ORGANIC DATA COMMENT PAGE

Laboratory Name RECRA ENVIRONMENTAL, INC.

USEPA Defined Organic Data Qualifiers:

U - Indicates compound was analyzed for but not detected.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS.

B - This flag is used when the analyte is found in the associated blank as well as in the sample.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor.

T - This flag is used when the analyte is found in the associated TCLP extraction as well as in the sample.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the Form I and flagged with a "P".

A - This flag indicates that a TIC is a suspected aldol-condensation product.

MW
1D
AMD
95

12/14/93 D EARCOP
WELL SAMPLING

RECRA ENVIRONMENTAL INC.

CASE NARRATIVE

Laboratory Name: Recra Environmental, Inc.

Laboratory Code: RECNY

Case Number: RB093

SDG Number: 1214

Contract Number: COO2412

Sample Identification:

RB093 1214 184801
RB093 1214 184802
RB093 1214 184802 MATRIX SPIKE
RB093 1214 184802 MATRIX SPIKE DUPLICATE
RB093 1214 184803
MATRIX SPIKE BLANK
TRIP BLANK
VHB

METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services Protocol.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic Data comment Page.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data are processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. Unedited quantitations have been submitted with this analytical data package.

Sample RB093 1214 184801 required a dilution of two due to a high concentration of 1,2-Dichloroethene. Sample RB093 1214 184802 was analyzed at a dilution of twenty due to the high concentration of the following compounds: Vinyl Chloride, 1,1-Dichloroethane, 1,2-Dichloroethene (total), and Trichloroethene.

The recovery of surrogate compound 1,2-Dichloroethane-d4 was elevated above the quality control limits in RB093 1214 184802, and it's matrix spike and matrix spike duplicate indicating sample matrix effects. The recovery of this surrogate was compliant in the diluted sample.

Spiking compound Trichloroethene exhibited a non-compliant percent recovery and percent RPD in sample RB093 1214 184802 Matrix Spike Duplicate. The amount of spike added was small in relation to the concentration of this compound in the sample and therefore probably affected the spike recovery.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Robert K. Wyeth

Robert K. Wyeth
Laboratory Director

12/28/93
Date

RECRA
ENVIRONMENTAL
INC.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE IDENTIFICATION
AND
ANALYTICAL REQUEST SUMMARY

LAB NAME RECRA ENVIRONMENTAL, INC.

CUSTOMER SAMPLE CODE	LABORATORY SAMPLE CODE	ANALYTICAL REQUIREMENTS					
		VOA GC/MS	BNA GC/MS	VOA GC	PEST/ PCB	METALS	OTHER
RB093 1214 184801	93-4488	ASP91	-	-	-	-	-
RB093 1214 184802	93-4488	ASP91	-	-	-	-	-
RB093 1214 184803	93-4488	ASP91	-	-	-	-	-
TRIP BLANK	93-4488	ASP91	-	-	-	-	-

(1ST sample) MW-9S

MW-9S

MW-[illegible]D

I.D. #A3-4488.1

NYSDEC-1

RECRA ENVIRONMENTAL INC.

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
VOLATILE ANALYSIS

LAB NAME RECRA ENVIRONMENTAL INC.

SAMPLE IDENTIFICATION	MATRIX	DATE COLLECTED	DATE RECEIVED AT LAB	DATE EXTRACTED	DATE ANALYZED
RB093 1214 184801	WATER	12/14/93	12/15/93	-	12/18/93
RB093 1214 184802	WATER	12/14/93	12/15/93	-	12/18/93
RB093 1214 184803	WATER	12/14/93	12/15/93	-	12/18/93
TRIP BLANK	WATER	12/10/93	12/15/93	-	12/18/93

I.D. #A3-4488.2

NYSDEC-2

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SAMPLE PREPARATION AND ANALYSIS SUMMARY
ORGANIC ANALYSIS

LAB NAME RECRA ENVIRONMENTAL INC.

SAMPLE IDENTIFICATION	MATRIX	ANALYTICAL PROTOCOL	EXTRACTION METHOD	AUXILARY CLEAN UP	DIL/CONC FACTOR
RB093 1214 184801	WATER	ASP91	-	-	AS REQUIRED
RB093 1214 184802	WATER	ASP91	-	-	AS REQUIRED
RB093 1214 184802	WATER	ASP91	-	-	AS REQUIRED
TRIP BLANK	WATER	ASP91	-	-	AS REQUIRED

I.D. #A3-4488.6

NYSDEC-6

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

184801
MW-9S (1ST Boiler)

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053077

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8712

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. ____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	44	
75-00-3	Chloroethane	3	J
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	2	J
75-34-3	1,1-Dichloroethane	54	
540-59-0	1,2-Dichloroethene (total)	360	E
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	54	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

EPA SAMPLE NO.

184801

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053077

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8712

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
184801DL

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053077DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8727

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. ____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	34	D
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	20	U
67-64-1	Acetone	20	U
75-15-0	Carbon Disulfide	20	U
75-35-4	1,1-Dichloroethene	1	DJ
75-34-3	1,1-Dichloroethane	49	D
540-59-0	1,2-Dichloroethene (total)	340	D
67-66-3	Chloroform	20	U
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon Tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-dichloropropene	20	U
79-01-6	Trichloroethene	52	D
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans-1,3-dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U
1330-20-7	Total Xylenes	20	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

184801DL

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053077DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8727

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. ____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
184802

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053078

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8713

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	570	E
75-00-3	Chloroethane	43	
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	23	
75-34-3	1,1-Dichloroethane	640	E
540-59-0	1,2-Dichloroethene (total)	2000	E
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	18	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	260	E
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	2	BJ
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.6	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	0.3	J
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

184802
MW-9S (After 3 volumes)

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053078

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8713

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
184802DL

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053078DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8728

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 20.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	200	U
74-83-9	Bromomethane	200	U
75-01-4	Vinyl Chloride	510	D
75-00-3	Chloroethane	200	U
75-09-2	Methylene Chloride	200	U
67-64-1	Acetone	200	U
75-15-0	Carbon Disulfide	200	U
75-35-4	1,1-Dichloroethene	12	DJ
75-34-3	1,1-Dichloroethane	730	D
540-59-0	1,2-Dichloroethene (total)	2900	D
67-66-3	Chloroform	200	U
107-06-2	1,2-Dichloroethane	200	U
78-93-3	2-Butanone	200	U
71-55-6	1,1,1-Trichloroethane	200	U
56-23-5	Carbon Tetrachloride	200	U
75-27-4	Bromodichloromethane	200	U
78-87-5	1,2-Dichloropropane	200	U
10061-01-5	cis-1,3-dichloropropene	200	U
79-01-6	Trichloroethene	320	D
124-48-1	Dibromochloromethane	200	U
79-00-5	1,1,2-Trichloroethane	200	U
71-43-2	Benzene	200	U
10061-02-6	trans-1,3-dichloropropene	200	U
75-25-2	Bromoform	200	U
108-10-1	4-Methyl-2-Pentanone	200	U
591-78-6	2-Hexanone	200	U
127-18-4	Tetrachloroethene	200	U
79-34-5	1,1,2,2-Tetrachloroethane	200	U
108-88-3	Toluene	200	U
108-90-7	Chlorobenzene	200	U
100-41-4	Ethylbenzene	200	U
100-42-5	Styrene	200	U
1330-20-7	Total Xylenes	200	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

184802DL

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053078DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8728

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 20.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

184803 MW-1D

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053079

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8711

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	15	
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	60	
540-59-0	1,2-Dichloroethene (total)	15	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	6	J
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	3	BJ
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	4	J

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

184803

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053079

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8711

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. ____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.73	24	J
2.	75-28-5	ISOBUTANE	4.20	21	JN
3.		SATURATED HYDROCARBON	5.90	11	J
4.		UNKNOWN	10.07	8	J

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TBLANK

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053082

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8709

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

TBLANK

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053082

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8709

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

RECRA ENVIRONMENTAL INC.

Chemical and Environmental Analysis Services

World University Games Buffalo '93
GRAND PATRON
HELPING TO BRING THE WORLD TO BUFFALO

December 28, 1993

Mr. John Ryan
New York State Department
of Environmental Conservation
50 Wolf Road, Room 301
Albany, NY 12233-3502

RE: Analytical Results

Dear Mr. Ryan:

Please find enclosed results concerning the analyses of the samples recently submitted by your agency. The Pertinent Information regarding these analyses is listed below:

Contract #:	COO2412
Case #:	RB093
SDG #:	1214
Matrix:	Aqueous
Samples Received:	12/15/93
Sample Date:	12/10,14/93

If you have any questions concerning these data, please contact Ms. Ann Marie Kropovitch, Program Manager at (716) 691-2600 and refer to the I.D. number listed below. It has been our pleasure to provide New York State Department of Environmental Conservation with Environmental Testing Services. We look forward to serving you in the future.

Sincerely,

RECRA ENVIRONMENTAL, INC.

Ann Marie Kropovitch
Program Manager

Robert K. Wyeth
Laboratory Director

AMK/RKW/rco
Enclosure-Diskette
cc: Region #0

I.D.#93-4488
#NY1A3173

ORGANICS COMPLETE SDG FILE (CSF) INVENTORY SHEET

LABORATORY NAME Recra Environmental CITY/STATE Amherst, NY

CASE NO. RB093 SDG NO. 1214 SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. _____

CONTRACT NO. C0026412 SOW NO. _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
• Inventory Sheet (Form DC-2)(Do not number)				
• SDG Case Narrative	3	4		
• Traffic Report	35	38		
• Volatiles Data	40	320		
a. QC Summary	40	52		
Surrogate Percent Recovery Summary (Form II VOA)	41	41		
Lab Control Sample Recovery (Form III VOA)	42	43		
Method Blank Summary (Form IV VOA)	44	45		
Tuning and Mass Calibration (Form V VOA)	46	48		
b. Sample Data	53	227		
TCL Results - (Form I VOA)	↓	↓		
Tentatively Identified Compounds (Form I VOA-TIC)	↓	↓		
Reconstructed total ion chromatograms (RIC) for each sample	↓	↓		
Form each sample:	↓	↓		
Raw spectra and background subtracted	↓	↓		
mass spectra of target compounds identified	↓	↓		
Mass spectra of all reported TIC's with three best library matches.	↓	↓		
c. Standards Data (All Instruments)	228	266		
Initial Calibration Data (Form VI VOA)	↓	↓		
RIC's and Quan Reports for all Standards	↓	↓		
Continuing Calibration (Form VII VOA)	↓	↓		
RIC's and Quan Reports for all Standards	↓	↓		
d. QC Data	267	320		
BFB	268	276		
Blank Data	277	305		
Matrix Spike Data	306	320		
Matrix Spike Duplicate Data	↓	↓		
Semivolatiles Data				
a. Surrogate Percent Recovery Summary (Form II SV)				
MS/MSD Summary (Form III SV)				
Method Blank Summary (Form IV SV)				
Tuning and Mass Calibration (Form V SV)				

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

CASE NO. RB093 SDG NO. 1214 SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
6. Pesticides (cont.)				
d. QC Data				
BFB				
Blank Data				
Matrix Spike Data				
Matrix Spike Duplicate Data				
7. Miscellaneous Data				
Original preparation and analysis forms or copies of preparation and analysis logbook pages	335	338		
	NA			
Internal sample and sample extract transfer chain-of-custody records	NA			
Screening records	NA			
All instrument output, including strip charts from screening activities (describe or list)	339	409		
8. A Shipping/Receiving Documents				
Airbills (No. of shipments 1)	324	324		
Chain-of-Custody Records	322	323		
Sample Tags	NA			
Sample Log-In Sheet (Lab & DCl)	328	330		
SDG Cover Sheet	331	331		
Miscellaneous Shipping/Receiving Records (describe or list)				
CONTRACT LAB SAMPLE INFORMATION SHEET	325	327		
9. Internal Lab Sample Transfer Records and Tracking Sheets (describe or list)				
ASRF	333	334		

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

CASE NO. RB093 SDG NO. 1214 SDG NOS. TO FOLLOW _____ _____ _____ SAS NO. _____

	PAGE NOs FROM	TO	CHECK LAB	EPA
Other Records (describe or list)				
Telephone Communication Log				

Comments: _____

Completed by: [signature] Ann Marie Krobovitch 12/28/93
(CLP Lab) (Signature) (Printed Name/Title) (Date)
PROGRAM MANAGER

Completed _____ _____ _____
(EPA) (Signature) (Printed Name/Title) (Date)

SAMPLE DATA SUMMARY PACKAGE

RECRA
ENVIRONMENTAL
INC.

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

	EPA SAMPLE NO.	SMC1 (TOL) #	SMC2 (BFB) #	SMC3 (DCE) #	OTHER	TOT OUT
01	184801	96	103	114	0	0
02	184801DL	100	103	103	0	0
03	184802	95	102	117 *	0	1
04	184802DL	98	103	105	0	0
05	184803	96	101	110	0	0
06	MSBLANK	98	100	100	0	0
07	TBLANK	97	101	106	0	0
08	184802MS	96	103	119 *	0	1
09	184802MSD	96	103	118 *	0	1
10	VBLK22	97	98	103	0	0
11	VBLK23	101	104	101	0	0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3X
WATER VOLATILE MATRIX SPIKE RECOVERY

Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix Spike - Sample No.: MSBLANK

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	49.8	100	61-145
Trichloroethene	50.0	0	46.4	93	71-120
Benzene	50.0	1.50	49.9	97	76-127
Toluene	50.0	0	48.9	98	76-125
Chlorobenzene	50.0	1.54	47.2	91	75-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: VBLK 22
I50K

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix Spike - EPA Sample No.: 184802

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	22.82	85.72	126	61-145
Trichloroethene	50.00	265.0	308.0	86	71-120
Benzene	50.00	1.547	50.14	97	76-127
Toluene	50.00	0.6458	49.56	98	76-125
Chlorobenzene	50.00	0	46.76	94	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	81.54	117	7	14	61-145
Trichloroethene	50.00	297.2	64 *	29 *	14	71-120
Benzene	50.00	49.44	96	1	11	76-127
Toluene	50.00	49.84	98	0	13	76-125
Chlorobenzene	50.00	47.20	94	0	13	75-130

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS: AS053078 JOB4488
I50K

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK22

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID: K8698 Lab Sample ID: AM003825

Date Analyzed: 12/17/93 Time Analyzed: 2037

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

Instrument ID: I50K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	184801	AS053077	K8712	0421
02	184802	AS053078	K8713	0454
03	184803	AS053079	K8711	0348
04	MSBLANK	AS053081	K8697	2010
05	TBLANK	AS053082	K8709	0241
06	184802MS	AS053078MS	K8714	0527
07	184802MSD	AS053078SD	K8715	0601

COMMENTS: VBLK 22
I50K

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK22

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AM003825

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8698

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/17/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	2	J
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	0.5	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK22

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AM003825

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8698

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/17/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK23

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID: K8726 Lab Sample ID: AM003826

Date Analyzed: 12/18/93 Time Analyzed: 1427

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

Instrument ID: I50K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	184801DL	AS053077DL	K8727	1500
02	184802DL	AS053078DL	K8728	1534

COMMENTS: VBLK23
I50K

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK23

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AM003826

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8726

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.3	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK23

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AM003826

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8726

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. ____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID (Standard): K8696 Date Analyzed: 12/17/93

Instrument ID: I50K Time Analyzed: 1929

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	42795	12.87	164542	14.82	144592	19.62
	UPPER LIMIT	85590	13.37	329084	15.32	289184	20.12
	LOWER LIMIT	21398	12.37	82271	14.32	72296	19.12
	EPA SAMPLE NO.						
01	184801	34288	12.89	138160	14.84	125513	19.62
02	184802	32309	12.89	132221	14.85	123561	19.65
03	184803	36175	12.89	142364	14.84	129985	19.64
04	MSBLANK	43349	12.89	165350	14.84	145855	19.62
05	TBLANK	38804	12.90	149345	14.85	134315	19.65
06	184802MS	32096	12.90	133544	14.85	124334	19.67
07	184802MSD	32541	12.90	136132	14.85	124184	19.65
08	VBLK22	41707	12.89	161428	14.82	145811	19.62

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID (Standard): K8724 Date Analyzed: 12/18/93

Instrument ID: I50K Time Analyzed: 1317

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #	RT #	IS2 (DFB) AREA #	RT #	IS3 (CBZ) AREA #	RT #
	12 HOUR STD	39498	12.92	150529	14.87	139230	19.67
	UPPER LIMIT	78996	13.42	301058	15.37	278460	20.17
	LOWER LIMIT	19749	12.42	75264	14.37	69615	19.17
	EPA SAMPLE NO.						
01	184801DL	37090	12.90	142412	14.85	130394	19.69
02	184802DL	36486	12.90	142513	14.85	129779	19.67
03	VBLK23	39190	12.94	147799	14.89	132948	19.70

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

SAMPLE DATA PACKAGE

RECRA
ENVIRONMENTAL
INC.

CASE NARRATIVE

Laboratory Name: Recra Environmental, Inc.

Laboratory Code: RECNY

Case Number: RB093

SDG Number: 1214

Contract Number: COO2412

Sample Identification:

RB093 1214 184801
RB093 1214 184802
RB093 1214 184802 MATRIX SPIKE
RB093 1214 184802 MATRIX SPIKE DUPLICATE
RB093 1214 184803
MATRIX SPIKE BLANK
TRIP BLANK
VHB

METHODOLOGY

Analyses were performed in accordance with 1991 New York State Analytical Services Protocol.

COMMENTS

Comments pertain to data on one or all pages of this report.

The enclosed data has been reported utilizing data qualifiers (Q) as defined on the Organic Data comment Page.

VOLATILE DATA

Volatile sample and standard areas are listed on the corresponding data system printouts.

Volatile data are processed utilizing Finnigan Autoquantitation and QA Formaster software. All compounds determined to be present by the computer-generated autoquantitation were subjected to a manual ion search for secondary and tertiary ions. Unedited quantitations have been submitted with this analytical data package.

Sample RB093 1214 184801 required a dilution of two due to a high concentration of 1,2-Dichloroethene. Sample RB093 1214 184802 was analyzed at a dilution of twenty due to the high concentration of the following compounds: Vinyl Chloride, 1,1-Dichloroethane, 1,2-Dichloroethene (total), and Trichloroethene.

The recovery of surrogate compound 1,2-Dichloroethane-d4 was elevated above the quality control limits in RB093 1214 184802, and it's matrix spike and matrix spike duplicate indicating sample matrix effects. The recovery of this surrogate was compliant in the diluted sample.

Spiking compound Trichloroethene exhibited a non-compliant percent recovery and percent RPD in sample RB093 1214 184802 Matrix Spike Duplicate. The amount of spike added was small in relation to the concentration of this compound in the sample and therefore probably affected the spike recovery.

"I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in the computer-readable data submitted on floppy diskette has been authorized by the Laboratory Manager or his designee, as verified by the following signature."

Robert K. Wyeth

Robert K. Wyeth
Laboratory Director

12/28/93
Date

CHAIN OF CUSTODY DOCUMENTATION

RECRA
ENVIRONMENTAL
INC.

* PLEASE UTILIZE QUICK TURN-A-ROUND TIME FOR ANALYSIS IF POSSIBLE! Dave Ali

RECRA ENVIRONMENTAL, INC.

CHAIN OF CUSTODY RECORD

PROJECT NO: 8280160 | SITE NAME: DEARCOP FARM

SAMPLERS (SIGNATURE): (David J. Chiusano)

STATION NO	DATE	TIME	COMP	GRAB	STATION LOCATION	NO OF CONTAINERS	VOC	REMARKS
1848-01	12/14/93	11:25		X	MW 9S (from initial bailer)	2	2	* Vinyl Chloride (expected) PRESENT
1848-02	12/14/93	11:45		X	MW9S (After removing three well volumes)	6	6	* MS/MSD collected (vinyl chloride expected)
1848-03	12/14/93			X	MW-1D	2	2	

* Also Received 2 extra VOA vials for TRIP Blank 12/16/93

RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
	12/14/93 14:15				
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)	RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED BY (SIGNATURE)
RELINQUISHED BY (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE/TIME	REMARKS	
		Donald A Breau	12/15/93 1015	15 CD	

Distribution: Original accompanies shipment copy to coordinator field files

0033

74-15-1 (5/90)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

0936

Part 3

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—USEPA 624 (GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphrous
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles USEPA 524.2 (GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC-MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC-MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC-MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—Water
- ☐ 33. Metals—Soil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240)
- ☐ 41. BNA—(USEPA 8270)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals

MUNICIPAL SLUDGE

- ☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
- ☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
SILVASAND	(518) 457-3373	0

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
RECRA	MONROE	12/14/93	11:25

SAMPLE MATRIX: ☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
B0913	12114	18481	☐ This Sample	☒ Grab ☐ Composite ☐ Term ___ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

Send This Sheet with Sample to Contract Lab

74-15-1 (5/90)—9a

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION 0937 Part 3

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—USEPA 624 (GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphrous
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles USEPA 524.2 (GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC-MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC-MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC-MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—Water
- ☐ 33. Metals—Soil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240)
- ☐ 41. BNA—(USEPA 8270)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)
☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
CHIUSANO	(518)457-3373	0

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
RECRA	MONROE	12/14/93	11:40

SAMPLE MATRIX:
☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
8B0913	12114	18418012	☐ This Sample	☐ Grab ☒ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week ☒ Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of Inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

74-15-1 (5/90)—9a

Send This Sheet with Sample to Contract Lab

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CONTRACT LAB SAMPLE INFORMATION SHEET

Print legibly

10038 Part 3

CAUTION (check if applicable)

☐ Lab Personnel are expected to use caution when handling DEC samples, however, please use special precautions when handling this sample since it is believed to contain significant concentrations of hazardous and/or toxic material(s).

Place QA Label Here

CHECK THE BOX PRECEDING THE REQUESTED ANALYSIS

PRIORITY POLLUTANTS (Water Part 136)—SPDES

- ☐ 2. 13 PP Metals
- ☐ 3. Volatiles—USEPA 624 (GC/MS)
- ☐ 6. Pesticides/PCB's (USEPA 608-GC)
- ☐ 4. Acids Base/Neutrals (USEPA 625-GC/MS)
- ☐ 5. Cyanide
- ☐ 9. BOD
- ☐ 7. Halogenated Volatiles (USEPA 601-GC)
- ☐ 8. Aromatic Volatiles (USEPA 602-GC)
- ☐ 12. TSS
- ☐ 10. pH
- ☐ 11. COD
- ☐ 15. Ammonia
- ☐ 13. Settleable Solids
- ☐ 14. TKN
- ☐ 18. Reactive Phosphorus
- ☐ 16. Nitrate/Nitrite
- ☐ 17. Total Phosphrous
- ☐ 21. Total Phenols
- ☐ 19. Oil/Grease
- ☐ 20. TOC
- ☐ 60. PCB's congener method
- ☐ 22. Other _____
- ☐ 59. PCB's at 0.065 ug/L
- ☐ 64. Total Solids
- ☐ 62. CBOD
- ☐ 65. Volatiles USEPA 524.2 (GC/MS)

CONTRACT LABORATORY PROTOCOLS

- ☐ 23. (ALL)—Water—Includes 24-28
- ☐ 29. (ALL)— Soil/Sediments—Includes 30-34
- ☐ 24. Base/Neutral/Acid (B/N/A)—Water—GC-MS (ASP #89-2)
- ☐ 30. B/N/A/—Soils/Sediment—GC-MS (ASP #89-2)
- ☒ 25. Volatile Organic Analysis VOA—Water—GC-MS(ASP #89-1)
- ☐ 31. VOA—Soils/Sediments—GC-MS (ASP #89-1)
- ☐ 26. Pesticides/PCB's—Water—GC(ASP #89-3)
- ☐ 32. Pesticides/PCB's—Soils/Sediment—GC (ASP #89-3)
- ☐ 27. Metals—Water
- ☐ 33. Metals—Soil/Sediment
- ☐ 28. Cyanide—Water
- ☐ 34. Cyanide—Soils/Sediment
- ☐ 66. Dioxin-Water (ASP #89-4)
- ☐ 67. Dioxin-Soil/Sediment (ASP #89-4)
- ☐ 35. Other _____

HAZARDOUS WASTES/RCRA ANALYSIS SW-846

- ☐ 36. EP Toxicity
- ☐ 37. EP Toxicity (Metals Only)
- ☐ 38. Ignitability
- ☐ 39. Corrosivity
- ☐ 40. VOA—(USEPA 8240)
- ☐ 41. BNA—(USEPA 8270)
- ☐ 42. Pesticides/PCB's (USEPA 8080)
- ☐ 43. TCLP
- ☐ 44. TCLP (Metals Only)
- ☐ 45. Reactivity
- ☐ 46. Dioxin (USEPA 8280)
- ☐ 47. Appendix IX
- ☐ 48. Other _____
- ☐ 63. Percent Solids
- ☐ 68. Metals

MUNICIPAL SLUDGE

☐ 49. RSGB-01 ☐ 50. RSSR-01 ☐ 51. RSGR-01 ☐ 52. RSRB-01 ☐ 53. RSRI-01 (EP Toxicity-Metals only + RSRR-01)

☐ 54. RSRO-01 ☐ 55. RSSB-01 ☐ 56. RSRR-01 ☐ 57. RSRR-02 ☐ 58. Other _____

COLLECTED BY:	TELEPHONE NUMBER:	REGION NO:
CHIUSANO	(518)457-3373	0

CONTRACT LAB:	COUNTY:	SAMPLING DATE:	MILITARY TIME:
RECRA	MONROE	12/14/93	13:00

SAMPLE MATRIX:

☐ Air ☐ Soil/Sediment ☒ Groundwater ☐ Surface Water ☐ Wastewater ☐ Other (Specify) _____

CASE NUMBER	SDG NUMBER	SAMPLE NUMBER	CHECK FOR MS/MD	TYPE OF SAMPLE:
R B 0 9 1 3	1 2 1 4	1 B 4 8 0 3	☐ This Sample	☒ Grab ☐ Composite ☐ Term ____ hrs

☐ Check if there will be more samples with this SDG sent in this calendar week

Report via Catagory B, unless checked ☐

SAMPLING POINT:	Check if field duplicate ☐	Outfall Number	Check if sampling is part of Inspection ☐
	SPDES NUMBER/REGISTRY NUMBER		FLOW GPD MGD

VOLATILES DATA

QC SUMMARY

RECRA
ENVIRONMENTAL
INC.

2A

WATER VOLATILE SYSTEM MONITORING COMPOUND RECOVERY

Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

	EPA SAMPLE NO.	SMC1 (TOL)#	SMC2 (BFB)#	SMC3 (DCE)#	OTHER	TOT OUT
01	184801	96	103	114	0	0
02	184801DL	100	103	103	0	0
03	184802	95	102	117 *	0	1
04	184802DL	98	103	105	0	0
05	184803	96	101	110	0	0
06	MSBLANK	98	100	100	0	0
07	TBLANK	97	101	106	0	0
08	184802MS	96	103	119 *	0	1
09	184802MSD	96	103	118 *	0	1
10	VBLK22	97	98	103	0	0
11	VBLK23	101	104	101	0	0

	QC LIMITS
SMC1 (TOL) = Toluene-d8	(88-110)
SMC2 (BFB) = Bromofluorobenzene	(86-115)
SMC3 (DCE) = 1,2-Dichloroethane-d4	(76-114)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D System Monitoring Compound diluted out

3X
WATER VOLATILE MATRIX SPIKE RECOVERY

Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix Spike - Sample No.: MSBLANK

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.0	0	49.8	100	61-145
Trichloroethene	50.0	0	46.4	93	71-120
Benzene	50.0	1.50	49.9	97	76-127
Toluene	50.0	0	48.9	98	76-125
Chlorobenzene	50.0	1.54	47.2	91	75-130

Column to be used to flag recovery values with an asterisk

* Values outside of QC limits

Spike Recovery: 0 out of 5 outside limits

COMMENTS: VBLK 22
I50K

3A

WATER VOLATILE MATRIX SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix Spike - EPA Sample No.: 184802

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC #	QC LIMITS REC.
1,1-Dichloroethene	50.00	22.82	85.72	126	61-145
Trichloroethene	50.00	265.0	308.0	86	71-120
Benzene	50.00	1.547	50.14	97	76-127
Toluene	50.00	0.6458	49.56	98	76-125
Chlorobenzene	50.00	0	46.76	94	75-130

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1-Dichloroethene	50.00	81.54	117	7	14	61-145
Trichloroethene	50.00	297.2	64 *	29 *	14	71-120
Benzene	50.00	49.44	96	1	11	76-127
Toluene	50.00	49.84	98	0	13	76-125
Chlorobenzene	50.00	47.20	94	0	13	75-130

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

* Values outside of QC limits

RPD: 1 out of 5 outside limits
Spike Recovery: 1 out of 10 outside limits

COMMENTS: AS053078 JOB4488
I50K

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK22

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID: K8698 Lab Sample ID: AM003825

Date Analyzed: 12/17/93 Time Analyzed: 2037

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

Instrument ID: I50K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	184801	AS053077	K8712	0421
02	184802	AS053078	K8713	0454
03	184803	AS053079	K8711	0348
04	MSBLANK	AS053081	K8697	2010
05	TBLANK	AS053082	K8709	0241
06	184802MS	AS053078MS	K8714	0527
07	184802MSD	AS053078SD	K8715	0601

COMMENTS: VBLK 22
I50K

4A
VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VBLK23

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID: K8726 Lab Sample ID: AM003826

Date Analyzed: 12/18/93 Time Analyzed: 1427

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

Instrument ID: I50K

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	TIME ANALYZED
01	184801DL	AS053077DL	K8727	1500
02	184802DL	AS053078DL	K8728	1534

COMMENTS: VBLK23
I50K

5A

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID: K8102 BFB Injection Date: 11/15/93

Instrument ID: I50K BFB Injection Time: 1528

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	24.4
75	30.0 - 60.0% of mass 95	50.1
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.9% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.0
175	5.0 - 9.0% of mass 174	4.8 (7.1)1
176	95.0 - 101.0% of mass 174	66.6 (99.4)1
177	5.0 - 9.0% of mass 176	4.2 (6.3)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	K8103	11/15/93	1544
02	VSTD010	VSTD010	K8104	11/15/93	1616
03	VSTD020	VSTD020	K8105	11/15/93	1650
04	VSTD100	VSTD100	K8106	11/15/93	1725
05	VSTD200	VSTD200	K8108	11/15/93	1834

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID: K8695 BFB Injection Date: 12/17/93

Instrument ID: I50K BFB Injection Time: 1918

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	25.2
75	30.0 - 60.0% of mass 95	52.7
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	7.0
173	Less than 2.9% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	68.0
175	5.0 - 9.0% of mass 174	5.0 (7.4)1
176	95.0 - 101.0% of mass 174	67.3 (99.0)1
177	5.0 - 9.0% of mass 176	4.2 (6.2)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	K8696	12/17/93	1929
02	MSBLANK	AS053081	K8697	12/17/93	2010
03	VBLK22	AM003825	K8698	12/17/93	2037
04	TBLANK	AS053082	K8709	12/18/93	0241
05	184803	AS053079	K8711	12/18/93	0348
06	184801	AS053077	K8712	12/18/93	0421
07	184802	AS053078	K8713	12/18/93	0454
08	184802MS	AS053078MS	K8714	12/18/93	0527
09	184802MSD	AS053078SD	K8715	12/18/93	0601

5A
VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID: K8723 BFB Injection Date: 12/18/93

Instrument ID: I50K BFB Injection Time: 1306

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	26.0
75	30.0 - 60.0% of mass 95	53.3
95	Base peak, 100% relative abundance	100.0
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.9% of mass 174	0.0 (0.0)1
174	50.0 - 120.0% of mass 95	67.5
175	5.0 - 9.0% of mass 174	4.5 (6.7)1
176	95.0 - 101.0% of mass 174	67.8 (100.4)1
177	5.0 - 9.0% of mass 176	3.7 (5.4)2

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

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

	EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
01	VSTD050	VSTD050	K8724	12/18/93	1317
02	VBLK23	AM003826	K8726	12/18/93	1427
03	184801DL	AS053077DL	K8727	12/18/93	1500
04	184802DL	AS053078DL	K8728	12/18/93	1534

8A
VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID (Standard): K8696 Date Analyzed: 12/17/93

Instrument ID: I50K Time Analyzed: 1929

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

		IS1(BCM) AREA #		IS2(DFB) AREA #		IS3(CBZ) AREA #	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
	12 HOUR STD	42795	12.87	164542	14.82	144592	19.62
	UPPER LIMIT	85590	13.37	329084	15.32	289184	20.12
	LOWER LIMIT	21398	12.37	82271	14.32	72296	19.12
	EPA SAMPLE NO.						
01	184801	34288	12.89	138160	14.84	125513	19.62
02	184802	32309	12.89	132221	14.85	123561	19.65
03	184803	36175	12.89	142364	14.84	129985	19.64
04	MSBLANK	43349	12.89	165350	14.84	145855	19.62
5	TBLANK	38804	12.90	149345	14.85	134315	19.65
06	184802MS	32096	12.90	133544	14.85	124334	19.67
07	184802MSD	32541	12.90	136132	14.85	124184	19.65
08	VBLK22	41707	12.89	161428	14.82	145811	19.62

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

8A

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Lab File ID (Standard): K8724 Date Analyzed: 12/18/93

Instrument ID: I50K Time Analyzed: 1317

GC Column: DB-624 ID: 0.530 (mm) Heated Purge: (Y/N) N

		IS1 (BCM) AREA #		IS2 (DFB) AREA #		IS3 (CBZ) AREA #	
			RT #		RT #		RT #
	12 HOUR STD	39498	12.92	150529	14.87	139230	19.67
	UPPER LIMIT	78996	13.42	301058	15.37	278460	20.17
	LOWER LIMIT	19749	12.42	75264	14.37	69615	19.17
	EPA SAMPLE NO.						
01	184801DL	37090	12.90	142412	14.85	130394	19.69
02	184802DL	36486	12.90	142513	14.85	129779	19.67
03	VBLK23	39190	12.94	147799	14.89	132948	19.70

IS1 (BCM) = Bromochloromethane
IS2 (DFB) = 1,4-Difluorobenzene
IS3 (CBZ) = Chlorobenzene-d5

AREA UPPER LIMIT = + 100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = +0.50 minutes of internal standard RT.
RT LOWER LIMIT = -0.50 minutes of internal standard RT.

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

******* VOA IDL Study ****** instr.: 150K date: 11/93 analyst: JB

	Compound (units of measure = ug/l)	K8141	K8142	K8143	K8144	K8147	K8148	K8149	ave.	S.D.	IDL
C010	CHLOROMETHANE	3.06	3.17	2.99	3.21	3.00	2.84	2.97	3.03	0.12	0.37
C015	BROMOMETHANE	4.09	4.12	4.07	4.12	4.13	3.91	4.01	4.06	0.08	0.24
C020	VINYL CHLORIDE	2.49	2.73	2.63	2.67	2.62	2.58	2.63	2.62	0.08	0.23
C025	CHLOROETHANE	3.24	3.24	3.15	3.32	3.27	3.06	3.22	3.21	0.08	0.25
C030	METHYLENE CHLORIDE	4.65	4.59	4.45	4.66	3.79	3.71	3.72	4.23	0.46	1.37
C035	ACETONE	6.38	6.05	6.01	6.66	5.86	5.54	5.80	6.04	0.37	1.12
C040	CARBON DISULFIDE	2.75	2.80	2.76	2.81	2.90	2.73	2.91	2.81	0.07	0.22
C045	1,1-DICHLOROETHENE	2.81	2.91	2.71	2.97	2.92	2.77	2.82	2.85	0.09	0.28
C050	1,1-DICHLOROETHANE	3.42	3.56	3.45	3.48	3.56	3.45	3.56	3.50	0.06	0.18
C057	TRANS-1,2-DICHLOROETHENE	2.98	3.01	2.99	3.12	3.10	3.06	3.19	3.06	0.08	0.23
C060	CHLOROFORM	3.56	3.62	3.54	3.53	3.73	3.60	3.71	3.62	0.08	0.24
C065	1,2-DICHLOROETHANE	3.73	3.70	3.63	3.68	3.84	3.77	3.70	3.72	0.07	0.21
C110	2-BUTANONE	6.76	6.80	6.48	6.93	6.07	5.67	5.98	6.38	0.48	1.45
C115	1,1,1-TRICHLOROETHANE	3.08	3.07	2.99	3.19	3.29	3.16	3.25	3.15	0.11	0.32
C120	CARBON TETRACHLORIDE	2.97	3.10	3.02	3.13	3.12	2.94	3.02	3.04	0.07	0.22
C125	VINYL ACETATE	2.92	2.83	2.76	2.71	2.51	2.36	2.32	2.63	0.24	0.71
C130	BROMODICHLOROMETHANE	3.18	3.25	3.24	3.21	3.32	3.28	3.31	3.25	0.05	0.15
C056	CIS-1,2-DICHLOROETHENE	2.96	3.04	3.00	3.06	3.20	2.99	3.12	3.05	0.08	0.25
C036	ACROLEIN	18.53	17.23	16.75	17.24	16.58	15.47	13.74	16.50	1.52	4.57
C038	ACRYLONITRILE	28.03	27.21	27.24	27.13	27.11	26.92	26.14	27.11	0.56	1.67
C275	TRICHLOROFLUOROMETHANE	3.21	3.34	3.26	3.36	3.17	3.05	3.18	3.22	0.11	0.32
C300	ACETONITRILE	11.05	11.01	11.16	11.58	8.25	8.89	7.76	9.96	1.59	4.78
C140	1,2-DICHLOROPROPANE	3.52	3.53	3.39	3.47	3.58	3.47	3.45	3.49	0.06	0.19
C145	CIS-1,3-DICHLOROPROPENE	2.83	2.83	2.77	2.77	2.84	2.71	2.74	2.78	0.05	0.15
C150	TRICHLOROETHENE	3.25	3.35	3.27	3.40	3.38	3.26	3.36	3.32	0.06	0.19
C155	DIBROMOCHLOROMETHANE	3.24	3.28	3.24	3.23	3.36	3.23	3.22	3.26	0.05	0.15
C160	1,1,2-TRICHLOROETHANE	3.69	3.69	3.69	3.69	3.61	3.66	3.59	3.66	0.04	0.13
C165	BENZENE	3.47	3.55	3.47	3.53	3.61	3.50	3.57	3.53	0.05	0.16
C170	TRANS-1,3-DICHLOROPROPENE	2.75	2.84	2.75	2.74	2.83	2.67	2.65	2.75	0.07	0.22
C180	BROMOFORM	2.96	2.97	2.90	3.00	2.94	2.88	2.84	2.93	0.06	0.17
C161	2-CHLOROETHYL VINYL ETHER	2.48	2.53	2.39	2.45	2.44	2.28	2.32	2.41	0.09	0.26
C163	1,2-DIBROMOETHANE	3.34	3.38	3.35	3.35	3.34	3.26	3.19	3.32	0.07	0.20
C286	1,2-DIBROMO-3-CHLOROPROPANE	2.50	2.39	2.19	2.35	2.28	2.06	2.05	2.26	0.17	0.51
C210	4-METHYL-2-PENTANONE	7.16	6.91	6.95	7.26	6.72	6.67	6.68	6.91	0.23	0.70
C215	2-HEXANONE	7.62	7.77	7.91	7.33	7.48	7.08	6.62	7.40	0.44	1.33
C220	TETRACHLOROETHENE	3.36	3.41	3.38	3.43	3.54	3.31	3.49	3.42	0.08	0.23
C225	1,1,2,2-TETRACHLOROETHANE	3.67	3.62	3.49	3.55	3.49	3.32	3.33	3.50	0.13	0.40
C230	TOLUENE	3.43	3.41	3.38	3.42	3.55	3.34	3.54	3.44	0.08	0.24
C235	CHLOROBENZENE	3.70	3.76	3.72	3.76	3.78	3.64	3.81	3.74	0.06	0.17
C240	ETHYLBENZENE	3.54	3.52	3.43	3.60	3.63	3.40	3.58	3.53	0.09	0.26
C245	STYRENE	3.25	3.25	3.20	3.25	3.36	3.21	3.36	3.27	0.07	0.20
C246	M,P-XYLENE	6.57	7.20	6.83	7.19	6.84	6.89	7.25	6.97	0.25	0.76
C247	O-XYLENE	3.37	3.42	3.31	3.39	3.40	3.25	3.33	3.35	0.06	0.18
C260	1,3-DICHLOROBENZENE	3.13	3.20	3.14	3.18	3.23	3.25	3.19	3.19	0.04	0.13
C267	1,4-DICHLOROBENZENE	3.60	3.48	3.38	3.40	3.56	3.53	3.38	3.48	0.09	0.27
C249	1,2-DICHLOROBENZENE	3.57	3.53	3.47	3.47	3.52	3.39	3.52	3.50	0.06	0.17

= Less than 7 hits for the compound in this row

******* VOA MDL Study ******* instr.: I50K date: 11/93 analyst: JB

	Compound (units of measure = ug/l)	K8141	K8142	K8143	K8144	K8147	K8148	K8149	ave.	S.D.	MDL
C010	CHLOROMETHANE	3.06	3.17	2.99	3.21	3.00	2.84	2.97	3.03	0.12	0.39
C015	BROMOMETHANE	4.09	4.12	4.07	4.12	4.13	3.91	4.01	4.06	0.08	0.25
C020	VINYL CHLORIDE	2.49	2.73	2.63	2.67	2.62	2.58	2.63	2.62	0.08	0.24
C025	CHLOROETHANE	3.24	3.24	3.15	3.32	3.27	3.06	3.22	3.21	0.08	0.26
C030	METHYLENE CHLORIDE	4.65	4.59	4.45	4.66	3.79	3.71	3.72	4.23	0.46	1.44
C035	ACETONE	6.38	6.05	6.01	6.66	5.86	5.54	5.80	6.04	0.37	1.18
C040	CARBON DISULFIDE	2.75	2.80	2.76	2.81	2.90	2.73	2.91	2.81	0.07	0.23
C045	1,1-DICHLOROETHENE	2.81	2.91	2.71	2.97	2.92	2.77	2.82	2.85	0.09	0.29
C050	1,1-DICHLOROETHANE	3.42	3.56	3.45	3.48	3.56	3.45	3.56	3.50	0.06	0.19
C057	TRANS-1,2-DICHLOROETHENE	2.98	3.01	2.99	3.12	3.10	3.06	3.19	3.06	0.08	0.24
C060	CHLOROFORM	3.56	3.62	3.54	3.53	3.73	3.60	3.71	3.62	0.08	0.25
C065	1,2-DICHLOROETHANE	3.73	3.70	3.63	3.68	3.84	3.77	3.70	3.72	0.07	0.22
C110	2-BUTANONE	6.76	6.80	6.48	6.93	6.07	5.67	5.98	6.38	0.48	1.52
C115	1,1,1-TRICHLOROETHANE	3.08	3.07	2.99	3.19	3.29	3.16	3.25	3.15	0.11	0.34
C120	CARBON TETRACHLORIDE	2.97	3.10	3.02	3.13	3.12	2.94	3.02	3.04	0.07	0.23
C125	VINYL ACETATE	2.92	2.83	2.76	2.71	2.51	2.36	2.32	2.63	0.24	0.74
C130	BROMODICHLOROMETHANE	3.18	3.25	3.24	3.21	3.32	3.28	3.31	3.25	0.05	0.15
C056	CIS-1,2-DICHLOROETHENE	2.96	3.04	3.00	3.06	3.20	2.99	3.12	3.05	0.08	0.26
C036	ACROLEIN	18.53	17.23	16.75	17.24	16.58	15.47	13.74	16.50	1.52	4.79
C038	ACRYLONITRILE	28.03	27.21	27.24	27.13	27.11	26.92	26.14	27.11	0.56	1.75
C275	TRICHLOROFLUOROMETHANE	3.21	3.34	3.26	3.36	3.17	3.05	3.18	3.22	0.11	0.34
C300	ACETONITRILE	11.05	11.01	11.16	11.58	8.25	8.89	7.76	9.96	1.59	5.01
C140	1,2-DICHLOROPROPANE	3.52	3.53	3.39	3.47	3.58	3.47	3.45	3.49	0.06	0.20
C145	CIS-1,3-DICHLOROPROPENE	2.83	2.83	2.77	2.77	2.84	2.71	2.74	2.78	0.05	0.15
C150	TRICHLOROETHENE	3.25	3.35	3.27	3.40	3.38	3.26	3.36	3.32	0.06	0.19
C155	DIBROMOCHLOROMETHANE	3.24	3.28	3.24	3.23	3.36	3.23	3.22	3.26	0.05	0.16
C160	1,1,2-TRICHLOROETHANE	3.69	3.69	3.69	3.69	3.61	3.66	3.59	3.66	0.04	0.13
C165	BENZENE	3.47	3.55	3.47	3.53	3.61	3.50	3.57	3.53	0.05	0.16
C170	TRANS-1,3-DICHLOROPROPENE	2.75	2.84	2.75	2.74	2.83	2.67	2.65	2.75	0.07	0.23
C180	BROMOFORM	2.96	2.97	2.90	3.00	2.94	2.88	2.84	2.93	0.06	0.18
C161	2-CHLOROETHYL VINYL ETHER	2.48	2.53	2.39	2.45	2.44	2.28	2.32	2.41	0.09	0.27
C163	1,2-DIBROMOETHANE	3.34	3.38	3.35	3.35	3.34	3.26	3.19	3.32	0.07	0.21
C286	1,2-DIBROMO-3-CHLOROPROPANE	2.50	2.39	2.19	2.35	2.28	2.06	2.05	2.26	0.17	0.53
C210	4-METHYL-2-PENTANONE	7.16	6.91	6.95	7.26	6.72	6.67	6.68	6.91	0.23	0.73
C215	2-HEXANONE	7.62	7.77	7.91	7.33	7.48	7.08	6.62	7.40	0.44	1.39
C220	TETRACHLOROETHENE	3.36	3.41	3.38	3.43	3.54	3.31	3.49	3.42	0.08	0.25
C225	1,1,2,2-TETRACHLOROETHANE	3.67	3.62	3.49	3.55	3.49	3.32	3.33	3.50	0.13	0.42
C230	TOLUENE	3.43	3.41	3.38	3.42	3.55	3.34	3.54	3.44	0.08	0.25
C235	CHLOROBENZENE	3.70	3.76	3.72	3.76	3.78	3.64	3.81	3.74	0.06	0.18
C240	ETHYLBENZENE	3.54	3.52	3.43	3.60	3.63	3.40	3.58	3.53	0.09	0.27
C245	STYRENE	3.25	3.25	3.20	3.25	3.36	3.21	3.36	3.27	0.07	0.21
C246	M,P-XYLENE	6.57	7.20	6.83	7.19	6.84	6.89	7.25	6.97	0.25	0.79
C247	O-XYLENE	3.37	3.42	3.31	3.39	3.40	3.25	3.33	3.35	0.06	0.19
C260	1,3-DICHLOROBENZENE	3.13	3.20	3.14	3.18	3.23	3.25	3.19	3.19	0.04	0.14
C267	1,4-DICHLOROBENZENE	3.60	3.48	3.38	3.40	3.56	3.53	3.38	3.48	0.09	0.29
C249	1,2-DICHLOROBENZENE	3.57	3.53	3.47	3.47	3.52	3.39	3.52	3.50	0.06	0.18

= Less than 7 hits for the compound in this row

SAMPLE DATA

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
184801

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053077

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8712

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	44	
75-00-3	Chloroethane	3	J
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	2	J
75-34-3	1,1-Dichloroethane	54	
540-59-0	1,2-Dichloroethene (total)	360	E
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	54	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

184801

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053077

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8712

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

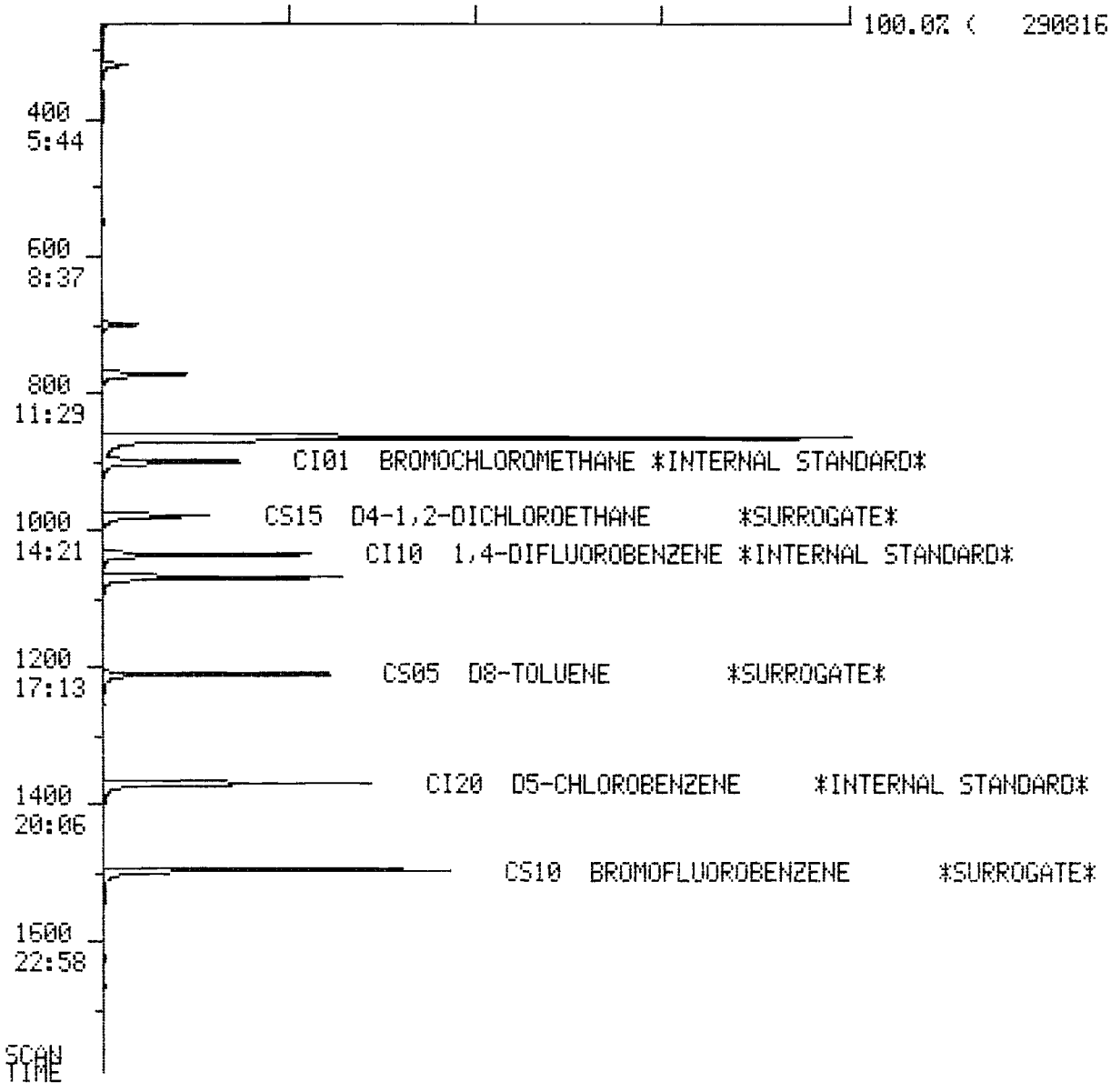
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

DATA FROM FILE: K8712 SCANS 260 TO 1790 ACQUIRED: 12/18/93 4:21:00
CALI: K8712 #3

SAMPLE: AS053077 JOB4488
CONDS.: I50K



Quantitation Report File: K8712

Data: K8712.TI
/18/93 4:21:00
ample: AS053077 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
15	C050	1,1-DICHLOROETHANE
16	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
41	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

Reshoot DF 2

SS Edit 12/18/93

No	Name
48	C246 M,P-XYLENE
49	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	897	12:53	1	1.000	A BB	34288.	250.000 NG	6.34
2	114	1033	14:50	2	1.000	A BB	138160.	250.000 NG	6.34
3	117	1367	19:37	3	1.000	A BB	125513.	250.000 NG	6.34
4	65	977	14:01	1	1.089	A BB	80291.	284.152 NG	7.21
5	98	1207	17:20	3	0.883	A BB	130872.	240.983 NG	6.11
6	95	1493	21:26	3	1.092	A BB	120020.	258.000 NG	6.55
7	NOT FOUND								
8	NOT FOUND								
9	62	317	4:33	1	0.353	A BB	33197.	218.564 NG	5.55
10	64	395	5:40	1	0.440	A BB	1379.	14.070 NG	0.36
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	96	547	7:51	1	0.610	A BB	1261.	8.935 NG	0.23
15	63	770	11:03	1	0.858	A BB	106623.	270.277 NG	6.86
16	96	697	10:00	1	0.777	A BB	14753.	93.354 NG	2.37
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	96	863	12:23	1	0.962	A BB	+ 309482. (14753 / 324235.)	1534.~~250~~ NG (1803.246 NG)	38.95
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	130	1066	15:18	2	1.032	A BB	71342.	268.059 NG	6.80
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

(TOTAL) 1,2-Dichloroethene = #16 + #24

RF = 1.311

MTM 12/28/93

12/18/93

MTM 12/28/93

Quantitation Report File: K8712

Data: K8712.TI
/18/93 4:21:00
mple: AS053077 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

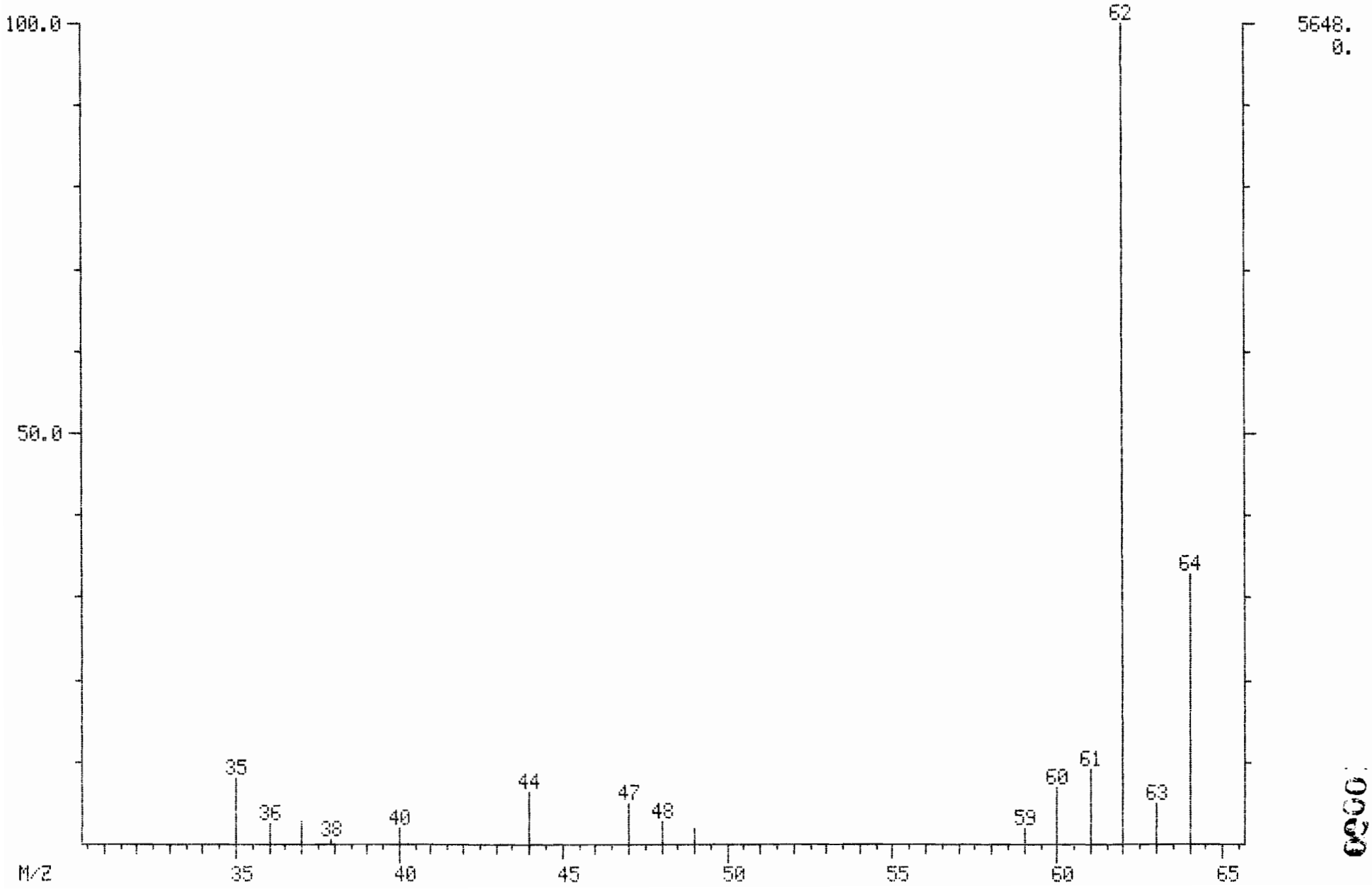
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

MASS SPECTRUM
12/18/93 4:21:00 + 4:33
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C

DATA: K8712 #317
CALI: K8712 #3

BASE M/Z: 62
RIC: 10608.

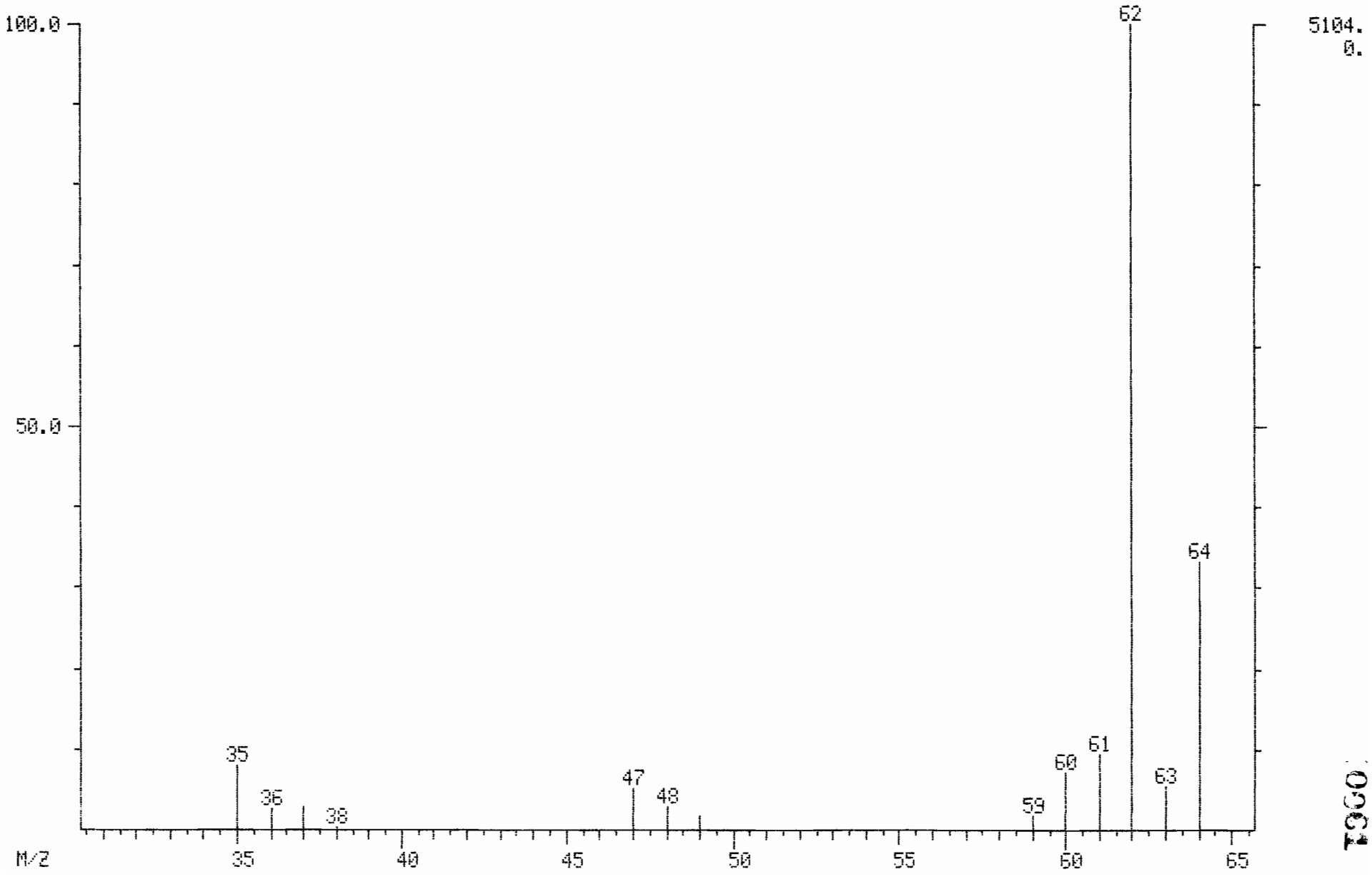
NAME: C020 VINYL CHLORIDE



MASS SPECTRUM
12/18/93 4:21:00 + 4:33
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C020 VINYL CHLORIDE

DATA: K8712 #317
CALI: K8712 #3

BASE M/Z: 62
RIC: 9184.



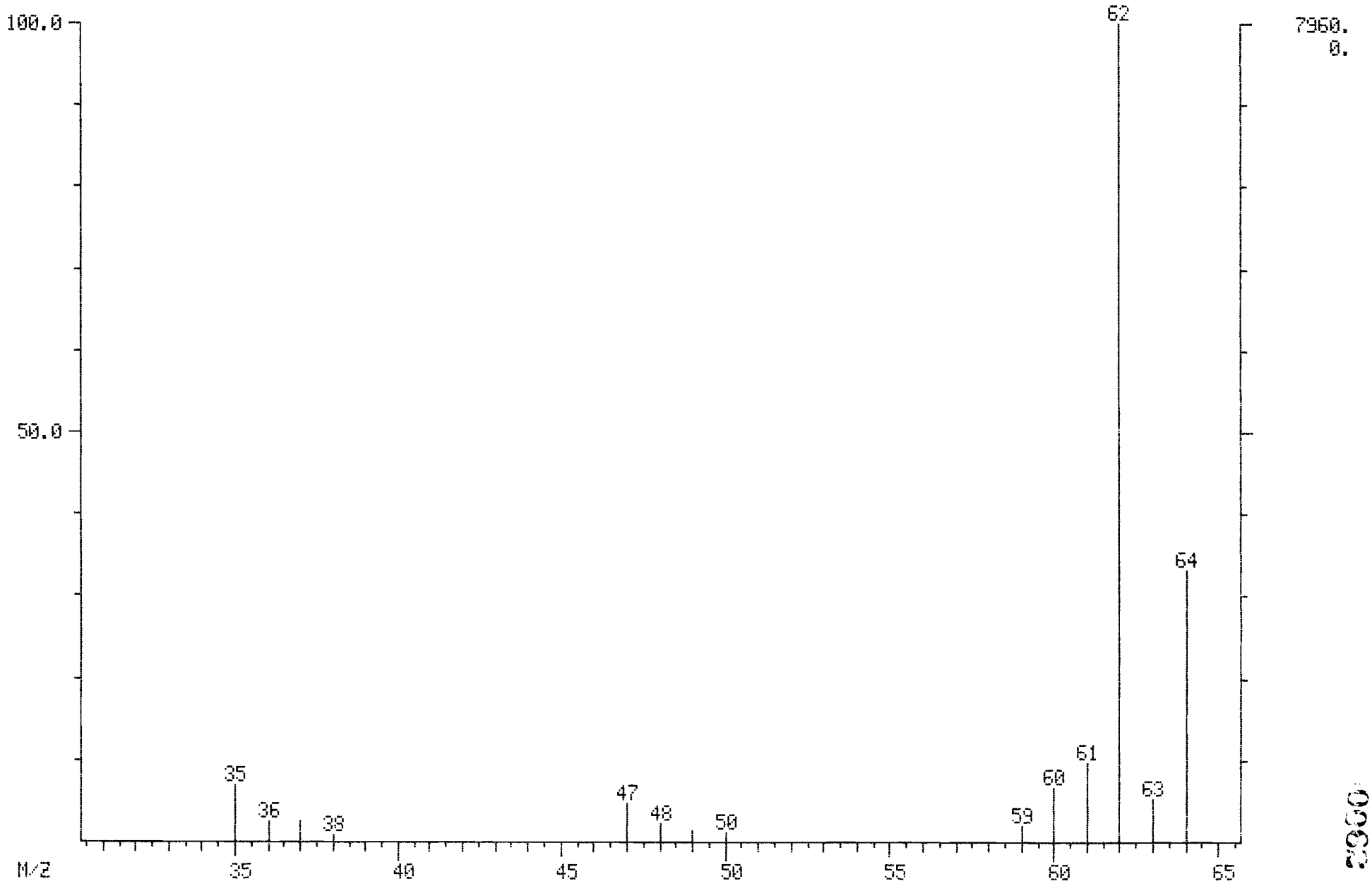
T9600

MASS SPECTRUM
12/17/93 19:29:00 + 4:31
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C

DATA: K8696 #315
ENHANCED (S 15B 2N 0T)

BASE M/Z: 62
RIC: 14288.

NAME: C020 VINYL CHLORIDE



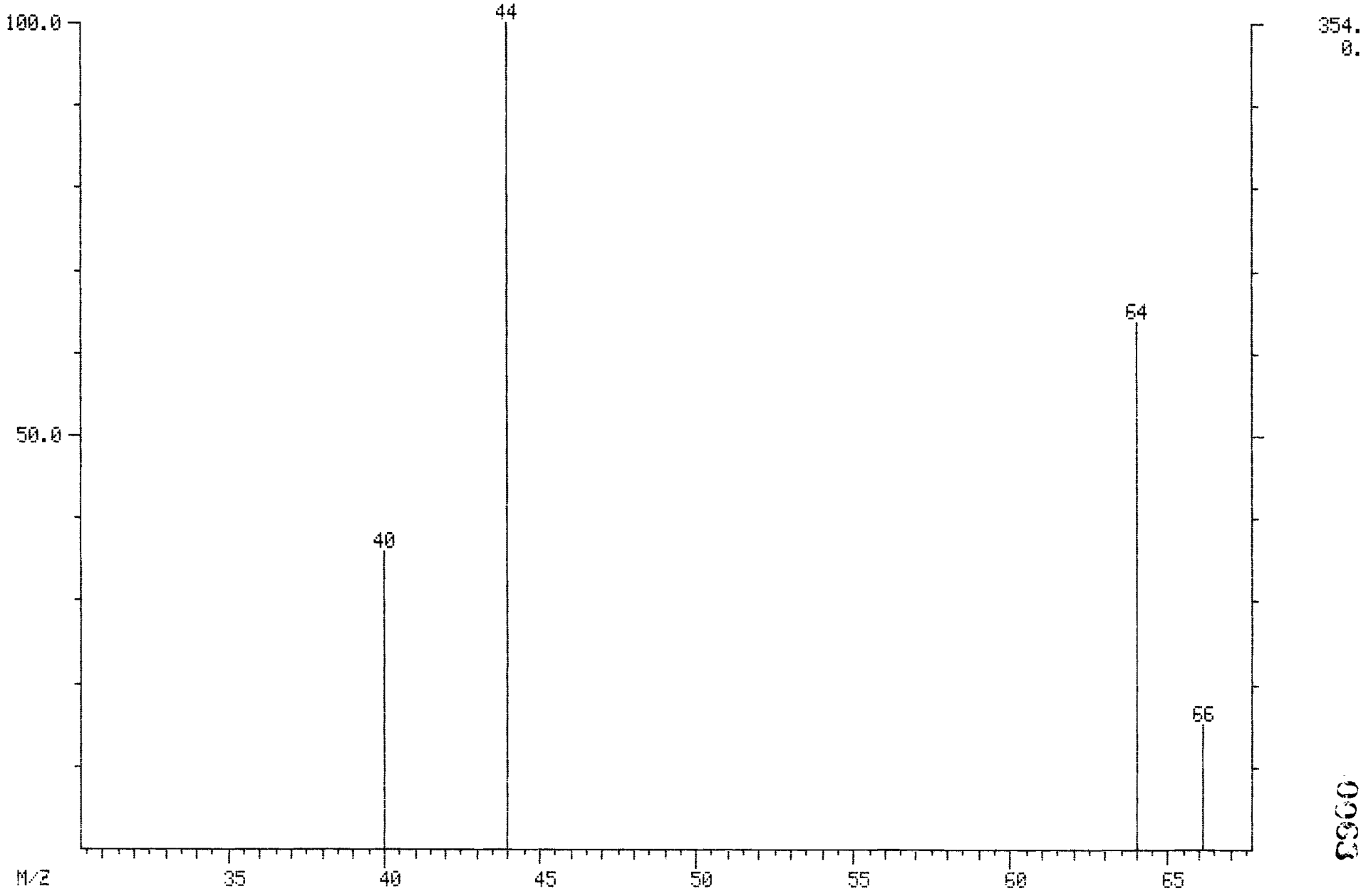
7960

MASS SPECTRUM
12/18/93 4:21:00 + 5:40
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C

DATA: K8712 #395
CALI: K8712 #3

BASE M/Z: 44
RIC: 751.

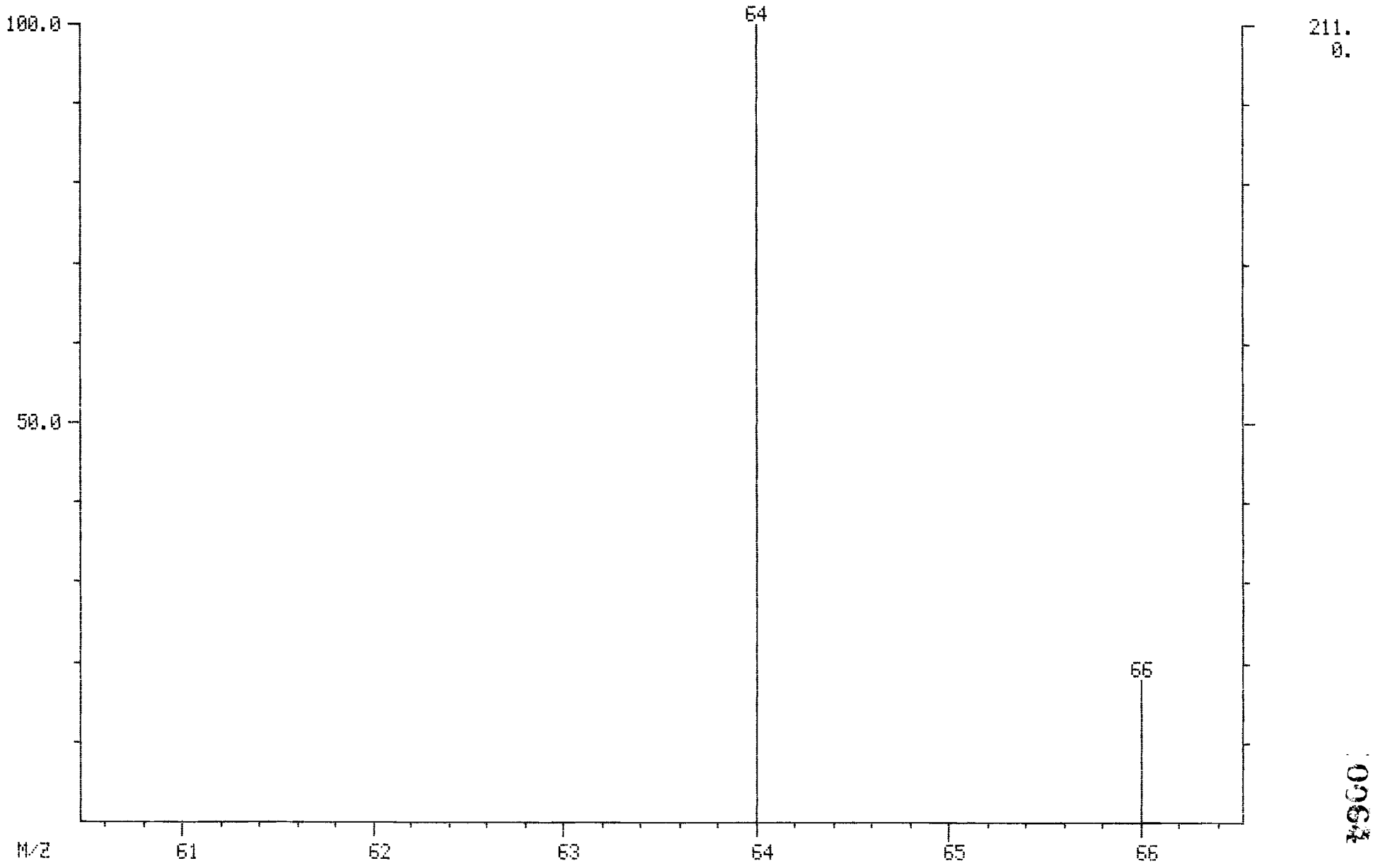
NAME: C025 CHLOROETHANE



MASS SPECTRUM
12/18/93 4:21:00 + 5:40
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C025 CHLOROETHANE

DATA: K8712 #395
CALI: K8712 #3

BASE M/Z: 64
RIC: 249.



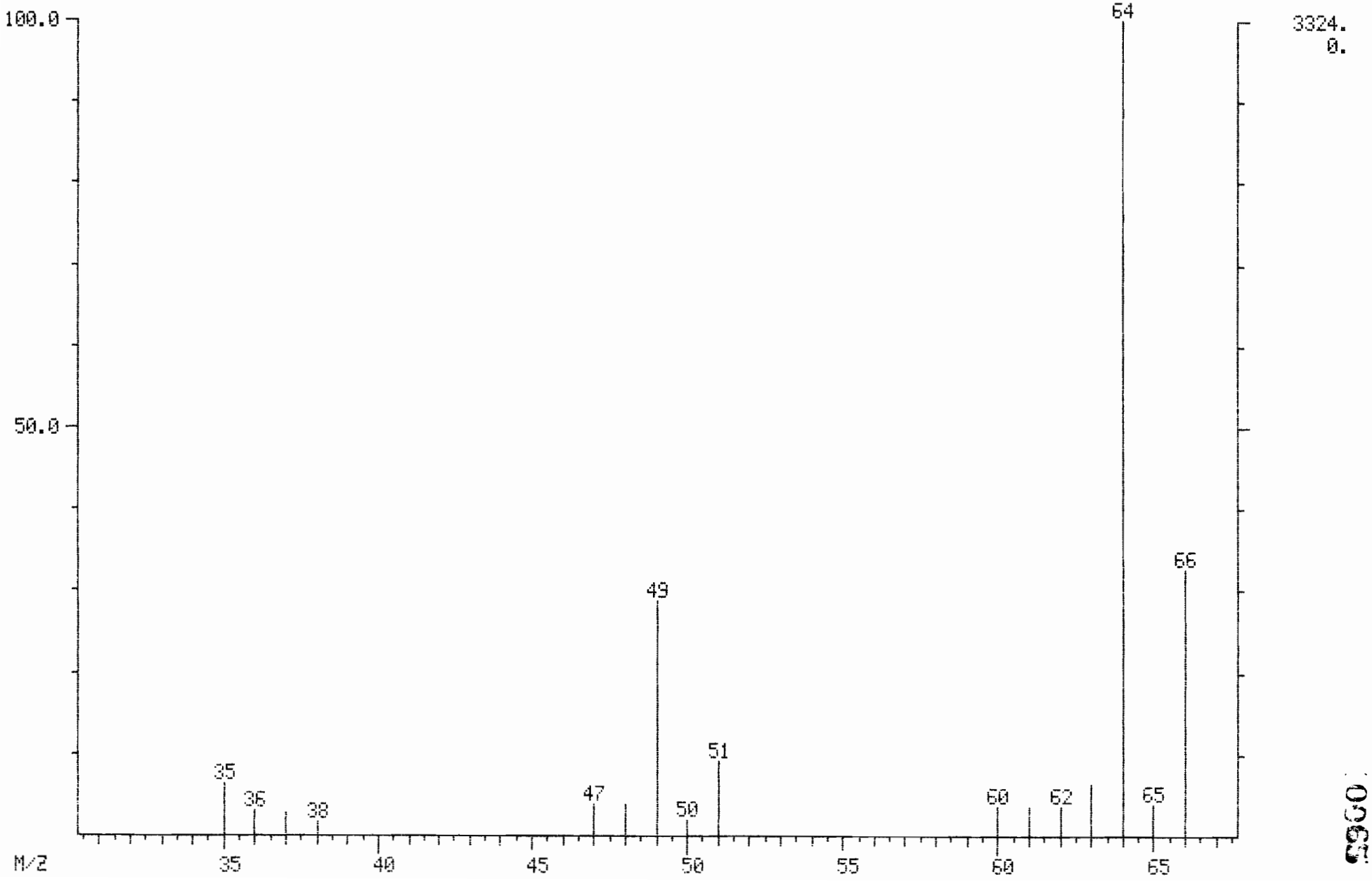
0964

MASS SPECTRUM
12/17/93 19:29:00 + 5:36
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C

DATA: K8696 #390
ENHANCED (S 15B 2N 0T)

BASE M/Z: 64
RIC: 7160.

NAME: C025 CHLOROETHANE

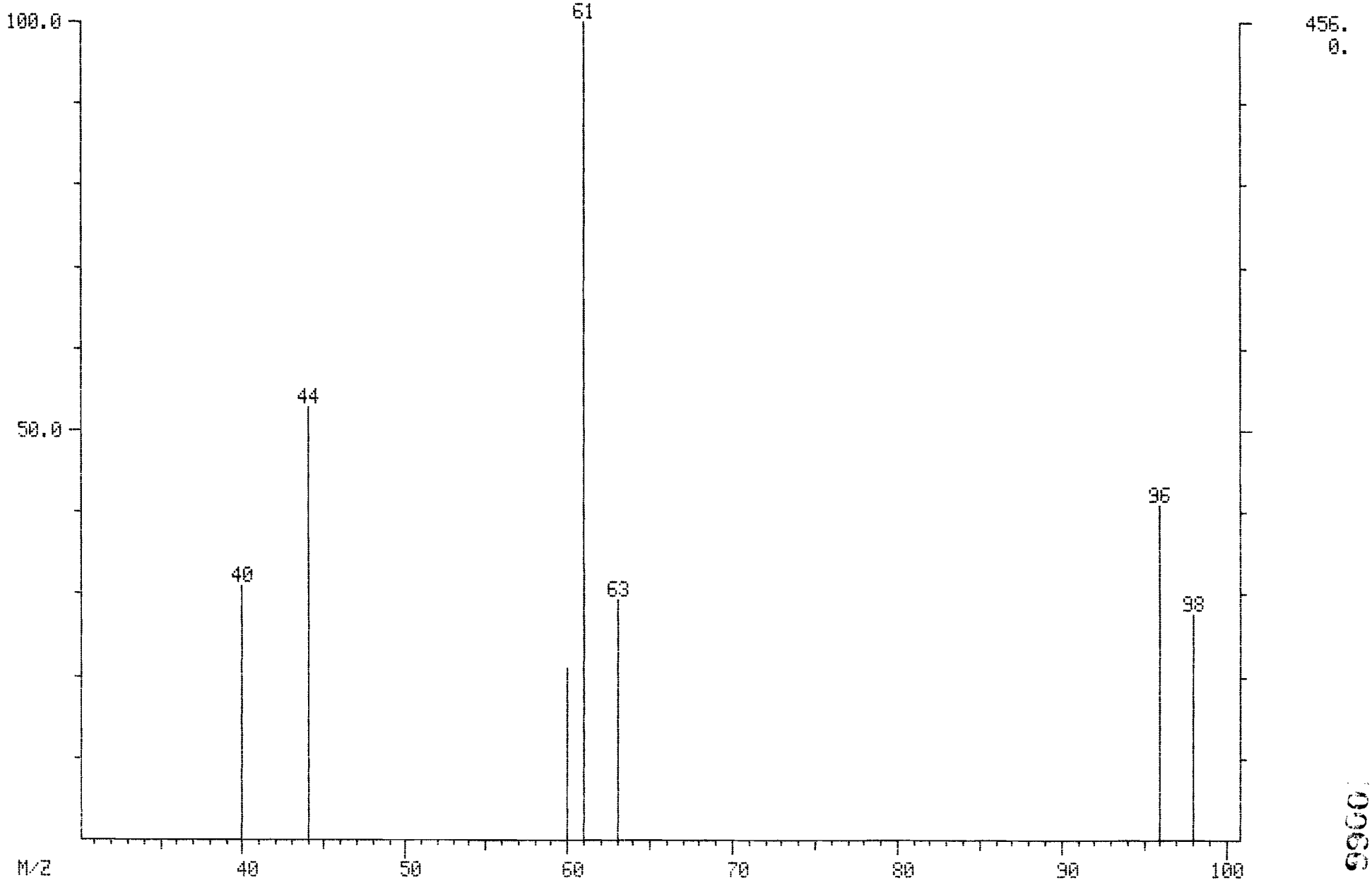


5960

MASS SPECTRUM
12/18/93 4:21:00 + 7:51
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
NAME: C045 1,1-DICHLOROETHENE

DATA: K8712 #547
CALI: K8712 #3

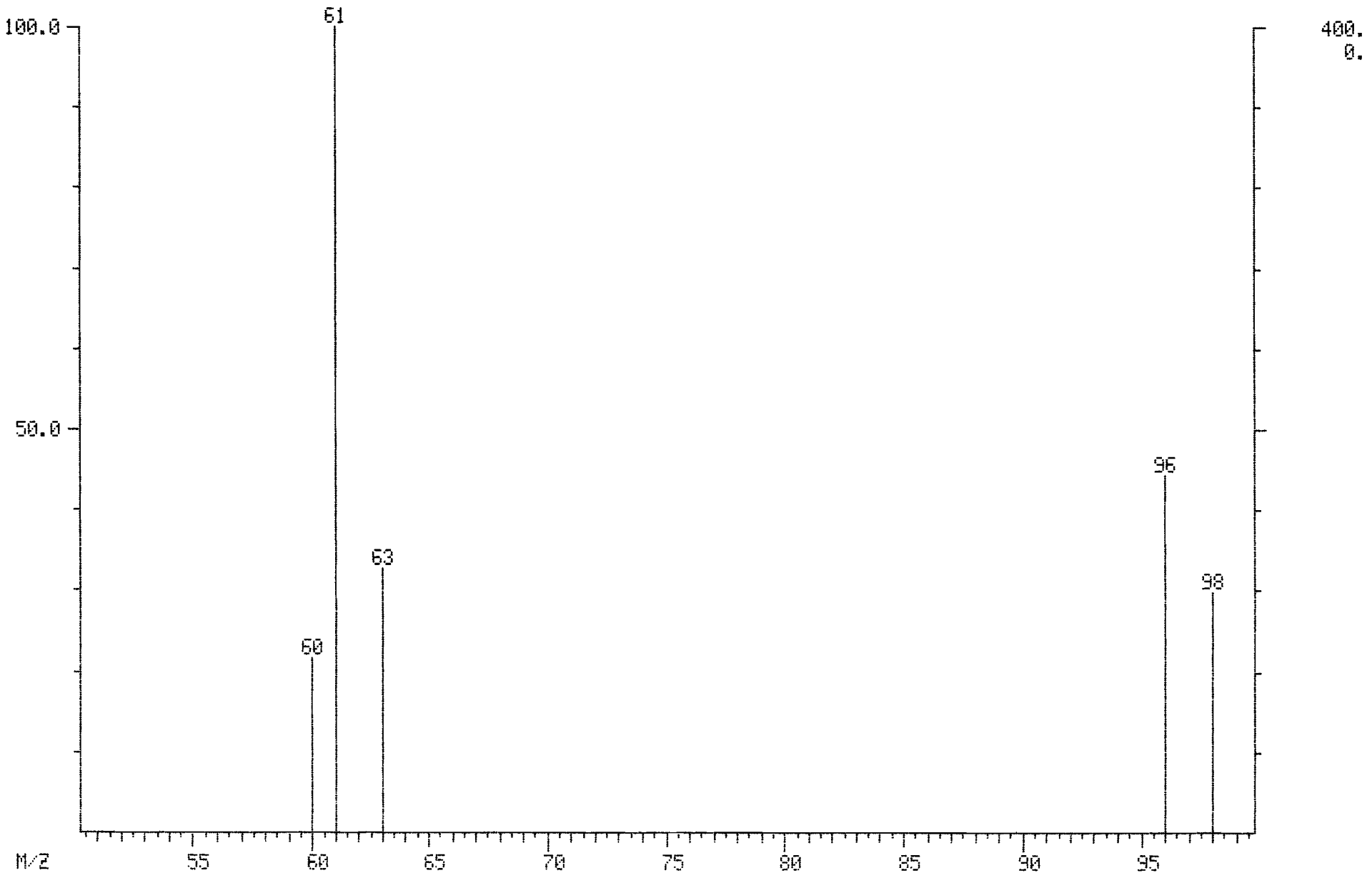
BASE M/Z: 61
RIC: 1380.



MASS SPECTRUM
12/18/93 4:21:00 + 7:51
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C045 1,1-DICHLOROETHENE

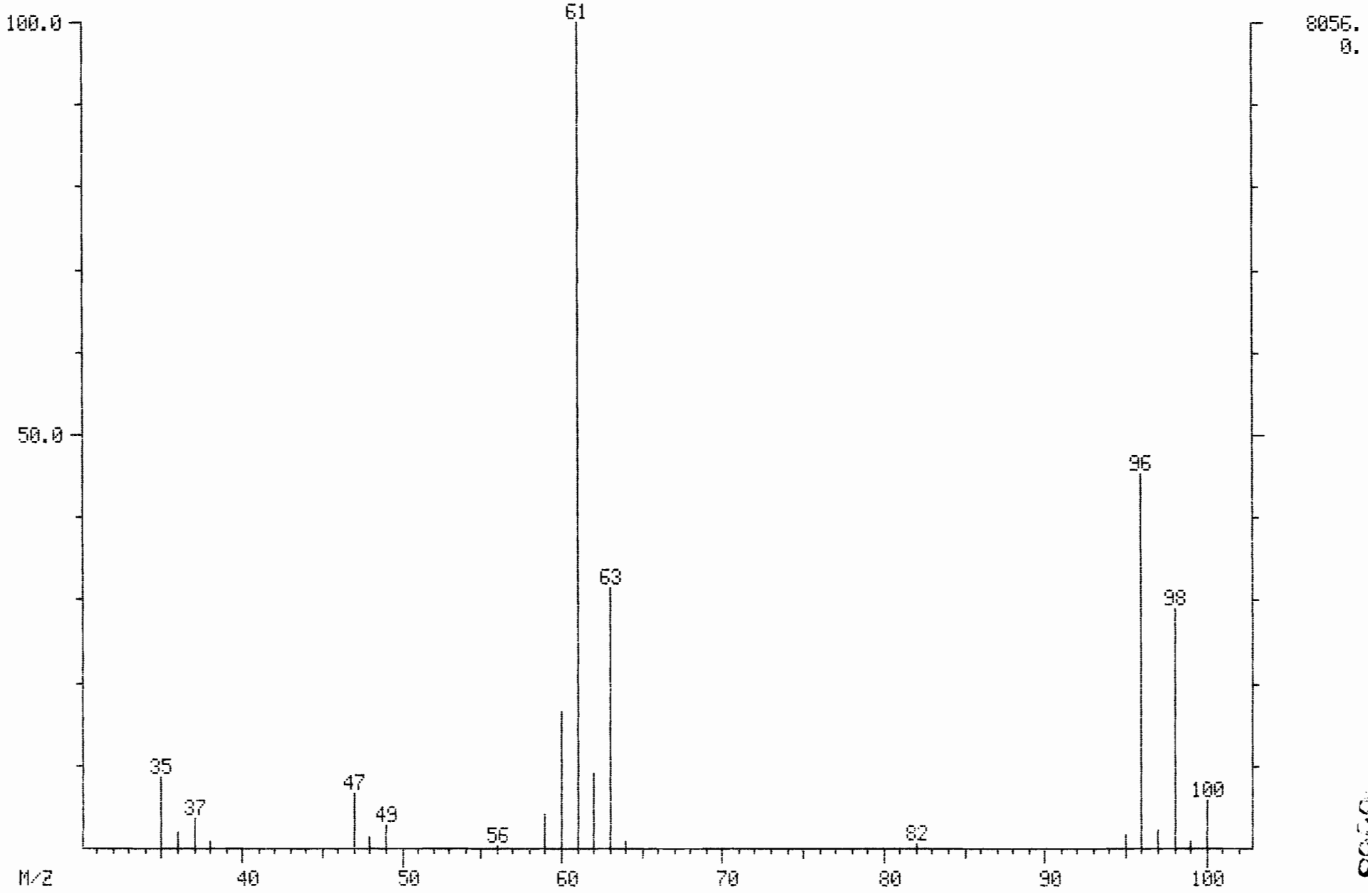
DATA: K8712 #547
CALI: K8712 #3

BASE M/Z: 61
RIC: 913.



MASS SPECTRUM
12/17/93 19:29:00 + 7:48
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C
NAME: C045 1,1-DICHLOROETHENE

DATA: K8696 #543 BASE M/Z: 61
ENHANCED (S 15B 2N 0T) RIC: 22016.

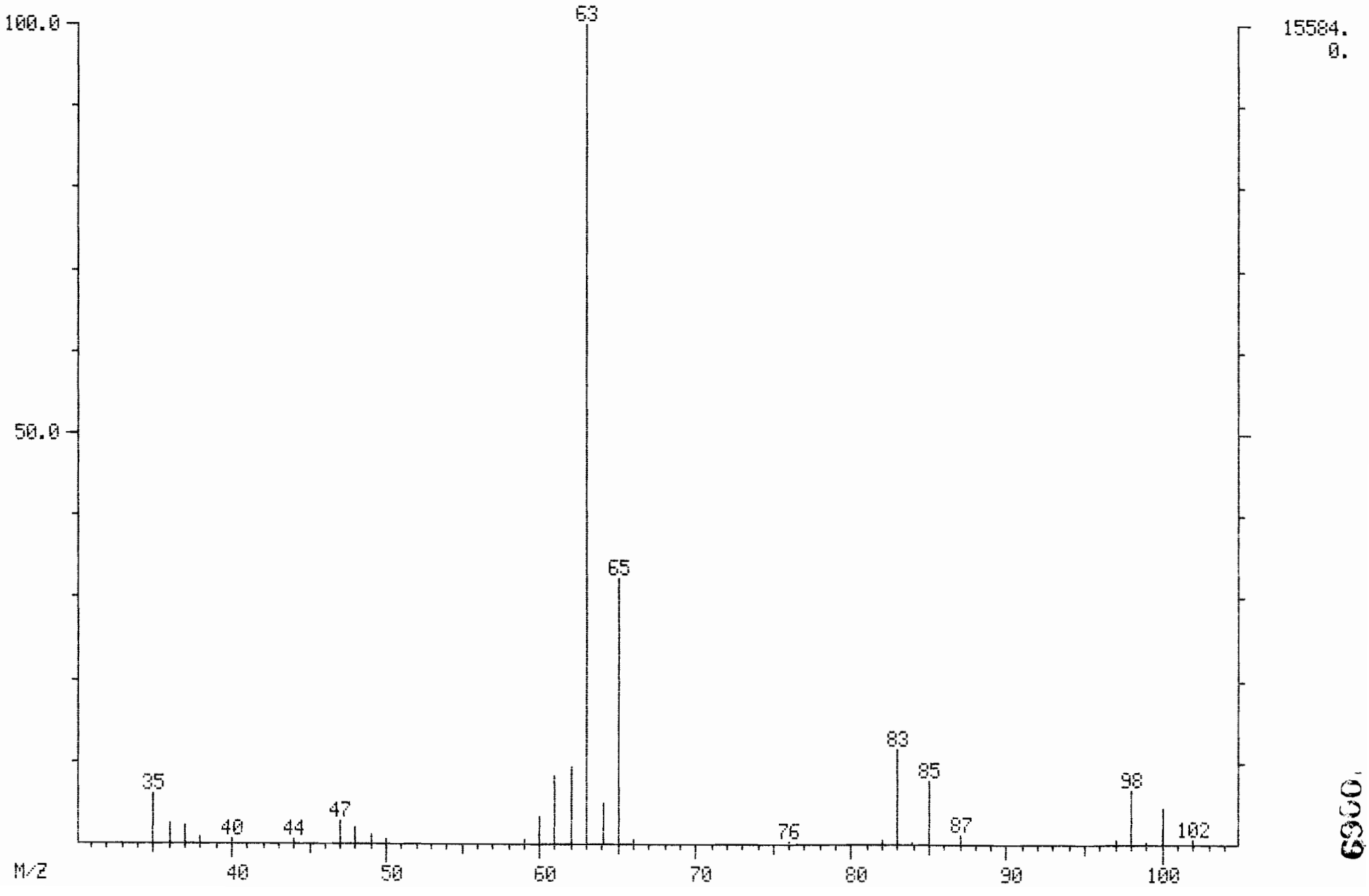


8560

MASS SPECTRUM
12/18/93 4:21:00 + 11:03
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 70 DEG. C
NAME: C050 1,1-DICHLOROETHANE

DATA: K8712 #770
CALI: K8712 #3

BASE M/Z: 63
RIC: 33024.

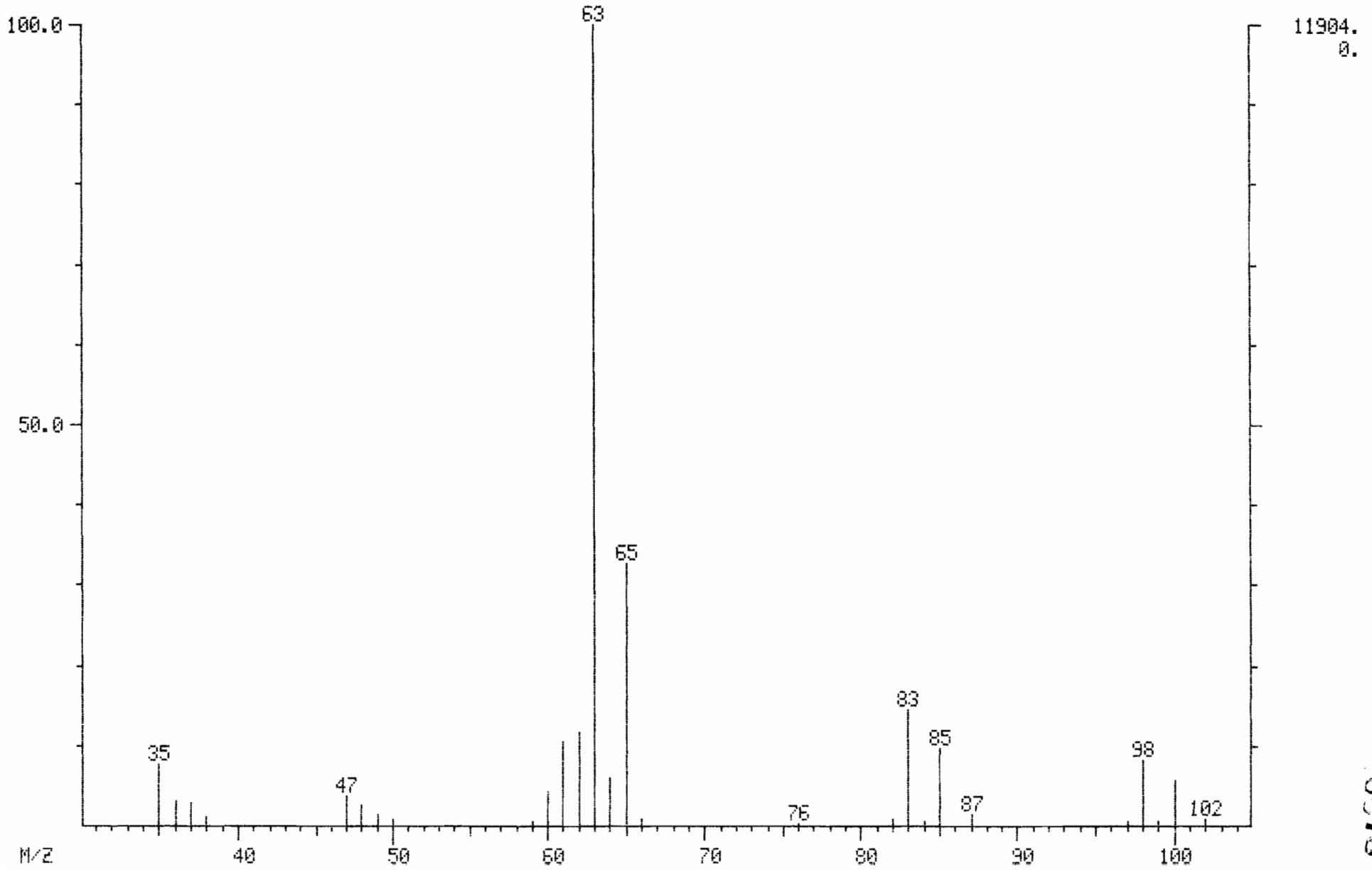


6900

MASS SPECTRUM
12/18/93 4:21:00 + 11:03
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 70 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C050 1,1-DICHLOROETHANE

DATA: K8712 #770
CALI: K8712 #3

BASE M/Z: 63
RIC: 27744.

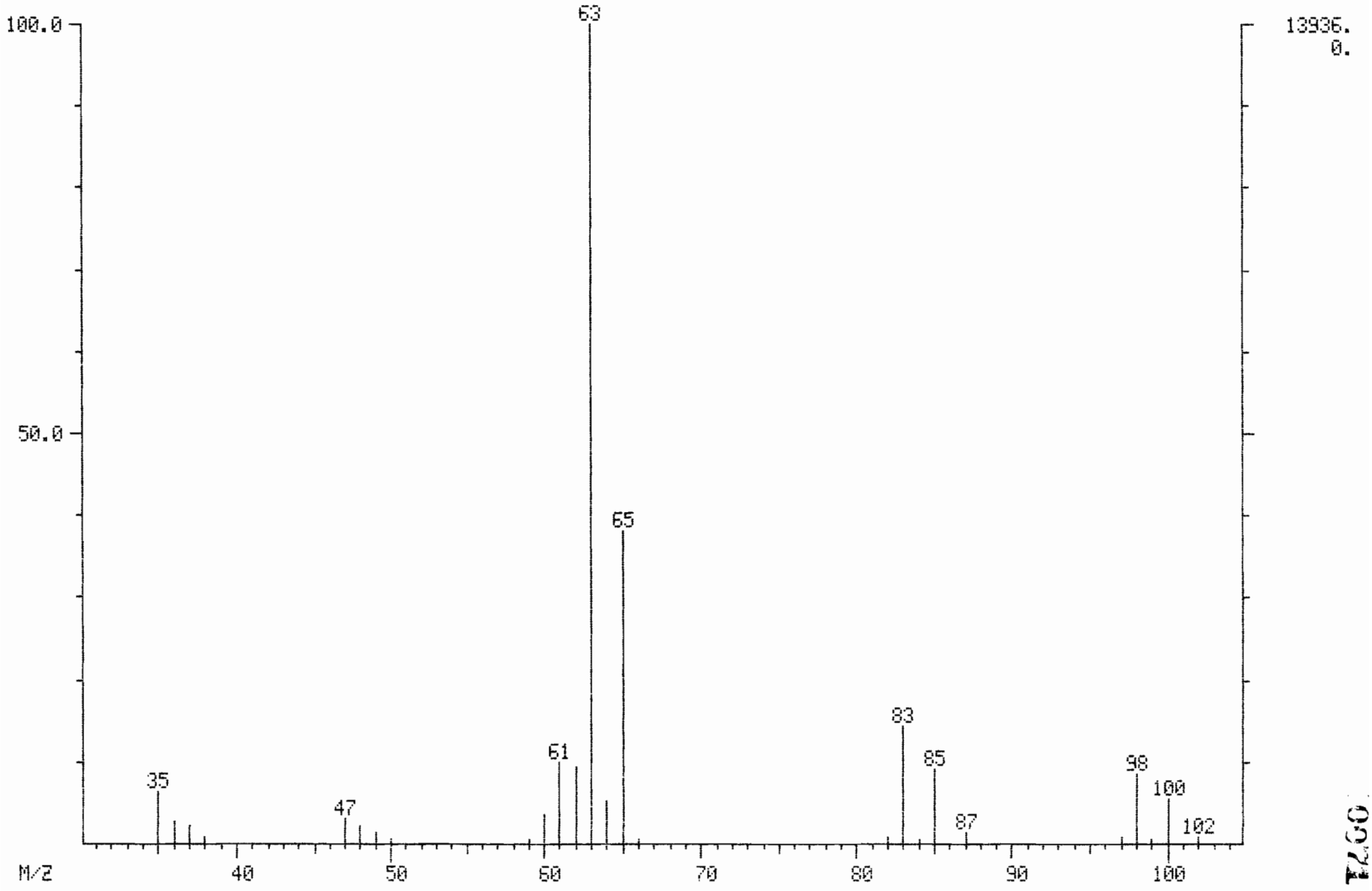


0260

MASS SPECTRUM
12/17/93 19:29:00 + 11:01
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-442 DEG. C
NAME: C050 1,1-DICHLOROETHANE

DATA: K8696 #768
ENHANCED (S 15B 2N 0T)

BASE M/Z: 63
RIC: 32032.



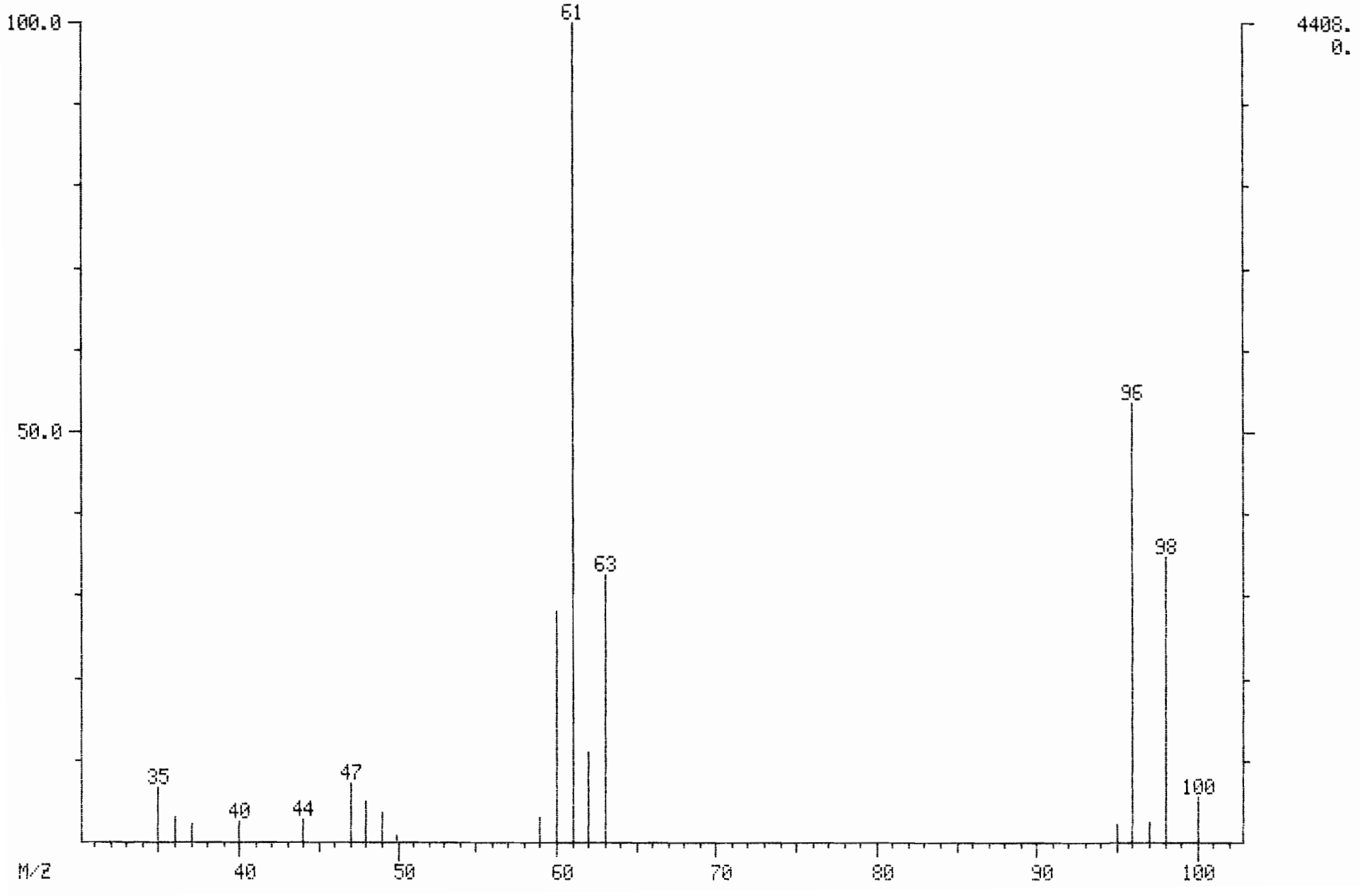
T260

MASS SPECTRUM
12/18/93 4:21:00 + 10:00
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 59 DEG. C

DATA: K8712 #697
CALI: K8712 #3

BASE M/Z: 61
RIC: 13552.

NAME: C057 TRANS-1,2-DICHLOROETHENE

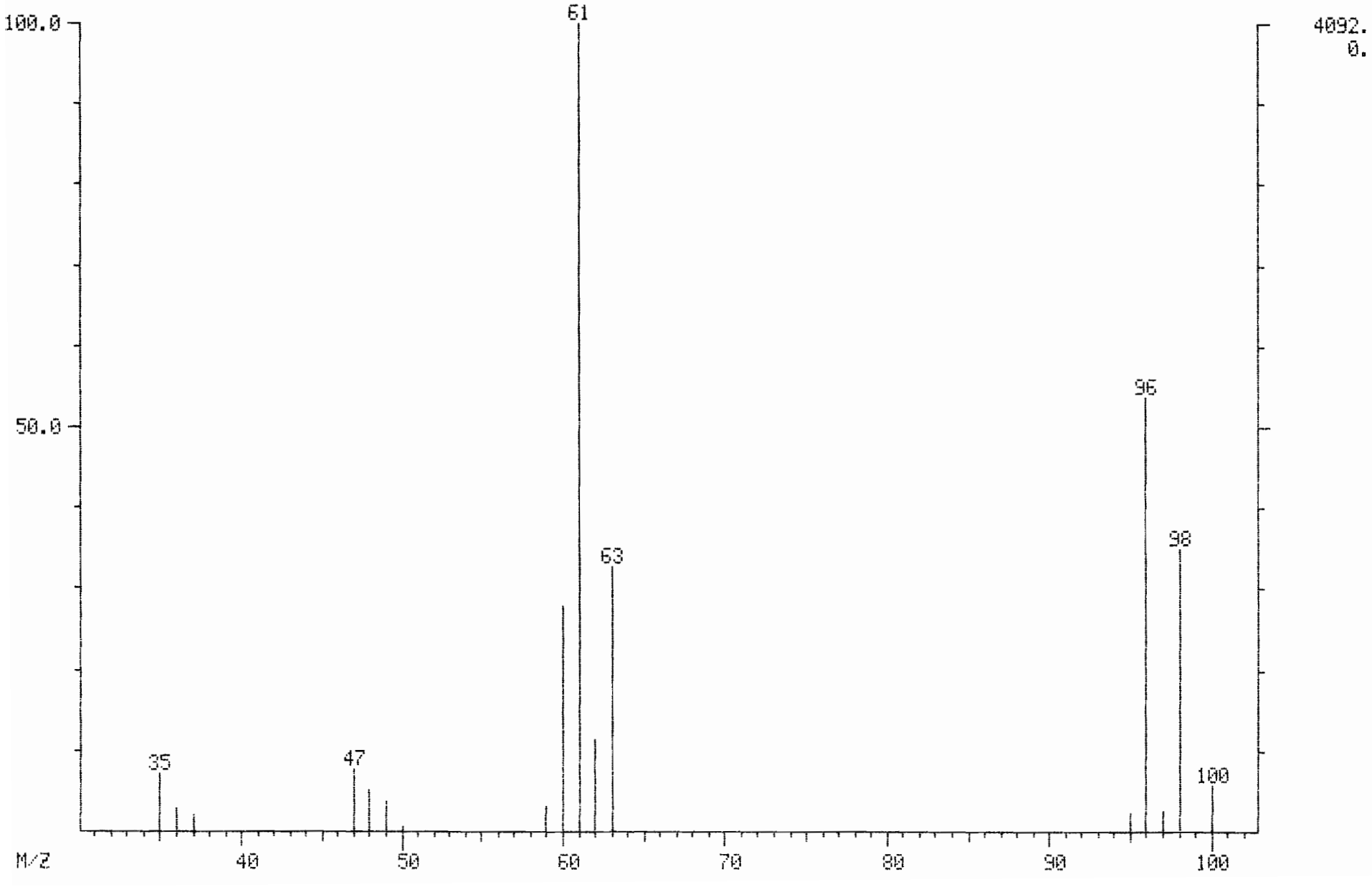


8260

MASS SPECTRUM
12/18/93 4:21:00 + 10:00
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 59 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C057 TRANS-1,2-DICHLOROETHENE

DATA: K8712 #697
CALI: K8712 #3

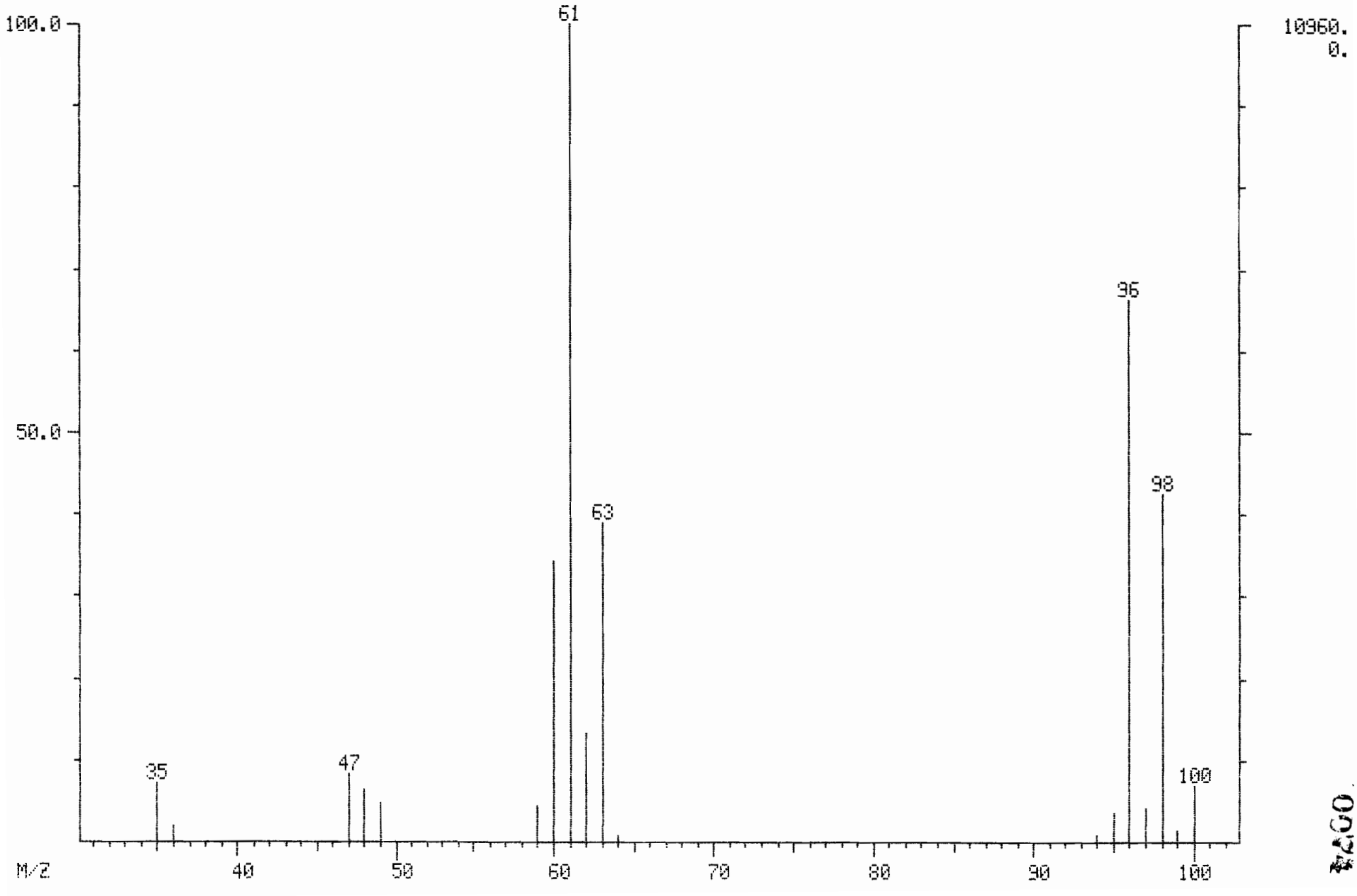
BASE M/Z: 61
RIC: 12384.



MASS SPECTRUM
12/17/93 19:29:00 + 9:59
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-452 DEG. C
NAME: C057 TRANS-1,2-DICHLOROETHENE

DATA: K8696 #695
ENHANCED (S 150 2N 0T)

BASE M/Z: 61
RIC: 37888.



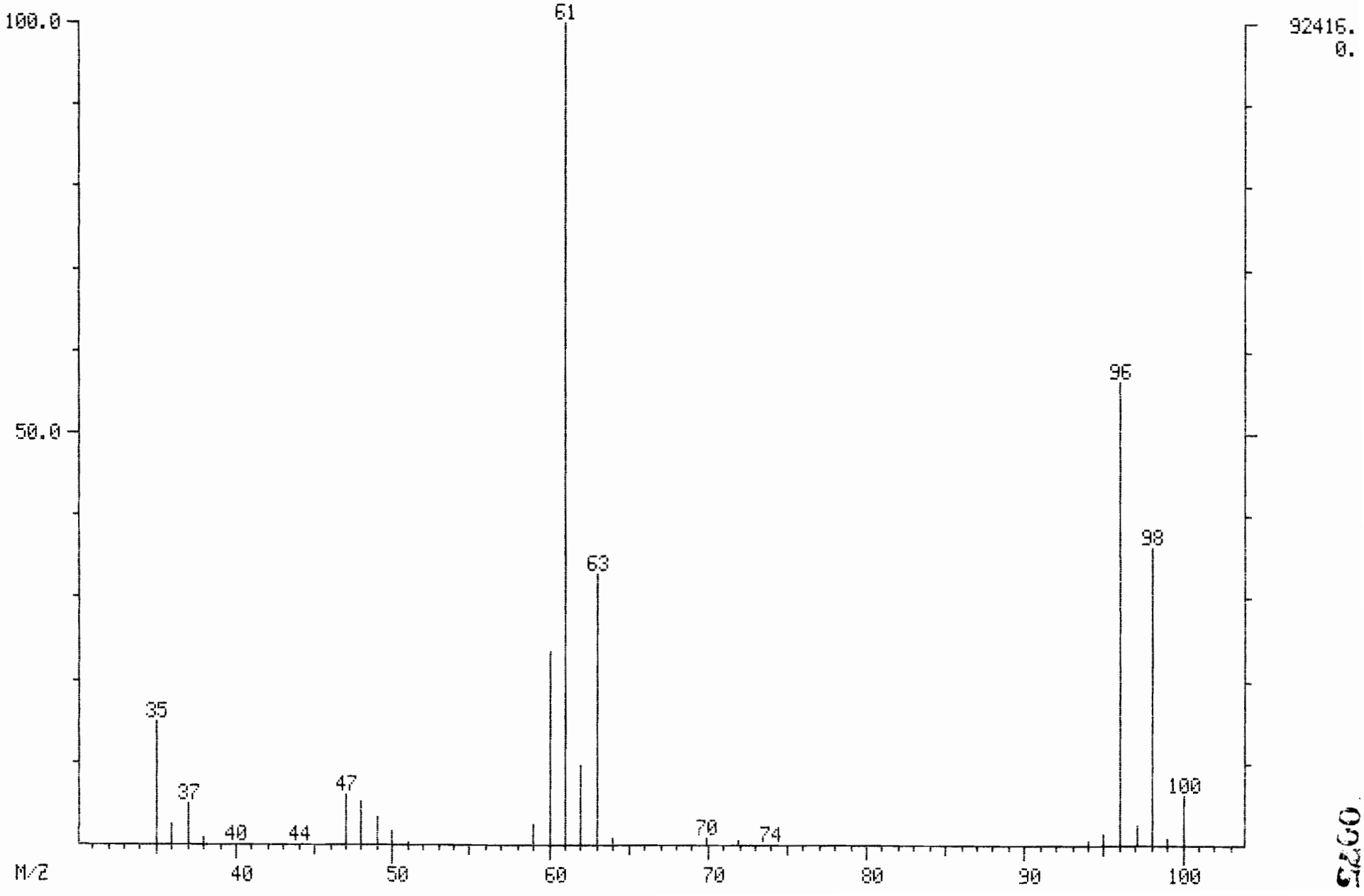
#200

MASS SPECTRUM
12/18/93 4:21:00 + 12:23
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 83 DEG. C

DATA: K8712 #863
CALI: K8712 #3

BASE M/Z: 61
RIC: 290816.

NAME: C056 CIS-1,2-DICHLOROETHENE

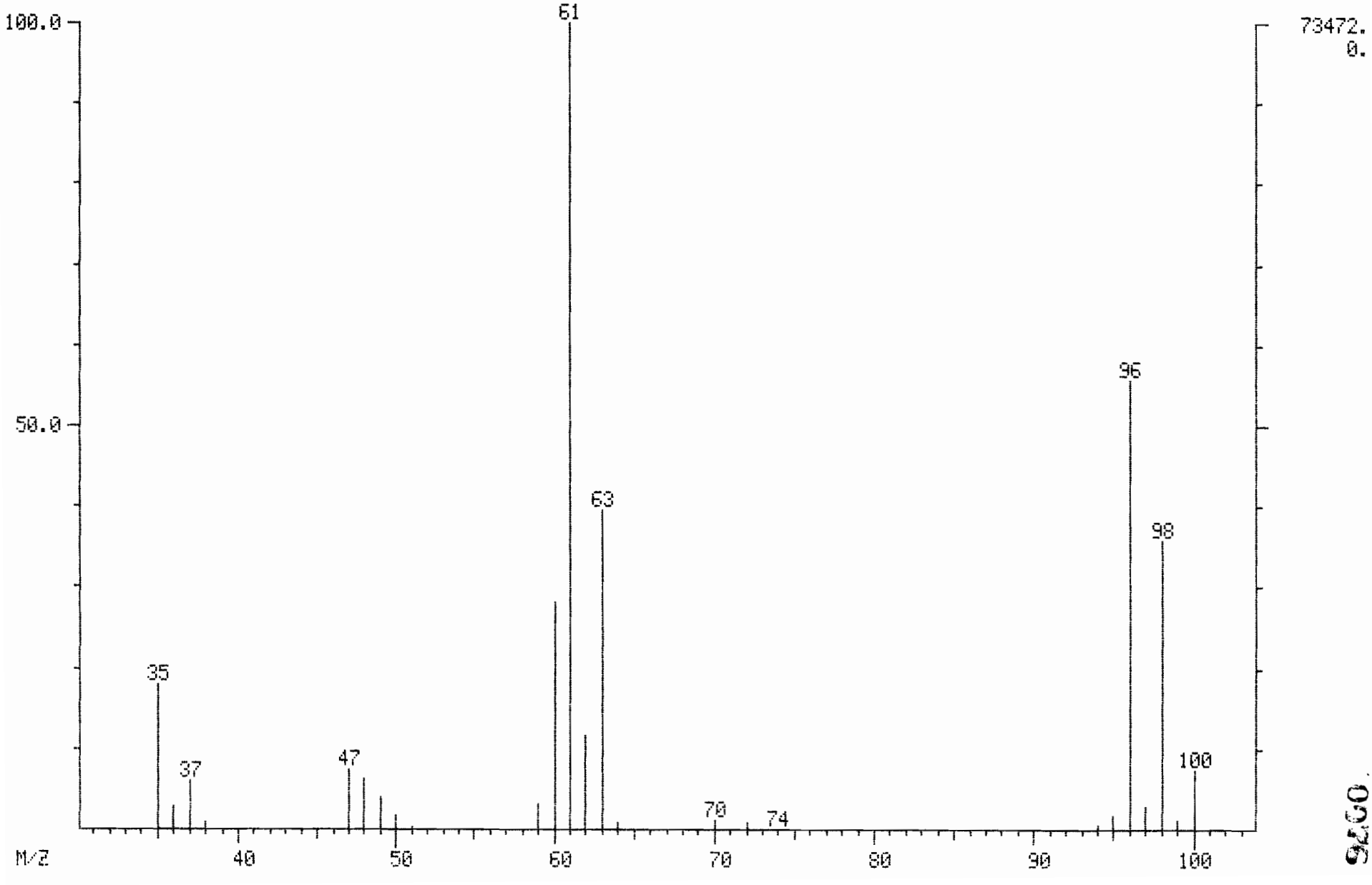


C260

MASS SPECTRUM
12/18/93 4:21:00 + 12:23
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C056 CIS-1,2-DICHLOROETHENE

DATA: K8712 #863
CALI: K8712 #3

BASE M/Z: 61
RIC: 247808.

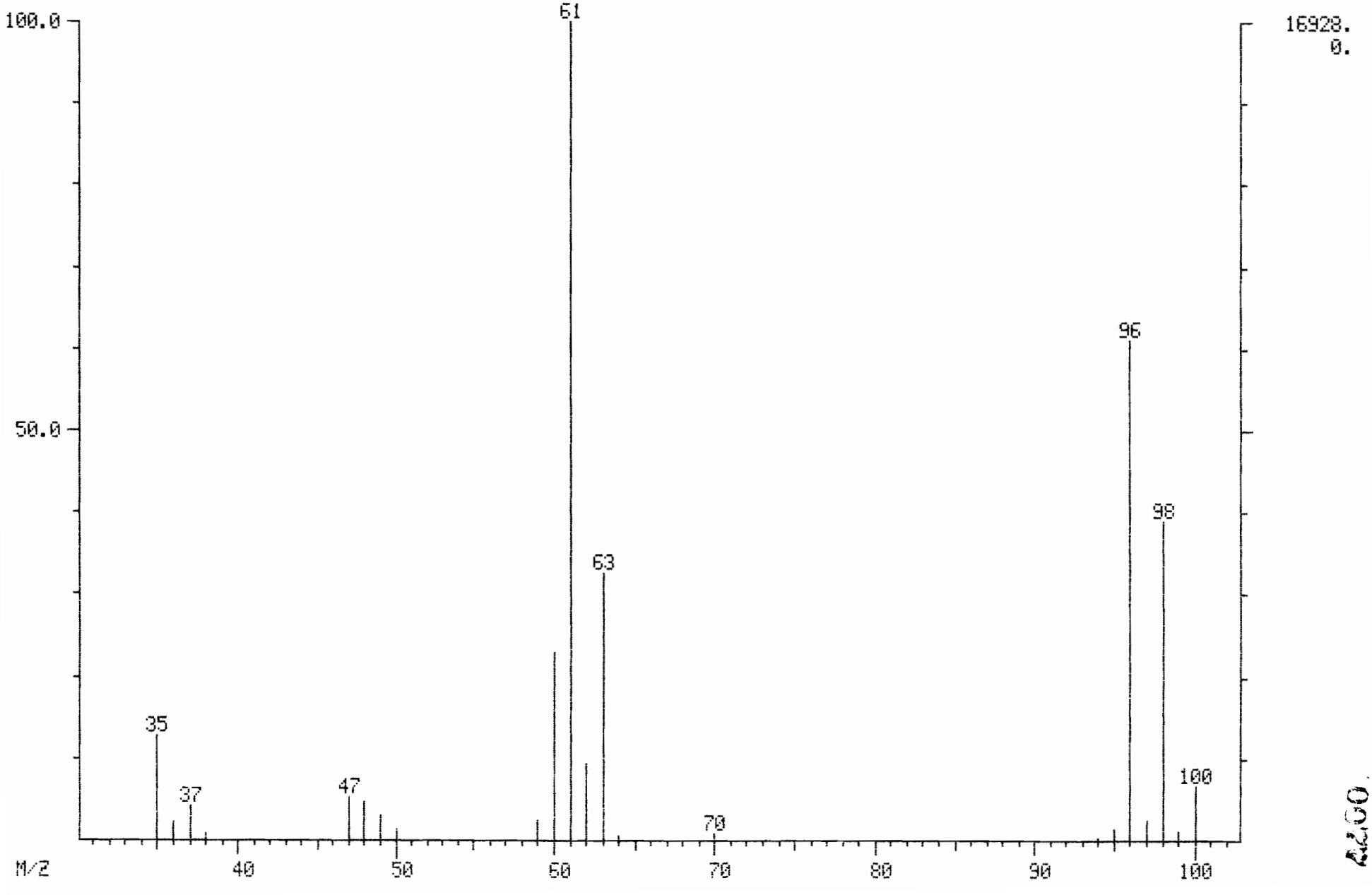


9260.

MASS SPECTRUM
12/17/93 19:29:00 + 12:22
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-428 DEG. C
NAME: C056 CIS-1,2-DICHLOROETHENE

DATA: K8696 #861
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 53440.

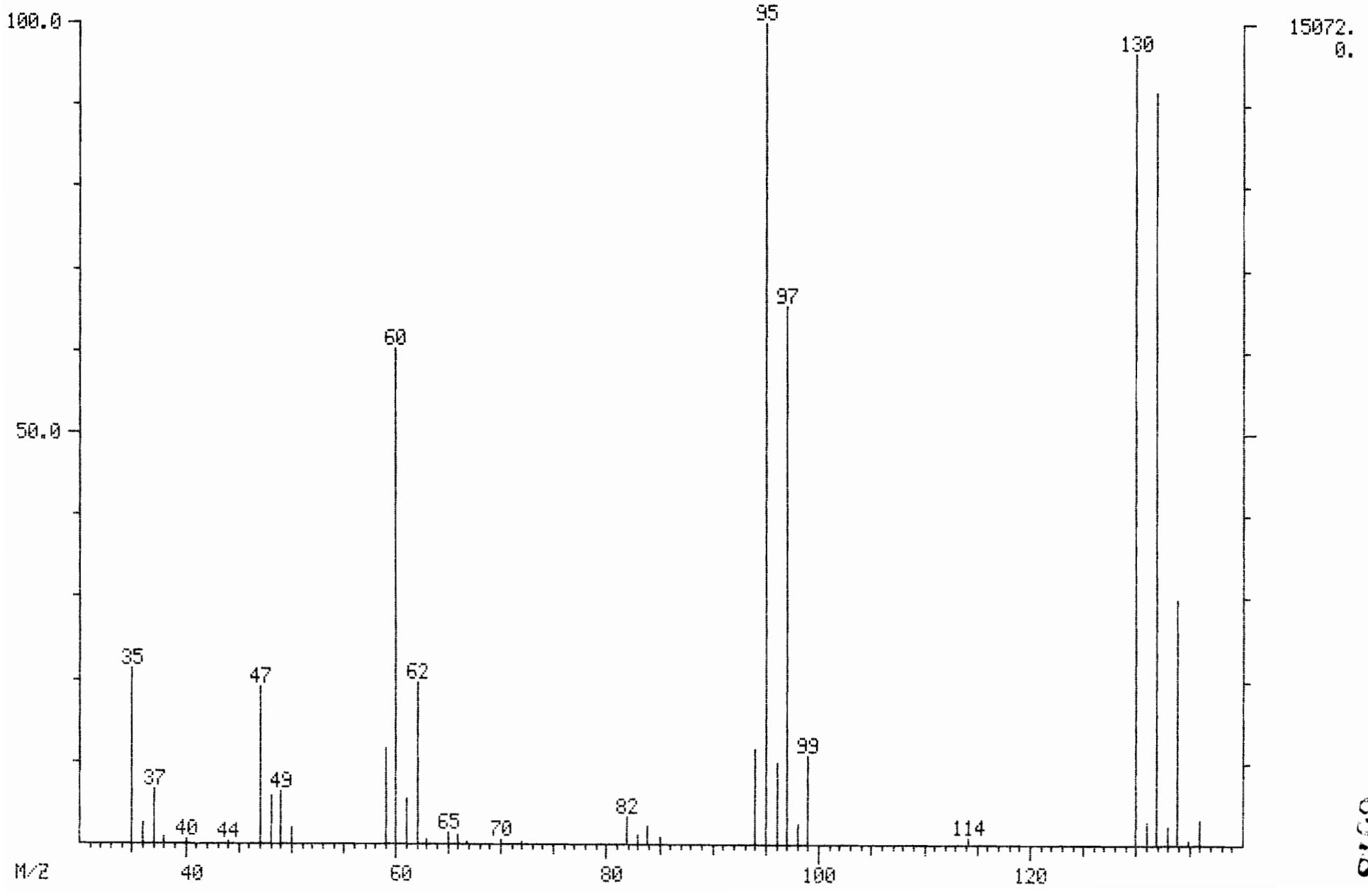


4200.

MASS SPECTRUM
12/18/93 4:21:00 + 15:18
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 112 DEG. C
NAME: C150 TRICHLOROETHENE

DATA: K8712 #1066
CALI: K8712 #3

BASE M/Z: 95
RIC: 90624.

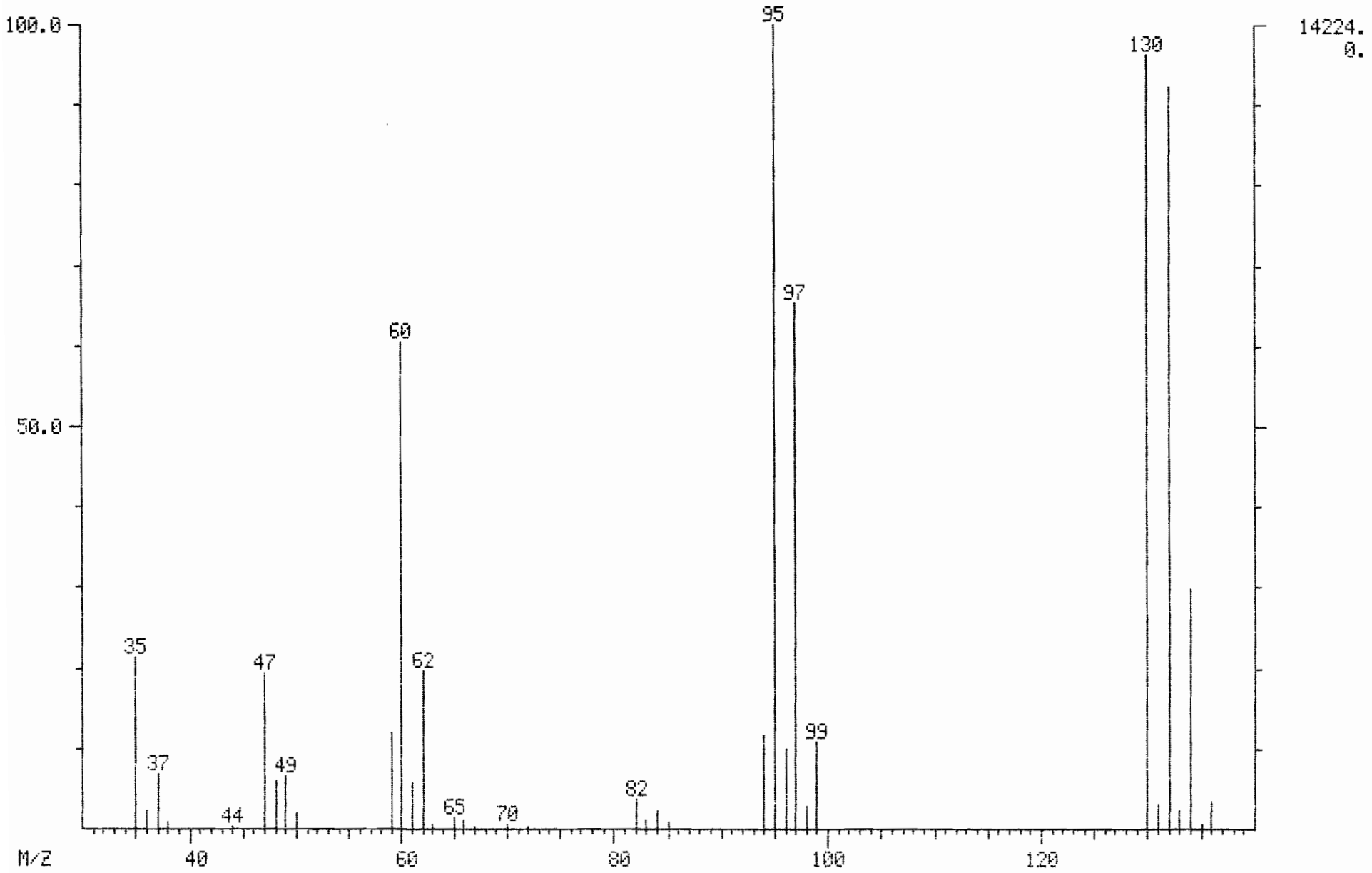


8260.

MASS SPECTRUM
12/18/93 4:21:00 + 15:18
SAMPLE: AS053077 JOB4488
CONDS.: I50K
TEMP: 112 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C150 TRICHLOROETHENE

DATA: K8712 #1066
CALI: K8712 #3

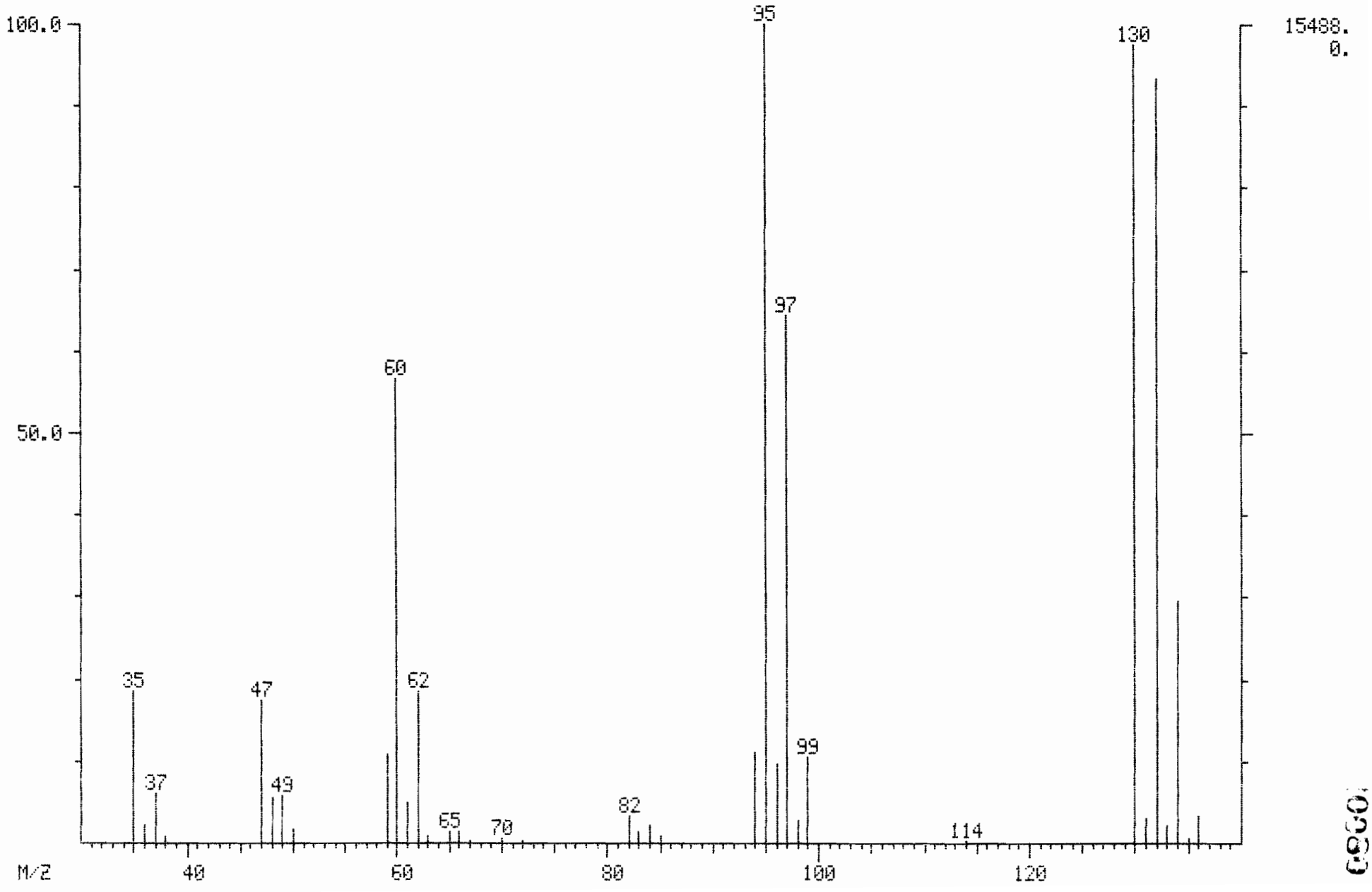
BASE M/Z: 95
RIC: 86016.



6260

MASS SPECTRUM
12/17/93 19:29:00 + 15:17
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-399 DEG. C
NAME: C150 TRICHLOROETHENE

DATA: K8696 #1065 BASE M/Z: 95
ENHANCED (S 15B 2N 0T) RIC: 91520.



6960

INTERNAL STANDARD QUANTITATION REPORT: AMOUNTS BASED ON AREA

Quantitation Report File: K8712

Data: K8712.TI
12/18/93 4:21:00
Sample: AS053077 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	0-00-0	CI10 1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	0-00-0	CI20 D5-CHLOROBENZENE *INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	898	12:53	1	1.000	A BB	272900.	250.000 NG	33.33
2	TOT	1033	14:50	2	1.000	A BB	361154.	250.000 NG	33.33
3	TOT	1367	19:37	3	1.000	A BB	418556.	250.000 NG	33.33

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
184801DL

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053077DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8727

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. ____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	20	U
74-83-9	Bromomethane	20	U
75-01-4	Vinyl Chloride	34	D
75-00-3	Chloroethane	20	U
75-09-2	Methylene Chloride	20	U
67-64-1	Acetone	20	U
75-15-0	Carbon Disulfide	20	U
75-35-4	1,1-Dichloroethene	1	DJ
75-34-3	1,1-Dichloroethane	49	D
540-59-0	1,2-Dichloroethene (total)	340	D
67-66-3	Chloroform	20	U
107-06-2	1,2-Dichloroethane	20	U
78-93-3	2-Butanone	20	U
71-55-6	1,1,1-Trichloroethane	20	U
56-23-5	Carbon Tetrachloride	20	U
75-27-4	Bromodichloromethane	20	U
78-87-5	1,2-Dichloropropane	20	U
10061-01-5	cis-1,3-dichloropropene	20	U
79-01-6	Trichloroethene	52	D
124-48-1	Dibromochloromethane	20	U
79-00-5	1,1,2-Trichloroethane	20	U
71-43-2	Benzene	20	U
10061-02-6	trans-1,3-dichloropropene	20	U
75-25-2	Bromoform	20	U
108-10-1	4-Methyl-2-Pentanone	20	U
591-78-6	2-Hexanone	20	U
127-18-4	Tetrachloroethene	20	U
79-34-5	1,1,2,2-Tetrachloroethane	20	U
108-88-3	Toluene	20	U
108-90-7	Chlorobenzene	20	U
100-41-4	Ethylbenzene	20	U
100-42-5	Styrene	20	U
1330-20-7	Total Xylenes	20	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

184801DL

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053077DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8727

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. ____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 2.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

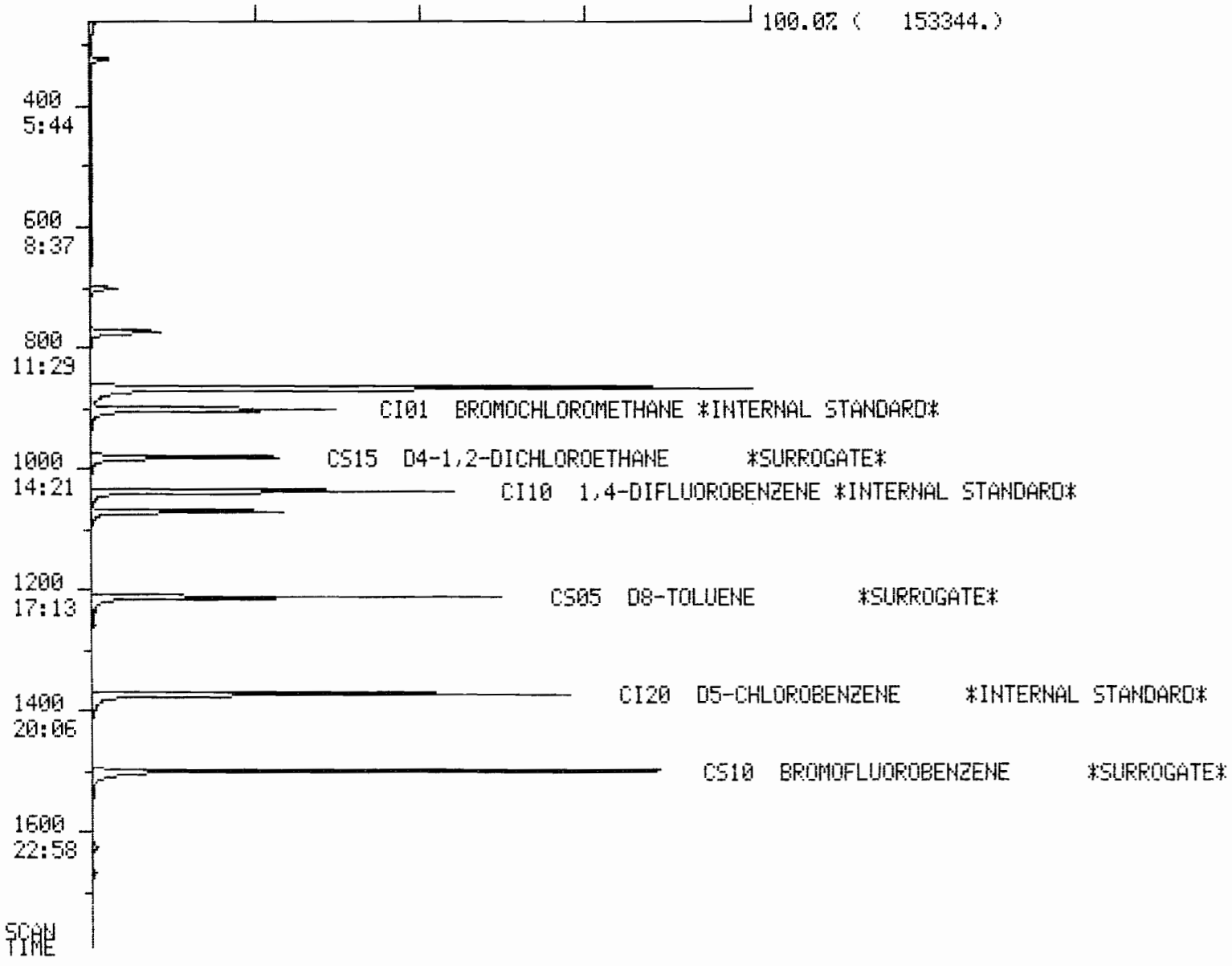
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

DATA FROM FILE: K8727 SCANS 260 TO 1790 ACQUIRED: 12/18/93 15:00:00
CALI: K8727 #3

SAMPLE: AS053077DL JOB4488
CONDS.: I50K



2660

Quantitation Report File: K8727

Data: K8727.TI
Y18/93 15:00:00
mple: AS053077DL JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
15	C050	1,1-DICHLOROETHANE
16	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
41	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

SS
ED
12/20/93
MY
TIC
RTE

No	Name
48	C246 M,P-XYLENE
49	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	899	12:54	1	1.000	A BB	37090.	250.000	NG	9.53
2	114	1035	14:51	2	1.000	A BB	142412.	250.000	NG	9.53
3	117	1371	19:41	3	1.000	A BB	130394.	250.000	NG	9.53
4	65	979	14:03	1	1.089	A BB	84927.	258.580	NG	9.85
5	98	1210	17:22	3	0.883	A BB	136555.	248.928	NG	9.49
6	95	1497	21:29	3	1.092	A BB	121511.	256.389	NG	9.77
7	NOT FOUND									
8	NOT FOUND									
9	62	320	4:36	1	0.356	A BB	14230.	84.427	NG	3.22
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	96	~~550~~ 549	7:54	1	0.612	A BB	450.	3.118	NG	0.12
15	63	772	11:05	1	0.859	A BB	51411.	122.446	NG	4.67
16	96	699	10:02	1	0.778	A BB	6613.	37.088	NG	1.41
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	96	864	12:24	1	0.961	A BB	161868.	~~731.396~~ 843.075	NG	27.87
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	130	1068	15:20	2	1.032	A BB	34543.	128.865	NG	4.91
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	NOT FOUND									
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									
48	NOT FOUND									
49	NOT FOUND									
50	NOT FOUND									

6613.
1684 31.

1,2-Dichloroethene (total) = #16 + #24

843.075 NG

RF = 1.347

MTM 12/28/93

MTM 12/28/93

Quantitation Report File: K8727

Data: K8727.TI
/18/93 15:00:00
mple: AS053077DL JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

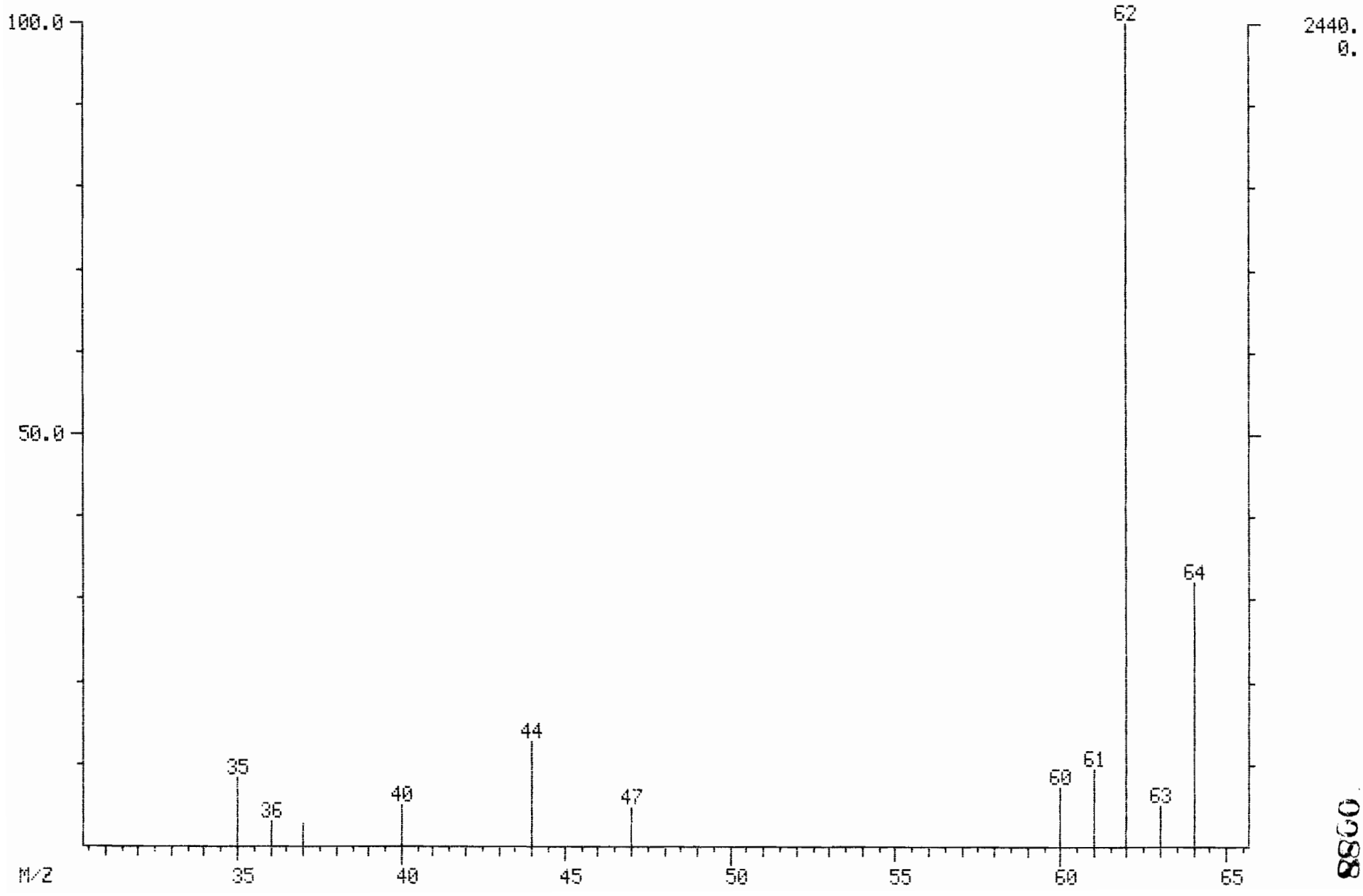
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	146	1666	23:55	3	1.215	A BB	1474.	3.142 NG	0.12

Lot Reviews

MASS SPECTRUM
12/18/93 15:00:00 + 4:36
SAMPLE: AS053077DL JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
NAME: C020 VINYL CHLORIDE

DATA: K8727 #320
CALI: K8727 #3

BASE M/Z: 62
RIC: 4632.

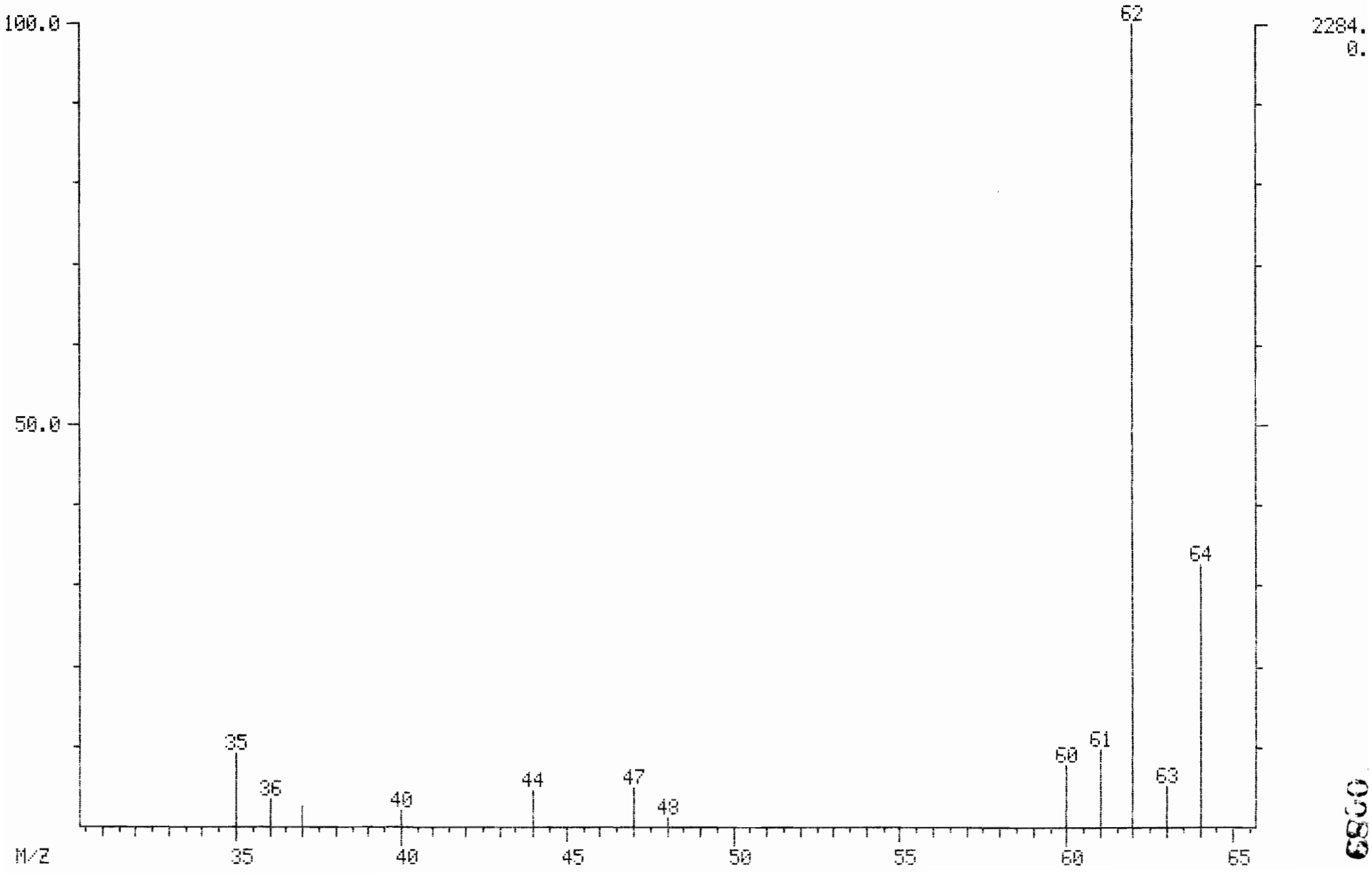


8860

MASS SPECTRUM
12/18/93 15:00:00 + 4:36
SAMPLE: AS053077DL JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C020 VINYL CHLORIDE

DATA: K8727 #320
CALI: K8727 #3

BASE M/Z: 62
RIC: 4168.

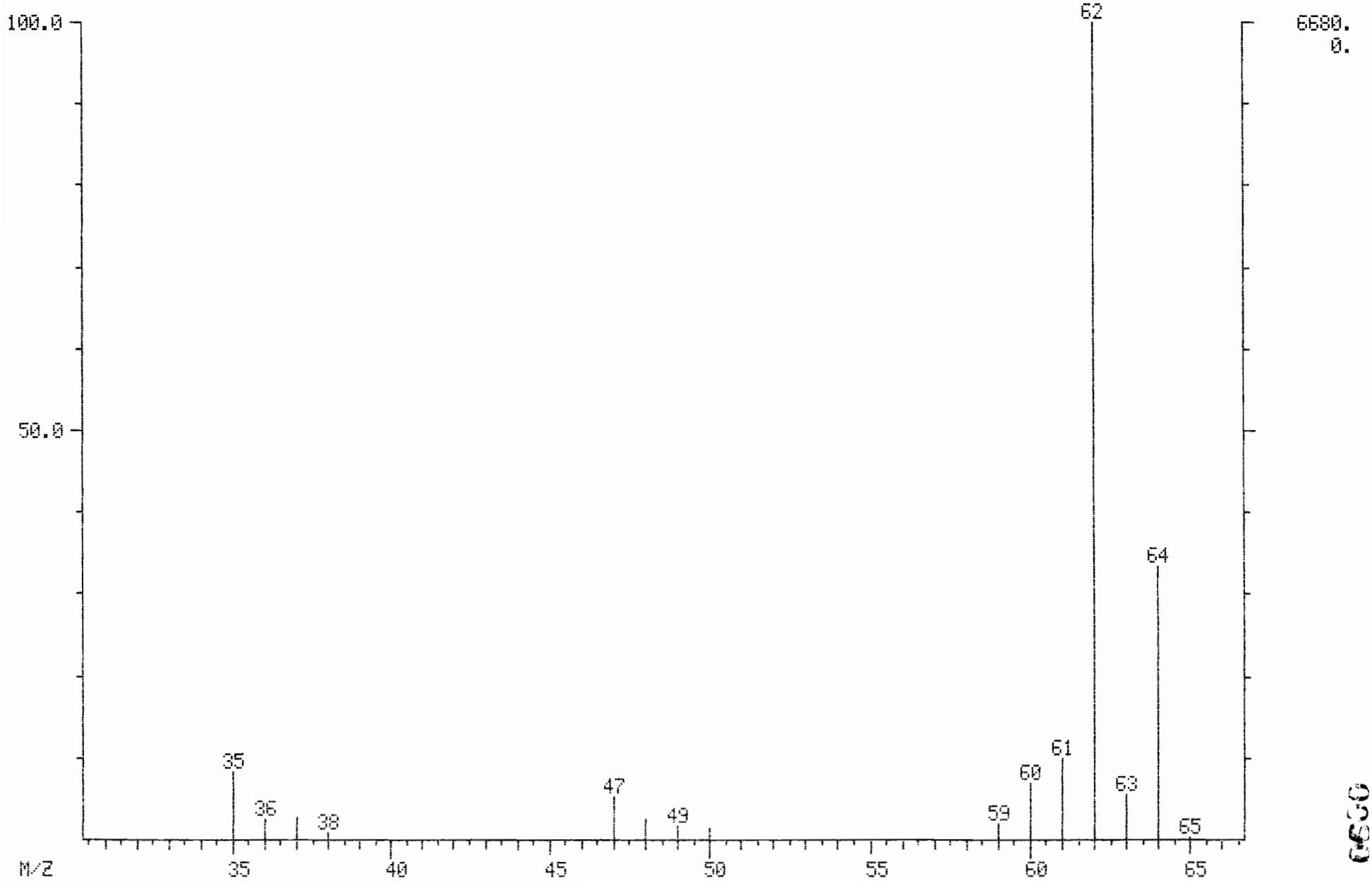


6850

MASS SPECTRUM
12/18/93 13:17:00 + 4:33
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C
NAME: C020 VINYL CHLORIDE

DATA: K8724 #317
ENHANCED (S 15B 2N 0T)

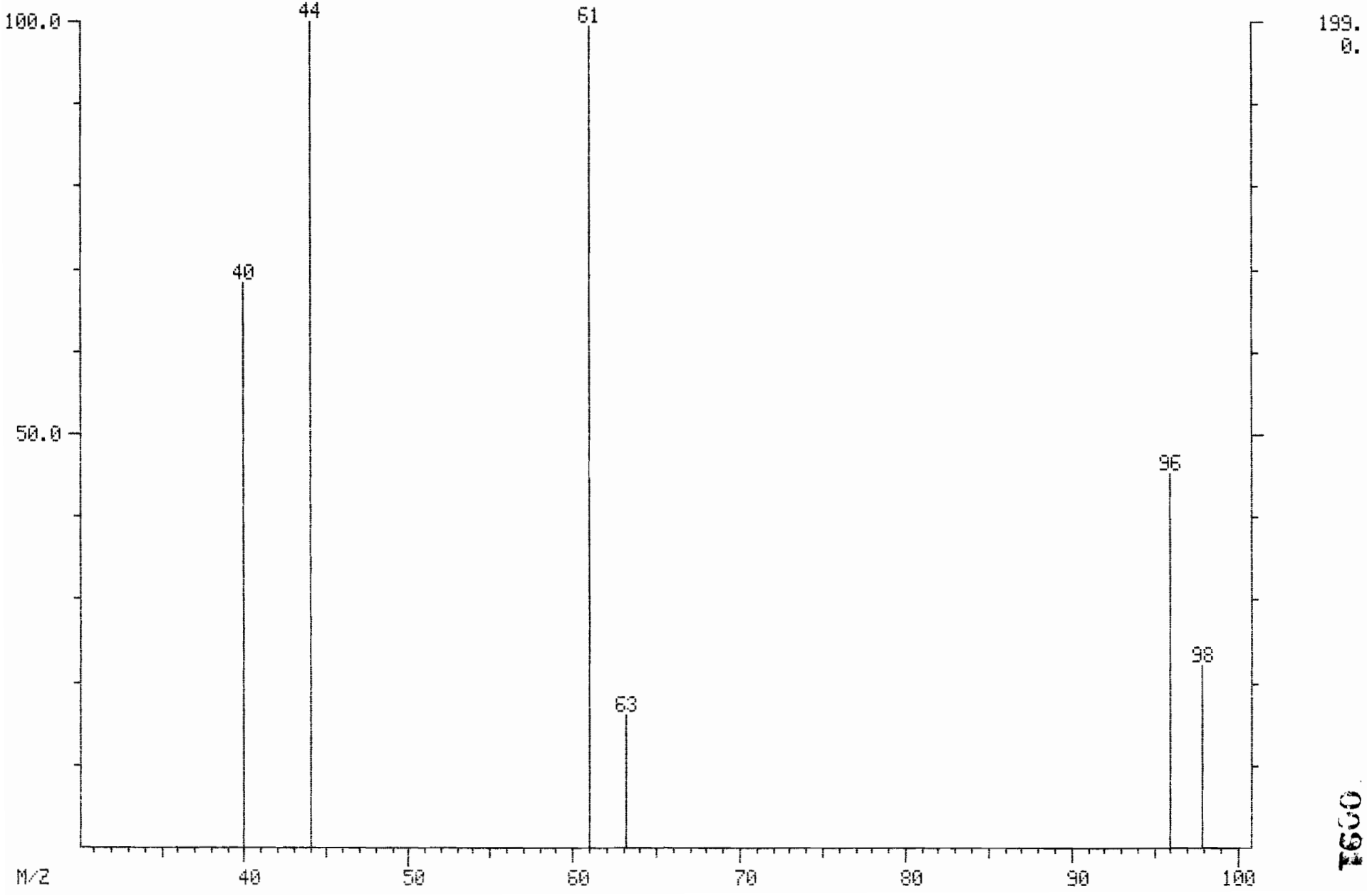
BASE M/Z: 62
RIC: 12224.



MASS SPECTRUM
12/18/93 15:00:00 + 7:53
SAMPLE: AS053077DL JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
NAME: C045 1,1-DICHLOROETHENE

DATA: K8727 #549
CALI: K8727 #3

BASE M/Z: 44
RIC: 699.

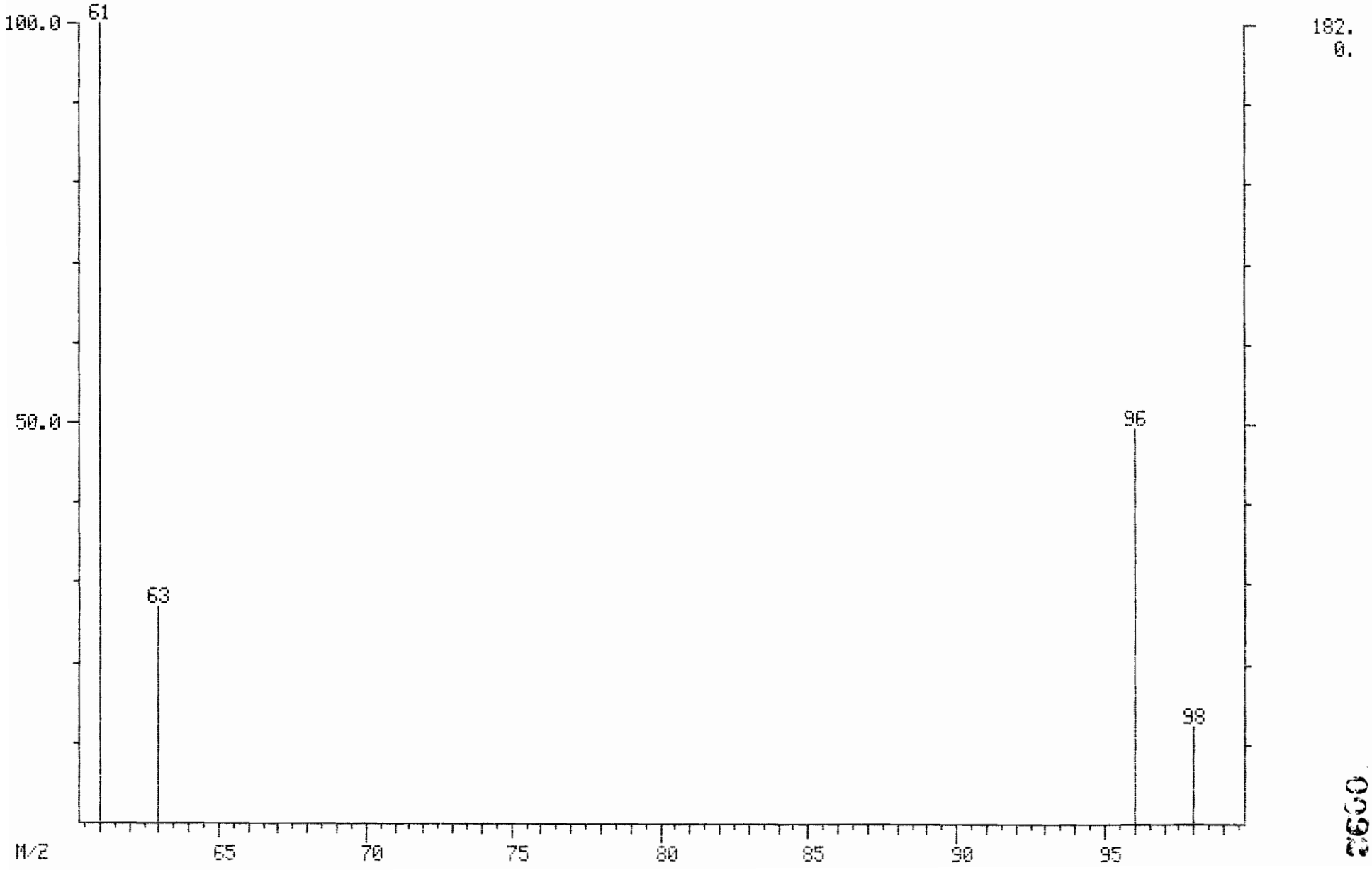


F660

MASS SPECTRUM
12/18/93 15:00:00 + 7:53
SAMPLE: AS053077DL JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C045 1,1-DICHLOROETHENE

DATA: K8727 #549
CALI: K8727 #3

BASE M/Z: 61
RIC: 343.

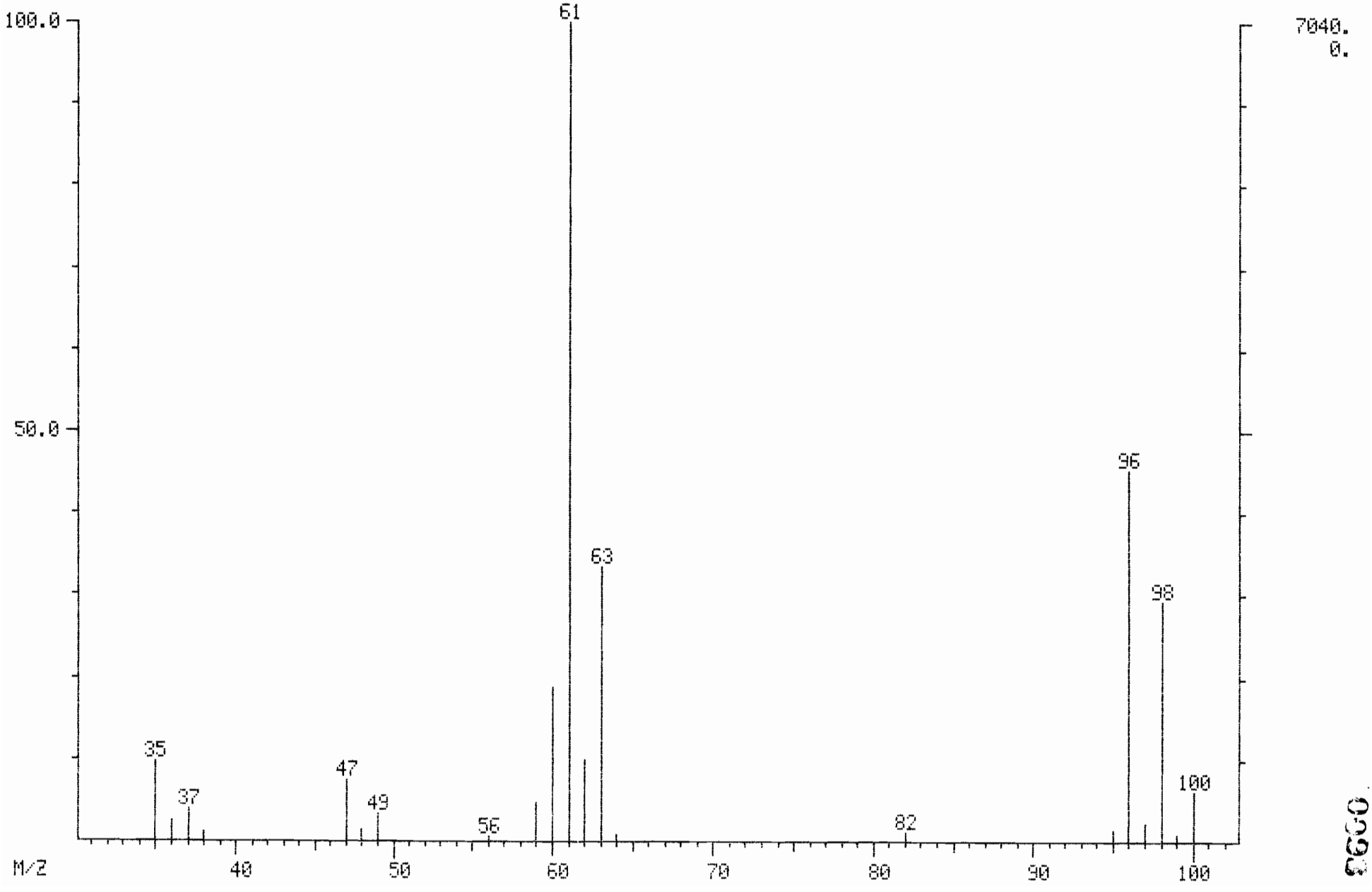


2660

MASS SPECTRUM
12/18/93 13:17:00 + 7:51
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C
NAME: C045 1,1-DICHLOROETHENE

DATA: K8724 #547
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 19968.

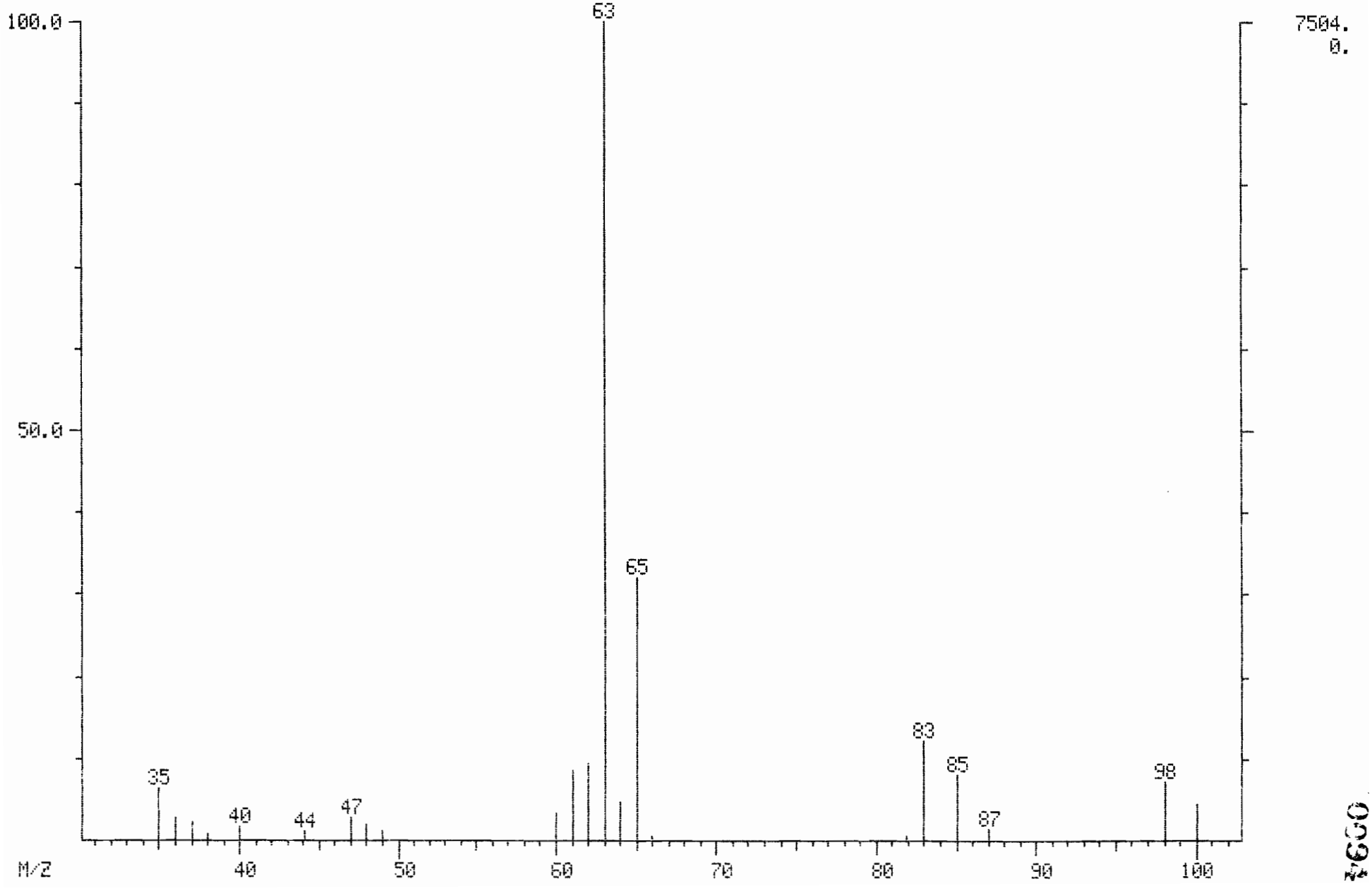


3660

MASS SPECTRUM
12/18/93 15:00:00 + 11:05
SAMPLE: AS053077DL JOB4488
CONDS.: I50K
TEMP: 70 DEG. C
NAME: C050 1,1-DICHLOROETHANE

DATA: K8727 #772
CALI: K8727 #3

BASE M/Z: 63
RIC: 16016.

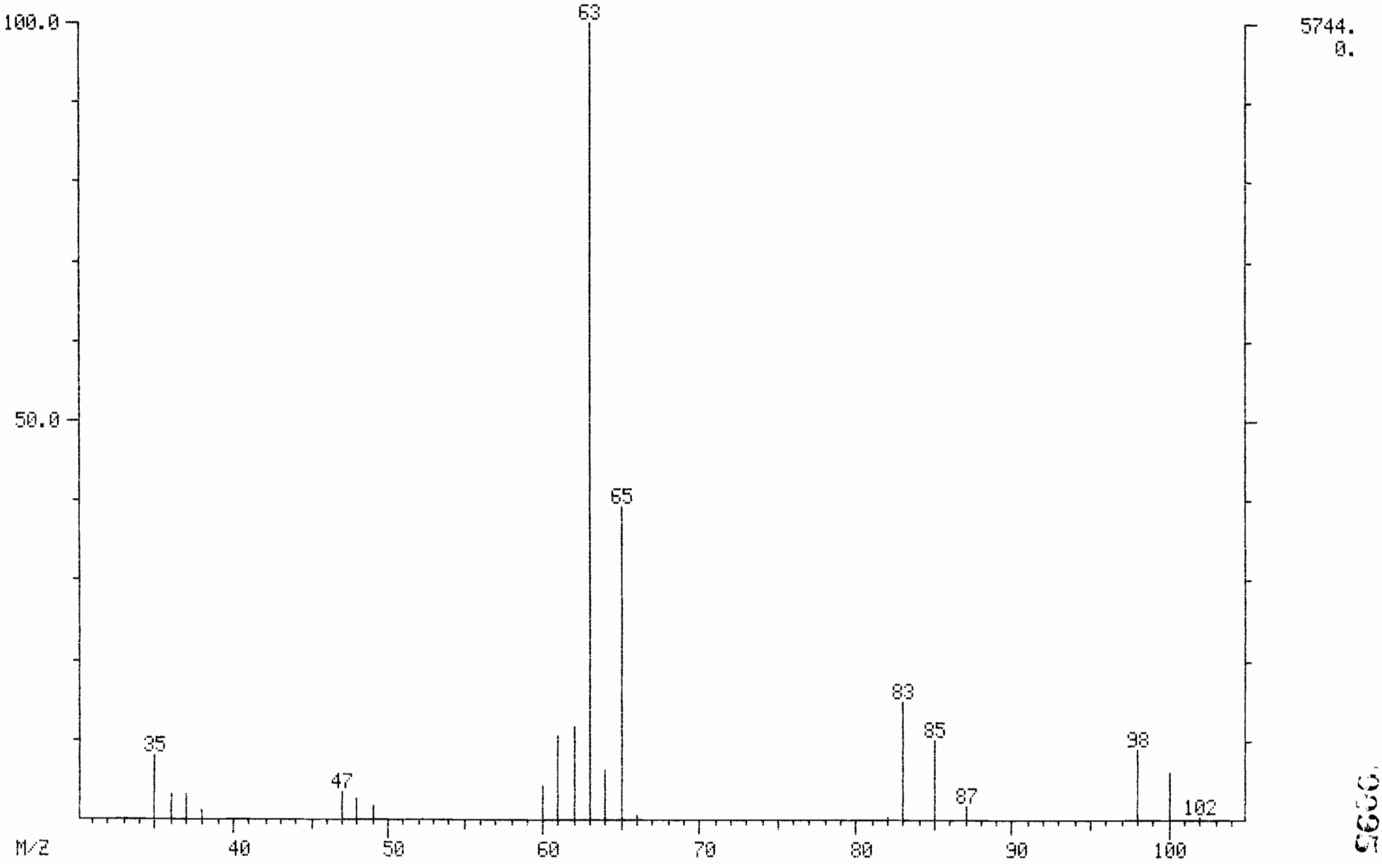


2660

MASS SPECTRUM
12/18/93 15:00:00 + 11:05
SAMPLE: A5053077DL JOB4488
CONDS.: I50K
TEMP: 70 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C050 1,1-DICHLOROETHANE

DATA: K8727 #772
CALI: K8727 #3

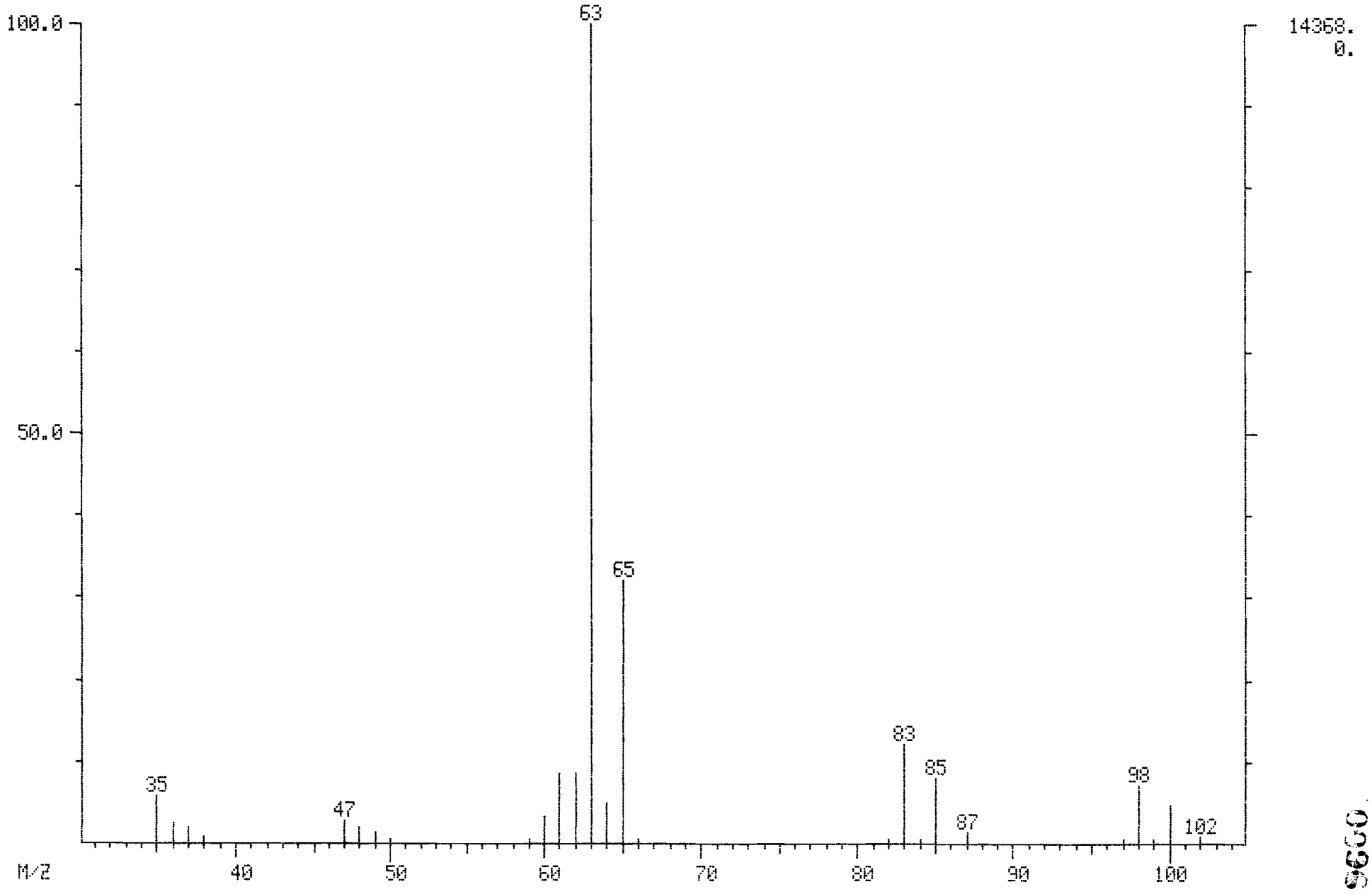
BASE M/Z: 63
RIC: 13632.



MASS SPECTRUM
12/18/93 13:17:00 + 11:04
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-441 DEG. C
NAME: C050 1,1-DICHLOROETHANE

DATA: K8724 #771
ENHANCED (S 15B 2N 0T)

BASE M/Z: 63
RIC: 30528.



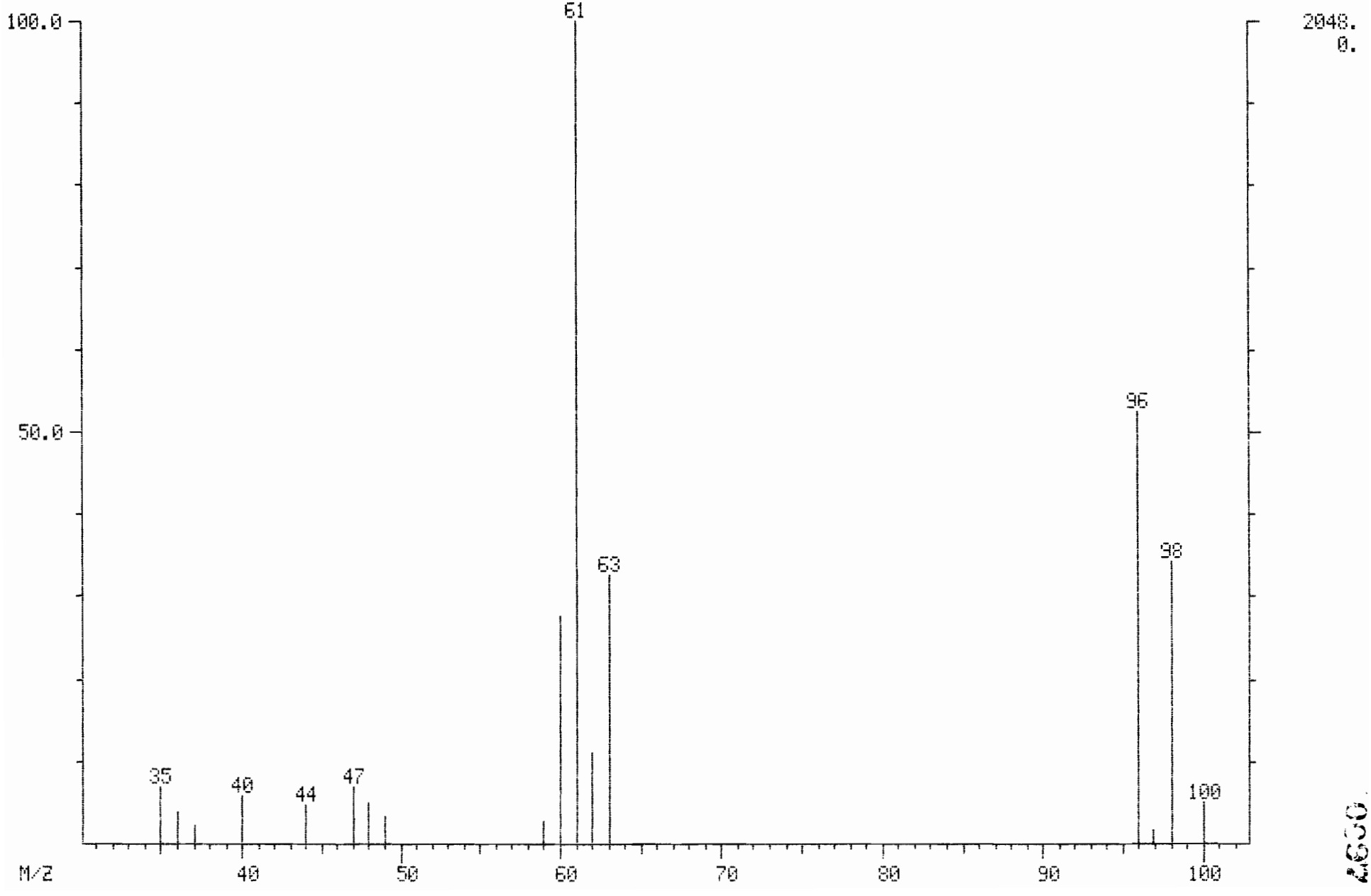
9660

MASS SPECTRUM
12/18/93 15:00:00 + 10:02
SAMPLE: AS053077DL J084488
CONDS.: I50K
TEMP: 60 DEG. C

DATA: K8727 #699
CALI: K8727 #3

BASE M/Z: 61
RIC: 6272.

NAME: C057 TRANS-1,2-DICHLOROETHENE

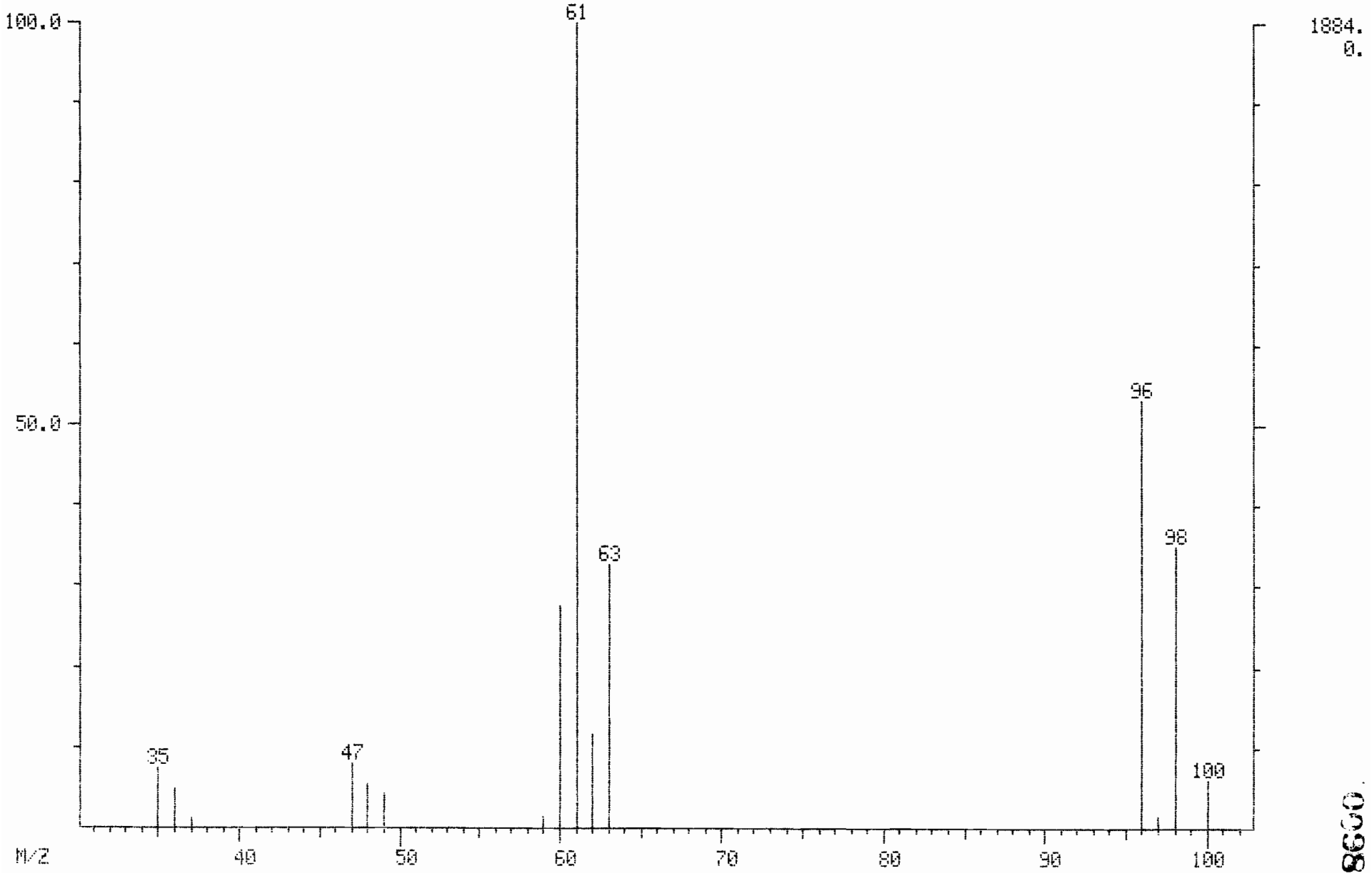


4650

MASS SPECTRUM
12/18/93 15:00:00 + 10:02
SAMPLE: AS053077DL JOB4488
CONDS.: I50K
TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C057 TRANS-1,2-DICHLOROETHENE

DATA: K8727 #699
CALI: K8727 #3

BASE M/Z: 61
RIC: 5656.



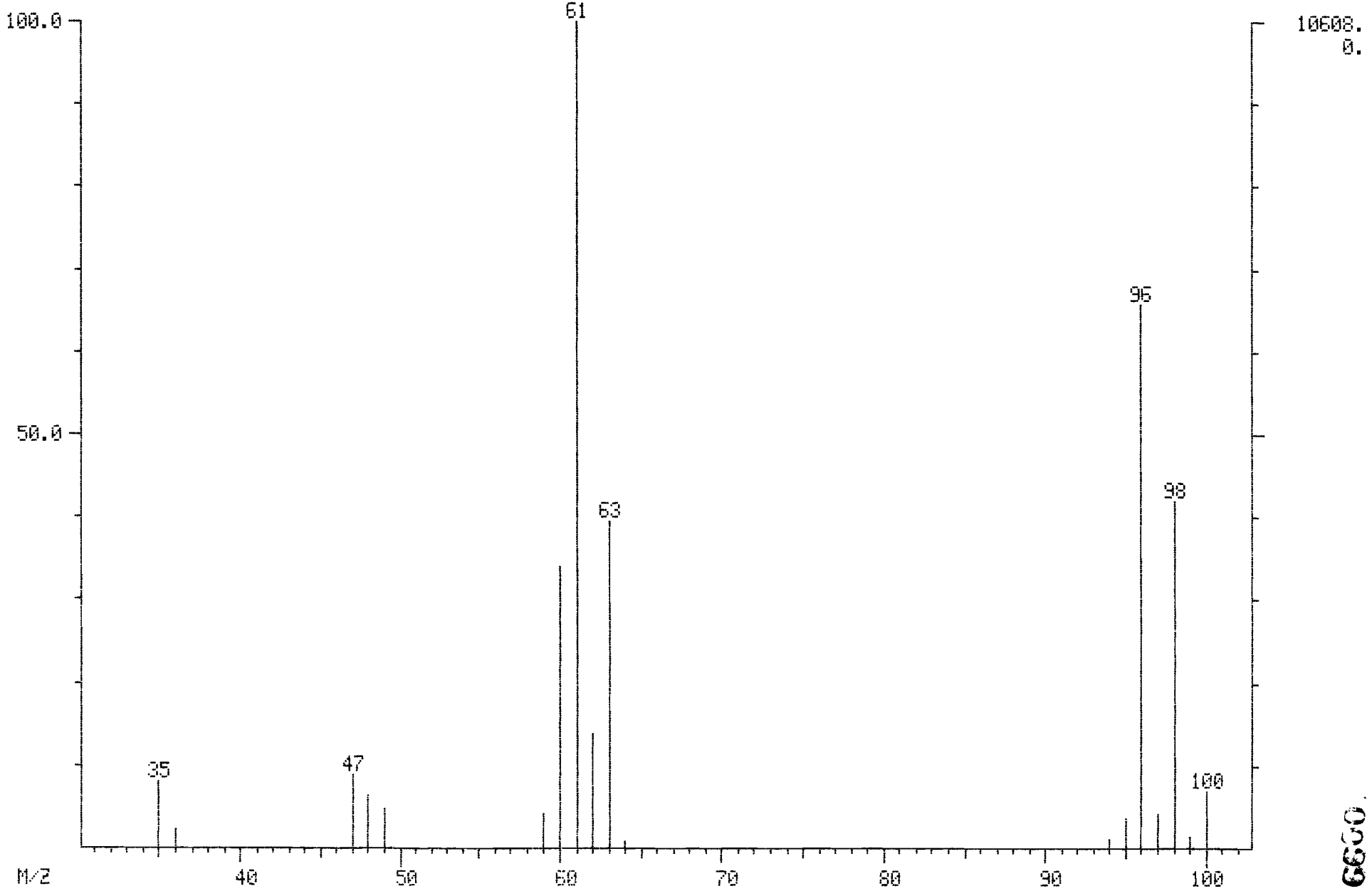
8660

MASS SPECTRUM
12/18/93 13:17:00 + 10:02
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-452 DEG. C

DATA: K8724 #699
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 36864.

NAME: C057 TRANS-1,2-DICHLOROETHENE



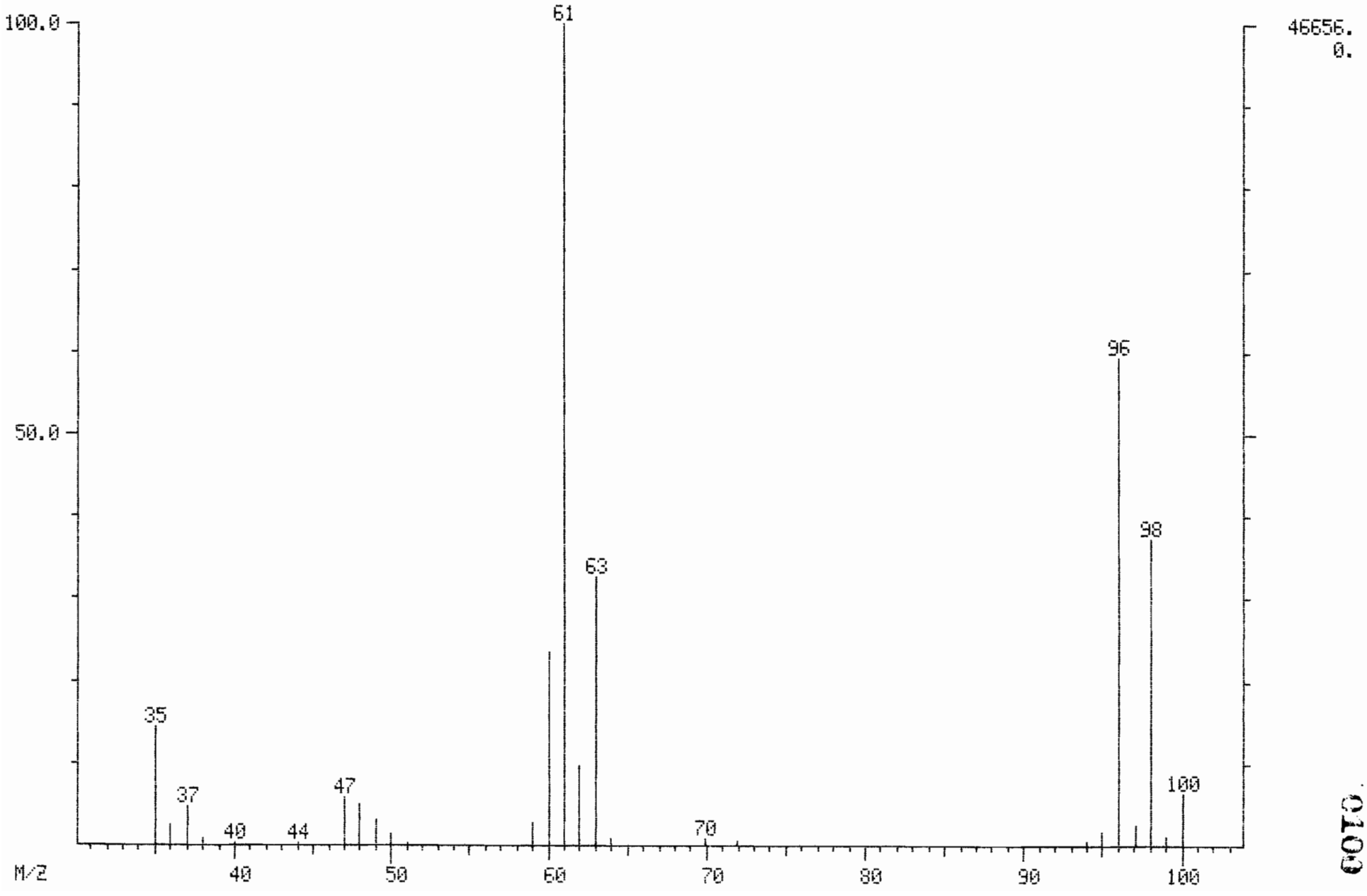
6600

MASS SPECTRUM
12/18/93 15:00:00 + 12:24
SAMPLE: AS053077DL JOB4488
CONDS.: I50K
TEMP: 83 DEG. C

DATA: K8727 #864
CALI: K8727 #3

BASE M/Z: 61
RIC: 148224.

NAME: C056 CIS-1,2-DICHLOROETHENE

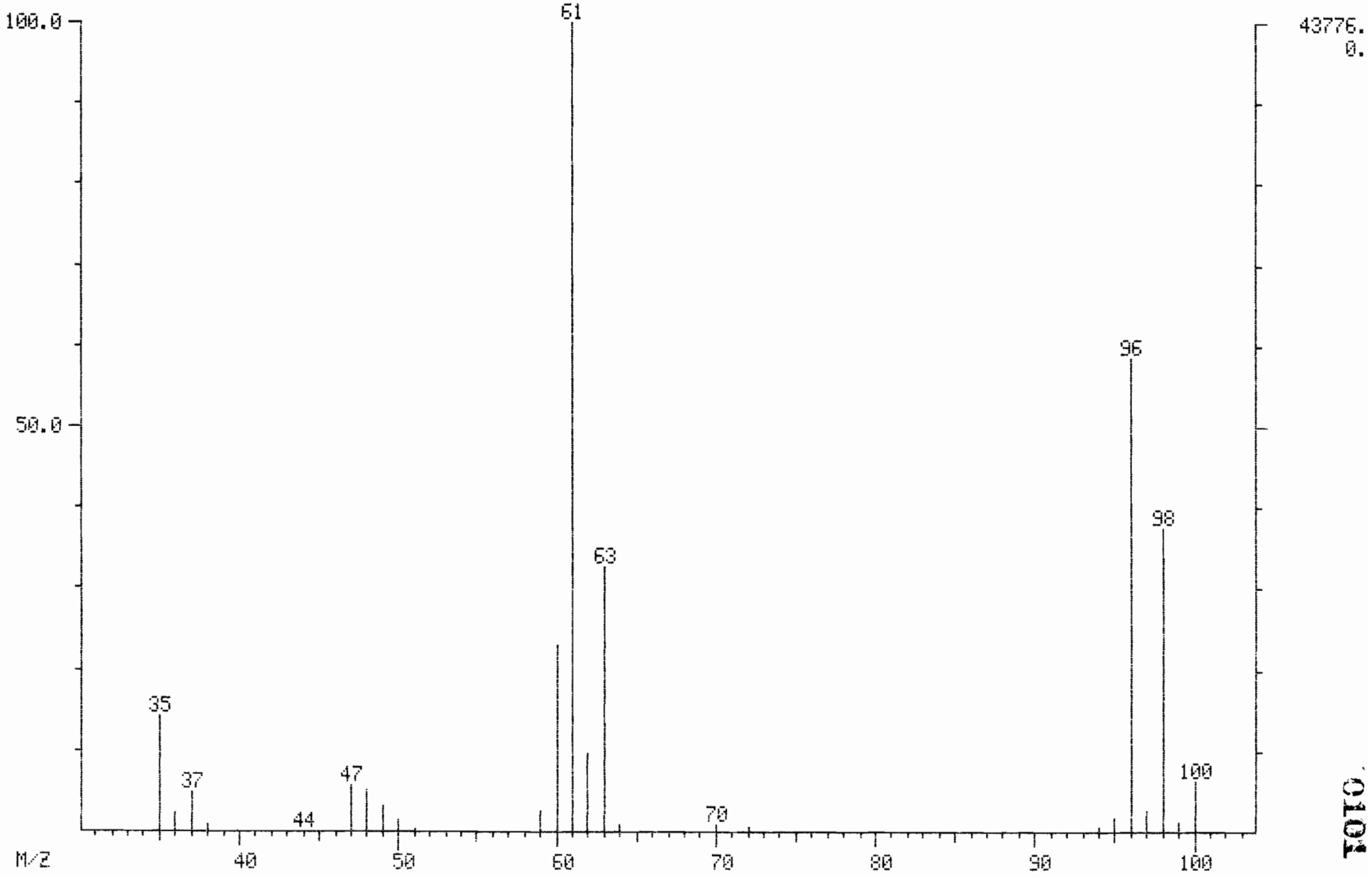


0100

MASS SPECTRUM
12/18/93 15:00:00 + 12:24
SAMPLE: AS053077DL J084488
CONDS.: I50K
TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C056 CIS-1,2-DICHLOROETHENE

DATA: K8727 #864
CALI: K8727 #3

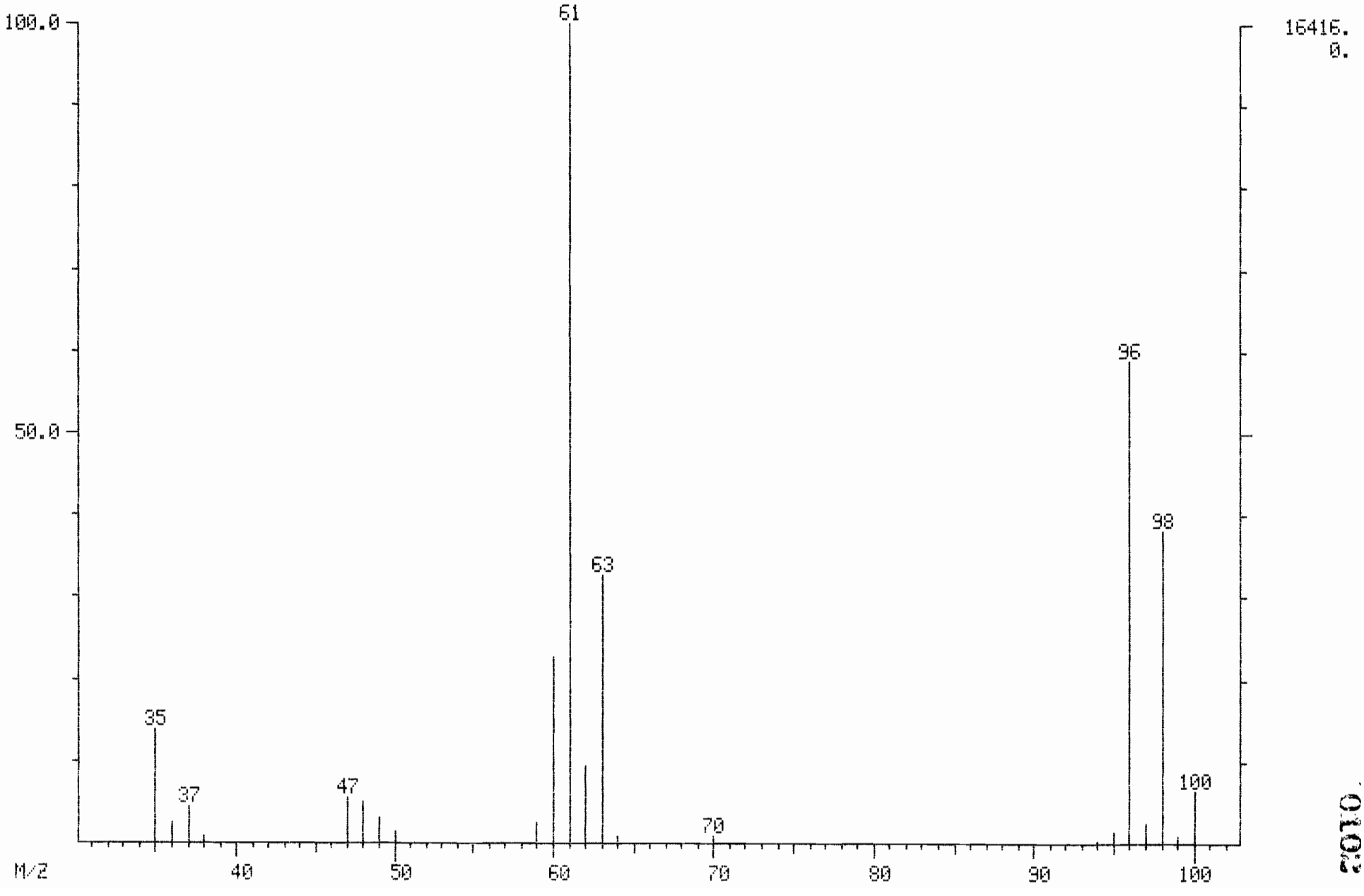
BASE M/Z: 61
RIC: 138496.



MASS SPECTRUM
12/18/93 13:17:00 + 12:25
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-428 DEG. C
NAME: C056 CIS-1,2-DICHLOROETHENE

DATA: K8724 #865
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 51456.



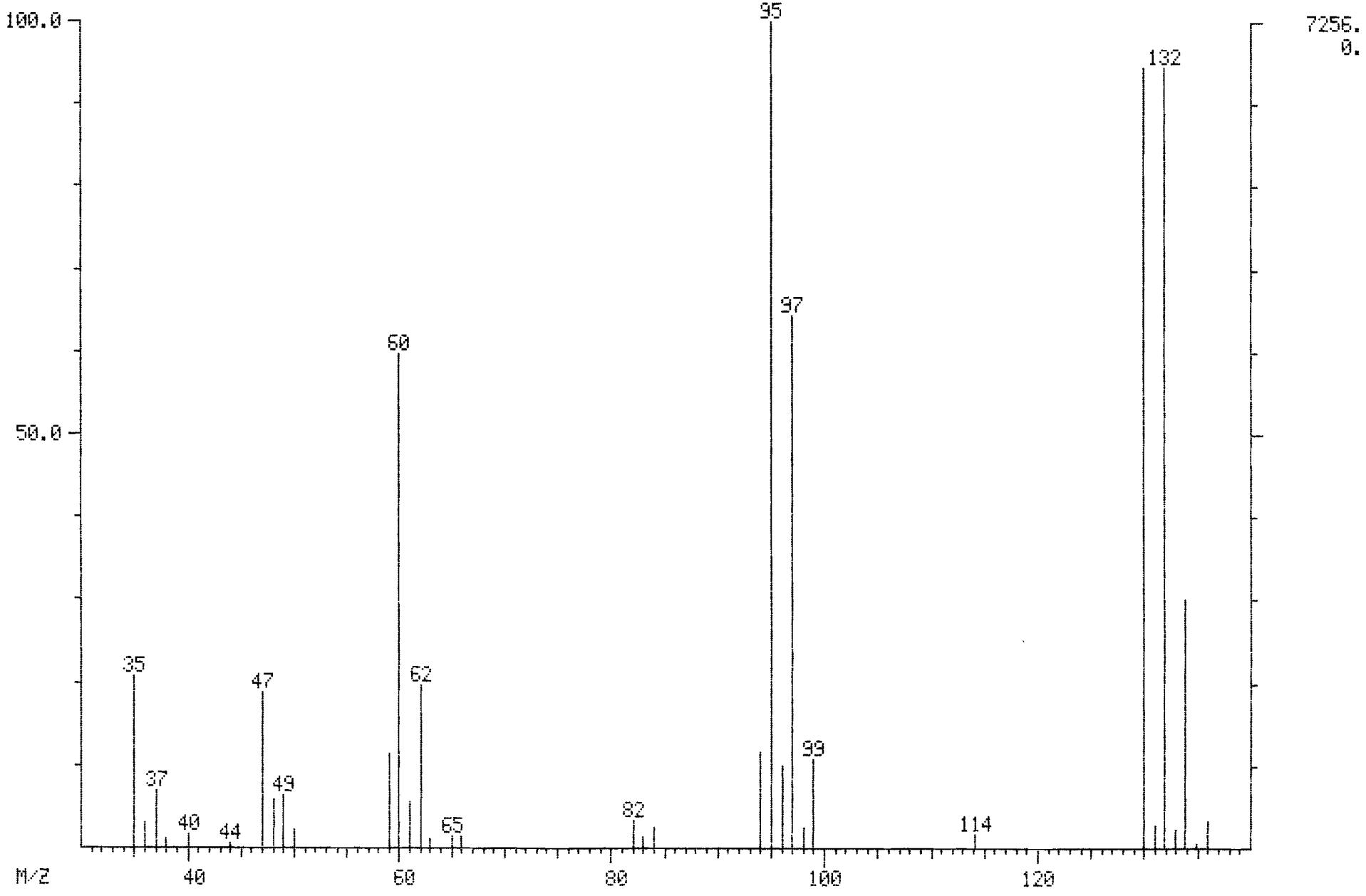
2010.

MASS SPECTRUM
12/18/93 15:00:00 + 15:20
SAMPLE: AS053077DL JOB4488
CONDS.: I50K
TEMP: 112 DEG. C

DATA: K8727 #1068
CALI: K8727 #3

BASE M/Z: 95
RIC: 43776.

NAME: C150 TRICHLOROETHENE

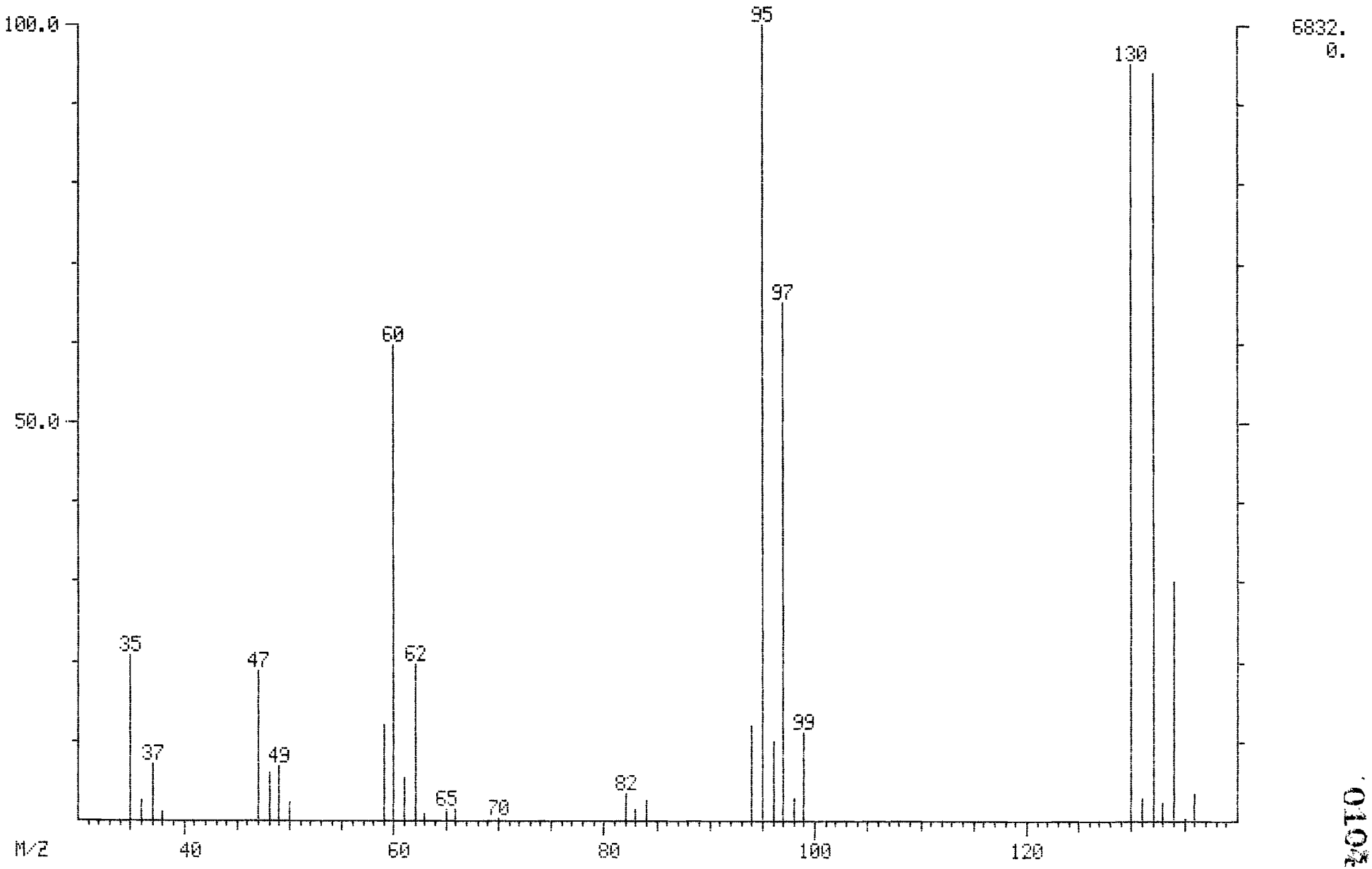


0103

MASS SPECTRUM
12/18/93 15:00:00 + 15:20
SAMPLE: AS053077DL JOB4488
CONDS.: I50K
TEMP: 112 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C150 TRICHLOROETHENE

DATA: K8727 #1068
CALI: K8727 #3

BASE M/Z: 95
RIC: 41216.



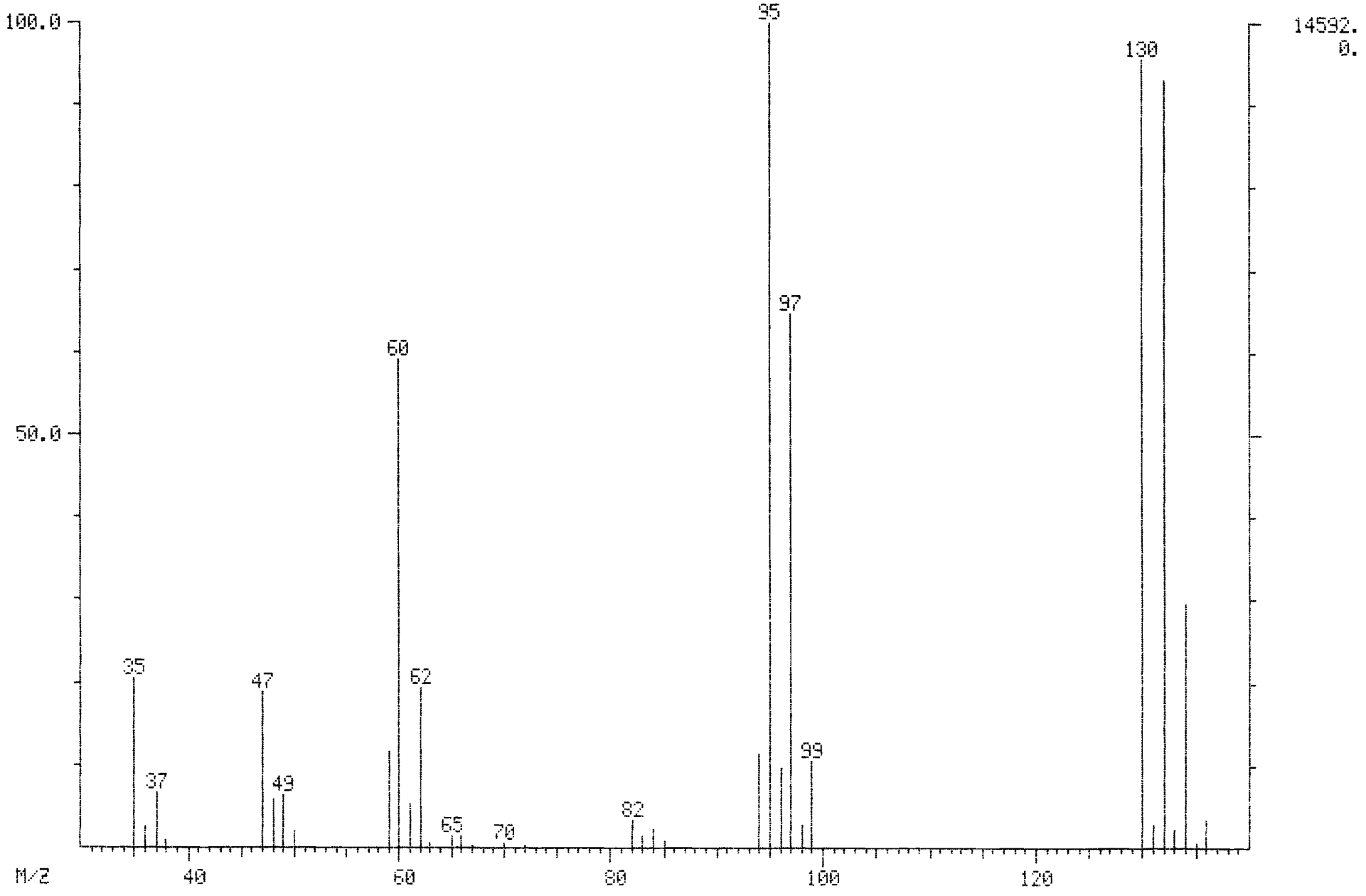
0104

MASS SPECTRUM
12/18/93 13:17:00 + 15:21
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-399 DEG. C

DATA: K8724 #1069
ENHANCED (S 15B 2N 0T)

BASE M/Z: 95
RIC: 87296.

NAME: C150 TRICHLOROETHENE



0105

INTERNAL STANDARD QUANTITATION REPORT: AMOUNTS BASED ON AREA

Quantitation Report File: K8727

Data: K8727.TI
12/18/93 15:00:00
Sample: AS053077DL JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	0-00-0	CI10 1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	0-00-0	CI20 D5-CHLOROBENZENE *INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	900	12:55	1	1.000	A BB	297135.	250.000 NG	33.33
2	TOT	1035	14:51	2	1.000	A BB	378857.	250.000 NG	33.33
3	TOT	1371	19:41	3	1.000	A BB	436085.	250.000 NG	33.33

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
184802

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053078

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8713

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	570	E
75-00-3	Chloroethane	43	
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	23	
75-34-3	1,1-Dichloroethane	640	E
540-59-0	1,2-Dichloroethene (total)	2000	E
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	18	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	260	E
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	2	BJ
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.6	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	0.3	J
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

184802

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053078

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8713

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

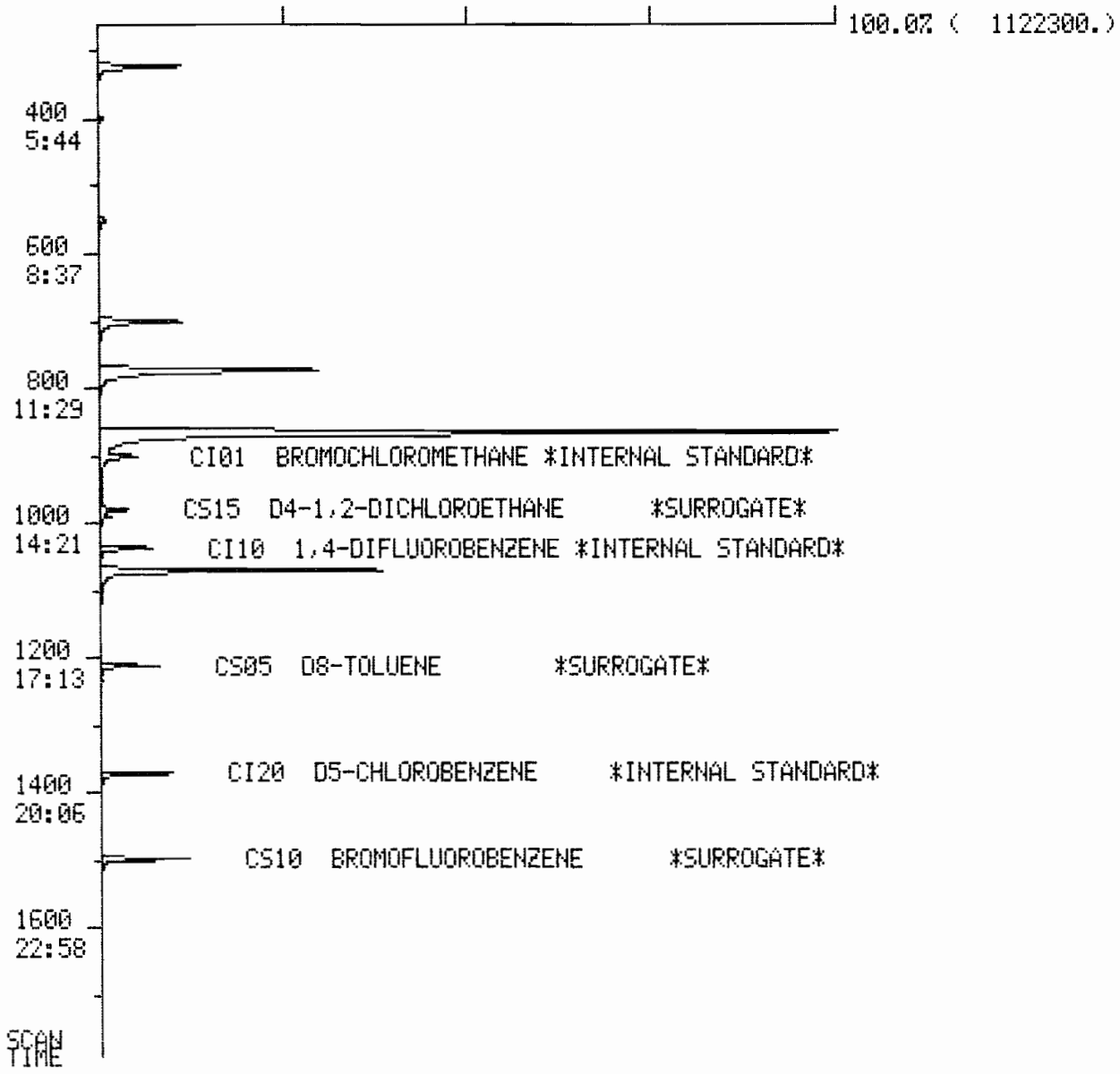
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

DATA FROM FILE: K8713 SCANS 260 TO 1790 ACQUIRED: 12/18/93 4:54:00
CALI: K8713 #3

SAMPLE: AS053078 JOB4488
CONDS.: I50K



6070

Quantitation Report File: K8713

Data: K8713.TI
/18/93 4:54:00
mple: AS053078 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
15	C050	1,1-DICHLOROETHANE
16	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
41	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

Reshot DF20

EC 12/14/93

No	Name
48	C246 M,P-XYLENE
?	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	898	12:53	1	1.000	A BB	32309.	250.000 NG	1.36
2	114	1034	14:51	2	1.000	A BB	132221.	250.000 NG	1.36
3	117	1369	19:39	3	1.000	A BB	123561.	250.000 NG	1.36
4	65	978	14:02	1	1.089	A BB	77653.	291.654 NG	1.59
5	98	1209	17:21	3	0.883	A BB	127385.	238.266 NG	1.30
6	95	1495	21:28	3	1.092	A BB	116742.	254.919 NG	1.39
7	NOT FOUND								
8	NOT FOUND								
9	62	319	4:35	1	0.355	A BB	405538.	2833.550 NG	15.44
10	64	397	5:42	1	0.442	A BB	19826.	214.677 NG	1.17
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	96	548	7:52	1	0.610	A BB	15179.	114.148 NG	0.62
15	63	771	11:04	1	0.859	A BB	1195550.	3216.280 NG	17.52
16	96	698	10:01	1	0.777	A BB	145279.	975.619 NG	5.32
17	NOT FOUND								
18	62	988	14:11	1	1.100	A BB	26448.	88.508 NG	0.48
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
?	NOT FOUND								
23	NOT FOUND								
24	96	864	12:24	1	0.962	A BB	1527190.	8028.530 NG	43.80
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	130	1068	15:20	2	1.033	A BB	337415.	1324.750 NG	7.22
32	NOT FOUND								
33	NOT FOUND								
34	78	987	14:10	2	0.955	A BB	3802.	7.736 NG	0.04
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	91	1217	17:28	3	0.889	A BB	1786.	3.229 NG	0.02
45	NOT FOUND								
46	106	1382	19:50	3	1.009	A BB	230.	1.257 NG	0.01
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

1,2-Dichloroethene (TOTAL) = #16+#24

1527190. / 1672469.

8028.530 NG / 9871.244 NG

RF = 1.311

MTM 12/28/93

12/18/93

MTM 12/28/93

Quantitation Report File: K8713

Data: K8713.TI
'18/93 4:54:00
mple: AS053078 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

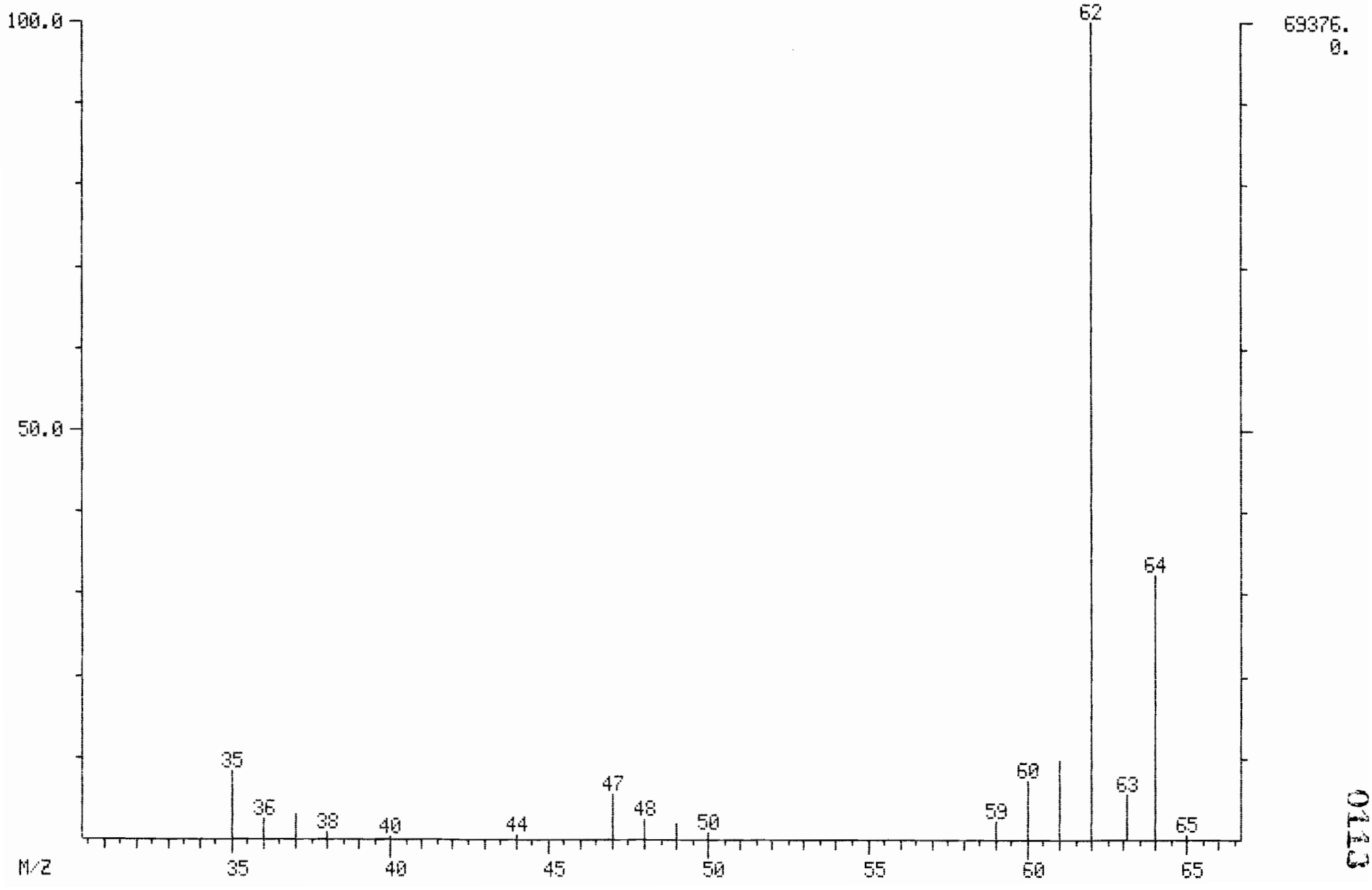
No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

MASS SPECTRUM
12/18/93 4:54:00 + 4:35
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
NAME: C020 VINYL CHLORIDE

DATA: K8713 #319
CALI: K8713 #3

BASE M/Z: 62
RIC: 127488.

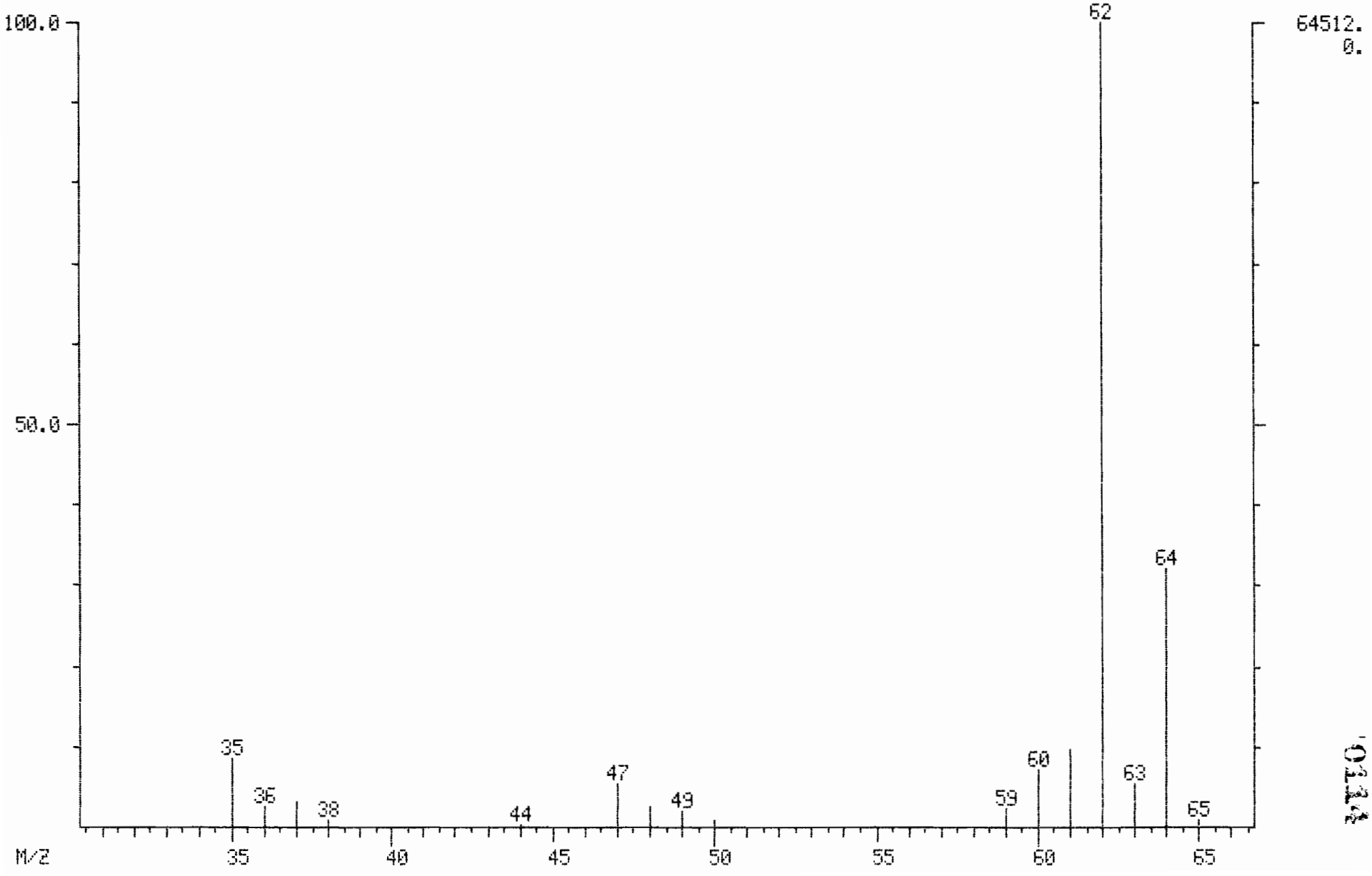


0113

MASS SPECTRUM
12/18/93 4:54:00 + 4:35
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C020 VINYL CHLORIDE

DATA: K8713 #319
CALI: K8713 #3

BASE M/Z: 62
RIC: 118144.



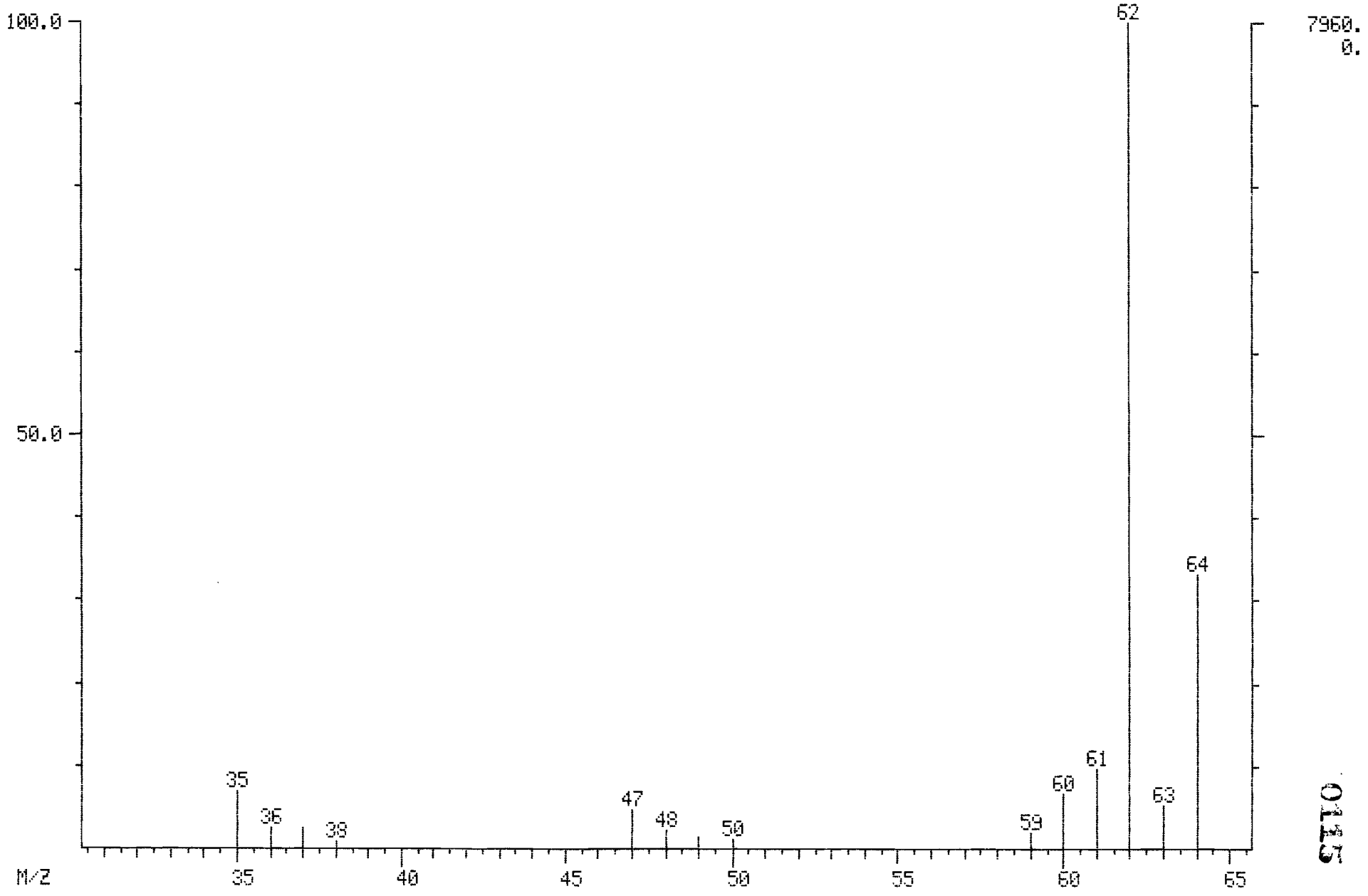
0144

MASS SPECTRUM
12/17/93 19:29:00 + 4:31
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C

DATA: K8696 #315
ENHANCED (S 15B 2N 0T)

BASE M/Z: 62
RIC: 14288.

NAME: C020 VINYL CHLORIDE



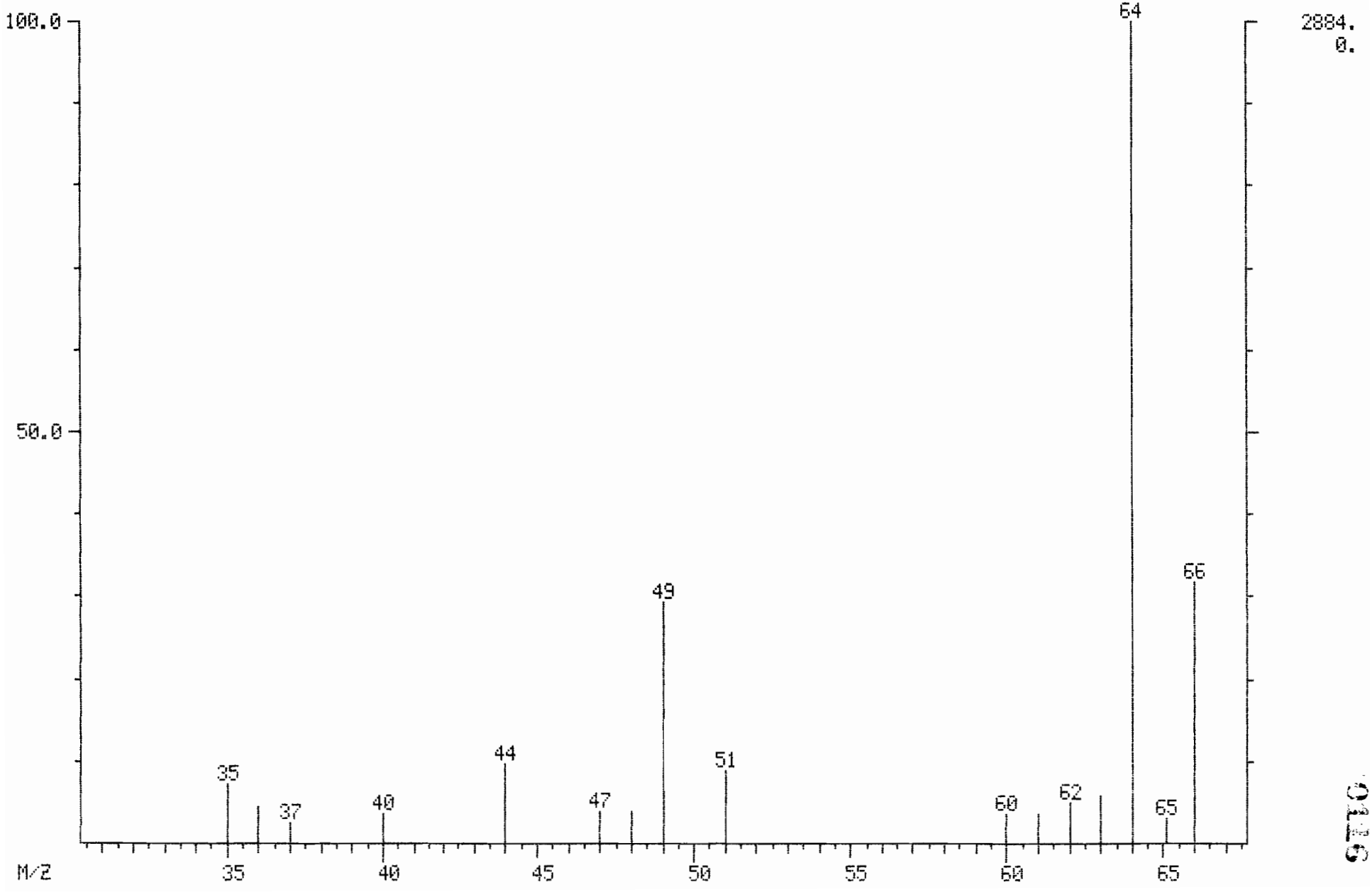
0115

MASS SPECTRUM
12/18/93 4:54:00 + 5:42
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C

DATA: K8713 #397
CALI: K8713 #3

BASE M/Z: 64
RIC: 6536.

NAME: C025 CHLOROETHANE

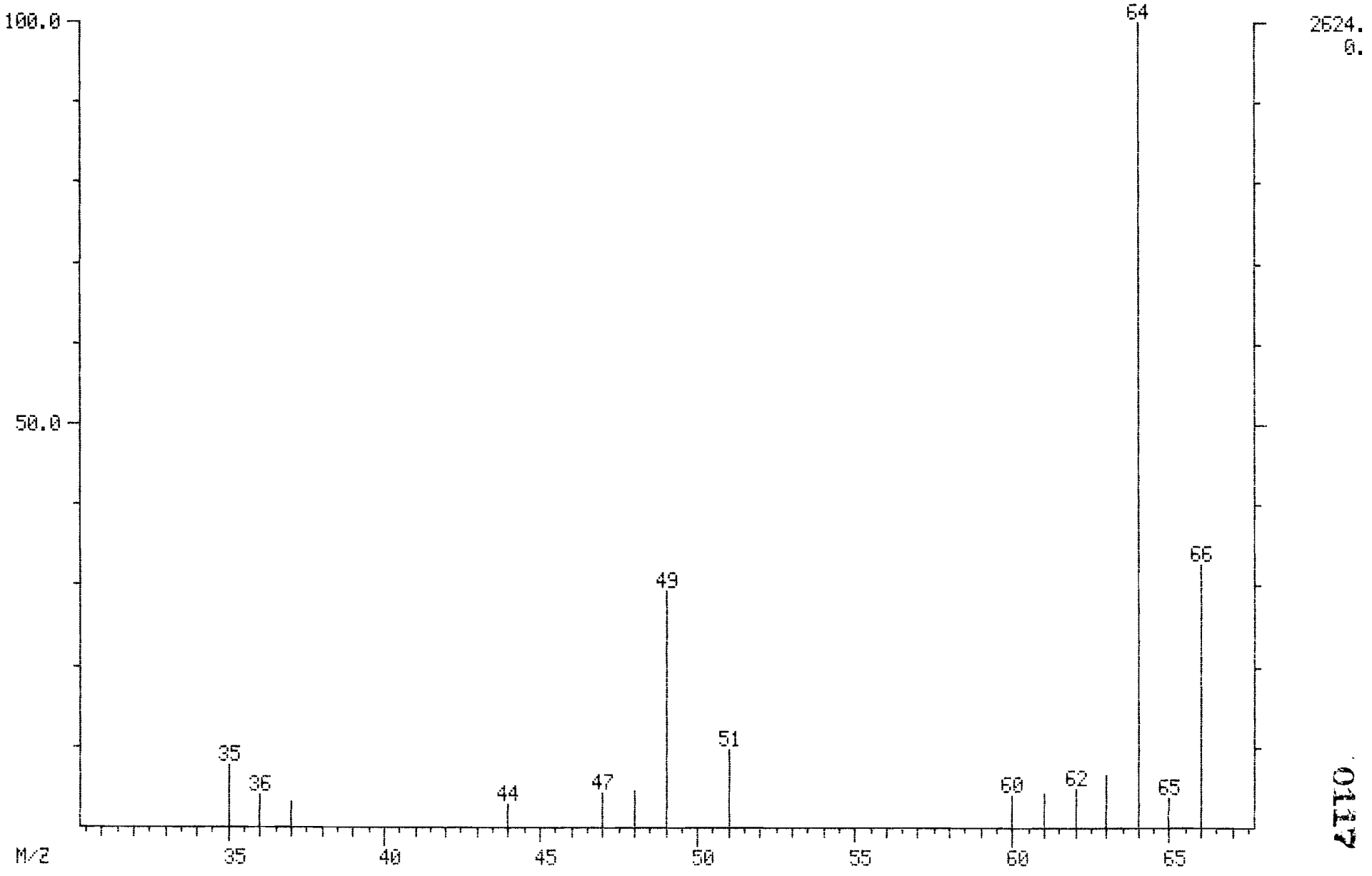


0126

MASS SPECTRUM
12/18/93 4:54:00 + 5:42
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C025 CHLOROETHANE

DATA: K8713 #397
CALI: K8713 #3

BASE M/Z: 64
RIC: 5800.



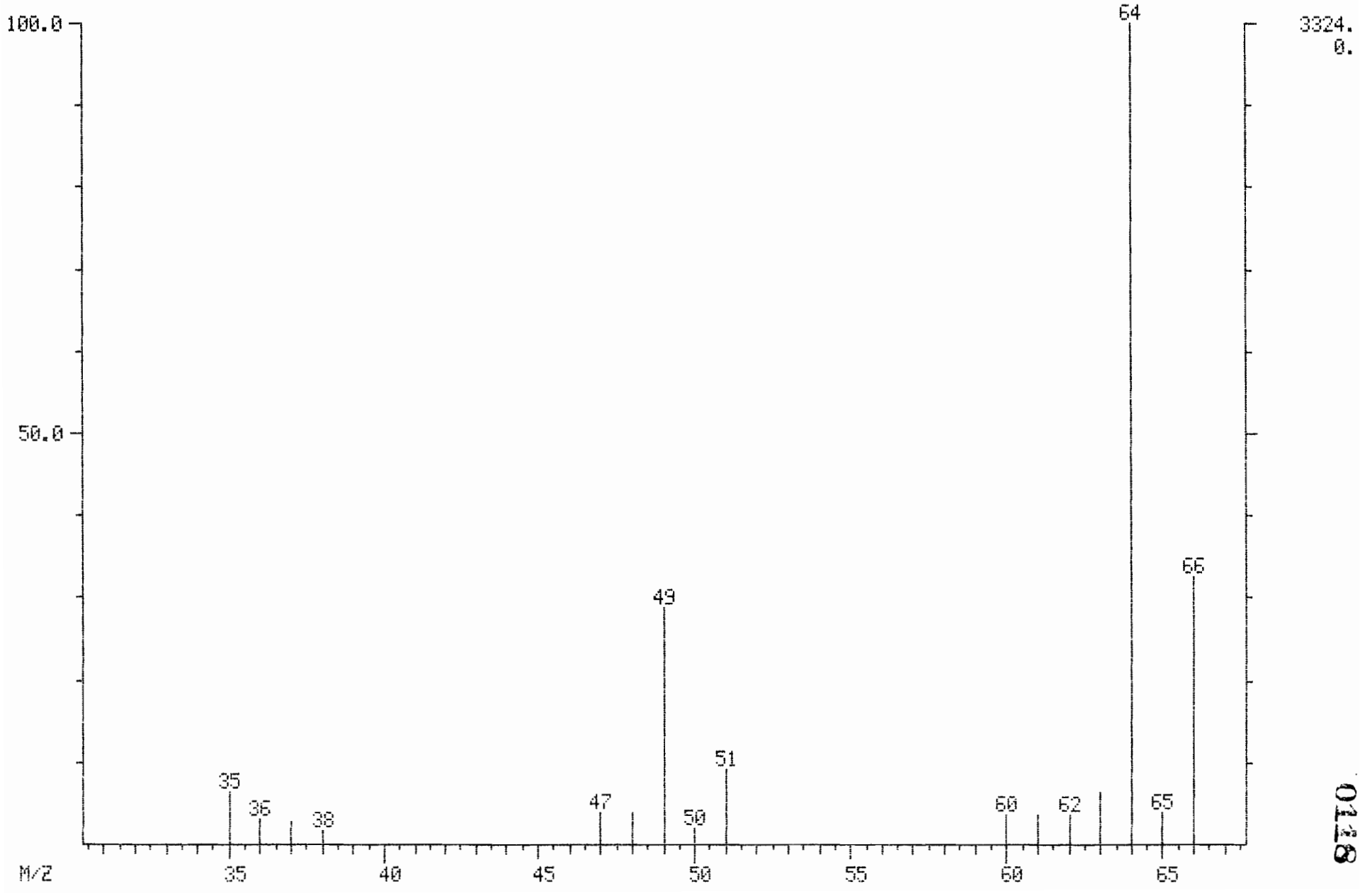
0117

MASS SPECTRUM
12/17/93 19:29:00 + 5:36
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C

DATA: K8696 #390
ENHANCED (S 15B 2N 0T)

BASE M/Z: 64
RIC: 7160.

NAME: C025 CHLOROETHANE

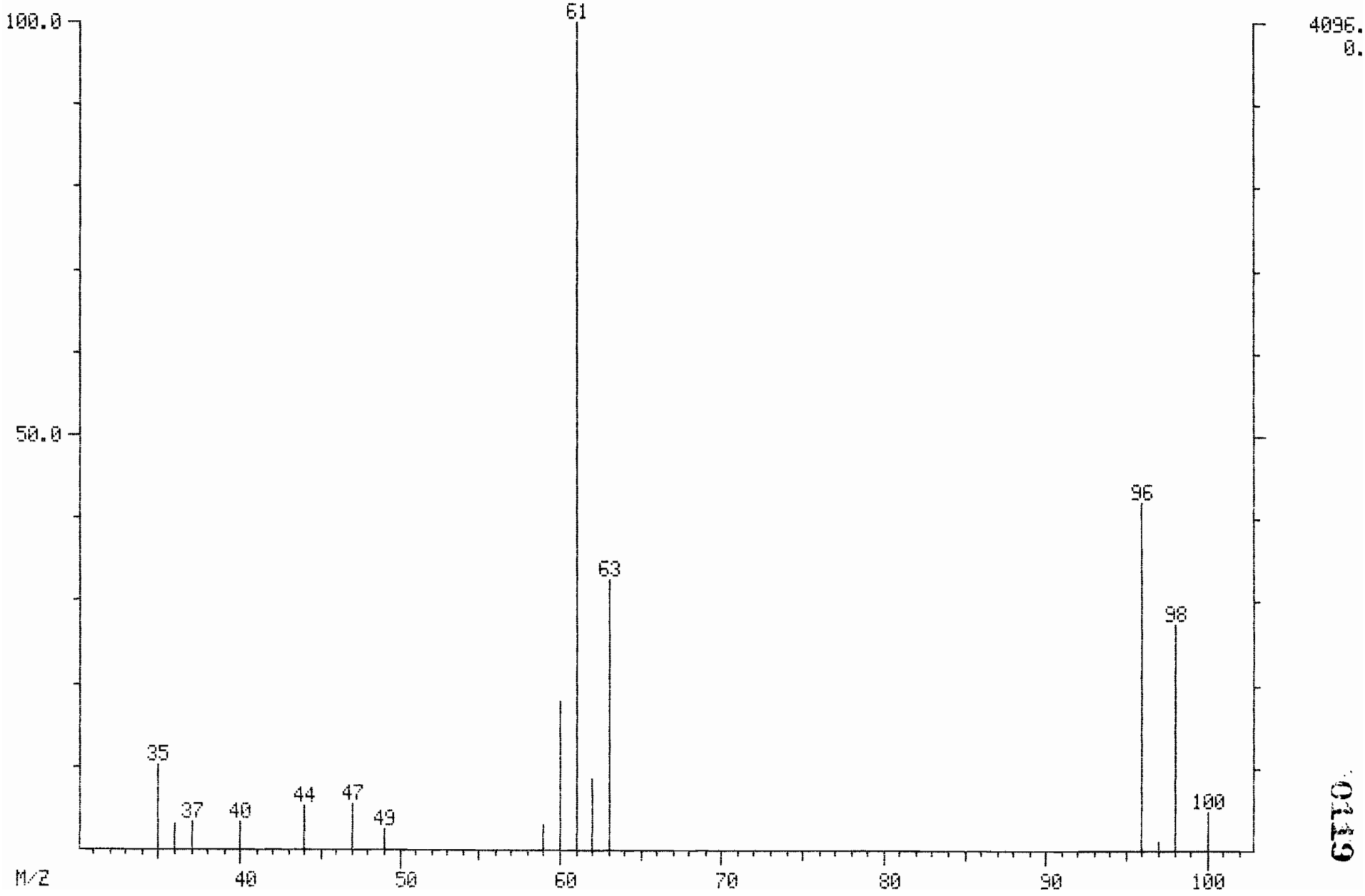


0128

MASS SPECTRUM
12/18/93 4:54:00 + 7:52
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
NAME: C045 1,1-DICHLOROETHENE

DATA: K8713 #548
CALI: K8713 #3

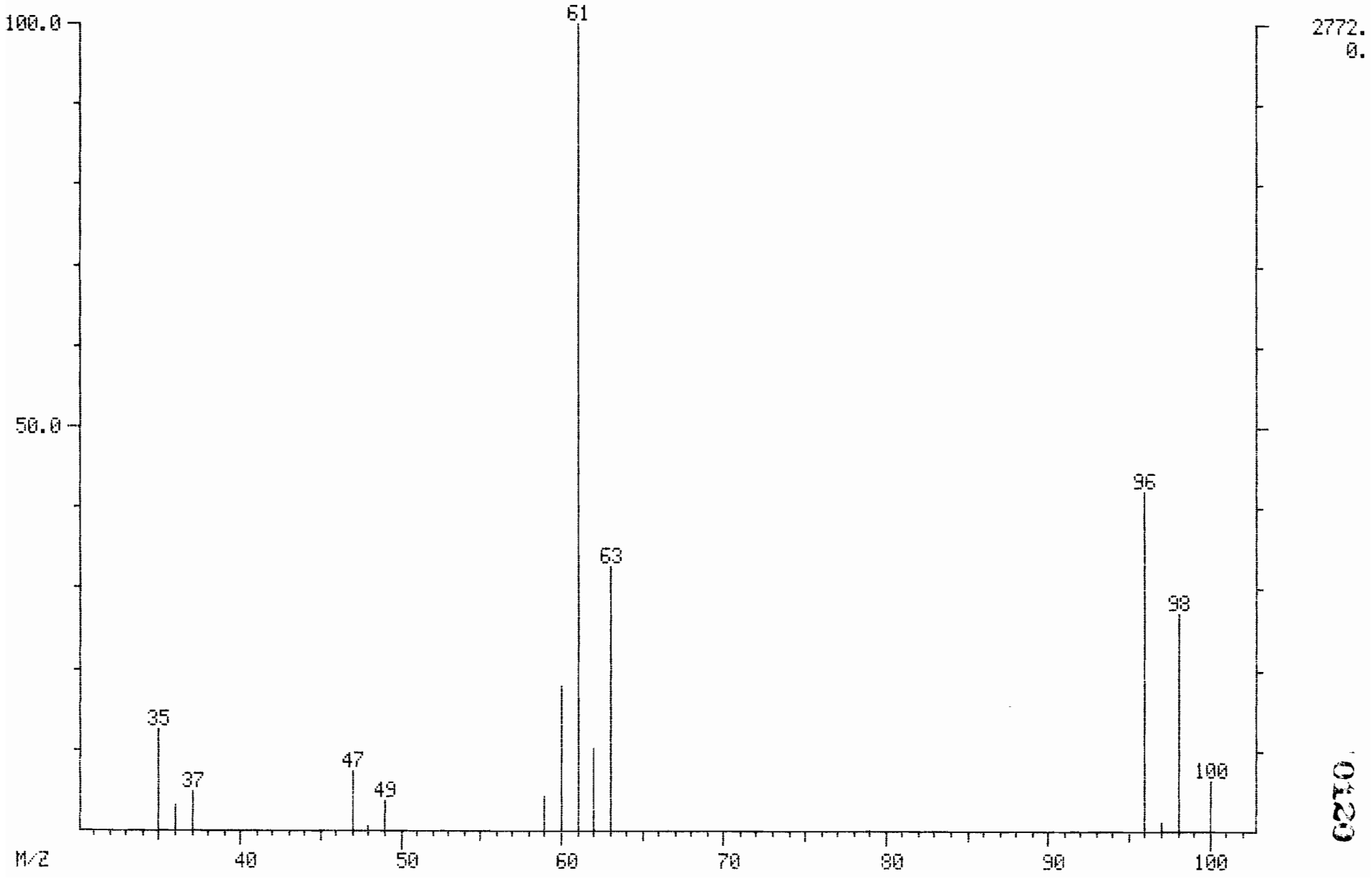
BASE M/Z: 61
RIC: 11088.



MASS SPECTRUM
12/18/93 4:54:00 + 7:52
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C045 1,1-DICHLOROETHENE

DATA: K8713 #548
CALI: K8713 #3

BASE M/Z: 61
RIC: 7592.

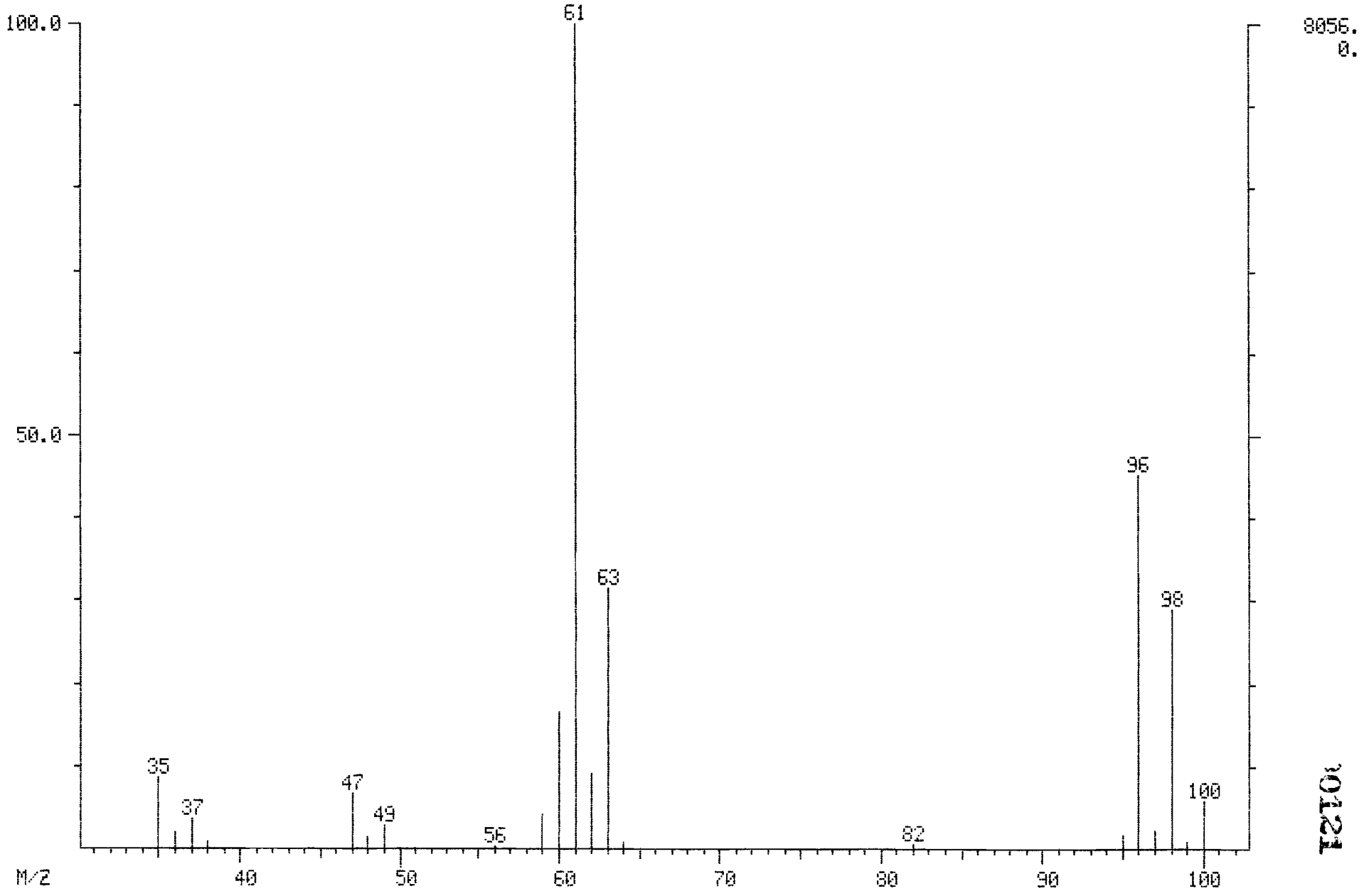


0120

MASS SPECTRUM
12/17/93 19:29:00 + 7:48
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C
NAME: C045 1,1-DICHLOROETHENE

DATA: K8696 #543
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 22016.

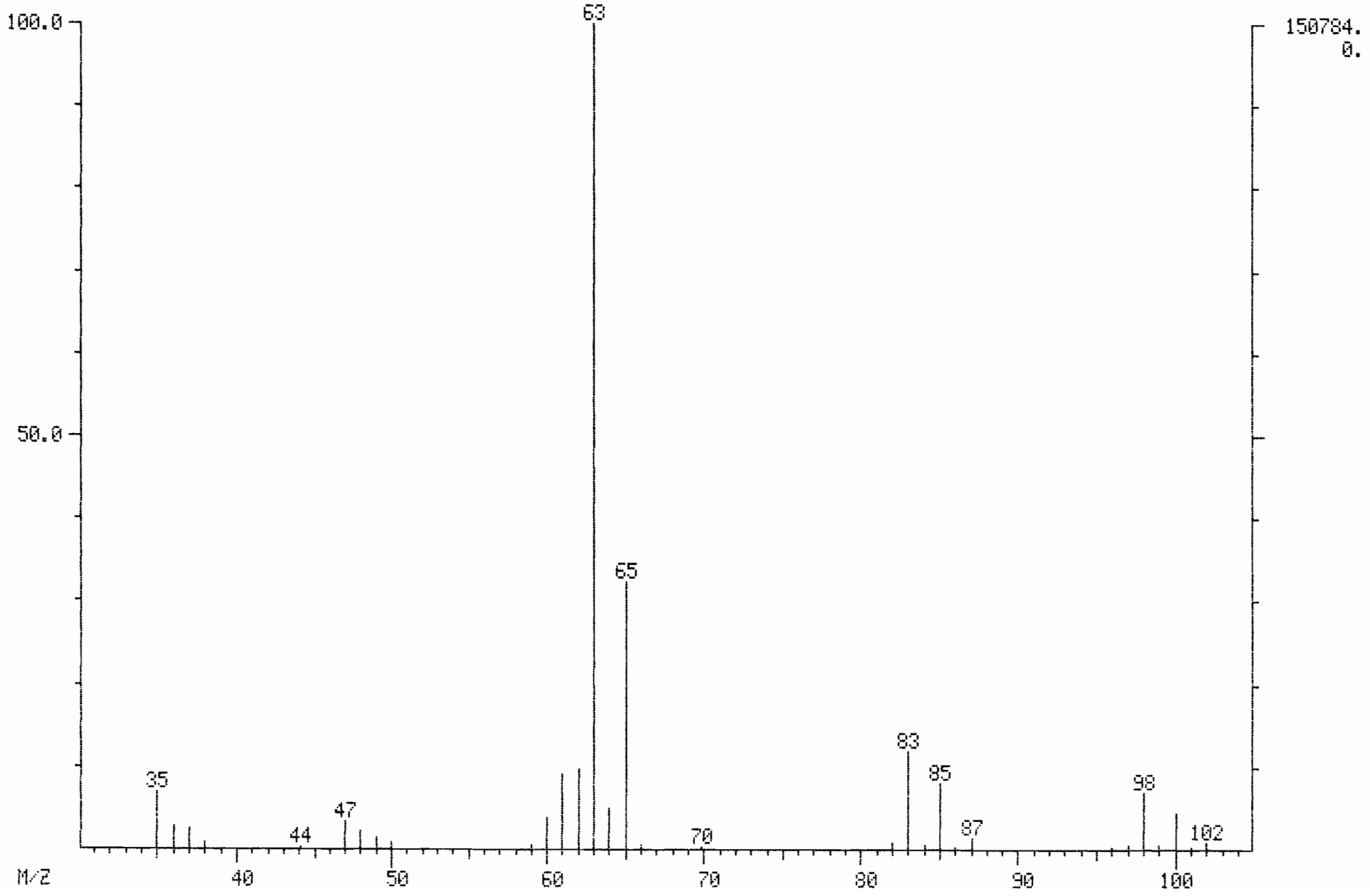


0121

MASS SPECTRUM
12/18/93 4:54:00 + 11:04
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 70 DEG. C
NAME: C050 1,1-DICHLOROETHANE

DATA: K8713 #771
CALI: K8713 #3

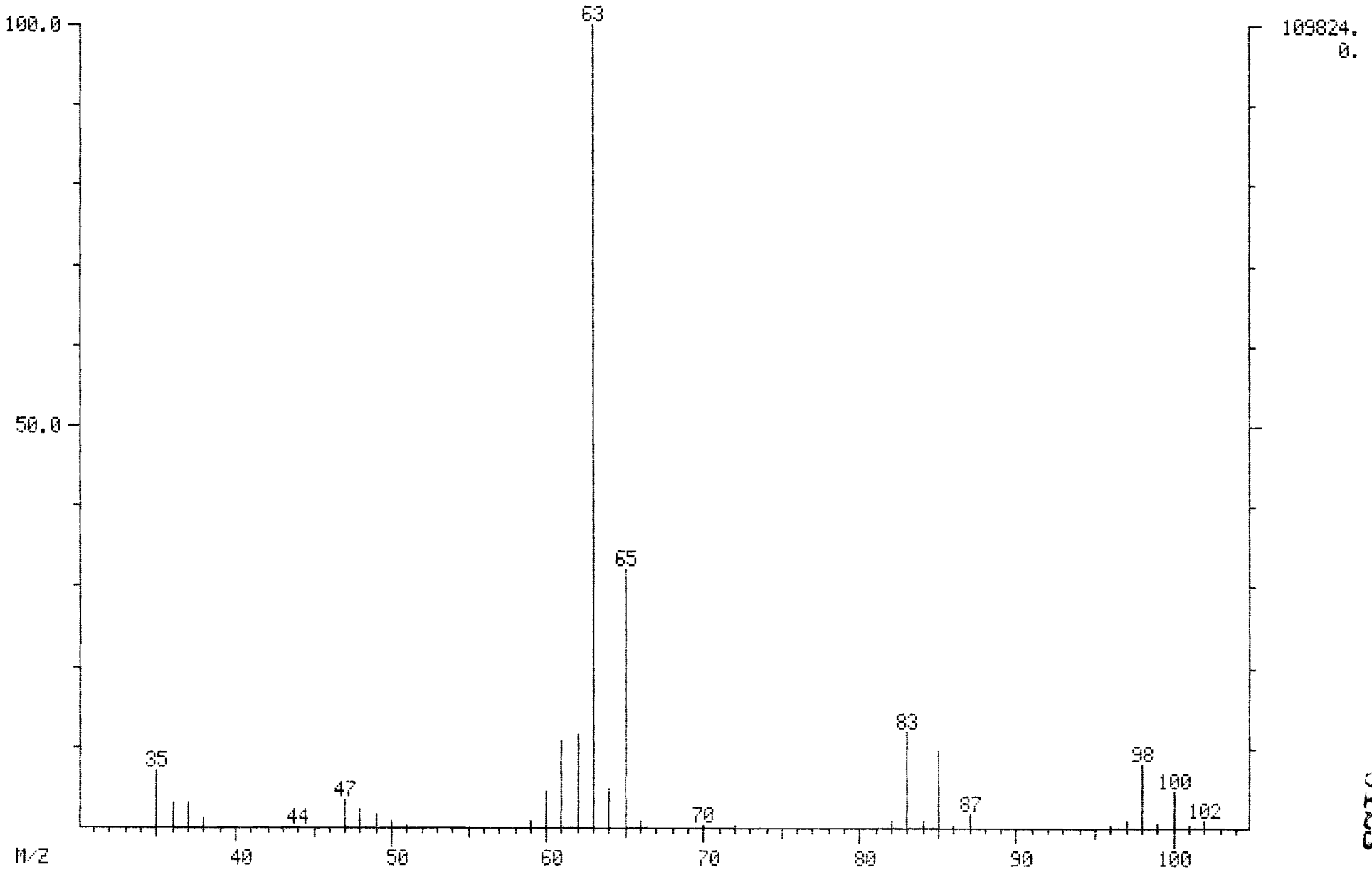
BASE M/Z: 63
RIC: 329728.



MASS SPECTRUM
12/18/93 4:54:00 + 11:04
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 70 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C050 1,1-DICHLOROETHANE

DATA: K8713 #771
CALI: K8713 #3

BASE M/Z: 63
RIC: 252416.

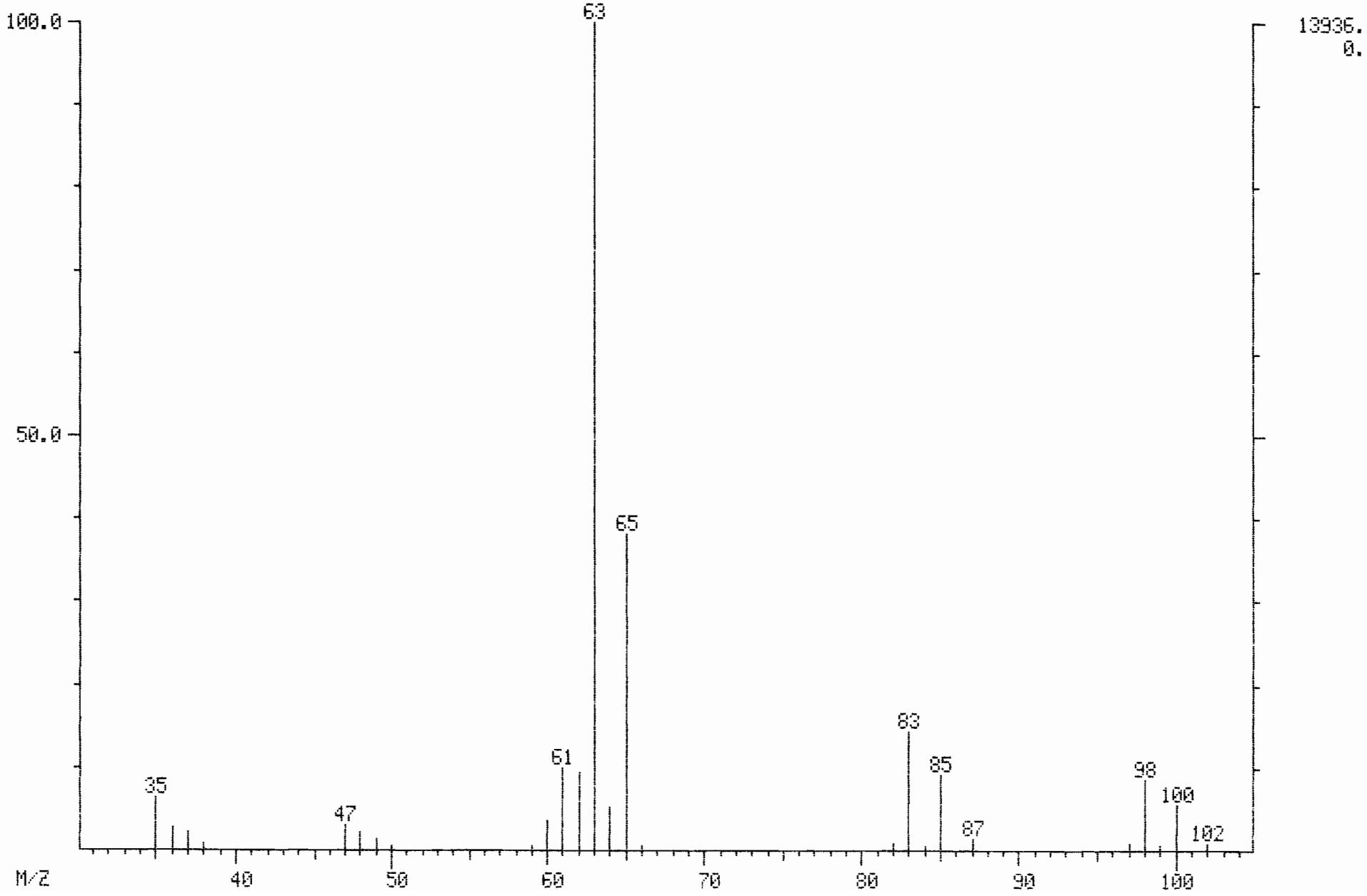


0123

MASS SPECTRUM
12/17/93 19:29:00 + 11:01
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-442 DEG. C
NAME: C050 1,1-DICHLOROETHANE

DATA: K8696 #768
ENHANCED (S 15B 2N 0T)

BASE M/Z: 63
RIC: 32032.

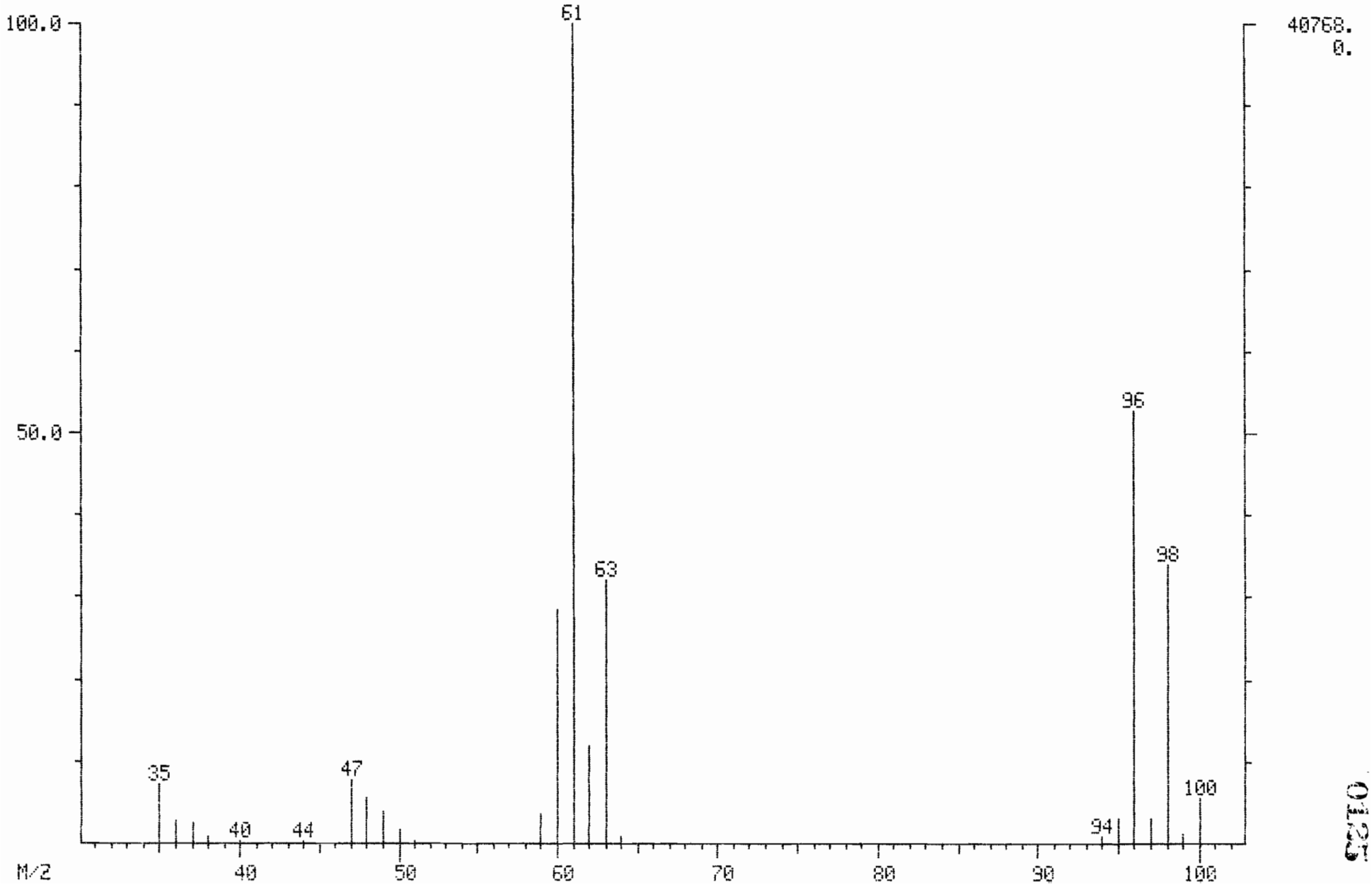


MASS SPECTRUM
12/18/93 4:54:00 + 10:01
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 59 DEG. C

DATA: K8713 #698
CALI: K8713 #3

BASE M/Z: 61
RIC: 126208.

NAME: C057 TRANS-1,2-DICHLOROETHENE

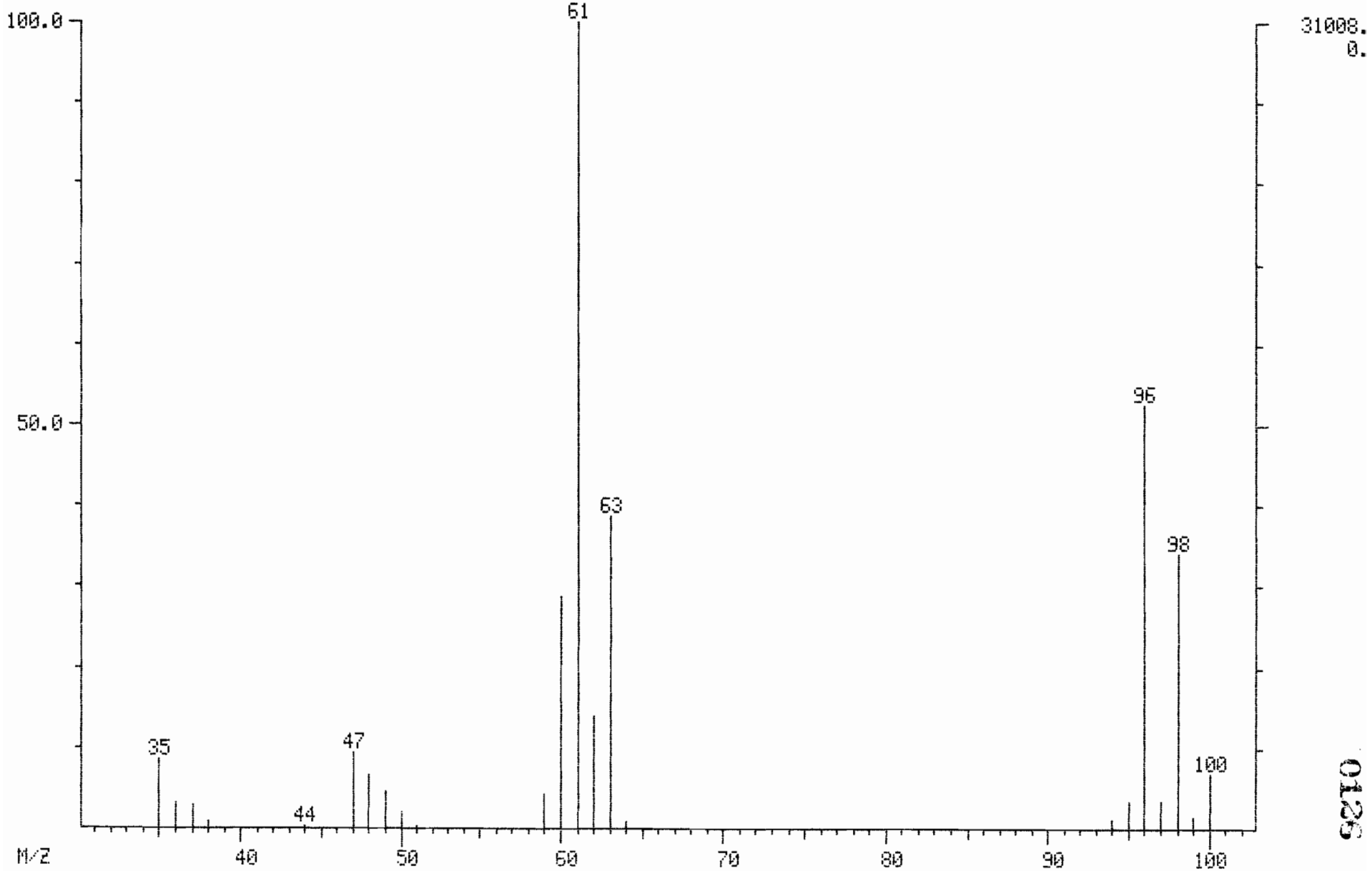


0125

MASS SPECTRUM
12/18/93 4:54:00 + 10:01
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 59 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C057 TRANS-1,2-DICHLOROETHENE

DATA: K8713 #698
CALI: K8713 #3

BASE M/Z: 61
RIC: 101504.



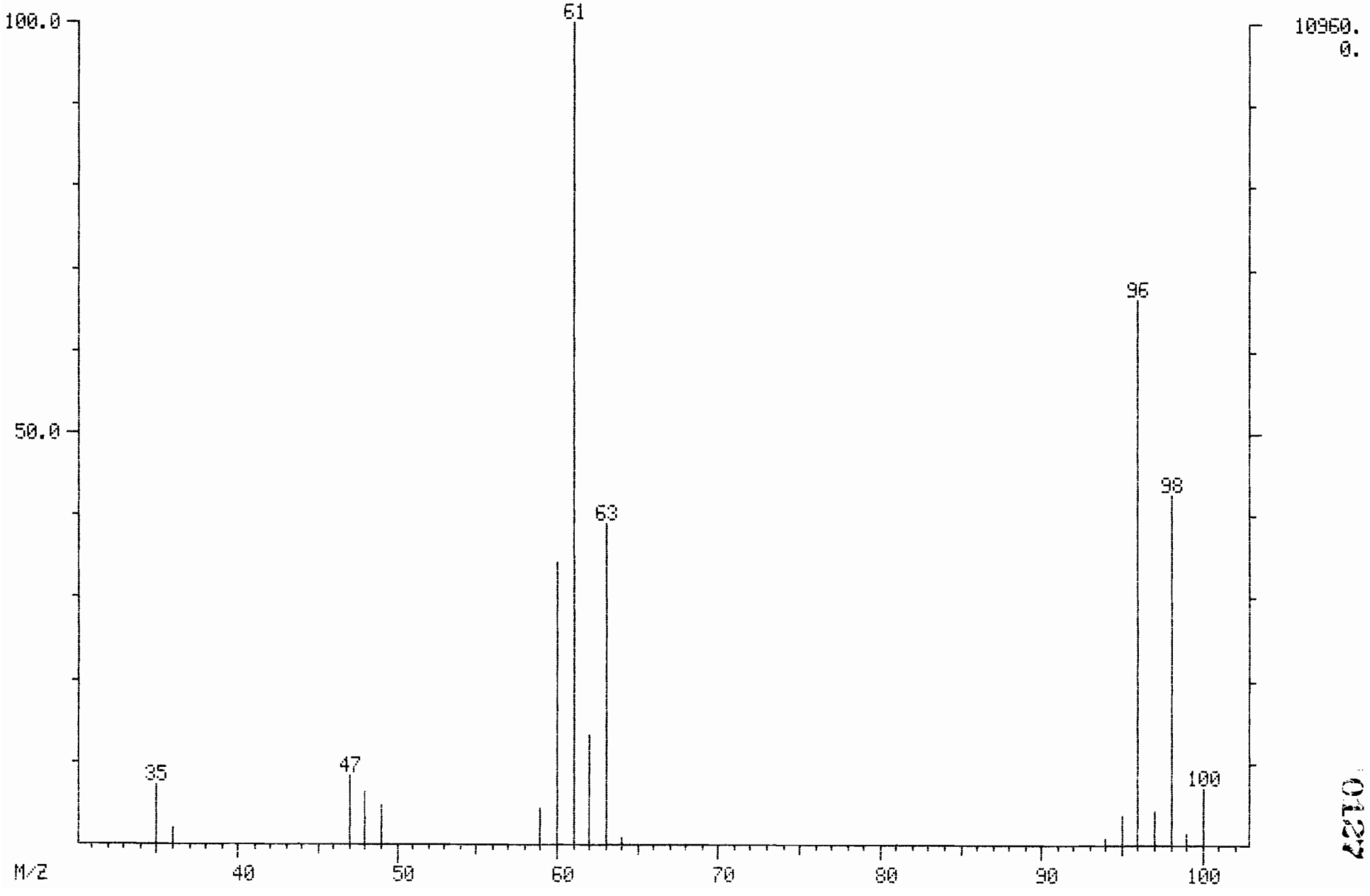
0126

MASS SPECTRUM
12/17/93 19:29:00 + 9:59
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-452 DEG. C

DATA: K8696 #695
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 37888.

NAME: C057 TRANS-1,2-DICHLOROETHENE

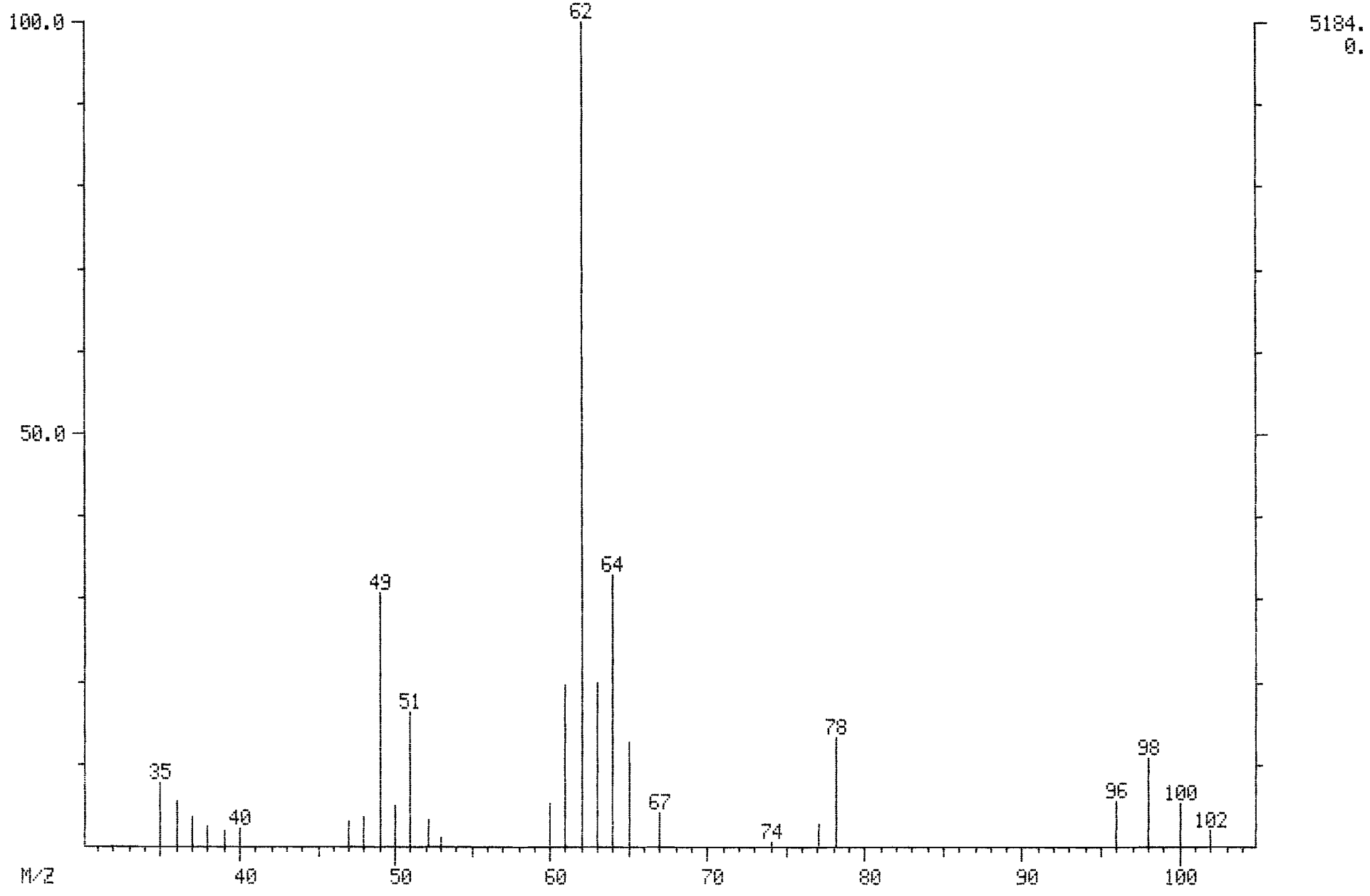


4270

MASS SPECTRUM
12/18/93 4:54:00 + 14:11
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 101 DEG. C
NAME: C065 1,2-DICHLOROETHANE

DATA: K8713 #988
CALI: K8713 #3

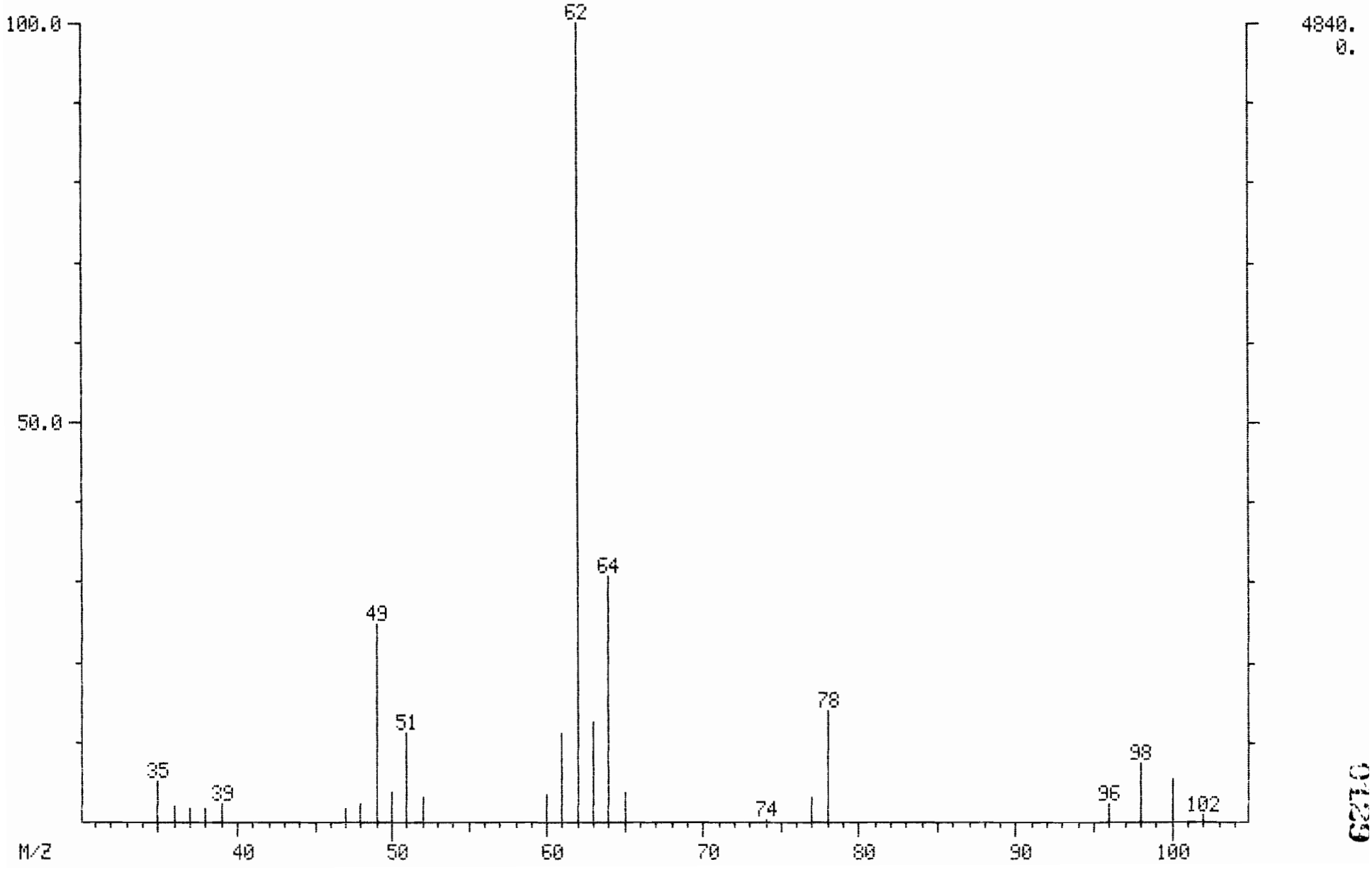
BASE M/Z: 62
RIC: 16704.



MASS SPECTRUM
12/18/93 4:54:00 + 14:11
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 101 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C065 1,2-DICHLOROETHANE

DATA: K8713 #988
CALI: K8713 #3

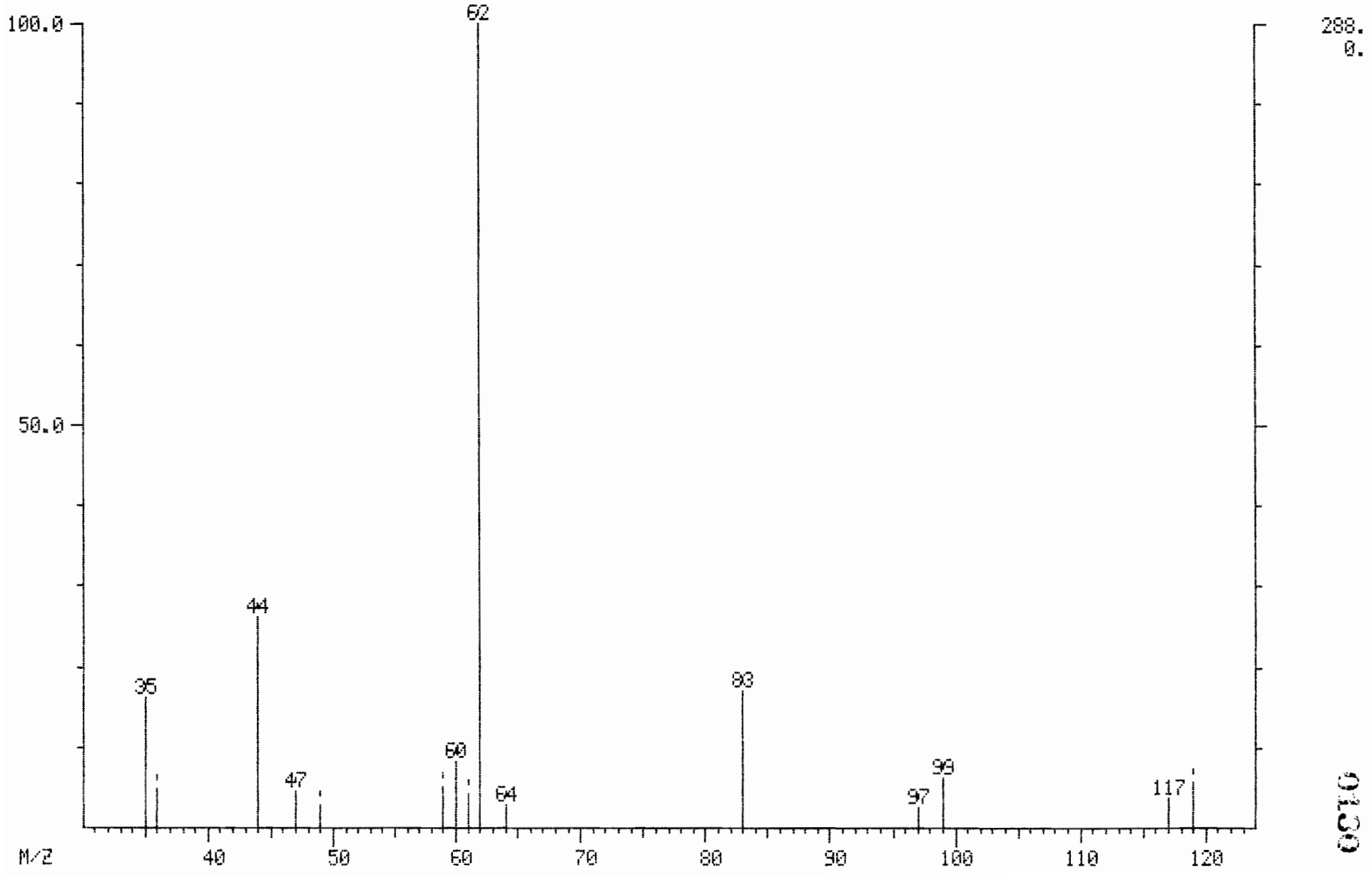
BASE M/Z: 62
RIC: 12304.



MASS SPECTRUM
12/17/93 19:29:00 + 14:09
SAMPLE: VSTD050
CONDS.: I50K
TEMP: 101 DEG. C
#986 - #985NAME: C065 1,2-DICHLOROETHANE

DATA: K8696 #986
CALI: K8696 #3

BASE M/Z: 62
RIC: 605.



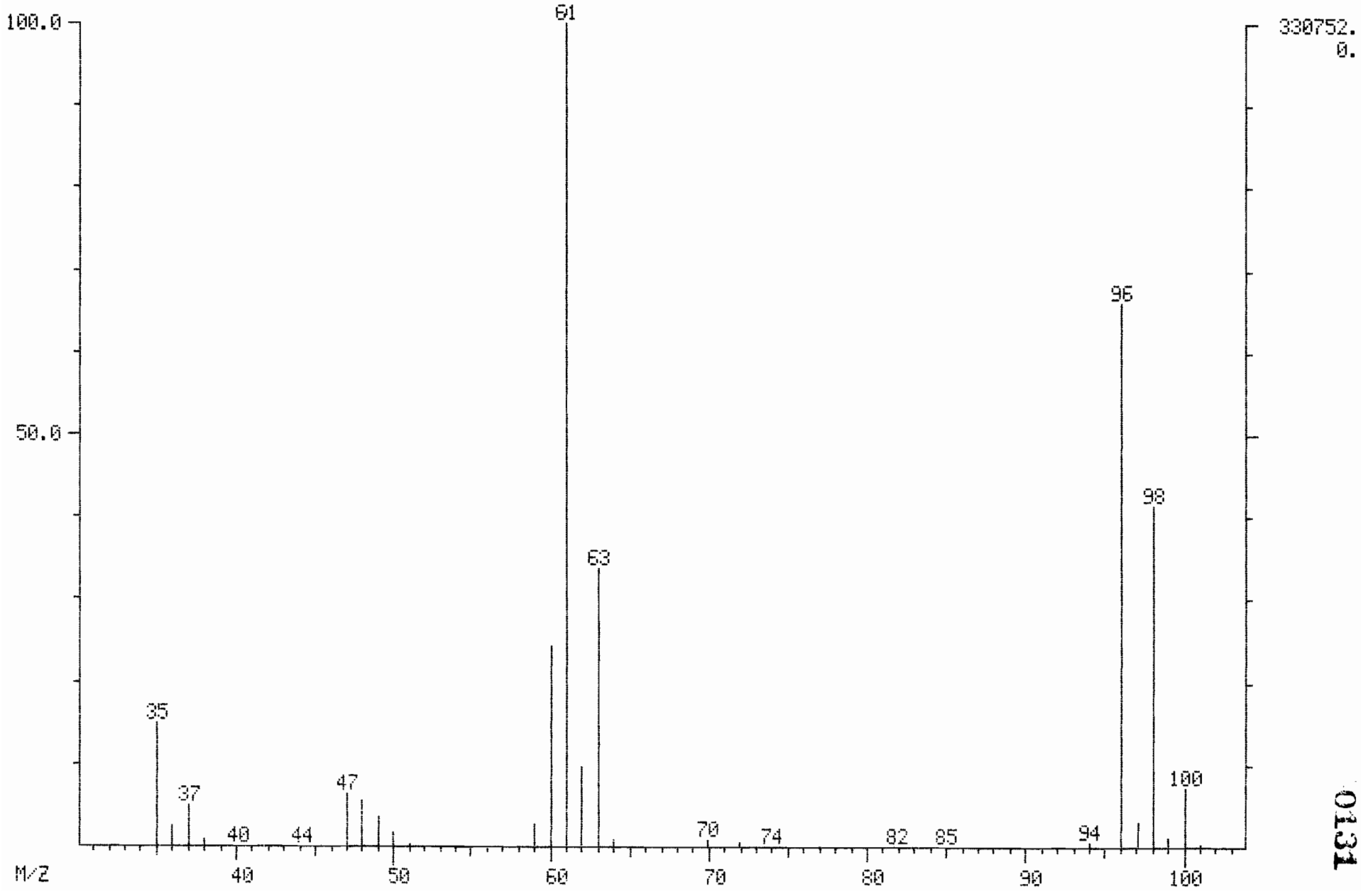
0130

MASS SPECTRUM
12/18/93 4:54:00 + 12:24
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 83 DEG. C

DATA: K8713 #864
CALI: K8713 #3

BASE M/Z: 61
RIC: 1097730.

NAME: C056 CIS-1,2-DICHLOROETHENE

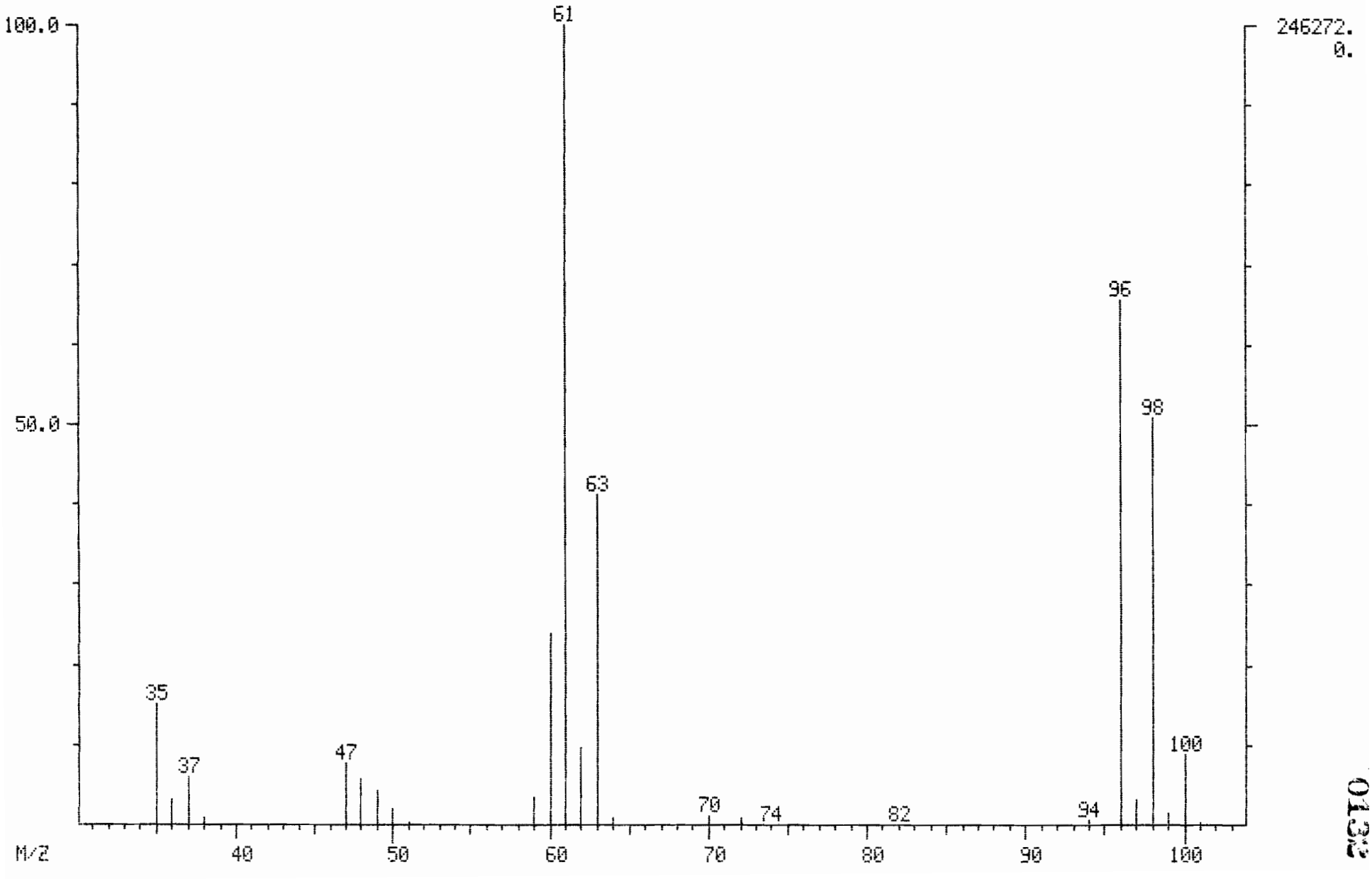


0131

MASS SPECTRUM
12/18/93 4:54:00 + 12:24
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C056 CIS-1,2-DICHLOROETHENE

DATA: K8713 #864
CALI: K8713 #3

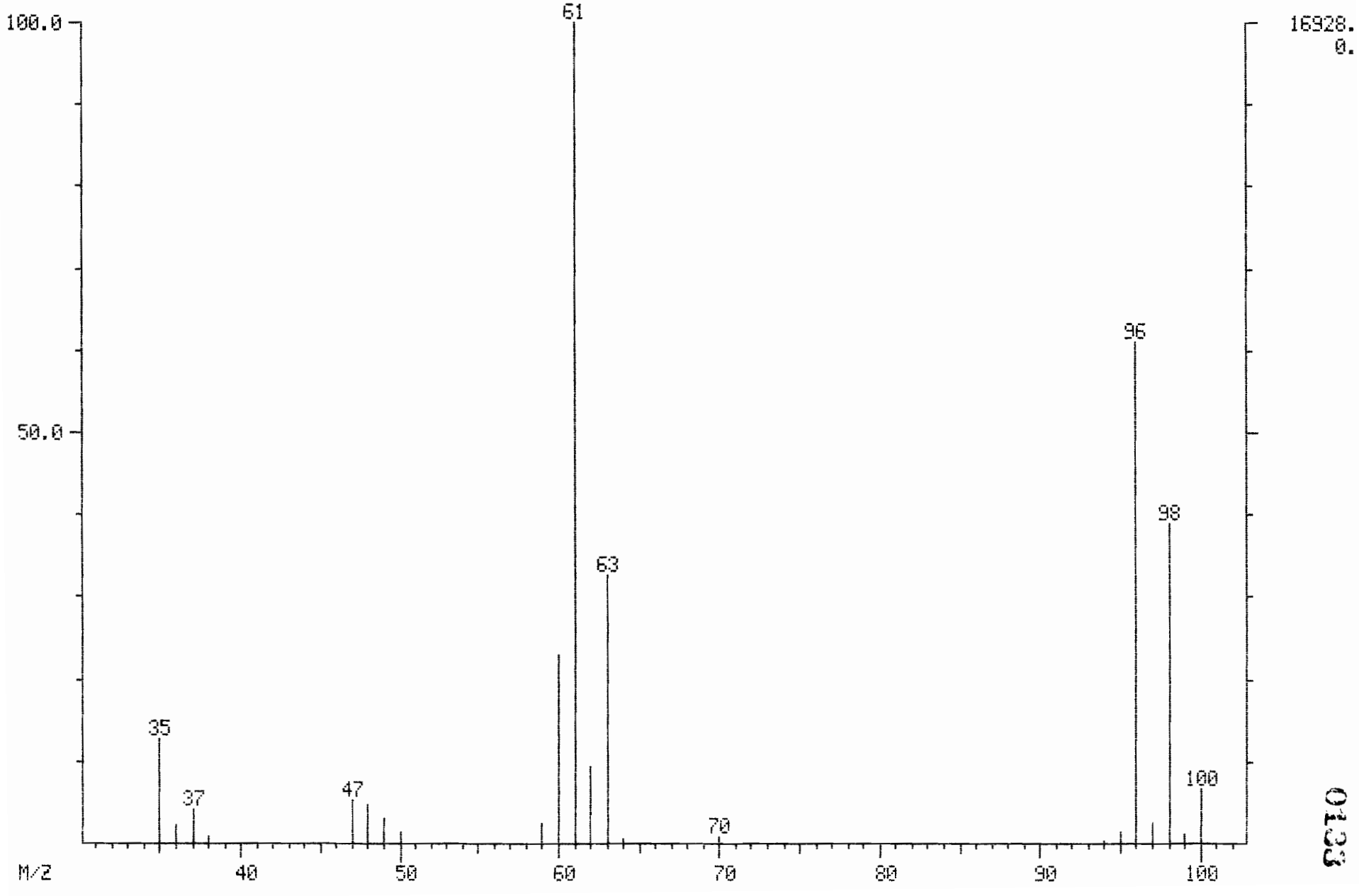
BASE M/Z: 61
RIC: 879616.



MASS SPECTRUM
12/17/93 19:29:00 + 12:22
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-428 DEG. C
NAME: C056 CIS-1,2-DICHLOROETHENE

DATA: K8696 #861
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 53440.

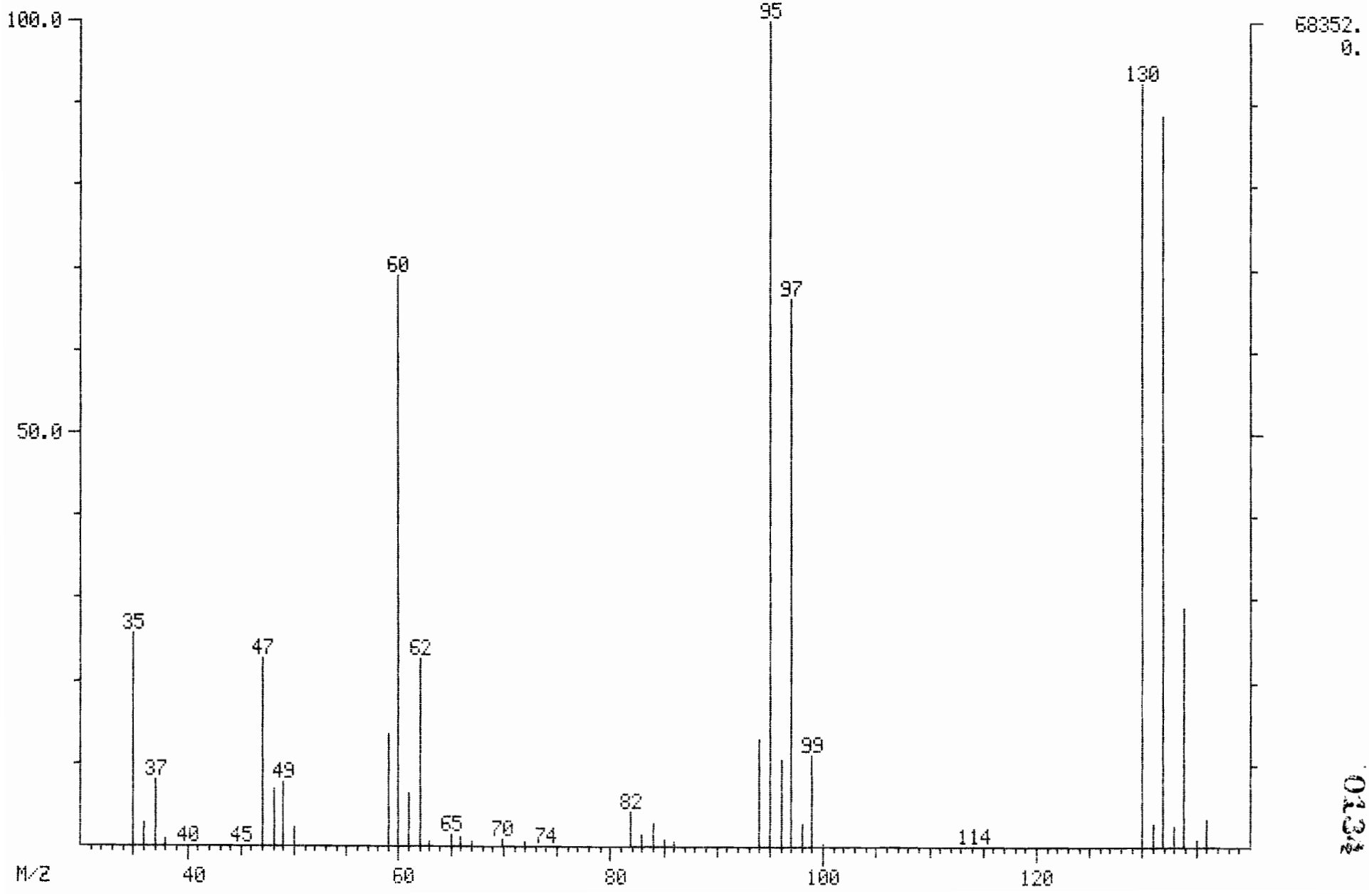


0133

MASS SPECTRUM
12/18/93 4:54:00 + 15:20
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 112 DEG. C
NAME: C150 TRICHLOROETHENE

DATA: K8713 #1068
CALI: K8713 #3

BASE M/Z: 95
RIC: 428544.

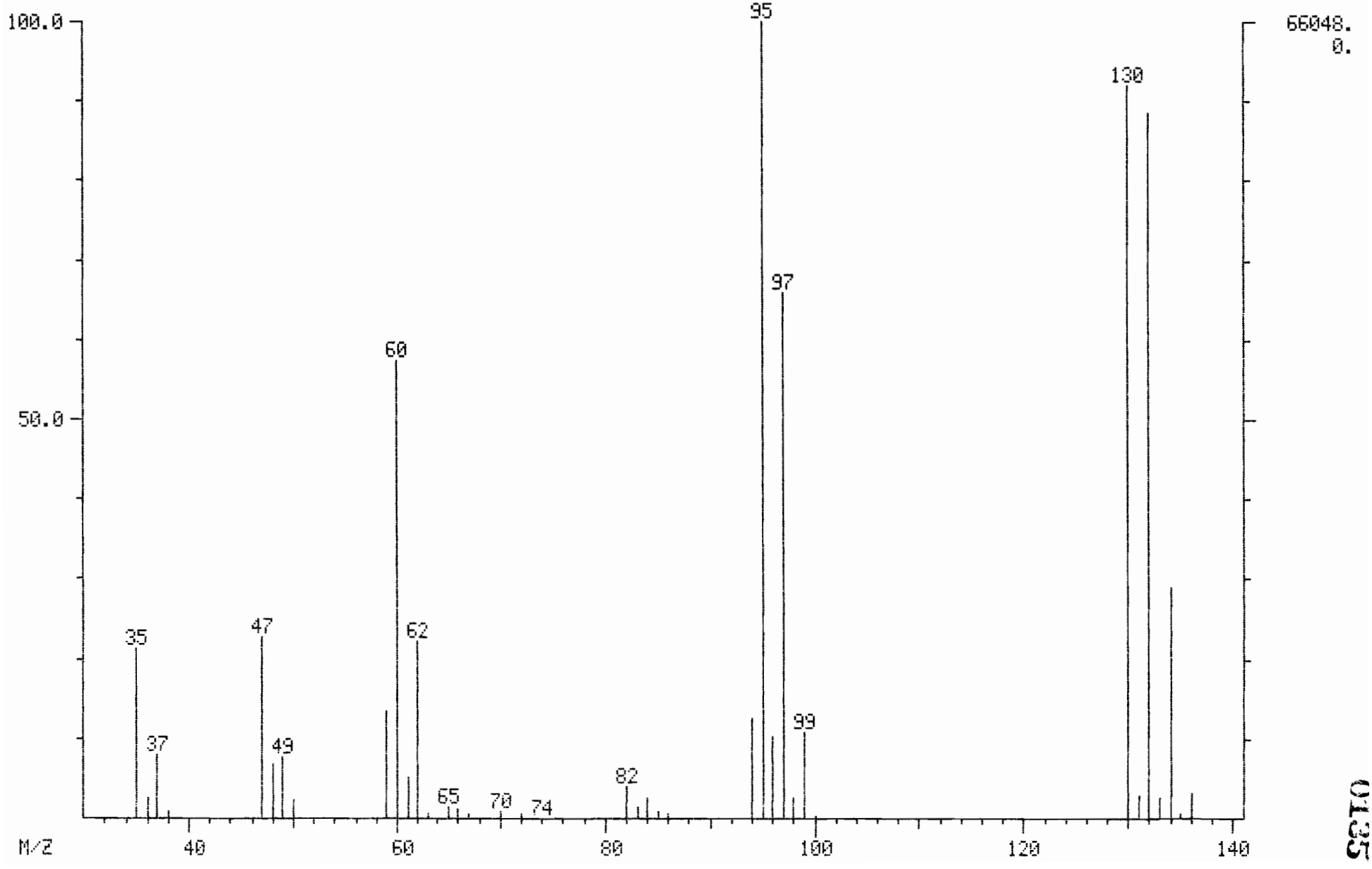


0132

MASS SPECTRUM
12/18/93 4:54:00 + 15:20
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 112 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C150 TRICHLOROETHENE

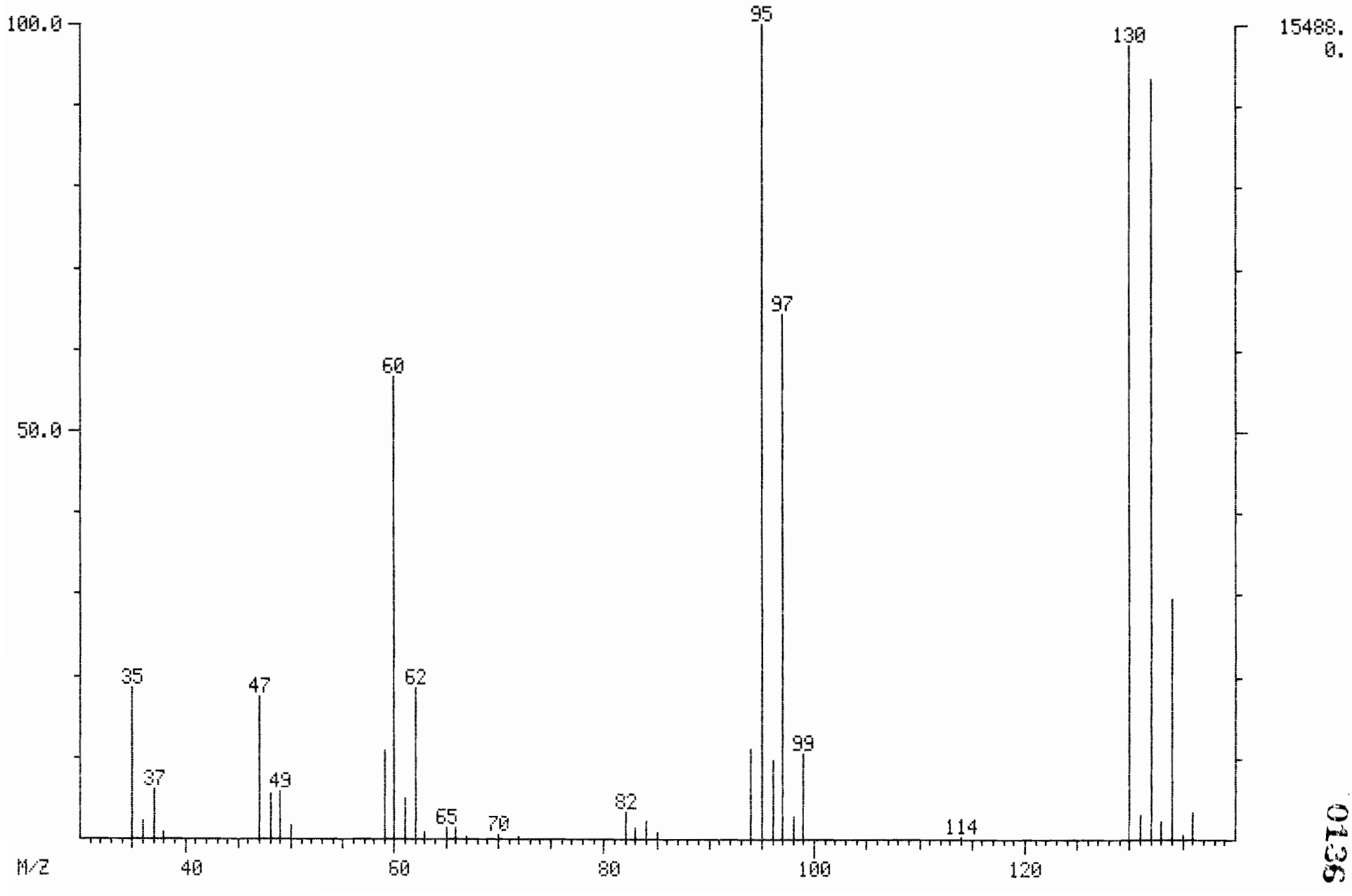
DATA: K8713 #1068
CALI: K8713 #3

BASE M/Z: 95
RIC: 399872.



MASS SPECTRUM
12/17/93 19:29:00 + 15:17
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-399 DEG. C
NAME: C150 TRICHLOROETHENE

DATA: K8696 #1065 BASE M/Z: 95
ENHANCED (S 15B 2N 0T) RIC: 91520.



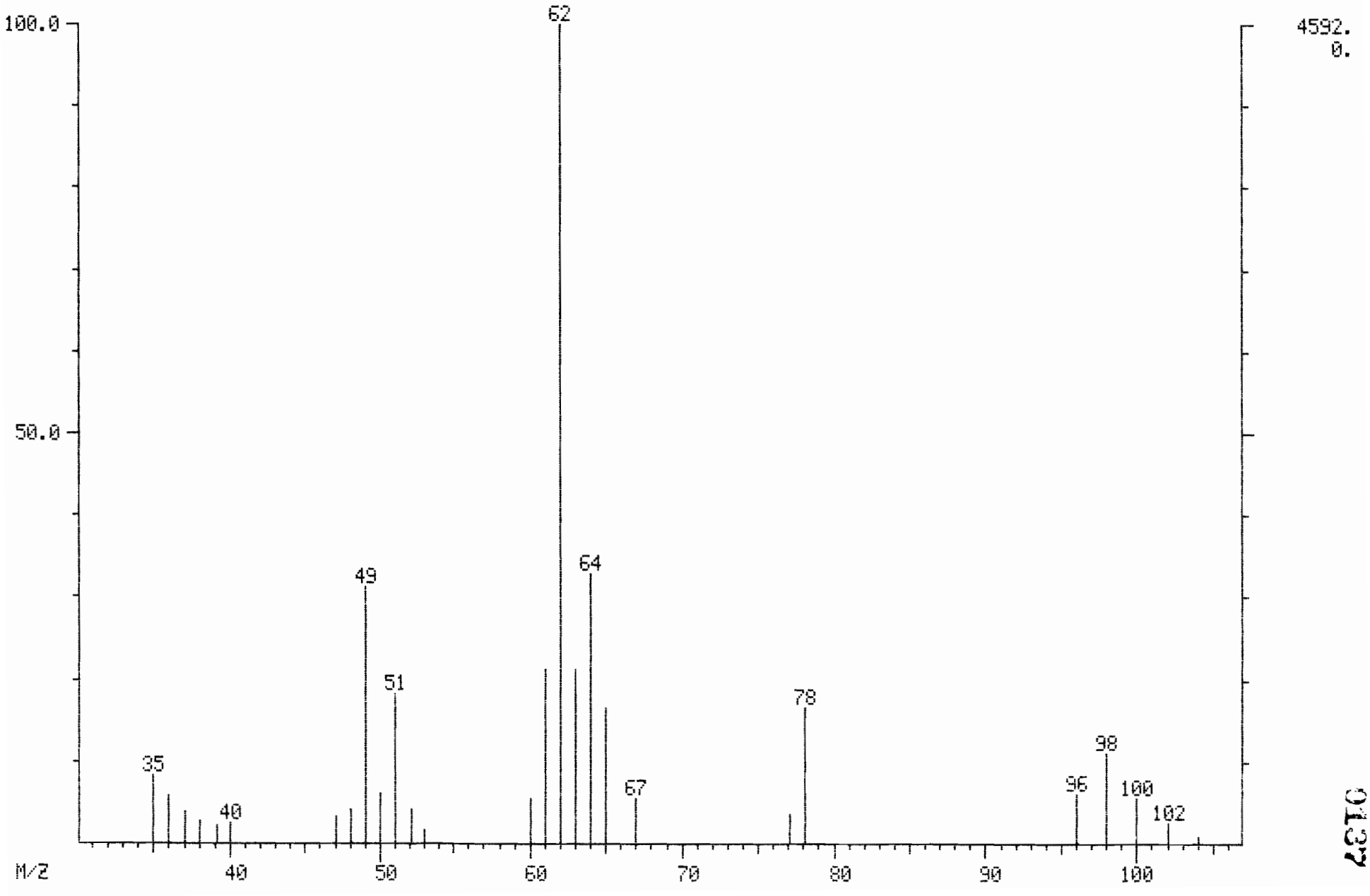
0136

MASS SPECTRUM
12/18/93 4:54:00 + 14:10
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 100 DEG. C

DATA: K8713 #987
CALI: K8713 #3

BASE M/Z: 62
RIC: 15776.

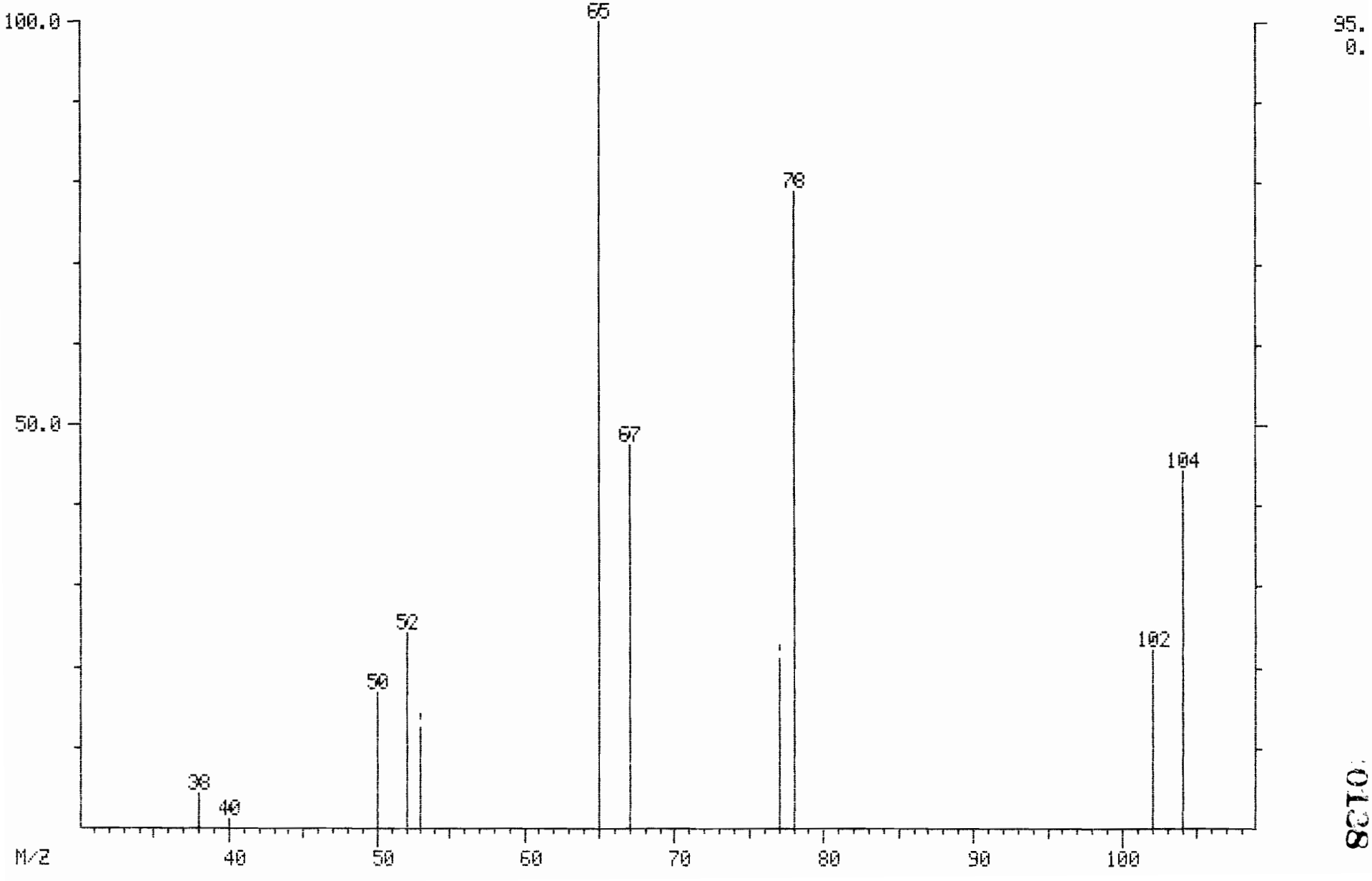
NAME: C165 BENZENE



MASS SPECTRUM
12/18/93 4:54:00 + 14:10
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 100 DEG. C
#987 - #988NAME: C165 BENZENE

DATA: K8713 #987
CALI: K8713 #3

BASE M/Z: 65
RIC: 354.

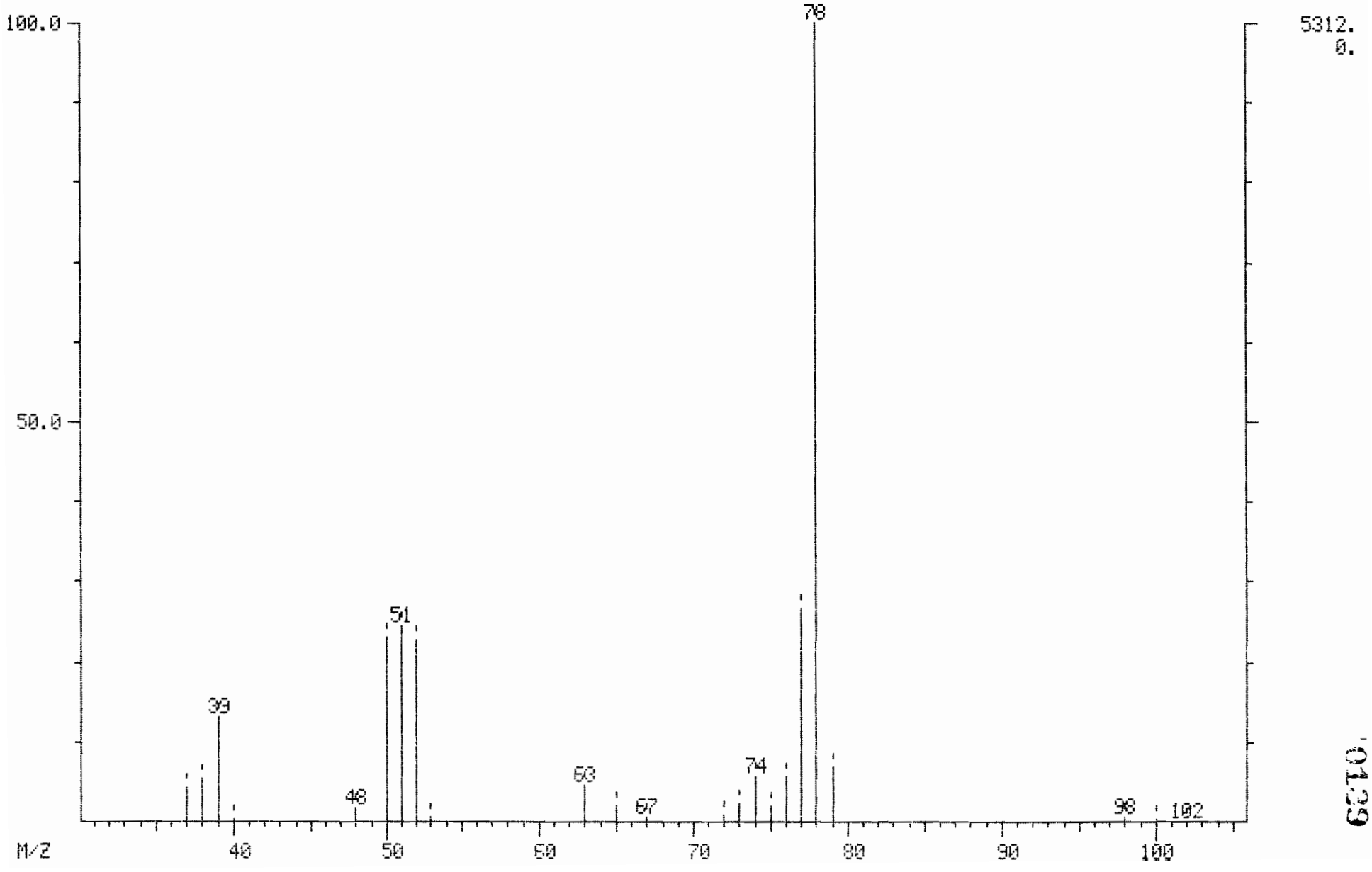


0138

MASS SPECTRUM
12/17/93 19:29:00 + 14:08
SAMPLE: VSTD050
CONDS.: I50K
TEMP: 101 DEG. C
#985 - #986NAME: C165 BENZENE

DATA: K8696 #985
CALI: K8696 #3

BASE M/Z: 78
RIC: 13504.

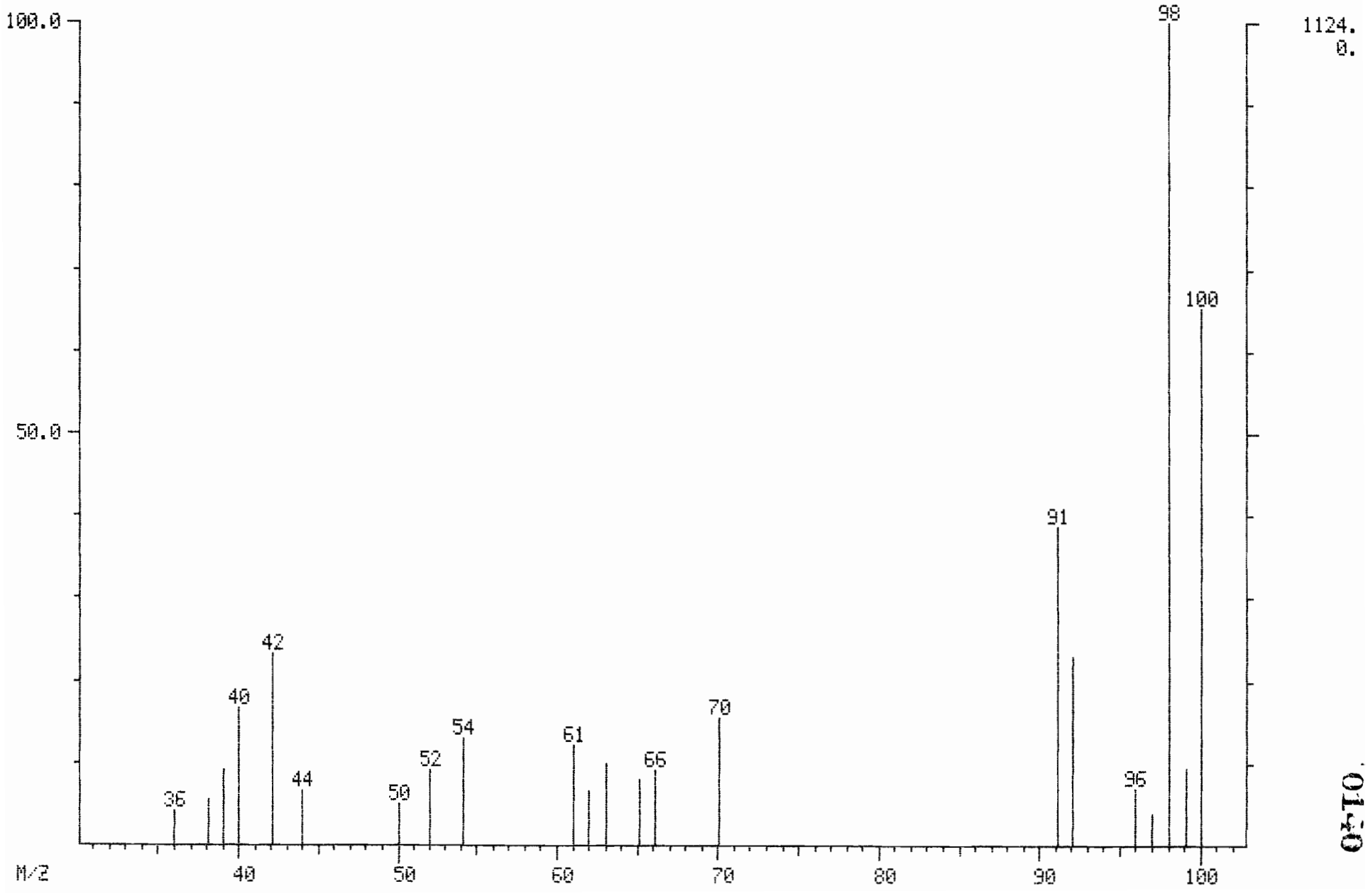


MASS SPECTRUM
12/18/93 4:54:00 + 17:28
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 134 DEG. C

DATA: K8713 #1217
CALI: K8713 #3

BASE M/Z: 98
RIC: 4520.

NAME: C230 TOLUENE

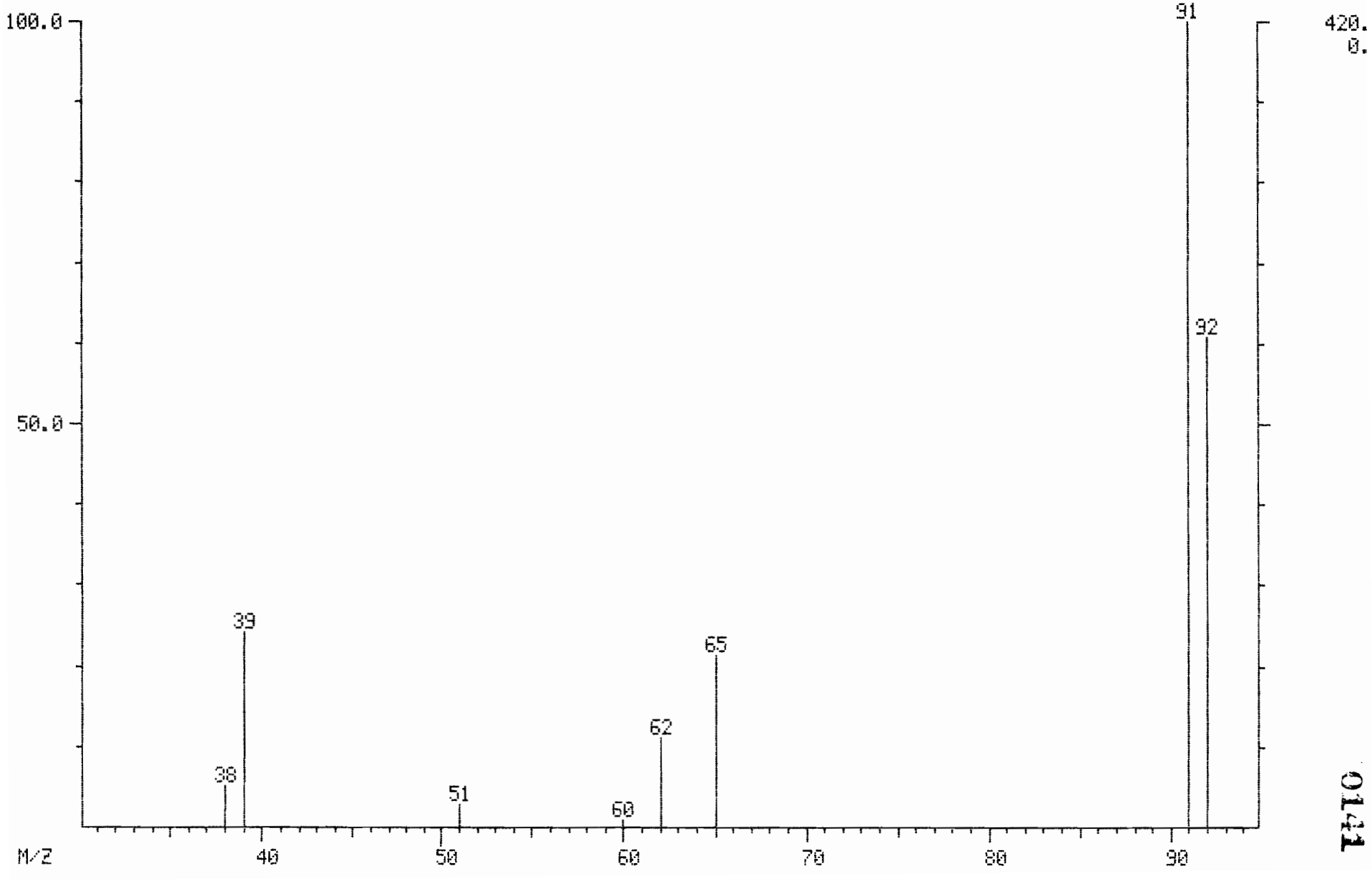


0140

MASS SPECTRUM
12/18/93 4:54:00 + 17:28
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 134 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C230 TOLUENE

DATA: K8713 #1217
CALI: K8713 #3

BASE M/Z: 91
RIC: 952.

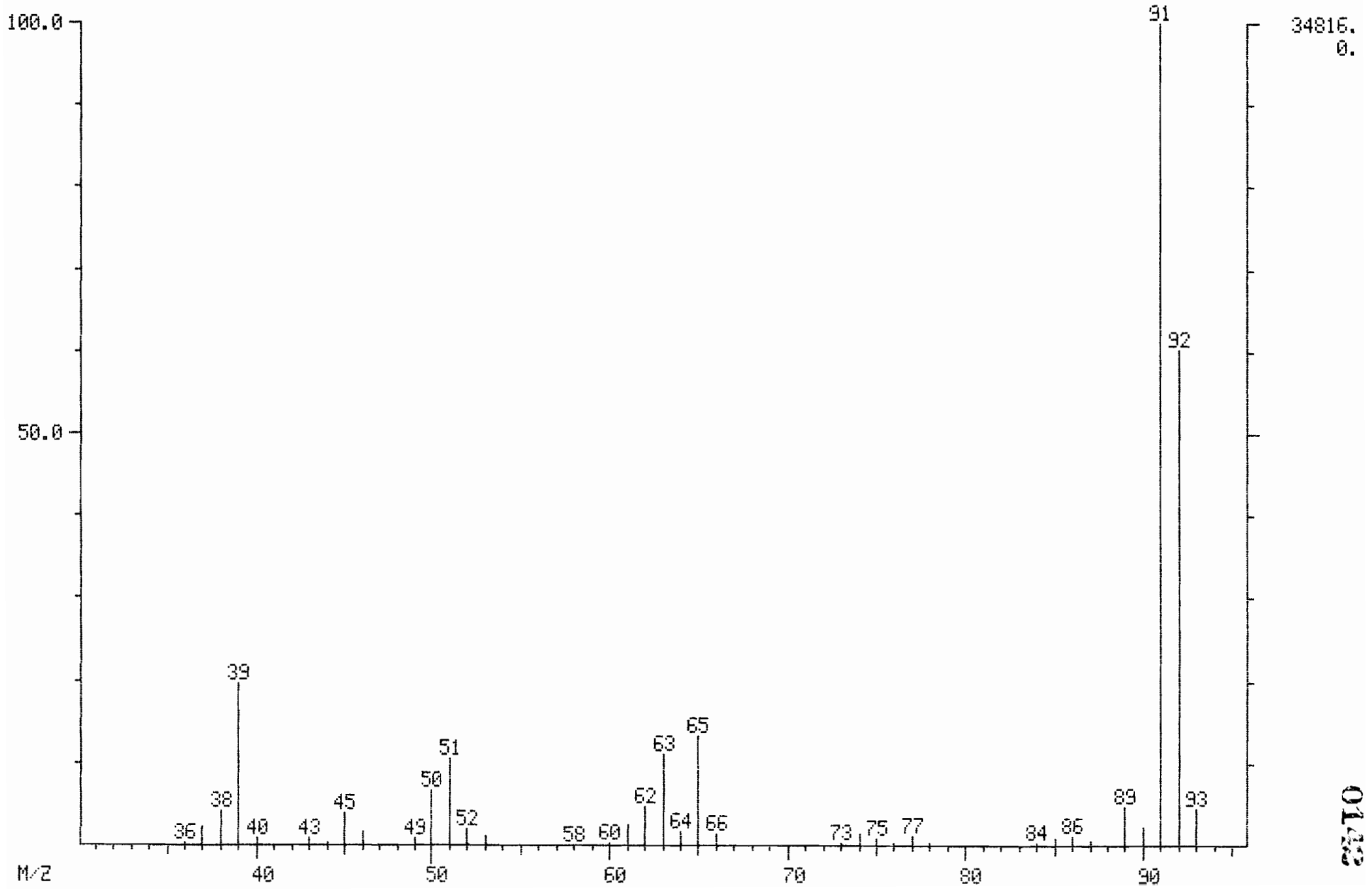


0141

MASS SPECTRUM
12/17/93 19:29:00 + 17:26
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-377 DEG. C
NAME: C230 TOLUENE

DATA: K8696 #1215
ENHANCED (S 15B 2N 0T)

BASE M/Z: 91
RIC: 93440.



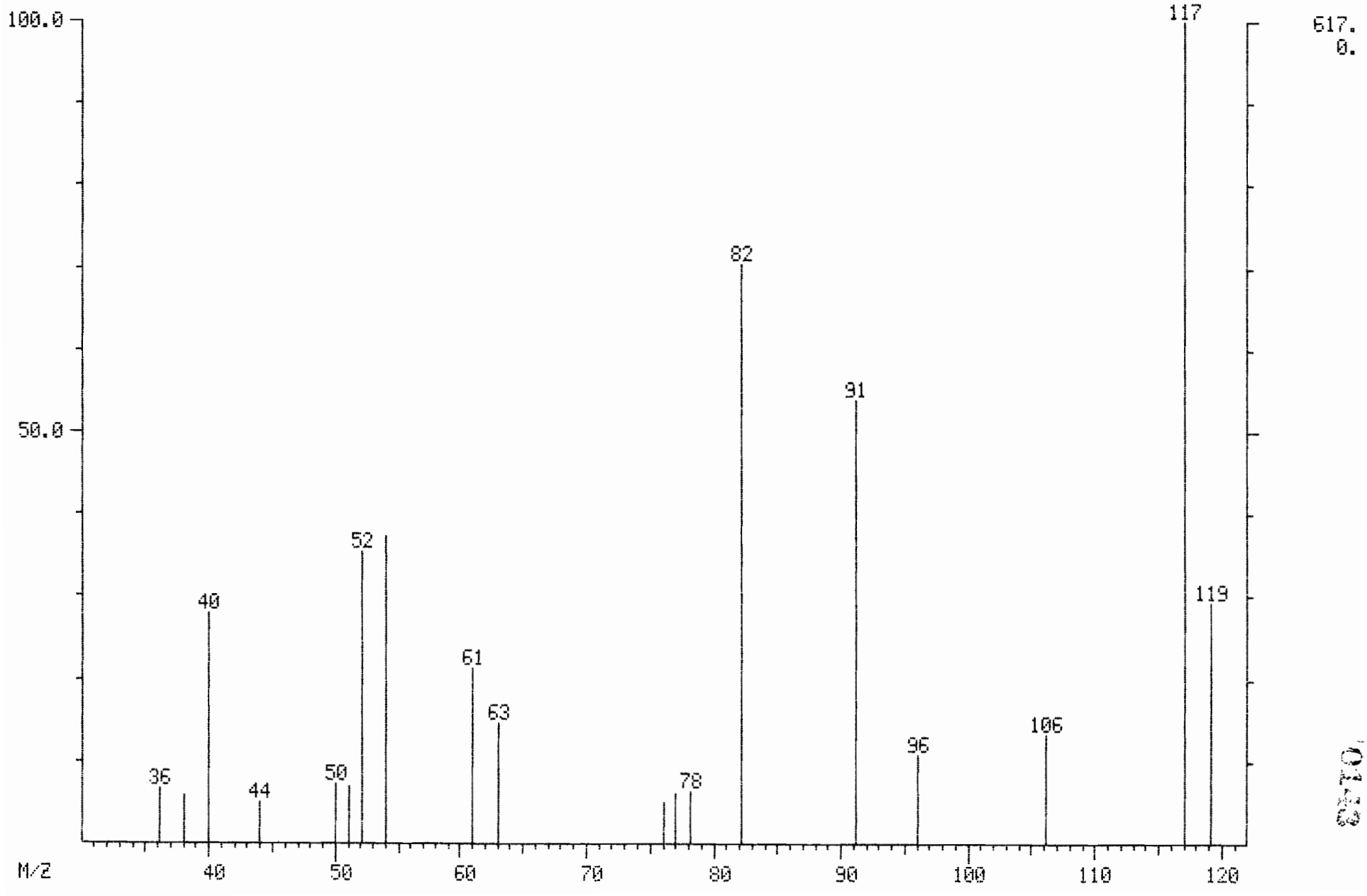
01422

MASS SPECTRUM
12/18/93 4:54:00 + 19:50
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 157 DEG. C

DATA: K8713 #1382
CALI: K8713 #3

BASE M/Z: 117
RIC: 2856.

NAME: C240 ETHYLBENZENE

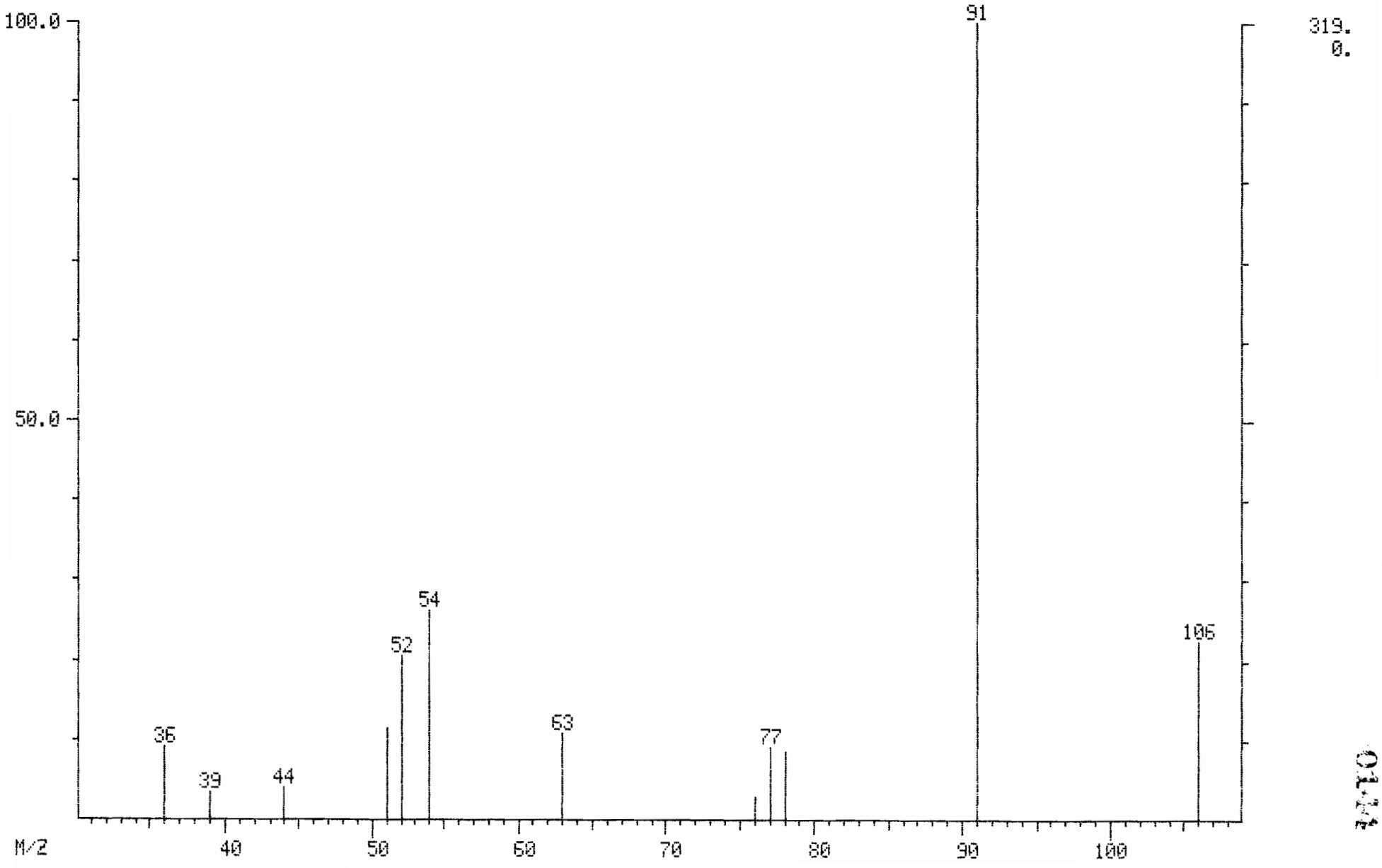


0133

MASS SPECTRUM
12/18/93 4:54:00 + 19:50
SAMPLE: AS053078 JOB4488
CONDS.: I50K
TEMP: 157 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C240 ETHYLBENZENE

DATA: K8713 #1382
CALI: K8713 #3

BASE M/Z: 91
RIC: 727.

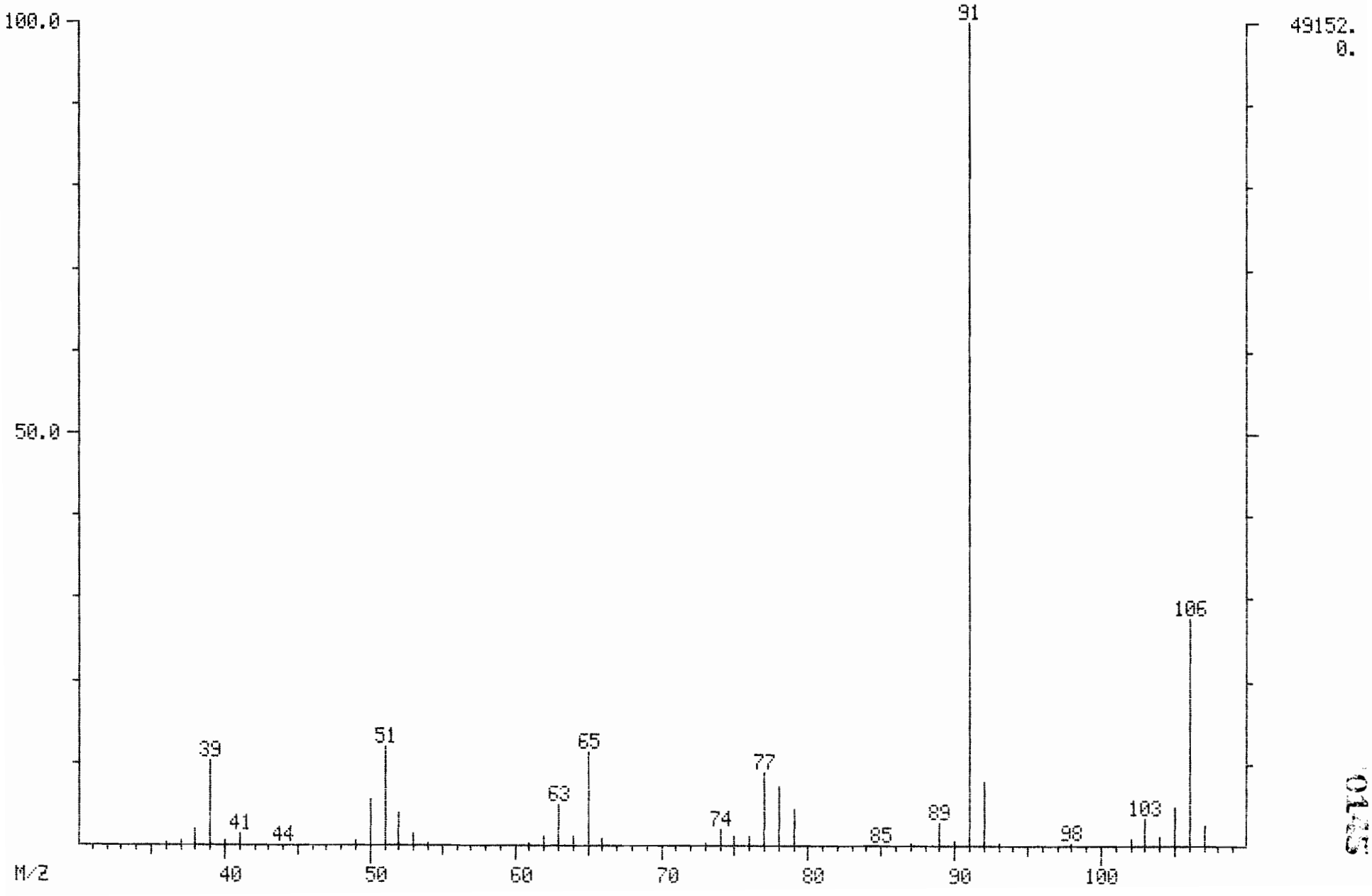


MASS SPECTRUM
12/17/93 19:29:00 + 19:49
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-353 DEG. C

DATA: K8696 #1380
ENHANCED (S 15B 2N 0T)

BASE M/Z: 91
RIC: 115584.

NAME: C240 ETHYLBENZENE



0423

INTERNAL STANDARD QUANTITATION REPORT: AMOUNTS BASED ON AREA

Quantitation Report File: K8713

Data: K8713.TI
12/18/93 4:54:00
Sample: AS053078 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	0-00-0	CI10 1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	0-00-0	CI20 D5-CHLOROBENZENE *INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	899	12:54	1	1.000	A BB	236832.	250.000 NG	33.33
2	TOT	1034	14:51	2	1.000	A BB	355608.	250.000 NG	33.33
3	TOT	1369	19:39	3	1.000	A BB	415701.	250.000 NG	33.33

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
184802DL

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053078DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8728

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 20.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	200	U
74-83-9	Bromomethane	200	U
75-01-4	Vinyl Chloride	510	D
75-00-3	Chloroethane	200	U
75-09-2	Methylene Chloride	200	U
67-64-1	Acetone	200	U
75-15-0	Carbon Disulfide	200	U
75-35-4	1,1-Dichloroethene	12	DJ
75-34-3	1,1-Dichloroethane	730	D
540-59-0	1,2-Dichloroethene (total)	2900	D
67-66-3	Chloroform	200	U
107-06-2	1,2-Dichloroethane	200	U
78-93-3	2-Butanone	200	U
71-55-6	1,1,1-Trichloroethane	200	U
56-23-5	Carbon Tetrachloride	200	U
75-27-4	Bromodichloromethane	200	U
78-87-5	1,2-Dichloropropane	200	U
10061-01-5	cis-1,3-dichloropropene	200	U
79-01-6	Trichloroethene	320	D
124-48-1	Dibromochloromethane	200	U
79-00-5	1,1,2-Trichloroethane	200	U
71-43-2	Benzene	200	U
10061-02-6	trans-1,3-dichloropropene	200	U
75-25-2	Bromoform	200	U
108-10-1	4-Methyl-2-Pentanone	200	U
591-78-6	2-Hexanone	200	U
127-18-4	Tetrachloroethene	200	U
79-34-5	1,1,2,2-Tetrachloroethane	200	U
108-88-3	Toluene	200	U
108-90-7	Chlorobenzene	200	U
100-41-4	Ethylbenzene	200	U
100-42-5	Styrene	200	U
1330-20-7	Total Xylenes	200	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

184802DL

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053078DL

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8728

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 20.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

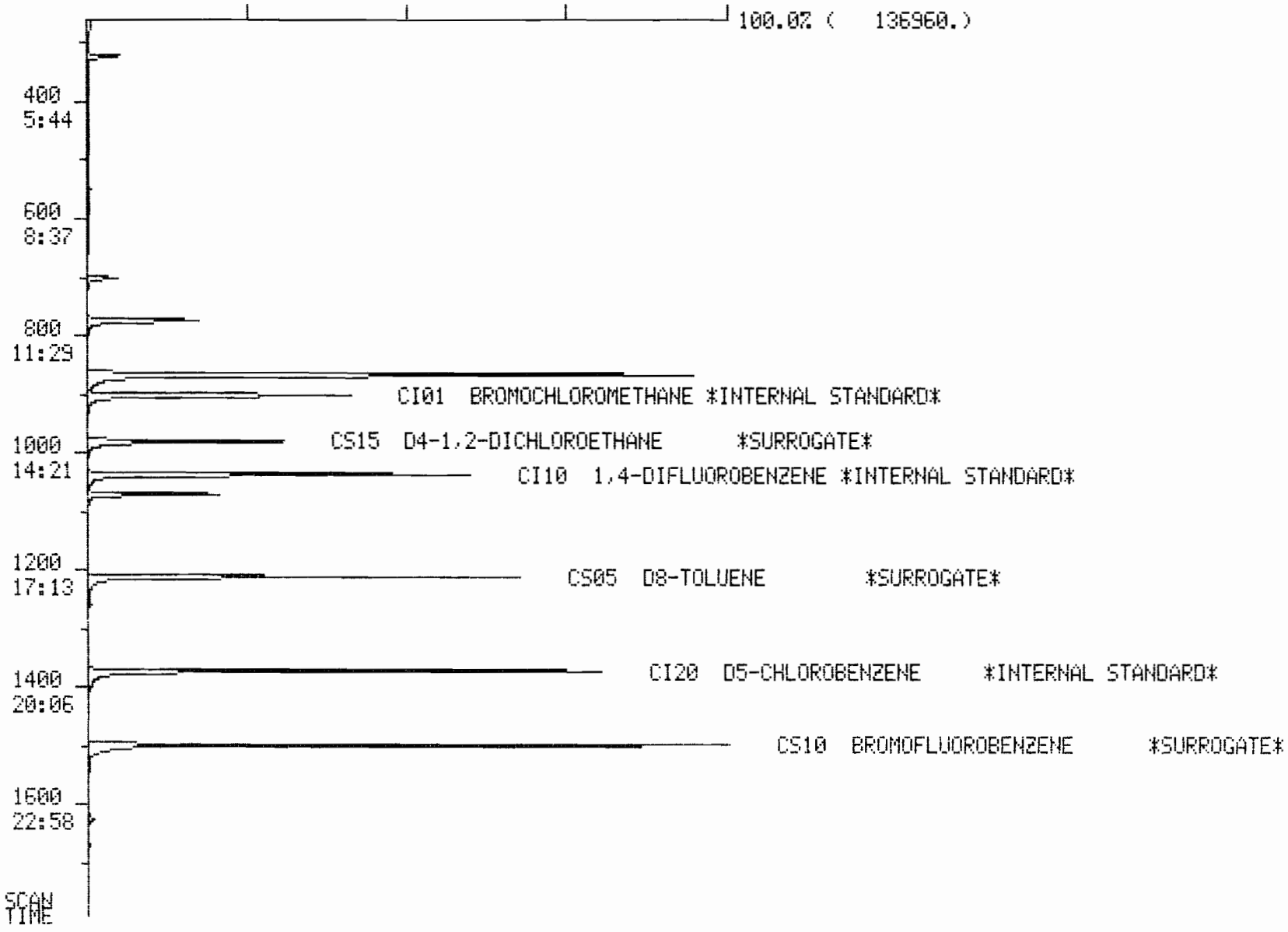
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

DATA FROM FILE: K8728 SCANS 260 TO 1790 ACQUIRED: 12/18/93 15:34:00
CALI: K8728 #3

SAMPLE: AS053078DL JOB4488
CONDS.: I50K



Quantitation Report File: K8728

Data: K8728.TI
/18/93 15:34:00
mple: AS053078DL JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
15	C050	1,1-DICHLOROETHANE
16	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
41	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

SS
GD
12/20/93
mf

No	Name
48	C246 M,P-XYLENE
7	C247 O-XYLENE
0	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	899	12:54	1	1.000	A BB	36486.	250.000	NG	9.69
2	114	1035	14:51	2	1.000	A BB	142513.	250.000	NG	9.69
3	117	1370	19:40	3	1.000	A BB	129779.	250.000	NG	9.69
4	65	978	14:02	1	1.088	A BB	84577.	261.777	NG	10.15
5	98	1210	17:22	3	0.883	A BB	134432.	246.219	NG	9.54
6	95	1496	21:28	3	1.092	A BB	121970.	258.576	NG	10.02
7	NOT FOUND									
8	NOT FOUND									
9	62	319	4:35	1	0.355	A BB	21253.	128.182	NG	4.97
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	96	549	7:53	1	0.611	A BB	420.	2.958	NG	0.11
15	63	772	11:05	1	0.859	A BB	75750.	183.400	NG	7.11
16	96	699	10:02	1	0.778	A BB	7130.	40.645	NG	1.58
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	96	864	12:24	1	0.961	A BB	136904. (144034)	628.836 (732.675)	NG	24.38
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	130	1068	15:20	2	1.032	A BB	21313.	79.451	NG	3.08
32	NOT FOUND									
33	NOT FOUND									
34	NOT FOUND									
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	NOT FOUND									
45	NOT FOUND									
46	NOT FOUND									
47	NOT FOUND									
48	NOT FOUND									
49	NOT FOUND									
50	NOT FOUND									

7130

1,2-Dichloroethene (TOTAL) = #16 + #24

RF=1.347

12/28/93

Quantitation Report File: K8728

Data: K8728.TI
/18/93 15:34:00
mple: AS053078DL JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

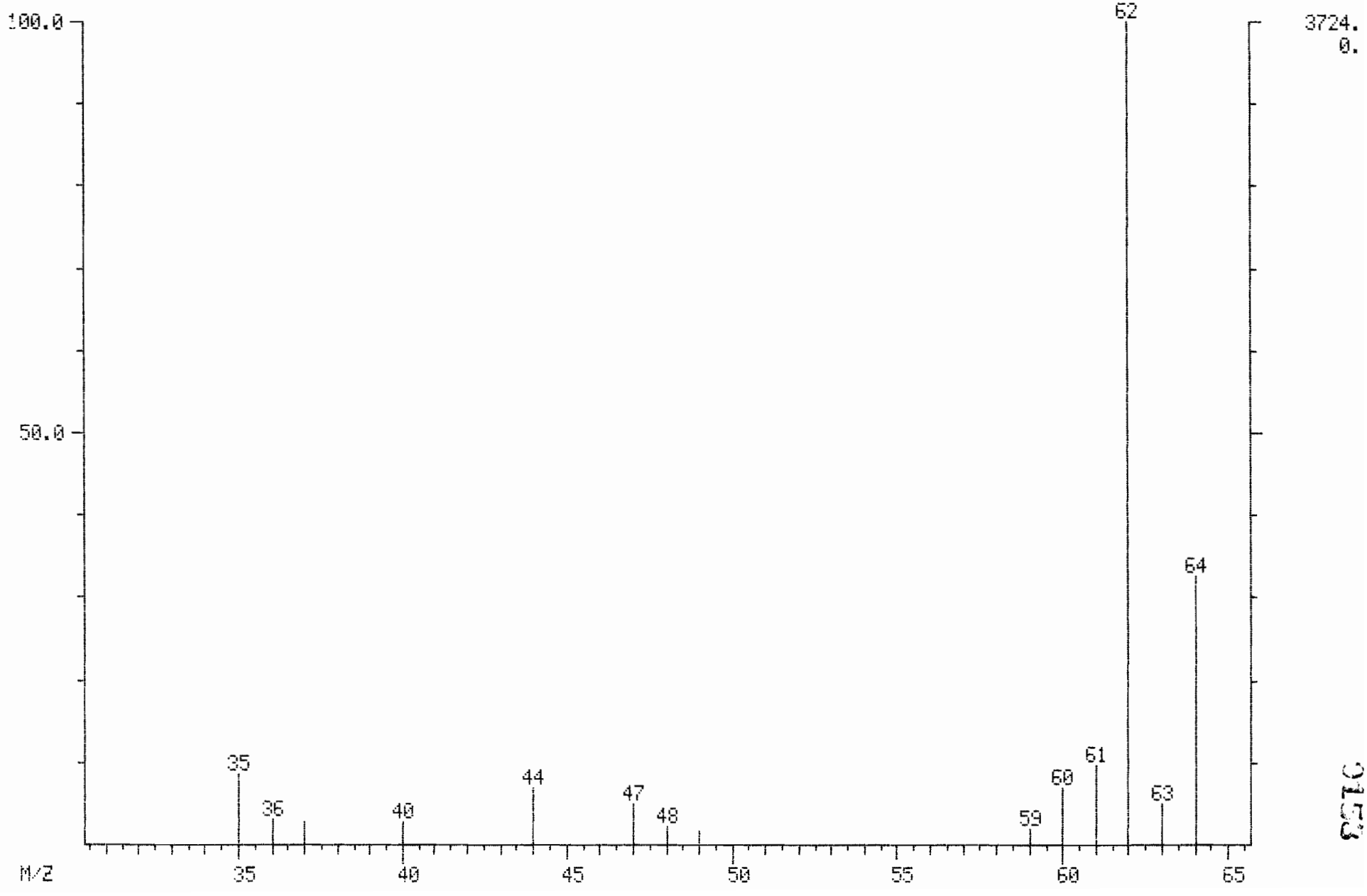
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

MASS SPECTRUM
12/18/93 15:34:00 + 4:35
SAMPLE: AS053078DL J0B4488
CONDS.: I50K
TEMP: 40 DEG. C

DATA: K8728 #319
CALI: K8728 #3

BASE M/Z: 62
RIC: 7040.

NAME: C020 VINYL CHLORIDE

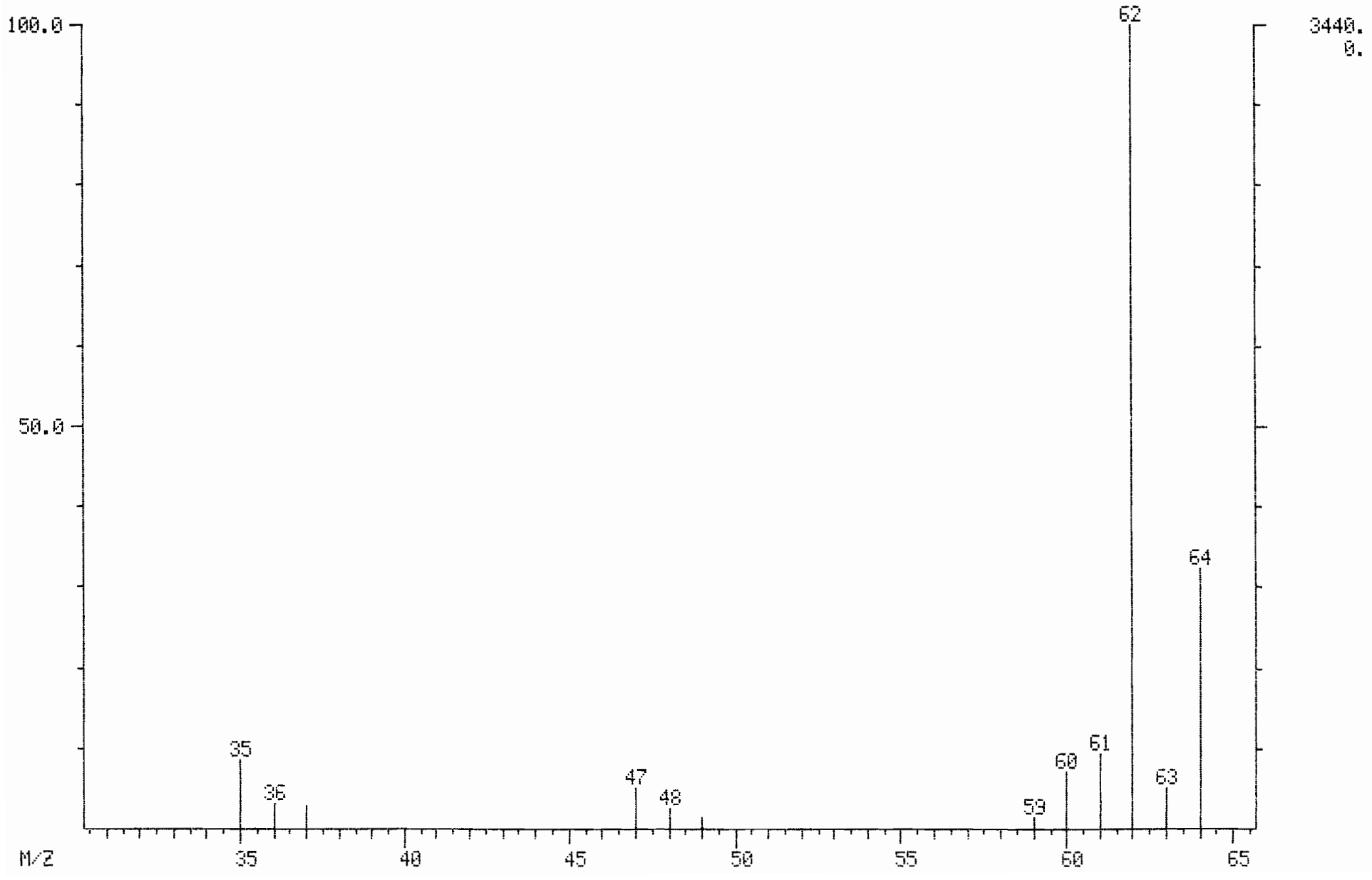


C153

MASS SPECTRUM
12/18/93 15:34:00 + 4:35
SAMPLE: A5053078DL JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C020 VINYL CHLORIDE

DATA: K8728 #319
CALI: K8728 #3

BASE M/Z: 62
RIC: 6168.



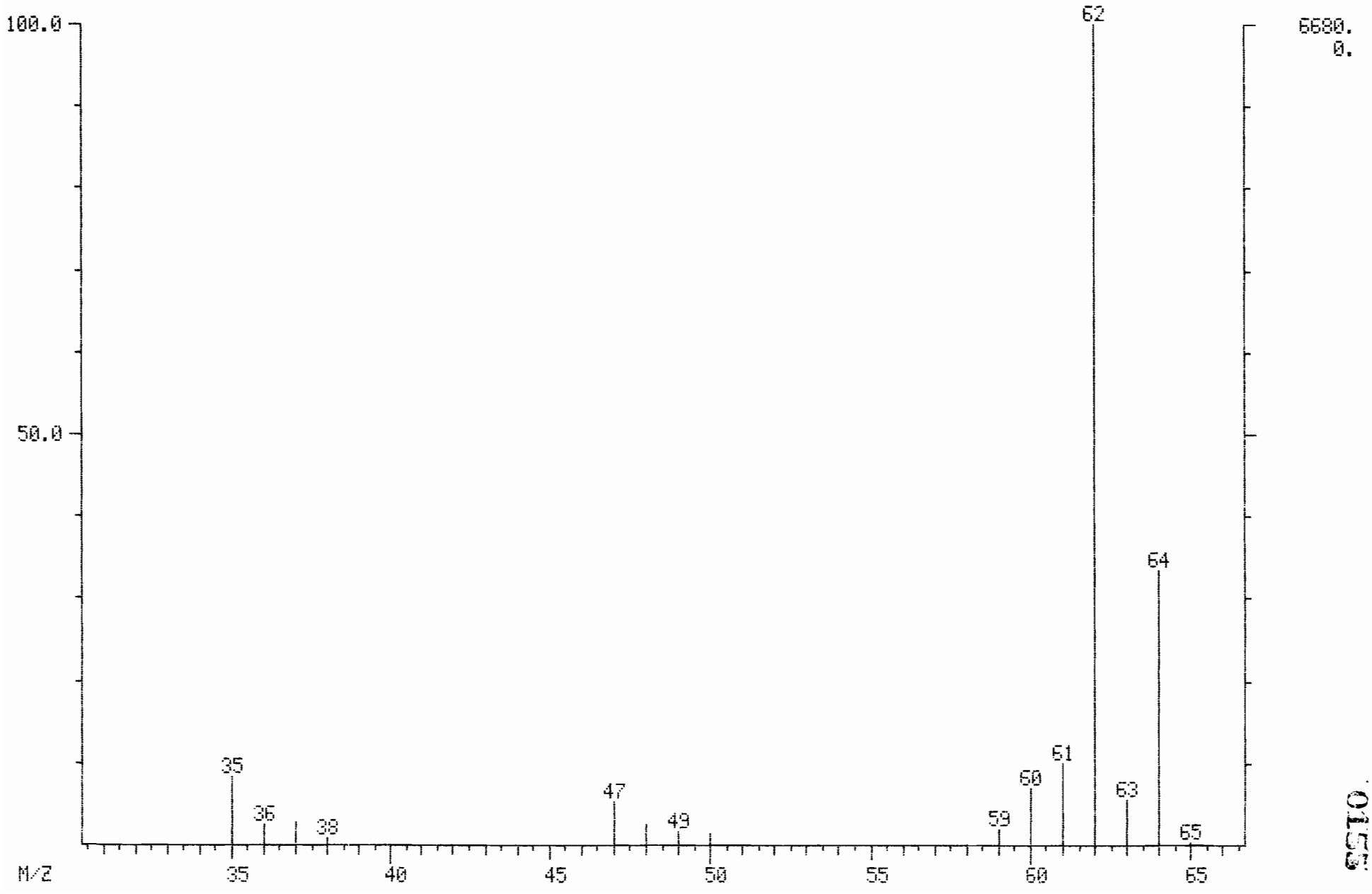
0154

MASS SPECTRUM
12/18/93 13:17:00 + 4:33
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C

DATA: K8724 #317
ENHANCED (S 15B 2N 0T)

BASE M/Z: 62
RIC: 12224.

NAME: C020 VINYL CHLORIDE

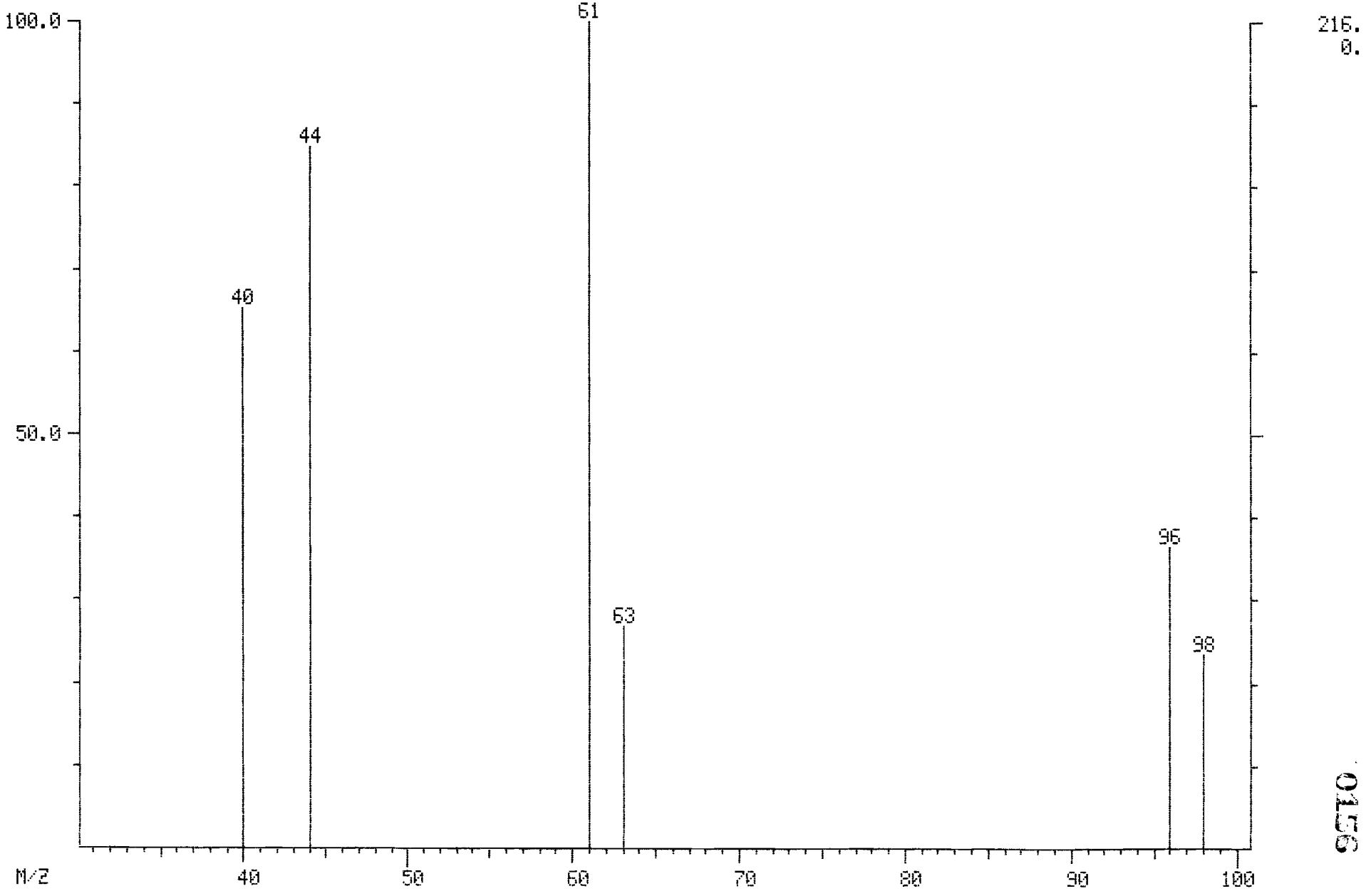


0153

MASS SPECTRUM
12/18/93 15:34:00 + 7:53
SAMPLE: AS053078DL JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
NAME: C045 1,1-DICHLOROETHENE

DATA: K8728 #549
CALI: K8728 #3

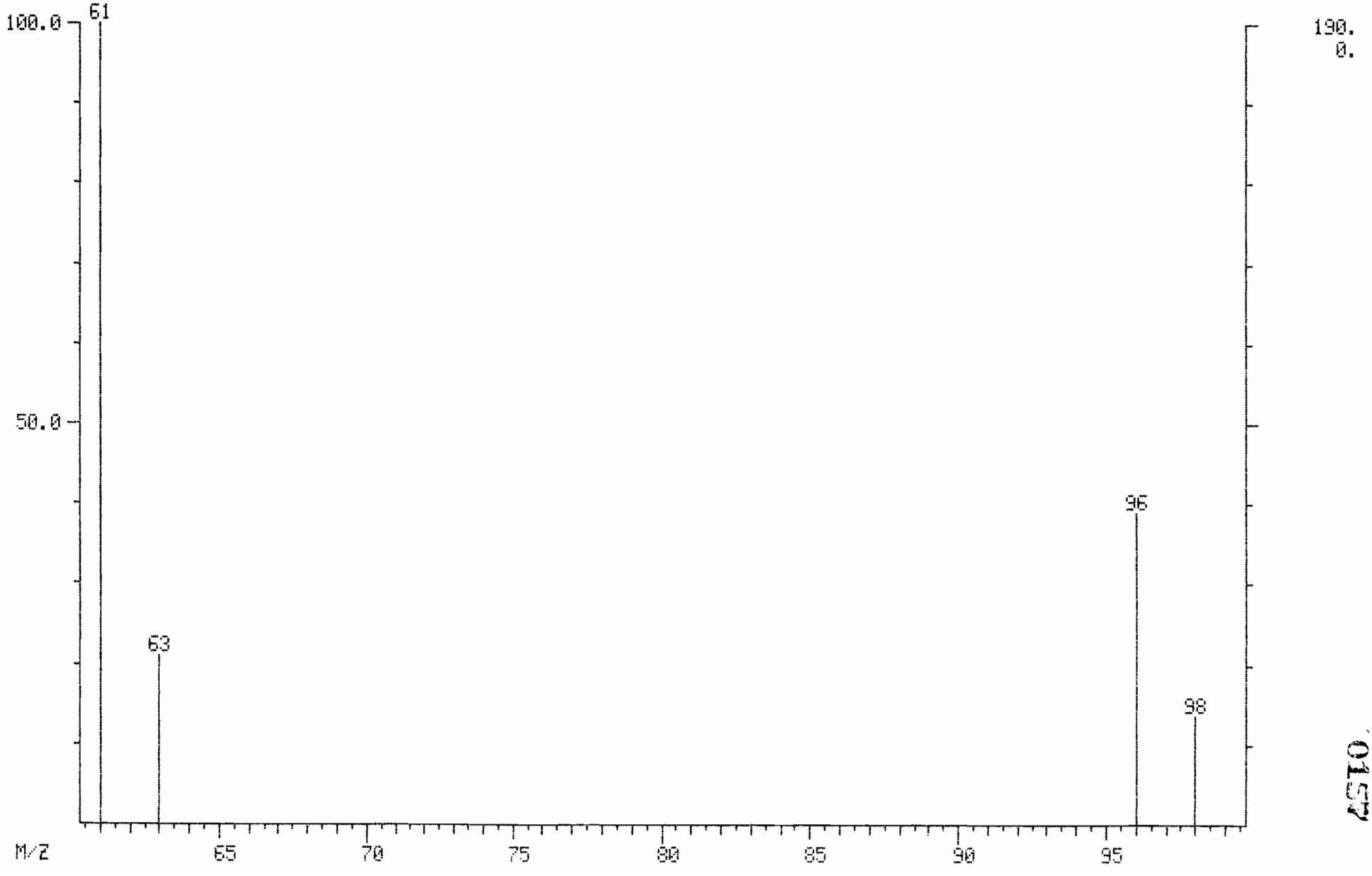
BASE M/Z: 61
RIC: 728.



MASS SPECTRUM
12/18/93 15:34:00 + 7:53
SAMPLE: AS053078DL J0B4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C045 1,1-DICHLOROETHENE

DATA: K8728 #549
CALI: K8728 #3

BASE M/Z: 61
RIC: 330.

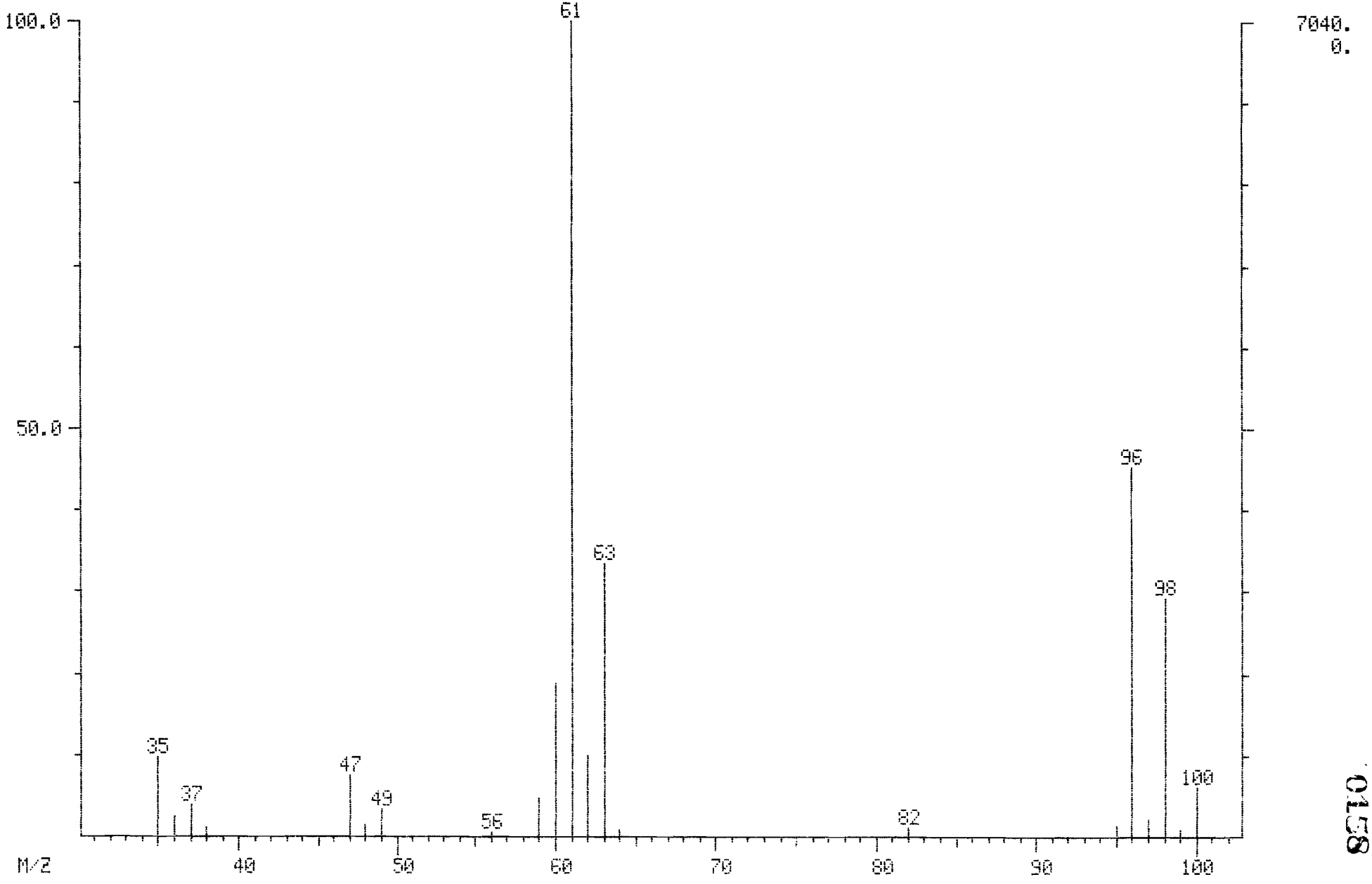


0157

MASS SPECTRUM
12/18/93 13:17:00 + 7:51
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C
NAME: C045 1,1-DICHLOROETHENE

DATA: K8724 #547
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 19968.



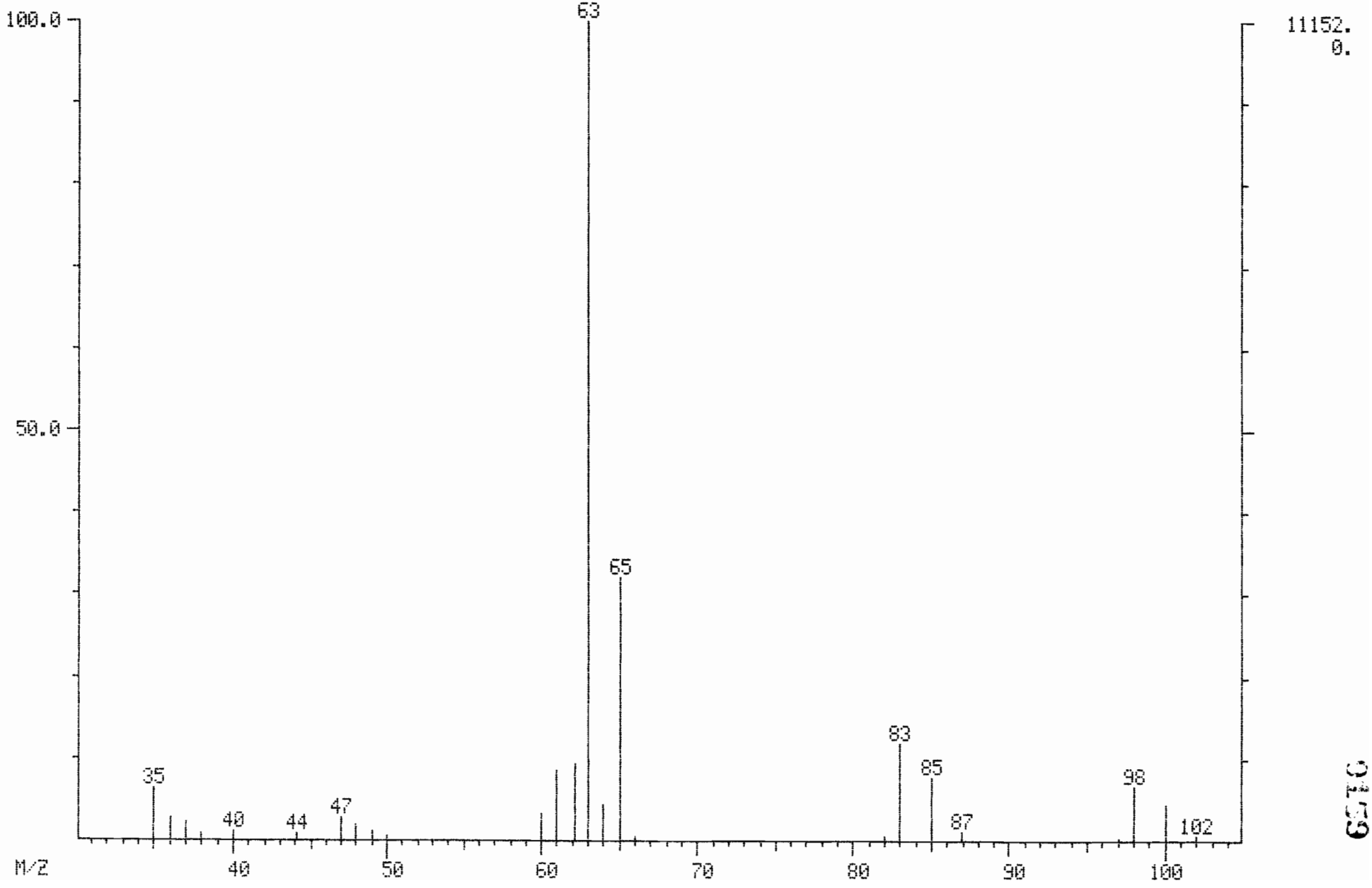
0158

MASS SPECTRUM
12/18/93 15:34:00 + 11:05
SAMPLE: AS053078DL JOB4488
CONDS.: I50K
TEMP: 70 DEG. C

DATA: K8728 #772
CALI: K8728 #3

BASE M/Z: 63
RIC: 23648.

NAME: C050 1,1-DICHLOROETHANE

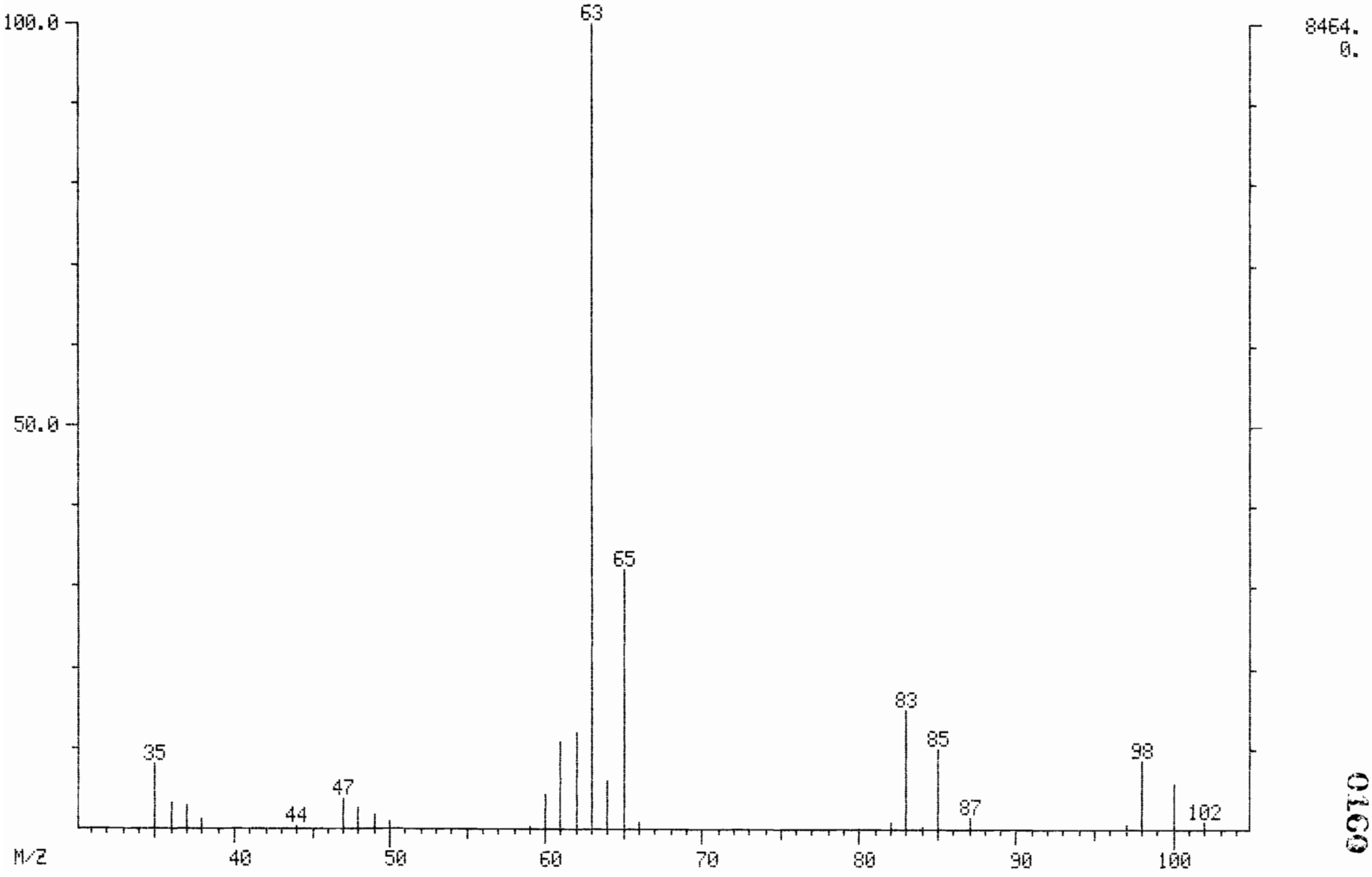


6579

MASS SPECTRUM
12/18/93 15:34:00 + 11:05
SAMPLE: AS053078DL JOB4488
CONDS.: I50K
TEMP: 70 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C050 1,1-DICHLOROETHANE

DATA: K8728 #772
CALI: K8728 #3

BASE M/Z: 63
RIC: 19744.

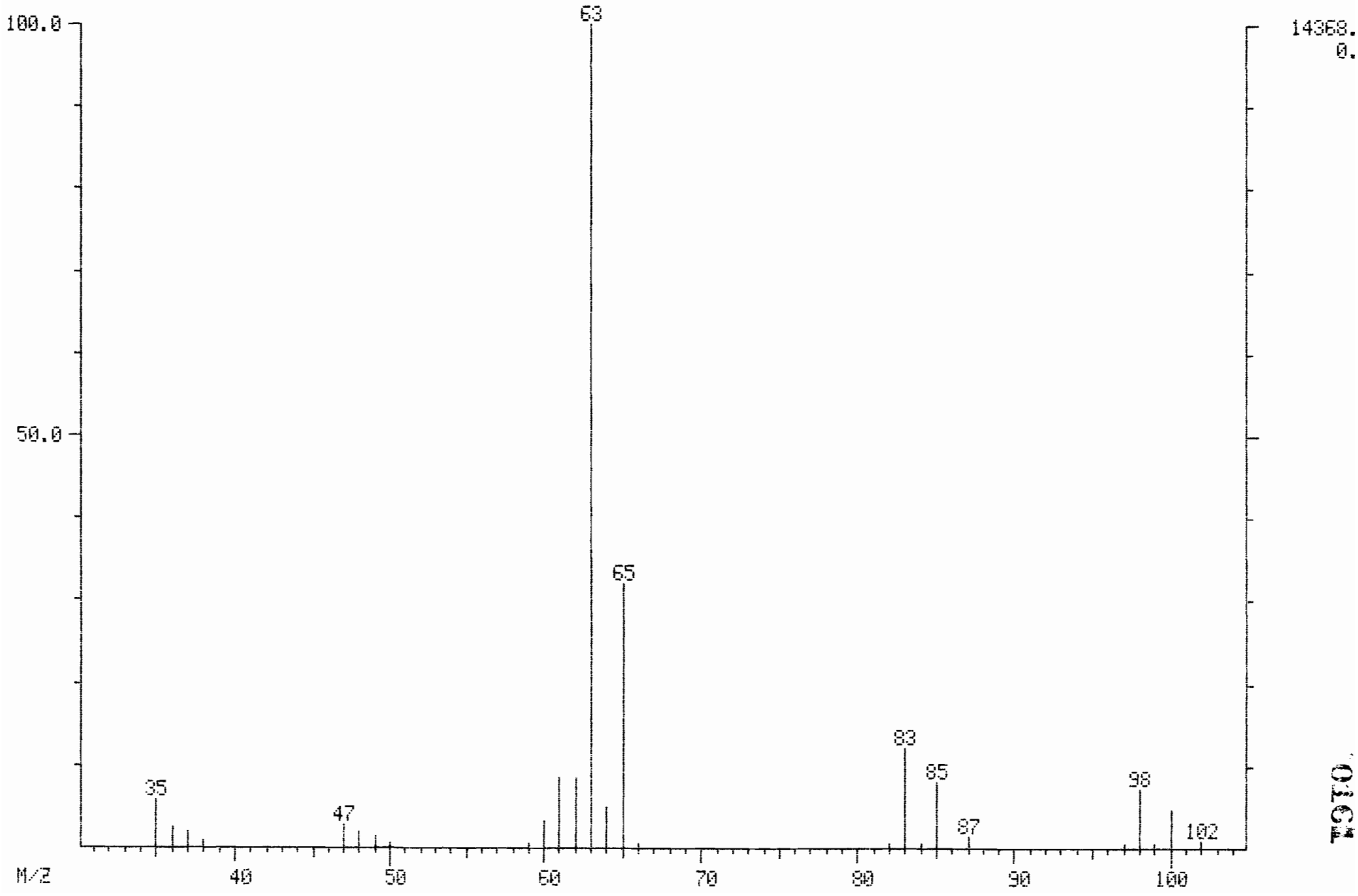


0160

MASS SPECTRUM
12/18/93 13:17:00 + 11:04
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-441 DEG. C
NAME: C050 1,1-DICHLOROETHANE

DATA: K8724 #771
ENHANCED (S 15B 2N 0T)

BASE M/Z: 63
RIC: 30528.



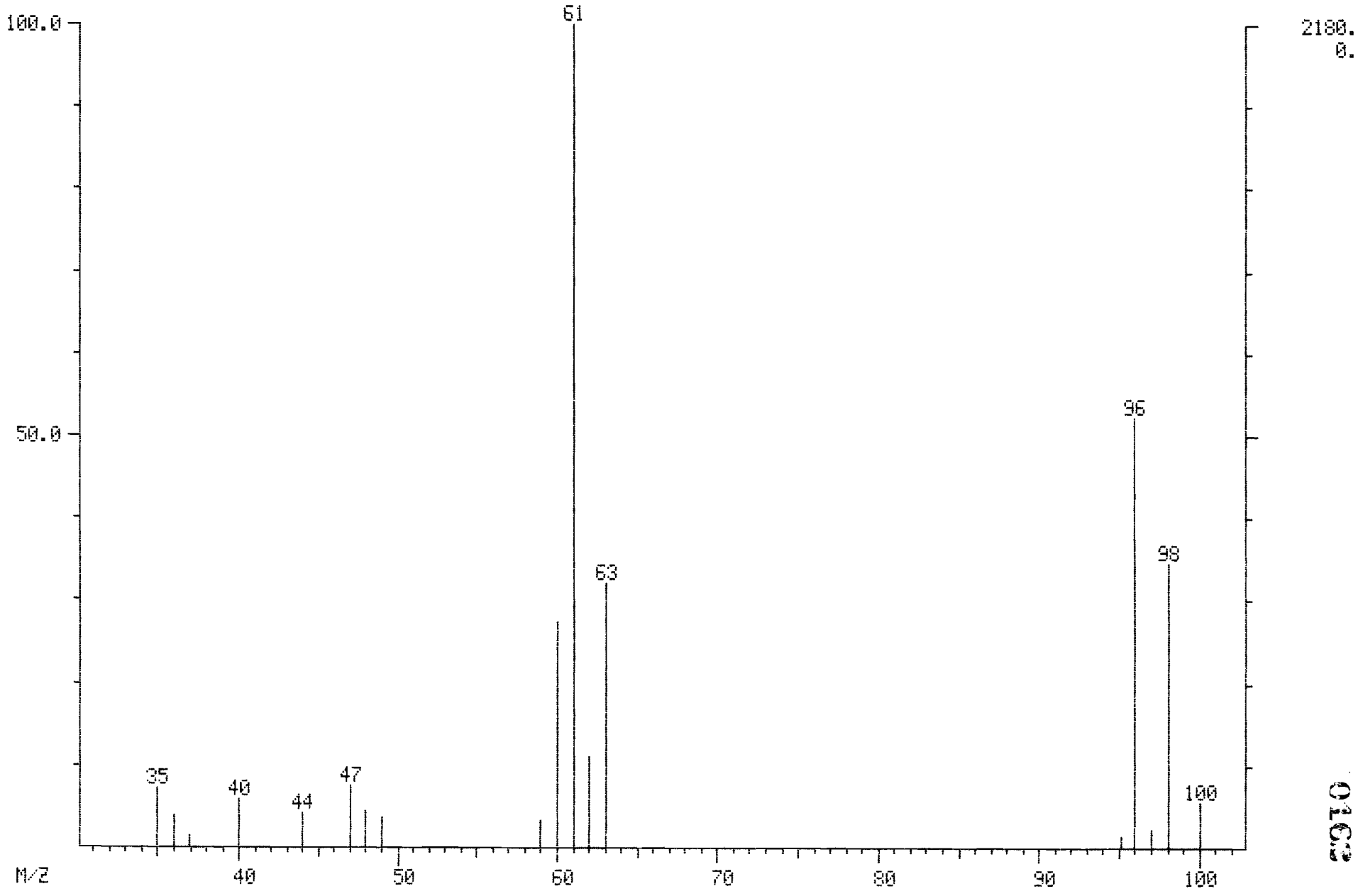
0164

MASS SPECTRUM
12/18/93 15:34:00 + 10:02
SAMPLE: AS053078DL JOB4488
CONDS.: I50K
TEMP: 59 DEG. C

DATA: K8728 #699
CALI: K8728 #3

BASE M/Z: 61
RIC: 6712.

NAME: C057 TRANS-1,2-DICHLOROETHENE

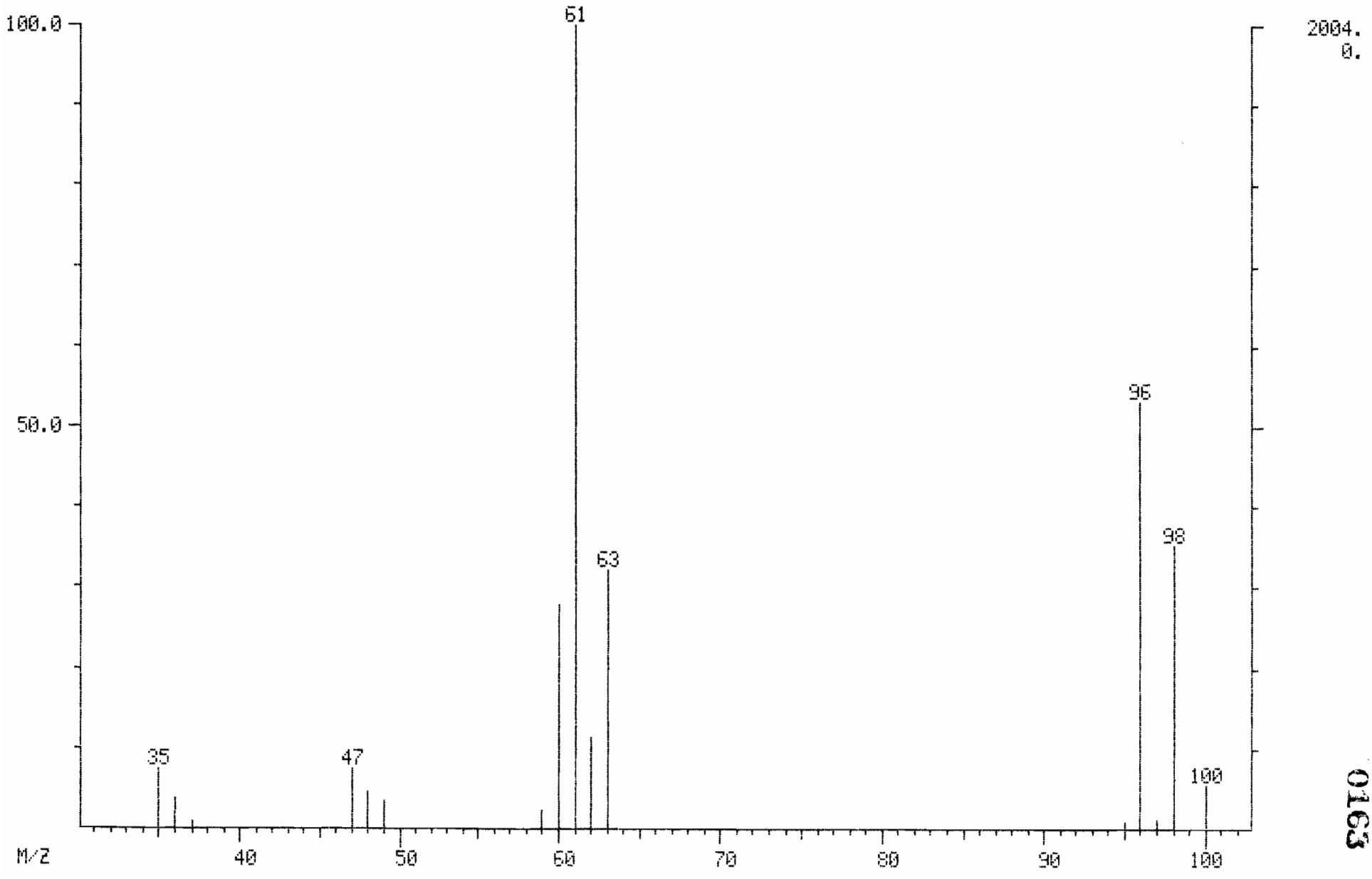


0163

MASS SPECTRUM
12/18/93 15:34:00 + 10:02
SAMPLE: AS053078DL JOB4488
CONDS.: I50K
TEMP: 59 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C057 TRANS-1,2-DICHLOROETHENE

DATA: K8728 #699
CALI: K8728 #3

BASE M/Z: 61
RIC: 5936.

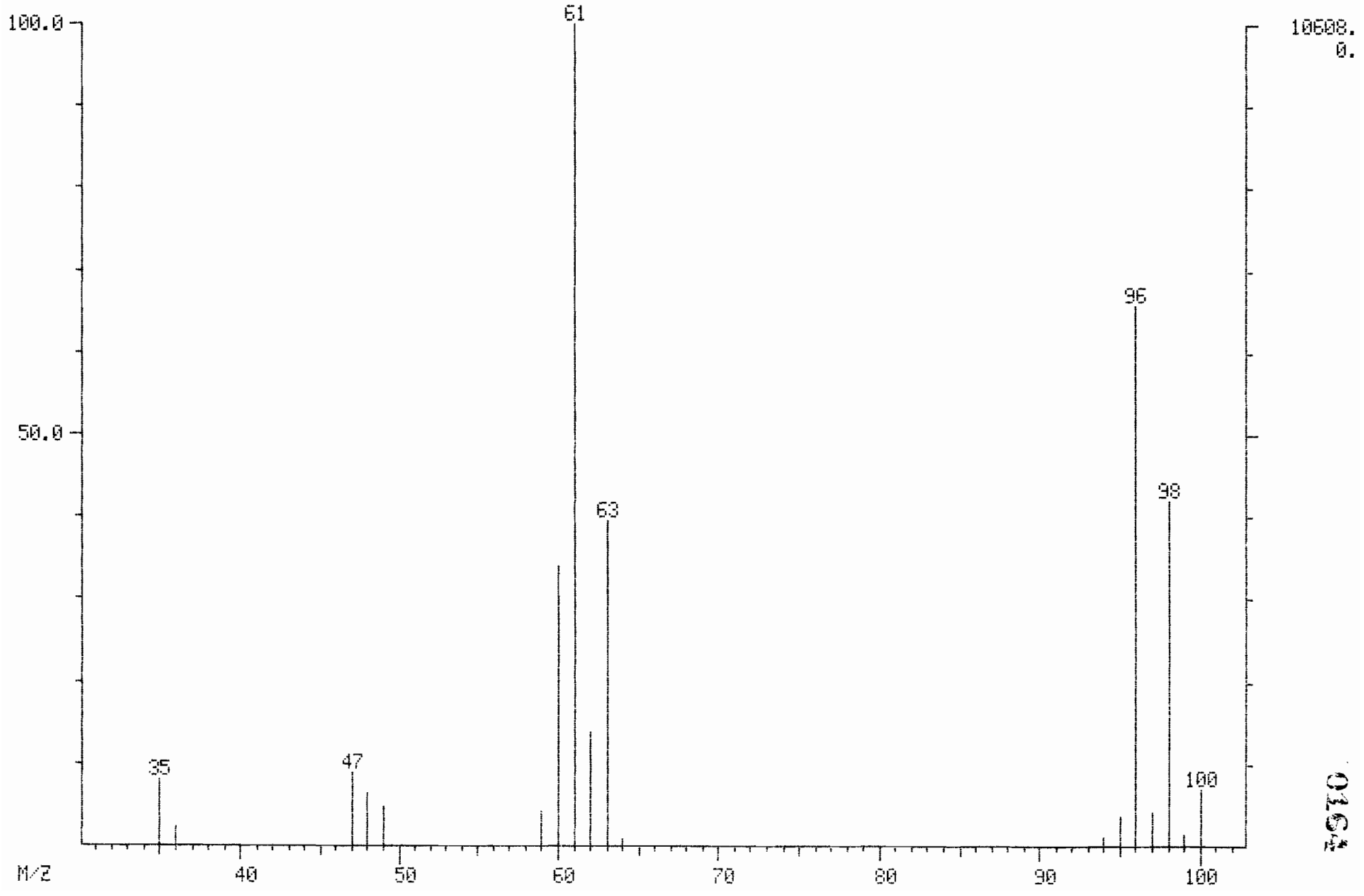


0163

MASS SPECTRUM
12/18/93 13:17:00 + 10:02
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-452 DEG. C
NAME: C057 TRANS-1,2-DICHLOROETHENE

DATA: K8724 #699
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 36864.

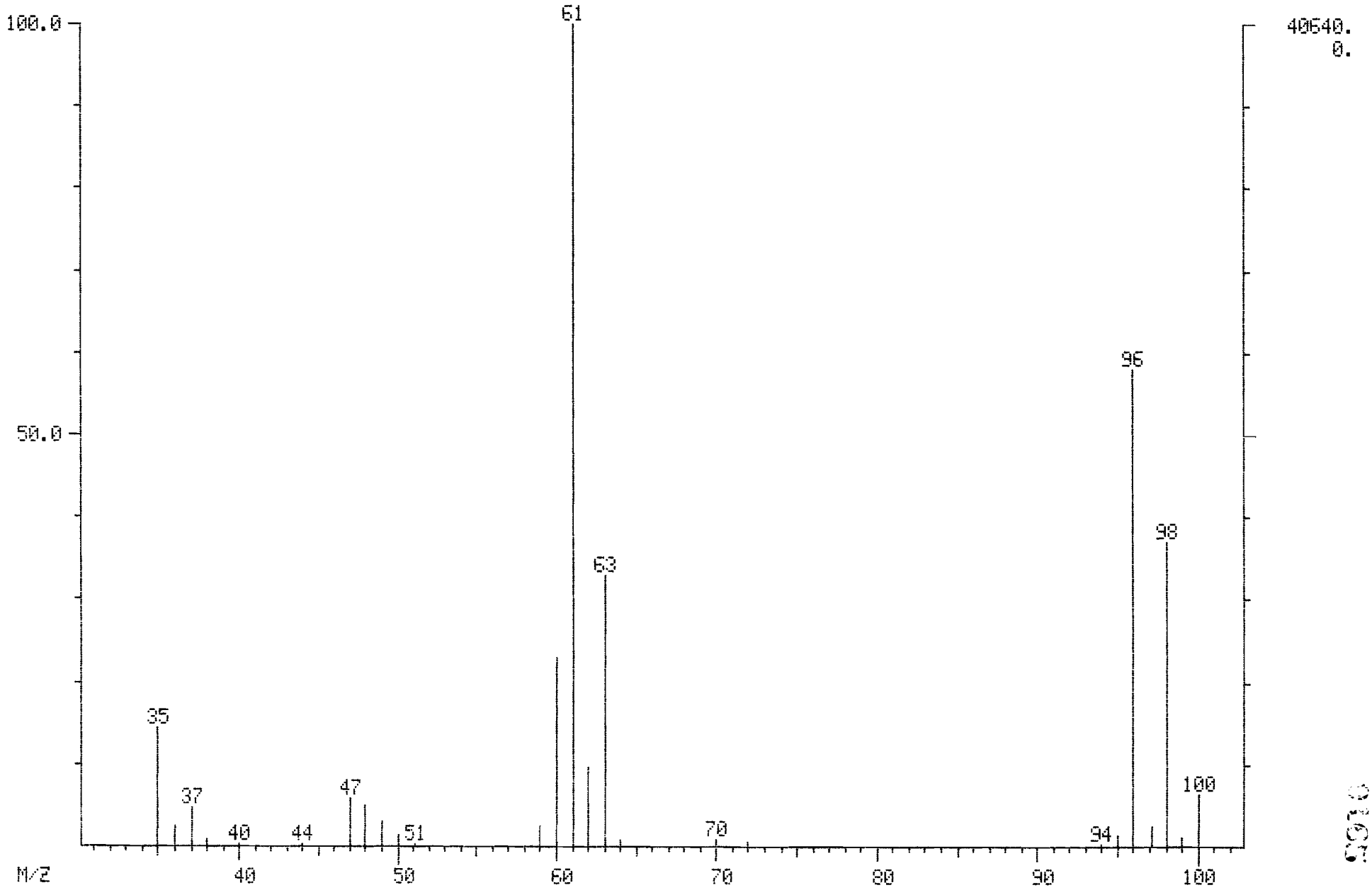


MASS SPECTRUM
12/18/93 15:34:00 + 12:24
SAMPLE: AS053078DL JOB4488
CONDS.: I50K
TEMP: 83 DEG. C

DATA: K8728 #864
CALI: K8728 #3

BASE M/Z: 61
RIC: 128128.

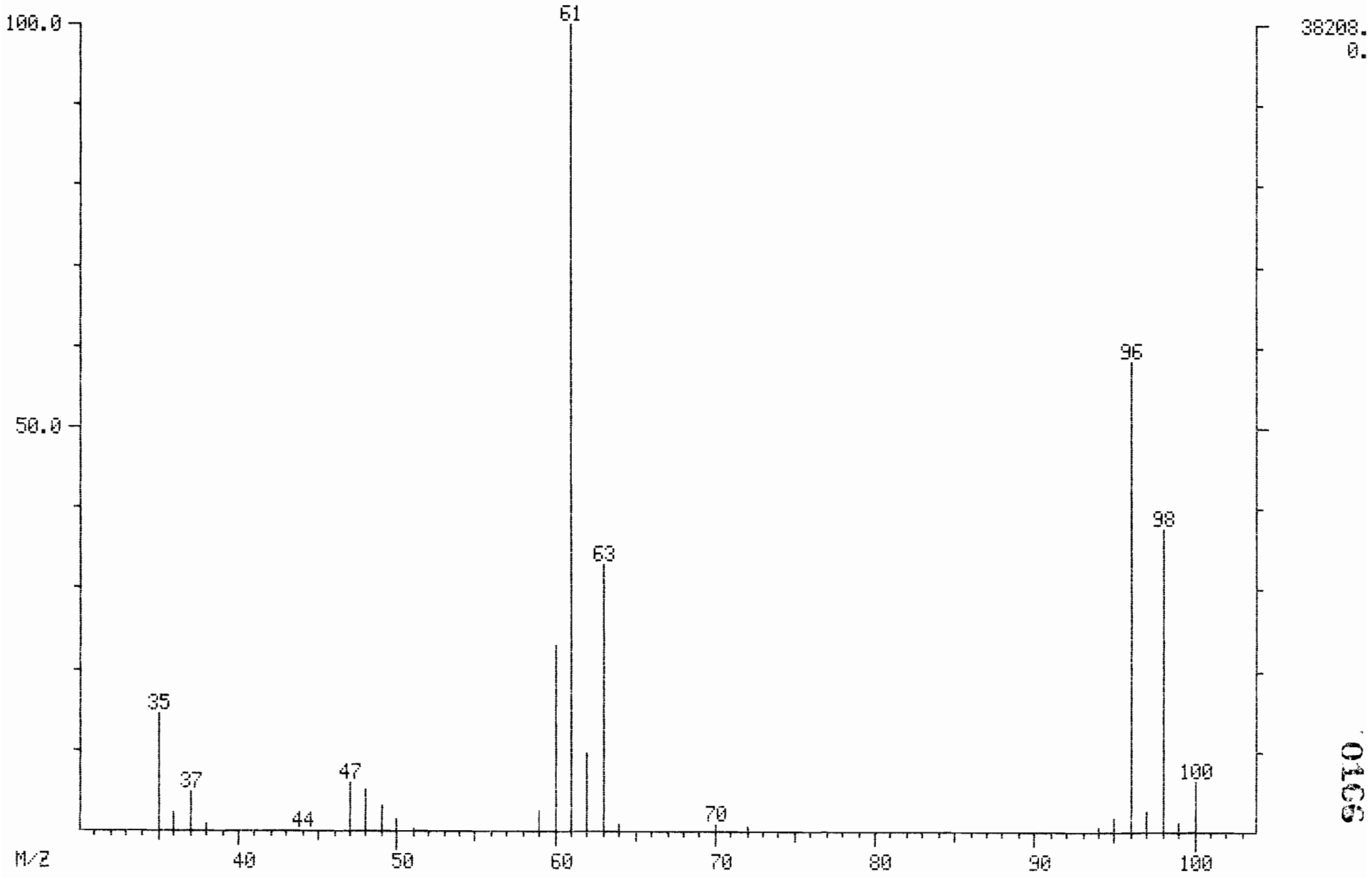
NAME: C056 CIS-1,2-DICHLOROETHENE



MASS SPECTRUM
12/18/93 15:34:00 + 12:24
SAMPLE: AS053078DL JOB4488
CONDS.: I50K
TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C056 CIS-1,2-DICHLOROETHENE

DATA: K8728 #864
CALI: K8728 #3

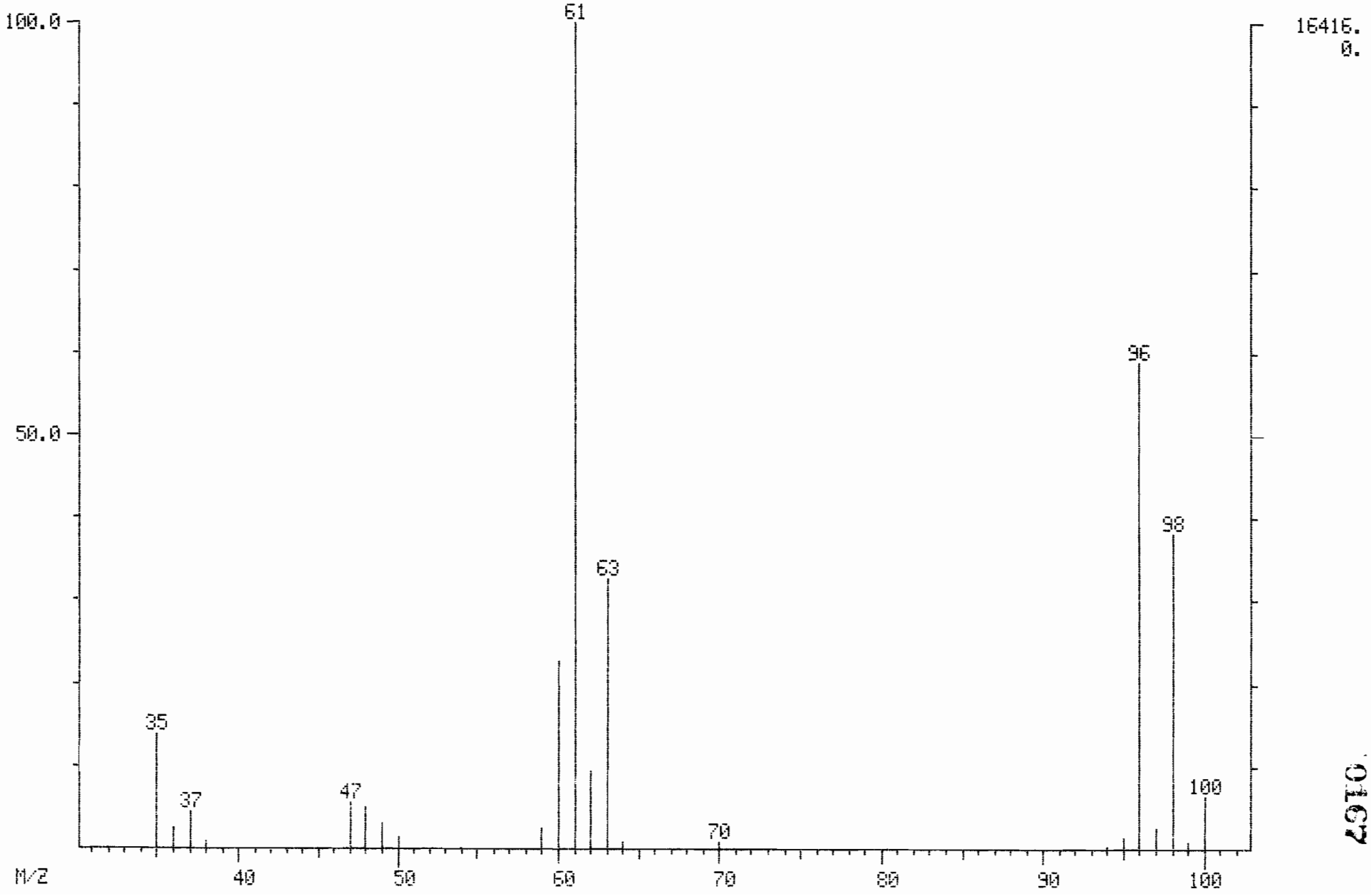
BASE M/Z: 61
RIC: 120832.



MASS SPECTRUM
12/18/93 13:17:00 + 12:25
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-428 DEG. C
NAME: C056 CIS-1,2-DICHLOROETHENE

DATA: K8724 #865
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 51456.



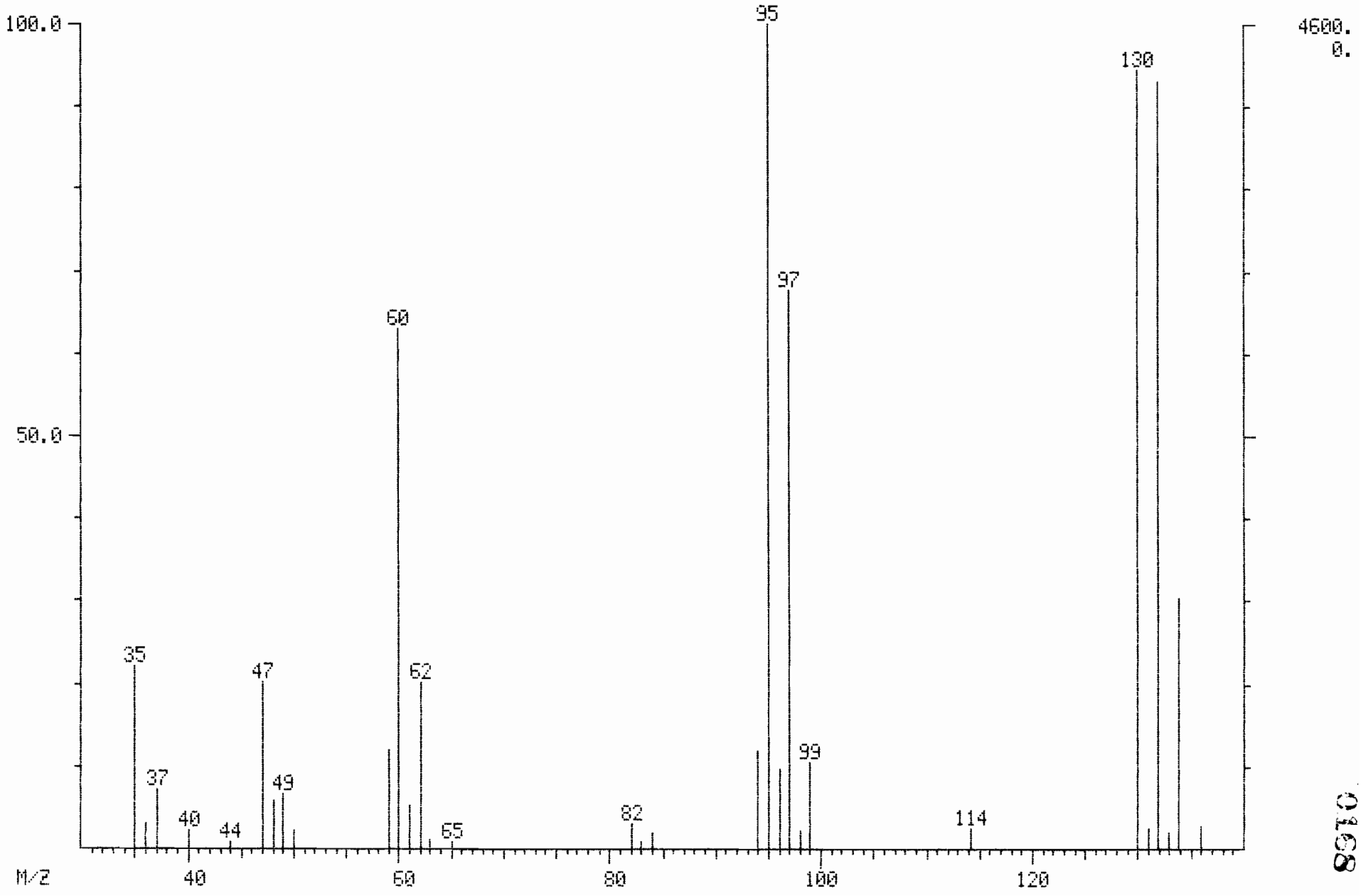
0167

MASS SPECTRUM
12/18/93 15:34:00 + 15:20
SAMPLE: AS053078DL JOB4488
CONDS.: I50K
TEMP: 112 DEG. C

DATA: K8728 #1068
CALI: K8728 #3

BASE M/Z: 95
RIC: 28032.

NAME: C150 TRICHLOROETHENE

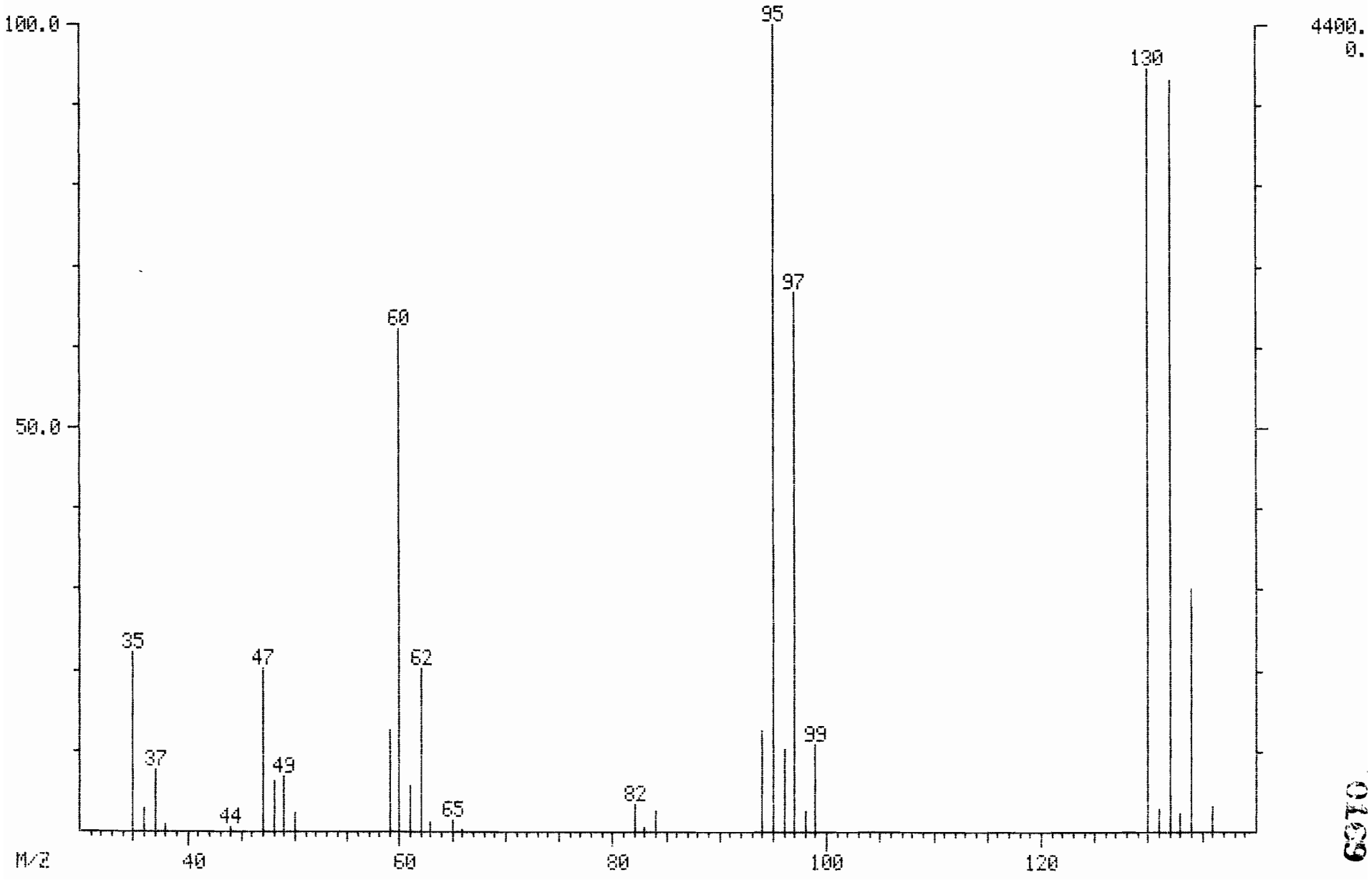


8910

MASS SPECTRUM
12/18/93 15:34:00 + 15:20
SAMPLE: AS053078DL JOB4488
CONDS.: I50K
TEMP: 112 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C150 TRICHLOROETHENE

DATA: K8728 #1068
CALI: K8728 #3

BASE M/Z: 95
RIC: 26720.

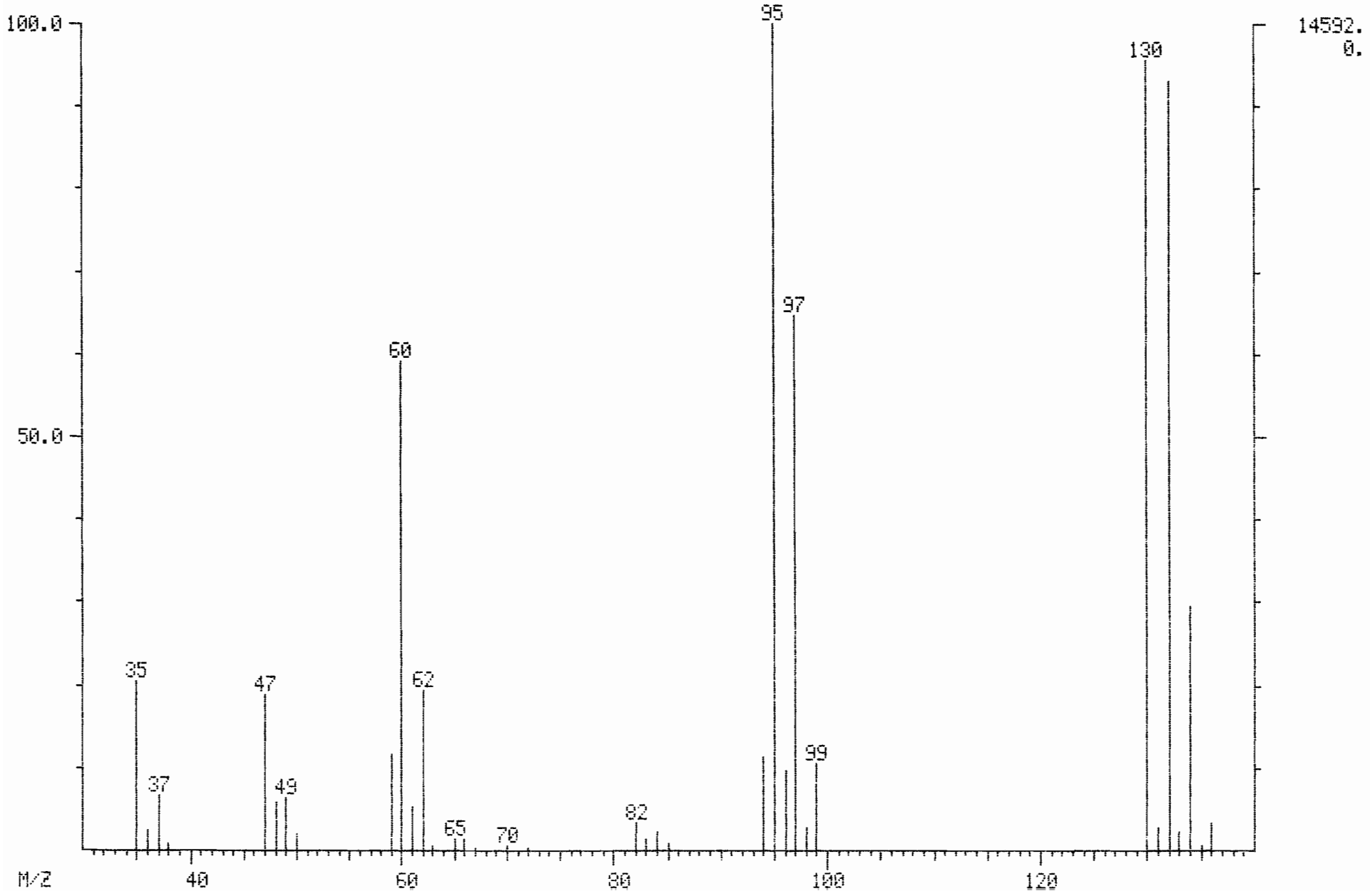


MASS SPECTRUM
12/18/93 13:17:00 + 15:21
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-399 DEG. C

DATA: K8724 #1069
ENHANCED (S 15B 2N 0T)

BASE M/Z: 95
RIC: 87296.

NAME: C150 TRICHLOROETHENE



6770

INTERNAL STANDARD QUANTITATION REPORT: AMOUNTS BASED ON AREA

Quantitation Report File: K8728

Data: K8728.TI
12/18/93 15:34:00
Sample: AS053078DL JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	0-00-0	CI10 1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	0-00-0	CI20 D5-CHLOROBENZENE *INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	899	12:54	1	1.000	A BB	291996.	250.000 NG	33.33
2	TOT	1035	14:51	2	1.000	A BB	375488.	250.000 NG	33.33
3	TOT	1370	19:40	3	1.000	A BB	431014.	250.000 NG	33.33

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
184803

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053079

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8711

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	15	
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	60	
540-59-0	1,2-Dichloroethene (total)	15	
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	6	J
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	1	J
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	3	BJ
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	3	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	1	J
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	4	J

1E

EPA SAMPLE NO.

184803

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053079

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8711

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. ____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

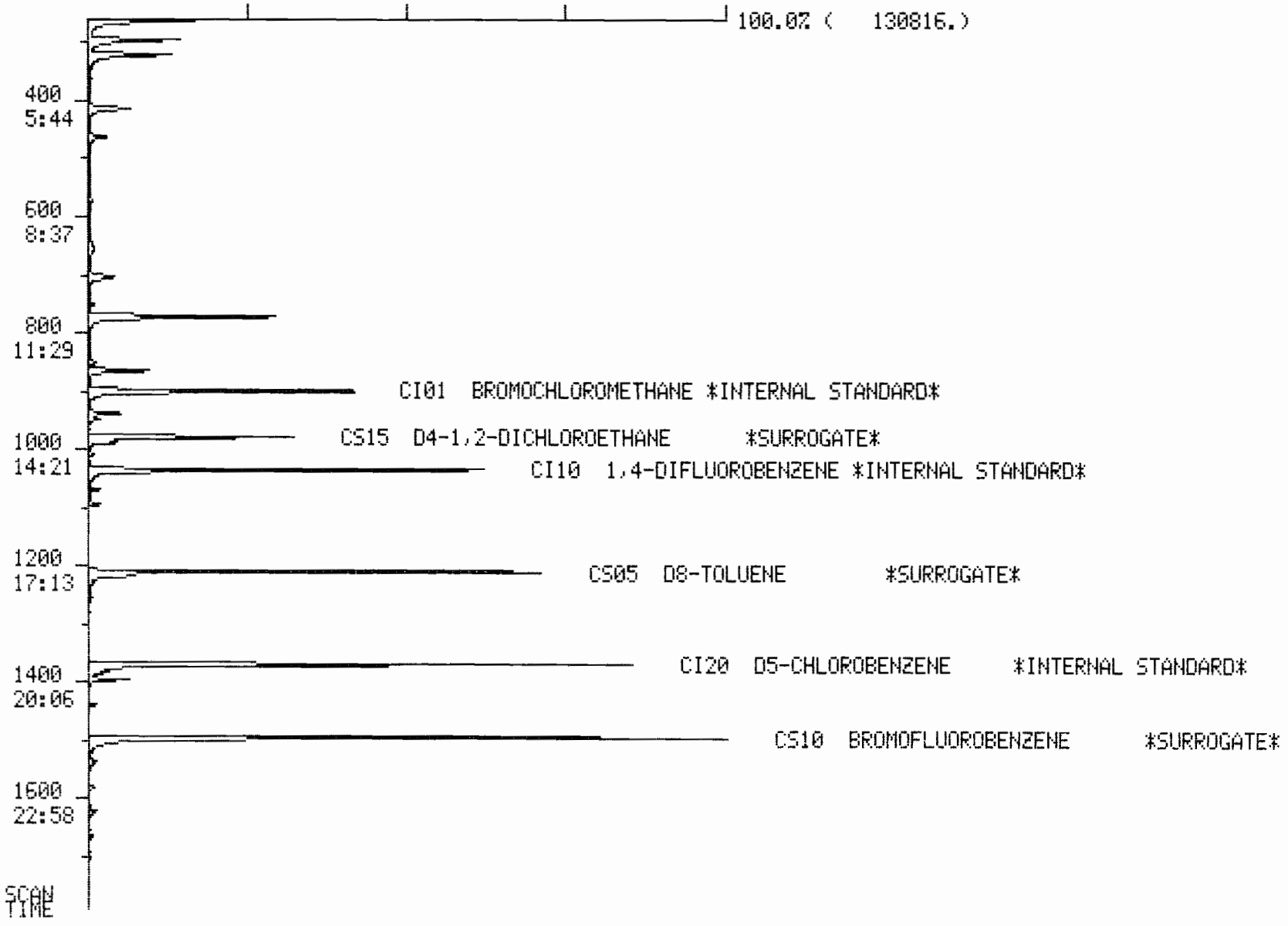
Number TICs found: 4

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

	CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.		UNKNOWN	3.73	24	J
2.	75-28-5	ISOBUTANE	4.20	21	JN
3.		SATURATED HYDROCARBON	5.90	11	J
4.		UNKNOWN	10.07	8	J

DATA FROM FILE: K8711 SCANS 260 TO 1790 ACQUIRED: 12/18/93 3:48:00
CALI: K8711 #3

SAMPLE: AS053079 JOB4488
CONDS.: I50K



0174

Quantitation Report File: K8711

Data: K8711.TI
/18/93 3:48:00
mple: AS053079 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
15	C050	1,1-DICHLOROETHANE
5	C057	TRANS-1,2-DICHLOROETHENE
7	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
1	C215	2-HEXANONE
2	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

Edit 12/18/93 JC

No	Name
48	C246 M,P-XYLENE
7	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	897	12:53	1	1.000	A BB	36175.	250.000 NG	12.12
2	114	1033	14:50	2	1.000	A BB	142364.	250.000 NG	12.12
3	117	1368	19:38	3	1.000	A BB	129985.	250.000 NG	12.12
4	65	977	14:01	1	1.089	A BB	82116.	275.459 NG	13.35
5	98	1208	17:20	3	0.883	A BB	134680.	239.462 NG	11.61
6	95	1493	21:26	3	1.091	A BB	122122.	253.487 NG	12.29
7	NOT FOUND								
8	NOT FOUND								
9	62	318	4:34	1	0.355	A BB	12006.	74.922 NG	3.63
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	63	770	11:03	1	0.858	A BB	125843.	302.365 NG	14.66
16	96	697	10:00	1	0.777	A BB	1375.	8.247 NG	0.40
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	97	936	13:26	2	0.906	A BB	13359.	30.743 NG	1.49
21	NOT FOUND								
?	NOT FOUND								
23	NOT FOUND								
24	96	863	12:23	1	0.962	A BB	13072. (1375. / 14447)	61.453 NG (76.158 NG)	2.98
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	130	1067	15:19	2	1.033	A BB	1746.	6.367 NG	0.31
32	NOT FOUND								
33	NOT FOUND								
34	78	986	14:09	2	0.955	A BB	8665.	16.375 NG	0.79
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	91	1215	17:26	3	0.888	A BB	10056.	17.281 NG	0.84
45	NOT FOUND								
46	106	1381	19:49	3	1.010	A BB	989.	5.140 NG	0.25
47	NOT FOUND								
3	106	1393	20:00	3	1.018	A BB	4715.	18.321 NG (18.246 NG)	0.89
49	NOT FOUND								
50	NOT FOUND								

1,2-Dichlorobenzene (TOTAL) = #16 + #24

MT 12/28/93

RF = 1.311

RF = 0.497

12/18/93

MT 12/28/93

Quantitation Report File: K8711 0177

Data: K8711.TI
/18/93 3:48:00
mple: AS053079 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
~~52~~	~~146~~	~~1663~~	~~23:52~~	~~3~~	~~1.216~~	~~A BB~~	~~2000.~~	~~3.937 NG~~	~~0.19~~

NOT REQUIRED

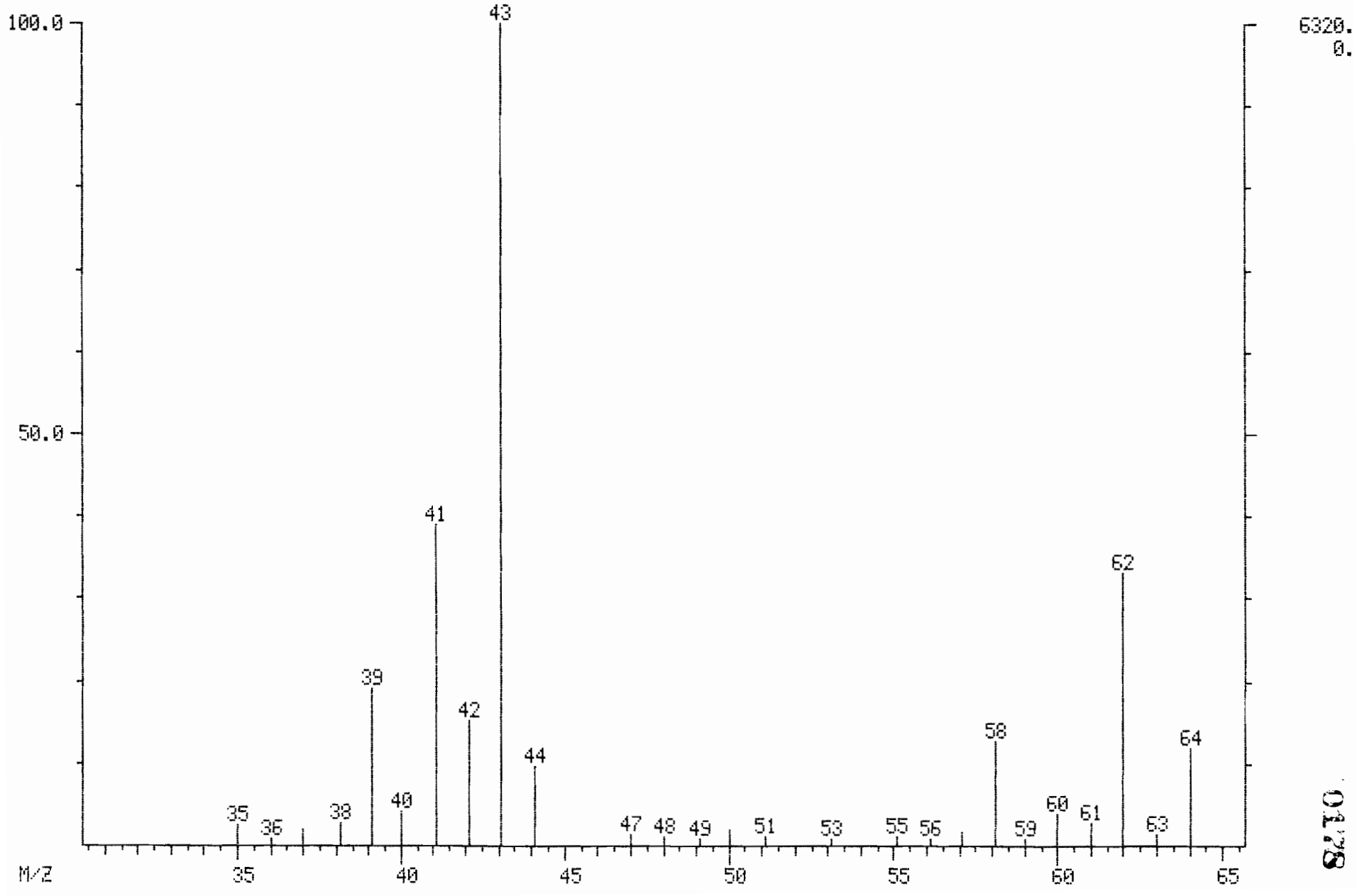
12/18/93

MASS SPECTRUM
12/18/93 3:48:00 + 4:34
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C

DATA: K8711 #318
CALI: K8711 #3

BASE M/Z: 43
RIC: 17280.

NAME: C020 VINYL CHLORIDE

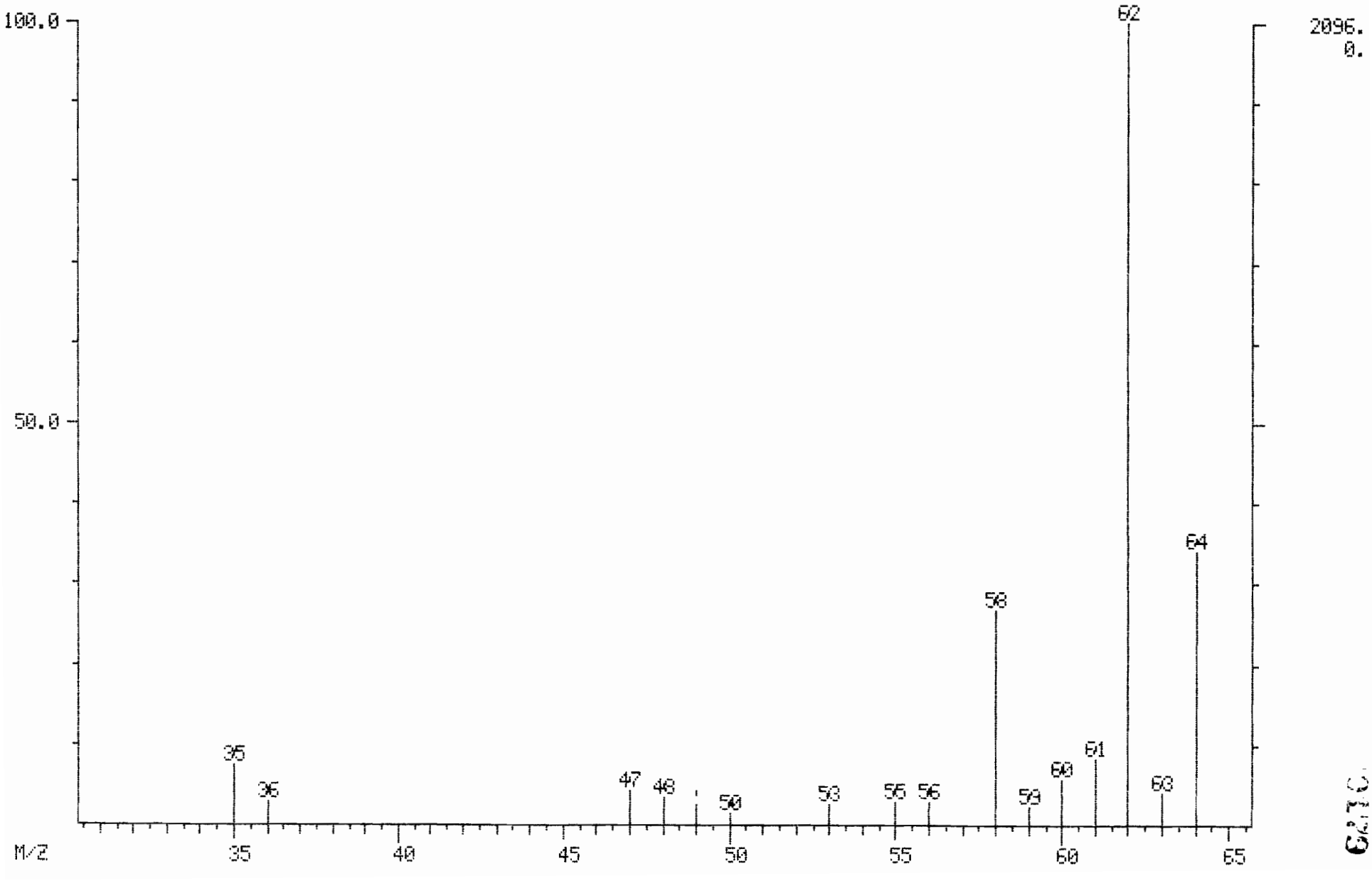


0178

MASS SPECTRUM
12/18/93 3:48:00 + 4:34
SAMPLE: A5053079 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
#318 - #293NAME: C020 VINYL CHLORIDE

DATA: K8711 #318
CALI: K8711 #3

BASE M/Z: 62
RIC: 4432.

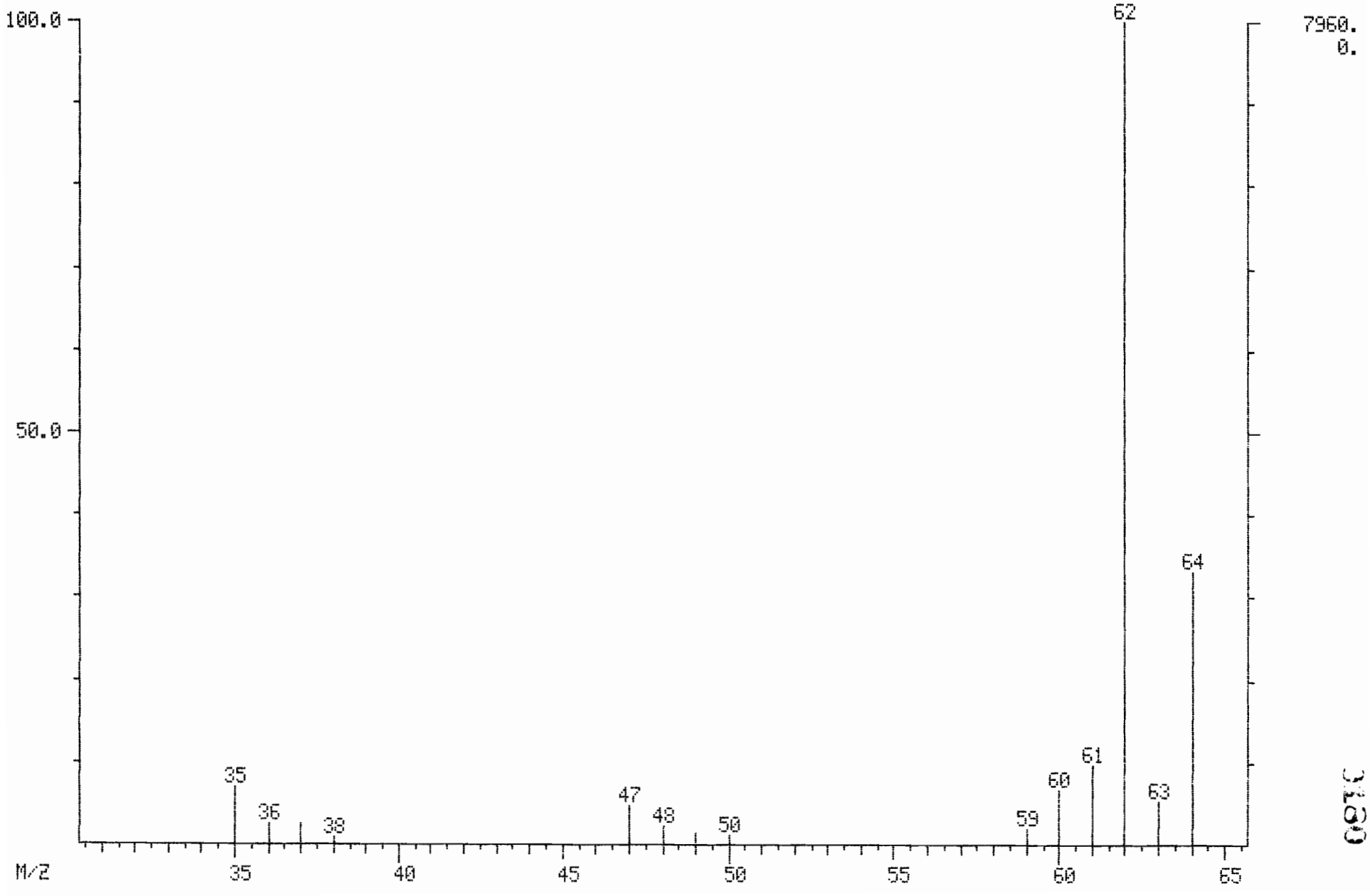


MASS SPECTRUM
12/17/93 19:29:00 + 4:31
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-471 DEG. C

DATA: K8696 #315
ENHANCED (S 15B 2N 0T)

BASE M/Z: 62
RIC: 14288.

NAME: C020 VINYL CHLORIDE



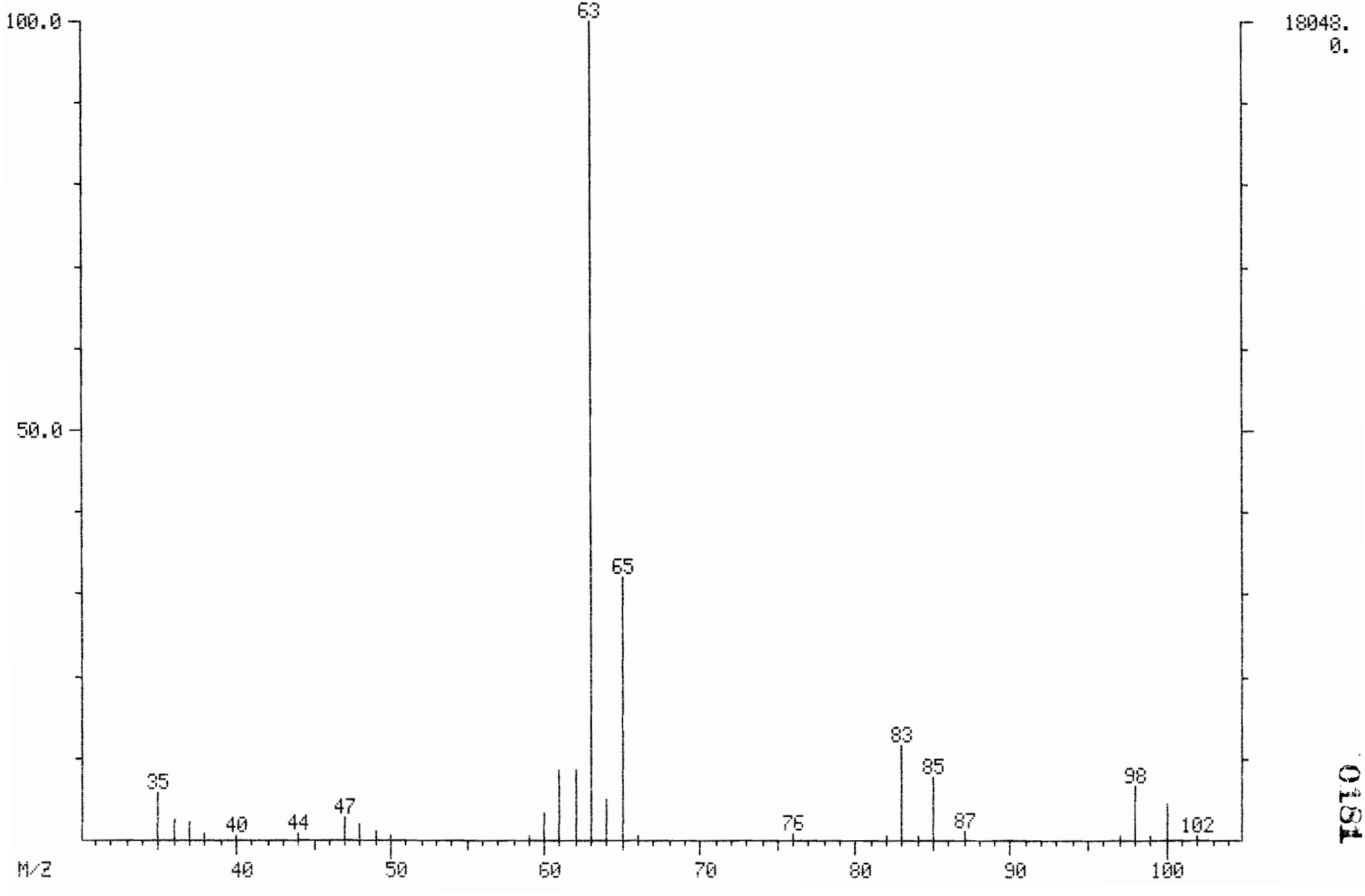
3190

MASS SPECTRUM
12/18/93 3:48:00 + 11:03
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 70 DEG. C

DATA: K8711 #770
CALI: K8711 #3

BASE M/Z: 63
RIC: 38208.

NAME: C050 1,1-DICHLOROETHANE

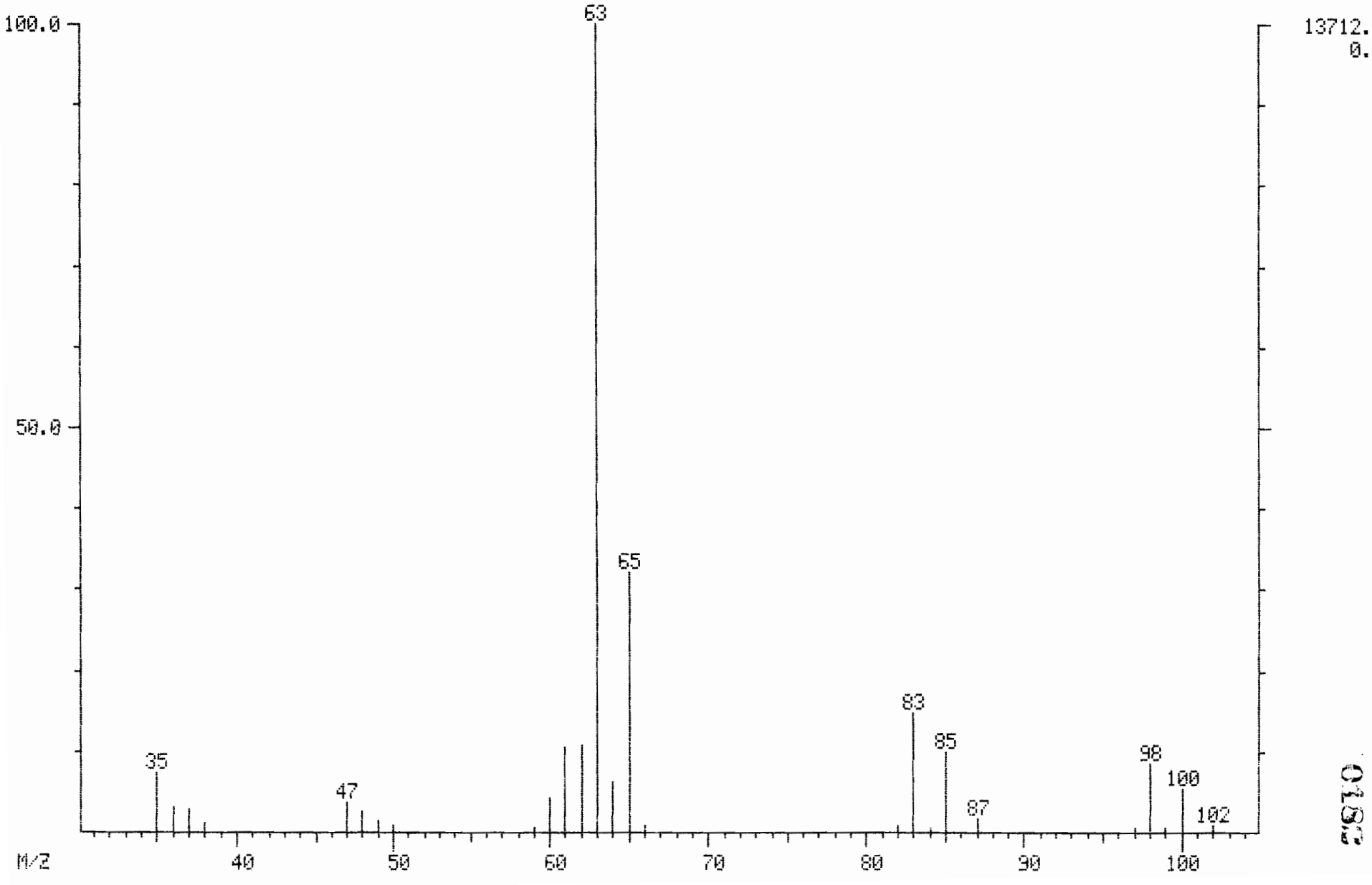


0184

MASS SPECTRUM
12/18/93 3:48:00 + 11:03
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 70 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C050 1,1-DICHLOROETHANE

DATA: K8711 #770
CALI: K8711 #3

BASE M/Z: 63
RIC: 31840.

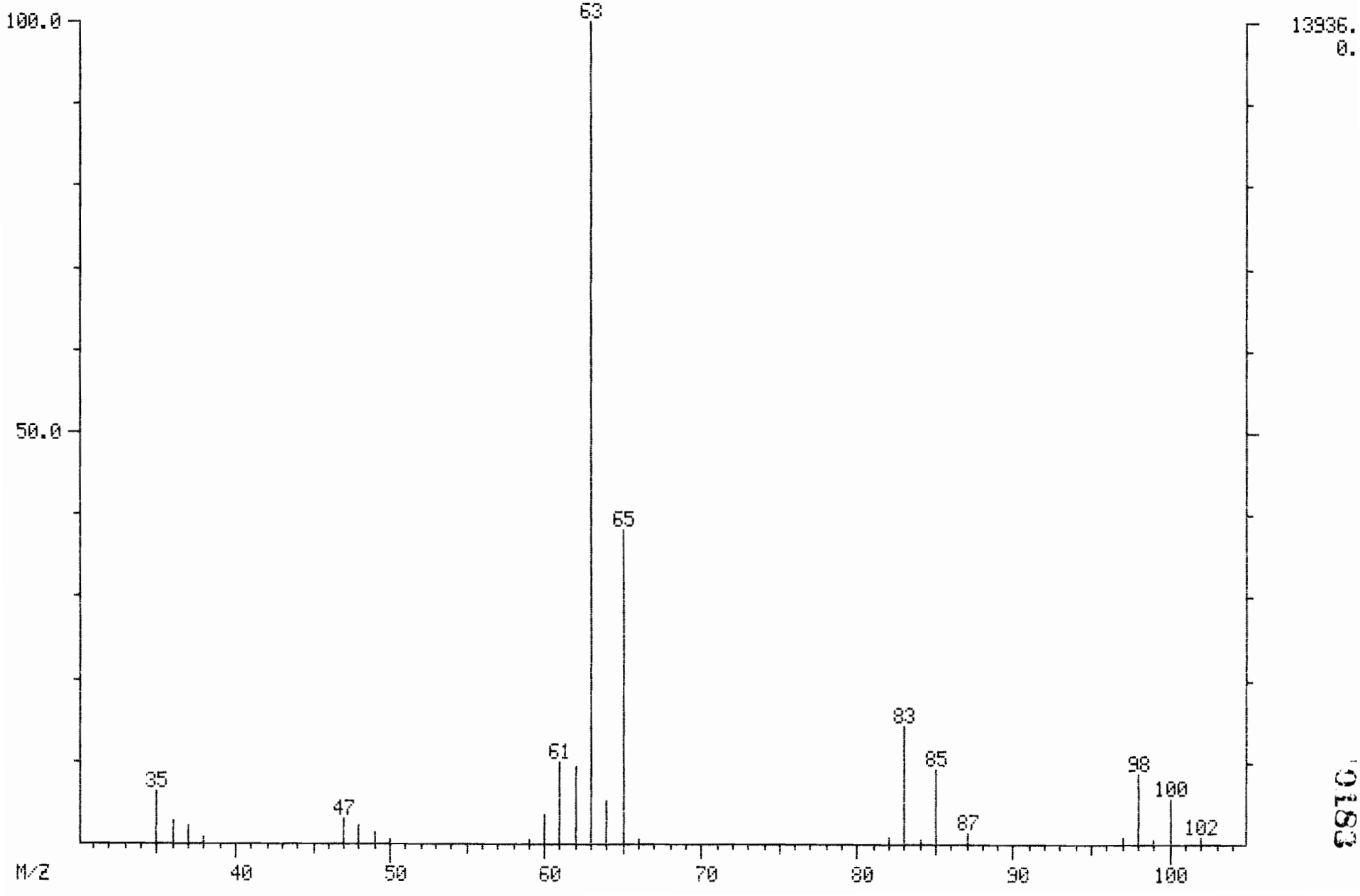


0182

MASS SPECTRUM
12/17/93 19:29:00 + 11:01
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-442 DEG. C
NAME: C050 1,1-DICHLOROETHANE

DATA: K8696 #768
ENHANCED (S 15B 2N 0T)

BASE M/Z: 63
RIC: 32032.



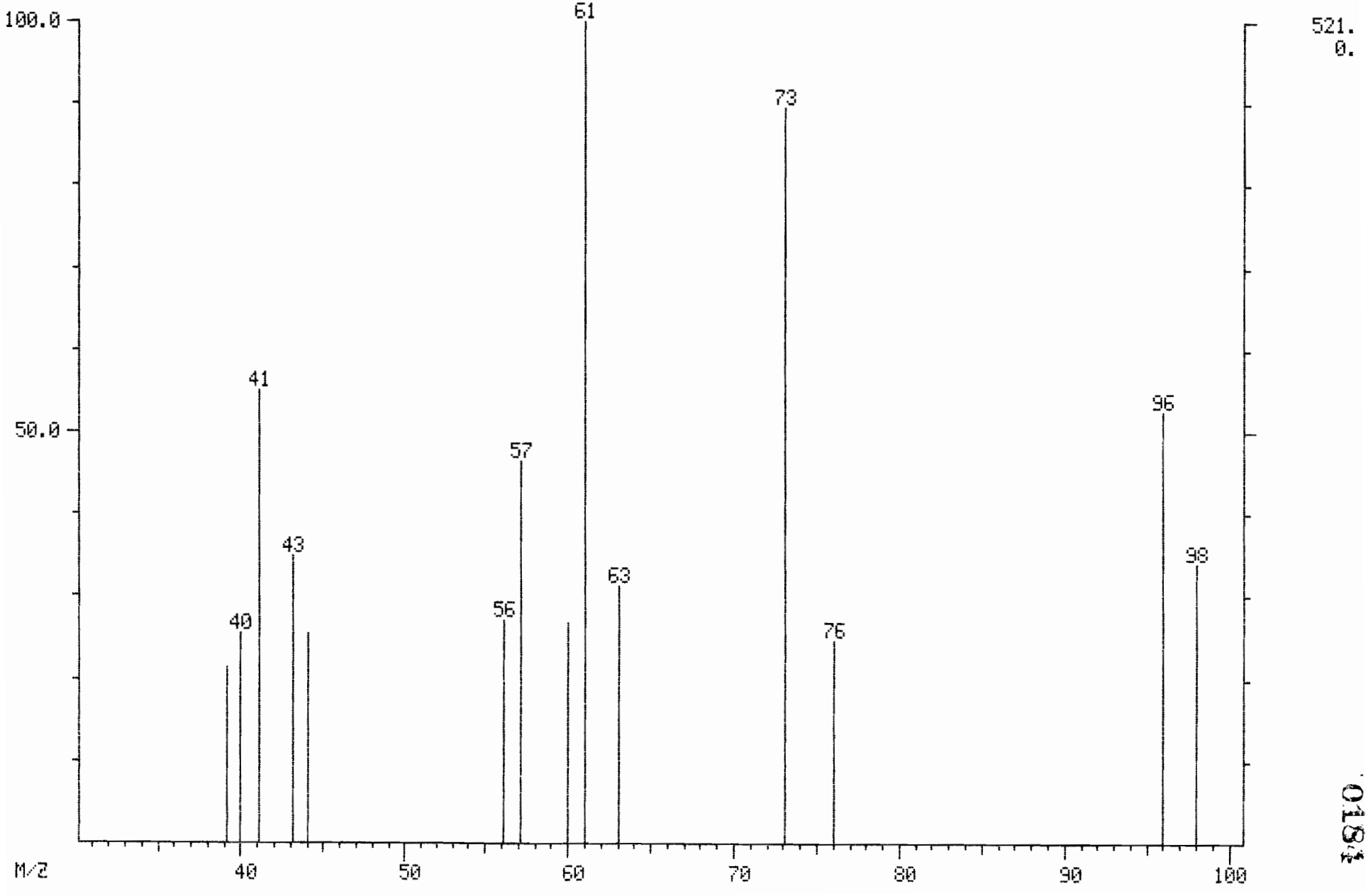
0163

MASS SPECTRUM
12/18/93 3:48:00 + 10:00
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 59 DEG. C

DATA: K8711 #697
CALI: K8711 #3

BASE M/Z: 61
RIC: 3100.

NAME: C057 TRANS-1,2-DICHLOROETHENE

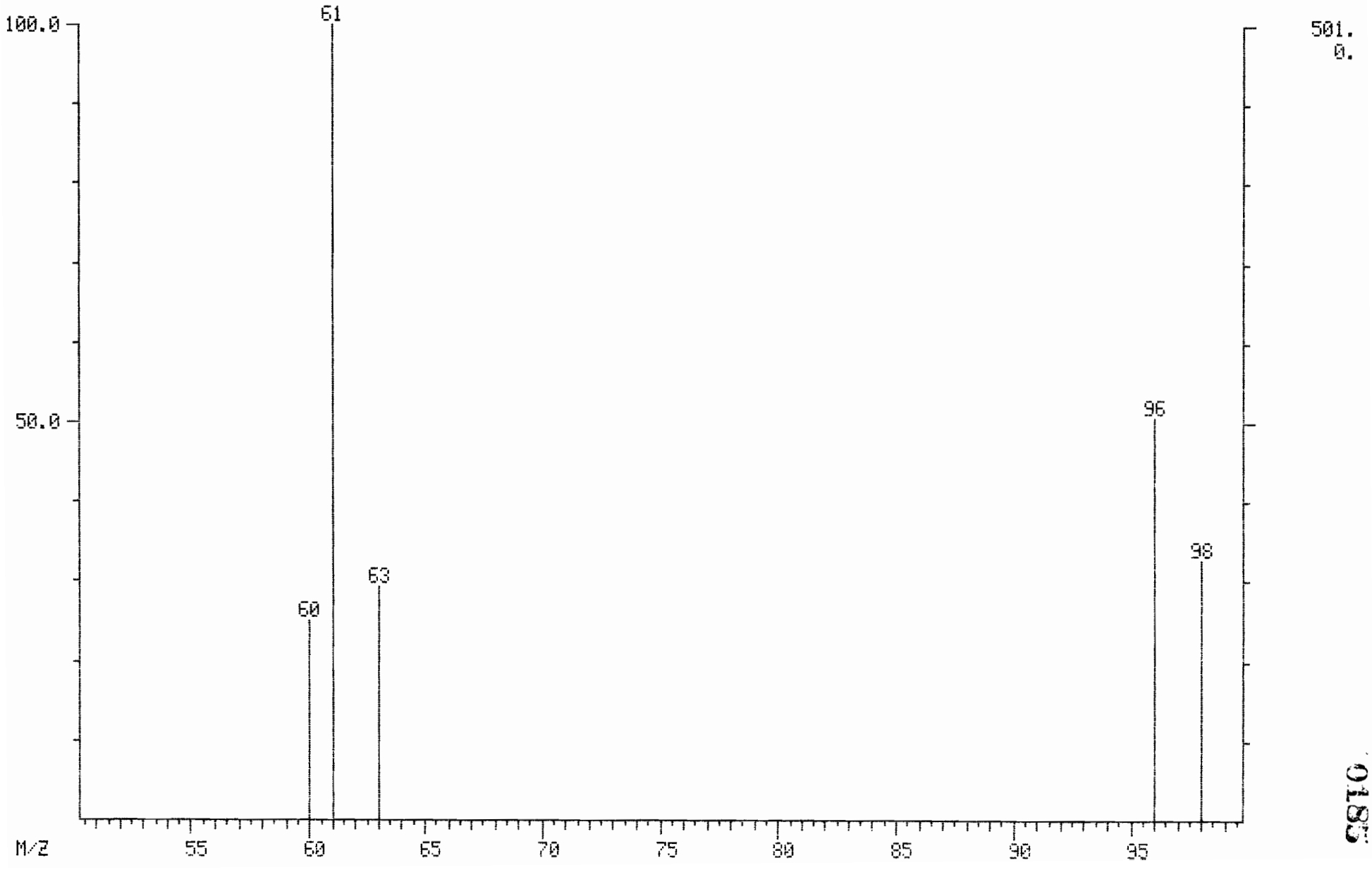


0184

MASS SPECTRUM
12/18/93 3:48:00 + 10:00
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 59 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C057 TRANS-1,2-DICHLOROETHENE

DATA: K8711 #697
CALI: K8711 #3

BASE M/Z: 61
RIC: 1192.



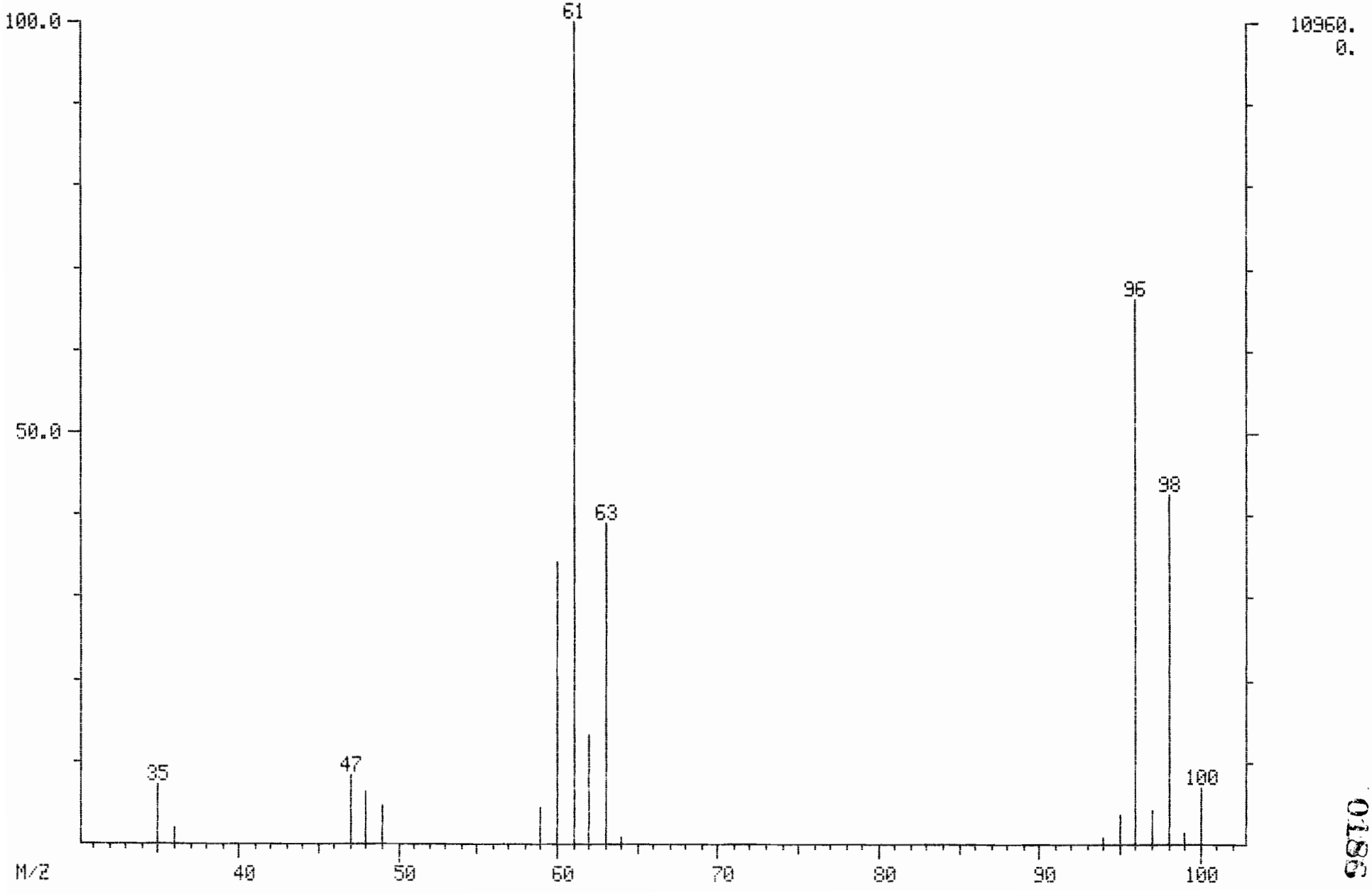
0185

MASS SPECTRUM
12/17/93 19:29:00 + 9:59
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-452 DEG. C

DATA: K8696 #695
ENHANCED (S 15B 2N 0T)

BASE M/Z: 61
RIC: 37888.

NAME: C057 TRANS-1,2-DICHLOROETHENE

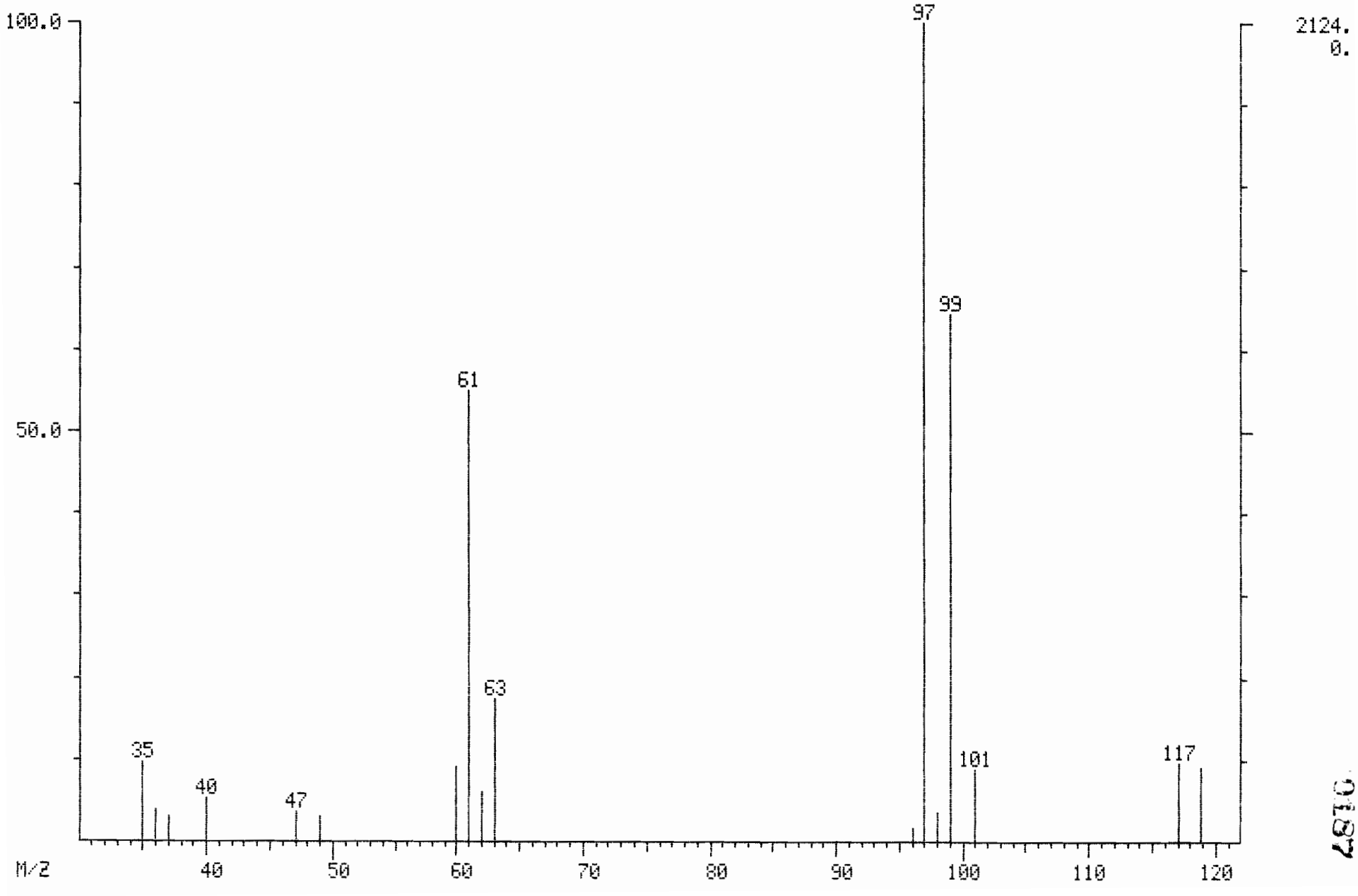


0189

MASS SPECTRUM
12/18/93 3:48:00 + 13:26
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 94 DEG. C
NAME: C115 1,1,1-TRICHLOROETHANE

DATA: K8711 #936
CALI: K8711 #3

BASE M/Z: 97
RIC: 6672.

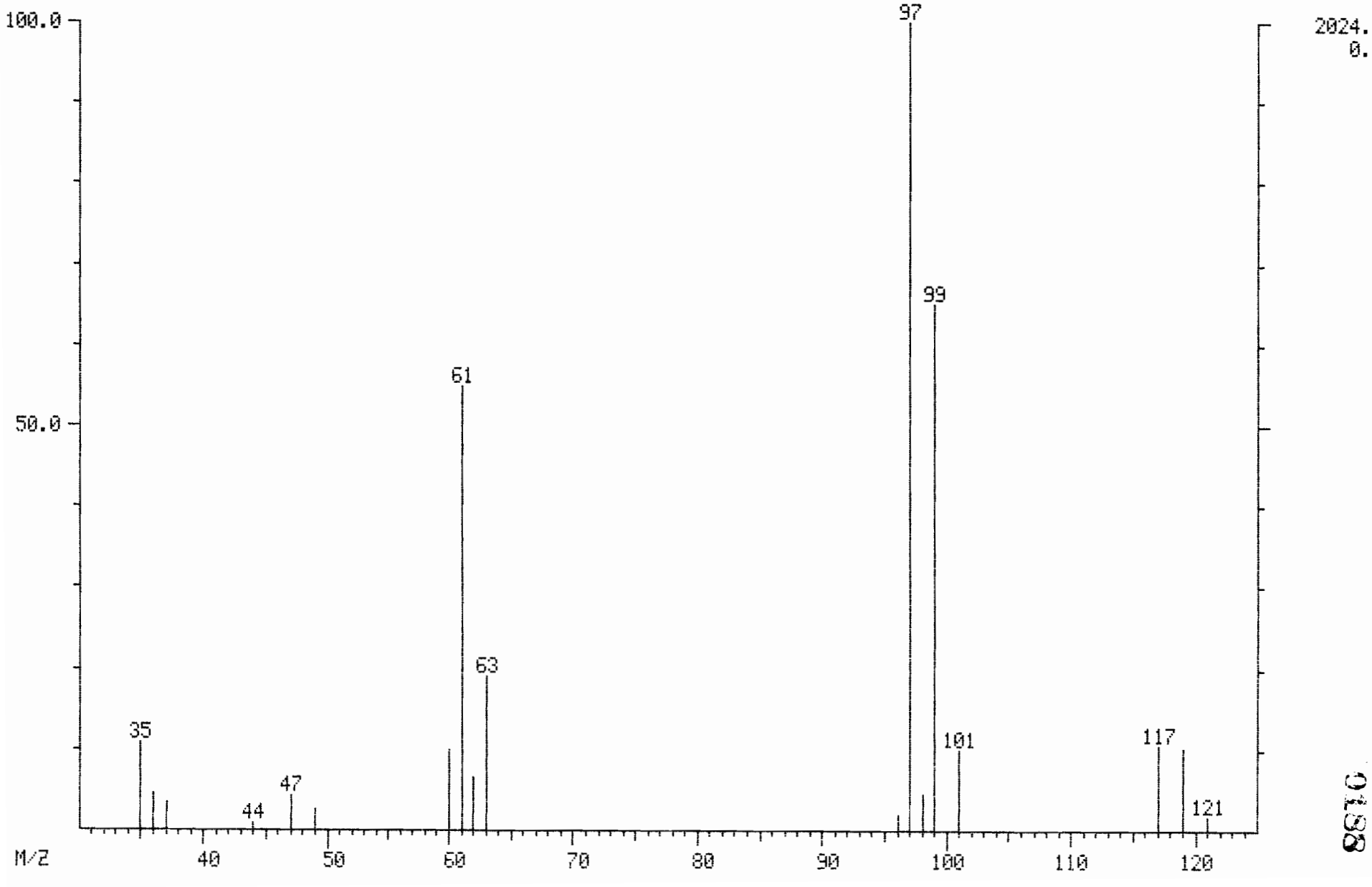


0187

MASS SPECTRUM
12/18/93 3:48:00 + 13:26
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 94 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C115 1,1,1-TRICHLOROETHANE

DATA: K8711 #936
CALI: K8711 #3

BASE M/Z: 97
RIC: 6488.

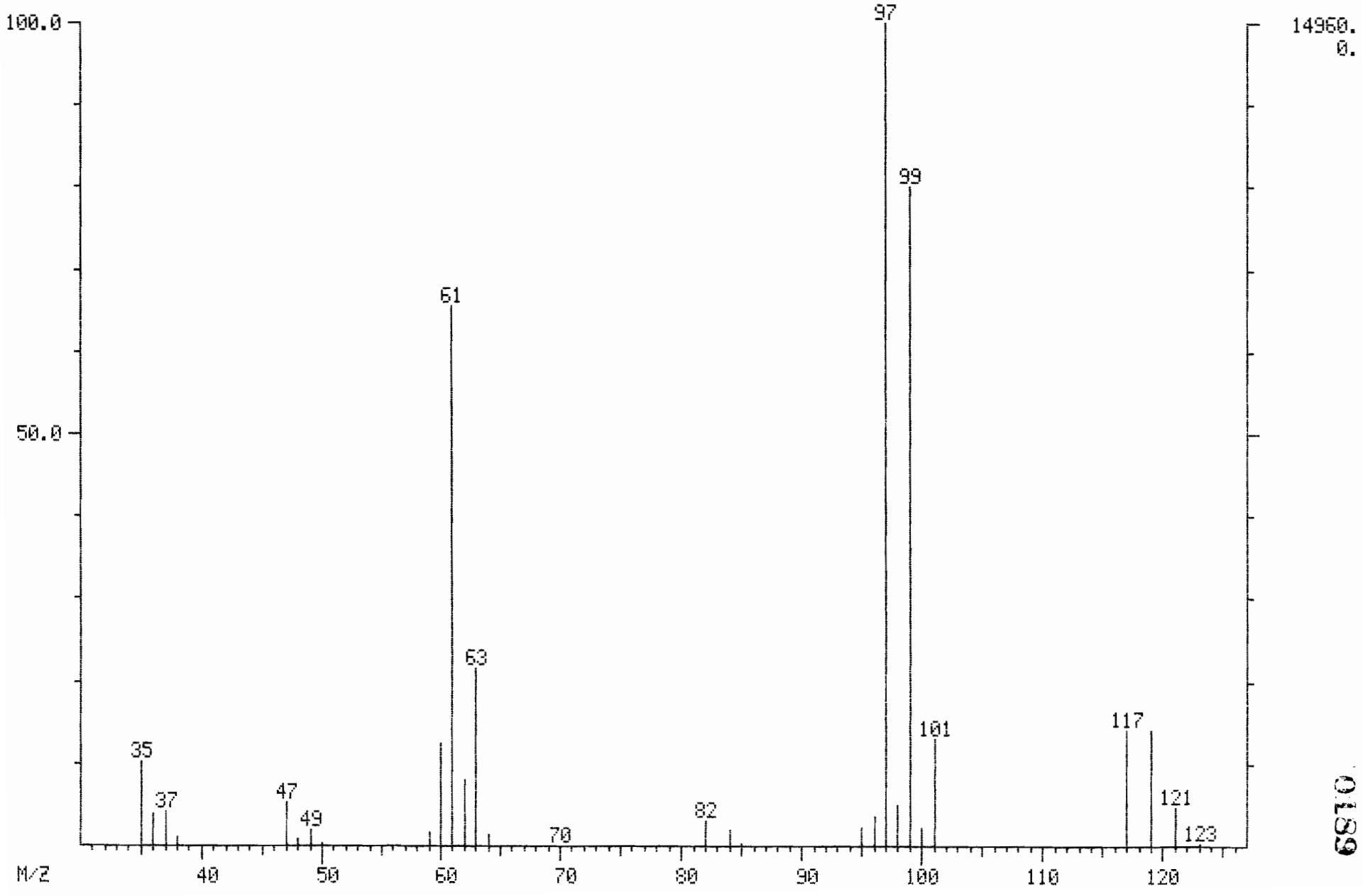


01488

MASS SPECTRUM
12/17/93 19:29:00 + 13:25
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-418 DEG. C
NAME: C115 1,1,1-TRICHLOROETHANE

DATA: K8696 #935
ENHANCED (S 15B 2N 0T)

BASE M/Z: 97
RIC: 57280.



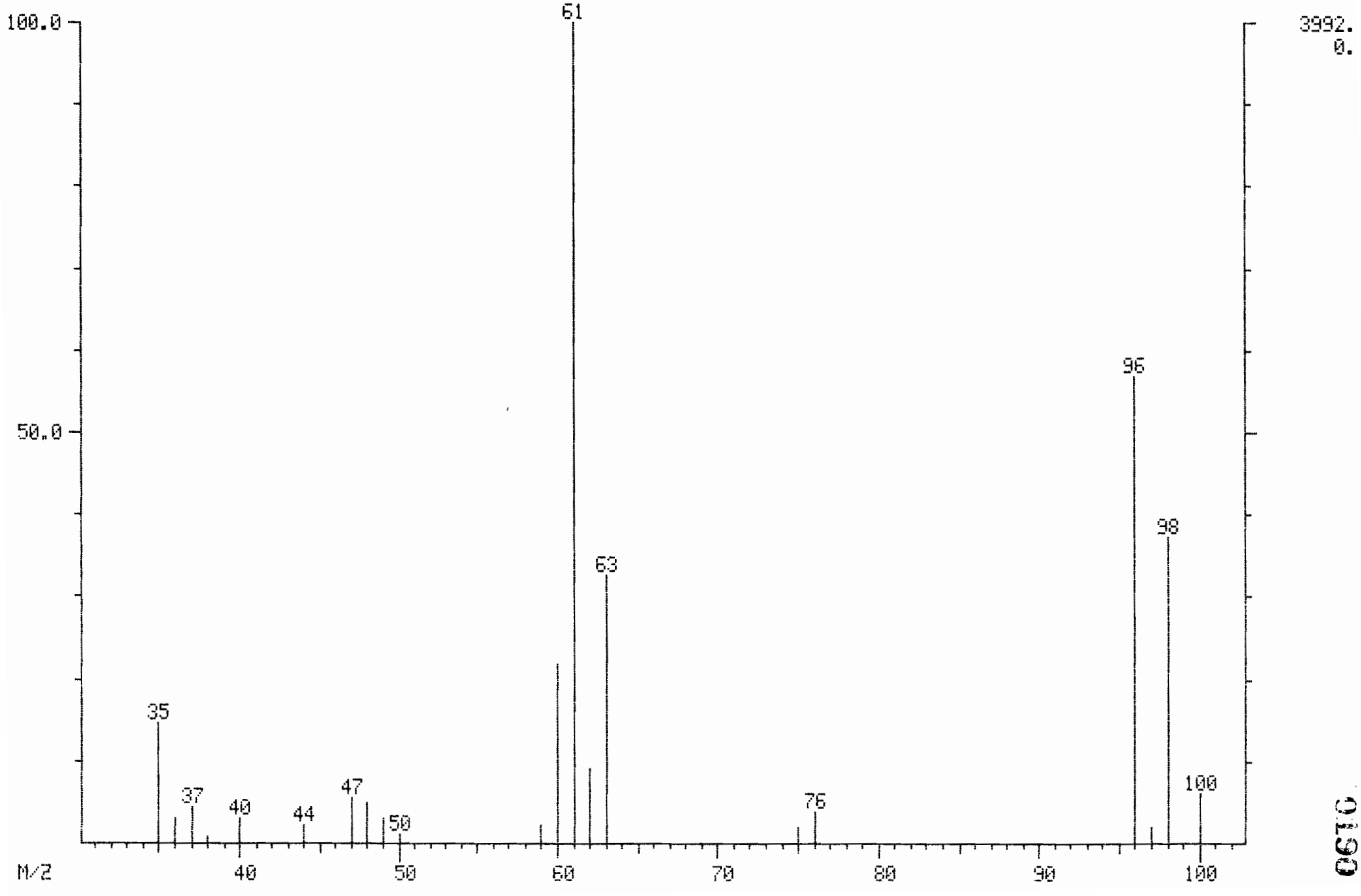
0139

MASS SPECTRUM
12/18/93 3:48:00 + 12:23
SAMPLE: AS053079 J0B4488
CONDS.: I50K
TEMP: 83 DEG. C

DATA: K8711 #863
CALI: K8711 #3

BASE M/Z: 61
RIC: 12672.

NAME: C056 CIS-1,2-DICHLOROETHENE

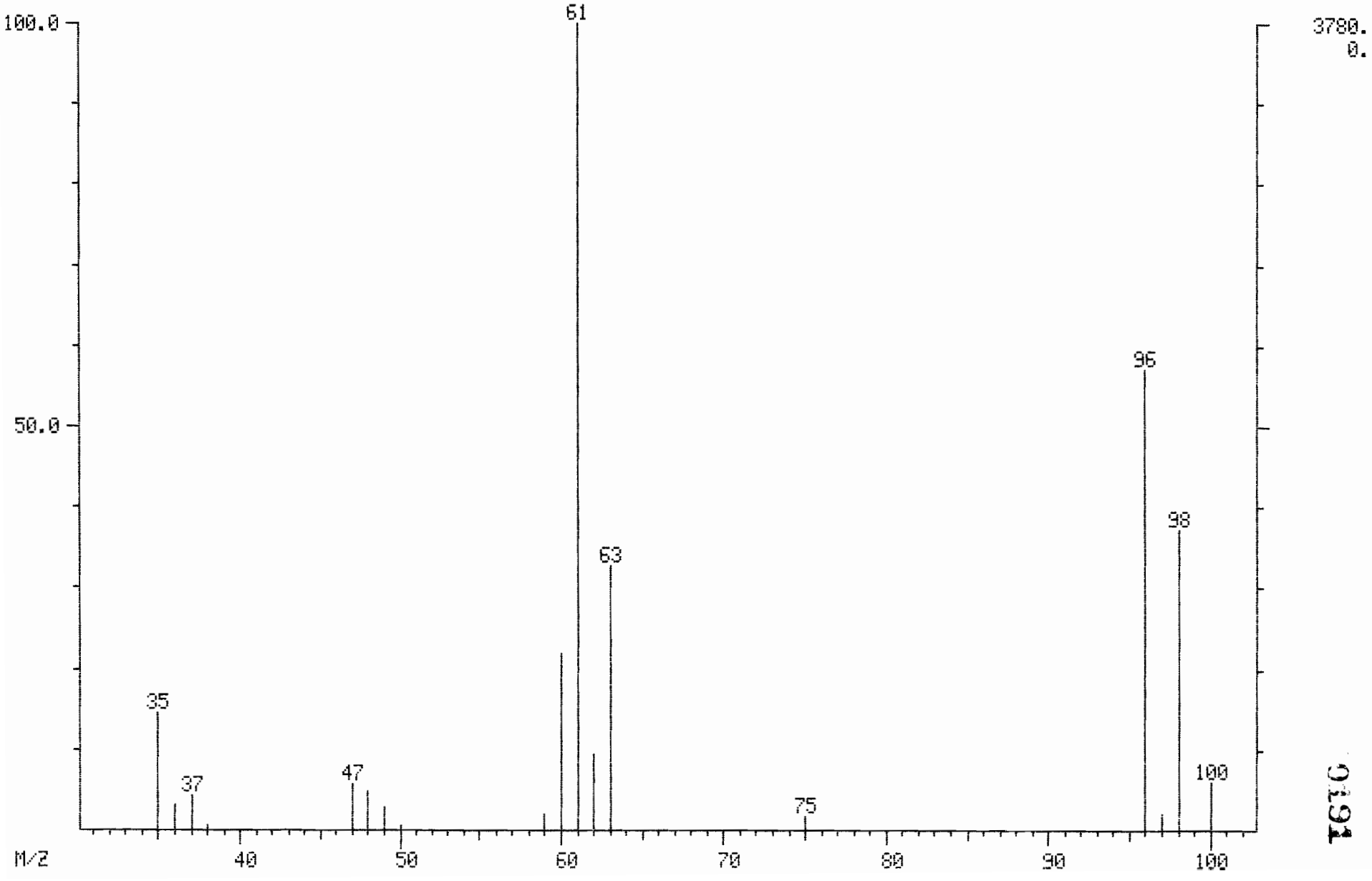


0150

MASS SPECTRUM
12/18/93 3:48:00 + 12:23
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 83 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C056 CIS-1,2-DICHLOROETHENE

DATA: K8711 #863
CALI: K8711 #3

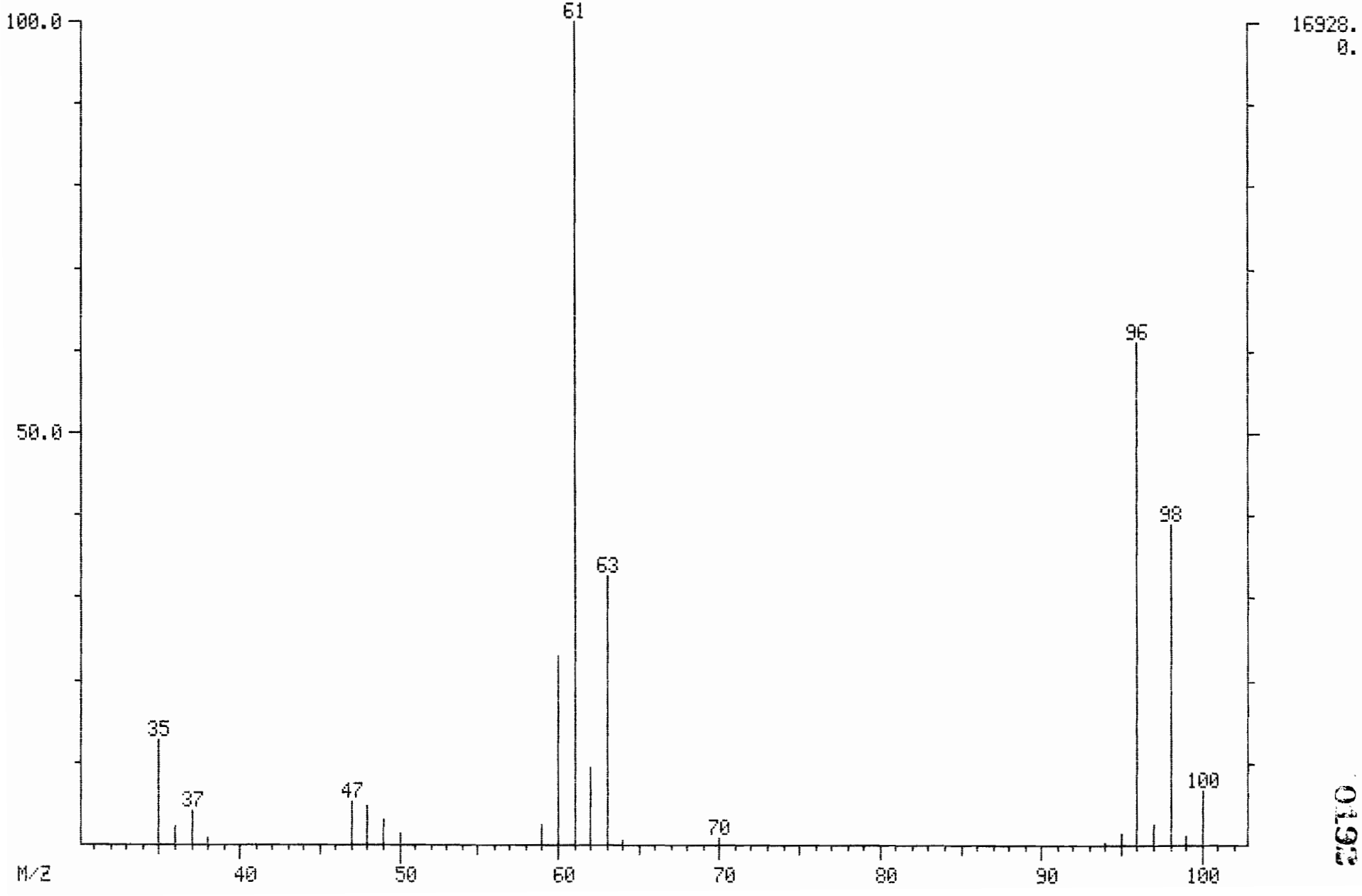
BASE M/Z: 61
RIC: 11584.



0191

MASS SPECTRUM
12/17/93 19:29:00 + 12:22
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-428 DEG. C
NAME: C056 CIS-1,2-DICHLOROETHENE

DATA: K8696 #861 BASE M/Z: 61
ENHANCED (S 15B 2N 0T) RIC: 53440.



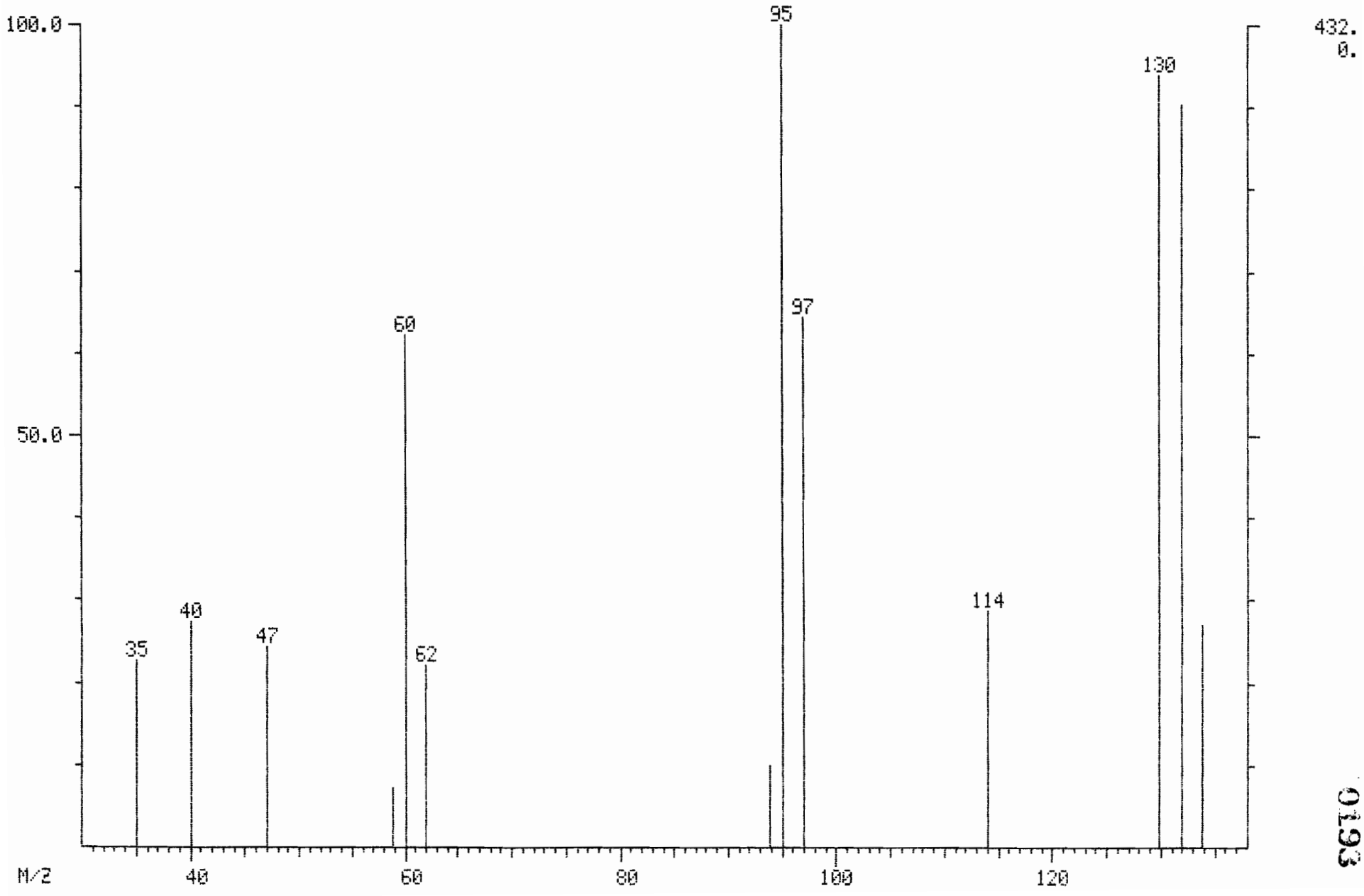
0193

MASS SPECTRUM
12/18/93 3:48:00 + 15:19
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 112 DEG. C

DATA: K8711 #1067
CALI: K8711 #3

BASE M/Z: 95
RIC: 2504.

NAME: C150 TRICHLOROETHENE

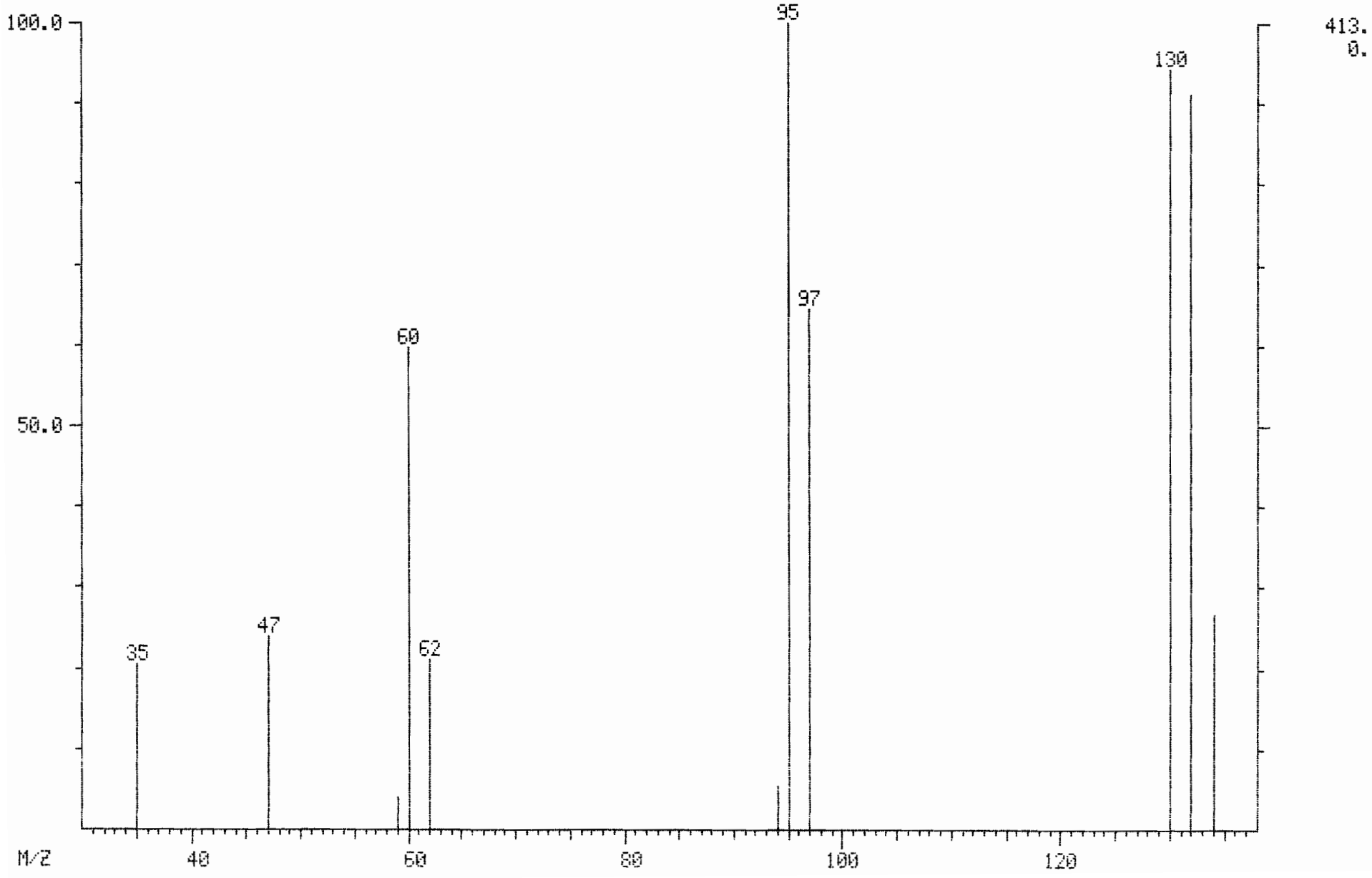


0193

MASS SPECTRUM
12/18/93 3:48:00 + 15:19
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 112 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C150 TRICHLOROETHENE

DATA: K8711 #1067
CALI: K8711 #3

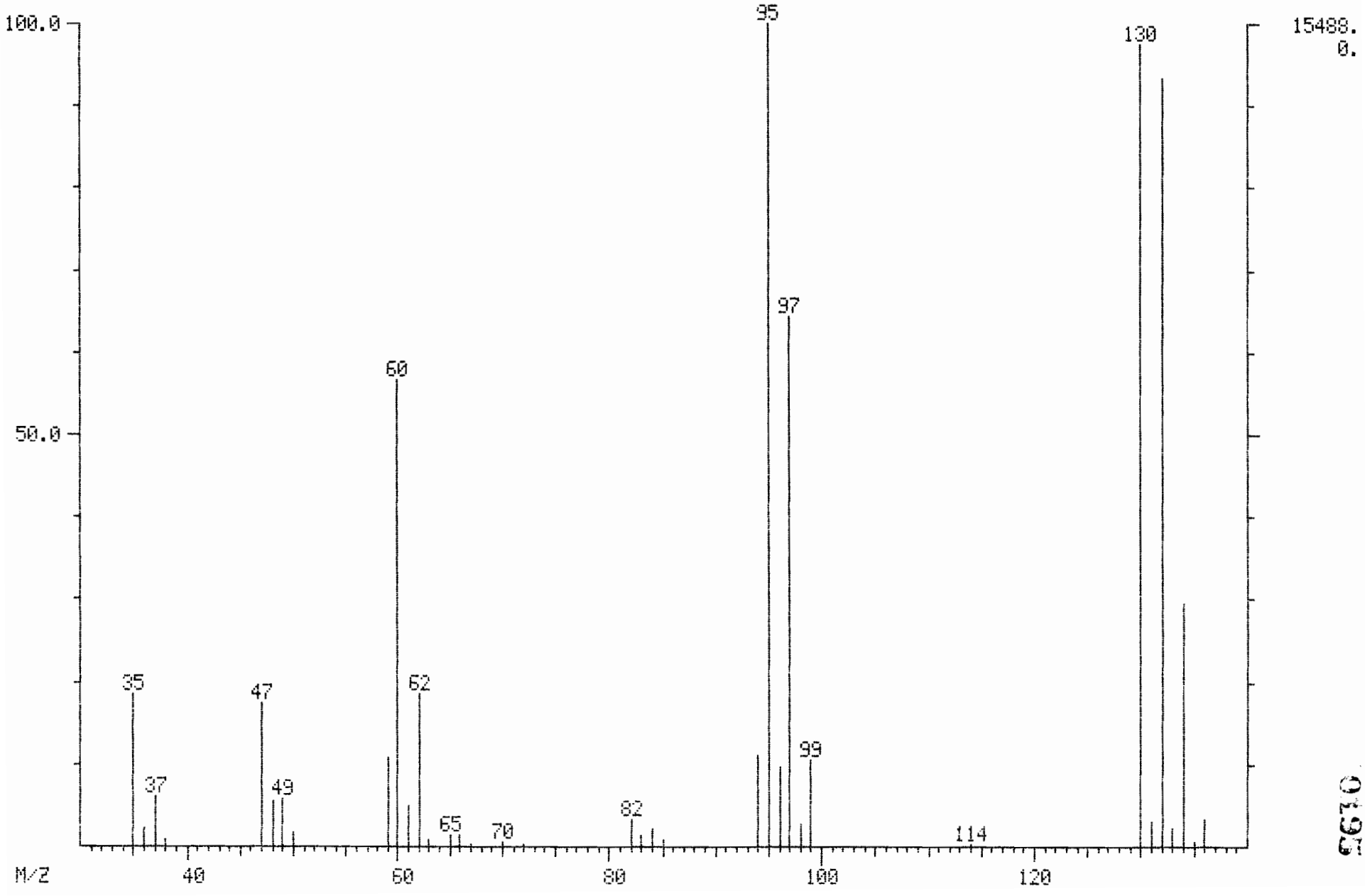
BASE M/Z: 95
RIC: 2112.



MASS SPECTRUM
12/17/93 19:29:00 + 15:17
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-399 DEG. C
NAME: C150 TRICHLORDETHENE

DATA: K8696 #1065
ENHANCED (S 15B 2N 0T)

BASE M/Z: 95
RIC: 91520.



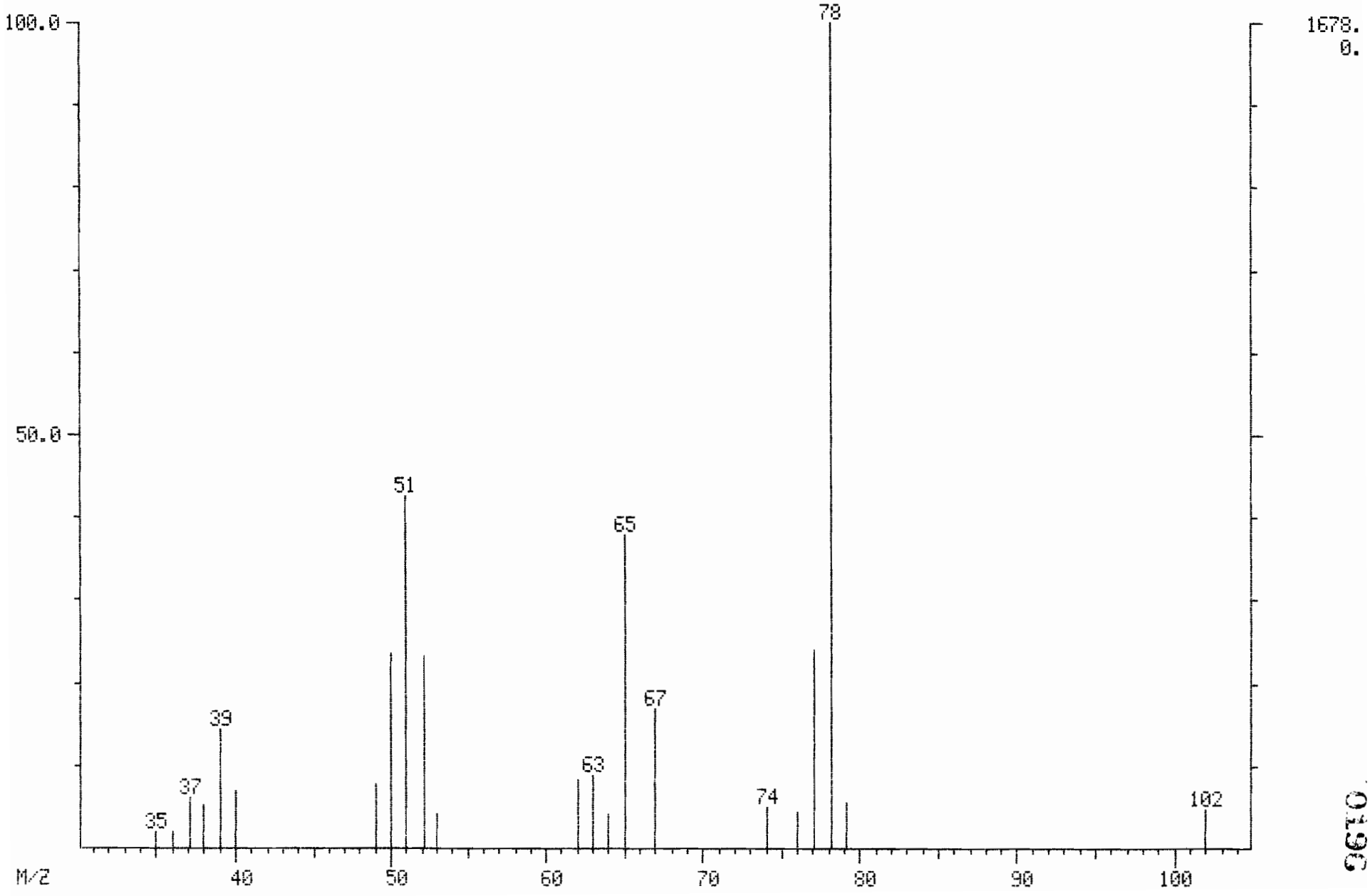
0195

MASS SPECTRUM
12/18/93 3:48:00 + 14:09
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 101 DEG. C

DATA: K8711 #986
CALI: K8711 #3

BASE M/Z: 78
RIC: 6008.

NAME: C165 BENZENE

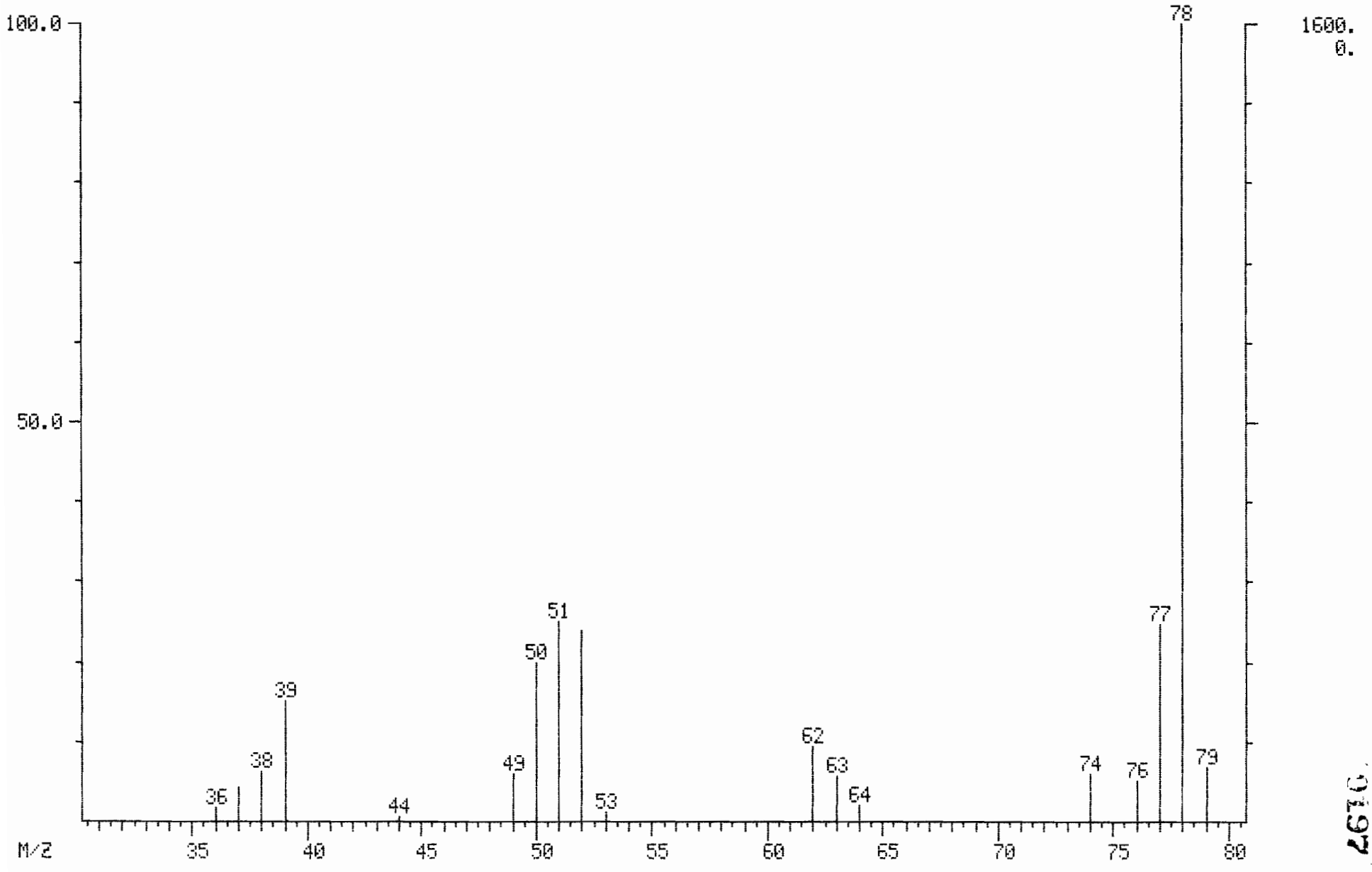


0196

MASS SPECTRUM
12/18/93 3:48:00 + 14:09
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 101 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C165 BENZENE

DATA: K8711 #386
CALI: K8711 #3

BASE M/Z: 78
RIC: 4216.

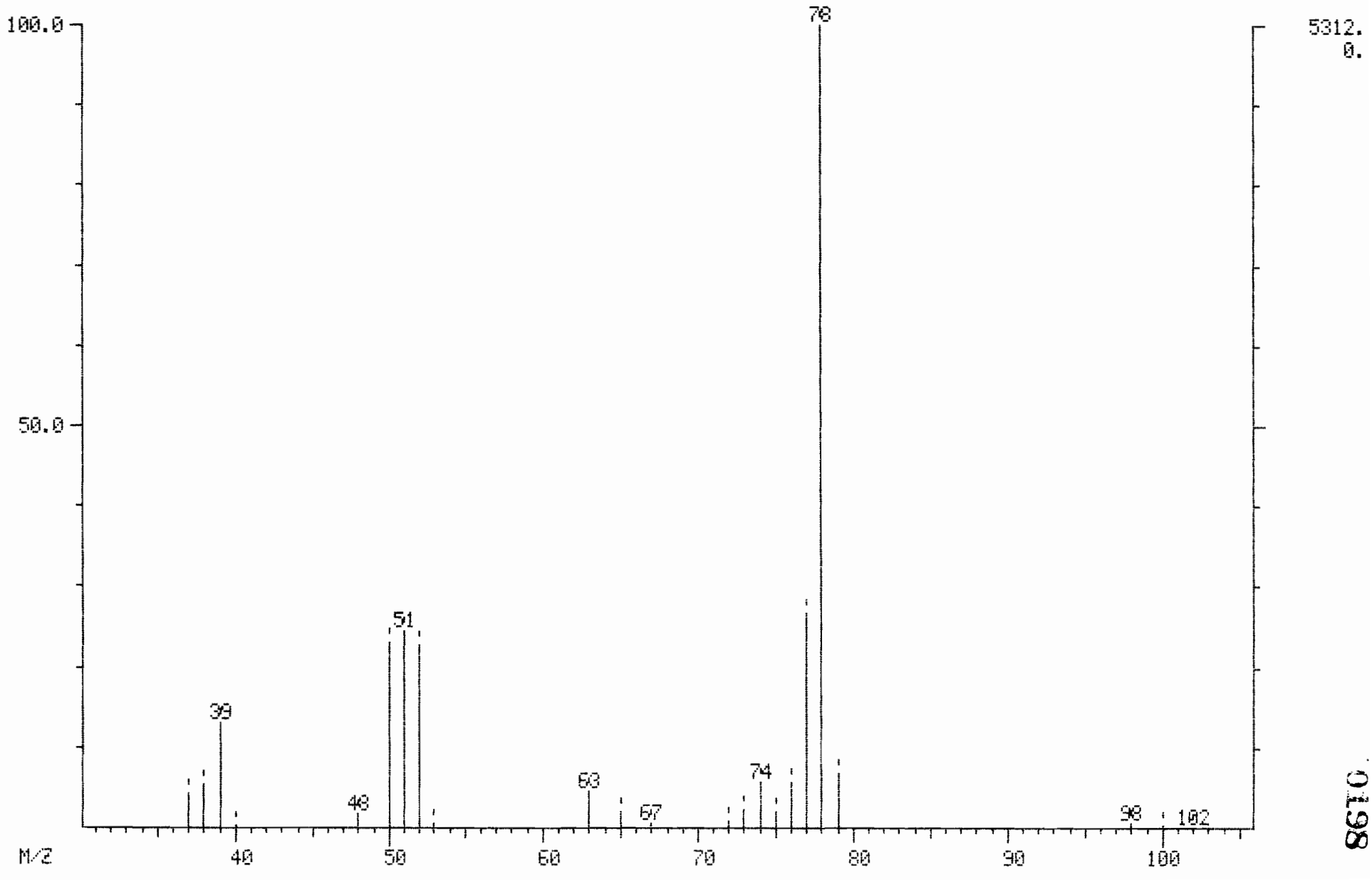


0197

MASS SPECTRUM
12/17/93 19:29:00 + 14:08
SAMPLE: VSTD050
CONDS.: I50K
TEMP: 101 DEG. C
#985 - #986NAME: C165 BENZENE

DATA: K8696 #985
CALI: K8696 #3

BASE M/Z: 78
RIC: 13504.



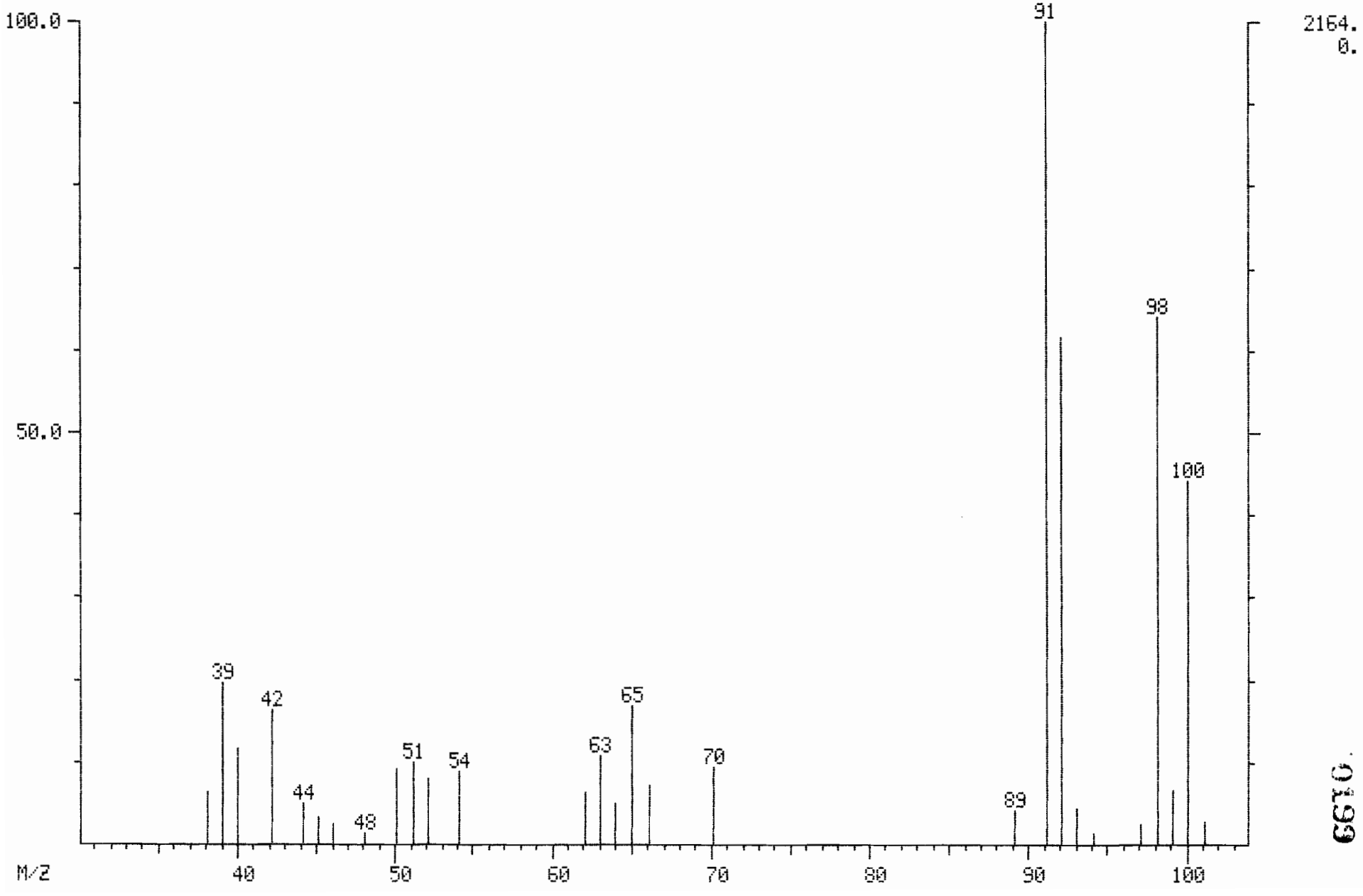
0198

MASS SPECTRUM
12/18/93 3:48:00 + 17:26
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 134 DEG. C

DATA: K8711 #1215
CALI: K8711 #3

BASE M/Z: 91
RIC: 9744.

NAME: C230 TOLUENE

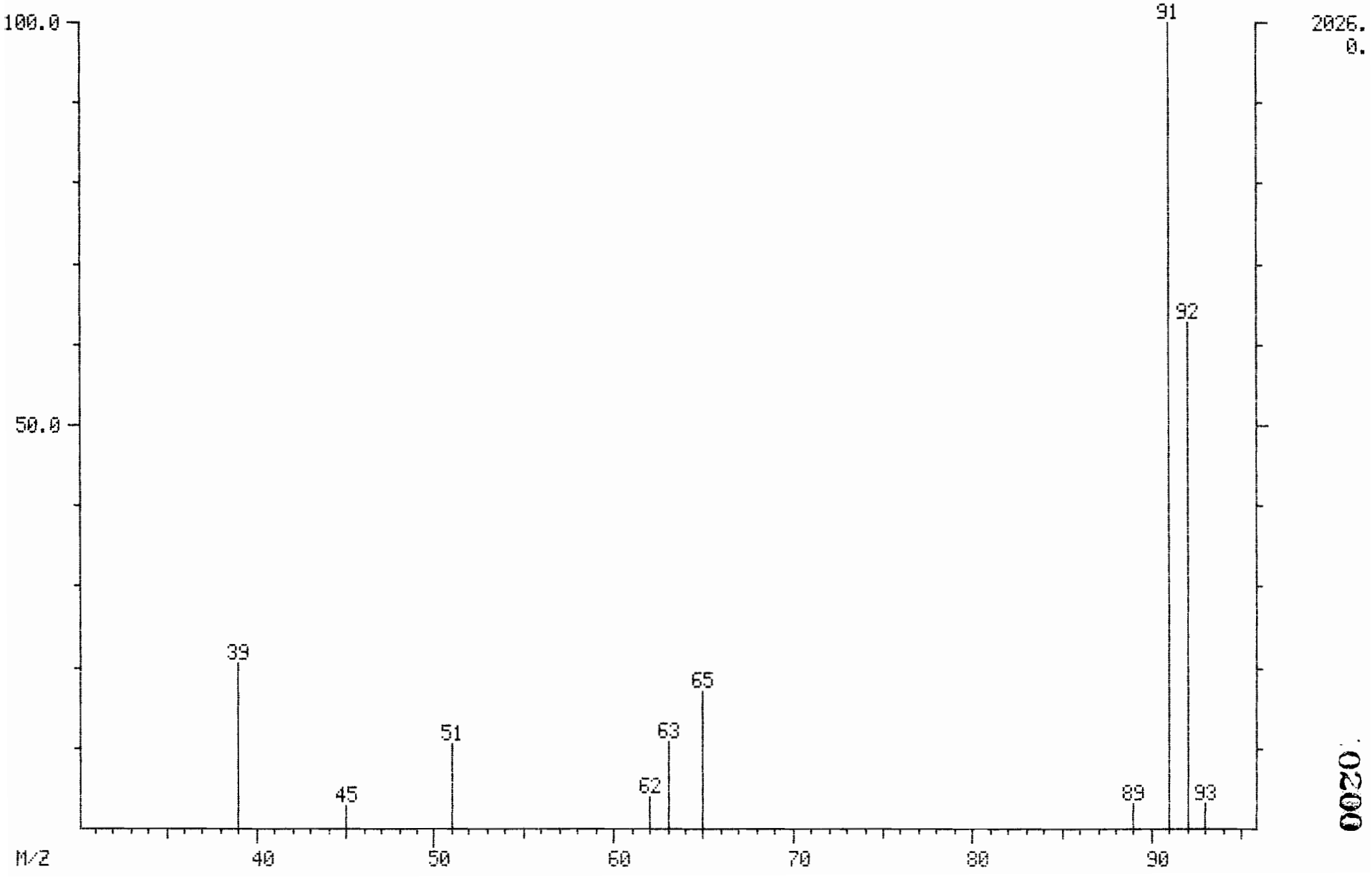


0199

MASS SPECTRUM
12/18/93 3:48:00 + 17:26
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 134 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C230 TOLUENE

DATA: K8711 #1215
CALI: K8711 #3

BASE M/Z: 91
RIC: 4760.



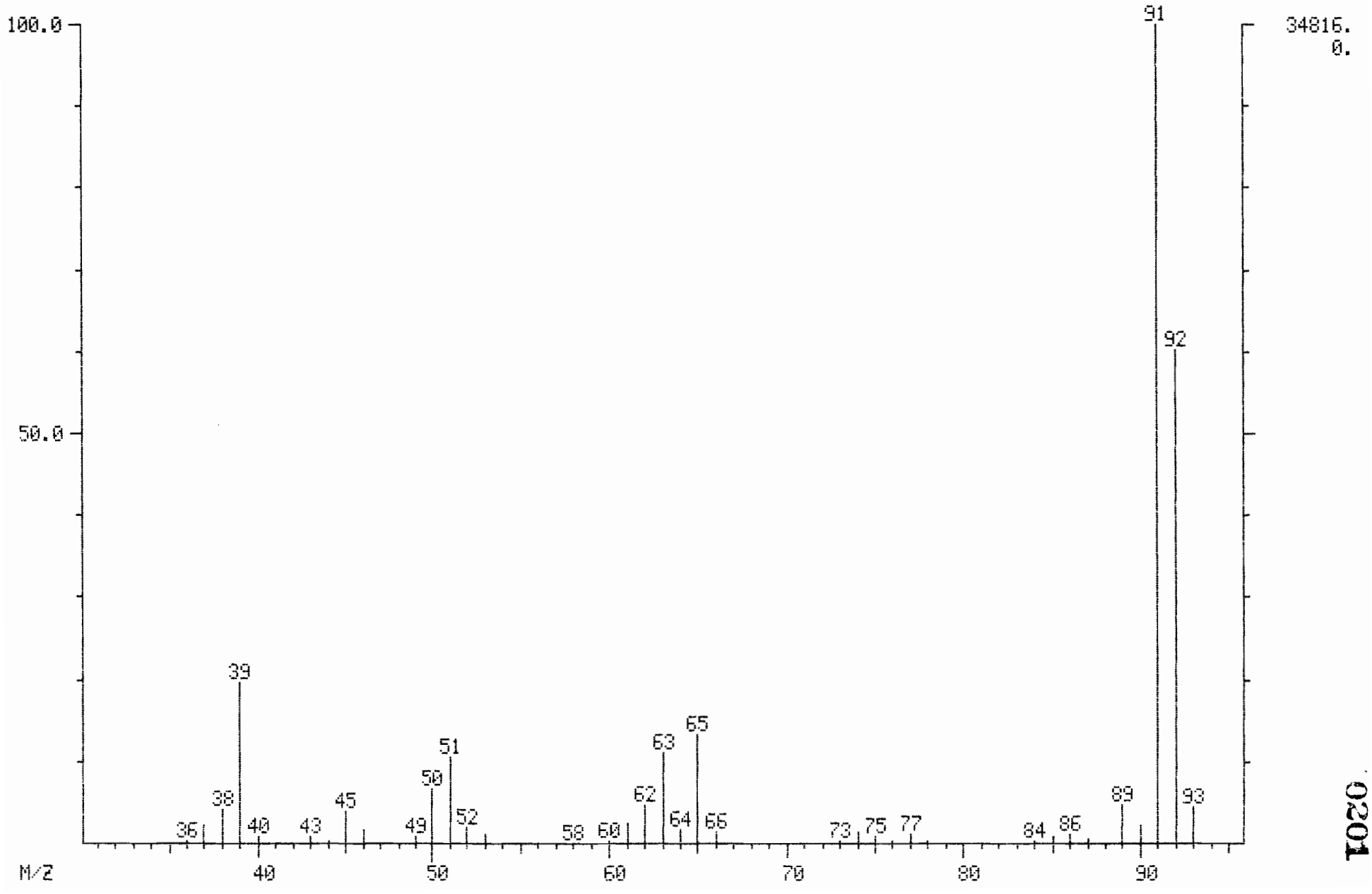
0200

MASS SPECTRUM
12/17/93 19:29:00 + 17:26
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-377 DEG. C

DATA: K8696 #1215
ENHANCED (S 15B 2N 0T)

BASE M/Z: 91
RIC: 93440.

NAME: C230 TOLUENE



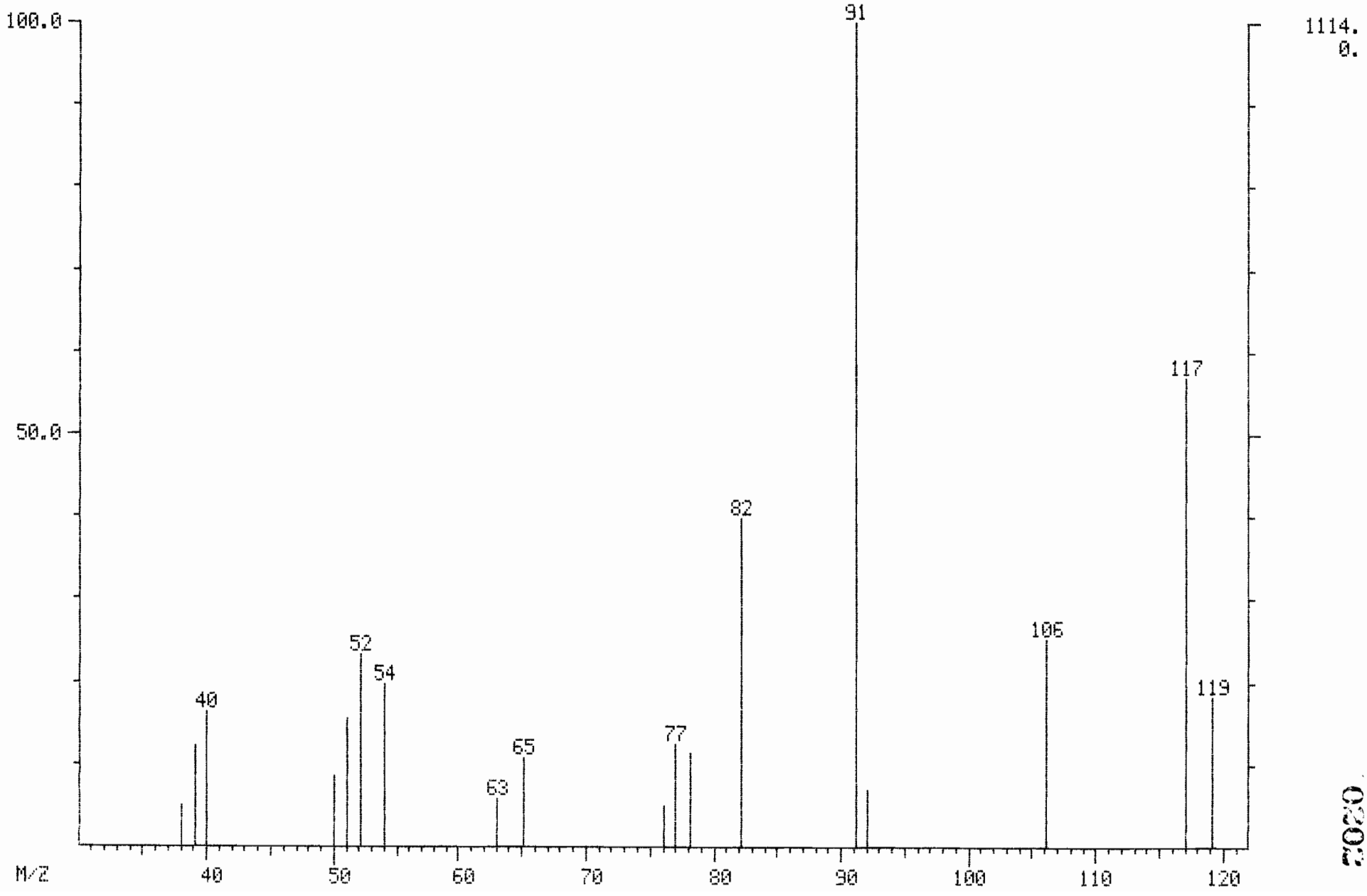
0201

MASS SPECTRUM
12/18/93 3:48:00 + 19:49
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 158 DEG. C

DATA: K8711 #1381
CALI: K8711 #3

BASE M/Z: 91
RIC: 4368.

NAME: C240 ETHYLBENZENE

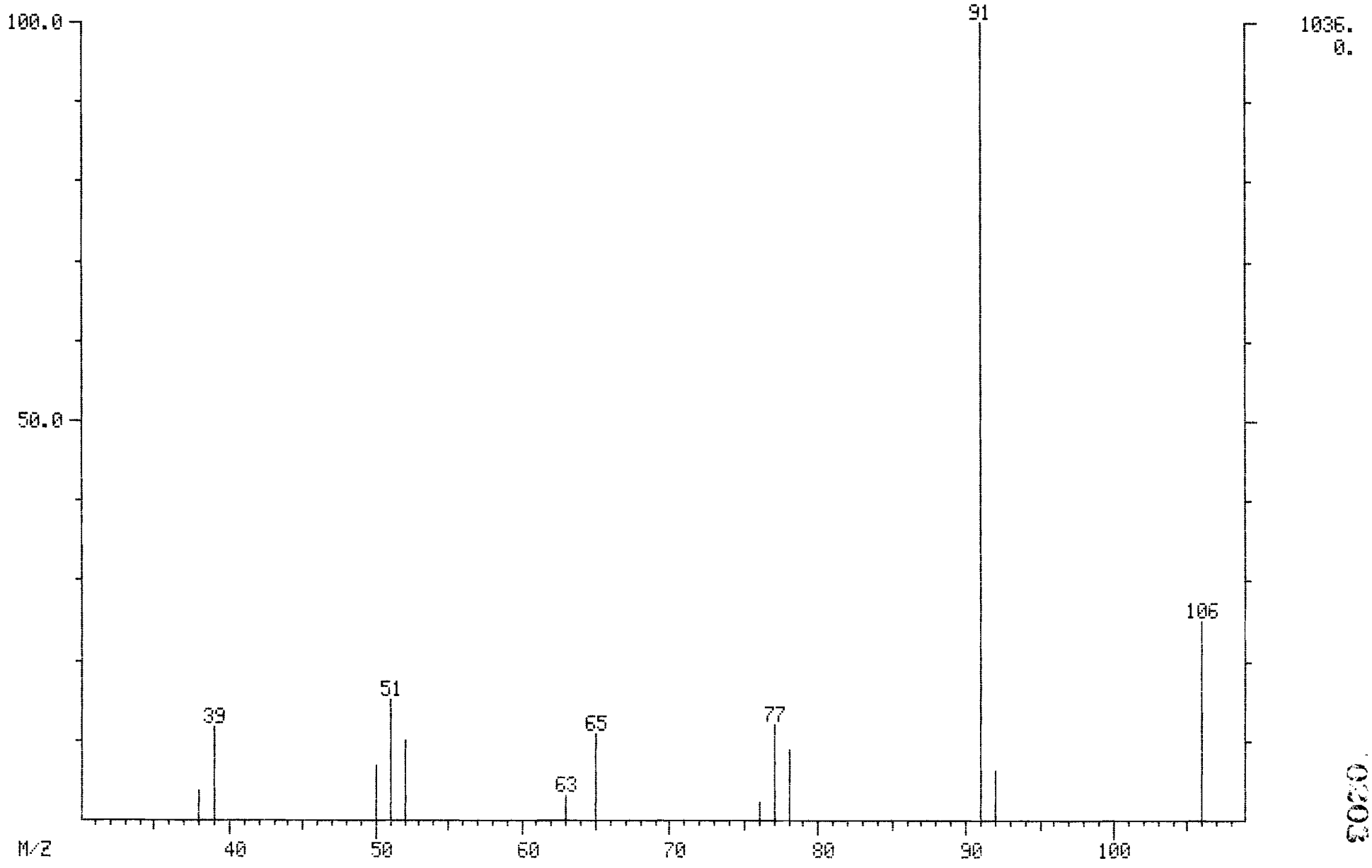


0203

MASS SPECTRUM
12/18/93 3:48:00 + 19:49
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 158 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C240 ETHYLBENZENE

DATA: K8711 #1381
CALI: K8711 #3

BASE M/Z: 91
RIC: 2236.

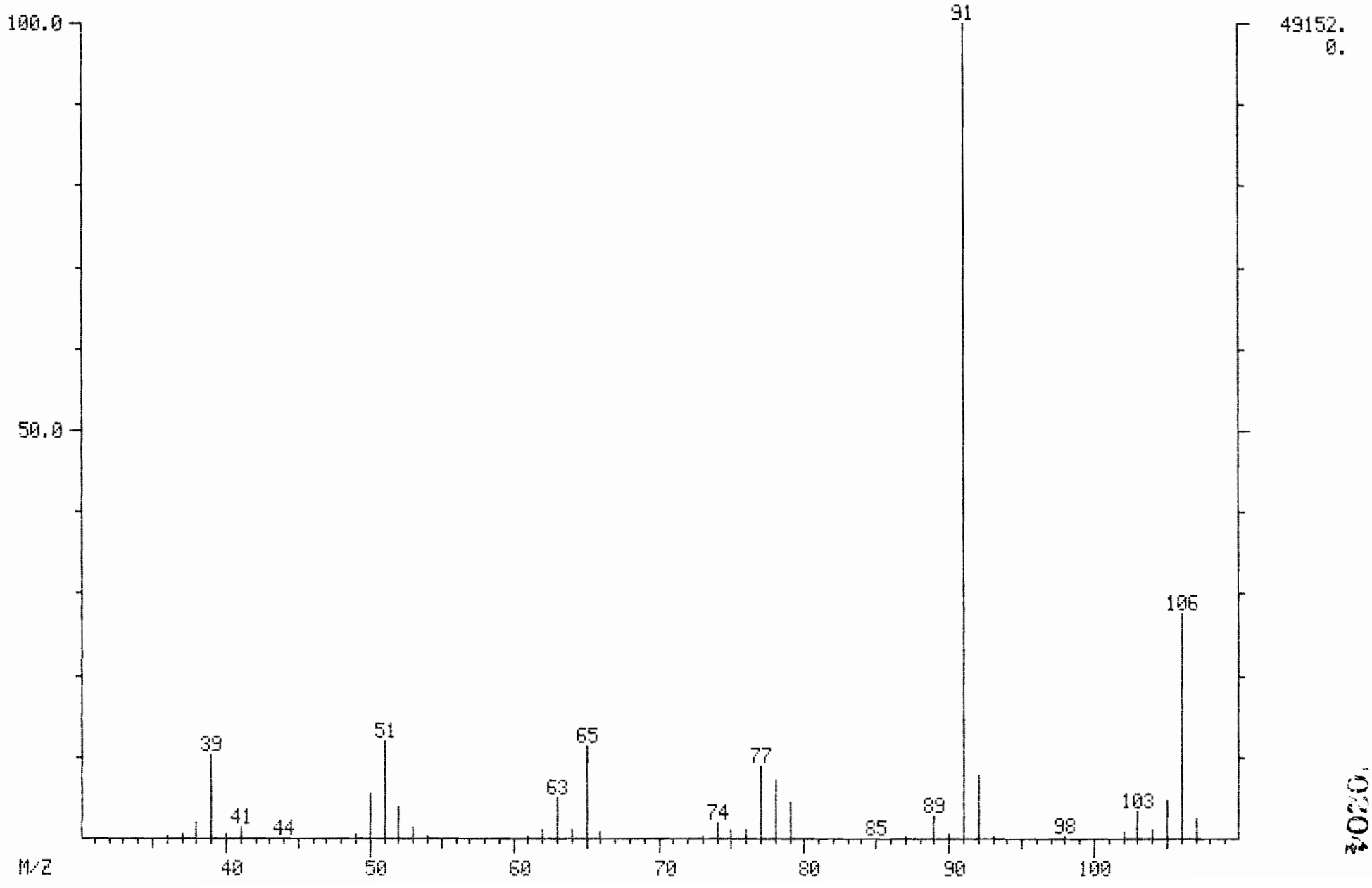


MASS SPECTRUM
12/17/93 19:29:00 + 19:49
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-353 DEG. C

DATA: K8696 #1380
ENHANCED (S 15B 2N 0T)

BASE M/Z: 91
RIC: 115584.

NAME: C240 ETHYLBENZENE



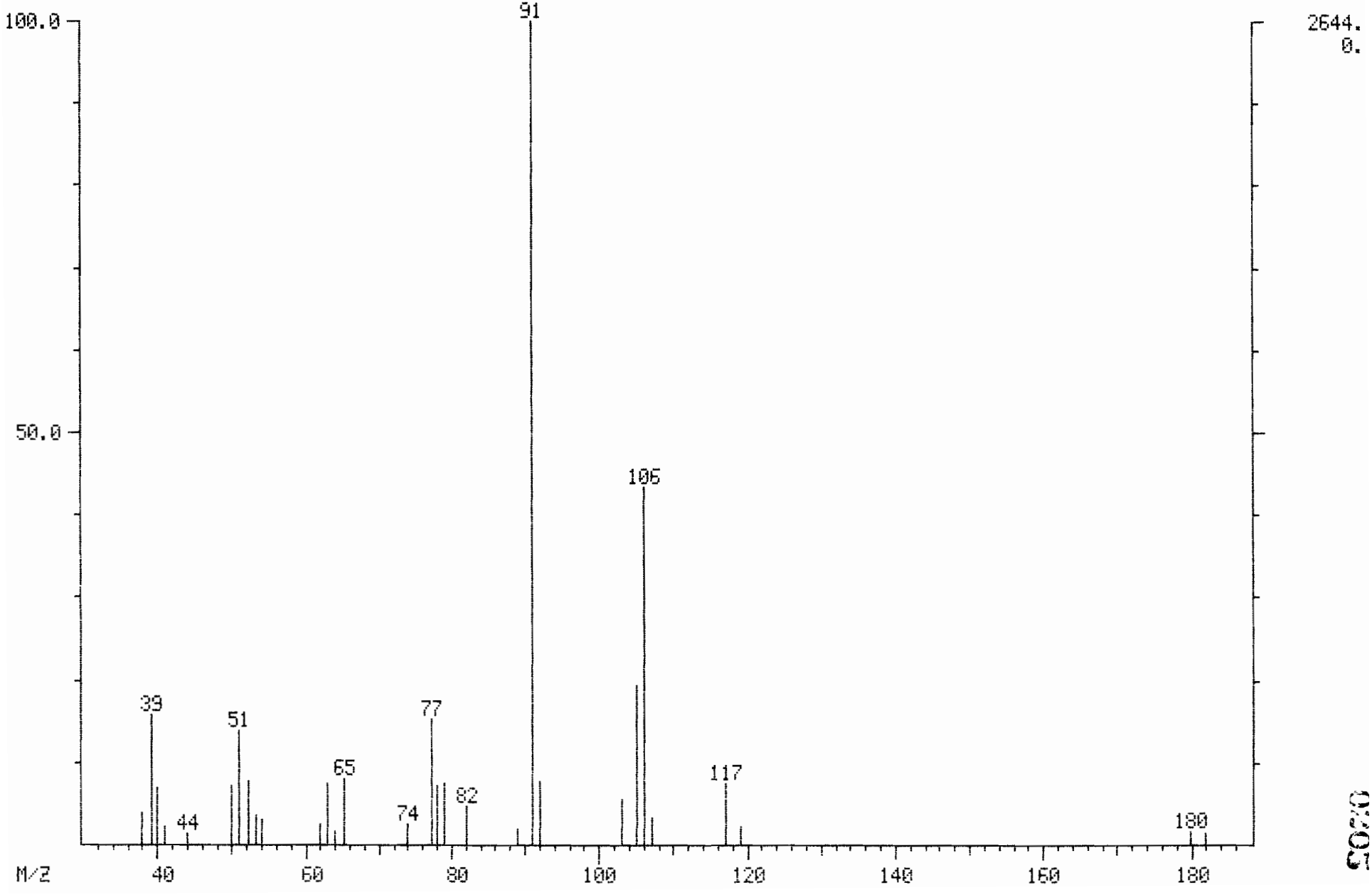
3020.

MASS SPECTRUM
12/18/93 3:48:00 + 20:00
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 159 DEG. C

DATA: K8711 #1393
CALI: K8711 #3

BASE M/Z: 91
RIC: 8368.

NAME: C246 M,P-XYLENE

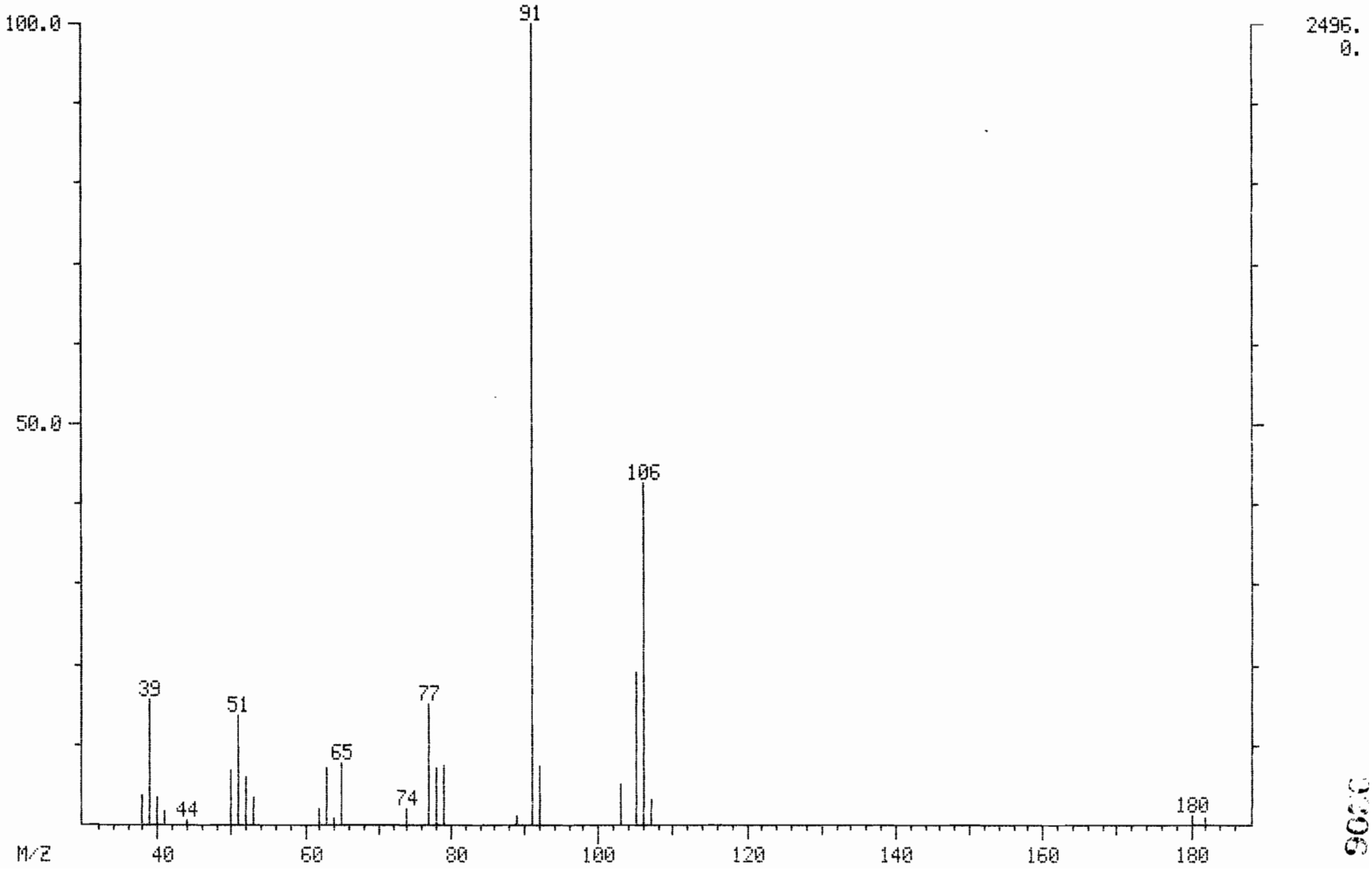


0205

MASS SPECTRUM
12/18/93 3:48:00 + 20:00
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 159 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C246 M,P-XYLENE

DATA: K8711 #1393
CALI: K8711 #3

BASE M/Z: 91
RIC: 7104.

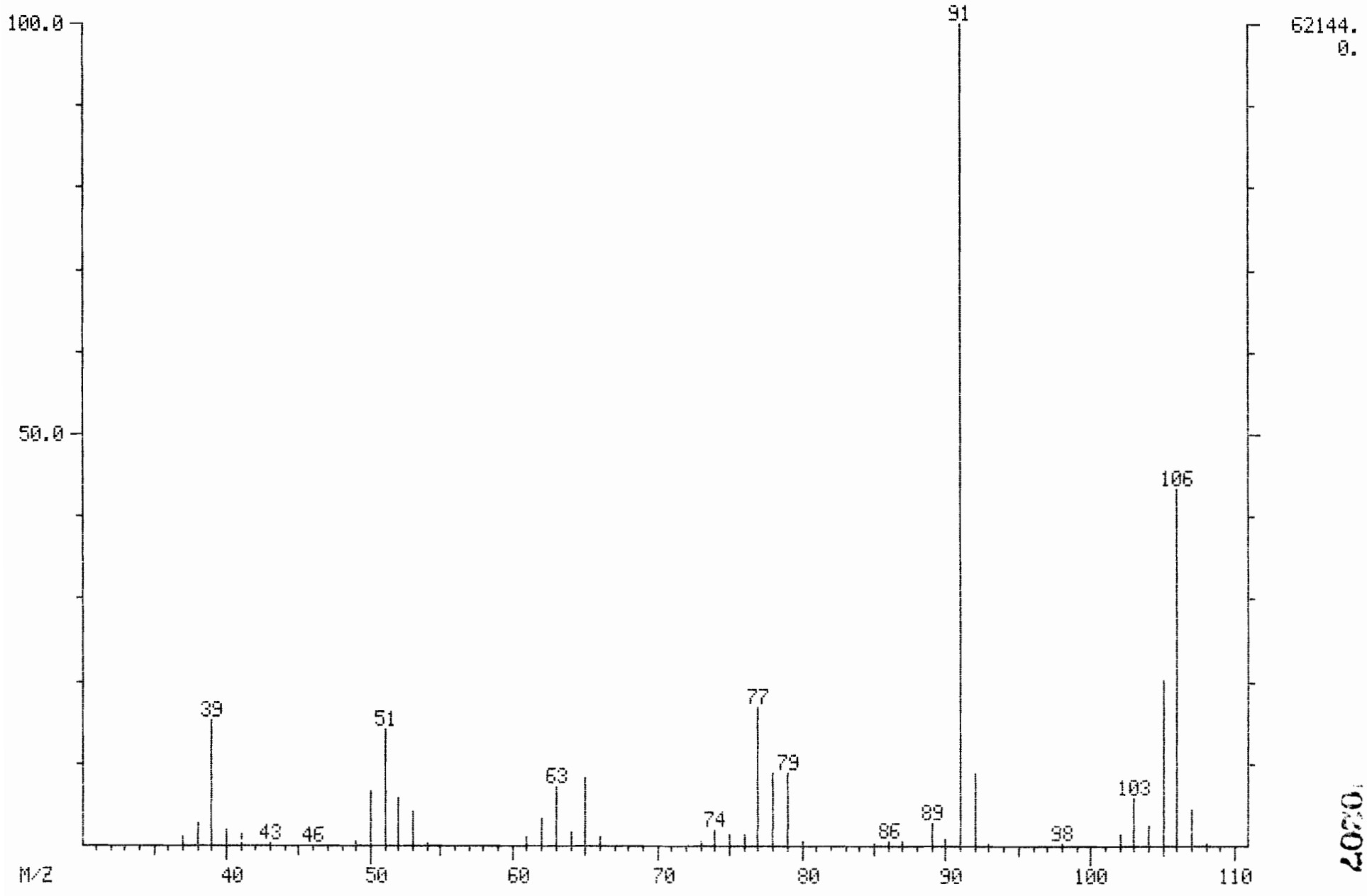


MASS SPECTRUM
12/17/93 19:29:00 + 19:59
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-352 DEG. C

DATA: K8696 #1392
ENHANCED (S 15B 2N 0T)

BASE M/Z: 91
RIC: 193024.

NAME: C246 M,P-XYLENE



0220

TIC QUANTITATION REPORT: AMOUNTS BASED ON AREA

9308

Quantitation Report File: K8711

Data: K8711.TI
12/18/93 3:48:00
Sample: AS053079 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	0-00-0	CI10 1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	0-00-0	CI20 D5-CHLOROBENZENE *INTERNAL STANDARD*
4	0-00-0	UNKNOWN
5	75-28-5	ISOBUTANE
6	78-78-4	BUTANE, 2-METHYL-
7	109-66-0	PENTANE
8	0-00-0	UNKNOWN

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	TOT	898	12:53	1	1.000	A BB	290697.	250.000	NG	22.94
2	TOT	1033	14:50	2	1.000	A BB	370421.	250.000	NG	22.94
3	TOT	1368	19:38	3	1.000	A BV	424170.	250.000	NG	22.94
4	TOT	260	3:44	1	0.290	A VB	140856.	121.136		11.11
5	TOT	293	4:12	1	0.326	A BB	121323.	104.338		9.57
6	TOT	411	5:54	1	0.458	A BB	61156.	52.594		4.83
~~7~~	~~TOT~~	~~460~~	~~6:36~~	~~1~~	~~0.512~~	~~A BB~~	~~24227~~	~~20.835~~		~~1.91~~
8	TOT	701	10:04	1	0.781	A BB	47768.	41.080		3.77

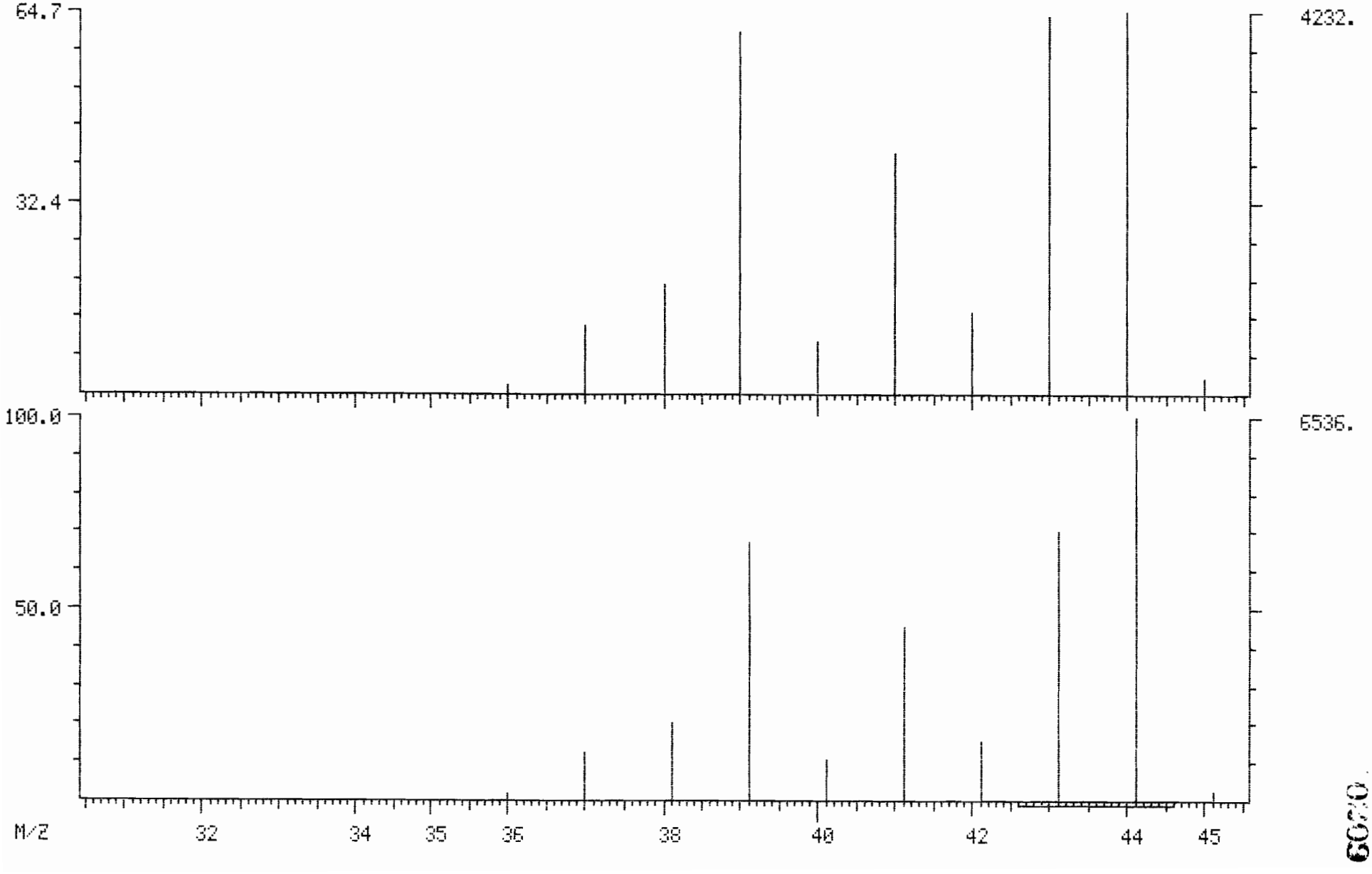
<1%

12/19/93

DUAL MASS SPECTRUM
12/18/93 3:48:00 + 3:44
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: K8711 #260
CALI: K8711 #3

BASE M/Z: 44/ 44
RIC: 18848./ 22592.



6670

Library Search Data: K8711 # 260 Base m/z: 44
12/18/93 3:48:00 + 3:44 Cali: K8711 # 3 RIC: 18848.
Sample: AS053079 JOB4488
Mds.: I50K
Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
180 matched at least 5 of the 10 largest peaks in the unknown

Rank	In.	Name
1	265	CYCLOPROPYL CARBINOL
2	865	PROPANE, 2-NITRO-
3	24	METHANE, ISOCYANO-
4	363	1-PROPENE, 3-CHLORO-
5	717	PROPANE, 2-(ETHENYLOXY)-

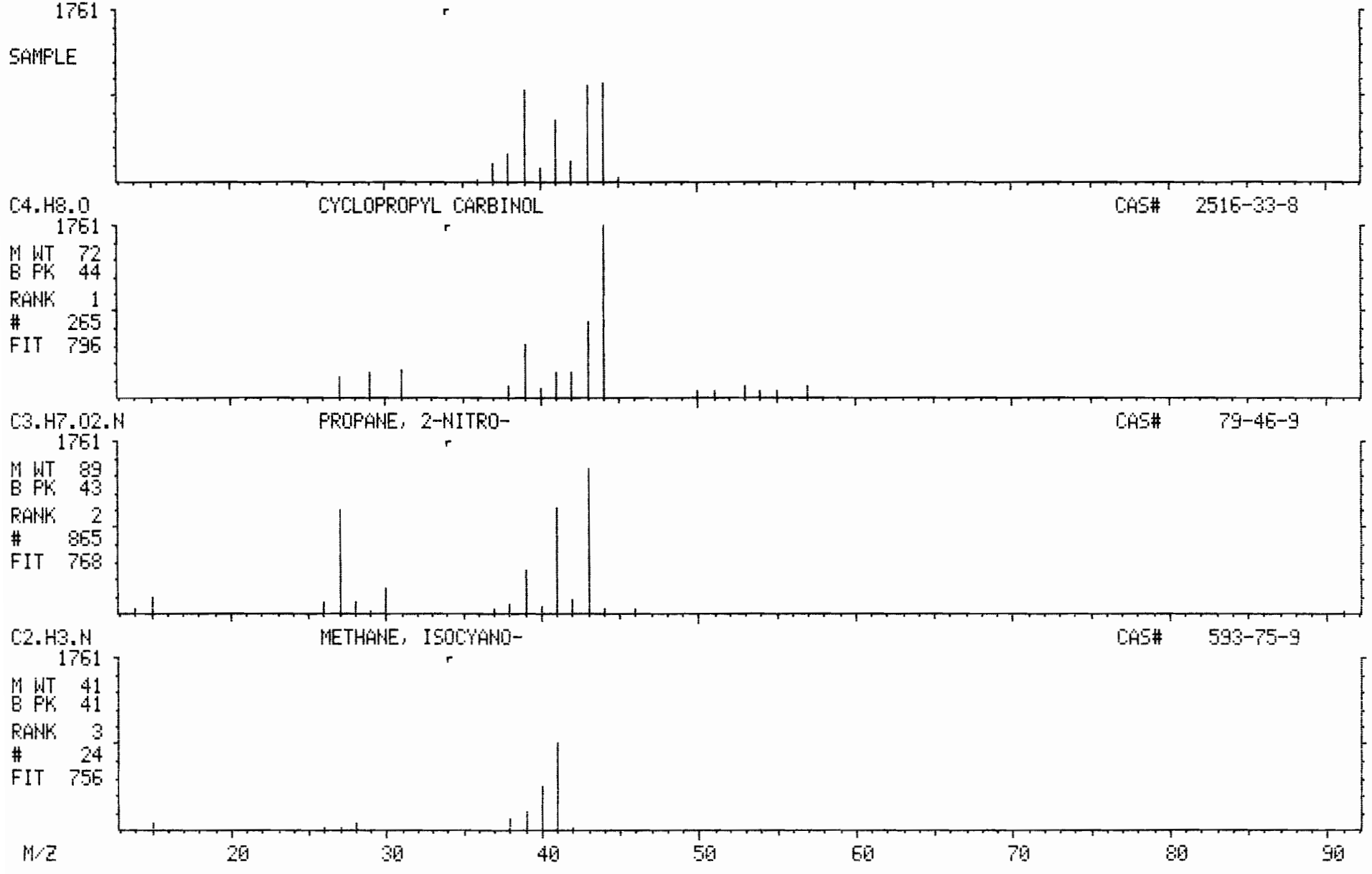
Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C4. H8. O	72	44	756	796	882
2	C3. H7. O2. N	89	43	756	768	769
3	C2. H3. N	41	41	362	756	362
4	C3. H5. CL	76	41	391	751	486
5	C5. H10. O	86	43	663	737	812

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	———	———	———	———	2516-33-8
2	———	———	———	———	79-46-9
3	———	———	———	———	593-75-9
4	———	———	———	———	107-05-1
	———	———	———	———	926-65-8

MID LIBRARY SEARCH (LIBRARYNB)
12/18/93 3:48:00 + 3:44
SAMPLE: AS053079 JOB4488
CONDS.: I50K
ENHANCED (S 15B 2N 0T)

DATA: K8711 # 260
CALI: K8711 # 3

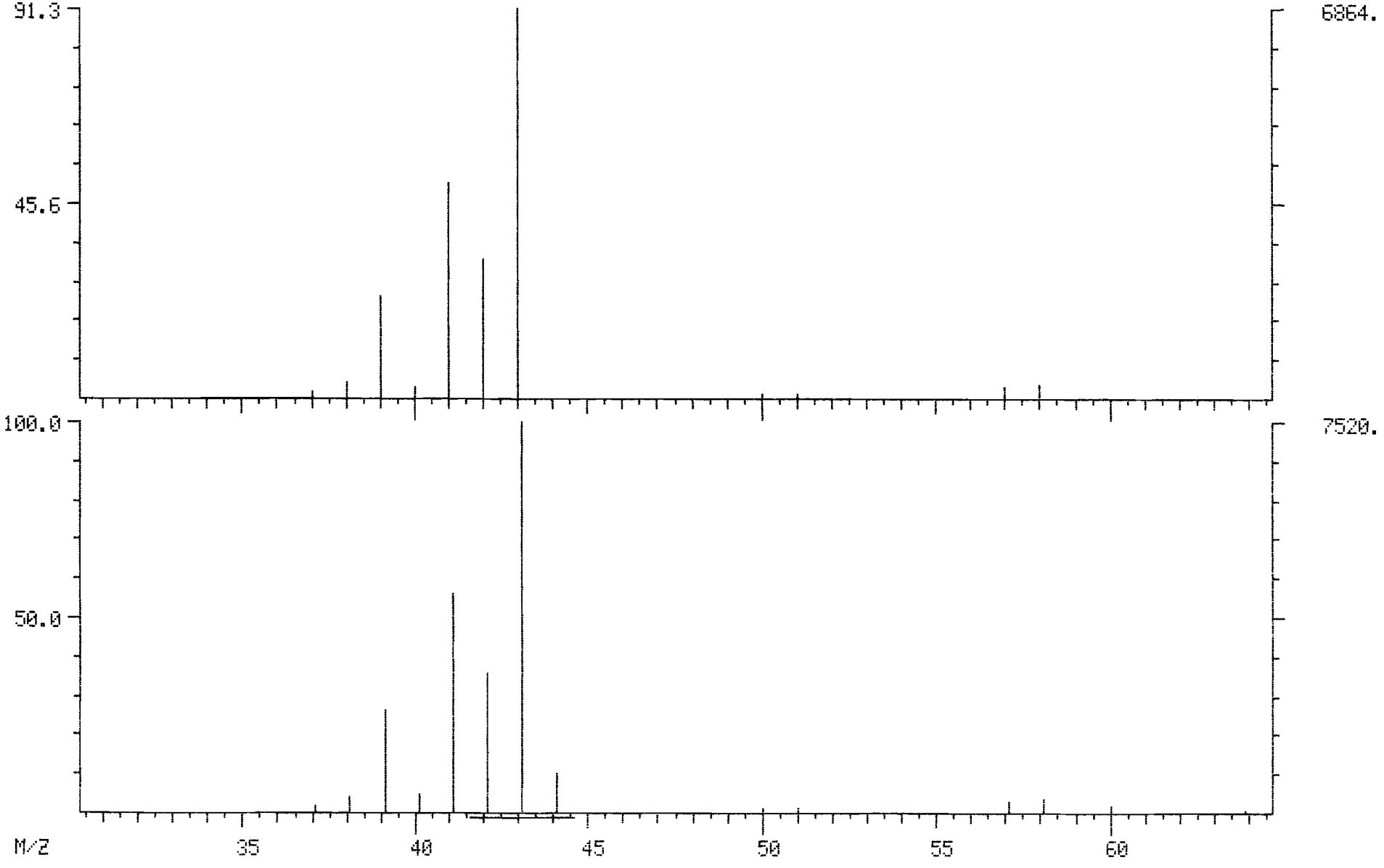
BASE M/Z: 44
RIC: 18848.



DUAL MASS SPECTRUM
12/18/93 3:48:00 + 4:12
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: K8711 #293
CALI: K8711 #3

BASE M/Z: 43/ 43
RIC: 16192./ 18784.



Library Search Data: K8711 # 293 Base m/z: 43
12/18/93 3:48:00 + 4:12 Cali: K8711 # 3 RIC: 16192.
Sample: AS053079 JOB4488
Ids.: I50K
Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
205 matched at least 5 of the 12 largest peaks in the unknown

Rank	In.	Name
1	96	ISOBUTANE
2	865	PROPANE, 2-NITRO-
3	97	BUTANE
4	277	PENTANE
5	1443	ACETIC ACID, 2-PROPENYL ESTER

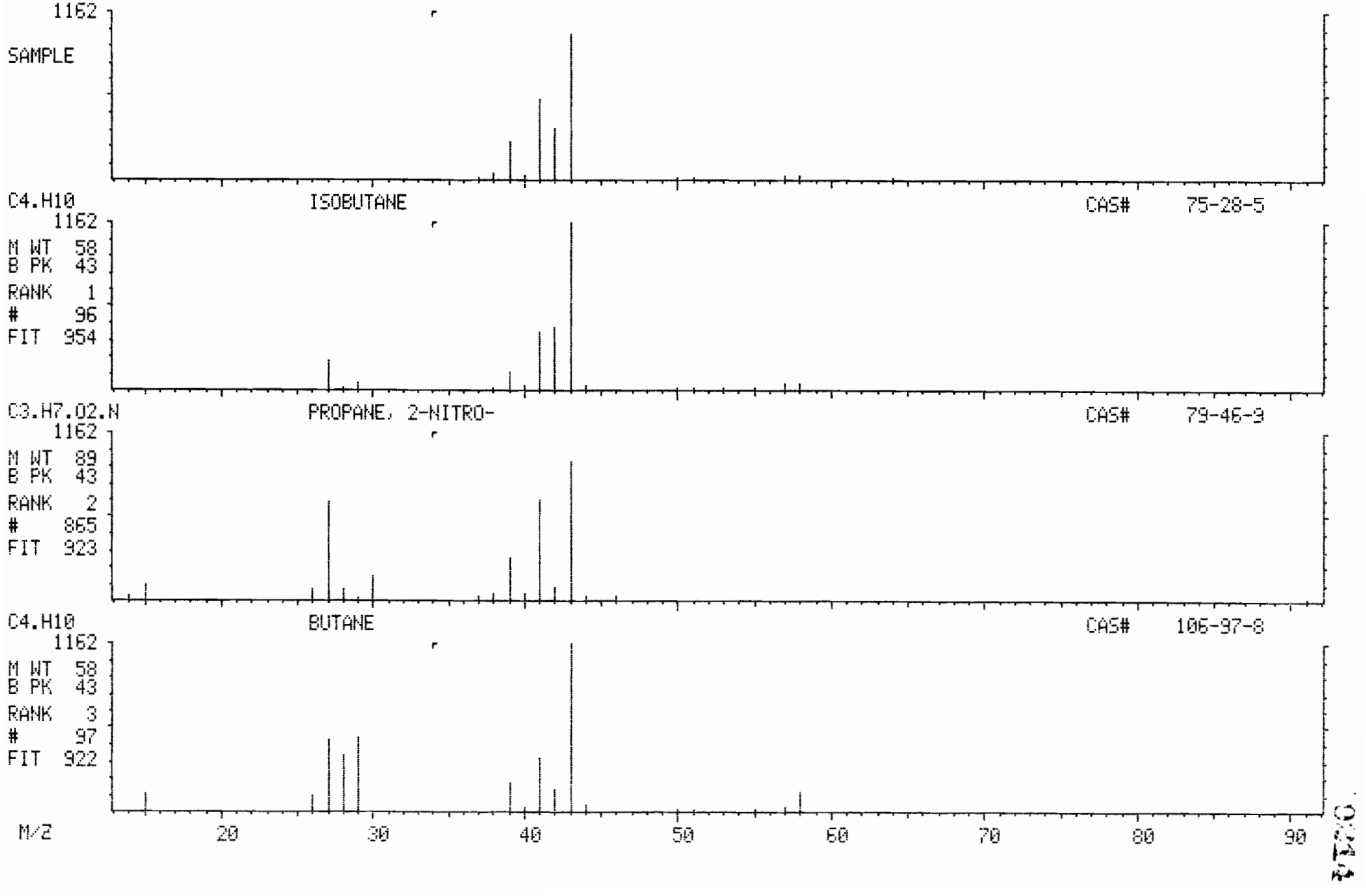
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H10	58	43	945	954	969
2	C3.H7.O2.N	89	43	876	923	905
3	C4.H10	58	43	898	922	922
4	C5.H12	72	43	820	870	911
5	C5.H8.O2	100	43	828	845	857

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	75-28-5
2	___	___	___	___	79-46-9
3	___	___	___	___	106-97-8
4	___	___	___	___	109-66-0
	___	___	___	___	591-87-7

MID LIBRARY SEARCH (LIBRARYNB)
12/18/93 3:48:00 + 4:12
SAMPLE: AS053079 JOB4488
CONDS.: I50K
ENHANCED (S 15B 2N 0T)

DATA: K8711 # 293
CALI: K8711 # 3

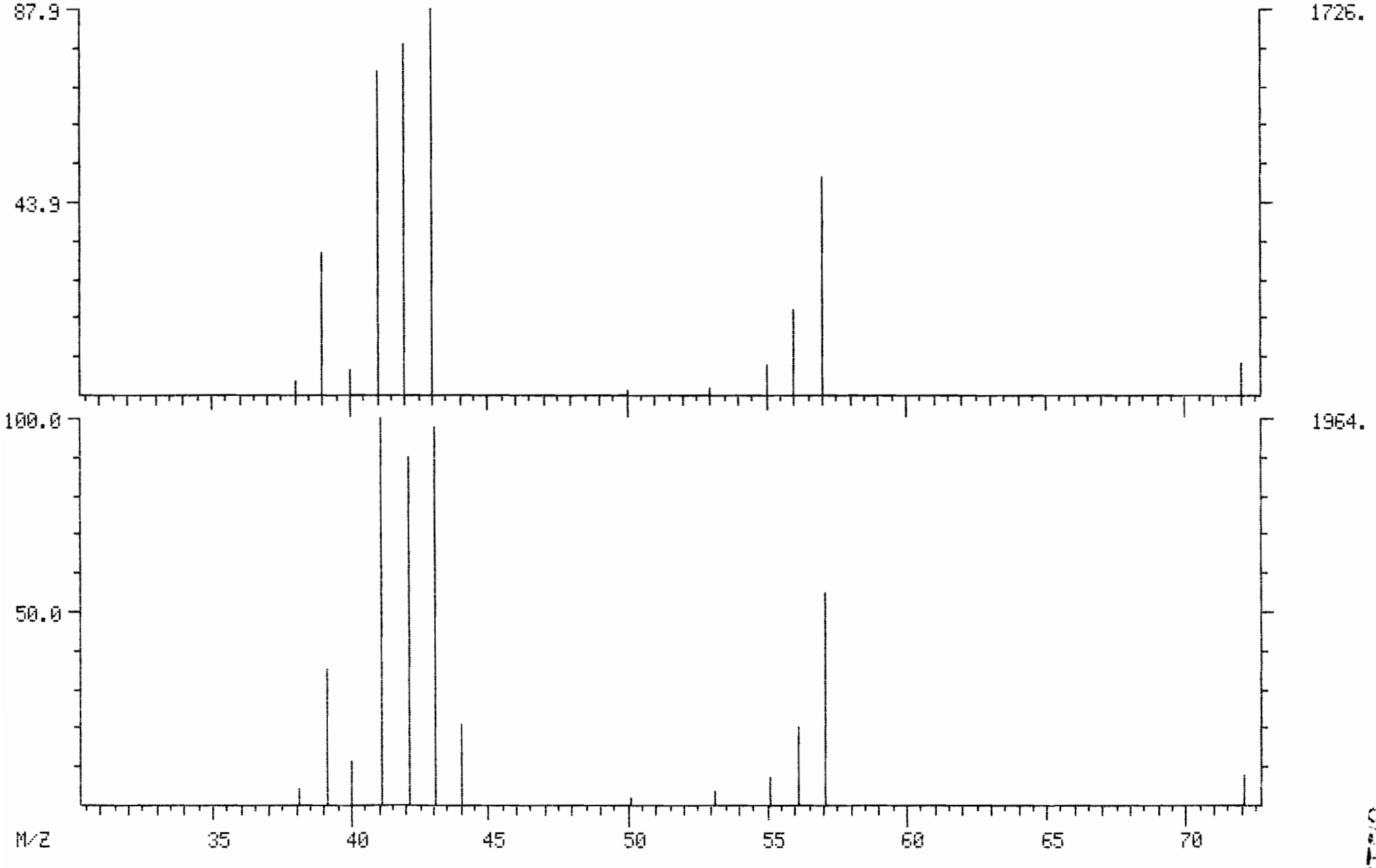
BASE M/Z: 43
RIC: 16192.



DUAL MASS SPECTRUM
12/18/93 3:48:00 + 5:54
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 40 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: K8711 #411
CALI: K8711 #3

BASE M/Z: 43/ 41
RIC: 7232./ 8928.



0445

Library Search Data: K8711 # 411 Base m/z: 43
12/18/93 3:48:00 + 5:54 Cali: K8711 # 3 RIC: 7232.
Sample: AS053079 JOB4488
Mds.: I50K
Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
176 matched at least 6 of the 12 largest peaks in the unknown

Rank	In.	Name
1	278	BUTANE, 2-METHYL-
2	277	PENTANE
3	8441	NITROXIDE, BIS(1,1-DIMETHYLETHYL)
4	7838	DIALLYL CARBONATE
5	1808	PROPANE, 2-METHYL-1-NITRO-

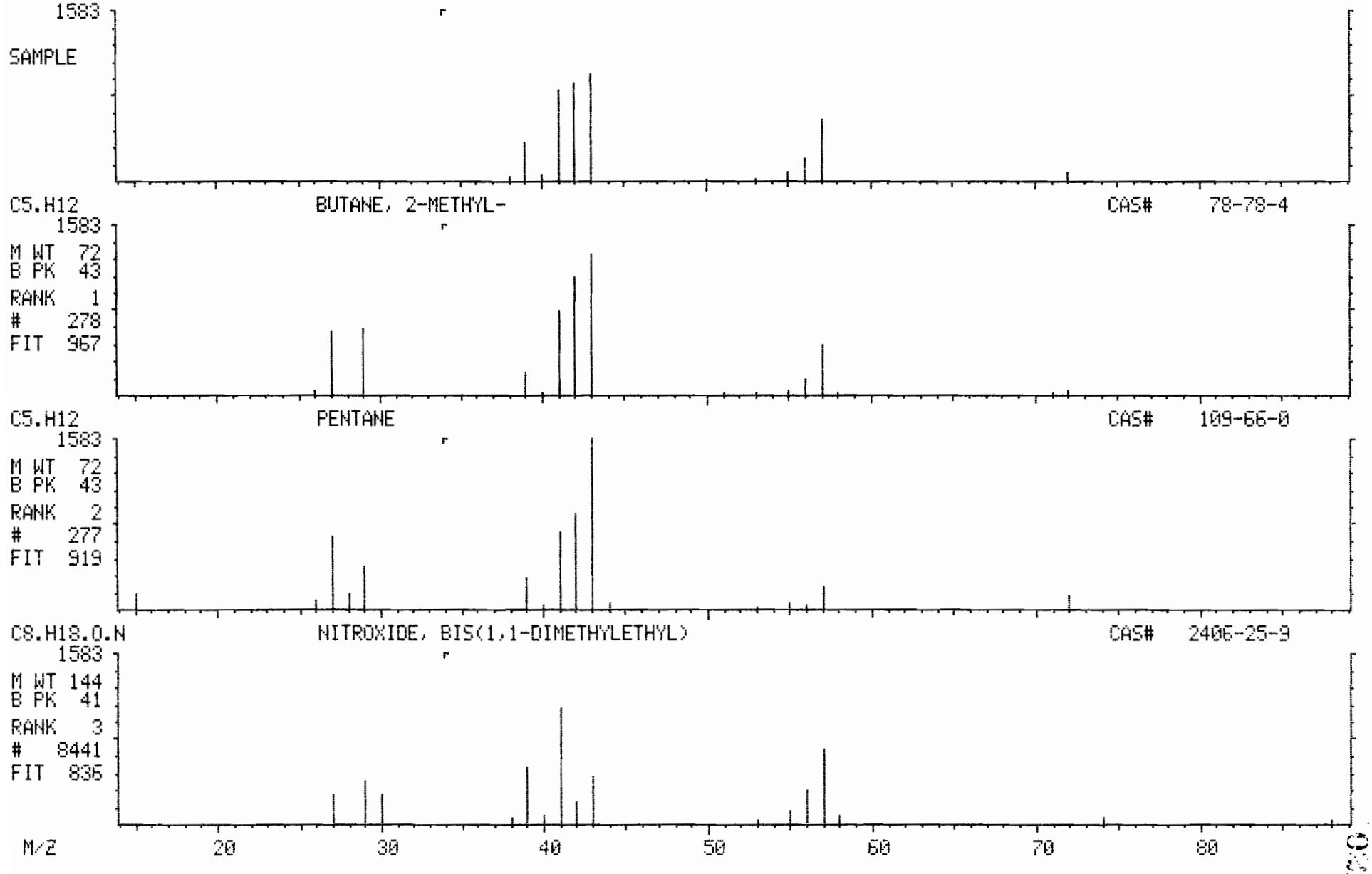
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C5.H12	72	43	958	967	970
2	C5.H12	72	43	910	919	922
3	C8.H18.O.N	144	41	808	836	870
4	C7.H10.O3	142	41	546	814	575
5	C4.H9.O2.N	103	41	762	799	768

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	78-78-4
2	___	___	___	___	109-66-0
3	___	___	___	___	2406-25-9
4	___	___	___	___	15022-08-9
	___	___	___	___	625-74-1

MID LIBRARY SEARCH (LIBRARYNB)
12/18/93 3:48:00 + 5:54
SAMPLE: AS053079 JOB4488
CONDS.: I50K
ENHANCED (S 15B 2N 0T)

DATA: K8711 # 411
CALI: K8711 # 3

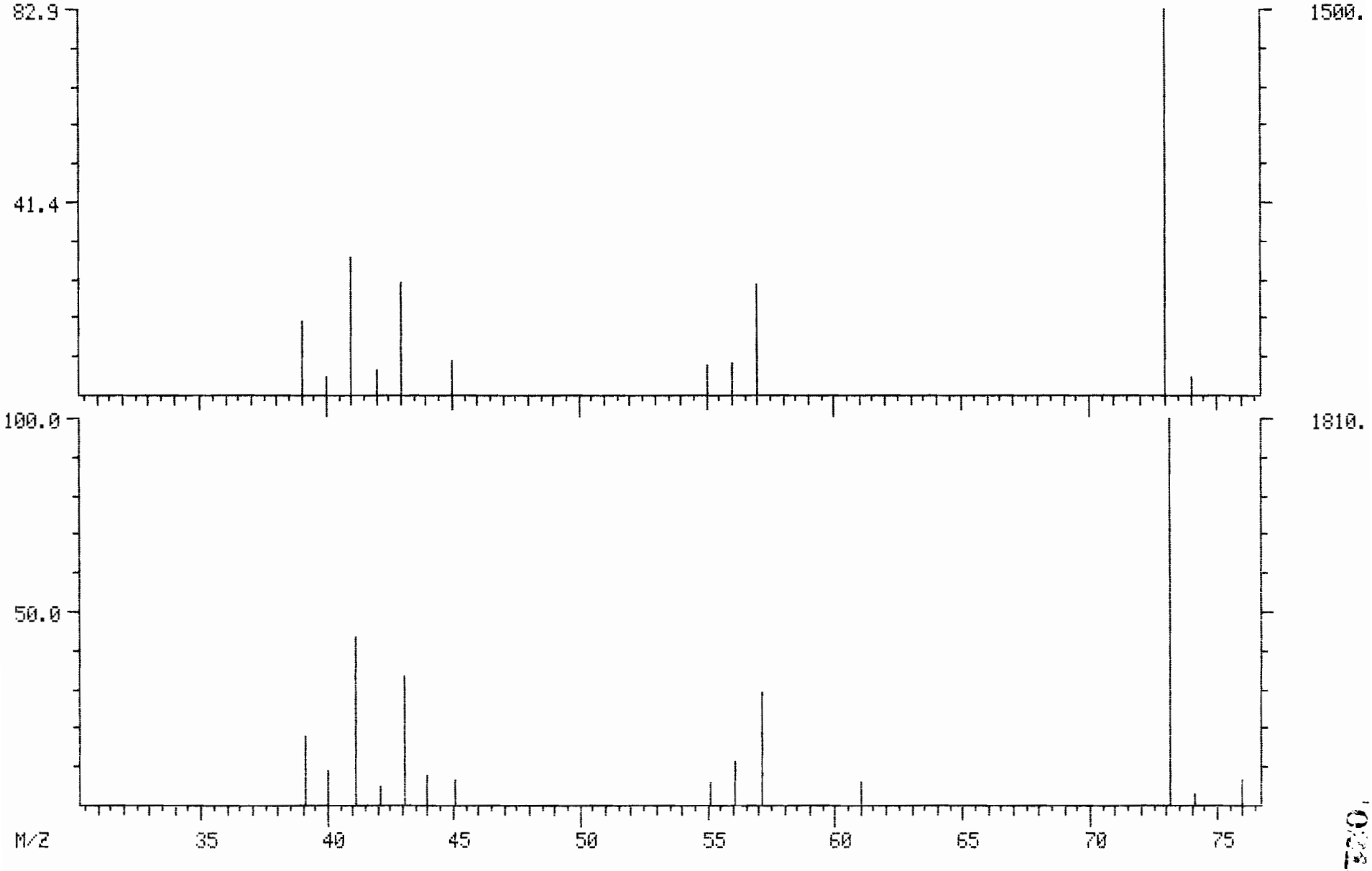
BASE M/Z: 43
RIC: 7232.



DUAL MASS SPECTRUM
12/18/93 3:48:00 + 10:05
SAMPLE: AS053079 JOB4488
CONDS.: I50K
TEMP: 60 DEG. C
ENHANCED (S 15B 2N 0T)

DATA: K8711 #702
CALI: K8711 #3

BASE M/Z: 73/ 73
RIC: 3808./ 5152.



0238

Library Search Data: K8711 # 702 Base m/z: 73
12/18/93 3:48:00 + 10:05 Cali: K8711 # 3 RIC: 3808.
Sample: AS053079 JOB4488
Ids.: I50K
Enhanced (S 15B 2N OT)

62231 spectra in LIBRARYNB searched for maximum FIT
232 matched at least 6 of the 11 largest peaks in the unknown

Rank	In.	Name
1	1808	PROPANE, 2-METHYL-1-NITRO-
2	8441	NITROXIDE, BIS(1,1-DIMETHYLETHYL)
3	3259	2-BUTANONE, 3-METHOXY-3-METHYL-
4	7838	DIALLYL CARBONATE
5	8549	PENTANE, 2-METHOXY-2,4,4-TRIMETHYL-

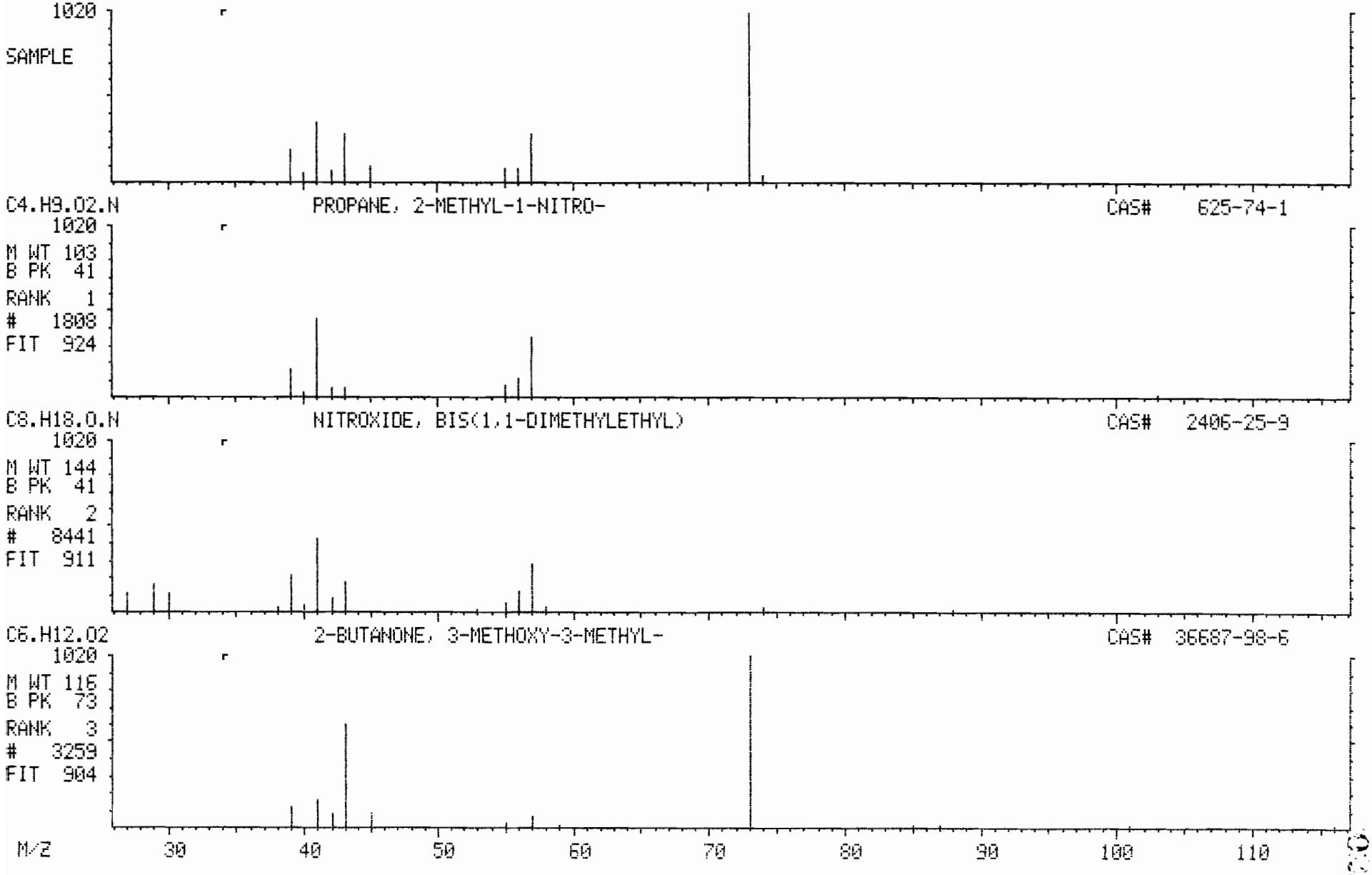
Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H9.O2.N	103	41	412	924	415
2	C8.H18.O.N	144	41	427	911	459
3	C6.H12.O2	116	73	842	904	868
4	C7.H10.O3	142	41	294	894	316
5	C9.H20.O	144	73	855	892	926

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	___	___	___	___	625-74-1
2	___	___	___	___	2406-25-9
3	___	___	___	___	36687-98-6
4	___	___	___	___	15022-08-9
	___	___	___	___	62108-41-2

MID LIBRARY SEARCH (LIBRARYNB)
12/18/93 3:48:00 + 10:05
SAMPLE: AS053079 JOB4488
CONDS.: I50K
ENHANCED (S 15B 2N 0T)

DATA: K8711 # 702
CALI: K8711 # 3

BASE M/Z: 73
RIC: 3808.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

TBLANK

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053082

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8709

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. ____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

EPA SAMPLE NO.

TBLANK

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053082

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8709

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

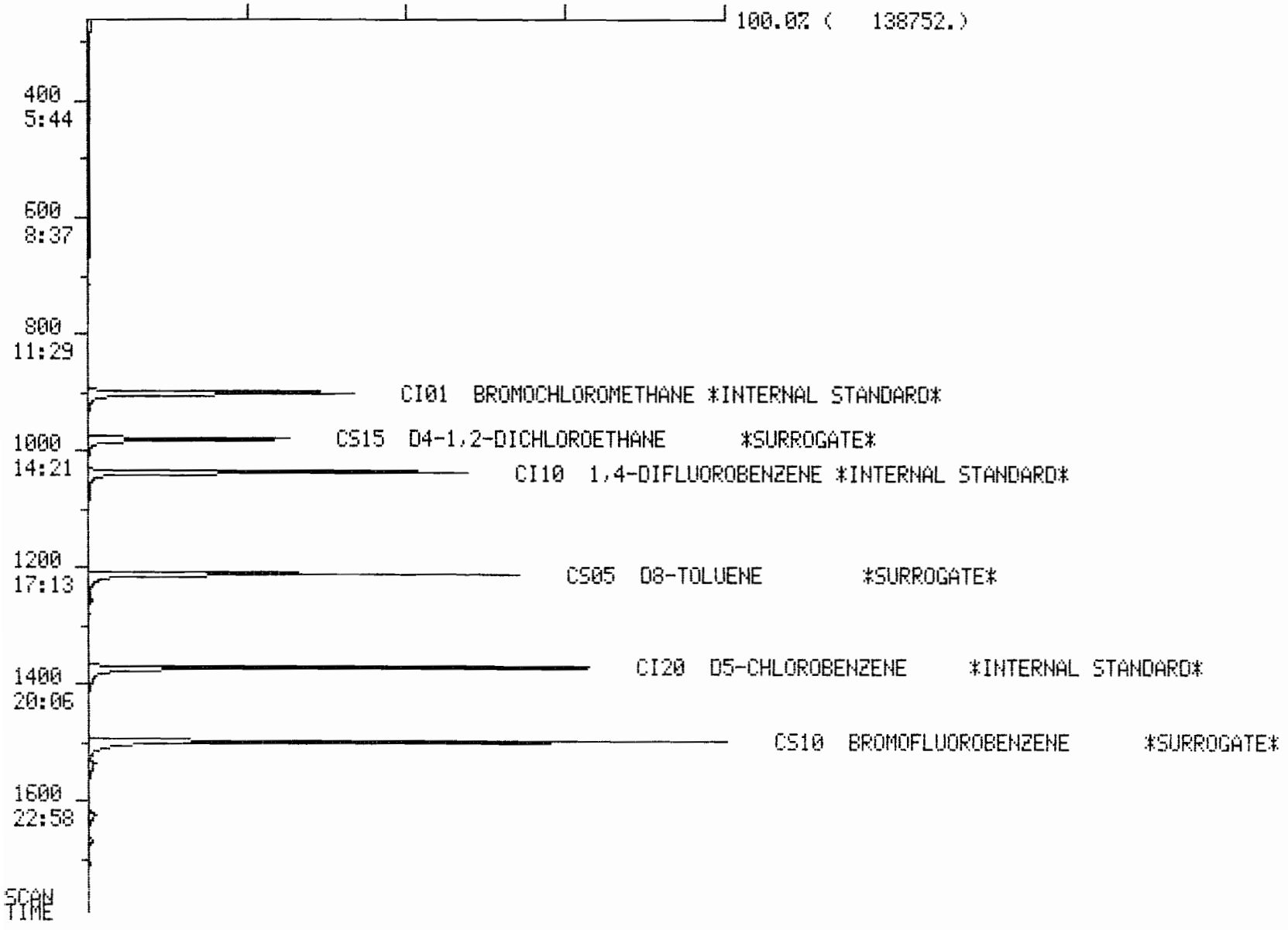
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

DATA FROM FILE: K8709 SCANS 260 TO 1790 ACQUIRED: 12/18/93 2:41:00
CALI: K8709 #3

SAMPLE: AS053082 JOB4488
CONDS.: I50K



Quantitation Report File: K8709

Data: K8709.TI
/18/93 2:41:00
mple: AS053082 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
15	C050	1,1-DICHLOROETHANE
16	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
41	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

Edit
12/18/93
RTE w/A

No	Name
48	C246 M,P-XYLENE
7	C247 O-XYLENE
0	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	899	12:54	1	1.000	A BB	38804.	250.000 NG	16.44
2	114	1034	14:51	2	1.000	A BB	149345.	250.000 NG	16.44
3	117	1369	19:39	3	1.000	A BB	134315.	250.000 NG	16.44
4	65	978	14:02	1	1.088	A BB	84550.	264.406 NG	17.39
5	98	1209	17:21	3	0.883	A BB	140459.	241.686 NG	15.90
6	95	1495	21:28	3	1.092	A BB	125416.	251.933 NG	16.57
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
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42	NOT FOUND								
43	NOT FOUND								
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
~~50~~	~~146~~	~~1615~~	~~23:11~~	~~3~~	~~1.180~~	~~A BV~~	~~901.~~	1.766 NG	0.12

12/18/93

MTM 12/20/93 NJA REQUIRED

Quantitation Report File: K8709

Data: K8709.TI
/18/93 2:41:00
mple: AS053082 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
~~51~~	~~146~~	~~1624~~	~~23:19~~	~~3~~	~~1.186~~	~~A VB~~	~~3539.~~	~~6.089 NG~~	~~0.40~~
~~52~~	~~146~~	~~1665~~	~~23:54~~	~~3~~	~~1.216~~	~~A BB~~	~~2632.~~	~~5.013 NG~~	~~0.33~~

NC

NOT 200-

12/18/93 JJ

Quantitation Report File: K8709

Data: K8709.TI
/18/93 2:41:00
mple: AS053082 JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name
1	CI01 BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10 1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20 D5-CHLOROBENZENE *INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	899	12:54	1	1.000	A BB	308314.	250.000 NG	33.33
2	TOT	1034	14:51	2	1.000	A BB	389223.	250.000 NG	33.33
3	TOT	1369	19:39	3	1.000	A BB	442293.	250.000 NG	33.33

STANDARDS DATA

6A

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Instrument ID: I50K Calibration Date(s): 11/15/93 11/15/93

Heated Purge: (Y/N): N Calibration Times: 1544 1834

GC Column: DB-624 ID: 0.530 (mm)

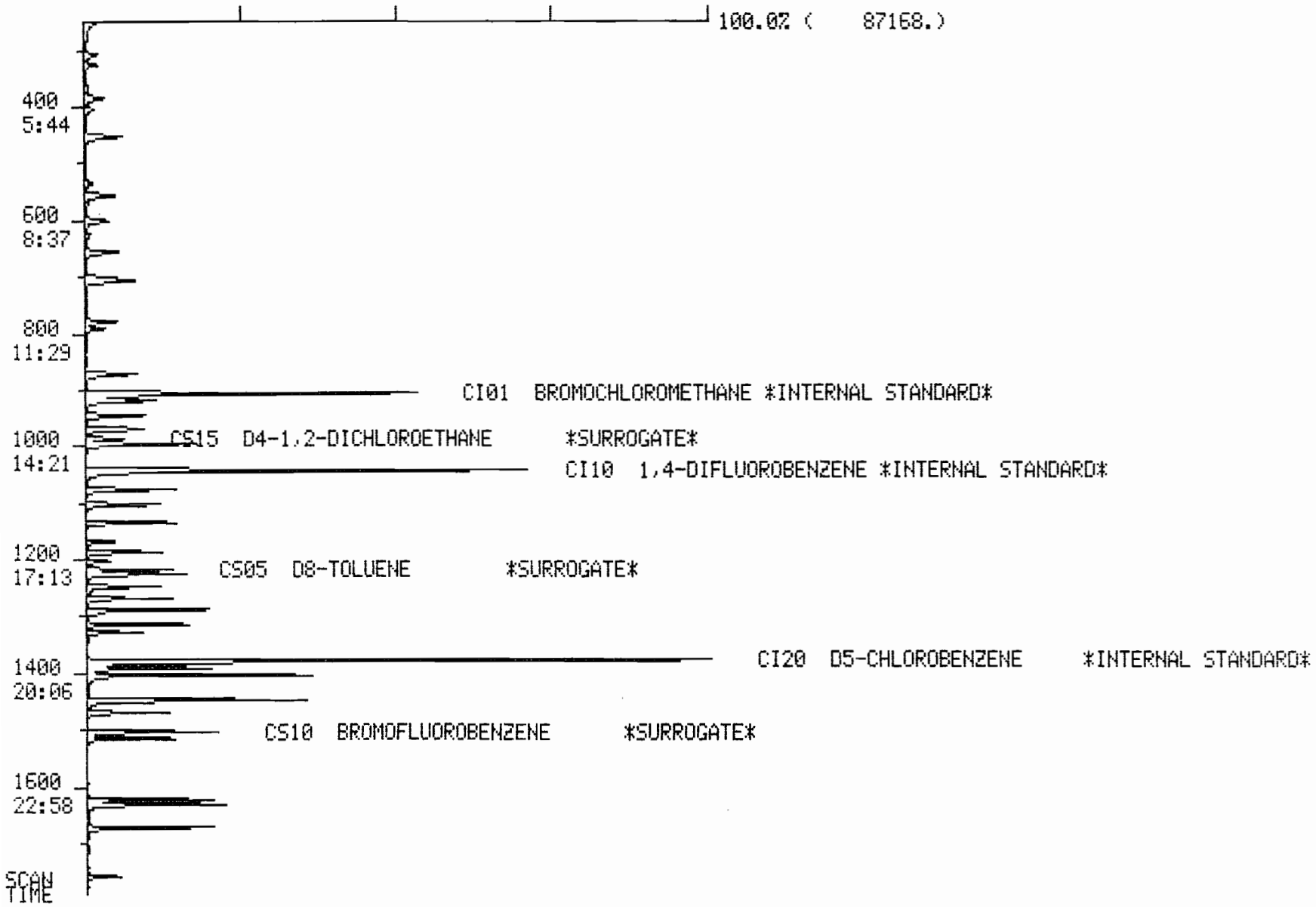
LAB FILE ID: RRF10 = K8104 RRF20 = K8105
RRF50= K8103 RRF100= K8106 RRF200= K8108

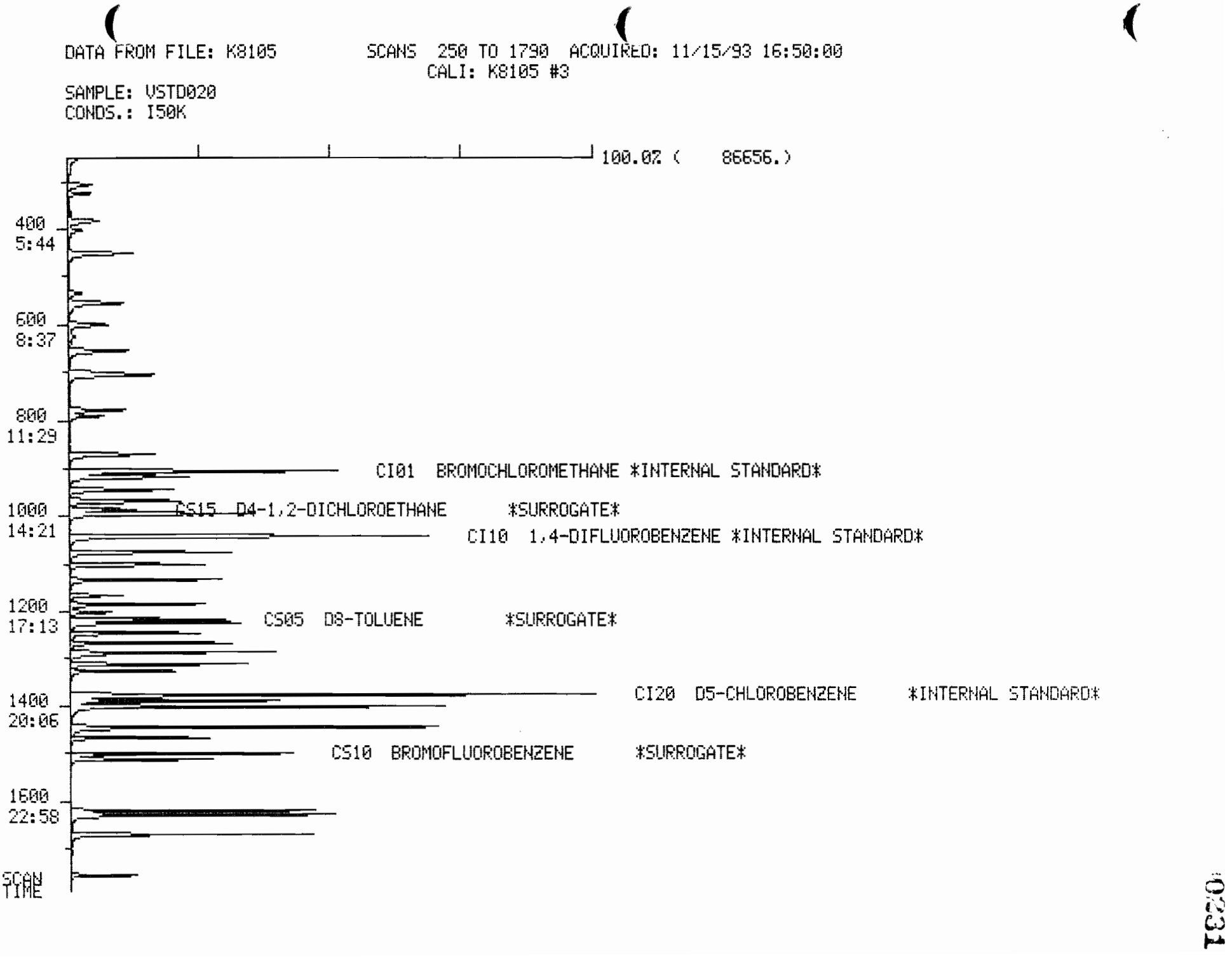
COMPOUND	RRF10	RRF20	RRF50	RRF100	RRF200	$\overline{RRF}$	% RSD
Chloromethane	1.216	1.420	1.609	1.522	1.524	1.458	10.4
Bromomethane *	1.057	1.202	1.089	1.109	1.006	1.093	6.6*
Vinyl Chloride *	0.934	1.074	1.223	1.206	1.176	1.123	10.7*
Chloroethane	0.670	0.819	0.762	0.748	0.592	0.718	12.3
Methylene Chloride	1.112	1.245	1.266	1.249	1.156	1.206	5.6
Acetone	0.206	0.269	0.305	0.285	0.262	0.265	14.0
Carbon Disulfide	2.863	2.985	3.309	3.344	3.176	3.135	6.6
1,1-Dichloroethene *	0.914	1.077	1.126	1.103	1.040	1.052	7.9*
1,1-Dichloroethane *	2.469	2.718	2.905	2.863	2.811	2.753	6.3*
2-Dichloroethene (total)	1.194	1.284	1.408	1.441	1.338	1.333	7.4
loroform *	3.067	3.368	3.644	3.549	3.344	3.394	6.5*
1,2-Dichloroethane *	2.297	2.420	2.498	2.593	2.372	2.436	4.7*
2-Butanone	0.376	0.417	0.489	0.489	0.510	0.456	12.5
1,1,1-Trichloroethane *	0.732	0.749	0.810	0.818	0.760	0.774	4.9*
Carbon Tetrachloride *	0.629	0.731	0.788	0.765	0.719	0.726	8.4*
Bromodichloromethane *	0.861	0.883	0.975	0.994	0.932	0.929	6.2*
1,2-Dichloropropane	0.392	0.429	0.456	0.438	0.432	0.429	5.5
cis-1,3-dichloropropene *	0.587	0.622	0.686	0.719	0.701	0.663	8.5*
Trichloroethene *	0.436	0.485	0.518	0.479	0.446	0.473	6.9*
Dibromochloromethane *	0.776	0.803	0.859	0.861	0.775	0.815	5.2*
1,1,2-Trichloroethane *	0.382	0.416	0.438	0.413	0.391	0.408	5.4*
Benzene *	0.889	0.905	0.907	0.891	0.833	0.885	3.4*
trans-1,3-dichloropropene *	0.555	0.564	0.649	0.689	0.669	0.625	9.9*
Bromoform *	0.535	0.569	0.612	0.614	0.551	0.576	6.2*
4-Methyl-2-Pentanone	0.344	0.356	0.403	0.419	0.453	0.395	11.4
2-Hexanone	0.249	0.229	0.259	0.278	0.300	0.263	10.4
Tetrachloroethene *	0.464	0.467	0.473	0.454	0.408	0.453	5.8*
1,1,2,2-Tetrachloroethane *	0.701	0.711	0.757	0.768	0.738	0.735	3.9*
Toluene *	1.078	1.110	1.156	1.160	1.150	1.131	3.2*
Chlorobenzene *	0.914	0.960	1.021	0.967	0.935	0.959	4.2*
Ethylbenzene *	0.373	0.378	0.396	0.394	0.377	0.384	2.8*
Styrene *	0.858	0.862	0.911	0.896	0.841	0.874	3.3*
Total Xylenes *	0.529	0.534	0.535	0.510	0.485	0.519	4.1*
luene-d8	0.927	0.943	1.040	1.021	0.986	0.983	4.9
omofluorobenzene *	0.816	0.830	0.930	0.879	0.839	0.859	5.4*
1,2-Dichloroethane-d4	1.798	1.955	2.017	1.996	1.870	1.927	4.8

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.

DATA FROM FILE: K8104 SCANS 250 TO 1790 ACQUIRED: 11/15/93 16:16:00
CALI: K8104 #3

SAMPLE: VSTD010
CONDS.: I50K

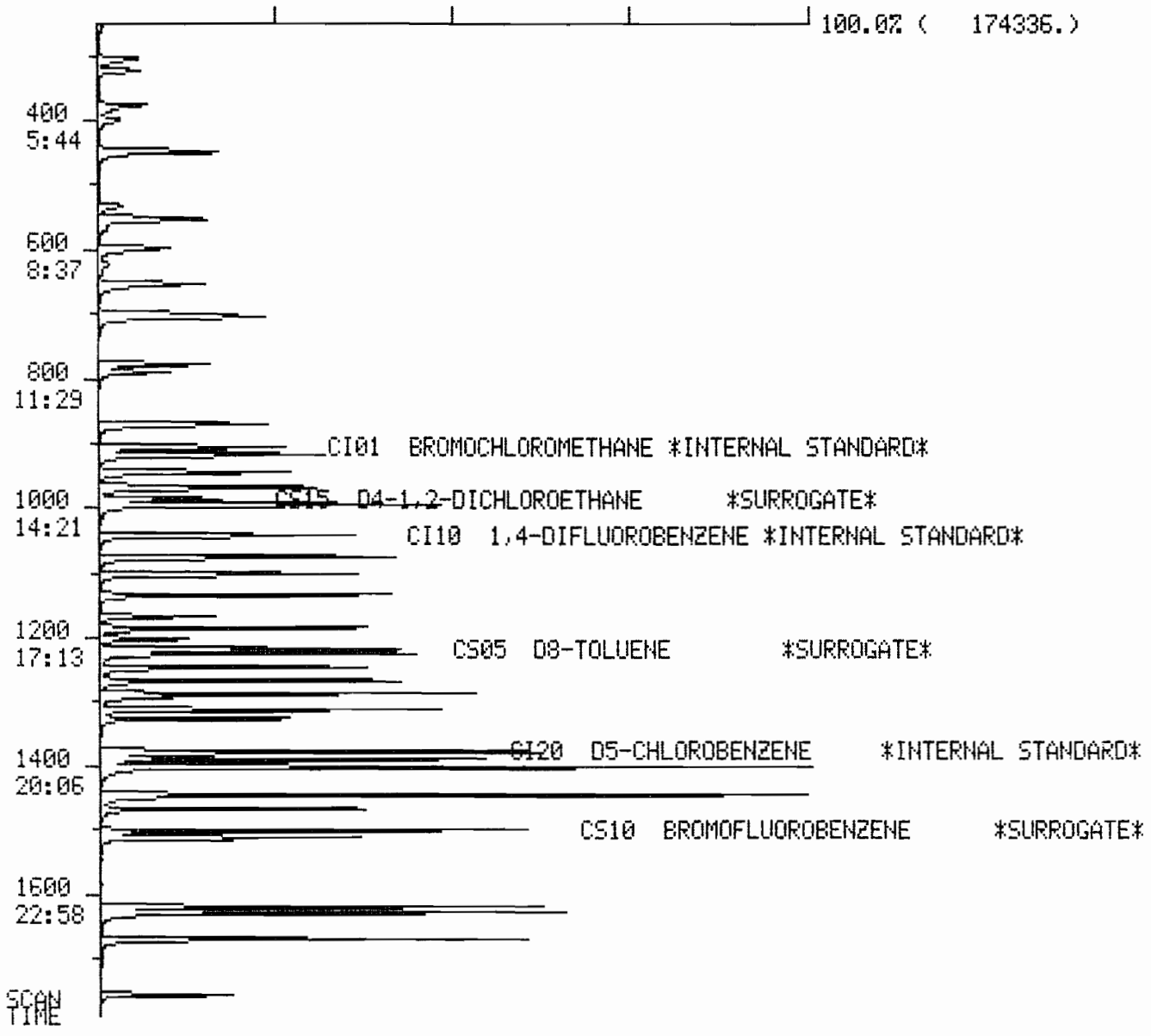



DATA FROM FILE: K8105
SCANS 250 TO 1790 ACQUIRED: 11/15/93 16:50:00
CALI: K8105 #3
SAMPLE: VSTD020
CONDS.: I50K
100.0% (86656.)
400
5:44
600
8:37
800
11:29
CI01 BROMOCHLOROMETHANE *INTERNAL STANDARD*
1000
14:21
CS15 D4-1,2-DICHLOROETHANE *SURROGATE*
CI10 1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
1200
17:13
CS05 D8-TOLUENE *SURROGATE*
1400
20:06
CI20 D5-CHLOROBENZENE *INTERNAL STANDARD*
CS10 BROMOFLUOROBENZENE *SURROGATE*
1600
22:58
SCAN
TIME

0231

DATA FROM FILE: K8103 SCANS 250 TO 1790 ACQUIRED: 11/15/93 15:44:00
CALI: K8103 #3

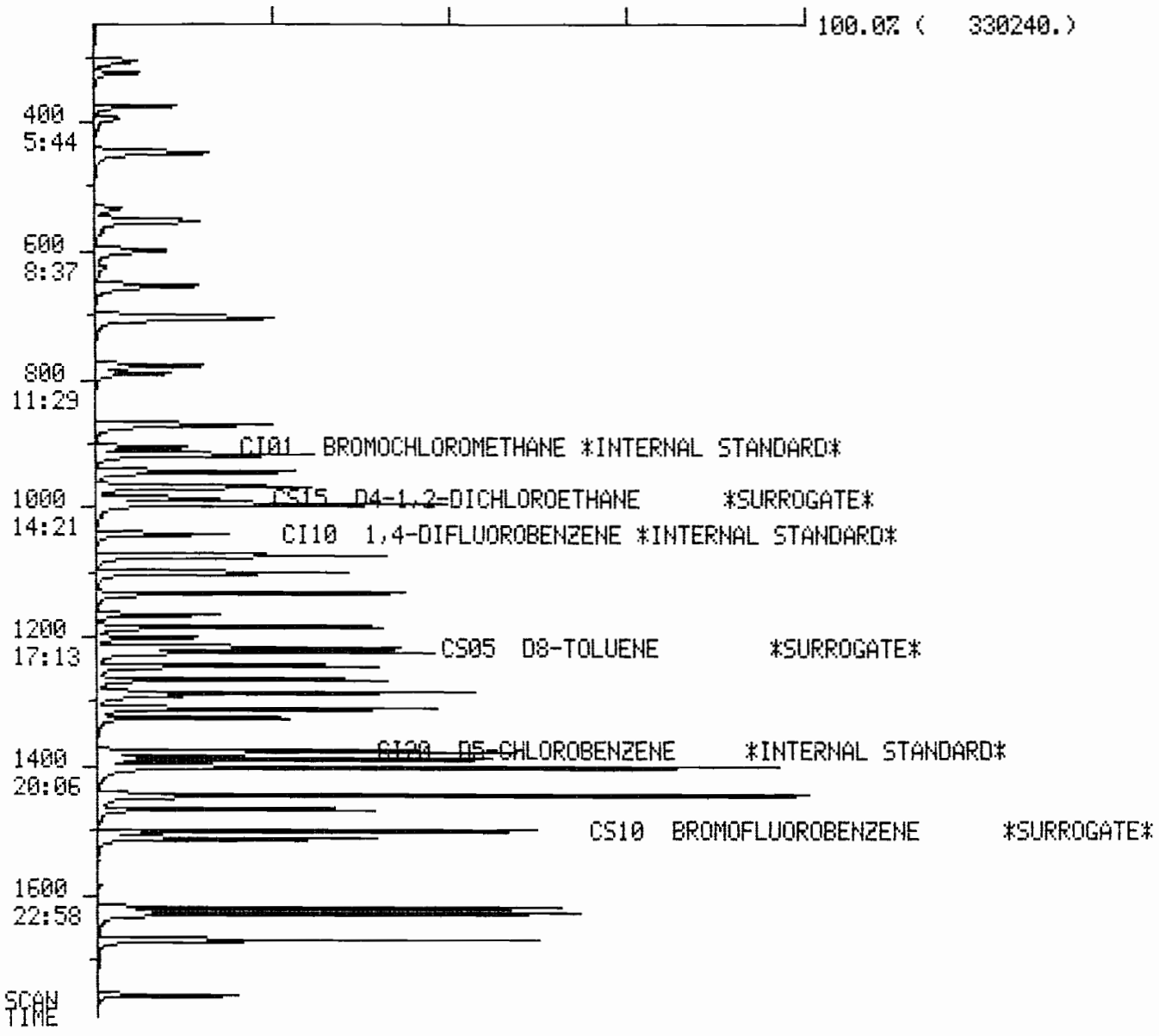
SAMPLE: VSTD050
CONDS.: I50K



2320

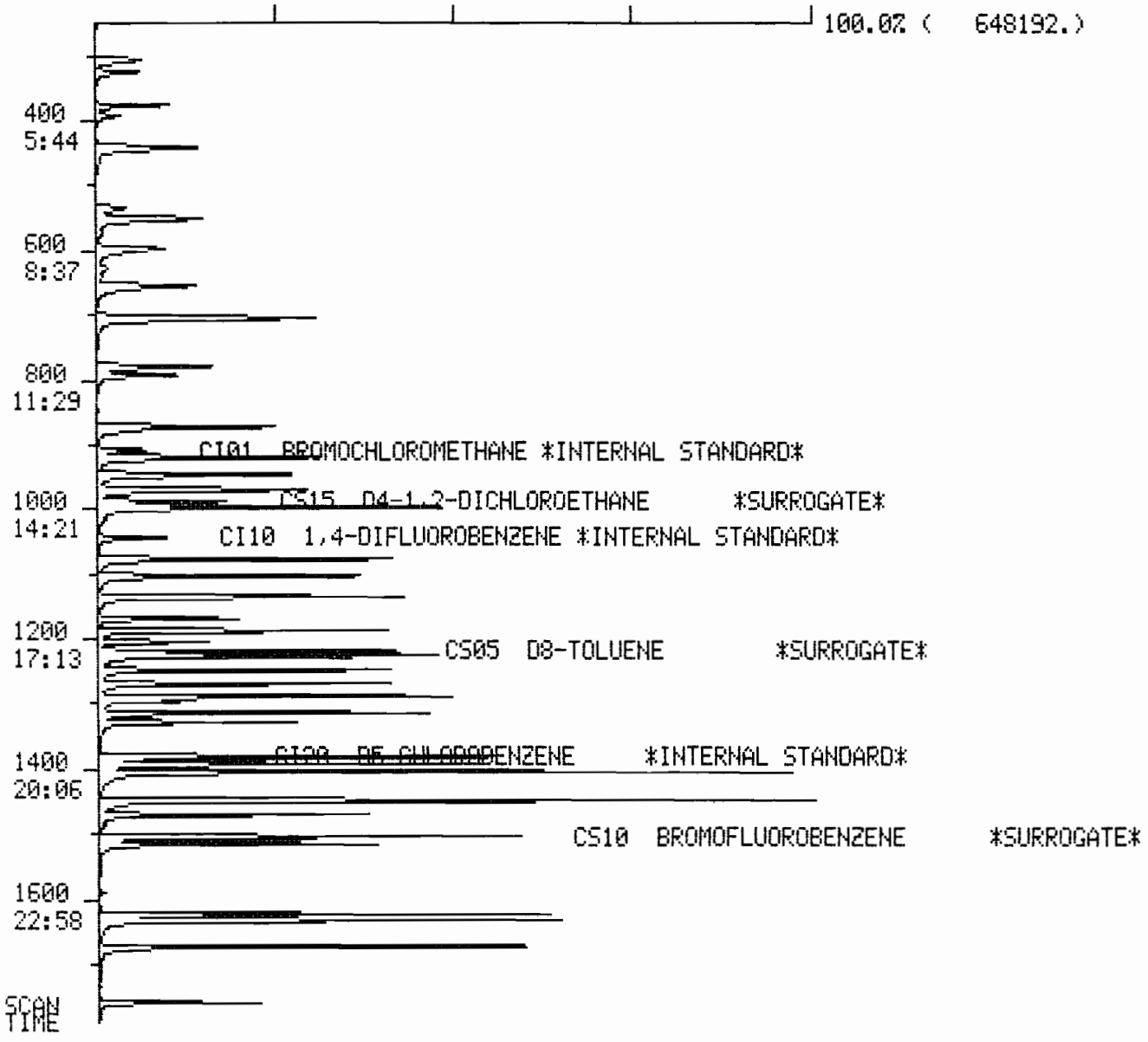
DATA FROM FILE: K8106 SCANS 250 TO 1790 ACQUIRED: 11/15/93 17:25:00
CALI: K8106 #3

SAMPLE: VSTD100
CONDS.: I50K



DATA FROM FILE: K8108 SCANS 250 TO 1790 ACQUIRED: 11/15/93 18:34:00
CALI: K8108 #3

SAMPLE: VSTD200
CONDS.: I50K



2220.

Quantitation Report File: K8104

Data: K8104.TI
[illegible]5/93 16:16:00
Sample: VSTD010
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: JB Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
[illegible]	C050	1,1-DICHLOROETHANE
	C057	TRANS-1,2-DICHLOROETHENE
[illegible]	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
	C215	2-HEXANONE
[illegible]	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

No	Name
[illegible]	C246 M,P-XYLENE
[illegible]	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	904	12:59	1	1.000	A BB	30152.	250.000 NG	6.10
2	114	1040	14:56	2	1.000	A BB	111319.	250.000 NG	6.10
3	117	1375	19:44	3	1.000	A BB	100643.	250.000 NG	6.10
4	65	984	14:07	1	1.088	A BB	10841.	50.000 NG	1.22
5	98	1216	17:27	3	0.884	A BB	18667.	50.000 NG	1.22
6	95	1501	21:33	3	1.092	A BV	16427.	50.000 NG	1.22
7	50	305	4:23	1	0.337	A BB	7330.	50.000 NG	1.22
8	94	382	5:29	1	0.423	A BB	6373.	50.000 NG	1.22
9	62	323	4:38	1	0.357	A BB	5632.	50.000 NG	1.22
10	64	401	5:45	1	0.444	A BB	4040.	50.000 NG	1.22
11	84	652	9:22	1	0.721	A BB	6703.	50.000 NG	1.22
12	43	568	8:09	1	0.628	A BB	1241.	50.000 NG	1.22
13	76	597	8:34	1	0.660	A BB	17263.	50.000 NG	1.22
14	96	553	7:56	1	0.612	A BB	5513.	50.000 NG	1.22
15	63	776	11:08	1	0.858	A BB	14887.	50.000 NG	1.22
16	96	704	10:06	1	0.779	A BB	6751.	50.000 NG	1.22
17	83	916	13:09	1	1.013	A BB	18496.	50.000 NG	1.22
18	62	994	14:16	1	1.100	A BB	13851.	50.000 NG	1.22
19	43	875	12:34	1	0.968	A BB	2266.	50.000 NG	1.22
20	97	943	13:32	2	0.907	A BB	16301.	50.000 NG	1.22
[illegible]	117	966	13:52	2	0.929	A BB	14006.	50.000 NG	1.22
[illegible]	43	789	11:20	2	0.759	A BB	14434.	50.000 NG	1.22
[illegible]	83	1132	16:15	2	1.088	A BB	19166.	50.000 NG	1.22
24	96	869	12:28	1	0.961	A BB	7650.	50.000 NG	1.22
25	56	533	7:39	1	0.590	A BB	2971.	400.000 NG	9.76
26	53	698	10:01	1	0.772	A BB	11122.	400.000 NG	9.76
27	101	450	6:28	1	0.498	A BB	16473.	50.000 NG	1.22
28	41	622	8:56	1	0.688	A BB	1812.	200.000 NG	4.88
29	63	1100	15:47	2	1.058	A BB	8727.	50.000 NG	1.22
30	75	1184	17:00	2	1.138	A BB	13074.	50.000 NG	1.22
31	130	1074	15:25	2	1.033	A BB	9697.	50.000 NG	1.22
32	129	1311	18:49	2	1.261	A BV	17271.	50.000 NG	1.22
33	97	1266	18:10	2	1.217	A BB	8497.	50.000 NG	1.22
34	78	993	14:15	2	0.955	A BB	19800.	50.000 NG	1.22
35	75	1245	17:52	2	1.197	A BB	12360.	50.000 NG	1.22
36	173	1467	21:03	2	1.411	A BB	11912.	50.000 NG	1.22
37	63	1165	16:43	2	1.120	A BB	4097.	50.000 NG	1.22
38	109	1325	19:01	2	1.274	A BB	12918.	50.000 NG	1.22
39	157	1756	25:12	2	1.688	A BB	3290.	50.000 NG	1.22
40	43	1200	17:13	3	0.873	A BV	6918.	50.000 NG	1.22
41	43	1292	18:33	3	0.940	A BB	5007.	50.000 NG	1.22
42	164	1285	18:27	3	0.935	A BB	9340.	50.000 NG	1.22
43	83	1512	21:42	3	1.100	A BB	14108.	50.000 NG	1.22
44	91	1223	17:33	3	0.889	A BB	21690.	50.000 NG	1.22
45	112	1378	19:47	3	1.002	A BB	18401.	50.000 NG	1.22
46	106	1389	19:56	3	1.010	A BB	7515.	50.000 NG	1.22
[illegible]	104	1445	20:45	3	1.051	A BB	17275.	50.000 NG	1.22
[illegible]	106	1401	20:07	3	1.019	A VB	21090.	100.000 NG	2.44
49	106	1444	20:44	3	1.050	A BB	10650.	50.000 NG	1.22
50	146	1619	23:14	3	1.177	A BV	16571.	50.000 NG	1.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
[illegible]	12:59	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
[illegible]	14:56	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
[illegible]	19:44	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
4	14:07	1.00	1.088	1.00	50.00	50.00	1.798	1.798	1.00
5	17:27	1.00	0.884	1.00	50.00	50.00	0.927	0.927	1.00
6	21:33	1.00	1.092	1.00	50.00	50.00	0.816	0.816	1.00
7	4:23	1.00	0.337	1.00	50.00	50.00	1.216	1.216	1.00
8	5:29	1.00	0.423	1.00	50.00	50.00	1.057	1.057	1.00
9	4:38	1.00	0.357	1.00	50.00	50.00	0.934	0.934	1.00
10	5:45	1.00	0.444	1.00	50.00	50.00	0.670	0.670	1.00
11	9:22	1.00	0.721	1.00	50.00	50.00	1.112	1.112	1.00
12	8:09	1.00	0.628	1.00	50.00	50.00	0.206	0.206	1.00
13	8:34	1.00	0.660	1.00	50.00	50.00	2.863	2.863	1.00
14	7:56	1.00	0.612	1.00	50.00	50.00	0.914	0.914	1.00
15	11:08	1.00	0.858	1.00	50.00	50.00	2.469	2.469	1.00
16	10:06	1.00	0.779	1.00	50.00	50.00	1.119	1.119	1.00
17	13:09	1.00	1.013	1.00	50.00	50.00	3.067	3.067	1.00
18	14:16	1.00	1.100	1.00	50.00	50.00	2.297	2.297	1.00
19	12:34	1.00	0.968	1.00	50.00	50.00	0.376	0.376	1.00
20	13:32	1.00	0.907	1.00	50.00	50.00	0.732	0.732	1.00
21	13:52	1.00	0.929	1.00	50.00	50.00	0.629	0.629	1.00
22	11:20	1.00	0.759	1.00	50.00	50.00	0.648	0.648	1.00
23	16:15	1.00	1.088	1.00	50.00	50.00	0.861	0.861	1.00
24	12:28	1.00	0.961	1.00	50.00	50.00	1.269	1.269	1.00
25	7:39	1.00	0.590	1.00	400.00	400.00	0.062	0.062	1.00
[illegible]	10:01	1.00	0.772	1.00	400.00	400.00	0.231	0.231	1.00
[illegible]	6:28	1.00	0.498	1.00	50.00	50.00	2.732	2.732	1.00
[illegible]	8:56	1.00	0.688	1.00	200.00	200.00	0.075	0.075	1.00
29	15:47	1.00	1.058	1.00	50.00	50.00	0.392	0.392	1.00
30	17:00	1.00	1.138	1.00	50.00	50.00	0.587	0.587	1.00
31	15:25	1.00	1.033	1.00	50.00	50.00	0.436	0.436	1.00
32	18:49	1.00	1.261	1.00	50.00	50.00	0.776	0.776	1.00
33	18:10	1.00	1.217	1.00	50.00	50.00	0.382	0.382	1.00
34	14:15	1.00	0.955	1.00	50.00	50.00	0.889	0.889	1.00
35	17:52	1.00	1.197	1.00	50.00	50.00	0.555	0.555	1.00
36	21:03	1.00	1.411	1.00	50.00	50.00	0.535	0.535	1.00
37	16:43	1.00	1.120	1.00	50.00	50.00	0.184	0.184	1.00
38	19:01	1.00	1.274	1.00	50.00	50.00	0.580	0.580	1.00
39	25:12	1.00	1.688	1.00	50.00	50.00	0.148	0.148	1.00
40	17:13	1.00	0.873	1.00	50.00	50.00	0.344	0.344	1.00
41	18:33	1.00	0.940	1.00	50.00	50.00	0.249	0.249	1.00
42	18:27	1.00	0.935	1.00	50.00	50.00	0.464	0.464	1.00
43	21:42	1.00	1.100	1.00	50.00	50.00	0.701	0.701	1.00
44	17:33	1.00	0.889	1.00	50.00	50.00	1.078	1.078	1.00
45	19:47	1.00	1.002	1.00	50.00	50.00	0.914	0.914	1.00
46	19:56	1.00	1.010	1.00	50.00	50.00	0.373	0.373	1.00
47	20:45	1.00	1.051	1.00	50.00	50.00	0.858	0.858	1.00
48	20:07	1.00	1.019	1.00	100.00	100.00	0.524	0.524	1.00
49	20:44	1.00	1.050	1.00	50.00	50.00	0.529	0.529	1.00
50	23:14	1.00	1.177	1.00	50.00	50.00	0.823	0.823	1.00

Quantitation Report File: K8104

Da : K8104.TI
1[illegible]/93 16:16:00
Sample: VSTD010
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: JB Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	146	1628	23:22	3	1.184	A VB	18239.	50.000 NG	1.22
52	146	1669	23:57	3	1.214	A BB	18719.	50.000 NG	1.22

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	23:22	1.00	1.184	1.00	50.00	50.00	0.906	0.906	1.00
52	23:57	1.00	1.214	1.00	50.00	50.00	0.930	0.930	1.00

Quantitation Report File: K8105

Data: K8105.TI
Date: 5/93 16:50:00
Sample: VSTD020
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: JB Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
15	C050	1,1-DICHLOROETHANE
	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
	C215	2-HEXANONE
	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

No	Name
[illegible]	C246 M,P-XYLENE
[illegible]	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	903	12:58	1	1.000	A BB	28404.	250.000 NG	3.36
2	114	1039	14:55	2	1.000	A BB	107140.	250.000 NG	3.36
3	117	1374	19:43	3	1.000	A BB	96940.	250.000 NG	3.36
4	65	983	14:07	1	1.089	A BB	22216.	100.000 NG	1.34
5	98	1214	17:26	3	0.884	A BB	36584.	100.000 NG	1.34
6	95	1499	21:31	3	1.091	A BV	32169.	100.000 NG	1.34
7	50	304	4:22	1	0.337	A BV	16131.	100.000 NG	1.34
8	94	380	5:27	1	0.421	A BB	13655.	100.000 NG	1.34
9	62	322	4:37	1	0.357	A BB	12199.	100.000 NG	1.34
10	64	400	5:44	1	0.443	A BB	9302.	100.000 NG	1.34
11	84	652	9:22	1	0.722	A BB	14140.	100.000 NG	1.34
12	43	567	8:08	1	0.628	A BB	3054.	100.000 NG	1.34
13	76	597	8:34	1	0.661	A BB	33918.	100.000 NG	1.34
14	96	552	7:55	1	0.611	A BB	12232.	100.000 NG	1.34
15	63	776	11:08	1	0.859	A BB	30876.	100.000 NG	1.34
16	96	703	10:05	1	0.779	A BB	13315.	100.000 NG	1.34
17	83	915	13:08	1	1.013	A BB	38269.	100.000 NG	1.34
18	62	993	14:15	1	1.100	A BB	27494.	100.000 NG	1.34
19	43	874	12:33	1	0.968	A BB	4738.	100.000 NG	1.34
20	97	942	13:31	2	0.907	A BB	32101.	100.000 NG	1.34
21	117	965	13:51	2	0.929	A BB	31313.	100.000 NG	1.34
[illegible]	43	788	11:19	2	0.758	A BB	27645.	100.000 NG	1.34
23	83	1130	16:13	2	1.088	A BB	37823.	100.000 NG	1.34
24	96	869	12:28	1	0.962	A BB	15851.	100.000 NG	1.34
25	56	532	7:38	1	0.589	A BB	6783.	800.000 NG	10.74
26	53	697	10:00	1	0.772	A BB	23183.	800.000 NG	10.74
27	101	449	6:27	1	0.497	A BB	32192.	100.000 NG	1.34
28	41	622	8:56	1	0.689	A BB	4147.	400.000 NG	5.37
29	63	1099	15:47	2	1.058	A BB	18386.	100.000 NG	1.34
30	75	1182	16:58	2	1.138	A BB	26670.	100.000 NG	1.34
31	130	1073	15:24	2	1.033	A BB	20796.	100.000 NG	1.34
32	129	1309	18:47	2	1.260	A BB	34410.	100.000 NG	1.34
33	97	1264	18:09	2	1.217	A BB	17840.	100.000 NG	1.34
34	78	992	14:14	2	0.955	A BB	38803.	100.000 NG	1.34
35	75	1243	17:51	2	1.196	A BB	24171.	100.000 NG	1.34
36	173	1465	21:02	2	1.410	A BB	24369.	100.000 NG	1.34
37	63	1164	16:42	2	1.120	A BB	8756.	100.000 NG	1.34
38	109	1324	19:00	2	1.274	A BB	28031.	100.000 NG	1.34
39	157	1755	25:11	2	1.689	A BB	7186.	100.000 NG	1.34
40	43	1199	17:13	3	0.873	A BV	13807.	100.000 NG	1.34
41	43	1290	18:31	3	0.939	A BB	8868.	100.000 NG	1.34
42	164	1284	18:26	3	0.934	A BB	18114.	100.000 NG	1.34
43	83	1510	21:40	3	1.099	A BB	27572.	100.000 NG	1.34
44	91	1222	17:32	3	0.889	A BB	43028.	100.000 NG	1.34
45	112	1377	19:46	3	1.002	A BB	37210.	100.000 NG	1.34
46	106	1387	19:55	3	1.009	A BB	14671.	100.000 NG	1.34
[illegible]	104	1444	20:44	3	1.051	A BB	33436.	100.000 NG	1.34
[illegible]	106	1399	20:05	3	1.018	A VB	39075.	200.000 NG	2.68
49	106	1443	20:43	3	1.050	A BB	20721.	100.000 NG	1.34
50	146	1618	23:14	3	1.178	A BV	35865.	100.000 NG	1.34

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
	12:59	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
	14:56	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
3	19:44	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
4	14:07	1.00	1.088	1.00	100.00	100.00	1.955	1.955	1.00
5	17:27	1.00	0.884	1.00	100.00	100.00	0.943	0.943	1.00
6	21:33	1.00	1.092	1.00	100.00	100.00	0.830	0.830	1.00
7	4:23	1.00	0.337	1.00	100.00	100.00	1.420	1.420	1.00
8	5:29	0.99	0.423	1.00	100.00	100.00	1.202	1.202	1.00
9	4:38	1.00	0.357	1.00	100.00	100.00	1.074	1.074	1.00
10	5:45	1.00	0.444	1.00	100.00	100.00	0.819	0.819	1.00
11	9:22	1.00	0.721	1.00	100.00	100.00	1.245	1.245	1.00
12	8:09	1.00	0.628	1.00	100.00	100.00	0.269	0.269	1.00
13	8:34	1.00	0.660	1.00	100.00	100.00	2.985	2.985	1.00
14	7:56	1.00	0.612	1.00	100.00	100.00	1.077	1.077	1.00
15	11:08	1.00	0.858	1.00	100.00	100.00	2.718	2.718	1.00
16	10:06	1.00	0.779	1.00	100.00	100.00	1.172	1.172	1.00
17	13:09	1.00	1.013	1.00	100.00	100.00	3.368	3.368	1.00
18	14:16	1.00	1.100	1.00	100.00	100.00	2.420	2.420	1.00
19	12:34	1.00	0.968	1.00	100.00	100.00	0.417	0.417	1.00
20	13:32	1.00	0.907	1.00	100.00	100.00	0.749	0.749	1.00
21	13:52	1.00	0.929	1.00	100.00	100.00	0.731	0.731	1.00
22	11:20	1.00	0.759	1.00	100.00	100.00	0.645	0.645	1.00
23	16:15	1.00	1.088	1.00	100.00	100.00	0.883	0.883	1.00
24	12:28	1.00	0.961	1.00	100.00	100.00	1.395	1.395	1.00
25	7:39	1.00	0.590	1.00	800.00	800.00	0.075	0.075	1.00
2[illegible]	10:01	1.00	0.772	1.00	800.00	800.00	0.255	0.255	1.00
	6:28	1.00	0.498	1.00	100.00	100.00	2.833	2.833	1.00
28	8:56	1.00	0.688	1.00	400.00	400.00	0.091	0.091	1.00
29	15:47	1.00	1.058	1.00	100.00	100.00	0.429	0.429	1.00
30	17:00	1.00	1.138	1.00	100.00	100.00	0.622	0.622	1.00
31	15:25	1.00	1.033	1.00	100.00	100.00	0.485	0.485	1.00
32	18:49	1.00	1.261	1.00	100.00	100.00	0.803	0.803	1.00
33	18:10	1.00	1.217	1.00	100.00	100.00	0.416	0.416	1.00
34	14:15	1.00	0.955	1.00	100.00	100.00	0.905	0.905	1.00
35	17:52	1.00	1.197	1.00	100.00	100.00	0.564	0.564	1.00
36	21:03	1.00	1.411	1.00	100.00	100.00	0.569	0.569	1.00
37	16:43	1.00	1.120	1.00	100.00	100.00	0.204	0.204	1.00
38	19:01	1.00	1.274	1.00	100.00	100.00	0.654	0.654	1.00
39	25:12	1.00	1.688	1.00	100.00	100.00	0.168	0.168	1.00
40	17:13	1.00	0.873	1.00	100.00	100.00	0.356	0.356	1.00
41	18:33	1.00	0.940	1.00	100.00	100.00	0.229	0.229	1.00
42	18:27	1.00	0.935	1.00	100.00	100.00	0.467	0.467	1.00
43	21:42	1.00	1.100	1.00	100.00	100.00	0.711	0.711	1.00
44	17:33	1.00	0.889	1.00	100.00	100.00	1.110	1.110	1.00
45	19:47	1.00	1.002	1.00	100.00	100.00	0.960	0.960	1.00
46	19:56	1.00	1.010	1.00	100.00	100.00	0.378	0.378	1.00
47	20:45	1.00	1.051	1.00	100.00	100.00	0.862	0.862	1.00
48	20:07	1.00	1.019	1.00	200.00	200.00	0.504	0.504	1.00
49	20:44	1.00	1.050	1.00	100.00	100.00	0.534	0.534	1.00
50	23:14	1.00	1.177	1.00	100.00	100.00	0.925	0.925	1.00

Quantitation Report File: K8105

Data: K8105.TI
1[illegible]5/93 16:50:00
Sample: VSTD020
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: JB Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	146	1627	23:21	3	1.184	A VB	39086.	100.000 NG	1.34
52	146	1668	23:57	3	1.214	A BB	36144.	100.000 NG	1.34

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	23:22	1.00	1.184	1.00	100.00	100.00	1.008	1.008	1.00
52	23:57	1.00	1.214	1.00	100.00	100.00	0.932	0.932	1.00

Quantitation Report File: K8103 0043

Data: K8103.TI
15/93 15:44:00
Sample: VSTD050
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: JB Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
15	C050	1,1-DICHLOROETHANE
	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

No	Name
48	C246 M,P-XYLENE
	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	902	12:57	1	1.000	A BB	29384.	250.000 NG	1.43
2	114	1039	14:55	2	1.000	A BB	110846.	250.000 NG	1.43
3	117	1373	19:42	3	1.000	A BB	100162.	250.000 NG	1.43
4	65	983	14:07	1	1.090	A BB	59277.	250.000 NG	1.43
5	98	1214	17:26	3	0.884	A BB	104208.	250.000 NG	1.43
6	95	1498	21:30	3	1.091	A BV	93115.	250.000 NG	1.43
7	50	302	4:20	1	0.335	A BB	47273.	250.000 NG	1.43
8	94	373	5:21	1	0.414	A BB	31998.	250.000 NG	1.43
9	62	320	4:36	1	0.355	A BB	35946.	250.000 NG	1.43
10	64	396	5:41	1	0.439	A BB	22391.	250.000 NG	1.43
11	84	650	9:20	1	0.721	A BB	37205.	250.000 NG	1.43
12	43	565	8:07	1	0.626	A BB	8954.	250.000 NG	1.43
13	76	595	8:32	1	0.660	A BB	97236.	250.000 NG	1.43
14	96	550	7:54	1	0.610	A BB	33094.	250.001 NG	1.43
15	63	775	11:07	1	0.859	A BB	85370.	250.000 NG	1.43
16	96	702	10:05	1	0.778	A BB	37307.	250.000 NG	1.43
17	83	915	13:08	1	1.014	A BB	107086.	250.000 NG	1.43
18	62	993	14:15	1	1.101	A BB	73407.	250.000 NG	1.43
19	43	873	12:32	1	0.968	A BB	14380.	250.000 NG	1.43
20	97	942	13:31	2	0.907	A BB	89781.	250.000 NG	1.43
21	117	965	13:51	2	0.929	A BB	87380.	250.000 NG	1.43
	43	787	11:18	2	0.757	A BB	84635.	250.000 NG	1.43
23	83	1131	16:14	2	1.089	A BB	108032.	250.000 NG	1.43
24	96	868	12:28	1	0.962	A BB	45392.	250.000 NG	1.43
25	56	530	7:36	1	0.588	A BB	19813.	2000.000 NG	11.43
26	53	696	9:59	1	0.772	A BB	62982.	2000.000 NG	11.43
27	101	446	6:24	1	0.494	A BB	92579.	250.000 NG	1.43
28	41	620	8:54	1	0.687	A BB	10948.	1000.000 NG	5.71
29	63	1099	15:47	2	1.058	A BB	50528.	250.000 NG	1.43
30	75	1182	16:58	2	1.138	A BB	76012.	250.000 NG	1.43
31	130	1072	15:23	2	1.032	A BB	57400.	250.000 NG	1.43
32	129	1309	18:47	2	1.260	A BB	95270.	250.000 NG	1.43
33	97	1264	18:09	2	1.217	A BB	48550.	250.000 NG	1.43
34	78	992	14:14	2	0.955	A BB	100542.	250.000 NG	1.43
35	75	1243	17:51	2	1.196	A BB	71974.	250.000 NG	1.43
36	173	1465	21:02	2	1.410	A BB	67807.	250.000 NG	1.43
37	63	1164	16:42	2	1.120	A BB	26295.	250.000 NG	1.43
38	109	1323	18:59	2	1.273	A BB	71644.	250.000 NG	1.43
39	157	1754	25:11	2	1.688	A BB	21664.	250.000 NG	1.43
40	43	1199	17:13	3	0.873	A BV	40324.	250.000 NG	1.43
41	43	1290	18:31	3	0.940	A BB	25941.	250.000 NG	1.43
42	164	1284	18:26	3	0.935	A BB	47380.	250.000 NG	1.43
43	83	1510	21:40	3	1.100	A BB	75785.	250.000 NG	1.43
44	91	1222	17:32	3	0.890	A BB	115749.	250.000 NG	1.43
45	112	1377	19:46	3	1.003	A BB	102312.	250.000 NG	1.43
46	106	1387	19:55	3	1.010	A BB	39625.	250.000 NG	1.43
47	104	1443	20:43	3	1.051	A BB	91223.	250.000 NG	1.43
48	106	1399	20:05	3	1.019	A VB	106477.	500.000 NG	2.86
49	106	1442	20:42	3	1.050	A BB	53578.	250.000 NG	1.43
50	146	1617	23:13	3	1.178	A BV	93405.	250.000 NG	1.43

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	12:59	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
2	14:56	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
3	19:44	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
4	14:07	1.00	1.088	1.00	250.00	250.00	2.017	2.017	1.00
5	17:27	1.00	0.884	1.00	250.00	250.00	1.040	1.040	1.00
6	21:33	1.00	1.092	1.00	250.00	250.00	0.930	0.930	1.00
7	4:23	0.99	0.337	0.99	250.00	250.00	1.609	1.609	1.00
8	5:29	0.98	0.423	0.98	250.00	250.00	1.089	1.089	1.00
9	4:38	0.99	0.357	0.99	250.00	250.00	1.223	1.223	1.00
10	5:45	0.99	0.444	0.99	250.00	250.00	0.762	0.762	1.00
11	9:22	1.00	0.721	1.00	250.00	250.00	1.266	1.266	1.00
12	8:09	0.99	0.628	1.00	250.00	250.00	0.305	0.305	1.00
13	8:34	1.00	0.660	1.00	250.00	250.00	3.309	3.309	1.00
14	7:56	0.99	0.612	1.00	250.00	250.00	1.126	1.126	1.00
15	11:08	1.00	0.858	1.00	250.00	250.00	2.905	2.905	1.00
16	10:06	1.00	0.779	1.00	250.00	250.00	1.270	1.270	1.00
17	13:09	1.00	1.013	1.00	250.00	250.00	3.644	3.644	1.00
18	14:16	1.00	1.100	1.00	250.00	250.00	2.498	2.498	1.00
19	12:34	1.00	0.968	1.00	250.00	250.00	0.489	0.489	1.00
20	13:32	1.00	0.907	1.00	250.00	250.00	0.810	0.810	1.00
21	13:52	1.00	0.929	1.00	250.00	250.00	0.788	0.788	1.00
22	11:20	1.00	0.759	1.00	250.00	250.00	0.764	0.764	1.00
23	16:15	1.00	1.088	1.00	250.00	250.00	0.975	0.975	1.00
24	12:28	1.00	0.961	1.00	250.00	250.00	1.545	1.545	1.00
25	7:39	0.99	0.590	1.00	2000.00	2000.00	0.084	0.084	1.00
26	10:01	1.00	0.772	1.00	2000.00	2000.00	0.268	0.268	1.00
27	6:28	0.99	0.498	0.99	250.00	250.00	3.151	3.151	1.00
28	8:56	1.00	0.688	1.00	1000.00	1000.00	0.093	0.093	1.00
29	15:47	1.00	1.058	1.00	250.00	250.00	0.456	0.456	1.00
30	17:00	1.00	1.138	1.00	250.00	250.00	0.686	0.686	1.00
31	15:25	1.00	1.033	1.00	250.00	250.00	0.518	0.518	1.00
32	18:49	1.00	1.261	1.00	250.00	250.00	0.859	0.859	1.00
33	18:10	1.00	1.217	1.00	250.00	250.00	0.438	0.438	1.00
34	14:15	1.00	0.955	1.00	250.00	250.00	0.907	0.907	1.00
35	17:52	1.00	1.197	1.00	250.00	250.00	0.649	0.649	1.00
36	21:03	1.00	1.411	1.00	250.00	250.00	0.612	0.612	1.00
37	16:43	1.00	1.120	1.00	250.00	250.00	0.237	0.237	1.00
38	19:01	1.00	1.274	1.00	250.00	250.00	0.646	0.646	1.00
39	25:12	1.00	1.688	1.00	250.00	250.00	0.195	0.195	1.00
40	17:13	1.00	0.873	1.00	250.00	250.00	0.403	0.403	1.00
41	18:33	1.00	0.940	1.00	250.00	250.00	0.259	0.259	1.00
42	18:27	1.00	0.935	1.00	250.00	250.00	0.473	0.473	1.00
43	21:42	1.00	1.100	1.00	250.00	250.00	0.757	0.757	1.00
44	17:33	1.00	0.889	1.00	250.00	250.00	1.156	1.156	1.00
45	19:47	1.00	1.002	1.00	250.00	250.00	1.021	1.021	1.00
46	19:56	1.00	1.010	1.00	250.00	250.00	0.396	0.396	1.00
47	20:45	1.00	1.051	1.00	250.00	250.00	0.911	0.911	1.00
48	20:07	1.00	1.019	1.00	500.00	500.00	0.532	0.532	1.00
49	20:44	1.00	1.050	1.00	250.00	250.00	0.535	0.535	1.00
50	23:14	1.00	1.177	1.00	250.00	250.00	0.933	0.933	1.00

Quantitation Report File: K8103

Data: K8103.TI
1[illegible]/93 15:44:00
Sample: VSTD050
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: JB Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	146	1626	23:20	3	1.184	A VB	100067.	250.000 NG	1.43
52	146	1667	23:56	3	1.214	A BB	93039.	250.000 NG	1.43

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	23:22	1.00	1.184	1.00	250.00	250.00	0.999	0.999	1.00
52	23:57	1.00	1.214	1.00	250.00	250.00	0.929	0.929	1.00

Quantitation Report File: K8106

0947

D: : K8106.TI
1[illegible]/93 17:25:00
Sample: VSTD100
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: JB Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
[illegible]	C050	1,1-DICHLOROETHANE
[illegible]	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
[illegible]	C210	4-METHYL-2-PENTANONE
[illegible]	C215	2-HEXANONE
[illegible]	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

No	Name
	C246 M,P-XYLENE
	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	904	12:59	1	1.000	A BB	27842.	250.000 NG	0.73
2	114	1040	14:56	2	1.000	A BB	107267.	250.000 NG	0.73
3	117	1374	19:43	3	1.000	A BB	98338.	250.000 NG	0.73
4	65	983	14:07	1	1.087	A BB	111121.	500.000 NG	1.46
5	98	1214	17:26	3	0.884	A BB	200807.	500.000 NG	1.46
6	95	1499	21:31	3	1.091	A BV	172951.	500.000 NG	1.46
7	50	304	4:22	1	0.336	A BB	84742.	500.000 NG	1.46
8	94	374	5:22	1	0.414	A BB	61732.	500.000 NG	1.46
9	62	322	4:37	1	0.356	A BB	67153.	500.000 NG	1.46
10	64	392	5:38	1	0.434	A BB	41655.	500.000 NG	1.46
11	84	652	9:22	1	0.721	A BB	69553.	500.000 NG	1.46
12	43	569	8:10	1	0.629	A BB	15865.	500.000 NG	1.46
13	76	596	8:33	1	0.659	A BB	186180.	500.000 NG	1.46
14	96	551	7:55	1	0.610	A BB	61398.	500.000 NG	1.46
15	63	776	11:08	1	0.858	A BB	159426.	500.000 NG	1.46
16	96	703	10:05	1	0.778	A BB	72398.	500.000 NG	1.46
17	83	916	13:09	1	1.013	A BB	197621.	500.000 NG	1.46
18	62	993	14:15	1	1.098	A BB	144371.	500.000 NG	1.46
19	43	874	12:33	1	0.967	A BB	27210.	500.000 NG	1.46
20	97	942	13:31	2	0.906	A BB	175560.	500.000 NG	1.46
[illegible]	117	966	13:52	2	0.929	A BB	164163.	500.000 NG	1.46
[illegible]	43	789	11:20	2	0.759	A BB	163045.	500.000 NG	1.46
23	83	1131	16:14	2	1.087	A BB	213218.	500.000 NG	1.46
24	96	869	12:28	1	0.961	A BB	88088.	500.000 NG	1.46
25	56	532	7:38	1	0.588	A BB	40378.	4000.010 NG	11.68
26	53	699	10:02	1	0.773	A BB	117030.	4000.000 NG	11.68
27	101	445	6:23	1	0.492	A BB	170832.	500.000 NG	1.46
28	41	623	8:57	1	0.689	A BB	20465.	2000.000 NG	5.84
29	63	1100	15:47	2	1.058	A BB	93865.	500.000 NG	1.46
30	75	1183	16:59	2	1.137	A BB	154345.	500.000 NG	1.46
31	130	1073	15:24	2	1.032	A BB	102770.	500.000 NG	1.46
32	129	1309	18:47	2	1.259	A BB	184643.	500.000 NG	1.46
33	97	1264	18:09	2	1.215	A BB	88555.	500.000 NG	1.46
34	78	993	14:15	2	0.955	A BB	191102.	500.000 NG	1.46
35	75	1243	17:51	2	1.195	A BB	147769.	500.000 NG	1.46
36	173	1465	21:02	2	1.409	A BB	131745.	500.000 NG	1.46
37	63	1164	16:42	2	1.119	A BB	52068.	500.000 NG	1.46
38	109	1324	19:00	2	1.273	A BB	136750.	500.000 NG	1.46
39	157	1755	25:11	2	1.687	A BB	41001.	500.000 NG	1.46
40	43	1199	17:13	3	0.873	A BV	82445.	500.000 NG	1.46
41	43	1290	18:31	3	0.939	A BB	54734.	500.000 NG	1.46
42	164	1284	18:26	3	0.934	A BB	89233.	500.000 NG	1.46
43	83	1510	21:40	3	1.099	A BB	150978.	500.000 NG	1.46
44	91	1222	17:32	3	0.889	A BB	228140.	500.000 NG	1.46
45	112	1377	19:46	3	1.002	A BB	190105.	500.000 NG	1.46
46	106	1387	19:55	3	1.009	A BB	77424.	500.000 NG	1.46
[illegible]	104	1444	20:44	3	1.051	A BB	176291.	500.000 NG	1.46
[illegible]	106	1399	20:05	3	1.018	A VB	194848.	1000.000 NG	2.92
49	106	1443	20:43	3	1.050	A BB	100372.	500.000 NG	1.46
50	146	1618	23:14	3	1.178	A BV	174570.	500.000 NG	1.46

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
	12:59	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
	14:56	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
3	19:44	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
4	14:07	1.00	1.088	1.00	500.00	500.00	1.996	1.996	1.00
5	17:27	1.00	0.884	1.00	500.00	500.00	1.021	1.021	1.00
6	21:33	1.00	1.092	1.00	500.00	500.00	0.879	0.879	1.00
7	4:23	1.00	0.337	1.00	500.00	500.00	1.522	1.522	1.00
8	5:29	0.98	0.423	0.98	500.00	500.00	1.109	1.109	1.00
9	4:38	1.00	0.357	1.00	500.00	500.00	1.206	1.206	1.00
10	5:45	0.98	0.444	0.98	500.00	500.00	0.748	0.748	1.00
11	9:22	1.00	0.721	1.00	500.00	500.00	1.249	1.249	1.00
12	8:09	1.00	0.628	1.00	500.00	500.00	0.285	0.285	1.00
13	8:34	1.00	0.660	1.00	500.00	500.00	3.344	3.344	1.00
14	7:56	1.00	0.612	1.00	500.00	500.00	1.103	1.103	1.00
15	11:08	1.00	0.858	1.00	500.00	500.00	2.863	2.863	1.00
16	10:06	1.00	0.779	1.00	500.00	500.00	1.300	1.300	1.00
17	13:09	1.00	1.013	1.00	500.00	500.00	3.549	3.549	1.00
18	14:16	1.00	1.100	1.00	500.00	500.00	2.593	2.593	1.00
19	12:34	1.00	0.968	1.00	500.00	500.00	0.489	0.489	1.00
20	13:32	1.00	0.907	1.00	500.00	500.00	0.818	0.818	1.00
21	13:52	1.00	0.929	1.00	500.00	500.00	0.765	0.765	1.00
22	11:20	1.00	0.759	1.00	500.00	500.00	0.760	0.760	1.00
23	16:15	1.00	1.088	1.00	500.00	500.00	0.994	0.994	1.00
24	12:28	1.00	0.961	1.00	500.00	500.00	1.582	1.582	1.00
25	7:39	1.00	0.590	1.00	4000.01	4000.00	0.091	0.091	1.00
	10:01	1.00	0.772	1.00	4000.00	4000.00	0.263	0.263	1.00
	6:28	0.99	0.498	0.99	500.00	500.00	3.068	3.068	1.00
28	8:56	1.00	0.688	1.00	2000.00	2000.00	0.092	0.092	1.00
29	15:47	1.00	1.058	1.00	500.00	500.00	0.438	0.438	1.00
30	17:00	1.00	1.138	1.00	500.00	500.00	0.719	0.719	1.00
31	15:25	1.00	1.033	1.00	500.00	500.00	0.479	0.479	1.00
32	18:49	1.00	1.261	1.00	500.00	500.00	0.861	0.861	1.00
33	18:10	1.00	1.217	1.00	500.00	500.00	0.413	0.413	1.00
34	14:15	1.00	0.955	1.00	500.00	500.00	0.891	0.891	1.00
35	17:52	1.00	1.197	1.00	500.00	500.00	0.689	0.689	1.00
36	21:03	1.00	1.411	1.00	500.00	500.00	0.614	0.614	1.00
37	16:43	1.00	1.120	1.00	500.00	500.00	0.243	0.243	1.00
38	19:01	1.00	1.274	1.00	500.00	500.00	0.637	0.637	1.00
39	25:12	1.00	1.688	1.00	500.00	500.00	0.191	0.191	1.00
40	17:13	1.00	0.873	1.00	500.00	500.00	0.419	0.419	1.00
41	18:33	1.00	0.940	1.00	500.00	500.00	0.278	0.278	1.00
42	18:27	1.00	0.935	1.00	500.00	500.00	0.454	0.454	1.00
43	21:42	1.00	1.100	1.00	500.00	500.00	0.768	0.768	1.00
44	17:33	1.00	0.889	1.00	500.00	500.00	1.160	1.160	1.00
45	19:47	1.00	1.002	1.00	500.00	500.00	0.967	0.967	1.00
46	19:56	1.00	1.010	1.00	500.00	500.00	0.394	0.394	1.00
47	20:45	1.00	1.051	1.00	500.00	500.00	0.896	0.896	1.00
48	20:07	1.00	1.019	1.00	1000.00	1000.00	0.495	0.495	1.00
49	20:44	1.00	1.050	1.00	500.00	500.00	0.510	0.510	1.00
50	23:14	1.00	1.177	1.00	500.00	500.00	0.888	0.888	1.00

Quantitation Report File: K8106

D : K8106.TI
1 5/93 17:25:00
Sample: VSTD100
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: JB Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	146	1627	23:21	3	1.184	A VB	182204.	500.000 NG	1.46
52	146	1668	23:57	3	1.214	A BB	171128.	500.000 NG	1.46

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	23:22	1.00	1.184	1.00	500.00	500.00	0.926	0.926	1.00
52	23:57	1.00	1.214	1.00	500.00	500.00	0.870	0.870	1.00

Quantitation Report File: K8108

0251

Data: K8108.TI
[illegible]5/93 18:34:00
Sample: VSTD200
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: JB Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
[illegible]	C050	1,1-DICHLOROETHANE
[illegible]	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
[illegible]	C215	2-HEXANONE
[illegible]	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

No	Name	
	C246	M,P-XYLENE
	C247	O-XYLENE
50	C260	1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	905	12:59	1	1.000	A BB	29777.	250.000	NG	0.37
2	114	1041	14:57	2	1.000	A BB	111896.	250.000	NG	0.37
3	117	1376	19:45	3	1.000	A BB	98932.	250.000	NG	0.37
4	65	985	14:08	1	1.088	A BB	222728.	1000.000	NG	1.48
5	98	1216	17:27	3	0.884	A BB	390371.	1000.000	NG	1.48
6	95	1502	21:34	3	1.092	A BV	331852.	1000.000	NG	1.48
7	50	304	4:22	1	0.336	A BB	181537.	1000.000	NG	1.48
8	94	374	5:22	1	0.413	A BB	119802.	1000.000	NG	1.48
9	62	322	4:37	1	0.356	A BB	140061.	1000.000	NG	1.48
10	64	389	5:35	1	0.430	A BB	70508.	1000.000	NG	1.48
11	84	651	9:21	1	0.719	A BB	137657.	1000.000	NG	1.48
12	43	571	8:12	1	0.631	A BB	31225.	1000.000	NG	1.48
13	76	594	8:32	1	0.656	A BB	378261.	1000.000	NG	1.48
14	96	548	7:52	1	0.606	A BB	123828.	1000.000	NG	1.48
15	63	776	11:08	1	0.857	A BB	334871.	1000.000	NG	1.48
16	96	702	10:05	1	0.776	A BB	140762.	1000.000	NG	1.48
17	83	917	13:10	1	1.013	A BB	398263.	1000.000	NG	1.48
18	62	995	14:17	1	1.099	A BB	282553.	1000.000	NG	1.48
19	43	877	12:35	1	0.969	A BB	60734.	1000.000	NG	1.48
20	97	943	13:32	2	0.906	A BB	340343.	1000.000	NG	1.48
[illegible]	117	967	13:53	2	0.929	A BB	321688.	1000.000	NG	1.48
	43	790	11:20	2	0.759	A BB	355283.	1000.000	NG	1.48
23	83	1133	16:16	2	1.088	A BB	417184.	1000.000	NG	1.48
24	96	870	12:29	1	0.961	A BB	177791.	1000.000	NG	1.48
25	56	532	7:38	1	0.588	A BB	95821.	8000.000	NG	11.81
26	53	700	10:03	1	0.773	A BB	247240.	8000.000	NG	11.81
27	101	438	6:17	1	0.484	A BB	311561.	1000.000	NG	1.48
28	41	624	8:57	1	0.690	A BB	42809.	4000.000	NG	5.90
29	63	1101	15:48	2	1.058	A BB	193407.	1000.000	NG	1.48
30	75	1185	17:01	2	1.138	A BB	313572.	1000.000	NG	1.48
31	130	1075	15:26	2	1.033	A BB	199445.	1000.000	NG	1.48
32	129	1312	18:50	2	1.260	A BB	346900.	1000.000	NG	1.48
33	97	1267	18:11	2	1.217	A BB	174987.	1000.000	NG	1.48
34	78	994	14:16	2	0.955	A BB	372651.	1000.000	NG	1.48
35	75	1246	17:53	2	1.197	A BB	299289.	1000.000	NG	1.48
36	173	1468	21:04	2	1.410	A BB	246822.	1000.000	NG	1.48
37	63	1166	16:44	2	1.120	A BB	117280.	1000.000	NG	1.48
38	109	1326	19:02	2	1.274	A BB	270979.	1000.000	NG	1.48
39	157	1757	25:13	2	1.688	A BB	86823.	1000.000	NG	1.48
40	43	1202	17:15	3	0.874	A BV	179297.	1000.000	NG	1.48
41	43	1293	18:34	3	0.940	A BB	118560.	1000.000	NG	1.48
42	164	1286	18:28	3	0.935	A BB	161304.	1000.000	NG	1.48
43	83	1513	21:43	3	1.100	A BB	292206.	1000.000	NG	1.48
44	91	1224	17:34	3	0.890	A BB	455133.	1000.000	NG	1.48
45	112	1379	19:48	3	1.002	A BB	369935.	1000.000	NG	1.48
46	106	1390	19:57	3	1.010	A BV	149087.	1000.000	NG	1.48
	104	1446	20:45	3	1.051	A BB	332642.	1000.000	NG	1.48
[illegible]	106	1402	20:07	3	1.019	A VB	365548.	2000.000	NG	2.95
49	106	1445	20:45	3	1.050	A BB	192117.	1000.000	NG	1.48
50	146	1620	23:15	3	1.177	A BV	330371.	1000.000	NG	1.48

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
	12:59	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
	14:56	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
3	19:44	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
4	14:07	1.00	1.088	1.00	1000.00	1000.00	1.870	1.870	1.00
5	17:27	1.00	0.884	1.00	1000.00	1000.00	0.986	0.986	1.00
6	21:33	1.00	1.092	1.00	1000.00	1000.00	0.839	0.839	1.00
7	4:23	1.00	0.337	1.00	1000.00	1000.00	1.524	1.524	1.00
8	5:29	0.98	0.423	0.98	1000.00	1000.00	1.006	1.006	1.00
9	4:38	1.00	0.357	1.00	1000.00	1000.00	1.176	1.176	1.00
10	5:45	0.97	0.444	0.97	1000.00	1000.00	0.592	0.592	1.00
11	9:22	1.00	0.721	1.00	1000.00	1000.00	1.156	1.156	1.00
12	8:09	1.01	0.628	1.00	1000.00	1000.00	0.262	0.262	1.00
13	8:34	0.99	0.660	0.99	1000.00	1000.00	3.176	3.176	1.00
14	7:56	0.99	0.612	0.99	1000.00	1000.00	1.040	1.040	1.00
15	11:08	1.00	0.858	1.00	1000.00	1000.00	2.811	2.811	1.00
16	10:06	1.00	0.779	1.00	1000.00	1000.00	1.182	1.182	1.00
17	13:09	1.00	1.013	1.00	1000.00	1000.00	3.344	3.344	1.00
18	14:16	1.00	1.100	1.00	1000.00	1000.00	2.372	2.372	1.00
19	12:34	1.00	0.968	1.00	1000.00	1000.00	0.510	0.510	1.00
20	13:32	1.00	0.907	1.00	1000.00	1000.00	0.760	0.760	1.00
21	13:52	1.00	0.929	1.00	1000.00	1000.00	0.719	0.719	1.00
22	11:20	1.00	0.759	1.00	1000.00	1000.00	0.794	0.794	1.00
23	16:15	1.00	1.088	1.00	1000.00	1000.00	0.932	0.932	1.00
24	12:28	1.00	0.961	1.00	1000.00	1000.00	1.493	1.493	1.00
25	7:39	1.00	0.590	1.00	8000.01	8000.00	0.101	0.101	1.00
	10:01	1.00	0.772	1.00	8000.00	8000.00	0.259	0.259	1.00
	6:28	0.97	0.498	0.97	1000.00	1000.00	2.616	2.616	1.00
28	8:56	1.00	0.688	1.00	4000.01	4000.00	0.090	0.090	1.00
29	15:47	1.00	1.058	1.00	1000.00	1000.00	0.432	0.432	1.00
30	17:00	1.00	1.138	1.00	1000.00	1000.00	0.701	0.701	1.00
31	15:25	1.00	1.033	1.00	1000.00	1000.00	0.446	0.446	1.00
32	18:49	1.00	1.261	1.00	1000.00	1000.00	0.775	0.775	1.00
33	18:10	1.00	1.217	1.00	1000.00	1000.00	0.391	0.391	1.00
34	14:15	1.00	0.955	1.00	1000.00	1000.00	0.833	0.833	1.00
35	17:52	1.00	1.197	1.00	1000.00	1000.00	0.669	0.669	1.00
36	21:03	1.00	1.411	1.00	1000.00	1000.00	0.551	0.551	1.00
37	16:43	1.00	1.120	1.00	1000.00	1000.00	0.262	0.262	1.00
38	19:01	1.00	1.274	1.00	1000.00	1000.00	0.605	0.605	1.00
39	25:12	1.00	1.688	1.00	1000.00	1000.00	0.194	0.194	1.00
40	17:13	1.00	0.873	1.00	1000.00	1000.00	0.453	0.453	1.00
41	18:33	1.00	0.940	1.00	1000.00	1000.00	0.300	0.300	1.00
42	18:27	1.00	0.935	1.00	1000.00	1000.00	0.408	0.408	1.00
43	21:42	1.00	1.100	1.00	1000.00	1000.00	0.738	0.738	1.00
44	17:33	1.00	0.889	1.00	1000.00	1000.00	1.150	1.150	1.00
45	19:47	1.00	1.002	1.00	1000.00	1000.00	0.935	0.935	1.00
46	19:56	1.00	1.010	1.00	1000.00	1000.00	0.377	0.377	1.00
47	20:45	1.00	1.051	1.00	1000.00	1000.00	0.841	0.841	1.00
48	20:07	1.00	1.019	1.00	2000.00	2000.00	0.462	0.462	1.00
49	20:44	1.00	1.050	1.00	1000.00	1000.00	0.485	0.485	1.00
50	23:14	1.00	1.177	1.00	1000.00	1000.00	0.835	0.835	1.00

Quantitation Report File: K8108

Data: K8108.TI
15/93 18:34:00
Sample: VSTD200
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: JB Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	146	1629	23:23	3	1.184	A VB	348352.	1000.000 NG	1.48
52	146	1670	23:58	3	1.214	A BB	325642.	1000.000 NG	1.48

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	23:22	1.00	1.184	1.00	1000.00	1000.00	0.880	0.880	1.00
52	23:57	1.00	1.214	1.00	1000.00	1000.00	0.823	0.823	1.00

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Instrument ID: I50K Calibration date: 12/17/93 Time: 1929

Lab File ID: K8696 Init. Calib. Date(s): 11/15/93 11/15/93

Heated Purge: (Y/N) N Init. Calib. Times: 1544 1834

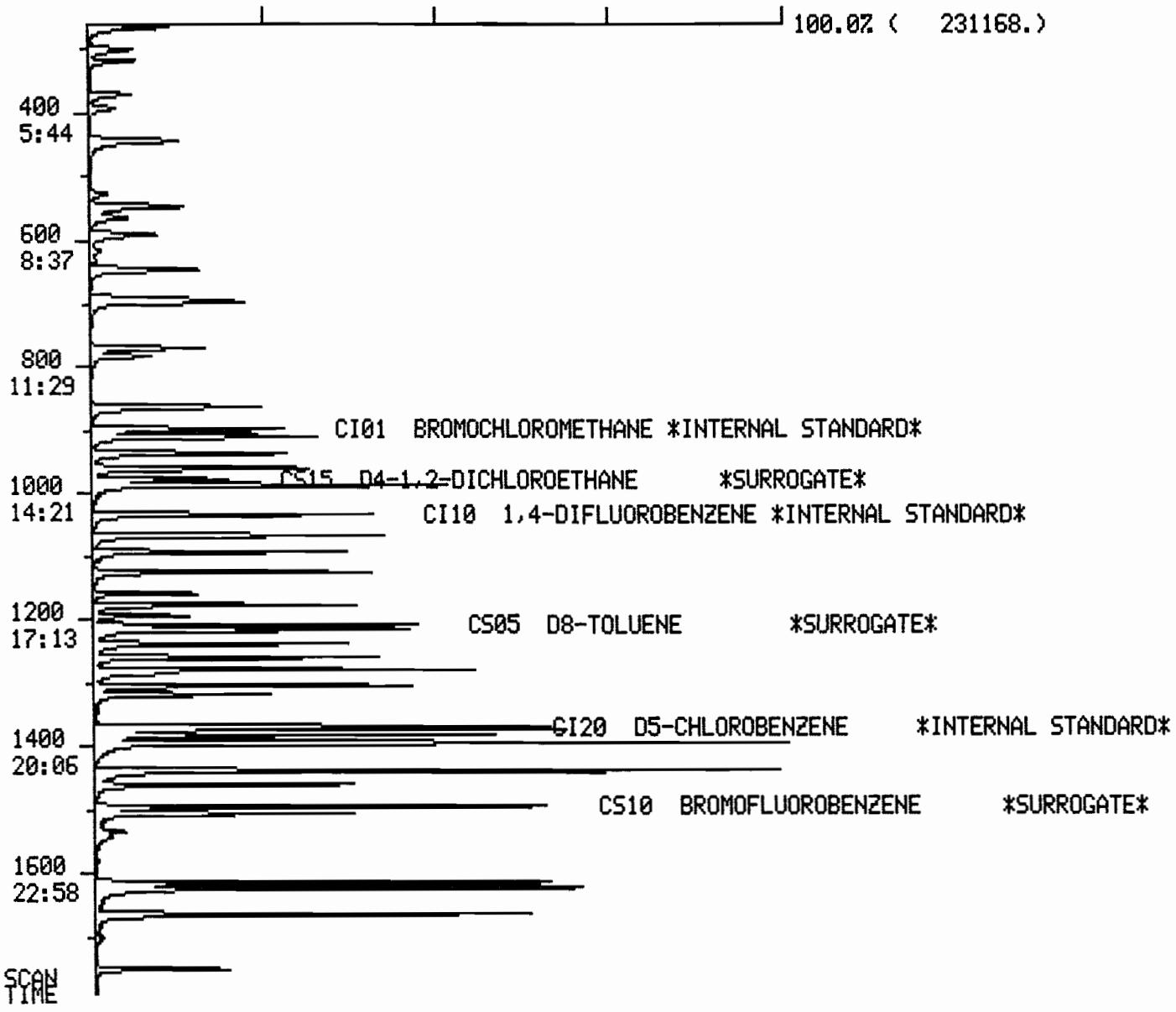
GC Column: DB-624 ID: 0.530 (mm)

COMPOUND	RRF	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.458	1.449		0.6	
Bromomethane	1.093	0.713	0.100	34.8	25.0
Vinyl Chloride	1.123	1.107	0.100	1.4	25.0
Chloroethane	0.718	0.715		0.4	
Methylene Chloride	1.206	1.207		-0.1	
Acetone	0.265	0.281		-6.0	
Carbon Disulfide	3.135	2.792		10.9	
1,1-Dichloroethene	1.052	1.029	0.100	2.2	25.0
1,1-Dichloroethane	2.753	2.876	0.200	-4.5	25.0
1,2-Dichloroethene (total)	1.333	1.311		1.6	
Chloroform	3.394	3.470	0.200	-2.2	25.0
1,2-Dichloroethane	2.436	2.312	0.100	5.1	25.0
2-Butanone	0.456	0.495		-8.6	
1,1,1-Trichloroethane	0.774	0.763	0.100	1.4	25.0
Carbon Tetrachloride	0.726	0.734	0.100	-1.1	25.0
Bromodichloromethane	0.929	0.896	0.200	3.6	25.0
1,2-Dichloropropane	0.429	0.424		1.2	
cis-1,3-dichloropropene	0.663	0.652	0.200	1.7	25.0
Trichloroethene	0.473	0.482	0.300	-1.9	25.0
Dibromochloromethane	0.815	0.762	0.100	6.5	25.0
1,1,2-Trichloroethane	0.408	0.388	0.100	4.9	25.0
Benzene	0.885	0.929	0.500	-5.0	25.0
trans-1,3-dichloropropene	0.625	0.591	0.100	5.4	25.0
Bromoform	0.576	0.559	0.100	3.0	25.0
4-Methyl-2-Pentanone	0.395	0.416		-5.3	
2-Hexanone	0.263	0.263		0.0	
Tetrachloroethene	0.453	0.474	0.200	-4.6	25.0
1,1,2,2-Tetrachloroethane	0.735	0.702	0.500	4.5	25.0
Toluene	1.131	1.119	0.400	1.1	25.0
Chlorobenzene	0.959	1.024	0.500	-6.8	25.0
Ethylbenzene	0.384	0.370	0.100	3.6	25.0
Styrene	0.874	0.855	0.300	2.2	25.0
Total Xylenes	0.519	0.497	0.300	4.2	25.0
Toluene-d8	0.983	1.082		-10.1	
Bromofluorobenzene	0.859	0.927	0.200	-7.9	25.0
1,2-Dichloroethane-d4	1.927	2.060		-6.9	

All other compounds must meet a minimum RRF of 0.010.

DATA FROM FILE: K8696 SCANS 260 TO 1790 ACQUIRED: 12/17/93 19:29:00
CALI: K8696 #3

SAMPLE: VSTD050
CONDS.: I50K



95/20

Quantitation Report File: K8696

Data: K8696.TI
Run: 7/93 19:29:00
Sample: VSTD050
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
15	C050	1,1-DICHLOROETHANE
	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
	C215	2-HEXANONE
	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

No	Name
	C246 M,P-XYLENE
	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	896	12:52	1	1.000	A BB	42795.	250.000 NG	1.43
2	114	1032	14:49	2	1.000	A BB	164542.	250.000 NG	1.43
3	117	1367	19:37	3	1.000	A BB	144592.	250.000 NG	1.43
4	65	976	14:01	1	1.089	A BB	88166.	250.000 NG	1.43
5	98	1207	17:20	3	0.883	A BB	156408.	250.000 NG	1.43
6	95	1492	21:25	3	1.091	A BV	133977.	250.000 NG	1.43
7	50	297	4:16	1	0.331	A BB	62021.	250.000 NG	1.43
8	94	368	5:17	1	0.411	A BB	30505.	250.000 NG	1.43
9	62	315	4:31	1	0.352	A BB	47393.	250.000 NG	1.43
10	64	390	5:36	1	0.435	A BB	30582.	250.000 NG	1.43
11	84	643	9:14	1	0.718	A BB	51640.	250.000 NG	1.43
12	43	559	8:01	1	0.624	A BB	12007.	250.000 NG	1.43
13	76	588	8:26	1	0.656	A BB	119492.	250.000 NG	1.43
14	96	543	7:48	1	0.606	A BB	44035.	250.000 NG	1.43
15	63	768	11:01	1	0.857	A BB	123091.	250.000 NG	1.43
16	96	695	9:59	1	0.776	A BB	49310.	250.000 NG	1.43
17	83	908	13:02	1	1.013	A BB	148493.	250.000 NG	1.43
18	62	986	14:09	1	1.100	A BB	98952.	250.000 NG	1.43
19	43	867	12:27	1	0.968	A BB	21164.	250.000 NG	1.43
20	97	935	13:25	2	0.906	A BB	125556.	250.000 NG	1.43
[illegible]	117	958	13:45	2	0.928	A BB	120717.	250.000 NG	1.43
	43	781	11:13	2	0.757	A BB	96974.	250.000 NG	1.43
23	83	1124	16:08	2	1.089	A BB	147461.	250.000 NG	1.43
24	96	861	12:22	1	0.961	A BB	62911.	250.000 NG	1.43
25	56	523	7:30	1	0.584	A BB	18567.	2000.000 NG	11.43
26	53	690	9:54	1	0.770	A BB	81346.	2000.000 NG	11.43
27	101	440	6:19	1	0.491	A BB	106389.	250.000 NG	1.43
28	41	613	8:48	1	0.684	A BB	14010.	1000.000 NG	5.71
29	63	1092	15:40	2	1.058	A BB	69728.	250.000 NG	1.43
30	75	1175	16:52	2	1.139	A BB	107222.	250.000 NG	1.43
31	130	1065	15:17	2	1.032	A BB	79241.	250.000 NG	1.43
32	129	1302	18:41	2	1.262	A BB	125388.	250.000 NG	1.43
33	97	1257	18:03	2	1.218	A BB	63782.	250.000 NG	1.43
34	78	985	14:08	2	0.954	A BB	152903.	250.000 NG	1.43
35	75	1236	17:45	2	1.198	A BB	97229.	250.000 NG	1.43
36	173	1458	20:56	2	1.413	A BB	92050.	250.000 NG	1.43
37	63	1157	16:36	2	1.121	A BB	32839.	250.000 NG	1.43
38	109	1317	18:54	2	1.276	A BB	95303.	250.000 NG	1.43
39	157	1748	25:05	2	1.694	A BB	28095.	250.000 NG	1.43
40	43	1192	17:07	3	0.872	A BV	60132.	250.000 NG	1.43
41	43	1283	18:25	3	0.939	A BB	38060.	250.000 NG	1.43
42	164	1277	18:20	3	0.934	A BB	68557.	250.000 NG	1.43
43	83	1504	21:35	3	1.100	A BB	101554.	250.000 NG	1.43
44	91	1215	17:26	3	0.889	A BB	161828.	250.001 NG	1.43
45	112	1370	19:40	3	1.002	A BB	148016.	250.001 NG	1.43
46	106	1380	19:49	3	1.010	A BB	53511.	250.000 NG	1.43
	104	1437	20:38	3	1.051	A BB	123558.	250.000 NG	1.43
[illegible]	106	1392	19:59	3	1.018	A VB	143141.	500.000 NG	2.86
49	106	1436	20:37	3	1.050	A BB	71801.	250.000 NG	1.43
50	146	1611	23:07	3	1.178	A BV	137281.	250.000 NG	1.43

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
	12:52	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
	14:49	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
3	19:37	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
4	14:01	1.00	1.089	1.00	250.00	250.00	2.060	2.060	1.00
5	17:20	1.00	0.883	1.00	250.00	250.00	1.082	1.082	1.00
6	21:25	1.00	1.091	1.00	250.00	250.00	0.927	0.927	1.00
7	4:16	1.00	0.331	1.00	250.00	250.00	1.449	1.449	1.00
8	5:17	1.00	0.411	1.00	250.00	250.00	0.713	0.713	1.00
9	4:31	1.00	0.352	1.00	250.00	250.00	1.107	1.107	1.00
10	5:36	1.00	0.435	1.00	250.00	250.00	0.715	0.715	1.00
11	9:14	1.00	0.718	1.00	250.00	250.00	1.207	1.207	1.00
12	8:01	1.00	0.624	1.00	250.00	250.00	0.281	0.281	1.00
13	8:26	1.00	0.656	1.00	250.00	250.00	2.792	2.792	1.00
14	7:48	1.00	0.606	1.00	250.00	250.00	1.029	1.029	1.00
15	11:01	1.00	0.857	1.00	250.00	250.00	2.876	2.876	1.00
16	9:59	1.00	0.776	1.00	250.00	250.00	1.152	1.152	1.00
17	13:02	1.00	1.013	1.00	250.00	250.00	3.470	3.470	1.00
18	14:09	1.00	1.100	1.00	250.00	250.00	2.312	2.312	1.00
19	12:27	1.00	0.968	1.00	250.00	250.00	0.495	0.495	1.00
20	13:25	1.00	0.906	1.00	250.00	250.00	0.763	0.763	1.00
21	13:45	1.00	0.928	1.00	250.00	250.00	0.734	0.734	1.00
22	11:13	1.00	0.757	1.00	250.00	250.00	0.589	0.589	1.00
23	16:08	1.00	1.089	1.00	250.00	250.00	0.896	0.896	1.00
24	12:22	1.00	0.961	1.00	250.00	250.00	1.470	1.470	1.00
25	7:30	1.00	0.584	1.00	2000.00	2000.00	0.054	0.054	1.00
26	9:54	1.00	0.770	1.00	2000.00	2000.00	0.238	0.238	1.00
	6:19	1.00	0.491	1.00	250.00	250.00	2.486	2.486	1.00
28	8:48	1.00	0.684	1.00	1000.00	1000.00	0.082	0.082	1.00
29	15:40	1.00	1.058	1.00	250.00	250.00	0.424	0.424	1.00
30	16:52	1.00	1.139	1.00	250.00	250.00	0.652	0.652	1.00
31	15:17	1.00	1.032	1.00	250.00	250.00	0.482	0.482	1.00
32	18:41	1.00	1.262	1.00	250.00	250.00	0.762	0.762	1.00
33	18:03	1.00	1.218	1.00	250.00	250.00	0.388	0.388	1.00
34	14:08	1.00	0.954	1.00	250.00	250.00	0.929	0.929	1.00
35	17:45	1.00	1.198	1.00	250.00	250.00	0.591	0.591	1.00
36	20:56	1.00	1.413	1.00	250.00	250.00	0.559	0.559	1.00
37	16:36	1.00	1.121	1.00	250.00	250.00	0.200	0.200	1.00
38	18:54	1.00	1.276	1.00	250.00	250.00	0.579	0.579	1.00
39	25:05	1.00	1.694	1.00	250.00	250.00	0.171	0.171	1.00
40	17:07	1.00	0.872	1.00	250.00	250.00	0.416	0.416	1.00
41	18:25	1.00	0.939	1.00	250.00	250.00	0.263	0.263	1.00
42	18:20	1.00	0.934	1.00	250.00	250.00	0.474	0.474	1.00
43	21:35	1.00	1.100	1.00	250.00	250.00	0.702	0.702	1.00
44	17:26	1.00	0.889	1.00	250.00	250.00	1.119	1.119	1.00
45	19:40	1.00	1.002	1.00	250.00	250.00	1.024	1.024	1.00
46	19:49	1.00	1.010	1.00	250.00	250.00	0.370	0.370	1.00
47	20:38	1.00	1.051	1.00	250.00	250.00	0.855	0.855	1.00
48	19:59	1.00	1.018	1.00	500.00	500.00	0.495	0.495	1.00
49	20:37	1.00	1.050	1.00	250.00	250.00	0.497	0.497	1.00
50	23:07	1.00	1.178	1.00	250.00	250.00	0.949	0.949	1.00

Quantitation Report File: K8696

D : K8696.TI
1 7/93 19:29:00
Sample: VSTD050
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	146	1620	23:15	3	1.185	A VB	156434.	250.000 NG	1.43
52	146	1661	23:51	3	1.215	A BB	141289.	250.000 NG	1.43

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	23:15	1.00	1.185	1.00	250.00	250.00	1.082	1.082	1.00
52	23:51	1.00	1.215	1.00	250.00	250.00	0.977	0.977	1.00

7A

VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Instrument ID: I50K Calibration date: 12/18/93 Time: 1317

Lab File ID: K8724 Init. Calib. Date(s): 11/15/93 11/15/93

Heated Purge: (Y/N) N Init. Calib. Times: 1544 1834

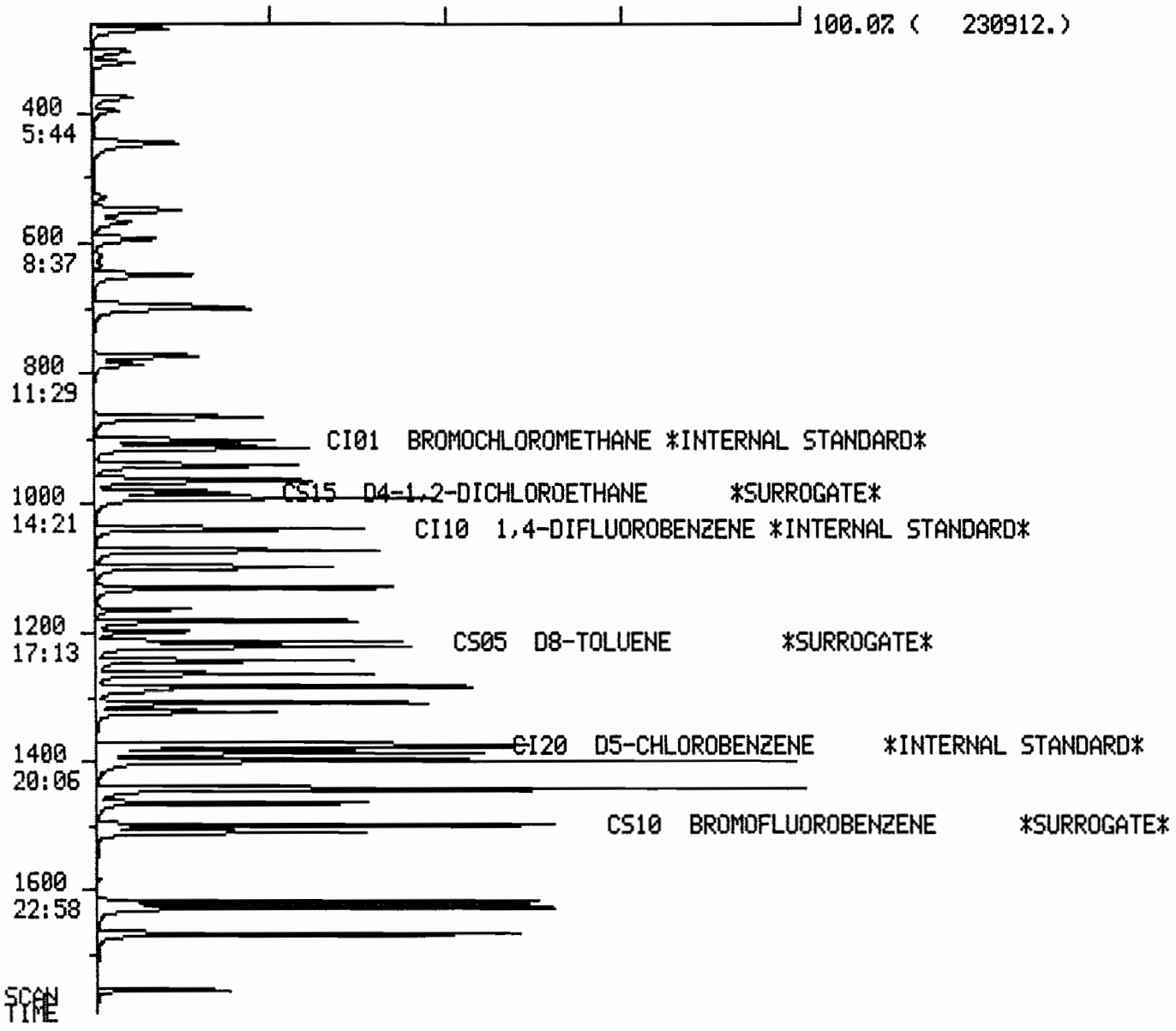
GC Column: DB-624 ID: 0.530 (mm)

COMPOUND	$\overline{RRF}$	RRF50	MIN RRF	%D	MAX %D
Chloromethane	1.458	1.381		5.3	
Bromomethane	1.093	0.861	0.100	21.2	25.0
Vinyl Chloride	1.123	1.136	0.100	-1.2	25.0
Chloroethane	0.718	0.794		-10.6	
Methylene Chloride	1.206	1.160		3.8	
Acetone	0.265	0.285		-7.5	
Carbon Disulfide	3.135	2.766		11.8	
1,1-Dichloroethene	1.052	0.973	0.100	7.5	25.0
1,1-Dichloroethane	2.753	2.830	0.200	-2.8	25.0
1,2-Dichloroethene (total)	1.333	1.347		-1.0	
Chloroform	3.394	3.486	0.200	-2.7	25.0
1,2-Dichloroethane	2.436	2.580	0.100	-5.9	25.0
2-Butanone	0.456	0.491		-7.7	
1,1,1-Trichloroethane	0.774	0.839	0.100	-8.4	25.0
Carbon Tetrachloride	0.726	0.791	0.100	-9.0	25.0
Bromodichloromethane	0.929	0.973	0.200	-4.7	25.0
1,2-Dichloropropane	0.429	0.415		3.3	
cis-1,3-dichloropropene	0.663	0.679	0.200	-2.4	25.0
Trichloroethene	0.473	0.471	0.300	0.4	25.0
Dibromochloromethane	0.815	0.838	0.100	-2.8	25.0
1,1,2-Trichloroethane	0.408	0.395	0.100	3.2	25.0
Benzene	0.885	0.868	0.500	1.9	25.0
trans-1,3-dichloropropene	0.625	0.632	0.100	-1.1	25.0
Bromoform	0.576	0.619	0.100	-7.5	25.0
4-Methyl-2-Pentanone	0.395	0.396		-0.3	
2-Hexanone	0.263	0.253		3.8	
Tetrachloroethene	0.453	0.481	0.200	-6.2	25.0
1,1,2,2-Tetrachloroethane	0.735	0.728	0.500	1.0	25.0
Toluene	1.131	1.109	0.400	1.9	25.0
Chlorobenzene	0.959	0.915	0.500	4.6	25.0
Ethylbenzene	0.384	0.368	0.100	4.2	25.0
Styrene	0.874	0.886	0.300	-1.4	25.0
Total Xylenes	0.519	0.501	0.300	3.5	25.0
Toluene-d8	0.983	1.052		-7.0	
Bromofluorobenzene	0.859	0.909	0.200	-5.8	25.0
1,2-Dichloroethane-d4	1.927	2.214		-14.9	

All other compounds must meet a minimum RRF of 0.010.

DATA FROM FILE: K8724 SCANS 260 TO 1790 ACQUIRED: 12/18/93 13:17:00
CALI: K8724 #3

SAMPLE: VSTD050
CONDS.: I50K



Quantitation Report File: K8724

Data: K8724.TI
18/93 13:17:00
Sample: VSTD050
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
15	C050	1,1-DICHLOROETHANE
	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
	C215	2-HEXANONE
	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

No	Name
	C246 M,P-XYLENE
	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	900	12:55	1	1.000	A BB	39498.	250.000 NG	1.43
2	114	1036	14:52	2	1.000	A BB	150529.	250.000 NG	1.43
3	117	1370	19:40	3	1.000	A BB	139230.	250.000 NG	1.43
4	65	980	14:04	1	1.089	A BB	87440.	250.000 NG	1.43
5	98	1211	17:23	3	0.884	A BB	146436.	250.000 NG	1.43
6	95	1496	21:28	3	1.092	A BV	126512.	250.000 NG	1.43
7	50	299	4:18	1	0.332	A BB	54565.	250.000 NG	1.43
8	94	372	5:20	1	0.413	A BB	34013.	250.000 NG	1.43
9	62	317	4:33	1	0.352	A BB	44873.	250.000 NG	1.43
10	64	393	5:38	1	0.437	A BB	31362.	250.000 NG	1.43
11	84	646	9:16	1	0.718	A BB	45817.	250.000 NG	1.43
12	43	563	8:05	1	0.626	A BB	11260.	250.000 NG	1.43
13	76	591	8:29	1	0.657	A BB	109265.	250.000 NG	1.43
14	96	547	7:51	1	0.608	A BB	38427.	250.000 NG	1.43
15	63	771	11:04	1	0.857	A BB	111782.	250.000 NG	1.43
16	96	699	10:02	1	0.777	A BB	47474.	250.000 NG	1.43
17	83	912	13:05	1	1.013	A BB	137684.	250.000 NG	1.43
18	62	989	14:12	1	1.099	A BB	101911.	250.000 NG	1.43
19	43	870	12:29	1	0.967	A BB	19378.	250.000 NG	1.43
20	97	939	13:29	2	0.906	A BB	126318.	250.000 NG	1.43
21	117	962	13:49	2	0.929	A BB	119075.	250.000 NG	1.43
	43	784	11:15	2	0.757	A BB	79217.	250.000 NG	1.43
23	83	1127	16:11	2	1.088	A BB	146481.	250.000 NG	1.43
24	96	865	12:25	1	0.961	A BB	58921.	250.000 NG	1.43
25	56	527	7:34	1	0.586	A BB	13824.	2000.000 NG	11.43
26	53	693	9:57	1	0.770	A BB	76023.	2000.000 NG	11.43
27	101	443	6:22	1	0.492	A BB	100902.	250.000 NG	1.43
28	41	617	8:51	1	0.686	A BB	11771.	1000.000 NG	5.71
29	63	1095	15:43	2	1.057	A BB	62399.	250.000 NG	1.43
30	75	1179	16:55	2	1.138	A BB	102269.	250.000 NG	1.43
31	130	1069	15:21	2	1.032	A BB	70834.	250.000 NG	1.43
32	129	1306	18:45	2	1.261	A BB	126202.	250.000 NG	1.43
33	97	1261	18:06	2	1.217	A BB	59385.	250.000 NG	1.43
34	78	988	14:11	2	0.954	A BB	130628.	250.000 NG	1.43
35	75	1240	17:48	2	1.197	A BB	95170.	250.000 NG	1.43
36	173	1462	20:59	2	1.411	A BB	93191.	250.000 NG	1.43
37	63	1160	16:39	2	1.120	A BB	29913.	250.000 NG	1.43
38	109	1320	18:57	2	1.274	A BB	91431.	250.000 NG	1.43
39	157	1752	25:09	2	1.691	A BB	27273.	250.000 NG	1.43
40	43	1195	17:09	3	0.872	A BV	55196.	250.000 NG	1.43
41	43	1287	18:28	3	0.939	A BB	35257.	250.000 NG	1.43
42	164	1280	18:22	3	0.934	A BB	67015.	250.000 NG	1.43
43	83	1507	21:38	3	1.100	A BB	101410.	250.000 NG	1.43
44	91	1218	17:29	3	0.889	A BB	154382.	250.000 NG	1.43
45	112	1374	19:43	3	1.003	A BB	127398.	250.000 NG	1.43
46	106	1384	19:52	3	1.010	A BB	51197.	250.000 NG	1.43
	104	1440	20:40	3	1.051	A BB	123389.	250.000 NG	1.43
	106	1396	20:02	3	1.019	A VB	138570.	500.000 NG	2.86
49	106	1439	20:39	3	1.050	A BB	69736.	250.000 NG	1.43
50	146	1615	23:11	3	1.179	A BV	125541.	250.000 NG	1.43

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
	12:55	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
	14:52	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
3	19:40	1.00	1.000	1.00	250.00	250.00	1.000	1.000	1.00
4	14:04	1.00	1.089	1.00	250.00	250.00	2.214	2.214	1.00
5	17:23	1.00	0.883	1.00	250.00	250.00	1.052	1.052	1.00
6	21:28	1.00	1.091	1.00	250.00	250.00	0.909	0.909	1.00
7	4:18	1.00	0.331	1.00	250.00	250.00	1.381	1.381	1.00
8	5:20	1.00	0.411	1.01	250.00	250.00	0.861	0.861	1.00
9	4:33	1.00	0.352	1.00	250.00	250.00	1.136	1.136	1.00
10	5:38	1.00	0.435	1.00	250.00	250.00	0.794	0.794	1.00
11	9:16	1.00	0.718	1.00	250.00	250.00	1.160	1.160	1.00
12	8:05	1.00	0.624	1.00	250.00	250.00	0.285	0.285	1.00
13	8:29	1.00	0.656	1.00	250.00	250.00	2.766	2.766	1.00
14	7:51	1.00	0.606	1.00	250.00	250.00	0.973	0.973	1.00
15	11:04	1.00	0.857	1.00	250.00	250.00	2.830	2.830	1.00
16	10:02	1.00	0.776	1.00	250.00	250.00	1.202	1.202	1.00
17	13:05	1.00	1.013	1.00	250.00	250.00	3.486	3.486	1.00
18	14:12	1.00	1.100	1.00	250.00	250.00	2.580	2.580	1.00
19	12:29	1.00	0.968	1.00	250.00	250.00	0.491	0.491	1.00
20	13:29	1.00	0.906	1.00	250.00	250.00	0.839	0.839	1.00
21	13:49	1.00	0.928	1.00	250.00	250.00	0.791	0.791	1.00
22	11:15	1.00	0.757	1.00	250.00	250.00	0.526	0.526	1.00
23	16:11	1.00	1.089	1.00	250.00	250.00	0.973	0.973	1.00
24	12:25	1.00	0.961	1.00	250.00	250.00	1.492	1.492	1.00
25	7:34	1.00	0.584	1.00	2000.00	2000.00	0.044	0.044	1.00
[illegible]	9:57	1.00	0.770	1.00	2000.00	2000.00	0.241	0.241	1.00
	6:22	1.00	0.491	1.00	250.00	250.00	2.555	2.555	1.00
28	8:51	1.00	0.684	1.00	1000.00	1000.00	0.075	0.075	1.00
29	15:43	1.00	1.058	1.00	250.00	250.00	0.415	0.415	1.00
30	16:55	1.00	1.139	1.00	250.00	250.00	0.679	0.679	1.00
31	15:21	1.00	1.032	1.00	250.00	250.00	0.471	0.471	1.00
32	18:45	1.00	1.262	1.00	250.00	250.00	0.838	0.838	1.00
33	18:06	1.00	1.218	1.00	250.00	250.00	0.395	0.395	1.00
34	14:11	1.00	0.954	1.00	250.00	250.00	0.868	0.868	1.00
35	17:48	1.00	1.198	1.00	250.00	250.00	0.632	0.632	1.00
36	20:59	1.00	1.413	1.00	250.00	250.00	0.619	0.619	1.00
37	16:39	1.00	1.121	1.00	250.00	250.00	0.199	0.199	1.00
38	18:57	1.00	1.276	1.00	250.00	250.00	0.607	0.607	1.00
39	25:09	1.00	1.694	1.00	250.00	250.00	0.181	0.181	1.00
40	17:09	1.00	0.872	1.00	250.00	250.00	0.396	0.396	1.00
41	18:28	1.00	0.939	1.00	250.00	250.00	0.253	0.253	1.00
42	18:22	1.00	0.934	1.00	250.00	250.00	0.481	0.481	1.00
43	21:38	1.00	1.100	1.00	250.00	250.00	0.728	0.728	1.00
44	17:29	1.00	0.889	1.00	250.00	250.00	1.109	1.109	1.00
45	19:43	1.00	1.002	1.00	250.00	250.00	0.915	0.915	1.00
46	19:52	1.00	1.010	1.00	250.00	250.00	0.368	0.368	1.00
47	20:40	1.00	1.051	1.00	250.00	250.00	0.886	0.886	1.00
48	20:02	1.00	1.018	1.00	500.00	500.00	0.498	0.498	1.00
49	20:39	1.00	1.050	1.00	250.00	250.00	0.501	0.501	1.00
50	23:11	1.00	1.178	1.00	250.00	250.00	0.902	0.902	1.00

Quantitation Report File: K8724

Data: K8724.TI
Date: 8/93 13:17:00
Sample: VSTD050
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	146	1624	23:19	3	1.185	A VB	138962.	250.000 NG	1.43
52	146	1665	23:54	3	1.215	A BB	125219.	250.000 NG	1.43

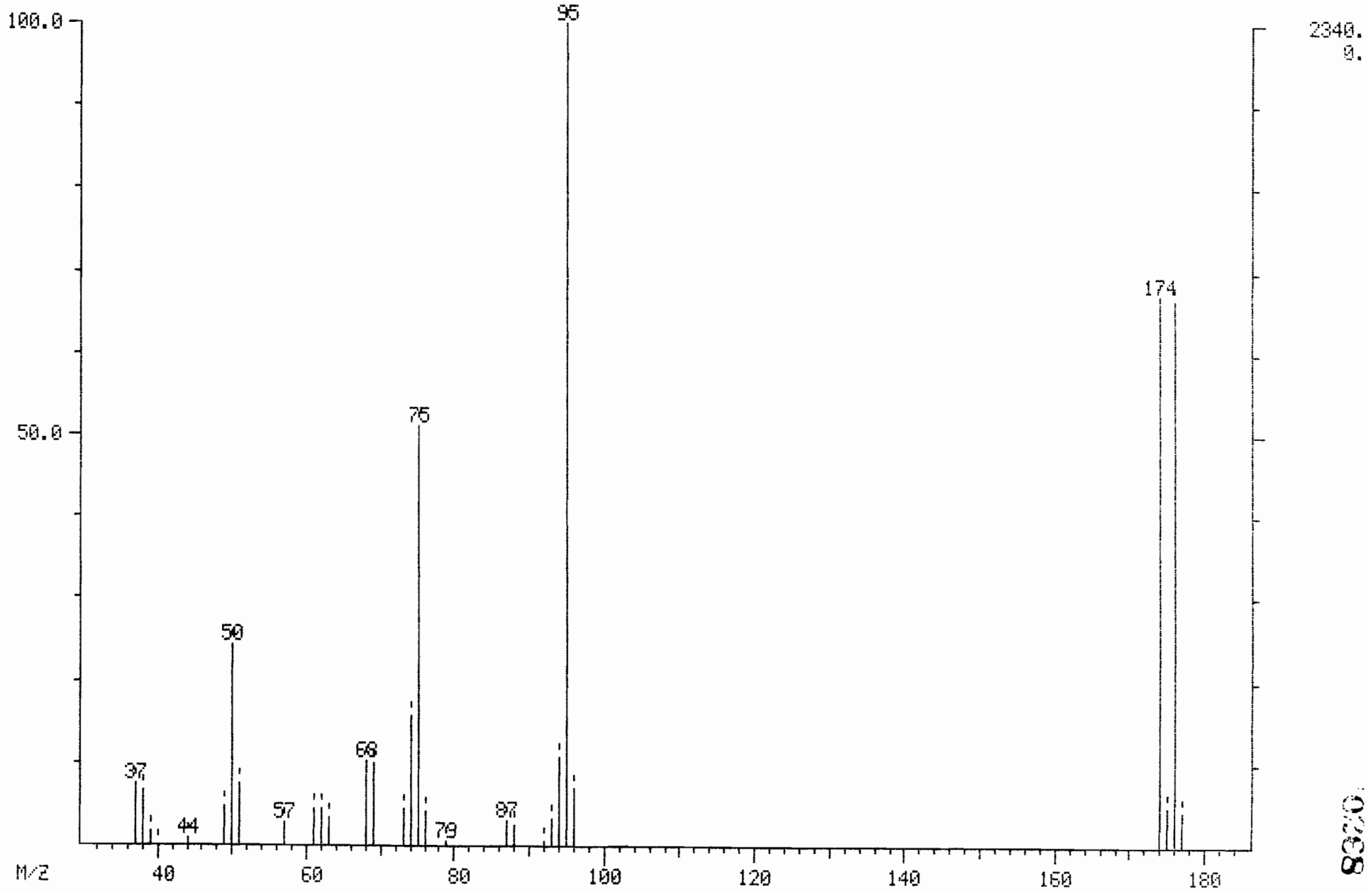
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	23:19	1.00	1.185	1.00	250.00	250.00	0.998	0.998	1.00
52	23:54	1.00	1.215	1.00	250.00	250.00	0.899	0.899	1.00

RAW QC DATA

MASS SPECTRUM
11/15/93 15:28:00 + 7:01
SAMPLE: 11158FBK1
CONDS.: I50K
TEMP: 150 DEG. C
#488 TO #490 AVERAGED - #460

DATA: K8102 #489
CALI: CALTAB #3

BASE M/Z: 95
RIC: 10144.



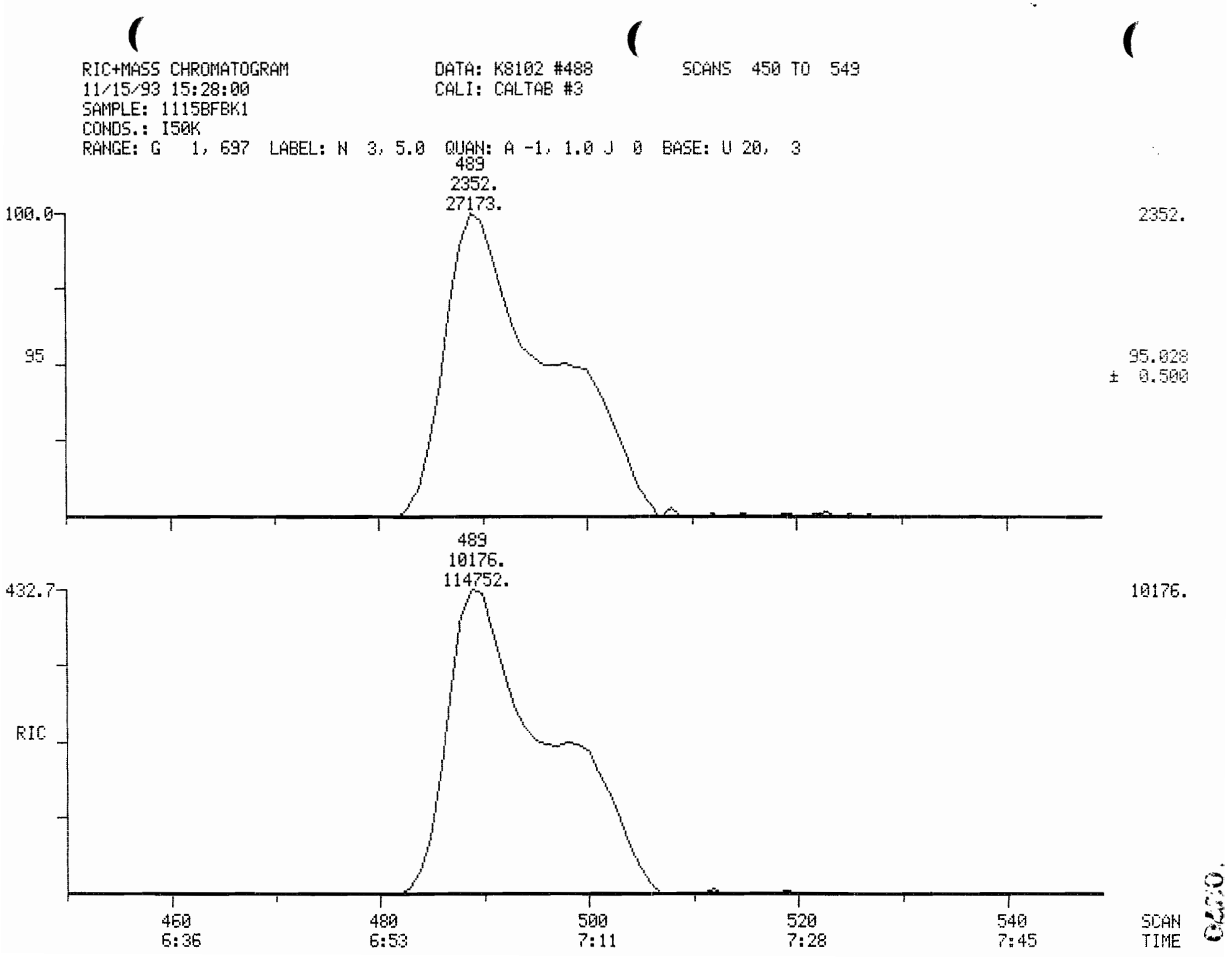
Mass List
11/15/93 15:28:00 + 7:01
Sample: 1115BFBK1
ds.: I50K
488 to #490 averaged - #460

Data: K8102 # 489
Cali: CALTAB # 3

Base m/z: 95
RIC: 10144.

37	0.00	0.	Minima	Min Inten:	0.
177			Maxima	# 0	

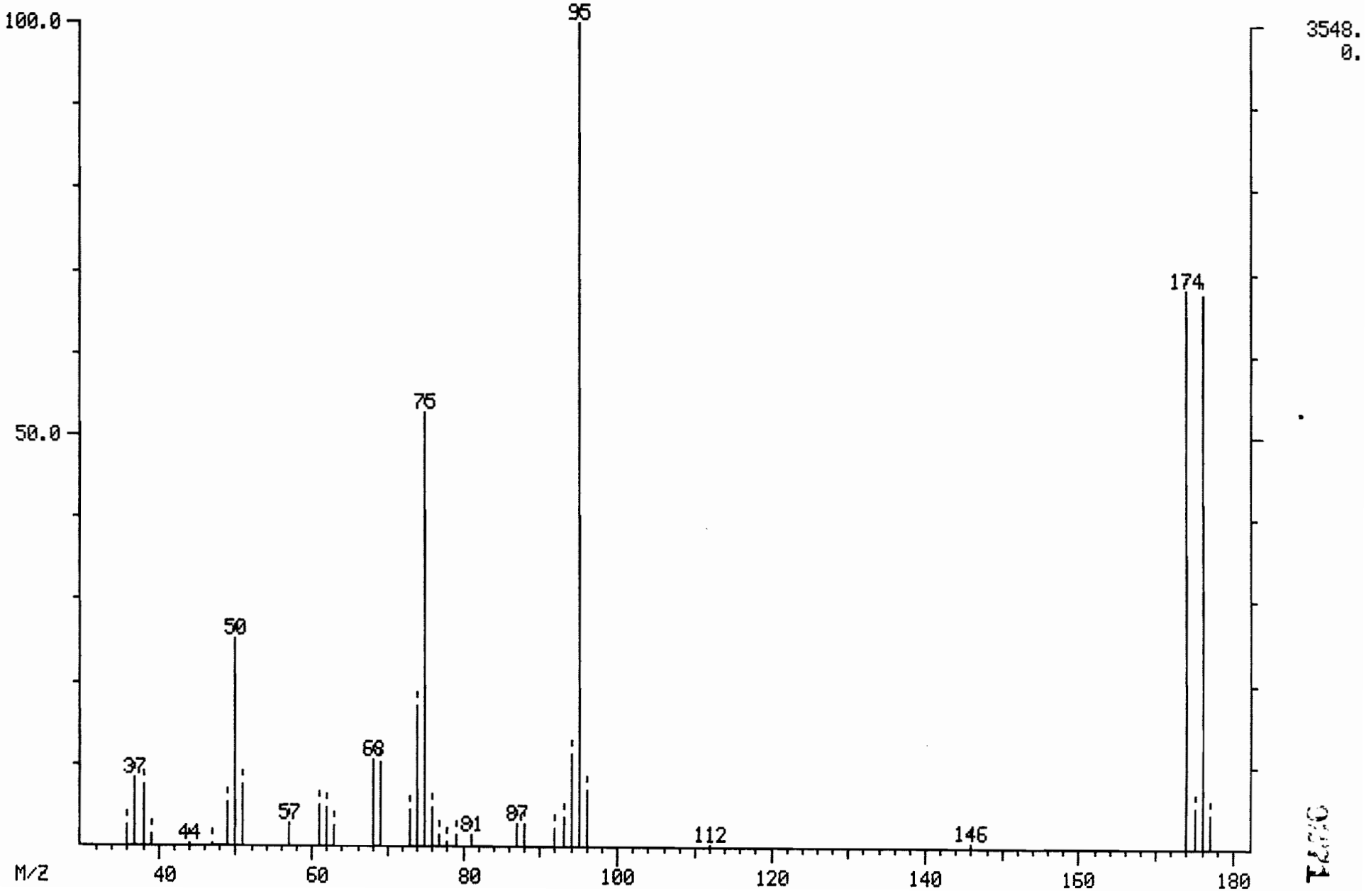
Mass	% RA	Inten.
37	7.44	174.
38	6.62	155.
39	1.67	39.
40	0.13	3.
44	0.77	18.
49	4.62	108.
50	24.36	570.
51	7.35	172.
57	2.74	64.
61	4.53	106.
62	4.44	104.
63	3.21	75.
68	10.17	238.
69	10.04	235.
73	4.40	103.
74	15.73	368.
75	51.03	1194.
76	4.23	99.
79	0.47	11.
87	2.95	69.
88	2.44	57.
92	0.60	14.
93	3.33	78.
94	10.64	249.
95	100.00	2340.
96	6.97	163.
174	67.01	1568.
175	4.74	111.
176	66.58	1558.
177	4.19	98.


RIC+MASS CHROMATOGRAM
11/15/93 15:28:00
SAMPLE: 1115BFBK1
CONDS.: I50K
RANGE: G 1, 697 LABEL: N 3, 5.0 QUAN: A -1, 1.0 J 0 BASE: U 20, 3
DATA: K8102 #488
CALI: CALTAB #3
SCANS 450 TO 549
489
2352.
27173.
100.0
95
2352.
95.028
± 0.500
489
10176.
114752.
432.7
RIC
10176.
460
6:36
480
6:53
500
7:11
520
7:28
540
7:45
SCAN
TIME

MASS SPECTRUM
12/17/93 19:18:00 + 6:59
SAMPLE: 1217BFBK2
CONDS.: I50K
TEMP: 150 DEG. C
#485 TO #487 AVERAGED - #470

DATA: K8695 #486
CALI: CALTAB #3

BASE M/Z: 95
RIC: 16064.

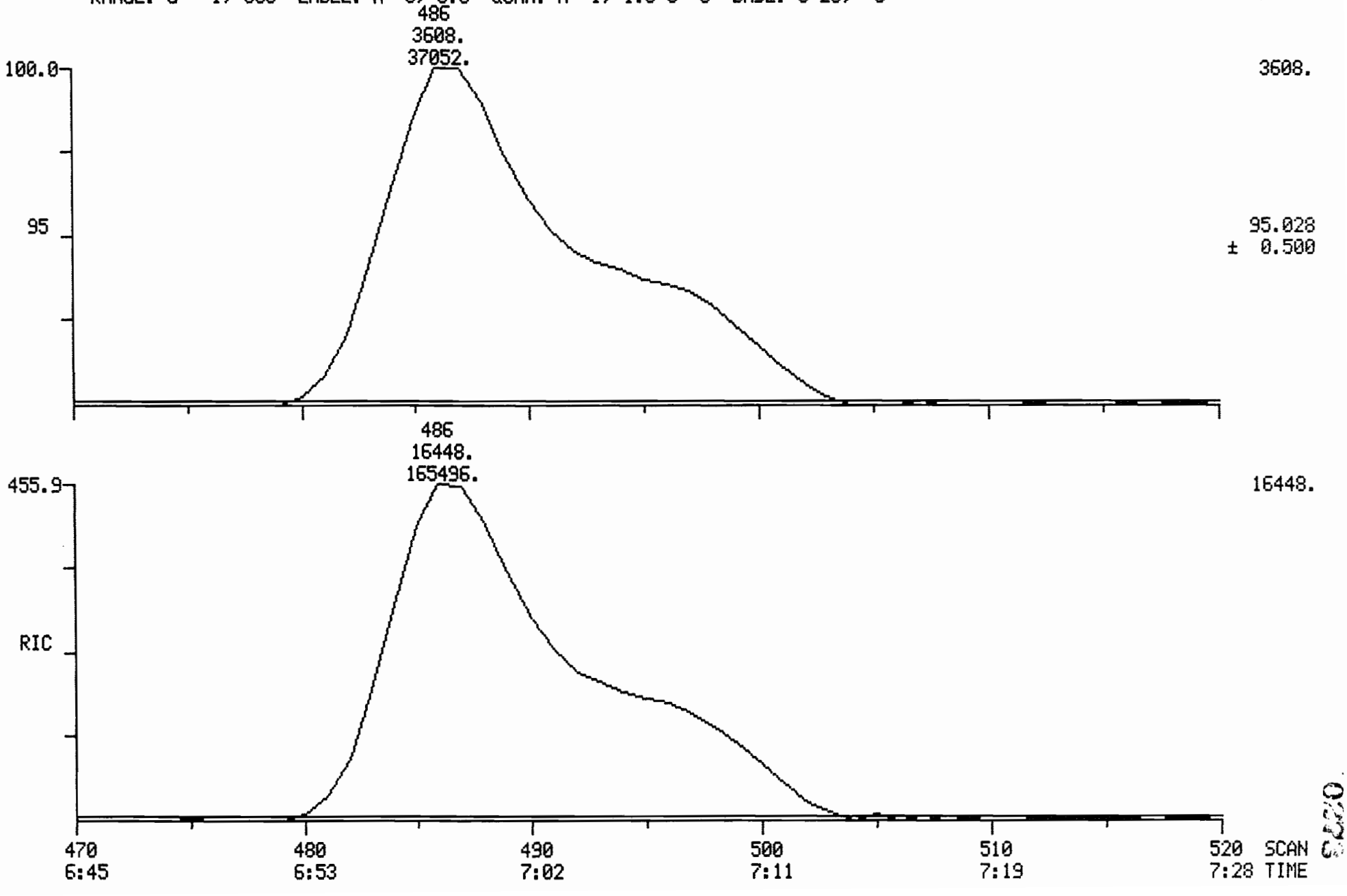


Mass List Data: K8695 # 486 Base m/z: 95
12/17/93 19:18:00 + 6:59 Cali: CALTAB # 3 RIC: 16064.
ple: 1217BFBK2
ds.: I50K
#485 to #487 averaged - #470

36 0.00 0. Minima Min Inten: 0.
177 Maxima # 0

Mass	% RA	Inten.
36	2.42	86.
37	8.20	291.
38	7.44	264.
39	1.30	46.
44	0.31	11.
47	0.39	14.
49	5.27	187.
50	25.25	896.
51	7.53	267.
57	2.76	98.
61	5.07	180.
62	4.62	164.
63	2.48	88.
68	10.57	375.
69	10.12	359.
73	4.48	159.
74	17.22	611.
75	52.71	1870.
76	4.57	162.
77	1.49	53.
78	0.51	18.
79	1.41	50.
81	1.41	50.
87	2.87	102.
88	2.79	99.
92	2.34	83.
93	3.55	126.
94	11.33	402.
95	100.00	3548.
96	6.96	247.
112	0.31	11.
146	0.68	24.
174	67.98	2412.
175	5.02	178.
176	67.31	2388.
177	4.17	148.

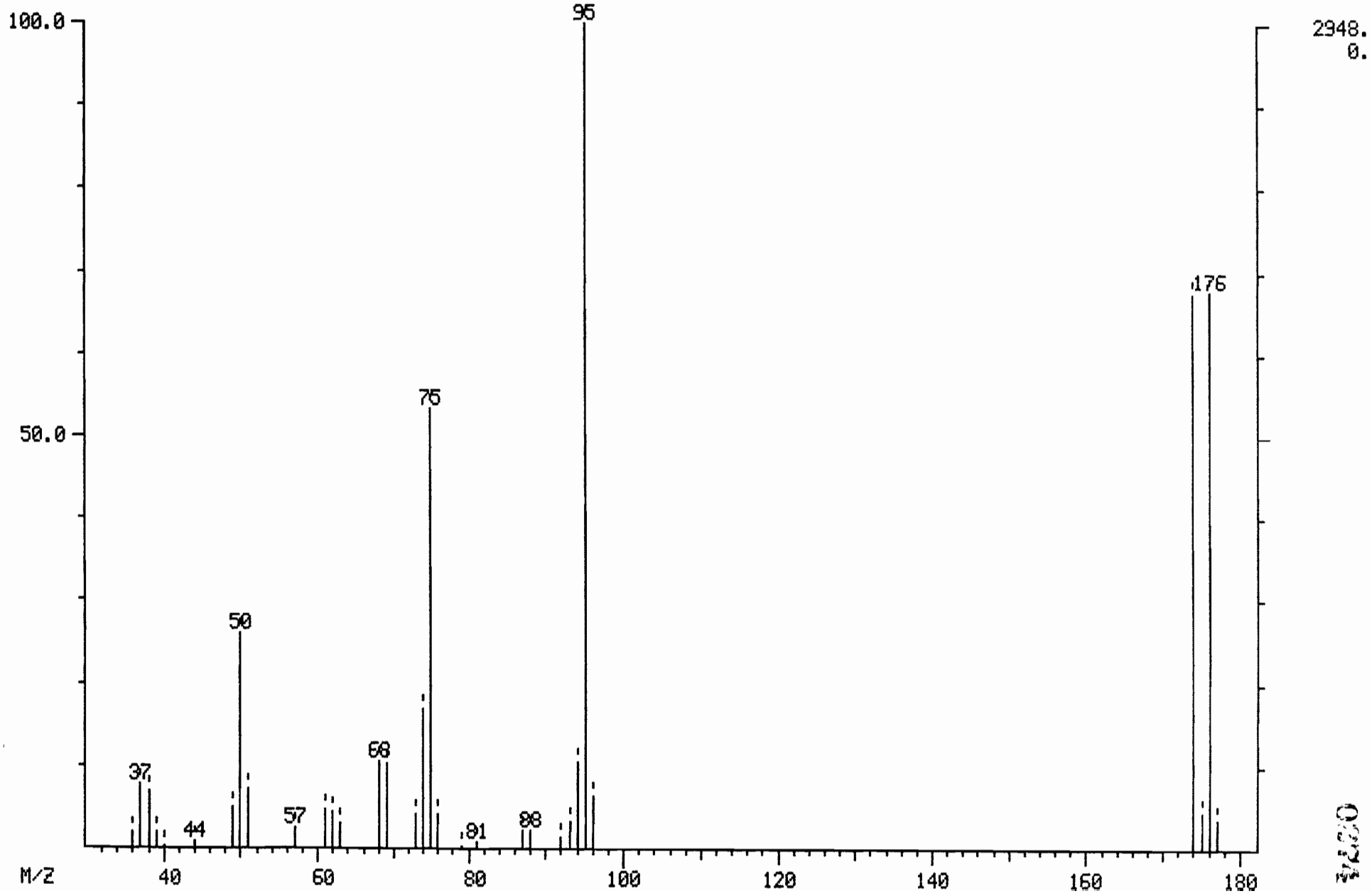
RIC+MASS CHROMATOGRAM DATA: K8695 #485 SCANS 470 TO 520
12/17/93 19:18:00 CALI: CALTAB #3
SAMPLE: 1217BFBK2
CONDS.: I50K
RANGE: G 1, 600 LABEL: N 3, 5.0 QUAN: A -1, 1.0 J 0 BASE: U 20, 3



MASS SPECTRUM
12/18/93 13:06:00 + 6:53
SAMPLE: 1218BFBK1
CONDS.: I50K
TEMP: 150 DEG. C
#478 TO #480 AVERAGED - #460

DATA: K8723 #479
CALI: CALTAB #3

BASE M/Z: 95
RIC: 13056.



Mass List
12/18/93 13:06:00 + 6:53
nple: 1218BFBK1
nds.: I50K
#478 to #480 averaged - #460

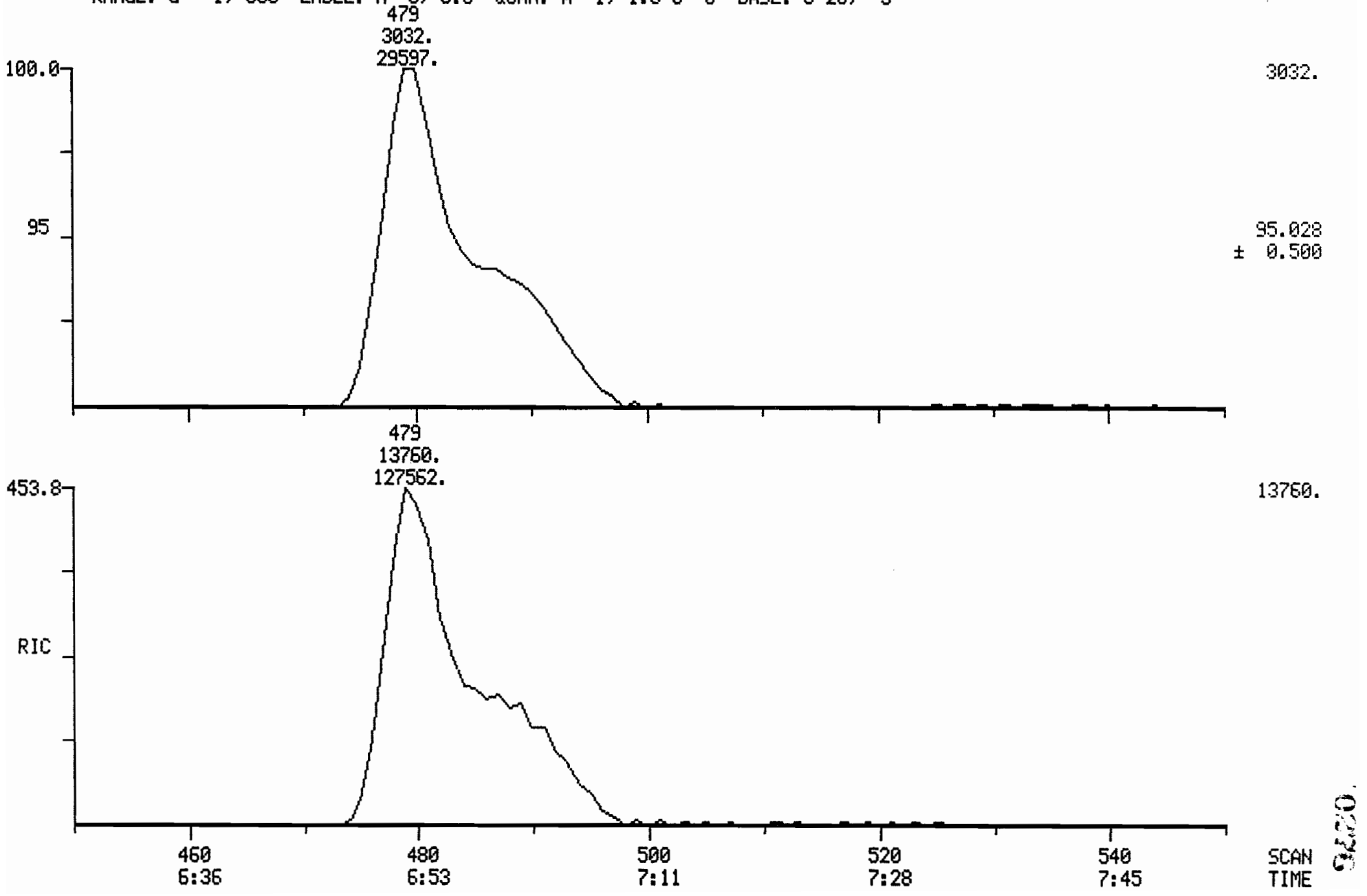
Data: K8723 # 479
Cali: CALTAB # 3

Base m/z: 95
RIC: 13056.

36 0.00 0. Minima Min Inten: 0.
177 Maxima # 0

Mass	% RA	Inten.
36	1.93	57.
37	7.84	231.
38	6.78	200.
39	1.97	58.
40	0.31	9.
44	0.92	27.
49	4.92	145.
50	26.02	767.
51	7.29	215.
57	2.54	75.
61	4.68	138.
62	4.34	128.
63	3.05	90.
68	10.62	313.
69	10.14	299.
73	4.04	119.
74	16.72	493.
75	53.26	1570.
76	4.17	123.
79	0.41	12.
81	0.95	28.
87	2.20	65.
88	2.27	67.
92	1.29	38.
93	3.39	100.
94	10.52	310.
95	100.00	2948.
96	6.48	191.
174	67.50	1990.
175	4.51	133.
176	67.77	1998.
177	3.66	108.

RIC+MASS CHROMATOGRAM DATA: K8723 #478 SCANS 450 TO 550
12/18/93 13:06:00 CALI: CALTAB #3
SAMPLE: 1218BFBK1
CONDS.: I50K
RANGE: G 1, 563 LABEL: N 3, 5.0 QUAN: A -1, 1.0 J 0 BASE: U 20, 3



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

VBLK22

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AM003825

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8698

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/17/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	2	J
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	0.5	J
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	10	U
108-90-7	Chlorobenzene	2	J
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

VBLK22

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AM003825

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8698

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/17/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

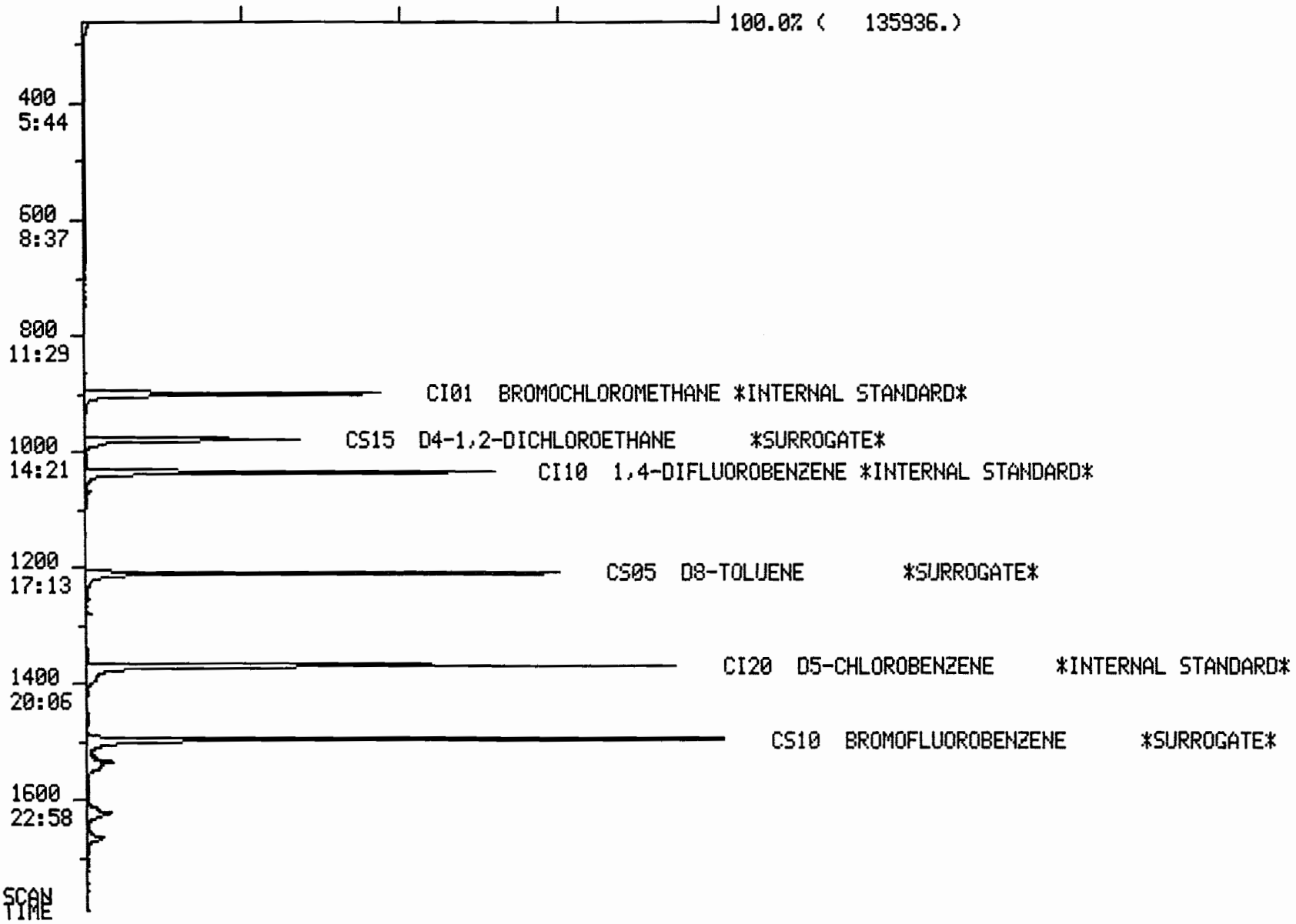
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

DATA FROM FILE: K8698 SCANS 260 TO 1790 ACQUIRED: 12/17/93 20:37:00
CALI: K8698 #3

SAMPLE: VBLK 22
CONDS.: I50K



6270

Quantitation Report File: K8698

:a: K8698.TI
/17/93 20:37:00
Sample: VBLK 22
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
	C050	1,1-DICHLOROETHANE
	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
	C210	4-METHYL-2-PENTANONE
	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

SS Edit 12/15/93

No	Name
3	C246 M,P-XYLENE
7	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	897	12:53	1	1.000	A BB	41707.	250.000 NG	16.22
2	114	1032	14:49	2	1.000	A BB	161428.	250.000 NG	16.22
3	117	1367	19:37	3	1.000	A BB	145811.	250.000 NG	16.22
4	65	976	14:01	1	1.088	A BB	88731.	258.168 NG	16.75
5	98	1207	17:20	3	0.883	A BB	152545.	241.788 NG	15.69
6	95	1493	21:26	3	1.092	A BB	132609.	245.380 NG	15.92
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
	NOT FOUND								
	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	78	985	14:08	2	0.954	A BB	4501.	7.501 NG	0.49
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	164	1277	18:20	3	0.934	A BB	678.	2.452 NG	0.16
43	NOT FOUND								
44	NOT FOUND								
45	112	1370	19:40	3	1.002	A BB	4612.	7.725 NG	0.50
	NOT FOUND								
	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	146	1612	23:08	3	1.179	A BV	2411.	4.353 NG	0.28

MT Reviewed

MTM 12/28/93

Quantitation Report File: K8698

ta: K8698.TI
/17/93 20:37:00
Sample: VBLK 22
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

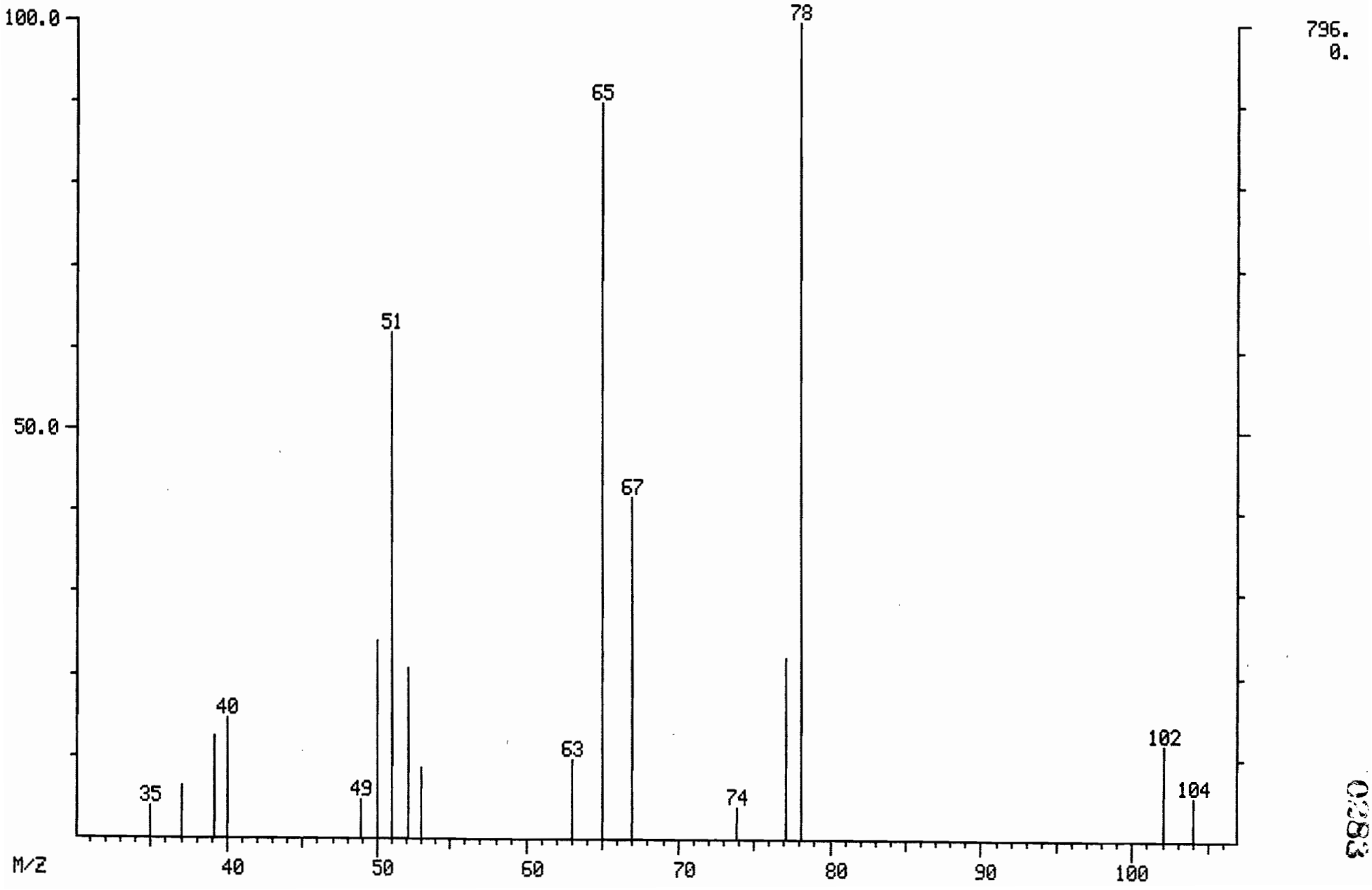
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	146	1620	23:15	3	1.185	A VB	8012.	13.766 NG	0.91
52	146	1662	23:51	3	1.216	A BB	5067.	10.294 NG	0.67

MASS SPECTRUM
12/17/93 20:37:00 + 14:08
SAMPLE: VBLK 22
CONDS.: I50K
TEMP: 101 DEG. C

DATA: K8698 #985
CALI: K8698 #3

BASE M/Z: 78
RIC: 3516.

NAME: C165 BENZENE

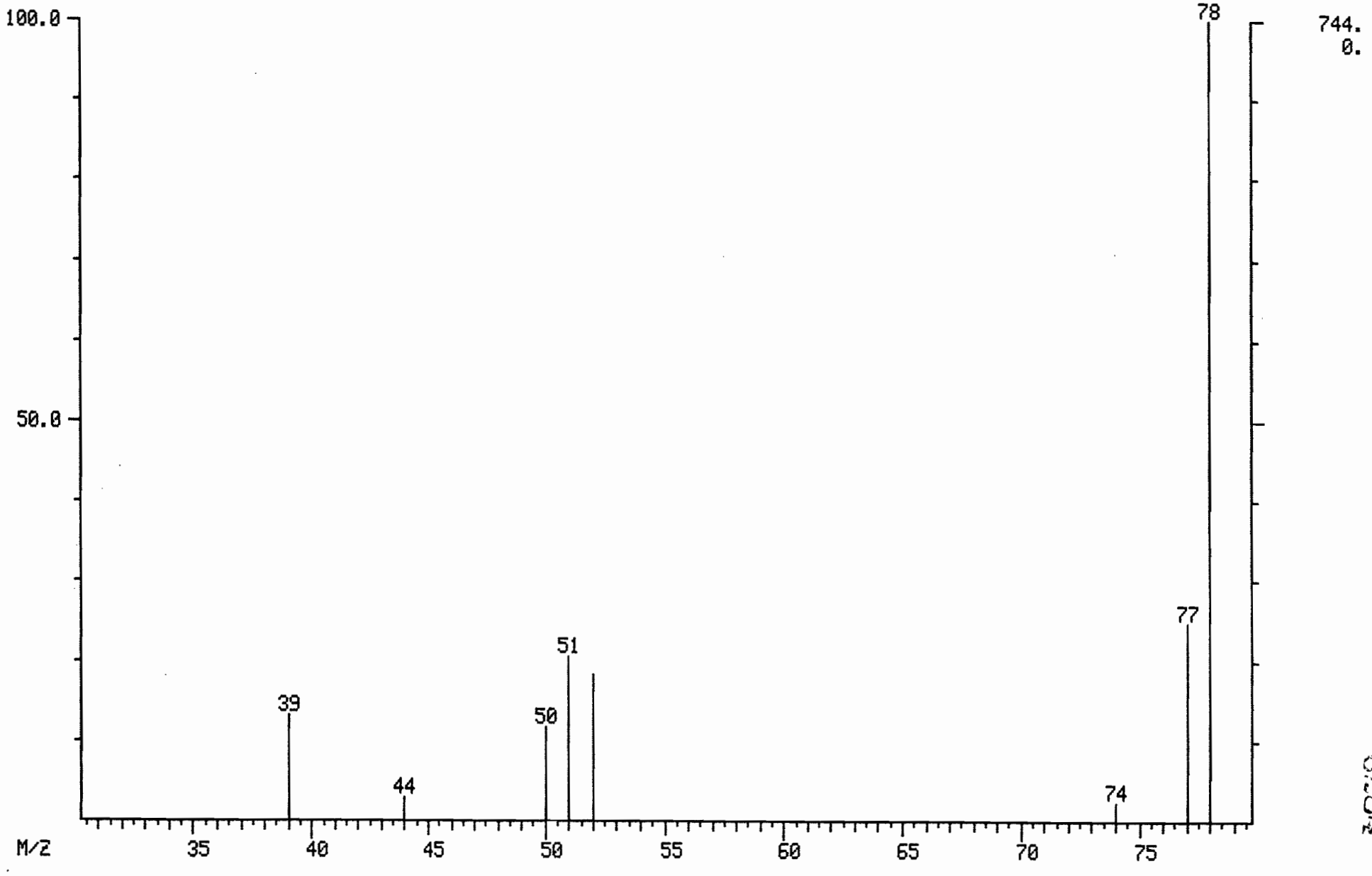


0283

MASS SPECTRUM
12/17/93 20:37:00 + 14:08
SAMPLE: VBLK 22
CONDS.: I50K
TEMP: 101 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C165 BENZENE

DATA: K8698 #985
CALI: K8698 #3

BASE M/Z: 78
RIC: 1436.



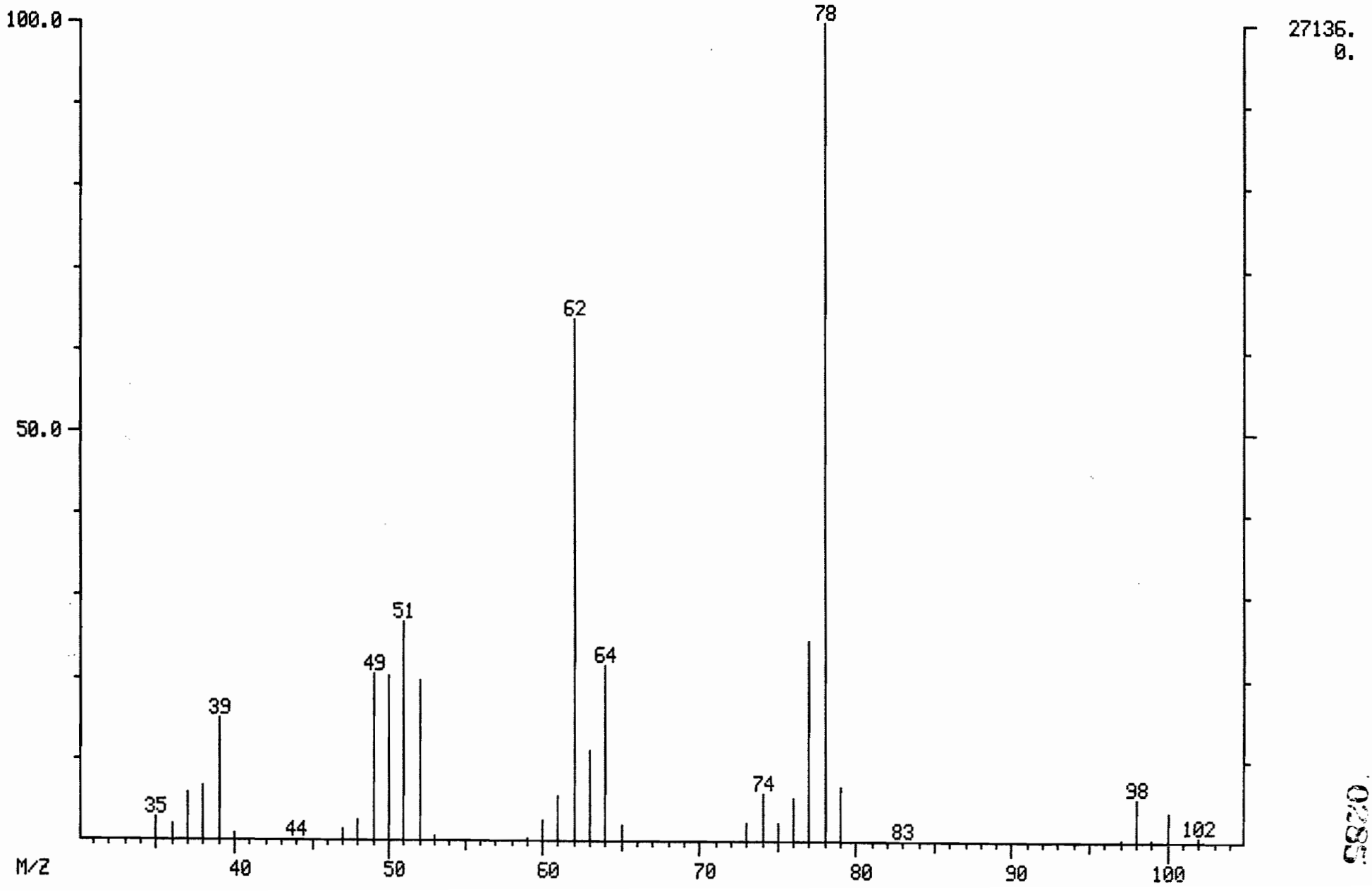
0284

MASS SPECTRUM
12/17/93 19:29:00 + 14:08
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-410 DEG. C

DATA: K8696 #985
ENHANCED (S 15B 2N 0T)

BASE M/Z: 78
RIC: 105216.

NAME: C165 BENZENE

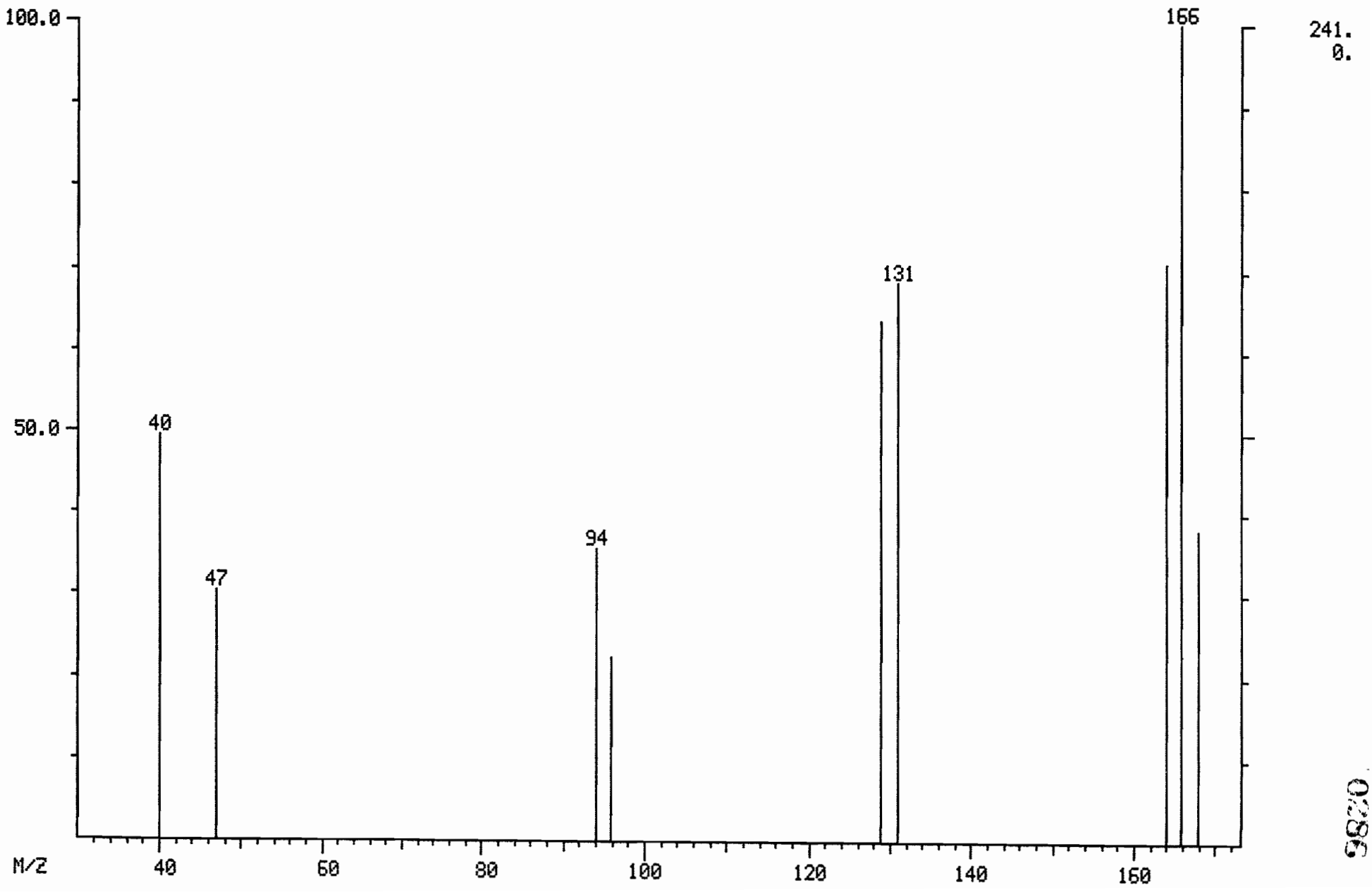


C8620

MASS SPECTRUM
12/17/93 20:37:00 + 18:20
SAMPLE: VBLK 22
CONDS.: I50K
TEMP: 143 DEG. C
NAME: C220 TETRACHLOROETHENE

DATA: K8698 #1277
CALI: K8698 #3

BASE M/Z: 166
RIC: 1156.

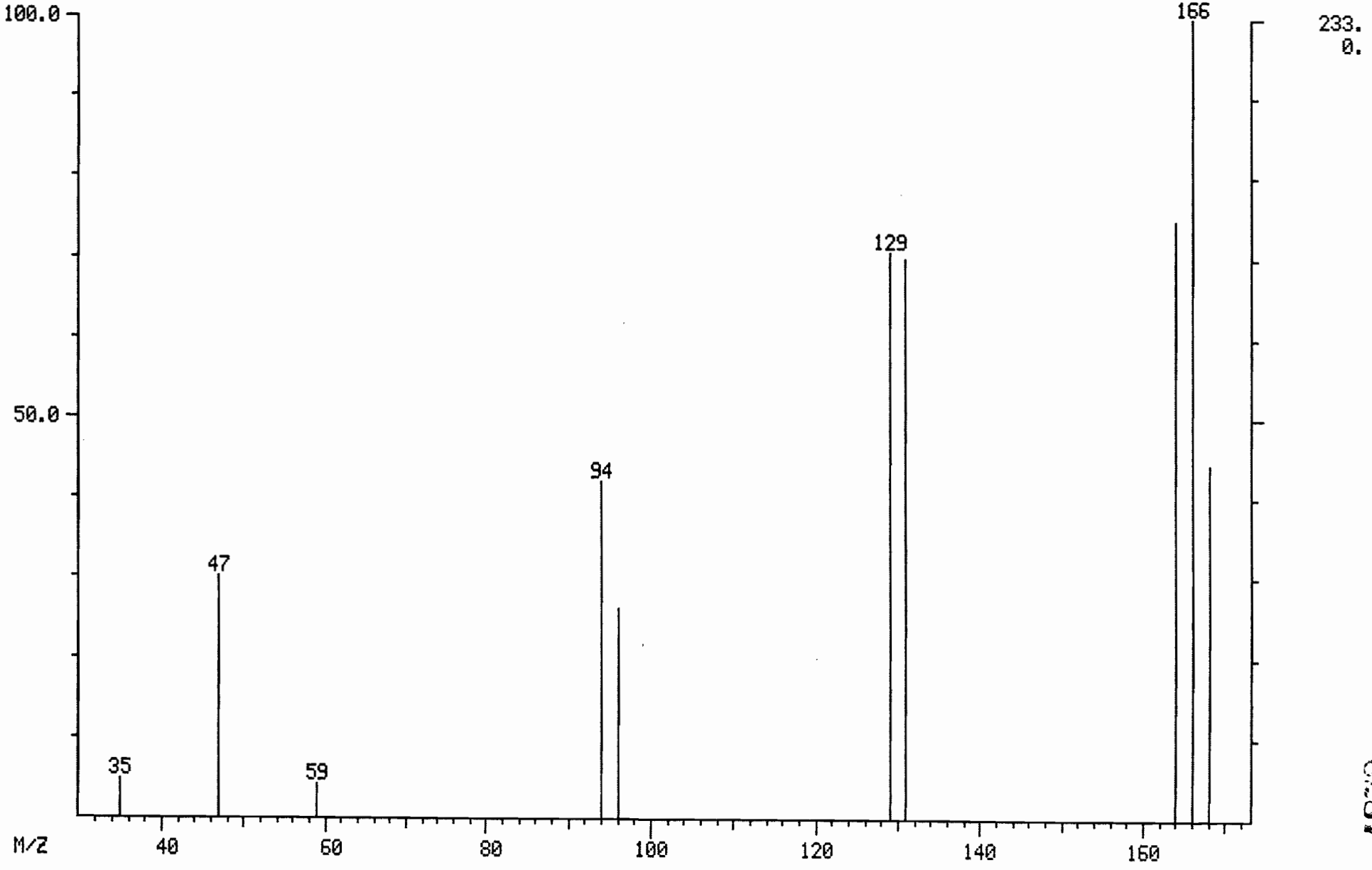


9820

MASS SPECTRUM
12/17/93 20:37:00 + 18:20
SAMPLE: VBLK 22
CONDS.: I50K
TEMP: 143 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C220 TETRACHLOROETHENE

DATA: K8698 #1277
CALI: K8698 #3

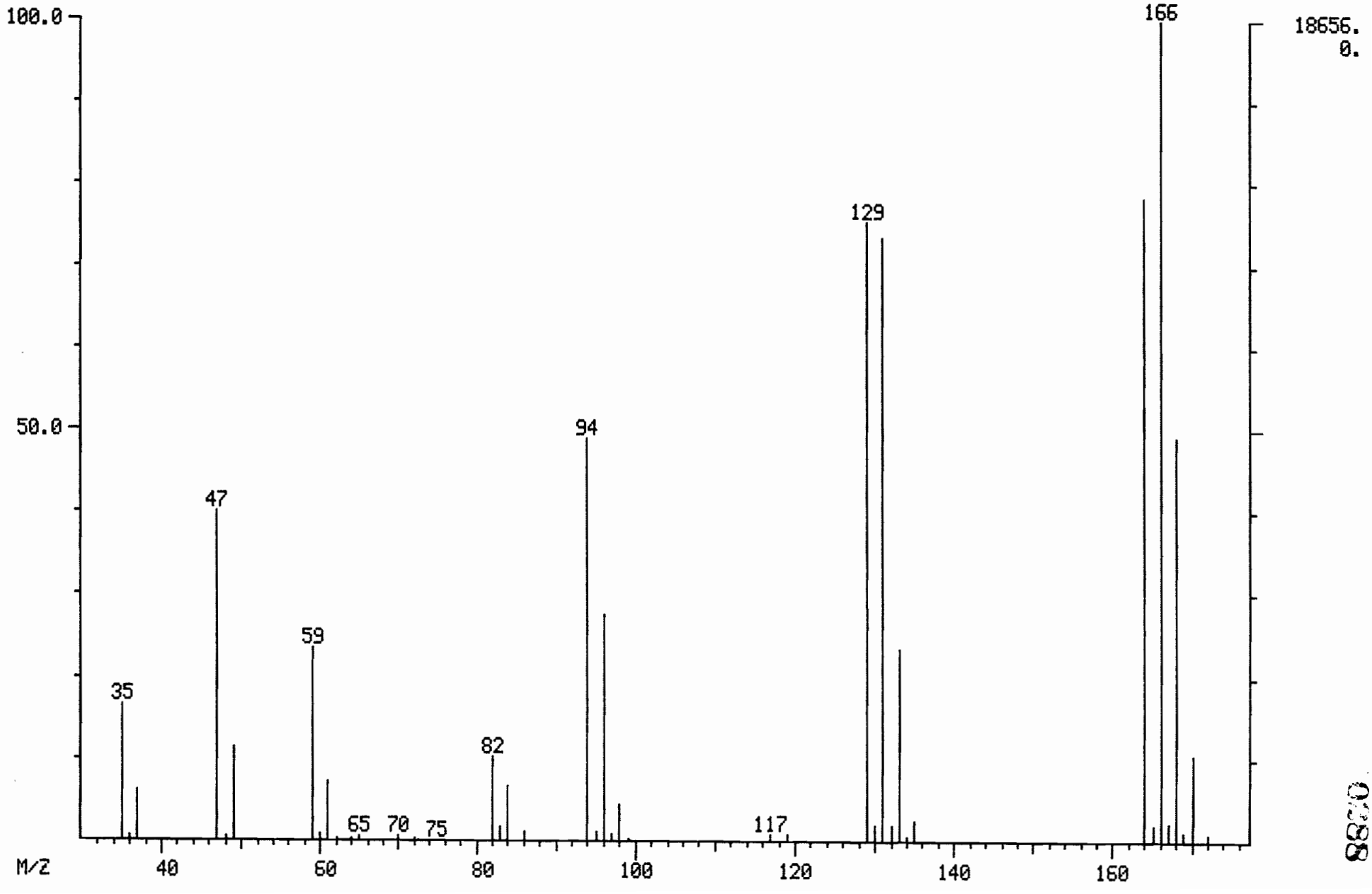
BASE M/Z: 166
RIC: 1088.



MASS SPECTRUM
12/17/93 19:29:00 + 18:20
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-368 DEG. C
NAME: C220 TETRACHLOROETHENE

DATA: K8696 #1277
ENHANCED (S 15B 2N 0T)

BASE M/Z: 166
RIC: 118784.



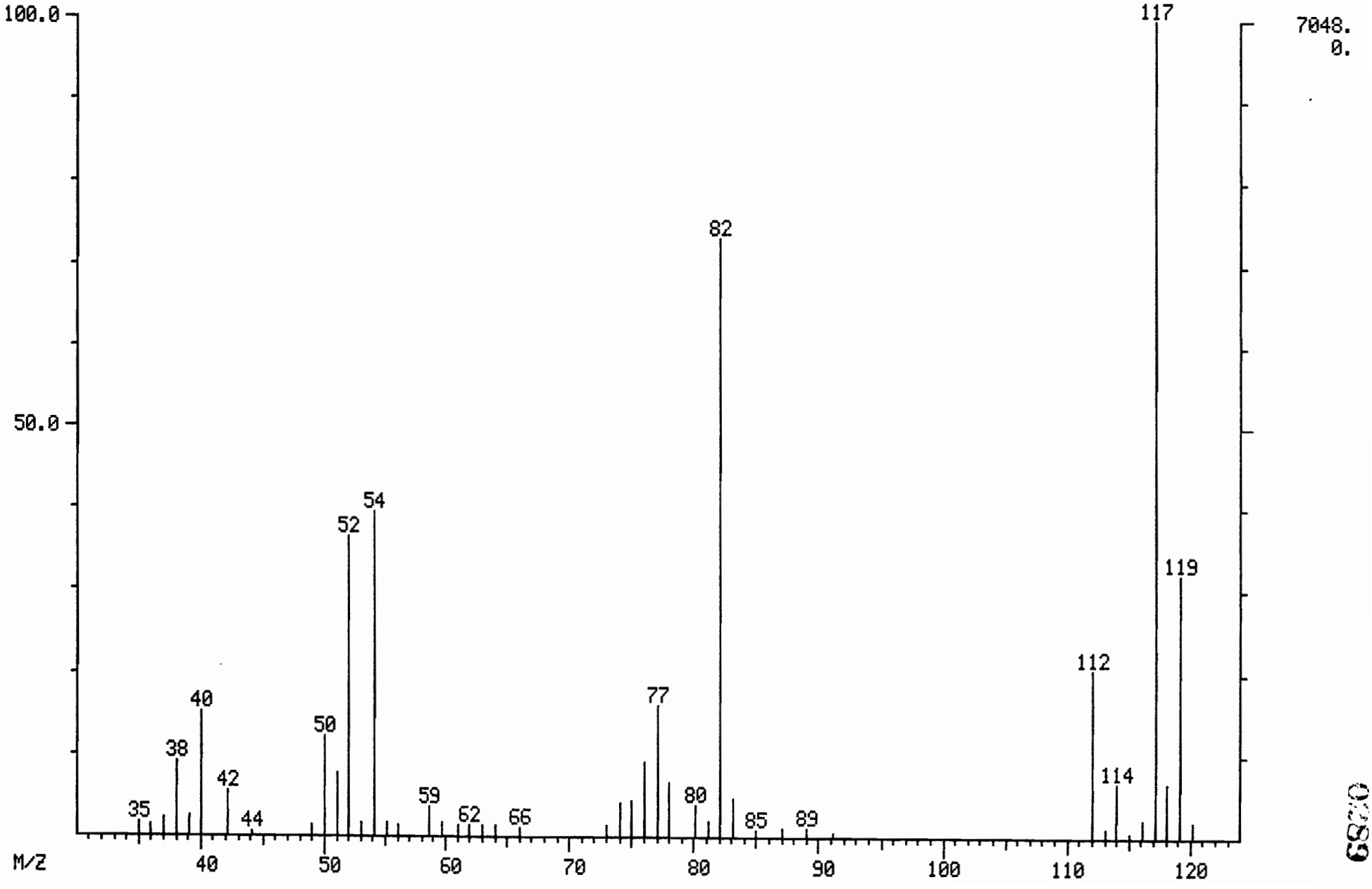
8870

MASS SPECTRUM
12/17/93 20:37:00 + 19:40
SAMPLE: VBLK 22
CONDS.: I50K
TEMP: 156 DEG. C

DATA: K8698 #1370
CALI: K8698 #3

BASE M/Z: 117
RIC: 31872.

NAME: C235 CHLOROBENZENE

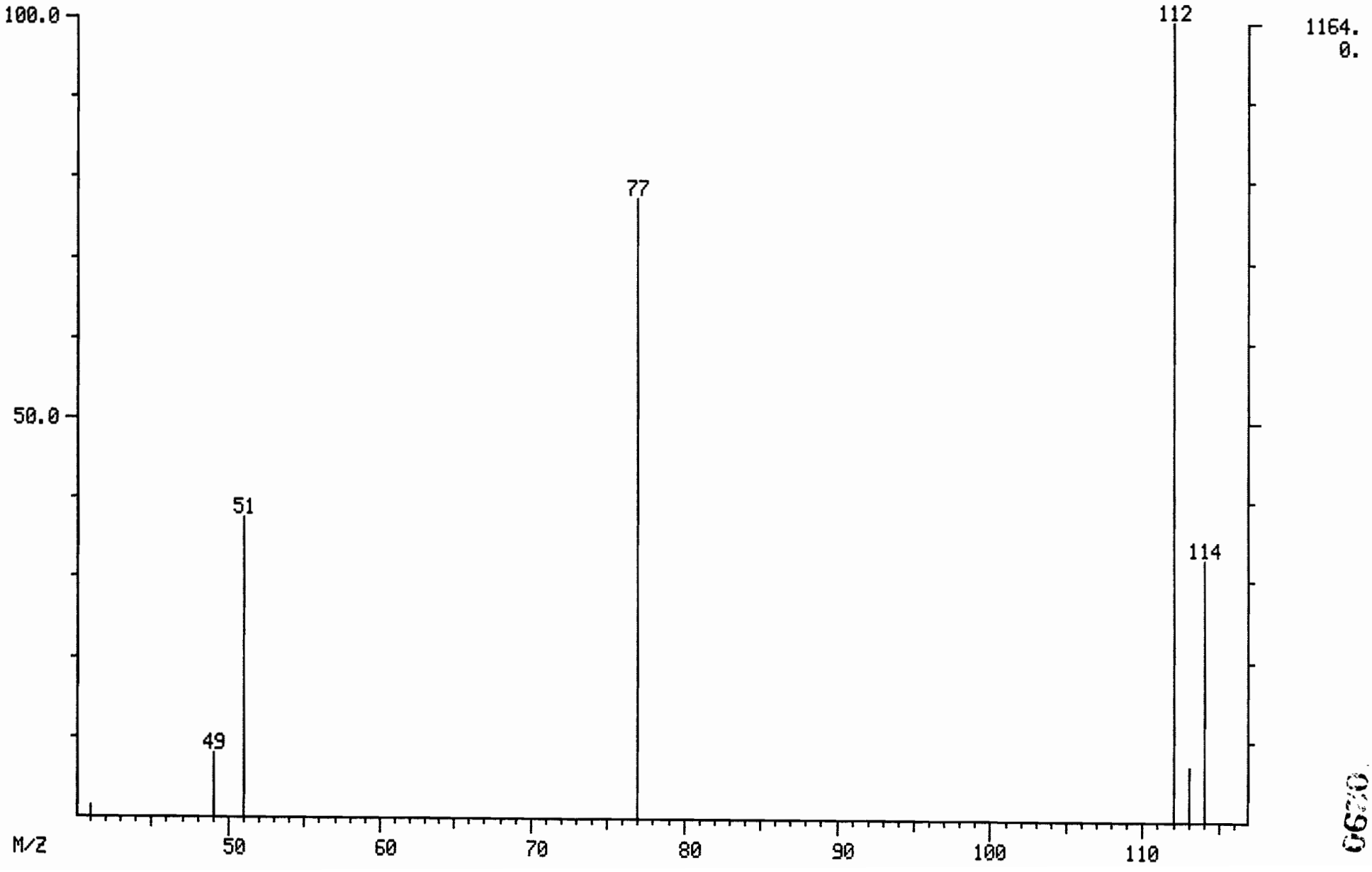


6820

MASS SPECTRUM
12/17/93 20:37:00 + 19:40
SAMPLE: VBLK 22
CONDS.: I50K
TEMP: 156 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C235 CHLOROBENZENE

DATA: K8698 #1370
CALI: K8698 #3

BASE M/Z: 112
RIC: 3076.



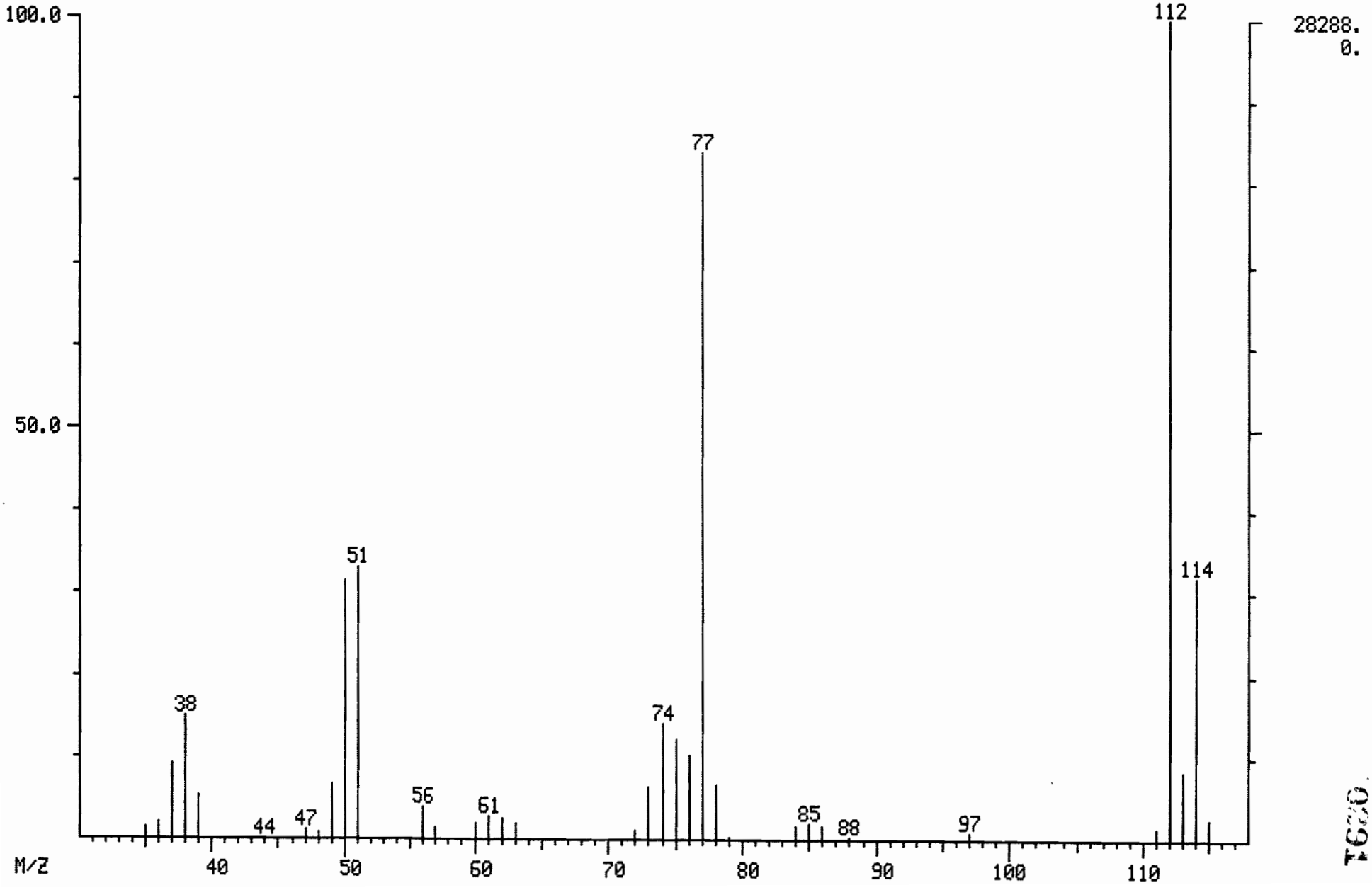
0630

MASS SPECTRUM
12/17/93 19:29:00 + 19:40
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-355 DEG. C

DATA: K8696 #1370
ENHANCED (S 15B 2N 0T)

BASE M/Z: 112
RIC: 114560.

NAME: C235 CHLOROBENZENE



T670

INTERNAL STANDARD QUANTITATION REPORT: AMOUNTS BASED ON AREA

ntitation Report File: K8698

Data: K8698.TI
12/17/93 20:37:00
Sample: VBLK 22
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	0-00-0	CI10 1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	0-00-0	CI20 D5-CHLOROBENZENE *INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	897	12:53	1	1.000	A BB	330516.	250.000 NG	33.33
2	TOT	1033	14:50	2	1.000	A BB	414678.	250.000 NG	33.33
3	TOT	1367	19:37	3	1.000	A BB	489210.	250.000 NG	33.33

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
VBLK23

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AM003826

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8726

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	10	U
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	10	U
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	10	U
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	0.3	J
108-90-7	Chlorobenzene	10	U
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

1E

EPA SAMPLE NO.

VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

VBLK23

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AM003826

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8726

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/18/93

GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

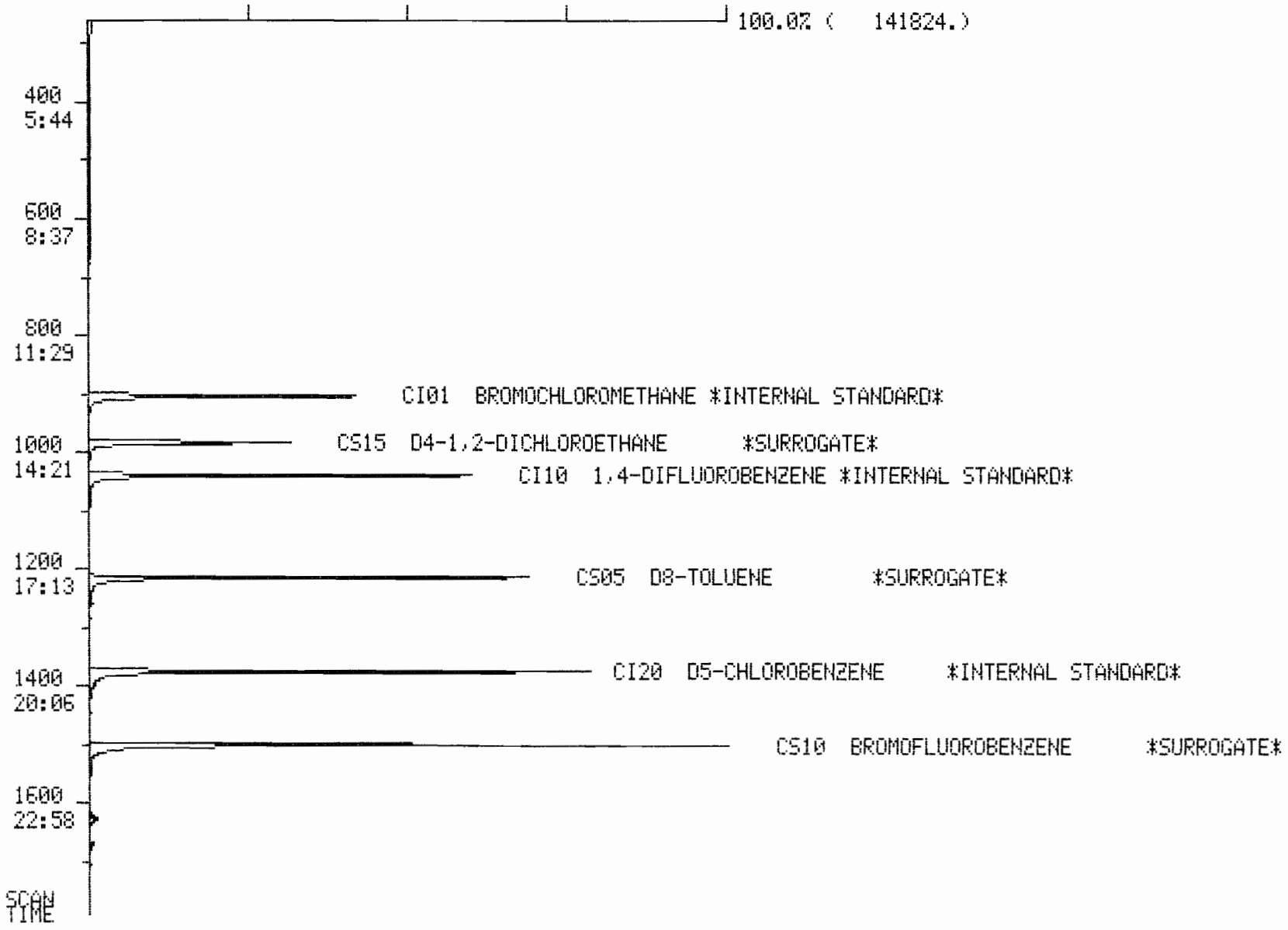
Number TICs found: 0

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

DATA FROM FILE: K8726 SCANS 260 TO 1790 ACQUIRED: 12/18/93 14:27:00
CALI: K8726 #3

SAMPLE: VBLK23
CONDS.: I50K



Quantitation Report File: K8726

ta: K8726.TI
/18/93 14:27:00
Sample: VBLK23
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
5	C050	1,1-DICHLOROETHANE
6	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
41	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

SS
ED
RJE
TIC
12/20/93

No	Name
3	C246 M,P-XYLENE
7	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	901	12:56	1	1.000	A BB	39190.	250.000 NG	16.35
2	114	1037	14:53	2	1.000	A BB	147799.	250.000 NG	16.35
3	117	1372	19:42	3	1.000	A BB	132948.	250.000 NG	16.35
4	65	981	14:05	1	1.089	A BB	87301.	251.565 NG	16.45
5	98	1212	17:24	3	0.883	A BB	140956.	252.014 NG	16.48
6	95	1498	21:30	3	1.092	A BB	125051.	258.787 NG	16.92
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	NOT FOUND								
16	NOT FOUND								
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35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	91	1220	17:31	3	0.889	A BB	868.	1.472 NG	0.10
45	112	1376	19:45	3	1.003	A BB	1281.	2.633 NG	0.17
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	146	1618	23:14	3	1.179	A BV	1436.	2.994 NG	0.20

Not Reqd
MTM 12/28/93

Quantitation Report File: K8726

ta: K8726.TI
/18/93 14:27:00
Sample: VBLK23
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
~~51~~	~~146~~	~~1626~~	~~23:20~~	~~3~~	~~1.185~~	~~A VB~~	~~3065.~~	~~5.775 NG~~	~~0.38~~
~~52~~	~~146~~	~~1668~~	~~23:57~~	~~3~~	~~1.216~~	~~A BB~~	~~2198.~~	~~4.596 NG~~	~~0.30~~

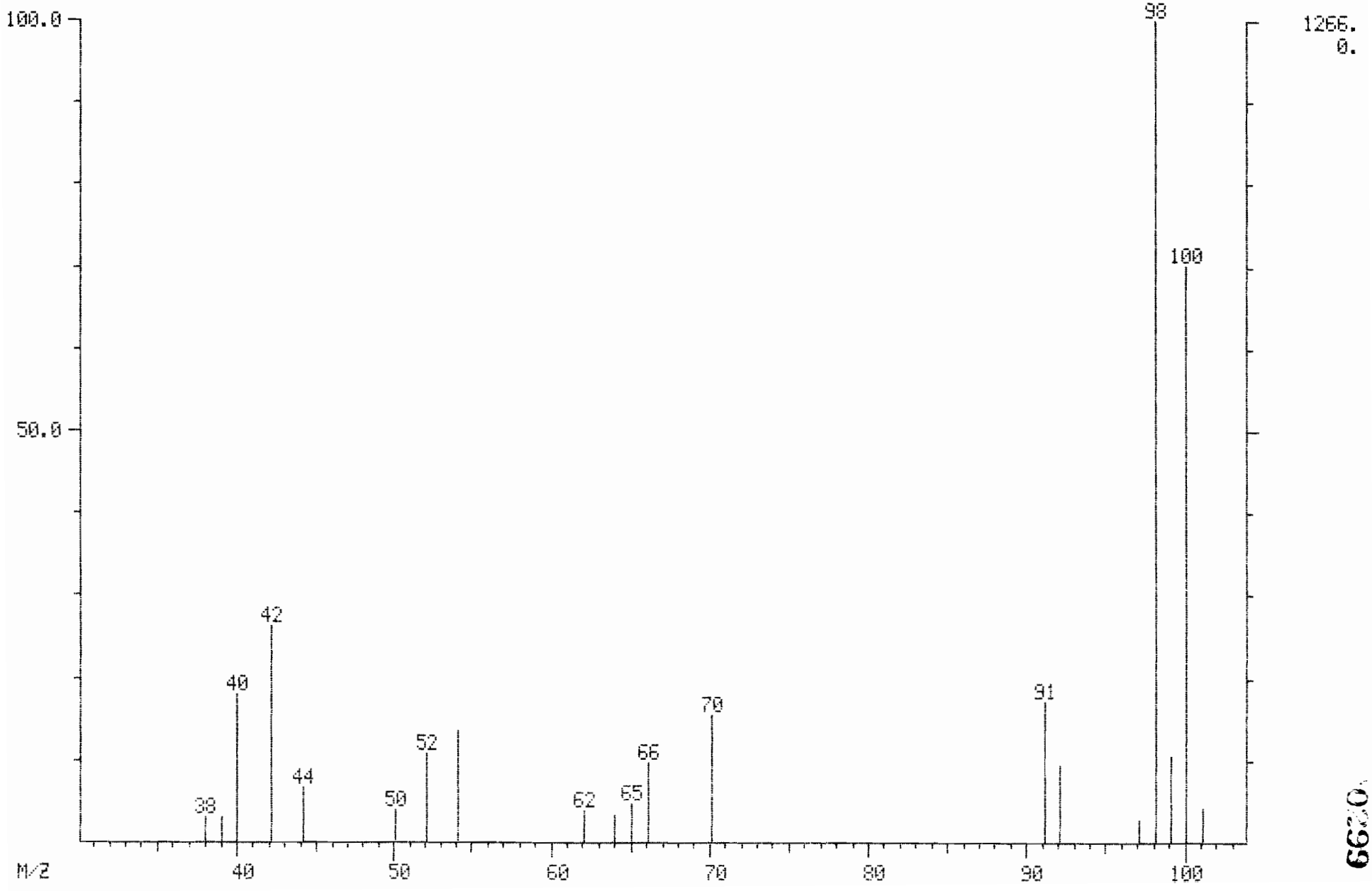
NOT REQUIRED

MASS SPECTRUM
12/18/93 14:27:00 + 17:31
SAMPLE: VBLK23
CONDS.: I50K
TEMP: 134 DEG. C

DATA: K8726 #1220
CALI: K8726 #3

BASE M/Z: 98
RIC: 4264.

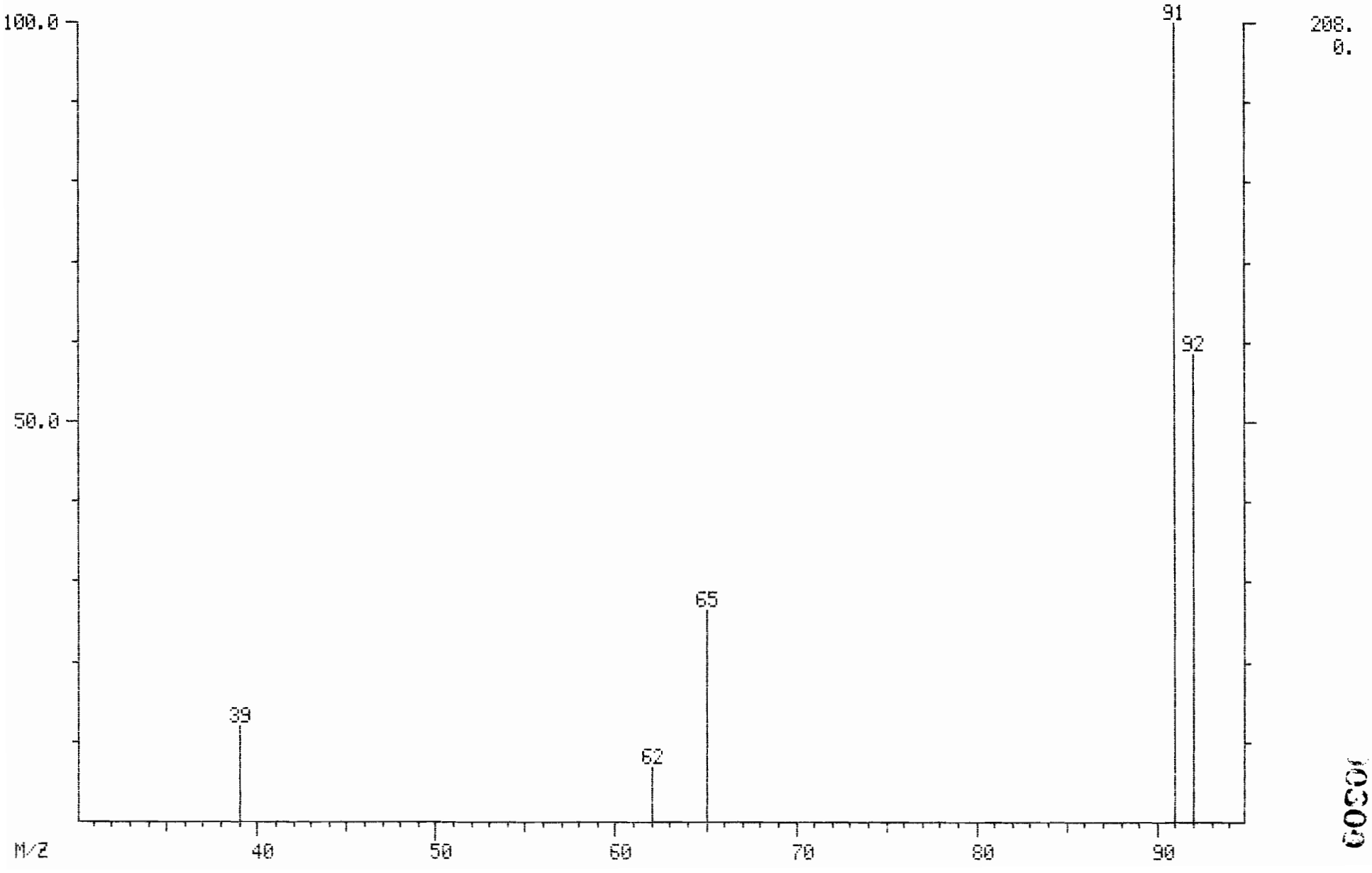
NAME: C230 TOLUENE



MASS SPECTRUM
12/18/93 14:27:00 + 17:31
SAMPLE: VBLK23
CONDS.: I50K
TEMP: 134 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C230 TOLUENE

DATA: K8726 #1220
CALI: K8726 #3

BASE M/Z: 91
RIC: 424.



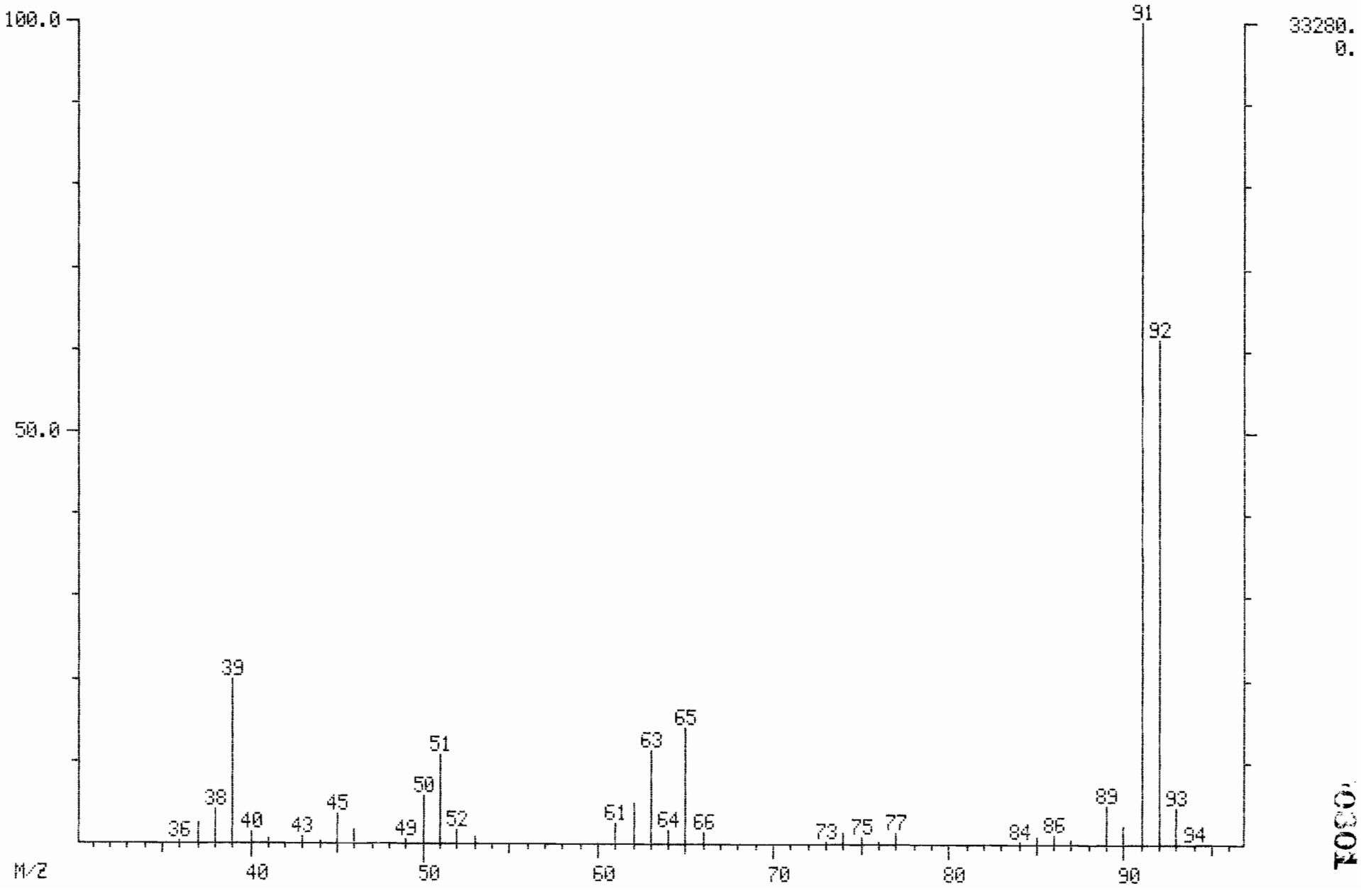
C230

MASS SPECTRUM
12/18/93 13:17:00 + 17:29
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-377 DEG. C

DATA: K8724 #1218
ENHANCED (S 15B 2N 0T)

BASE M/Z: 91
RIC: 90240.

NAME: C230 TOLUENE



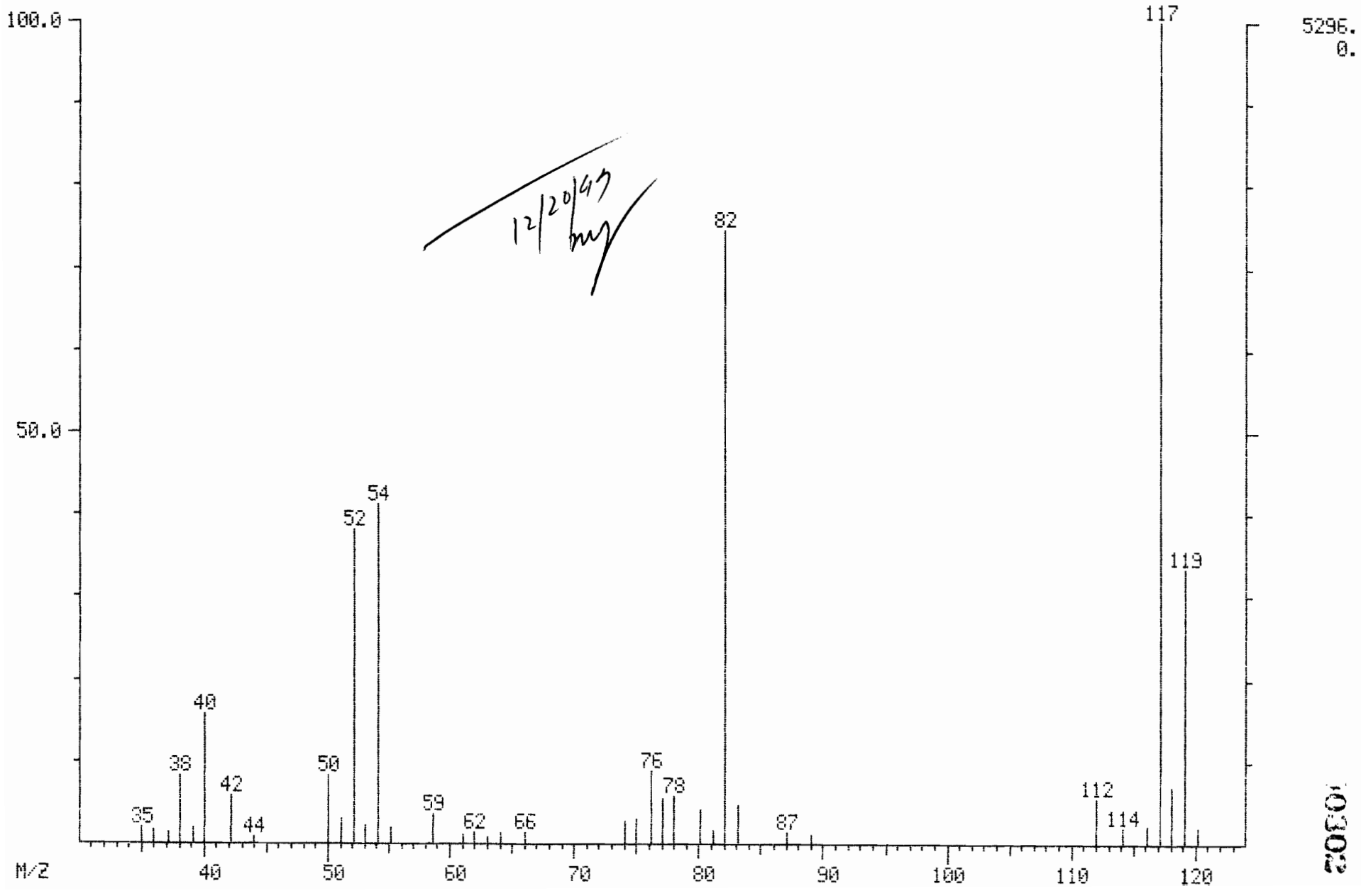
T0500

MASS SPECTRUM
12/18/93 14:27:00 + 19:45
SAMPLE: VBLK23
CONDS.: I50K
TEMP: 157 DEG. C

DATA: K8726 #1376
CALI: K8726 #3

BASE M/Z: 117
RIC: 21568.

NAME: C235 CHLOROBENZENE



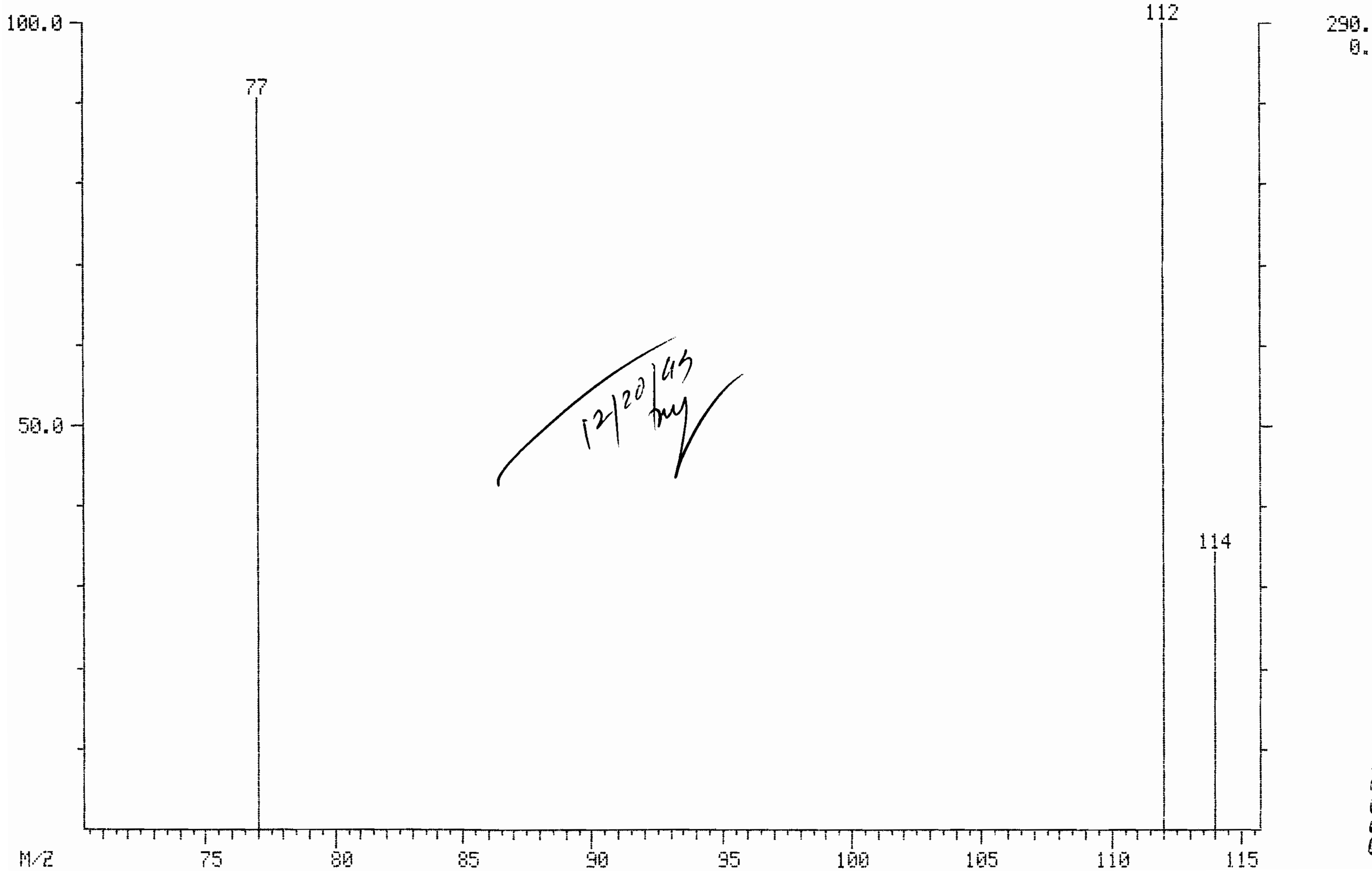
12/20/93

20302

MASS SPECTRUM
12/18/93 14:27:00 + 19:45
SAMPLE: VBLK23
CONDS.: I50K
TEMP: 157 DEG. C
ENHANCED (S 15B 2N 0T)NAME: C235 CHLOROBENZENE

DATA: K8726 #1376
CALI: K8726 #3

BASE M/Z: 112
RIC: 653.



12/20/93 [initials]

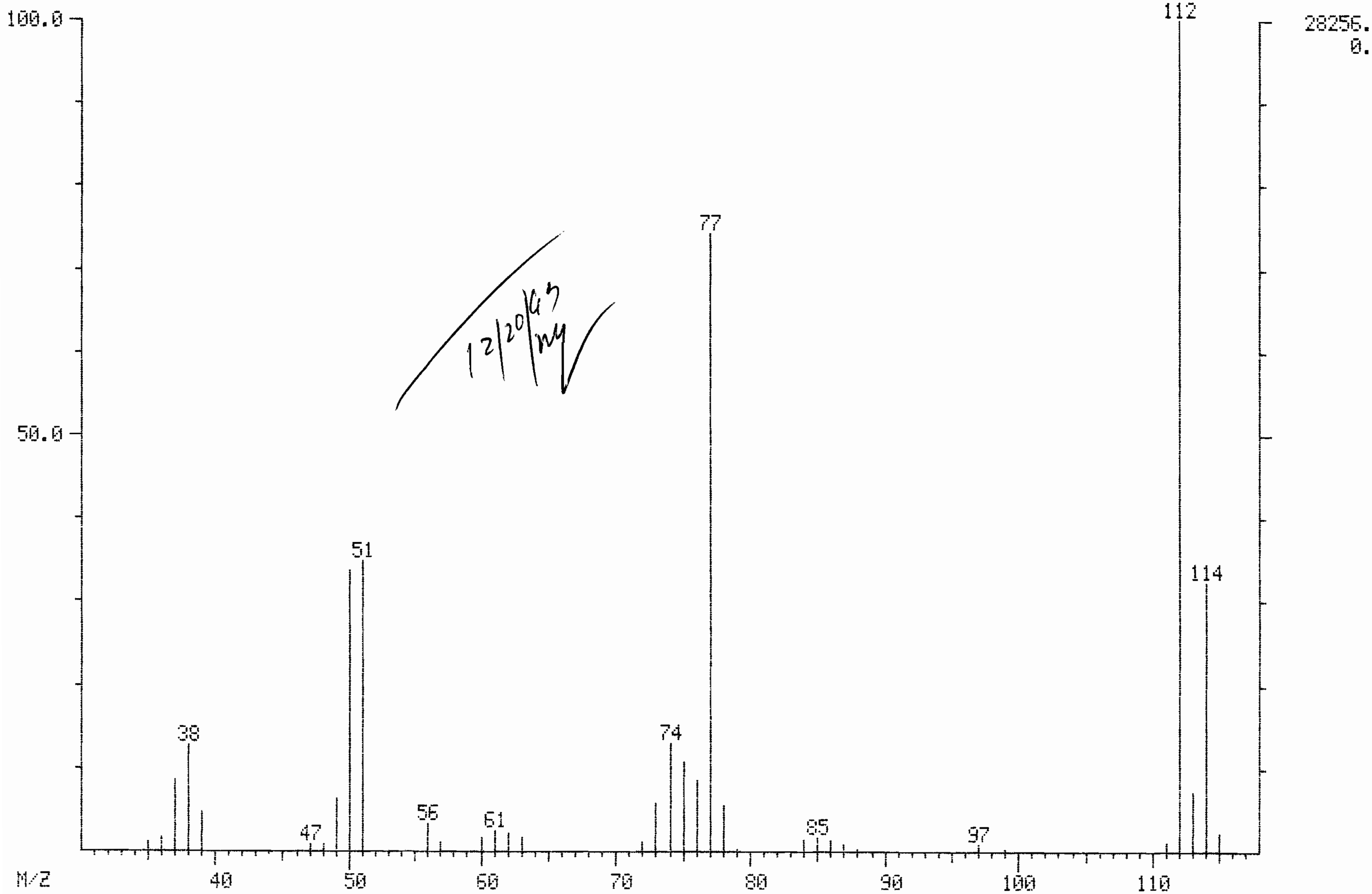
0308

MASS SPECTRUM
12/18/93 13:17:00 + 19:43
SAMPLE: VSTD050
CONDS.: I50K
TEMP:-355 DEG. C

DATA: K8724 #1374
ENHANCED (S 15B 2N 0T)

BASE M/Z: 112
RIC: 109568.

NAME: C235 CHLOROBENZENE



INTERNAL STANDARD QUANTITATION REPORT: AMOUNTS BASED ON AREA

antitation Report File: K8726

Data: K8726.TI
12/18/93 14:27:00
Sample: VBLK23
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: MY Acct. No.:

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

No	CAS #	Name
1	0-00-0	CI01 BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	0-00-0	CI10 1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	0-00-0	CI20 D5-CHLOROBENZENE *INTERNAL STANDARD*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	TOT	901	12:56	1	1.000	A BB	311640.	250.000 NG	33.33
2	TOT	1037	14:53	2	1.000	A BB	391630.	250.000 NG	33.33
3	TOT	1373	19:42	3	1.000	A BB	448025.	250.000 NG	33.33

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

MSBLANK

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053081

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8697

Level: (low/med) LOW Date Received: _____

% Moisture: not dec. _____ Date Analyzed: 12/17/93

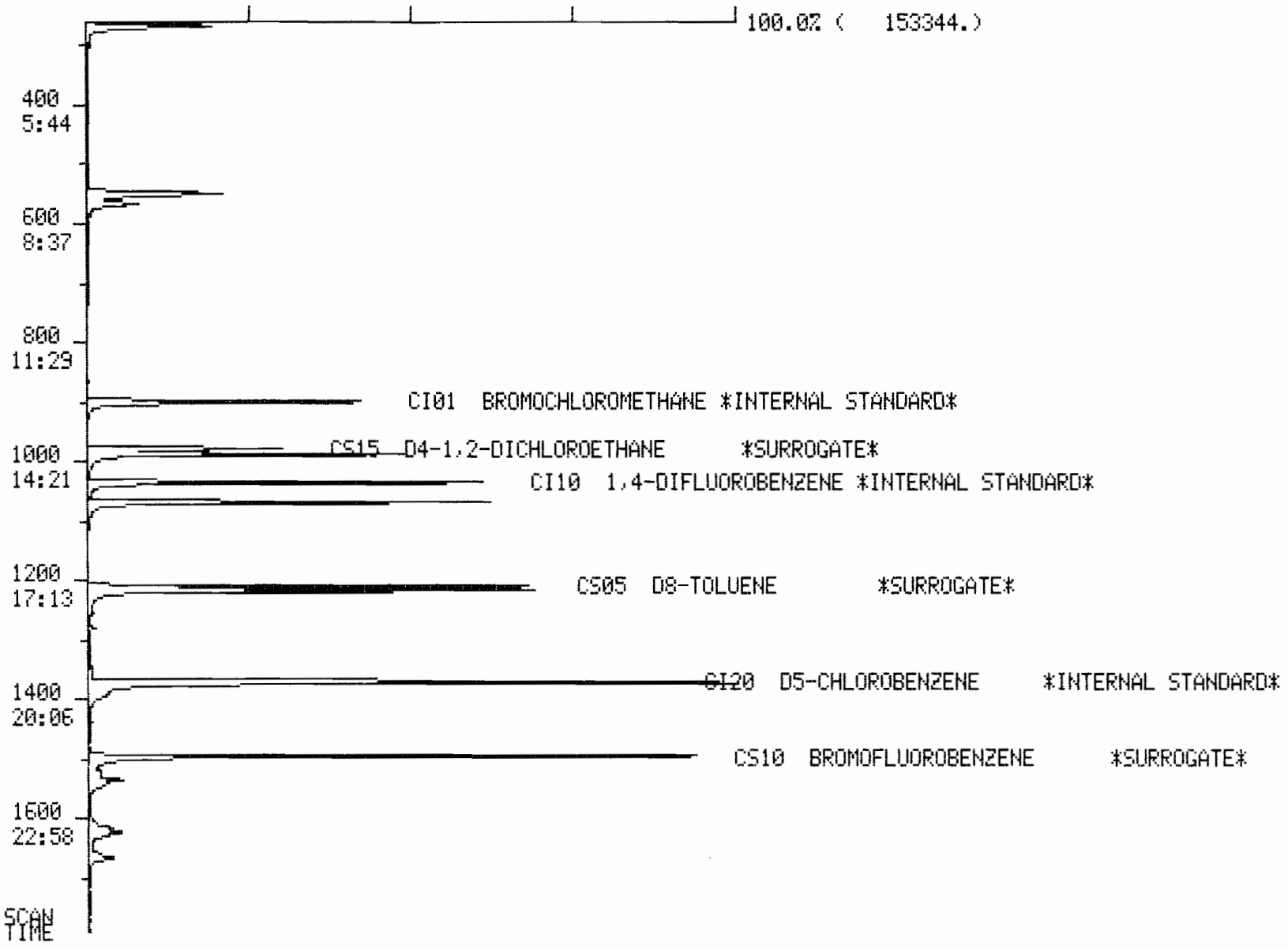
GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	1	J
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	10	U
75-00-3	Chloroethane	10	U
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	50	
75-34-3	1,1-Dichloroethane	10	U
540-59-0	1,2-Dichloroethene (total)	10	U
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	10	U
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	46	
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	50	B
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	0.8	BJ
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	49	
108-90-7	Chlorobenzene	47	B
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

DATA FROM FILE: K8697 SCANS 260 TO 1790 ACQUIRED: 12/17/93 20:10:00
CALI: K8697 #3

SAMPLE: AS053081 JOB4488 MSB
CONDS.: I50K



0307

Quantitation Report File: K8697

ta: K8697.TI
/17/93 20:10:00
Sample: AS053081 JOB4488 MSB
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
5	C050	1,1-DICHLOROETHANE
6	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
1	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

SS
Edit
12/18/93

No	Name
3	C246 M,P-XYLENE
7	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	897	12:53	1	1.000	A BB	43349.	250.000	NG	9.04
2	114	1033	14:50	2	1.000	A BB	165350.	250.000	NG	9.04
3	117	1367	19:37	3	1.000	A BB	145855.	250.000	NG	9.04
4	65	976	14:01	1	1.088	A BB	89165.	249.603	NG	9.02
5	98	1207	17:20	3	0.883	A BB	155161.	245.861	NG	8.89
6	95	1493	21:26	3	1.092	A BB	135109.	249.931	NG	9.03
7	50	299	4:18	1	0.333	A BB	1262.	5.022	NG	0.18
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
~~12~~	~~43~~	~~564~~	~~8:06~~	~~1~~	~~0.629~~	~~A BB~~	~~141.~~	~~2.898~~	~~NG~~	~~0.10~~
13	NOT FOUND									
14	96	546	7:50	1	0.609	A BB	44434.	249.046	NG	9.00 100
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	130	1066	15:18	2	1.032	A BB	73916.	232.064	NG	8.39 93
32	NOT FOUND									
33	NOT FOUND									
34	78	985	14:08	2	0.954	A BB	153314.	249.447	NG	9.02 100
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									
42	164	1277	18:20	3	0.934	A BB	1120.	4.049	NG	0.15
43	NOT FOUND									
44	91	1215	17:26	3	0.889	A BB	159805.	244.739	NG	8.85 98
45	112	1370	19:40	3	1.002	A BB	140872.	235.875	NG	8.52 94
46	NOT FOUND									
47	NOT FOUND									
48	NOT FOUND									
49	NOT FOUND									
~~50~~	~~146~~	~~1612~~	~~23:08~~	~~3~~	~~1.179~~	~~A BV~~	~~7525.~~	~~13.585~~	~~NG~~	~~0.49~~

NOT BBC

12/18/93

12/29/93

Quantitation Report File: K8697

ta: K8697.TI
/17/93 20:10:00
Sample: AS053081 JOB4488 MSB
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	146	1621	23:16	3	1.186	A VB	10813.	17.132 NG	0.62
52	146	1662	23:51	3	1.216	A BB	10290.	18.050 NG	0.65

Not Reviewed

12/18/93

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
184802MS

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053078MS

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8714

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. ____ Date Analyzed: 12/18/93

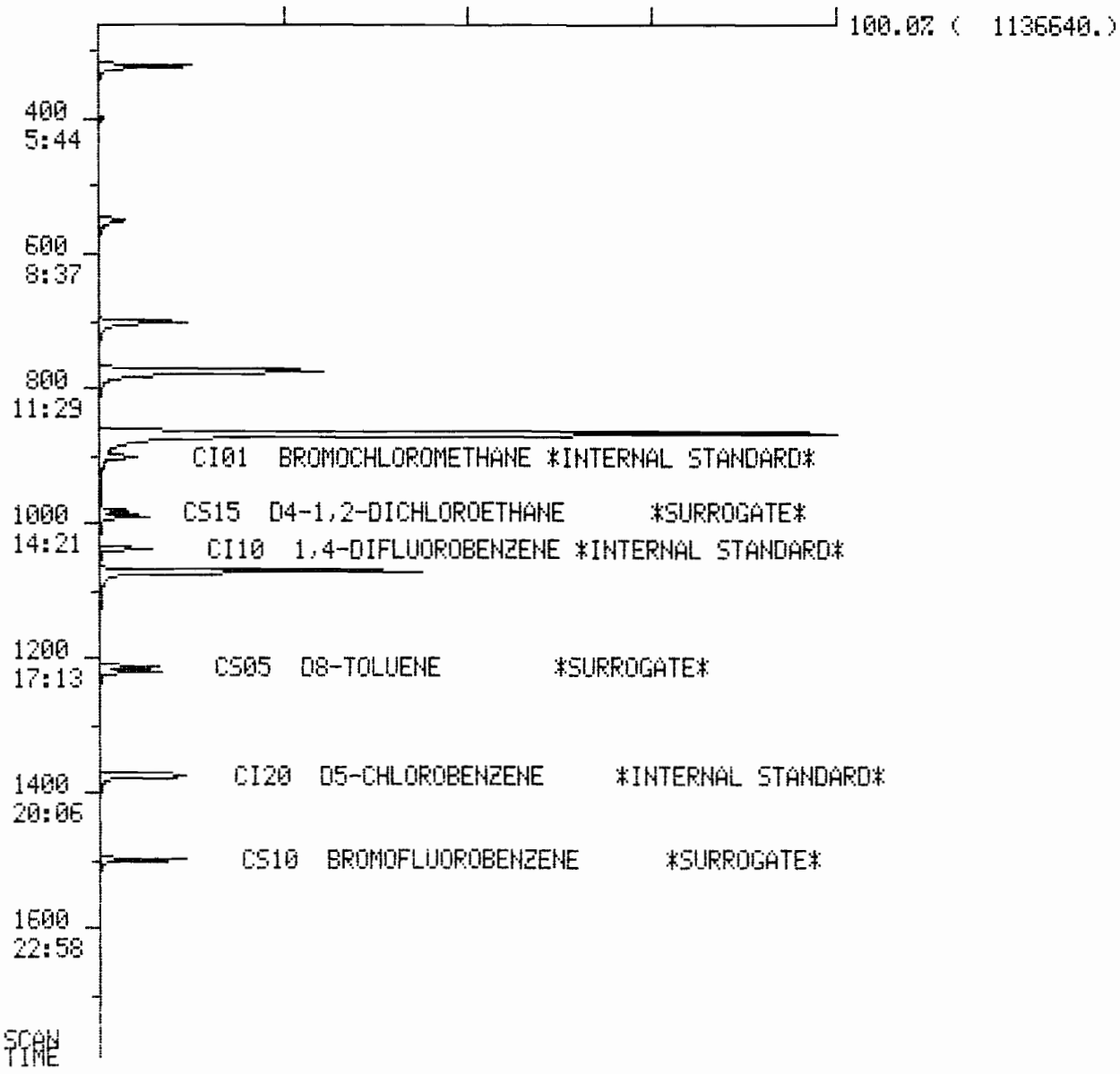
GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	630	E
75-00-3	Chloroethane	48	
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	86	
75-34-3	1,1-Dichloroethane	680	E
540-59-0	1,2-Dichloroethene (total)	2100	E
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	19	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	310	E
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	50	B
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	50	
108-90-7	Chlorobenzene	47	B
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

DATA FROM FILE: K8714 SCANS 260 TO 1790 ACQUIRED: 12/18/93 5:27:00
CALI: K8714 #3

SAMPLE: AS053078MS JOB4488
CONDS.: I50K



Quantitation Report File: K8714

ta: K8714.TI
/18/93 5:27:00
Sample: AS053078MS JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
5	C050	1,1-DICHLOROETHANE
6	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
1	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

SS
edit
12/8/93

No	Name
3	C246 M,P-XYLENE
7	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	128	899	12:54	1	1.000	A BB	32096.	250.000 NG	1.21
2	114	1035	14:51	2	1.000	A BB	133544.	250.000 NG	1.21
3	117	1370	19:40	3	1.000	A BB	124334.	250.000 NG	1.21
4	65	979	14:03	1	1.089	A BB	78575.	297.070 NG	1.44
5	98	1210	17:22	3	0.883	A BB	129030.	239.845 NG	1.16
6	95	1495	21:28	3	1.091	A BB	118362.	256.848 NG	1.24
7	NOT FOUND								
8	NOT FOUND								
9	62	319	4:35	1	0.355	A BB	446806.	3142.560 NG	15.23
10	64	396	5:41	1	0.440	A BB	21790.	237.508 NG	1.15
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	96	548	7:52	1	0.610	A BB	56616.	428.568 NG	2.08 126
15	63	772	11:05	1	0.859	A BB	1253890.	3395.580 NG	16.45
16	96	699	10:02	1	0.778	A BB	153980.	1040.900 NG	5.04
17	NOT FOUND								
18	62	989	14:12	1	1.100	A BB	28243.	95.140 NG	0.46
19	NOT FOUND								
20	NOT FOUND								
1	NOT FOUND								
2	NOT FOUND								
23	NOT FOUND								
24	96	864	12:24	1	0.961	A BB	1600370.	8479.500 NG	41.09
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	NOT FOUND								
31	130	1068	15:20	2	1.032	A BB	396272.	1540.430 NG	7.46 86
32	NOT FOUND								
33	NOT FOUND								
34	78	988	14:11	2	0.955	A BB	124466.	250.743 NG	1.22 100
35	NOT FOUND								
36	NOT FOUND								
37	NOT FOUND								
38	NOT FOUND								
39	NOT FOUND								
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	NOT FOUND								
44	91	1217	17:28	3	0.888	A BB	137956.	247.847 NG	1.20 98
45	112	1373	19:42	3	1.002	A BB	119052.	233.843 NG	1.13 94
46	NOT FOUND								
7	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	NOT FOUND								

1,2-Dichloroethene (TOTAL) #16+#24

1754350.

10423.238 ug

RF = 1.311

mtm 12/28/93

12/14/93

mtm 12/28/93

Quantitation Report File: K8714

ta: K8714.TI
/18/93 5:27:00
Sample: AS053078MS JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.
184802MSD

Lab Name: RECRA ENVIRON Contract: C002412

Lab Code: RECNY Case No.: RB093 SAS No.: _____ SDG No.: 1214

Matrix: (soil/water) WATER Lab Sample ID: AS053078SD

Sample wt/vol: 5.0 (g/mL) ML Lab File ID: K8715

Level: (low/med) LOW Date Received: 12/15/93

% Moisture: not dec. ____ Date Analyzed: 12/18/93

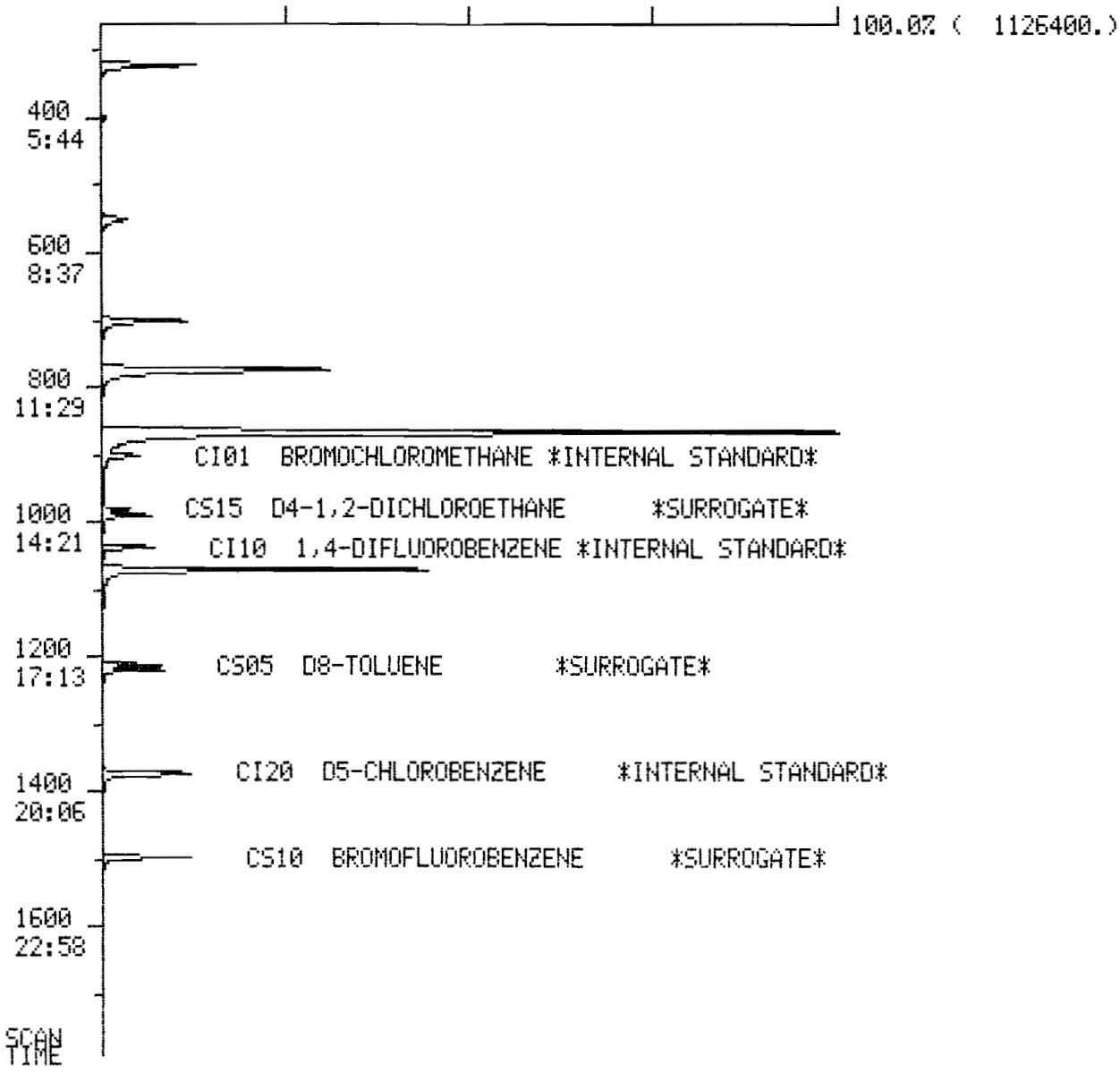
GC Column: DB-624 ID: 0.530 (mm) Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____(uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3	Chloromethane	10	U
74-83-9	Bromomethane	10	U
75-01-4	Vinyl Chloride	610	E
75-00-3	Chloroethane	46	
75-09-2	Methylene Chloride	10	U
67-64-1	Acetone	10	U
75-15-0	Carbon Disulfide	10	U
75-35-4	1,1-Dichloroethene	82	
75-34-3	1,1-Dichloroethane	670	E
540-59-0	1,2-Dichloroethene (total)	2000	E
67-66-3	Chloroform	10	U
107-06-2	1,2-Dichloroethane	19	
78-93-3	2-Butanone	10	U
71-55-6	1,1,1-Trichloroethane	10	U
56-23-5	Carbon Tetrachloride	10	U
75-27-4	Bromodichloromethane	10	U
78-87-5	1,2-Dichloropropane	10	U
10061-01-5	cis-1,3-dichloropropene	10	U
79-01-6	Trichloroethene	300	E
124-48-1	Dibromochloromethane	10	U
79-00-5	1,1,2-Trichloroethane	10	U
71-43-2	Benzene	49	B
10061-02-6	trans-1,3-dichloropropene	10	U
75-25-2	Bromoform	10	U
108-10-1	4-Methyl-2-Pentanone	10	U
591-78-6	2-Hexanone	10	U
127-18-4	Tetrachloroethene	10	U
79-34-5	1,1,2,2-Tetrachloroethane	10	U
108-88-3	Toluene	50	
108-90-7	Chlorobenzene	47	B
100-41-4	Ethylbenzene	10	U
100-42-5	Styrene	10	U
1330-20-7	Total Xylenes	10	U

DATA FROM FILE: K8715 SCANS 260 TO 1790 ACQUIRED: 12/18/93 6:01:00
CALI: K8715 #3

SAMPLE: AS05307851D JOB4488
CONDS.: I50K



Quantitation Report File: K8715

ta: K8715.TI
/18/93 6:01:00
Sample: AS053078SD JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name	
1	CI01	BROMOCHLOROMETHANE *INTERNAL STANDARD*
2	CI10	1,4-DIFLUOROBENZENE *INTERNAL STANDARD*
3	CI20	D5-CHLOROBENZENE *INTERNAL STANDARD*
4	CS15	D4-1,2-DICHLOROETHANE *SURROGATE*
5	CS05	D8-TOLUENE *SURROGATE*
6	CS10	BROMOFLUOROBENZENE *SURROGATE*
7	C010	CHLOROMETHANE
8	C015	BROMOMETHANE
9	C020	VINYL CHLORIDE
10	C025	CHLOROETHANE
11	C030	METHYLENE CHLORIDE
12	C035	ACETONE
13	C040	CARBON DISULFIDE
14	C045	1,1-DICHLOROETHENE
5	C050	1,1-DICHLOROETHANE
6	C057	TRANS-1,2-DICHLOROETHENE
17	C060	CHLOROFORM
18	C065	1,2-DICHLOROETHANE
19	C110	2-BUTANONE
20	C115	1,1,1-TRICHLOROETHANE
21	C120	CARBON TETRACHLORIDE
22	C125	VINYL ACETATE
23	C130	BROMODICLOROMETHANE
24	C056	CIS-1,2-DICHLOROETHENE
25	C036	ACROLEIN
26	C038	ACRYLONITRILE
27	C275	TRICHLOROFLUOROMETHANE
28	C300	ACETONITRILE
29	C140	1,2-DICHLOROPROPANE
30	C145	CIS-1,3-DICHLOROPROPENE
31	C150	TRICHLOROETHENE
32	C155	DIBROMOCHLOROMETHANE
33	C160	1,1,2-TRICHLOROETHANE
34	C165	BENZENE
35	C170	TRANS-1,3-DICHLOROPROPENE
36	C180	BROMOFORM
37	C161	2-CHLOROETHYL VINYL ETHER
38	C163	1,2-DIBROMOETHANE
39	C286	1,2-DIBROMO-3-CHLOROPROPANE
40	C210	4-METHYL-2-PENTANONE
1	C215	2-HEXANONE
42	C220	TETRACHLOROETHENE
43	C225	1,1,2,2-TETRACHLOROETHANE
44	C230	TOLUENE
45	C235	CHLOROBENZENE
46	C240	ETHYLBENZENE
47	C245	STYRENE

ES
Edit
12/18/93

No	Name
8	C246 M,P-XYLENE
9	C247 O-XYLENE
50	C260 1,3-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	128	899	12:54	1	1.000	A BB	32541.	250.000	NG	1.23
2	114	1034	14:51	2	1.000	A BB	136132.	250.000	NG	1.23
3	117	1369	19:39	3	1.000	A BB	124184.	250.000	NG	1.23
4	65	978	14:02	1	1.088	A BB	79326.	295.812	NG	1.46
5	98	1209	17:21	3	0.883	A BB	129437.	240.891	NG	1.19
6	95	1494	21:27	3	1.091	A BB	117959.	256.283	NG	1.27
7	NOT FOUND									
8	NOT FOUND									
9	62	318	4:34	1	0.354	A BB	440064.	3052.870	NG	15.08
10	64	395	5:40	1	0.439	A BB	21318.	229.190	NG	1.13
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	96	547	7:51	1	0.608	A BB	54598.	407.652	NG	2.01
15	63	771	11:04	1	0.858	A BB	1260210.	3366.070	NG	16.63
16	96	698	10:01	1	0.776	A BB	149386.	996.047	NG	4.92
17	NOT FOUND									
18	62	988	14:11	1	1.099	A BB	28286.	93.982	NG	0.46
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	NOT FOUND									
24	96	864	12:24	1	0.961	A BB	1595790.	8339.720	NG	41.19
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	NOT FOUND									
29	NOT FOUND									
30	NOT FOUND									
31	130	1068	15:20	2	1.033	A BB	389571.	1485.580	NG	7.34
32	NOT FOUND									
33	NOT FOUND									
34	78	987	14:10	2	0.955	A BB	125101.	247.230	NG	1.22
35	NOT FOUND									
36	NOT FOUND									
37	NOT FOUND									
38	NOT FOUND									
39	NOT FOUND									
40	NOT FOUND									
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	91	1217	17:28	3	0.889	A BB	138532.	249.183	NG	1.23
45	112	1372	19:42	3	1.002	A BB	119981.	235.953	NG	1.17
46	NOT FOUND									
47	NOT FOUND									
48	NOT FOUND									
49	NOT FOUND									
50	NOT FOUND									

1,2-Dichloroethene (total) = #16 + #24

1595790. / 1745176.

8339.720 / 10226.939 NG

RF = 1.311

MTA 12/28/93

117

64

99

98

94

12/18/93

MTA 12/28/93

Quantitation Report File: K8715

0320

ta: K8715.TI
/18/93 6:01:00
Sample: AS053078SD JOB4488
Conds.: I50K
Formula: Instrument: I50K Weight: 0.000
Submitted by: Analyst: CAS Acct. No.:

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

No	Name
51	C267 1,4-DICHLOROBENZENE
52	C249 1,2-DICHLOROBENZENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								