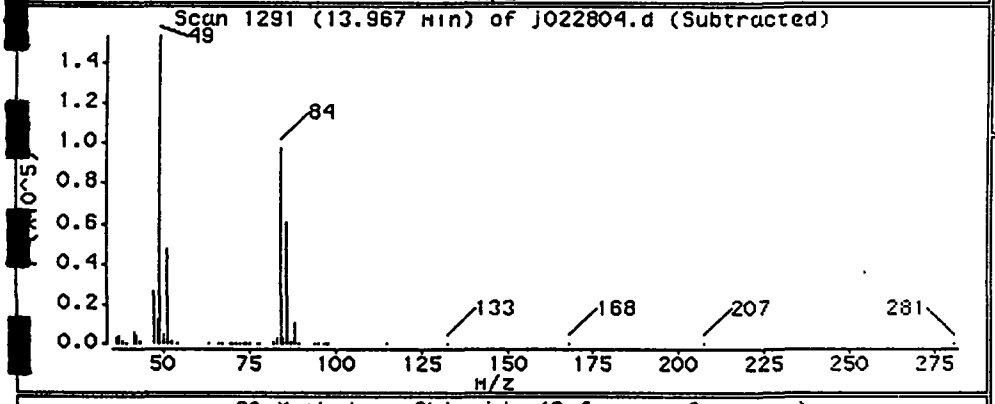
Column phase: RTx-624

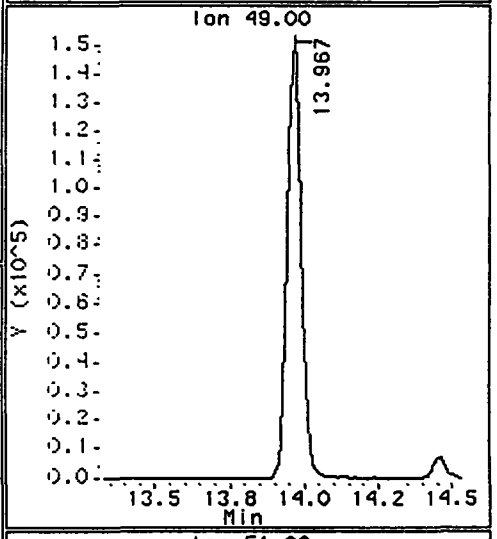
Column diameter: 0.58

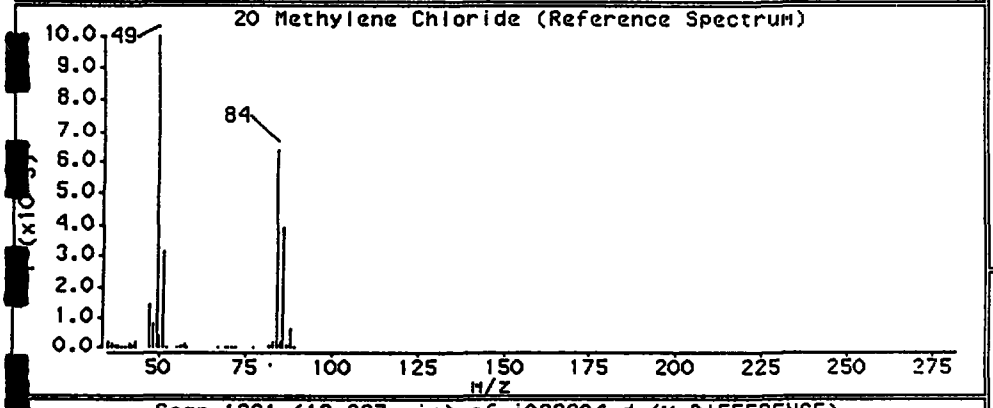
20 Methylene Chloride

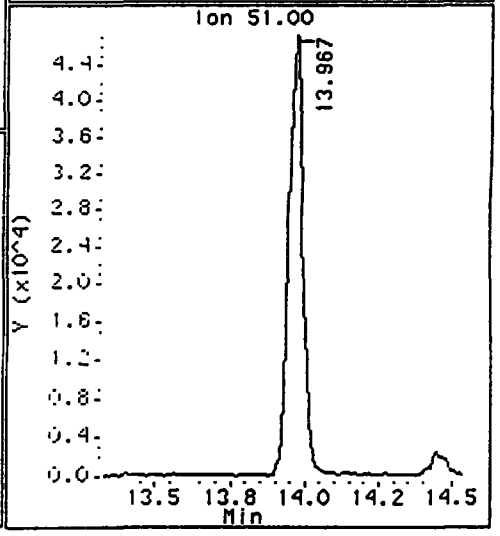


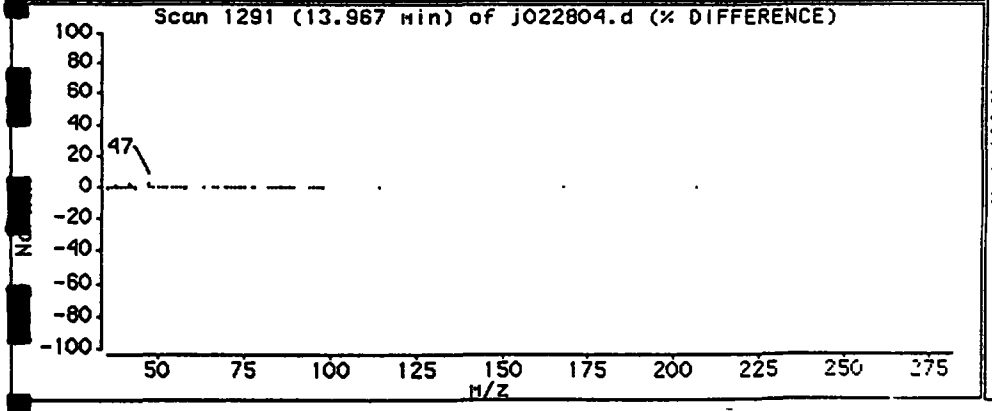












Data File: /chem/msdj.i/j-28feb.b/j022804.d

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Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

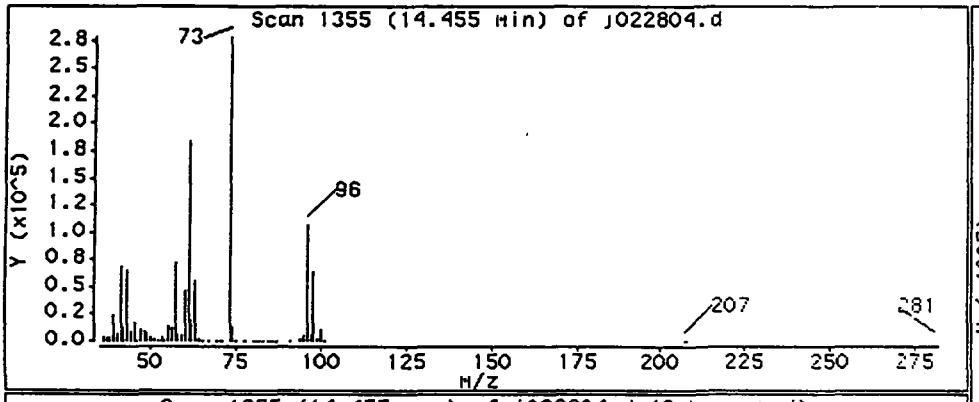
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

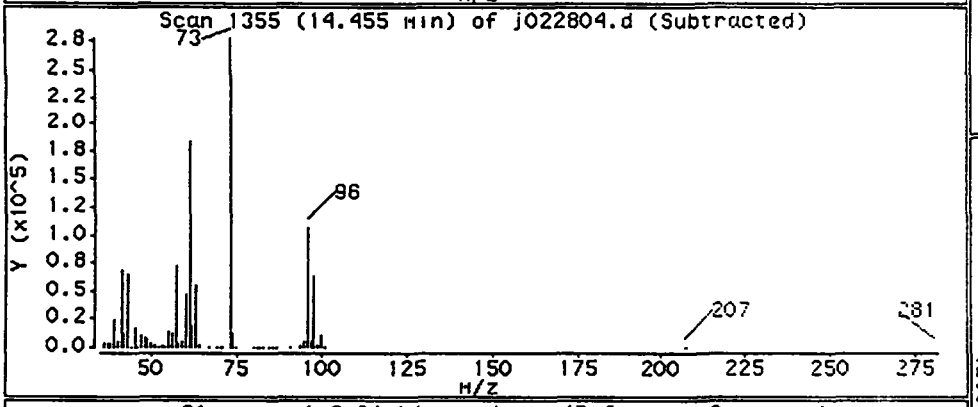
Operator: MH

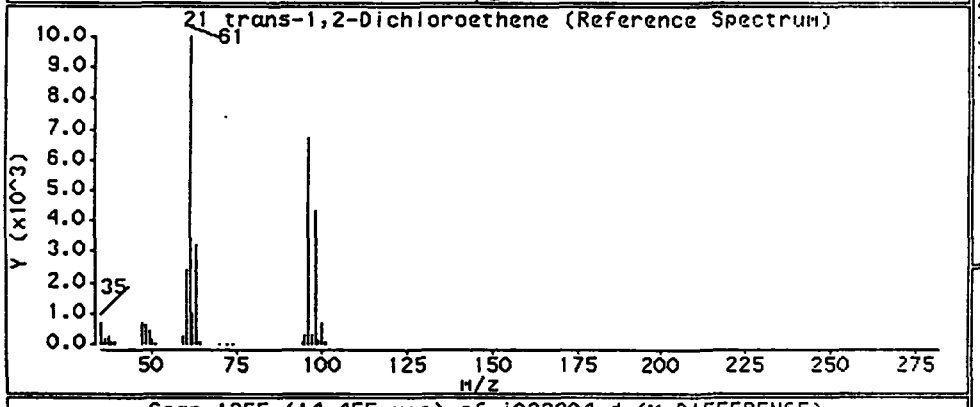
Column phase: RTx-624

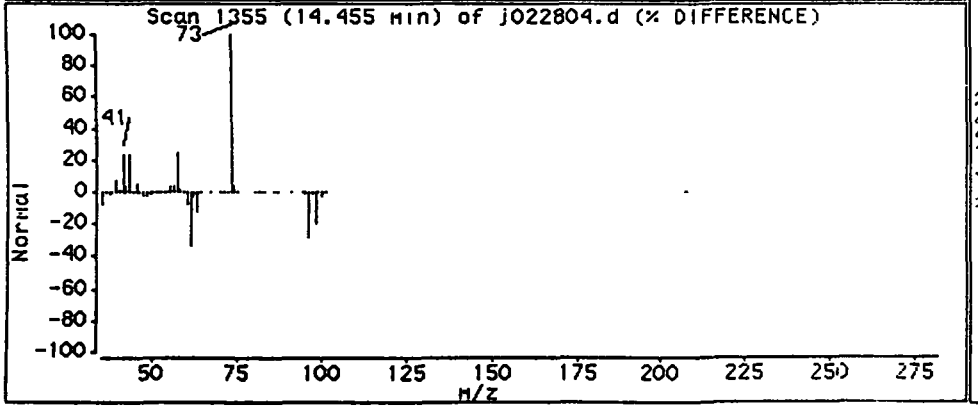
Column diameter: 0.58

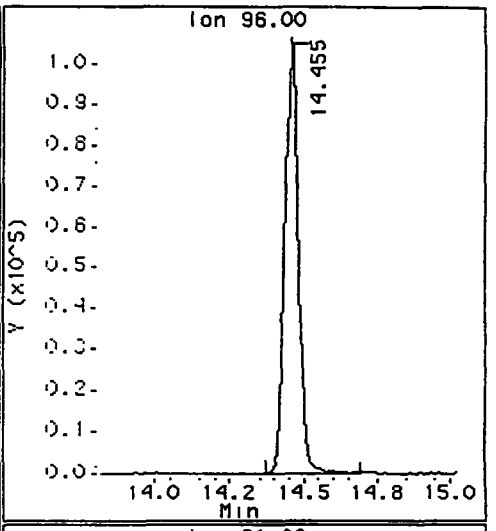
21 trans-1,2-Dichloroethene

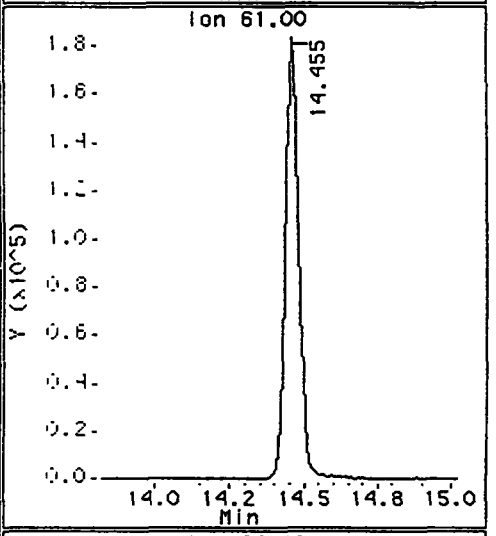


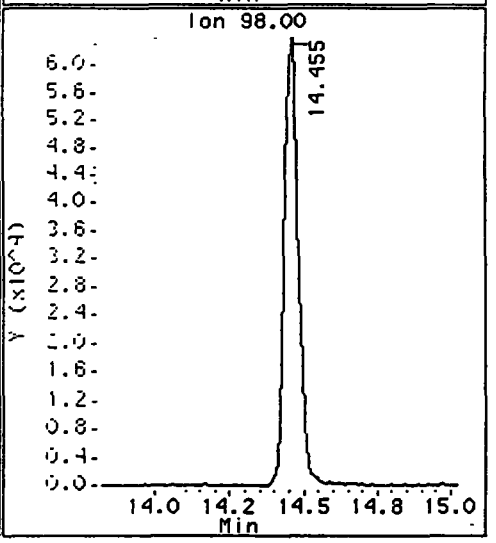












Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

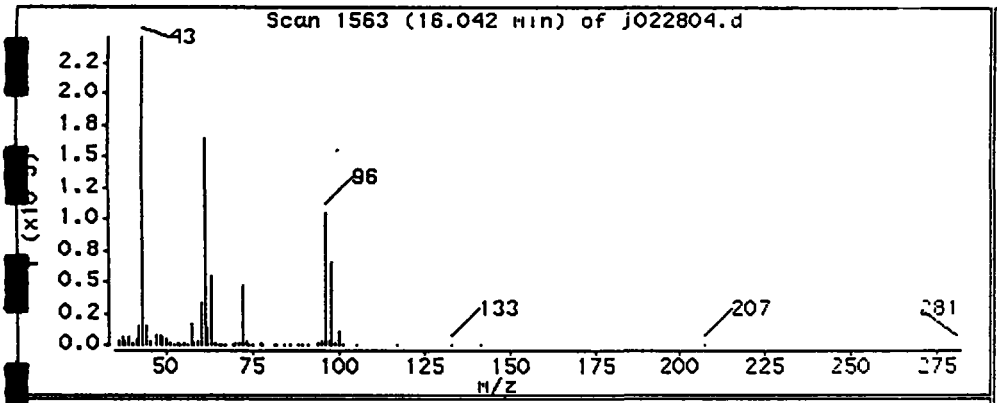
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

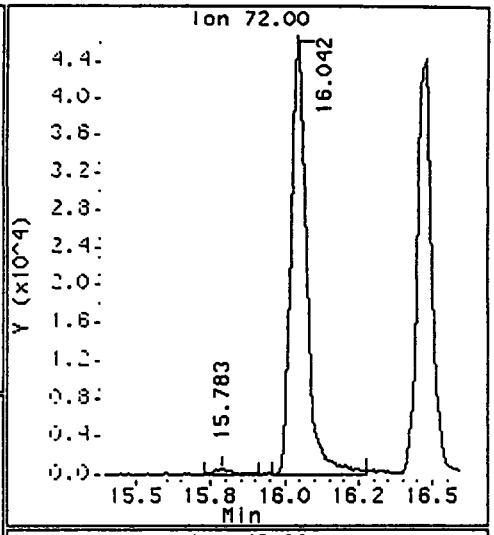
Operator: MH

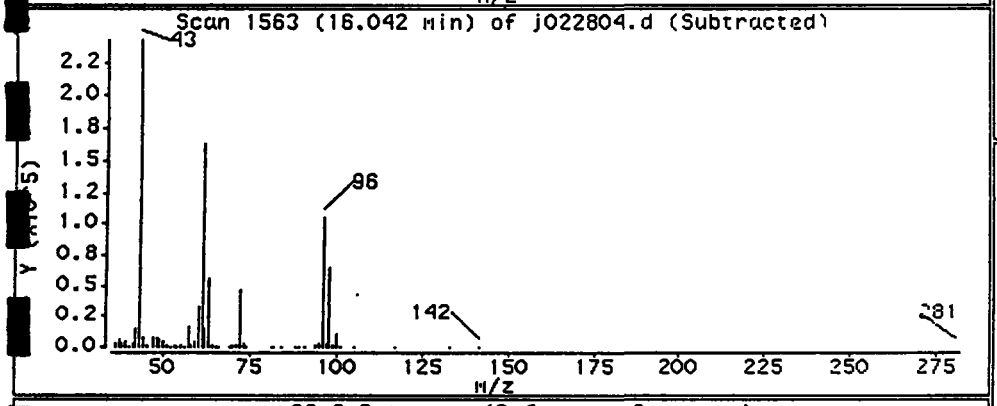
Column phase: RTx-624

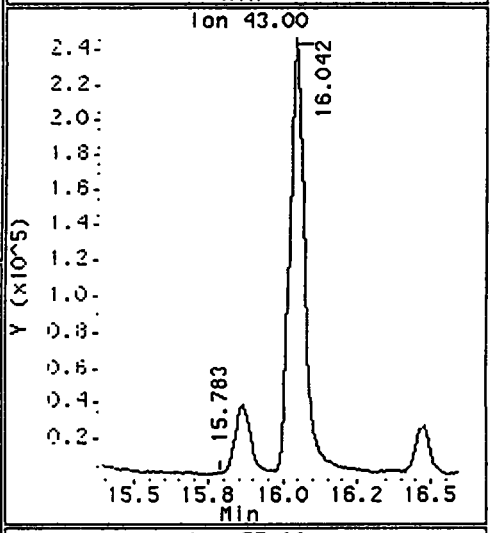
Column diameter: 0.58

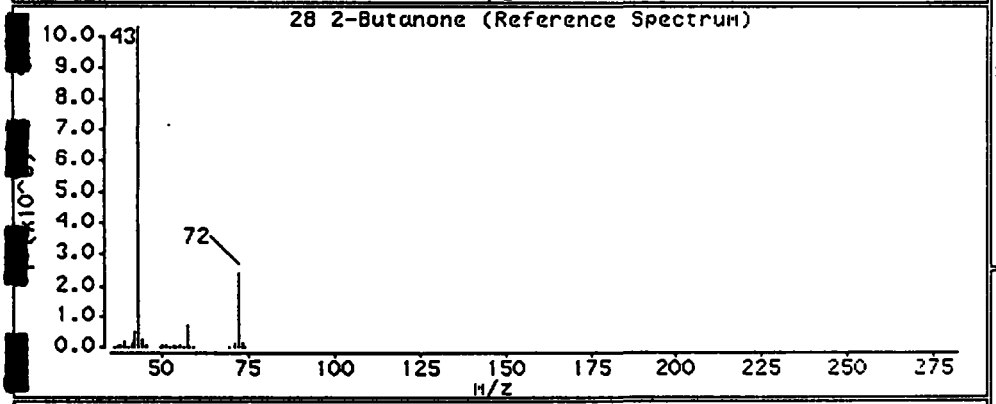
28 2-Butanone

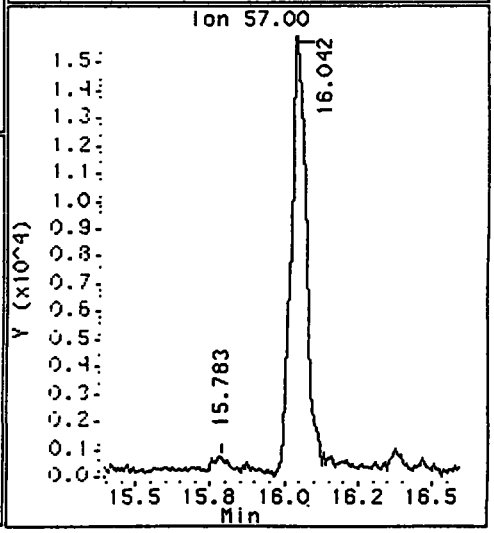


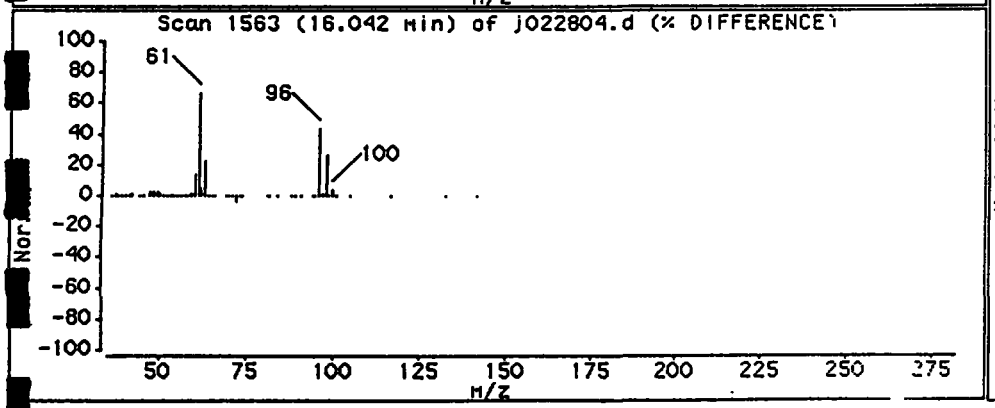












Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

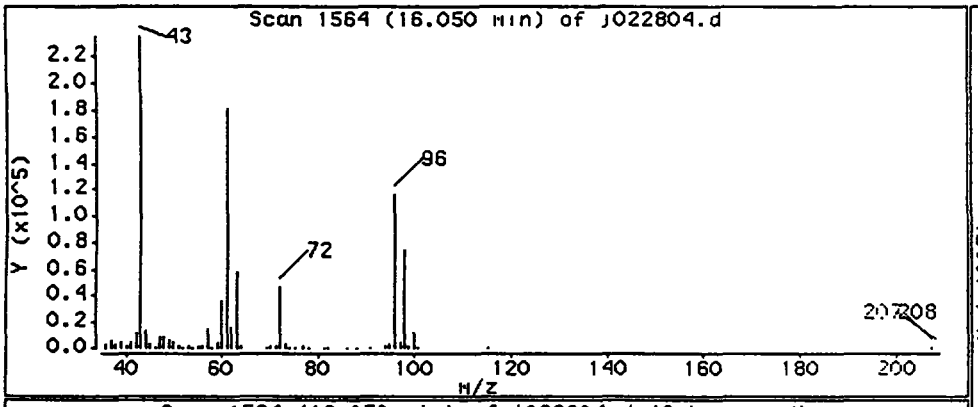
Sample Info: #296-71 T014Std. 25ml (5ppbv)

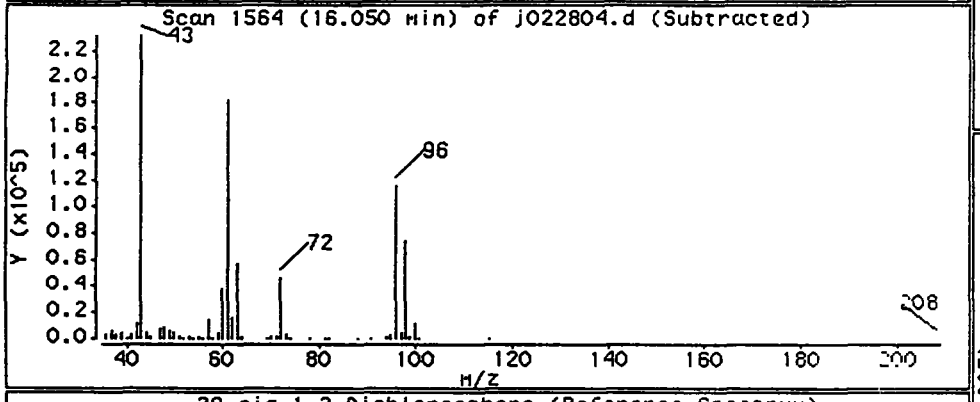
Operator: MH

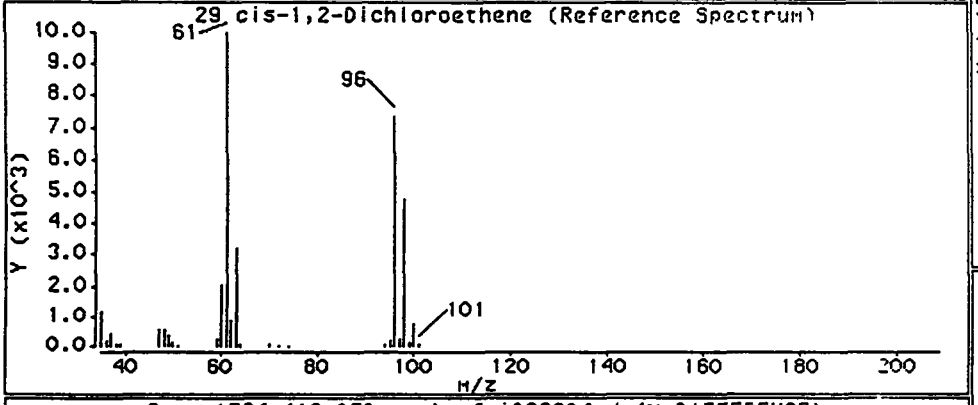
Column phase: RTx-624

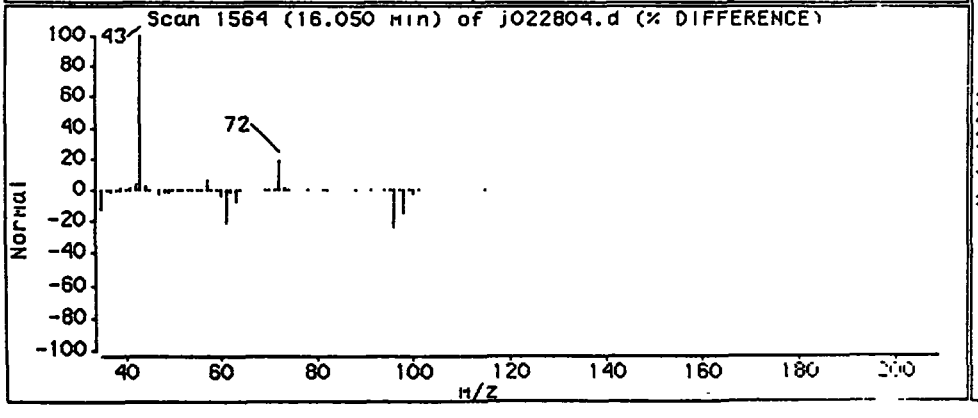
Column diameter: 0.58

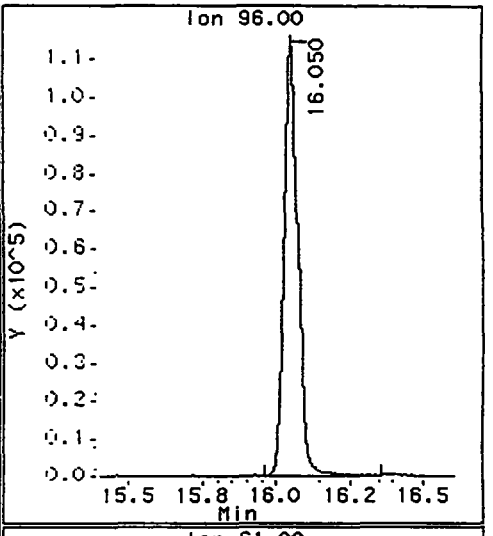
29 cis-1,2-Dichloroethene

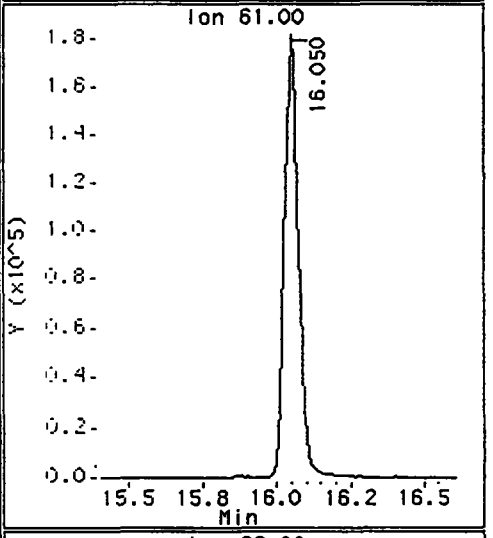


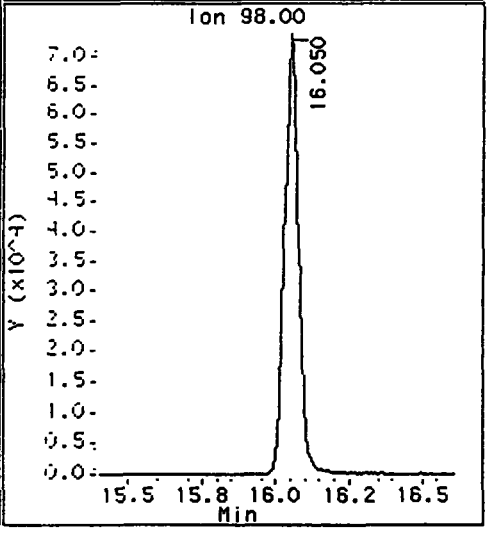












Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

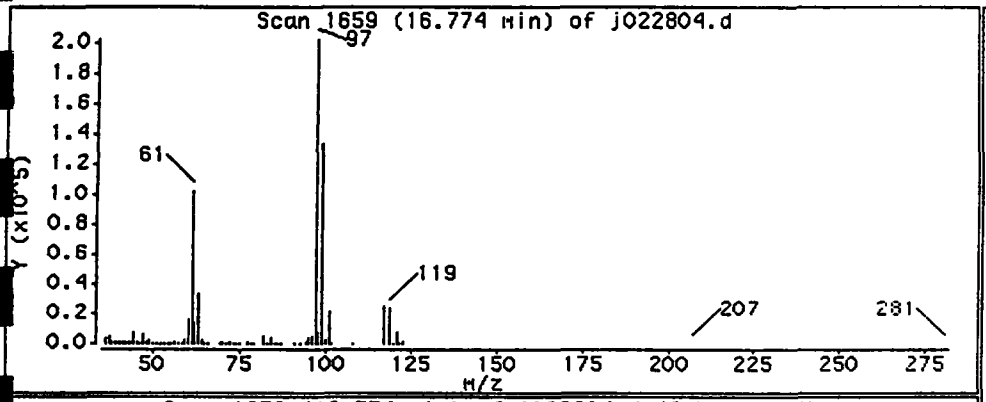
Sample Info: #296-71 T014Std. 25ml (5ppbv)

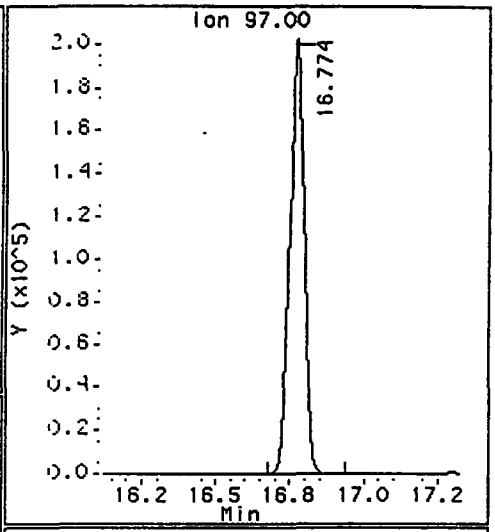
Operator: MH

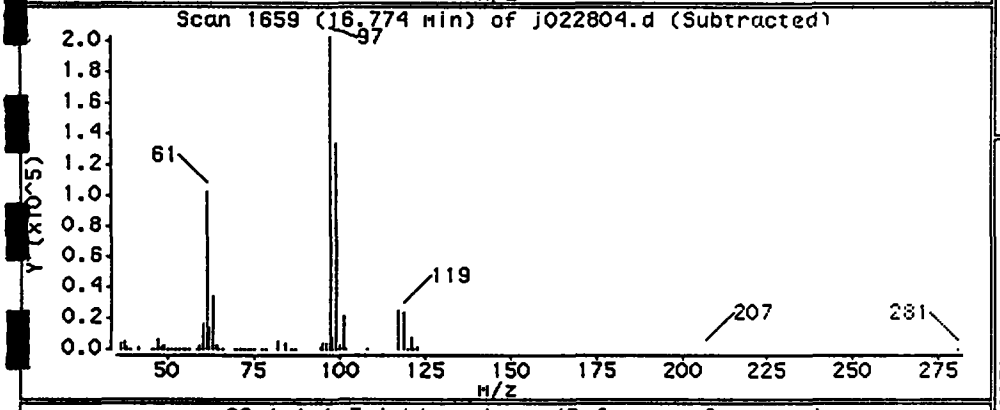
Column phase: RTx-624

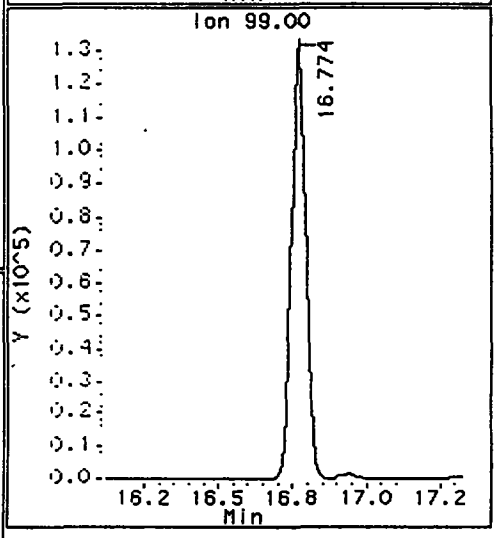
Column diameter: 0.58

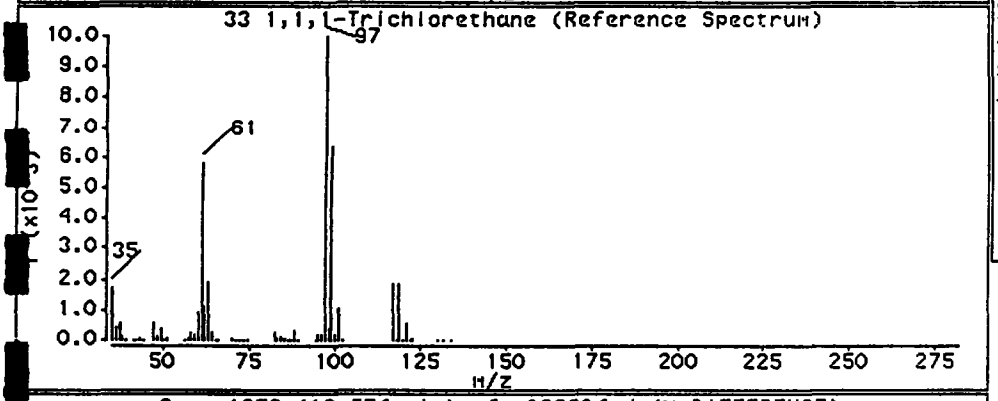
33 1,1,1-Trichlorethane

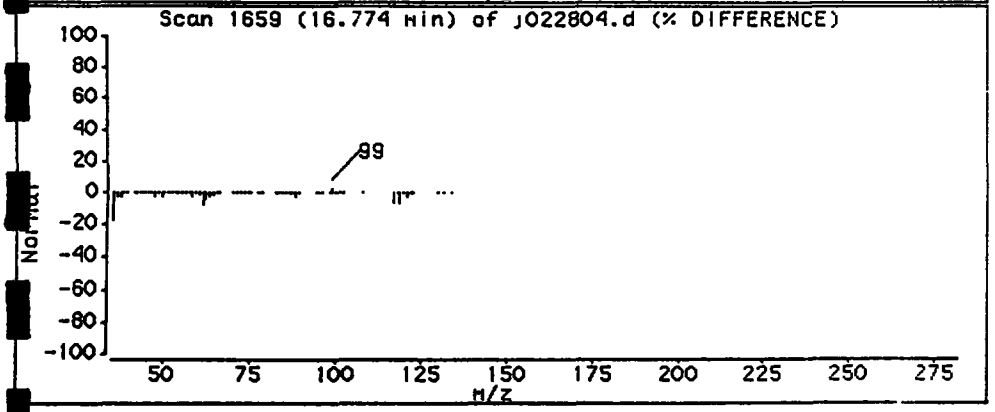












Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

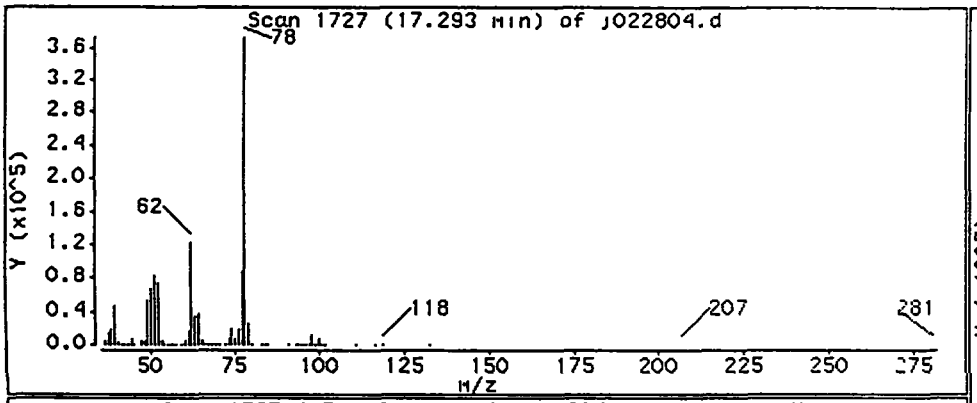
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

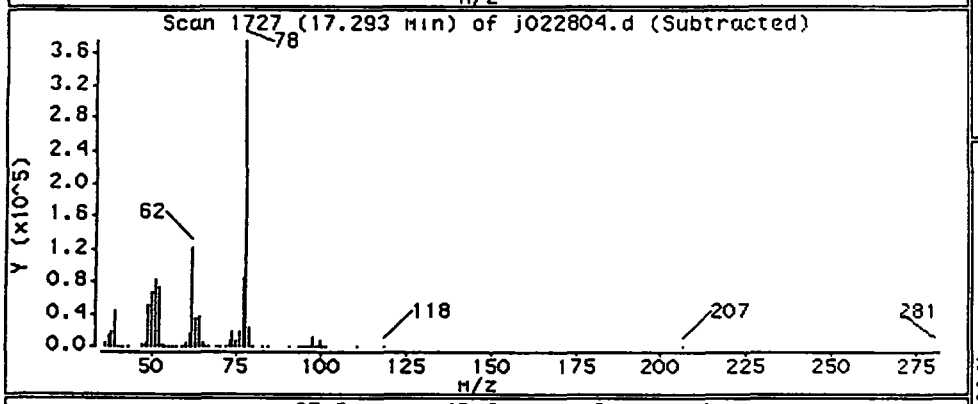
Operator: MH

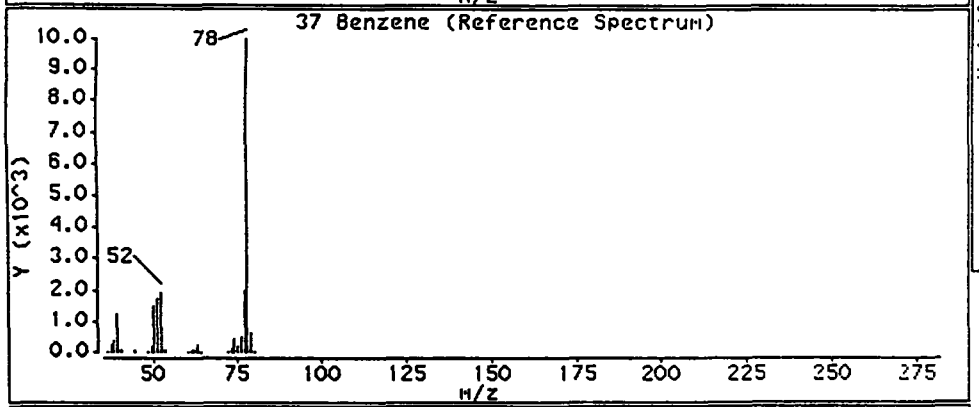
Column phase: RTx-624

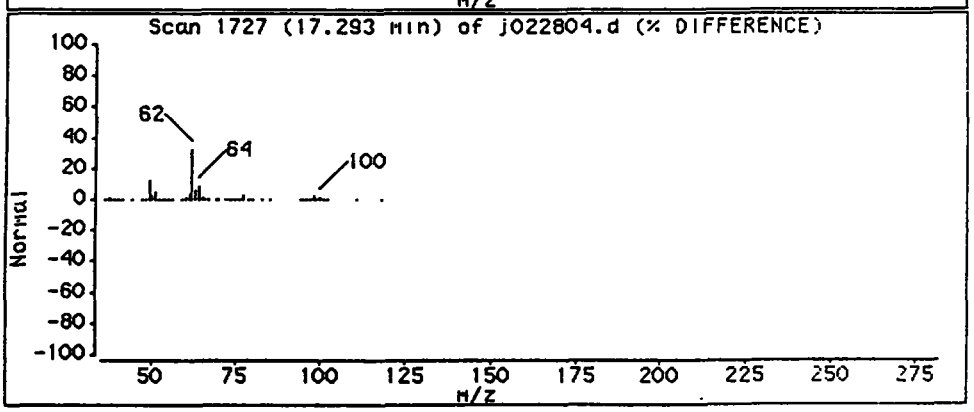
Column diameter: 0.58

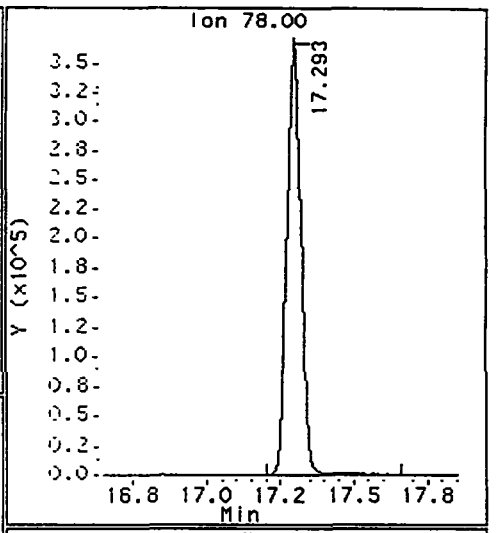
37 Benzene

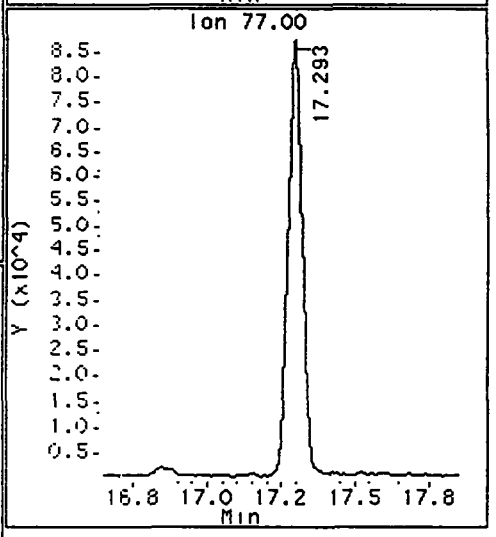












Data File: /chem/msdj.i/j-28feb.b/j022804.d

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Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

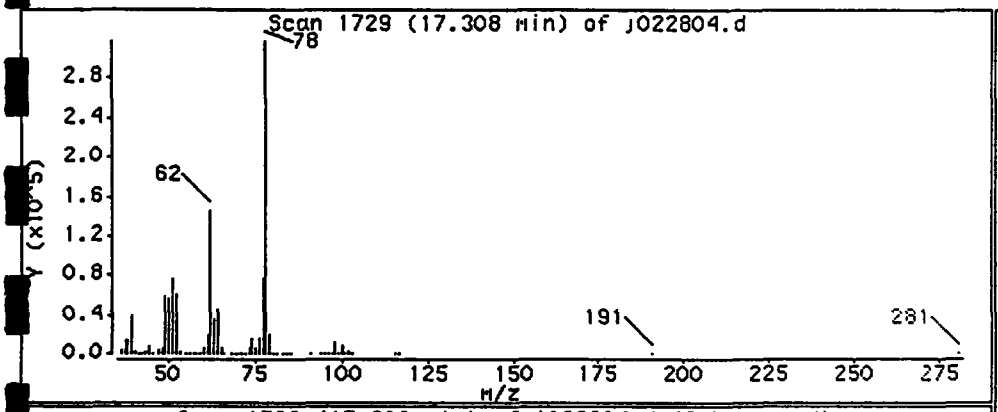
Sample Info: #296-71 T014Std. 25ml (5ppbv)

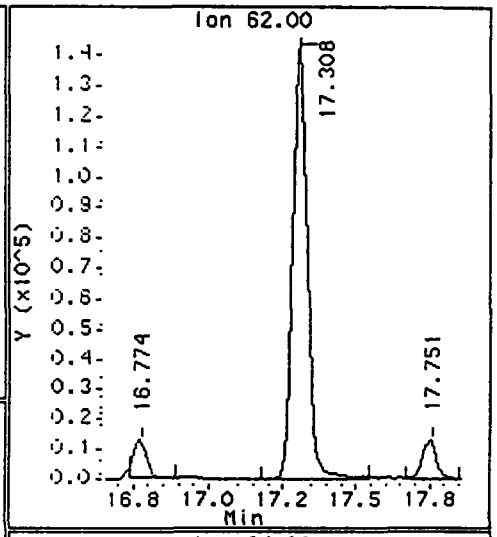
Operator: MH

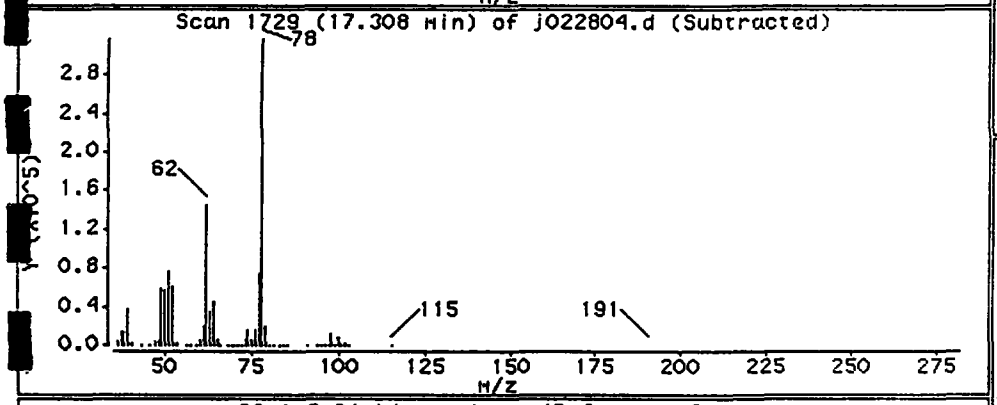
Column phase: RTx-624

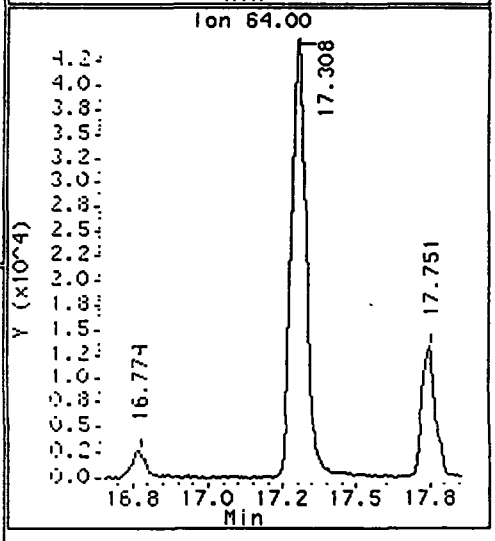
Column diameter: 0.58

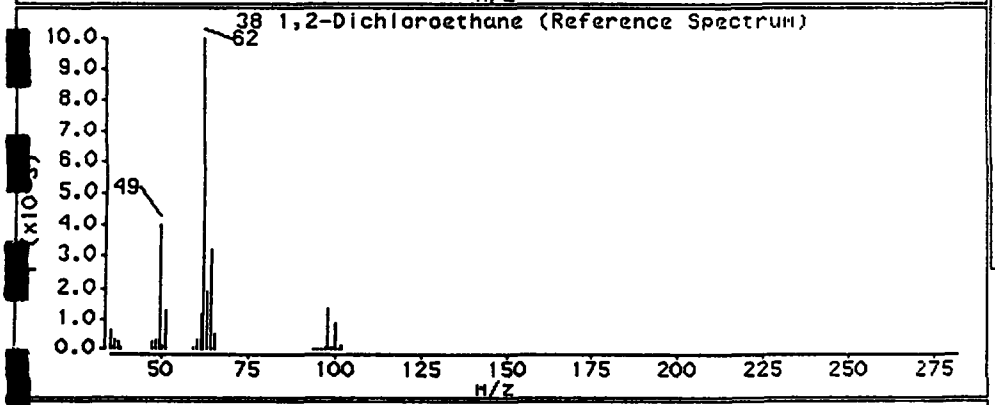
38 1,2-Dichloroethane

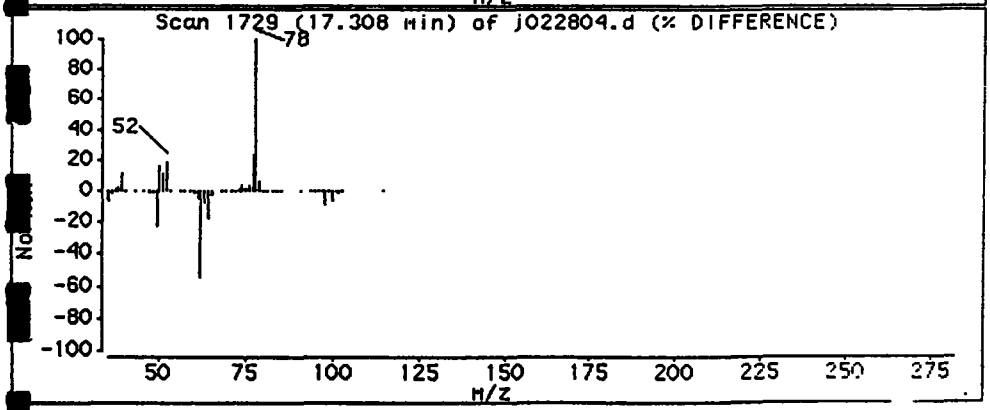












Data File: /chem/msdj.i/j-28feb.b/j022804.d

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Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

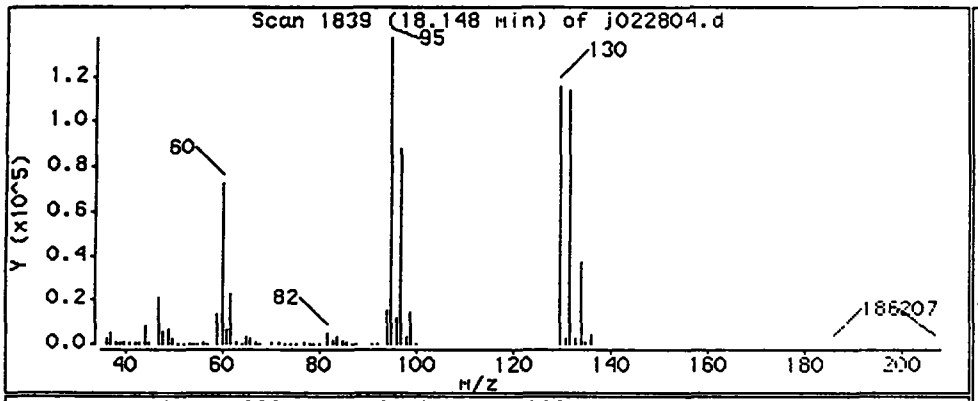
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

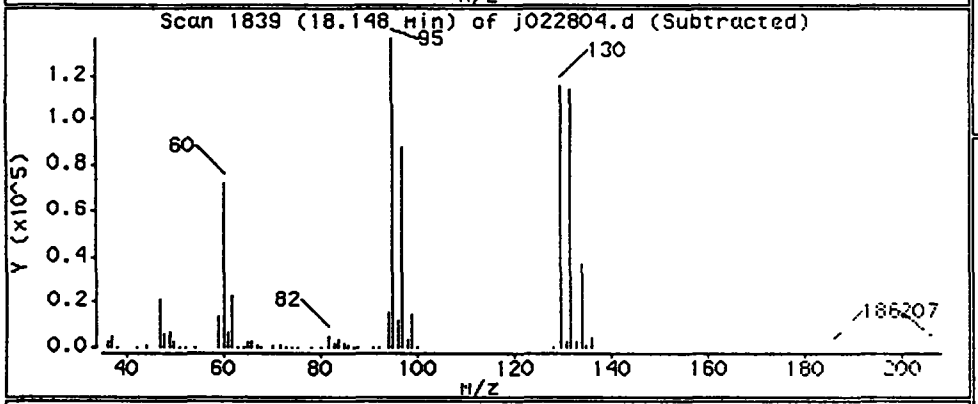
Operator: MH

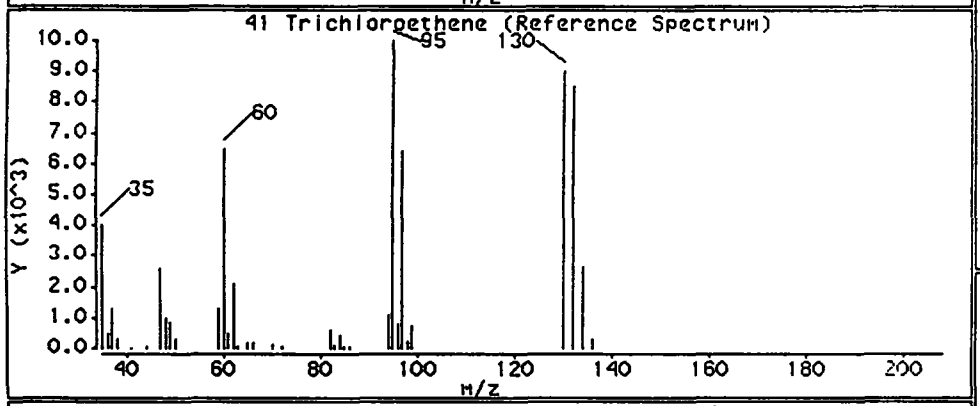
Column phase: RTx-624

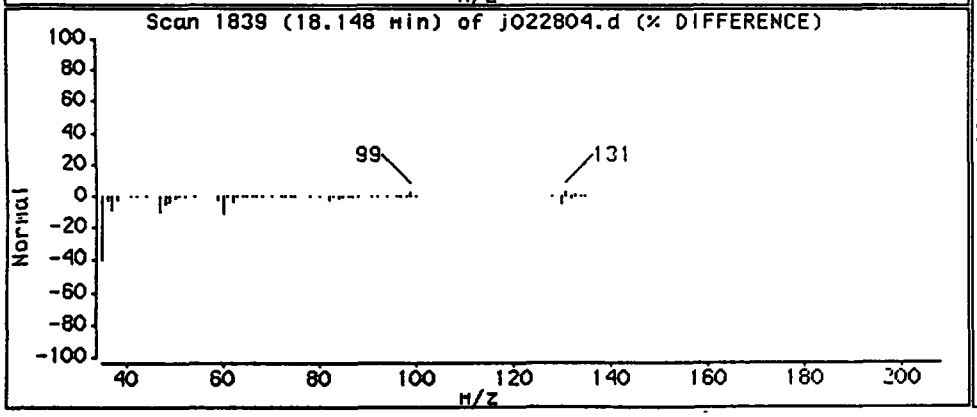
Column diameter: 0.58

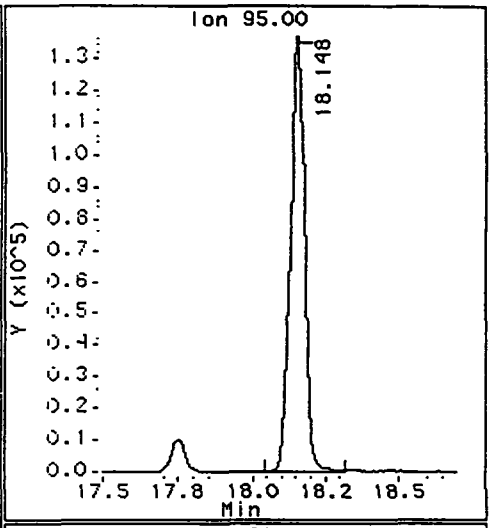
41 Trichloroethene

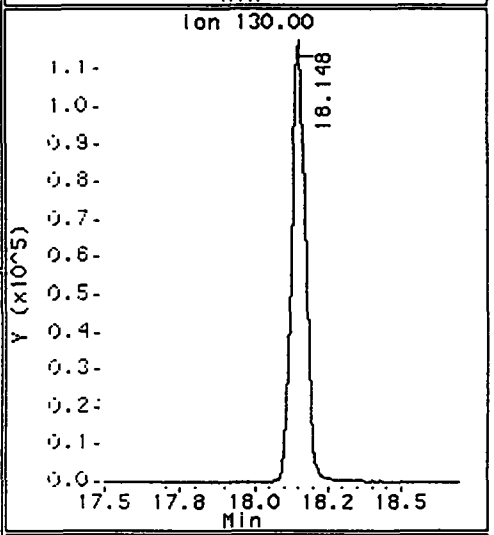


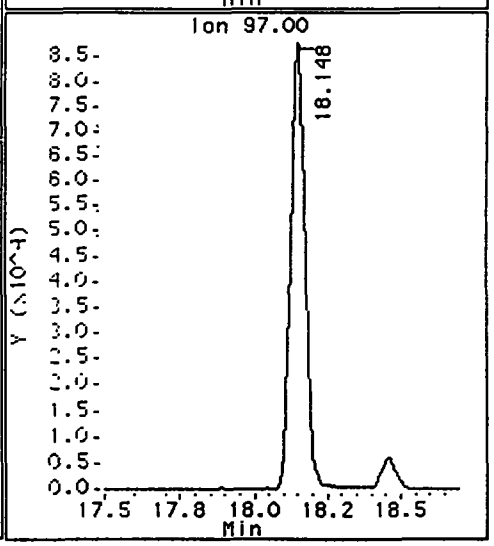












Data File: /chem/msdj.i/j-28feb.b/j022804.d

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Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

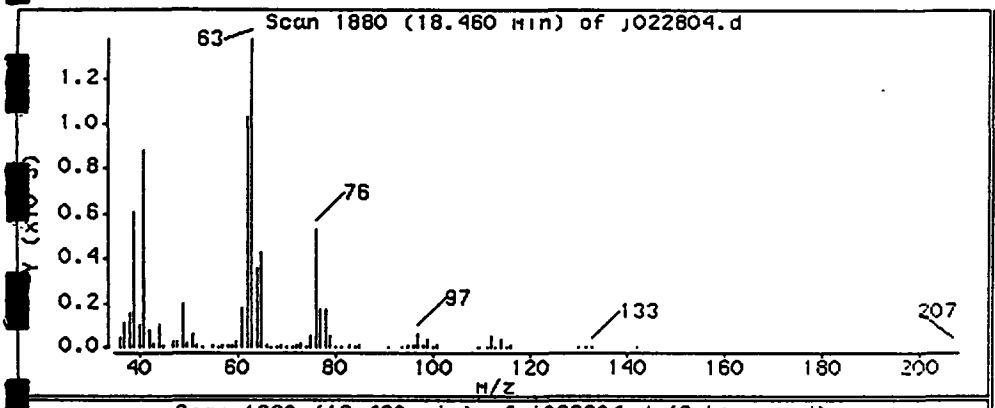
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

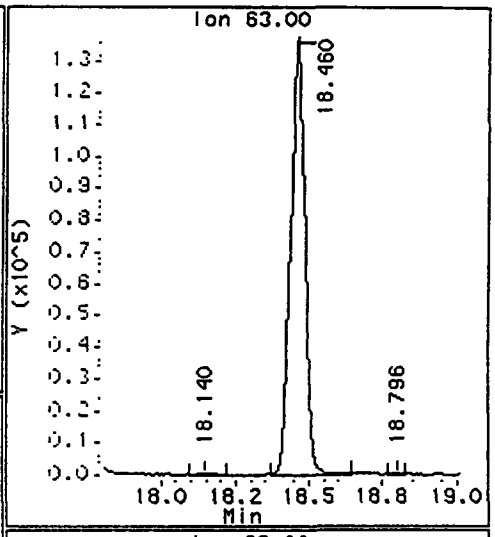
Operator: MH

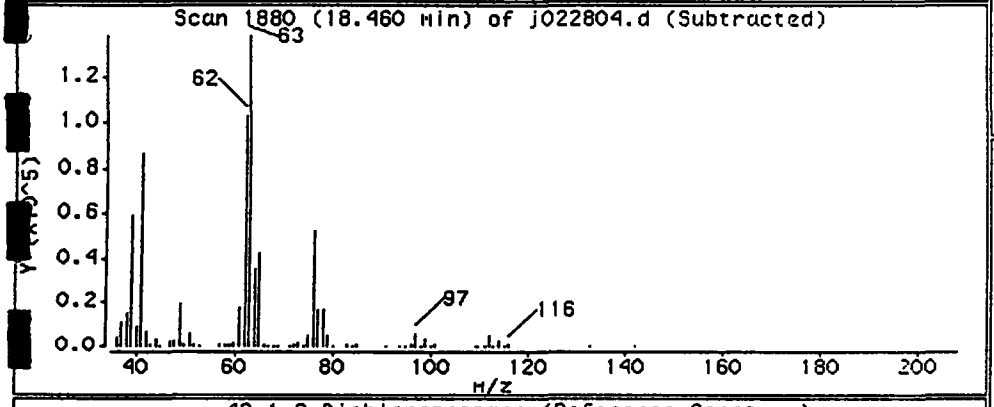
Column phase: RTx-624

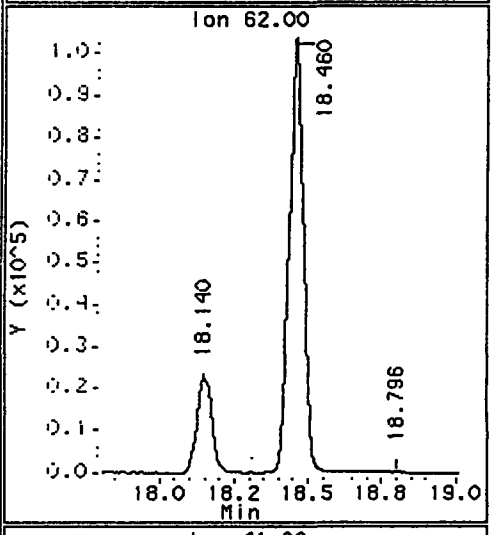
Column diameter: 0.58

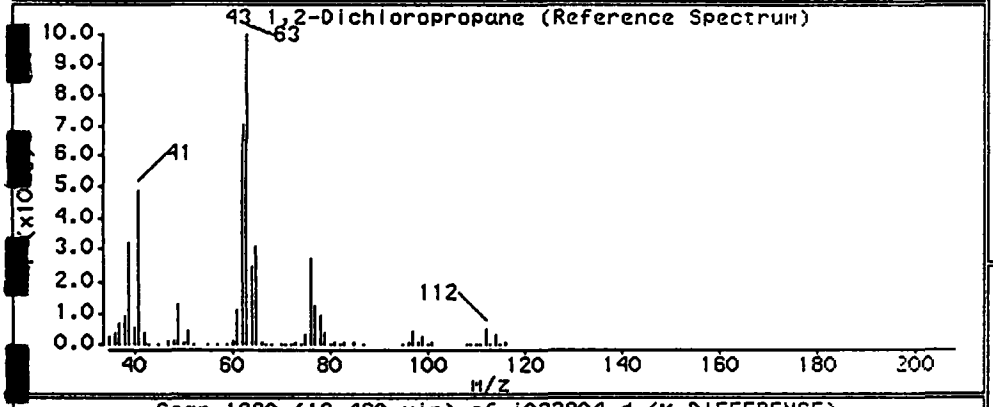
43 1,2-Dichloropropane

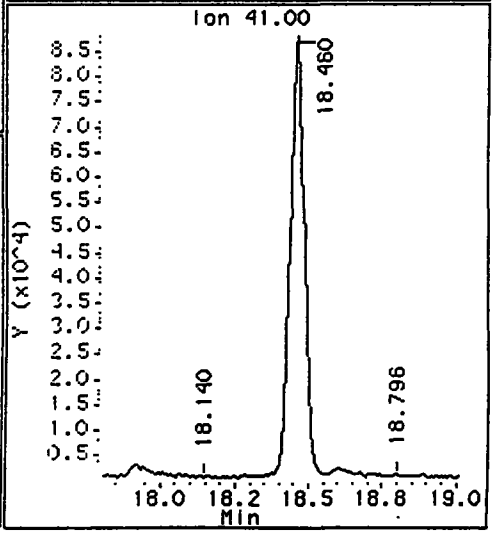


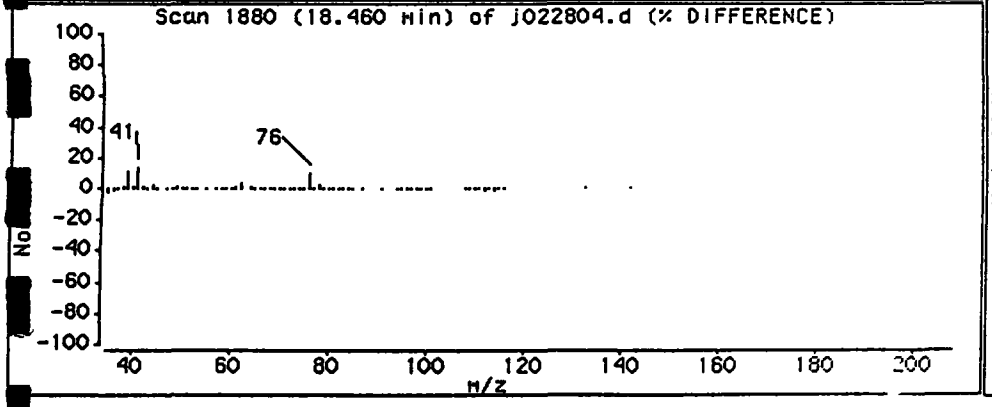












Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

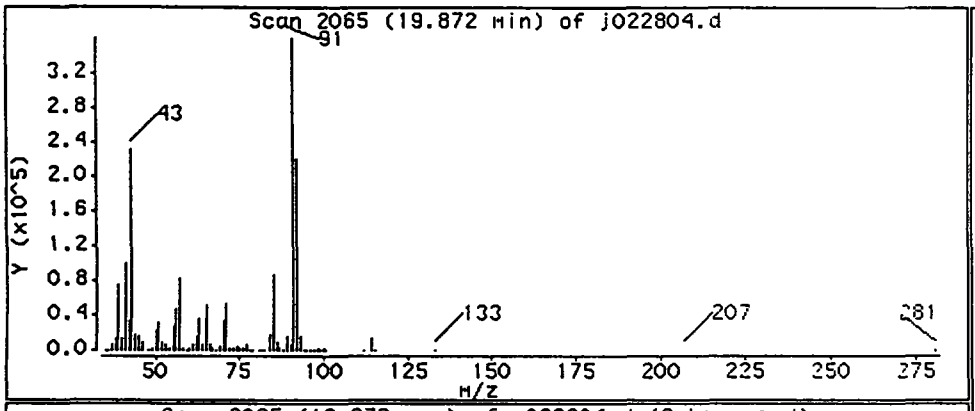
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

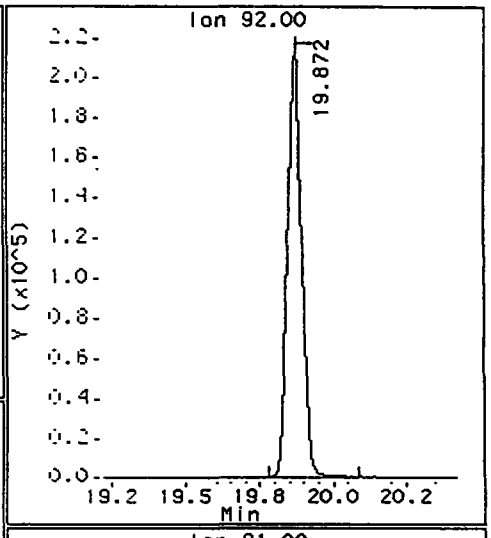
Operator: MH

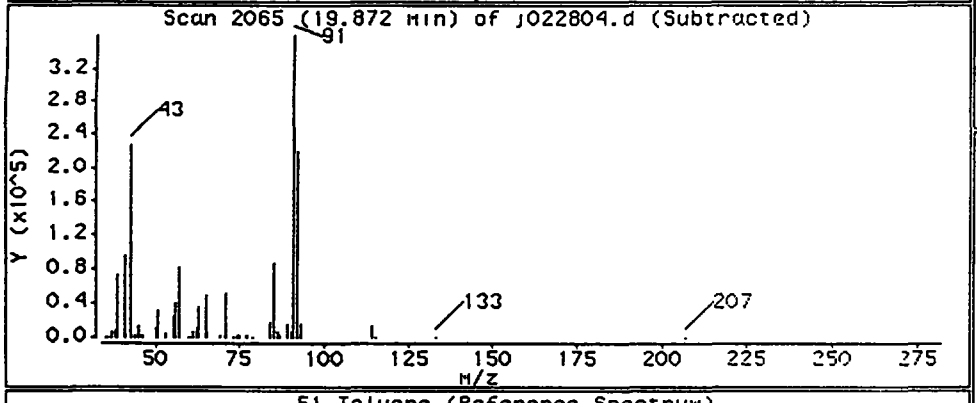
Column phase: RTx-624

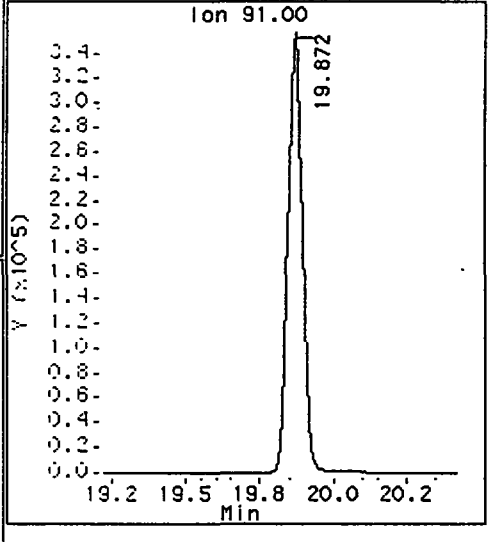
Column diameter: 0.58

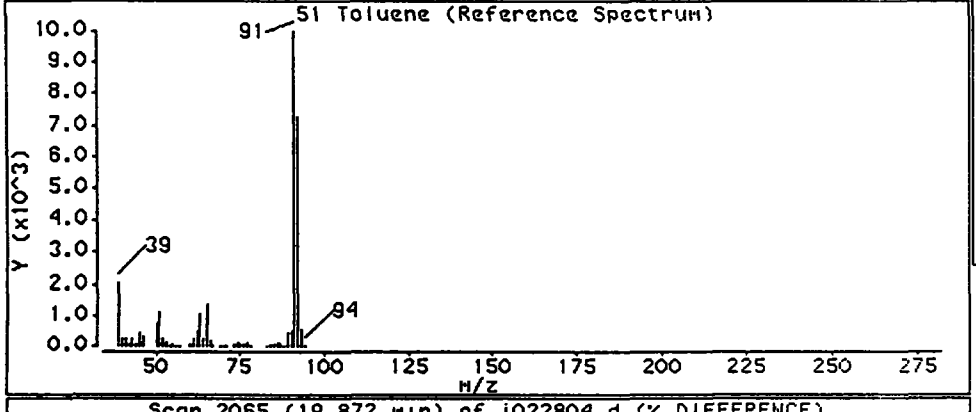
51 Toluene

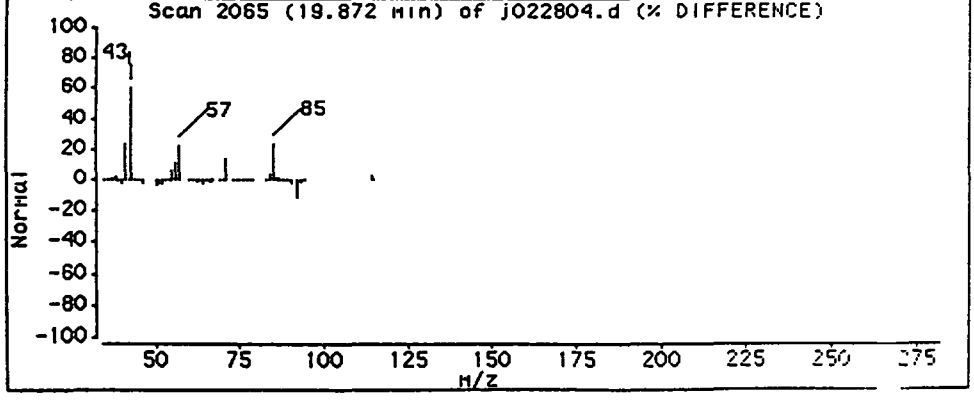












Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

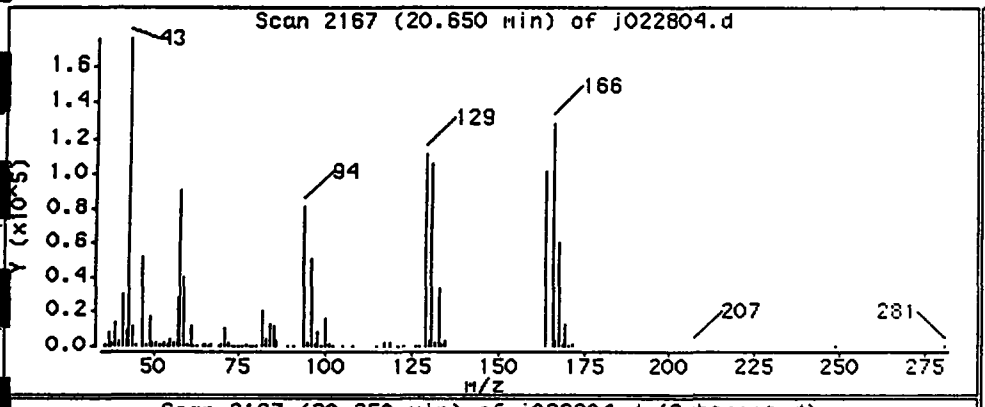
Sample Info: #296-71 T014Std. 25ml (5ppbv)

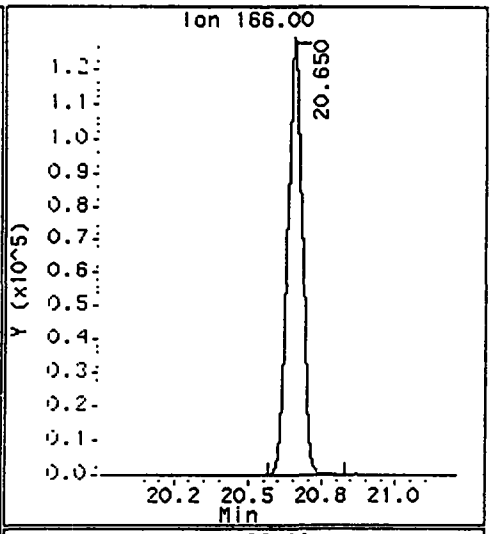
Operator: MH

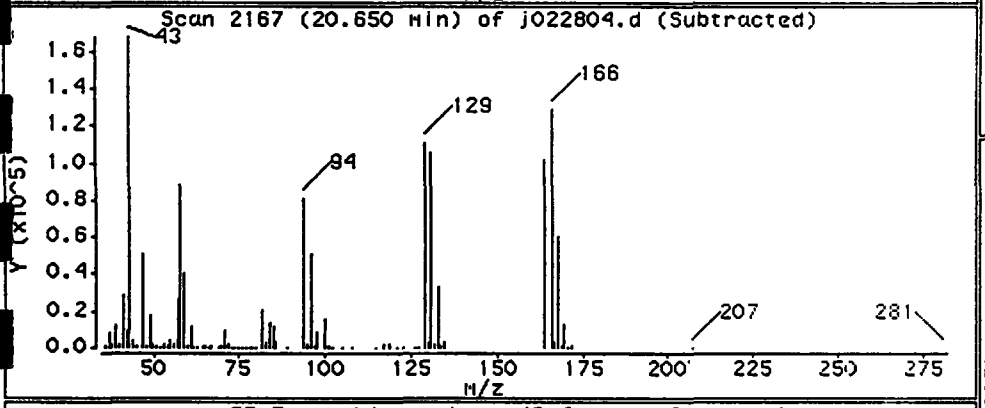
Column phase: RTx-624

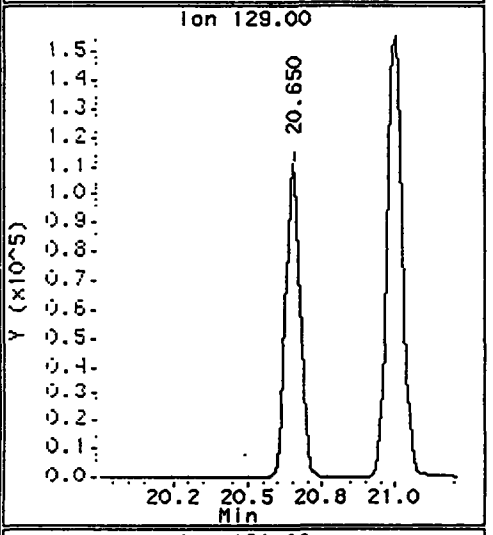
Column diameter: 0.58

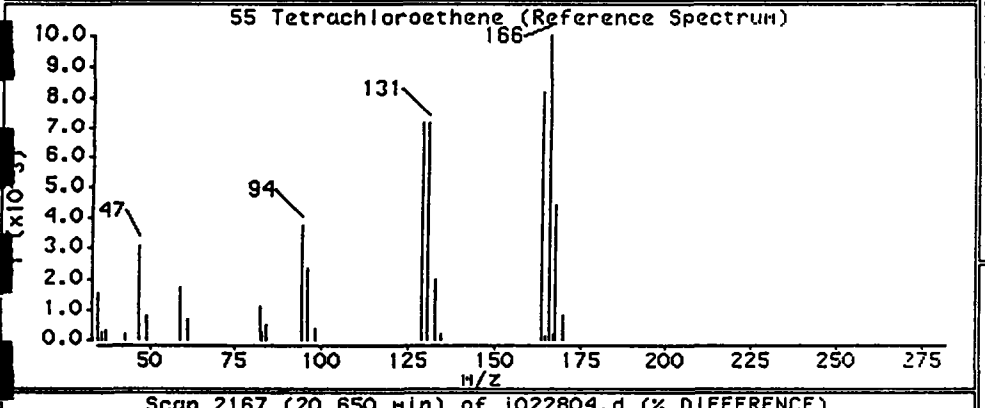
55 Tetrachloroethene

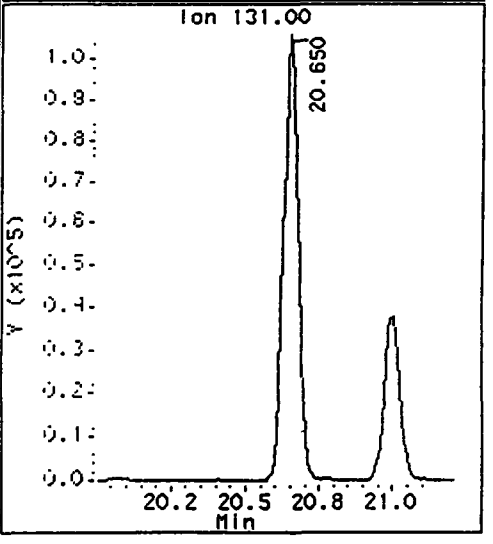


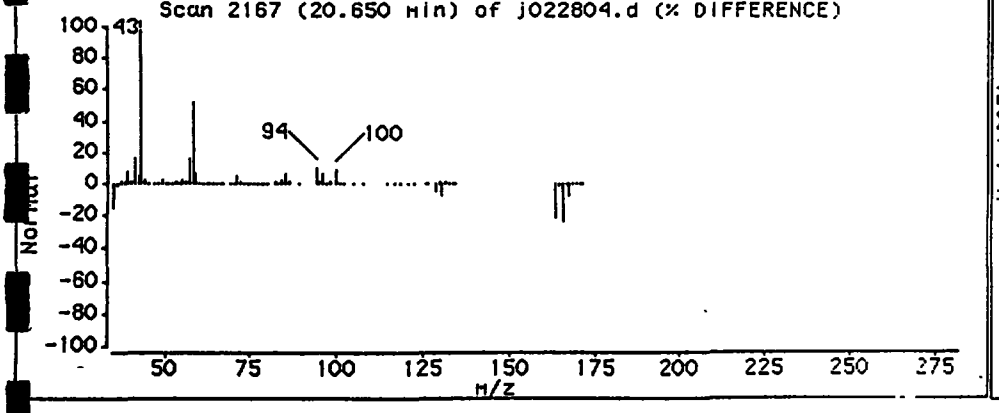












Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

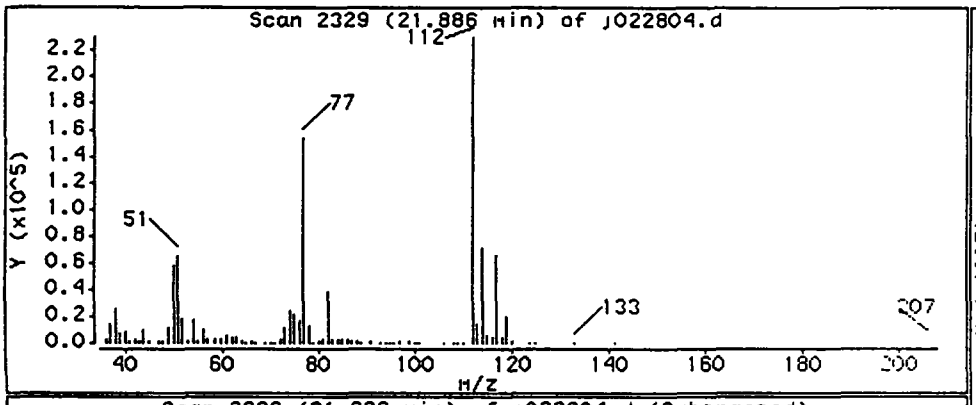
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

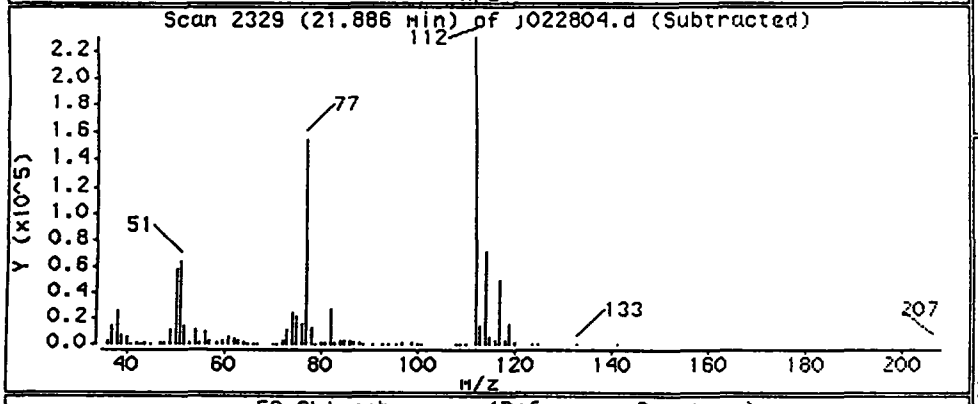
Operator: MH

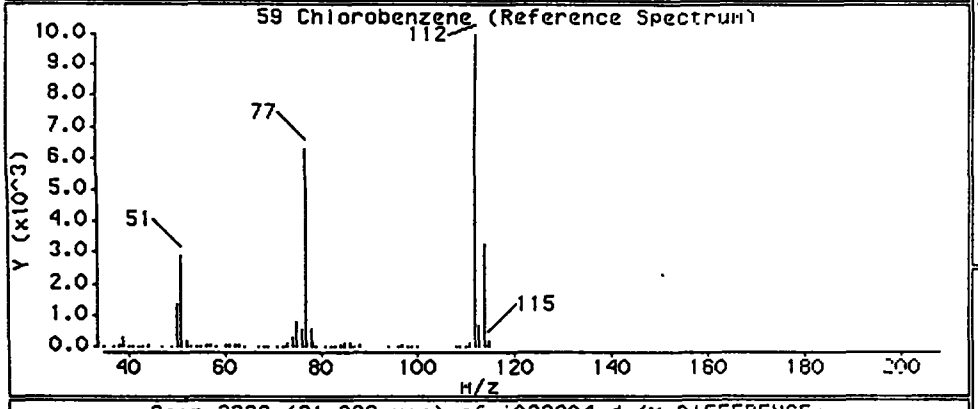
Column phase: RTx-624

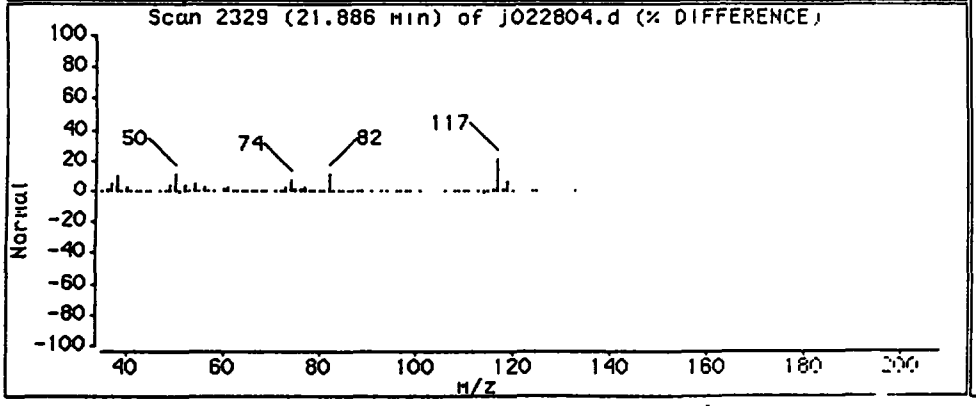
Column diameter: 0.58

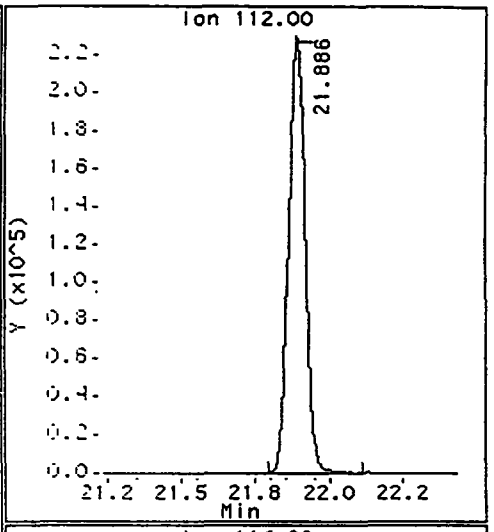
59 Chlorobenzene

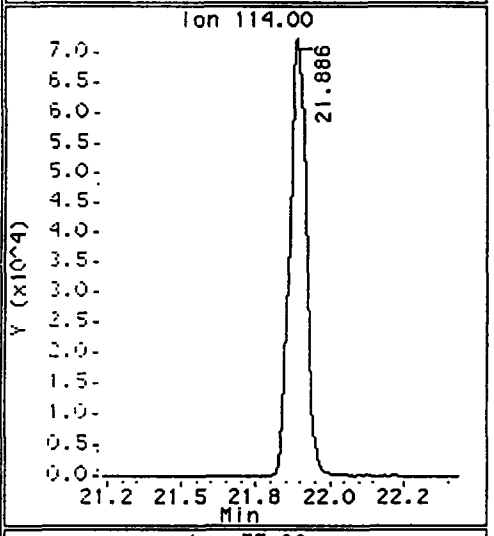


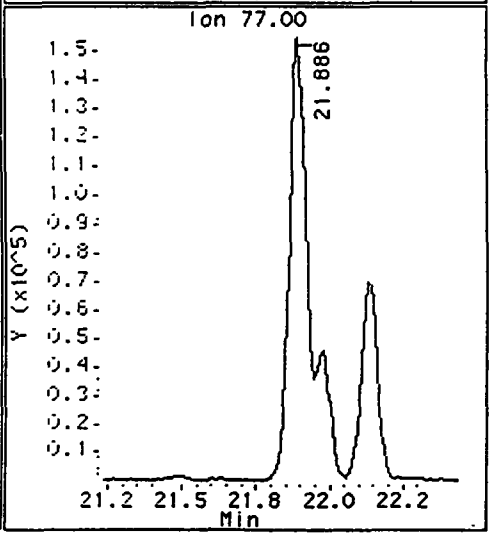












Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

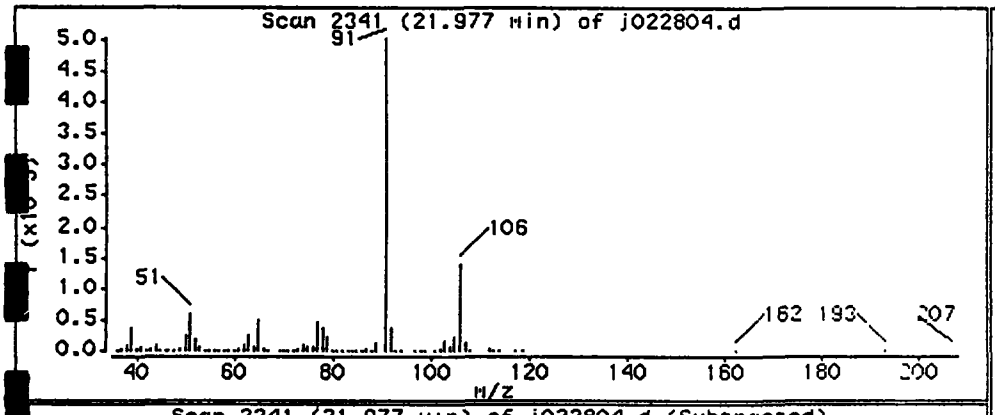
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

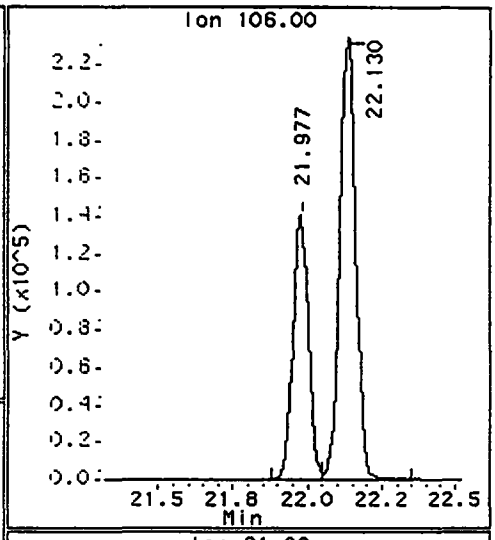
Operator: MH

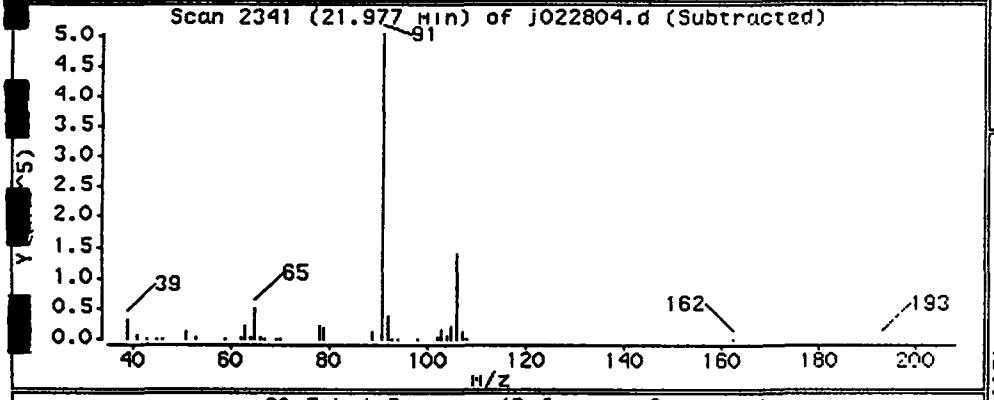
Column phase: RTx-624

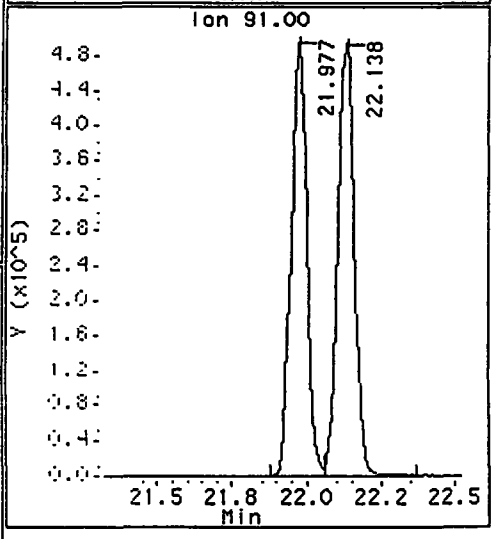
Column diameter: 0.58

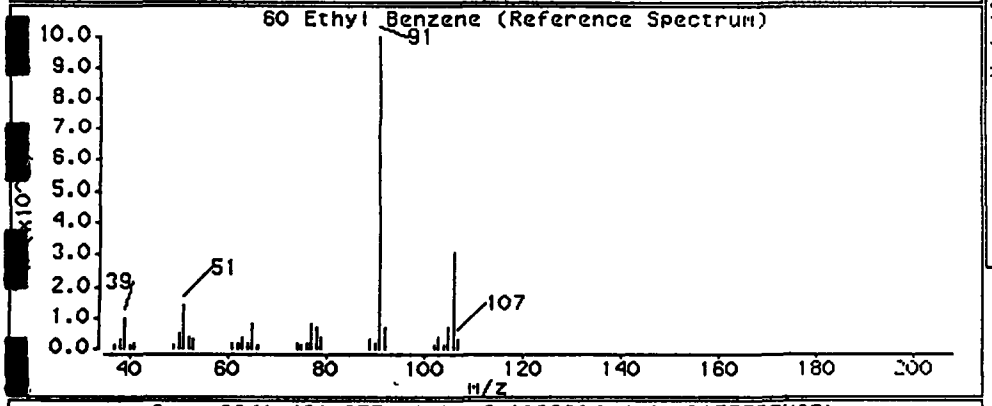
60 Ethyl Benzene

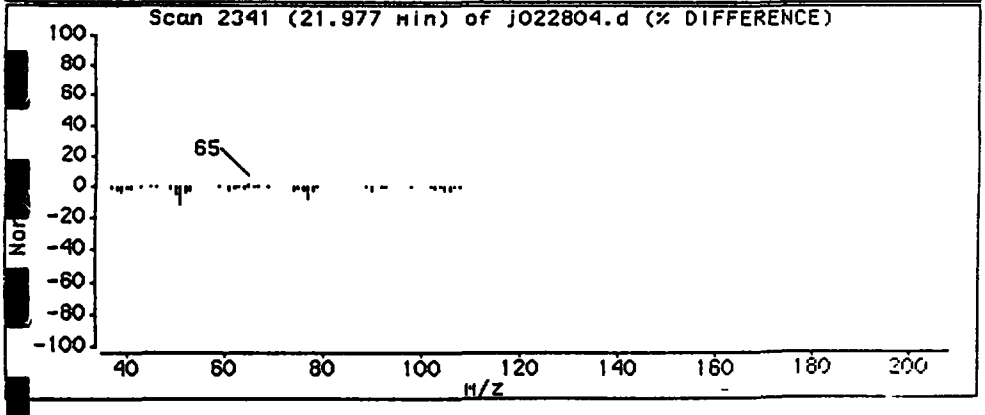












Data File: /chem/msdj.i/j-28feb.b/j022804.d

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Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

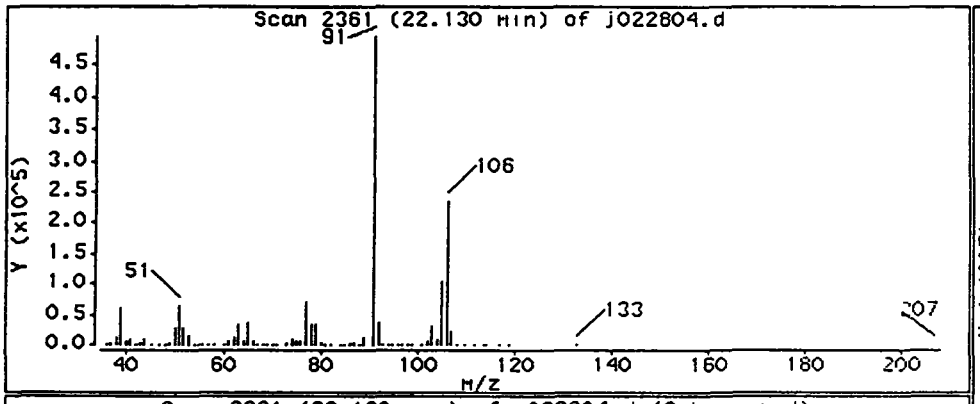
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

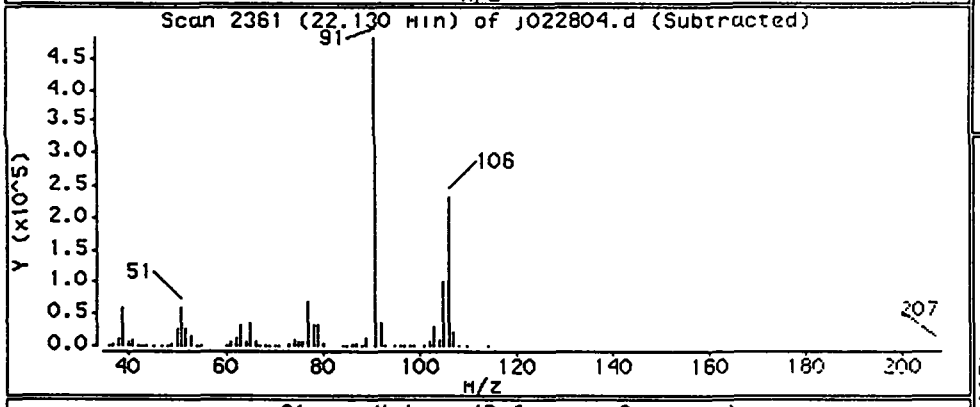
Operator: MH

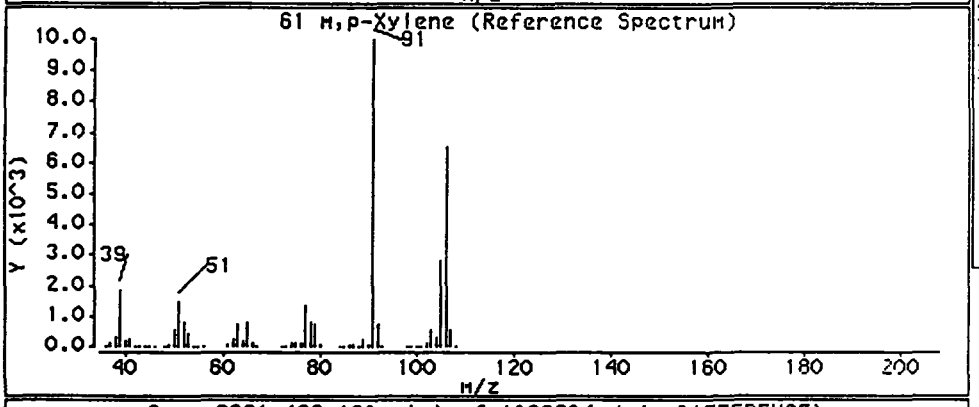
Column phase: RTx-624

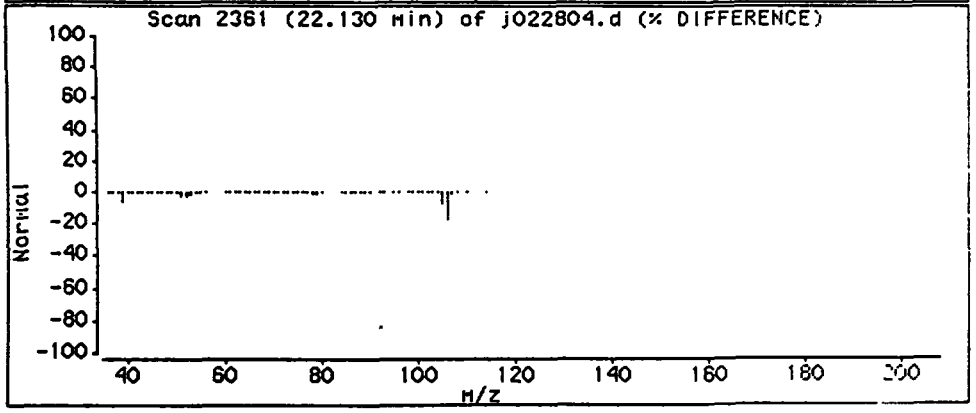
Column diameter: 0.53

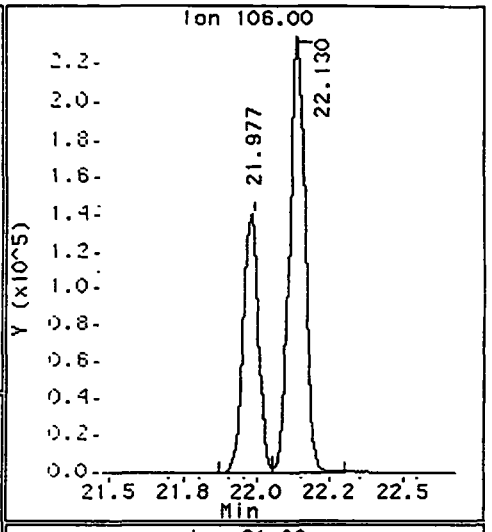
61 m,p-Xylene

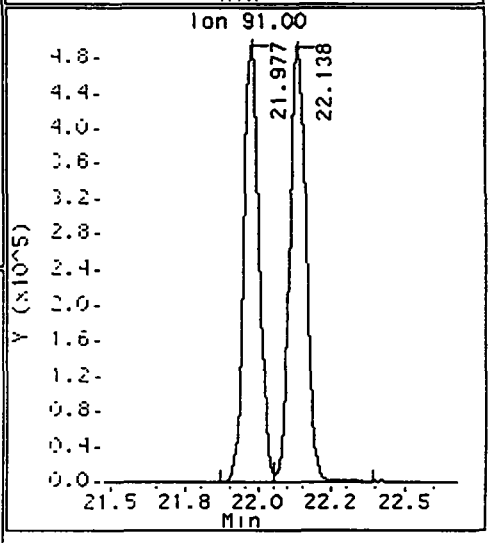












Data File: /chem/msdj.i/j-28feb.b/j022804.d

Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

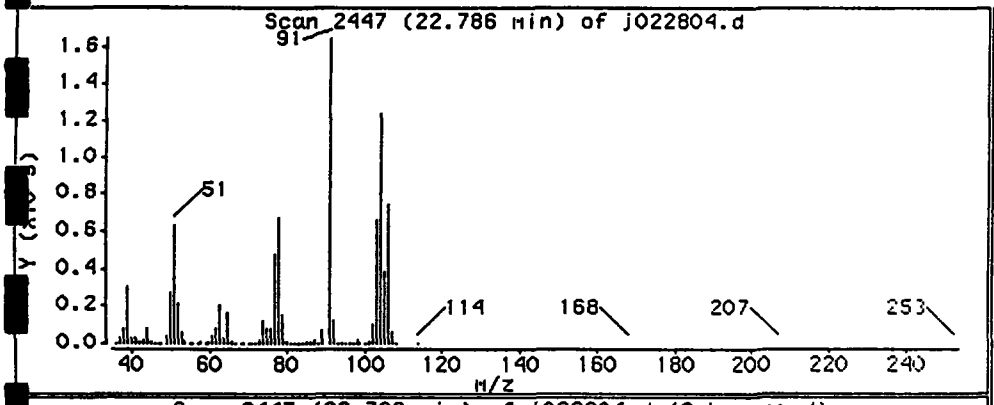
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

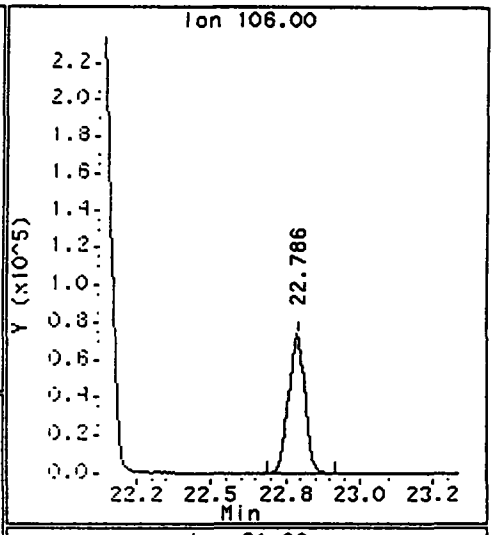
Operator: MH

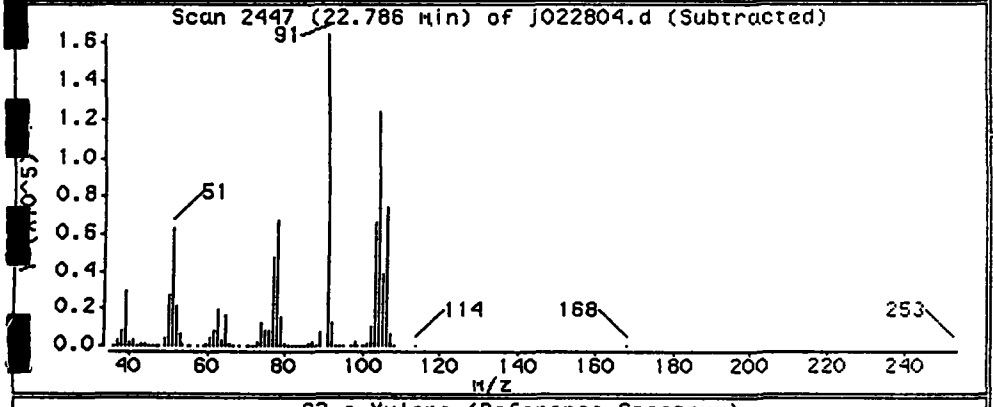
Column phase: RTx-624

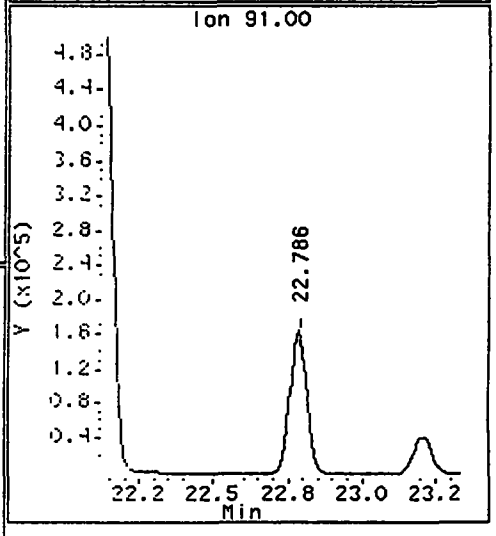
Column diameter: 0.58

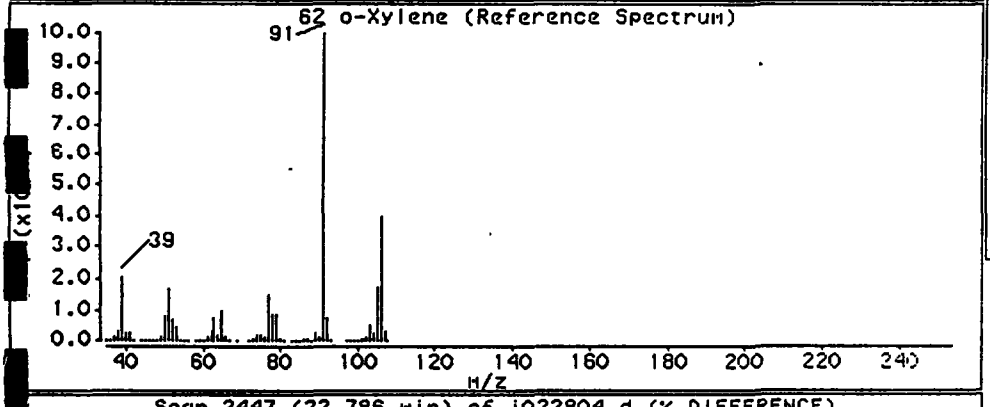
62 o-Xylene

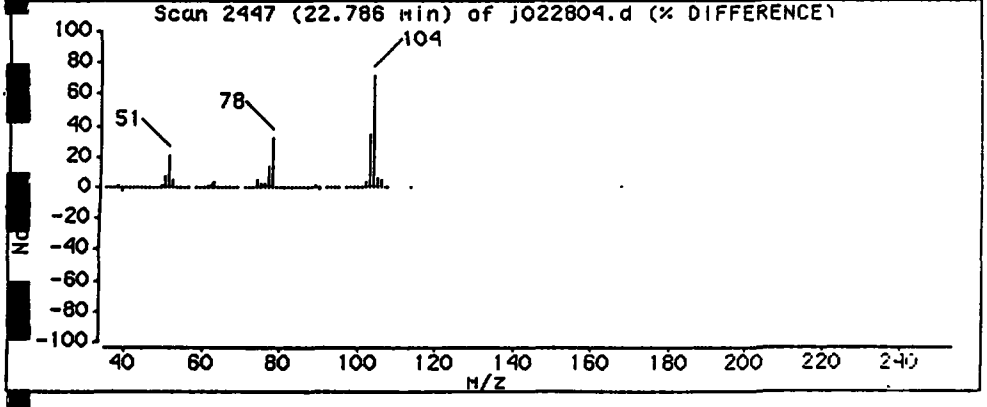












Data File: /chem/msdj.i/j-28feb.b/j022804.d

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Date : 28-FEB-1997 13:04

Client ID: Method Spike

Instrument: msdj.i

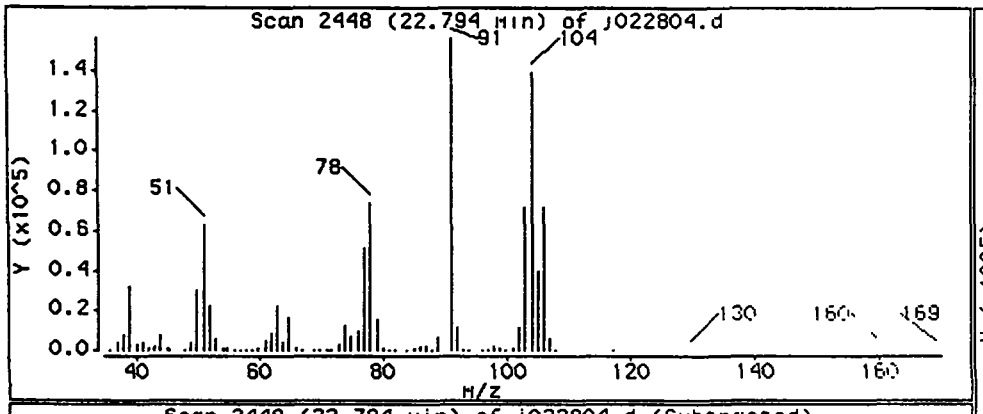
Sample Info: #296-71 TO14Std. 25ml (5ppbv)

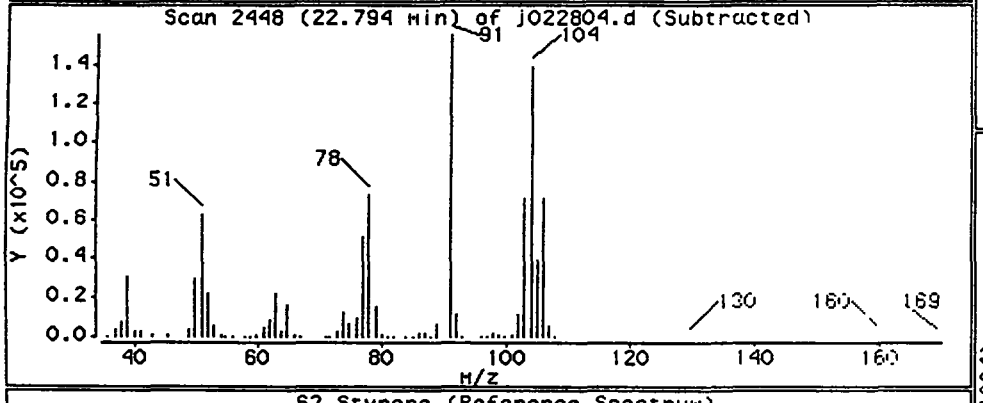
Operator: MH

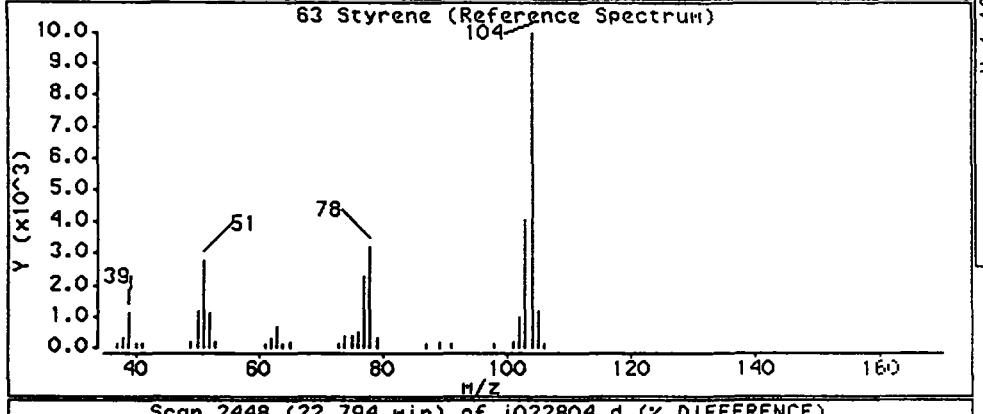
Column phase: RTx-624

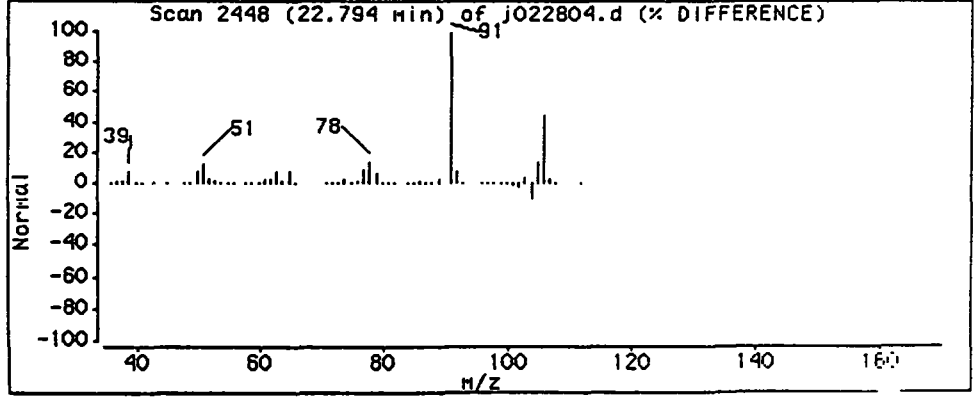
Column diameter: 0.58

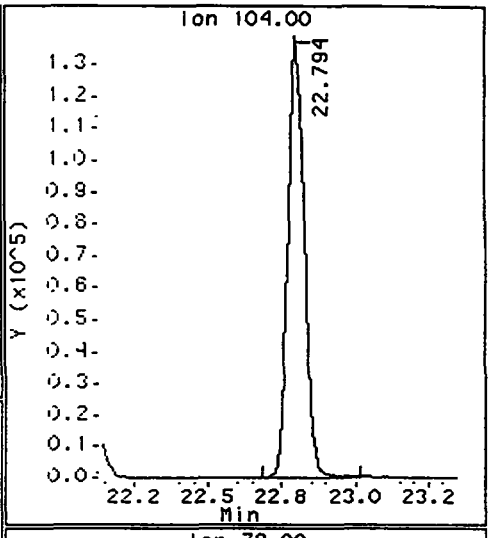
63 Styrene

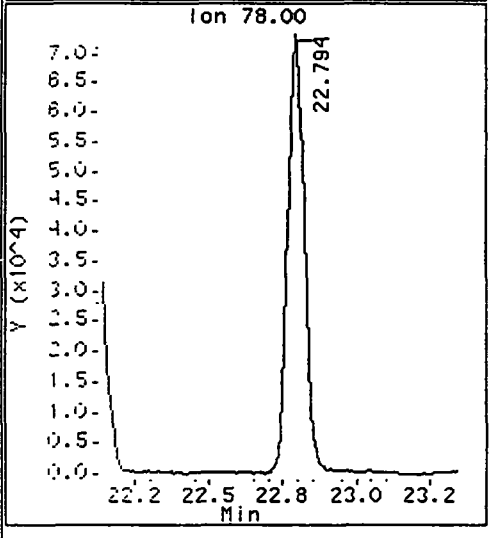






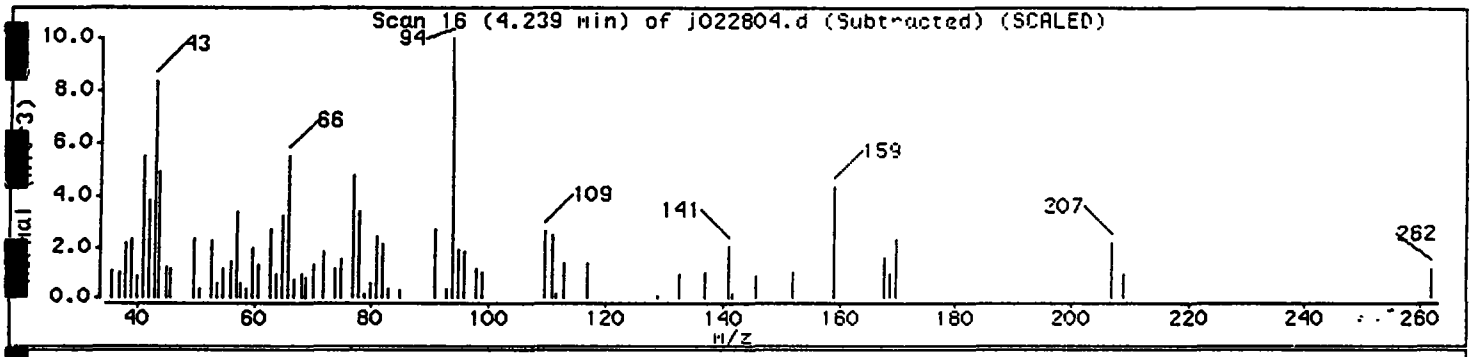




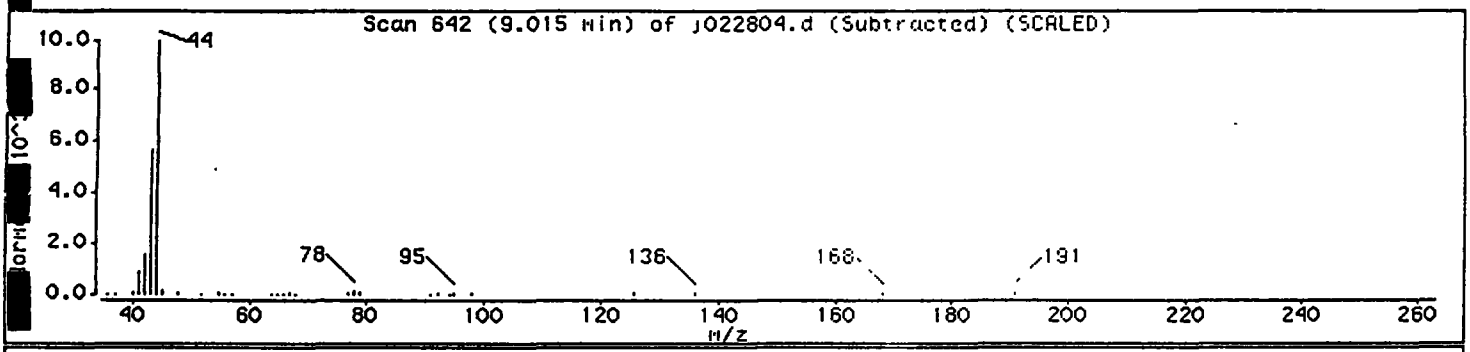


Data File: /chem/msdj.i/j-28feb.b/j022804.d
Date : 28-FEB-1997 13:04
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Unknown			0	0

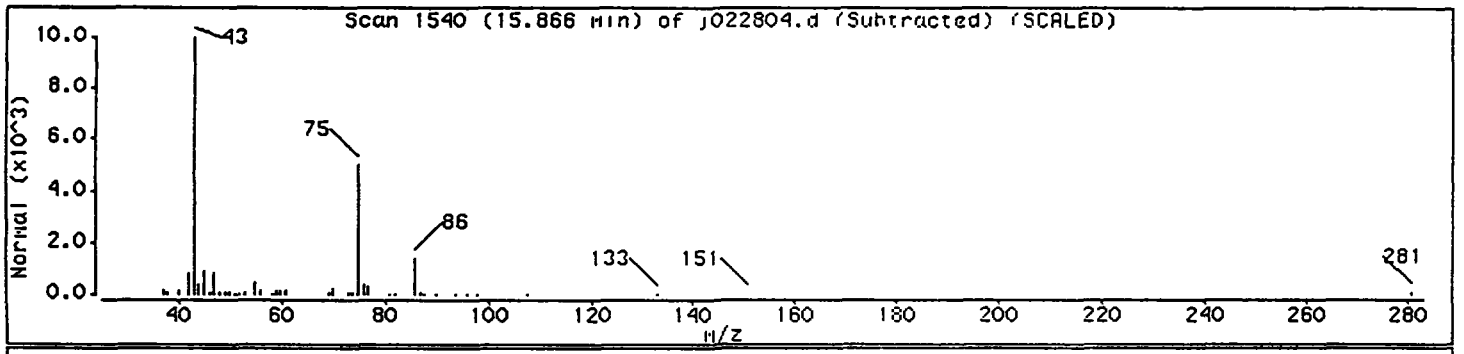


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Unknown			0	0



Data File: /chem/msdj.i/j-28feb.b/j022804.d
Date : 28-FEB-1997 13:04
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Unknown			0	0



Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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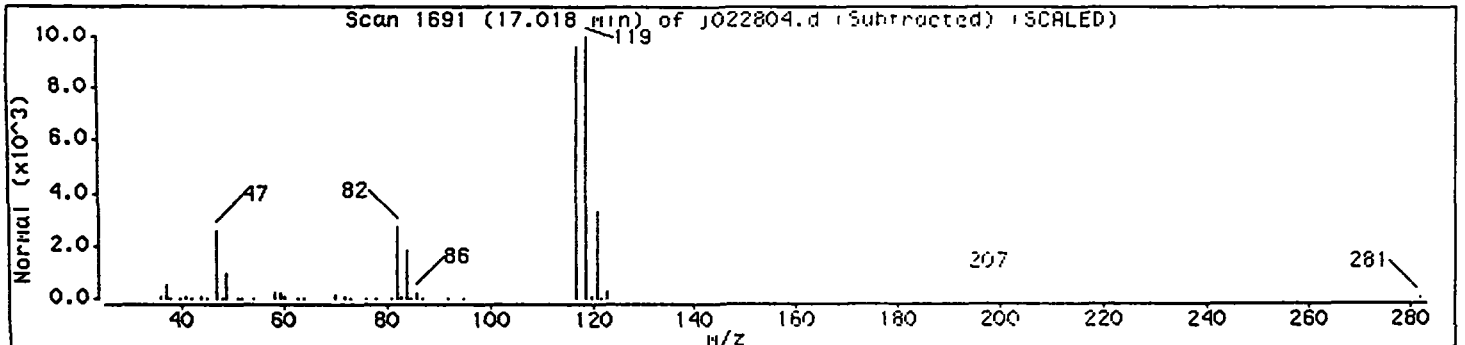
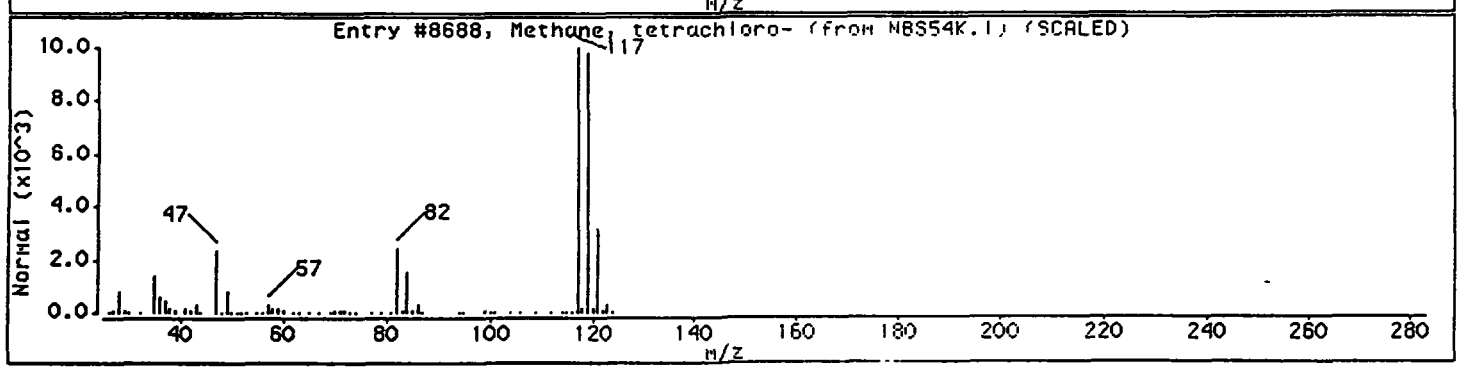
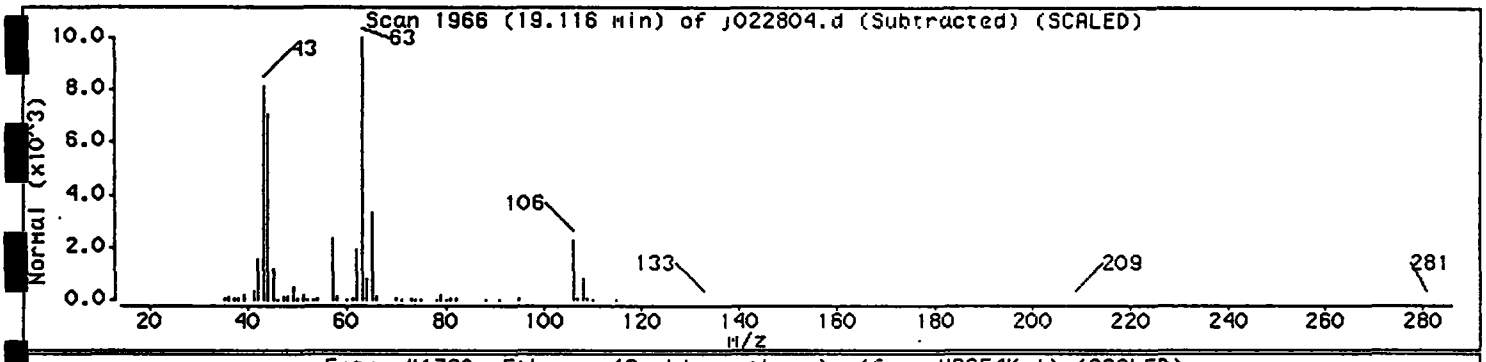
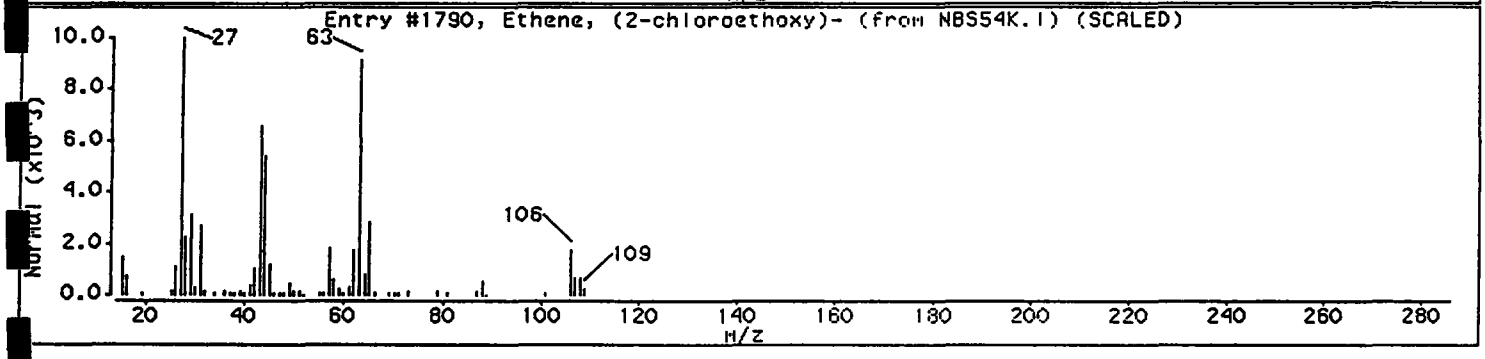




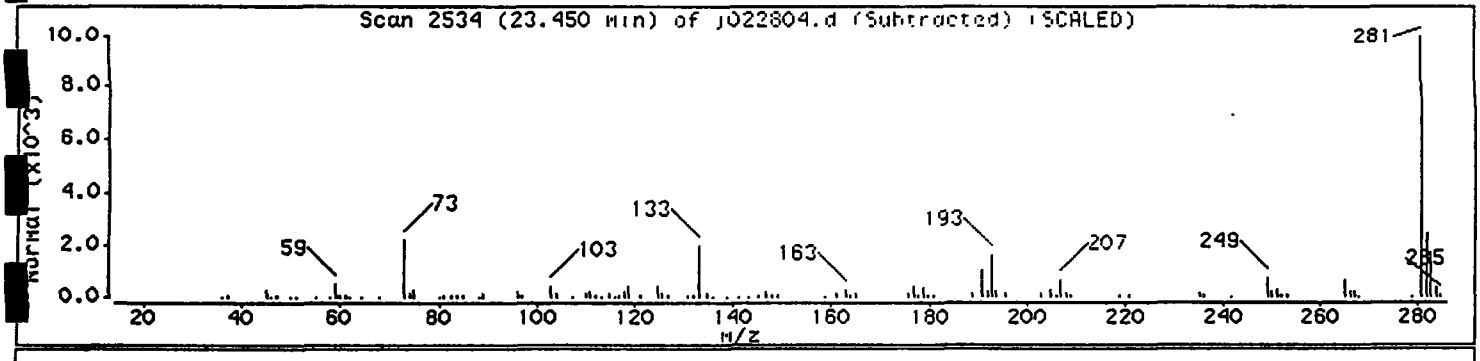
Data File: /chem/msdj.i/j-28feb.b/j022804.d
Date : 28-FEB-1997 13:04
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Ethene, (2-chloroethoxy)-	110-75-8	NBS54K.I	1790	94





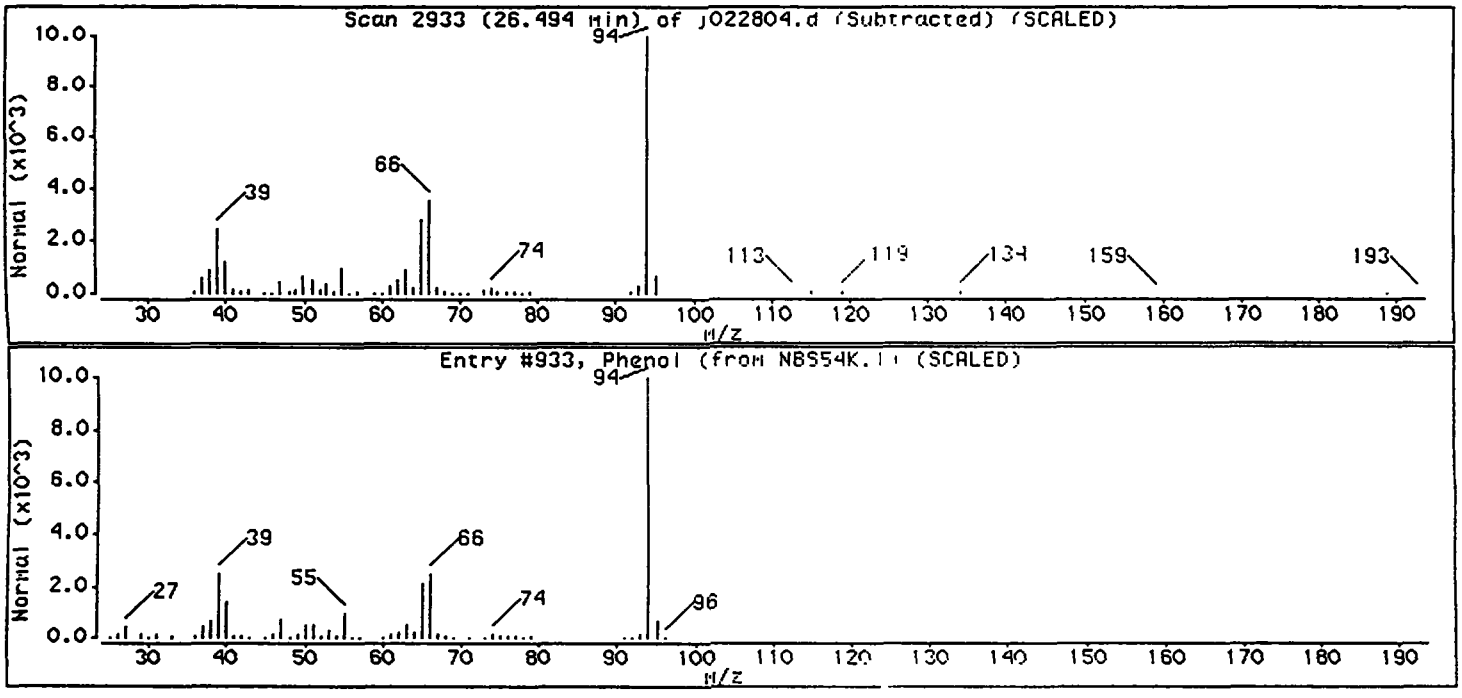
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Unknown			0	0



Data File: /chem/msdj.i/j-28feb.b/j022804.d
Date : 28-FEB-1997 13:04
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Phenol	108-95-2	NBS54K.I	933	87



Data File: /chem/msdj.i/j-09jan.b/j010903.d
Report Date: 09-Jan-1997 09:13

Air Toxics Limited

Data file : /chem/msdj.i/j-09jan.b/j010903.d
Lab Smp Id:
Inj Date : 09-JAN-1997 09:07
Operator : FA Inst ID: msdj.i
Smp Info : BFB Tune Check #275-8-25 2.0ul
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/bfb.m
Meth Date : 09-Jan-1997 09:13 fayala Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12 Sample Matrix: WATER
Concentration Formula: Uf * Vf * Vi

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.019	8.019	0.000	95	65480				100.00
8.019	8.019	0.000	50	11913			15.00- 40.00	18.19
8.019	8.019	0.000	75	29857			30.00- 60.00	45.57
8.019	8.019	0.000	96	4304			5.00- 9.00	6.57
8.019	8.019	0.000	173	0			0.00- 2.00	0.00
8.019	8.019	0.000	174	46610			50.00- 100.00	71.18
8.019	8.019	0.000	175	3256			5.00- 9.00	6.99
8.019	8.019	0.000	176	45104			95.00- 101.00	96.77
8.019	8.019	0.000	177	3143			5.00- 9.00	6.97

Data File: /chem/msdj.i/j-09jan.b/j010903.d
Report Date: 09-Jan-1997 09:13

Air Toxics Limited

TARGET COMPOUNDS

Client Name:
Client SDG: j-09jan
Lab Smp Id:
Sample Location:
Sample Point:
Sample Date:
Date Received:
Sample Matrix: WATER
Quant Type: ESTD
Analysis Type: bfb
Level: LOW
Data Type: MS DATA
Operator: FA
Misc Info:

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
460-00-4	bfb	0.0	

C150

Data File: /ohen/msdj.i/J-08Jan.b/J010803.d

Page 3

Date : 08-JAN-1997 08:07

Client ID:

Instrument: msdj.i

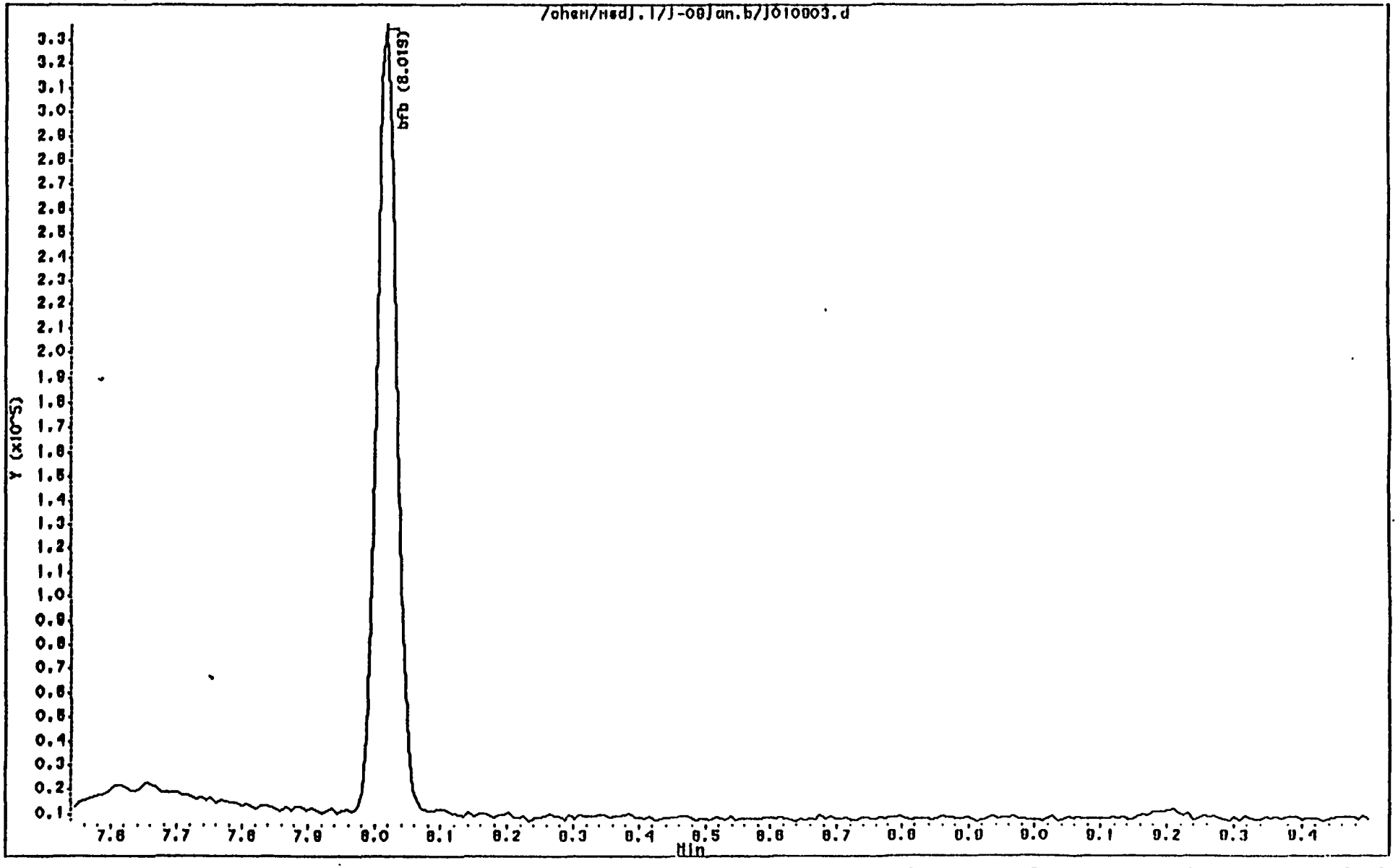
Sample Info: BFB Tune Check #275-8-25 2.0ul

Volume Injected (uL): 1.0

Operator: FA

Column phase:

Column diameter: 2.00



Data File: /chem/msdj.i/j-09jan.b/j010903.d

Date : 09-JAN-1997 09:07

Client ID:

Instrument: msdj.i

Sample Info: BFB Tune Check #275-8-25 2.0ul

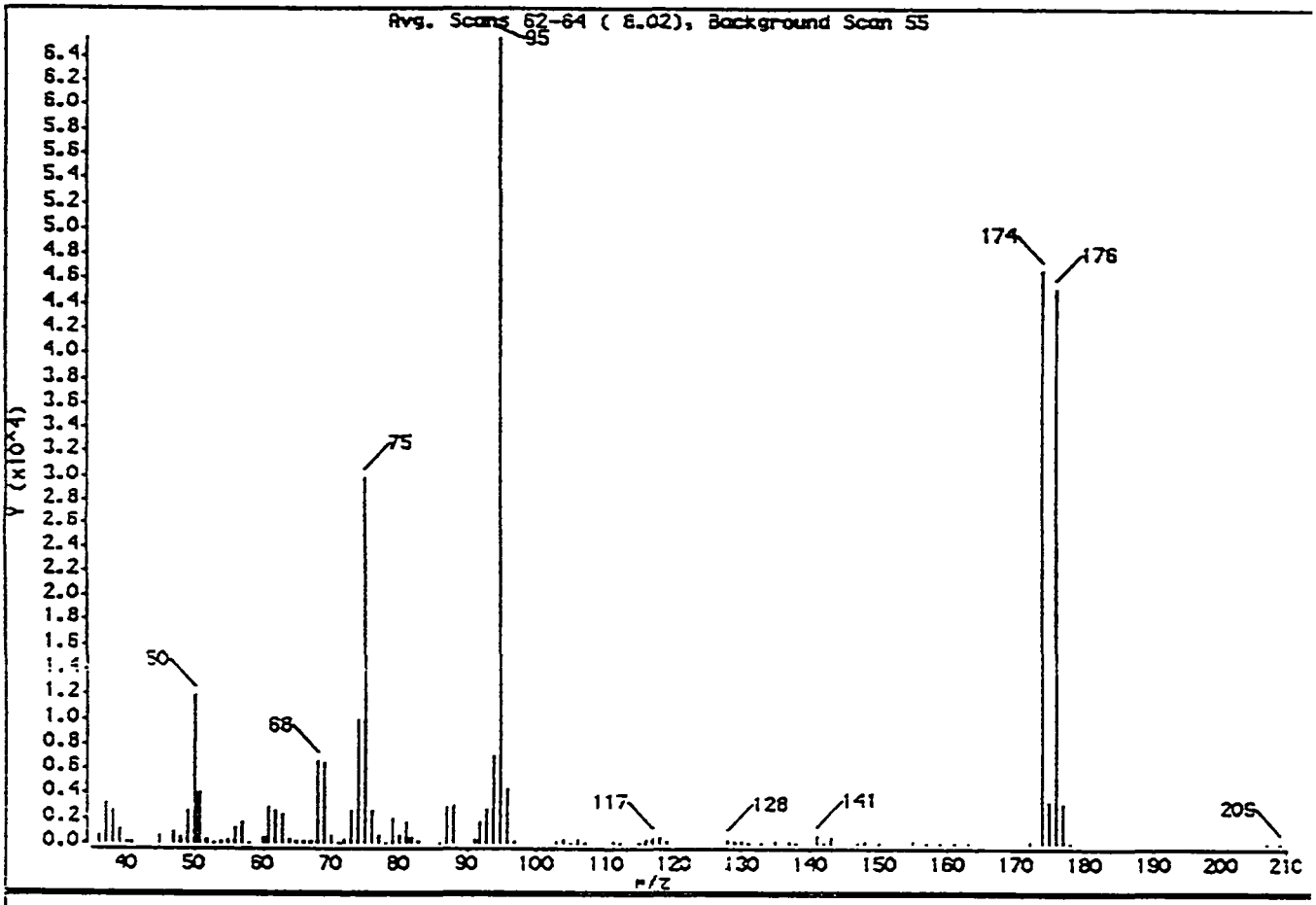
Volume Injected (uL): 1.0

Operator: FR

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.18
75	30.00 - 60.00% of mass 95	45.57
96	5.00 - 9.00% of mass 95	8.57
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	71.18
175	5.00 - 9.00% of mass 174	4.97 (6.99)
176	95.00 - 101.00% of mass 174	98.88 (98.77)
177	5.00 - 9.00% of mass 176	4.90 (6.97)

Data File: /chem/msdj.i/j-09jan.b/j010903.d Page 5

Date : 09-JAN-1997 09:07

Client ID: Instrument: msdj.i

Sample Info: BFB Tune Check 8275-8-25 2.0ul

Volume Injected (uL): 1.0 Operator: FA

Column phase: Column diameter: 2.00

Data File: j010903.d

Spectrum : Avg. Scans 62-64 (8.02), Background Scan 55

Largest m/z: 95.00

Number of peaks: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	611	65.00	120	93.00	2642	137.00	117
37.00	3142	66.00	195	94.00	7026	138.00	34
38.00	2627	67.00	154	95.00	65480	141.00	553
39.00	1089	68.00	6622	96.00	4304	142.00	56
40.00	94	69.00	6539	97.00	219	143.00	460
41.00	85	70.00	581	103.00	136	147.00	36
45.00	626	71.00	67	104.00	280	148.00	119
47.00	977	72.00	345	105.00	70	150.00	39
48.00	523	73.00	2521	106.00	230	155.00	121
49.00	2623	74.00	9552	107.00	34	157.00	59
50.00	11913	75.00	25832	111.00	152	159.00	55
51.00	4039	76.00	2833	112.00	43	161.00	36
52.00	279	77.00	551	115.00	43	163.00	35
53.00	50	78.00	84	116.00	263	172.00	218
54.00	83	79.00	1303	117.00	396	174.00	46608
55.00	250	80.00	551	118.00	382	175.00	3256
56.00	1167	81.00	1716	119.00	90	176.00	45104
57.00	1592	82.00	421	126.00	73	177.00	3143
58.00	2	83.00	155	128.00	261	178.00	45
60.00	477	86.00	52	129.00	108	191.00	75
61.00	2823	87.00	2834	130.00	201	207.00	37
62.00	2598	88.00	3028	131.00	45	208.00	46
63.00	2211	91.00	377	132.00	36		
64.00	255	92.00	1588	135.00	123		

Data File: /chem/msdj.i/j-28feb.b/j022801.d
Report Date: 28-Feb-1997 08:37

Air Toxics Limited

Data file : /chem/msdj.i/j-28feb.b/j022801.d
Lab Smp Id:
Client Smp ID: BFB
Inj Date : 28-FEB-97 08:37
Operator : MH
Inst ID: msdj.i
Smp Info : BFB Tune Check #275-8-25 2uL (50ng)
Misc Info :
Comment :
Method : /chem/msdj.i/j-28feb.b/bfb.m
Meth Date : 28-Feb-1997 08:37
Quant Type: ESTD
Cal Date :
Cal File:
Als bottle: 1
QC Sample: BFB
Dil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.12
Sample Matrix: WATER
Concentration Formula: Uf * Vf * Vi

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
7.794	8.019	-0.225	95	45296				100.00
7.794	8.019	-0.225	50	8212			15.00- 40.00	18.13
7.794	8.019	-0.225	75	21588			30.00- 60.00	47.66
7.794	8.019	-0.225	96	2936			5.00- 9.00	6.48
7.794	8.019	-0.225	173	39			0.00- 2.00	0.13
7.794	8.019	-0.225	174	30213			50.00- 100.00	66.70
7.794	8.019	-0.225	175	2339			5.00- 9.00	7.74
7.794	8.019	-0.225	176	29114			95.00- 101.00	96.36
7.794	8.019	-0.225	177	1910			5.00- 9.00	6.56

Data File: /chem/msdj.i/j-28feb.b/j022801.d
Report Date: 28-Feb-1997 08:37

Air Toxics Limited

TARGET COMPOUNDS

Client Name:
Lab Smp Id:
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: bfb
Data Type: MS DATA
Misc Info:

Client SDG: j-28feb
Client Smp ID: BFB
Sample Point:
Date Received:
Quant Type: ESTD
Level: LOW
Operator: MH

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
460-00-4	bfb	0.0	

C155

Data File: /chem/msdj.i/j-28feb.b/j022801.d

Page 3

Date : 28-FEB-97 08:37

Client ID: BFB

Instrument: msdj.i

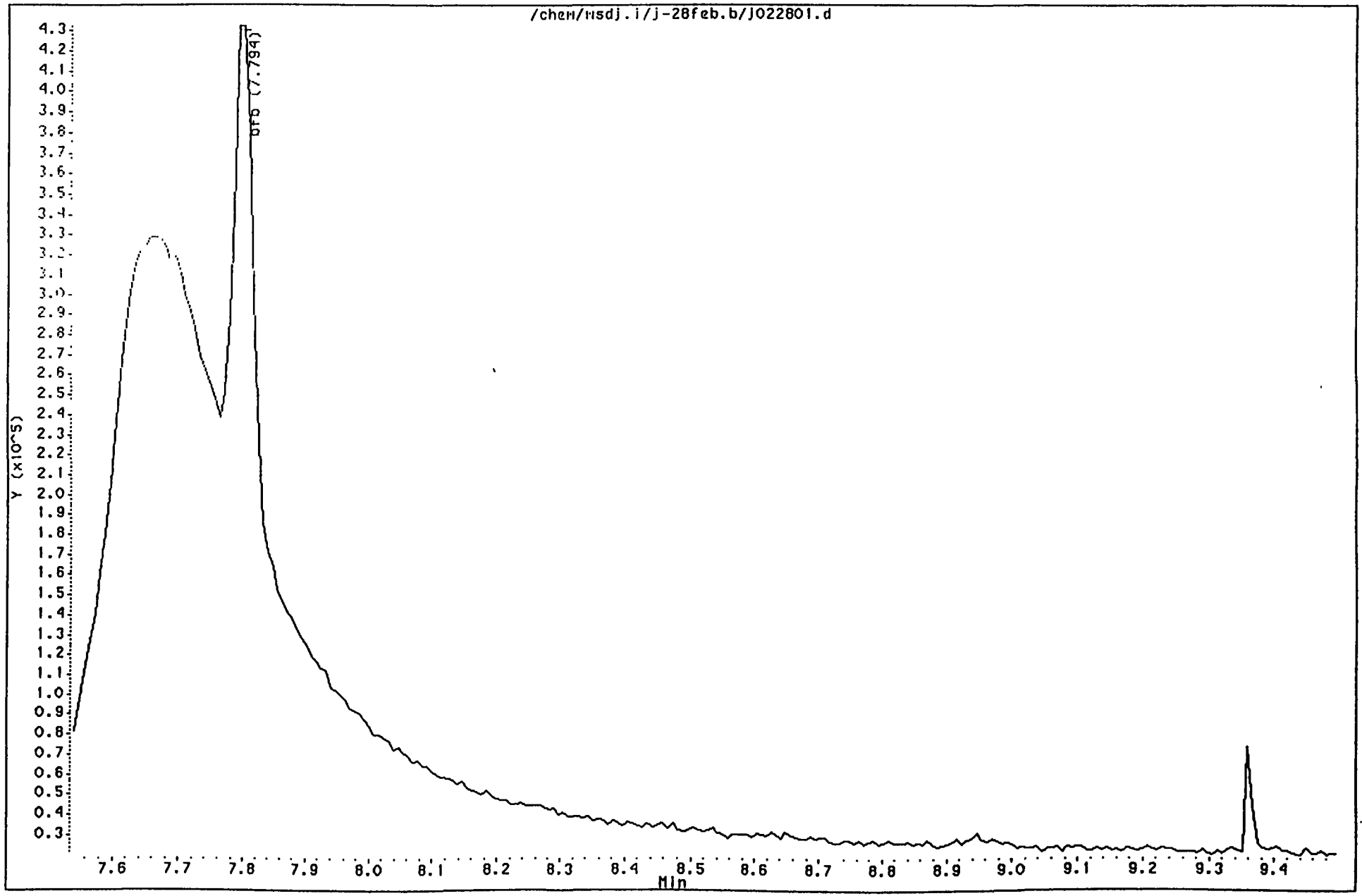
Sample Info: BFB Tune Check #275-8-25 2uL (50ng)

Volume Injected (uL): 1.0

Operator: MH

Column phase:

Column diameter: 2.00



Data File: /chem/msdj.i/j-28feb.b/j022801.d

Page 4

Date : 28-FEB-97 08:37

Client ID: BFB

Instrument: msdj.i

Sample Info: BFB Tune Check #275-8-25 2uL (50ng)

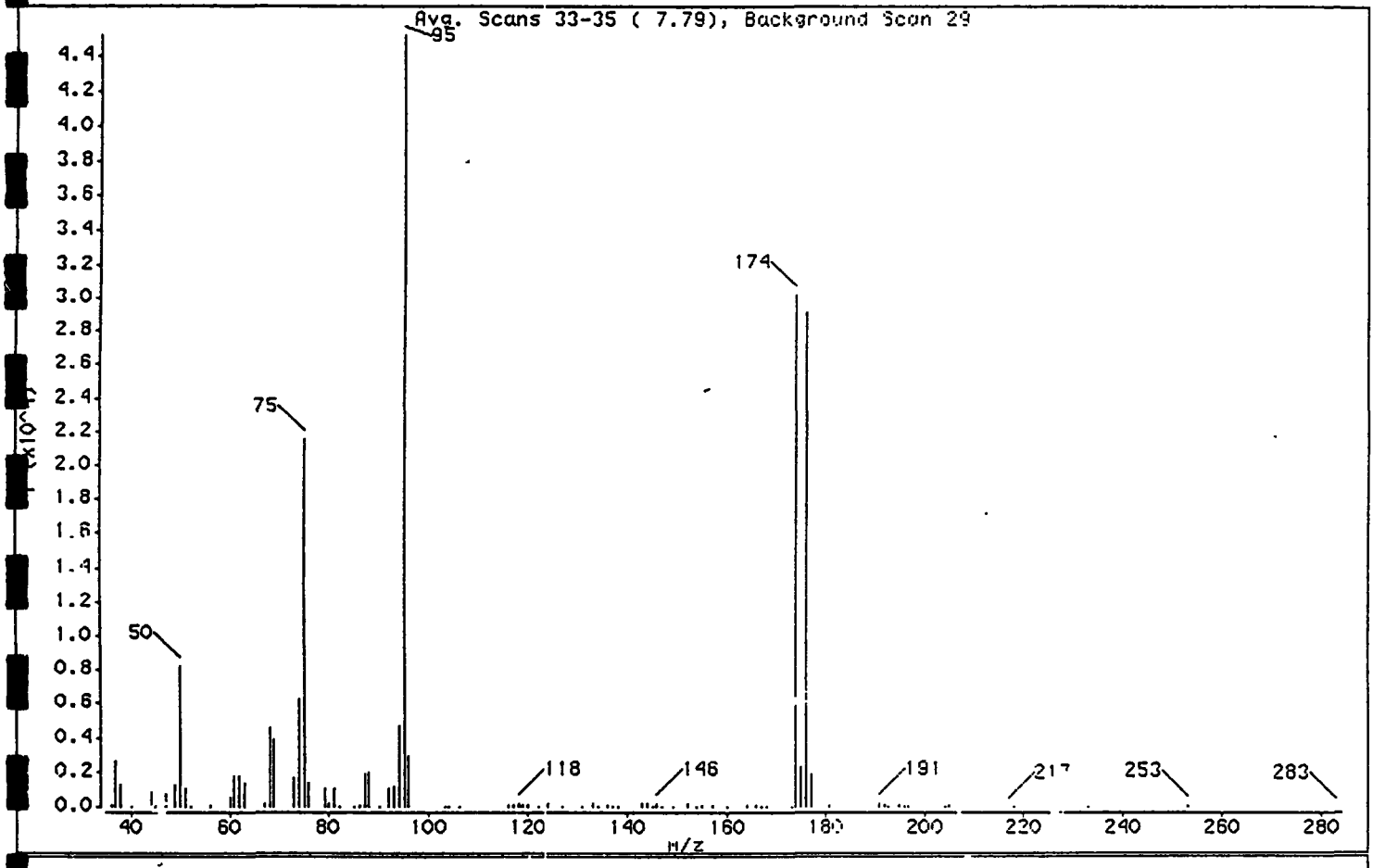
Volume Injected (uL): 1.0

Operator: MH

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.13
75	30.00 - 60.00% of mass 95	47.66
96	5.00 - 9.00% of mass 95	6.48
173	Less than 2.00% of mass 174	0.09 (0.13)
174	50.00 - 100.00% of mass 95	66.70
175	5.00 - 9.00% of mass 174	5.16 (7.74)
176	95.00 - 101.00% of mass 174	64.27 (96.36)
177	5.00 - 9.00% of mass 176	4.22 (6.56)

Data File: /chem/msdj.i/j-28feb.b/j022801.d

Date : 28-FEB-97 08:37

Client ID: BFB Instrument: msdj.i

Sample Info: BFB Tune Check #275-8-25 2uL (50ng)

Volume Injected (uL): 1.0 Operator: MH

Column phase: Column diameter: 2.00

Data File: j022801.d

Spectrum : Avg. Scans 33-35 (7.79), Background Scan 29

Largest m/z: 95.00

Number of peaks: 93

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	59	80.00	184	131.00	32	176.00	29112
37.00	2612	81.00	1020	133.00	158	177.00	1910
38.00	1285	82.00	19	134.00	1	179.00	46
40.00	18	85.00	47	136.00	75	181.00	57
44.00	834	86.00	79	137.00	20	190.00	37
45.00	185	87.00	1841	138.00	2	191.00	252
47.00	693	88.00	1992	143.00	190	192.00	92
49.00	1274	90.00	36	144.00	175	193.00	25
50.00	8212	92.00	1065	145.00	14	195.00	55
51.00	993	93.00	1130	146.00	212	196.00	40
52.00	51	94.00	4686	147.00	1	197.00	36
56.00	148	95.00	45296	149.00	42	203.00	36
60.00	528	96.00	2936	152.00	171	204.00	36
61.00	1791	103.00	16	154.00	10	205.00	79
62.00	1793	104.00	11	155.00	127	211.00	35
63.00	1383	106.00	21	157.00	110	215.00	43
67.00	237	116.00	96	160.00	34	217.00	44
68.00	4561	117.00	134	164.00	152	218.00	36
69.00	3902	118.00	214	166.00	124	233.00	41
73.00	1670	119.00	134	167.00	9	253.00	97
74.00	6242	120.00	123	168.00	32	283.00	36
75.00	21584	122.00	6	173.00	39		
76.00	1327	124.00	183	174.00	30208		
79.00	998	127.00	28	175.00	2339		

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9702192-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j022807	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 2/28/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.50	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected
Benzene	0.10	Not Detected
1,2-Dichloroethane	0.10	Not Detected
Trichloroethene	0.10	Not Detected
1,2-Dichloropropane	0.10	Not Detected
Toluene	0.10	Not Detected
Tetrachloroethene	0.10	Not Detected
Chlorobenzene	0.10	Not Detected
Ethyl Benzene	0.10	Not Detected
m,p-Xylene	0.10	Not Detected
o-Xylene	0.10	Not Detected
Styrene	0.10	Not Detected
Acetone	0.50	Not Detected
Carbon Disulfide	0.50	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	88	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	90	70-130

MH 2/28/97

Data File: /chem/msdj.i/j-28feb.b/j022807.d
Report Date: 28-Feb-1997 16:12

REVIEWED BY
MAR 3 1997
FRANCISCO AYALA

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-28feb.b/j022807.d
Lab Smp Id: Client Smp ID: Lab Blank
Inj Date : 28-FEB-1997 15:36
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#05407
Misc Info : Lab Blank
Comment :
Method : /chem/msdj.i/j-28feb.b/to140109.m
Meth Date : 28-Feb-1997 14:41 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.397	16.358 (1.000)	130	236674	5.0			100.00	9030
16.397	16.358 (0.000)	128	50406			27.69- 127.69	21.30	
16.397	16.358 (0.000)	49	133888			149.56- 249.56	56.57	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.747	17.700 (1.000)	114	1081696	5.0			100.00	9206
17.747	17.700 (0.000)	88	66656			0.00- 68.88	6.16	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.836	21.790 (1.000)	117	887142	5.0			100.00	9914
21.836	21.790 (0.000)	82	143944			13.86- 113.86	16.23	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.931	16.892 (1.033)	217	483781	4.4	4.4		100.00	8107
16.931	16.892 (0.000)	186	106832			14.61- 114.61	22.08	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.769	19.730 (1.114)	98	992511	5.1	5.1		100.00	9896
19.769	19.730 (0.000)	70	39336			0.00- 63.82	3.96	
19.769	19.730 (0.000)	100	192960			14.95- 114.95	14.44	

Data File: /chem/msdj.i/j-28feb.b/j022807.d
Report Date: 28-Feb-1997 16:12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
65 Bromofluorobenzene					CAS #: 460-00-4			
23.675	23.621 (1.084)	95	620595	4.5	4.5		100.00	8030
23.675	23.621 (0.000)	174	81752			5.46- 105.46	13.17	
23.675	23.621 (0.000)	176	80128			7.57- 107.57	12.91	

MHJ 2/28/97

Audit History For: /chem/msdj.i/j-28feb.b/j022807.d

Change Date: 28-Feb-97 16:02
Change Made by: Automation

  Parameter: ChemLan Data Transfer
  Old Value:
  New Value:
  Reason For Change: MS Data from Instrument: msdj.i

Change Date: 28-Feb-97 16:02
Change Made by: Automation

  Parameter: Target Processing
  Old Value:
  New Value: Method: /chem/msdj.i/j-28feb.b/to140109.m
  Reason For Change: Complete Target Compound Processing

Change Date: 28-Feb-97 16:08
Change Made by: mhe

  Parameter: date
  Old Value: 28-FEB-97 15:36
  New Value: 28-FEB-1997 15:36
  Reason For Change: N/A

Change Date: 28-Feb-97 16:08
Change Made by: mhe

  Parameter: Misc Information
  Old Value:
  New Value: Lab Blank
  Reason For Change: N/A

Change Date: 28-Feb-97 16:08
Change Made by: mhe

  Parameter: Sample Info
  Old Value: Lab Blank 500mL Can#05407
  New Value: 500mL Can#05407
  Reason For Change: N/A

Change Date: 28-Feb-97 16:08
Change Made by: mhe

  Parameter: Client ID
  Old Value: VSTD150
  New Value: Lab Blank
  Reason For Change: N/A

Change Date: 28-Feb-97 16:08
Change Made by: mhe

  Parameter: Target Processing
  Old Value:
  New Value: Method: /chem/msdj.i/j-28feb.b/to140109.m
  Reason For Change: Quantitation

Change Date: 28-Feb-97 16:09
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-28feb.b/to140109.m
Reason For Change: Quantitation

Change Date: 28-Feb-97 16:10
Change Made by: mhe

Parameter: Best Hit for Ethanol changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 16:10
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 16:10
Change Made by: mhe

Parameter: Manual reintegration of Acetone (Signal 1
Old Value: Old Area/Time: 25851 / 13.29
New Value: New Area/Time: 32632 / 13.29
Reason For Change: N/A

Change Date: 28-Feb-97 16:10
Change Made by: mhe

Parameter: Best Hit for Acetone changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 16:10
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 16:10
Change Made by: mhe

Parameter: Best Hit for 2-Propanol changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 28-Feb-97 16:10
Change Made by: mhe

Parameter: Manual reintegration of 2-Propanol (Signa. 1)
Old Value: No previous peak at 13.711
New Value: New Area/Time: 2346 / 13.71

Reason For Change: N/A

Change Date: 28-Feb-97 16:10
Change Made by: mhe

Parameter: Best Hit for 2-Propanol changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 16:10
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Hit for Methylene Chloride changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Manual reintegration of Methylene Chloride (Signal 1)
Old Value: No previous peak at 13.971
New Value: New Area/Time: 1960 / 13.97
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Hit for Methylene Chloride changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Hit for Benzene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Manual reintegration of Benzene (Signal 1,
Old Value: No previous peak at 17.297
New Value: New Area/Time: 6002 / 17.30
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Hit for Benzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #2
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Hit for 4-Methyl-2-pentanone changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Hit for Toluene changed
Old Value: Compound Manually Identified
New Value: New Hit #1

Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Manual reintegration of Toluene (Signal 1,
Old Value: No previous peak at 19.883
New Value: New Area/Time: 1066 / 19.88
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Hit for Toluene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Hit for Octane changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Manual reintegration of Octane (Signal 1)
Old Value: No previous peak at 19.784
New Value: New Area/Time: 4059 / 19.78
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Hit for Octane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 28-Feb-97 16:11
Change Made by: mhe

Parameter: Best Match for Unknown compound at 20.074 min. changed.
Old Value: Old match: Cyclotrisiloxane, hexamethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 28-Feb-97 16:12
Change Made by: mhe

Parameter: Best Match for Unknown compound at 23.286 min. changed.
Old Value: Old match: Acetamide, N,N-dimethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

MH 2/28/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-28feb.b/j022807.d
Lab Smp Id: Client Smp ID: Lab Blank
Inj Date : 28-FEB-1997 15:36
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#05407
Misc Info : Lab Blank
Comment :
Method : /chem/msdj.i/j-28feb.b/to140109.m
Meth Date : 28-Feb-1997 14:41 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
16.397	16.358 (1.000)	130	236674	5.0			100.00	9030
16.397	16.358 (0.000)	128	50406			27.69- 127.69	21.30	
16.397	16.358 (0.000)	49	133888			149.56- 249.56	56.57	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.747	17.700 (1.000)	114	1081696	5.0			100.00	9206
17.747	17.700 (0.000)	88	66656			0.00- 68.88	6.16	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.836	21.790 (1.000)	117	887142	5.0			100.00	9914
21.836	21.790 (0.000)	82	143944			13.86- 113.86	16.23	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.931	16.892 (1.033)	217	483781	4.4	4.4		100.00	8107
16.931	16.892 (0.000)	186	106832			14.61- 114.61	22.08	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.769	19.730 (1.114)	98	992511	5.1	5.1		100.00	9896
19.769	19.730 (0.000)	70	39336			0.00- 63.82	3.96	
19.769	19.730 (0.000)	100	192960			14.95- 114.95	19.44	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY	
65 Bromofluorobenzene					CAS #: 460-00-4				
23.675	23.621 (1.084)	95	620595	4.5	4.5		100.00	8030	
23.675	23.621 (0.000)	174	81752			5.46- 105.46	13.17		
23.675	23.621 (0.000)	176	80128			7.57- 107.57	12.91		
11 Ethanol					CAS #: 64-17-5				
12.491	12.528 (0.762)	45	1005	0.052	0.052		100.00		(a)
12.521	12.528 (0.764)	46	281			0.00- 91.33	27.96		
12.521	12.528 (0.764)	43	599			0.00- 76.37	59.60		
16 Acetone					CAS #: 67-64-1				
13.292	13.092 (0.811)	43	25851	0.28	0.28	<	100.00		(a)
13.307	13.092 (0.812)	58	6833			0.00- 79.57	26.43		
38 1,2-Dichloroethane					CAS #: 107-06-2				
17.739	17.258 (1.000)	62	44136	0.54	0.54		100.00	3513	(Q)
17.739	17.258 (0.000)	64	12901			0.00- 80.62	29.23		
47 4-Methyl-2-pentanone					CAS #: 108-10-1				
19.776	19.455 (1.114)	43	8477	0.055	0.055		100.00	1210	(aQ)
19.776	19.455 (0.000)	58	2793			0.00- 85.85	32.95		
19.776	19.455 (0.000)	85	220			0.00- 61.74	2.60		

QC Flag Legend

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

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-28feb.b/j022807.d
Lab Smp Id: Client Smp ID: Lab Blank
Inj Date : 28-FEB-1997 15:36
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#05407
Misc Info : Lab Blank
Comment :
Method : /chem/msdj.i/j-28feb.b/to140109.m
Meth Date : 28-Feb-1997 14:41 mhe
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: AT.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

ISTD	RT	AREA	AMOUNT
* 58 Chlorobenzene-d5	21.836	2974589	5.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #
Cyclotrisiloxane, hexamethyl-				CAS #: 541-05-9			
20.074	221638	0.37	0.37	59	NBS54K.l	23660	58
Acetamide, N,N-dimethyl-				CAS #: 127-19-5			
23.286	1368906	2.3	2.3	86	NBS54K.l	707	58

Data File: /chem/msdj.i/j-28feb.b/j022807.d
Report Date: 28-Feb-1997 16:09

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j022807.d
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-28feb.b/to140109.m
Misc Info: Lab Blank

Calibration Date: 02/28/97
Calibration Time: 1304
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	246183	147710	344656	236674	-3.86
40 1,4-Difluorobenzene	1105494	663296	1547692	1081696	-2.15
58 Chlorobenzene-d5	900467	540280	1260654	887142	-1.48

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	16.41	15.91	16.91	16.40	-0.07
40 1,4-Difluorobenzene	17.75	17.25	18.25	17.75	-0.02
58 Chlorobenzene-d5	21.85	21.35	22.35	21.84	-0.05

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

MH
3/3/97

Data File: /chem/msdj.i/j-28feb.b/j022807.d
Report Date: 28-Feb-1997 16:09

Air Toxics Limited

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id:
Level: LOW
Data Type: MS DATA
SpikeList File:
Client SDG: j-28feb
Fraction: VOA
Client Smp ID: Lab Blank
Operator: MH
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem/msdj.i/j-28feb.b/to140109.m
Misc Info: Lab Blank

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	4.4	88.22	60-140
$ 49 Toluene-d8	5.0	5.1	101.41	60-140
$ 65 Bromofluorobenzene	5.0	4.5	90.35	60-140

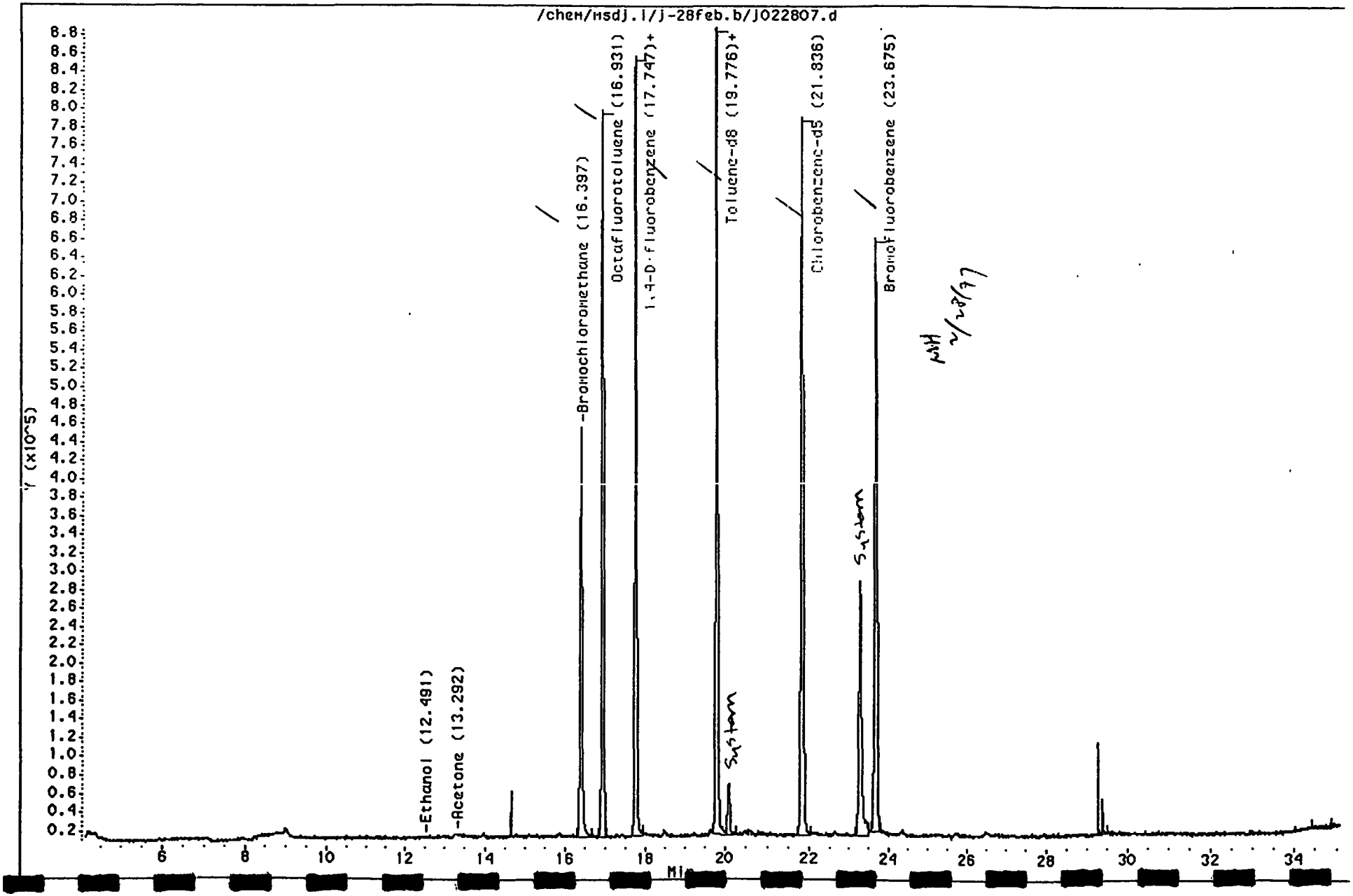
MH
3/28/97

Data File: /chem/msdj.i/j-28feb.b/j022807.d
Date : 28-FEB-1997 15:36
Client ID: Lab Blank
Sample Info: 500mL Can#05407

Column phase: RTx-624

Instrument: msdj.i

Operator: MH
Column diameter: 0.58



Data File: /chem/msdj.i/j-28feb.b/j022807.d

Date : 28-FEB-1997 15:36

Client ID: Lab Blank

Instrument: msdj.i

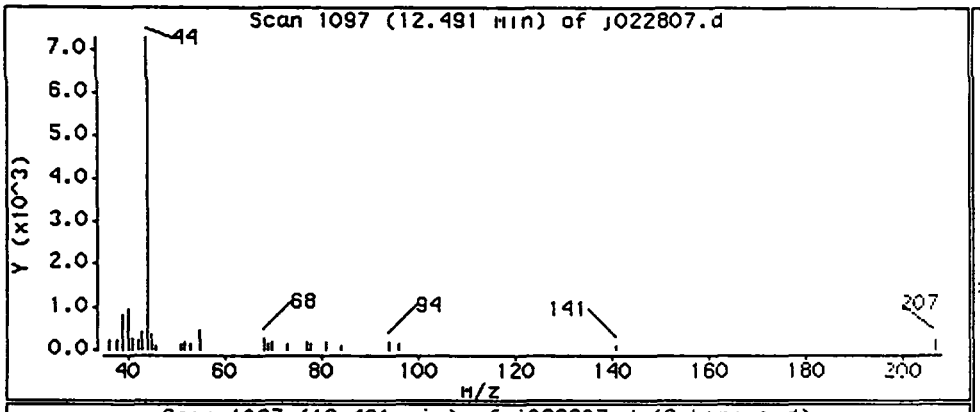
Sample Info: 500mL Can#05407

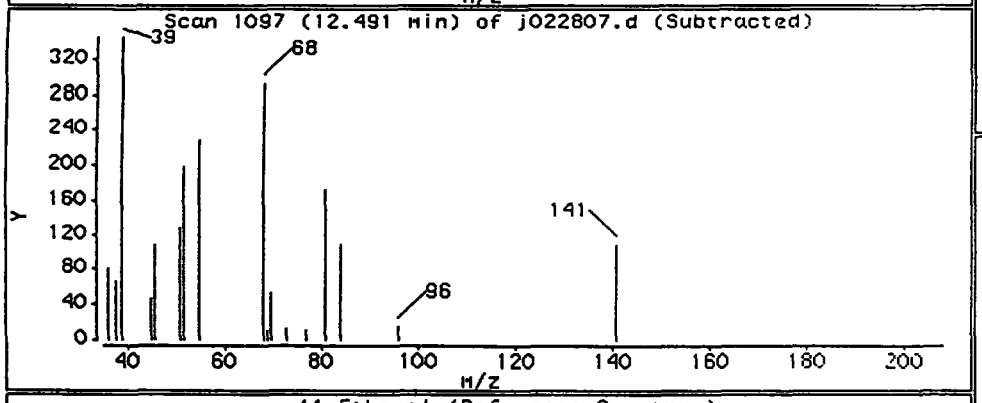
Operator: MH

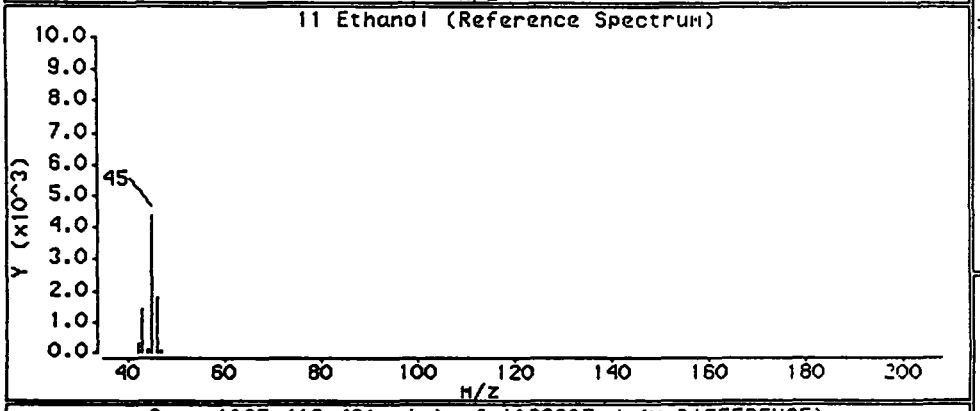
Column phase: RTx-624

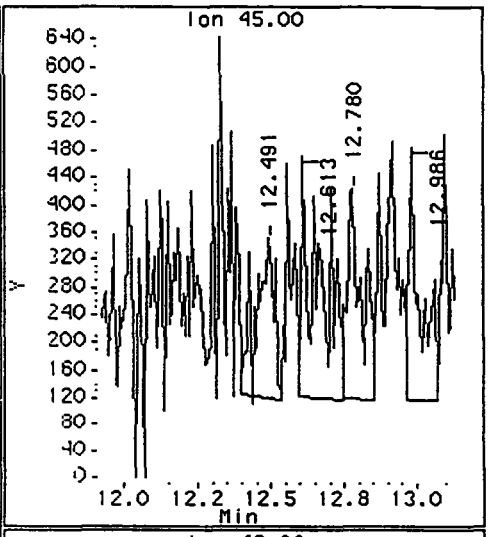
Column diameter: 0.58

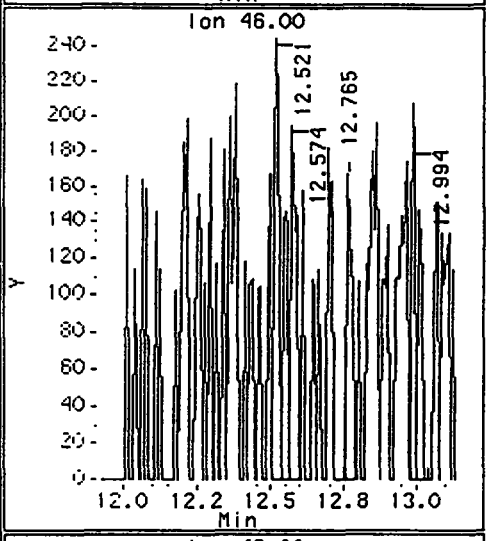
11 Ethanol

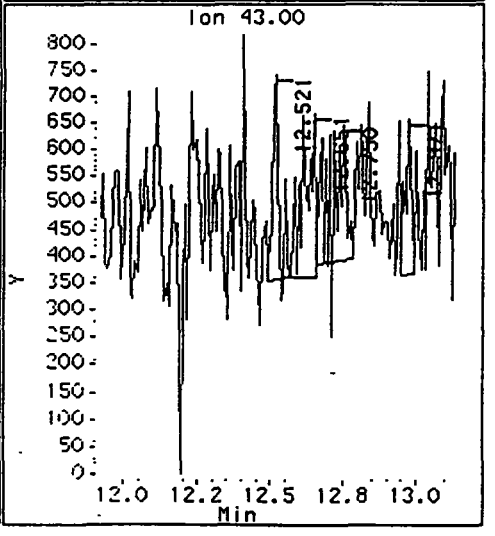












Data File: /chem/msdj.i/j-28feb.b/j022807.d

Date : 28-FEB-1997 15:36

Client ID: Lab Blank

Instrument: msdj.i

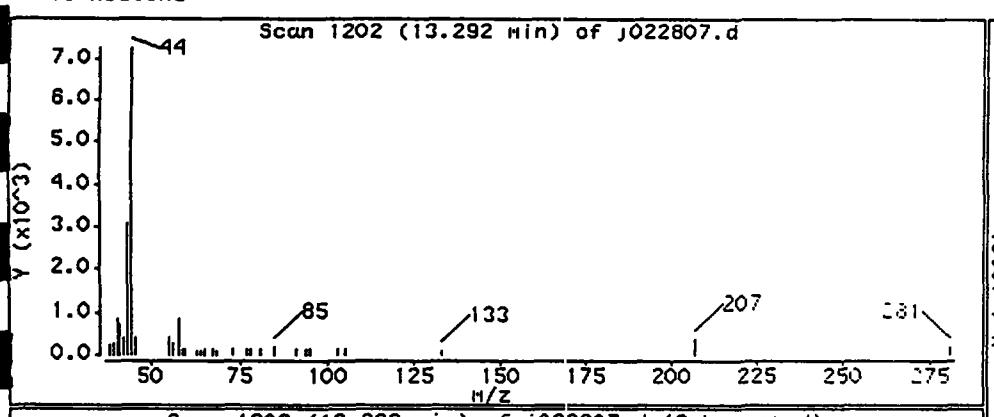
Sample Info: 500mL Can#05407

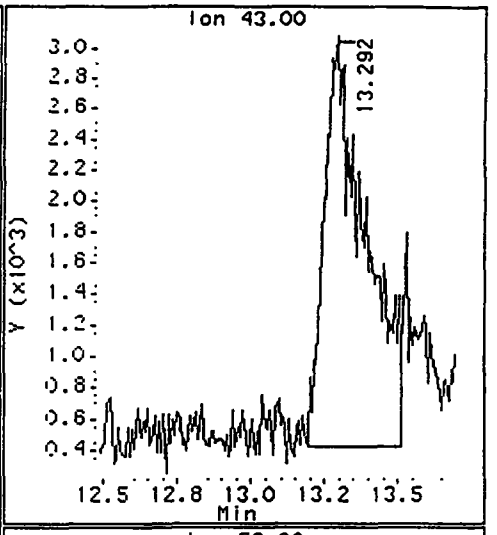
Operator: MH

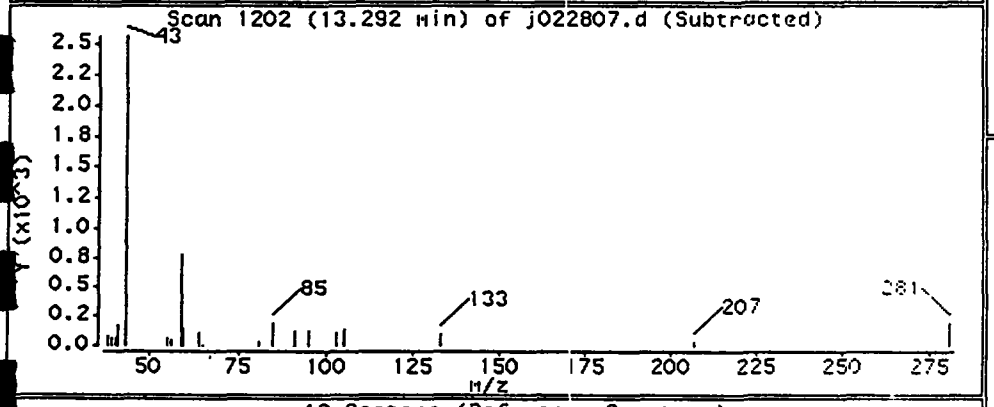
Column phase: RTx-624

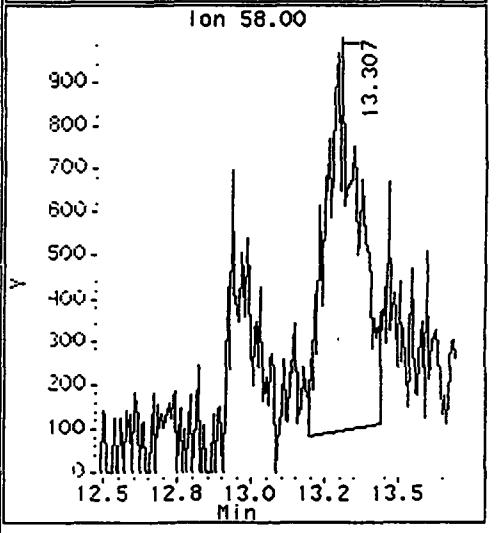
Column diameter: 0.58

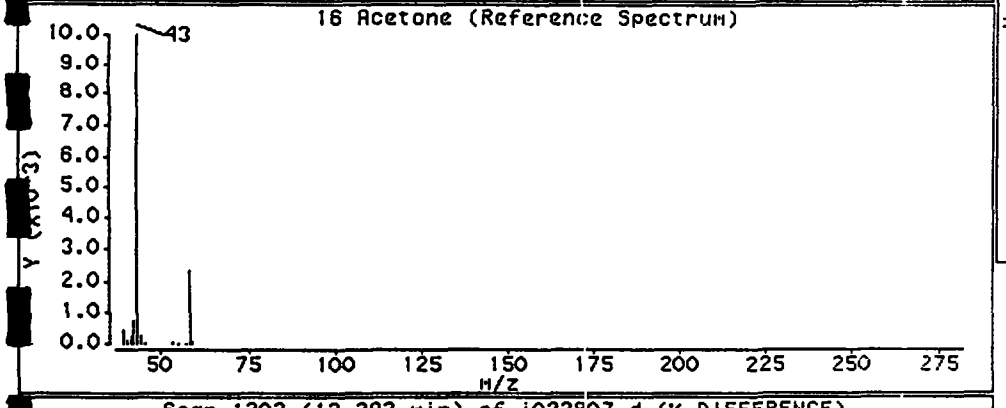
16 Acetone

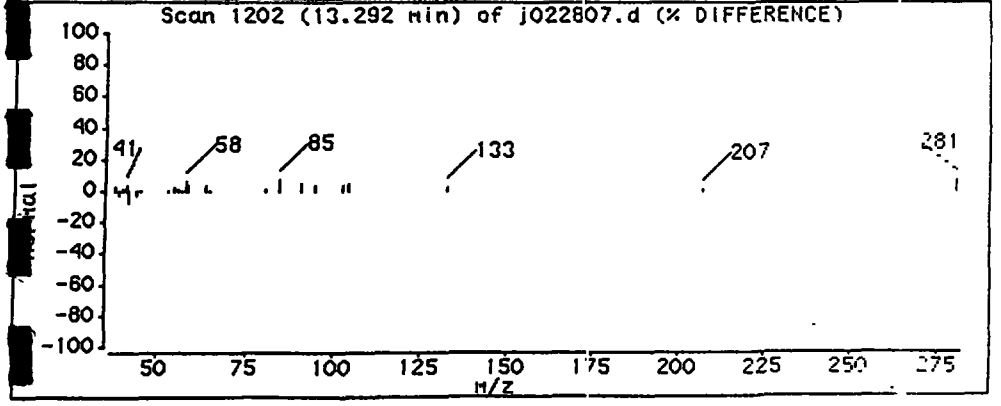












Data File: /chem/msdj.i/j-28feb.b/j022807.d

Date : 28-FEB-1997 15:36

Client ID: Lab Blank

Instrument: msdj.i

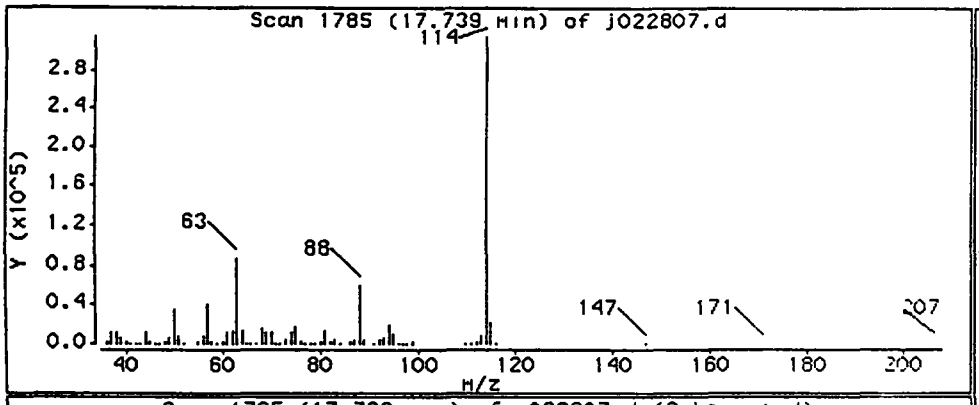
Sample Info: 500mL Can#05407

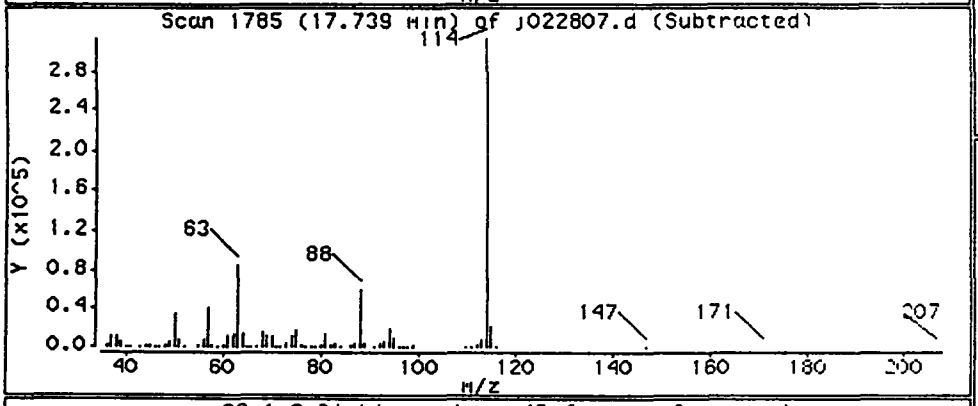
Operator: MH

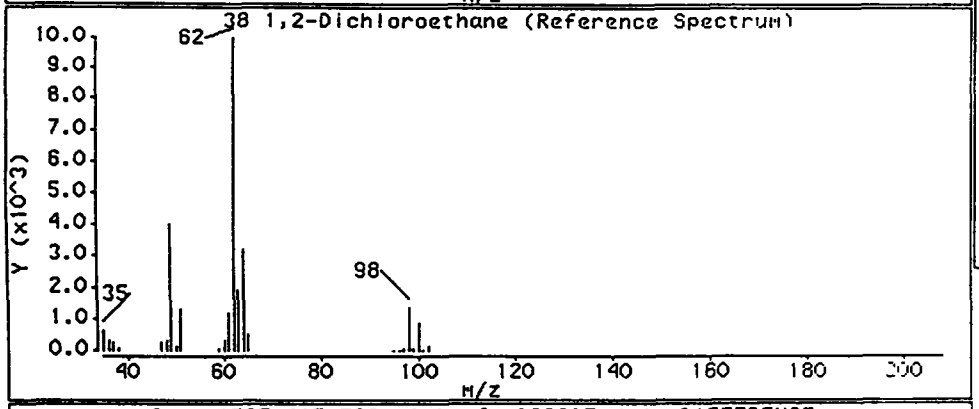
Column phase: RTx-624

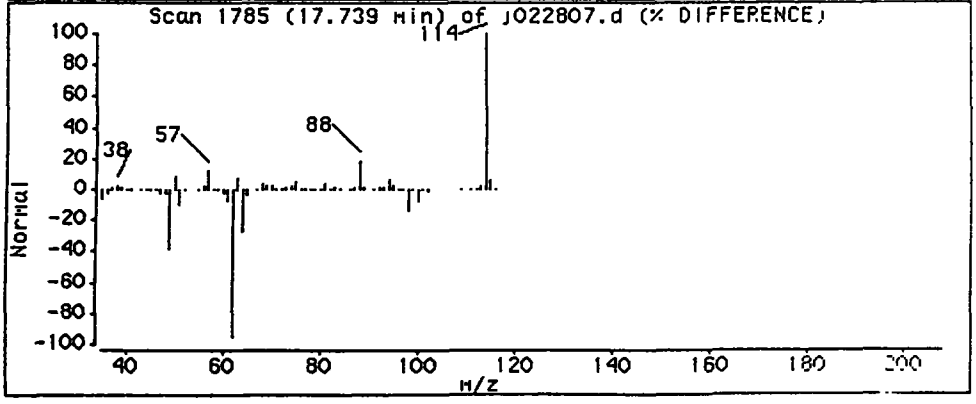
Column diameter: 0.58

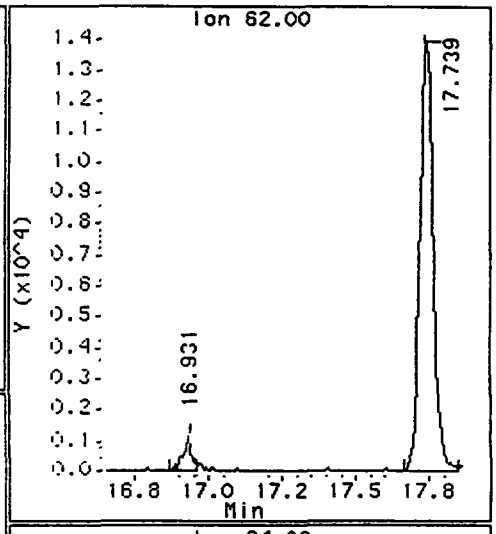
38 1,2-Dichloroethane

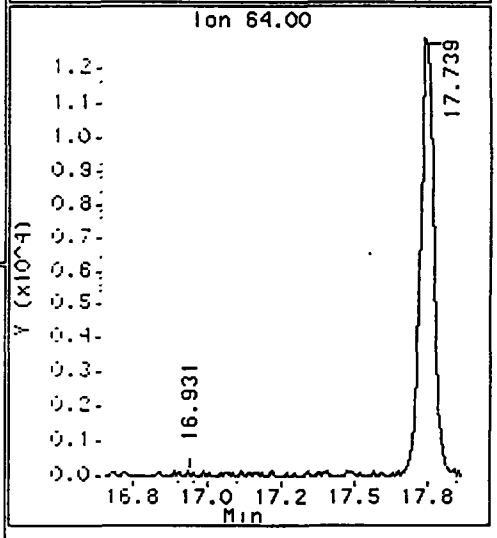












Data File: /chem/msdj.i/j-28feb.b/j022807.d

Date : 28-FEB-1997 15:36

Client ID: Lab Blank

Instrument: msdj.i

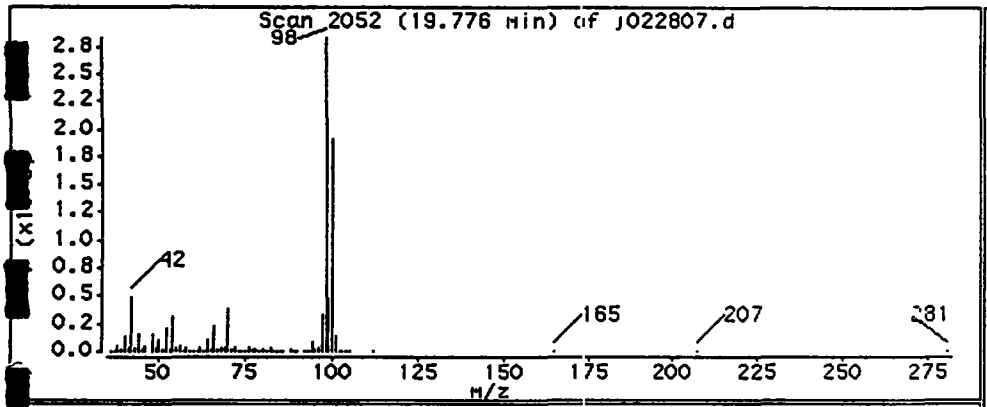
Sample Info: 500mL Can#05407

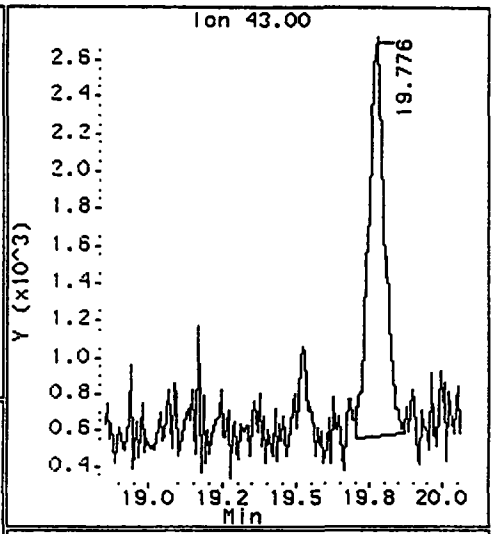
Operator: MH

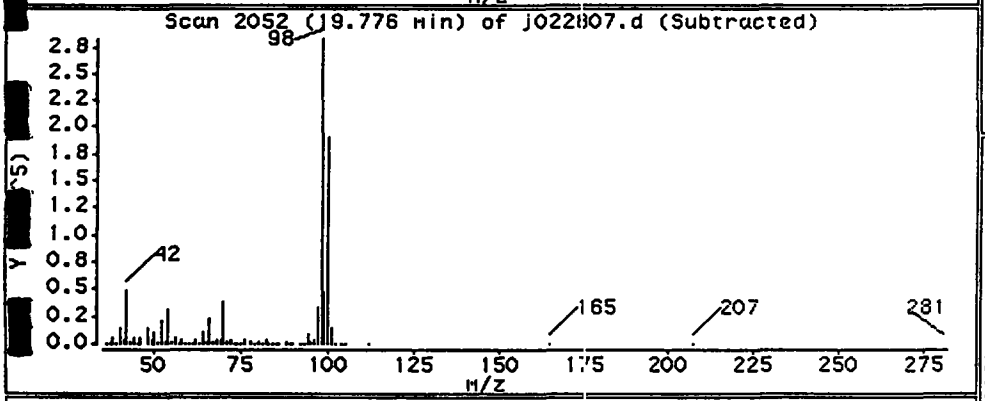
Column phase: RTx-624

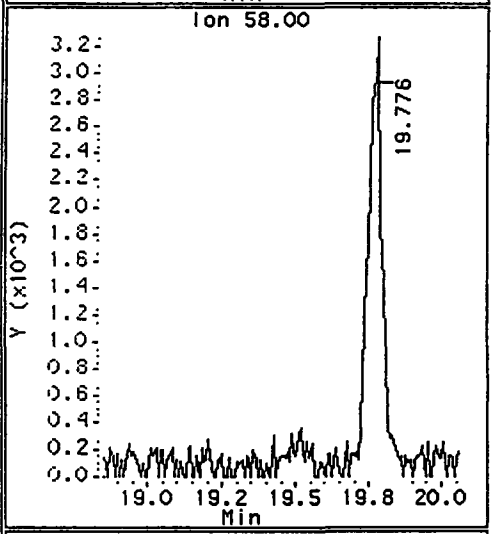
Column diameter: 0.58

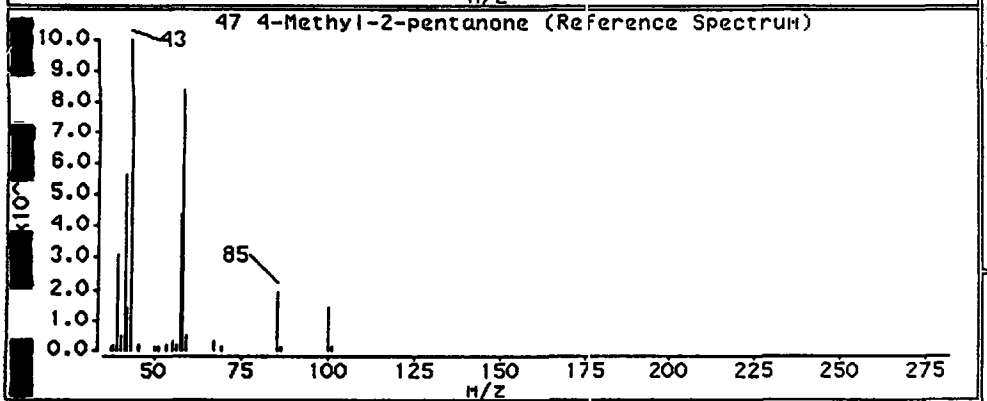
47 4-Methyl-2-pentanone

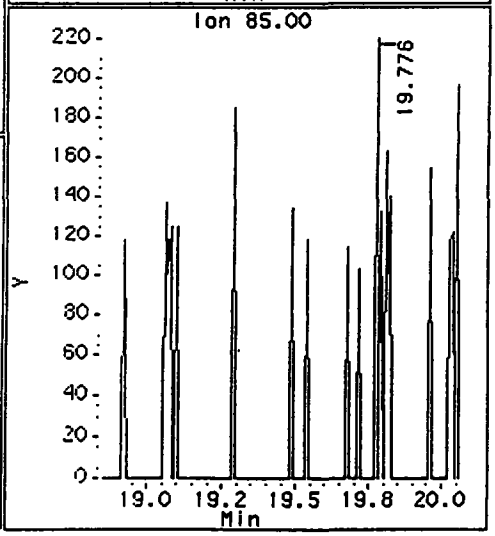


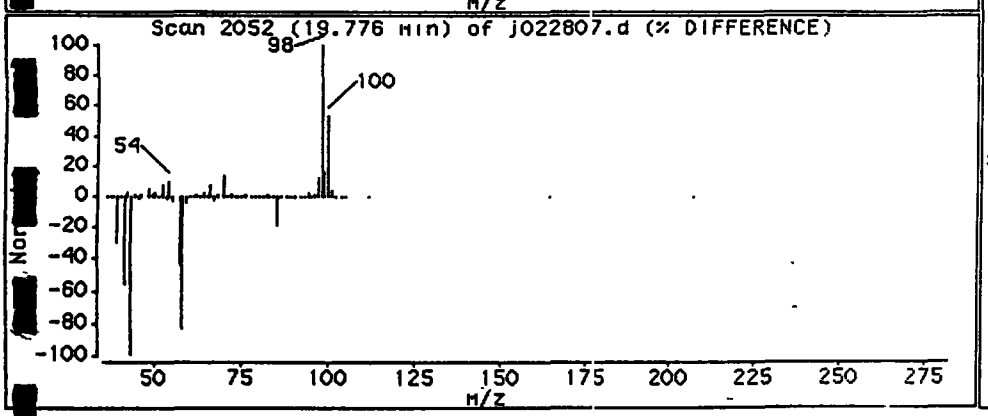






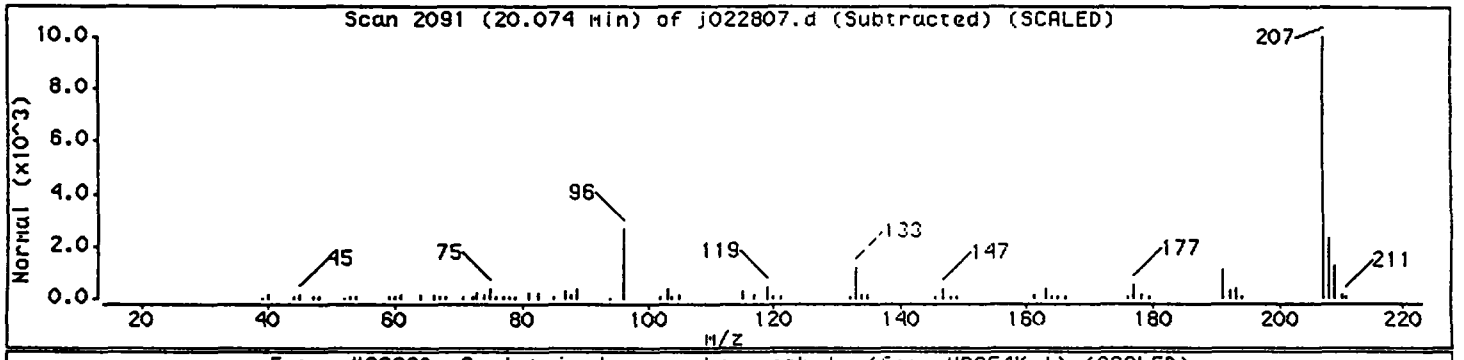


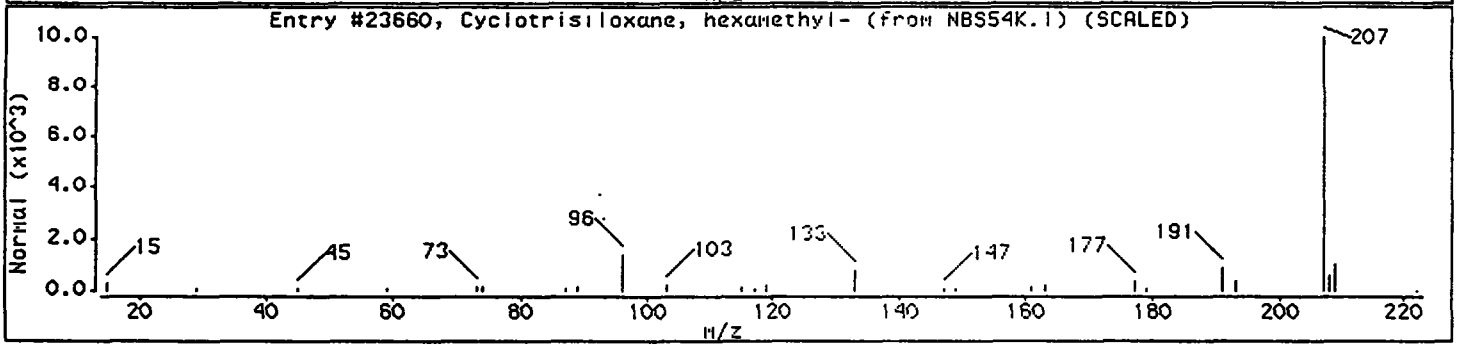




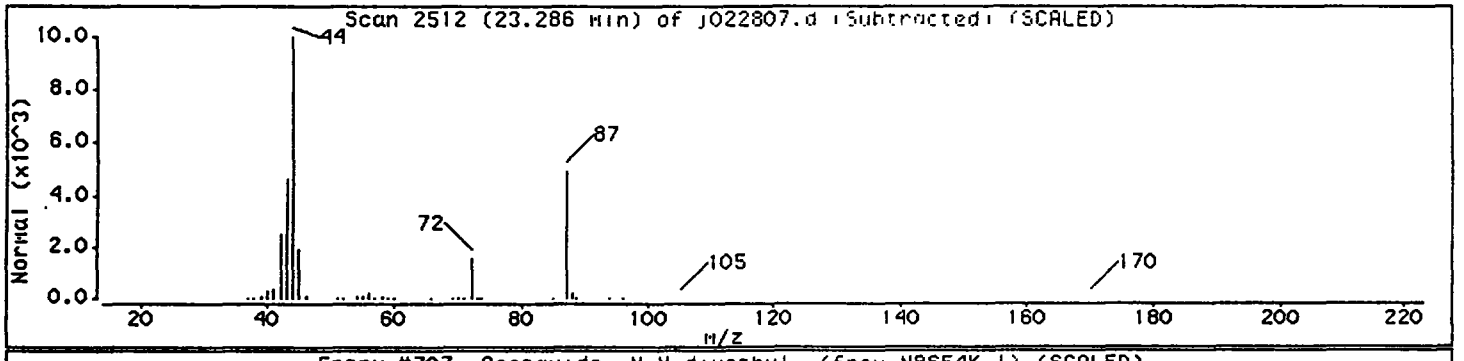
Data File: /chem/msdj.i/j-28feb.b/j022807.d
Date : 28-FEB-1997 15:36
Instrument: msdj.i
Client ID: Lab Blank
Column phase: RTx-624
Column diameter: 0.58

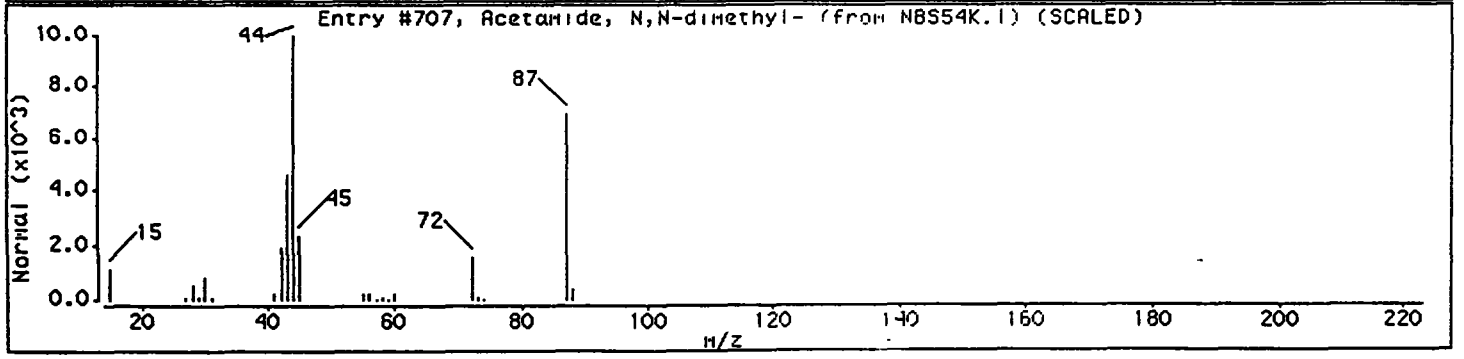
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS54K.I	23660	59





Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetamide, N,N-dimethyl-	127-19-5	NBS54K.I	707	86





C178

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

CHAIN-OF-CUSTODY RECORD

№ 009960

Page 1 of 1

Contact Person: Barbara Dye
Company: Parsons ES
Address: 9906 Gulf Freeway City: Houston State: TX Zip: 77034
Phone: 713 943 5432 FAX: 713 943 5427
Collected By: Signature: [signature]

Project info:
P.O. #: 727931-3004-00
Project #: 727931
Project Name: Bailey

Turn Around Time:
☒ Normal
☐ Rush _____ Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	022297U1	Feb 22, 97 0730-1530	TO-14, Compound list per	-30	-11	10.5" Hg
02A	022297D1	Feb 22, 97 0733-1533	contract, see ATT.	-29	-8.5	8.5" Hg

2/24/97

Relinquished By: (Signature) Date/Time: [signature] 2-22-97 1630 Print Name: Mike Steiner
Relinquished By: (Signature) Date/Time: Received By: (Signature) Date/Time:
Relinquished By: (Signature) Date/Time: Received By: (Signature) Date/Time: Scott Amerson AIR 2/25/97 1010

Notes: return
Flow Controllers & 2-30 Gages
#HT-9302L
HT-1L

Lab Use Only	Shipper Name	Air Bill #	Opened By:	Date/Time	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
	FEDEX	0150148410	[signature]	2/25/97 1010	AMBIENT	GOOD	(Yes) No None N/A	0702192

Form 1293 rev 06

U.S. ENVIRONMENTAL PROTECTION AGENCY
CONTRACT LABORATORY PROGRAM
SAMPLE RECEIPT/LOG-IN SHEET

Lab Name: AIR TOXICS LTD. Contract No.:
Lab Code: SAS No.:
Case No.: SDG No.:

ITEM	REMARKS	EPA SAMPLE NO.	SAMPLE TAG NO.	ASSIGNED LAB NO.	REC/VAC PRESS.	REMARKS: SAMP. COND.
1. Custody Seals	(Present/Absent)	022297 01	N/A	9702192-01A		Good
	(Intact/Broken)*	022297 D1	N/A	9702192-02A		Good
2. Custody Seal Numbers	(N/A)					
3. Chain of Custody Records	(Present/Absent)*					
4. Traffic Reports or	(N/A) Present/Absent*					
Packing List						
5. Airbill	(Present/Absent)*					
Airbill Numbers:	015044841 0					
6. Sample Tags	(Present/Absent)*					
Sample Tag Numbers:	(N/A) Listed/Not Listed on COC*					
7. Sample Condition	(Intact/Broken/Leaking)*					
8. Does information on COC	(Yes/No)*					
record, traffic reports, &						
sample tags agree?						
9. Date Received by Lab:	2/25/97					
10. Time Received by Lab:	1010					
SAMPLE TRANSFER						
Area #:	B					
By:						
On:	2/25/97					

*If circled, contact SMO and attach record of resolution.

Received By:
Signature: Scott Amerson
Print Name: SCOTT AMERSON

Log-in Date: 2/25/97

Reviewed By:
Signature:
Logbook No.:

Date: 3/6/97
Logbook Page No.:

FORM AADC-1-ATL

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} - [(\text{Initial Pressure ("Hg)}) (14.7 \text{ psi} / 30 \text{ "Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Vacuum ("Hg)	5 psi Final Press.	5 psi Dil. Factor	10 psi Final Press.	10 psi Dil. Factor	15 psi Final Press.	15 psi Dil. Factor
0.0		1.34		1.68		2.02
0.5		1.36		1.71		2.05
1.0		1.39		1.74		2.09
1.5		1.41		1.77		2.13
2.0		1.44		1.80		2.16
2.5		1.46		1.83		2.20
3.0		1.49		1.87		2.24
3.5		1.52		1.90		2.29
4.0		1.55		1.94		2.33
4.5		1.58		1.98		2.38
5.0		1.61		2.02		2.42
5.5		1.64		2.06		2.47
6.0		1.68		2.10		2.53
6.5		1.71		2.15		2.58
7.0		1.75		2.19		2.64
7.5		1.79		2.24		2.69
8.0		1.83		2.29		2.76
8.5		1.87		2.34		2.82
9.0		1.91		2.40		2.89
9.5		1.96		2.46		2.96
10.0		2.01		2.52		3.03
10.5		2.06		2.59		3.11
11.0		2.12		2.65		3.19
11.5		2.17		2.72		3.28
12.0		2.23		2.80		3.37
12.5		2.30		2.88		3.46
13.0		2.36		2.97		3.57
13.5		2.44		3.06		3.67
14.0		2.51		3.15		3.79
14.5		2.59		3.25		3.91
15.0		2.68		3.36		4.04
15.5		2.77		3.48		4.18
16.0		2.87		3.60		4.33
16.5		2.98		3.73		4.49
17.0		3.09		3.88		4.66
17.5		3.22		4.03		4.85
18.0		3.35		4.20		5.05
18.5		3.50		4.38		5.27
19.0		3.65		4.58		5.51
19.5		3.83		4.80		5.77
20.0		4.02		5.04		6.06
20.5		4.23		5.31		6.38
21.0		4.47		5.60		6.73
21.5		4.73		5.93		7.13
22.0		5.03		6.30		7.58
22.5		5.36		6.72		8.08
23.0		5.74		7.20		8.66
23.5		6.19		7.76		9.32
24.0		6.70		8.40		10.10
24.5		7.31		9.17		11.02
25.0		8.04		10.08		12.12
25.5		8.93		11.20		13.47
26.0		10.05		12.60		15.15
26.5		11.49		14.40		17.32
27.0		13.40		16.80		20.20
27.5		16.08		20.16		24.24
28.0		20.10		25.20		30.31
28.5		26.80		33.61		40.41
29.0		40.20		50.41		60.61

Initial Pressure (psi)	5 psi Final Press.	5 psi Dil. Factor	10 psi Final Press.	10 psi Dil. Factor	15 psi Final Press.	15 psi Dil. Factor
0.0		1.34		1.68		2.02
0.2		1.32		1.66		1.99
0.4		1.30		1.64		1.97
0.6		1.29		1.61		1.94
0.8		1.27		1.59		1.92
1.0		1.25		1.57		1.89
1.2		1.24		1.55		1.87
1.4		1.22		1.53		1.84
1.6		1.21		1.52		1.82
1.8		1.19		1.50		1.80
2.0		1.18		1.48		1.78
2.2		1.17		1.46		1.76
2.4		1.15		1.44		1.74
2.6		1.14		1.43		1.72
2.8		1.13		1.41		1.70
3.0		1.11		1.40		1.68
3.2		1.10		1.38		1.66
3.4		1.09		1.36		1.64
3.6		1.08		1.35		1.62
3.8		1.06		1.34		1.61
4.0		1.05		1.32		1.59

@ AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

WORK ORDER #: 9703097

Work Order Summary

CLIENT:	Ms. Barabara Dye Parsons Engineering Science, Inc. 9906 Gulf Freeway, Suite 100 Houston, TX 77034	**BILL TO:**	Ms. Mary Miller Parsons Engineering Science, Inc. 9906 Gulf Freeway, Suite 100 Houston, TX 77034
PHONE:	713-943-5432	**INVOICE #**	13621
FAX:	713-943-5427	**P.O. #**	727931-3004-00
DATE RECEIVED:	3/12/97	**PROJECT #**	727931 Bailey
DATE COMPLETED:	3/20/97		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.
01A	031197U2	TO-14	9.0 "Hg
02A	031197U1	TO-14	8.5 "Hg
03A	031197D1	TO-14	9.0 "Hg
04A	Lab Blank	TO-14	NA

CERTIFIED BY: Linda J. Fruman
Laboratory Director

DATE: 3/21/97

Certification numbers: CA ELAP - 1149, NY ELAP - 11291, UT ELAP - E-217

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA 95630
(916) 985-1000 • (800) 985-5955 • FAX (916) 985-1020

AIR TOXICS LTD.

SAMPLE NAME: 031197U2

ID#: 9703097-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name: 031708	Date of Collection: 3/11/97
Dil. Factor: 11.91	Date of Analysis: 3/17/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.96	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected
Benzene	0.19	1.0
1,2-Dichloroethane	0.19	Not Detected
Trichloroethene	0.19	Not Detected
1,2-Dichloropropane	0.19	Not Detected
Toluene	0.19	0.57
Tetrachloroethene	0.19	Not Detected
Chlorobenzene	0.19	Not Detected
Ethyl Benzene	0.19	Not Detected
m,p-Xylene	0.19	0.25
o-Xylene	0.19	Not Detected
Styrene	0.19	Not Detected
Acetone	0.96	4.1
Carbon Disulfide	0.96	Not Detected
trans-1,2-Dichloroethene	0.96	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.96	1.9

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130

AIR TOXICS LTD.

SAMPLE NAME: 031197U1

ID#: 9703097-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j031709	Date of Collection:	3/11/97
Dil. Factor:	1.67	Date of Analysis:	3/17/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.94	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected
Benzene	0.19	1.0
1,2-Dichloroethane	0.19	Not Detected
Trichloroethene	0.19	Not Detected
1,2-Dichloropropane	0.19	Not Detected
Toluene	0.19	0.67
Tetrachloroethene	0.19	Not Detected
Chlorobenzene	0.19	Not Detected
Ethyl Benzene	0.19	Not Detected
m,p-Xylene	0.19	0.27
o-Xylene	0.19	Not Detected
Styrene	0.19	Not Detected
Acetone	0.94	14
Carbon Disulfide	0.94	3.1
trans-1,2-Dichloroethene	0.94	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	5.1

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
Octafluorotoluene	106	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	108	70-130

AIR TOXICS LTD.

SAMPLE NAME: 031197D1

ID#: 9703097-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j03l7.10	Date of Collection:	3/11/97
Dil. Factor:	1.91	Date of Analysis:	3/17/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.96	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected
Benzene	0.19	5.0
1,2-Dichloroethane	0.19	Not Detected
Trichloroethene	0.19	Not Detected
1,2-Dichloropropane	0.19	Not Detected
Toluene	0.19	1.4
Tetrachloroethene	0.19	Not Detected
Chlorobenzene	0.19	Not Detected
Ethyl Benzene	0.19	0.22
m,p-Xylene	0.19	0.88
o-Xylene	0.19	0.55
Styrene	0.19	0.20
Acetone	0.96	5.0
Carbon Disulfide	0.96	Not Detected
trans-1,2-Dichloroethene	0.96	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.96	4.2

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	108	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9703097-04A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j031706	Date of Collection: NA
Dil. Factor:	1.00	Date of Analysis: 3/17/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.50	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected
Benzene	0.10	Not Detected
1,2-Dichloroethane	0.10	Not Detected
Trichloroethene	0.10	Not Detected
1,2-Dichloropropane	0.10	Not Detected
Toluene	0.10	Not Detected
Tetrachloroethene	0.10	Not Detected
Chlorobenzene	0.10	Not Detected
Ethyl Benzene	0.10	Not Detected
m,p-Xylene	0.10	Not Detected
o-Xylene	0.10	Not Detected
Styrene	0.10	Not Detected
Acetone	0.50	Not Detected
Carbon Disulfide	0.50	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	108	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

@ AIR TOXICS LTD.
AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

CHAIN-OF-CUSTODY RECORD

№ 010139

Page 1 of 1

Contact Person Barbara Dye
Company Parsons ES
Address 9906 Gulf Freeway City Houston State TX Zip 77034
Phone 713-943-5432 FAX 713-943-5427
Collected By: Signature

Project info:
P.O. # 727931-3004-00
Project # 727931
Project Name Bailey

Turn Around Time:
☒ Normal
☐ Rush _____ Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	031197 U2	Mar 11, 97 0833 1630	TO-14 see ATT	-30	-9	9.0"Hg
02A	031197 U1	Mar 11, 97 0833 1630	TO-14	-28	-9	8.5"Hg
03A	031197 D1	Mar 11, 97 0842 1640	TO-14	-30	-9.5	9.0"Hg
						3/12 KT

Relinquished By: (Signature) Date/Time: 3-11-97 — Print Name: Michael Striner
Relinquished By (Signature) Date/Time — Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time — Received By. (Signature) Date/Time: Scott Ameswon AIR 3/12/97 919

Notes: 3 filters
3 Flow Controllers
3 Gages

Lab Use Only

Shipper Name	Air Bill #	Opened By:	Date/Time	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
FED EX	015382233	JC	3/12/97 919	AMBIENT	GOOD	(Yes) No None N/A	9703097

Form 1293 rev. 06

LEVEL-IV VALIDATABLE

Volatile Organics Analysis
EPA Method TO-14

COMPLETE SDG FILE (CSF) DOCUMENT INVENTORY SHEET

Lab Name: Air Toxics Ltd. Contract: _____
City/State: Folsom, CA SDG: _____
Lab Code: _____ Work Order: _____

	Page Nos. From	Page Nos. To	(Please Check:) Lab	(Please Check:) Region
1. Inventory Sheet (ATL-2) (Do Not Number)			√	
2. Cover Page & Laboratory Narrative (Do Not Number)			√	
3. QC Summary				
a. Surrogate Recovery (FORM II-ATL)	–	–	–	
b. Sample Results/Sample Results Duplicate (FORM III-DUP-ATL)	–	–	–	
c. Method Blank Summary (FORM IV-ATL)	–	–	–	
d. GC/MS Instrument Performance Check (BFB Tune) (FORM V-ATL) + Run Log	1	4	√	
e. Internal Standard Area and Retention Time Summary (FORM VIII-ATL)	–	–	–	
4. Sample Results (FORM I-ATL/FORM I-TIC-ATL + Raw Data)	5	115	√	
5. Standards & Raw QC Data				
a. Initial Calibration Data (Summary Sheet + Raw Data)	116	228	√	
b. Continuing Calibration Data (Summary Sheet + Raw Data)	229	261	√	
c. BFB Tune (Raw Data)	262	271	√	
d. Blank Data (FORM I-ATL + Raw Data)	272	290	√	
6. Canister Certification (FORM ATL-3 + Raw Data)	–	–	–	
7. Shipping/Receiving Documents:				
a. Airbill (No. of Shipments ____)	–	–	–	
b. Chain-of-Custody Records	291	291	√	
c. Sample Tags	–	–	–	
d. Sample Log-In Sheet	292	292	√	
Misc. Shipping/Receiving Records (list individual records)				
_____	–	–	–	
_____	–	–	–	
8. Internal Lab Sample Transfer Records & Tracking Sheets	–	–	–	
9. Internal Original Sample Preparation & Analysis Records (describe or list):				
a. Preparation Records _____	–	–	–	
b. Analysis Records Run Logs	–	–	–	
10. Other Records (decribe or list)				
a. Telephone Communication Log	–	–	–	
b. Dilution Factors	293	293	√	
_____	–	–	–	

Comments:

_____

_____

Completed by:

Julie R Bellendir — Julie R. Bellendir / Document Control — 3/25/97

(Signature) (Print Name & Title) (Date)

FORM ATL-2

LABORATORY NARRATIVE
Analysis of VOLATILE ORGANICS by EPA Method TO-14
Work Order #9703097

Three 6L Summa™ Canister samples were received on March 12, 1997. The laboratory performed analysis via EPA Method TO-14 using a capillary direct quadrupole GC/MS in the full scan mode. The method involves cryofocusing up to 0.5 L of air at liquid argon temperatures. The cryofocused aliquot is then flash vaporized to 225°C and swept through a hydrophobic drier to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis. Please see the data sheets for the analytical detection limit. Library searching of the top ten tentatively identified compounds was not performed per the client's request.

The concentrations present in the samples were calculated using the technique of internal standards. Three internal standards (Bromochloromethane, 1,4-Difluorobenzene and Chlorobenzene-d5) were spiked at 5.0 ppbv into every standard, blank and sample. Three surrogates (Octafluorotoluene, Toluene-d8 and 4-Bromofluorobenzene) were also spiked at 5.0 ppbv.

The analytical dilution factor reported on the data sheet is derived from a combination of canister receipt vacuum and laboratory dilution. All canisters are pressurized to 5 psi (unless they are received at a pressure greater than 5psi) prior to analysis. This results in an effective dilution factor governed by the equation:

$$DF_1 = \frac{14.7 \text{ psi} + 5 \text{ psi}}{14.7 \text{ psi} - ((\text{Receipt Pressure})(14.7)/30)}$$

A table of canister pressure dilution factors appears at the end of this deliverable. Should additional dilution be required to ensure that all compounds are within the analytical curve, the additional dilution factor (DF_2) would be multiplied by the pressurization dilution factor. This would result in the dilution factor shown on the report.

$$DF_1 \times DF_2 = DF \text{ Total}$$

Laboratory duplicates, when performed, are noted by the suffix - Duplicate.

EPA Method TO-14 does not specify Initial Calibration and Continuing Calibration Check (CCC) criteria. The laboratory established criteria is that all compounds must be less than or equal to 30% RSD in the Initial Calibration Curve prior to analysis of samples. The average relative response factors from the initial calibration curve are used to calculate results. The Laboratory Standard Operating Procedure requires that 90% of the standard TO-14 target analytes must be within 70% to 130% Recovery in the CCC. For the non-standard TO-14 compounds (Acetone, Carbon Disulfide, trans-1,2-Dichloroethene and 2-Butanone), 80% must be witin 60% to 140% Recovery in the CCC. A new analytical curve is analyzed if these criteria are not met.

The laboratory used automated data transfer to create the forms found in the package. The first set of quantitation pages for each sample are the reduced data. Next, an audit history has been included to show all changes made to the unreduced data and the analyst performing the change. Finally, the unreduced quantitation pages are included.

GC/MS Calculations:

$$RRF = \frac{A_x}{A_{is}} \times \frac{C_{is}}{C_x}$$

Where: RRF - Relative Response Factor
A_x - Area of Characteristic Ion of Compound
A_{is} - Area of Characteristic Ion of Internal Standard
C_{is} - Concentration of Internal Standard
C_x - Concentration of Compound

Calculations continued on next page.

$$C_{sample} = \frac{A_{sample}}{A_{is}} \times \frac{C_{is}}{RRF} \times DF$$

Where: C_{sample} - Conc. of Compound in Sample
A_{sample} - Area of Cmpd's Ion in Sample
A_{is} - Area of Ion of Internal Std.
C_{is} - Conc. of Internal Standard
RRF - Relative Response Factor (the average RRF from the Initial Calibration Curve)
DF - Dilution Factor

All internal standard areas and retention times were within the allowed windows. All surrogate recoveries were within the allowed windows.

There were no out of the ordinary circumstances to report.

Five qualifiers may have been used on the data analysis sheets and indicate as follows:

E - Exceeds instrument calibration range, but within linear range.
S - Saturated Peak
J - Reported below the detection limit, but supported by mass spectra.
B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).
Q - Exceeds Quality Control Limits of 70% to 130%

Table 1

Client Sample No.	Lab Sample ID	Date Collected	Date Received	Date Analyzed	Receipt Vacuum ("Hg/psi)	Final Pressure (psi)
031197U2	9703097-01A	3/11/97	3/12/97	3/17/97	9.0 "Hg	5 psi
031197U1	9703097-02A	3/11/97	3/12/97	3/17/97	8.5 "Hg	5 psi
031197D1	9703097-03A	3/11/97	3/12/97	3/17/97	9.0 "Hg	5 psi

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION-
BROMOFLUOROBENZENE (BFB)

0001

Lab Name: AIR TOXICS LIMITED — SDG No: _____

Lab Code: _____ — Case: _____

Lab File ID: J010903 — BFB Injection Date: 1-9-97

Instrument ID: MSD J — BFB Injection Time: 09:07

Matrix: Ambient Air

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.19
75	30.0 - 60.0% of mass 95	45.57
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.57
173	< 2.0% of mass 174	(0.00
174	> 50.0% of mass 95	71.18
175	5.0 - 9.0% of mass 174	(6.99
176	> 95.0%, but < 101.0% of mass 174	(96.77
177	5.0 - 9.0% of mass 176	(6.97

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

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

	EPA SAMPLE ID.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED
01		≤ 296-25 (0.5 ppbv)	J010904	1-9-97	09:24
02		≤ 296-25 (0.5 ppbv)	J010905	1-9-97	10:04
03		≤ 296-25 (5.0 ppbv)	J010906	1-9-97	10:44
04		≤ 296-25 (10.0 ppbv)	J010907	1-9-97	11:27
05		≤ 296-25 (25.0 ppbv)	J010908	1-9-97	12:02
06		≤ 296-25 (50.0 ppbv)	J010909	1-9-97	12:48
07		≤ 296-25 (75.0 ppbv)	J010910	1-9-97	13:31
08		System Blank	J010911	1-9-97	14:11
09		TO14-0001 (25.0 ppbv)	J010912	1-9-97	14:51
10		System Blank	J010913	1-9-97	15:41
11		TO14-0001 (25.0 ppbv)	J010914	1-9-97	16:21
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					

FORM V-AT

OJECT [illegible] **COPY FROM ATL** Notebook No. 299

Continued From Page —

Lab #	Sample Name/Client	Can #	Pressure	Amount	D.F.	Int.
J010601	Lab Blank	94300		500.0 ml	1.0	FA
J010602	Lab Blank	94300		500.0 ml	1.0	FA
J010603	#296-25 100 ppbv	(5.0 ppbv)		25.0 ml	20.0	FA
J010604	#296-25 100 ppbv			50.0 ml	1.0	FA
J010605	Lab Blank	94300		500.0 ml	1.0	FA
				FA	1-7-97	
J010701	System Blank	Bag		250.0 ml	1.0	FA
J010702	BFB Tune Check #275-3-25			2.0 ul	1.0	FA
J010703	Can Cert.	10766		1.0L	1.0	FA
J010704	Can Cert.	05365		1.0L	1.0	FA
J010705	Can Cert.	12703		1.0L	1.0	FA
J010706	Can Cert.	14111		1.0L	1.0	FA
J010707	Can Cert.	10763		1.0L	1.0	FA
J010708	Can Cert.	05711		1.0L	1.0	FA
J010709	Can Cert.	22673		1.0L	1.0	FA
				FA	1-9-97	
J010901	Lab Blank	94300		500.0 ml	1.0	FA
J010902	Lab Blank	94300		500.0 ml	1.0	FA
J010903	BFB Tune Check #275-3-25			2.0 ul	1.0	FA
J010904	#296-25 100 ppbv	(0.1 ppbv)		0.5 ml	1.0	FA
J010905	#296-25 100 ppbv	(0.5 ppbv)		2.5 ml	1.0	FA
J010906	#296-25 100 ppbv	(5.0 ppbv)		25.0 ml	1.0	FA
J010907	#296-25 100 ppbv	(10.0 ppbv)		50.0 ml	1.0	FA
J010908	#296-25 100 ppbv	(25.0 ppbv)		125.0 ml	1.0	FA
J010909	#296-25 100 ppbv	(50.0 ppbv)		250.0 ml	1.0	FA
J010910	#296-25 100 ppbv	(75.0 ppbv)		375.0 ml	1.0	FA
J010911	System Blank	Bag		250.0 ml	1.0	FA
J010912	T014-0001 1.0 ppmv	(25.0 ppbv)		12.5 ml	4.0	FA

Continued on Page

Read and Understood By

Signed Date Signed Date

REVIEWED BY
MAR 1 8 1997
FRANCISCO AYALA

VOLATILE ORGANIC GC/MS TUNING AND MASS CALIBRATION
BROMOFLUOROBENZENE (BFB)

Lab Name: AIR TOXICS LIMITED — SDG No:
Lab Code: — Contract:
Lab File ID: J031701 — BFB Injection Date: 3-17-97
Instrument ID: MSD-J — BFB Injection Time: 8:17
Matrix: Ambient Air

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.22
75	30.0 - 60.0% of mass 95	44.62
95	Base peak, 100% relative abundance	100.00
96	5.0 - 9.0% of mass 95	6.21
173	< 2.0% of mass 174	(0.00) 1
174	> 50.0% of mass 95	78.23
175	5.0 - 9.0% of mass 174	(7.17) 1
176	> 95.0%, but < 101.0% of mass 174	(98.26) 1
177	5.0 - 9.0% of mass 176	(6.20) 2

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

THIS TUNE APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

	EPA SAMPLE ID.	LAB SAMPLE ID.	LAB FILE ID.	DATE ANALYZED	TIME ANALYZED
01		#296-73	J031702	3-17-97	8:49
02		#296-73	J031703	3-17-97	9:44
03		~~System Blank~~ MH 3/17/97 #296-73	J031704	3-17-97	10:38
04		System Blank	J031705	3-17-97	11:27
05		Lab Blank	J031706	3-17-97	12:16
06		Can #9542 Cert	J031707	3-17-97	13:02
07		970307-01A	J031708	3-17-97	13:45
08		970307-02A	J031709	3-17-97	14:29
09		970307-03A	J031710	3-17-97	15:12
10		Can #11430 Cert	J031711	3-17-97	15:56
11		Can #9519 Cert	J031712	3-17-97	16:40
12		CAN #9392 CENT	J031713	3-17-97	18:14
13		CAN CERT # 96102	J031714	3-17-97	19:13
14		CAN CERT #8914	J031715	3-17-97	20:06
15		CAN CERT # 10703	J031716	3-17-97	20:49
16					
17					
18					
19					
20					
21					
22					

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PROJECT MSD-J

Continued From Page

File #	Sample Name/Client	Can #	Pressure	Amount	Dil.	Initial
✓ J031301	BFB Tune Check #275-8-25			2 µl	1.0	MH
J031302	Lab Blank	05407		500 ml	1.0	MH
J031303	#296-73 T014 std 100ppbv Sim (15ppbv)			75 µl	1.0	MH
J031304	Blank (standby)					

Mir [signature] 3/14/97

File #	Sample Name/Client	Can #	Pressure	Amount	Dil.	Initial
✓ J031401	BFB Tune Check #275-8-25			2 µl	1.0	MH
J031402	#296-73 (Sim 15ppbv)			75 µl	1.0	MH
J031403	#296-73 (2ppbv)			10 ml	1.0	MH
J031404	#296-73 (20ppbv)			100 µl	1.0	MH
J031405	System Blank	Bag		250 ml	1.0	MH
J031406	#296-71 (2ppbv) SIM			10 ml	1.0	MH
✓ J031407	#296-71 T014 (10ppbv)			50 ml	1.0	MH
J031408	System Blank	Bag		250 ml	1.0	MH
✓ J031409	Lab Blank	05407		500 ml	1.0	MH
J031410	9703089-01A/Env. Consultants AS-21	#04589	6" → 5 psi	20 ml	1.68 x .25 = .42	MH
J031411	9703089-01A	04589	6" - 5 psi	45 mL	37.3	[illegible]
J031412	290-13-B 1007 ppmv	100 ml	~~100.7~~ 201 ppbv MH 3/17/97 ppbv	100 ml	1.0	[illegible]
J031413	SYSTEM BLANK			250 mL	1.0	[illegible]

Mir [signature] 3/1

File #	Sample Name/Client	Can #	Pressure	Amount	Dil.	Initial
✓ J031701	BFB Tune Check #275-8-25			2 µl	1.0	MH
✓ J031702	#296-73 100ppbv			50 ml	1.0	MH
✓ J031703	#296-73			50 ml	1.0	MH
J031704	#296-73			50 ml	1.0	MH
J031705	System Blank	Bag		250 ml	1.0	MH
✓ J031706	Lab Blank	05407		500 ml	1.0	MH
✓ J031707	Can Certification	9542		500 ml	1.0	MH
✓ J031708	9703097-01A/Parsons T014(S)	409	9" → 5 psi	500 ml	1.91	MH
✓ J031709	9703097-02A	14873	8.5" → 5 psi	500 ml	1.87	MH
✓ J031710	9703097-03A	11872	9" → 5 psi	500 ml	1.91	MH
✓ J031711	Can Cert. (1L)	11430		250 ml	2.0	MH
✓ J031712	Can Cert. (1L)	9519		250 ml	2.0	MH
✓ J031713	Can Cert (1L)	AT9392		250 ml	2.0	[illegible]
✓ J031714	CAN CERT	96102		500 mL	1.0	[illegible]
✓ J031715	CAN CERT	12694		500 mL	1.0	[illegible]
✓ J031716	CAN CERT	10763		500		[illegible]

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[signature] 3/17/97 [signature] 3/18/97

Signed Date Signed Date

AIR TOXICS LTD.

SAMPLE NAME: 031197U2

ID#: 9703097-01A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	031708	Date of Collection:	3/11/97
Dil. Factor:	1.91	Date of Analysis:	3/17/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.96	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected
Benzene	0.19	1.0
1,2-Dichloroethane	0.19	Not Detected
Trichloroethene	0.19	Not Detected
1,2-Dichloropropane	0.19	Not Detected
Toluene	0.19	0.57
Tetrachloroethene	0.19	Not Detected
Chlorobenzene	0.19	Not Detected
Ethyl Benzene	0.19	Not Detected
m,p-Xylene	0.19	0.25
o-Xylene	0.19	Not Detected
Styrene	0.19	Not Detected
Acetone	0.96	4.1
Carbon Disulfide	0.96	Not Detected
trans-1,2-Dichloroethene	0.96	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.96	1.9

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	104	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130

Data File: /chem/msdj.i/j-17mar.b/j031708.d
Report Date: 17-Mar-1997 14:24

MH 3/17/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-17mar.b/j031708.d
Lab Smp Id: 9703097-01A Client Smp ID: 031197U2
Inj Date : 17-MAR-1997 13:45
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#409
Misc Info : 9"Hg-5psi Parsons
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.910
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

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MAR 1 8 1997
FRANCISCO AYALA

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
15.793	15.820 (1.000)	130	188840	5.0			100.00	9212
15.793	15.820 (0.000)	128	44104			29.23- 129.23	23.36	
15.793	15.820 (0.000)	49	107408			130.39- 230.39	56.88	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.305	16.346 (1.032)	217	458725	5.2	5.2		100.00	8096
16.305	16.346 (0.000)	186	94152			13.54- 113.54	20.52	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.121	17.155 (1.000)	114	832975	5.0			100.00	9268
17.121	17.155 (0.000)	88	49144			0.00- 69.19	5.90	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.127	19.169 (1.117)	98	771698	5.1	5.1		100.00	9959
19.127	19.169 (0.000)	70	30987			0.00- 63.99	4.02	
19.127	19.169 (0.000)	100	150784			15.53- 115.53	19.54	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.172	21.229 (1.000)	117	705984	5.0			100.00	9981
21.172	21.229 (0.000)	82	122034			14.83- 114.83	17.29	

Data File: /chem/msdj.i/j-17mar.b/j031708.d
Report Date: 17-Mar-1997 14:24

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
S	65 Bromofluorobenzene					CAS #: 460-00-4			
	23.003	23.060 (1.086)	95	581332	5.3	5.3		100.00	8057
	23.003	23.060 (0.000)	174	81576			7.76- 107.76	14.03	
	23.003	23.060 (0.000)	176	81704			7.57- 107.57	14.05	
	16 Acetone					CAS #: 67-64-1			
	12.635	12.578 (0.800)	43	160837	2.2	4.1		100.00	
	12.635	12.578 (0.800)	58	49016			0.00- 79.57	30.48	
	28 2-Butanone					CAS #: 78-93-3			
	15.443	15.461 (0.978)	72	20893	1.0	1.9		100.00	7828
	15.443	15.461 (0.000)	43	29300			451.27- 551.27	140.24	
	15.443	15.461 (0.000)	57	2059			0.00- 84.11	9.85	
	37 Benzene					CAS #: 71-43-2			
	16.671	16.705 (0.974)	78	85742	0.54	1.0		100.00	9254
	16.671	16.705 (0.000)	77	5882			0.00- 74.19	6.86	
	51 Toluene					CAS #: 108-88-3			
	19.219	19.268 (1.123)	92	28736	0.30	0.57		100.00	7585
	19.219	19.268 (0.000)	91	14547			118.26- 218.26	50.62	
	61 m,p-Xylene					CAS #: 108-38-3			
	21.477	21.519 (1.014)	106	9612	0.13	0.25		100.00	
	21.462	21.519 (1.014)	91	21471			164.96- 264.96	223.38	

Audit History For: /chem/msdj.i/j-17mar.b/j031708.d

MH
3/17/97

Change Date: 17-Mar-97 14:04
Change Made by: Automation

  Parameter: ChemLan Data Transfer
  Old Value:
  New Value:
  Reason For Change: MS Data from Instrument: msdj.i

Change Date: 17-Mar-97 14:04
Change Made by: Automation

  Parameter: Target Processing
  Old Value:
  New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
  Reason For Change: Complete Target Compound Processing

Change Date: 17-Mar-97 14:08
Change Made by: mhe

  Parameter: date
  Old Value: 17-MAR-97 13:45
  New Value: 17-MAR-1997 13:45
  Reason For Change: N/A

Change Date: 17-Mar-97 14:08
Change Made by: mhe

  Parameter: Misc Information
  Old Value:
  New Value: 9"Hg-5psi Parsons
  Reason For Change: N/A

Change Date: 17-Mar-97 14:08
Change Made by: mhe

  Parameter: Compound Sublist
  Old Value: AT.sub
  New Value: Parsons.sub
  Reason For Change: N/A

Change Date: 17-Mar-97 14:08
Change Made by: mhe

  Parameter: Sample Info
  Old Value: 9703097-01A   500mL Can#409 Parsons 9"-5psi 031197U2
  New Value: 500mL Can#409
  Reason For Change: N/A

Change Date: 17-Mar-97 14:08
Change Made by: mhe

  Parameter: Lab ID
  Old Value:
  New Value: 9703097-01A
  Reason For Change: N/A

Change Date: 17-Mar-97 14:08
Change Made by: mhe

Parameter: Client ID
Old Value: VSTD150
New Value: 031197U2
Reason For Change: N/A

Change Date: 17-Mar-97 14:08
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

Change Date: 17-Mar-97 14:09
Change Made by: mhe

Parameter: Best Hit for Carbon Disulfide changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:09
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:09
Change Made by: mhe

Parameter: Best Hit for Methylene Chloride changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:09
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:09
Change Made by: mhe

Parameter: Best Hit for 1,1,1-Trichlorethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:09
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:

Reason For Change: N/A

Change Date: 17-Mar-97 14:09
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #2
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 14:09
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Best Hit for Trichloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Manual reintegration of Tetrachloroethene (Signal 1)
Old Value: No previous peak at 20.005
New Value: New Area/Time: 835 / 20.00
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Manual reintegration of Chlorobenzene (Signal 1)
Old Value: No previous peak at 21.225
New Value: New Area/Time: 1835 / 21.23
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Manual reintegration of Ethyl Benzene (Signal 1)
Old Value: Old Area/Time: 9612 / 21.48
New Value: New Area/Time: 3071 / 21.31

Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Best Hit for Ethyl Benzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Best Hit for o-Xylene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Best Hit for Styrene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 14:10
Change Made by: mhe

Parameter: Manual reintegration of Styrene (Signal 1)
Old Value: No previous peak at 22.133
New Value: New Area/Time: 3896 / 22.13
Reason For Change: N/A

Change Date: 17-Mar-97 14:11
Change Made by: mhe

Parameter: Best Hit for Styrene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:11
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:11
Change Made by: mhe

Parameter: Best Match for Unknown compound at 5.296 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 17-Mar-97 14:11
Change Made by: mhe

Parameter: Best Match for Unknown compound at 25.788 min. changed.
Old Value: Old match: Phenol
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 17-Mar-97 14:12
Change Made by: mhe

Parameter: Data Name
Old Value: /chem/msdj.i/j-17mar.b/j031708.d
New Value: /chem/msdj.i/j-17mar.b/j031708a.d
Reason For Change: Copied/Renamed Data

Change Date: 17-Mar-97 14:13
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

Change Date: 17-Mar-97 14:24
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloropropane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:24
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

MH 3/17/97

Data File: /chem/msdj.i/j-17mar.b/j031708.d
Report Date: 17-Mar-1997 14:12

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-17mar.b/j031708.d
Lab Smp Id: 9703097-01A Client Smp ID: 031197U2
Inj Date : 17-MAR-97 13:45
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#409
Misc Info : 9"Hg-5psi Parsons
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.910
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
15.793	15.820 (1.000)	130	188840	5.0			100.00	9212
15.793	15.820 (0.000)	128	44104			29.23- 129.23	77.99	
15.793	15.820 (0.000)	49	107408			130.39- 230.39	189.93	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.305	16.346 (1.032)	217	458725	5.2	5.2		100.00	8096
16.305	16.346 (0.000)	186	94152			13.54- 113.54	64.30	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.121	17.155 (1.000)	114	832975	5.0			100.00	9268
17.121	17.155 (0.000)	88	49144			0.00- 69.19	18.88	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.127	19.169 (1.117)	98	771698	5.1	5.1		100.00	9959
19.127	19.169 (0.000)	70	30987			0.00- 63.99	13.52	
19.127	19.169 (0.000)	100	150784			15.53- 115.53	65.79	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.172	21.229 (1.000)	117	705984	5.0			100.00	9981
21.172	21.229 (0.000)	82	122034			14.83- 114.83	64.53	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
58 Chlorobenzene-d5 (continued)								
21.508	21.229 (1.000)	117	1235	5.0			100.00	6686(Q)
21.508	21.229 (0.000)	82	3			14.83- 114.83	6.25	
21.584	21.229 (1.000)	117	1272	5.0			100.00	6999(Q)
21.584	21.229 (0.000)	82	165			14.83- 114.83	222.97	
65 Bromofluorobenzene					CAS #: 460-00-4			
23.003	23.060 (1.086)	95	581332	5.3	5.3		100.00	8057
23.003	23.060 (0.000)	174	81576			7.76- 107.76	56.90	
23.003	23.060 (0.000)	176	81704			7.57- 107.57	56.99	
16 Acetone					CAS #: 67-64-1			
12.635	12.578 (0.800)	43	160837	2.2	4.1		100.00	
12.635	12.578 (0.800)	58	49016			0.00- 79.57	30.48	
17 Carbon Disulfide					CAS #: 75-15-0			
12.826	12.707 (0.812)	76	54219	0.38	0.72	<	100.00	7870
20 Methylene Chloride					CAS #: 75-09-2			
13.428	13.409 (0.850)	84	4531	0.10	0.20	<	100.00	2161
13.428	13.409 (0.000)	49	1458			101.55- 201.55	120.00	
13.428	13.409 (0.000)	51	640			0.00- 96.86	52.67	
28 2-Butanone					CAS #: 78-93-3			
15.443	15.461 (0.978)	72	20893	1.0	1.9		100.00	7828
15.443	15.461 (0.000)	43	29300			451.27- 551.27	500.43	
15.443	15.461 (0.000)	57	2059			0.00- 84.11	35.17	
15.168	15.461 (0.960)	72	34920	1.7	3.2		100.00	4544(Q)
15.168	15.461 (0.000)	43	14987			451.27- 551.27	154.39	
15.168	15.461 (0.000)	57	4064			0.00- 84.11	41.87	
15.885	15.461 (1.006)	72	1467	0.070	0.13		100.00	3614(aQ)
15.885	15.461 (0.000)	43	322			451.27- 551.27	77.97	
15.885	15.461 (0.000)	57	54			0.00- 84.11	13.08	
33 1,1,1-Trichloroethane					CAS #: 71-55-6			
16.152	16.186 (1.023)	97	5027	0.057	0.11	<	100.00	7104(a)
16.152	16.186 (0.000)	99	1007			14.04- 114.04	69.11	
37 Benzene					CAS #: 71-43-2			
16.671	16.705 (0.974)	78	85742	0.54	1.0		100.00	9254
16.671	16.705 (0.000)	77	5882			0.00- 74.19	23.29	
38 1,2-Dichloroethane					CAS #: 107-06-2			
17.113	16.713 (1.000)	62	34709	0.56	1.1		100.00	3485(Q)

Data File: /chem/msdj.i/j-17mar.b/j031708.d
Report Date: 17-Mar-1997 14:12

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
38 1,2-Dichloroethane (continued)								
17.113	16.713 (0.000)	64	9484			0.00- 81.75	90.03	
16.663	16.713 (0.973)	62	1428	0.023	0.044	<	100.00	2661(a)
16.663	16.713 (0.000)	64	82			0.00- 81.75	19.16	
41 Trichloroethene					CAS #: 79-01-6			
17.510	17.552 (1.023)	95	3104	0.051	0.098	<	100.00	7776(a)
17.510	17.552 (0.000)	130	852			37.96- 137.96	90.83	
17.510	17.552 (0.000)	97	417			15.85- 115.85	44.46	
43 1,2-Dichloropropane					CAS #: 78-87-5			
17.403	17.865 (1.016)	63	1962	0.036	0.068		100.00	4413(aQ)
17.403	17.865 (0.000)	62	117			24.32- 124.32	63.59	
17.403	17.865 (0.000)	41	0			11.72- 111.72	0.00	
51 Toluene					CAS #: 108-88-3			
19.219	19.268 (1.123)	92	28736	0.30	0.57		100.00	7585
19.219	19.268 (0.000)	91	14547			118.26- 218.26	176.22	
60 Ethyl Benzene					CAS #: 100-41-4			
21.477	21.366 (1.014)	106	9612	0.13	0.24		100.00	(Q)
21.462	21.366 (1.014)	91	21471			296.25- 396.25	223.37	
61 m,p-Xylene					CAS #: 108-38-3			
21.477	21.519 (1.014)	106	9612	0.13	0.25		100.00	
21.462	21.519 (1.014)	91	21471			164.96- 264.96	223.37	
62 o-Xylene					CAS #: 95-47-6			
22.118	22.168 (1.045)	106	3329	0.074	0.14	<	100.00	8102(a)
22.118	22.168 (0.000)	91	2110			176.02- 276.02	241.14	

QC Flag Legend

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

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-17mar.b/j031708.d
Lab Smp Id: 9703097-01A Client Smp ID: 031197U2
Inj Date : 17-MAR-97 13:45
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#409
Misc Info : 9"Hg-5psi Parsons
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.910 Target Version: 3.12
Integrator: HP RTE Compound Sublist: Parsons.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

STD		RT	AREA	AMOUNT
* 30	Bromochloromethane	15.793	1248088	5.000
58	Chlorobenzene-d5	21.172	2434149	5.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.296	2996333	12.0	22.9	0		0	30
Metaldehyde				CAS #: 75-07-0			
9.232	744773	3.0	5.7	86	NBS54K.l	37	30
Butane, 2-methyl-				CAS #: 78-78-4			
10.674	546451	2.2	4.2	78	NBS54K.l	272	30
Pentane				CAS #: 109-66-0			
11.437	1109224	4.4	8.5	86	NBS54K.l	271	30

Data File: /chem/msdj.i/j-17mar.b/j031708.d
Report Date: 17-Mar-1997 14:12

RT	AREA	CONCENTRATIONS ON-COL(PPBV)	CONCENTRATIONS FINAL(PPBV)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Unknown					CAS #:		
13.894	642020	2.6	4.9	0		0	30
Hexane					CAS #: 110-54-3		
14.306	451830	1.8	3.4	91	NBS54K.l	687	30
Silanol, trimethyl-					CAS #: 1066-40-6		
15.267	432417	1.7	3.3	59	NBS54K.l	840	30
Cyclotrisiloxane, hexamethyl-					CAS #: 541-05-9		
19.433	1878676	3.8	7.4	64	NBS54K.l	23660	58
Unknown					CAS #:		
22.324	374795	0.77	1.5	0		0	58
Ethanol, 2-butoxy-					CAS #: 111-76-2		
22.538	2320715	4.8	9.1	59	NBS54K.l	3137	58
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
22.782	501578	1.0	2.0	72	NBS54K.l	35637	58
Octanal					CAS #: 124-13-0		
24.628	427103	0.88	1.7	72	NBS54K.l	4486	58
1-Hexanol, 2-ethyl-					CAS #: 104-76-7		
25.299	757430	1.6	3.0	64	NBS54K.l	4822	58
Phenol					CAS #: 108-95-2		
25.788	671170	1.4	2.6	86	NBS54K.l	933	58
Nonanal					CAS #: 124-19-6		
27.245	422967	0.87	1.6	50	NBS54K.l	6942	58

Data File: /chem/msdj.i/j-17mar.b/j031708.d
Report Date: 17-Mar-1997 14:12

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j031708.d
Lab Smp Id: 9703097-01A
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-17mar.b/to140109.m
Misc Info: 9"Hg-5psi Parsons

Calibration Date: 03/17/97
Calibration Time: 0849
Client Smp ID: 031197U2
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	234650	140790	328510	188840	-19.52
40 1,4-Difluorobenzene	1091071	654643	1527499	832975	-23.66
58 Chlorobenzene-d5	904693	542816	1266570	705984	-21.96

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	15.78	15.28	16.28	15.79	0.11
40 1,4-Difluorobenzene	17.11	16.61	17.61	17.12	0.06
58 Chlorobenzene-d5	21.18	20.68	21.68	21.17	-0.02

MH 3/17/97

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdj.i/j-17mar.b/j031708.d
Report Date: 17-Mar-1997 14:12

Air Toxics Limited

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 9703097-01A
Level: LOW
Data Type: MS DATA
SpikeList File:
Client SDG: j-17mar
Fraction: VOA
Client Smp ID: 031197U2
Operator: MH
SampleType: SAMPLE
Quant Type: ISTD
Method File: /chem/msdj.i/j-17mar.b/to140109.m
Misc Info: 9"Hg-5psi Parsons

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	5.2	104.84	60-140
$ 49 Toluene-d8	5.0	5.1	102.39	60-140
$ 65 Bromofluorobenzene	5.0	5.3	106.35	60-140

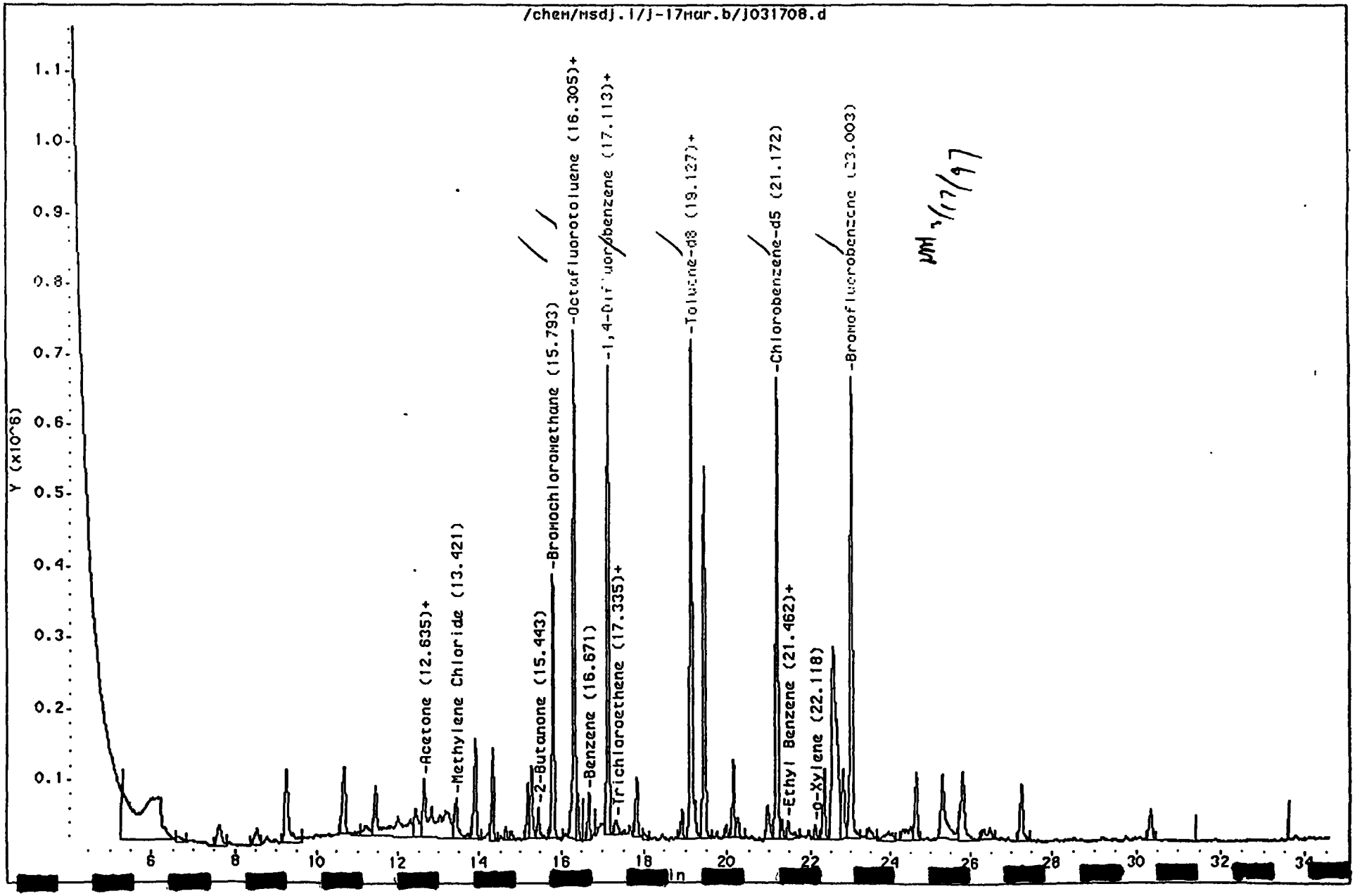
MH
3/17/97

Data File: /chem/msdj.i/j-17mar.b/j031708.d
Date : 17-MAR-97 13:45
Client ID: 031197U2
Sample Info: 500mL Can#409

Column phase: RTx-624

Instrument: msdj.i

Operator: MH
Column diameter: 0.58



Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

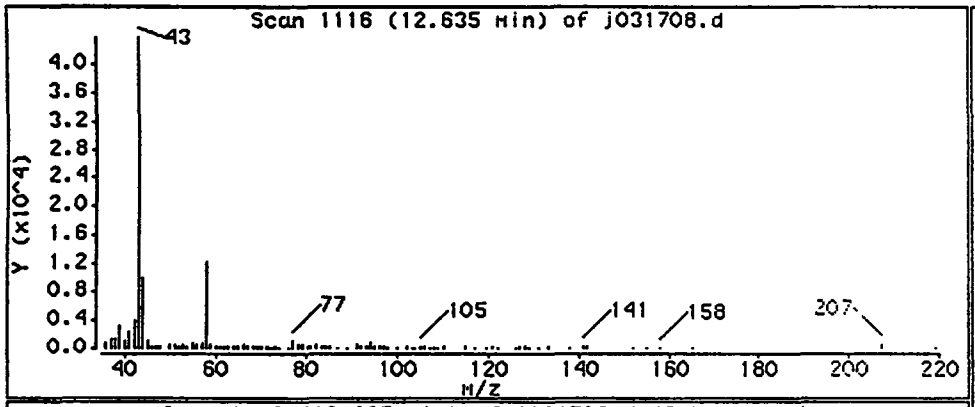
Sample Info: 500mL Can#409

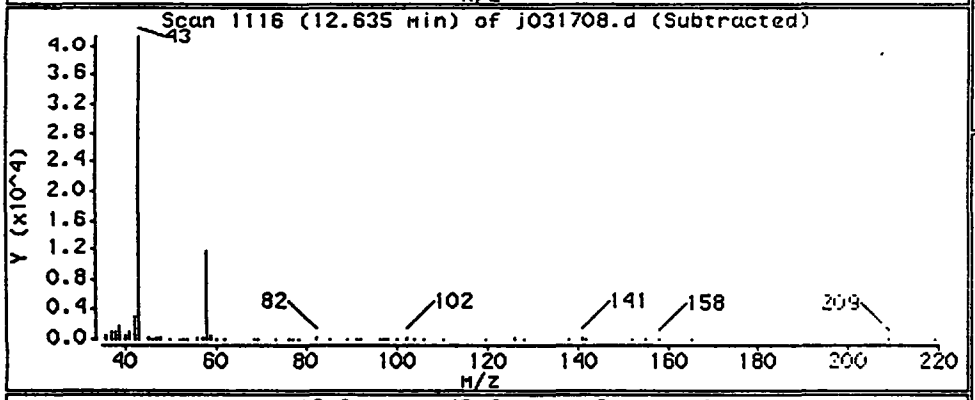
Operator: MH

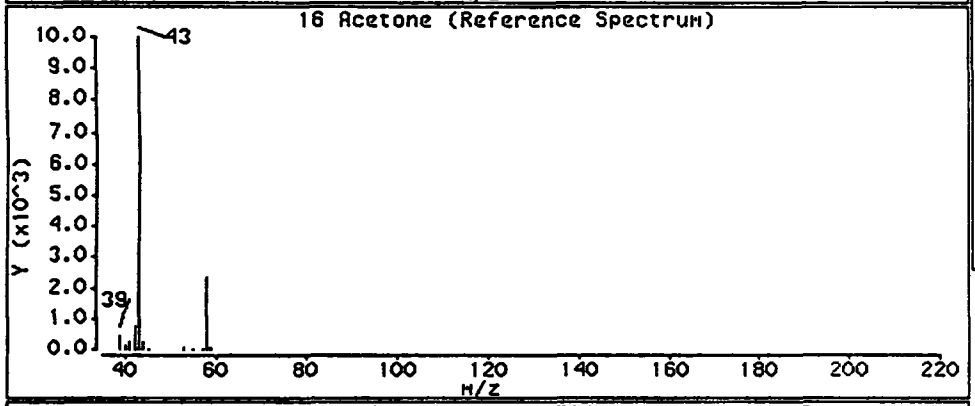
Column phase: RTx-624

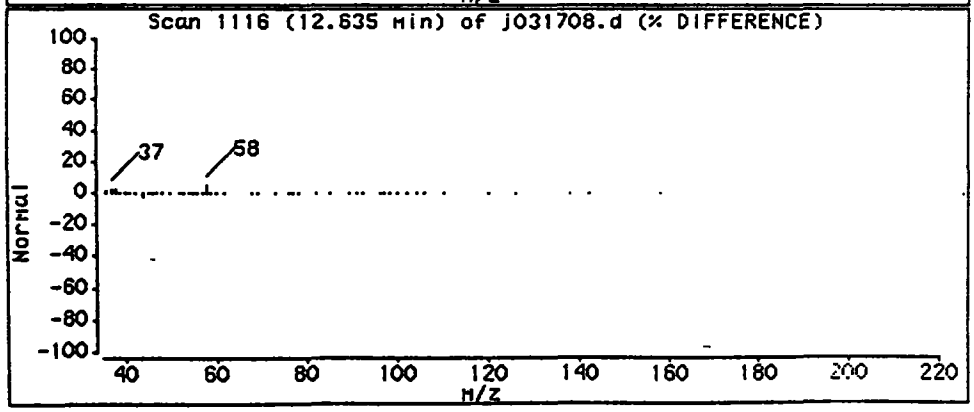
Column diameter: 0.58

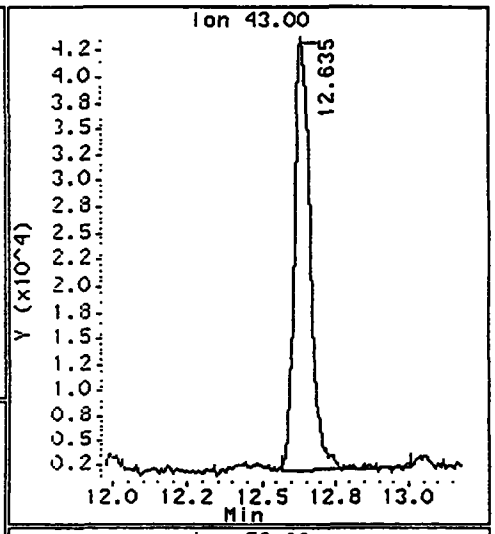
16 Acetone

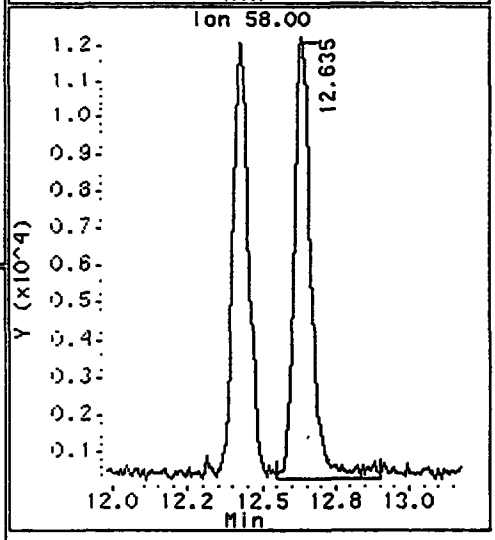












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

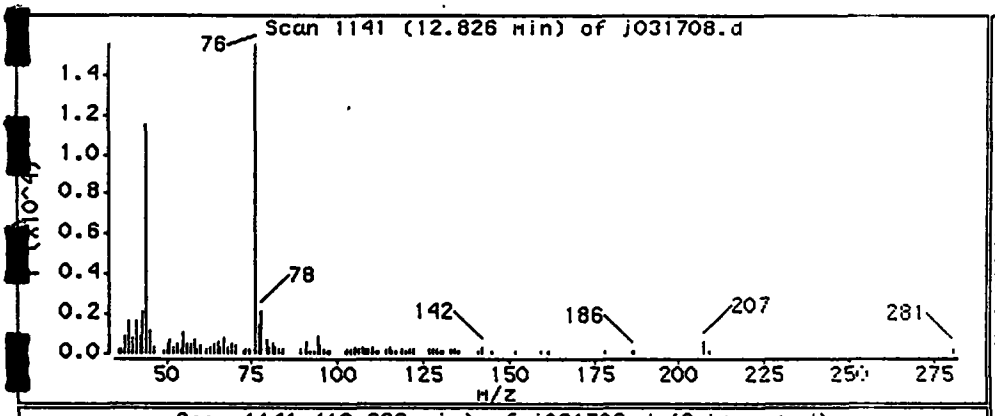
Sample Info: 500mL Can#409

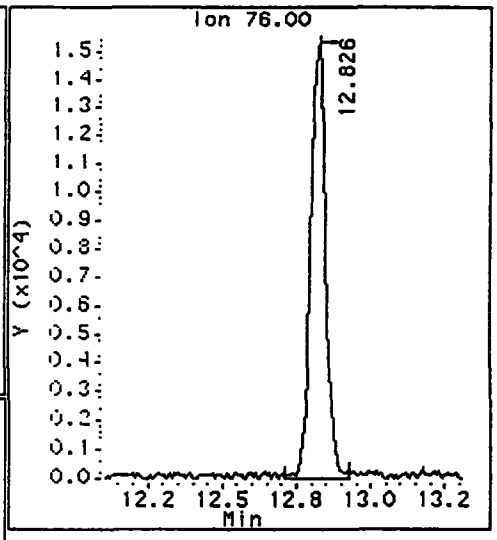
Operator: MH

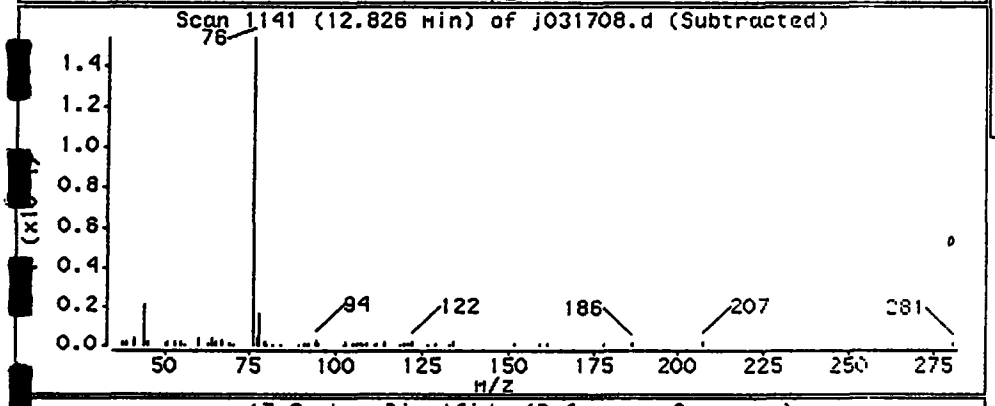
Column phase: RTx-624

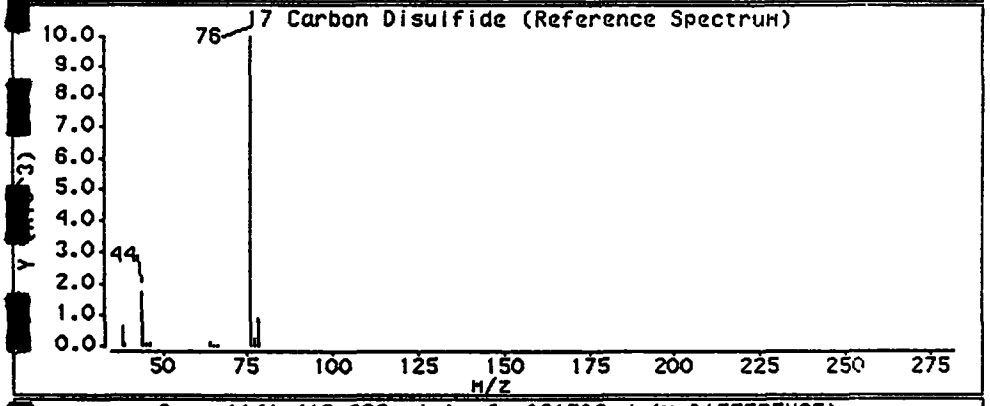
Column diameter: 0.58

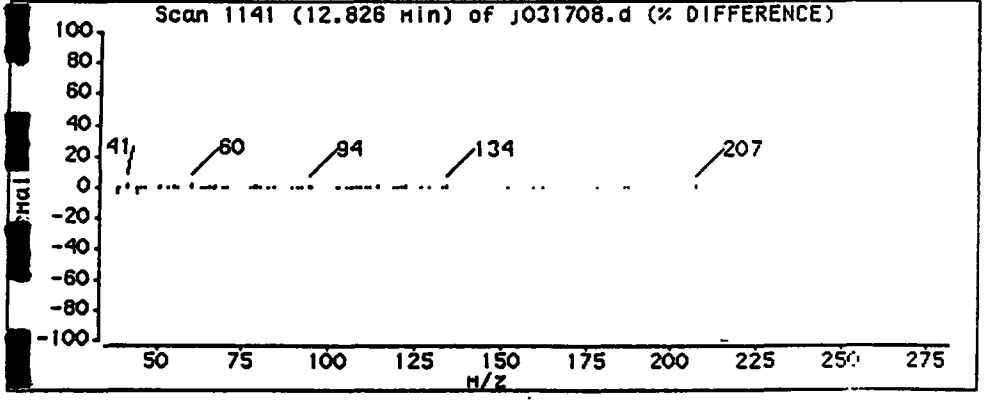
17 Carbon Disulfide











Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

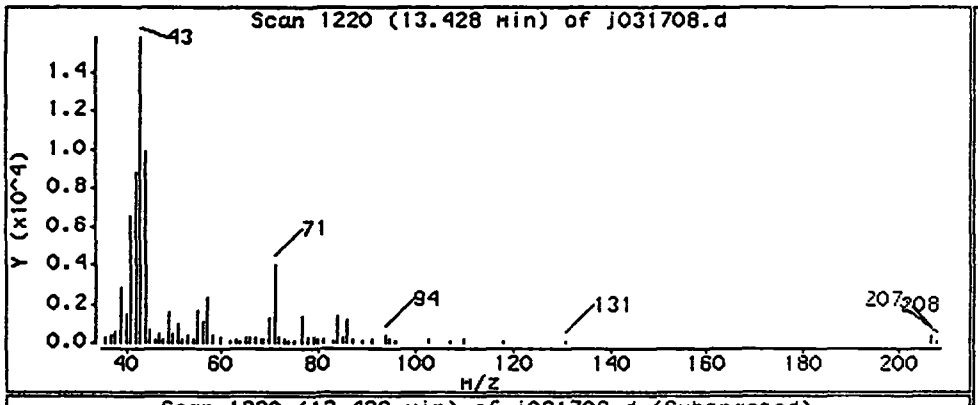
Sample Info: 500mL Can#409

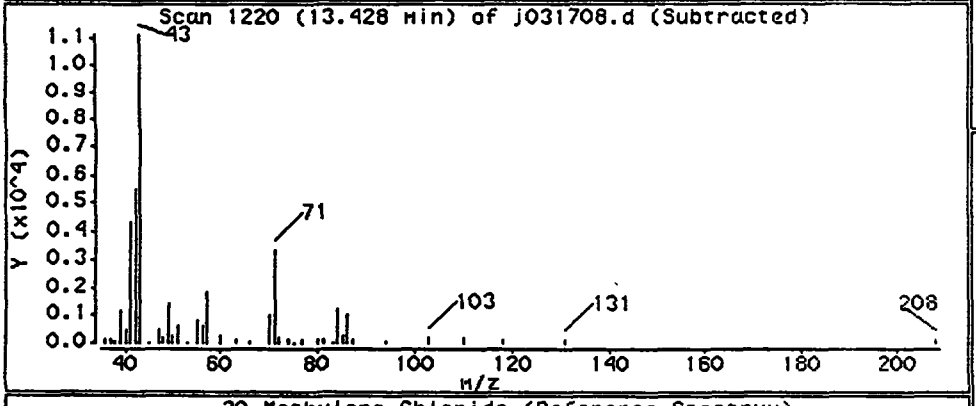
Operator: MH

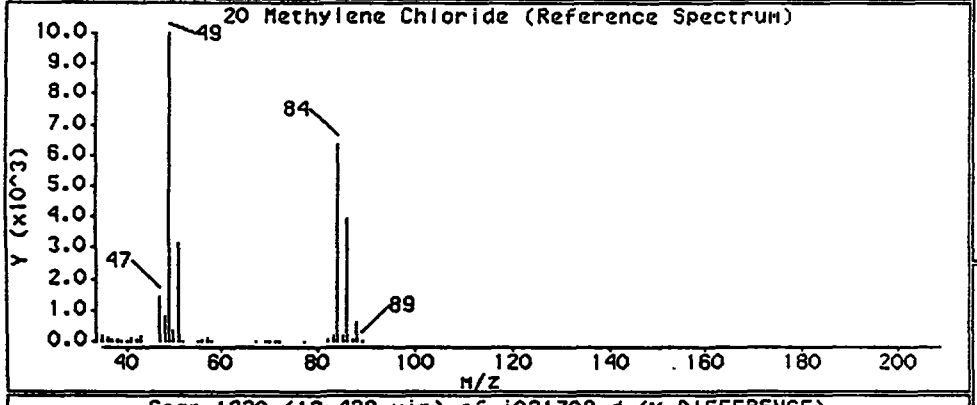
Column phase: RTx-624

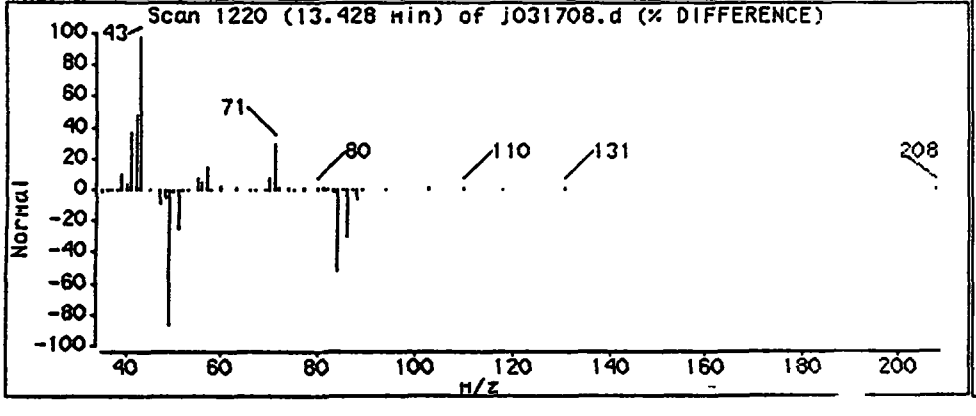
Column diameter: 0.58

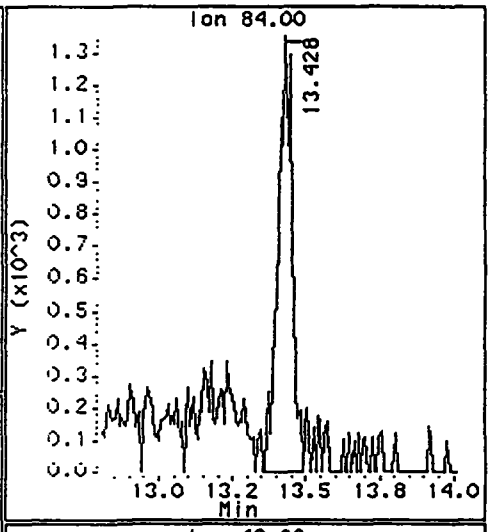
20 Methylene Chloride

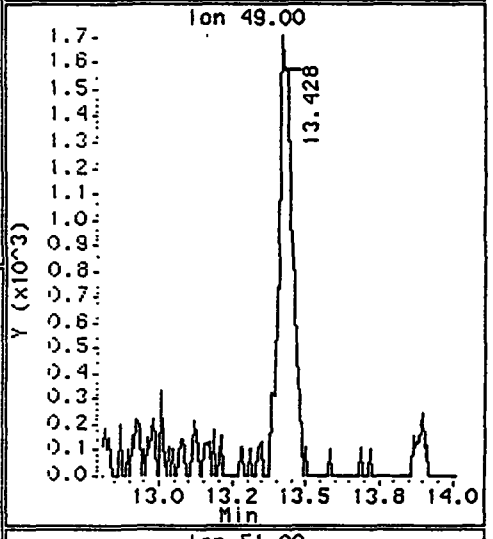


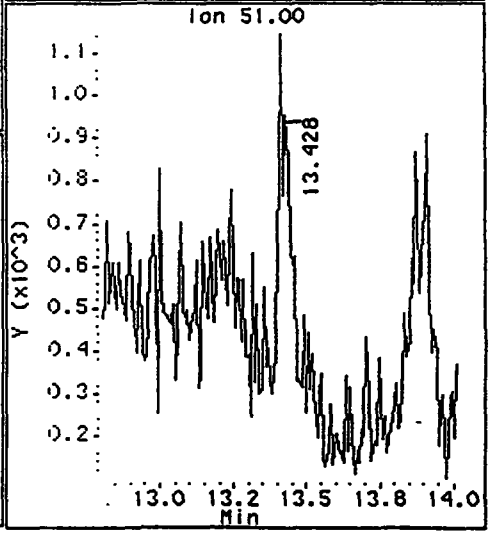












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

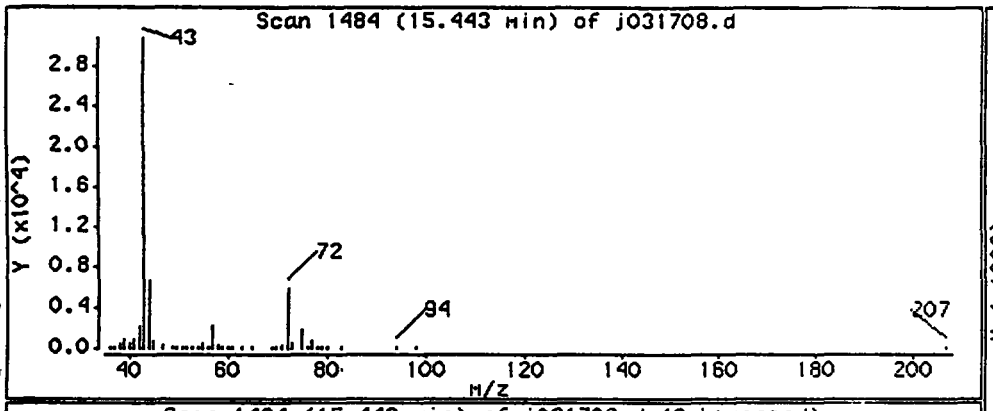
Sample Info: 500mL Can#409

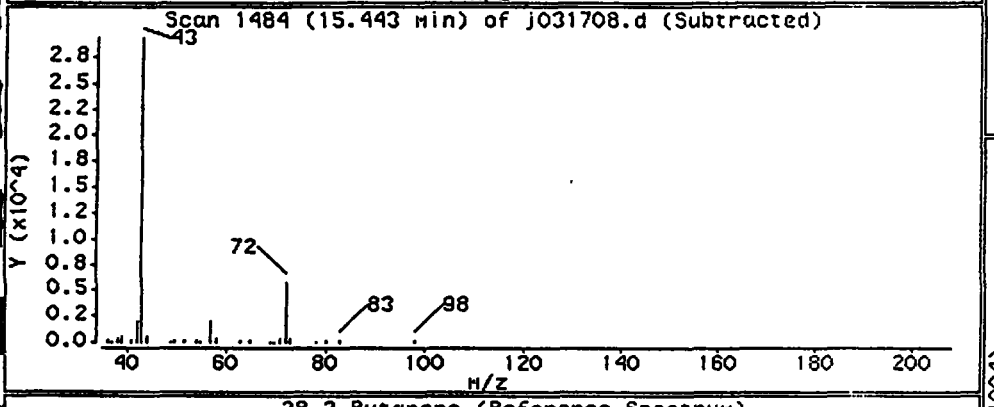
Operator: MH

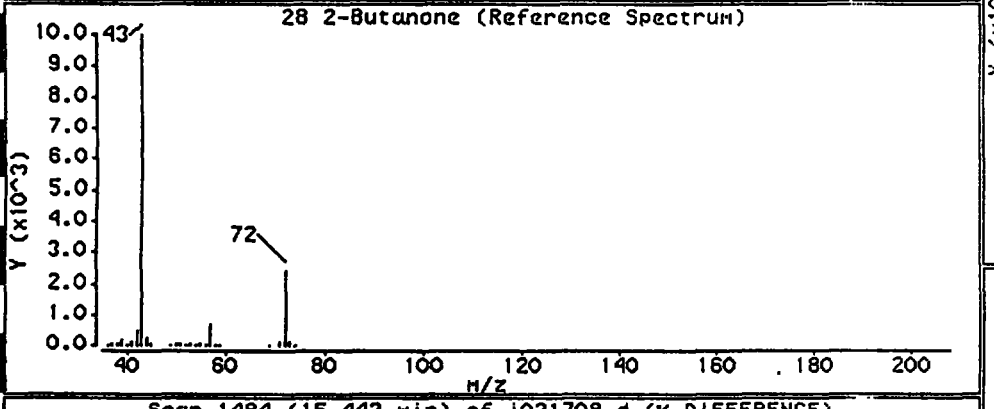
Column phase: RTx-624

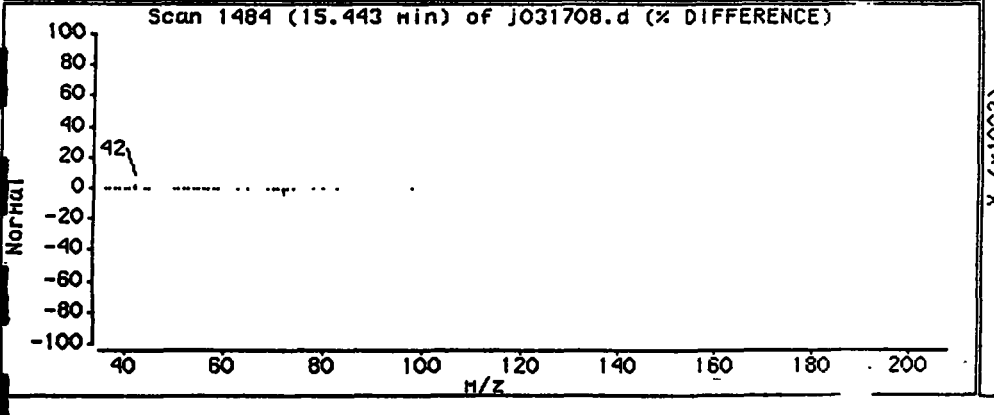
Column diameter: 0.58

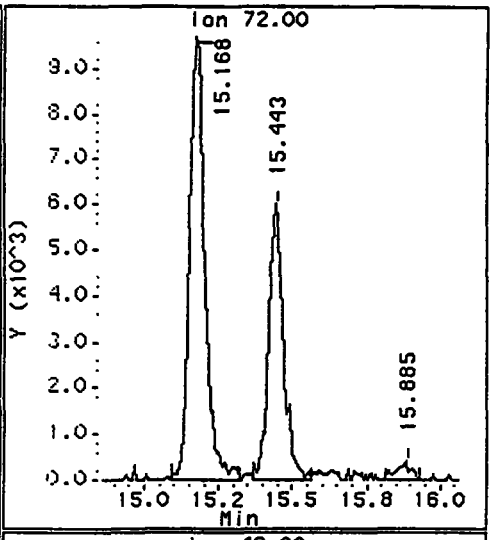
28 2-Butanone

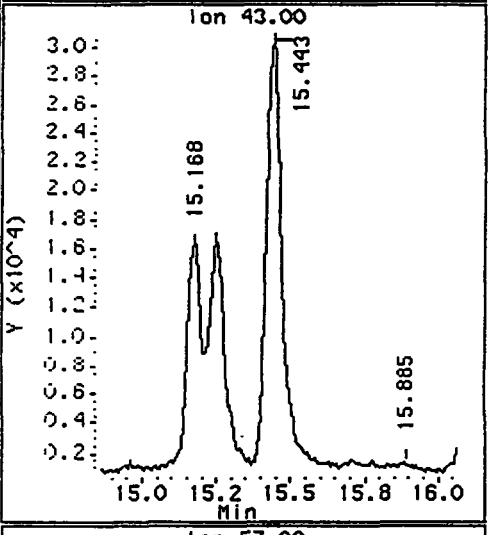


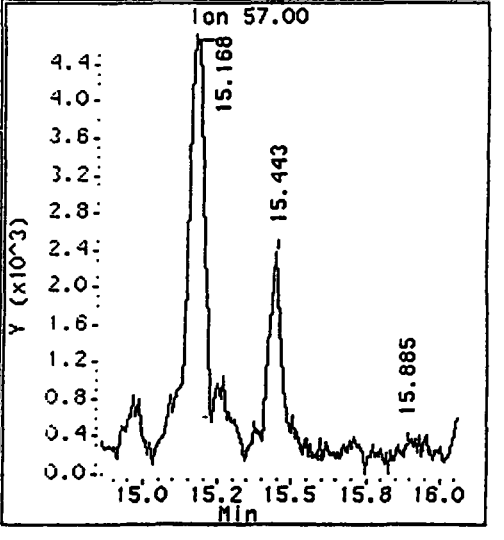












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

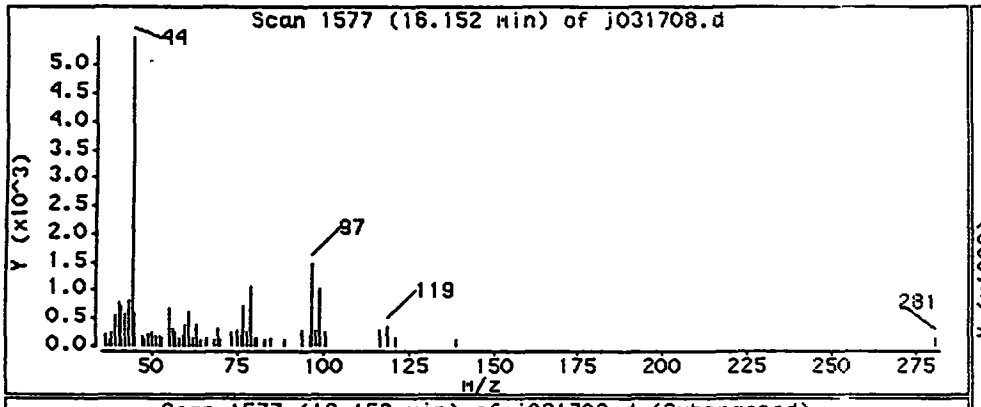
Sample Info: 500mL Can#409

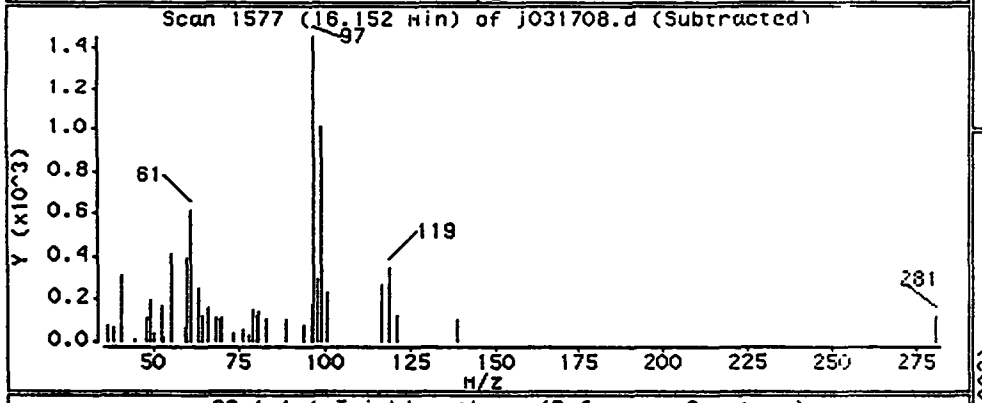
Operator: MH

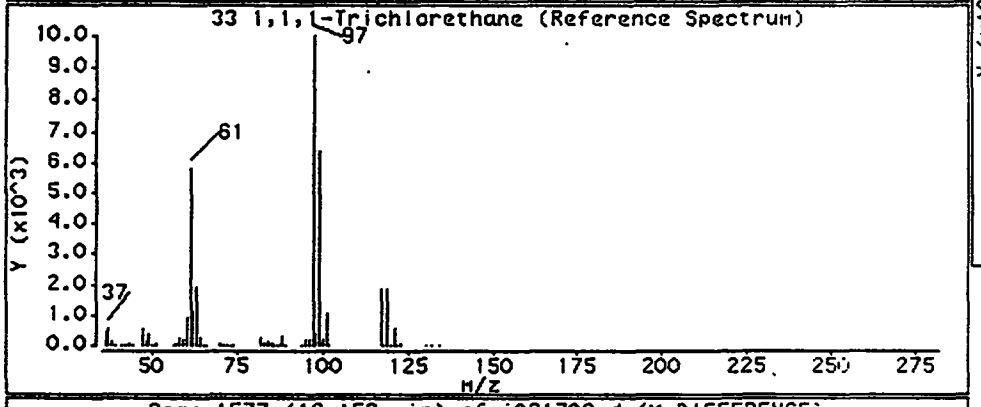
Column phase: RTx-624

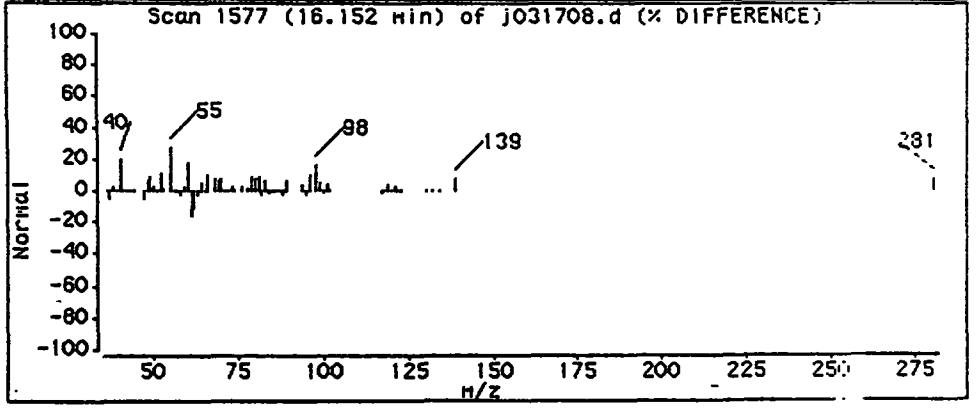
Column diameter: 0.58

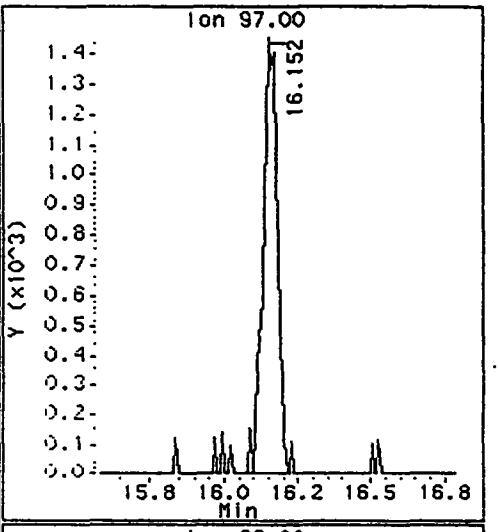
33 1,1,1-Trichlorethane

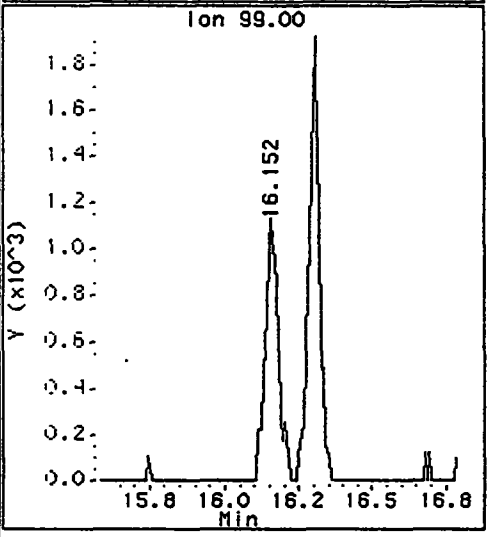












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

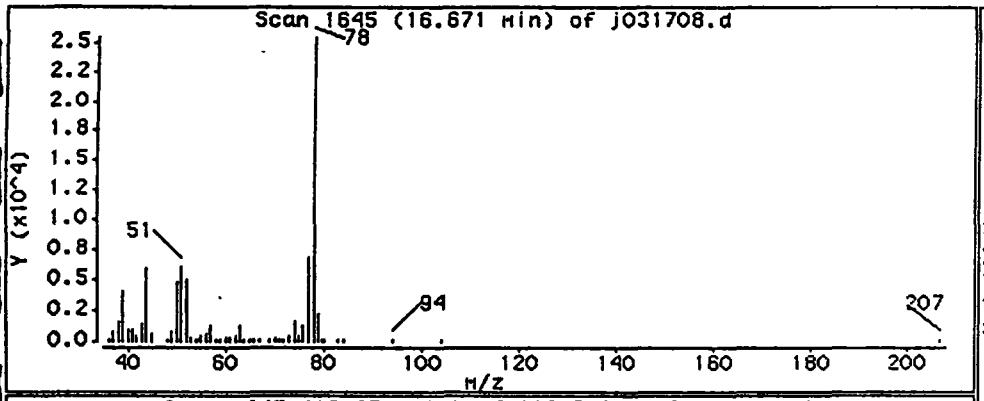
Sample Info: 500mL Can#409

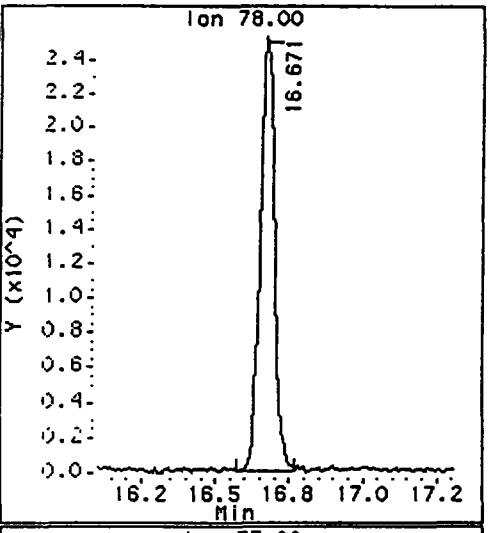
Operator: MH

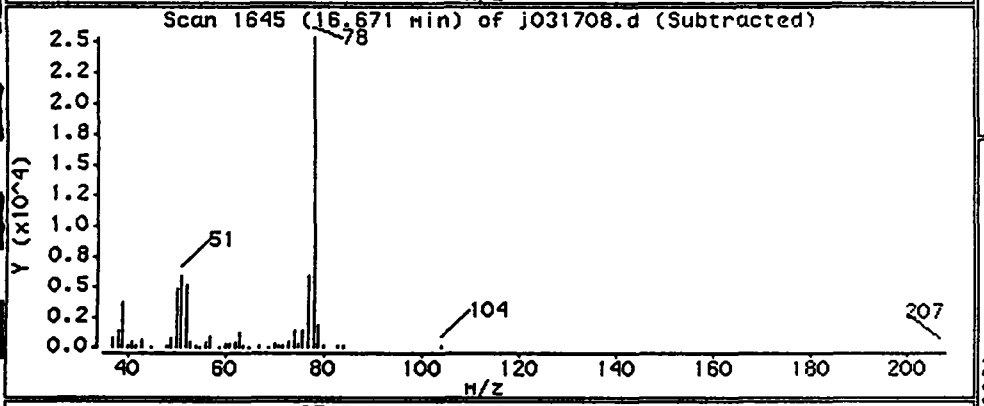
Column phase: RTx-624

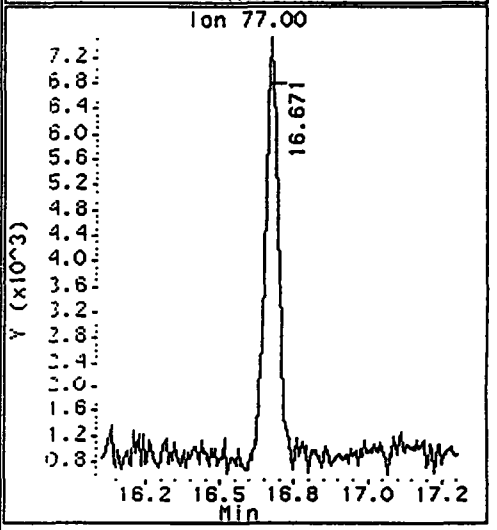
Column diameter: 0.58

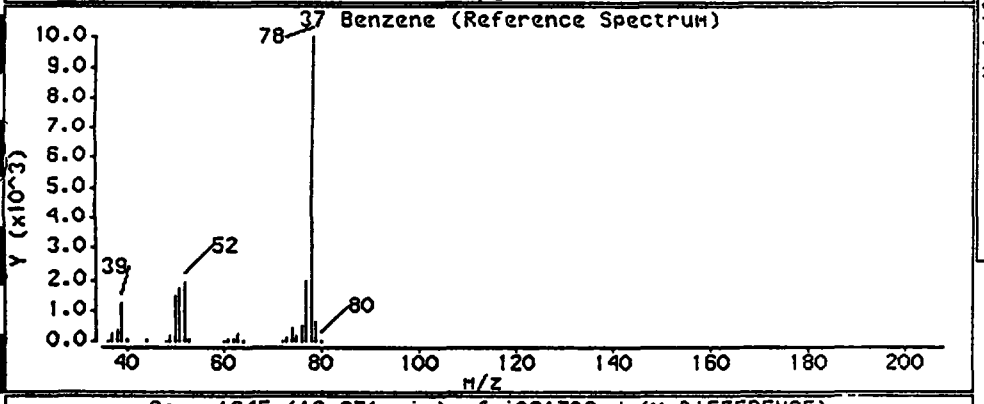
37 Benzene

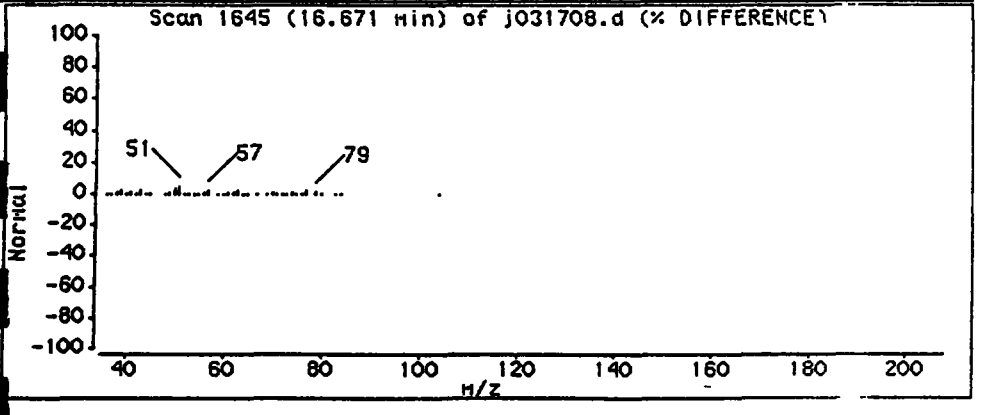












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

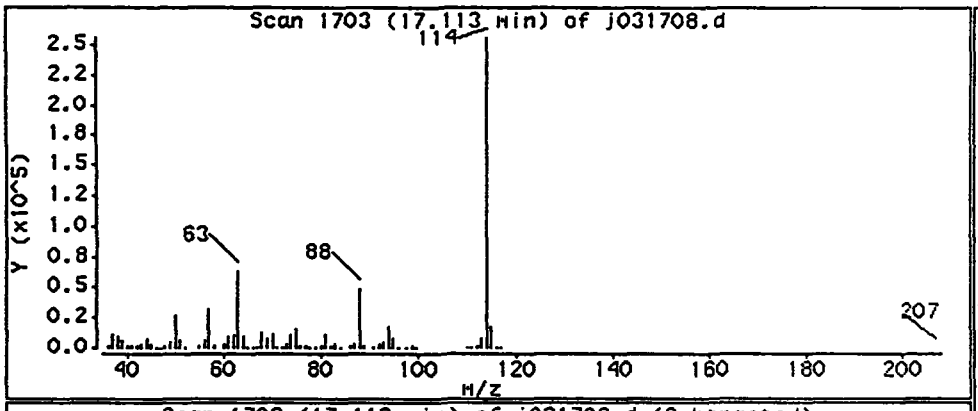
Sample Info: 500mL Can#409

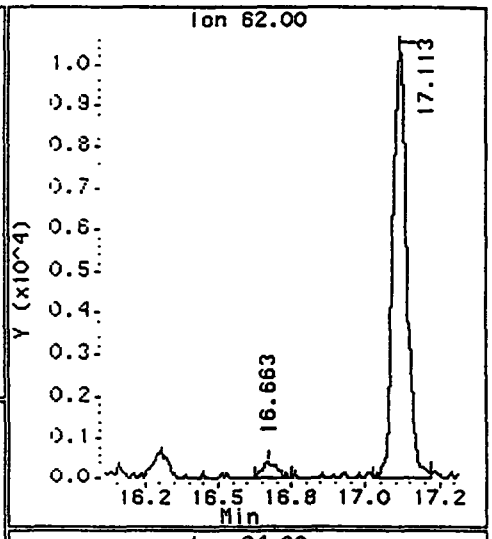
Operator: MH

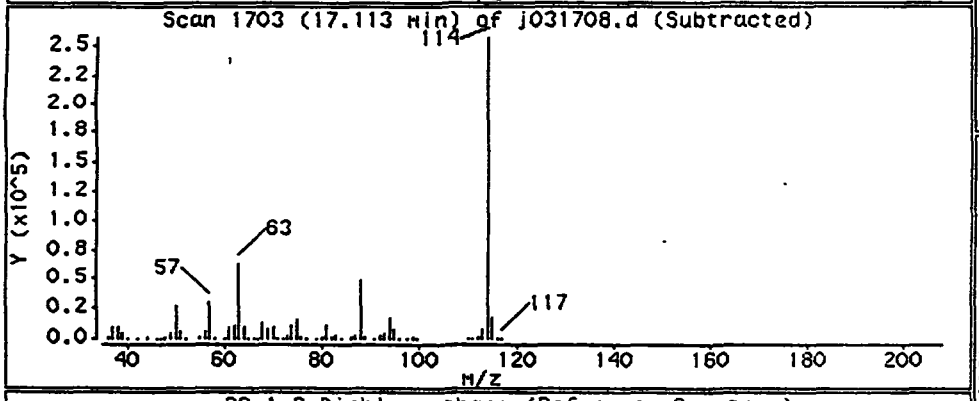
Column phase: RTx-624

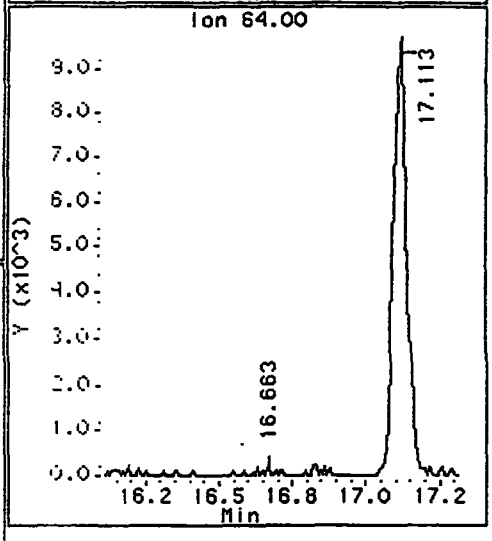
Column diameter: 0.58

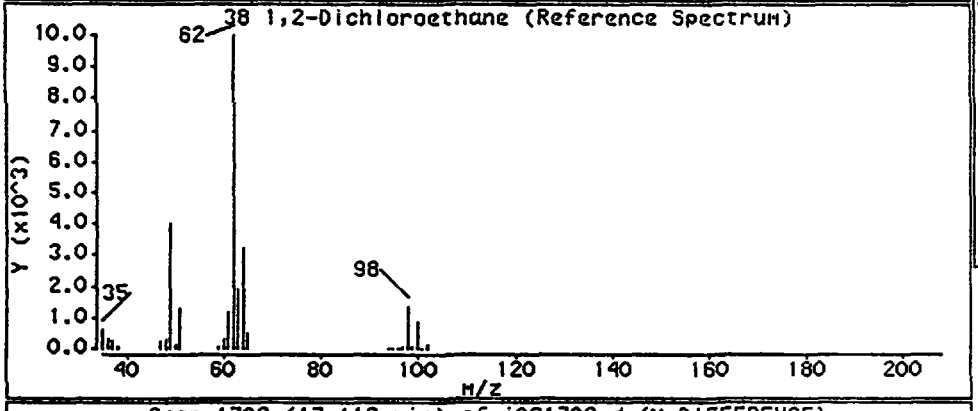
38 1,2-Dichloroethane

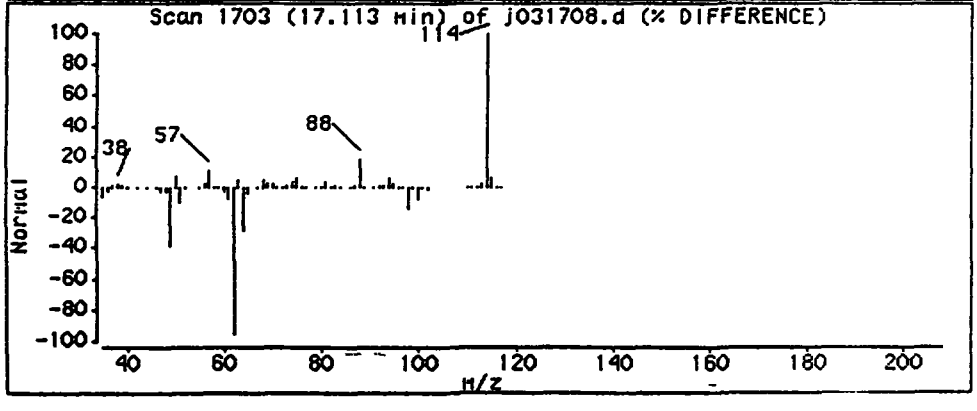












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

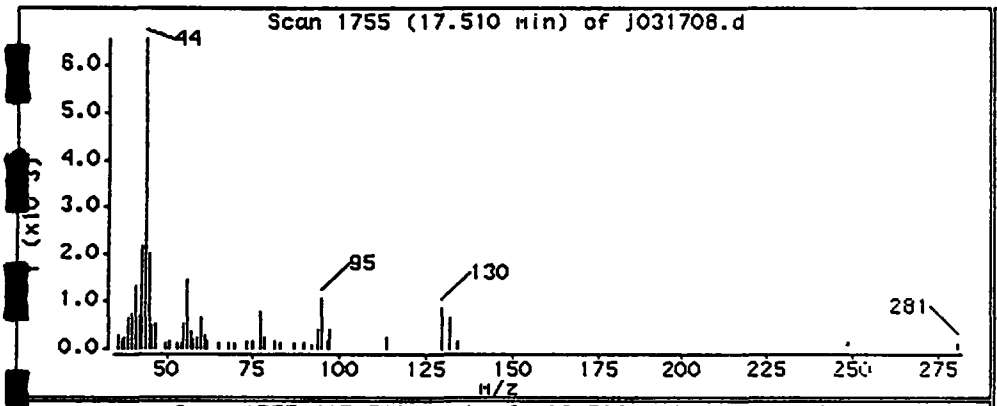
Sample Info: 500mL Can#409

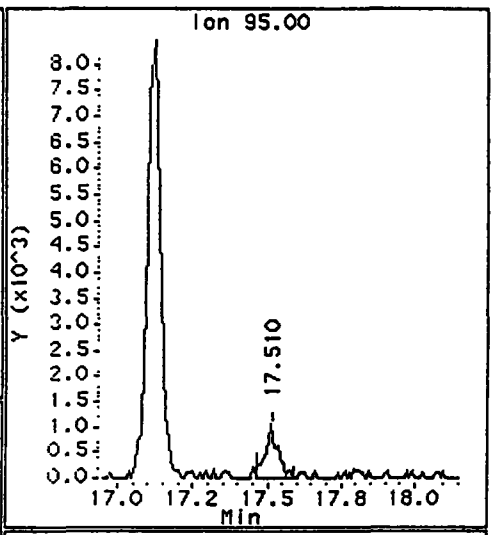
Operator: MH

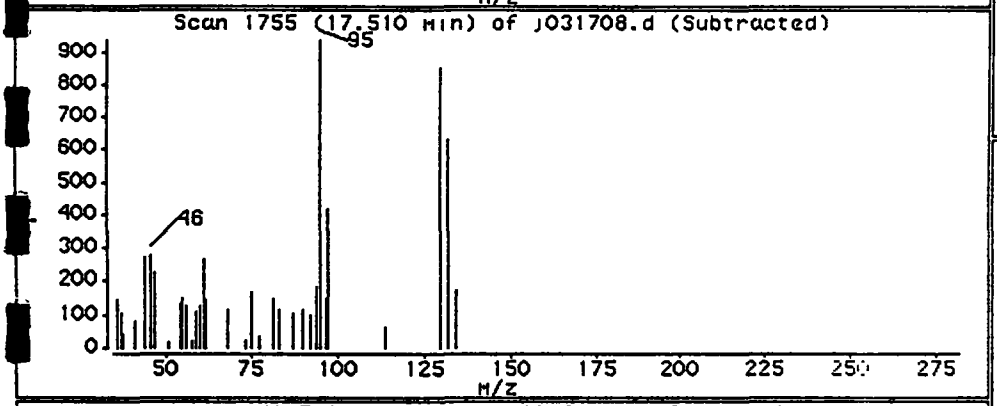
Column phase: RTx-624

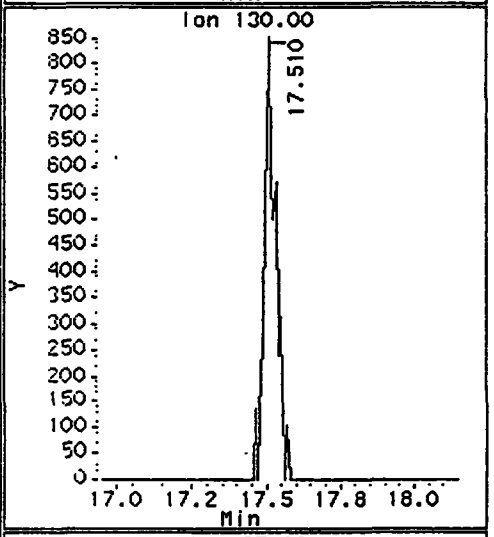
Column diameter: 0.58

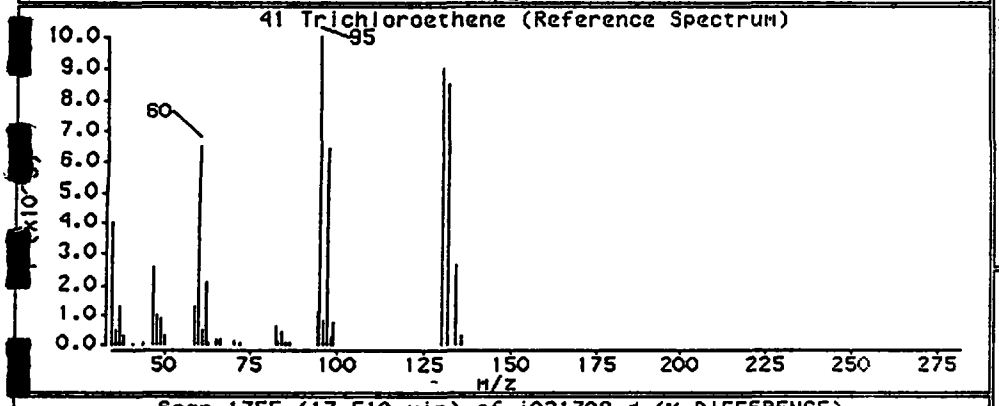
41 Trichloroethene

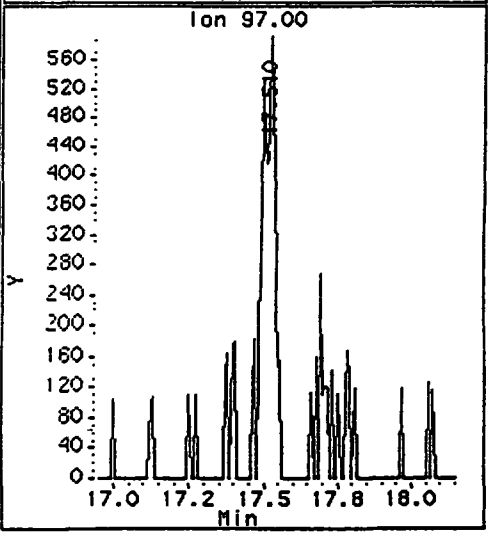


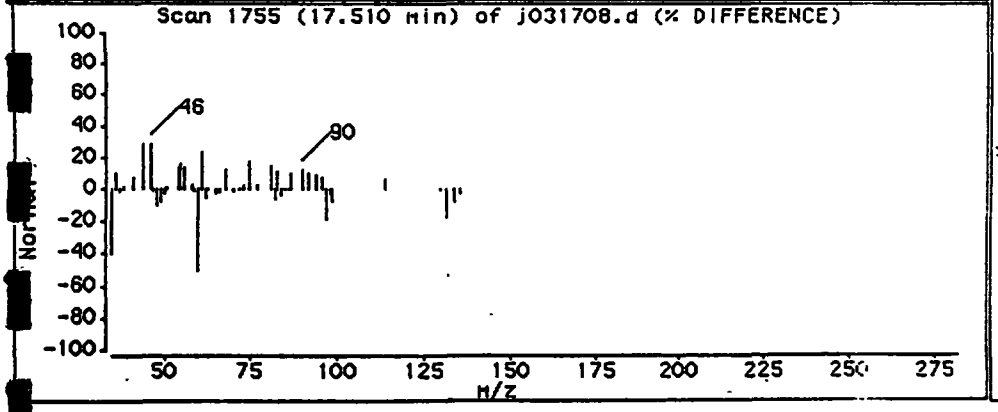












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

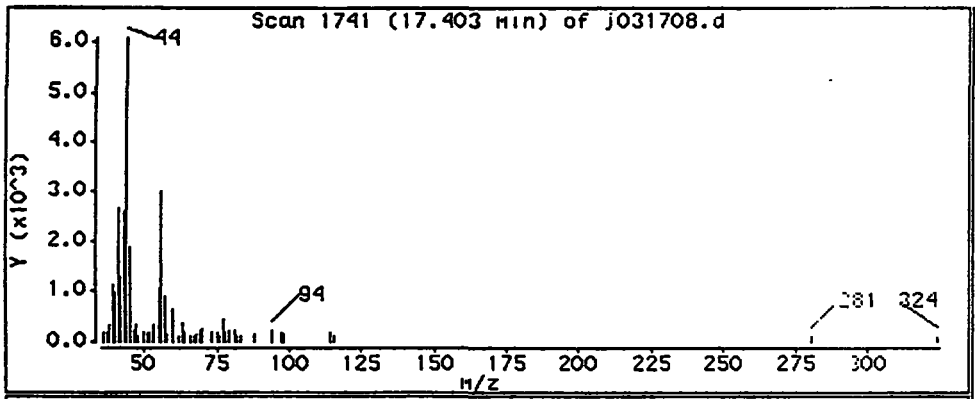
Sample Info: 500mL Can#409

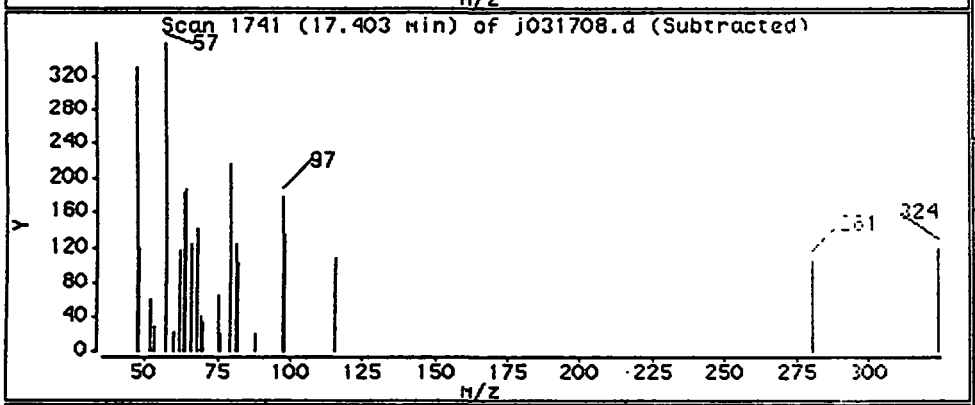
Operator: MH

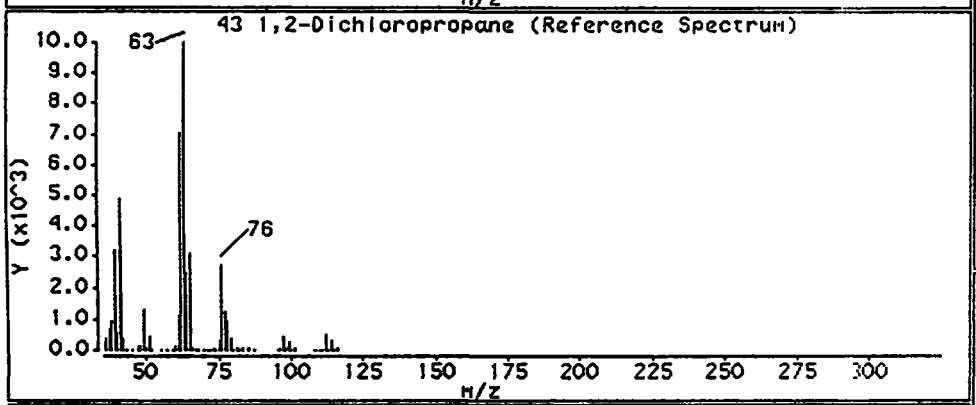
Column phase: RTx-624

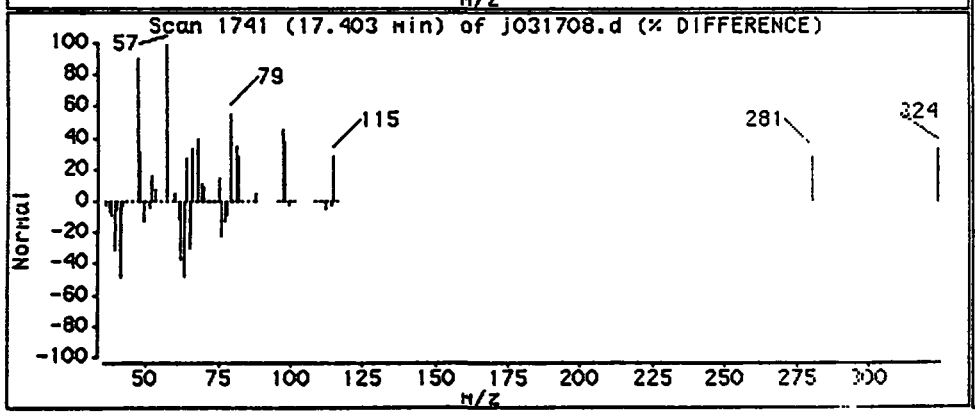
Column diameter: 0.58

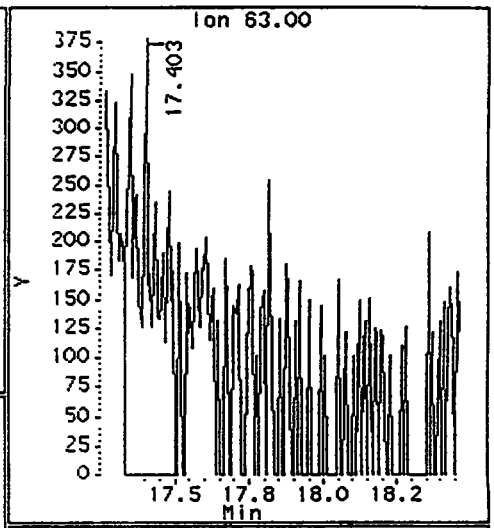
43 1,2-Dichloropropane

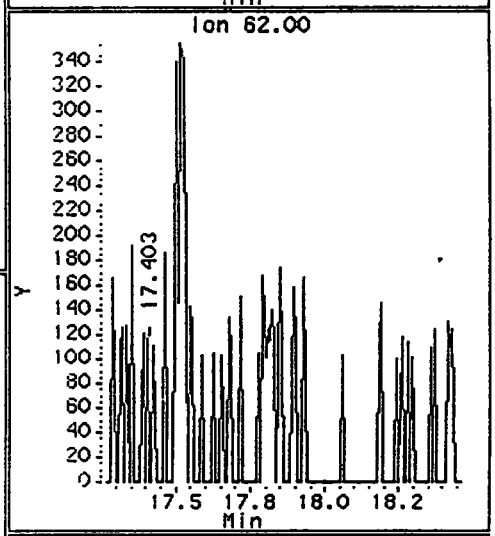


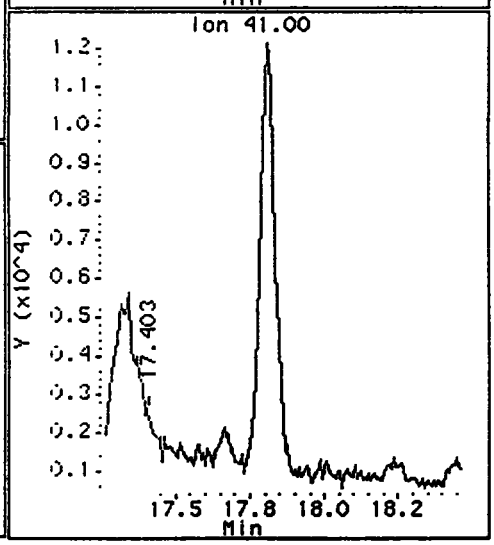












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

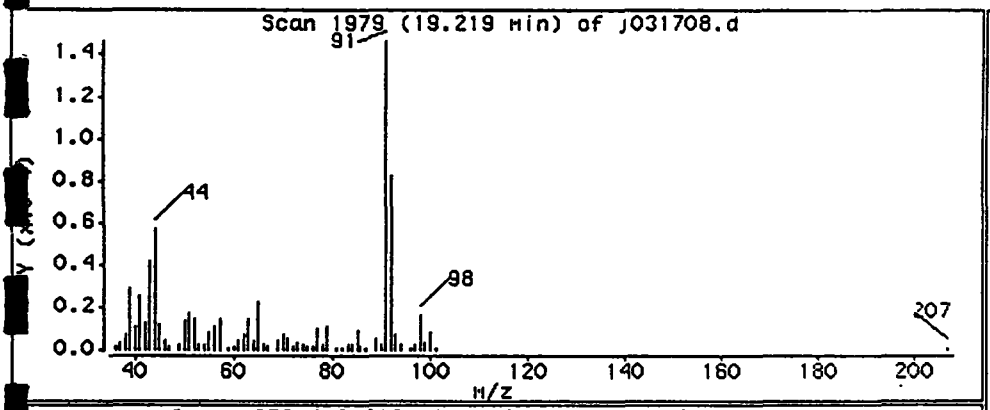
Sample Info: 500ML Can#409

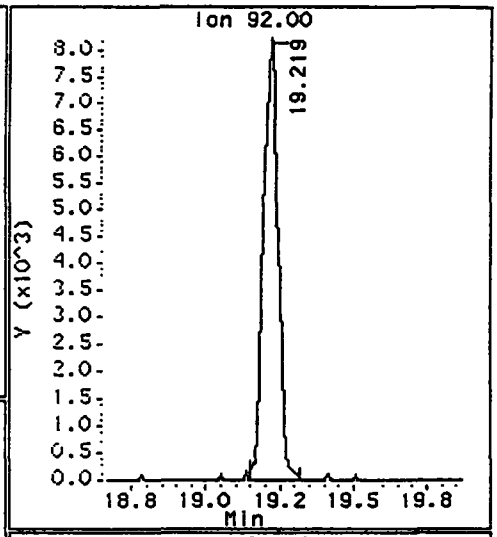
Operator: MH

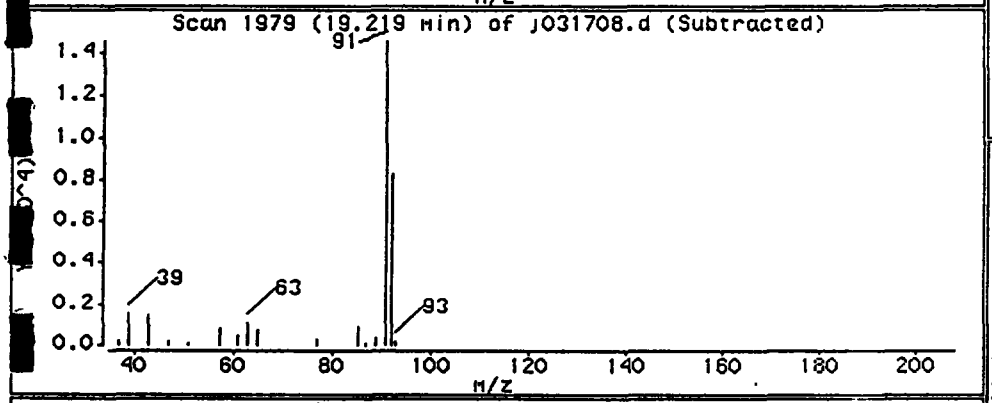
Column phase: RTx-624

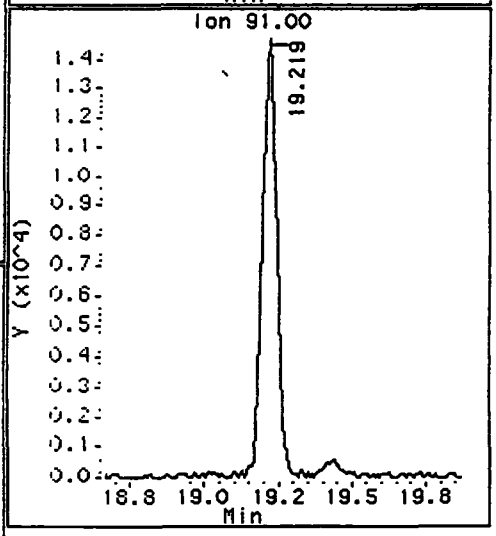
Column diameter: 0.58

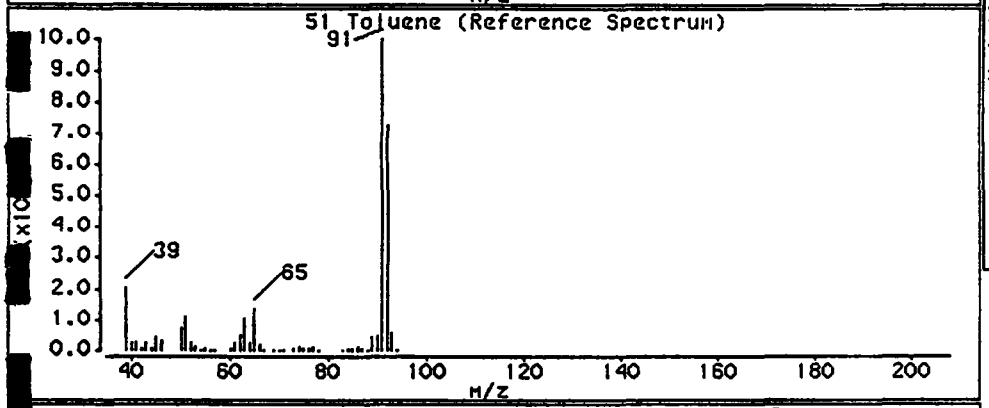
51 Toluene

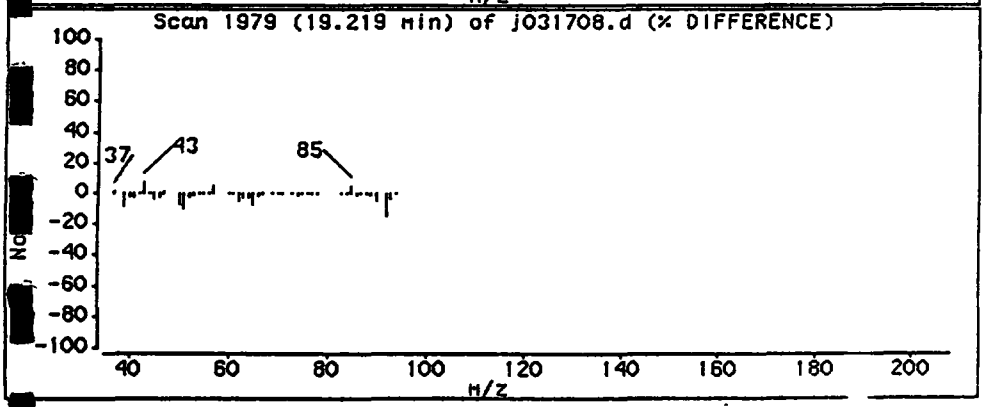












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

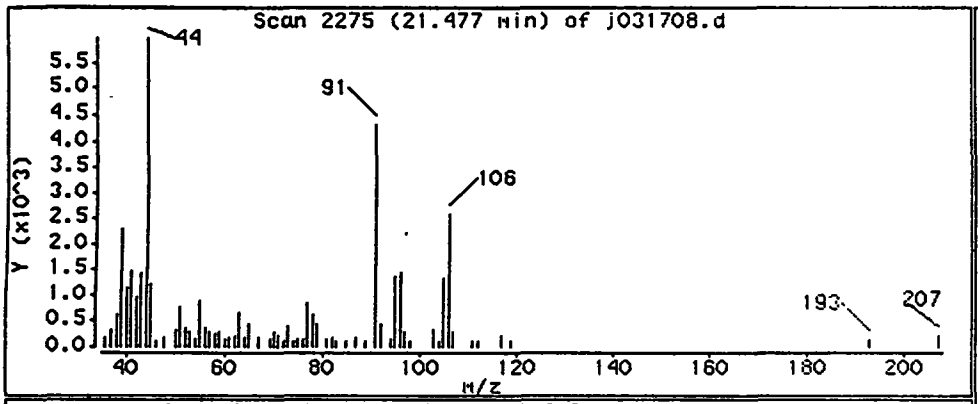
Sample Info: 500mL Can#409

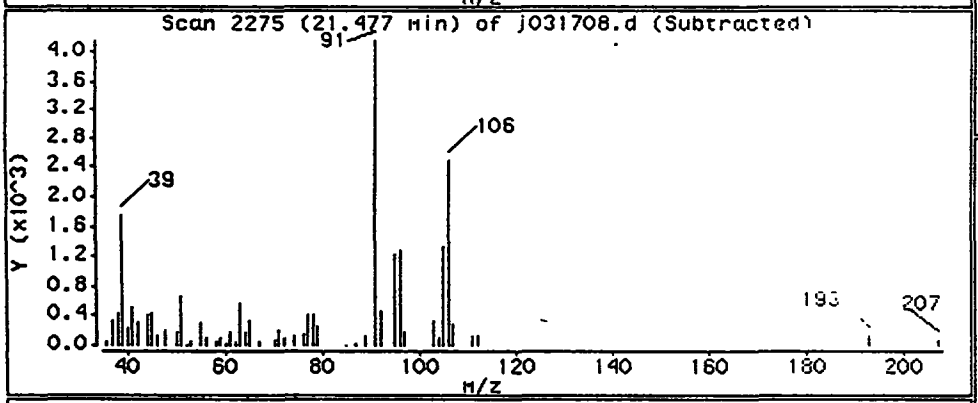
Operator: MH

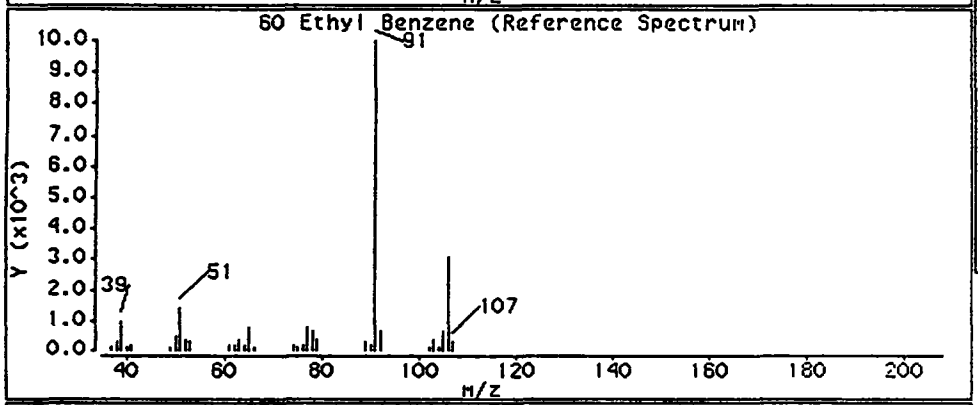
Column phase: RTx-624

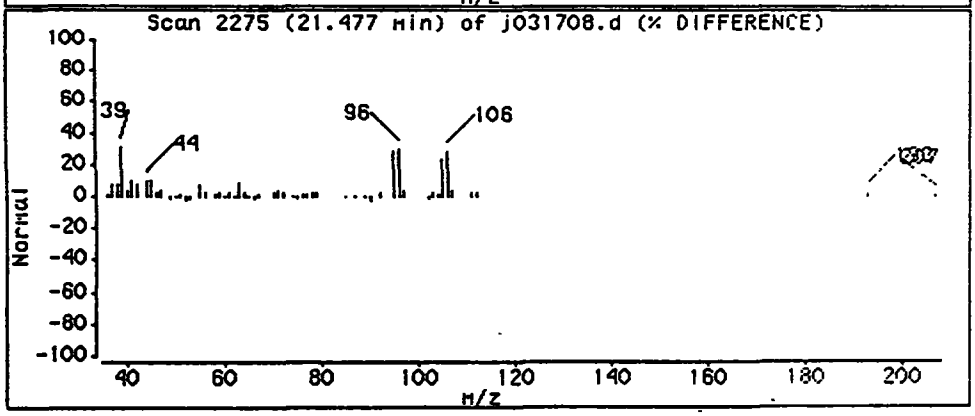
Column diameter: 0.58

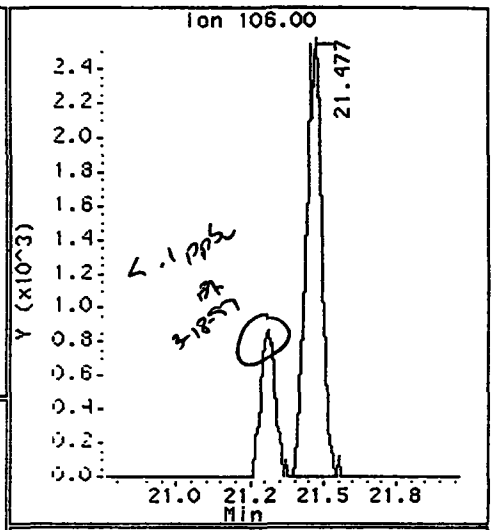
60 Ethyl Benzene

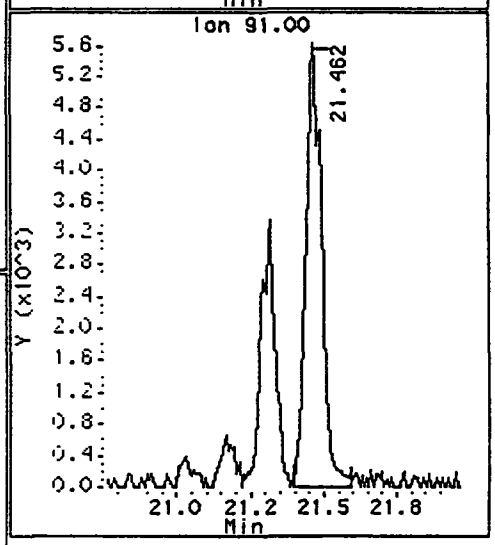












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

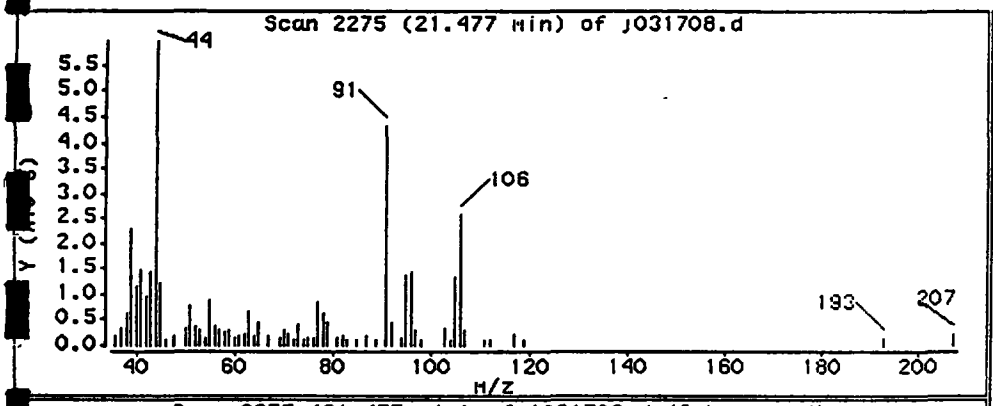
Sample Info: 500mL Can#409

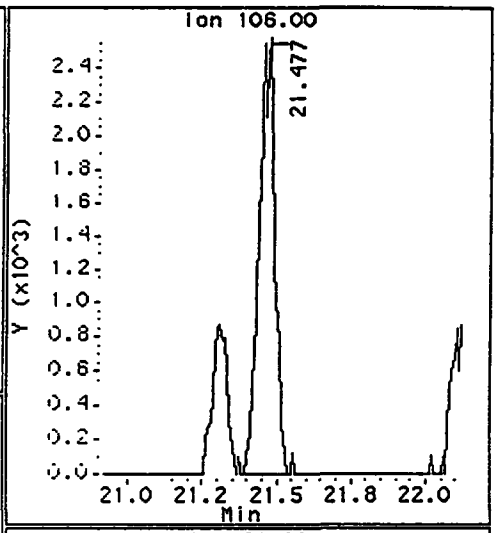
Operator: MH

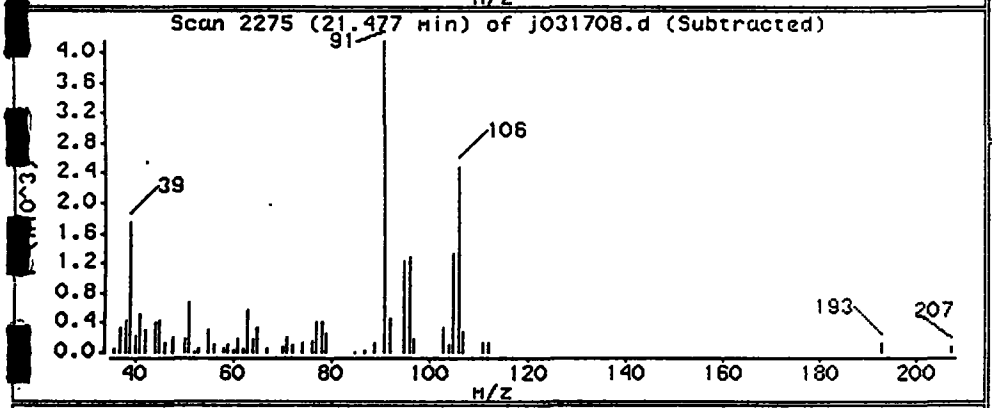
Column phase: RTx-624

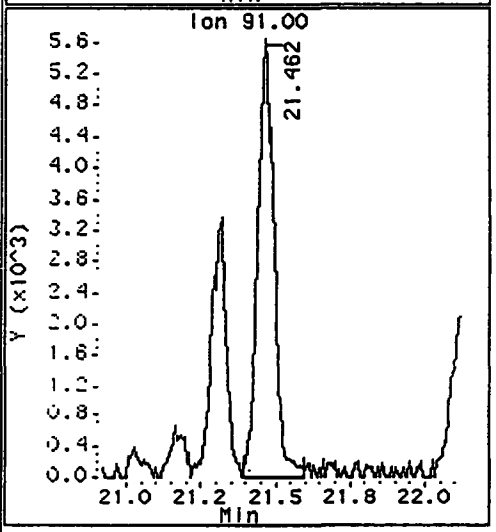
Column diameter: 0.58

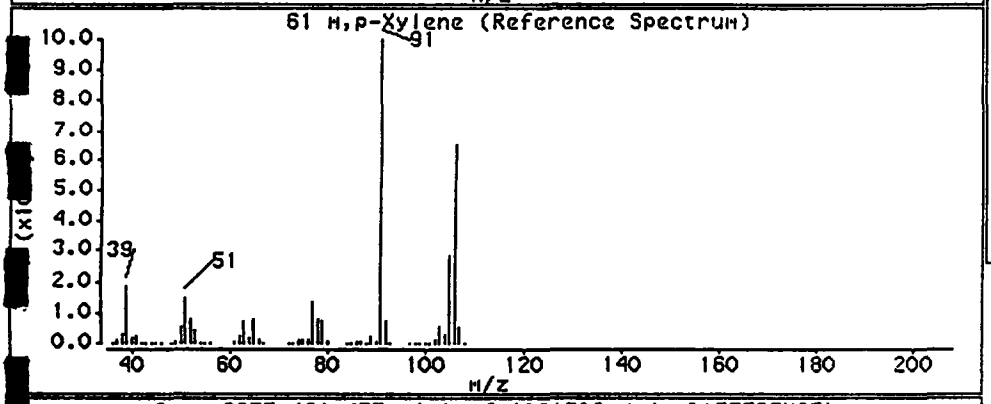
61 m,p-Xylene

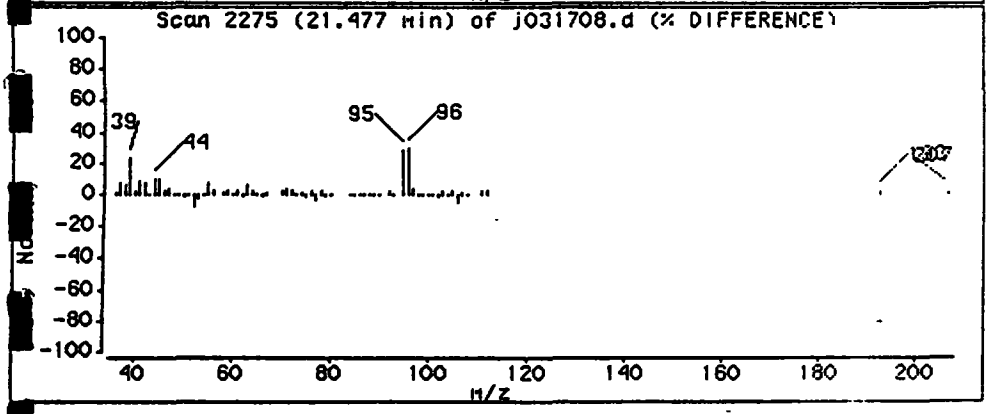












Data File: /chem/msdj.i/j-17mar.b/j031708.d

Date : 17-MAR-97 13:45

Client ID: 031197U2

Instrument: msdj.i

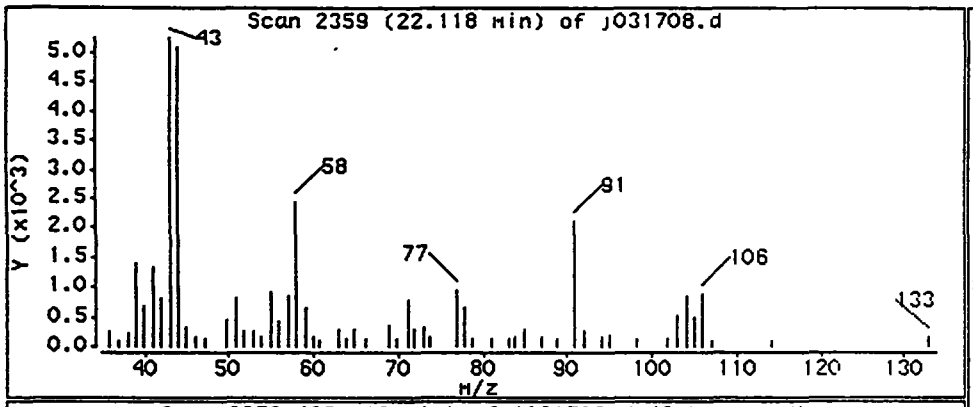
Sample Info: 500mL Can#409

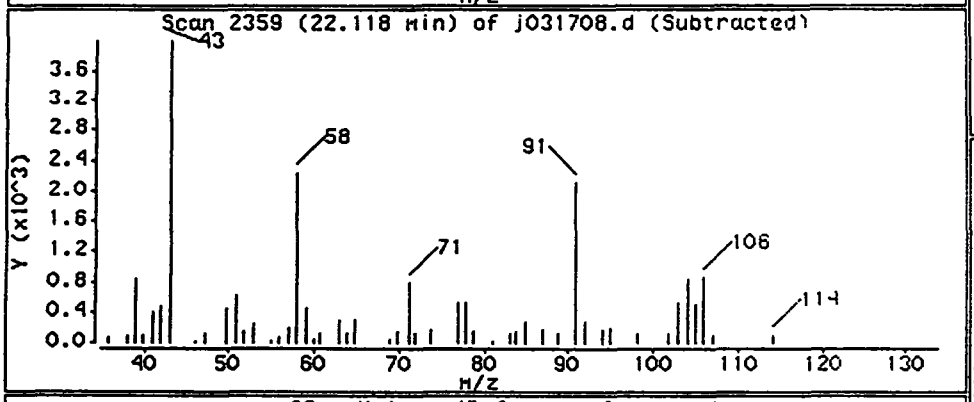
Operator: MH

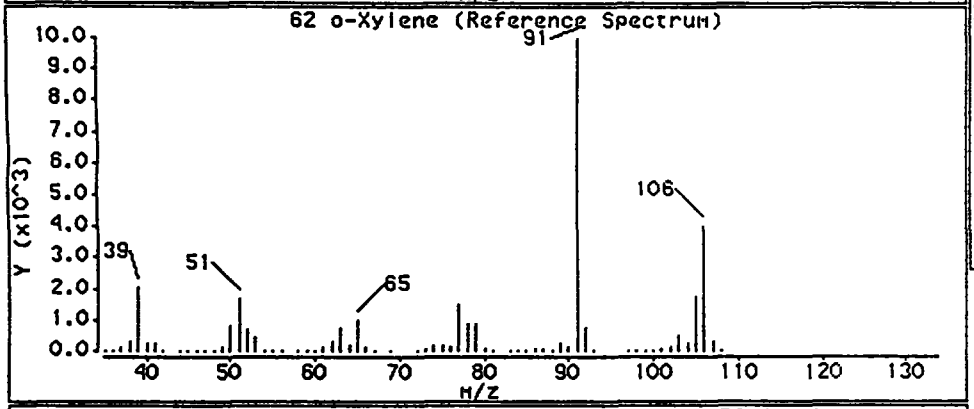
Column phase: RTx-624

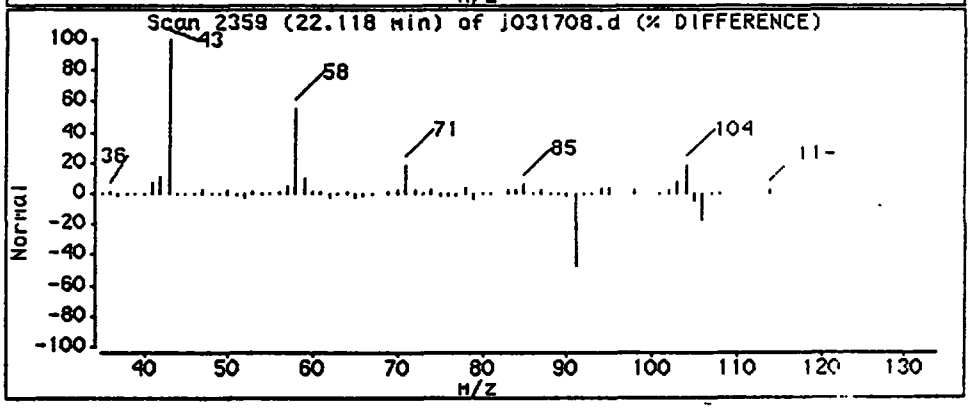
Column diameter: 0.58

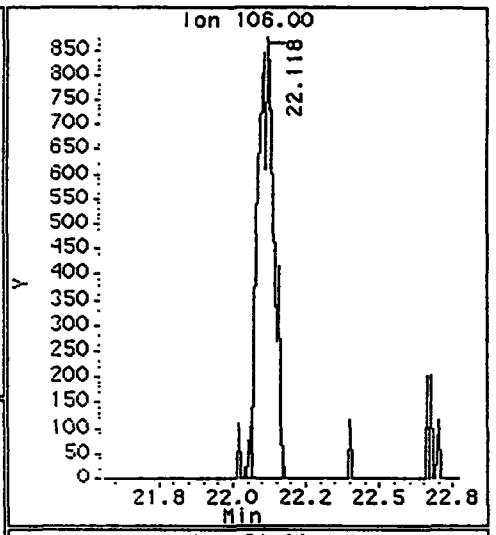
62 o-Xylene

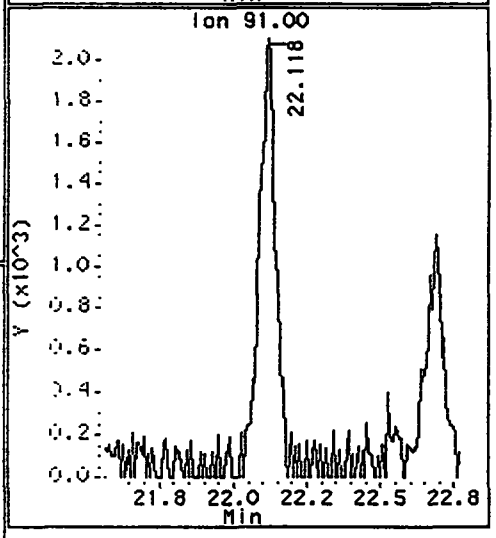






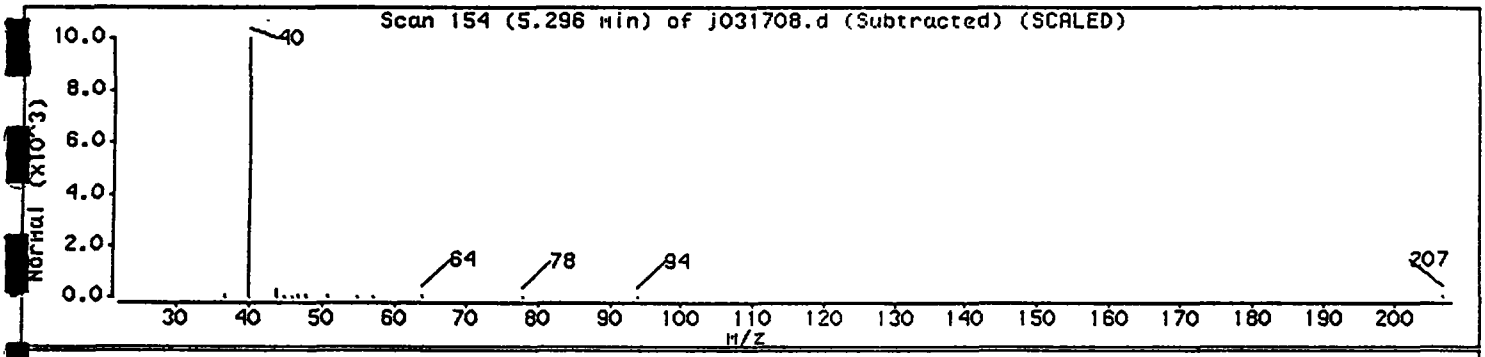




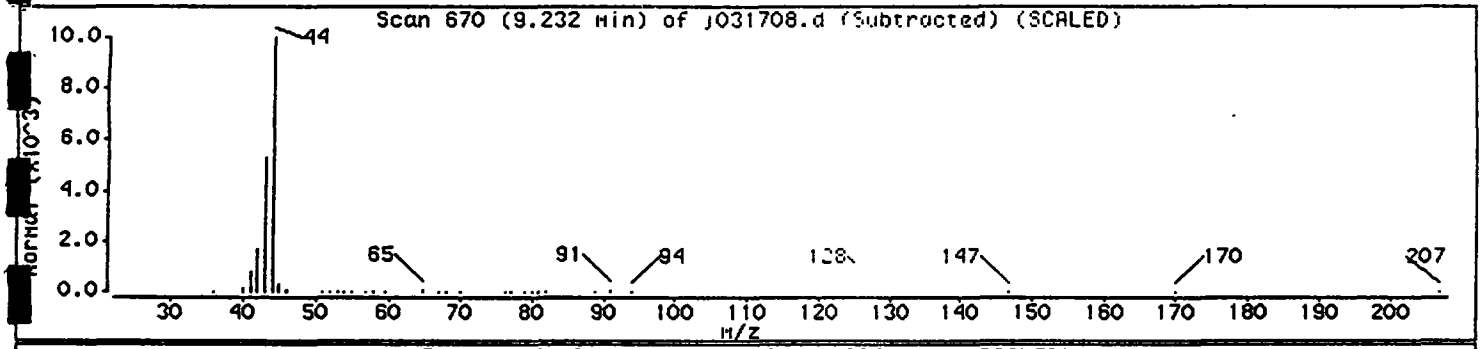


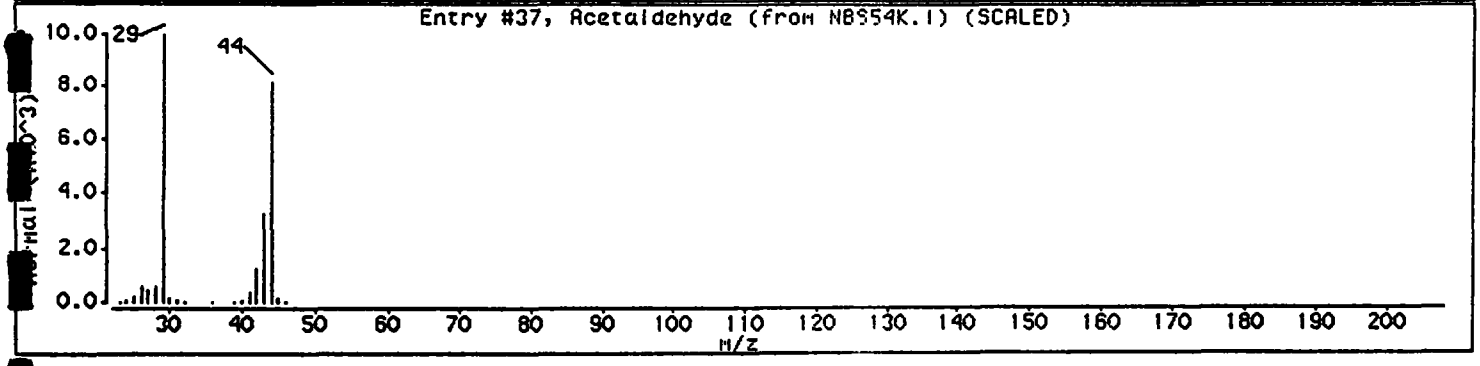
Data File: /chem/msdj.i/j-17mar.b/j031708.d
Date : 17-MAR-97 13:45
Instrument: msdj.i
Client ID: 031197U2
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



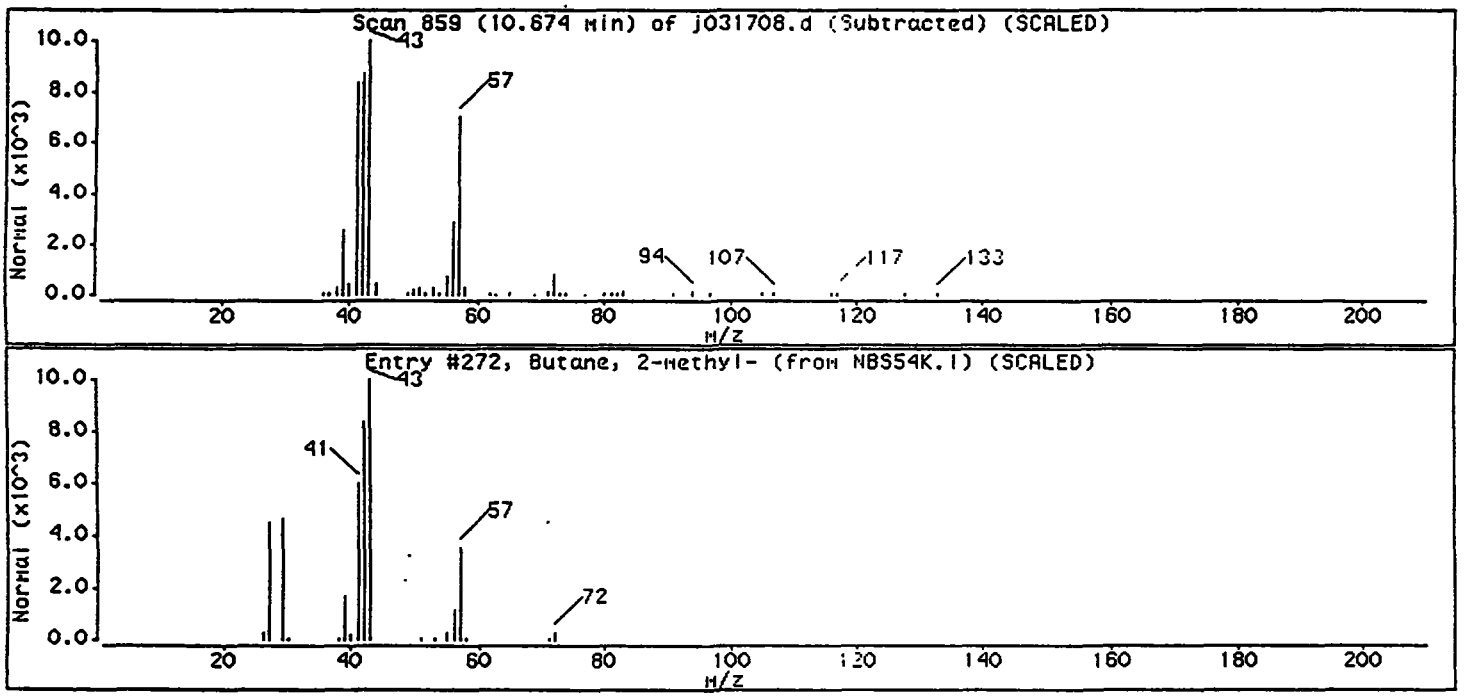
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetaldehyde	75-07-0	NBS54K.I	37	86



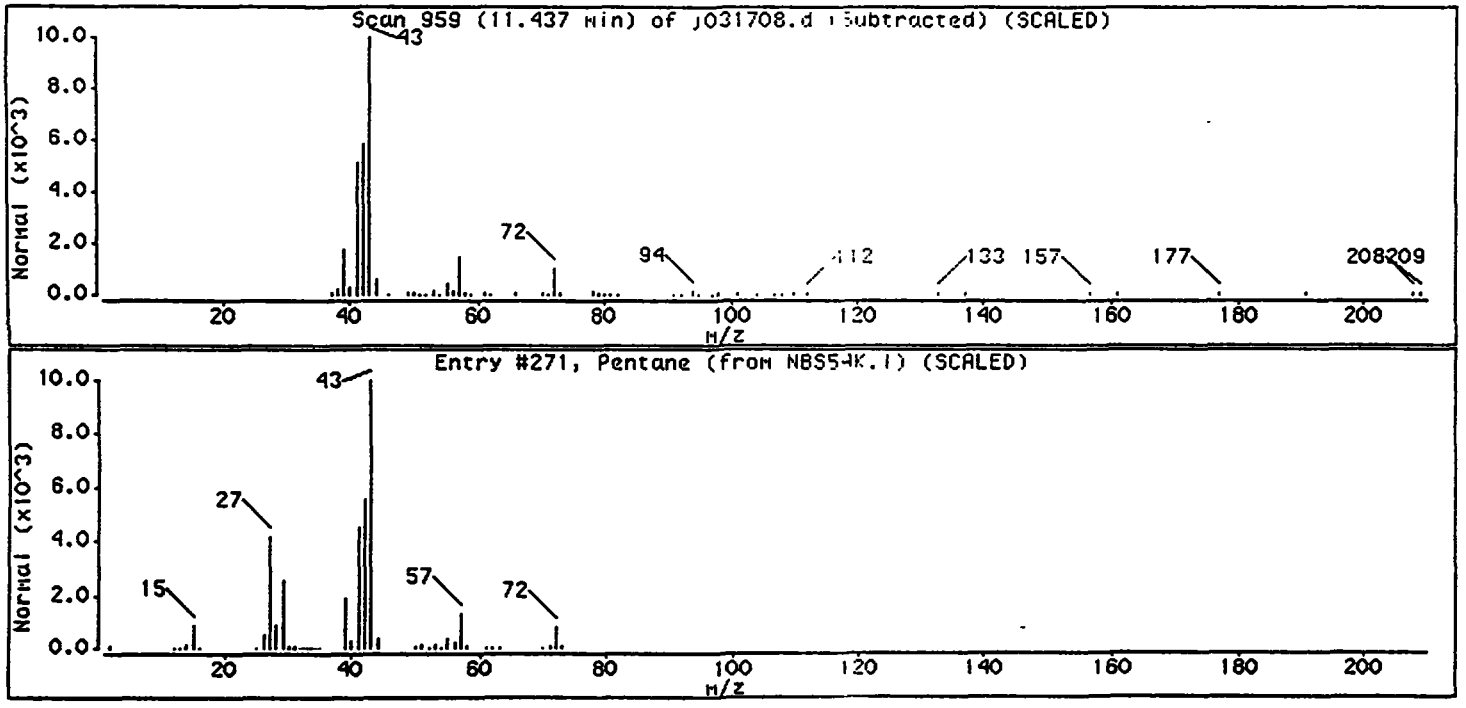


Data File: /chem/msdj.i/j-17mar.b/j031708.d
Date : 17-MAR-97 13:45
Instrument: msdj.i
Client ID: 031197U2
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane, 2-methyl-	78-78-4	NBS54K.I	272	78

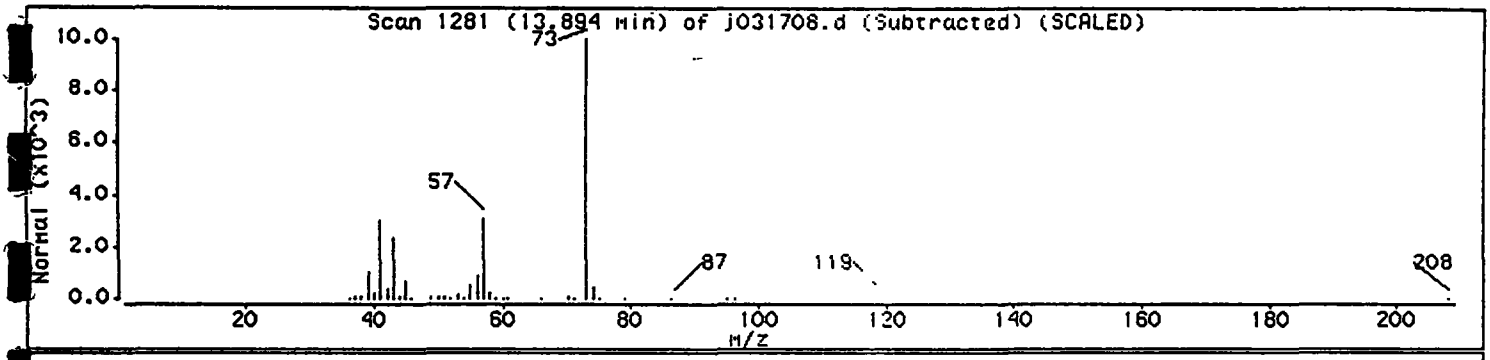


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Pentane	109-66-0	NBS54K.I	271	86

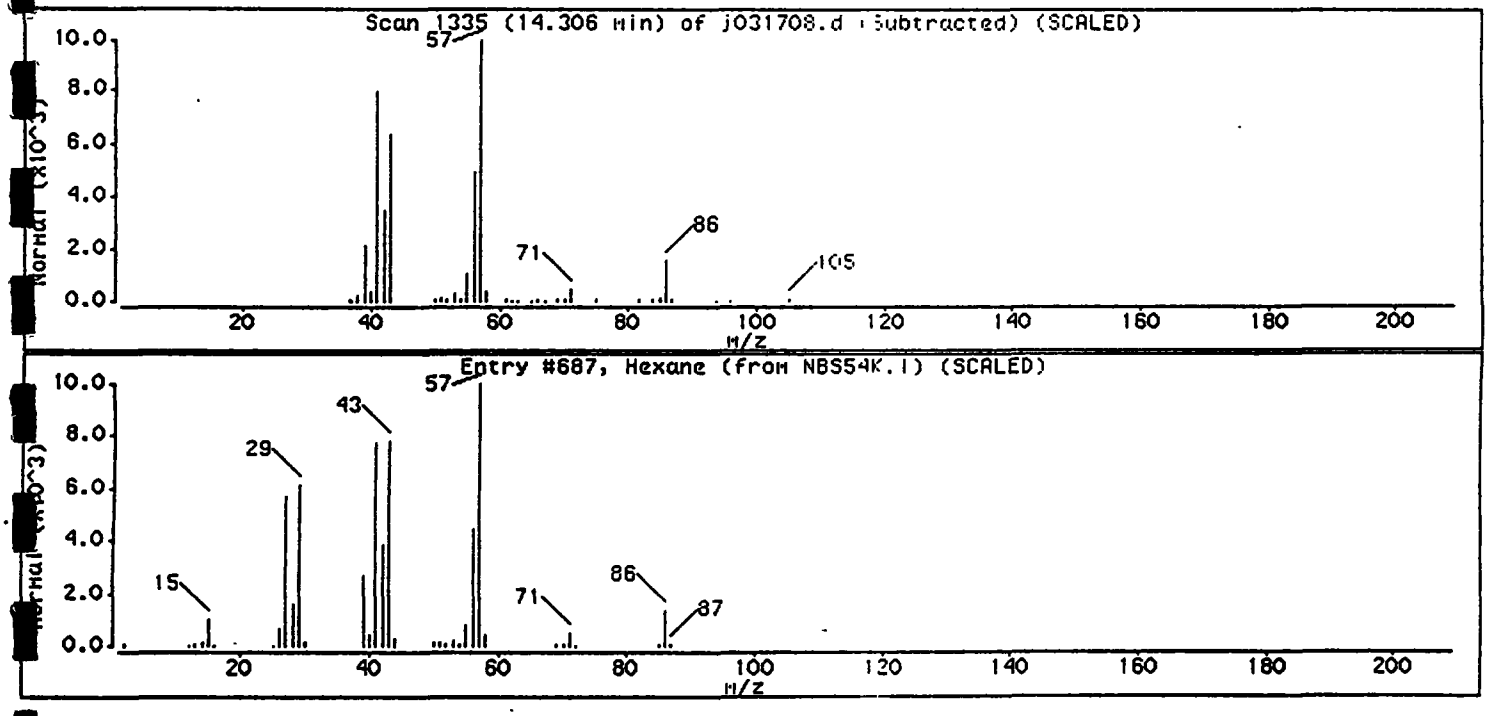


Data File: /chem/msdj.i/j-17mar.b/j031708.d
Date : 17-MAR-97 13:45
Instrument: msdj.i
Client ID: 03119702
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



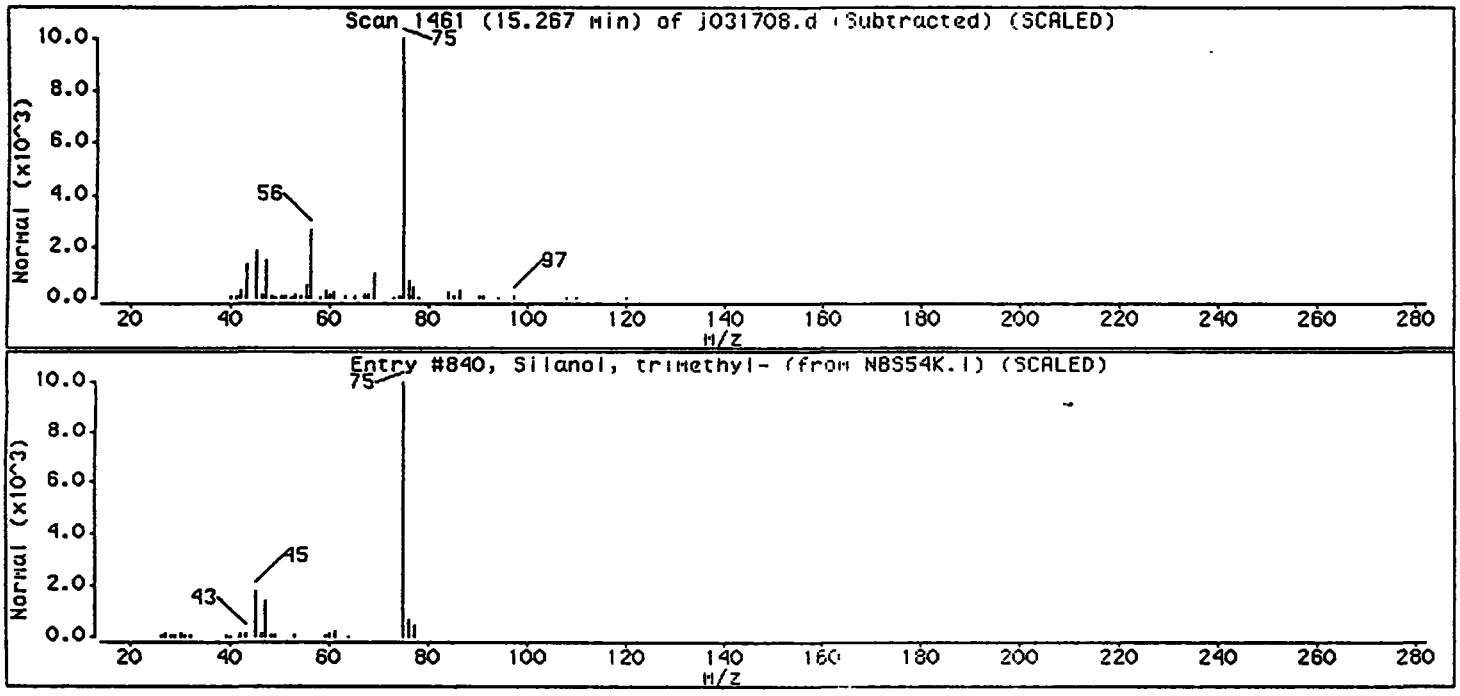
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexane	110-54-3	NBS54K.I	687	91



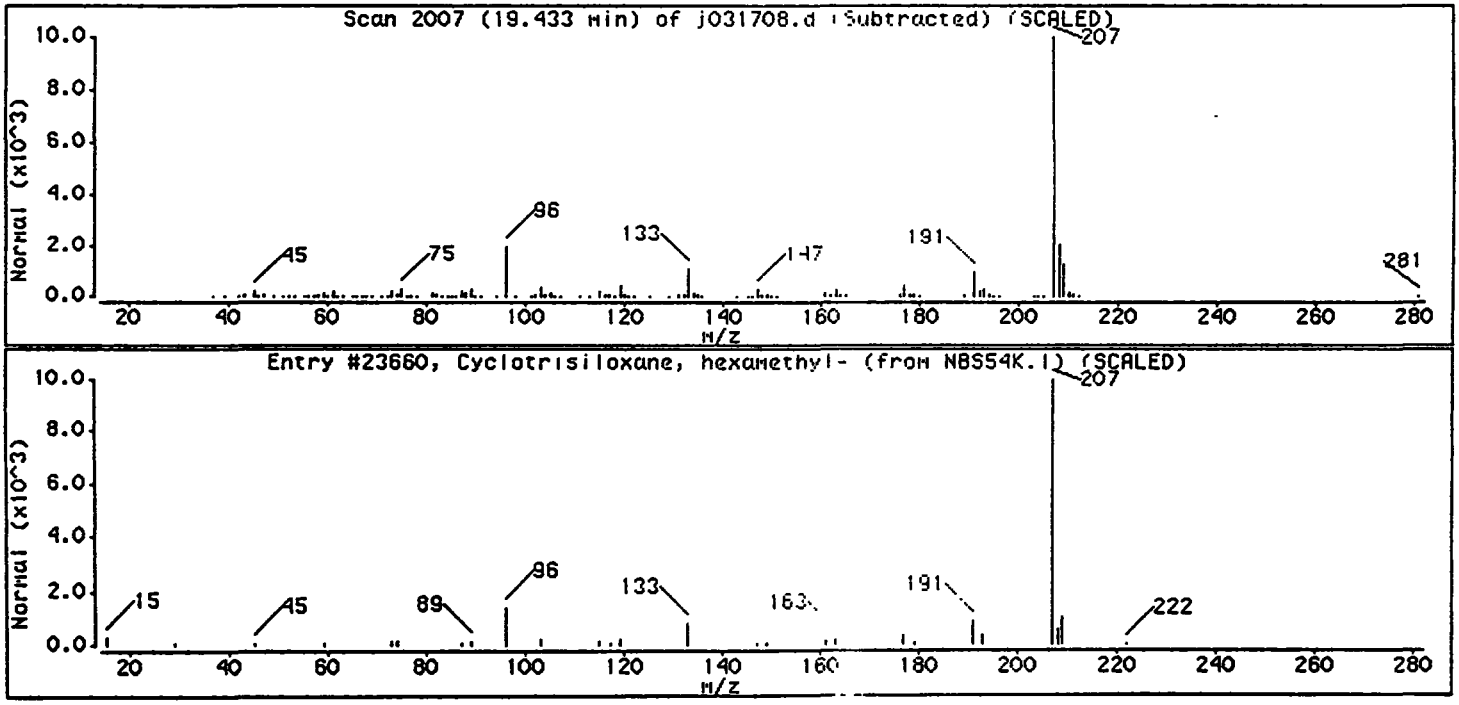
Data File: /chem/msdj.i/j-17mar.b/j031708.d
Date : 17-MAR-97 13:45
Instrument: msdj.i
Client ID: 031197U2
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Silanol, trimethyl-	1066-40-6	NBS54K.I	840	59

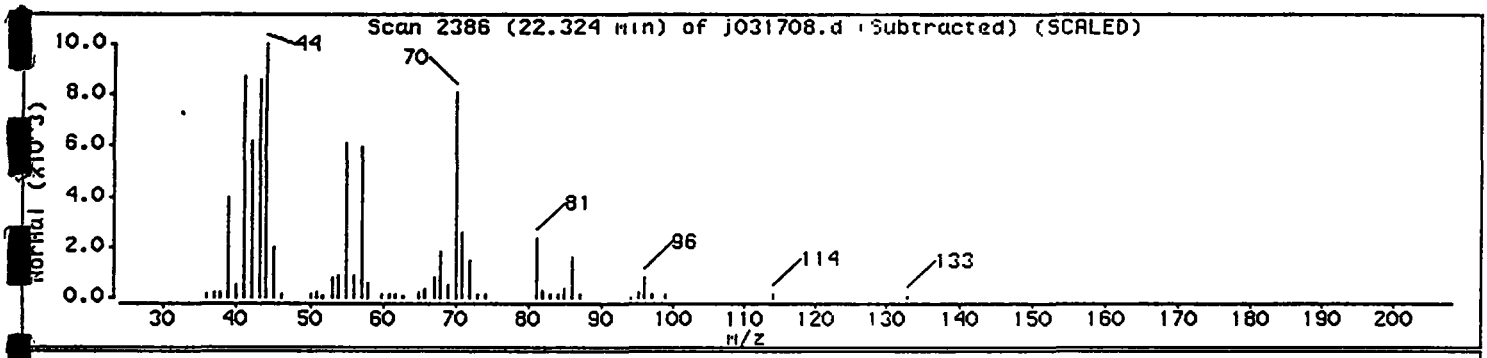


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotrisiloxane, hexamethyl-	541-05-9	NBS54K.I	23660	64

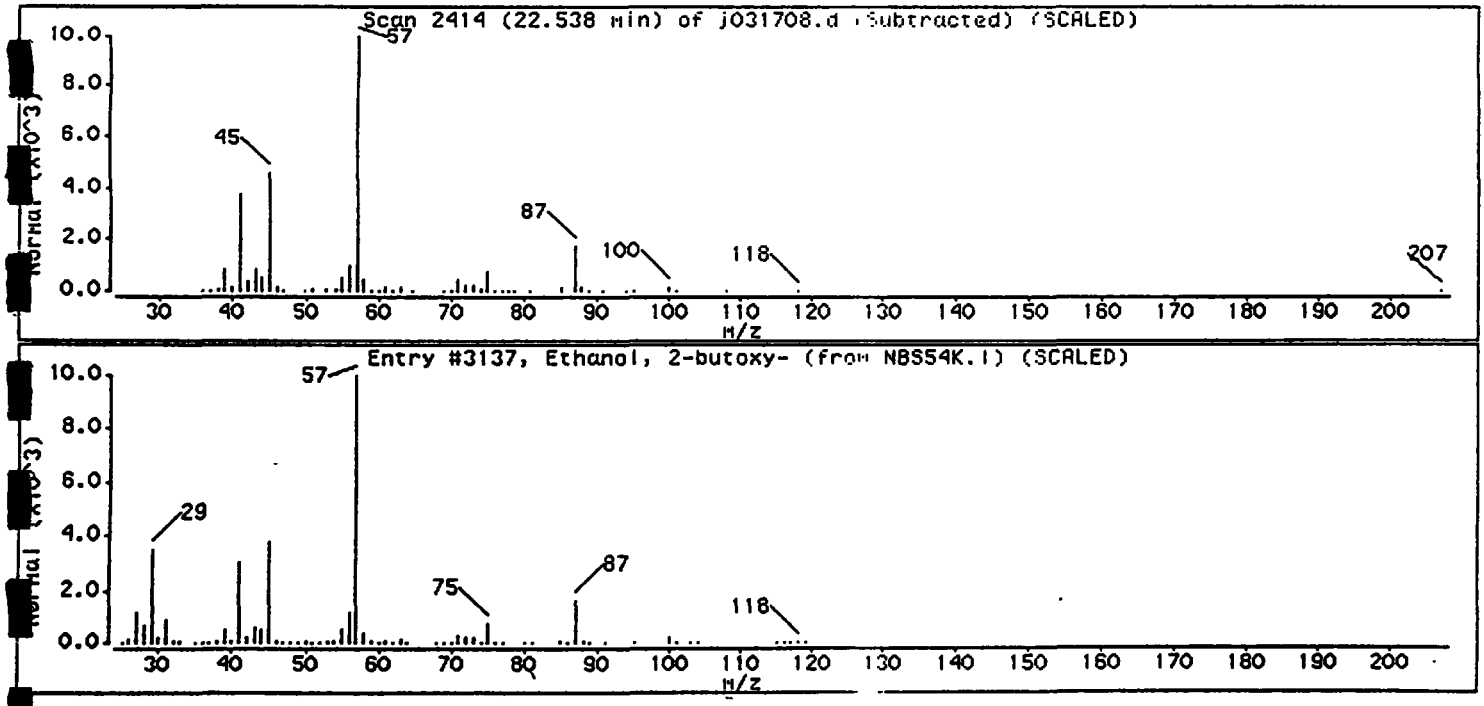


Data File: /chem/msdj.i/j-17mar.b/j031708.d
Date : 17-MAR-97 13:45
Instrument: msdj.i
Client ID: 031197U2
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

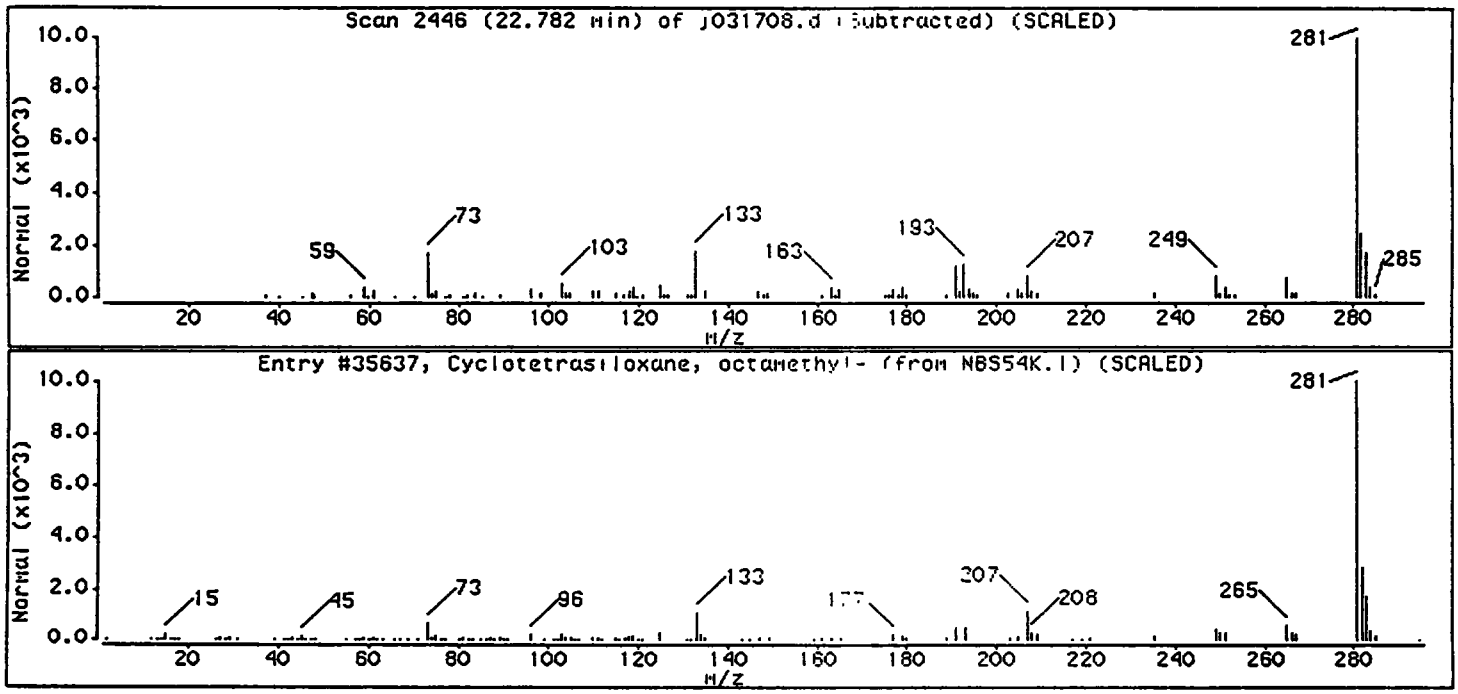


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Ethanol, 2-butoxy-	111-76-2	NBS54K.I	3137	59

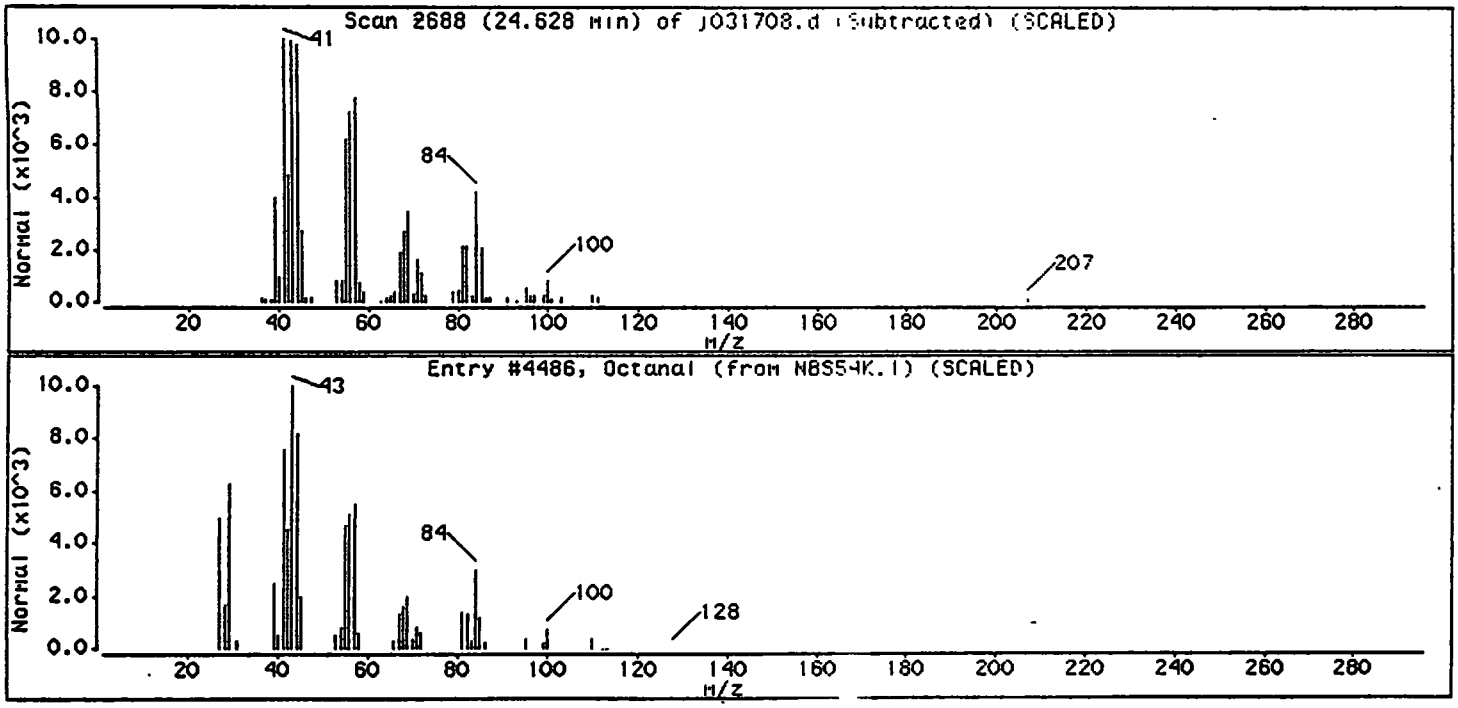


Data File: /chem/msdj.i/j-17mar.b/j031708.d
Date : 17-MAR-97 13:45
Instrument: msdj.i
Client ID: 031197U2
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS54K.I	35637	72

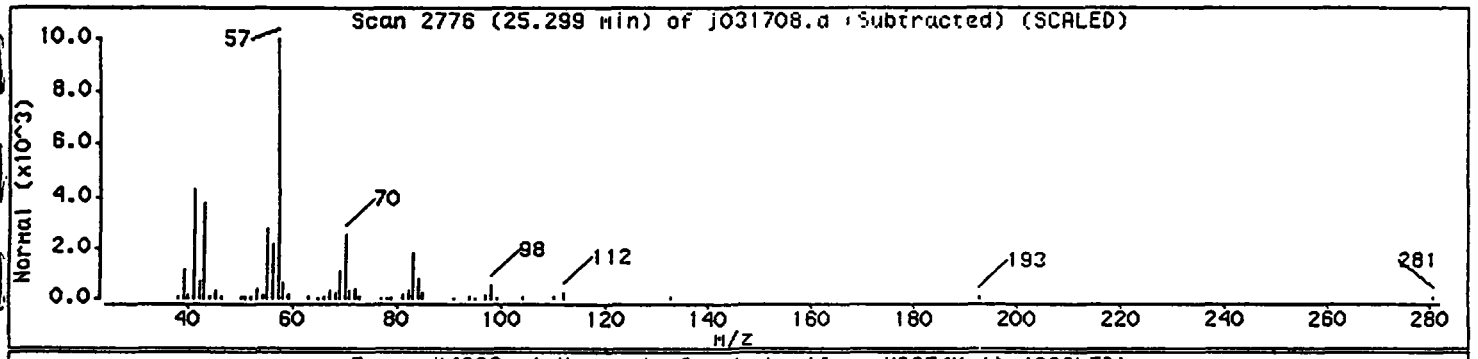


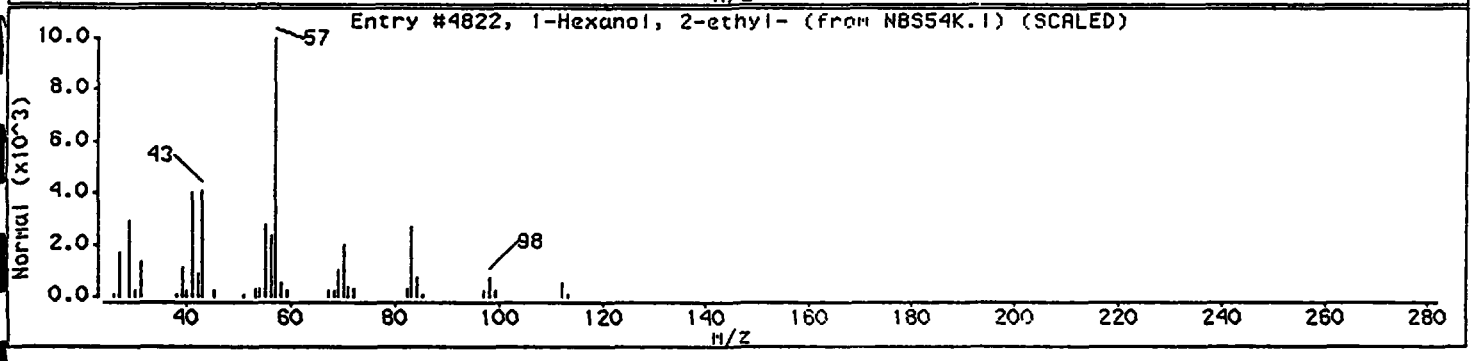
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Octanal	124-13-0	NBS54K.I	4486	72



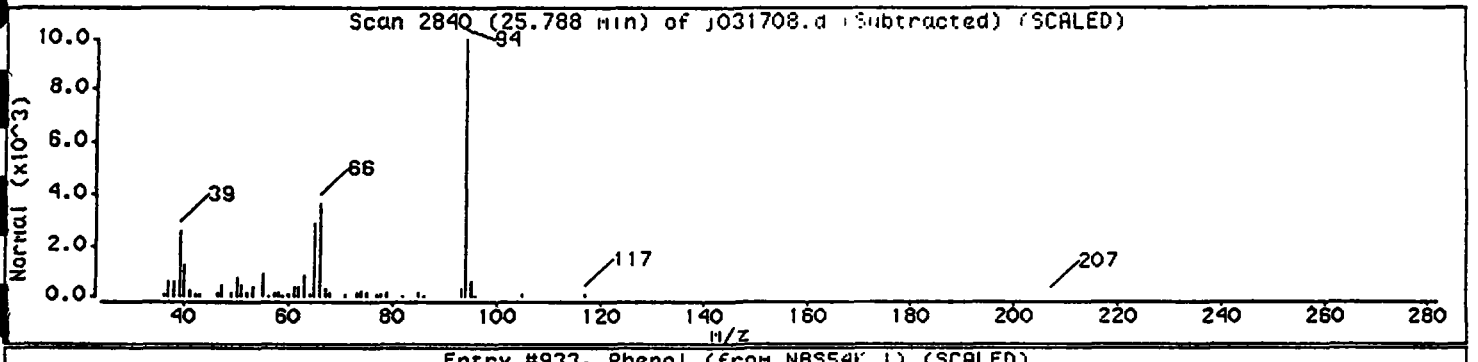
Data File: /chem/msdj.i/j-17mar.b/j031708.d
Date : 17-MAR-97 13:45
Instrument: msdj.i
Client ID: 031197U2
Column phase: RTx-624 Column diameter: 0.58

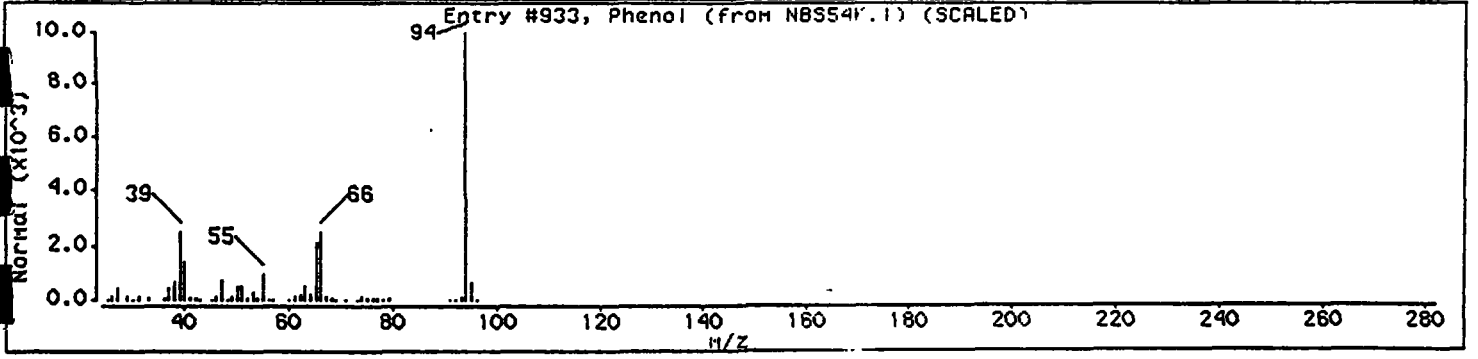
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1-Hexanol, 2-ethyl-	104-76-7	NBS54K.I	4822	64





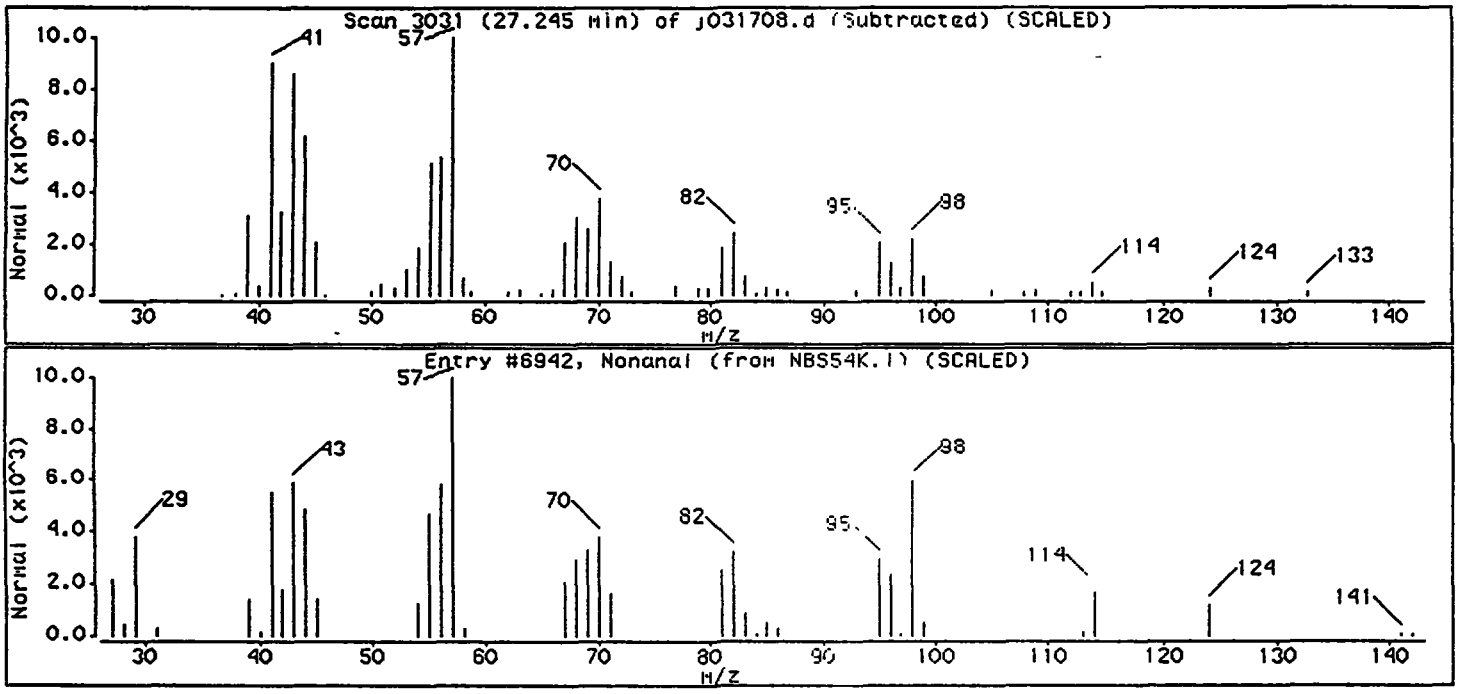
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Phenol	108-95-2	NBS54K.I	933	86





Data File: /chem/msdj.i/j-17mar.b/j031708.d
Date : 17-MAR-97 13:45
Instrument: msdj.i
Client ID: 031197U2
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Nonanal	124-19-6	NBS54K.I	6942	50



AIR TOXICS LTD.

SAMPLE NAME: 031197U1

ID#: 9703097-02A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j031709	Date of Collection:	3/11/97
Dil. Factor:	1.87	Date of Analysis:	3/17/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.94	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected
Benzene	0.19	1.0
1,2-Dichloroethane	0.19	Not Detected
Trichloroethene	0.19	Not Detected
1,2-Dichloropropane	0.19	Not Detected
Toluene	0.19	0.67
Tetrachloroethene	0.19	Not Detected
Chlorobenzene	0.19	Not Detected
Ethyl Benzene	0.19	Not Detected
m,p-Xylene	0.19	0.27
o-Xylene	0.19	Not Detected
Styrene	0.19	Not Detected
Acetone	0.94	14
Carbon Disulfide	0.94	3.1
trans-1,2-Dichloroethene	0.94	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.94	5.1

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	106	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	108	70-130

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-17mar.b/j031709.d
Lab Smp Id: 9703097-02A
Inj Date : 17-MAR-1997 14:29
Operator : MH
Smp Info : 500mL Can#14873 031197U1
Misc Info : 8.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe
Cal Date : 09-JAN-1997 12:48
Als bottle: 1
Dil Factor: 1.870
Integrator: HP RTE
Target Version: 3.12
Concentration Formula: Uf * Vf

Client Smp ID: 031197U1
Inst ID: msdj.i
Quant Type: ISTD
Cal File: j010909.d
Compound Sublist: Parsons.sub
Sample Matrix: AIR

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

REVIEWED BY
MAR 18 1997
FRANCISCO AYALA

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
15.802	15.820 (1.000)	130	182784	5.0			100.00	9232
15.802	15.820 (0.000)	128	41272			29.23- 129.23	22.58	
15.802	15.820 (0.000)	49	101504			130.39- 230.39	55.53	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.313	16.346 (1.032)	217	452204	5.3	5.3		100.00	8087
16.313	16.346 (0.000)	186	94792			13.54- 113.54	20.96	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.121	17.155 (1.000)	114	797752	5.0			100.00	9247
17.121	17.155 (0.000)	88	45456			0.00- 69.19	5.70	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.128	19.169 (1.117)	98	748918	5.2	5.2		100.00	9941
19.128	19.169 (0.000)	70	32246			0.00- 63.99	4.31	
19.128	19.169 (0.000)	100	149136			15.53- 115.53	19.91	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.180	21.229 (1.000)	117	690900	5.0			100.00	9992
21.180	21.229 (0.000)	82	117944			14.83- 114.83	17.07	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
65 Bromofluorobenzene					CAS #: 460-00-4			
23.004	23.060 (1.086)	95	573438	5.4	5.4		100.00	8051
23.004	23.060 (0.000)	174	80312			7.76- 107.76	14.01	
23.004	23.060 (0.000)	176	76512			7.57- 107.57	13.34	
16 Acetone					CAS #: 67-64-1			
12.651	12.578 (0.801)	43	539552	7.4	13.9		100.00	
12.651	12.578 (0.801)	58	158248			0.00- 79.57	29.33	
17 Carbon Disulfide					CAS #: 75-15-0			
12.841	12.707 (0.813)	76	230765	1.7	3.1		100.00	8006
28 2-Butanone					CAS #: 78-93-3			
15.443	15.461 (0.977)	72	55395	2.7	5.1		100.00	7842
15.443	15.461 (0.000)	43	76700			451.27- 551.27	138.46	
15.443	15.461 (0.000)	57	4927			0.00- 84.11	8.89	
37 Benzene					CAS #: 71-43-2			
16.687	16.705 (0.975)	78	83423	0.55	1.0		100.00	9436
16.687	16.705 (0.000)	77	6120			0.00- 74.19	7.34	
51 Toluene					CAS #: 108-88-3			
19.227	19.268 (1.123)	92	32814	0.36	0.67		100.00	7574
19.227	19.268 (0.000)	91	16235			118.26- 218.26	49.48	
61 m,p-Xylene					CAS #: 108-38-3			
21.462	21.519 (1.013)	106	10267	0.14	0.27		100.00	
21.462	21.519 (1.013)	91	24670			164.96- 264.96	240.28	

MH
3/17/97

Audit History For: /chem/msdj.i/j-17mar.b/j031709.d

Change Date: 17-Mar-97 14:48
Change Made by: Automation

  Parameter: ChemLan Data Transfer
  Old Value:
  New Value:
  Reason For Change: MS Data from Instrument: msdj.i

Change Date: 17-Mar-97 14:48
Change Made by: Automation

  Parameter: Target Processing
  Old Value:
  New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
  Reason For Change: Complete Target Compound Processing

Change Date: 17-Mar-97 14:52
Change Made by: mhe

  Parameter: date
  Old Value: 17-MAR-97 14:29
  New Value: 17-MAR-1997 14:29
  Reason For Change: N/A

Change Date: 17-Mar-97 14:52
Change Made by: mhe

  Parameter: Misc Information
  Old Value:
  New Value: 8.5"Hg-5.0psi Parsons
  Reason For Change: N/A

Change Date: 17-Mar-97 14:52
Change Made by: mhe

  Parameter: Compound Sublist
  Old Value: AT.sub
  New Value: Parsons.sub
  Reason For Change: N/A

Change Date: 17-Mar-97 14:52
Change Made by: mhe

  Parameter: Sample Info
  Old Value: 9703097-02A 500mL Can#14873 Parsons 8.5"-5psi 031197U1
  New Value: 500mL Can#14873 031197U1
  Reason For Change: N/A

Change Date: 17-Mar-97 14:52
Change Made by: mhe

  Parameter: Lab ID
  Old Value:
  New Value: 9703097-02A
  Reason For Change: N/A

Change Date: 17-Mar-97 14:52
Change Made by: mhe

Parameter: Client ID
Old Value: VSTD150
New Value: 031197U1
Reason For Change: N/A

Change Date: 17-Mar-97 14:52
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

Change Date: 17-Mar-97 14:53
Change Made by: mhe

Parameter: Best Hit for Methylene Chloride changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:53
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:53
Change Made by: mhe

Parameter: Best Hit for 1,1,1-Trichlorethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:53
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Manual reintegration of 1,2-Dichloroethane (Signal 1)
Old Value: No previous peak at 16.648
New Value: New Area/Time: 77 / 16.65

Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Manual reintegration of 1,2-Dichloroethane (Signal 1)
Old Value: Old Area/Time: 77 / 16.65
New Value: New Area/Time: 1212 / 16.69
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Best Hit for Trichloroethene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Manual reintegration of Trichloroethene (Signal 1)
Old Value: No previous peak at 17.526
New Value: New Area/Time: 1318 / 17.53
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Best Hit for Trichloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Manual reintegration of Tetrachloroethene (Signal 1)
Old Value: No previous peak at 20.021
New Value: New Area/Time: 609 / 20.02
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Manual reintegration of Chlorobenzene (Signal 1)
Old Value: No previous peak at 21.226
New Value: New Area/Time: 1362 / 21.23
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:

Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Manual reintegration of Ethyl Benzene (Signal 1)
Old Value: Old Area/Time: 10267 / 21.46
New Value: New Area/Time: 3181 / 21.31
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Best Hit for Ethyl Benzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Best Hit for o-Xylene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:54
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:55
Change Made by: mhe

Parameter: Best Hit for Styrene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 14:55
Change Made by: mhe

Parameter: Manual reintegration of Styrene (Signal 1)
Old Value: No previous peak at 22.111
New Value: New Area/Time: 3228 / 22.11
Reason For Change: N/A

Change Date: 17-Mar-97 14:55
Change Made by: mhe

Parameter: Best Hit for Styrene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 14:55
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 14:55
Change Made by: mhe

Parameter: Best Match for Unknown compound at 22.630 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 17-Mar-97 14:55
Change Made by: mhe

Parameter: Best Match for Unknown compound at 25.796 min. changed.
Old Value: Old match: Phenol
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 17-Mar-97 14:55
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

Data File: /chem/msdj.i/j-17mar.b/j031709.d
Report Date: 17-Mar-1997 14:52

MH 3/17/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-17mar.b/j031709.d
Lab Smp Id: 9703097-02A Client Smp ID: 031197U1
Inj Date : 17-MAR-1997 14:29
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#14873 031197U1
Misc Info : 8.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.870
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
15.802	15.820 (1.000)	130	182784	5.0			100.00	9232
15.802	15.820 (0.000)	128	41272			29.23- 129.23	22.58	
15.802	15.820 (0.000)	49	101504			130.39- 230.39	55.53	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.313	16.346 (1.032)	217	452204	5.3	5.3		100.00	8087
16.313	16.346 (0.000)	186	94792			13.54- 113.54	20.96	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.121	17.155 (1.000)	114	797752	5.0			100.00	9247
17.121	17.155 (0.000)	88	45456			0.00- 69.19	5.70	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.128	19.169 (1.117)	98	748918	5.2	5.2		100.00	9941
19.128	19.169 (0.000)	70	32246			0.00- 63.99	4.31	
19.128	19.169 (0.000)	100	149136			15.53- 115.53	19.91	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.180	21.229 (1.000)	117	690900	5.0			100.00	9992
21.180	21.229 (0.000)	82	117944			14.83- 114.83	17.07	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
58 Chlorobenzene-d5 (continued)								
21.524	21.229 (1.000)	117	880	5.0			100.00	7227(Q)
21.524	21.229 (0.000)	82	241			14.83- 114.83	27.39	
$ 65 Bromofluorobenzene					CAS #: 460-00-4			
23.004	23.060 (1.086)	95	573438	5.4	5.4		100.00	8051
23.004	23.060 (0.000)	174	80312			7.76- 107.76	14.01	
23.004	23.060 (0.000)	176	76512			7.57- 107.57	13.34	
16 Acetone					CAS #: 67-64-1			
12.651	12.578 (0.801)	43	539552	7.4	13.9		100.00	
12.651	12.578 (0.801)	58	158248			0.00- 79.57	29.33	
13.063	12.578 (0.827)	43	14812	0.20	0.38		100.00	(a)
13.078	12.578 (0.828)	58	535			0.00- 79.57	3.61	
17 Carbon Disulfide					CAS #: 75-15-0			
12.841	12.707 (0.813)	76	230765	1.7	3.1		100.00	8006
20 Methylene Chloride					CAS #: 75-09-2			
13.467	13.409 (0.852)	84	4468	0.11	0.20 <		100.00	2641
13.467	13.409 (0.000)	49	1686			101.55- 201.55	37.74	
13.467	13.409 (0.000)	51	697			0.00- 96.86	15.60	
28 2-Butanone					CAS #: 78-93-3			
15.443	15.461 (0.977)	72	55395	2.7	5.1		100.00	7842
15.443	15.461 (0.000)	43	76700			451.27- 551.27	138.46	
15.443	15.461 (0.000)	57	4927			0.00- 84.11	8.89	
15.184	15.461 (0.961)	72	52576	2.6	4.9		100.00	4538(Q)
15.184	15.461 (0.000)	43	22895			451.27- 551.27	43.55	
15.184	15.461 (0.000)	57	6661			0.00- 84.11	12.67	
33 1,1,1-Trichlorethane					CAS #: 71-55-6			
16.153	16.186 (1.022)	97	4936	0.058	0.11 <		100.00	6574(a)
16.153	16.186 (0.000)	99	773			14.04- 114.04	15.66	
37 Benzene					CAS #: 71-43-2			
16.687	16.705 (0.975)	78	83423	0.55	1.0		100.00	9436
16.687	16.705 (0.000)	77	6120			0.00- 74.19	7.34	
51 Toluene					CAS #: 108-88-3			
19.227	19.268 (1.123)	92	32814	0.36	0.67		100.00	7574
19.227	19.268 (0.000)	91	16235			118.26- 218.26	49.48	
60 Ethyl Benzene					CAS #: 100-41-4			
21.462	21.366 (1.013)	106	10267	0.14	0.26		100.00	(Q)

RT	EXP RT	(REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
60 Ethyl Benzene (continued)									
21.462	21.366	(1.013)	91	24670			296.25- 396.25	240.28	
61 m,p-Xylene						CAS #: 108-38-3			
21.462	21.519	(1.013)	106	10267	0.14	0.27		100.00	
21.462	21.519	(1.013)	91	24670			164.96- 264.96	240.28	
62 o-Xylene						CAS #: 95-47-6			
22.119	22.168	(1.044)	106	3484	0.079	0.15		100.00	8432(a)
22.119	22.168	(0.000)	91	2443			176.02- 276.02	70.12	

QC Flag Legend

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

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-17mar.b/j031709.d
Lab Smp Id: 9703097-02A Client Smp ID: 031197U1
Inj Date : 17-MAR-1997 14:29
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#14873 031197U1
Misc Info : 8.5"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.870 Target Version: 3.12
Integrator: HP RTE Compound Sublist: Parsons.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

	ISTD	RT	AREA	AMOUNT
*	30 Bromochloromethane	15.802	1325585	5.000
*	40 1,4-Difluorobenzene	17.121	2042074	5.000
*	58 Chlorobenzene-d5	21.180	2360403	5.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #
Acetaldehyde				CAS #: 75-07-0			
9.294	639267	2.4	4.5	86	NBS54K.l	37	30
Butane, 2-methyl-				CAS #: 78-78-4			
10.698	322353	1.2	2.3	64	NBS54K.l	272	30
utanal				CAS #: 123-72-8			
15.184	404272	1.5	2.8	64	NBS54K.l	257	30

Data File: /chem/msdj.i/j-17mar.b/j031709.d
Report Date: 17-Mar-1997 14:52

RT	AREA	CONCENTRATIONS ON-COL(PPBV)	CONCENTRATIONS FINAL(PPBV)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Silanol, trimethyl-					CAS #: 1066-40-6		
15.268	630441	2.4	4.4	50	NBS54K.l	840	30
Acetic acid					CAS #: 64-19-7		
16.839	226530	0.55	1.0	50	NBS54K.l	113	40
1-Butanol					CAS #: 71-36-3		
17.297	520517	1.3	2.4	86	NBS54K.l	322	40
Unknown					CAS #:		
17.793	429621	1.0	2.0	0		0	40
Butanoic acid, ethyl ester					CAS #: 105-54-4		
19.746	793890	1.7	3.1	90	NBS54K.l	2890	58
Hexanal					CAS #: 66-25-1		
20.127	279203	0.59	1.1	83	NBS54K.l	1424	58
Butanoic acid, propyl ester					CAS #: 105-66-8		
21.798	278807	0.59	1.1	86	NBS54K.l	4767	58
Unknown					CAS #:		
22.630	1708525	3.6	6.8	0		0	58
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
22.782	830570	1.8	3.3	64	NBS54K.l	35637	58
Hexanoic acid, ethyl ester					CAS #: 123-66-0		
23.965	236846	0.50	0.94	59	NBS54K.l	7238	58
1-Hexanol, 2-ethyl-					CAS #: 104-76-7		
25.300	383894	0.81	1.5	50	NBS54K.l	4822	58
Phenol					CAS #: 108-95-2		
25.796	212627	0.45	0.84	91	NBS54K.l	933	58

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j031709.d
Lab Smp Id: 9703097-02A
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-17mar.b/to140109.m
Misc Info: 8.5"Hg-5.0psi Parsons

Calibration Date: 03/17/97
Calibration Time: 0849
Client Smp ID: 031197U1
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	234650	140790	328510	182784	-22.10
40 1,4-Difluorobenzene	1091071	654643	1527499	797752	-26.88
58 Chlorobenzene-d5	904693	542816	1266570	690900	-23.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	15.78	15.28	16.28	15.80	0.16
40 1,4-Difluorobenzene	17.11	16.61	17.61	17.12	0.06
58 Chlorobenzene-d5	21.18	20.68	21.68	21.18	0.01

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

MH 3/17/97

Data File: /chem/msdj.i/j-17mar.b/j031709.d
Report Date: 17-Mar-1997 14:52

Air Toxics Limited

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 9703097-02A
Level: LOW
Data Type: MS DATA
SpikeList File:
Method File: /chem/msdj.i/j-17mar.b/to140109.m
Misc Info: 8.5"Hg-5.0psi Parsons

Client SDG: j-17mar
Fraction: VOA
Client Smp ID: 031197U1
Operator: MH
SampleType: SAMPLE
Quant Type: ISTD

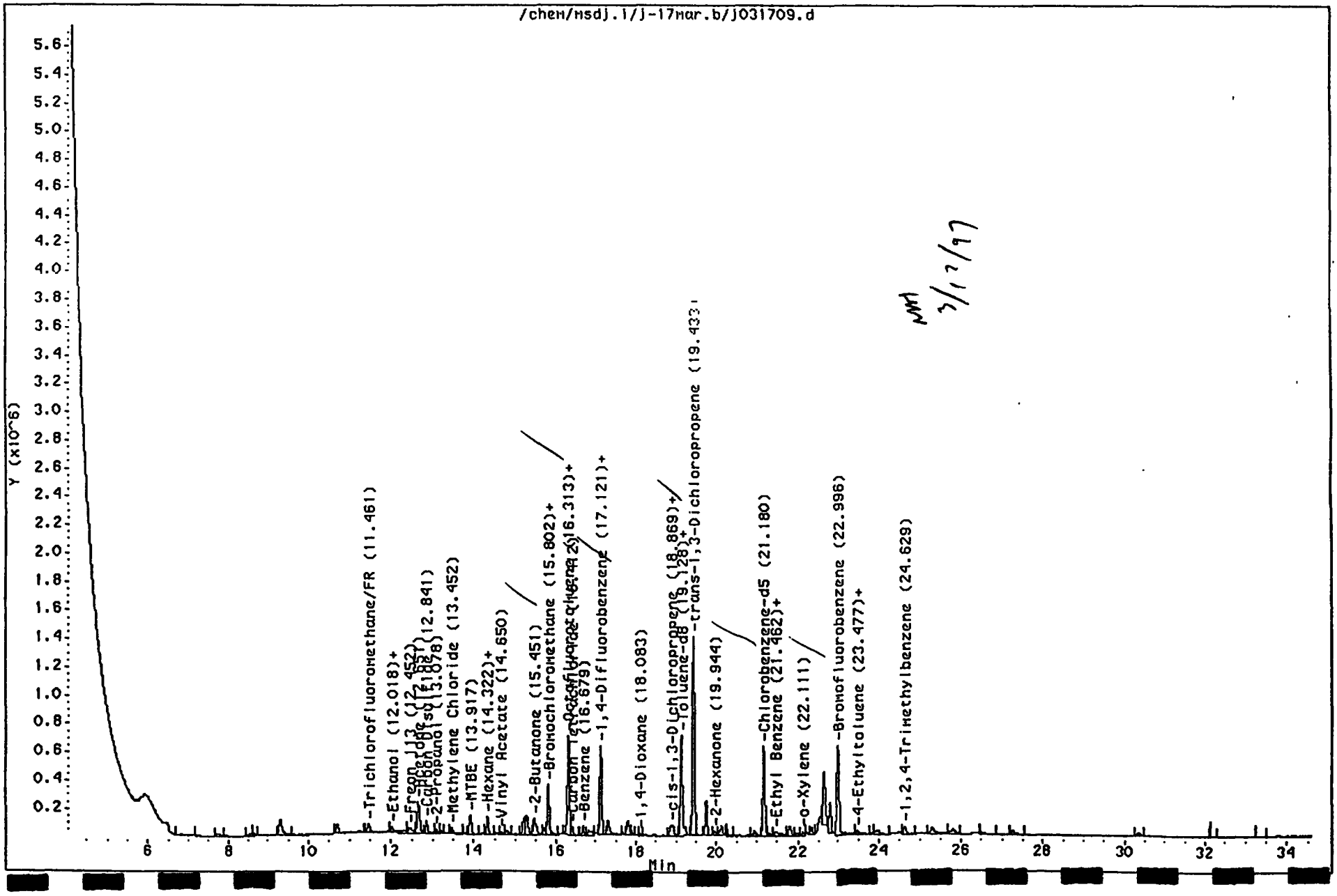
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	5.3	106.78	60-140
$ 49 Toluene-d8	5.0	5.2	103.76	60-140
$ 65 Bromofluorobenzene	5.0	5.4	107.19	60-140

MH
3/17/97

Data File: /chem/msdj.i/j-17mar.b/j031709.d
Date : 17-MAR-1997 14:29
Client ID: 031197U1
Sample Info: 500mL Can#14873 031197U1

Instrument: msdj.i
Operator: MH
Column diameter: 0.58

Column phase: RTx-624



MH 3/17/97

Data File: /chem/msdj.i/j-17mar.b/j031709.d

Date : 17-MAR-1997 14:29

Client ID: 031197U1

Instrument: msdj.i

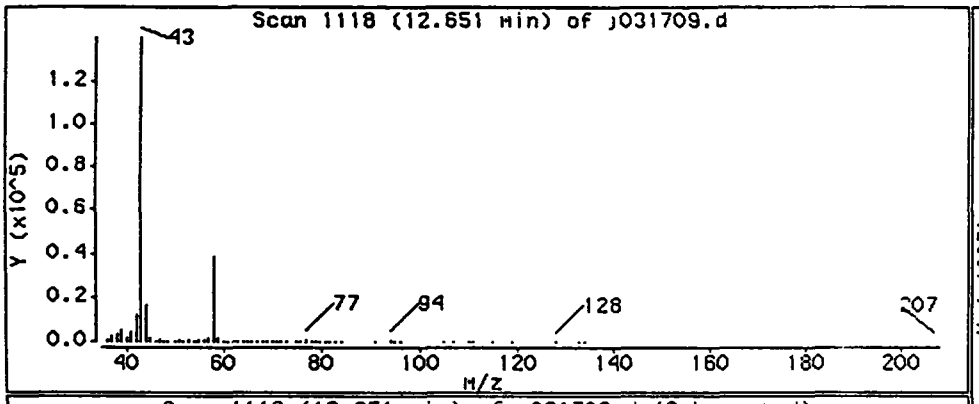
Sample Info: 500mL Can#14873 031197U1

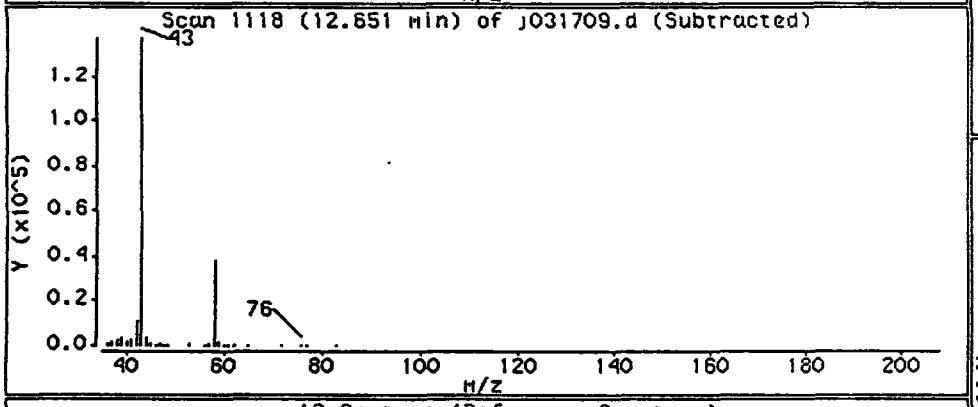
Operator: MH

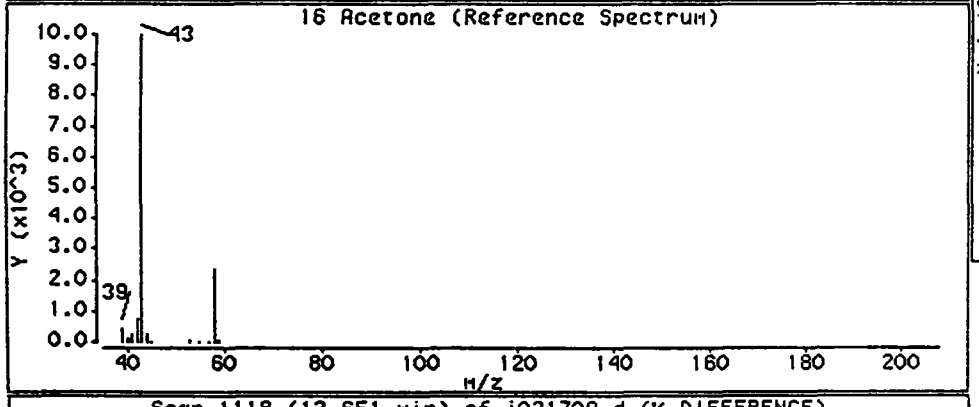
Column phase: RTx-624

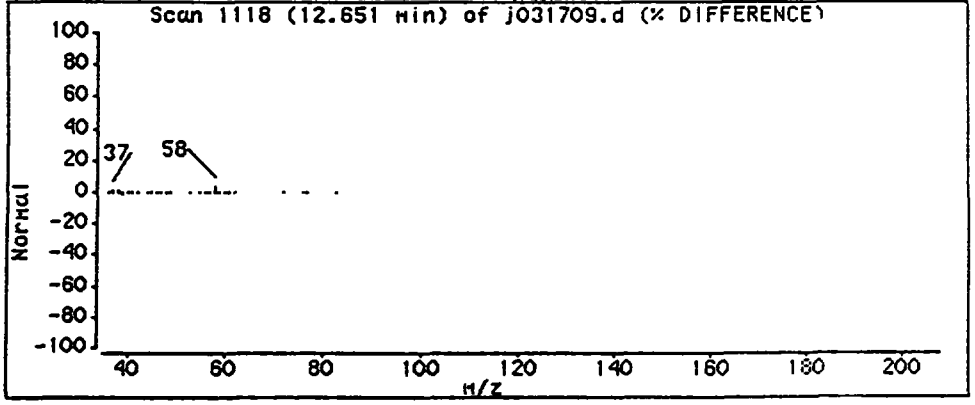
Column diameter: 0.58

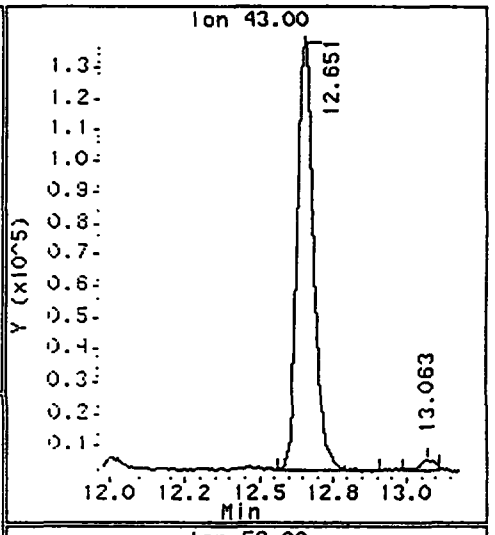
16 Acetone

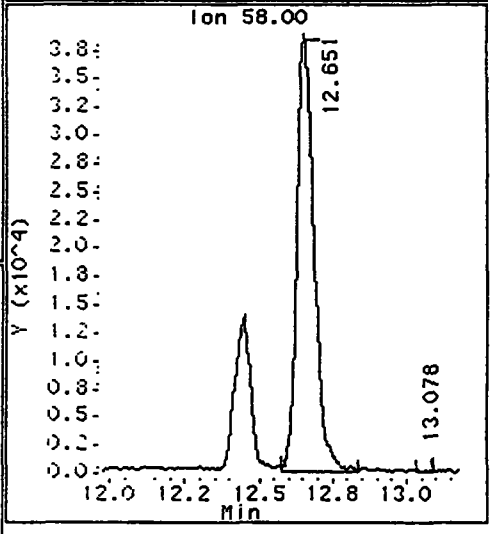












Data File: /chem/msdj.i/j-17mar.b/j031709.d

Date : 17-MAR-1997 14:29

Client ID: 031197U1

Instrument: msdj.i

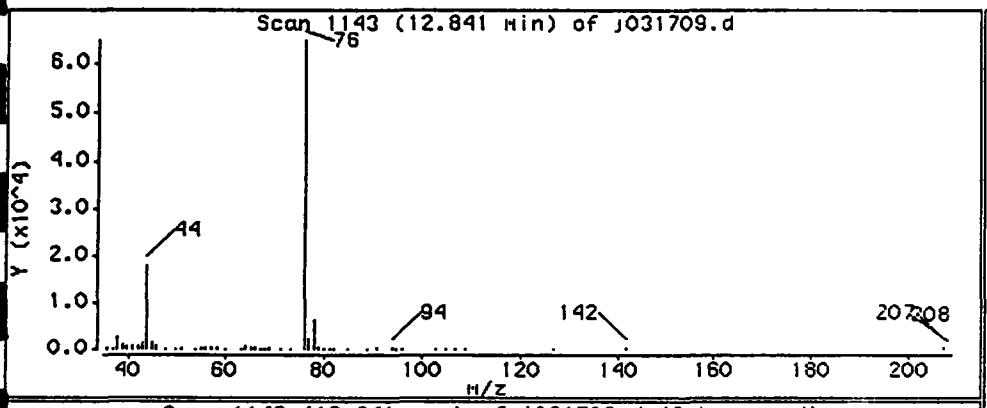
Sample Info: 500mL Can#14873 031197U1

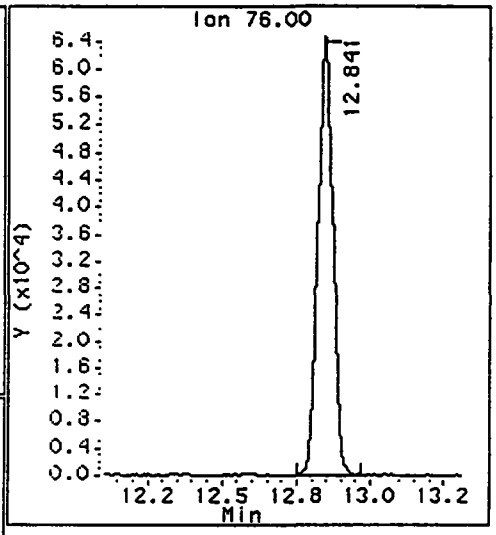
Operator: MH

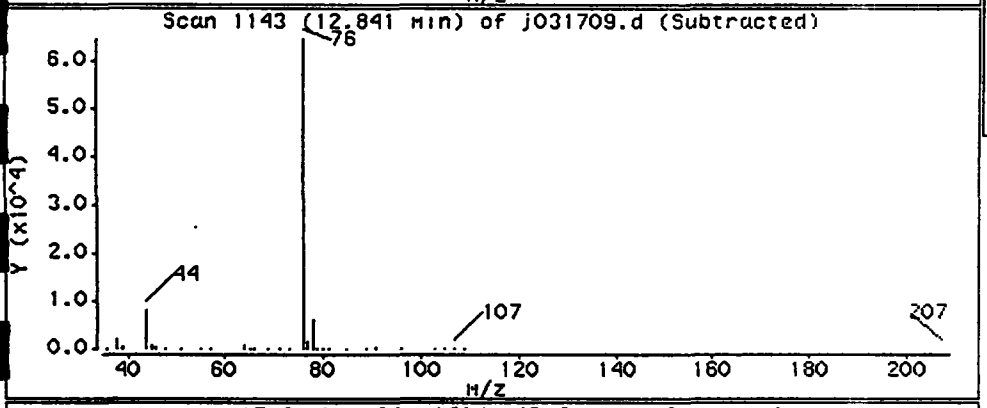
Column phase: RTx-624

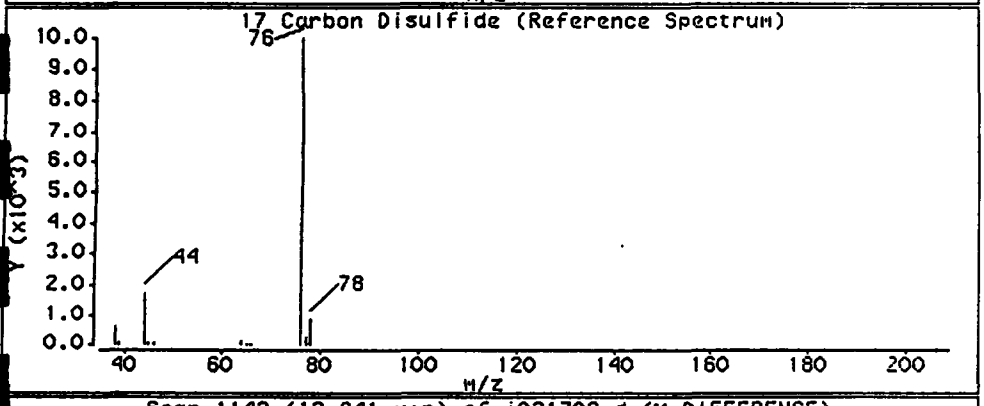
Column diameter: 0.58

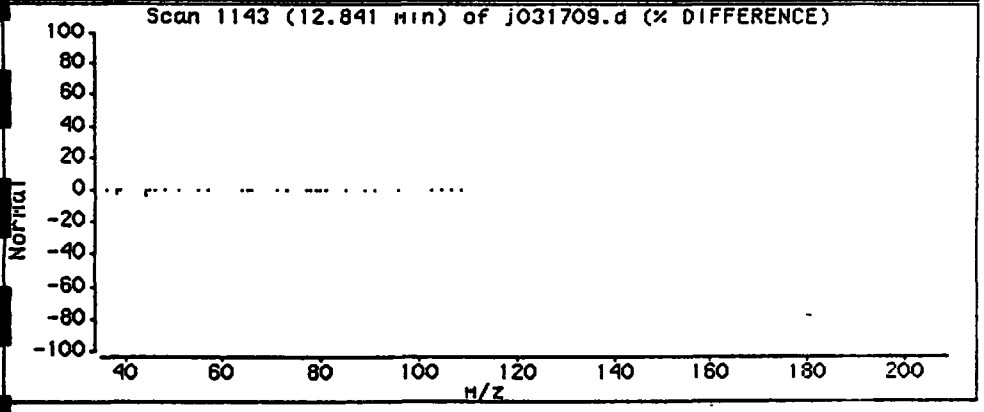
17 Carbon Disulfide











Data File: /chem/msdj.i/j-17mar.b/j031709.d

Date : 17-MAR-1997 14:29

Client ID: 031197U1

Instrument: msdj.i

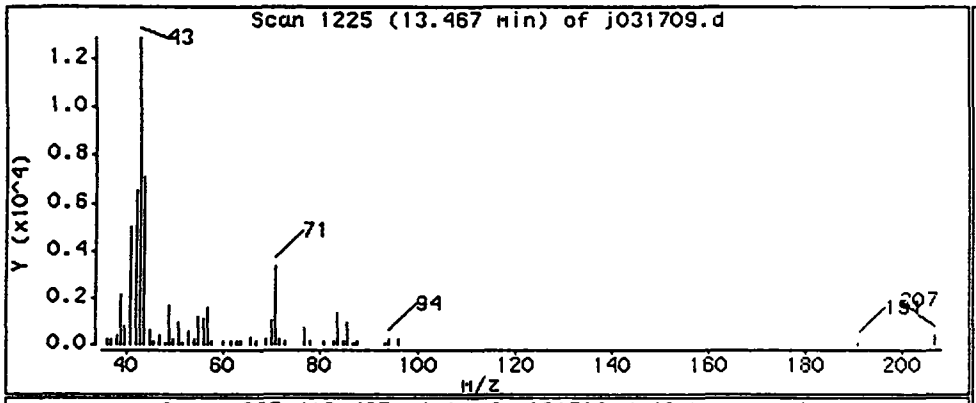
Sample Info: 500mL Can#14873 031197U1

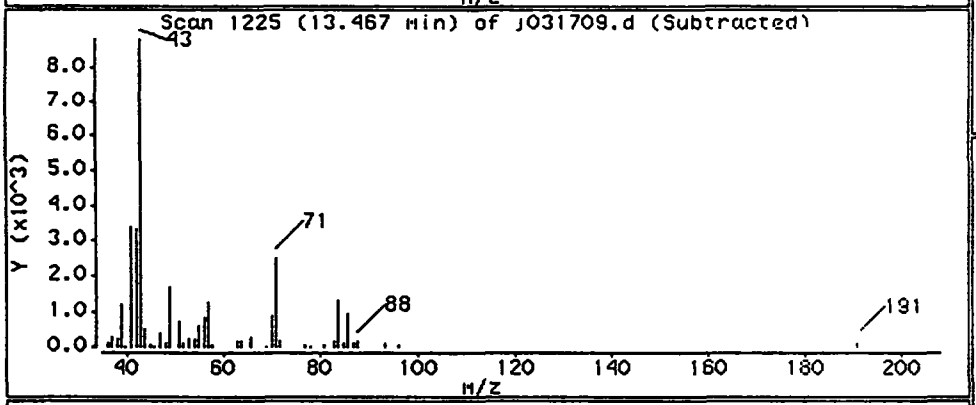
Operator: MH

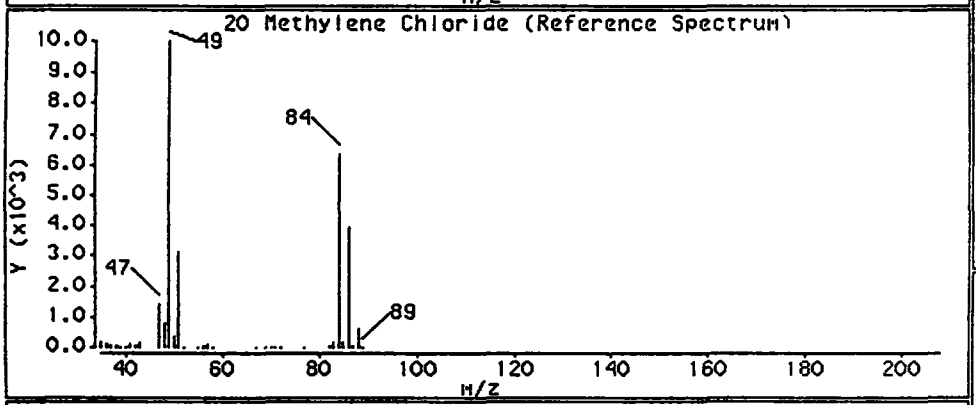
Column phase: RTx-624

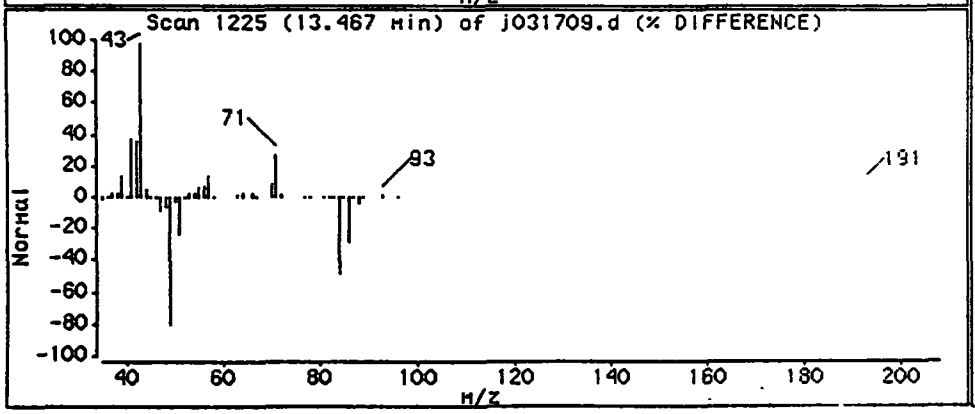
Column diameter: 0.58

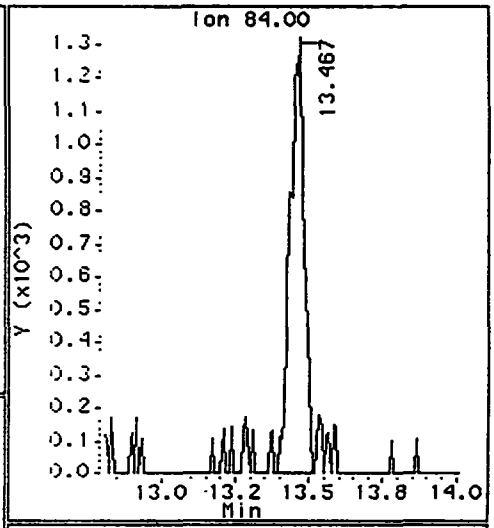
20 Methylene Chloride

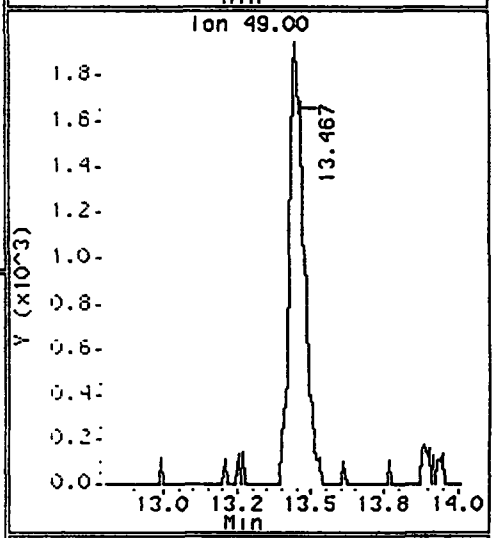


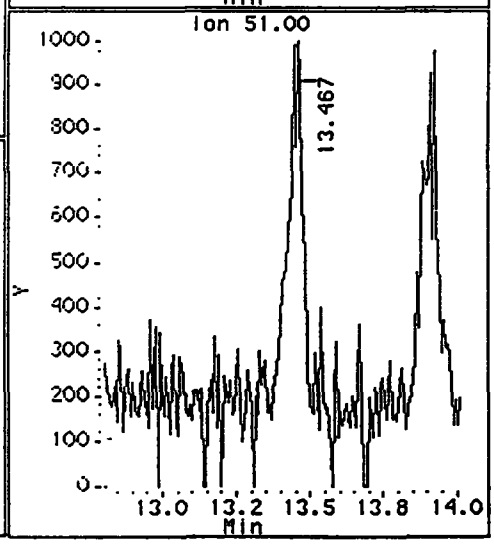












Data File: /chem/msdj.i/j-17mar.b/j031709.d

Date : 17-MAR-1997 14:29

Client ID: 031197U1

Instrument: msdj.i

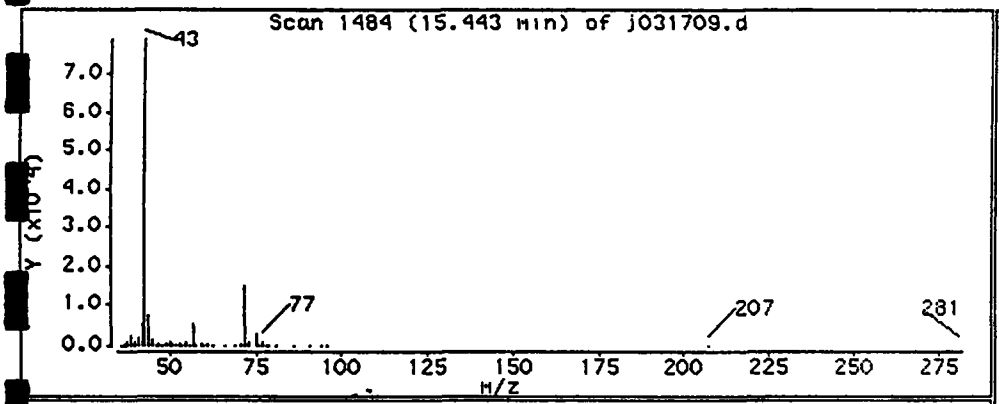
Sample Info: 500mL Can#14873 031197U1

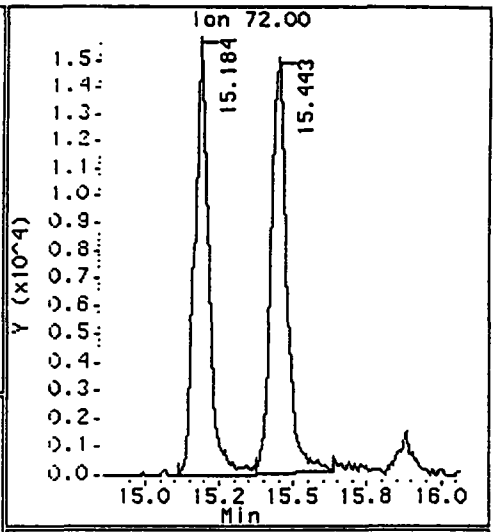
Operator: MH

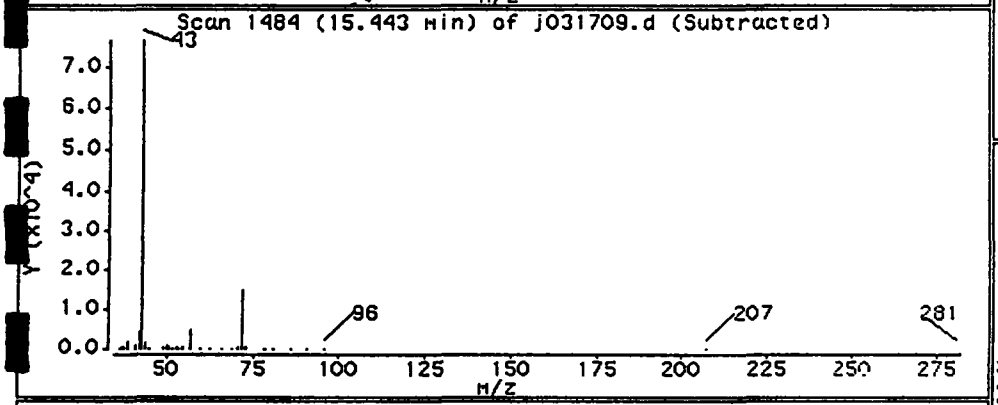
Column phase: RTx-624

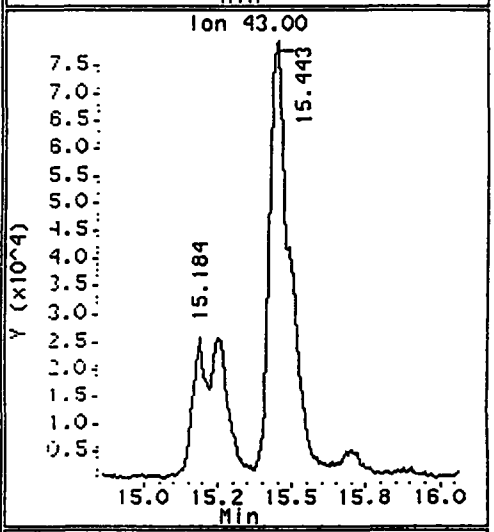
Column diameter: 0.58

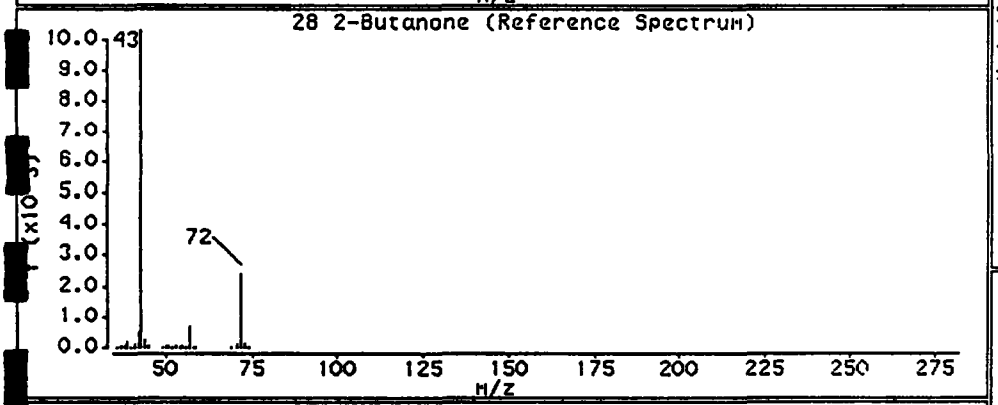
28 2-Butanone

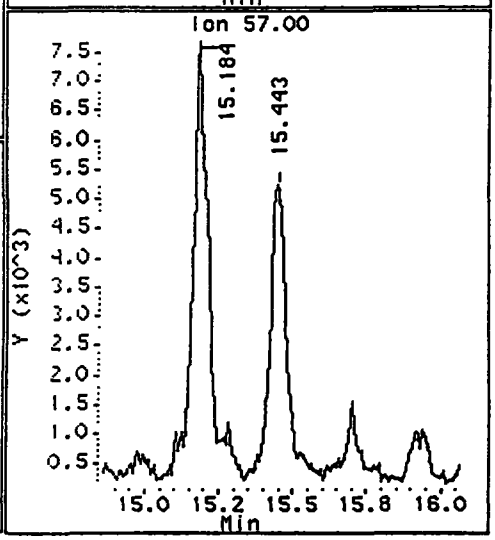


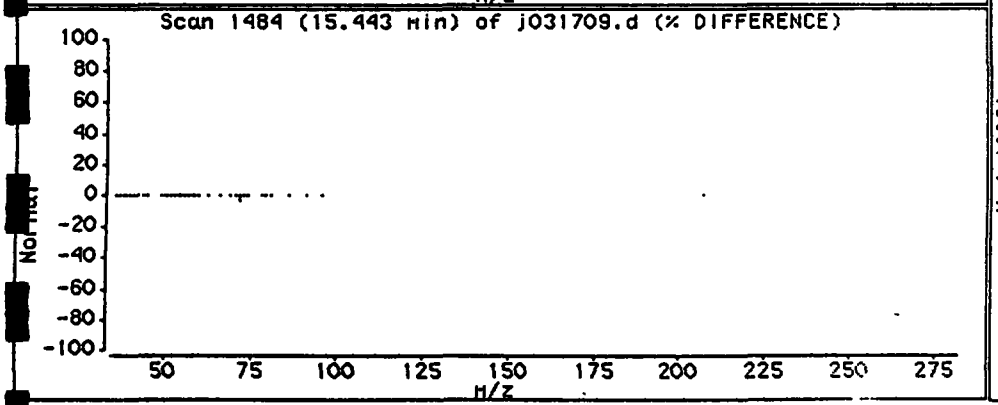












Data File: /chem/msdj.i/j-17mar.b/j031709.d

Date : 17-MAR-1997 14:29

Client ID: 031197U1

Instrument: msdj.i

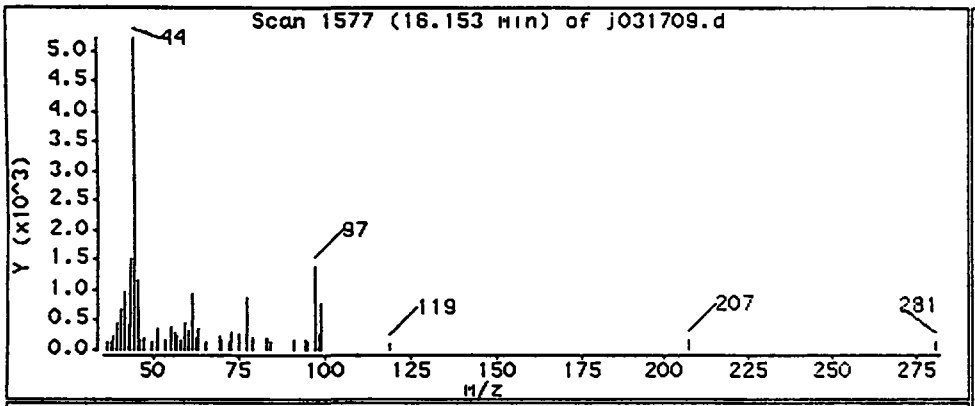
Sample Info: 500mL Can#14873 031197U1

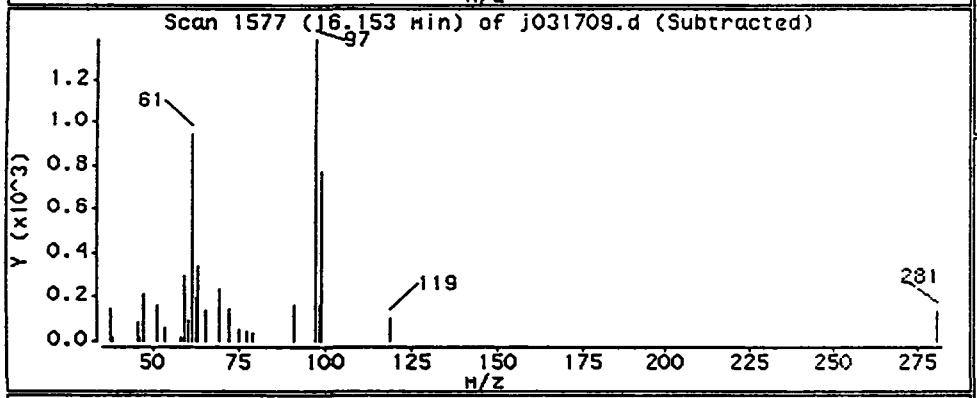
Operator: MH

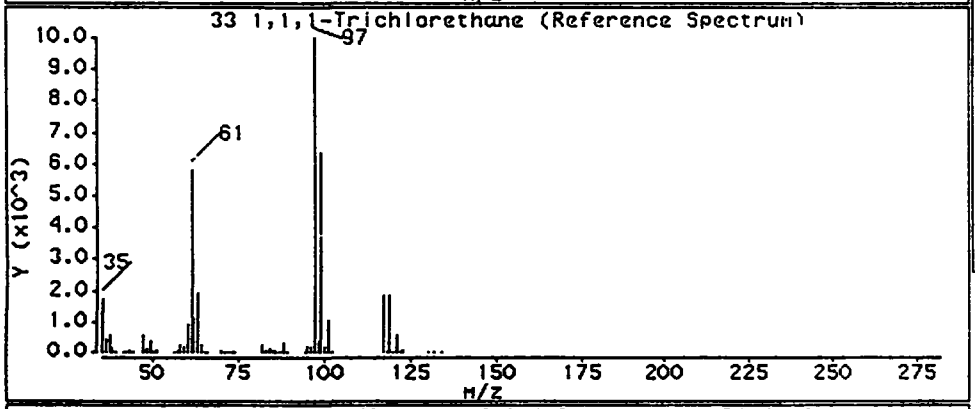
Column phase: RTx-624

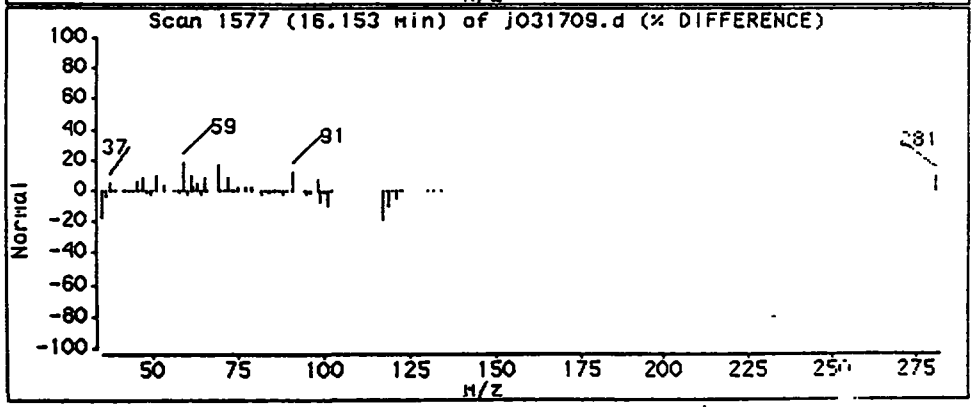
Column diameter: 0.58

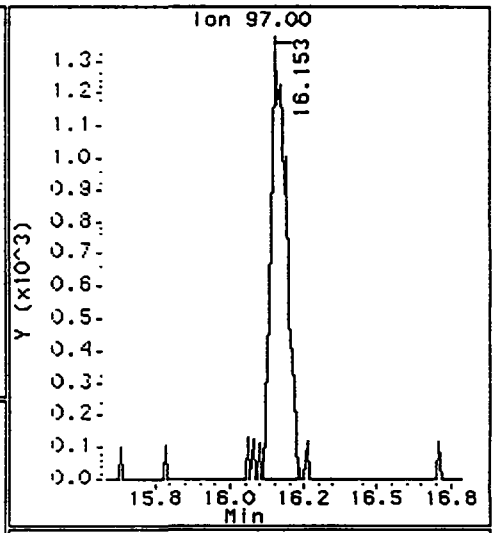
33 1,1,1-Trichlorethane

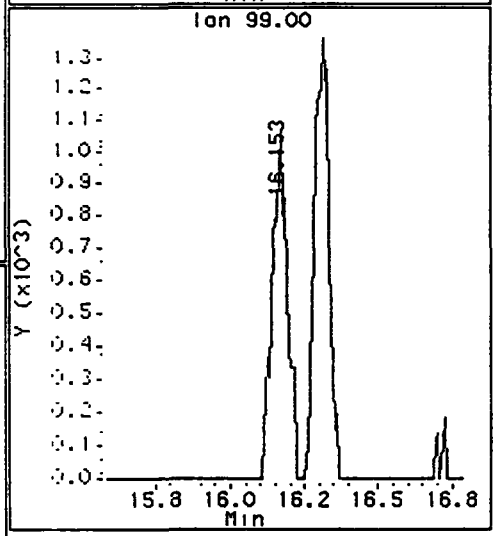












Data File: /chem/msdj.i/j-17mar.b/j031709.d

Date : 17-MAR-1997 14:29

Client ID: 031197U1

Instrument: msdj.i

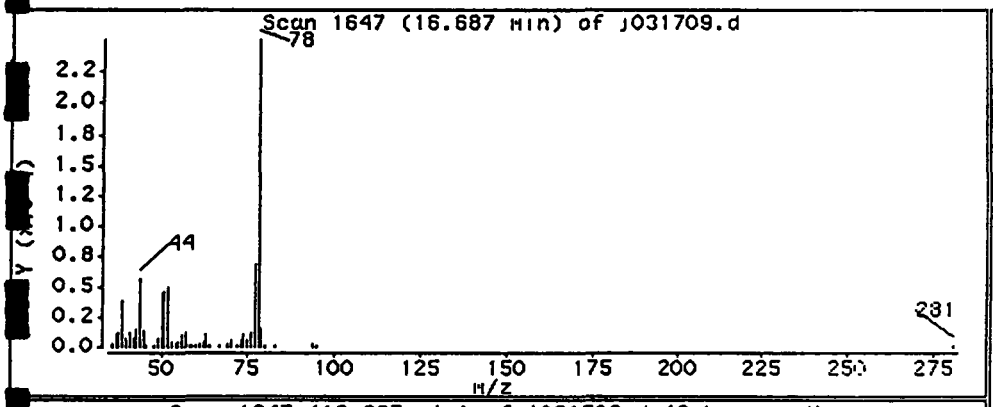
Sample Info: 500mL Can#14873 031197U1

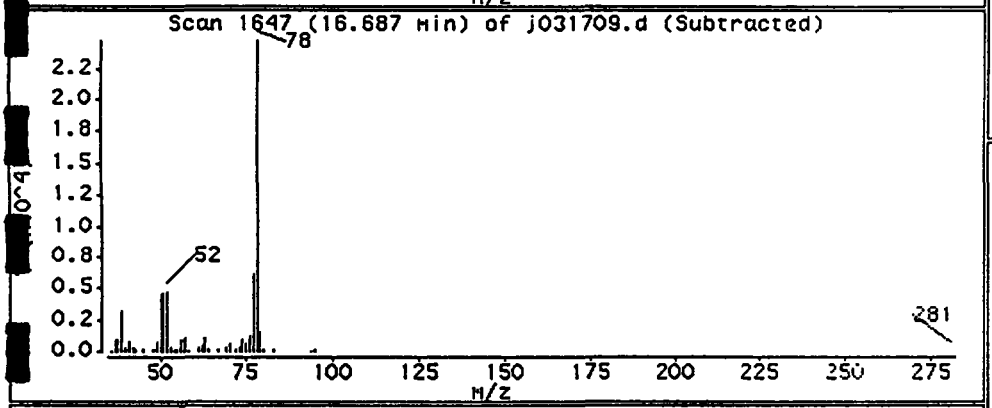
Operator: MH

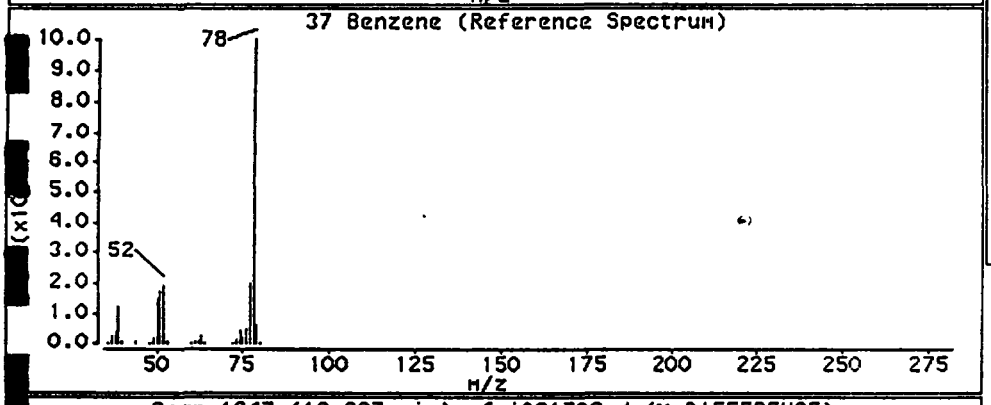
Column phase: RTx-624

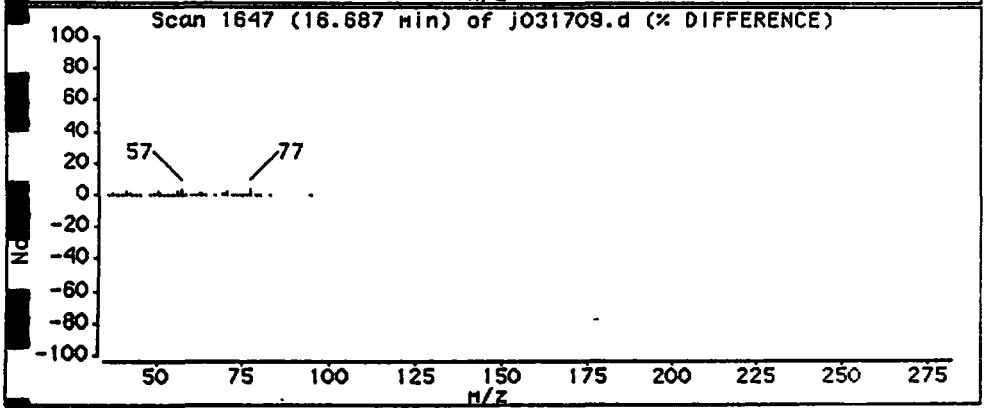
Column diameter: 0.58

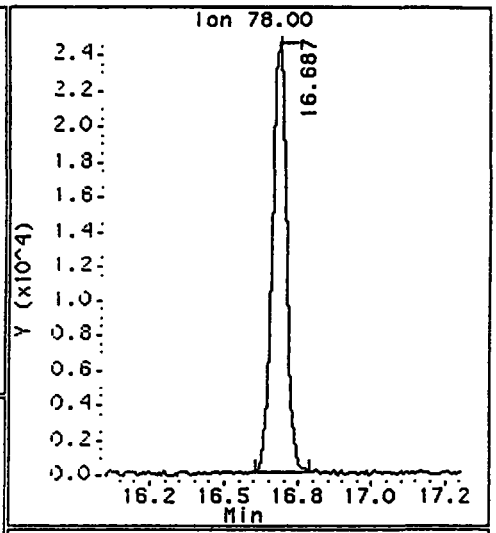
37 Benzene

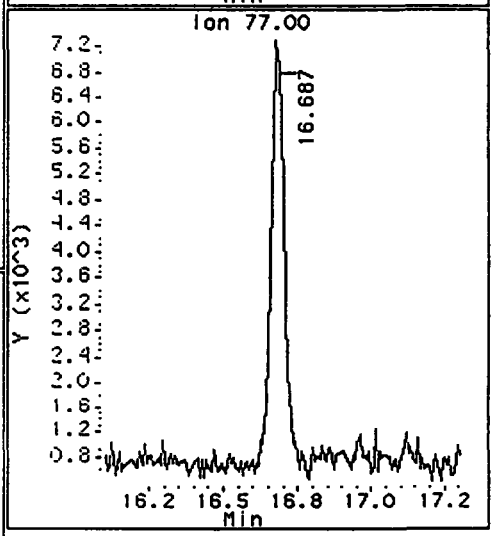












Data File: /chem/msdj.i/j-17mar.b/j031709.d

Date : 17-MAR-1997 14:29

Client ID: 031197U1

Instrument: msdj.i

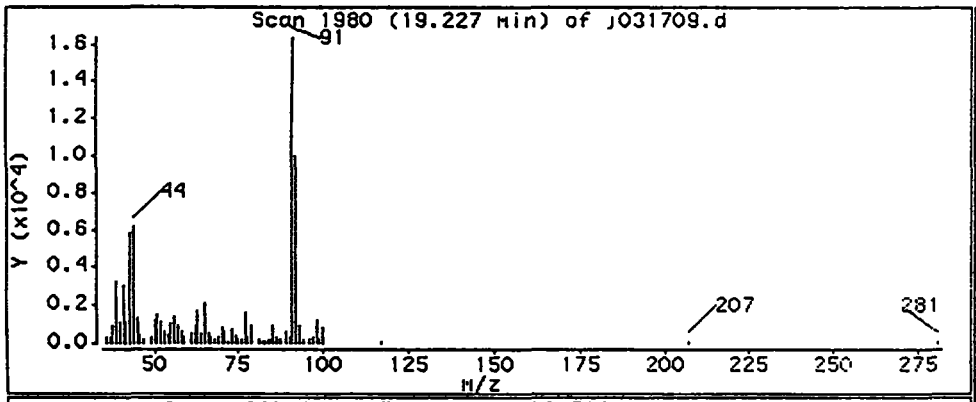
Sample Info: 500mL Can#14873 031197U1

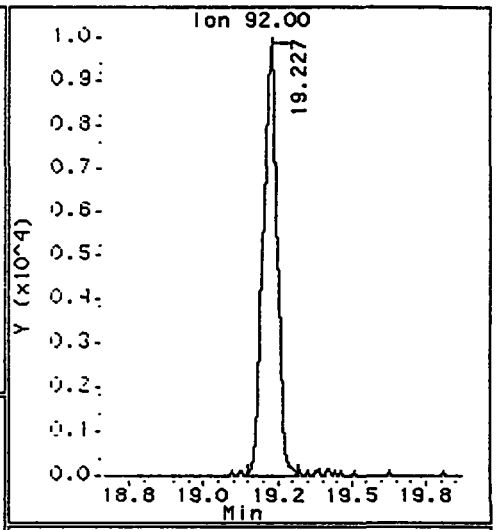
Operator: MH

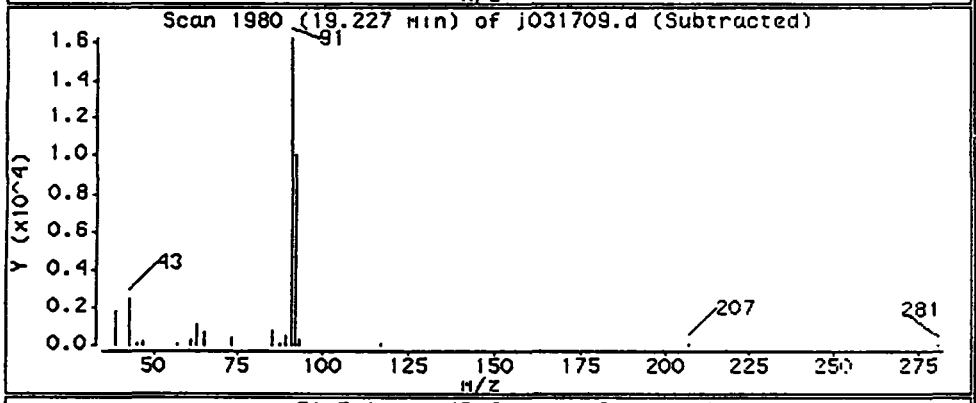
Column phase: RTx-624

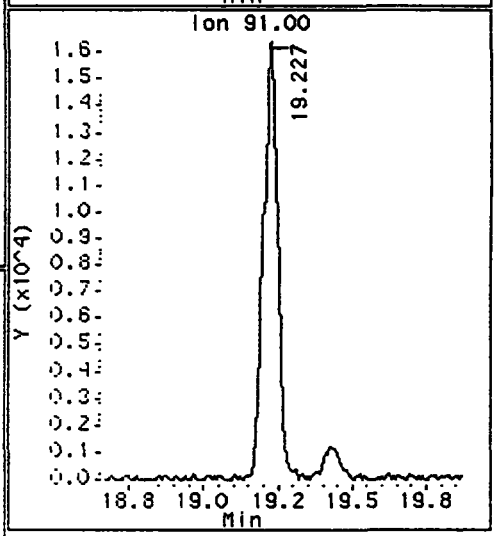
Column diameter: 0.58

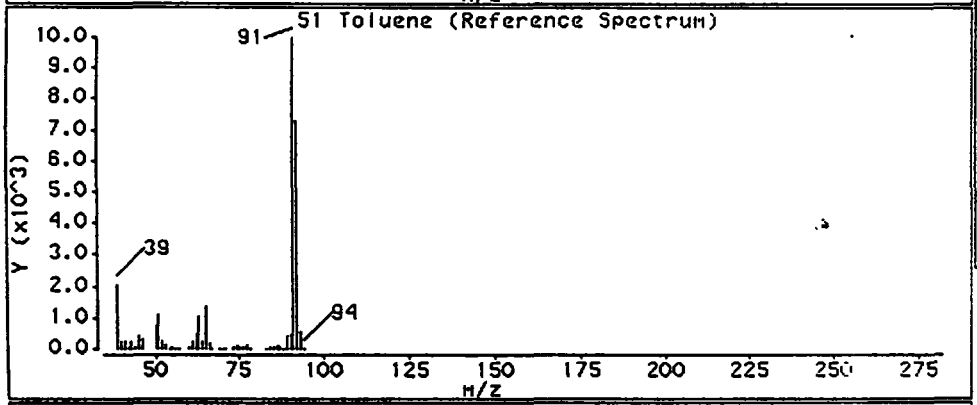
51 Toluene

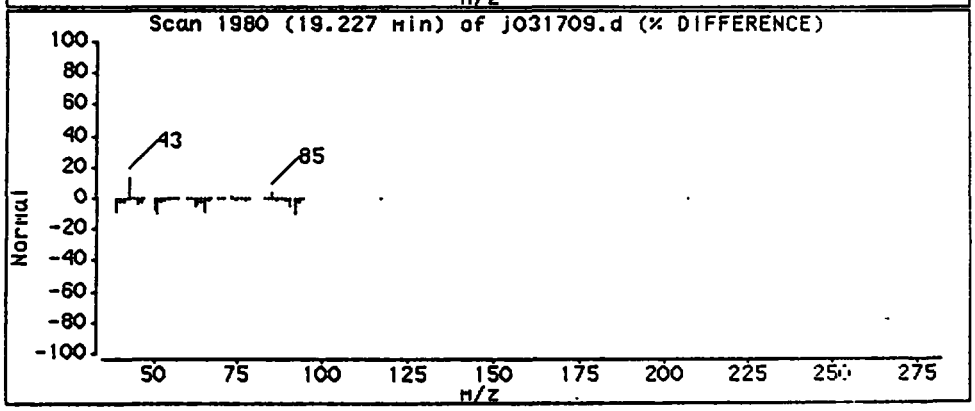












Data File: /chem/msdj.i/j-17mar.b/j031709.d

Date : 17-MAR-1997 14:29

Client ID: 031197U1

Instrument: msdj.i

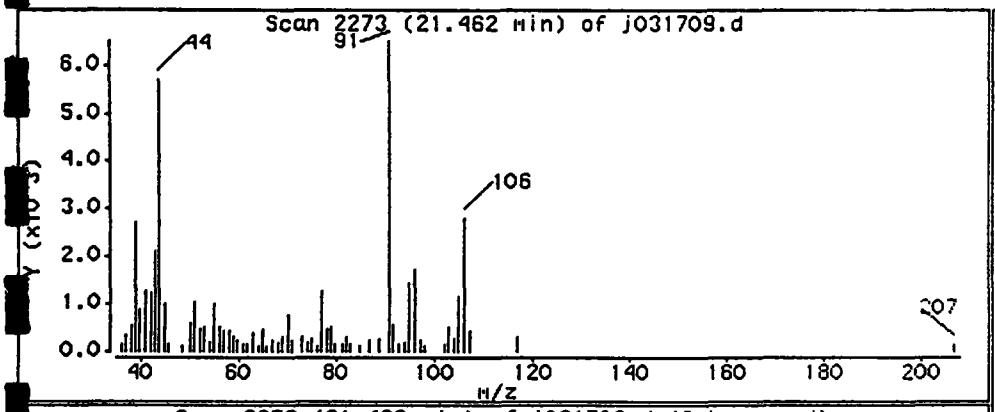
Sample Info: 500mL Can#14873 031197U1

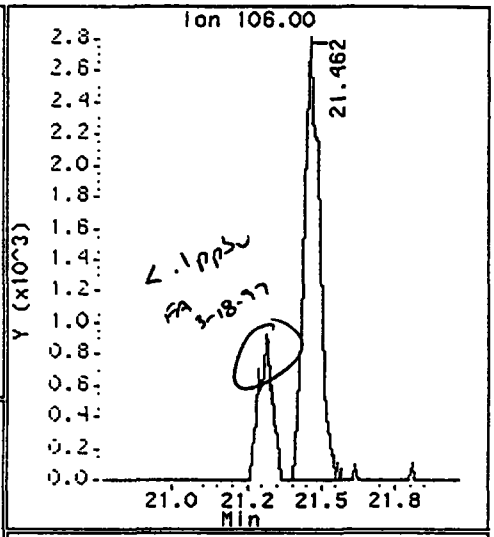
Operator: MH

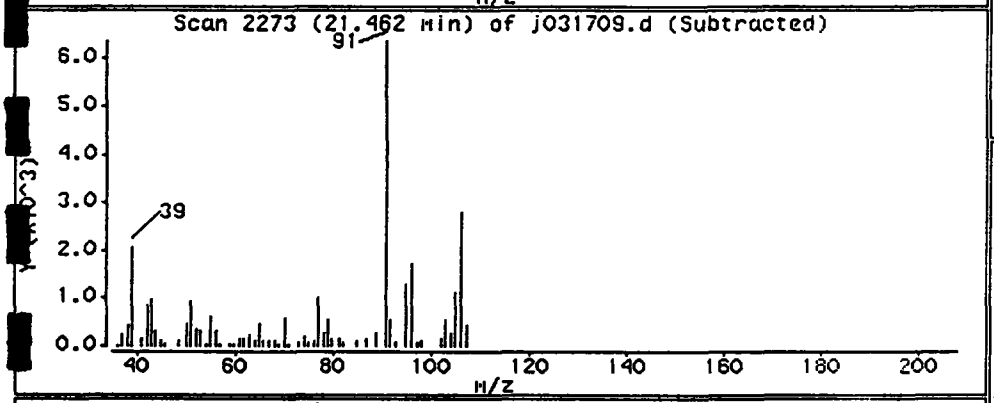
Column phase: RTx-624

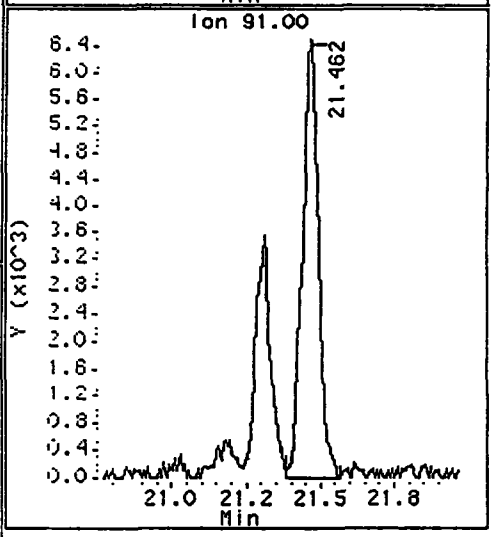
Column diameter: 0.58

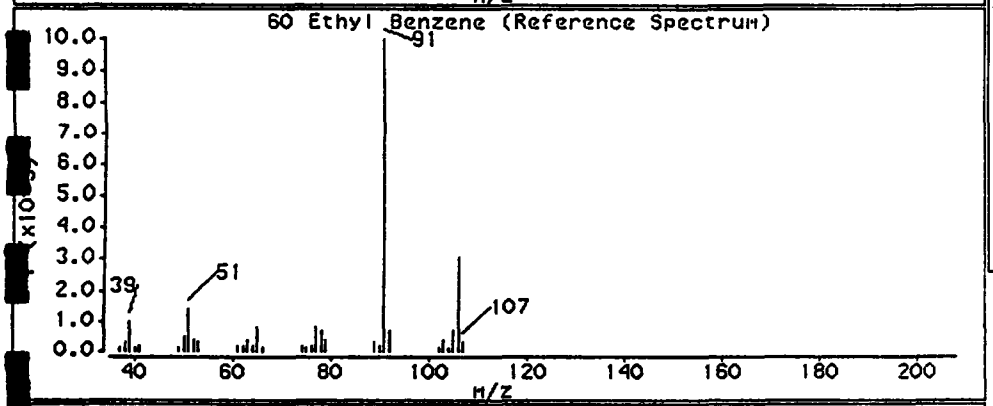
60 Ethyl Benzene

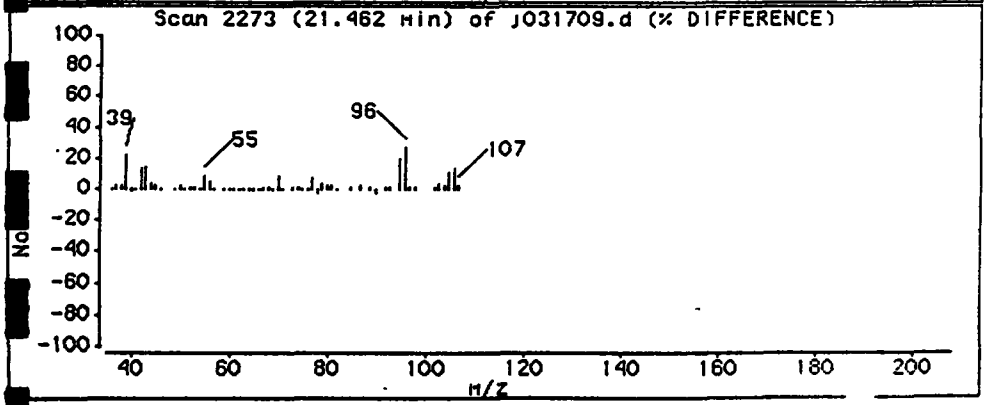












Data File: /chem/msdj.i/j-17mar.b/j031709.d

Date : 17-MAR-1997 14:29

Client ID: 031197U1

Instrument: msdj.i

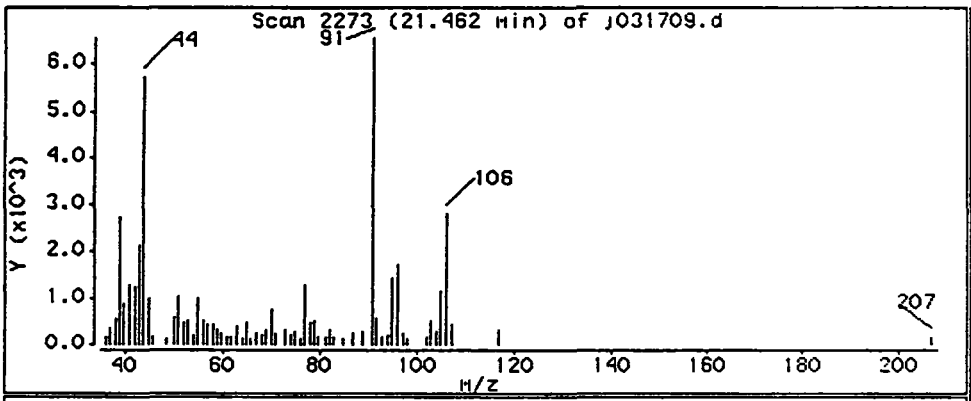
Sample Info: 500mL Can#14873 031197U1

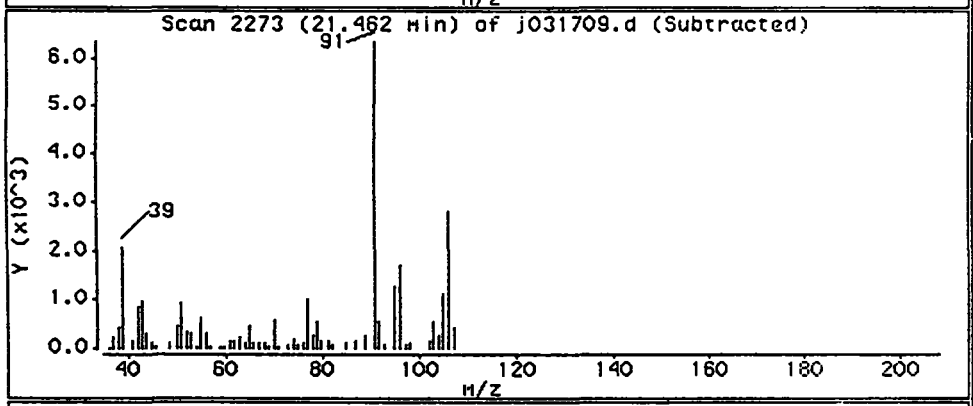
Operator: MH

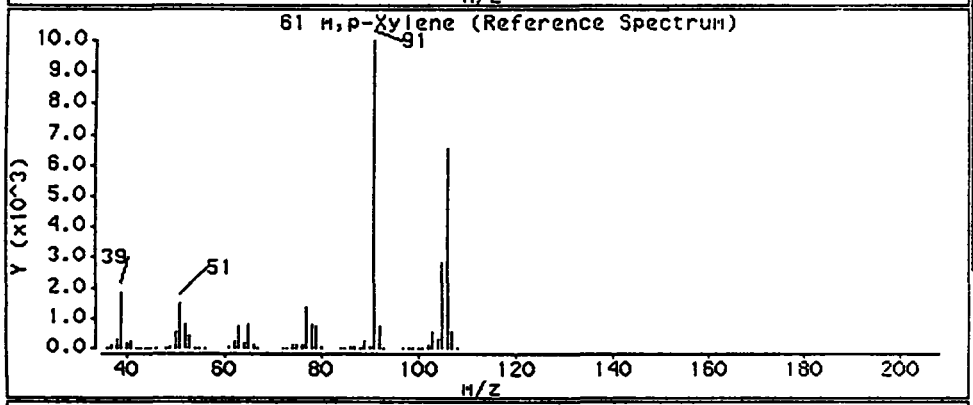
Column phase: RTx-624

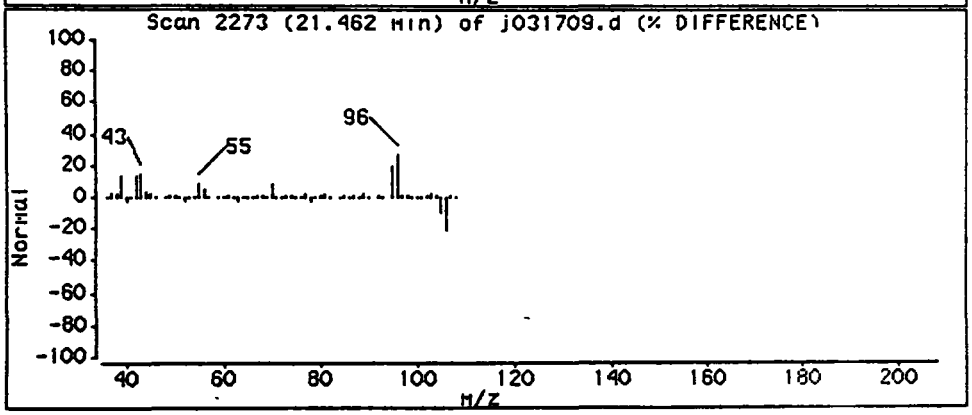
Column diameter: 0.58

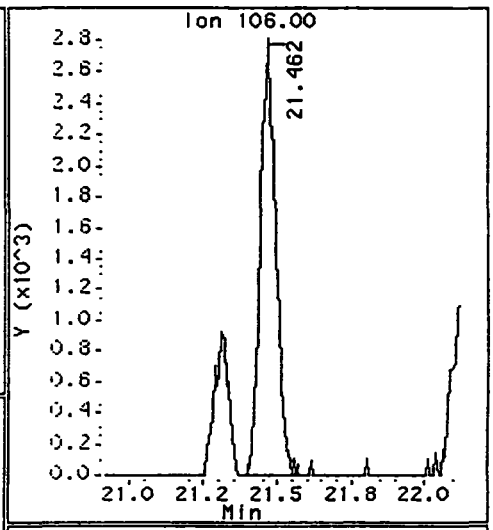
61 m,p-Xylene

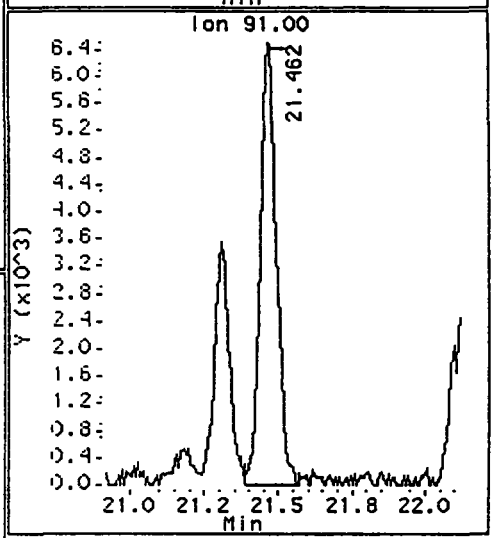












Data File: /chem/msdj.i/j-17mar.b/j031709.d

Date : 17-MAR-1997 14:29

Client ID: 031197U1

Instrument: msdj.i

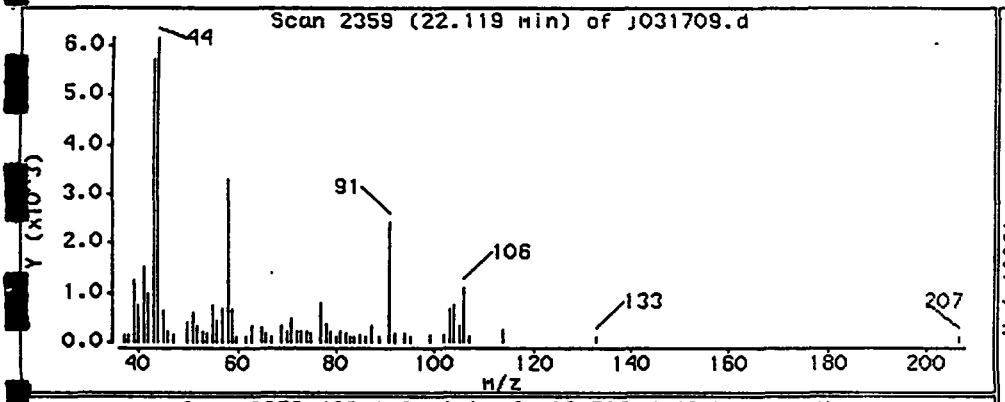
Sample Info: 500mL Can#14873 031197U1

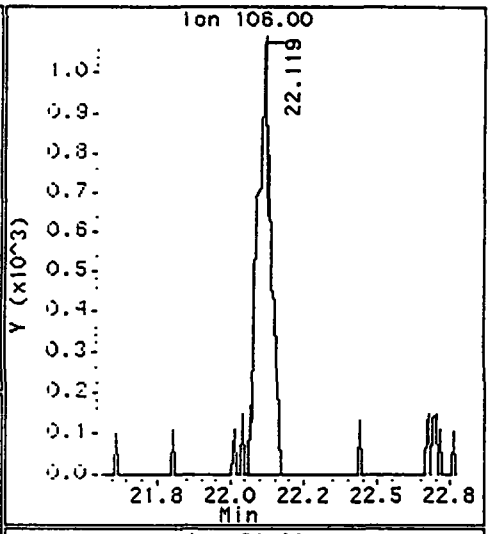
Operator: MH

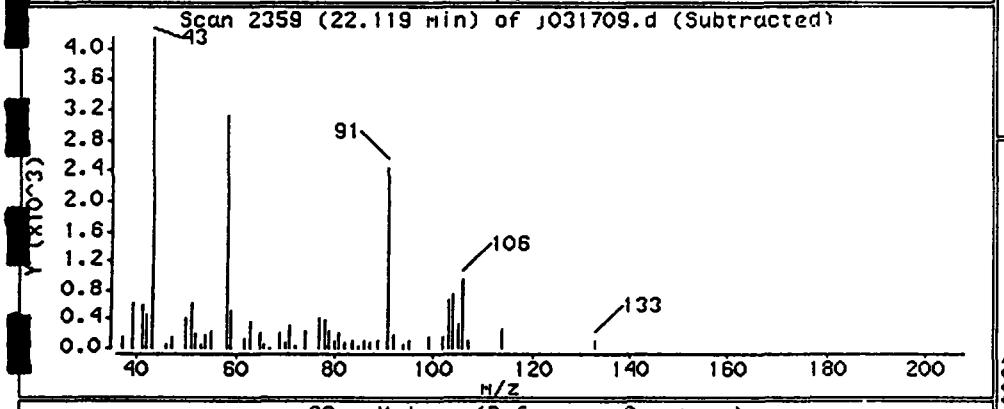
Column phase: RTx-624

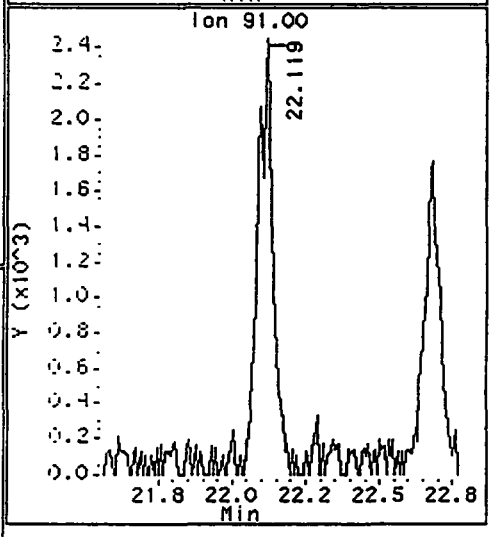
Column diameter: 0.58

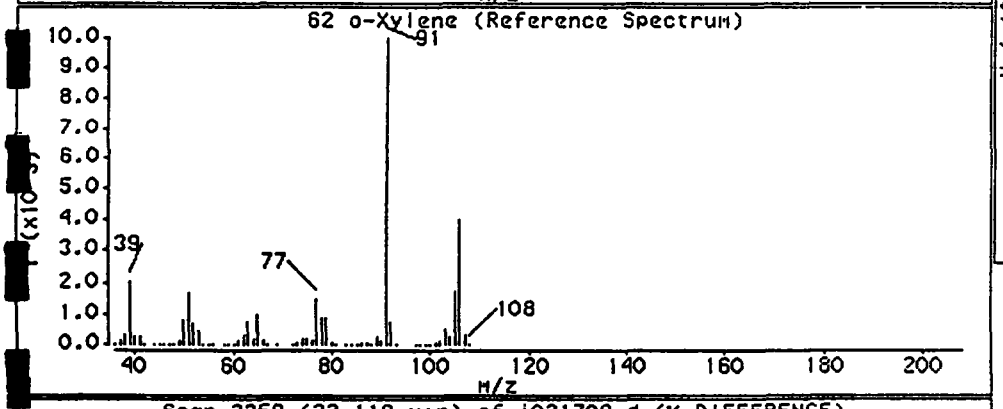
62 o-Xylene

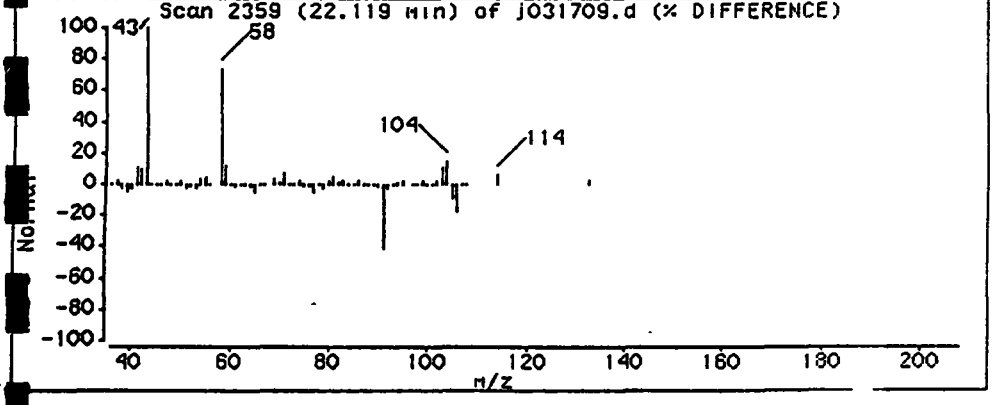






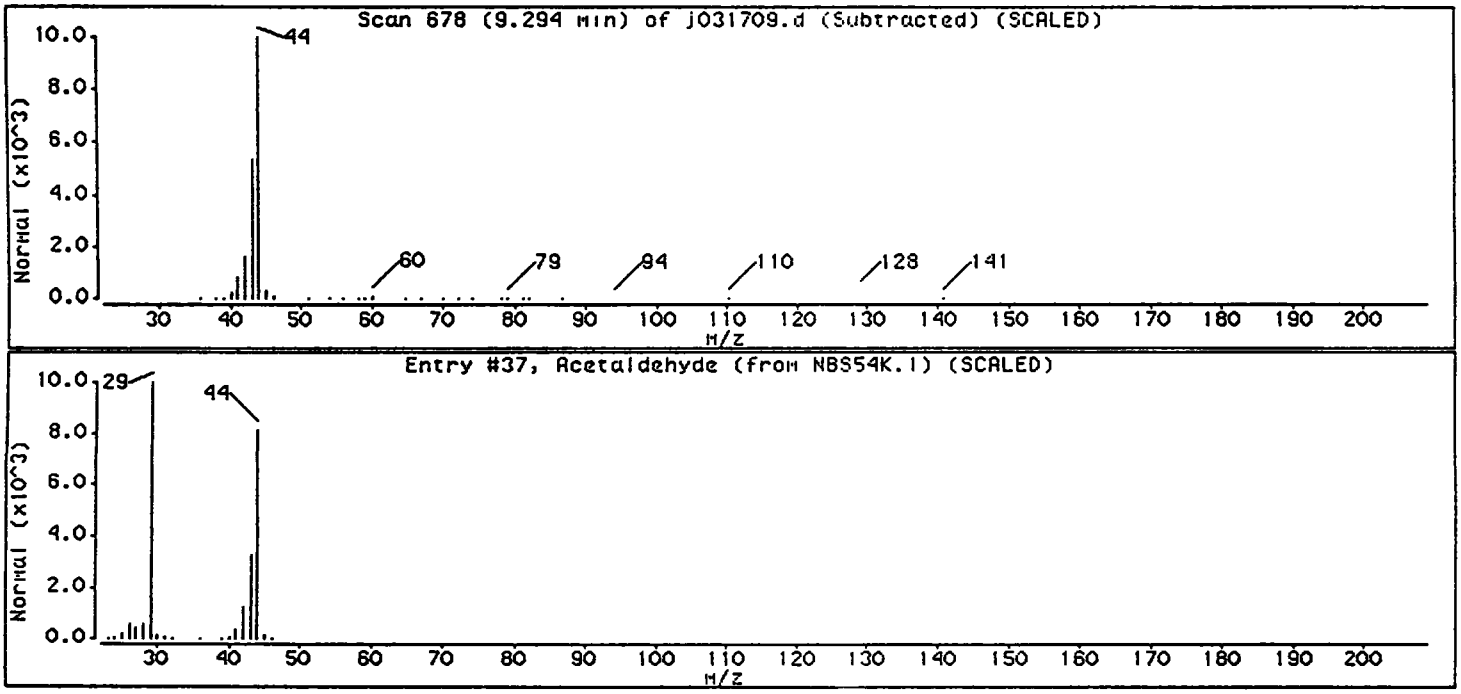




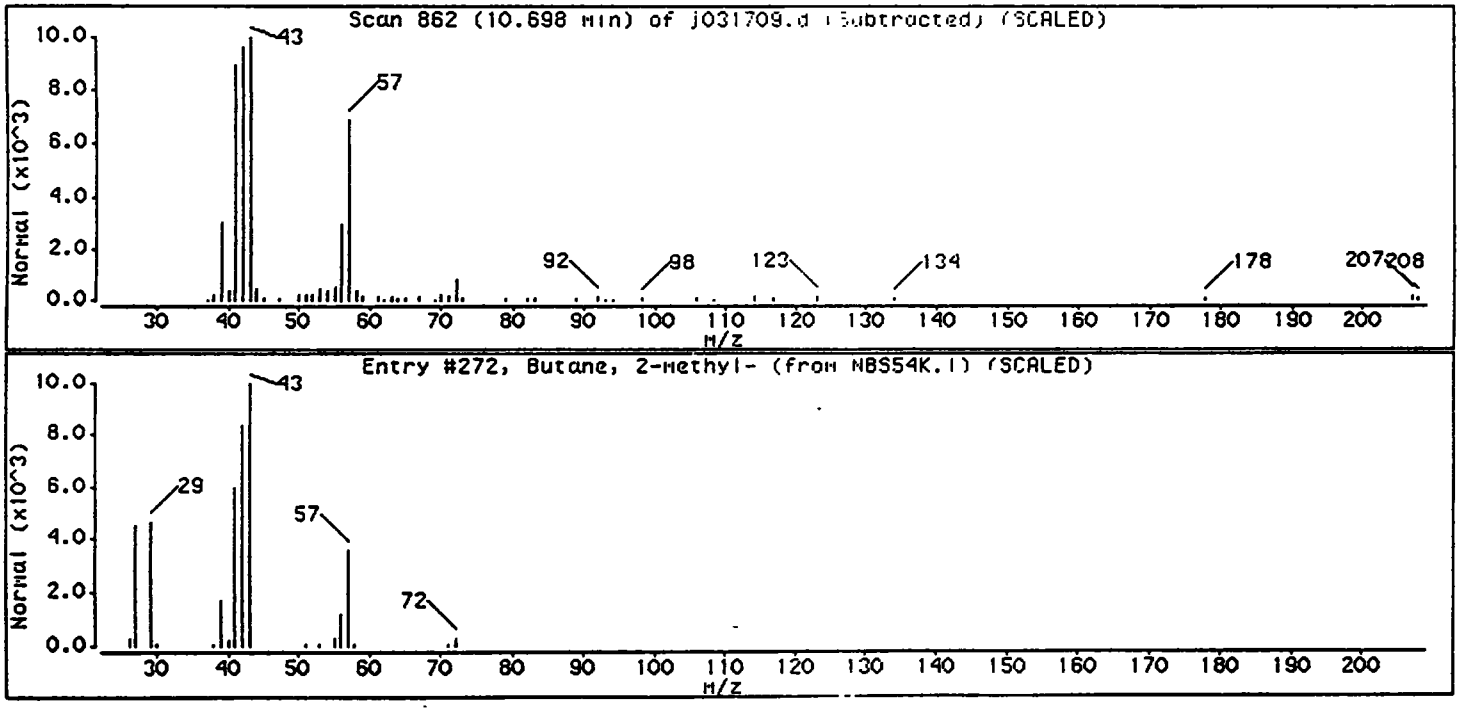


Data File: /chem/msdj.i/j-17mar.b/j031709.d
Date : 17-MAR-1997 14:29
Instrument: msdj.i
Client ID: 031197U1
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetaldehyde	75-07-0	NBS54K.I	37	86

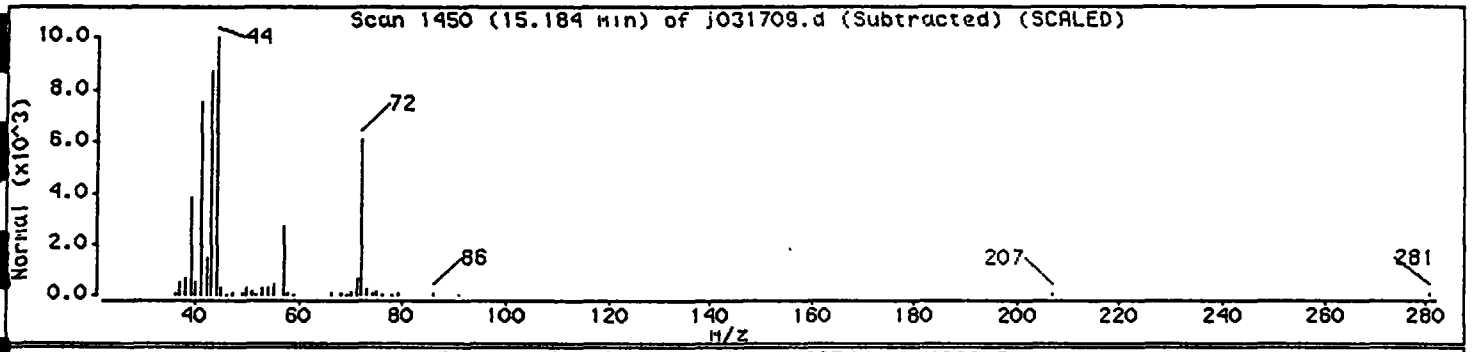


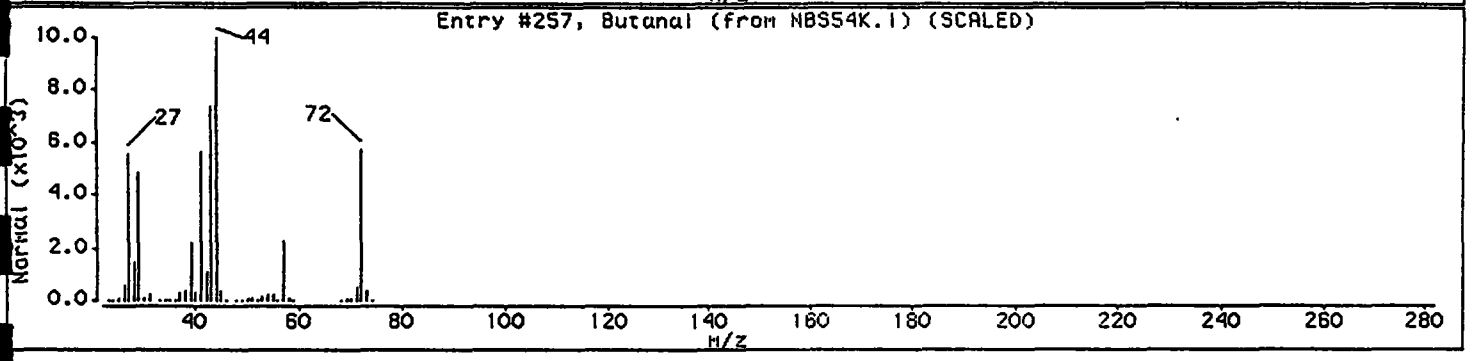
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane, 2-methyl-	78-78-4	NBS54K.I	272	64



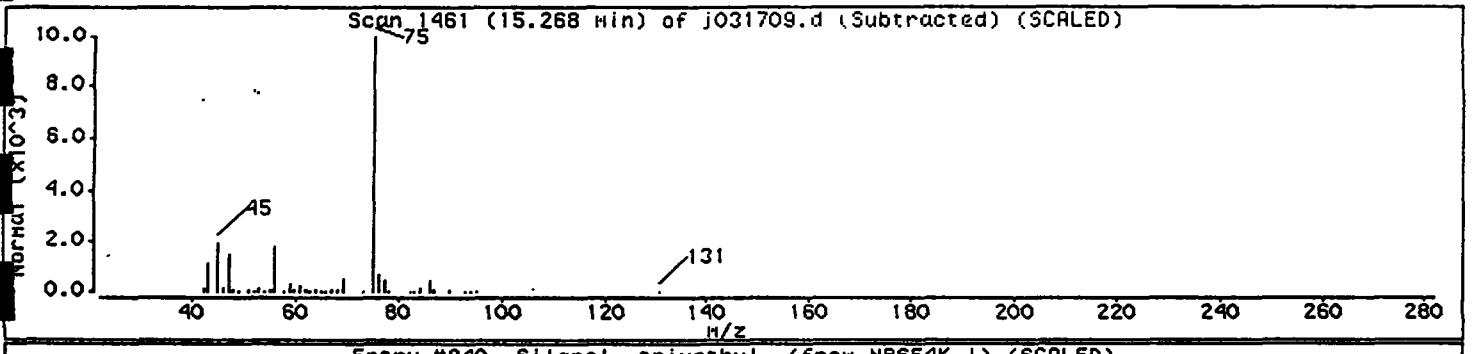
Data File: /chem/msdj.i/j-17mar.b/j031709.d
Date : 17-MAR-1997 14:29
Instrument: msdj.i
Client ID: 031197U1
Column phase: RTx-624 Column diameter: 0.58

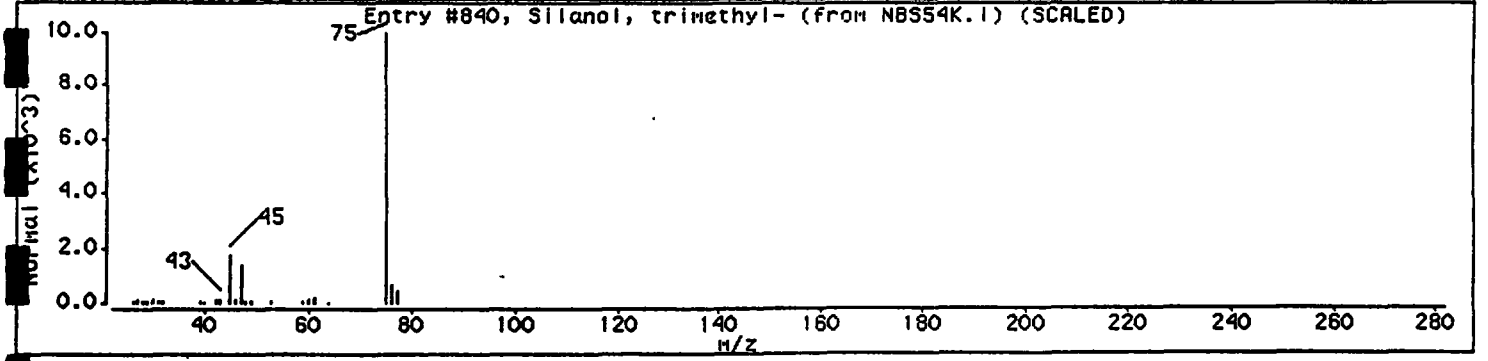
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanal	123-72-8	NBS54K.I	257	64





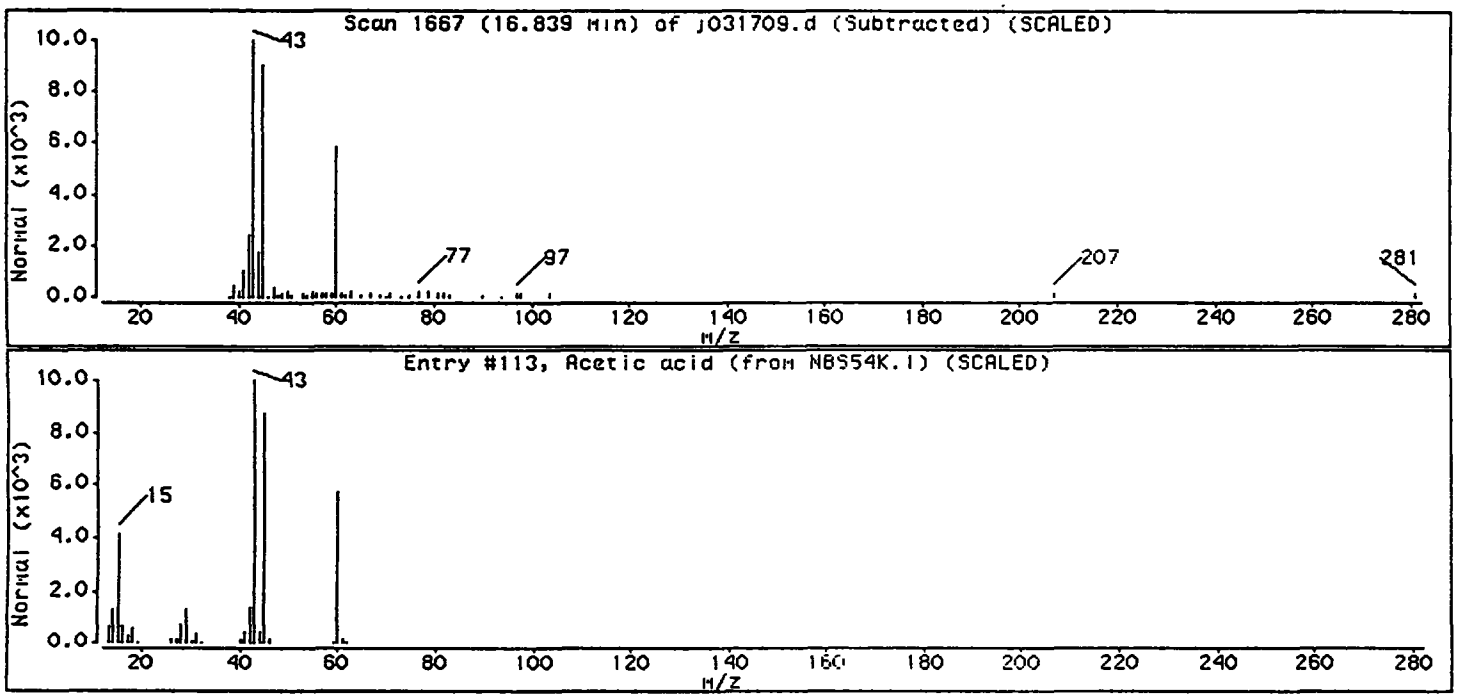
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Silanol, trimethyl-	1066-40-6	NBS54K.I	840	50



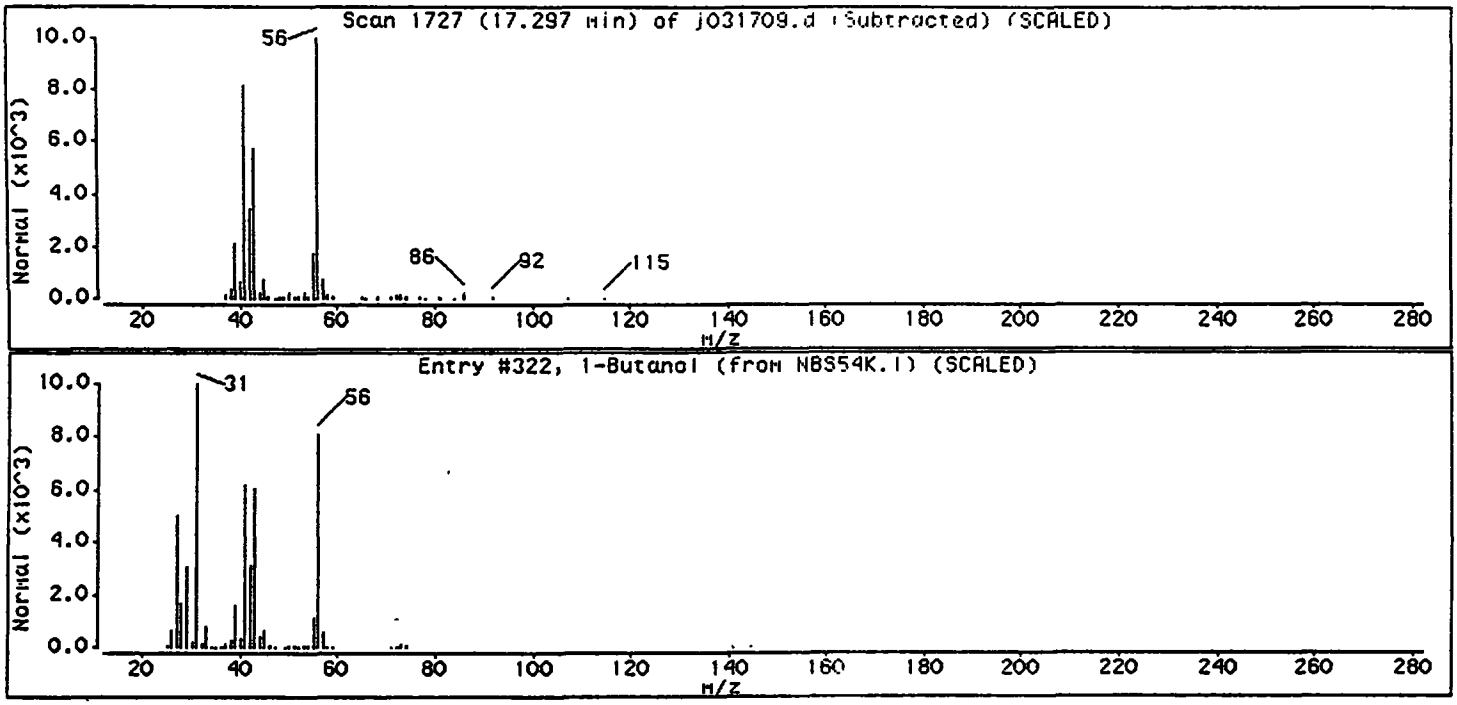


Data File: /chem/msdj.i/j-17mar.b/j031709.d
Date : 17-MAR-1997 14:29
Instrument: msdj.i
Client ID: 031197U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetic acid	64-19-7	NBS54K.I	113	50



Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1-Butanol	71-36-3	NBS54K.I	322	86



Data File: /chem/msdj.i/j-17mar.b/J031709.d
Date : 17-MAR-1997 14:29
Instrument: msdj.i
Client ID: 031197U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
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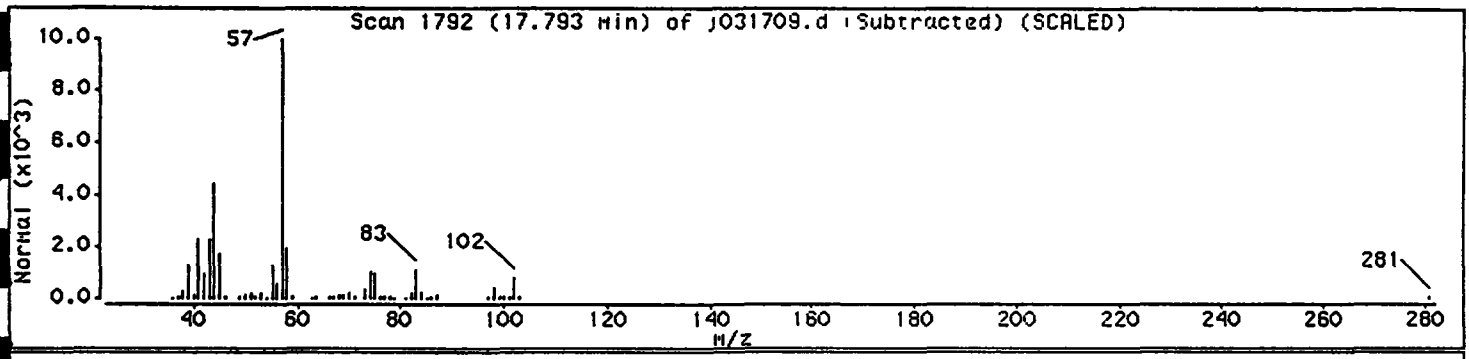
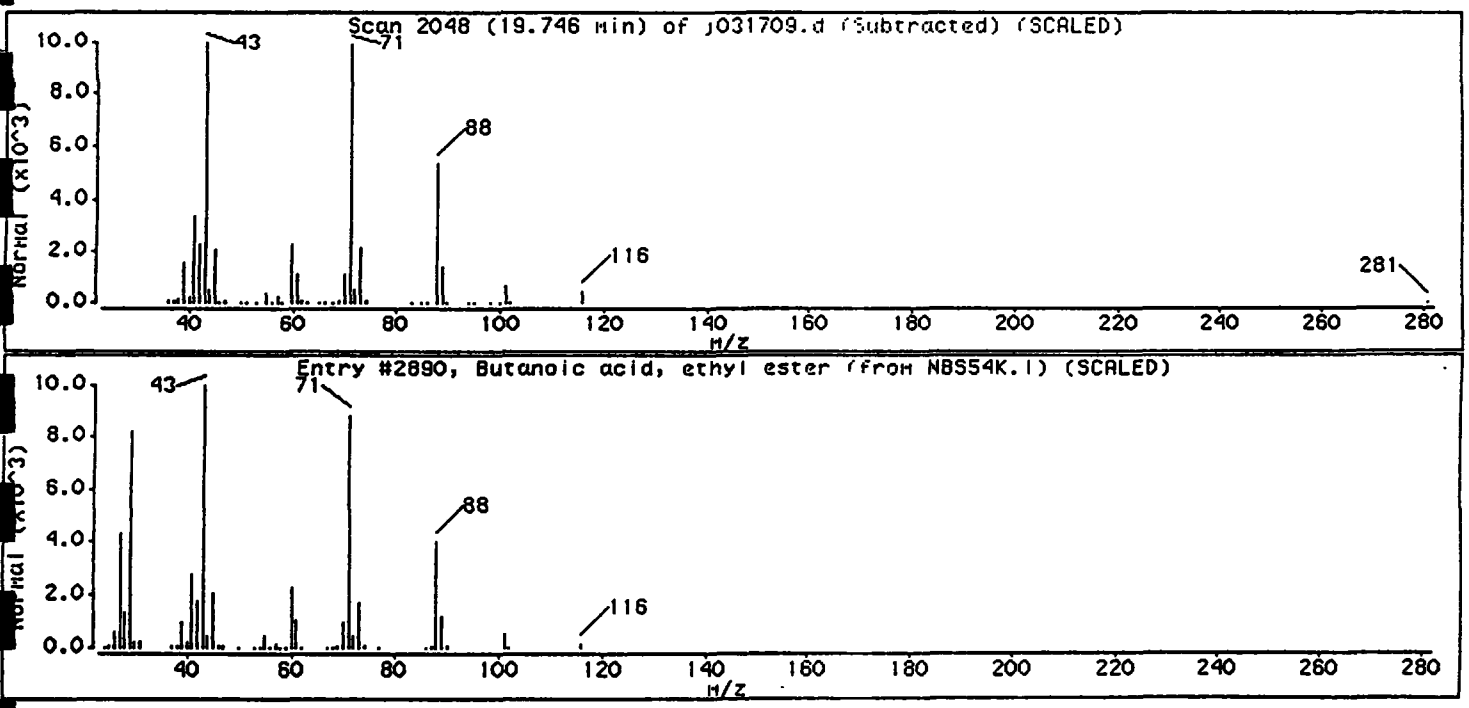
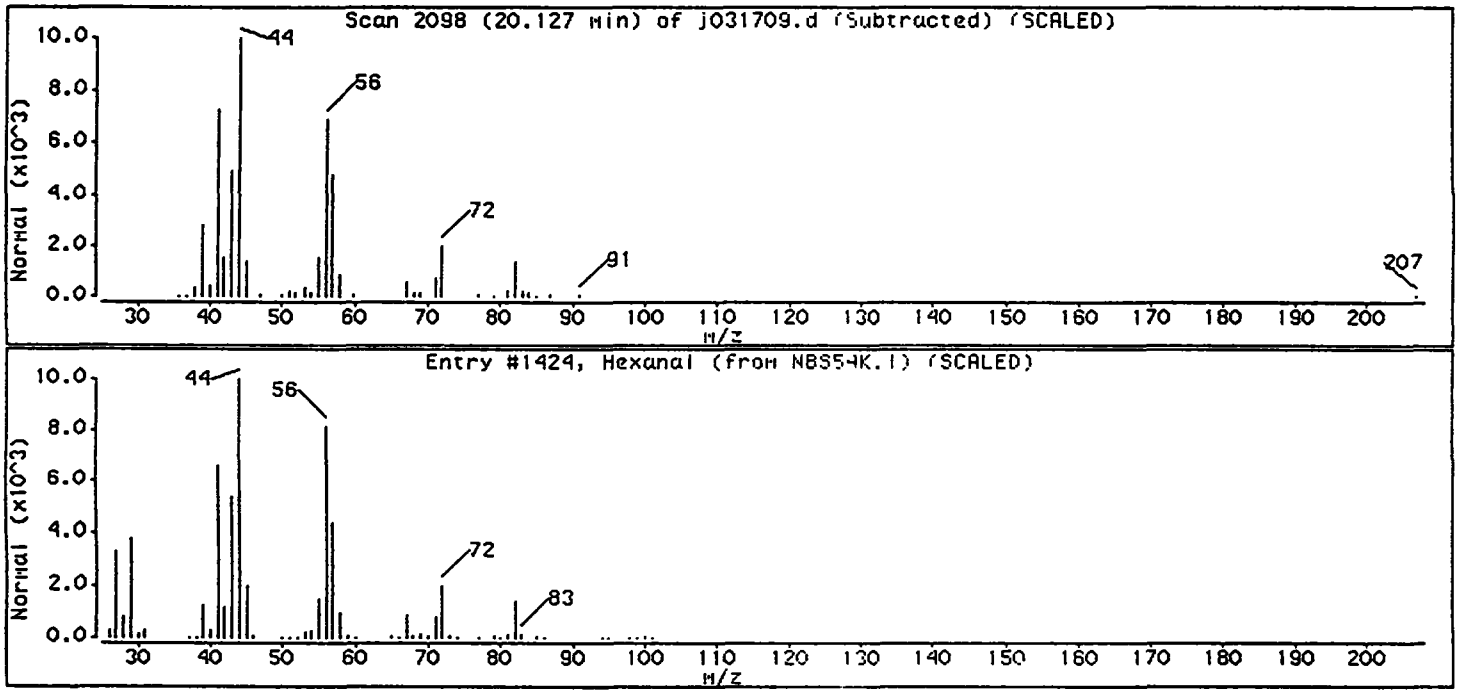


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanoic acid, ethyl ester	105-54-4	NBS54K.I	2890	90

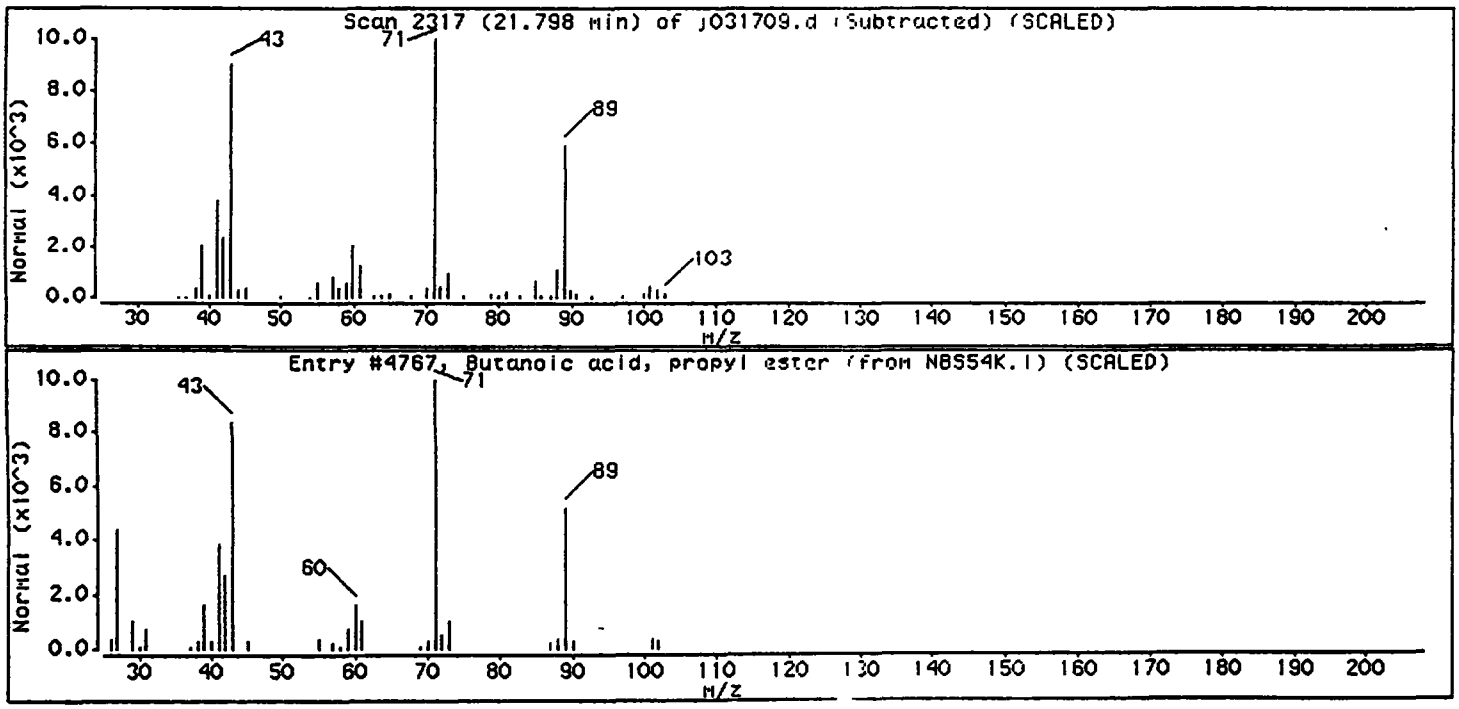


Data File: /chem/msdj.i/j-17mar.b/j031709.d
Date : 17-MAR-1997 14:29
Instrument: msdj.i
Client ID: 031197U1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexanal	66-25-1	NBS54K.I	1424	83

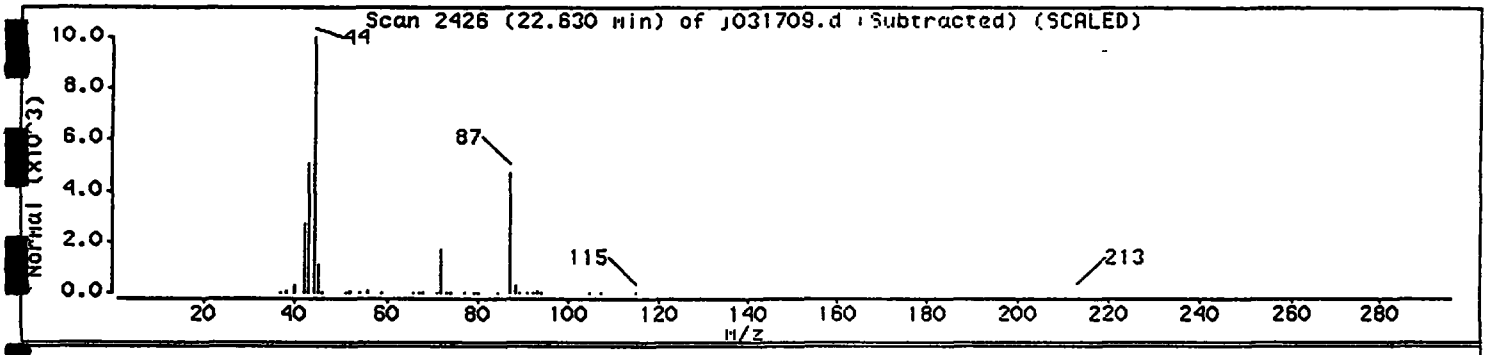


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanoic acid, propyl ester	105-66-8	NBS54K.I	4767	86

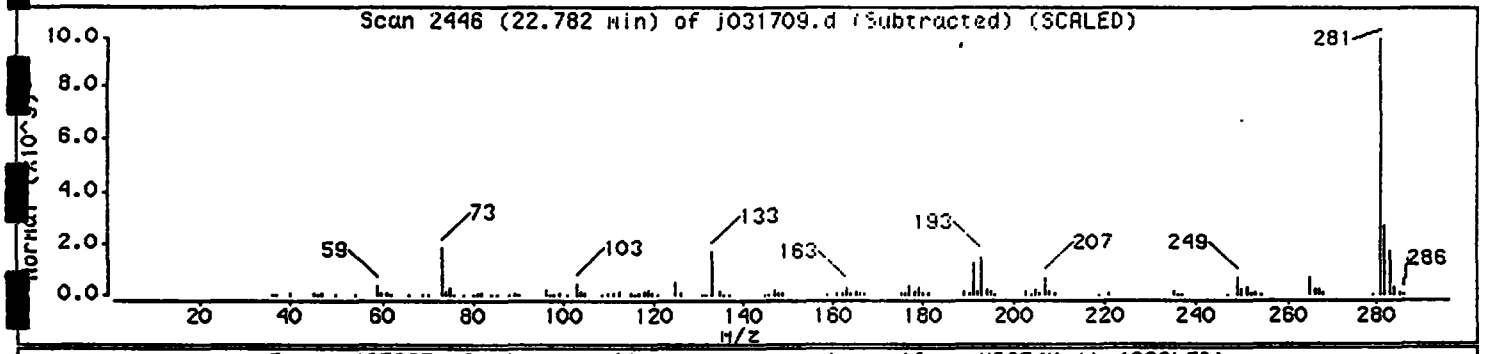


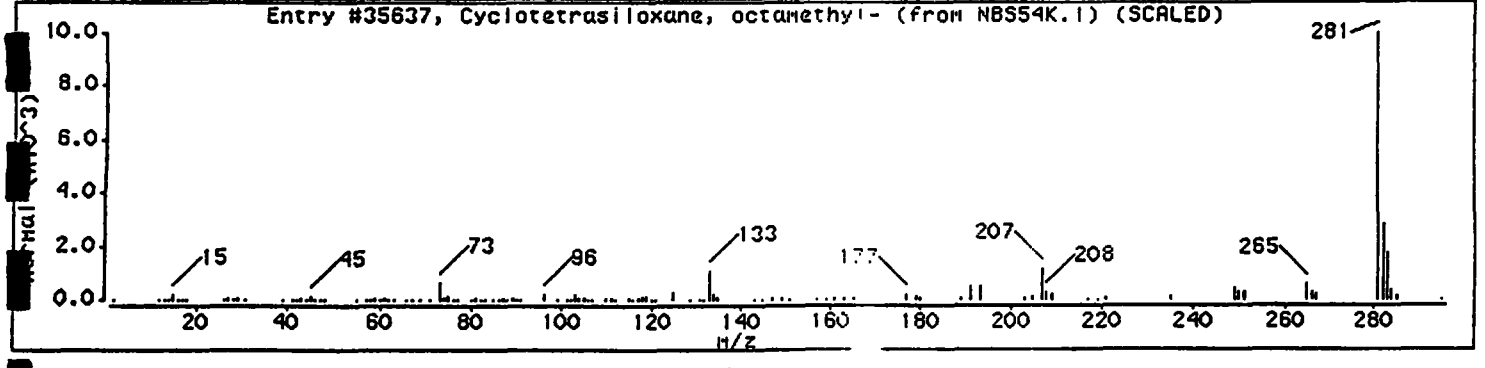
Data File: /chem/msdj.i/j-17mar.b/j031709.d
Date : 17-MAR-1997 14:29
Instrument: msdj.i
Client ID: 031197U1
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



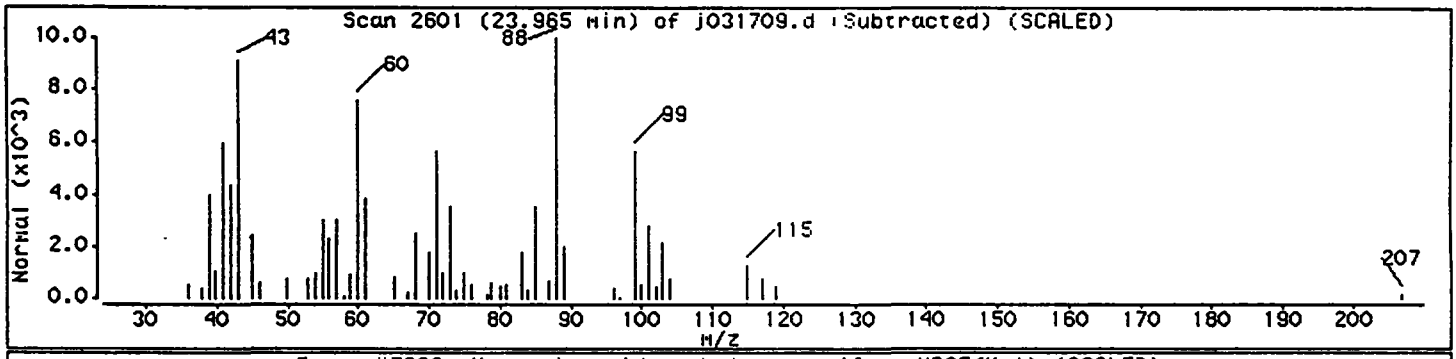
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS54K.I	35637	64

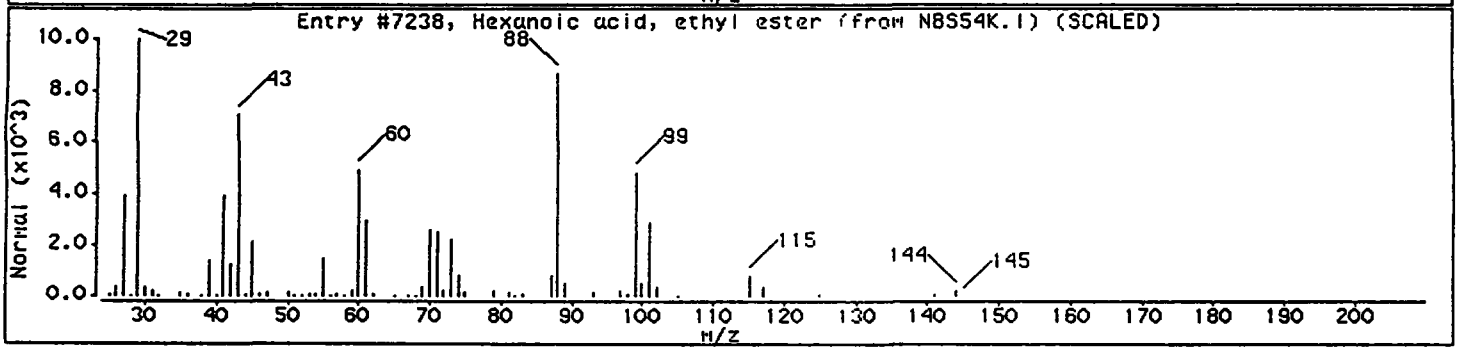




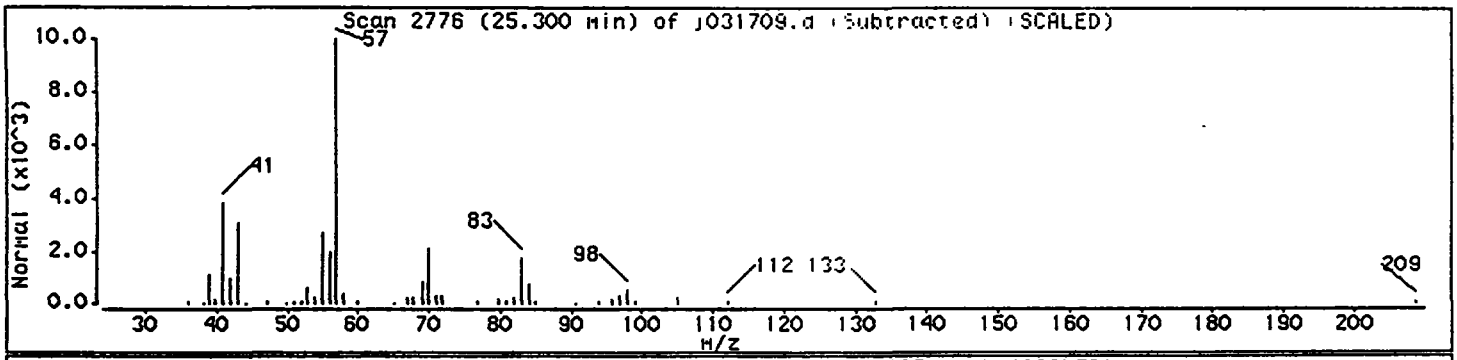
Data File: /chem/msdj.i/j-17mar.b/j031709.d
Date : 17-MAR-1997 14:29
Instrument: msdj.i
Client ID: 031197U1
Column phase: RTx-624
Column diameter: 0.58

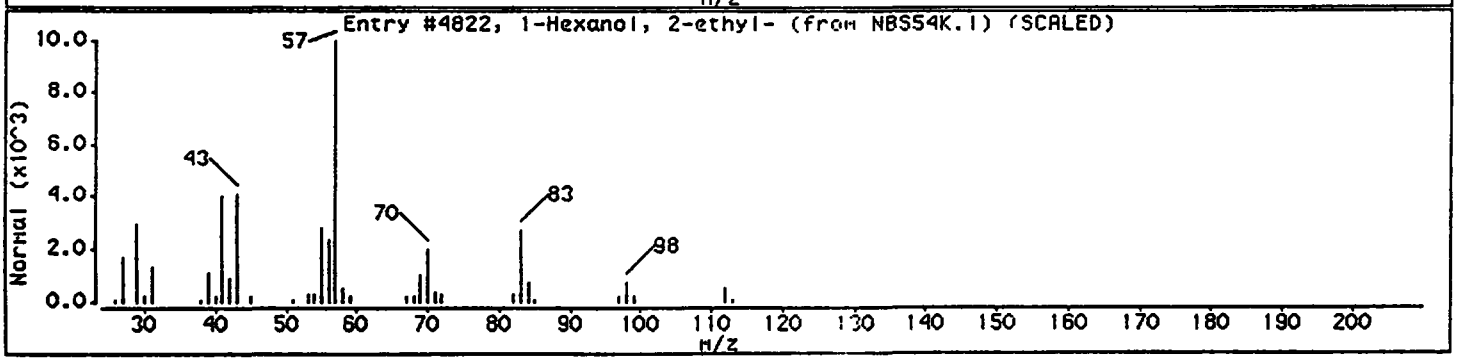
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Hexanoic acid, ethyl ester	123-66-0	NBS54K.I	7238	59





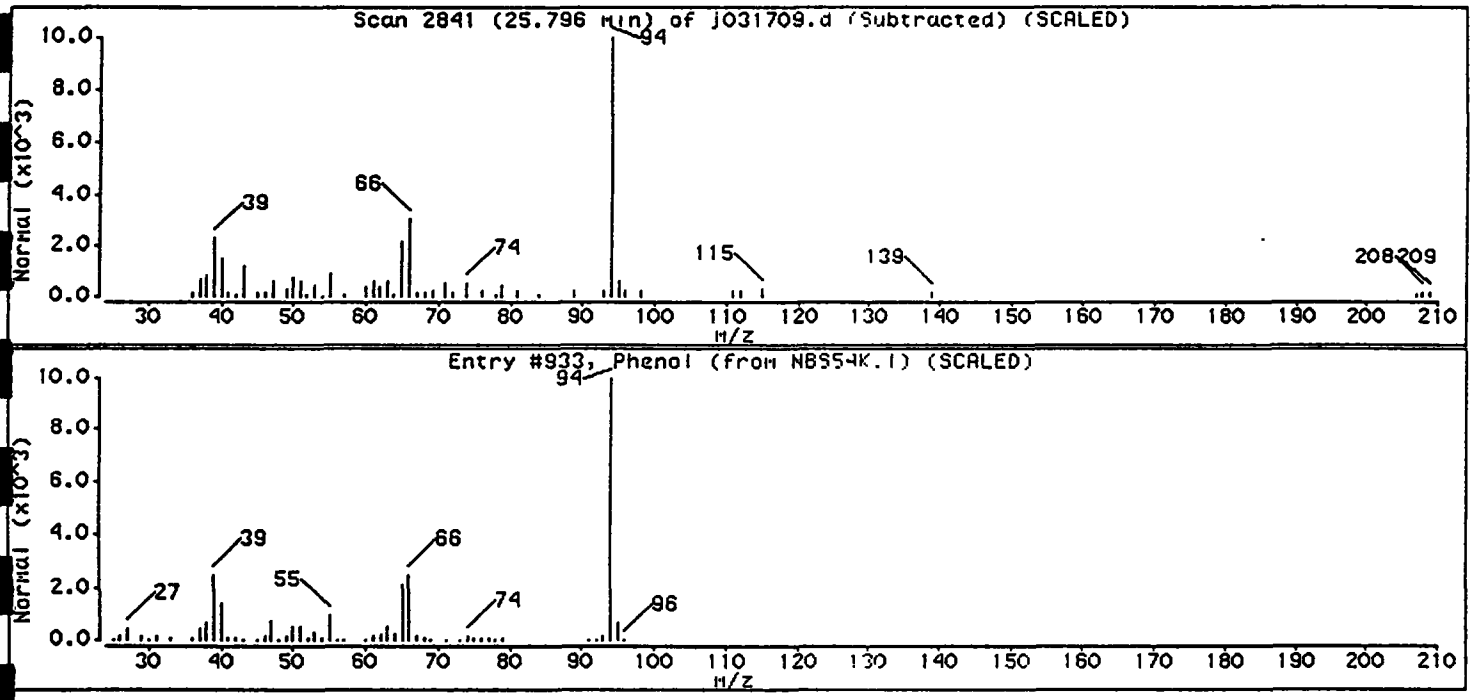
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1-Hexanol, 2-ethyl-	104-76-7	NBS54K.I	4822	50





Data File: /chem/msdj.i/j-17mar.b/j031709.d
Date : 17-MAR-1997 14:29
Instrument: msdj.i
Client ID: 031197U1
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Phenol	108-95-2	NBS54K.I	933	91



AIR TOXICS LTD.

SAMPLE NAME: 031197D1

ID#: 9703097-03A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j031710	Date of Collection:	3/11/97
Dil. Factor:	1.91	Date of Analysis:	3/17/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.96	Not Detected
cis-1,2-Dichloroethene	0.19	Not Detected
1,1,1-Trichloroethane	0.19	Not Detected
Benzene	0.19	5.0
1,2-Dichloroethane	0.19	Not Detected
Trichloroethene	0.19	Not Detected
1,2-Dichloropropane	0.19	Not Detected
Toluene	0.19	1.4
Tetrachloroethene	0.19	Not Detected
Chlorobenzene	0.19	Not Detected
Ethyl Benzene	0.19	0.22
m,p-Xylene	0.19	0.88
o-Xylene	0.19	0.55
Styrene	0.19	0.20
Acetone	0.96	5.0
Carbon Disulfide	0.96	Not Detected
trans-1,2-Dichloroethene	0.96	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.96	4.2

Container Type: 6 Liter Summa Canister

Surrogates	% Recovery	Method Limits
Octafluorotoluene	108	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	108	70-130

Data File: /chem/msdj.i/j-17mar.b/j031710.d
Report Date: 17-Mar-1997 15:39

MH 3/17/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-17mar.b/j031710.d
Lab Smp Id: 9703097-03A Client Smp ID: 031197D1
Inj Date : 17-MAR-1997 15:12
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#11872 031197D1
Misc Info : 9.0"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.910
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

REVIEWED BY
MAR 1 8 1997
FRANCISCO AYALA

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
	30 Bromochloromethane					CAS #: 74-97-5			
	15.785	15.820 (1.000)	130	177264	5.0			100.00	9315
	15.785	15.820 (0.000)	128	42600			29.23- 129.23	24.03	
	15.785	15.820 (0.000)	49	100031			130.39- 230.39	56.43	
$	35 Octafluorotoluene					CAS #: 434-64-0			
	16.296	16.346 (1.032)	217	445974	5.4	5.4		100.00	8008
	16.296	16.346 (0.000)	186	93392			13.54- 113.54	20.94	
*	40 1,4-Difluorobenzene					CAS #: 540-36-3			
	17.113	17.155 (1.000)	114	779823	5.0			100.00	9261
	17.113	17.155 (0.000)	88	46336			0.00- 69.19	5.94	
$	49 Toluene-d8					CAS #: 2037-26-5			
	19.119	19.169 (1.117)	98	722915	5.1	5.1		100.00	9957
	19.119	19.169 (0.000)	70	27181			0.00- 63.99	3.76	
	19.119	19.169 (0.000)	100	142659			15.53- 115.53	19.73	
	58 Chlorobenzene-d5					CAS #: 3114-55-4			
	21.171	21.229 (1.000)	117	666468	5.0			100.00	9998
	21.171	21.229 (0.000)	82	113864			14.83- 114.83	17.08	

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 65 Bromofluorobenzene					CAS #: 460-00-4			
22.995	23.060 (1.086)	95	562662	5.4	5.4		100.00	8047
22.995	23.060 (0.000)	174	79672			7.76- 107.76	14.16	
22.995	23.060 (0.000)	176	77840			7.57- 107.57	13.83	
16 Acetone					CAS #: 67-64-1			
12.611	12.578 (0.799)	43	181983	2.6	5.0		100.00	
12.611	12.578 (0.799)	58	48239			0.00- 79.57	26.51	
28 2-Butanone					CAS #: 78-93-3			
15.427	15.461 (0.977)	72	42942	2.2	4.2		100.00	7822
15.427	15.461 (0.000)	43	65038			451.27- 551.27	151.46	
15.427	15.461 (0.000)	57	3492			0.00- 84.11	8.13	
37 Benzene					CAS #: 71-43-2			
16.663	16.705 (0.974)	78	394060	2.6	5.0		100.00	9392
16.663	16.705 (0.000)	77	29285			0.00- 74.19	7.43	
51 Toluene					CAS #: 108-88-3			
19.218	19.268 (1.123)	92	63681	0.71	1.4		100.00	8185
19.218	19.268 (0.000)	91	31842			118.26- 218.26	50.00	
60 Ethyl Benzene					CAS #: 100-41-4			
21.301	21.366 (1.006)	106	8036	0.11	0.22		100.00	
21.309	21.366 (1.006)	91	27824			296.25- 396.25	346.24	
61 m,p-Xylene					CAS #: 108-38-3			
21.461	21.519 (1.014)	106	31911	0.46	0.88		100.00	
21.461	21.519 (1.014)	91	72965			164.96- 264.96	228.65	
62 o-Xylene					CAS #: 95-47-6			
22.110	22.168 (1.044)	106	12350	0.29	0.55		100.00	8621
22.110	22.168 (0.000)	91	6770			176.02- 276.02	54.82	
63 Styrene					CAS #: 100-42-5			
22.118	22.183 (1.045)	104	9630	0.11	0.20		100.00	7584
22.118	22.183 (0.000)	78	1693			1.87- 101.87	17.58	

Audit History For: /chem/msdj.i/j-17mar.b/j031710.d

MH
3/17/97

Change Date: 17-Mar-97 15:31
Change Made by: Automation

Parameter: ChemLan Data Transfer
Old Value:
New Value:
Reason For Change: MS Data from Instrument: msdj.i

Change Date: 17-Mar-97 15:32
Change Made by: Automation

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Complete Target Compound Processing

Change Date: 17-Mar-97 15:34
Change Made by: mhe

Parameter: date
Old Value: 17-MAR-97 15:12
New Value: 17-MAR-1997 15:12
Reason For Change: N/A

Change Date: 17-Mar-97 15:34
Change Made by: mhe

Parameter: Misc Information
Old Value:
New Value: 9.0"Hg-5.0psi Parsons
Reason For Change: N/A

Change Date: 17-Mar-97 15:34
Change Made by: mhe

Parameter: Compound Sublist
Old Value: AT.sub
New Value: Parsons.sub
Reason For Change: N/A

Change Date: 17-Mar-97 15:34
Change Made by: mhe

Parameter: Sample Info
Old Value: 9703097-03A 500mL Can#11872 Parsons 9"-5psi 031197D1
New Value: 500mL Can#11872 031197D1
Reason For Change: N/A

Change Date: 17-Mar-97 15:34
Change Made by: mhe

Parameter: Lab ID
Old Value:
New Value: 9703097-03A
Reason For Change: N/A

Change Date: 17-Mar-97 15:34
Change Made by: mhe

Parameter: Client ID
Old Value: VSTD150
New Value: 031197D1
Reason For Change: N/A

Change Date: 17-Mar-97 15:34
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

Change Date: 17-Mar-97 15:35
Change Made by: mhe

Parameter: Best Hit for Carbon Disulfide changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 15:35
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 15:35
Change Made by: mhe

Parameter: Best Hit for Methylene Chloride changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 15:35
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 15:35
Change Made by: mhe

Parameter: Best Hit for 1,1,1-Trichlorethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 15:35
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:

Reason For Change: N/A

Change Date: 17-Mar-97 15:35
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 15:35
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 15:35
Change Made by: mhe

Parameter: Best Hit for Trichloroethene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 15:35
Change Made by: mhe

Parameter: Manual reintegration of Trichloroethene (Signal 1)
Old Value: No previous peak at 17.502
New Value: New Area/Time: 2362 / 17.50
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Best Hit for Trichloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Manual reintegration of Tetrachloroethene (Signal 1)
Old Value: No previous peak at 19.989
New Value: New Area/Time: 1313 / 19.99
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Best Hit for Tetrachloroethene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Manual reintegration of Chlorobenzene (Signal 1)
Old Value: No previous peak at 21.210
New Value: New Area/Time: 2839 / 21.21
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Best Hit for Chlorobenzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Best Match for Unknown compound at 22.629 min. changed.
Old Value: Old match: Acetamide, N,N-dimethyl-
New Value: New match: Unknown Compound Deleted

Reason For Change: N/A

Change Date: 17-Mar-97 15:36
Change Made by: mhe

Parameter: Best Match for Unknown compound at 5.013 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 17-Mar-97 15:39
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

MM 3/17/97

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-17mar.b/j031710.d
Lab Smp Id: 9703097-03A Client Smp ID: 031197D1
Inj Date : 17-MAR-1997 15:12
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#11872 031197D1
Misc Info : 9.0"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.910
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
15.785	15.820 (1.000)	130	177264	5.0			100.00	9315
15.785	15.820 (0.000)	128	42600			29.23- 129.23	24.03	
15.785	15.820 (0.000)	49	100031			130.39- 230.39	56.43	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.296	16.346 (1.032)	217	445974	5.4	5.4		100.00	8008
16.296	16.346 (0.000)	186	93392			13.54- 113.54	20.94	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.113	17.155 (1.000)	114	779823	5.0			100.00	9261
17.113	17.155 (0.000)	88	46336			0.00- 69.19	5.94	
17.578	17.155 (1.000)	114	506	5.0			100.00	3377(Q)
17.578	17.155 (0.000)	88	118			0.00- 69.19	23.32	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.119	19.169 (1.117)	98	722915	5.1	5.1		100.00	9957
19.119	19.169 (0.000)	70	27181			0.00- 63.99	3.76	
19.119	19.169 (0.000)	100	142659			15.53- 115.53	19.73	

Data File: /chem/msdj.i/j-17mar.b/j031710.d
Report Date: 17-Mar-1997 15:34

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.171	21.229 (1.000)	117	666468	5.0			100.00	9998
21.171	21.229 (0.000)	82	113864			14.83- 114.83	17.08	
21.583	21.229 (1.000)	117	672	5.0			100.00	6402(Q)
21.583	21.229 (0.000)	82	33			14.83- 114.83	4.91	
21.713	21.229 (1.000)	117	332	5.0			100.00	9122
21.713	21.229 (0.000)	82	75			14.83- 114.83	22.59	
65 Bromofluorobenzene					CAS #: 460-00-4			
22.995	23.060 (1.086)	95	562662	5.4	5.4		100.00	8047
22.995	23.060 (0.000)	174	79672			7.76- 107.76	14.16	
22.995	23.060 (0.000)	176	77840			7.57- 107.57	13.83	
16 Acetone					CAS #: 67-64-1			
12.611	12.578 (0.799)	43	181983	2.6	5.0		100.00	
12.611	12.578 (0.799)	58	48239			0.00- 79.57	26.51	
17 Carbon Disulfide					CAS #: 75-15-0			
12.795	12.707 (0.811)	76	57256	0.43	0.82 <		100.00	7739
20 Methylene Chloride					CAS #: 75-09-2			
13.397	13.409 (0.849)	84	3283	0.081	0.15 <		100.00	2895(aQ)
13.397	13.409 (0.000)	49	573			101.55- 201.55	17.45	
13.397	13.409 (0.000)	51	147			0.00- 96.86	4.48	
28 2-Butanone					CAS #: 78-93-3			
15.427	15.461 (0.977)	72	42942	2.2	4.2		100.00	7822
15.427	15.461 (0.000)	43	65038			451.27- 551.27	151.46	
15.427	15.461 (0.000)	57	3492			0.00- 84.11	8.13	
15.167	15.461 (0.961)	72	32091	1.6	3.1		100.00	4499(Q)
15.167	15.461 (0.000)	43	14423			451.27- 551.27	44.94	
15.167	15.461 (0.000)	57	3792			0.00- 84.11	11.82	
15.686	15.461 (0.994)	72	2135	0.11	0.21		100.00	1842(Q)
15.686	15.461 (0.000)	43	8082			451.27- 551.27	378.55	
15.686	15.461 (0.000)	57	1919			0.00- 84.11	89.88	
33 1,1,1-Trichlorethane					CAS #: 71-55-6			
16.144	16.186 (1.023)	97	5738	0.069	0.13 <		100.00	6981(a)
16.144	16.186 (0.000)	99	934			14.04- 114.04	16.28	
37 Benzene					CAS #: 71-43-2			
16.663	16.705 (0.974)	78	394060	2.6	5.0		100.00	9392
16.663	16.705 (0.000)	77	29285			0.00- 74.19	7.43	

Data File: /chem/msdj.i/j-17mar.b/j031710.d
Report Date: 17-Mar-1997 15:34

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY	
38 1,2-Dichloroethane					CAS #: 107-06-2				
16.655	16.713 (0.973)	62	4192	0.072	0.14		100.00	2482	
16.655	16.713 (0.000)	64	230			0.00- 81.75	5.49		
51 Toluene					CAS #: 108-88-3				
19.218	19.268 (1.123)	92	63681	0.71	1.4		100.00	8185	
19.218	19.268 (0.000)	91	31842			118.26- 218.26	50.00		
60 Ethyl Benzene					CAS #: 100-41-4				
21.301	21.366 (1.006)	106	8036	0.11	0.22		100.00		
21.309	21.366 (1.006)	91	27824			296.25- 396.25	346.24		
21.461	21.366 (1.014)	106	31911	0.45	0.86		100.00		(Q)
21.461	21.366 (1.014)	91	72965			296.25- 396.25	228.65		
61 m,p-Xylene					CAS #: 108-38-3				
21.461	21.519 (1.014)	106	31911	0.46	0.88		100.00		
21.461	21.519 (1.014)	91	72965			164.96- 264.96	228.65		
21.301	21.519 (1.006)	106	8036	0.12	0.22		100.00		(Q)
21.309	21.519 (1.006)	91	27824			164.96- 264.96	346.24		
62 o-Xylene					CAS #: 95-47-6				
22.110	22.168 (1.044)	106	12350	0.29	0.55		100.00	8621	
22.110	22.168 (0.000)	91	6770			176.02- 276.02	54.82		
63 Styrene					CAS #: 100-42-5				
22.118	22.183 (1.045)	104	9630	0.11	0.20		100.00	7584	
22.118	22.183 (0.000)	78	1693			1.87- 101.87	17.58		

QC Flag Legend

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

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-17mar.b/j031710.d
Lab Smp Id: 9703097-03A Client Smp ID: 031197D1
Inj Date : 17-MAR-1997 15:12
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Can#11872 031197D1
Misc Info : 9.0"Hg-5.0psi Parsons
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.910 Target Version: 3.12
Integrator: HP RTE Compound Sublist: Parsons.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

	ISTD	RT	AREA	AMOUNT
*	30 Bromochloromethane	15.785	1356406	5.000
*	40 1,4-Difluorobenzene	17.113	2093425	5.000
*	58 Chlorobenzene-d5	21.171	2282285	5.000

		CONCENTRATIONS			QUANT		
RT	AREA	ON-COL(PPBV)	FINAL(PPBV)	QUAL	LIBRARY	LIB ENTRY	CPND #
Unknown				CAS #:			
5.013	562160	2.1	4.0	0		0	30
Unknown				CAS #:			
9.148	839658	3.1	5.9	0		0	30
Butane, 2-methyl-				CAS #: 78-78-4			
10.605	706968	2.6	5.0	72	NBS54K.l	272	30

Data File: /chem/msdj.i/j-17mar.b/j031710.d
Report Date: 17-Mar-1997 15:34

RT	AREA	CONCENTRATIONS ON-COL(PPBV)	CONCENTRATIONS FINAL(PPBV)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
1-Propanol					CAS #: 71-23-8		
14.763	330944	1.2	2.3	72	NBS54K.l	124	30
Butanal					CAS #: 123-72-8		
15.167	245518	0.90	1.7	90	NBS54K.l	257	30
Unknown					CAS #:		
15.251	570669	2.1	4.0	0		0	30
2-Butanol					CAS #: 78-92-2		
15.686	328014	1.2	2.3	83	NBS54K.l	317	30
1-Butanol					CAS #: 71-36-3		
17.319	706695	1.7	3.2	64	NBS54K.l	322	40
Butanoic acid, ethyl ester					CAS #: 105-54-4		
19.745	425570	0.93	1.8	72	NBS54K.l	2890	58
Butanoic acid, propyl ester					CAS #: 105-66-8		
21.797	272321	0.60	1.1	64	NBS54K.l	4767	58
Acetamide, N,N-dimethyl-					CAS #: 127-19-5		
22.629	1535841	3.4	6.4	56	NBS54K.l	707	58
Cyclotetrasiloxane, octamethyl-					CAS #: 556-67-2		
22.781	2747209	6.0	11.5	83	NBS54K.l	35637	58
Unknown					CAS #:		
23.964	212855	0.47	0.89	0		0	58
Methyl sec-butyl disulphide					CAS #: 67421-87-8		
24.628	267732	0.59	1.1	81	NBS54K.l	5565	58
Nonanal					CAS #: 124-19-6		
27.244	285586	0.62	1.2	72	NBS54K.l	6942	58

Data File: /chem/msdj.i/j-17mar.b/j031710.d
Report Date: 17-Mar-1997 15:34

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j031710.d
Lab Smp Id: 9703097-03A
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-17mar.b/to140109.m
Misc Info: 9.0"Hg-5.0psi Parsons

Calibration Date: 03/17/97
Calibration Time: 0849
Client Smp ID: 031197D1
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	234650	140790	328510	177264	-24.46
40 1,4-Difluorobenzene	1091071	654643	1527499	779823	-28.53
58 Chlorobenzene-d5	904693	542816	1266570	666468	-26.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	15.78	15.28	16.28	15.79	0.06
40 1,4-Difluorobenzene	17.11	16.61	17.61	17.11	0.01
58 Chlorobenzene-d5	21.18	20.68	21.68	21.17	-0.03

MH 3/17/97

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/msdj.i/j-17mar.b/j031710.d
Report Date: 17-Mar-1997 15:34

Air Toxics Limited

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id: 9703097-03A
Level: LOW
Data Type: MS DATA
SpikeList File:
Method File: /chem/msdj.i/j-17mar.b/to140109.m
Misc Info: 9.0"Hg-5.0psi Parsons

Client SDG: j-17mar
Fraction: VOA
Client Smp ID: 031197D1
Operator: MH
SampleType: SAMPLE
Quant Type: ISTD

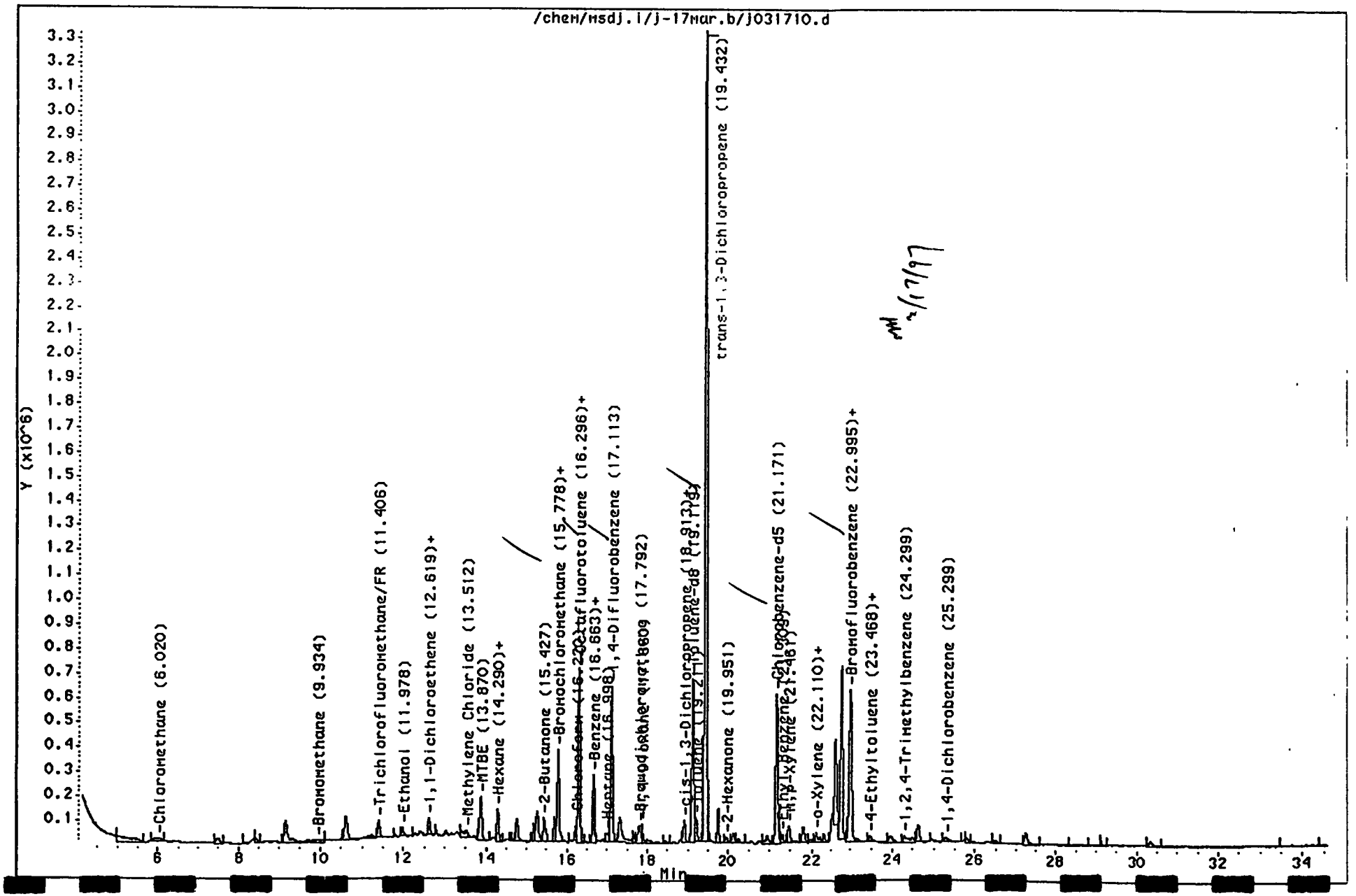
SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	5.4	108.58	60-140
$ 49 Toluene-d8	5.0	5.1	102.46	60-140
$ 65 Bromofluorobenzene	5.0	5.4	109.03	60-140

MM
3/17/97

Data File: /chem/msdj.i/j-17mar.b/j031710.d
Date : 17-MAR-1997 15:12
Client ID: 031197D1
Sample Info: 500mL Can#11872 031197D1

Instrument: msdj.i
Operator: MH
Column diameter: 0.58

Column phase: RTx-624



Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 031197D1

Instrument: msdj.i

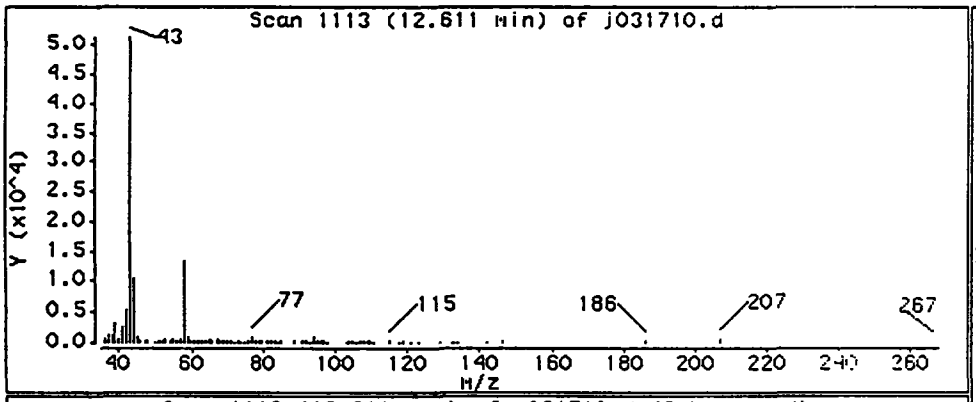
Sample Info: 500mL Can#11872 031197D1

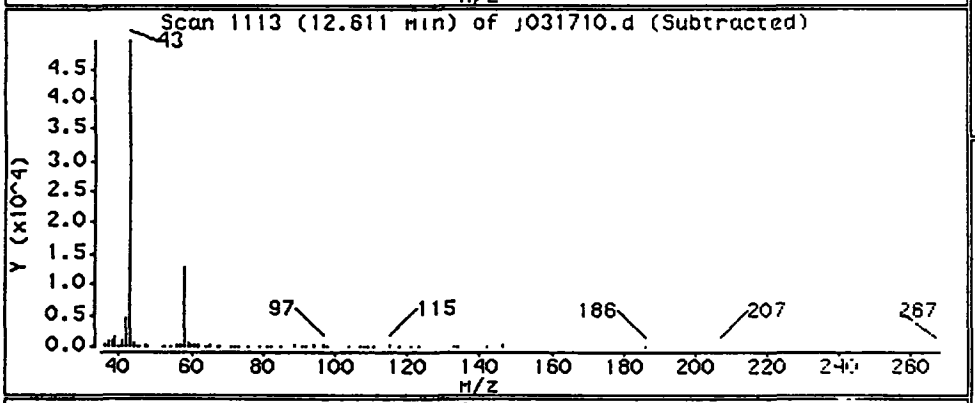
Operator: MH

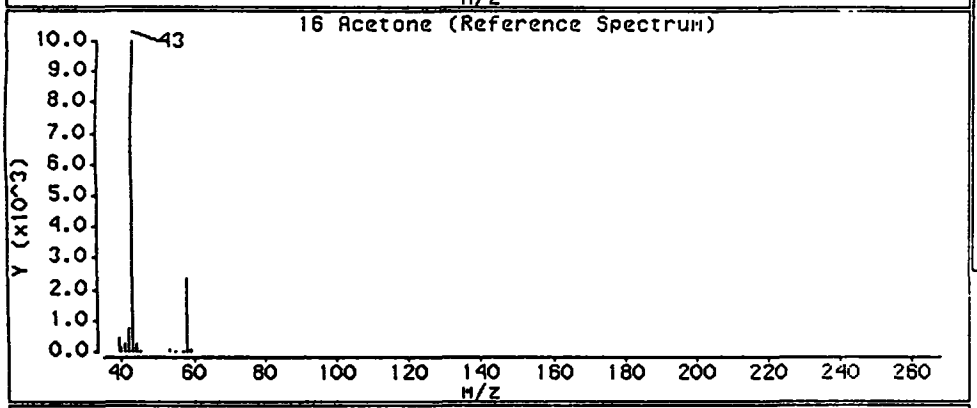
Column phase: RTx-624

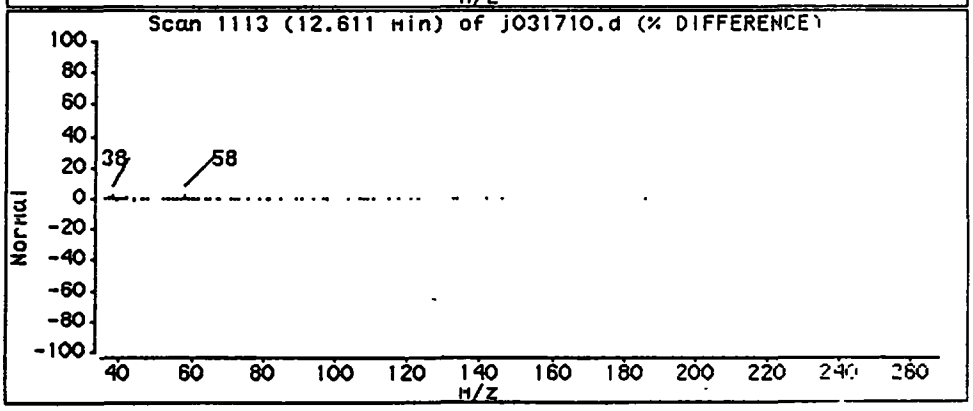
Column diameter: 0.58

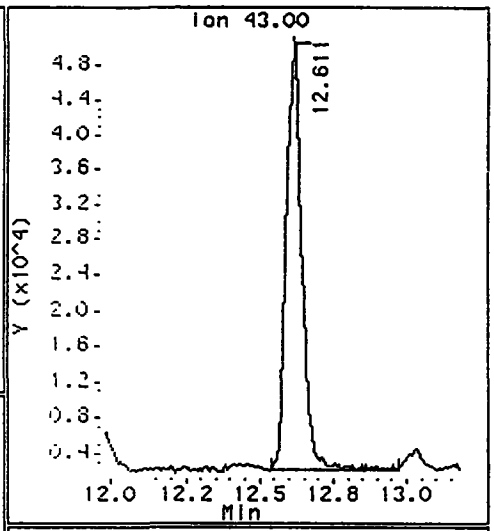
16 Acetone

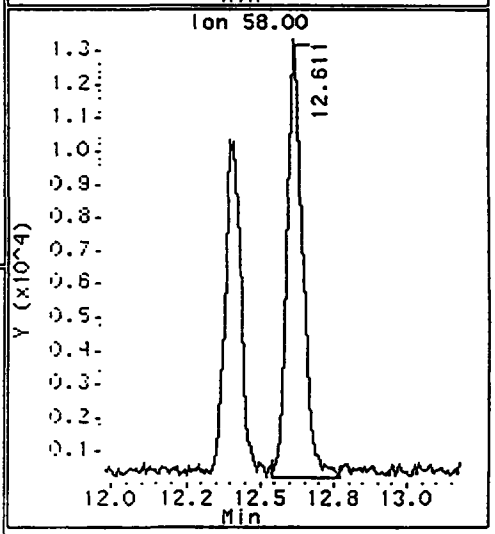












Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 031197D1

Instrument: msdj.i

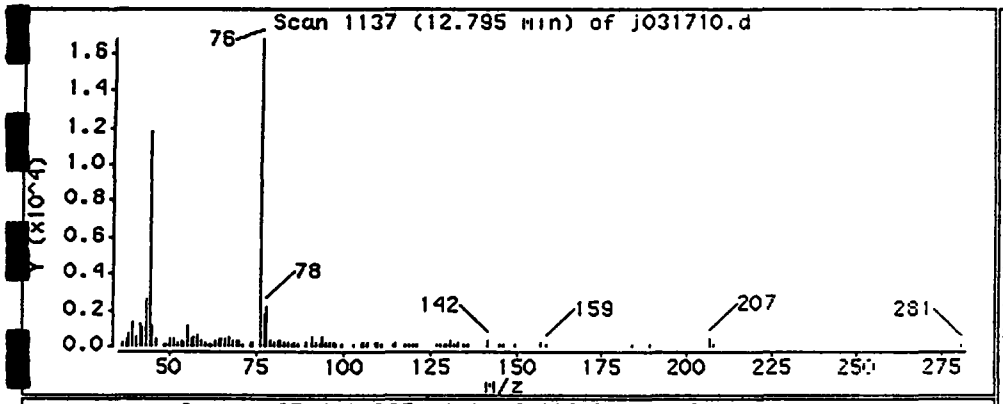
Sample Info: 500mL Can#11872 031197D1

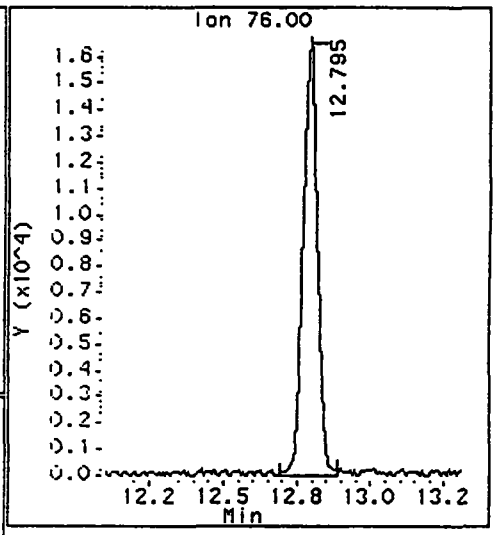
Operator: MH

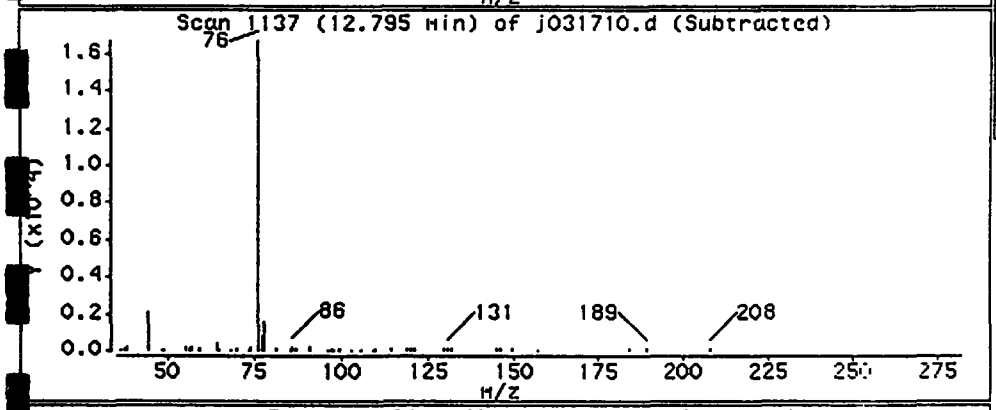
Column phase: RTx-624

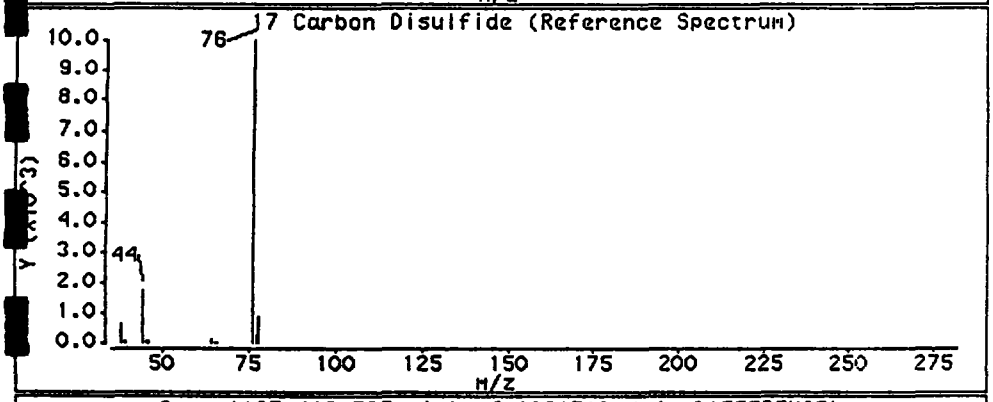
Column diameter: 0.58

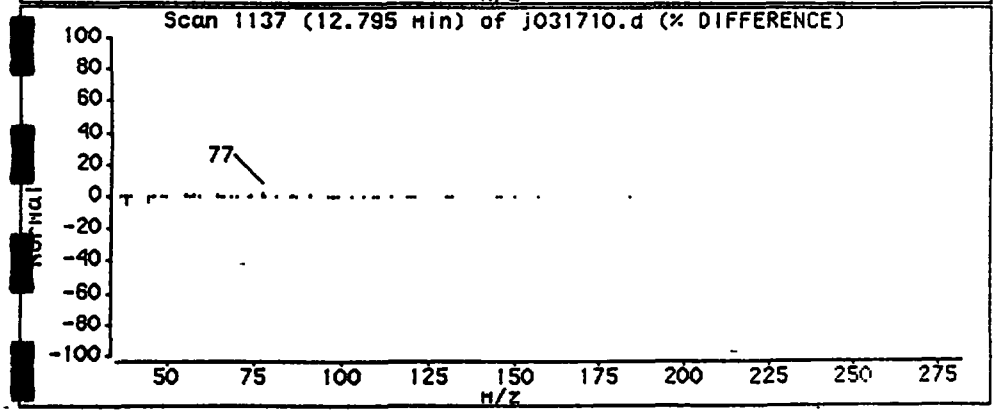
17 Carbon Disulfide











Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 031197D1

Instrument: msdj.i

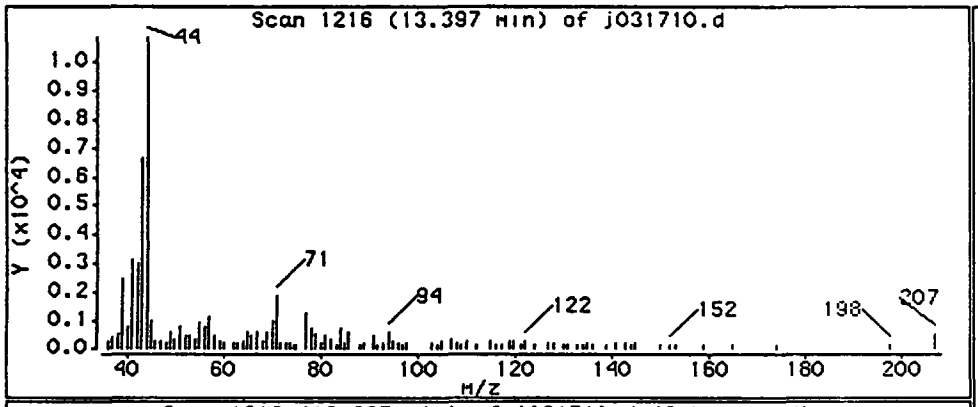
Sample Info: 500ML Can#11872 031197D1

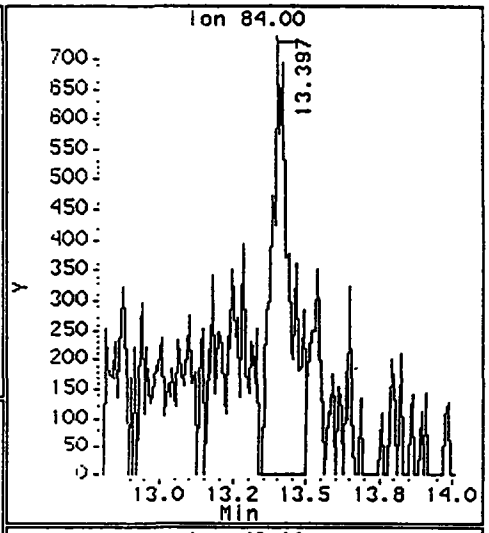
Operator: MH

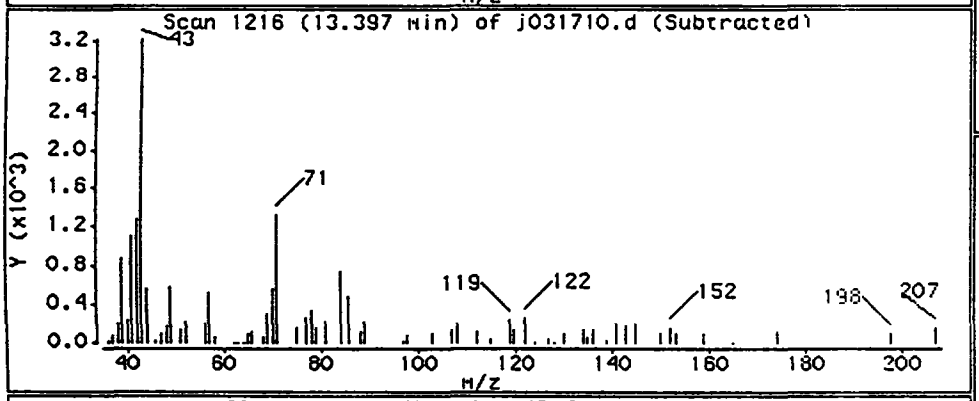
Column phase: RTx-624

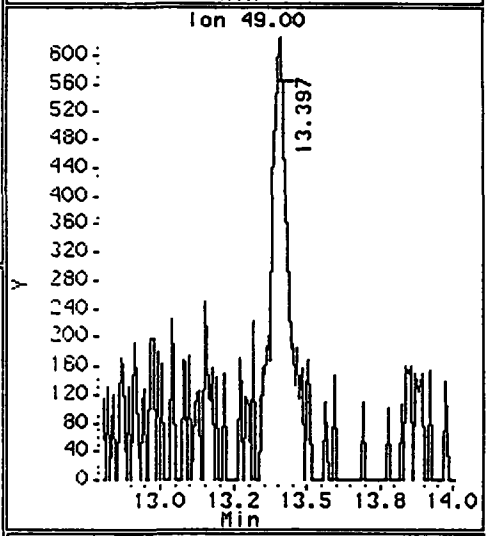
Column diameter: 0.58

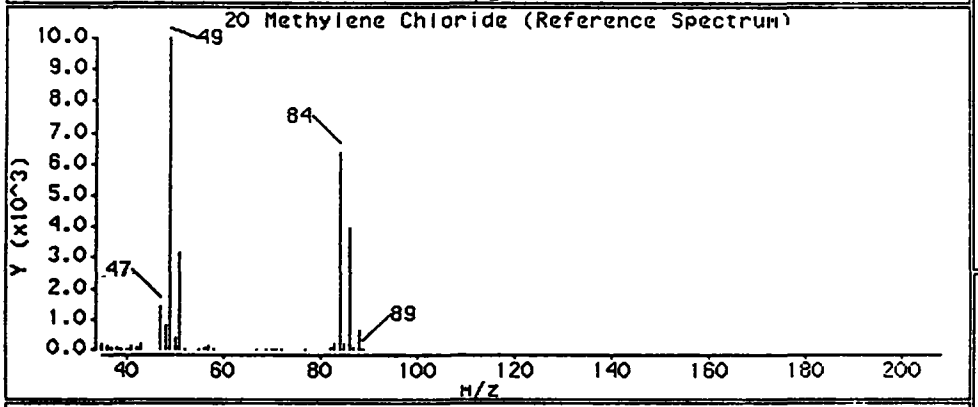
20 Methylene Chloride

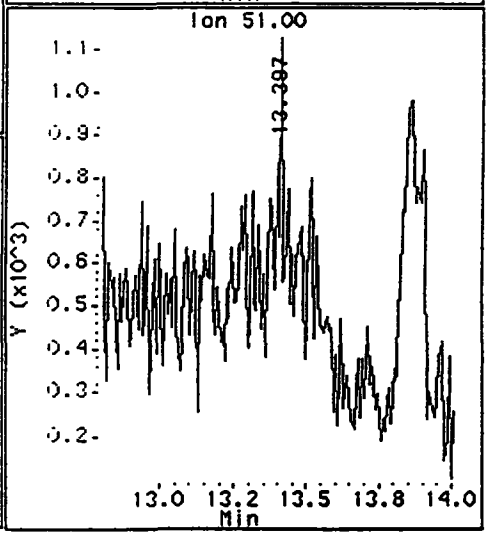


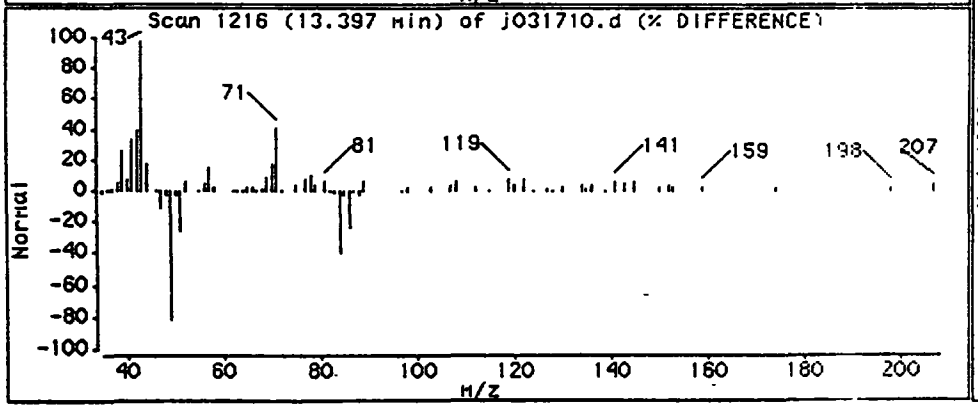












Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 03119701

Instrument: msdj.i

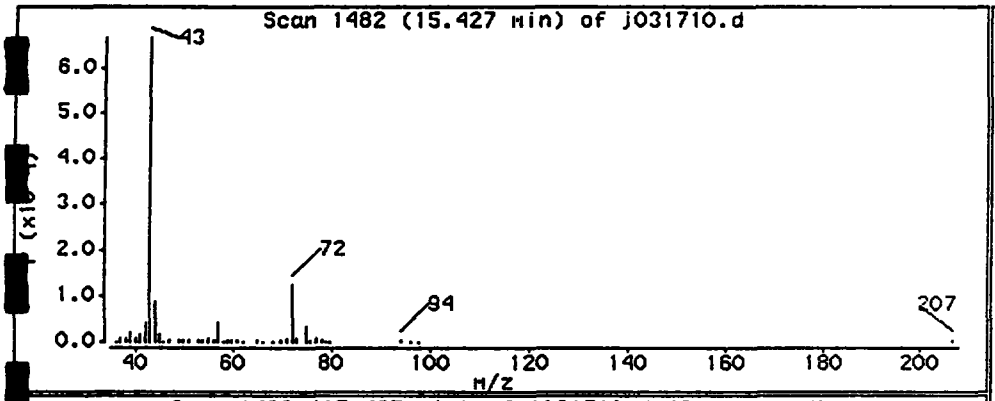
Sample Info: 500mL Can#11872 03119701

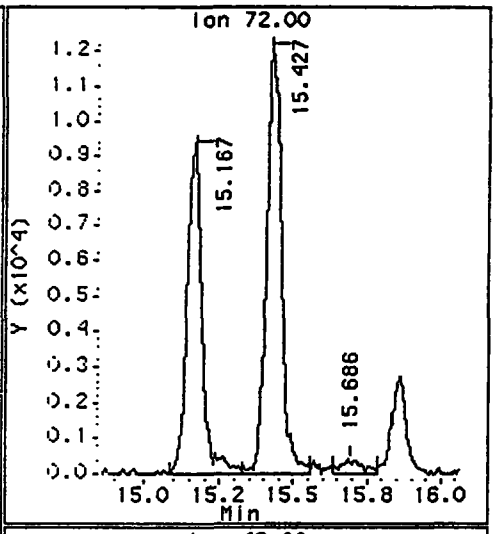
Operator: MH

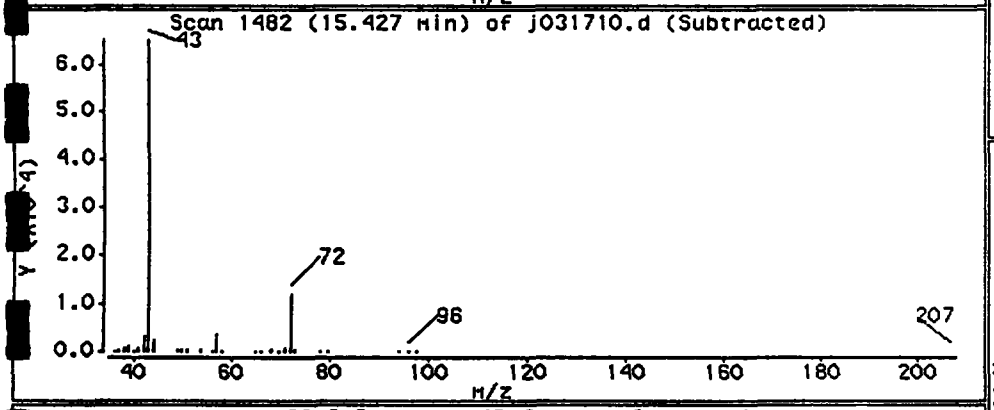
Column phase: RTx-624

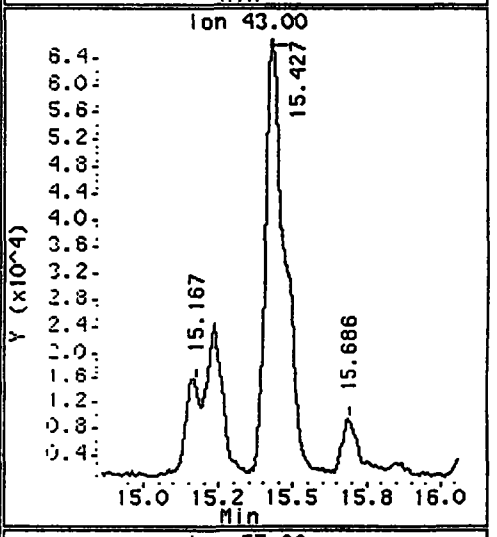
Column diameter: 0.58

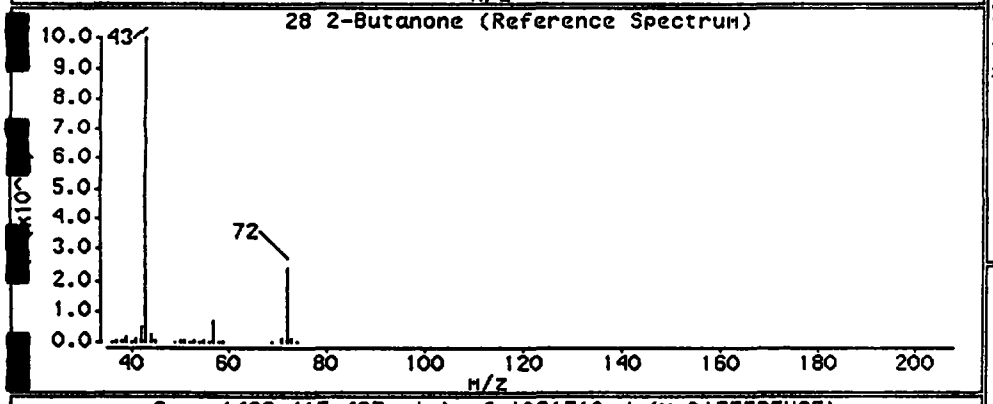
28 2-Butanone

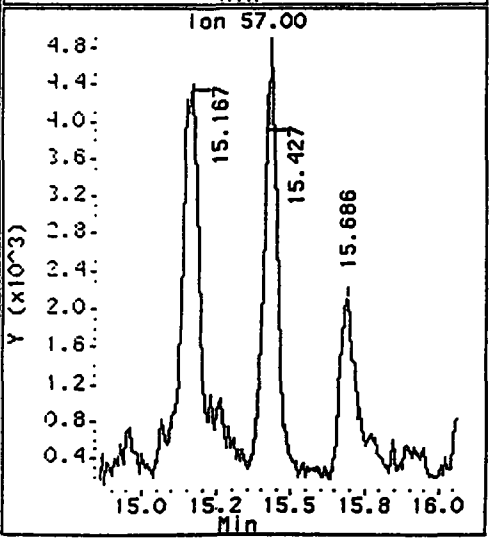


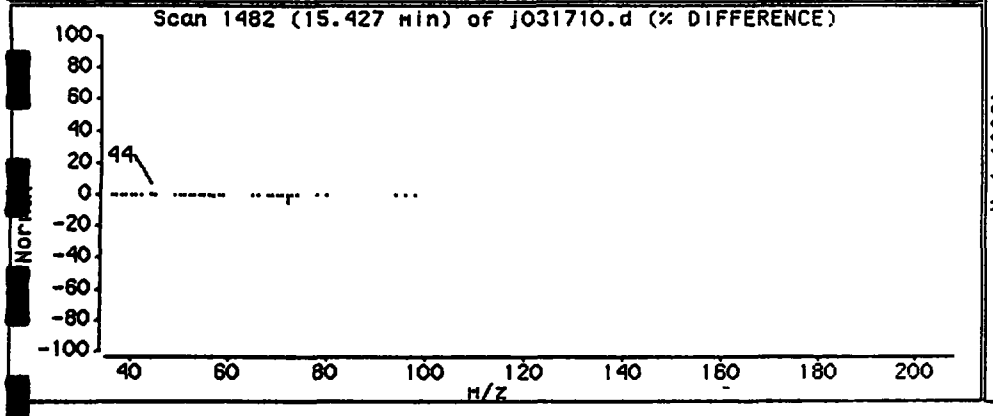












Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 031197D1

Instrument: msdj.i

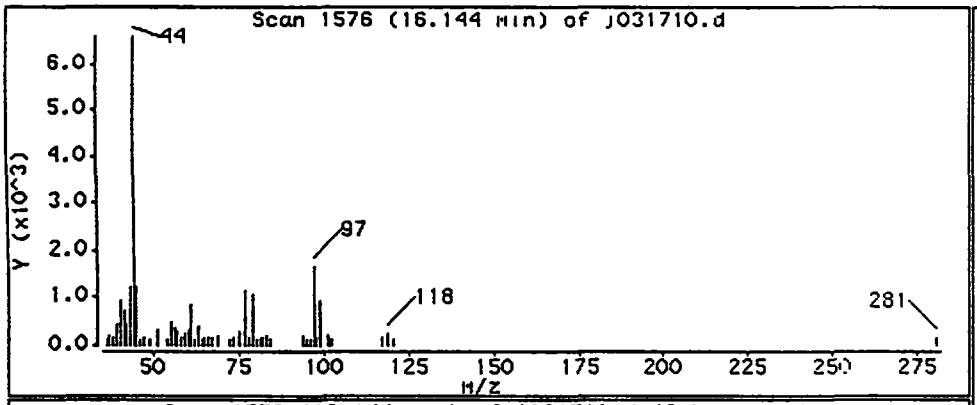
Sample Info: 500mL Can#11872 031197D1

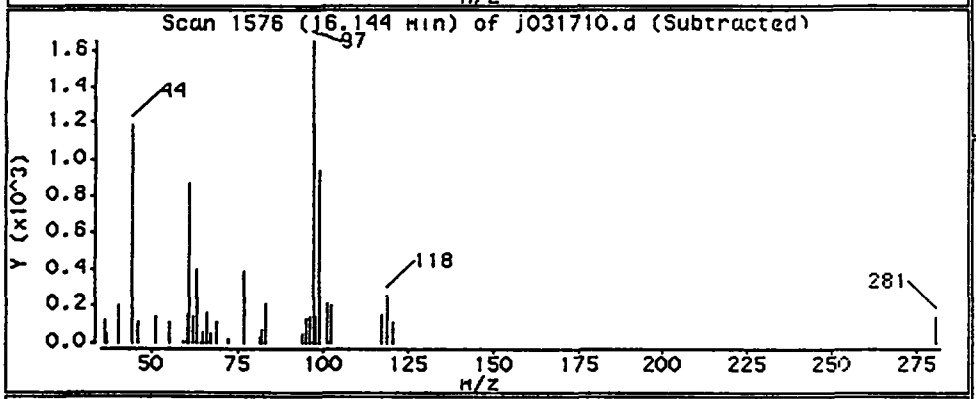
Operator: MH

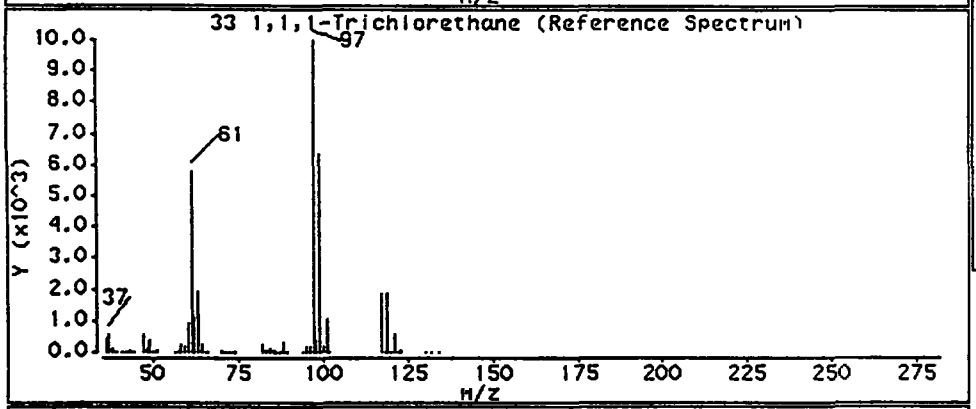
Column phase: RTx-624

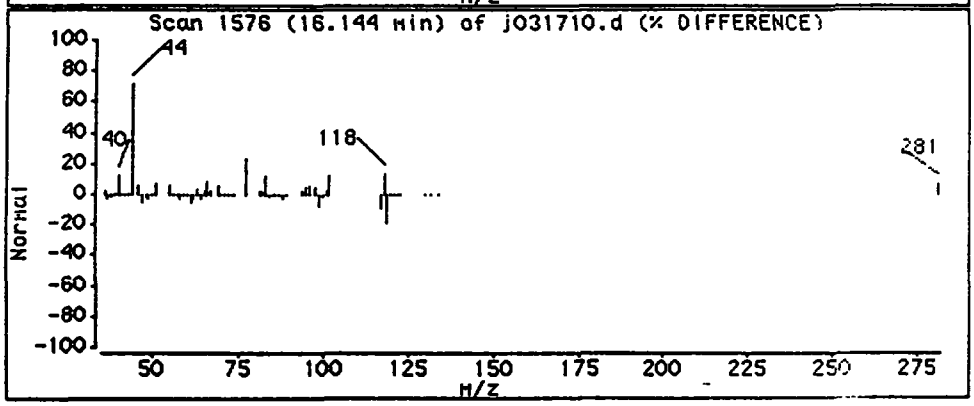
Column diameter: 0.58

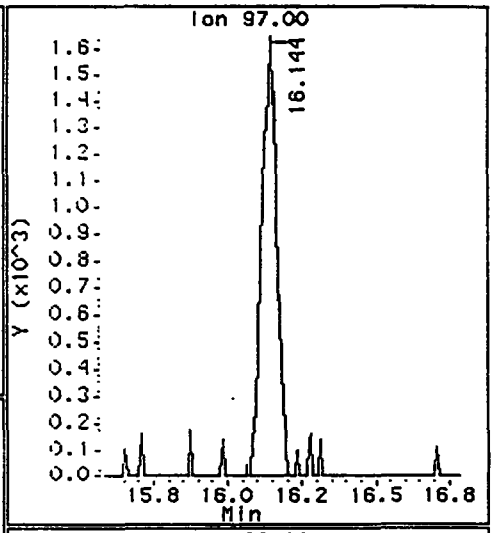
33 1,1,1-Trichlorethane

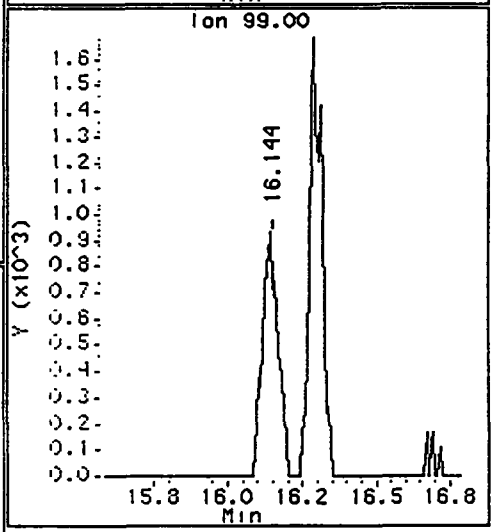












Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 031197D1

Instrument: msdj.i

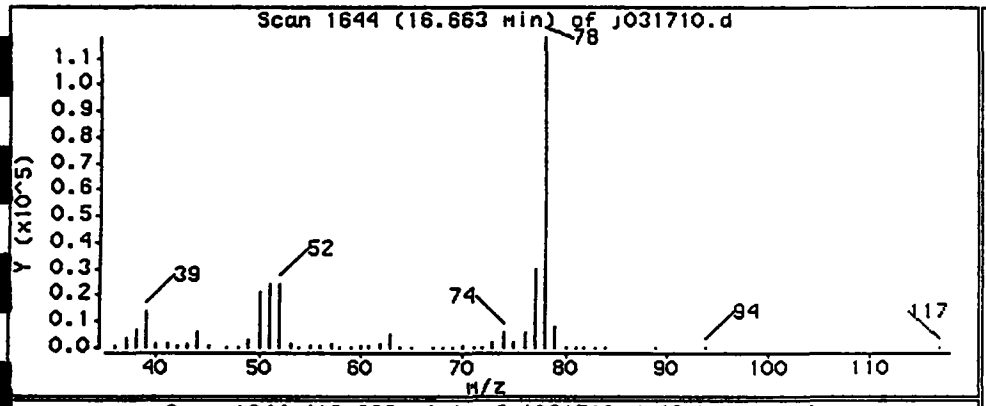
Sample Info: 500mL Can#11872 031197D1

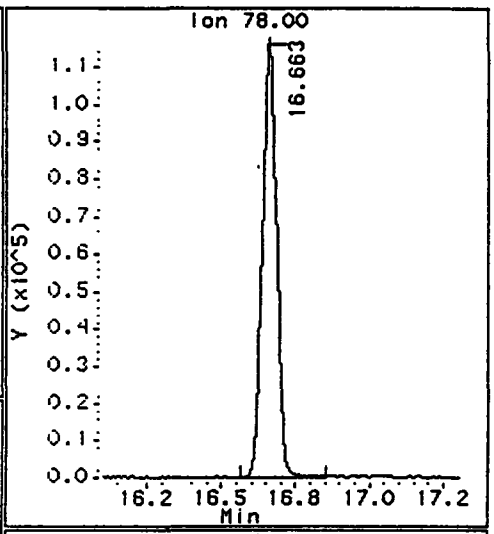
Operator: MH

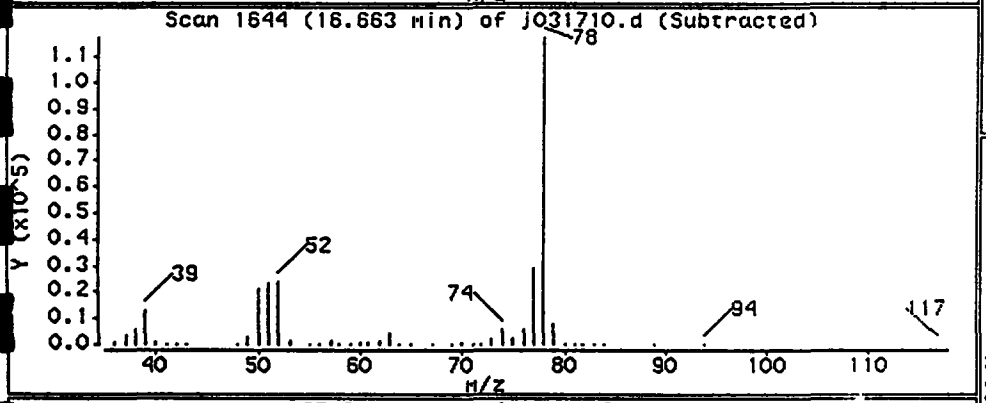
Column phase: RTx-624

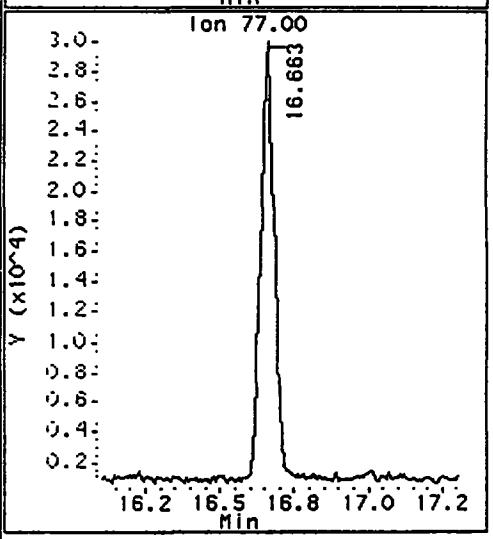
Column diameter: 0.58

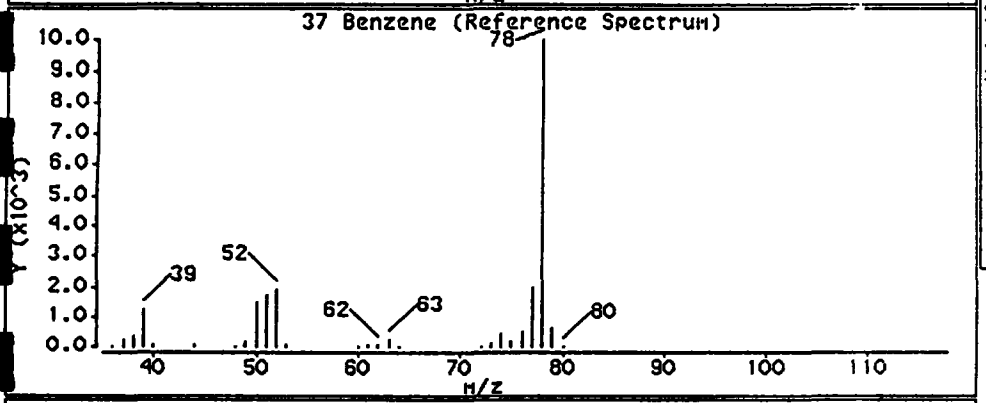
37 Benzene

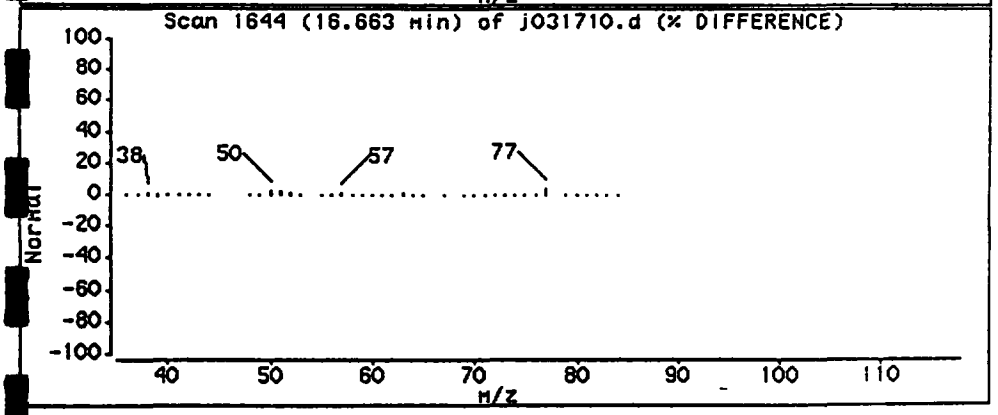












Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 031197D1

Instrument: msdj.i

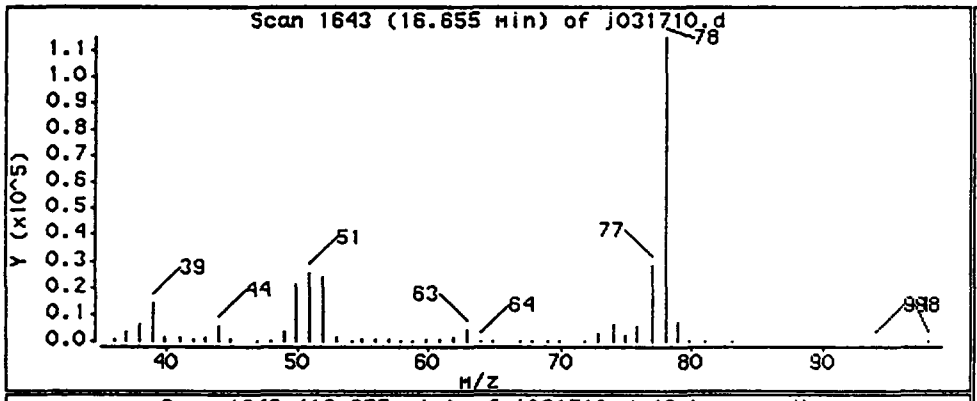
Sample Info: 500mL Can#11872 031197D1

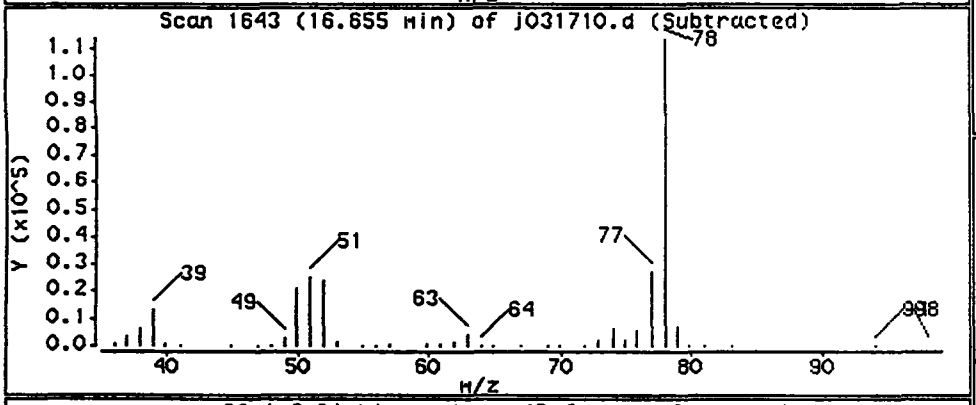
Operator: MH

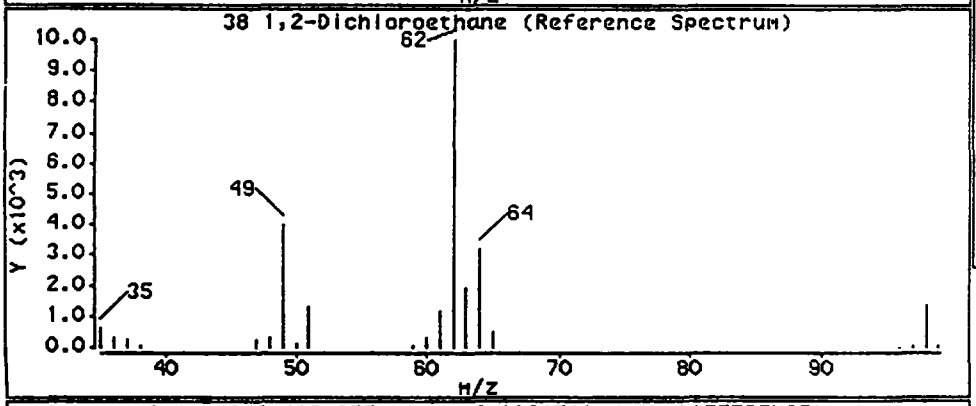
Column phase: RTx-624

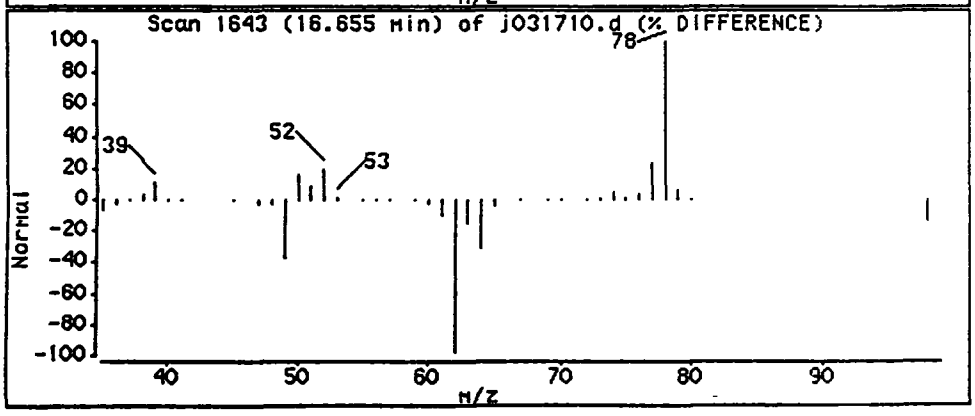
Column diameter: 0.58

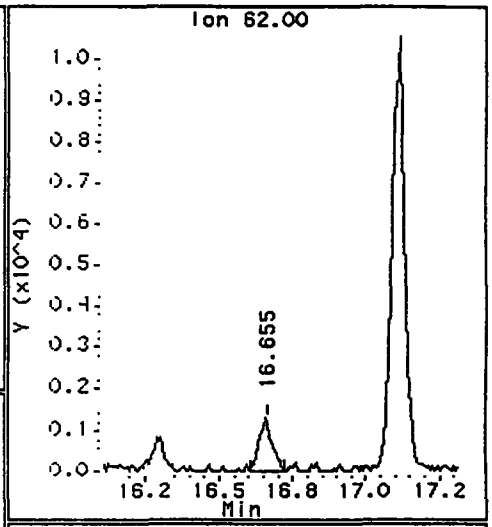
38 1,2-Dichloroethane

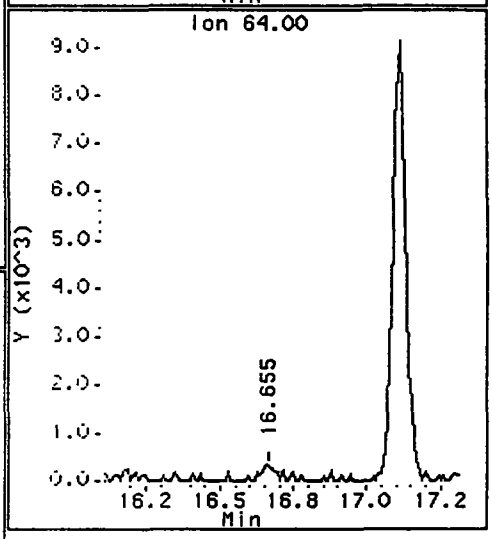












Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 03119701

Instrument: msdj.i

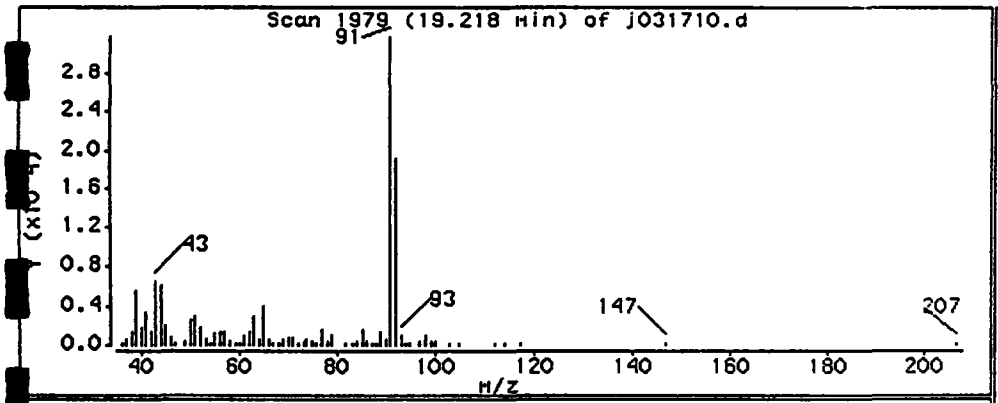
Sample Info: 500mL Can#11872 03119701

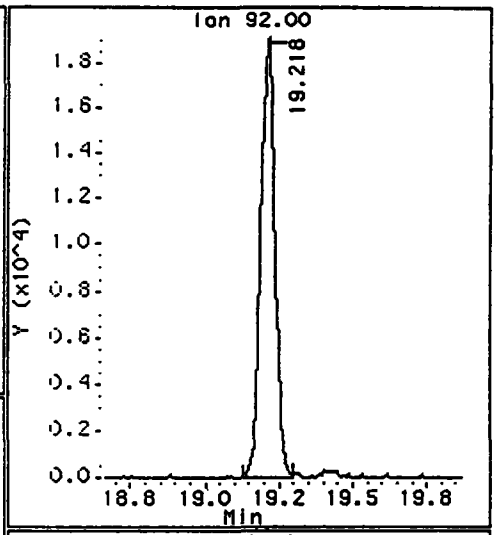
Operator: MH

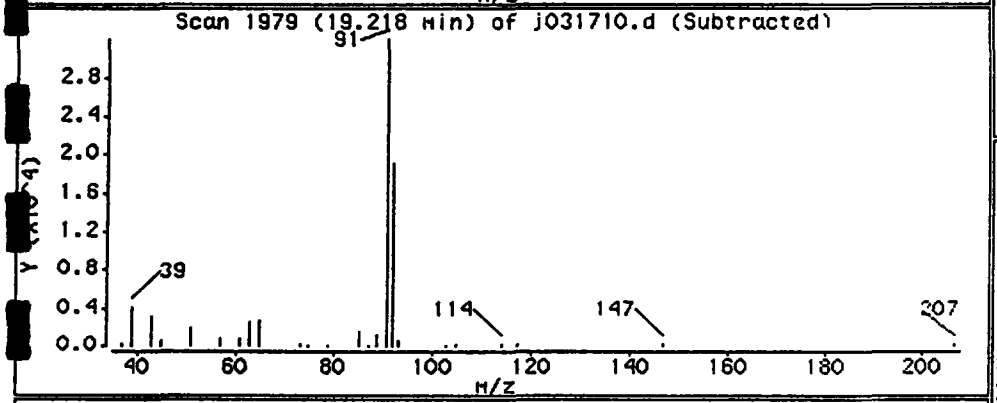
Column phase: RTx-624

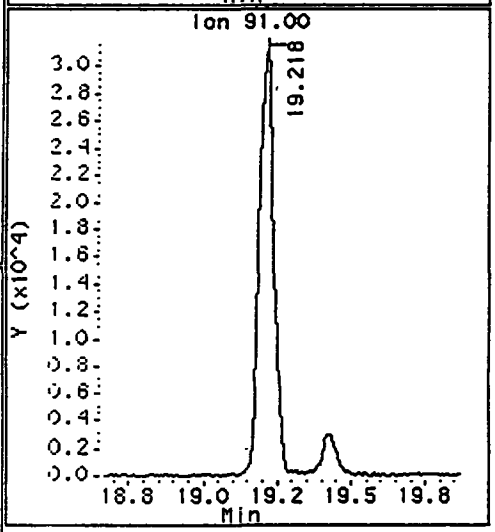
Column diameter: 0.58

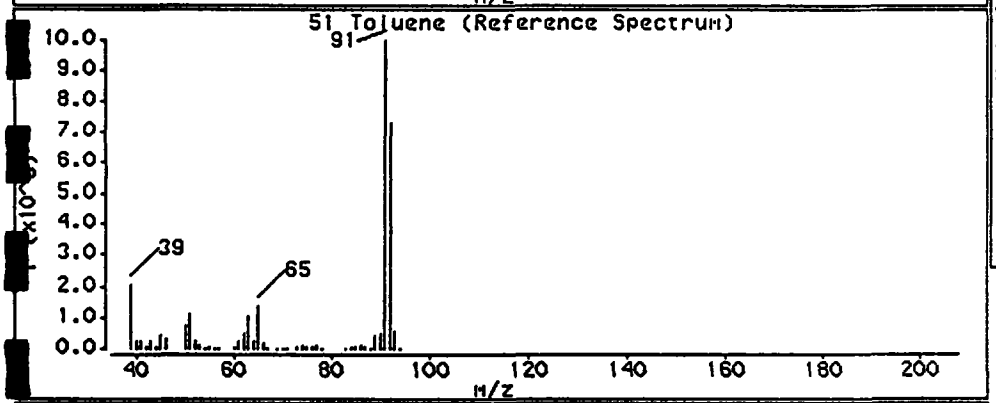
51 Toluene

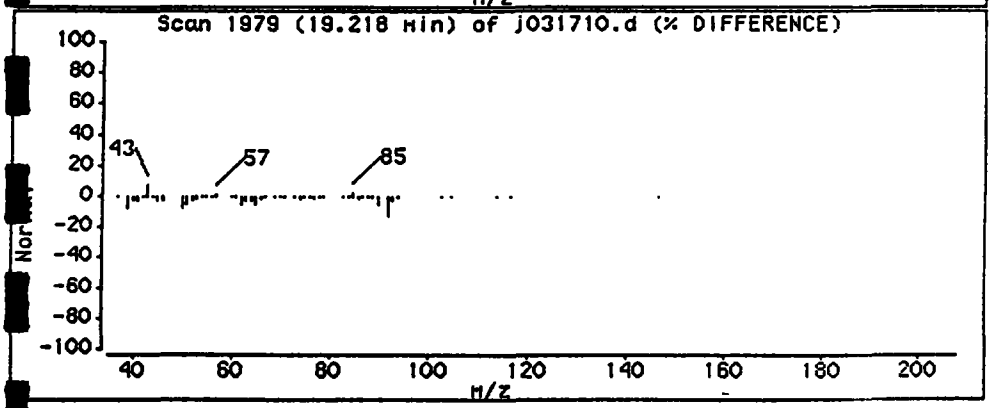












Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 031197D1

Instrument: msdj.i

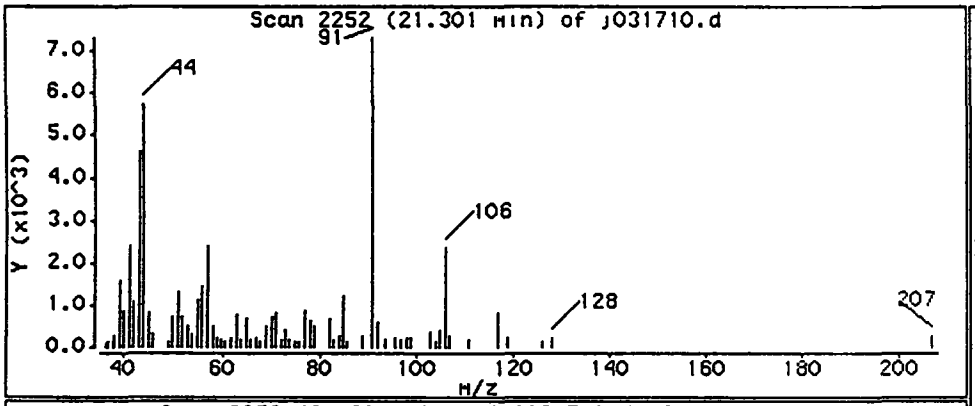
Sample Info: 500mL Can#11872 031197D1

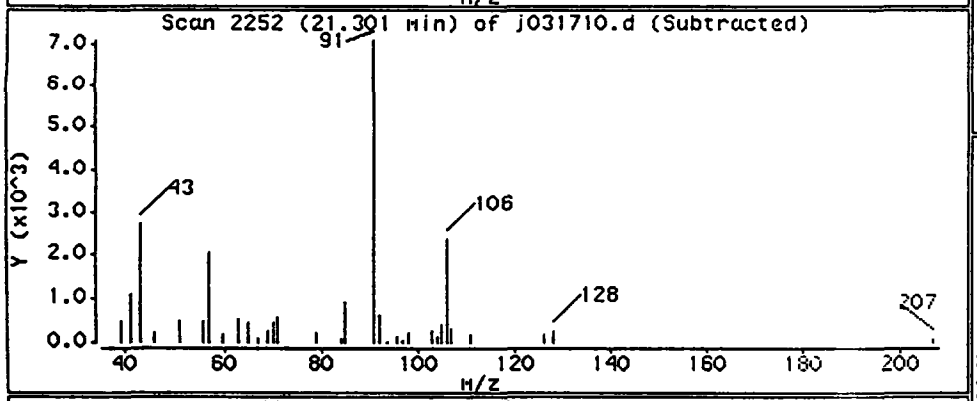
Operator: MH

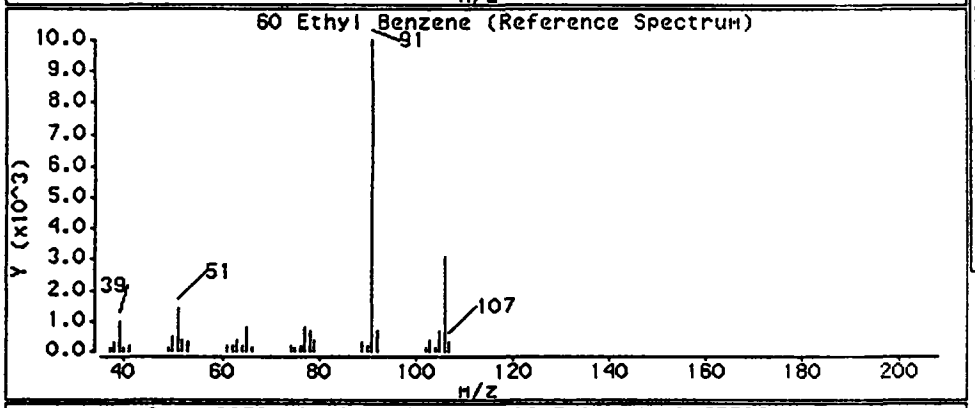
Column phase: RTx-624

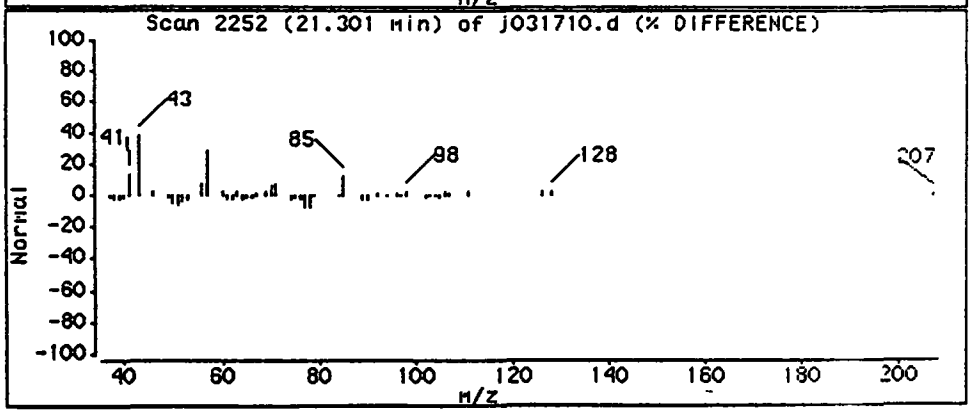
Column diameter: 0.58

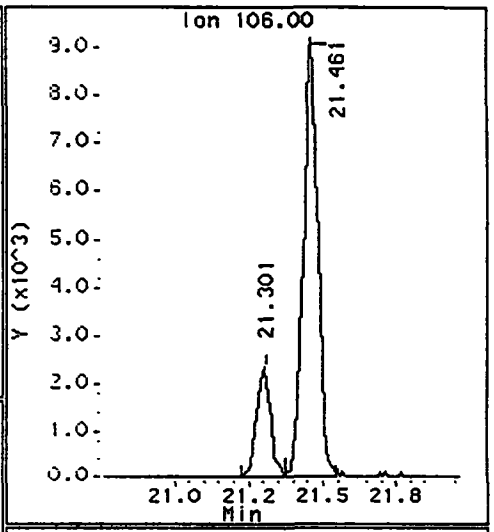
60 Ethyl Benzene

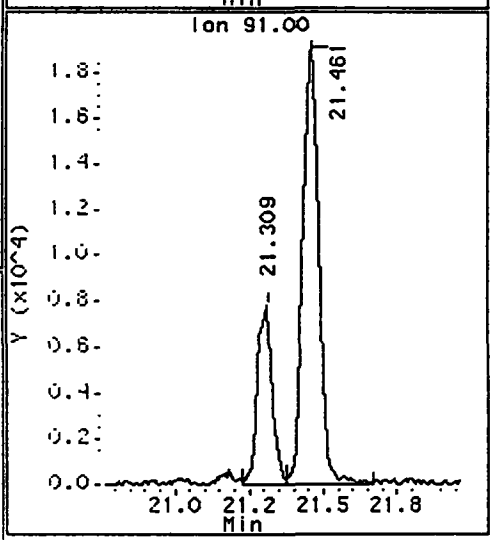












Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 03119701

Instrument: msdj.i

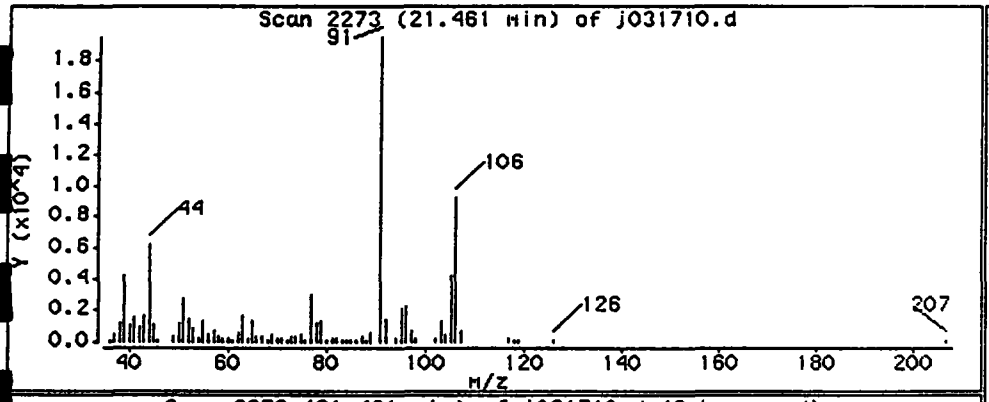
Sample Info: 500mL Can#11872 03119701

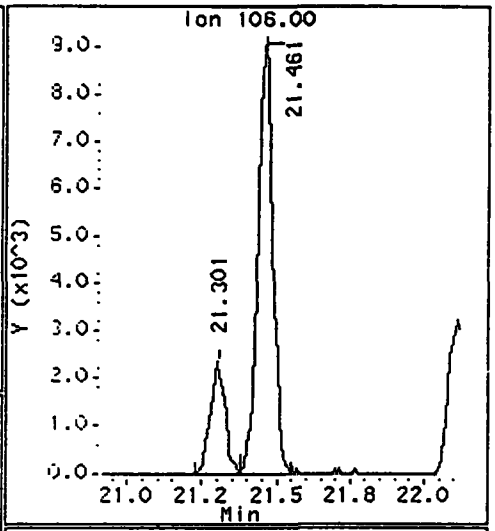
Operator: MH

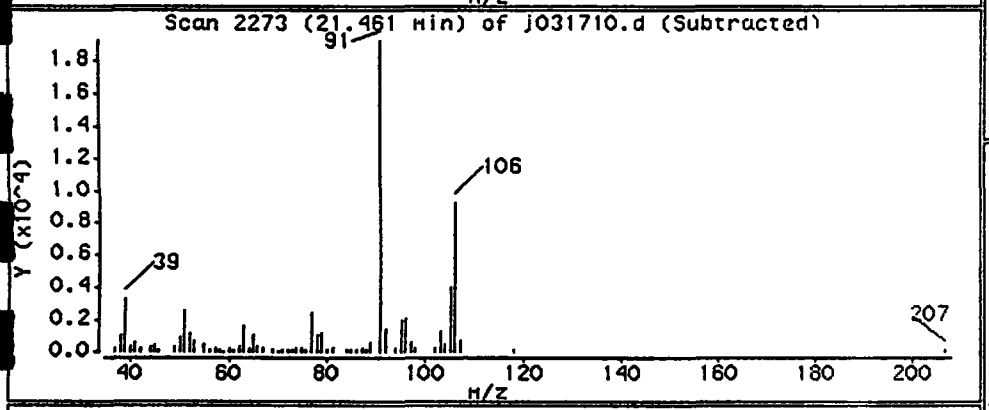
Column phase: RTx-624

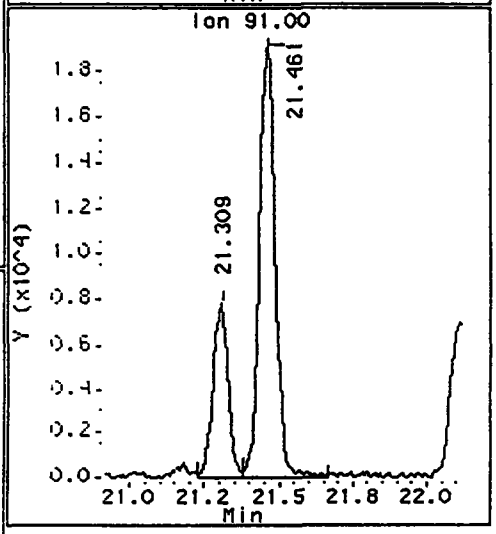
Column diameter: 0.58

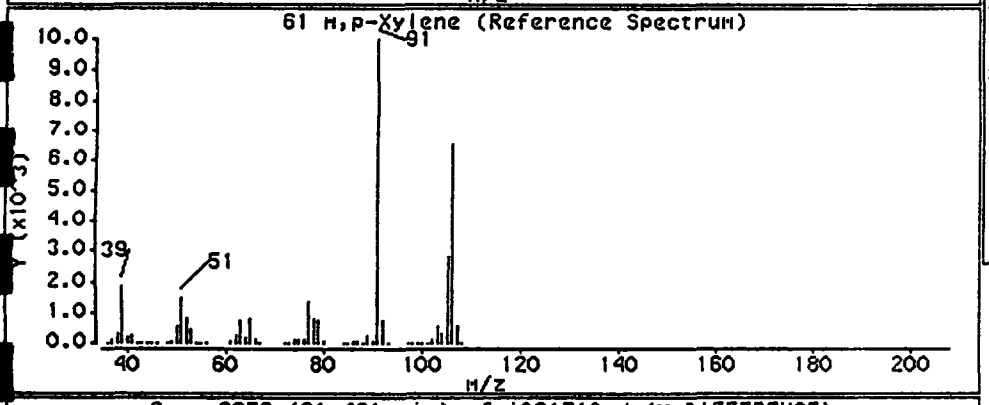
61 m,p-Xylene

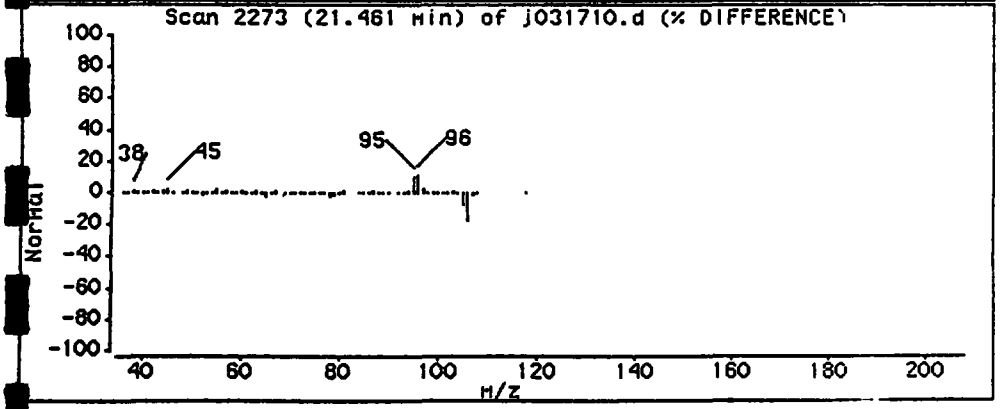












Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 031197D1

Instrument: msdj.i

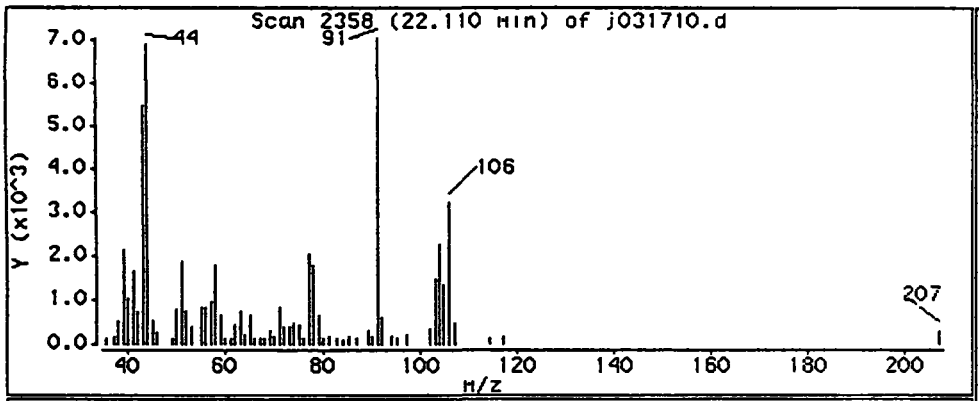
Sample Info: 500mL Can#11872 031197D1

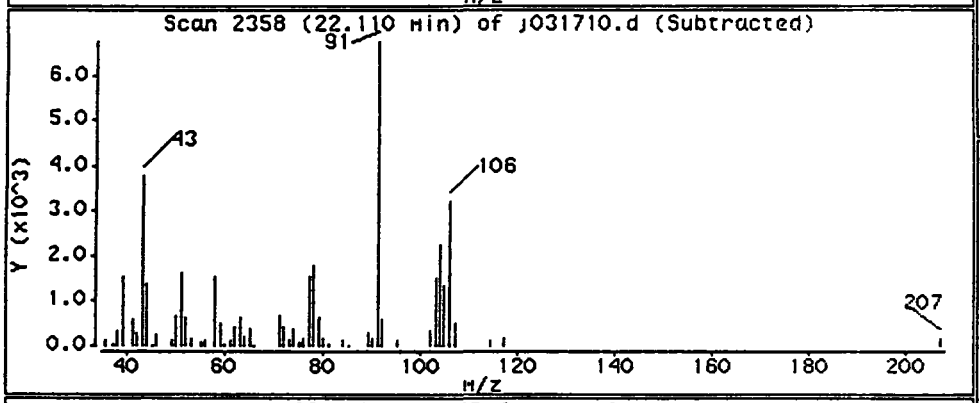
Operator: MH

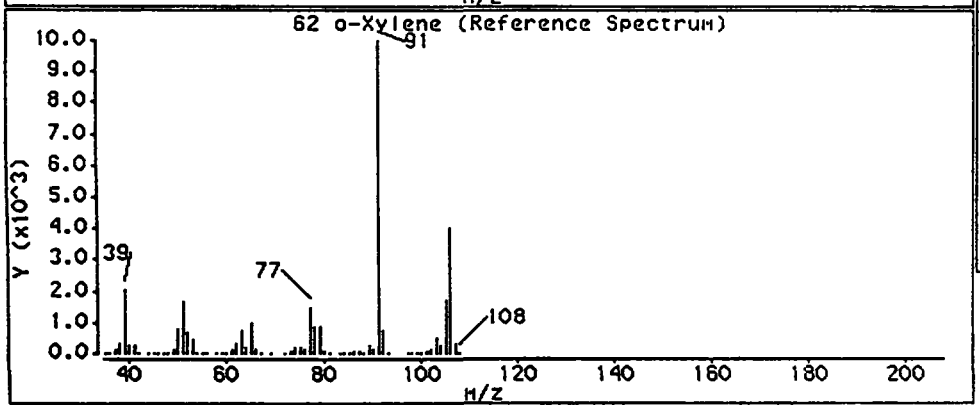
Column phase: RTx-624

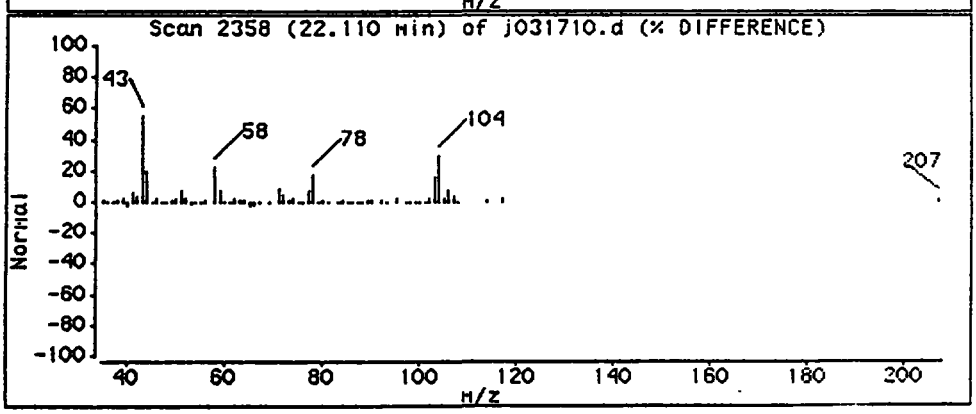
Column diameter: 0.58

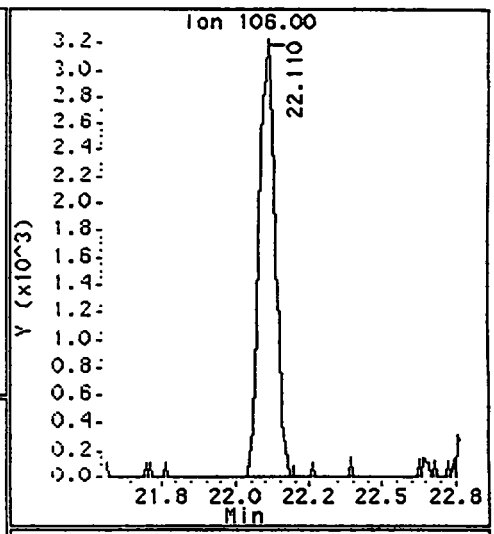
62 o-Xylene

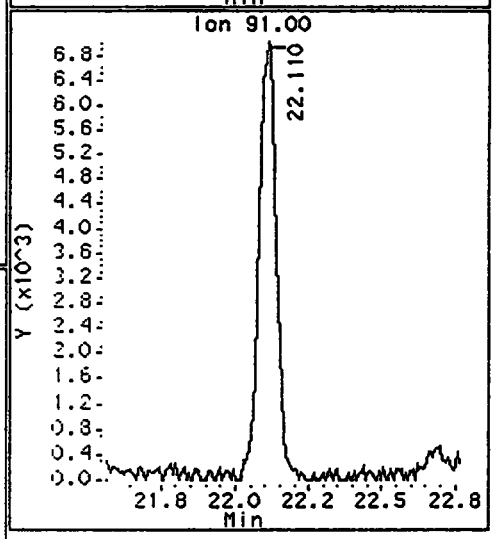


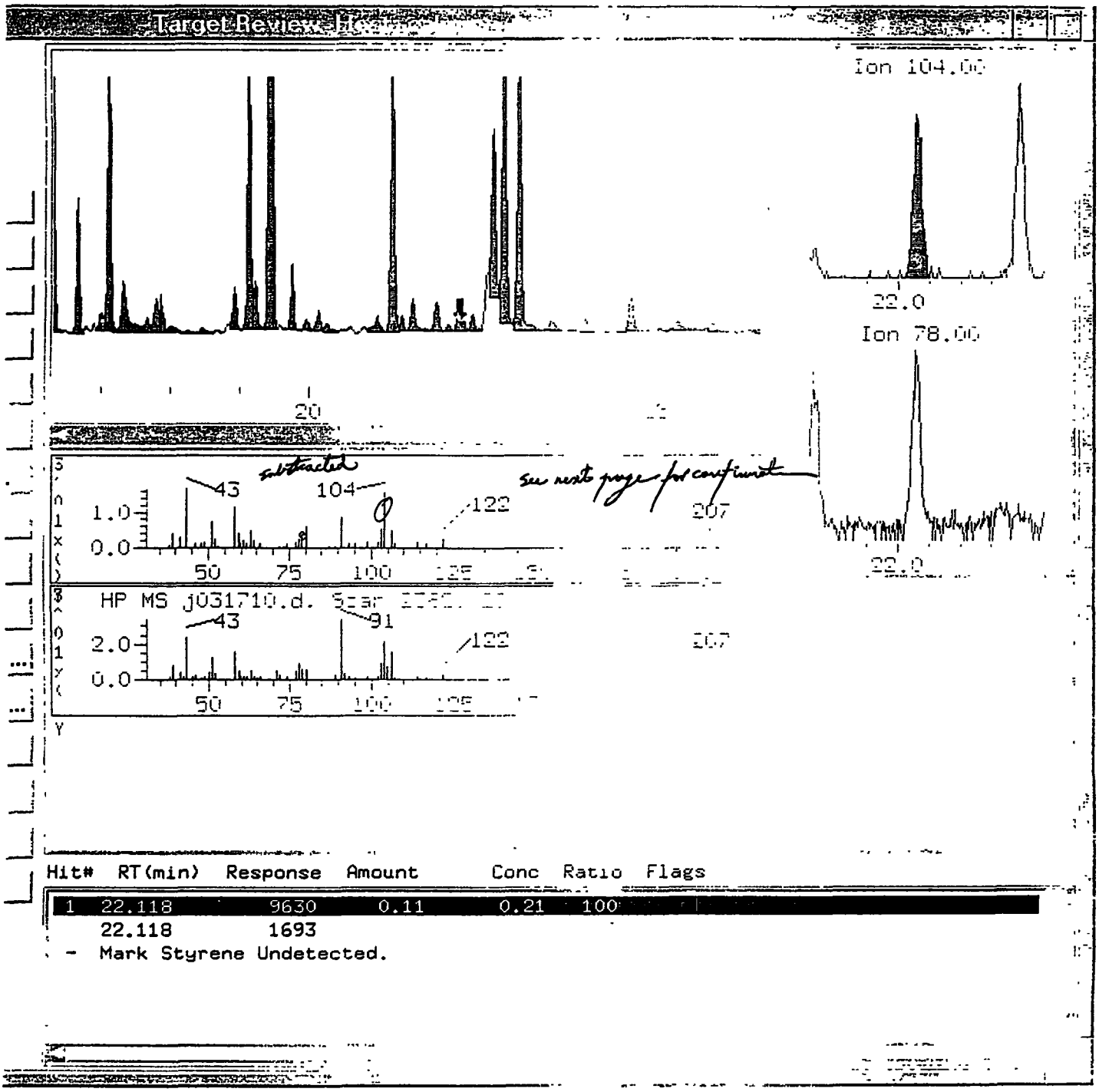












Hit#	RT(min)	Response	Amount	Conc	Ratio	Flags
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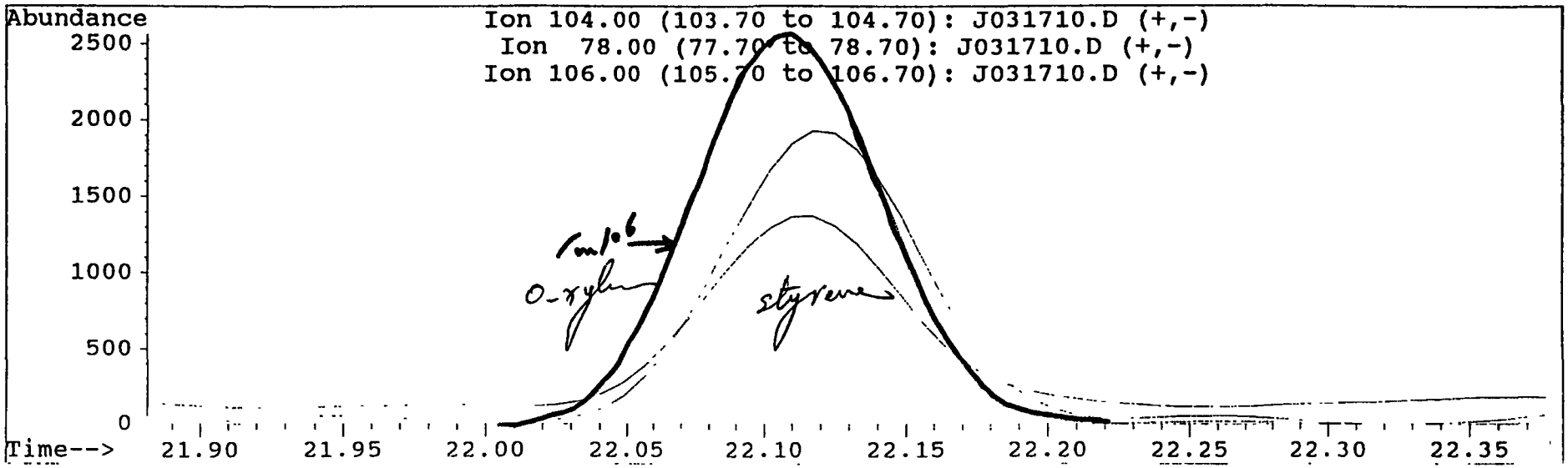
	22.118	1693				

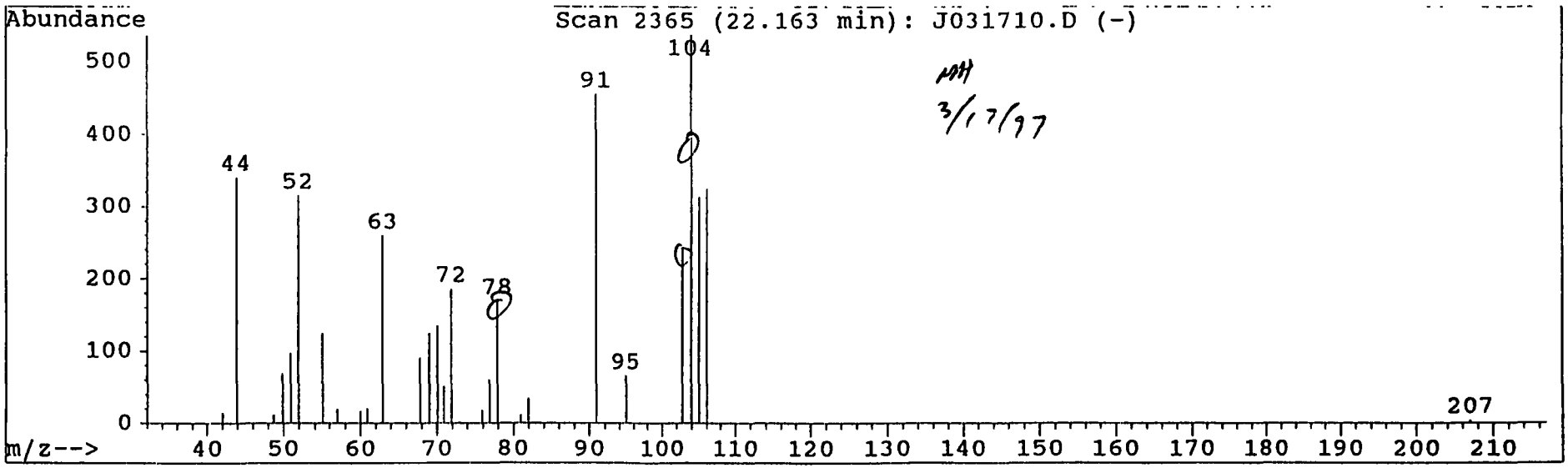
- Mark Styrene Undetected.

MH 3/17/97

c196

File : C:\HPCHEM\1\DATA\J-17MAR.B\J031710.D
Operator : MH
Acquired : 17 Mar 97 3:12 pm using AcqMethod TO140109
Instrument : 5972 - In
Sample Name: 9703097-03A 500mL Can#11872 Parsons 9"-5psi 031197D1
Misc Info :
Vial Number: 1





Data File: /chem/msdj.i/j-17mar.b/j031710.d

Date : 17-MAR-1997 15:12

Client ID: 031197D1

Instrument: msdj.i

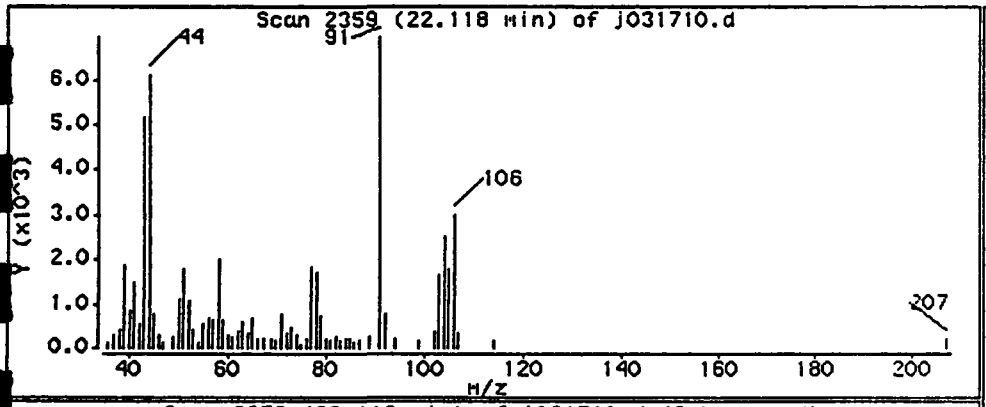
Sample Info: 500mL Can#11872 031197D1

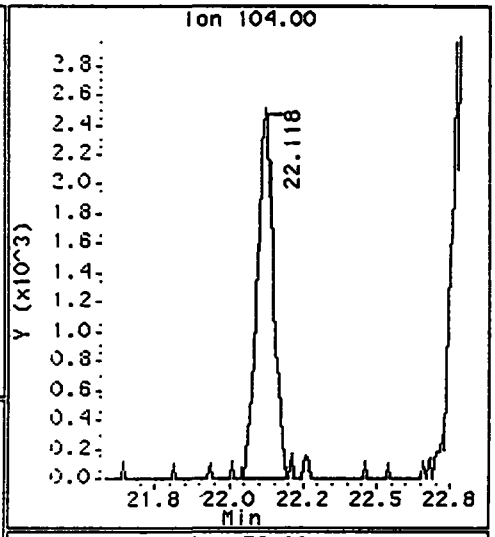
Operator: MH

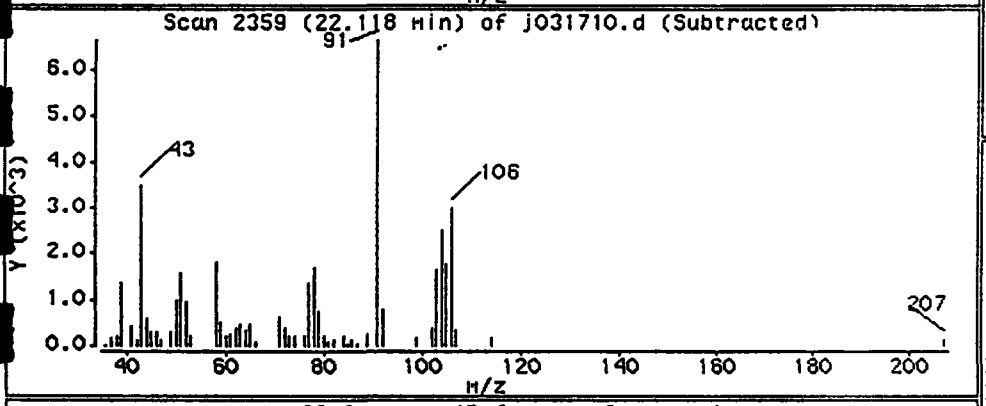
Column phase: RTx-624

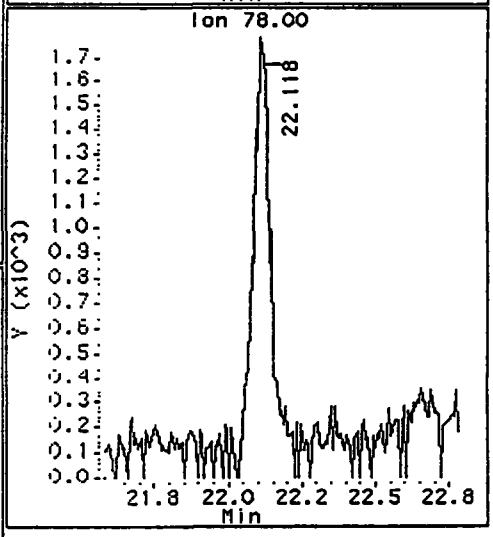
Column diameter: 0.58

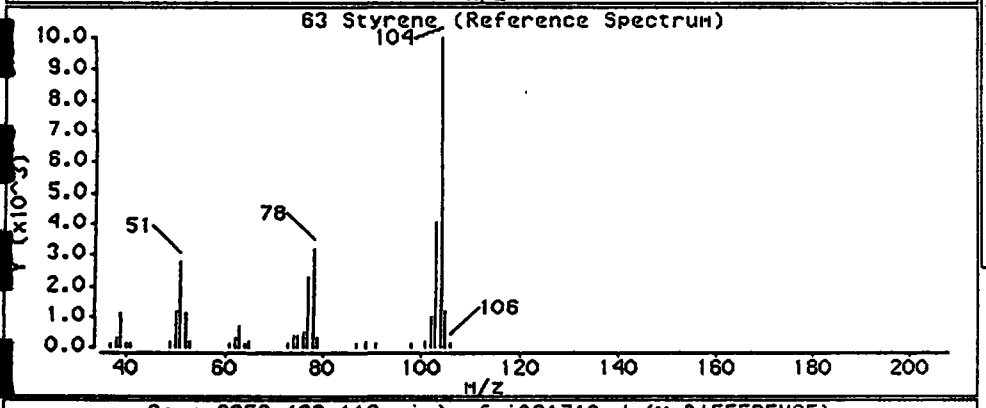
63 Styrene

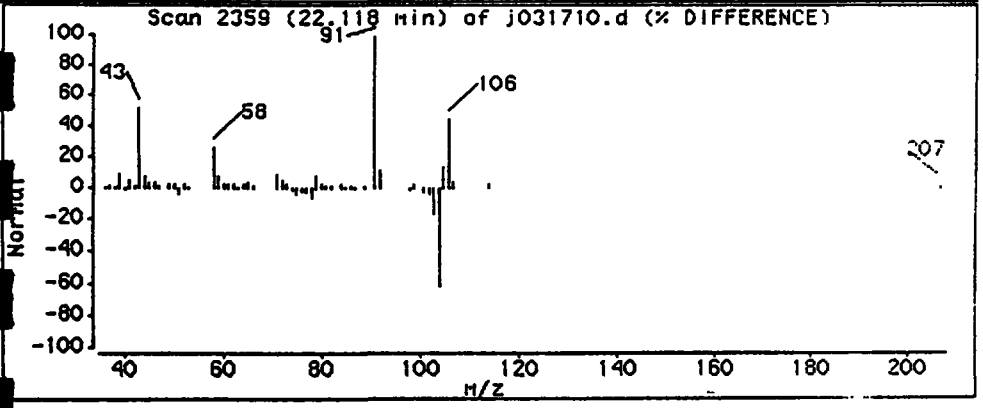










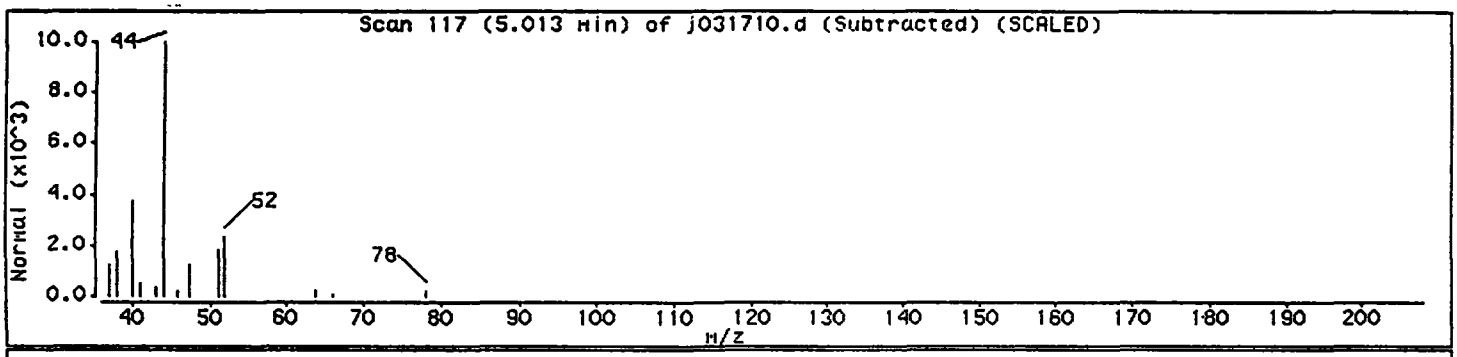


Data File: /chem/msdj.i/j-17mar.b/j031710.d
Date : 17-MAR-1997 15:12
Instrument: msdj.i
Client ID: 03119701
Column phase: RTx-624

Column diameter: 0.58

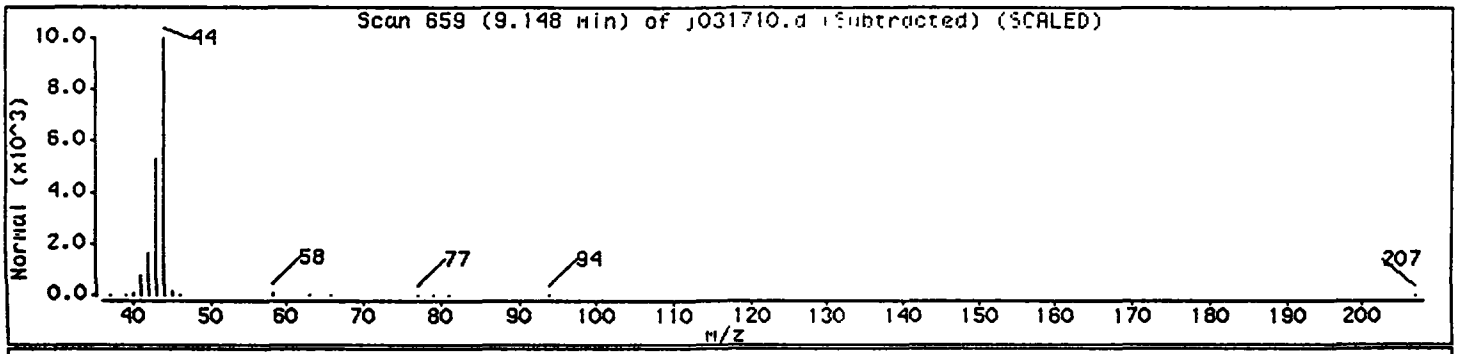
Library Search Compound Match | CAS Number | Library | Lib Entry | Quality

UNKNOWN



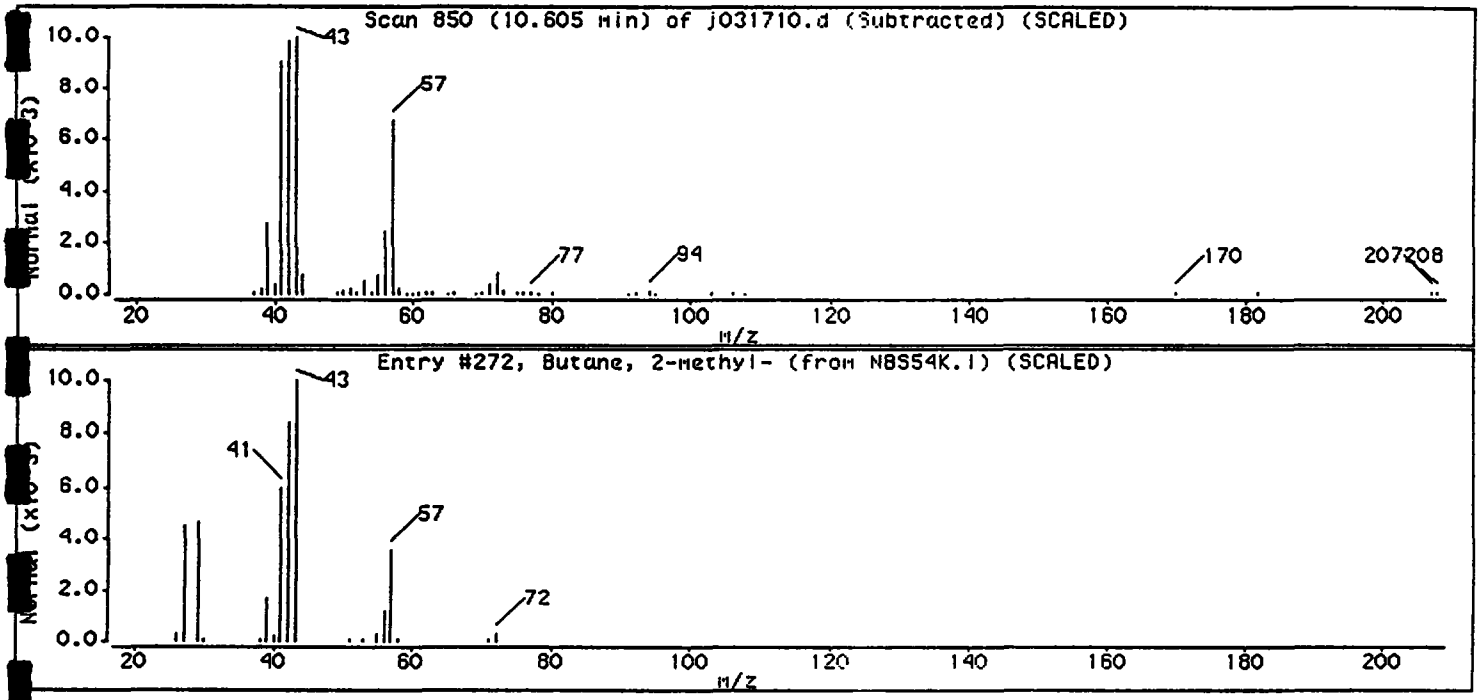
Library Search Compound Match | CAS Number | Library | Lib Entry | Quality

UNKNOWN

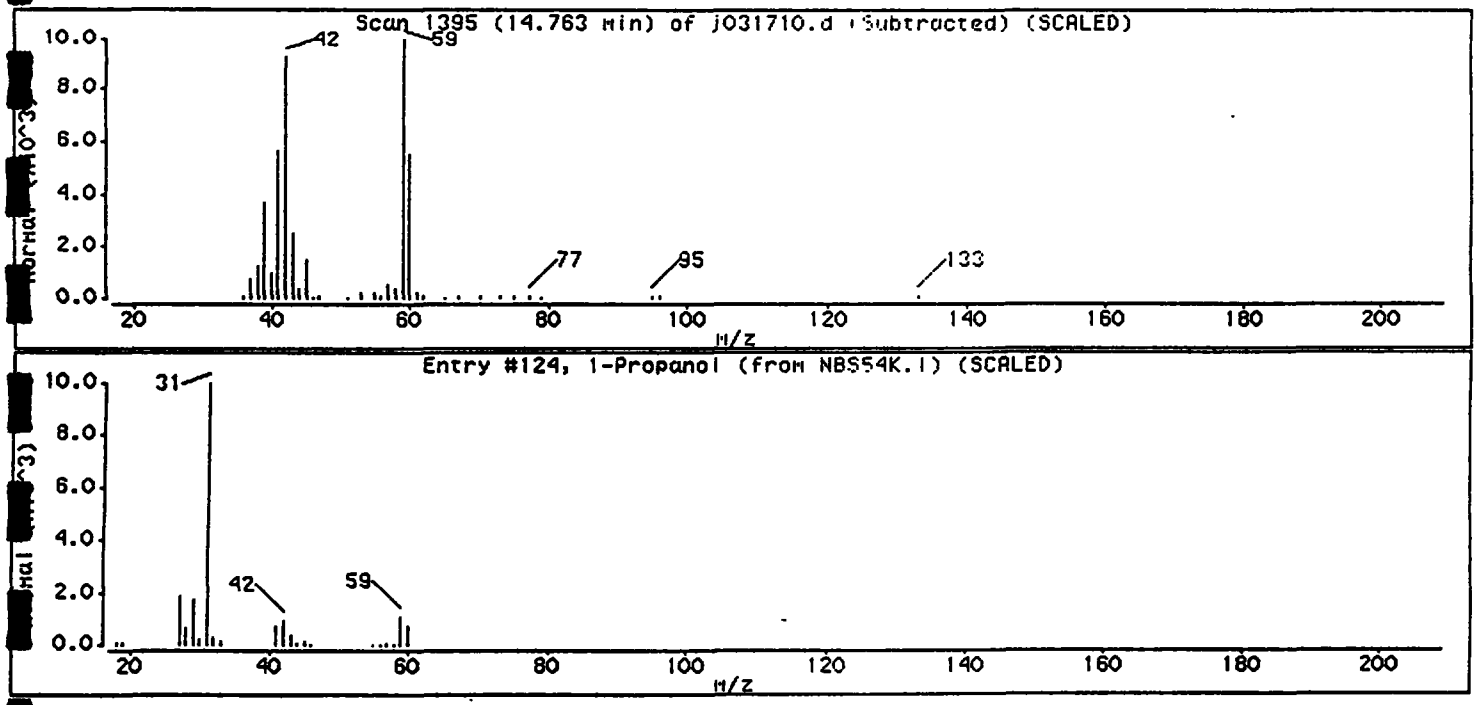


Data File: /chem/msdj.i/j-17mar.b/j031710.d
Date : 17-MAR-1997 15:12
Instrument: msdj.i
Client ID: 031197D1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butane, 2-methyl-	78-78-4	NBS54K.I	272	72

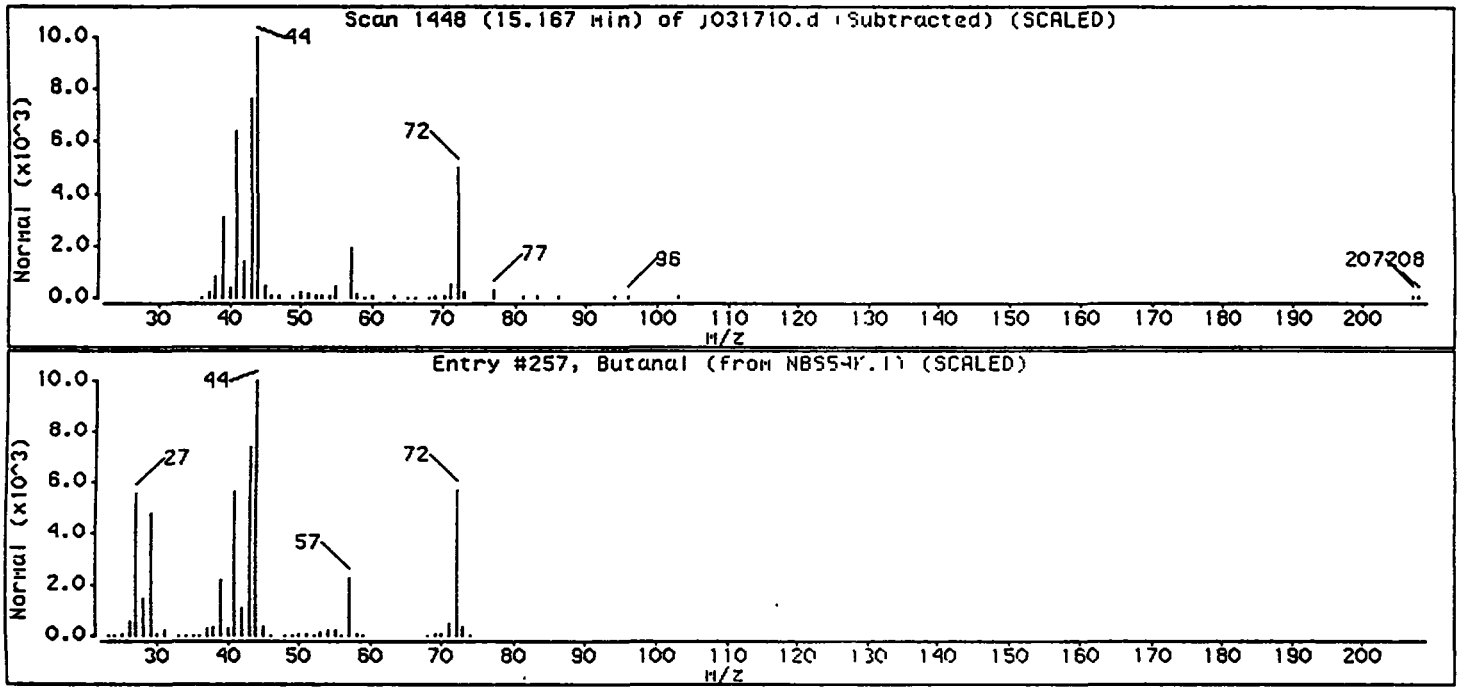


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1-Propanol	71-23-8	NBS54K.I	124	72

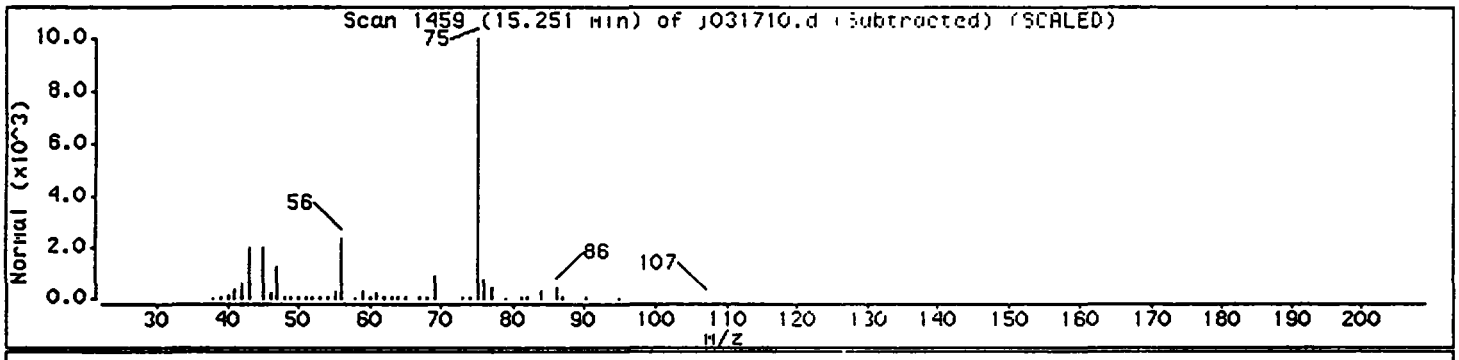


Data File: /chem/msdj.i/j-17mar.b/j031710.d
Date : 17-MAR-1997 15:12
Instrument: msdj.i
Client ID: 031197D1
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanal	123-72-8	NBS54K.I	257	90

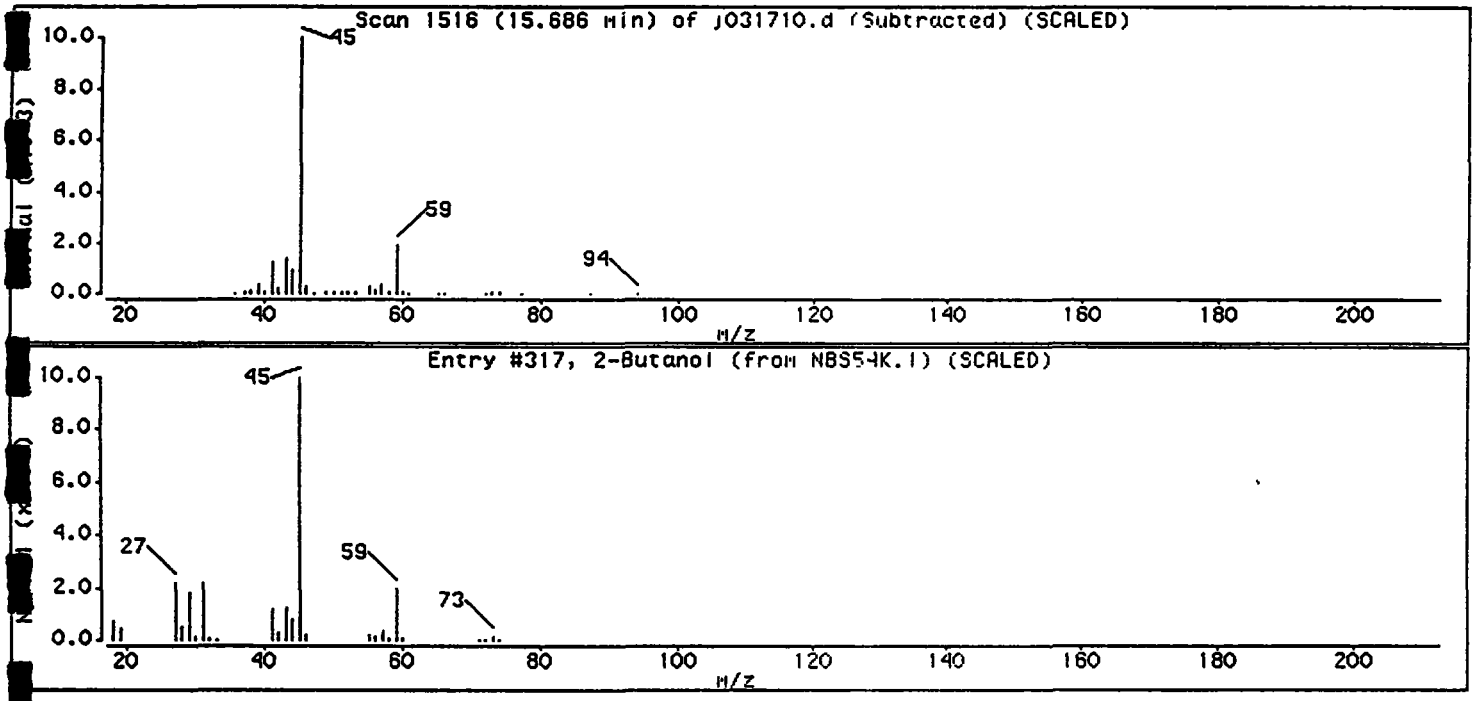


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

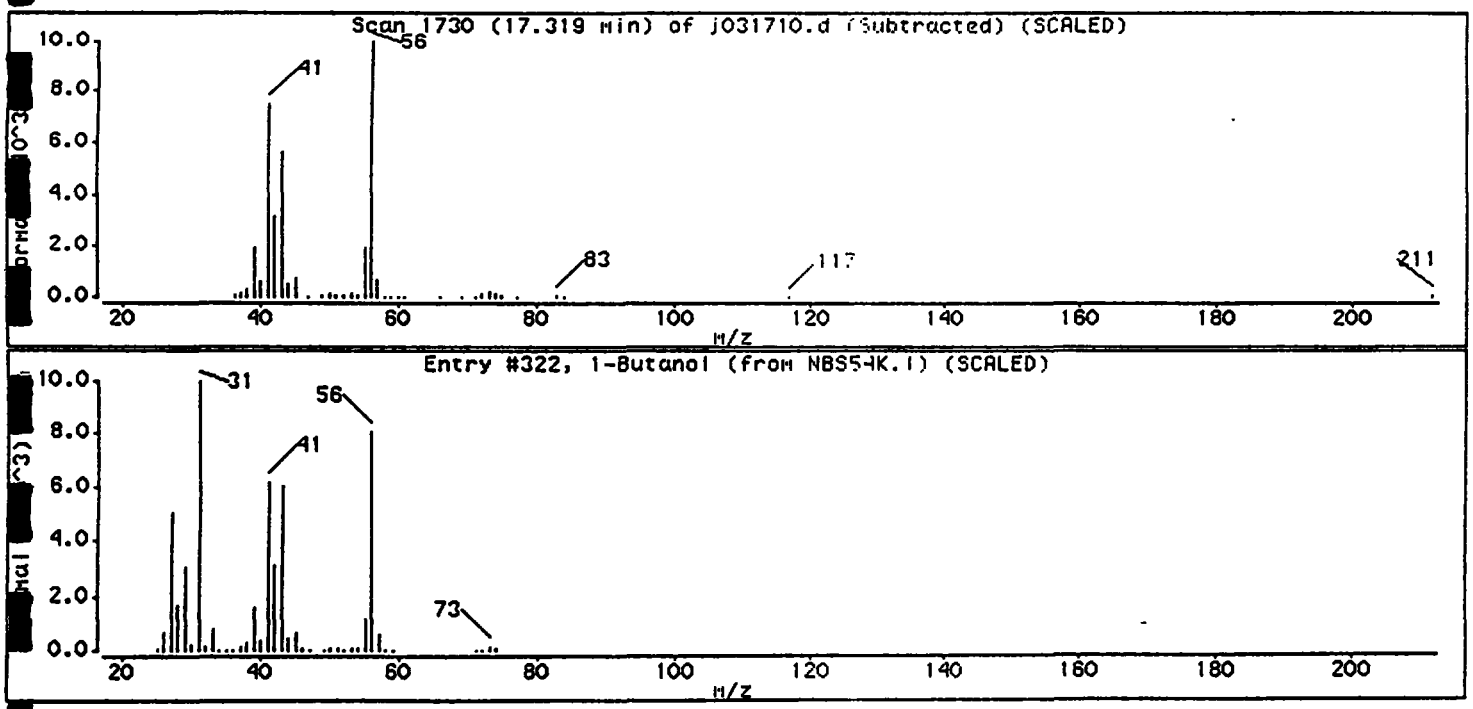


Data File: /chem/msdj.i/j-17mar.b/j031710.d
Date : 17-MAR-1997 15:12
Instrument: msdj.i
Client ID: 031197D1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
2-Butanol	78-92-2	NBS54K.I	317	83

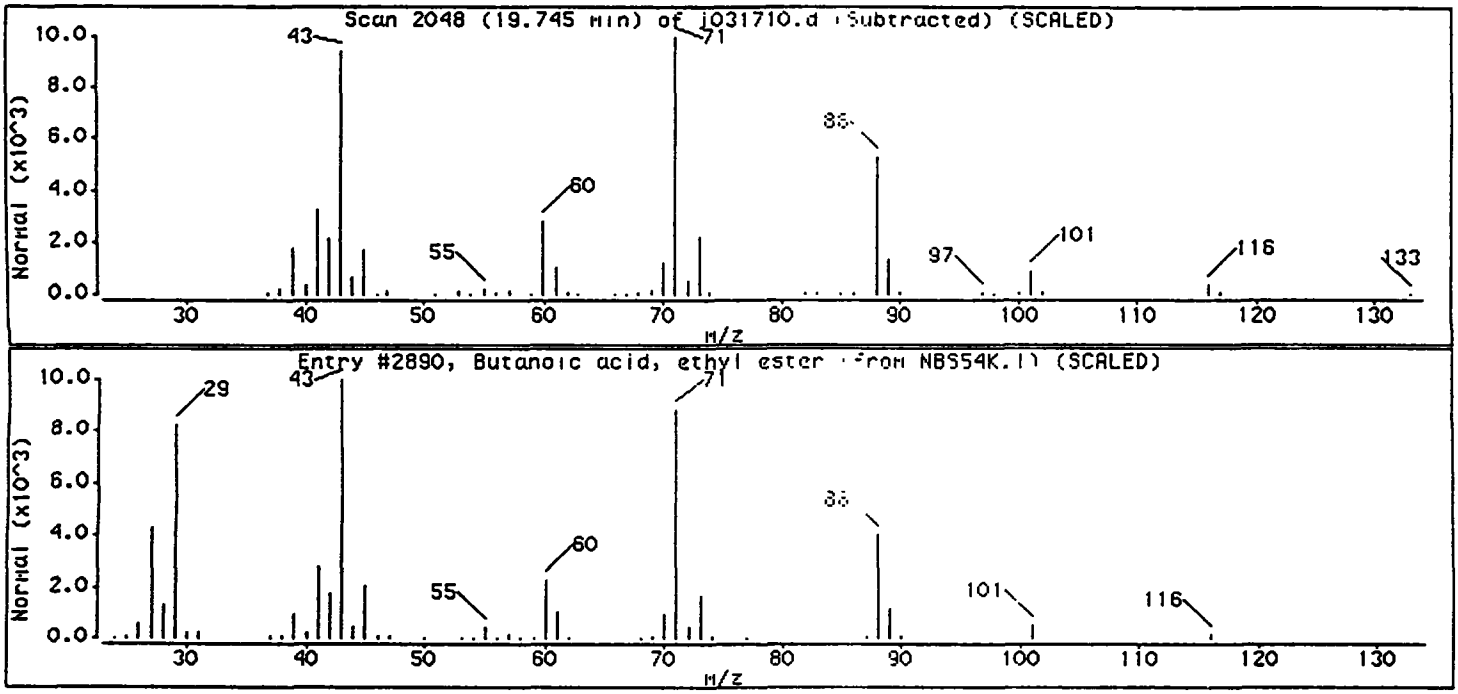


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
1-Butanol	71-36-3	NBS54K.I	322	64

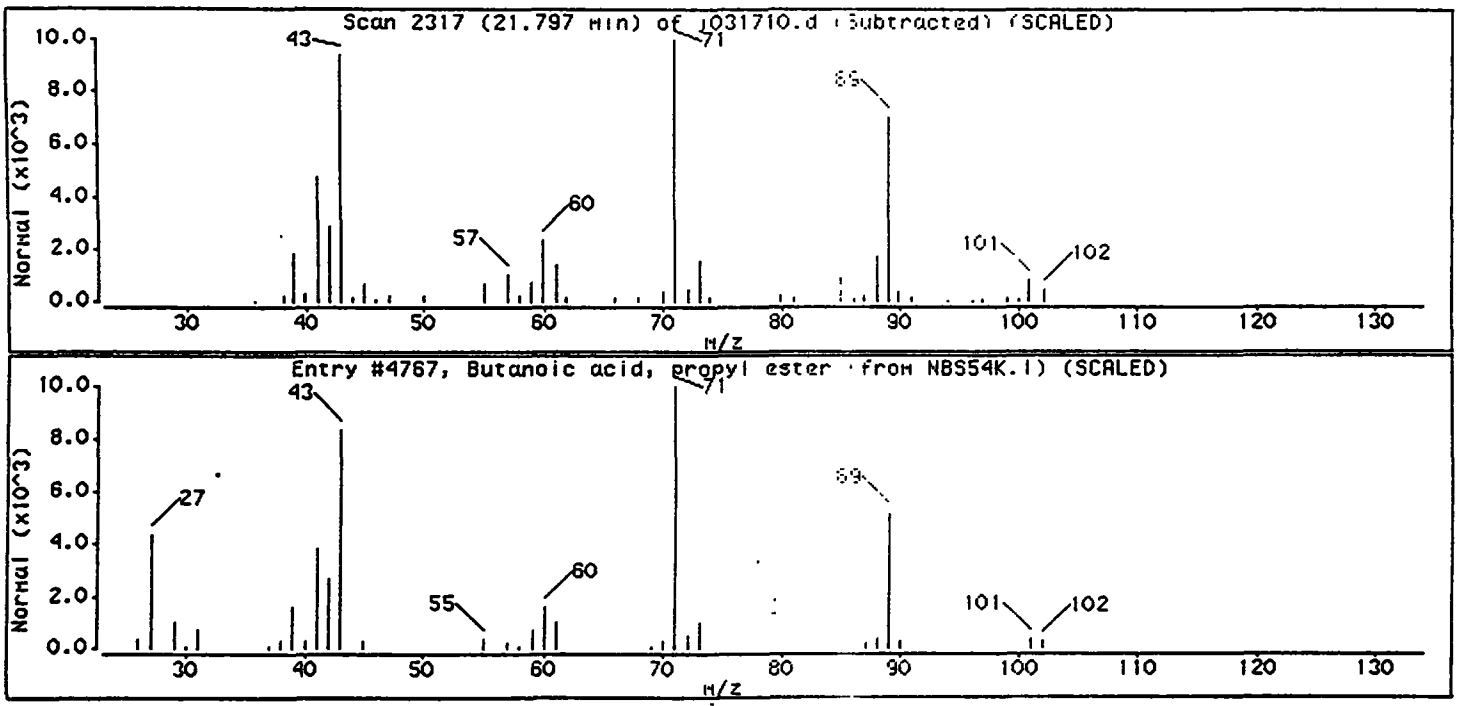


Data File: /chem/msdj.i/j-17mar.b/j031710.d
Date : 17-MAR-1997 15:12
Instrument: msdj.i
Client ID: 031197D1
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanoic acid, ethyl ester	105-54-4	NBS54K.I	2890	72

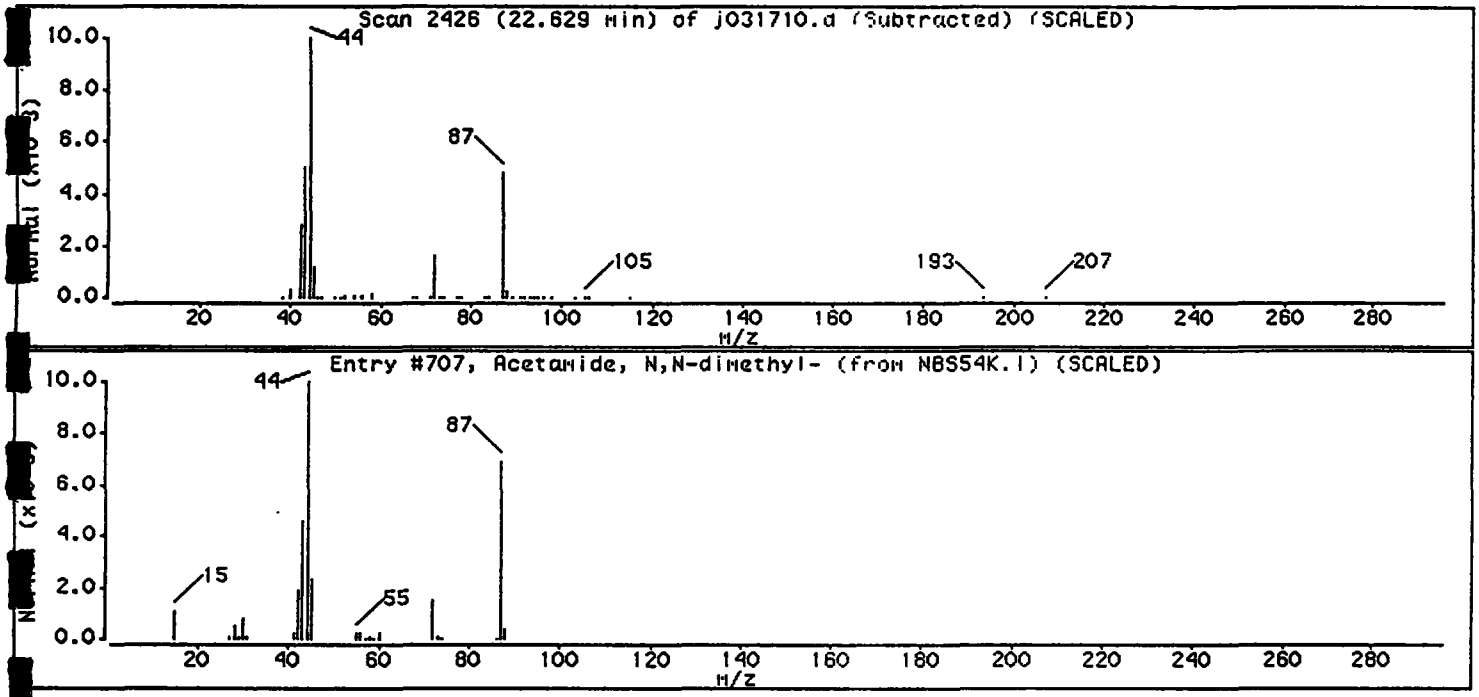


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Butanoic acid, propyl ester	105-66-8	NBS54K.I	4767	64

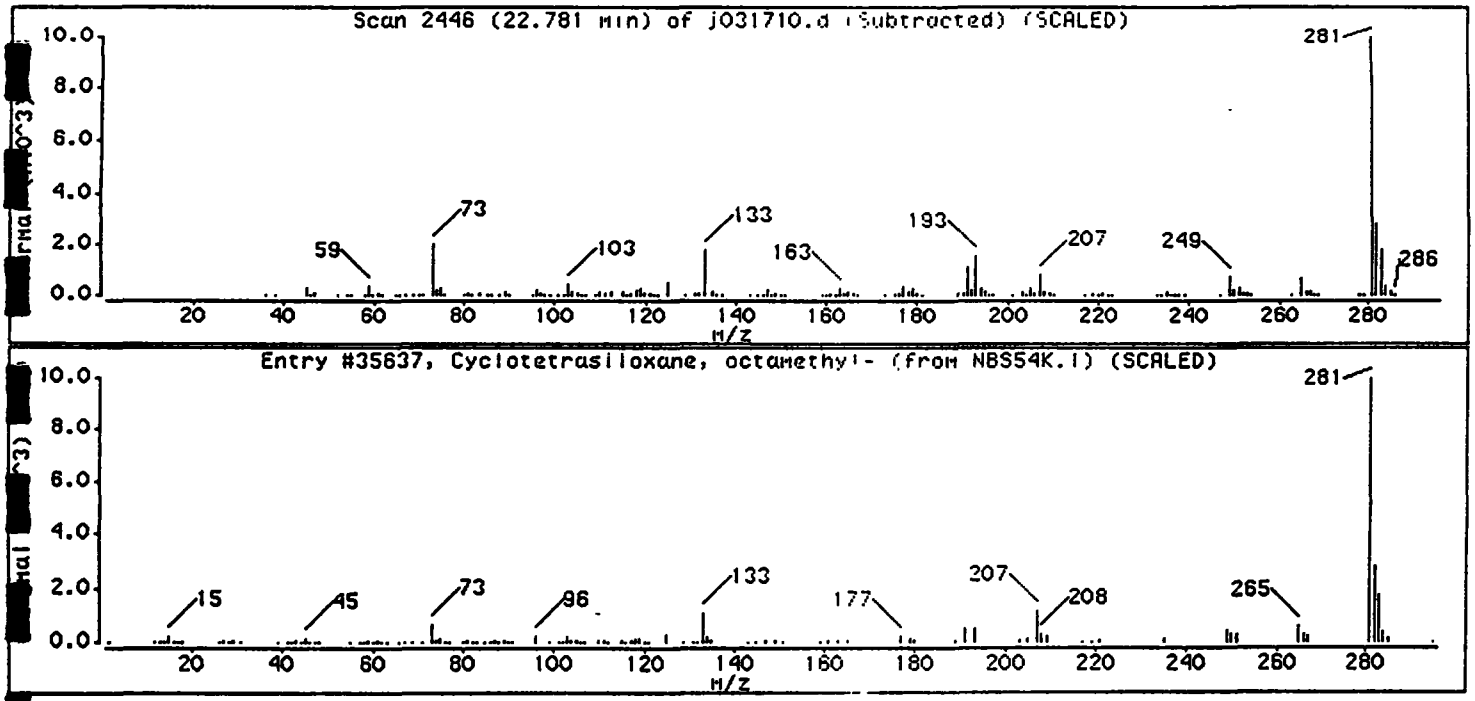


Data File: /chem/msdj.i/j-17mar.b/j031710.d
Date : 17-MAR-1997 15:12
Instrument: msdj.i
Client ID: 0311970I
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetamide, N,N-dimethyl-	127-19-5	NBS54K.I	707	56

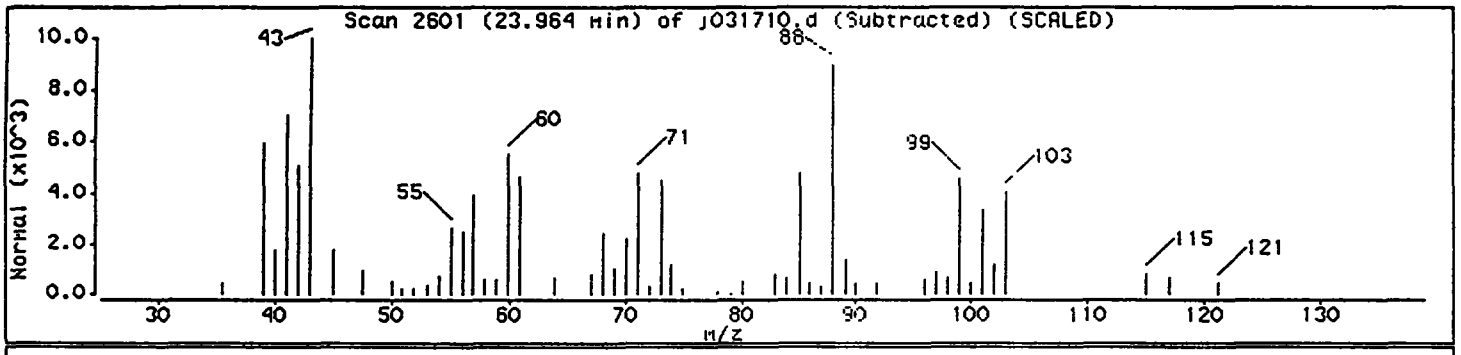


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS54K.I	35637	83

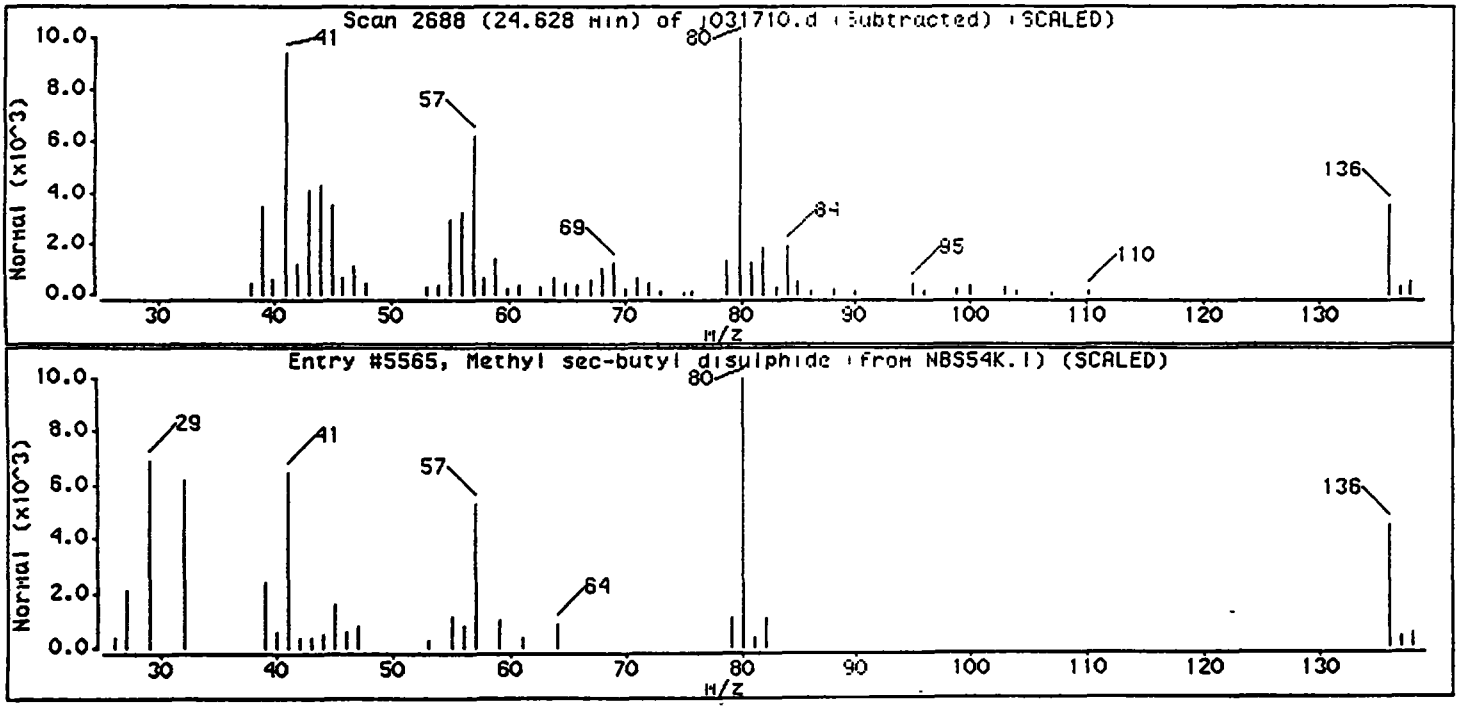


Data File: /chem/msdj.i/j-17mar.b/j031710.d
Date : 17-MAR-1997 15:12
Instrument: msdj.i
Client ID: 03119701
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				

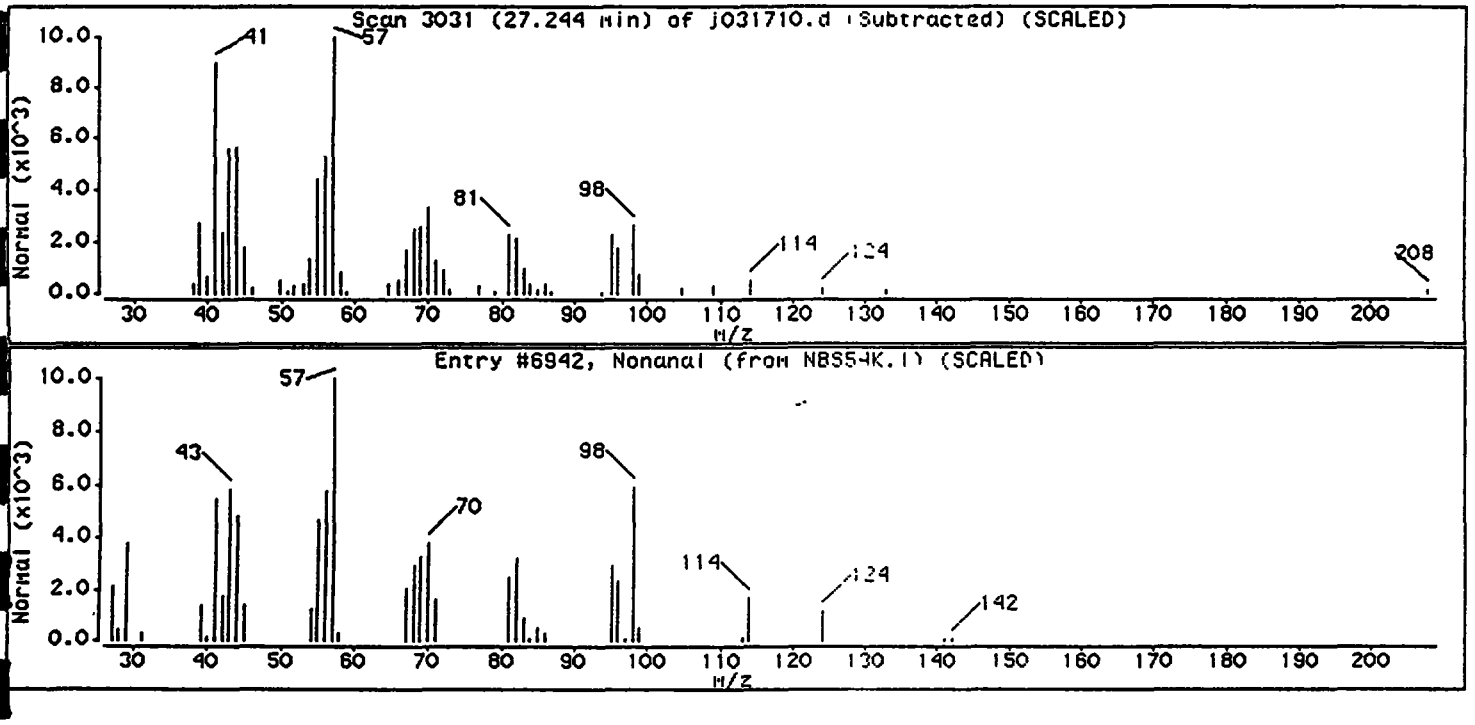


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Methyl sec-butyl disulphide	67421-87-8	NBS54K.I	5565	81



Data File: /chem/msdj.i/j-17mar.b/j031710.d
Date : 17-MAR-1997 15:12
Instrument: msdj.i
Client ID: 03119701
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Nonanal	124-19-6	NBS54K.I	6942	72



Report Date : 09-Jan-1997 14:25 Page 1

Air Toxics Limited

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-97 10:44
End Cal Date : 09-JAN-1997 12:48
Quant Method : ISTD
Origin : Force
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/msdj.i/j-09jan.b/to140109.m
Cal Date : 09-Jan-1997 14:23 fayala
Curve Type : Average

Calibration File Names:
Level 2: /chem/msdj.i/j-09jan.b/j010905.d
Level 3: /chem/msdj.i/j-09jan.b/j010906.d
Level 4: /chem/msdj.i/j-09jan.b/j010907.d
Level 5: /chem/msdj.i/j-09jan.b/j010908.d
Level 6: /chem/msdj.i/j-09jan.b/j010909.d

Compound	0.5000 Level 2	5 Level 3	10 Level 4	25 Level 5	50 Level 6	RRF	% RSD	
1 Propylene	0.79308	0.68716	0.66328	1.07471	0.97050	0.83775	21.427	
6 Dichlorodifluoromethane/FR 12	2.93315	3.02482	2.95409	3.43582	3.23579	3.11673	6.893	
7 Freon 114	2.22430	2.21634	2.20251	2.33267	2.26964	2.24909	2.360	
8 Chloromethane	1.21097	1.29756	1.22782	1.45358	1.36465	1.31092	7.658	
9 Vinyl Chloride	1.35849	1.38630	1.35452	1.45919	1.39207	1.39012	3.021	
10 1,3-Butadiene	1.00120	1.05160	1.02401	1.13941	1.06458	1.05616	4.983	
11 Bromomethane	1.15310	1.12122	1.10518	1.15298	1.24260	1.15502	4.603	
12 Chloroethane	0.89087	0.81099	0.78733	0.76766	0.75192	0.80175	6.798	
13 Vinyl Bromide	*****	*****	*****	*****	*****	*****	*****	<-
14 Trichlorofluoromethane/FR 11	2.92572	3.12915	3.11398	3.12528	3.07652	3.07413	2.782	
15 Ethanol	0.34398	0.53100	0.53857	0.31021	0.32468	0.40969	28.035	
16 Acrolein	*****	*****	*****	*****	*****	*****	*****	<-
17 1,1-Dichloroethene	1.19957	1.24020	1.24330	0.85049	0.82986	1.07269	19.864	
18 Freon 113	1.61922	1.69085	1.68332	1.70465	1.67246	1.67410	1.961	
20 Acetone	2.04650	2.40857	2.36088	1.27516	1.80660	1.97954	23.424	
19 Carbon Disulfide	3.70910	3.81804	3.80469	3.80710	3.76203	3.78019	1.193	
22 2-Propanol	1.83843	2.54131	2.58455	2.69571	2.65392	2.46278	14.379	
21 Acetonitrile	*****	*****	*****	*****	*****	*****	*****	<-
23 Methylene Chloride	1.15640	1.16629	1.14944	1.14506	1.11677	1.14679	1.622	
25 Acrylonitrile	*****	*****	*****	*****	*****	*****	*****	<-
24 trans-1,2-Dichloroethene	1.23119	1.25799	1.27469	1.30959	1.30209	1.27511	2.523	
26 MTBE	3.12518	3.36269	3.39170	3.43749	3.44219	3.35185	3.907	
27 Hexane	2.24699	2.37345	2.34206	2.36200	2.33037	2.33098	2.139	
28 1,1-Dichloroethane	2.31033	2.38615	2.35981	2.42335	2.34145	2.36422	1.822	
30 Vinyl Acetate	2.90308	3.90195	3.94374	4.11653	4.17636	3.80833	13.625	
29 Chloroprene	0.72169	0.84026	0.81546	0.83720	0.82280	0.80749	6.072	
32 2-Butanone	0.45941	0.56283	0.56051	0.58610	0.58984	0.55174	9.657	

FA 1-9-97

MKL 1-10-97

Air Toxics Limited

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-97 10:44
End Cal Date : 09-JAN-1997 12:48
Quant Method : ISTD
Origin : Force
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/msdj.i/j-09jan.b/to140109.m
Cal Date : 09-Jan-1997 14:23 fayala
Curve Type : Average

Compound	0.5000 Level 2	5 Level 3	10 Level 4	25 Level 5	50 Level 6	RRF	% RSD	
31 cis-1,2-Dichloroethene	1.27313	1.34242	1.36752	1.38466	1.38425	1.35039	3.443	
35 Tetrahydrofuran	1.22139	1.30452	1.33778	1.34771	1.34424	1.31113	4.043	
34 Chloroform	2.37578	2.50641	2.51333	2.53491	2.51475	2.48904	2.579	
36 1,1,1-Trichloroethane	2.27582	2.35007	2.32087	2.36039	2.34502	2.33044	1.450	
37 Cyclohexane	2.16405	2.22698	2.18015	2.18465	2.14685	2.18054	1.372	
38 Carbon Tetrachloride	1.52623	1.86312	1.88808	1.94438	1.99956	1.84427	10.055	
40 Benzene	0.91745	0.94993	0.94534	0.97544	0.99807	0.95724	3.210	
41 1,2-Dichloroethane	0.34857	0.37226	0.37308	0.38384	0.39091	0.37373	4.300	
42 Heptane	0.59400	0.65634	0.65381	0.69350	0.69960	0.65945	6.387	
4 Dicyclopentadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
2 Bicycloheptadiene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
44 Trichloroethene	0.33974	0.36019	0.36286	0.37490	0.38702	0.36494	4.841	
45 1,2-Dichloropropane	0.30095	0.33158	0.33155	0.34037	0.34305	0.32950	5.091	
46 1,4-Dioxane	0.14842	0.17420	0.18038	0.19055	0.19912	0.17854	10.837	
47 Bromodichloromethane	0.50922	0.57100	0.58190	0.61115	0.62207	0.57907	7.640	
48 cis-1,3-Dichloropropene	0.13899	0.16138	0.16480	0.17198	0.17593	0.16262	8.856	
3 DMDS	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
49 4-Methyl-2-pentanone	0.63157	0.70911	0.72669	0.74509	0.75025	0.71254	6.749	
52 Octane	0.24123	0.25360	0.25893	0.28812	0.31257	0.27089	10.692	
51 Toluene	0.50929	0.56803	0.56702	0.60262	0.63770	0.57693	8.270	
53 trans-1,3-Dichloropropene	0.56209	0.40863	0.38802	0.39774	0.38286	0.42787	17.686	
54 1,1,2-Trichloroethane	0.35843	0.40656	0.38864	0.39902	0.38934	0.38840	4.716	
56 2-Hexanone	0.69137	0.97265	0.95260	0.99183	0.98288	0.91827	13.904	
55 Tetrachloroethene	0.39373	0.44280	0.43039	0.45117	0.47139	0.43790	6.589	
57 Dibromochloromethane	0.44537	0.54450	0.53521	0.56215	0.56464	0.53037	9.252	
58 1,2-Dibromoethane	0.46390	0.53634	0.51074	0.52934	0.52379	0.51282	5.638	
60 Chlorobenzene	0.79078	0.84965	0.83491	0.89292	0.90073	0.85380	5.264	
61 Ethyl Benzene	0.45419	0.53001	0.51086	0.57535	0.58796	0.53168	10.092	
62 m,p-Xylene	0.42424	0.50760	0.48990	0.56339	0.60391	0.51781	13.355	
63 o-Xylene	0.26877	0.32072	0.30830	0.35113	0.35209	0.32020	10.774	
64 Styrene	0.49831	0.66665	0.66425	0.75757	0.76958	0.67127	16.165	
65 Bromoform	0.19251	0.26325	0.25741	0.27892	0.28956	0.25633	14.774	
67 1,1,2,2-Tetrachloroethane	0.74745	0.84858	0.77533	0.79701	0.77437	0.78855	4.804	
68 4-Ethyltoluene(1)	0.89314	1.03981	1.05639	1.22314	1.17410	1.07732	11.959	
(2)	0.23154	0.26187	0.26843	0.32214	0.30122	0.27704	12.753	

Air Toxics Limited

INITIAL CALIBRATION DATA

Start Cal Date : 09-JAN-97 10:44
End Cal Date : 09-JAN-1997 12:48
Quant Method : ISTD
Origin : Force
Target Version : 3.12
Integrator : HP RTE
Method file : /chem/msdj.i/j-09jan.b/to140109.m
Cal Date : 09-Jan-1997 14:23 fayala
Curve Type : Average

Compound	0.5000 Level 2	5 Level 3	10 Level 4	25 Level 5	50 Level 6	$\overline{RRF}$	% RSD	
69 1,3,5-Trimethylbenzene(1)	0.37581	0.52191	0.51120	0.60695	0.56405	0.51598	16.866	
(2)	0.18938	0.24078	0.23927	0.26082	0.26040	0.23813	12.235	
70 alpha-Methyl Styrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
71 1,2,4-Trimethylbenzene	0.32796	0.41617	0.41030	0.48211	0.46330	0.41997	14.244	
72 1,3-Dichlorobenzene	0.43526	0.52652	0.50311	0.59652	0.59302	0.53089	12.672	
73 1,4-Dichlorobenzene	0.41464	0.51777	0.49948	0.57981	0.57694	0.51773	13.072	
74 Benzyl Chloride	0.70147	0.98722	0.97823	1.18188	1.14885	0.99953	19.048	
75 1,2-Dichlorobenzene	0.39804	0.47189	0.45709	0.53241	0.51562	0.47501	11.139	
5 1,2-Dibromo-3-Chloropropane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	<-
76 1,2,4-Trichlorobenzene	0.16627	0.18587	0.16992	0.23615	0.24548	0.20074	18.664	
77 Hexachlorobutadiene	0.19126	0.20969	0.19172	0.23300	0.23201	0.21154	9.709	
$ 39 Octafluorotoluene	2.20966	2.20467	2.22502	2.41605	2.52799	2.31668	6.363	
$ 50 Toluene-d8	0.88011	0.89757	0.89390	0.92470	0.92760	0.90477	2.276	
$ 66 Bromofluorobenzene	0.78490	0.79243	0.76473	0.77199	0.75735	0.77428	1.855	

Data File: /chem/msdj.i/j-09jan.b/j010905.d
Report Date: 09-Jan-1997 14:21

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010905.d
Lab Smp Id: VSTD0005 Client Smp ID: VSTD0005
Inj Date : 09-JAN-1997 10:04
Operator : FA Inst ID: msdj.i
Smp Info : 2.5ml #296-25 100ppbv (0.5ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:21 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Calibration Sample, Level: 2
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane					CAS #: 74-97-5			
16.689	16.689 (1.000)	130	193877	5.0			100.00	9624(Q)
16.689	16.689 (0.000)	128	43688			27.42- 127.42	22.53	
16.689	16.689 (0.000)	49	99136			125.67- 225.67	51.13	
* 43 1,4-Difluorobenzene					CAS #: 540-36-3			
18.032	18.032 (1.000)	114	850139	5.0			100.00	9792
18.032	18.032 (0.000)	88	47264			0.00- 67.86	5.56	
* 59 Chlorobenzene-d5					CAS #: 3114-55-4			
22.167	22.167 (1.000)	117	656394	5.0			100.00	7253
22.167	22.167 (0.000)	82	103704			10.92- 110.92	15.80	
S 69 Octafluorotoluene					CAS #: 434-64-0			
17.200	17.200 (1.031)	217	428402	5.0	4.8		100.00	9710
17.200	17.200 (0.000)	186	89248			17.99- 117.99	20.83	
S 80 Toluene-d8					CAS #: 2037-26-5			
20.069	20.069 (1.113)	98	748213	5.0	4.9		100.00	9787
20.069	20.069 (0.000)	70	25808			0.00- 61.99	3.45	
20.069	20.069 (0.000)	100	145664			17.70- 117.70	19.47	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
S 66 Bromofluorobenzene					CAS #: 460-00-4			
24.036	24.036 (1.084)	95	515201	5.0	5.1		100.00	9673
24.036	24.036 (0.000)	174	71136			9.51- 109.51	13.81	
24.036	24.036 (0.000)	176	70920			9.33- 109.33	13.77	
1 Propylene					CAS #: 115-07-1			
4.719	4.719 (0.283)	41	15376	0.50	0.47		100.00	7464(M)
4.680	4.680 (0.280)	42	293			0.00- 69.90	1.91	
4.680	4.680 (0.280)	39	566			0.00- 88.45	3.68	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
5.276	5.276 (0.316)	85	56867	0.50	0.47		100.00	8543(M)
5.276	5.276 (0.316)	87	1280			0.00- 81.43	2.25	
7 Freon 114					CAS #: 76-14-2			
7.015	7.015 (0.420)	135	43124	0.50	0.49		100.00	9511
7.015	7.015 (0.000)	137	1213			0.00- 77.56	2.81	
8 Chloromethane					CAS #: 74-87-3			
7.129	7.129 (0.427)	50	23478	0.50	0.46		100.00	8802(Q)
7.129	7.129 (0.000)	52	891			8.12- 108.12	3.80	
9 Vinyl Chloride					CAS #: 75-01-4			
8.236	8.236 (0.493)	62	26338	0.50	0.49		100.00	8364
8.236	8.236 (0.000)	64	745			0.00- 74.69	2.83	
10 1,3-Butadiene					CAS #: 106-99-0			
8.602	8.602 (0.515)	54	19411	0.50	0.47		100.00	9055(Q)
8.602	8.602 (0.000)	39	2676			54.41- 154.41	13.79	
11 Bromomethane					CAS #: 74-83-9			
10.151	10.151 (0.608)	94	22356	0.50	0.50		100.00	9050(Q)
10.151	10.151 (0.000)	96	2707			30.09- 130.09	12.11	
12 Chloroethane					CAS #: 75-00-3			
10.753	10.753 (0.644)	64	17272	0.50	0.56		100.00	8945
10.753	10.753 (0.000)	66	1021			0.00- 82.41	5.91	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
11.730	11.730 (0.703)	101	56723	0.50	0.48		100.00	9577
11.730	11.730 (0.000)	103	8089			13.40- 113.40	14.26	
15 Ethanol					CAS #: 64-17-5			
12.943	12.943 (0.776)	45	6669	0.50	0.42		100.00	(M)
12.897	12.897 (0.773)	46	664			0.00- 59.96	9.96	
12.714	12.714 (0.762)	43	507			0.00- 57.60	7.60	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.149	13.149 (0.788)	96	23257	0.50	0.56		100.00	9392(Q)

Data File: /chem/msdj.i/j-09jan.b/j010905.d
Report Date: 09-Jan-1997 14:21

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)									
13.149	13.149	(0.000)	61	10406			115.70- 215.70	44.74	
13.149	13.149	(0.000)	98	4000			13.69- 113.69	17.20	
18 Freon 113						CAS #: 76-13-1			
13.225	13.225	(0.792)	151	31393	0.50	0.48		100.00	9203(Q)
13.225	13.225	(0.000)	153	4874			16.69- 116.69	15.53	
13.225	13.225	(0.000)	101	12289			118.16- 218.16	39.15	
19 Carbon Disulfide						CAS #: 75-15-0			
13.530	13.530	(0.811)	76	71911	0.50	0.49		100.00	8000
20 Acetone						CAS #: 67-64-1			
13.446	13.446	(0.806)	43	39677	0.50	0.52		100.00	
13.446	13.446	(0.806)	58	13203			0.00- 83.28	33.28	
22 2-Propanol						CAS #: 67-63-0			
13.889	13.889	(0.832)	45	35643	0.50	0.37		100.00	7225
13.889	13.889	(0.000)	43	1230			0.00- 68.22	3.45	
13.889	13.889	(0.000)	59	329			0.00- 54.87	0.92	
23 Methylene Chloride						CAS #: 75-09-2			
14.240	14.240	(0.853)	84	22620	0.50	0.50		100.00	9691(Q)
14.240	14.240	(0.000)	49	8120			92.41- 192.41	36.22	
14.240	14.240	(0.000)	51	2590			0.00- 95.42	11.55	
24 trans-1,2-Dichloroethene						CAS #: 156-60-5			
14.736	14.736	(0.883)	96	23870	0.50	0.48		100.00	9422(Q)
14.736	14.736	(0.000)	61	8906			75.67- 175.67	37.31	
14.736	14.736	(0.000)	98	3813			3.80- 103.80	15.97	
26 MTBE						CAS #: 1634-04-4			
14.728	14.728	(0.882)	73	60590	0.50	0.47		100.00	6412
14.728	14.728	(0.000)	57	3341			0.00- 71.27	5.51	
14.728	14.728	(0.000)	41	4569			0.00- 79.08	7.54	
27 Hexane						CAS #: 110-54-3			
15.163	15.163	(0.909)	57	43564	0.50	0.48		100.00	7239(aQ)
15.163	15.163	(0.000)	43	9334			22.17- 122.17	21.43	
15.163	15.163	(0.000)	56	7065			4.62- 104.62	16.22	
28 1,1-Dichloroethane						CAS #: 75-34-3			
15.430	15.430	(0.925)	63	44792	0.50	0.49		100.00	9576
15.430	15.430	(0.000)	65	4252			0.00- 82.86	9.49	
29 Chloroprene						CAS #: 126-99-8			
15.560	15.560	(0.932)	53	13992	0.50	0.45		100.00	7903
15.560	15.560	(0.000)	88	1618			0.00- 92.08	11.56	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.560	15.560 (0.000)	50	1070			0.00- 77.83	7.65	
30 Vinyl Acetate					CAS #: 108-05-4			
15.514	15.514 (0.930)	43	56284	0.50	0.38		100.00	5917(a)
15.514	15.514 (0.000)	86	992			0.00- 57.95	1.76	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.338	16.338 (0.979)	96	24683	0.50	0.47		100.00	9101(Q)
16.338	16.338 (0.000)	61	8551			70.56- 170.56	34.64	
16.338	16.338 (0.000)	98	4091			7.68- 107.68	16.57	
32 2-Butanone					CAS #: 78-93-3			
16.323	16.323 (0.978)	72	8907	0.50	0.42		100.00	7766(Q)
16.323	16.323 (0.000)	43	9821			345.05- 445.05	110.26	
16.323	16.323 (0.000)	57	618			0.00- 74.86	6.94	
34 Chloroform					CAS #: 67-66-3			
16.773	16.773 (1.005)	83	46061	0.50	0.48		100.00	8125
16.773	16.773 (0.000)	85	8585			10.95- 110.95	18.64	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.765	16.765 (1.005)	42	23680	0.50	0.46		100.00	7333
16.765	16.765 (0.000)	71	1794			0.00- 80.76	7.58	
16.765	16.765 (0.000)	72	2198			0.00- 87.69	9.28	
36 1,1,1-Trichloroethane					CAS #: 71-55-6			
17.055	17.055 (1.022)	97	44123	0.50	0.49		100.00	9537
17.055	17.055 (0.000)	99	8065			13.75- 113.75	18.28	
37 Cyclohexane					CAS #: 110-82-7			
17.139	17.139 (1.027)	56	41956	0.50	0.50		100.00	8184(Q)
17.139	17.139 (0.000)	84	8572			23.41- 123.41	20.43	
17.139	17.139 (0.000)	41	7796			16.76- 116.76	18.58	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.307	17.307 (1.037)	119	29590	0.50	0.41		100.00	6991
17.307	17.307 (0.000)	117	0			0.00- 50.00	0.00	
40 Benzene					CAS #: 71-43-2			
17.589	17.589 (0.975)	78	77996	0.50	0.48		100.00	9700
17.589	17.589 (0.000)	77	5151			0.00- 73.23	6.60	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.589	17.589 (0.975)	62	29633	0.50	0.47		100.00	8187
17.589	17.589 (0.000)	64	2769			0.00- 82.52	9.34	
42 Heptane					CAS #: 142-82-5			
17.810	17.810 (0.988)	43	50498	0.50	0.45		100.00	7604

Data File: /chem/msdj.i/j-09jan.b/j010905.d
Report Date: 09-Jan-1997 14:21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.810	17.810 (0.000)	57	8398			2.54- 102.54	16.63	
17.810	17.810 (0.000)	71	7675			0.00- 98.02	15.20	
44 Trichloroethene					CAS #: 79-01-6			
18.428	18.428 (1.022)	95	28883	0.50	0.46		100.00	7831(Q)
18.428	18.428 (0.000)	130	6035			24.68- 124.68	20.89	
18.428	18.428 (0.000)	97	4905			10.70- 110.70	16.98	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.741	18.741 (1.039)	63	25585	0.50	0.46		100.00	9515(Q)
18.741	18.741 (0.000)	62	4967			20.77- 120.77	19.41	
18.741	18.741 (0.000)	41	4996			21.18- 121.18	19.53	
46 1,4-Dioxane					CAS #: 123-91-1			
18.901	18.901 (1.048)	88	12618	0.50	0.42		100.00	8935
18.901	18.901 (0.000)	58	2294			15.56- 115.56	18.18	
18.901	18.901 (0.000)	57	975			0.00- 77.87	7.73	
47 Bromodichloromethane					CAS #: 75-27-4			
19.092	19.092 (1.059)	83	43291	0.50	0.44		100.00	9237
19.092	19.092 (0.000)	85	7151			9.04- 109.04	16.52	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.687	19.687 (1.092)	75	17015	0.72	0.62		100.00	9191
19.687	19.687 (0.000)	77	1764			0.00- 91.71	10.37	
19.687	19.687 (0.000)	39	2217			2.42- 102.42	13.03	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.802	19.802 (1.098)	43	53692	0.50	0.44		100.00	9481
19.802	19.802 (0.000)	58	5680			0.00- 87.30	10.58	
19.802	19.802 (0.000)	85	1907			0.00- 62.52	3.55	
51 Toluene					CAS #: 108-88-3			
20.168	20.168 (1.118)	92	43297	0.50	0.44		100.00	8444(Q)
20.168	20.168 (0.000)	91	22089			132.99- 232.99	51.02	
52 Octane					CAS #: 111-65-9			
20.152	20.152 (1.118)	57	20508	0.50	0.44		100.00	7415(Q)
20.152	20.152 (0.000)	85	6379			45.68- 145.68	31.10	
20.152	20.152 (0.000)	43	15346			180.18- 280.18	74.83	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.381	20.381 (0.919)	75	7579	0.10	0.13		100.00	4065
20.381	20.381 (0.000)	77	171			0.00- 60.23	2.32	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.687	20.687 (0.933)	97	23527	0.50	0.46		100.00	9685(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.687	20.687 (0.000)	99	3870			8.34- 108.34	16.45	
20.687	20.687 (0.000)	83	5623			34.77- 134.77	23.90	
55 Tetrachloroethene					CAS #: 127-18-4			
20.954	20.954 (0.945)	166	25844	0.50	0.45		100.00	8606(Q)
20.954	20.954 (0.000)	129	5624			25.01- 125.01	21.76	
20.954	20.954 (0.000)	131	5443			22.59- 122.59	21.06	
56 2-Hexanone					CAS #: 591-78-6			
20.923	20.923 (0.944)	43	45381	0.50	0.38		100.00	8349
20.923	20.923 (0.000)	58	6457			5.10- 105.10	14.23	
20.923	20.923 (0.000)	100	1108			0.00- 59.45	2.44	
57 Dibromochloromethane					CAS #: 124-48-1			
21.297	21.297 (0.961)	129	29234	0.50	0.42		100.00	8135
21.297	21.297 (0.000)	208	191			0.00- 52.39	0.65	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.518	21.518 (0.971)	107	30450	0.50	0.45		100.00	9568(Q)
21.518	21.518 (0.000)	109	6565			34.81- 134.81	21.56	
60 Chlorobenzene					CAS #: 108-90-7			
22.220	22.220 (1.002)	112	51906	0.50	0.46		100.00	8814
22.220	22.220 (0.000)	114	4471			0.00- 82.51	8.61	
22.220	22.220 (0.000)	77	7504			4.56- 104.56	14.46	
61 Ethyl Benzene					CAS #: 100-41-4			
22.296	22.296 (1.006)	106	29813	0.50	0.43		100.00	
22.296	22.296 (1.006)	91	103451			297.00- 397.00	347.00	
62 m,p-Xylene					CAS #: 108-38-3			
22.457	22.457 (1.013)	106	55694	1.0	0.82		100.00	
22.457	22.457 (1.013)	91	120203			165.83- 265.83	215.83	
63 o-Xylene					CAS #: 95-47-6			
23.136	23.136 (1.044)	106	17642	0.50	0.42		100.00	9410(Q)
23.136	23.136 (0.000)	91	8283			134.56- 234.56	46.95	
64 Styrene					CAS #: 100-42-5			
23.143	23.143 (1.044)	104	32709	0.50	0.37		100.00	9444
23.143	23.143 (0.000)	78	3633			0.00- 95.19	11.11	
65 Bromoform					CAS #: 75-25-2			
23.563	23.563 (1.063)	171	12636	0.50	0.38		100.00	8554(Q)
23.563	23.563 (0.000)	173	5870			146.98- 246.98	46.45	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.181	24.181 (1.091)	83	49062	0.50	0.47		100.00	8028

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)									
.181	24.181	(0.000)	85	6781			12.99- 112.99	13.82	
68 4-Ethyltoluene						CAS #: 622-96-8			
.585	24.585	(1.109)	105	58625	0.50	0.41		100.00	9412(M)
.593	24.593	(1.109)	120	15198	0.50	0.42	0.00- 77.10	25.92	
69 1,3,5-Trimethylbenzene						CAS #: 108-67-8			
.684	24.684	(1.114)	105	24668	0.50	0.36		100.00	7605(QMH)
24.684	24.684	(1.114)	120	12431	0.50	0.40	106.21- 206.21	50.39	
71 1,2,4-Trimethylbenzene						CAS #: 95-63-6			
.440	25.440	(1.148)	105	21527	0.50	0.39		100.00	8355
25.440	25.440	(0.000)	120	2059			0.00- 91.22	9.56	
72 1,3-Dichlorobenzene						CAS #: 541-73-1			
.172	26.172	(1.181)	146	28570	0.50	0.41		100.00	
26.164	26.164	(1.180)	148	18554			14.94- 114.94	64.94	
.172	26.172	(1.181)	111	14543			0.90- 100.90	50.90	
73 1,4-Dichlorobenzene						CAS #: 106-46-7			
26.332	26.332	(1.188)	146	27217	0.50	0.40		100.00	
.355	26.355	(1.189)	148	16966			12.34- 112.34	62.34	
.340	26.340	(1.188)	111	13202			0.00- 98.51	48.51	
74 Benzyl Chloride						CAS #: 100-44-7			
.584	26.584	(1.199)	91	46044	0.50	0.35		100.00	8814
.584	26.584	(0.000)	126	1452			0.00- 66.13	3.15	
75 1,2-Dichlorobenzene						CAS #: 95-50-1			
.225	27.225	(1.228)	146	26127	0.50	0.42		100.00	9213
.225	27.225	(0.000)	148	3024			10.67- 110.67	11.57	
27.225	27.225	(0.000)	111	1788			0.00- 85.87	6.84	
76 1,2,4-Trichlorobenzene						CAS #: 120-82-1			
.619	31.619	(1.426)	180	10914	0.50	0.41		100.00	9082(Q)
31.619	31.619	(0.000)	182	1603			32.25- 132.25	14.69	
77 Hexachlorobutadiene						CAS #: 87-68-3			
32.031	32.031	(1.445)	225	12554	0.50	0.45		100.00	8791
32.031	32.031	(0.000)	223	1306			8.04- 108.04	10.40	

QC Flag Legend

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

Data File: /chem/msdj.i/j-09jan.b/j010905.d
Report Date: 09-Jan-1997 14:21

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010905.d
Report Date: 09-Jan-1997 12:09

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

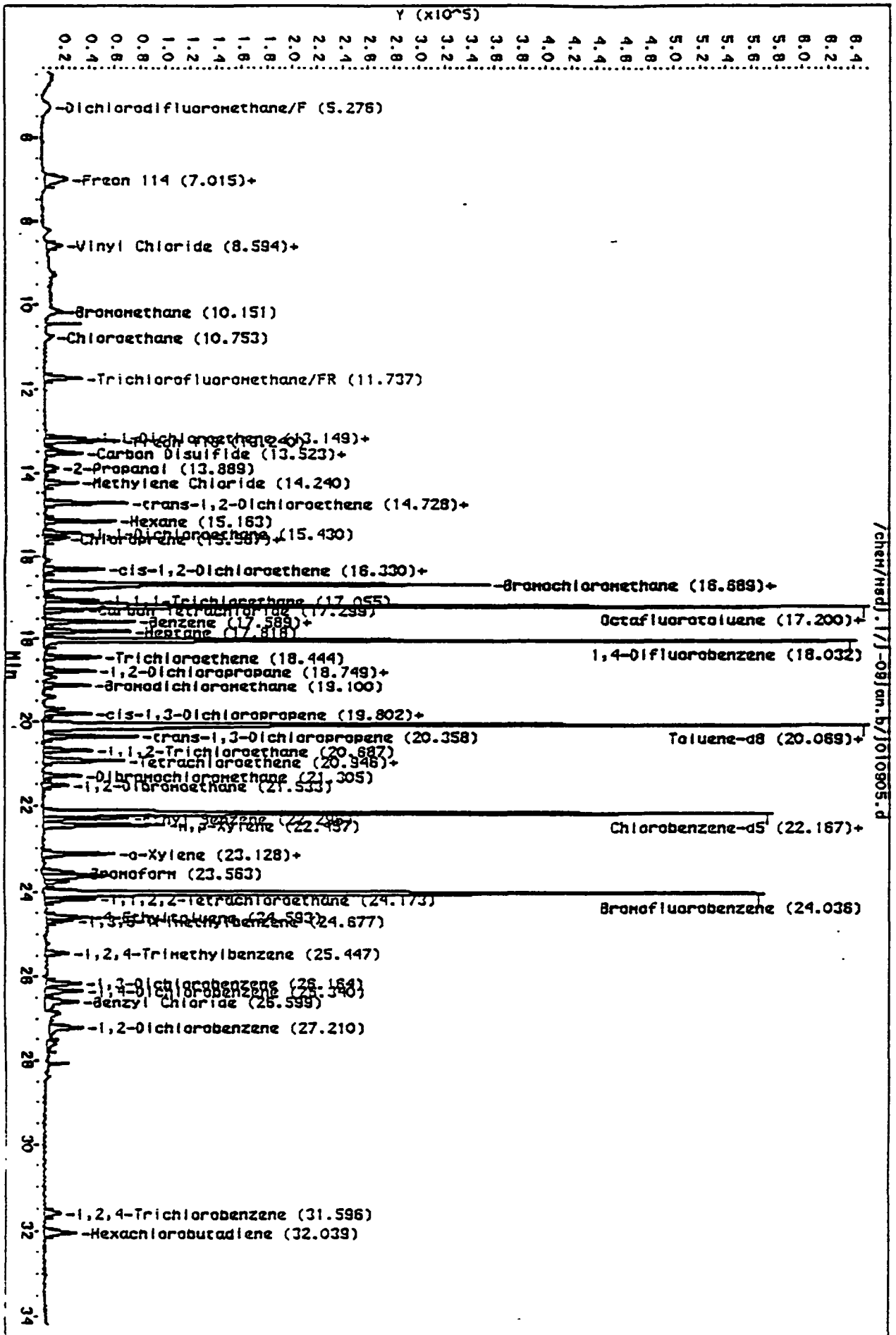
Instrument ID: msdj.i
Lab File ID: j010905.d
Lab Smp Id: VSTD0005
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD0005
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	193877	0.92
43 1,4-Difluorobenzene	832855	499713	1165997	850139	2.08
59 Chlorobenzene-d5	625059	375035	875083	656394	5.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.69	-0.02
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.03	-0.01
59 Chlorobenzene-d5	22.16	21.66	22.66	22.17	0.02

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.



Data File: /chem/hsdj.1/j-09jan.b/j010905.d
Date : 09-JAN-1997 10:04
Client ID: V91D0005
Sample Info: 2.5ml #298-25 100ppbv (0.5ppbv)

Column phase: RTx-624

/chem/hsdj.1/j-09jan.b/j010905.d

Instrument: hsdj.1

Operator: FA
Column diameter: 0.58

Data File: /chem/msdj.i/j-09jan.b/j010906.d
Report Date: 09-Jan-1997 14:16

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010906.d
Lab Smp Id: VSTD005 Client Smp ID: VSTD005
Inj Date : 09-JAN-1997 10:44
Operator : FA Inst ID: msdj.i
Smp Info : 25.0ml #296-25 100ppbv (5.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:16 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:08 Cal File: j010908.d
Als bottle: 1 Calibration Sample, Level: 3
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS. CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane					CAS #: 74-97-5			
16.691	16.691 (1.000)	130	192118	5.0			100.00	9568(Q)
16.691	16.691 (0.000)	128	44008			27.84- 127.84	22.91	
16.691	16.691 (0.000)	49	104608			135.03- 235.03	54.45	
* 43 1,4-Difluorobenzene					CAS #: 540-36-3			
18.034	18.034 (1.000)	114	832855	5.0			100.00	9727
18.034	18.034 (0.000)	88	44176			0.00- 67.42	5.30	
* 59 Chlorobenzene-d5					CAS #: 3114-55-4			
22.162	22.162 (1.000)	117	625059	5.0			100.00	7743
22.162	22.162 (0.000)	82	147072			23.02- 123.02	23.53	
69 Octafluorotoluene					CAS #: 434-64-0			
17.210	17.210 (1.031)	217	423557	5.0	4.8		100.00	9824
17.210	17.210 (0.000)	186	85760			14.15- 114.15	20.25	
80 Toluene-d8					CAS #: 2037-26-5			
20.071	20.071 (1.113)	98	747546	5.0	5.0		100.00	9758
20.071	20.071 (0.000)	70	27300			0.00- 62.71	3.65	
20.071	20.071 (0.000)	100	139904			15.16- 115.16	18.72	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 66 Bromofluorobenzene					CAS #: 460-00-4			
24.038	24.038 (1.085)	95	495314	5.0	5.1		100.00	9690
24.038	24.038 (0.000)	174	71272			10.63- 110.63	14.39	
24.038	24.038 (0.000)	176	66416			6.50- 106.50	13.41	
1 Propylene					CAS #: 115-07-1			
4.683	4.683 (0.281)	41	132016	5.0	4.1		100.00	7657(Q)
4.683	4.683 (0.000)	42	6001			10.63- 110.63	4.55	
4.683	4.683 (0.000)	39	6312			13.77- 113.77	4.78	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
5.263	5.263 (0.315)	85	581123	5.0	4.8		100.00	9571
5.263	5.263 (0.000)	87	12882			0.00- 81.97	2.22	
7 Freon 114					CAS #: 76-14-2			
7.018	7.018 (0.420)	135	425798	5.0	4.9		100.00	9745
7.018	7.018 (0.000)	137	13045			0.00- 82.14	3.06	
8 Chloromethane					CAS #: 74-87-3			
7.140	7.140 (0.428)	50	249285	5.0	4.9		100.00	9498
7.140	7.140 (0.000)	52	5860			0.00- 87.12	2.35	
9 Vinyl Chloride					CAS #: 75-01-4			
8.246	8.246 (0.494)	62	266334	5.0	5.0		100.00	9534
8.246	8.246 (0.000)	64	7965			0.00- 77.24	2.99	
10 1,3-Butadiene					CAS #: 106-99-0			
8.589	8.589 (0.515)	54	202031	5.0	5.0		100.00	9778(Q)
8.589	8.589 (0.000)	39	31153			48.46- 148.46	15.42	
11 Bromomethane					CAS #: 74-83-9			
10.161	10.161 (0.609)	94	215407	5.0	4.8		100.00	9526(Q)
10.161	10.161 (0.000)	96	36192			48.31- 148.31	16.80	
12 Chloroethane					CAS #: 75-00-3			
10.741	10.741 (0.643)	64	155805	5.0	5.0		100.00	9645
10.741	10.741 (0.000)	66	9294			0.00- 81.47	5.97	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
11.717	11.717 (0.702)	101	601167	5.0	5.1		100.00	9840
11.717	11.717 (0.000)	103	82176			11.64- 111.64	13.67	
15 Ethanol					CAS #: 64-17-5			
12.747	12.747 (0.764)	45	102015	5.0	6.5		100.00	(H)
12.747	12.747 (0.764)	46	42245			0.00- 91.41	41.41	
12.747	12.747 (0.764)	43	23904			0.00- 73.43	23.43	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.144	13.144 (0.787)	96	238265	5.0	5.8		100.00	9305(Q)

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)									
13.144	13.144	(0.000)	61	122000			127.49- 227.49	51.20	
13.144	13.144	(0.000)	98	43168			12.80- 112.80	18.12	
18 Freon 113						CAS #: 76-13-1			
13.235	13.235	(0.793)	151	324843	5.0	5.0		100.00	9290(Q)
13.235	13.235	(0.000)	153	48984			13.46- 113.46	15.08	
13.235	13.235	(0.000)	101	120300			105.85- 205.85	37.03	
19 Carbon Disulfide						CAS #: 75-15-0			
13.518	13.518	(0.810)	76	733514	5.0	5.0		100.00	8027
20 Acetone						CAS #: 67-64-1			
13.388	13.388	(0.802)	43	462729	5.0	6.1		100.00	
13.388	13.388	(0.802)	58	138984			0.00- 80.04	30.04	
22 2-Propanol						CAS #: 67-63-0			
13.869	13.869	(0.831)	45	488232	5.0	5.2		100.00	7544
13.869	13.869	(0.000)	43	26146			0.00- 70.31	5.36	
13.869	13.869	(0.000)	59	5069			0.00- 53.94	1.04	
23 Methylene Chloride						CAS #: 75-09-2			
14.242	14.242	(0.853)	84	224066	5.0	5.1		100.00	9651(Q)
14.242	14.242	(0.000)	49	101848			104.22- 204.22	45.45	
14.242	14.242	(0.000)	51	32472			0.00- 99.17	14.49	
24 trans-1,2-Dichloroethene						CAS #: 156-60-5			
14.731	14.731	(0.883)	96	241682	5.0	4.9		100.00	9589(Q)
14.731	14.731	(0.000)	61	118536			107.35- 207.35	49.05	
14.731	14.731	(0.000)	98	49080			15.15- 115.15	20.31	
26 MTBE						CAS #: 1634-04-4			
14.731	14.731	(0.883)	73	646033	5.0	5.0		100.00	6447
14.731	14.731	(0.000)	57	43376			0.00- 74.88	6.71	
14.731	14.731	(0.000)	41	43978			0.00- 75.22	6.81	
27 Hexane						CAS #: 110-54-3			
15.166	15.166	(0.909)	57	455982	5.0	5.1		100.00	7284
15.166	15.166	(0.000)	43	101843			19.51- 119.51	22.33	
15.166	15.166	(0.000)	56	75048			1.22- 101.22	16.46	
28 1,1-Dichloroethane						CAS #: 75-34-3			
15.440	15.440	(0.925)	63	458422	5.0	5.0		100.00	9634
15.440	15.440	(0.000)	65	41836			0.00- 80.49	9.13	
29 Chloroprene						CAS #: 126-99-8			
15.570	15.570	(0.933)	53	161430	5.0	5.2		100.00	7889
15.570	15.570	(0.000)	88	24764			0.00- 99.91	15.34	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.570	15.570 (0.000)	50	12487			0.00- 75.17	7.74	
30 Vinyl Acetate					CAS #: 108-05-4			
15.501	15.501 (0.929)	43	749635	5.0	5.1		100.00	5945
15.501	15.501 (0.000)	86	16469			0.00- 57.56	2.20	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.333	16.333 (0.979)	96	257903	5.0	5.0		100.00	9750(Q)
16.333	16.333 (0.000)	61	111071			98.98- 198.98	43.07	
16.333	16.333 (0.000)	98	48344			14.85- 114.85	18.75	
32 2-Butanone					CAS #: 78-93-3			
16.318	16.318 (0.978)	72	108129	5.0	5.1		100.00	7902(Q)
16.318	16.318 (0.000)	43	148791			434.74- 534.74	137.61	
16.318	16.318 (0.000)	57	9883			0.00- 82.20	9.14	
34 Chloroform					CAS #: 67-66-3			
16.775	16.775 (1.005)	83	481526	5.0	5.0		100.00	9184
16.775	16.775 (0.000)	85	94335			15.56- 115.56	19.59	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.760	16.760 (1.004)	42	250622	5.0	5.0		100.00	7488
16.760	16.760 (0.000)	71	26184			0.00- 87.36	10.45	
16.760	16.760 (0.000)	72	26934			0.00- 88.43	10.75	
36 1,1,1-Trichloroethane					CAS #: 71-55-6			
17.058	17.058 (1.022)	97	451490	5.0	5.0		100.00	9740
17.058	17.058 (0.000)	99	82088			12.67- 112.67	18.18	
37 Cyclohexane					CAS #: 110-82-7			
17.142	17.142 (1.027)	56	427842	5.0	5.1		100.00	8284(Q)
17.142	17.142 (0.000)	84	88251			21.88- 121.88	20.63	
17.142	17.142 (0.000)	41	72107			8.73- 108.73	16.85	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.309	17.309 (1.037)	119	357938	5.0	5.0		100.00	8578
17.309	17.309 (0.000)	117	40536			0.00- 89.33	11.32	
40 Benzene					CAS #: 71-43-2			
17.584	17.584 (0.975)	78	791151	5.0	5.0		100.00	9696
17.584	17.584 (0.000)	77	56750			0.00- 74.08	7.17	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.592	17.592 (0.975)	62	310040	5.0	5.0		100.00	8186
17.592	17.592 (0.000)	64	27950			0.00- 81.12	9.01	
42 Heptane					CAS #: 142-82-5			
17.821	17.821 (0.988)	43	546632	5.0	5.0		100.00	7677

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)									
17.821	17.821	(0.000)	57	84824			0.00- 98.34	15.52	
17.821	17.821	(0.000)	71	85616			0.00- 98.79	15.66	
44 Trichloroethene						CAS #: 79-01-6			
18.446	18.446	(1.023)	95	299983	5.0	4.9		100.00	7806(Q)
18.446	18.446	(0.000)	130	76000			35.60- 135.60	25.33	
18.446	18.446	(0.000)	97	56528			13.67- 113.67	18.84	
45 1,2-Dichloropropane						CAS #: 78-87-5			
18.751	18.751	(1.040)	63	276157	5.0	5.0		100.00	9705(Q)
18.751	18.751	(0.000)	62	61215			25.80- 125.80	22.17	
18.751	18.751	(0.000)	41	48193			9.67- 109.67	17.45	
46 1,4-Dioxane						CAS #: 123-91-1			
18.904	18.904	(1.048)	88	145083	5.0	4.9		100.00	9791(Q)
18.904	18.904	(0.000)	58	31616			28.21- 128.21	21.79	
18.904	18.904	(0.000)	57	10561			0.00- 76.12	7.28	
47 Bromodichloromethane						CAS #: 75-27-4			
19.102	19.102	(1.059)	83	475564	5.0	4.9		100.00	9379
19.102	19.102	(0.000)	85	86136			13.39- 113.39	18.11	
48 cis-1,3-Dichloropropene						CAS #: 542-75-6			
19.682	19.682	(1.091)	75	193547	7.2	7.1		100.00	9557
19.682	19.682	(0.000)	77	16863			0.00- 80.06	8.71	
19.682	19.682	(0.000)	39	33537			9.78- 109.78	17.33	
49 4-Methyl-2-pentanone						CAS #: 108-10-1			
19.804	19.804	(1.098)	43	590585	5.0	5.0		100.00	9640
19.804	19.804	(0.000)	58	62135			0.00- 85.05	10.52	
19.804	19.804	(0.000)	85	21217			0.00- 61.97	3.59	
51 Toluene						CAS #: 108-88-3			
20.170	20.170	(1.118)	92	473090	5.0	4.9		100.00	9459(Q)
20.170	20.170	(0.000)	91	229824			118.43- 218.43	48.58	
52 Octane						CAS #: 111-65-9			
20.147	20.147	(1.117)	57	211213	5.0	4.7		100.00	8365(Q)
20.147	20.147	(0.000)	85	68920			48.51- 148.51	32.63	
20.147	20.147	(0.000)	43	186907			217.16- 317.16	88.49	
53 trans-1,3-Dichloropropene						CAS #: 542-75-6			
20.399	20.399	(0.920)	75	51084	1.0	0.96		100.00	9676
20.399	20.399	(0.000)	77	3997			0.00- 77.26	7.82	
54 1,1,2-Trichloroethane						CAS #: 79-00-5			
20.689	20.689	(0.934)	97	254127	5.0	5.2		100.00	9745(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.689	20.689 (0.000)	99	42120			8.45- 108.45	16.57	
20.689	20.689 (0.000)	83	63523			38.16- 138.16	25.00	
55 Tetrachloroethene					CAS #: 127-18-4			
20.956	20.956 (0.946)	166	276775	5.0	5.0		100.00	9270(Q)
20.956	20.956 (0.000)	129	64904			33.09- 133.09	23.45	
20.956	20.956 (0.000)	131	62344			29.81- 129.81	22.53	
56 2-Hexanone					CAS #: 591-78-6			
20.918	20.918 (0.944)	43	607966	5.0	5.3		100.00	8560
20.918	20.918 (0.000)	58	87648			0.00- 99.38	14.42	
20.918	20.918 (0.000)	100	16046			0.00- 59.04	2.64	
57 Dibromochloromethane					CAS #: 124-48-1			
21.307	21.307 (0.961)	129	340343	5.0	5.1		100.00	8205
21.307	21.307 (0.000)	208	4327			0.00- 54.97	1.27	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.528	21.528 (0.971)	107	335245	5.0	5.2		100.00	9790(Q)
21.528	21.528 (0.000)	109	80849			43.25- 143.25	24.12	
60 Chlorobenzene					CAS #: 108-90-7			
22.215	22.215 (1.002)	112	531080	5.0	5.0		100.00	9327
22.215	22.215 (0.000)	114	43088			0.00- 81.47	8.11	
22.215	22.215 (0.000)	77	87313			13.78- 113.78	16.44	
61 Ethyl Benzene					CAS #: 100-41-4			
22.299	22.299 (1.006)	106	331290	5.0	5.0		100.00	(H)
22.299	22.299 (1.006)	91	1148684			296.73- 396.73	346.73	
62 m,p-Xylene					CAS #: 108-38-3			
22.459	22.459 (1.013)	106	634566	10.0	9.8		100.00	(H)
22.459	22.459 (1.013)	91	1362372			164.69- 264.69	214.69	
63 o-Xylene					CAS #: 95-47-6			
23.123	23.123 (1.043)	106	200467	5.0	5.0		100.00	9728(Q)
23.123	23.123 (0.000)	91	112061			165.83- 265.83	55.90	
64 Styrene					CAS #: 100-42-5			
23.130	23.130 (1.044)	104	416695	5.0	5.0		100.00	9894
23.130	23.130 (0.000)	78	50240			0.00- 98.72	12.06	
65 Bromoform					CAS #: 75-25-2			
23.558	23.558 (1.063)	171	164546	5.0	5.1		100.00	8420(Q)
23.558	23.558 (0.000)	173	74536			143.98- 243.98	45.30	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.176	24.176 (1.091)	83	530413	5.0	5.4		100.00	9128

Data File: /chem/msdj.i/j-09jan.b/j010906.d
Report Date: 09-Jan-1997 14:16

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.176	24.176 (0.000)	85	77792			12.69- 112.69	14.67	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.595	24.595 (1.110)	105	649945	5.0	4.8		100.00	9362(M)
24.595	24.595 (1.110)	120	163682	5.0	4.7	0.00- 76.35	25.18	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.114)	105	326222	5.0	5.0		100.00	7991(M)
24.679	24.679 (1.114)	120	150504	5.0	5.0	0.00- 94.84	46.14	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.442	25.442 (1.148)	105	260129	5.0	5.0		100.00	8825
25.442	25.442 (0.000)	120	23798			0.00- 89.84	9.15	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.167	26.167 (1.181)	146	329109	5.0	5.0		100.00	
26.167	26.167 (1.181)	148	203666			11.88- 111.88	61.88	
26.167	26.167 (1.181)	111	153610			0.00- 96.67	46.67	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.342	26.342 (1.189)	146	323634	5.0	5.0		100.00	(H)
26.350	26.350 (1.189)	148	206187			13.71- 113.71	63.71	
26.350	26.350 (1.189)	111	144826			0.00- 94.75	44.75	
74 Benzyl Chloride					CAS #: 100-44-7			
26.594	26.594 (1.200)	91	617072	5.0	4.9		100.00	9278
26.594	26.594 (0.000)	126	21120			0.00- 66.49	3.42	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.227	27.227 (1.229)	146	294962	5.0	5.0		100.00	9764(Q)
27.227	27.227 (0.000)	148	35896			13.77- 113.77	12.17	
27.227	27.227 (0.000)	111	26496			0.00- 97.07	8.98	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.607	31.607 (1.426)	180	116181	5.0	4.6		100.00	9678(Q)
31.607	31.607 (0.000)	182	17792			45.53- 145.53	15.31	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.041	32.041 (1.446)	225	131070	5.0	5.0		100.00	9470
32.041	32.041 (0.000)	223	12093			7.67- 107.67	9.23	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010906.d
Report Date: 09-Jan-1997 12:02

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010906.d
Lab Smp Id: VSTD005
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD005
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	192118	0.00
43 1,4-Difluorobenzene	832855	499713	1165997	832855	0.00
59 Chlorobenzene-d5	625059	375035	875083	625059	0.00

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.69	0.00
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.03	0.00
59 Chlorobenzene-d5	22.16	21.66	22.66	22.16	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/hsdj.l/j-09jan.b/j010908.d
Date : 09-JAN-97 10:44
Client ID: VSTD005
Sample Info: 25.0ml H298-25 100ppbv (5.0ppbv)

Instrument: hsdj.l

Operator: FA
Column diameter: 0.58

Column phase: RTx-624

Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

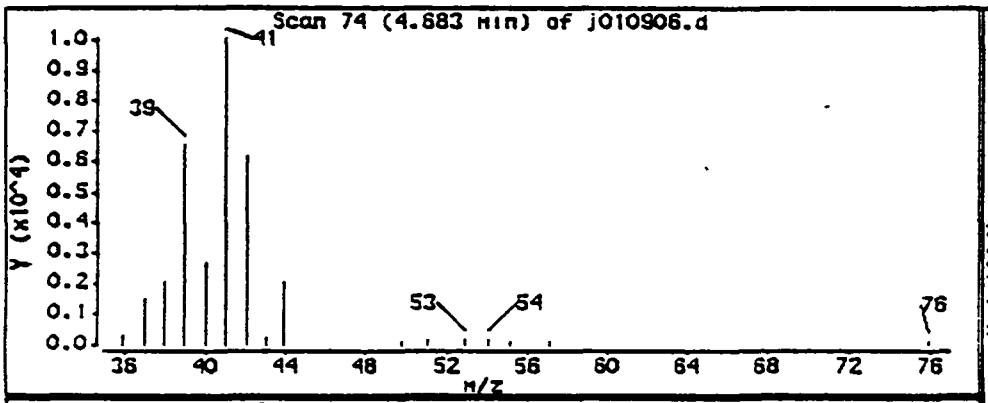
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

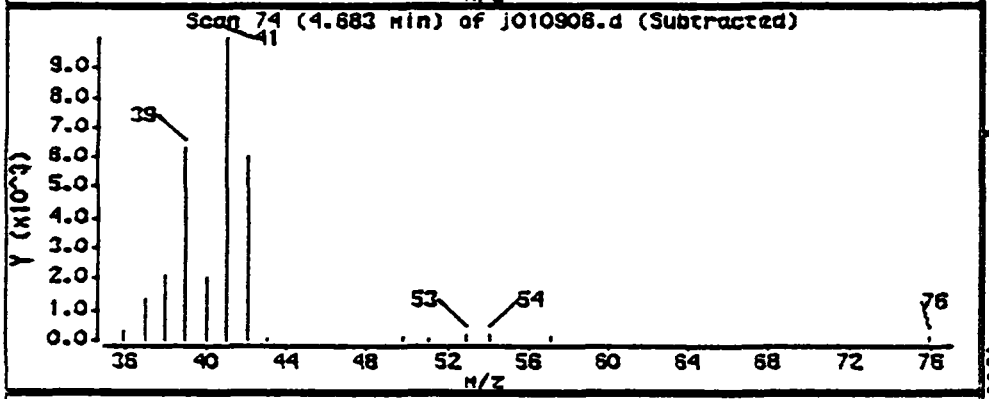
Operator: FR

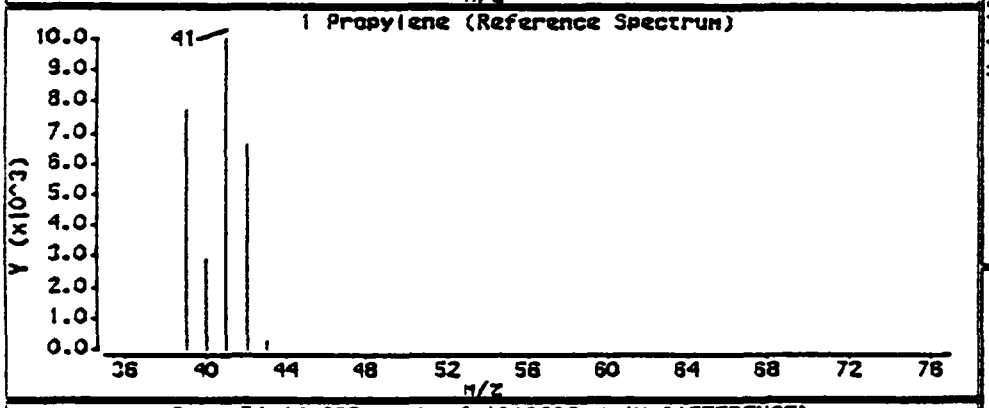
Column phase: RTx-624

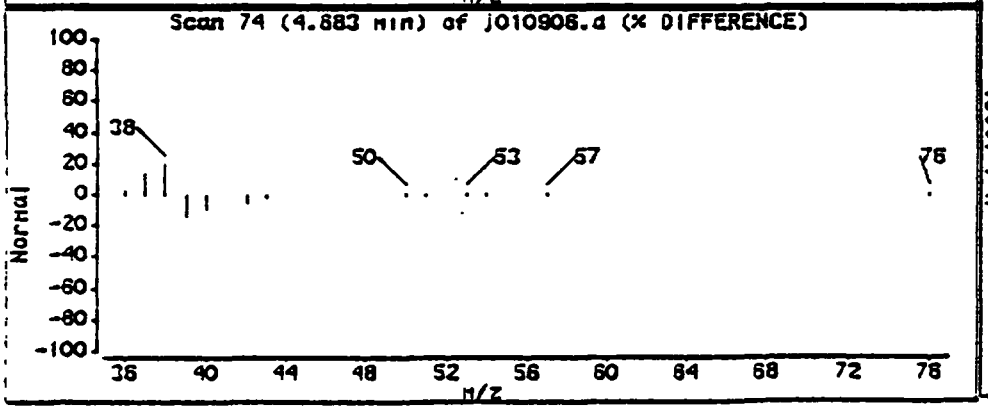
Column diameter: 0.58

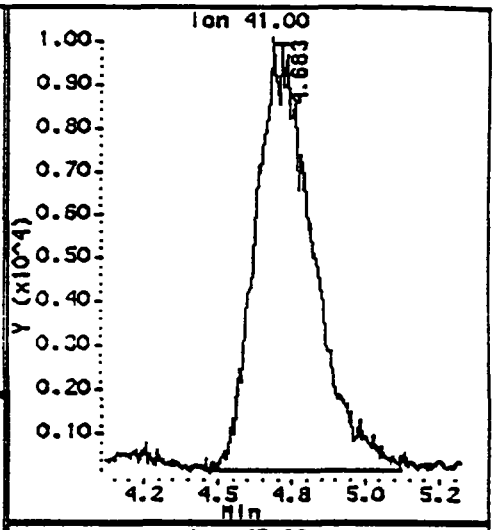
1 Propylene

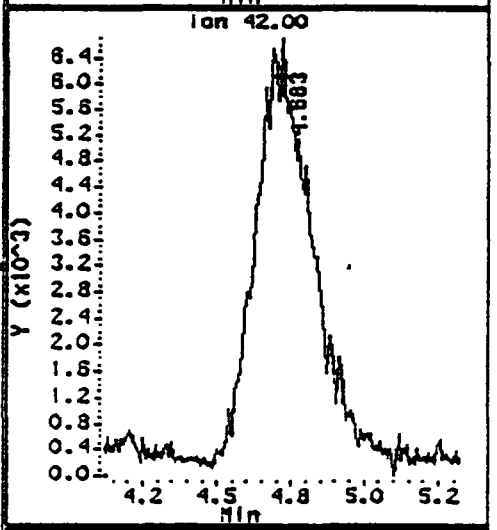


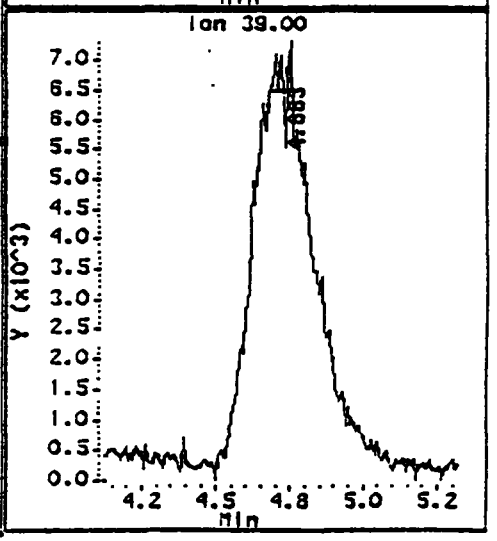












Data File: /chen/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

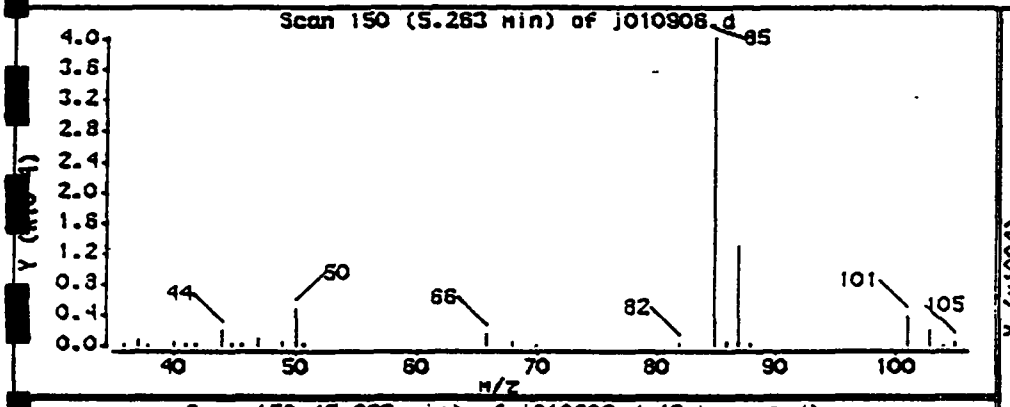
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

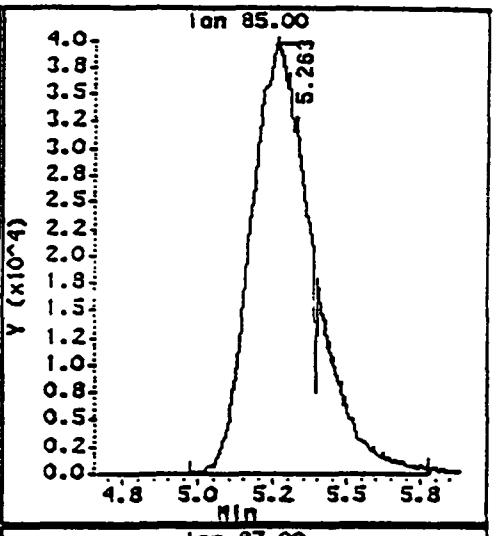
Operator: FR

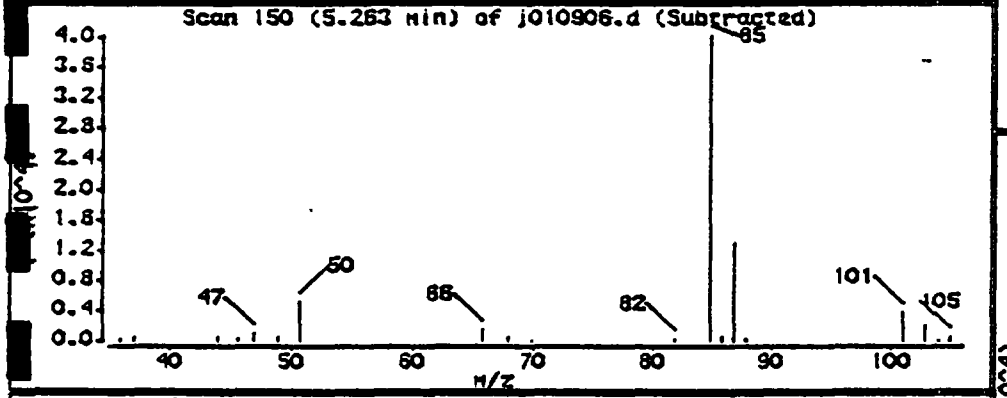
Column phase: RTx-624

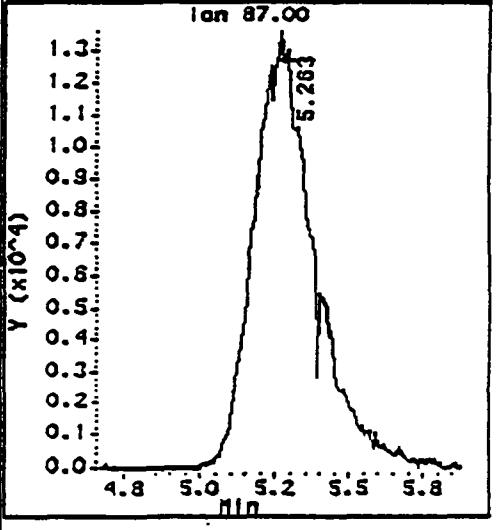
Column diameter: 0.58

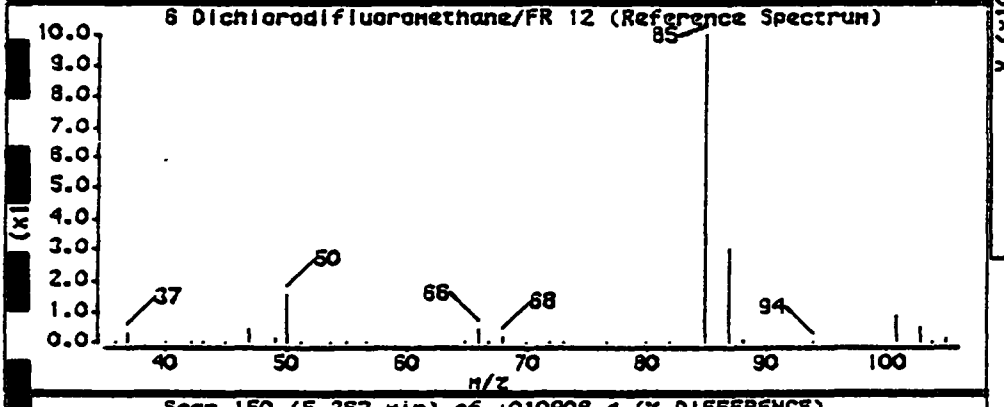
6 Dichlorodifluoromethane/FR 12

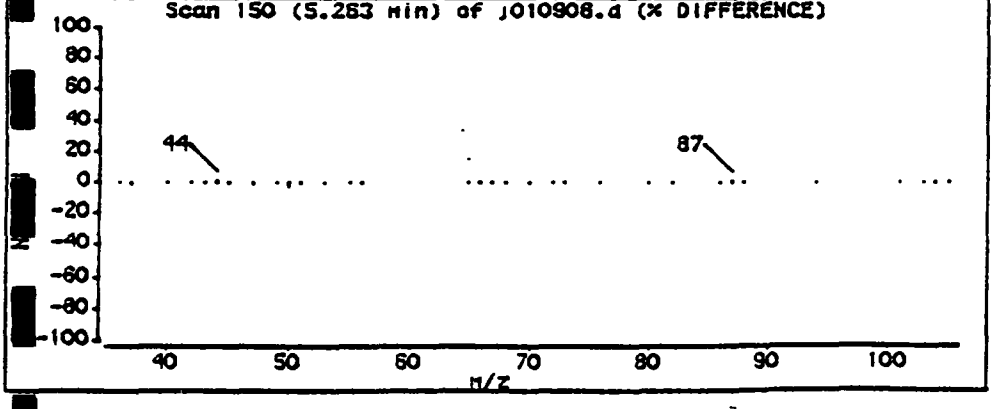












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

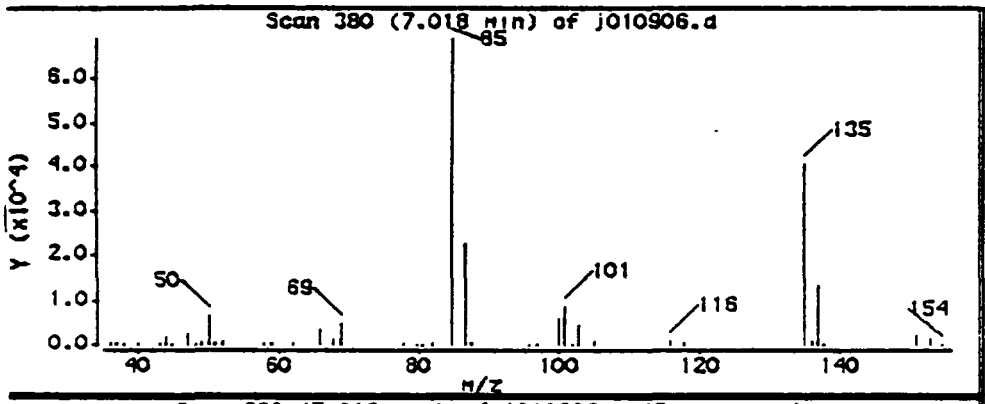
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

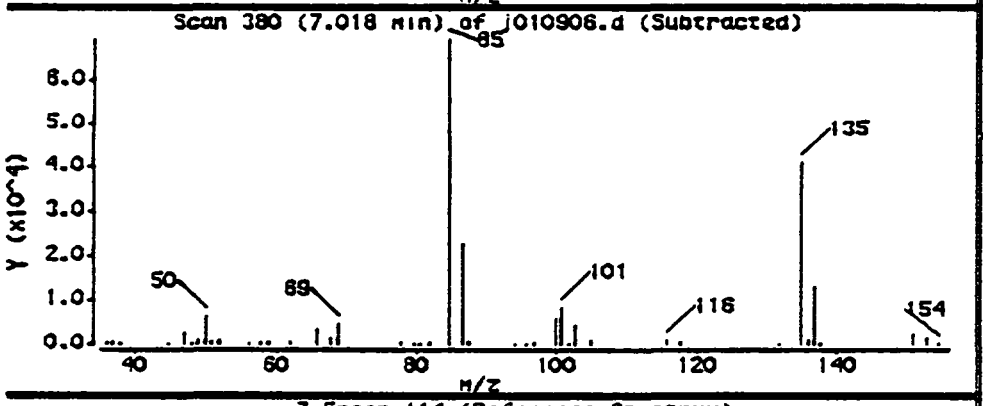
Operator: FR

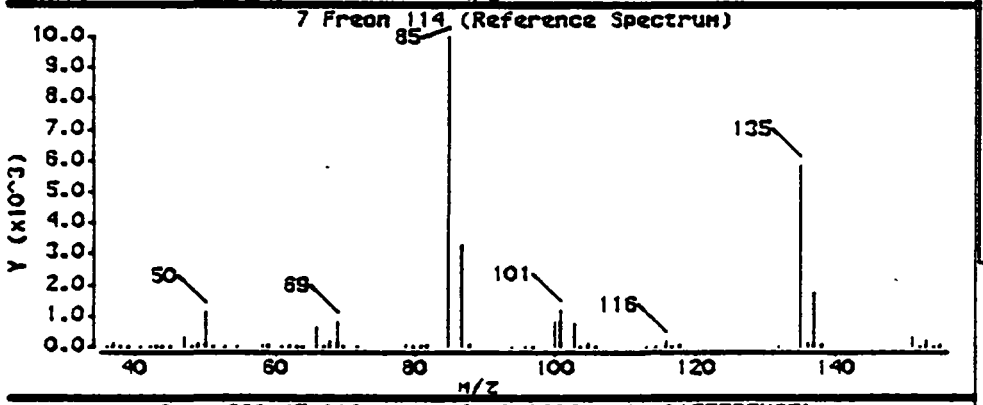
Column phase: RTx-624

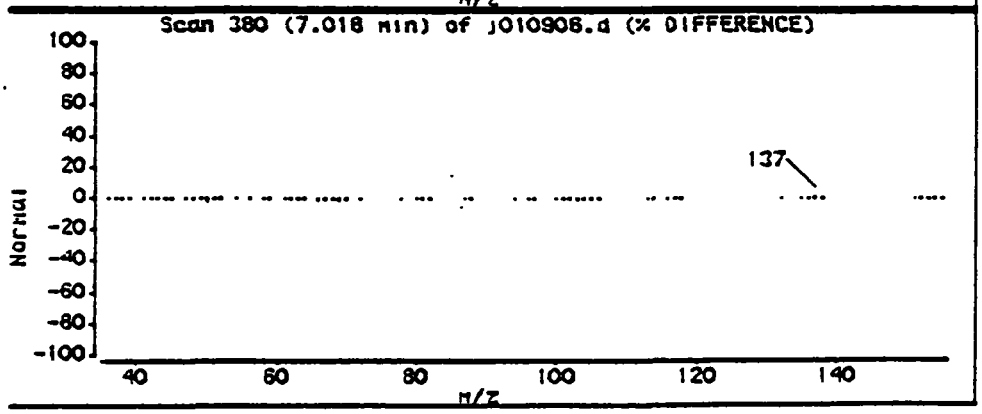
Column diameter: 0.58

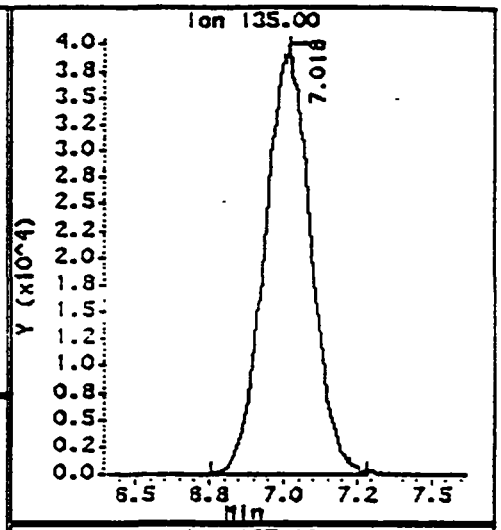
7 Freon 114

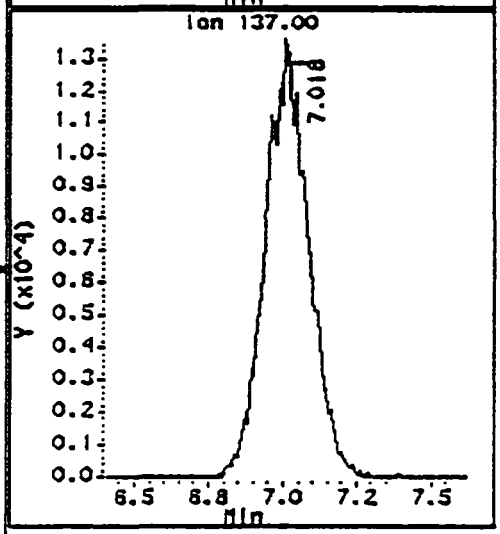






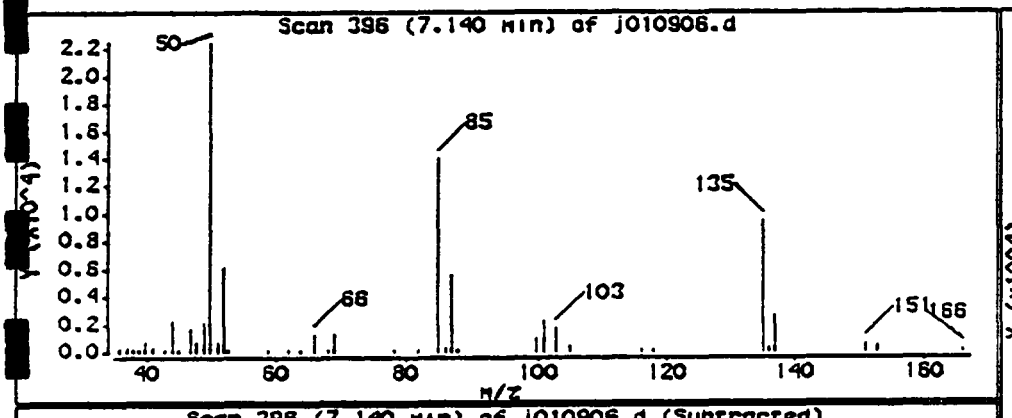


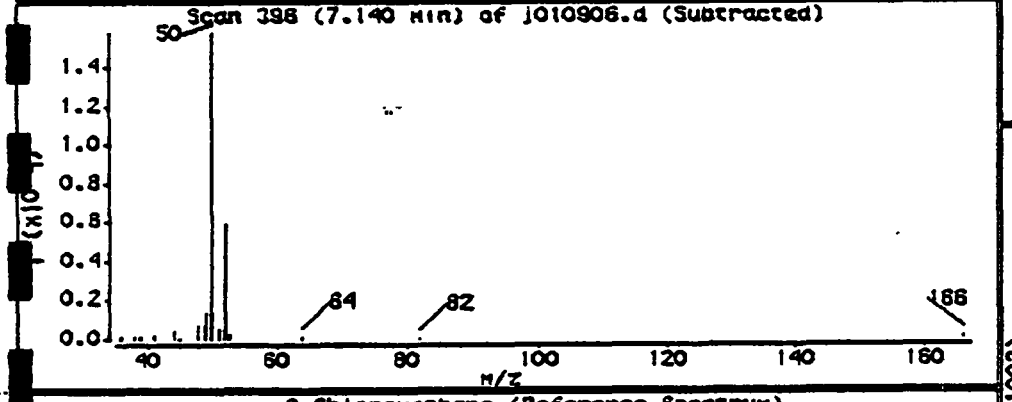


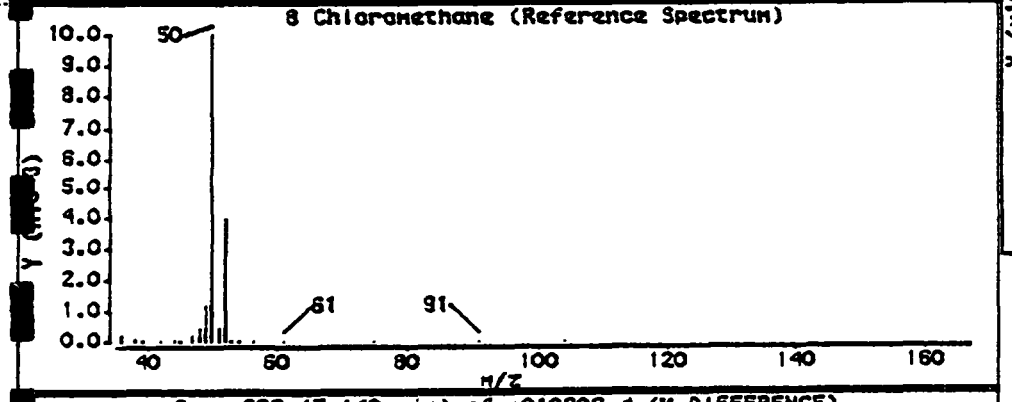


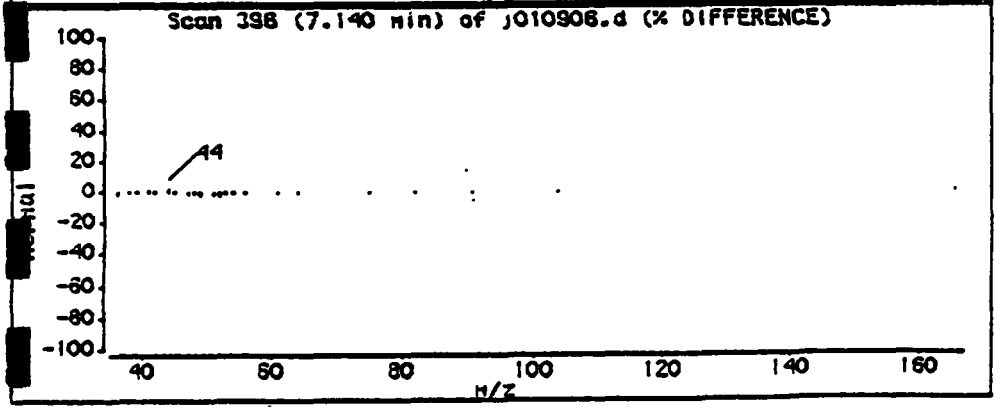
Data File: /chem/msdj.i/j-09jan.b/j010906.d
Date : 09-JAN-97 10:44
Client ID: VSTD005
Instrument: msdj.i
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)
Operator: FA
Column phase: RTx-624
Column diameter: 0.58

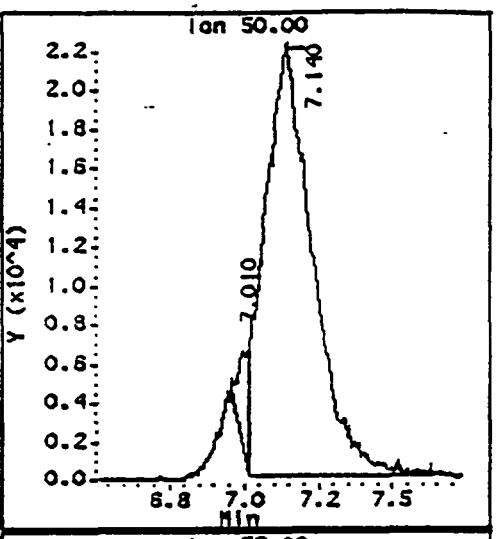
8 Chloromethane

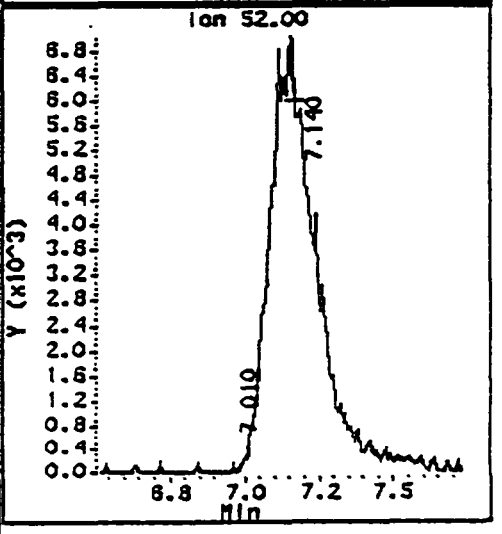












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

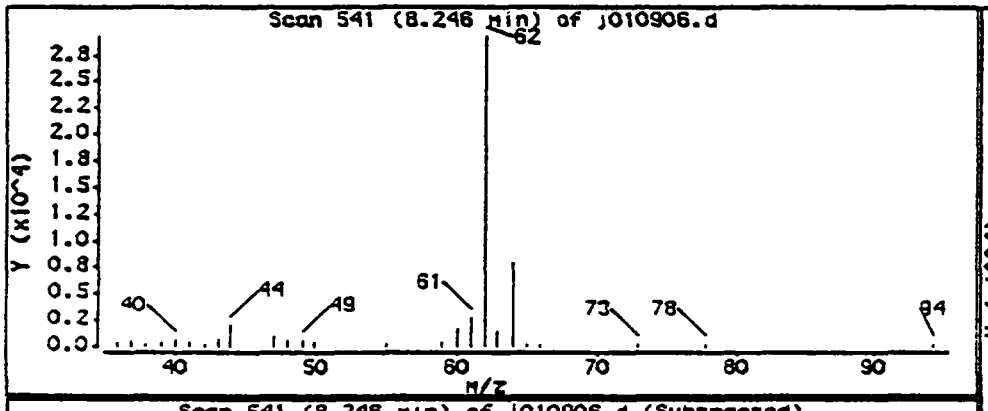
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

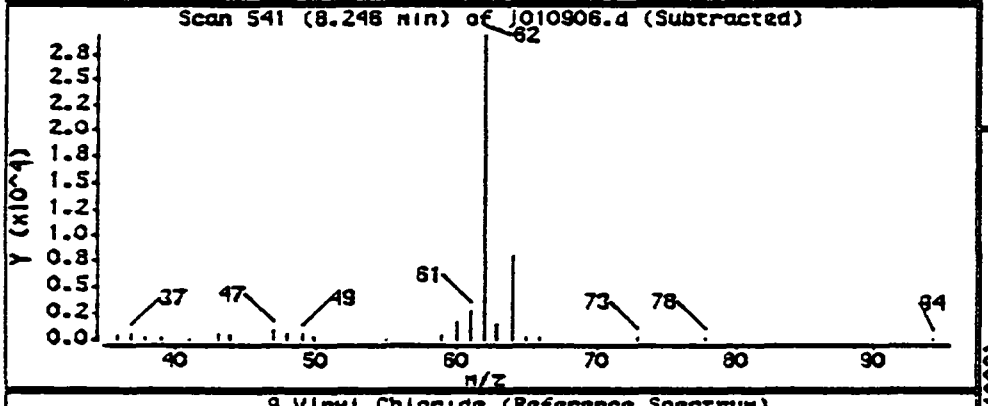
Operator: FR

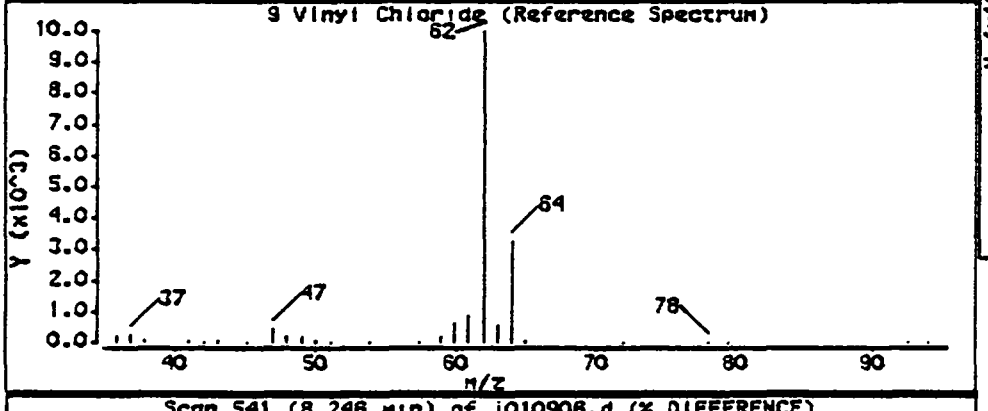
Column phase: RTx-624

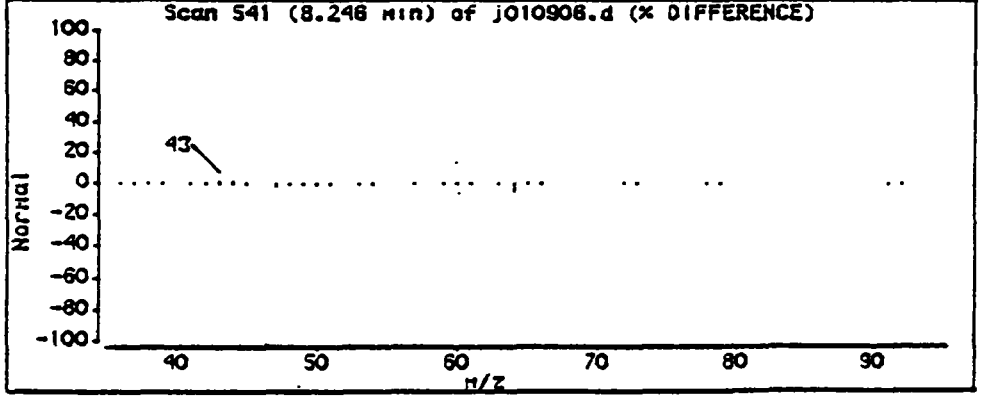
Column diameter: 0.58

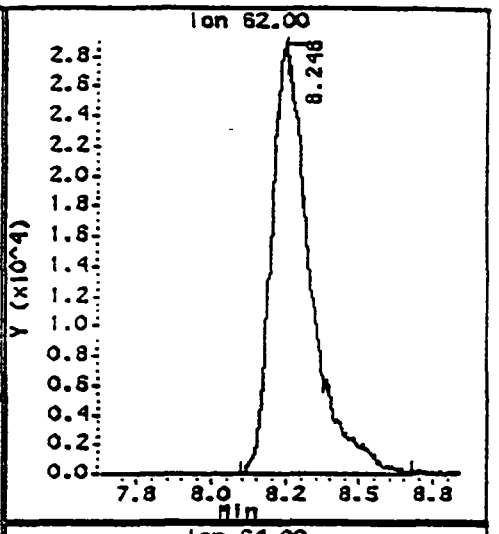
9 Vinyl Chloride

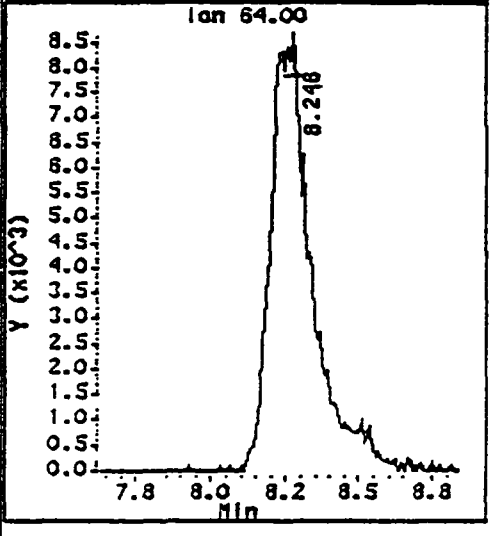












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

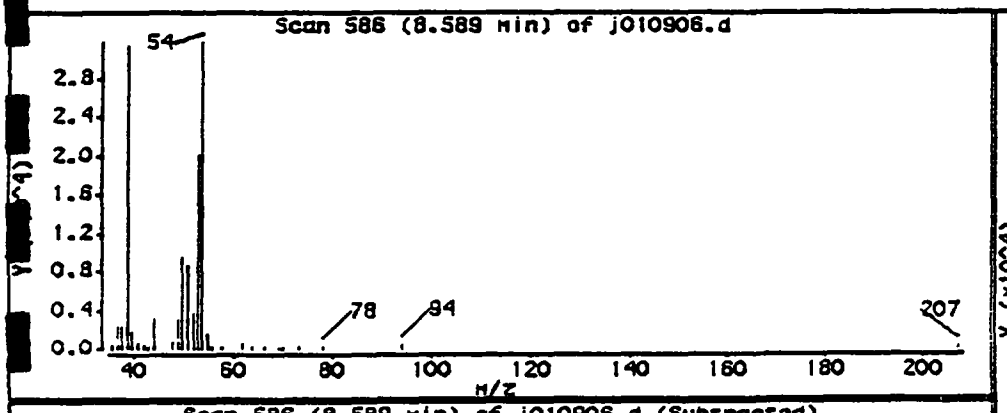
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

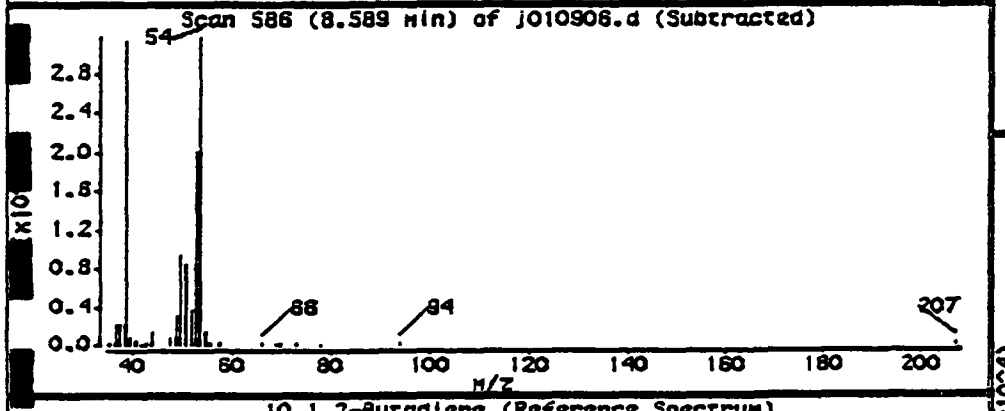
Operator: FA

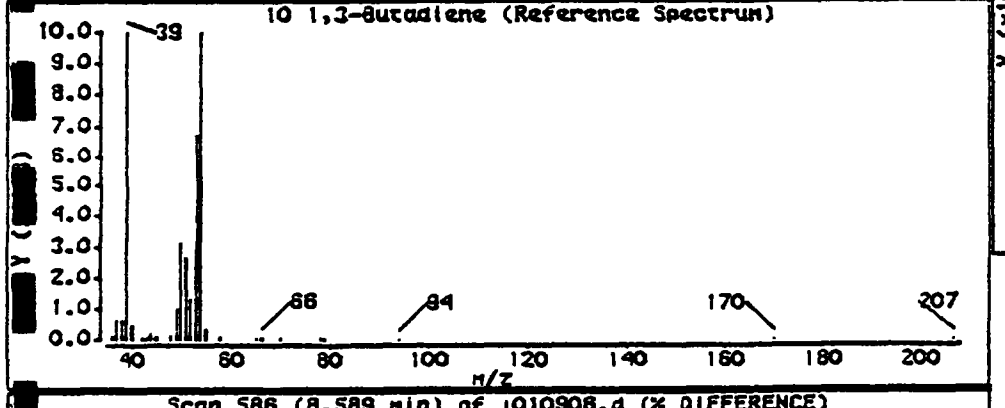
Column phase: RTx-624

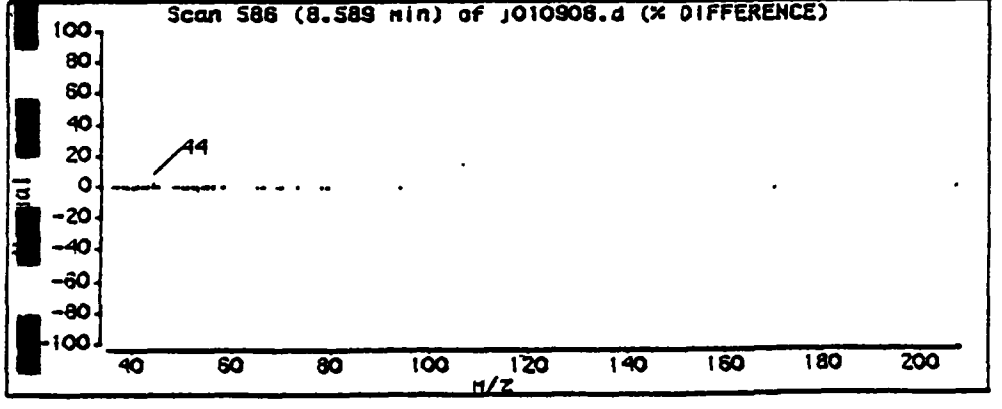
Column diameter: 0.58

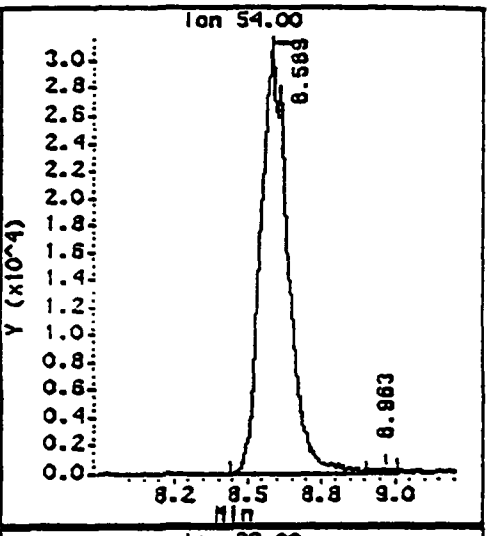
10 1,3-Butadiene

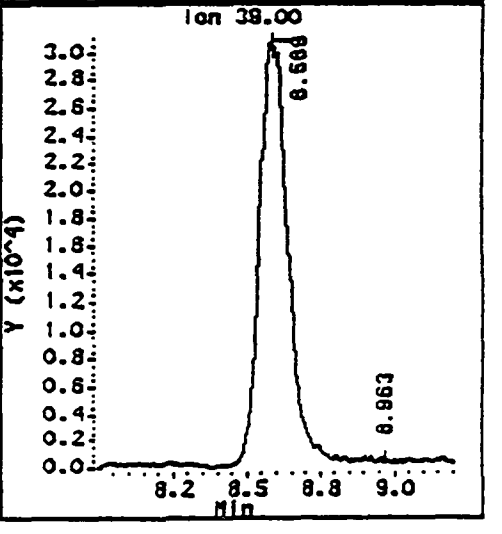












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

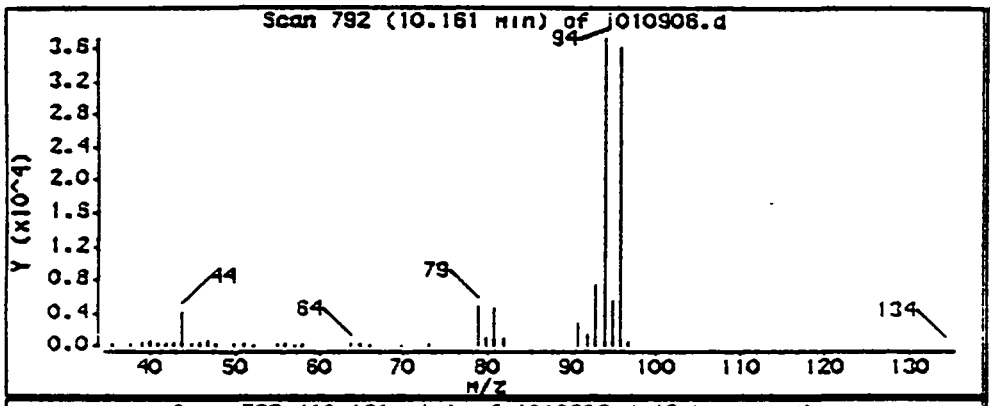
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

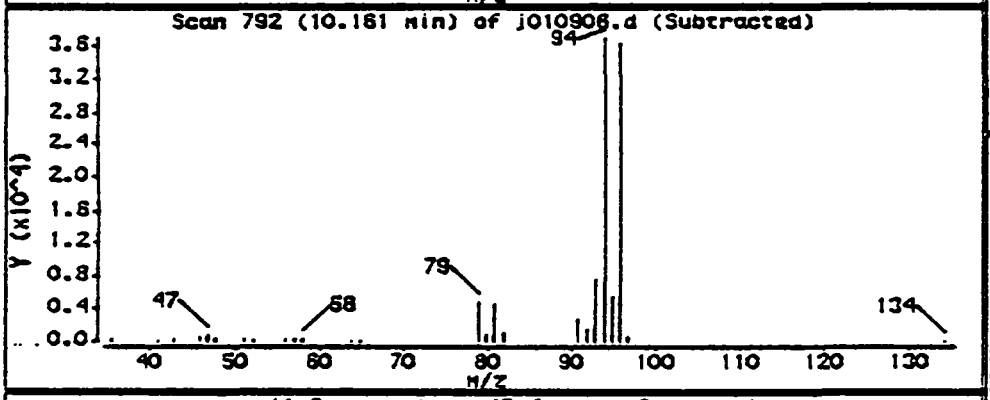
Operator: FR

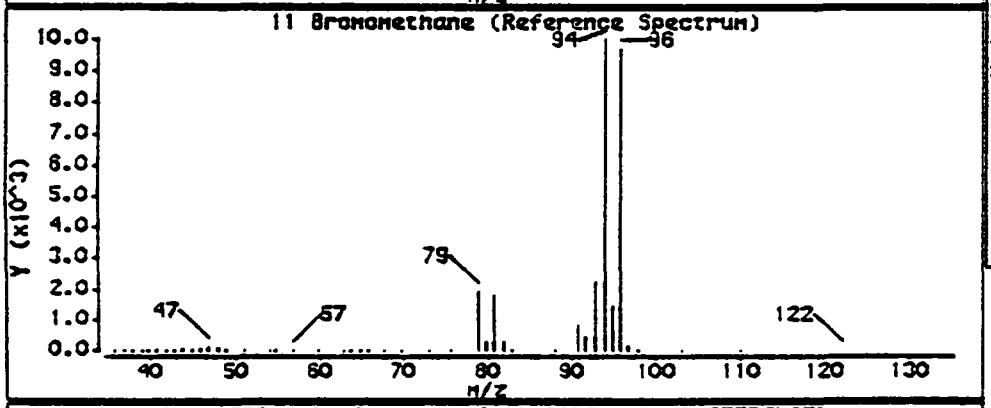
Column phase: RTx-624

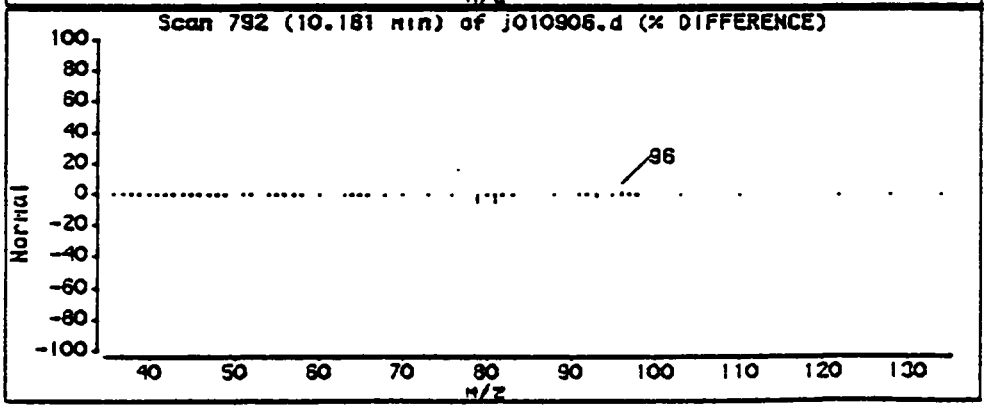
Column diameter: 0.58

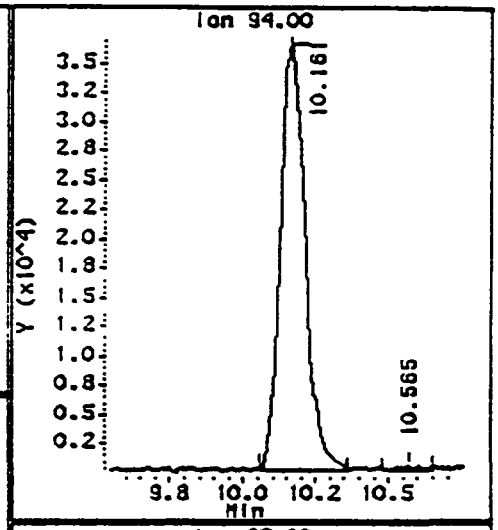
11 Bromomethane

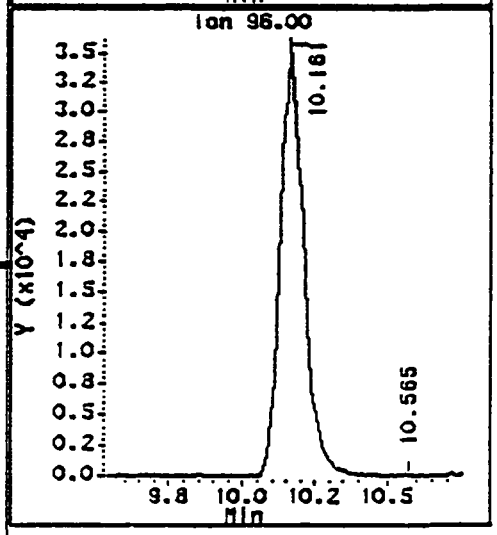












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

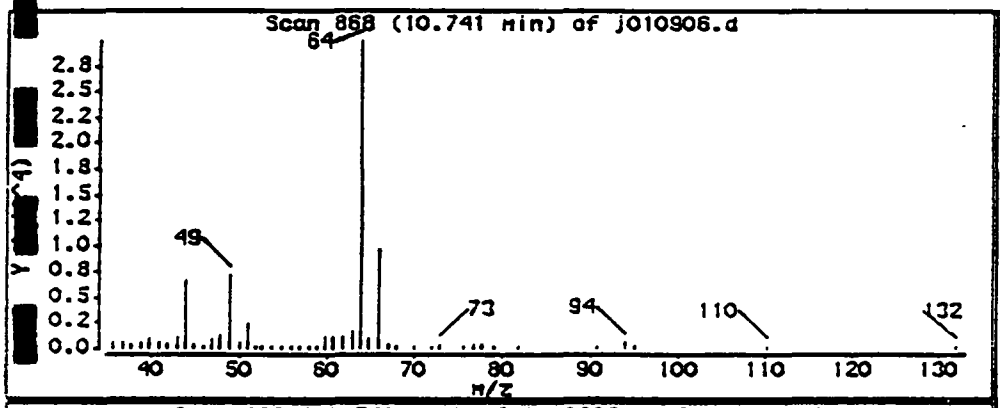
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

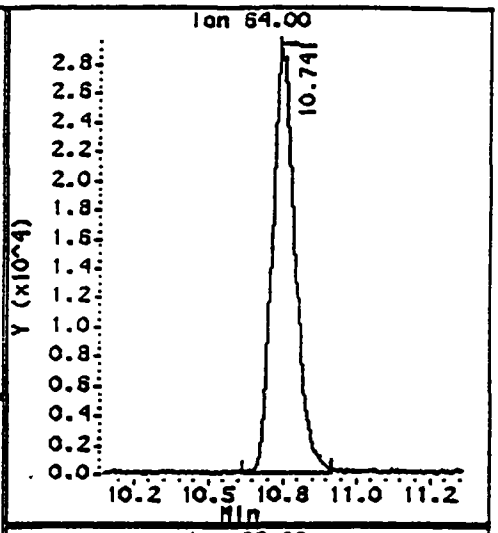
Operator: FR

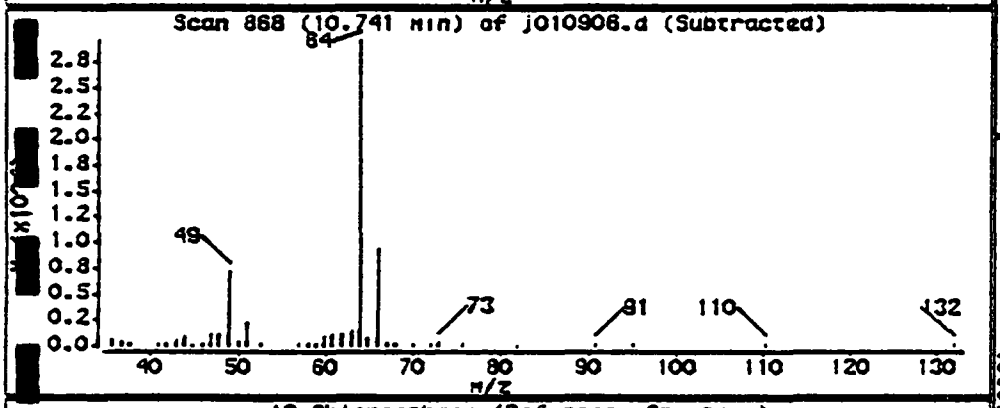
Column phase: RTx-624

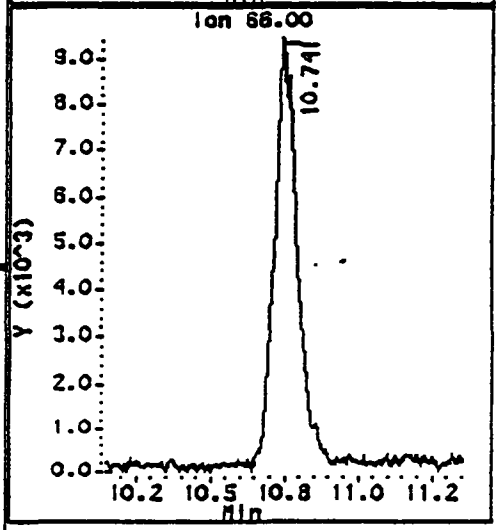
Column diameter: 0.58

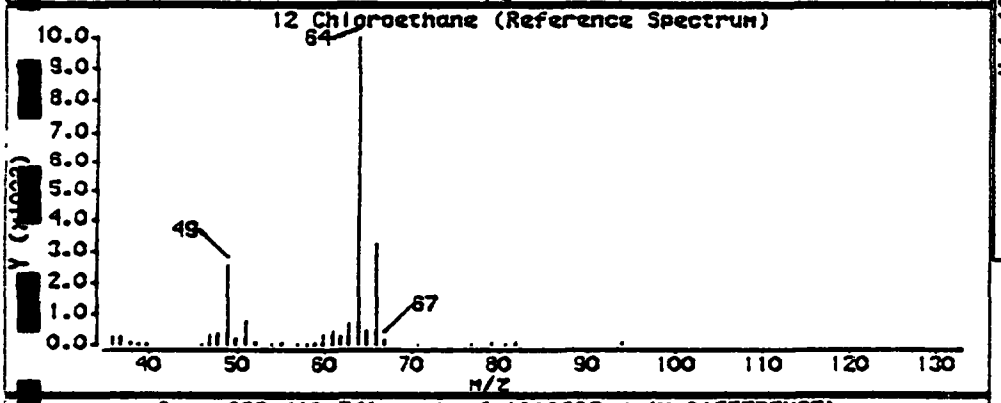
12 Chloroethane

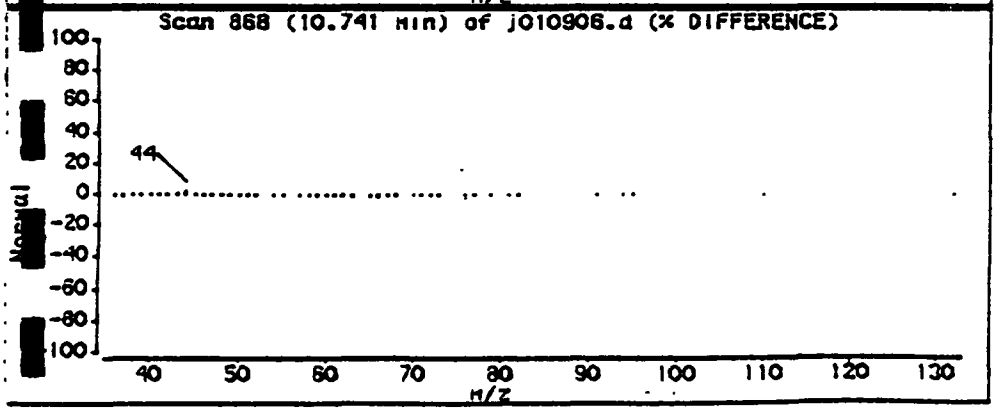












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

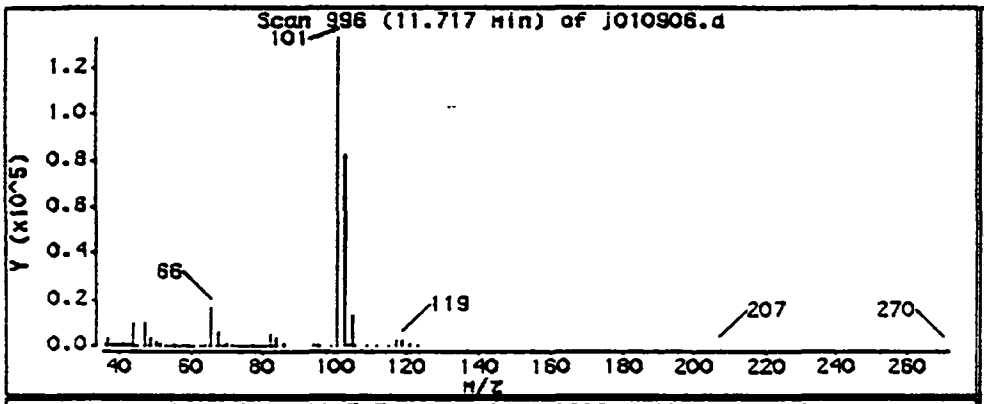
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

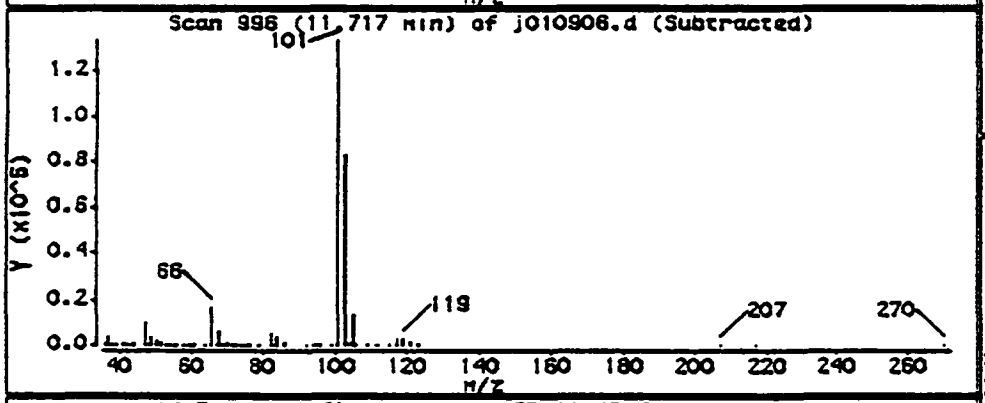
Operator: FA

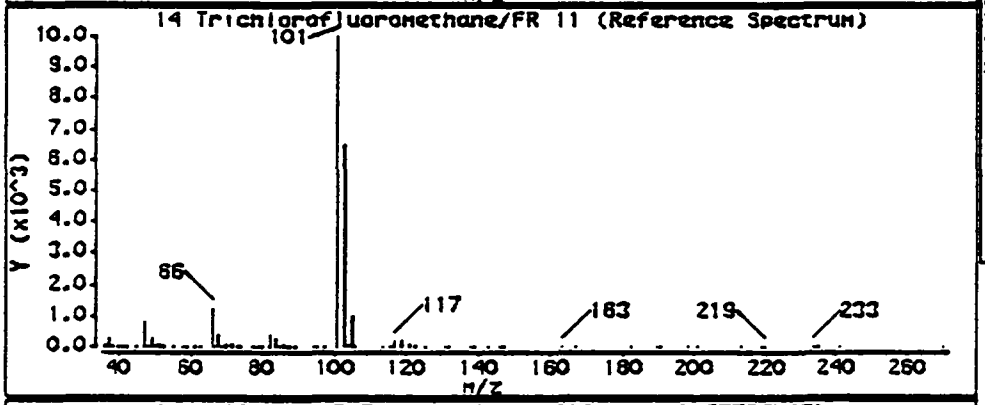
Column phase: RTx-624

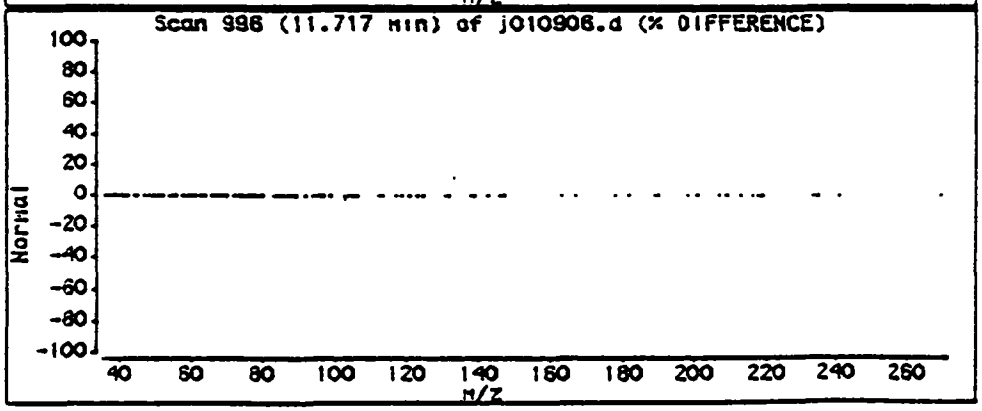
Column diameter: 0.58

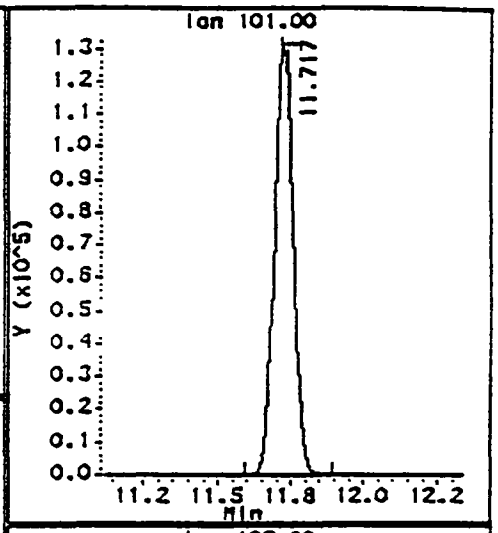
14 Trichlorofluoromethane/FR 11

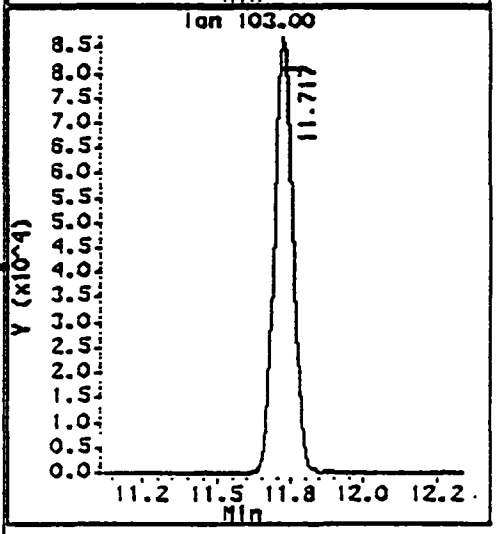












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

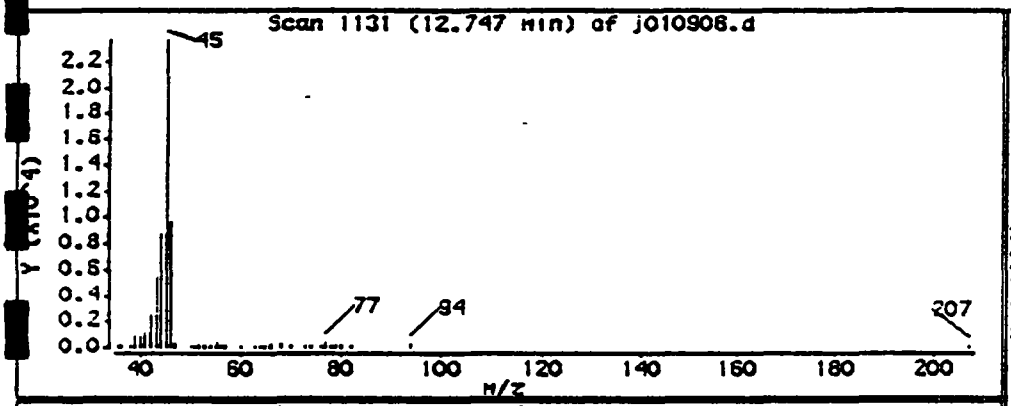
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

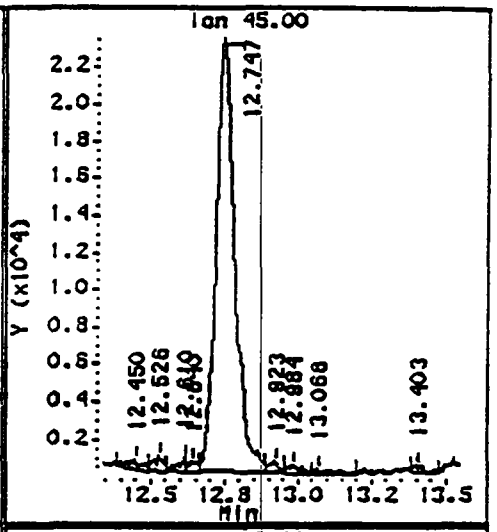
Operator: FA

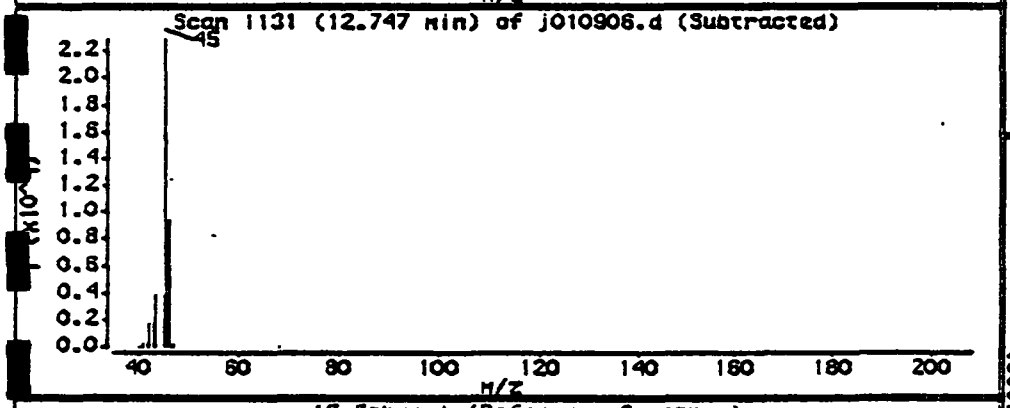
Column phase: RTx-624

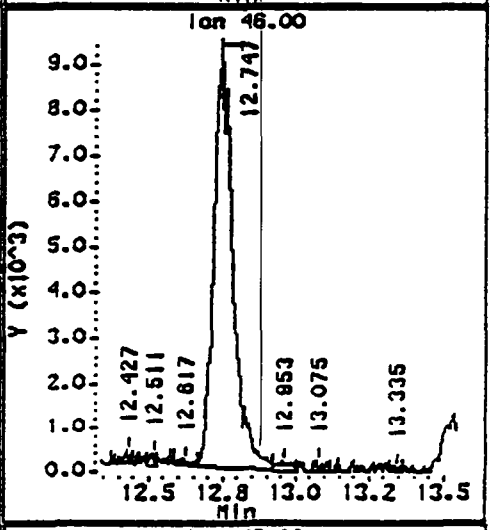
Column diameter: 0.58

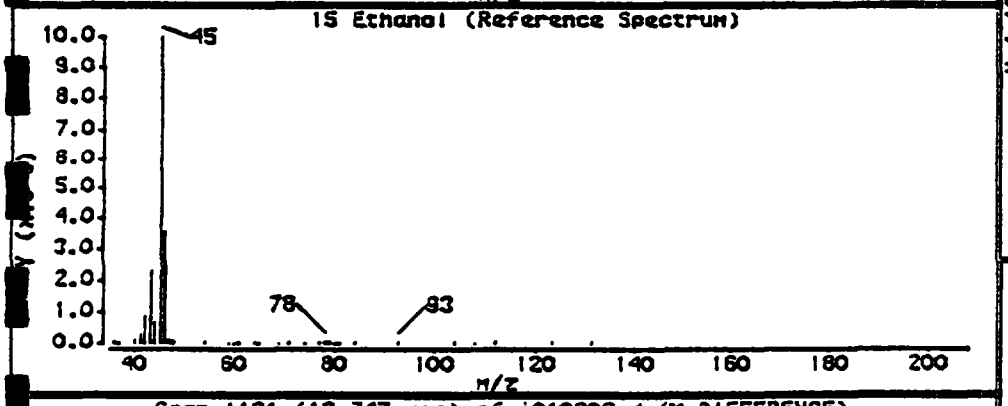
15 Ethanol

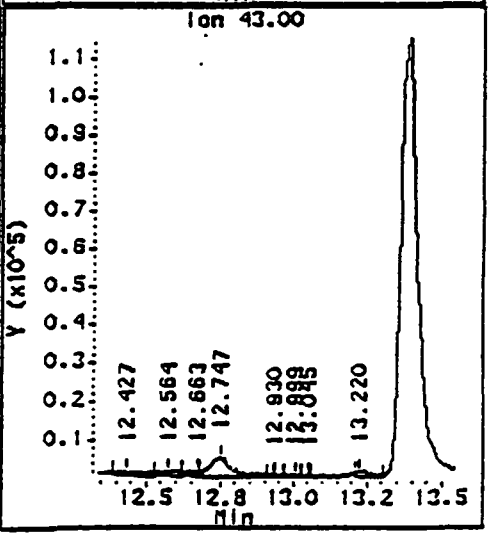


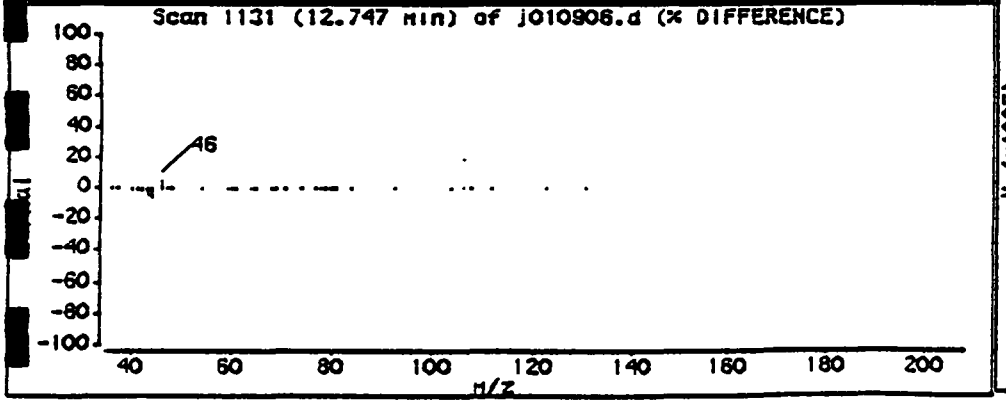












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

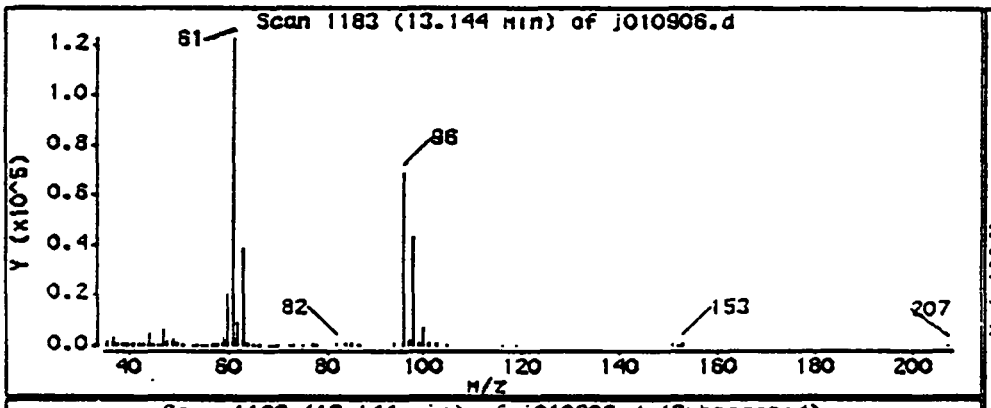
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

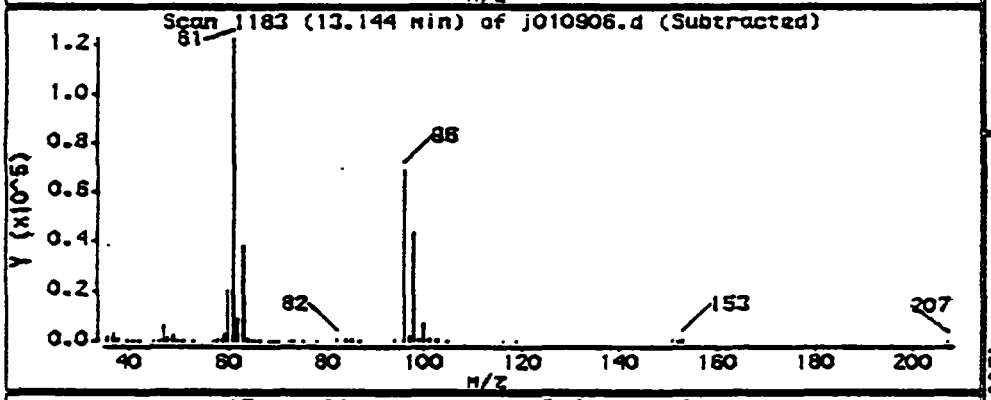
Operator: FR

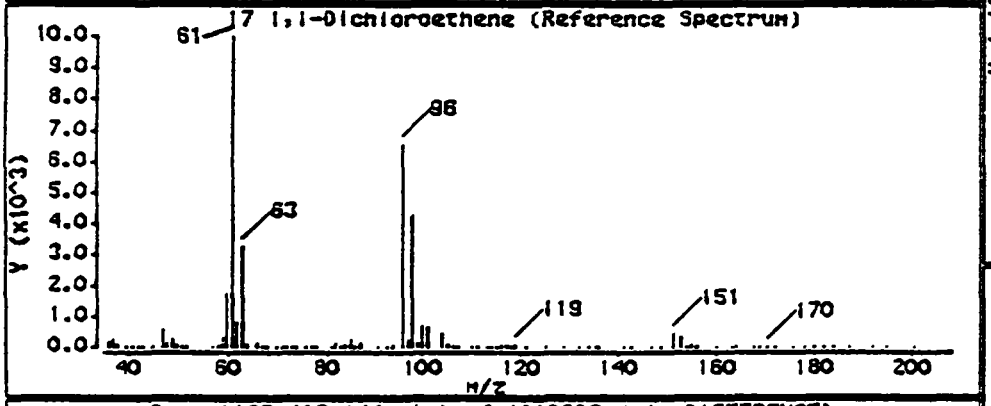
Column phase: RTx-624

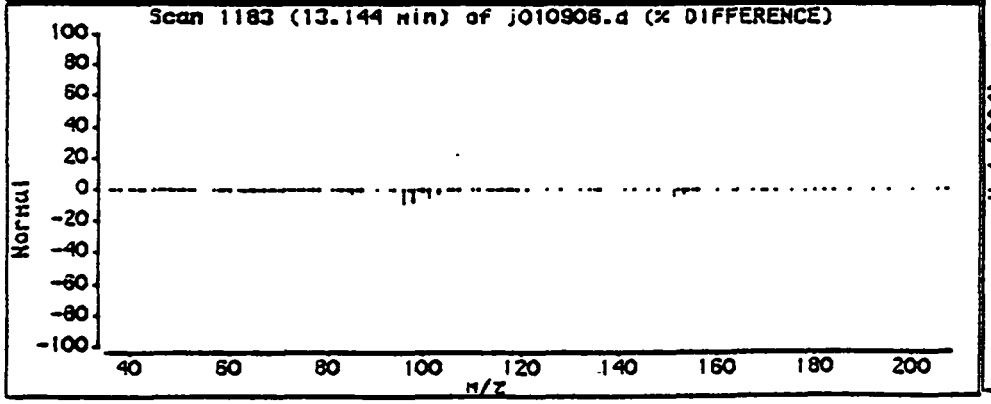
Column diameter: 0.58

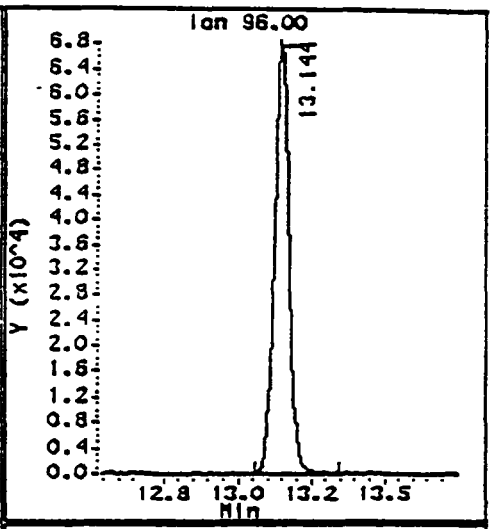
17 1,1-Dichloroethene

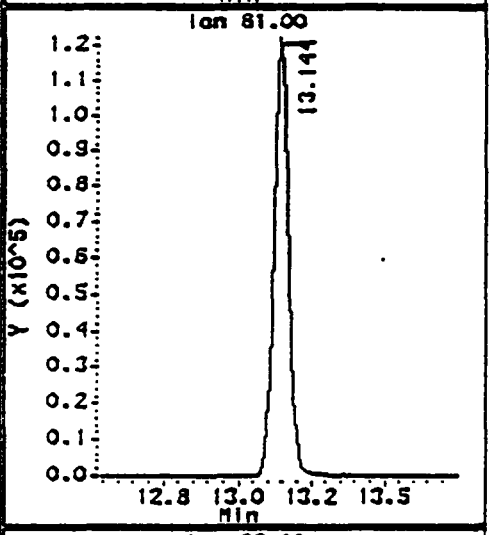


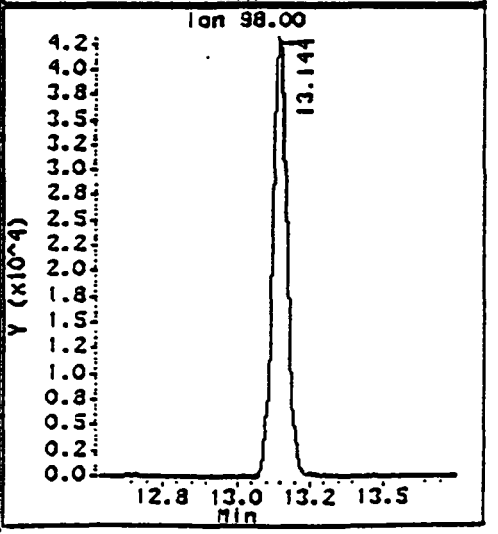












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

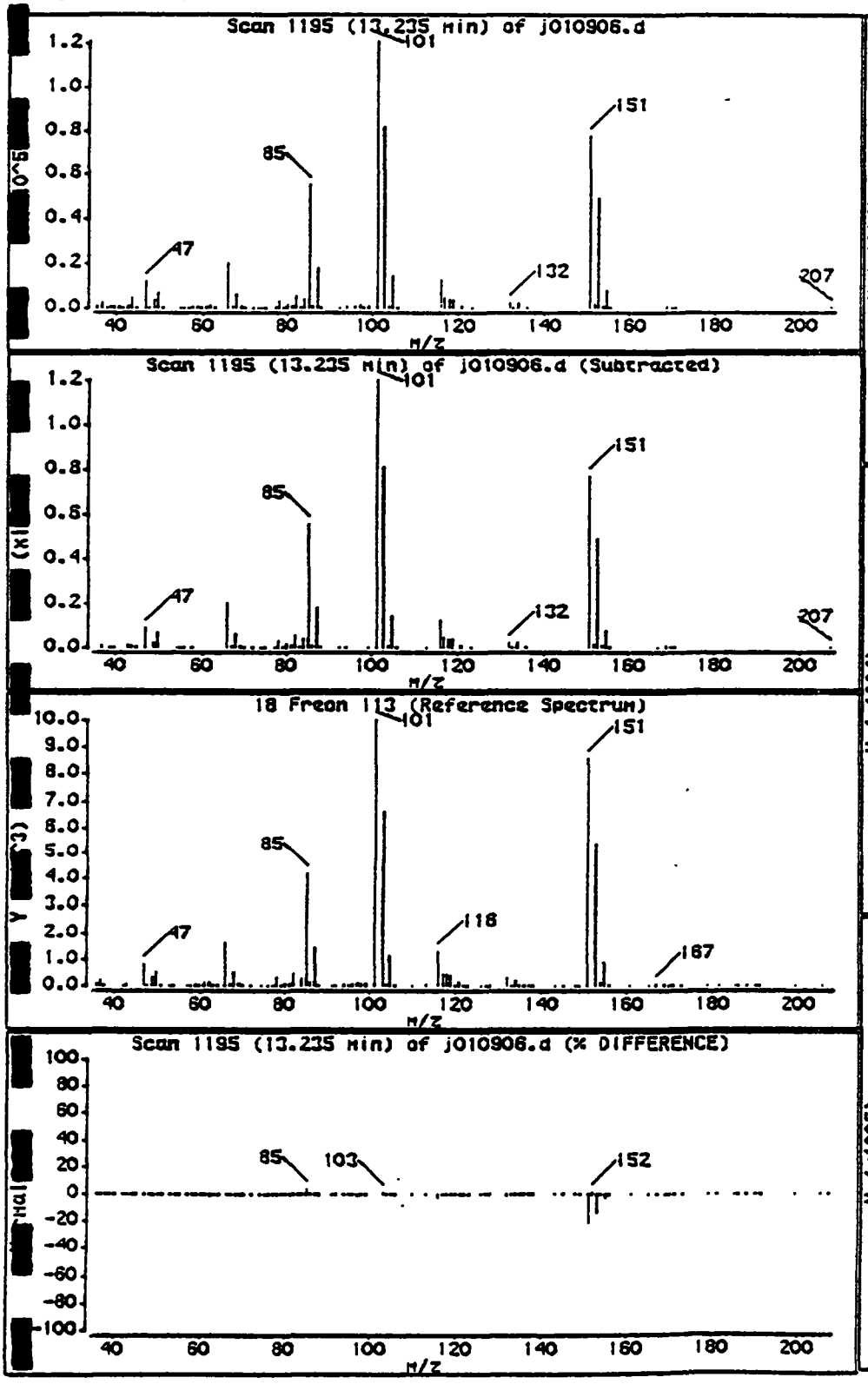
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

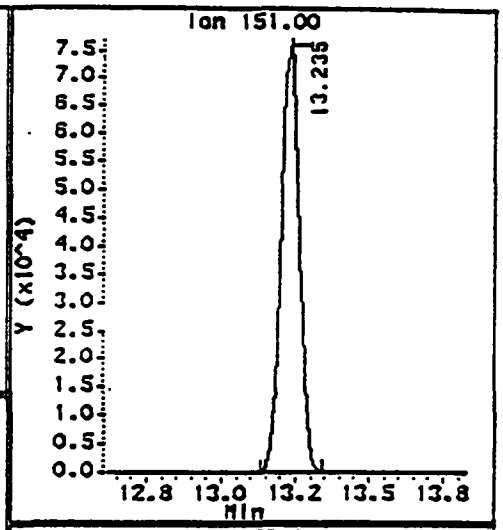
Operator: FR

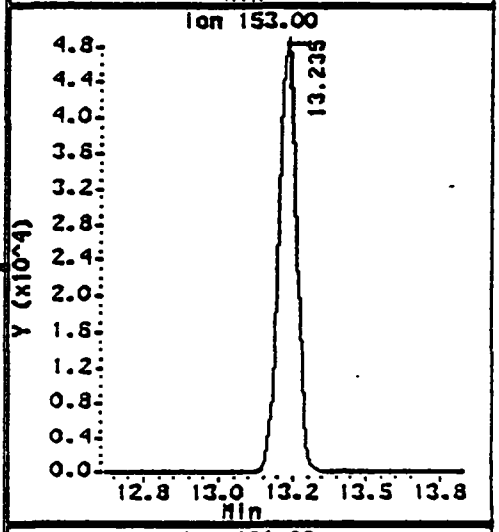
Column phase: RTx-624

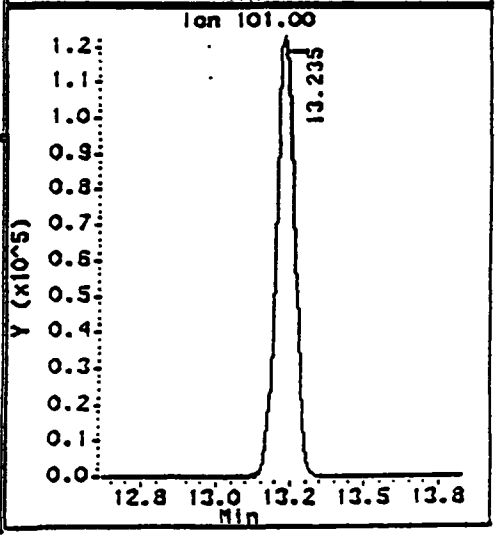
Column diameter: 0.58

18 Freon 113









Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

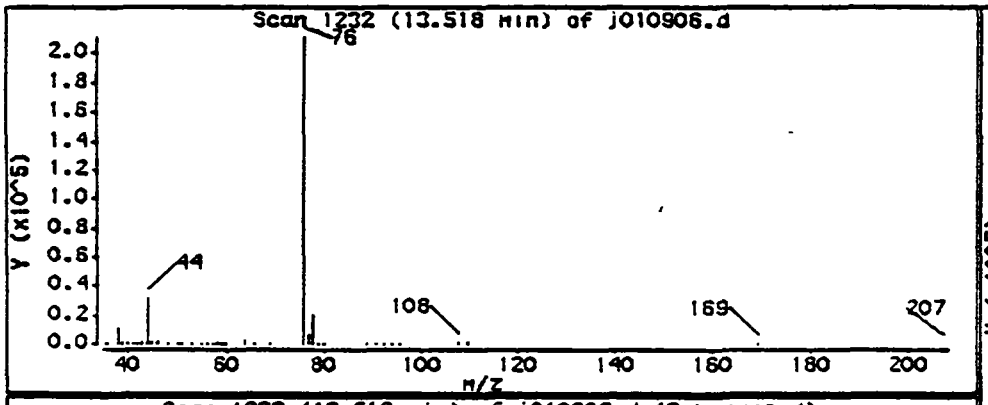
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

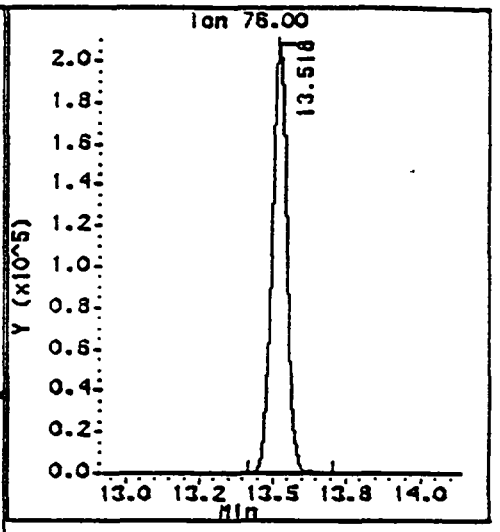
Operator: FR

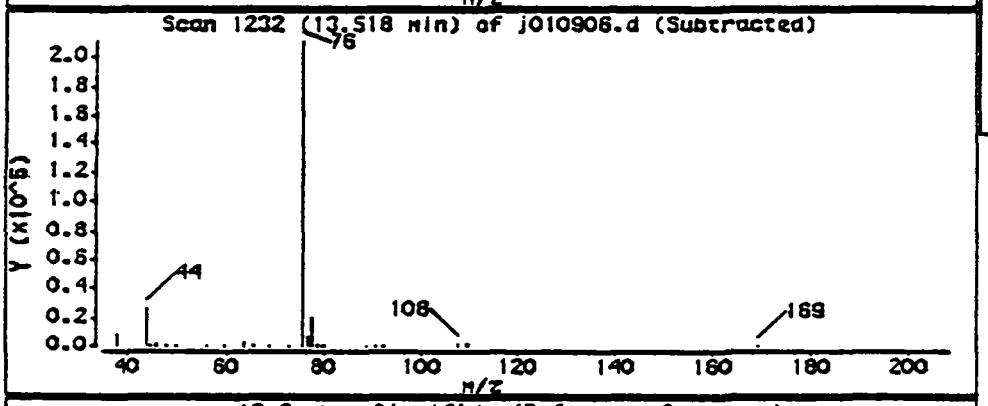
Column phase: RTx-624

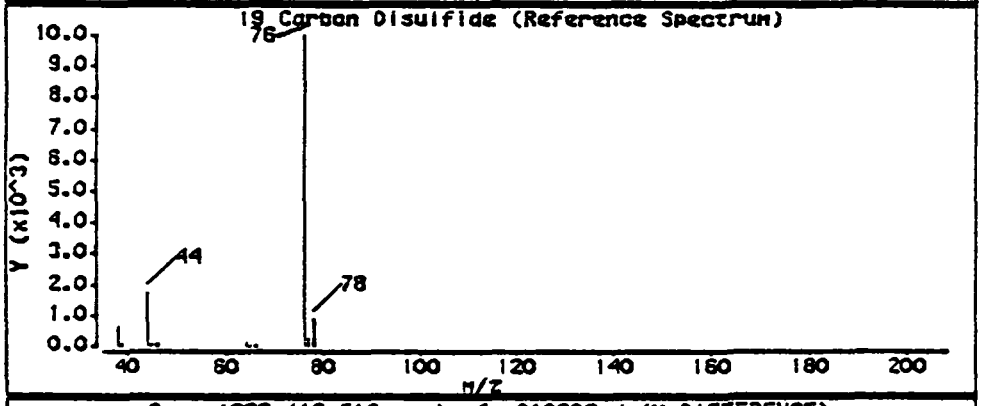
Column diameter: 0.58

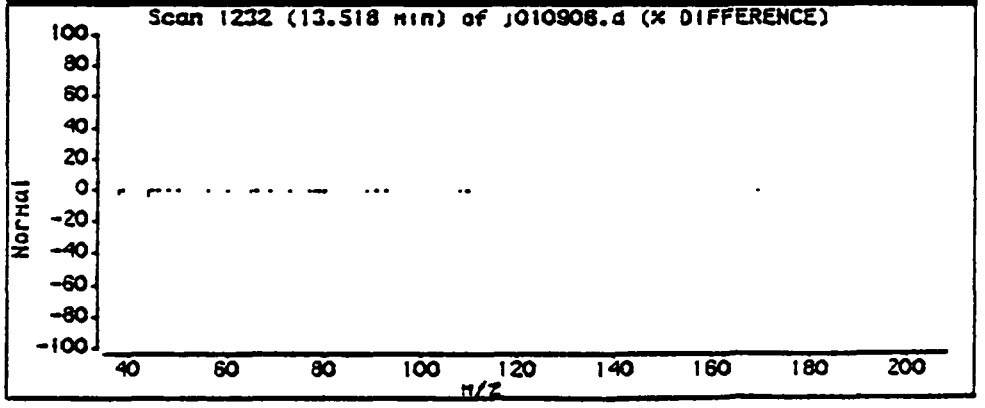
19 Carbon Disulfide











Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

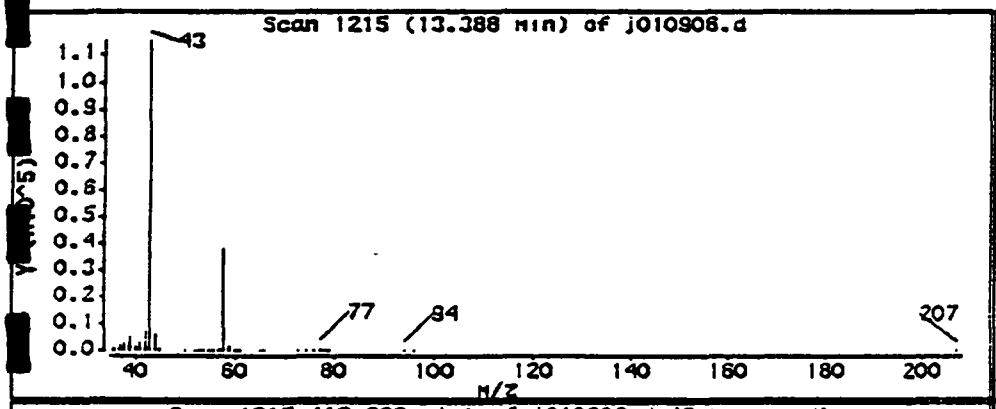
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

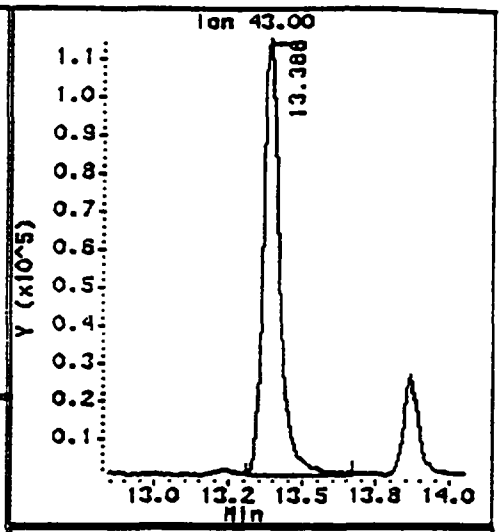
Operator: FR

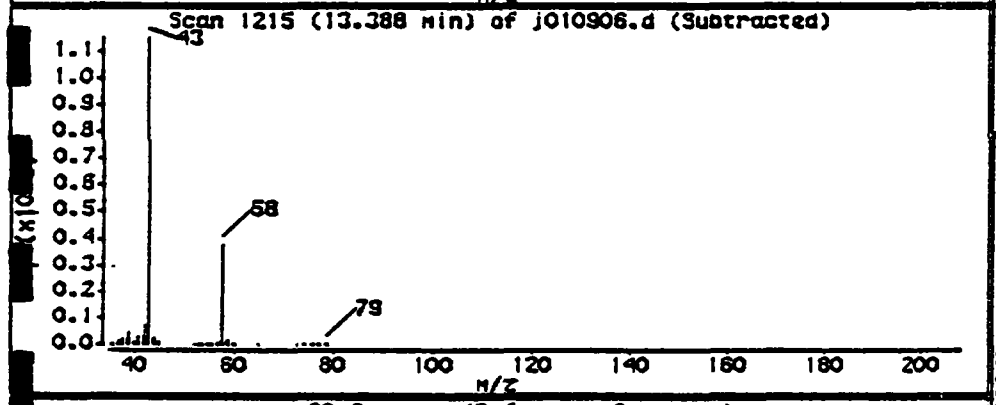
Column phase: RTx-624

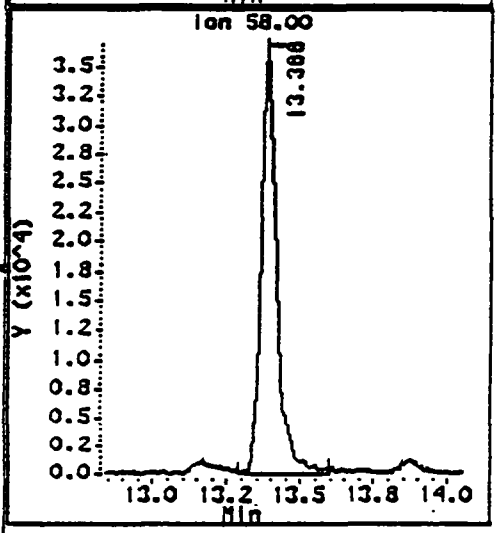
Column diameter: 0.58

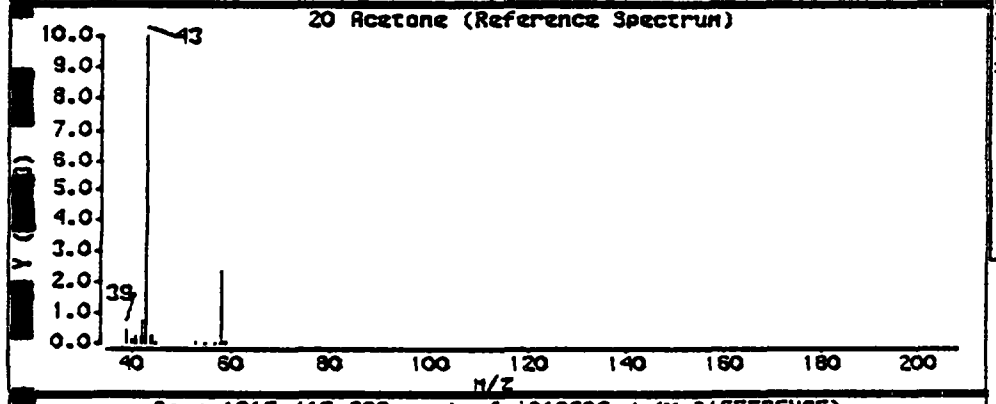
20 Acetone

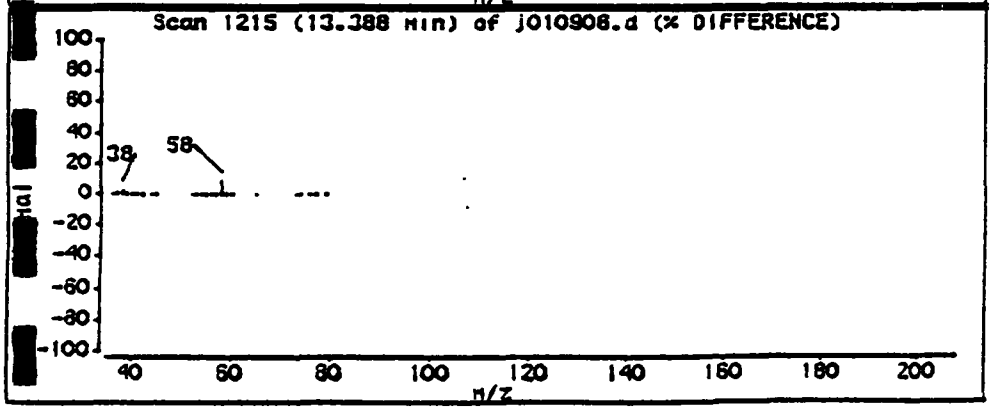












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

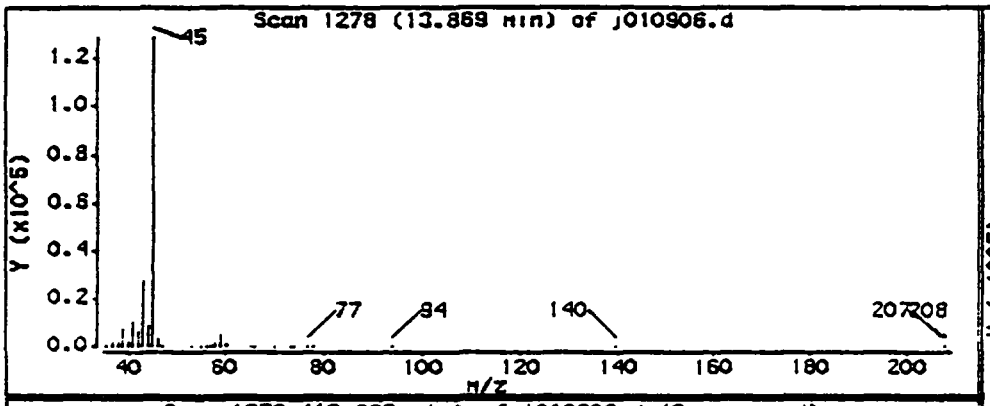
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

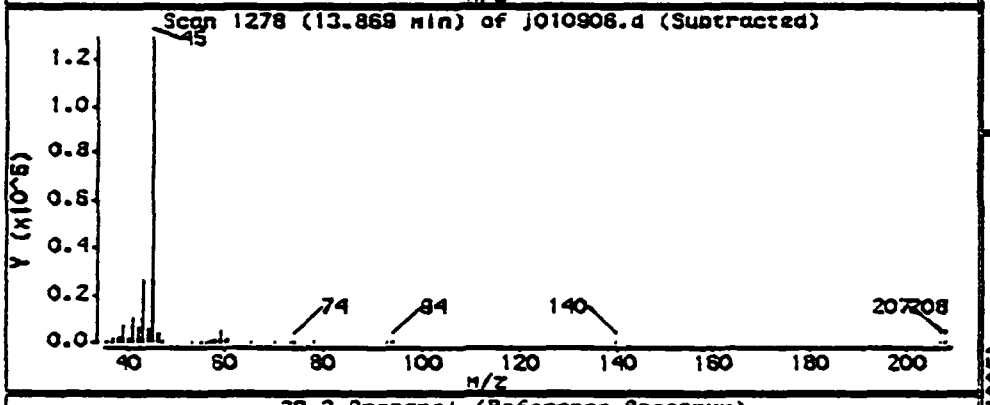
Operator: FA

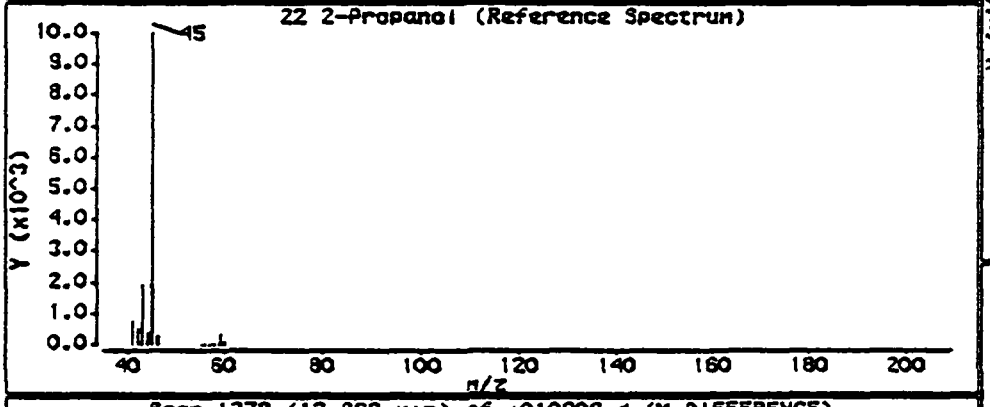
Column phase: RTx-624

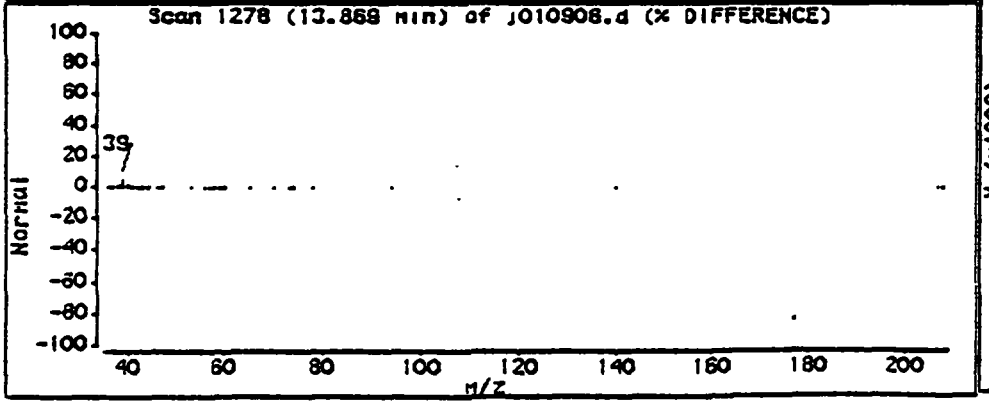
Column diameter: 0.58

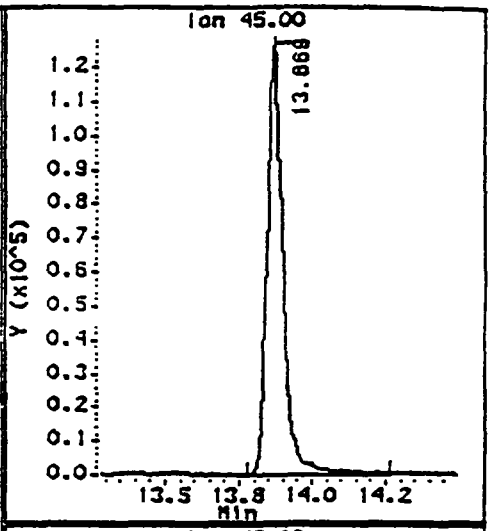
22 2-Propanol

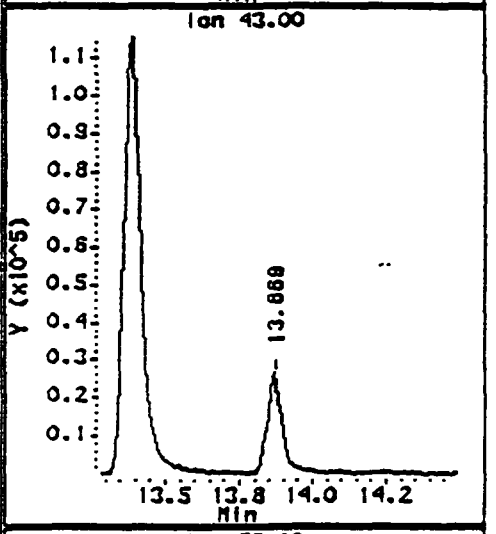


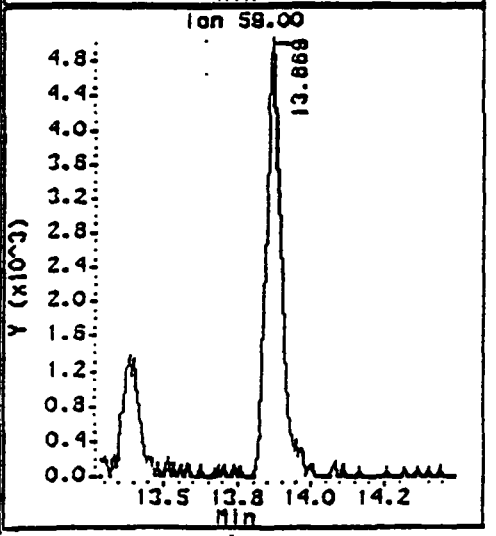












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

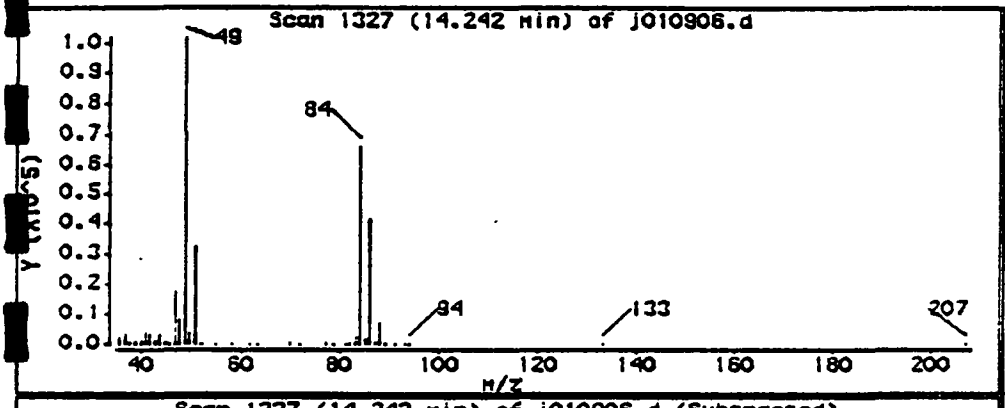
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

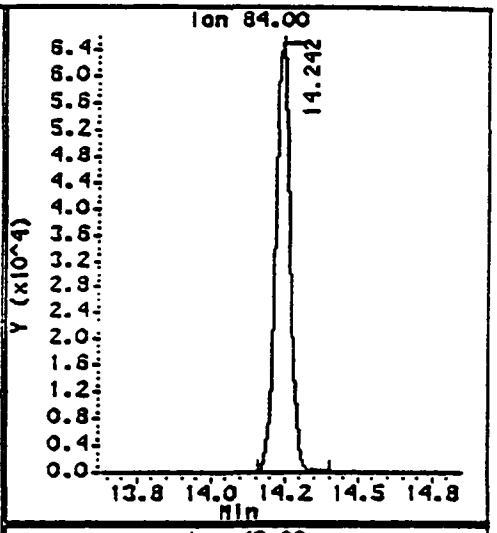
Operator: FA

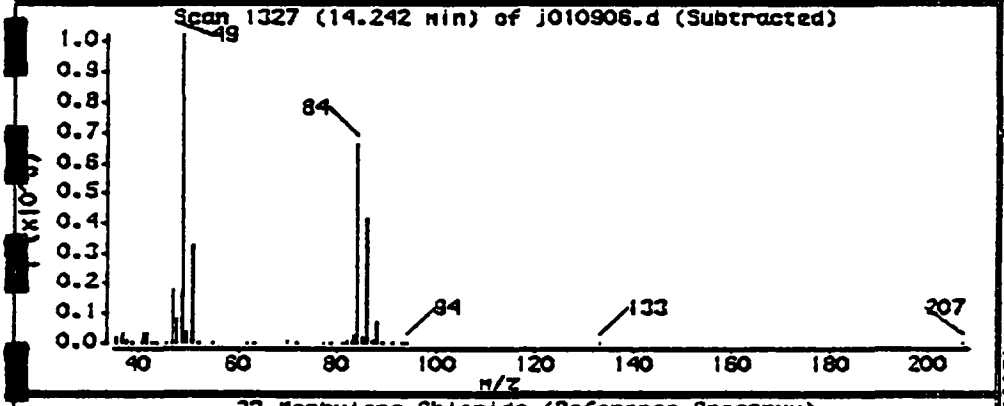
Column phase: RTx-624

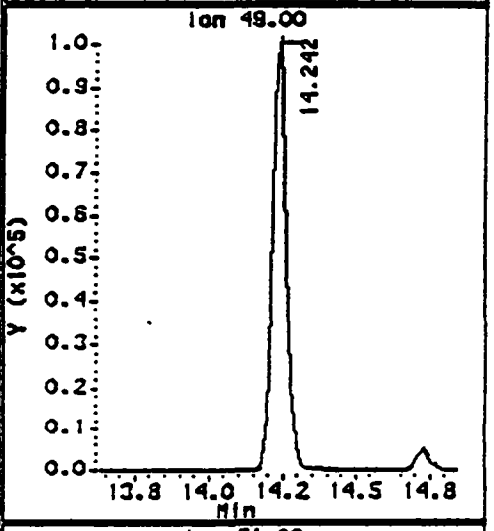
Column diameter: 0.58

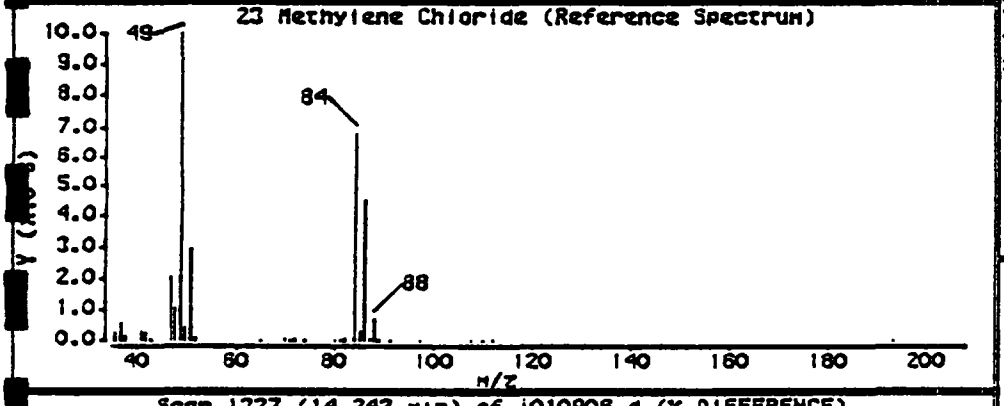
23 Methylene Chloride

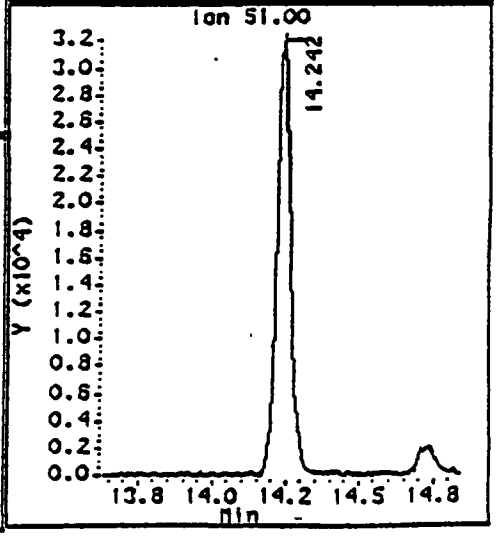


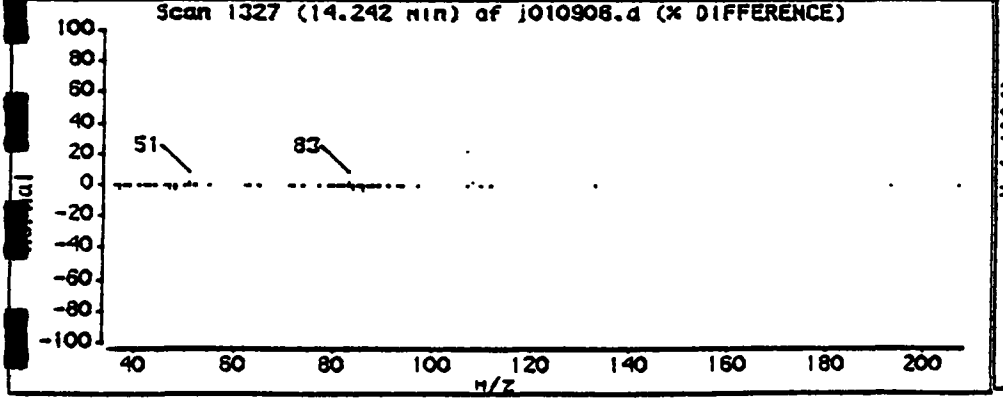












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

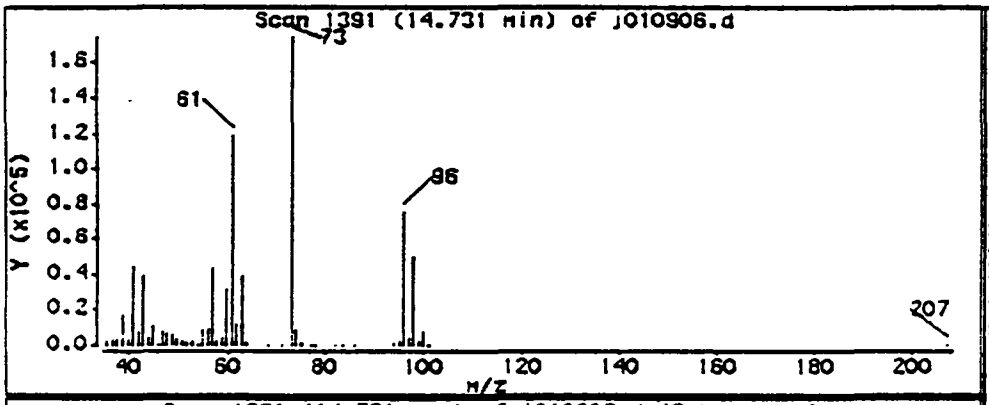
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

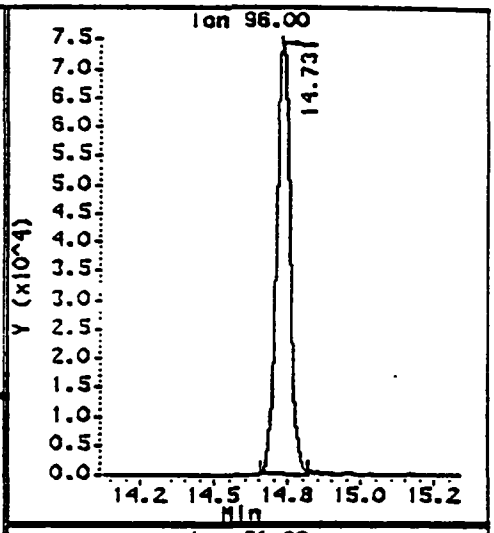
Operator: FA

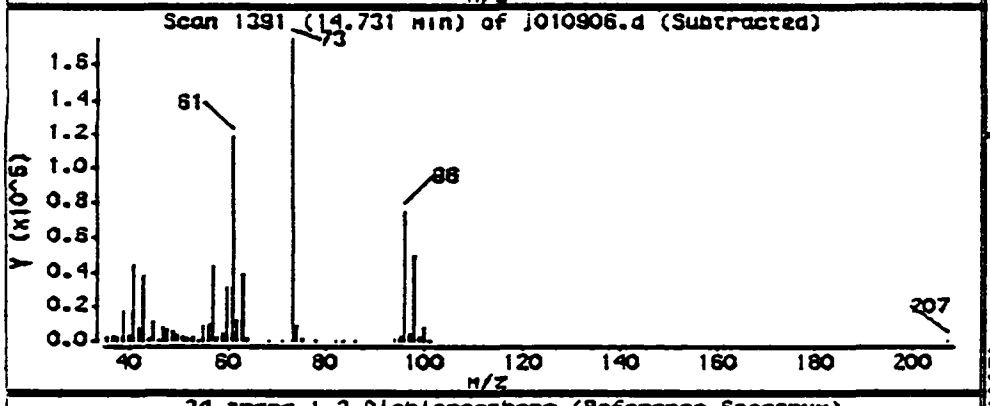
Column phase: RTx-624

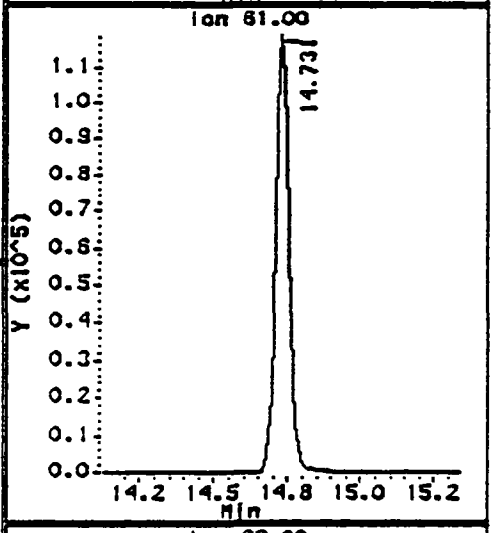
Column diameter: 0.58

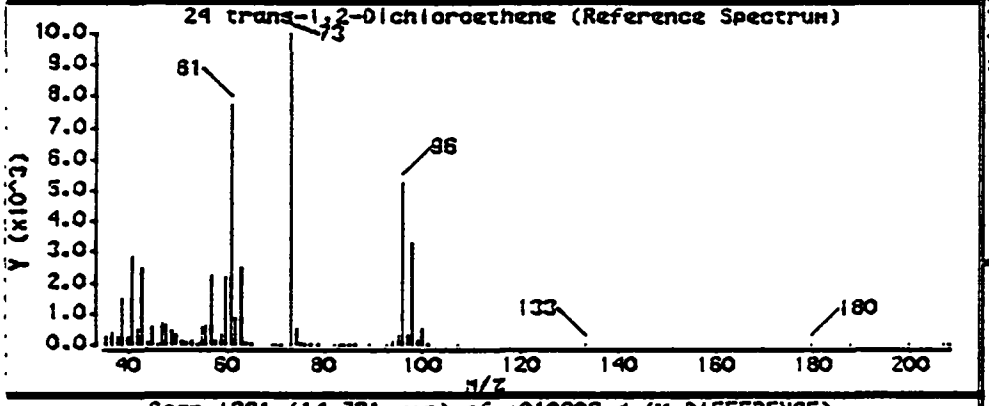
24 trans-1,2-Dichloroethene

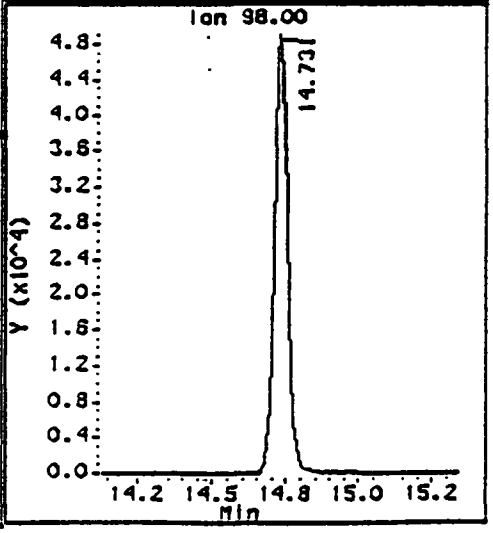


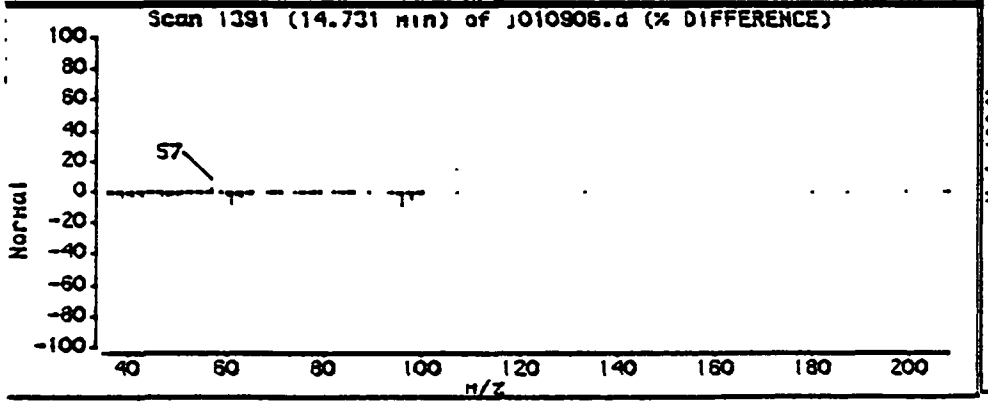












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

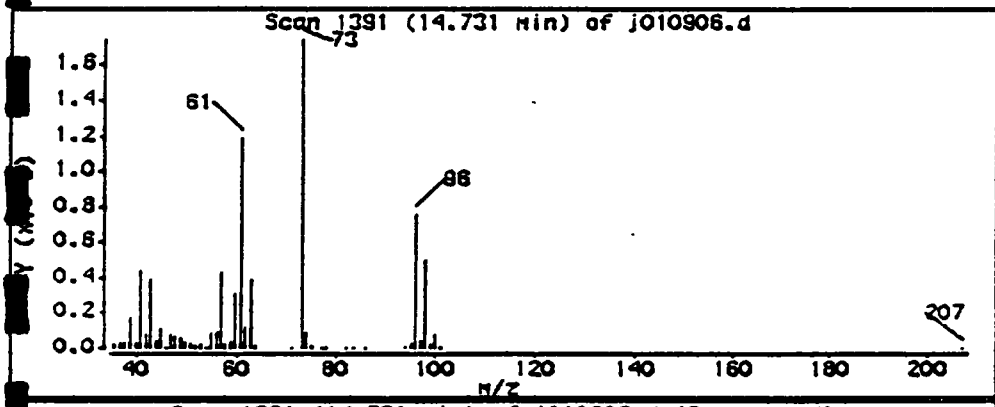
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

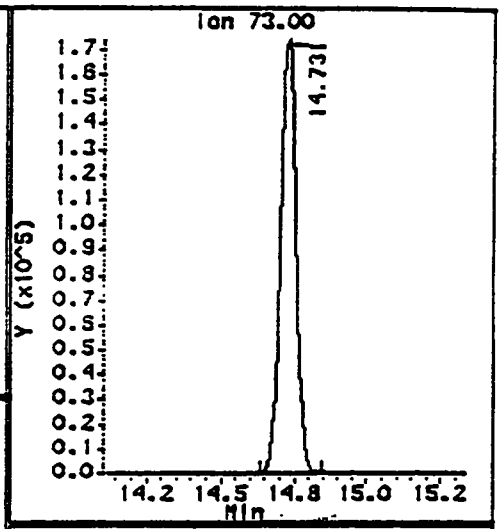
Operator: FR

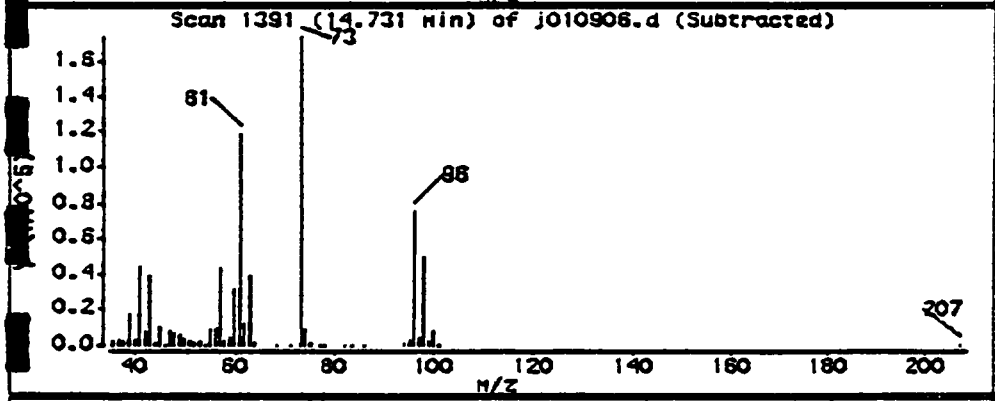
Column phase: RTx-624

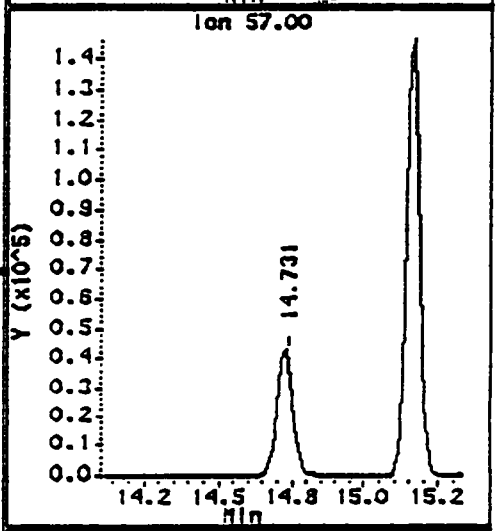
Column diameter: 0.58

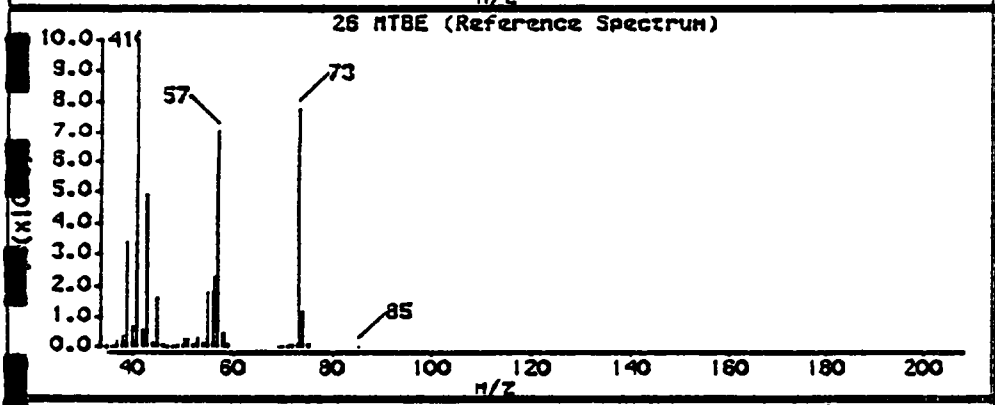
26 MTBE

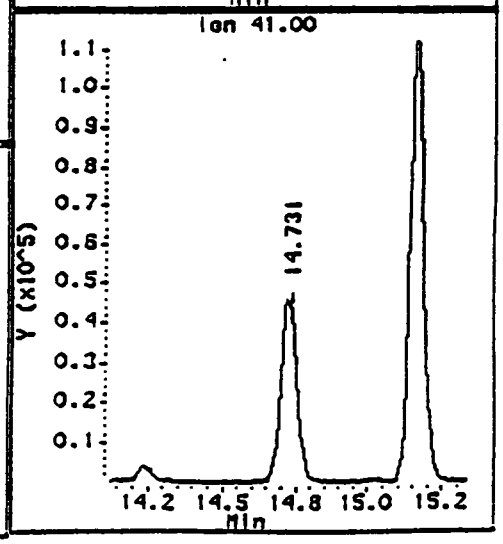


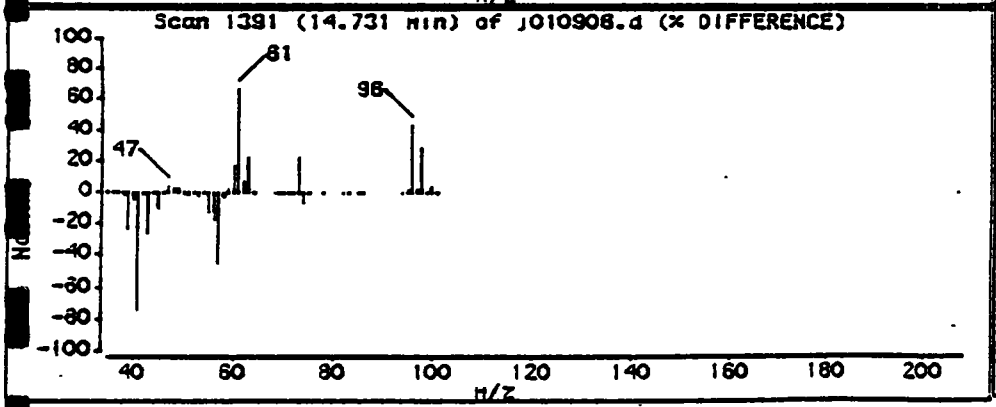












Data File: /chem/msdj.i/J-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

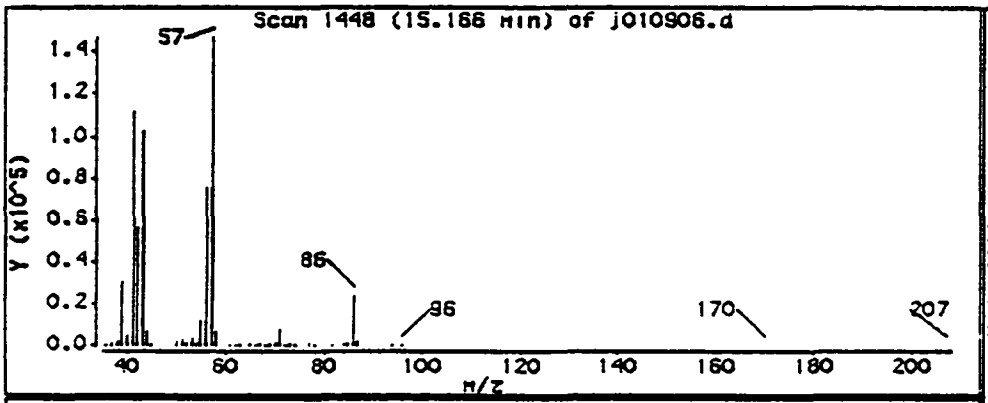
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

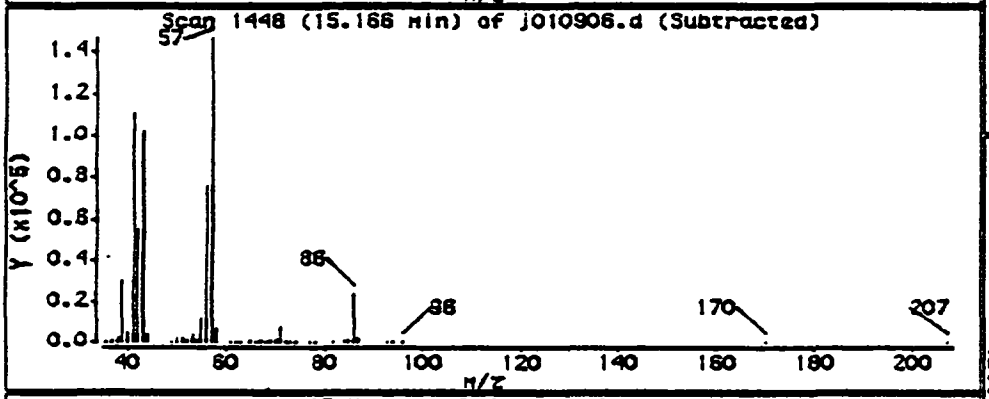
Operator: FR

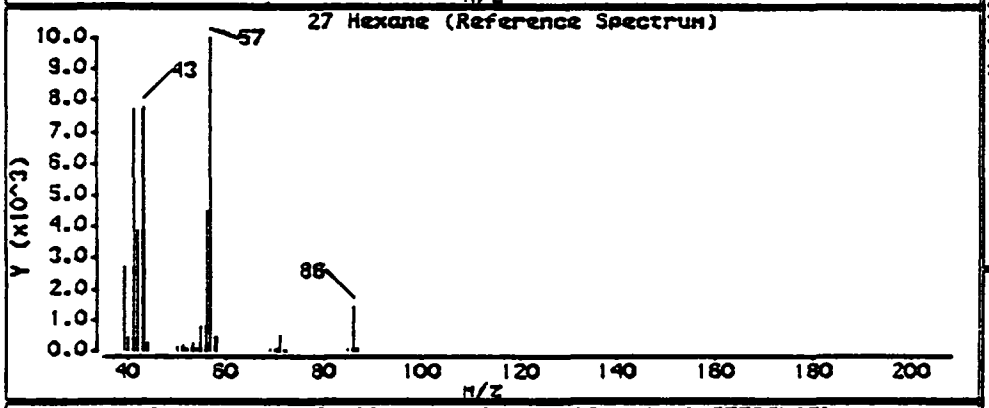
Column phase: RTx-624

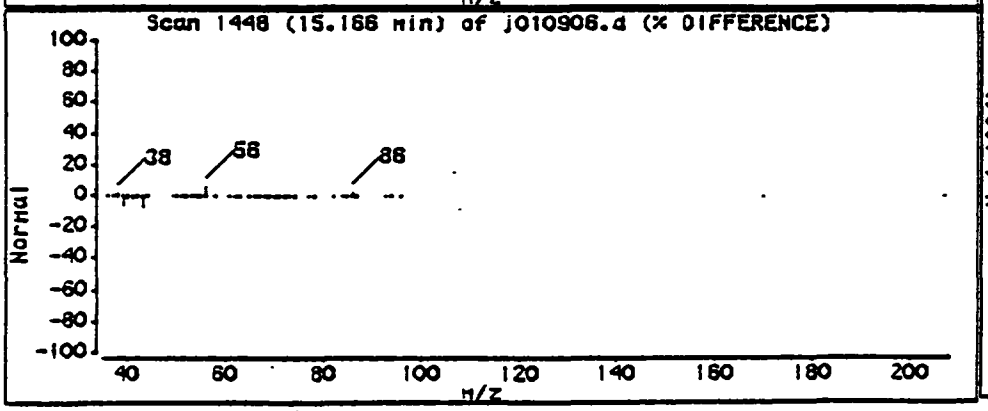
Column diameter: 0.58

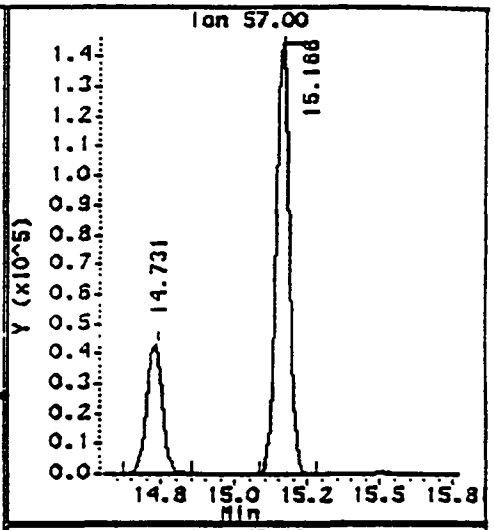
27 Hexane

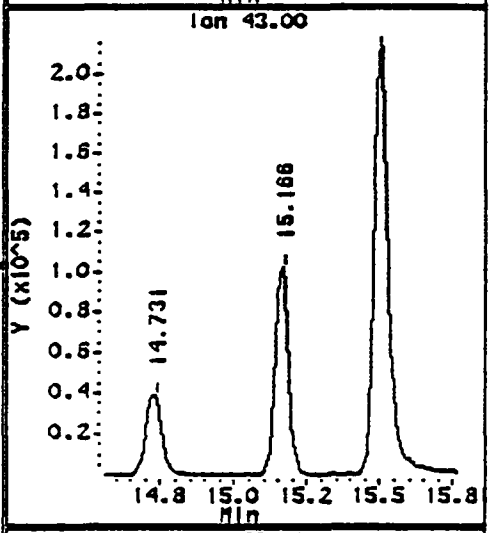


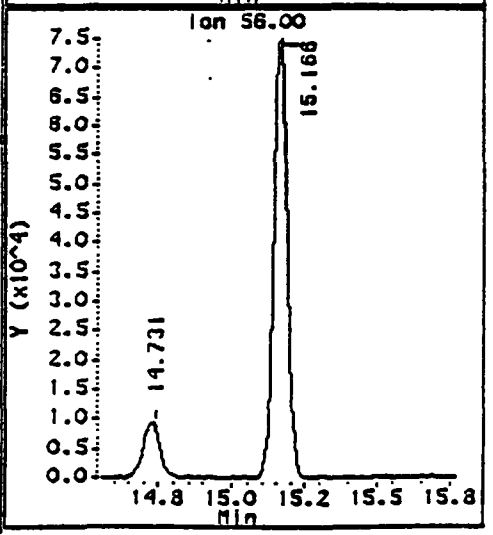












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

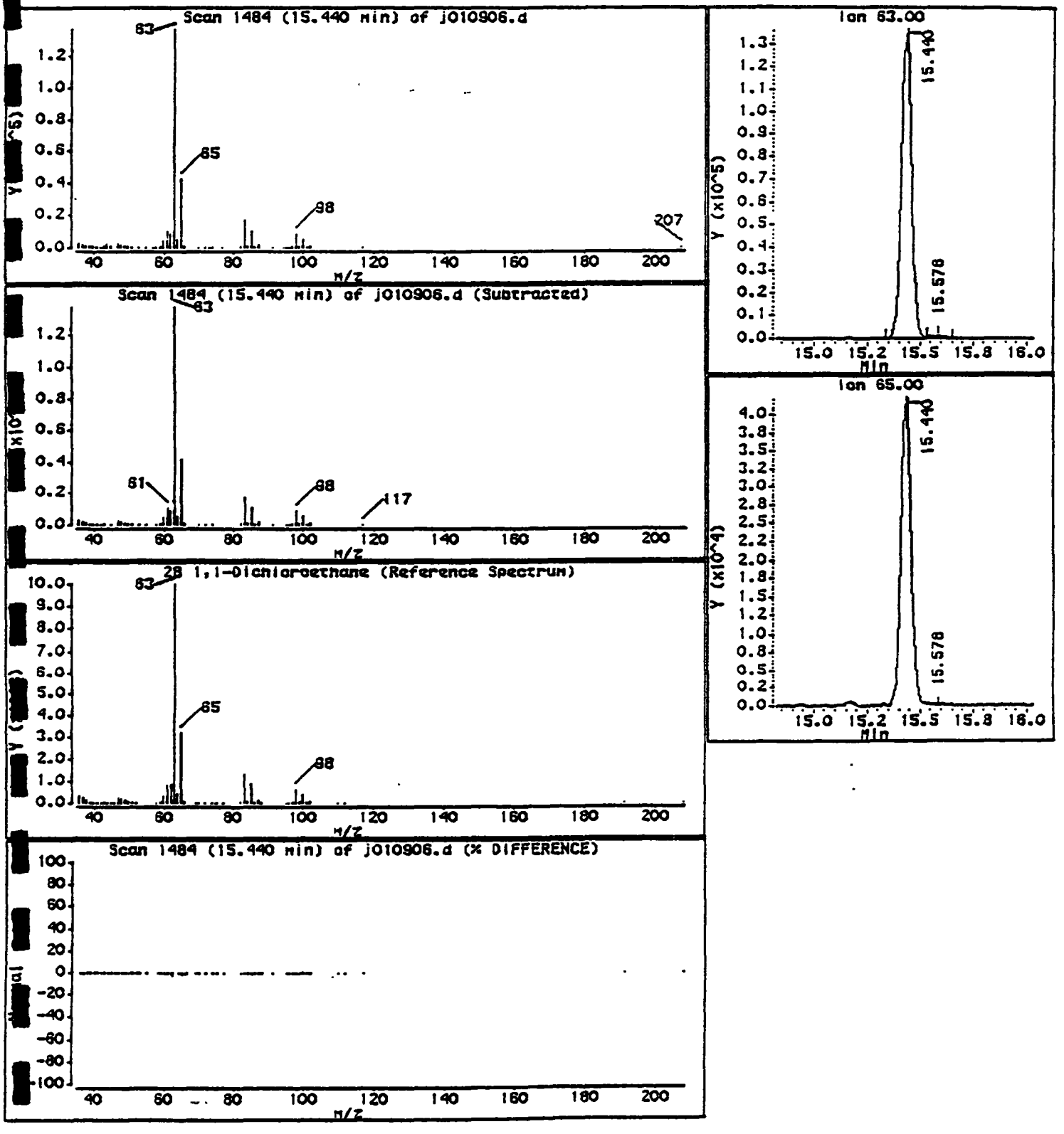
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

Operator: FR

Column phase: RTx-624

Column diameter: 0.58

28 1,1-Dichloroethane



Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

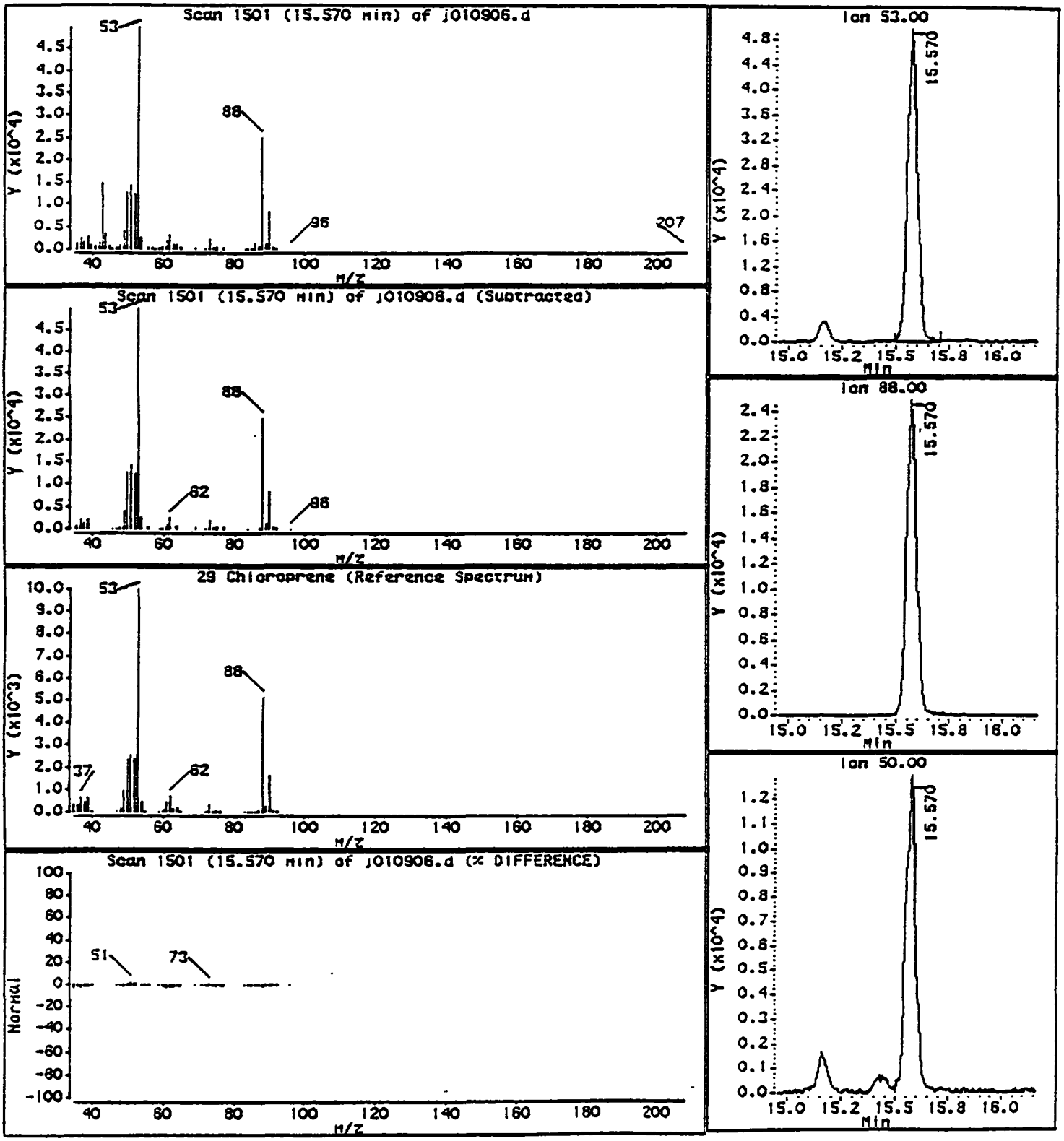
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

Operator: FR

Column phase: RTx-624

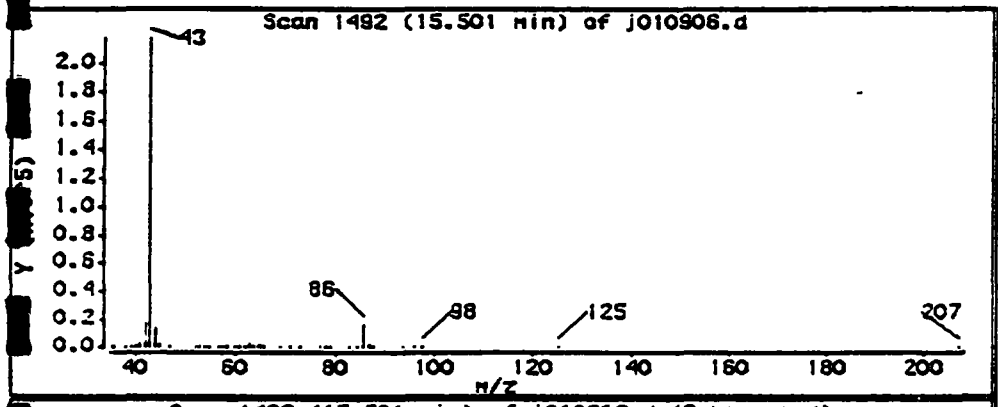
Column diameter: 0.58

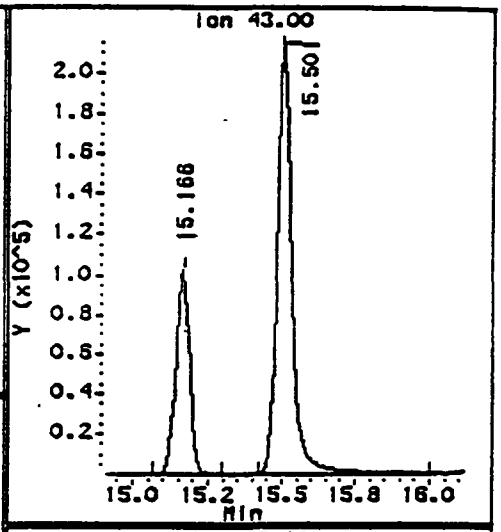
29 Chloroprene

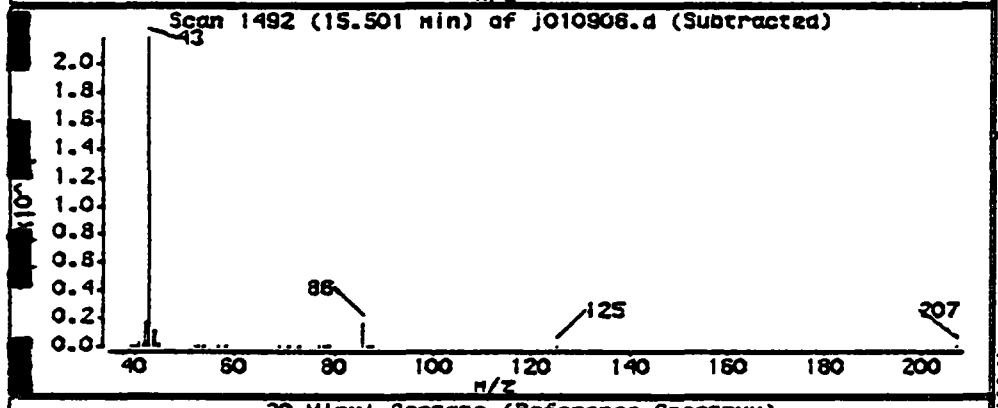


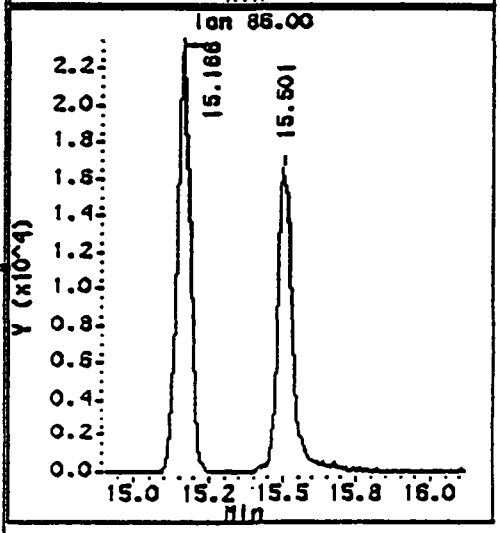
Data File: /chem/msdj.i/j-09jan.b/j010906.d
Date : 09-JAN-97 10:44
Client ID: VSTD005
Instrument: msdj.i
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)
Operator: FR
Column phase: RTx-624
Column diameter: 0.58

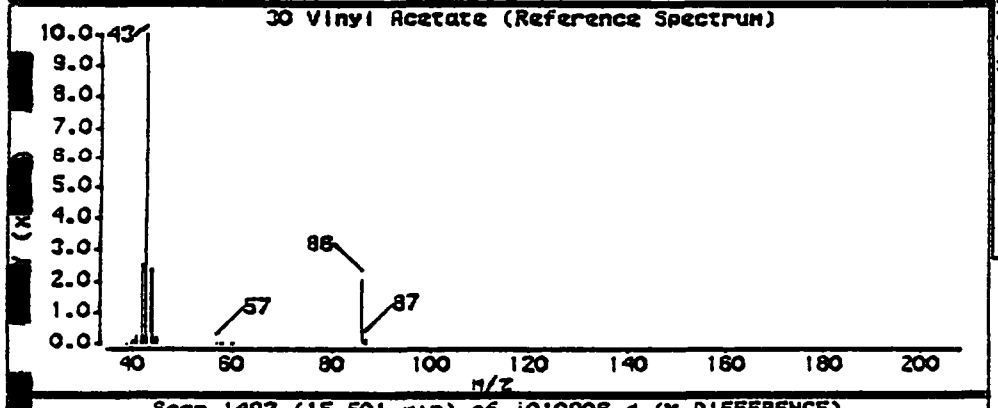
30 Vinyl Acetate

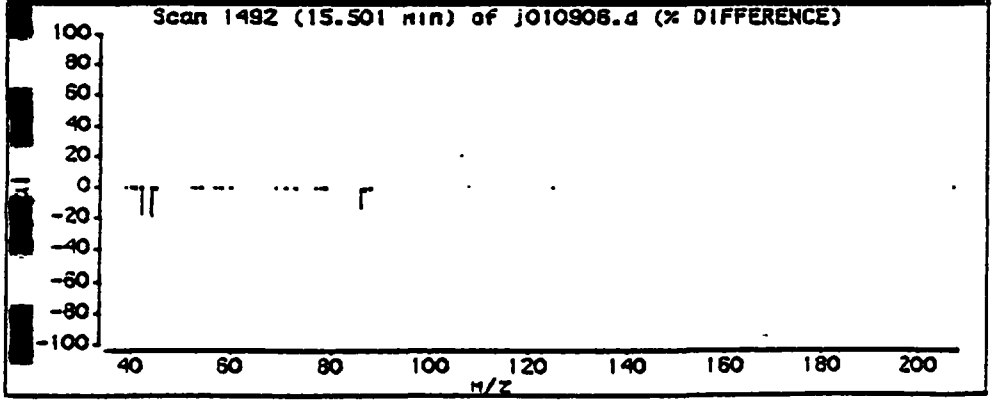












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

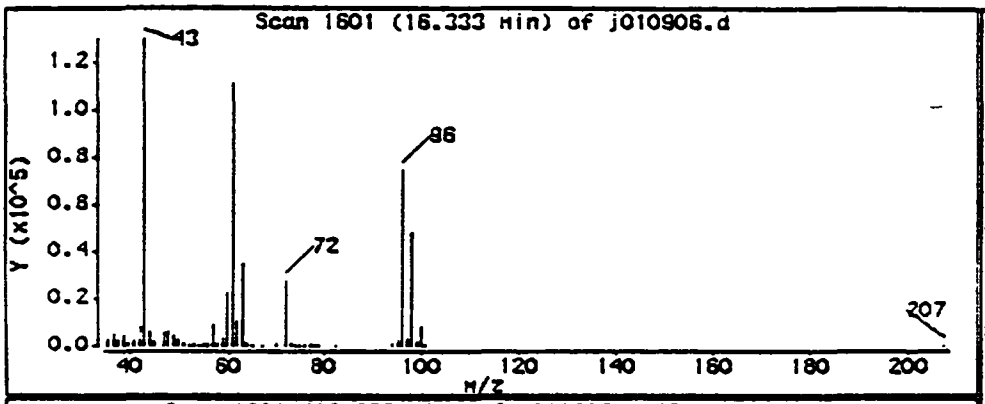
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

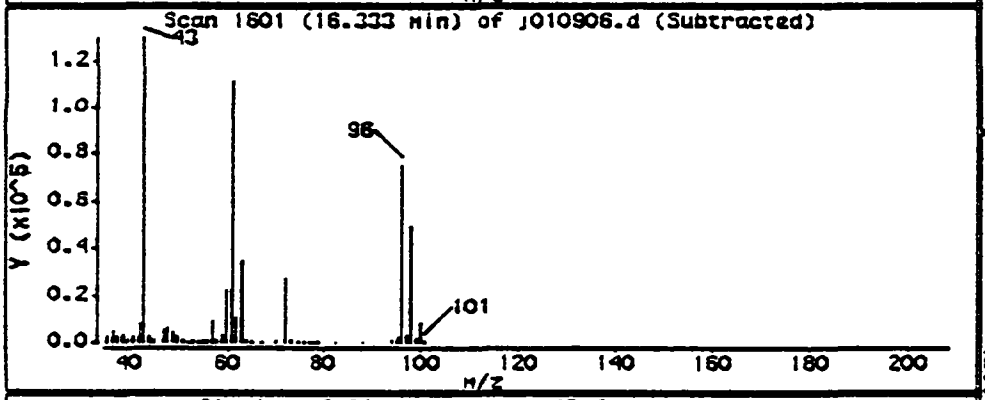
Operator: FR

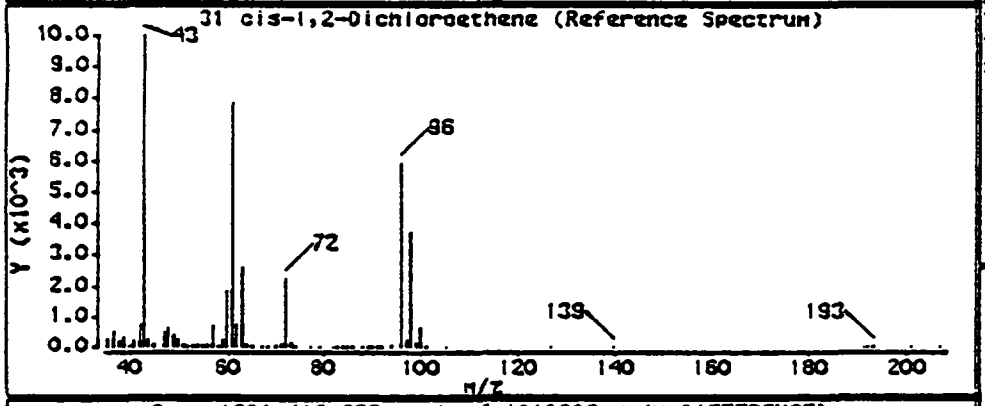
Column phase: RTx-624

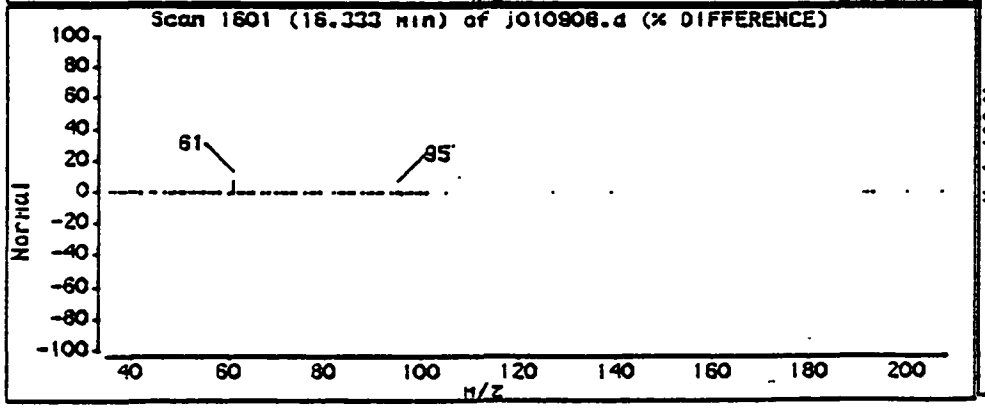
Column diameter: 0.58

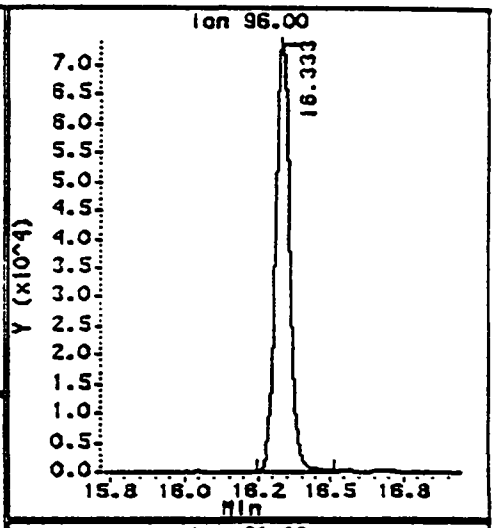
31 cis-1,2-Dichloroethene

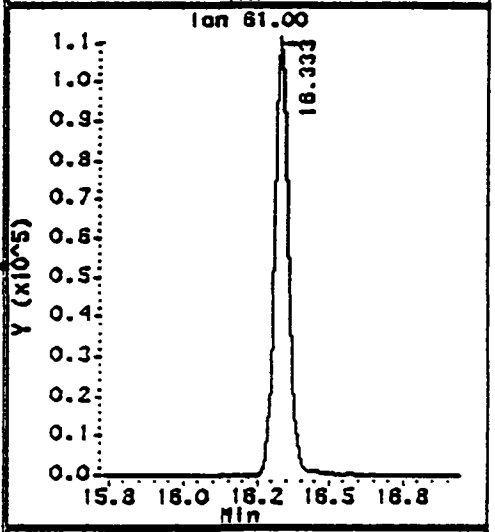


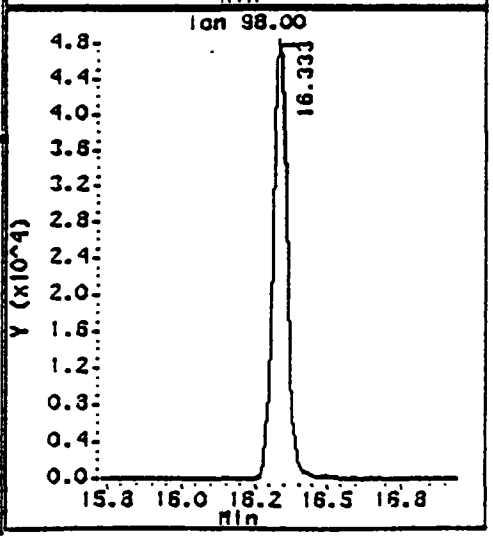












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

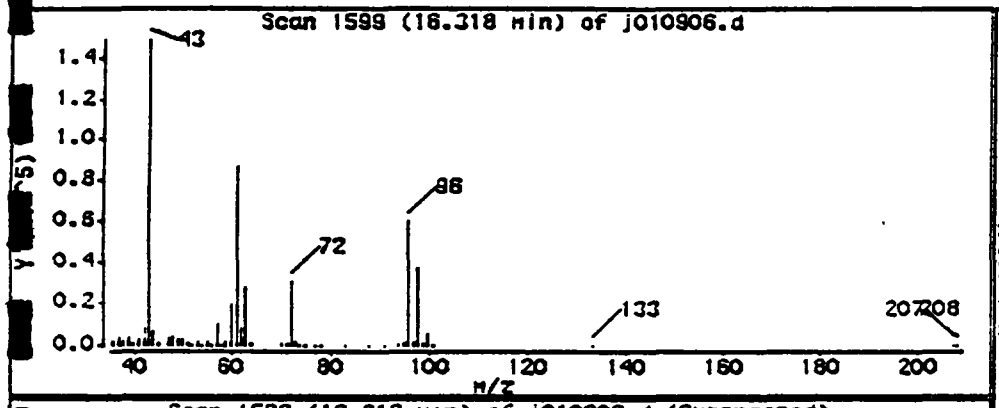
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

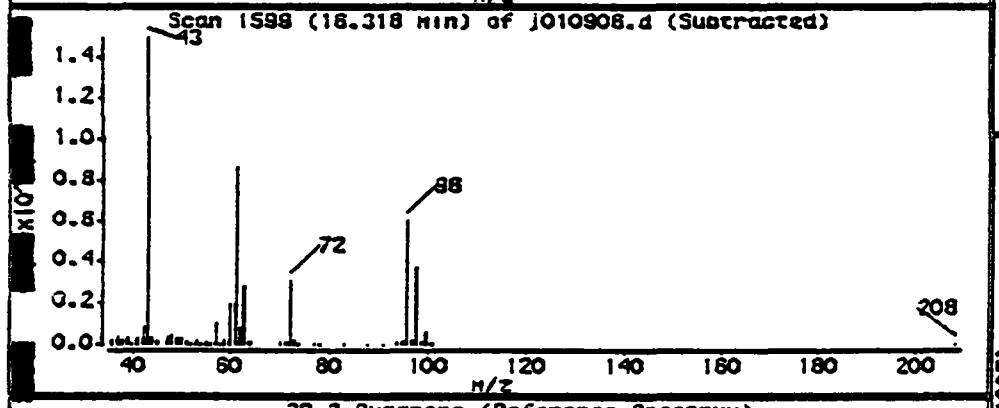
Operator: FA

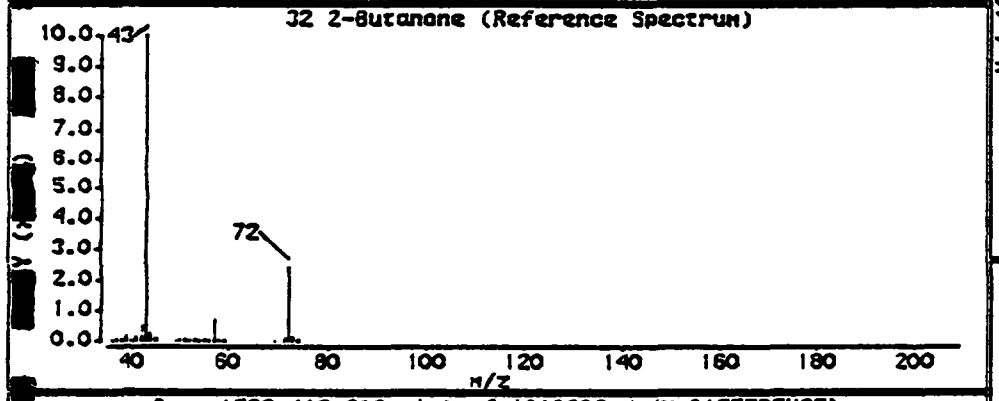
Column phase: RTx-624

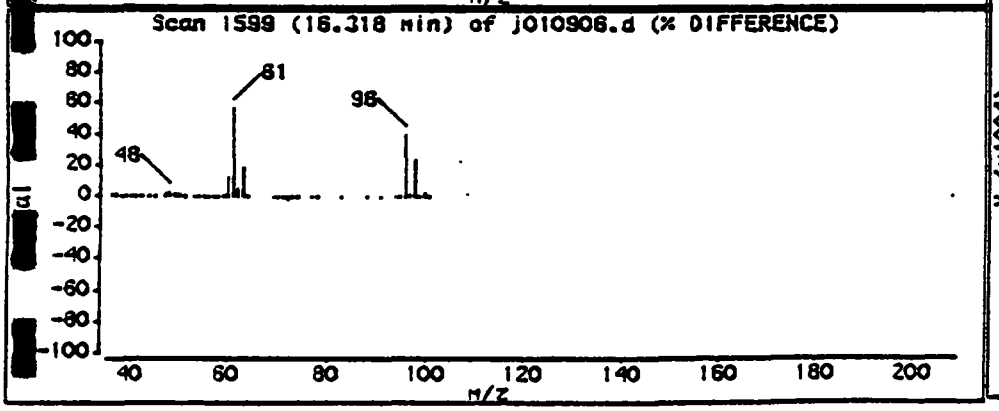
Column diameter: 0.58

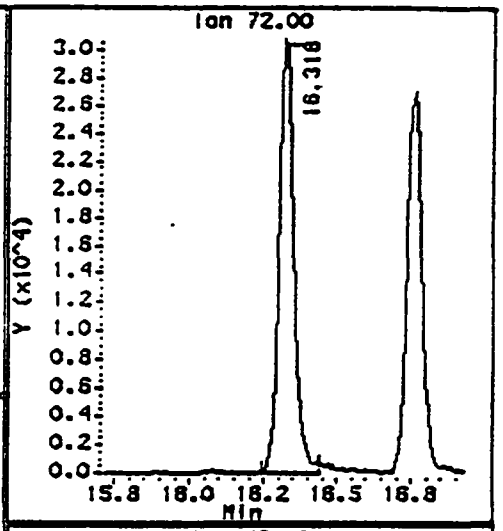
32 2-Butanone

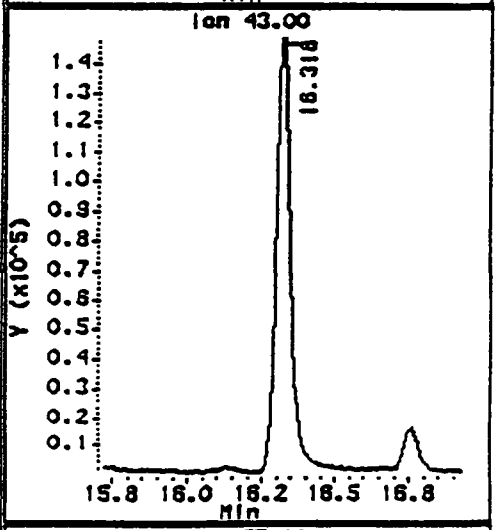


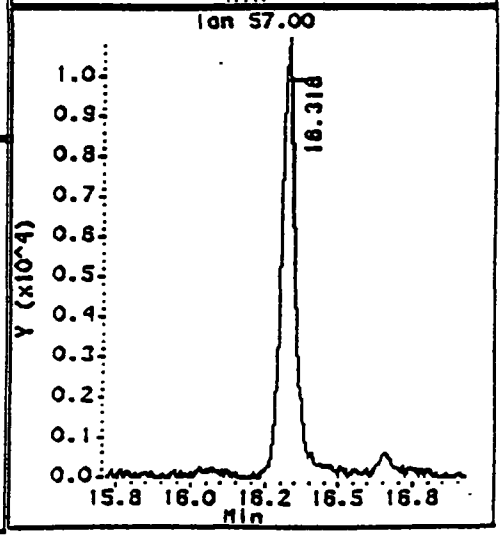












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

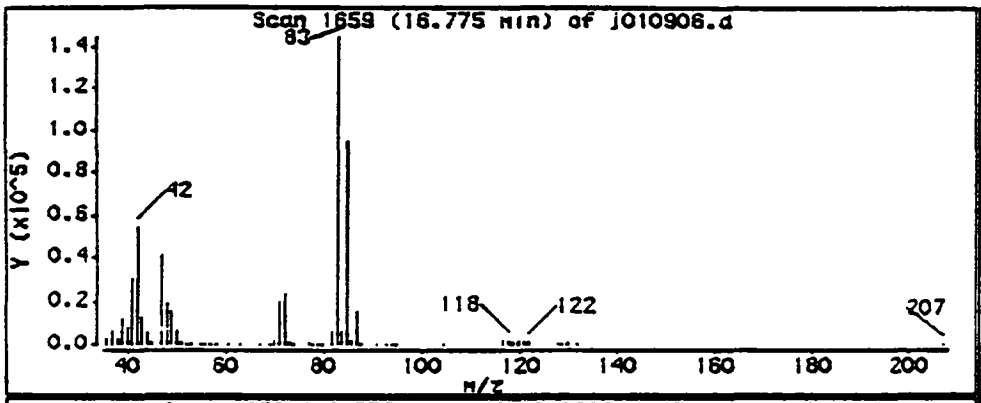
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

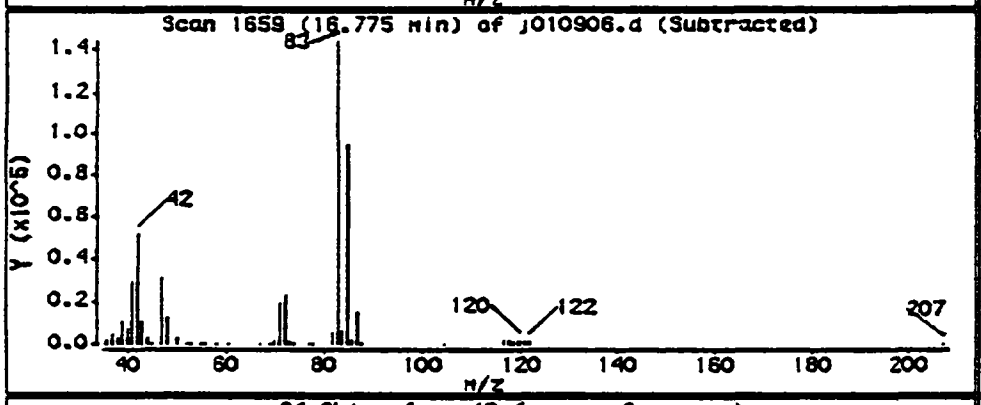
Operator: FR

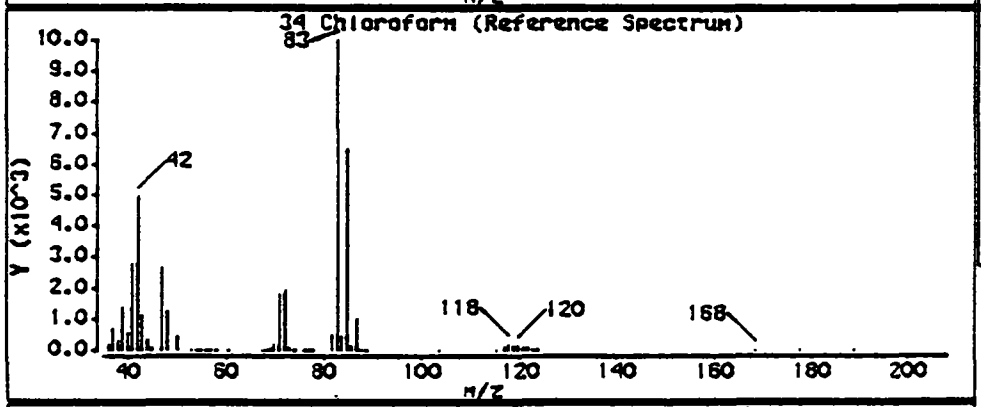
Column phase: RTx-624

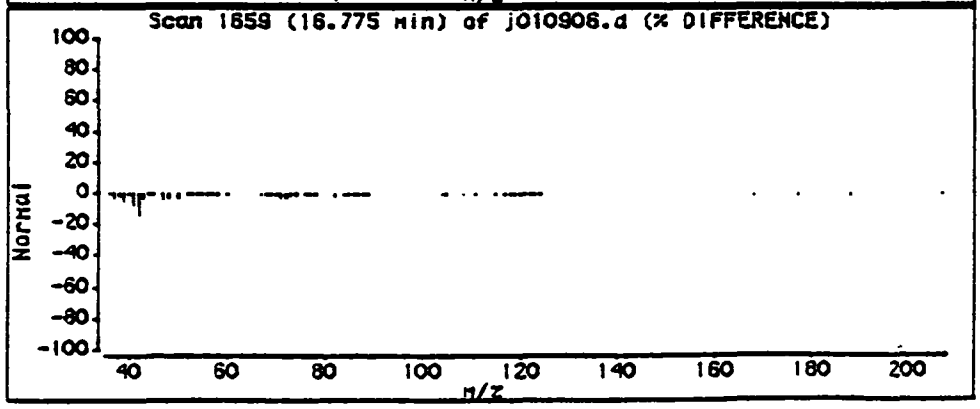
Column diameter: 0.58

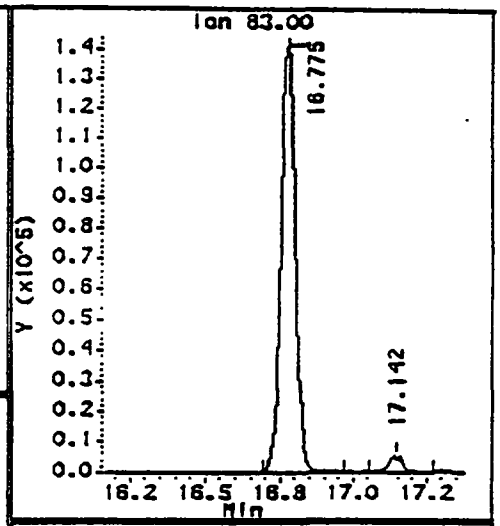
34 Chloroform

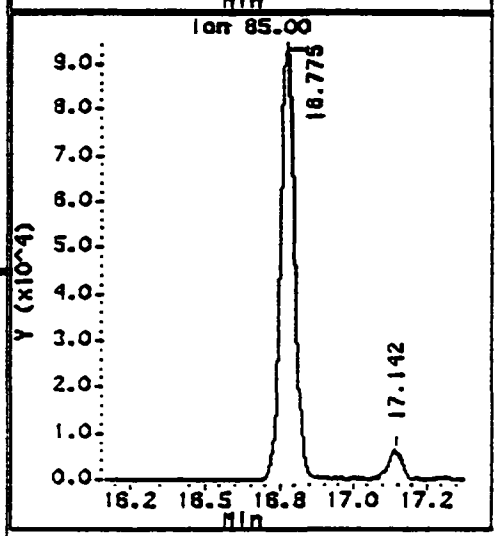












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

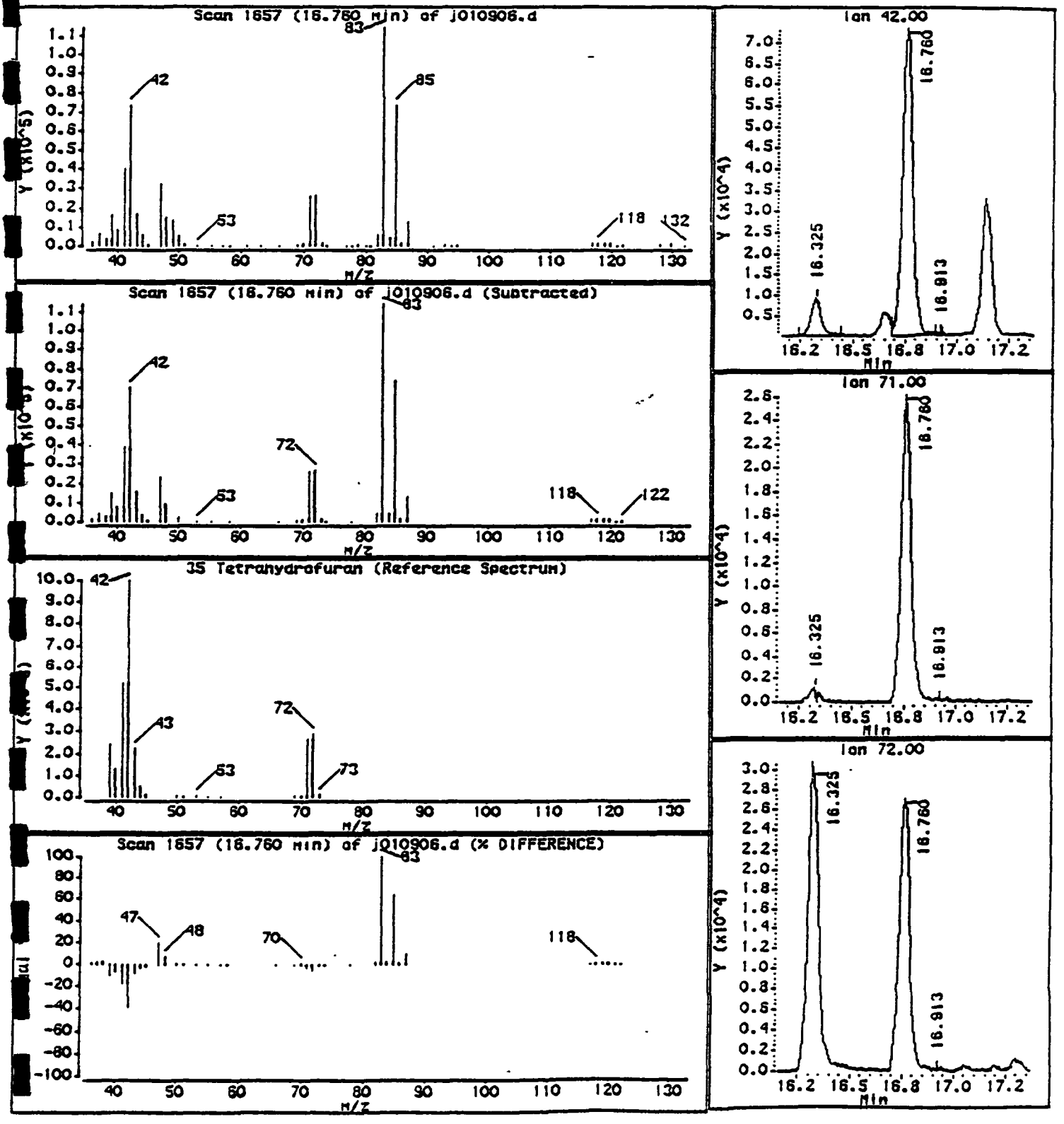
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

Operator: FA

Column phase: RTx-624

Column diameter: 0.58

3S Tetrahydrofuran



Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

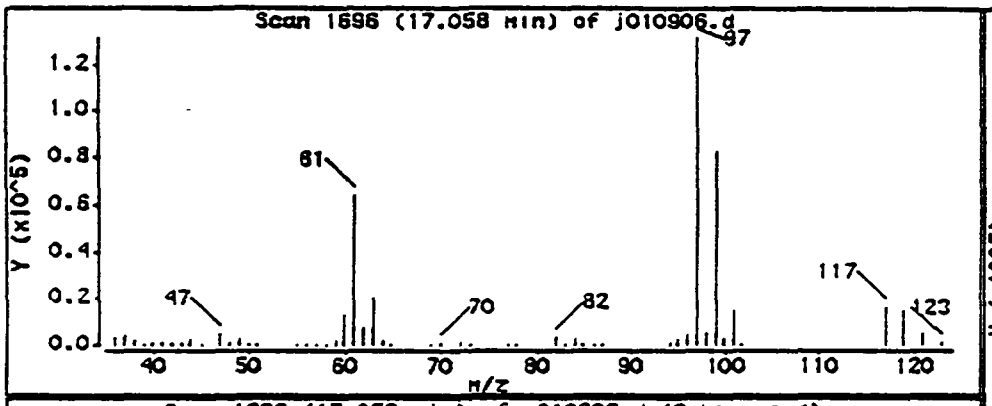
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

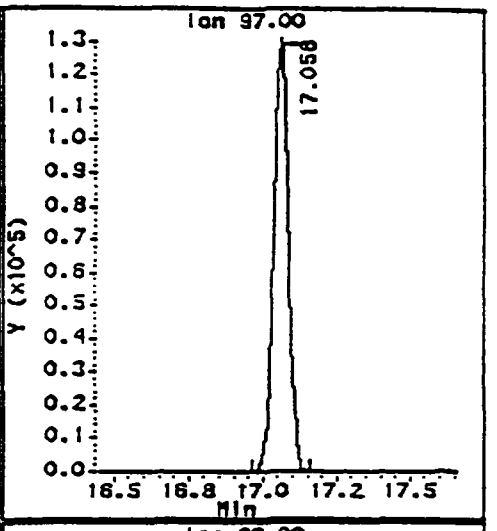
Operator: FR

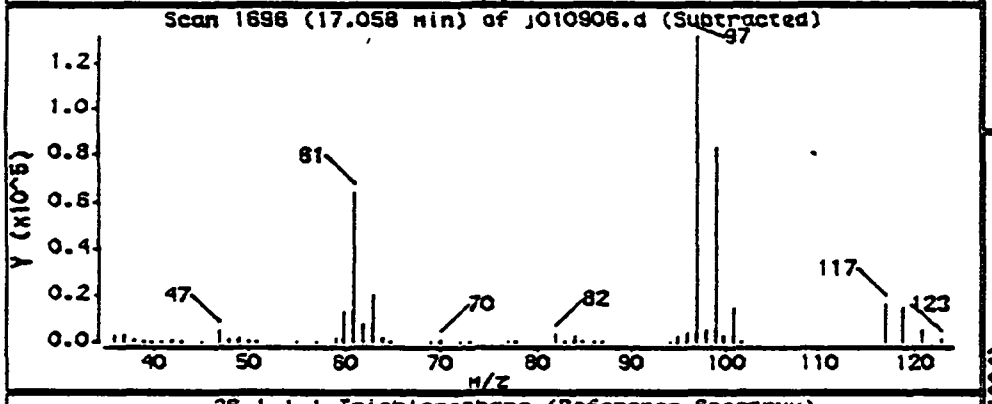
Column phase: RTx-624

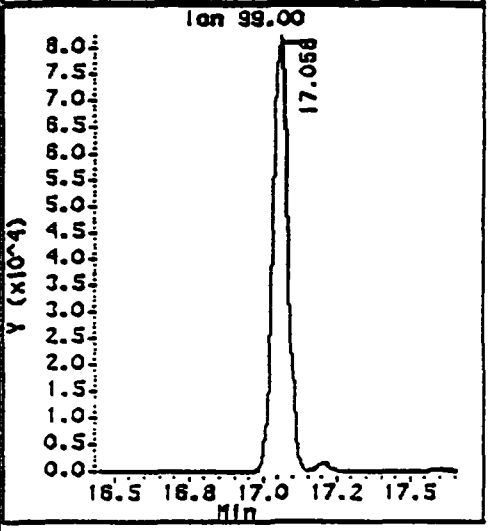
Column diameter: 0.58

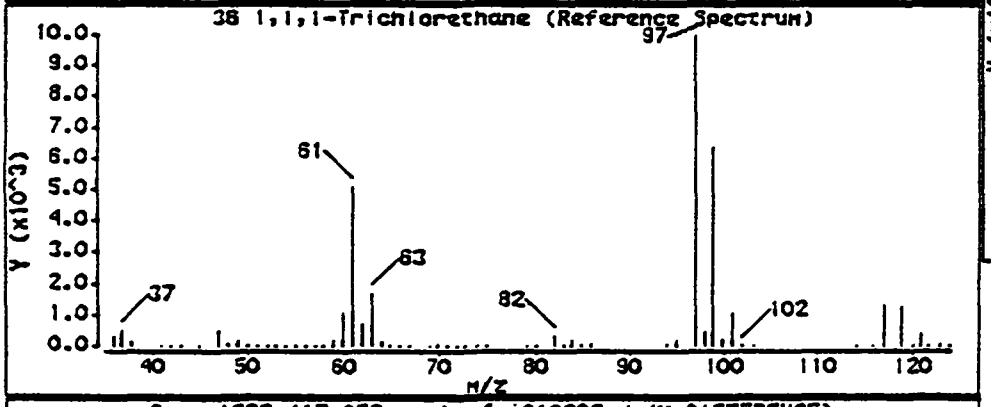
36 1,1,1-Trichloroethane

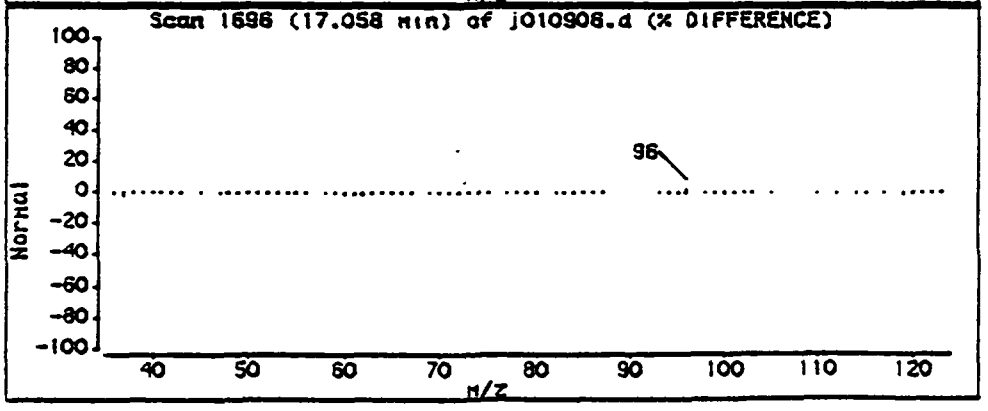












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

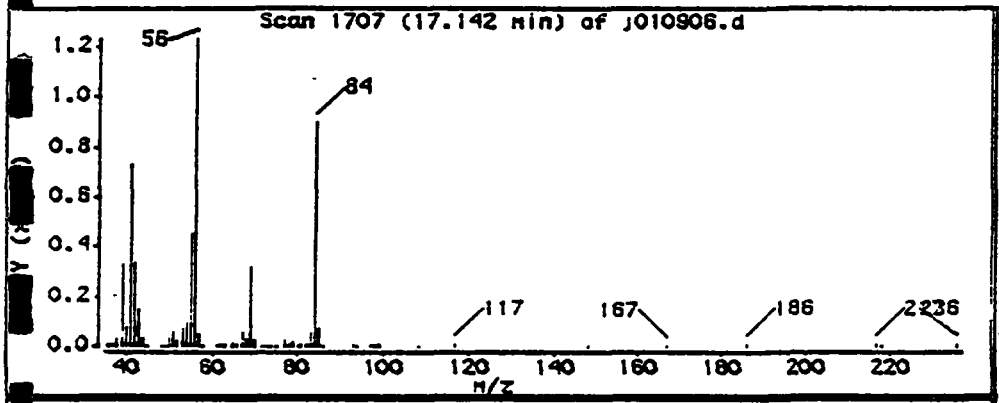
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

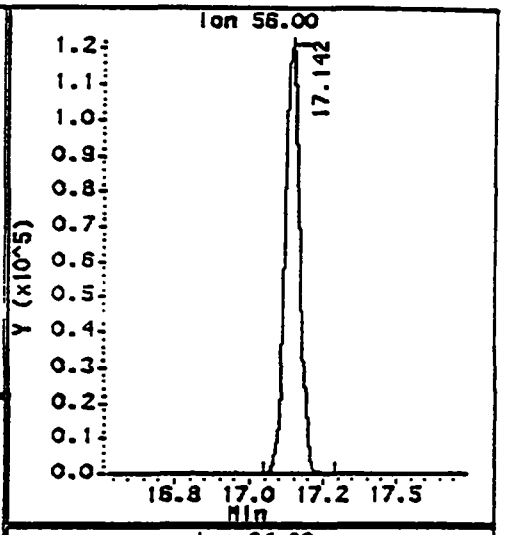
Operator: FR

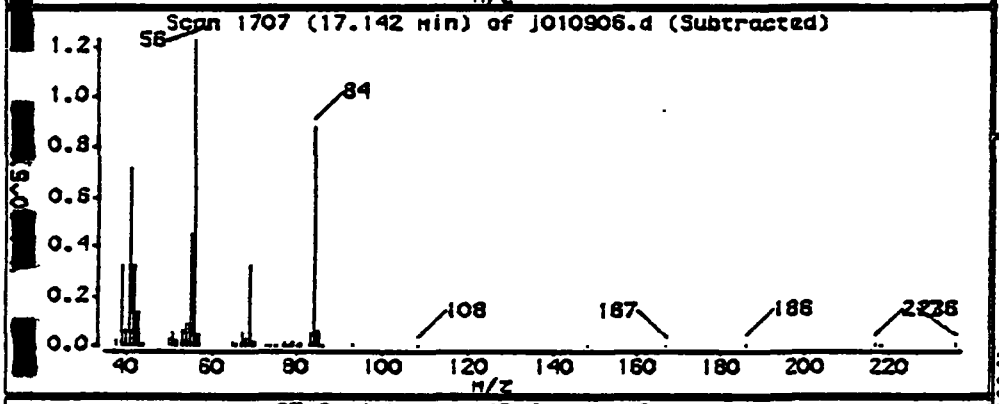
Column phase: RTx-624

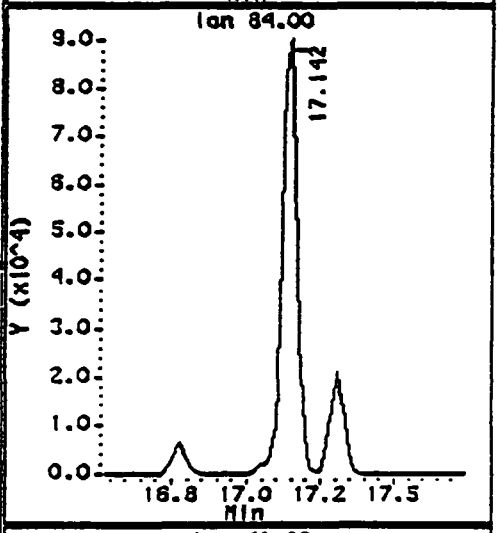
Column diameter: 0.58

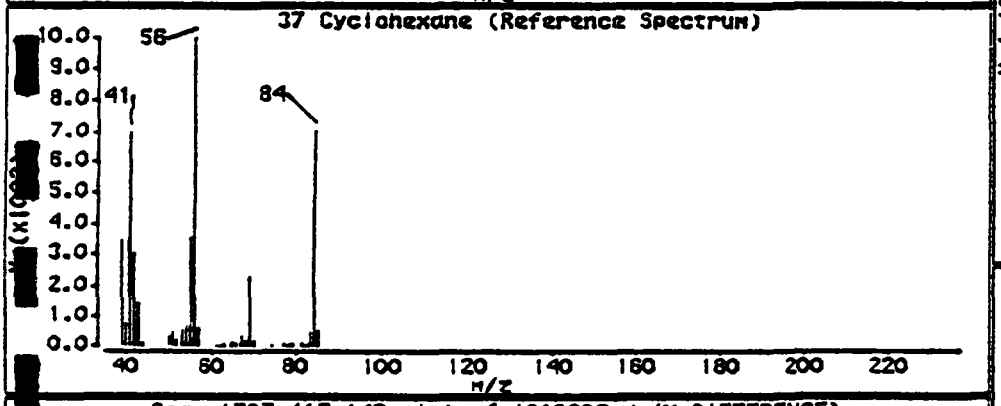
37 Cyclohexane

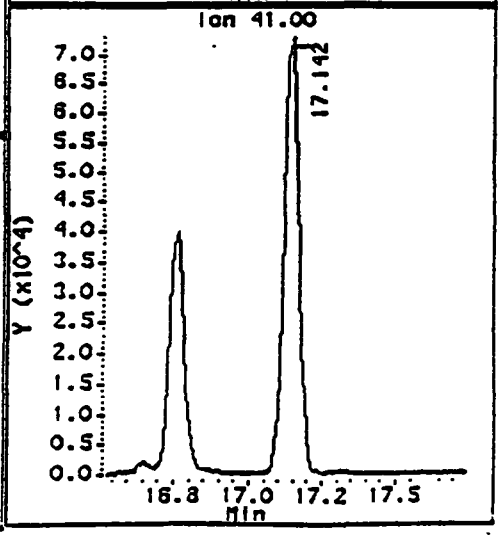


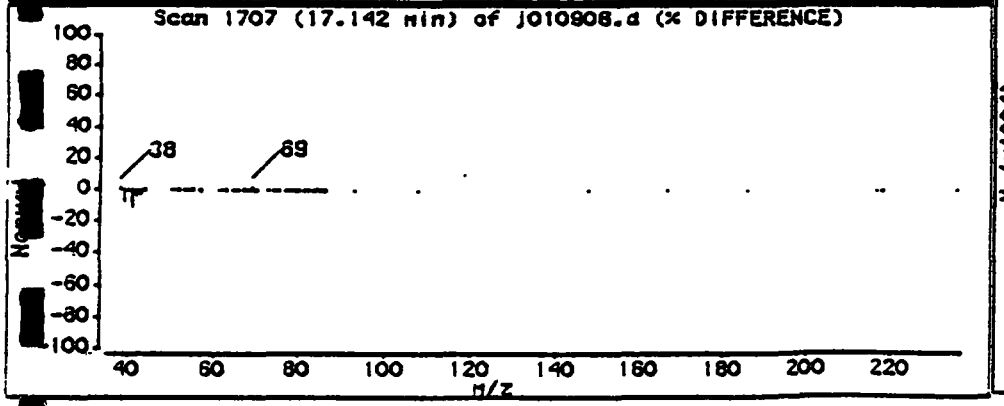












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

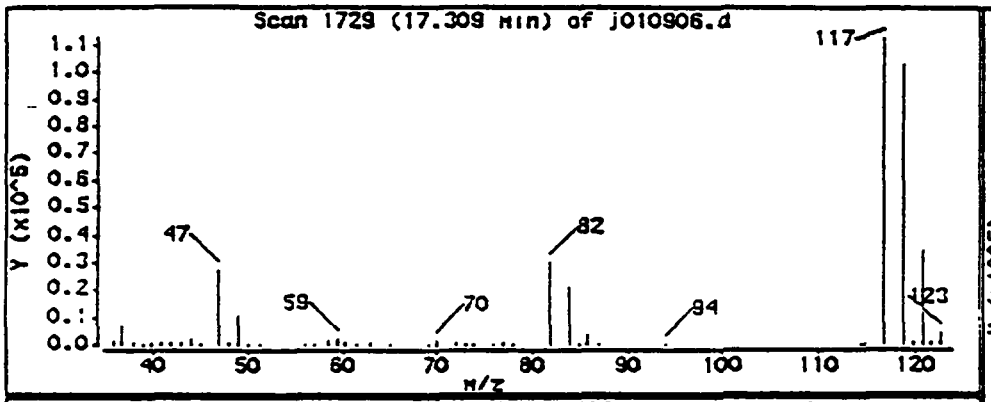
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

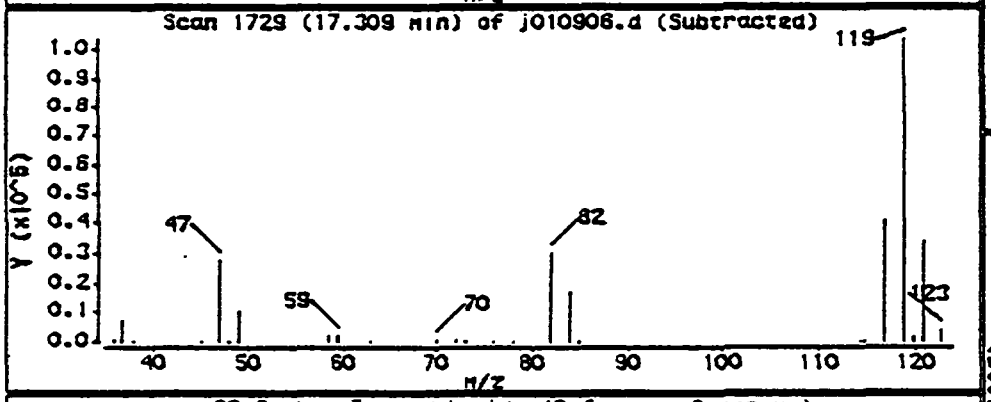
Operator: FR

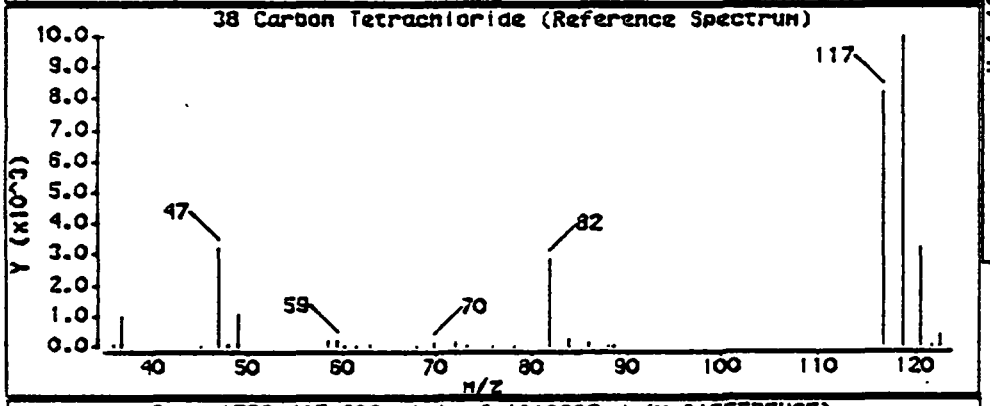
Column phase: RTx-624

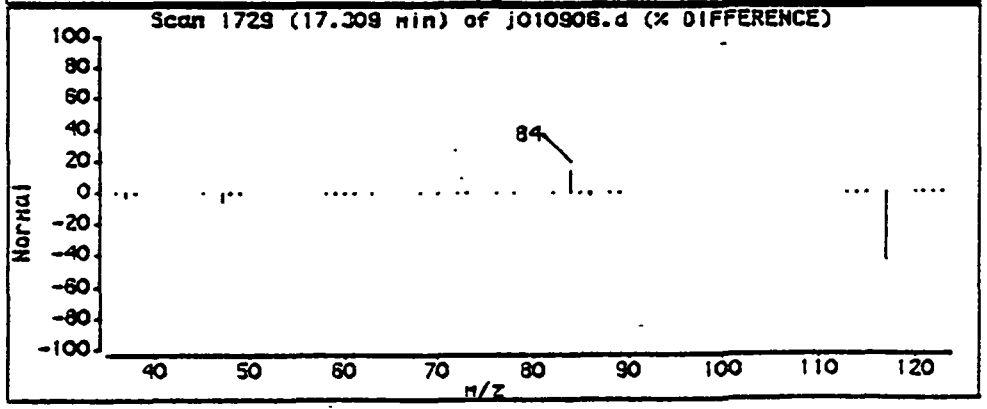
Column diameter: 0.58

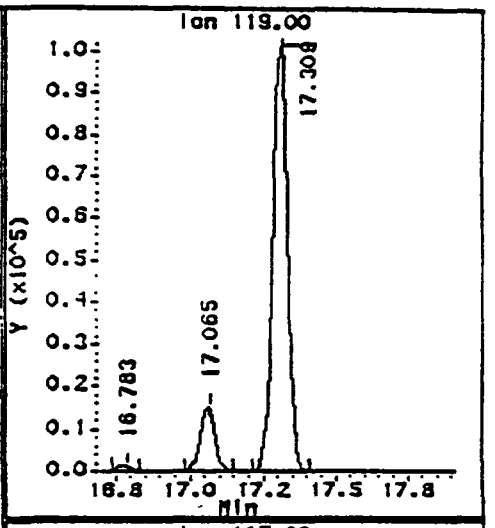
38 Carbon Tetrachloride

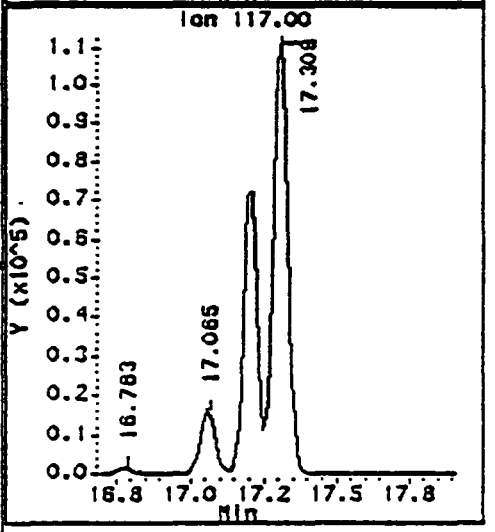












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

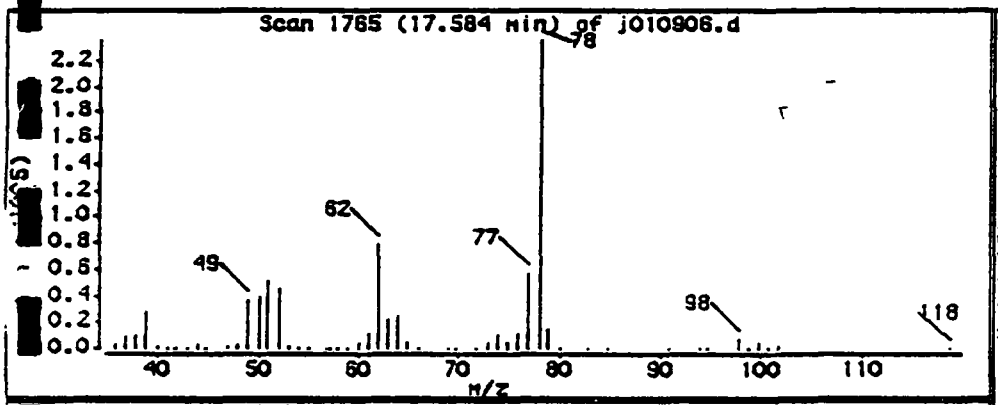
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

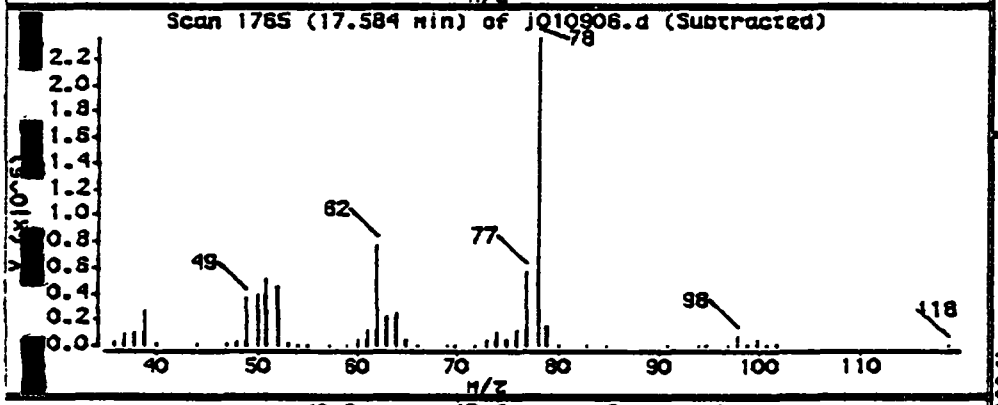
Operator: FA

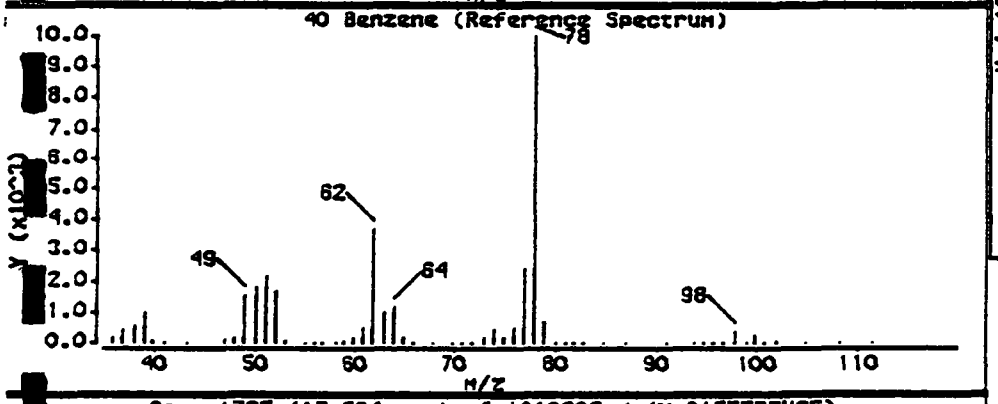
Column phase: RTx-624

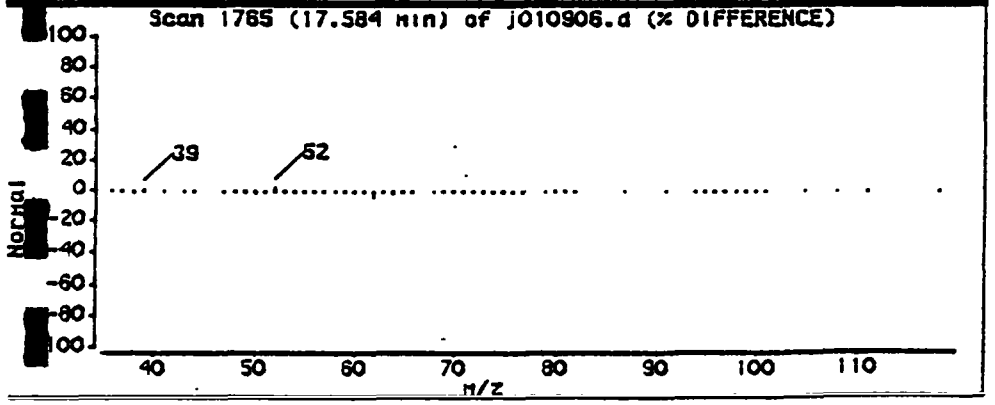
Column diameter: 0.58

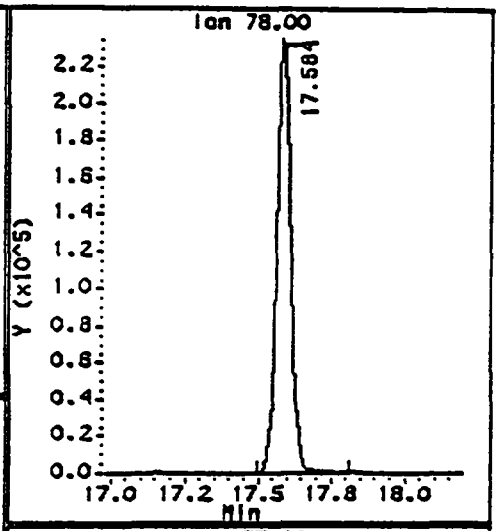
40 Benzene

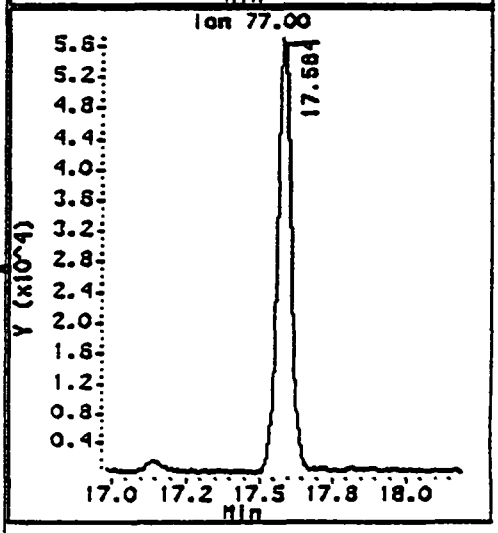












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

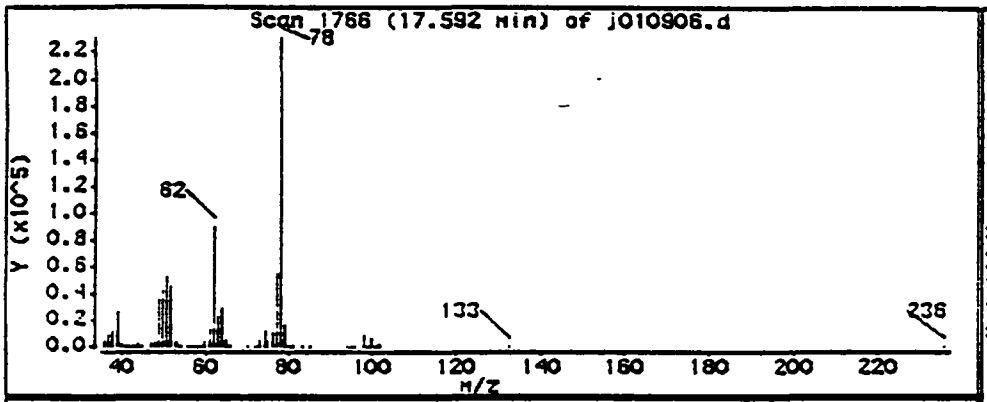
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

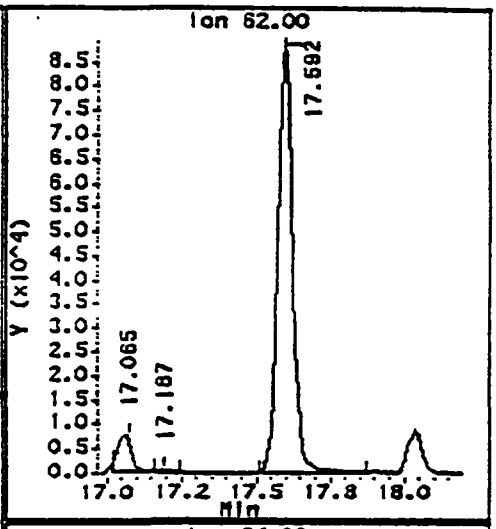
Operator: FR

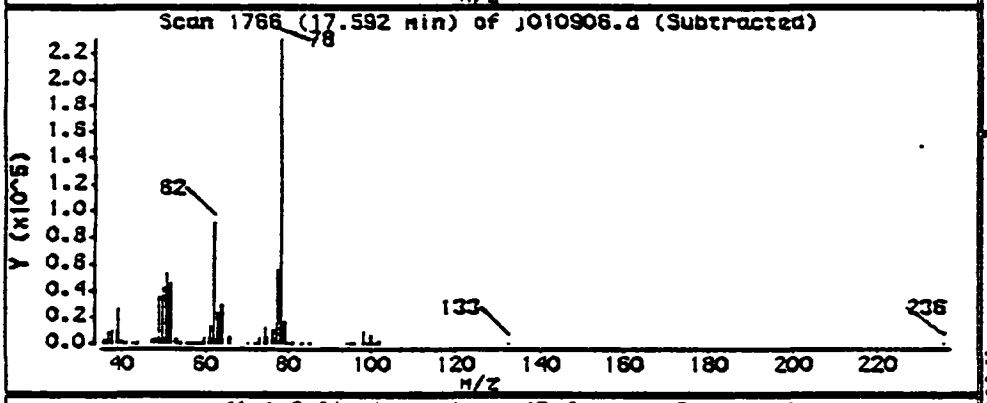
Column phase: RTx-624

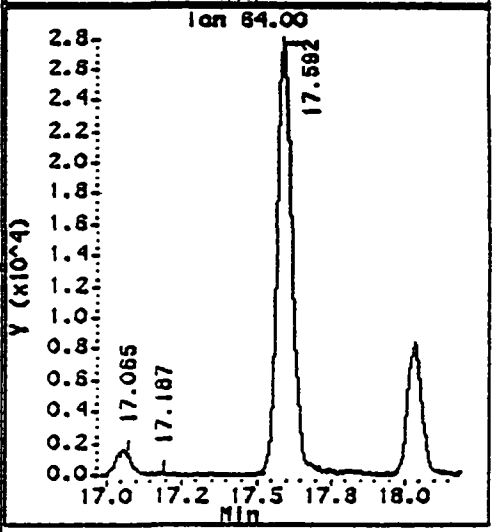
Column diameter: 0.58

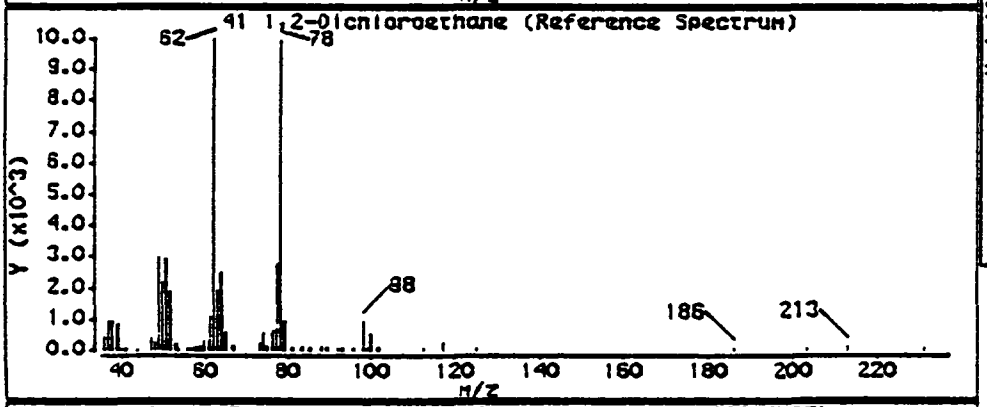
41 1,2-Dichloroethane

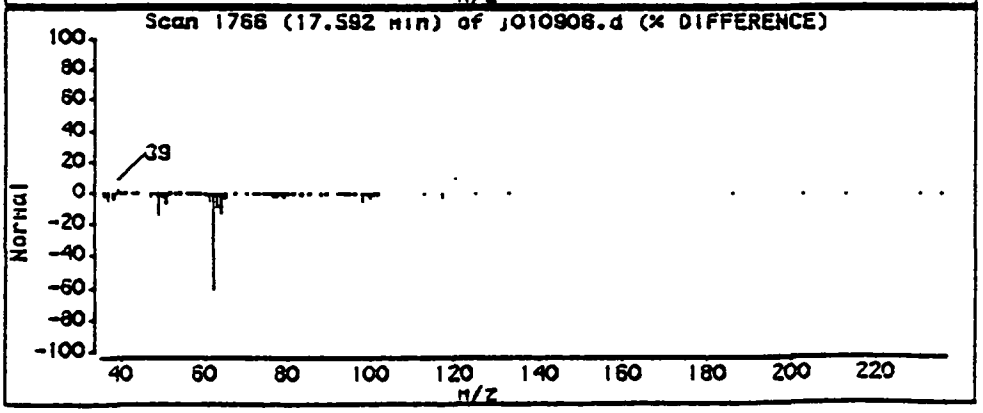












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

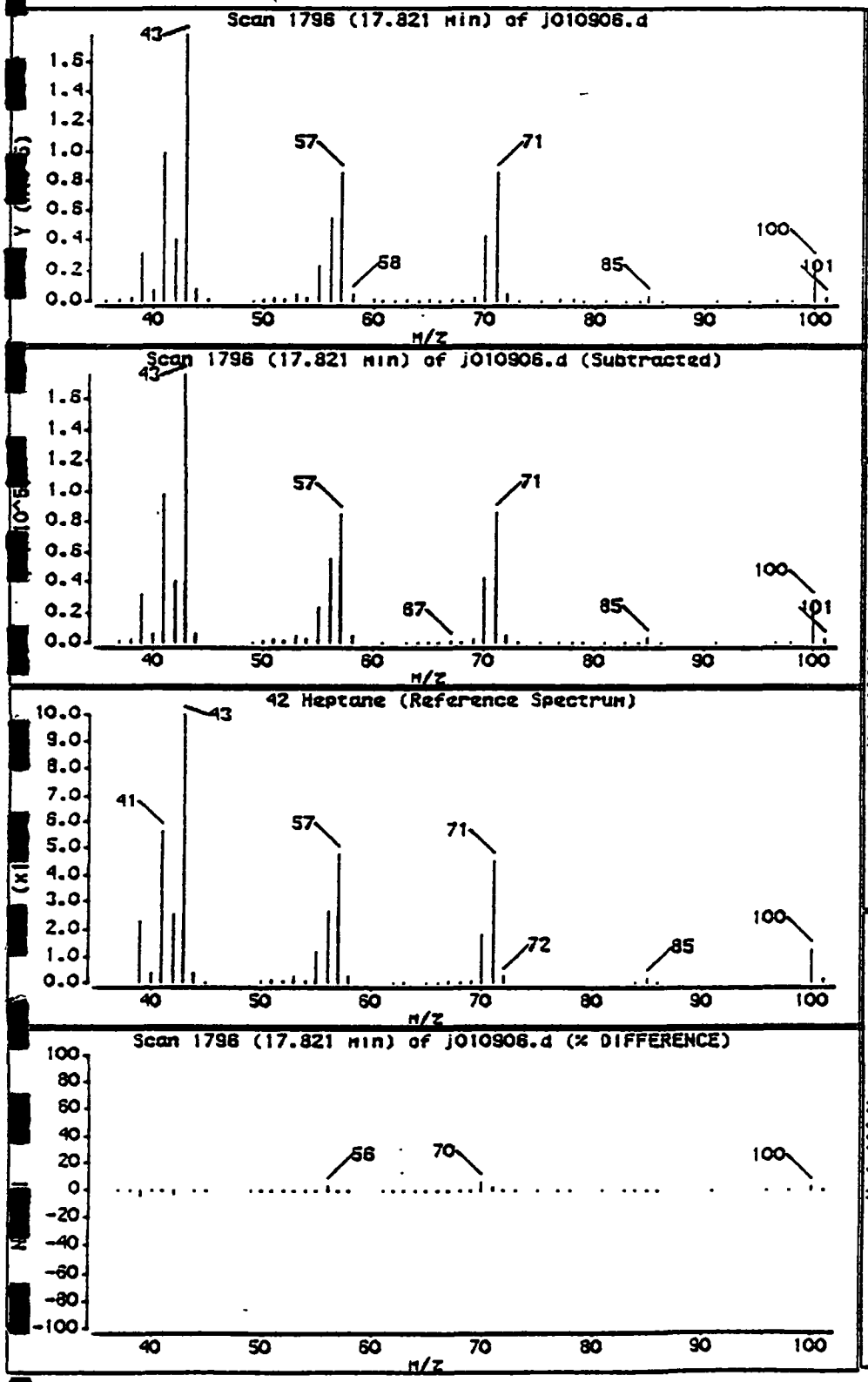
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

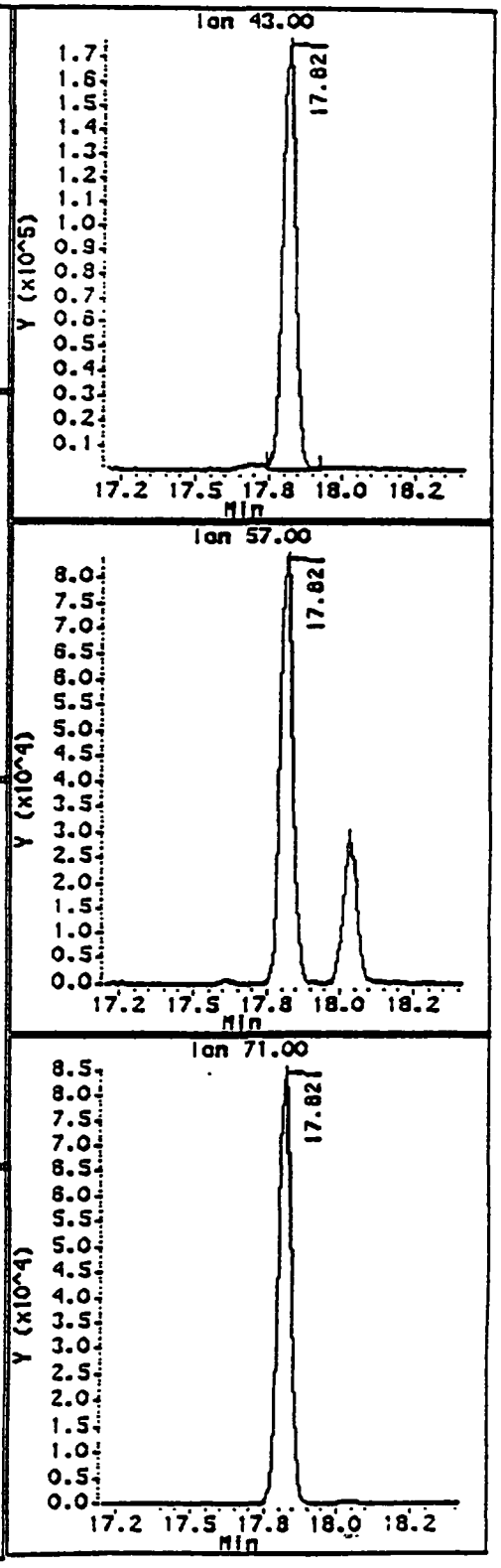
Operator: FR

Column phase: RTx-624

Column diameter: 0.58

42 Heptane





Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

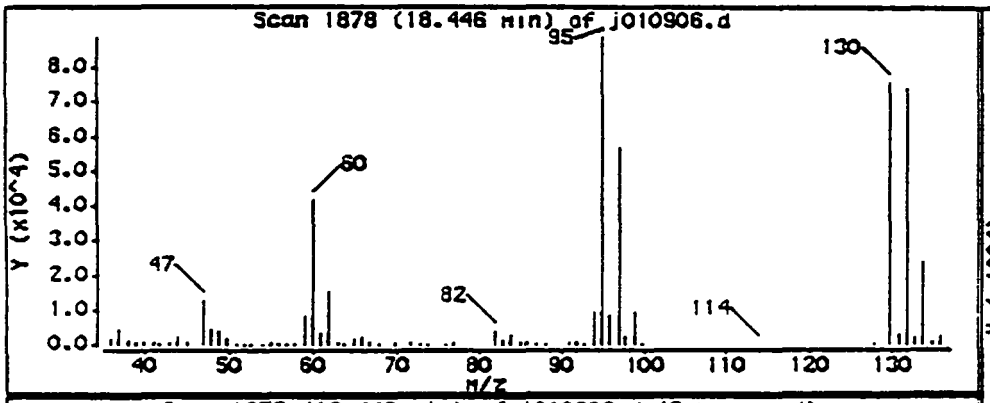
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

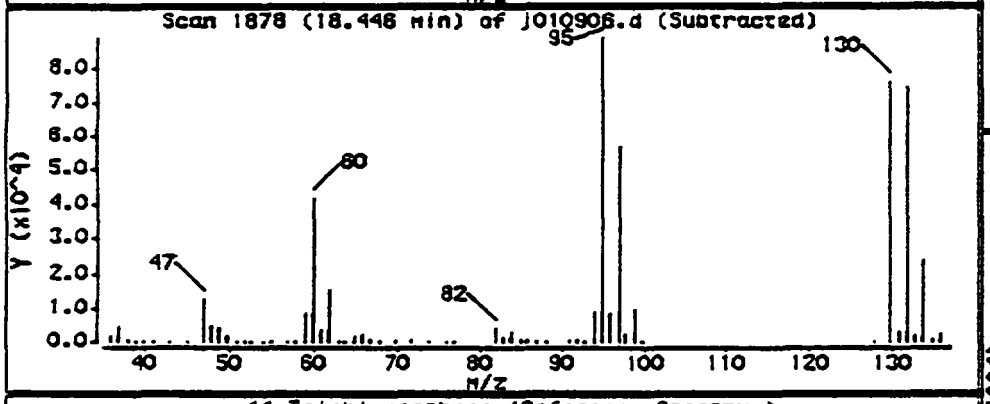
Operator: FR

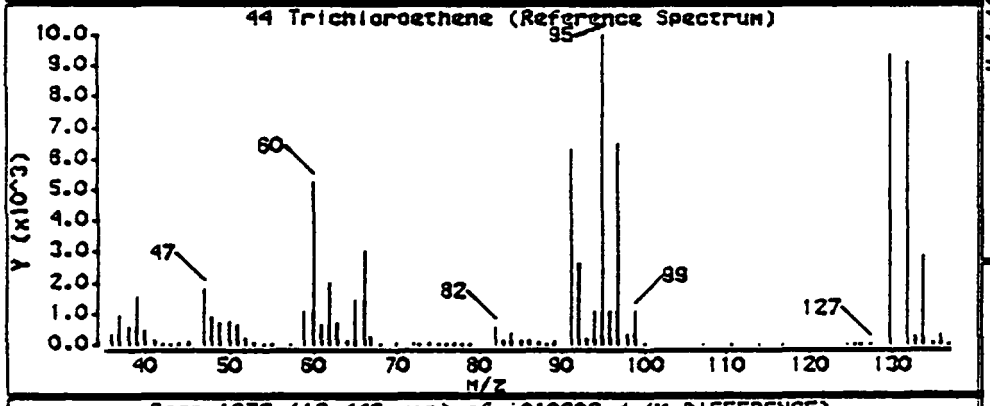
Column phase: RTx-624

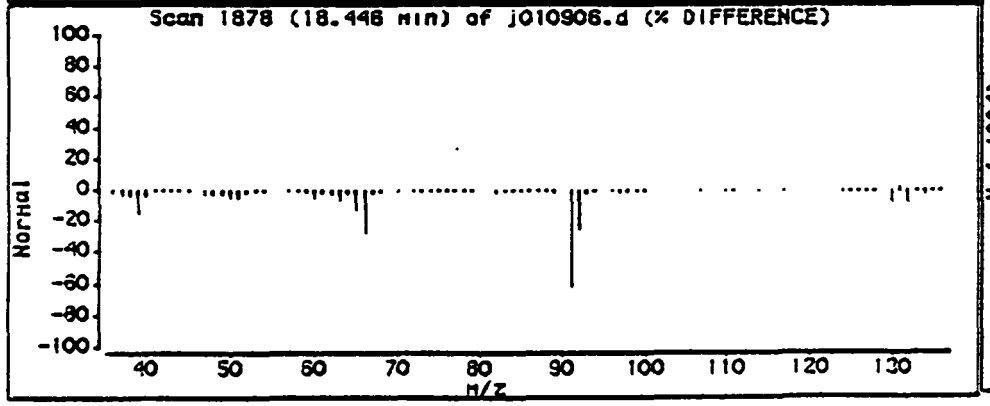
Column diameter: 0.58

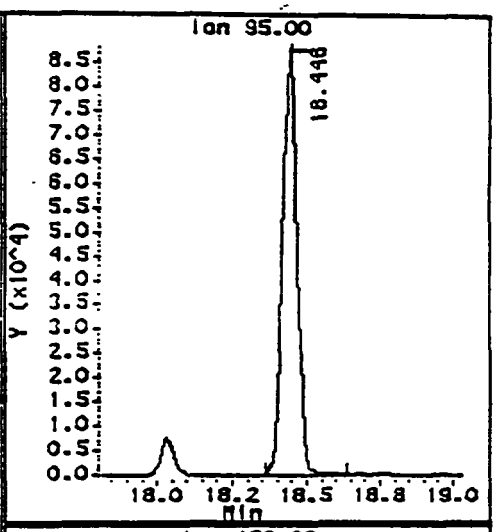
44 Trichloroethene

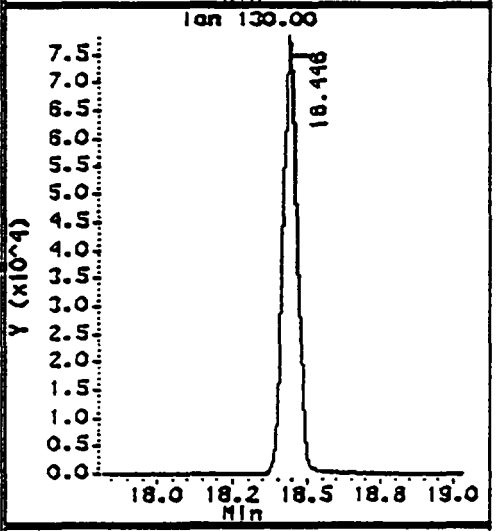


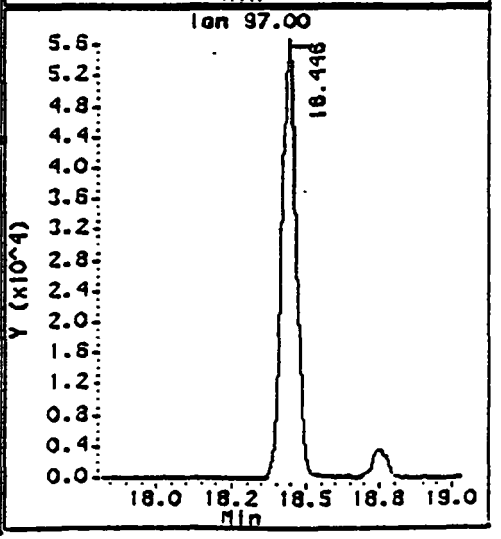












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

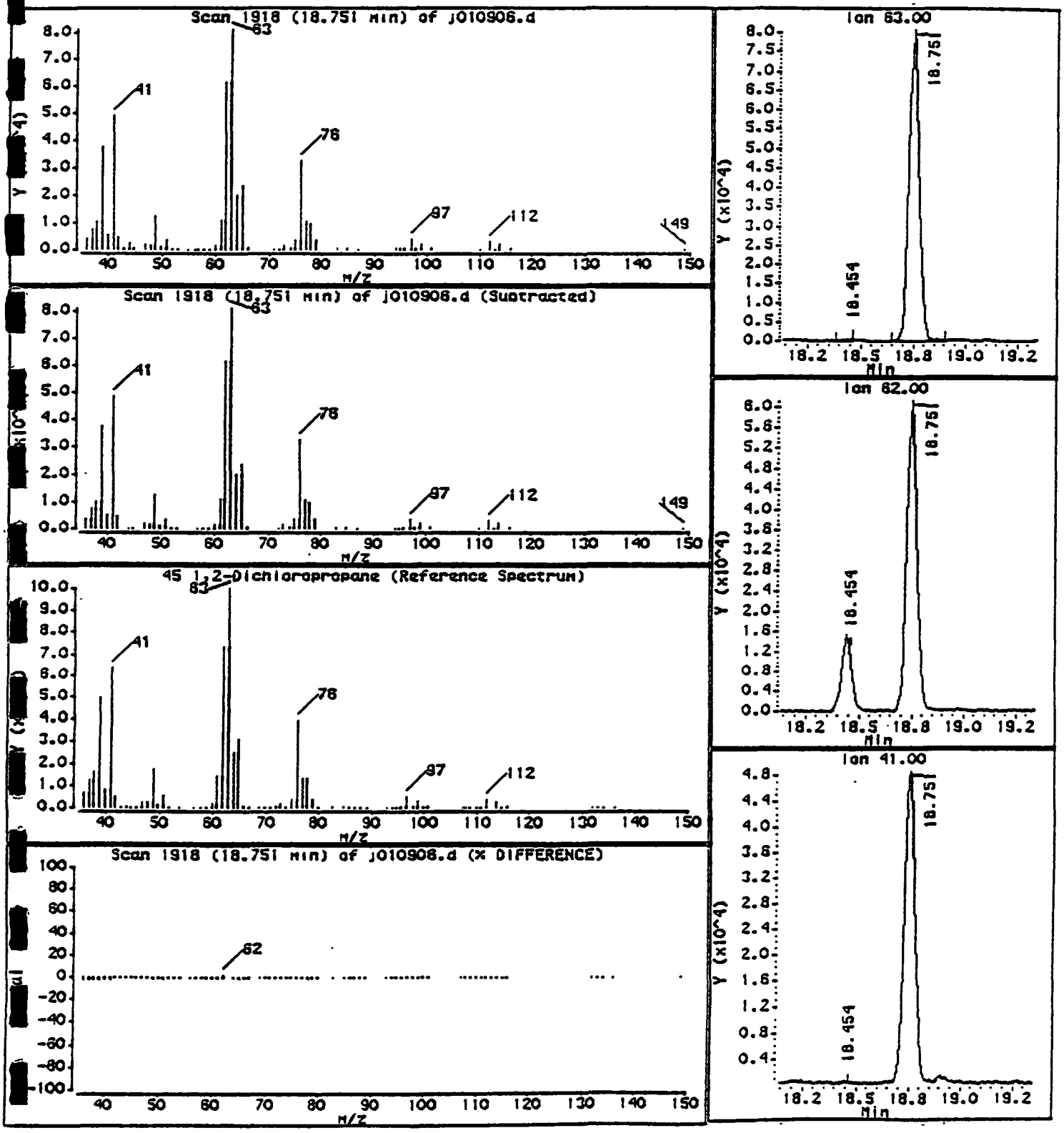
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

Operator: FA

Column phase: RTx-624

Column diameter: 0.58

45 1,2-Dichloropropane



Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

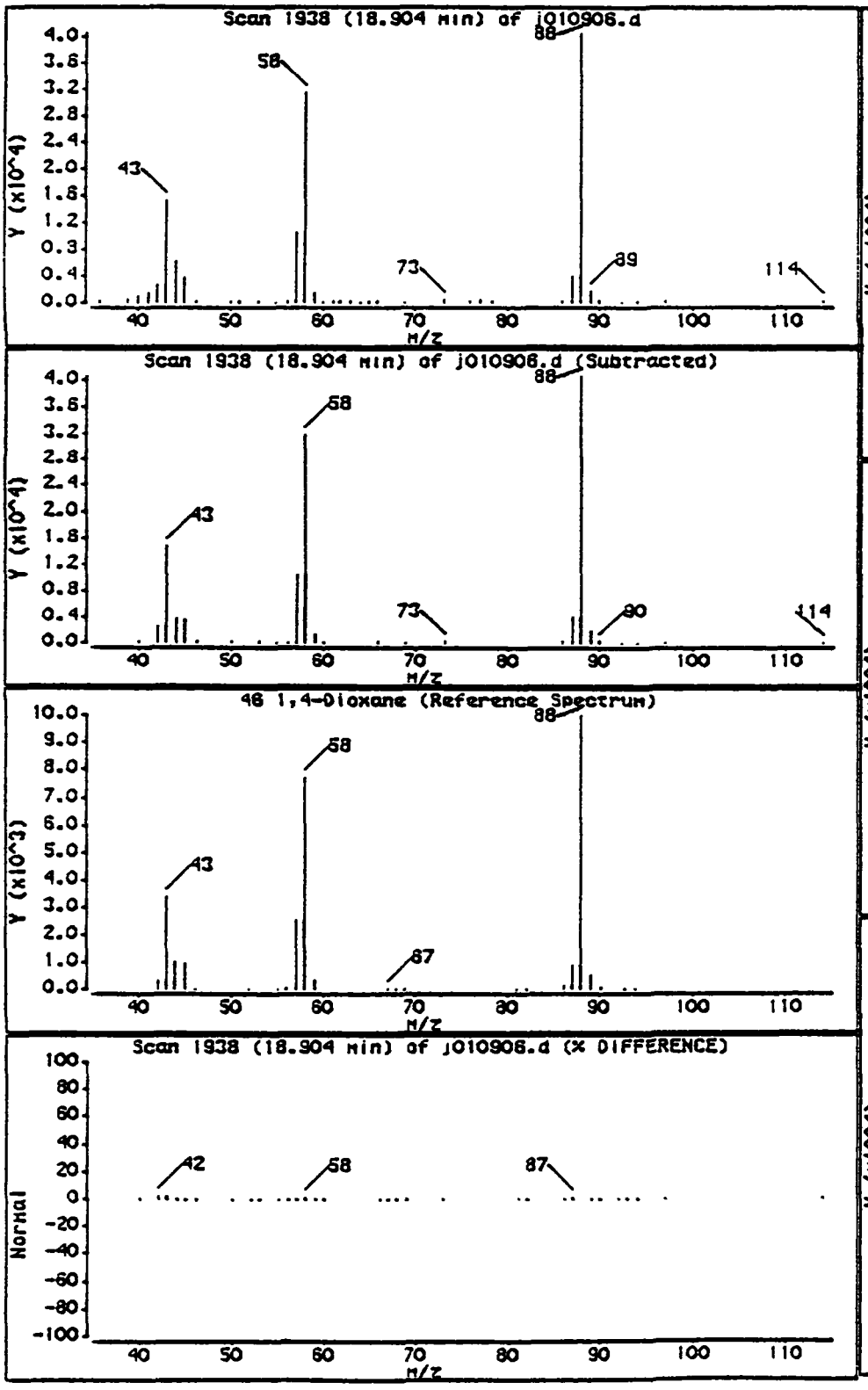
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

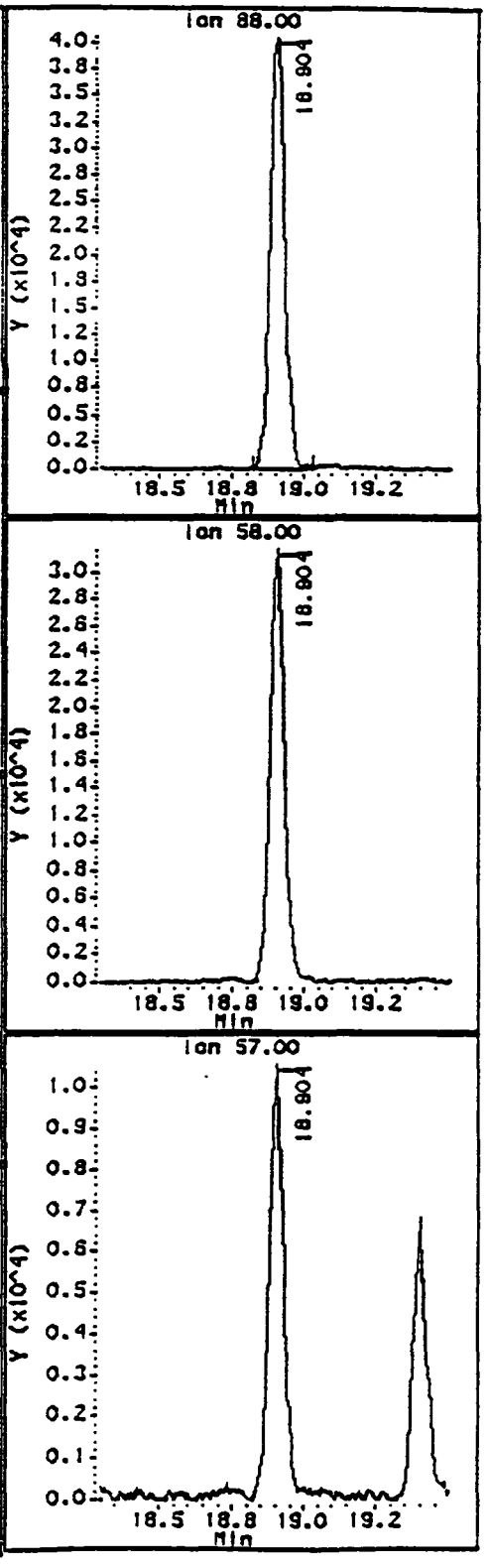
Operator: FR

Column phase: RTx-624

Column diameter: 0.58

46 1,4-Dioxane





Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

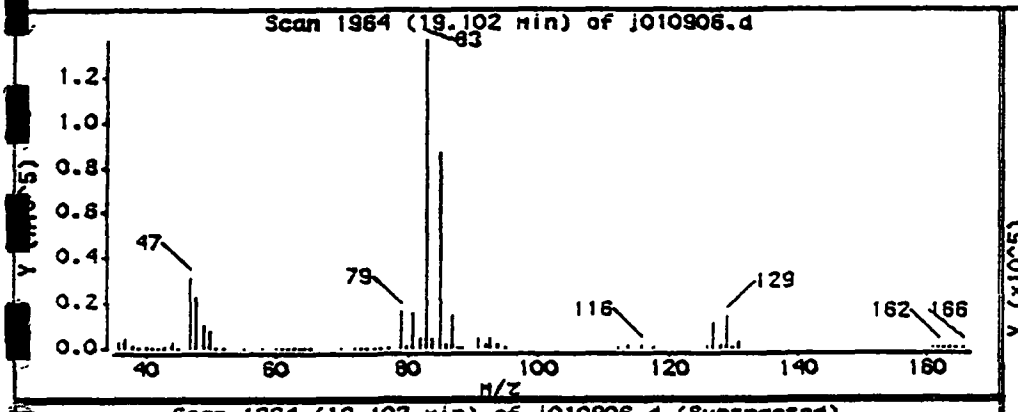
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

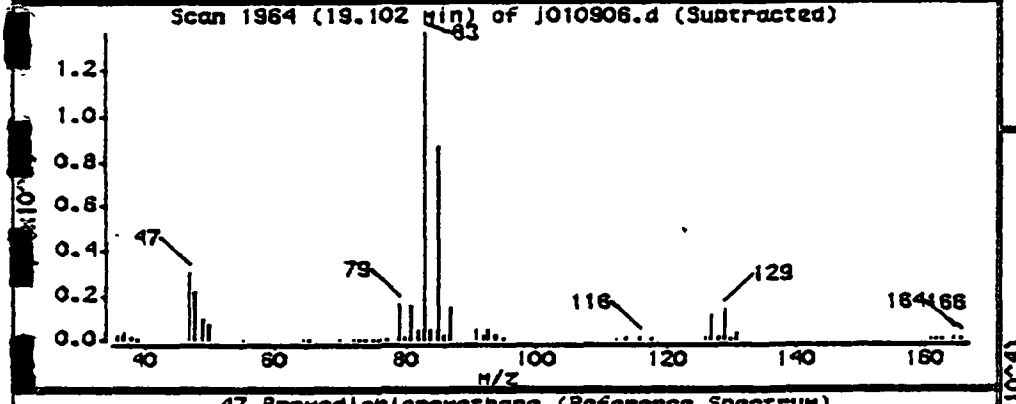
Operator: FR

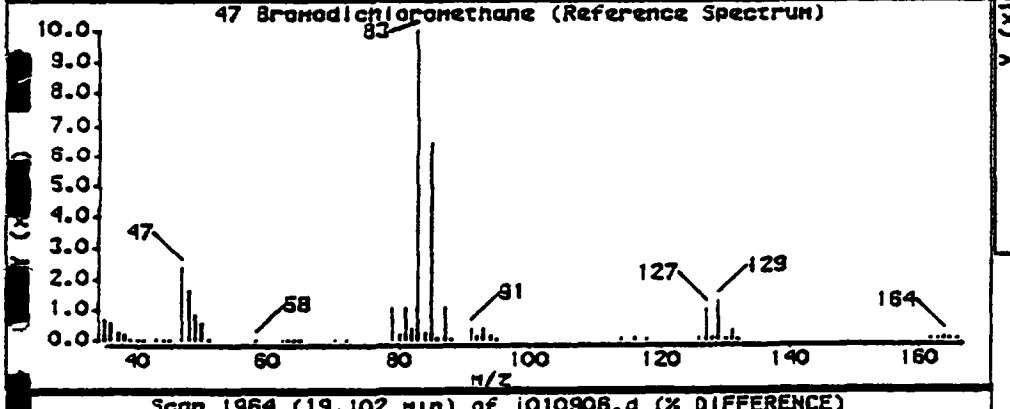
Column phase: RTx-624

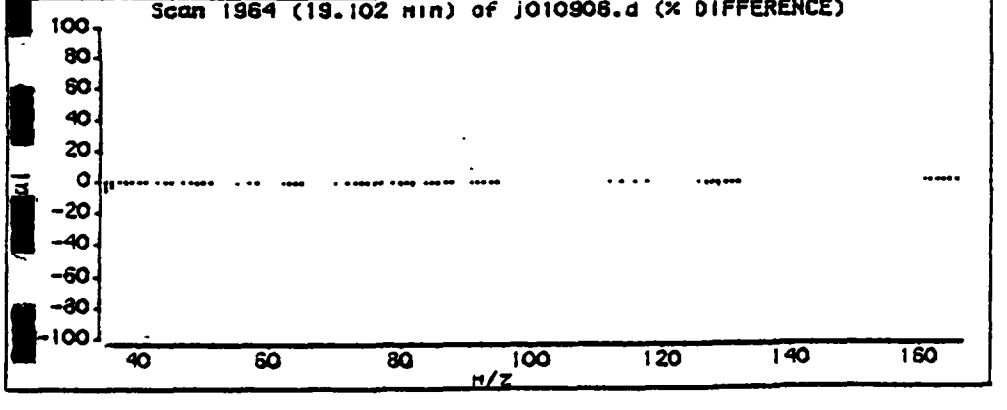
Column diameter: 0.58

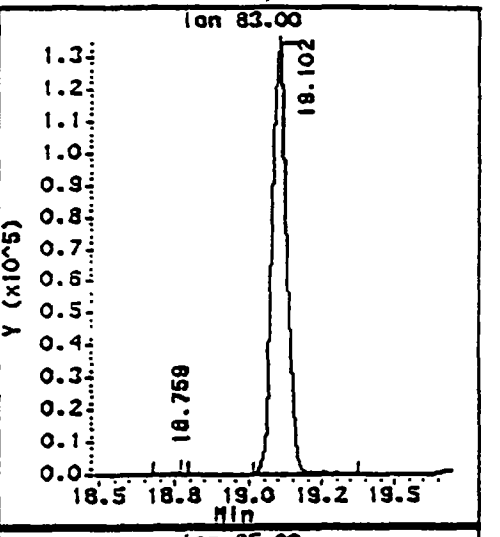
47 Bromodichloromethane

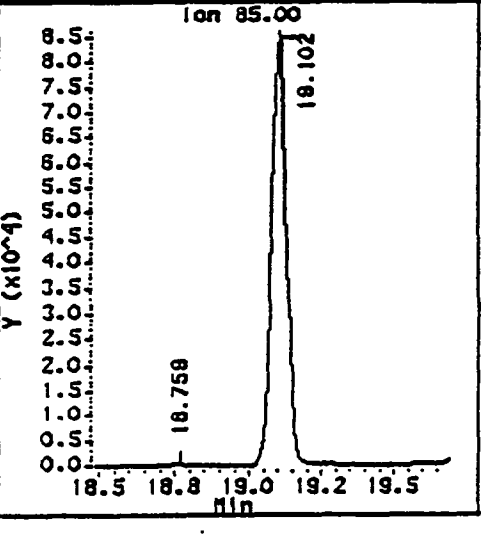












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

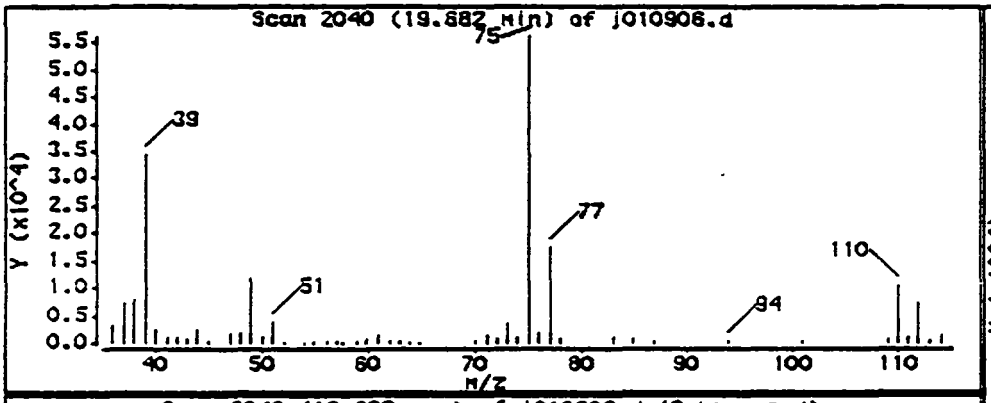
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

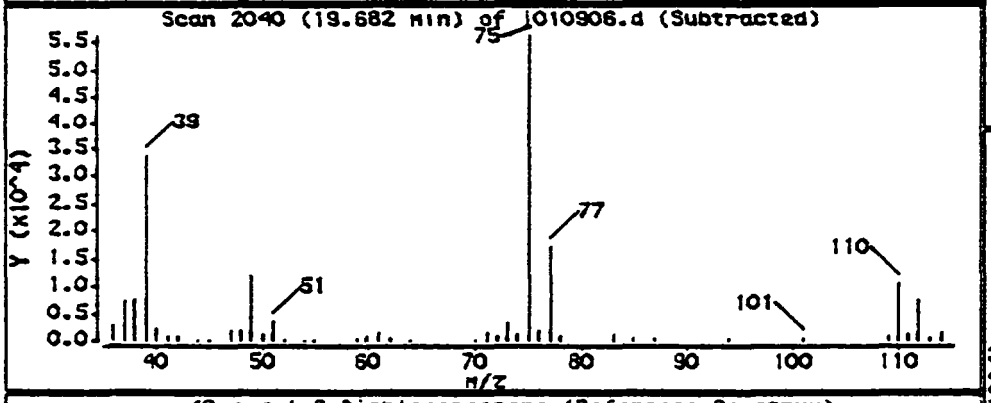
Operator: FA

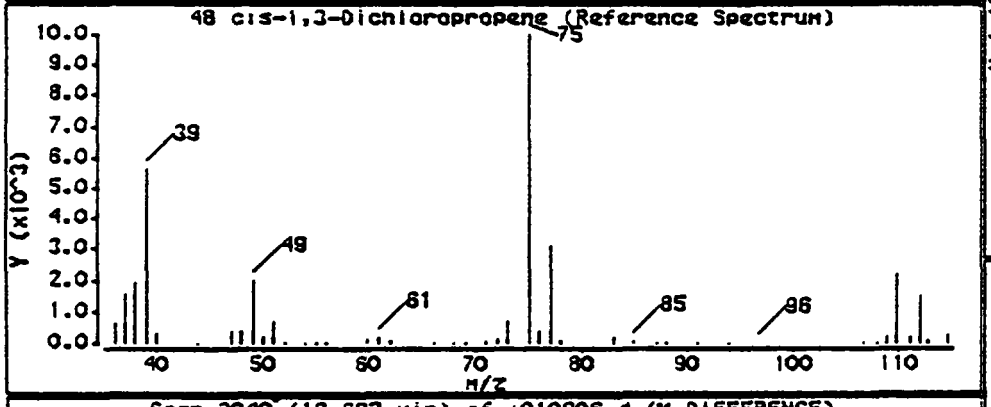
Column phase: RTx-624

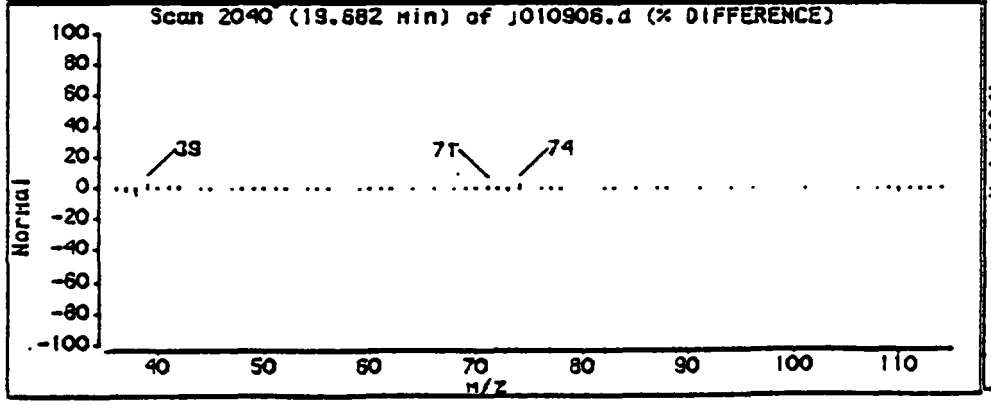
Column diameter: 0.58

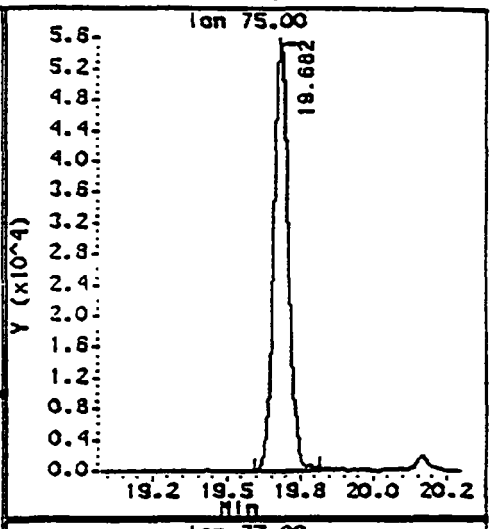
48 cis-1,3-Dichloropropene

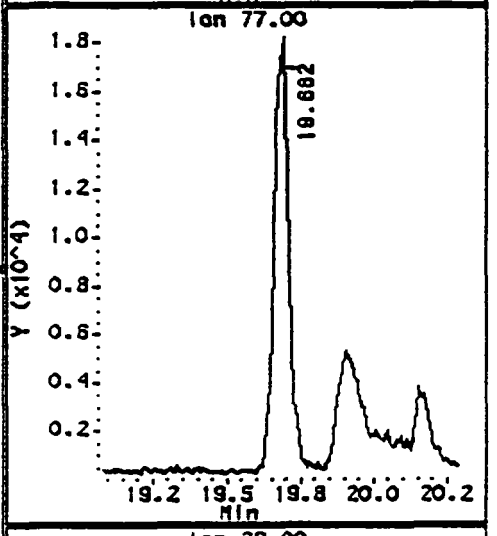


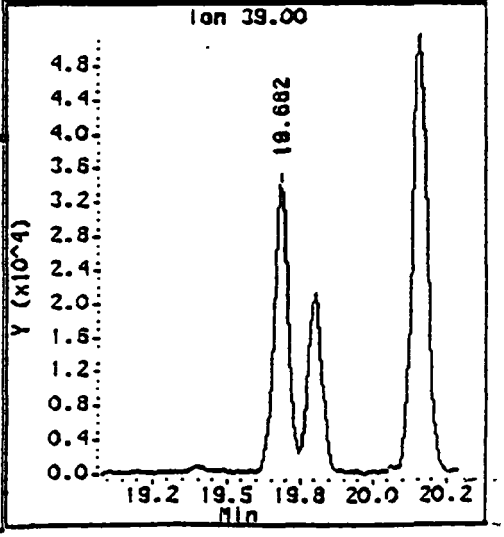












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

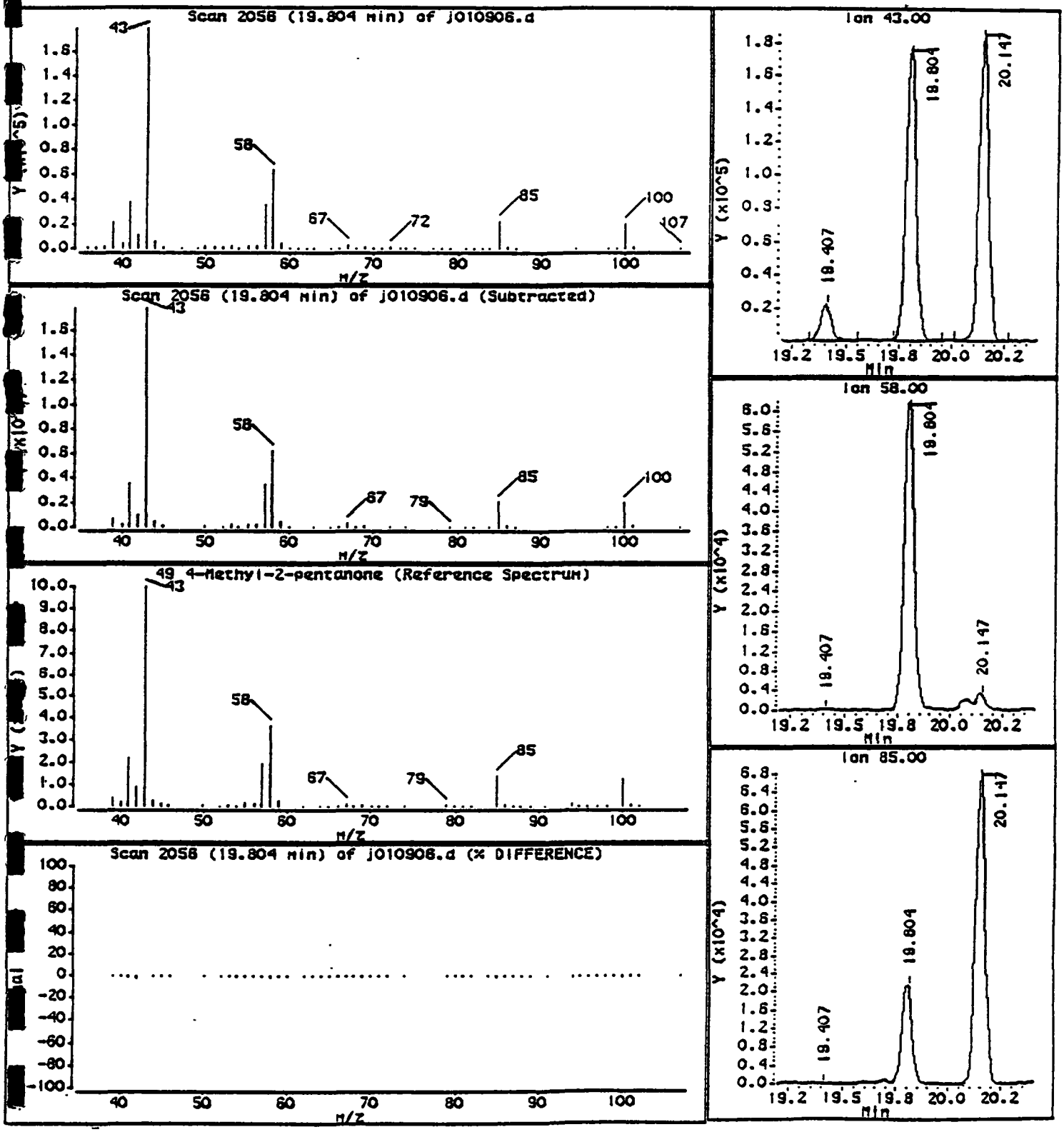
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

Operator: FR

Column phase: RTx-624

Column diameter: 0.58

49 4-Methyl-2-pentanone



Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

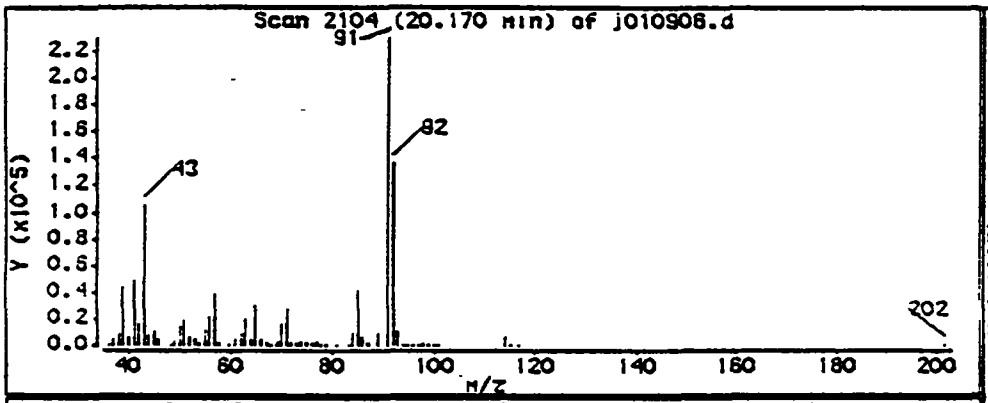
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

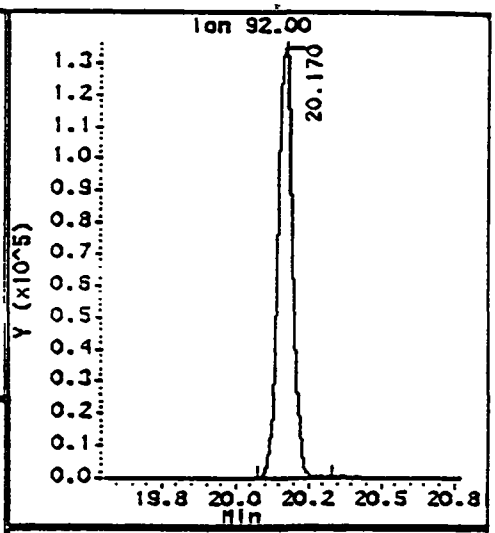
Operator: FR

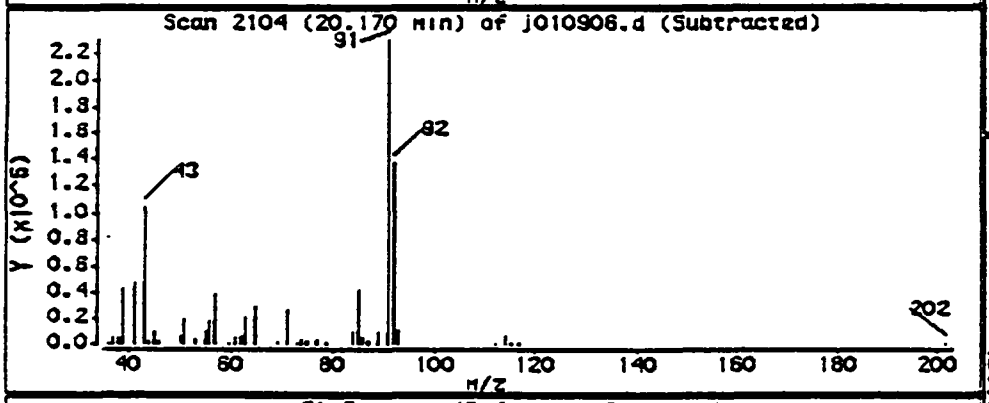
Column phase: RTx-624

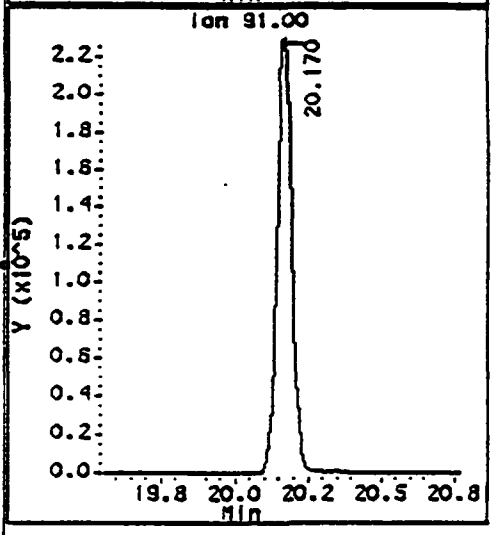
Column diameter: 0.58

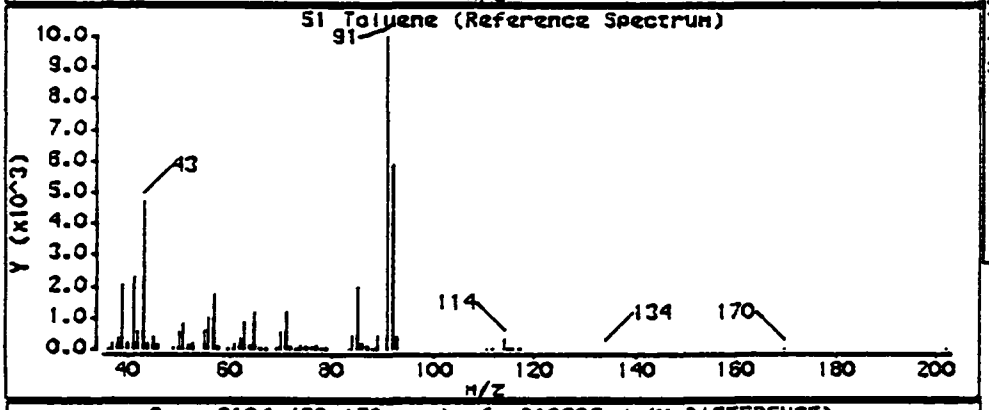
S1 Toluene

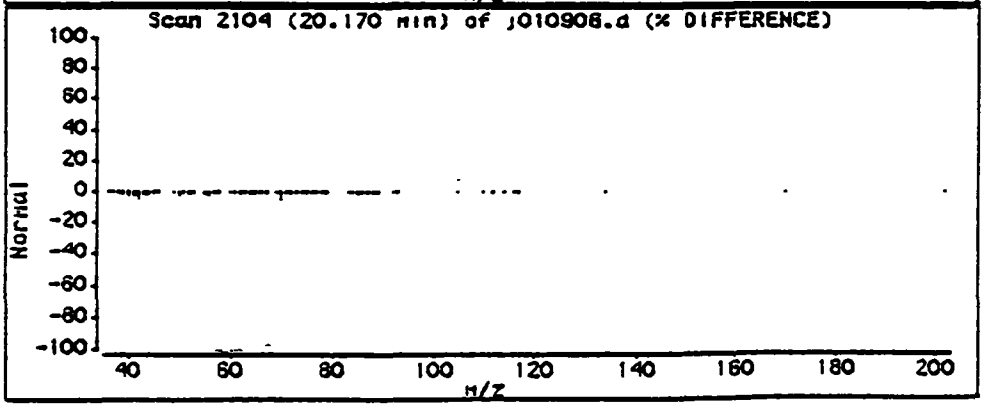












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

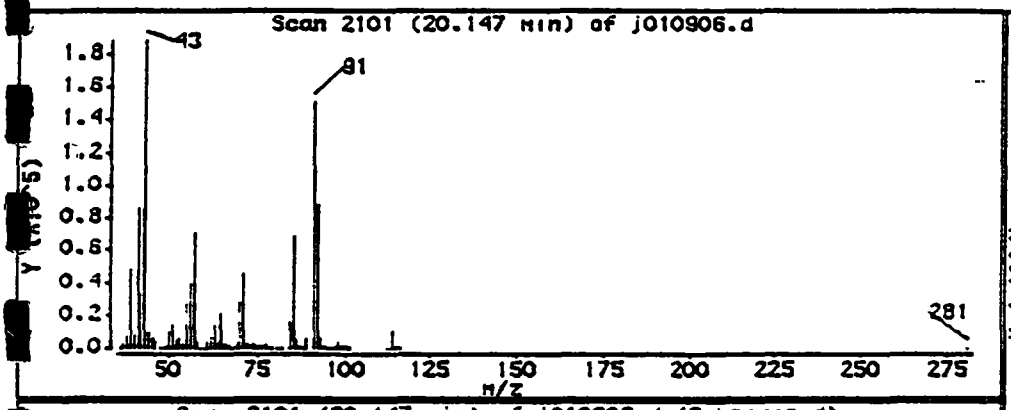
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

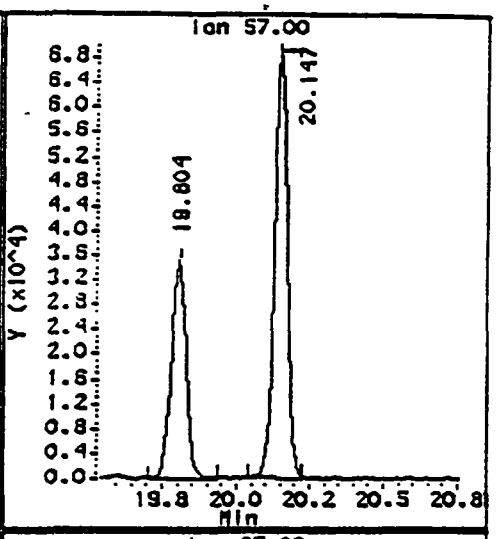
Operator: FR

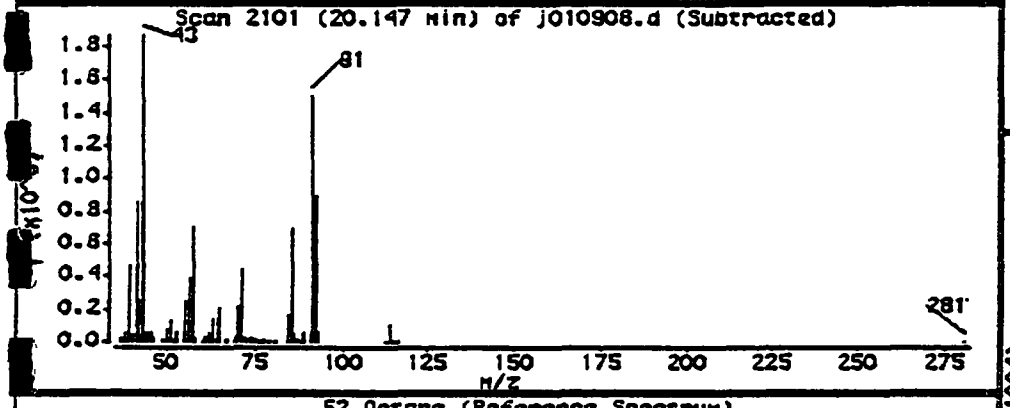
Column phase: RTx-624

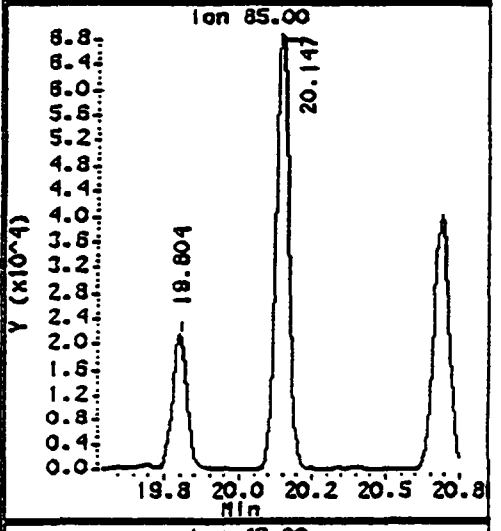
Column diameter: 0.58

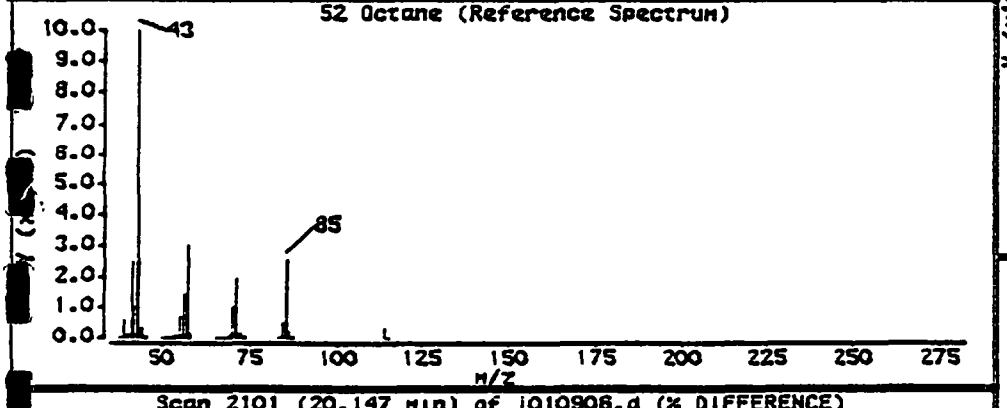
52 Octane

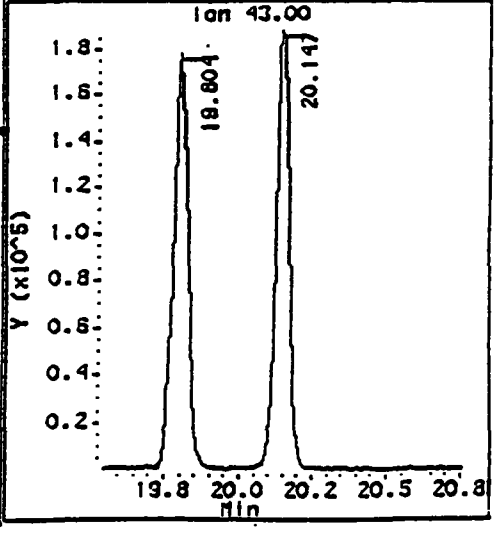


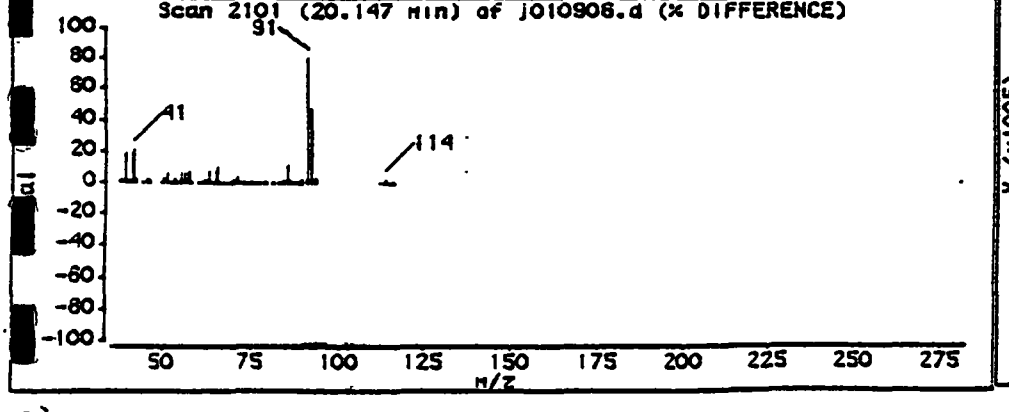












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

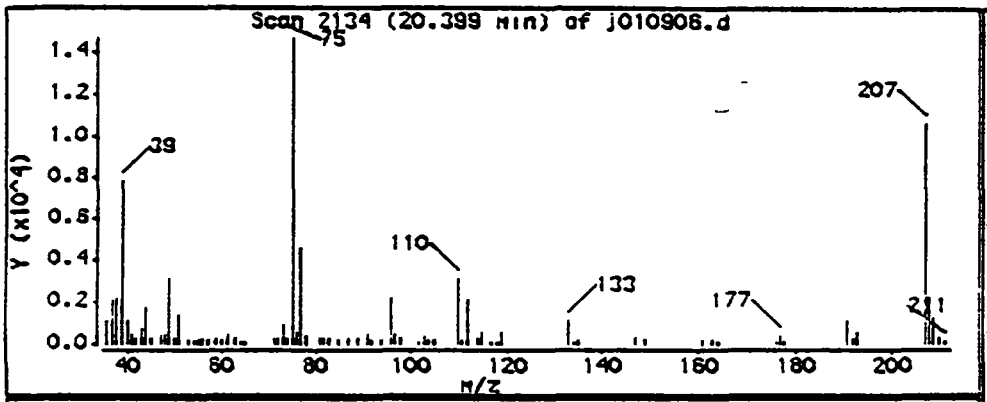
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

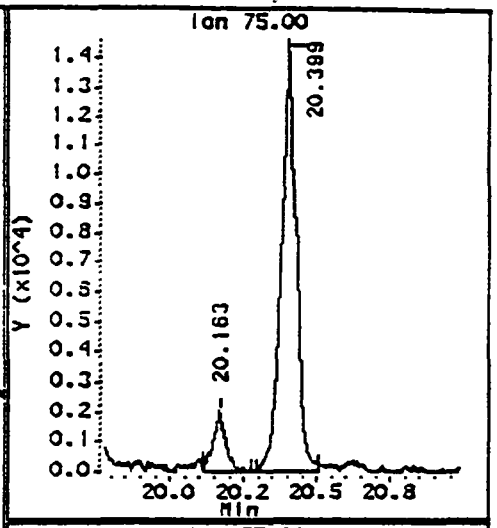
Operator: FR

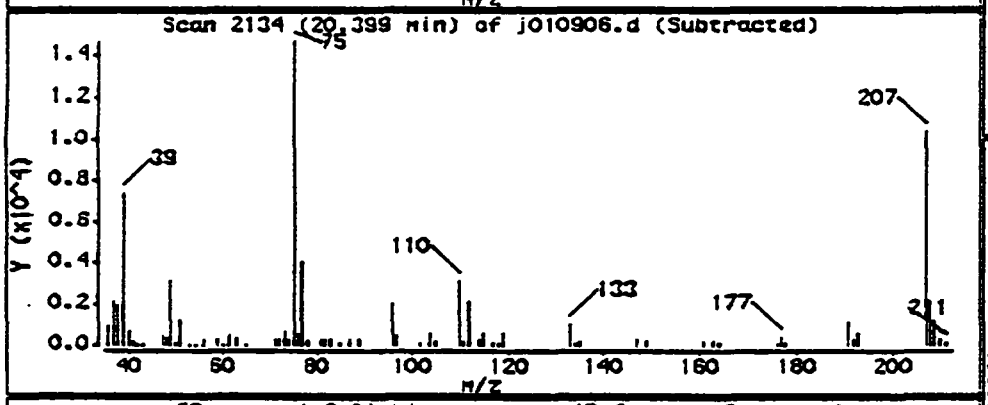
Column phase: RTx-624

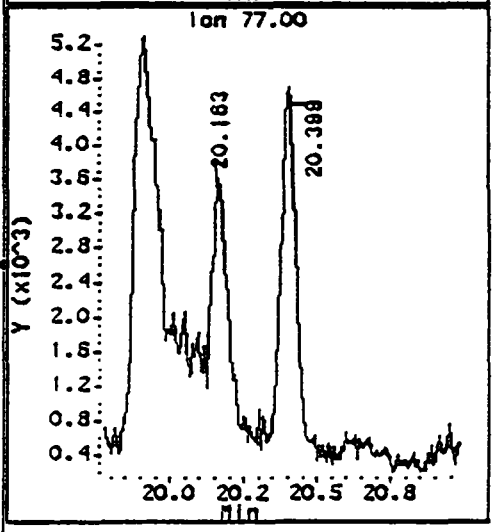
Column diameter: 0.58

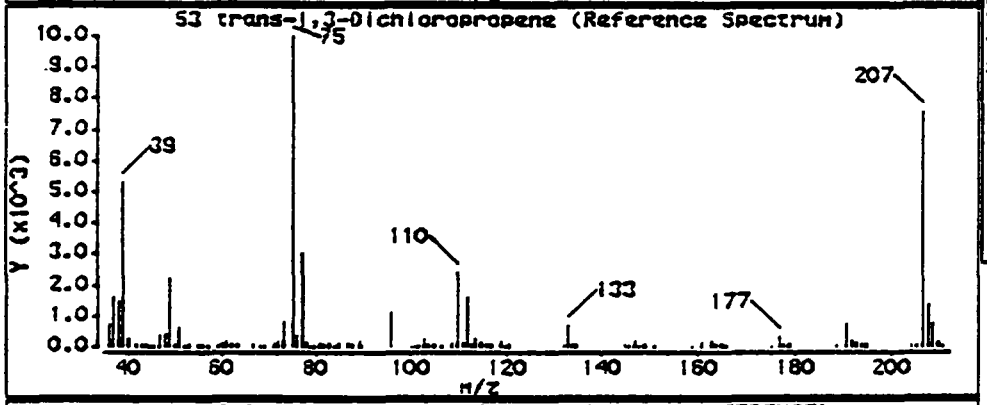
53 trans-1,3-Dichloropropene

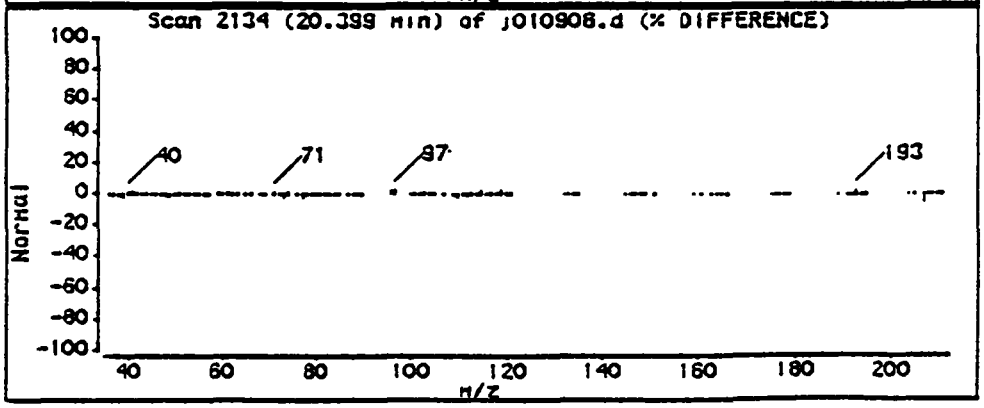












Data File: /chem/msdj.i/J-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

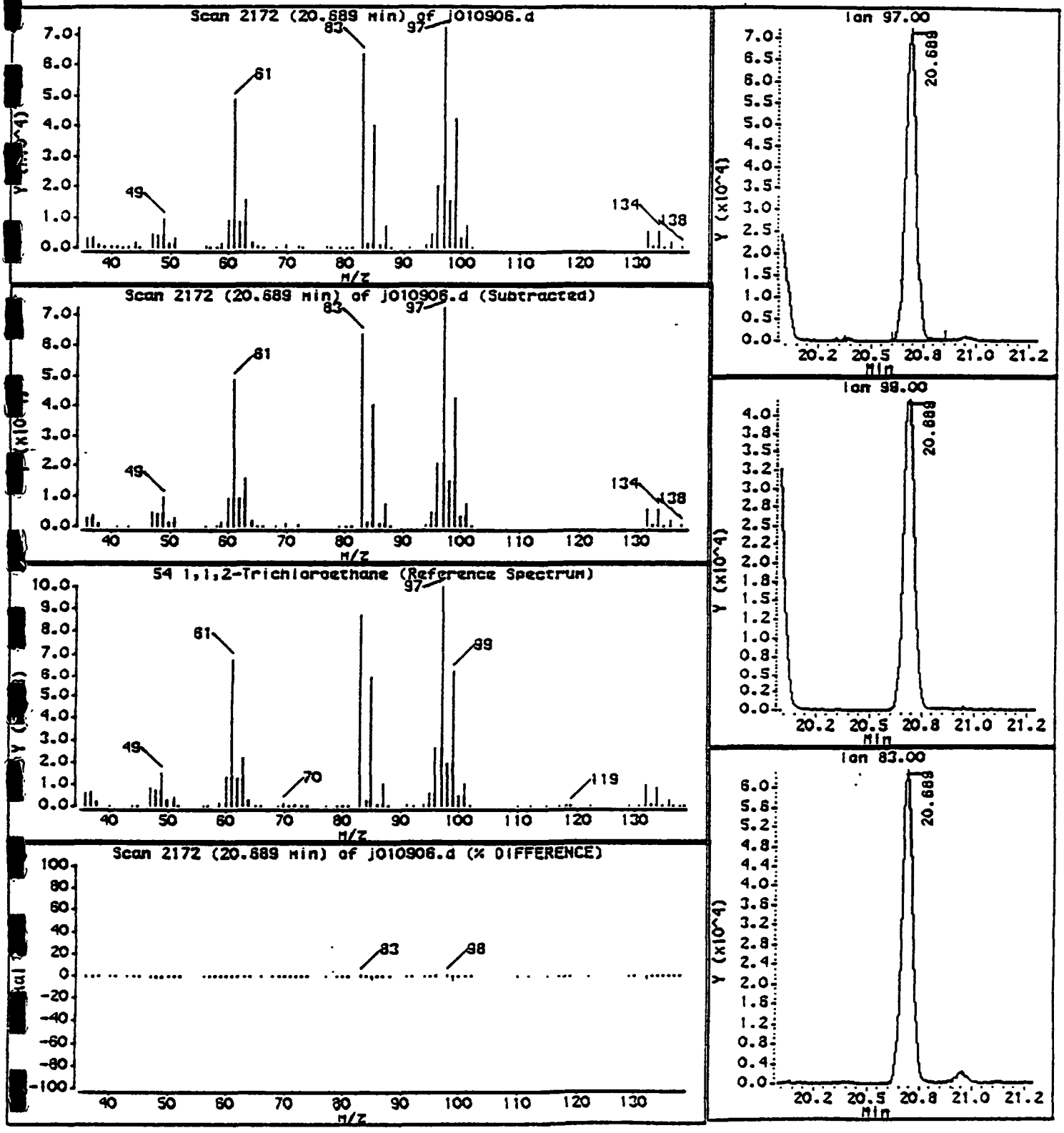
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

Operator: FA

Column phase: RTx-624

Column diameter: 0.58

54 1,1,2-Trichloroethane



Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

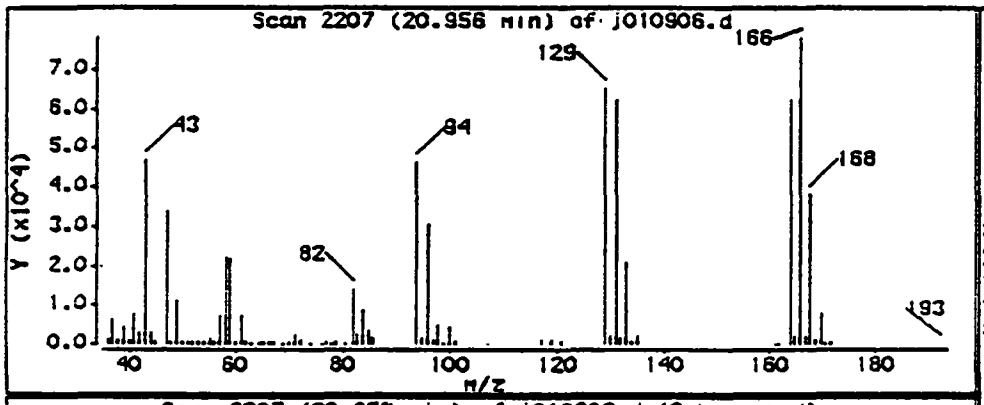
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

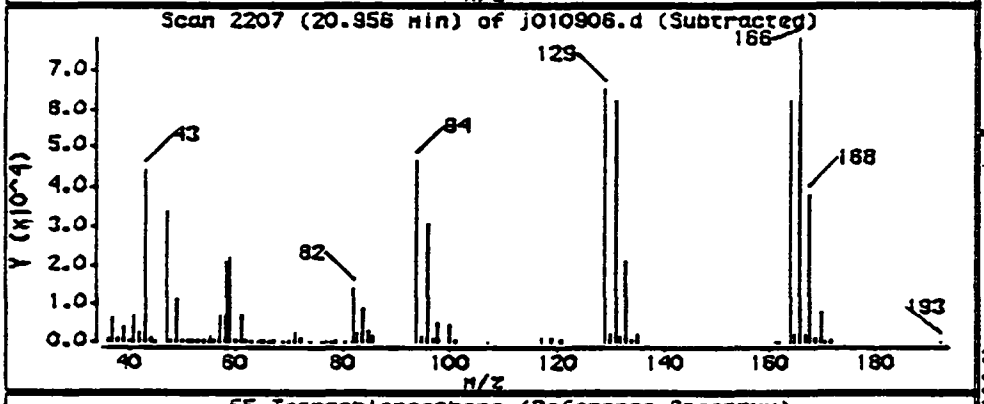
Operator: FA

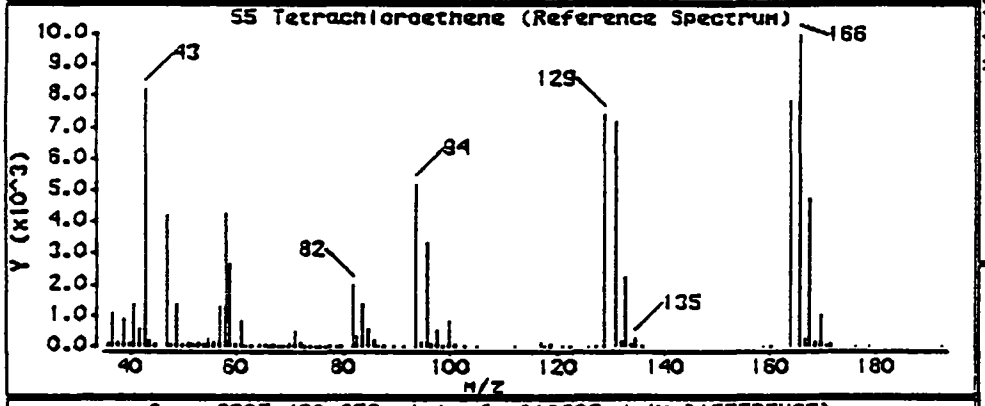
Column phase: RTx-624

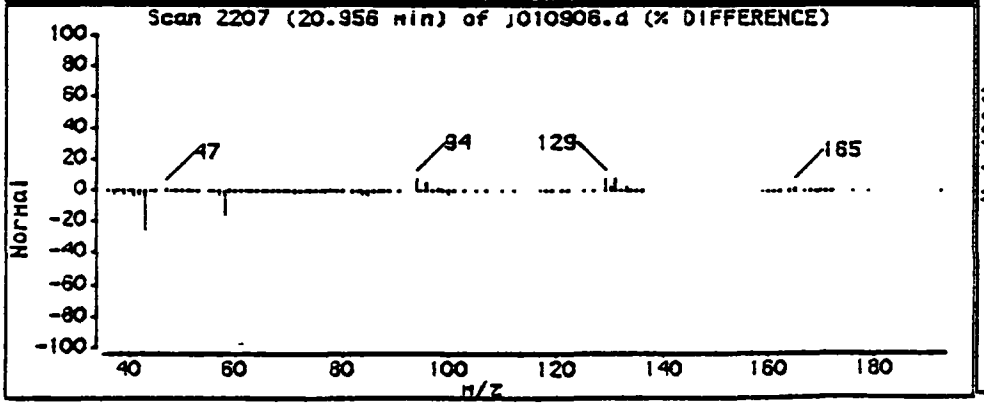
Column diameter: 0.58

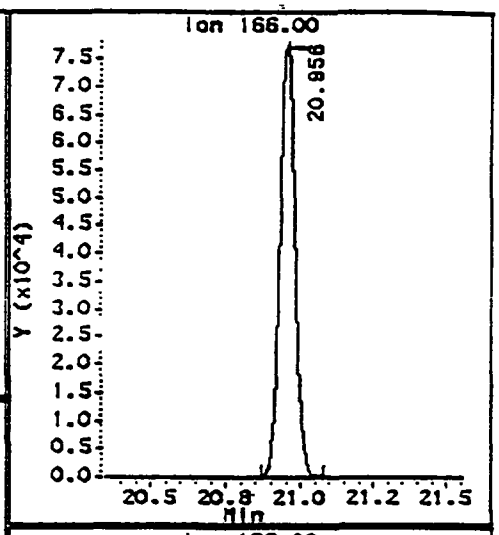
55 Tetrachloroethene

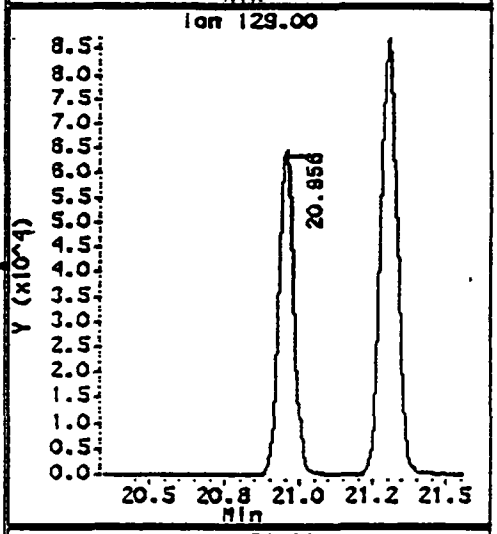


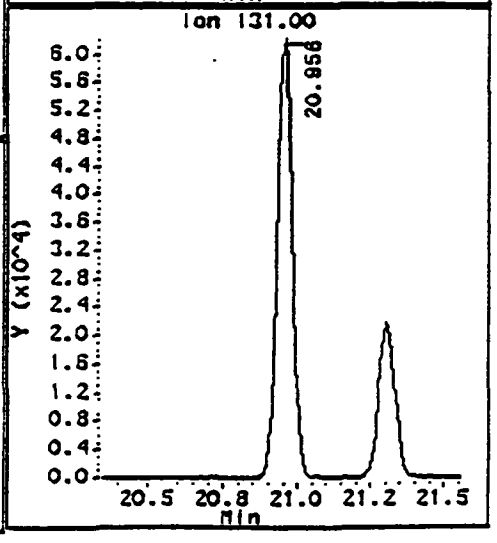












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

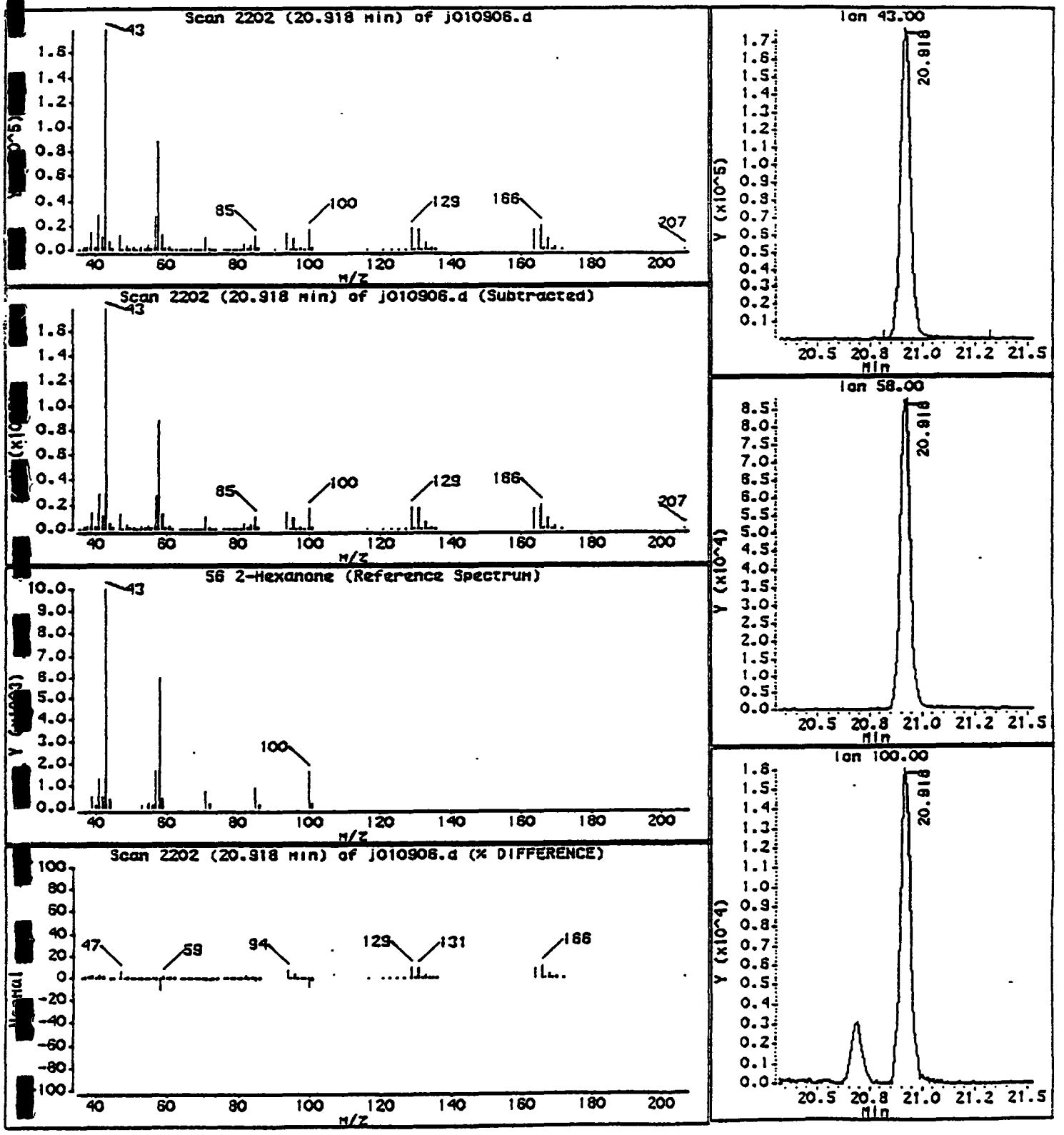
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

Operator: FR

Column phase: RTx-624

Column diameter: 0.58

56 2-Hexanone



Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

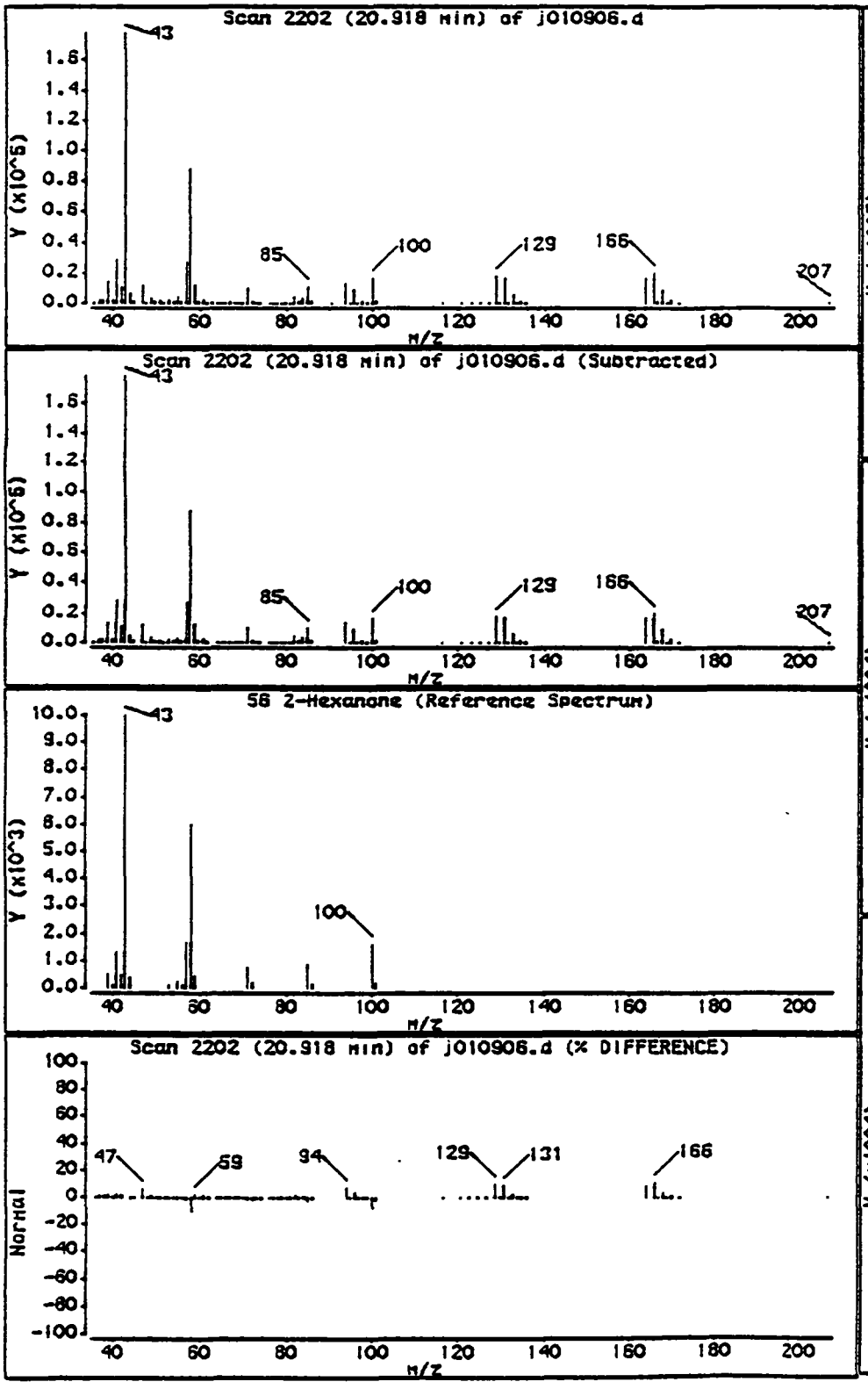
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

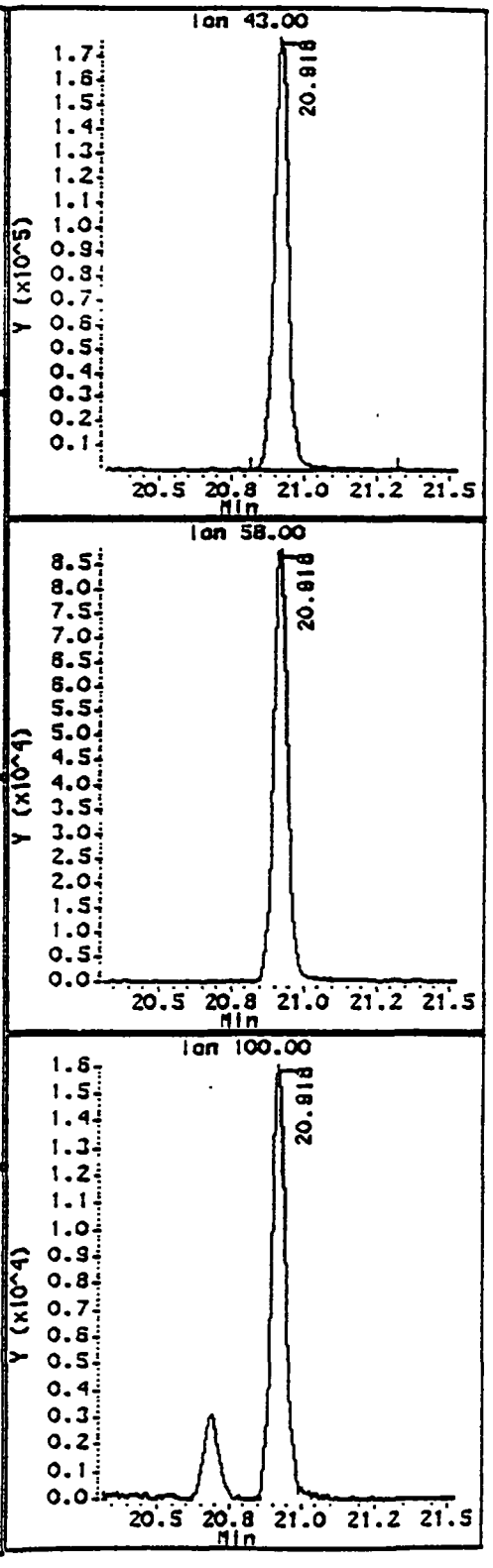
Operator: FA

Column phase: RTx-624

Column diameter: 0.58

56 2-Hexanone





Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

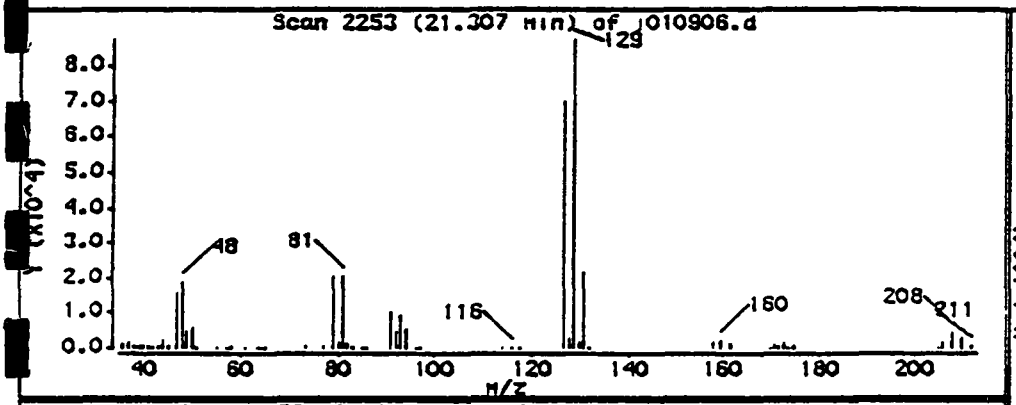
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

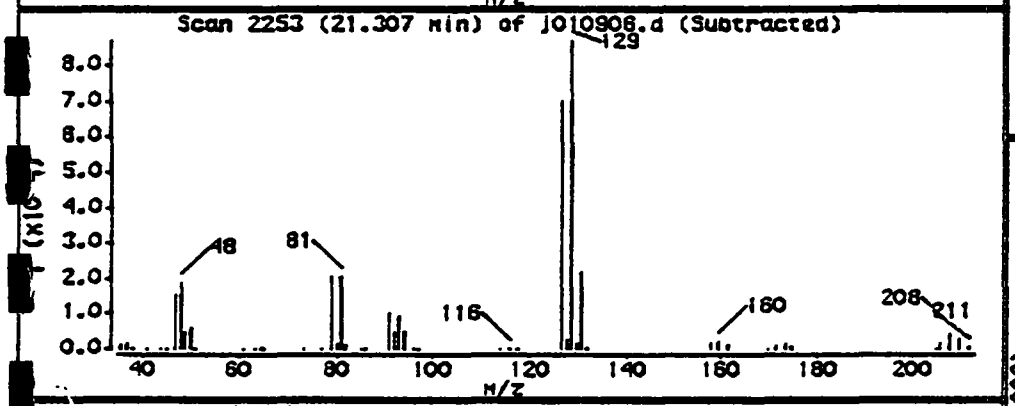
Operator: FA

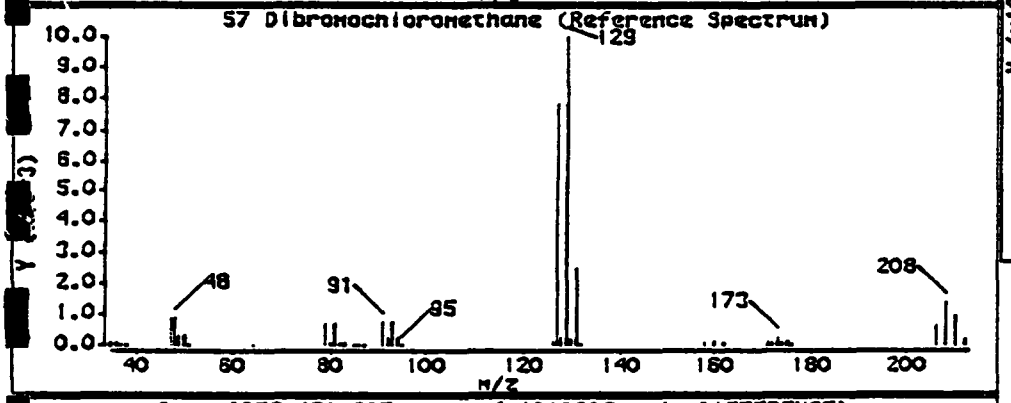
Column phase: RTx-624

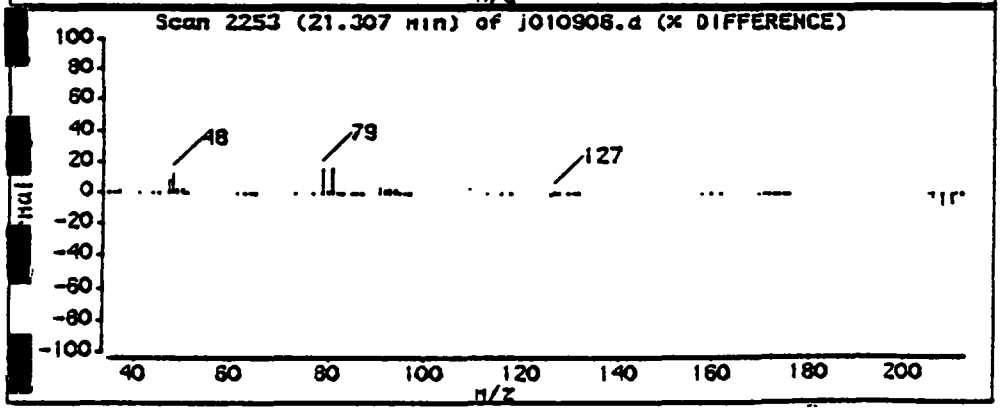
Column diameter: 0.58

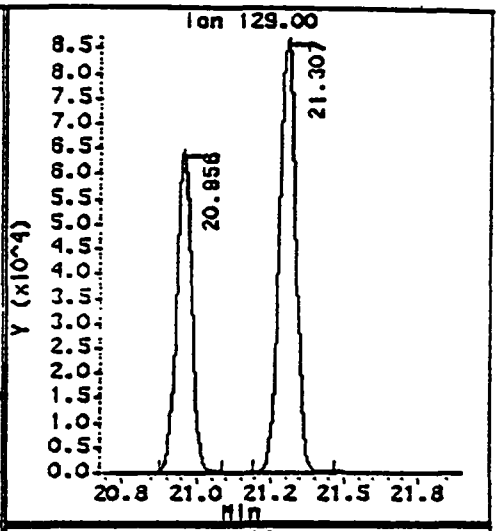
57 Dibromochloromethane

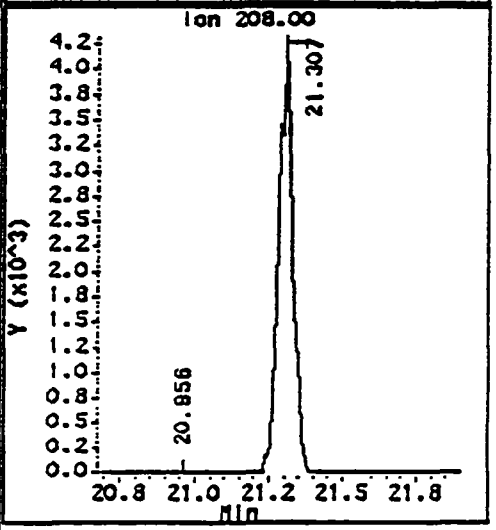












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

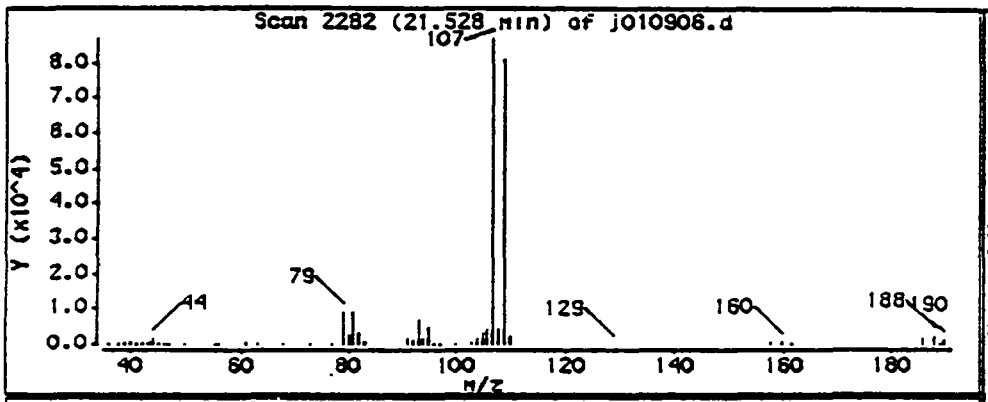
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

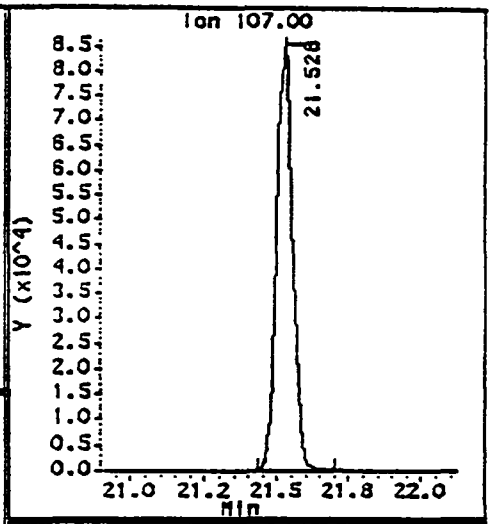
Operator: FA

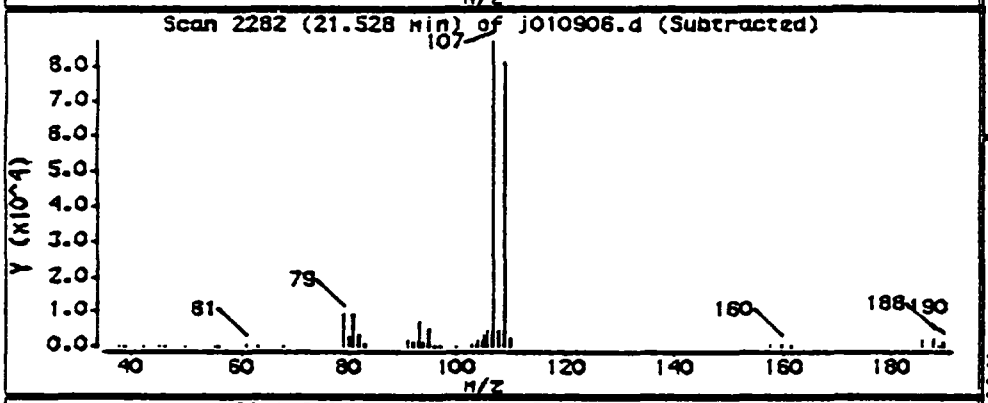
Column phase: RTx-624

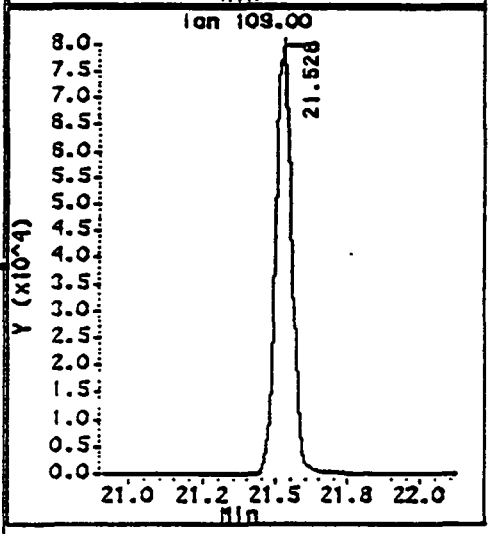
Column diameter: 0.58

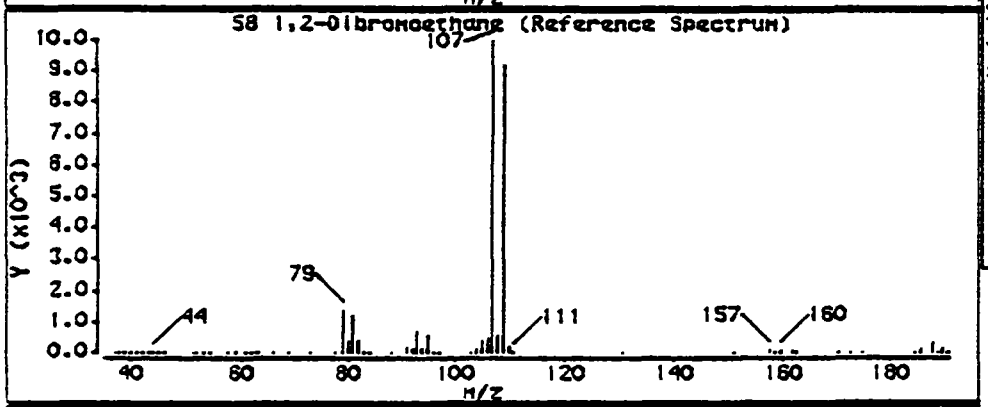
58 1,2-Dibromoethane

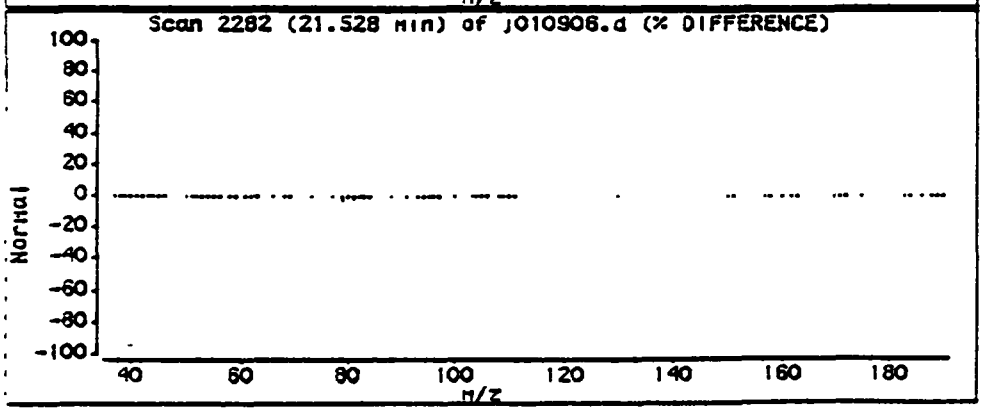












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

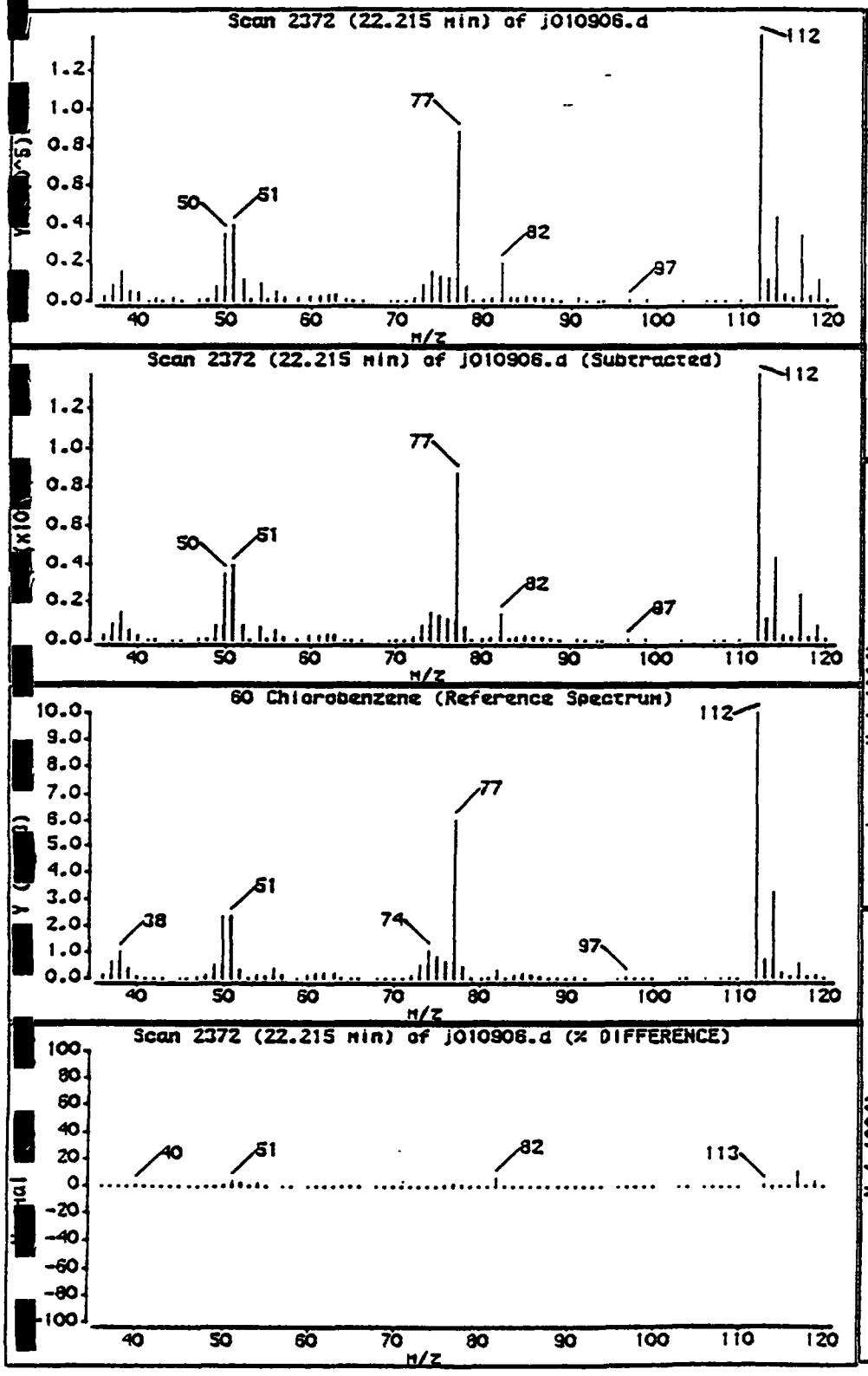
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

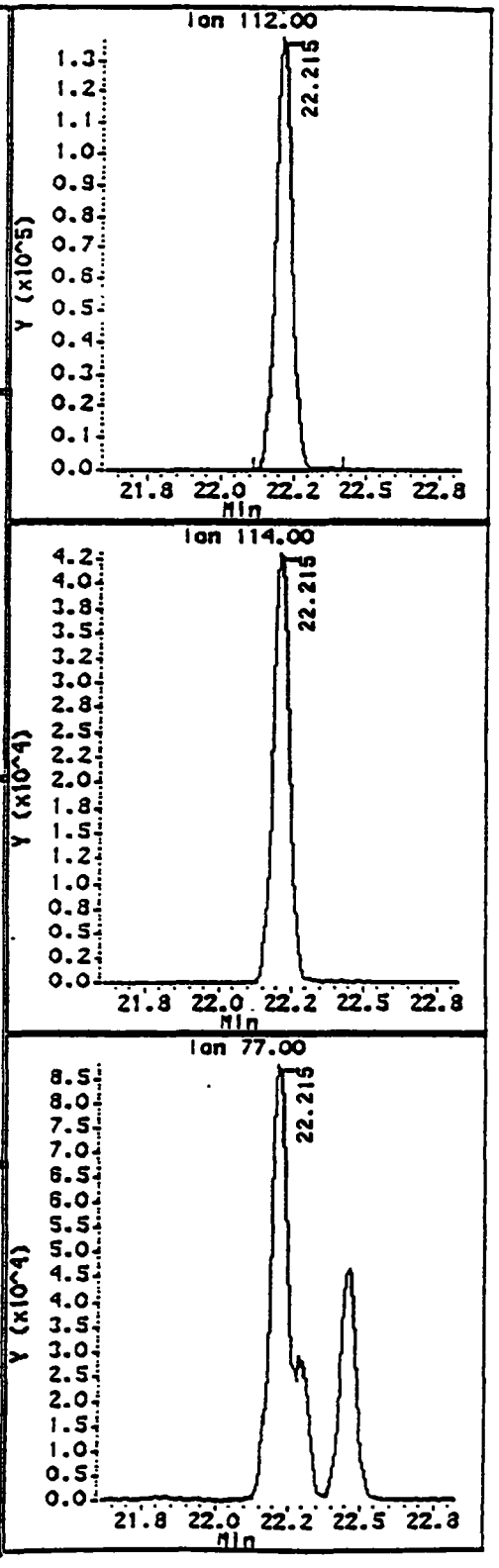
Operator: FR

Column phase: RTx-624

Column diameter: 0.58

60 Chlorobenzene





Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

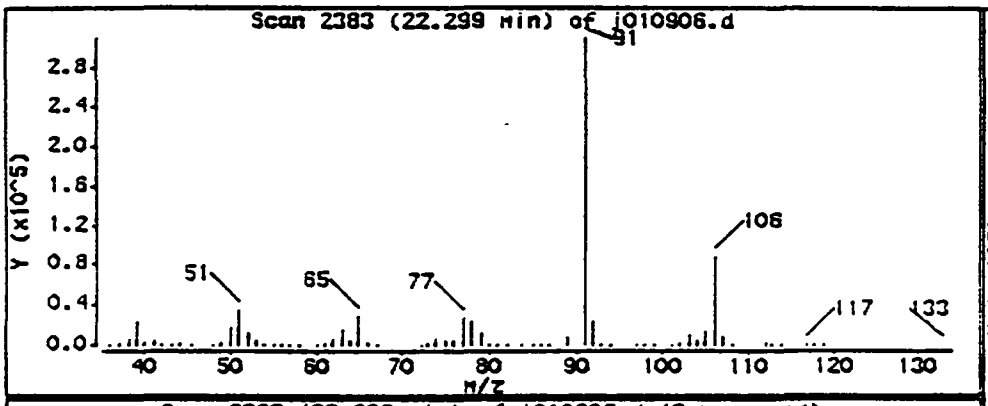
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

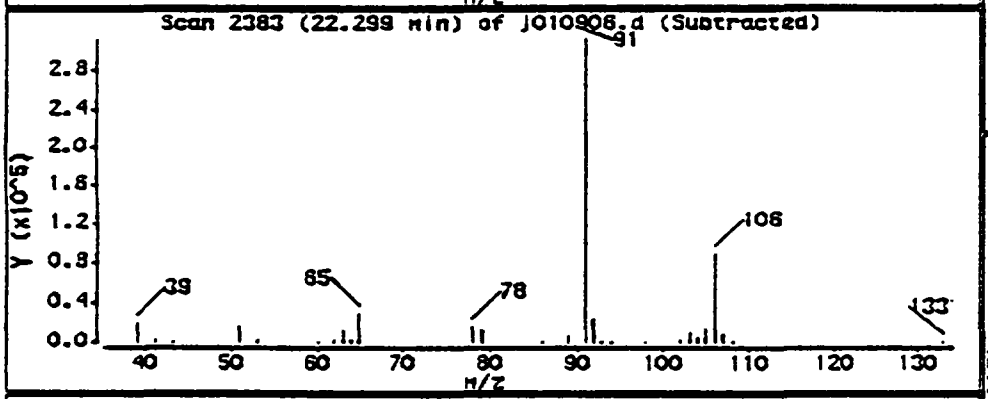
Operator: FA

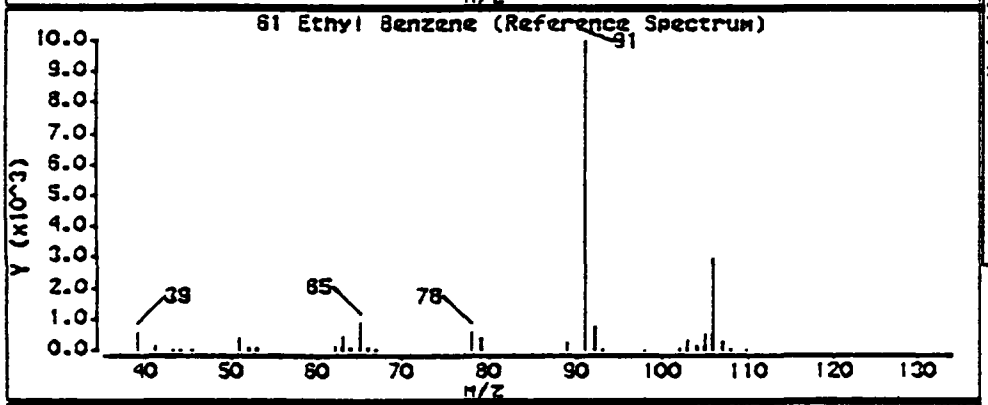
Column phase: RTx-624

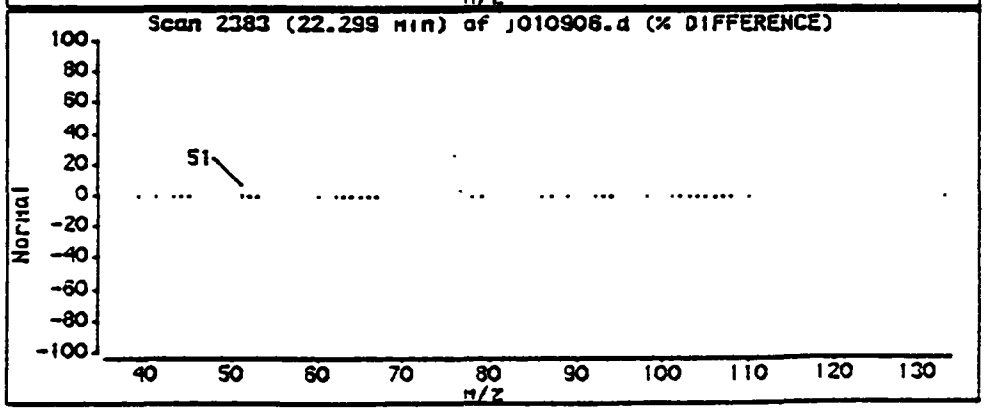
Column diameter: 0.58

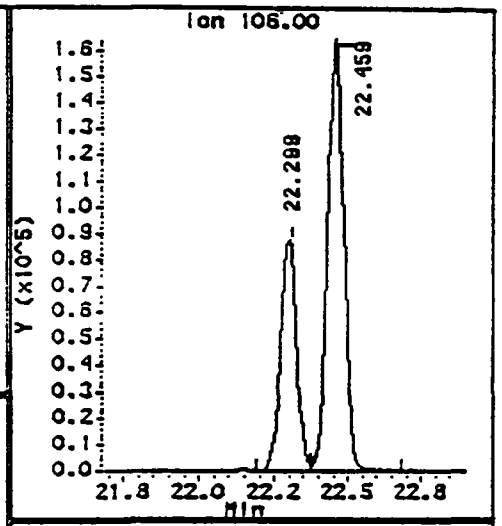
61 Ethyl Benzene

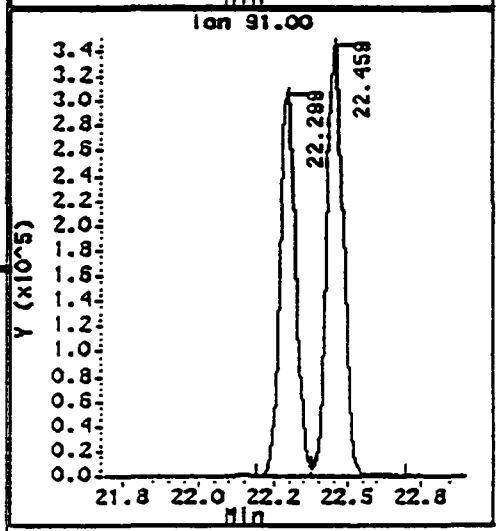






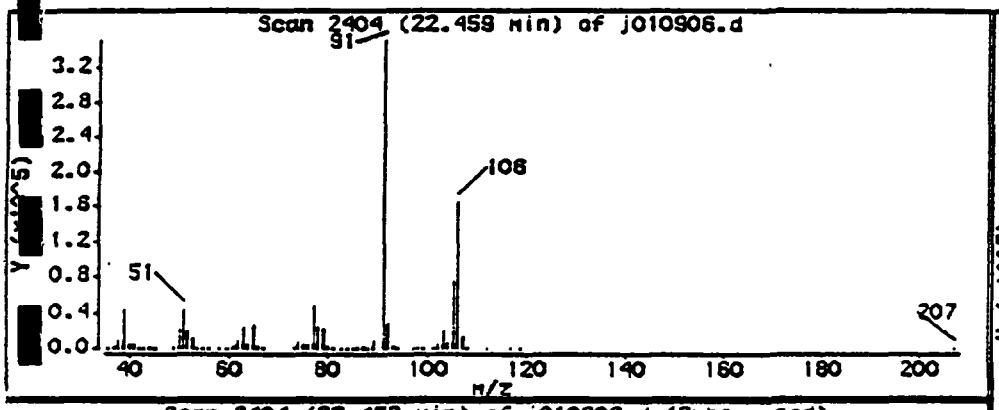


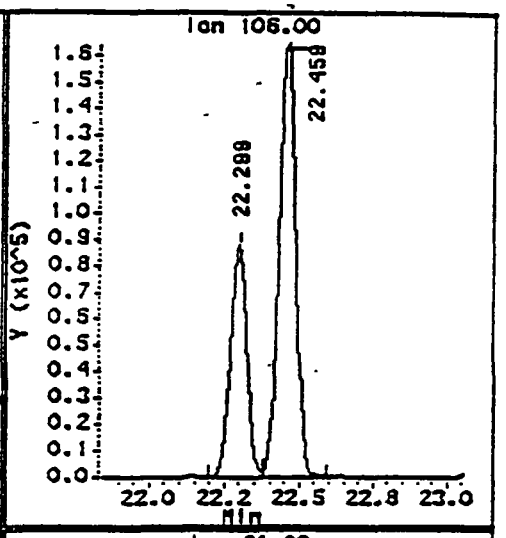


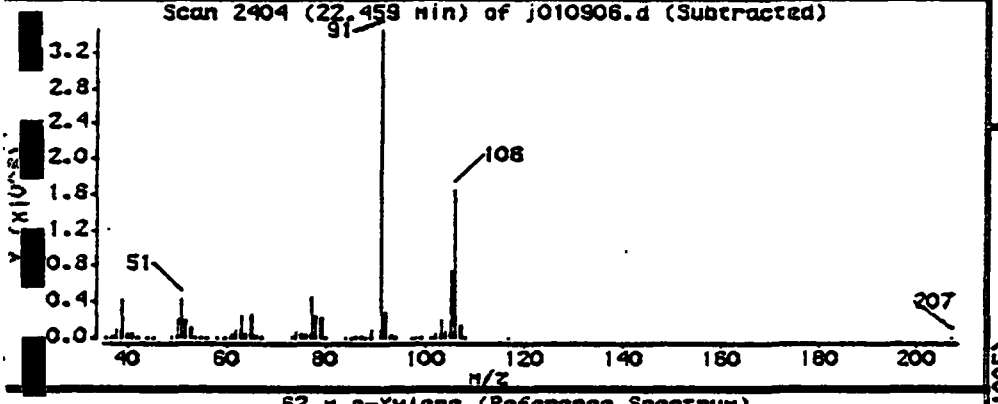


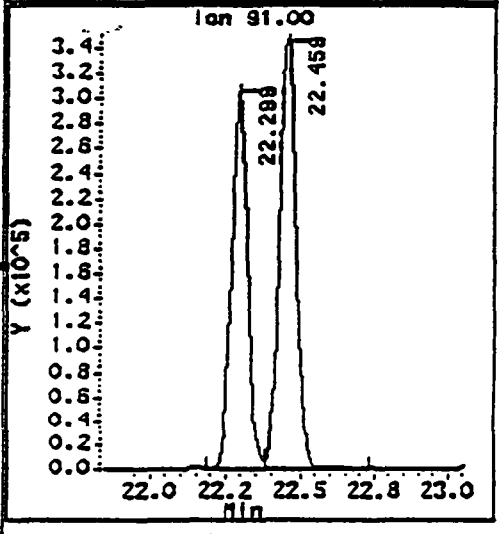
Data File: /chem/msdj.i/j-09jan.b/j010906.d
Date : 09-JAN-97 10:44
Client ID: VSTD005
Instrument: msdj.i
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)
Operator: FA
Column phase: RTx-624
Column diameter: 0.58

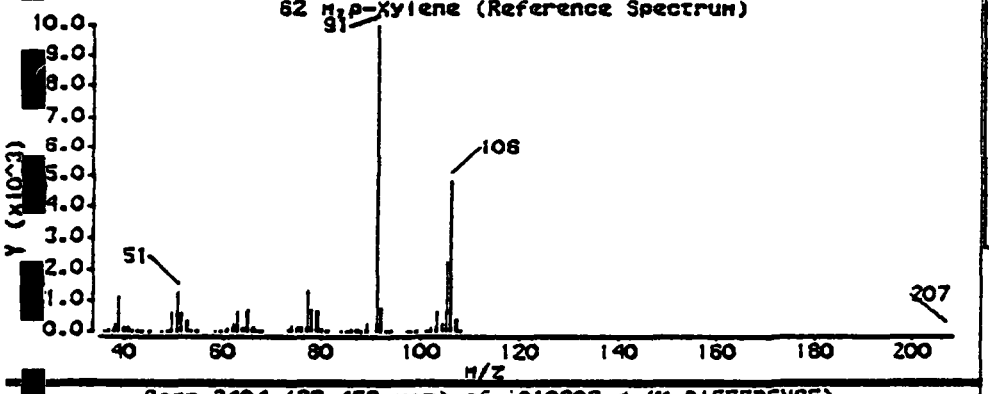
62 m,p-Xylene

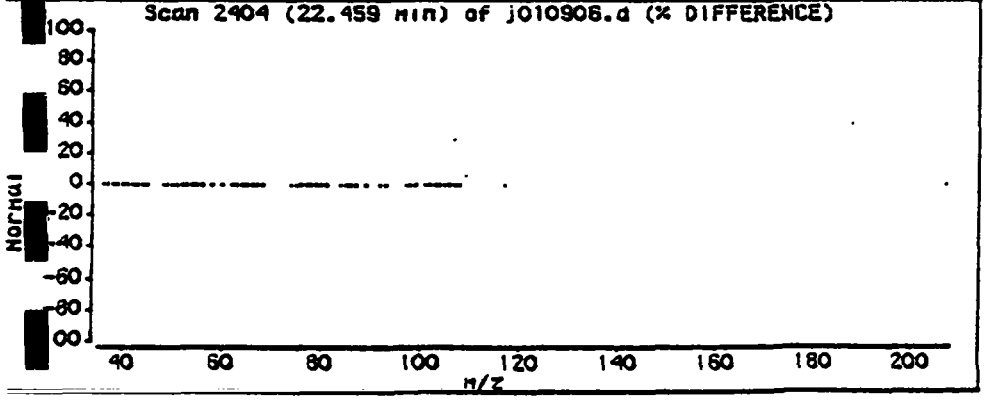












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

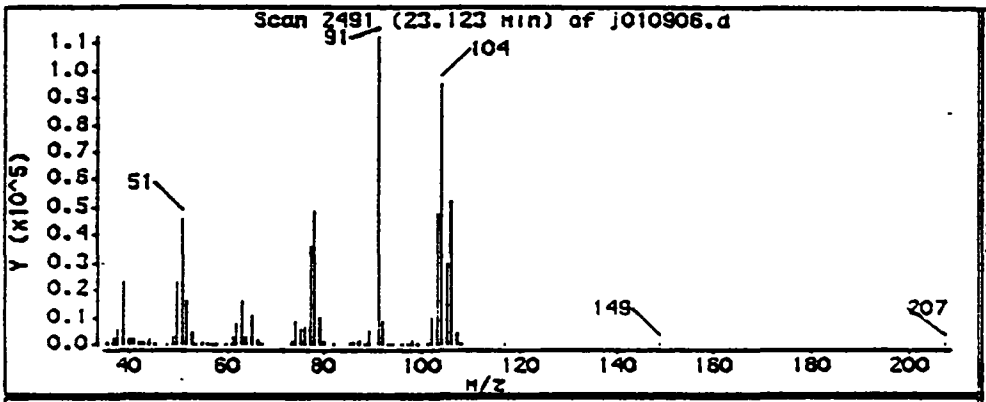
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

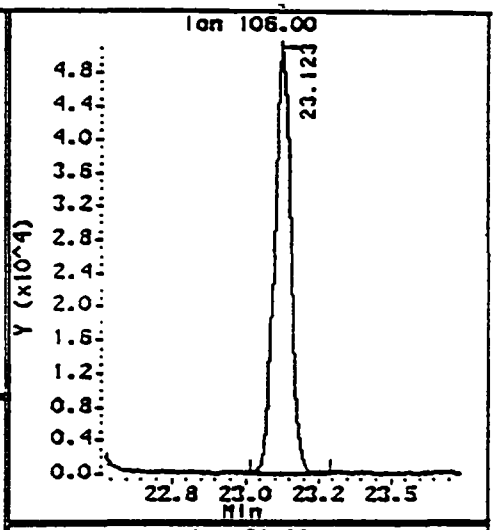
Operator: FR

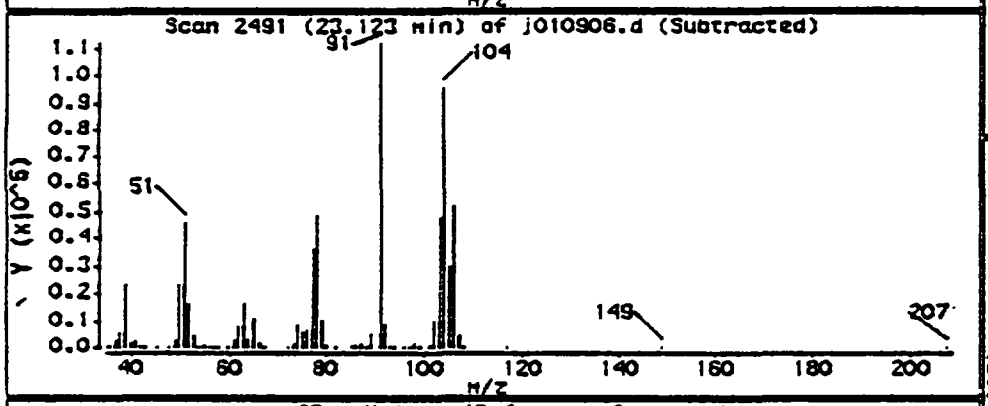
Column phase: RTx-624

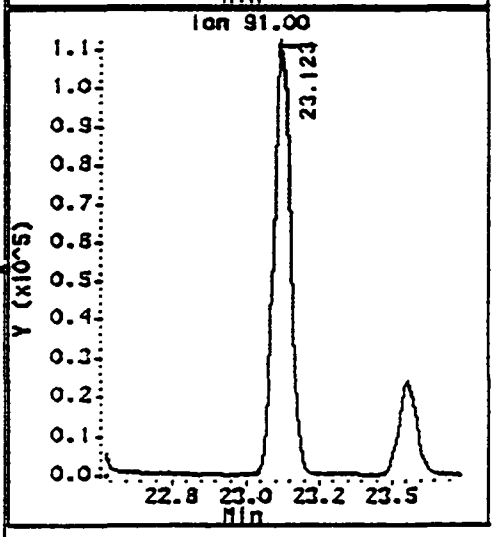
Column diameter: 0.58

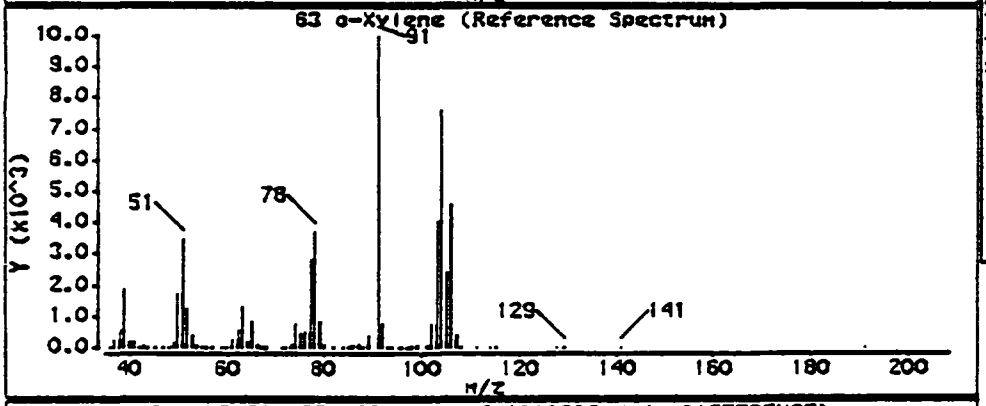
63 o-Xylene

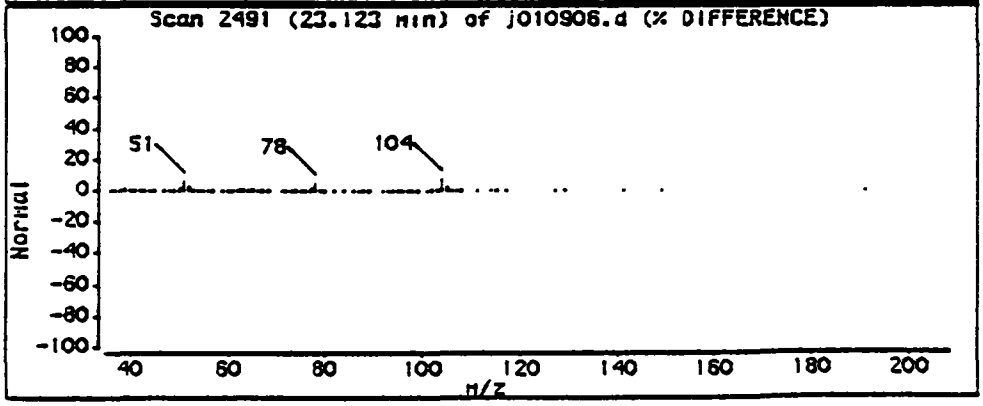












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

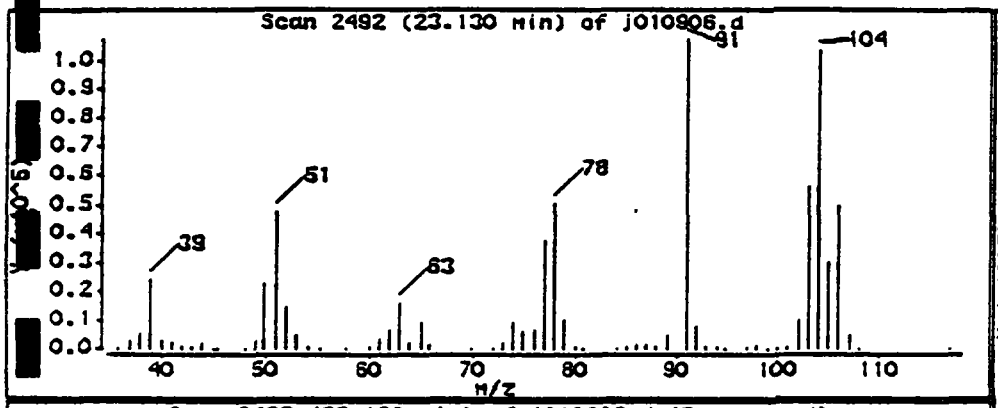
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

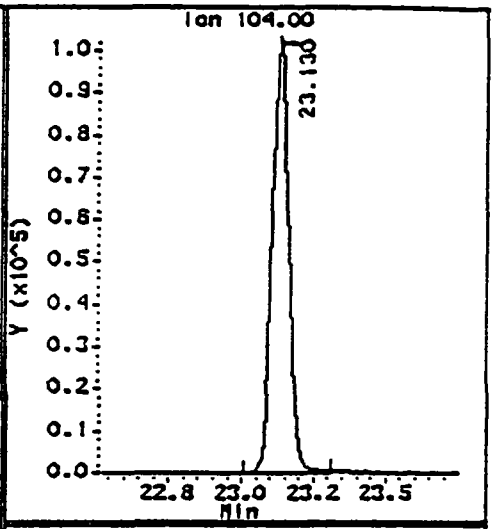
Operator: FR

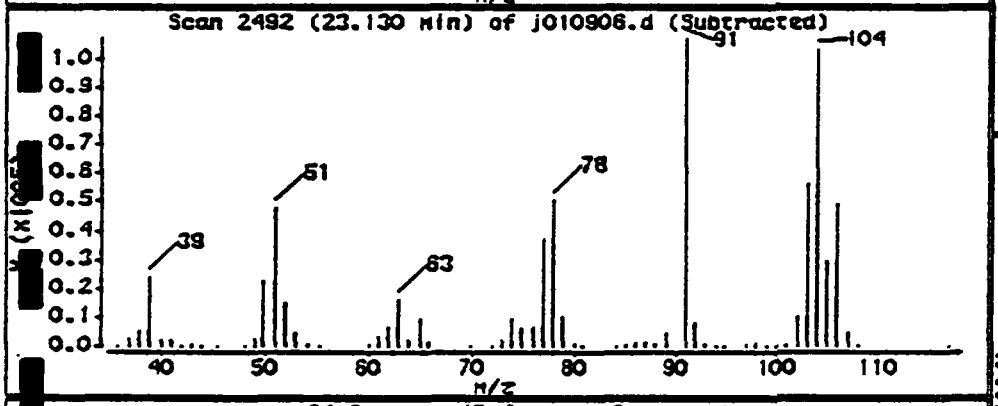
Column phase: RTx-624

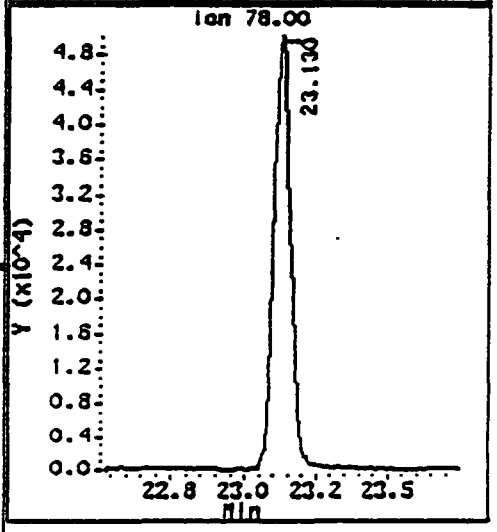
Column diameter: 0.58

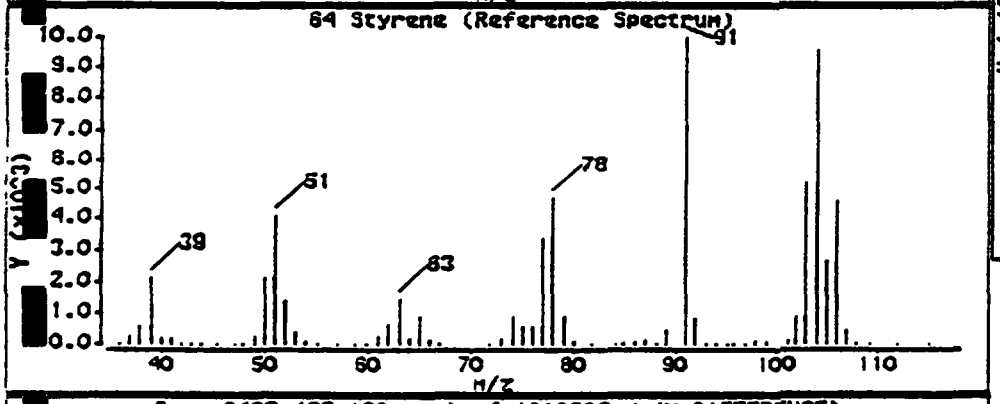
64 Styrene

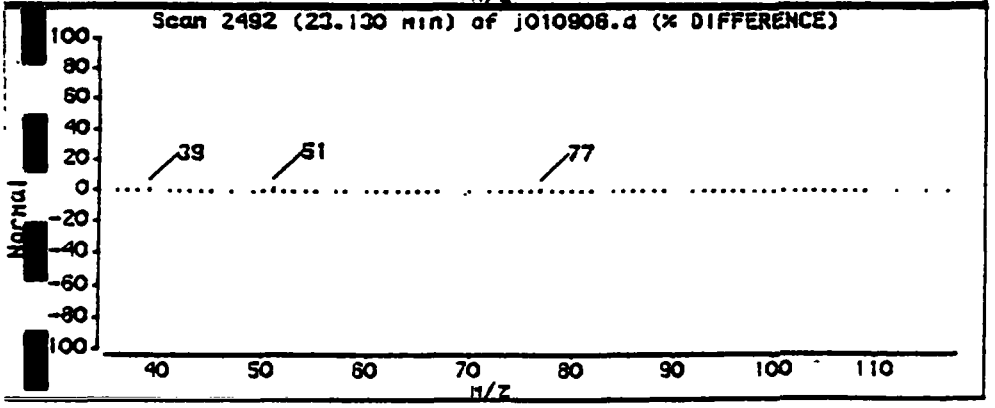












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

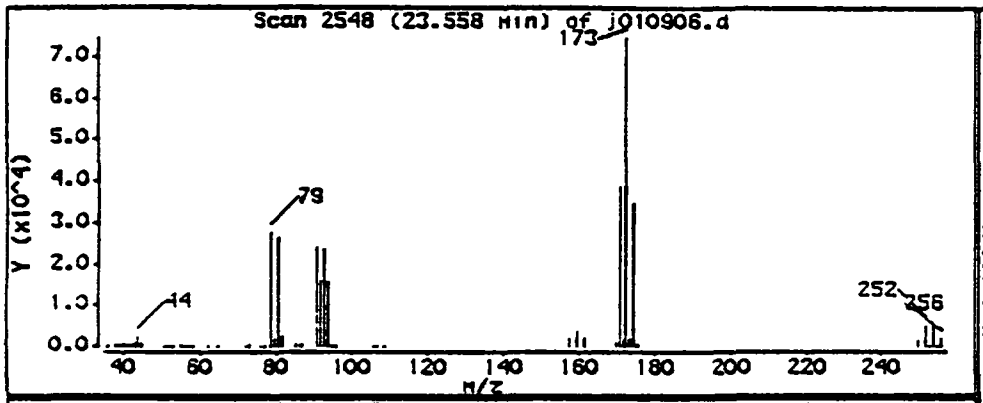
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

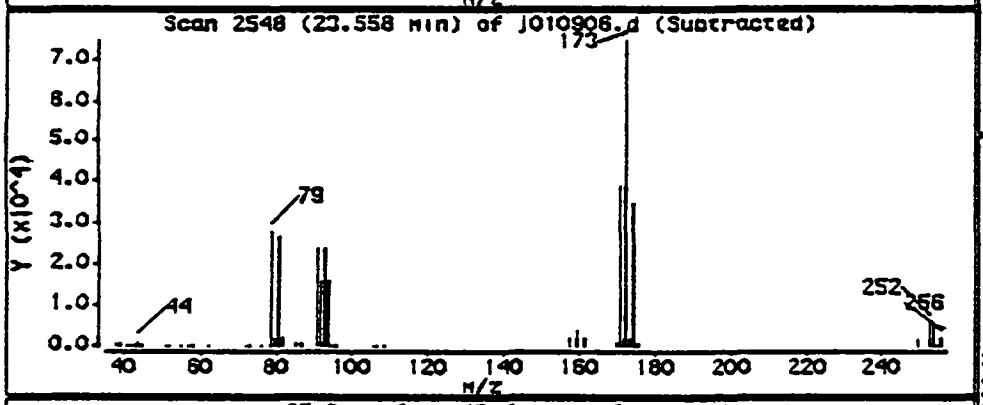
Operator: FA

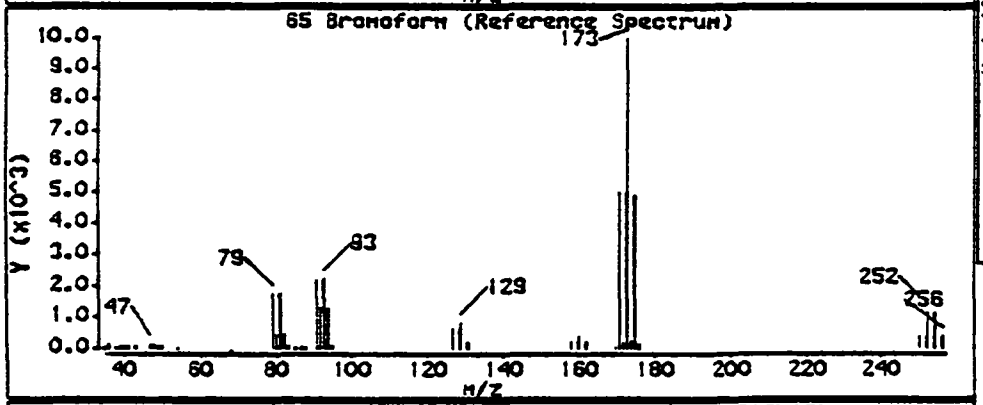
Column phase: RTx-624

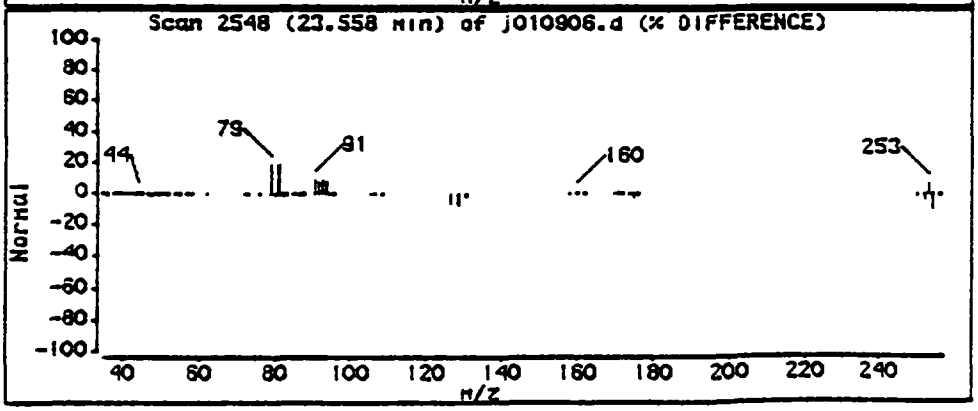
Column diameter: 0.58

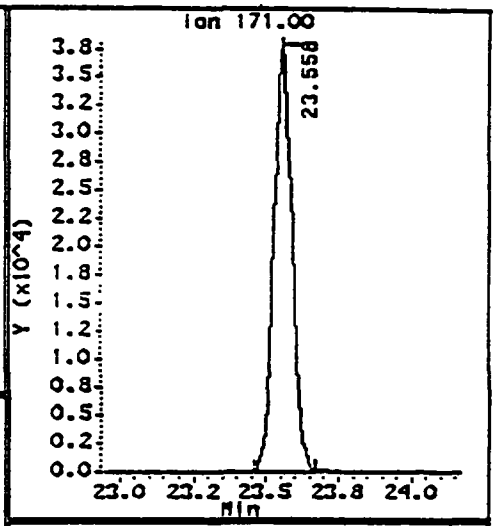
65 Bromoform

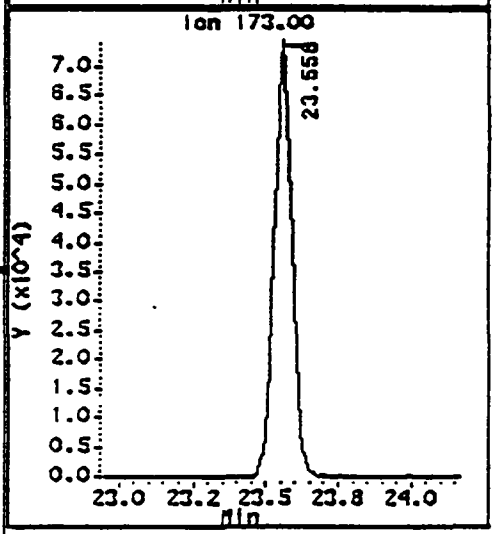












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

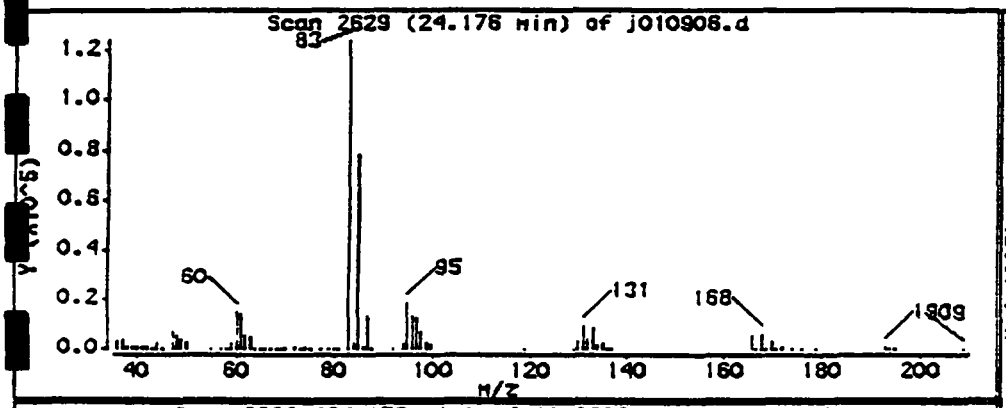
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

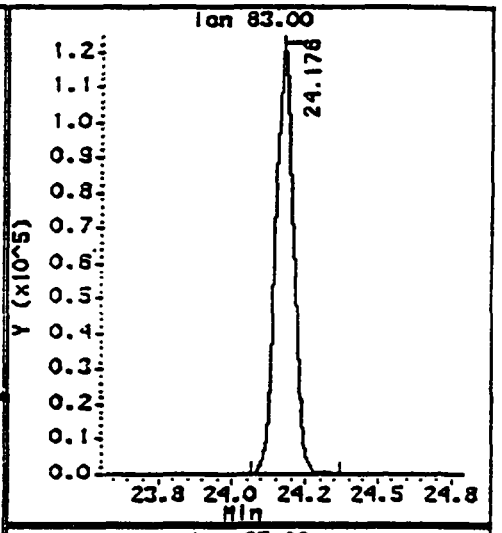
Operator: FR

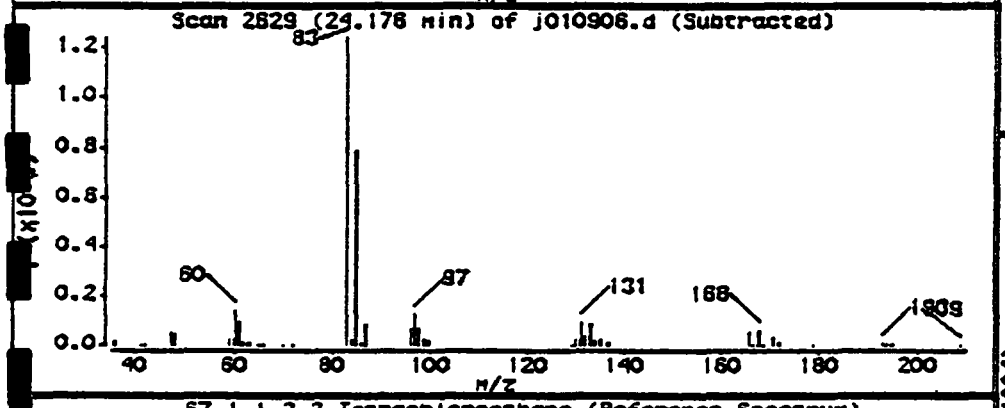
Column phase: RTx-624

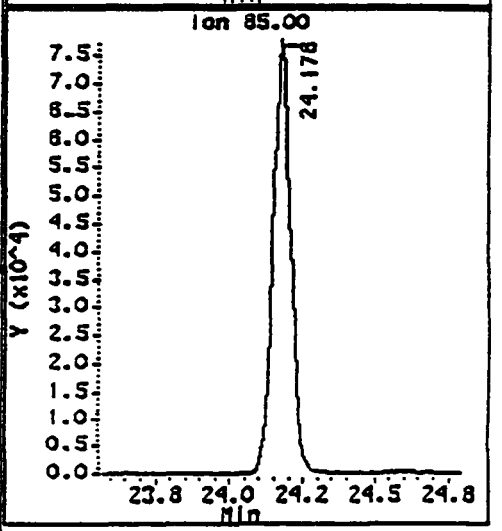
Column diameter: 0.58

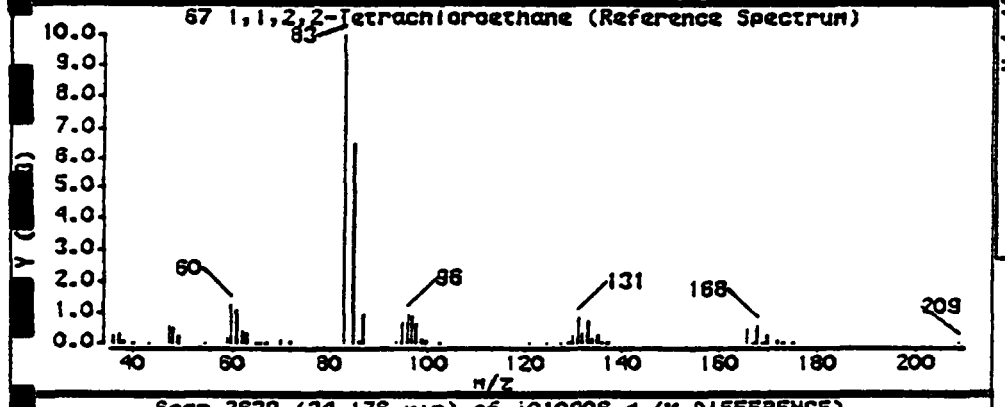
67 1,1,2,2-Tetrachloroethane

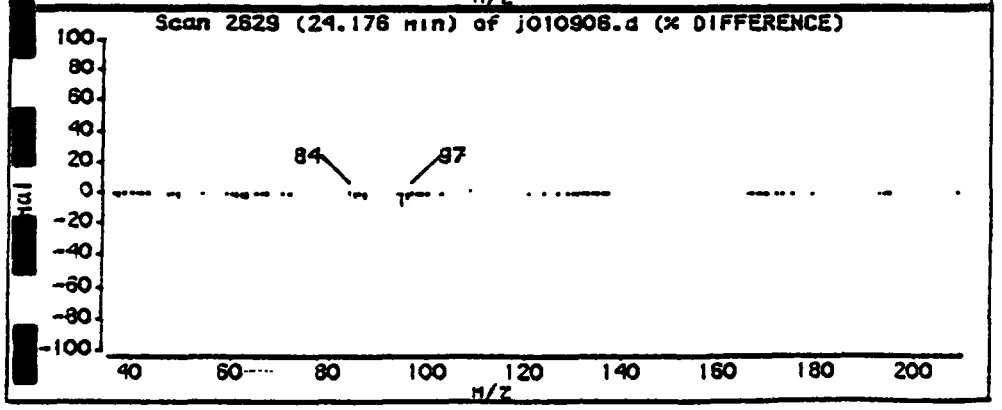












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

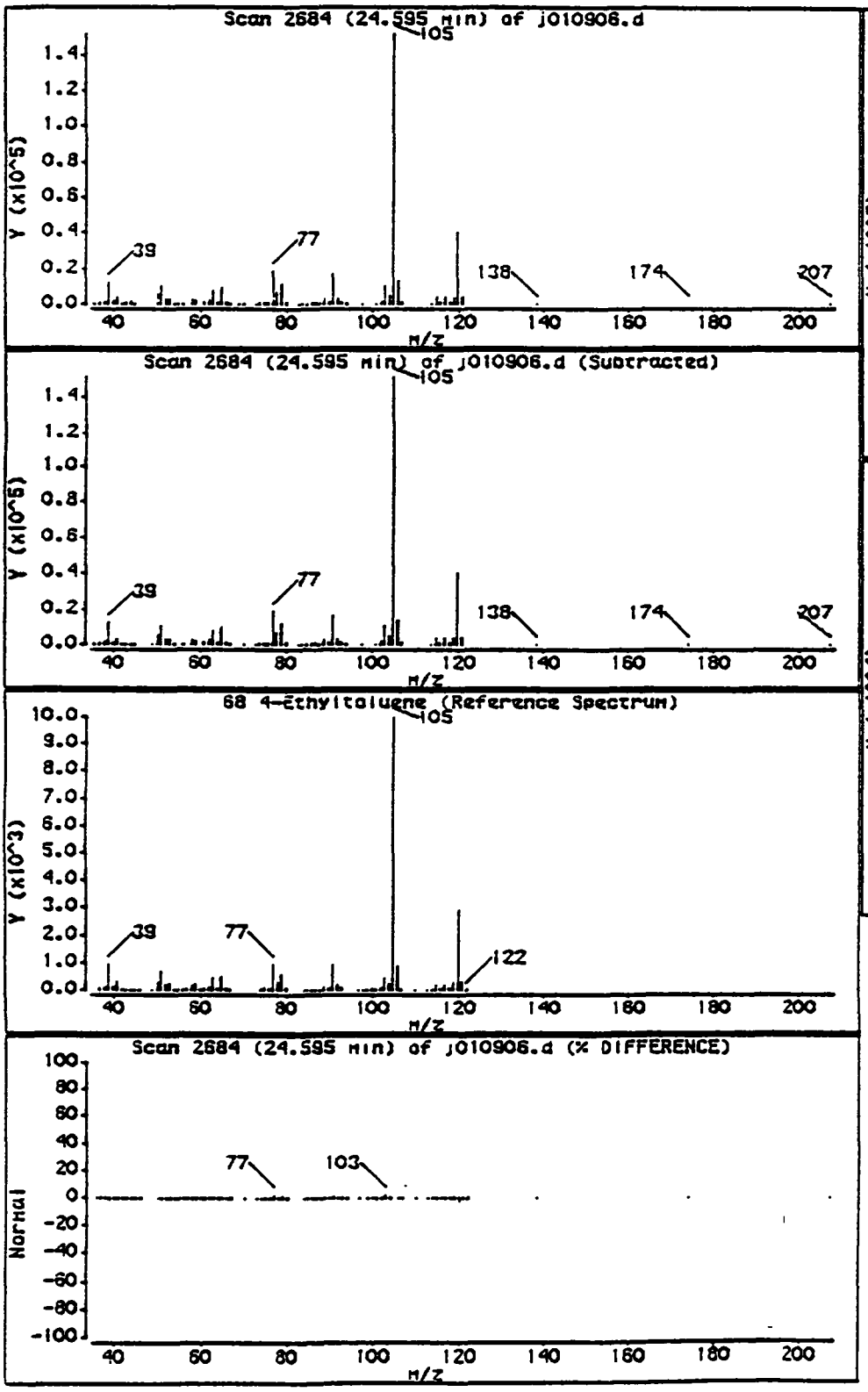
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

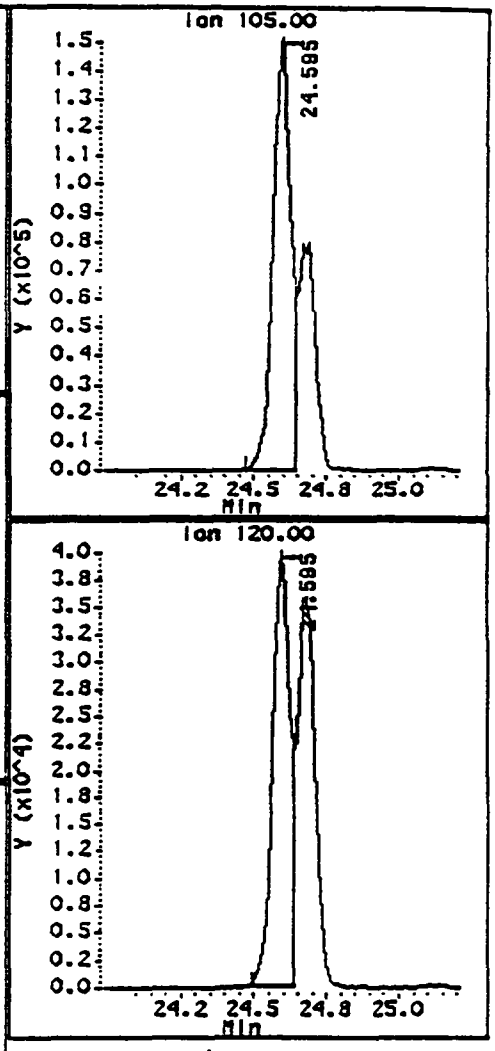
Operator: FA

Column phase: RTx-624

Column diameter: 0.58

68 4-Ethyltoluene





Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

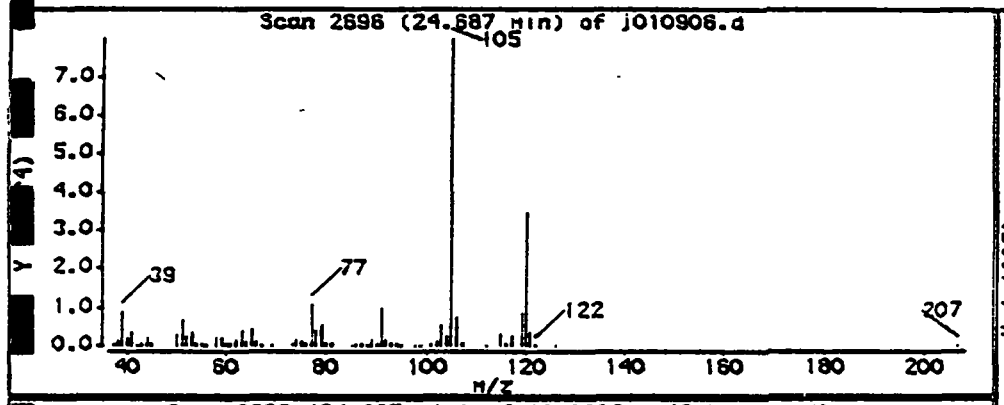
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

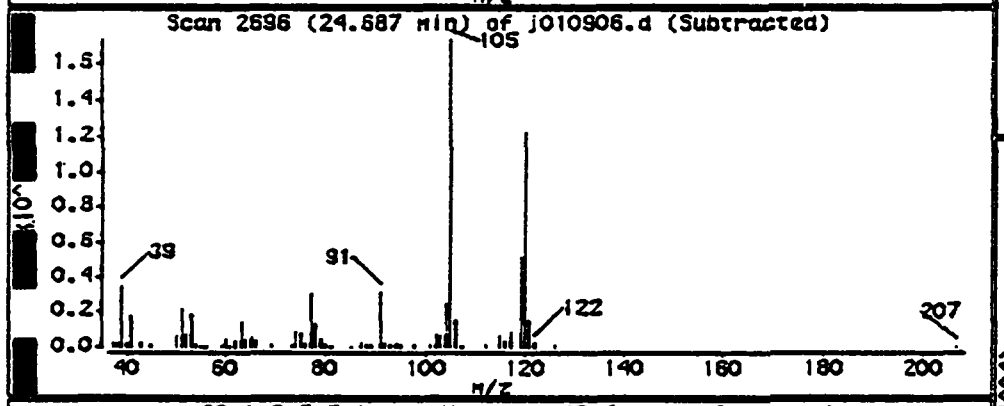
Operator: FA

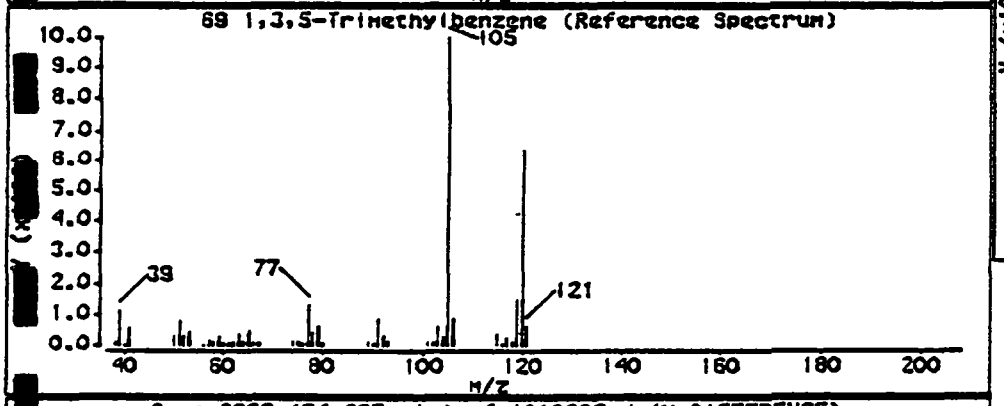
Column phase: RTx-624

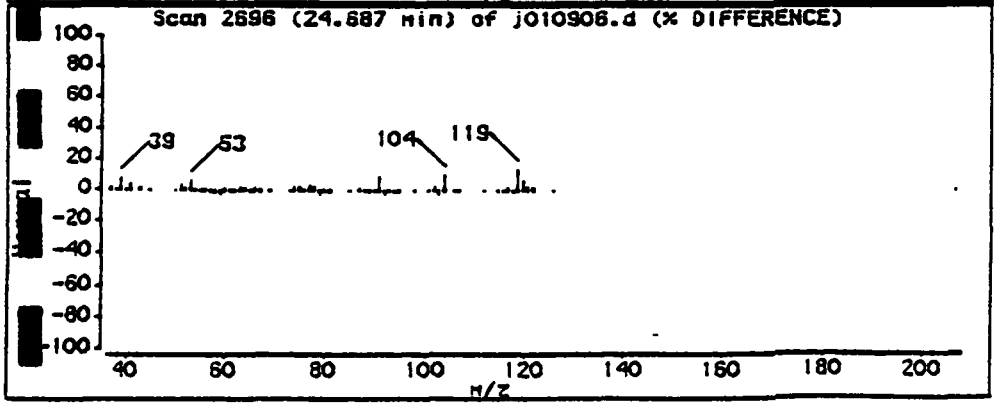
Column diameter: 0.58

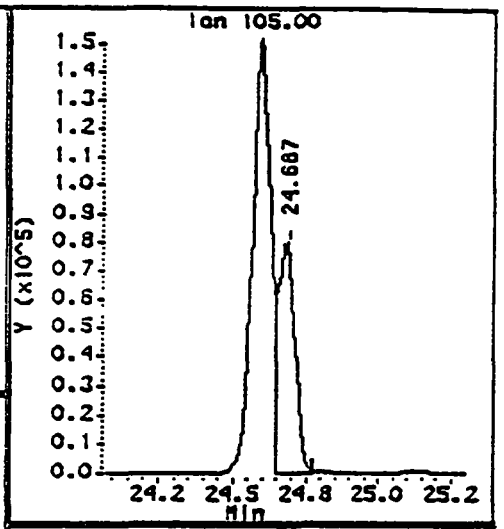
69 1,3,5-Trimethylbenzene

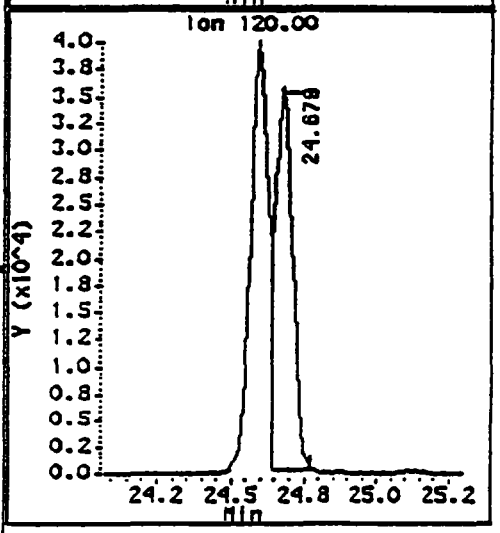






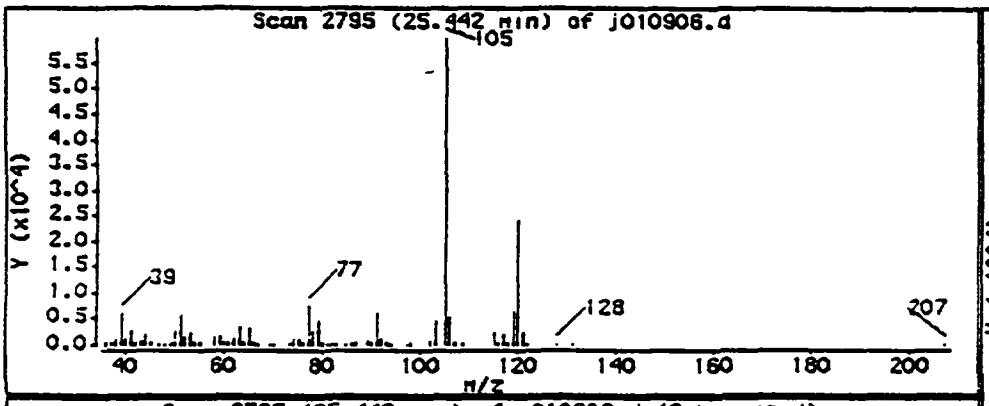


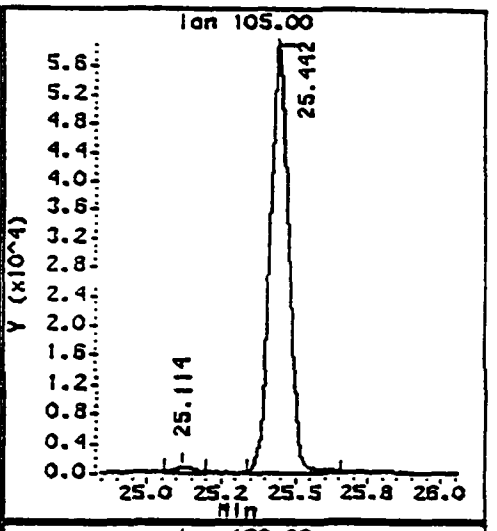


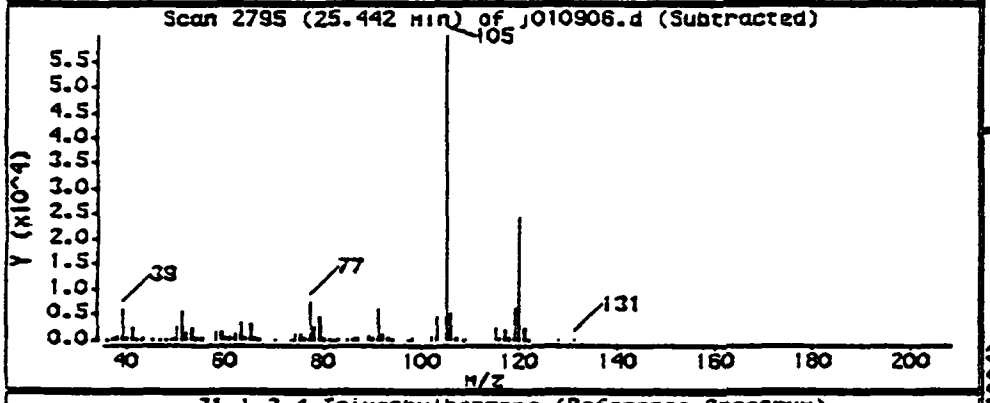


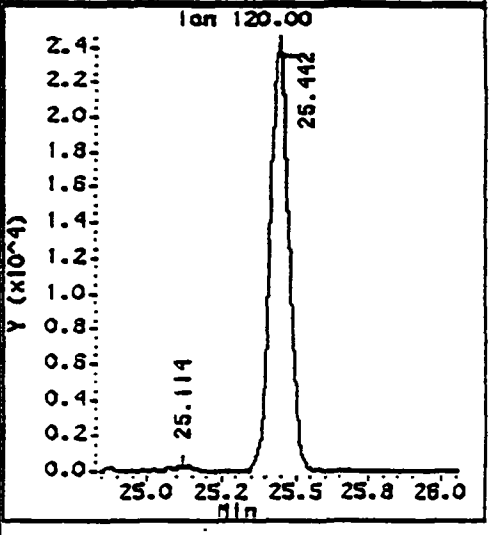
Data File: /chem/msdj.i/j-09jan.b/j010906.d
Date : 09-JAN-97 10:44
Client ID: VSTD005
Instrument: msdj.i
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)
Operator: FR
Column phase: RTx-624
Column diameter: 0.58

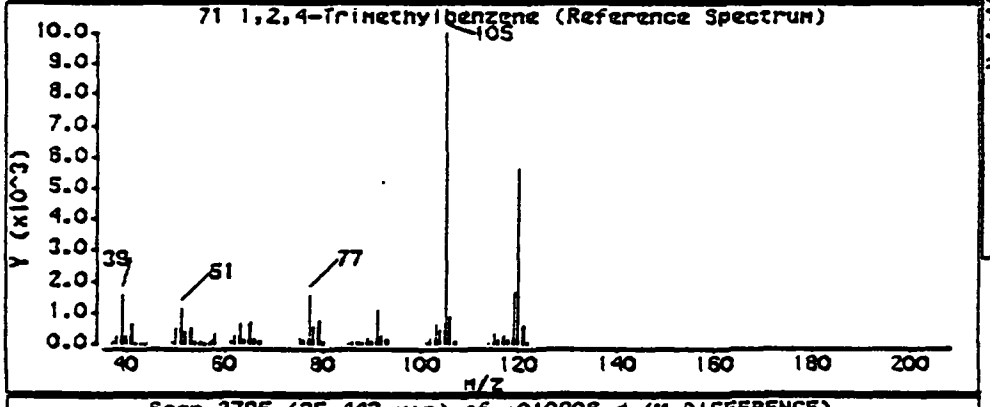
71 1,2,4-Trimethylbenzene

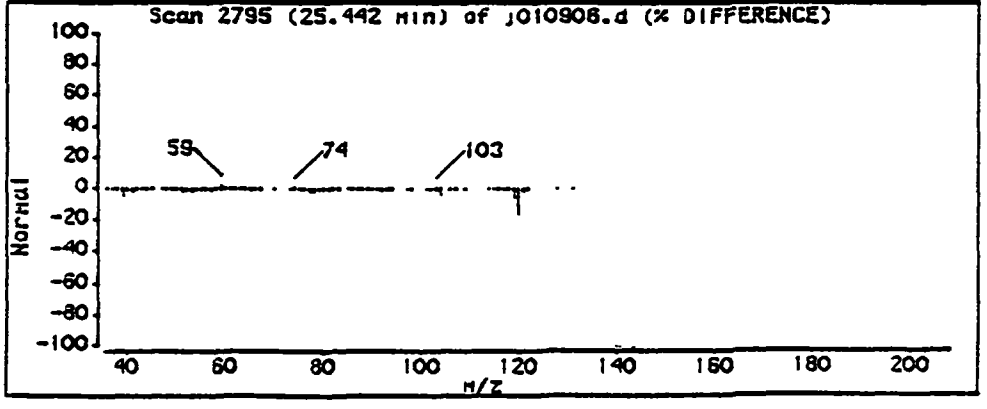












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

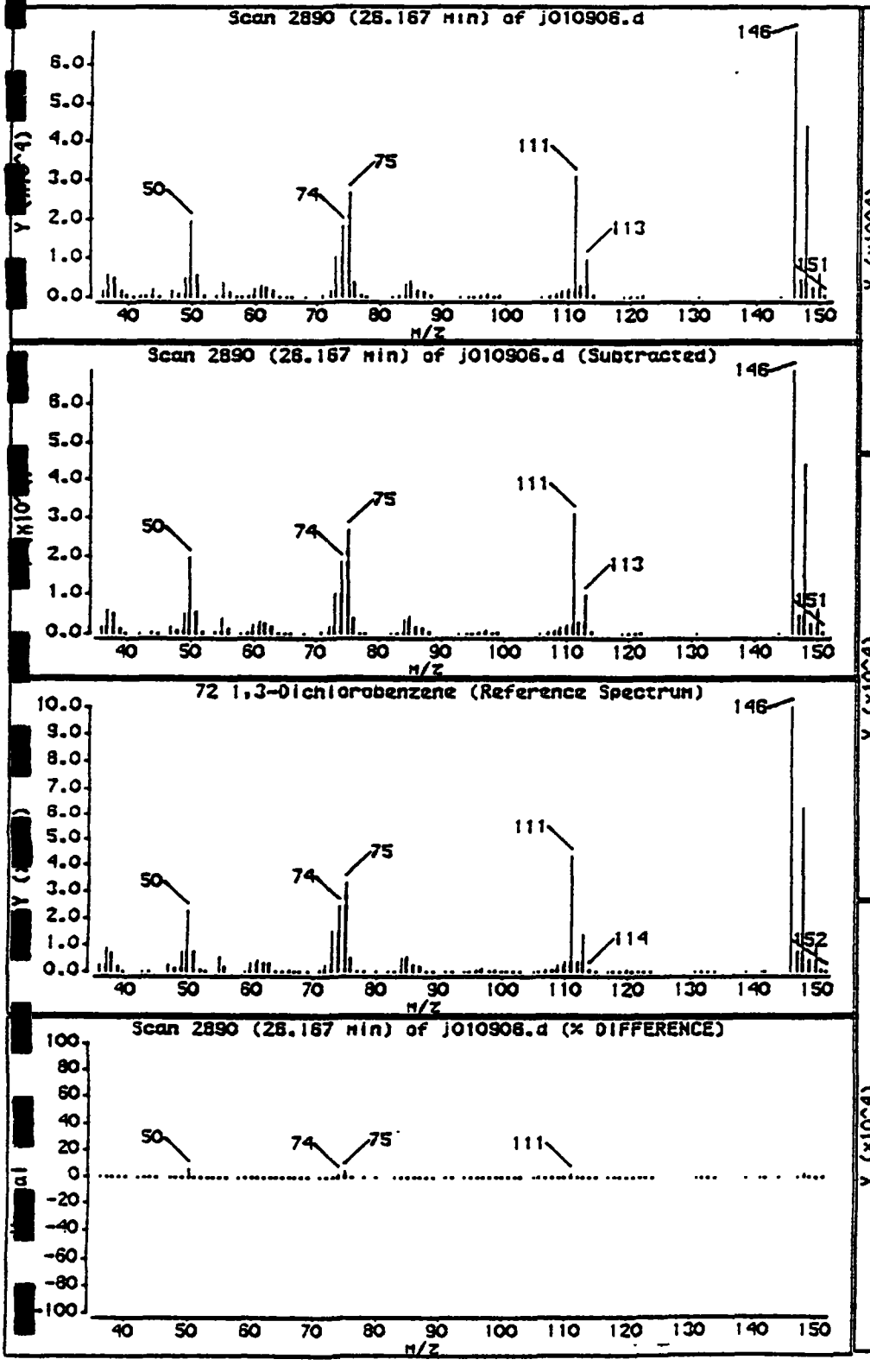
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

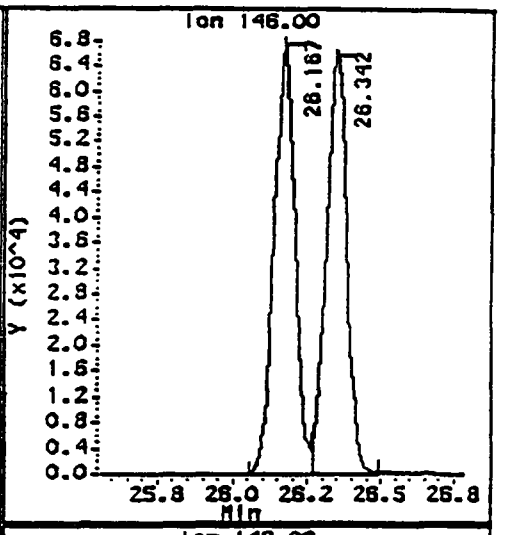
Operator: FA

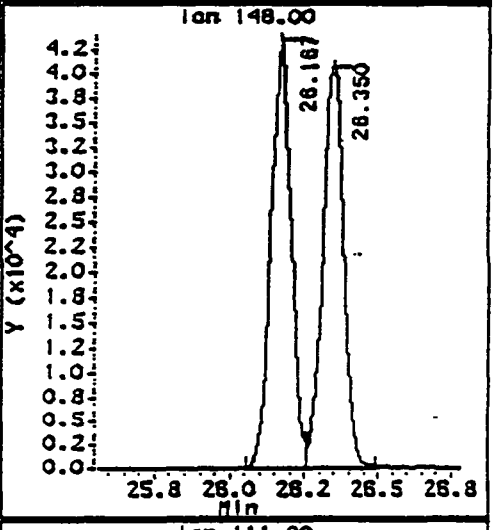
Column phase: RTx-624

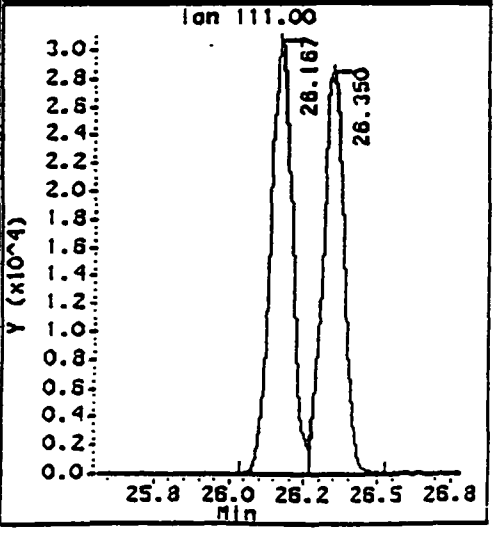
Column diameter: 0.58

72 1,3-Dichlorobenzene









Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

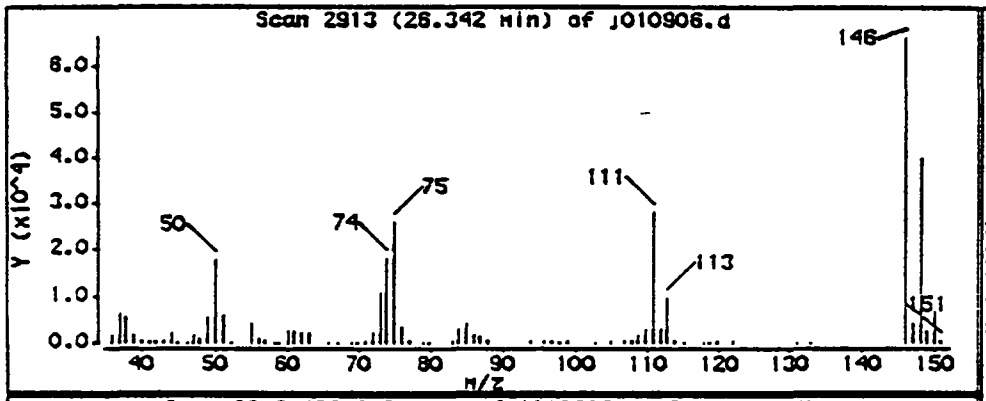
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

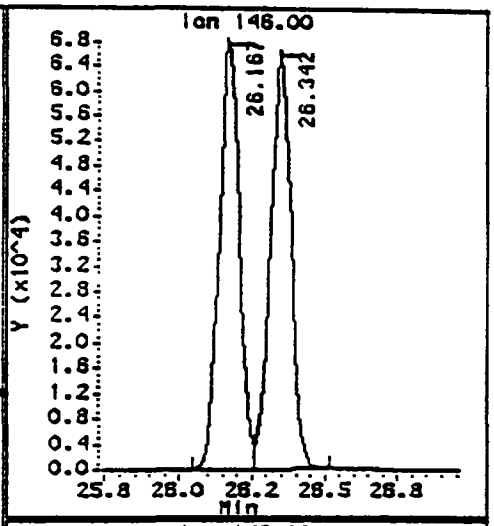
Operator: FR

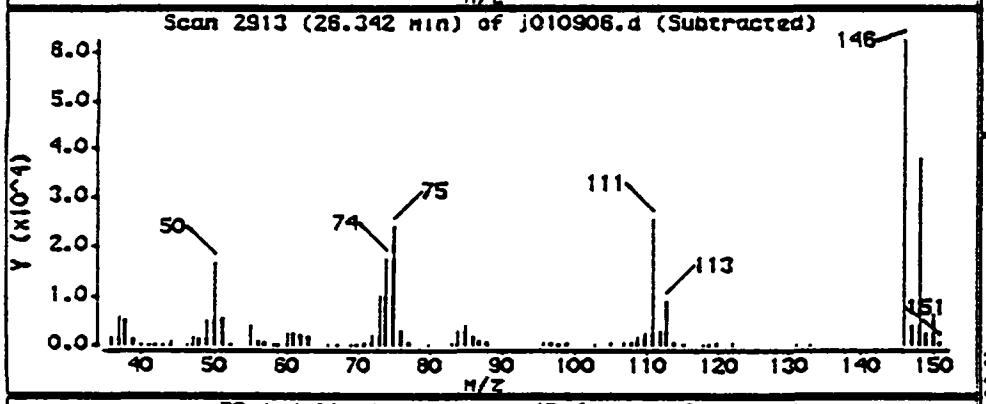
Column phase: RTx-624

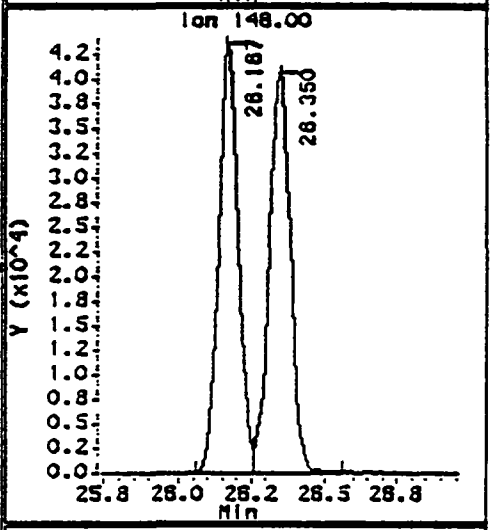
Column diameter: 0.58

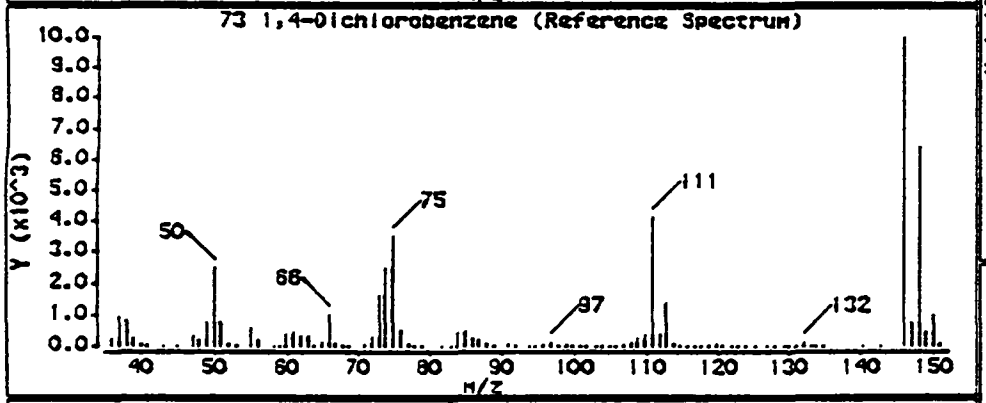
73 1,4-Dichlorobenzene

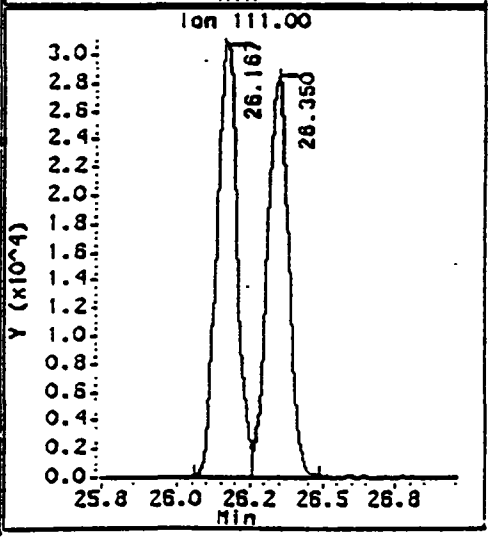


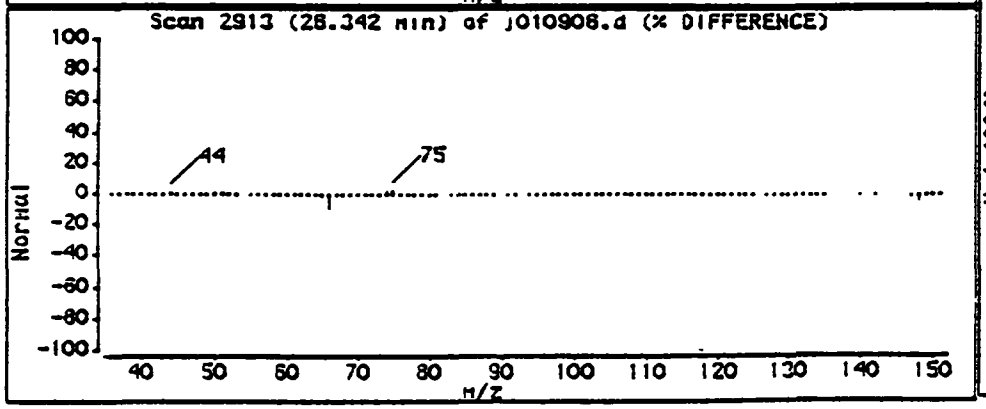












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

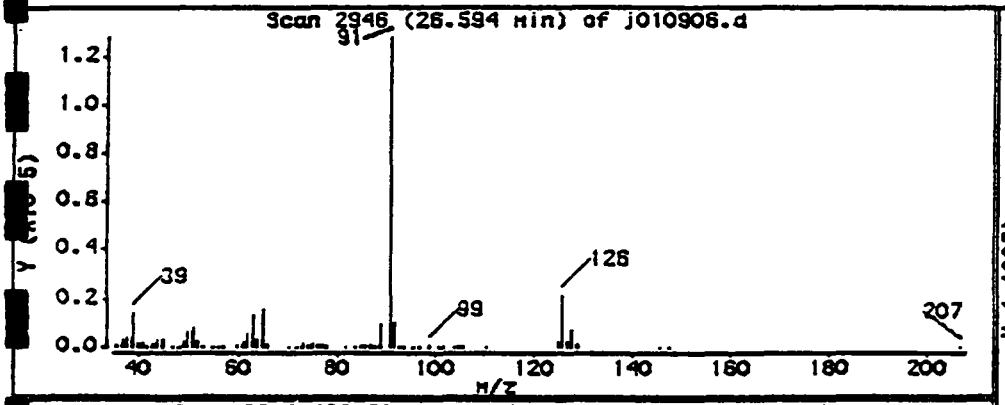
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

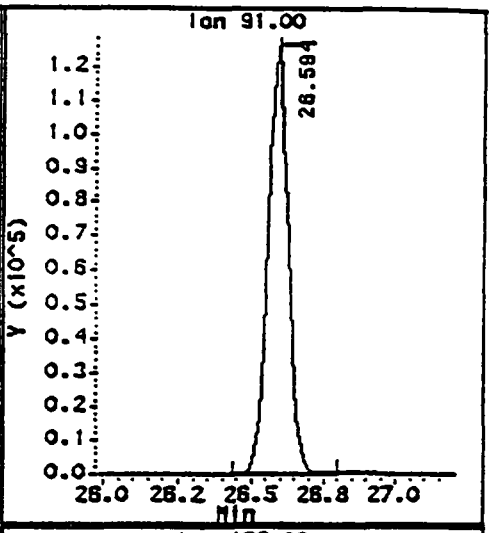
Operator: FA

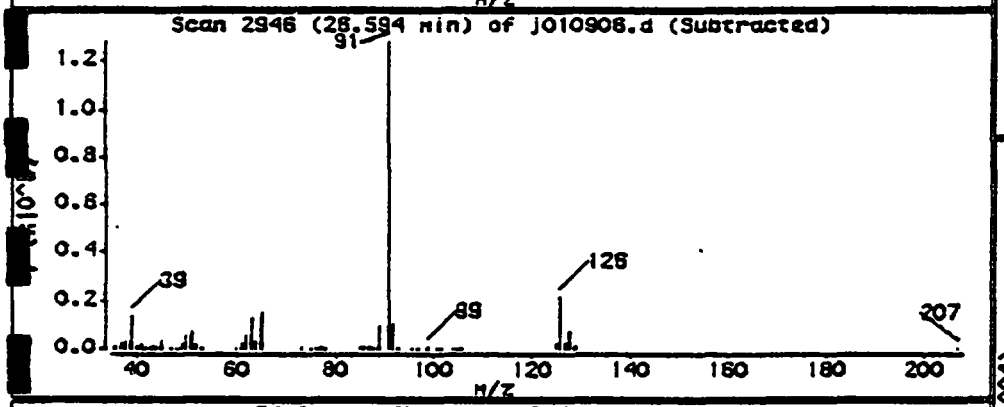
Column phase: RTx-624

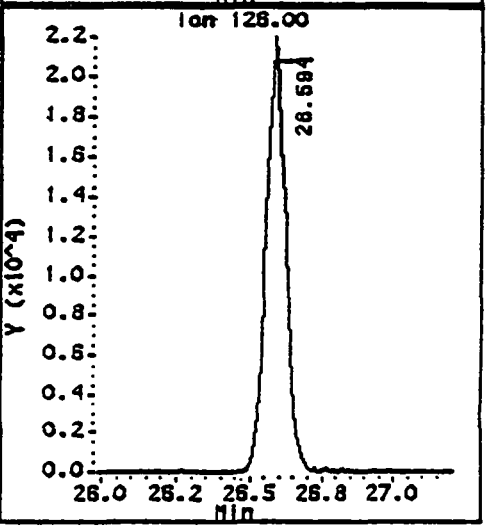
Column diameter: 0.58

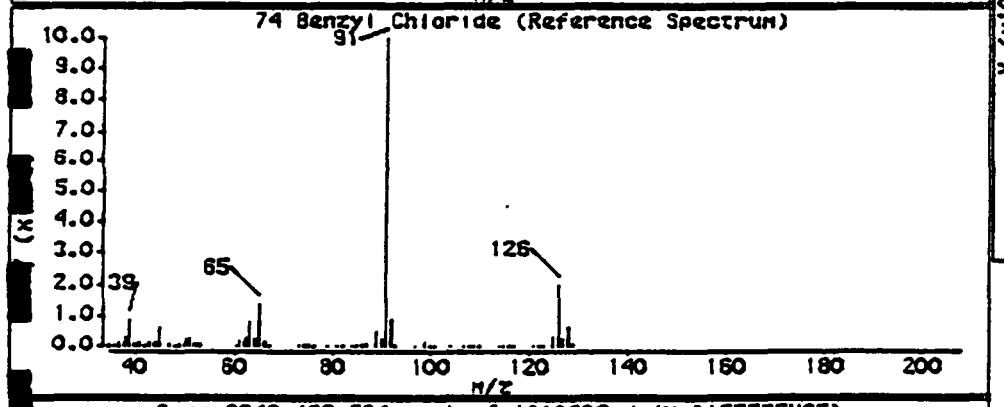
74 Benzyl Chloride

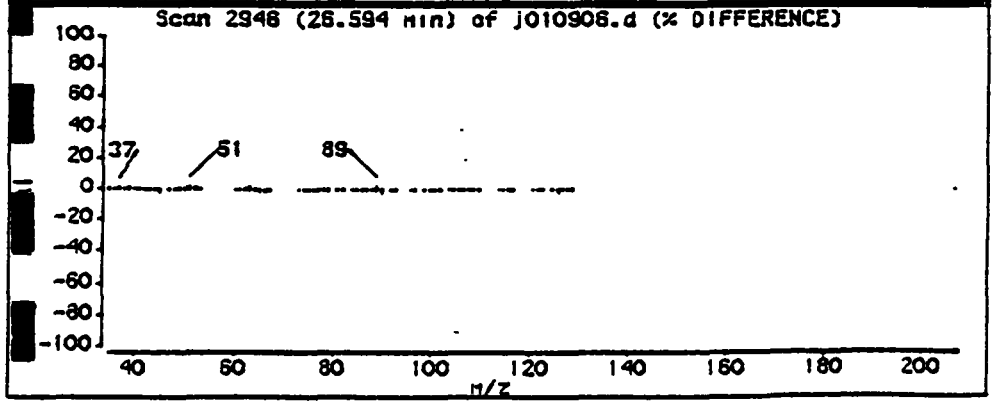












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

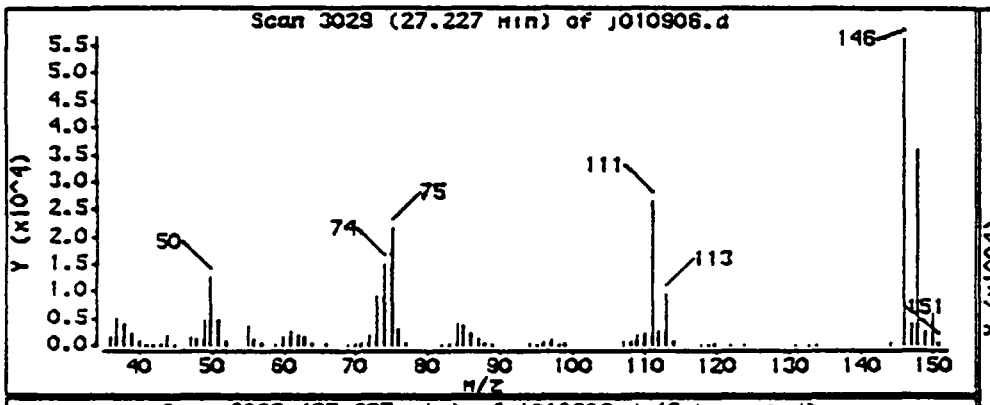
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

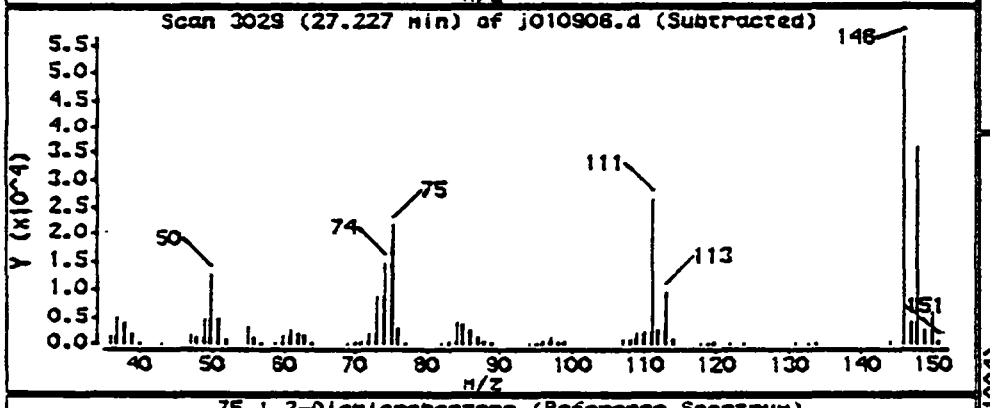
Operator: FA

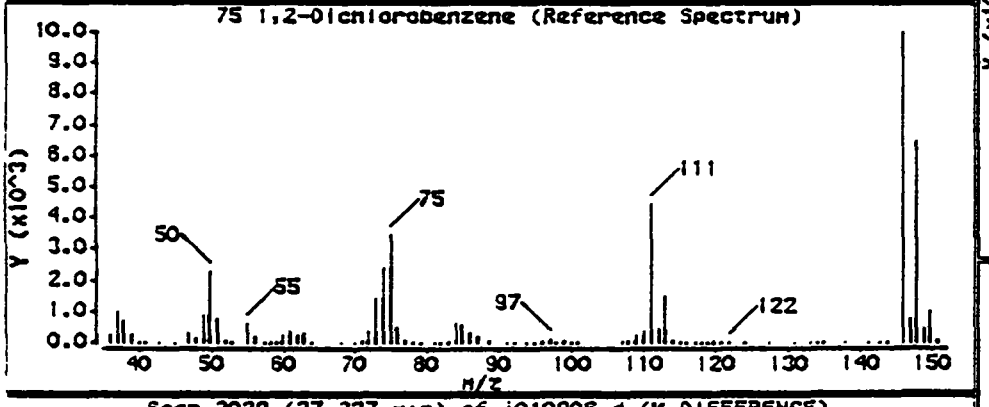
Column phase: RTx-624

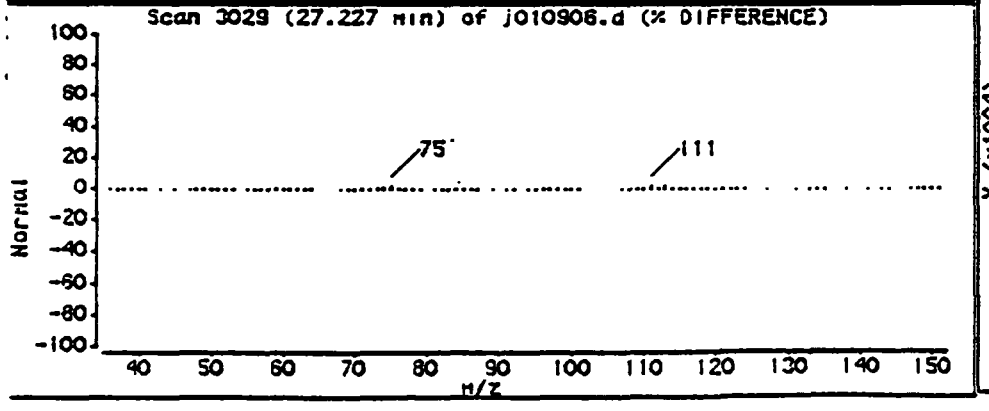
Column diameter: 0.58

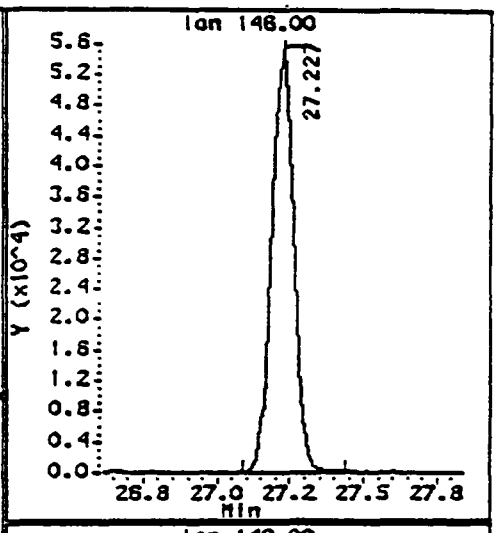
75 1,2-Dichlorobenzene

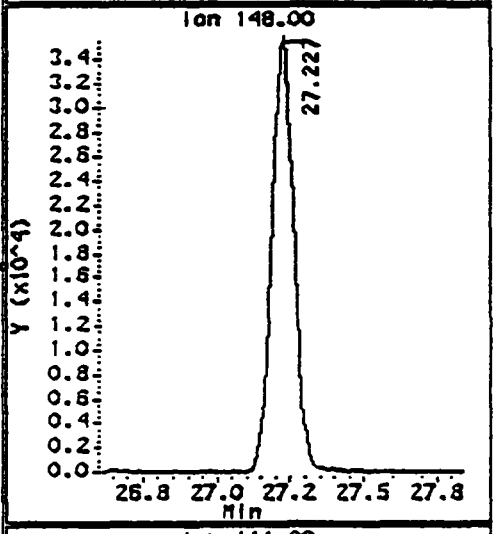


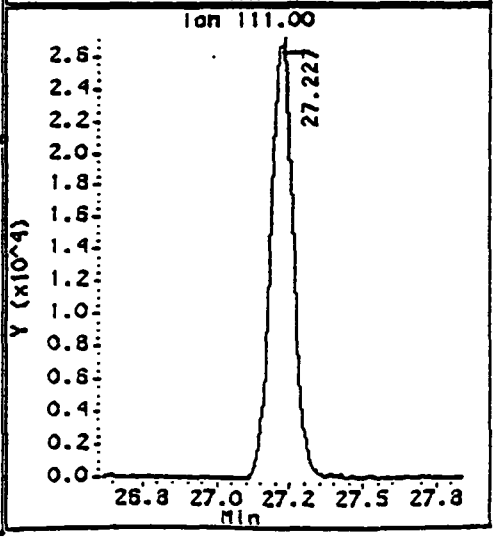












Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

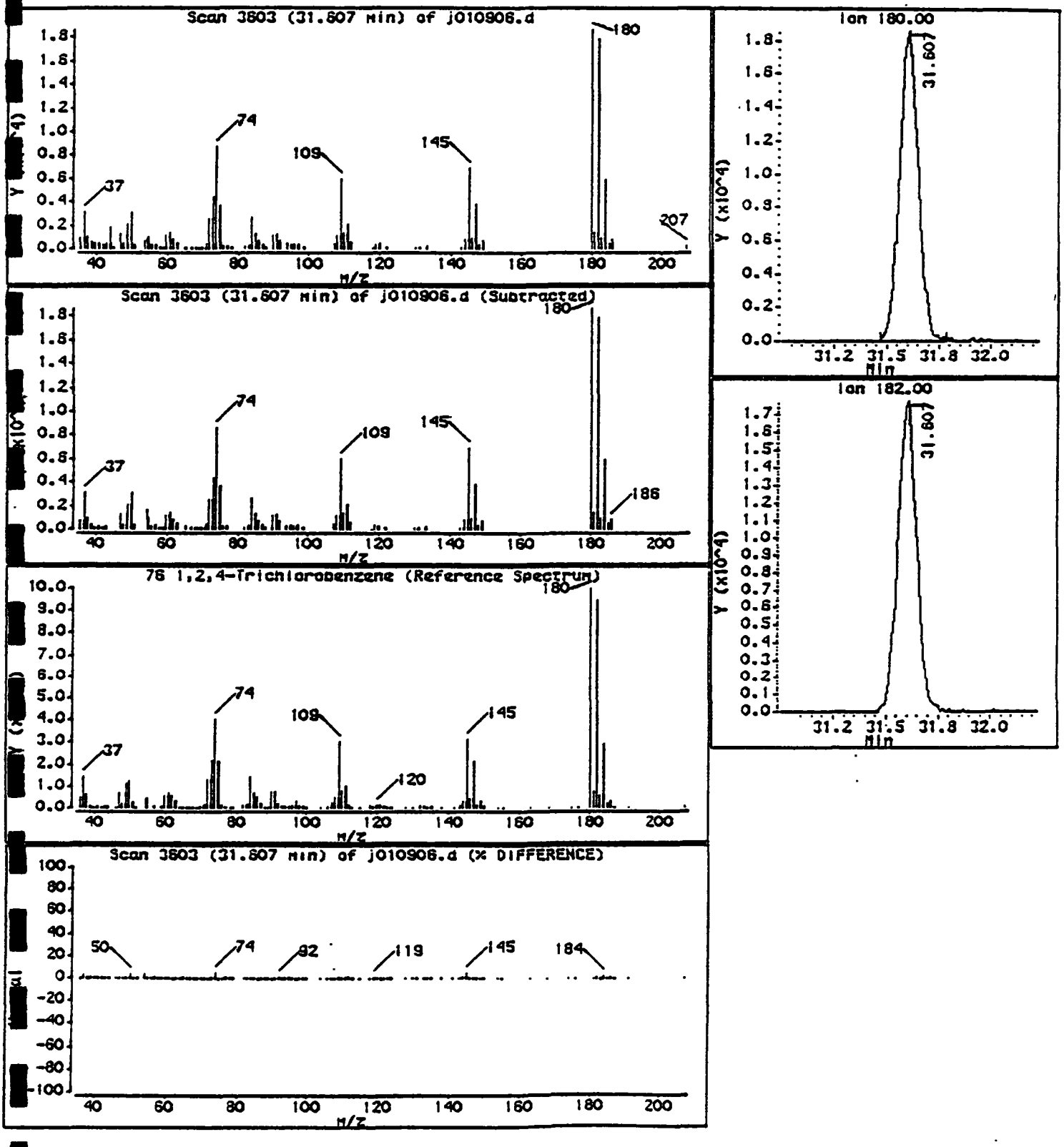
Sample Info: 25.0ml #296-25 100ppbv (5.0ppbv)

Operator: FR

Column phase: RTx-624

Column diameter: 0.58

76 1,2,4-Trichlorobenzene



Data File: /chem/msdj.i/j-09jan.b/j010906.d

Date : 09-JAN-97 10:44

Client ID: VSTD005

Instrument: msdj.i

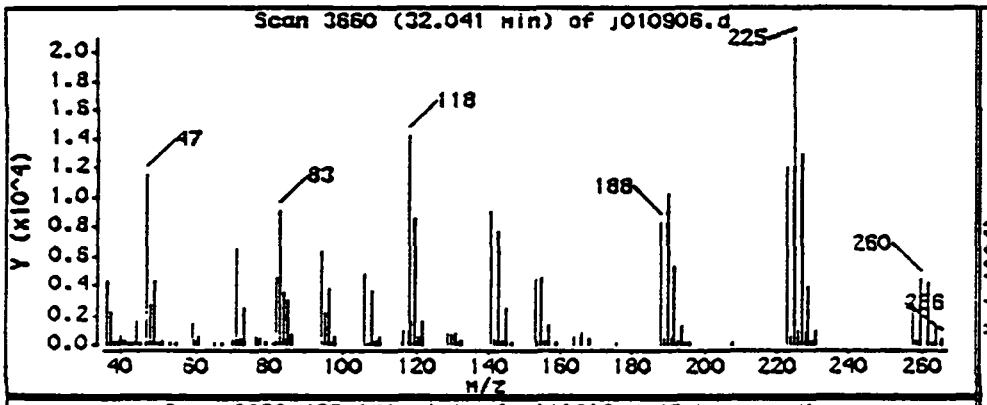
Sample Info: 25.0ml #298-25 100ppbv (5.0ppbv)

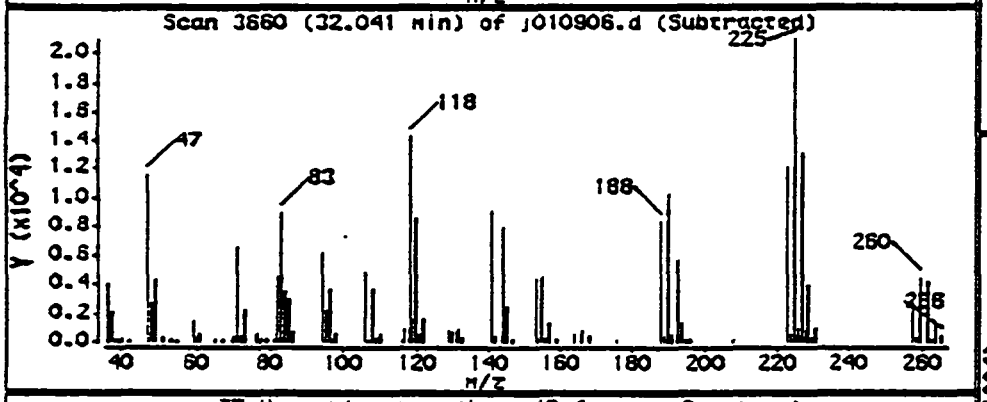
Operator: FA

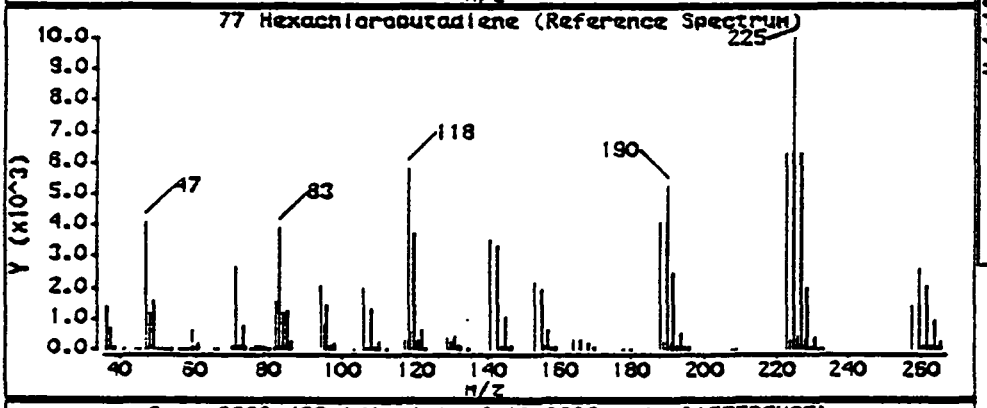
Column phase: RTx-624

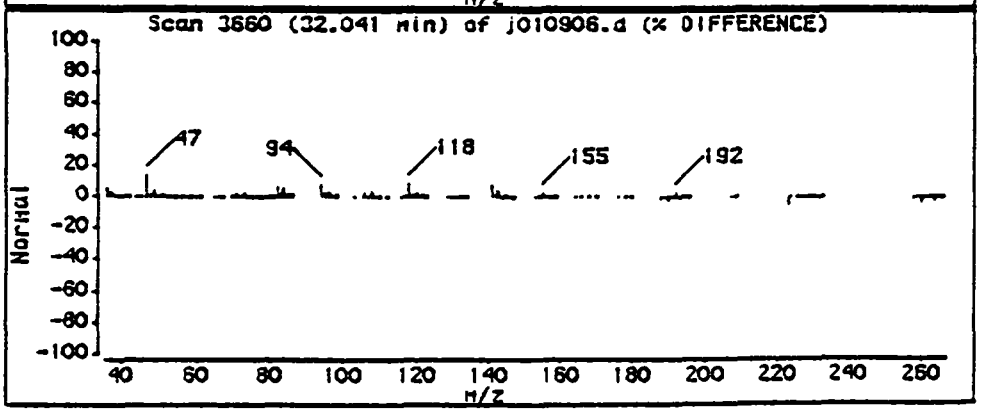
Column diameter: 0.58

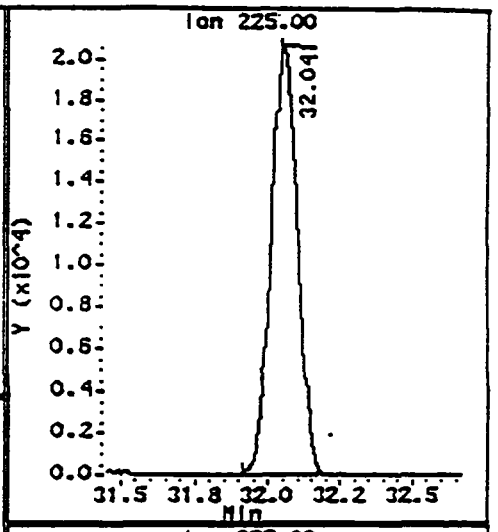
77 Hexachlorobutadiene

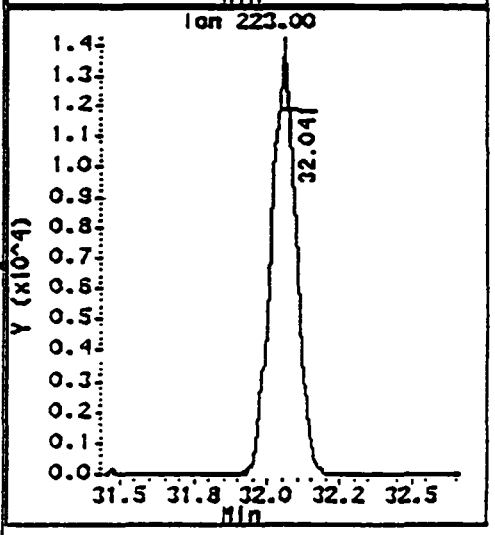












Data File: /chem/msdj.i/j-09jan.b/j010907.d
Report Date: 09-Jan-1997 14:23

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010907.d
Lab Smp Id: VSTD010 Client Smp ID: VSTD010
Inj Date : 09-JAN-1997 11:27
Operator : FA Inst ID: msdj.i
Smp Info : 50.0ml #296-25 100ppbv (10.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:23 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Calibration Sample, Level: 4
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
33 Bromochloromethane					CAS #: 74-97-5			
16.692	16.692 (1.000)	130	194531	5.0			100.00	9585(Q)
16.692	16.692 (0.000)	128	46640			28.83- 128.83	23.98	
16.692	16.692 (0.000)	49	105128			127.68- 227.68	54.04	
43 1,4-Difluorobenzene					CAS #: 540-36-3			
18.035	18.035 (1.000)	114	829384	5.0			100.00	9727
18.035	18.035 (0.000)	88	42960			0.00- 67.19	5.18	
59 Chlorobenzene-d5					CAS #: 3114-55-4			
22.177	22.177 (1.000)	117	656545	5.0			100.00	9779
22.177	22.177 (0.000)	82	97501			8.55- 108.55	14.85	
39 Octafluorotoluene					CAS #: 434-64-0			
17.211	17.211 (1.031)	217	432836	5.0	4.8		100.00	9817
17.211	17.211 (0.000)	186	88920			15.29- 115.29	20.54	
50 Toluene-d8					CAS #: 2037-26-5			
20.072	20.072 (1.113)	98	741386	5.0	4.9		100.00	9806
20.072	20.072 (0.000)	70	26760			0.00- 62.48	3.61	
20.072	20.072 (0.000)	100	141504			15.98- 115.98	19.09	

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 66 Bromofluorobenzene						CAS #: 460-00-4			
24.039	24.039	(1.084)	95	502078	5.0	4.9		100.00	9719
24.039	24.039	(0.000)	174	70424			8.48- 108.48	14.03	
24.039	24.039	(0.000)	176	69328			7.57- 107.57	13.81	
1 Propylene						CAS #: 115-07-1			
4.699	4.699	(0.281)	41	258056	10.0	7.9		100.00	7686(Q)
4.699	4.699	(0.000)	42	12169			14.10- 114.10	4.72	
4.699	4.699	(0.000)	39	13451			20.85- 120.85	5.21	
6 Dichlorodifluoromethane/FR 12						CAS #: 75-71-8			
5.256	5.256	(0.315)	85	1149323	10.0	9.5		100.00	0(M)
5.263	5.263	(0.315)	87	0			0.00- 50.00	0.00	
7 Freon 114						CAS #: 76-14-2			
7.003	7.003	(0.420)	135	856913	10.0	9.8		100.00	9810
7.003	7.003	(0.000)	137	24496			0.00- 80.98	2.86	
8 Chloromethane						CAS #: 74-87-3			
7.117	7.117	(0.426)	50	477700	10.0	9.4		100.00	9127(M)
7.117	7.117	(0.426)	52	12892			0.00- 79.23	2.70	
9 Vinyl Chloride						CAS #: 75-01-4			
8.231	8.231	(0.493)	62	526994	10.0	9.7		100.00	9634
8.231	8.231	(0.000)	64	17504			0.00- 80.10	3.32	
10 1,3-Butadiene						CAS #: 106-99-0			
8.582	8.582	(0.514)	54	398402	10.0	9.7		100.00	9690(Q)
8.582	8.582	(0.000)	39	66407			56.78- 156.78	16.67	
11 Bromomethane						CAS #: 74-83-9			
10.161	10.161	(0.609)	94	429983	10.0	9.6		100.00	9504(Q)
10.161	10.161	(0.000)	96	72432			45.14- 145.14	16.85	
12 Chloroethane						CAS #: 75-00-3			
10.741	10.741	(0.643)	64	306321	10.0	9.8		100.00	9641
10.741	10.741	(0.000)	66	19056			0.00- 82.76	6.22	
14 Trichlorofluoromethane/FR 11						CAS #: 75-69-4			
11.725	11.725	(0.702)	101	1211530	10.0	10.1		100.00	9872
11.725	11.725	(0.000)	103	171338			13.13- 113.13	14.14	
15 Ethanol						CAS #: 64-17-5			
12.740	12.740	(0.763)	45	209536	10.0	13.1		100.00	
12.740	12.740	(0.763)	46	86610			0.00- 91.33	41.33	
12.747	12.747	(0.764)	43	55261			0.00- 76.37	26.37	
17 1,1-Dichloroethene						CAS #: 75-35-4			
13.144	13.144	(0.787)	96	483721	10.0	11.6		100.00	9350(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.144	13.144 (0.000)	61	240960			125.93- 225.93	49.81	
13.144	13.144 (0.000)	98	87784			14.09- 114.09	18.15	
18 Freon 113					CAS #: 76-13-1			
13.236	13.236 (0.793)	151	654914	10.0	10.0		100.00	9310(Q)
13.236	13.236 (0.000)	153	100016			14.05- 114.05	15.27	
13.236	13.236 (0.000)	101	243927			106.20- 206.20	37.25	
19 Carbon Disulfide					CAS #: 75-15-0			
13.518	13.518 (0.810)	76	1480262	10.0	10.1		100.00	8114
20 Acetone					CAS #: 67-64-1			
13.381	13.381 (0.802)	43	918530	10.0	11.9		100.00	
13.381	13.381 (0.802)	58	271567			0.00- 79.57	29.57	
22 2-Propanol					CAS #: 67-63-0			
13.861	13.861 (0.830)	45	1005549	10.0	10.5		100.00	7544
13.861	13.861 (0.000)	43	52124			0.00- 69.13	5.18	
13.861	13.861 (0.000)	59	9763			0.00- 53.58	0.97	
25 Methylene Chloride					CAS #: 75-09-2			
14.243	14.243 (0.853)	84	447204	10.0	10.0		100.00	9680(Q)
14.243	14.243 (0.000)	49	199296			98.64- 198.64	44.56	
14.243	14.243 (0.000)	51	62830			0.00- 96.86	14.05	
26 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.731	14.731 (0.883)	96	495935	10.0	10		100.00	9554(Q)
14.731	14.731 (0.000)	61	242688			104.97- 204.97	48.94	
14.731	14.731 (0.000)	98	99576			13.58- 113.58	20.08	
26 MTBE					CAS #: 1634-04-4			
14.731	14.731 (0.883)	73	1319582	10.0	10.1		100.00	6461
14.731	14.731 (0.000)	57	88400			0.00- 74.03	6.70	
14.731	14.731 (0.000)	41	92845			0.00- 75.24	7.04	
27 Hexane					CAS #: 110-54-3			
15.158	15.158 (0.908)	57	911208	10.0	10.0		100.00	7287
15.158	15.158 (0.000)	43	197960			20.00- 120.00	21.73	
15.158	15.158 (0.000)	56	149251			2.77- 102.77	16.38	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.433	15.433 (0.925)	63	918113	10.0	10		100.00	9642
15.433	15.433 (0.000)	65	86120			0.00- 81.51	9.38	
29 Chloroprene					CAS #: 126-99-8			
15.570	15.570 (0.933)	53	317266	10.0	10.1		100.00	7811
15.570	15.570 (0.000)	88	48808			1.16- 101.16	15.38	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.570	15.570 (0.000)	50	24414			0.00- 75.59	7.70	
30 Vinyl Acetate					CAS #: 108-05-4			
15.502	15.502 (0.929)	43	1534361	10.0	10.4		100.00	5917
15.502	15.502 (0.000)	86	35081			0.00- 57.73	2.29	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.333	16.333 (0.979)	96	532049	10.0	10.1		100.00	9734(Q)
16.333	16.333 (0.000)	61	219520			87.25- 187.25	41.26	
16.333	16.333 (0.000)	98	99024			11.91- 111.91	18.61	
32 2-Butanone					CAS #: 78-93-3			
16.318	16.318 (0.978)	72	218074	10.0	10.2		100.00	7901(Q)
16.318	16.318 (0.000)	43	310225			447.09- 547.09	142.26	
16.318	16.318 (0.000)	57	21626			0.00- 84.65	9.92	
34 Chloroform					CAS #: 67-66-3			
16.776	16.776 (1.005)	83	977840	10.0	10.1		100.00	9186
16.776	16.776 (0.000)	85	192128			14.95- 114.95	19.65	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.760	16.760 (1.004)	42	520480	10.0	10.2		100.00	7505
16.760	16.760 (0.000)	71	52207			0.00- 86.02	10.03	
16.760	16.760 (0.000)	72	57134			0.00- 89.42	10.98	
36 1,1,1-Trichloroethane					CAS #: 71-55-6			
17.058	17.058 (1.022)	97	902963	10.0	10		100.00	9734
17.058	17.058 (0.000)	99	170240			17.27- 117.27	18.85	
37 Cyclohexane					CAS #: 110-82-7			
17.142	17.142 (1.027)	56	848215	10.0	10		100.00	8271(Q)
17.142	17.142 (0.000)	84	183295			24.74- 124.74	21.61	
17.142	17.142 (0.000)	41	148601			10.59- 110.59	17.52	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.310	17.310 (1.037)	119	734580	10.0	10.2		100.00	9451(Q)
17.310	17.310 (0.000)	117	166768			27.68- 127.68	22.70	
40 Benzene					CAS #: 71-43-2			
17.584	17.584 (0.975)	78	1568102	10.0	9.9		100.00	9737
17.584	17.584 (0.000)	77	112752			0.00- 74.19	7.19	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.600	17.600 (0.976)	62	618858	10.0	10		100.00	8448
17.600	17.600 (0.000)	64	57624			0.00- 82.18	9.31	
42 Heptane					CAS #: 142-82-5			
17.821	17.821 (0.988)	43	1084527	10.0	9.9		100.00	7674

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.821	17.821 (0.000)	57	168994			0.00- 98.18	15.58	
17.821	17.821 (0.000)	71	172928			0.00- 99.30	15.95	
44 Trichloroethene					CAS #: 79-01-6			
18.446	18.446 (1.023)	95	601904	10.0	9.9		100.00	7790(Q)
18.446	18.446 (0.000)	130	159808			38.73- 138.73	26.55	
18.446	18.446 (0.000)	97	114616			13.64- 113.64	19.04	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.752	18.752 (1.040)	63	549958	10.0	10.1		100.00	9737(Q)
18.752	18.752 (0.000)	62	120608			25.56- 125.56	21.93	
18.752	18.752 (0.000)	41	98518			11.72- 111.72	17.91	
46 1,4-Dioxane					CAS #: 123-91-1			
18.904	18.904 (1.048)	88	299209	10.0	10.1		100.00	9787(Q)
18.904	18.904 (0.000)	58	64336			25.46- 125.46	21.50	
18.904	18.904 (0.000)	57	21249			0.00- 74.92	7.10	
47 Bromodichloromethane					CAS #: 75-27-4			
19.110	19.110 (1.060)	83	965243	10.0	10.0		100.00	9572
19.110	19.110 (0.000)	85	170112			11.51- 111.51	17.62	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.682	19.682 (1.091)	75	393646	14.4	14.6		100.00	9657
19.682	19.682 (0.000)	77	35827			0.00- 81.77	9.10	
19.682	19.682 (0.000)	39	64781			7.45- 107.45	16.46	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.805	19.805 (1.098)	43	1205412	10.0	10.2		100.00	9604
19.805	19.805 (0.000)	58	124570			0.00- 84.95	10.33	
19.805	19.805 (0.000)	85	41828			0.00- 61.74	3.47	
51 Toluene					CAS #: 108-88-3			
20.171	20.171 (1.118)	92	940562	10.0	9.8		100.00	9732(Q)
20.171	20.171 (0.000)	91	465216			118.81- 218.81	49.46	
52 Octane					CAS #: 111-65-9			
20.148	20.148 (1.117)	57	429505	10.0	9.6		100.00	8414(Q)
20.148	20.148 (0.000)	85	140416			50.22- 150.22	32.69	
20.148	20.148 (0.000)	43	382805			223.22- 323.22	89.13	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.400	20.400 (0.920)	75	101902	2.0	1.8		100.00	9245
20.400	20.400 (0.000)	77	8316			0.00- 79.62	8.16	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.689	20.689 (0.933)	97	510323	10.0	10.0		100.00	9792(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.689	20.689 (0.000)	99	89288			12.79- 112.79	17.50	
20.689	20.689 (0.000)	83	126712			39.10- 139.10	24.83	
55 Tetrachloroethene					CAS #: 127-18-4			
20.956	20.956 (0.945)	166	565139	10.0	9.8		100.00	9457(Q)
20.956	20.956 (0.000)	129	132608			32.85- 132.85	23.46	
20.956	20.956 (0.000)	131	125792			28.59- 128.59	22.26	
56 2-Hexanone					CAS #: 591-78-6			
20.918	20.918 (0.943)	43	1250843	10.0	10.4		100.00	8563
20.918	20.918 (0.000)	58	181333			0.00- 98.87	14.50	
20.918	20.918 (0.000)	100	32360			0.00- 58.72	2.59	
57 Dibromochloromethane					CAS #: 124-48-1			
21.307	21.307 (0.961)	129	702778	10.0	10.1		100.00	8302
21.307	21.307 (0.000)	208	7833			0.00- 54.22	1.11	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.529	21.529 (0.971)	107	670643	10.0	10		100.00	9740(Q)
21.529	21.529 (0.000)	109	167872			46.40- 146.40	25.03	
60 Chlorobenzene					CAS #: 108-90-7			
22.215	22.215 (1.002)	112	1096315	10.0	9.8		100.00	9652
22.215	22.215 (0.000)	114	89592			0.00- 81.98	8.17	
22.215	22.215 (0.000)	77	170703			10.92- 110.92	15.57	
61 Ethyl Benzene					CAS #: 100-41-4			
22.299	22.299 (1.006)	106	670810	10.0	9.6		100.00	(H)
22.299	22.299 (1.006)	91	2322710			296.25- 396.25	346.25	
62 m,p-Xylene					CAS #: 108-38-3			
22.459	22.459 (1.013)	106	1286569	20.0	18.9		100.00	(H)
22.459	22.459 (1.013)	91	2765569			164.96- 264.96	214.96	
63 o-Xylene					CAS #: 95-47-6			
23.131	23.131 (1.043)	106	404830	10.0	9.6		100.00	9569(Q)
23.131	23.131 (0.000)	91	224221			166.39- 266.39	55.39	
64 Styrene					CAS #: 100-42-5			
23.138	23.138 (1.043)	104	872225	10.0	9.9		100.00	9757
23.138	23.138 (0.000)	78	104280			0.00- 98.09	11.96	
65 Bromoform					CAS #: 75-25-2			
23.558	23.558 (1.062)	171	338006	10.0	10.0		100.00	8405(Q)
23.558	23.558 (0.000)	173	150656			141.89- 241.89	44.57	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.176	24.176 (1.090)	83	1018077	10.0	9.8		100.00	9435

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.176	24.176 (0.000)	85	144384			11.12- 111.12	14.18	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.596	24.596 (1.109)	105	1387130	10.0	9.8		100.00	9331(M)
24.596	24.596 (1.109)	120	352672	10.0	9.7	0.00- 76.11	25.41	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.113)	105	671249	10.0	9.9		100.00	7955(M)
24.680	24.680 (1.113)	120	314188	10.0	10.0	0.00- 93.88	46.81	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.442	25.442 (1.147)	105	538762	10.0	9.8		100.00	8886
25.442	25.442 (0.000)	120	51321			0.00- 92.53	9.53	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.175	26.175 (1.180)	146	660635	10.0	9.5		100.00	
26.167	26.167 (1.180)	148	422142			13.90- 113.90	63.90	
26.167	26.167 (1.180)	111	308151			0.00- 96.64	46.64	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.350	26.350 (1.188)	146	655856	10.0	9.6		100.00	(H)
26.350	26.350 (1.188)	148	416047			13.44- 113.44	63.44	
26.343	26.343 (1.188)	111	292687			0.00- 96.63	44.63	
74 Benzyl Chloride					CAS #: 100-44-7			
26.595	26.595 (1.199)	91	1284507	10.0	9.8		100.00	9391
26.595	26.595 (0.000)	126	43440			0.00- 66.70	3.38	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.228	27.228 (1.228)	146	600206	10.0	9.6		100.00	9763
27.228	27.228 (0.000)	148	70847			11.02- 111.02	11.80	
27.228	27.228 (0.000)	111	55444			0.00- 97.75	9.24	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.607	31.607 (1.425)	180	223116	10.0	8.5		100.00	9749(Q)
31.607	31.607 (0.000)	182	33584			43.33- 143.33	15.05	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.049	32.049 (1.445)	225	251747	10.0	9.1		100.00	9575
32.049	32.049 (0.000)	223	25049			9.71- 109.71	9.95	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010907.d
Report Date: 09-Jan-1997 12:08

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010907.d
Lab Smp Id: VSTD010
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD010
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	194531	1.26
43 1,4-Difluorobenzene	832855	499713	1165997	829384	-0.42
59 Chlorobenzene-d5	625059	375035	875083	656545	5.04

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.69	0.00
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.03	0.00
59 Chlorobenzene-d5	22.16	21.66	22.66	22.18	0.07

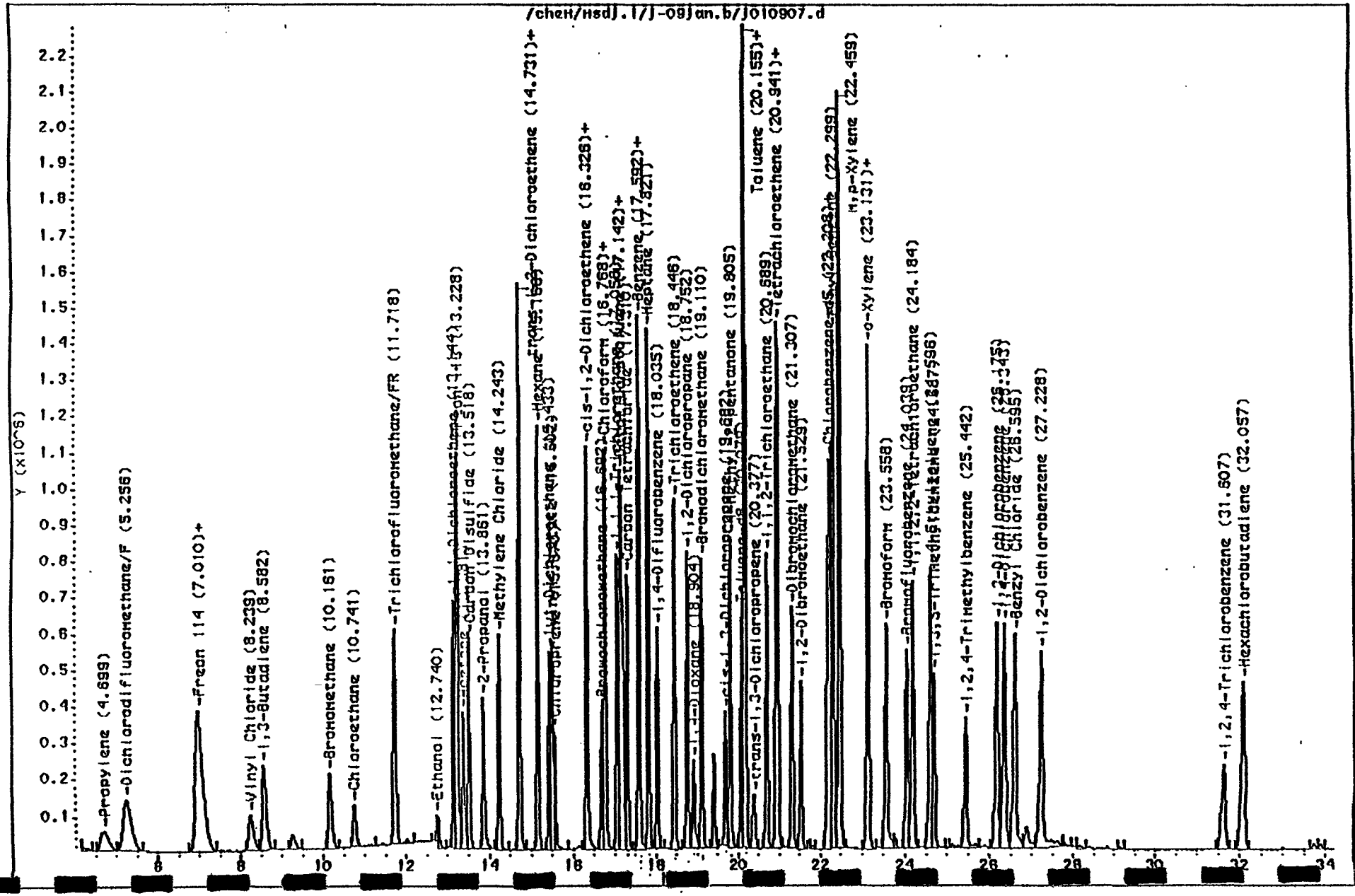
AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/hsdj.i/j-09jan.b/j010907.d
Date : 09-JAN-97 11:27
Client ID: VSTD010
Sample Info: 50.0ml #298-25 100ppbv (10.0ppbv)

Instrument: hsdj.i

Operator: FA
Column diameter: 0.58

Column phase: RTx-624



Data File: /chem/msdj.i/j-09jan.b/j010908.d
Report Date: 09-Jan-1997 14:18

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010908.d
Lab Smp Id: VSTD025 Client Smp ID: VSTD025
Inj Date : 09-JAN-1997 12:08
Operator : FA Inst ID: msdj.i
Smp Info : 125.0ml #296-25 100ppbv (25.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:18 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:08 Cal File: j010908.d
Als bottle: 1 Calibration Sample, Level: 5
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

					AMOUNTS				
					CAL-AMT	ON-COL			
	RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	SIMILARITY
*	33 Bromochloromethane					CAS #: 74-97-5			
	16.722	16.722 (1.000)	130	182238	5.0			100.00	9511(Q)
	16.722	16.722 (0.000)	128	38656			25.11- 125.11	21.21	
	16.722	16.722 (0.000)	49	96856			138.20- 238.20	53.15	
*	43 1,4-Difluorobenzene					CAS #: 540-36-3			
	18.050	18.050 (1.000)	114	762215	5.0			100.00	9760
	18.050	18.050 (0.000)	88	38576			0.00- 66.51	5.06	
*	59 Chlorobenzene-d5					CAS #: 3114-55-4			
	22.170	22.170 (1.000)	117	613020	5.0			100.00	9350
	22.170	22.170 (0.000)	82	91570			7.48- 107.48	14.94	
$	39 Octafluorotoluene					CAS #: 434-64-0			
	17.211	17.211 (1.029)	217	440297	5.0	5.2		100.00	8770
	17.211	17.211 (0.000)	186	88536			14.67- 114.67	20.11	
$	50 Toluene-d8					CAS #: 2037-26-5			
	20.079	20.079 (1.112)	98	704821	5.0	5.1		100.00	9726
	20.079	20.079 (0.000)	70	24609			0.00- 62.35	3.49	
	20.079	20.079 (0.000)	100	133263			16.89- 116.89	18.91	

ata File: /chem/msdj.i/j-09jan.b/j010908.d
eport Date: 09-Jan-1997 14:18

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
66 Bromofluorobenzene					CAS #: 460-00-4			
24.039	24.039 (1.084)	95	473245	5.0	5.0		100.00	9686
24.039	24.039 (0.000)	174	67544			10.59- 110.59	14.27	
24.039	24.039 (0.000)	176	63448			6.91- 106.91	13.41	
1 Propylene					CAS #: 115-07-1			
7.384	7.384 (0.442)	41	979263	25.0	32.1		100.00	6803(M)
7.392	7.392 (0.442)	42	643311			15.19- 115.19	65.69	
7.384	7.384 (0.442)	39	672872			18.12- 118.12	68.71	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
7.705	7.705 (0.461)	85	3130681	25.0	27.6		100.00	0(M)
7.705	7.705 (0.461)	87	1020297			0.00- 83.23	32.59	
7 Freon 114					CAS #: 76-14-2			
8.704	8.704 (0.520)	135	2125504	25.0	25.9		100.00	0(M)
8.712	8.712 (0.521)	137	672576			0.00- 81.78	31.64	
8 Chloromethane					CAS #: 74-87-3			
8.841	8.841 (0.529)	50	1324485	25.0	27.7		100.00	5718(M)
8.834	8.834 (0.528)	52	406010			0.00- 85.32	30.65	
9 Vinyl Chloride					CAS #: 75-01-4			
9.520	9.520 (0.569)	62	1329600	25.0	26.2		100.00	2401(M)
9.520	9.520 (0.569)	64	413288			0.00- 82.12	31.08	
10 1,3-Butadiene					CAS #: 106-99-0			
9.734	9.734 (0.582)	54	1038221	25.0	27.0		100.00	1680(M)
9.742	9.742 (0.583)	39	1084508			52.88- 152.88	104.46	
11 Bromomethane					CAS #: 74-83-9			
10.909	10.909 (0.652)	94	1050581	25.0	25.0		100.00	3462(M)
10.916	10.916 (0.653)	96	993010			43.56- 143.56	94.52	
12 Chloroethane					CAS #: 75-00-3			
11.336	11.336 (0.678)	64	699484	25.0	23.9		100.00	4574(M)
11.336	11.336 (0.678)	66	218115			0.00- 82.26	31.18	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
12.122	12.122 (0.725)	101	2847720	25.0	25.4		100.00	9906(Q)
12.122	12.122 (0.000)	103	361152			15.80- 115.80	12.68	
15 Ethanol					CAS #: 64-17-5			
12.870	12.870 (0.770)	45	282656	25.0	18.9		100.00	(H)
12.870	12.870 (0.770)	46	121233			0.00- 92.89	42.89	
12.877	12.877 (0.770)	43	66313			0.00- 73.46	23.46	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.365	13.365 (0.799)	96	774956	25.0	19.8		100.00	6280(QH)

RT	EXP RT	(REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)									
13.365	13.365	(0.000)	61	332314			119.48- 219.48	42.88	
13.365	13.365	(0.000)	98	126971			14.76- 114.76	16.38	
18 Freon 113						CAS #: 76-13-1			
13.396	13.396	(0.801)	151	1553260	25.0	25.4		100.00	9870(Q)
13.396	13.396	(0.000)	153	206912			15.75- 115.75	13.32	
13.396	13.396	(0.000)	101	383232			71.78- 171.78	24.67	
19 Carbon Disulfide						CAS #: 75-15-0			
13.762	13.762	(0.823)	76	3468988	25.0	25.2		100.00	8164
20 Acetone						CAS #: 67-64-1			
13.533	13.533	(0.809)	43	1161913	25.0	16.1		100.00	
13.533	13.533	(0.809)	58	315384			0.00- 77.14	27.14	
22 2-Propanol						CAS #: 67-63-0			
13.922	13.922	(0.833)	45	2456307	25.0	27.4		100.00	7496
13.922	13.922	(0.000)	43	109251			0.00- 67.90	4.45	
13.922	13.922	(0.000)	59	20920			0.00- 53.43	0.85	
23 Methylene Chloride						CAS #: 75-09-2			
14.350	14.350	(0.858)	84	1043363	25.0	25.0		100.00	9749(Q)
14.350	14.350	(0.000)	49	436416			96.55- 196.55	41.83	
14.350	14.350	(0.000)	51	135286			0.00- 95.43	12.97	
24 trans-1,2-Dichloroethene						CAS #: 156-60-5			
14.815	14.815	(0.886)	96	1193282	25.0	25.7		100.00	9628(Q)
14.815	14.815	(0.000)	61	553408			102.72- 202.72	46.38	
14.815	14.815	(0.000)	98	226752			12.58- 112.58	19.00	
26 MTBE						CAS #: 1634-04-4			
14.807	14.807	(0.885)	73	3132204	25.0	25.6		100.00	6432
14.807	14.807	(0.000)	57	191552			0.00- 74.41	6.12	
14.807	14.807	(0.000)	41	197973			0.00- 75.22	6.32	
27 Hexane						CAS #: 110-54-3			
15.227	15.227	(0.911)	57	2152232	25.0	25.3		100.00	7287
15.227	15.227	(0.000)	43	438993			19.09- 119.09	20.40	
15.227	15.227	(0.000)	56	328570			1.71- 101.71	15.27	
28 1,1-Dichloroethane						CAS #: 75-34-3			
15.494	15.494	(0.927)	63	2208134	25.0	25.6		100.00	9527
15.494	15.494	(0.000)	65	190976			0.00- 81.16	8.65	
29 Chloroprene						CAS #: 126-99-8			
15.631	15.631	(0.935)	53	762852	25.0	25.9		100.00	7611
15.631	15.631	(0.000)	88	115369			3.15- 103.15	15.12	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.631	15.631 (0.000)	50	52633			0.00- 74.25	6.90	
30 Vinyl Acetate					CAS #: 108-05-4			
15.547	15.547 (0.930)	43	3750938	25.0	27.0		100.00	5957
15.547	15.547 (0.000)	86	89940			0.00- 58.06	2.40	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.371	16.371 (0.979)	96	1261689	25.0	25.6		100.00	9754(Q)
16.371	16.371 (0.000)	61	518336			90.65- 190.65	41.08	
16.371	16.371 (0.000)	98	235328			13.86- 113.86	18.65	
32 2-Butanone					CAS #: 78-93-3			
16.356	16.356 (0.978)	72	534047	25.0	26.6		100.00	7913(Q)
16.356	16.356 (0.000)	43	754119			449.07- 549.07	141.21	
16.356	16.356 (0.000)	57	48451			0.00- 82.06	9.07	
36 Chloroform					CAS #: 67-66-3			
16.806	16.806 (1.005)	83	2309788	25.0	25.5		100.00	9660
16.806	16.806 (0.000)	85	439808			14.36- 114.36	19.04	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.799	16.799 (1.005)	42	1228018	25.0	25.7		100.00	7501
16.799	16.799 (0.000)	71	119344			0.00- 84.41	9.72	
16.799	16.799 (0.000)	72	132486			0.00- 88.20	10.79	
36 1,1,1-Trichloroethane					CAS #: 71-55-6			
17.096	17.096 (1.022)	97	2150766	25.0	25.3		100.00	9710
17.096	17.096 (0.000)	99	388032			14.13- 114.13	18.04	
37 Cyclohexane					CAS #: 110-82-7			
17.180	17.180 (1.027)	56	1990630	25.0	25.0		100.00	8278(Q)
17.180	17.180 (0.000)	84	413685			25.14- 125.14	20.78	
17.180	17.180 (0.000)	41	332918			10.47- 110.47	16.72	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.340	17.340 (1.037)	119	1771700	25.0	26.4		100.00	9489(Q)
17.340	17.340 (0.000)	117	476560			44.11- 144.11	26.90	
40 Benzene					CAS #: 71-43-2			
17.615	17.615 (0.976)	78	3717472	25.0	25.5		100.00	9809
17.615	17.615 (0.000)	77	262289			0.00- 74.19	7.06	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.615	17.615 (0.976)	62	1462842	25.0	25.7		100.00	8249
17.615	17.615 (0.000)	64	133824			0.00- 80.95	9.15	
42 Heptane					CAS #: 142-82-5			
17.829	17.829 (0.988)	43	2642976	25.0	26.3		100.00	7668

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.829	17.829 (0.000)	57	406516			0.00- 98.90	15.38	
17.829	17.829 (0.000)	71	409385			0.00- 99.25	15.49	
44 Trichloroethene					CAS #: 79-01-6			
18.454	18.454 (1.022)	95	1428786	25.0	25.7		100.00	7783(Q)
18.454	18.454 (0.000)	130	371712			37.30- 137.30	26.02	
18.454	18.454 (0.000)	97	277696			15.22- 115.22	19.44	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.767	18.767 (1.040)	63	1297182	25.0	25.8		100.00	9698(Q)
18.767	18.767 (0.000)	62	277955			23.89- 123.89	21.43	
18.767	18.767 (0.000)	41	223954			9.53- 109.53	17.26	
46 1,4-Dioxane					CAS #: 123-91-1			
18.958	18.958 (1.050)	88	726209	25.0	26.7		100.00	9775(Q)
18.958	18.958 (0.000)	58	107237			25.68- 125.68	14.77	
18.958	18.958 (0.000)	57	37210			0.00- 76.26	5.12	
47 Bromodichloromethane					CAS #: 75-27-4			
19.110	19.110 (1.059)	83	2329137	25.0	26.4		100.00	9579
19.110	19.110 (0.000)	85	421696			13.23- 113.23	18.11	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.690	19.690 (1.091)	75	943827	36.0	38.1		100.00	9669
19.690	19.690 (0.000)	77	84747			0.00- 81.01	8.98	
19.690	19.690 (0.000)	39	157389			7.59- 107.59	16.68	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.805	19.805 (1.097)	43	2839593	25.0	26.1		100.00	9632
19.805	19.805 (0.000)	58	286454			0.00- 85.65	10.09	
19.805	19.805 (0.000)	85	102076			0.00- 62.70	3.59	
51 Toluene					CAS #: 108-88-3			
20.171	20.171 (1.117)	92	2296632	25.0	26.1		100.00	9697(Q)
20.171	20.171 (0.000)	91	1154437			120.64- 220.64	50.27	
52 Octane					CAS #: 111-65-9			
20.155	20.155 (1.117)	57	1098040	25.0	26.6		100.00	8353(Q)
20.155	20.155 (0.000)	85	375675			55.20- 155.20	34.21	
20.155	20.155 (0.000)	43	989788			227.17- 327.17	90.14	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.407	20.407 (0.920)	75	243825	5.0	4.6		100.00	8412
20.407	20.407 (0.000)	77	19653			0.00- 79.54	8.06	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.697	20.697 (0.934)	97	1223037	25.0	25.7		100.00	9801(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
0.697	20.697 (0.000)	99	206400			10.30- 110.30	16.88	
0.697	20.697 (0.000)	83	297349			36.88- 136.88	24.31	
55 Tetrachloroethene					CAS #: 127-18-4			
0.964	20.964 (0.946)	166	1382892	25.0	25.8		100.00	8935(Q)
0.964	20.964 (0.000)	129	316928			29.90- 129.90	22.92	
20.964	20.964 (0.000)	131	303296			26.46- 126.46	21.93	
56 2-Hexanone					CAS #: 591-78-6			
0.918	20.918 (0.944)	43	3040070	25.0	27.0		100.00	8575
20.918	20.918 (0.000)	58	429257			0.01- 100.01	14.12	
20.918	20.918 (0.000)	100	78992			0.00- 59.20	2.60	
57 Dibromochloromethane					CAS #: 124-48-1			
21.307	21.307 (0.961)	129	1723049	25.0	26.5		100.00	8310
1.307	21.307 (0.000)	208	19648			0.00- 54.28	1.14	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.529	21.529 (0.971)	107	1622479	25.0	25.8		100.00	9737(Q)
1.529	21.529 (0.000)	109	401024			45.05- 145.05	24.72	
60 Chlorobenzene					CAS #: 108-90-7			
22.223	22.223 (1.002)	112	2736877	25.0	26.1		100.00	9788
2.223	22.223 (0.000)	114	221504			0.00- 81.34	8.09	
2.223	22.223 (0.000)	77	439739			12.21- 112.21	16.07	
61 Ethyl Benzene					CAS #: 100-41-4			
2.299	22.299 (1.006)	106	1763511	25.0	27.0		100.00	(H)
2.299	22.299 (1.006)	91	6057297			293.48- 393.48	343.48	
62 m,p-Xylene					CAS #: 108-38-3			
2.467	22.467 (1.013)	106	3453692	50.0	54.4		100.00	(MH)
2.459	22.459 (1.013)	91	7216317			158.95- 258.95	208.95	
63 o-Xylene					CAS #: 95-47-6			
3.131	23.131 (1.043)	106	1076261	25.0	27.4		100.00	9610(Q)
23.131	23.131 (0.000)	91	618139			174.86- 274.86	57.43	
64 Styrene					CAS #: 100-42-5			
3.138	23.138 (1.044)	104	2322016	25.0	28.2		100.00	9828
23.138	23.138 (0.000)	78	285175			0.00- 98.00	12.28	
65 Bromoform					CAS #: 75-25-2			
3.558	23.558 (1.063)	171	854930	25.0	27.2		100.00	8454(Q)
23.558	23.558 (0.000)	173	382848			138.77- 238.77	44.78	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
4.184	24.184 (1.091)	83	2442920	25.0	25.3		100.00	9714

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.184	24.184 (0.000)	85	353404			12.67- 112.67	14.47	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.603	24.603 (1.110)	105	3749039	25.0	28.4		100.00	9351(M)
24.603	24.603 (1.110)	120	987376	25.0	29.1	0.00- 76.55	26.34	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.114)	105	1860375	25.0	29.4		100.00	8123(QM)
24.687	24.687 (1.114)	120	799446	25.0	27.4	245.81- 345.81	42.97	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.450	25.450 (1.148)	105	1477726	25.0	28.7		100.00	8854
25.450	25.450 (0.000)	120	138301			0.00- 91.34	9.36	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.175	26.175 (1.181)	146	1828402	25.0	28.1		100.00	
26.175	26.175 (1.181)	148	1157841			13.33- 113.33	63.33	
26.175	26.175 (1.181)	111	830611			0.00- 95.43	45.43	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.350	26.350 (1.189)	146	1777182	25.0	28.0		100.00	(M)
26.350	26.350 (1.189)	148	1127631			13.45- 113.45	63.45	
26.350	26.350 (1.189)	111	787076			0.00- 94.29	44.29	
74 Benzyl Chloride					CAS #: 100-44-7			
26.595	26.595 (1.200)	91	3622570	25.0	29.6		100.00	9300
26.595	26.595 (0.000)	126	129472			0.00- 67.72	3.57	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.228	27.228 (1.228)	146	1631883	25.0	28.0		100.00	9767(Q)
27.228	27.228 (0.000)	148	200896			14.57- 114.57	12.31	
27.228	27.228 (0.000)	111	149669			0.00- 98.10	9.17	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.615	31.615 (1.426)	180	723811	25.0	29.4		100.00	9759(Q)
31.615	31.615 (0.000)	182	108864			44.99- 144.99	15.04	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.057	32.057 (1.446)	225	714173	25.0	27.5		100.00	9693(Q)
32.057	32.057 (0.000)	223	71027			11.50- 111.50	9.95	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010908.d
Report Date: 09-Jan-1997 12:42

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010908.d
Lab Smp Id: VSTD025
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD025
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	182238	-5.14
43 1,4-Difluorobenzene	832855	499713	1165997	762215	-8.48
59 Chlorobenzene-d5	625059	375035	875083	613020	-1.93

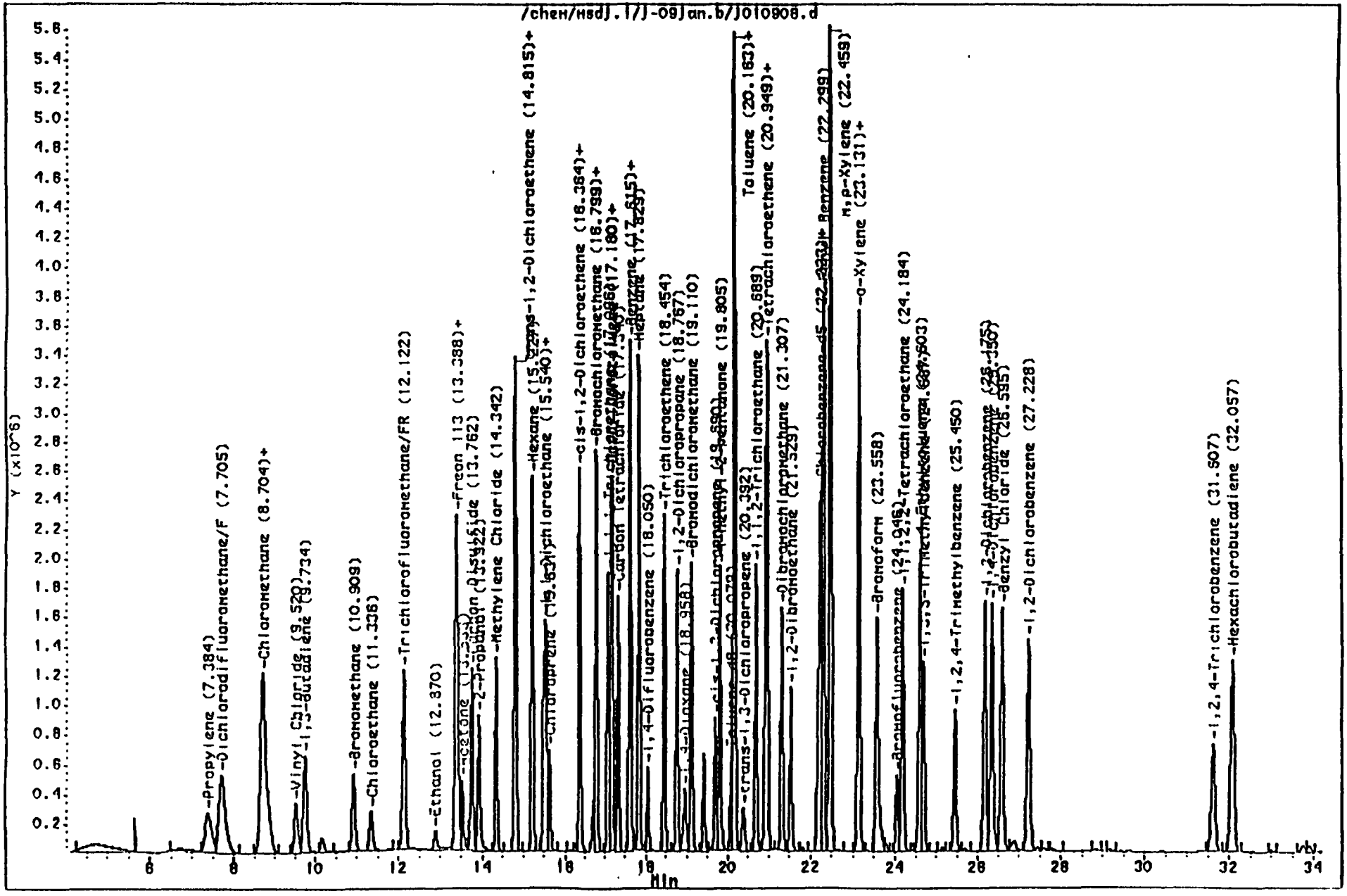
COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.72	0.19
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.05	0.09
59 Chlorobenzene-d5	22.16	21.66	22.66	22.17	0.04

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/hsdj.l/j-09jan.b/j010908.d
Date : 09-JAN-97 12:08
Client ID: VSTD025
Sample Info: 1250.0ml #298-25 100ppbv (25.0ppbv)

Instrument: hsdj.l
Operator: FR
Column diameter: 0.58

Column phase: RTx-624



Data File: /chem/msdj.i/j-09jan.b/j010909.d
Report Date: 09-Jan-1997 14:21

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-09jan.b/j010909.d
Lab Smp Id: VSTD050 Client Smp ID: VSTD050
Inj Date : 09-JAN-1997 12:48
Operator : FA Inst ID: msdj.i
Smp Info : 250.0ml #296-25 100ppbv (50.0ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/to140109.m
Meth Date : 09-Jan-1997 14:19 fayala Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Calibration Sample, Level: 6
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 33 Bromochloromethane					CAS #: 74-97-5			
16.730	16.730 (1.000)	130	178952	5.0			100.00	9569(Q)
16.730	16.730 (0.000)	128	40760			28.96- 128.96	22.78	
16.730	16.730 (0.000)	49	94160			132.40- 232.40	52.62	
* 43 1,4-Difluorobenzene					CAS #: 540-36-3			
18.050	18.050 (1.000)	114	733906	5.0			100.00	9778
18.050	18.050 (0.000)	88	39048			0.00- 67.60	5.32	
* 59 Chlorobenzene-d5					CAS #: 3114-55-4			
22.177	22.177 (1.000)	117	614884	5.0			100.00	7200
22.177	22.177 (0.000)	82	94596			11.03- 111.03	15.38	
$ 39 Octafluorotoluene					CAS #: 434-64-0			
17.211	17.211 (1.029)	217	452389	5.0	5.4		100.00	7856
17.211	17.211 (0.000)	186	90416			15.56- 115.56	19.99	
$ 50 Toluene-d8					CAS #: 2037-26-5			
20.079	20.079 (1.112)	98	680769	5.0	5.1		100.00	9856
20.079	20.079 (0.000)	70	21580			0.00- 61.21	3.17	
20.079	20.079 (0.000)	100	125027			14.97- 114.97	18.37	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 66 Bromofluorobenzene					CAS #: 460-00-4			
24.047	24.047 (1.084)	95	465684	5.0	4.9		100.00	9785
24.047	24.047 (0.000)	174	69062			14.31- 114.31	14.83	
24.047	24.047 (0.000)	176	65832			11.30- 111.30	14.14	
1 Propylene					CAS #: 115-07-1			
7.667	7.667 (0.458)	41	1736727	50.0	57.9		100.00	7686(AQ)
7.667	7.667 (0.000)	42	110114			14.09- 114.09	6.34	
7.667	7.667 (0.000)	39	117041			18.12- 118.12	6.74	
6 Dichlorodifluoromethane/FR 12					CAS #: 75-71-8			
7.949	7.949 (0.475)	85	5790517	50.0	51.9		100.00	9503
7.949	7.949 (0.000)	87	189952			0.00- 82.25	3.28	
7 Freon 114					CAS #: 76-14-2			
8.849	8.849 (0.529)	135	4061565	50.0	50.4		100.00	9792
8.849	8.849 (0.000)	137	150016			0.00- 81.00	3.69	
8 Chloromethane					CAS #: 74-87-3			
8.994	8.994 (0.538)	50	2442063	50.0	52.0		100.00	9655
8.994	8.994 (0.000)	52	97187			0.00- 89.97	3.98	
9 Vinyl Chloride					CAS #: 75-01-4			
9.635	9.635 (0.576)	62	2491144	50.0	50.1		100.00	9647
9.635	9.635 (0.000)	64	127312			0.00- 82.04	5.11	
10 1,3-Butadiene					CAS #: 106-99-0			
9.849	9.849 (0.589)	54	1905093	50.0	50.4		100.00	9736(Q)
9.849	9.849 (0.000)	39	329019			50.51- 150.51	17.27	
11 Bromomethane					CAS #: 74-83-9			
10.985	10.985 (0.657)	94	2223659	50.0	53.8		100.00	9576(Q)
10.985	10.985 (0.000)	96	403904			44.51- 144.51	18.16	
12 Chloroethane					CAS #: 75-00-3			
11.382	11.382 (0.680)	64	1345581	50.0	46.9		100.00	9675
11.382	11.382 (0.000)	66	81693			0.00- 81.19	6.07	
14 Trichlorofluoromethane/FR 11					CAS #: 75-69-4			
12.168	12.168 (0.727)	101	5505499	50.0	50.0		100.00	9888(Q)
12.168	12.168 (0.000)	103	710783			15.55- 115.55	12.91	
15 Ethanol					CAS #: 64-17-5			
12.885	12.885 (0.770)	45	581024	50.0	39.6		100.00	
12.893	12.893 (0.771)	46	231436			0.00- 89.83	39.83	
12.893	12.893 (0.771)	43	137187			0.00- 73.61	23.61	
17 1,1-Dichloroethene					CAS #: 75-35-4			
13.389	13.389 (0.800)	96	1485052	50.0	38.7		100.00	6330(Q)

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
17 1,1-Dichloroethene (continued)								
13.389	13.389 (0.000)	61	641768			119.93- 219.93	43.22	
13.389	13.389 (0.000)	98	247808			15.62- 115.62	16.69	
18 Freon 113					CAS #: 76-13-1			
13.427	13.427 (0.803)	151	2992908	50.0	50.0		100.00	9883(Q)
13.427	13.427 (0.000)	153	411904			16.40- 116.40	13.76	
13.427	13.427 (0.000)	101	742603			69.71- 169.71	24.81	
19 Carbon Disulfide					CAS #: 75-15-0			
13.793	13.793 (0.824)	76	6732230	50.0	49.8		100.00	8154
20 Acetone					CAS #: 67-64-1			
13.556	13.556 (0.810)	43	3232939	50.0	45.6		100.00	
13.556	13.556 (0.810)	58	1019775			0.00- 81.54	31.54	
22 2-Propanol					CAS #: 67-63-0			
13.938	13.938 (0.833)	45	4749237	50.0	53.9		100.00	7370
13.938	13.938 (0.000)	43	217285			0.00- 67.16	4.58	
13.938	13.938 (0.000)	59	44712			0.00- 53.53	0.94	
23 Methylene Chloride					CAS #: 75-09-2			
14.365	14.365 (0.859)	84	1998488	50.0	48.7		100.00	9744(Q)
14.365	14.365 (0.000)	49	855744			98.40- 198.40	42.82	
14.365	14.365 (0.000)	51	264727			0.00- 95.91	13.25	
24 trans-1,2-Dichloroethene					CAS #: 156-60-5			
14.830	14.830 (0.886)	96	2330112	50.0	51.0		100.00	9592(Q)
14.830	14.830 (0.000)	61	1110016			102.43- 202.43	47.64	
14.830	14.830 (0.000)	98	457792			12.87- 112.87	19.65	
26 MTBE					CAS #: 1634-04-4			
14.823	14.823 (0.886)	73	6159874	50.0	51.3		100.00	6400
14.823	14.823 (0.000)	57	382656			0.00- 74.33	6.21	
14.823	14.823 (0.000)	41	374920			0.00- 73.83	6.09	
27 Hexane					CAS #: 110-54-3			
15.235	15.235 (0.911)	57	4170251	50.0	50.0		100.00	7287
15.235	15.235 (0.000)	43	870435			19.23- 119.23	20.87	
15.235	15.235 (0.000)	56	660100			2.50- 102.50	15.83	
28 1,1-Dichloroethane					CAS #: 75-34-3			
15.509	15.509 (0.927)	63	4190073	50.0	49.5		100.00	9043
15.509	15.509 (0.000)	65	378866			0.00- 81.56	9.04	
29 Chloroprene					CAS #: 126-99-8			
15.639	15.639 (0.935)	53	1472418	50.0	50.9		100.00	7667
15.639	15.639 (0.000)	88	221581			1.47- 101.47	15.05	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
29 Chloroprene (continued)								
15.639	15.639 (0.000)	50	108321			0.00- 75.16	7.36	
30 Vinyl Acetate					CAS #: 108-05-4			
15.555	15.555 (0.930)	43	7473687	50.0	54.8		100.00	5928
15.555	15.555 (0.000)	86	182242			0.00- 57.92	2.44	
31 cis-1,2-Dichloroethene					CAS #: 156-59-2			
16.372	16.372 (0.979)	96	2477142	50.0	51.2		100.00	9681(Q)
16.372	16.372 (0.000)	61	1024192			87.23- 187.23	41.35	
16.372	16.372 (0.000)	98	458368			11.42- 111.42	18.50	
32 2-Butanone					CAS #: 78-93-3			
16.356	16.356 (0.978)	72	1055539	50.0	53.4		100.00	7908(Q)
16.356	16.356 (0.000)	43	1511495			429.93- 529.93	143.20	
16.356	16.356 (0.000)	57	102023			0.00- 82.39	9.67	
34 Chloroform					CAS #: 67-66-3			
16.806	16.806 (1.005)	83	4500190	50.0	50.5		100.00	9616
16.806	16.806 (0.000)	85	875200			14.83- 114.83	19.45	
35 Tetrahydrofuran					CAS #: 109-99-9			
16.799	16.799 (1.004)	42	2405545	50.0	51.3		100.00	7504
16.799	16.799 (0.000)	71	241958			0.00- 85.98	10.06	
16.799	16.799 (0.000)	72	261748			0.00- 88.92	10.88	
36 1,1,1-Trichloroethane					CAS #: 71-55-6			
17.096	17.096 (1.022)	97	4196466	50.0	50.3		100.00	9686
17.096	17.096 (0.000)	99	756288			13.21- 113.21	18.02	
37 Cyclohexane					CAS #: 110-82-7			
17.180	17.180 (1.027)	56	3841835	50.0	49.2		100.00	8272(Q)
17.180	17.180 (0.000)	84	788710			23.18- 123.18	20.53	
17.180	17.180 (0.000)	41	641134			9.49- 109.49	16.69	
38 Carbon Tetrachloride					CAS #: 56-23-5			
17.340	17.340 (1.036)	119	3578246	50.0	54.2		100.00	9392(Q)
17.340	17.340 (0.000)	117	1033272			50.73- 150.73	28.88	
40 Benzene					CAS #: 71-43-2			
17.615	17.615 (0.976)	78	7324878	50.0	52.1		100.00	9839
17.615	17.615 (0.000)	77	516399			0.00- 73.77	7.05	
41 1,2-Dichloroethane					CAS #: 107-06-2			
17.615	17.615 (0.976)	62	2868937	50.0	52.3		100.00	8224
17.615	17.615 (0.000)	64	271484			0.00- 82.15	9.46	
42 Heptane					CAS #: 142-82-5			
17.829	17.829 (0.988)	43	5134373	50.0	53.0		100.00	7655

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
42 Heptane (continued)								
17.829	17.829 (0.000)	57	801284			0.00- 98.73	15.61	
17.829	17.829 (0.000)	71	817856			0.00- 99.74	15.93	
44 Trichloroethene					CAS #: 79-01-6			
18.454	18.454 (1.022)	95	2840362	50.0	53.0		100.00	7785(Q)
18.454	18.454 (0.000)	130	741440			37.45- 137.45	26.10	
18.454	18.454 (0.000)	97	547904			14.62- 114.62	19.29	
45 1,2-Dichloropropane					CAS #: 78-87-5			
18.767	18.767 (1.040)	63	2517696	50.0	52.0		100.00	9708(Q)
18.767	18.767 (0.000)	62	548396			25.27- 125.27	21.78	
18.767	18.767 (0.000)	41	449275			11.67- 111.67	17.84	
46 1,4-Dioxane					CAS #: 123-91-1			
18.920	18.920 (1.048)	88	1461387	50.0	55.8		100.00	9858(AQ)
18.920	18.920 (0.000)	58	223968			24.84- 124.84	15.33	
18.920	18.920 (0.000)	57	71566			0.00- 73.91	4.90	
47 Bromodichloromethane					CAS #: 75-27-4			
19.110	19.110 (1.059)	83	4565385	50.0	53.7		100.00	9566
19.110	19.110 (0.000)	85	824145			12.86- 112.86	18.05	
48 cis-1,3-Dichloropropene					CAS #: 542-75-6			
19.690	19.690 (1.091)	75	1859281	72.0	77.9		100.00	9626(A)
19.690	19.690 (0.000)	77	173332			0.00- 81.81	9.32	
19.690	19.690 (0.000)	39	311599			7.19- 107.19	16.76	
49 4-Methyl-2-pentanone					CAS #: 108-10-1			
19.812	19.812 (1.098)	43	5506136	50.0	52.6		100.00	9510
19.812	19.812 (0.000)	58	587107			0.00- 86.07	10.66	
19.812	19.812 (0.000)	85	201239			0.00- 62.36	3.65	
51 Toluene					CAS #: 108-88-3			
20.179	20.179 (1.118)	92	4680118	50.0	55.3		100.00	9841(AQ)
20.179	20.179 (0.000)	91	2598449			119.81- 219.81	51.25	
52 Octane					CAS #: 111-65-9			
20.156	20.156 (1.117)	57	2293983	50.0	57.7		100.00	8394(AQ)
20.156	20.156 (0.000)	85	799539			55.06- 155.06	34.85	
20.156	20.156 (0.000)	43	2093293			225.06- 325.06	91.25	
53 trans-1,3-Dichloropropene					CAS #: 542-75-6			
20.407	20.407 (0.920)	75	470830	10.0	8.9		100.00	8420
20.407	20.407 (0.000)	77	40884			0.00- 81.39	8.68	
54 1,1,2-Trichloroethane					CAS #: 79-00-5			
20.697	20.697 (0.933)	97	2393999	50.0	50.1		100.00	9777(Q)

Data File: /chem/msdj.i/j-09jan.b/j010909.d
Report Date: 09-Jan-1997 14:21

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
54 1,1,2-Trichloroethane (continued)								
20.697	20.697 (0.000)	99	427328			12.62- 112.62	17.85	
20.697	20.697 (0.000)	83	593421			36.96- 136.96	24.79	
55 Tetrachloroethene					CAS #: 127-18-4			
20.964	20.964 (0.945)	166	2898508	50.0	53.8		100.00	9113(Q)
20.964	20.964 (0.000)	129	676928			27.81- 127.81	23.35	
20.964	20.964 (0.000)	131	653304			25.09- 125.09	22.54	
56 2-Hexanone					CAS #: 591-78-6			
20.926	20.926 (0.944)	43	6043587	50.0	53.5		100.00	8587
20.926	20.926 (0.000)	58	905243			0.23- 100.23	14.98	
20.926	20.926 (0.000)	100	165777			0.00- 59.20	2.74	
57 Dibromochloromethane					CAS #: 124-48-1			
21.315	21.315 (0.961)	129	3471869	50.0	53.2		100.00	8383
21.315	21.315 (0.000)	208	42200			0.00- 54.50	1.22	
58 1,2-Dibromoethane					CAS #: 106-93-4			
21.537	21.537 (0.971)	107	3220692	50.0	51.1		100.00	9715(Q)
21.537	21.537 (0.000)	109	811328			44.77- 144.77	25.19	
60 Chlorobenzene					CAS #: 108-90-7			
22.223	22.223 (1.002)	112	5538471	50.0	52.7		100.00	9732
22.223	22.223 (0.000)	114	454016			0.00- 81.49	8.20	
22.223	22.223 (0.000)	77	894267			12.02- 112.02	16.15	
61 Ethyl Benzene					CAS #: 100-41-4			
22.307	22.307 (1.006)	106	3615296	50.0	55.3		100.00	(AH)
22.307	22.307 (1.006)	91	12466061			294.81- 394.81	344.81	
62 m,p-Xylene					CAS #: 108-38-3			
22.467	22.467 (1.013)	106	7426675	100	117		100.00	(AMH)
22.467	22.467 (1.013)	91	15592489			159.95- 259.95	209.95	
63 o-Xylene					CAS #: 95-47-6			
23.131	23.131 (1.043)	106	2164951	50.0	55.0		100.00	9648(Q)
23.131	23.131 (0.000)	91	1273533			172.76- 272.76	58.83	
64 Styrene					CAS #: 100-42-5			
23.139	23.139 (1.043)	104	4732013	50.0	57.3		100.00	9848(A)
23.139	23.139 (0.000)	78	611411			0.00- 99.15	12.92	
65 Bromoform					CAS #: 75-25-2			
23.566	23.566 (1.063)	171	1780432	50.0	56.5		100.00	8671(AQ)
23.566	23.566 (0.000)	173	834752			140.99- 240.99	46.88	
67 1,1,2,2-Tetrachloroethane					CAS #: 79-34-5			
24.184	24.184 (1.090)	83	4761453	50.0	49.1		100.00	9854

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
67 1,1,2,2-Tetrachloroethane (continued)								
24.184	24.184 (0.000)	85	711269			14.86- 114.86	14.94	
68 4-Ethyltoluene					CAS #: 622-96-8			
24.603	24.603 (1.109)	105	7219379	50.0	54.5		100.00	9317(M)
24.603	24.603 (1.109)	120	1852134	50.0	54.4	0.00- 75.68	25.66	
69 1,3,5-Trimethylbenzene					CAS #: 108-67-8			
24.687	24.687 (1.113)	105	3468244	50.0	54.6		100.00	8878(QM)
24.687	24.687 (1.113)	120	1601173	50.0	54.7	151.38- 251.38	46.17	
71 1,2,4-Trimethylbenzene					CAS #: 95-63-6			
25.450	25.450 (1.148)	105	2848745	50.0	55.2		100.00	8855(A)
25.450	25.450 (0.000)	120	273320			0.00- 91.92	9.59	
72 1,3-Dichlorobenzene					CAS #: 541-73-1			
26.183	26.183 (1.181)	146	3646376	50.0	55.8		100.00	(A)
26.183	26.183 (1.181)	148	2319944			13.62- 113.62	63.62	
26.183	26.183 (1.181)	111	1641694			0.00- 95.02	45.02	
73 1,4-Dichlorobenzene					CAS #: 106-46-7			
26.358	26.358 (1.189)	146	3547527	50.0	55.7		100.00	(A)
26.358	26.358 (1.189)	148	2261358			13.74- 113.74	63.74	
26.358	26.358 (1.189)	111	1541648			0.00- 93.46	43.46	
74 Benzyl Chloride					CAS #: 100-44-7			
26.602	26.602 (1.200)	91	7064075	50.0	57.5		100.00	9318(A)
26.602	26.602 (0.000)	126	248896			0.00- 67.08	3.52	
75 1,2-Dichlorobenzene					CAS #: 95-50-1			
27.236	27.236 (1.228)	146	3170440	50.0	54.3		100.00	9825(Q)
27.236	27.236 (0.000)	148	396619			13.87- 113.87	12.51	
27.236	27.236 (0.000)	111	287881			0.00- 96.36	9.08	
76 1,2,4-Trichlorobenzene					CAS #: 120-82-1			
31.622	31.622 (1.426)	180	1509428	50.0	61.1		100.00	9804(AQ)
31.622	31.622 (0.000)	182	225280			43.82- 143.82	14.92	
77 Hexachlorobutadiene					CAS #: 87-68-3			
32.065	32.065 (1.446)	225	1426605	50.0	54.8		100.00	9721(Q)
32.065	32.065 (0.000)	223	152102			13.56- 113.56	10.66	

QC Flag Legend

A - Target compound detected but, quantitated amount exceeded maximum amount.
Q - Qualifier signal failed the ratio test.

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

Data File: /chem/msdj.i/j-09jan.b/j010909.d
Report Date: 09-Jan-1997 13:20

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j010909.d
Lab Smp Id: VSTD050
Analysis Type: VOA
Quant Type: ISTD
Operator: FA
Method File: /chem/msdj.i/j-09jan.b/TO140109.m
Misc Info:

Calibration Date: JAN/09/97
Calibration Time: 1044
Client Smp ID: VSTD050
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	192118	115271	268965	178952	-6.85
43 1,4-Difluorobenzene	832855	499713	1165997	733906	-11.88
59 Chlorobenzene-d5	625059	375035	875083	614884	-1.63

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
33 Bromochloromethane	16.69	16.19	17.19	16.73	0.23
43 1,4-Difluorobenzene	18.03	17.53	18.53	18.05	0.09
59 Chlorobenzene-d5	22.16	21.66	22.66	22.18	0.07

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

Data File: /chem/hsdj.l/j-09jan.b/j010909.d

Date : 09-JAN-97 12:48

Client ID: VSTD050

Sample Info: 250.0ml H298-25 100ppbv (50.0ppbv)

Column phase: RTx-624

Instrument: hsdj.l

Operator: FA

Column diameter: 0.58

Data File: /chem/msdj.i/j-17mar.b/j031702.d
Report Date: 17-Mar-1997 12:39

MM 3/17/97

Air Toxics Limited

CONTINUING CALIBRATION COMPOUNDS

Instrument ID: msdj.i
Lab File ID: j031702.d
Analysis Type: AIR
Lab Sample ID:
Method File: /chem/msdj.i/j-17mar.b/to140109.m

Injection Date: 17-MAR-1997 08:49
Init. Calibration Date(s): JAN/09/97 JAN/09/97
Init. Calibration Times: 10:44 12:48
Quant Type: ISTD

	COMPOUND	$\overline{RRF}$	RF10	MIN RRF	%D	MAX %D
$	35 Octafluorotoluene	2.317	2.449	0.010	5.7	30.0
$	49 Toluene-d8	0.905	0.874	0.010	3.4	30.0
$	65 Bromofluorobenzene	0.774	0.812	0.010	4.9	30.0
	16 Acetone	1.980	2.363	0.010	19.3	40.0
	17 Carbon Disulfide	3.780	3.349	0.010	11.4	40.0
	20 Methylene Chloride	1.147	1.060	0.010	7.6	30.0
	21 trans-1,2-Dichloroethene	1.275	1.143	0.010	10.4	40.0
	28 2-Butanone	0.552	0.557	0.010	0.9	40.0
	29 cis-1,2-Dichloroethene	1.350	1.340	0.010	0.8	30.0
	33 1,1,1-Trichlorethane	2.330	2.554	0.010	9.6	30.0
	37 Benzene	0.957	0.940	0.010	1.8	30.0
	38 1,2-Dichloroethane	0.374	0.403	0.010	7.9	30.0
	41 Trichloroethene	0.365	0.364	0.010	0.3	30.0
	43 1,2-Dichloropropane	0.330	0.339	0.010	3.0	30.0
	51 Toluene	0.577	0.565	0.010	2.2	30.0
	55 Tetrachloroethene	0.438	0.453	0.010	3.4	30.0
	59 Chlorobenzene	0.854	0.861	0.010	0.9	30.0
	60 Ethyl Benzene	0.532	0.517	0.010	2.8	30.0
	61 m,p-Xylene	0.518	0.483	0.010	6.7	30.0
	62 o-Xylene	0.320	0.312	0.010	2.5	30.0
	63 Styrene	0.671	0.614	0.010	8.6	30.0

REVIEWED BY
MAR 18 1997
FRANCISCO AYALA

Data File: /chem/msdj.i/j-17mar.b/j031702.d
Report Date: 17-Mar-1997 12:39

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-17mar.b/j031702.d
Lab Smp Id: Client Smp ID: Method Spike
Inj Date : 17-MAR-1997 08:49
Operator : MH Inst ID: msdj.i
Smp Info : 50mL #296-73 TO14 Std (10ppbv)
Misc Info :
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1 Continuing Calibration Sample
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: Parsons.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
15.776	15.820 (1.000)	130	234650	5.0			100.00	9290(Q)
15.776	15.820 (0.000)	128	55248			29.23- 129.23	23.54	
15.776	15.820 (0.000)	49	125784			130.39- 230.39	53.60	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.302	16.346 (1.033)	217	574741	5.0	5.3		100.00	7173
16.302	16.346 (0.000)	186	120008			13.54- 113.54	20.88	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.111	17.155 (1.000)	114	1091071	5.0			100.00	9272
17.111	17.155 (0.000)	88	65088			0.00- 69.19	5.97	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.125	19.169 (1.118)	98	953649	5.0	4.8		100.00	9920
19.125	19.169 (0.000)	70	40068			0.00- 63.99	4.20	
19.125	19.169 (0.000)	100	187646			15.53- 115.53	19.68	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.177	21.229 (1.000)	117	904693	5.0			100.00	9932
21.177	21.229 (0.000)	82	155458			14.83- 114.83	17.18	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	AMOUNTS ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
65 Bromofluorobenzene					CAS #: 460-00-4			
23.000	23.060 (1.086)	95	734609	5.0	5.2		100.00	8125
23.000	23.060 (0.000)	174	104976			7.76- 107.76	14.29	
23.000	23.060 (0.000)	176	102491			7.57- 107.57	13.95	
16 Acetone					CAS #: 67-64-1			
12.533	12.578 (0.794)	43	1108893	10.0	11.9		100.00	
12.526	12.578 (0.794)	58	318305			0.00- 79.57	28.70	
17 Carbon Disulfide					CAS #: 75-15-0			
12.663	12.707 (0.803)	76	1571619	10.0	8.8		100.00	8102
20 Methylene Chloride					CAS #: 75-09-2			
13.365	13.409 (0.847)	84	497462	10.0	9.2		100.00	9504(Q)
13.365	13.409 (0.000)	49	234624			101.55- 201.55	47.16	
13.365	13.409 (0.000)	51	73834			0.00- 96.86	14.84	
21 trans-1,2-Dichloroethene					CAS #: 156-60-5			
13.853	13.890 (0.878)	96	536315	10.0	9.0		100.00	8261(Q)
13.853	13.890 (0.000)	61	273536			113.19- 213.19	51.00	
13.853	13.890 (0.000)	98	106984			13.58- 113.58	19.95	
28 2-Butanone					CAS #: 78-93-3			
15.409	15.461 (0.977)	72	261205	10.0	10.1		100.00	7903(Q)
15.409	15.461 (0.000)	43	374215			451.27- 551.27	143.26	
15.409	15.461 (0.000)	57	25468			0.00- 84.11	9.75	
29 cis-1,2-Dichloroethene					CAS #: 156-59-2			
15.425	15.469 (0.978)	96	628634	10.0	9.9		100.00	8240(Q)
15.425	15.469 (0.000)	61	290480			101.95- 201.95	46.21	
15.425	15.469 (0.000)	98	123880			14.80- 114.80	19.71	
33 1,1,1-Trichloroethane					CAS #: 71-55-6			
16.134	16.186 (1.023)	97	1198655	10.0	11.0		100.00	7454
16.134	16.186 (0.000)	99	229568			14.04- 114.04	19.15	
37 Benzene					CAS #: 71-43-2			
16.661	16.705 (0.974)	78	2051234	10.0	9.8		100.00	7908
16.661	16.705 (0.000)	77	148474			0.00- 74.19	7.24	
38 1,2-Dichloroethane					CAS #: 107-06-2			
16.668	16.713 (0.974)	62	879752	10.0	10.8		100.00	6308
16.668	16.713 (0.000)	64	82496			0.00- 81.75	9.38	
41 Trichloroethene					CAS #: 79-01-6			
17.507	17.552 (1.023)	95	793730	10.0	10		100.00	8796(Q)
17.507	17.552 (0.000)	130	212608			37.96- 137.96	26.79	
17.507	17.552 (0.000)	97	159162			15.85- 115.85	20.05	

RT	EXP RT (REL RT)	MASS	RESPONSE	AMOUNTS CAL-AMT (PPBV)	ON-COL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
43 1,2-Dichloropropane					CAS #: 78-87-5			
17.813	17.865 (1.041)	63	740644	10.0	10.3		100.00	8600(Q)
17.813	17.865 (0.000)	62	166400			24.32- 124.32	22.47	
17.813	17.865 (0.000)	41	150093			11.72- 111.72	20.27	
51 Toluene					CAS #: 108-88-3			
19.216	19.268 (1.123)	92	1231878	10.0	9.8		100.00	8537(Q)
19.216	19.268 (0.000)	91	619871			118.26- 218.26	50.32	
55 Tetrachloroethene					CAS #: 127-18-4			
19.995	20.047 (0.944)	166	819220	10.0	10.3		100.00	9034(Q)
19.995	20.047 (0.000)	129	200704			31.37- 131.37	24.50	
19.995	20.047 (0.000)	131	192320			27.97- 127.97	23.48	
59 Chlorobenzene					CAS #: 108-90-7			
21.223	21.275 (1.002)	112	1558426	10.0	10.1		100.00	9143
21.223	21.275 (0.000)	114	132736			0.00- 81.98	8.52	
21.223	21.275 (0.000)	77	276995			15.87- 115.87	17.77	
60 Ethyl Benzene					CAS #: 100-41-4			
21.307	21.366 (1.006)	106	934990	10.0	9.7		100.00	(H)
21.307	21.366 (1.006)	91	3231897			296.25- 396.25	345.66	
61 m,p-Xylene					CAS #: 108-38-3			
21.467	21.519 (1.014)	106	1748900	20.0	18.7		100.00	
21.307	21.519 (1.006)	91	3231897			164.96- 264.96	184.80	
62 o-Xylene					CAS #: 95-47-6			
22.108	22.168 (1.044)	106	564760	10.0	9.7		100.00	7734(Q)
22.108	22.168 (0.000)	91	335057			176.02- 276.02	59.33	
63 Styrene					CAS #: 100-42-5			
22.123	22.183 (1.045)	104	1110244	10.0	9.1		100.00	8725
22.123	22.183 (0.000)	78	150339			1.87- 101.87	13.54	

QC Flag Legend

Q - Qualifier signal failed the ratio test.
H - Operator selected an alternate compound hit.

Audit History For: /chem/msdj.i/j-17mar.b/j031702.d

MH
3/17/97

Change Date: 17-Mar-97 09:08
Change Made by: Automation

Parameter: ChemLan Data Transfer
Old Value:
New Value:
Reason For Change: MS Data from Instrument: msdj.i

Change Date: 17-Mar-97 09:09
Change Made by: Automation

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Complete Target Compound Processing

Change Date: 17-Mar-97 09:09
Change Made by: mhe

Parameter: date
Old Value: 17-MAR-97 08:49
New Value: 17-MAR-1997 08:49
Reason For Change: N/A

Change Date: 17-Mar-97 09:09
Change Made by: mhe

Parameter: Sample Type
Old Value: Non-Calibration Sample
New Value: Continuining Calibration
Reason For Change: N/A

Change Date: 17-Mar-97 09:09
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

Change Date: 17-Mar-97 09:10
Change Made by: mhe

Parameter: Best Hit for Dichlorodifluoromethane/FR 12 changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 09:10
Change Made by: mhe

Parameter: Manual reintegration of Dichlorodifluoromethane/FR 12 (Signal 1)
Old Value: No previous peak at 4.881
New Value: New Area/Time: 1239083 / 4.88
Reason For Change: N/A

Change Date: 17-Mar-97 09:11
Change Made by: mhe

Parameter: Best Hit for Ethyl Benzene changed
Old Value: Old Hit #1
New Value: New Hit #2
Reason For Change: N/A

Change Date: 17-Mar-97 09:11
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 09:11
Change Made by: mhe

Parameter: Manual reintegration of 4-Ethyltoluene (Signal 2)
Old Value: Old Area/Time: 104102 / 23.54
New Value: New Area/Time: 439454 / 23.55
Reason For Change: N/A

Change Date: 17-Mar-97 09:11
Change Made by: mhe

Parameter: Manual reintegration of 1,3,5-Trimethylbenzene (Signal 2)
Old Value: Old Area/Time: 37688 / 23.63
New Value: New Area/Time: 367481 / 23.63
Reason For Change: N/A

Change Date: 17-Mar-97 09:11
Change Made by: mhe

Parameter: Manual reintegration of 1,4-Dichlorobenzene (Signal 1)
Old Value: Old Area/Time: 2118 / 25.62
New Value: New Area/Time: 934050 / 25.24
Reason For Change: N/A

Change Date: 17-Mar-97 10:29
Change Made by: mhe

Parameter: Compound Sublist
Old Value: AT.sub
New Value: Parsons.sub
Reason For Change: N/A

Change Date: 17-Mar-97 10:29
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

Change Date: 17-Mar-97 12:39
Change Made by: mhe

Parameter: QC Sample Type
Old Value: BLANK
New Value: METHSPIKE

Reason For Change: N/A

Change Date: 17-Mar-97 12:39
Change Made by: mhe

Parameter: Spike Sample
Old Value: Off
New Value: On
Reason For Change: N/A

Change Date: 17-Mar-97 12:39
Change Made by: mhe

Parameter: Client ID
Old Value: VSTD150
New Value: Method Spike
Reason For Change: N/A

Change Date: 17-Mar-97 12:39
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

Data File: /chem/msdj.i/j-17mar.b/j031702.d
Report Date: 17-Mar-1997 12:39

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j031702.d
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-17mar.b/to140109.m
Misc Info:

Calibration Date: 03/17/97
Calibration Time: 1038
Client Smp ID: Method Spike
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	210429	126257	294601	234650	11.51
40 1,4-Difluorobenzene	978812	587287	1370337	1091071	11.47
58 Chlorobenzene-d5	797863	478718	1117008	904693	13.39

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	15.77	15.27	16.27	15.78	0.01
40 1,4-Difluorobenzene	17.11	16.61	17.61	17.11	0.00
58 Chlorobenzene-d5	21.18	20.68	21.68	21.18	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

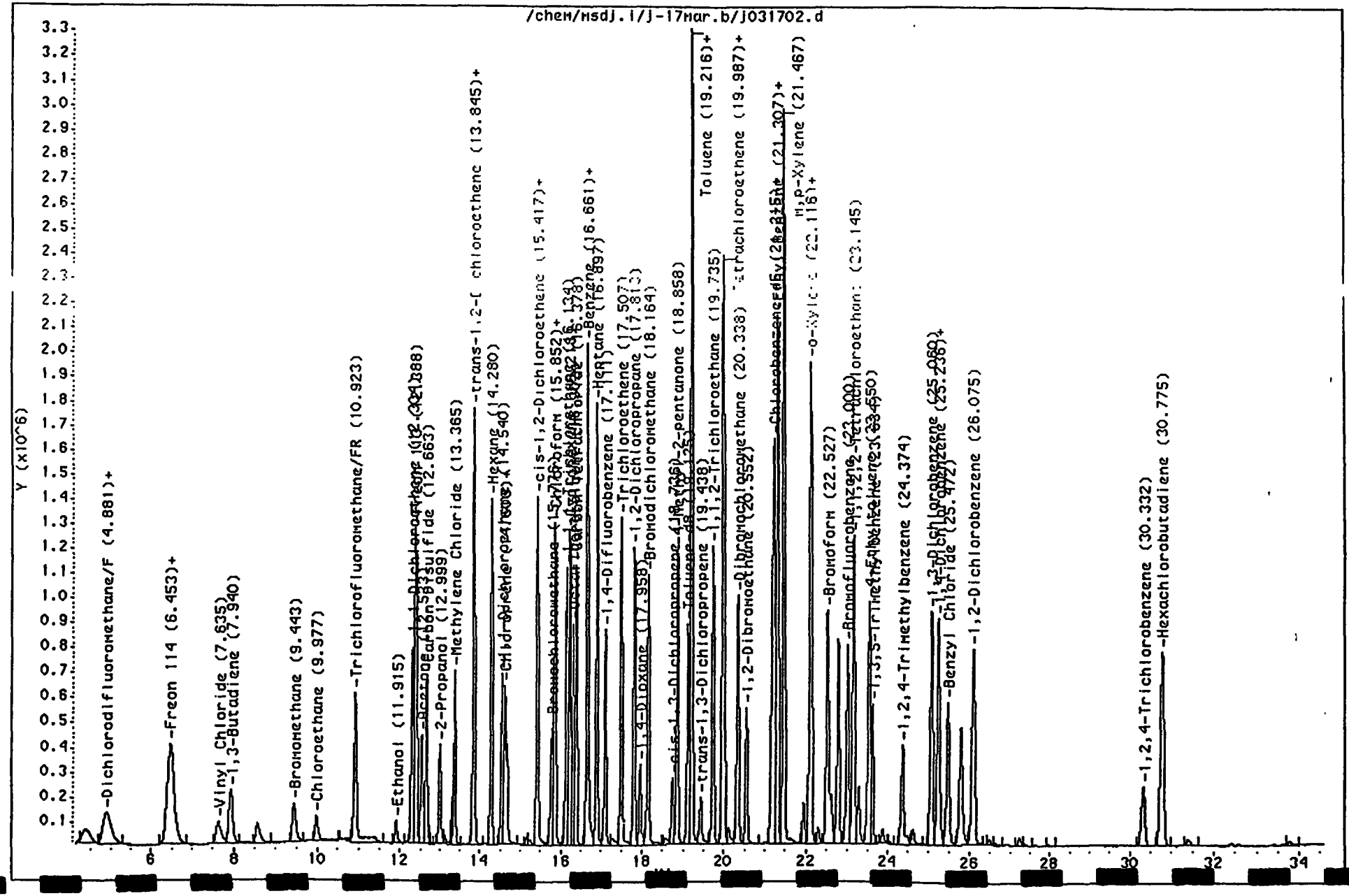
MH
3/17/97

Data File: /chem/msdj.i/j-17mar.b/j031702.d
Date : 17-MAR-1997 08:49
Client ID: Method Spike
Sample Info: 50mL #296-73 T014 Std (10ppbv)

Instrument: msdj.i

Operator: MH
Column diameter: 0.58

Column phase: RTx-624



Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

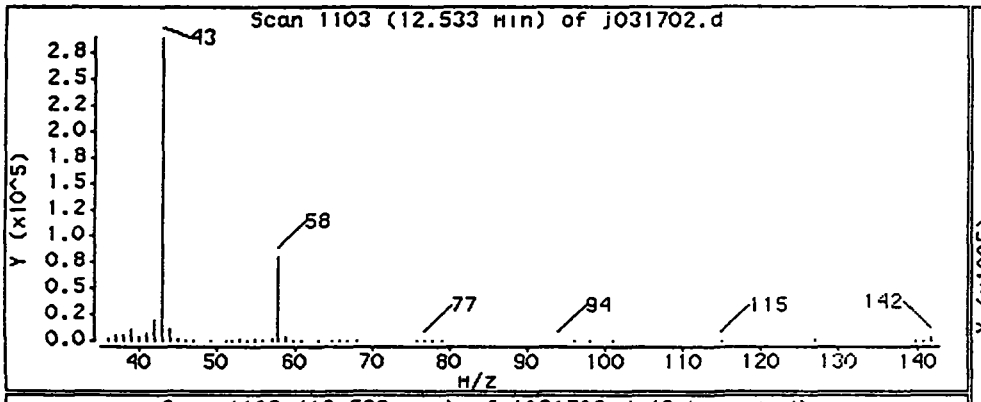
Sample Info: 50mL #296-73 T014 Std (10ppbv)

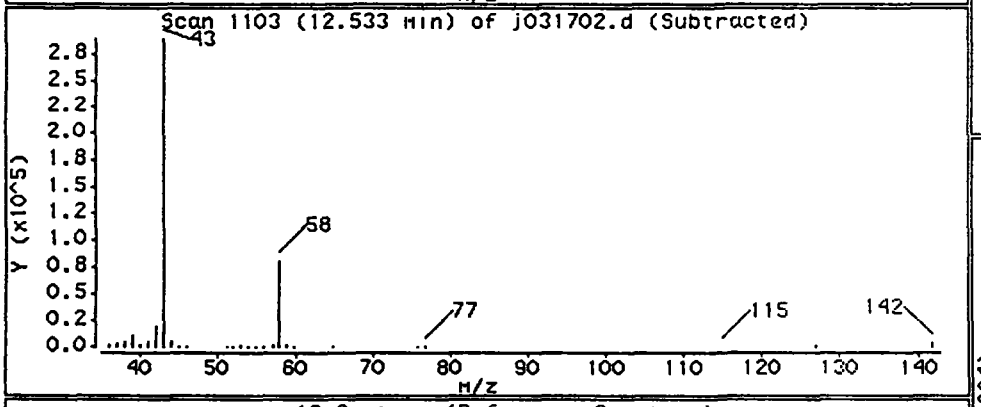
Operator: MH

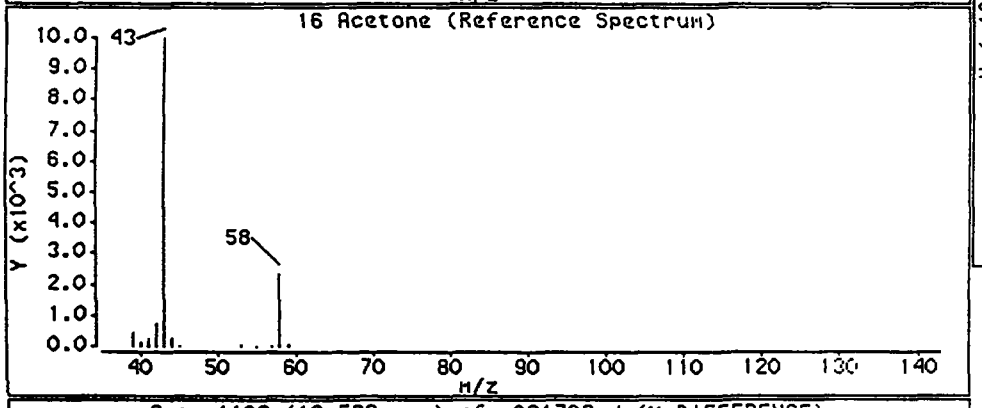
Column phase: RTx-624

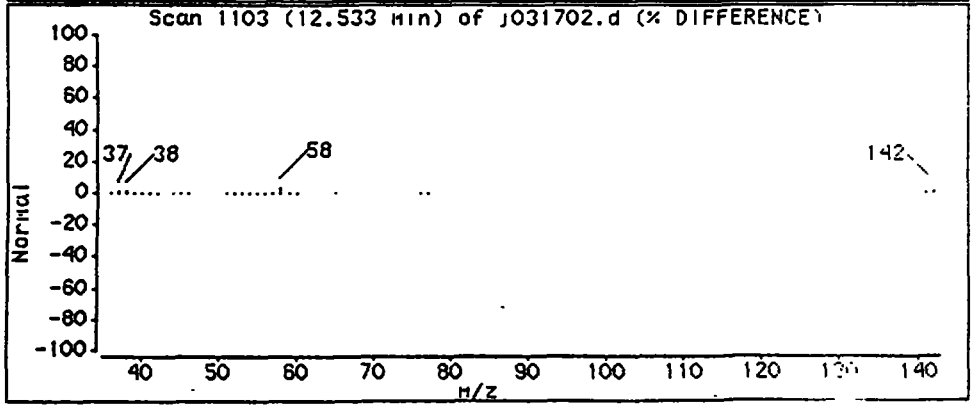
Column diameter: 0.58

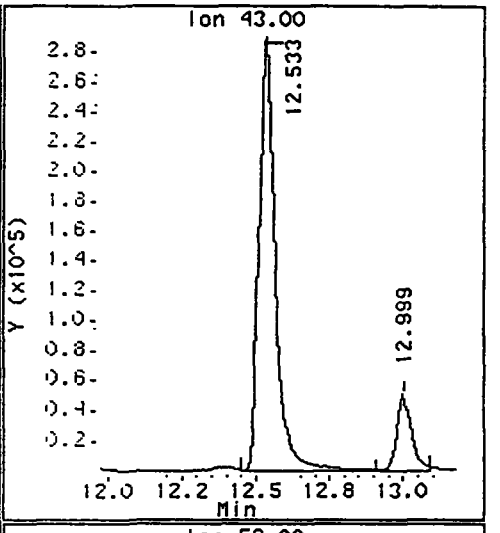
16 Acetone

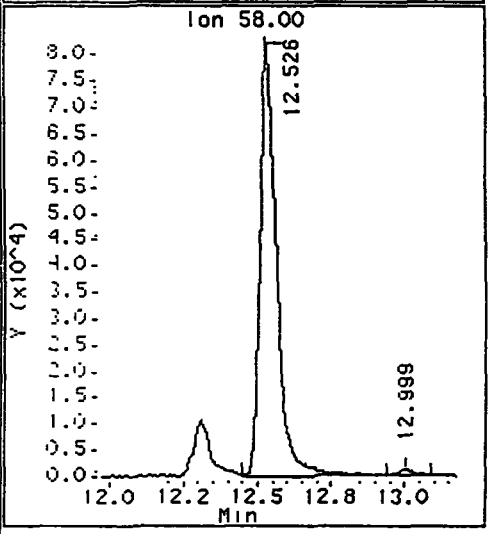












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

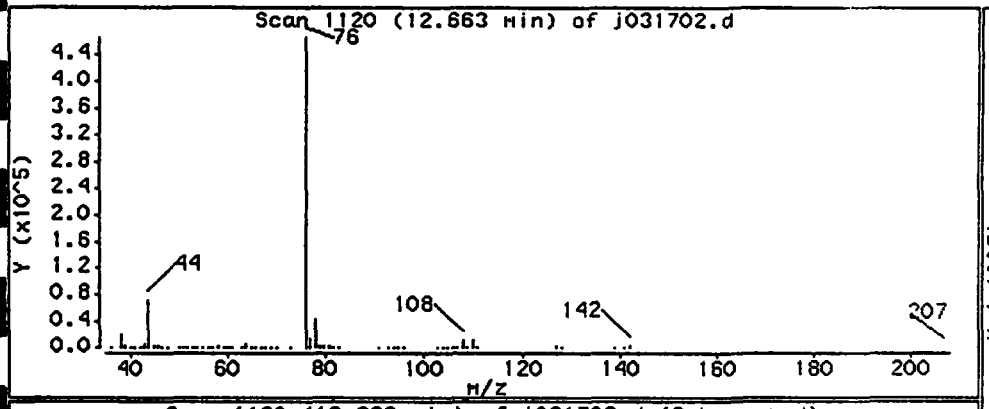
Sample Info: 50mL #296-73 T014 Std (10ppbv)

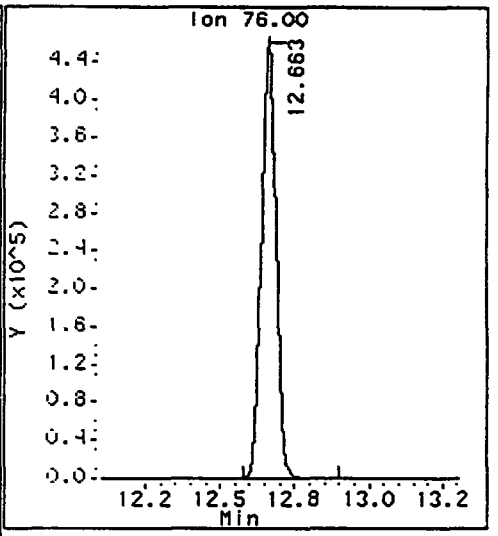
Operator: MH

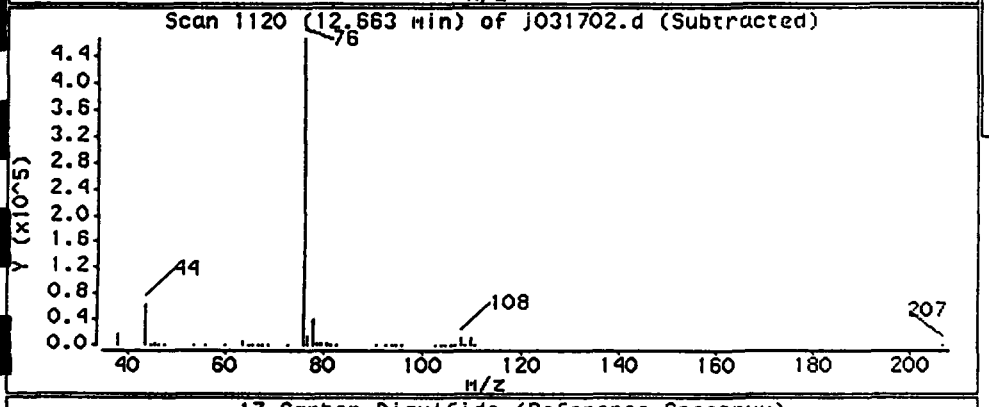
Column phase: RTx-624

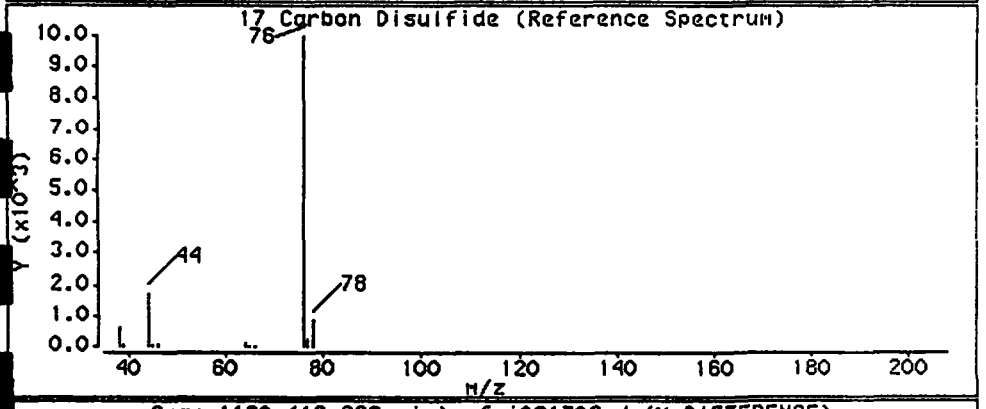
Column diameter: 0.58

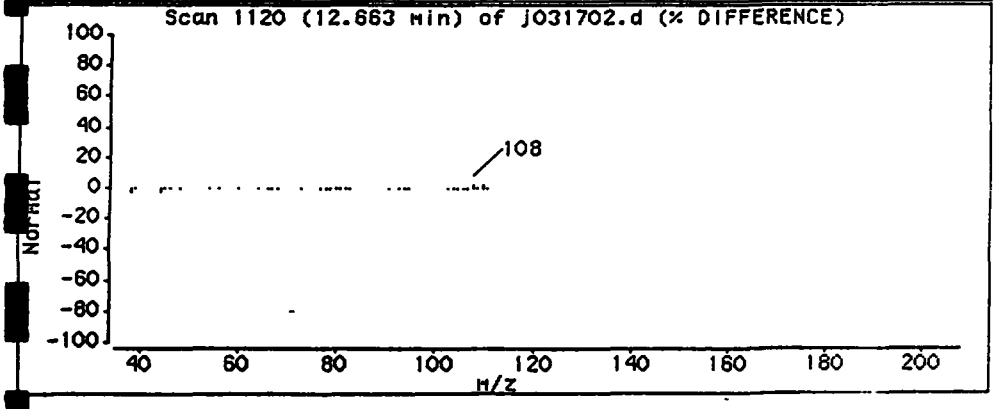
17 Carbon Disulfide











Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

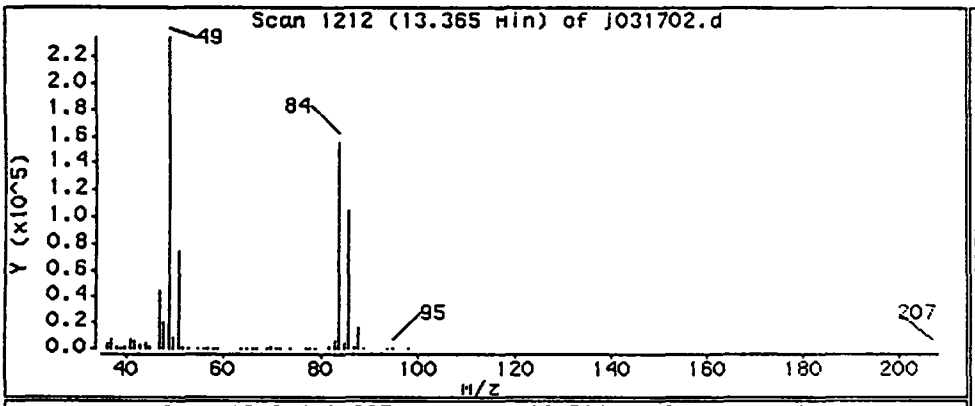
Sample Info: 50mL #296-73 T014 Std (10ppbv)

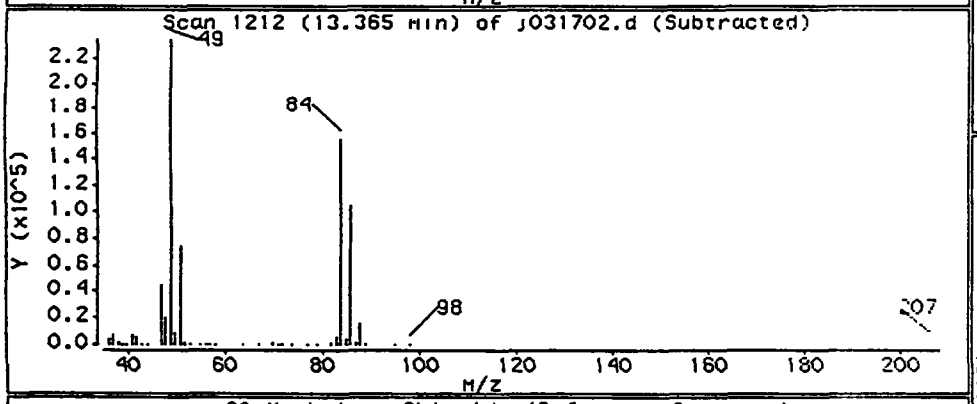
Operator: MH

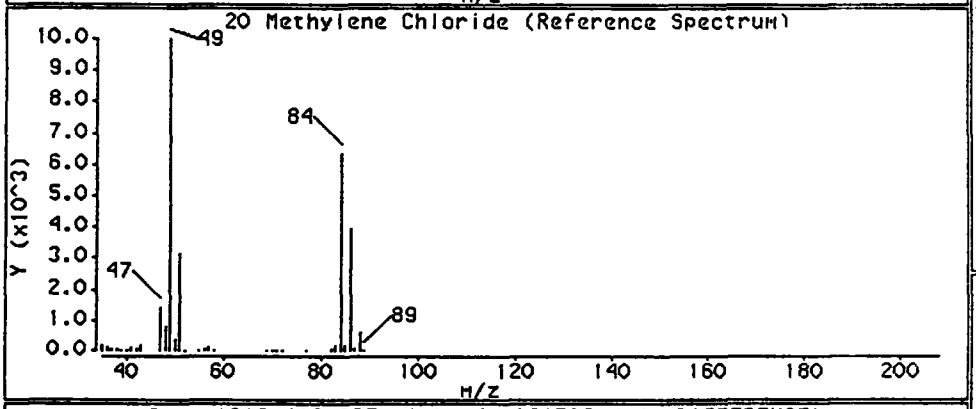
Column phase: RTx-624

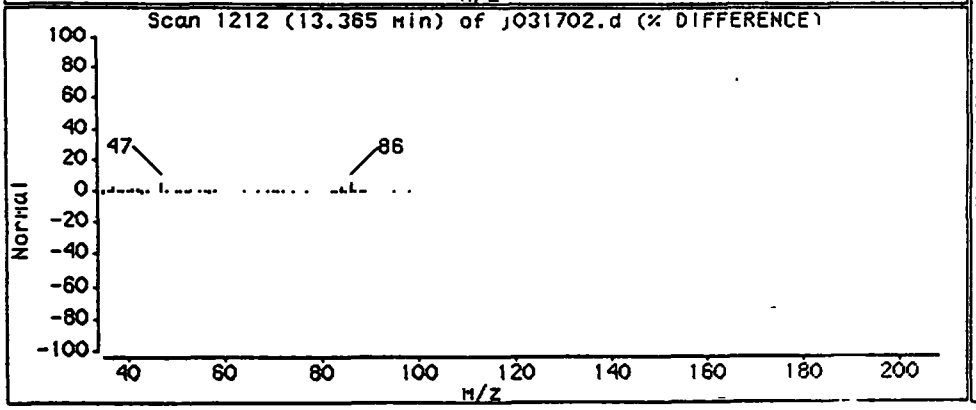
Column diameter: 0.58

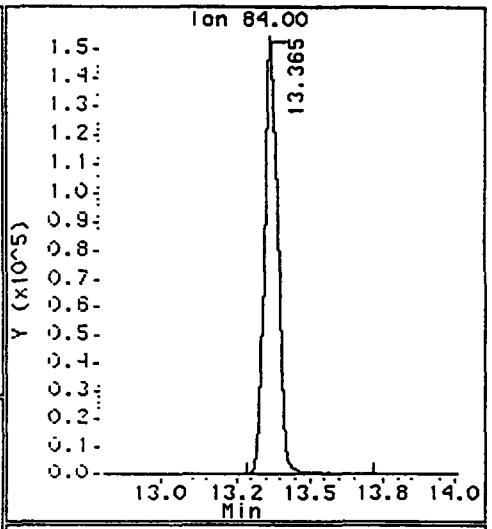
20 Methylene Chloride

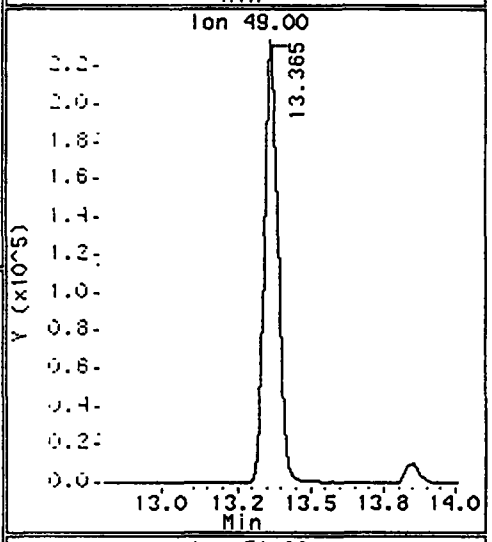


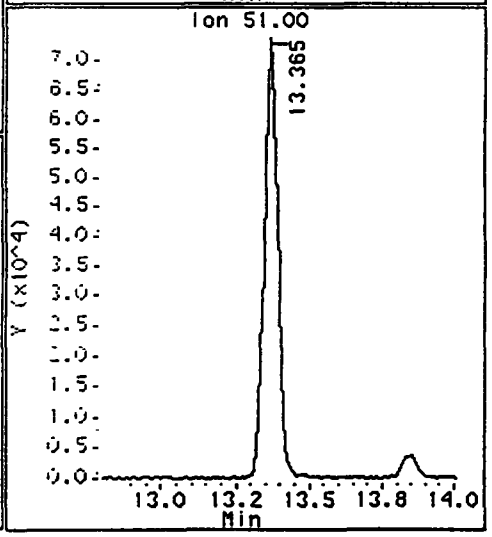












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

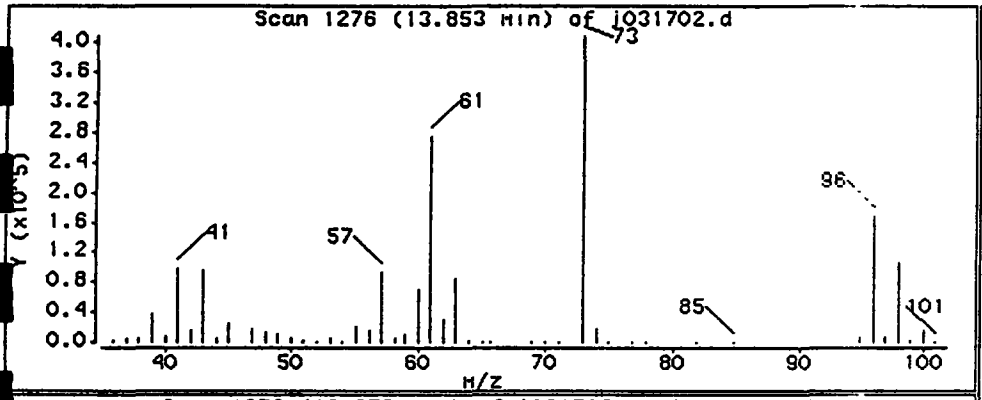
Sample Info: 50mL #296-73 T014 Std (10ppbv)

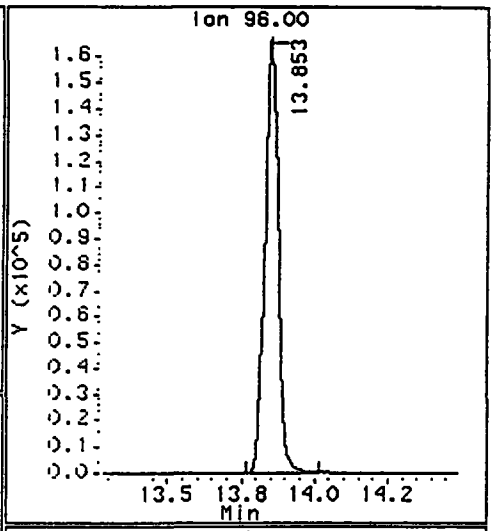
Operator: MH

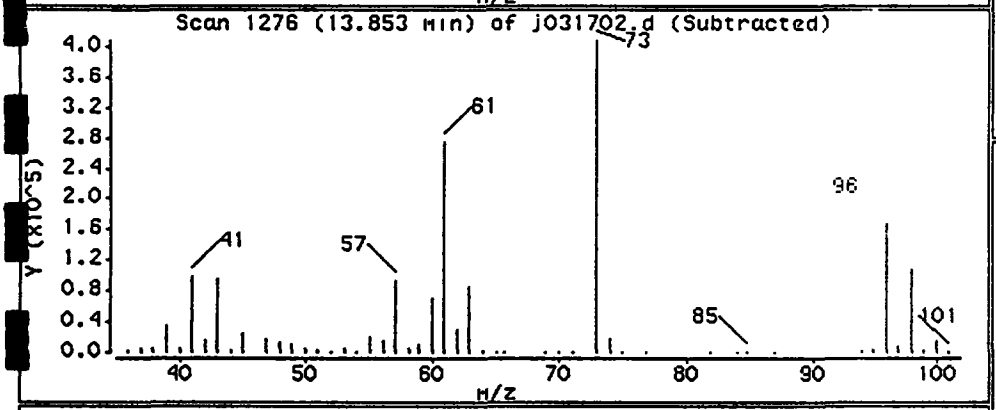
Column phase: RTx-624

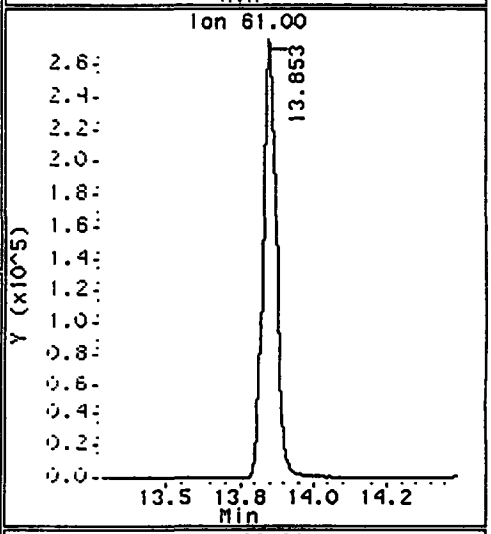
Column diameter: 0.58

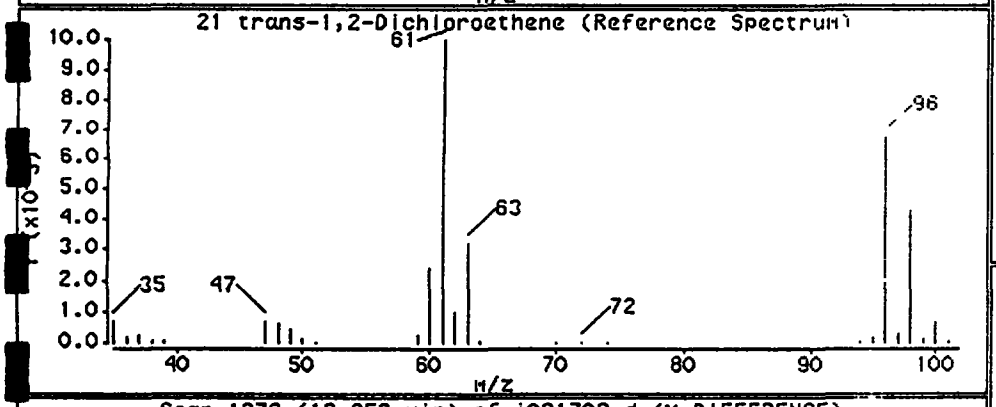
21 trans-1,2-Dichloroethene

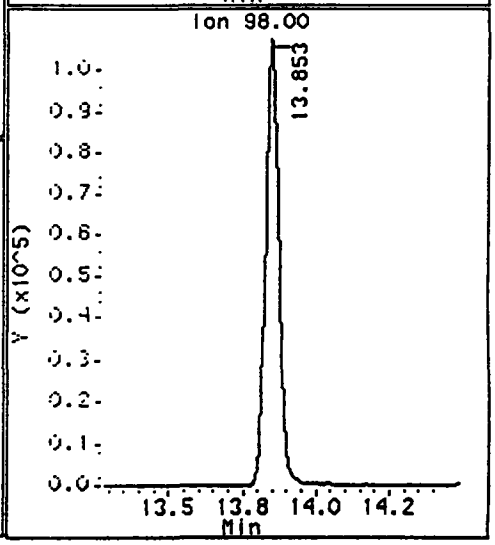


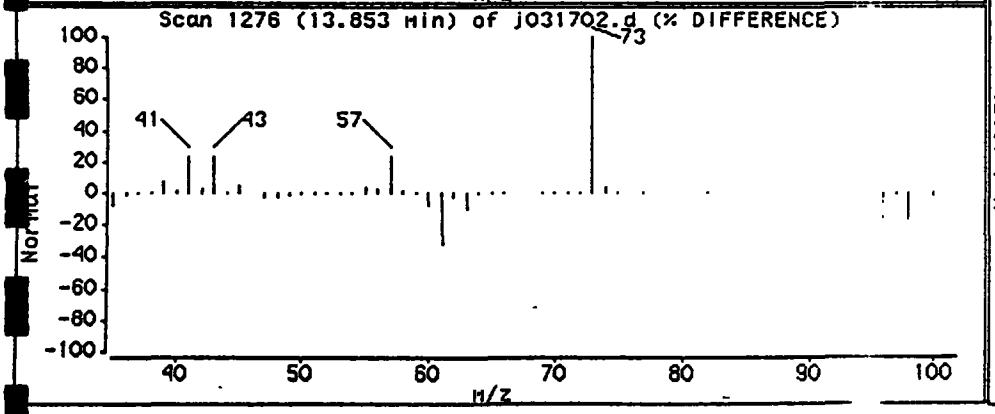












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

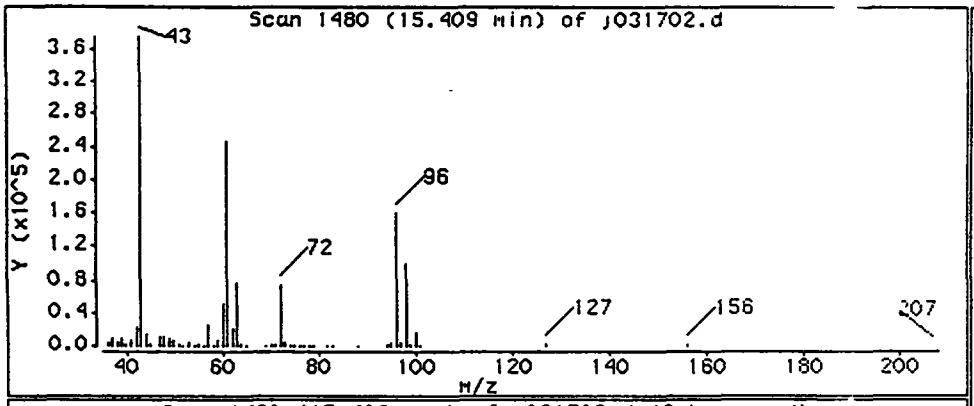
Sample Info: 50mL #296-73 TO14 Std (10ppbv)

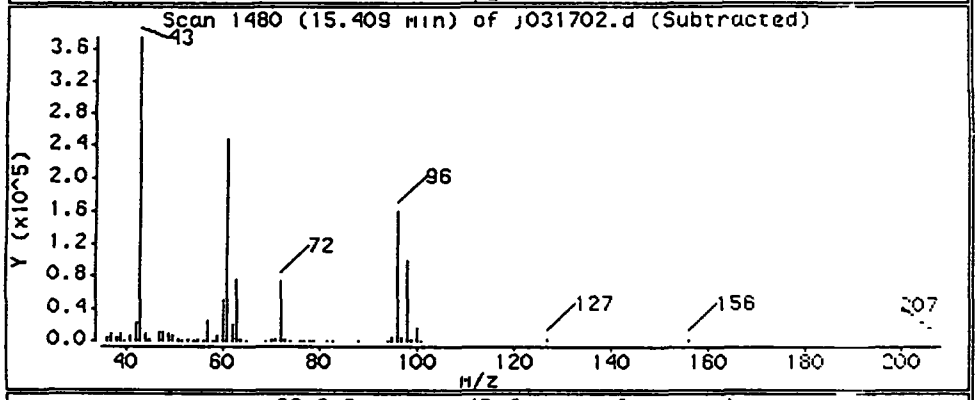
Operator: MH

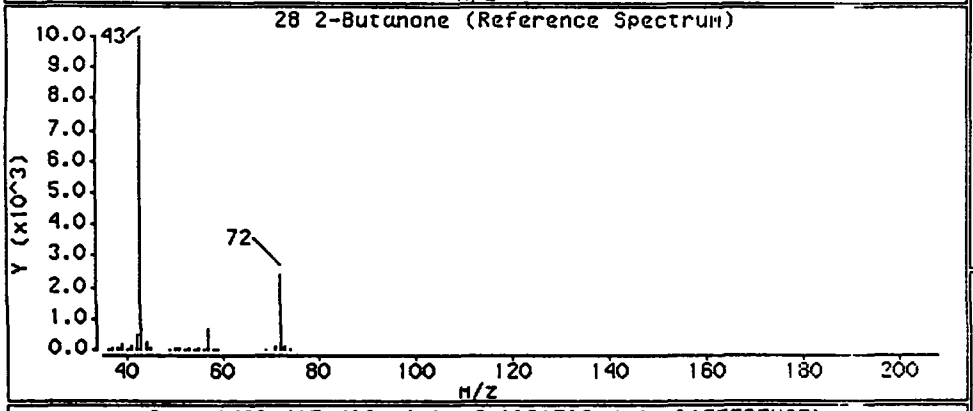
Column phase: RTx-624

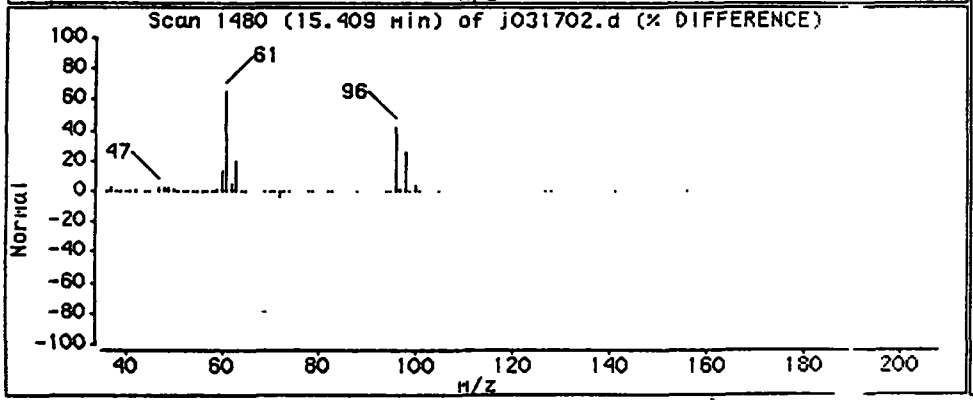
Column diameter: 0.58

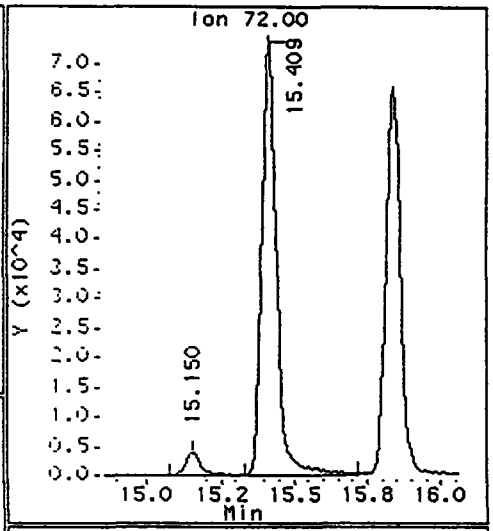
28 2-Butanone

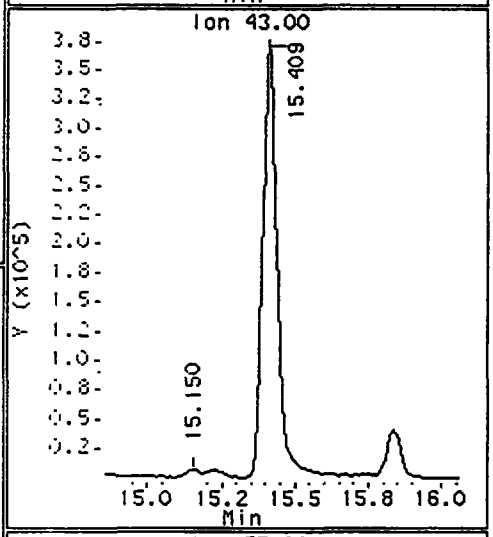


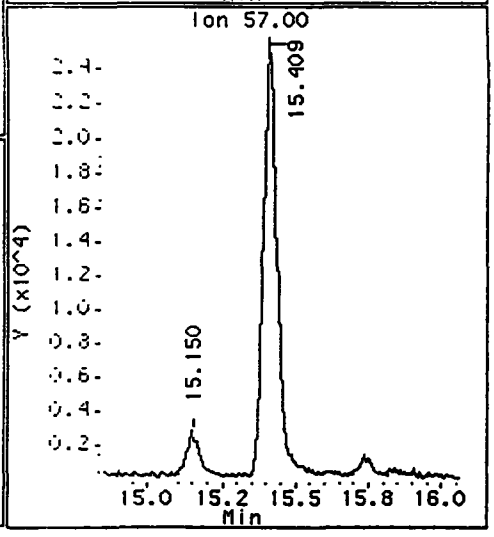












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

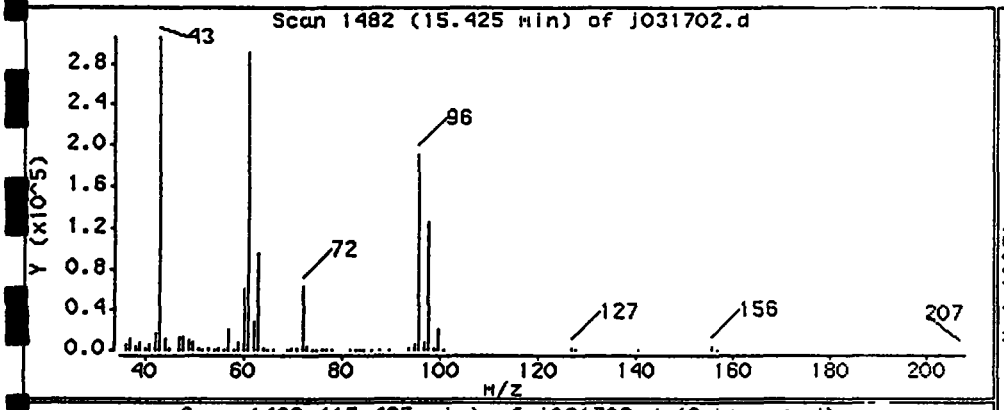
Sample Info: 50mL #296-73 T014 Std (10ppbv)

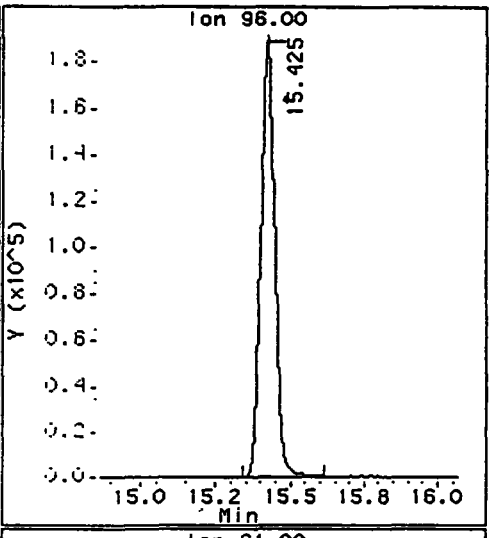
Operator: MH

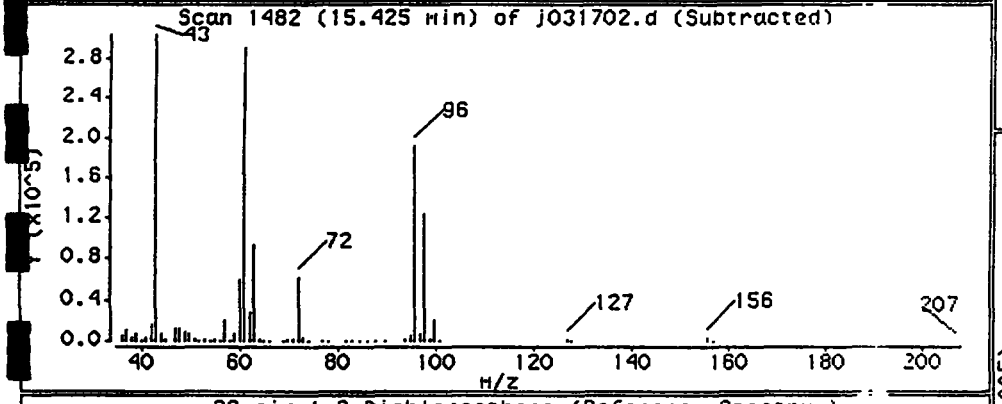
Column phase: RTx-624

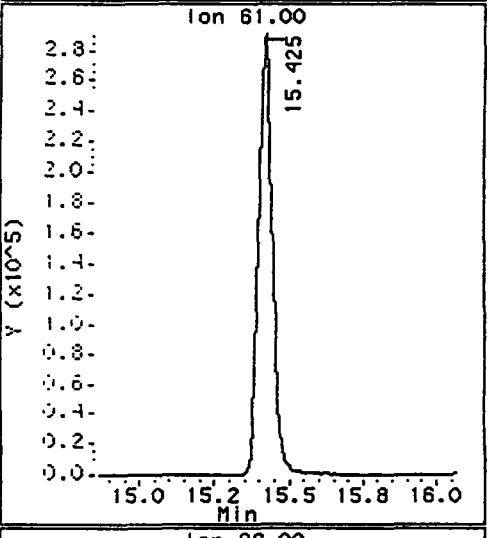
Column diameter: 0.58

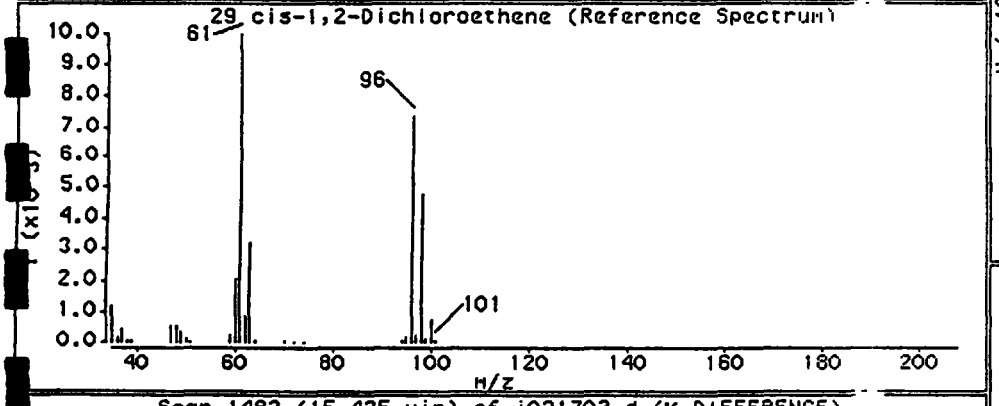
29 cis-1,2-Dichloroethene

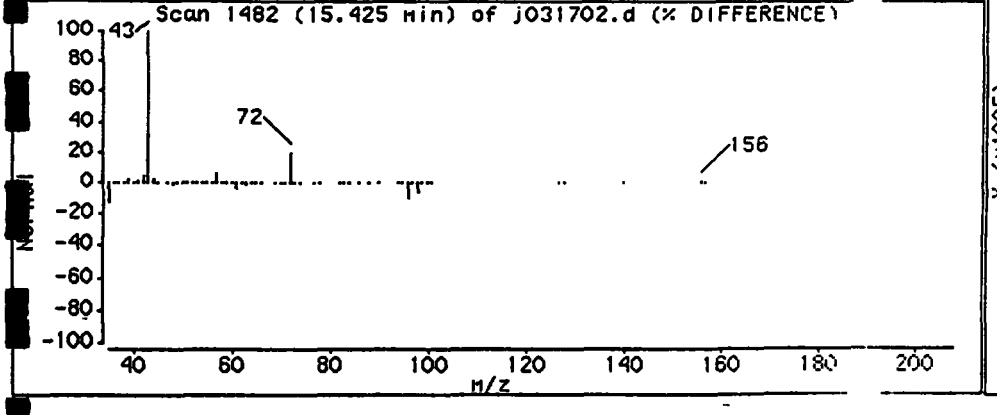


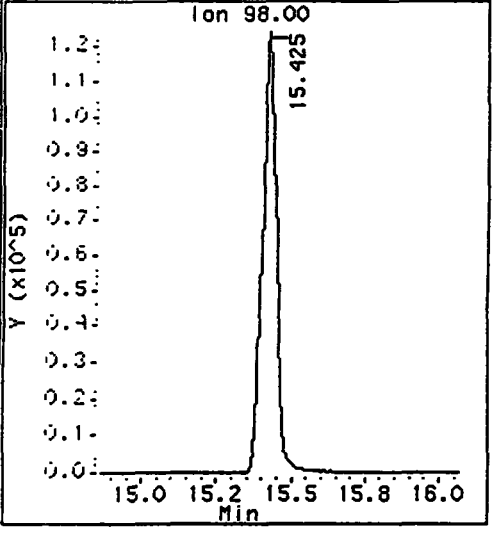












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

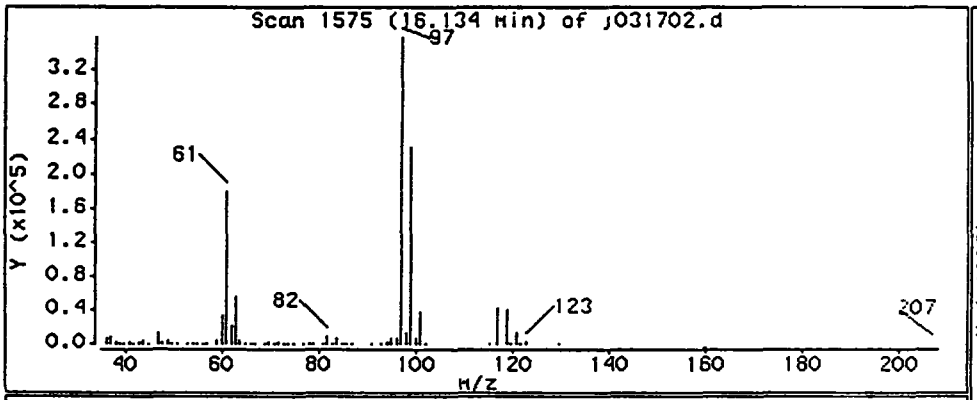
Sample Info: 50mL #296-73 TO14 Std (10ppbv)

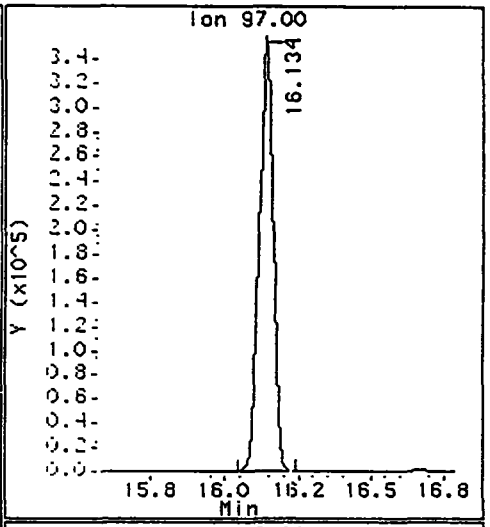
Operator: MH

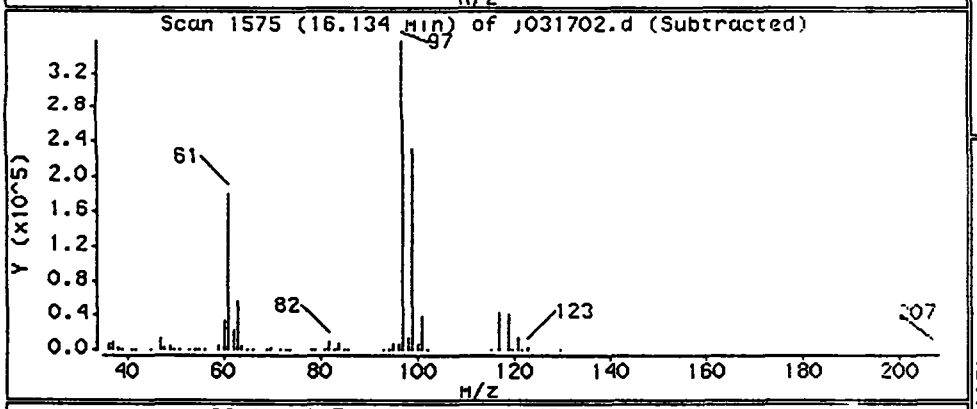
Column phase: RTx-624

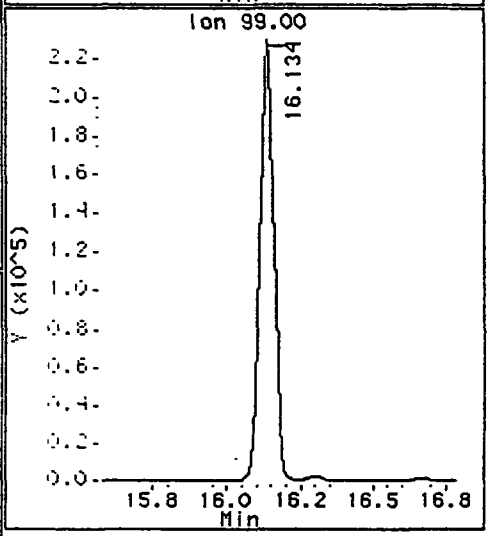
Column diameter: 0.58

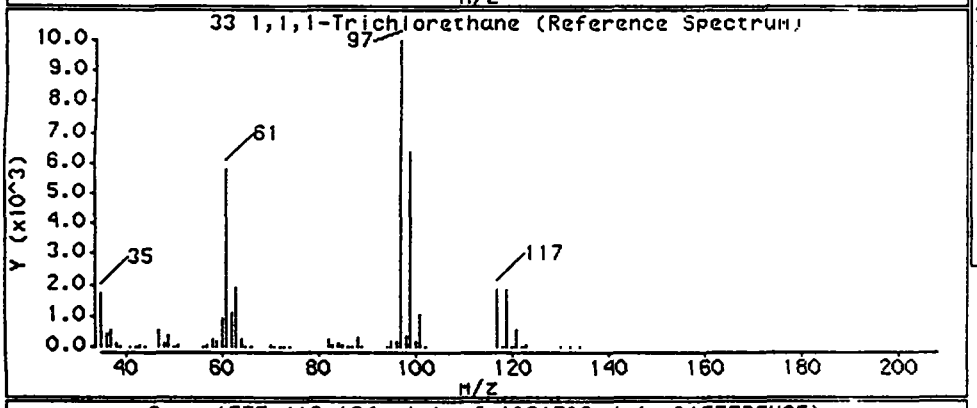
33 1,1,1-Trichlorethane

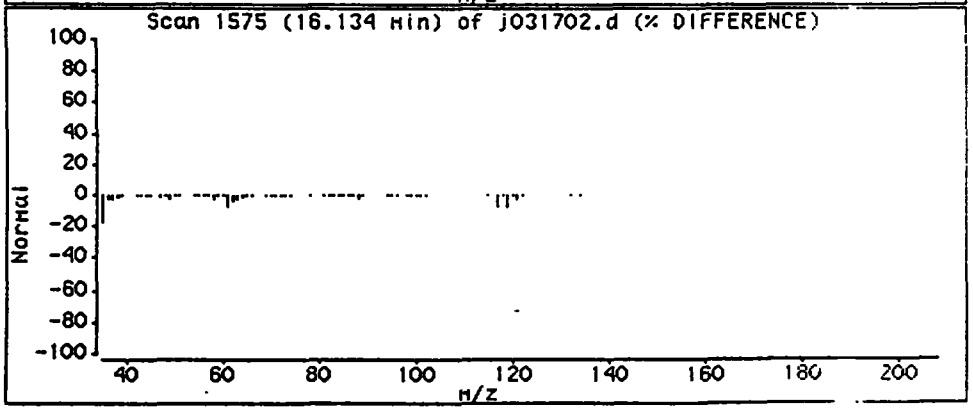












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

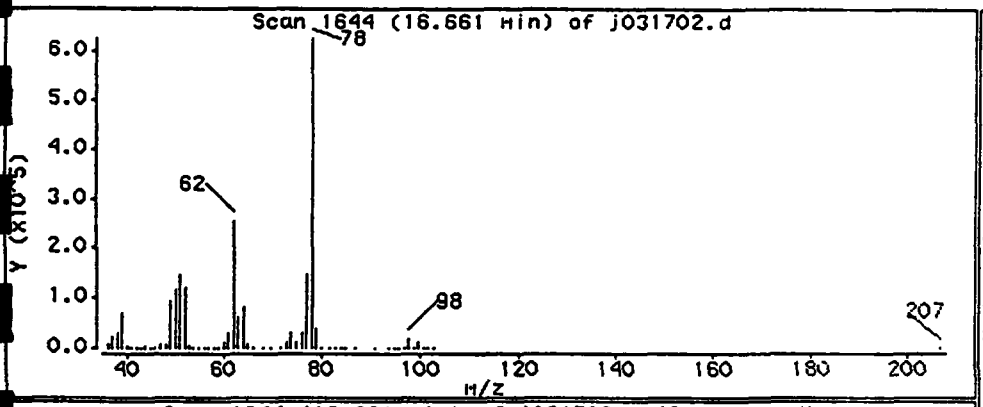
Sample Info: 50mL #296-73 TO14 Std (10ppbv)

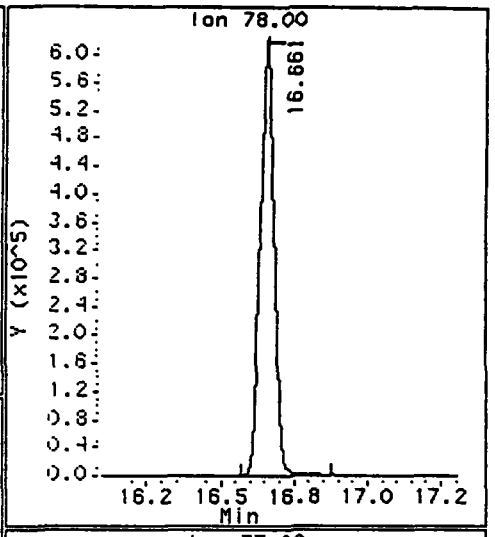
Operator: MH

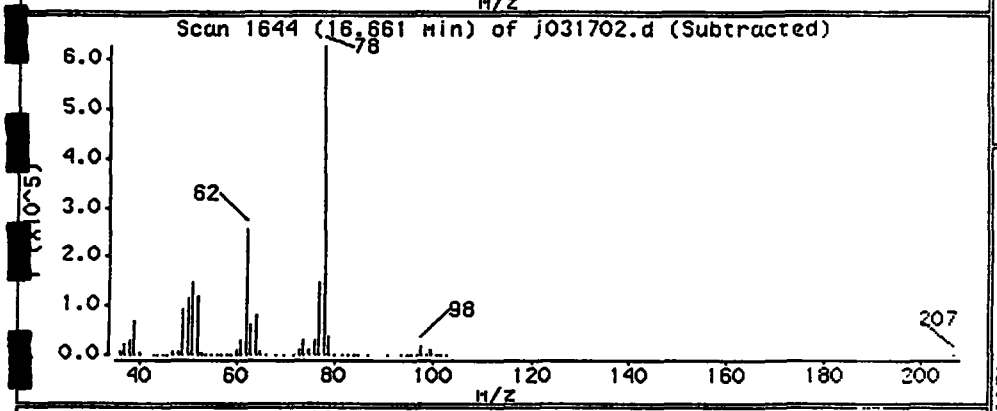
Column phase: RTx-624

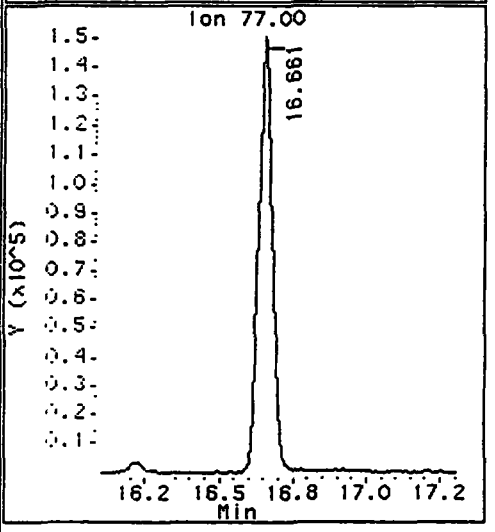
Column diameter: 0.58

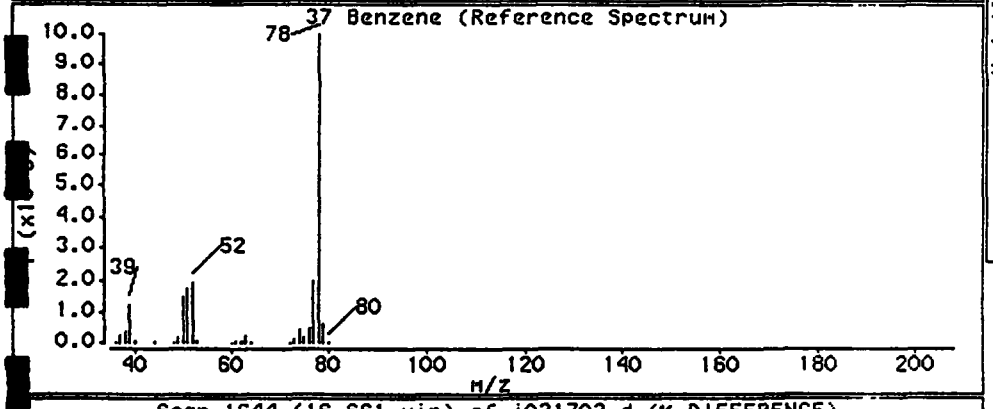
37 Benzene

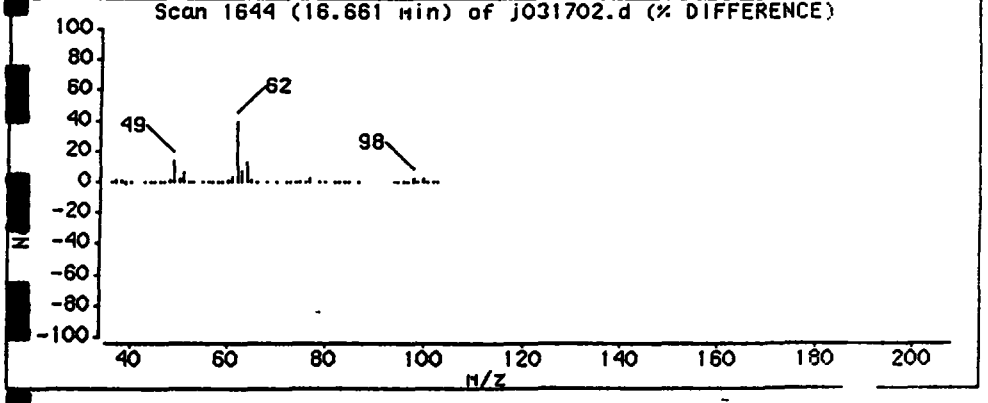












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

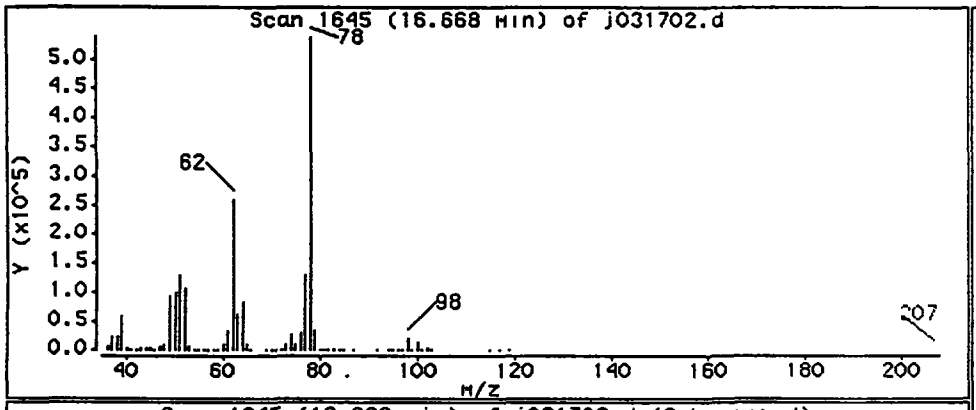
Sample Info: 50mL #296-73 TO14 Std (10ppbv)

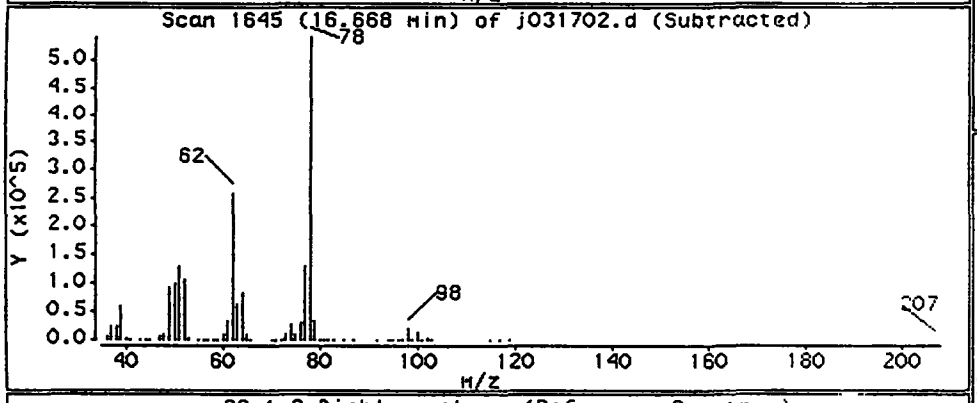
Operator: MH

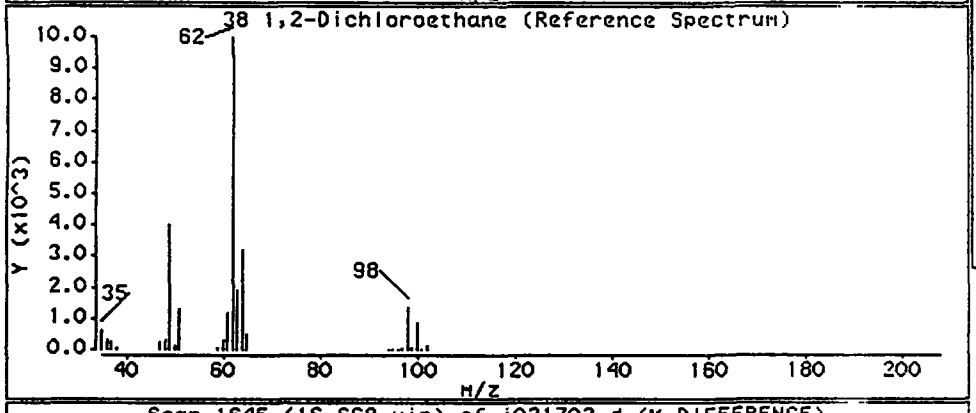
Column phase: RTx-624

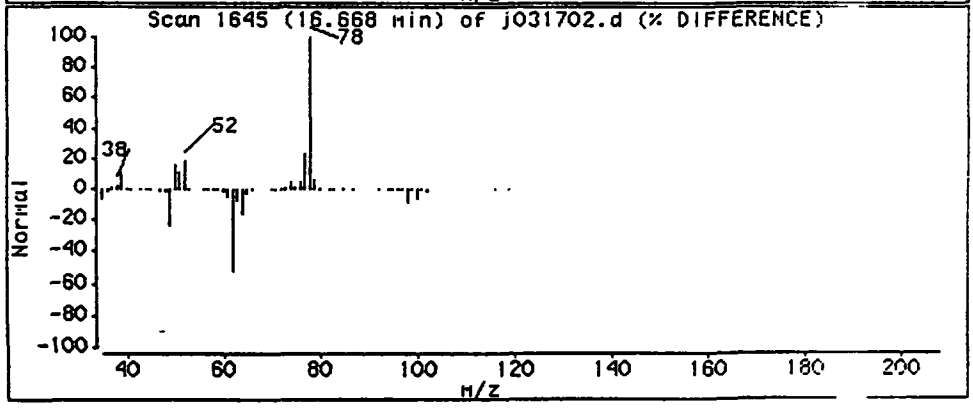
Column diameter: 0.53

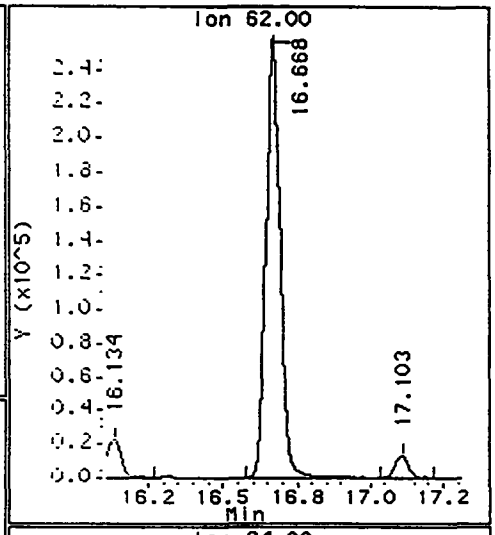
38 1,2-Dichloroethane

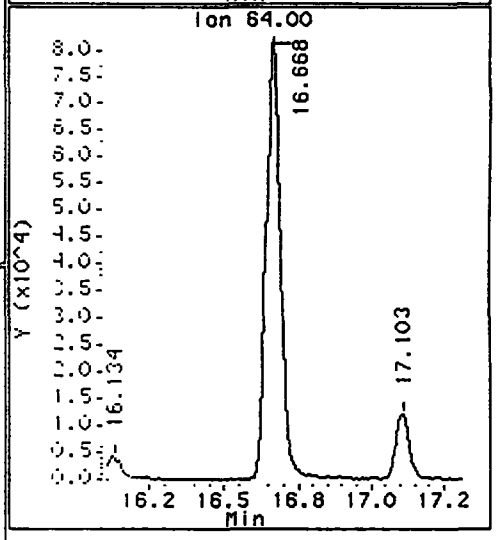












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

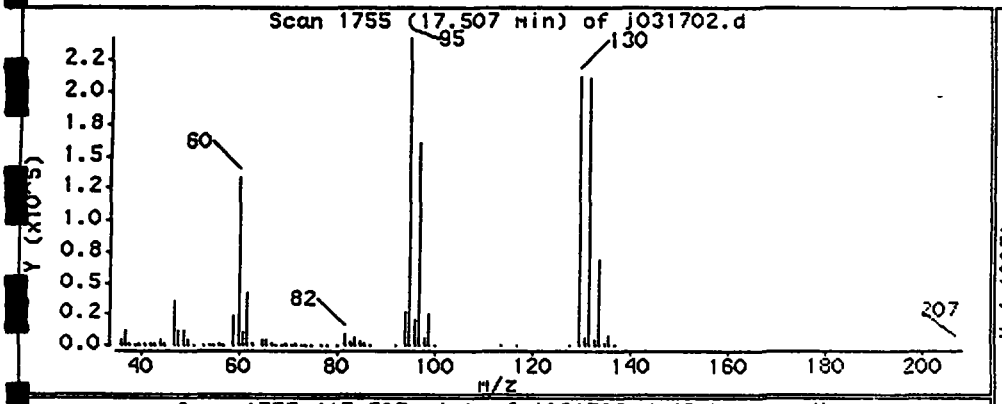
Sample Info: 50mL #296-73 T014 Std (10ppbv)

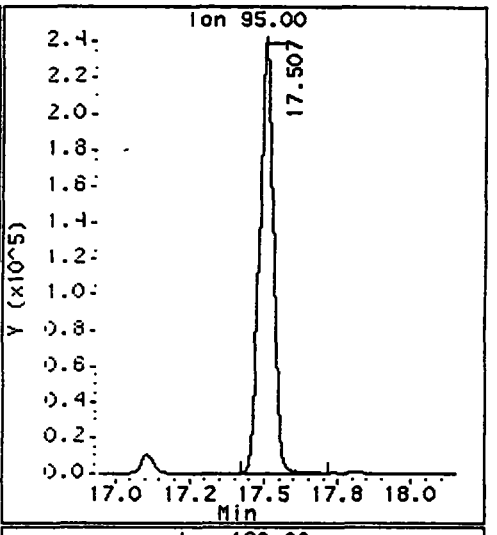
Operator: MH

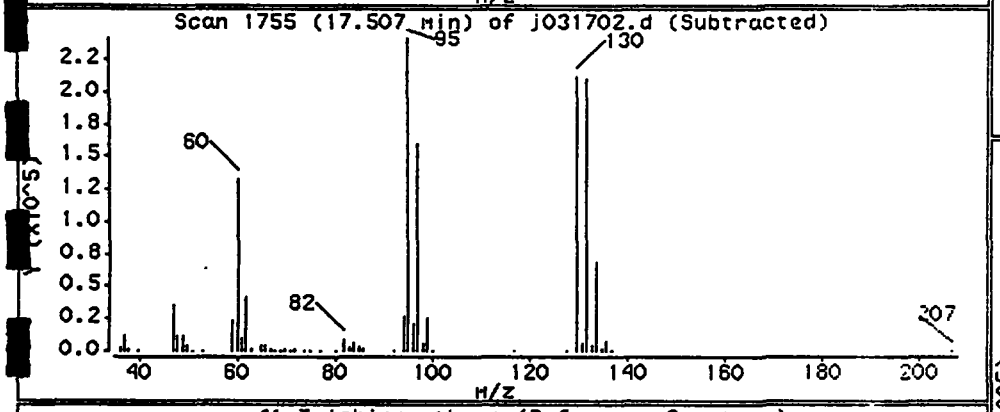
Column phase: RTx-624

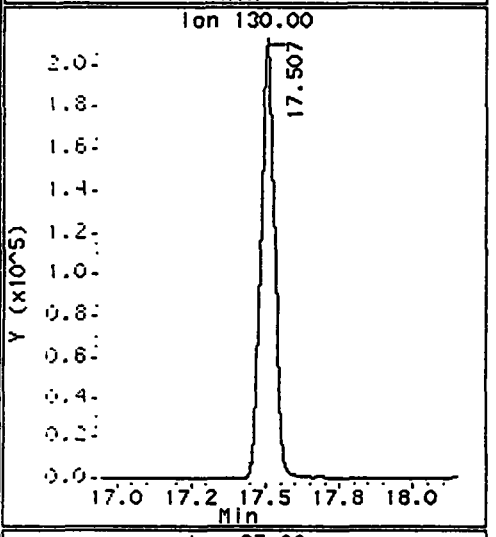
Column diameter: 0.53

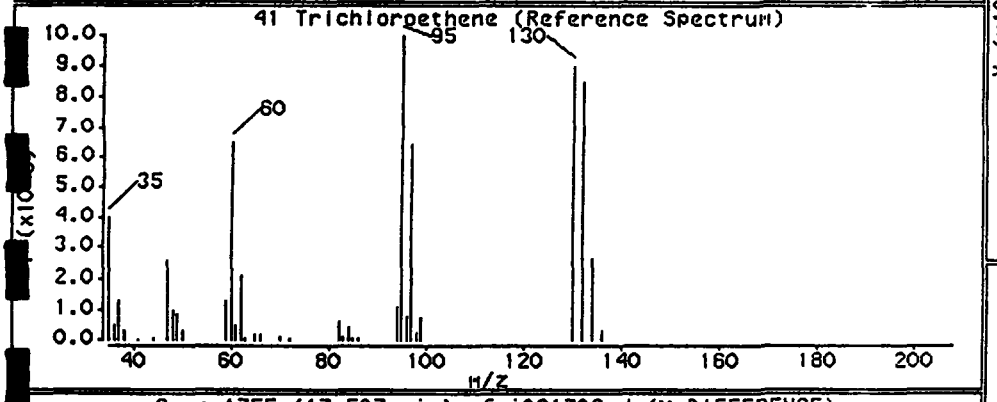
41 Trichloroethene

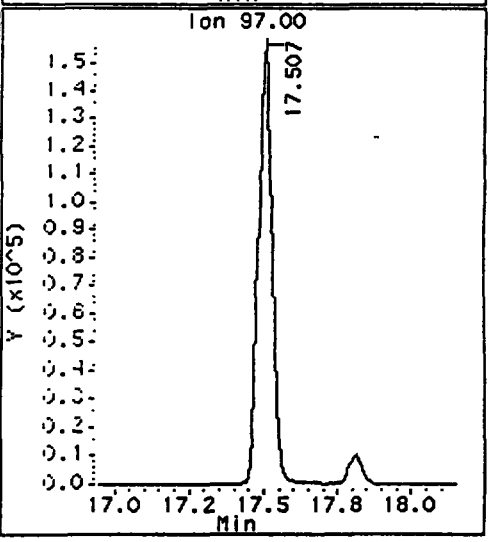


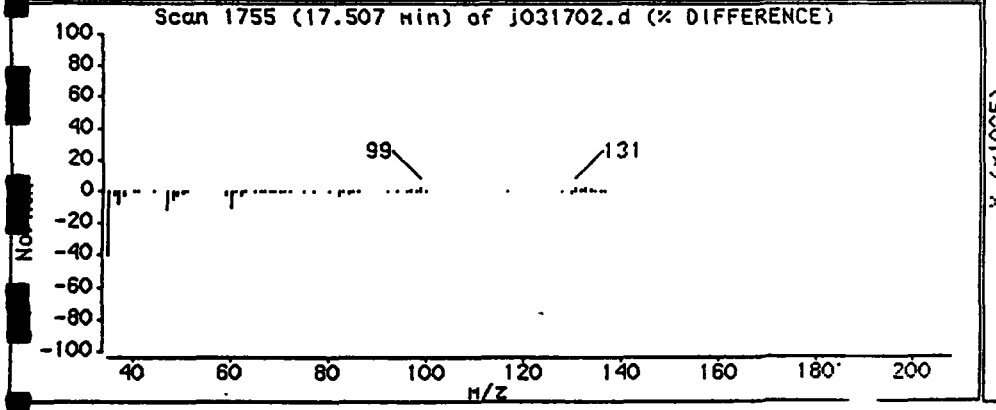












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

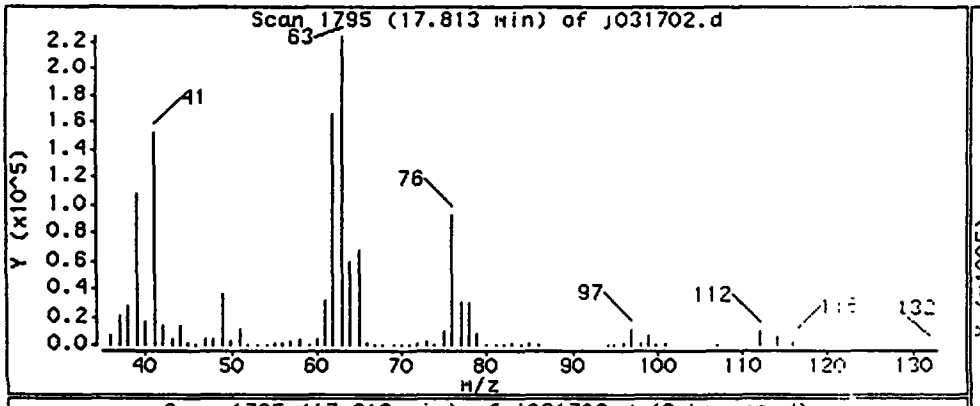
Sample Info: 50mL #296-73 TO14 Std (10ppbv)

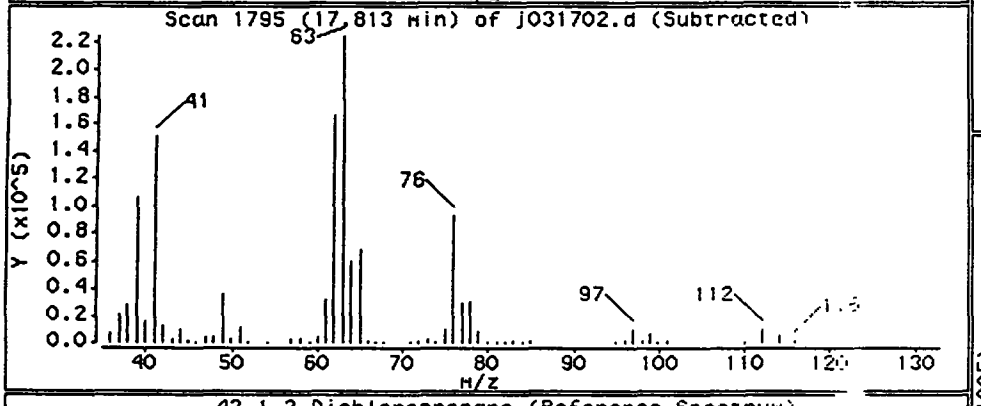
Operator: MH

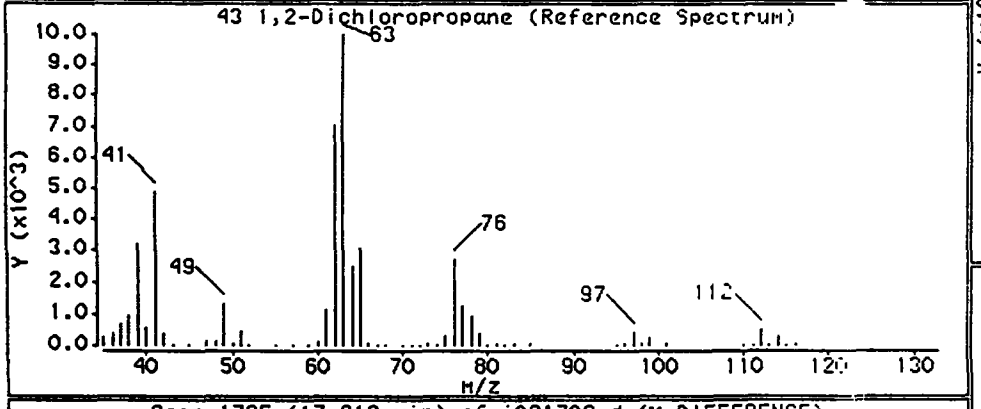
Column phase: RTx-624

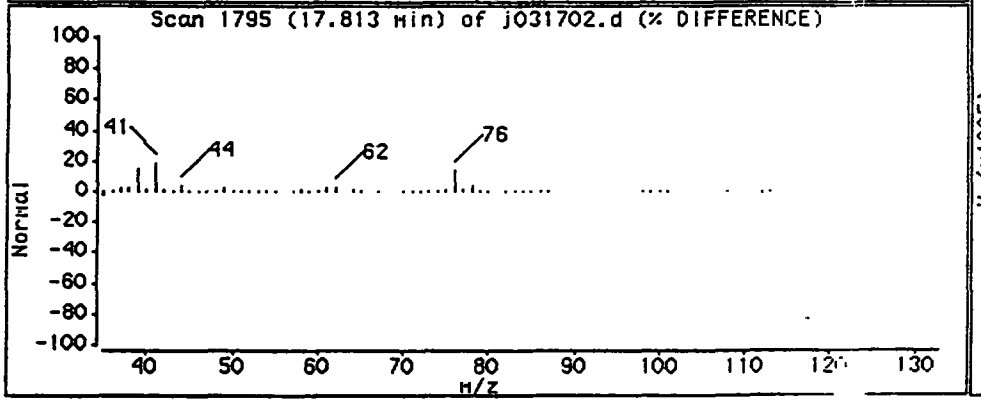
Column Diameter: 0.58

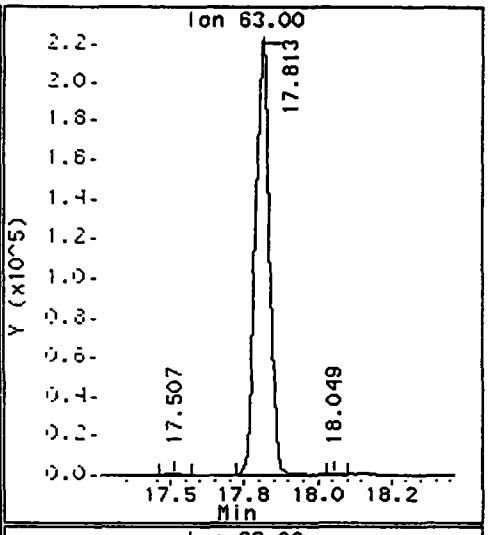
43 1,2-Dichloropropane

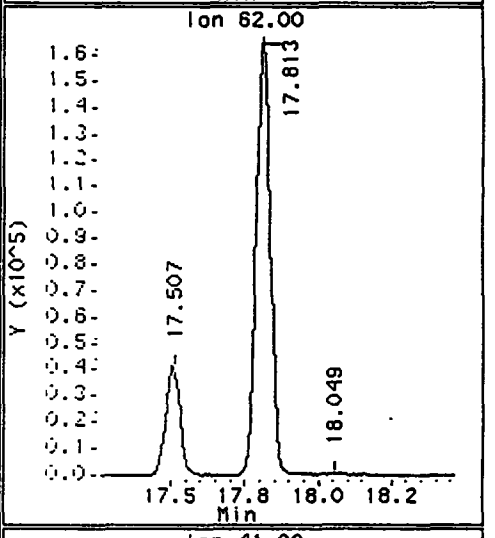


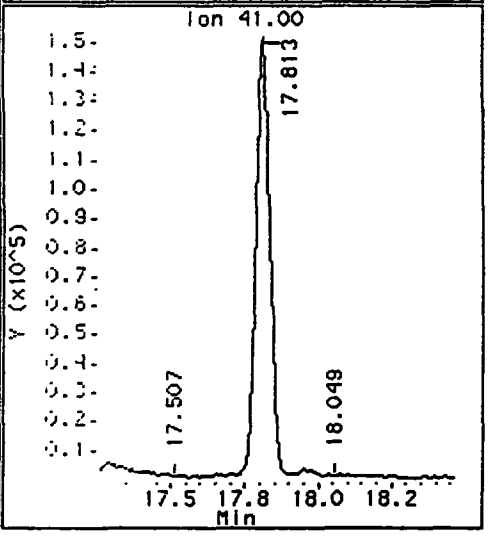












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

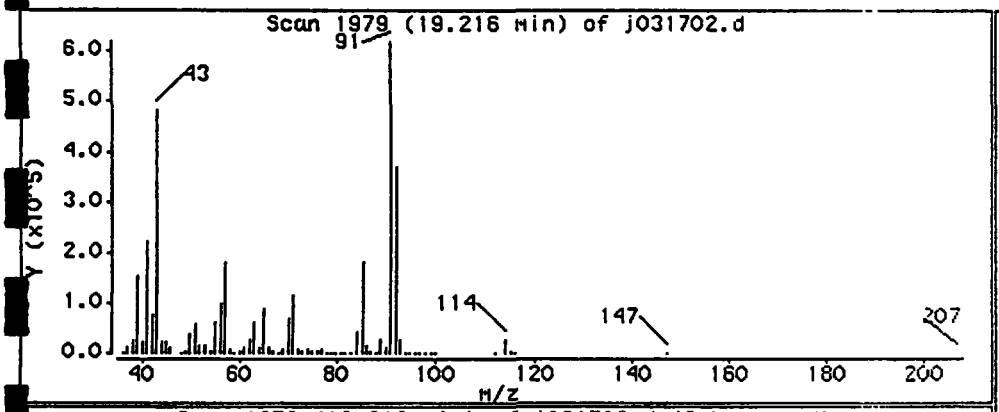
Sample Info: 50mL #296-73 TO14 Std (10ppbv)

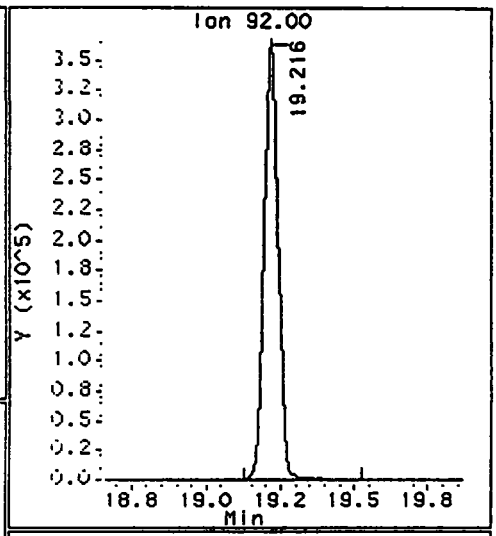
Operator: MH

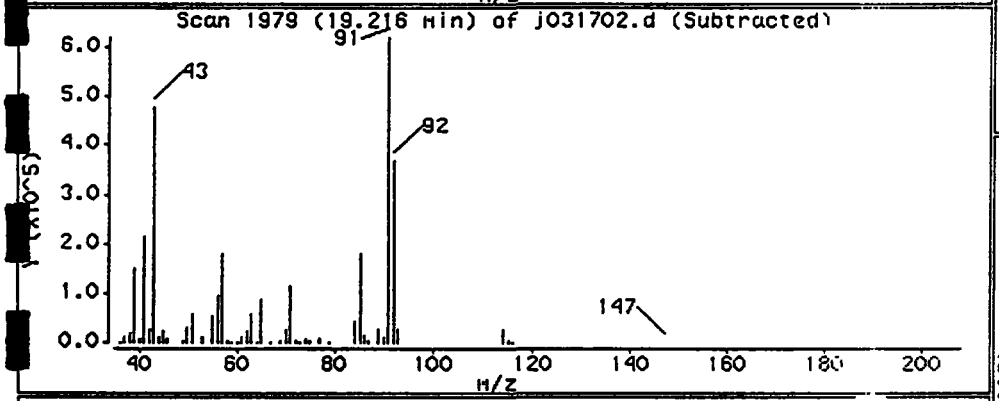
Column phase: RTx-624

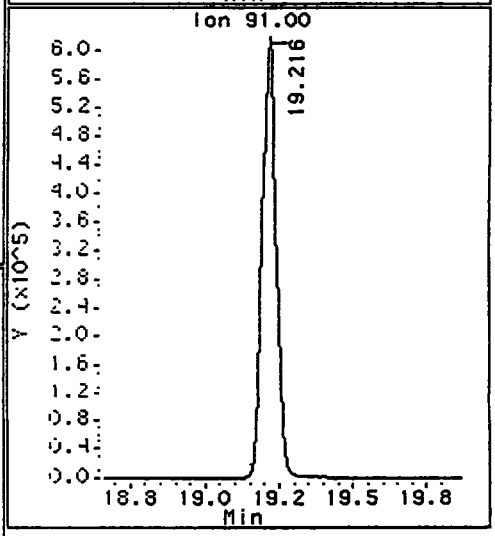
Column diameter: 0.58

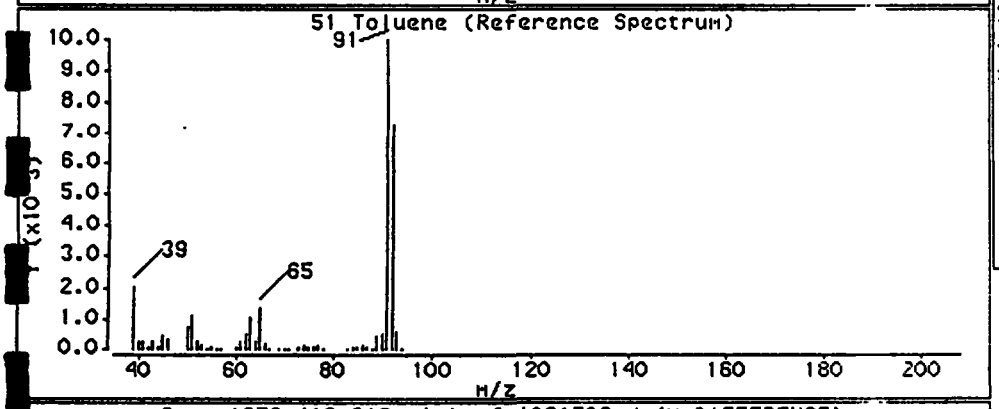
51 Toluene

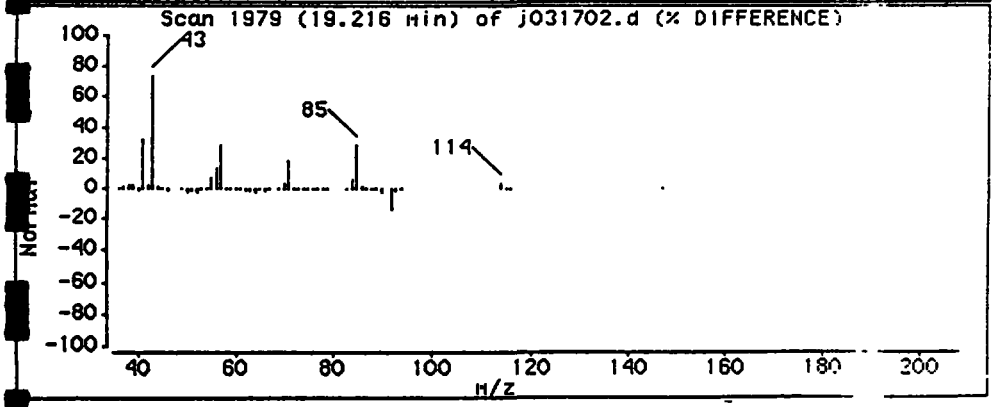






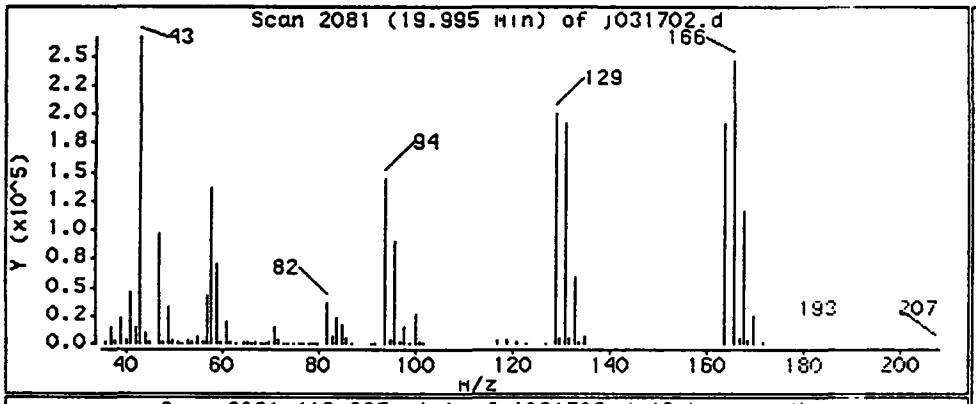


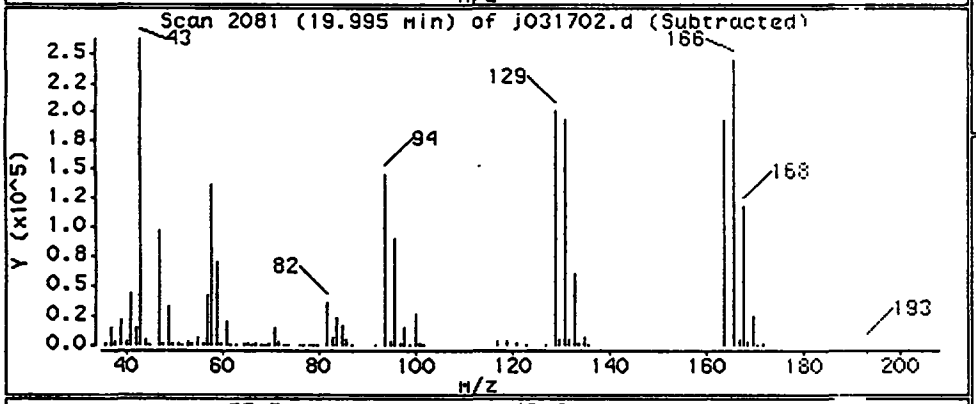


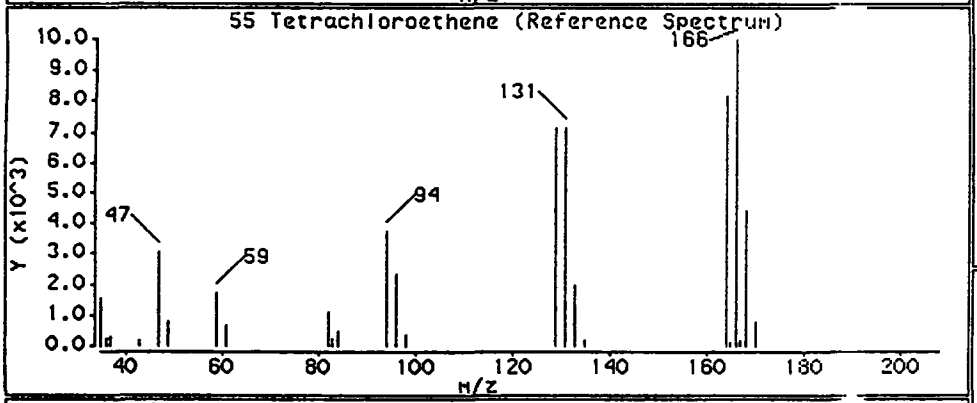


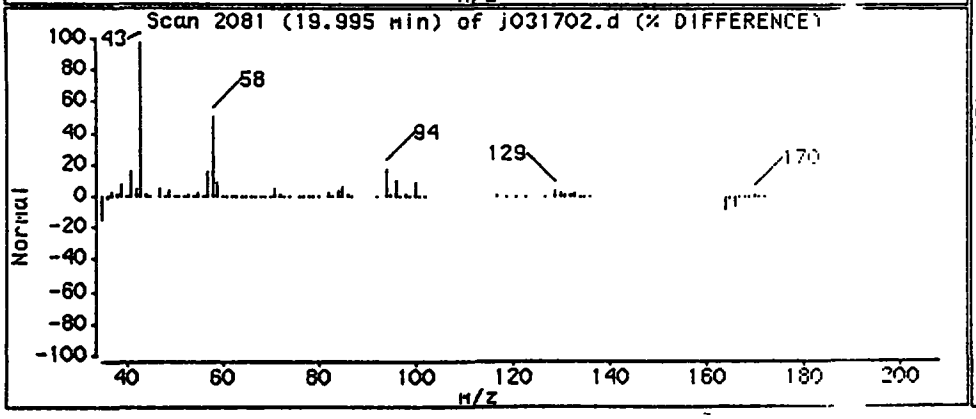
Data File: /chem/msdj.i/j-17mar.b/j031702.d
Date : 17-MAR-1997 08:49
Client ID: Method Spike
Instrument: msdj.i
Sample Info: 50mL #296-73 T014 Std (10ppbv)
Operator: MH
Column phase: RTx-624
Column diameter: 0.58

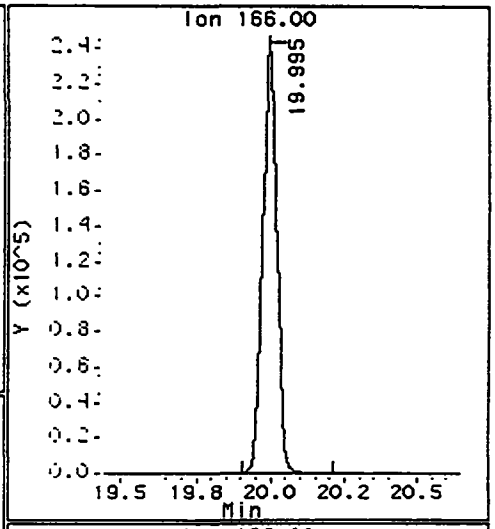
55 Tetrachloroethene

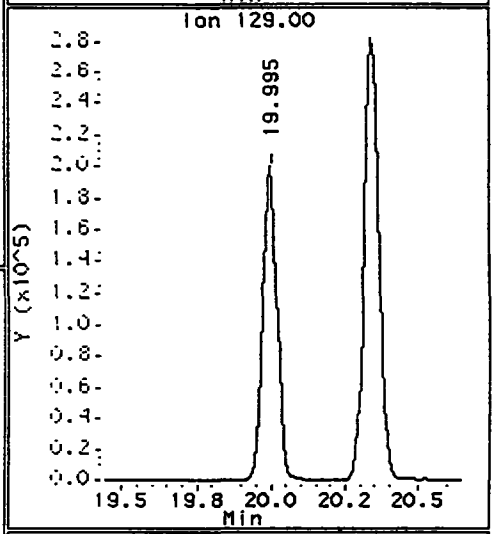


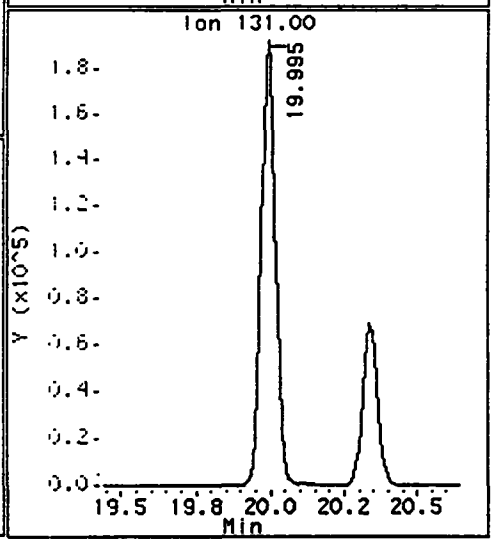












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

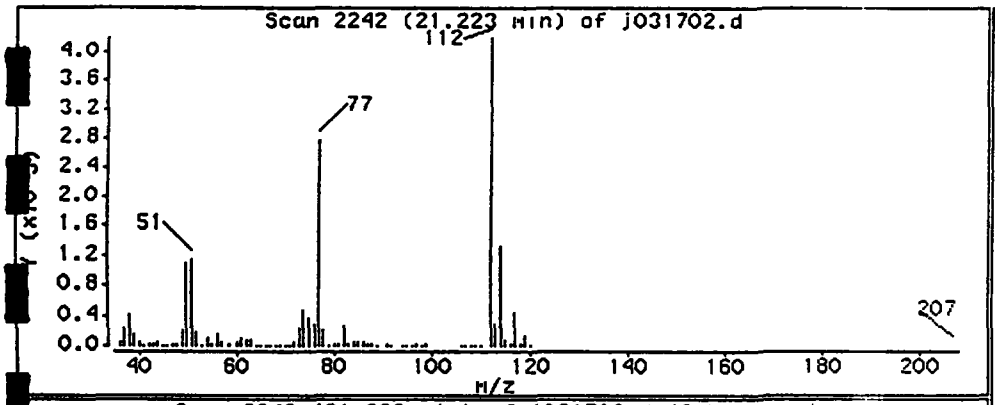
Sample Info: 50mL #296-73 TO14 Std (10ppbv)

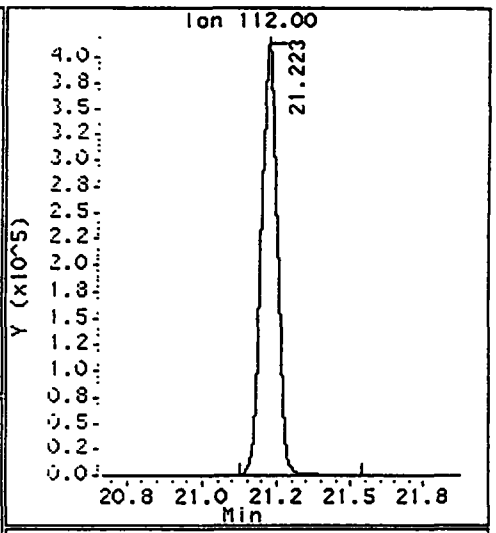
Operator: MH

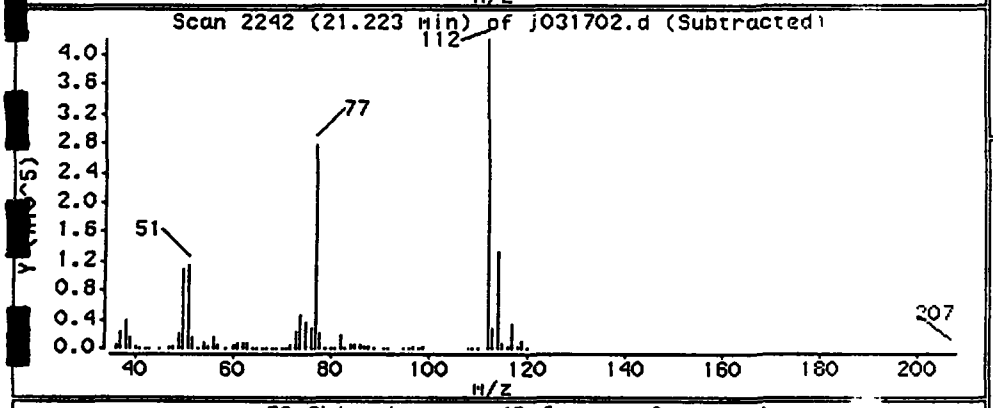
Column phase: RTx-624

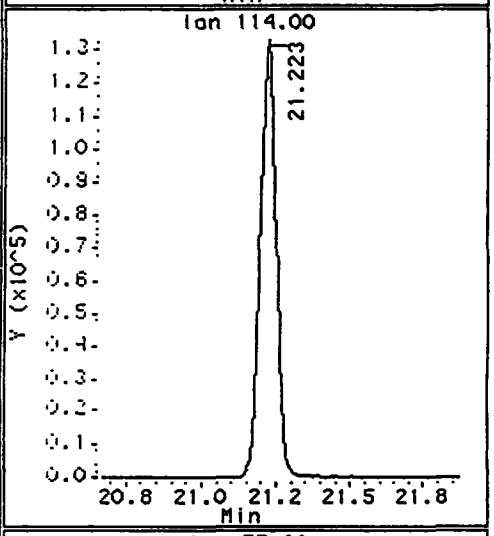
Column diameter: 0.58

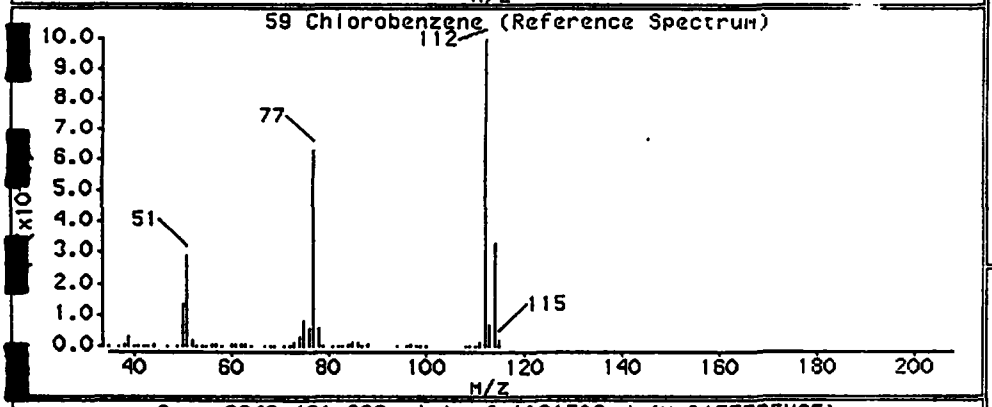
59 Chlorobenzene

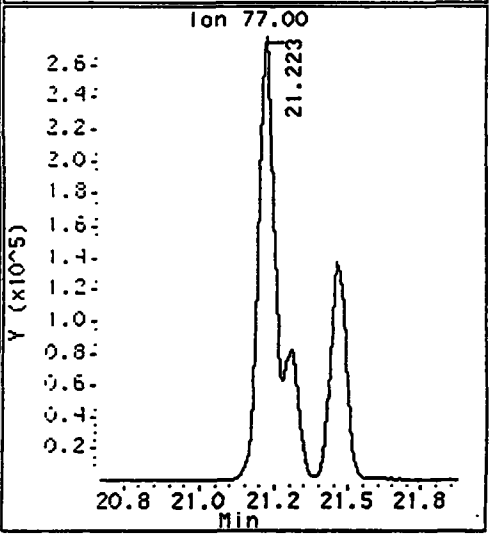


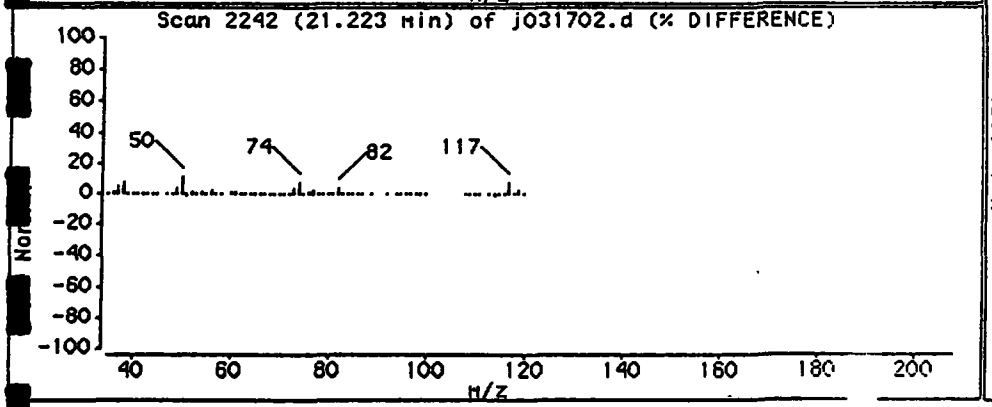












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

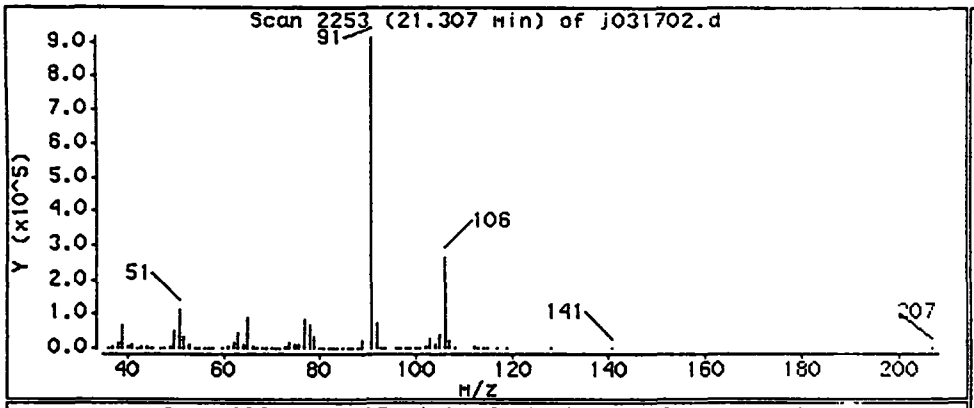
Sample Info: 50mL #296-73 T014 Std (10ppbv)

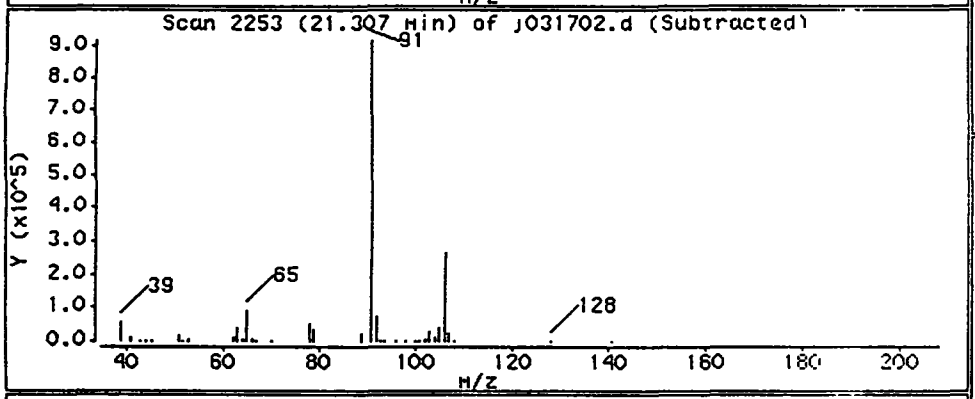
Operator : MH

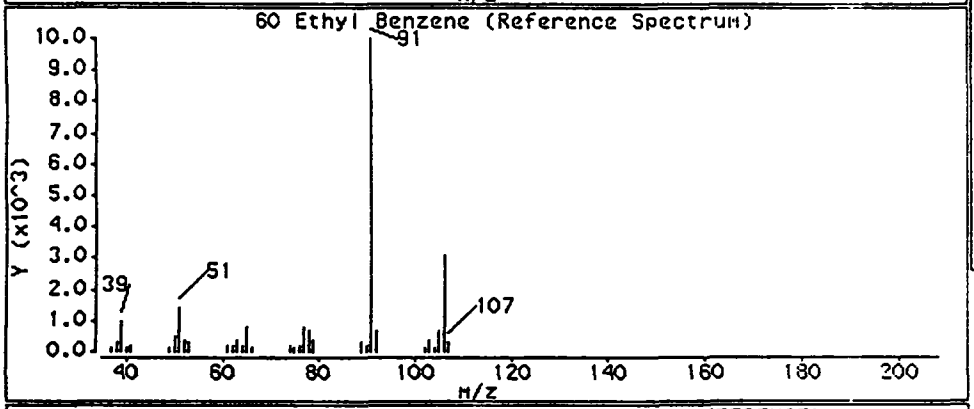
Column phase: RTx-624

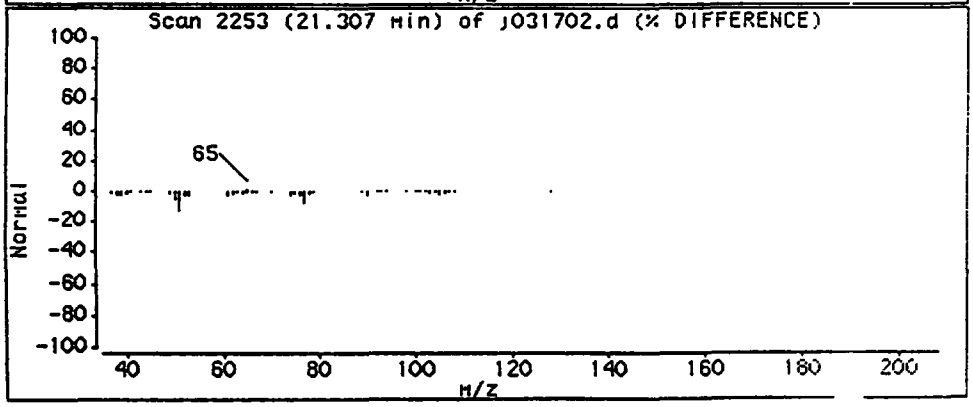
Column diameter: 0.58

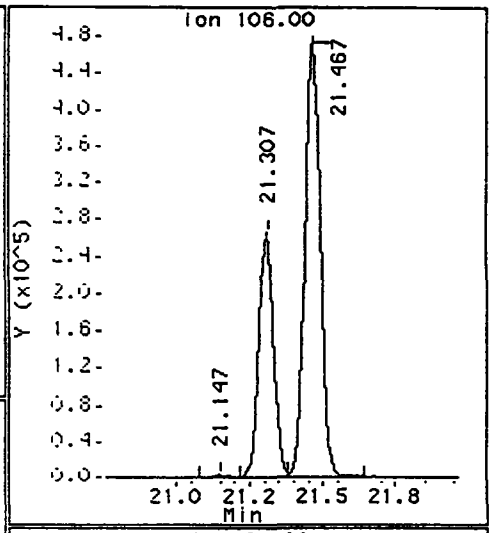
60 Ethyl Benzene

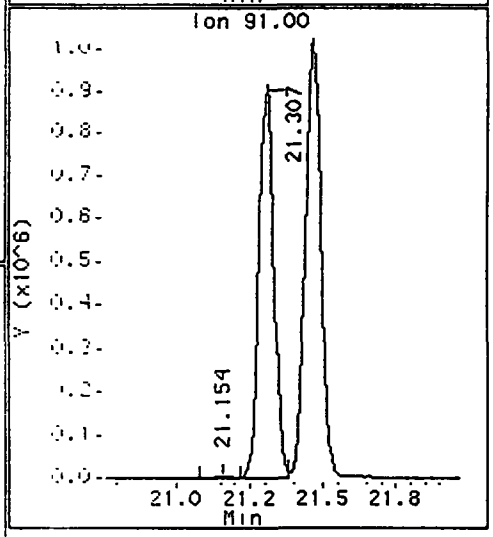












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

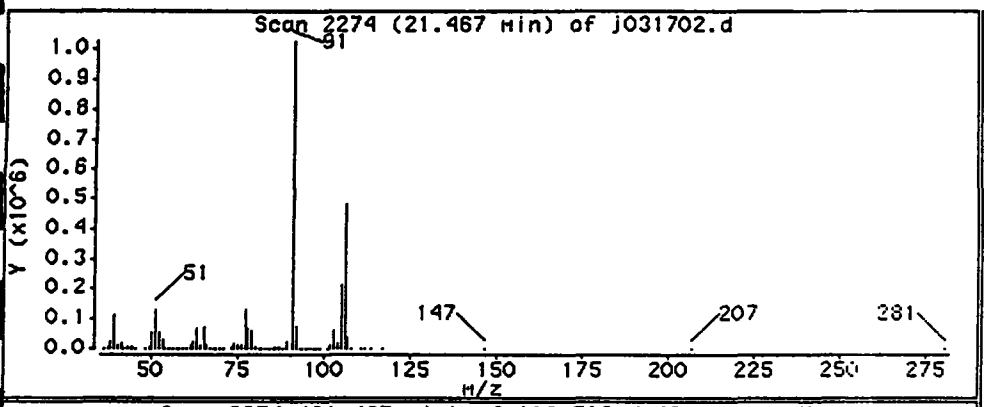
Sample Info: 50mL #296-73 T014 Std (10ppbv)

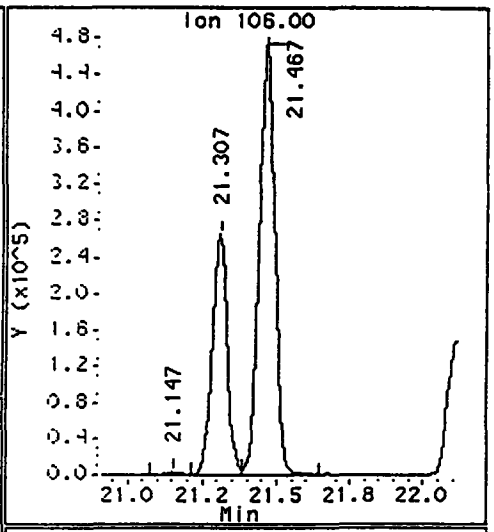
Operator: MH

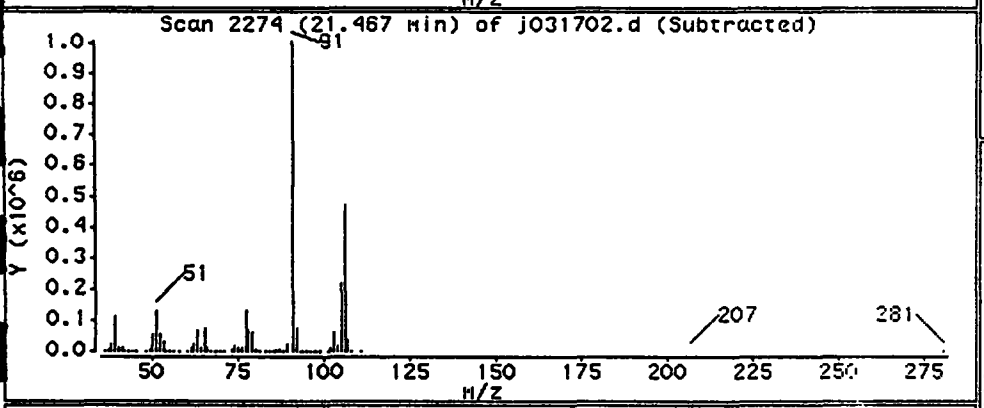
Column phase: RTx-624

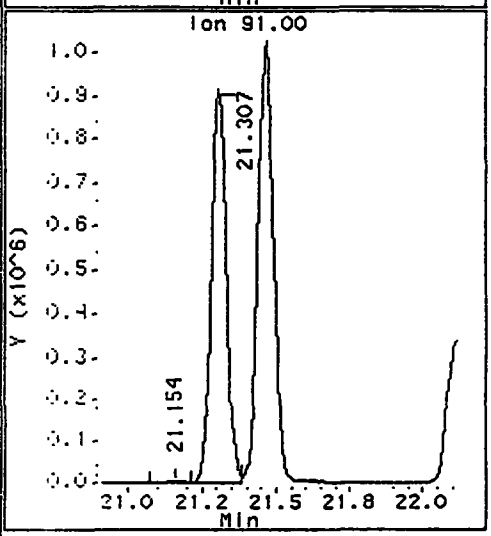
Column Diameter: 0.58

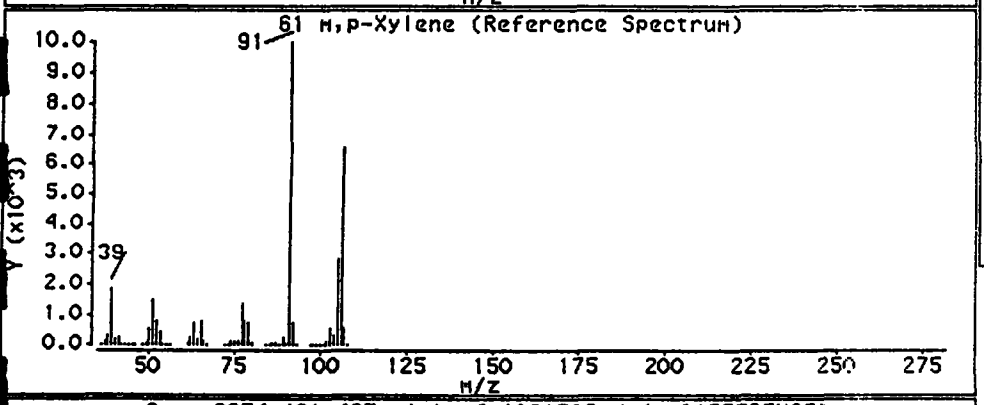
61 m,p-Xylene

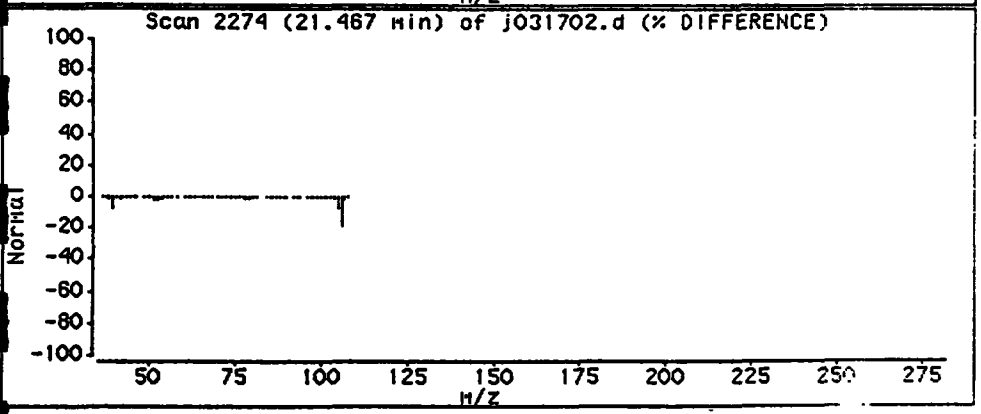












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

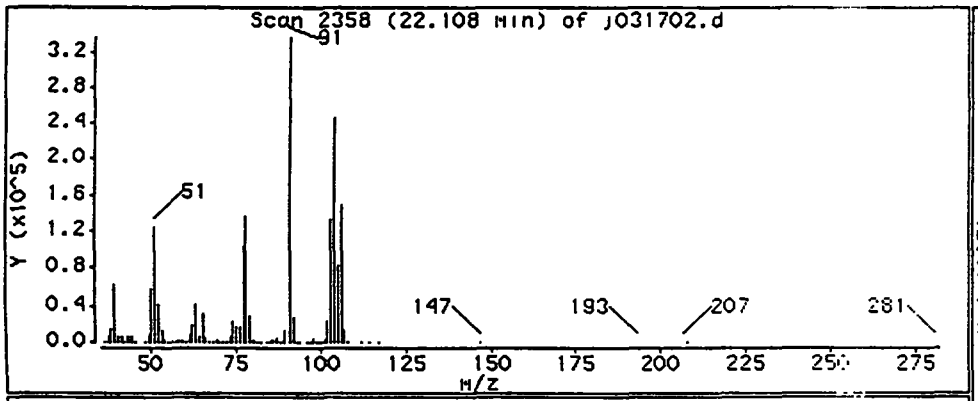
Sample Info: 50mL #296-73 T014 Std (10ppbv)

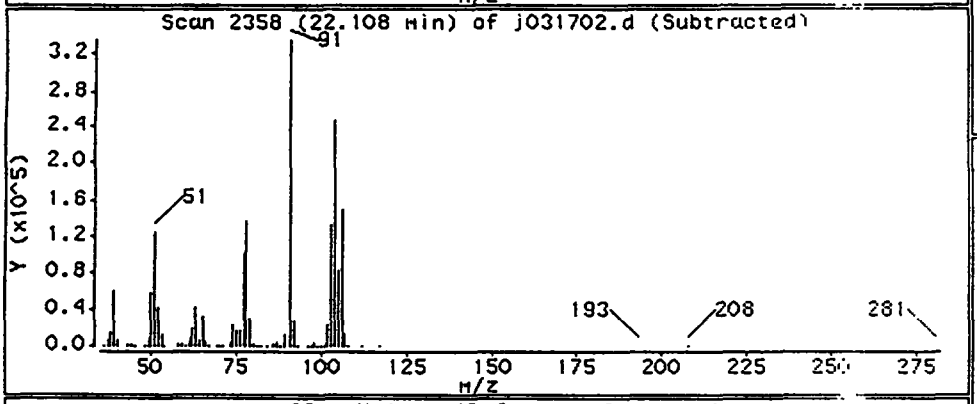
Operator: MH

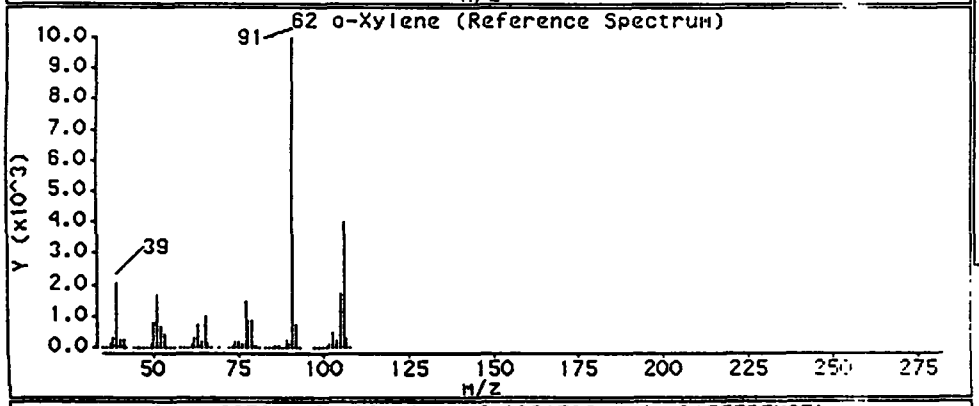
Column phase: RTx-624

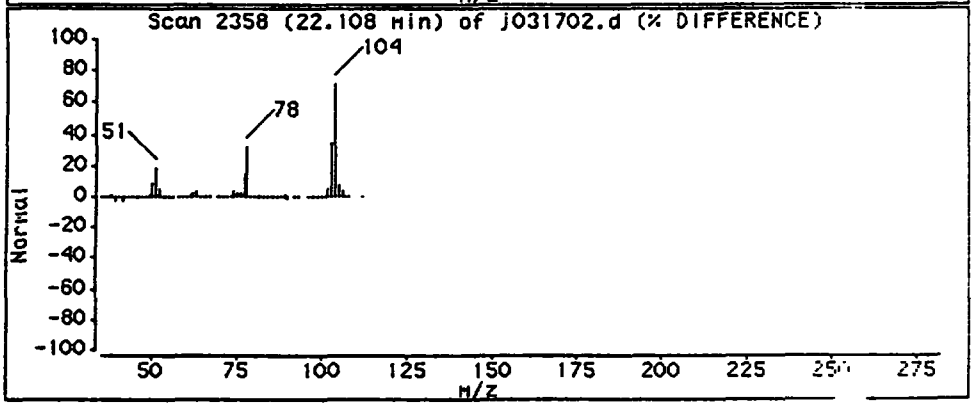
Column diameter: 0.58

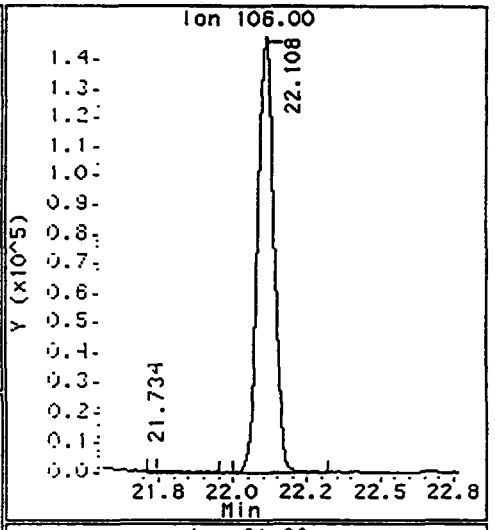
62 o-Xylene

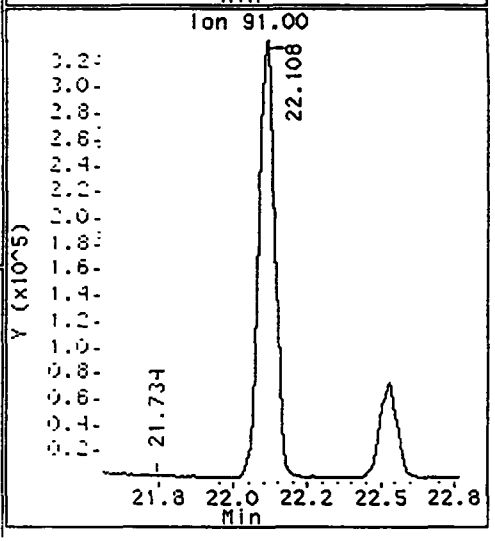












Data File: /chem/msdj.i/j-17mar.b/j031702.d

Date : 17-MAR-1997 08:49

Client ID: Method Spike

Instrument: msdj.i

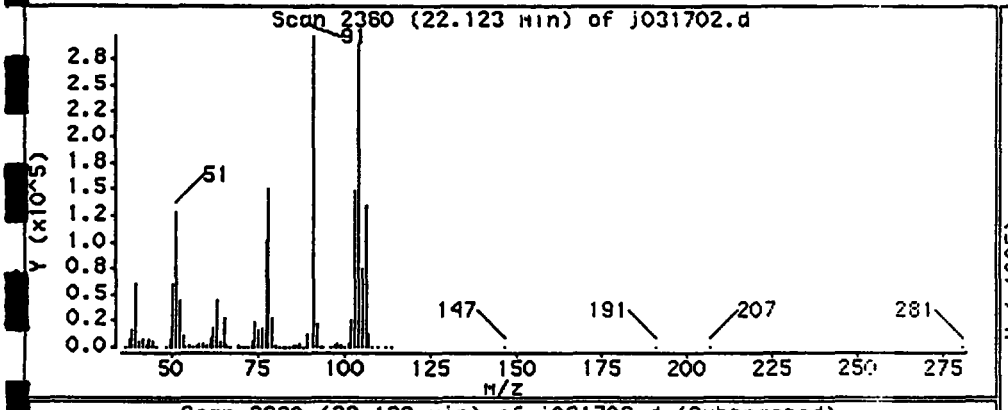
Sample Info: 50mL #296-73 TO14 Std (10ppbv)

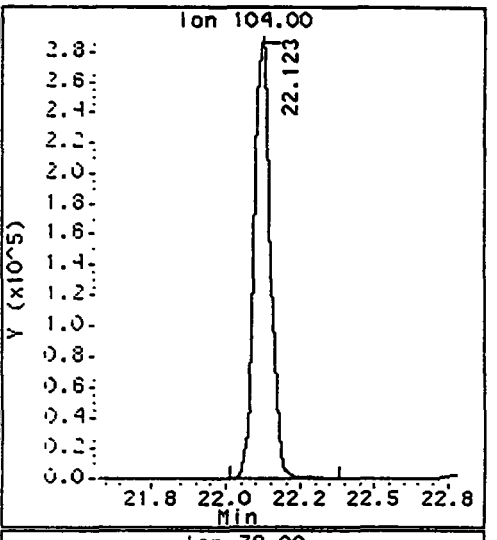
Operator: MH

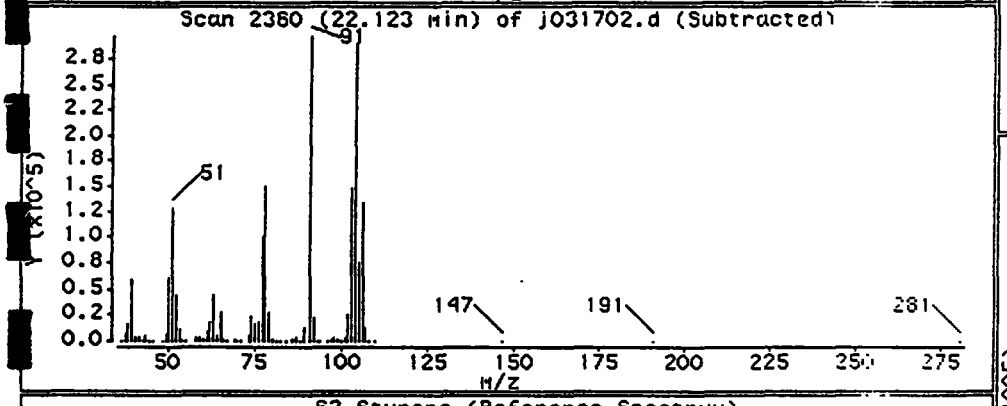
Column phase: RTx-624

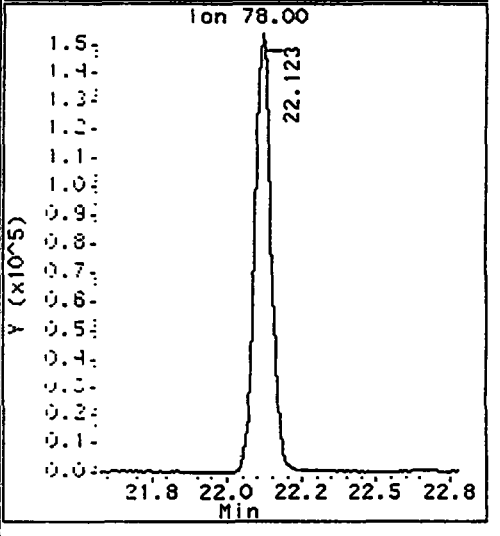
Column diameter: 0.58

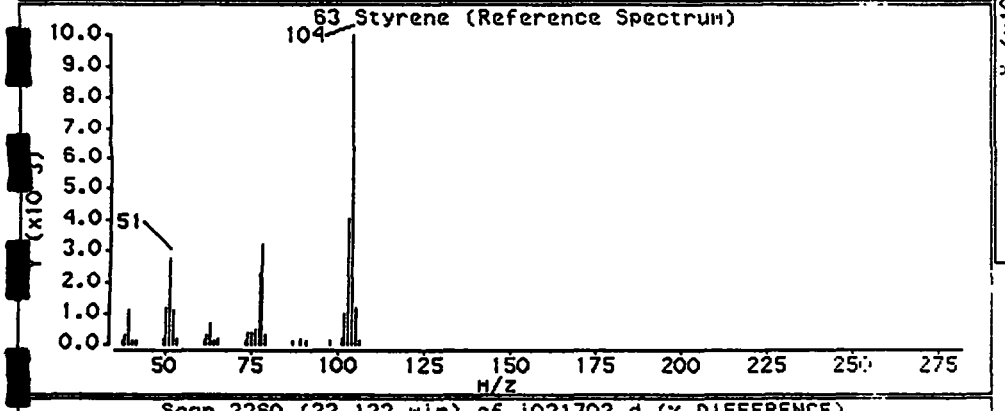
63 Styrene

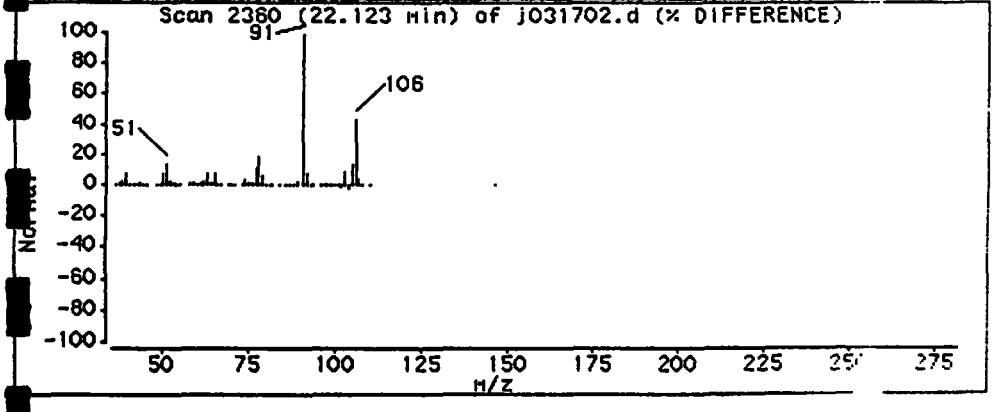








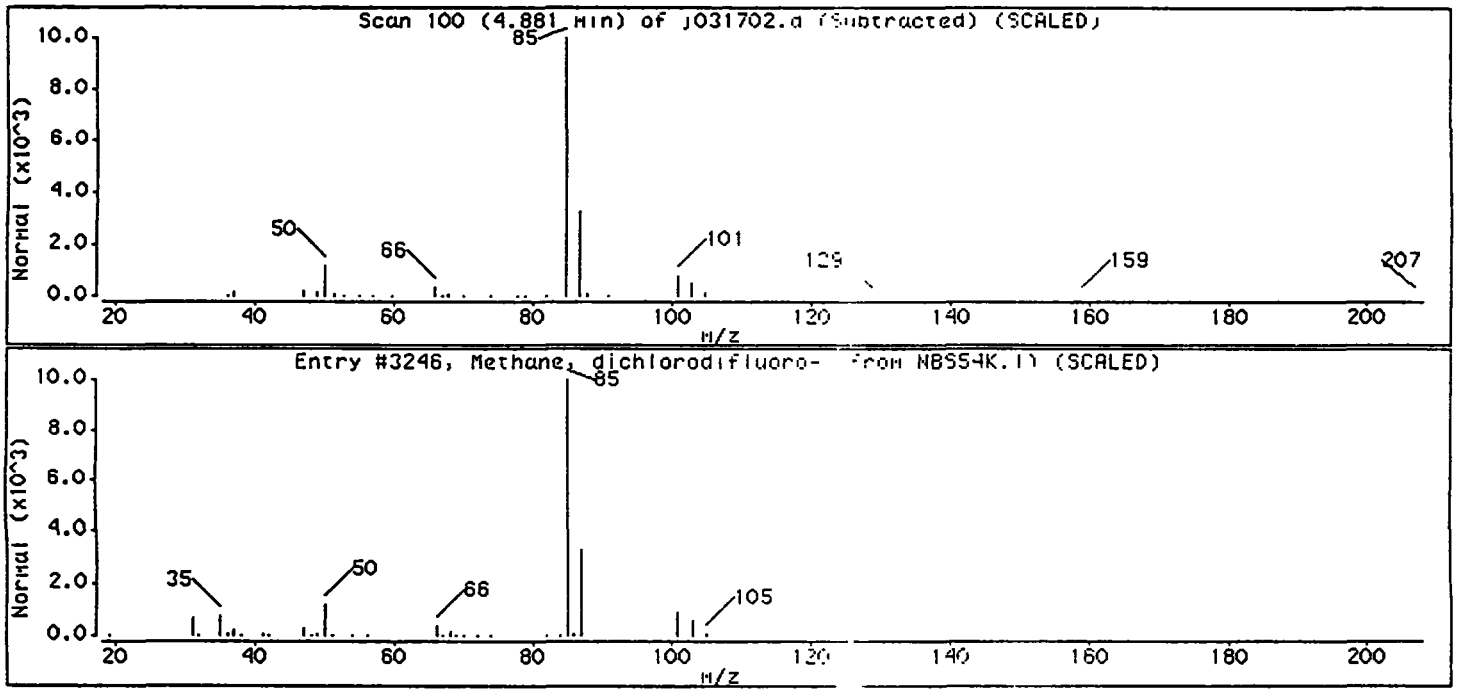




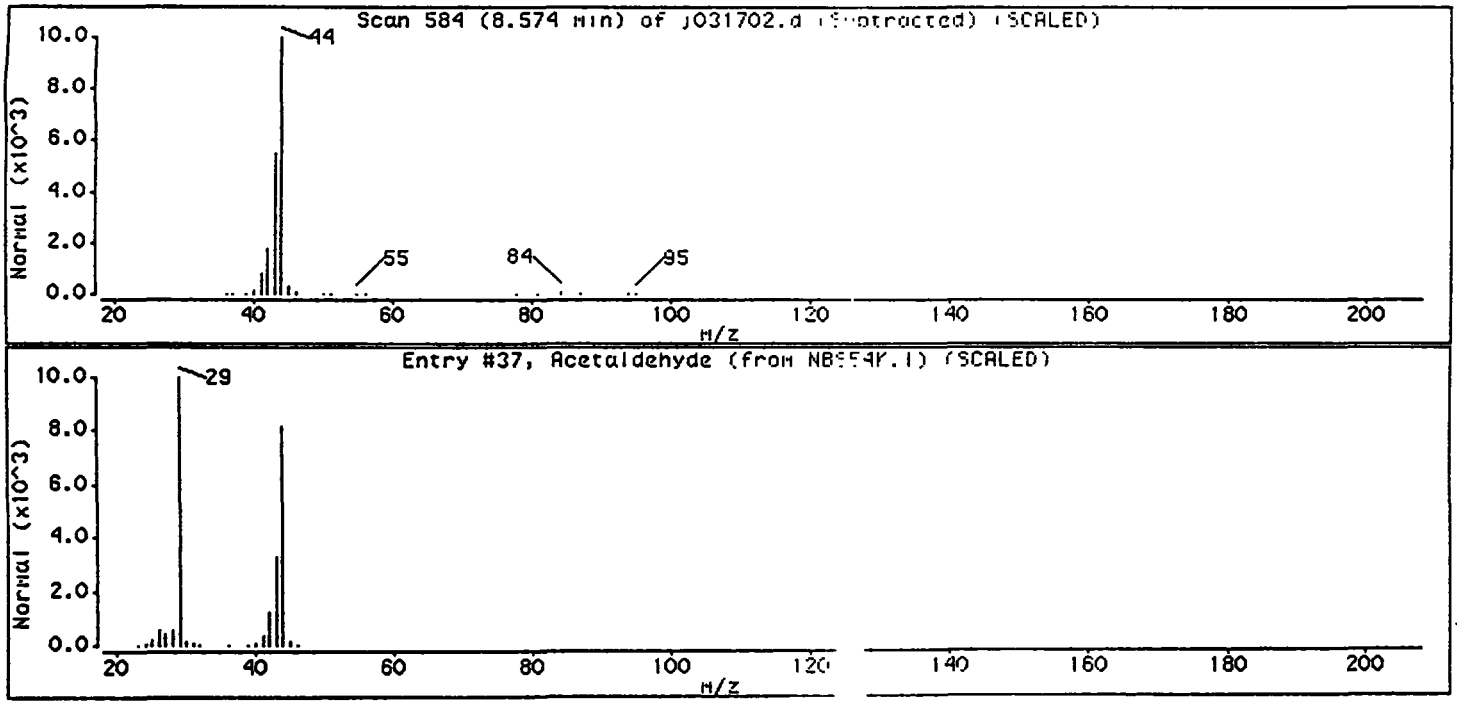
Data File: /chem/msdj.i/j-17mar.b/j031702.d
Date : 17-MAR-1997 08:49
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Methane, dichlorodifluoro-	75-71-8	NBS54K.I	3246	83

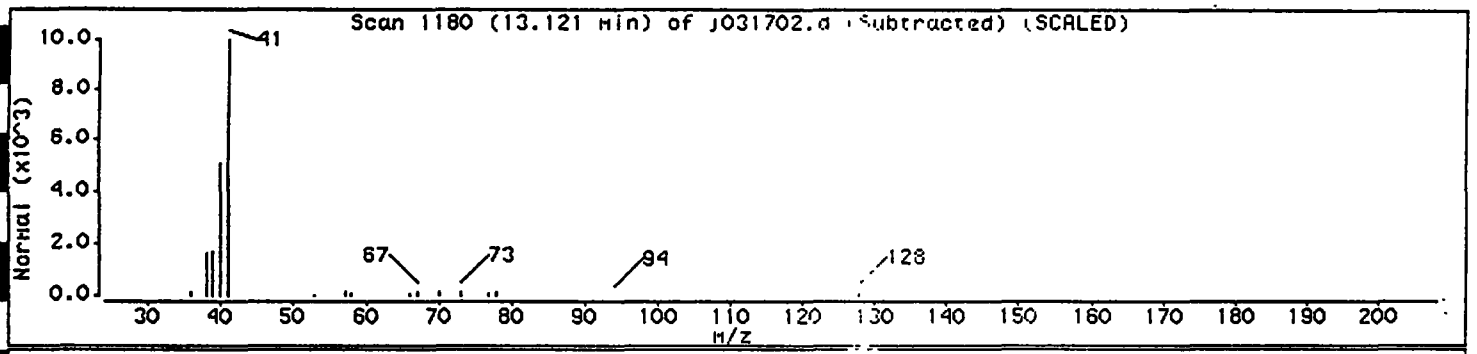


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetaldehyde	75-07-0	NBS54K.I	37	86

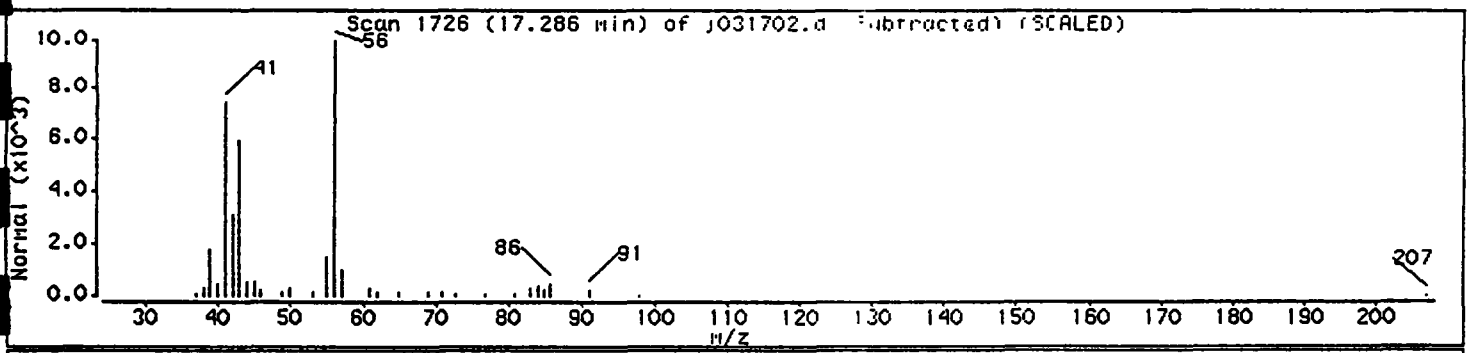


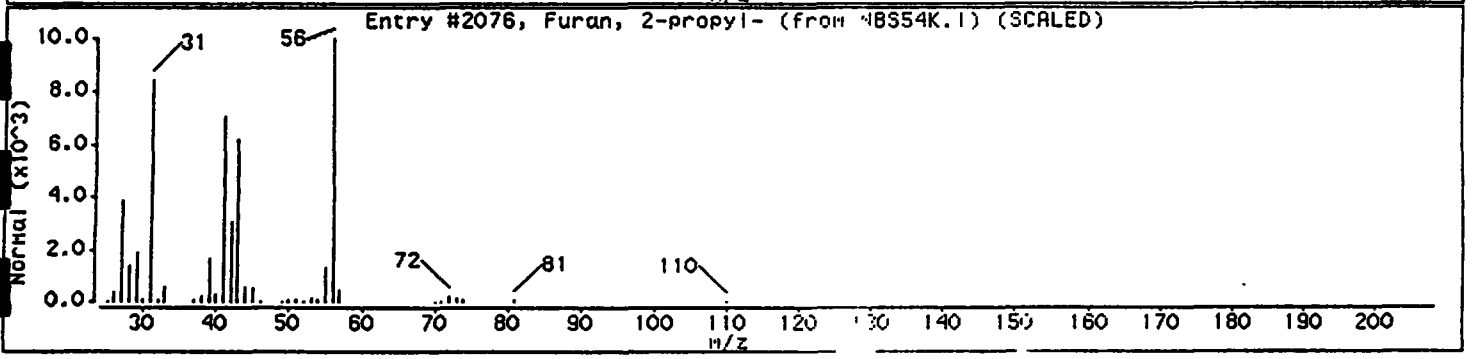
Data File: /chem/msdj.i/j-17mar.b/j031702.d
Date : 17-MAR-1997 08:49
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Unknown			0	0



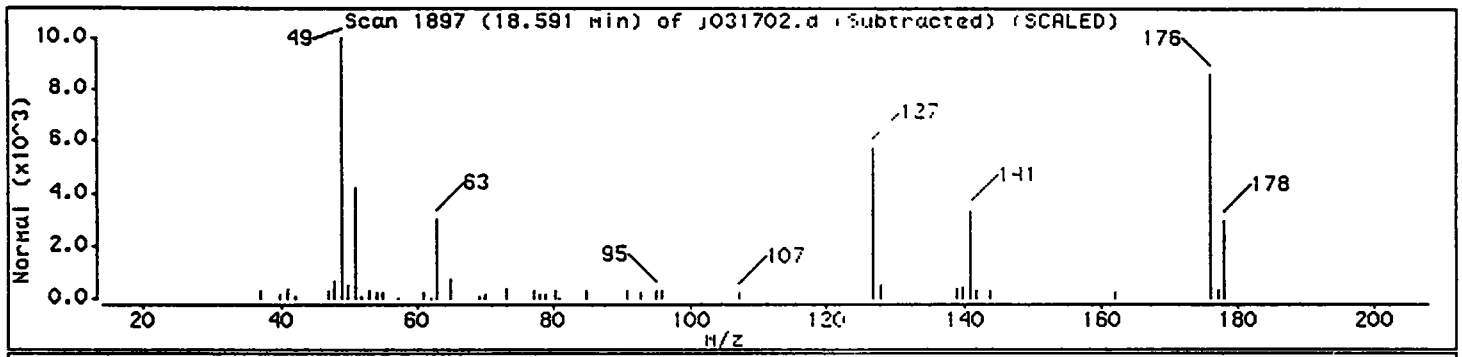
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Furan, 2-propyl-	4229-91-8	NBS54K.I	2076	50



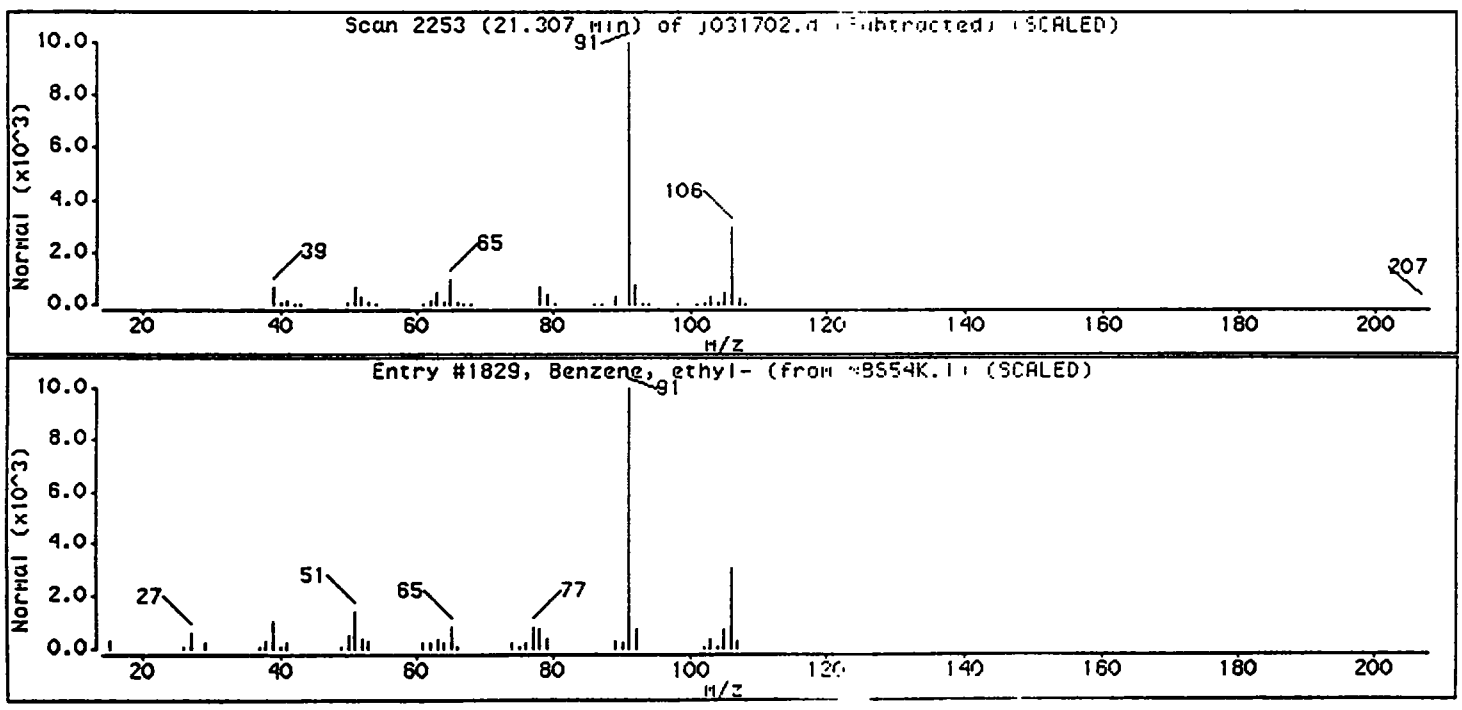


Data File: /chem/msdj.i/j-17mar.b/j031702.d
Date : 17-MAR-1997 08:49
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Unknown			0	0

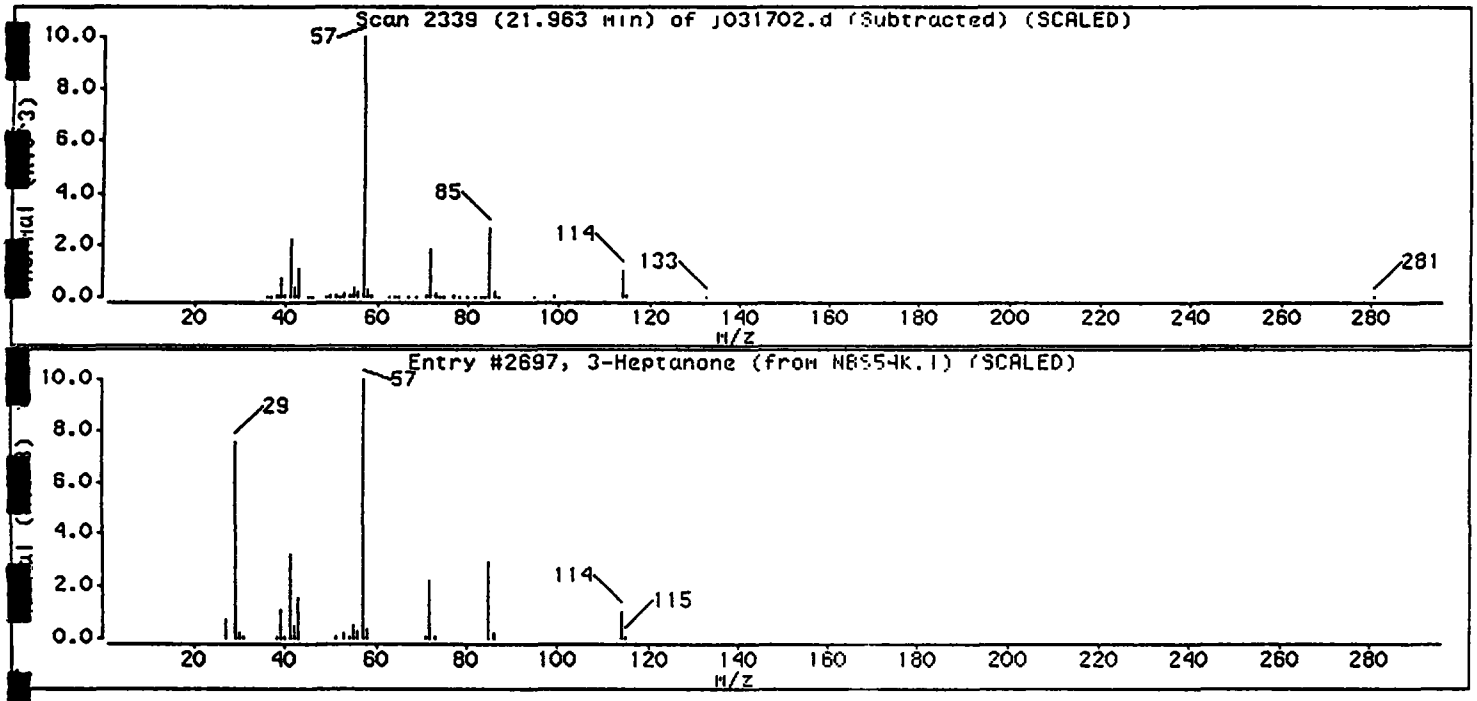


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, ethyl-	100-41-4	NBS54K.I	1829	64

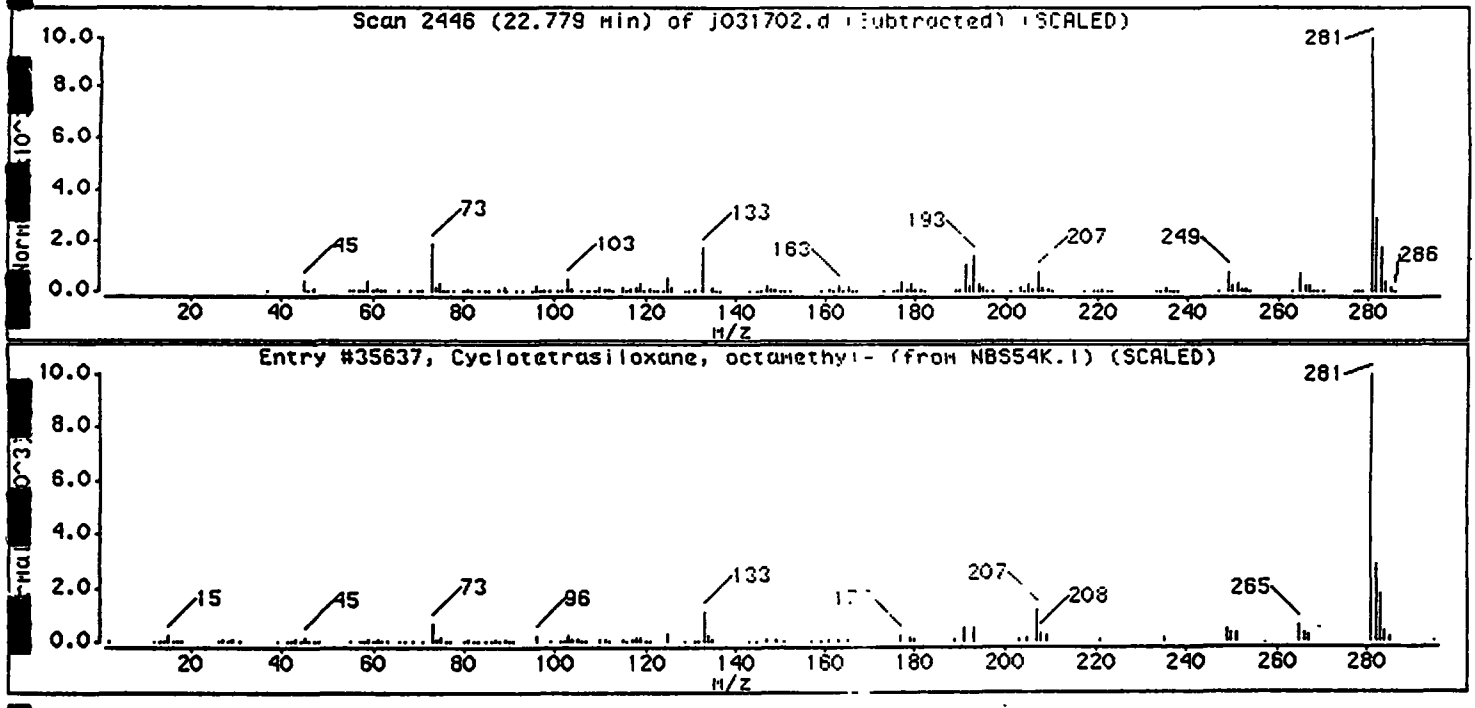


Data File: /chem/nsdj.i/j-17mar.b/j031702.d
Date : 17-MAR-1997 08:49
Instrument: nsdj.i
Client ID: Method Spike
Column phase: RTx-624 Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
3-Heptanone	106-35-4	NBS54K.I	2697	90

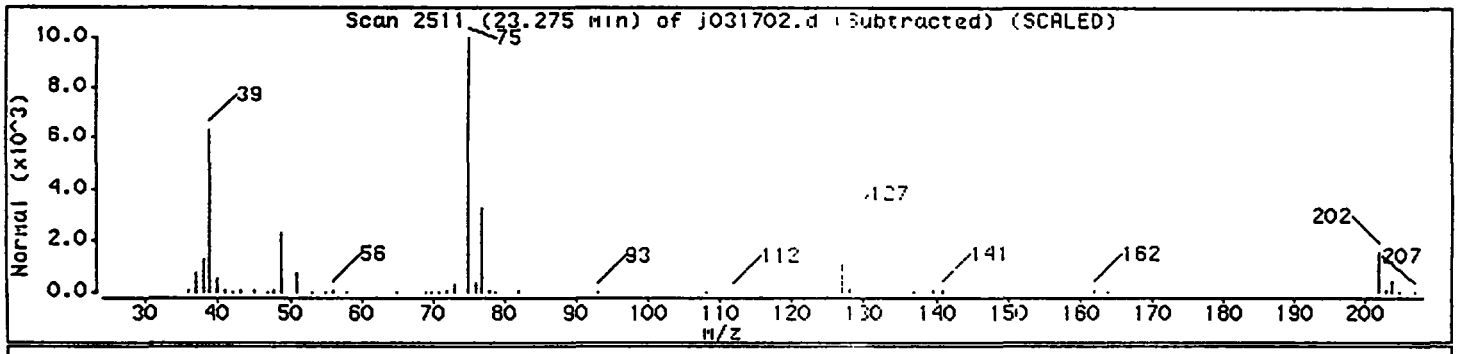


Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Cyclotetrasiloxane, octamethyl-	556-67-2	NBS54K.I	35637	78

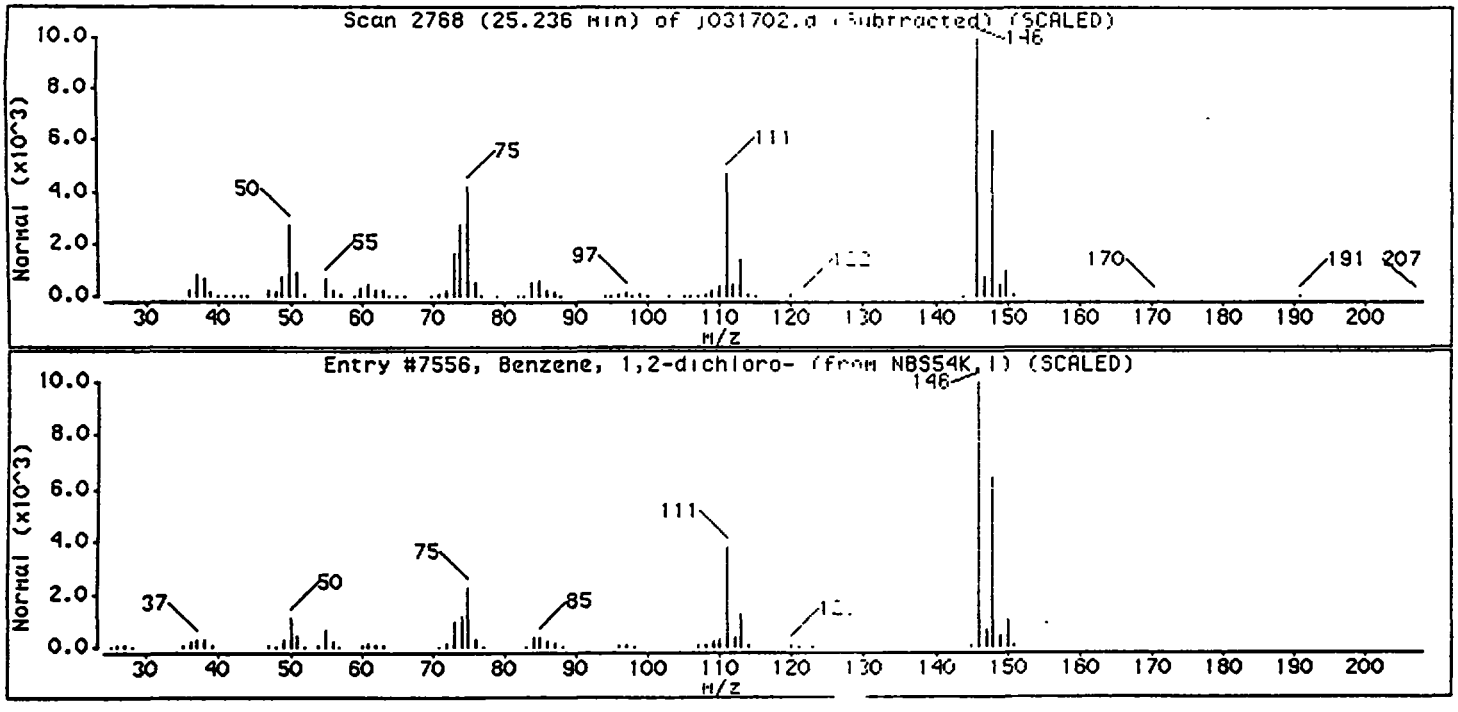


Data File: /chem/msdj.i/j-17mar.b/j031702.d
Date : 17-MAR-1997 08:49
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Unknown			0	0



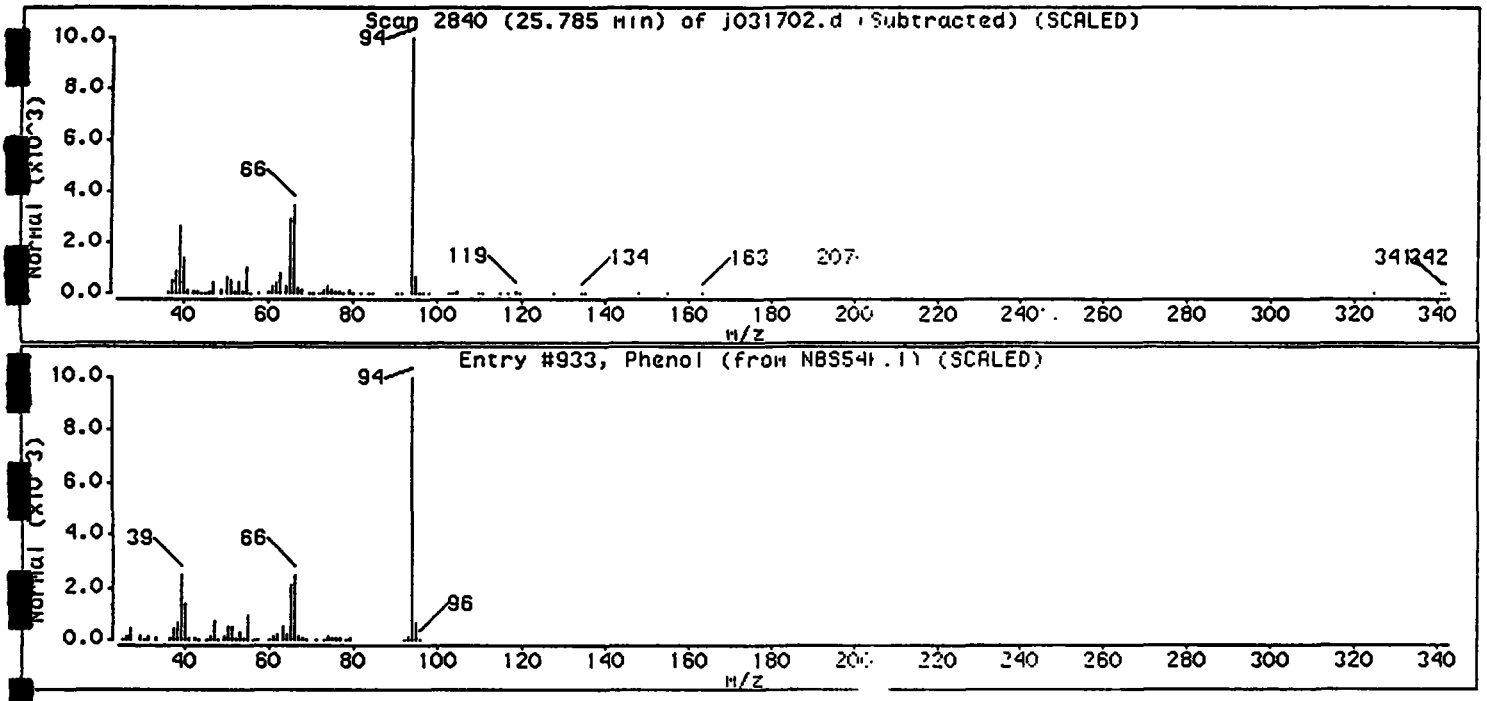
Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Benzene, 1,2-dichloro-	95-50-1	NBS54K.1	7556	97



Data File: /chem/msdj.i/j-17mar.b/j031702.d
Date : 17-MAR-1997 08:49
Instrument: msdj.i
Client ID: Method Spike
Column phase: RTx-624

Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Phenol	108-95-2	NBS54K.I	933	91



Data File: /chem/msdj.i/j-09jan.b/j010903.d
Report Date: 09-Jan-1997 09:13

Air Toxics Limited

Data file : /chem/msdj.i/j-09jan.b/j010903.d
Lab Smp Id:
Inj Date : 09-JAN-1997 09:07
Operator : FA Inst ID: msdj.i
Smp Info : BFB Tune Check #275-8-25 2.0ul
Misc Info :
Comment :
Method : /chem/msdj.i/j-09jan.b/bfb.m
Meth Date : 09-Jan-1997 09:13 fayala Quant Type: ESTD
Cal Date : Cal File:
Als bottle: 1 QC Sample: BFB
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: all.sub
Target Version: 3.12 Sample Matrix: WATER
Concentration Formula: Uf * Vf * Vi

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
8.019	8.019	0.000	95	65480				100.00
8.019	8.019	0.000	50	11913			15.00- 40.00	18.19
8.019	8.019	0.000	75	29857			30.00- 60.00	45.57
8.019	8.019	0.000	96	4304			5.00- 9.00	6.57
8.019	8.019	0.000	173	0			0.00- 2.00	0.00
8.019	8.019	0.000	174	46610			50.00- 100.00	71.18
8.019	8.019	0.000	175	3256			5.00- 9.00	6.99
8.019	8.019	0.000	176	45104			95.00- 101.00	96.77
8.019	8.019	0.000	177	3143			5.00- 9.00	6.97

Air Toxics Limited

TARGET COMPOUNDS

Client Name: Client SDG: j-09jan
Lab Smp Id:
Sample Location: Sample Point:
Sample Date: Date Received:
Sample Matrix: WATER Quant Type: ESTD
Analysis Type: bfb Level: LOW
Data Type: MS DATA Operator: FA
Misc Info:

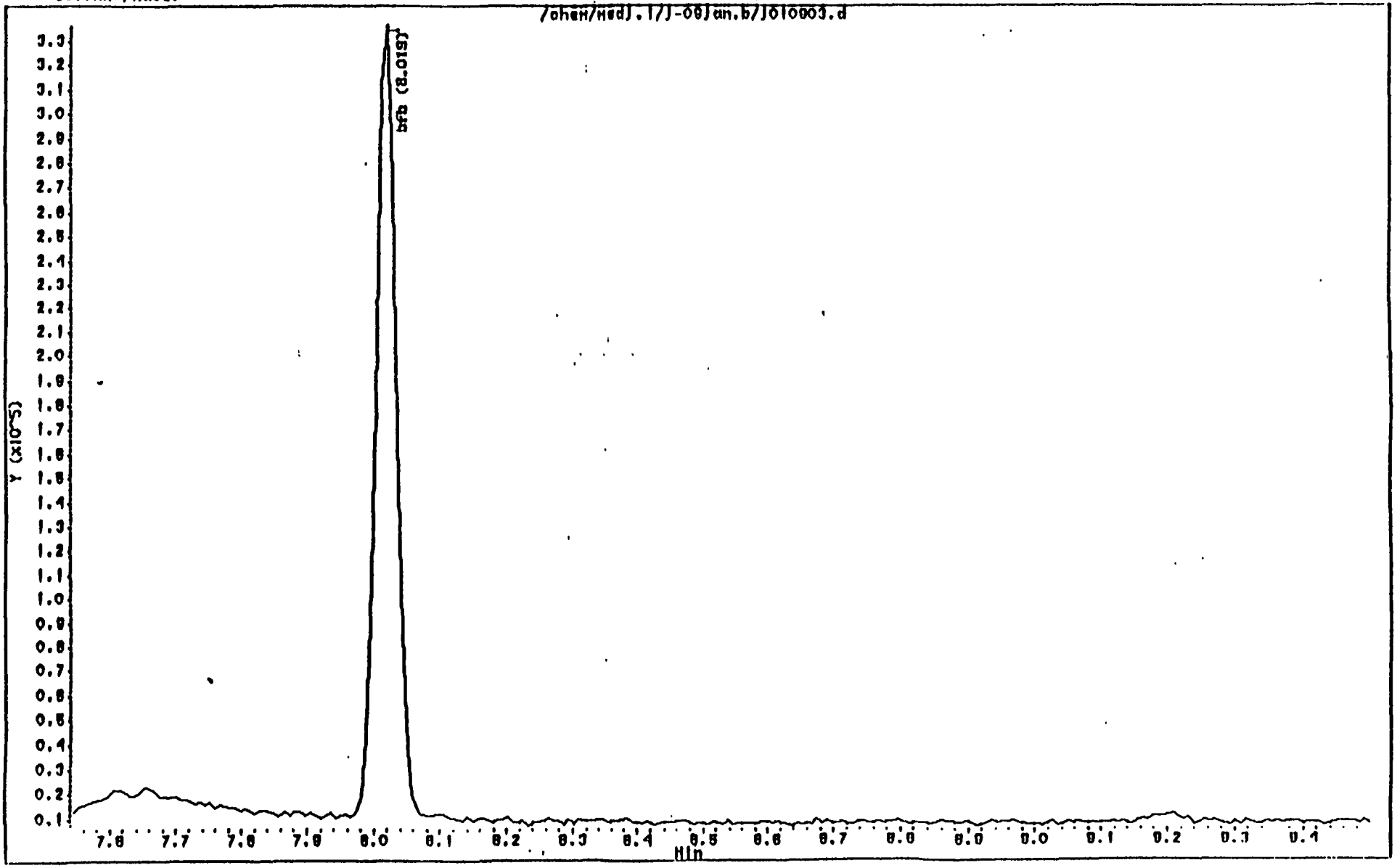
CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
460-00-4	bfb	0.0	

Data File: /ahsH/HsdJ.1/J-09Jan.b/J010003.d
Date : 09-JAN-1997 09:07
Client ID:
Sample Info: BFB Tune Check H275-8-25 2.0ul
Volume Injected (uL): 1.0
Column phase:

Instrument: HsdJ.1

Operator: FA
Column diameter: 2.00

Page 3



Data File: /chem/msdj.i/j-09jan.b/j010903.d

Date : 09-JAN-1997 09:07

Client ID:

Instrument: msdj.i

Sample Info: BFB Tune Check #275-8-25 2.0ul

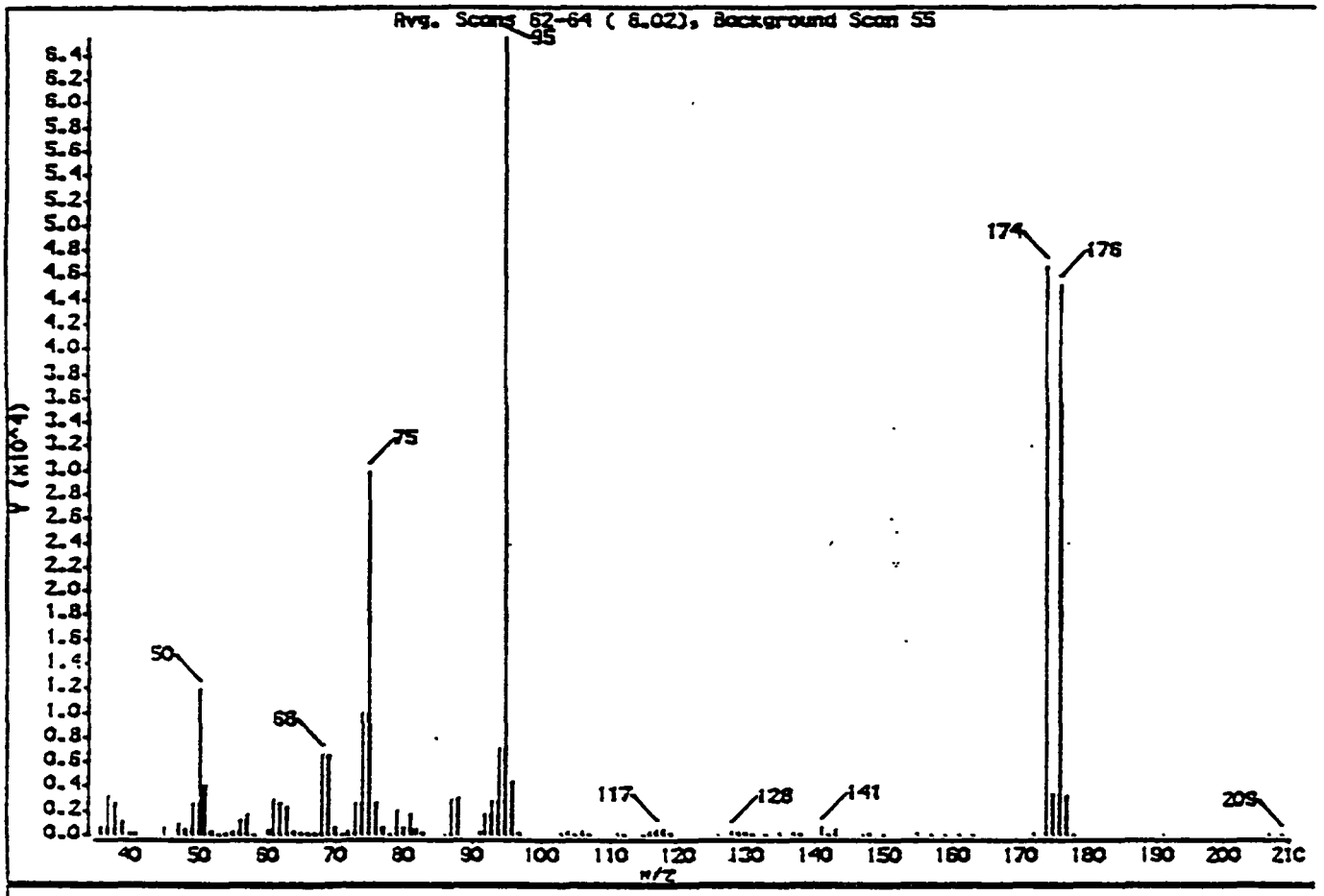
Volume Injected (uL): 1.0

Operator: FR

Column phase:

Column diameter: 2.00

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.19
75	30.00 - 60.00% of mass 95	45.57
96	5.00 - 9.00% of mass 95	5.57
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	71.18
175	5.00 - 9.00% of mass 174	4.97 (6.99)
176	95.00 - 101.00% of mass 174	68.88 (96.77)
177	5.00 - 9.00% of mass 176	4.90 (6.97)

Data File: /chem/msdj.i/j-09jan.b/j010903.d
Date : 09-JAN-1997 09:07
Client ID:
Instrument: msdj.i
Sample Info: BFB Tune Check 8275-8-25 2.0ul
Volume Injected (uL): 1.0
Operator: FR
Column phase:
Column diameter: 2.00

Data File: j010903.d
Spectrum : Avg. Scans 62-64 (8.02), Background Scan 55
Largest m/z: 95.00
Number of peaks: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	611	65.00	120	93.00	2842	137.00	117
37.00	3142	66.00	195	94.00	7028	138.00	34
38.00	2627	67.00	154	95.00	65480	141.00	553
39.00	1089	68.00	6822	96.00	4304	142.00	56
40.00	94	69.00	6535	97.00	219	143.00	460
41.00	85	70.00	581	103.00	136	147.00	36
45.00	626	71.00	67	104.00	280	148.00	119
47.00	977	72.00	345	105.00	70	150.00	38
48.00	523	73.00	2521	106.00	230	155.00	121
49.00	2623	74.00	9952	107.00	34	157.00	58
50.00	11913	75.00	29832	111.00	152	159.00	55
51.00	4038	76.00	2833	112.00	43	161.00	38
52.00	279	77.00	551	115.00	43	163.00	35
53.00	50	78.00	64	116.00	283	172.00	218
54.00	83	79.00	1508	117.00	398	174.00	46608
55.00	250	80.00	551	118.00	382	175.00	3258
56.00	1167	81.00	1716	119.00	90	176.00	45104
57.00	1592	82.00	421	120.00	73	177.00	3143
58.00	2	83.00	155	122.00	261	178.00	45
60.00	477	86.00	52	125.00	108	191.00	75
61.00	2823	87.00	2534	130.00	201	207.00	37
62.00	2598	88.00	3028	131.00	45	208.00	46
63.00	2211	91.00	377	132.00	36		
64.00	255	92.00	1552	133.00	123		

Data File: /chem/msdj.i/j-17mar.b/j031701.d
Report Date: 17-Mar-1997 08:11

Air Toxics Limited

Data file : /chem/msdj.i/j-17mar.b/j031701.d
Lab Smp Id:
Client Smp ID: BFB
Inj Date : 17-MAR-97 08:17
Operator : MH
Inst ID: msdj.i
Smp Info : BFB Tune Check #275-8-25 BFB Tune Check
Misc Info :
Comment :
Method : /chem/msdj.i/j-17mar.b/bfb.m
Meth Date : 17-Mar-1997 08:11
Quant Type: ESTD
Cal Date :
Cal File:
Vials bottle: 1
QC Sample: BFB
Soil Factor: 1.000
Integrator: HP RTE
Compound Sublist: all.sub
Target Version: 3.12
Sample Matrix: WATER
Concentration Formula: Uf * Vf * Vi

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor
Vi	1.000	Injection Volume

RT	EXP RT	DLT RT	MASS	RESPONSE	CONCENTRATIONS ON-COL (ug/L)	CONCENTRATIONS FINAL (ug/L)	TARGET RANGE	RATIO
1 bfb						CAS #: 460-00-4		
7.713	8.019	-0.306	95	111846				100.00
7.713	8.019	-0.306	50	20383			15.00- 40.00	18.22
7.713	8.019	-0.306	75	49909			30.00- 60.00	44.62
7.713	8.019	-0.306	96	6950			5.00- 9.00	6.21
7.713	8.019	-0.306	173	0			0.00- 2.00	0.00
7.713	8.019	-0.306	174	87496			50.00- 100.00	78.23
7.713	8.019	-0.306	175	6271			5.00- 9.00	7.17
7.713	8.019	-0.306	176	85970			95.00- 101.00	98.26
7.713	8.019	-0.306	177	5331			5.00- 9.00	6.20

Data File: /chem/msdj.i/j-17mar.b/j031701.. Page 2
Report Date: 17-Mar-1997 08:11

Air Toxics Limited

TARGET COMPOUNDS

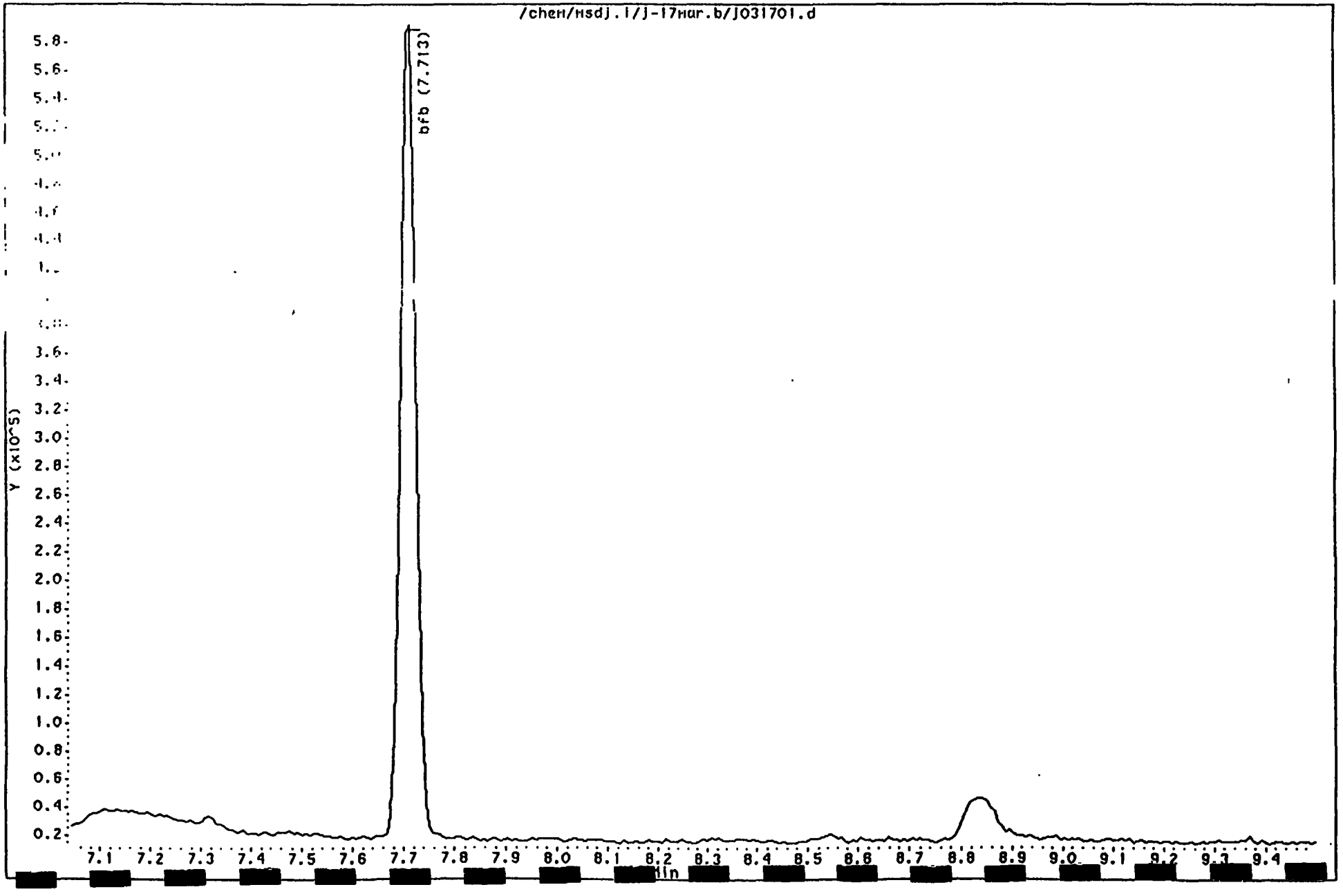
Client Name:
Lab Smp Id:
Sample Location:
Sample Date:
Sample Matrix: WATER
Analysis Type: bfb
Data Type: MS DATA
Misc Info:

Client SDG: j-17mar
Client Smp ID: BFB
Sample Point:
Date Received:
Quant Type: ESTD
Level: LOW
Operator: MH

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/KG) ug/L	Q
460-00-4	--------bfb	0.0	

Data File: /chem/msdj.i/j-17mar.b/j031701.d
Date : 17-MAR-97 08:17
Client ID: BFB
Sample Info: BFB Tune Check #275-8-25 BFB Tune Check
Volume Injected (uL): 1.0
Column phase:

Instrument: msdj.i
Operator: MH
Column diameter: 2.00



Data File: /chem/msdj.i/j-17mar.b/j031701.d

Date : 17-MAR-97 08:17

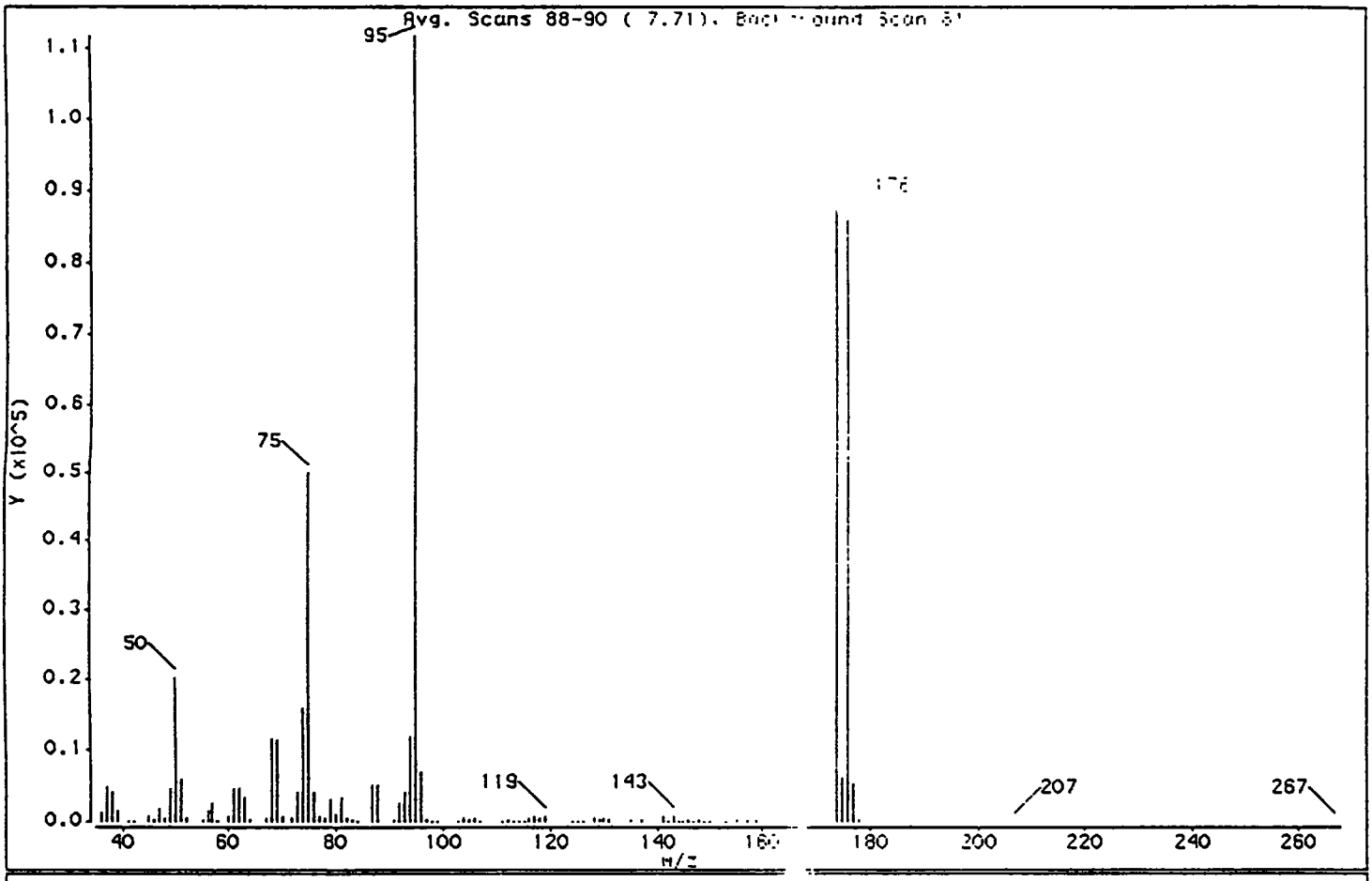
Client ID: BFB

Sample Info: BFB Tune Check #275-8-25 BFB Tune Check

Volume Injected (uL): 1.0

Column phase:

1 bfb



m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
95	Base Peak, 100% relative abundance	100.00
50	15.00 - 40.00% of mass 95	18.22
75	30.00 - 60.00% of mass 95	44.62
96	5.00 - 9.00% of mass 95	6.21
173	Less than 2.00% of mass 174	0.00 (0.00)
174	50.00 - 100.00% of mass 95	78.23
175	5.00 - 9.00% of mass 174	5.61 (7.17)
176	95.00 - 101.00% of mass 174	76.86 (98.26)
177	5.00 - 9.00% of mass 176	4.77 (6.20)

Data File: /chem/hsdj.i/j-17mar.b/j031701.d

Date : 17-MAR-97 08:17

Client ID: BFB Inst: . ...

Sample Info: BFB Tune Check #275-8-25 BFB Tune Check

Volume Injected (uL): 1.0 Operator : HH

Column phase: Column Diameter: 2.00

Data File: j031701.d

Spectrum : Avg. Scans 88-90 (7.71), Backgro ' Scan 81

Largest m/z: 95.00

Number of peaks: 102

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1319	70.00	811	104..	446	143.00	839
37.00	5000	72.00	628	105.0	263	144.00	34
38.00	4108	73.00	4184	106.0	437	145.00	112
39.00	1620	74.00	15971	107.0	117	146.00	153
41.00	23	75.00	49904	110.0	118	147.00	96
42.00	38	76.00	4240	111.0	51	148.00	267
45.00	782	77.00	645	112.0	142	149.00	45
46.00	264	78.00	442	113.0	117	150.00	127
47.00	1692	79.00	3096	114.0	59	152.00	71
48.00	589	80.00	1019	115.0	41	153.00	46
49.00	4585	81.00	3373	116.0	424	155.00	270
50.00	20376	82.00	482	117.0	670	156.00	38
51.00	5834	83.00	212	118.0	445	157.00	205
52.00	436	84.00	48	119.0	683	159.00	153
55.00	357	87.00	5137	124.0	61	161.00	46
56.00	1479	88.00	5087	125.0	36	163.00	42
57.00	2589	91.00	319	126.0	9	174.00	87496
58.00	120	92.00	2587	128.0	394	175.00	6271
60.00	819	93.00	4143	129.0	211	176.00	85968
61.00	4731	94.00	11953	130.0	396	177.00	5331
62.00	4719	95.00	111840	131.0	170	178.00	168
63.00	3423	96.00	6950	135.0	283	191.00	39
64.00	268	97.00	297	137.0	220	207.00	47
67.00	432	98.00	36	140.0	39	267.00	33
68.00	11502	99.00	37	141.0	729		
69.00	11319	103.00	29	142.0	25		

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 9703097-04A

EPA METHOD TO-14 GC/MS Full Scan

File Name:	j031706	Date of Collection:	NA
Dil. Factor:	1.00	Date of Analysis:	3/17/97

Compound	Det. Limit (ppbv)	Amount (ppbv)
Methylene Chloride	0.50	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected
Benzene	0.10	Not Detected
1,2-Dichloroethane	0.10	Not Detected
Trichloroethene	0.10	Not Detected
1,2-Dichloropropane	0.10	Not Detected
Toluene	0.10	Not Detected
Tetrachloroethene	0.10	Not Detected
Chlorobenzene	0.10	Not Detected
Ethyl Benzene	0.10	Not Detected
m,p-Xylene	0.10	Not Detected
o-Xylene	0.10	Not Detected
Styrene	0.10	Not Detected
Acetone	0.50	Not Detected
Carbon Disulfide	0.50	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected

Container Type: NA

Surrogates	% Recovery	Method Limits
Octafluorotoluene	108	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-17mar.b/j031706.d
Lab Smp Id:
Inj Date : 17-MAR-1997 12:16 — Client Smp ID: Lab Blank
Operator : MH
Smp Info : 500mL Lab Blank Can#05407 — Inst ID: msdj.i
Misc Info :
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 12:39 mhe — Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 — Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE
Target Version: 3.12 — Compound Sublist: AT.sub
Concentration Formula: Uf * Vf — Sample Matrix: AIR

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

REVIEWED BY
MAR 1 8 1997
FRANCISCO AYALA

	RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
30	Bromochloromethane					CAS #: 74-97-5			
	15.768	15.820 (1.000)	130	206377	5.0			100.00	9260
	15.768	15.820 (0.000)	128	45984			29.23- 129.23	22.28	
	15.768	15.820 (0.000)	49	109592			130.39- 230.39	53.10	
* 40	1,4-Difluorobenzene					CAS #: 540-36-3			
	17.110	17.155 (1.000)	114	978777	5.0			100.00	9260
	17.110	17.155 (0.000)	88	55432			0.00- 69.19	5.66	
* 58	Chlorobenzene-d5					CAS #: 3114-55-4			
	21.177	21.229 (1.000)	117	788282	5.0			100.00	9891
	21.177	21.229 (0.000)	82	135687			14.83- 114.83	17.21	
$ 35	Octafluorotoluene					CAS #: 434-64-0			
	16.302	16.346 (1.034)	217	514740	5.4	5.4		100.00	8070
	16.302	16.346 (0.000)	186	106832			13.54- 113.54	20.75	
$ 49	Toluene-d8					CAS #: 2037-26-5			
	19.125	19.169 (1.118)	98	874775	4.9	4.9		100.00	9962
	19.125	19.169 (0.000)	70	34209			0.00- 63.99	3.91	
	19.125	19.169 (0.000)	100	169344			15.53- 115.53	19.36	

Data File: /chem/msdj.i/j-17mar.b/j031706.d
Report Date: 17-Mar-1997 12:47

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
$ 65 Bromofluorobenzene					CAS #: 460-00-4			
22.993	23.060 (1.086)	95	616893	5.0	5.0		100.00	7970
22.993	23.060 (0.000)	174	81832			7.76- 107.76	13.27	
22.993	23.060 (0.000)	176	82904			7.57- 107.57	13.44	

MH275
3/17/97

Audit History For: /chem/msdj.i/j-17mar.b/j031706.d

Change Date: 17-Mar-97 12:35
Change Made by: Automation

Parameter: ChemLan Data Transfer
Old Value:
New Value:
Reason For Change: MS Data from Instrument: msdj.i

Change Date: 17-Mar-97 12:35
Change Made by: Automation

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Complete Target Compound Processing

Change Date: 17-Mar-97 12:37
Change Made by: mhe

Parameter: date
Old Value: 17-MAR-97 12:16
New Value: 17-MAR-1997 12:16
Reason For Change: N/A

Change Date: 17-Mar-97 12:37
Change Made by: mhe

Parameter: Client ID
Old Value: VSTD150
New Value: Lab Blank
Reason For Change: N/A

Change Date: 17-Mar-97 12:37
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

Change Date: 17-Mar-97 12:40
Change Made by: mhe

Parameter: Target Processing
Old Value:
New Value: Method: /chem/msdj.i/j-17mar.b/to140109.m
Reason For Change: Quantitation

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Best Hit for Propylene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Manual reintegration of Propylene (Signal 1)
Old Value: No previous peak at 4.179
New Value: New Area/Time: 7655 / 4.18
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Best Hit for Propylene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Best Hit for Ethanol changed
Old Value: Old Hit #2
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Best Hit for Acetone changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Manual reintegration of Acetone (Signal 1)
Old Value: No previous peak at 12.640
New Value: New Area/Time: 13644 / 12.64
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Best Hit for Acetone changed
Old Value: Old Hit #1
New Value: Compound Undetected

Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Best Hit for Methylene Chloride changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Manual reintegration of Methylene Chloride (Signal 1)
Old Value: No previous peak at 13.357
New Value: New Area/Time: 2423 / 13.36
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Best Hit for Methylene Chloride changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Best Hit for Tetrahydrofuran changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Best Hit for Benzene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 12:46
Change Made by: mhe

Parameter: Manual reintegration of Benzene (Signal 1)
Old Value: No previous peak at 16.676
New Value: New Area/Time: 4065 / 16.68
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Best Hit for Benzene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Best Hit for 1,2-Dichloroethane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Best Hit for Toluene changed
Old Value: Compound Manually Identified
New Value: New Hit #1
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Manual reintegration of Toluene (Signal 1)
Old Value: No previous peak at 19.224
New Value: New Area/Time: 813 / 19.22

Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Best Hit for Toluene changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Best Hit for Octane changed
Old Value: Old Hit #1
New Value: Compound Undetected
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Requantitate all compounds
Old Value:
New Value:
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Best Match for Unknown compound at 22.611 min. changed.
Old Value: Old match: Acetamide, N,N-dimethyl-
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

Change Date: 17-Mar-97 12:47
Change Made by: mhe

Parameter: Best Match for Unknown compound at 34.368 min. changed.
Old Value: Old match: Unknown
New Value: New match: Unknown Compound Deleted
Reason For Change: N/A

MH 3/17/97

Data File: /chem/msdj.i/j-17mar.b/j031706.d
Report Date: 17-Mar-1997 12:37

Air Toxics Limited

AMBIENT AIR METHOD TO14

Data file : /chem/msdj.i/j-17mar.b/j031706.d
Lab Smp Id: Client Smp ID: Lab Blank
Inj Date : 17-MAR-1997 12:16
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Lab Blank Can#05407
Misc Info :
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 11:45 dpage Quant Type: ISTD
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.000
Integrator: HP RTE Compound Sublist: AT.sub
Target Version: 3.12 Sample Matrix: AIR
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

				CONCENTRATIONS ON-COL	FINAL			
RT	EXP RT (REL RT)	MASS	RESPONSE	(PPBV)	(PPBV)	TARGET RANGE	RATIO	SIMILARITY
* 30 Bromochloromethane					CAS #: 74-97-5			
15.768	15.820 (1.000)	130	206377	5.0			100.00	9260
15.768	15.820 (0.000)	128	45984			27.20- 127.20	22.28	
15.768	15.820 (0.000)	49	109592			125.39- 225.39	53.10	
* 40 1,4-Difluorobenzene					CAS #: 540-36-3			
17.110	17.155 (1.000)	114	978777	5.0			100.00	9260
17.110	17.155 (0.000)	88	55432			0.00- 68.90	5.66	
* 58 Chlorobenzene-d5					CAS #: 3114-55-4			
21.177	21.229 (1.000)	117	788282	5.0			100.00	9891
21.177	21.229 (0.000)	82	135687			11.58- 111.58	17.21	
$ 35 Octafluorotoluene					CAS #: 434-64-0			
16.302	16.346 (1.034)	217	514740	5.4	5.4		100.00	8070
16.302	16.346 (0.000)	186	106832			11.65- 111.65	20.75	
$ 49 Toluene-d8					CAS #: 2037-26-5			
19.125	19.169 (1.118)	98	874775	4.9	4.9		100.00	9962
19.125	19.169 (0.000)	70	34209			0.00- 64.19	3.91	
19.125	19.169 (0.000)	100	169344			16.75- 116.75	19.36	

Data File: /chem/msdj.i/j-17mar.b/j031706.d
Report Date: 17-Mar-1997 12:37

RT	EXP RT (REL RT)	MASS	RESPONSE	CONCENTRATIONS ON-COL (PPBV)	CONCENTRATIONS FINAL (PPBV)	TARGET RANGE	RATIO	SIMILARITY
65 Bromofluorobenzene					CAS #: 460-00-4			
22.993	23.060 (1.086)	95	616893	5.0	5.0		100.00	7970
22.993	23.060 (0.000)	174	81832			10.57- 110.57	13.27	
22.993	23.060 (0.000)	176	82904			7.57- 107.57	13.44	
11 Ethanol					CAS #: 64-17-5			
12.205	11.952 (0.774)	45	1239	0.073	0.073		100.00	(a)
11.602	11.952 (0.736)	46	118			0.00- 91.33	9.52	
12.243	11.952 (0.776)	43	122			0.00- 76.37	9.85	
31 Tetrahydrofuran					CAS #: 109-99-9			
15.661	15.889 (0.993)	42	1264	0.023	0.023		100.00	5014(aQ)
15.661	15.889 (0.000)	71	105			0.00- 85.96	8.31	
15.661	15.889 (0.000)	72	0			0.00- 89.42	0.00	
38 1,2-Dichloroethane					CAS #: 107-06-2			
17.110	16.713 (1.000)	62	38995	0.53	0.53		100.00	3494(Q)
17.110	16.713 (0.000)	64	11770			0.00- 81.84	30.18	
50 Octane					CAS #: 111-65-9			
19.117	19.261 (1.117)	57	3018	0.057	0.057		100.00	2154(aQ)
19.117	19.261 (0.000)	85	144			53.95- 153.95	4.77	
19.117	19.261 (0.000)	43	981			225.56- 325.56	32.50	

QC Flag Legend

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

Air Toxics Limited

Unknown Compounds Quantitation Report

Data file : /chem/msdj.i/j-17mar.b/j031706.d
Lab Smp Id: Client Smp ID: Lab Blank
Inj Date : 17-MAR-1997 12:16
Operator : MH Inst ID: msdj.i
Smp Info : 500mL Lab Blank Can#05407
Misc Info :
Comment :
Method : /chem/msdj.i/j-17mar.b/to140109.m
Meth Date : 17-Mar-1997 11:45 dpage
Cal Date : 09-JAN-1997 12:48 Cal File: j010909.d
Als bottle: 1
Dil Factor: 1.000 Target Version: 3.12
Integrator: HP RTE Compound Sublist: AT.sub
Sample Matrix: AIR
Quantitative Mode : Use RF of Nearest Std
Concentration Formula: Uf * Vf

Name	Value	Description
Uf	1.000	ng unit correction factor
Vf	1.000	Volumetric correction factor

ISTD	RT	AREA	AMOUNT
* 58 Chlorobenzene-d5	21.177	2741605	5.000

RT	AREA	CONCENTRATIONS ON-COL(PPBV)	CONCENTRATIONS FINAL(PPBV)	QUAL	QUANT LIBRARY	QUANT LIB ENTRY	QUANT CPND #
Acetamide, N,N-dimethyl-				CAS #: 127-19-5			
22.611	781479	1.4	1.4	86	NBS54K.l	707	58
Unknown				CAS #:			
34.368	172389	0.31	0.31	0		0	58

Data File: /chem/msdj.i/j-17mar.b/j031706.d
Report Date: 17-Mar-1997 12:40

Air Toxics Limited

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: msdj.i
Lab File ID: j031706.d
Lab Smp Id:
Analysis Type: VOA
Quant Type: ISTD
Operator: MH
Method File: /chem/msdj.i/j-17mar.b/to140109.m
Misc Info:

Calibration Date: 03/17/97
Calibration Time: 0849
Client Smp ID: Lab Blank
Level: LOW
Sample Type: AIR

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	234650	140790	328510	206377	-12.05
40 1,4-Difluorobenzene	1091071	654643	1527499	978777	-10.29
58 Chlorobenzene-d5	904693	542816	1266570	788282	-12.87

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	% DIFF
30 Bromochloromethane	15.78	15.28	16.28	15.77	-0.05
40 1,4-Difluorobenzene	17.11	16.61	17.61	17.11	0.00
58 Chlorobenzene-d5	21.18	20.68	21.68	21.18	0.00

AREA UPPER LIMIT = + 40% of internal standard area.
AREA LOWER LIMIT = - 40% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

MH
3/17/97

Data File: /chem/msdj.i/j-17mar.b/j031706.d
Report Date: 17-Mar-1997 12:37

Air Toxics Limited

RECOVERY REPORT

Client Name:
Sample Matrix: GAS
Lab Smp Id:
Level: LOW
Data Type: MS DATA
SpikeList File:
Method File: /chem/msdj.i/j-17mar.b/to140109.m
Misc Info:

Client SDG: j-17mar
Fraction: VOA
Client Smp ID: Lab Blank
Operator: MH
SampleType: SAMPLE
Quant Type: ISTD

SURROGATE COMPOUND	CONC ADDED PPBV	CONC RECOVERED PPBV	% RECOVERED	LIMITS
$ 35 Octafluorotoluene	5.0	5.4	107.65	60-140
$ 49 Toluene-d8	5.0	4.9	98.78	60-140
$ 65 Bromofluorobenzene	5.0	5.0	101.07	60-140

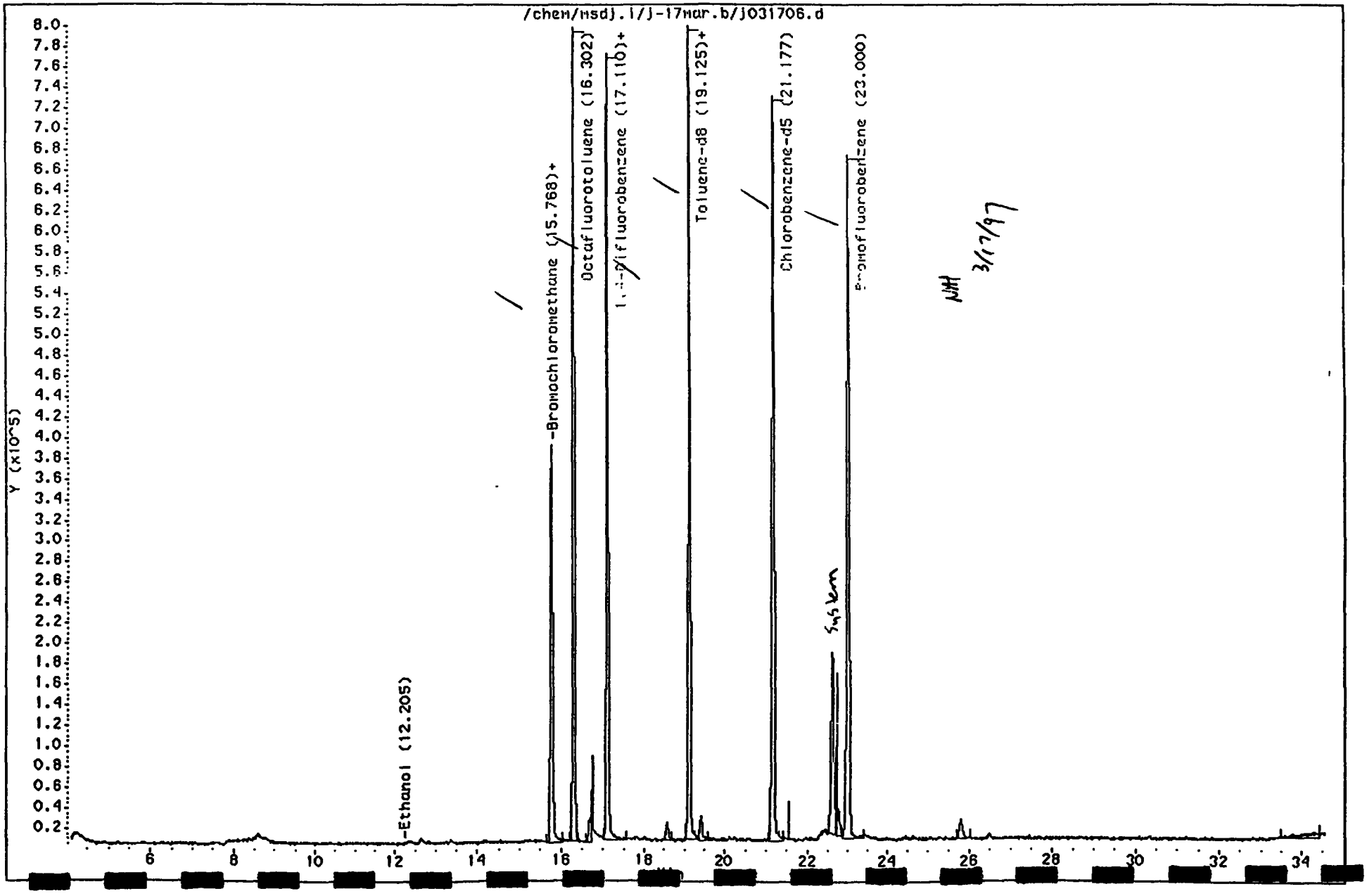
MH
3/17/97

Data File: /chem/msdj.i/j-17mar.b/j031706.d
Date : 17-MAR-1997 12:16
Client ID: Lab Blank
Sample Info: 500mL Lab Blank Can#05407

Instrument: msdj.i

Operator: MH
Column diameter: 0.58

Column phase: RTx-624



Data File: /chem/msdj.i/j-17mar.b/j031706.d

Date : 17-MAR-1997 12:16

Client ID: Lab Blank

Instrument: msdj.i

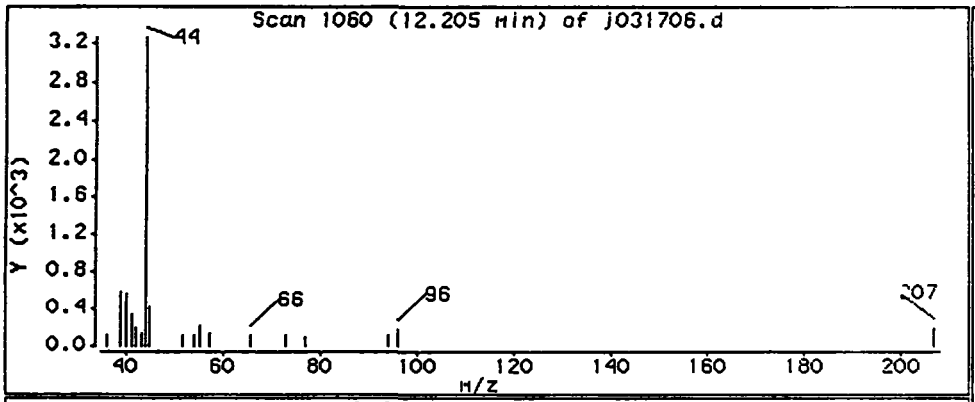
Sample Info: 500mL Lab Blank Can#05407

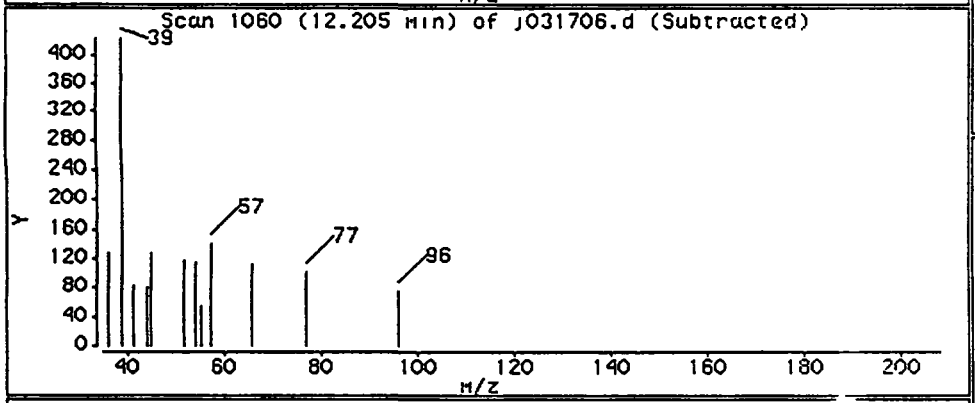
Operator: MH

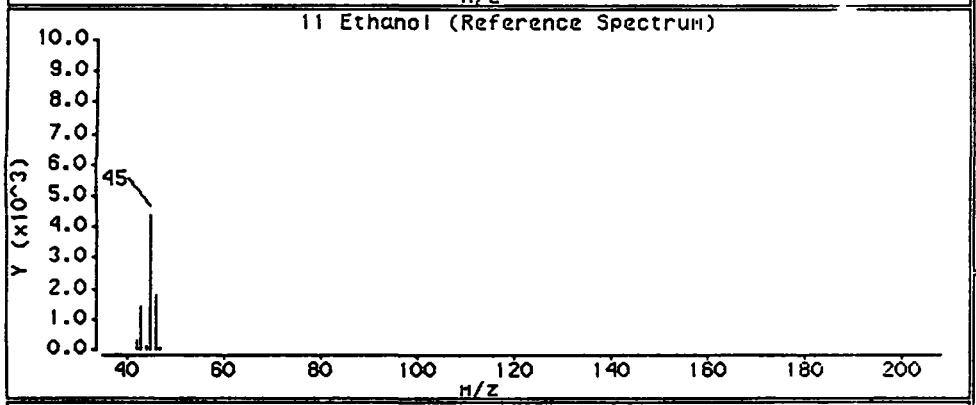
Column phase: RTx-624

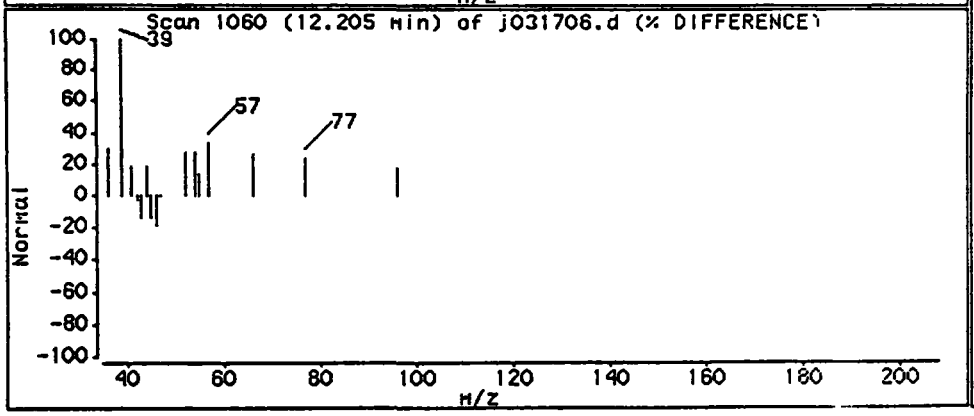
Column Diameter: 0.58

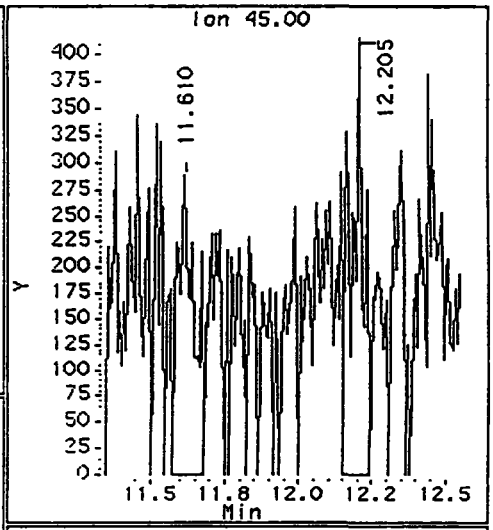
11 Ethanol

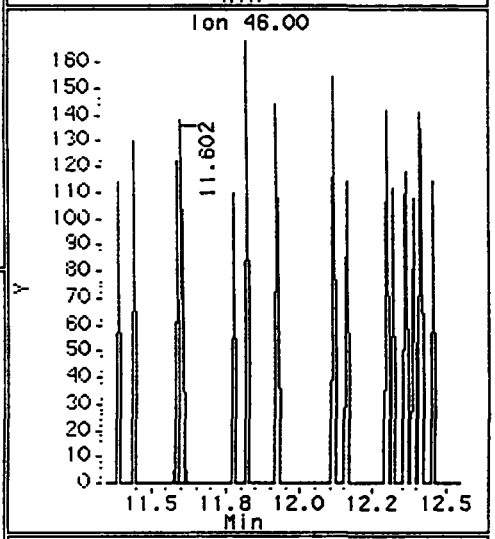


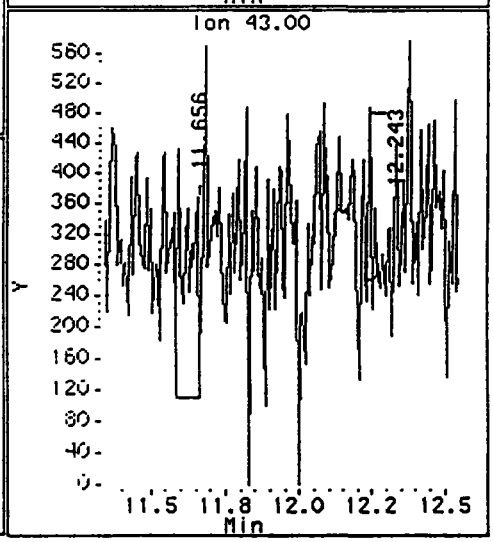












Data File: /chem/msdj.i/j-17mar.b/j031706.d

Date : 17-MAR-1997 12:16

Client ID: Lab Blank

Instrument: msdj.i

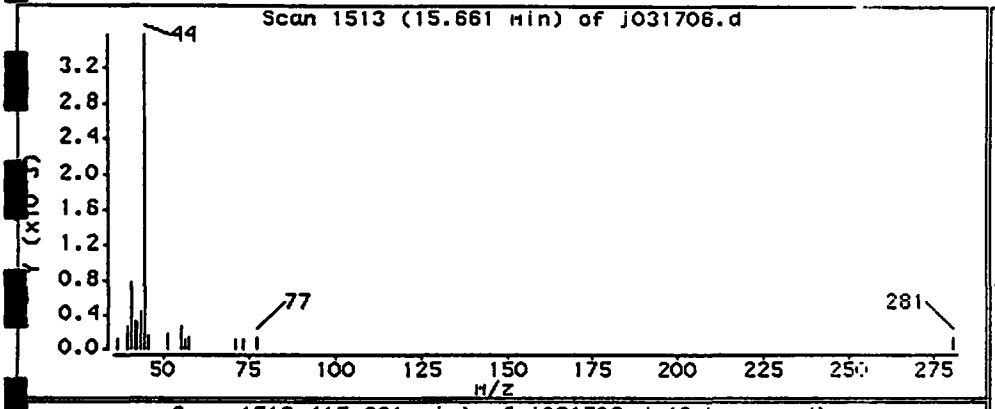
Sample Info: 500mL Lab Blank Can#05407

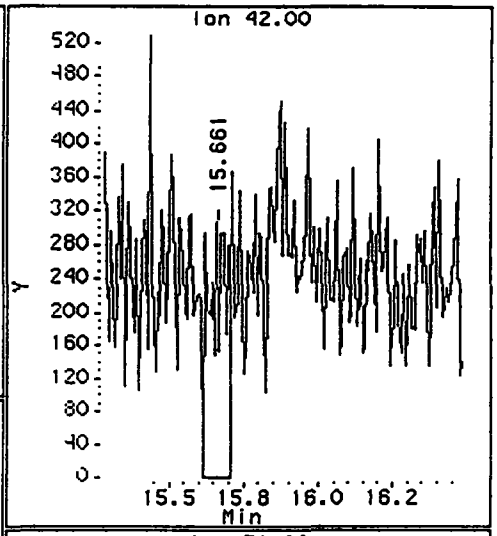
Operator: MH

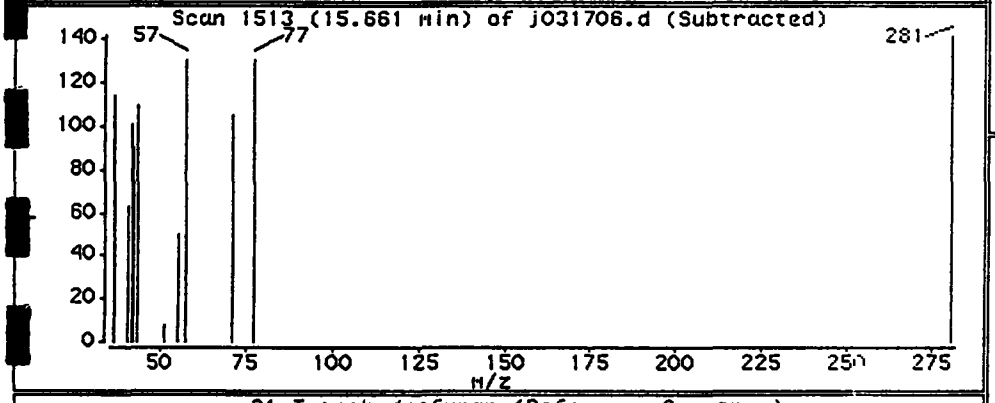
Column phase: RTx-624

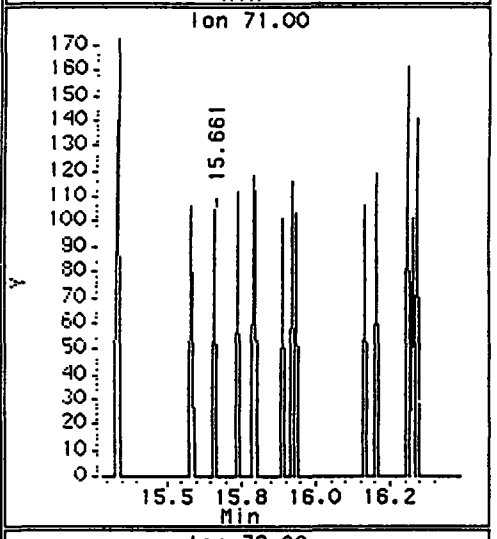
Column Diameter: 0.58

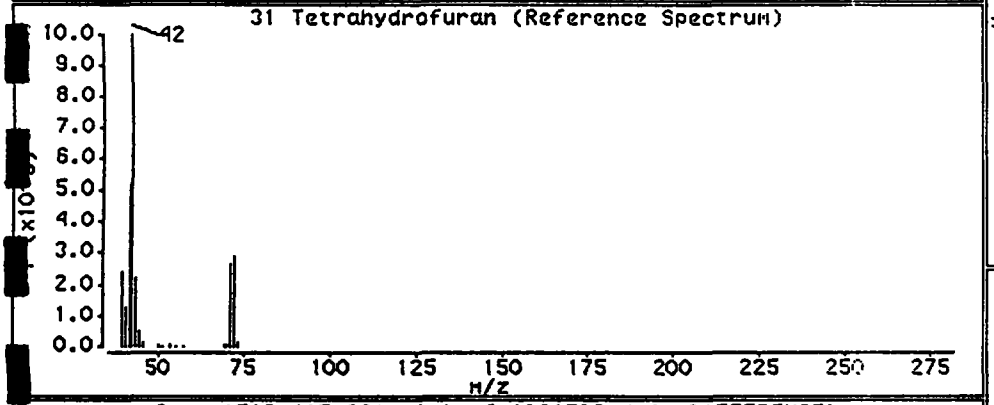
31 Tetrahydrofuran

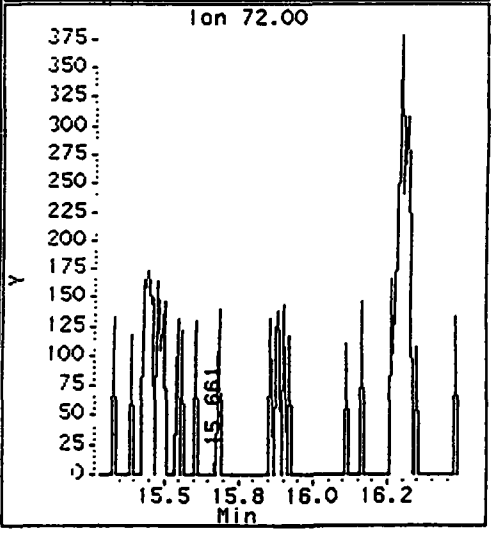


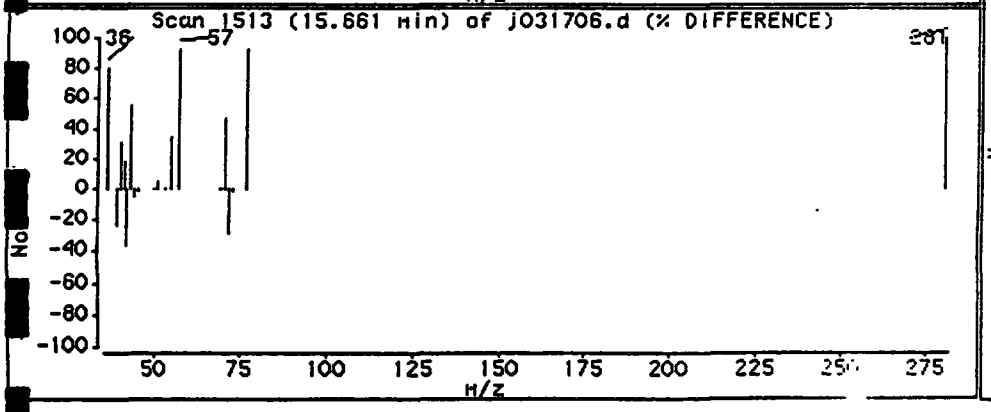












Data File: /chem/msdj.i/j-17mar.b/j031706.d

Date : 17-MAR-1997 12:16

Client ID: Lab Blank

Instrument: msdj.i

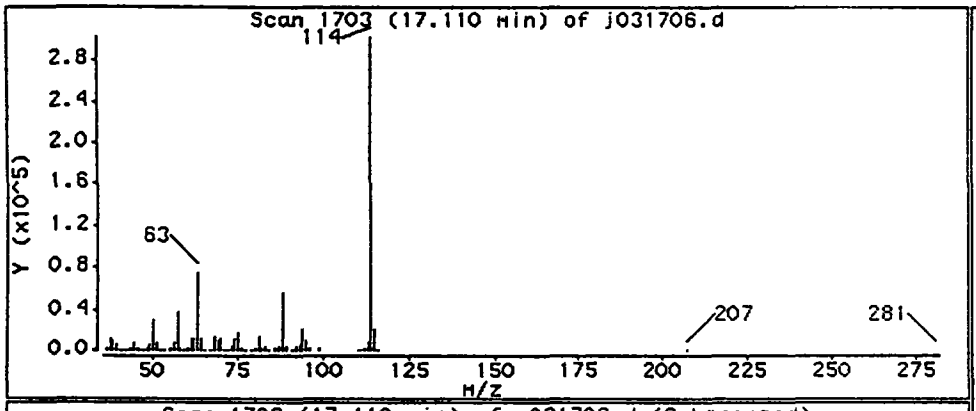
Sample Info: 500mL Lab Blank Can#05407

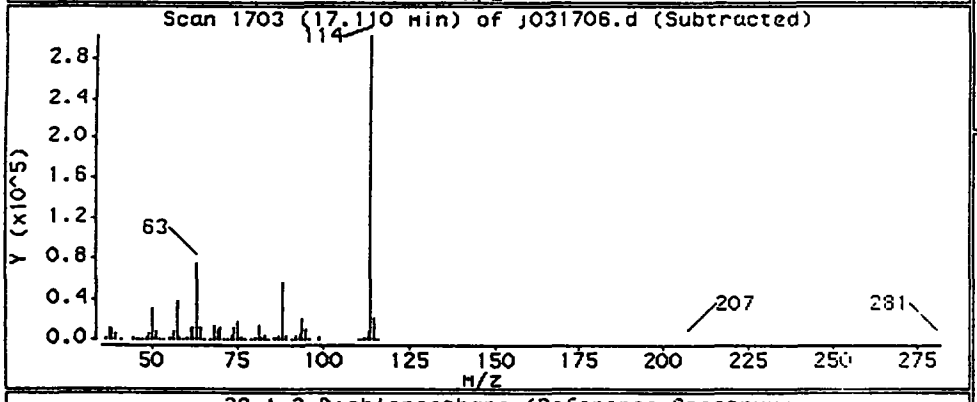
Operator: MH

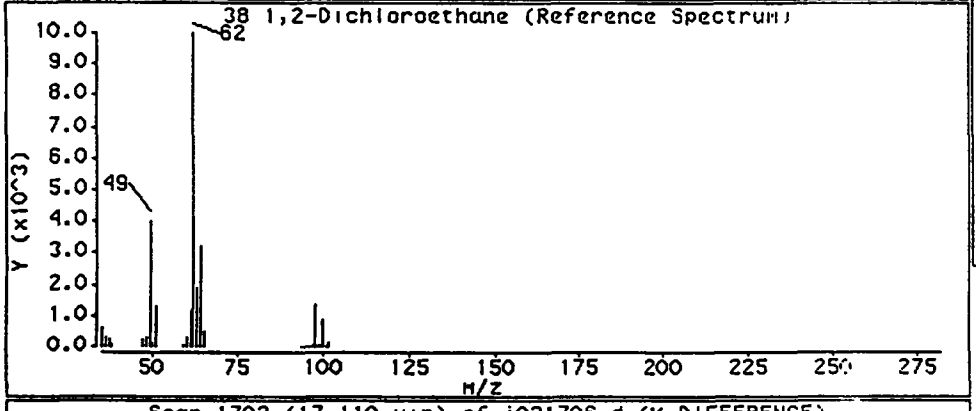
Column phase: RTx-624

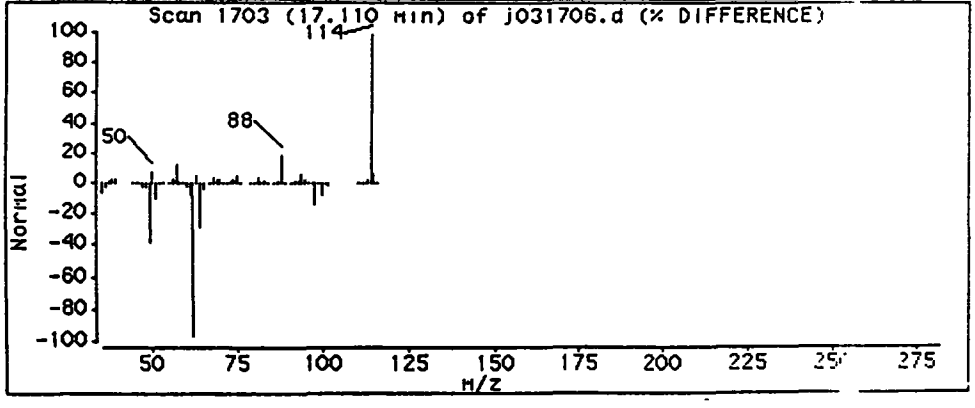
Column diameter: 0.58

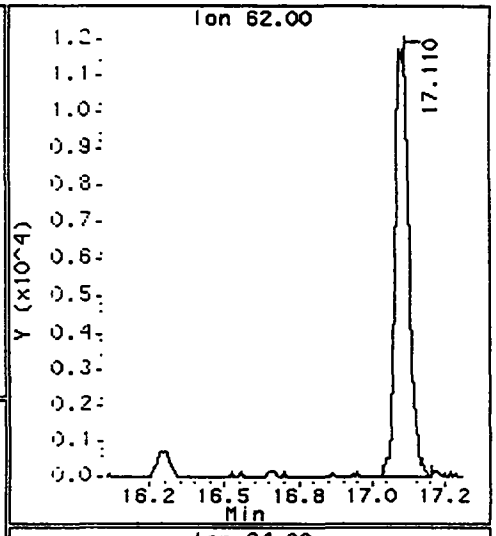
38 1,2-Dichloroethane

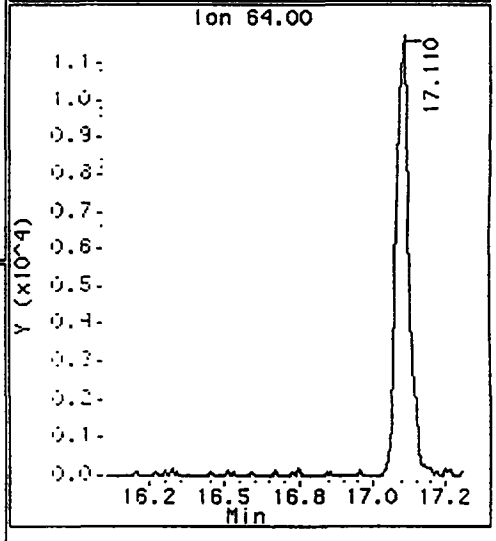












Data File: /chem/msdj.i/j-17mar.b/j031706.d

Date : 17-MAR-1997 12:16

Client ID: Lab Blank

Instrument: msdj.i

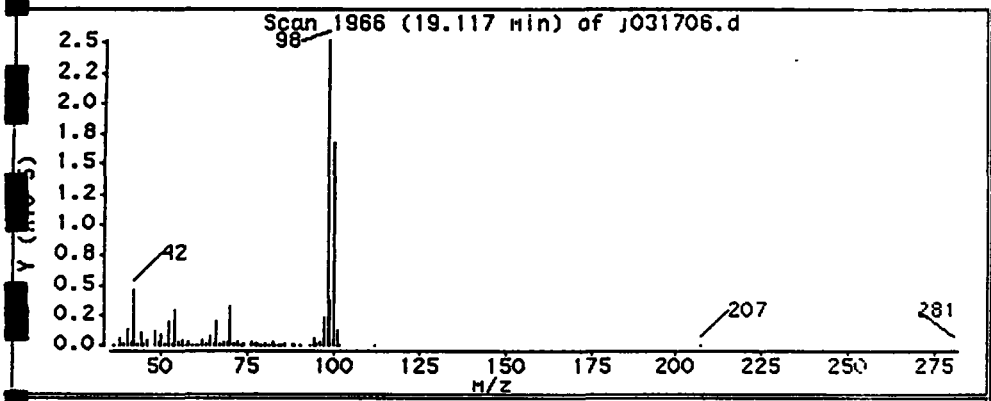
Sample Info: 500mL Lab Blank Can#05407

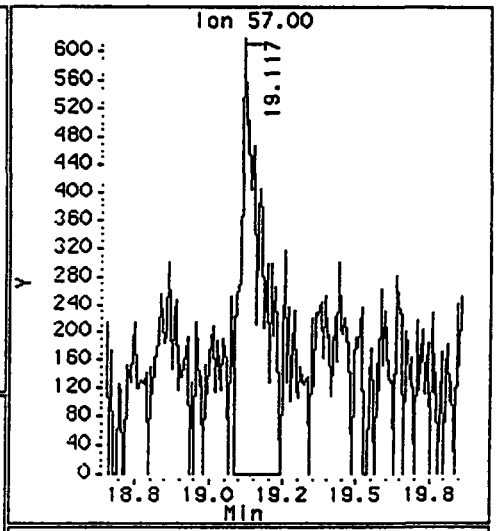
Operator: MH

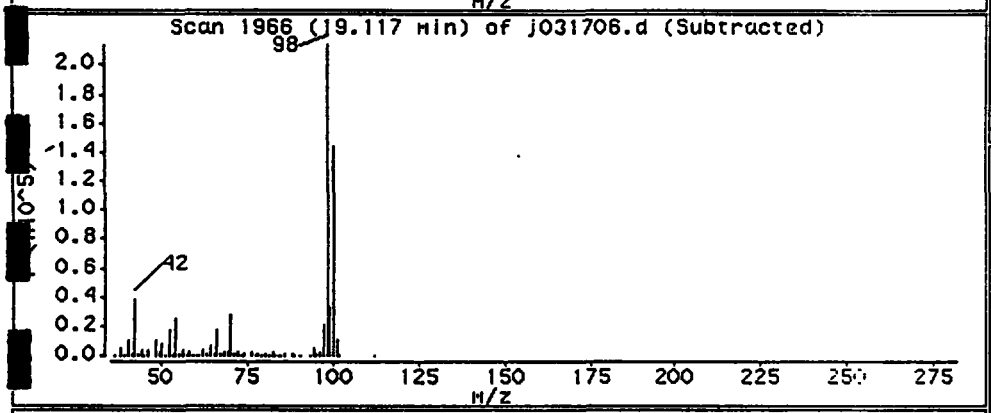
Column phase: RTx-624

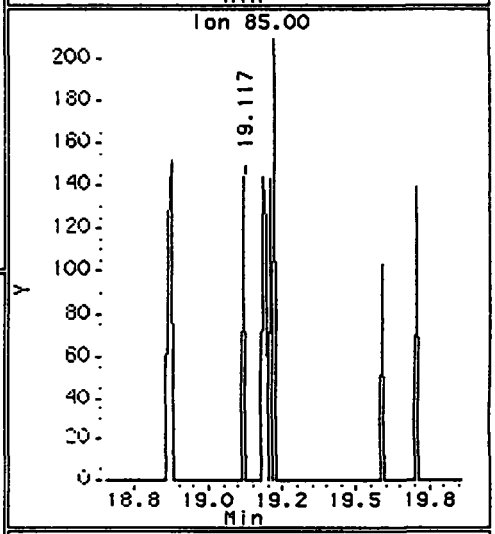
Column diameter: 0.58

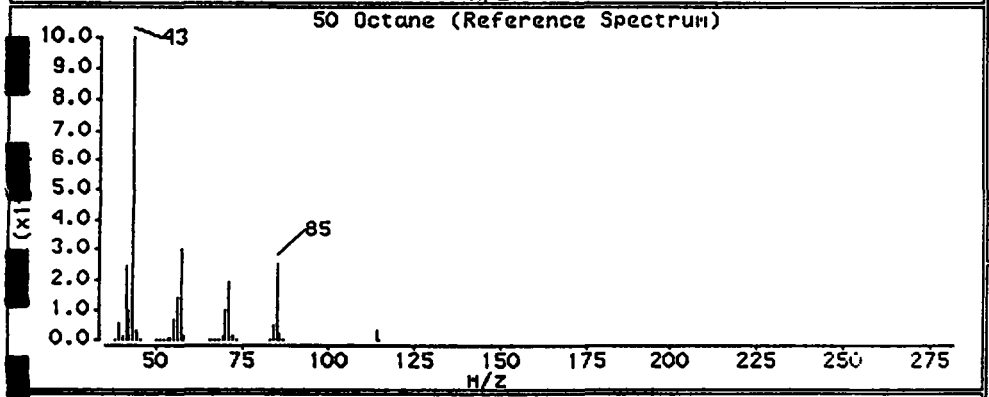
50 Octane

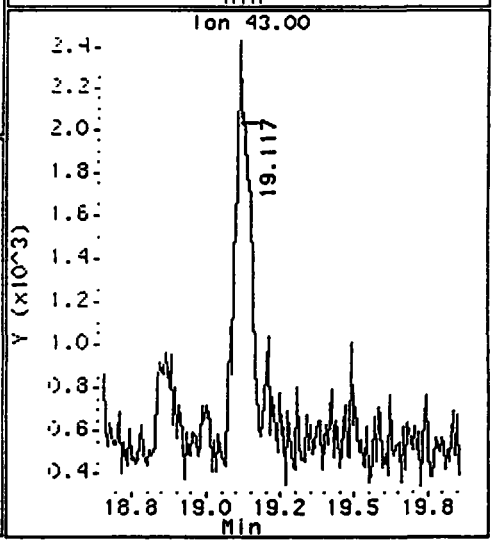


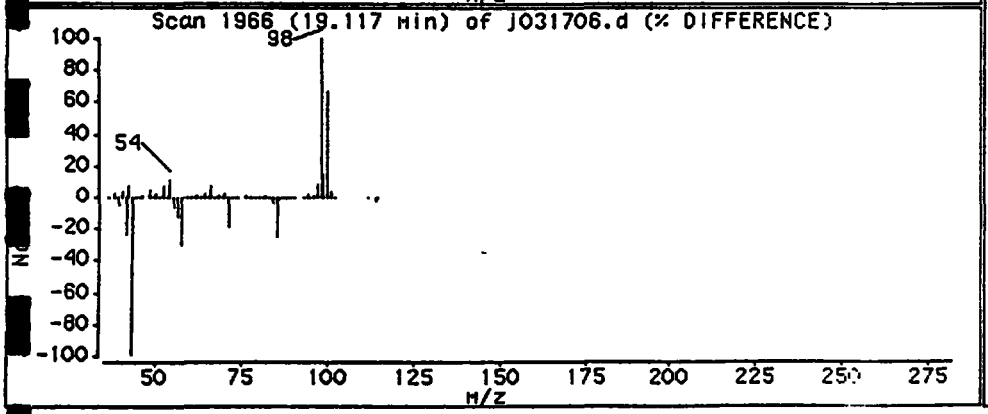






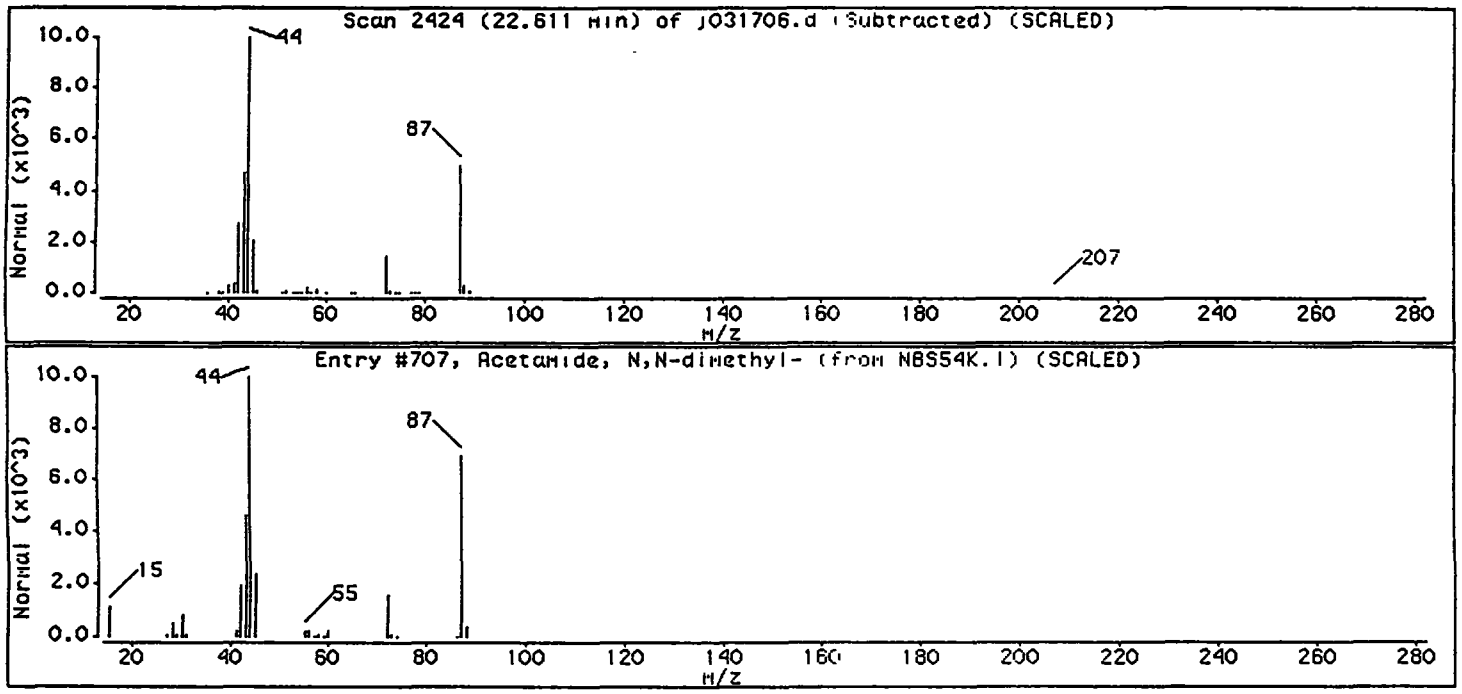




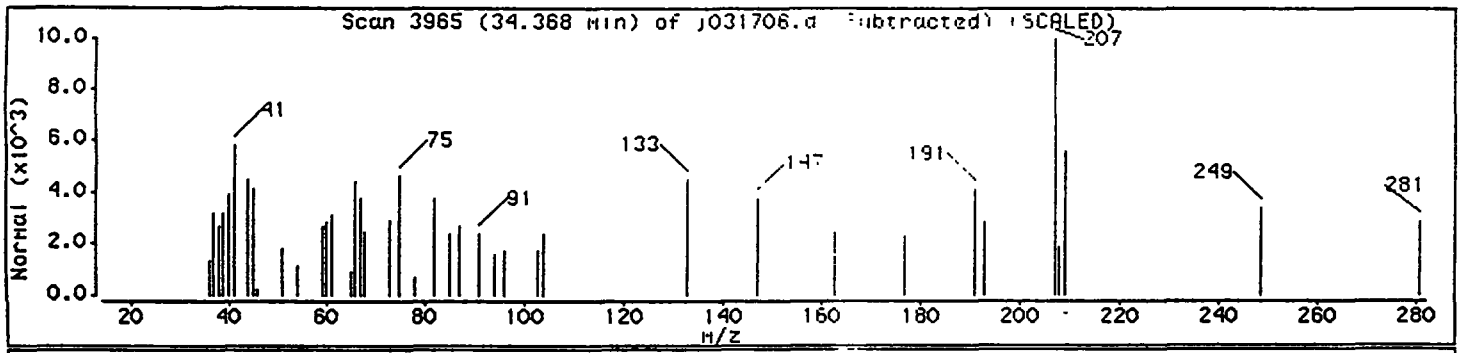


Data File: /chem/msdj.i/j-17mar.b/j031706.d
Date : 17-MAR-1997 12:16
Instrument: msdj.i
Client ID: Lab Blank
Column phase: RTx-624
Column diameter: 0.58

Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
Acetamide, N,N-dimethyl-	127-19-5	NBS54K.I	707	86



Library Search Compound Match	CAS Number	Library	Lib Entry	Quality
UNKNOWN				



6291

AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX: (916) 985-1020

Nº 010139

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Contact Person: Barbara Dye
Company: Parsons ES
Address: 9906 Gulf Freeway City: Houston State: TX Zip: 77034
Phone: 713-943-5432 FAX: 713-943-5427
Collected By: Signature:

Project Info:
P.O. #: 727931-3004-00
Project #: 727931
Project Name: Bailey

Turn Around Time:
☒ Normal
☐ Rush _____ Specify

Lab I.D.	Field Sample I.D.	Date & Time	Analyses Requested	Canister Pressure / Vacuum Initial	Final	Receipt
01A	031197 U2	Mar 11, 97 0833 1630	TO-14 see ATT	-30	-9	9.0"Hg
02A	031197 U1	Mar 11, 97 0833 1630	TO-14	-28	-9	8.5"Hg
03A	031197 D1	Mar 11, 97 0842 1640	TO-14	-30	-9.5	9.0"Hg
						3/12/97

Relinquished By: (Signature) Date/Time: 3-11-97
Print Name: Michael Steiner
Relinquished By: (Signature) Date/Time
Received By: (Signature) Date/Time
Relinquished By: (Signature) Date/Time
Received By: (Signature) Date/Time: Scott Amerson ATL 3/12/97 919

Notes: 3 filters
3 Flow Controllers
3 Gayes

Lab Use Only

Shipper Name	Air Bill #	Opened By:	Date/Time	Temp. (°C)	Condition	Custody Seals Intact?	Work Order #
FED EX	015382233	[illegible]	3/12/97 919	AMBIENT	GOOD	(Yes) No None N/A	9703097

Form 1293 rev. 06

LOGIN INFORMATION

WORKORDER 9703097

		Invoice #: 13621
Client		**Date Completed:** 3/20/97
Ms. Barabara Dye	**Phone**	**Date Received:** 3/12/97
Parsons Engineering Science, Inc.	713-943-5432	**PO#:** 727931-3004-00
9906 Gulf Freeway, Suite 100	**FAX**	**Project#:** 727931 Bailey
Houston, TX 77034	713-943-5427	**Total $:** $705.00
		Logged By: KNS

Fraction	Sample #	Analysis	Collected	Receipt Vac./Pres.	Amount$
01A	031197U2	TO-14	3/11/97	9.0 "Hg	$235.00
02A	031197U1	TO-14	3/11/97	8.5 "Hg	$235.00
03A	031197D1	TO-14	3/11/97	9.0 "Hg	$235.00
04A	Lab Blank	TO-14	NA	NA	NC

BILL TO: Ms. Mary Miller
Parsons Engineering Science, Inc.
9906 Gulf Freeway, Suite 100
Houston, TX 77034

Are there any receiving nonconformities? no

REMARKS:

DILUTION FACTORS

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Vacuum}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} - [(\text{Initial Pressure ("Hg)}) (14.7 \text{ psi} / 30 \text{ "Hg})]}$$

$$\text{Dilution Factor} = \frac{\text{Final Pressure}}{\text{Initial Pressure}} = \frac{14.7 \text{ psi} + \text{Final Pressure (psi)}}{14.7 \text{ psi} + \text{Initial Pressure (psi)}}$$

Initial Vacuum ("Hg)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.5	1.36	1.71	2.05
1.0	1.39	1.74	2.09
1.5	1.41	1.77	2.13
2.0	1.44	1.80	2.16
2.5	1.46	1.83	2.20
3.0	1.49	1.87	2.24
3.5	1.52	1.90	2.29
4.0	1.55	1.94	2.33
4.5	1.58	1.98	2.38
5.0	1.61	2.02	2.42
5.5	1.64	2.06	2.47
6.0	1.68	2.10	2.53
6.5	1.71	2.15	2.58
7.0	1.75	2.19	2.64
7.5	1.79	2.24	2.69
8.0	1.83	2.29	2.76
8.5	1.87	2.34	2.82
9.0	1.91	2.40	2.89
9.5	1.96	2.46	2.96
10.0	2.01	2.52	3.03
10.5	2.06	2.59	3.11
11.0	2.12	2.65	3.19
11.5	2.17	2.72	3.28
12.0	2.23	2.80	3.37
12.5	2.30	2.88	3.46
13.0	2.36	2.97	3.57
13.5	2.44	3.06	3.67
14.0	2.51	3.15	3.79
14.5	2.59	3.25	3.91
15.0	2.68	3.36	4.04
15.5	2.77	3.48	4.18
16.0	2.87	3.60	4.33
16.5	2.98	3.73	4.49
17.0	3.09	3.88	4.66
17.5	3.22	4.03	4.85
18.0	3.35	4.20	5.05
18.5	3.50	4.38	5.27
19.0	3.65	4.58	5.51
19.5	3.83	4.80	5.77
20.0	4.02	5.04	6.06
20.5	4.23	5.31	6.38

Initial Vacuum ("Hg)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
21.0	4.47	5.60	6.73
21.5	4.73	5.93	7.13
22.0	5.03	6.30	7.58
22.5	5.36	6.72	8.08
23.0	5.74	7.20	8.66
23.5	6.19	7.76	9.32
24.0	6.70	8.40	10.10
24.5	7.31	9.17	11.02
25.0	8.04	10.08	12.12
25.5	8.93	11.20	13.47
26.0	10.05	12.60	15.15
26.5	11.49	14.40	17.32
27.0	13.40	16.80	20.20
27.5	16.08	20.16	24.24
28.0	20.10	25.20	30.31
28.5	26.80	33.61	40.41
29.0	40.20	50.41	60.61

Initial Pressure (psi)	5 psi Final Press. Dil. Factor	10 psi Final Press. Dil. Factor	15 psi Final Press. Dil. Factor
0.0	1.34	1.68	2.02
0.2	1.32	1.66	1.99
0.4	1.30	1.64	1.97
0.6	1.29	1.61	1.94
0.8	1.27	1.59	1.92
1.0	1.25	1.57	1.89
1.2	1.24	1.55	1.87
1.4	1.22	1.53	1.84
1.6	1.21	1.52	1.82
1.8	1.19	1.50	1.80
2.0	1.18	1.48	1.78
2.2	1.17	1.46	1.76
2.4	1.15	1.44	1.74
2.6	1.14	1.43	1.72
2.8	1.13	1.41	1.70
3.0	1.11	1.40	1.68
3.2	1.10	1.38	1.66
3.4	1.09	1.36	1.64
3.6	1.08	1.35	1.62
3.8	1.06	1.34	1.61
4.0	1.05	1.32	1.59