

158112



5 Underwood Ct., Delran, NJ 08075 609-461-4003

TECHNICAL ASSISTANCE TEAM FOR EMERGENCY RESPONSE REMOVAL AND PREVENTION
EPA CONTRACT 68-WO-0036

MEMORANDUM

TO: Jamie Fenske, OSC, EPA, Region III TDD #9111-26
Western Response Section PCS #2035

THRU: Mike Zickler, TATL, Region III MZ

FROM: Marian Murphy, TAT Region III MM

SUBJECT: Big John's Samples Analytical Review

DATE: January 10, 1992

This report covers the review of the analytical data package for five (5) drum samples and one (1) solid sample collected at the Big John's Site on December 10, 1991. The samples were received at Princeton Testing on December 12, 1991. Three drums were analyzed for volatile organics (VOA) and flashpoint. One drum was analyzed for PCBs, and one drum was analyzed for sulfites. The solid sample was analyzed for asbestos.

ANALYTICAL METHODOLOGY

The VOA samples were analyzed in accordance with EPA Method 8240. The PCB sample was analyzed in accordance with EPA Method 8080. The flashpoint samples were analyzed in accordance with EPA Method 1020. The sulfite analysis was performed in accordance with EPA Method 377.1. The solid was analyzed for asbestos by PLM.

- Signed chain-of-custody records were received.
- The GC/MS tune data for the VOAs and the internal standard data were acceptable. The initial and continuing calibration data had some compounds out of QC criteria, however, only 2-butanone was qualified approximate, for sample DO1. The matrix spike/matrix spike duplicate recoveries, surrogate spike recoveries and relative percent difference (RPD) values were acceptable for the most part. The method blank contained methylene chloride and acetone. Samples DO1, DO5 and DO6 should be considered not detected for methylene chloride, and sample DO6 should be considered not detected for acetone.

NR 100-629

- The PCB calibration data was acceptable. The method blank was free of contamination. The surrogate spike recovery for sample DO4 was lower than the QC limits, but no PCBs were found, therefore no data was qualified. As no PCBs were found, no second column confirmations were performed.

CONCLUSION

Accept the data as presented except for methylene chloride, acetone and 2-butanone. The methylene chloride should be considered not detected for samples DO1, DO5 and DO6 due to blank contamination. The acetone should be considered not detected for sample DO6 due to blank contamination. The 2-butanone should be considered approximate for sample DO1 due to calibration outliers. It should be noted that any volatile analysis marked "E" should be considered approximate since it is an estimated concentration.

MM/mr

CHAIN OF CUSTODY RECORD

RI
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

9106300

PROJ. NO.	PROJECT NAME	NO. OF CONTAINERS	STATION LOCATION	DATE	TIME	REMARKS
	Big John's Salvage					
SAMPLERS: (Signature) <i>Michael R. Jordella</i>						
DA1	12/10/14Z	1	Inside Garage			Test for Flash Point and VOCs
DA2	12/10/14Z	1	Inside Garage			Test for Flash Point and VOCs
DA3	12/10/14Z	1	" "			Test for Sulfoxides
DA4	12/10/14Z	1	Inside Concrete Slab 644			Test for PCBs
DA5	12/10/14Z	1	" "			Test for Flash Point and VOCs
DA6	12/10/14Z	1	" "			Test for Flash Point and VOCs
DA7	12/10/14Z	1	" "			Test for Asbestos
Please send one copy of Results to: PAT Basher % Roy F. Westerman, 141 Wacker Run Rd. Wheeling, WV 26003						
One copy to Marisol Murphy via Westerman, 5 Underwood Court Delron, NJ 07075						
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
<i>Michael R. Jordella</i>	12/10/14Z	<i>[Signature]</i>				
Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Date / Time	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Relinquished by: (Signature)	Date / Time	Remarks

Distribution: Original Accompanying Shipment; Copy to Coordinator Field Files



attention to the
laboratory for

Weston TAT
5 Underwood Court
Delran, New Jersey 08075
Attn: Marian Murphy

JOB # 9108360-001/2GMWH

AR100632



princeton testing
laboratory inc.

Weston TAT
5 Underwood Court
Delran, New Jersey 08075
Attn: Marian Murphy

January 3, 1992
Job #: 9108360-001/2GMWH

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AR100633

APPROVED SAMPLE ANALYSIS REQUEST

Weston TAT
5 Underwood Court
Delran, New Jersey 08075

Attention: Marian Murphy
Phone: (609) 461-4003

Customer Number: T1342
Credit By: Heather Menzel
Approved By: Susan Sharples

Project No.: 9108360-001GMWH

Date Received: 12/13/91
Analysis Due : 12/25/91

Number Of Samples : 6
Number Of Containers: 6

Reports: Standard Report Format

Sample I.D.'s P.T.L.--Client	Requested Analytical Services
001 - Sample D01	Flashpoint Purgeable Volatile Organics By Method 8240 Page 1 Purgeable Volatile Organics By Method 8240 Page 2
002 - Sample D03	Sulfite (As SO3) In Solid Phase
003 - Sample D04	Polychlorinated Biphenyls In Oil
004 - Sample D05	Flashpoint Volatile Organics By GCMS - Method 624 Page 1 Volatile Organics By GCMS - Method 624 Page 2
005 - Sample D06	Flashpoint Volatile Organics By GCMS - Method 624 Page 1 Volatile Organics By GCMS - Method 624 Page 2
006 - Sample A07	Asbestos In Bulk/Non-Aqueous Sample By PLM

Notes:

1. Samples originated from Weston, Wheeling, WV 26003.
2. Extra copy of report to: Roy F. Weston, Inc.
141 Waddles Run Rd., Wheeling WV 26003.
Attn: Pat Bishop
3. Samples came in after 11:00 a.m. 12/11/91.
4. Per Client's instructions to H Menzel, for Sample D04, run only the oil portion for PCB. Flashpoint to All Service.
5. Please see attached list for Detection limit.
6. NOTE THAT FOR RESULTS EXCEEDING THE PRESCRIBED TURNAROUND TIME (IN CALENDAR DAYS), A REDUCTION IN THE TOTAL CHARGE WILL BE THREE PERCENT FOR THE FIRST DAY, TWO PERCENT FOR THE SECOND DAY, AND AN ADDITIONAL ONE PERCENT FOR EACH ADDITIONAL DAY.

Job Type: Standard/PLM

Received By Lab: _____
Reviewed By: _____
Q.A. Approved: _____

Initials/Date

Printed By: Chris Jamieson

Date: 01/07/92

AR 108360 16:57:12



U.S. Environmental Protection Agency

CHAIN OF CUSTODY RECORD

Printed: 04/11/2008 12:00:00 PM FAX: 04/11/2008

CLIENT: Weston PTL JOB NO. 111236

CONTACT: Alan, Anthony FIELD SUPERVISOR _____

PHONE NO. _____ COMPANY _____

SAMPLING SITE _____ PHONE NO. _____

Page _____ of _____

SAMPLE IDENTIFICATION	MATRIX	COLLECTION			CONTAINER		ANALYSES REQUIRED (Specify Method if Known)	REMARKS (Specify QA/QC, preservation required, due date, etc.)
		COMP.	GRAB	DATE	TIME	TYPE		
D01	SUA					G	1	Flashpoint, 624/6240
D03	SUA					G	1	Surface
D05						G	1	Flashpoint, 624
D06						G	1	Flashpoint, 624
A07						G	1	Checks by PLM

LABORATORY SEAL NO. 51 FIELD SEAL BROKEN BY _____

SEALED ON _____ AT _____ (Date) _____ AT _____ (Military Time)

UNSEALED ON _____ AT _____ (Date) _____ AT _____ (Military Time)

SAMPLING COMPLETED ON _____ (Date) _____ AT _____ (Military Time)

REMARKS _____

MEANS OF TRANSPORT _____

RECEIVED BY (Print and Sign Name): Alan Anthony DATE: 12/2/91 TIME: 11:16

RECEIVED BY (Print and Sign Name): [Signature] DATE: 12/17/91 TIME: 17:30

RECEIVED BY (Print and Sign Name): [Signature] DATE: 12/13/91 TIME: 10:30

RECEIVED BY (Print and Sign Name): [Signature] DATE: 12/16/91 TIME: 14:00

REASON FOR CHANGE OF CUSTODY: 60gms Lat

0000

ORIGINAL - Lab Copy 3/60
 PINK - Transfer Copy
 YELLOW - Transfer Copy

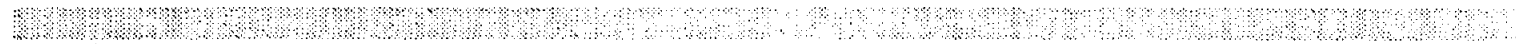


princeton testing
laboratory inc.

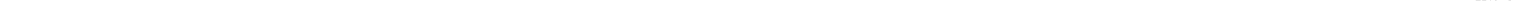
P.O. Box 3108
3490 U.S. Route 1
Princeton, NJ 08543-3108
(609) 452-0000
FAX (609) 452-0000

Weston TAT
5 Underwood Court
Delran, New Jersey 08075
Attention: Marian Murphy

Report Date: 01/02/92
Job Number: 9108360-001GMWH
Date Received: 12/13/91



Analyses	Sample I.D.:	Sample D01	Sample D03	Sample D05
Flashpoint in degress fahrenheit		<50° F N/R	N/R 67,800	<50° F N/R
Sulfite in mg/kg			6.7%	



Analysis	Sample I.D.:	Sample D06
Flashpoint in degress fahrenheit		139° F - Combust

N/R = Not Requested

Edna A. Alinea
Edna A. Alinea, V.P., Manager
Water, Wastewater, and Microbiology

For inquiries call us at (609) 452-9050 and ask for our Customer Service Department

Member: American Council of Independent Laboratories, Inc.

NR100636

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princeton testing
laboratory inc.

P.O. Box 3108
3490 U.S. Route 1
Princeton, NJ 08543-3108
(609) 452-9050
FAX (609) 452-0347

Weston TAT
5 Underwood Court
Delran, New Jersey 08075
Attention: Marian Murphy

Report Date: 01/07/92
Job Number: 9108360-001GMWH
Date Received: 12/13/91

Analysis: Polychlorinated Biphenyls In Oil
Units: mg/kg

Parameters	Sample I.D.:	Sample D04	Blank 12/23/91
Aroclor 1221		<5	<5
Aroclor 1232		<5	<5
Aroclor 1242		<5	<5
Aroclor 1248		<5	<5
Aroclor 1254		<5	<5
Aroclor 1260		<5	<5
Aroclor 1016		<5	<5

RECOVERY DATA

† Aldrin (Surr.)	(55-145%)	47%	159%
------------------	-----------	-----	------

NOTE: Low recovery due to extensive sulfuric acid cleanup.

Jane Dennison, Supervisor
Gas Chromatography Laboratory

For inquiries call us at (609) 452-9050 or ask for our Customer Service Department

Member: American Council of Independent Laboratories, Inc.

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TOPICWARE Version: 3.11 2811

Date: 1/3/82 10:57

Sample Name : 1560, DDBS S.V. P16

Data File : D:\2700\04740.12170001.raw Date: 12 18 81 410

Sequence File: none. Cycles: 25 Channel: 4

Instrument: VARIAN 3400 Sample Inj: 1.0 Injection: 10

Sample Amount : 1.0000 Dilution Factor : 1.00

Princeton Testing Laboratory Analysis Report

PESTICIDES AND PCB'S BY CAPILLARY CHROMATOGRAPH

Peak #	Ret. Time [min]	Component Name	Raw Report [ug/ml]	Concentration [ug/ml]	Area [cps-sec]	Height [u]	Retention [s]	Reference Compound	Lab. Range	Calculated Factor
1	0.140		-0.0000	-0.0000	185697.64	13651.45	88			-0.0000
2	0.167		1.4900	1.4900	2580508.00	1.4766	88			1.5700e1
3	0.427		0.7016	0.7016	780000.00	1.0766	88			1.0040e1
4	0.567	2-DCI	0.0000	0.0000	100701.70	13000.40	88	-0.0010 DCI		0.0000e0
5	0.610	HEPTACHLOR	-0.0000	-0.0000	110000.00	20000.00	88	0.1140 DCI		-0.0000
6	0.624		-0.0000	-0.0000	130443.14	20000.40	88			-0.0000
7	0.840	ALDRIN	0.0000	0.0000	4004000.00	4.0000	88	0.0000 DCI		0.0000
8	10.044	HEPTACHLOR EPOX	0.0000	0.0000	160040.00	20000.00	88	-0.0010 DCI		0.0000e0
9	12.045	DIELDRIN	0.0000	0.0000	80100.00	20000.00	88	-0.0010 DCI		0.0000e0
10	13.040	ENDRIN	-0.0000	-0.0000	20000.00	40000.00	88	-0.0010 DCI		-0.0000
11	14.041	ENDRIN ALDE	-0.0000	-0.0000	30000.00	40000.00	88	0.0000 DCI		-0.0000
12	14.071	DCI	0.0000	0.0000	10000.00	10000.00	88	0.0010 DCI		0.0000e0
13	17.438	DCI	0.0000	0.0000	10000.00	10000.00	88	-0.0010 DCI		0.0000e0
			41.0000	41.0000	5670000.00	1.0000				

Varian 3400 Capillary Column GC: DB-1701 30M x 0.53mm I.D. Detector: 3000. Injector: 250 C

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Serial: 110740311

Serial: 1107

Page 1 of 1

File Name: 01-27-00-CATAD-111709.raw

Date: 01-27-00 10:17

Start Time: 0.00 min

End Time: 30.00 min

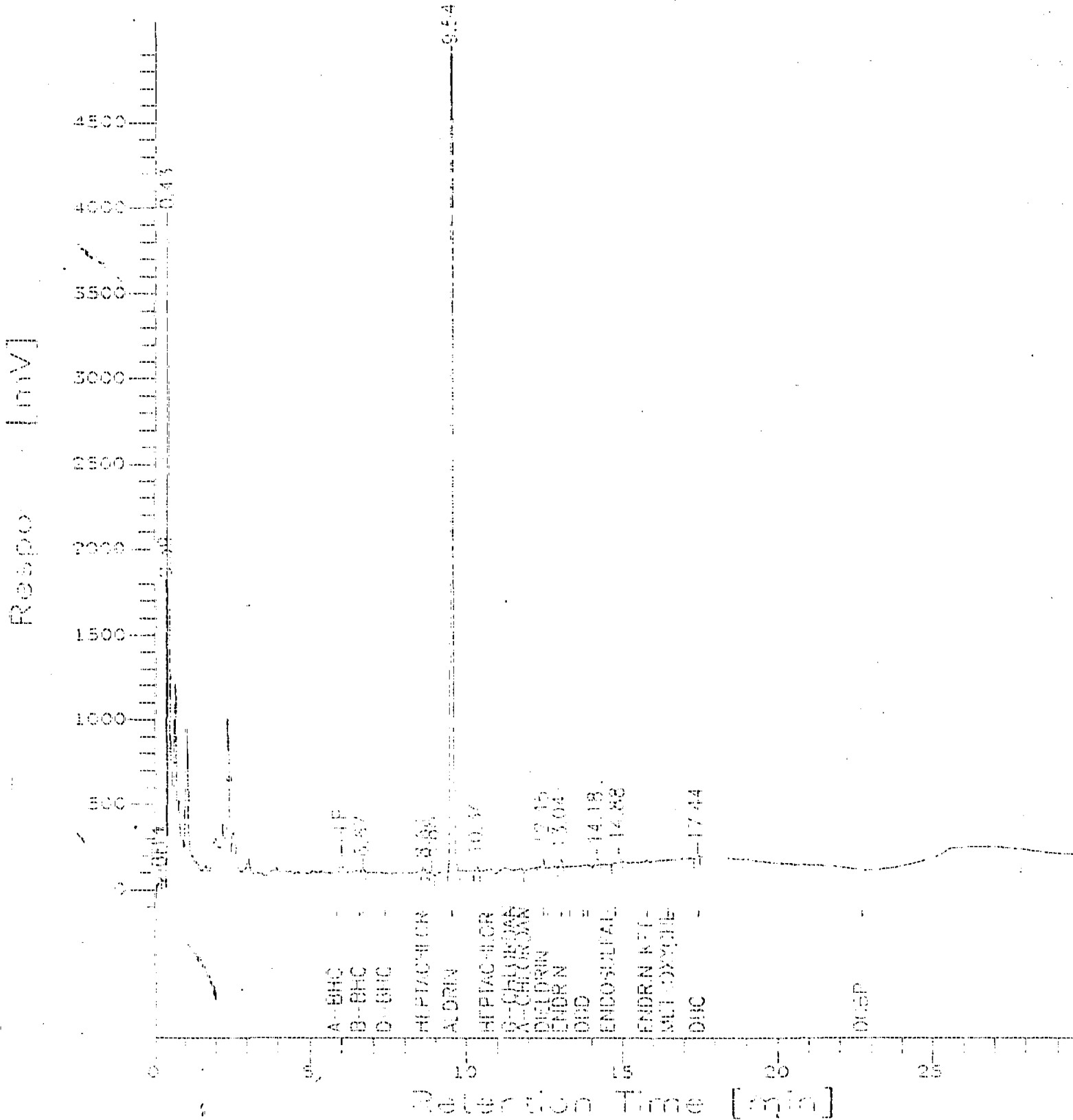
Low Point: -100.00 mV

High Point: 4503.30 mV

Scale Factor: 0

Plot Offset: -100 mV

Plot Scale: 5000 mV



AR100639

00006

Software Version: 3.1 12-23-91
 Date: 12/24/91 19:46
 Sample Name : 8860-3 X5 Acid Cl
 Data File : d:\2700\data3\1224007.raw Date: 12/24/91 19:46
 Sequence File: d:\2700\data3\1224007.seq Cycle: 7 Channel: 4
 Instrument: VARIAN 3400 Rack/Vial: 070 Operator: JT
 Sample Amount : 1.0000 Calibration Factor : 1.00

Princeton Testing Laboratory Analysis Report

PESTICIDES AND PCB'S BY CAPILLARY CHROMATOGRAPHY

Peak #	Ret. Time (min)	Component name	Raw Amount (ugAL)	Concentration (ugAL)	Area (AU-sec)	Height (uV)	St. Dev. RT (s)	Reference Component	Cal. Calibration Range Factor
1	0.128		-1.3454	-0.1454	157102.40	27877.00	0.00		-4.5811
2	4.251		17.5703	17.9901	625270.00	11064.00	0.00		1.4750
3	6.364	0-ENC	29.1764	29.1764	11154507.00	11064.00	0.00	-1.1291 0BC	1.3151
4	6.672	0-ENC	3.7475	3.8478	6693207.00	11064.00	0.00	0.0154 0BC	1.1818
5	6.787		1.1890	1.1890	3215107.70	70050.00	0.00		1.1418
6	6.972		5.3279	5.3275	6630541.50	80745.00	0.00		1.1338
7	7.275		3.8946	3.8946	4113527.10	77314.00	0.00		1.1172
8	7.475	0-ENC	15.9760	15.9760	65747385.00	11064.00	0.00	1.4105 0BC	1.1111
9	7.685		0.1878	0.1878	1287407.00	16247.00	0.00		1.1708
10	7.746		0.6954	0.6954	1098070.00	23870.00	0.00		1.1374
11	7.907		9.0611	9.0611	1600277.00	11064.00	0.00		1.1470
12	8.118		2.3363	2.3366	3132339.00	60375.00	0.00		1.1401
13	8.158		0.1357	0.1357	1727671.10	35049.00	0.00		0.1138
14	8.406		0.9081	0.9080	1617901.80	21327.00	0.00		1.1708
15	8.636	HEPTACHLOR	0.5678	0.5670	1595540.10	17850.00	0.00	-0.1881 0BC	1.1438
16	8.736		-0.2754	-0.2764	435029.70	11610.00	0.00		-1.1311
17	8.991		2.4502	2.4502	3505491.10	66810.00	0.00		1.1401
18	9.214		1.9073	1.9072	2023363.70	30060.00	0.00		1.1388
19	9.417		4.1164	4.1164	4795267.00	78465.00	0.00		1.1401
20	9.528	ALDRIN	2.1591	2.1591	2338203.50	54725.00	0.00	-0.1880 0BC	1.1308
21	9.696		1.3758	1.3758	1790511.50	25165.00	0.00		1.1308
22	9.910		10.1309	10.1305	21992584.00	11064.00	0.00		1.1328
23	10.140		5.3821	5.3801	5237570.50	11064.00	0.00		1.1338
24	10.355		4.0325	4.0325	3960362.00	48840.00	0.00		1.1308
25	10.585		13.9111	13.9111	13727175.00	11064.00	0.00		1.1378
26	10.770	HEPTACHLOR EPOX	9.3616	9.3616	3957620.00	11064.00	0.00	0.0619 0BC	1.1338
27	10.995		2.1925	2.1925	1427447.60	30567.00	0.00		1.1378
28	11.162		28.6348	28.6348	24163070.00	11064.00	0.00		1.1398
29	11.378	0-CHLORDANE	3.3033	3.3033	1427431.10	27651.00	0.00	-0.2174 0BC	1.1308
30	11.520		4.2742	4.2742	2293627.50	38170.00	0.00		1.1308
31	11.644		2.1547	2.1547	1758436.10	29287.00	0.00		1.1308
32	11.806	ENDO 1	0.9705	0.9705	635801.25	10682.00	0.00	0.7250 0BC	0.5510
33	11.972	0-CHLORDANE	5.0855	5.0855	998346.10	13014.00	0.00	1.1310 METHOXYCHLOR	1.1438
34	12.080		4.3365	4.3365	344121.72	52142.00	0.00		1.1310
35	12.280		5.9838	5.9838	4474984.50	50000.00	0.00		1.1168
36	12.465	DIELDRIN	4.2284	4.2284	2796173.50	36769.00	0.00	-0.0410 0BC	1.1178
37	12.787	0DE	11.3552	11.3552	7953914.50	72717.00	0.00	1.1564 0BC	1.1310
38	13.014	ENDRIN	11.5275	11.5275	9262067.00	56633.00	0.00	-0.1853 0BC	1.1308
39	13.274	ENDO 2	-1.6745	-1.6745	1182558.60	23345.00	0.00	-0.1432 0BC	-1.1344

40	13.538		13.7873	11.7573	6582356.00	364112.00	VV	-----	4.0170
41	13.733	000	71.999	7.1999	2918711.00	412252.56	VV	-0.2437	0.00
	13.934	ENDRIN ALDE	6.0954	6.0954	3391266.00	354352.47	VV	0.4526	0.00
	14.133		6.1626	6.1626	3026392.75	475013.63	VV	-----	5.3672e8
44	14.437	HEXACHLORATE	27.6473	27.6473	17418633.00	1.0000	BV	-0.2237	0.00
45	14.718	DDT	19.3114	19.3114	3771291.00	1.1168	VV	-0.4012	0.00
46	14.951		21.3594	21.3594	11132277.00	584877.44	VV	-----	6.0562
47	15.193		14.4072	14.4072	7316071.00	674269.44	VV	-----	6.0730
48	15.340		3.4247	3.4247	1699413.75	394379.74	VV	-----	6.7627e5
49	15.496		0.1338	0.1338	635631.59	90169.62	BV	-----	3.4203e4
50	15.579		0.7595	0.7595	707136.00	107889.25	VV	-----	8.9433e4
51	15.718		3.2702	3.2702	2098602.00	306626.97	VV	-----	6.4023e4
52	15.871	ENDRIN NITONE	0.5326	0.5326	58023.09	117354.50	AV	0.1334	0.00
53	15.951		0.1371	0.1371	1624042.00	173711.01	BV	-----	2.0013e4
54	16.121		-0.5345	-0.5345	364174.00	223384.44	VV	-----	-0.0000
55	16.416		0.6480	0.6480	61482.00	267111.19	VV	-----	1.0712e4
56	16.574	HEXACHLORALDE	25.6078	25.6078	4110487.50	484103.19	VV	0.4011	0.00
57	16.738		5.0361	5.0361	1774494.50	333111.50	VV	-----	1.4813e4
58	17.031		1.8421	1.8421	820815.21	207321.31	BB	-----	4.4021e4
59	17.218		3.5193	3.5193	231803.71	607621.31	BB	-----	4.4021e4
60	17.411		0.2254	0.2254	100495.00	44493.70	BV	-----	4.4021e4
61	17.535	0.00	5.6571	5.6571	2763323.75	474821.23	VV	0.2820	0.00
62	17.536		2.0708	2.0708	923402.44	141321.31	BV	-----	4.4021e4
63	18.107		4.3087	4.3087	1787047.00	155313.37	VV	-----	4.4021e4
64	18.133		0.3384	0.3384	150970.00	65737.30	BB	-----	4.4021e4
65	18.400		0.1229	0.1229	14821.00	73131.20	BB	-----	4.4021e4
66	18.494		0.5753	0.5753	274330.44	73471.30	BB	-----	4.4021e4
67	18.591		3.6901	3.6901	313024.20	86441.10	BB	-----	4.4021e4
68	18.701		6.5207	6.5207	2407460.75	404821.20	BB	-----	4.4021e4
69	18.816		0.0607	0.0607	17051.00	15479.30	BB	-----	4.4021e4
70	18.849		1.2452	1.2452	77021.00	23441.31	BV	-----	4.4021e4
71	18.891		1.0077	1.0077	449152.00	77371.29	VV	-----	4.4021e4
72	18.923		0.7819	0.7819	437532.09	79254.23	BB	-----	4.4021e4
73	18.951		0.4071	0.4071	151879.00	39640.93	BV	-----	4.4021e4
74	20.137		13.7724	13.7724	6143563.50	327481.07	VV	-----	4.4021
75	20.400		-0.5723	-0.5723	911294.94	105609.12	VV	-----	-0.1371
76	20.450	0.00	-2.2302	-2.2302	140722.50	21282.40	BB	1.9368	0.00
77	20.703		-0.5668	-0.5668	270577.50	67941.71	BB	-----	-0.0000
78	20.850		-2.2209	-2.2209	140121.50	26741.47	BB	-----	-0.4021
79	20.938		-0.9893	-0.9893	93470.50	9170.77	BB	-----	-0.1371
80	20.990		-0.3330	-0.3330	51201.10	1407.59	BB	-----	-0.0750
81	21.130		1.0018	1.0018	2121379.10	159781.43	BB	-----	1.0442e4

401.1703 401.1713 1.4487 4.4347

=====
 Varian 3400 Capillary Column GC: DB-1701 30M x 0.5mm I.D. Detector: ECD
 Injector: 250 C
 =====

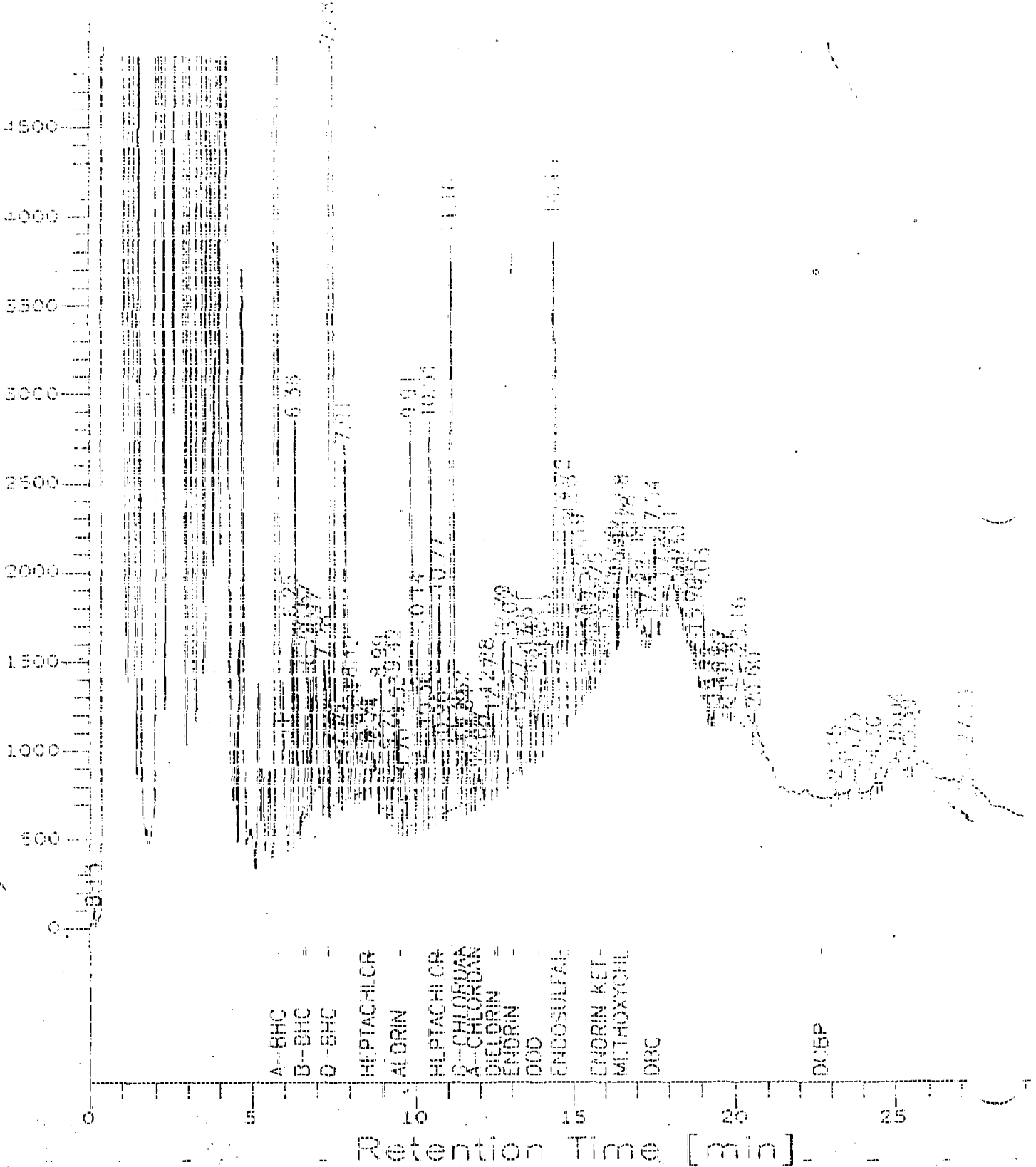
Pesticides / PCBs Chromatogram

Sample Name : 8100-1 15 Acid 11
 File Name : c:\MSDCHEM\1000007.m
 Start Time : 0:00 min End Time : 10:00 min
 Scale Factor : 0 Plot Offset : -100 mV

Scale to :
 Date : 11/24/92 10:47
 CW Point : -100.00 mV
 Plot Scale : 1000 mV

Page 1 of 1

Response [mV]



ARI00642

00009

```

*****
Software Version: 5.1  QARS
Date: 11/21/71  8:31
Sample Name : 1221 300UG/L
Data File : CR1700\data5\112100.raw  Date: 11/21/71  8:31
Sequence File: D:\1700\DATA5\1121--.seq  (Vial: 11  Channel: A
Instrument : VARIAN 3400  Rack Vial: 0-0  Operator: AC
Sample Amount : 1.0000  Dilution Factor : 1.000
*****

```

Princeton Testing Laboratory Analysis Report

PESTICIDES AND PCB'S BY CAPILLARY CHROMATOGRAPHY

Peak No.	Time (min)	Component Name	Raw Conc. (ug/l)	Concentration (ug/l)	Area (x10 ⁴)	Height (µ)	El. Delta (RT)	Reference Component	Cal. Dilution Factor
1	0.113		0.3420	0.0000	340013.44	33613.72	25		1.00000
2	4.725		0.3001	0.0000	300411.75	31328.40	25		1.00000
3	5.402		1.0959	0.0000	1095377.35	207143.31	25		1.00000
4	5.573		0.7175	0.0000	717504.10	143561.42	27		1.00000
5	5.531		3.9053	0.0000	3903038.50	533253.69	26		1.00000
6	8.257		0.3097	0.0000	307744.35	54792.16	32		1.00000
7	8.330		0.4204	0.0000	420327.06	64295.50	31		1.00000
8	8.370		0.5140	0.0000	514094.31	67475.24	32		1.00000
9	14.202		0.8560	0.0000	855904.50	134971.42	32		1.00000
10	14.710		0.5072	0.0000	507137.74	117499.72	33		1.00000
			3.1263	0.0000	3126257.00	1.4494			

Varian 3400 Capillary Column GC: CE-408 30M x 0.33mm I.D. Detector: 200C
 Injector: 250 C

AR100643

00040

Sample Name : 1001 000001

Sample # : 11

Page : 1 of 1

File Name : 0101000001\1001000001.raw

Date : 11/01/2001

Start Time : 0.00 min

End Time : 31.00 min

Low Point : -111.00 mV

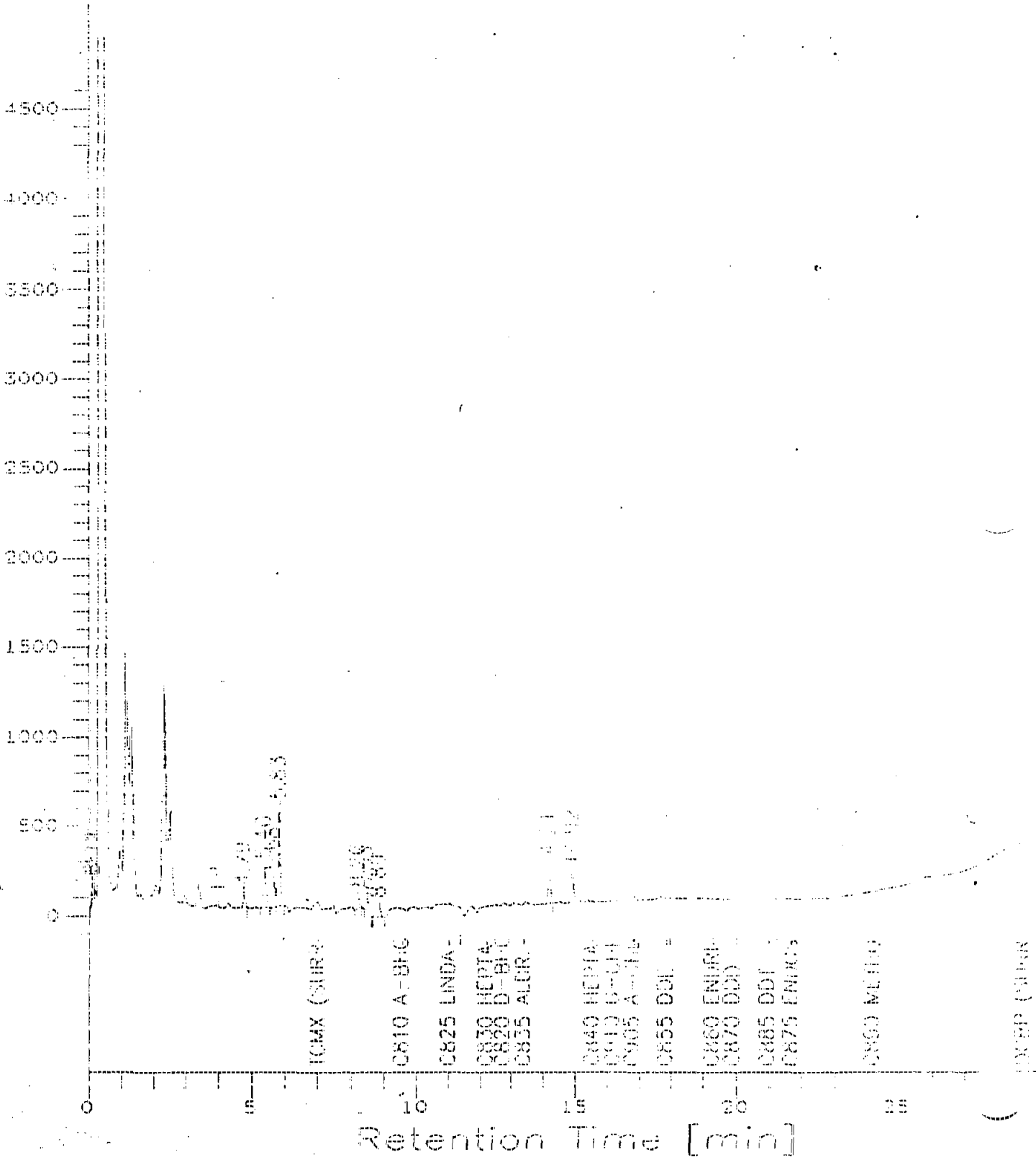
High Point : 411.00 mV

Scale Factor : 0

Plot Offset : -100 mV

Plot Scale : 100 mV

Response [mV]



AR100644

110001

Software Version: 3.1 422030
 Date: 11/21/91 7:00
 Sample Name : 1015 300067L
 Data File : d:\2700\data3\1121022.raw Date: 11/21/91 8:51
 Sequence File: C:\2700\DATA3\1121022.seq Inlet: 12 Inlet: 4
 Instrument : VARIAN 3400 Rack/Visib: C.I Operator: AK
 Sample Amount : 1.0000 Dilution Factor : 1.00

Princeton Testing Laboratory Analysis Report

PESTICIDES AND PCB'S BY CAPILLARY CHROMATOGRAPHY

Peak #	Ret. Time (min)	Component Name	Raw Amount (ug/L)	Concentration (ug/L)	Area (mV-sec)	Height (mV)	Delta T (min)	Reference Component	Lab. Calibration Range	Calibration Factor
1	0.153		0.0147	0.0030	214707.34	15015.30	50			1.0000e1
2	4.803		0.0113	0.0030	211827.01	41211.28	50			1.0000e0
3	5.414		0.0113	0.0030	387479.38	35413.91	50			1.0000e0
4	5.556		0.0010	0.0000	103600.30	10771.33	50			1.0000e0
5	5.839		2.3375	0.0000	230700.30	41811.35	50			1.0000e1
6	5.951		3.1934	0.0000	173339.75	42611.35	50			1.0000e1
7	6.379	TCDF 10.000	5.0000	1.0000	104000.00	41111.36	50	TCDF 10.000		1.0000e1
8	7.058		2.2017	0.0000	201001.30	35111.31	50			1.0000e0
9	7.481		2.2452	0.0000	224310.00	47111.30	50			1.0000e0
10	8.002		1.5759	0.0000	375111.30	34011.31	50			1.0000e0
11	8.247		1.4110	0.0000	541110.30	31111.31	50			1.0000e0
12	8.513		2.9711	0.0000	297101.31	34111.31	50			1.0000e0
13	8.738		2.0004	0.0000	200001.31	41111.30	50			1.0000e0
14	9.203		0.7513	0.0000	471111.31	15111.31	50			1.0000e0
15	9.356		2.0040	0.0000	100400.30	32111.30	50			1.0000e0
16	9.459	CB10 1.000	1.0001	1.0001	101000.30	10111.31	50	CB10 1.000		1.0000e0
17	9.811		1.0301	0.0000	103010.40	32111.30	50			1.0000e0
18	10.147		2.4770	0.0000	247700.30	44111.31	50			1.0000e0
19	10.379		0.3972	0.0000	397100.40	33111.30	50			1.0000e0
20	10.929		0.5360	0.0000	53527.30	37111.31	50			1.0000e0
21	10.948	CB10 1.000	1.5327	1.5327	75930.40	14011.31	50	CB10 1.000		1.0000e0
22	11.045		0.5762	0.0000	57620.44	15111.31	50			1.0000e0
23	11.522		0.1550	0.0000	102700.30	10111.31	50			1.0000e0
			30.0045	1.0000	3140000.00	1.0000				

Varian 3400 Capillary Column GC: DB-502 30M x 0.53mm I.D. Detector: 3000
 Injector: 250 C

AR100647

Pesticide AFB Chromatogram

Sample Name : 1015 3306/L

Sample #: 12

Page 1 of 1

File Name : 01:2700\data\3306\1015001.ms

Date : 11/21/01 10:17:00

Start Time : 0.00 min End Time : 30.00 min

Use Point : 1000.00 mV

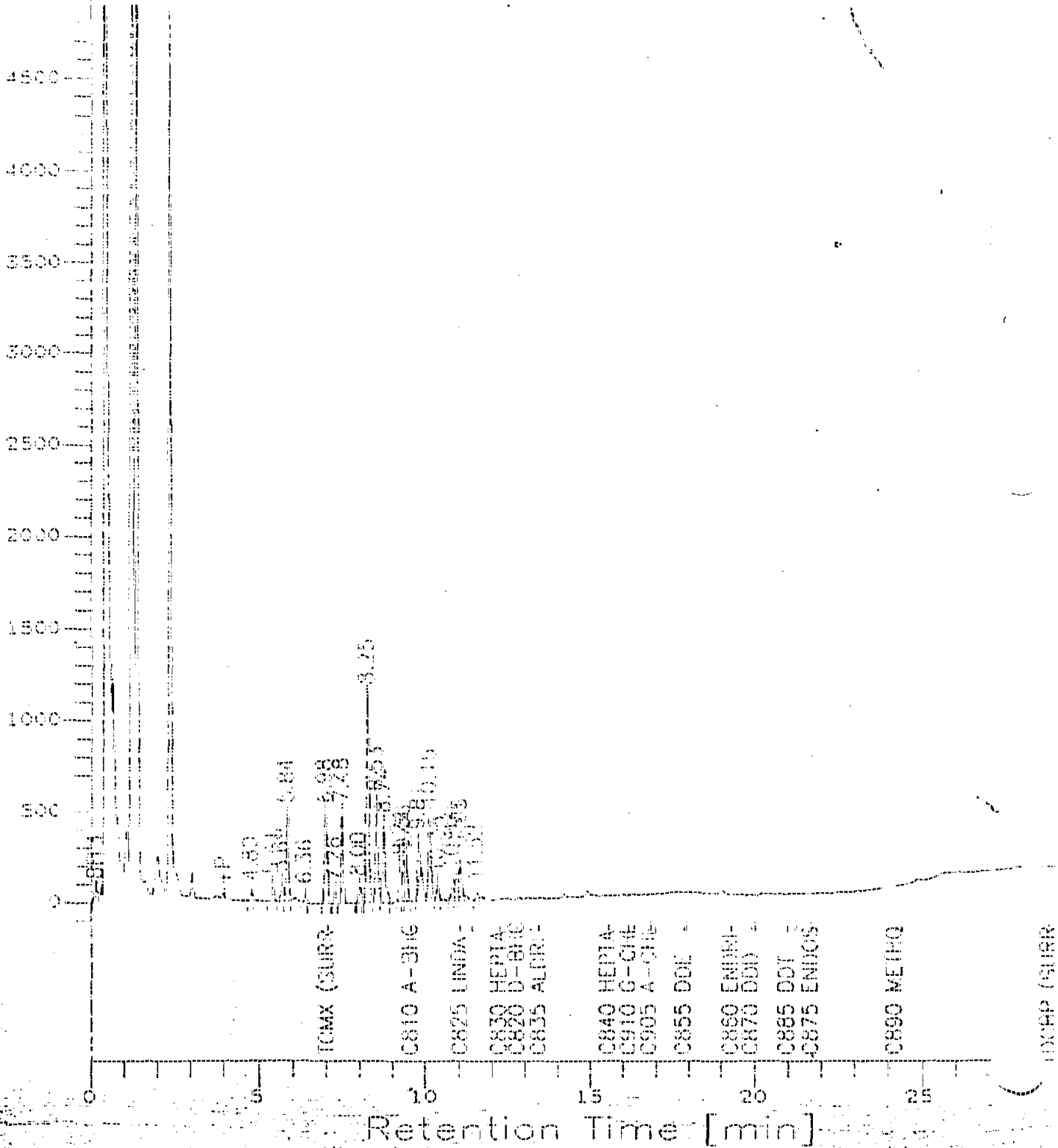
High Point : 4100.00 mV

Scale Factor : 0

Plot Offset : 100 mV

Plot Scale: 5000 mV

Response [mV]



Retention Time [min]

Software Version: 3.1 (DATE
 Date: 11/21/91 Time:
 Sample name : 1041 400UG L
 Data File : d:\2700\DATA\11041\11041.DAT Date: 11/21/91 Time:
 Source File: D:\2700\DATA\11041\11041.DAT Date: 11/21/91 Time:
 Instrument : VARIAN 3400 Rack Vial: 070 Operator: --
 Sample Amount : 1.0000 Dilution Factor : 1.00

Princeton Testing Laboratory Analysis Report

PESTICIDES AND PCB'S BY CAPILLARY CHROMATOGRAPHY

Peak #	Ret. Time (min)	Component Name	Raw Amount (ug)	Concentration (ug/l)	Area (10 ⁵ sec)	Height (10 ⁴)	St. Dev. (10 ⁴)	Reference Compound	Cal. Dilution Factor
1	0.128		0.2143	0.2143	114110.47	17351.77	55		1.0000e
2	4.394		1.1926	0.2000	157433.36	44574.51	52		1.0000e
3	5.438		0.2354	0.2000	59340.47	9351.55	55		1.0000e
4	5.589		0.4376	0.2000	43759.59	9501.21	54		1.0000e
5	5.944		2.2912	0.2000	209113.73	47043.54	42		1.0000e
6	6.565		1.1733	0.2000	113190.71	43131.84	51		1.0000e
7	6.975	TCDF (1,2,3,4)	6.2415	1.2483	333346.20	57248.34	54	TCDF (1,2,3,4)	1.0000e
8	7.295		3.4447	0.2000	444833.37	9504.71	42		1.0000e
9	7.430		1.7190	0.2000	271313.71	54471.44	51		1.0000e
10	8.075		1.5063	0.2000	106212.51	45131.71	52		1.0000e
11	8.231		7.3914	0.2000	739124.50	11246.51	52		1.0000e
12	8.559		2.8930	0.2000	289302.10	54131.44	52		1.0000e
13	8.740		1.9035	0.2000	190351.50	45131.44	51		1.0000e
14	9.133		1.2946	0.2000	129461.75	45131.44	54		1.0000e
15	9.359		1.2876	0.2000	128761.25	44131.21	48		1.0000e
16	9.441	TCDF (1,2,3,4)	1.2874	1.2874	193443.00	45131.44	42	TCDF (1,2,3,4)	1.0000e
17	9.516		5.2356	0.2000	523562.25	37236.75	54		1.0000e
18	10.130		5.2066	0.2000	520664.75	54131.33	54		1.0000e
19	10.381		0.5805	0.2000	58045.25	112362.61	42		1.0000e
20	10.555		1.0532	0.2000	105321.51	20231.13	54		1.0000e
21	10.952	CBDF (1,2,3,4)	2.2640	2.2640	182246.25	54365.97	48	TCDF (1,2,3,4)	1.0000e
22	11.046		1.4541	0.2000	145401.50	43231.97	48		1.0000e
23	11.524		1.6078	0.2000	160781.00	44639.33	52		1.0000e
24	11.842		1.2711	0.2000	127111.51	42131.53	52		1.0000e
25	12.525		0.1639	0.2000	163847.25	11236.33	54		1.0000e
26	12.645		1.3051	0.2000	131101.51	7436.13	42		1.0000e
27	12.754	CBDF (1,2,3,4)	2.4831	1.4831	673131.25	17444.11	55	TCDF (1,2,3,4)	1.0000e
28	17.332		1.2573	0.2000	127281.00	43131.47	52		1.0000e
29	17.510	CBDF (1,2,3,4)	1.2583	1.2583	633131.51	11131.57	52	TCDF (1,2,3,4)	1.0000e
30	18.249		0.5087	0.2000	50865.71	80131.13	52		1.0000e
31	18.907		1.1643	0.2000	116410.56	32136.54	52		1.0000e
			49.9339	13.4620	44319424.00	1.9566			

Varian 3400 Capillary Column GC: DB-603 30M X 0.50mm I.D. Detector: 3000
 Injector: 250 C

ARI00649

00016

Pesticide/PCB Chromatogram

Sample Name : 1247 40303.1

Sample #: 23

Page 1 of 1

FileName : d:\2300\data\1121\003.rev

Date : 11/21/91 7:37

Start Time : 0.00 min

End Time : 30.00 min

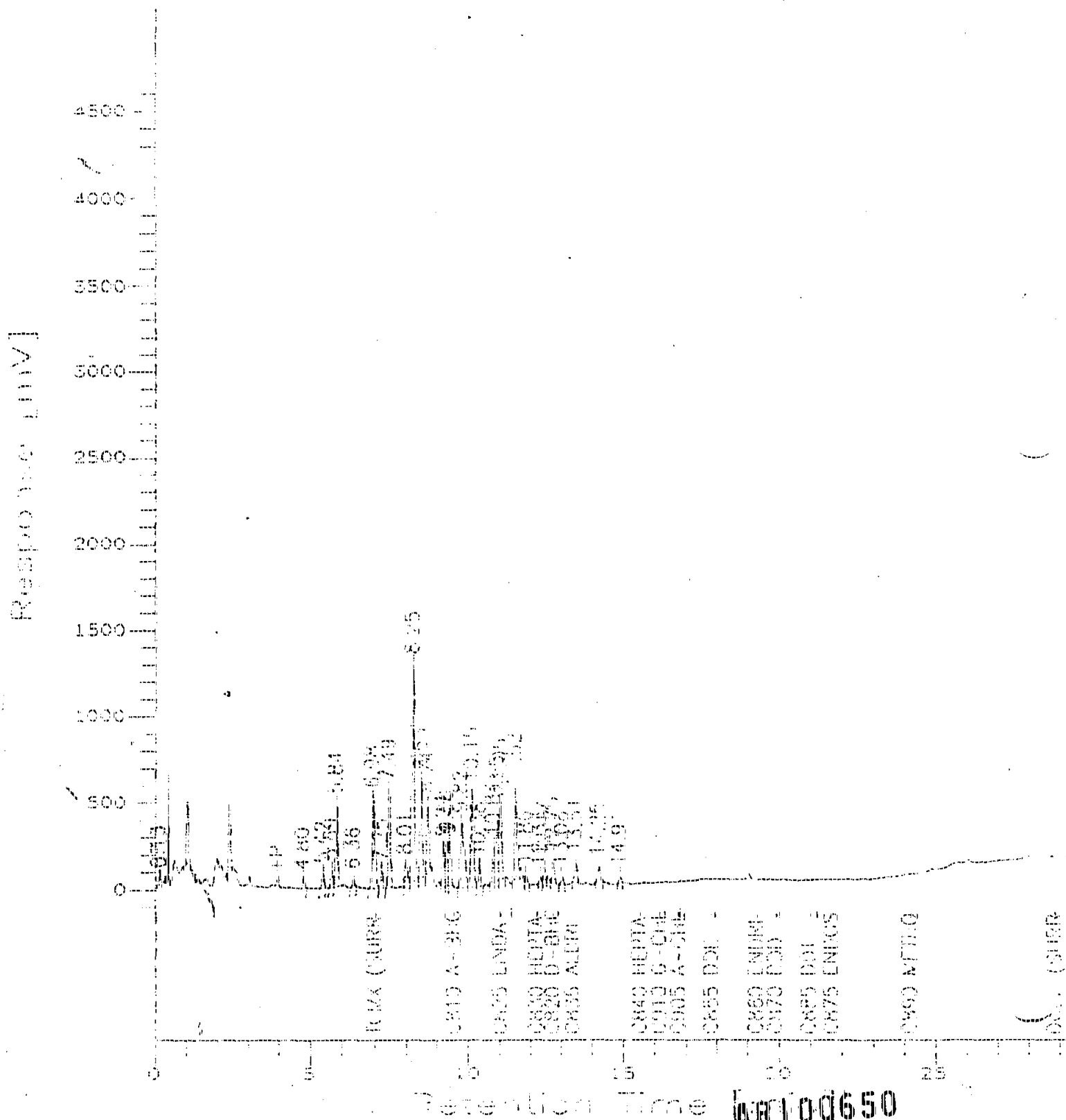
Low Point : -100.00 mV

High Point : 4900.00 mV

Scale Factor: 0

Plot Offset: -100 mV

Plot Scale: 5000 mV



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=====
Software Version: 3.1 (2923)
Date: 11/21/91 8:11
Sample Name : 1248 300UG/L
Data File : G:\CT00\data3\1121004.raw Date: 11/21/91 7:41
Sequence File: G:\CT00\DATA3\1121004.seq Inlet: 14 Channel: 9
Instrument : VARIAN 3400 Rack/Vial: 070 Operator: RA
Sample Amount : 1.0000 Dilution Factor : 1.00
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Princeton Testing Laboratory Analysis Report

PESTICIDES AND PCB'S BY CAPILLARY CHROMATOGRAPHY

Peak #	Ret. Time (min)	Component Name	Raw Amount (ug/L)	Concentration (ug/L)	Area (sq-sec)	Height (uV)	SL Delta R ² (%)	Reference Compound	Cal. Range	Cal. Factor
1	0.115		0.2415	0.0000	241534.86	22954.07	88			1.0000e0
2	6.550	TCDF (SURF)	2.5195	2.5195	1097995.50	173561.84	88	TCDF (SURF)		4.1191e8
3	7.458		0.7688	0.0000	768888.81	161888.97	88			1.0000e0
4	8.158		1.5893	0.0000	5594307.75	524616.69	87			1.0000e0
5	8.507		1.5857	0.0000	1128711.75	211770.41	88			1.0000e0
6	8.789		0.7602	0.0000	960204.84	163317.17	88			1.0000e0
7	8.858		0.7787	0.0000	778875.86	113044.31	88			1.0000e0
8	9.323		0.8564	0.0000	856487.44	114280.28	88			1.0000e0
9	9.344	CB10 A-EMC	1.7615	0.7615	245875.44	13880.77	88	TCDF (SURF)		4.1191e8
10	9.801		1.6554	0.0000	1655386.30	840181.50	88			1.0000e0
11	10.144		0.4495	0.0000	844433.80	892821.25	88			1.0000e0
12	10.370		0.6310	0.0000	631037.75	133342.21	88			1.0000e0
13	10.800		1.0775	0.0000	1077491.75	216740.16	88			1.0000e0
14	10.940	TCDF (SURF)	1.0780	1.0780	2174818.00	111111.81	88	TCDF (SURF)		4.1191e8
15	11.037		1.4473	0.0000	1447040.25	681186.85	88			1.0000e0
16	11.515		1.0750	0.0000	880000.00	840000.75	88			1.0000e0
17	11.708		1.0170	0.0000	1017044.25	203216.84	88			1.0000e0
18	11.855		1.4353	1.0000	435316.41	75759.84	88			1.0000e0
19	12.515		0.4058	0.0000	601747.69	117687.41	88			1.0000e0
20	12.441		1.4458	0.0000	244535.85	252181.81	88			1.0000e0
21	12.576	CB20 B-EMC	2.4707	2.4707	710345.80	147133.41	88	TCDF (SURF)		4.1191e8
22	13.244		1.1855	0.0000	2185315.10	873411.16	88			1.0000e0
23	13.630	CB25 ALONIN	1.2648	1.2648	448221.25	114088.31	88	TCDF (SURF)		4.1191e8
24	13.890		1.2670	0.0000	2670287.75	171094.38	88			1.0000e0
25	14.225		1.2656	0.0000	265573.50	81074.59	88			1.0000e0
26	14.303		1.2452	0.0000	1245170.10	121580.10	88			1.0000e0
			48.1917	1.9531	4181976.80	71196				

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=====
Varian 3400 Capillary Column GC: DB-608 30M X 0.53mm I.D. Detector: 300C.
Injector: 250 C
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Pesticide/PCB Chromatogram

Sample Name : 1248 1000671

Sample #: 24

Page 1 of 1

FileName : d:\2700\data\11101014.raw

Date : 11/21/91 9:11

Start Time : 0.00 min End Time : 30.00 min

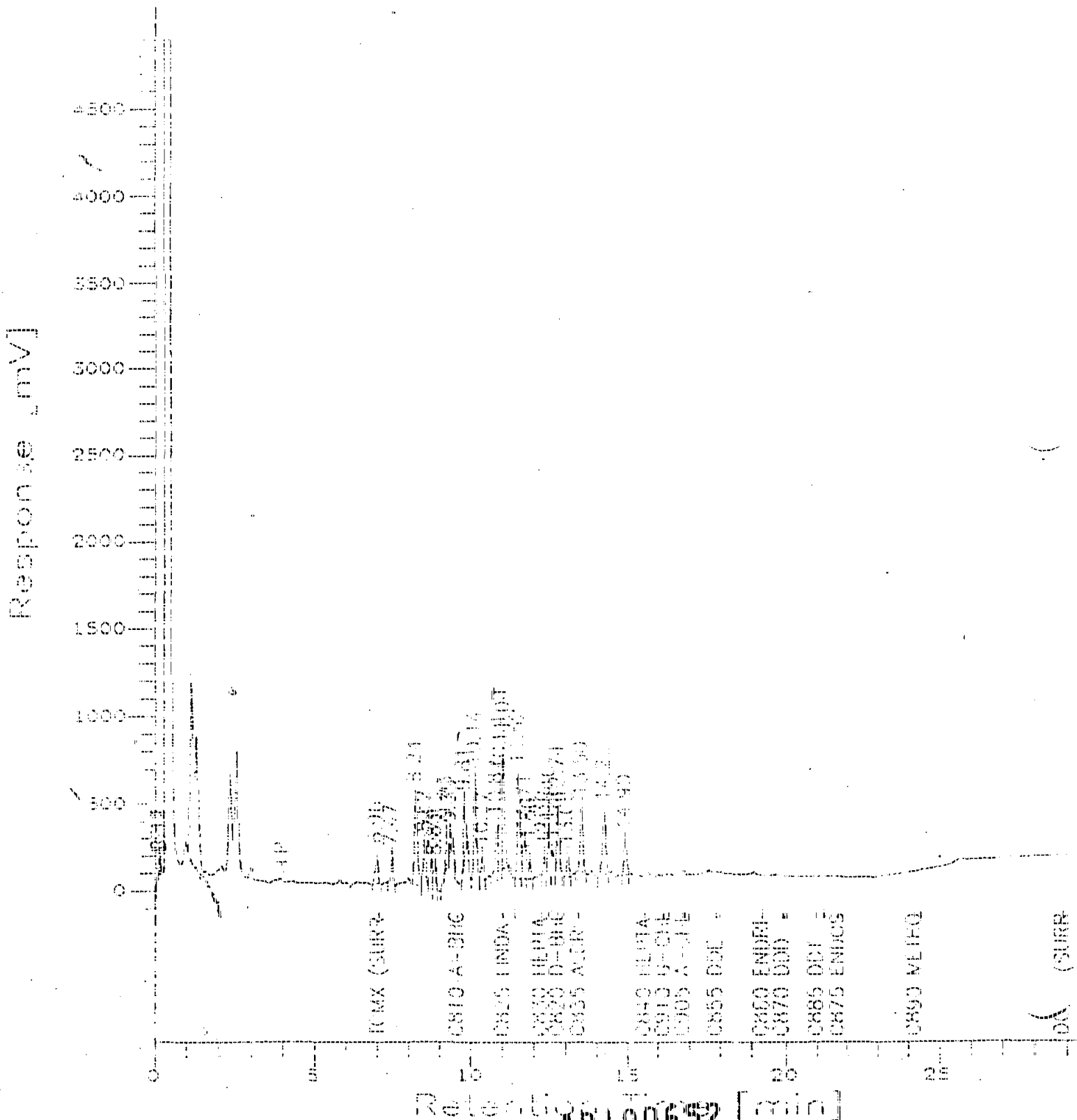
Low Point : -100.00 mV

High Point : 4700.00 mV

Scale Factor: 0

Plot Offset: -100 mV

Plot Scale: 5000 mV



AR100652

0001


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=====
Software Version: 5.1 (2923)
Date: 11/21/91 9:55
Sample Name : CHLORDANE 150000
Data File : CHA27000\data\1121027.raw Date: 11/21/91 9:55
Sequence File: CHA27000\data\1121027.seq Cycle: 27 Channel: 4
Instrument : VARIAN 3400 Rack/Vial: GC/ Operator: P
Sample Amount : 1.0000 Dilution Factor : 1.00
=====

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Princeton Testing Laboratory Analysis Report

PESTICIDES AND PCB'S BY CAPILLARY CHROMATOGRAPHY

Peak #	Ret. Time (min)	Component Name	Raw Amount (ug/L)	Concentration (ug/L)	Area (uV-sec)	Height (uV)	El. Vol. (uL)	Reference Component	Cal. Coefficient
1	0.132		0.0000	0.0000	208417.40	11047.00	00		1.0000e0
2	5.035		0.0000	0.0000	450451.00	20745.00	00		1.0000e0
3	6.170		0.0000	0.0000	736514.78	34007.00	00		1.0000e0
4	6.897		0.0000	0.0000	714201.00	31051.00	00		1.0000e0
5	7.145	TCM (SURF)	1.2756	1.2756	137140.41	43134.00	00	TCM (SURF)	1.0000e0
6	7.536		0.0000	0.0000	759778.00	31141.00	00		1.0000e0
7	7.805		0.0000	0.0000	130591.30	37356.00	00		1.0000e0
8	8.102		4.4364	0.0000	4464372.00	242100.00	00		1.0000e0
9	8.638		5.0000	1.0000	5000197.00	254200.00	00		1.0000e0
10	9.044		0.5455	1.0000	545305.00	212100.00	00		1.0000e0
	9.210		1.1411	1.0000	114109.00	10300.00	00		1.0000e0
	9.510		0.5014	1.0000	501070.00	31000.00	00		1.0000e0
13	9.710	CHL D-BPC	1.4715	1.4715	2891960.00	171000.00	00	TCM (SURF)	1.0000e0
14	9.864		1.5000	0.0000	150011.00	31000.00	00		1.0000e0
15	10.172		0.0150	0.0000	150070.00	40000.00	00		1.0000e0
16	10.508		1.1100	0.0000	1110070.00	40000.00	00		1.0000e0
17	10.970		0.0000	0.0000	100000.00	10000.00	00		1.0000e0
18	11.139	CHL LINDANE	1.0100	1.0100	1010000.00	100000.00	00	TCM (SURF)	1.0000e0
19	11.305		1.4204	0.0000	1420410.00	200000.00	00		1.0000e0
20	11.408		10.1000	0.0000	1010000.00	100000.00	00		1.0000e0
21	11.650	CHL D-BPC	7.0191	1.0000	7019100.00	100000.00	00	TCM (SURF)	1.0000e0
22	11.866		9.5004	0.0000	9500000.00	100000.00	00		1.0000e0
23	12.009		1.0000	0.0000	1000000.00	100000.00	00		1.0000e0
24	12.429	CHL MERTHATOL	1.0000	1.0000	1000000.00	100000.00	00	TCM (SURF)	1.0000e0
25	12.515		0.4000	1.0000	400000.00	100000.00	00		1.0000e0
26	13.340	CHL D-BPC	1.0000	1.0000	1000000.00	100000.00	00	TCM (SURF)	1.0000e0
27	13.704	CHL ALDRIN	1.0000	1.0000	1000000.00	100000.00	00	TCM (SURF)	1.0000e0
28	13.931		1.0000	0.0000	1000000.00	100000.00	00		1.0000e0
29	14.732		0.4115	0.0000	411500.00	100000.00	00		1.0000e0

66.4957 19.7163 55619890.00 1.05e7

Varian 3400 Capillary Column GC: DB-608 30M X 0.53mm I.D. Detector: 3000.
Injector: 250 C

AR100653

00020

Pesticide/PCB Chromatogram

Sample Name : CHLORANE 1500G/L

Sample #: 27

Page 1 of 1

Filename : d:\2700\data\1121001.raw

Date : 11/21/91 5:56

Start Time : 0.00 min

End Time : 30.00 min

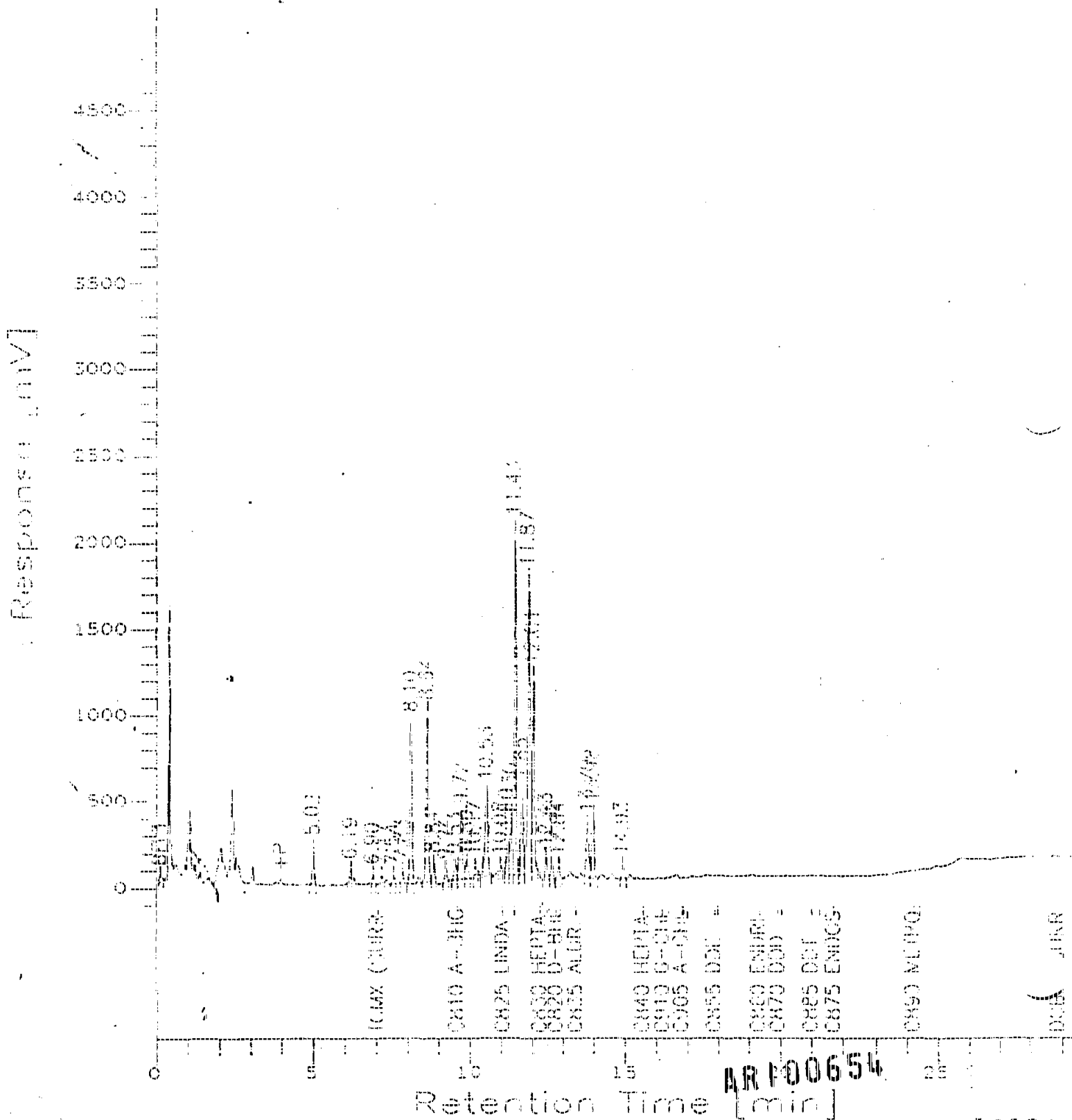
Low Point : -100.00 mV

High Point : 4500.00 mV

Scale Factor: 0

Plot Offset: -100 mV

Plot Scale: 5000 mV



AR 100654

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=====
Software Version: 3.1  DATE
Date: 11/23/81 11:17
Sample Name: 1084-5000.G
Data File: 11/23/81\data\1121044\1084-5000.D
Sequence File: 11/23/81\data\1121044\1084-5000.D
Instrument: VARIAN 2000  Backs: 11 0.0  Coelution: 0.0
Sample Amount: 1.0000  Dilution Factor: 1.000
=====

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Princeton Testing Laboratory Analysis Report

RESTRICTIONS AND RELEASE POLICY: ALL DATA ARE CONFIDENTIAL

Peak #	Time (min)	Component Name	Raw Area (a.u.)	Normalized Area (a.u.)	Area (µV-sec)	Height (µV)	Delta T (s)	Reference Component	Cal. Molar Ratio	Identified Factor
1	2.104		5.1703	3.1754	80896.31	11111.31	11			4.1307e4
2	6.168		14.7407	14.7407	1812263.00	11111.31	11			1.1740e5
3	6.487	6-BHC	4.7401	4.7401	441981.03	12811.07	18	6.487 6-BHC		14021.8110
4	7.784		-0.1827	-0.1827	411948.07	12811.07	18			-1.1710e5
5	8.141		-0.1827	-0.1827	147794.14	14881.73	18			-1.1777e4
6	8.169	HEPTACHLOR	-0.1800	-0.1800	411948.07	12811.07	18	8.169 HEPTACHLOR		-1.1777e4
7	8.387		3.1643	3.1643	501333.74	13111.45	18			3.7130e4
8	10.007		1.1743	1.1743	1177707.71	16773.01	18			1.1043e5
9	10.307	6-PCB	0.2734	0.2734	788479.31	12801.33	18	10.307 6-PCB		3.4410e4
10	10.304		1.1747	1.1747	1017741.43	14833.14	18			1.1021e5
11	10.319		1.4147	1.4147	164811.38	11741.01	18			4.0411e4
12	10.334		1.1002	1.1002	12811.07	12811.07	18			1.1002e4
13	10.337	HEPTACHLOR EPOX	1.1043	1.1043	407803.14	12811.07	18	10.337 HEPTACHLOR EPOX		1.1002e4
14	10.430		1.4010	1.4010	1674449.13	13111.45	18			1.1002e4
15	11.033		4.7381	4.7381	4121707.13	13111.45	18			1.1002e4
16	11.137		1.1000	1.1000	110000.00	11000.00	18			1.1000e4
17	11.560	6-CHLOROCANE	1.0914	1.0914	110000.00	11000.00	18	11.560 6-CHLOROCANE		1.1000e4
18	11.720	ENDO 1	1.0316	1.0316	411948.07	12811.07	18	11.720 ENDO 1		1.1000e4
19	11.867	6-CHLOROCANE	1.0916	1.0916	110000.00	11000.00	18	11.867 6-CHLOROCANE		1.1000e4
20	12.041		4.1341	4.1341	100111.01	10011.01	18			1.1000e4
21	12.171		1.1000	1.1000	110000.00	11000.00	18			1.1000e4
22	12.310		1.1000	1.1000	110000.00	11000.00	18			1.1000e4
23	12.409	HEPTACHLOR	1.1000	1.1000	110000.00	11000.00	18	12.409 HEPTACHLOR		1.1000e4
24	12.533	6-PCB	1.1000	1.1000	110000.00	11000.00	18	12.533 6-PCB		1.1000e4
25	12.710		1.1000	1.1000	110000.00	11000.00	18			1.1000e4
26	13.071	ENDO 2	-0.1744	-0.1744	110000.00	11000.00	18	13.071 ENDO 2		-1.1000e4
27	13.335	ENDO 1	-0.1704	-0.1704	110000.00	11000.00	18	13.335 ENDO 1		-1.1000e4
28	13.457		11.1747	11.1747	110000.00	11000.00	18			1.1000e4
29	13.825	DDO	1.1000	1.1000	110000.00	11000.00	18	13.825 DDO		1.1000e4
30	13.971	ENDO 2 ALBE	1.7352	1.7352	1483119.50	14831.28	18	13.971 ENDO 2 ALBE		1.1000e4
31	14.151		37.3677	37.3677	15671111.00	15671.11	18			4.1933e5
32	14.439	ENDOSULFATE	1.4441	1.4441	100111.01	10011.01	18	14.439 ENDOSULFATE		1.1000e4
	14.676	DDT	1.9217	1.9217	1584464.78	12811.07	18	14.676 DDT		1.1000e4
	14.907		11.2478	11.2478	110000.00	11000.00	18			1.1000e4
35	15.131		2.4403	2.4403	1196150.75	108952.83	18			4.1017e4
36	15.131		1.2143	1.2143	941650.18	12811.07	18			1.1000e4
37	15.522		0.5863	0.5863	587478.18	10815.27	18			1.0016e4
38	15.649	ENDO 2 METHANE	1.5047	1.5047	1408620.00	11111.01	18	15.649 ENDO 2 METHANE		1.0758e4
39	16.071		0.8070	0.8070	11111.01	11111.01	18			0.8111e4

AK-00655

16.177	-1.4535	-1.4535	192451.75	77439.57	..	-----	-1.4535	
16.178	10.9921	10.9921	144401.07	104646.27	VE	-----	10.9921	
41 16.179	-1.1148	-1.1148	451109	11	103504.00	E	-1.1148	
42 16.181	-1.1170	-1.1170	210063	EP	41024.51	..	-----	-1.1170
44 16.182	7.4204	7.4204	1026765.10	403570.94	VB	-----	7.4204	
45 17.487	0.4598	0.4598	262202.51	41939.78	EP	-1.1801	0.4598	
45 17.514	4.3050	4.3050	1518775.11	57239.19	VB	-----	4.3050	

263.5119 268.5119 1.1743 1.7147

 Varia: 1400 Capillary Column GC: DB-1701 30M X 0.25mm I.D. Detector: 300C.
 Injector: 250 C

Retention Time (min) vs. Response (mV)

Sample Name : 1004 100201

Sample No. 42

Page 1 of 1

File Name : d:\1700\data\100201\100201.d

Date : 11-03-81 10:00

Start Time : 0.00 min

End Time : 30.00 min

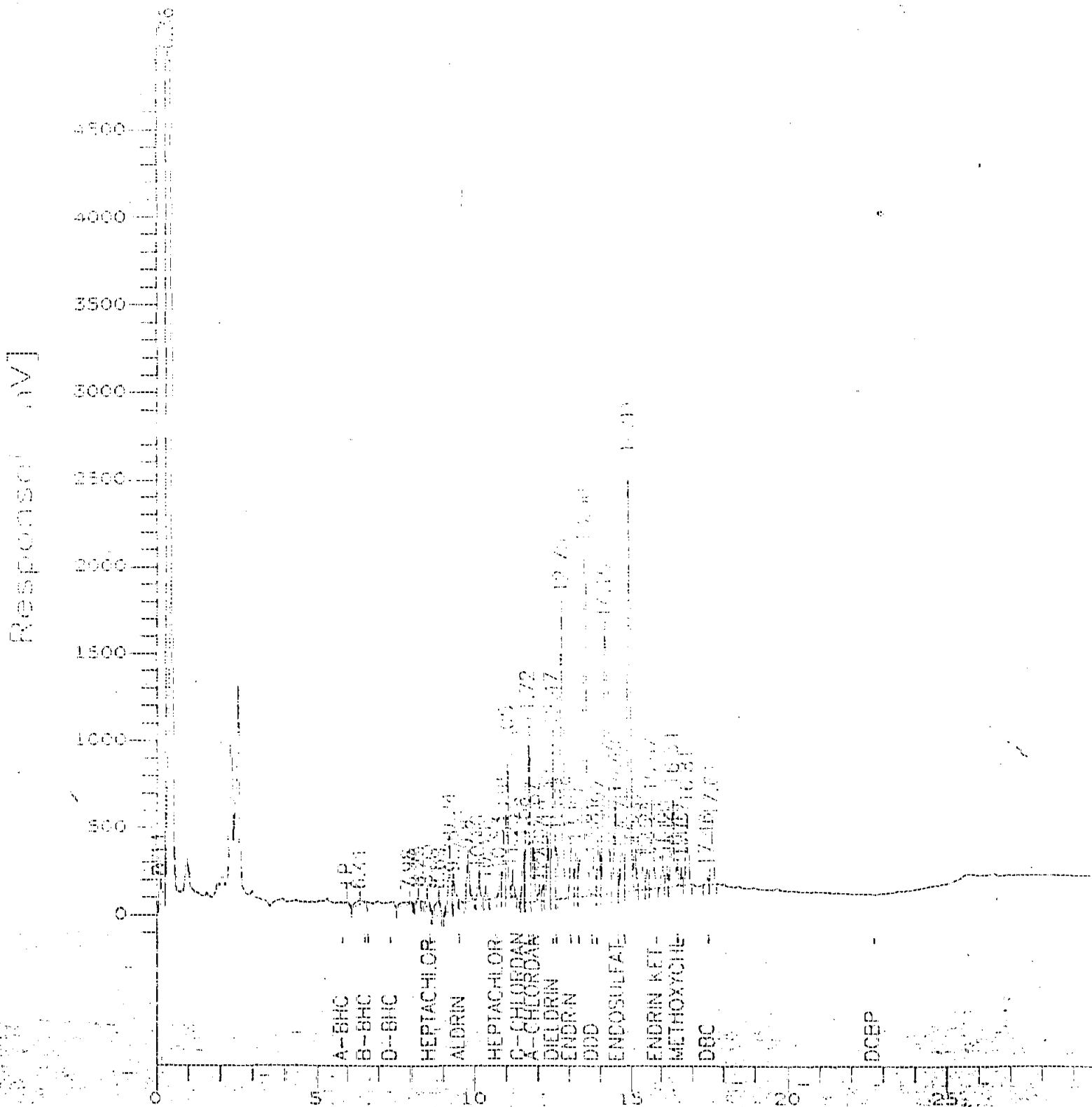
104 Point : -100.00 mV

1000 Point : 400.00 mV

Scale Factor : 1

Plot Offset : +100 mV

Plot Speed : 5000 mV



AR100657

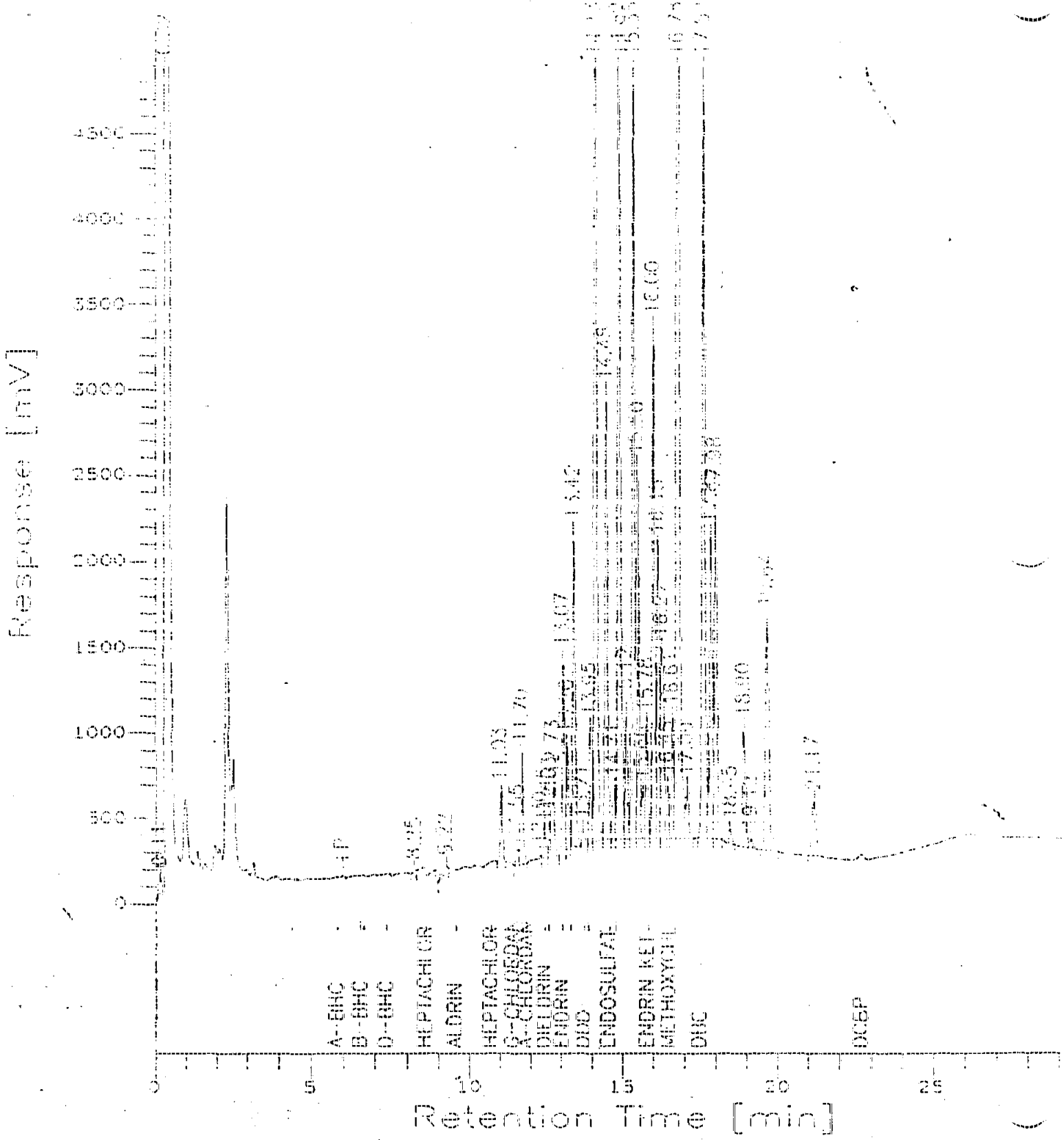
00024

Software Version: 3.1 (2403)
 Date: 12/24/91 17:05
 Sample Name : 1260 60161L
 Data File : d:\2700\data\SM1224005.raw Date: 12/24/91 16:57
 Sequence File: D:\2700\DATA\1224005.seq Volume: 5 Channel: 1
 Instrument : VARIAN 3400 Rack/Vial: 120 Operator: JTK
 Sample Amount : 1.0000 Dilution Factor : 1.00

Princeton Testing Laboratory Analysis Report

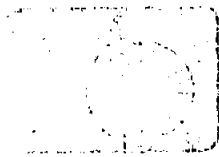
PESTICIDES AND PCB'S BY CAPILLARY CHROMATOGRAPHY

Peak #	Ret. Time (min)	Compound Name	Peak Area (cps)	Concentration (ppm)	Area (cps)	Height (mV)	Relative RI (%)	Reference Compound	Cal. Conc. (ppm)	Cal. Factor
1	0.134		0.0745	0.0745	670071.00	11001.00	88		0.0000	
2	0.216		7.4657	7.4659	932990.00	2.70e5	88		0.0000	
3	0.246		-0.0008	-0.0008	62801.07	11001.00	88		-0.0000	
4	0.257		0.5163	0.5163	440021.00	5770.70	88		0.0000	
5	11.050	HEPTACHLOR EPOX	2.8044	2.8044	213450.00	41070.00	88	2.9700 DBC	-	0.0000
6	11.545	D-CHLORDANE	0.0145	0.0145	529493.00	10216.00	88	1.1300 DBC	-	0.0000
7	11.700	ENDO 1	4.1830	4.1830	379040.00	60700.00	88	-0.1000 DBC	-	0.0000
8	12.000		0.0000	0.0000	70400.00	16000.00	88		0.0000	
9	12.451	DIOXIN	2.0777	2.0777	192020.00	14500.00	88	-0.1000 DBC	-	0.0000
10	12.683	DDE	3.0099	3.0099	936024.00	10220.00	88	0.1000 DBC	-	0.0000
11	12.774		4.0000	4.0000	240000.00	40000.00	88		0.0000	
12	13.074	ENDRI	6.0000	6.0000	607000.00	1.00e5	88	0.1000 DBC	-	0.0000
13	13.139		0.0000	0.0000	307000.00	60000.00	88		0.0000	
14	13.417	ENDO 2	10.0000	10.0000	1000000.00	1.00e5	88	0.1000 DBC	-	0.0000
15	13.700	DDD	3.0000	3.0000	607000.00	90000.00	88	-0.1000 DBC	-	0.0000
16	13.900	ENDRI	5.0000	5.0000	507000.00	60000.00	88	0.1000 DBC	-	0.0000
17	14.100		90.0000	90.0000	3000000.00	1.00e5	88		0.0000	
18	14.400		10.0000	10.0000	1000000.00	1.00e5	88		0.0000	
19	14.700	ENDOSULFATE	6.0000	6.0000	1000000.00	100000.00	88	0.1000 DBC	-	0.0000
20	14.800	DET	60.0000	60.0000	6000000.00	1.00e5	88	0.1000 DBC	-	0.0000
21	15.100		0.0000	0.0000	400000.00	40000.00	88		0.0000	
22	15.361		40.0000	40.0000	4000000.00	4.00e4	88		0.0000	
23	15.497		20.0000	20.0000	2000000.00	2.00e4	88		0.0000	
24	15.655		0.0000	0.0000	200000.00	20000.00	88		0.0000	
25	15.779		6.0000	6.0000	600000.00	60000.00	88		0.0000	
26	16.000	ENDRI	20.0000	20.0000	2000000.00	2.00e4	88	0.1000 DBC	-	0.0000
27	16.100		10.0000	10.0000	1000000.00	1.00e4	88		0.0000	
28	16.374		10.0000	10.0000	1000000.00	1.00e4	88		0.0000	
29	16.446	METHIONCHLOR	0.0000	0.0000	200000.00	20000.00	88	-0.1000 DBC	-	0.0000
30	16.600		10.0000	10.0000	1000000.00	1.00e4	88		0.0000	
31	16.731		300.0000	300.0000	3000000.00	3.00e4	88		0.0000	
32	17.091		4.0000	4.0000	400000.00	40000.00	88		0.0000	
33	17.594	DBC	58.0000	58.0000	5800000.00	4.00e4	88	0.5000 DBC	-	4.0000
34	17.870		23.0000	23.0000	2300000.00	1.00e4	88		0.0000	
35	17.901		26.0000	26.0000	2600000.00	1.00e4	88		0.0000	
36	18.452		1.0000	1.0000	100000.00	10000.00	88		0.0000	
37	18.895		11.0000	11.0000	1100000.00	1.00e4	88		0.0000	
38	19.120		0.0000	0.0000	0.0000.00	0.00e0	88		0.0000	
39	19.670		25.0000	25.0000	2500000.00	1.00e4	88		0.0000	



AR100660

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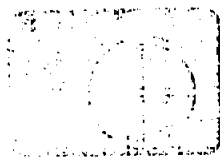
P.O. Box 3108
3490 U.S. Route 1
Princeton, NJ 08543-3108
(609) 452-9050
FAX (609) 452-0347

Weston TAT
5 Underwood Court
Delran, New Jersey 08075
Attention: Marian Murphy

Report Date: 01/06/92
Job Number: 9108360-001GMWH
Date Received: 12/13/91

Analysis: Purgeable Volatile Organics By Method 8240 Page 1
Units: mg/kg

Parameters	Sample I.D.:	DF = 100,000 Sample D01	Dry Wgt. = 36.5%
Chloromethane		350J	
Bromomethane		<2,740	
Vinyl Chloride		<2,740	
Chloroethane		<2,740	
Methylene Chloride		1,620	
Acrolein		<13,700	
Acetone		<1,370	
Acrylonitrile		<13,700	
Carbon Disulfide		<1,370	
1,1-Dichloroethene		<1,370	
1,1-Dichloroethane		<1,370	
1,2-Dichloroethene (Total)		<1,370	
Trichlorofluoromethane		<1,370	
Chloroform		<1,370	
1,2-Dichloroethane		<1,370	
2-Butanone		384,000E	38%
1,1,1-Trichloroethane		<1,370	
Carbon Tetrachloride		<1,370	
Vinyl Acetate		<1,370	
Bromodichloromethane		<1,370	
1,1,2,2-Tetrachloroethane		<1,370	
1,2-Dichloropropane		<1,370	
Trans-1,3-Dichloropropene		<1,370	
Trichloroethene		<1,370	
Dibromochloromethane		<1,370	
1,1,2-Trichloroethane		<1,370	
Benzene		<1,370	
Cis-1,3-Dichloropropene		<1,370	
2-Chloroethylvinylether		<1,370	
Bromoform		<1,370	
2-Hexanone		<1,370	
4-Methyl-2-Pentanone		<1,370	
Tetrachloroethene		<1,370	
Toluene		160,600E	16%
Chlorobenzene		<1,370	
Ethylbenzene		25,500	
Styrene		<1,370	
Total Xylenes		61,600	
1,3-Dichlorobenzene		<1,370	



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(609) 452-9
FAX (609) 452-C

Weston TAT
5 Underwood Court
Delran, New Jersey 08075
Attention: Marian Murphy

Report Date: 01/06/92
Job Number: 9108360-001GMWH
Date Received: 12/13/91

Analysis: Purgeable Volatile Organics By Method 8240 Page 2
Units: $\mu\text{g}/\text{kg}$

DF = 100,000 Dry Wgt. = 36.5%

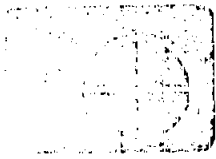
Parameters	Sample I.D.:	Sample D01
1,4-Dichlorobenzene		<1,370
1,2-Dichlorobenzene		<1,370

RECOVERY DATA

QC LIMITS

1,2-Dichloroethane-d4 (Surr.)	76-114	106
Toluene-d8 (Surr.)	88-110	95
4-Bromofluorobenzene (Surr.)	86-115	97

AR100662



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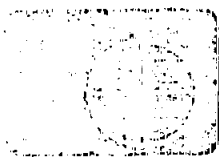
Weston TAT
5 Underwood Court
Delran, New Jersey 08075
Attention: Marian Murphy

Report Date: 01/06/92
Job Number: 9108360-001GMWH
Date Received: 12/13/91

Analysis: Volatile Organics By GCMS -- Method 624 Page 1
Units: ug/ml

Parameters	Sample I.D.:	DF = 10,000	DF = 10,000	Blank 12/20/91
		Sample D05	Sample D06	
Chloromethane		<100	12J	<10
Bromomethane		<100	<100	<10
Vinyl Chloride		<100	<100	<10
Chloroethane		<100	<100	<10
Methylene Chloride		88J	32J	2.6J
Acrolein		<500	<500	<50
Acetone		580	330	4.4J
Acrylonitrile		<500	<500	<50
Carbon Disulfide		<50	<50	<5
1,1-Dichloroethane		<50	<50	<5
1,1-Dichloroethane		<50	<50	<5
1,2-Dichloroethane (Total)		<50	<50	<5
Trichlorofluoromethane		<50	<50	<5
Chloroform		<50	<50	<5
1,2-Dichloroethane		<50	<50	<5
2-Butanone		<50	<50	<5
1,1,1-Trichloroethane		<50	<50	<5
Carbon Tetrachloride		<50	<50	<5
Vinyl Acetate		<50	<50	<5
Bromodichloromethane		<50	<50	<5
1,1,2,2-Tetrachloroethane		<50	<50	<5
1,2-Dichloropropane		<50	<50	<5
Trans-1,3-Dichloropropene		<50	<50	<5
Trichloroethene		<50	170	<5
Dibromochloromethane		<50	<50	<5
1,1,2-Trichloroethane		<50	<50	<5
Benzene		<50	210	<5
Cis-1,3-Dichloropropene		<50	<50	<5
2-Chloroethylvinylether		<50	<50	<5
Bromoform		<50	<50	<5
2-Hexanone		<50	<50	<5
4-Methyl-2-Pentanone		<50	<50	<5
Tetrachloroethene		<50	23,700E	<5
Toluene		560	<50	<5
Chlorobenzene		<50	<50	<5
Ethylbenzene		7050	<50	<5
Styrene		<50	<50	<5
Total Xylenes		13,300E	460	<5
1,3-Dichlorobenzene		<100	<100	<10

AR100663



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Weston TAT
5 Underwood Court
Delran, New Jersey 08075
Attention: Marian Murphy

Report Date: 01/06/92
Job Number: 9108360-001GMWH
Date Received: 12/13/91

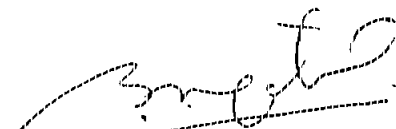
Analysis: Volatile Organics By GCMS -- Method 624 Page 2
Units: ug/ml

Parameters	Sample I.D.:	DF = 10,000 Sample D05	DF = 10,000 Sample D06	Blank 12/20/91
1,4-Dichlorobenzene		<100	<100	<10
1,2-Dichlorobenzene		<100	<100	<10

RECOVERY DATA	QC LIMITS			
1,2-Dichloroethane-d4 (Surr.)	76-114	118**	114	87
Toluene-d8 (Surr.)	88-110	105	105	103
4-Bromofluorobenzene (Surr.)	86-115	98	NR	103

E - Estimated value above linear range.
NR - No recovery data due to matrix interference.

J - Estimated Value Detected Below MEL
** - Outside Of QC Limits


Binim Patel, Ph.D.
Organic Laboratory Manager

For inquiries call us at (609) 452-9050 and ask for our Customer Service Department

Member: American Council of Independent Laboratories, Inc.

0003

LABORATORY CHRONICLE
ORGANIC ANALYSIS

Company: Western TAT Job #: 9107360

Date Received & Refrigerated: 12/12/91

EXTRACTION INFORMATION

Base-Neutral Extractables

____ / ____ / ____
____ / ____ / ____
____ / ____ / ____
____ / ____ / ____

Acid Extractables

____ / ____ / ____
____ / ____ / ____
____ / ____ / ____

Pesticides/ PCBs

____ / ____ / ____
____ / ____ / ____

PCBs only

____ / ____ / ____
____ / ____ / ____

Herbicides

____ / ____ / ____
____ / ____ / ____

Pesticides (EPTOX)

____ / ____ / ____

Other: _____

____ / ____ / ____

ANALYSIS INFORMATION

Base-Neutral Extractables

____ / ____ / ____
____ / ____ / ____
____ / ____ / ____
____ / ____ / ____

Acid Extractables

____ / ____ / ____
____ / ____ / ____
____ / ____ / ____

Pesticides/ PCBs

____ / ____ / ____
____ / ____ / ____

PCBs only

____ / ____ / ____
____ / ____ / ____

Herbicides

____ / ____ / ____
____ / ____ / ____

Pesticides (EPTOX)

____ / ____ / ____

Volatiles - 601/602

____ / ____ / ____
____ / ____ / ____

Volatiles - 624/8240

CC 12/20/91

CC 1/02/92 - ms/msd

____ / ____ / ____

Other: _____

____ / ____ / ____

Dept. Manager Review and Approval: _____

QC Supervisor Review and Approval: W. J. [Signature] 1/7/91

ARI00665

00032

DIOMOPHLODROGENIENE

Sample # 10001
 10001 - 10001 - 10001
 10001 - 10001 - 10001
 10001 - 10001 - 10001
 10001 - 10001 - 10001

Date: 07/12/95
 Call: CALTAG B 3
 Analyst: CC

Site: 10001
 10001
 10001

Laboratory

Contract:

m/z	Intensity	% RA	Ion Abundance Criteria			Actual	Status
			Min %	Max %	Mass		
50	5032	17.8	15.0	40.0	95	17.8	PASS
75	12160	43.1	33.0	60.0	95	43.1	PASS
95	23224	100.0	100.0	----	----	100.0	PASS
96	2140	7.6	5.0	9.0	95	7.6	PASS
173	15	0.1	----	2.0	174	0.1	PASS
174	21536	76.3	50.0	----	95	76.3	PASS
175	1526	5.4	5.0	9.0	174	7.1	PASS
176	21120	74.8	95.0	101.0	174	98.1	PASS
177	1374	4.9	5.0	9.0	176	6.5	PASS

Peak List

10/10/81 8:55 AM
GLASS BACKED COLUMN METHOD 28411.0 10-15-81
400 to 600 scanned

Data: 081280 H 206

Cell: TALLAC # 3

MASS SPECTROMETER YONE CHEM.

File: 001 99

11 144084

Mass	% RA	Inten.	Minima Mass	Min #	Inten. %	Inten.
367	1.11	313.	93		3.25	917.
377	5.26	1484.	94		9.30	2624.
387	4.54	1290.	95		100.00	28224.
397	3.18	898.	96		7.53	2140.
407	4.13	1166.	97		0.05	15.
417	2.22	626.	98		0.23	65.
427	1.45	410.	103		0.47	132.
437	5.16	1456.	104		0.07	20.
447	16.10	4544.	105		0.46	131.
457	10.08	2844.	115		0.24	68.
467	0.06	17.	117		0.90	254.
477	1.47	414.	119		5.66	1593.
487	0.19	53.	120		0.53	147.
497	3.60	1017.	128		0.11	31.
507	17.83	5032.	133		0.60	163.
517	5.92	1672.	134		2.50	705.
527	0.09	24.	135		0.15	43.
537	0.07	21.	141		0.22	63.
557	1.58	447.	143		0.16	44.
567	1.99	561.	155		0.05	15.
577	4.39	1238.	173		0.05	15.
587	3.02	853.	174		76.30	21535.
597	1.59	449.	175		5.41	1525.
607	0.93	263.	176		74.83	21120.
617	3.76	1062.	177		4.87	1374.
627	3.42	966.	207		0.86	244.
637	2.70	763.				
657	0.07	21.				
677	0.44	125.				
687	8.87	2504.				
69	8.80	2484.				
70	1.24	350.				
71	0.64	182.				
72	1.19	335.				
73	6.74	1902.				
74	12.64	3563.				
75	43.08	12160.				
76	3.78	1066.				
77	1.36	384.				
78	0.54	131.				
79	1.63	459.				
80	0.19	55.				
81	1.84	520.				
82	0.61	172.				
86	0.78	219.				
87	5.18	1462.				
88	6.39	1804.				
89	1.74	492.				
91	1.47	416.				
92	2.07	584.				

AR100667

0003

MASS SPECTRUM

12/20/91 9:05:00 + 6:24

SAMPLE: 50MG BFB

CONDOS.: GLASS PACKED COLUMN/METHOD 624/L.C 10/18/91

TEMP: 220 DEG. C

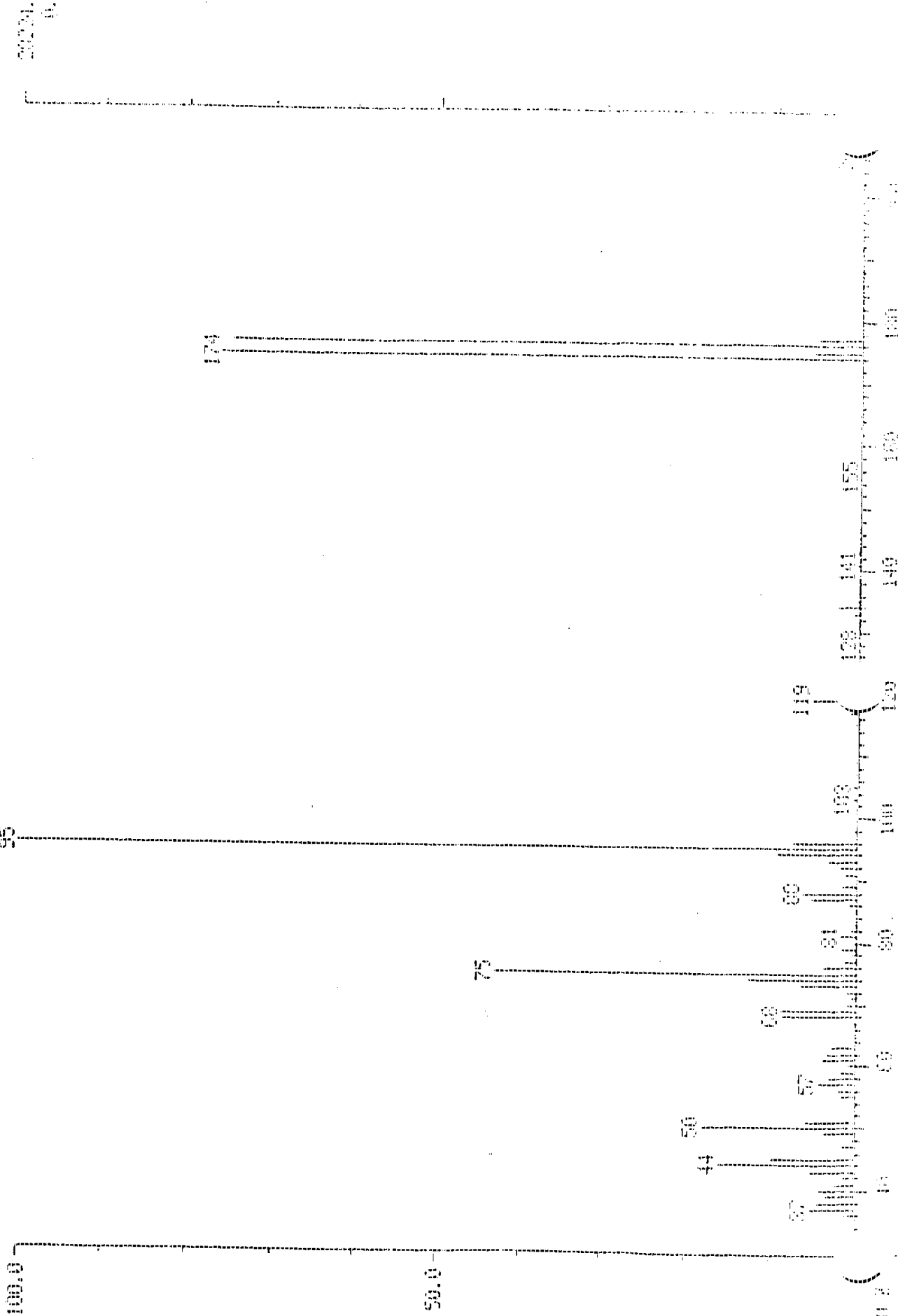
#255 TO #257 SUMMED

DATA: BFB1220 #255

CALL: CALTAB #3

BASE PZ: 95

RT: 14.234.



AR100668

00035

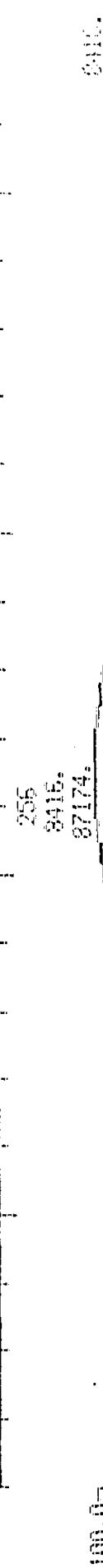
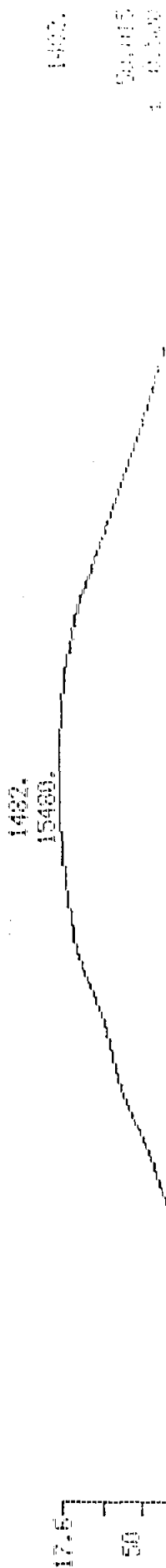
MASS CHROMATOGRAMS DATA: 8FB1220 #255 SCANS 245 TO 265

12/20/91 9:35:00 CALL: CALTAB #3

SAMPLE: 50MG BFB MASS SPECTROMETER TUNE CHECK

COND.: GLASS PAKED COLUMN/METHOD: 624/1.C 10/18/91

RUNTIME: 0 1: 400 LABEL: N 3. 4.0 QUANT: A 3. 1.0 J 0 BASE: U 20. 3



AR100669

00036

TRICHLOROFLUOROBENZENE

Timing Report
 01/02/92 8:32:00 + 5:23
 Instrument: FIDN
 8224 to 8226 scanned
 Data Number:

Date: SF312 # 255
 Call: CALTAB # 3
 Analyst: CC

Base m/z: 95
 RIC: 211200
 Acct No.: 8477

Laboratory:

Contract:

m/z	Intensity	% RA	Ion Abundance Criteria			Actual	Status
			Min %	Max %	Mass		
50	5175.	15.7	15.0	40.0	95	15.7	PASS
75	14735.	37.6	30.0	60.0	95	37.6	PASS
95	39232.	100.0	100.0	----	----	100.0	PASS
95	2865.	7.3	5.0	9.0	95	7.3	PASS
173	174.	0.4	----	2.0	174	0.4	PASS
174	27072.	69.0	50.0	----	95	69.0	PASS
175	1934.	4.9	5.0	9.0	174	7.1	PASS
176	25952.	66.2	95.0	101.0	174	95.9	PASS
177	1754.	4.5	5.0	9.0	176	6.8	PASS

AR100670

0003

Mass List

01762792 8:32.00 + 6:23

Batch: 08B12 # 255

Scan m/z: 95

Sample: 50N3 BFB

Coll: CALTAS # 3

File: 211200

MASS SPECTROMETER TUNE CHECK

Cond: GLASS PAKED COLUMN METHOD 624

#254 to #255 summed

Mass	% RA	Inten.	Minima Maxima Mass	Min #	Inten %	Inten
34	0.00	0				
35?	0.92	361.	88		7.95	3120.
37?	4.89	1920.	89		2.43	971.
38?	4.45	1744.	91		1.05	413.
39?	4.14	1626.	92		1.73	700.
40?	4.06	1592.	93		2.99	1172.
41?	6.28	2464.	94		8.42	3304.
42?	2.89	1134.	95		100.00	39232.
43?	9.24	3624.	96		7.31	2868.
44?	19.17	7520.	97		1.03	404.
45?	15.52	6088.	98		0.49	194.
46?	0.44	174.	101		0.34	134.
47?	1.95	764.	102		0.42	163.
48?	0.43	169.	103		0.66	258.
49?	3.15	1236.	104		0.09	34.
50?	15.74	6176.	105		0.79	311.
51?	5.12	2009.	106		0.20	77.
52?	0.29	113.	107		0.15	60.
53?	0.76	297.	109		0.11	45.
54?	0.51	202.	110		0.32	124.
55?	5.44	2136.	111		0.41	160.
56?	3.84	1508.	112		1.51	593.
57?	8.64	3388.	113		0.50	196.
58?	4.03	1580.	115		0.65	255.
59?	2.38	933.	116		0.24	93.
60?	1.36	532.	117		0.95	374.
61?	3.34	1312.	118		0.30	117.
62?	2.99	1174.	119		1.05	413.
63?	2.29	897.	125		0.19	74.
65?	0.27	106.	128		0.72	282.
67?	1.29	507.	129		0.80	312.
68?	7.71	3024.	130		0.39	152.
69	9.42	3696.	131		0.75	293.
70	3.59	1410.	133		0.99	390.
71	2.92	1146.	141		0.51	202.
72	2.09	820.	143		0.92	361.
73	6.27	2460.	145		0.98	393.
74	10.87	4264.	147		0.43	167.
75	37.56	14736.	152		0.12	46.
76	3.63	1426.	157		0.40	155.
77	1.33	523.	159		0.52	204.
78	0.59	233.	171		1.83	739.
79	1.76	692.	172		0.16	63.
80	0.56	218.	173		0.44	174.
81	2.12	830.	174		69.00	27072.
82	1.01	398.	175		4.93	1934.
83	1.87	732.	176		66.15	25952.
84	1.67	655.	177		4.47	1754.
85	0.75	295.	205		1.42	556.
86	1.26	493.	207		0.36	143.
87	6.87	2696.	220		0.23	85.

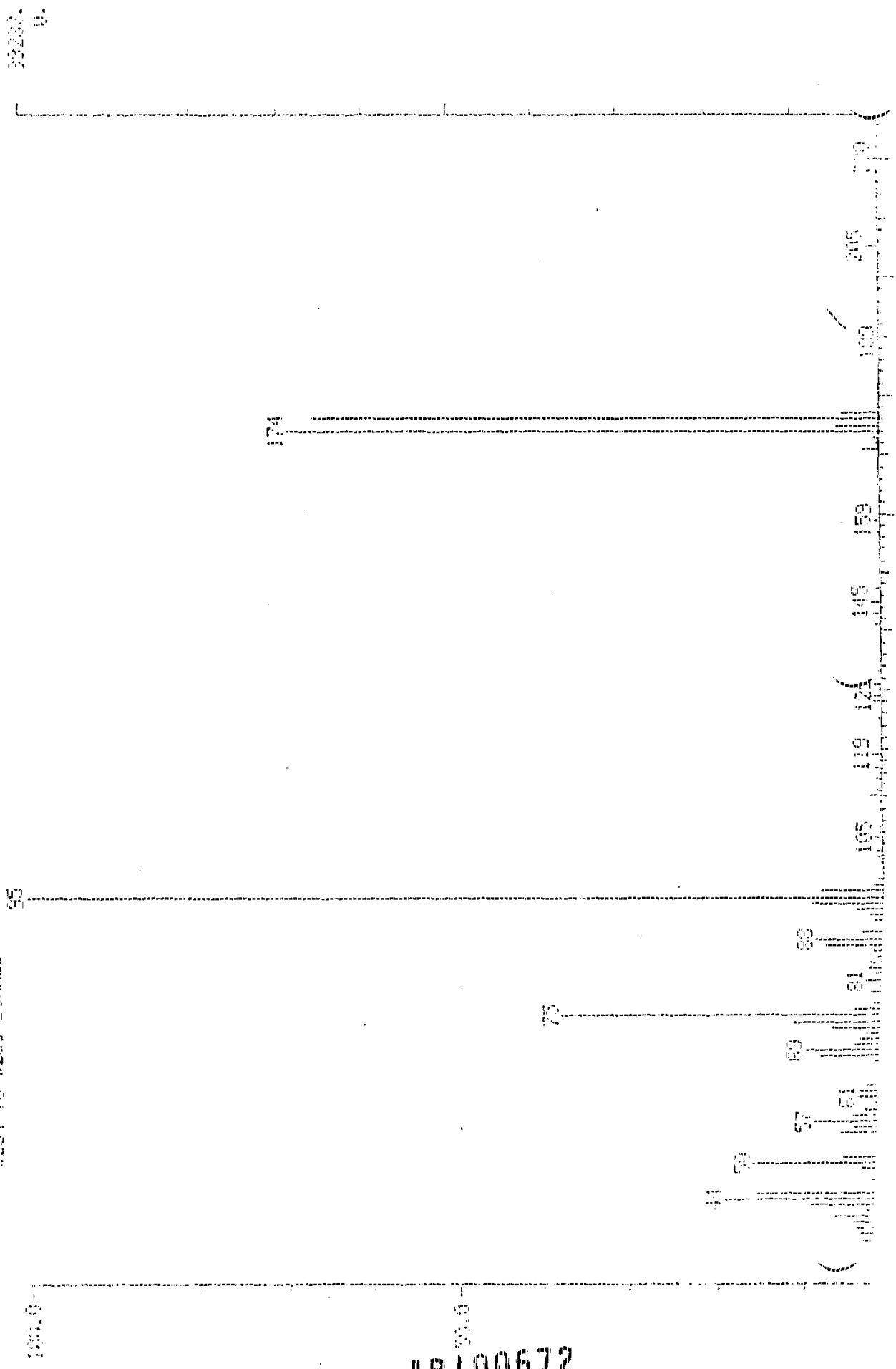
AR100671

00038

DATA: BFB12 #255
CALI: CALTAB #3

BASE M/Z: 95
RID: 211200.

MASS SPECTRUM
01/02/92 8:32:00 + 8:23
SAMPLE: 5010 BFB MASS SPECTROMETER TUNE CHECK
COND.: GLASS PAKED COLUMN/METHOD 524
TEMP: 220 DEG. C
#254 TO #255 SUMMED

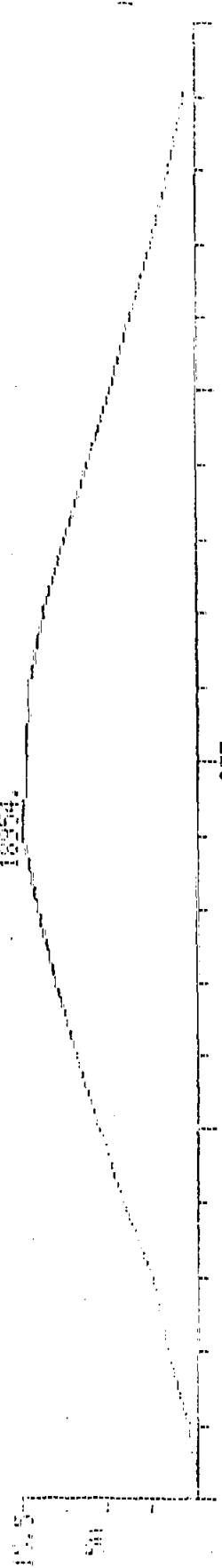


AR100672

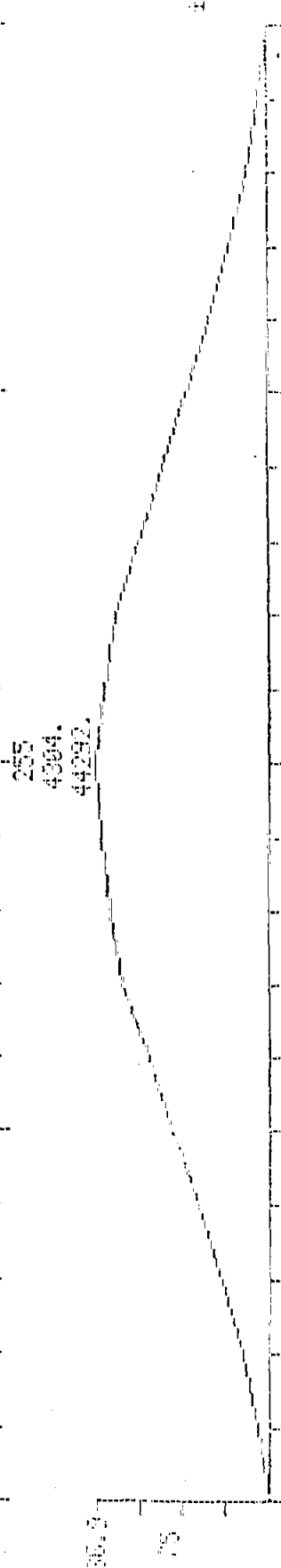
00030

MASS CHROMATOGRAMS DATA: 5F812 #254 SCANS 245 TO 265
 01/02/92 8:32:00 CALL: CALTAB #3
 SAMPLE: 5010 EFB MASS SPECTROMETER TUNE CHECK
 CUIOS.: GLASS PAKED COLUMN/METHOD 624
 PACE: 0 1.400 LABEL: H 3, 4.0 QUANT: 0.3, 1.0 J 0 BASE: U 20, 3

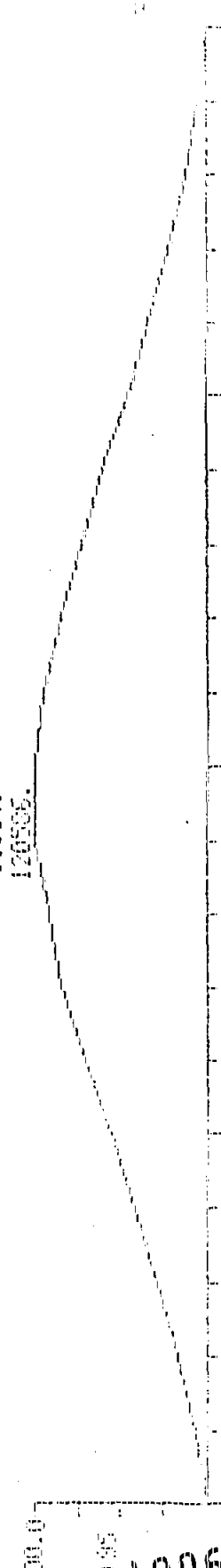
1016.
 30.100
 10.000



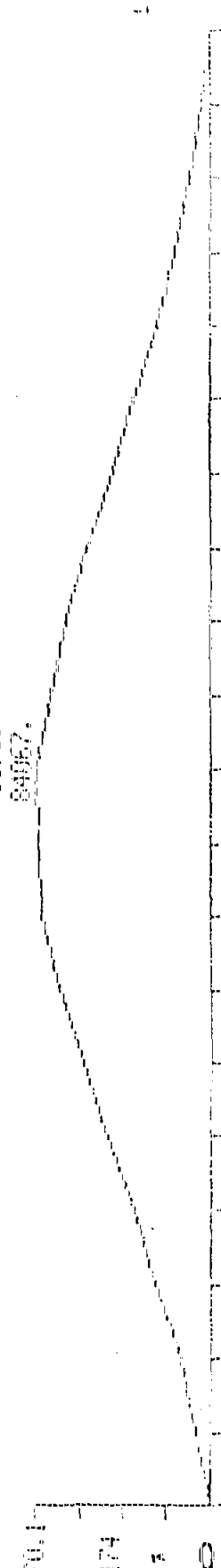
4304.
 17.022
 6.288



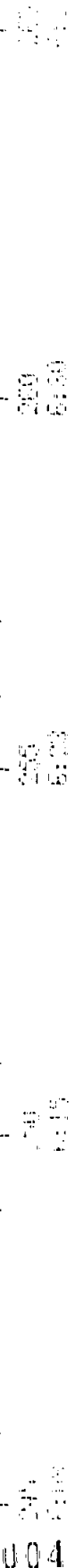
1104.
 20.172
 11.288



8176.
 17.082
 9.908



250.100
 6.130



AR100673
 0004

Initial Calibration Data

Instrument Identification: FINN
 Calibration Date 12-18-91
 MAX AVG. XRSO FOR CCC = 30
 MIN. AVG. RF FOR SPOC 0.300

Compound	RF 10 NG	RF 20 NG	RF 50 NG	RF 100NG	RF 200NG	Mean RF	XRS
C010 CHLOROMETHANE **	0.947	0.857	0.949	0.812	0.902	0.874	6.62
C015 BROMOMETHANE	0.754	0.651	0.494	0.238	0.181	0.464	54.61
C020 VINYL CHLORIDE *	0.607	0.573	0.620	0.545	0.301	0.529	24.74
C025 CHLOROETHANE	0.296	0.295	0.276	0.221	0.262	0.270	11.31
C030 METHYLENE CHLORIDE	1.036	1.003	0.921	0.736	0.710	0.881	17.11
C031 ACROLIN	0.227	0.271	0.274	0.268	0.324	0.273	12.55
C035 ACETONE	0.177	0.185	0.133	0.127	0.138	0.152	17.61
C052 ACRYLONITRILE	0.550	0.560	0.635	0.664	0.823	0.666	14.83
C040 CARBON DISULFIDE	1.612	1.631	1.893	1.717	1.756	1.722	6.54
C045 1,1-DICHLOROETHENE *	0.614	0.612	0.759	0.701	0.775	0.692	11.18
C050 1,1-DICHLOROETHANE **	1.331	1.398	1.593	1.542	1.720	1.517	10.21
C055 TRANS-1,2-DICHLOROETHEN	0.974	1.025	1.183	1.170	1.321	1.134	12.16
C000 TRICHLOROFLUOROMETHA	1.328	1.304	1.280	1.286	0.869	1.213	151.9
C060 CHLOROFORM *	1.668	1.607	1.782	1.708	1.936	1.740	7.21
C065 1,2-DICHLOROETHANE	0.876	0.839	0.964	0.954	1.052	0.938	9.08
C110 2-BUTANONE	0.035	0.057	0.053	0.053	0.058	0.051	17.91
C115 1,1,1-TRICHLOROETHANE	0.541	0.553	0.591	0.554	0.575	0.563	4.1
C120 CARBON TETRACHLORIDE	0.436	0.440	0.528	0.486	0.517	0.481	7.1
C125 VINYL ACETATE	0.179	0.192	0.258	0.194	0.264	0.217	101.5
C130 BROMO DICHLOROMETHANE	0.543	0.561	0.584	0.587	0.606	0.576	4.2
C140 1,2-DICHLOROPROPANE	0.321	0.345	0.353	0.371	0.359	0.350	5.2
C145 TRANS-1,3 DICHLOROPROPE	0.695	0.828	0.798	0.844	0.860	0.805	8.1
C150 TRICHLOROETHENE	0.382	0.417	0.436	0.422	0.425	0.416	4.9
C155 DIBROMOCHLOROMETHANE	0.478	0.508	0.545	0.552	0.565	0.529	6.7
C160 1,1,2-TRICHLOROETHANE	0.281	0.303	0.302	0.318	0.320	0.305	5.1
C165 BENZENE	0.862	0.873	0.897	0.905	0.912	0.890	2.4
C143 CIS-1,3-DICHLOROPROPENE	0.695	0.828	0.798	0.844	0.860	0.805	8.1
C175 2-CHLOROETHYL VINYL ETH	0.146	0.099	0.164	0.183	0.193	0.157	23.6
C180 BROMOFORM **	0.343	0.390	0.379	0.406	0.415	0.388	6.7
C220 TETRACHLOROETHENE	0.582	0.621	0.623	0.596	0.628	0.610	3.2
C210 2-HEXANONE	0.120	0.167	0.124	0.114	0.130	0.131	15.9
C205 4-METHYL 2-PENTANONE	0.192	0.288	0.231	0.254	0.251	0.243	14.4
C225 1,1,2,2-TETRACHLOROETHA	0.370	0.493	0.422	0.474	0.467	0.445	11.1
C200 TOLUENE *	1.126	1.174	1.174	1.150	1.160	1.157	1.7
C205 CHLOROBENZENE **	0.947	0.998	0.958	0.944	0.959	0.961	2.2
C240 ETHYL BENZENE *	0.441	0.450	0.444	0.443	0.454	0.446	1.1
C245 STYRENE	0.844	0.878	0.864	0.867	0.891	0.869	2.0
C250 M-XYLENE	0.506	0.543	0.500	0.499	0.540	0.517	4.2
C253 1,3-DICHLOROBENZENE	0.506	0.605	0.520	0.557	0.555	0.548	7.0
C254 1,4-DICHLOROBENZENE	0.497	0.591	0.455	0.522	0.515	0.516	9.5
C255 1,2-DICHLOROBENZENE	0.615	0.720	0.681	0.552	0.695	0.673	6.0
C250 OAP XYLENE	0.974	1.063	0.990	0.974	1.024	1.005	3.7

AR100674

00041

WD1220R.DAT:FILE: SVD1220R

Calibration Check

Instrument Identifier: FINN
 Calibration Date: 12-19-91
 Standard File: SVD1220R
 Date: 12/20/91 Time: 12:00:00
 MAX RPD FOR CCC (*) = 25 %
 MIN RF FOR SPC (***) = 0.300

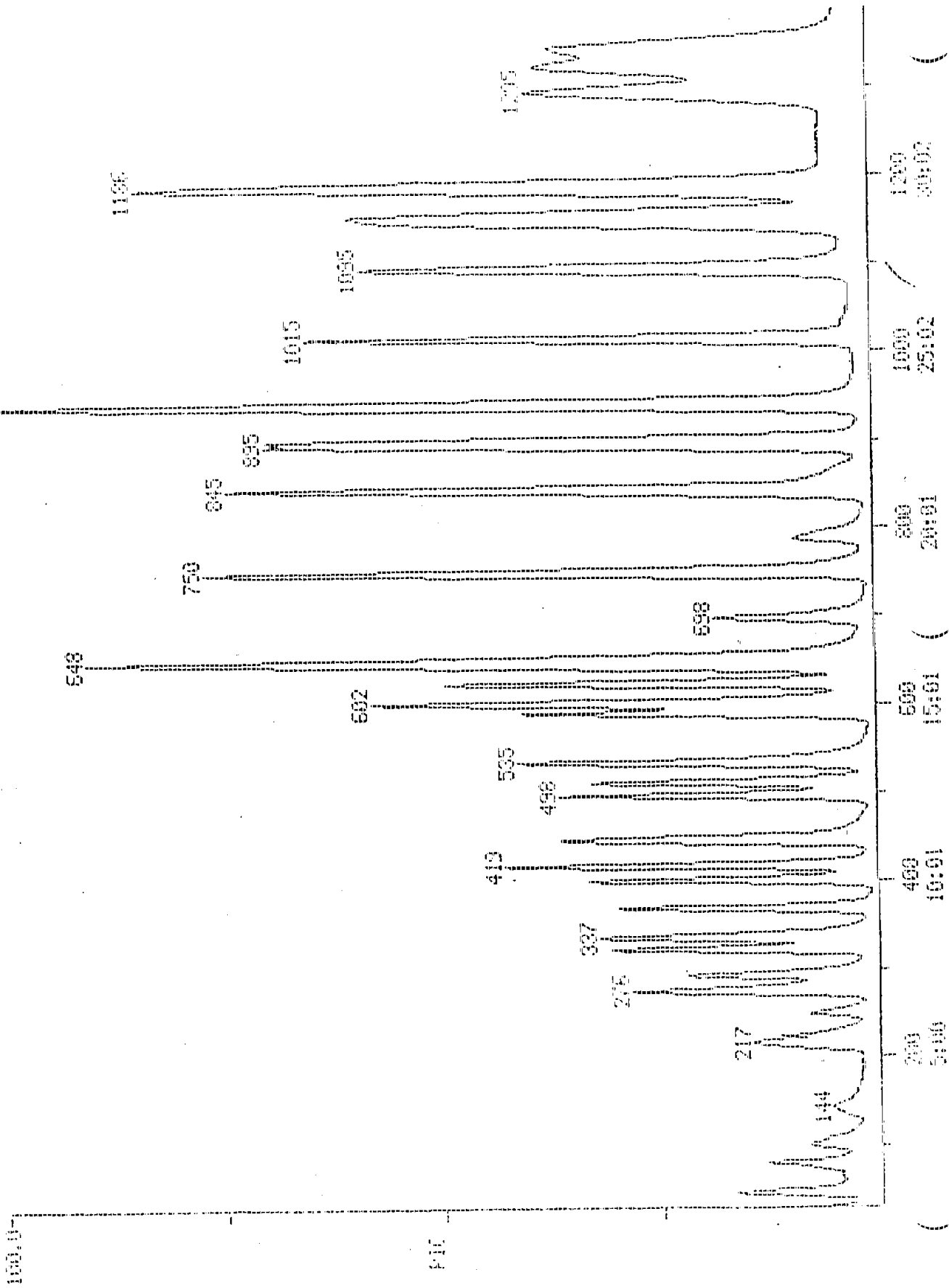
Compound	Mean RF(I)	RF(O)	% D
C010 CHLOROMETHANE **	0.894	0.946	5.869
C015 BROMOMETHANE	0.464	0.448	3.483
C020 VINYL CHLORIDE *	0.529	0.562	3.110
C025 CHLOROETHANE	0.270	0.325	20.450
C030 METHYLENE CHLORIDE	0.881	0.670	24.005
C251 ACROLIN	0.273	0.269	1.174
C035 ACETONE	0.152	0.136	10.180
C252 ACRYLONITRILE	0.666	0.706	6.005
C040 CARBON DISULFIDE	1.722	1.620	5.906
C045 1,1-DICHLOROETHENE *	0.692	0.652	5.824
C050 1,1-DICHLOROETHANE **	1.517	1.464	3.458
C055 TRANS-1,2-DICHLOROETHEN	1.134	1.053	7.145
C000 TRICHLOROFLUOROMETHA	1.213	0.914	24.585
C060 CHLOROFORM *	1.740	1.725	0.902
C065 1,2-DICHLOROETHANE	0.938	0.900	4.085
C110 2-BUTANONE	0.051	0.049	3.195
C115 1,1,1-TRICHLOROETHANE	0.563	0.504	10.536
C120 CARBON TETRACHLORIDE	0.481	0.417	13.289
C125 VINYL ACETATE	0.217	0.293	34.755
C130 BROMO DICHLOROMETHANE	0.576	0.573	0.530
C140 1,2-DICHLOROPROPANE	0.350	0.335	4.334
C145 TRANS-1,3 DICHLOROPROPE	0.805	0.831	3.198
C150 TRICHLOROETHENE	0.416	0.374	10.205
C155 DIBROMOCHLOROMETHANE	0.529	0.533	0.691
C160 1,1,2-TRICHLOROETHANE	0.305	0.320	4.969
C165 BENZENE	0.890	0.908	2.005
C143 CIS-1,3-DICHLOROPROPENE	0.805	0.831	3.198
C175 2-CHLOROETHYL VINYL ETH	0.157	0.189	19.540
C180 BROMOFORM ***	0.388	0.402	3.856
C220 TETRACHLOROETHENE	0.610	0.564	7.486
C210 2-HEXANONE	0.131	0.111	15.711
C205 4-METHYL 2-PENTANONE	0.243	0.224	7.751
C225 1,1,2,2-TETRACHLOROETHA	0.445	0.464	4.177
C200 TOLUENE *	1.157	1.156	0.036
C235 CHLOROBENZENE **	0.961	0.961	0.004
C240 ETHYL BENZENE *	0.446	0.430	3.668
C245 STYRENE	0.869	0.852	1.929
C250 M-XYLENE	0.517	0.501	3.104
C253 1,3-DICHLOROBENZENE	0.548	0.508	7.370
C254 1,4-DICHLOROBENZENE	0.516	0.478	7.369
C255 1,2-DICHLOROBENZENE	0.673	0.630	6.447
C250 O&P XYLENE	1.005	0.974	3.082

AR100675

00042

DATA: SVD1228R #48 SCANS 36 TO 1389
 CALL: SVD1228R #3
 12/20/91 12:00:00
 SAMPLE: 50 PP8 STANSARD
 CONCS.: GLASS PACKED COLUMN/METHOD 624/1.C 18/18/91
 RANGE: 0 1.1389 LABEL: N 0. 4.0 QUAN: A 0. 1.0 J 0 BASE: U 20/ 3
 341

176128.



AR100676

✓
excellent

Constitution Report File: SVD1220R

Sample: SVD1220R.01

Time: 12/04/91 12:00:00

Sample: 50 P23 STANDARD

Column: GLASS PACKED COLUMN/METHOD 62471.C 10/18/91

Formula: SML

Instrument: FIHR

Weight: 0.000

Submitted by: PTL

Analyst: CC

Acct. No.: PTL

AMOUNT=AREA * RESP AMNT/(REF AREA * RESP FACT)
Resp. fac. from Library Entry

No	Name
1	C101 BROMOCHLOROMETHANE **INT. STD.**
2	C110 1,4-DIFLUOROBENZENE **INT. STD.**
3	C120 CHLOROBENZENE-D5 **INT. STD.**
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD.**
5	CS05 TOLUENE-D3 **S. STD.**
6	CS10 4-BROMOFLUOROBENZENE **S. STD.**
7	C010 CHLOROMETHANE **
8	C015 BROMOMETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C251 ACROLIN
13	C035 ACETONE
14	C252 ACRYLONITRILE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M-XYLENE
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

AR100677

00044

Instrument Identifier: FINN

Calibration Date: 12-18-91

Standard File: SVD12R

Date: 01/02/92 Time: 11:09:00

MAX RPD FOR CCC (*) = 25 %

MIN RF FOR SPOC (***) = 0.300

Compound	Mean RF(1)	RF(0)	RF(0)
C010 CHLOROMETHANE **	0.894	1.045 ✓✓	15.590
C015 BROMOMETHANE	0.464	0.467	0.711
C020 VINYL CHLORIDE *	0.529	0.574	8.459 ✓
C025 CHLOROETHANE	0.270	0.327	21.120
C030 METHYLENE CHLORIDE	0.881	0.800	9.185
C031 ACROLIN	0.273	0.234	14.021
C035 ACETONE	0.152	0.161	5.706
C032 ACRYLONITRILE	0.666	0.671	0.745
C040 CARBON DISULFIDE	1.722	1.926	11.859
C045 1,1-DICHLOROETHENE *	0.692	0.777	12.299 ✓
C050 1,1-DICHLOROETHANE **	1.517	1.521 ✓	0.313
C055 TRANS-1,2-DICHLOROETHENE	1.134	1.145	0.927
C000 TRICHLOROFLUOROMETHANE	1.213	0.961	20.742
C060 CHLOROFORM *	1.740	1.543	11.336 ✓✓
C065 1,2-DICHLOROETHANE	0.938	0.671	28.530
C110 2-BUTANONE	0.051	0.047	8.866
C115 1,1,1-TRICHLOROETHANE	0.563	0.411	27.128
C120 CARBON TETRACHLORIDE	0.481	0.348	27.727
C125 VINYL ACETATE	0.217	0.220	1.176
C130 BROMO DICHLOROMETHANE	0.576	0.476	17.335
C140 1,2-DICHLOROPROPANE	0.350	0.370	5.616 ✓
C145 TRANS-1,3-DICHLOROPROPENE	0.805	0.785	2.459
C150 TRICHLOROETHENE	0.416	0.380	8.824
C155 DIBROMOCHLOROMETHANE	0.529	0.452	14.621
C160 1,1,2-TRICHLOROETHANE	0.305	0.302	0.877
C165 BENZENE	0.890	1.005	12.975
C143 CIS-1,3-DICHLOROPROPENE	0.805	0.785	2.459
C175 2-CHLOROETHYL VINYL ETH	0.157	0.090	42.440
C180 BROMOFORM ***	0.388	0.304 ✓	21.639
C220 TETRACHLOROETHENE	0.610	0.598	1.881
C210 2-HEXANONE	0.131	0.099	24.713
C205 4-METHYL 2-PENTANONE	0.243	0.219	9.805
C225 1,1,2,2-TETRACHLOROETHANE	0.445	0.468 ✓	5.246
C230 TOLUENE *	1.157	1.247	7.750 ✓
C235 CHLOROBENZENE **	0.961	1.000 ✓	4.035
C240 ETHYL BENZENE *	0.446	0.443	0.885 ✓
C245 STYRENE	0.869	0.834	3.991
C250 M-XYLENE	0.517	0.486	6.143
C253 1,3-DICHLOROBENZENE	0.548	0.472	13.960
C254 1,4-DICHLOROBENZENE	0.516	0.431	16.670
C255 1,2-DICHLOROBENZENE	0.673	0.528	21.833
C259 OMP XYLENE	1.005	0.960	4.423

AR100678

00046

DATA: SUGI2R #48
CALI: SUGI2R #3

PIC

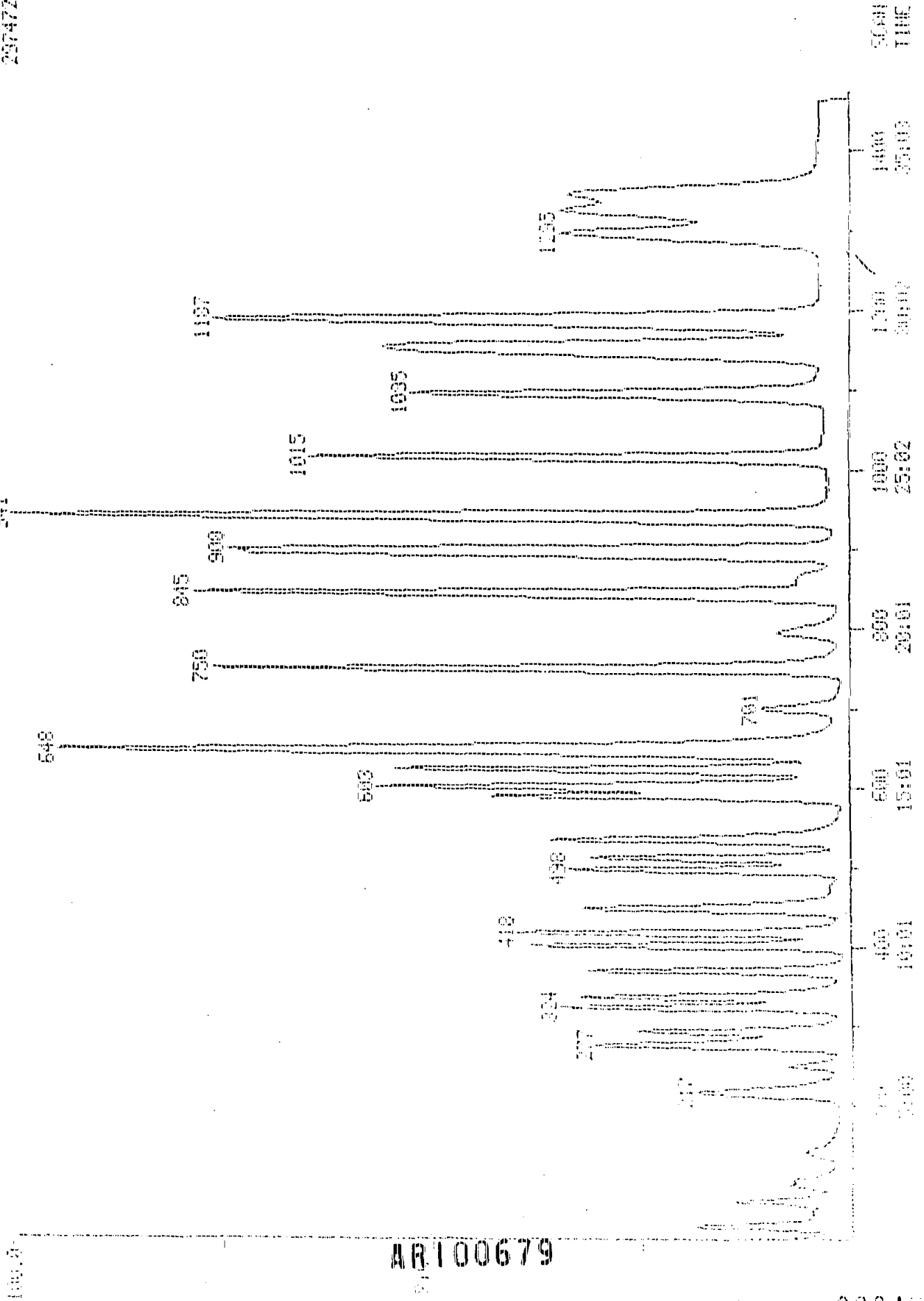
01/02/92 11:08:00

SAMPLE: 50 PFC STD

CONDIC.: GROSS PACKED COLUMN/METHOD 624

PARAM: 0 1.1474 LABEL: N 0. 4.0 QUAN: A 0. 1.0 J 0 ROSE: U 20. 3

297472.



AR100679

00047



Date: SVO12R.T1
 01/02/92 11:09:00
 Sample: 50 PPB STD
 Column: CLASS PACKED COLUMN/METHOD 624
 Sample: 5ML
 Submitted by: PTL

Instrument: FINN
 Analyst: CC

Weight: 0.000
 Accy. No.: PTL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)
 Resp. fac. from Library Entry

No	Name
1	CI01 BROMOCHLOROMETHANE **INT. STD.**
2	CI10 1,4-DIFLUOROBENZENE **INT. STD.**
3	CI20 CHLOROBENZENE-D5 **INT. STD.**
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD.**
5	CS05 TOLUENE-DB **S. STD.**
6	CS10 4-BROMOFLUOROBENZENE **S. STD.**
7	CO10 CHLOROMETHANE **
8	CO15 BROMOMETHANE
9	CO20 VINYL CHLORIDE *
10	CO25 CHLOROETHANE
11	CO30 METHYLENE CHLORIDE
12	C251 ACROLIN
13	CO35 ACETONE
14	C252 ACRYLONITRILE
15	CO40 CARBON DISULFIDE
16	CO45 1,1-DICHLOROETHENE *
17	CO50 1,1-DICHLOROETHANE **
	CO55 TRANS-1,2-DICHLOROETHENE
19	CO00 TRICHLOROFLUOROMETHANE
20	CO60 CHLOROFORM *
21	CO65 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C143 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLLENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M-XYLENE
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

BR100680

00045

No Name
42 C250 D&P XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area (Hght)	Amount	XTot
1	49	337	8:26	1	1.000	A BB	225355.	50.000 NG	1.85
2	114	749	18:49	2	1.000	A BB	599205.	50.000 NG	1.85
3	117	938	23:29	3	1.000	A BB	511161.	50.000 NG	1.85
4	65	447	11:11	1	1.326	A BB	141310.	52.211 NG	1.93
5	95	894	22:23	3	0.953	A BB	561311.	50.533 NG	1.89
6	95	1095	27:24	3	1.167	A BB	372868.	50.423 NG	1.86
7	50	47	1:11	1	0.139	A BB	235527.	91.219 NG	3.37
8	94	79	1:59	1	0.234	A BB	105171.	53.599 NG	1.98
9	62	101	2:32	1	0.300	M XX	129264.	57.901 NG	2.14
10	64	142	3:33	1	0.421	A BB	73528.	50.731 NG	1.88
11	49	217	5:26	1	0.644	A BB	190237.	48.754 NG	1.80
12	56	251	6:17	1	0.745	A BB	52721.	40.808 NG	1.49
13	43	250	6:15	1	0.742	A BB	36073.	42.738 NG	1.58
14	53	275	6:53	1	0.816	A BB	151170.	47.740 NG	1.77
15	75	277	6:56	1	0.822	A BB	434019.	50.138 NG	1.85
16	96	324	8:07	1	0.961	A BB	175096.	60.788 NG	2.25
17	63	370	9:16	1	1.098	A BB	342756.	65.085 NG	2.41
18	61	402	10:04	1	1.193	A BB	257916.	51.925 NG	1.92
19	101	294	7:22	1	0.872	A BB	216566.	109.529 NG	4.05
20	83	418	10:28	1	1.240	A BB	347598.	59.496 NG	2.21
21	62	452	11:19	1	1.341	A BB	151009.	55.395 NG	2.05
22	43	477	11:56	2	0.637	A BB	27610.	63.000 NG	2.33
23	97	498	12:28	2	0.655	A BB	245678.	74.901 NG	2.77
24	117	512	12:49	2	0.684	A VB	208205.	76.520 NG	2.83
25	43	537	13:26	2	0.717	A BB	131453.	75.525 NG	2.79
26	83	536	13:25	2	0.716	A BB	285142.	55.116 NG	2.04
27	63	591	14:48	2	0.789	A BB	221113.	56.151 NG	2.08
28	75	602	15:04	2	0.804	A BB	470242.	56.905 NG	2.10
29	95	624	15:37	2	0.833	A BB	227220.	54.594 NG	2.02
30	129	644	16:07	2	0.860	A BB	270578.	52.871 NG	1.96
31	97	652	16:19	2	0.870	A BB	180713.	53.567 NG	1.98
32	78	648	16:13	2	0.865	A BB	602085.	53.014 NG	1.96
33	75	602	15:04	2	0.804	A BB	470242.	56.905 NG	2.10
34	63	700	17:31	2	0.935	A BB	53892.	52.719 NG	1.95
35	173	751	18:48	2	1.003	A BB	181654.	52.023 NG	1.92
36	166	845	21:09	3	0.901	A BB	305593.	51.808 NG	1.92
37	43	862	21:35	3	0.919	A BB	50269.	52.573 NG	1.94
38	43	796	19:55	3	0.849	A BB	111875.	58.251 NG	2.15
39	83	840	21:02	3	0.896	A BB	239198.	55.363 NG	2.05
40	91	901	22:33	3	0.961	A BB	636909.	52.285 NG	1.93
41	112	943	23:36	3	1.005	A BB	510973.	51.545 NG	1.91
42	106	1015	25:24	3	1.082	A BB	225937.	51.113 NG	1.89
43	104	1147	28:43	3	1.223	A BB	426180.	52.087 NG	1.93
44	106	1155	28:55	3	1.231	A BB	247987.	50.600 NG	1.87
45	146	1294	32:23	3	1.380	A BB	240953.	54.336 NG	2.01
46	146	1324	33:03	3	1.412	M XX	220048.	54.061 NG	2.00
47	146	1342	33:35	3	1.431	M XX	269648.	45.613 NG	1.69
48	106	1157	29:43	3	1.265	A BB	490632.	51.970 NG	1.92

ARI00681

00043

3A

Water Volatile Matrix Spike/Matrix Spike Duplicate Recovery

Lab Name: Princeton Testing Lab Contract: WESTON, TAT

Lab Code: PTL Case No.: 9108360 SAS No.: _____ SDG No.: _____

Matrix Spike - EPA Sample No.: 8360-5 (X100,000)

S4962

S4963

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC
1,1-Dichloroethene	50	ND	30.1	60*	61-145
Trichloroethene	50	ND	61	122*	71-120
Benzene	50	#	# U	U	76-127
Toluene	50	3.8	54.6	102	76-125
Chlorobenzene	50	ND	48.7	97	75-130

S 4964

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	REC
1,1-Dichloroethene	50	30.6	61	2	14	61-145
Trichloroethene	50	61.4	123*	1	14	71-120
Benzene	50	#	U	U	11	76-127
Toluene	50	54.3	101	1	13	76-125
Chlorobenzene	50	48.8	98	1	13	75-130

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

* Values outside of QC limits

RPD: 0 out of 4 outside limits

Spike Recovery: 3 out of 8 outside limits

COMMENTS: U = Unable to quantitate due to non-homogeneous matrix
= Reproduceability of Benzene was unattainable due to non-homogeneous nature of the sample matrix.

AR100682

Analysis Report File SOLK1220

SOLK1220 71

11/20/91 12:37:00

Sample: METHOD BLANK

Cells: GLASS PACKED COLUMN/METHOD 62471.C 10/18/91

Formula: 5ML

Instrument: FINN

Weight: 0.000

Submitted by: PTL

Analyst: CC

Acct. No.: PTL

AMOUNT=AREA * REF AMNT/(REF AREA * RESP FACT)

Resp. fac. from Library Entry

No	Name
1	C101 BROMOCHLOROMETHANE **INT. STD. **
2	C110 1,4-DIFLUOROBENZENE **INT. STD. **
3	C120 CHLOROBENZENE-D5 **INT. STD. **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD. **
5	CS05 TOLUENE-D8 **S. STD. **
6	CS10 4-BROMOFLUOROBENZENE **S. STD. **
7	CO10 CHLOROMETHANE **
8	CO15 BROMOMETHANE
9	CO20 VINYL CHLORIDE *
10	CO25 CHLOROETHANE
11	CO30 METHYLENE CHLORIDE
12	CO51 ACROLIN
13	CO35 ACETONE
14	CO52 ACRYLONITRILE
15	CO40 CARBON DISULFIDE
16	CO45 1,1-DICHLOROETHENE *
17	CO50 1,1-DICHLOROETHANE **
18	CO55 TRANS-1,2-DICHLOROETHENE
19	CO60 TRICHLOROFLUOROMETHANE
20	CO60 CHLOROFORM *
21	CO65 1,2-DICHLOROETHANE
22	C110 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C140 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROBENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M-XYLENE
45	C253 1,3-DICHLOROBENZENE
46	C254 1,4-DICHLOROBENZENE
47	C255 1,2-DICHLOROBENZENE

AR100683

00051

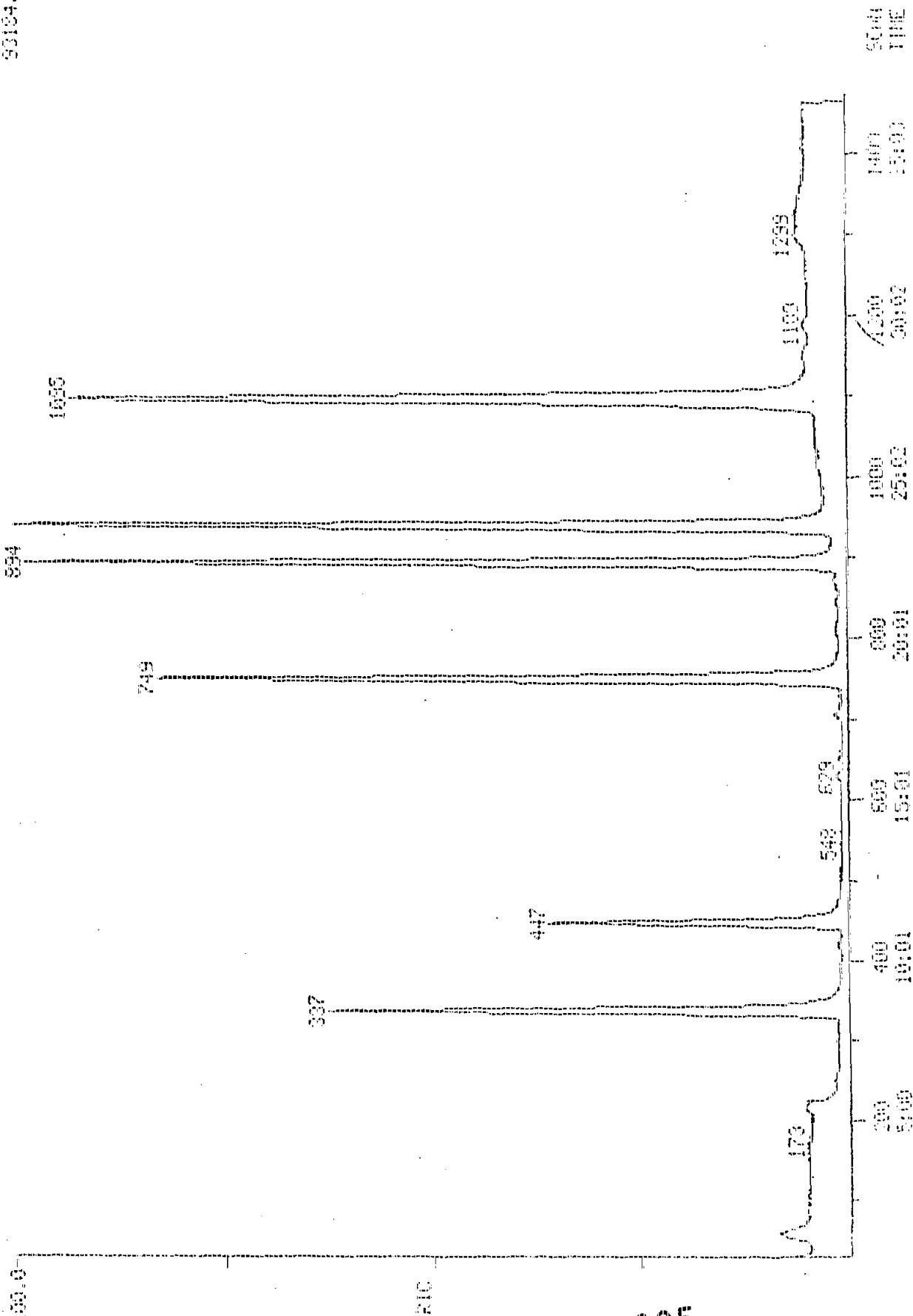
43 CR30 CAP XYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	49	337	5:25	1	1.000	A BB	123077.	50.000 NG	15.37
2	114	749	15:45	2	1.000	A BB	257555.	50.000 NG	15.37
3	117	939	23:30	3	1.000	A BB	251449.	50.000 NG	15.37
4	65	447	11:11	1	1.326	A BB	85906.	43.544 NG	14.26
5	98	874	22:23	3	0.952	A BB	275915.	51.432 NG	15.85
6	55	1096	27:26	3	1.167	A BB	205939.	51.552 NG	15.91
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	49	217	5:25	1	0.644	A BB	4179.	2.558 NG ✓	0.84
12	NOT FOUND								
13	43	251	6:17	1	0.745	A BB	1454.	4.379 NG ✓	1.43
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	43	536	13:25	2	0.716	A BB	79.	0.000 NG	0.02
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	95	630	15:45	2	0.841	A BB	1075.	0.538 NG	0.18
30	NOT FOUND								
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	43	810	20:16	3	0.853	A BB	905.	0.204 NG	0.26
39	NOT FOUND								
40	91	901	22:33	3	0.960	A BB	1490.	0.255 NG	0.08
41	NOT FOUND								
42	106	1016	25:26	3	1.082	A BB	419.	0.194 NG	0.06
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								

AR100684

00057

RIC
 12/20/91 12:37:00
 SAMPLE: METHOD BLANK
 COND.: GLASS PACKED COLUMN/METHOD 624/1.0 10/18/91
 RANGE: C 1/1474 LABEL: N 8, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3
 DATA: SBLK1220 #48
 CALL: SBLK1220 #3
 SCANS 30 TO 1474
 93184.



AR100685

PROGRAM: FILTER/TIC

DIAGNOSTIC REPORT

12/21/91 8:47:02

DATA FILE: 69LW1200

FILTER SCAN PARAMETERS

MAX NUMBER TICS: 15
 TABLE ENTRIES: 528
 SCAN TOLERANCE : 2
 MIN. RIC HT. (Z): 10
 FIRST SCAN : 1
 LAST SCAN : 1500
 TIC THRESHOLD : 500

METHOD LIBRARY & LISTS

TIC I F LIBRARY: LIBRARYLS
 NBS SEARCH PROC : SERL10
 PEAK FINDER PROC: VOME
 TCA I S LL : LS
 FILE NAME LIST : TCASEF2

TARGET COMPOUND ANALYSIS:

TARGETS (QUAN LIST)	IS PEAKS	TOTAL TARGET PEAKS
10	3	13

FILTER PROCESSING:

	<-----REJECT PEAKS----->						
TOTAL PEAKS	< 1ST SCAN	> LAST SCAN	< MIN RIC HT	< SCAN TOL	> MAX # PEAKS	TOTAL REJECTS	TOTAL TICS
6	0	0	0	6	0	6	0

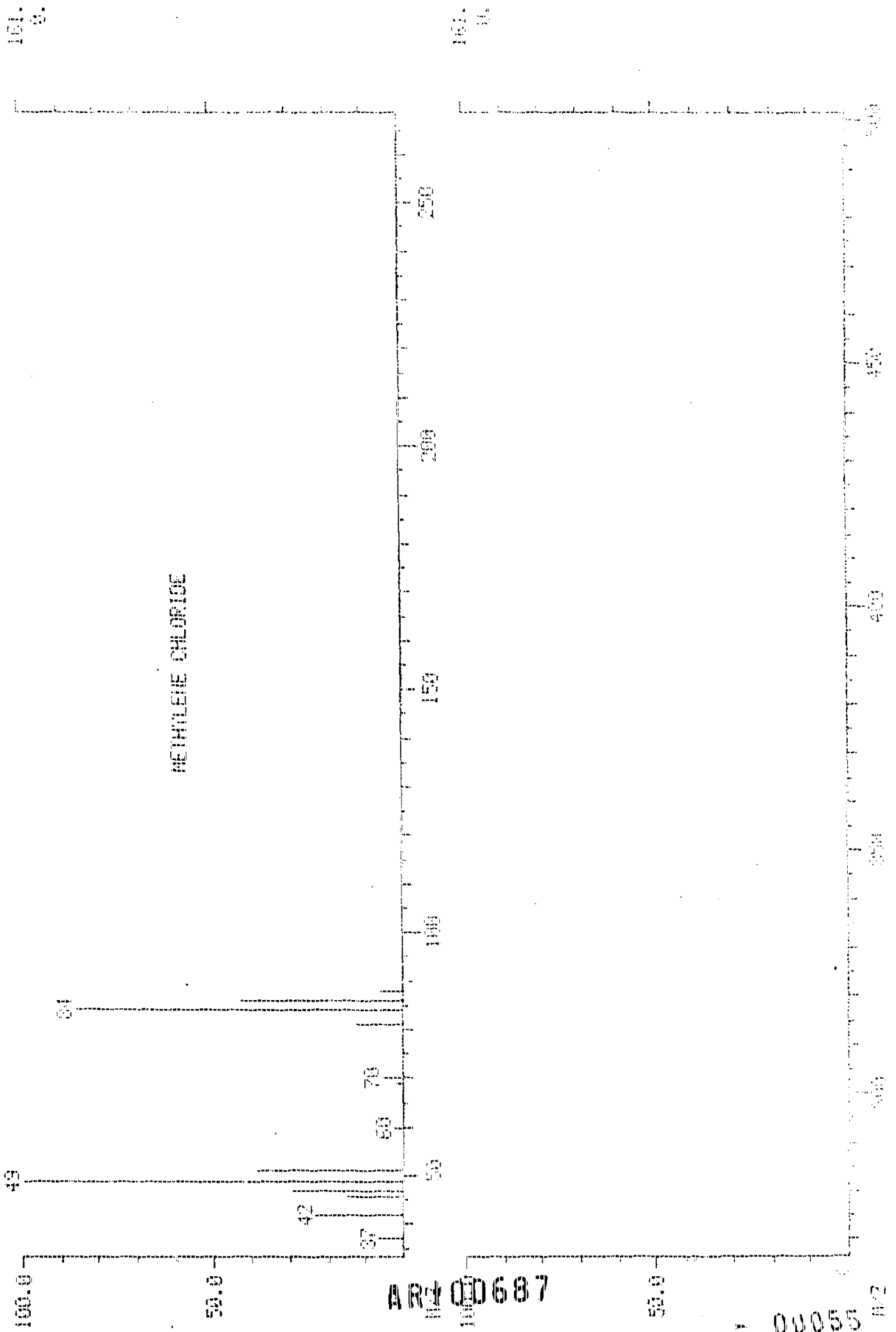
NO UNKNOWN PEAKS TO BE IDENTIFIED.

AR100686

00054

DATA: SELK1220 #217 8956 M/Z: 49
CALL: SELK1220 #0 RTD: 533.

MASS SPECTRUM
12/20/91 12:37:00 + 5:26
SAMPLE: METHOD BLANK
CONDOS.: GLASS PACKED COLUMN/METHOD 624/1.0 10/18/91
TEMP: 64 DEG. C
ENHANCED (S 100 ZH 9T)

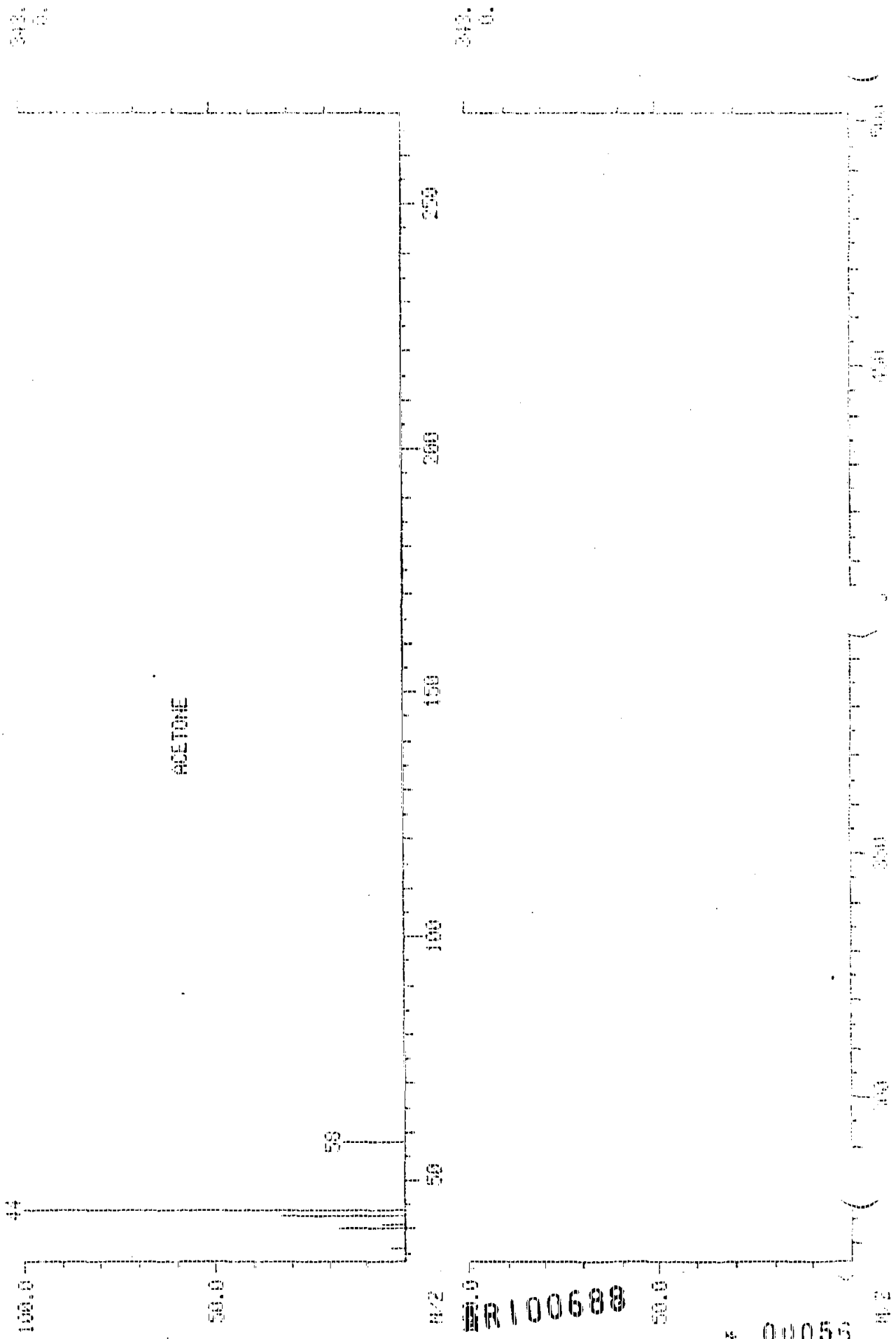


AR 000687

00055

DATA: SBLK1220 #251 BASE N/Z: 44
CALL: SBLK1220 #0 RIC: 60M.

MASS SPECTRUM
12/28/91 12:37:00 + 5:17
SAMPLE: METHOD BLANK
CONDOS.: GLASS PACKED COLUMN/METHOD. 524/1.0 10/18/91
TEMP: 71 DEG. C
ENHANCED (S 150 2N 0T)



IR 100688

00055

Quantitation Report File: 32LK12

Date: 32LK12.T1

Time: 12:15:00

Sample: METHOD BLANK

Column: OLIVER PACED COLUMN METHOD 624

Reactor: 120C/10ML

Instrument: F100

Weight: 0.000

Prepared by: PFL

Analyst: CC

Print Name: PTL

AMOUNT=AREA * RESP AMNT/(REF AREA * RESP FACT)
 Resp. Fac. from Library Entry

No	Name
1	C101 BROMOCHLOROMETHANE **INT. STD **
2	C110 1,4-DIFLUOROBENZENE **INT. STD **
3	C120 CHLOROGENZENE-D5 **INT. STD **
4	CS15 1,2-DICHLOROETHANE-D4 **S. STD **
5	CS05 TOLUENE-D8 **S. STD **
6	CS10 4-BROMOFLUOROBENZENE **S. STD **
7	CO10 CHLOROMETHANE **
8	CO15 BROMOMETHANE
9	CO20 VINYL CHLORIDE *
10	CO25 CHLOROETHANE
11	CO30 METHYLENE CHLORIDE
12	C251 ACROLIN
13	CO35 ACETONE
14	C252 ACRYLONITRILE
15	CO40 CARBON DISULFIDE
16	CO45 1,1-DICHLOROETHENE *
17	CO50 1,1-DICHLOROETHANE **
18	CO55 TRANS-1,2-DICHLOROETHENE
19	CO00 TRICHLOROFLUOROMETHANE
20	CO60 CHLOROFORM *
21	CO65 1,2-DICHLOROETHANE
22	GI10 2-BUTANONE
23	C115 1,1,1-TRICHLOROETHANE
24	C120 CARBON TETRACHLORIDE
25	C125 VINYL ACETATE
26	C130 BROMO DICHLOROMETHANE
27	C140 1,2-DICHLOROPROPANE *
28	C145 TRANS-1,3 DICHLOROPROPENE
29	C150 TRICHLOROETHENE
30	C155 DIBROMOCHLOROMETHANE
31	C160 1,1,2-TRICHLOROETHANE
32	C165 BENZENE
33	C170 CIS-1,3-DICHLOROPROPENE
34	C175 2-CHLOROETHYL VINYL ETHER
35	C180 BROMOFORM **
36	C220 TETRACHLOROETHENE
37	C210 2-HEXANONE
38	C205 4-METHYL 2-PENTANONE
39	C225 1,1,2,2-TETRACHLOROETHANE **
40	C230 TOLUENE *
41	C235 CHLOROGENZENE **
42	C240 ETHYL BENZENE *
43	C245 STYRENE
44	C250 M-XYLENE
45	C253 1,3-DICHLOROGENZENE
46	C254 1,4-DICHLOROGENZENE
47	C255 1,2-DICHLOROGENZENE

AR100689

00057

11 Date
12 0100 C18 AXLENS

NO	RT	Scan	Time	Ref	RRT	Nete	Area (Height)	Amount	NTot
1	32	307	8:22	1	1.000	A BB	198407.	51.010 NG	15.42
2	114	749	13:45	2	1.000	A BB	593757.	51.010 NG	15.42
3	117	709	20:00	3	1.000	A BB	503347.	50.000 NG	15.42
4	83	487	11:11	1	1.225	A BB	128198.	52.372 NG	15.23
5	83	574	23:23	3	0.752	A BB	547897.	47.810 NG	15.38
6	95	1075	27:25	3	1.157	A BB	380300.	52.171 NG	16.09
7	50	49	1:14	1	0.145	A BB	2179.	0.535 NG	0.16
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	49	216	5:24	1	0.641	A BB	4747.	1.519 NG	0.47
12	NOT FOUND								
13	43	257	6:26	1	0.763	A BB	7797.	12.453 NG	3.64
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	97	498	12:28	2	0.665	A BB	449.	0.099 NG	0.03
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	95	631	15:48	2	0.842	A BB	2137.	0.509 NG	0.16
30	NOT FOUND								
31	NOT FOUND								
32	78	652	14:19	2	0.870	A BB	3259.	0.293 NG	0.09
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	155	844	21:08	3	0.899	A BB	2361.	0.395 NG	0.12
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	91	901	22:03	3	0.950	A BB	5239.	0.420 NG	0.13
41	112	943	23:05	3	1.004	A BB	4375.	0.427 NG	0.13
42	105	1015	25:25	3	1.082	A BB	2255.	0.510 NG	0.16
43	104	1143	29:44	3	1.223	A BB	4077.	0.429 NG	0.15
44	105	1155	29:55	3	1.231	A BB	2915.	0.501 NG	0.19
45	145	1275	32:29	3	1.382	A BB	2005.	0.489 NG	0.15
46	145	1325	33:11	3	1.412	A VV	349.	0.091 NG	0.02
47	145	1348	33:44	3	1.425	A BB	1535.	0.300 NG	0.09
48	105	1155	29:41	3	1.263	A BB	4507.	0.459 NG	0.14

AR100690

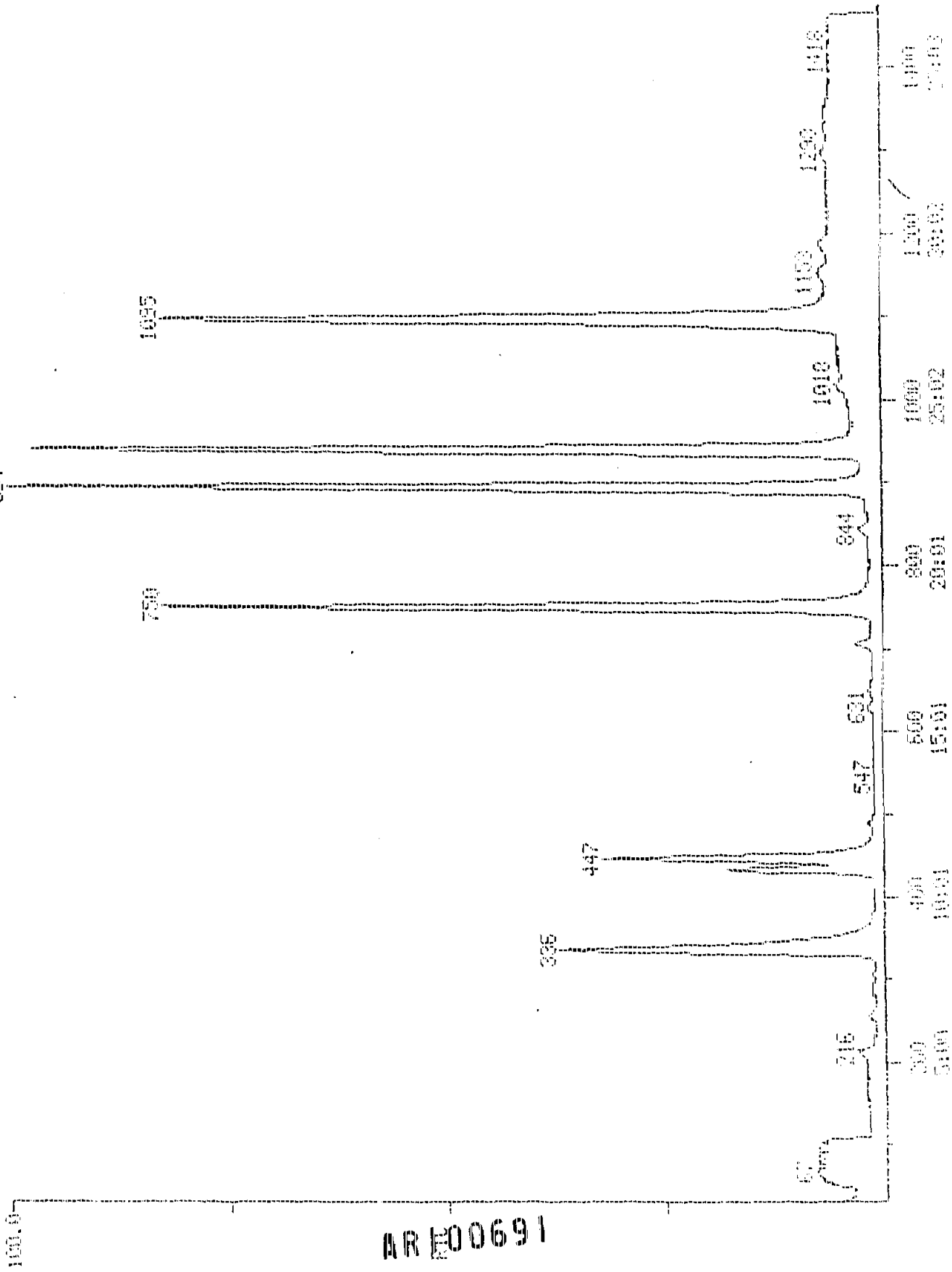
DATA: SBLK12 #48
CALI: SBLK12 #3

SCANS 30 TO 1474

RTG
01/02/92 12:15:00
SAMPLE: METHOD BLANK
CURVES: GLASS PACKED COLUMN/METHOD 624
PULSE: C 1.1474 LABEL: H 0, 4.0 QUAN: A 0, 1.0 J 0

BASE: U 20, 3

100272.



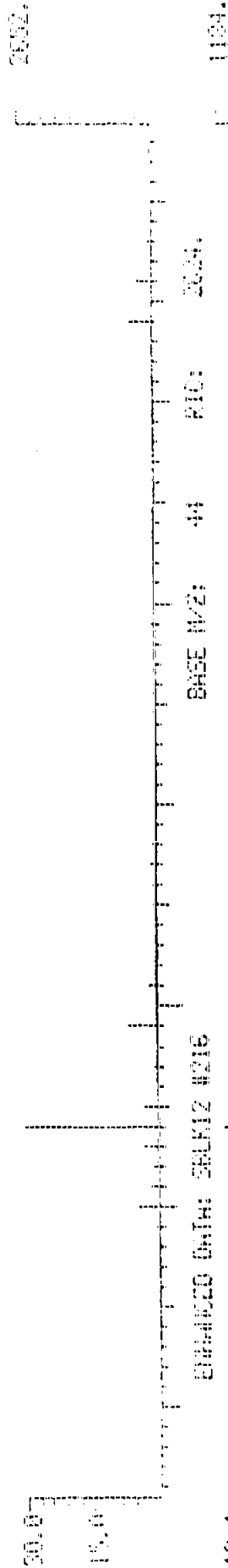
AR E00691

DATA FILE: SELK12 #216
TARGET COMPOUND: COMPARISON
COMPOUND: C630 METHYLENE CHLORIDE

STANDARD FILE: SUD12R #217
CALL: SELK12 #3

RAW DATA: SELK12 #216
01/02/92 12:15

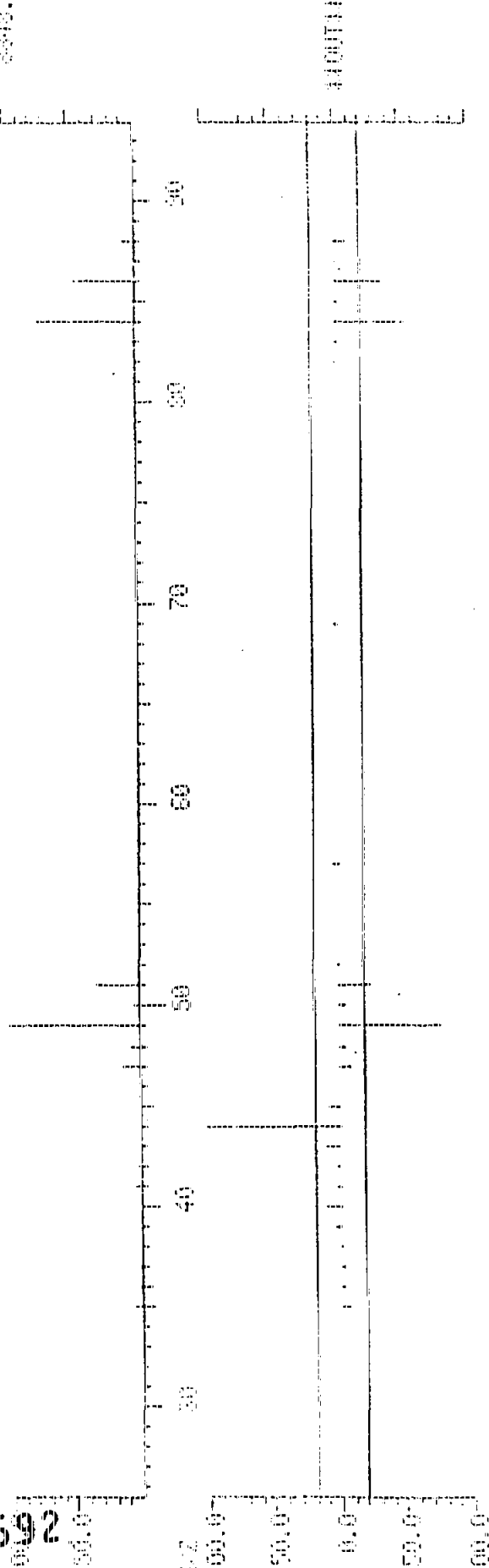
BASE M/Z: 44 RIC: 5320.



ARI00692

STANDARD FILE: SUD12R #217
01/02/92 11:09

BASE M/Z: 49 RIC: 27156.
ENHANCED (S 158 2H 0T)



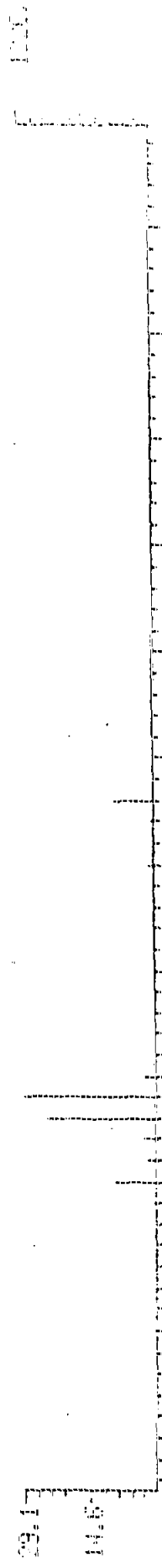
DATA FILE: SELK12 #257
TARGET COMPOUND COMPARISON
COMPOUND: COSS ACETONE

STANDARD FILE: SV012R #250

CALI: SELK12 #3

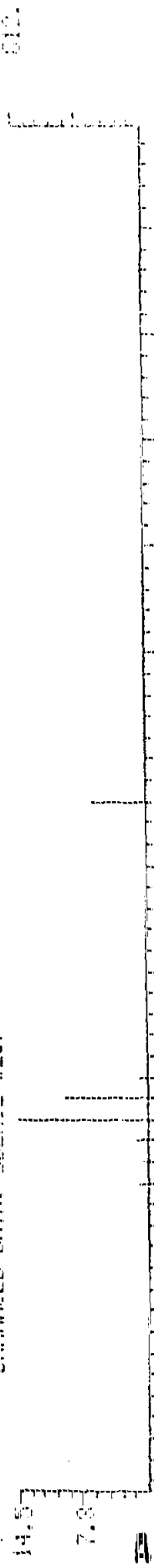
RAW DATA: SELK12 #257
01/02/92 12:15

BASE M/Z: 44 RID: 3035



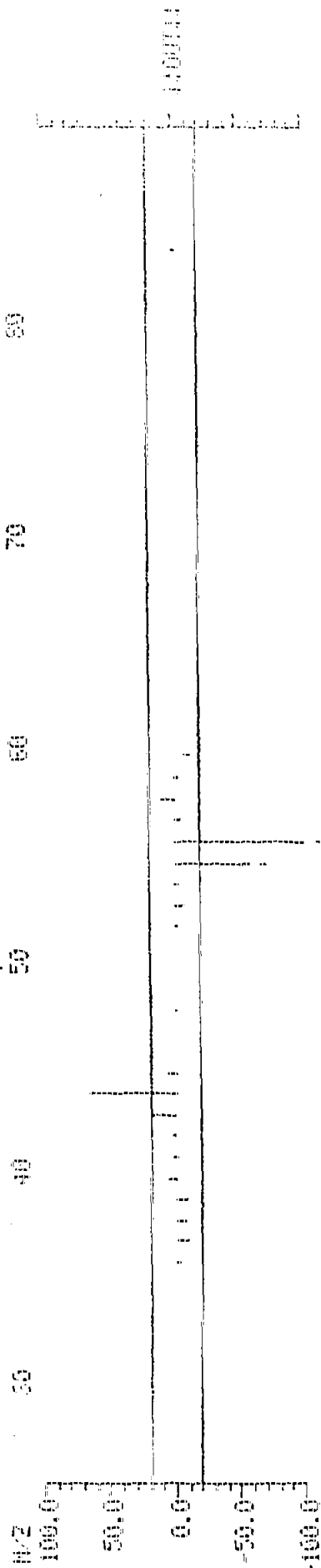
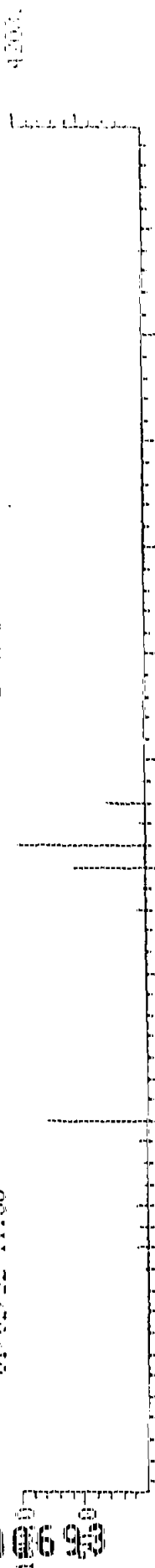
ENHANCED DATA: SELK12 #257

BASE M/Z: 43 RID: 1420



STANDARD FILE: SV012R #250
01/02/92 11:08

BASE M/Z: 55 RID: 13504
ENHANCED (S 158 2N 0T)



AR 1006 490 23

Sample: 24710-1

12/10/91 15:07:00

Sampler: 8360-1

Coats: GLASS PAKED COLUMN/METHOD 524/1 C 10/12 191

Formula: 200UL OF 4000X/5ML Instrument: FINN

Weight: 0.000

Submitted by: WESTON

Analyst: CC

Att. No: 8360

IDENTIFIED * REF AMOUNTS REF AREA * RESP FACT
Resp. Fac from Library Entry

No	Name
1	C101 2-BROMOCHLOROMETHANE **INT. STD.**
2	C110 1,4-DIFLUOROBENZENE **INT. STD.**
3	C120 CHLOROBENZENE-DB **INT. STD.**
4	C818 1,2-DICHLOROETHANE-04 **E. STD.**
5	C809 TOLUENE-DB **G. STD.**
6	C810 4-BROMOFLUOROBENZENE **S. STD.**
7	C010 CHLOROMETHANE **
8	C015 BROMOETHANE
9	C020 VINYL CHLORIDE *
10	C025 CHLOROETHANE
11	C030 METHYLENE CHLORIDE
12	C051 ACROLEIN
13	C055 ACETONE
14	C060 2-PENTANONE
15	C040 CARBON DISULFIDE
16	C045 1,1-DICHLOROETHENE *
17	C050 1,1-DICHLOROETHANE **
18	C055 TRANS-1,2-DICHLOROETHENE
19	C000 TRICHLOROFLUOROMETHANE
20	C060 CHLOROFORM *
21	C065 1,2-DICHLOROETHANE
22	C070 1,1,2,2-TETRACHLOROETHANE
23	C125 VINYL ACETATE
24	C130 BROMO DICHLOROMETHANE
25	C135 1,2-DICHLOROPROPANE *
26	C140 TRANS-1,2-DICHLOROPROPENE
27	C145 TRICHLOROETHENE
28	C150 1,2-DIBROMOCHLOROMETHANE
29	C160 1,1,2-TRICHLOROETHANE
30	C165 BENZENE
31	C140 CIS-1,3-DICHLOROPROPENE
32	C175 2-CHLOROETHYL VINYL ETHER
33	C190 BROMOFORM **
34	C220 TETRACHLOROETHENE
35	C210 2-HEXANONE
36	C205 4-METHYL 2-PENTANONE
37	C235 1,1,2,2-TETRACHLOROETHANE **
38	C200 TOLUENE *
39	C135 CHLOROBENZENE **
40	C140 ETHYL BENZENE *
41	C145 STYRENE
42	C150 1-PHENYLENE
43	C155 POLYETHYLENEGLYCOL

AR100694

1000
 17 1240 COP WYLLIE

NO	HT	SS	Time	REF	PRT	Match	Area (Height)	Volume	NG	AT
1	49	342	8:34	1	1.000	A 33	113028	30.000	NG	1.82
2	114	751	18:48	2	1.000	A 33	368986	30.000	NG	1.82
3	117	732	23:29	3	1.000	A 33	377857	30.000	NG	1.82
4	55	445	11:02	1	1.501	A 33	104956	30.173	NG	1.94
5	95	692	22:20	2	0.951	A 33	381841	47.413	NG	1.73
6	95	1094	27:26	3	1.165	A 33	291521	45.297	NG	1.77
7	50	51	11:17	1	0.149	A 33	2353	1.200	NG	0.05
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	48	301	5:30	1	0.343	A 33	3595	5.515	NG	0.21
12	NOT FOUND									
13	NOT FOUND									
14	50	337	4:59	1	0.314	A 33	300071	1.000	NG	1.13
15	NOT FOUND									
16	NOT FOUND									
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	30	451	11:32	2	0.314	A 33	510112	1.000	NG	51.44
23	NOT FOUND									
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	NOT FOUND									
32	78	650	16:16	2	0.664	A 33	2097	1.000	NG	0.32
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	51	377	22:01	3	0.573	A 33	3121261	134.212	NG	21.36
40	NOT FOUND									
41	NOT FOUND									
42	106	1015	22:24	3	1.092	A 33	301497	31.371	NG	3.38
43	NOT FOUND									
44	106	1152	22:56	3	1.332	A 33	618600	132.371	NG	5.94
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									
48	102	1183	22:41	3	1.254	A 33	460049	33.317	NG	2.28

X 100

FH

#100000

AR100695

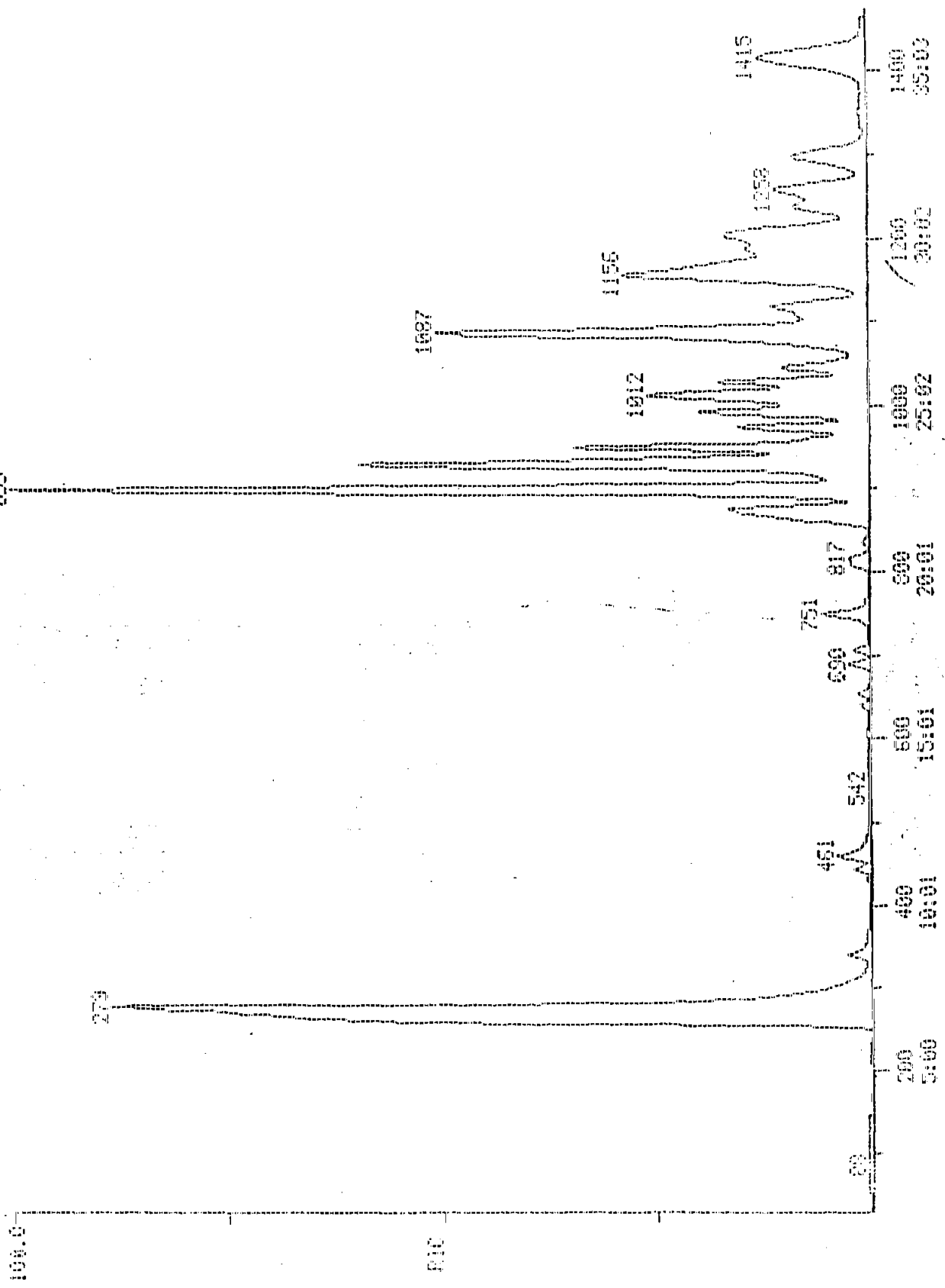
00063

DATA: 54900 #46
CALLI: 54900 #3

12/20/91 15:07:00

SAMPLE: 8050-1
COND.: GLASS PAKED COLUMN/METHOD 52471.C 10/18/91
RANGE: C 1.1474 LABEL: N 0. 4.0 QUAN: A 0. 1.0 J 0 PAGE: U 20. 3

2551470.

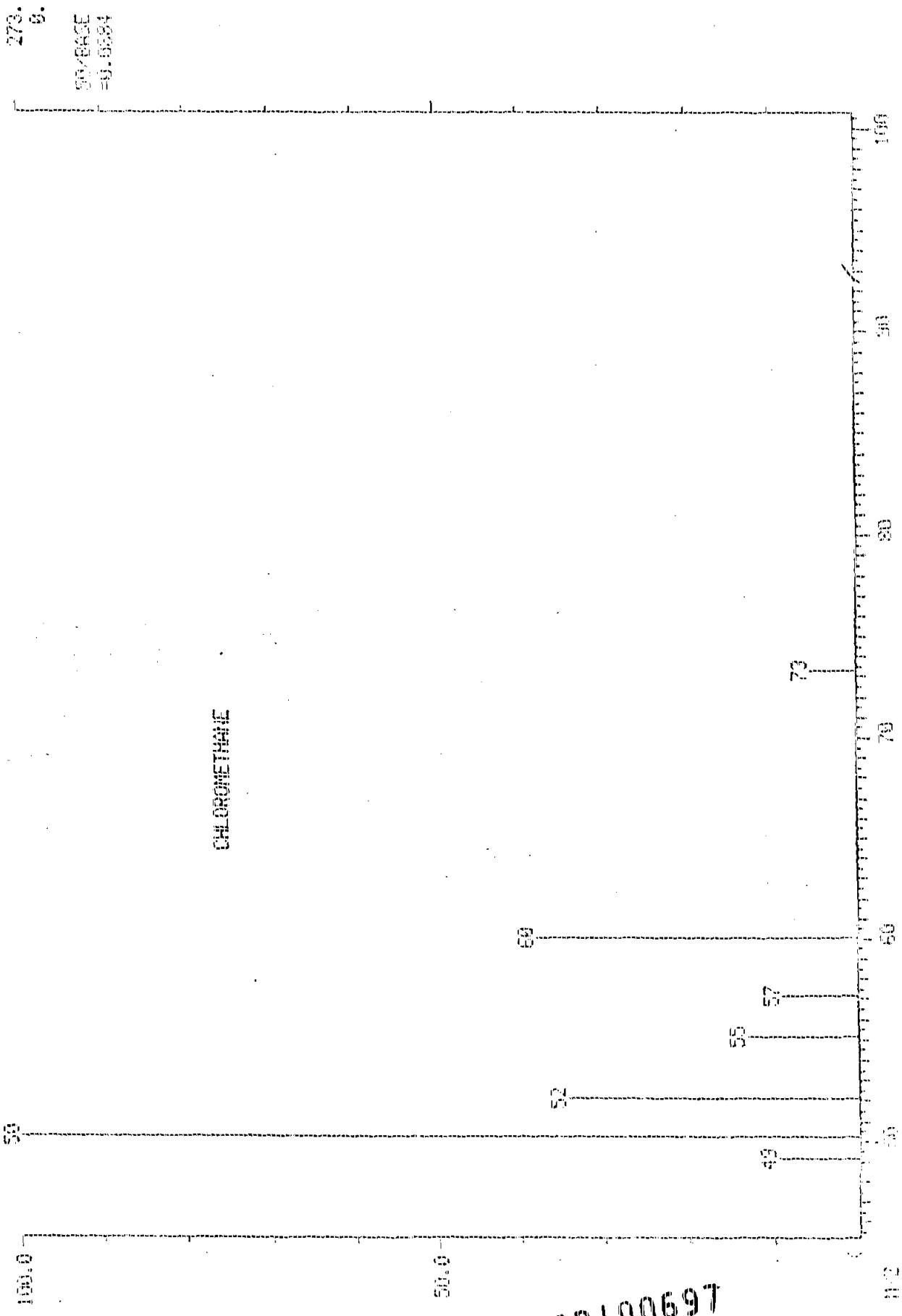


AR100696

00067

DATA: 54900 #50
CALL: 54900 #3
BASE M/Z: 44
RIC: 4944.

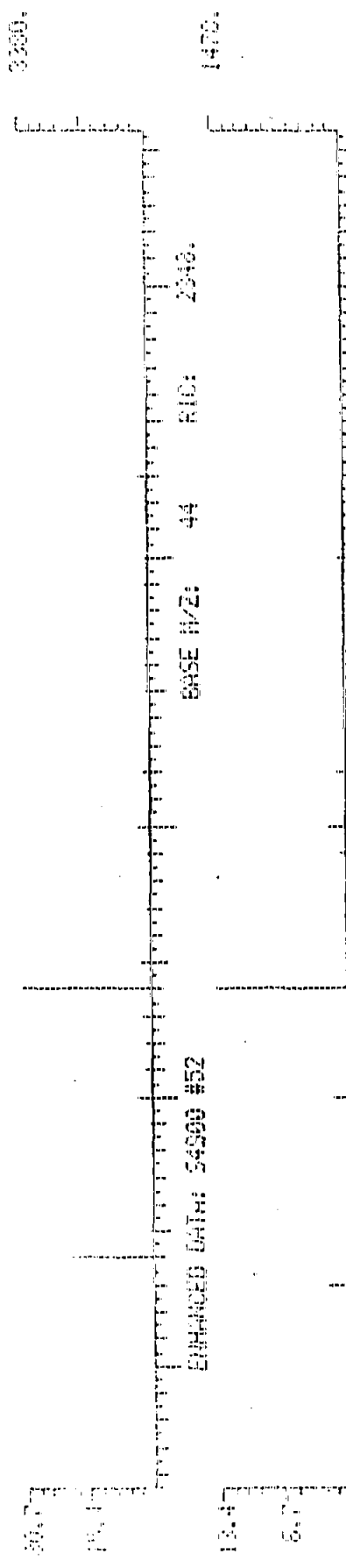
MASS SPECTRUM
12/20/91 15:07:00 + 1:15
SAMPLE: 8950-1
COND5.: GLASS PACKED COLUMN/METHOD 624/1.C 10/18/91
TEMP: 45 DEG. C



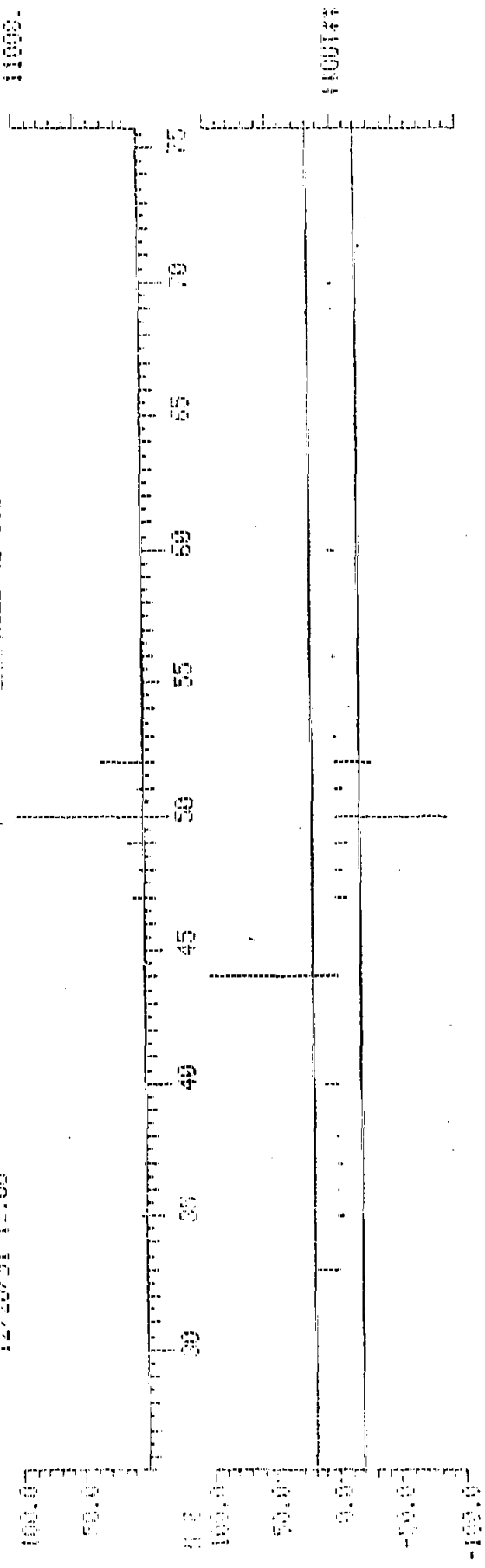
AR100697

DATA FILE: S4900 #52 STANDARD FILE: SU01220R #48
TARGET COMPOUND COMPARISON CALL: S4900 #3
COMPOUND: C010 CHLOROMETHANE **

RAW DATA: S4900 #52 BASE M/Z: 44 RIC: 8672.
12/20/91 15:07



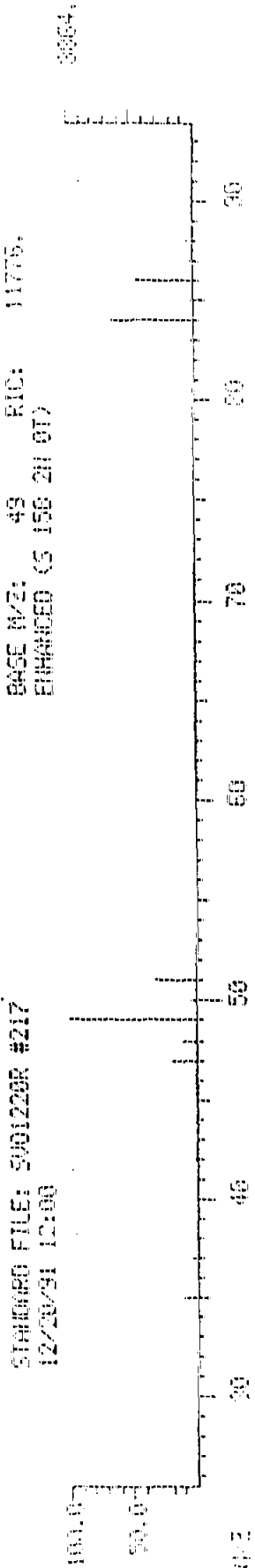
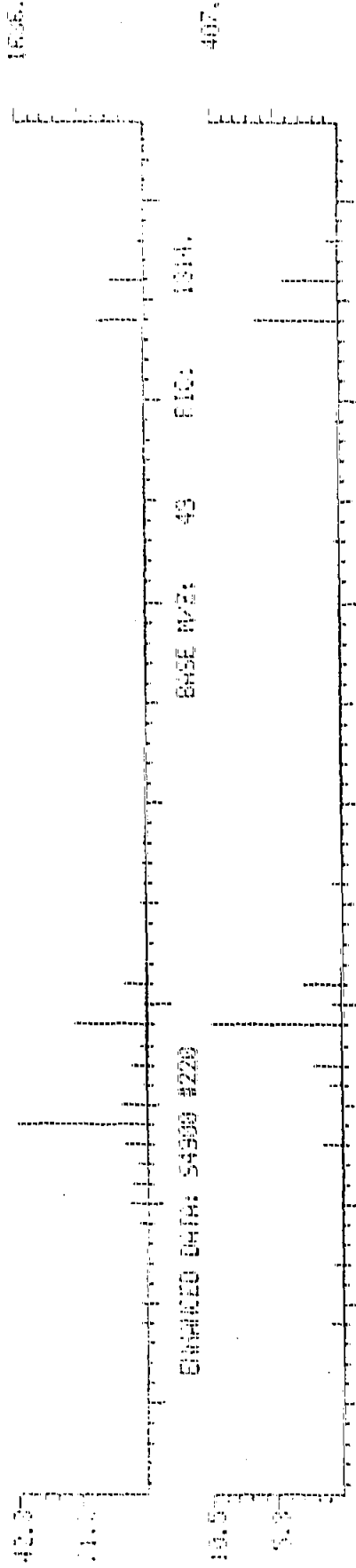
STANDARD FILE: SU01220R #48 BASE M/Z: 50 RIC: 19008.
12/20/91 12:00 ENHANCED (S 150 2N 0T)



AR100698

DATA FILE: S4900 #220 STANDARD FILE: S001220R #217
TARGET COMPOUND COMPARISON CALI: S4900 #3
COMPOUND: 0030 METHYLENE CHLORIDE

RAN DATA: S4900 #220 BASE M/Z: 44 RIC: 5704.
12/20/91 15:07



AR100699

-100.0

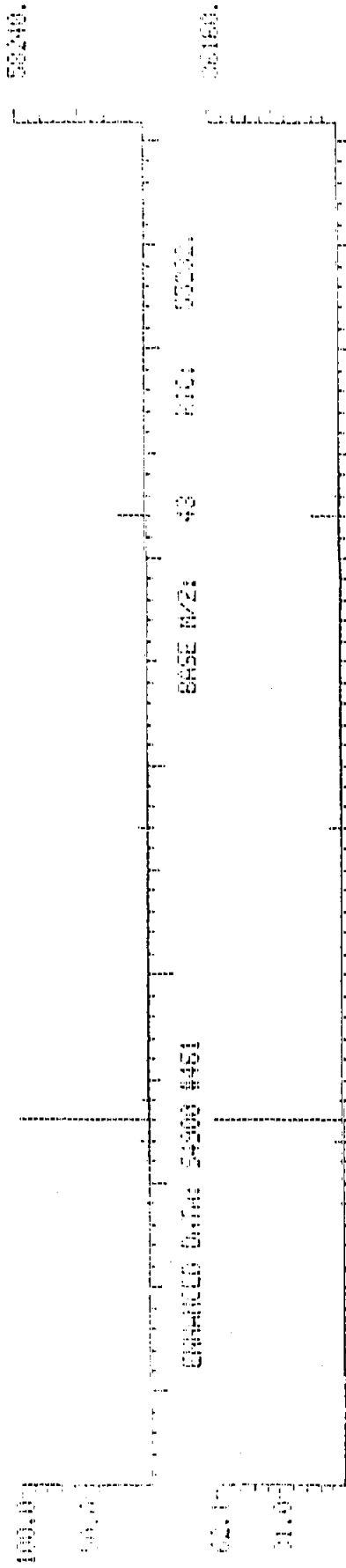
DATA FILE: 54900 #461
TARGET COMPOUND COMPARISON
COMPOUND: C110 2-BUTANONE

STANDARD FILE: S001220R #456

CALL: 54900 #3

RAW DATA: 54900 #461
12/20/91 15:07

BASE M/Z: 43 RIG: 89600.

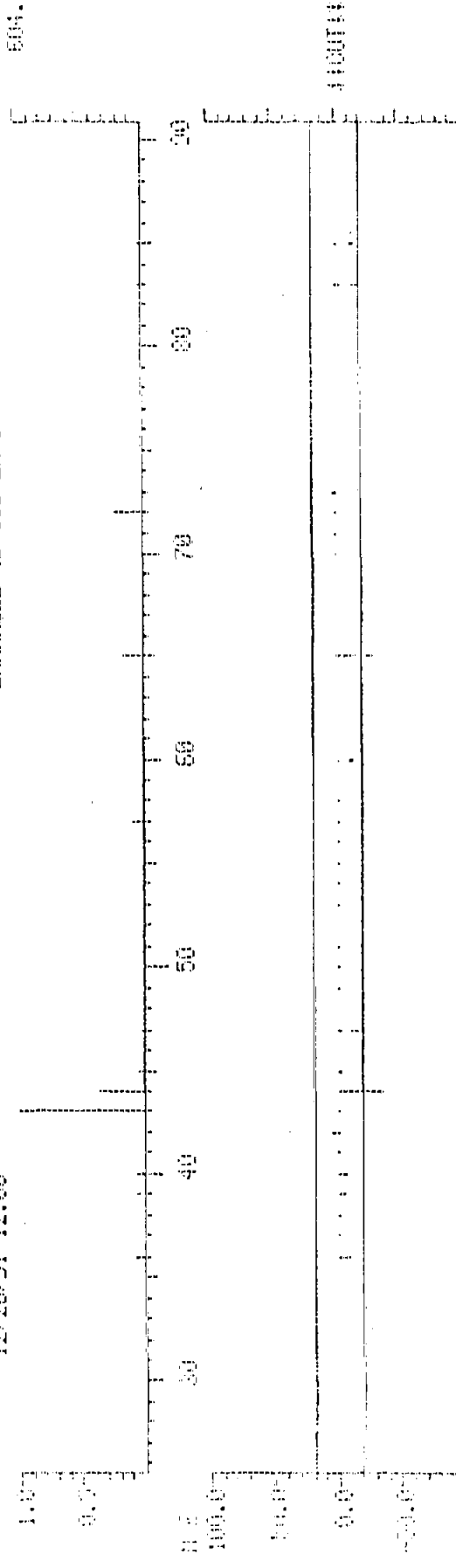


ENHANCED Data: 54900 #461

BASE M/Z: 43 RIG: 55200.

STANDARD FILE: S001220R #456
12/20/91 12:00

BASE M/Z: 43 RIG: 1255.
ENHANCED (S 158 2H 9T)



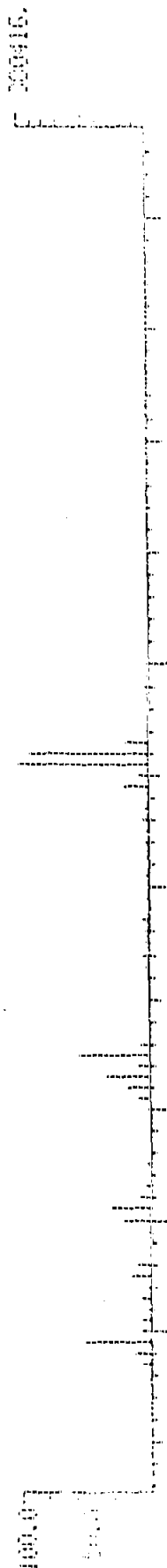
AR100700

DATA FILE: 54900 #899
TARGET COMPOUND COMPARISON
COMPOUND: C200 TOLUENE *

STANDARD FILE: S001220R #901
CALI: 54900 #8

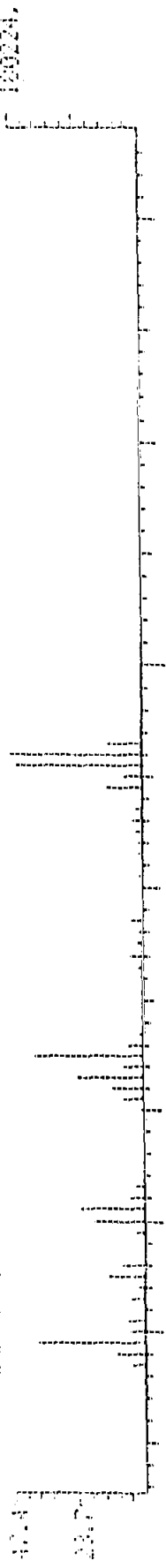
RAW DATA: 54900 #899
12/20/91 15:07

BASE M/Z: 91 RIC: 2285676



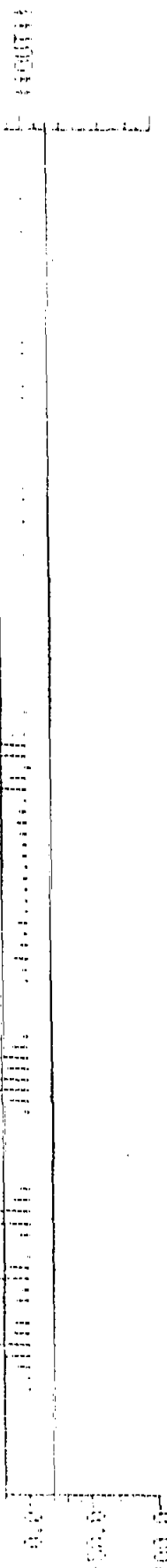
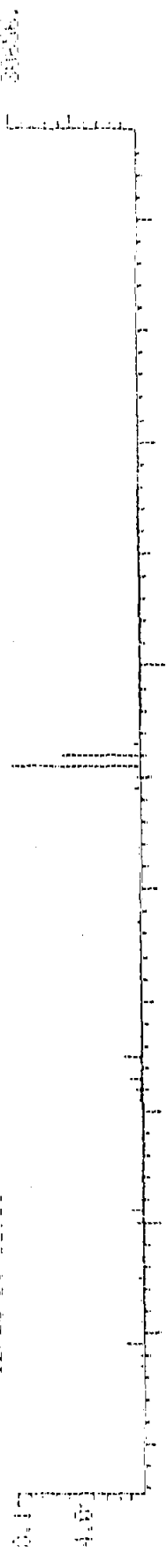
ENHANCED DATA: 54900 #899

BASE M/Z: 91 RIC: 1474060



STANDARD FILE: S001220R #901
12/20/91 12:00

BASE M/Z: 91 RIC: 74496
ENHANCED (5 158 2H 8T)

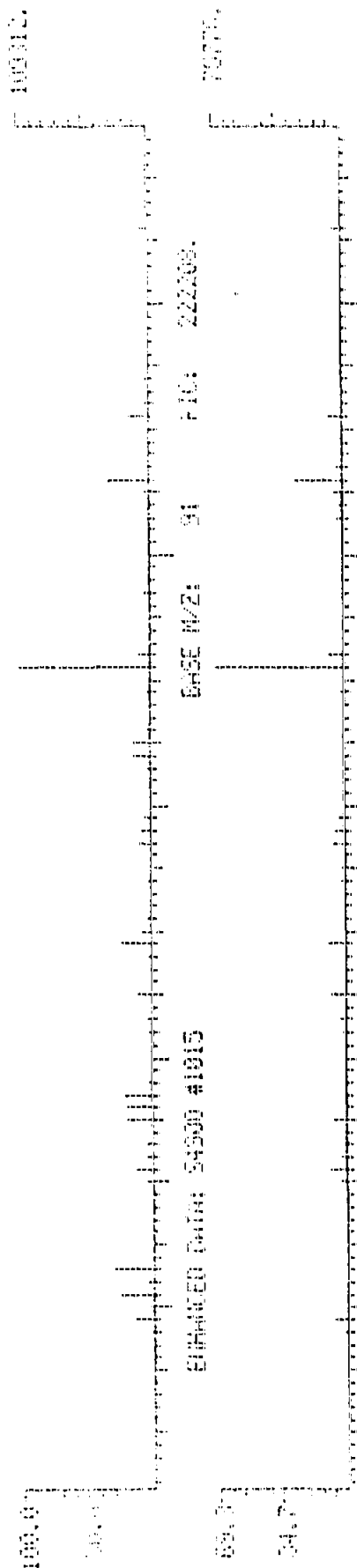


AR100701

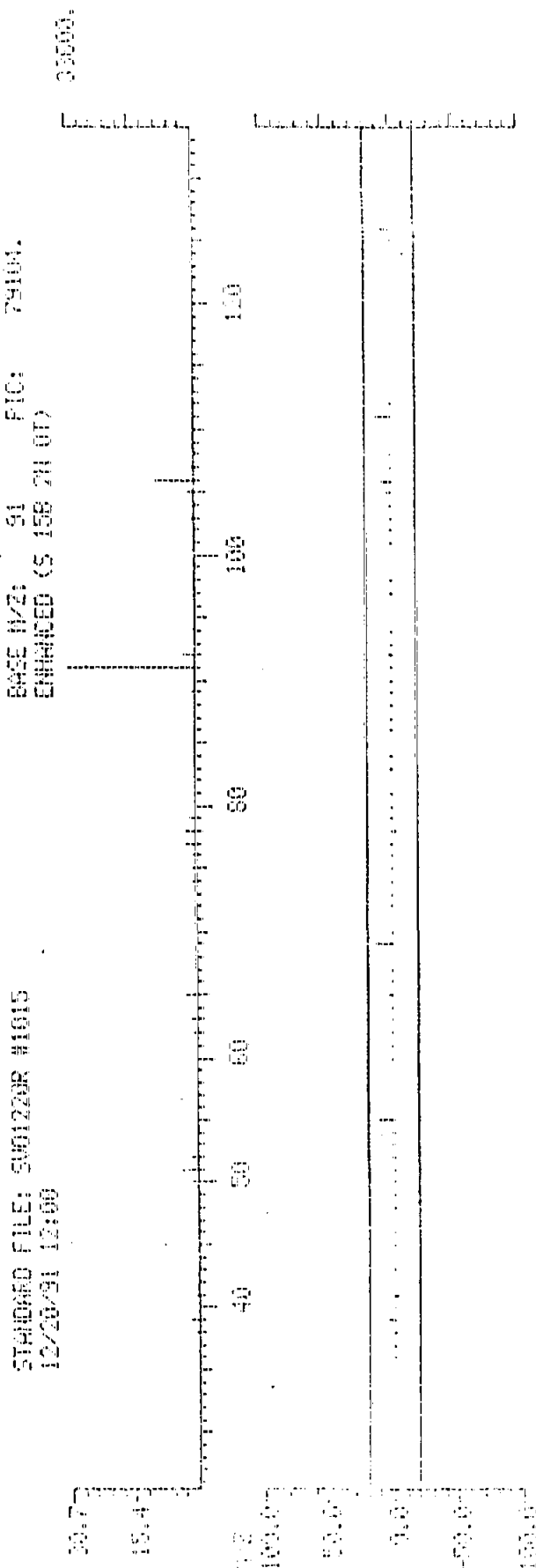
00069

DATA FILE: 54900 #1015
STANDARD FILE: SVD1220R #1015
TARGET COMPOUND COMPARISON
CALL: 54900 #3
COMPOUND: 0240 ETHYL BENZENE *

RUN DATE: 54900 #1015
12/20/91 15:07
BASE N/Z: 91
RIC: 510454.



STANDARD FILE: SVD1220R #1015
12/20/91 12:00
ENHANCED (S 158 2H 0T)



AR100702

00079

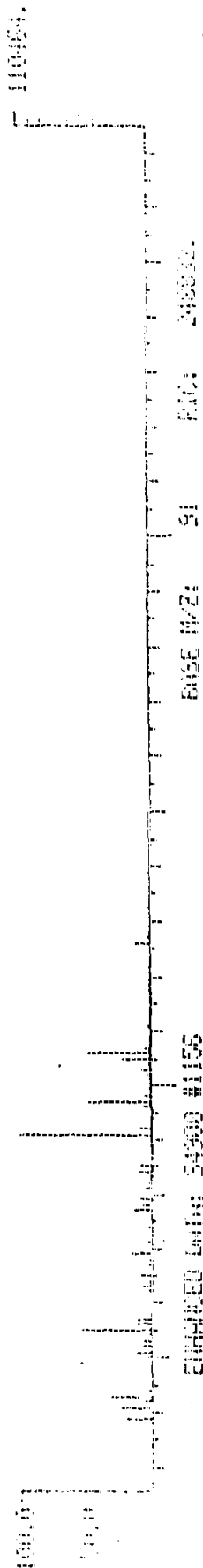
DATA FILE: 54900 #1156
TARGET COMPOUND COMPARISON
COMPOUND: C250 N-XYLENE

STANDARD FILE: S001220R #1156

CALL: 54900 #3

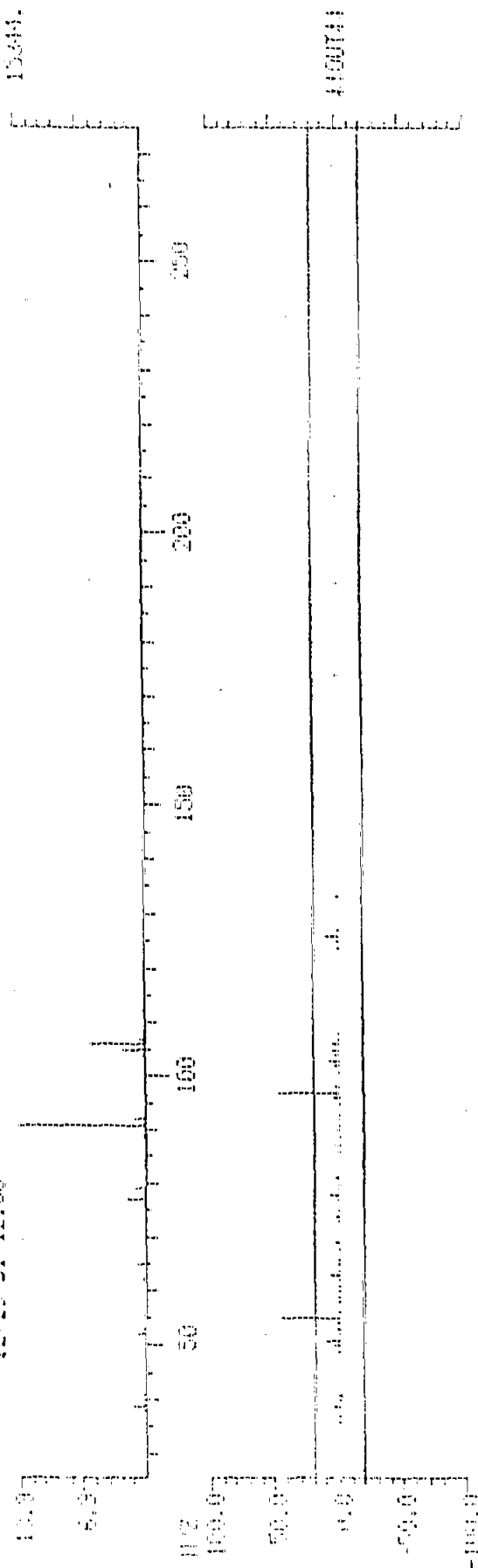
RAW DATA: 54900 #1156
12/20/91 15:07

BASE M/Z: 91 FID: 545120.



STANDARD FILE: S001220R #1156
12/20/91 12:00

BASE M/Z: 91 FID: 36608.
ENRICHED (S 158 2H 0T)



AR100703

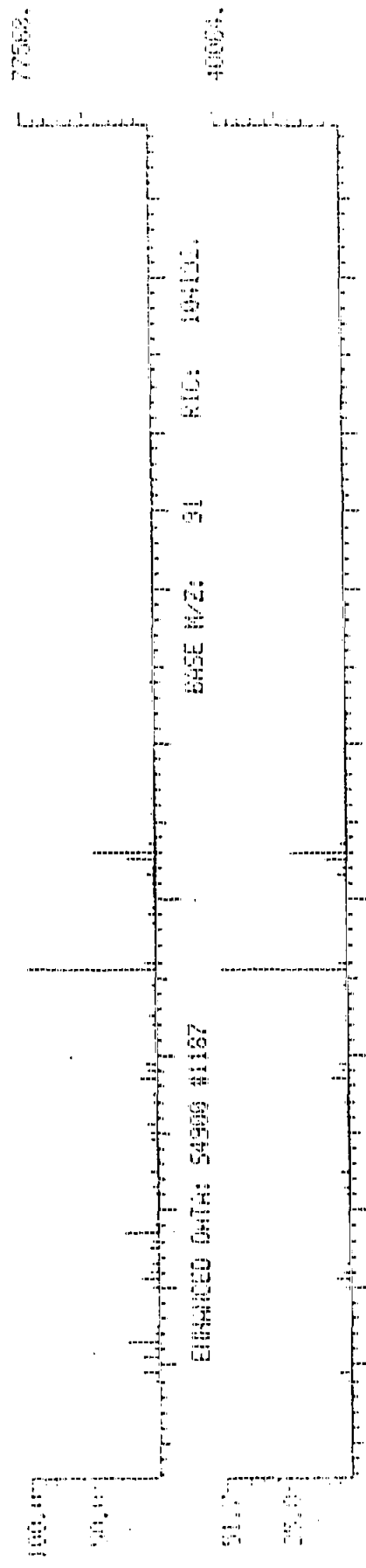
00071

DATA FILE: S4900 #1187
TARGET COMPOUND COMPARISON
COMPOUND: O250 O&P XYLENE

RAW DATA: S4900 #1187
12/20/91 15:07

STANDARD FILE: S001220R #1185
CALI: S4900 #3

BASE M/Z: 91 RIC: 317452.

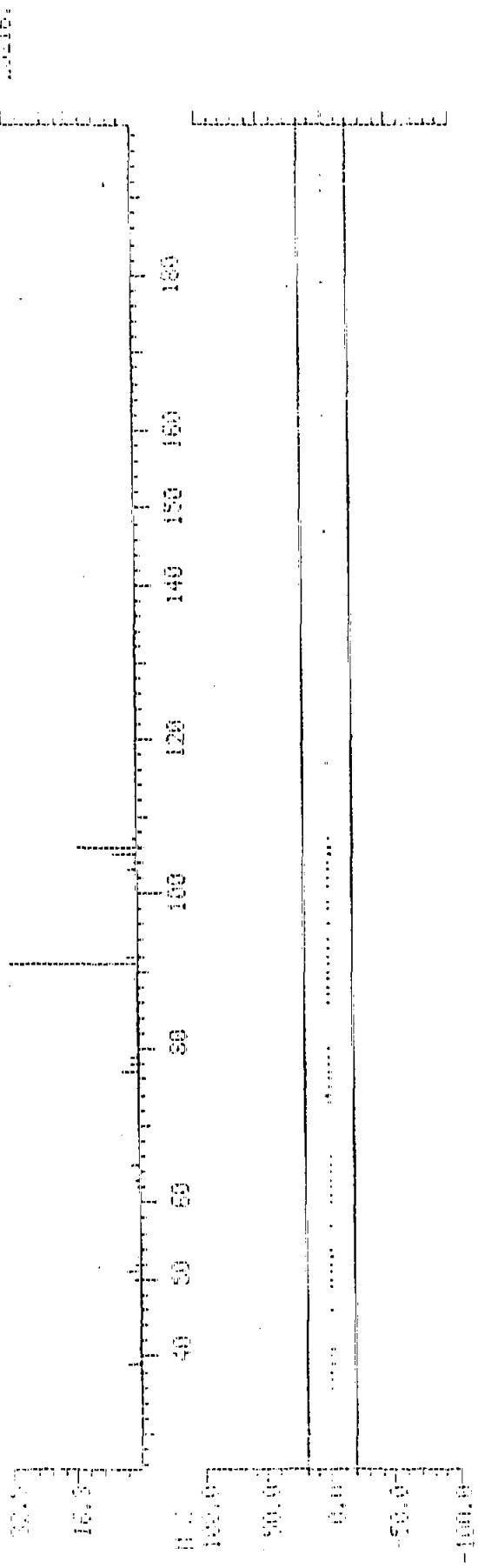


ENHANCED DATA: S4900 #1187

BASE M/Z: 91 RIC: 104102.

STANDARD FILE: S001220R #1185
12/20/91 12:00

BASE M/Z: 91 RIC: 60004.
ENHANCED (S 158 211 0T)



AR100704

00072

Qualification Report File 84700

Date: 84902.TI
Time: 15:35:00
Serial: 835072

#0402

Sample: GLASS PACKED COLUMN/METHOD #24/1.0 10/12/91
Portals: 100UL OF ROCK/5ML Instrument: FINN
Published by: WESTON Analyst: CC

Weight: 0.000
Salt: 0.8150

AMOUNT=AREA * REF AMNT/REF AREA * RESP FACT
Resp. fac. from Library Entry

- 1 C101 BROMOCHLOROMETHANE **INT. STD.**
- 2 C110 1,4-DIFLUOROBENZENE **INT. STD.**
- 3 C120 CHLOROBENZENE-D5 **INT. STD.**
- 4 C615 1,2-DICHLOROETHANE-D4 **S. STD.**
- 5 C605 TOLUENE-D8 **S. STD.**
- 6 C610 4-BROMOFLUOROBENZENE **S. STD.**
- 7 C010 CHLOROMETHANE **
- 8 C015 BROMOMETHANE
- 9 C020 VINYL CHLORIDE *
- 10 C025 CHLOROETHANE
- 11 C030 METHYLENE CHLORIDE
- 12 C251 ACROLIN
- 13 C035 ACETONE
- 14 C252 ACRYLONITRILE
- 15 C040 CARBON DISULFIDE
- 16 C045 1,1-DICHLOROETHENE *
- 17 C050 1,1-DICHLOROETHANE **
- 18 C055 TRANS-1,2-DICHLOROETHENE
- 19 C000 TRICHLOROFLUOROMETHANE
- 20 C060 CHLOROFORM *
- 21 C065 1,2-DICHLOROETHANE
- 22 C110 2-BUTANONE

- 24 C120 CARBON TETRACHLORIDE
- 25 C125 VINYL ACETATE
- 26 C130 BROMO DICHLOROMETHANE
- 27 C140 1,2-DICHLOROPROPANE *
- 28 C145 TRANS-1,3 DICHLOROPROPENE
- 29 C150 TRICHLOROETHENE
- 30 C155 DIBROMOCHLOROMETHANE
- 31 C150 1,1,2-TRICHLOROETHANE
- 32 C165 BENZENE
- 33 C143 CIS-1,3-DICHLOROPROPENE
- 34 C175 2-CHLOROETHYL VINYL ETHER
- 35 C180 BROMOFORM **
- 36 C220 TETRACHLOROETHENE
- 37 C210 2-HEXANONE
- 38 C205 4-METHYL 2-PENTANONE
- 39 C225 1,1,2,2-TETRACHLOROETHANE **
- 40 C230 TOLUENE *
- 41 C235 CHLOROBENZENE **
- 42 C240 ETHYL BENZENE *
- 43 C245 STYRENE
- 44 C250 2-PYRIDINE
- 45 C255 1,2-DICHLOROETHANE
- 46 C260 1,1,2,2-TETRACHLOROETHANE

ARI00705

100% OCP XYLENE

Scan	Time	Ref	RRT	Match	Area (Height)	Amount	WT%
1	8:25	1	1.000	A BB	103854.	50.000 NG	2.03
2	18:43	2	1.000	A BB	369524.	50.000 NG	2.03
3	23:29	3	1.000	A BB	353425.	50.000 NG	2.03
4	11:07	1	1.318	A BB	102508	59.192 NG	2.40
5	22:21	3	0.952	A BB	395724.	52.656 NG	2.13
6	27:23	3	1.166	A BB	275531.	49.175 NG	1.99
7						NOT FOUND	
8						NOT FOUND	
9						NOT FOUND	
10						NOT FOUND	
11	5:24	1	0.641	A BB	12214	8.812 NG ✓	0.36
12						NOT FOUND	
13	5:27	1	0.766	A BB	16186	57.456 NG ✓	2.33
14						NOT FOUND	
15						NOT FOUND	
16						NOT FOUND	
17						NOT FOUND	
18						NOT FOUND	
19						NOT FOUND	
20						NOT FOUND	
21						NOT FOUND	
22						NOT FOUND	
23						NOT FOUND	
24						NOT FOUND	
25						NOT FOUND	
26						NOT FOUND	
27						NOT FOUND	
28						NOT FOUND	
29						NOT FOUND	
30						NOT FOUND	
31						NOT FOUND	
32						NOT FOUND	
33						NOT FOUND	
34						NOT FOUND	
35						NOT FOUND	
36	21:11	3	0.902	A BB	1502	0.125 NG	0.01
37						NOT FOUND	
38						NOT FOUND	
39						NOT FOUND	
40	22:33	3	0.961	A BB	453232.	55.473 NG ✓	2.25
41						NOT FOUND	
42	25:23	3	1.081	A BB	2141500.	703.950 NG ✓	28.59
43						NOT FOUND	
44	29:53	3	1.230	A BB	3531540.	997.302 NG ✓	40.44
45						NOT FOUND	
46						NOT FOUND	
47						NOT FOUND	
48	29:40	3	1.263	A BB	2277840.	231.055 NG ✓	13.42

X 10,000

AR100706

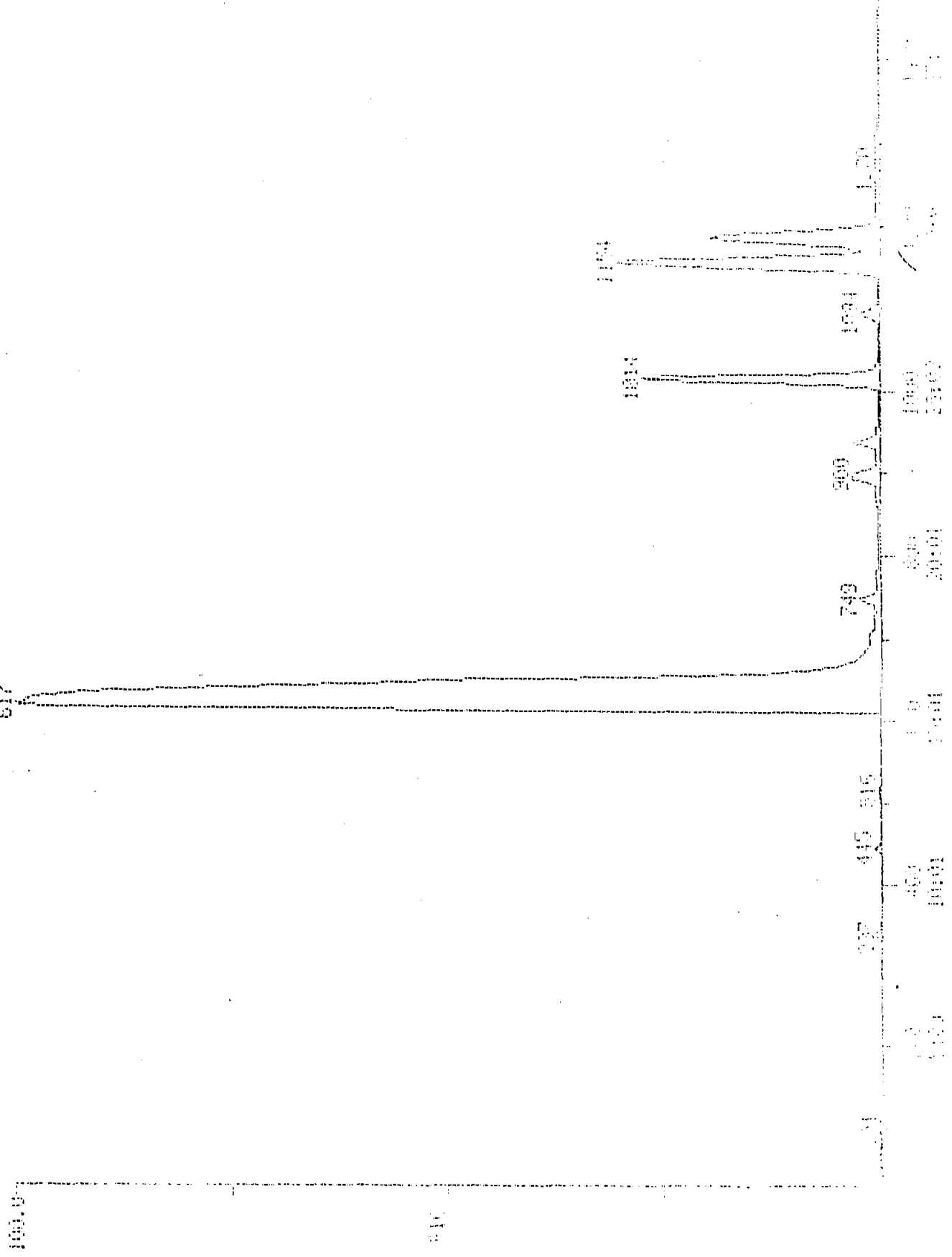
00074

DATA: 51902 416 SCHEM 20 TO 1174
CALL: 51902 416

12/20/91 15:58:00
SAMPLE: 80512-4 cc.

CONTR.: GLASS PAKED COLUMN/METHOD 624/1.C 10/18/91
NAME: G 1.1474 LABEL: N 9, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3

52571601



AR100707

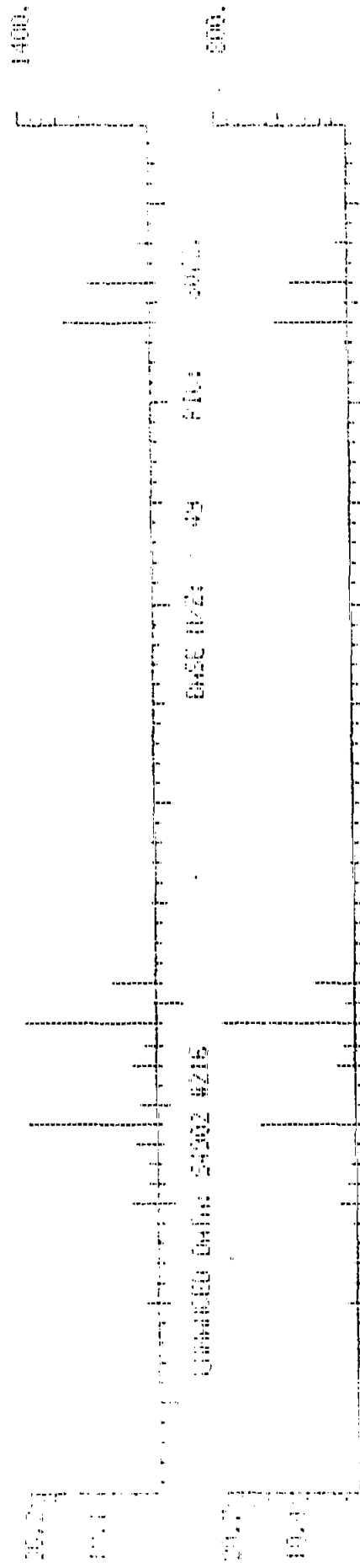
00075

DATA FILE: 54902 #216
TARGET COMPOUND COMPARISON
COMPOUND: DDBO METHYLENE CHLORIDE

STANDARD FILE: S001230R #217
CALL: 54902 #3

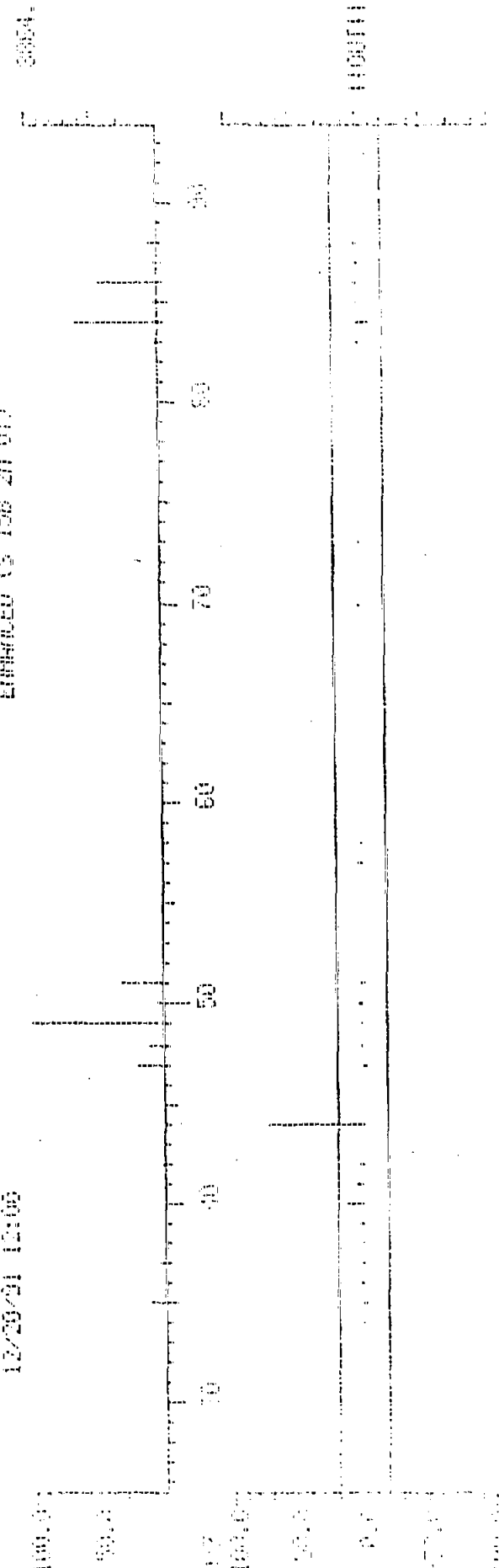
RAW DATA: 54902 #216
12/29/91 15:36

BASE 1/2: 49 RIC: 5103.



STANDARD FILE: S001230R #217
12/29/91 12:06

BASE 1/2: 49 RIC: 1175.
ENHANCED (S 150 2H 0T)



AR100708

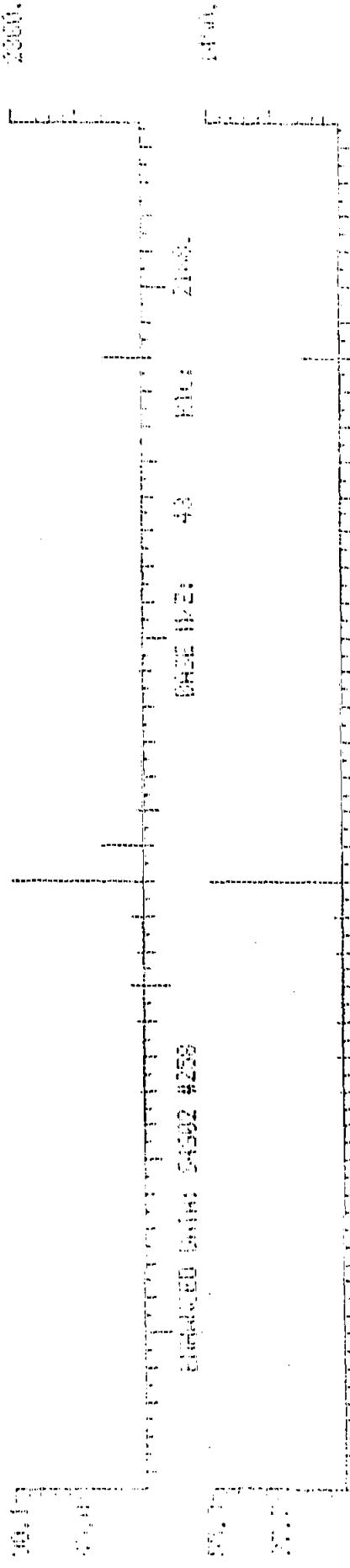
00076

DATA FILE: S4902 #250
TARGET COMPOUND COMPARISON
COMPOUND: C035 ACETONE

STANDARD FILE: S001220R #250
CALL: S4902 #3

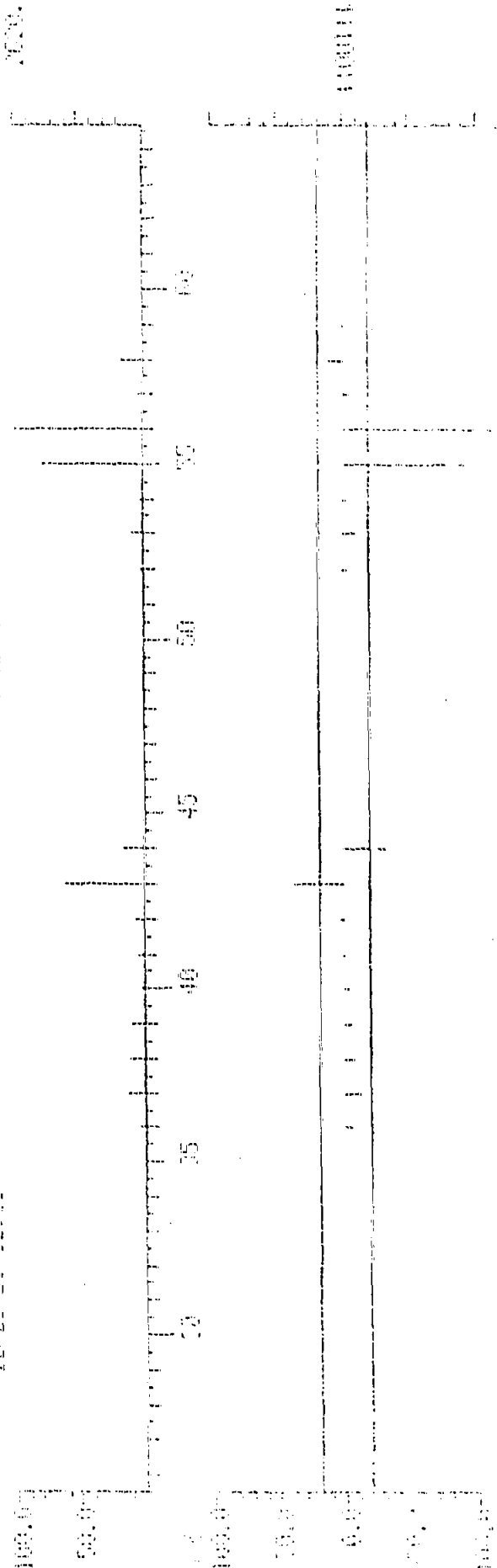
PMU DATA: S4902 #250
12/20/91 16:06

BASE M/Z: 43 RIC: 4712



STANDARD FILE: S001220R #250
12/20/91 12:00

BASE M/Z: 55 RIC: 4006
ENHANCED (S 150 20 00)



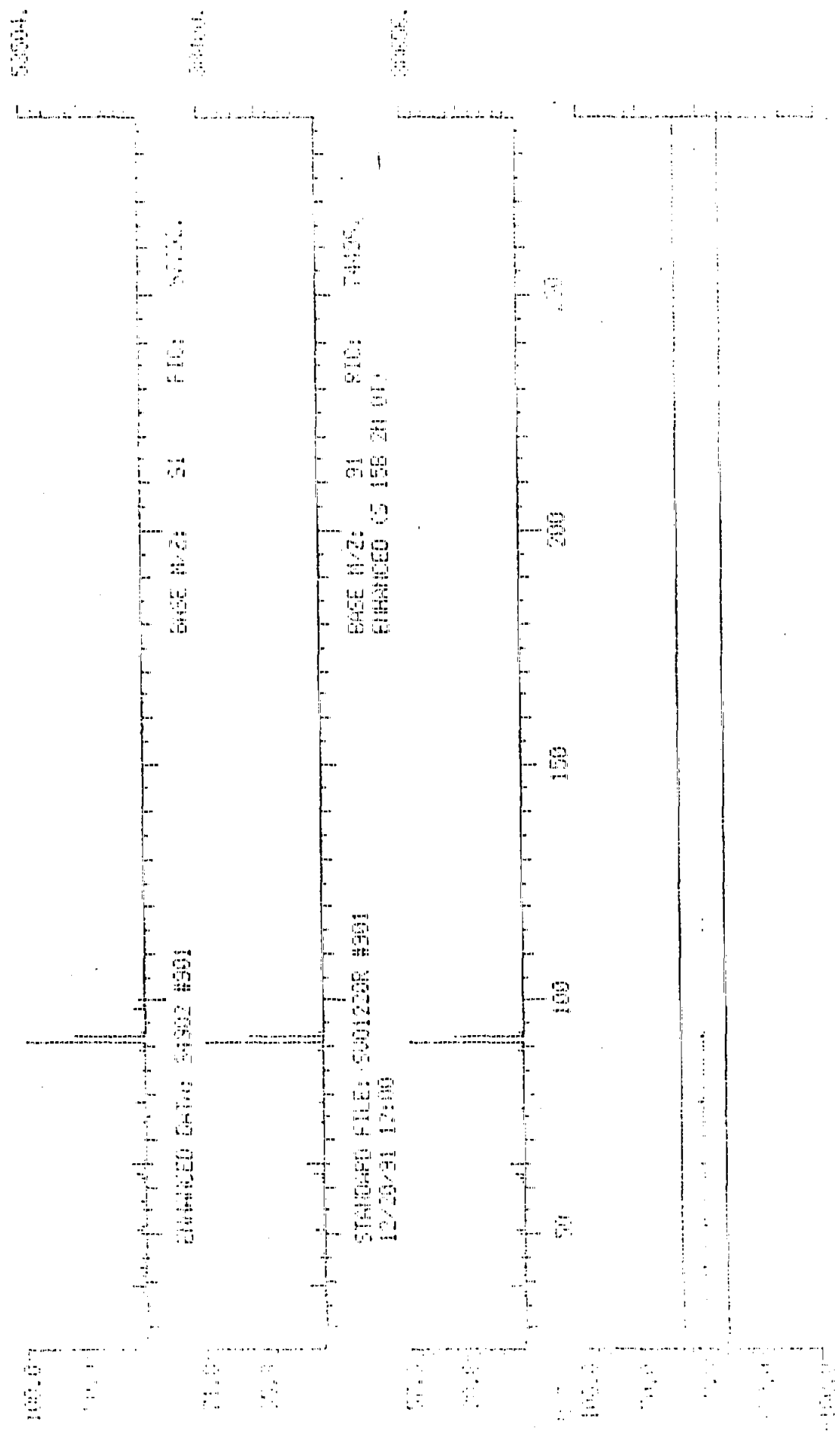
AR100709

DATA FILE: 34902 #901
TARGET COMPOUND COMPARISON
COMPOUND: C230 TOLUENE *

STANDARD FILE: S001220R #901
CALL: S4902 #3

RAW DATA: 34902 #901
12/29/91 16:35

BASE N/Z: 91 RIG: 172832.



AR100710

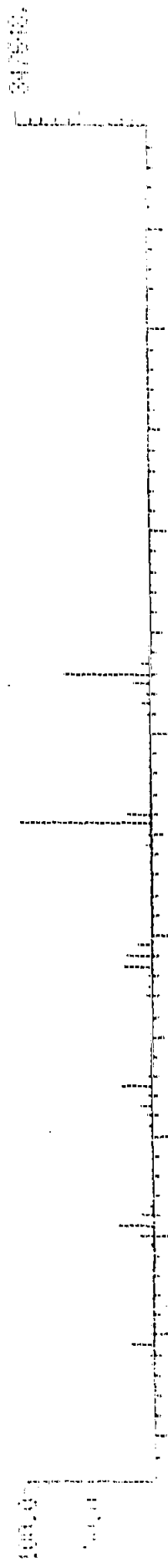
00078

DATA FILE: S4902 #1014
TARGET COMPOUND COMPARISON
COMPOUND: C240 ETHYL BENZENE *

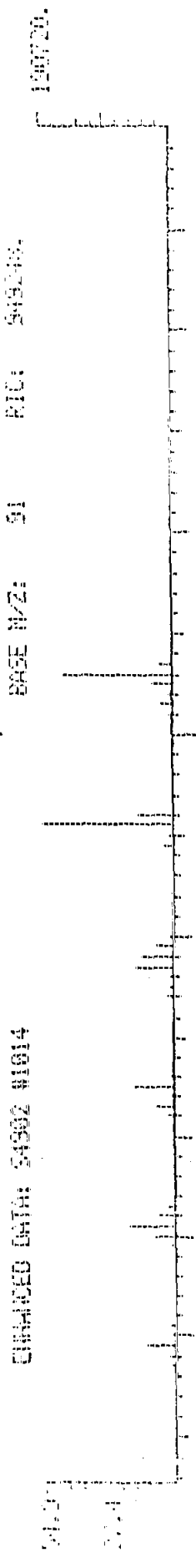
STANDARD FILE: SV01220R #1015
CALI: S4902 #3

RAW DATA: S4902 #1014
12/20/91 16:35

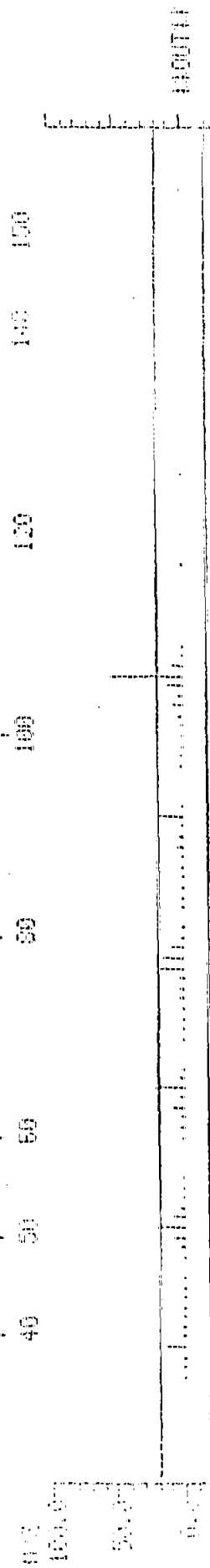
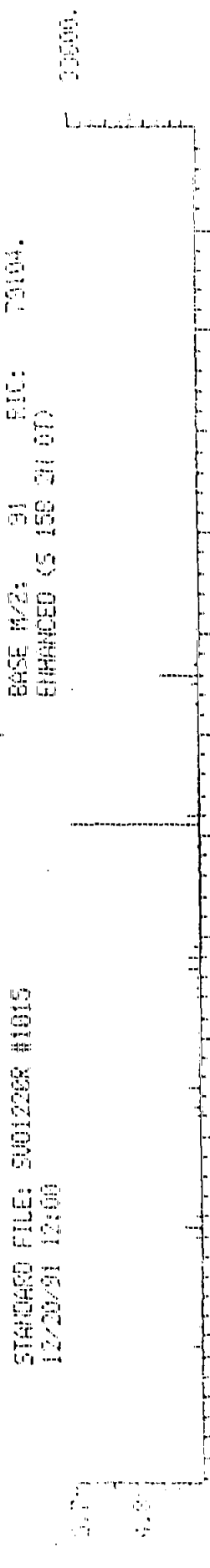
BASE M/Z: 91
RID: 1425410.



BASE M/Z: 91
RID: S49248.



BASE M/Z: 91
RID: 73104.
ENHANCED (S 150 31 87)



AR100711

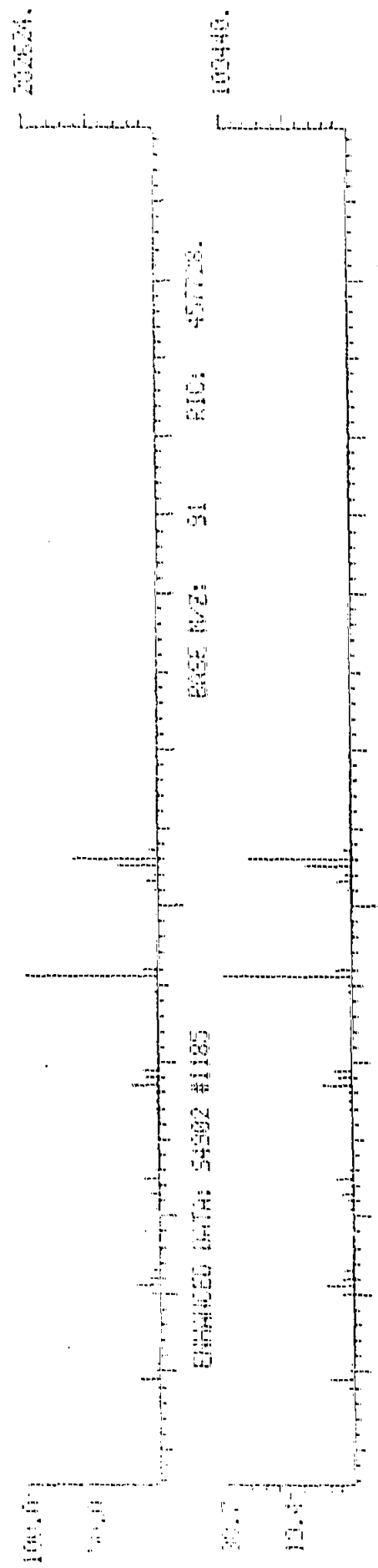
00079

DATA FILE: S4902 #1185
TARGET COMPOUND COMPARISON
COMPOUND: C150 OAP XYLENE

STANDARD FILE: S001220R #1186
CALL: S4902 #3

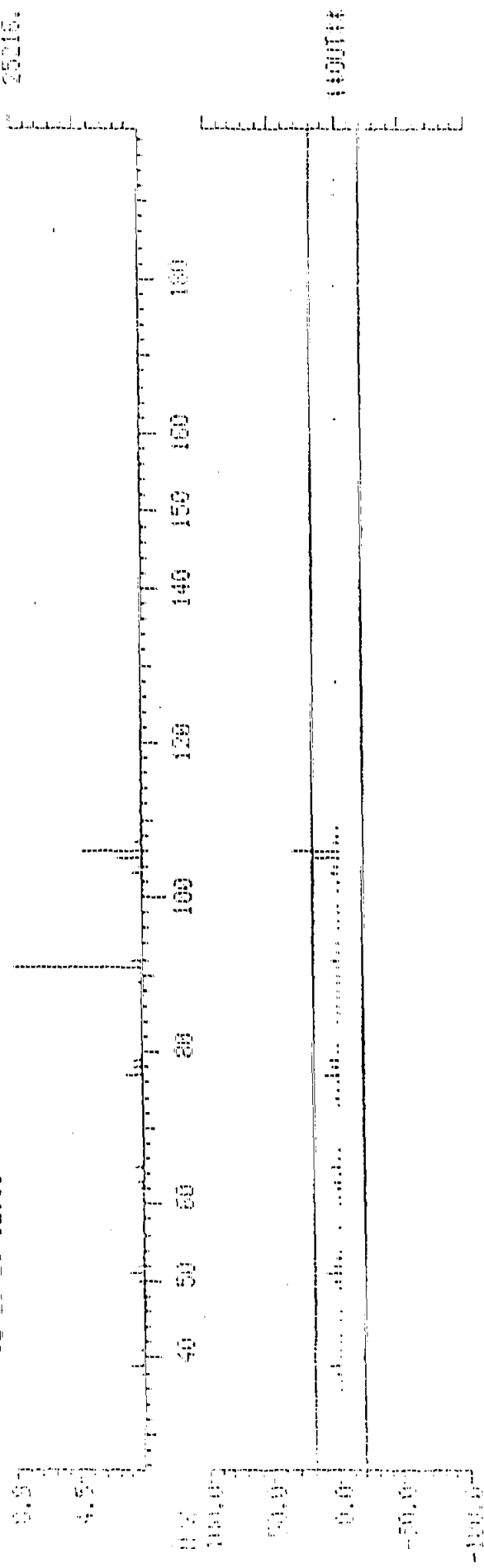
RAW DATA: S4902 #1185
12/20/91 16:36

BASE M/Z: 91 RIC: 1015830.



STANDARD FILE: S001220R #1186
12/20/91 12:00

BASE M/Z: 91 RIC: 600064.
ENHANCED (S 150 201 00)



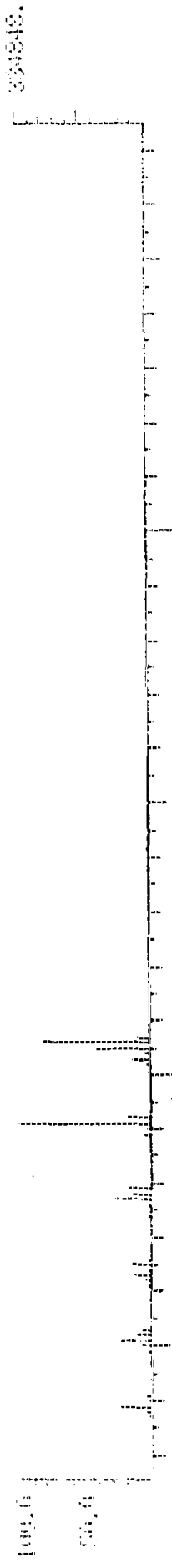
AR100712

DATA FILE: 54902 #1154
TARGET COMPOUND COMPARISON
COMPOUND: 0250 N-XYLENE

STANDARD FILE: S101220R #1155
CALI: 54902 #3

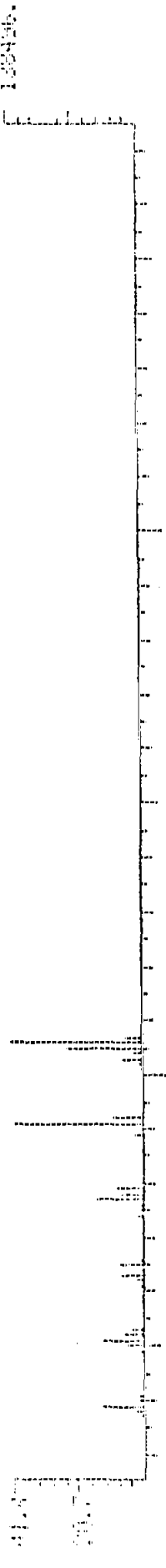
RAW DATA: 54902 #1154
12/20/91 10:35

BASE M/Z: 91 RIG: 1591200.



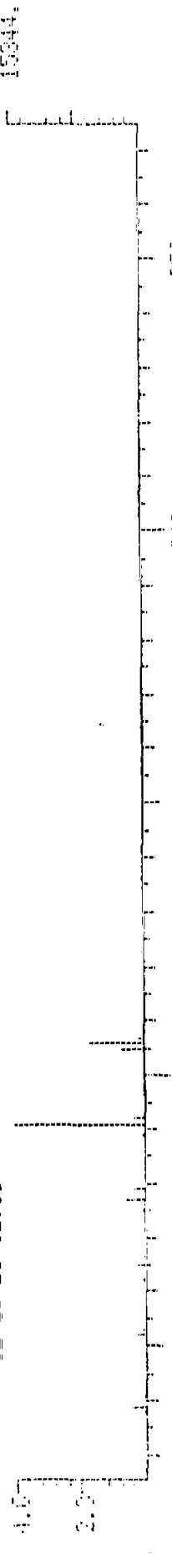
ENHANCED DATA: 54902 #1154

BASE M/Z: 106 RIG: 618175.



STANDARD FILE: S101220R #1155
12/20/91 12:00

BASE M/Z: 91 RIG: 355000.
ENHANCED (S 158 2H 0T)



AR100713

Qualification Report File: 84905

Date: 840507

12 2079 19:02 00 #05 CL

Method: 85807

Sample: GLASS PAGES COLUMN/METHOD SEAVI C 10 18 P1

Conc: 100UL OF 200X /5ML Instrument: F1N1

Submitted by: REBTON

Analyst: CC

Weight: 0.000

File: 061880

AMOUNT/AREA * REF AMT/REF AREA * RESP FACT

Resp. Fac. from Library Entry

No.	Name
1	0101 BROMOCHLOROMETHANE **INT. STD.**
2	0110 1,4-DIFLUOROBENZENE **INT. STD.**
3	0120 CHLOROBENZENE-D5 **INT. STD.**
4	0515 1,2-DICHLOROETHANE-D4 **S. STD.**
5	0505 TOLUENE-D8 **S. STD.**
6	0610 4-BROMOFLUOROBENZENE **S. STD.**
7	0010 CHLOROMETHANE **
8	0015 BROMOMETHANE
9	0020 VINYL CHLORIDE *
10	0025 CHLOROBETHANE
11	0030 METHYLENE CHLORIDE
12	1011 ACROLEIN
13	0035 ACETONE
14	0040 CARBON DISULFIDE
15	0045 1,1-DICHLOROETHENE *
16	0050 1,1-DICHLOROETHANE **
17	0055 TRANS-1,2-DICHLOROETHENE
18	0060 TRICHLOROFLUOROMETHANE
19	0065 CHLOROFORM *
20	0070 1,2-DICHLOROETHANE



24	0080 CARBON TETRACHLORIDE
25	0125 VINYL ACETATE
26	0130 BROMO DICHLOROMETHANE
27	0140 1,2-DICHLOROPROPANE *
28	0145 TRANS-1,2-DICHLOROPROPENE
29	0150 TRICHLOROETHENE
30	0155 DIALLYL SULFIDE
31	0160 1,1-DICHLOROETHANE
32	0165 XANTHENE
33	0170 CIS-1,2-DICHLOROPROPENE
34	0175 2-CHLOROETHYL VINYL ETHER
35	0180 BROMOFORM **
36	0220 TETRACHLOROETHENE
37	0210 2-HEXANONE
38	0205 4-METHYL 2-PENTANONE
39	0225 1,1,1,2-TETRACHLOROETHANE **
40	0230 TOLUENE *
41	0235 CHLOROBENZENE **
42	0240 ETHYL CHLORIDE *
43	0245 ETHANOL
44	0250 METHYL CHLORIDE *
45	0255 1,1-DICHLOROETHANE
46	0260 1,1-DICHLOROETHANE
47	0265 1,1-DICHLOROETHANE
48	0270 1,1-DICHLOROETHANE
49	0275 1,1-DICHLOROETHANE
50	0280 1,1-DICHLOROETHANE
51	0285 1,1-DICHLOROETHANE
52	0290 1,1-DICHLOROETHANE
53	0295 1,1-DICHLOROETHANE
54	0300 1,1-DICHLOROETHANE
55	0305 1,1-DICHLOROETHANE
56	0310 1,1-DICHLOROETHANE
57	0315 1,1-DICHLOROETHANE
58	0320 1,1-DICHLOROETHANE
59	0325 1,1-DICHLOROETHANE
60	0330 1,1-DICHLOROETHANE
61	0335 1,1-DICHLOROETHANE
62	0340 1,1-DICHLOROETHANE
63	0345 1,1-DICHLOROETHANE
64	0350 1,1-DICHLOROETHANE
65	0355 1,1-DICHLOROETHANE
66	0360 1,1-DICHLOROETHANE
67	0365 1,1-DICHLOROETHANE
68	0370 1,1-DICHLOROETHANE
69	0375 1,1-DICHLOROETHANE
70	0380 1,1-DICHLOROETHANE
71	0385 1,1-DICHLOROETHANE
72	0390 1,1-DICHLOROETHANE
73	0395 1,1-DICHLOROETHANE
74	0400 1,1-DICHLOROETHANE
75	0405 1,1-DICHLOROETHANE
76	0410 1,1-DICHLOROETHANE
77	0415 1,1-DICHLOROETHANE
78	0420 1,1-DICHLOROETHANE
79	0425 1,1-DICHLOROETHANE
80	0430 1,1-DICHLOROETHANE
81	0435 1,1-DICHLOROETHANE
82	0440 1,1-DICHLOROETHANE
83	0445 1,1-DICHLOROETHANE
84	0450 1,1-DICHLOROETHANE
85	0455 1,1-DICHLOROETHANE
86	0460 1,1-DICHLOROETHANE
87	0465 1,1-DICHLOROETHANE
88	0470 1,1-DICHLOROETHANE
89	0475 1,1-DICHLOROETHANE
90	0480 1,1-DICHLOROETHANE
91	0485 1,1-DICHLOROETHANE
92	0490 1,1-DICHLOROETHANE
93	0495 1,1-DICHLOROETHANE
94	0500 1,1-DICHLOROETHANE
95	0505 1,1-DICHLOROETHANE
96	0510 1,1-DICHLOROETHANE
97	0515 1,1-DICHLOROETHANE
98	0520 1,1-DICHLOROETHANE
99	0525 1,1-DICHLOROETHANE
100	0530 1,1-DICHLOROETHANE

AR100714

00082

1250 CHE. ELEMENT

NO	Wt	Scan	Time	Ref	RRT	Math	Area (Height)	Amount	XTot
1	49	337	8:28	1	1.000	A BB	114353.	50.000 NG	1.81
2	114	747	12:45	2	1.000	A BB	361966.	50.000 NG	1.81
3	117	937	22:30	3	1.000	A BB	298693.	50.000 NG	1.81
4	65	447	11:11	1	1.326	A BB	101240.	57.127 NG	2.07
5	98	891	22:18	3	0.949	A BB	333215.	52.491 NG	1.91
6	NOT FOUND								
7	50	51	1:17	1	0.151	A BB	2215.	1.207 NG ✓	0.04
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	49	227	5:35	1	0.668	A VB	4731.	3.222 NG ✓	0.12
12	NOT FOUND								
13	42	261	6:52	1	0.774	A BB	10236.	32.812 NG ✓	1.19
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	95	627	19:42	2	0.827	A BB	46176.	17.497 NG ✓	0.52
30	NOT FOUND								
31	NOT FOUND								
32	76	649	15:15	2	0.866	A BB	109594.	31.275 NG ✓	0.77
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	166	143	21:06	3	0.898	A BB	7733460.	2213.271 NG ✓	25.85
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	91	891	22:20	3	0.957	A BB	33742.	5.487 NG FH ✓	0.18
41	NOT FOUND								
42	106	1015	25:24	3	1.081	A BB	6510.	2.427 NG FH ✓	0.12
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	106	1153	29:37	3	1.260	A BB	258522.	45.277 NG ✓	1.67

1094 Matrix Interference cannot integrate

X10, 04

AR100715

00083

SCANS 99 TO 1400

DATA: 54905 #48
CALI: 54905 #3

RIC

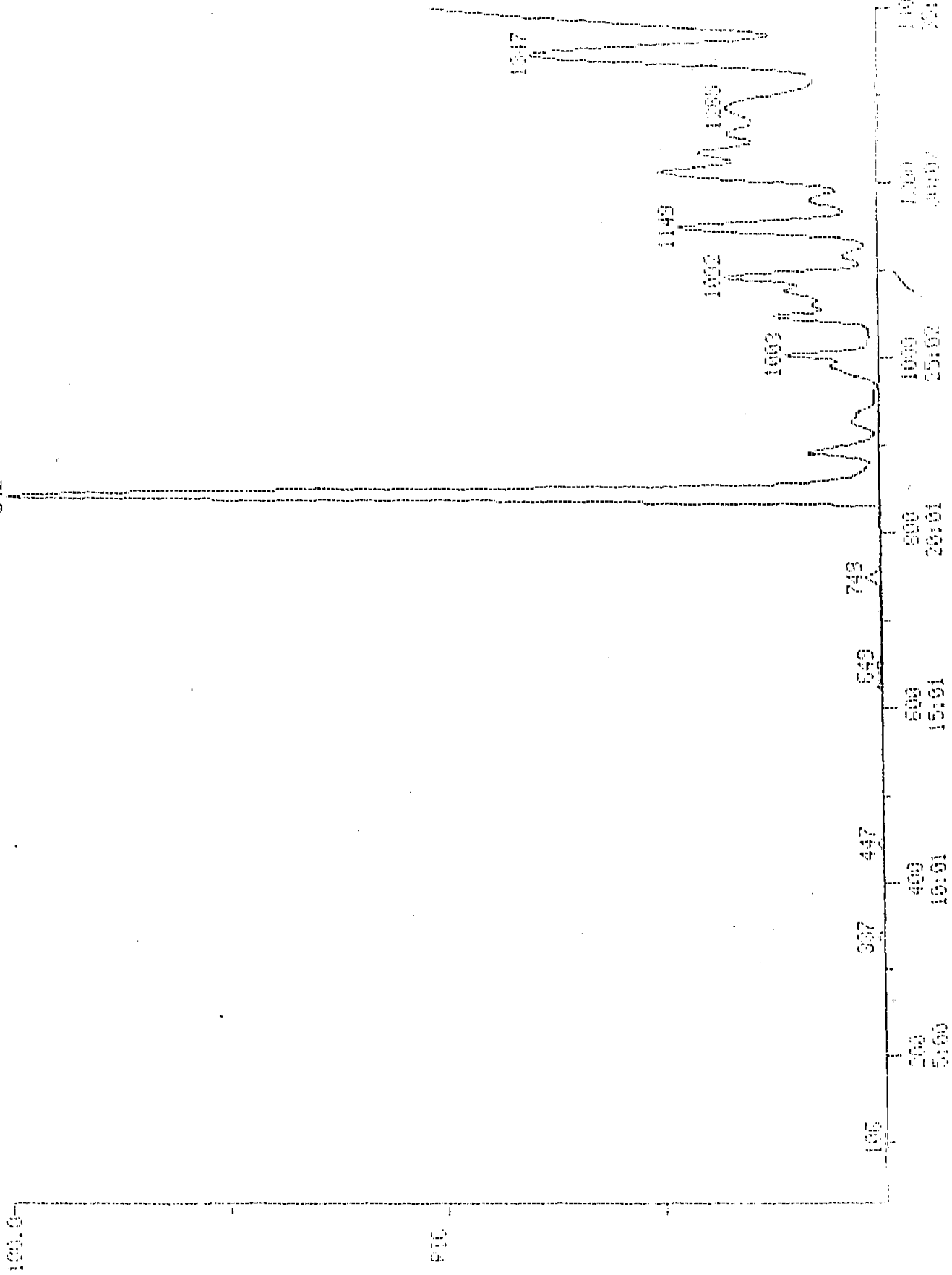
12/20/91 19:02:00

SAMPLE: 8360-2-500

CUMDS.: GLASS PAKED COLUMN/METHOD 524/1.C 16/18/91

FRAGE: G 1/1400 LABEL: N 0, 4.0 CUMH: A 0, 1.0 J 0 BASE: U 20, 3

5488016.



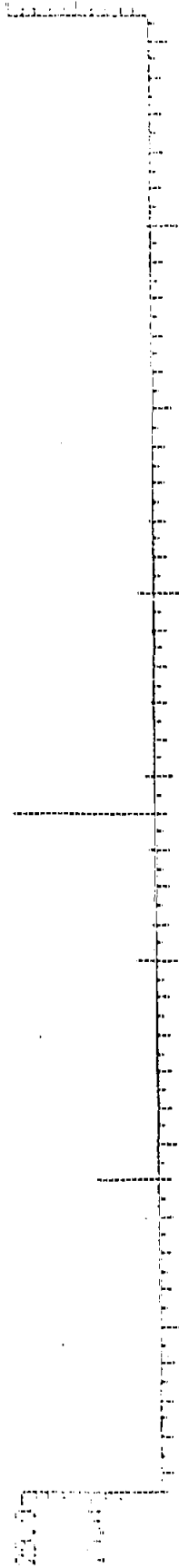
DATA FILE: 54905 #51
TARGET COMPOUND COMPARISON
COMPOUND: C010 CHLOROMETHANE **

STANDARD FILE: S001226R #48
CALL: 54905 #3

RAW DATA: 54905 #51
12/20/91 19:02

BASE M/Z: 44 RIC: 7000.

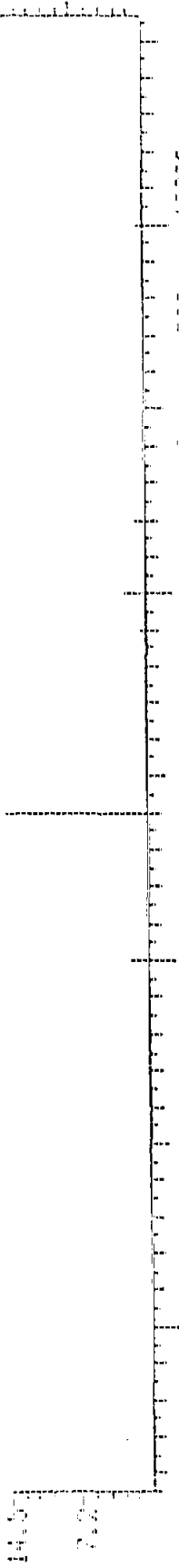
32000.



ENHANCED DATA: 54905 #51

BASE M/Z: 44 RIC: 1000.

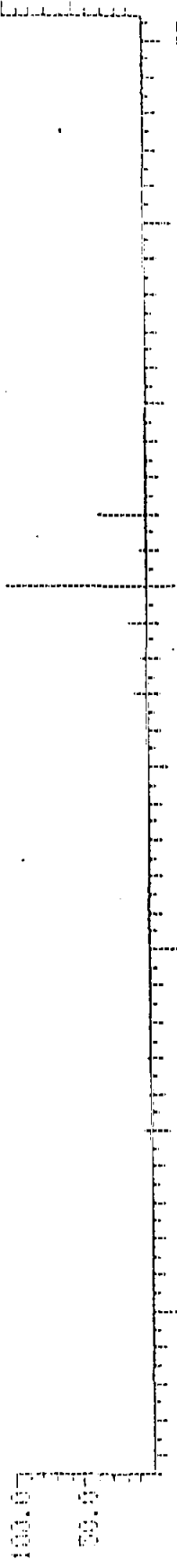
15000.



STANDARD FILE: S001226R #48
12/20/91 19:00

BASE M/Z: 50 RIC: 15000.
ENHANCED (S 158 2H 0F)

11000.



65

60

55

50

45

40

35

30

100.0

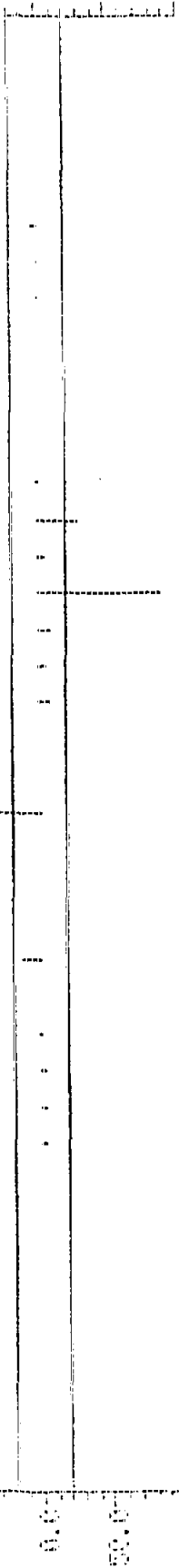
50.0

0.0

-50.0

-100.0

110000.

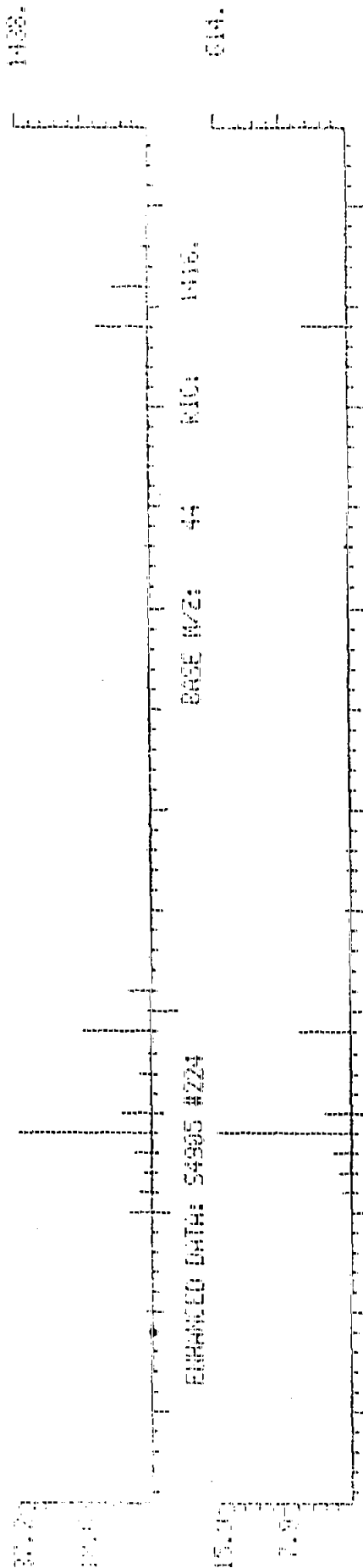


AR100717

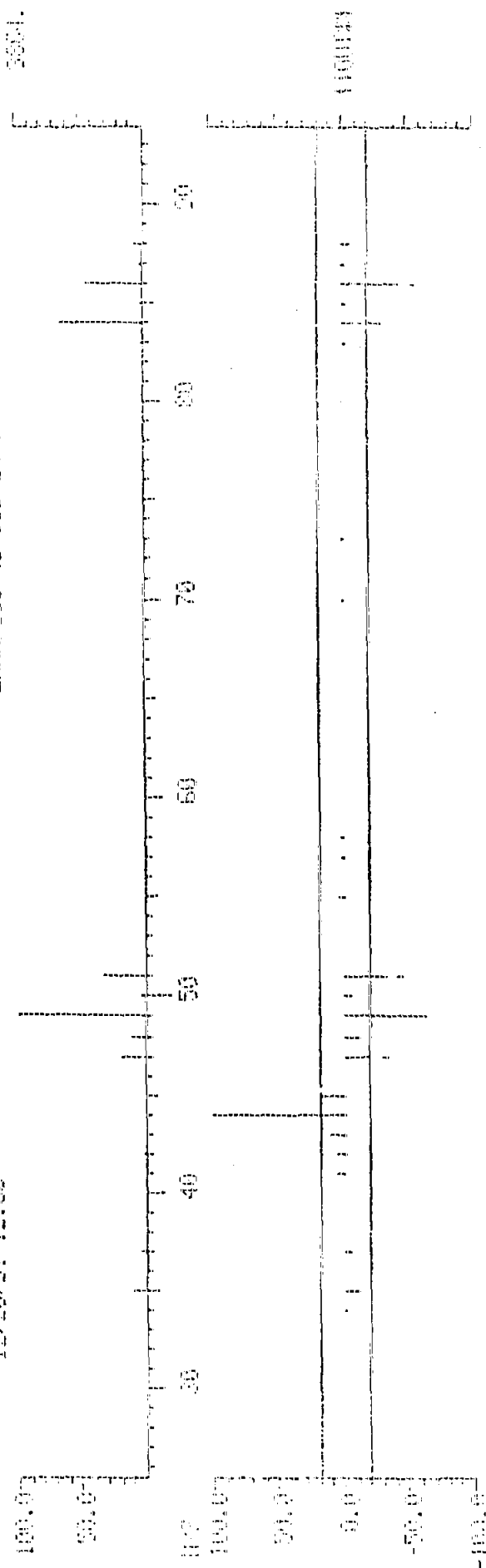
00085

DATA FILE: 54985 #224 STANDARD FILE: SU01220R #217
TARGET COMPOUND COMPARISON CALL: 54985 #3
COMPOUND: C930 METHYLENE CHLORIDE

RUN DATA: 54985 #224 BASE M/Z: 44 RIC: 4855.
12/20/91 13:02



STANDARD FILE: SU01220R #217 BASE M/Z: 43 RIC: 11775.
12/20/91 12:00 ENHANCED (S 158 2N 0T)



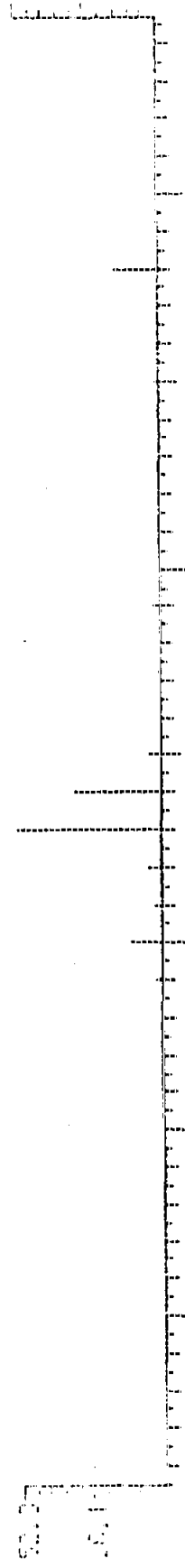
AR100718

DATA FILE: S4905 #251
TARGET COMPOUND COMPARISON
COMPOUND: 0035 ACETONE

RAW DATA: S4905 #251
12/20/91 19:00

BASE N/Z: 43 RIG: 0432.

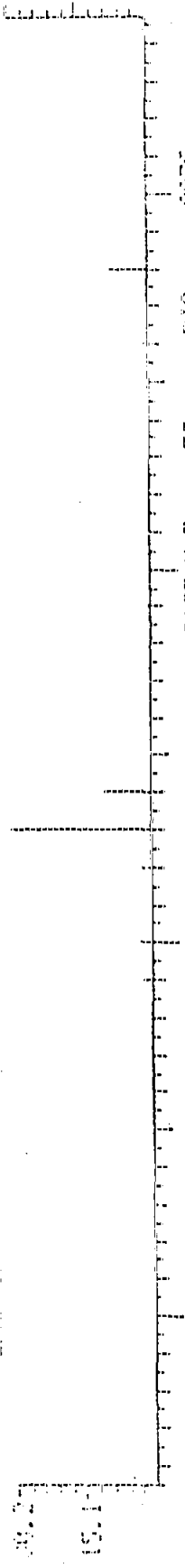
1370.



ENHANCED DATA: S4905 #251

BASE N/Z: 43 RIG: 1500.

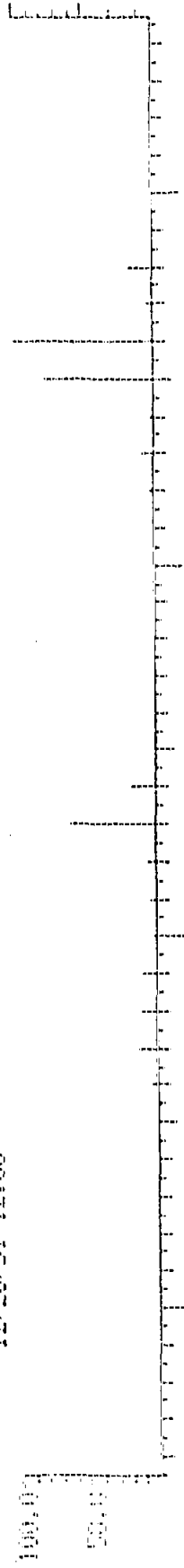
792.



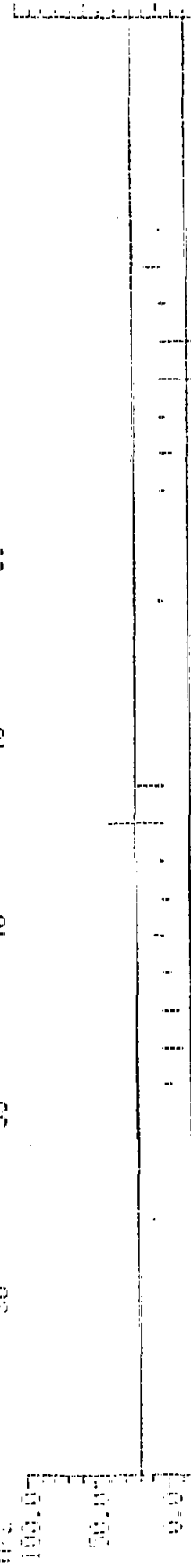
STANDARD FILE: S001220R #250
12/20/91 12:00

BASE N/Z: 55 RIG: 9070.
ENHANCED (S 150 2H 0T)

2520.



11000H



AR100719

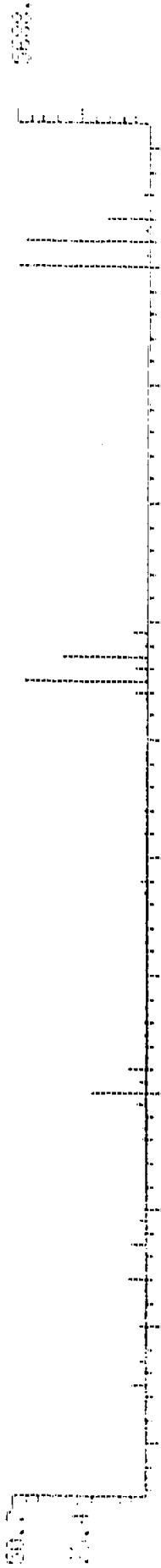
00087

DATA FILE: 54905 #627
TARGET COMPOUND COMPARISON
COMPOUND: C150 TRICHLOROETHENE

STANDARD FILE: SVD1220R #625
CALI: 54905 #8

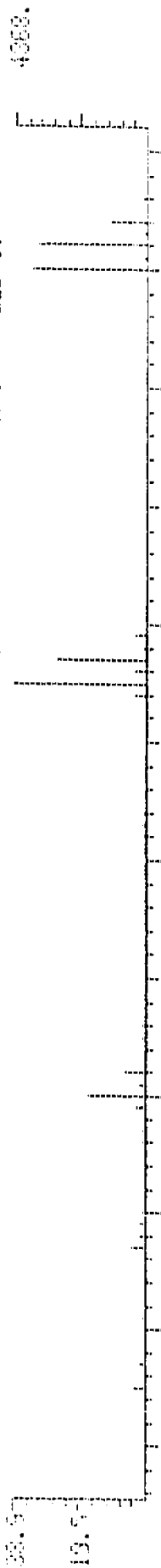
RUN DATE: 54905 #627
12/20/91 13:02

BASE M/Z: 130 RIC: 31904.



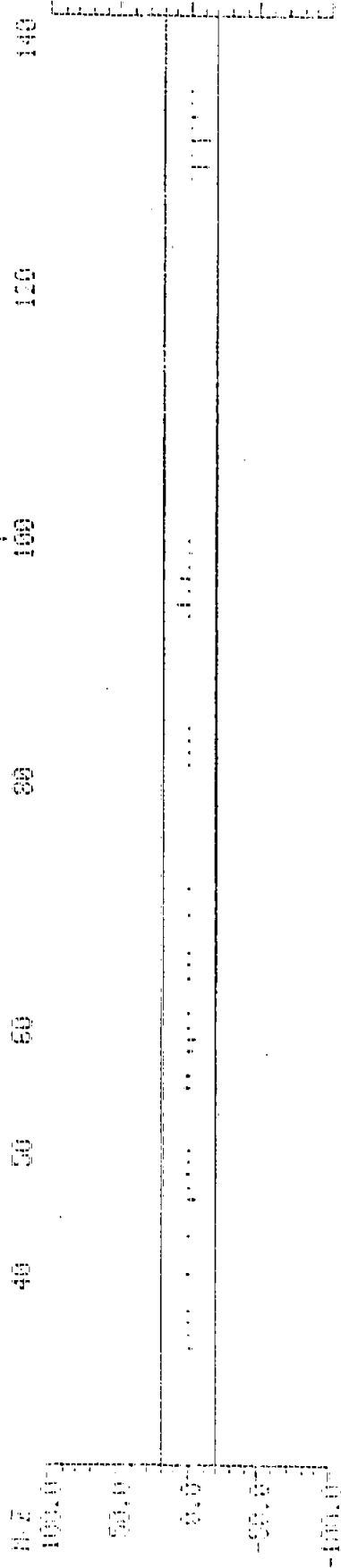
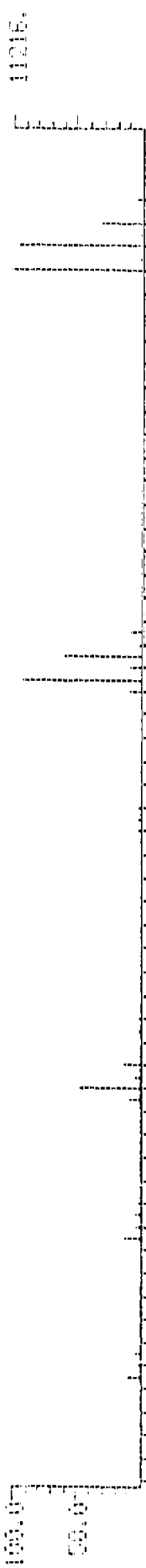
ENHANCED DATA: 54905 #627

BASE M/Z: 95 RIC: 22816.



STANDARD FILE: SVD1220R #625
12/20/91 12:00

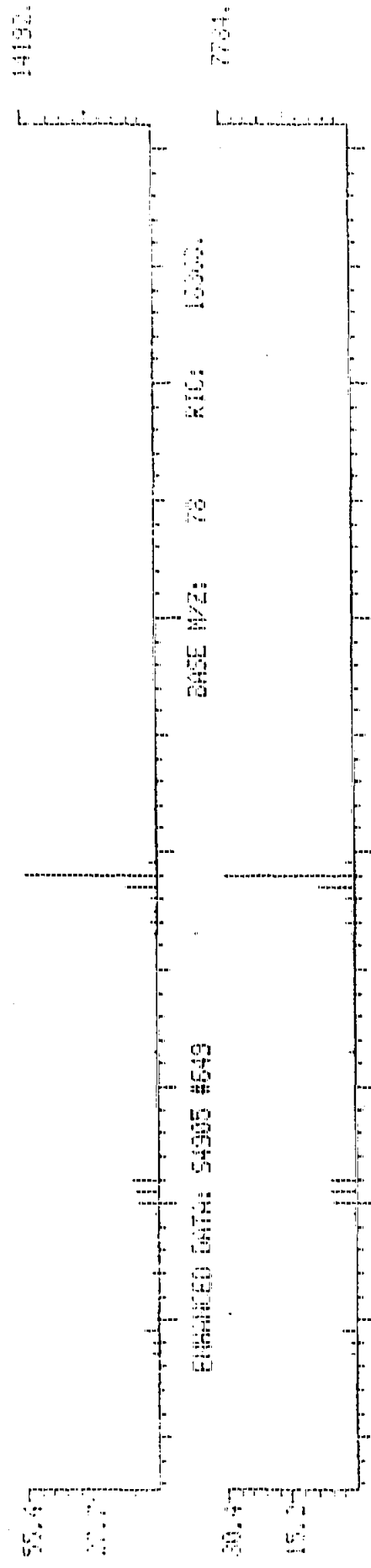
BASE M/Z: 130 RIC: 60992.
ENHANCED (S 150 2N 0T)



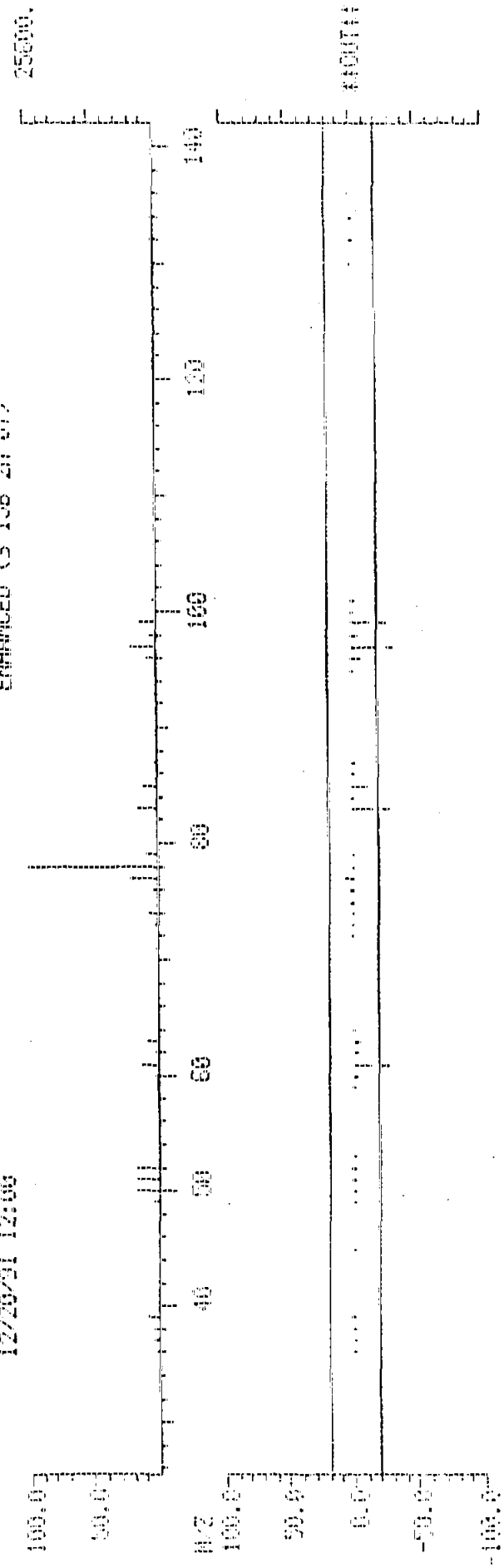


DATA FILE: 54905 #649 STANDARD FILE: SVD1228R #648
TARGET COMPOUND COMPARISON
COMPOUND: C165 BENZENE

RAW DATA: 54905 #649 BASE W/Z: 78 RIC: 33172
12/20/91 13:02



STANDARD FILE: SVD1228R #648
12/20/91 12:06

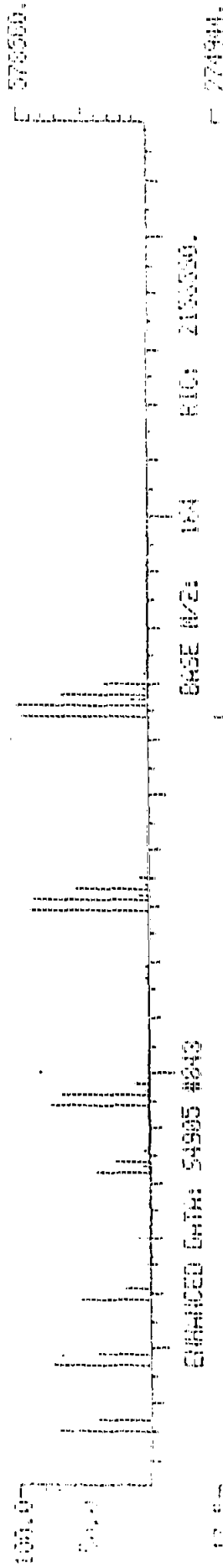


AR100721

00089

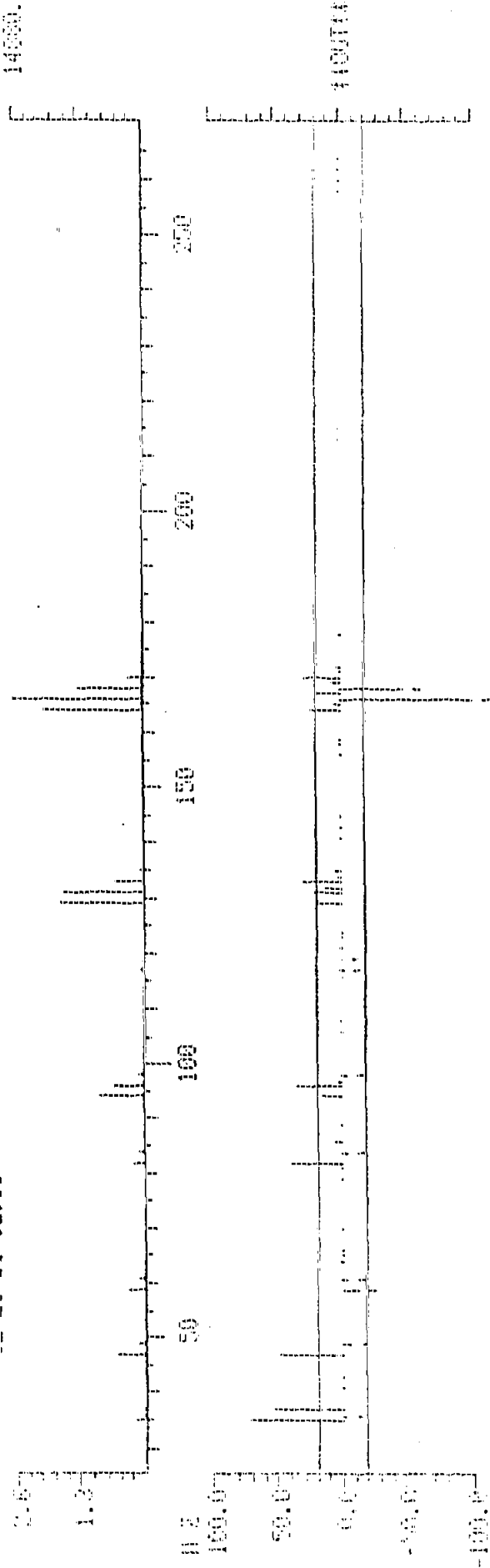
DATA FILE: 54905 #843
STANDARD FILE: SV01220R #84E
TARGET COMPOUND COMPARISON
CALI: 54905 #3
COMPOUND: C220 TETRACHLOROETHENE

RAW DATA: 54905 #843
12/20/01 19:02
BASE M/Z: 166
RIC: 64225300.



STANDARD FILE: SV01220R #84E
12/20/01 12:00

BASE M/Z: 166
RIC: 79464.
ENHANCED (S 158 2H 9T)



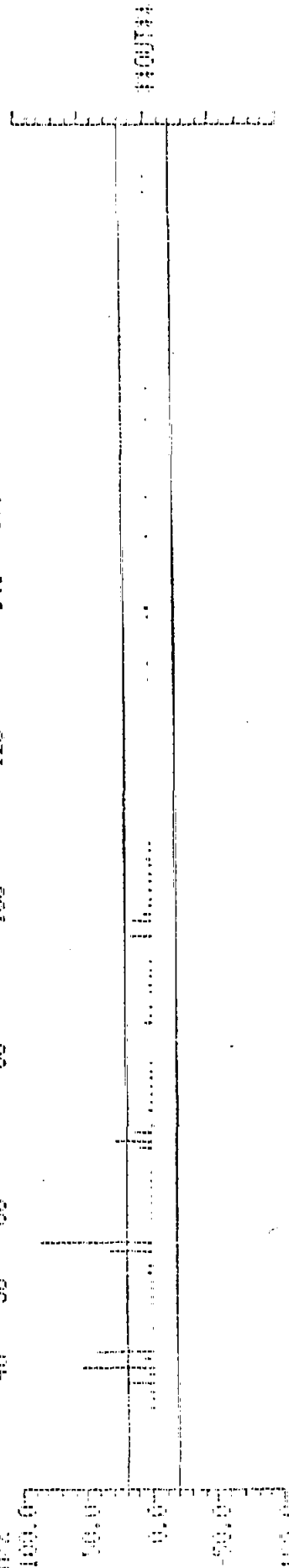
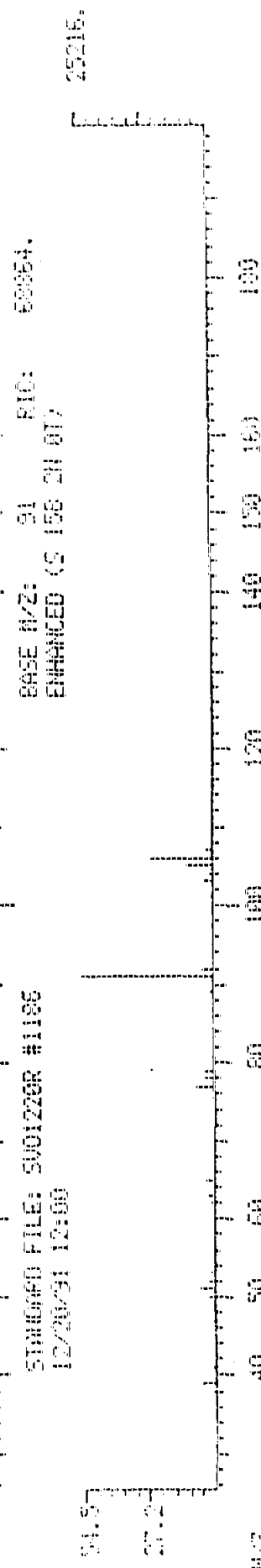
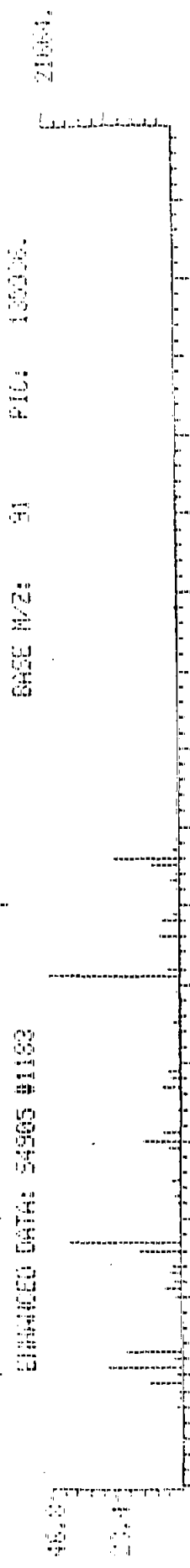
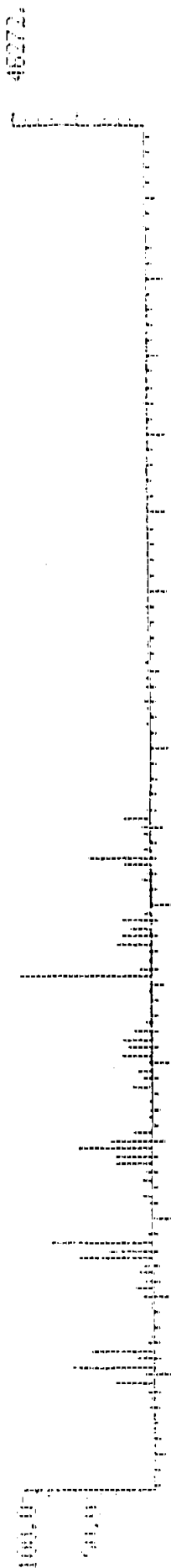
AR100722

DATA FILE: S4905 #1183
TARGET COMPOUND COMPARISON
COMPOUND: C250 OXP XYLENE

STANDARD FILE: SVO1220R #1186
CALI: S4905 #3

RAW DATA: S4905 #1183
12/20/91 19:02

BASE M/Z: 91 RIC: 474524.



AR100723

00091

P R I N C E T O N T E S T I N G L A B O R A T O R Y

Weston TAT
 5 Underwood Court
 Delran, New Jersey 08075

Job Number: 9108360-002GMWH
 Report Date: 12/16/91

BULK ASBESTOS ANALYSIS REPORT - METHOD: EPA-600/M4-82-020

SAMPLE IDENTIFICATION:	001 A07	
ANALYTICAL METHOD:	<i>Polarized Light Microscopy With Dispersion Staining</i>	
GROSS SAMPLE APPEARANCE:	<i>Homogeneous Fibrous Gray</i>	
SAMPLE TREATMENT:	<i>Homogenized</i>	
ASBESTOS FIBERS PRESENT?:	Yes	
ASBESTOS CONCENTRATION:		
AMOSITE	45%	
CHRYSOTILE	0%	
CROCIDOLITE	0%	
OTHER	0%	
TOTAL	===== 45%	
OTHER FIBROUS MATERIAL:		
FIBROUS GLASS		
CELLULOSE		
OTHER		
NONFIBROUS MATERIAL PRESENT:	<i>Silicates Binders Others</i>	
ANALYST:	<i>Susan Sharples</i>	

AR100724

00097