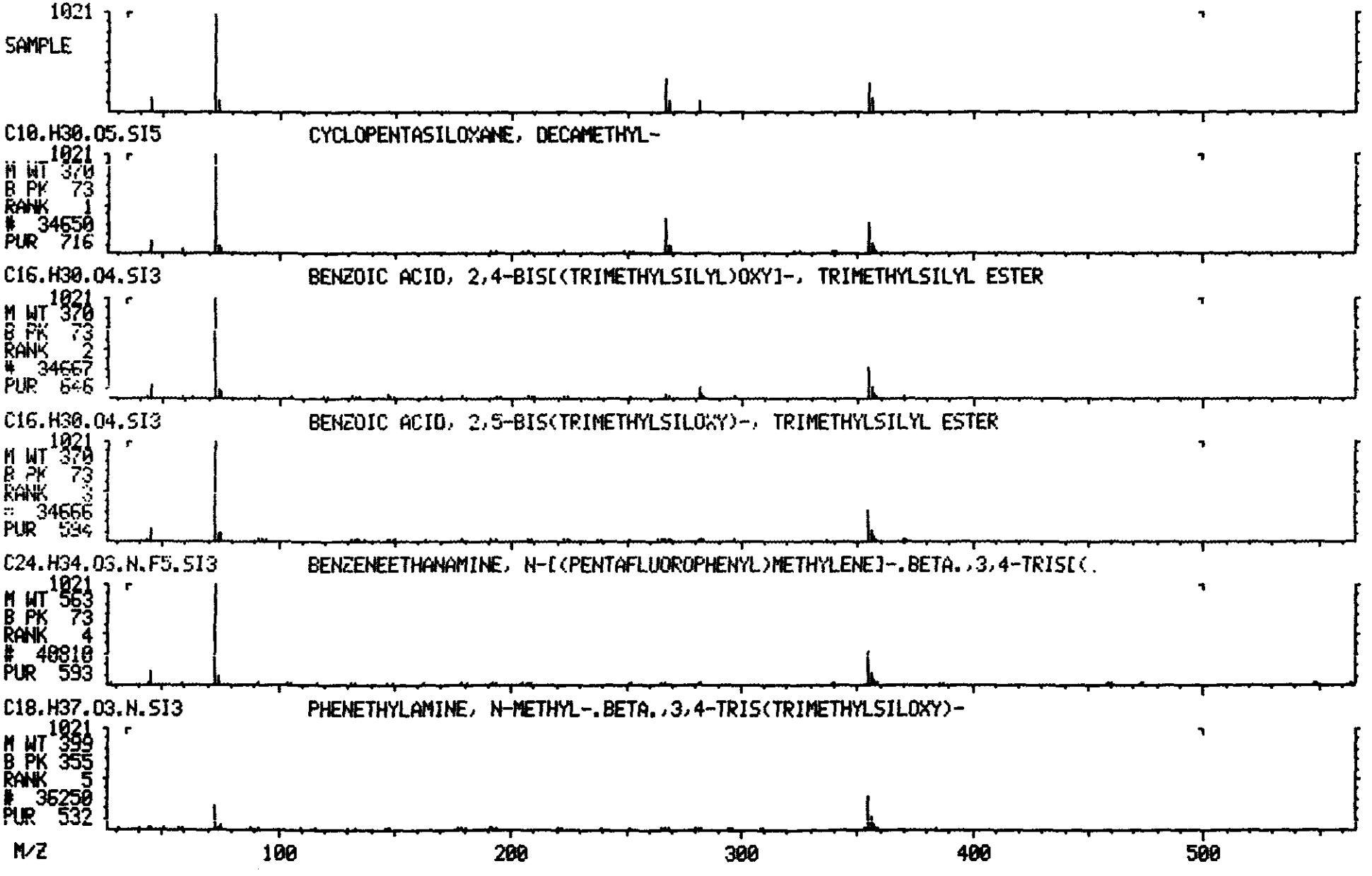
LIBRARY SEARCH
05/15/90 19:46:00 + 11:42
SAMPLE: CLP,VERSCDM,2536,6,M,S,16426,6,,420.1,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2594 # 702
CALI: T2594 # 2

BASE M/Z: 73
RIC: 2167.

100257

441312



Library Search Data: T2594 #1436 Base m/z: 167
05/15/90 19:46:00 + 23:56 Cali: T2594 # 2 RIC: 8975.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
75 matched at least 5 of the 16 largest peaks in the unknown

Rank	In.	Name
1	10813	5H-INDENO[1,2-B]PYRIDINE
2	34233	D-GALACTITOL, 2-(ACETYLMETHYLAMINO)-2-DEOXY-3,4,6-TRI-O-METHYL-, 1,*
3	10811	9H-CARBAZOLE
4	10812	1-NAPHTHALENEACETONITRILE
5	15662	1,1'-BIPHENYL, 2-AZIDO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H9.N	167	167	894	988	894
2	C16.H29.O8.N	363	167	866	966	891
3	C12.H9.N	167	167	861	930	919
	C12.H9.N	167	167	853	923	881
5	C12.H9.N3	195	167	820	931	877

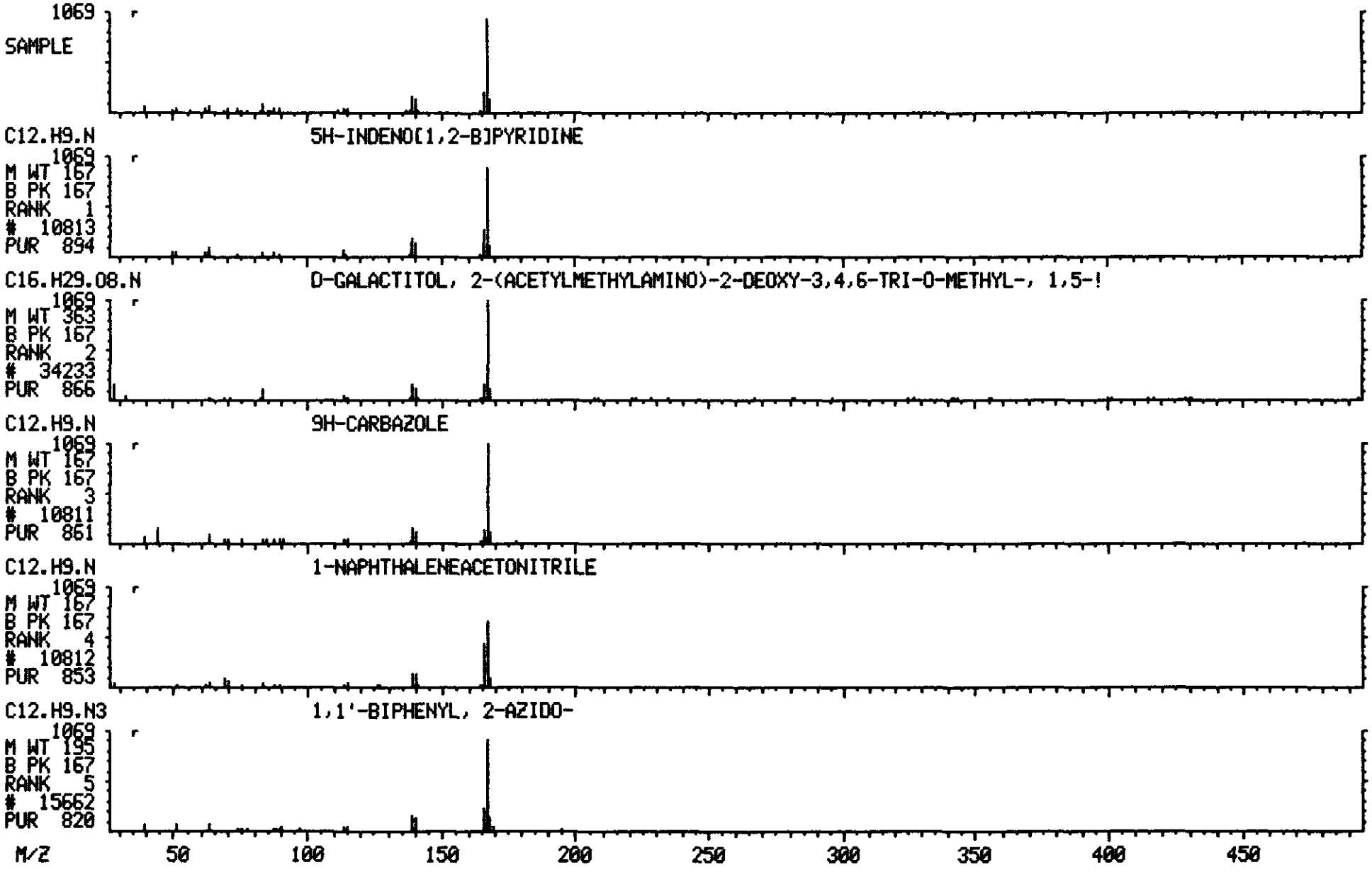
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	244-99-5
2	—	—	—	—	74410-42-7
3	—	—	—	—	86-74-8
4	—	—	—	—	132-75-2
5	—	—	—	—	7599-23-7

LIBRARY SEARCH
05/15/90 19:46:00 + 23:56
SAMPLE: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2594 #1436
CALI: T2594 # 2

BASE M/Z: 167
RIC: 8975.

100259



Library Search Data: T2594 #1509 Base m/z: 190
05/15/90 19:46:00 → 25:09 Cali: T2594 # 2 RIC: 12287.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
63 matched at least 5 of the 16 largest peaks in the unknown

PAH

Rank	In.	Name
1	14848	4H-CYCLOPENTA[DEF]PHENANTHRENE
2	15139	PHENANTHRENE, 4-METHYL-
3	15136	ANTHRACENE, 1-METHYL-
4	14963	9H-FLUORENE-2-CARBONITRILE
5	14873	BENZALDEHYDE, 3,5-DICHLORO-2-HYDROXY-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C15.H10	190	190	737	839	765
2	C15.H12	192	192	601	667	641
3	C15.H12	192	192	598	656	622
	C14.H9.N	191	191	594	700	609
5	C7.H4.O2.CL2	190	190	550	778	685

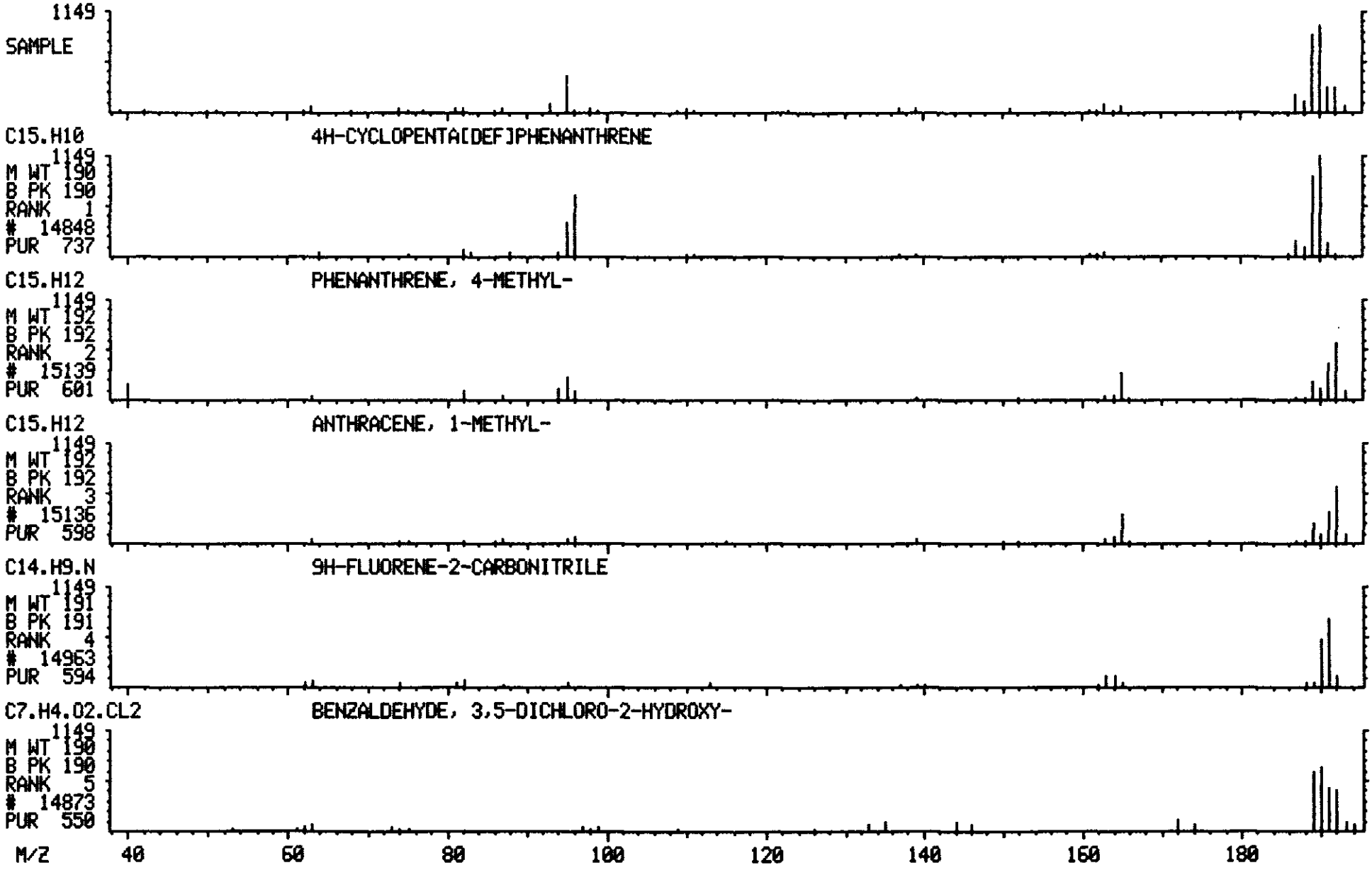
Rank	Ret.Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	203-64-5
2	—	—	—	—	832-64-4
3	—	—	—	—	610-48-0
4	—	—	—	—	2523-48-0
5	—	—	—	—	90-60-8

100261

LIBRARY SEARCH
05/15/90 19:46:00 + 25:09
SAMPLE: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2594 #1509
CALI: T2594 # 2

BASE M/Z: 190
RIC: 12287.



Library Search Data: T2594 #1551 Base m/z: 180
05/15/90 19:46:00 + 25:51 Cali: T2594 # 2 RIC: 6671.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
135 matched at least 5 of the 16 largest peaks in the unknown

KETONE

Rank	In.	Name
1	17856	9,10-ANTHRACENEDIONE
2	17855	9,10-PHENANTHRENEDIONE
3	17857	1,4-ANTHRACENEDIONE
4	13168	9H-FLUOREN-9-ONE
5	20091	BENZO[C]CINNOLIN-4-AMINE, N,N-DIMETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C14.H8.O2	208	180	875	952	901
2	C14.H8.O2	208	152	793	921	852
3	C14.H8.O2	208	126	701	796	753
	C13.H8.O	180	180	647	938	673
5	C14.H13.N3	223	208	626	680	876

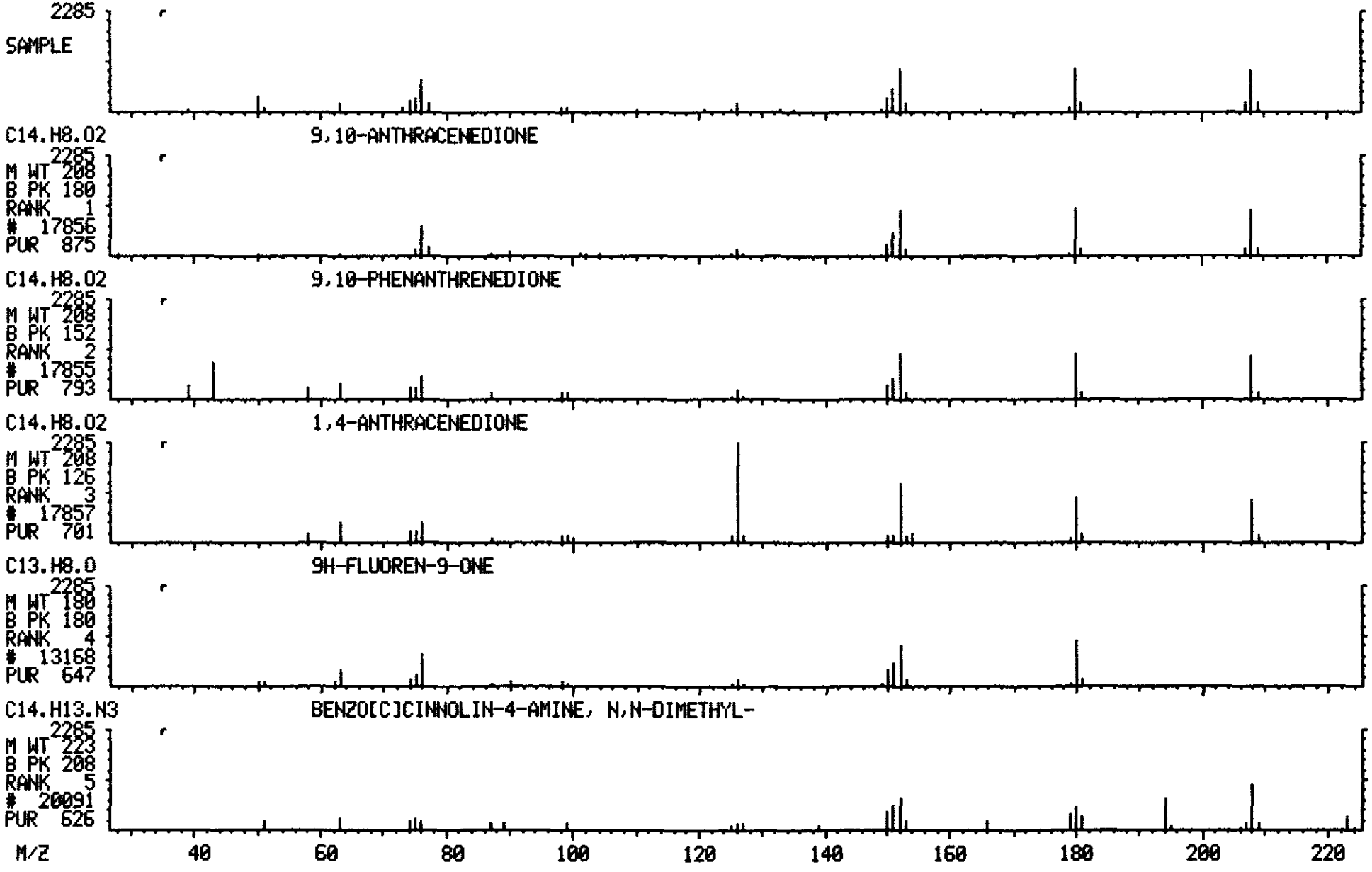
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	84-65-1
2	—	—	—	—	84-11-7
3	—	—	—	—	635-12-1
4	—	—	—	—	486-25-9
5	—	—	—	—	16371-74-7

100263

LIBRARY SEARCH
05/15/90 19:46:00 + 25:51
SAMPLE: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2594 #1551
CALI: T2594 # 2

BASE M/Z: 180
RIC: 6671.



Library Search Data: T2594 #1737 Base m/z: 216 ORIGINAL (Red)
05/15/90 19:46:00 + 28:57 Cali: T2594 # 2 RIC: 8815.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
159 matched at least 4 of the 16 largest peaks in the unknown

D44

Rank	In.	Name
1	19072	11H-BENZO[A]FLUORENE
2	19073	11H-BENZO[B]FLUORENE
3	19076	PYRENE, 2-METHYL-
4	19075	PYRENE, 4-METHYL-
5	19074	PYRENE, 1-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C17.H12	216	216	886	943	922
2	C17.H12	216	216	870	919	922
3	C17.H12	216	216	858	915	903
4	C17.H12	216	216	858	915	903
5	C17.H12	216	216	844	901	916

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	238-84-6
2	—	—	—	—	243-17-4
3	—	—	—	—	3442-78-2
4	—	—	—	—	3353-12-6
5	—	—	—	—	2381-21-7

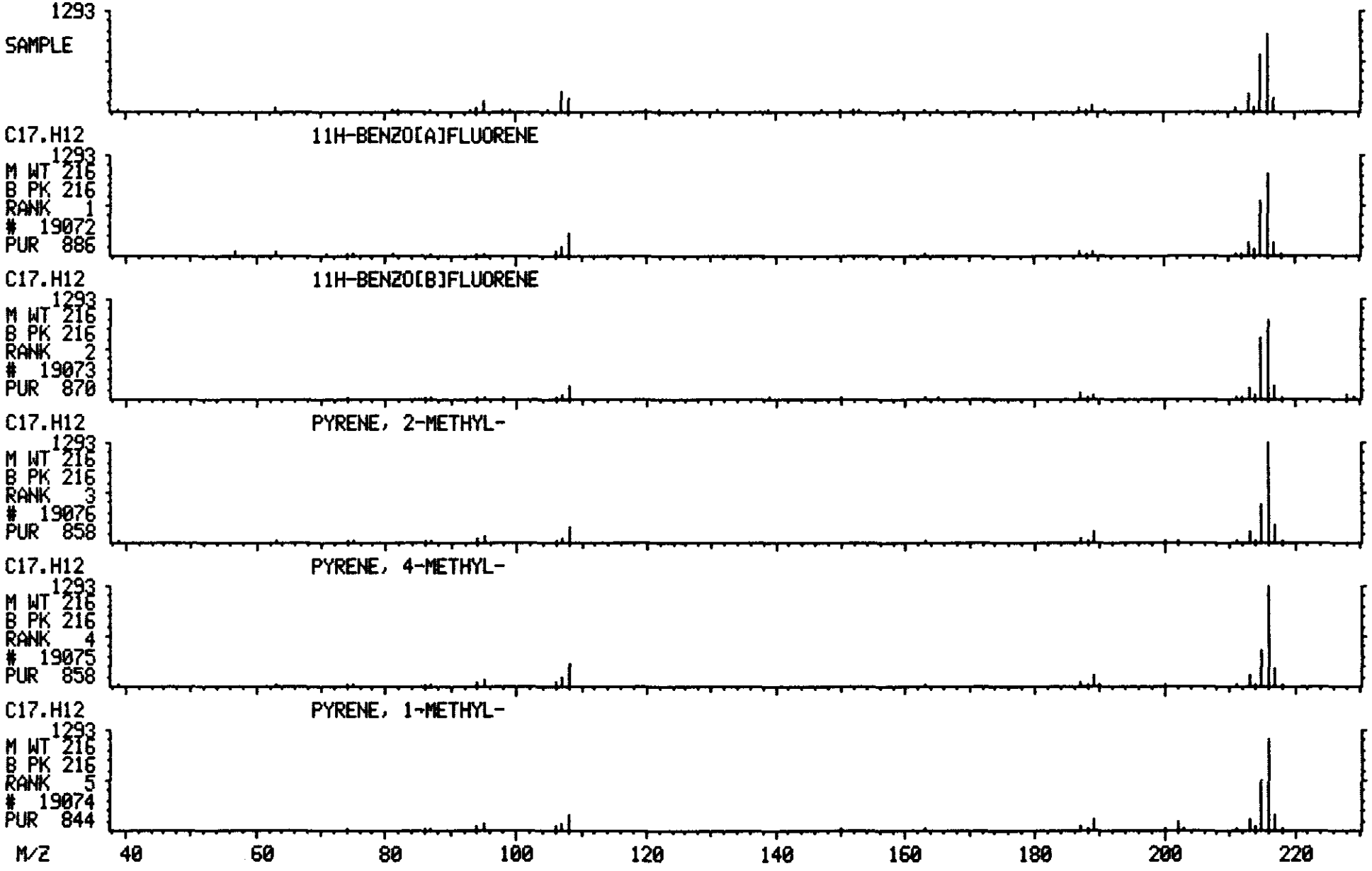
ORIGINAL (Red)

LIBRARY SEARCH
05/15/90 19:46:00 + 28:57
SAMPLE: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2594 #1737
CALI: T2594 # 2

BASE M/Z: 216
RIC: 8815.

100265



Library Search Data: T2594 #1977 Base m/z: 242
05/15/90 19:46:00 + 32:57 Cali: T2594 # 2 RIC: 4063.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL, ORIGINAL
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN (Red)
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
77 matched at least 5 of the 16 largest peaks in the unknown

DAH

Rank	In.	Name
1	22733	BENZ[A]ANTHRACENE, 7-METHYL-
2	22738	CHRYSENE, 3-METHYL-
3	22736	CHRYSENE, 1-METHYL-
4	22732	BENZ[A]ANTHRACENE, 1-METHYL-
5	22721	TRIPHENYLENE, 2-METHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C19.H14	242	242	767	916	806
2	C19.H14	242	242	752	906	799
3	C19.H14	242	242	748	893	803
	C19.H14	242	242	748	902	811
5	C19.H14	242	242	745	897	803

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	2541-69-7
2	—	—	—	—	3351-31-3
3	—	—	—	—	3351-28-8
4	—	—	—	—	2498-77-3
5	—	—	—	—	1705-84-6

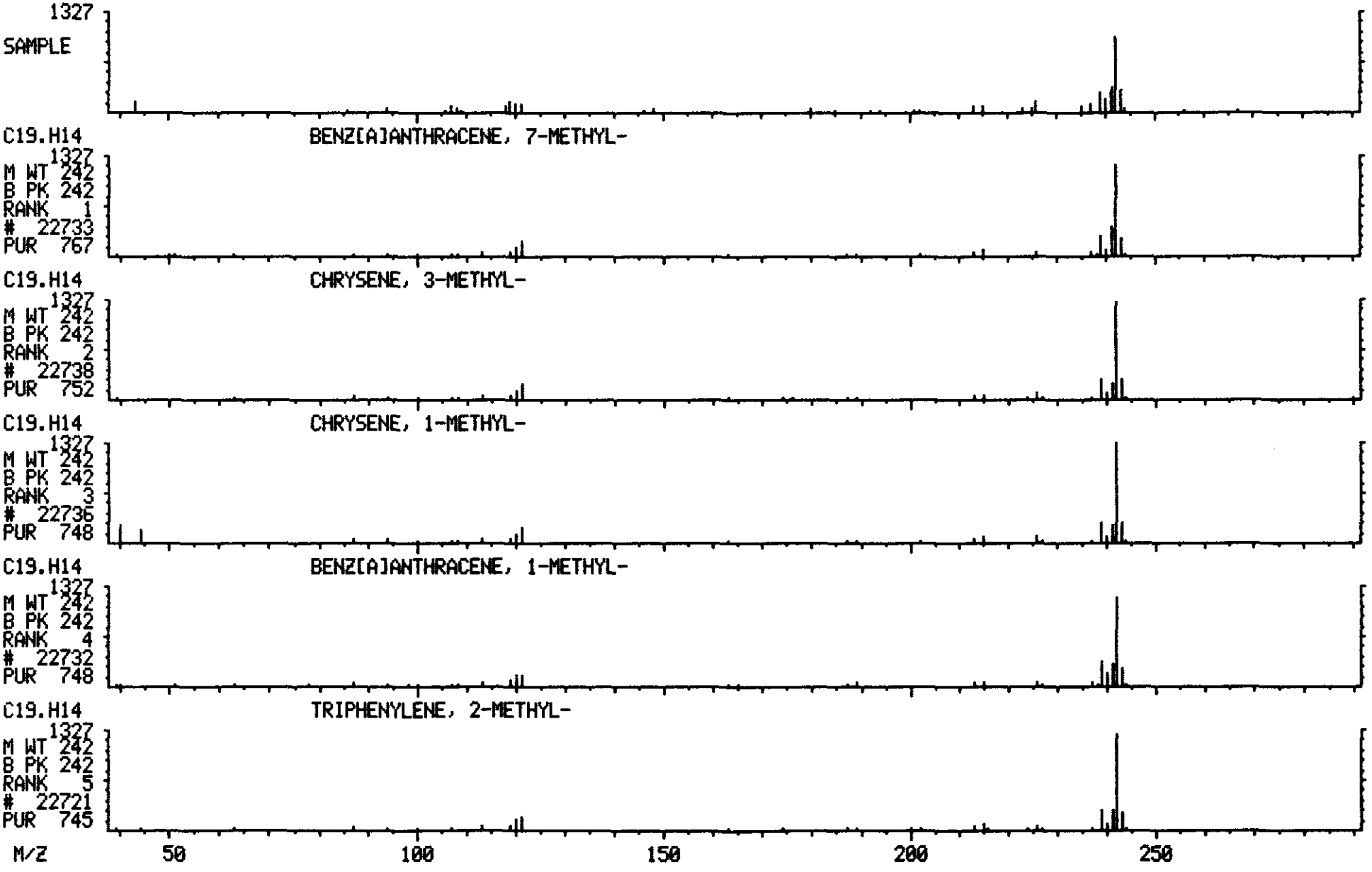
ORIGINAL (Red)

LIBRARY SEARCH
05/15/90 19:46:00 + 32:57
SAMPLE: CLP,VERSCOM,2536,6,M,S,16423,B,,420.1,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2594 #1977
CALI: T2594 # 2

BASE M/Z: 242
RIC: 4063.

100267



Library Search Data: T2594 #2062 Base m/z: 59 ORIGINAL
05/15/90 19:46:00 + 34:22 Cali: T2594 # 2 RIC: 6999. (Red)
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
222 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	9014	NONANAMIDE
2	11606	HEPTANAMIDE, 4-ETHYL-5-METHYL-
3	16384	DODECANAMIDE
4	2597	PENTANAMIDE, 4-METHYL-
5	27222	9-OCTADECENAMIDE, (Z)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H19.O.N	157	59	416	876	426
2	C10.H21.O.N	171	59	405	841	430
3	C12.H25.O.N	199	59	400	823	460
	C6.H13.O.N	115	59	383	880	389
5	C18.H35.O.N	281	59	380	810	458

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	1120-07-6
2	—	—	—	—	54789-40-1
3	—	—	—	—	1120-16-7
4	—	—	—	—	1119-29-5
5	—	—	—	—	301-02-0

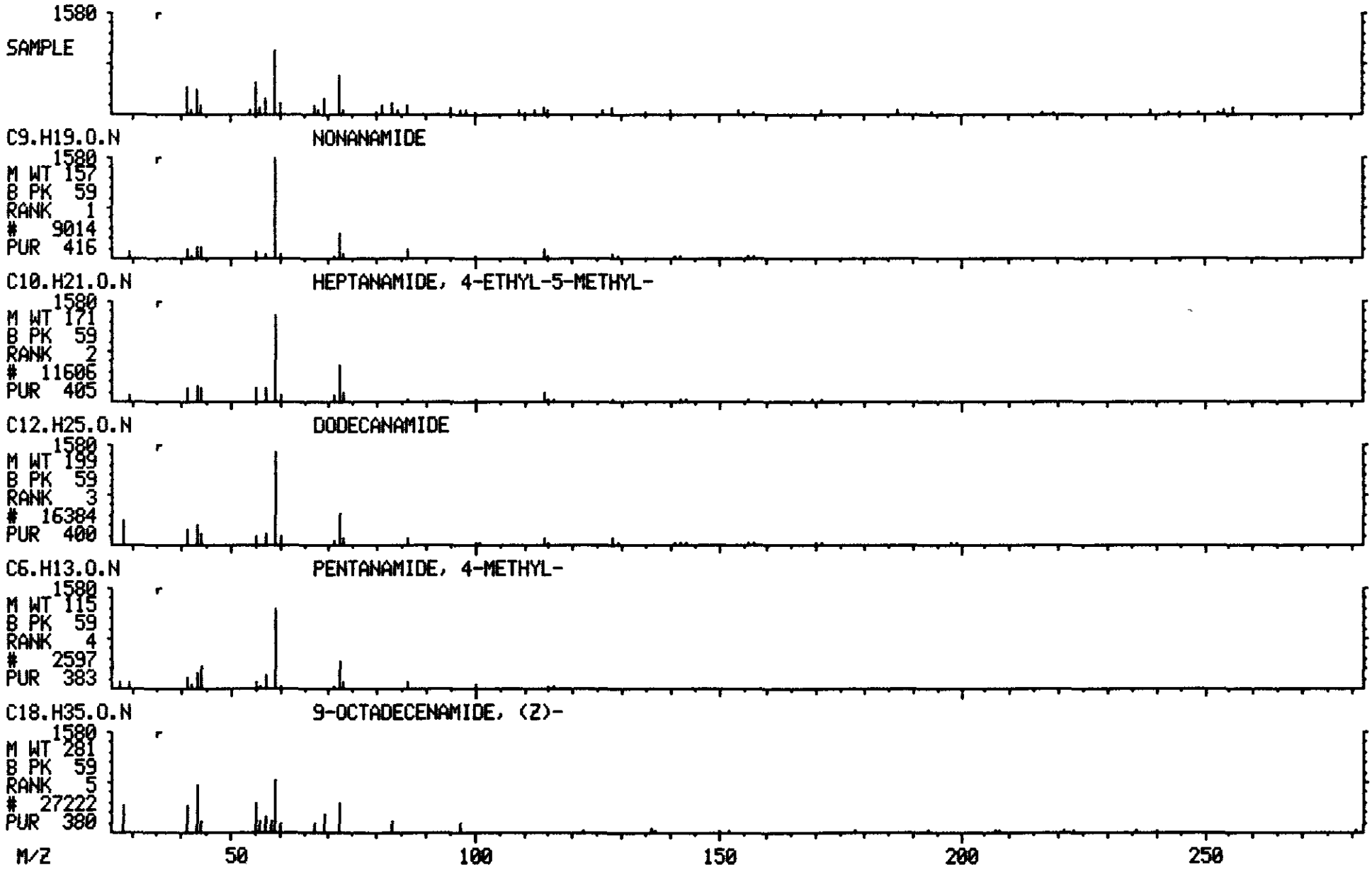
ORIGINAL (Red)

LIBRARY SEARCH
05/15/90 19:46:00 + 34:22
SAMPLE: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2594 #2062
CALI: T2594 # 2

BASE M/Z: 59
RIC: 6999.

100269



Library Search Data: T2594 #2187 Base m/z: 252
05/15/90 19:46:00 + 36:27 Cali: T2594 # 2 RIC: 12431.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL
(Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
50 matched at least 5 of the 16 largest peaks in the unknown

PAH

Rank	In.	Name
1	23964	BENZO[J]FLUORANTHENE
2	23965	BENZ[E]ACEPHENANTHRYLENE
3	23966	BENZO[K]FLUORANTHENE
4	23962	BENZO[E]PYRENE
5	23961	BENZO[A]PYRENE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C20.H12	252	252	907	964	931
2	C20.H12	252	252	898	952	928
3	C20.H12	252	252	898	955	925
	C20.H12	252	252	879	948	921
5	C20.H12	252	252	879	949	904

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	205-82-3
2	—	—	—	—	205-99-2
3	—	—	—	—	207-08-9
4	—	—	—	—	192-97-2
5	—	—	—	—	50-32-8

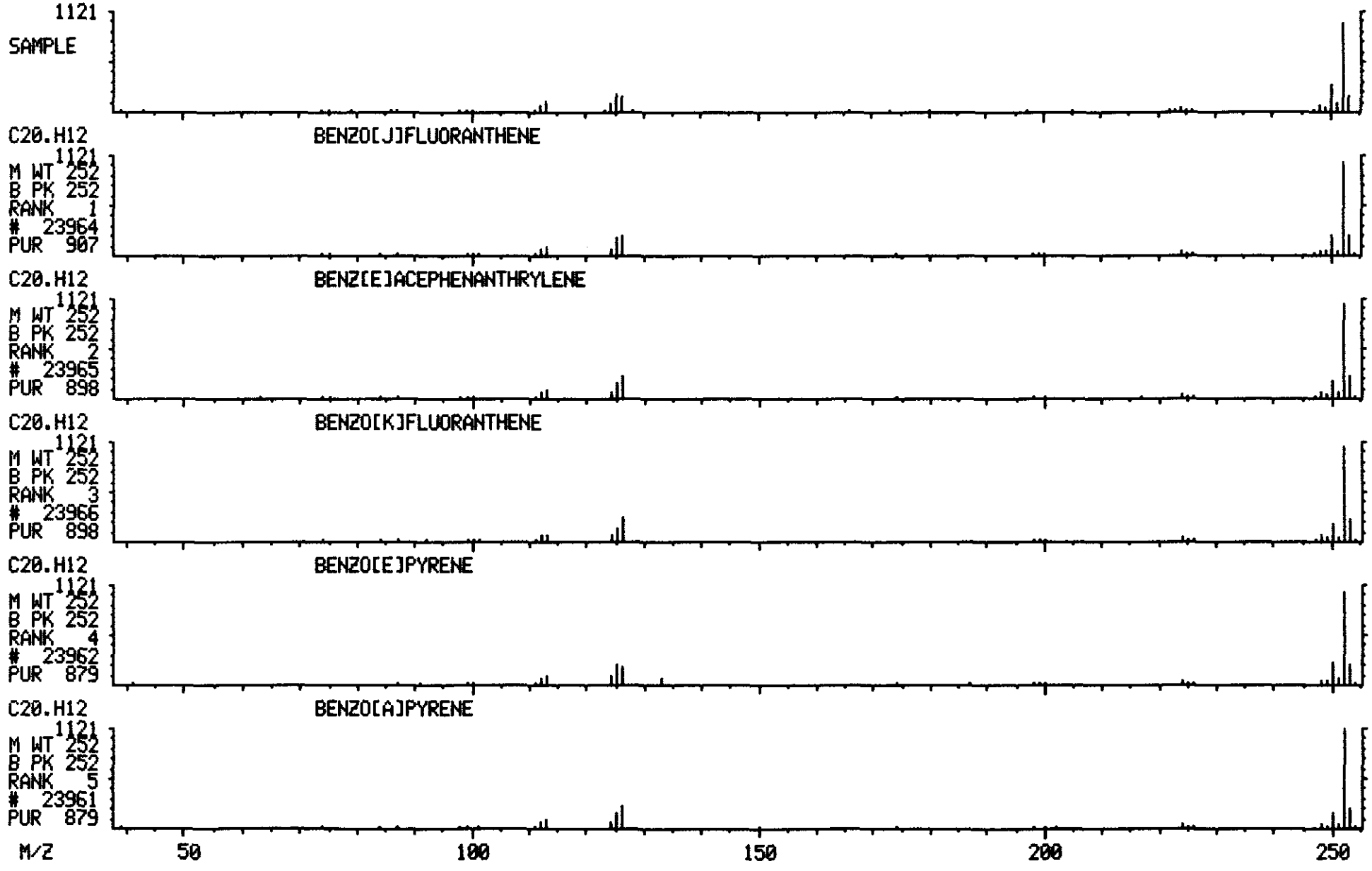
ORIGINAL (Red)

100271

LIBRARY SEARCH
05/15/90 19:46:00 + 36:27
SAMPLE: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2594 #2187
CALI: T2594 # 2

BASE M/Z: 252
RIC: 12431.



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        >>>>INTERNAL STANDARD RIC REPORT<<<<
*************************INTERNAL STANDARD#1*****************RIC
Mass List                        Data: T2594 # 547          Base m/z:   150
05/15/90 19:46:00 +  9:07        Cali: T2594 #    2         RIC:      54848.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     35        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*************************INTERNAL STANDARD#2*****************RIC
Mass List                        Data: T2594 # 768          Base m/z:   136
05/15/90 19:46:00 + 12:48        Cali: T2594 #    2         RIC:      63552.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*************************INTERNAL STANDARD#3*****************RIC
Mass List                        Data: T2594 #1102          Base m/z:   164
05/15/90 19:46:00 + 18:22        Cali: T2594 #    2         RIC:      63040.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*************************INTERNAL STANDARD#4*****************RIC
Mass List                        Data: T2594 #1387          Base m/z:   188
05/15/90 19:46:00 + 23:07        Cali: T2594 #    2         RIC:      93312.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*************************INTERNAL STANDARD#5*****************RIC
Mass List                        Data: T2594 #1906          Base m/z:   210
05/15/90 19:46:00 + 31:46        Cali: T2594 #    2         RIC:      88448.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*************************INTERNAL STANDARD#6*****************RIC
Mass List                        Data: T2594 #2218          Base m/z:   264
05/15/90 19:46:00 + 36:58        Cali: T2594 #    2         RIC:      48960.
Sample: CLP,VERSCDM,2536,6,M,S,16423,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
     ANALYST: CHECK BASE M/Z AND RIC AMOUNT TO INSURE NO CONTAMINATION
```

ORIGINAL (Red)

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7 ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16424

Sample wt/vol: 30.3 (g/mL) G Lab File ID: T2633

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 5 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	720	U
111-44-4	bis(2-Chloroethyl)ether	720	U
95-57-8	2-Chlorophenol	720	U
541-73-1	1,3-Dichlorobenzene	720	U
106-46-7	1,4-Dichlorobenzene	720	U
100-51-6	Benzyl alcohol	720	U
95-50-1	1,2-Dichlorobenzene	720	U
95-48-7	2-Methylphenol	720	U
108-60-1	bis(2-Chloroisopropyl)ether	720	U
106-44-5	4-Methylphenol	720	U
621-64-7	N-Nitroso-di-n-propylamine	720	U
67-72-1	Hexachloroethane	720	U
98-95-3	Nitrobenzene	720	U
78-59-1	Isophorone	720	U
88-75-5	2-Nitrophenol	720	U
105-67-9	2,4-Dimethylphenol	720	U
65-85-0	Benzoic Acid	3500	U
111-91-1	bis(2-Chloroethoxy)methane	720	U
120-83-2	2,4-Dichlorophenol	720	U
120-82-1	1,2,4-Trichlorobenzene	720	U
91-20-3	Naphthalene	1200	
106-47-8	4-Chloroaniline	720	U
87-68-3	Hexachlorobutadiene	720	U
59-50-7	4-Chloro-3-methylphenol	720	U
91-57-6	2-Methylnaphthalene	230	J
77-47-4	Hexachlorocyclopentadiene	720	U
88-06-2	2,4,6-Trichlorophenol	720	U
95-95-4	2,4,5-Trichlorophenol	3500	U
91-58-7	2-Chloronaphthalene	720	U
88-74-4	2-Nitroaniline	3500	U
131-11-3	Dimethylphthalate	720	U
208-96-8	Acenaphthylene	230	J
606-20-2	2,6-Dinitrotoluene	720	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

7 ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16424

Sample wt/vol: 30.3 (g/mL) G Lab File ID: T2633

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 5 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3500	U
83-32-9	Acenaphthene	720	U
51-28-5	2,4-Dinitrophenol	3500	U
100-02-7	4-Nitrophenol	3500	U
132-64-9	Dibenzofuran	220	J
121-14-2	2,4-Dinitrotoluene	720	U
84-66-2	Diethylphthalate	720	U
7005-72-3	4-Chlorophenyl-phenylether	720	U
86-73-7	Fluorene	720	U
100-01-6	4-Nitroaniline	3500	U
534-52-1	4,6-Dinitro-2-methylphenol	3500	U
86-30-6	N-nitrosodiphenylamine (1)	720	U
101-55-3	4-Bromophenyl-phenylether	720	U
118-74-1	Hexachlorobenzene	720	U
87-86-5	Pentachlorophenol	3500	U
85-01-8	Phenanthrene	800	
120-12-7	Anthracene	720	U
84-74-2	Di-n-butylphthalate	720	U
206-44-0	Fluoranthene	1800	
129-00-0	Pyrene	1400	
85-68-7	Butylbenzylphthalate	720	U
91-94-1	3,3'-Dichlorobenzidine	1400	U
56-55-3	Benzo(a)anthracene	1200	
218-01-9	Chrysene	1700	
117-81-7	bis(2-Ethylhexyl)phthalate	720	U
117-84-0	Di-n-octyl phthalate	720	U
205-99-2	Benzo(b)fluoranthene	1600	
207-08-9	Benzo(k)fluoranthene	1500	
50-32-8	Benzo(a)pyrene	1200	
193-39-5	Indeno(1,2,3-cd)pyrene	1300	
53-70-3	Dibenz(a,h)anthracene	720	U
191-24-2	Benzo(g,h,i)perylene	780	

(1) - Cannot be separated from Diphenylamine

1F
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

7 ORIGINAL (Reg)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16424

Sample wt/vol: 30.3 (g/mL) G Lab File ID: T2633

Level: (low/med) LOW Date Received: 04/19/90

% Moisture: not dec. 5 dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: 8.0 Dilution Factor: 1.0

Number TICs found: 10

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

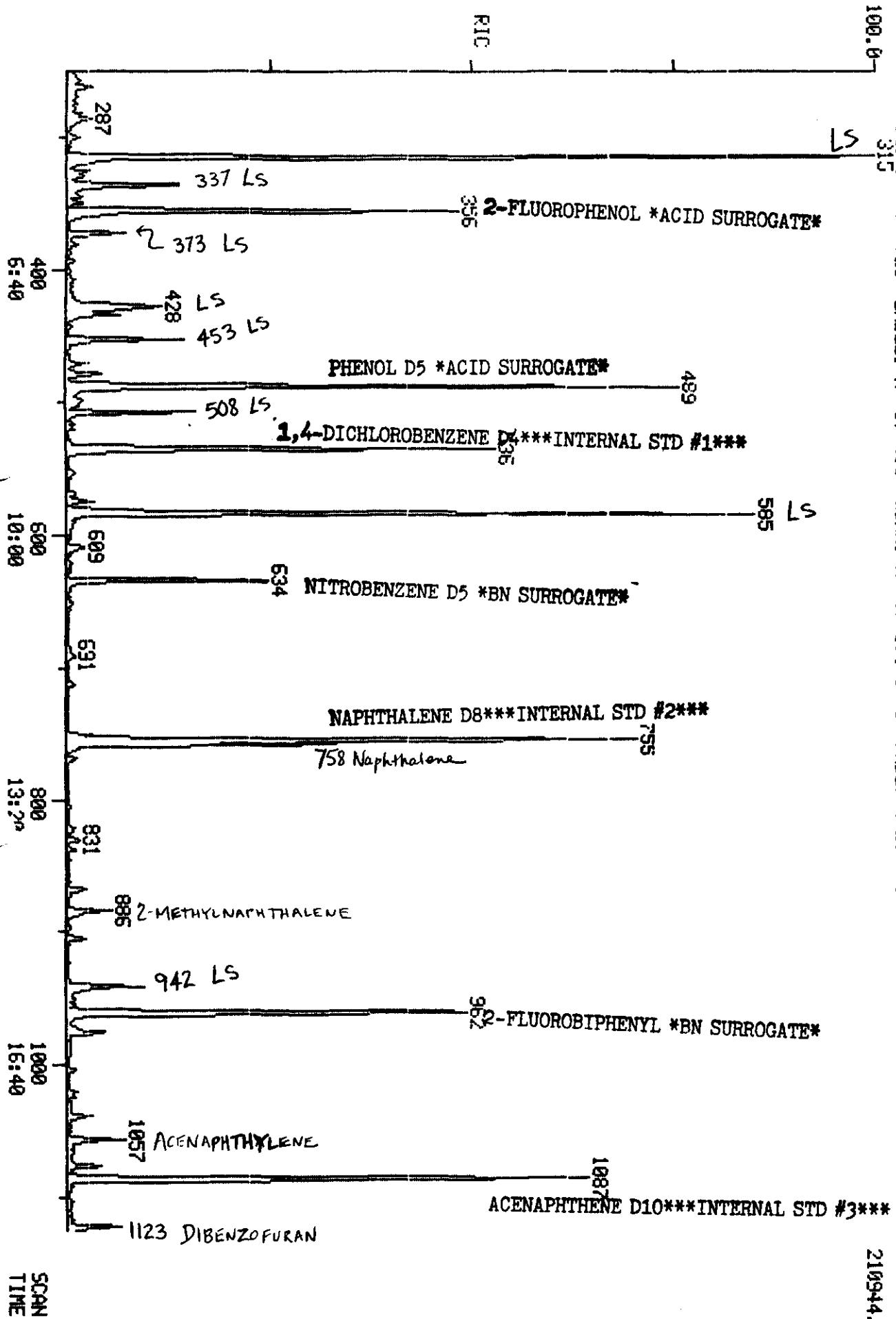
CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.25	5400	J
2.	UNKNOWN	5.62	730	J
3.	UNKNOWN	6.22	290	J
4.	UNKNOWN	7.13	590	J
5.	UNKNOWN KETONE	7.55	730	J
6.	UNKNOWN KETONE	8.47	730	J
7.	UNKNOWN	9.75	4200	J
8. 74367-33-2	PROPANOIC ACID, 2-METHYL-, 2	15.70	440	J
9.	UNKNOWN	34.02	1700	J
10.	UNK POLYAROMATIC HYDROCARBON	35.97	1500	J

ORIGINAL
(Red)

RIC
05/17/90 1:56:00
SAMPLE: CLP,VEPSCOM,2536,7,L,S,16424,B,,420.1 BN2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 300@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2533 #1
CALI: T2533 #2

SCANS 250 TO 1125



210944.

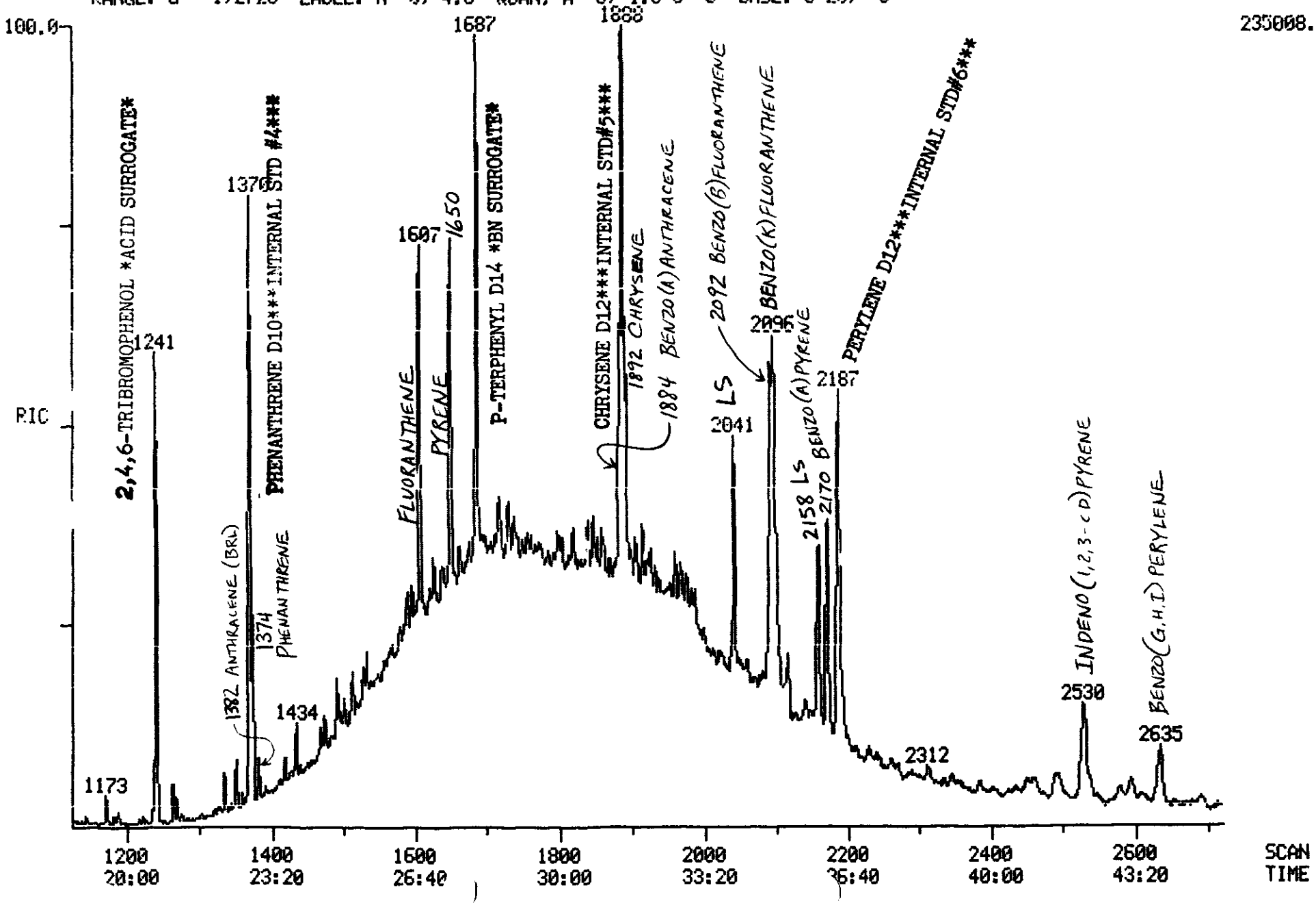
100276

ORIGINAL (Red)

RIC
05/17/90 1:56:00
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 300@8C/MIN
RANGE: C 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2633 #1
CALI: T2633 #2

SCANS 1125 TO 2720



100277

Quantitation Report File: T2633

ORIGINAL (Red)

Data: T2633.TI
05/17/90 1:56:00
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@6C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

5/23/90

Ready for FORMS
14 HSLs confirmed
bnd

All IS areas + Surrogate recoveries are compliant.
SJS
5-17-90

10027

T2633

ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	535	8:55	1	1.000	A BB	32219.	40.000 NG/UL	5.82
2	NOT FOUND								
3	94	490	8:10	1	0.916	A BB	950.	BRL ~~0.570 NG~~	0.08
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	108	586	9:46	1	1.095	A BB	205.	BRL ~~0.179 NG~~	0.03
11	NOT FOUND								
12	108	611	10:11	1	1.142	A BB	318.	BRL ~~0.259 NG~~	0.04
13	NOT FOUND								
14	112	356	5:56	1	0.665	A BB	45832.	45.352 NG*A1	6.60
15	99	489	8:09	1	0.914	A BB	78951.	54.234 NG*A2	7.87
16	136	755	12:35	16	1.000	A BB	101410.	40.000 NG/UL	5.82
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	128	758	12:38	16	1.004	A BB	57436.	16.317 NG	2.37
25	122	713	11:53	16	0.944	A BB	598.	BRL ~~1.283 NG~~	0.18
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	142	885	14:45	16	1.172	A BB	6654.	3.151 NG	0.46
30	82	634	10:34	16	0.840	A BB	36647.	21.887 NG*B1	3.18
31	164	1087	18:07	31	1.000	A BB	69098.	40.000 NG/UL	5.82
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	152	1057	17:37	31	0.972	A BB	10878.	3.118 NG	0.45
38	NOT FOUND								
39	NOT FOUND								
40	153	1093	18:13	31	1.006	A BB	514.	BRL ~~0.234 NG~~	0.03
41	NOT FOUND								
42	NOT FOUND								
43	168	1123	18:43	31	1.033	A BB	10140.	3.072 NG	0.45
44	NOT FOUND								
45	NOT FOUND								
46	166	1189	19:49	31	1.094	A BB	2467.	BRL ~~0.915 NG~~	0.13
47	NOT FOUND								
48	149	1186	19:46	31	1.091	A BB	514.	BRL ~~0.162 NG~~	0.02
49	NOT FOUND								
50	NOT FOUND								

T2633

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:27		0.949						
3	8:10	1.00	0.918	1.00	0.57	50.00	0.024	2.069	0.01
4	8:23		0.942						
5	8:48		0.989						
6	8:57		1.006						
7	9:27		1.062						
8	9:23		1.054						
9	9:49		1.103						
10	9:45	1.00	1.096	1.00	0.17	50.00	0.005	1.472	0.00
11	10:16		1.154						
12	10:10	1.00	1.142	1.00	0.26	50.00	0.008	1.527	0.01
13	10:14		1.150						
14	5:54	1.01	0.663	1.00	45.35	50.00	1.138	1.255	0.91
15	8:08	1.00	0.914	1.00	54.23	50.00	1.960	1.807	1.08
16	12:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:37		0.845						
18	11:16		0.897						
19	11:32		0.918						
20	11:41		0.930						
21	12:01		0.956						
22	12:12		0.971						
23	12:27		0.991						
24	12:38	1.00	1.005	1.00	16.32	50.00	0.453	1.388	0.33
25	12:02	0.99	0.958	0.99	1.26	50.00	0.005	0.187	0.03
26	12:56		1.029						
27	13:10		1.048						
28	14:26		1.149						
29	14:45	1.00	1.174	1.00	3.15	50.00	0.052	0.833	0.06
30	10:34	1.00	0.841	1.00	21.69	50.00	0.289	0.660	0.44
31	18:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:27		0.854						
33	15:45		0.870						
34	15:51		0.876						
35	16:17		0.900						
36	16:48		0.928						
37	17:37	1.00	0.973	1.00	3.12	50.00	0.126	2.019	0.06
38	17:31		0.968						
39	17:45		0.981						
40	18:13	1.00	1.006	1.00	0.23	50.00	0.006	1.270	0.00
41	18:09		1.003						
42	18:28		1.020						
43	18:43	1.00	1.034	1.00	3.07	50.00	0.117	1.911	0.06
44	18:43		1.034						
45	18:58		1.048						
46	19:49	1.00	1.095	1.00	0.92	50.00	0.029	1.561	0.02
47	19:52		1.098						
48	19:47	1.00	1.093	1.00	0.16	50.00	0.006	1.842	0.00
49	20:09		1.113						
50	20:14		1.118						

ORIGINAL (Red)

Quantitation Report File: T2633

ORIGINAL (Red)

Data: T2633.TI
05/17/90 1:56:00
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	172	961	16:01	31	0.884	A BB	61306.	26.684 NG*B2	3.68
55	188	1370	22:50	55	1.000	A BV	163283.	40.000 NG/UL	5.82
56	NOT FOUND								
57	178	1374	22:54	55	1.003	A BV	48180.	10.993 NG	1.60
58	178	1382	23:02	55	1.009	A VB	10341.	BRL ~~2.302 NG~~	0.33
59	149	1501	25:01	55	1.096	A BB	6551.	BRL ~~1.115 NG~~	0.16
60	202	1607	26:47	55	1.173	A BB	138619.	24.196 NG	3.52
61	202	1650	27:30	63	0.874	A VB	109178.	19.608 NG.	2.85
62	330	1241	20:41	31	1.142	A BB	38391.	50.422 NG*A3	7.33
63	240	1887	31:27	63	1.000	A VB	181045.	40.000 NG/UL	5.82
64	149	1792	29:52	63	0.950	A BB	834.	BRL ~~0.308 NG~~	0.04
65	228	1884	31:24	63	0.998	A BV	73589.	15.941 NG	2.32
66	228	1892	31:32	63	1.003	A VB	84043.	22.995 NG	3.34

T2633 ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT FOUND								
68	149	1904	31:44	63	1.009	A BB	5214.	BRL ~~1.375 NG~~	0.20
69	244	1687	28:07	63	0.894	A BB	145051.	33.888 NG*B3	4.93
70	264	2186	36:26	70	1.000	A VB	181599.	40.000 NG/UL	5.82
71	149	2013	33:33	70	0.921	A BB	424.	BRL ~~0.065 NG~~	0.01
72	252	2092	34:52	70	0.957	A VV	115822.	22.067 NG	3.21
73	252	2097	34:57	70	0.959	A VB	98034.	19.885 NG	2.89
74	252	2170	36:10	70	0.993	A VB	80109.	16.030 NG	2.33
75	276	2530	42:10	70	1.157	A BB	69127.	17.385 NG	2.53
76	278	2548	42:28	70	1.166	A VB	3791.	BRL ~~1.005 NG~~	0.15
77	276	2635	43:55	70	1.205	A BB	43026.	10.601 NG	1.54

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:19		1.122						
52	21:26		1.184						
53	21:50		1.206						
54	16:01	1.00	0.885	1.00	26.68	50.00	0.710	1.330	0.53
55	22:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:27		0.983						
57	22:54	1.00	1.003	1.00	10.99	50.00	0.236	1.074	0.22
58	23:03	1.00	1.009	1.00	2.30	50.00	0.051	1.101	0.05
59	25:01	1.00	1.096	1.00	1.12	50.00	0.032	1.439	0.02
60	26:47	1.00	1.173	1.00	24.20	50.00	0.679	1.403	0.48
61	27:30	1.00	0.874	1.00	19.61	50.00	0.482	1.230	0.39
62	20:40	1.00	1.142	1.00	50.42	50.00	0.444	0.441	1.01
63	31:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:53	1.00	0.950	1.00	0.31	50.00	0.004	0.598	0.01
65	31:24	1.00	0.998	1.00	15.94	50.00	0.325	1.020	0.32
66	31:32	1.00	1.003	1.00	23.00	50.00	0.371	0.807	0.46
67	31:26		0.999						
68	31:44	1.00	1.009	1.00	1.38	50.00	0.023	0.838	0.03
69	28:06	1.00	0.893	1.00	33.89	50.00	0.641	0.946	0.68
70	36:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:33	1.00	0.921	1.00	0.06	50.00	0.002	1.437	0.00
72	34:53	1.00	0.957	1.00	22.07	50.00	0.510	1.156	0.44
73	34:58	1.00	0.960	1.00	19.89	50.00	0.432	1.086	0.40
74	36:11	1.00	0.993	1.00	16.03	50.00	0.353	1.101	0.32
75	42:13	1.00	1.159	1.00	17.38	50.00	0.305	0.876	0.35
76	42:24	1.00	1.164	1.00	1.01	50.00	0.017	0.831	0.02
77	44:00	1.00	1.208	1.00	10.60	50.00	0.190	0.894	0.21

Quantitation Report File: QCREF

ORIGINAL (Red)

Data: T2633.TI
05/17/90 1:56:00
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

x 1.053

Scan	Time	Area(Hght)	% Rec	Amount		Name
535	8:55	32219.		40.000	NG/UL	CI30 1,4-DICHLOROBENZENE-D4
755	12:35	101410.		40.000	NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1087	18:07	69098.		40.000	NG/UL	CI50 ACENAPHTHENE-D10**INT.
1370	22:50	163283.		40.000	NG/UL	CI60 PHENANTHRENE-D10**INT.
1887	31:27	181045.		40.000	NG/UL	CI70 CHRYSENE-D12**INT. STD
2186	36:26	181599.		40.000	NG/UL	CI75 PERYLENE-D12**INT. STD
356	5:56	45832.	48	45.352	NG*A1	CS50 2-FLUOROPHENOL**ACID SU
489	8:09	78951.	57	54.234	NG*A2	CS45 PHENOL-D5**ACID SURR.**
1241	20:41	38391.	53	50.422	NG*A3	CS55 2,4,6,-TRIBROMOPHENOL**
634	10:34	36647.	46	21.887	NG*B1	CS20 NITROBENZENE-D5**BN SUR
961	16:01	61306.	56	26.684	NG*B2	CS25 2-FLUOROBIPHENYL**BN SU
1687	28:07	145051.	71	33.868	NG*B3	CS30 P-TERPHENYL-D14**BN SUR

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	31:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	36:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	5:54	1.01	0.663	1.00	45.35	50.00	1.138	1.255	0.91
8	8:08	1.00	0.914	1.00	54.23	50.00	1.960	1.807	1.08
9	20:40	1.00	1.142	1.00	50.42	50.00	0.444	0.441	1.01
10	10:34	1.00	0.841	1.00	21.89	50.00	0.289	0.660	0.44
11	16:01	1.00	0.885	1.00	26.68	50.00	0.710	1.330	0.53
12	28:06	1.00	0.893	1.00	33.89	50.00	0.641	0.946	0.68

Quantitation Report File: ISREF

Data: T2624.TI
05/16/90 17:01:00
Sample: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ____

Data: T2633.TI
05/17/90 1:56:00
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD. #2**
4	CI40 NAPHTHALENE-D8**INT. STD. #2**
5	CI50 ACENAPHTHENE-D10**INT. STD. #3**
6	CI50 ACENAPHTHENE-D10**INT. STD. #3**
7	CI60 PHENANTHRENE-D10**INT. STD. #4**
8	CI60 PHENANTHRENE-D10**INT. STD. #4**
9	CI70 CHRYSENE-D12**INT. STD. #5**
10	CI70 CHRYSENE-D12**INT. STD. #5**
11	CI75 PERYLENE-D12**INT. STD. #6**
12	CI75 PERYLENE-D12**INT. STD. #6**

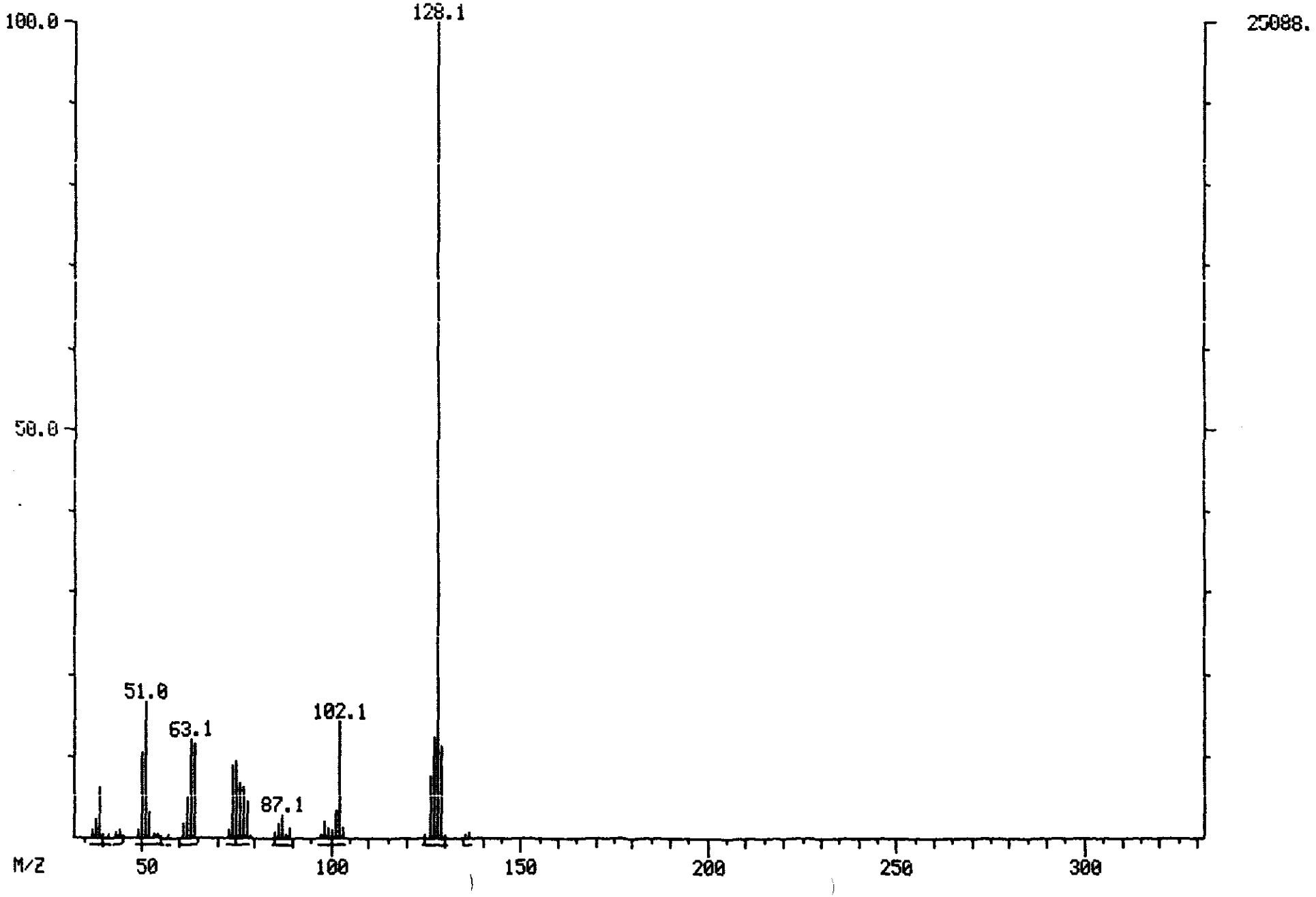
Scan	Time	Area(Hght)	Amount	Name
534	8:54	21230.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
535	8:55	32219.	60.705 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
754	12:34	67127.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
755	12:35	101410.	60.429 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1086	18:06	45485.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1087	18:07	69098.	60.765 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1370	22:50	109533.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1370	22:50	163283.	59.629 NG/UL	CI60 PHENANTHRENE-D10**INT.
1887	31:27	129519.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
1887	31:27	181045.	55.913 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2186	36:26	121131.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
2186	36:26	181599.	59.968 NG/UL	CI75 PERYLENE-D12**INT. STD.

100285

MASS SPECTRUM
05/17/90 1:56:00 + 12:38
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,6,,420.1 P#2,1UL,
CONDS.: INST T COLUMN=PESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C450 NAPHTHALENE

DATA: T2633 #758
CALI: T2633 #2

BASE M/Z: 128
RIC: 70016.

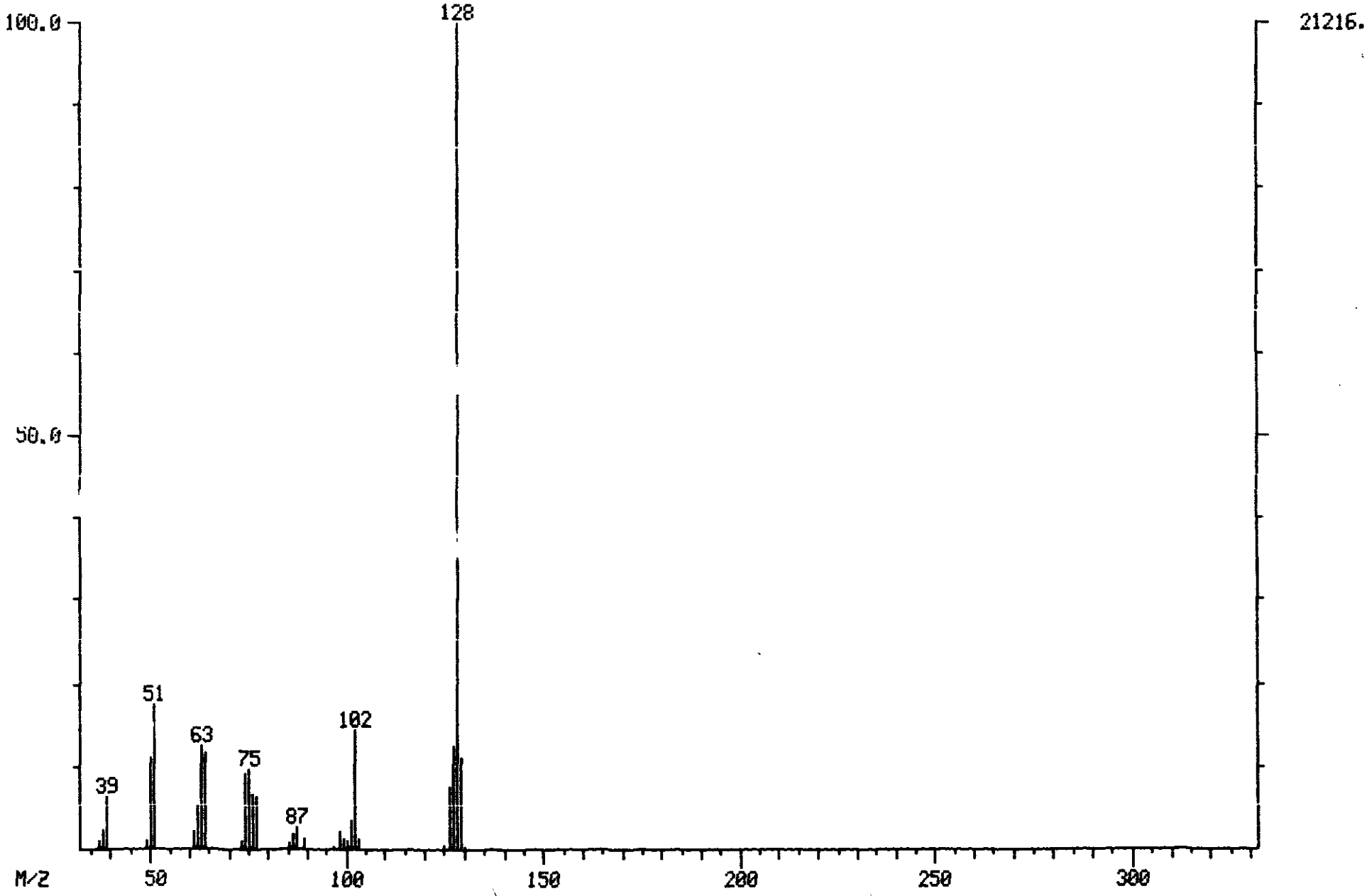


ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 12:38
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 P#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
** NAME: C450 NAPHTHALENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #758
CALI: T2633 #2

BASE M/Z: 128
RIC: 56704.



100286

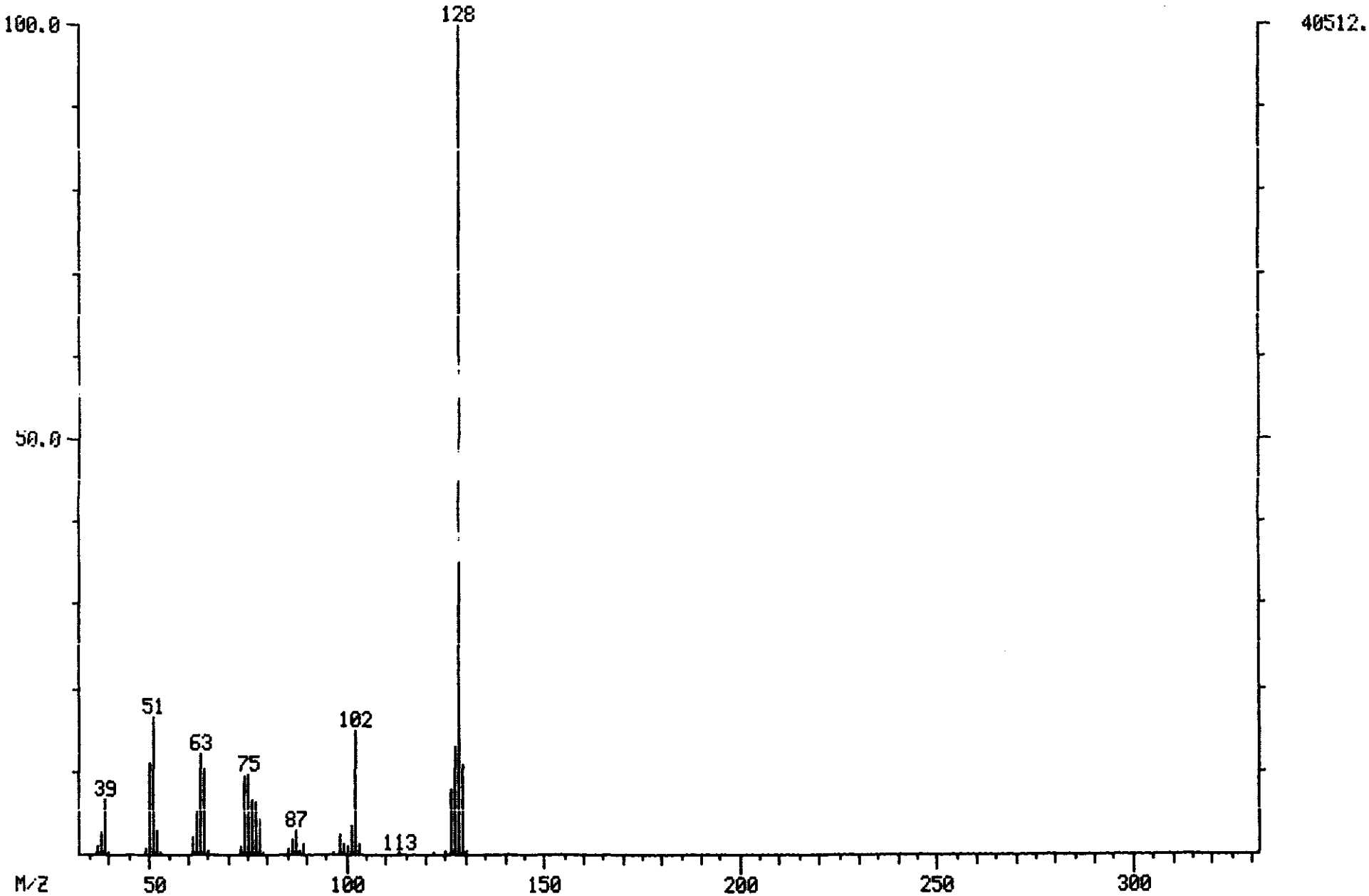
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 12:38
SAMPLE: CLP,,,SSTD50,,,22658,E,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C450 NAPHTHALENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #758
CALI: T2624 #2

BASE M/Z: 128
RIC: 111744.

100287

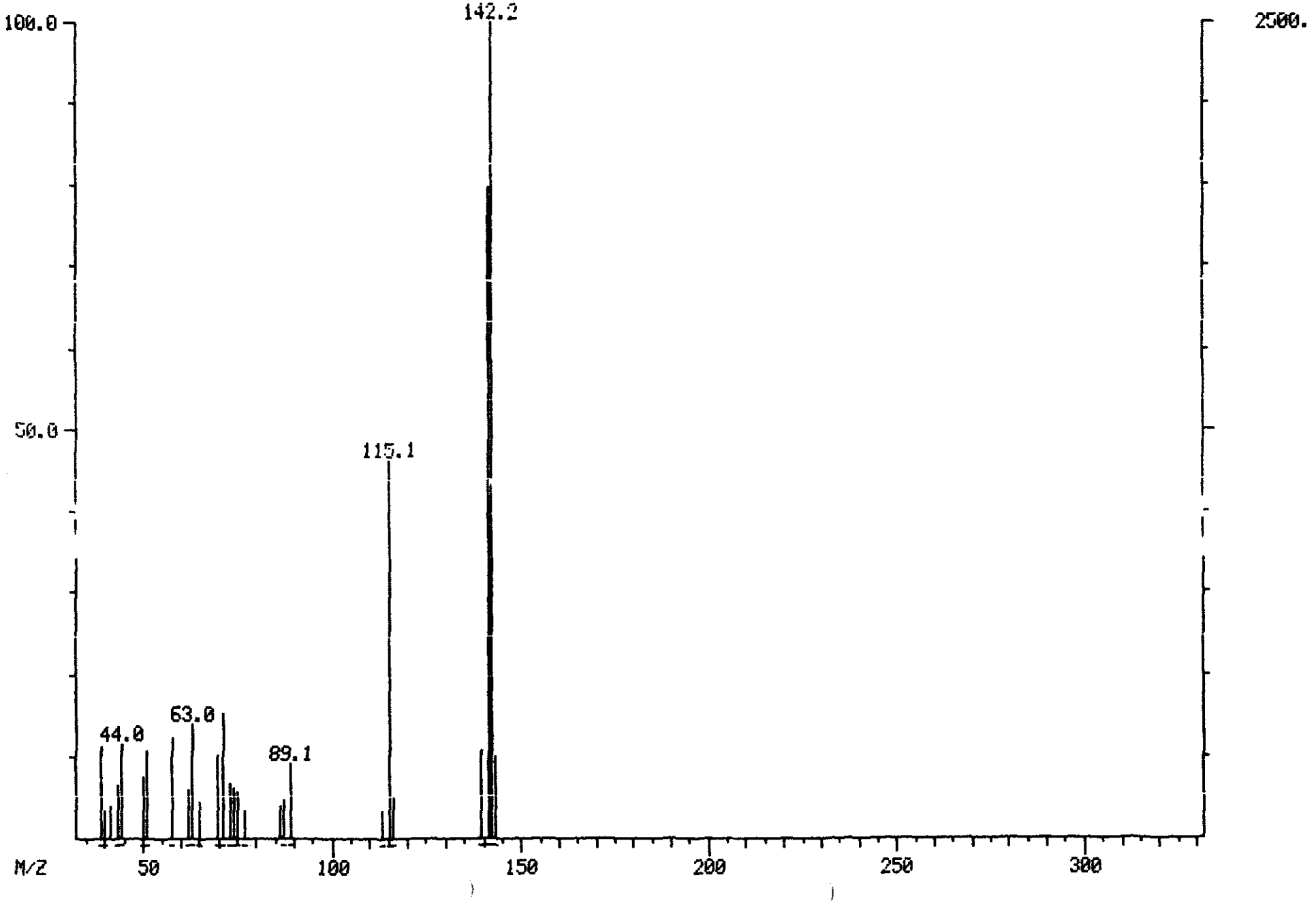


ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 14:45
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C470 2-METHYLNAPHTHALENE

DATA: T2633 #885
CALI: T2633 #2

BASE M/Z: 142
RIC: 10336.



10028

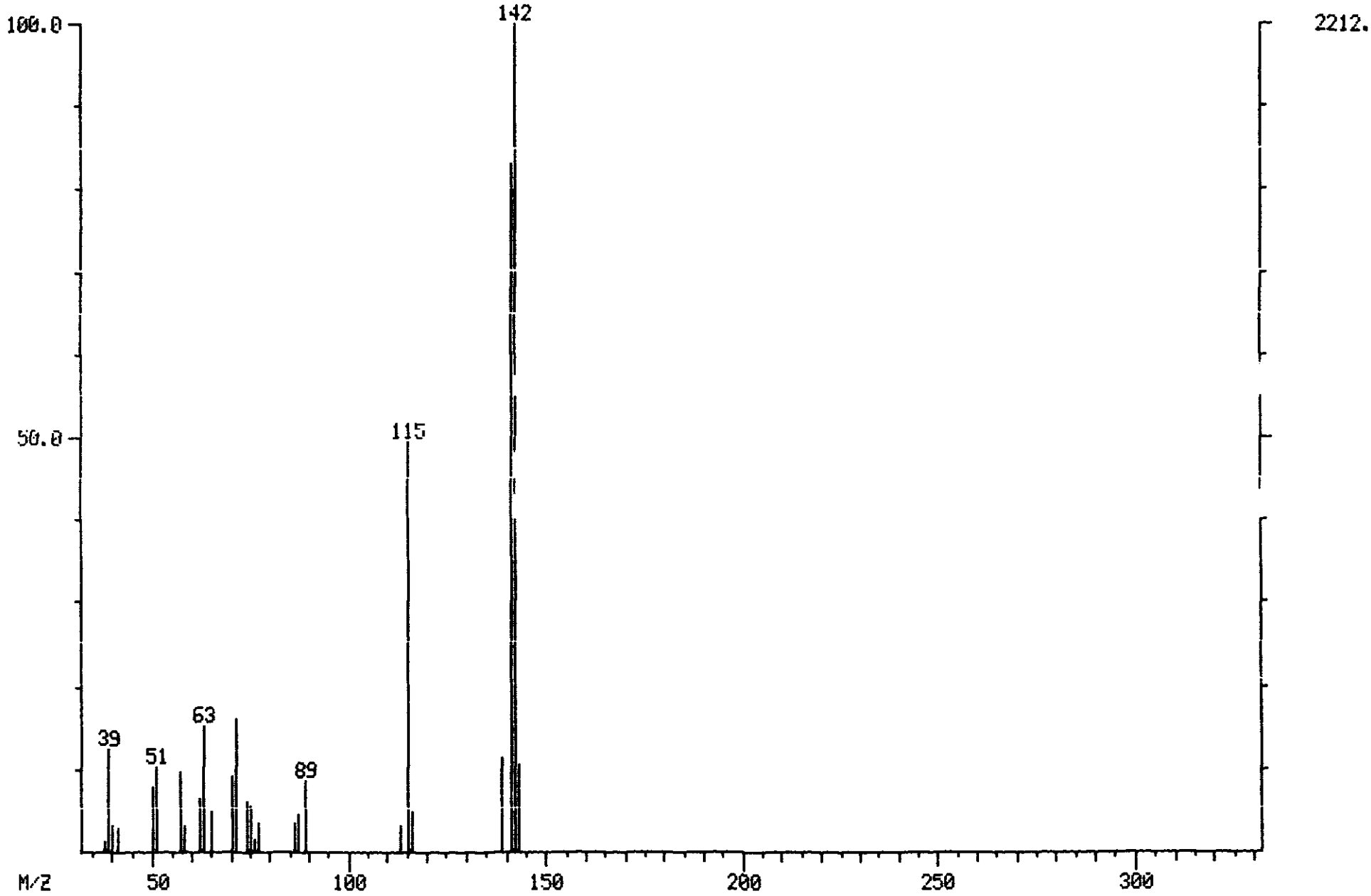
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 14:45
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C470 2-METHYLNAPHTHALENE
ENHANCED (5 15B 2N 0T)

DATA: T2633 #885
CALI: T2633 #2

BASE M/Z: 142
RIC: 8848.

100289



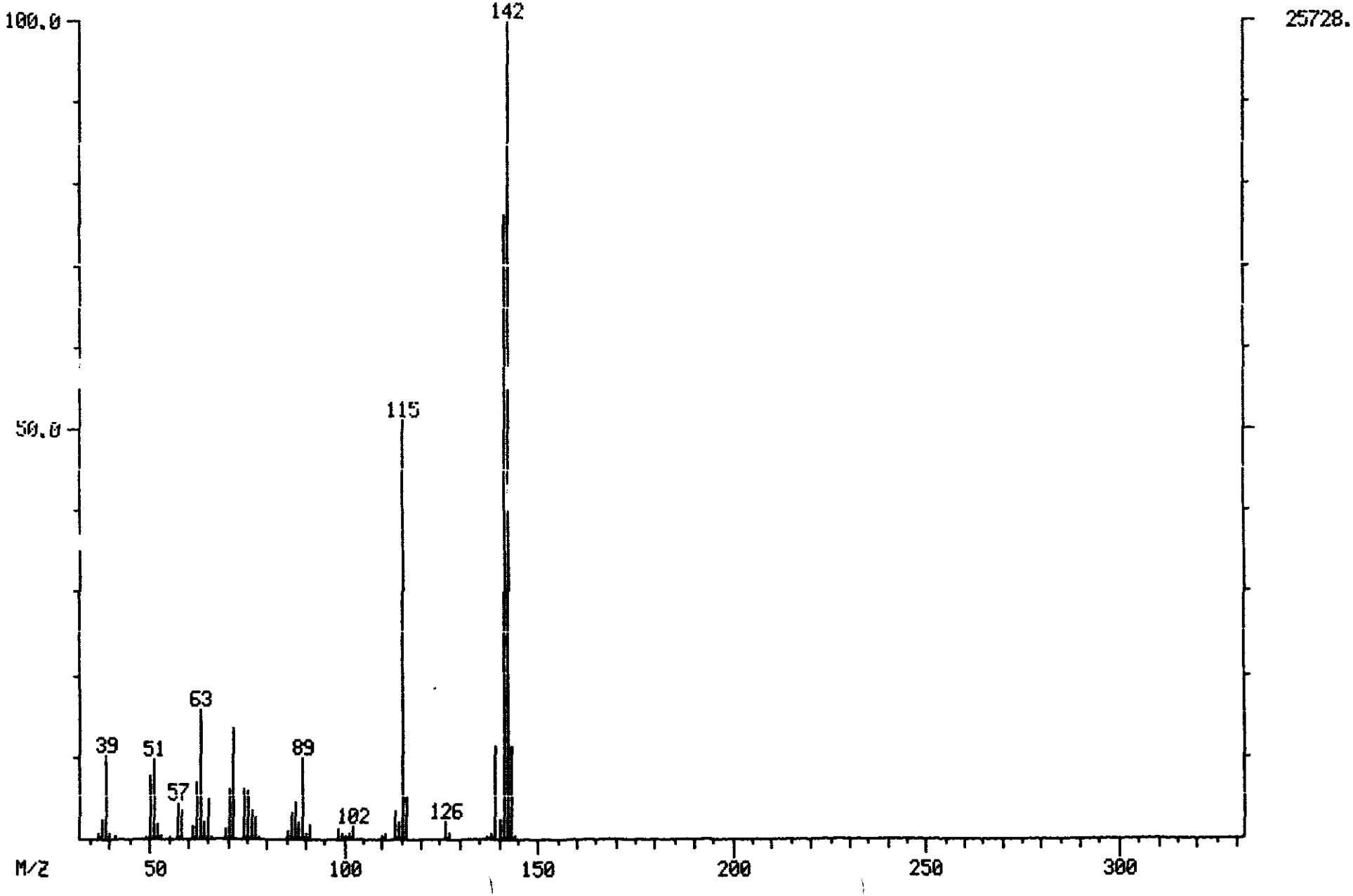
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 14:45
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C470 2-METHYLNAPHTHALENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #885
CALI: T2624 #2

BASE M/Z: 142
RIC: 106496.

100290



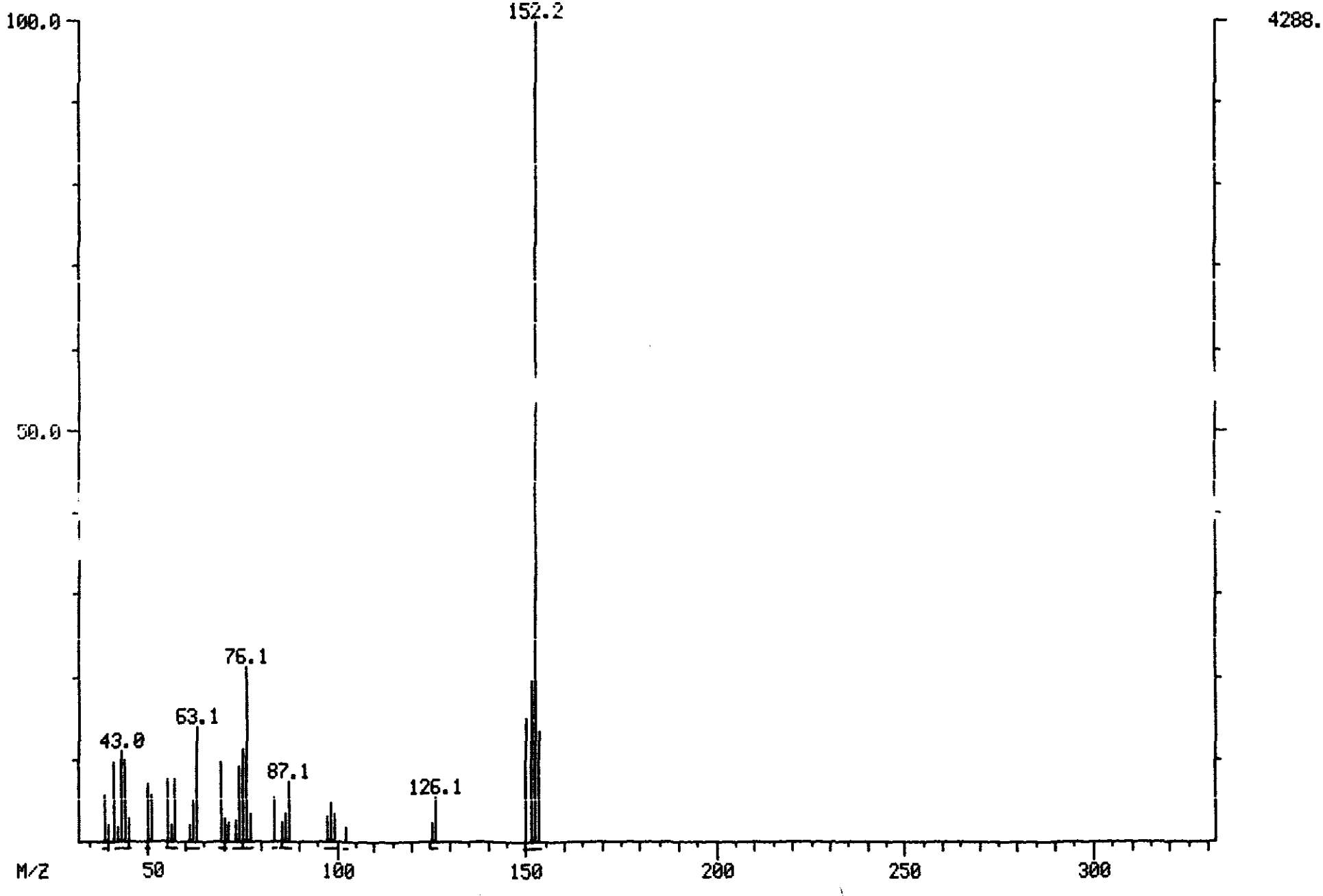
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 17:37
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C540 ACENAPHTHYLENE

DATA: T2633 #1057
CALI: T2633 #2

BASE M/Z: 152
RIC: 14784.

10029



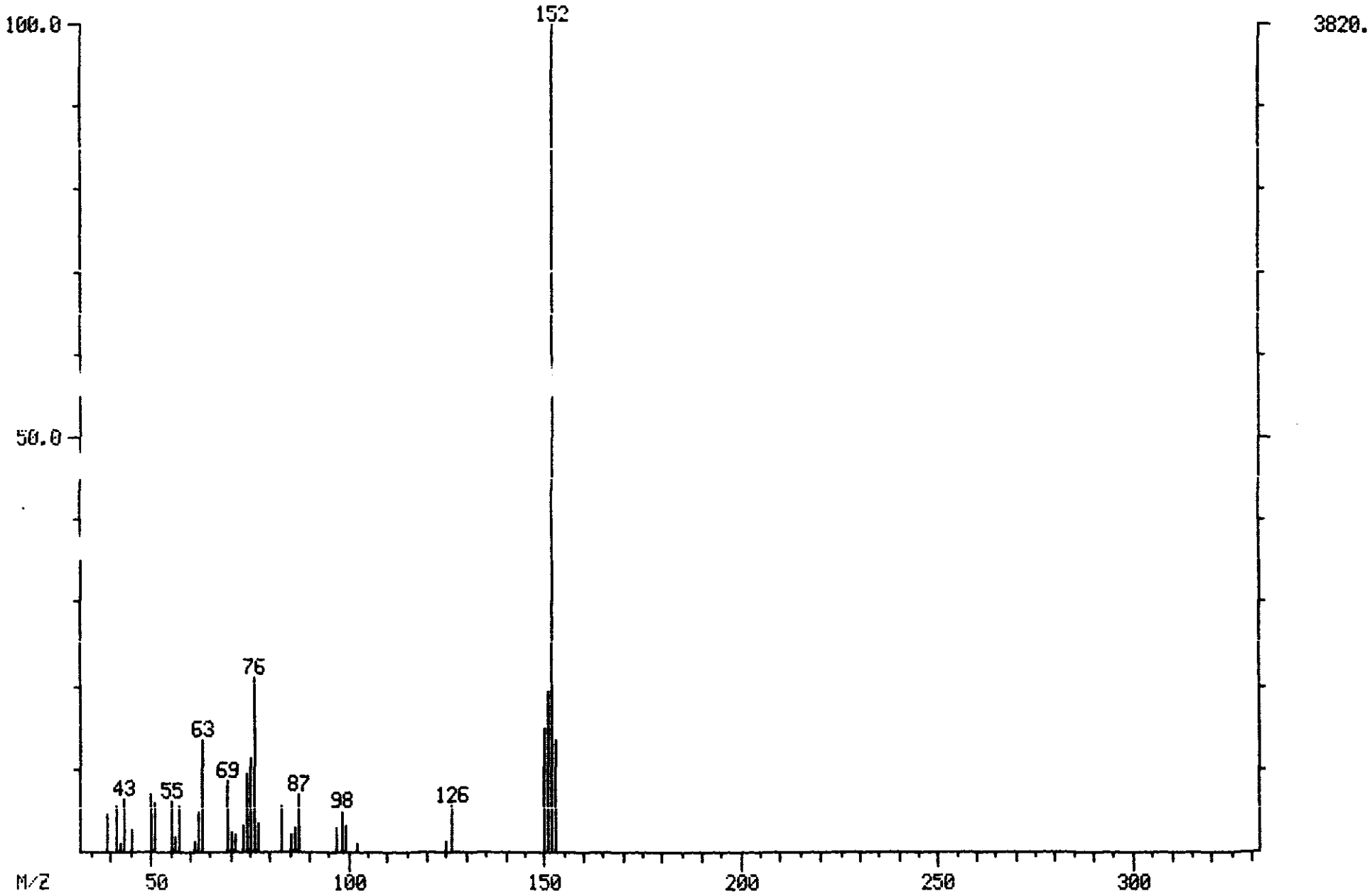
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 17:37
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 E#2,1UL,
CONDS.· INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C540 ACENAPHTHYLENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #1057
CALI: T2633 #2

BASE M/Z: 152
RIC: 11984.

10029



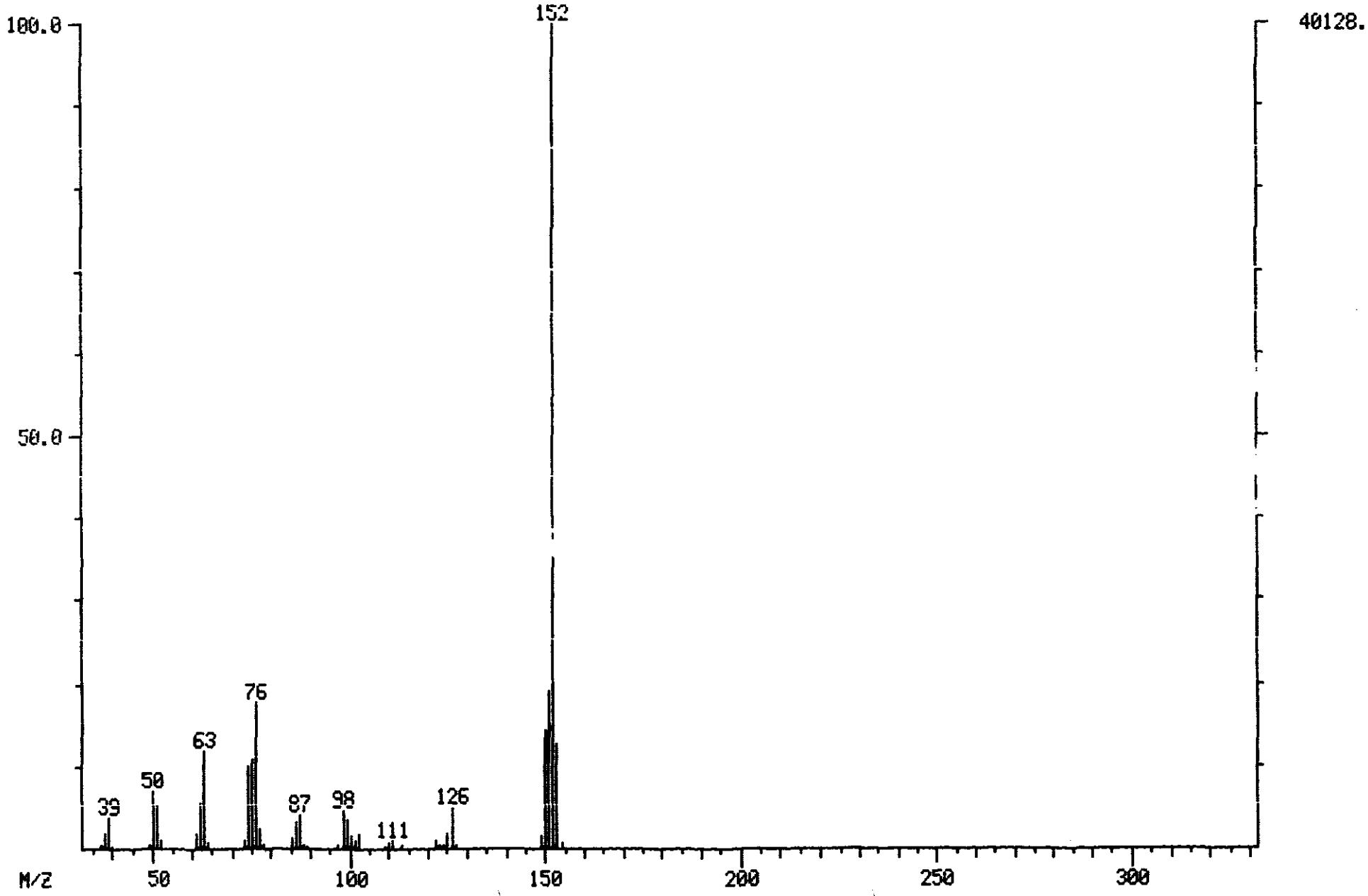
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 17:37
SAMPLE: CLP,,,SSTD50,,,2265S,B,CC050,,,1UL,
CONDS.: INST T COLUMN=PESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C540 ACENAPHTHYLENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1057
CALI: T2624 #2

BASE M/Z: 152
RIC: 107520.

100293



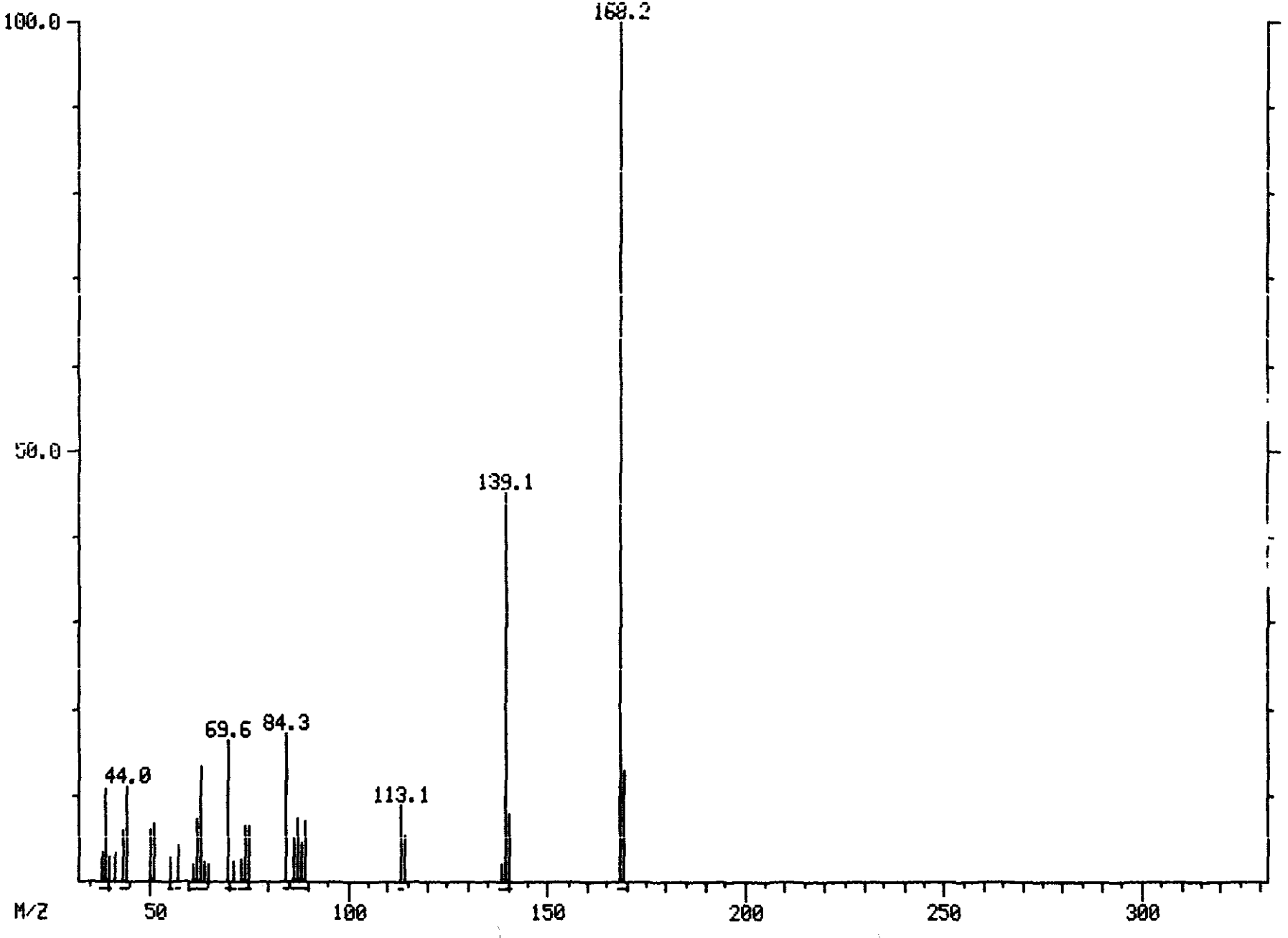
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 18:43
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C565 DIBENZOFURAN

DATA: T2633 #1123
CALI: T2633 #2

BASE M/Z: 168
RIC: 13712.

100294



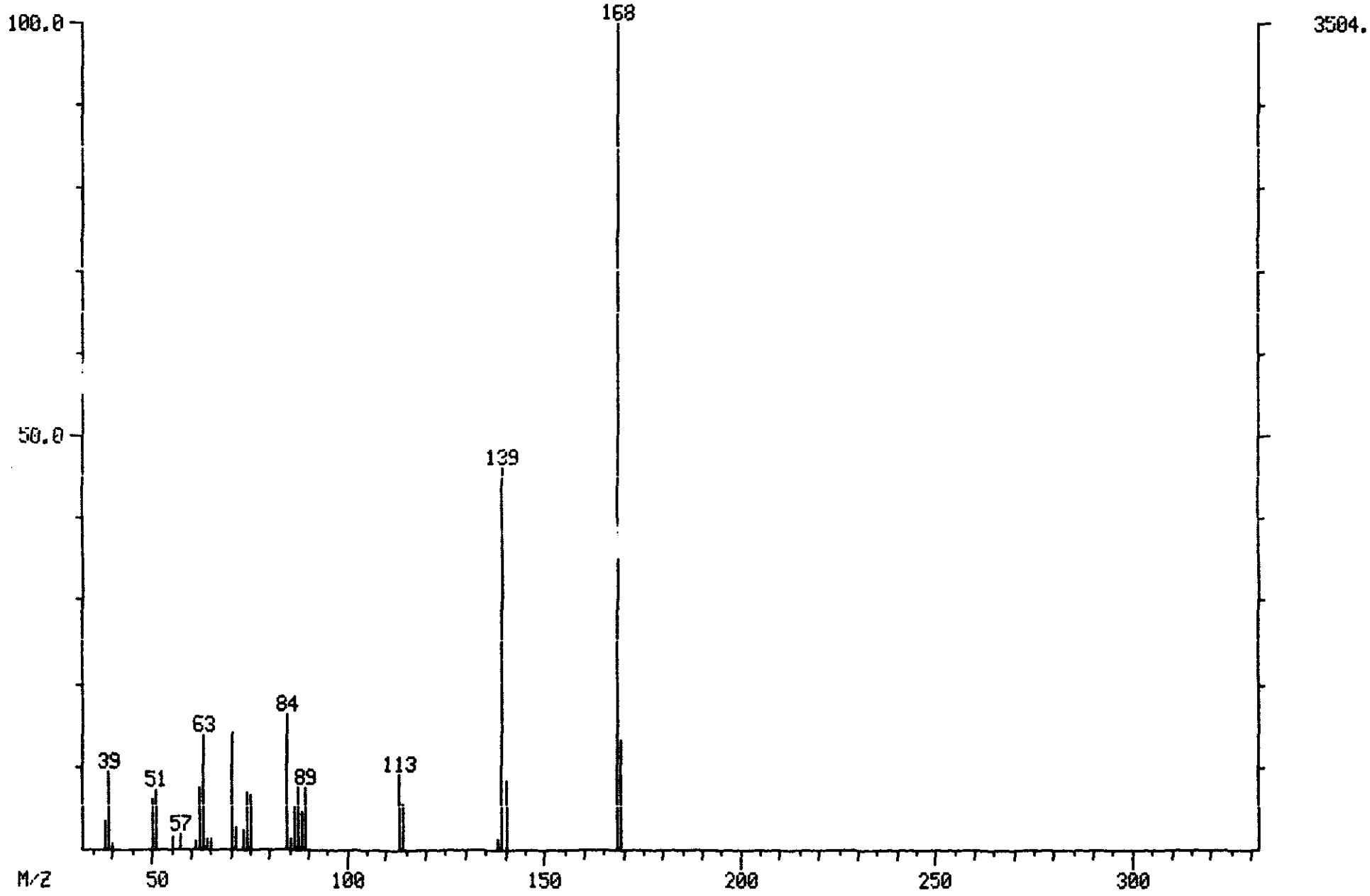
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 18:43
SAMPLE. CLP,VERSCDM,2556,7,L,S,16424,6,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C565 DIBENZOFURAN
ENHANCED (S 15B 2N 0T)

DATA: T2633 #1123
CALI: T2633 #2

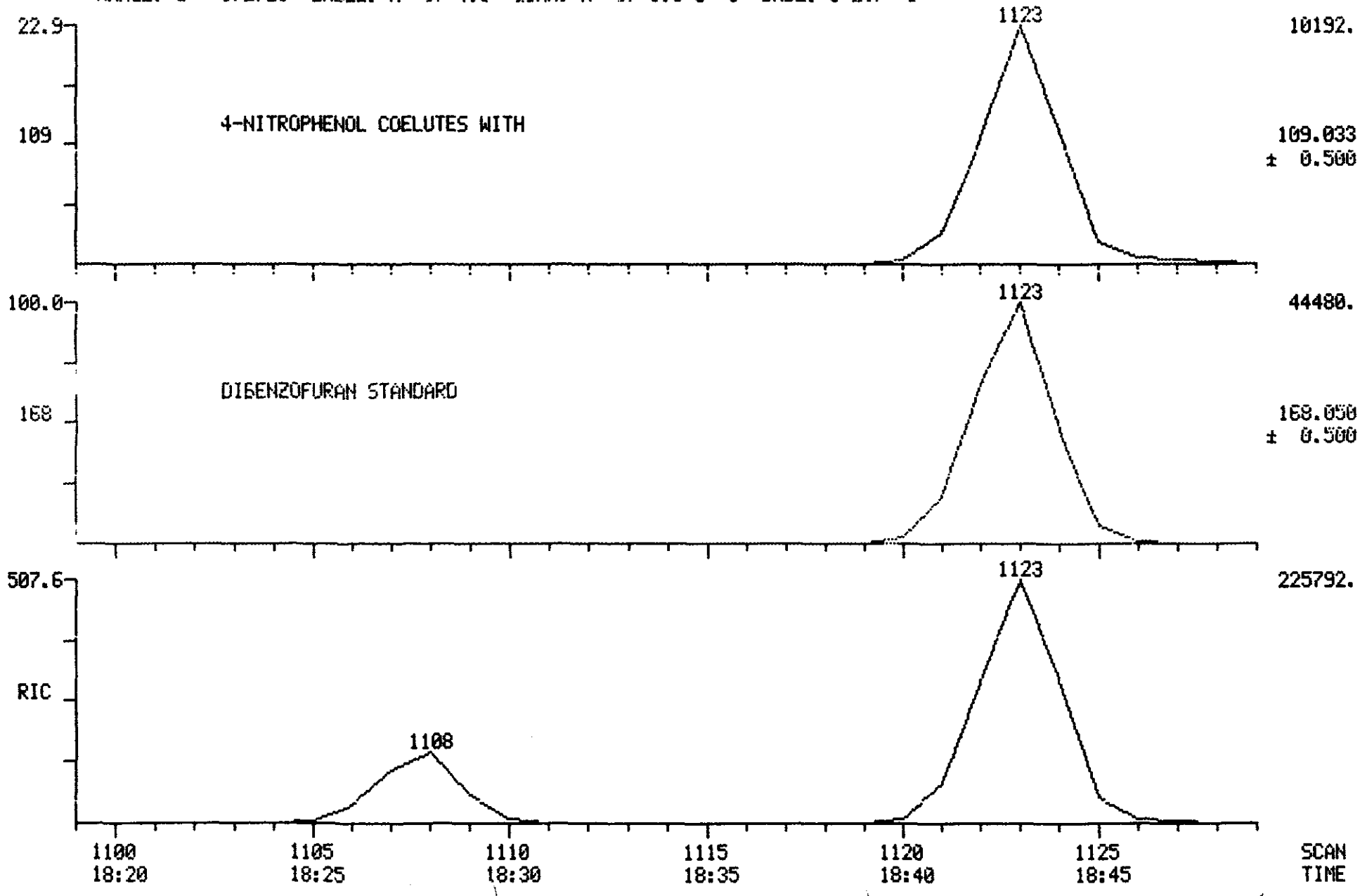
BASE M/Z: 168
RIC: 11056.

100295



ORIGINAL (Red)

RIC+MASS CHROMATOGRAMS DATA: T2624 #1114 SCANS 1099 TO 1129
05/16/90 17:01:00 CALI: T2624 #2
SAMPLE: CLP,,,SSTD50,,,22653,P,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
C565 DIBENZOFURAN
RANGE: C 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



00296

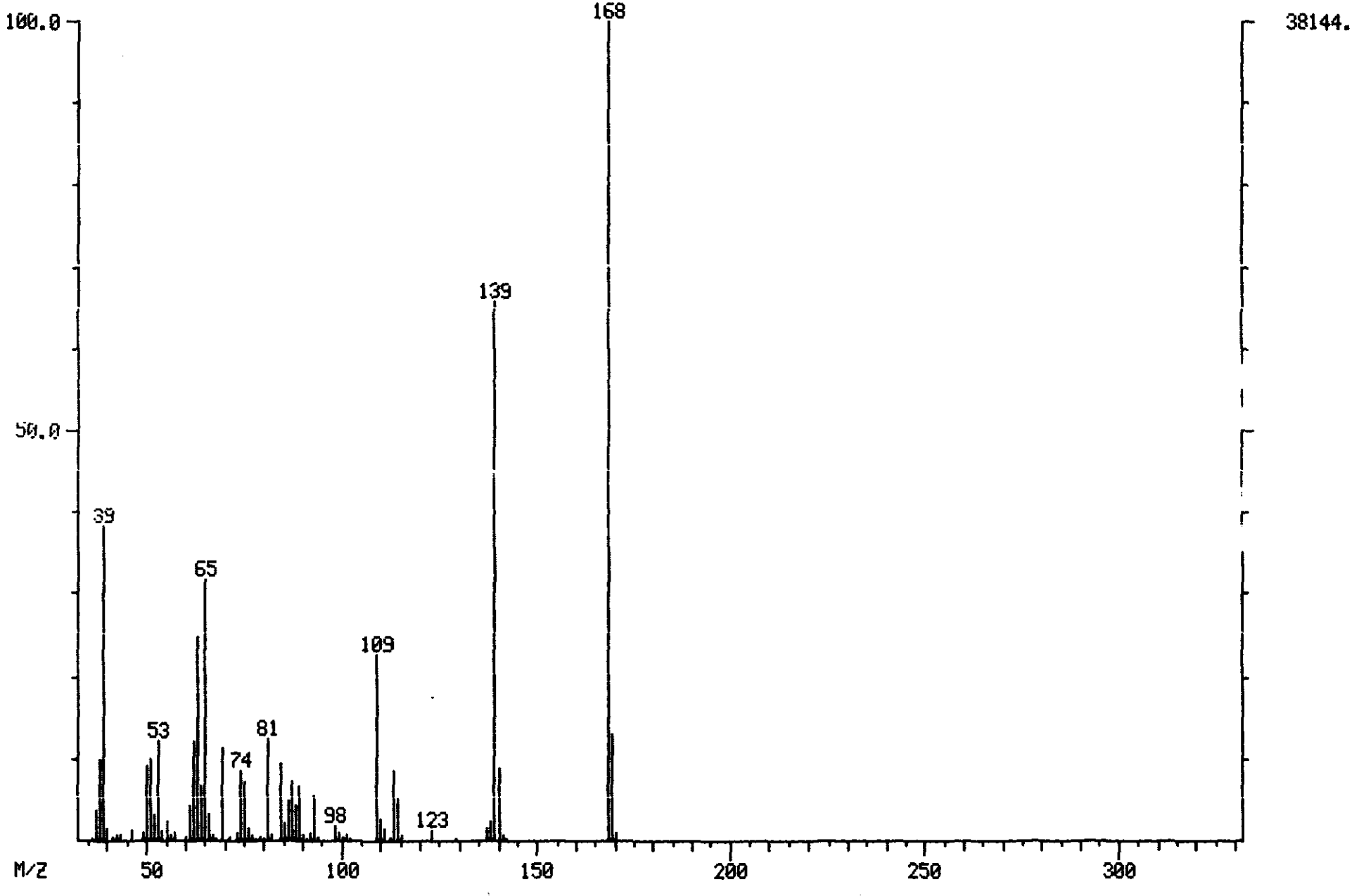
100297

ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 13:43
SAMPLE: CLP,,,SSTD50,,,22652,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
** NAME: C565 DIBENZOFURAN
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1123
CALI: T2624 #2

BASE M/Z: 168
RIC: 196096.



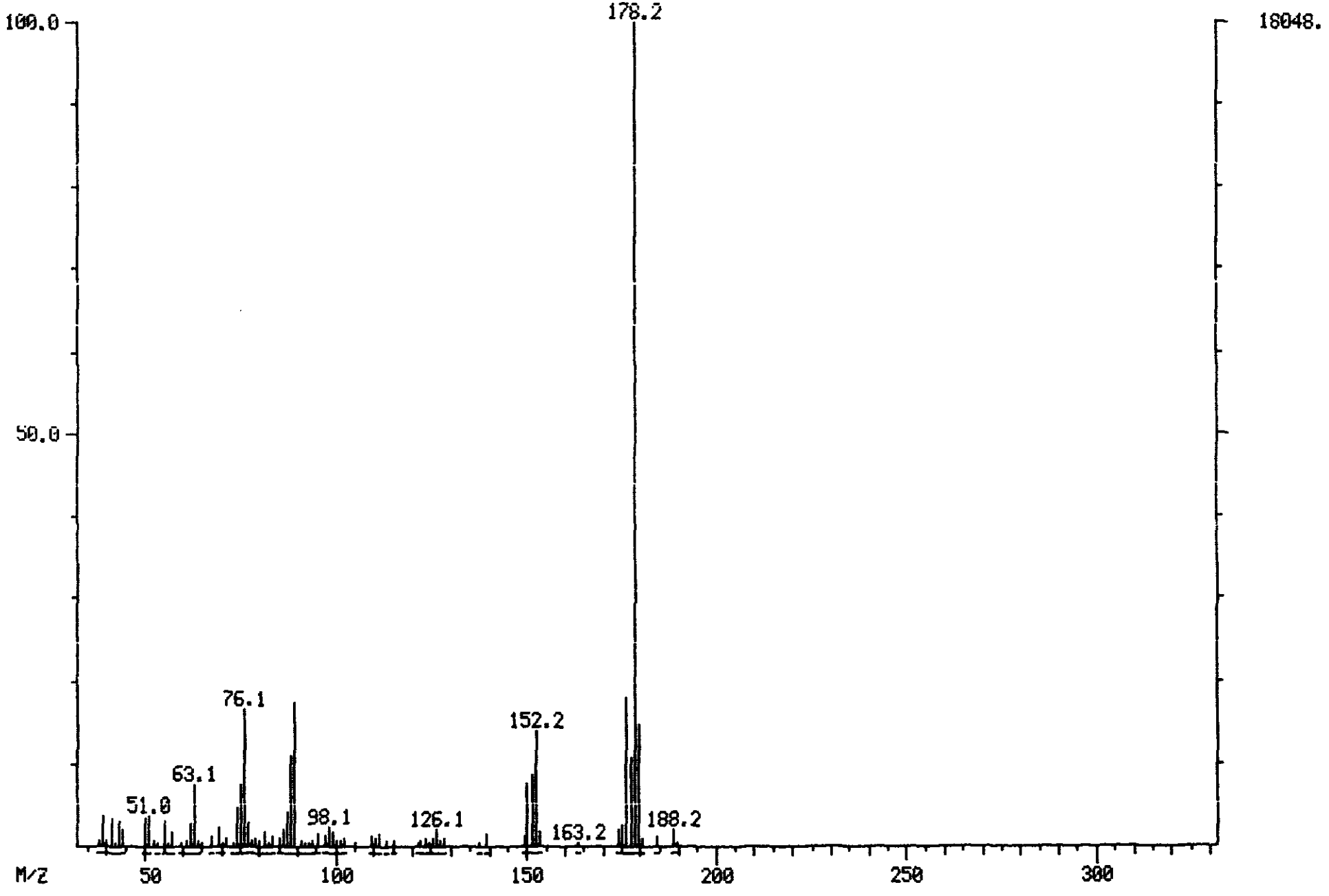
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 22:54
SAMPLE: CLP,VERSCOM,2536,7,L,5,16424,E,,420.1 E#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
** NAME: C640 PHENANTHRENE

DATA: T2633 #1374
CALI: T2633 #2

BASE M/Z: 178
RIC: 61440.

100298



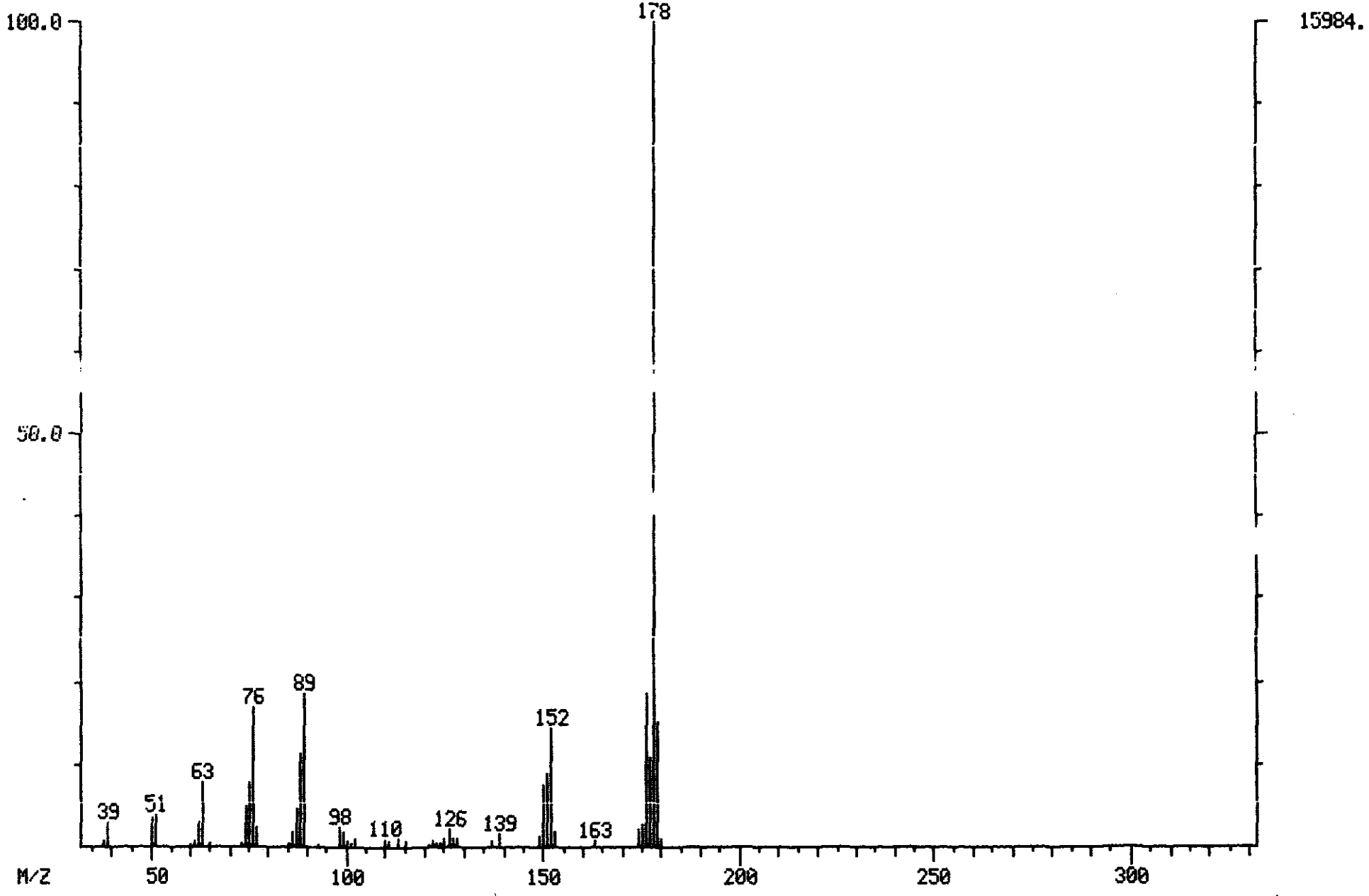
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 22:54
SAMPLE: CLP,VEPSCDM,2556,7,L,5,16424,B,,420.1 E#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C640 PHENANTHRENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #1374
CALI: T2633 #2

BASE M/Z: 178
RIC: 47872.

10029



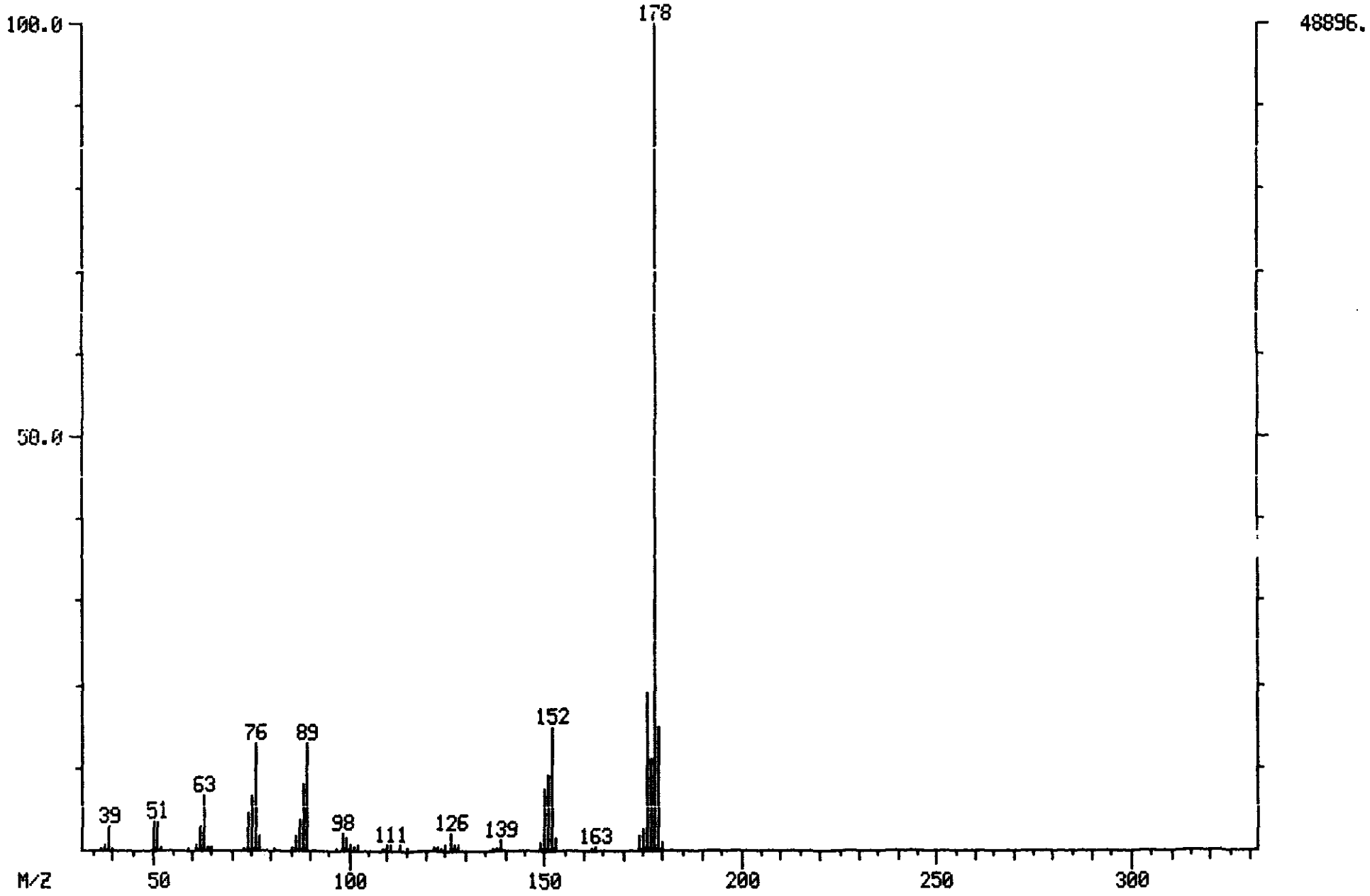
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 22:54
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C640 PHENANTHRENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1374
CALI: T2624 #2

BASE M/Z: 178
RIC: 136960.

100300



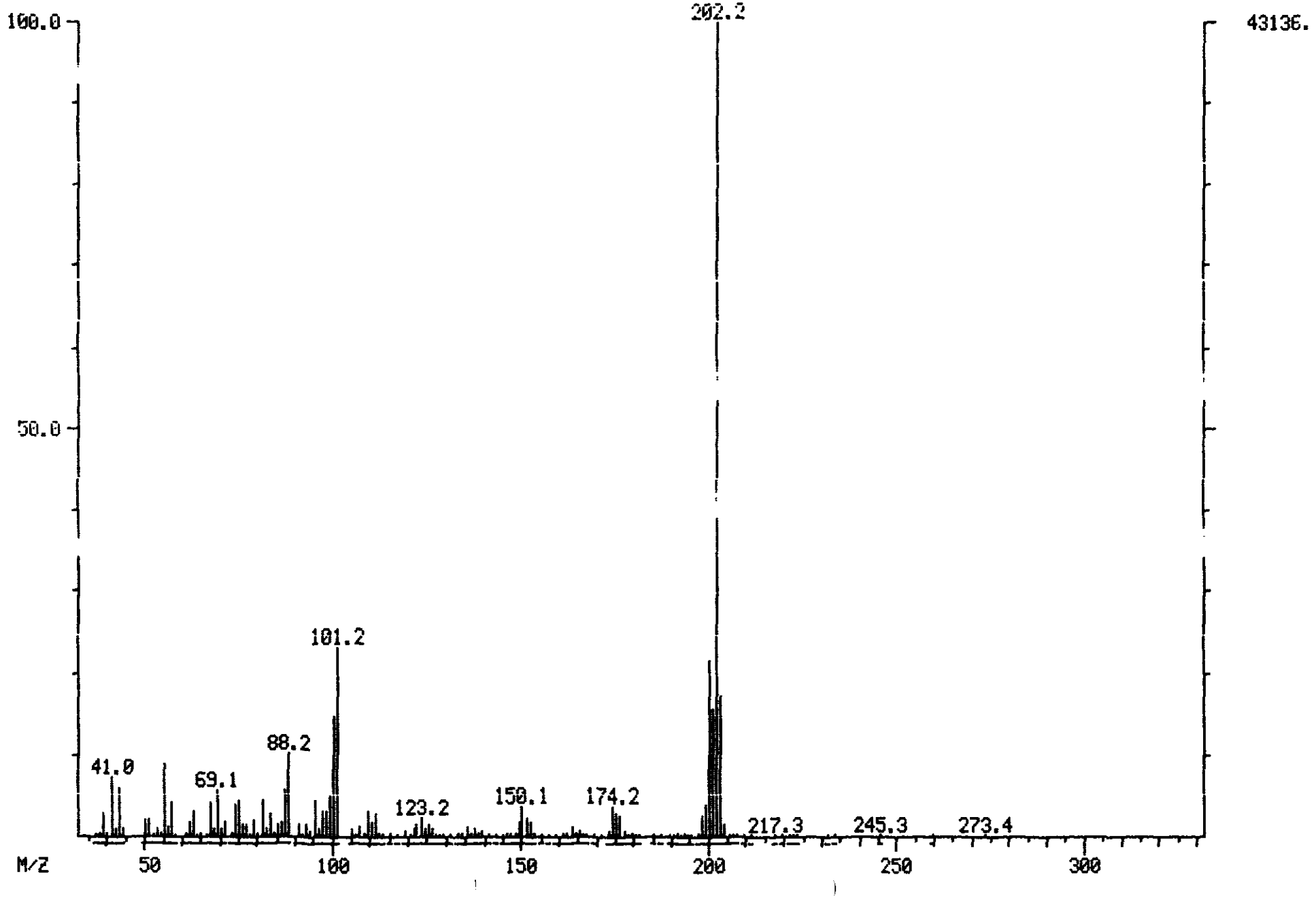
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 26:47
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C655 FLUORANTHENE

DATA: T2633 #1607
CALI: T2633 #2

BASE M/Z: 202
RIC: 169472.

100301

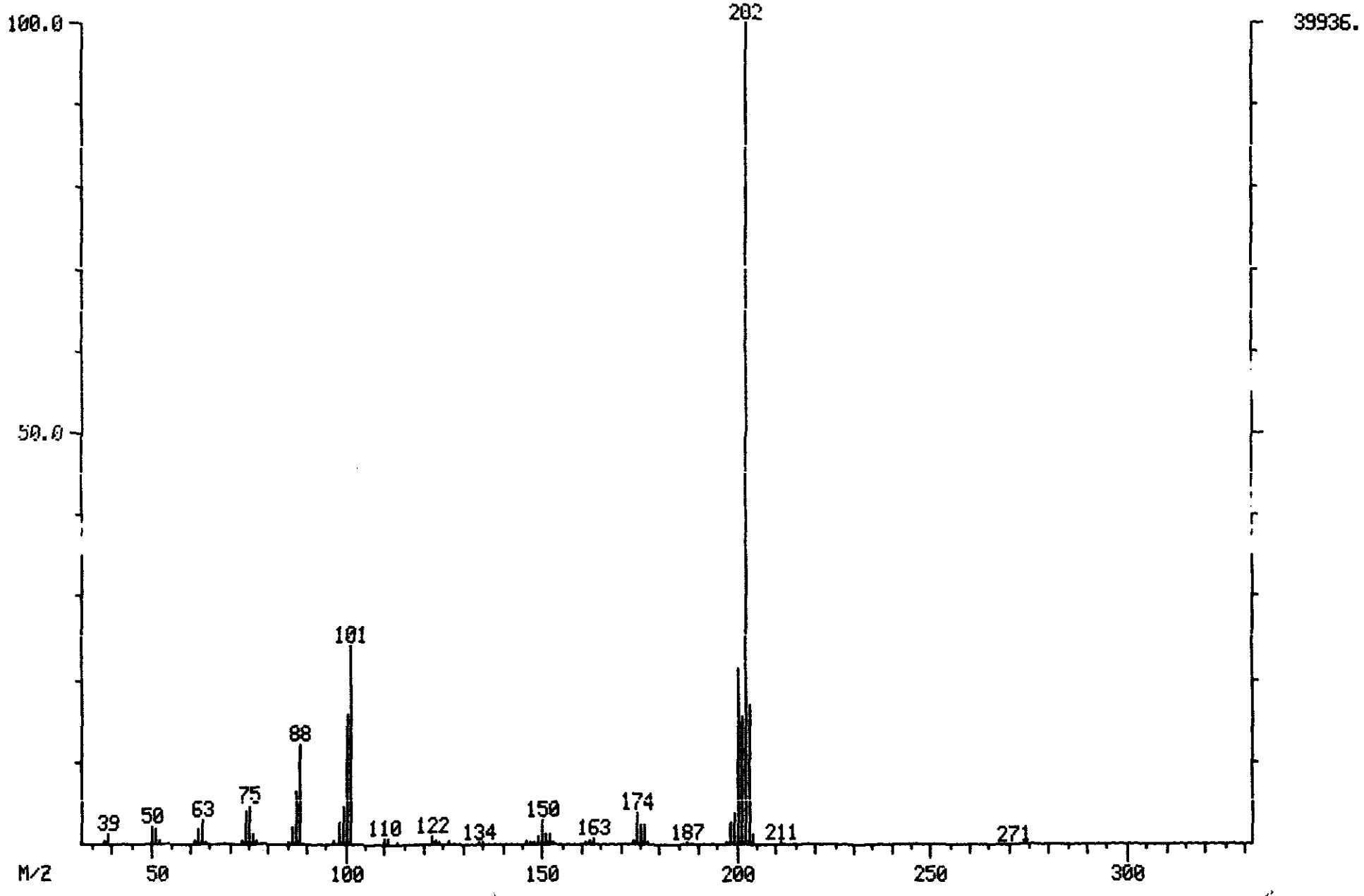


MASS SPECTRUM
05/17/90 1:56:00 + 26:47
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302C@C/MIN
** NAME: C655 FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #1607
CALI: T2633 #2

BASE M/Z: 202
RIC: 111360.

10030



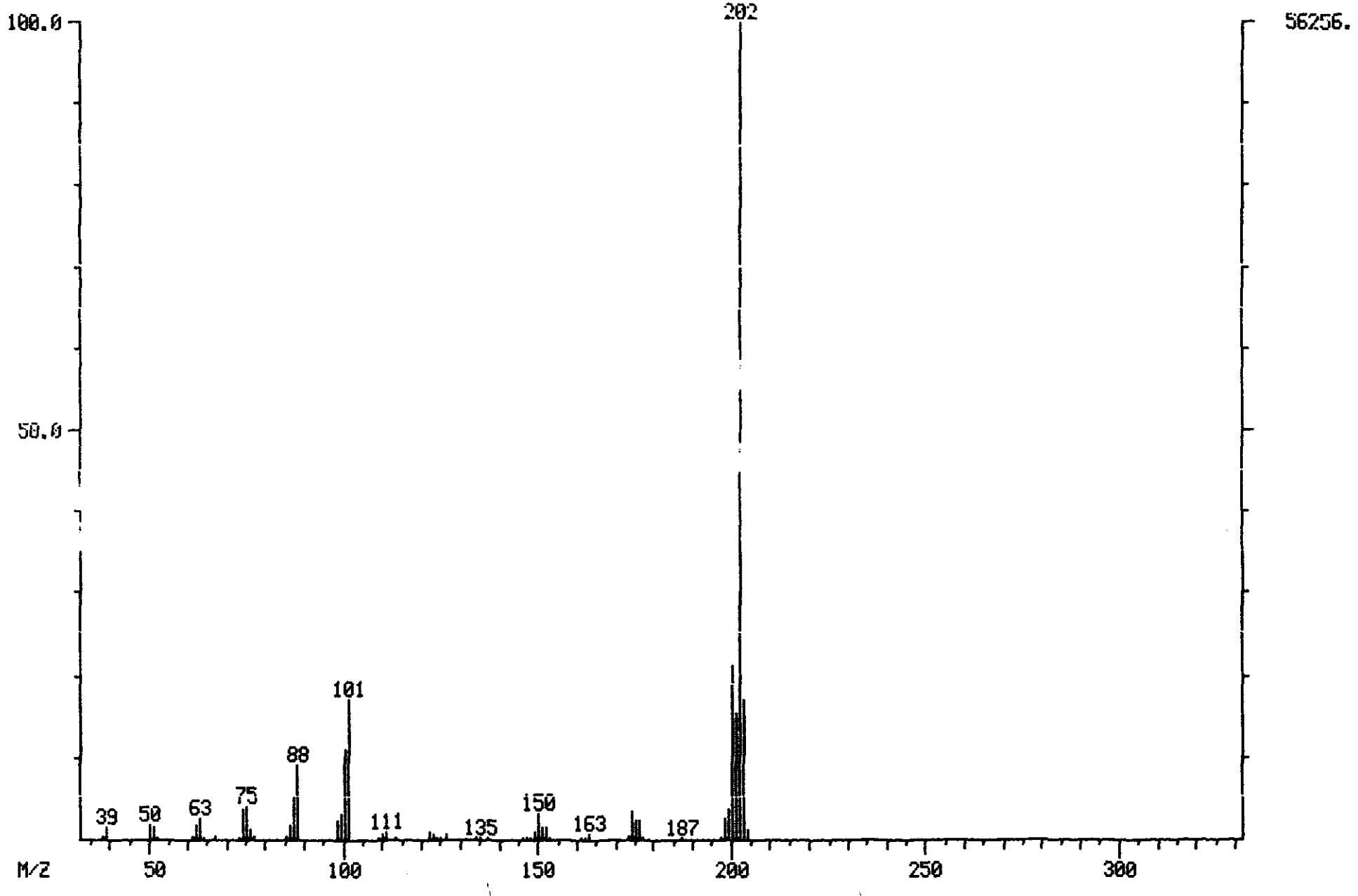
ORIGINAL (Red)

100303

MASS SPECTRUM
05/16/90 17:01:00 + 26:47
SAMPLE: CLP,,,SSTD50,,,22G59,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 302@8C/MIN
** NAME: C655 FLUORANTHENE
ENHANCED (5 15B 2N 0T)

DATA: T2624 #1607
CALI: T2624 #2

BASE M/Z: 202
RIC: 146588.



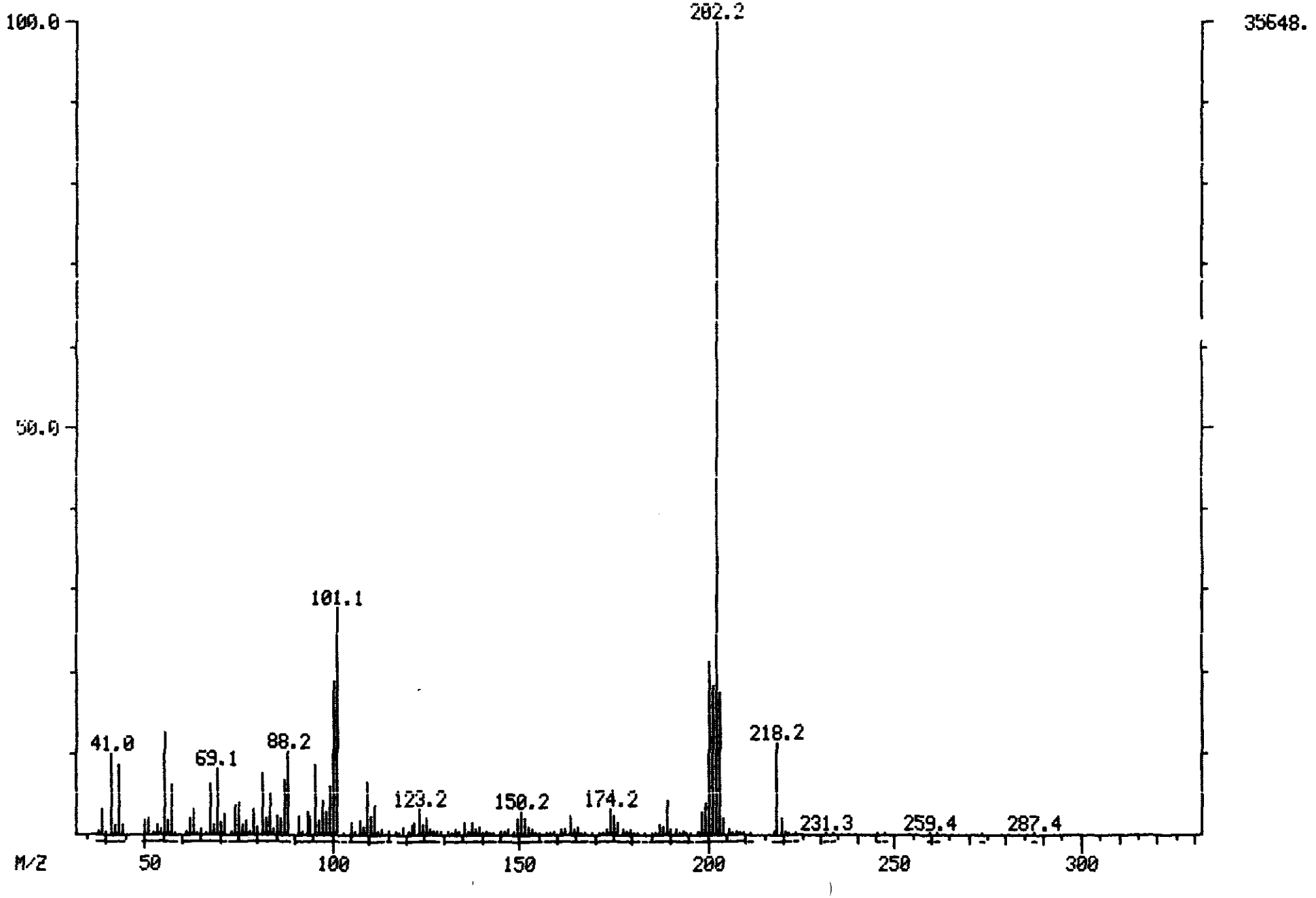
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 27:30
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
** NAME: C715 PYRENE

DATA: T2633 #1650
CALI: T2633 #2

BASE M/Z: 202
RIC: 171520.

100304



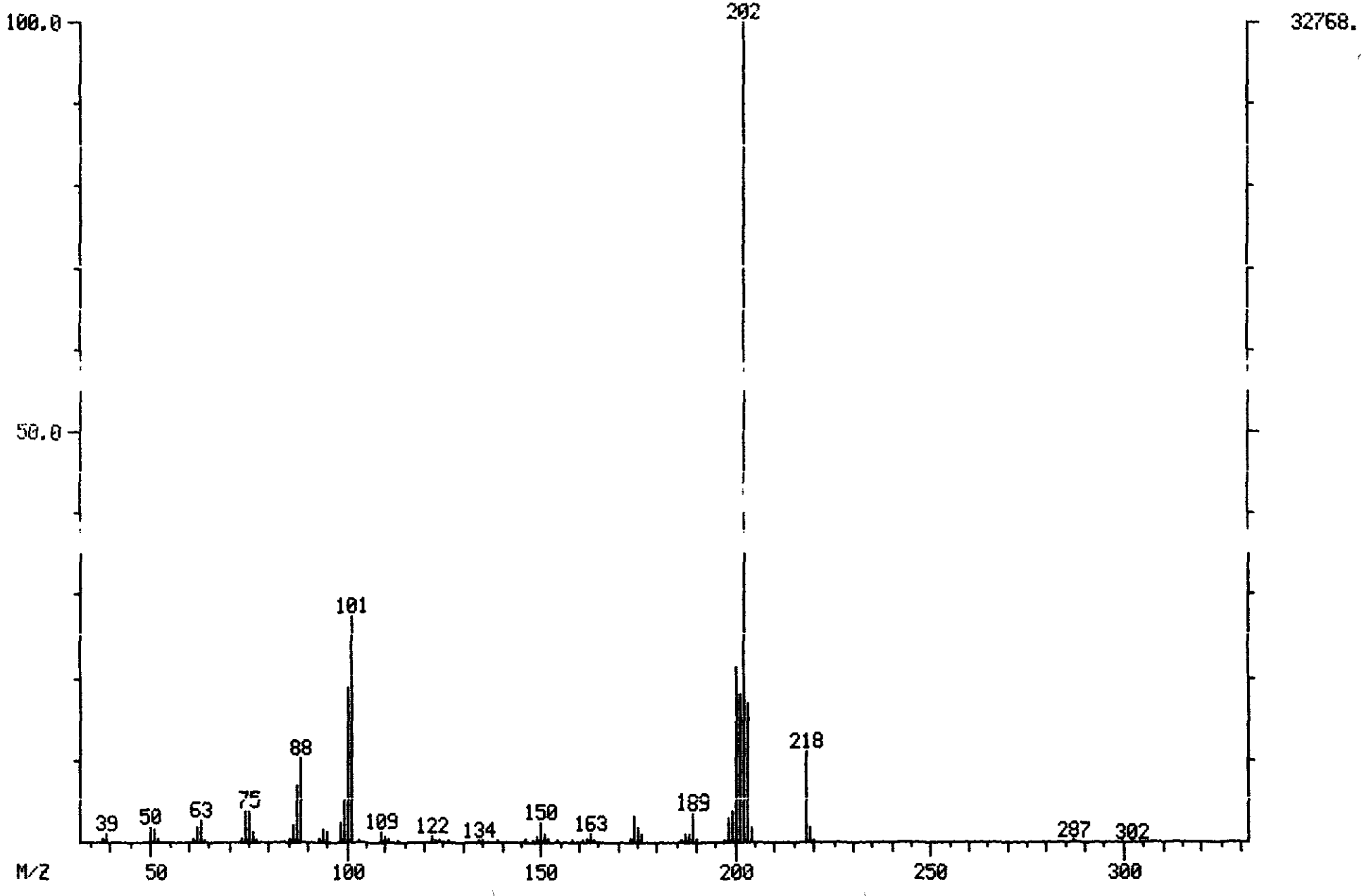
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 27:30
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C715 PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #1650
CALI: T2633 #2

BASE M/Z: 202
RIC: 100096.

100305



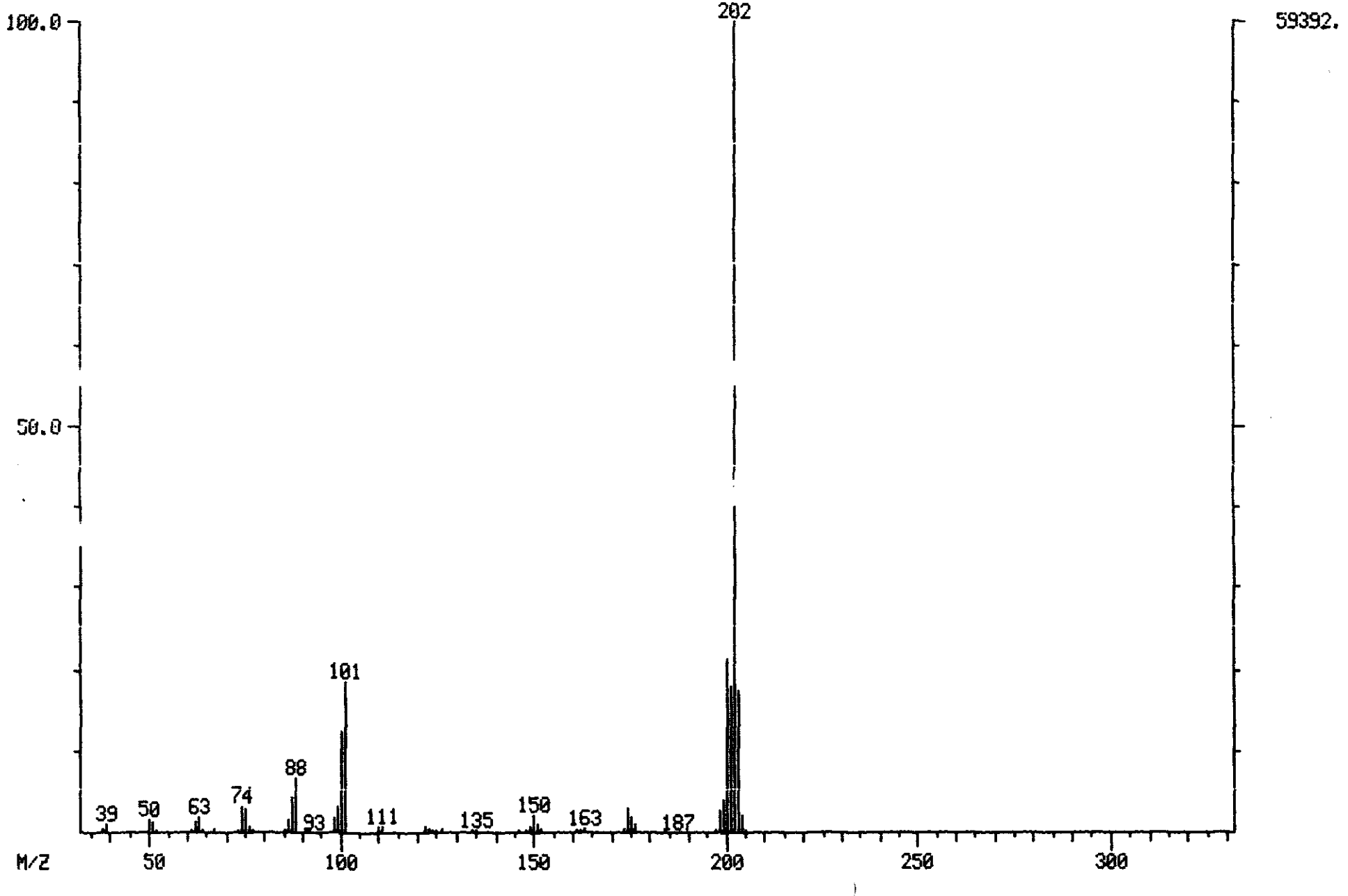
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 27:30
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C715 PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1650
CALI: T2624 #2

BASE M/Z: 202
RIC: 149248.

100306



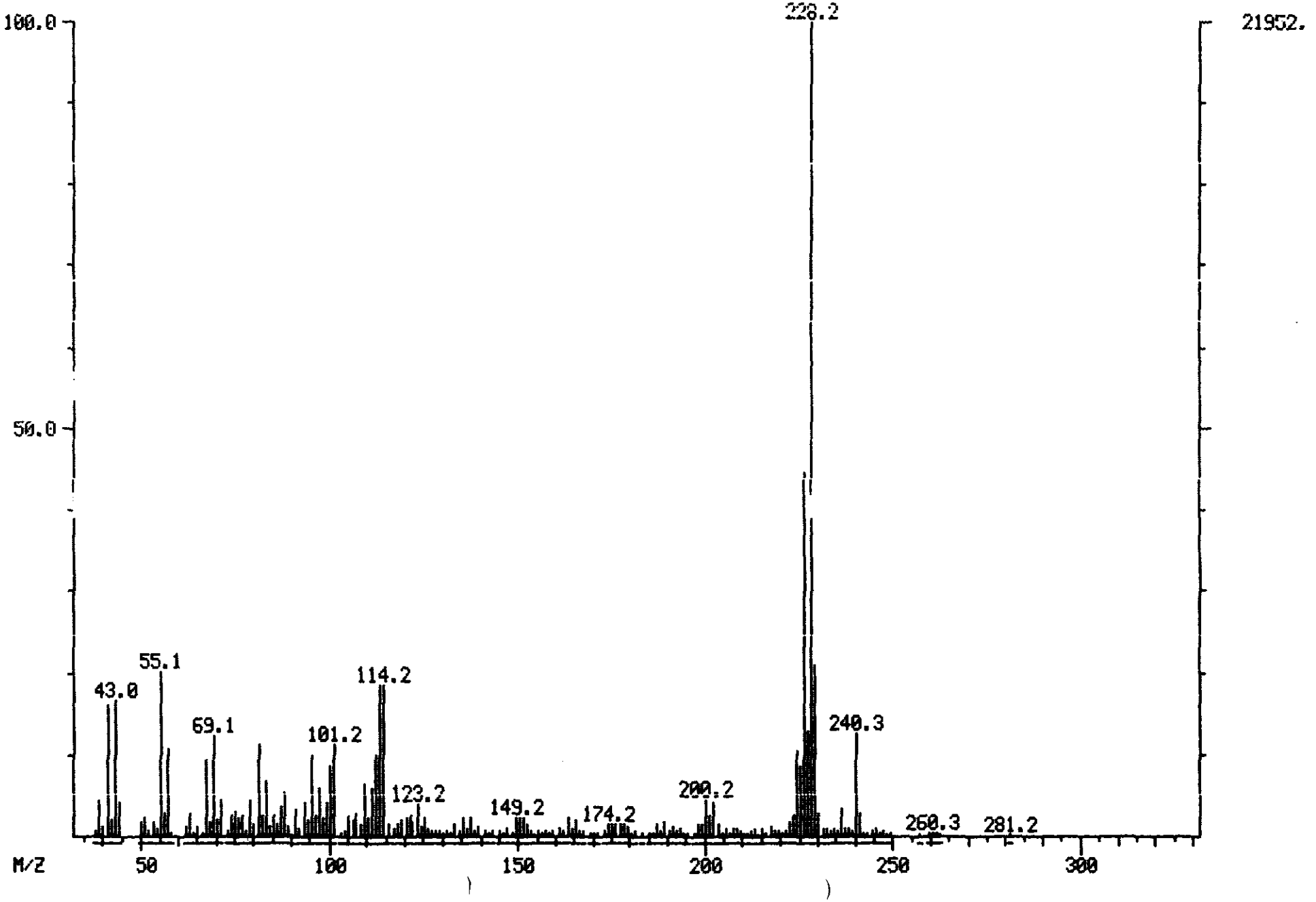
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 31:24
SAMPLE: CLP,VERSCOM,2536,7,L,5,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C730 BENZO(A)ANTHRACENE

DATA: T2633 #1884
CALI: T2633 #2

BASE M/Z: 228
RIC: 147456.

100307



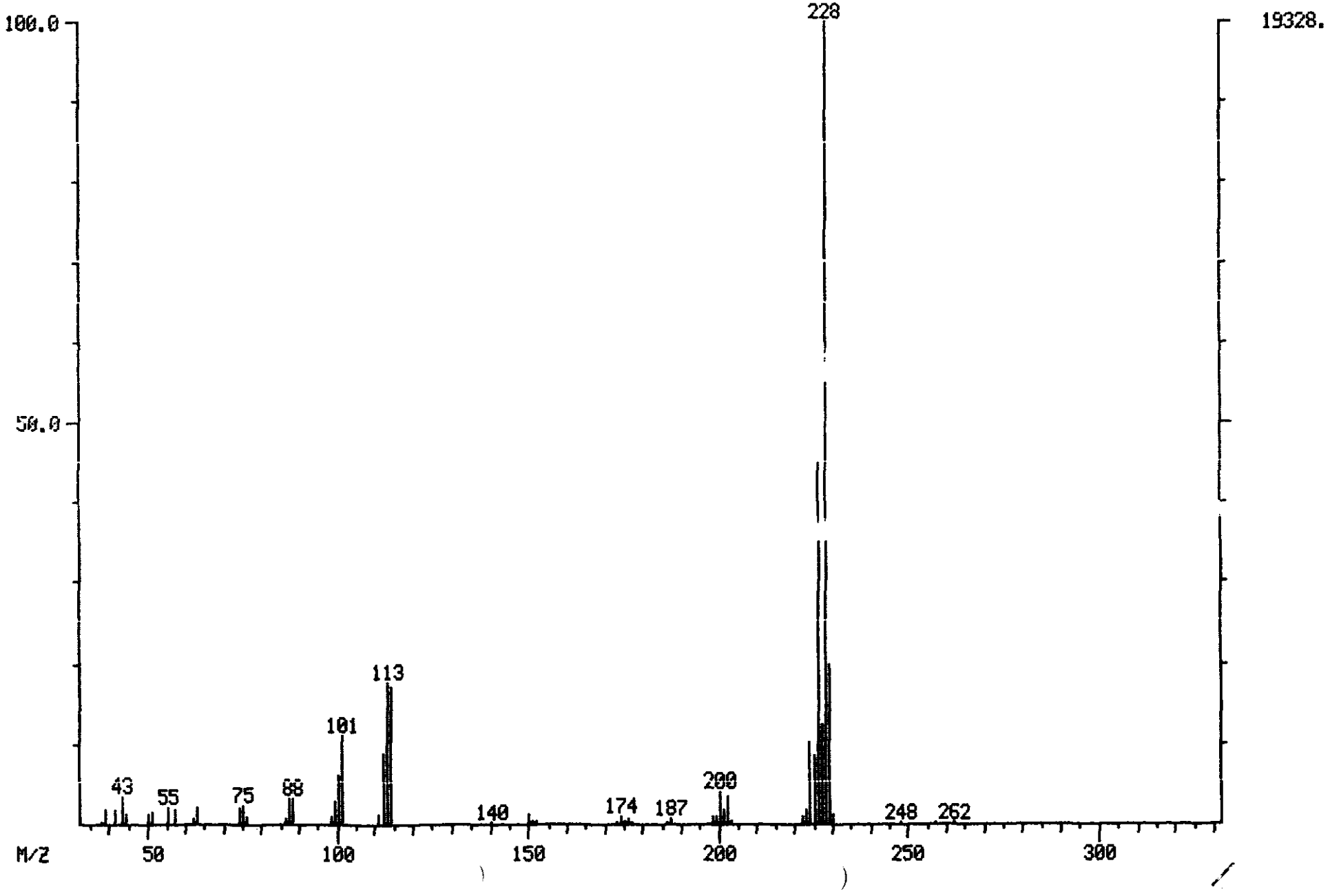
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 31:24
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.· INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C730 BENZO(A)ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #1884
CALI: T2633 #2

BASE M/Z: 228
RIC: 61760.

100303



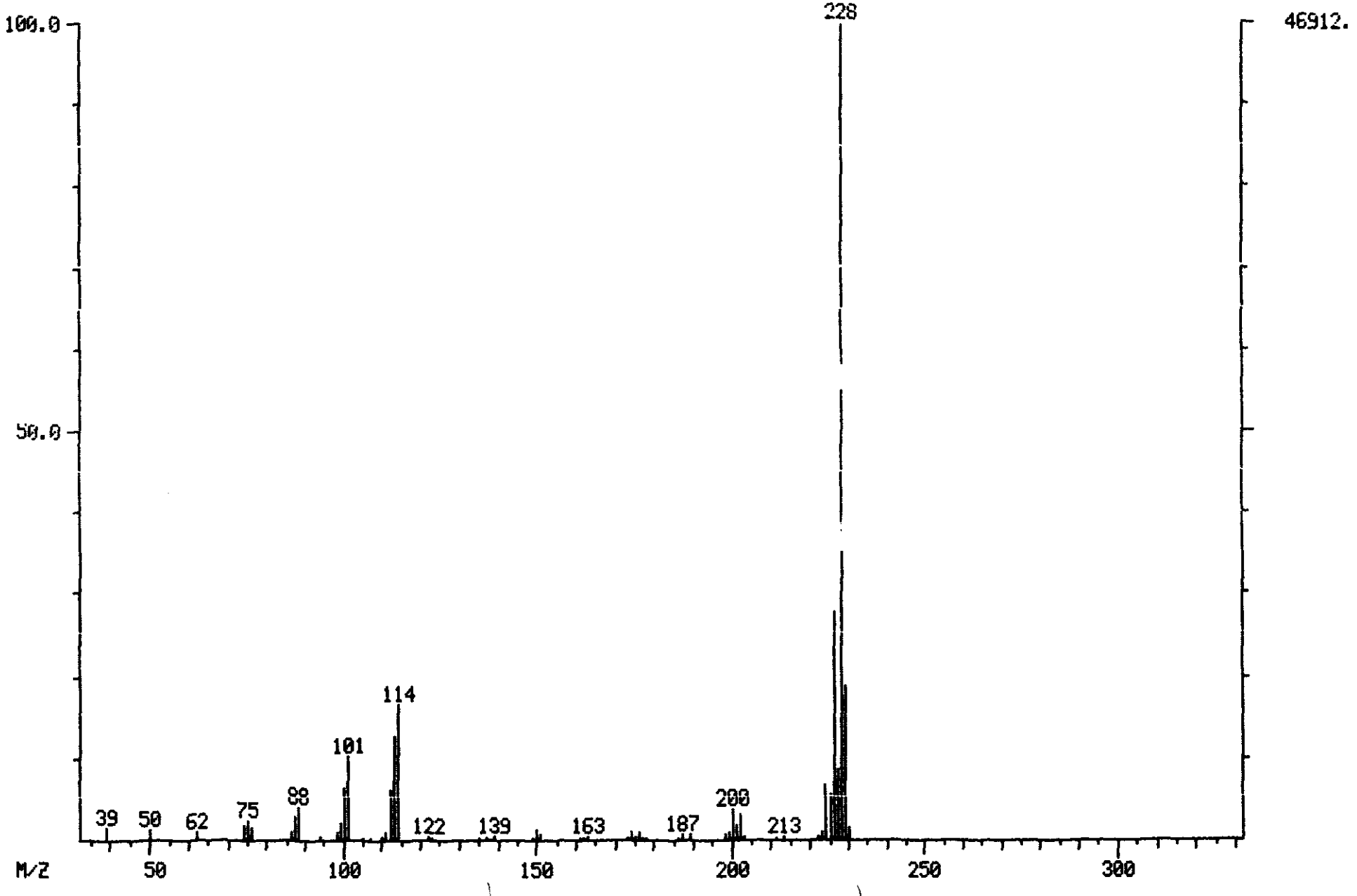
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 31:24
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C730 BENZO(A)ANTHRACENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1884
CALI: T2624 #2

BASE M/Z: 228
RIC: 126648.

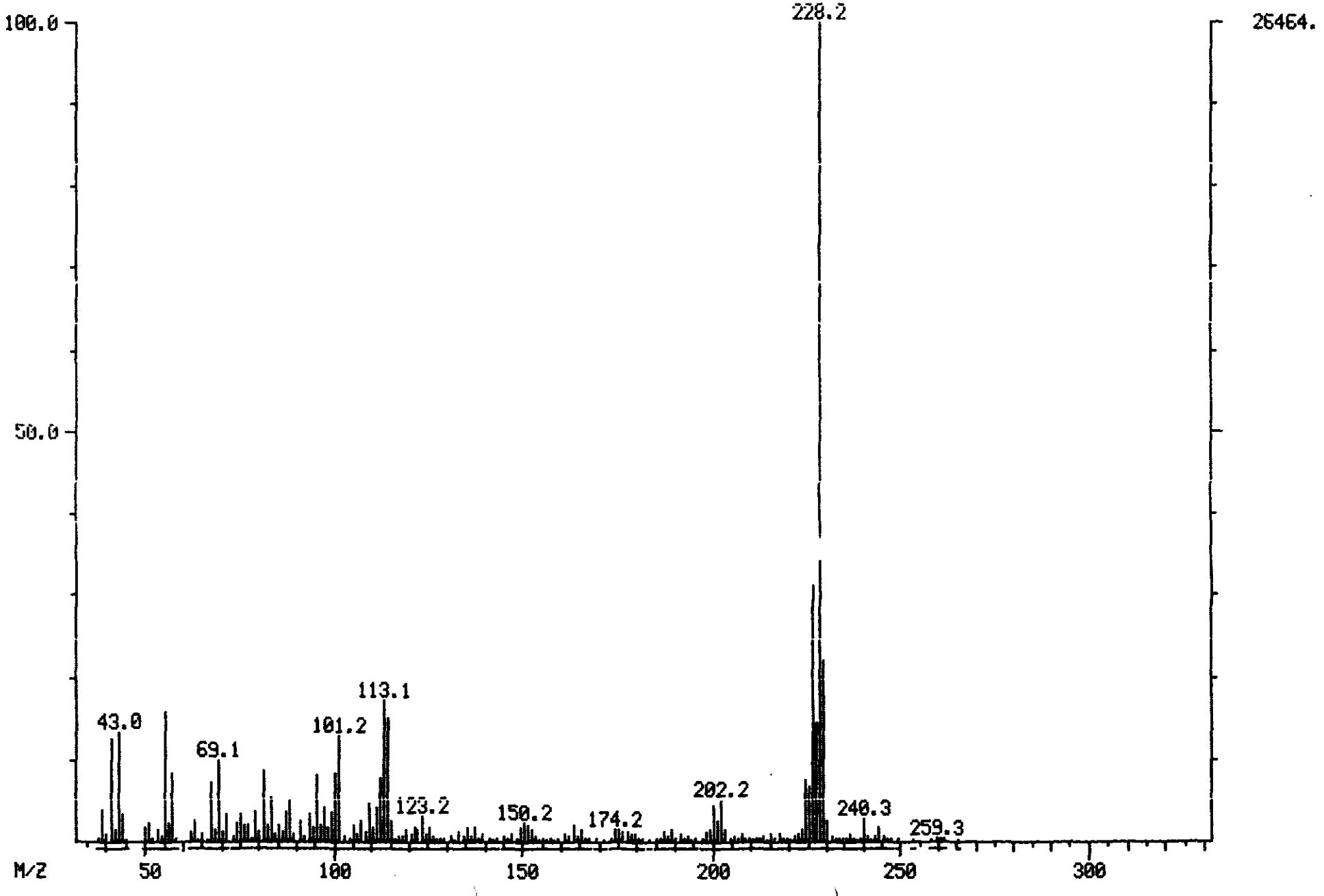
100309



MASS SPECTRUM
05/17/90 1:56:00 + 31:32
SAMPLE: CLP,VERSCDM,2536,7,L,5,16424,6,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C740 CHRYSENE

DATA: T2633 #1892
CALI: T2633 #2

BASE M/Z: 228
RIC: 147968.



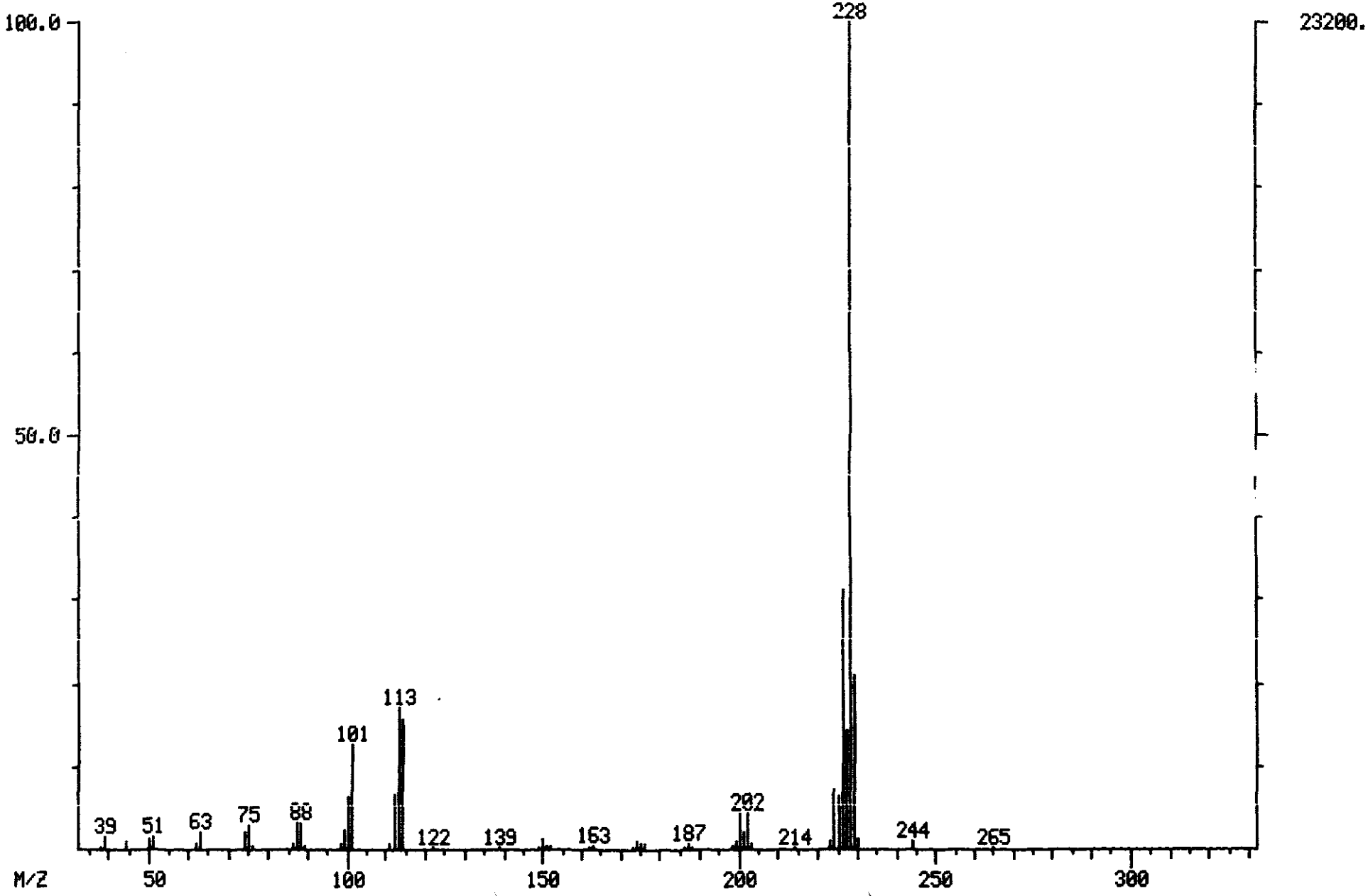
100310

ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 31:32
SAMPLE: CLP,VERSCOM,2526,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C740 CHRYSENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #1892
CALI: T2633 #2

BASE M/Z: 228
RIC: 67840.



100311

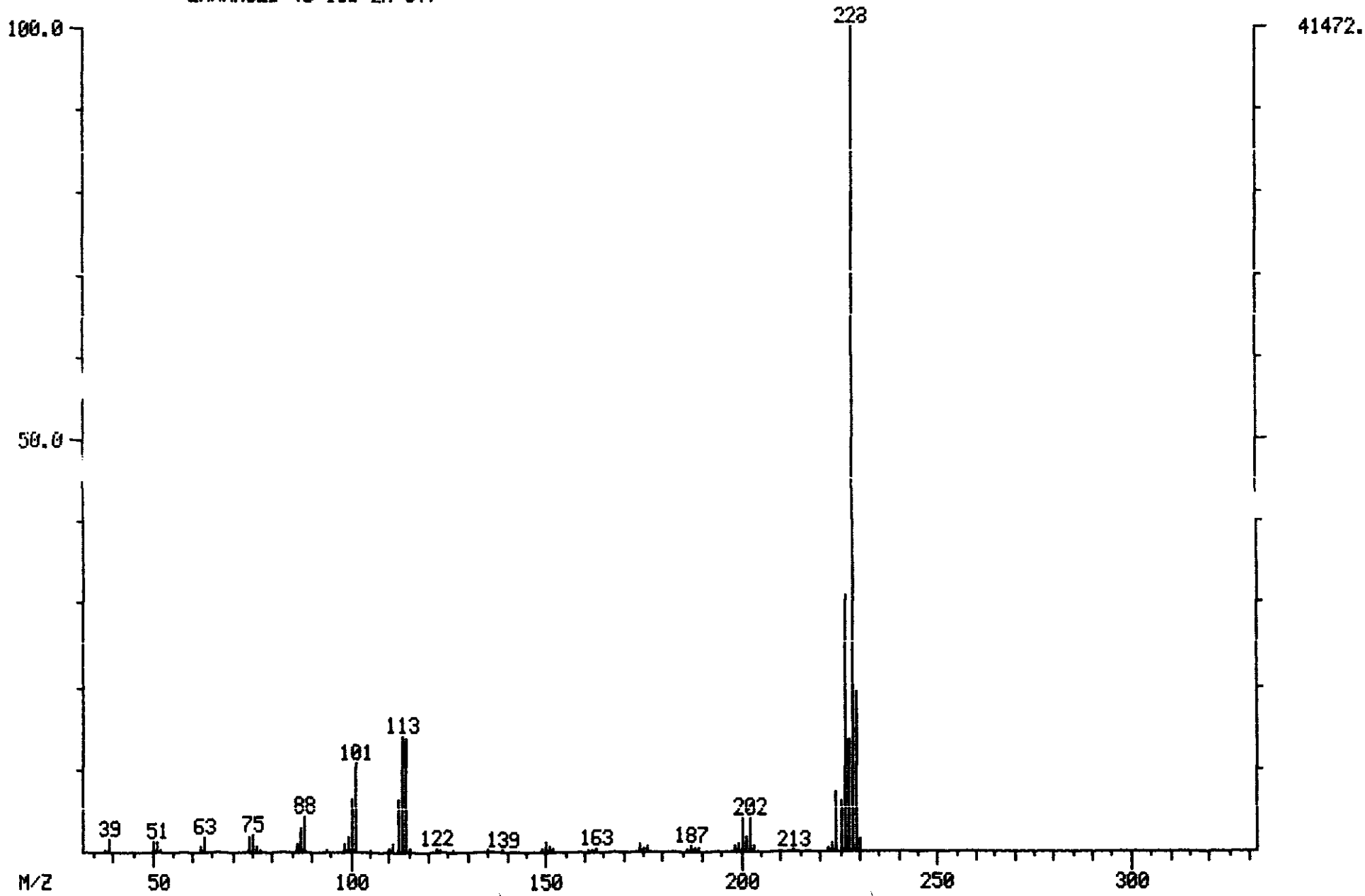
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 31:32
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=PESTEK 30M RTX-5 4MIN@38C TO 300@8C/MIN
** NAME: C740 CHRYSENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #1892
CALI: T2624 #2

BASE M/Z: 228
RIC: 117632.

100312

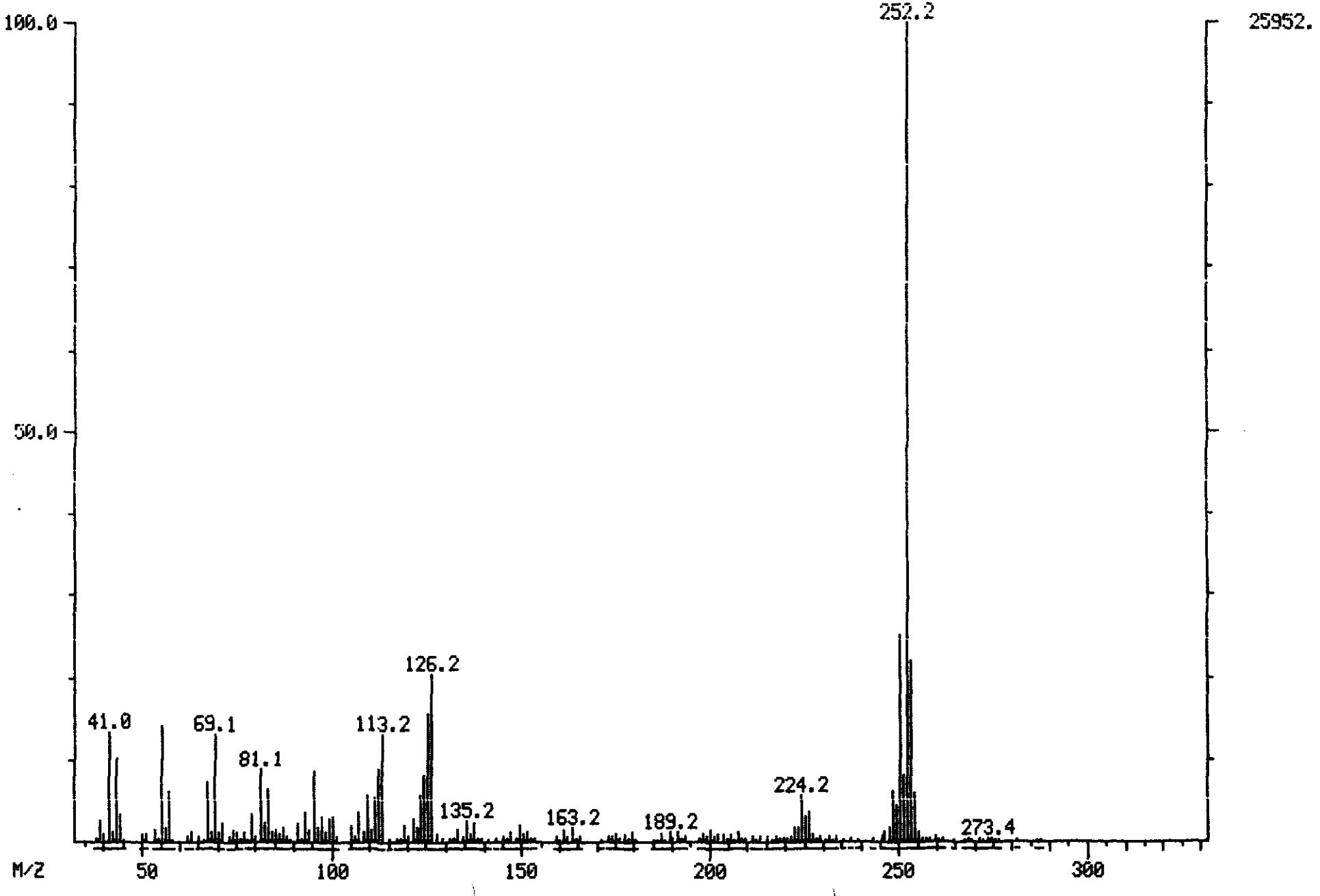


MASS SPECTRUM
05/17/90 1:56:00 + 34:52
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE

DATA: T2633 #2092
CALI: T2633 #2

BASE M/Z: 252
RIC: 135424.

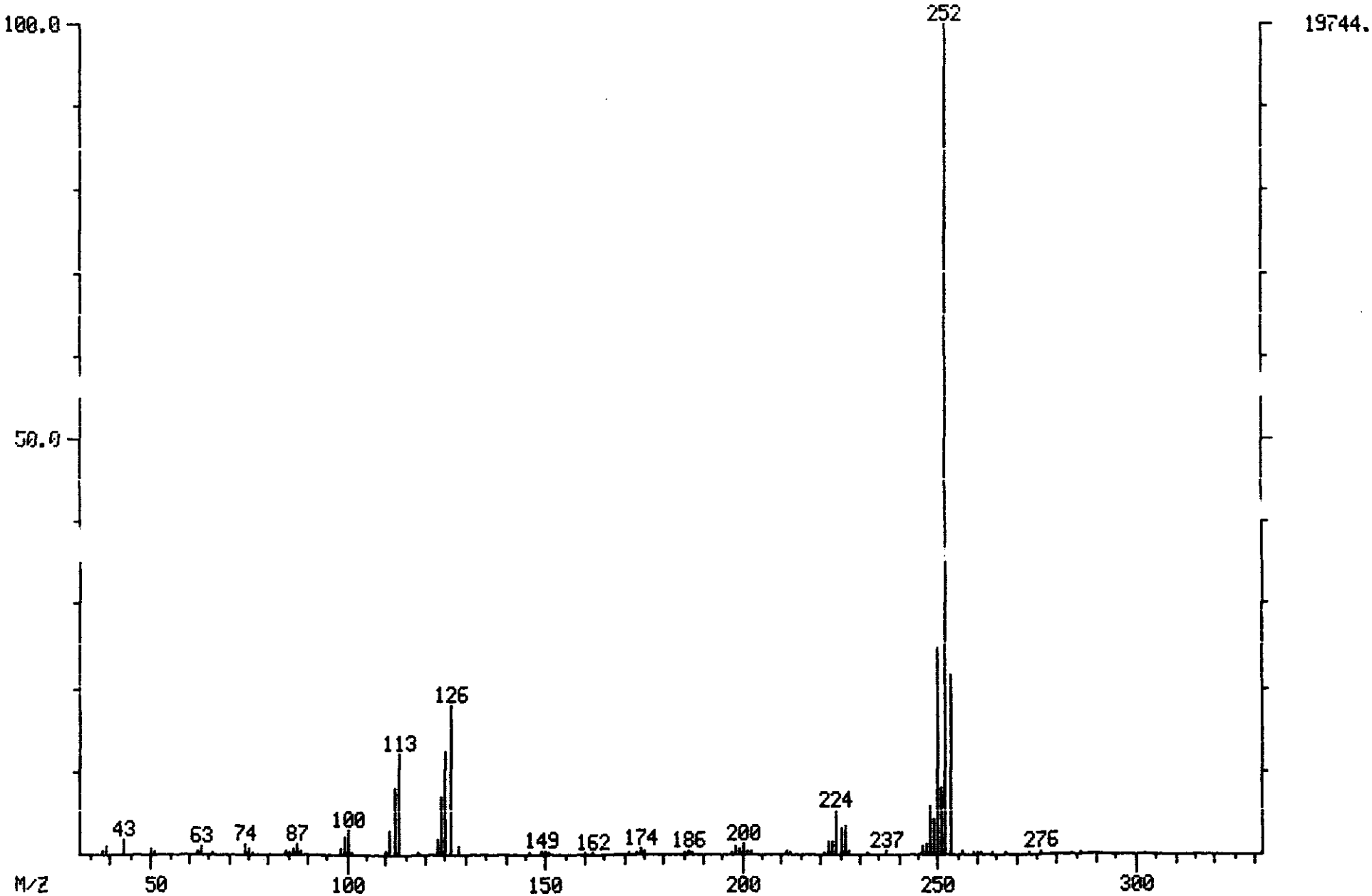
100313



MASS SPECTRUM
05/17/90 1:56:00 + 34:52
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #2092
CALI: T2633 #2

BASE M/Z: 252
RIC: 55936.



100314

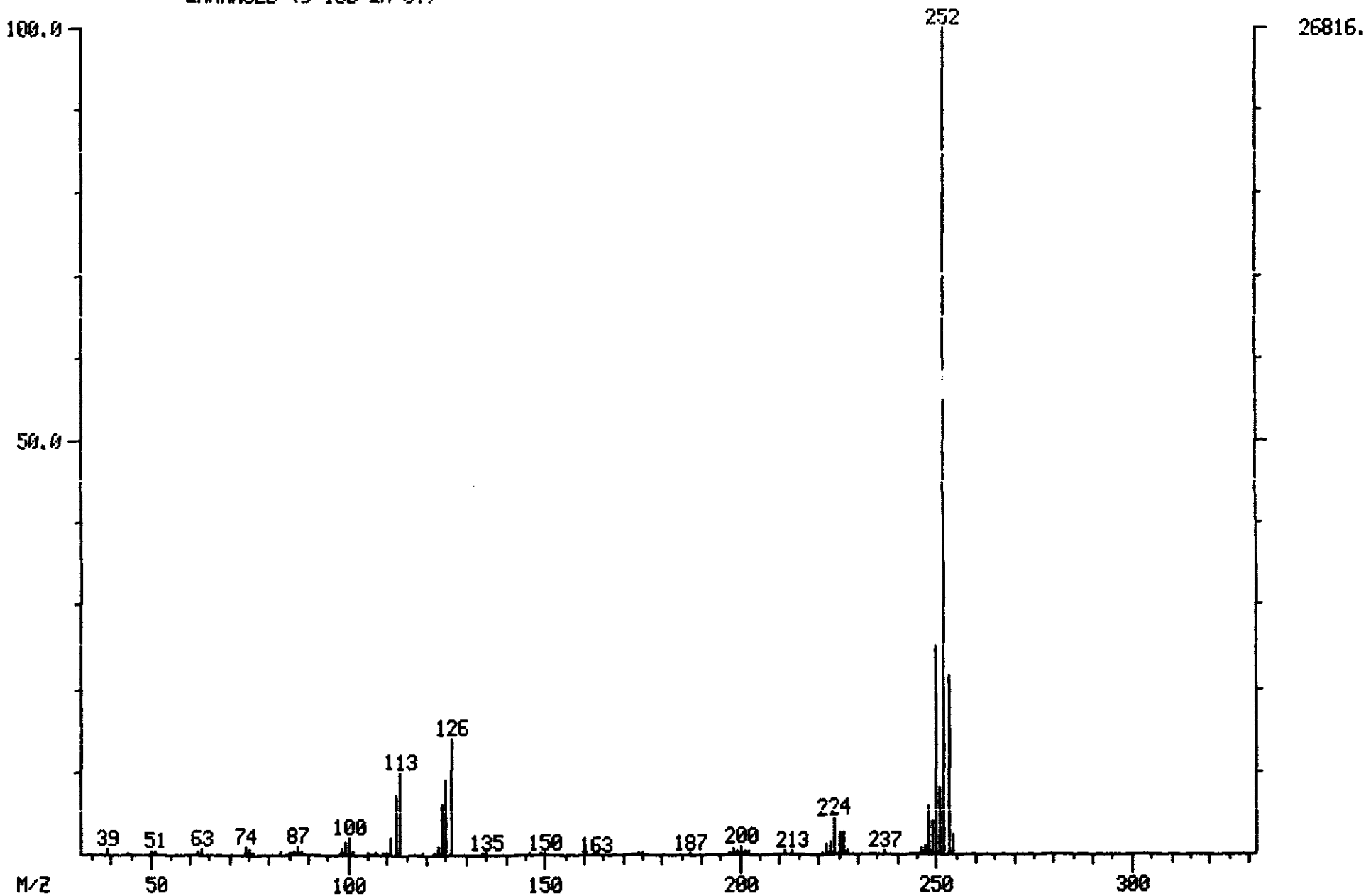
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 34:53
SAMPLE: CLP,,,SSTD50,,,22659,B,CC050,,,1UL,
CONDS.· INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C765 BENZO(B)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #2093
CALI: T2624 #2

BASE M/Z: 252
RIC: 68864.

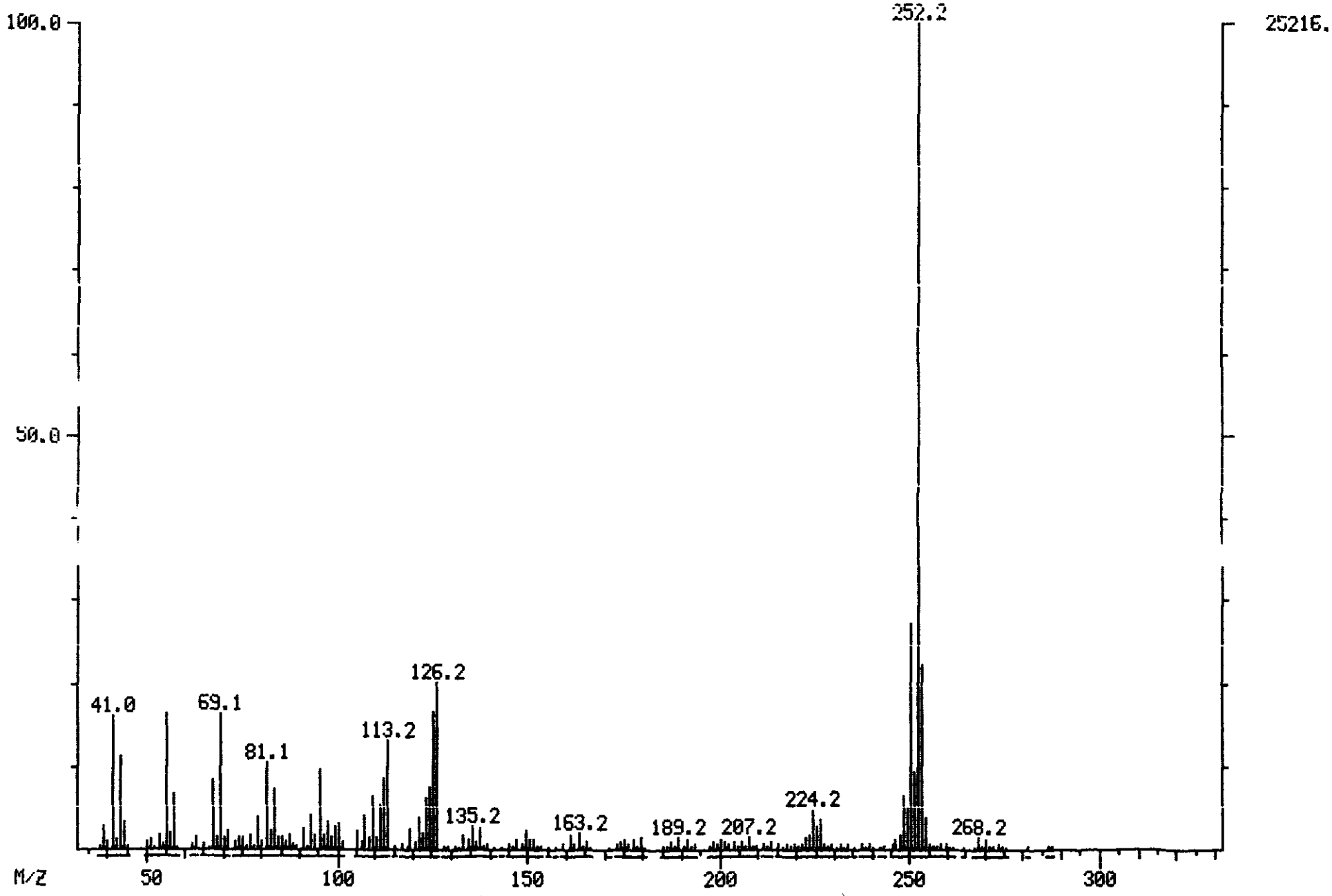
100315



MASS SPECTRUM
05/17/90 1:56:00 + 34:57
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE

DATA: T2633 #2097
CALI: T2633 #2

BASE M/Z: 252
RIC: 142592.

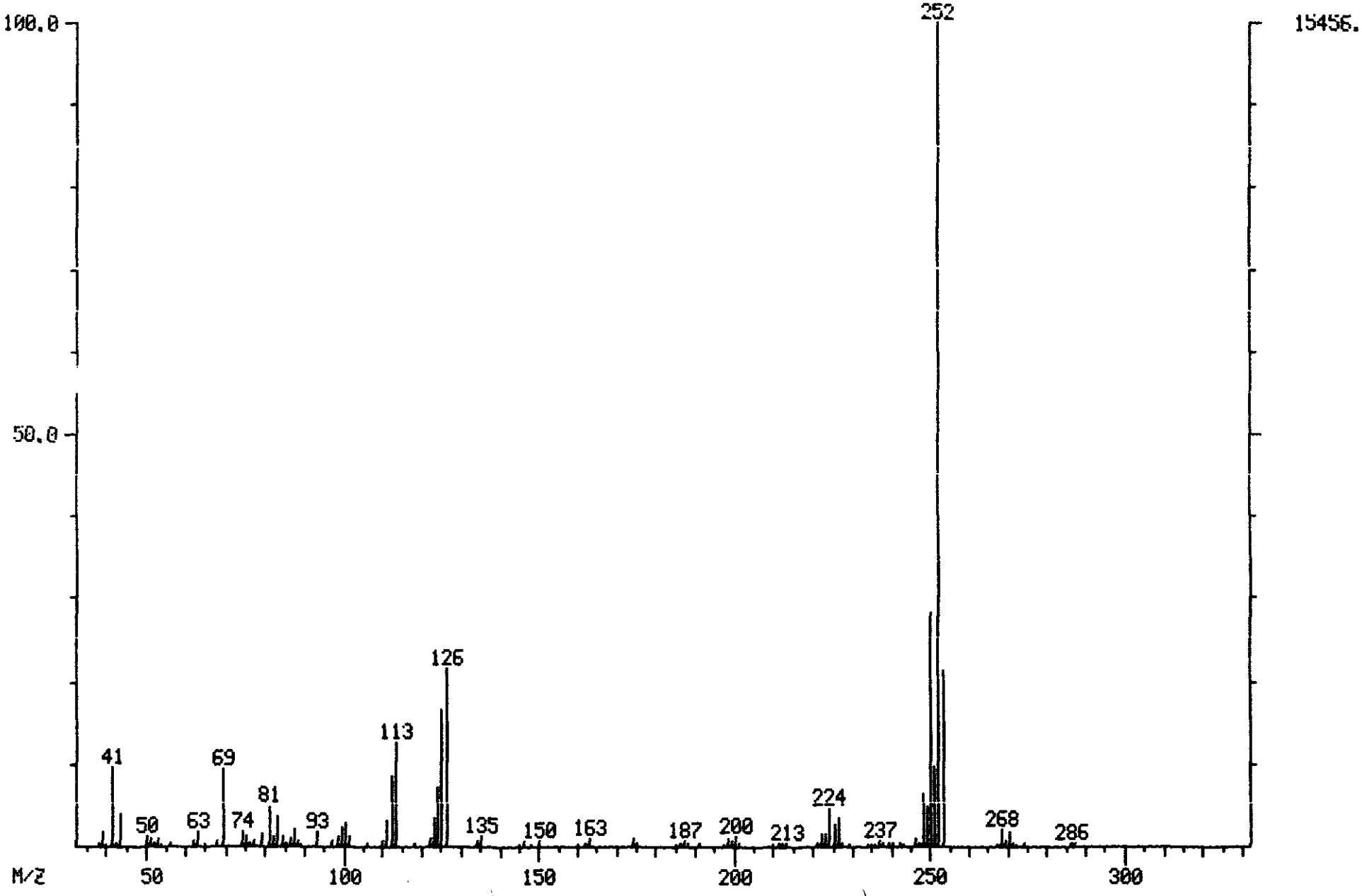


100316

MASS SPECTRUM
05/17/90 1:56:00 + 34:57
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #2097
CALI: T2633 #2

BASE M/Z: 252
RIC: 56446.



'00317

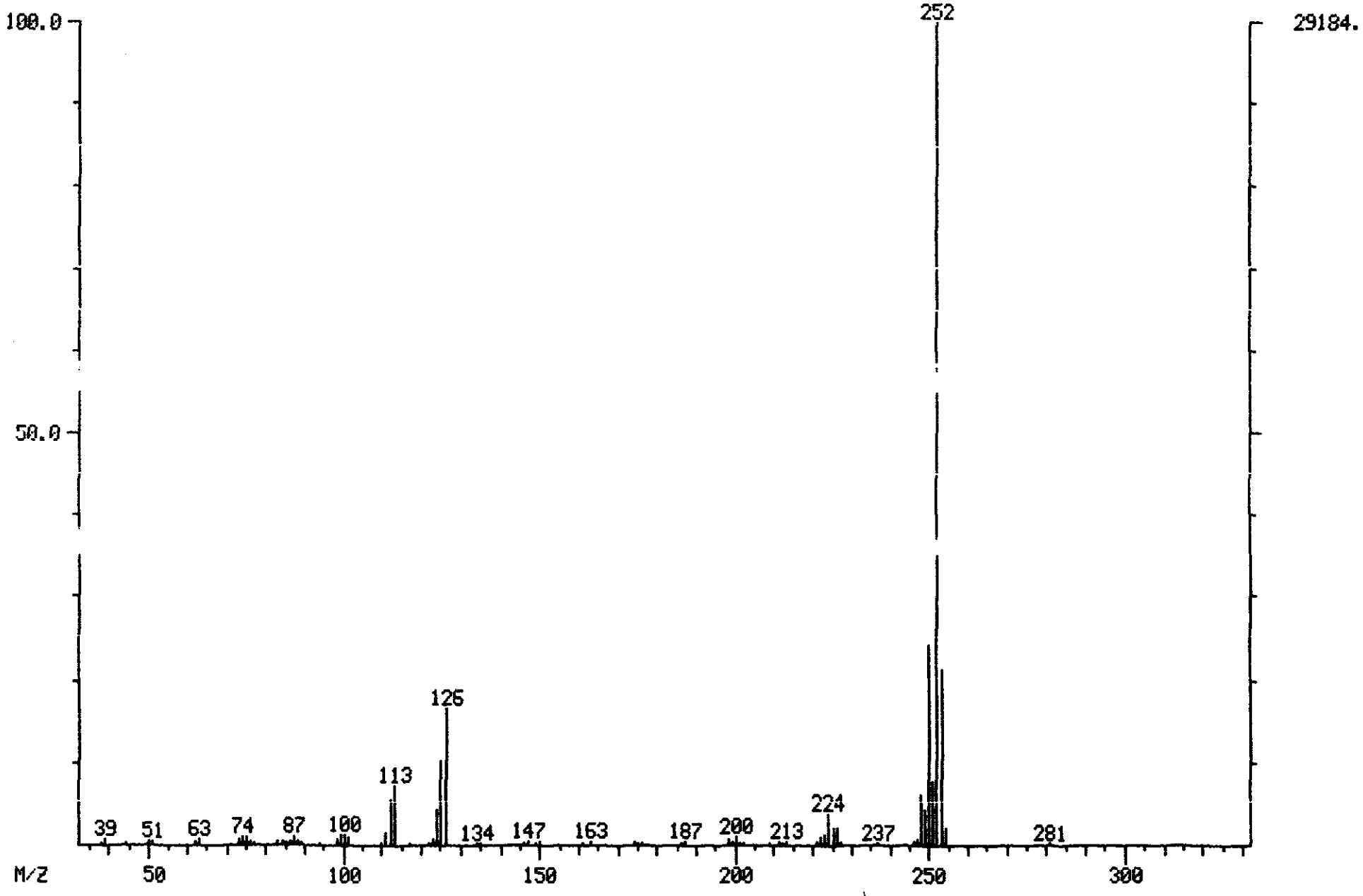
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 34:58
SAMPLE: CLP,,,SSTD50,,,22658,6,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
** NAME: C770 BENZO(K)FLUORANTHENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #2098
CALI: T2624 #2

BASE M/Z: 252
RIC: 73856.

100318



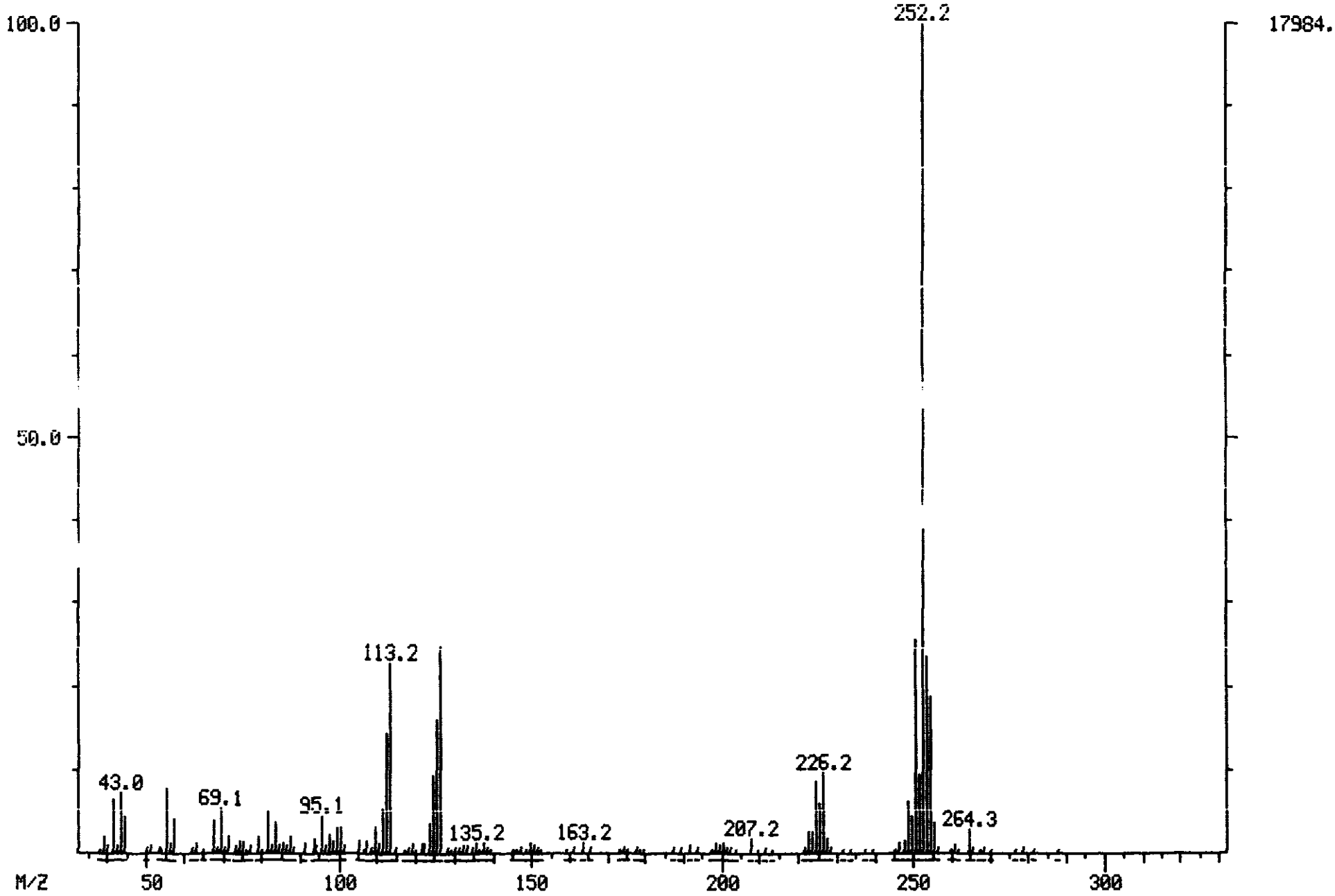
ORIGINAL (R.d)

MASS SPECTRUM
05/17/90 1:56:00 + 36:10
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C775 BENZO(A)PYRENE

DATA: T2633 #2170
CALI: T2633 #2

BASE M/Z: 252
RIC: 88704.

100319

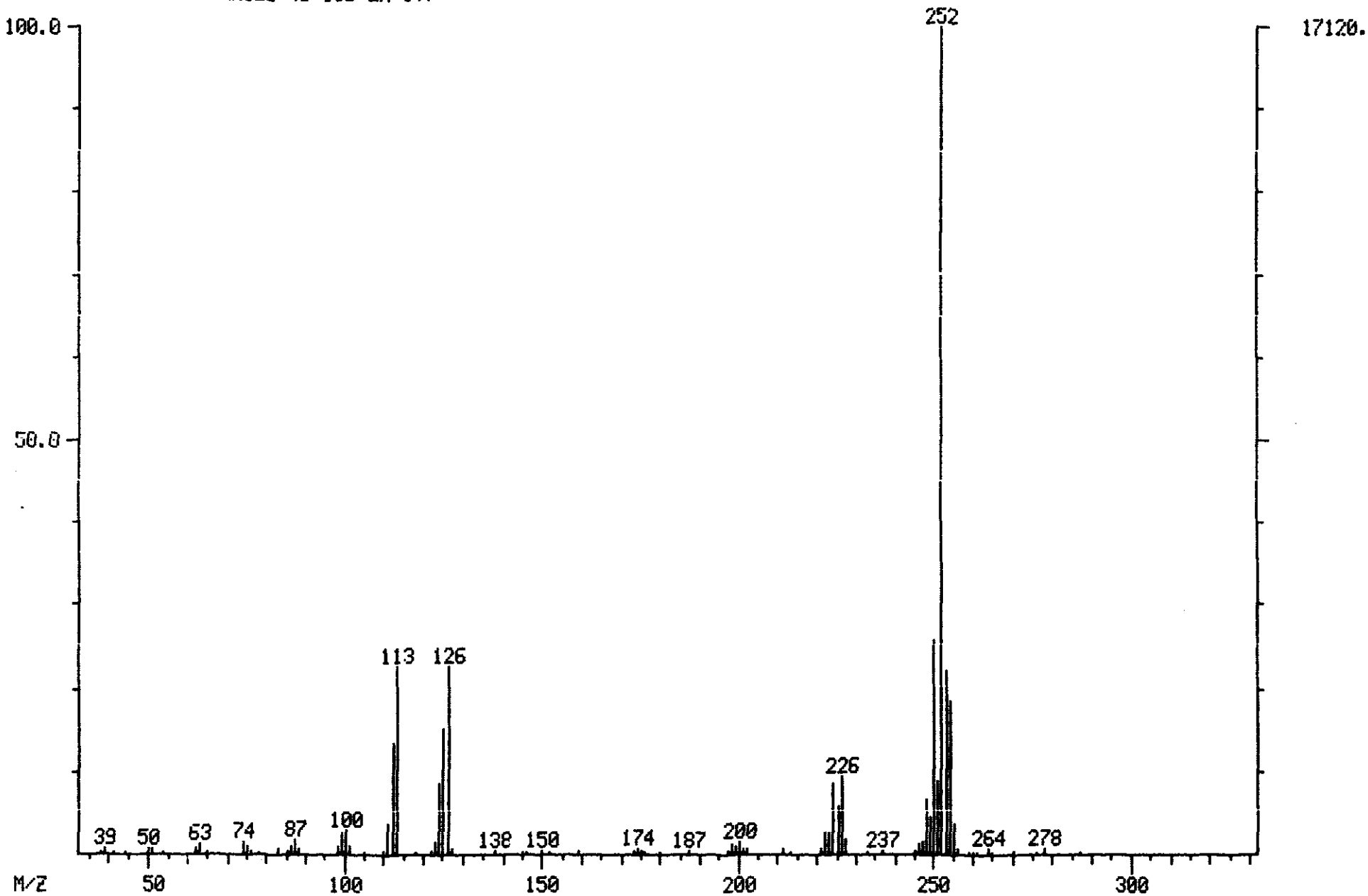


ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 36:10
SAMPLE: CLP,VERSCOM,2556,7,L,5,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 302080C/MIN
** NAME: C775 BENZO(A)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #2170
CALI: T2633 #2

BASE M/Z: 252
RIC: 61376.



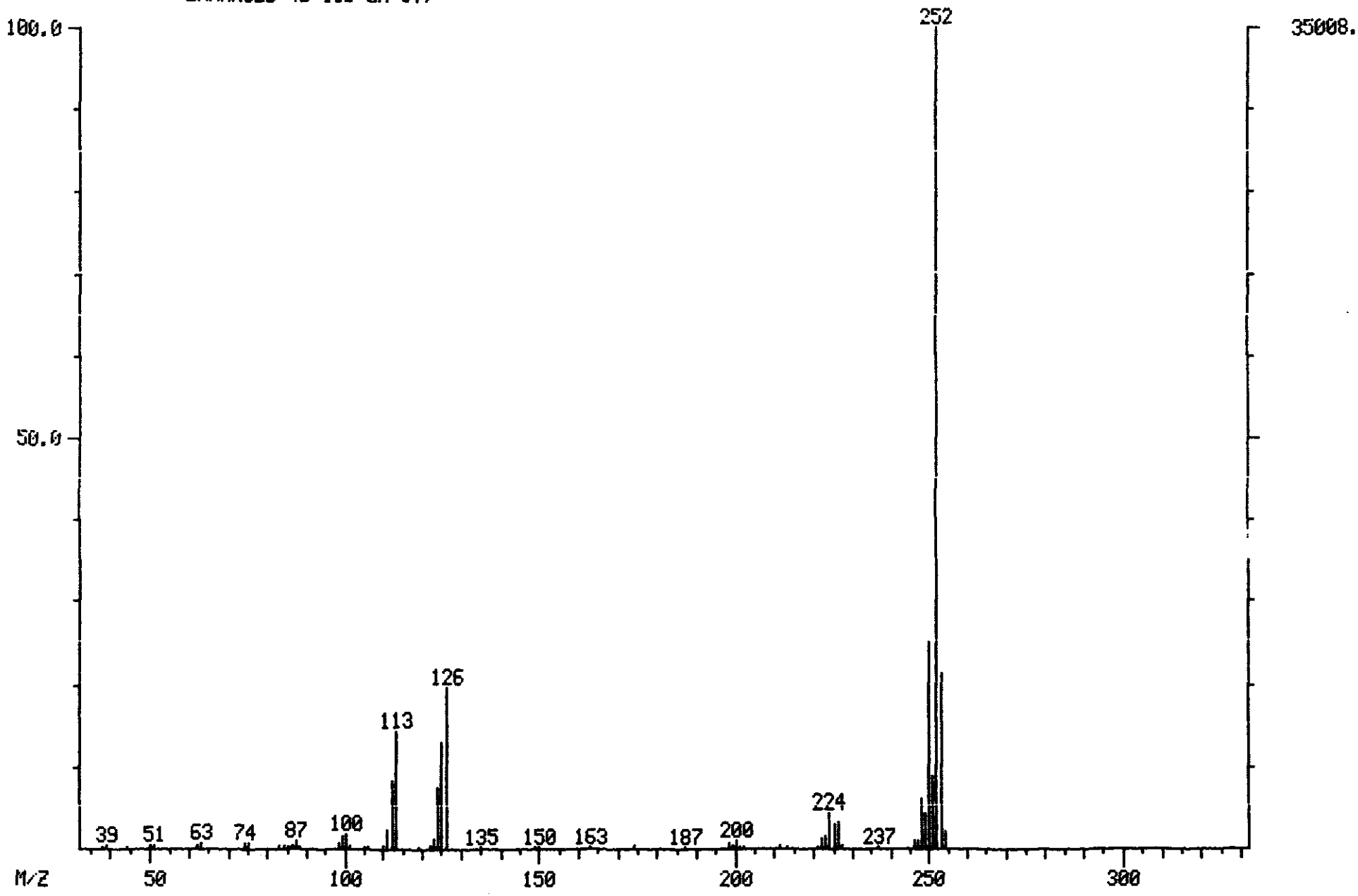
100320

ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 36;11
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C775 BENZO(A)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #2171
CALI: T2624 #2

BASE M/Z: 252
RIC: 95616.



100321

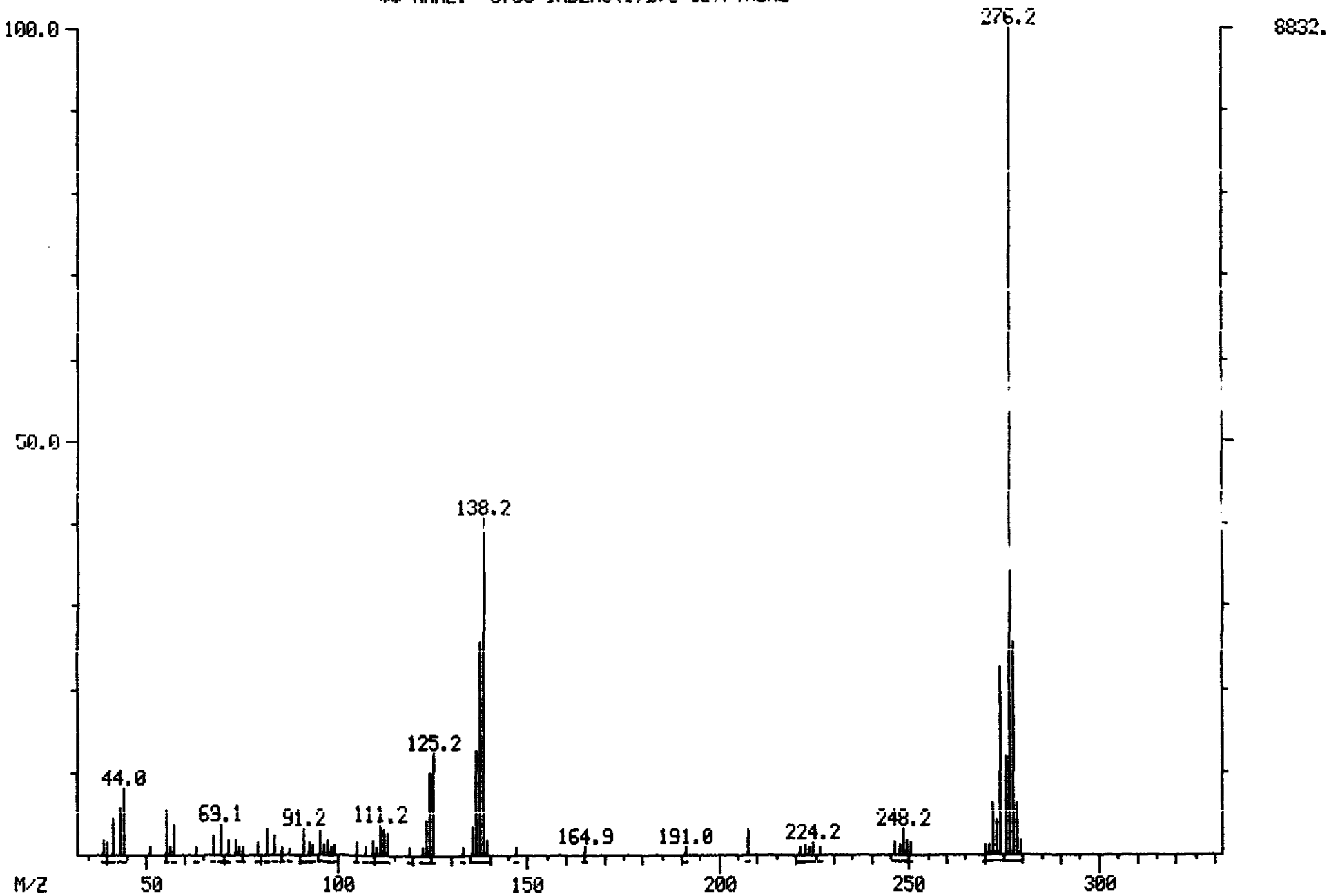
ORIGINAL (Red)

100322

MASS SPECTRUM
05/17/90 1:56:00 + 42:10
SAMPLE: CLP,VERSCOM,2536,7,L,5,16424,6,,420.1 D#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C780 INDENO(1,2,3-CD)PYRENE

DATA: T2633 #2530
CALI: T2633 #2

BASE M/Z: 276
RIC: 35648.



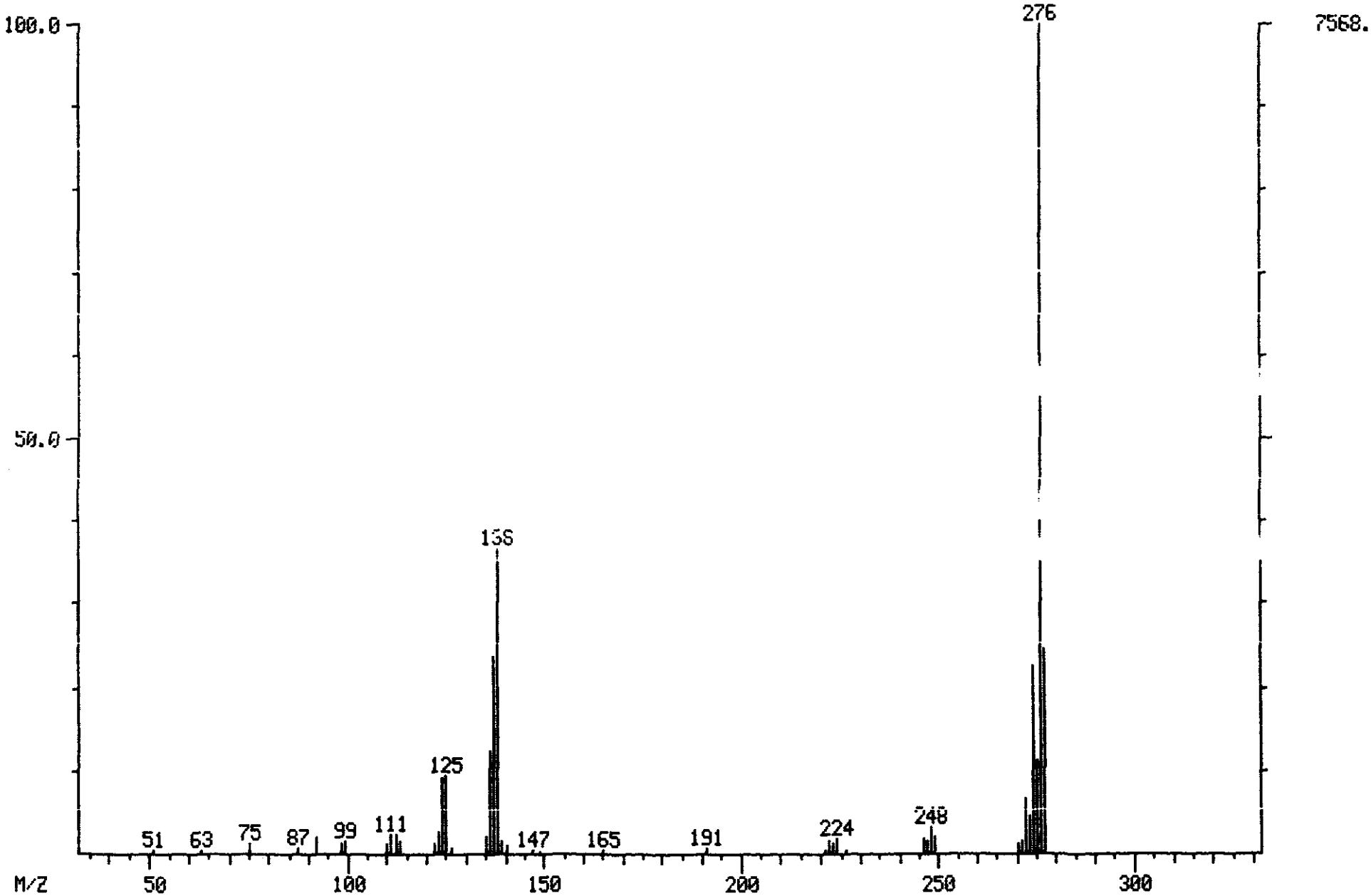
ORIGINAL (Red)

100323

MASS SPECTRUM
05/17/90 1:56:00 + 42:10
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
** NAME: C720 INDENO(1,2,3-CD)PYRENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #2530
CALI: T2633 #2

BASE M/Z: 276
RIC: 23360.



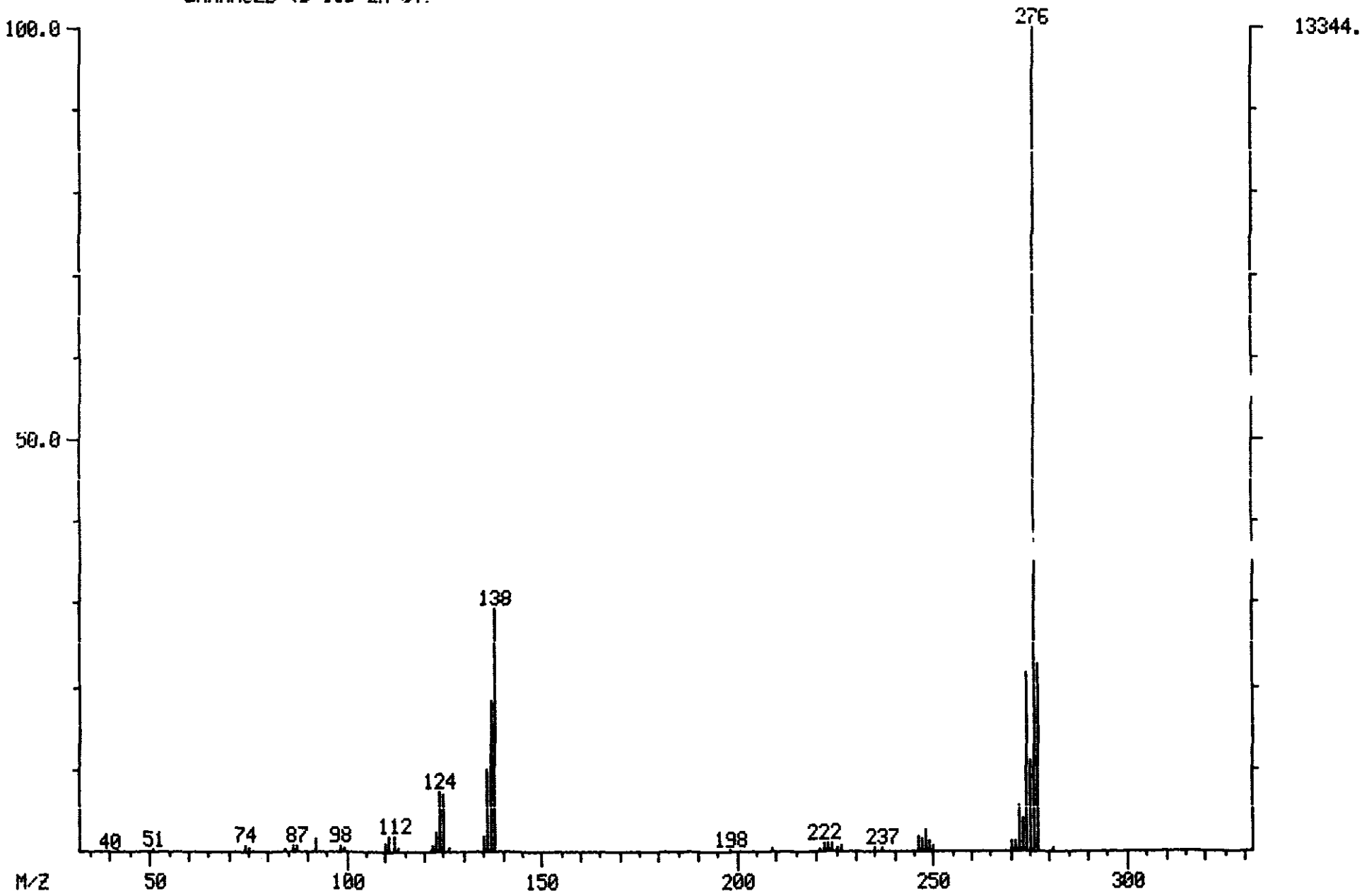
ORIGINAL (Red)

MASS SPECTRUM
05/16/90 17:01:00 + 42:13
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.* INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C780 INDENO(1,2,3-CD)PYRENE
ENHANCED (S 15@ 2N 0T)

DATA: T2624 #2533
CALI: T2624 #2

BASE M/Z: 276
RIC: 36672.

100324



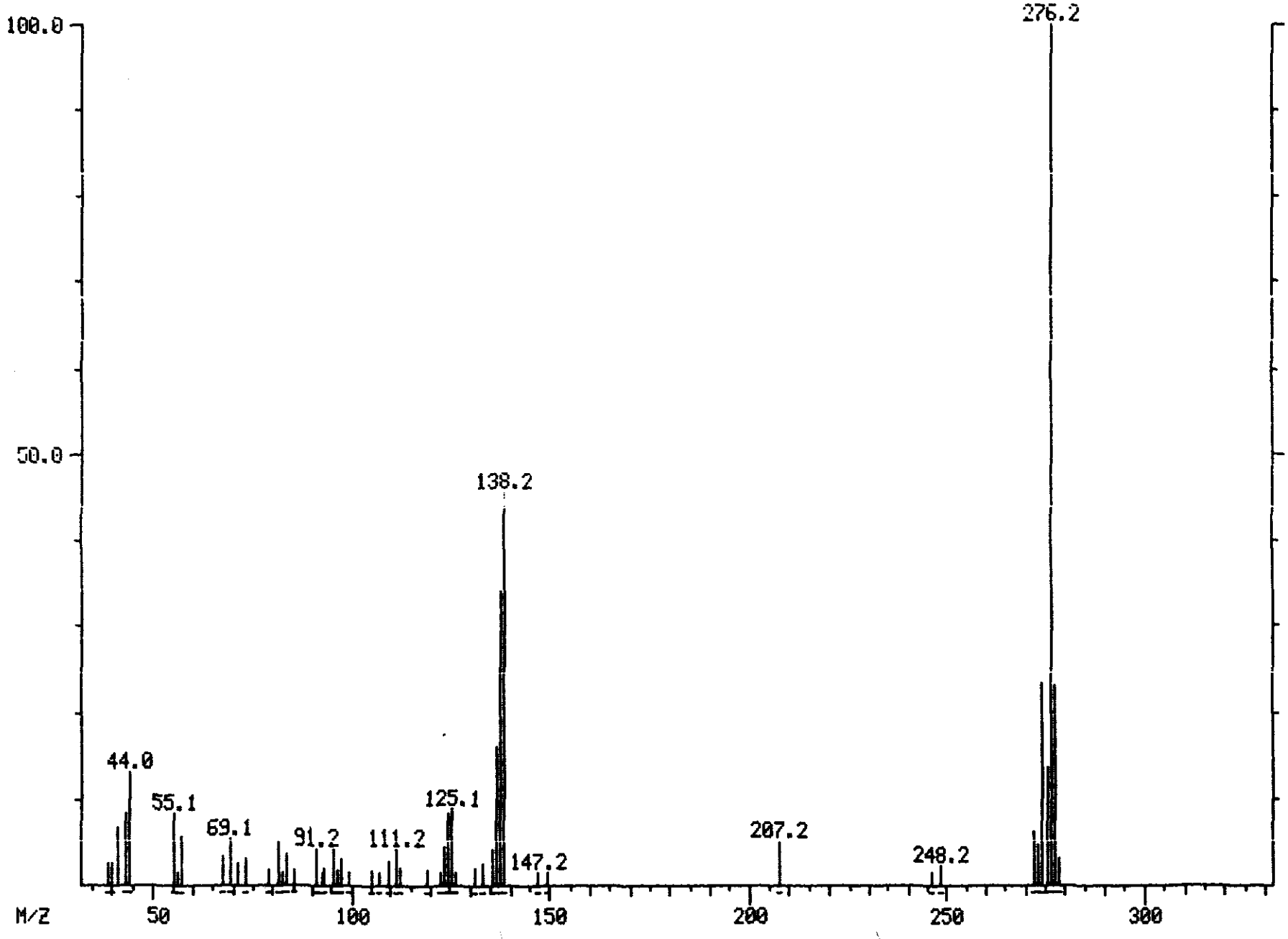
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 43:55
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C790 BENZO(G,H,I)PERYLENE

DATA: T2633 #2635
CALI: T2633 #2

BASE M/Z: 276
RIC: 23040.

100325



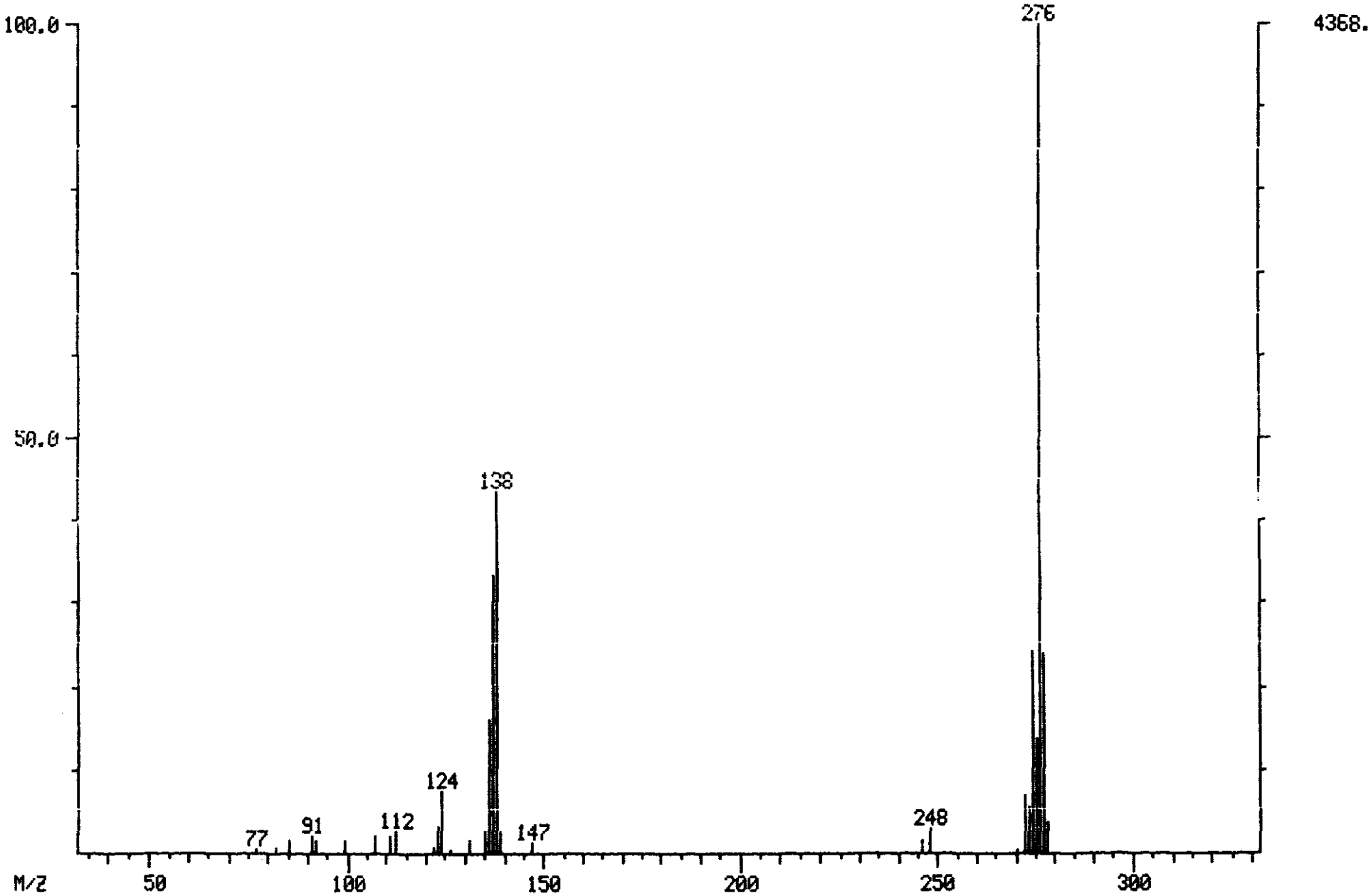
ORIGINAL (Red)

MASS SPECTRUM
05/17/90 1:56:00 + 43:55
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C790 BENZO(G,H,I)PERYLENE
ENHANCED (S 15B 2N 0T)

DATA: T2633 #2635
CALI: T2633 #2

BASE M/Z: 276
RIC: 13664.

100326

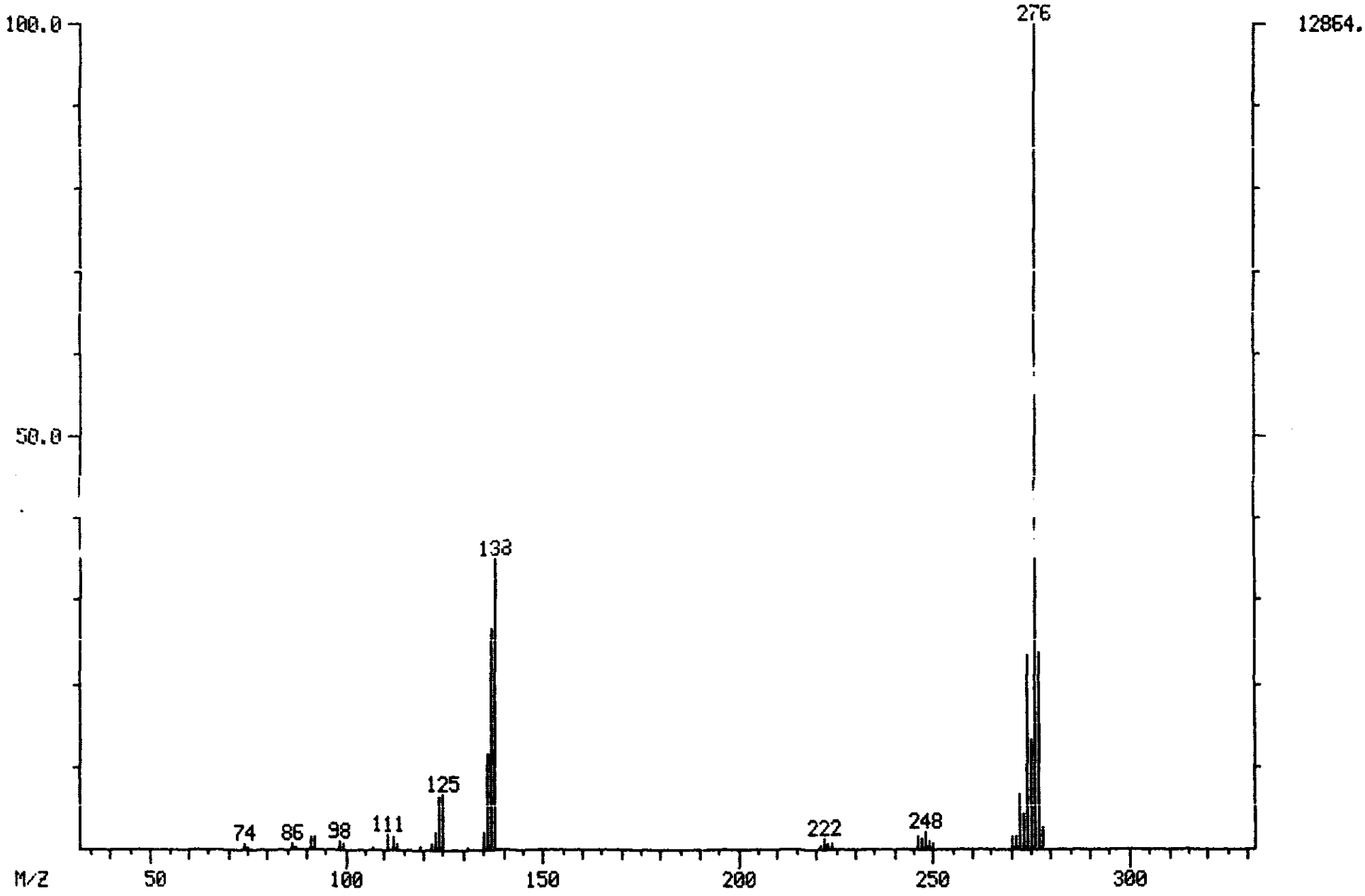


MASS SPECTRUM
05/16/90 17:01:00 + 44:00
SAMPLE: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
** NAME: C790 BENZO(G,H,I)PERYLENE
ENHANCED (S 15B 2N 0T)

DATA: T2624 #2640
CALI: T2624 #2

BASE M/Z: 276
RIC: 37696.

100327



Library Search Data: T2633 # 315 Base m/z: 43
05/17/90 1:56:00 + 5:15 Cali: T2633 # 2 RIC: 185855.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNH searched for maximum PURITY
97 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	806	HYDROPEROXIDE, 1,1-DIMETHYLETHYL
2	2776	2-PENTANOL, 2,4-DIMETHYL-
3	1334	OXIRANE, TETRAMETHYL-
4	2696	1,3-DIOXOLANE, 2,2,4-TRIMETHYL-
5	9176	2-HEXANONE, 6-(ACETYLOXY)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H10.O2	90	59	754	878	761
2	C7.H16.O	116	59	729	768	716
3	C6.H12.O	100	59	696	827	702
4	C6.H12.O2	116	43	676	732	842
5	C8.H14.O3	158	43	668	704	711

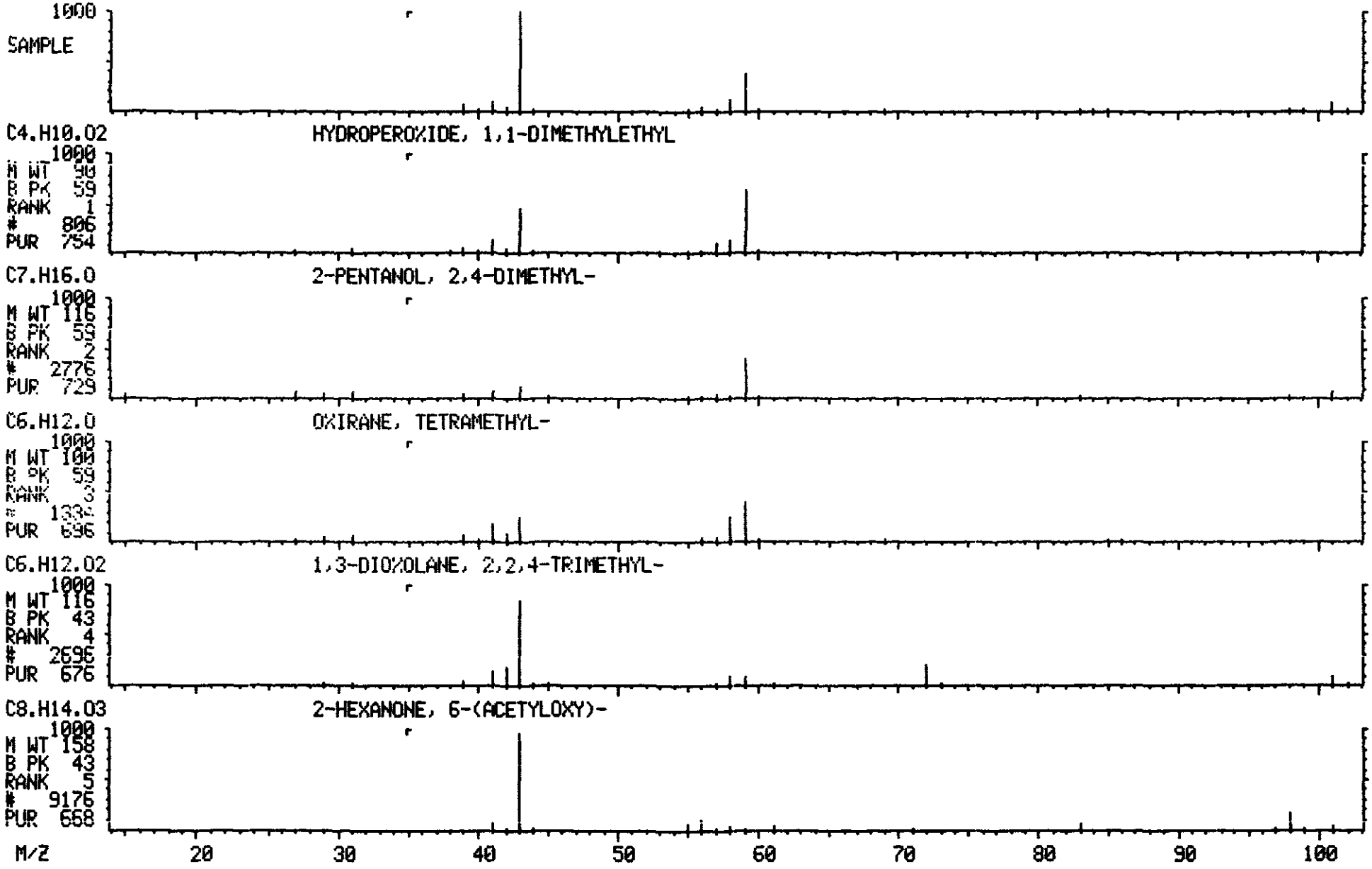
Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	75-91-2
2	—	—	—	—	625-06-9
3	—	—	—	—	5076-20-0
4	—	—	—	—	1193-11-9
5	—	—	—	—	4305-26-4

LIBRARY SEARCH
05/17/90 1:56:00 + 5:15
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
ENHANCED (S 15P 2N 0T)

DATA: T2633 # 315
CALI: T2633 # 2

BASE M/Z: 43
RIC: 185355.

100329



Library Search Data: T2633 # 337 Base m/z: 41
05/17/90 1:56:00 + 5:37 Cali: T2633 # 2 RIC: 24063.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
149 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1076	1-PROPENE, 3,3'-OXYBIS-
2	1111	2-HEXENAL, (E)-
3	2216	2-HEPTENAL, (Z)-
4	2184	4-PENTENAL, 2-ETHYL-
5	4411	1-HEPTANOL, 6-METHYL-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6.H10.O	98	41	768	886	782
2	C6.H10.O	98	41	756	906	756
3	C7.H12.O	112	41	742	903	765
4	C7.H12.O	112	41	726	870	726
5	C8.H18.O	130	41	699	840	699

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	557-40-4
2	—	—	—	—	6728-26-3
3	—	—	—	—	57266-86-1
4	—	—	—	—	5204-80-8
5	—	—	—	—	1653-40-3

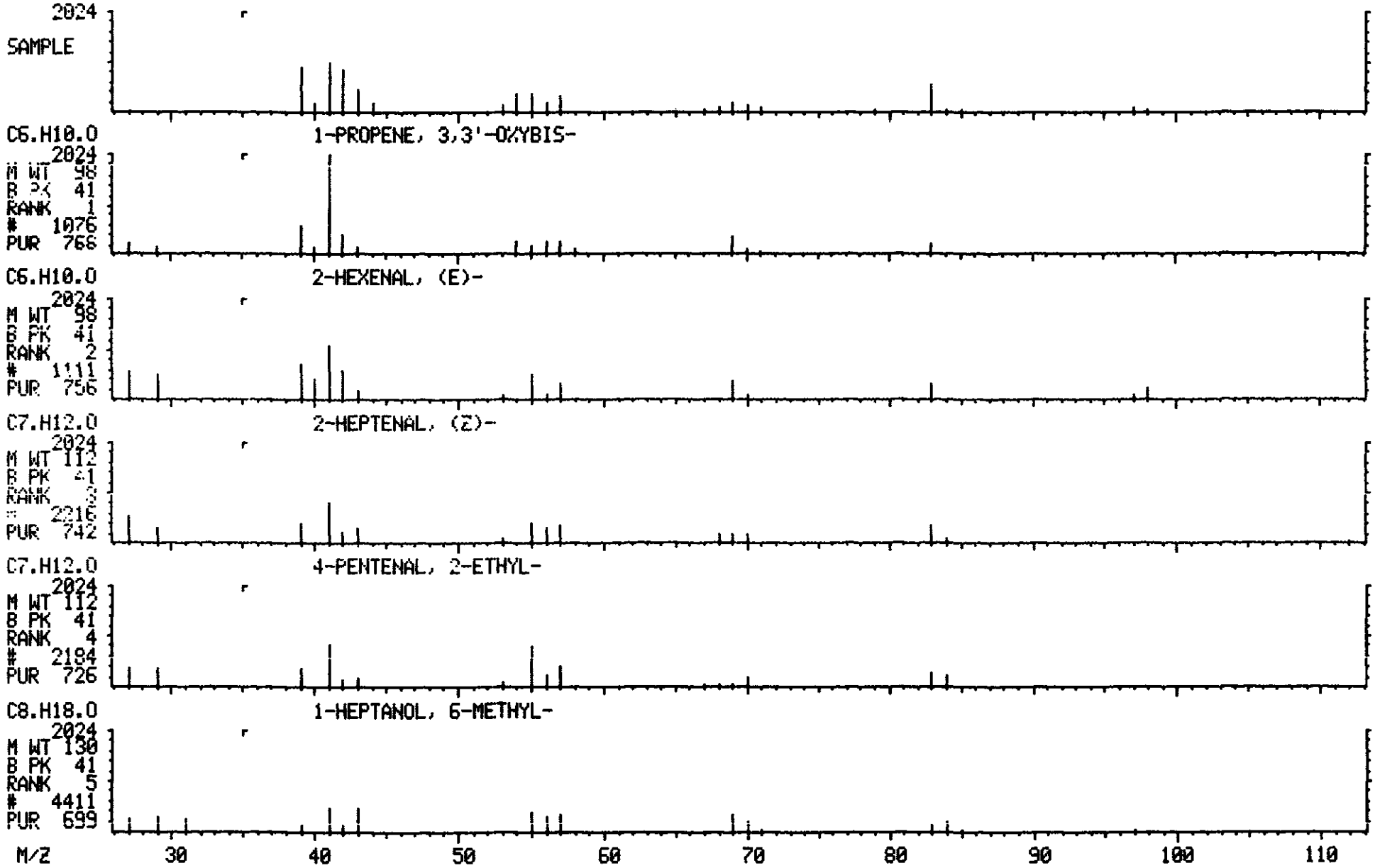
ORIGINAL (Red)

100331

LIBRARY SEARCH
05/17/90 1:56:00 + 5:57
SAMPLE: CLP,VERSCOM,2526,7,L,5,16424,6,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2633 # 337
CALI: T2633 # 2

BASE M/Z: 41
RIC: 24063.



Library Search Data: T2633 # 373 Base m/z: 39
05/17/90 1:56:00 + 6:13 Cali: T2633 # 2 RIC: 10271.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
261 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1075	2-HEXENAL
2	1085	2-CYCLOHEXEN-1-OL
3	1109	3-PENTENAL, 4-METHYL-
4	1111	2-HEXENAL, (E)-
5	1128	FURAN, 2,5-DIHYDRO-3,4-DIMETHYL-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6.H10.O	98	41	754	885	771
2	C6.H10.O	98	70	754	900	778
3	C6.H10.O	98	41	732	825	759
4	C6.H10.O	98	41	710	843	767
5	C6.H10.O	98	41	702	840	717

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	505-57-7
2	—	—	—	—	822-67-3
3	—	—	—	—	5362-50-5
4	—	—	—	—	6728-26-3
5	—	—	—	—	53720-72-2

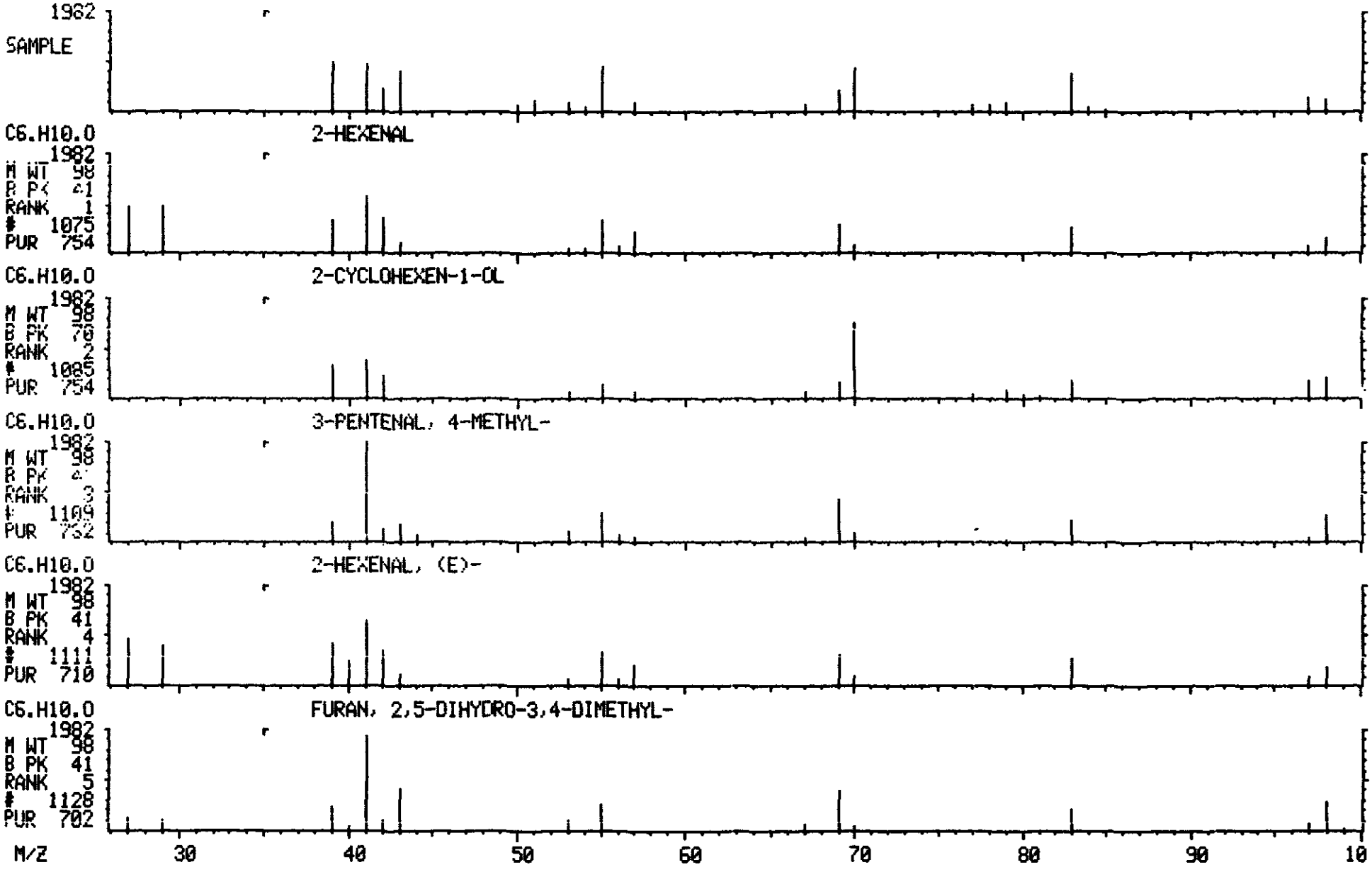
ORIGINAL (Red)

LIBRARY SEARCH
05/17/90 1:56:00 + 6:13
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.· INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2633 # 373
CALI: T2633 # 2

BASE M/Z: 39
RIC: 10271.

100333



Library Search Data: T2633 # 428 Base m/z: 43
05/17/90 1:56:00 + 7:08 Cali: T2633 # 2 RIC: 20639.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
253 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	10299	HEXANE, 2-BROMO-
2	2427	ETHANONE, 1-(3-ETHYLOXIRANYL)-
3	10300	HEXANE, 3-BROMO-
4	4088	2-HEXANONE, 3,3-DIMETHYL-
5	10303	PENTANE, 3-BROMO-3-METHYL-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6.H13.BR	164	43	849	903	836
2	C6.H10.O2	114	43	842	902	838
3	C6.H13.BR	164	43	833	885	870
4	C8.H16.O	128	43	803	852	810
5	C6.H13.BR	164	43	793	878	831

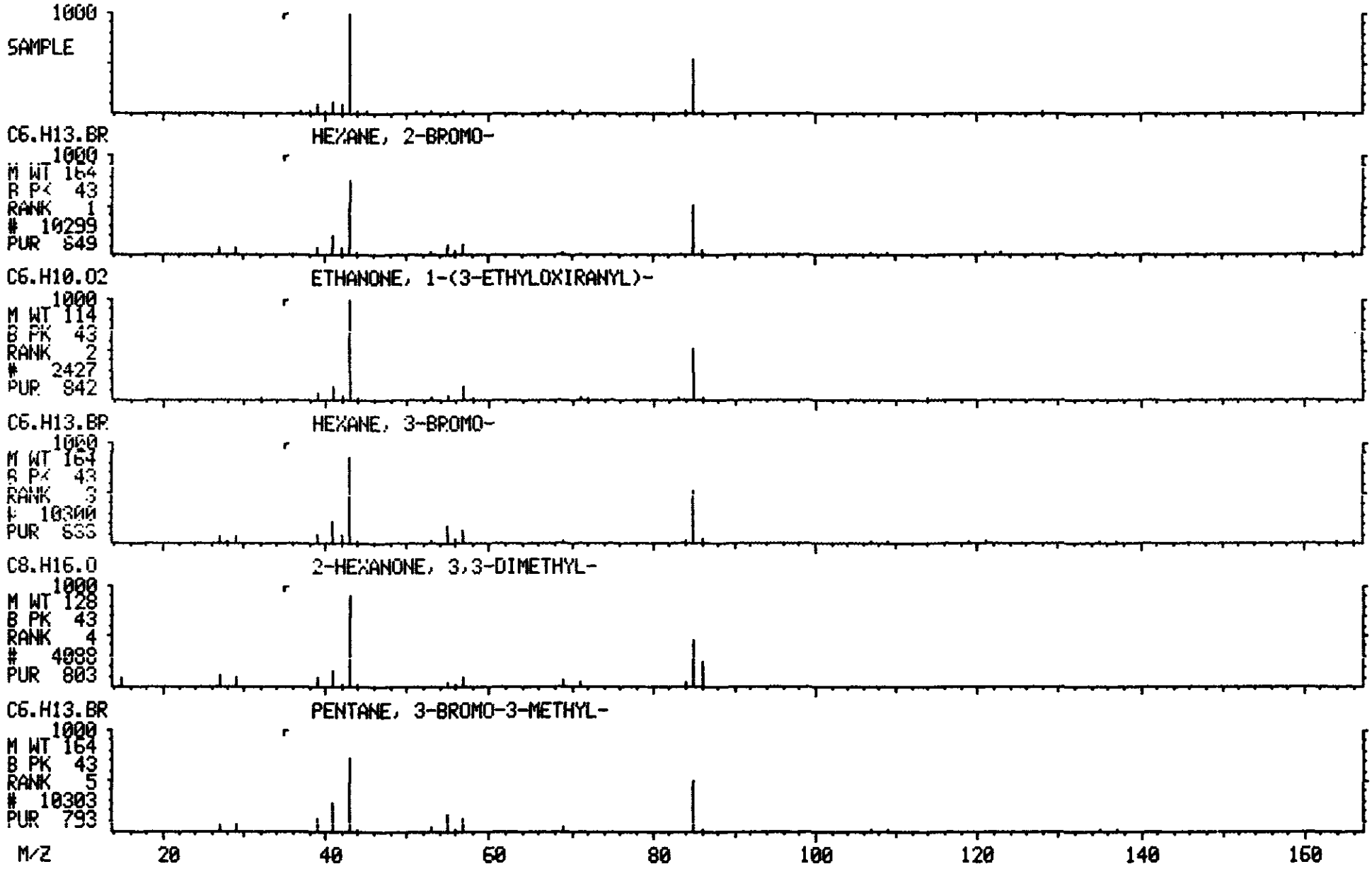
Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	33/7-86-4
2	—	—	—	—	17257-81-7
3	—	—	—	—	3377-87-5
4	—	—	—	—	26118-38-7
5	—	—	—	—	25346-31-0

LIBRARY SEARCH
05/17/90 1:56:00 + 7:08
SAMPLE: CLP,VERSCOM,2526,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2633 # 428
CALI: T2633 # 2

BASE M/Z: 43
RIC: 20639.

100335



Library Search Data: T2633 # 453 Base m/z: 43
05/17/90 1:56:00 + 7:33 Cali: T2633 # 2 RIC: 25791.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
274 matched at least 6 of the 16 largest peaks in the unknown

Ketone

Rank	In.	Name
1	2147	2(5H)-FURANONE, 5,5-DIMETHYL-
2	2176	5-HEXEN-2-ONE, 5-METHYL-
3	2183	3-HEXEN-2-ONE, 5-METHYL-
4	2165	3-PENTEN-2-ONE, 3,4-DIMETHYL-
5	2071	2-PROPANONE, 1,1,1-TRIFLUORO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H8.O2	112	43	843	889	918
2	C7.H12.O	112	43	828	890	863
3	C7.H12.O	112	43	747	798	781
4	C7.H12.O	112	43	735	803	765
5	C3.H3.O.F3	112	43	675	804	710

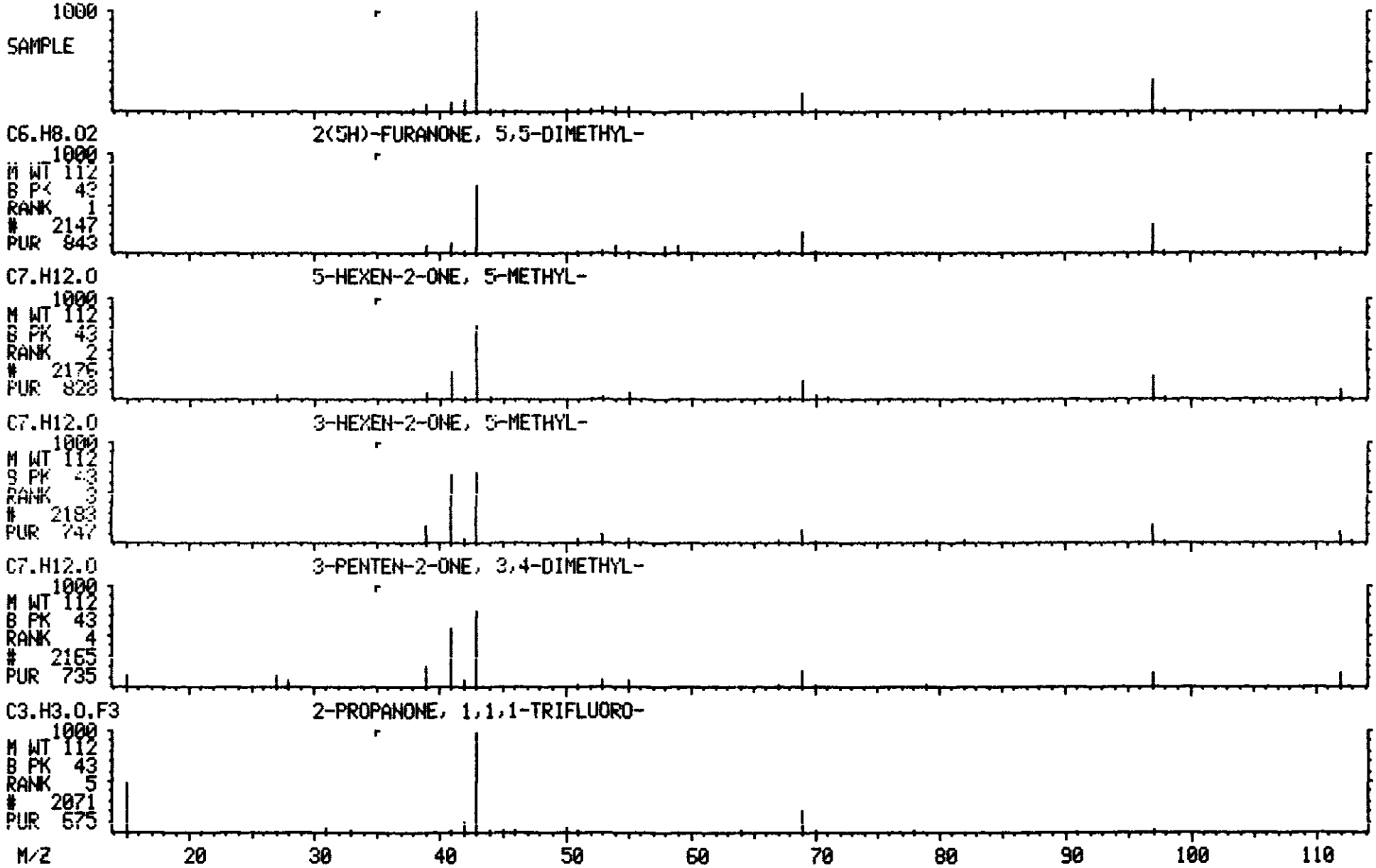
Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	20019-64-1
2	—	—	—	—	3240-09-3
3	—	—	—	—	5166-53-0
4	—	—	—	—	684-94-6
5	—	—	—	—	421-50-1

LIBRARY SEARCH
05/17/90 1:56:00 + 7:33
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2633 # 453
CALI: T2633 # 2

BASE M/Z: 43
RIC: 25791.

100337



Library Search Data: T2633 # 508 Base m/z: 43
05/17/90 1:56:00 + 8:28 Cali: T2633 # 2 RIC: 26015.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
285 matched at least 6 of the 16 largest peaks in the unknown

Ketone

Rank	In.	Name
1	6315	3-HEPTANONE, 2,4-DIMETHYL-
2	1264	2,4-PENTANEDIONE
3	613	ETHANONE, 1-OXIRANYL-
4	7550	PENTANE, 3-BROMO-
5	2385	BUTANOIC ACID, ETHENYL ESTER

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C9.H18.O	142	43	839	941	842
2	C5.H8.O2	100	43	777	921	803
3	C4.H6.O2	86	43	770	868	775
4	C5.H11.BR	150	43	722	859	745
5	C6.H10.O2	114	43	722	848	753

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	18641-71-9
2	—	—	—	—	123-54-6
3	—	—	—	—	4401-11-0
4	—	—	—	—	1809-10-5
5	—	—	—	—	123-20-6

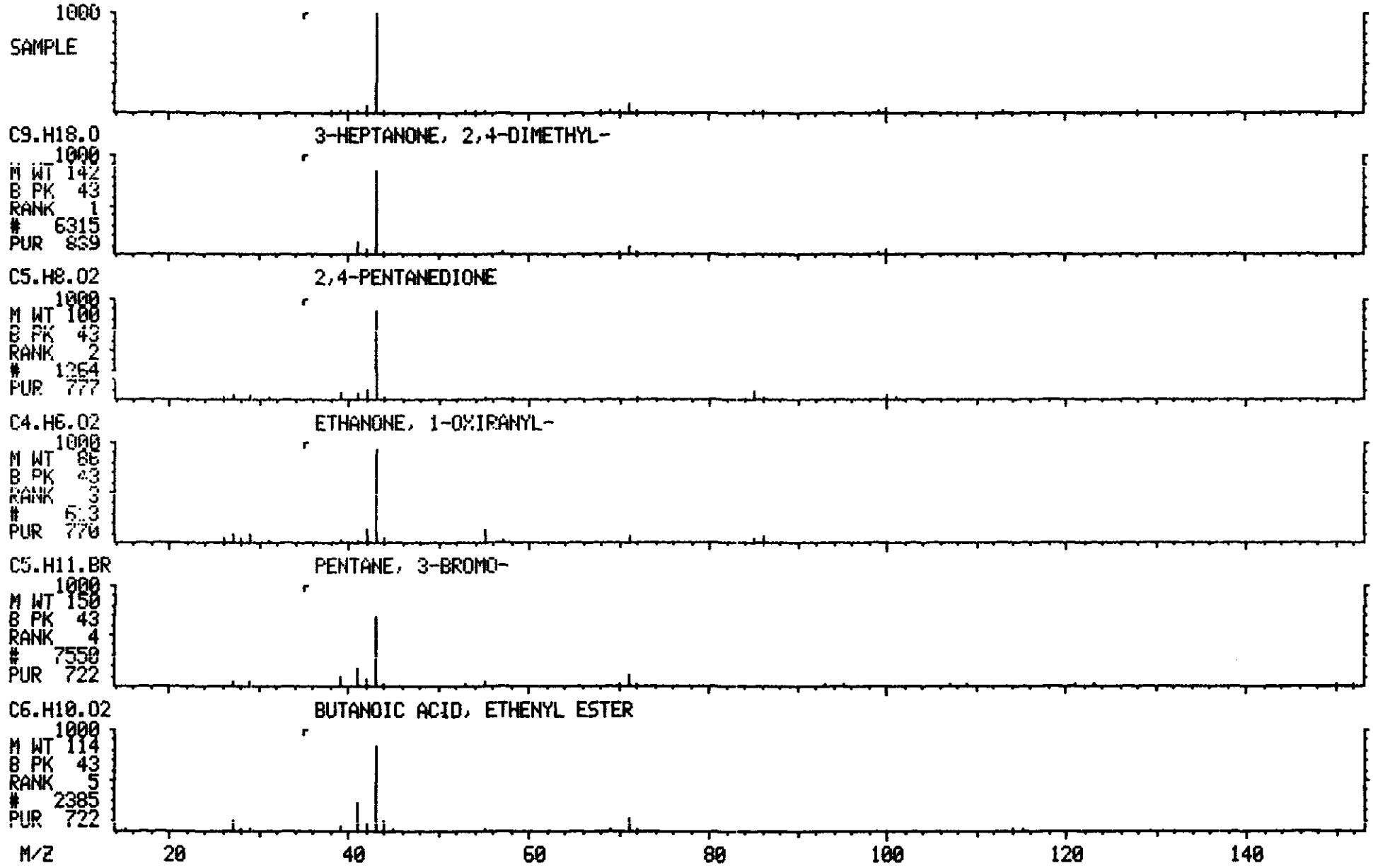
ORIGINAL (Red)

100339

LIBRARY SEARCH
05/17/90 1:56:00 + 8:26
SAMPLE: CLP,VERSCOM,2536,7,L,5,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2633 # 508
CALI: T2633 # 2

BASE M/Z: 43
RIC: 26015.



ORIGINAL (Red)

Library Search Data: T2633 # 585 Base m/z: 43
05/17/90 1:56:00 + 9:45 Cali: T2633 # 2 RIC: 146175.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
128 matched at least 6 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1590	1,2-ETHANEDIOL, MONOACETATE
2	613	ETHANONE, 1-OXIRANYL-
3	2875	BUTANOIC ACID, 3-HYDROXY-, METHYL ESTER
4	6936	HEXANOIC ACID, HYDROXY-, METHYL ESTER
5	6867	1,2-ETHANEDIOL, DIACETATE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C4.H8.O3	104	43	709	953	709
2	C4.H6.O2	86	43	669	885	682
3	C5.H10.O3	118	43	631	750	712
4	C7.H14.O3	146	43	608	717	730
5	C6.H10.O4	146	43	600	806	699

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	542-59-6
2	—	—	—	—	4401-11-0
3	—	—	—	—	1487-49-6
4	—	—	—	—	59942-11-9
5	—	—	—	—	111-55-7

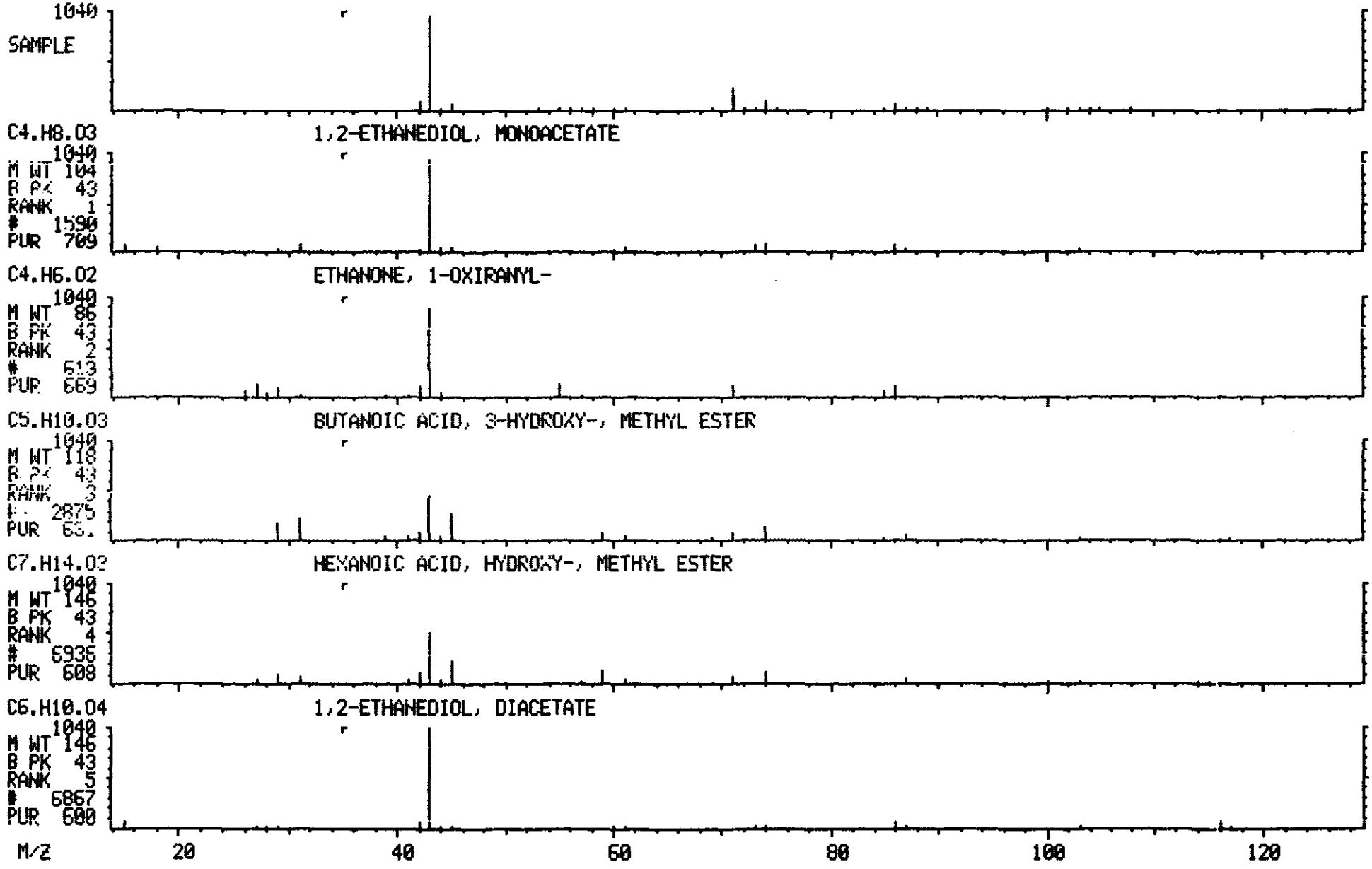
ORIGINAL (Red)

100341

LIBRARY SEARCH
05/17/90 1:55:00 + 9:45
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2633 # 585
CALI: T2633 # 2

BASE M/Z: 43
RIC: 146175.



Library Search Data: T2633 # 942 Base m/z: 43
05/17/90 1:56:00 + 15:42 Cali: T2633 # 2 RIC: 16287.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL
(Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
420 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	18986	PROPANOIC ACID, 2-METHYL-, 2,2-DIMETHYL-1-(2-HYDROXY-1-METHYLETHYL)*
2	18987	PROPANOIC ACID, 2 METHYL-, 3-HYDROXY-2,4,4-TRIMETHYLPENTYL ESTER
3	1181	CYCLOPROPANE, 1,1,2,3-TETRAMETHYL-
4	3783	1-HEXENE, 3,4,5-TRIMETHYL-
5	6650	1-PENTANOL, 4-METHYL-2-PROPYL-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C12.H24.O3	216	71	918	987	918
2	C12.H24.O3	216	56	753	880	772
3	C7.H14	98	55	722	879	722
4	C9.H18	126	43	699	892	699
5	C9.H20.O	144	57	679	837	699

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	74367-33-2
2	—	—	—	—	74367-34-3
3	—	—	—	—	74752-93-5
4	—	—	—	—	56728-10-0
5	—	—	—	—	54004-41-0

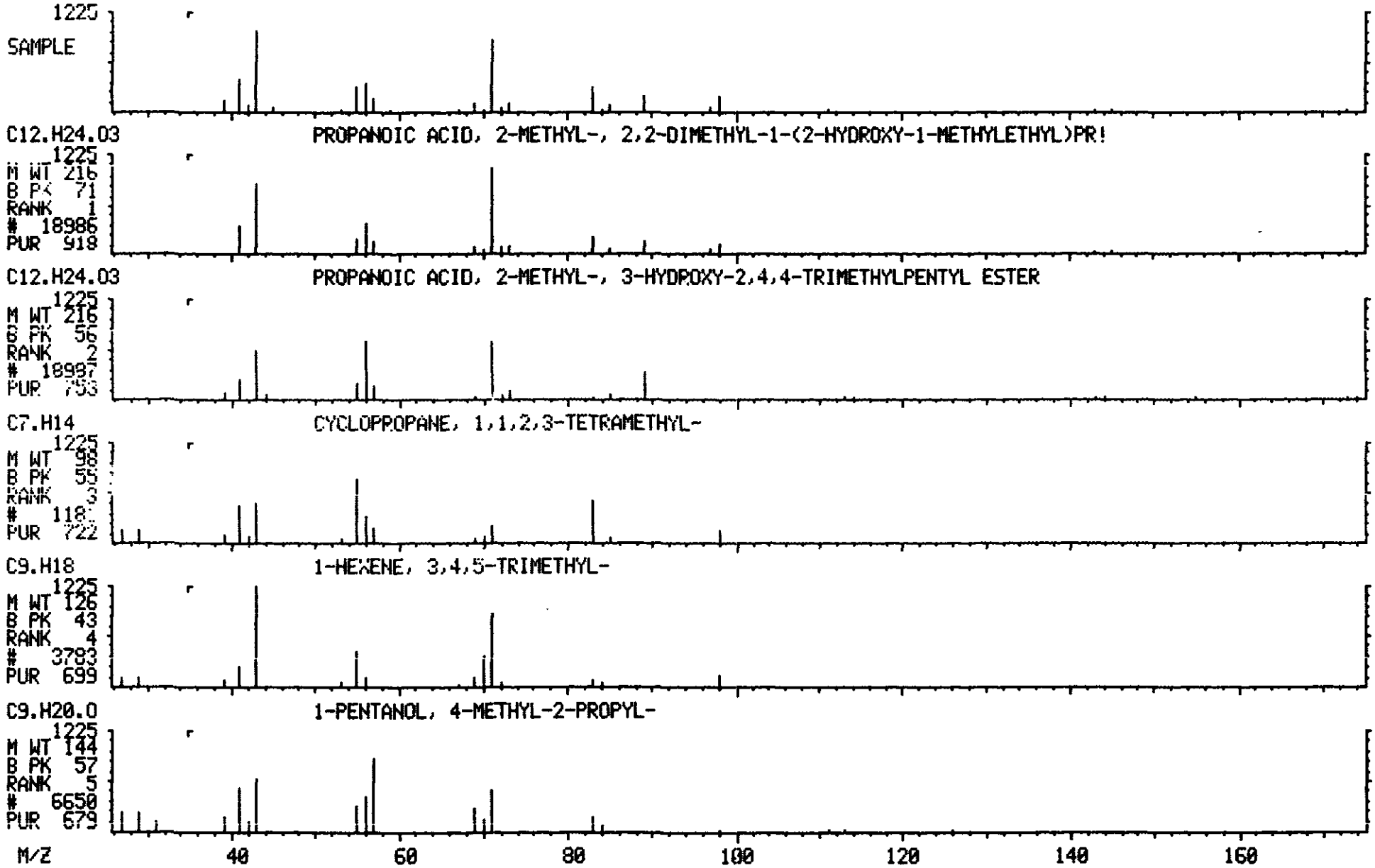
ORIGINAL (Red)

LIBRARY SEARCH
05/17/90 1:56:00 + 15:42
SAMPLE: CLP,VERSCOM,2536,7,L,S,16424,6,,420.1 R#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2633 # 942
CALI: T2633 # 2

BASE M/Z: 43
RIC: 16287.

100343



Library Search Data: T2633 #2041 Base m/z: 59 ORIGINAL
05/17/90 1:56:00 + 34:01 Cali: T2633 # 2 RIC: 58047. (Red)
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
70 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	27222	9-OCTADECENAMIDE, (Z)-
2	2597	PENTANAMIDE, 4-METHYL-
3	1394	PENTANAMIDE
4	27224	9-OCTADECENAMIDE
5	11398	4-HEXEN-1-OL, 5-METHYL-2-(1-METHYLETHENYL)-, MONOEPOXIDE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H35.O.N	281	59	476	863	537
2	C6.H13.O.N	115	59	426	893	432
3	C5.H11.O.N	101	59	384	822	402
4	C18.H35.O.N	281	41	375	675	512
5	C10.H18.O2	170	59	374	857	404

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	301-02-0
2	—	—	—	—	1119-29-5
3	—	—	—	—	626-97-1
4	—	—	—	—	3322-62-1
5	—	—	—	—	72509-75-2

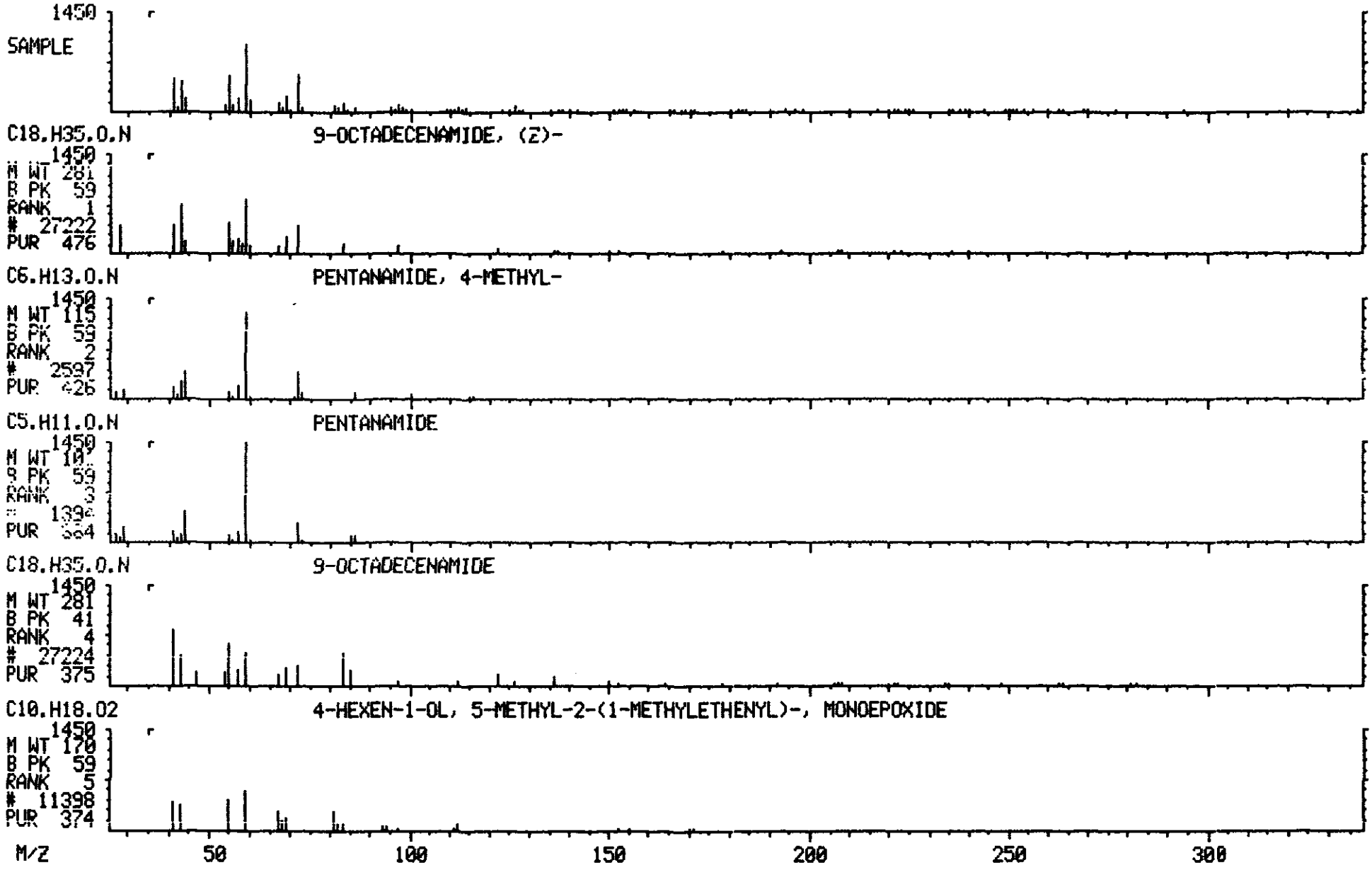
ORIGINAL (Red)

LIBRARY SEARCH
05/17/90 1:56:00 + 34:01
SAMPLE: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 E#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
ENHANCED (S 15P 2N 0T)

DATA: T2633 #2041
CALI: T2633 # 2

BASE M/Z: 59
RIC: 58047.

100345



Library Search Data: T2633 #2158 Base m/z: 252 ORIGINAL
05/17/90 1:56:00 + 35:58 Cali: T2633 # 2 RIC: 51583. (Red)
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
138 matched at least 4 of the 16 largest peaks in the unknown PAH

Rank	In.	Name
1	23964	BENZO[J]FLUORANTHENE
2	23966	BENZO[K]FLUORANTHENE
3	23965	BENZ[E]ACEPHENANTHRYLENE
4	23961	BENZO[A]PYRENE
5	23962	BENZO[E]PYRENE

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C20. H12	252	252	920	989	921
2	C20. H12	252	252	910	982	913
3	C20. H12	252	252	909	978	916
4	C20. H12	252	252	896	974	900
5	C20. H12	252	252	891	968	914

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	205-82-3
2	—	—	—	—	207-08-9
3	—	—	—	—	205-99-2
4	—	—	—	—	50-32-8
5	—	—	—	—	192-97-2

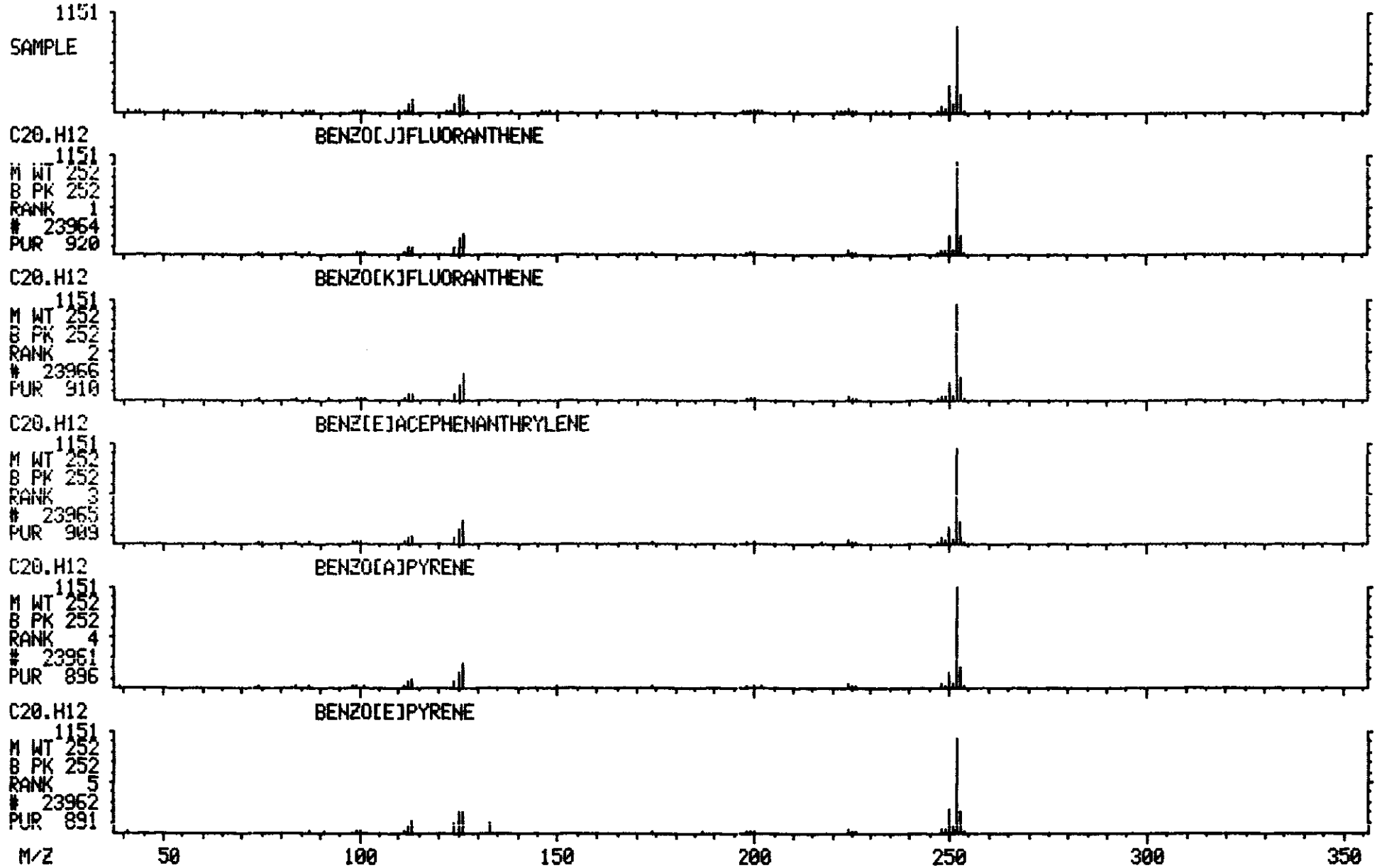
ORIGINAL (Red)

LIBRARY SEARCH
05/17/90 1:56:00 + 35:58
SAMPLE: CLP,VERSCOM,2526,7,L,S,16424,B,,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2633 #2158
CALI: T2633 # 2

BASE M/Z: 252
RIC: 51583.

100347



ORIGINAL (Red)

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>>>>INTERNAL STANDARD RIC REPORT<<<<
*************************INTERNAL STANDARD#1*****************RIC
Mass List                    Data: T2633 # 536        Base m/z:   150
05/17/90  1:56:00 +  8:56    Cali: T2633 #   2        RIC:      99969.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     35       0.00   0.00       0. Minima     Min inten:      0.
     30                     *   0  Maxima
*************************INTERNAL STANDARD#2*****************RIC
Mass List                    Data: T2633 # 755        Base m/z:   136
05/17/90  1:56:00 + 12:35    Cali: T2633 #   2        RIC:     126592.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38       0.00   0.00       0. Minima     Min inten:      0.
     30                     *   0  Maxima
*************************INTERNAL STANDARD#3*****************RIC
Mass List                    Data: T2633 #1087        Base m/z:   164
05/17/90  1:56:00 + 18:07    Cali: T2633 #   2        RIC:     118016.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38       0.00   0.00       0. Minima     Min inten:      0.
     30                     *   0  Maxima
*************************INTERNAL STANDARD#4*****************RIC
Mass List                    Data: T2633 #1370        Base m/z:   188
05/17/90  1:56:00 + 22:50    Cali: T2633 #   2        RIC:     158208.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38       0.00   0.00       0. Minima     Min inten:      0.
     30                     *   0  Maxima
*************************INTERNAL STANDARD#5*****************RIC
Mass List                    Data: T2633 #1887        Base m/z:   240
05/17/90  1:56:00 + 31:27    Cali: T2633 #   2        RIC:     152832.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40       0.00   0.00       0. Minima     Min inten:      0.
     30                     *   0  Maxima
*************************INTERNAL STANDARD#6*****************RIC
Mass List                    Data: T2633 #2187        Base m/z:   264
05/17/90  1:56:00 + 36:27    Cali: T2633 #   2        RIC:     101376.
Sample: CLP,VERSCDM,2536,7,L,S,16424,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40       0.00   0.00       0. Minima     Min inten:      0.
     30                     *   0  Maxima
     ANALYST: CHECK BASE M/Z AND RIC AMOUNT TO INSURE NO CONTAMINATION
```

Versar INC.

ORIGINAL
(Red)

IV. STANDARDS DATA

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Instrument ID: T Calibration Date(s): 05/14/90 05/14/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = T2573 RRF50 = T2569
RRF80 = T2572 RRF120= T2571 RRF160= T2570

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	1.916	1.828	1.768	1.848	1.862	1.844	2.9*
bis(2-Chloroethyl)ether	1.735	1.703	1.597	1.564	1.570	1.634	4.9
2-Chlorophenol	1.335	1.289	1.277	1.217	1.267	1.277	3.3
1,3-Dichlorobenzene	1.503	1.453	1.436	1.409	1.429	1.446	2.5
1,4-Dichlorobenzene *	1.589	1.536	1.504	1.475	1.459	1.513	3.4*
Benzyl alcohol	0.912	0.948	0.947	0.917	0.928	0.930	1.8
1,2-Dichlorobenzene	1.486	1.447	1.440	1.369	1.370	1.422	3.6
2-Methylphenol	1.383	1.396	1.348	1.292	1.301	1.344	3.5
bis(2-Chloroisopropyl)ether	4.113	4.046	3.921	3.712	3.576	3.874	5.8
4-Methylphenol	1.414	1.488	1.412	1.360	1.391	1.413	3.3
N-Nitroso-di-n-propylamine #	1.896	1.921	1.824	1.778	1.750	1.834	4.0#
Hexachloroethane	0.954	0.955	0.892	0.819	0.798	0.884	8.3
Nitrobenzene	0.830	0.821	0.781	0.758	0.749	0.788	4.6
Isophorone	1.361	1.393	1.326	1.304	1.320	1.341	2.7
2-Nitrophenol *	0.243	0.256	0.251	0.248	0.253	0.250	2.0*
2,4-Dimethylphenol	0.572	0.579	0.568	0.548	0.561	0.566	2.1
Benzoic Acid	0.212	0.214	0.216	0.189	0.158	0.198	12.5
bis(2-Chloroethoxy)methane	0.749	0.787	0.737	0.729	0.747	0.750	3.0
2,4-Dichlorophenol *	0.397	0.380	0.390	0.380	0.380	0.385	2.0*
1,2,4-Trichlorobenzene	0.451	0.405	0.415	0.402	0.378	0.410	6.5
Naphthalene	1.378	1.351	1.299	1.265	1.214	1.301	5.1
4-Chloroaniline	0.566	0.601	0.601	0.581	0.587	0.587	2.5
Hexachlorobutadiene *	0.312	0.266	0.281	0.260	0.235	0.271	10.5*
4-Chloro-3-methylphenol *	0.544	0.565	0.555	0.548	0.548	0.552	1.5*
2-Methylnaphthalene	0.862	0.839	0.829	0.783	0.759	0.814	5.2
Hexachlorocyclopentadiene #	0.434	0.440	0.449	0.444	0.435	0.440	1.4#
2,4,6-Trichlorophenol *	0.410	0.397	0.402	0.428	0.434	0.414	3.9*
2,4,5-Trichlorophenol	0.448	0.409	0.414	0.396	0.352	0.404	8.6
2-Chloronaphthalene	1.281	1.214	1.203	1.152	1.136	1.197	4.8
2-Nitroaniline	0.828	0.904	0.888	0.882	0.882	0.877	3.3
Dimethylphthalate	1.623	1.531	1.527	1.496	1.427	1.521	4.6
Acenaphthylene	2.139	2.027	1.989	1.906	1.887	1.990	5.1
2,6-Dinitrotoluene	0.379	0.387	0.386	0.379	0.360	0.378	2.9
3-Nitroaniline	0.436	0.455	0.455	0.444	0.428	0.444	2.7
Acenaphthene *	1.379	1.237	1.214	1.176	1.134	1.228	7.6*
2,4-Dinitrophenol #	0.168	0.229	0.242	0.250	0.257	0.229	15.6#
4-Nitrophenol #	0.281	0.294	0.349	0.342	0.302	0.314	9.6#

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Instrument ID: T Calibration Date(s): 05/14/90 05/14/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = T2573 RRF50 = T2569
RRF80 = T2572 RRF120= T2571 RRF160= T2570

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.974	1.770	1.724	1.676	1.621	1.753	7.7
2,4-Dinitrotoluene	0.531	0.530	0.531	0.511	0.486	0.518	3.8
Diethylphthalate	1.902	1.781	1.814	1.759	1.623	1.776	5.7
4-Chlorophenyl-phenylether	0.829	0.736	0.703	0.684	0.636	0.718	10.0
uorene	1.573	1.393	1.370	1.322	1.249	1.381	8.7
4-Nitroaniline	0.369	0.407	0.436	0.363	0.313	0.378	12.4
4,6-Dinitro-2-methylphenol	0.268	0.312	0.317	0.300	0.200	0.279	17.3
N-nitrosodiphenylamine (1) *	1.170	1.057	1.026	0.981	0.925	1.032	8.9*
4-Bromophenyl-phenylether	0.470	0.454	0.470	0.451	0.432	0.455	3.5
Hexachlorobenzene	0.598	0.537	0.553	0.525	0.493	0.541	7.1
Pentachlorophenol *	0.127	0.148	0.159	0.157	0.162	0.151	9.4*
Phenanthrene	1.203	1.114	1.059	1.047	0.993	1.083	7.3
Anthracene	1.219	1.092	1.006	0.912	0.812	1.008	15.6
-n-butylphthalate	1.779	1.667	1.649	1.477	1.340	1.582	11.0
Fluoranthene *	1.214	1.109	1.076	0.963	0.876	1.048	12.5*
Pyrene	1.689	1.446	1.321	1.255	1.247	1.392	13.2
Butylbenzylphthalate	0.875	0.846	0.814	0.834	0.846	0.843	2.6
3,3'-Dichlorobenzidine	0.348	0.292	0.318	0.333	0.317	0.322	6.5
Benzo(a)anthracene	1.086	1.053	1.034	1.083	1.148	1.081	4.0
Chrysene	0.861	0.805	0.711	0.712	0.668	0.751	10.5
s(2-Ethylhexyl)phthalate	1.185	1.156	1.098	1.093	1.157	1.138	3.5
-n-octyl phthalate *	2.280	2.333	2.206	2.204	1.874	2.179	8.2*
Benzo(b)fluoranthene	1.251	1.200	1.209	1.201	1.163	1.205	2.6
Benzo(k)fluoranthene	1.165	1.108	0.936	0.954	0.906	1.014	11.4
Benzo(a)pyrene *	1.109	1.092	1.058	1.026	0.975	1.052	5.1*
Indeno(1,2,3-cd)pyrene	0.891	0.917	0.904	0.967	0.960	0.928	3.7
Dibenz(a,h)anthracene	0.814	0.822	0.819	0.899	0.896	0.850	5.1
Benzo(g,h,i)perylene	0.888	0.923	0.890	0.968	0.941	0.922	3.7
Nitrobenzene-d5	0.754	0.764	0.734	0.726	0.707	0.737	3.1
2-Fluorobiphenyl	1.381	1.281	1.257	1.231	1.189	1.268	5.7
Terphenyl-d14	1.083	0.943	0.900	0.880	0.872	0.936	9.3
Phenol-d5	1.700	1.620	1.609	1.592	1.622	1.629	2.6
2-Fluorophenol	1.191	1.052	1.106	1.158	1.138	1.129	4.7
2,4,6-Tribromophenol	0.301	0.271	0.310	0.286	0.271	0.288	6.1

(1) Cannot be separated from Diphenylamine

6B

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Instrument ID: T Calibration Date(s): 05/16/90 05/16/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = T2628 RRF50 = T2624
RRF80 = T2627 RRF120= T2626 RRF160= T2625

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Phenol *	2.356	2.069	2.179	2.095	2.000	2.140	6.4*
bis(2-Chloroethyl)ether	1.953	1.683	1.742	1.725	1.535	1.728	8.7
2-Chlorophenol	1.438	1.379	1.410	1.372	1.410	1.402	1.9
1,3-Dichlorobenzene	1.533	1.469	1.523	1.440	1.499	1.493	2.6
1,4-Dichlorobenzene *	1.620	1.567	1.599	1.513	1.473	1.554	3.9*
Benzyl alcohol	1.029	1.013	1.052	1.003	1.009	1.021	1.9
1,2-Dichlorobenzene	1.475	1.435	1.457	1.387	1.395	1.430	2.7
2-Methylphenol	1.554	1.472	1.474	1.412	1.375	1.457	4.7
bis(2-Chloroisopropyl)ether	3.821	3.707	3.741	3.471	3.231	3.594	6.7
4-Methylphenol	1.577	1.527	1.515	1.475	1.463	1.511	3.0
N-Nitroso-di-n-propylamine #	1.630	1.410	1.522	1.530	1.427	1.504	5.9#
Hexachloroethane	0.875	0.846	0.844	0.793	0.775	0.827	5.0
Nitrobenzene	0.797	0.702	0.736	0.731	0.663	0.726	6.8
Isophorone	1.354	1.244	1.335	1.268	1.203	1.281	4.9
2-Nitrophenol *	0.238	0.251	0.259	0.251	0.263	0.252	3.8*
2,4-Dimethylphenol	0.524	0.512	0.538	0.540	0.546	0.532	2.6
Benzoic Acid	0.197	0.187	0.245	0.173	0.032	0.167	48.0
bis(2-Chloroethoxy)methane	0.799	0.754	0.767	0.748	0.732	0.760	3.3
2,4-Dichlorophenol *	0.353	0.376	0.390	0.372	0.395	0.377	4.4*
1,2,4-Trichlorobenzene	0.372	0.387	0.395	0.383	0.384	0.384	2.2
Naphthalene	1.411	1.388	1.394	1.234	1.050	1.295	11.9
4-Chloroaniline	0.612	0.621	0.629	0.608	0.606	0.615	1.6
Hexachlorobutadiene *	0.293	0.283	0.276	0.258	0.243	0.271	7.4*
4-Chloro-3-methylphenol *	0.506	0.488	0.508	0.504	0.490	0.499	1.9*
2-Methylnaphthalene	0.796	0.833	0.852	0.806	0.740	0.805	5.3
Hexachlorocyclopentadiene #	0.481	0.513	0.505	0.487	0.497	0.497	2.6#
2,4,6-Trichlorophenol *	0.384	0.392	0.418	0.414	0.483	0.418	9.3*
2,4,5-Trichlorophenol	0.433	0.424	0.436	0.387	0.316	0.399	12.6
2-Chloronaphthalene	1.248	1.238	1.276	1.202	1.165	1.226	3.5
2-Nitroaniline	0.944	0.856	0.888	0.862	0.781	0.866	6.8
Dimethylphthalate	1.540	1.504	1.571	1.450	1.294	1.472	7.4
Acenaphthylene	2.040	2.019	2.085	1.882	1.795	1.964	6.2
2,6-Dinitrotoluene	0.366	0.346	0.373	0.346	0.314	0.349	6.6
3-Nitroaniline	0.485	0.455	0.491	0.451	0.422	0.461	6.1
Acenaphthene *	1.307	1.270	1.307	1.213	1.162	1.252	5.1*
2,4-Dinitrophenol #	0.183	0.226	0.251	0.245	0.147	0.210	21.1#
4-Nitrophenol #	0.391	0.430	0.445	0.390	0.247	0.381	20.6#

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Instrument ID: T Calibration Date(s): 05/16/90 05/16/90

Min $\overline{RRF}$ for SPCC(#) = 0.050 Max %RSD for CCC(*) = 30.0%

LAB FILE ID: RRF20 = T2628 RRF50 = T2624
RRF80 = T2627 RRF120= T2626 RRF160= T2625

COMPOUND	RRF20	RRF50	RRF80	RRF120	RRF160	$\overline{RRF}$	% RSD
Dibenzofuran	1.977	1.911	1.933	1.742	1.537	1.820	10.0
2,4-Dinitrotoluene	0.566	0.515	0.522	0.491	0.432	0.505	9.7
Diethylphthalate	1.846	1.842	1.994	1.757	1.431	1.774	11.8
4-Chlorophenyl-phenylether	0.896	0.841	0.817	0.743	0.659	0.791	11.6
[illegible]orene	1.481	1.561	1.645	1.447	1.251	1.477	10.0
4-Nitroaniline	0.522	0.471	0.475	0.379	0.200	0.409	31.3
4,6-Dinitro-2-methylphenol	0.304	0.363	0.356	0.259	0.178	0.292	26.2
N-nitrosodiphenylamine (1) *	1.220	1.164	1.156	1.062	0.950	1.110	9.6*
4-Bromophenyl-phenylether	0.673	0.673	0.640	0.565	0.519	0.614	11.2
Hexachlorobenzene	0.925	0.899	0.823	0.690	0.632	0.794	16.2
Pentachlorophenol *	0.178	0.216	0.208	0.187	0.191	0.196	8.0*
Phenanthrene	1.168	1.074	1.107	1.052	0.954	1.071	7.3
Anthracene	1.173	1.101	1.073	0.904	0.731	0.996	17.9
[illegible]-n-butylphthalate	1.673	1.439	1.350	1.299	1.132	1.379	14.4
Fluoranthene *	1.459	1.403	1.302	1.037	0.838	1.208	21.8*
Pyrene	1.218	1.230	1.099	1.092	1.039	1.136	7.4
Butylbenzylphthalate	0.572	0.598	0.601	0.632	0.613	0.603	3.6
3,3'-Dichlorobenzidine	0.400	0.326	0.326	0.304	0.305	0.332	11.9
Benzo(a)anthracene	1.098	1.020	0.979	0.994	0.986	1.015	4.8
Chrysene	0.935	0.807	0.763	0.716	0.637	0.772	14.4
[illegible](2-Ethylhexyl)phthalate	0.843	0.838	0.821	0.860	0.899	0.852	3.5
[illegible]-n-octyl phthalate *	1.420	1.437	1.241	1.102	0.962	1.232	16.6*
Benzo(b)fluoranthene	1.157	1.156	1.077	0.991	0.843	1.045	12.6
Benzo(k)fluoranthene	1.115	1.086	0.935	0.710	0.596	0.888	25.8
Benzo(a)pyrene *	1.065	1.101	1.017	0.858	0.802	0.969	13.6*
Indeno(1,2,3-cd)pyrene	0.838	0.876	0.941	0.894	0.448	0.799	25.0
Dibenz(a,h)anthracene	0.836	0.831	0.869	0.789	0.745	0.814	5.9
Benzo(g,h,i)perylene	0.843	0.894	0.894	0.831	0.753	0.843	6.9
Nitrobenzene-d5	0.730	0.660	0.707	0.694	0.661	0.690	4.4
2-Fluorobiphenyl	1.316	1.330	1.350	1.254	1.186	1.287	5.2
Terphenyl-d14	0.914	0.946	0.845	0.824	0.815	0.869	6.7
Phenol-d5	2.028	1.807	1.839	1.818	1.786	1.856	5.3
2-Fluorophenol	1.438	1.255	1.312	1.354	1.321	1.336	5.0
2,4,6-Tribromophenol	0.415	0.441	0.432	0.384	0.340	0.402	10.2

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Instrument ID: T Calibration date: 05/15/90 Time: 942

Lab File ID: T2583 Init. Calib. Date(s): 05/14/90 05/14/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.844	1.749	5.2	*
bis(2-Chloroethyl)ether		1.634	1.605	1.8	
2-Chlorophenol		1.277	1.271	0.5	
1,3-Dichlorobenzene		1.446	1.485	-2.7	
1,4-Dichlorobenzene	*	1.513	1.532	-1.3	*
Benzyl alcohol		0.930	0.882	5.2	
1,2-Dichlorobenzene		1.422	1.449	-1.9	
2-Methylphenol		1.344	1.322	1.6	
bis(2-Chloroisopropyl)ether		3.874	3.994	-3.1	
4-Methylphenol		1.413	1.393	1.4	
N-Nitroso-di-n-propylamine	#	1.834	1.807	1.5	#
Hexachloroethane		0.884	0.946	-7.0	
Nitrobenzene		0.788	0.785	0.4	
Isophorone		1.341	1.334	0.5	
2-Nitrophenol	*	0.250	0.242	3.2	*
2,4-Dimethylphenol		0.566	0.559	1.2	
Benzoic Acid		0.198	0.169	14.6	
bis(2-Chloroethoxy)methane		0.750	0.752	-0.3	
2,4-Dichlorophenol	*	0.385	0.392	-1.8	*
1,2,4-Trichlorobenzene		0.410	0.434	-5.9	
Naphthalene		1.301	1.339	-2.9	
4-Chloroaniline		0.587	0.594	-1.2	
Hexachlorobutadiene	*	0.271	0.298	-10.0	*
4-Chloro-3-methylphenol	*	0.552	0.541	2.0	*
2-Methylnaphthalene		0.814	0.870	-6.9	
Hexachlorocyclopentadiene	#	0.440	0.434	1.4	#
2,4,6-Trichlorophenol	*	0.414	0.382	7.7	*
2,4,5-Trichlorophenol		0.404	0.421	-4.2	
2-Chloronaphthalene		1.197	1.214	-1.4	
2-Nitroaniline		0.877	0.823	6.2	
Dimethylphthalate		1.521	1.539	-1.2	
Acenaphthylene		1.990	2.016	-1.3	
2,6-Dinitrotoluene		0.378	0.372	1.6	
3-Nitroaniline		0.444	0.435	2.0	
Acenaphthene	*	1.228	1.268	-3.3	*
2,4-Dinitrophenol	#	0.229	0.201	12.2	#
4-Nitrophenol	#	0.314	0.309	1.6	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Instrument ID: T Calibration date: 05/15/90 Time: 942

Lab File ID: T2583 Init. Calib. Date(s): 05/14/90 05/14/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	$\overline{RRF}$	RRF50	%D
Dibenzofuran	1.753	1.796	-2.5
2,4-Dinitrotoluene	0.518	0.510	1.5
Diethylphthalate	1.776	1.835	-3.3
4-Chlorophenyl-phenylether	0.718	0.737	-2.6
Fluorene	1.381	1.425	-3.2
4-Nitroaniline	0.378	0.407	-7.7
4,6-Dinitro-2-methylphenol	0.279	0.297	-6.5
N-nitrosodiphenylamine (1) *	1.032	1.077	-4.4 *
4-Bromophenyl-phenylether	0.455	0.465	-2.2
Hexachlorobenzene	0.541	0.578	-6.8
Pentachlorophenol *	0.151	0.143	5.3 *
Phenanthrene	1.083	1.099	-1.5
Anthracene	1.008	1.087	-7.8
Di-n-butylphthalate	1.582	1.695	-7.1
Fluoranthene *	1.048	1.160	-10.7 *
Pyrene	1.392	1.316	5.5
Butylbenzylphthalate	0.843	0.792	6.0
3,3'-Dichlorobenzidine	0.322	0.325	-0.9
Benzo(a)anthracene	1.081	1.014	6.2
Chrysene	0.751	0.752	-0.1
bis(2-Ethylhexyl)phthalate	1.138	1.094	3.9
Di-n-octyl phthalate *	2.179	2.143	1.7 *
Benzo(b)fluoranthene	1.205	1.154	4.2
Benzo(k)fluoranthene	1.014	0.999	1.5
Benzo(a)pyrene *	1.052	1.068	-1.5 *
Indeno(1,2,3-cd)pyrene	0.928	0.877	5.5
Dibenz(a,h)anthracene	0.850	0.862	-1.4
Benzo(g,h,i)perylene	0.922	0.896	2.8
Nitrobenzene-d5	0.737	0.717	2.7
2-Fluorobiphenyl	1.268	1.282	-1.1
Terphenyl-d14	0.936	0.864	7.7
Phenol-d5	1.629	1.541	5.4
2-Fluorophenol	1.129	1.056	6.5
2,4,6-Tribromophenol	0.288	0.313	-8.7

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Instrument ID: T Calibration date: 05/15/90 Time: 2257

Lab File ID: T2598 Init. Calib. Date(s): 05/14/90 05/14/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	1.844	2.028	-10.0	*
bis(2-Chloroethyl)ether		1.634	1.706	-4.4	
2-Chlorophenol		1.277	1.316	-3.1	
1,3-Dichlorobenzene		1.446	1.451	-0.3	
1,4-Dichlorobenzene	*	1.513	1.547	-2.2	*
Benzyl alcohol		0.930	1.006	-8.2	
1,2-Dichlorobenzene		1.422	1.456	-2.4	
2-Methylphenol		1.344	1.416	-5.4	
bis(2-Chloroisopropyl)ether		3.874	4.360	-12.6	
4-Methylphenol		1.413	1.479	-4.7	
N-Nitroso-di-n-propylamine	#	1.834	1.997	-8.9	#
Hexachloroethane		0.884	0.978	-10.6	
Nitrobenzene		0.788	0.864	-9.6	
Isophorone		1.341	1.434	-6.9	
2-Nitrophenol	*	0.250	0.252	-0.8	*
2,4-Dimethylphenol		0.566	0.574	-1.4	
Benzoic Acid		0.198	0.190	4.0	
bis(2-Chloroethoxy)methane		0.750	0.763	-1.7	
2,4-Dichlorophenol	*	0.385	0.401	-4.2	*
1,2,4-Trichlorobenzene		0.410	0.436	-6.3	
Naphthalene		1.301	1.360	-4.5	
4-Chloroaniline		0.587	0.604	-2.9	
Hexachlorobutadiene	*	0.271	0.322	-18.8	*
4-Chloro-3-methylphenol	*	0.552	0.571	-3.4	*
2-Methylnaphthalene		0.814	0.850	-4.4	
Hexachlorocyclopentadiene	#	0.440	0.483	-9.8	#
2,4,6-Trichlorophenol	*	0.414	0.406	1.9	*
2,4,5-Trichlorophenol		0.404	0.443	-9.7	
2-Chloronaphthalene		1.197	1.213	-1.3	
2-Nitroaniline		0.877	0.902	-2.9	
Dimethylphthalate		1.521	1.564	-2.8	
Acenaphthylene		1.990	1.999	-0.5	
2,6-Dinitrotoluene		0.378	0.373	1.3	
3-Nitroaniline		0.444	0.433	2.5	
Acenaphthene	*	1.228	1.228	0.0	*
2,4-Dinitrophenol	#	0.229	0.250	-9.2	#
4-Nitrophenol	#	0.314	0.400	-27.4	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Instrument ID: T Calibration date: 05/15/90 Time: 2257

Lab File ID: T2598 Init. Calib. Date(s): 05/14/90 05/14/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Dibenzofuran		1.753	1.844	-5.2	
2,4-Dinitrotoluene		0.518	0.530	-2.3	
Diethylphthalate		1.776	1.882	-6.0	
4-Chlorophenyl-phenylether		0.718	0.799	-11.3	
Fluorene		1.381	1.464	-6.0	
4-Nitroaniline		0.378	0.436	-15.3	
4,6-Dinitro-2-methylphenol		0.279	0.342	-22.6	
N-nitrosodiphenylamine (1)	*	1.032	1.141	-10.6	*
4-Bromophenyl-phenylether		0.455	0.543	-19.3	
Hexachlorobenzene		0.541	0.665	-22.9	
Pentachlorophenol	*	0.151	0.172	-13.9	*
Phenanthrene		1.083	1.089	-0.6	
Anthracene		1.008	1.094	-8.5	
Di-n-butylphthalate		1.582	1.691	-6.9	
Fluoranthene	*	1.048	1.278	-22.0	*
Pyrene		1.392	1.332	4.3	
Butylbenzylphthalate		0.843	0.846	-0.4	
3,3'-Dichlorobenzidine		0.322	0.321	0.3	
Benzo(a)anthracene		1.081	1.039	3.9	
Chrysene		0.751	0.799	-6.4	
bis(2-Ethylhexyl)phthalate		1.138	1.172	-3.0	
Di-n-octyl phthalate	*	2.179	2.177	0.1	*
Benzo(b)fluoranthene		1.205	1.231	-2.2	
Benzo(k)fluoranthene		1.014	0.998	1.6	
Benzo(a)pyrene	*	1.052	1.079	-2.6	*
Indeno(1,2,3-cd)pyrene		0.928	0.917	1.2	
Dibenz(a,h)anthracene		0.850	0.815	4.1	
Benzo(g,h,i)perylene		0.922	0.915	0.8	
Nitrobenzene-d5		0.737	0.811	-10.0	
2-Fluorobiphenyl		1.268	1.294	-2.0	
Terphenyl-d14		0.936	0.919	1.8	
Phenol-d5		1.629	1.810	-11.1	
2-Fluorophenol		1.129	1.219	-8.0	
2,4,6-Tribromophenol		0.288	0.349	-21.2	

(1) Cannot be separated from Diphenylamine

7B

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Instrument ID: T Calibration date: 05/17/90 Time: 942

Lab File ID: T2641 Init. Calib. Date(s): 05/16/90 05/16/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND		$\overline{RRF}$	RRF50	%D	
Phenol	*	2.140	2.075	3.0	*
bis(2-Chloroethyl)ether		1.728	1.607	7.0	
2-Chlorophenol		1.402	1.365	2.6	
1,3-Dichlorobenzene		1.493	1.518	-1.7	
1,4-Dichlorobenzene	*	1.554	1.586	-2.1	*
Benzyl alcohol		1.021	0.974	4.6	
1,2-Dichlorobenzene		1.430	1.465	-2.4	
2-Methylphenol		1.457	1.422	2.4	
bis(2-Chloroisopropyl)ether		3.594	2.937	18.3	
4-Methylphenol		1.511	1.495	1.1	
N-Nitroso-di-n-propylamine	#	1.504	1.436	4.5	#
Hexachloroethane		0.827	0.836	-1.1	
Nitrobenzene		0.726	0.645	11.2	
Isophorone		1.281	1.184	7.6	
2-Nitrophenol	*	0.252	0.244	3.2	*
2,4-Dimethylphenol		0.532	0.497	6.6	
Benzoic Acid		0.167	0.199	-19.2	
bis(2-Chloroethoxy)methane		0.760	0.724	4.7	
2,4-Dichlorophenol	*	0.377	0.379	-0.5	*
1,2,4-Trichlorobenzene		0.384	0.401	-4.4	
Naphthalene		1.295	1.364	-5.3	
4-Chloroaniline		0.615	0.605	1.6	
Hexachlorobutadiene	*	0.271	0.295	-8.9	*
4-Chloro-3-methylphenol	*	0.499	0.476	4.6	*
2-Methylnaphthalene		0.805	0.838	-4.1	
Hexachlorocyclopentadiene	#	0.497	0.469	5.6	#
2,4,6-Trichlorophenol	*	0.418	0.425	-1.7	*
2,4,5-Trichlorophenol		0.399	0.427	-7.0	
2-Chloronaphthalene		1.226	1.239	-1.1	
2-Nitroaniline		0.866	0.719	17.0	
Dimethylphthalate		1.472	1.483	-0.7	
Acenaphthylene		1.964	1.963	0.1	
2,6-Dinitrotoluene		0.349	0.348	0.3	
3-Nitroaniline		0.461	0.447	3.0	
Acenaphthene	*	1.252	1.258	-0.5	*
2,4-Dinitrophenol	#	0.210	0.209	0.5	#
4-Nitrophenol	#	0.381	0.336	11.8	#

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

La. Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Instrument ID: T Calibration date: 05/17/90 Time: 942

Lab File ID: T2641 Init. Calib. Date(s): 05/16/90 05/16/90

Min RRF50 for SPCC(#) = 0.050 Max %D for CCC(*) = 25.0%

COMPOUND	$\overline{RRF}$	RRF50	%D
Dibenzofuran	1.820	1.876	-3.1
2,4-Dinitrotoluene	0.505	0.491	2.8
Diethylphthalate	1.774	1.807	-1.9
4-Chlorophenyl-phenylether	0.791	0.866	-9.5
Fluorene	1.477	1.608	-8.9
4-Nitroaniline	0.409	0.395	3.4
4,6-Dinitro-2-methylphenol	0.292	0.321	-9.9
N-nitrosodiphenylamine (1) *	1.110	1.127	-1.5 *
4-Bromophenyl-phenylether	0.614	0.646	-5.2
Hexachlorobenzene	0.794	0.853	-7.4
Pentachlorophenol *	0.196	0.193	1.5 *
Phenanthrene	1.071	1.166	-8.9
Anthracene	0.996	1.088	-9.2
Di-n-butylphthalate	1.379	1.386	-0.5
Fluoranthene *	1.208	1.324	-9.6 *
Pyrene	1.136	1.191	-4.8
Butylbenzylphthalate	0.603	0.524	13.1
3,3'-Dichlorobenzidine	0.332	0.341	-2.7
Benzo(a)anthracene	1.015	1.050	-3.4
Chrysene	0.772	0.777	-0.6
bis(2-Ethylhexyl)phthalate	0.852	0.782	8.2
Di-n-octyl phthalate *	1.232	1.451	-17.8 *
Benzo(b)fluoranthene	1.045	1.298	-24.2
Benzo(k)fluoranthene	0.888	0.970	-9.2
Benzo(a)pyrene *	0.969	1.079	-11.4 *
Indeno(1,2,3-cd)pyrene	0.799	0.828	-3.6
Dibenz(a,h)anthracene	0.814	0.829	-1.8
Benzo(g,h,i)perylene	0.843	0.830	1.5
Nitrobenzene-d5	0.690	0.641	7.1
2-Fluorobiphenyl	1.287	1.293	-0.5
Terphenyl-d14	0.869	0.871	-0.2
Phenol-d5	1.856	1.710	7.9
2-Fluorophenol	1.336	1.217	8.9
2,4,6-Tribromophenol	0.402	0.358	11.0

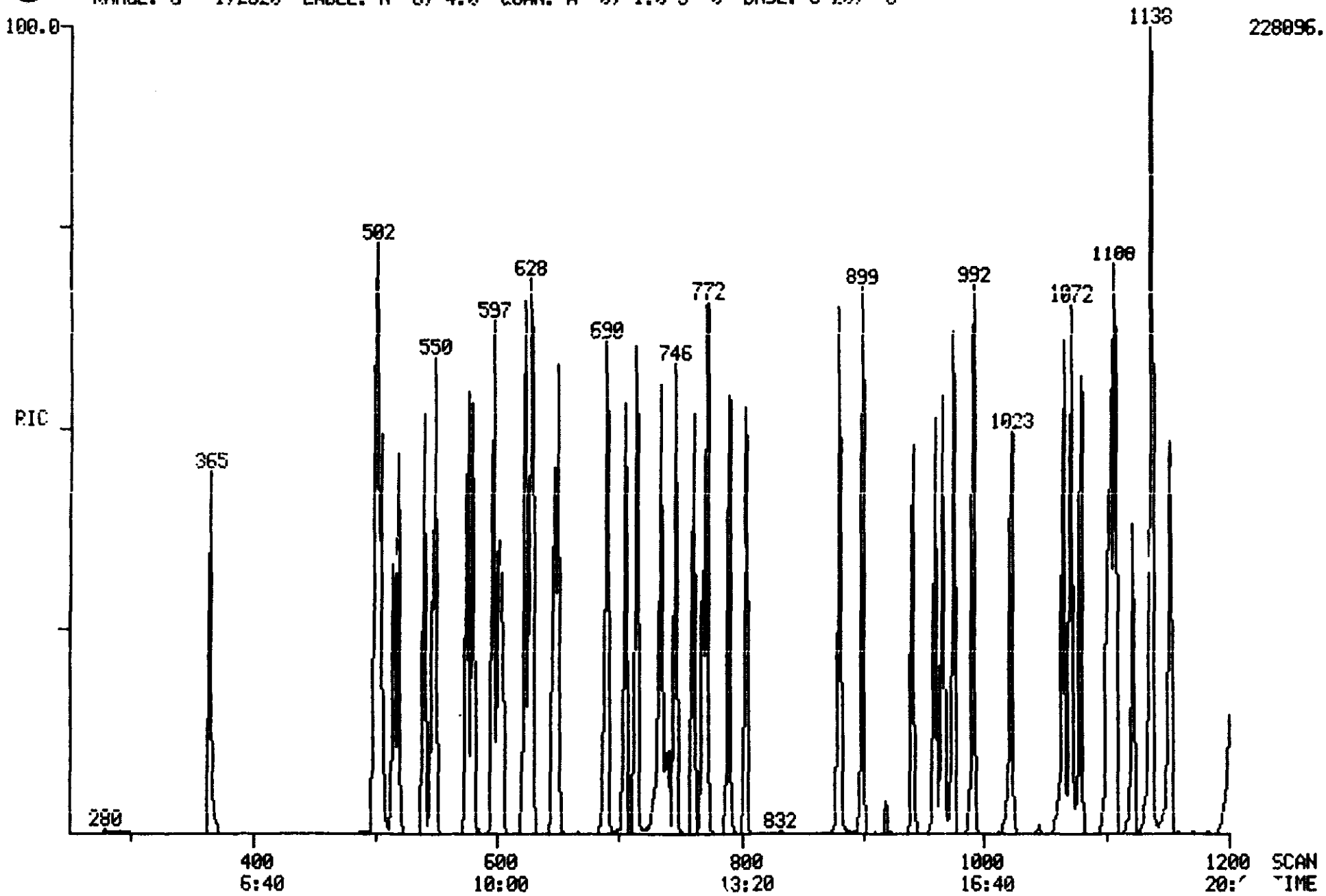
(1) Cannot be separated from Diphenylamine

ORIGINAL (Red)

RIC
05/14/90 21:13:00
SAMPLE: CLP,,,SSTD80,,,22661,B,IC80,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: C 1,2820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2572 #2391
CALI: T2572 #2

SCANS 250 TO 1200



100360

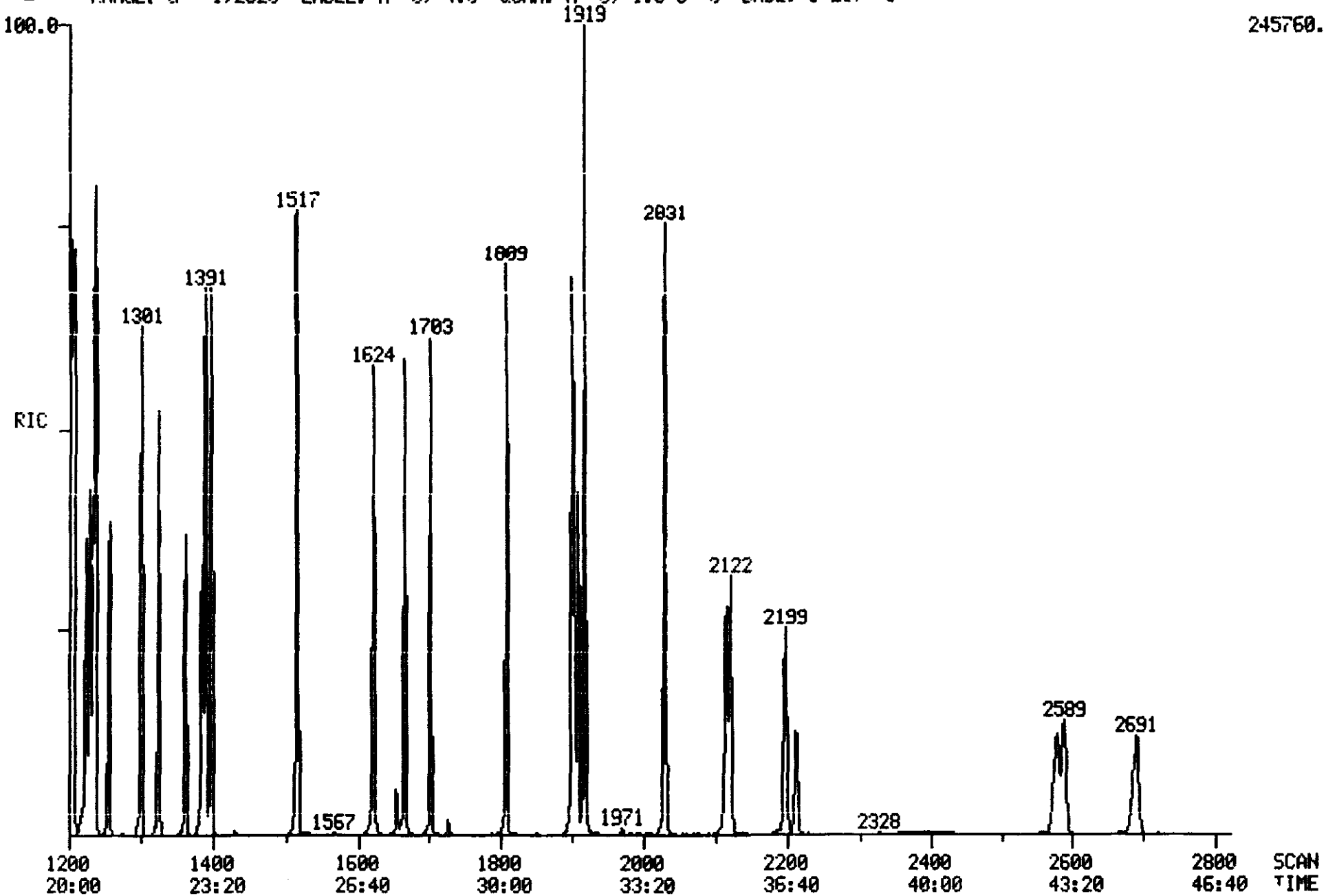
ORIGINAL (Red)

RIC
05/14/90 21:13:00
SAMPLE: CLP,,,SSTD80,,,22661,B,IC20,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
RANGE: G 1,2820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2572 #2391
CALI: T2572 #2

SCANS 1200 TO 2820

100361



Quantitation Report File: T2573

Data: T2573.TI
05/14/90 22:07:00
Sample: CLP,,,SSTD20,,,22662,B,IC20,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: ---

ORIGINAL
(Red)

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

ORIGINAL
(Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	547	9:07	1	1.000	A BB	14214.	40.000	NG/UL	2.41
2	128	518	8:38	1	0.947	A BB	9491.	20.000	NG.	1.20
3	94	501	8:21	1	0.916	A BB	13614.	20.000	NG.	1.20
4	93	514	8:34	1	0.940	A BB	12331.	20.000	NG	1.20
5	146	540	9:00	1	0.987	A BB	10684.	20.000	NG	1.20
6	146	549	9:09	1	1.004	A BB	11293.	20.000	NG.	1.20
7	146	580	9:40	1	1.060	A BB	10560.	20.000	NG	1.20
8	108	575	9:35	1	1.051	A BB	6483.	20.000	NG	1.20
9	45	601	10:01	1	1.099	A BB	29234.	20.000	NG	1.20
10	108	596	9:56	1	1.090	A BB	9831.	20.000	NG	1.20
11	117	629	10:29	1	1.150	A BB	6782.	20.000	NG	1.20
12	108	621	10:21	1	1.135	A BB	10051.	20.000	NG	1.20
13	70	625	10:25	1	1.143	A BB	13474.	20.000	NG.	1.20
14	112	365	6:05	1	0.667	A BB	8466.	20.000	NG*A1	1.20
15	99	499	8:19	1	0.912	A BB	12081.	20.000	NG*A2	1.20
16	136	767	12:47	16	1.000	A BB	47653.	40.000	NG/UL	2.41
17	77	650	10:50	16	0.847	A BB	19777.	20.000	NG	1.20
18	82	689	11:29	16	0.898	A BB	32421.	20.000	NG	1.20
19	139	705	11:45	16	0.919	A BB	5800.	20.000	NG	1.20
20	107	713	11:53	16	0.930	A BB	13628.	20.000	NG	1.20
21	93	733	12:13	16	0.956	A BB	17841.	20.000	NG	1.20
22	162	745	12:25	16	0.971	A BB	9467.	20.000	NG	1.20
23	180	760	12:40	16	0.991	A BB	10749.	20.000	NG.	1.20
24	128	771	12:51	16	1.005	A BB	32837.	20.000	NG	1.20
25	122	731	12:11	16	0.953	A BB	5053.	20.000	NG	1.20
26	127	789	13:09	16	1.029	A BB	13493.	20.000	NG	1.20
27	225	803	13:23	16	1.047	A BB	7440.	20.000	NG	1.20
28	107	880	14:40	16	1.147	A BB	12962.	20.000	NG.	1.20
29	142	899	14:59	16	1.172	A BB	20538.	20.000	NG	1.20
30	82	646	10:46	16	0.842	A BB	17963.	20.000	NG*B1	1.20
31	164	1101	18:21	31	1.000	A BB	35828.	40.000	NG/UL	2.41
32	237	941	15:41	31	0.855	A BB	7774.	20.000	NG	1.20
33	196	959	15:59	31	0.871	A BB	7336.	20.000	NG	1.20
34	196	966	16:06	31	0.877	A BB	8026.	20.000	NG	1.20
35	162	991	16:31	31	0.900	A BB	22939.	20.000	NG	1.20
36	65	1023	17:03	31	0.929	A BB	14831.	20.000	NG	1.20
37	152	1072	17:52	31	0.974	A BB	38323.	20.000	NG	1.20
38	163	1065	17:45	31	0.967	A BB	29066.	20.000	NG	1.20
39	165	1079	17:59	31	0.980	A BB	6786.	20.000	NG	1.20
40	153	1107	18:27	31	1.005	A BB	24709.	20.000	NG.	1.20
41	138	1103	18:23	31	1.002	A BB	7811.	20.000	NG	1.20
42	184	1122	18:42	31	1.019	A BB	3002.	20.000	NG	1.20
43	168	1138	18:58	31	1.034	A BB	35367.	20.000	NG	1.20
44	109	1137	18:57	31	1.033	A BB	5040.	20.000	NG.	1.20
45	165	1152	19:12	31	1.046	A BB	9508.	20.000	NG.	1.20
46	166	1204	20:04	31	1.094	A BB	28178.	20.000	NG	1.20
47	204	1207	20:07	31	1.096	A BB	14853.	20.000	NG	1.20
48	149	1201	20:01	31	1.091	A BB	34072.	20.000	NG	1.20
49	138	1222	20:22	31	1.110	A BB	6616.	20.000	NG	1.20
50	198	1228	20:28	31	1.115	A BB	4797.	20.000	NG	1.20

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:38	1.00	0.947	1.00	20.00	20.00	1.335	1.335	1.00
3	8:21	1.00	0.916	1.00	20.00	20.00	1.916	1.916	1.00
4	8:34	1.00	0.940	1.00	20.00	20.00	1.735	1.735	1.00
5	9:00	1.00	0.987	1.00	20.00	20.00	1.503	1.503	1.00
6	9:09	1.00	1.004	1.00	20.00	20.00	1.589	1.589	1.00
7	9:40	1.00	1.060	1.00	20.00	20.00	1.486	1.486	1.00
8	9:35	1.00	1.051	1.00	20.00	20.00	0.912	0.912	1.00
9	10:01	1.00	1.099	1.00	20.00	20.00	4.113	4.113	1.00
10	9:56	1.00	1.090	1.00	20.00	20.00	1.383	1.383	1.00
11	10:29	1.00	1.150	1.00	20.00	20.00	0.954	0.954	1.00
12	10:21	1.00	1.135	1.00	20.00	20.00	1.414	1.414	1.00
13	10:25	1.00	1.143	1.00	20.00	20.00	1.896	1.896	1.00
14	6:05	1.00	0.667	1.00	20.00	20.00	1.191	1.191	1.00
15	8:19	1.00	0.912	1.00	20.00	20.00	1.700	1.700	1.00
16	12:47	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:50	1.00	0.847	1.00	20.00	20.00	0.830	0.830	1.00
18	11:29	1.00	0.898	1.00	20.00	20.00	1.361	1.361	1.00
19	11:45	1.00	0.919	1.00	20.00	20.00	0.243	0.243	1.00
20	11:53	1.00	0.930	1.00	20.00	20.00	0.572	0.572	1.00
21	12:13	1.00	0.956	1.00	20.00	20.00	0.749	0.749	1.00
22	12:25	1.00	0.971	1.00	20.00	20.00	0.397	0.397	1.00
23	12:40	1.00	0.991	1.00	20.00	20.00	0.451	0.451	1.00
24	12:51	1.00	1.005	1.00	20.00	20.00	1.378	1.378	1.00
25	12:11	1.00	0.953	1.00	20.00	20.00	0.212	0.212	1.00
26	13:09	1.00	1.029	1.00	20.00	20.00	0.566	0.566	1.00
27	13:23	1.00	1.047	1.00	20.00	20.00	0.312	0.312	1.00
28	14:40	1.00	1.147	1.00	20.00	20.00	0.544	0.544	1.00
29	14:59	1.00	1.172	1.00	20.00	20.00	0.862	0.862	1.00
30	10:46	1.00	0.842	1.00	20.00	20.00	0.754	0.754	1.00
31	18:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:41	1.00	0.855	1.00	20.00	20.00	0.434	0.434	1.00
33	15:59	1.00	0.871	1.00	20.00	20.00	0.410	0.410	1.00
34	16:06	1.00	0.877	1.00	20.00	20.00	0.448	0.448	1.00
35	16:31	1.00	0.900	1.00	20.00	20.00	1.281	1.281	1.00
36	17:03	1.00	0.929	1.00	20.00	20.00	0.828	0.828	1.00
37	17:52	1.00	0.974	1.00	20.00	20.00	2.139	2.139	1.00
38	17:45	1.00	0.967	1.00	20.00	20.00	1.623	1.623	1.00
39	17:59	1.00	0.980	1.00	20.00	20.00	0.379	0.379	1.00
40	18:27	1.00	1.005	1.00	20.00	20.00	1.379	1.379	1.00
41	18:23	1.00	1.002	1.00	20.00	20.00	0.436	0.436	1.00
42	18:42	1.00	1.019	1.00	20.00	20.00	0.168	0.168	1.00
43	18:58	1.00	1.034	1.00	20.00	20.00	1.974	1.974	1.00
44	18:57	1.00	1.033	1.00	20.00	20.00	0.281	0.281	1.00
45	19:12	1.00	1.046	1.00	20.00	20.00	0.531	0.531	1.00
46	20:04	1.00	1.094	1.00	20.00	20.00	1.573	1.573	1.00
47	20:07	1.00	1.096	1.00	20.00	20.00	0.829	0.829	1.00
48	20:01	1.00	1.091	1.00	20.00	20.00	1.902	1.902	1.00
49	20:22	1.00	1.110	1.00	20.00	20.00	0.369	0.369	1.00
50	20:28	1.00	1.115	1.00	20.00	20.00	0.268	0.268	1.00

Quantitation Report File: T2573

ORIGINAL
(Red)

Data: T2573.TI
05/14/90 22:07:00
Sample: CLP,,,SSTD20,,,22662,B,IC20,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1233	20:33	31	1.120	A BB	20964.	20.000 NG	1.20
52	248	1301	21:41	31	1.182	A BB	8415.	20.000 NG	1.20
53	284	1325	22:05	31	1.203	A BB	10715.	20.000 NG	1.20
54	172	975	16:15	31	0.886	A BB	24745.	20.000 NG*B2	1.20
55	188	1385	23:05	55	1.000	A BV	74969.	40.000 NG/UL	2.41
56	266	1362	22:42	55	0.983	A BB	4767.	20.000 NG.	1.20
57	178	1390	23:10	55	1.004	A BV	45094.	20.000 NG	1.20
58	178	1398	23:18	55	1.009	A VB	45709.	20.000 NG	1.20
59	149	1516	25:16	55	1.095	A BB	66674.	20.000 NG	1.20
60	202	1622	27:02	55	1.171	A BB	45522.	20.000 NG	1.20
61	202	1666	27:46	63	0.875	A BB	45559.	20.000 NG.	1.20
62	330	1255	20:55	31	1.140	A BB	5396.	20.000 NG*A3	1.20
63	240	1903	31:43	63	1.000	A BB	53961.	40.000 NG/UL	2.41
64	149	1808	30:08	63	0.950	A BB	23617.	20.000 NG	1.20
65	228	1899	31:39	63	0.998	A BV	29309.	20.000 NG	1.20
66	228	1907	31:47	63	1.002	A VB	23237.	20.000 NG	1.20

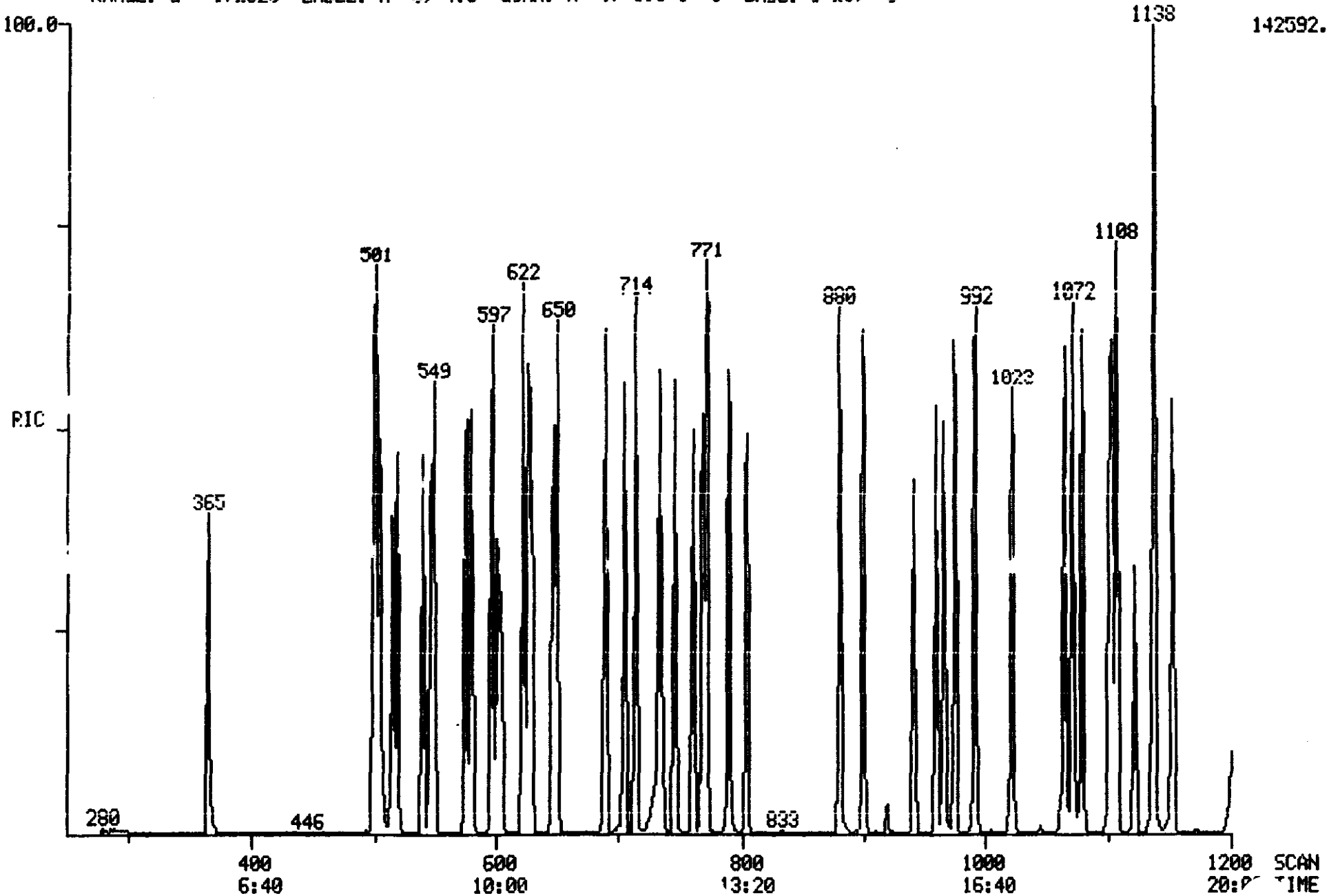
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	252	1901	31:41	63	0.999	A BB	9390.	20.000	NG	1.20
68	149	1918	31:58	63	1.008	A BB	31981.	20.000	NG	1.20
69	244	1702	28:22	63	0.894	A BB	29210.	20.000	NG*B3	1.20
70	264	2212	36:52	70	1.000	A BB	42822.	40.000	NG/UL	2.41
71	149	2030	33:50	70	0.918	A BB	48812.	20.000	NG	1.20
72	252	2113	35:13	70	0.955	A BV	26780.	20.000	NG	1.20
73	252	2119	35:19	70	0.958	A VB	24940.	20.000	NG	1.20
74	252	2195	36:35	70	0.992	A BB	23746.	20.000	NG	1.20
75	276	2572	42:52	70	1.163	A BV	19076.	20.000	NG	1.20
76	278	2583	43:03	70	1.168	A BB	17434.	20.000	NG	1.20
77	276	2681	44:41	70	1.212	A BB	19004.	20.000	NG	1.20

(Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:33	1.00	1.120	1.00	20.00	20.00	1.170	1.170	1.00
52	21:41	1.00	1.182	1.00	20.00	20.00	0.470	0.470	1.00
53	22:05	1.00	1.203	1.00	20.00	20.00	0.598	0.598	1.00
54	16:15	1.00	0.886	1.00	20.00	20.00	1.381	1.381	1.00
55	23:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:42	1.00	0.983	1.00	20.00	20.00	0.127	0.127	1.00
57	23:10	1.00	1.004	1.00	20.00	20.00	1.203	1.203	1.00
58	23:18	1.00	1.009	1.00	20.00	20.00	1.219	1.219	1.00
59	25:16	1.00	1.095	1.00	20.00	20.00	1.779	1.779	1.00
60	27:02	1.00	1.171	1.00	20.00	20.00	1.214	1.214	1.00
61	27:46	1.00	0.875	1.00	20.00	20.00	1.689	1.689	1.00
62	20:55	1.00	1.140	1.00	20.00	20.00	0.301	0.301	1.00
63	31:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	30:08	1.00	0.950	1.00	20.00	20.00	0.875	0.875	1.00
65	31:39	1.00	0.998	1.00	20.00	20.00	1.086	1.086	1.00
66	31:47	1.00	1.002	1.00	20.00	20.00	0.861	0.861	1.00
67	31:41	1.00	0.999	1.00	20.00	20.00	0.348	0.348	1.00
68	31:58	1.00	1.008	1.00	20.00	20.00	1.185	1.185	1.00
69	28:22	1.00	0.894	1.00	20.00	20.00	1.083	1.083	1.00
70	36:52	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:50	1.00	0.918	1.00	20.00	20.00	2.280	2.280	1.00
72	35:13	1.00	0.955	1.00	20.00	20.00	1.251	1.251	1.00
73	35:19	1.00	0.958	1.00	20.00	20.00	1.165	1.165	1.00
74	36:35	1.00	0.992	1.00	20.00	20.00	1.109	1.109	1.00
75	42:52	1.00	1.163	1.00	20.00	20.00	0.891	0.891	1.00
76	43:03	1.00	1.168	1.00	20.00	20.00	0.814	0.814	1.00
77	44:41	1.00	1.212	1.00	20.00	20.00	0.888	0.888	1.00

ORIGINAL (Red)

RIC DATA: T2569 #1 SCANS 250 TO 1200
05/14/90 17:42:00 CALI: T2569 #2
SAMPLE: CLP,,,SSTD50,,,22658,E,IC50,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2820 LABEL: N 0, 4.0 CUAN: A 0, 1.0 J 0 BASE: U 20, 3



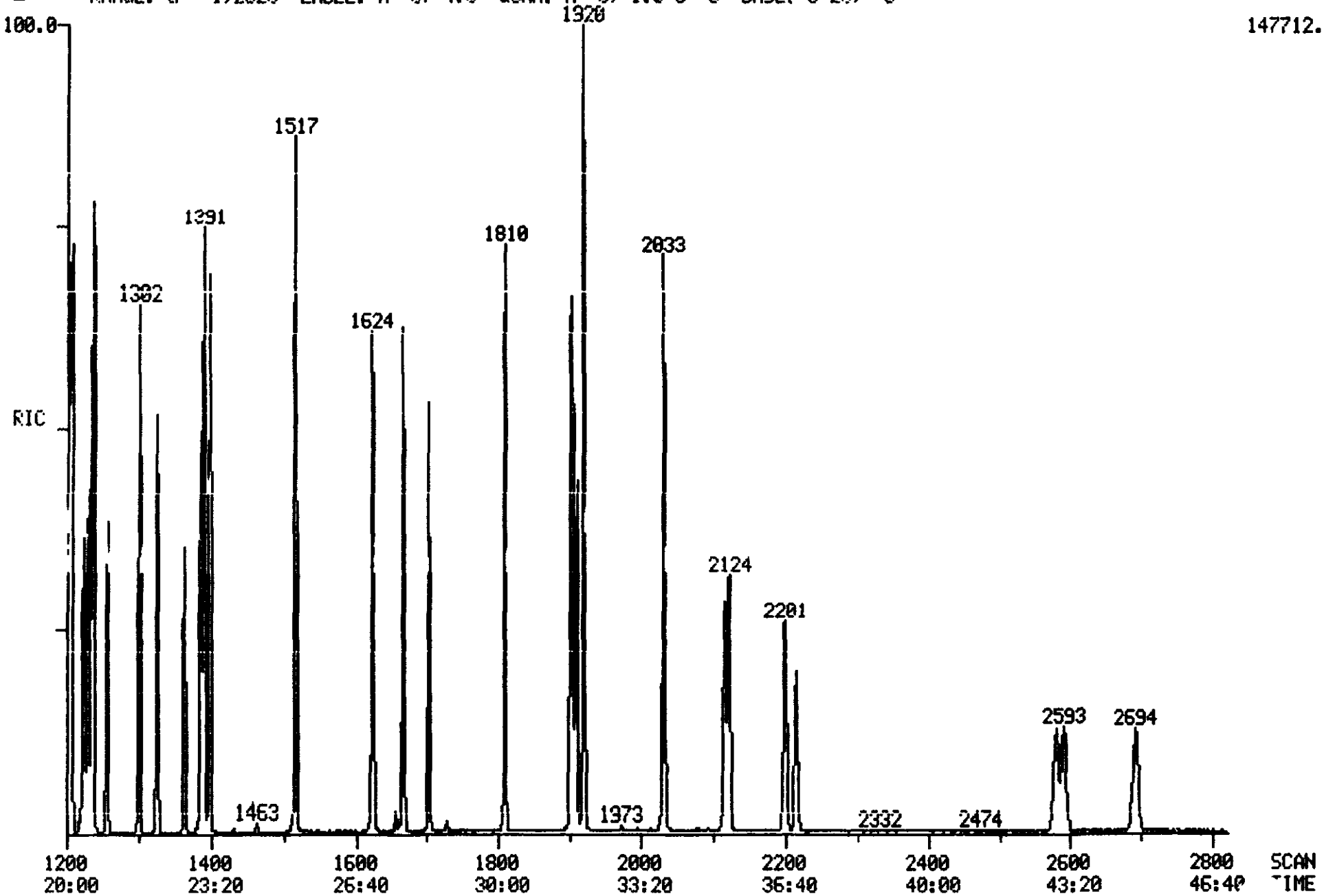
100367

ORIGINAL (Red)

RIC
05/14/90 17:42:00
SAMPLE: CLP,,,SSTD50,,,22658,B,IC50,,1UL,
CONDS.· INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2569 #1
CALI: T2569 #2

SCANS 1200 TO 2820



100368

Quantitation Report File: T2569

ORIGINAL
(Red)

Data: T2569.TI
05/14/90 17:42:00
Sample: CLP,,,SSTD50,,,22658,B,IC50,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: --

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

ORIGINAL
(Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	547	9:07	1	1.000	A BB	15621.	40.000	NG/UL	1.06
2	128	519	8:39	1	0.949	A BB	25165.	50.000	NG.	1.32
3	94	501	8:21	1	0.916	A BB	35694.	50.000	NG.	1.32
4	93	515	8:35	1	0.941	A VB	33251.	50.000	NG	1.32
5	146	540	9:00	1	0.987	A BB	28368.	50.000	NG	1.32
6	146	549	9:09	1	1.004	A BB	29990.	50.000	NG.	1.32
7	146	580	9:40	1	1.060	A BB	28248.	50.000	NG	1.32
8	108	575	9:35	1	1.051	A BB	18519.	50.000	NG	1.32
9	45	601	10:01	1	1.099	A BB	79012.	50.000	NG	1.32
10	108	597	9:57	1	1.091	A BB	27267.	50.000	NG	1.32
11	117	629	10:29	1	1.150	A BB	18654.	50.000	NG	1.32
12	108	622	10:22	1	1.137	A BB	29046.	50.000	NG	1.32
13	70	626	10:26	1	1.144	A BB	37511.	50.000	NG.	1.32
14	112	365	6:05	1	0.667	A BB	20548.	50.000	NG*A1	1.32
15	99	499	8:19	1	0.912	A BB	31626.	50.000	NG*A2	1.32
16	136	768	12:48	16	1.000	A BB	52080.	40.000	NG/UL	1.06
17	77	650	10:50	16	0.846	A BB	53433.	50.000	NG	1.32
18	82	689	11:29	16	0.897	A BB	90702.	50.000	NG	1.32
19	139	705	11:45	16	0.918	A BB	16679.	50.000	NG	1.32
20	107	714	11:54	16	0.930	A BB	37663.	50.000	NG	1.32
21	93	734	12:14	16	0.956	A BB	51224.	50.000	NG	1.32
22	162	746	12:26	16	0.971	A BB	24762.	50.000	NG	1.32
23	180	760	12:40	16	0.990	A BB	26359.	50.000	NG.	1.32
24	128	771	12:51	16	1.004	A BB	87935.	50.000	NG	1.32
25	122	736	12:16	16	0.958	A BB	13954.	50.000	NG	1.32
26	127	789	13:09	16	1.027	A BB	39132.	50.000	NG	1.32
27	225	803	13:23	16	1.046	A BB	17332.	50.000	NG	1.32
28	107	880	14:40	16	1.146	A BB	36793.	50.000	NG.	1.32
29	142	899	14:59	16	1.171	A BB	54639.	50.000	NG	1.32
30	82	647	10:47	16	0.842	A BB	49713.	50.000	NG*B1	1.32
31	164	1102	18:22	31	1.000	A BB	37455.	40.000	NG/UL	1.06
32	237	941	15:41	31	0.854	A BB	20609.	50.000	NG	1.32
33	196	960	16:00	31	0.871	A BV	18582.	50.000	NG	1.32
34	196	966	16:06	31	0.877	A VB	19169.	50.000	NG	1.32
35	162	992	16:32	31	0.900	A BB	56832.	50.000	NG	1.32
36	65	1023	17:03	31	0.928	A BB	42308.	50.000	NG	1.32
37	152	1072	17:52	31	0.973	A BB	94880.	50.000	NG	1.32
38	163	1066	17:46	31	0.967	A BB	71668.	50.000	NG	1.32
39	165	1080	18:00	31	0.980	A BB	18134.	50.000	NG	1.32
40	153	1108	18:28	31	1.005	A BB	57936.	50.000	NG.	1.32
41	138	1104	18:24	31	1.002	A BB	21297.	50.000	NG	1.32
42	184	1123	18:43	31	1.019	A BB	10715.	50.000	NG	1.32
43	168	1138	18:58	31	1.033	A BB	82874.	50.000	NG	1.32
44	109	1138	18:58	31	1.033	A BB	13742.	50.000	NG.	1.32
45	165	1153	19:13	31	1.046	A BB	24810.	50.000	NG.	1.32
46	166	1205	20:05	31	1.093	A BB	65220.	50.000	NG	1.32
47	204	1208	20:08	31	1.096	A BB	34449.	50.000	NG	1.32
48	149	1202	20:02	31	1.091	A BB	83379.	50.000	NG	1.32
49	138	1224	20:24	31	1.111	A BB	19051.	50.000	NG	1.32
50	198	1229	20:29	31	1.115	A BB	14622.	50.000	NG	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	9:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:39	1.00	0.949	1.00	50.00	50.00	1.289	1.289	1.00
3	8:21	1.00	0.916	1.00	50.00	50.00	1.828	1.828	1.00
4	8:35	1.00	0.941	1.00	50.00	50.00	1.703	1.703	1.00
5	9:00	1.00	0.987	1.00	50.00	50.00	1.453	1.453	1.00
6	9:09	1.00	1.004	1.00	50.00	50.00	1.536	1.536	1.00
7	9:40	1.00	1.060	1.00	50.00	50.00	1.447	1.447	1.00
8	9:35	1.00	1.051	1.00	50.00	50.00	0.948	0.948	1.00
9	10:01	1.00	1.099	1.00	50.00	50.00	4.046	4.046	1.00
10	9:57	1.00	1.091	1.00	50.00	50.00	1.396	1.396	1.00
11	10:29	1.00	1.150	1.00	50.00	50.00	0.955	0.955	1.00
12	10:22	1.00	1.137	1.00	50.00	50.00	1.488	1.488	1.00
13	10:26	1.00	1.144	1.00	50.00	50.00	1.921	1.921	1.00
14	6:05	1.00	0.667	1.00	50.00	50.00	1.052	1.052	1.00
15	8:19	1.00	0.912	1.00	50.00	50.00	1.620	1.620	1.00
16	12:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:50	1.00	0.846	1.00	50.00	50.00	0.821	0.821	1.00
18	11:29	1.00	0.897	1.00	50.00	50.00	1.393	1.393	1.00
19	11:45	1.00	0.918	1.00	50.00	50.00	0.256	0.256	1.00
20	11:54	1.00	0.930	1.00	50.00	50.00	0.579	0.579	1.00
21	12:14	1.00	0.956	1.00	50.00	50.00	0.787	0.787	1.00
22	12:26	1.00	0.971	1.00	50.00	50.00	0.380	0.380	1.00
23	12:40	1.00	0.990	1.00	50.00	50.00	0.405	0.405	1.00
24	12:51	1.00	1.004	1.00	50.00	50.00	1.351	1.351	1.00
25	12:16	1.00	0.958	1.00	50.00	50.00	0.214	0.214	1.00
26	13:09	1.00	1.027	1.00	50.00	50.00	0.601	0.601	1.00
27	13:23	1.00	1.046	1.00	50.00	50.00	0.266	0.266	1.00
28	14:40	1.00	1.146	1.00	50.00	50.00	0.565	0.565	1.00
29	14:59	1.00	1.171	1.00	50.00	50.00	0.839	0.839	1.00
30	10:47	1.00	0.842	1.00	50.00	50.00	0.764	0.764	1.00
31	18:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:41	1.00	0.854	1.00	50.00	50.00	0.440	0.440	1.00
33	16:00	1.00	0.871	1.00	50.00	50.00	0.397	0.397	1.00
34	16:06	1.00	0.877	1.00	50.00	50.00	0.409	0.409	1.00
35	16:32	1.00	0.900	1.00	50.00	50.00	1.214	1.214	1.00
36	17:03	1.00	0.928	1.00	50.00	50.00	0.904	0.904	1.00
37	17:52	1.00	0.973	1.00	50.00	50.00	2.027	2.027	1.00
38	17:46	1.00	0.967	1.00	50.00	50.00	1.531	1.531	1.00
39	18:00	1.00	0.980	1.00	50.00	50.00	0.387	0.387	1.00
40	18:28	1.00	1.005	1.00	50.00	50.00	1.237	1.237	1.00
41	18:24	1.00	1.002	1.00	50.00	50.00	0.455	0.455	1.00
42	18:43	1.00	1.019	1.00	50.00	50.00	0.229	0.229	1.00
43	18:58	1.00	1.033	1.00	50.00	50.00	1.770	1.770	1.00
44	18:58	1.00	1.033	1.00	50.00	50.00	0.294	0.294	1.00
45	19:13	1.00	1.046	1.00	50.00	50.00	0.530	0.530	1.00
46	20:05	1.00	1.093	1.00	50.00	50.00	1.393	1.393	1.00
47	20:08	1.00	1.096	1.00	50.00	50.00	0.736	0.736	1.00
48	20:02	1.00	1.091	1.00	50.00	50.00	1.781	1.781	1.00
49	20:24	1.00	1.111	1.00	50.00	50.00	0.407	0.407	1.00
50	20:29	1.00	1.115	1.00	50.00	50.00	0.312	0.312	1.00

ORIGINAL (Red)

Quantitation Report File: T2569

Data: T2569.TI
05/14/90 17:42:00
Sample: CLP,,,SSTD50,,,22658,B,IC50,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: --

ORIGINAL
(Red)

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1234	20:34	31	1.120	A BB	49488.	50.000 NG	1.32
52	248	1301	21:41	31	1.181	A BB	21260.	50.000 NG	1.32
53	284	1326	22:06	31	1.203	A BB	25148.	50.000 NG	1.32
54	172	975	16:15	31	0.885	A BB	59968.	50.000 NG*B2	1.32
55	188	1386	23:06	55	1.000	A BB	75538.	40.000 NG/UL	1.04
56	266	1363	22:43	55	0.983	A BB	13999.	50.000 NG.	1.32
57	178	1391	23:11	55	1.004	A BV	105164.	50.000 NG	1.32
58	178	1399	23:19	55	1.009	A VB	103153.	50.000 NG	1.32
59	149	1517	25:17	55	1.095	A BV	157368.	50.000 NG	1.32
60	202	1624	27:04	55	1.172	A BB	104709.	50.000 NG	1.32
61	202	1668	27:48	63	0.876	A BB	102146.	50.000 NG.	1.32
62	330	1256	20:56	31	1.140	A BB	12678.	50.000 NG*A3	1.32
63	240	1905	31:45	63	1.000	A BB	56496.	40.000 NG/UL	1.06
64	149	1810	30:10	63	0.950	A BB	59766.	50.000 NG	1.32
65	228	1902	31:42	63	0.998	A BV	74370.	50.000 NG	1.32
66	228	1910	31:50	63	1.003	A VB	56857.	50.000 NG	1.32

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	Tot
67	252	1903	31:43	63	0.999	A BB	20611.	50.000 NG	1.32
68	149	1920	32:00	63	1.008	A BB	81602.	50.000 NG	1.32
69	244	1703	28:23	63	0.894	A BB	66579.	50.000 NG*B3	1.32
70	264	2216	36:56	70	1.000	A BB	45334.	40.000 NG/UL	1.06
71	149	2033	33:53	70	0.917	A BB	132179.	50.000 NG	1.32
72	252	2117	35:17	70	0.955	A BV	68027.	50.000 NG	1.32
73	252	2123	35:23	70	0.958	A VB	62799.	50.000 NG	1.32
74	252	2200	36:40	70	0.993	A BB	61879.	50.000 NG	1.32
75	276	2581	43:01	70	1.165	A BV	51958.	50.000 NG	1.32
76	278	2593	43:13	70	1.170	A BB	46607.	50.000 NG	1.32
77	276	2693	44:53	70	1.215	A BB	52321.	50.000 NG	1.32

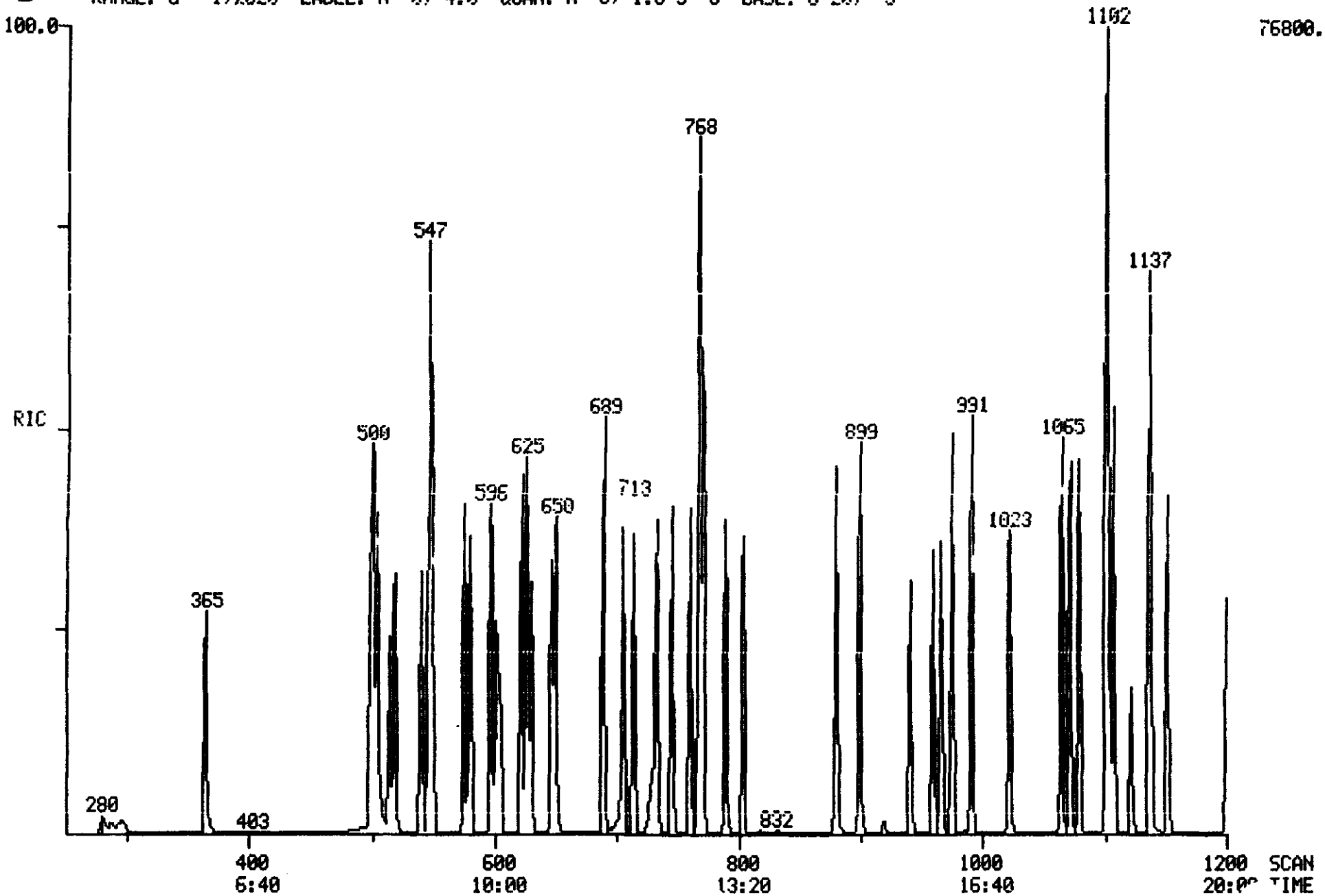
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:34	1.00	1.120	1.00	50.00	50.00	1.057	1.057	1.00
52	21:41	1.00	1.181	1.00	50.00	50.00	0.454	0.454	1.00
53	22:06	1.00	1.203	1.00	50.00	50.00	0.537	0.537	1.00
54	16:15	1.00	0.885	1.00	50.00	50.00	1.281	1.281	1.00
55	23:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:43	1.00	0.983	1.00	50.00	50.00	0.148	0.148	1.00
57	23:11	1.00	1.004	1.00	50.00	50.00	1.114	1.114	1.00
58	23:19	1.00	1.009	1.00	50.00	50.00	1.092	1.092	1.00
59	25:17	1.00	1.095	1.00	50.00	50.00	1.667	1.667	1.00
60	27:04	1.00	1.172	1.00	50.00	50.00	1.109	1.109	1.00
61	27:48	1.00	0.876	1.00	50.00	50.00	1.446	1.446	1.00
62	20:56	1.00	1.140	1.00	50.00	50.00	0.271	0.271	1.00
63	31:45	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	30:10	1.00	0.950	1.00	50.00	50.00	0.846	0.846	1.00
65	31:42	1.00	0.998	1.00	50.00	50.00	1.053	1.053	1.00
66	31:50	1.00	1.003	1.00	50.00	50.00	0.805	0.805	1.00
67	31:43	1.00	0.999	1.00	50.00	50.00	0.292	0.292	1.00
68	32:00	1.00	1.008	1.00	50.00	50.00	1.156	1.156	1.00
69	28:23	1.00	0.894	1.00	50.00	50.00	0.943	0.943	1.00
70	36:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:53	1.00	0.917	1.00	50.00	50.00	2.333	2.333	1.00
72	35:17	1.00	0.955	1.00	50.00	50.00	1.200	1.200	1.00
73	35:23	1.00	0.958	1.00	50.00	50.00	1.108	1.108	1.00
74	36:40	1.00	0.993	1.00	50.00	50.00	1.092	1.092	1.00
75	43:01	1.00	1.165	1.00	50.00	50.00	0.917	0.917	1.00
76	43:13	1.00	1.170	1.00	50.00	50.00	0.822	0.822	1.00
77	44:53	1.00	1.215	1.00	50.00	50.00	0.923	0.923	1.00

ORIGINAL (Red)

RIC
05/14/90 22:07:00
SAMPLE: CLP,,,SSTD2E,,,22662,B,IC20,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
RANGE: G 1,2820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2573 #2391
CALI: T2573 #2

SCANS 250 TO 1200

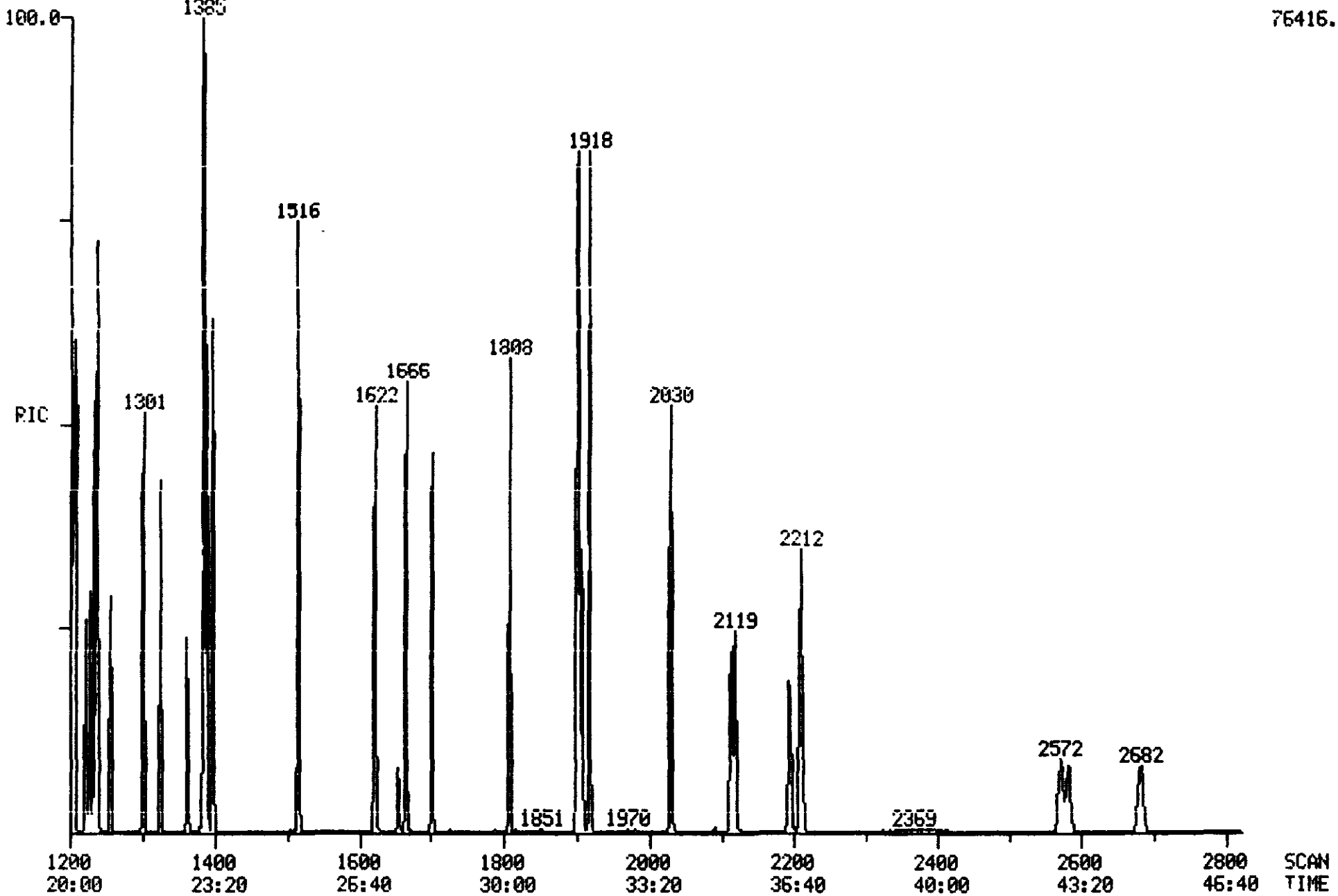


100374

RIC DATA: T2573 #2391 SCANS 1200 TO 2820
05/14/90 22:07:00 CALI: T2573 #2
SAMPLE: CLP,,,SSTD20,,,22662,B,IC20,,1UL,
CONDS.: INST T COLUMN=PESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: G 1,2820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

ORIGINAL (Red)

100375



Quantitation Report File: T2572

Data: T2572.TI
05/14/90 21:13:00
Sample: CLP,,,SSTD80,,,22661,B,ICB0,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: ---

ORIGINAL
(Red)

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

ORIGINAL
(Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	547	9:07	1	1.000	A BB	16068.	40.000	NG/UL	0.68
2	128	519	8:39	1	0.949	A BB	41052.	80.000	NG.	1.35
3	94	502	8:22	1	0.918	A BB	56825.	80.000	NG.	1.35
4	93	515	8:35	1	0.941	A VB	51311.	80.000	NG	1.35
5	146	541	9:01	1	0.989	A BB	46160.	80.000	NG	1.35
6	146	550	9:10	1	1.005	A BB	48323.	80.000	NG.	1.35
7	146	580	9:40	1	1.060	A BB	46291.	80.000	NG	1.35
8	108	576	9:36	1	1.053	A BB	30427.	80.000	NG	1.35
9	45	602	10:02	1	1.101	A BB	125990.	80.000	NG	1.35
10	108	597	9:57	1	1.091	A BB	43318.	80.000	NG	1.35
11	117	629	10:29	1	1.150	A BB	28665.	80.000	NG	1.35
12	108	623	10:23	1	1.139	A BB	45373.	80.000	NG	1.35
13	70	627	10:27	1	1.146	A BB	58607.	80.000	NG.	1.35
14	112	365	6:05	1	0.667	A BB	35530.	80.000	NG*A1	1.35
15	99	500	8:20	1	0.914	A BB	51722.	80.000	NG*A2	1.35
16	136	768	12:48	16	1.000	A BB	54192.	40.000	NG/UL	0.68
17	77	651	10:51	16	0.848	A BB	84682.	80.000	NG	1.35
18	82	690	11:30	16	0.898	A BB	143669.	80.000	NG	1.35
19	139	705	11:45	16	0.918	A BB	27248.	80.000	NG	1.35
20	107	714	11:54	16	0.930	A BB	61596.	80.000	NG	1.35
21	93	734	12:14	16	0.956	A BB	79832.	80.000	NG	1.35
22	162	746	12:26	16	0.971	A BB	42297.	80.000	NG	1.35
23	180	760	12:40	16	0.990	A BB	44939.	80.000	NG.	1.35
24	128	771	12:51	16	1.004	A BB	140750.	80.000	NG	1.35
25	122	741	12:21	16	0.965	A BB	23365.	80.000	NG	1.35
26	127	789	13:09	16	1.027	A BB	65174.	80.000	NG	1.35
27	225	803	13:23	16	1.046	A BB	30483.	80.000	NG	1.35
28	107	880	14:40	16	1.146	A BB	60171.	80.000	NG.	1.35
29	142	899	14:59	16	1.171	A BB	89824.	80.000	NG	1.35
30	82	647	10:47	16	0.842	A BB	79530.	80.000	NG*B1	1.35
31	164	1101	18:21	31	1.000	A BB	40078.	40.000	NG/UL	0.68
32	237	941	15:41	31	0.855	A BB	35977.	80.000	NG	1.35
33	196	960	16:00	31	0.872	A BV	32226.	80.000	NG	1.35
34	196	966	16:06	31	0.877	A VB	33216.	80.000	NG	1.35
35	162	992	16:32	31	0.901	A BB	96437.	80.000	NG	1.35
36	65	1024	17:04	31	0.930	A BB	71191.	80.000	NG	1.35
37	152	1072	17:52	31	0.974	A BB	159468.	80.000	NG	1.35
38	163	1066	17:46	31	0.968	A BB	122438.	80.000	NG	1.35
39	165	1080	18:00	31	0.981	A BB	30950.	80.000	NG	1.35
40	153	1108	18:28	31	1.006	A BB	97302.	80.000	NG.	1.35
41	138	1105	18:25	31	1.004	A BB	36450.	80.000	NG	1.35
42	184	1123	18:43	31	1.020	A BB	19387.	80.000	NG	1.35
43	168	1138	18:58	31	1.034	A BB	138211.	80.000	NG	1.35
44	109	1138	18:58	31	1.034	A BB	27942.	80.000	NG.	1.35
45	165	1153	19:13	31	1.047	A BB	42583.	80.000	NG.	1.35
46	166	1205	20:05	31	1.094	A BB	109827.	80.000	NG	1.35
47	204	1208	20:08	31	1.097	A BB	56311.	80.000	NG	1.35
48	149	1203	20:03	31	1.093	A BB	145422.	80.000	NG	1.35
49	138	1225	20:25	31	1.113	A BB	34932.	80.000	NG	1.35
50	198	1230	20:30	31	1.117	A BB	25445.	80.000	NG	1.35

ORIGINAL

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	RRF(L)
1	9:07	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:39	1.00	0.949	1.00	80.00	80.00	1.277	1.277	1.00
3	8:22	1.00	0.918	1.00	80.00	80.00	1.768	1.768	1.00
4	8:35	1.00	0.941	1.00	80.00	80.00	1.597	1.597	1.00
5	9:01	1.00	0.989	1.00	80.00	80.00	1.436	1.436	1.00
6	9:10	1.00	1.005	1.00	80.00	80.00	1.504	1.504	1.00
7	9:40	1.00	1.060	1.00	80.00	80.00	1.440	1.440	1.00
8	9:36	1.00	1.053	1.00	80.00	80.00	0.947	0.947	1.00
9	10:02	1.00	1.101	1.00	80.00	80.00	3.921	3.921	1.00
10	9:57	1.00	1.091	1.00	80.00	80.00	1.348	1.348	1.00
11	10:29	1.00	1.150	1.00	80.00	80.00	0.892	0.892	1.00
12	10:23	1.00	1.139	1.00	80.00	80.00	1.412	1.412	1.00
13	10:27	1.00	1.146	1.00	80.00	80.00	1.824	1.824	1.00
14	6:05	1.00	0.667	1.00	80.00	80.00	1.106	1.106	1.00
15	8:20	1.00	0.914	1.00	80.00	80.00	1.609	1.609	1.00
16	12:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:51	1.00	0.848	1.00	80.00	80.00	0.781	0.781	1.00
18	11:30	1.00	0.898	1.00	80.00	80.00	1.326	1.326	1.00
19	11:45	1.00	0.918	1.00	80.00	80.00	0.251	0.251	1.00
20	11:54	1.00	0.930	1.00	80.00	80.00	0.568	0.568	1.00
21	12:14	1.00	0.956	1.00	80.00	80.00	0.737	0.737	1.00
22	12:26	1.00	0.971	1.00	80.00	80.00	0.390	0.390	1.00
23	12:40	1.00	0.990	1.00	80.00	80.00	0.415	0.415	1.00
24	12:51	1.00	1.004	1.00	80.00	80.00	1.299	1.299	1.00
25	12:21	1.00	0.965	1.00	80.00	80.00	0.216	0.216	1.00
26	13:09	1.00	1.027	1.00	80.00	80.00	0.601	0.601	1.00
27	13:23	1.00	1.046	1.00	80.00	80.00	0.281	0.281	1.00
28	14:40	1.00	1.146	1.00	80.00	80.00	0.555	0.555	1.00
29	14:59	1.00	1.171	1.00	80.00	80.00	0.829	0.829	1.00
30	10:47	1.00	0.842	1.00	80.00	80.00	0.734	0.734	1.00
31	18:21	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:41	1.00	0.855	1.00	80.00	80.00	0.449	0.449	1.00
33	16:00	1.00	0.872	1.00	80.00	80.00	0.402	0.402	1.00
34	16:06	1.00	0.877	1.00	80.00	80.00	0.414	0.414	1.00
35	16:32	1.00	0.901	1.00	80.00	80.00	1.203	1.203	1.00
36	17:04	1.00	0.930	1.00	80.00	80.00	0.888	0.888	1.00
37	17:52	1.00	0.974	1.00	80.00	80.00	1.989	1.989	1.00
38	17:46	1.00	0.968	1.00	80.00	80.00	1.527	1.527	1.00
39	18:00	1.00	0.981	1.00	80.00	80.00	0.386	0.386	1.00
40	18:28	1.00	1.006	1.00	80.00	80.00	1.214	1.214	1.00
41	18:25	1.00	1.004	1.00	80.00	80.00	0.455	0.455	1.00
42	18:43	1.00	1.020	1.00	80.00	80.00	0.242	0.242	1.00
43	18:58	1.00	1.034	1.00	80.00	80.00	1.724	1.724	1.00
44	18:58	1.00	1.034	1.00	80.00	80.00	0.349	0.349	1.00
45	19:13	1.00	1.047	1.00	80.00	80.00	0.531	0.531	1.00
46	20:05	1.00	1.094	1.00	80.00	80.00	1.370	1.370	1.00
47	20:08	1.00	1.097	1.00	80.00	80.00	0.703	0.703	1.00
48	20:03	1.00	1.093	1.00	80.00	80.00	1.814	1.814	1.00
49	20:25	1.00	1.113	1.00	80.00	80.00	0.436	0 436	1.00
50	20:30	1.00	1.117	1.00	80.00	80.00	0.317	0.317	1.00

Quantitation Report File: T2572

ORIGINAL
(Red)

Data: T2572.TI
05/14/90 21:13:00
Sample: CLP,,,SSTD80,,,22661,B,IC80,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1235	20:35	31	1.122	A BB	82270.	80.000 NG	1.35
52	248	1301	21:41	31	1.182	A BB	37698.	80.000 NG	1.35
53	284	1326	22:06	31	1.204	A BB	44324.	80.000 NG	1.35
54	172	975	16:15	31	0.886	A BB	100749.	80.000 NG*B2	1.35
55	188	1386	23:06	55	1.000	A BB	80782.	40.000 NG/UL	0.68
56	266	1363	22:43	55	0.983	A BB	25637.	80.000 NG.	1.35
57	178	1391	23:11	55	1.004	A BV	171019.	80.000 NG	1.35
58	178	1399	23:19	55	1.009	A VB	162544.	80.000 NG	1.35
59	149	1516	25:16	55	1.094	A BV	266470.	80.000 NG	1.35
60	202	1623	27:03	55	1.171	A BB	173889.	80.000 NG	1.35
61	202	1667	27:47	63	0.876	A BB	169269.	80.000 NG.	1.35
62	330	1256	20:56	31	1.141	A BB	24816.	80.000 NG*A3	1.35
63	240	1904	31:44	63	1.000	A BB	64051.	40.000 NG/UL	0.68
64	149	1809	30:09	63	0.950	A BB	104320.	80.000 NG	1.35
65	228	1901	31:41	63	0.998	A BV	132512.	80.000 NG	1.35
66	228	1909	31:49	63	1.003	A VB	91112.	80.000 NG	1.35

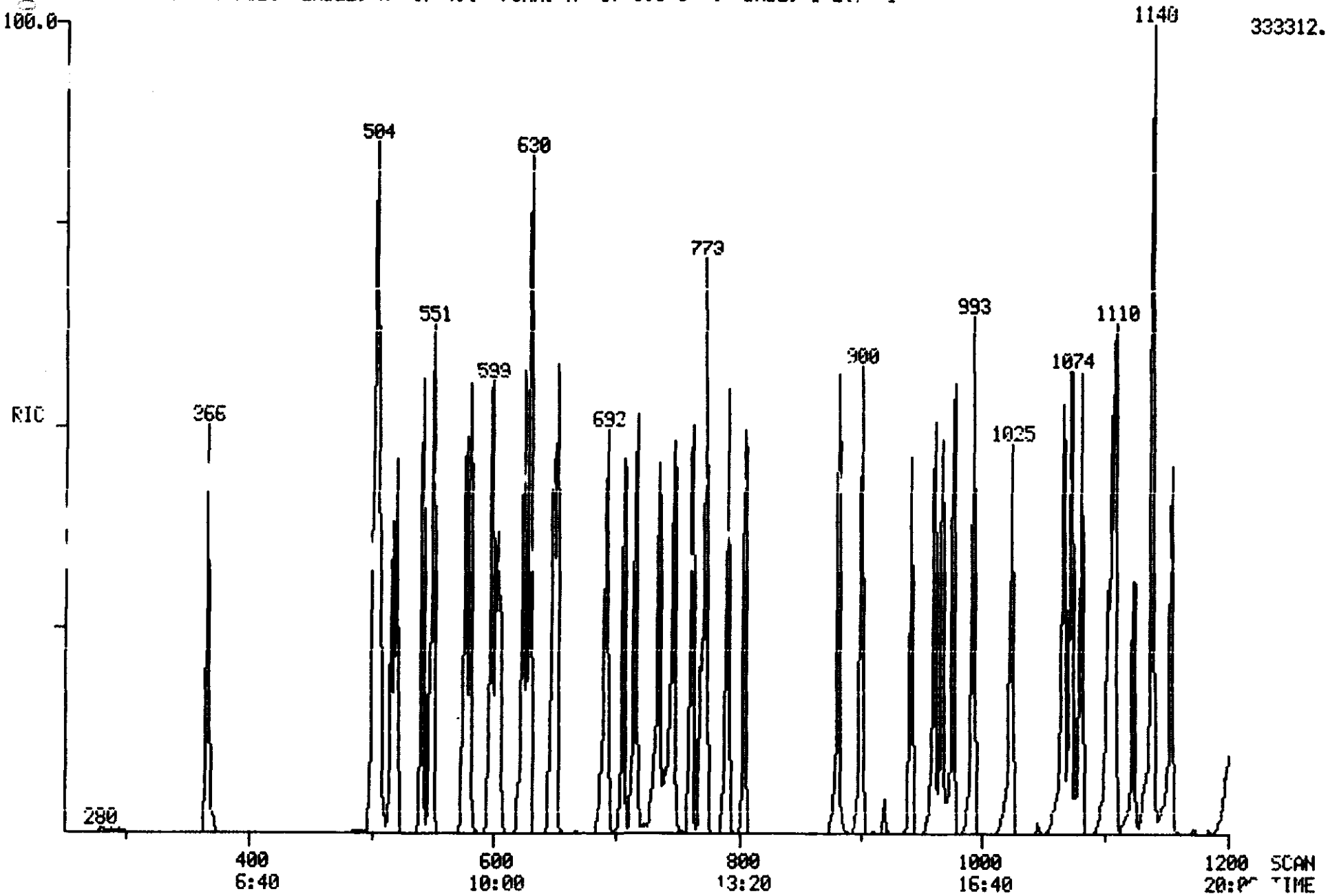
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	252	1902	31:42	63	0.999	A BB	40743.	80.000 NG	1.35
68	149	1919	31:59	63	1.008	A BB	140652.	80.000 NG	1.35
69	244	1703	28:23	63	0.894	A BB	115309.	80.000 NG*B3	1.35
70	264	2213	36:53	70	1.000	A BB	51458.	40.000 NG/UL	0.68
71	149	2031	33:51	70	0.918	A BB	226991.	80.000 NG	1.35
72	252	2116	35:16	70	0.956	A BV	124381.	80.000 NG	1.35
73	252	2122	35:22	70	0.959	A VB	96333.	80.000 NG	1.35
74	252	2199	36:39	70	0.994	A BB	108866.	80.000 NG	1.35
75	276	2579	42:59	70	1.165	A BV	93014.	80.000 NG	1.35
76	278	2589	43:09	70	1.170	A BB	84260.	80.000 NG	1.35
77	276	2691	44:51	70	1.216	A BB	91596.	80.000 NG	1.35

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:35	1.00	1.122	1.00	80.00	80.00	1.026	1.026	1.00
52	21:41	1.00	1.182	1.00	80.00	80.00	0.470	0.470	1.00
53	22:06	1.00	1.204	1.00	80.00	80.00	0.553	0.553	1.00
54	16:15	1.00	0.886	1.00	80.00	80.00	1.257	1.257	1.00
55	23:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:43	1.00	0.983	1.00	80.00	80.00	0.159	0.159	1.00
57	23:11	1.00	1.004	1.00	80.00	80.00	1.059	1.059	1.00
58	23:19	1.00	1.009	1.00	80.00	80.00	1.006	1.006	1.00
59	25:16	1.00	1.094	1.00	80.00	80.00	1.649	1.649	1.00
60	27:03	1.00	1.171	1.00	80.00	80.00	1.076	1.076	1.00
61	27:47	1.00	0.876	1.00	80.00	80.00	1.321	1.321	1.00
62	20:56	1.00	1.141	1.00	80.00	80.00	0.310	0.310	1.00
63	31:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	30:09	1.00	0.950	1.00	80.00	80.00	0.814	0.814	1.00
65	31:41	1.00	0.998	1.00	80.00	80.00	1.034	1.034	1.00
66	31:49	1.00	1.003	1.00	80.00	80.00	0.711	0.711	1.00
67	31:42	1.00	0.999	1.00	80.00	80.00	0.318	0.318	1.00
68	31:59	1.00	1.008	1.00	80.00	80.00	1.098	1.098	1.00
69	28:23	1.00	0.894	1.00	80.00	80.00	0.900	0.900	1.00
70	36:53	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:51	1.00	0.918	1.00	80.00	80.00	2.206	2.206	1.00
72	35:16	1.00	0.956	1.00	80.00	80.00	1.209	1.209	1.00
73	35:22	1.00	0.959	1.00	80.00	80.00	0.936	0.936	1.00
74	36:39	1.00	0.994	1.00	80.00	80.00	1.058	1.058	1.00
75	42:59	1.00	1.165	1.00	80.00	80.00	0.904	0.904	1.00
76	43:09	1.00	1.170	1.00	80.00	80.00	0.819	0.819	1.00
77	44:51	1.00	1.216	1.00	80.00	80.00	0.890	0.890	1.00

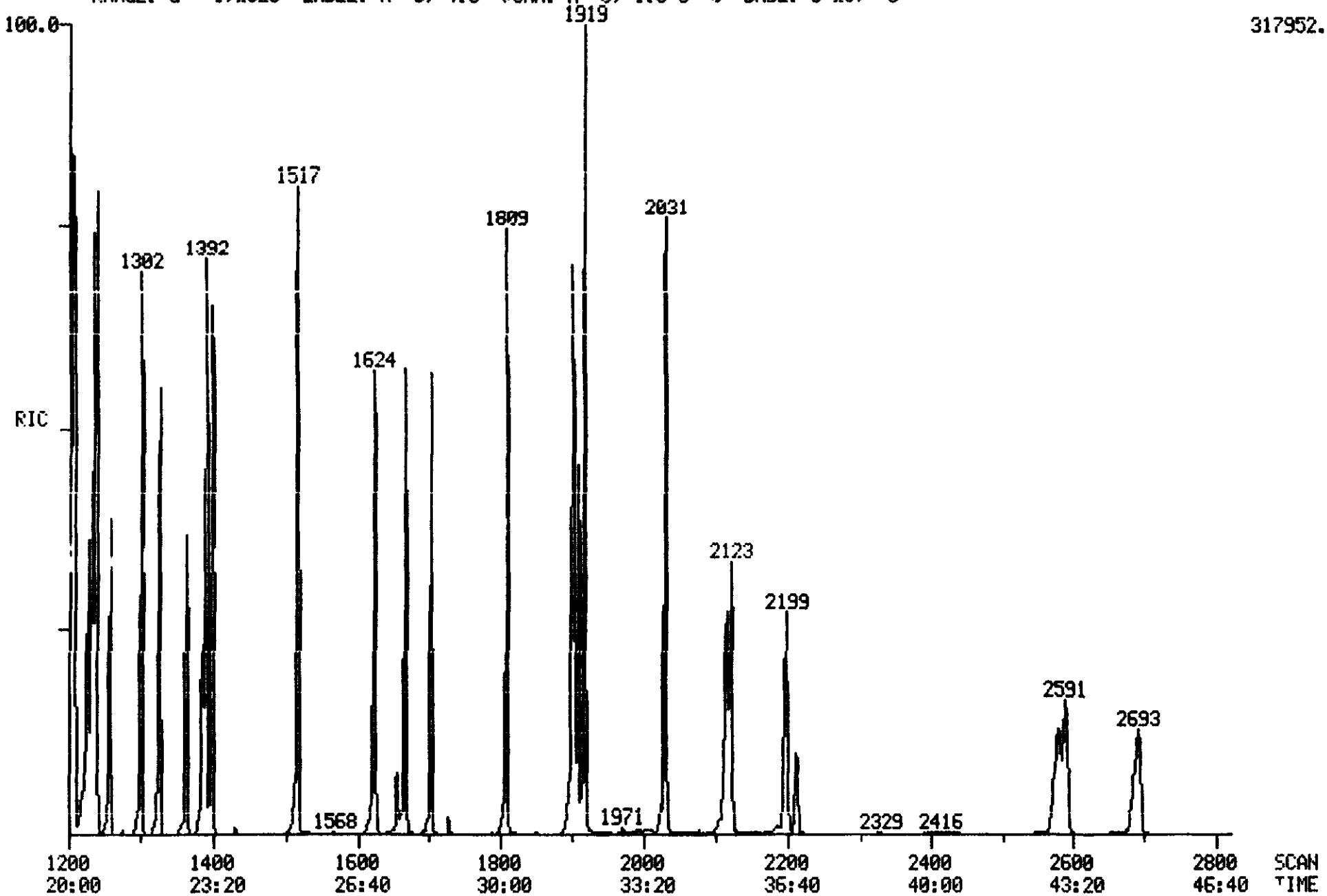
100381

RIC DATA: T2571 #1 SCANS 250 TO 1200
05/14/90 19:50:00 CALI: T2571 #2
SAMPLE: CLP,,,SSTD120,,,22660,B,IC120,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: G 1,2820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



ORIGINAL (Red)

RIC DATA: T2571 #1 SCANS 1200 TO 2820
05/14/90 19:50:00 CALI: T2571 #2
SAMPLE: CLP,,,SSTD120,,,22660,B,IC120,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302C@C/MIN
RANGE: G 1,2820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



100382

Quantitation Report File: T2571

ORIGINAL
(Red)

Data: T2571.TI
05/14/90 19:50:00
Sample: CLP,,,SSTD120,,,22660,B,IC120,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

ORIGINAL
(Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	548	9:08	1	1.000	A BB	17383.	40.000	NG/UL	0.16
2	128	520	8:40	1	0.949	A BB	63449.	120.000	NG.	1.37
3	94	504	8:24	1	0.920	A BB	96354.	120.000	NG.	1.37
4	93	517	8:37	1	0.943	A VB	81538.	120.000	NG	1.37
5	146	542	9:02	1	0.989	A BB	73469.	120.000	NG	1.37
6	146	551	9:11	1	1.005	A BB	76936.	120.000	NG.	1.37
7	146	581	9:41	1	1.060	A BB	71388.	120.000	NG	1.37
8	108	578	9:38	1	1.055	A BB	47802.	120.000	NG	1.37
9	45	603	10:03	1	1.100	A BB	193597.	120.000	NG	1.37
10	108	598	9:58	1	1.091	A BB	67373.	120.000	NG	1.37
11	117	630	10:30	1	1.150	A BB	42734.	120.000	NG	1.37
12	108	624	10:24	1	1.139	A BB	70923.	120.000	NG	1.37
13	70	629	10:29	1	1.148	A BB	92744.	120.000	NG.	1.37
14	112	366	6:06	1	0.668	A BB	60406.	120.000	NG*A1	1.37
15	99	502	8:22	1	0.916	A BB	83036.	120.000	NG*A2	1.37
16	136	769	12:49	16	1.000	A BB	55552.	40.000	NG/UL	0.16
17	77	652	10:52	16	0.848	A BB	126325.	120.000	NG	1.37
18	82	692	11:32	16	0.900	A BB	217390.	120.000	NG	1.37
19	139	706	11:46	16	0.918	A BB	41393.	120.000	NG	1.37
20	107	716	11:56	16	0.931	A BB	91263.	120.000	NG	1.37
21	93	735	12:15	16	0.956	A BB	121459.	120.000	NG	1.37
22	162	747	12:27	16	0.971	A BB	63349.	120.000	NG	1.37
23	180	761	12:41	16	0.990	A BB	66943.	120.000	NG.	1.37
24	128	773	12:53	16	1.005	A BB	210869.	120.000	NG	1.37
25	122	744	12:24	16	0.967	A BB	31434.	120.000	NG	1.37
26	127	791	13:11	16	1.029	A BB	96897.	120.000	NG	1.37
27	225	804	13:24	16	1.046	A BB	43399.	120.000	NG	1.37
28	107	881	14:41	16	1.146	A BB	91248.	120.000	NG.	1.37
29	142	900	15:00	16	1.170	A BB	130566.	120.000	NG	1.37
30	82	649	10:49	16	0.844	A BB	121065.	120.000	NG*B1	1.37
31	164	1102	18:22	31	1.000	A BB	39921.	40.000	NG/UL	0.16
32	237	942	15:42	31	0.855	A BB	53150.	120.000	NG	1.37
33	196	961	16:01	31	0.872	A BV	51235.	120.000	NG	1.37
34	196	967	16:07	31	0.877	A VB	47415.	120.000	NG	1.37
35	162	993	16:33	31	0.901	A BB	137962.	120.000	NG	1.37
36	65	1025	17:05	31	0.930	A BB	105581.	120.000	NG	1.37
37	152	1073	17:53	31	0.974	A BB	228235.	120.000	NG	1.37
38	163	1067	17:47	31	0.968	A BB	179144.	120.000	NG	1.37
39	165	1082	18:02	31	0.982	A VB	45401.	120.000	NG	1.37
40	153	1110	18:30	31	1.007	A BB	140845.	120.000	NG.	1.37
41	138	1106	18:26	31	1.004	A BB	53153.	120.000	NG	1.37
42	184	1124	18:44	31	1.020	A BB	29890.	120.000	NG	1.37
43	168	1140	19:00	31	1.034	A BB	200762.	120.000	NG	1.37
44	109	1140	19:00	31	1.034	A BB	40911.	120.000	NG.	1.37
45	165	1155	19:15	31	1.048	A BB	61185.	120.000	NG.	1.37
46	166	1206	20:06	31	1.094	A BB	158326.	120.000	NG	1.37
47	204	1209	20:09	31	1.097	A BB	81925.	120.000	NG	1.37
48	149	1204	20:04	31	1.093	A BB	210613.	120.000	NG	1.37
49	138	1227	20:27	31	1.113	A BV	43477.	120.000	NG	1.37
50	198	1232	20:32	31	1.118	A BB	35896.	120.000	NG	1.37

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:40	1.00	0.949	1.00	120.00	120.00	1.217	1.217	1.00
3	8:24	1.00	0.920	1.00	120.00	120.00	1.848	1.848	1.00
4	8:37	1.00	0.943	1.00	120.00	120.00	1.564	1.564	1.00
5	9:02	1.00	0.989	1.00	120.00	120.00	1.409	1.409	1.00
6	9:11	1.00	1.005	1.00	120.00	120.00	1.475	1.475	1.00
7	9:41	1.00	1.060	1.00	120.00	120.00	1.369	1.369	1.00
8	9:38	1.00	1.055	1.00	120.00	120.00	0.917	0.917	1.00
9	10:03	1.00	1.100	1.00	120.00	120.00	3.712	3.712	1.00
10	9:58	1.00	1.091	1.00	120.00	120.00	1.292	1.292	1.00
11	10:30	1.00	1.150	1.00	120.00	120.00	0.819	0.819	1.00
12	10:24	1.00	1.139	1.00	120.00	120.00	1.360	1.360	1.00
13	10:29	1.00	1.148	1.00	120.00	120.00	1.778	1.778	1.00
14	6:06	1.00	0.668	1.00	120.00	120.00	1.158	1.158	1.00
15	8:22	1.00	0.916	1.00	120.00	120.00	1.592	1.592	1.00
16	12:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:52	1.00	0.848	1.00	120.00	120.00	0.758	0.758	1.00
18	11:32	1.00	0.900	1.00	120.00	120.00	1.304	1.304	1.00
19	11:46	1.00	0.918	1.00	120.00	120.00	0.248	0.248	1.00
20	11:56	1.00	0.931	1.00	120.00	120.00	0.548	0.548	1.00
21	12:15	1.00	0.956	1.00	120.00	120.00	0.729	0.729	1.00
22	12:27	1.00	0.971	1.00	120.00	120.00	0.380	0.380	1.00
23	12:41	1.00	0.990	1.00	120.00	120.00	0.402	0.402	1.00
24	12:53	1.00	1.005	1.00	120.00	120.00	1.265	1.265	1.00
25	12:24	1.00	0.967	1.00	120.00	120.00	0.189	0.189	1.00
26	13:11	1.00	1.029	1.00	120.00	120.00	0.581	0.581	1.00
27	13:24	1.00	1.046	1.00	120.00	120.00	0.260	0.260	1.00
28	14:41	1.00	1.146	1.00	120.00	120.00	0.548	0.548	1.00
29	15:00	1.00	1.170	1.00	120.00	120.00	0.783	0.783	1.00
30	10:49	1.00	0.844	1.00	120.00	120.00	0.726	0.726	1.00
31	18:22	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:42	1.00	0.855	1.00	120.00	120.00	0.444	0.444	1.00
33	16:01	1.00	0.872	1.00	120.00	120.00	0.428	0.428	1.00
34	16:07	1.00	0.877	1.00	120.00	120.00	0.396	0.396	1.00
35	16:33	1.00	0.901	1.00	120.00	120.00	1.152	1.152	1.00
36	17:05	1.00	0.930	1.00	120.00	120.00	0.882	0.882	1.00
37	17:53	1.00	0.974	1.00	120.00	120.00	1.906	1.906	1.00
38	17:47	1.00	0.968	1.00	120.00	120.00	1.496	1.496	1.00
39	18:02	1.00	0.982	1.00	120.00	120.00	0.379	0.379	1.00
40	18:30	1.00	1.007	1.00	120.00	120.00	1.176	1.176	1.00
41	18:26	1.00	1.004	1.00	120.00	120.00	0.444	0.444	1.00
42	18:44	1.00	1.020	1.00	120.00	120.00	0.250	0.250	1.00
43	19:00	1.00	1.034	1.00	120.00	120.00	1.676	1.676	1.00
44	19:00	1.00	1.034	1.00	120.00	120.00	0.342	0.342	1.00
45	19:15	1.00	1.048	1.00	120.00	120.00	0.511	0.511	1.00
46	20:06	1.00	1.094	1.00	120.00	120.00	1.322	1.322	1.00
47	20:09	1.00	1.097	1.00	120.00	120.00	0.684	0.684	1.00
48	20:04	1.00	1.093	1.00	120.00	120.00	1.759	1.759	1.00
49	20:27	1.00	1.113	1.00	120.00	120.00	0.363	0.363	1.00
50	20:32	1.00	1.118	1.00	120.00	120.00	0.300	0.300	1.00

ORIGINAL (Red)

100385

Quantitation Report File: T2571

ORIGINAL
(Red)

Data: T2571.TI
05/14/90 19:50:00
Sample: CLP,,,SSTD120,,,22660,B,IC120,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
51	169	1236	20:36	31	1.122	A BB	117438.	120.000	NG	1.37
52	248	1302	21:42	31	1.181	A BB	54025.	120.000	NG	1.37
53	284	1327	22:07	31	1.204	A BB	62867.	120.000	NG	1.37
54	172	976	16:16	31	0.886	A BB	147459.	120.000	NG*B2	1.37
55	188	1386	23:06	55	1.000	A BB	77945.	40.000	NG/UL	0.46
56	266	1364	22:44	55	0.984	A BB	36699.	120.000	NG.	1.37
57	178	1392	23:12	55	1.004	A BV	244789.	120.000	NG	1.37
58	178	1400	23:20	55	1.010	A VB	213274.	120.000	NG	1.37
59	149	1517	25:17	55	1.095	A BB	345461.	120.000	NG	1.37
60	202	1624	27:04	55	1.172	A BB	225257.	120.000	NG	1.37
61	202	1668	27:48	63	0.876	A BB	222089.	120.000	NG.	1.37
62	330	1257	20:57	31	1.141	A BB	34299.	120.000	NG*A3	1.37
63	240	1904	31:44	63	1.000	A VB	58996.	40.000	NG/UL	0.46
64	149	1809	30:09	63	0.950	A BB	147644.	120.000	NG	1.37
65	228	1901	31:41	63	0.998	A BV	191625.	120.000	NG	1.37
66	228	1909	31:49	63	1.003	A VB	125987.	120.000	NG	1.37

ORIGINAL (Red)

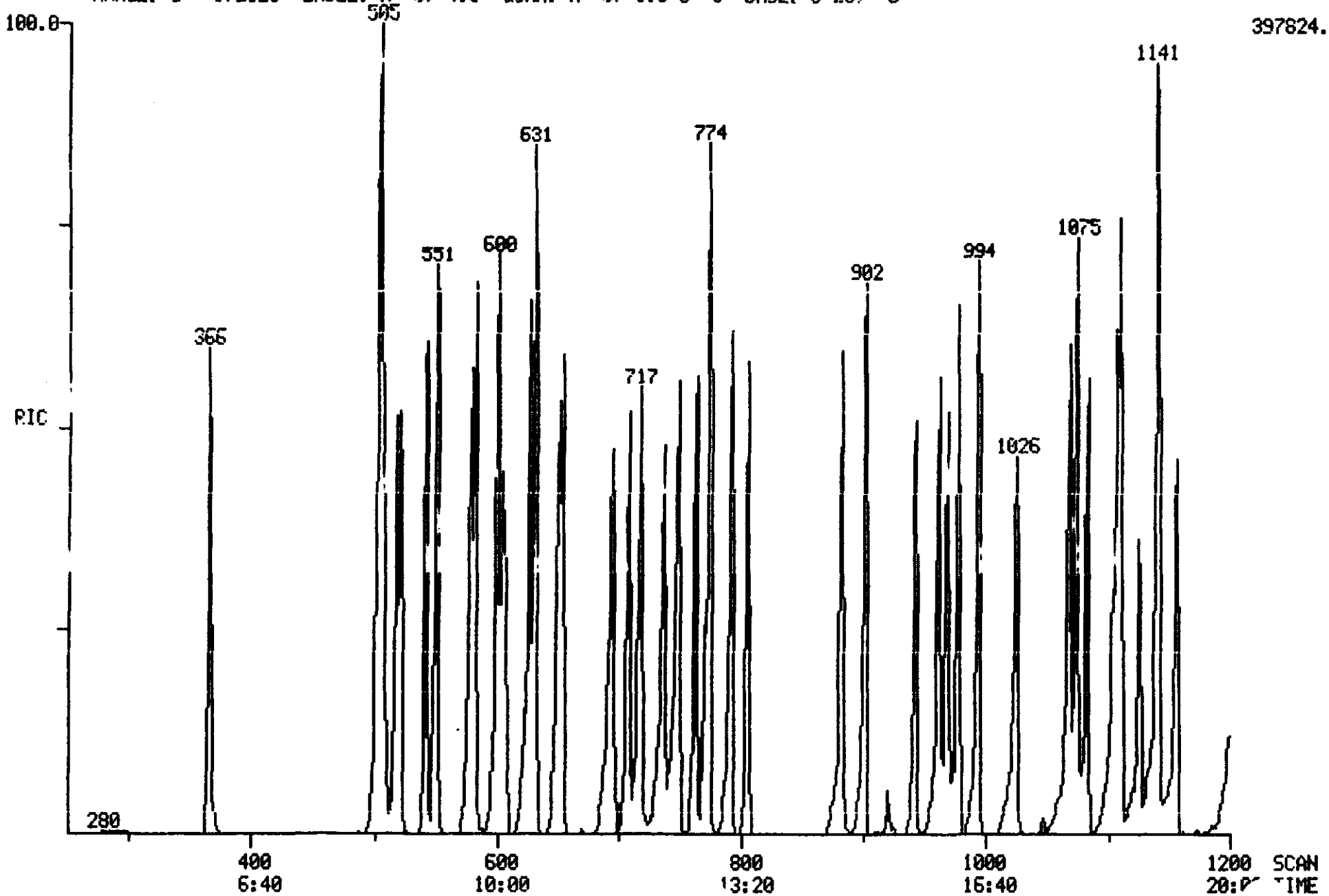
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	252	1902	31:42	63	0.999	A BB	58908.	120.000	NG	1.37
68	149	1918	31:58	63	1.007	A BB	193507.	120.000	NG	1.37
69	244	1703	28:23	63	0.894	A BB	155700.	120.000	NG*B3	1.37
70	264	2213	36:53	70	1.000	A VB	48058.	40.000	NG/UL	0.46
71	149	2031	33:51	70	0.918	A BB	317713.	120.000	NG	1.37
72	252	2116	35:16	70	0.956	A BV	173161.	120.000	NG	1.37
73	252	2123	35:23	70	0.959	A VB	137612.	120.000	NG	1.37
74	252	2199	36:39	70	0.994	A VB	147877.	120.000	NG	1.37
75	276	2580	43:00	70	1.166	A BV	139361.	120.000	NG	1.37
76	278	2591	43:11	70	1.171	A BB	129607.	120.000	NG	1.37
77	276	2693	44:53	70	1.217	A BB	139583.	120.000	NG	1.37

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:36	1.00	1.122	1.00	120.00	120.00	0.981	0.981	1.00
52	21:42	1.00	1.181	1.00	120.00	120.00	0.451	0.451	1.00
53	22:07	1.00	1.204	1.00	120.00	120.00	0.525	0.525	1.00
54	16:16	1.00	0.886	1.00	120.00	120.00	1.231	1.231	1.00
55	23:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:44	1.00	0.984	1.00	120.00	120.00	0.157	0.157	1.00
57	23:12	1.00	1.004	1.00	120.00	120.00	1.047	1.047	1.00
58	23:20	1.00	1.010	1.00	120.00	120.00	0.912	0.912	1.00
59	25:17	1.00	1.095	1.00	120.00	120.00	1.477	1.477	1.00
60	27:04	1.00	1.172	1.00	120.00	120.00	0.963	0.963	1.00
61	27:48	1.00	0.876	1.00	120.00	120.00	1.255	1.255	1.00
62	20:57	1.00	1.141	1.00	120.00	120.00	0.286	0.286	1.00
63	31:44	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	30:09	1.00	0.950	1.00	120.00	120.00	0.834	0.834	1.00
65	31:41	1.00	0.998	1.00	120.00	120.00	1.083	1.083	1.00
66	31:49	1.00	1.003	1.00	120.00	120.00	0.712	0.712	1.00
67	31:42	1.00	0.999	1.00	120.00	120.00	0.333	0.333	1.00
68	31:58	1.00	1.007	1.00	120.00	120.00	1.093	1.093	1.00
69	28:23	1.00	0.894	1.00	120.00	120.00	0.880	0.880	1.00
70	36:53	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:51	1.00	0.918	1.00	120.00	120.00	2.204	2.204	1.00
72	35:16	1.00	0.956	1.00	120.00	120.00	1.201	1.201	1.00
73	35:23	1.00	0.959	1.00	120.00	120.00	0.954	0.954	1.00
74	36:39	1.00	0.994	1.00	120.00	120.00	1.026	1.026	1.00
75	43:00	1.00	1.166	1.00	120.00	120.00	0.967	0.967	1.00
76	43:11	1.00	1.171	1.00	120.00	120.00	0.899	0.899	1.00
77	44:53	1.00	1.217	1.00	120.00	120.00	0.968	0.968	1.00

ORIGINAL (Red)

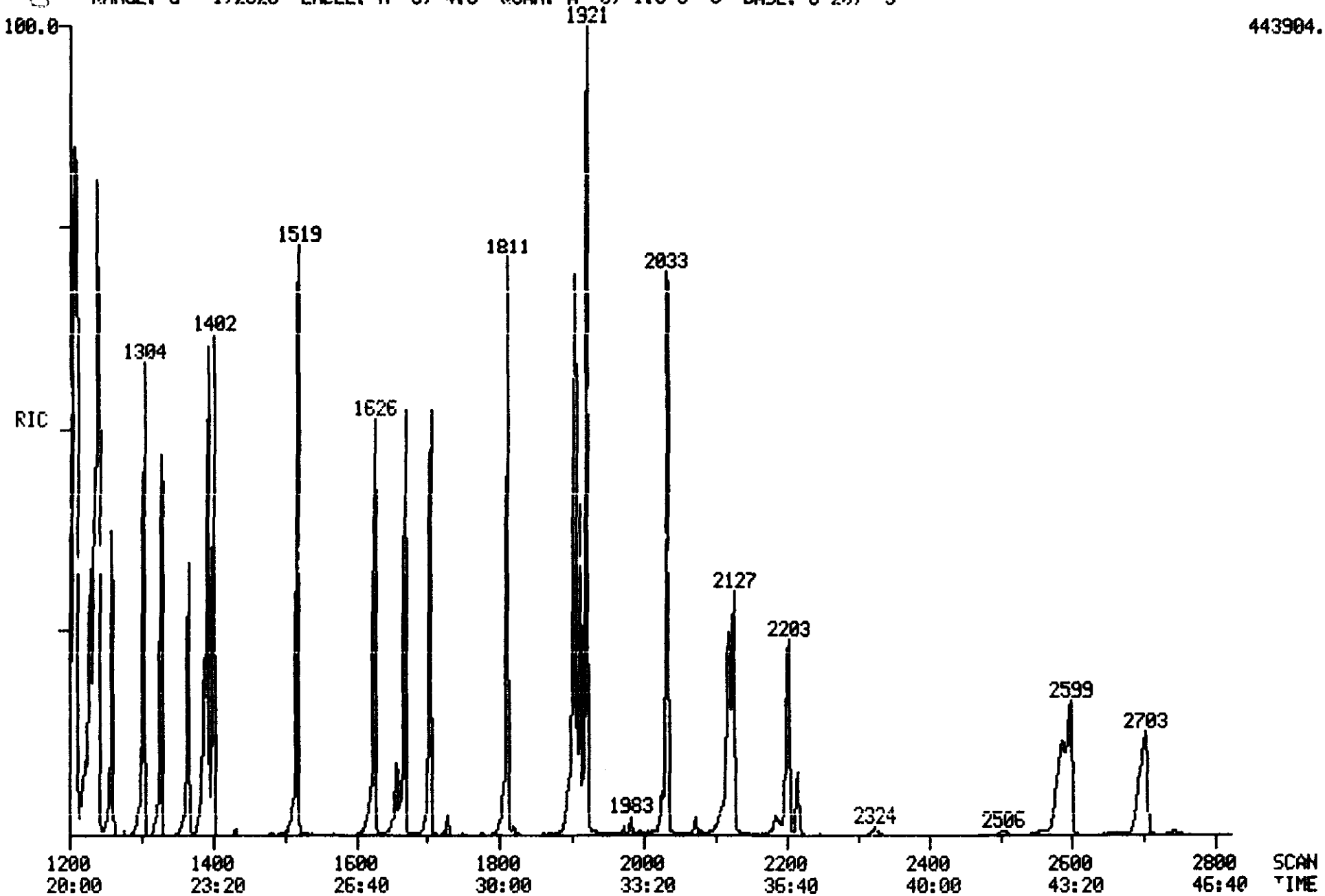
100388

RIC DATA: T2570 #1 SCANS 250 TO 1200
05/14/90 18:56:00 CALI: T2570 #2
SAMPLE. CLP,,,SSTD160,,,22659,B,IC160,,1UL
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
RANGE: C 1,2820 LABEL: N 0, 4.0 CUAN: A 0, 1.0 J 0 BASE: U 20, 3



ORIGINAL (Red)

RIC DATA: T2570 #1 SCANS 1200 TO 2820
05/14/90 18:56:00 CALI: T2570 #2
SAMPLE: CLP,,,SSTD160,,,22659,B,IC160,,1UL
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: C 1,2820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



100389

Quantitation Report File: T2570

Data: T2570.TI
05/14/90 18:56:00
Sample: CLP,,,SSTD160,,,22659,B,IC160,,1UL
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: --

ORIGINAL
(Red)

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	548	9:08	1	1.000	A BB	20282.	40.000	NG/UL	0.34
2	128	521	8:41	1	0.951	A BB	102825.	160.000	NG.	1.38
3	94	505	8:25	1	0.922	A BV	151079.	160.000	NG.	1.38
4	93	518	8:38	1	0.945	A VB	127377.	160.000	NG	1.38
5	146	542	9:02	1	0.989	A BV	115936.	160.000	NG	1.38
6	146	551	9:11	1	1.005	A VB	118346.	160.000	NG.	1.38
7	146	582	9:42	1	1.062	A BB	111135.	160.000	NG	1.38
8	108	579	9:39	1	1.057	A BB	75320.	160.000	NG	1.38
9	45	604	10:04	1	1.102	A BB	290105.	160.000	NG	1.38
10	108	600	10:00	1	1.095	A BB	105561.	160.000	NG	1.38
11	117	630	10:30	1	1.150	A BB	64706.	160.000	NG	1.38
12	108	626	10:26	1	1.142	A BB	112812.	160.000	NG	1.38
13	70	632	10:32	1	1.153	A BB	141991.	160.000	NG.	1.38
14	112	366	6:06	1	0.668	A BB	92303.	160.000	NG*A1	1.38
15	99	503	8:23	1	0.918	A BB	131614.	160.000	NG*A2	1.38
16	136	770	12:50	16	1.000	A BB	65796.	40.000	NG/UL	0.34
17	77	653	10:53	16	0.848	A BB	197046.	160.000	NG	1.38
18	82	694	11:34	16	0.901	A BB	347501.	160.000	NG	1.38
19	139	707	11:47	16	0.918	A BB	66477.	160.000	NG	1.38
20	107	717	11:57	16	0.931	A BB	147672.	160.000	NG	1.38
21	93	736	12:16	16	0.956	A BB	196639.	160.000	NG	1.38
22	162	748	12:28	16	0.971	A BB	99941.	160.000	NG	1.38
23	180	762	12:42	16	0.990	A BB	99439.	160.000	NG.	1.38
24	128	774	12:54	16	1.005	A BB	319615.	160.000	NG	1.38
25	122	748	12:28	16	0.971	A BB	41503.	160.000	NG	1.38
26	127	792	13:12	16	1.029	A BB	154504.	160.000	NG	1.38
27	225	805	13:25	16	1.045	A BB	61914.	160.000	NG	1.38
28	107	882	14:42	16	1.145	A BB	144217.	160.000	NG.	1.38
29	142	902	15:02	16	1.171	A BB	199678.	160.000	NG	1.38
30	82	650	10:50	16	0.844	A BB	186015.	160.000	NG*B1	1.38
31	164	1104	18:24	31	1.000	A BB	45409.	40.000	NG/UL	0.34
32	237	942	15:42	31	0.853	A BB	78981.	160.000	NG	1.38
33	196	962	16:02	31	0.871	A BV	78920.	160.000	NG	1.38
34	196	968	16:08	31	0.877	A VB	63954.	160.000	NG	1.38
35	162	994	16:34	31	0.900	A BB	206261.	160.000	NG	1.38
36	65	1026	17:06	31	0.929	A BB	160195.	160.000	NG	1.38
37	152	1075	17:55	31	0.974	A BB	342668.	160.000	NG	1.38
38	163	1069	17:49	31	0.968	A BB	259281.	160.000	NG	1.38
39	165	1083	18:03	31	0.981	A VB	65416.	160.000	NG	1.38
40	153	1111	18:31	31	1.006	A BB	206047.	160.000	NG.	1.38
41	138	1108	18:28	31	1.004	A BB	77777.	160.000	NG	1.38
42	184	1126	18:46	31	1.020	A BB	46771.	160.000	NG	1.38
43	168	1141	19:01	31	1.034	A BB	294406.	160.000	NG	1.38
44	109	1142	19:02	31	1.034	A BB	54793.	160.000	NG.	1.38
45	165	1157	19:17	31	1.048	A BB	88276.	160.000	NG.	1.38
46	166	1208	20:08	31	1.094	A BB	226882.	160.000	NG	1.38
47	204	1210	20:10	31	1.096	A BB	115497.	160.000	NG	1.38
48	149	1205	20:05	31	1.091	A BB	294808.	160.000	NG	1.38
49	138	1229	20:29	31	1.113	A BB	56864.	160.000	NG	1.38
50	198	1234	20:34	31	1.118	A VB	36326.	160.000	NG	1.38

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:41	1.00	0.951	1.00	160.00	160.00	1.267	1.267	1.00
3	8:25	1.00	0.922	1.00	160.00	160.00	1.862	1.862	1.00
4	8:38	1.00	0.945	1.00	160.00	160.00	1.570	1.570	1.00
5	9:02	1.00	0.989	1.00	160.00	160.00	1.429	1.429	1.00
6	9:11	1.00	1.005	1.00	160.00	160.00	1.459	1.459	1.00
7	9:42	1.00	1.062	1.00	160.00	160.00	1.370	1.370	1.00
8	9:39	1.00	1.057	1.00	160.00	160.00	0.928	0.928	1.00
9	10:04	1.00	1.102	1.00	160.00	160.00	3.576	3.576	1.00
10	10:00	1.00	1.095	1.00	160.00	160.00	1.301	1.301	1.00
11	10:30	1.00	1.150	1.00	160.00	160.00	0.798	0.798	1.00
12	10:26	1.00	1.142	1.00	160.00	160.00	1.391	1.391	1.00
13	10:32	1.00	1.153	1.00	160.00	160.00	1.750	1.750	1.00
14	6:06	1.00	0.668	1.00	160.00	160.00	1.138	1.138	1.00
15	8:23	1.00	0.918	1.00	160.00	160.00	1.622	1.622	1.00
16	12:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:53	1.00	0.848	1.00	160.00	160.00	0.749	0.749	1.00
18	11:34	1.00	0.901	1.00	160.00	160.00	1.320	1.320	1.00
19	11:47	1.00	0.918	1.00	160.00	160.00	0.253	0.253	1.00
20	11:57	1.00	0.931	1.00	160.00	160.00	0.561	0.561	1.00
21	12:16	1.00	0.956	1.00	160.00	160.00	0.747	0.747	1.00
22	12:28	1.00	0.971	1.00	160.00	160.00	0.380	0.380	1.00
23	12:42	1.00	0.990	1.00	160.00	160.00	0.378	0.378	1.00
24	12:54	1.00	1.005	1.00	160.00	160.00	1.214	1.214	1.00
25	12:28	1.00	0.971	1.00	160.00	160.00	0.158	0.158	1.00
26	13:12	1.00	1.029	1.00	160.00	160.00	0.587	0.587	1.00
27	13:25	1.00	1.045	1.00	160.00	160.00	0.235	0.235	1.00
28	14:42	1.00	1.145	1.00	160.00	160.00	0.548	0.548	1.00
29	15:02	1.00	1.171	1.00	160.00	160.00	0.759	0.759	1.00
30	10:50	1.00	0.844	1.00	160.00	160.00	0.707	0.707	1.00
31	18:24	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:42	1.00	0.853	1.00	160.00	160.00	0.435	0.435	1.00
33	16:02	1.00	0.871	1.00	160.00	160.00	0.434	0.434	1.00
34	16:08	1.00	0.877	1.00	160.00	160.00	0.352	0.352	1.00
35	16:34	1.00	0.900	1.00	160.00	160.00	1.136	1.136	1.00
36	17:06	1.00	0.929	1.00	160.00	160.00	0.882	0.882	1.00
37	17:55	1.00	0.974	1.00	160.00	160.00	1.887	1.887	1.00
38	17:49	1.00	0.968	1.00	160.00	160.00	1.427	1.427	1.00
39	18:03	1.00	0.981	1.00	160.00	160.00	0.360	0.360	1.00
40	18:31	1.00	1.006	1.00	160.00	160.00	1.134	1.134	1.00
41	18:28	1.00	1.004	1.00	160.00	160.00	0.428	0.428	1.00
42	18:46	1.00	1.020	1.00	160.00	160.00	0.257	0.257	1.00
43	19:01	1.00	1.034	1.00	160.00	160.00	1.621	1.621	1.00
44	19:02	1.00	1.034	1.00	160.00	160.00	0.302	0.302	1.00
45	19:17	1.00	1.048	1.00	160.00	160.00	0.486	0.486	1.00
46	20:08	1.00	1.094	1.00	160.00	160.00	1.249	1.249	1.00
47	20:10	1.00	1.096	1.00	160.00	160.00	0.636	0.636	1.00
48	20:05	1.00	1.091	1.00	160.00	160.00	1.623	1.623	1.00
49	20:29	1.00	1.113	1.00	160.00	160.00	0.313	0.313	1.00
50	20:34	1.00	1.118	1.00	160.00	160.00	0.200	0.200	1.00

ORIGINAL (Red)

Quantitation Report File: T2570

Data: T2570.TI
05/14/90 18:56:00
Sample: CLP,,,SSTD160,,,22659,B,IC160,,1UL
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: --

ORIGINAL
(Red)

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
51	169	1238	20:38	31	1.121	A BB	167955.	160.000	NG	1.38
52	248	1303	21:43	31	1.180	A BB	78410.	160.000	NG	1.38
53	284	1328	22:08	31	1.203	A BB	89603.	160.000	NG	1.38
54	172	978	16:18	31	0.886	A BB	215882.	160.000	NG*B2	1.38
55	188	1388	23:08	55	1.000	A BB	85615.	40.000	NG/UL	0.34
56	266	1365	22:45	55	0.983	A BB	55455.	160.000	NG.	1.38
57	178	1393	23:13	55	1.004	A BV	340098.	160.000	NG	1.38
58	178	1402	23:22	55	1.010	A VB	277988.	160.000	NG	1.38
59	149	1519	25:19	55	1.094	A BB	459053.	160.000	NG	1.38
60	202	1626	27:06	55	1.171	A BB	300116.	160.000	NG	1.38
61	202	1670	27:50	63	0.876	A BB	303471.	160.000	NG.	1.38
62	330	1259	20:59	31	1.140	A BB	49198.	160.000	NG*A3	1.38
63	240	1906	31:46	63	1.000	A VB	60818.	40.000	NG/UL	0.34
64	149	1811	30:11	63	0.950	A BB	205802.	160.000	NG	1.38
65	228	1903	31:43	63	0.998	A BV	279375.	160.000	NG	1.38
66	228	1911	31:51	63	1.003	A VB	162429.	160.000	NG	1.38

ORIGINAL (Red)

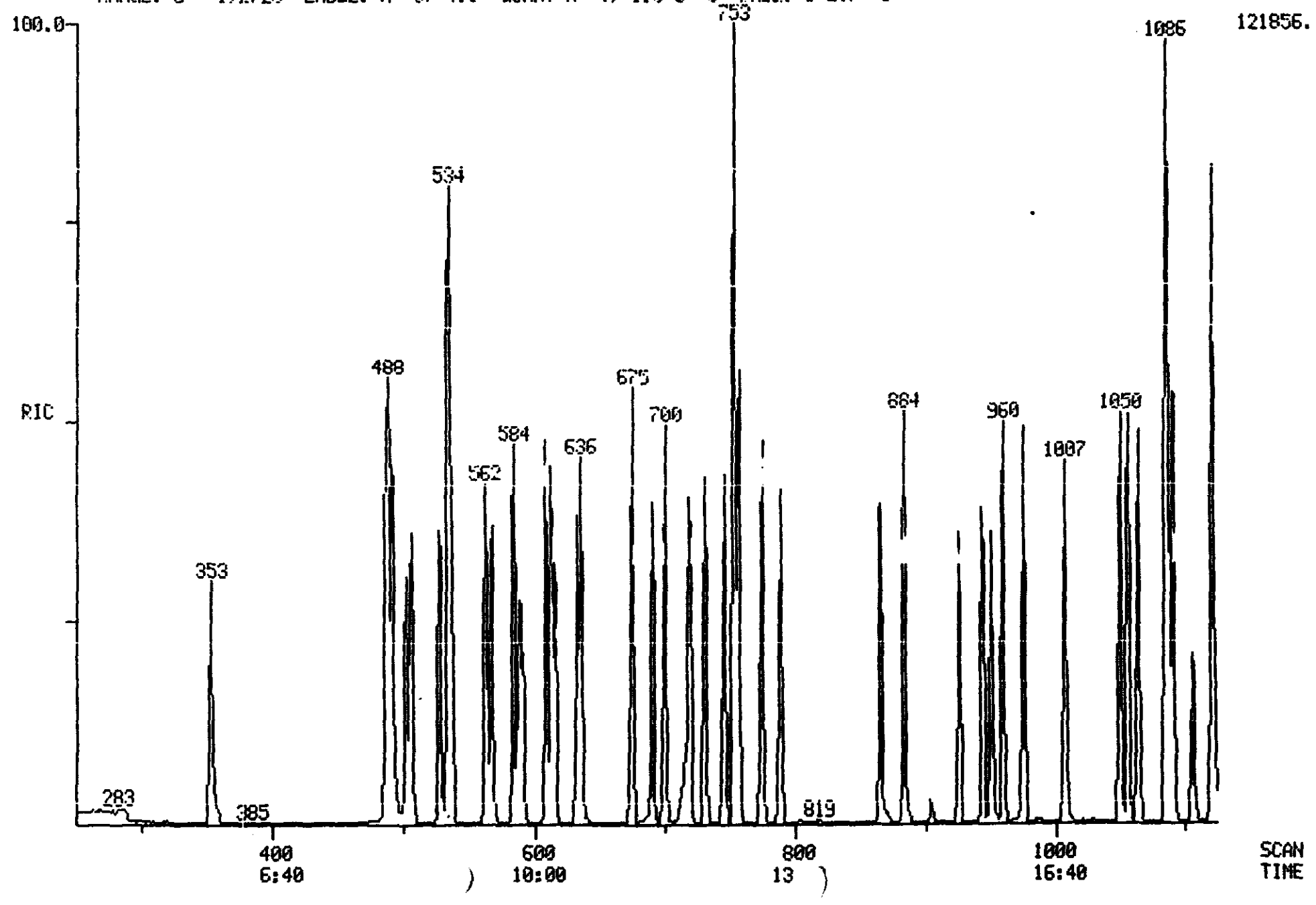
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	252	1904	31:44	63	0.999	A BB	77082.	160.000	NG	1.38
68	149	1921	32:01	63	1.008	A VB	281407.	160.000	NG	1.38
69	244	1705	28:25	63	0.895	A BB	212033.	160.000	NG*B3	1.38
70	264	2216	36:56	70	1.000	A VB	51864.	40.000	NG/UL	0.34
71	149	2033	33:53	70	0.917	A VB	388751.	160.000	NG	1.38
72	252	2120	35:20	70	0.957	A BV	241287.	160.000	NG	1.38
73	252	2126	35:26	70	0.959	A VB	187902.	160.000	NG	1.38
74	252	2203	36:43	70	0.994	A VB	202203.	160.000	NG	1.38
75	276	2587	43:07	70	1.167	A BV	199186.	160.000	NG	1.38
76	278	2599	43:19	70	1.173	A BB	185883.	160.000	NG	1.38
77	276	2703	45:03	70	1.220	A BB	195194.	160.000	NG	1.38

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:38	1.00	1.121	1.00	160.00	160.00	0.925	0.925	1.00
52	21:43	1.00	1.180	1.00	160.00	160.00	0.432	0.432	1.00
53	22:08	1.00	1.203	1.00	160.00	160.00	0.493	0.493	1.00
54	16:18	1.00	0.886	1.00	160.00	160.00	1.189	1.189	1.00
55	23:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:45	1.00	0.983	1.00	160.00	160.00	0.162	0.162	1.00
57	23:13	1.00	1.004	1.00	160.00	160.00	0.993	0.993	1.00
58	23:22	1.00	1.010	1.00	160.00	160.00	0.812	0.812	1.00
59	25:19	1.00	1.094	1.00	160.00	160.00	1.340	1.340	1.00
60	27:06	1.00	1.171	1.00	160.00	160.00	0.876	0.876	1.00
61	27:50	1.00	0.876	1.00	160.00	160.00	1.247	1.247	1.00
62	20:59	1.00	1.140	1.00	160.00	160.00	0.271	0.271	1.00
63	31:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	30:11	1.00	0.950	1.00	160.00	160.00	0.846	0.846	1.00
65	31:43	1.00	0.998	1.00	160.00	160.00	1.148	1.148	1.00
66	31:51	1.00	1.003	1.00	160.00	160.00	0.668	0.668	1.00
67	31:44	1.00	0.999	1.00	160.00	160.00	0.317	0.317	1.00
68	32:01	1.00	1.008	1.00	160.00	160.00	1.157	1.157	1.00
69	28:25	1.00	0.895	1.00	160.00	160.00	0.872	0.872	1.00
70	36:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:53	1.00	0.917	1.00	160.00	160.00	1.874	1.874	1.00
72	35:20	1.00	0.957	1.00	160.00	160.00	1.163	1.163	1.00
73	35:26	1.00	0.959	1.00	160.00	160.00	0.906	0.906	1.00
74	36:43	1.00	0.994	1.00	160.00	160.00	0.975	0.975	1.00
75	43:07	1.00	1.167	1.00	160.00	160.00	0.960	0.960	1.00
76	43:19	1.00	1.173	1.00	160.00	160.00	0.896	0.896	1.00
77	45:03	1.00	1.220	1.00	160.00	160.00	0.941	0.941	1.00

ORIGINAL (Red)

100395

RIC DATA: T2628 #1 SCANS 250 TO 1125
05/16/90 21:32:00 CALI: T2628 #2
SAMPLE. CLP,,,SSTD20,,,22662,B,IC20,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: C 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 PASE: U 20, 3



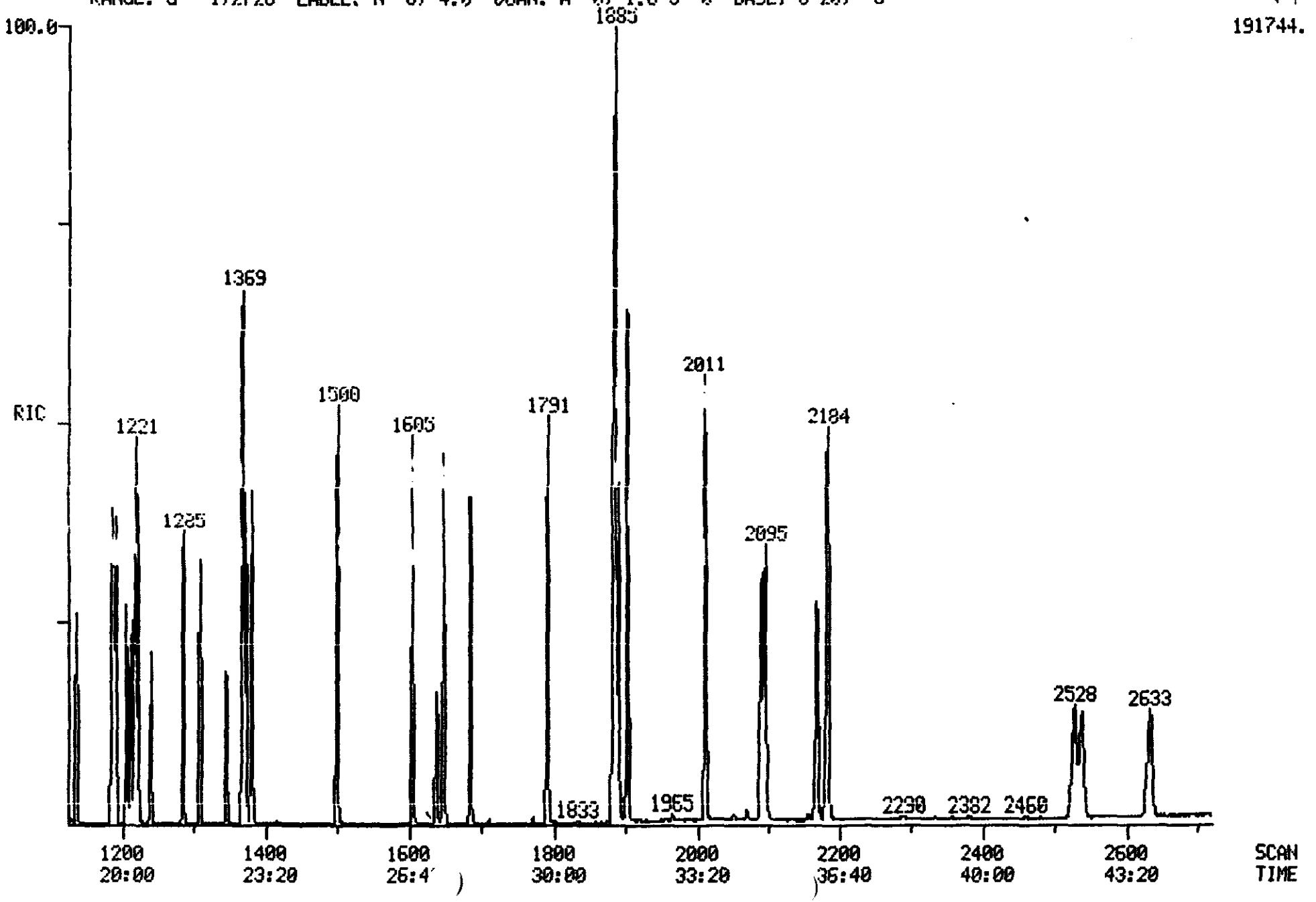
ORIGINAL (Red)

RIC
05/16/90 21:32:00
SAMPLE: CLP,,,SSTD20,,,22662,6,IC20,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2628 #1
CALI: T2628 #2

SCANS 1125 TO 2720

100396



Quantitation Report File: T2628

ORIGINAL
(Red)

Data: T2628.TI
5/16/90 21:32:00
Sample: CLP,,,SSTD20,,,22662,B,IC20,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

ORIGINAL
(Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	534	8:54	1	1.000	A BB	26734.	40.000 NG/UL	2.41
2	128	506	8:26	1	0.948	A BB	19226.	20.000 NG.	1.20
3	94	488	8:08	1	0.914	A BB	31493.	20.000 NG.	1.20
4	93	502	8:22	1	0.940	A VB	26112.	20.000 NG	1.20
5	146	527	8:47	1	0.987	A BB	20494.	20.000 NG	1.20
6	146	536	8:56	1	1.004	A BB	21652.	20.000 NG.	1.20
7	146	566	9:26	1	1.060	A BB	19716.	20.000 NG	1.20
8	108	562	9:22	1	1.052	A BB	13759.	20.000 NG	1.20
9	45	588	9:48	1	1.101	A BB	51081.	20.000 NG	1.20
10	108	584	9:44	1	1.094	A BB	20776.	20.000 NG	1.20
11	117	615	10:15	1	1.152	A BB	11690.	20.000 NG	1.20
12	108	608	10:08	1	1.139	A BB	21077.	20.000 NG	1.20
13	,70	612	10:12	1	1.146	A BB	21784.	20.000 NG.	1.20
14	112	353	5:53	1	0.661	A BB	19228.	20.000 NG*A1	1.20
15	99	486	8:06	1	0.910	A BB	27114.	20.000 NG*A2	1.20
16	136	753	12:33	16	1.000	A BB	84808.	40.000 NG/UL	2.41
17	77	636	10:36	16	0.845	A BB	33778.	20.000 NG	1.20
18	82	675	11:15	16	0.896	A BB	57398.	20.000 NG	1.20
19	139	691	11:31	16	0.918	A BB	10092.	20.000 NG	1.20
20	107	700	11:40	16	0.930	A BB	22201.	20.000 NG	1.20
21	93	719	11:59	16	0.955	A BB	33878.	20.000 NG	1.20
22	162	731	12:11	16	0.971	A BB	14987.	20.000 NG	1.20
23	180	746	12:26	16	0.991	A BB	15795.	20.000 NG.	1.20
24	128	757	12:37	16	1.005	A BB	59833.	20.000 NG	1.20
25	122	717	11:57	16	0.952	A BB	8335.	20.000 NG	1.20
26	127	775	12:55	16	1.029	A BB	25970.	20.000 NG	1.20
27	225	789	13:09	16	1.048	A BB	12419.	20.000 NG	1.20
28	107	865	14:25	16	1.149	A BB	21447.	20.000 NG.	1.20
29	142	884	14:44	16	1.174	A BB	33740.	20.000 NG	1.20
30	82	633	10:33	16	0.841	A BB	30941.	20.000 NG*B1	1.20
31	164	1085	18:05	31	1.000	A BB	55975.	40.000 NG/UL	2.41
32	237	926	15:26	31	0.853	A BB	13465.	20.000 NG	1.20
33	196	944	15:44	31	0.870	A BV	10740.	20.000 NG	1.20
34	196	950	15:50	31	0.876	A VB	12121.	20.000 NG	1.20
35	162	975	16:15	31	0.899	A BB	34920.	20.000 NG	1.20
36	65	1007	16:47	31	0.928	A BB	26428.	20.000 NG	1.20
37	152	1056	17:36	31	0.973	A BB	57108.	20.000 NG	1.20
38	163	1050	17:30	31	0.968	A BB	43097.	20.000 NG	1.20
39	165	1064	17:44	31	0.981	A BB	10238.	20.000 NG	1.20
40	153	1091	18:11	31	1.006	A BB	36575.	20.000 NG.	1.20
41	138	1088	18:08	31	1.003	A BB	13565.	20.000 NG	1.20
42	184	1106	18:26	31	1.019	A BB	5125.	20.000 NG	1.20
43	168	1122	18:42	31	1.034	A BB	55330.	20.000 NG	1.20
44	109	1122	18:42	31	1.034	A BB	10946.	20.000 NG.	1.20
45	165	1136	18:56	31	1.047	A BB	15833.	20.000 NG.	1.20
46	166	1188	19:48	31	1.095	A BB	41445.	20.000 NG	1.20
47	204	1191	19:51	31	1.098	A BB	25080.	20.000 NG	1.20
48	149	1186	19:46	31	1.093	A BB	51653.	20.000 NG	1.20
49	138	1206	20:06	31	1.112	A BB	14623.	20.000 NG	1.20
50	198	1212	20:12	31	1.117	A BB	8520.	20.000 NG	1.20

ORIGINAL
(Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:26	1.00	0.948	1.00	20.00	20.00	1.438	1.438	1.00
3	8:08	1.00	0.914	1.00	20.00	20.00	2.356	2.356	1.00
4	8:22	1.00	0.940	1.00	20.00	20.00	1.953	1.953	1.00
5	8:47	1.00	0.987	1.00	20.00	20.00	1.533	1.533	1.00
6	8:56	1.00	1.004	1.00	20.00	20.00	1.620	1.620	1.00
7	9:26	1.00	1.060	1.00	20.00	20.00	1.475	1.475	1.00
8	9:22	1.00	1.052	1.00	20.00	20.00	1.029	1.029	1.00
9	9:48	1.00	1.101	1.00	20.00	20.00	3.821	3.821	1.00
10	9:44	1.00	1.094	1.00	20.00	20.00	1.554	1.554	1.00
11	10:15	1.00	1.152	1.00	20.00	20.00	0.875	0.875	1.00
12	10:08	1.00	1.139	1.00	20.00	20.00	1.577	1.577	1.00
13	10:12	1.00	1.146	1.00	20.00	20.00	1.630	1.630	1.00
14	5:53	1.00	0.661	1.00	20.00	20.00	1.438	1.438	1.00
15	8:06	1.00	0.910	1.00	20.00	20.00	2.028	2.028	1.00
16	12:33	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:36	1.00	0.845	1.00	20.00	20.00	0.797	0.797	1.00
18	11:15	1.00	0.896	1.00	20.00	20.00	1.354	1.354	1.00
19	11:31	1.00	0.918	1.00	20.00	20.00	0.238	0.238	1.00
20	11:40	1.00	0.930	1.00	20.00	20.00	0.524	0.524	1.00
21	11:59	1.00	0.955	1.00	20.00	20.00	0.799	0.799	1.00
22	12:11	1.00	0.971	1.00	20.00	20.00	0.353	0.353	1.00
23	12:26	1.00	0.991	1.00	20.00	20.00	0.372	0.372	1.00
24	12:37	1.00	1.005	1.00	20.00	20.00	1.411	1.411	1.00
25	11:57	1.00	0.952	1.00	20.00	20.00	0.197	0.197	1.00
26	12:55	1.00	1.029	1.00	20.00	20.00	0.612	0.612	1.00
27	13:09	1.00	1.048	1.00	20.00	20.00	0.293	0.293	1.00
28	14:25	1.00	1.149	1.00	20.00	20.00	0.506	0.506	1.00
29	14:44	1.00	1.174	1.00	20.00	20.00	0.796	0.796	1.00
30	10:33	1.00	0.841	1.00	20.00	20.00	0.730	0.730	1.00
31	18:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:26	1.00	0.853	1.00	20.00	20.00	0.481	0.481	1.00
33	15:44	1.00	0.870	1.00	20.00	20.00	0.384	0.384	1.00
34	15:50	1.00	0.876	1.00	20.00	20.00	0.433	0.433	1.00
35	16:15	1.00	0.899	1.00	20.00	20.00	1.248	1.248	1.00
36	16:47	1.00	0.928	1.00	20.00	20.00	0.944	0.944	1.00
37	17:36	1.00	0.973	1.00	20.00	20.00	2.040	2.040	1.00
38	17:30	1.00	0.968	1.00	20.00	20.00	1.540	1.540	1.00
39	17:44	1.00	0.981	1.00	20.00	20.00	0.366	0.366	1.00
40	18:11	1.00	1.006	1.00	20.00	20.00	1.307	1.307	1.00
41	18:08	1.00	1.003	1.00	20.00	20.00	0.485	0.485	1.00
42	18:26	1.00	1.019	1.00	20.00	20.00	0.183	0.183	1.00
43	18:42	1.00	1.034	1.00	20.00	20.00	1.977	1.977	1.00
44	18:42	1.00	1.034	1.00	20.00	20.00	0.391	0.391	1.00
45	18:56	1.00	1.047	1.00	20.00	20.00	0.566	0.566	1.00
46	19:48	1.00	1.095	1.00	20.00	20.00	1.481	1.481	1.00
47	19:51	1.00	1.098	1.00	20.00	20.00	0.896	0.896	1.00
48	19:46	1.00	1.093	1.00	20.00	20.00	1.846	1.846	1.00
49	20:06	1.00	1.112	1.00	20.00	20.00	0.522	0.522	1.00
50	20:12	1.00	1.117	1.00	20.00	20.00	0.304	0.304	1.00

Quantitation Report File: T2628

ORIGINAL
(Red)

Data: T2628.TI
5/16/90 21:32:00
Sample: CLP,,,SSTD20,,,22662,B,IC20,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1217	20:17	31	1.122	A BB	34156.	20.000 NG	1.20
52	248	1284	21:24	31	1.183	A BB	18839.	20.000 NG	1.20
53	284	1308	21:48	31	1.206	A BB	25882.	20.000 NG	1.20
54	172	960	16:00	31	0.885	A BB	36837.	20.000 NG*B2	1.20
55	188	1368	22:48	55	1.000	A BV	130774.	40.000 NG/UL	2.41
56	266	1345	22:25	55	0.983	A BB	11621.	20.000 NG.	1.20
57	178	1373	22:53	55	1.004	A BV	76396.	20.000 NG	1.20
58	178	1381	23:01	55	1.010	A VB	76667.	20.000 NG	1.20
59	149	1500	25:00	55	1.096	A BB	109376.	20.000 NG	1.20
60	202	1605	26:45	55	1.173	A BB	95369.	20.000 NG	1.20
61	202	1648	27:28	63	0.874	A BB	97873.	20.000 NG.	1.20
62	330	1239	20:39	31	1.142	A BB	11605.	20.000 NG*A3	1.20
63	240	1886	31:26	63	1.000	A BB	160737.	40.000 NG/UL	2.41
64	149	1791	29:51	63	0.950	A BB	45998.	20.000 NG	1.20
65	228	1882	31:22	63	0.998	A BV	88206.	20.000 NG	1.20
66	228	1890	31:30	63	1.002	A VB	75136.	20.000 NG	1.20

100400

ORIGINAL (Red)

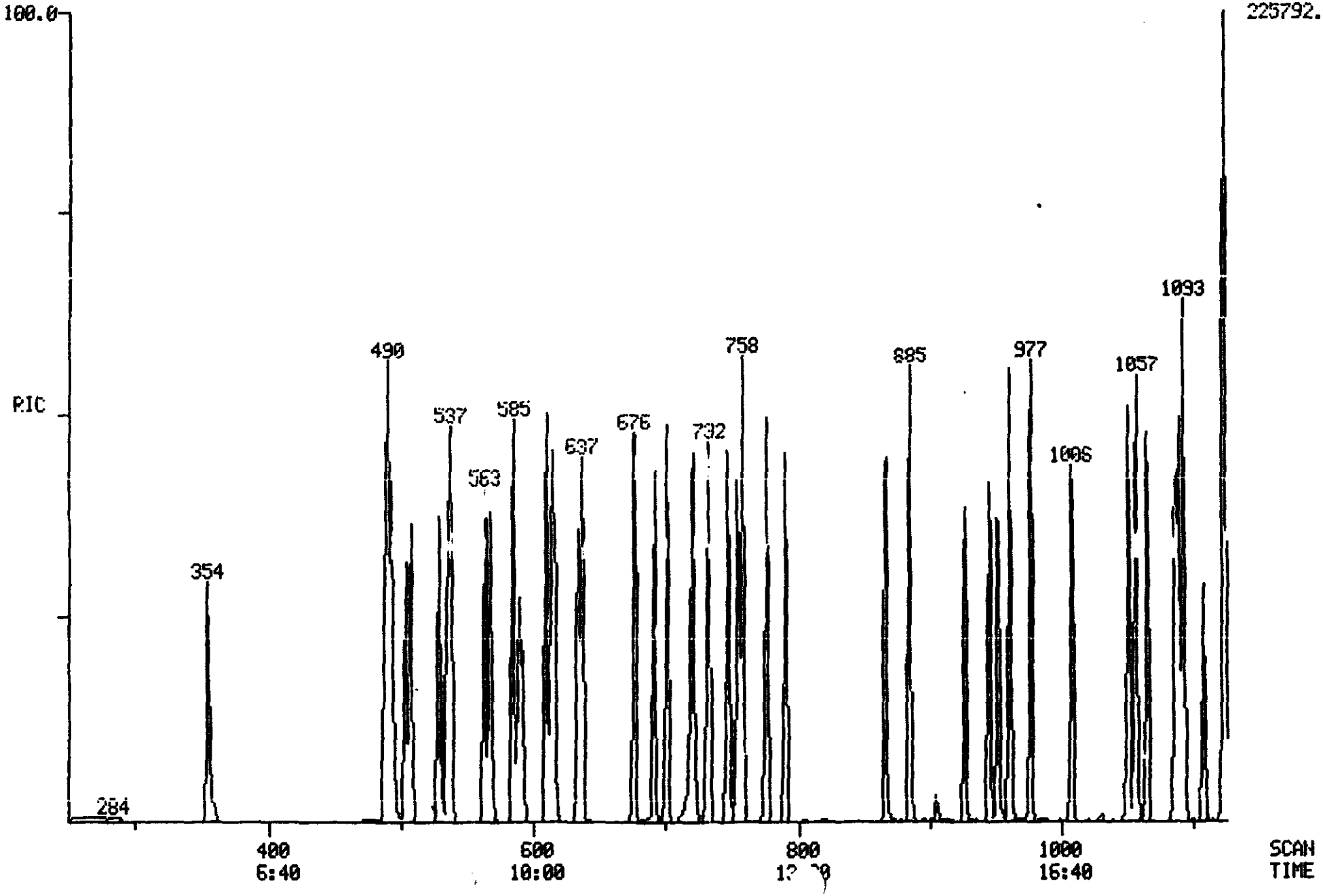
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	252	1884	31:24	63	0.999	A BB	32119.	20.000	NG	1.20
68	149	1902	31:42	63	1.008	A BB	67739.	20.000	NG	1.20
69	244	1684	28:04	63	0.893	A BB	73468.	20.000	NG*B3	1.20
70	264	2184	36:24	70	1.000	A BB	159460.	40.000	NG/UL	2.41
71	149	2011	33:31	70	0.921	A BB	113199.	20.000	NG	1.20
72	252	2090	34:50	70	0.957	A BV	92279.	20.000	NG	1.20
73	252	2095	34:55	70	0.959	A VB	88877.	20.000	NG	1.20
74	252	2168	36:08	70	0.993	A BV	84914.	20.000	NG	1.20
75	276	2528	42:08	70	1.158	A BV	66797.	20.000	NG	1.20
76	278	2538	42:18	70	1.162	A BB	66618.	20.000	NG	1.20
77	276	2633	43:53	70	1.206	A BB	67213.	20.000	NG	1.20

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:17	1.00	1.122	1.00	20.00	20.00	1.220	1.220	1.00
52	21:24	1.00	1.183	1.00	20.00	20.00	0.673	0.673	1.00
53	21:48	1.00	1.206	1.00	20.00	20.00	0.925	0.925	1.00
54	16:00	1.00	0.885	1.00	20.00	20.00	1.316	1.316	1.00
55	22:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:25	1.00	0.983	1.00	20.00	20.00	0.178	0.178	1.00
57	22:53	1.00	1.004	1.00	20.00	20.00	1.168	1.168	1.00
58	23:01	1.00	1.010	1.00	20.00	20.00	1.173	1.173	1.00
59	25:00	1.00	1.096	1.00	20.00	20.00	1.673	1.673	1.00
60	26:45	1.00	1.173	1.00	20.00	20.00	1.459	1.459	1.00
61	27:28	1.00	0.874	1.00	20.00	20.00	1.218	1.218	1.00
62	20:39	1.00	1.142	1.00	20.00	20.00	0.415	0.415	1.00
63	31:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:51	1.00	0.950	1.00	20.00	20.00	0.572	0.572	1.00
65	31:22	1.00	0.998	1.00	20.00	20.00	1.098	1.098	1.00
66	31:30	1.00	1.002	1.00	20.00	20.00	0.935	0.935	1.00
67	31:24	1.00	0.999	1.00	20.00	20.00	0.400	0.400	1.00
68	31:42	1.00	1.008	1.00	20.00	20.00	0.843	0.843	1.00
69	28:04	1.00	0.893	1.00	20.00	20.00	0.914	0.914	1.00
70	36:24	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:31	1.00	0.921	1.00	20.00	20.00	1.420	1.420	1.00
72	34:50	1.00	0.957	1.00	20.00	20.00	1.157	1.157	1.00
73	34:55	1.00	0.959	1.00	20.00	20.00	1.115	1.115	1.00
74	36:08	1.00	0.993	1.00	20.00	20.00	1.065	1.065	1.00
75	42:08	1.00	1.158	1.00	20.00	20.00	0.838	0.838	1.00
76	42:18	1.00	1.162	1.00	20.00	20.00	0.836	0.836	1.00
77	43:53	1.00	1.206	1.00	20.00	20.00	0.843	0.843	1.00

ORIGINAL (Red)

RIC DATA: T2624 #1 SCANS 250 TO 1125
05/16/90 17:01:00 CALI: T2624 #2
SAMPLE: CLP,,,SSTD50,,,22653,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 5

100402

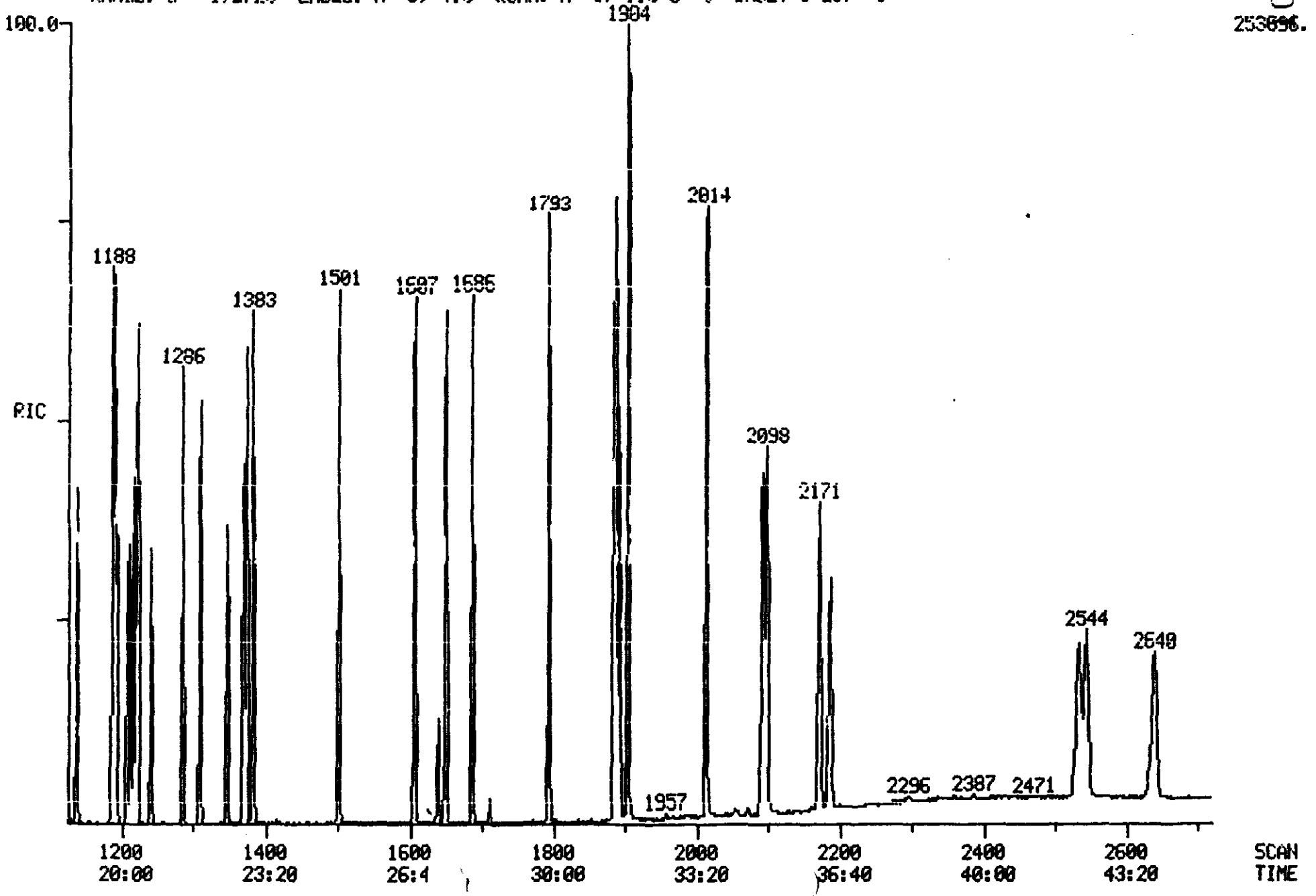


ORIGINAL (Red)

RIC
05/16/90 17:01:00
SAMPLE: CLP,,,SSTD50,,,22659,B,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2624 #1
CALI: T2624 #2

SCANS 1125 TO 2720



00403

Quantitation Report File: T2624

ORIGINAL (Red)

Data: T2624.TI
05/16/90 17:01:00
Sample: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ____

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD. #2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD. #3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	534	8:54	1	1.000	A BB	21230.	40.000	NG/UL	1.06
2	128	507	8:27	1	0.949	A BB	36608.	50.000	NG.	1.32
3	94	490	8:10	1	0.918	A BB	54898.	50.000	NG.	1.32
4	93	503	8:23	1	0.942	A VB	44653.	50.000	NG	1.32
5	146	528	8:48	1	0.989	A BB	38980.	50.000	NG	1.32
6	146	537	8:57	1	1.006	A BB	41589.	50.000	NG.	1.32
7	146	567	9:27	1	1.062	A BB	38083.	50.000	NG	1.32
8	108	563	9:23	1	1.054	A BB	26892.	50.000	NG	1.32
9	45	589	9:49	1	1.103	A BB	98374.	50.000	NG	1.32
10	108	585	9:45	1	1.096	A BB	39070.	50.000	NG	1.32
11	117	616	10:16	1	1.154	A BB	22445.	50.000	NG	1.32
12	108	610	10:10	1	1.142	A BB	40529.	50.000	NG	1.32
13	70	614	10:14	1	1.150	A BB	37430.	50.000	NG.	1.32
14	112	354	5:54	1	0.663	A BB	33295.	50.000	NG*A1	1.32
15	99	488	8:08	1	0.914	A BB	47962.	50.000	NG*A2	1.32
16	136	754	12:34	16	1.000	A BB	67127.	40.000	NG/UL	1.06
17	77	637	10:37	16	0.845	A BB	58903.	50.000	NG	1.32
18	82	676	11:16	16	0.897	A BB	104361.	50.000	NG	1.32
19	139	692	11:32	16	0.918	A BB	21051.	50.000	NG	1.32
20	107	701	11:41	16	0.930	A BB	42947.	50.000	NG	1.32
21	93	721	12:01	16	0.956	A BB	63230.	50.000	NG	1.32
22	162	732	12:12	16	0.971	A BB	31544.	50.000	NG	1.32
23	180	747	12:27	16	0.991	A BB	32481.	50.000	NG.	1.32
24	128	758	12:38	16	1.005	A BB	116499.	50.000	NG	1.32
25	122	722	12:02	16	0.958	A BB	15668.	50.000	NG	1.32
26	127	776	12:56	16	1.029	A BB	52086.	50.000	NG	1.32
27	225	790	13:10	16	1.049	A BB	23783.	50.000	NG	1.32
28	107	866	14:26	16	1.149	A BB	40916.	50.000	NG.	1.32
29	142	885	14:45	16	1.174	A BB	69896.	50.000	NG	1.32
30	82	634	10:34	16	0.841	A BB	55416.	50.000	NG*B1	1.32
31	164	1086	18:06	31	1.000	A BB	45485.	40.000	NG/UL	1.06
32	237	927	15:27	31	0.854	A BB	29154.	50.000	NG	1.32
33	196	945	15:45	31	0.870	A BV	22277.	50.000	NG	1.32
34	196	951	15:51	31	0.876	A VB	24109.	50.000	NG	1.32
35	162	977	16:17	31	0.900	A BB	70415.	50.000	NG	1.32
36	65	1008	16:48	31	0.928	A BB	48677.	50.000	NG	1.32
37	152	1057	17:37	31	0.973	A BB	114817.	50.000	NG	1.32
38	163	1051	17:31	31	0.968	A BB	85537.	50.000	NG	1.32
39	165	1065	17:45	31	0.981	A BB	19682.	50.000	NG	1.32
40	153	1093	18:13	31	1.006	A BB	72228.	50.000	NG.	1.32
41	138	1089	18:09	31	1.003	A BB	25893.	50.000	NG	1.32
42	184	1108	18:28	31	1.020	A BB	12867.	50.000	NG	1.32
43	168	1123	18:43	31	1.034	A BB	108646.	50.000	NG	1.32
44	109	1123	18:43	31	1.034	A BB	24464.	50.000	NG.	1.32
45	165	1138	18:58	31	1.048	A BB	29278.	50.000	NG.	1.32
46	166	1189	19:49	31	1.095	A BB	88732.	50.000	NG	1.32
47	204	1192	19:52	31	1.098	A BB	47836.	50.000	NG	1.32
48	149	1187	19:47	31	1.093	A BB	104717.	50.000	NG	1.32
49	138	1209	20:09	31	1.113	A BB	26769.	50.000	NG	1.32
50	198	1214	20:14	31	1.118	A BB	20653.	50.000	NG	1.32

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:27	1.00	0.949	1.00	50.00	50.00	1.379	1.379	1.00
3	8:10	1.00	0.918	1.00	50.00	50.00	2.069	2.069	1.00
4	8:23	1.00	0.942	1.00	50.00	50.00	1.683	1.683	1.00
5	8:48	1.00	0.989	1.00	50.00	50.00	1.469	1.469	1.00
6	8:57	1.00	1.006	1.00	50.00	50.00	1.567	1.567	1.00
7	9:27	1.00	1.062	1.00	50.00	50.00	1.435	1.435	1.00
8	9:23	1.00	1.054	1.00	50.00	50.00	1.013	1.013	1.00
9	9:49	1.00	1.103	1.00	50.00	50.00	3.707	3.707	1.00
10	9:45	1.00	1.096	1.00	50.00	50.00	1.472	1.472	1.00
11	10:16	1.00	1.154	1.00	50.00	50.00	0.846	0.846	1.00
12	10:10	1.00	1.142	1.00	50.00	50.00	1.527	1.527	1.00
13	10:14	1.00	1.150	1.00	50.00	50.00	1.410	1.410	1.00
14	5:54	1.00	0.663	1.00	50.00	50.00	1.255	1.255	1.00
15	8:08	1.00	0.914	1.00	50.00	50.00	1.807	1.807	1.00
16	12:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:37	1.00	0.845	1.00	50.00	50.00	0.702	0.702	1.00
18	11:16	1.00	0.897	1.00	50.00	50.00	1.244	1.244	1.00
9	11:32	1.00	0.918	1.00	50.00	50.00	0.251	0.251	1.00
20	11:41	1.00	0.930	1.00	50.00	50.00	0.512	0.512	1.00
21	12:01	1.00	0.956	1.00	50.00	50.00	0.754	0.754	1.00
22	12:12	1.00	0.971	1.00	50.00	50.00	0.376	0.376	1.00
23	12:27	1.00	0.991	1.00	50.00	50.00	0.387	0 387	1.00
24	12:38	1.00	1.005	1.00	50.00	50.00	1.388	1.388	1.00
25	12:02	1.00	0.958	1.00	50.00	50.00	0.187	0.187	1.00
26	12:56	1.00	1.029	1.00	50.00	50.00	0.621	0.621	1.00
27	13:10	1.00	1.048	1.00	50.00	50.00	0.283	0.283	1.00
28	14:26	1.00	1.149	1.00	50.00	50.00	0.488	0.488	1.00
29	14:45	1.00	1.174	1.00	50.00	50.00	0.833	0.833	1.00
30	10:34	1.00	0.841	1.00	50.00	50.00	0.660	0.660	1.00
31	18:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:27	1.00	0.854	1.00	50.00	50.00	0.513	0.513	1.00
33	15:45	1.00	0.870	1.00	50.00	50.00	0.392	0.392	1.00
34	15:51	1.00	0.876	1.00	50.00	50.00	0.424	0.424	1.00
35	16:17	1.00	0.900	1.00	50.00	50.00	1.238	1.238	1.00
36	16:48	1.00	0.928	1.00	50.00	50.00	0.856	0.856	1.00
37	17:37	1.00	0.973	1.00	50.00	50.00	2.019	2.019	1.00
38	17:31	1.00	0.968	1.00	50.00	50.00	1.504	1.504	1.00
39	17:45	1.00	0.981	1.00	50.00	50.00	0.346	0.316	1.00
40	18:13	1.00	1.006	1.00	50.00	50.00	1.270	1.270	1.00
41	18:09	1.00	1.003	1.00	50.00	50.00	0.455	0.455	1.00
42	18:28	1.00	1.020	1.00	50.00	50.00	0.226	0.226	1.00
43	18:43	1.00	1.034	1.00	50.00	50.00	1.911	1.911	1.00
44	18:43	1.00	1.034	1.00	50.00	50.00	0.430	0.430	1.00
45	18:58	1.00	1.048	1.00	50.00	50.00	0.515	0.515	1.00
46	19:49	1.00	1.095	1.00	50.00	50.00	1.561	1.561	1.00
47	19:52	1.00	1.098	1.00	50.00	50.00	0.841	0.841	1.00
48	19:47	1.00	1.093	1.00	50.00	50.00	1.842	1.842	1.00
49	20:09	1.00	1.113	1.00	50.00	50.00	0.471	0.471	1.00
50	20:14	1.00	1.118	1.00	50.00	50.00	0.363	0.363	1.00

100406

Quantitation Report File: T2624

ORIGINAL
(Red)

Data: T2624.TI
5/16/90 17:01:00
Sample: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ____

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1219	20:19	31	1.122	A BB	66193.	50.000 NG	1.32
52	248	1286	21:26	31	1.184	A BB	38270.	50.000 NG	1.32
53	284	1310	21:50	31	1.206	A BB	51119.	50.000 NG	1.32
54	172	961	16:01	31	0.885	A BB	75617.	50.000 NG*B2	1.32
55	188	1370	22:50	55	1.000	A BV	109533.	40.000 NG/UL	1.06
56	266	1347	22:27	55	0.983	A BB	29553.	50.000 NG.	1.32
57	178	1374	22:54	55	1.003	A BV	147008.	50.000 NG	1.32
58	178	1383	23:03	55	1.009	A VB	150695.	50.000 NG	1.32
59	149	1501	25:01	55	1.096	A BB	196999.	50.000 NG	1.32
60	202	1607	26:47	55	1.173	A BB	192155.	50.000 NG	1.32
61	202	1650	27:30	63	0.874	A BB	199171.	50.000 NG.	1.32
62	330	1240	20:40	31	1.142	A BB	25060.	50.000 NG*A3	1.32
63	240	1887	31:27	63	1.000	A BB	129519.	40.000 NG/UL	1.06
64	149	1793	29:53	63	0.950	A BB	96760.	50.000 NG	1.32
65	228	1884	31:24	63	0.998	A BV	165129.	50.000 NG	1.32
66	228	1892	31:32	63	1.003	A VB	130732.	50.000 NG	1.32

100407

ORIGINAL
(Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tol
67	252	1886	31:26	63	0.999	A BB	52799.	50.000	NG	1.32
68	149	1904	31:44	63	1.009	A BB	135627.	50.000	NG	1.32
69	244	1686	28:06	63	0.893	A BB	153106.	50.000	NG*B3	1.32
70	264	2186	36:26	70	1.000	A BB	121131.	40.000	NG/UL	1.06
71	149	2013	33:33	70	0.921	A BB	217608.	50.000	NG	1.32
72	252	2093	34:53	70	0.957	A BV	175044.	50.000	NG	1.32
73	252	2098	34:58	70	0.960	A VB	164422.	50.000	NG	1.32
74	252	2171	36:11	70	0.993	A BV	166670.	50.000	NG	1.32
75	276	2533	42:13	70	1.159	A BV	132613.	50.000	NG	1.32
76	278	2544	42:24	70	1.164	A BB	125799.	50.000	NG	1.32
77	276	2640	44:00	70	1.208	A BB	135361.	50.000	NG	1.32

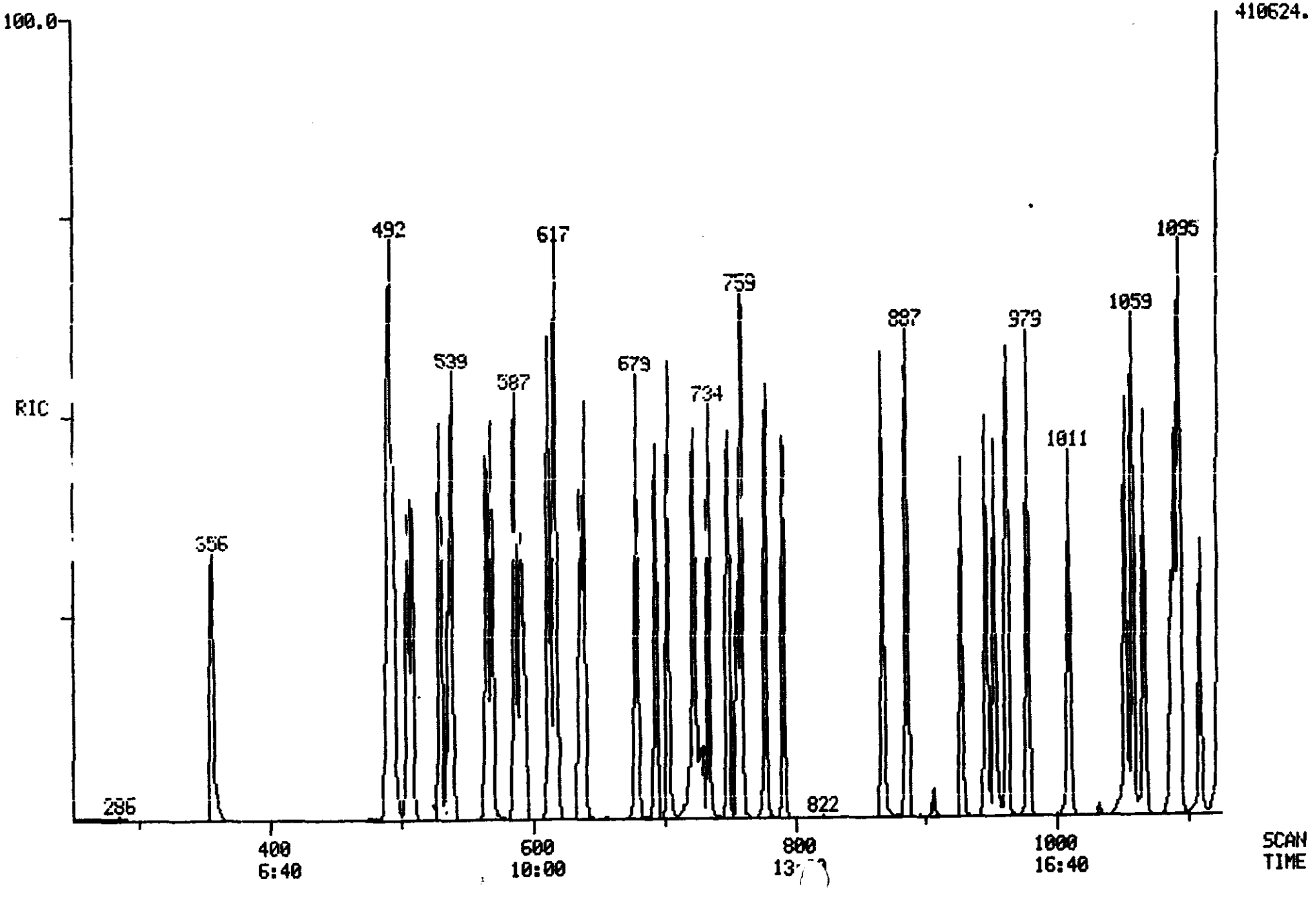
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:19	1.00	1.122	1.00	50.00	50.00	1.164	1.164	1.00
52	21:26	1.00	1.184	1.00	50.00	50.00	0.673	0.673	1.00
53	21:50	1.00	1.206	1.00	50.00	50.00	0.899	0.899	1.00
54	16:01	1.00	0.885	1.00	50.00	50.00	1.330	1.330	1.00
55	22:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	22:27	1.00	0.983	1.00	50.00	50.00	0.216	0.216	1.00
57	22:54	1.00	1.003	1.00	50.00	50.00	1.074	1.074	1.00
58	23:03	1.00	1.009	1.00	50.00	50.00	1.101	1.101	1.00
59	25:01	1.00	1.096	1.00	50.00	50.00	1.439	1.439	1.00
60	26:47	1.00	1.173	1.00	50.00	50.00	1.403	1.403	1.00
61	27:30	1.00	0.874	1.00	50.00	50.00	1.230	1.230	1.00
62	20:40	1.00	1.142	1.00	50.00	50.00	0.441	0.441	1.00
63	31:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:53	1.00	0.950	1.00	50.00	50.00	0.598	0.598	1.00
65	31:24	1.00	0.998	1.00	50.00	50.00	1.020	1.020	1.00
66	31:32	1.00	1.003	1.00	50.00	50.00	0.807	0.807	1.00
67	31:26	1.00	0.999	1.00	50.00	50.00	0.326	0.326	1.00
68	31:44	1.00	1.009	1.00	50.00	50.00	0.838	0.838	1.00
69	28:06	1.00	0.893	1.00	50.00	50.00	0.946	0.946	1.00
70	36:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:33	1.00	0.921	1.00	50.00	50.00	1.437	1.437	1.00
72	34:53	1.00	0.957	1.00	50.00	50.00	1.156	1.156	1.00
73	34:58	1.00	0.960	1.00	50.00	50.00	1.086	1.086	1.00
74	36:11	1.00	0.993	1.00	50.00	50.00	1.101	1.101	1.00
75	42:13	1.00	1.159	1.00	50.00	50.00	0.876	0.876	1.00
76	42:24	1.00	1.164	1.00	50.00	50.00	0.831	0.831	1.00
77	44:00	1.00	1.208	1.00	50.00	50.00	0.894	0 894	1.00

ORIGINAL (Red)

RIC
05/16/90 20:23:00
SAMPLE: CLP,,,SSTD80,,22661,G,IC80,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30@28C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2627 #1
CALI: T2627 #2

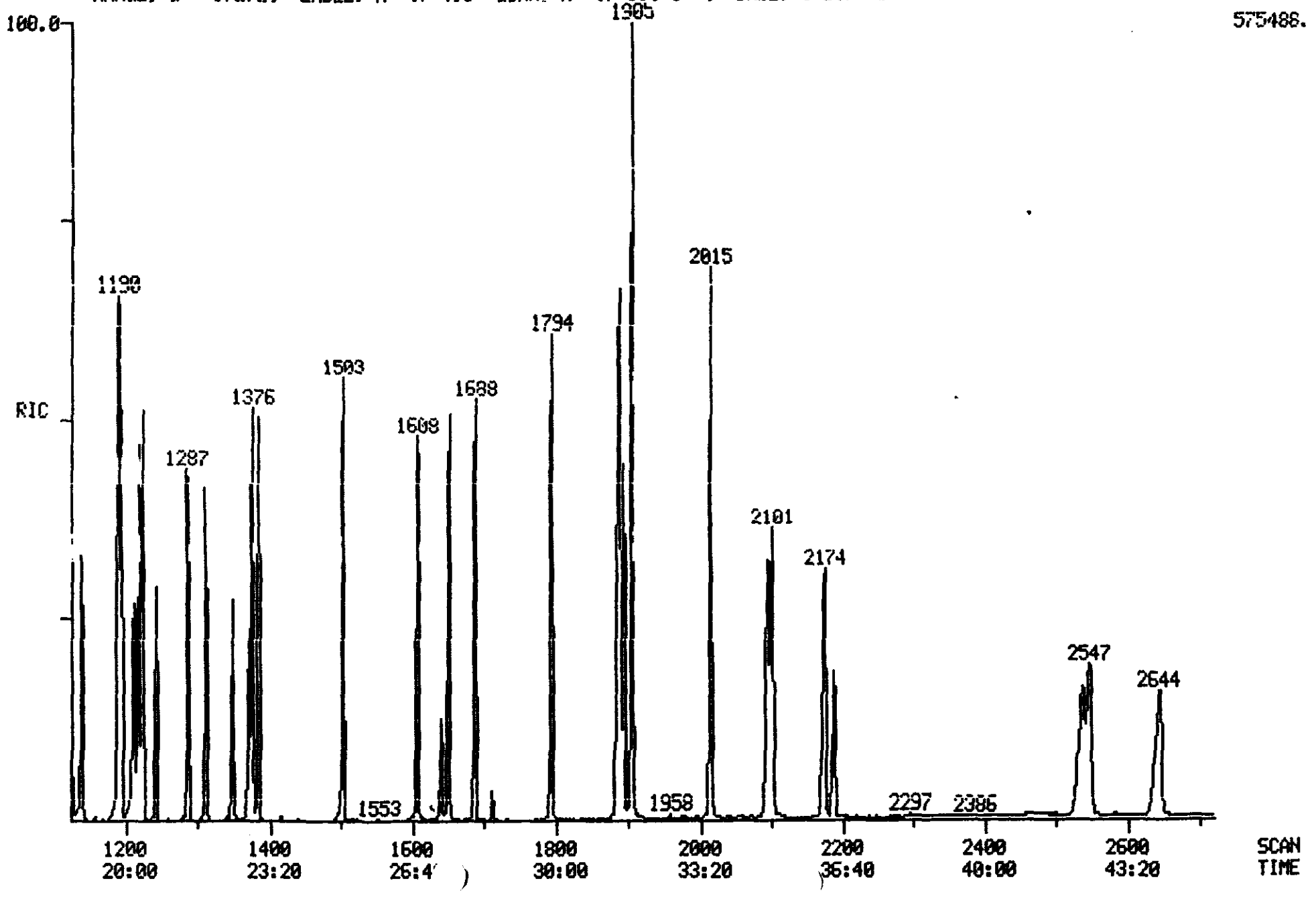
SCANS 250 TO 1125



00409

ORIGINAL (Red)

RIC DATA: T2627 #1 SCANS 1125 TO 2720
05/16/90 20:23:00 CALI: T2627 #2
SAMPLE: CLP,,,SSTD80,,22661,B,IC80,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



100410

Quantitation Report File: T2627

ORIGINAL
(Red)

Data: T2627.TI
05/16/90 20:23:00
Sample: CLP,,,SSTD80,,22661,B,IC80,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	536	8:56	1	1.000	A BB	28730.	40.000	NG/UL	0.68
2	128	508	8:28	1	0.948	A BB	81021.	80.000	NG.	1.35
3	94	492	8:12	1	0.918	A BV	125178.	80.000	NG.	1.35
4	93	505	8:25	1	0.942	A VB	100113.	80.000	NG	1.35
5	146	530	8:50	1	0.989	A BB	87500.	80.000	NG	1.35
6	146	539	8:59	1	1.006	A BB	91880.	80.000	NG.	1.35
7	146	569	9:29	1	1.062	A BB	83741.	80.000	NG	1.35
8	108	565	9:25	1	1.054	A BB	60432.	80.000	NG	1.35
9	45	591	9:51	1	1.103	A BB	214971.	80.000	NG	1.35
10	108	587	9:47	1	1.095	A BB	84690.	80.000	NG	1.35
11	117	618	10:18	1	1.153	A BB	48478.	80.000	NG	1.35
12	108	612	10:12	1	1.142	A BB	87049.	80.000	NG	1.35
13	,70	616	10:16	1	1.149	A BB	87465.	80.000	NG.	1.35
4	112	355	5:55	1	0.662	A BB	75369.	80.000	NG*A1	1.35
15	99	490	8:10	1	0.914	A BB	105641.	80.000	NG*A2	1.35
16	136	756	12:36	16	1.000	A BB	88990.	40.000	NG/UL	0.68
17	77	639	10:39	16	0.845	A BB	130935.	80.000	NG	1.35
18	82	679	11:19	16	0.898	A BB	237612.	80.000	NG	1.35
19	139	694	11:34	16	0.918	A BB	46040.	80.000	NG	1.35
20	107	703	11:43	16	0.930	A BB	95778.	80.000	NG	1.35
21	93	723	12:03	16	0.956	A BB	136469.	80.000	NG	1.35
22	162	734	12:14	16	0.971	A BB	69392.	80.000	NG	1.35
23	180	748	12:28	16	0.989	A BB	70299.	80.000	NG.	1.35
24	128	759	12:39	16	1.004	A BB	248043.	80.000	NG	1.35
25	122	729	12:09	16	0.964	A VB	43608.	80.000	NG	1.35
26	127	778	12:58	16	1.029	A BB	111879.	80.000	NG	1.35
27	225	791	13:11	16	1.046	A BB	49196.	80.000	NG	1.35
28	107	868	14:28	16	1.148	A BB	90418.	80.000	NG.	1.35
29	142	887	14:47	16	1.173	A BB	151623.	80.000	NG	1.35
30	82	636	10:36	16	0.841	A BB	125837.	80.000	NG*B1	1.35
31	164	1088	18:08	31	1.000	A BB	59320.	40.000	NG/UL	0.68
32	237	928	15:28	31	0.853	A BB	59967.	80.000	NG	1.35
33	196	947	15:47	31	0.870	A BV	49582.	80.000	NG	1.35
34	196	953	15:53	31	0.876	A VB	51714.	80.000	NG	1.35
35	162	979	16:19	31	0.900	A BB	151357.	80.000	NG	1.35
36	65	1011	16:51	31	0.929	A BB	105384.	80.000	NG	1.35
37	152	1059	17:39	31	0.973	A BB	247408.	80.000	NG	1.35
38	163	1053	17:33	31	0.968	A BB	186418.	80.000	NG	1.35
39	165	1067	17:47	31	0.981	A BB	44285.	80.000	NG	1.35
40	153	1095	18:15	31	1.006	A BB	155074.	80.000	NG.	1.35
41	138	1091	18:11	31	1.003	A BB	58242.	80.000	NG	1.35
42	184	1110	18:30	31	1.020	A BB	29745.	80.000	NG	1.35
43	168	1125	18:45	31	1.034	A BB	229373.	80.000	NG	1.35
44	109	1125	18:45	31	1.034	A BV	52839.	80.000	NG.	1.35
45	165	1140	19:00	31	1.048	A BB	61906.	80.000	NG.	1.35
46	166	1191	19:51	31	1.095	A BB	195146.	80.000	NG	1.35
47	204	1194	19:54	31	1.097	A BB	96971.	80.000	NG	1.35
48	149	1189	19:49	31	1.093	A BB	236527.	80.000	NG	1.35
49	138	1212	20:12	31	1.114	A BV	56364.	80.000	NG	1.35
50	198	1216	20:16	31	1.118	A BB	42187.	80.000	NG	1.35

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:28	1.00	0.948	1.00	80.00	80.00	1.410	1.410	1.00
3	8:12	1.00	0.918	1.00	80.00	80.00	2.179	2.179	1.00
4	8:25	1.00	0.942	1.00	80.00	80.00	1.742	1.742	1.00
5	8:50	1.00	0.989	1.00	80.00	80.00	1.523	1.523	1.00
6	8:59	1.00	1.006	1.00	80.00	80.00	1.599	1.599	1.00
7	9:29	1.00	1.062	1.00	80.00	80.00	1.457	1.457	1.00
8	9:25	1.00	1.054	1.00	80.00	80.00	1.052	1.052	1.00
9	9:51	1.00	1.103	1.00	80.00	80.00	3.741	3.741	1.00
10	9:47	1.00	1.095	1.00	80.00	80.00	1.474	1.474	1.00
11	10:18	1.00	1.153	1.00	80.00	80.00	0.844	0.844	1.00
12	10:12	1.00	1.142	1.00	80.00	80.00	1.515	1.515	1.00
13	10:16	1.00	1.149	1.00	80.00	80.00	1.522	1.522	1.00
14	5:55	1.00	0.662	1.00	80.00	80.00	1.312	1.312	1.00
15	8:10	1.00	0.914	1.00	80.00	80.00	1.839	1.839	1.00
16	12:36	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:39	1.00	0.845	1.00	80.00	80.00	0.736	0.736	1.00
18	11:19	1.00	0.898	1.00	80.00	80.00	1.335	1.335	1.00
19	11:34	1.00	0.918	1.00	80.00	80.00	0.259	0.259	1.00
20	11:43	1.00	0.930	1.00	80.00	80.00	0.538	0.538	1.00
21	12:03	1.00	0.956	1.00	80.00	80.00	0.767	0.767	1.00
22	12:14	1.00	0.971	1.00	80.00	80.00	0.390	0.390	1.00
23	12:28	1.00	0.989	1.00	80.00	80.00	0.395	0.395	1.00
24	12:39	1.00	1.004	1.00	80.00	80.00	1.394	1.394	1.00
25	12:09	1.00	0.964	1.00	80.00	80.00	0.245	0.245	1.00
26	12:58	1.00	1.029	1.00	80.00	80.00	0.629	0.629	1.00
27	13:11	1.00	1.046	1.00	80.00	80.00	0.276	0.276	1.00
28	14:28	1.00	1.148	1.00	80.00	80.00	0.508	0.508	1.00
29	14:47	1.00	1.173	1.00	80.00	80.00	0.852	0.852	1.00
30	10:36	1.00	0.841	1.00	80.00	80.00	0.707	0.707	1.00
31	18:08	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:28	1.00	0.853	1.00	80.00	80.00	0.505	0.505	1.00
33	15:47	1.00	0.870	1.00	80.00	80.00	0.418	0.418	1.00
34	15:53	1.00	0.876	1.00	80.00	80.00	0.436	0.436	1.00
35	16:19	1.00	0.900	1.00	80.00	80.00	1.276	1.276	1.00
36	16:51	1.00	0.929	1.00	80.00	80.00	0.888	0.888	1.00
37	17:39	1.00	0.973	1.00	80.00	80.00	2.085	2.085	1.00
38	17:33	1.00	0.968	1.00	80.00	80.00	1.571	1.571	1.00
39	17:47	1.00	0.981	1.00	80.00	80.00	0.373	0.373	1.00
40	18:15	1.00	1.006	1.00	80.00	80.00	1.307	1.307	1.00
41	18:11	1.00	1.003	1.00	80.00	80.00	0.491	0.491	1.00
42	18:30	1.00	1.020	1.00	80.00	80.00	0.251	0.251	1.00
43	18:45	1.00	1.034	1.00	80.00	80.00	1.933	1.933	1.00
44	18:45	1.00	1.034	1.00	80.00	80.00	0.445	0.445	1.00
45	19:00	1.00	1.048	1.00	80.00	80.00	0.522	0.522	1.00
46	19:51	1.00	1.095	1.00	80.00	80.00	1.645	1.645	1.00
47	19:54	1.00	1.097	1.00	80.00	80.00	0.817	0.817	1.00
48	19:49	1.00	1.093	1.00	80.00	80.00	1.994	1.994	1.00
49	20:12	1.00	1.114	1.00	80.00	80.00	0.475	0.475	1.00
50	20:16	1.00	1.118	1.00	80.00	80.00	0.356	0.356	1.00

Quantitation Report File: T2627

ORIGINAL (Red)

Data: T2627.TI
5/16/90 20:23:00
Sample: CLP,,,SSTD80,,22661,B,IC80,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1221	20:21	31	1.122	A BB	137182.	80.000 NG	1.35
52	248	1287	21:27	31	1.183	A BB	75917.	80.000 NG	1.35
53	284	1311	21:51	31	1.205	A BB	97632.	80.000 NG	1.35
54	172	963	16:03	31	0.885	A BB	160127.	80.000 NG*B2	1.35
55	188	1371	22:51	55	1.000	A BV	136430.	40.000 NG/UL	0.68
56	266	1348	22:28	55	0.983	A BB	56853.	80.000 NG.	1.35
57	178	1376	22:56	55	1.004	A BV	302079.	80.000 NG	1.35
58	178	1385	23:05	55	1.010	A VB	292686.	80.000 NG	1.35
59	149	1503	25:03	55	1.096	A BB	368490.	80.000 NG	1.35
60	202	1608	26:48	55	1.173	A BB	355380.	80.000 NG	1.35
61	202	1652	27:32	63	0.875	A BB	351222.	80.000 NG.	1.35
62	330	1242	20:42	31	1.142	A BB	51234.	80.000 NG*A3	1.35
63	240	1889	31:29	63	1.000	A BB	159758.	40.000 NG/UL	0.68
64	149	1794	29:54	63	0.950	A BB	192062.	80.000 NG	1.35
65	228	1885	31:25	63	0.998	A BV	312755.	80.000 NG	1.35
66	228	1894	31:34	63	1.003	A VB	243714.	80.000 NG	1.35

100414

Unknown (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	252	1888	31:28	63	0.999	A BB	104170.	80.000	NG	1.35
68	149	1905	31:45	63	1.008	A VB	262416.	80.000	NG	1.35
69	244	1688	28:08	63	0.894	A BB	269906.	80.000	NG+B3	1.35
70	264	2188	36:28	70	1.000	A VB	165988.	40.000	NG/UL	0.68
71	149	2014	33:34	70	0.920	A BB	411882.	80.000	NG	1.35
72	252	2094	34:54	70	0.957	A BV	357622.	80.000	NG	1.35
73	252	2101	35:01	70	0.960	A VB	310446.	80.000	NG	1.35
74	252	2174	36:14	70	0.994	A BV	337763.	80.000	NG	1.35
75	276	2537	42:17	70	1.160	A BV	312517.	80.000	NG	1.35
76	278	2547	42:27	70	1.164	A BB	288610.	80.000	NG	1.35
77	276	2644	44:04	70	1.208	A BB	296857.	80.000	NG	1.35

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:21	1.00	1.122	1.00	80.00	80.00	1.156	1 156	1.00
52	21:27	1.00	1.183	1.00	80.00	80.00	0.640	0.640	1.00
53	21:51	1.00	1.205	1.00	80.00	80.00	0.823	0.823	1.00
54	16:03	1.00	0.885	1.00	80.00	80.00	1.350	1.350	1.00
55	22:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:28	1.00	0.983	1.00	80.00	80.00	0.208	0.208	1.00
57	22:56	1.00	1.004	1.00	80.00	80.00	1.107	1.107	1.00
58	23:05	1.00	1.010	1.00	80.00	80.00	1.073	1.073	1.00
59	25:03	1.00	1.096	1.00	80.00	80.00	1.350	1.350	1.00
60	26:48	1.00	1.173	1.00	80.00	80.00	1.302	1.302	1.00
61	27:32	1.00	0.875	1.00	80.00	80.00	1.099	1.099	1.00
62	20:42	1.00	1.142	1.00	80.00	80.00	0.432	0.432	1.00
63	31:29	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:54	1.00	0.950	1.00	80.00	80.00	0.601	0.601	1.00
65	31:25	1.00	0.998	1.00	80.00	80.00	0.979	0.979	1.00
66	31:34	1.00	1.003	1.00	80.00	80.00	0.763	0.763	1.00
67	31:28	1.00	0.999	1.00	80.00	80.00	0.326	0.326	1.00
68	31:45	1.00	1.008	1.00	80.00	80.00	0.821	0.821	1.00
69	28:08	1.00	0.894	1.00	80.00	80.00	0.845	0.845	1.00
70	36:28	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:34	1.00	0.920	1.00	80.00	80.00	1.241	1.241	1.00
72	34:54	1.00	0.957	1.00	80.00	80.00	1.077	1.077	1.00
73	35:01	1.00	0.960	1.00	80.00	80.00	0.935	0.935	1.00
74	36:14	1.00	0.994	1.00	80.00	80.00	1.017	1.017	1.00
75	42:17	1.00	1.160	1.00	80.00	80.00	0.941	0.941	1.00
76	42:27	1.00	1.164	1.00	80.00	80.00	0.869	0 869	1.00
77	44:04	1.00	1.208	1.00	80.00	80.00	0.894	0.894	1.00

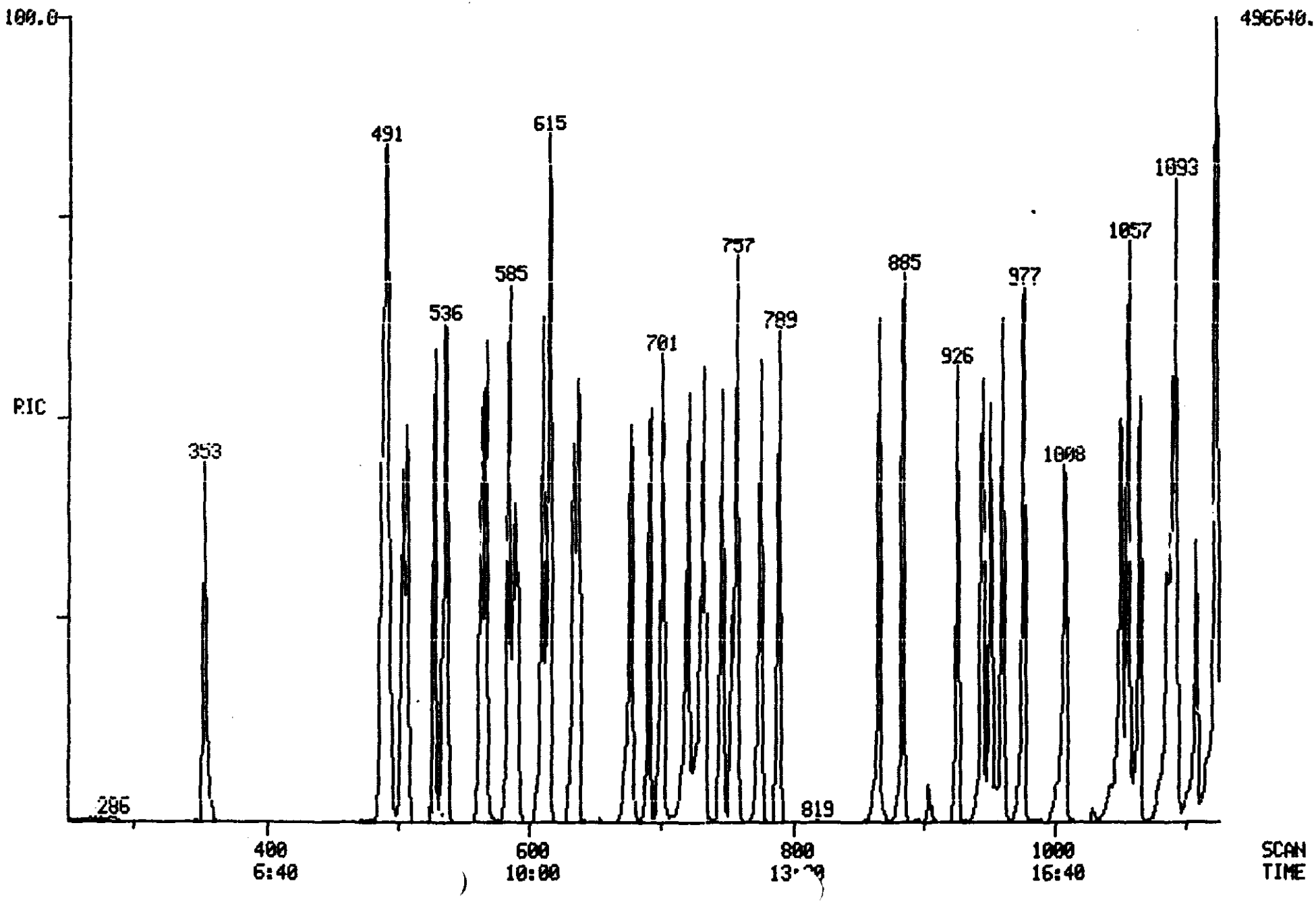
ORIGINAL (Red)

RIC
05/16/90 19:09:00
SAMPLE: CLP,,,SSTD120,,,22739,P,IC120,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2626 #1
CALI: T2626 #2

SCANS 250 TO 1125

100416



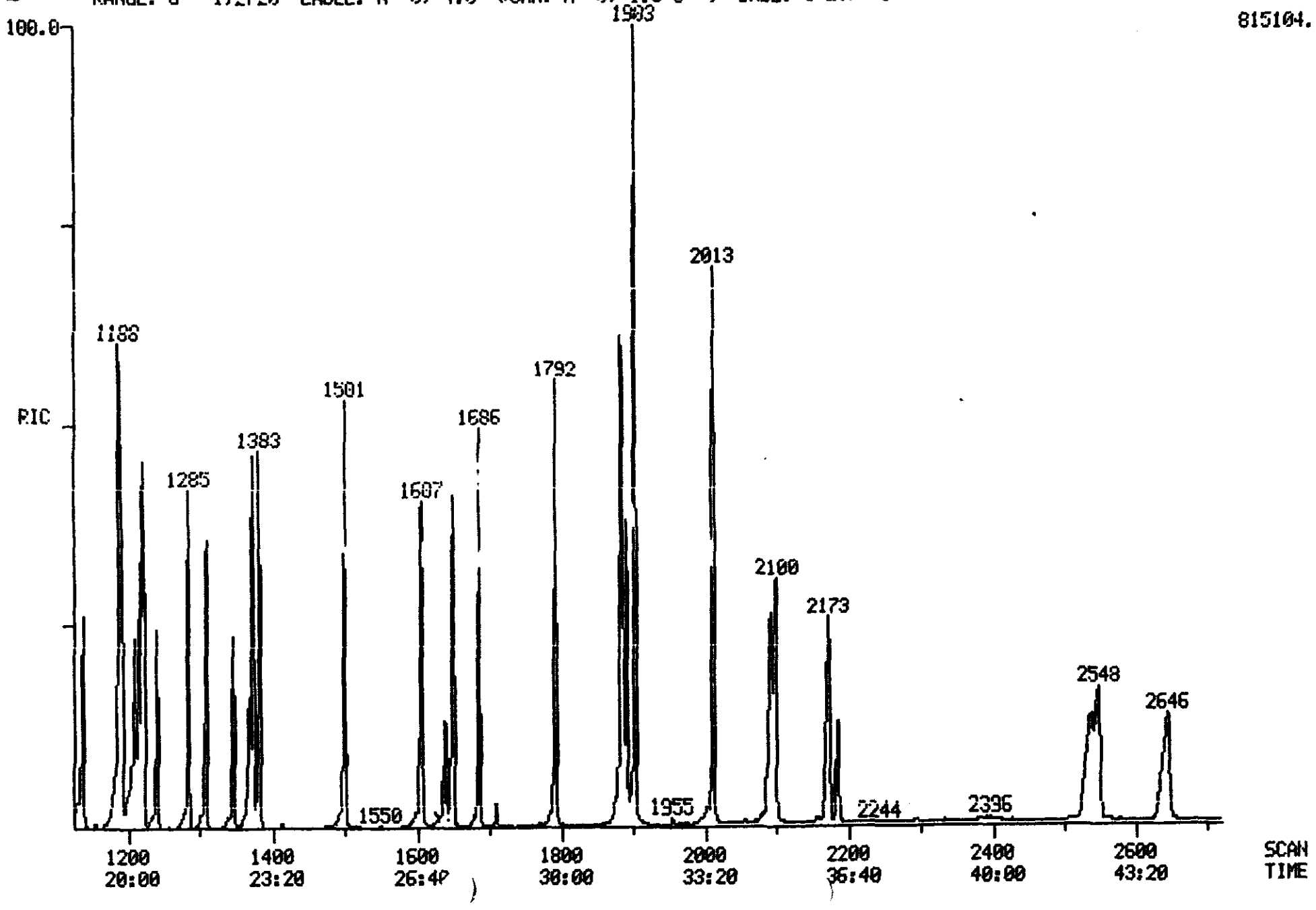
ORIGINAL (Red)

RIC
05/16/90 19:09:00
SAMPLE: CLP,,,SSTD120,,,22729,P,IC120,,1UL,
CONDS.· INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 2

DATA: T2626 #1
CALI: T2626 #2

SCANS 1125 TO 2720

100417



Quantitation Report File: T2626

ORIGINAL (Red)

Data: T2626.TI
5/16/90 19:09:00
Sample: CLP,,,SSTD120,,,22739,B,IC120,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	534	8:54	1	1.000	A BB	29943.	40.000	NG/UL	0.46
2	128	506	8:26	1	0.948	A BB	123201.	120.000	NG.	1.37
3	94	490	8:10	1	0.918	A BV	188151.	120.000	NG.	1.37
4	93	503	8:23	1	0.942	A VB	154995.	120.000	NG	1.37
5	146	528	8:48	1	0.989	A BV	129380.	120.000	NG	1.37
6	146	536	8:56	1	1.004	A VB	135956.	120.000	NG.	1.37
7	146	567	9:27	1	1.062	A BB	124606.	120.000	NG	1.37
8	108	563	9:23	1	1.054	A BB	90109.	120.000	NG	1.37
9	45	589	9:49	1	1.103	A BB	311837.	120.000	NG	1.37
10	108	585	9:45	1	1.096	A BB	126872.	120.000	NG	1.37
11	117	615	10:15	1	1.152	A BB	71231.	120.000	NG	1.37
12	108	610	10:10	1	1.142	A BB	132514.	120.000	NG	1.37
13	70	615	10:15	1	1.152	A BB	137456.	120.000	NG.	1.37
14	112	353	5:53	1	0.661	A BB	121617.	120.000	NG*A1	1.37
15	99	488	8:08	1	0.914	A BB	163279.	120.000	NG*A2	1.37
16	136	753	12:33	16	1.000	A BB	90925.	40.000	NG/UL	0.46
17	77	637	10:37	16	0.846	A BB	199281.	120.000	NG	1.37
18	82	677	11:17	16	0.899	A BB	345890.	120.000	NG	1.37
19	139	691	11:31	16	0.918	A BB	68438.	120.000	NG	1.37
20	107	701	11:41	16	0.931	A BB	147417.	120.000	NG	1.37
21	93	721	12:01	16	0.959	A BB	204010.	120.000	NG	1.37
22	162	732	12:12	16	0.972	A BB	101511.	120.000	NG	1.37
23	180	746	12:26	16	0.991	A BB	104452.	120.000	NG.	1.37
24	128	757	12:37	16	1.005	A BB	336486.	120.000	NG	1.37
25	122	729	12:09	16	0.968	A BB	47219.	120.000	NG	1.37
26	127	775	12:55	16	1.029	A BB	165954.	120.000	NG	1.37
27	225	789	13:09	16	1.048	A BB	70285.	120.000	NG	1.37
28	107	866	14:26	16	1.150	A BB	137539.	120.000	NG.	1.37
29	142	885	14:45	16	1.175	A BB	219988.	120.000	NG	1.37
30	82	634	10:34	16	0.842	A BB	189362.	120.000	NG*B1	1.37
31	164	1086	18:06	31	1.000	A BB	62201.	40.000	NG/UL	0.46
32	237	926	15:26	31	0.853	A BB	90840.	120.000	NG	1.37
33	196	945	15:45	31	0.870	A BV	77222.	120.000	NG	1.37
34	196	951	15:51	31	0.876	A VB	72286.	120.000	NG	1.37
35	162	976	16:16	31	0.899	A BB	224226.	120.000	NG	1.37
36	65	1008	16:48	31	0.928	A BB	160777.	120.000	NG	1.37
37	152	1057	17:37	31	0.973	A BB	351144.	120.000	NG	1.37
38	163	1051	17:31	31	0.968	A BB	270490.	120.000	NG	1.37
39	165	1065	17:45	31	0.981	A VB	64651.	120.000	NG	1.37
40	153	1093	18:13	31	1.006	A BB	226315.	120.000	NG.	1.37
41	138	1090	18:10	31	1.004	A BB	84193.	120.000	NG	1.37
42	184	1108	18:28	31	1.020	A BB	45734.	120.000	NG	1.37
43	168	1123	18:43	31	1.034	A VB	325122.	120.000	NG	1.37
44	109	1124	18:44	31	1.035	A BB	72760.	120.000	NG.	1.37
45	165	1138	18:58	31	1.048	A BB	91617.	120.000	NG.	1.37
46	166	1189	19:49	31	1.095	A BB	270056.	120.000	NG	1.37
47	204	1192	19:52	31	1.098	A BB	138579.	120.000	NG	1.37
48	149	1187	19:47	31	1.093	A BB	327940.	120.000	NG	1.37
49	138	1210	20:10	31	1.114	A BB	70783.	120.000	NG	1.37
50	198	1215	20:15	31	1.119	A VB	48262.	120.000	NG	1.37

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:26	1.00	0.948	1.00	120.00	120.00	1.372	1.372	1.00
3	8:10	1.00	0.918	1.00	120.00	120.00	2.095	2.095	1.00
4	8:23	1.00	0.942	1.00	120.00	120.00	1.725	1.725	1.00
5	8:48	1.00	0.989	1.00	120.00	120.00	1.440	1.440	1.00
6	8:56	1.00	1.004	1.00	120.00	120.00	1.513	1.513	1.00
7	9:27	1.00	1.062	1.00	120.00	120.00	1.387	1.387	1.00
8	9:23	1.00	1.054	1.00	120.00	120.00	1.003	1.003	1.00
9	9:49	1.00	1.103	1.00	120.00	120.00	3.471	3.471	1.00
10	9:45	1.00	1.096	1.00	120.00	120.00	1.412	1.412	1.00
11	10:15	1.00	1.152	1.00	120.00	120.00	0.793	0.793	1.00
12	10:10	1.00	1.142	1.00	120.00	120.00	1.475	1.475	1.00
13	10:15	1.00	1.152	1.00	120.00	120.00	1.530	1.530	1.00
14	5:53	1.00	0.661	1.00	120.00	120.00	1.354	1.354	1.00
15	8:08	1.00	0.914	1.00	120.00	120.00	1.818	1.818	1.00
16	12:33	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:37	1.00	0.846	1.00	120.00	120.00	0.731	0.731	1.00
18	11:17	1.00	0.899	1.00	120.00	120.00	1.268	1.268	1.00
19	11:31	1.00	0.918	1.00	120.00	120.00	0.251	0.251	1.00
20	11:41	1.00	0.931	1.00	120.00	120.00	0.540	0.540	1.00
21	12:01	1.00	0.958	1.00	120.00	120.00	0.748	0.748	1.00
22	12:12	1.00	0.972	1.00	120.00	120.00	0.372	0.372	1.00
23	12:26	1.00	0.991	1.00	120.00	120.00	0.383	0.383	1.00
24	12:37	1.00	1.005	1.00	120.00	120.00	1.234	1.234	1.00
25	12:09	1.00	0.968	1.00	120.00	120.00	0.173	0.173	1.00
26	12:55	1.00	1.029	1.00	120.00	120.00	0.608	0.608	1.00
27	13:09	1.00	1.048	1.00	120.00	120.00	0.258	0.258	1.00
28	14:26	1.00	1.150	1.00	120.00	120.00	0.504	0.504	1.00
29	14:45	1.00	1.175	1.00	120.00	120.00	0.806	0.806	1.00
30	10:34	1.00	0.842	1.00	120.00	120.00	0.694	0.694	1.00
31	18:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:26	1.00	0.853	1.00	120.00	120.00	0.487	0.487	1.00
33	15:45	1.00	0.870	1.00	120.00	120.00	0.414	0.414	1.00
34	15:51	1.00	0.876	1.00	120.00	120.00	0.387	0.387	1.00
35	16:16	1.00	0.899	1.00	120.00	120.00	1.202	1.202	1.00
36	16:48	1.00	0.928	1.00	120.00	120.00	0.862	0.862	1.00
37	17:37	1.00	0.973	1.00	120.00	120.00	1.882	1.882	1.00
38	17:31	1.00	0.968	1.00	120.00	120.00	1.450	1.450	1.00
39	17:45	1.00	0.981	1.00	120.00	120.00	0.346	0.346	1.00
40	18:13	1.00	1.006	1.00	120.00	120.00	1.213	1.213	1.00
41	18:10	1.00	1.004	1.00	120.00	120.00	0.451	0.451	1.00
42	18:28	1.00	1.020	1.00	120.00	120.00	0.245	0.245	1.00
43	18:43	1.00	1.034	1.00	120.00	120.00	1.742	1.742	1.00
44	18:44	1.00	1.035	1.00	120.00	120.00	0.390	0.390	1.00
45	18:58	1.00	1.048	1.00	120.00	120.00	0.491	0.491	1.00
46	19:49	1.00	1.095	1.00	120.00	120.00	1.447	1.447	1.00
47	19:52	1.00	1.098	1.00	120.00	120.00	0.743	0.743	1.00
48	19:47	1.00	1.093	1.00	120.00	120.00	1.757	1.757	1.00
49	20:10	1.00	1.114	1.00	120.00	120.00	0.379	0.379	1.00
50	20:15	1.00	1.119	1.00	120.00	120.00	0.259	0.259	1.00

Quantitation Report File: T2626

ORIGINAL (Red)

Data: T2626.TI
5/16/90 19:09:00
Sample: CLP,,,SSTD120,,,22739,B,IC120,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: - -

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
51	169	1219	20:19	31	1.122	A BB	198223.	120.000	NG	1.37
52	248	1285	21:25	31	1.183	A BB	105392.	120.000	NG	1.37
53	284	1309	21:49	31	1.205	A BB	128828.	120.000	NG	1.37
54	172	960	16:00	31	0.884	A BB	234079.	120.000	NG*B2	1.37
55	188	1369	22:49	55	1.000	A BB	132563.	40.000	NG/UL	0.46
56	266	1346	22:26	55	0.983	A BB	74392.	120.000	NG.	1.37
57	178	1374	22:54	55	1.004	A BV	418518.	120.000	NG	1.37
58	178	1383	23:03	55	1.010	A VB	359672.	120.000	NG	1.37
59	149	1500	25:00	55	1.096	A BB	516597.	120.000	NG	1.37
60	202	1606	26:46	55	1.173	A VB	412352.	120.000	NG	1.37
61	202	1650	27:30	63	0.874	A BB	457364.	120.000	NG.	1.37
62	330	1240	20:40	31	1.142	A BB	71726.	120.000	NG*A3	1.37
63	240	1887	31:27	63	1.000	A VB	139673.	40.000	NG/UL	0.46
64	149	1792	29:52	63	0.950	A BB	264712.	120.000	NG	1.37
65	228	1884	31:24	63	0.998	A BV	416676.	120.000	NG	1.37
66	228	1892	31:32	63	1.003	A VB	300022.	120.000	NG	1.37

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	252	1885	31:25	63	0.999	A VB	127397.	120.000	NG	1.37
68	149	1903	31:43	63	1.008	A BB	360522.	120.000	NG	1.37
69	244	1686	28:06	63	0.893	A BB	345213.	120.000	NG+B3	1.37
70	264	2186	36:26	70	1.000	A VB	165314.	40.000	NG/UL	0.46
71	149	2012	33:32	70	0.920	A BB	546486.	120.000	NG	1.37
72	252	2093	34:53	70	0.957	A BV	491527.	120.000	NG	1.37
73	252	2099	34:59	70	0.960	A VB	351996.	120.000	NG	1.37
74	252	2173	36:13	70	0.994	A VB	425484.	120.000	NG	1.37
75	276	2538	42:18	70	1.161	A BV	443432.	120.000	NG	1.37
76	278	2548	42:28	70	1.166	A BB	391524.	120.000	NG	1.37
77	276	2646	44:06	70	1.210	A BB	412106.	120.000	NG	1.37

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:19	1.00	1.122	1.00	120.00	120.00	1.062	1.062	1.00
52	21:25	1.00	1.183	1.00	120.00	120.00	0.565	0.565	1.00
53	21:49	1.00	1.205	1.00	120.00	120.00	0.690	0.690	1.00
54	16:00	1.00	0.884	1.00	120.00	120.00	1.254	1.254	1.00
55	22:49	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:26	1.00	0.983	1.00	120.00	120.00	0.187	0.187	1.00
57	22:54	1.00	1.004	1.00	120.00	120.00	1.052	1.052	1.00
58	23:03	1.00	1.010	1.00	120.00	120.00	0.904	0.904	1.00
59	25:00	1.00	1.096	1.00	120.00	120.00	1.299	1.299	1.00
60	26:46	1.00	1.173	1.00	120.00	120.00	1.037	1.037	1.00
61	27:30	1.00	0.874	1.00	120.00	120.00	1.092	1.092	1.00
62	20:40	1.00	1.142	1.00	120.00	120.00	0.384	0.384	1.00
63	31:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:52	1.00	0.950	1.00	120.00	120.00	0.632	0.632	1.00
65	31:24	1.00	0.998	1.00	120.00	120.00	0.994	0.994	1.00
66	31:32	1.00	1.003	1.00	120.00	120.00	0.716	0.716	1.00
67	31:25	1.00	0.999	1.00	120.00	120.00	0.304	0.304	1.00
68	31:43	1.00	1.008	1.00	120.00	120.00	0.860	0.860	1.00
69	28:06	1.00	0.893	1.00	120.00	120.00	0.824	0.824	1.00
70	36:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:32	1.00	0.920	1.00	120.00	120.00	1.102	1.102	1.00
72	34:53	1.00	0.957	1.00	120.00	120.00	0.991	0.991	1.00
73	34:59	1.00	0.960	1.00	120.00	120.00	0.710	0.710	1.00
74	36:13	1.00	0.994	1.00	120.00	120.00	0.858	0.858	1.00
75	42:18	1.00	1.161	1.00	120.00	120.00	0.894	0.894	1.00
76	42:28	1.00	1.166	1.00	120.00	120.00	0.789	0.789	1.00
77	44:06	1.00	1.210	1.00	120.00	120.00	0.831	0.831	1.00

ORIGINAL (Red)

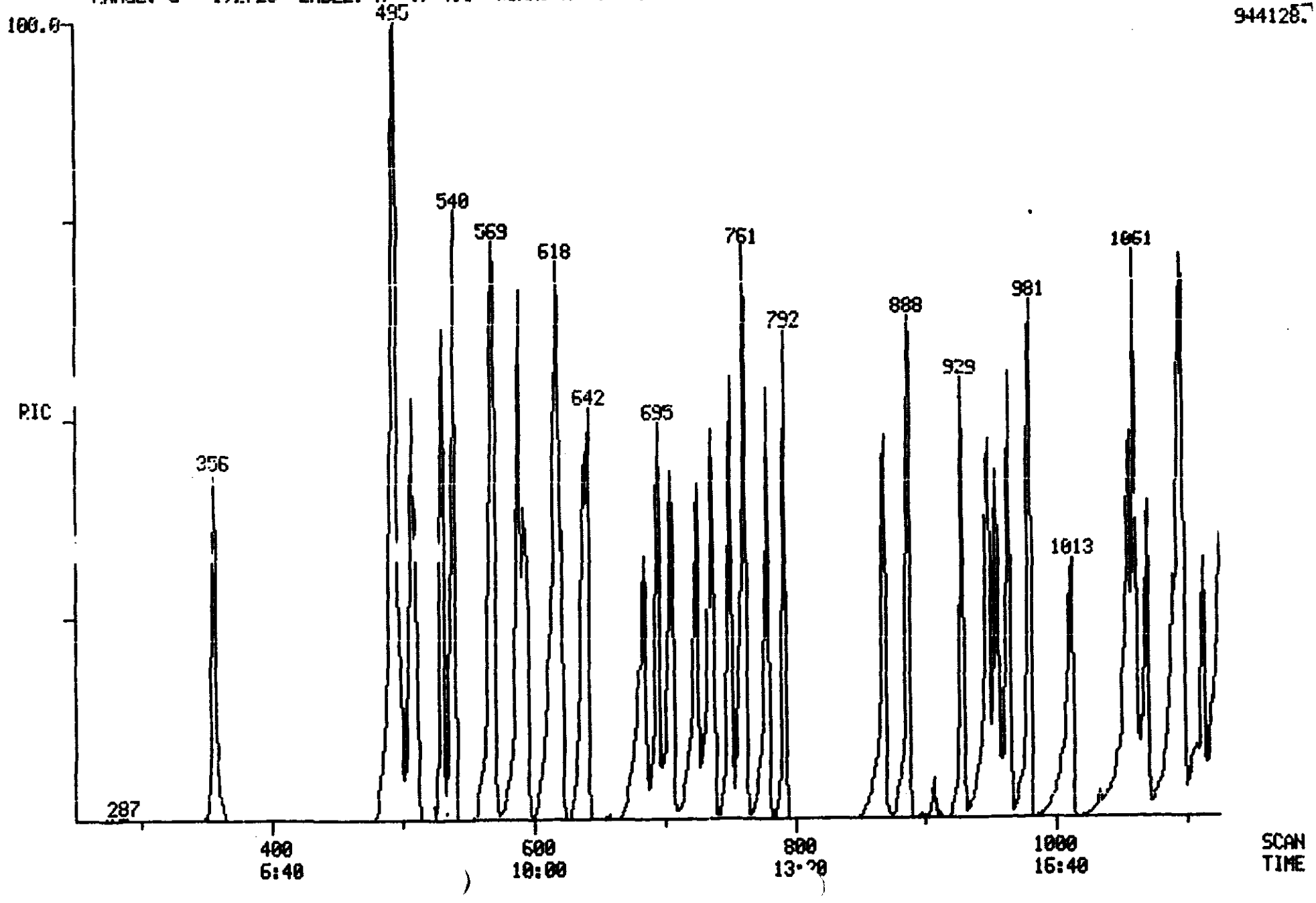
RIC
05/16/90 18:16:00
SAMPLE: CLP,,,SSTD160,,,22659,B,IC160,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: C 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2625 #1
CALI: T2625 #2

SCANS 250 TO 1125

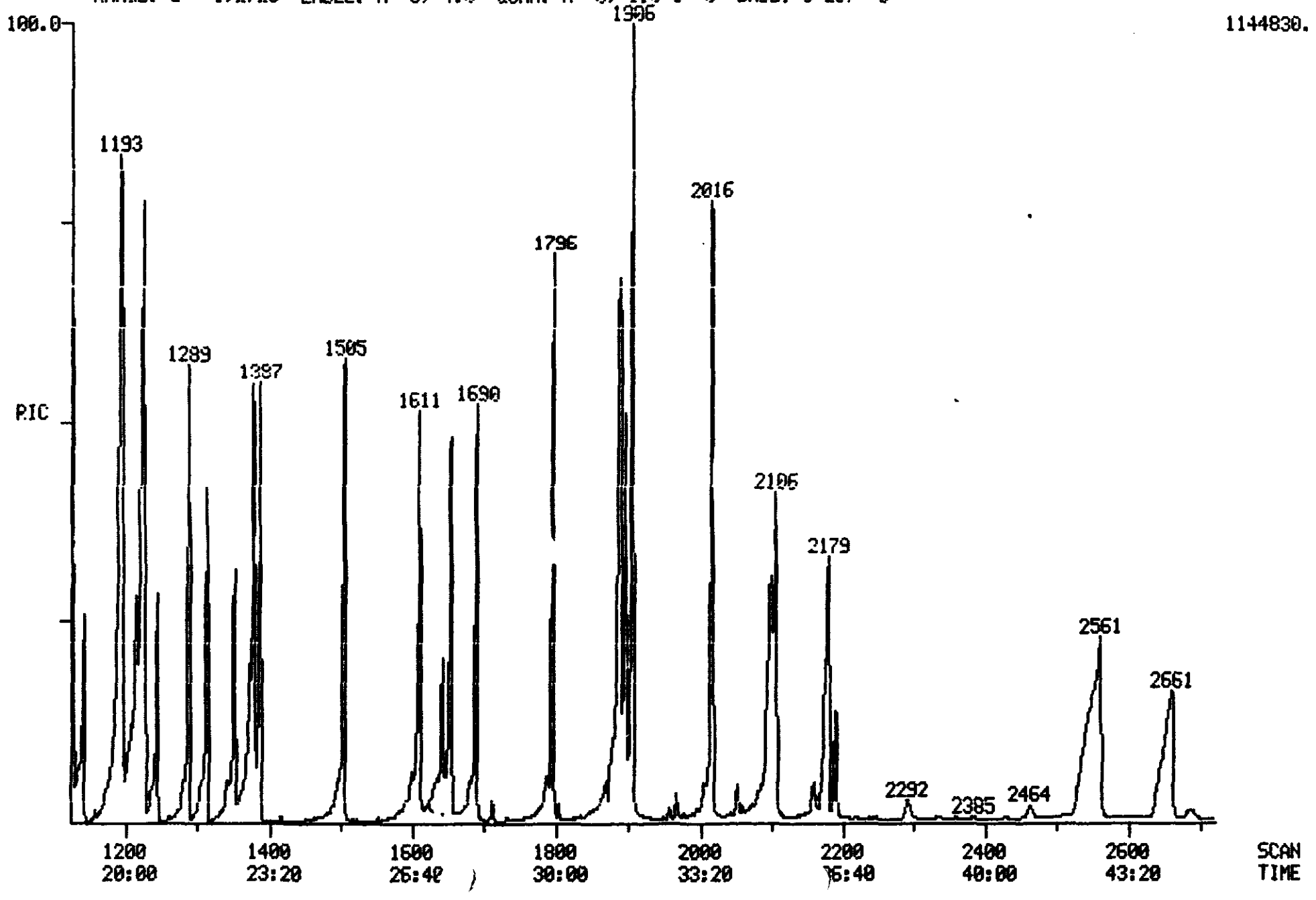
100423

944128.



ORIGINAL (Red)

RIC DATA: T2625 #1 SCANS 1125 TO 2720
05/16/90 16:16:00 CALI: T2625 #2
SAMPLE. CLP,,,SSTD160,,,22659,B,IC160,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: C 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



100424

Quantitation Report File: T2625

ORIGINAL
(Red)

Data: T2625.TI
5/16/90 18:16:00
Sample: CLP,,,SSTD160,,,22659,B,IC160,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ____

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

ORIGINAL
(Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	537	8:57	1	1.000	A BB	52204.	40.000	NG/UL	0.34
2	128	510	8:30	1	0.950	A BB	294474.	160.000	NG.	1.38
3	94	495	8:15	1	0.922	A BV	417611.	160.000	NG.	1.38
4	93	507	8:27	1	0.944	A VB	320458.	160.000	NG	1.38
5	146	531	8:51	1	0.989	A BV	313046.	160.000	NG	1.38
6	146	540	9:00	1	1.006	A VB	307528.	160.000	NG.	1.38
7	146	570	9:30	1	1.061	A BB	291231.	160.000	NG	1.38
8	108	567	9:27	1	1.056	A BB	210691.	160.000	NG	1.38
9	45	593	9:53	1	1.104	A BB	674595.	160.000	NG	1.38
10	108	589	9:49	1	1.097	A BB	287189.	160.000	NG	1.38
11	117	618	10:18	1	1.151	A BB	161757.	160.000	NG	1.38
12	108	615	10:15	1	1.145	A BB	305416.	160.000	NG	1.38
13	70	622	10:22	1	1.158	A BB	297896.	160.000	NG.	1.38
14	112	356	5:56	1	0.663	A BB	275917.	160.000	NG*A1	1.38
15	99	493	8:13	1	0.918	A BB	372854.	160.000	NG*A2	1.38
16	136	757	12:37	16	1.000	A BB	159478.	40.000	NG/UL	0.34
17	77	642	10:42	16	0.848	A BB	423219.	160.000	NG	1.38
18	82	684	11:24	16	0.904	A BB	767415.	160.000	NG	1.38
19	139	695	11:35	16	0.918	A VB	167512.	160.000	NG	1.38
20	107	705	11:45	16	0.931	A BB	348368.	160.000	NG	1.38
21	93	725	12:05	16	0.958	A BB	467194.	160.000	NG	1.38
22	162	736	12:16	16	0.972	A BB	251859.	160.000	NG	1.38
23	180	750	12:30	16	0.991	A BB	244897.	160.000	NG.	1.38
24	128	761	12:41	16	1.005	A BB	669823.	160.000	NG	1.38
25	122	725	12:05	16	0.958	A BV	20684.	160.000	NG	1.38
26	127	779	12:59	16	1.029	A BB	386701.	160.000	NG	1.38
27	225	792	13:12	16	1.046	A BB	155264.	160.000	NG	1.38
28	107	870	14:30	16	1.149	A BB	312654.	160.000	NG.	1.38
29	142	888	14:48	16	1.173	A BB	471772.	160.000	NG	1.38
30	82	638	10:38	16	0.843	A BB	421528.	160.000	NG*B1	1.38
31	164	1090	18:10	31	1.000	A BB	104475.	40.000	NG/UL	0.34
32	237	929	15:29	31	0.852	A BB	207805.	160.000	NG	1.38
33	196	949	15:49	31	0.871	A BV	201788.	160.000	NG	1.38
34	196	955	15:55	31	0.876	A VB	132139.	160.000	NG	1.38
35	162	981	16:21	31	0.900	A BB	486701.	160.000	NG	1.38
36	65	1013	16:53	31	0.929	A BB	326293.	160.000	NG	1.38
37	152	1061	17:41	31	0.973	A BB	750202.	160.000	NG	1.38
38	163	1056	17:36	31	0.969	A BB	540566.	160.000	NG	1.38
39	165	1070	17:50	31	0.982	A VB	131189.	160.000	NG	1.38
40	153	1097	18:17	31	1.006	A BB	485462.	160.000	NG.	1.38
41	138	1095	18:15	31	1.005	A BB	176415.	160.000	NG	1.38
42	184	1113	18:33	31	1.021	A VB	61240.	160.000	NG	1.38
43	168	1127	18:47	31	1.034	A BB	642112.	160.000	NG	1.38
44	109	1129	18:49	31	1.036	A VB	103393.	160.000	NG.	1.38
45	165	1143	19:03	31	1.049	A BB	180413.	160.000	NG.	1.38
46	166	1194	19:54	31	1.095	A BB	522688.	160.000	NG	1.38
47	204	1196	19:56	31	1.097	A BB	275319.	160.000	NG	1.38
48	149	1192	19:52	31	1.094	A BB	598210.	160.000	NG	1.38
49	138	1216	20:16	31	1.116	A VB	83674.	160.000	NG	1.38
50	198	1221	20:21	31	1.120	A VB	74493.	160.000	NG	1.38

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:57	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:30	1.00	0.950	1.00	160.00	160.00	1.410	1.410	1.00
3	8:15	1.00	0.922	1.00	160.00	160.00	2.000	2.000	1.00
4	8:27	1.00	0.944	1.00	160.00	160.00	1.535	1.535	1.00
5	8:51	1.00	0.989	1.00	160.00	160.00	1.499	1.499	1.00
6	9:00	1.00	1.006	1.00	160.00	160.00	1.473	1.473	1.00
7	9:30	1.00	1.061	1.00	160.00	160.00	1.395	1.395	1.00
8	9:27	1.00	1.056	1.00	160.00	160.00	1.009	1.009	1.00
9	9:53	1.00	1.104	1.00	160.00	160.00	3.231	3.231	1.00
10	9:49	1.00	1.097	1.00	160.00	160.00	1.375	1.375	1.00
11	10:18	1.00	1.151	1.00	160.00	160.00	0.775	0.775	1.00
12	10:15	1.00	1.145	1.00	160.00	160.00	1.463	1.463	1.00
13	10:22	1.00	1.158	1.00	160.00	160.00	1.427	1.427	1.00
14	5:56	1.00	0.663	1.00	160.00	160.00	1.321	1.321	1.00
15	8:13	1.00	0.918	1.00	160.00	160.00	1.786	1.786	1.00
16	12:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:42	1.00	0.848	1.00	160.00	160.00	0.663	0.663	1.00
18	11:24	1.00	0.904	1.00	160.00	160.00	1.203	1.203	1.00
19	11:35	1.00	0.918	1.00	160.00	160.00	0.263	0.263	1.00
20	11:45	1.00	0.931	1.00	160.00	160.00	0.546	0.546	1.00
21	12:05	1.00	0.958	1.00	160.00	160.00	0.732	0.732	1.00
22	12:16	1.00	0.972	1.00	160.00	160.00	0.395	0.395	1.00
23	12:30	1.00	0.991	1.00	160.00	160.00	0.384	0.384	1.00
24	12:41	1.00	1.005	1.00	160.00	160.00	1.050	1.050	1.00
25	12:05	1.00	0.958	1.00	160.00	160.00	0.032	0.032	1.00
26	12:59	1.00	1.029	1.00	160.00	160.00	0.606	0.606	1.00
27	13:12	1.00	1.046	1.00	160.00	160.00	0.243	0.243	1.00
28	14:30	1.00	1.149	1.00	160.00	160.00	0.490	0.490	1.00
29	14:48	1.00	1.173	1.00	160.00	160.00	0.740	0.740	1.00
30	10:38	1.00	0.843	1.00	160.00	160.00	0.661	0.661	1.00
31	18:10	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:29	1.00	0.852	1.00	160.00	160.00	0.497	0.497	1.00
33	15:49	1.00	0.871	1.00	160.00	160.00	0.483	0.483	1.00
34	15:55	1.00	0.876	1.00	160.00	160.00	0.316	0.316	1.00
35	16:21	1.00	0.900	1.00	160.00	160.00	1.165	1.165	1.00
36	16:53	1.00	0.929	1.00	160.00	160.00	0.781	0.781	1.00
37	17:41	1.00	0.973	1.00	160.00	160.00	1.795	1.795	1.00
38	17:36	1.00	0.969	1.00	160.00	160.00	1.294	1.294	1.00
39	17:50	1.00	0.982	1.00	160.00	160.00	0.314	0.314	1.00
40	18:17	1.00	1.006	1.00	160.00	160.00	1.162	1.162	1.00
41	18:15	1.00	1.005	1.00	160.00	160.00	0.422	0.422	1.00
42	18:33	1.00	1.021	1.00	160.00	160.00	0.147	0.147	1.00
43	18:47	1.00	1.034	1.00	160.00	160.00	1.537	1.537	1.00
44	18:49	1.00	1.036	1.00	160.00	160.00	0.247	0.247	1.00
45	19:03	1.00	1.049	1.00	160.00	160.00	0.432	0.432	1.00
46	19:54	1.00	1.095	1.00	160.00	160.00	1.251	1.251	1.00
47	19:56	1.00	1.097	1.00	160.00	160.00	0.659	0.659	1.00
48	19:52	1.00	1.094	1.00	160.00	160.00	1.431	1.431	1.00
49	20:16	1.00	1.116	1.00	160.00	160.00	0.200	0.200	1.00
50	20:21	1.00	1.120	1.00	160.00	160.00	0.178	0.178	1.00

100427

Quantitation Report File: T2625

ORIGINAL (Red)

Data: T2625.TI
5/16/90 18:16:00
Sample: CLP,,,SSTD160,,,22659,B,IC160,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ____

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1224	20:24	31	1.123	A BB	397022.	160.000 NG	1.38
52	248	1289	21:29	31	1.183	A BB	216986.	160.000 NG	1.38
53	284	1313	21:53	31	1.205	A BB	264131.	160.000 NG	1.38
54	172	964	16:04	31	0.884	A BB	495799.	160.000 NG*B2	1.38
55	188	1372	22:52	55	1.000	A BB	195338.	40.000 NG/UL	0.34
56	266	1351	22:31	55	0.985	A BB	149439.	160.000 NG.	1.38
57	178	1378	22:58	55	1.004	A BV	745792.	160.000 NG	1.38
58	178	1387	23:07	55	1.011	A VB	571520.	160.000 NG	1.38
59	149	1504	25:04	55	1.096	A BB	884830.	160.000 NG	1.38
60	202	1611	26:51	55	1.174	A VB	654504.	160.000 NG	1.38
61	202	1654	27:34	63	0.875	A BB	760764.	160.000 NG.	1.38
62	330	1244	20:44	31	1.141	A BB	141977.	160.000 NG*A3	1.38
63	240	1890	31:30	63	1.000	A VB	183018.	40.000 NG/UL	0.34
64	149	1796	29:56	63	0.950	A BB	448764.	160.000 NG	1.38
65	228	1887	31:27	63	0.998	A VV	721776.	160.000 NG	1.38
66	228	1896	31:36	63	1.003	A VB	466496.	160.000 NG	1.38

ORIGINAL (Red)

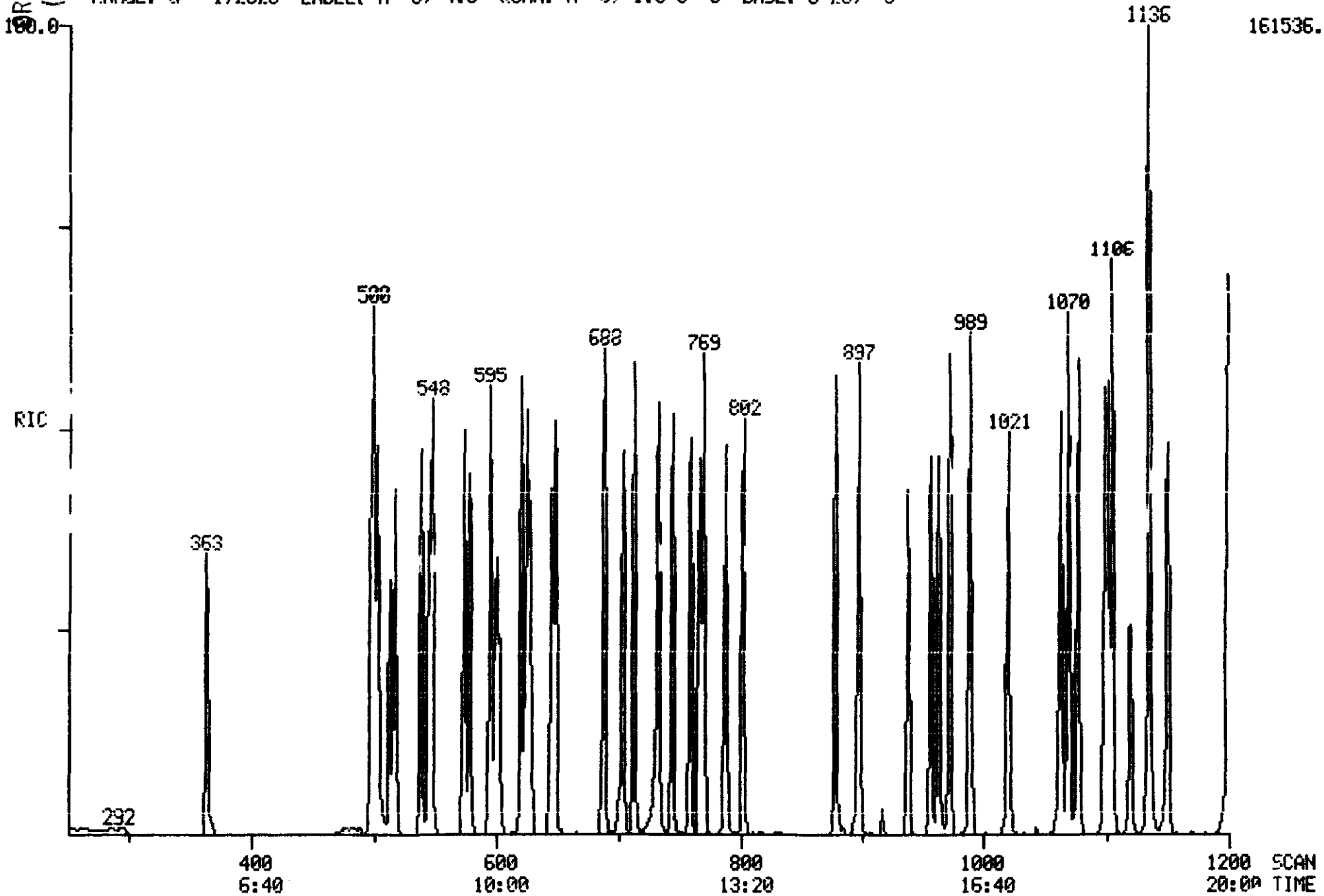
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	252	1889	31:29	63	0.999	A VB	222972.	160.000	NG	1.38
68	149	1906	31:46	63	1.008	A BB	658090.	160.000	NG	1.38
69	244	1690	28:10	63	0.894	A BB	596924.	160.000	NG+B3	1.38
70	264	2190	36:30	70	1.000	A BB	243684.	40.000	NG/UL	0.34
71	149	2016	33:36	70	0.921	A BB	937704.	160.000	NG	1.38
72	252	2099	34:59	70	0.958	A BV	821562.	160.000	NG	1.38
73	252	2106	35:06	70	0.962	A VB	580720.	160.000	NG	1.38
74	252	2179	36:19	70	0.995	A BB	781339.	160.000	NG	1.38
75	276	2549	42:29	70	1.164	A VB	436316.	160.000	NG	1.38
76	278	2561	42:41	70	1.169	A BB	726366.	160.000	NG	1.38
77	276	2661	44:21	70	1.215	A BB	733832.	160.000	NG	1.38

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:24	1.00	1.123	1.00	160.00	160.00	0.950	0.950	1.00
52	21:29	1.00	1.183	1.00	160.00	160.00	0.519	0.519	1.00
53	21:53	1.00	1.205	1.00	160.00	160.00	0.632	0.632	1.00
54	16:04	1.00	0.884	1.00	160.00	160.00	1.186	1.186	1.00
55	22:52	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:31	1.00	0.985	1.00	160.00	160.00	0.191	0.191	1.00
57	22:58	1.00	1.004	1.00	160.00	160.00	0.954	0.954	1.00
58	23:07	1.00	1.011	1.00	160.00	160.00	0.731	0.731	1.00
59	25:04	1.00	1.096	1.00	160.00	160.00	1.132	1.132	1.00
60	26:51	1.00	1.174	1.00	160.00	160.00	0.838	0.838	1.00
61	27:34	1.00	0.875	1.00	160.00	160.00	1.039	1.039	1.00
62	20:44	1.00	1.141	1.00	160.00	160.00	0.340	0.340	1.00
63	31:30	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:56	1.00	0.950	1.00	160.00	160.00	0.613	0.613	1.00
65	31:27	1.00	0.998	1.00	160.00	160.00	0.986	0.986	1.00
66	31:36	1.00	1.003	1.00	160.00	160.00	0.637	0.637	1.00
67	31:29	1.00	0.999	1.00	160.00	160.00	0.305	0.305	1.00
68	31:46	1.00	1.008	1.00	160.00	160.00	0.899	0.899	1.00
69	28:10	1.00	0.894	1.00	160.00	160.00	0.815	0.815	1.00
70	36:30	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:36	1.00	0.921	1.00	160.00	160.00	0.962	0.962	1.00
72	34:59	1.00	0.958	1.00	160.00	160.00	0.843	0.843	1.00
73	35:06	1.00	0.962	1.00	160.00	160.00	0.596	0.596	1.00
74	36:19	1.00	0.995	1.00	160.00	160.00	0.802	0.802	1.00
75	42:29	1.00	1.164	1.00	160.00	160.00	0.448	0.448	1.00
76	42:41	1.00	1.169	1.00	160.00	160.00	0.745	0.745	1.00
77	44:21	1.00	1.215	1.00	160.00	160.00	0.753	0.753	1.00

RIC DATA: T2583 #1 SCANS 250 TO 1200
05/15/90 9:42:00 CALI: T2583 #2
SAMPLE: CLP,,,SSTD 50,,,22658,P,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

ORIGINAL (Red)

100430



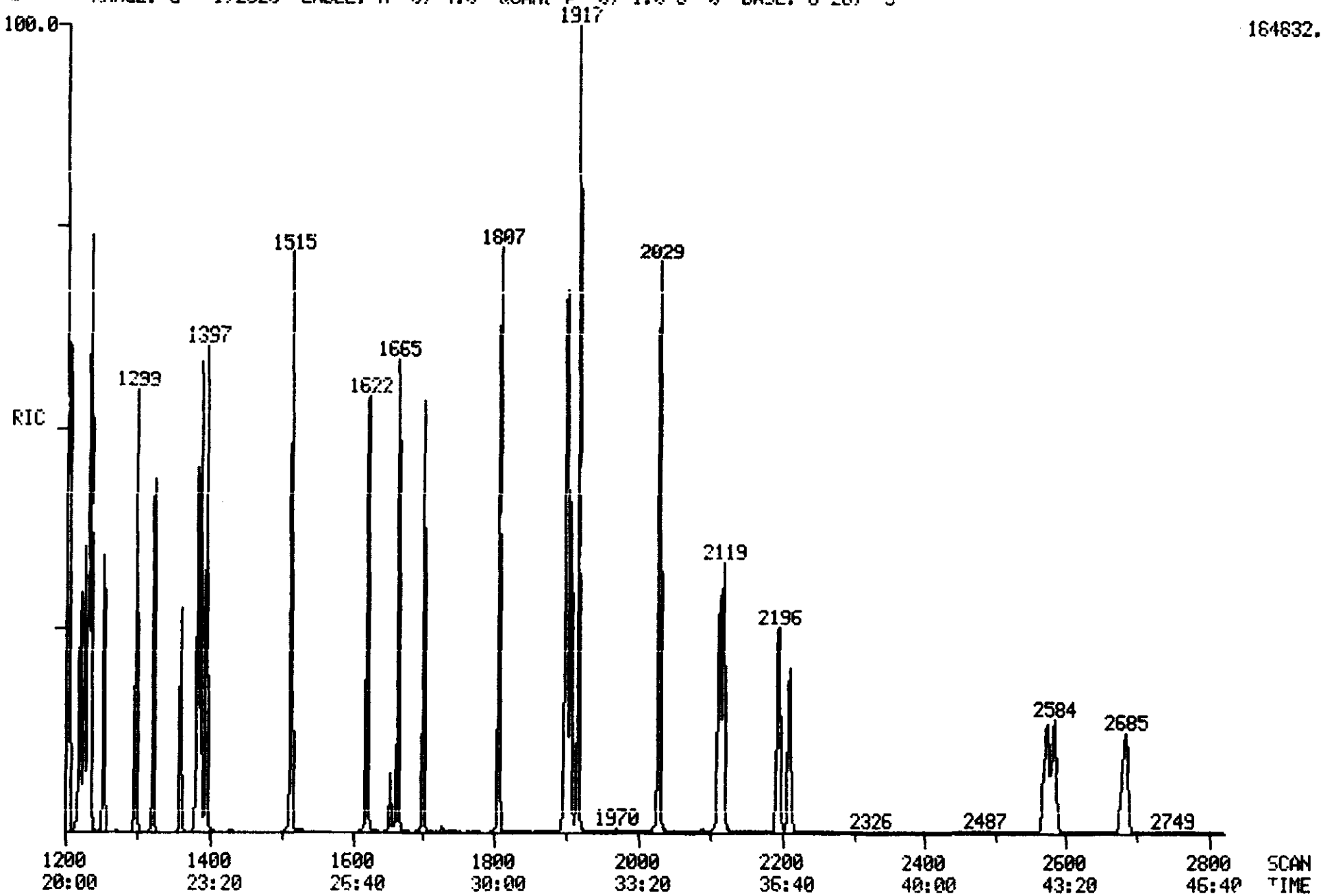
ORIGINAL (Red)

RIC
05/15/90 9:42:00
SAMPLE: CLP,,,SSTD 50,,,22658,B,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: C 1,2820 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2583 #1
CALI: T2563 #2

SCANS 1200 TO 2820

100431



Quantitation Report File: T2583

ORIGINAL
(Red)

Data: T2583.TI
05/15/90 9:42:00
Sample: CLP,,,SSTD 50,,,22658,B,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

T2583 ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	545	9:05	1	1.000	A BB	15588.	40.000	NG/UL	1.06
2	128	517	8:37	1	0.949	A BB	24772.	50.000	NG.	1.32
3	94	500	8:20	1	0.917	A BB	34088.	50.000	NG.	1.32
4	93	513	8:33	1	0.941	A VB	31270.	50.000	NG	1.32
5	146	539	8:59	1	0.989	A BB	28927.	50.000	NG	1.32
6	146	548	9:08	1	1.006	A BB	29853.	50.000	NG.	1.32
7	146	578	9:38	1	1.061	A BB	28229.	50.000	NG	1.32
8	108	574	9:34	1	1.053	A BB	17184.	50.000	NG	1.32
9	45	600	10:00	1	1.101	A BB	77815.	50.000	NG	1.32
10	108	595	9:55	1	1.092	A BB	25765.	50.000	NG	1.32
11	117	627	10:27	1	1.150	A BB	18430.	50.000	NG	1.32
12	108	620	10:20	1	1.138	A BB	27149.	50.000	NG	1.32
13	70	625	10:25	1	1.147	A BB	35204.	50.000	NG.	1.32
14	112	363	6:03	1	0.666	A BB	20583.	50.000	NG*A1	1.32
15	99	498	8:18	1	0.914	A BB	30025.	50.000	NG*A2	1.32
16	136	766	12:46	16	1.000	A BB	52356.	40.000	NG/UL	1.06
17	77	648	10:48	16	0.846	A BB	51377.	50.000	NG	1.32
18	82	688	11:28	16	0.898	A BB	87273.	50.000	NG	1.32
19	139	703	11:43	16	0.918	A BB	15806.	50.000	NG	1.32
20	107	712	11:52	16	0.930	A BB	36610.	50.000	NG	1.32
21	93	732	12:12	16	0.956	A BB	49188.	50.000	NG	1.32
22	162	744	12:24	16	0.971	A BB	25635.	50.000	NG	1.32
23	180	758	12:38	16	0.990	A BB	28380.	50.000	NG.	1.32
24	128	769	12:49	16	1.004	A BB	87600.	50.000	NG	1.32
25	122	734	12:14	16	0.958	A BB	11064.	50.000	NG	1.32
26	127	787	13:07	16	1.027	A BB	38895.	50.000	NG	1.32
27	225	802	13:22	16	1.047	A BB	19505.	50.000	NG	1.32
28	107	878	14:38	16	1.146	A BB	35402.	50.000	NG.	1.32
29	142	897	14:57	16	1.171	A BB	56916.	50.000	NG	1.32
30	82	645	10:45	16	0.842	A BB	46950.	50.000	NG*B1	1.32
31	164	1100	18:20	31	1.000	A BB	40125.	40.000	NG/UL	1.06
32	237	939	15:39	31	0.854	A BB	21785.	50.000	NG	1.32
33	196	957	15:57	31	0.870	A BV	19181.	50.000	NG	1.32
34	196	964	16:04	31	0.876	A VB	21092.	50.000	NG	1.32
35	162	989	16:29	31	0.899	A BB	60904.	50.000	NG	1.32
36	65	1021	17:01	31	0.928	A BB	41260.	50.000	NG	1.32
37	152	1070	17:50	31	0.973	A BB	101133.	50.000	NG	1.32
38	163	1063	17:43	31	0.966	A BB	77193.	50.000	NG	1.32
39	165	1078	17:58	31	0.980	A BB	18649.	50.000	NG	1.32
40	153	1106	18:26	31	1.005	A BB	63613.	50.000	NG.	1.32
41	138	1102	18:22	31	1.002	A BB	21800.	50.000	NG	1.32
42	184	1120	18:40	31	1.018	A BB	10074.	50.000	NG	1.32
43	168	1136	18:56	31	1.033	A BB	90105.	50.000	NG	1.32
44	109	1136	18:56	31	1.033	A BB	15495.	50.000	NG.	1.32
45	165	1151	19:11	31	1.046	A BB	25583.	50.000	NG.	1.32
46	166	1203	20:03	31	1.094	A BB	71463.	50.000	NG	1.32
47	204	1205	20:05	31	1.095	A BB	36990.	50.000	NG	1.32
48	149	1200	20:00	31	1.091	A BB	92058.	50.000	NG	1.32
49	138	1221	20:21	31	1.110	A BV	20403.	50.000	NG	1.32
50	198	1227	20:27	31	1.115	A BB	14891.	50.000	NG	1.32

T2583

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	9:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:37	1.00	0.949	1.00	50.00	50.00	1.271	1.271	1.00
3	8:20	1.00	0.917	1.00	50.00	50.00	1.749	1.749	1.00
4	8:33	1.00	0.941	1.00	50.00	50.00	1.605	1.605	1.00
5	8:59	1.00	0.989	1.00	50.00	50.00	1.485	1.485	1.00
6	9:08	1.00	1.006	1.00	50.00	50.00	1.532	1.532	1.00
7	9:38	1.00	1.061	1.00	50.00	50.00	1.449	1.449	1.00
8	9:34	1.00	1.053	1.00	50.00	50.00	0.882	0.882	1.00
9	10:00	1.00	1.101	1.00	50.00	50.00	3.994	3.994	1.00
10	9:55	1.00	1.092	1.00	50.00	50.00	1.322	1.322	1.00
11	10:27	1.00	1.150	1.00	50.00	50.00	0.946	0.946	1.00
12	10:20	1.00	1.138	1.00	50.00	50.00	1.393	1.393	1.00
13	10:25	1.00	1.147	1.00	50.00	50.00	1.807	1.807	1.00
14	6:03	1.00	0.666	1.00	50.00	50.00	1.056	1.056	1.00
15	8:18	1.00	0.914	1.00	50.00	50.00	1.541	1.541	1.00
16	12:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:48	1.00	0.846	1.00	50.00	50.00	0.785	0.785	1.00
18	11:28	1.00	0.898	1.00	50.00	50.00	1.334	1.334	1.00
19	11:43	1.00	0.918	1.00	50.00	50.00	0.242	0.242	1.00
20	11:52	1.00	0.930	1.00	50.00	50.00	0.559	0.559	1.00
21	12:12	1.00	0.956	1.00	50.00	50.00	0.752	0.752	1.00
22	12:24	1.00	0.971	1.00	50.00	50.00	0.392	0.392	1.00
23	12:38	1.00	0.990	1.00	50.00	50.00	0.434	0.434	1.00
24	12:49	1.00	1.004	1.00	50.00	50.00	1.339	1.339	1.00
25	12:14	1.00	0.958	1.00	50.00	50.00	0.169	0.169	1.00
26	13:07	1.00	1.027	1.00	50.00	50.00	0.594	0.594	1.00
27	13:22	1.00	1.047	1.00	50.00	50.00	0.298	0.298	1.00
28	14:38	1.00	1.146	1.00	50.00	50.00	0.541	0.541	1.00
29	14:57	1.00	1.171	1.00	50.00	50.00	0.870	0.870	1.00
30	10:45	1.00	0.842	1.00	50.00	50.00	0.717	0.717	1.00
31	18:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:39	1.00	0.854	1.00	50.00	50.00	0.434	0.434	1.00
33	15:57	1.00	0.870	1.00	50.00	50.00	0.382	0.382	1.00
34	16:04	1.00	0.876	1.00	50.00	50.00	0.421	0.421	1.00
35	16:29	1.00	0.899	1.00	50.00	50.00	1.214	1.214	1.00
36	17:01	1.00	0.928	1.00	50.00	50.00	0.823	0.823	1.00
37	17:50	1.00	0.973	1.00	50.00	50.00	2.016	2.016	1.00
38	17:43	1.00	0.966	1.00	50.00	50.00	1.539	1.539	1.00
39	17:58	1.00	0.980	1.00	50.00	50.00	0.372	0.372	1.00
40	18:26	1.00	1.005	1.00	50.00	50.00	1.268	1 268	1.00
41	18:22	1.00	1.002	1.00	50.00	50.00	0.435	0.435	1.00
42	18:40	1.00	1.018	1.00	50.00	50.00	0.201	0.201	1.00
43	18:56	1.00	1.033	1.00	50.00	50.00	1.796	1.796	1.00
44	18:56	1.00	1.033	1.00	50.00	50.00	0.309	0.309	1.00
45	19:11	1.00	1.046	1.00	50.00	50.00	0.510	0.510	1.00
46	20:03	1.00	1.094	1.00	50.00	50.00	1.425	1.425	1.00
47	20:05	1.00	1.095	1.00	50.00	50.00	0.737	0.737	1.00
48	20:00	1.00	1.091	1.00	50.00	50.00	1.835	1.835	1.00
49	20:21	1.00	1.110	1.00	50.00	50.00	0.407	0.407	1.00
50	20:27	1.00	1.115	1.00	50.00	50.00	0.297	0.297	1.00

100434

Quantitation Report File: T2593

Data: T2583.TI
05/15/90 9:42:00
Sample: CLP,,,SSTD 50,,,22658,B,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

ORIGINAL
(Red)

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1232	20:32	31	1.120	A BB	54018.	50.000 NG	1.32
52	248	1299	21:39	31	1.181	A BB	23313.	50.000 NG	1.32
53	284	1323	22:03	31	1.203	A BB	29002.	50.000 NG	1.32
54	172	973	16:13	31	0.885	A BB	64291.	50.000 NG*B2	1.32
55	188	1384	23:04	55	1.000	A BB	81463.	40.000 NG/UL	1.06
56	266	1360	22:40	55	0.983	A BB	14582.	50.000 NG.	1.32
57	178	1388	23:08	55	1.003	A BV	111921.	50.000 NG	1.32
58	178	1397	23:17	55	1.009	A VB	110704.	50.000 NG	1.32
59	149	1514	25:14	55	1.094	A BV	172592.	50.000 NG	1.32
60	202	1621	27:01	55	1.171	A BB	118171.	50.000 NG	1.32
61	202	1665	27:45	63	0.875	A B2	119692.	50.000 NG.	1.32
62	330	1254	20:54	31	1.140	A BB	15710.	50.000 NG*A3	1.32
63	240	1902	31:42	63	1.000	A BB	72781.	40.000 NG/UL	1.06
64	149	1807	30:07	63	0.950	A BB	72060.	50.000 NG	1.32
65	228	1899	31:39	63	0.998	A BV	92263.	50.000 NG	1.32
66	228	1907	31:47	63	1.003	A VB	68434.	50.000 NG	1.32

T2583

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	252	1900	31:40	63	0.999	A BB	29549.	50.000	NG	1.32
68	149	1917	31:57	63	1.008	A BB	99489.	50.000	NG	1.32
69	244	1701	28:21	63	0.894	A BB	78643.	50.000	NG*B3	1.32
70	264	2211	36:51	70	1.000	A BB	61203.	40.000	NG/UL	1.06
71	149	2029	33:49	70	0.918	A BB	163916.	50.000	NG	1.32
72	252	2113	35:13	70	0.956	A BV	88270.	50.000	NG	1.32
73	252	2119	35:19	70	0.958	A VB	76404.	50.000	NG	1.32
74	252	2196	36:36	70	0.993	A BV	81710.	50.000	NG	1.32
75	276	2574	42:54	70	1.164	A BV	67119.	50.000	NG	1.32
76	278	2584	43:04	70	1.169	A BB	65977.	50.000	NG	1.32
77	276	2685	44:45	70	1.214	A BB	68584.	50.000	NG	1.32

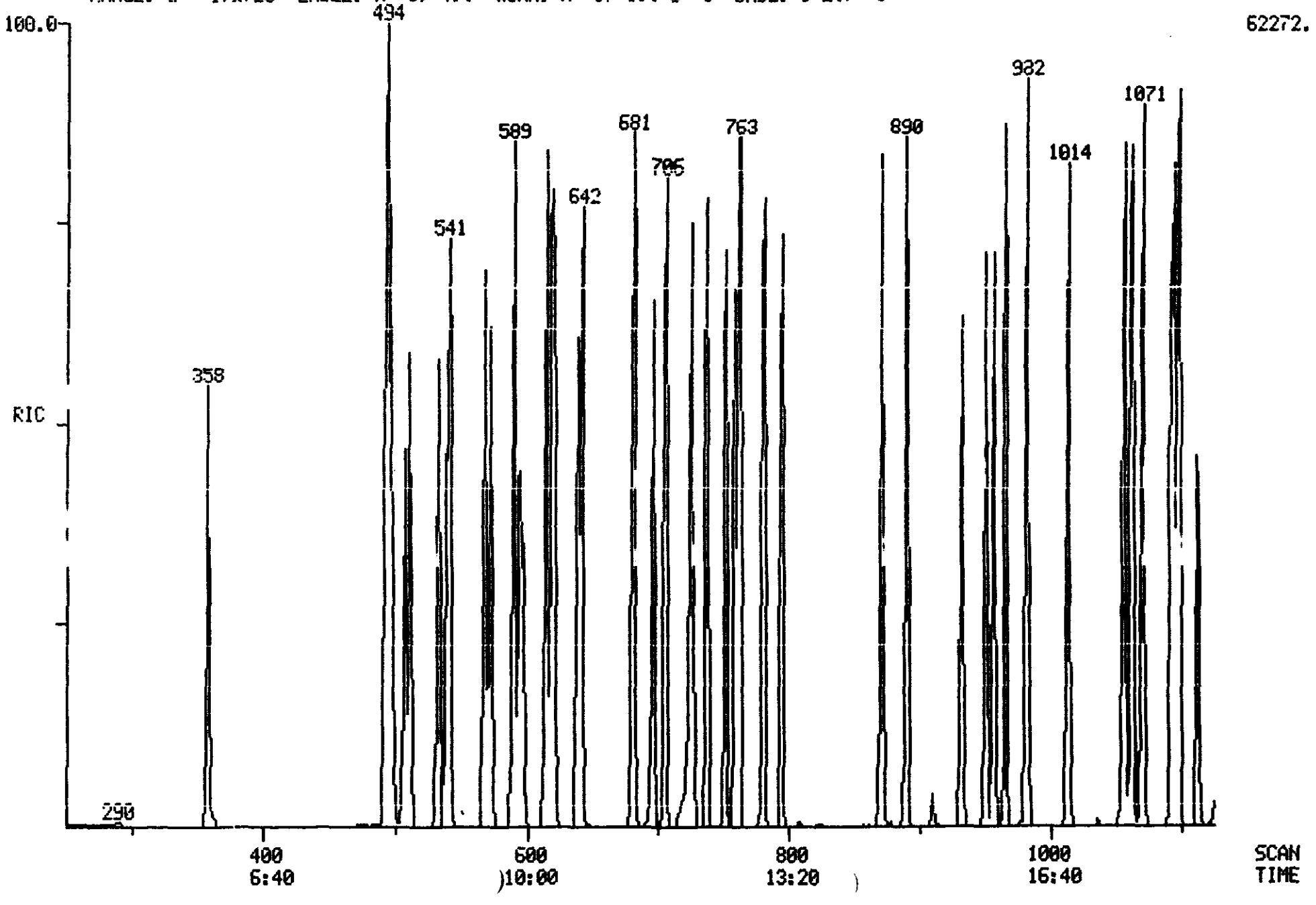
No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:32	1.00	1.120	1.00	50.00	50.00	1.077	1.077	1.00
52	21:39	1.00	1.181	1.00	50.00	50.00	0.465	0.465	1.00
53	22:03	1.00	1.203	1.00	50.00	50.00	0.578	0.578	1.00
54	16:13	1.00	0.885	1.00	50.00	50.00	1.282	1.282	1.00
55	23:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:40	1.00	0.983	1.00	50.00	50.00	0.143	0.143	1.00
57	23:08	1.00	1.003	1.00	50.00	50.00	1.099	1.099	1.00
58	23:17	1.00	1.009	1.00	50.00	50.00	1.087	1.087	1.00
59	25:14	1.00	1.094	1.00	50.00	50.00	1.695	1.695	1.00
60	27:01	1.00	1.171	1.00	50.00	50.00	1.160	1.160	1.00
61	27:45	1.00	0.875	1.00	50.00	50.00	1.316	1.316	1.00
62	20:54	1.00	1.140	1.00	50.00	50.00	0.313	0.313	1.00
63	31:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	30:07	1.00	0.950	1.00	50.00	50.00	0.792	0.792	1.00
65	31:39	1.00	0.998	1.00	50.00	50.00	1.014	1.014	1.00
66	31:47	1.00	1.003	1.00	50.00	50.00	0.752	0.752	1.00
67	31:40	1.00	0.999	1.00	50.00	50.00	0.325	0.325	1.00
68	31:57	1.00	1.008	1.00	50.00	50.00	1.094	1.094	1.00
69	28:21	1.00	0.894	1.00	50.00	50.00	0.864	0.864	1.00
70	36:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:49	1.00	0.918	1.00	50.00	50.00	2.143	2.143	1.00
72	35:13	1.00	0.956	1.00	50.00	50.00	1.154	1.154	1.00
73	35:19	1.00	0.958	1.00	50.00	50.00	0.999	0.999	1.00
74	36:36	1.00	0.993	1.00	50.00	50.00	1.068	1.068	1.00
75	42:54	1.00	1.164	1.00	50.00	50.00	0.877	0.877	1.00
76	43:04	1.00	1.169	1.00	50.00	50.00	0.862	0.862	1.00
77	44:45	1.00	1.214	1.00	50.00	50.00	0.896	0.896	1.00

ORIGINAL (Red)

RIC
05/15/90 22:57:00
SAMPLE: CLP,,,SSTD50,,,22652,B,CC50,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2598 #1
CALI: T2598 #2

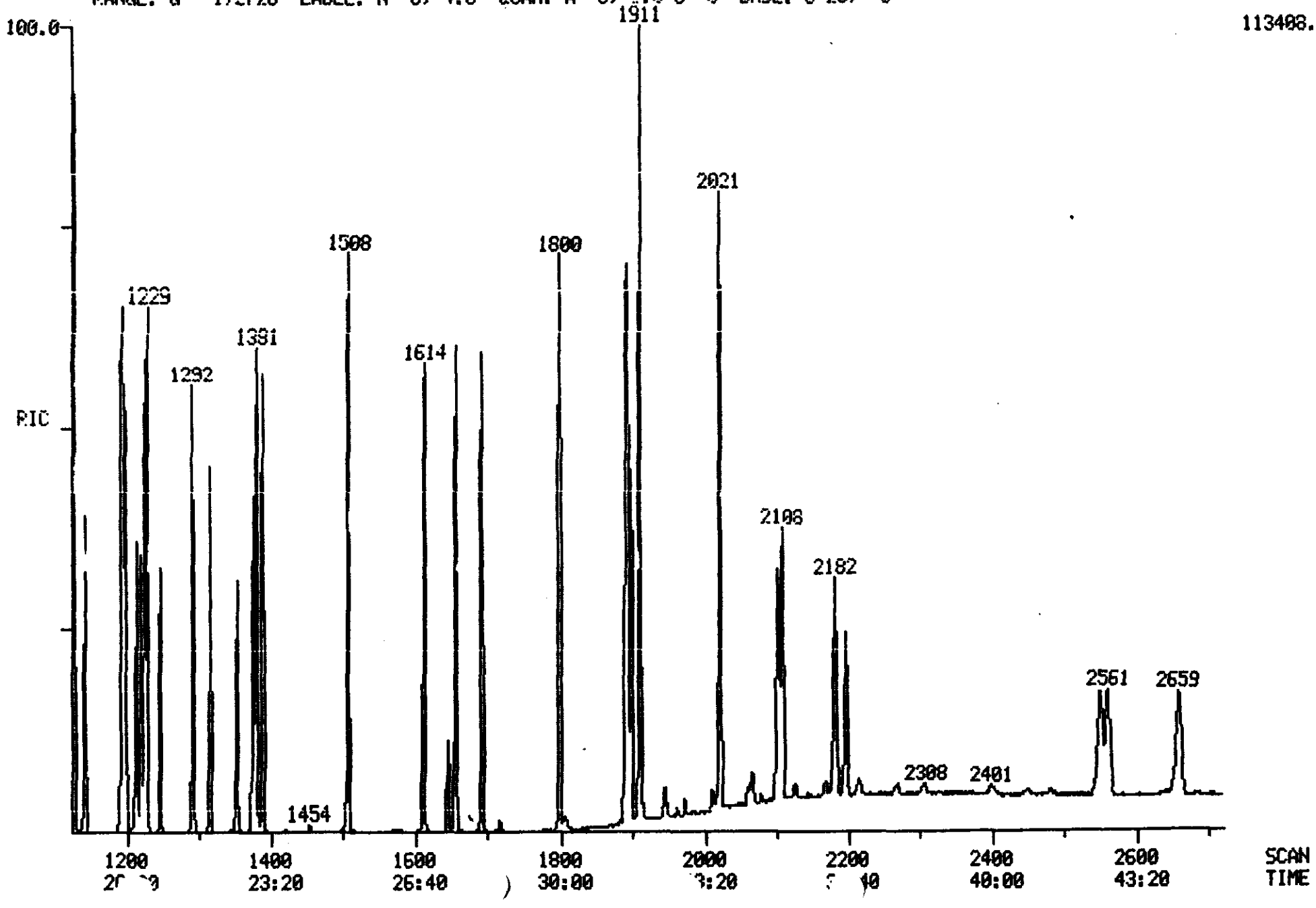
SCANS 250 TO 1125



1004437

ORIGINAL (Red)

RIC DATA: T2598 #1 SCANS 1125 TO 2720
05/15/90 22:57:00 CALI: T2598 #2
SAMPLE: CLP,,,SSTD50,,,22656,B,CC50,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, [illegible].0 J 0 BASE: U 20, 3



100438

Quantitation Report File: T2598

ORIGINAL (Red)

Data: T2598.TI
05/15/90 22:57:00
Sample: CLP,,,SSTD50,,,22658,B,CC50,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	539	8:59	1	1.000	A BB	8002.	40.000 NG/UL	1.06
2	128	511	8:31	1	0.948	A BB	13163.	50.000 NG.	1.32
3	94	494	8:14	1	0.917	A BB	20288.	50.000 NG.	1.32
4	93	507	8:27	1	0.941	A BB	17064.	50.000 NG	1.32
5	146	532	8:52	1	0.987	A BB	14514.	50.000 NG	1.32
6	146	541	9:01	1	1.004	A BB	15470.	50.000 NG.	1.32
7	146	572	9:32	1	1.061	A BB	14561.	50.000 NG	1.32
8	108	568	9:28	1	1.054	A BB	10060.	50.000 NG	1.32
9	45	594	9:54	1	1.102	A BB	43613.	50.000 NG	1.32
10	108	589	9:49	1	1.093	A BB	14162.	50.000 NG	1.32
11	117	620	10:20	1	1.150	A BB	9786.	50.000 NG	1.32
12	108	614	10:14	1	1.139	A BB	14794.	50.000 NG	1.32
13	70	618	10:18	1	1.147	A BB	19972.	50.000 NG.	1.32
14	112	358	5:58	1	0.664	A BB	12190.	50.000 NG*A1	1.32
15	199	492	8:12	1	0.913	A BB	18106.	50.000 NG*A2	1.32
16	136	759	12:39	16	1.000	A BB	27483.	40.000 NG/UL	1.06
17	77	642	10:42	16	0.846	A BB	29686.	50.000 NG	1.32
18	82	681	11:21	16	0.897	A BB	49270.	50.000 NG	1.32
19	139	696	11:36	16	0.917	A BB	8672.	50.000 NG	1.32
20	107	706	11:46	16	0.930	A BB	19719.	50.000 NG	1.32
21	93	725	12:05	16	0.955	A BB	26200.	50.000 NG	1.32
22	162	737	12:17	16	0.971	A BB	13785.	50.000 NG	1.32
23	180	752	12:32	16	0.991	A BB	14992.	50.000 NG.	1.32
24	128	762	12:42	16	1.004	A BB	46707.	50.000 NG	1.32
25	122	728	12:08	16	0.959	A BB	6539.	50.000 NG	1.32
26	127	781	13:01	16	1.029	A BB	20757.	50.000 NG	1.32
27	225	795	13:15	16	1.047	A BB	11060.	50.000 NG	1.32
28	107	872	14:32	16	1.149	A BB	19599.	50.000 NG.	1.32
29	142	890	14:50	16	1.173	A BB	29194.	50.000 NG	1.32
30	82	638	10:38	16	0.841	A BB	27868.	50.000 NG*B1	1.32
31	164	1092	18:12	31	1.000	A BB	21537.	40.000 NG/UL	1.06
32	237	932	15:32	31	0.853	A BB	12997.	50.000 NG	1.32
33	196	951	15:51	31	0.871	A BV	10926.	50.000 NG	1.32
34	196	957	15:57	31	0.876	A VB	11919.	50.000 NG	1.32
35	162	982	16:22	31	0.899	A BB	32649.	50.000 NG	1.32
36	65	1014	16:54	31	0.929	A BB	24282.	50.000 NG	1.32
37	152	1063	17:43	31	0.973	A BB	53821.	50.000 NG	1.32
38	163	1057	17:37	31	0.968	A BB	42109.	50.000 NG	1.32
39	165	1071	17:51	31	0.981	A BB	10035.	50.000 NG	1.32
40	153	1099	18:19	31	1.006	A BB	33055.	50.000 NG.	1.32
41	138	1095	18:15	31	1.003	A BB	11650.	50.000 NG	1.32
42	184	1113	18:33	31	1.019	A BB	6720.	50.000 NG	1.32
43	168	1129	18:49	31	1.034	A BB	49632.	50.000 NG	1.32
44	109	1129	18:49	31	1.034	A BB	10767.	50.000 NG.	1.32
45	165	1144	19:04	31	1.048	A BB	14256.	50.000 NG.	1.32
46	166	1195	19:55	31	1.094	A BB	39417.	50.000 NG	1.32
47	204	1198	19:58	31	1.097	A BB	21501.	50.000 NG	1.32
48	149	1193	19:53	31	1.092	A BB	50664.	50.000 NG	1.32
49	138	1215	20:15	31	1.113	A BB	11734.	50.000 NG	1.32
50	198	1220	20:20	31	1.117	A BB	9210.	50.000 NG	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:59	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:31	1.00	0.948	1.00	50.00	50.00	1.316	1.316	1.00
3	8:14	1.00	0.917	1.00	50.00	50.00	2.028	2.028	1.00
4	8:27	1.00	0.941	1.00	50.00	50.00	1.706	1.706	1.00
5	8:52	1.00	0.987	1.00	50.00	50.00	1.451	1.451	1.00
6	9:01	1.00	1.004	1.00	50.00	50.00	1.547	1.547	1.00
7	9:32	1.00	1.061	1.00	50.00	50.00	1.456	1.456	1.00
8	9:28	1.00	1.054	1.00	50.00	50.00	1.006	1.006	1.00
9	9:54	1.00	1.102	1.00	50.00	50.00	4.360	4.360	1.00
10	9:49	1.00	1.093	1.00	50.00	50.00	1.416	1.416	1.00
11	10:20	1.00	1.150	1.00	50.00	50.00	0.978	0.978	1.00
12	10:14	1.00	1.139	1.00	50.00	50.00	1.479	1.479	1.00
13	10:18	1.00	1.147	1.00	50.00	50.00	1.997	1.997	1.00
14	5:58	1.00	0.664	1.00	50.00	50.00	1.219	1.219	1.00
15	8:12	1.00	0.913	1.00	50.00	50.00	1.810	1.810	1.00
16	12:39	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:42	1.00	0.846	1.00	50.00	50.00	0.864	0.864	1.00
18	11:21	1.00	0.897	1.00	50.00	50.00	1.434	1.434	1.00
19	11:36	1.00	0.917	1.00	50.00	50.00	0.252	0.252	1.00
20	11:46	1.00	0.930	1.00	50.00	50.00	0.574	0.574	1.00
21	12:05	1.00	0.955	1.00	50.00	50.00	0.763	0.763	1.00
22	12:17	1.00	0.971	1.00	50.00	50.00	0.401	0.401	1.00
23	12:32	1.00	0.991	1.00	50.00	50.00	0.436	0.436	1.00
24	12:42	1.00	1.004	1.00	50.00	50.00	1.360	1.360	1.00
25	12:08	1.00	0.959	1.00	50.00	50.00	0.190	0.190	1.00
26	13:01	1.00	1.029	1.00	50.00	50.00	0.604	0.604	1.00
27	13:15	1.00	1.047	1.00	50.00	50.00	0.322	0.322	1.00
28	14:32	1.00	1.149	1.00	50.00	50.00	0.571	0.571	1.00
29	14:50	1.00	1.173	1.00	50.00	50.00	0.850	0.850	1.00
30	10:38	1.00	0.841	1.00	50.00	50.00	0.811	0.811	1.00
31	18:12	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:32	1.00	0.853	1.00	50.00	50.00	0.483	0.483	1.00
33	15:51	1.00	0.871	1.00	50.00	50.00	0.406	0.406	1.00
34	15:57	1.00	0.876	1.00	50.00	50.00	0.443	0.443	1.00
35	16:22	1.00	0.899	1.00	50.00	50.00	1.213	1.213	1.00
36	16:54	1.00	0.929	1.00	50.00	50.00	0.902	0.902	1.00
37	17:43	1.00	0.973	1.00	50.00	50.00	1.999	1.999	1.00
38	17:37	1.00	0.968	1.00	50.00	50.00	1.564	1.564	1.00
39	17:51	1.00	0.981	1.00	50.00	50.00	0.373	0.373	1.00
40	18:19	1.00	1.006	1.00	50.00	50.00	1.228	1.228	1.00
41	18:15	1.00	1.003	1.00	50.00	50.00	0.433	0.433	1.00
42	18:33	1.00	1.019	1.00	50.00	50.00	0.250	0.250	1.00
43	18:49	1.00	1.034	1.00	50.00	50.00	1.844	1.844	1.00
44	18:49	1.00	1.034	1.00	50.00	50.00	0.400	0.400	1.00
45	19:04	1.00	1.048	1.00	50.00	50.00	0.530	0.530	1.00
46	19:55	1.00	1.094	1.00	50.00	50.00	1.464	1.464	1.00
47	19:58	1.00	1.097	1.00	50.00	50.00	0.799	0.799	1.00
48	19:53	1.00	1.092	1.00	50.00	50.00	1.882	1.882	1.00
49	20:15	1.00	1.113	1.00	50.00	50.00	0.436	0.436	1.00
50	20:20	1.00	1.117	1.00	50.00	50.00	0.342	0.342	1.00

Quantitation Report File: T2598

Data: T2598.TI
05/15/90 22:57:00
Sample: CLP,,,SSTD50,,,22658,B,CC50,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: ---

ORIGINAL (Red)

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
51	169	1225	20:25	31	1.122	A BB	30710.	50.000	NG	1.32
52	248	1292	21:32	31	1.183	A BB	14629.	50.000	NG	1.32
53	284	1316	21:56	31	1.205	A BB	17893.	50.000	NG	1.32
54	172	966	16:06	31	0.885	A BB	34842.	50.000	NG*B2	1.32
55	188	1376	22:56	55	1.000	A BB	48429.	40.000	NG/UL	1.06
56	266	1353	22:33	55	0.983	A BB	10394.	50.000	NG.	1.32
57	178	1381	23:01	55	1.004	A BV	65901.	50.000	NG	1.32
58	178	1389	23:09	55	1.009	A VB	66250.	50.000	NG	1.32
59	149	1508	25:08	55	1.096	A BB	102359.	50.000	NG	1.32
60	202	1614	26:54	55	1.173	A BB	77368.	50.000	NG	1.32
61	202	1657	27:37	63	0.875	A BB	78673.	50.000	NG.	1.32
62	330	1247	20:47	31	1.142	A BB	9398.	50.000	NG*A3	1.32
63	240	1894	31:34	63	1.000	A BB	47266.	40.000	NG/UL	1.06
64	149	1799	29:59	63	0.950	A BB	49995.	50.000	NG	1.32
65	228	1891	31:31	63	0.998	A BV	61413.	50.000	NG	1.32
66	228	1899	31:39	63	1.003	A VB	47185.	50.000	NG	1.32

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	252	1893	31:33	63	0.999	A BB	18953.	50.000	NG	1.32
68	149	1910	31:50	63	1.008	A BB	69248.	50.000	NG	1.32
69	244	1693	28:13	63	0.894	A BB	54305.	50.000	NG*B3	1.32
70	264	2197	36:37	70	1.000	A BB	39233.	40.000	NG/UL	1.06
71	149	2021	33:41	70	0.920	A BB	106765.	50.000	NG	1.32
72	252	2102	35:02	70	0.957	A BV	60363.	50.000	NG	1.32
73	252	2108	35:08	70	0.959	A VB	48961.	50.000	NG	1.32
74	252	2182	36:22	70	0.993	A BB	52923.	50.000	NG	1.32
75	276	2550	42:30	70	1.161	A BV	44985.	50.000	NG	1.32
76	278	2561	42:41	70	1.166	A BB	39989.	50.000	NG	1.32
77	276	2659	44:19	70	1.210	A BB	44854.	50.000	NG	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:25	1.00	1.122	1.00	50.00	50.00	1.141	1.141	1.00
52	21:32	1.00	1.183	1.00	50.00	50.00	0.543	0.543	1.00
53	21:56	1.00	1.205	1.00	50.00	50.00	0.665	0.665	1.00
54	16:06	1.00	0.885	1.00	50.00	50.00	1.294	1.294	1.00
55	22:56	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:33	1.00	0.983	1.00	50.00	50.00	0.172	0.172	1.00
57	23:01	1.00	1.004	1.00	50.00	50.00	1.089	1.089	1.00
58	23:09	1.00	1.009	1.00	50.00	50.00	1.094	1.094	1.00
59	25:08	1.00	1.096	1.00	50.00	50.00	1.691	1.691	1.00
60	26:54	1.00	1.173	1.00	50.00	50.00	1.278	1.278	1.00
61	27:37	1.00	0.875	1.00	50.00	50.00	1.332	1.332	1.00
62	20:47	1.00	1.142	1.00	50.00	50.00	0.349	0.349	1.00
63	31:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:59	1.00	0.950	1.00	50.00	50.00	0.846	0.846	1.00
65	31:31	1.00	0.998	1.00	50.00	50.00	1.039	1.039	1.00
66	31:39	1.00	1.003	1.00	50.00	50.00	0.799	0.799	1.00
67	31:33	1.00	0.999	1.00	50.00	50.00	0.321	0.321	1.00
68	31:50	1.00	1.008	1.00	50.00	50.00	1.172	1.172	1.00
69	28:13	1.00	0.894	1.00	50.00	50.00	0.919	0.919	1.00
70	36:37	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:41	1.00	0.920	1.00	50.00	50.00	2.177	2.177	1.00
72	35:02	1.00	0.957	1.00	50.00	50.00	1.231	1.231	1.00
73	35:08	1.00	0.959	1.00	50.00	50.00	0.998	0.998	1.00
74	36:22	1.00	0.993	1.00	50.00	50.00	1.079	1.079	1.00
75	42:30	1.00	1.161	1.00	50.00	50.00	0.917	0.917	1.00
76	42:41	1.00	1.166	1.00	50.00	50.00	0.815	0.815	1.00
77	44:19	1.00	1.210	1.00	50.00	50.00	0.915	0.915	1.00

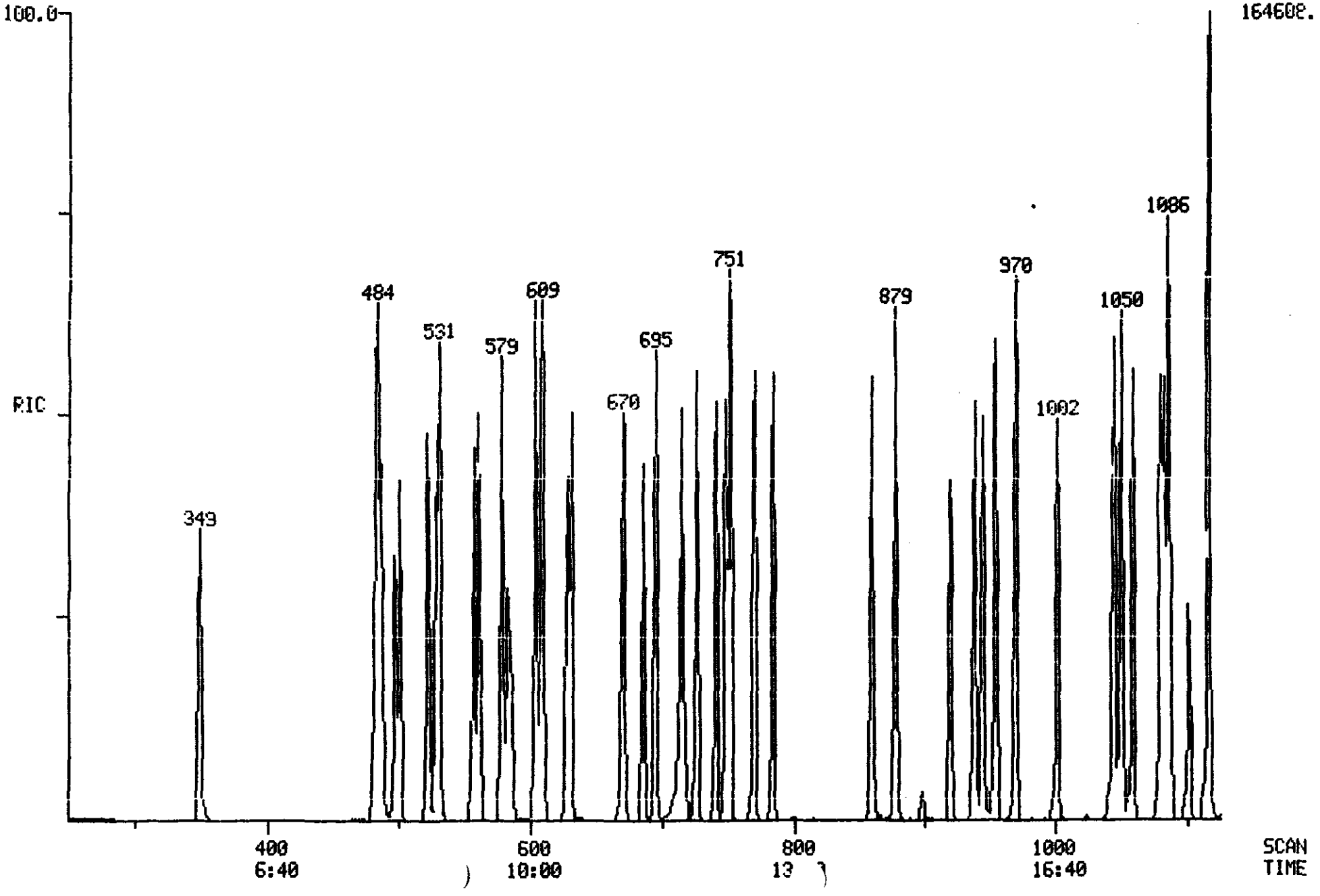
ORIGINAL (Red)

RIC
05/17/90 9:42:00
SAMPLE: CLP,,,SSTD 50,,,22658,B,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 30208C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2641 #1
CALI: T2641 #2

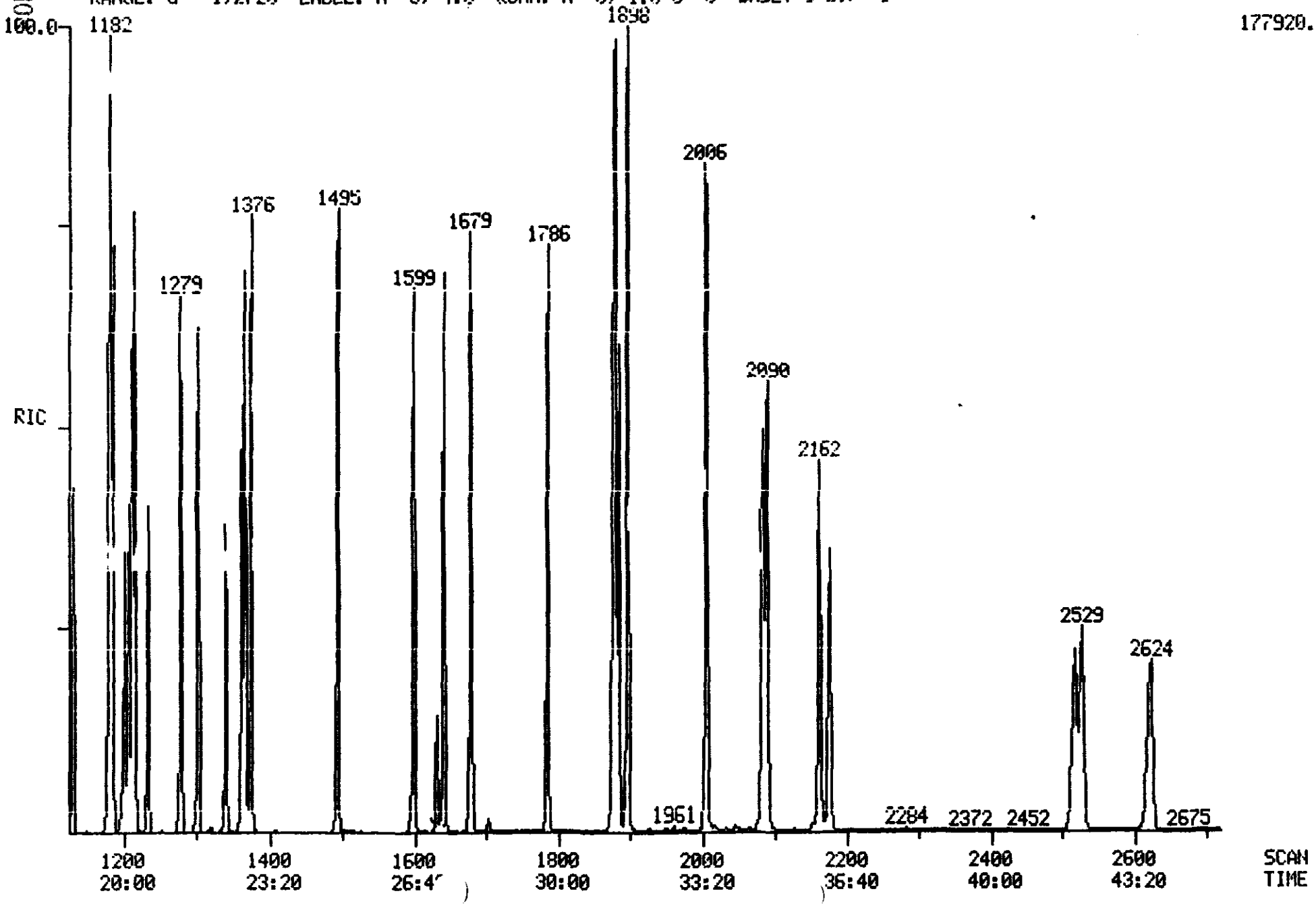
SCANS 250 TO 1125

100444



RIC DATA: T2641 #1 SCANS 1125 TO 2720
05/17/90 9:42:00 CALI: T2641 #2
SAMPLE: CLP,,,SSTD 50,,,22656,6,CC-050,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

ORIGINAL (Red)



00445

Quantitation Report File: T2641

Data: T2641.TI
5/17/90 9:42:00
Sample: CLP,,,SSTD 50,,,22658,B,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

T2641

ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	528	8:48	1	1.000	A BB	19744.	40.000 NG/UL	1.06
2	128	501	8:21	1	0.949	A BB	33690.	50.000 NG.	1.32
3	94	484	8:04	1	0.917	A BB	51216.	50.000 NG.	1.32
4	93	497	8:17	1	0.941	A VB	39651.	50.000 NG	1.32
5	146	522	8:42	1	0.969	A BB	37466.	50.000 NG	1.32
6	146	531	8:51	1	1.006	A BB	39145.	50.000 NG.	1.32
7	146	561	9:21	1	1.062	A BB	36151.	50.000 NG	1.32
8	108	557	9:17	1	1.055	A BB	24035.	50.000 NG	1.32
9	45	583	9:43	1	1.104	A BB	72485.	50.000 NG	1.32
10	108	579	9:39	1	1.097	A BB	35102.	50.000 NG	1.32
11	117	610	10:10	1	1.155	A BB	20634.	50.000 NG	1.32
12	108	604	10:04	1	1.144	A BB	36885.	50.000 NG	1.32
13	70	608	10:08	1	1.152	A BB	35450.	50.000 NG.	1.32
14	112	349	5:49	1	0.661	A BB	30030.	50.000 NG→A1	1.32
15	99	482	8:02	1	0.913	A BB	42204.	50.000 NG→A2	1.32
16	136	748	12:28	16	1.000	A BB	63415.	40.000 NG/UL	1.06
17	77	631	10:31	16	0.844	A BB	51113.	50.000 NG	1.32
18	82	670	11:10	16	0.896	A BB	93859.	50.000 NG	1.32
19	139	686	11:26	16	0.917	A BB	19314.	50.000 NG	1.32
20	107	695	11:35	16	0.929	A BB	39431.	50.000 NG	1.32
21	93	715	11:55	16	0.956	A BB	57430.	50.000 NG	1.32
22	162	726	12:06	16	0.971	A BB	30076.	50.000 NG	1.32
23	180	741	12:21	16	0.991	A BB	31822.	50.000 NG.	1.32
24	128	751	12:31	16	1.004	A BB	108093.	50.000 NG	1.32
25	122	718	11:58	16	0.960	A BB	15763.	50.000 NG	1.32
26	127	770	12:50	16	1.029	A BB	47974.	50.000 NG	1.32
27	225	784	13:04	16	1.048	A BB	23346.	50.000 NG	1.32
28	107	860	14:20	16	1.150	A BB	37713.	50.000 NG.	1.32
29	142	879	14:39	16	1.175	A BB	66459.	50.000 NG	1.32
30	82	628	10:28	16	0.840	A BB	50844.	50.000 NG→B1	1.32
31	164	1080	18:00	31	1.000	A BB	44405.	40.000 NG/UL	1.06
32	237	920	15:20	31	0.852	A BB	26057.	50.000 NG	1.32
33	196	939	15:39	31	0.869	A BV	23606.	50.000 NG	1.32
34	196	945	15:45	31	0.875	A VB	23711.	50.000 NG	1.32
35	162	970	16:10	31	0.898	A BB	68774.	50.000 NG	1.32
36	65	1002	16:42	31	0.928	A BB	39930.	50.000 NG	1.32
37	152	1050	17:30	31	0.972	A BB	108942.	50.000 NG	1.32
38	163	1045	17:25	31	0.968	A BB	82335.	50.000 NG	1.32
39	165	1059	17:39	31	0.981	A BB	19290.	50.000 NG	1.32
40	153	1086	18:06	31	1.006	A BB	69830.	50.000 NG.	1.32
41	138	1083	18:03	31	1.003	A BB	24823.	50.000 NG	1.32
42	184	1101	18:21	31	1.019	A BB	11591.	50.000 NG	1.32
43	168	1116	18:36	31	1.033	A BB	104122.	50.000 NG	1.32
44	109	1117	18:37	31	1.034	A BB	18659.	50.000 NG.	1.32
45	165	1131	18:51	31	1.047	A BB	27280.	50.000 NG.	1.32
46	166	1183	19:43	31	1.095	A BB	89247.	50.000 NG	1.32
47	204	1186	19:46	31	1.098	A BB	48096.	50.000 NG	1.32
48	149	1181	19:41	31	1.094	A BB	100275.	50.000 NG	1.32
49	138	1202	20:02	31	1.113	A BB	21929.	50.000 NG	1.32
50	198	1207	20:07	31	1.118	A BB	17824.	50.000 NG	1.32

T2641 ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:21	1.00	0.949	1.00	50.00	50.00	1.365	1.365	1.00
3	8:04	1.00	0.917	1.00	50.00	50.00	2.075	2.075	1.00
4	8:17	1.00	0.941	1.00	50.00	50.00	1.607	1.607	1.00
5	8:42	1.00	0.989	1.00	50.00	50.00	1.518	1.518	1.00
6	8:51	1.00	1.006	1.00	50.00	50.00	1.586	1.586	1.00
7	9:21	1.00	1.062	1.00	50.00	50.00	1.465	1.465	1.00
8	9:17	1.00	1.055	1.00	50.00	50.00	0.974	0.974	1.00
9	9:43	1.00	1.104	1.00	50.00	50.00	2.937	2.937	1.00
10	9:39	1.00	1.097	1.00	50.00	50.00	1.422	1.422	1.00
11	10:10	1.00	1.155	1.00	50.00	50.00	0.836	0.836	1.00
12	10:04	1.00	1.144	1.00	50.00	50.00	1.495	1.495	1.00
13	10:08	1.00	1.152	1.00	50.00	50.00	1.436	1.436	1.00
14	5:49	1.00	0.661	1.00	50.00	50.00	1.217	1.217	1.00
15	8:02	1.00	0.913	1.00	50.00	50.00	1.710	1.710	1.00
16	12:28	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:31	1.00	0.844	1.00	50.00	50.00	0.645	0.645	1.00
18	11:10	1.00	0.896	1.00	50.00	50.00	1.184	1 184	1.00
19	11:26	1.00	0.917	1.00	50.00	50.00	0.244	0.244	1.00
20	11:35	1.00	0.929	1.00	50.00	50.00	0.497	0.497	1.00
21	11:55	1.00	0.956	1.00	50.00	50.00	0.724	0.724	1.00
22	12:06	1.00	0.971	1.00	50.00	50.00	0.379	0 379	1.00
23	12:21	1.00	0.991	1.00	50.00	50.00	0.401	0.401	1.00
24	12:31	1.00	1.004	1.00	50.00	50.00	1.364	1 364	1.00
25	11:58	1.00	0.960	1.00	50.00	50.00	0.199	0.199	1.00
26	12:50	1.00	1.029	1.00	50.00	50.00	0.605	0 605	1.00
27	13:04	1.00	1.048	1.00	50.00	50.00	0.295	0.295	1.00
28	14:20	1.00	1.150	1.00	50.00	50.00	0.476	0.476	1.00
29	14:39	1.00	1.175	1.00	50.00	50.00	0.838	0.838	1.00
30	10:28	1.00	0.840	1.00	50.00	50.00	0.641	0.641	1.00
31	18:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:20	1.00	0.852	1.00	50.00	50.00	0.469	0.469	1.00
33	15:39	1.00	0.869	1.00	50.00	50.00	0.425	0.425	1.00
34	15:45	1.00	0.875	1.00	50.00	50.00	0.427	0.427	1.00
35	16:10	1.00	0.898	1.00	50.00	50.00	1.239	1.239	1.00
36	16:42	1.00	0.928	1.00	50.00	50.00	0.719	0.719	1.00
37	17:30	1.00	0.972	1.00	50.00	50.00	1.963	1.963	1.00
38	17:25	1.00	0.968	1.00	50.00	50.00	1.483	1 483	1.00
39	17:39	1.00	0.981	1.00	50.00	50.00	0.348	0.348	1.00
40	18:06	1.00	1.006	1.00	50.00	50.00	1.258	1.258	1.00
41	18:03	1.00	1.003	1.00	50.00	50.00	0.447	0.447	1.00
42	18:21	1.00	1.019	1.00	50.00	50.00	0.209	0.209	1.00
43	18:36	1.00	1.033	1.00	50.00	50.00	1.876	1.876	1.00
44	18:37	1.00	1.034	1.00	50.00	50.00	0.336	0 336	1.00
45	18:51	1.00	1.047	1.00	50.00	50.00	0.491	0.491	1.00
46	19:43	1.00	1.095	1.00	50.00	50.00	1.608	1 608	1.00
47	19:46	1.00	1.098	1.00	50.00	50.00	0.866	0.866	1.00
48	19:41	1.00	1.094	1.00	50.00	50.00	1.807	1.807	1.00
49	20:02	1.00	1.113	1.00	50.00	50.00	0.395	0.395	1.00
50	20:07	1.00	1.118	1.00	50.00	50.00	0.321	0 321	1.00

Quantitation Report File: T2641

ORIGINAL (Red)

Data: T2641.TI
5/17/90 9:42:00
Sample: CLP,,,SSTD 50,,,22658,B,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	169	1212	20:12	31	1.122	A BB	62552.	50.000 NG	1.32
52	248	1279	21:19	31	1.184	A BB	35864.	50.000 NG	1.32
53	284	1303	21:43	31	1.206	A BB	47341.	50.000 NG	1.32
54	172	955	15:55	31	0.884	A BB	71791.	50.000 NG*B2	1.32
55	188	1363	22:43	55	1.000	A BV	100640.	40.000 NG/UL	1.06
56	266	1340	22:20	55	0.983	A BB	24266.	50.000 NG.	1.32
57	178	1367	22:47	55	1.003	A BV	146636.	50.000 NG	1.32
58	178	1376	22:56	55	1.010	A VB	136912.	50.000 NG	1.32
59	149	1495	24:55	55	1.097	A BB	174305.	50.000 NG	1.32
60	202	1599	26:39	55	1.173	A BB	166540.	50.000 NG	1.32
61	202	1643	27:23	63	0.874	A BB	174355.	50.000 NG.	1.32
62	330	1234	20:34	31	1.143	A BB	19860.	50.000 NG*A3	1.32
63	240	1880	31:20	63	1.000	A BB	117132.	40.000 NG/UL	1.06
64	149	1786	29:46	63	0.950	A BB	76736.	50.000 NG	1.32
65	228	1877	31:17	63	0.998	A BV	153746.	50.000 NG	1.32
66	228	1885	31:25	63	1.003	A VB	113824.	50.000 NG	1.32

T2641 ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	252	1879	31:19	63	0.999	A BB	49928.	50.000	NG	1.32
68	149	1898	31:38	63	1.010	A BB	114559.	50.000	NC	1.32
69	244	1679	27:59	63	0.893	A BB	127561.	50.000	NG+B3	1.32
70	264	2176	36:16	70	1.000	A BB	106298.	40.000	NC/UL	1.06
71	149	2006	33:26	70	0.922	A BB	192811.	50.000	NG	1.32
72	252	2084	34:44	70	0.958	A BV	172404.	50.000	NC	1.32
73	252	2090	34:50	70	0.960	A VB	128891.	50.000	NG	1.32
74	252	2162	36:02	70	0.994	A BV	143417.	50.000	NC	1.32
75	276	2519	41:59	70	1.158	A BV	109957.	50.000	NG	1.32
76	278	2529	42:09	70	1.162	A BB	110104.	50.000	NC	1.32
77	276	2624	43:44	70	1.206	A BB	110226.	50.000	NG	1.32

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:12	1.00	1.122	1.00	50.00	50.00	1.127	1.127	1.00
52	21:19	1.00	1.184	1.00	50.00	50.00	0.646	0.646	1.00
53	21:43	1.00	1.206	1.00	50.00	50.00	0.853	0.853	1.00
54	15:55	1.00	0.884	1.00	50.00	50.00	1.293	1.293	1.00
55	22:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:20	1.00	0.983	1.00	50.00	50.00	0.193	0.193	1.00
57	22:47	1.00	1.003	1.00	50.00	50.00	1.166	1.166	1.00
58	22:56	1.00	1.010	1.00	50.00	50.00	1.088	1.088	1.00
59	24:55	1.00	1.097	1.00	50.00	50.00	1.386	1.386	1.00
60	26:39	1.00	1.173	1.00	50.00	50.00	1.324	1.324	1.00
61	27:23	1.00	0.874	1.00	50.00	50.00	1.191	1.191	1.00
62	20:34	1.00	1.143	1.00	50.00	50.00	0.358	0.358	1.00
63	31:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:46	1.00	0.950	1.00	50.00	50.00	0.524	0.524	1.00
65	31:17	1.00	0.998	1.00	50.00	50.00	1.050	1.050	1.00
66	31:25	1.00	1.003	1.00	50.00	50.00	0.777	0.777	1.00
67	31:19	1.00	0.999	1.00	50.00	50.00	0.341	0.341	1.00
68	31:38	1.00	1.010	1.00	50.00	50.00	0.782	0.782	1.00
69	27:59	1.00	0.893	1.00	50.00	50.00	0.871	0.871	1.00
70	36:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:26	1.00	0.922	1.00	50.00	50.00	1.451	1.451	1.00
72	34:44	1.00	0.958	1.00	50.00	50.00	1.298	1.298	1.00
73	34:50	1.00	0.960	1.00	50.00	50.00	0.970	0.970	1.00
74	36:02	1.00	0.994	1.00	50.00	50.00	1.079	1.079	1.00
75	41:59	1.00	1.158	1.00	50.00	50.00	0.828	0.828	1.00
76	42:09	1.00	1.162	1.00	50.00	50.00	0.829	0.829	1.00
77	43:44	1.00	1.206	1.00	50.00	50.00	0.830	0.830	1.00

ORIGINAL (Red)

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Lab File ID (Standard): T2583 Date Analyzed: 05/15/90

Instrument ID: T Time Analyzed: 942

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	15600	9.09	52400	12.77	40100	18.34
	UPPER LIMIT	31200		104800		80200	
	LOWER LIMIT	7800		26200		20050	
	EPA SAMPLE NO.						
01	1	15300	9.12	47500	12.79	41000	18.35
02	6	15700	9.12	47400	12.80	40700	18.37
03	1MS	17100	9.12	52400	12.80	47600	18.37
04	1MSD	16500	9.14	51000	12.82	45400	18.39
05	SBLK82	15800	9.12	48200	12.79	38800	18.35

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 1/87 Rev.

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Lab File ID (Standard): T2583 Date Analyzed: 05/15/90

Instrument ID: T Time Analyzed: 942

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	81500	23.07	72800	31.71	61200	36.86
	UPPER LIMIT	163000		145600		122400	
	LOWER LIMIT	40750		36400		30600	
	EPA SAMPLE NO.						
01	1	72400	23.10	63700	31.76	59100	36.96
02	6	105000	23.12	101000	31.77	91200	36.97
03	1MS	89800	23.12	86400	31.77	82200	37.02
04	1MSD	95600	23.12	91300	31.79	85300	37.03
05	SBLK82	80400	23.09	73200	31.72	63900	36.89

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-2 1/87 Rev

100452

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Lab File ID (Standard): T2598 Date Analyzed: 05/15/90

Instrument ID: T Time Analyzed: 2257

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	8000	8.99	27500	12.65	21500	18.20
	UPPER LIMIT	16000		55000		43000	
	LOWER LIMIT	4000		13750		10750	
	EPA SAMPLE NO.						
01	5	9680	8.99	29500	12.65	22900	18.22

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 1/87 Rev.

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Lab File ID (Standard): T2598 Date Analyzed: 05/15/90

Instrument ID: T Time Analyzed: 2257

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	48400	22.94	47300	31.57	39200	36.62
	UPPER LIMIT	96800		94600		78400	
	LOWER LIMIT	24200		23650		19600	
	EPA SAMPLE NO.						
01	5	57000	22.94	57700	31.57	54400	36.62

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-2 1/87 Rev.

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Lab File ID (Standard): T2624 Date Analyzed: 05/16/90

Instrument ID: T Time Analyzed: 1701

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	21200	8.90	67100	12.57	45500	18.10
	UPPER LIMIT	42400		134200		91000	
	LOWER LIMIT	10600		33550		22750	
	EPA SAMPLE NO.						
01	2	31000	8.92	96300	12.57	63500	18.12
02	3	32000	8.92	99600	12.59	66000	18.12
03	7	32200	8.92	101000	12.59	69100	18.12
04	SBLK66	29500	8.92	92700	12.57	61100	18.12

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-1 1/87 Rev.

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

ORIGINAL

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Lab File ID (Standard): T2624 Date Analyzed: 05/16/90

Instrument ID: T Time Analyzed: 1701

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	110000	22.84	130000	31.46	121000	36.44
	UPPER LIMIT	220000		260000		242000	
	LOWER LIMIT	55000		65000		60500	
	EPA SAMPLE NO.						
01	2	150000	22.84	198000	31.46	175000	36.42
02	3	151000	22.84	195000	31.47	171000	36.44
03	7	163000	22.84	181000	31.46	182000	36.44
04	SBLK66	129000	22.84	170000	31.46	170000	36.44

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

FORM VIII SV-2 1/87 Rev.

8B

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Lab File ID (Standard): T2641 Date Analyzed: 05/17/90

Instrument ID: T Time Analyzed: 942

		IS1(DCB) AREA #	RT	IS2(NPT) AREA #	RT	IS3(ANT) AREA #	RT
	12 HOUR STD	19700	8.80	63400	12.47	44400	18.00
	UPPER LIMIT	39400		126800		88800	
	LOWER LIMIT	9850		31700		22200	
	EPA SAMPLE NO.						
01	SBLK65	21400	8.82	68000	12.47	45000	18.00

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

8C

SEMIVOLATILE INTERNAL STANDARD AREA SUMMARY

ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Lab File ID (Standard): T2641 Date Analyzed: 05/17/90

Instrument ID: T Time Analyzed: 942

		IS4(PHN) AREA #	RT	IS5(CRY) AREA #	RT	IS6(PRY) AREA #	RT
	12 HOUR STD	101000	22.72	117000	31.34	106000	36.27
	UPPER LIMIT	202000		234000		212000	
	LOWER LIMIT	50500		58500		53000	
	EPA SAMPLE NO.						
01	SBLK65	95200	22.72	124000	31.34	109000	36.26

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

UPPER LIMIT = + 100% of internal standard area.
LOWER LIMIT = - 50% of internal standard area.

Column used to flag internal standard area values with an asterisk

ORIGINAL
(Red)

Versar INC.

V. RAW QC DATA

MASS SPECTRUM
05/14/90 17:23:00 + 9:21
SAMPLE: DFTPP 50NG 1UL
CONDS.: INSTRUMENT T COLUMN: RESTEK 30M RTX-5 1MIN@50C TO 300C @ 25C/MIN

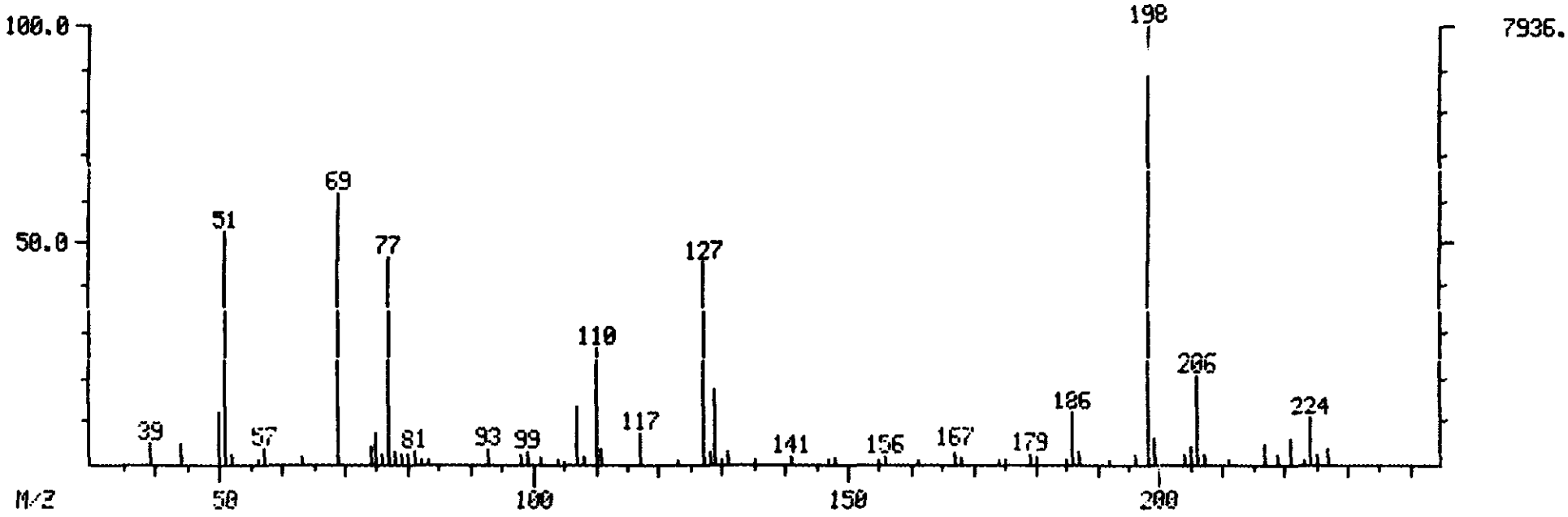
DATA: T2568 #561
CALI: T2563 #2

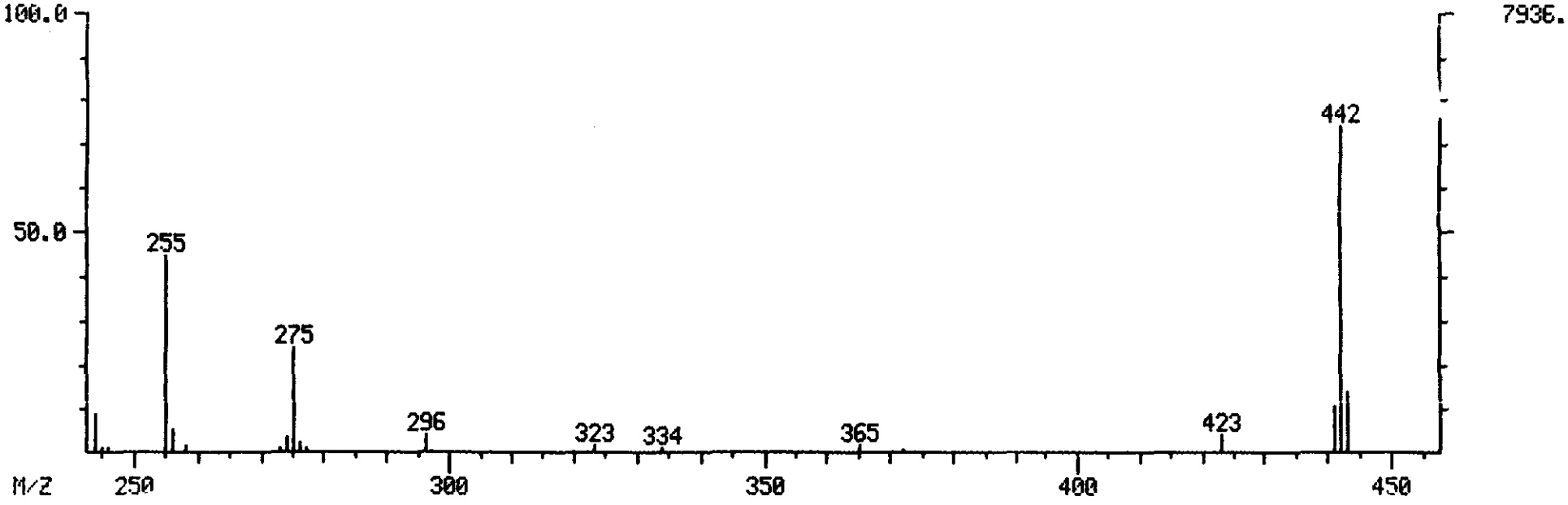
BASE M/Z: 198
RIC: 61248.

ORIGINAL (Red)

100430

#561 TO #562 SUMMED





Mass List
05/14/90 17:23:00 + 9:21
Sample: DFTPP 50NG 1UL
Conds.: INSTRUMENT T COLUMN: RESTEK 30M RTX-5 1MIN@50C TO 300C @ 25C/MIN
#561 to #562 Summed

Data: T2568 # 561
Cali: T2568 # 2

Base m/z: 198
RIC: 61218.

ORIGINAL
(Red)

39	0.00	0.00	0.	Minima	Min inten:	0.
443			# 0	Maxima		

Mass	% RA	% RIC	Inten.	Mass	% RA	% RIC	Inten.
39.00?	4.64	0.60	368.	186.00	12.03	1.56	955.
44.00?	5.08	0.66	403.	187.00	3.20	0.41	254.
50.00?	11.86	1.54	941.	192.00	0.92	0.12	73.
51.00?	52.92	6.86	4200.	196.00	2.33	0.30	185.
52.00?	2.48	0.32	197.	198.00	100.00	12.96	7936
56.00?	1.41	0.18	112.	199.00	5.97	0.77	474.
57.00?	3.77	0.49	299.	204.00	2.33	0.30	185.
63.00?	1.73	0.22	137.	205.00	4.11	0.53	326.
69.00	61.79	8.01	4904.	206.00	20.46	2.65	1624.
74.00	3.96	0.51	314.	207.00	2.51	0.32	199.
75.00	7.02	0.91	557.	211.00	1.01	0.13	80
76.00	2.24	0.29	178.	217.00	4.80	0.62	381.
77.00	46.87	6.07	3720.	219.00	2.62	0.34	208
78.00	3.00	0.39	238.	221.00	5.93	0.77	471.
79.00	2.48	0.32	197.	223.00	1.13	0.15	90.
80.00	2.10	0.27	167.	224.00	10.80	1.40	857.
81.00	3.28	0.42	260.	225.00	2.52	0.33	200
82.00	0.95	0.12	75.	227.00	3.55	0.46	282.
83.00	0.96	0.12	76.	244.00	8.86	1.15	703.
93.00	3.73	0.48	296.	245.00	1.06	0.14	84.
98.00	2.58	0.33	205.	246.00	1.25	0.16	99.
99.00	2.71	0.35	215.	255.00	45.01	5.83	3572.
101.00	1.84	0.24	146.	256.00	5.68	0.74	451.
104.00	0.95	0.12	75.	258.00	1.84	0.24	146.
105.00	0.88	0.11	70.	273.00	1.17	0.15	93.
107.00	13.31	1.72	1056.	274.00	3.88	0.50	308.
108.00	1.90	0.25	151.	275.00	23.89	3.10	1896.
110.00	26.21	3.40	2080.	276.00	2.68	0.35	213.
111.00	3.57	0.46	283.	277.00	1.44	0.19	114.
117.00	7.27	0.94	577.	296.00	4.07	0.53	323.
123.00	1.11	0.14	88.	323.00	1.78	0.23	141.
127.00	45.41	5.88	3604.	334.00	1.08	0.14	85.
128.00	3.21	0.42	255.	365.00	2.00	0.26	159.
129.00	17.64	2.29	1400.	372.00	0.88	0.11	70.
130.00	1.23	0.16	98.	423.00	4.47	0.58	355.
131.00	3.29	0.43	261.	441.00	10.92	1.42	867.
135.00	1.31	0.17	104.	442.00	74.19	9.61	5888.
141.00	1.63	0.21	129.	443.00	13.89	1.80	1102.
147.00	0.96	0.12	76.				
148.00	1.84	0.24	146.				
155.00	1.02	0.13	81.				
156.00	1.69	0.22	134.				
161.00	0.95	0.12	75.				
167.00	3.45	0.45	274.				
168.00	1.75	0.23	139.				
174.00	0.91	0.12	72.				
175.00	1.30	0.17	103.				
179.00	2.62	0.34	208.				
180.00	1.81	0.24	144.				
185.00	1.16	0.15	92.				

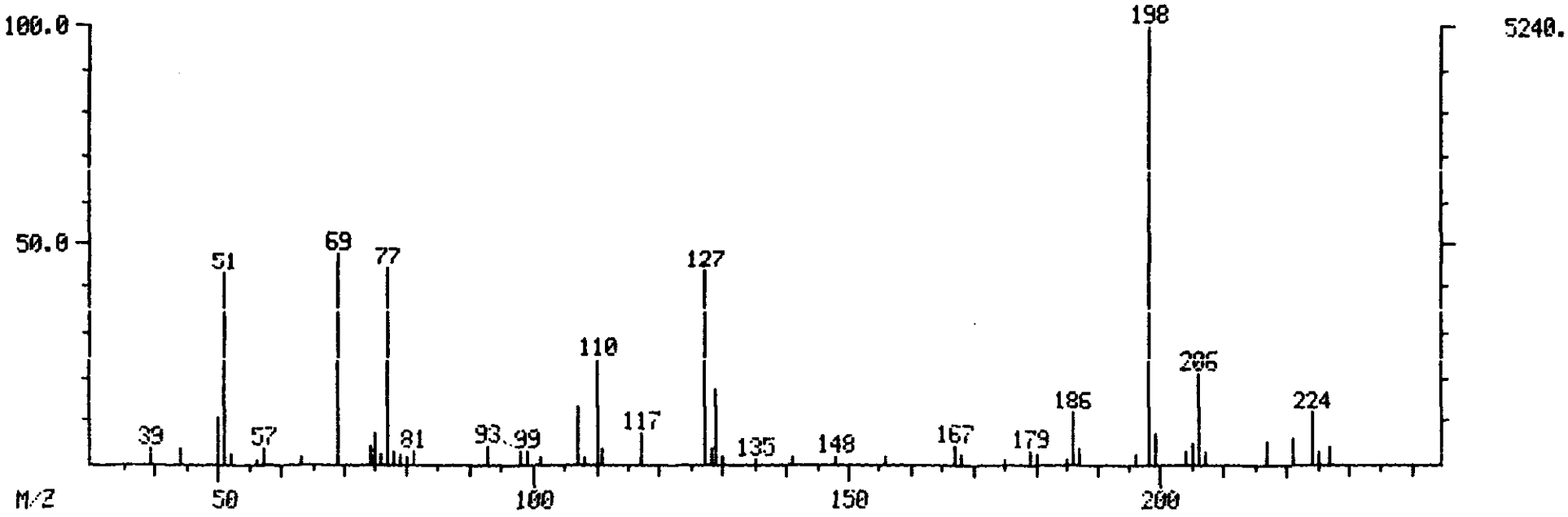
MASS SPECTRUM
05/15/90 9:12:00 + 9:31
SAMPLE: DFTPP 50NG 1UL
CONDS.· INSTRUMENT T COLUMN: RESTEK 30M RTX-5 1MIN@50C TO 300C @ 25C/MIN

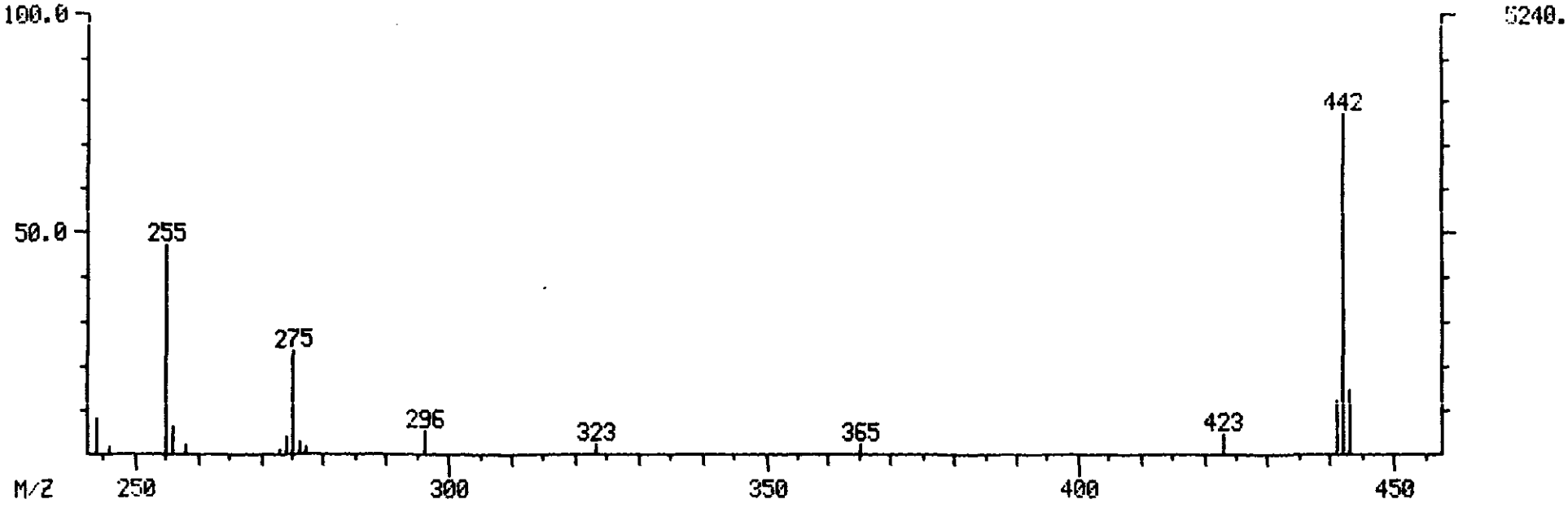
DATA: T2582 #571
CALI: T2582 #2

BASE M/Z: 198
RIC: 38784.

106462

#571





Mass List
05/15/90 9:12:00 + 9:31
Sample: DFTPP 50NG 1UL
Conds.: INSTRUMENT T COLUMN: RESTEK 30M RTX-5 1MIN@50C TO 300C @ 25C/MIN
#571

Data: T2582 # 571
Cali: T2582 # 2

Base m/z: 198
RIC: 38784.

ORIGINAL (Red)

39 0.00 0.00 0. Minima Min inten: 0.
443 # 0 Maxima

Mass	% RA	% RIC	Inten.
39.00?	3.68	0.50	193.
44.00?	3.49	0.47	183.
50.00?	11.07	1.50	580.
51.00?	42.82	5.79	2244.
52.00?	2.37	0.32	124.
56.00?	1.34	0.18	70.
57.00?	3.40	0.46	178.
63.00?	1.60	0.22	84.
69.00	48.17	6.51	2524.
74.00	4.08	0.55	214.
75.00	7.00	0.95	367.
76.00	2.42	0.33	127.
77.00	44.05	5.95	2308.
78.00	3.00	0.40	157.
79.00	2.56	0.35	134.
80.00	1.97	0.27	103.
81.00	3.24	0.44	170.
93.00	3.99	0.54	209.
98.00	3.02	0.41	158.
99.00	3.15	0.43	165.
101.00	1.76	0.24	92.
107.00	12.90	1.74	676.
108.00	1.95	0.26	102.
110.00	23.85	3.22	1250.
111.00	3.47	0.47	182.
117.00	7.00	0.95	367.
127.00	43.59	5.89	2284.
128.00	3.55	0.48	186.
129.00	17.40	2.35	912.
130.00	1.55	0.21	81.
135.00	1.34	0.18	70.
141.00	1.91	0.26	100.
148.00	2.02	0.27	106.
156.00	1.87	0.25	98.
167.00	3.93	0.53	206.
168.00	2.37	0.32	124.
175.00	1.49	0.20	78.
179.00	3.03	0.41	159.
180.00	2.10	0.28	110.
185.00	1.47	0.20	77.
186.00	11.97	1.62	627.
187.00	3.84	0.52	201.
196.00	2.40	0.32	126.
198.00	100.00	13.51	5240.
199.00	7.31	0.99	383.
204.00	2.73	0.37	143.
205.00	4.56	0.62	239.
206.00	21.15	2.86	1108.
207.00	3.11	0.42	163.
217.00	5.61	0.76	294.

Mass	% RA	% RIC	Inten.
221.00	5.95	0.80	312.
224.00	11.77	1.59	617.
225.00	2.92	0.39	153.
227.00	4.39	0.59	230.
244.00	8.65	1.17	453.
246.00	1.56	0.21	82.
255.00	47.10	6.36	2468
256.00	6.83	0.92	358.
258.00	2.42	0.33	127.
273.00	1.47	0.20	77.
274.00	4.45	0.60	233.
275.00	23.47	3.17	1230.
276.00	3.17	0.43	166.
277.00	1.77	0.24	93.
296.00	5.40	0.73	283.
323.00	2.31	0.31	121.
365.00	2.60	0.35	136.
423.00	4.66	0.63	244.
441.00	11.85	1.60	621.
442.00	77.33	10.45	4052.
443.00	14.31	1.93	750.

ORIGINAL (Red)

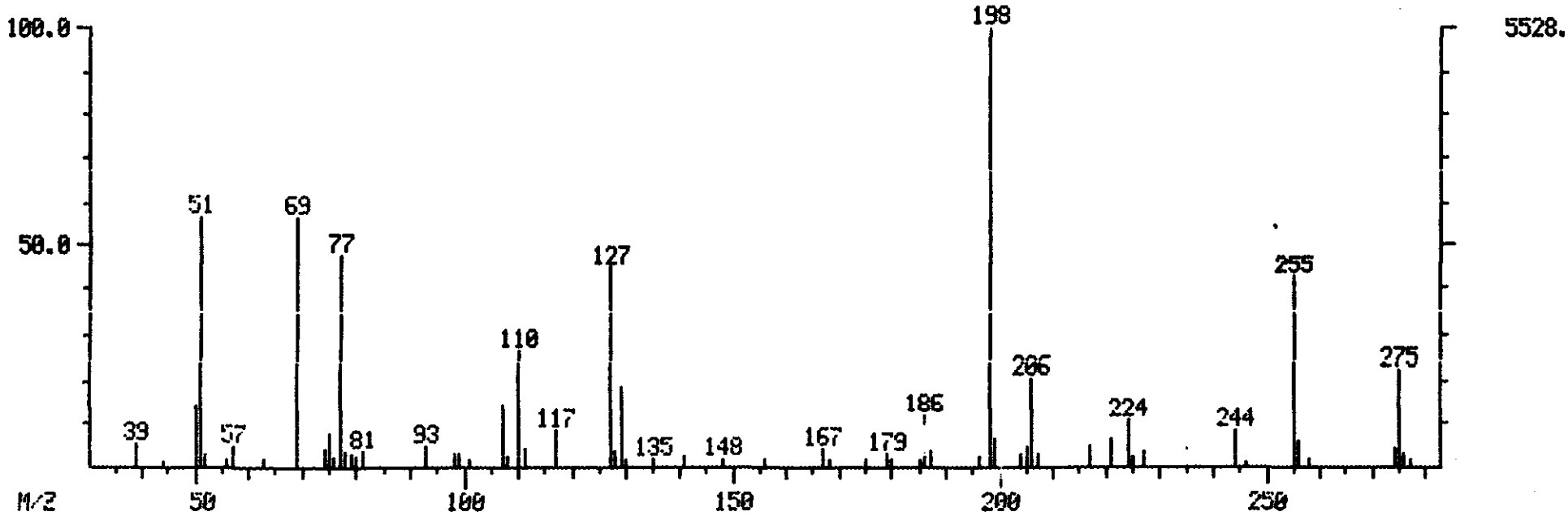
MASS SPECTRUM
05/15/90 22:40:00 + 9:13
SAMPLE: DFTPP 50NG 1UL
CONDS.: INSTRUMENT T COLUMN: RESTEK 30M RTX-5 1MIN@50C TO 300C @ 25C/MIN

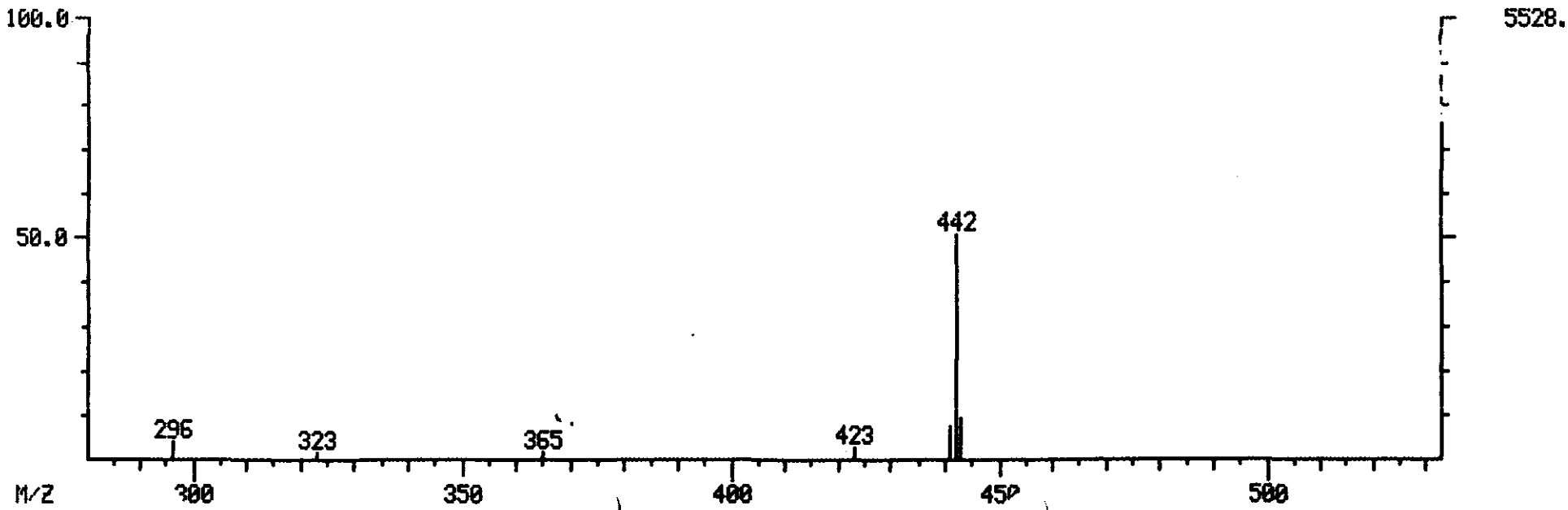
DATA: T2597 #553
CALI: T2597 #2

BASE M/Z: 198
RIC: 40768.

100464

#553





Mass List Data: T2597 # 553 Base m/z: 198
05/15/90 22:40:00 + 9:13 Cali: T2597 # 2 RIC: 40768
Sample: DFTPP 50NG 1UL
Conds.: INSTRUMENT T COLUMN: RESTEK 30M RTX-5 1MIN@50C TO 300C @ 25C/MIN
#553

ORIGINAL (RED)

39 0.00 0.00 0. Minima Min inten: 0.
443 # 0 Maxima

Mass	% RA	% RIC	Inten.	Mass	% RA	% RIC	Inten.
39.00?	5.59	0.76	309.	221.00	6.55	0.69	362.
44.00?	1.39	0.19	77.	224.00	10.80	1.46	597.
50.00?	14.22	1.93	786.	225.00	2.68	0.36	148.
51.00?	57.02	7.73	3152.	227.00	3.87	0.52	214.
52.00?	2.84	0.39	157.	244.00	8.29	1.12	459.
56.00?	1.72	0.23	95.	246.00	1.39	0.19	77.
57.00?	4.72	0.64	261.	255.00	42.62	5.78	2356.
63.00?	2.01	0.27	111.	256.00	6.15	0.83	340.
69.00	56.66	7.68	3132.	258.00	2.06	0.28	114.
74.00	4.27	0.58	236.	274.00	4.43	0.60	245.
75.00	7.49	1.02	414.	275.00	22.03	2.99	1218
76.00	2.44	0.33	135.	276.00	2.89	0.39	160.
77.00	47.90	6.50	2648.	277.00	1.61	0.22	89.
78.00	3.36	0.46	186.	296.00	4.43	0.60	245.
79.00	2.97	0.40	164.	323.00	1.74	0.24	96
80.00	2.44	0.33	135.	365.00	1.95	0.26	108.
81.00	3.85	0.52	213.	423.00	3.15	0.43	174.
93.00	4.69	0.64	259.	441.00	7.71	1.04	426.
98.00	3.08	0.42	170.	442.00	50.65	6.87	2800.
99.00	3.17	0.43	175.	443.00	9.52	1.29	526.
101.00	1.81	0.25	100.				
107.00	14.56	1.97	805.				
108.00	2.15	0.29	119.				
110.00	26.16	3.55	1446.				
111.00	4.14	0.56	229.				
117.00	8.09	1.10	447.				
127.00	44.93	6.09	2484.				
128.00	3.44	0.47	190.				
129.00	18.67	2.53	1032.				
130.00	1.72	0.23	95.				
135.00	1.57	0.21	87.				
141.00	2.10	0.28	116.				
148.00	2.06	0.28	114.				
156.00	1.94	0.26	107.				
167.00	4.14	0.56	229.				
168.00	1.94	0.26	107.				
175.00	1.54	0.21	85.				
179.00	2.86	0.39	158.				
180.00	2.06	0.28	114.				
185.00	1.57	0.21	87.				
186.00	12.23	1.66	676.				
187.00	3.53	0.48	195.				
196.00	2.68	0.36	148.				
198.00	100.00	13.56	5528.				
199.00	6.73	0.91	372.				
204.00	2.71	0.37	150.				
205.00	4.81	0.65	266.				
206.00	20.22	2.74	1118.				
207.00	2.79	0.38	154.				
217.00	5.05	0.68	279.				

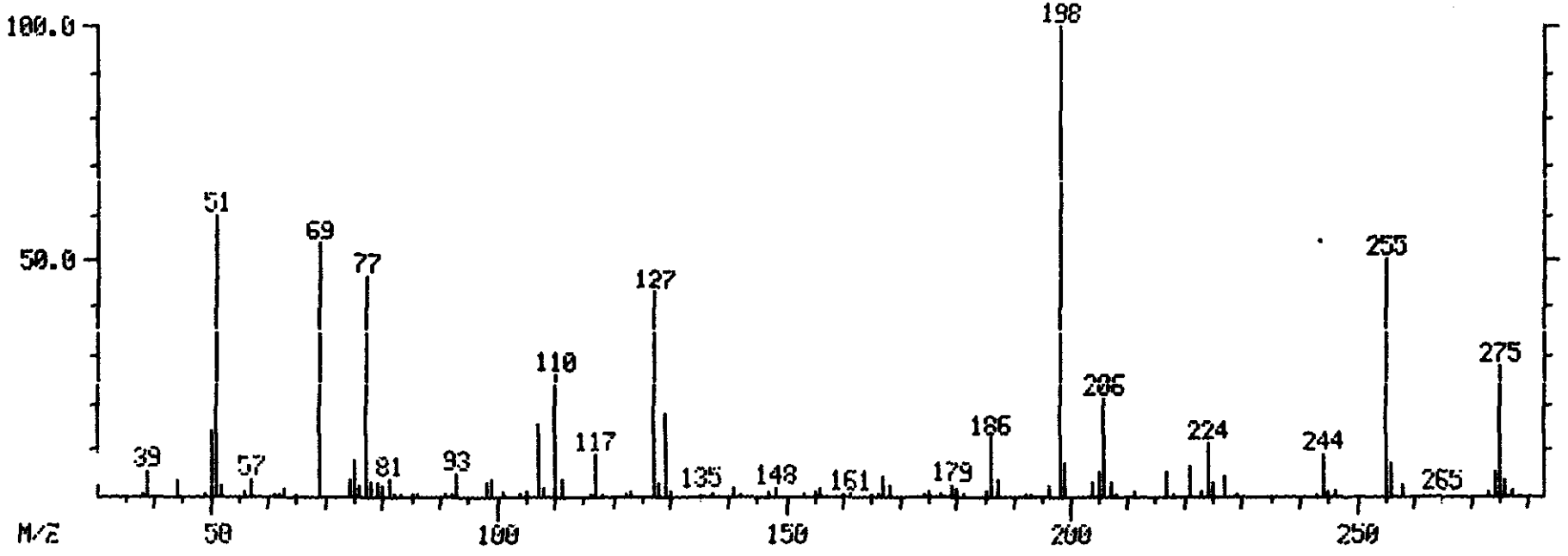
100465

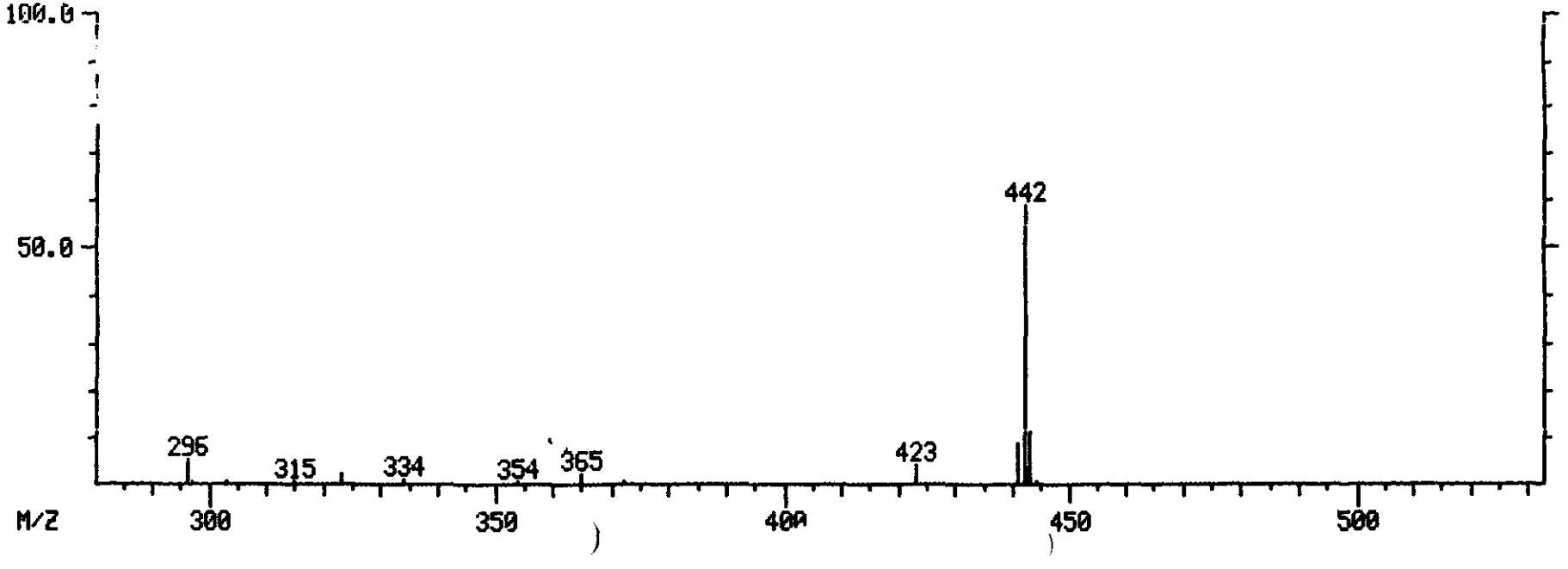
MASS SPECTRUM
05/16/90 16:44:00 + 6:44
SAMPLE: CLP,,,SSTD50,,,22656,6,CC050,,,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN

DATA: T2623 #524
CALI: T2621 #2

BASE M/Z: 198
RIC: 131584.

#524 TO #525 SUMMED





Mass List Data: T2623 # 524 Base m/z: 198
05/16/90 16:44:00 + 8:44 Cali: T2621 # 2 RIC: 131594.
Sample: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
onds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
#524 to #525 Summed

ORIGINAL (Red)

38 0.00 0.00 0. Minima Min inten: 107.
444 # 0 Maxima

Mass	% RA	% RIC	Inten.	Mass	% RA	% RIC	Inten.
38.00?	0.69	0.09	114.	167.00	4.05	0.51	668.
39.00?	5.35	0.67	882.	168.00	2.58	0.32	425.
44.00?	3.88	0.49	640.	174.00	0.73	0.09	121.
50.00?	14.44	1.81	2380.	175.00	1.32	0.16	217.
51.00?	59.81	7.49	9856.	177.00	0.66	0.08	109.
52.00?	2.58	0.32	425.	179.00	2.68	0.34	442.
56.00?	1.47	0.18	242.	180.00	1.61	0.20	265.
57.00?	3.46	0.43	571.	181.00	0.81	0.10	134.
63.00?	1.78	0.22	294.	185.00	1.24	0.16	205.
65.00?	0.78	0.10	129.	186.00	12.86	1.61	2120.
69.00	54.08	6.77	8912.	187.00	3.79	0.47	624.
74.00	3.60	0.45	594.	192.00	0.79	0.10	131
75.00	7.55	0.95	1244.	193.00	0.79	0.10	130.
76.00	2.22	0.28	366.	196.00	2.14	0.27	352.
77.00	46.84	5.87	7720.	198.00	100.00	12.52	16480.
78.00	2.96	0.37	488.	199.00	6.94	0.87	1144.
79.00	2.85	0.36	470.	204.00	2.83	0.35	466.
80.00	2.12	0.27	349.	205.00	5.12	0.64	844.
81.00	3.66	0.46	603.	206.00	20.68	2.59	3408.
82.00	0.78	0.10	129.	207.00	2.89	0.36	477.
83.00	0.78	0.10	128.	211.00	1.06	0.13	174
86.00	0.86	0.11	142.	217.00	5.30	0.66	873.
92.00	0.69	0.09	114.	221.00	6.53	0.82	1076.
93.00	4.84	0.61	797.	223.00	1.03	0.13	170.
98.00	3.11	0.39	513.	224.00	11.35	1.42	1870.
99.00	3.58	0.45	590.	225.00	2.85	0.36	470.
101.00	1.45	0.18	239.	227.00	4.39	0.55	724.
104.00	0.81	0.10	134.	229.00	0.73	0.09	120.
105.00	0.96	0.12	158.	244.00	9.16	1.15	1510.
107.00	15.29	1.92	2520.	245.00	0.96	0.12	159.
108.00	1.81	0.23	299.	246.00	1.22	0.15	201.
110.00	25.97	3.25	4280.	255.00	50.49	6.32	8320
111.00	3.82	0.48	629.	256.00	7.23	0.91	1192.
117.00	8.83	1.11	1456.	258.00	2.29	0.29	378.
118.00	0.71	0.09	117.	265.00	0.69	0.09	114
123.00	1.09	0.14	179.	273.00	1.23	0.15	203.
127.00	43.25	5.42	7128.	274.00	5.33	0.67	879.
128.00	2.82	0.35	464.	275.00	27.43	3.44	4520.
129.00	17.84	2.23	2940.	276.00	3.54	0.44	584.
130.00	1.35	0.17	222.	277.00	1.47	0.18	243.
135.00	1.21	0.15	199.	296.00	5.63	0.71	928.
137.00	0.70	0.09	116.	323.00	2.49	0.31	410.
141.00	1.72	0.22	284.	334.00	1.06	0.13	174.
142.00	0.66	0.08	108.	365.00	2.42	0.30	399.
147.00	1.01	0.13	166.	372.00	0.87	0.11	144.
148.00	1.71	0.21	281.	423.00	3.95	0.49	651.
155.00	0.95	0.12	156.	441.00	9.15	1.15	1508.
156.00	1.57	0.20	258.	442.00	58.83	7.37	9696.
161.00	0.84	0.11	139.	443.00	11.38	1.43	1876.
166.00	0.65	0.08	107.				

100467

ORIGINAL (Red)

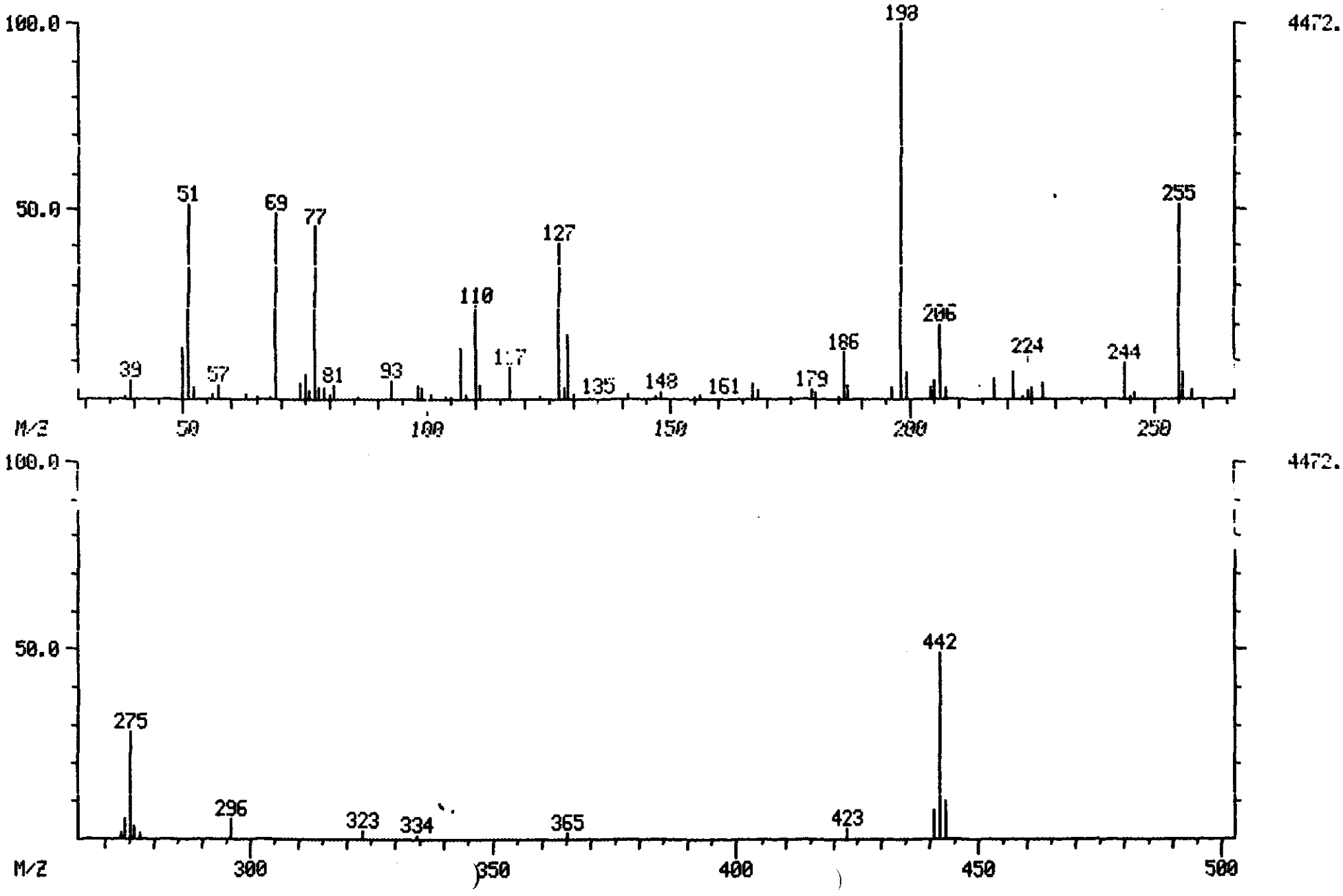
MASS SPECTRUM
05/17/90 9:23:00 + 9:29
SAMPLE: DFTPP 50NG 1UL
CONDS.: INSTRUMENT T COLUMN: RESTEK 30M RTX-5 1MIN@50C TO 300C @ 25C/MIN

DATA: T2640 #569
CALI: T2640 #2

BASE M/Z: 198
RIC: 32704.

100468

ENHANCED (S 15B 2N 0T)



Mass List Data: T2640 # 569 Base m/z: 198
05/17/90 9:23:00 + 9:29 Cali: T2640 # 2 RIC: 32704
Sample: DFTPP 50NG 1UL
'onds.: INSTRUMENT T COLUMN: RESTEK 30M RTX-5 1MIN@50C TO 300C @ 25C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

38 0.00 0.00 0. Minima Min inten: 0.
443 # 0 Maxima

Mass	% RA	% RIC	Inten.	Mass	% RA	% RIC	Inten.
38.00?	0.58	0.08	26.	187.00	3.64	0.50	163.
39.00?	4.67	0.64	209.	196.00	2.73	0.37	122.
50.00?	13.62	1.86	609.	198.00	100.00	13.67	4472.
51.00?	51.25	7.01	2292.	199.00	6.89	0.94	308.
52.00?	2.75	0.38	123.	204.00	2.82	0.39	126.
56.00?	1.12	0.15	50.	205.00	5.01	0.68	224.
57.00?	3.44	0.47	154.	206.00	20.06	2.74	897.
63.00?	1.30	0.18	58.	207.00	2.80	0.38	125.
65.00?	0.60	0.08	27.	217.00	5.32	0.73	238.
68.00?	0.60	0.08	27.	221.00	6.98	0.95	312.
69.00	49.02	6.70	2192.	223.00	0.72	0.10	32.
74.00	3.96	0.54	177.	224.00	11.43	1.56	511.
75.00	6.42	0.88	287.	225.00	3.09	0.42	138.
76.00	2.50	0.34	112.	227.00	4.43	0.61	198.
77.00	45.75	6.26	2046.	244.00	9.77	1.34	437.
78.00	3.04	0.42	136.	245.00	0.54	0.07	24.
79.00	2.82	0.39	126.	246.00	1.77	0.24	79.
80.00	1.43	0.20	64.	255.00	51.79	7.08	2316.
81.00	3.56	0.49	159.	256.00	7.04	0.96	315.
86.00	0.69	0.09	31.	258.00	2.39	0.33	107.
93.00	4.54	0.62	203.	273.00	1.57	0.21	70.
98.00	3.44	0.47	154.	274.00	5.30	0.72	237.
99.00	3.06	0.42	137.	275.00	27.91	3.82	1248
101.00	1.12	0.15	50.	276.00	3.78	0.52	169.
104.00	0.67	0.09	30.	277.00	1.86	0.25	83
105.00	0.69	0.09	31.	296.00	5.28	0.72	236.
107.00	13.98	1.91	625.	323.00	2.37	0.32	106.
108.00	1.41	0.19	63.	334.00	1.14	0.16	51.
110.00	24.37	3.33	1090.	365.00	2.01	0.28	90.
111.00	3.76	0.51	168.	423.00	3.02	0.41	135.
117.00	8.30	1.13	371.	441.00	7.71	1.05	345
123.00	0.65	0.09	29.	442.00	49.19	6.73	2200.
127.00	40.83	5.58	1826.	443.00	9.97	1.36	446.
128.00	3.20	0.44	143.				
129.00	17.24	2.36	771.				
130.00	0.98	0.13	44.				
135.00	0.89	0.12	40.				
141.00	1.23	0.17	55.				
147.00	0.76	0.10	34.				
148.00	1.97	0.27	88.				
155.00	0.69	0.09	31.				
156.00	1.14	0.16	51.				
161.00	0.63	0.09	28.				
167.00	4.23	0.58	189.				
168.00	2.28	0.31	102.				
175.00	0.83	0.11	37.				
179.00	2.59	0.35	116.				
180.00	2.01	0.28	90.				
185.00	0.81	0.11	36.				
186.00	12.79	1.75	572.				

100469

Versar INC.

ORIGINAL
(Red)

REAGENT BLANK DATA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK66 ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK66

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2630

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/16/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	350	U
111-44-4	bis(2-Chloroethyl)ether	350	U
95-57-8	2-Chlorophenol	350	U
541-73-1	1,3-Dichlorobenzene	350	U
106-46-7	1,4-Dichlorobenzene	350	U
100-51-6	Benzyl alcohol	350	U
95-50-1	1,2-Dichlorobenzene	350	U
95-48-7	2-Methylphenol	350	U
108-60-1	bis(2-Chloroisopropyl)ether	350	U
106-44-5	4-Methylphenol	350	U
621-64-7	N-Nitroso-di-n-propylamine	350	U
67-72-1	Hexachloroethane	350	U
98-95-3	Nitrobenzene	350	U
78-59-1	Isophorone	350	U
88-75-5	2-Nitrophenol	350	U
105-67-9	2,4-Dimethylphenol	350	U
65-85-0	Benzoic Acid	1700	U
111-91-1	bis(2-Chloroethoxy)methane	350	U
120-83-2	2,4-Dichlorophenol	350	U
120-82-1	1,2,4-Trichlorobenzene	350	U
91-20-3	Naphthalene	350	U
106-47-8	4-Chloroaniline	350	U
87-68-3	Hexachlorobutadiene	350	U
59-50-7	4-Chloro-3-methylphenol	350	U
91-57-6	2-Methylnaphthalene	350	U
77-47-4	Hexachlorocyclopentadiene	350	U
88-06-2	2,4,6-Trichlorophenol	350	U
95-95-4	2,4,5-Trichlorophenol	1700	U
91-58-7	2-Chloronaphthalene	350	U
88-74-4	2-Nitroaniline	1700	U
131-11-3	Dimethylphthalate	350	U
208-96-8	Acenaphthylene	350	U
606-20-2	2,6-Dinitrotoluene	350	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK66 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK66

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2630

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/16/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 0.50

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	1700	U
83-32-9	Acenaphthene	350	U
51-28-5	2,4-Dinitrophenol	1700	U
100-02-7	4-Nitrophenol	1700	U
132-64-9	Dibenzofuran	350	U
121-14-2	2,4-Dinitrotoluene	350	U
84-66-2	Diethylphthalate	350	U
7005-72-3	4-Chlorophenyl-phenylether	350	U
86-73-7	Fluorene	350	U
100-01-6	4-Nitroaniline	1700	U
534-52-1	4,6-Dinitro-2-methylphenol	1700	U
86-30-6	N-nitrosodiphenylamine (1)	350	U
101-55-3	4-Bromophenyl-phenylether	350	U
118-74-1	Hexachlorobenzene	350	U
87-86-5	Pentachlorophenol	1700	U
85-01-8	Phenanthrene	350	U
120-12-7	Anthracene	350	U
84-74-2	Di-n-butylphthalate	350	U
206-44-0	Fluoranthene	350	U
129-00-0	Pyrene	350	U
85-68-7	Butylbenzylphthalate	350	U
91-94-1	3,3'-Dichlorobenzidine	690	U
56-55-3	Benzo(a)anthracene	350	U
218-01-9	Chrysene	350	U
117-81-7	bis(2-Ethylhexyl)phthalate	350	U
117-84-0	Di-n-octyl phthalate	350	U
205-99-2	Benzo(b)fluoranthene	350	U
207-08-9	Benzo(k)fluoranthene	350	U
50-32-8	Benzo(a)pyrene	350	U
193-39-5	Indeno(1,2,3-cd)pyrene	350	U
53-70-3	Dibenz(a,h)anthracene	350	U
191-24-2	Benzo(g,h,i)perylene	350	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK66 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK66

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2630

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/16/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 0.50

Number TICs found: 3

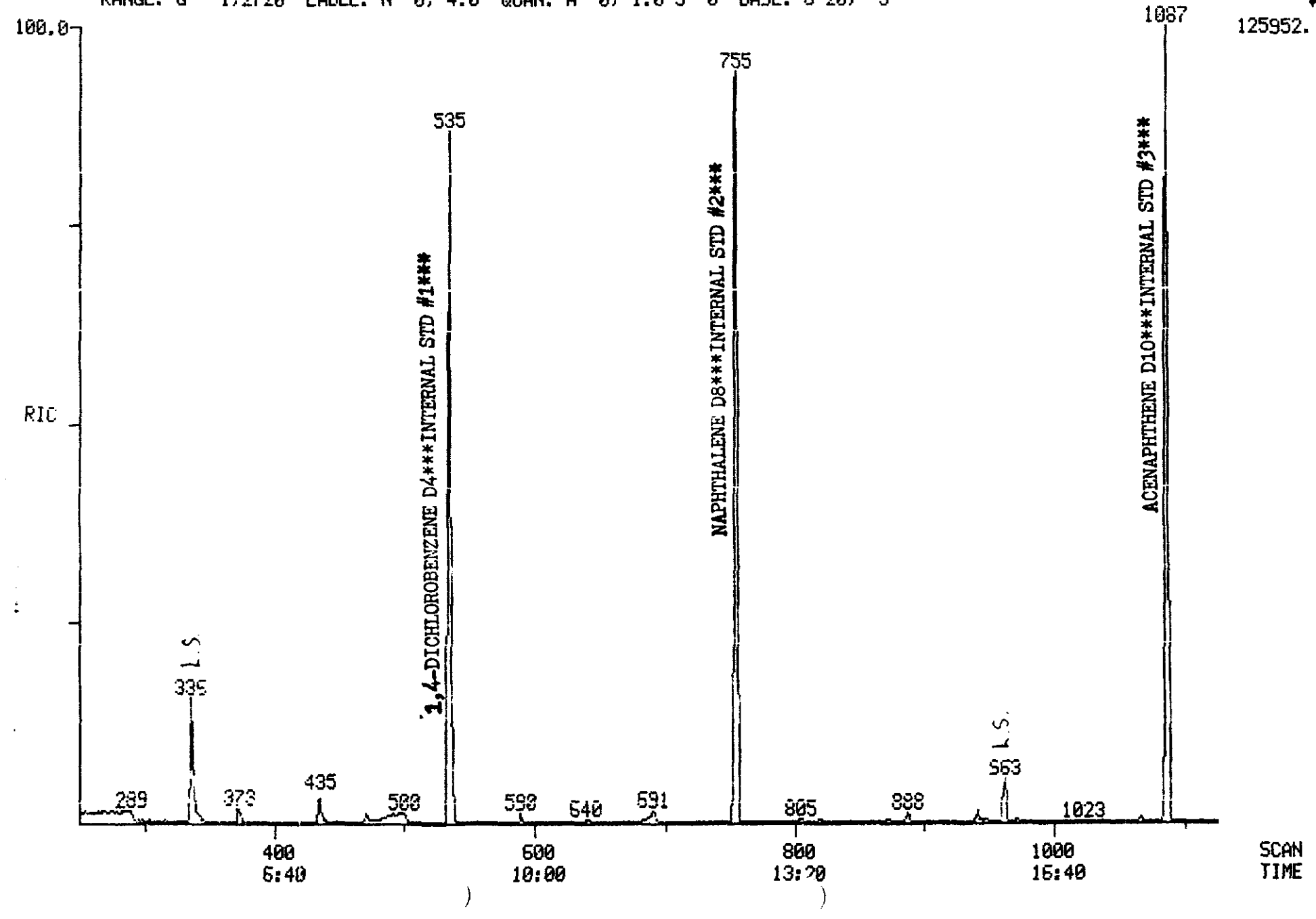
CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
	UNKNOWN	5.60	520	J
74367-34-3	PROPANOIC ACID, 2-METHYL-3-HYDRO	16.05	190	J
	UNKNOWN	34.02	620	J

JZB

RIC DATA: T2630 #1 SCANS 250 TO 1125
05/16/90 23:20:00 CALI: T2630 #2
SAMPLE: CLP,VERSCDM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

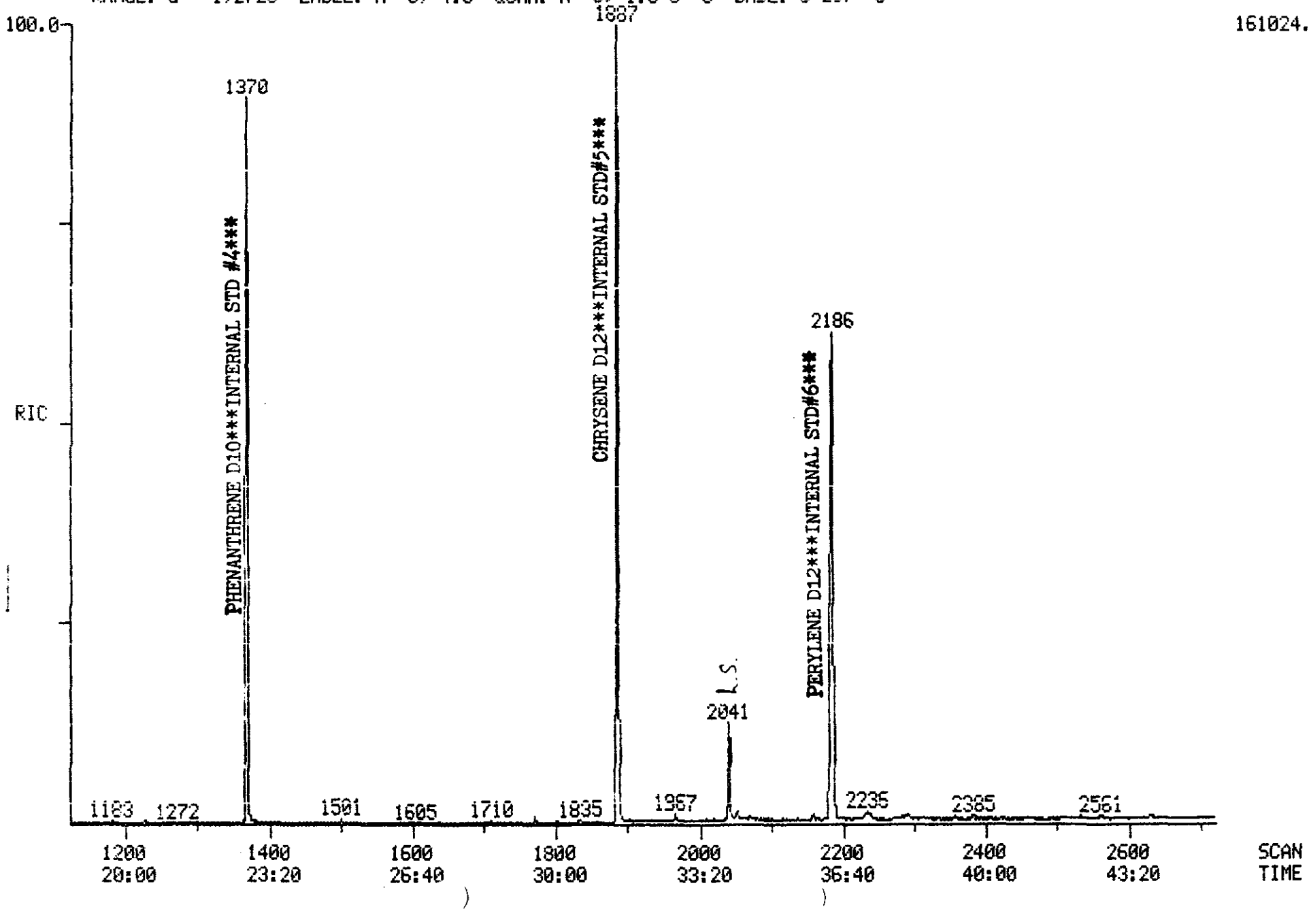
100474



ORIGINAL (Red)

RIC
05/16/90 23:20:00
DATA: T2630 #1
CALI: T2630 #2
SCANS 1125 TO 2720
SAMPLE: CLP,VERSCDM,2536,SBLK66,L,S,PB7966,B,BLK,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

100475



Quantitation Report File: T2630

Data: T2630.TI
05/16/90 23:20:00
Sample: CLP,VERSCDM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
1	C130 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	C140 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	C150 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

✓ 5/23/90

ENGI/ALBA
B#2 RB 7957

ENGI HARL RB 7958
B#4

ICF ARROW RB 7964
B#10

PNSY RB 7965
B#1

are soil Reagent Blanks extracted on ~~5/16/90~~ 4/26/90

5/17/90

100476

T2630

ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	535	8:55	1	1.000	A BB	29461.	40.000 NG/UL	16.65
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
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	136	754	12:34	16	1.000	A BB	92709.	40.000 NG/UL	16.65
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	164	1087	18:07	31	1.000	A BB	61119.	40.000 NG/UL	16.65
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	149	1186	19:46	31	1.091	A BB	211.	~~0.075 NG~~	0.03
49	NOT FOUND								
50	NOT FOUND								

T2630

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:27		0.949						
3	8:10		0.918						
4	8:23		0.942						
5	8:48		0.989						
6	8:57		1.006						
7	9:27		1.062						
8	9:23		1.054						
9	9:49		1.103						
10	9:45		1.096						
11	10:16		1.154						
12	10:10		1.142						
13	10:14		1.150						
14	5:54		0.663						
15	8:08		0.914						
16	12:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:37		0.845						
18	11:16		0.897						
19	11:32		0.918						
20	11:41		0.930						
21	12:01		0.956						
22	12:12		0.971						
23	12:27		0.991						
24	12:38		1.005						
25	12:02		0.958						
26	12:56		1.029						
27	13:10		1.048						
28	14:26		1.149						
29	14:45		1.174						
30	10:34		0.841						
31	18:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:27		0.854						
33	15:45		0.870						
34	15:51		0.876						
35	16:17		0.900						
36	16:48		0.928						
37	17:37		0.973						
38	17:31		0.968						
39	17:45		0.981						
40	18:13		1.006						
41	18:09		1.003						
42	18:28		1.020						
43	18:43		1.034						
44	18:43		1.034						
45	18:58		1.048						
46	19:49		1.095						
47	19:52		1.098						
48	19:47	1.00	1.093	1.00	0.07	50.00	0.003	1.842	0.00
49	20:09		1.113						
50	20:14		1.118						

Quantitation Report File: T2630

ORIGINAL (Red)

Data: T2630.TI
05/16/90 23:20:00
Sample: CLP,VERSCDM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@6C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	188	1370	22:50	55	1.000	A BB	128879.	40.000 NG/UL	16.65
56	NOT FOUND								
57	NOT FOUND								
58	NOT FOUND								
59	149	1501	25:01	55	1.096	A BB	1241.	~~0.268 NG~~	0.11
60	NOT FOUND								
61	NOT FOUND								
62	NOT FOUND								
63	240	1887	31:27	63	1.000	A BB	170167.	40.000 NG/UL	16.65
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								

T2630

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	NOT FOUND									
68	NOT FOUND									
69	NOT FOUND									
70	264	2186	36:26	70	1.000	A BB	170400.	40.000	NG/UL	16.65
71	NOT FOUND									
72	NOT FOUND									
73	NOT FOUND									
74	NOT FOUND									
75	NOT FOUND									
76	NOT FOUND									
77	NOT FOUND									

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:19		1.122						
52	21:26		1.184						
53	21:50		1.206						
54	16:01		0.885						
55	22:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:27		0.983						
57	22:54		1.003						
58	23:03		1.009						
59	25:01	1.00	1.096	1.00	0.27	50.00	0.008	1.439	0.01
60	26:47		1.173						
61	27:30		0.874						
62	20:40		1.142						
63	31:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:53		0.950						
65	31:24		0.998						
66	31:32		1.003						
67	31:26		0.999						
68	31:44		1.009						
69	28:06		0.893						
70	36:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:33		0.921						
72	34:53		0.957						
73	34:58		0.960						
74	36:11		0.993						
75	42:13		1.159						
76	42:24		1.164						
77	44:00		1.208						

Quantitation Report File: QCREF

ORIGINAL (Red)

Data: T2630.TI
05/16/90 23:20:00
Sample: CLP,VERSCDM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

Scan	Time	Area(Hght)	Amount	Name
535	8:55	29461.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
754	12:34	92709.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1087	18:07	61119.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1370	22:50	128879.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1887	31:27	170167.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD
2186	36:26	170400.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
NOT FOUND				
NOT FOUND				
NOT FOUND				
NOT FOUND				
NOT FOUND				
NOT FOUND				

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	31:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	36:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	5:54		0.663						
8	8:08		0.914						
9	20:40		1.142						
10	10:34		0.841						
11	16:01		0.885						
12	28:06		0.893						

Quantitation Report File: ISREF

Data: T2624.TI
05/16/90 17:01:00
Sample: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ____

Data: T2630.TI
05/16/90 23:20:00
Sample: CLP,VERSCDM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ---

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD. #2**
4	CI40 NAPHTHALENE-D8**INT. STD. #2**
5	CI50 ACENAPHTHENE-D10**INT. STD. #3**
6	CI50 ACENAPHTHENE-D10**INT. STD. #3**
7	CI60 PHENANTHRENE-D10**INT. STD. #4**
8	CI60 PHENANTHRENE-D10**INT. STD. #4**
9	CI70 CHRYSENE-D12**INT. STD. #5**
10	CI70 CHRYSENE-D12**INT. STD. #5**
11	CI75 PERYLENE-D12**INT. STD. #6**
12	CI75 PERYLENE-D12**INT. STD. #6**

Scan	Time	Area(Hght)	Amount	Name
534	8:54	21230.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
535	8:55	29461.	55.508 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
754	12:34	67127.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
754	12:34	92709.	55.244 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1086	18:06	45485.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1087	18:07	61119.	53.749 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1370	22:50	109533.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1370	22:50	128879.	47.065 NG/UL	CI60 PHENANTHRENE-D10**INT.
1887	31:27	129519.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
1887	31:27	170167.	52.554 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2186	36:26	121131.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
2186	36:26	170400.	56.270 NG/UL	CI75 PERYLENE-D12**INT. STD.

ORIGINAL (Red)

Library Search Data: T2630 # 336 Base m/z: 41
05/16/90 23:20:00 + 5:36 Cali: T2630 # 2 RIC: 15119.
Sample: CLP,VERSCDM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
108 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1076	1-PROPENE, 3,3'-OXYBIS-
2	2216	2-HEPTENAL, (Z)-
3	1111	2-HEXENAL, (E)-
4	11012	4-DODECENE, (E)-
5	11013	5-DODECENE, (E)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H10.O	98	41	761	876	791
2	C7.H12.O	112	41	739	895	762
3	C6.H10.O	98	41	738	875	810
4	C12.H24	168	55	672	748	739
5	C12.H24	168	55	672	748	739

Rank	Ret.Time	B.F.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	557-40-4
2	—	—	—	—	57266-86-1
3	—	—	—	—	6728-26-3
4	—	—	—	—	7206-15-7
5	—	—	—	—	7206-16-8

$\frac{25}{136} = 51\%$

calculated from peak hgt.
JEB

100483

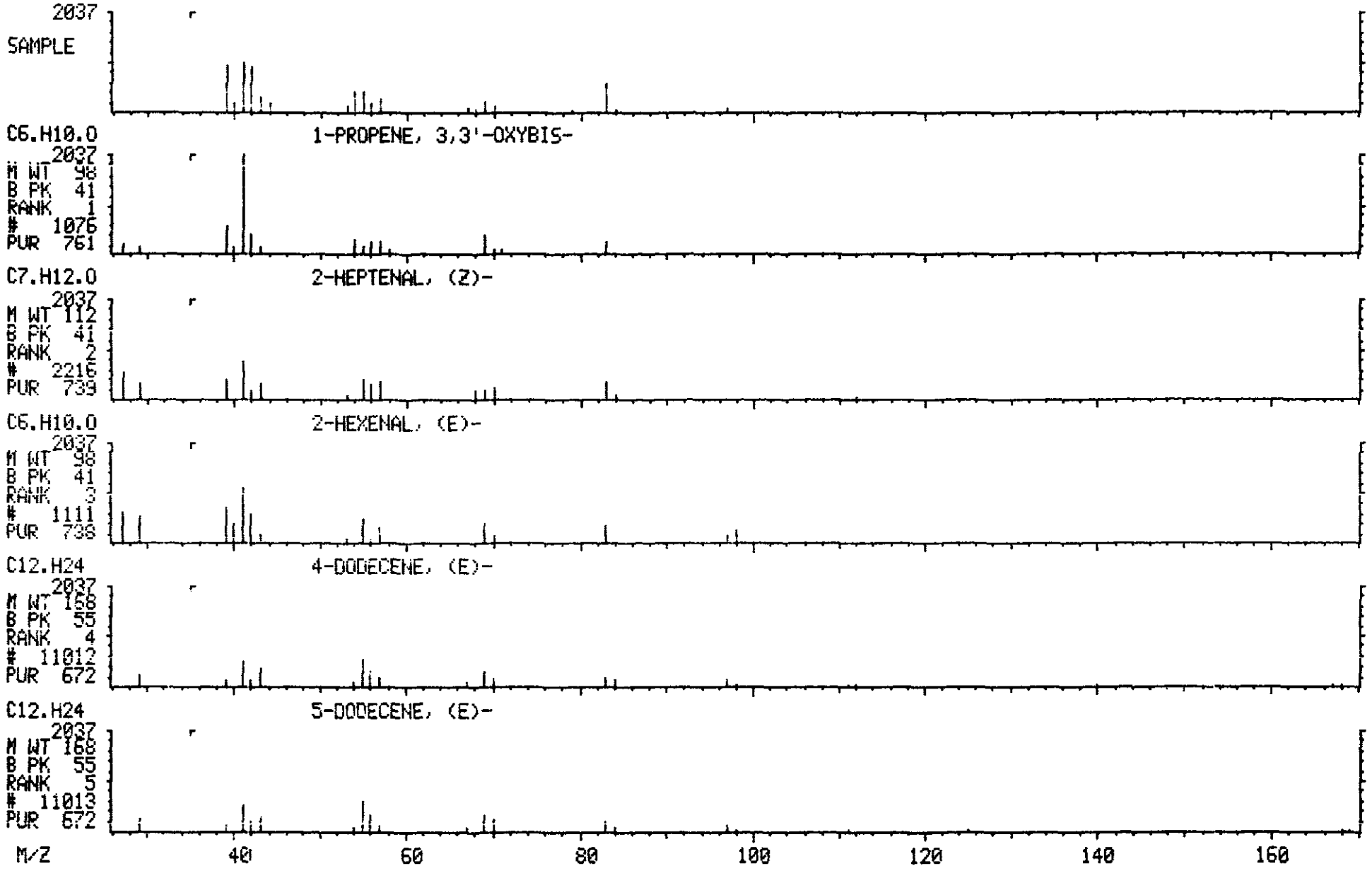
ORIGINAL (Red)

LIBRARY SEARCH
05/16/90 23:20:00 + 5:36
SAMPLE: CLP,VERSCOM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2630 # 336
CALI: T2630 # 2

BASE M/Z: 41
RIC: 15119.

100484



ORIGINAL (Red)

Library Search · Data: T2630 # 963 Base m/z: 43
05/16/90 23:20:00 + 16:03 Cali: T2630 # 2 RIC: 5943.
Sample: CLP,VERSCDM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
164 matched at least 7 of the 15 largest peaks in the unknown

Rank	In.	Name
1	18987	PROPANOIC ACID, 2-METHYL-, 3-HYDROXY-2,4,4-TRIMETHYLPENTYL ESTER
2	18984	PROPANOIC ACID, 2-METHYL-, 2-ETHYL-3-HYDROXYHEXYL ESTER
3	6965	1-BUTANOL, 4-BUTOXY-
4	12033	1-BUTANOL, 4-(HEXYLOXY)-
5	14192	PROPANOIC ACID, 2-METHYL-, HEPTYL ESTER

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C12.H24.O3	216	71	869	898	957
2	C12.H24.O3	216	43	810	867	916
3	C8.H18.O2	146	57	744	774	800
4	C10.H22.O2	174	43	718	754	830
5	C11.H22.O2	186	43	687	776	841

Rank	Ret.Time	B.P.Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	74367-34-3
2	—	—	—	—	74367-31-0
3	—	—	—	—	4161-24-4
4	—	—	—	—	4541-13-3
5	—	—	—	—	2349-13-5

$\frac{10}{150}$ 187

calculated from peak hgt.

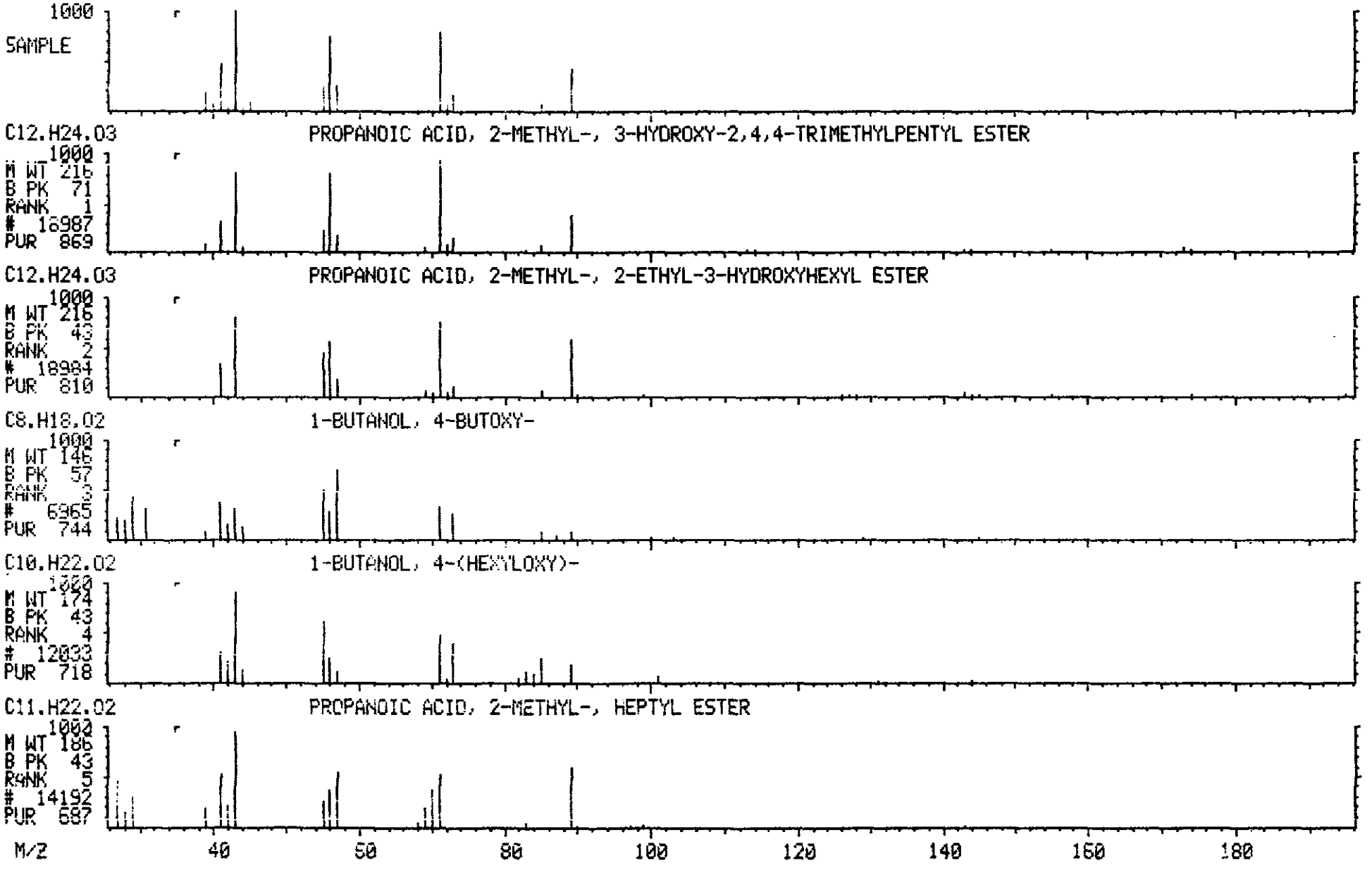
100485

LIBRARY SEARCH
05/16/90 23:20:00 + 16:03
SAMPLE: CLP,VERSCOM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2630 # 963
CALI: T2630 # 2

BASE M/Z: 43
RIC: 5943.

100486



ORIGINAL

Library Search Data: T2630 #2041 Base m/z: 59
05/16/90 23:20:00 + 34:01 Cali: T2630 # 2 RIC: 17343.
Sample: CLP,VERSCDM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNB searched for maximum PURITY
88 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	27222	9-OCTADECENAMIDE, (Z)-
2	1394	PENTANAMIDE
3	14253	3-DODECANOL
4	11398	4-HEXEN-1-OL, 5-METHYL-2-(1-METHYLETHENYL)-, MONOEPOXIDE
5	3737	ETHANONE, 1-(3-ETHYLCYCLOBUTYL)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H35.O.N	281	59	551	808	666
2	C5.H11.O.N	101	59	484	821	508
3	C12.H26.O	186	59	478	870	529
4	C10.H18.O2	170	59	435	807	507
5	C8.H14.O	126	43	431	656	464

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	301-02-0
2	—	—	—	—	626-97-1
3	—	—	—	—	10203-30-2
4	—	—	—	—	72509-75-2
5	—	—	—	—	56335-71-8

$\frac{21}{95}$ 620

calculated from peak hgt.

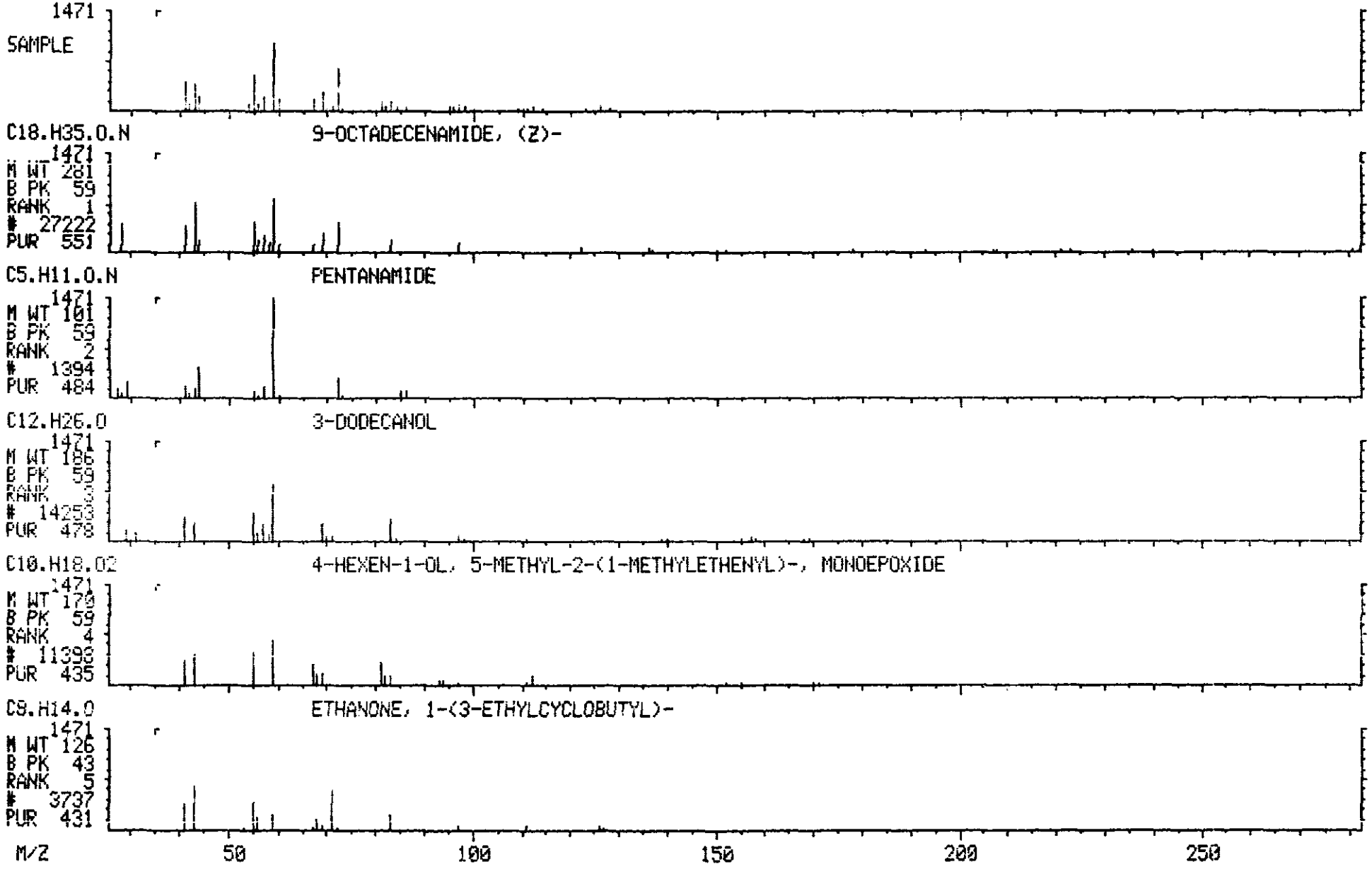
100487

LIBRARY SEARCH
05/16/90 23:20:00 + 34:01
SAMPLE: CLP,VERSCOM,2536,SBLK66,L,S,RB7966,B,BLK,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2630 #2041
CALI: T2630 # 2

BASE M/Z: 59
RIC: 17343.

100488



1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK65 ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2554 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK65

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2642

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	660	U
111-44-4	bis(2-Chloroethyl)ether	660	U
95-57-8	2-Chlorophenol	660	U
541-73-1	1,3-Dichlorobenzene	660	U
106-46-7	1,4-Dichlorobenzene	660	U
100-51-6	Benzyl alcohol	660	U
95-50-1	1,2-Dichlorobenzene	660	U
95-48-7	2-Methylphenol	660	U
108-60-1	bis(2-Chloroisopropyl)ether	660	U
106-44-5	4-Methylphenol	660	U
621-64-7	N-Nitroso-di-n-propylamine	660	U
67-72-1	Hexachloroethane	660	U
98-95-3	Nitrobenzene	660	U
78-59-1	Isophorone	660	U
88-75-5	2-Nitrophenol	660	U
105-67-9	2,4-Dimethylphenol	660	U
65-85-0	Benzoic Acid	3200	U
111-91-1	bis(2-Chloroethoxy)methane	660	U
120-83-2	2,4-Dichlorophenol	660	U
120-82-1	1,2,4-Trichlorobenzene	660	U
91-20-3	Naphthalene	660	U
106-47-8	4-Chloroaniline	660	U
87-68-3	Hexachlorobutadiene	660	U
59-50-7	4-Chloro-3-methylphenol	660	U
91-57-6	2-Methylnaphthalene	660	U
77-47-4	Hexachlorocyclopentadiene	660	U
88-06-2	2,4,6-Trichlorophenol	660	U
95-95-4	2,4,5-Trichlorophenol	3200	U
91-58-7	2-Chloronaphthalene	660	U
88-74-4	2-Nitroaniline	3200	U
131-11-3	Dimethylphthalate	660	U
208-96-8	Acenaphthylene	660	U
606-20-2	2,6-Dinitrotoluene	660	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK65 ORIGINAL

La. Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2554 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK65

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2642

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	3200	U
83-32-9	Acenaphthene	660	U
51-28-5	2,4-Dinitrophenol	3200	U
100-02-7	4-Nitrophenol	3200	U
132-64-9	Dibenzofuran	660	U
121-14-2	2,4-Dinitrotoluene	660	U
84-66-2	Diethylphthalate	660	U
7005-72-3	4-Chlorophenyl-phenylether	660	U
86-73-7	Fluorene	660	U
100-01-6	4-Nitroaniline	3200	U
534-52-1	4,6-Dinitro-2-methylphenol	3200	U
86-30-6	N-nitrosodiphenylamine (1)	660	U
101-55-3	4-Bromophenyl-phenylether	660	U
118-74-1	Hexachlorobenzene	660	U
87-86-5	Pentachlorophenol	3200	U
85-01-8	Phenanthrene	660	U
120-12-7	Anthracene	660	U
84-74-2	Di-n-butylphthalate	660	U
206-44-0	Fluoranthene	660	U
129-00-0	Pyrene	660	U
85-68-7	Butylbenzylphthalate	660	U
91-94-1	3,3'-Dichlorobenzidine	1300	U
56-55-3	Benzo(a)anthracene	660	U
218-01-9	Chrysene	660	U
117-81-7	bis(2-Ethylhexyl)phthalate	660	U
117-84-0	Di-n-octyl phthalate	660	U
205-99-2	Benzo(b)fluoranthene	660	U
207-08-9	Benzo(k)fluoranthene	660	U
50-32-8	Benzo(a)pyrene	660	U
193-39-5	Indeno(1,2,3-cd)pyrene	660	U
53-70-3	Dibenz(a,h)anthracene	660	U
191-24-2	Benzo(g,h,i)perylene	660	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK65

La. Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2554 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK65

Sample wt/vol: 30.0 (g/mL) G Lab File ID: T2642

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/26/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/17/90

GPC Cleanup: (Y/N) Y pH: _____ Dilution Factor: 1.0

Number TICs found: 5

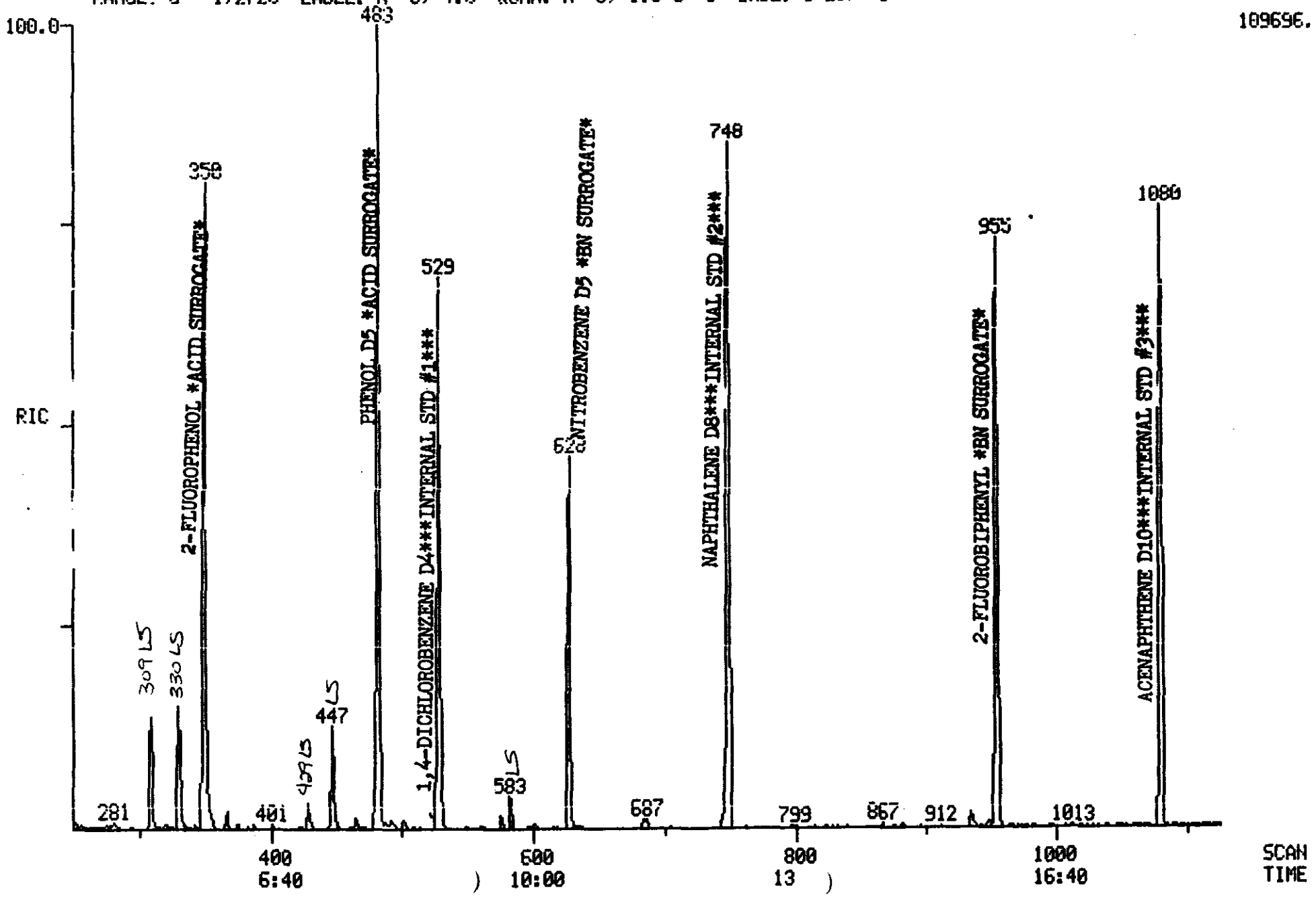
CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/KG

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN	5.15	530	J
2.	UNKNOWN	5.50	530	J
3. 930-68-7	2-CYCLOHEXEN-1-ONE	7.15	130	J
4.	UNKNOWN KETONE	7.45	470	J
5.	UNKNOWN	9.72	130	J

ORIGINAL

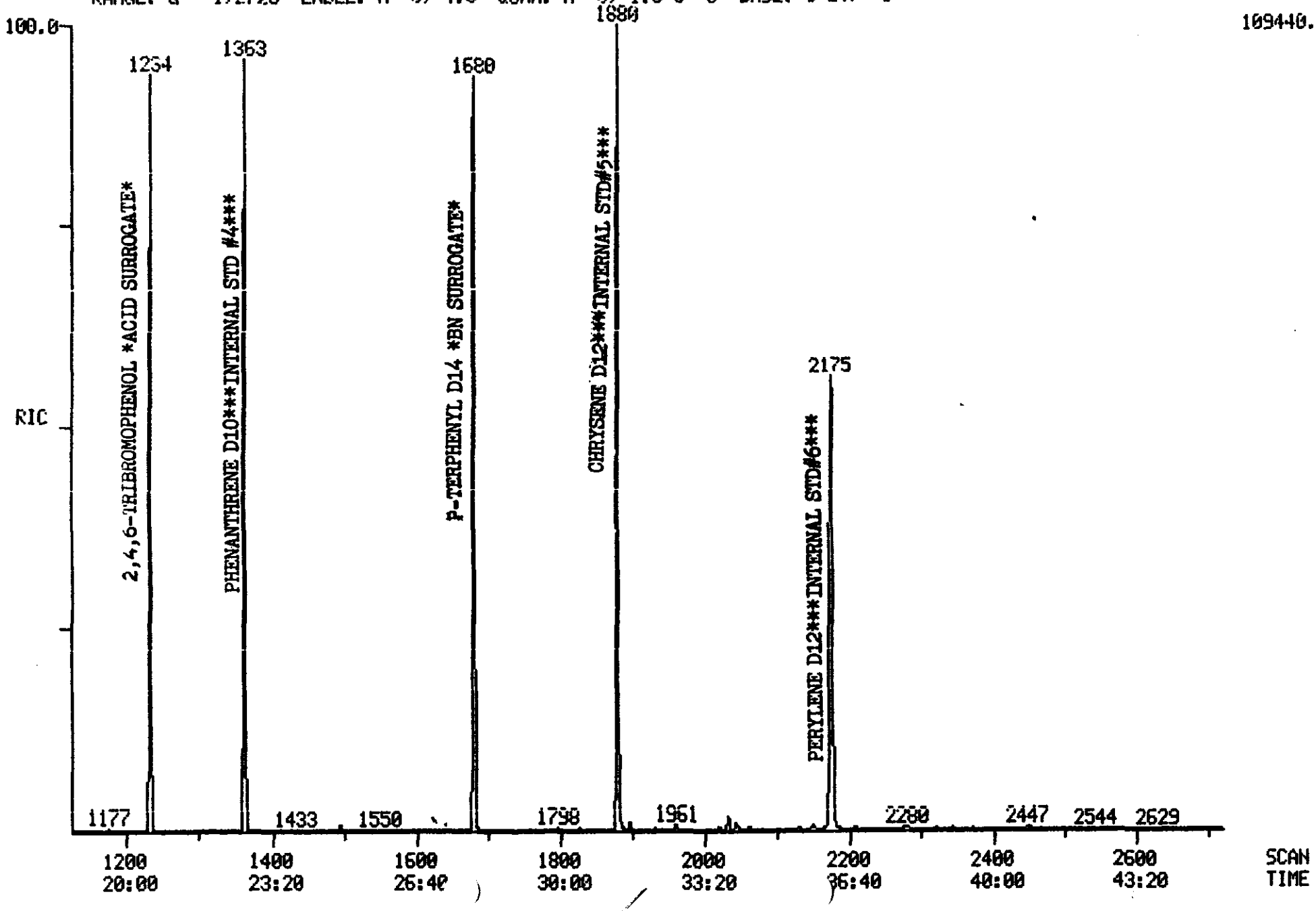
RIC DATA: T2642 #1 SCANS 250 TO 1125
05/17/90 11:10:00 CALI: T2642 #2
SAMPLE. CLP,PNSY,2554,SBLK65,L,S,PB7965,B,BLK,420.60.0,1.1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

100492



ORIGINAL

RIC DATA: T2642 #1 SCANS 1125 TO 2720
05/17/90 11:10:00 CALI: T2642 #2
SAMPLE: CLP,PNSY,2554,SBLK65,L,S,PB7965,B,BLK,420.60.0,1,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



100493

Quantitation Report File: T2642

Data: T2642.TI
5/17/90 11:10:00
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@6C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420 60.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

QB 5/23/90

All IS areas and surrogate recoveries are compliant.

No HBL's detected
5 Kibz Srchs

100494

T2GA2

ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	529	8:49	1	1.000	A BB	21411.	40.000 NG/UL	7.23
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	112	350	5:50	1	0.662	A BB	43213.	66.348 NG*A1	11.79
15	99	482	8:02	1	0.911	A BB	64328.	70.277 NG*A2	12.70
16	136	748	12:28	16	1.000	A BB	68044.	40.000 NG/UL	7.23
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	82	628	10:28	16	0.840	A BB	33955.	31.120 NG*B1	5.62
31	164	1080	18:00	31	1.000	A BB	44978.	40.000 NG/UL	7.23
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								

T2L4L ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:21		0.949						
3	8:04		0.917						
4	8:17		0.941						
5	8:42		0.989						
6	8:51		1.006						
7	9:21		1.062						
8	9:17		1.055						
9	9:43		1.104						
10	9:39		1.097						
11	10:10		1.155						
12	10:04		1.144						
13	10:08		1.152						
14	5:49	1.00	0.661	1.00	66.35	50.00	1.615	1.217	1.33
15	8:02	1.00	0.913	1.00	70.28	50.00	2.404	1.710	1.41
16	12:28	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:31		0.844						
18	11:10		0.896						
19	11:26		0.917						
20	11:35		0.929						
21	11:55		0.956						
22	12:06		0.971						
23	12:21		0.991						
24	12:31		1.004						
25	11:58		0.960						
26	12:50		1.029						
27	13:04		1.048						
28	14:20		1.150						
29	14:39		1.175						
30	10:28	1.00	0.840	1.00	31.12	50.00	0.399	0.641	0.62
31	18:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:20		0.852						
33	15:39		0.869						
34	15:45		0.875						
35	16:10		0.898						
36	16:42		0.928						
37	17:30		0.972						
38	17:25		0.968						
39	17:39		0.981						
40	18:06		1.006						
41	18:03		1.003						
42	18:21		1.019						
43	18:36		1.033						
44	18:37		1.034						
45	18:51		1.047						
46	19:43		1.095						
47	19:46		1.098						
48	19:41		1.094						
49	20:02		1.113						
50	20:07		1.118						

Quantitation Report File: T2642

ORIGINAL
(Red)

Data: T2642.TI
05/17/90 11:10:00
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.60.0

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	172	955	15:55	31	0.884	A BB	52501.	36.099 NG*B2	6.52
55	188	1363	22:43	55	1.000	A BB	95160.	40.000 NG/UL	7.23
56	NOT FOUND								
57	178	1367	22:47	55	1.003	A BB	217.	BRL ~~0.078 NG~~	0.01
58	NOT FOUND								
59	149	1494	24:54	55	1.096	A BB	1715.	BRL ~~0.520 NG~~	0.09
60	NOT FOUND								
61	202	1642	27:22	63	0.873	A BB	189.	BRL ~~0.051 NG.~~	0.01
62	330	1234	20:34	31	1.143	A BB	29164.	72.489 NG*A3	13.10
63	240	1880	31:20	63	1.000	A BB	123921.	40.000 NG/UL	7.23
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								

T2642

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT FOUND								
68	149	1897	31:37	63	1.009	A BB	766.	BRL ~~0.316 NG~~	0.06
69	244	1679	27:59	63	0.893	A BB	97918.	36.278 NG→B3	6.55
70	264	2175	36:15	70	1.000	A BB	109306.	40.000 NC/UL	7.23
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								
76	NOT FOUND								
77	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:12		1.122						
52	21:19		1.184						
53	21:43		1.206						
54	15:55	1.00	0.884	1.00	36.10	50.00	0.934	1.293	0.72
55	22:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:20		0.983						
57	22:47	1.00	1.003	1.00	0.08	50.00	0.002	1.166	0.00
58	22:56		1.010						
59	24:55	1.00	1.097	1.00	0.52	50.00	0.014	1.386	0.01
60	26:39		1.173						
61	27:23	1.00	0.874	1.00	0.05	50.00	0.001	1.191	0.00
62	20:34	1.00	1.143	1.00	72.49	50.00	0.519	0.358	1.45
63	31:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:46		0.950						
65	31:17		0.998						
66	31:25		1.003						
67	31:19		0.999						
68	31:38	1.00	1.010	1.00	0.32	50.00	0.005	0.782	0.01
69	27:59	1.00	0.893	1.00	36.28	50.00	0.632	0.871	0.73
70	36:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:26		0.922						
72	34:44		0.958						
73	34:50		0.960						
74	36:02		0.994						
75	41:59		1.158						
76	42:09		1.162						
77	43:44		1.206						

Quantitation Report File: QCREF

ORIGINAL (Red)

Data: T2642.TI
05/17/90 11:10:00
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.60.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

Scan	Time	Area(Hght)		Amount		Name
529	8:49	21411.		40.000	NG/UL	CI30 1,4-DICHLOROBENZENE-D4
748	12:28	68044.		40.000	NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1080	18:00	44978.		40.000	NG/UL	CI50 ACENAPHTHENE-D10**INT.
1363	22:43	95180.		40.000	NG/UL	CI60 PHENANTHRENE-D10**INT.
1880	31:20	123921.		40.000	NG/UL	CI70 CHRYSENE-D12**INT. STD.
2175	36:15	109306.		40.000	NG/UL	CI75 PERYLENE-D12**INT. STD.
350	5:50	43213.	66	66.348	NG*A1	CS50 2-FLUOROPHENOL**ACID SU
482	8:02	64328.	70	70.277	NG*A2	CS45 PHENOL-D5**ACID SURR.**
1234	20:34	29164.	72	72.489	NG*A3	CS55 2,4,6,-TRIBROMOPHENOL**
628	10:28	33955.	62	31.120	NG*B1	CS20 NITROBENZENE-D5**BN SUR
955	15:55	52501.	72	36.099	NG*B2	CS25 2-FLUOROBIPHENYL**BN SU
1679	27:59	97918.	73	36.278	NG*B3	CS30 P-TERPHENYL-D14**BN SUR

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:48	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:28	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:00	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:43	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	31:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	36:16	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	5:49	1.00	0.661	1.00	66.35	50.00	1.615	1.217	1.33
8	8:02	1.00	0.913	1.00	70.28	50.00	2.404	1.710	1.41
9	20:34	1.00	1.143	1.00	72.49	50.00	0.519	0.358	1.45
10	10:28	1.00	0.840	1.00	31.12	50.00	0.399	0.641	0.62
11	15:55	1.00	0.884	1.00	36.10	50.00	0.934	1.293	0.72
12	27:59	1.00	0.893	1.00	36.28	50.00	0.632	0.871	0.73

Quantitation Report File: ISREF

ORIGINAL
(Red)

Data: T2641.TI
05/17/90 9:42:00
Sample: CLP,,,SSTD 50,,,22659,B,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

Data: T2642.TI
05/17/90 11:10:00
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.60.0

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD. #2**
4	CI40 NAPHTHALENE-D8**INT. STD. #2**
5	CI50 ACENAPHTHENE-D10**INT. STD. #3**
6	CI50 ACENAPHTHENE-D10**INT. STD. #3**
7	CI60 PHENANTHRENE-D10**INT. STD. #4**
8	CI60 PHENANTHRENE-D10**INT. STD. #4**
9	CI70 CHRYSENE-D12**INT. STD. #5**
10	CI70 CHRYSENE-D12**INT. STD. #5**
11	CI75 PERYLENE-D12**INT. STD. #6**
12	CI75 PERYLENE-D12**INT. STD. #6**

Scan	Time	Area(Hght)	Amount	Name
528	8:48	19744.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
529	8:49	21411.	43.377 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
748	12:28	63415.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
748	12:28	68044.	42.920 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1080	18:00	44405.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1080	18:00	44978.	40.516 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1363	22:43	100640.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1363	22:43	95180.	37.830 NG/UL	CI60 PHENANTHRENE-D10**INT.
1880	31:20	117132.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
1880	31:20	123921.	42.318 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2176	36:16	106298.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD
2175	36:15	109306.	41.132 NG/UL	CI75 PERYLENE-D12**INT. STD.

Library Search Data: T2642 # 309 Base m/z: 43
05/17/90 11:10:00 + 5:09 Cali: T2642 # 2 RIC: 12735.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
onds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
nhanced (S 15B 2N OT)

ORIGINAL
(Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
92 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	806	HYDROPEROXIDE, 1,1-DIMETHYLETHYL
2	2776	2-PENTANOL, 2,4-DIMETHYL-
3	1334	OXIRANE, TETRAMETHYL-
4	9176	2-HEXANONE, 6-(ACETYLOXY)-
5	2674	2-PENTANONE, 4-HYDROXY-4-METHYL-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C4.H10.O2	90	59	754	880	761
2	C7.H16.O	116	59	738	772	752
3	C6.H12.O	100	59	689	824	711
	C8.H14.O3	158	43	655	687	714
	C6.H12.O2	116	43	655	697	601

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	75-91-2
2	—	—	—	—	625-06-9
3	—	—	—	—	5076-20-0
4	—	—	—	—	4305-26-4
5	—	—	—	—	123-42-2

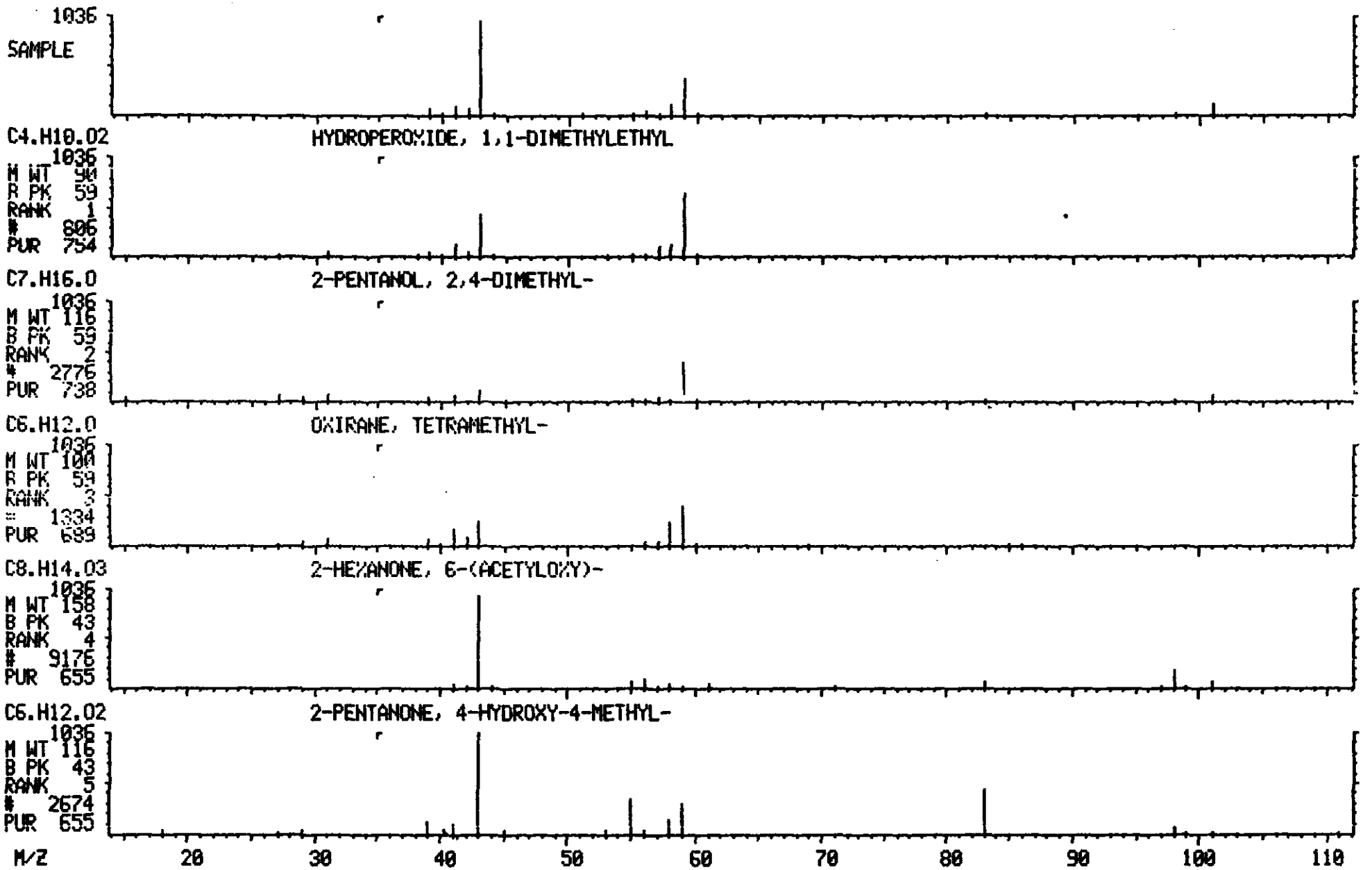
ORIGINAL (Red)

LIBRARY SEARCH
05/17/90 11:10:00 + 5:09
SAMPLE: CLP,PNSY,2554,SBLKE5,L,S,R67955,6,BLK,420.60.0,1,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN038C TO 302C8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2642 # 309
CALI: T2642 # 2

BASE M/Z: 43
RIC: 12735.

100502



Library Search Data: T2642 # 330 Base m/z: 39
05/17/90 11:10:00 + 5:30 Cali: T2642 # 2 RIC: 12815.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
onds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
enhanced (S 15B 2N OT)

ORIGINAL
(Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
108 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1076	1-PROPENE, 3,3'-OXYBIS-
2	2216	2-HEPTENAL, (Z)-
3	1111	2-HEXENAL, (E)-
4	11012	4-DODECENE, (E)-
5	11013	5-DODECENE, (E)-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6.H10.O	98	41	776	883	709
2	C7.H12.O	112	41	756	901	778
3	C6.H10.O	98	41	741	867	818
4	C12.H24	168	55	684	755	751
5	C12.H24	168	55	681	752	749

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	557-40-4
2	—	—	—	—	57266-86-1
3	—	—	—	—	6728-26-3
4	—	—	—	—	7206-15 7
5	—	—	—	—	7206-16-8

100503

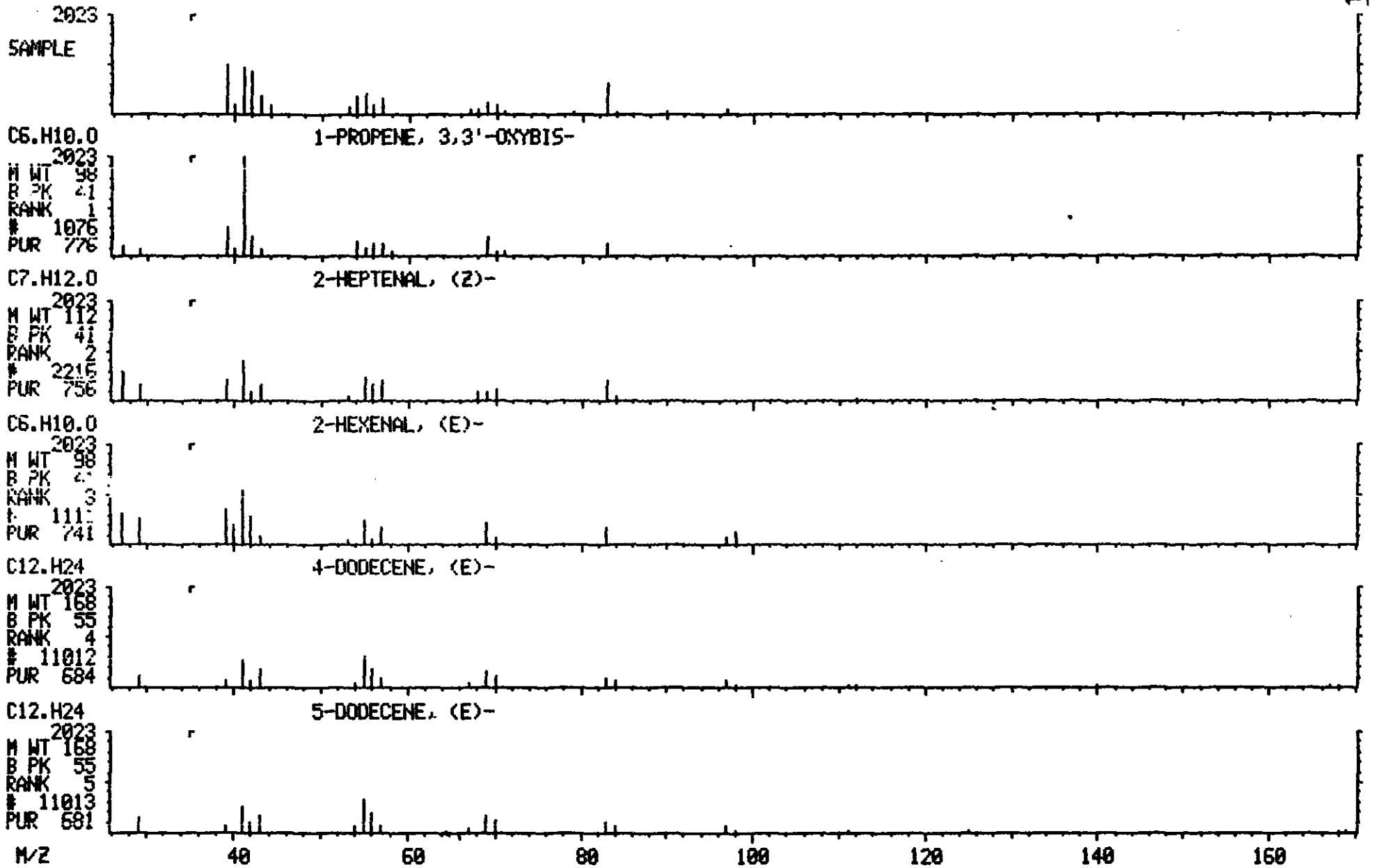
ORIGINAL (Red)

LIBRARY SEARCH
05/17/90 11:10:00 + 5:30
SAMPLE: CLP,PNSY,2554,SBLK65,L,S,RE7965,B,BLK,420.60.0,1,1UL.
CONDS.: INST 1 COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2642 # 330
CALI: T2642 # 2

BASE M/Z: 39
RIC: 12815.

100504



Library Search Data: T2642 # 429 Base m/z: 68
05/17/90 11:10:00 + 7:09 Cali: T2642 # 2 RIC: 2867.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
onds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNK searched for maximum PURITY
152 matched at least 5 of the 9 largest peaks in the unknown

Rank	In.	Name
1	952	2-CYCLOHEXEN-1-ONE
2	941	2H-PYRAN-2-ONE
3	936	3(2H)-PYRIDAZINONE
4	2092	2,5-FURANDIONE, DIHYDRO-3-METHYLENE-
5	168	FURAN

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6.H8.O	96	68	924	924	976
2	C5.H4.O2	96	68	831	904	911
3	C4.H4.O.N2	96	68	804	826	918
	C5.H4.O3	112	68	714	924	762
	C4.H4.O	68	68	711	892	753

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	930-68-7
2	—	—	—	—	504-31-4
3	—	—	—	—	504-30-3
4	—	—	—	—	2170-03-8
5	—	—	—	—	110-00-9

100505

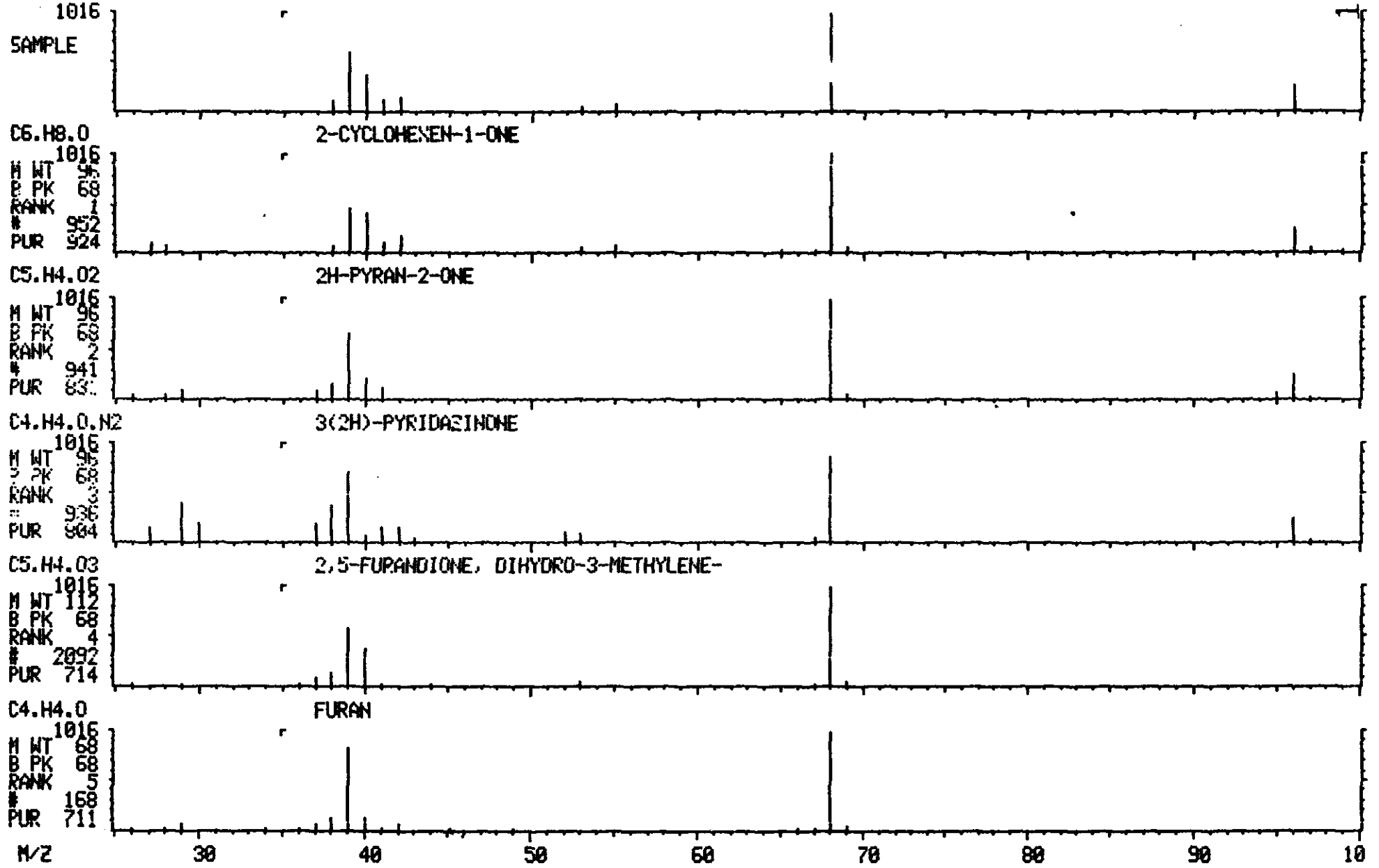
ORIGINAL (Red)

LIBRARY SEARCH
05/17/90 11:10:00 + 7:09
SAMPLE: CLP,PNSY,2554,SBLK65,L,5,RB7965,P,BLK,420.60.0,1,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2642 # 429
CALI: T2642 # 2

BASE M/Z: 68
RIC: 2667.

100506



Library Search Data: T2642 # 447 Base m/z: 43
05/17/90 11:10:00 + 7:27 Cali: T2642 # 2 RIC: 11503.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
'onds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@6C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
194 matched at least 6 of the 16 largest peaks in the unknown

KETONE

Rank	In.	Name
1	2147	2(5H)-FURANONE, 5,5-DIMETHYL-
2	2176	5-HEXEN-2-ONE, 5-METHYL-
3	2183	3-HEXEN-2-ONE, 5-METHYL-
4	2165	3-PENTEN-2-ONE, 3,4-DIMETHYL-
5	2071	2-PROPANONE, 1,1,1-TRIFLUORO-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C6.H8.O2	112	43	846	884	927
2	C7.H12.O	112	43	818	875	876
3	C7.H12.O	112	43	735	784	787
	C7.H12.O	112	43	733	794	777
	C3.H3.O.F3	112	43	670	799	712

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	20019-64-1
2	—	—	—	—	3240-09-3
3	—	—	—	—	5166-53-0
4	—	—	—	—	684-94-6
5	—	—	—	—	421-50-1

100507

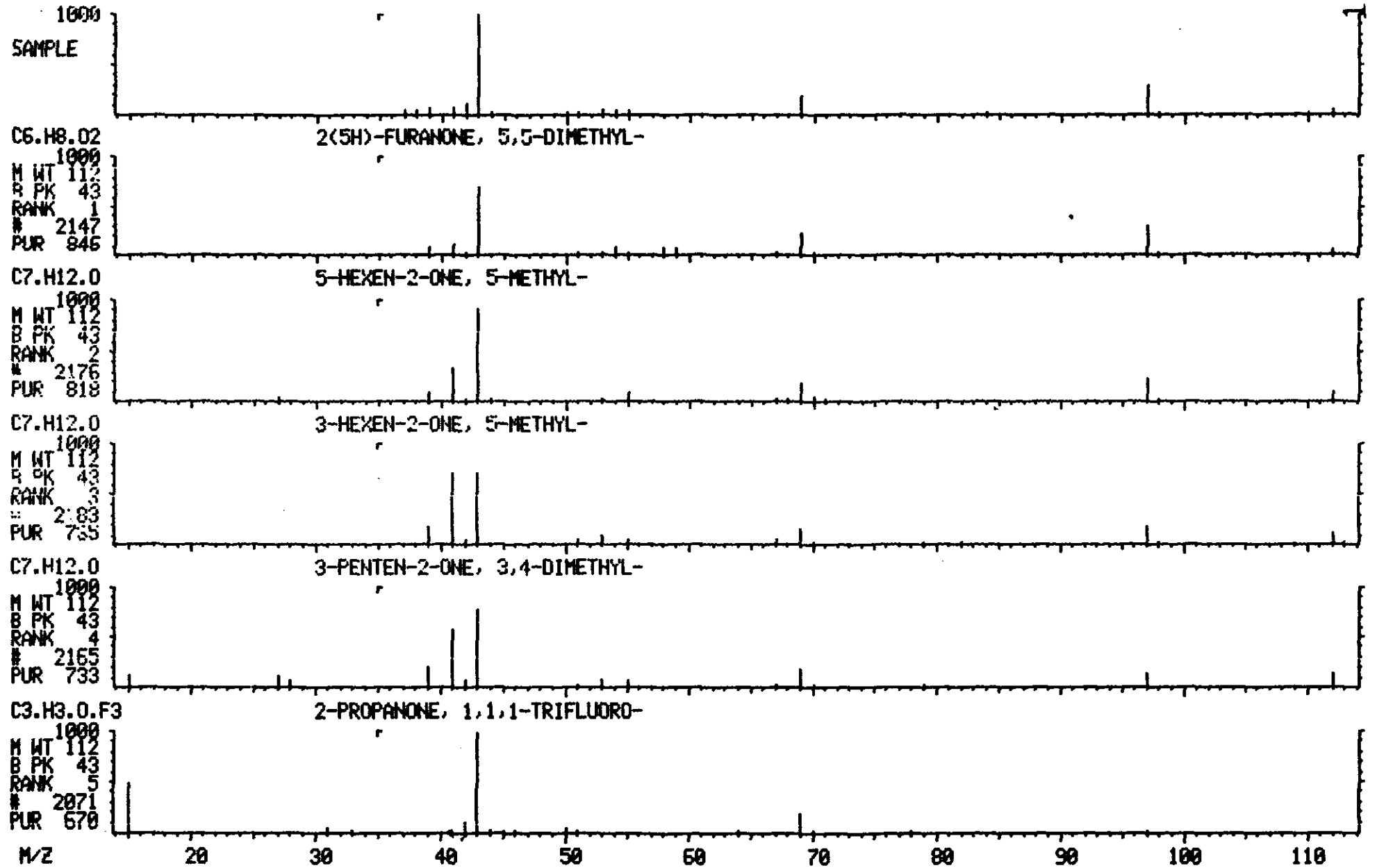
ORIGINAL (Red)

LIBRARY SEARCH
05/17/90 11:10:00 + 7:27
SAMPLE: CLP,PNSY,2554,SBLK65,L,5,PB7965,B,BLK,420,50.0,1,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2642 # 447
CALI: T2642 # 2

BASE M/Z: 43
RIC: 11506.

100508



ORIGINAL (Red)

Library Search Data: T2642 # 583 Base m/z: 81
05/17/90 11:10:00 + 9:43 Cali: T2642 # 2 RIC: 3279.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
onds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

42223 spectra in LIBRARYNH searched for maximum PURITY
50 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	5826	7-OXABICYCLO[4.1.0]HEPTANE, 3-OXIRANYL-
2	2179	3,4-PENTADIEN-1-OL, 2,2-DIMETHYL-
3	3612	2-PROPENOIC ACID, 2-METHYL-, 2-PROPENYL ESTER
4	8212	2-DECYN-1-OL
5	1083	2-HEXYN-1-OL

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C8.H12.O2	140	41	654	731	805
2	C7.H12.O	112	81	581	766	734
3	C7.H10.O2	126	41	496	593	547
	C10.H18.O	154	41	467	590	690
5	C6.H10.O	98	41	457	782	504

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C.A.S. #
1	—	—	—	—	106-87-6
2	—	—	—	—	4059-52-0
3	—	—	—	—	96-05-9
4	—	—	—	—	4117-14-0
5	—	—	—	—	764-60-3

100509

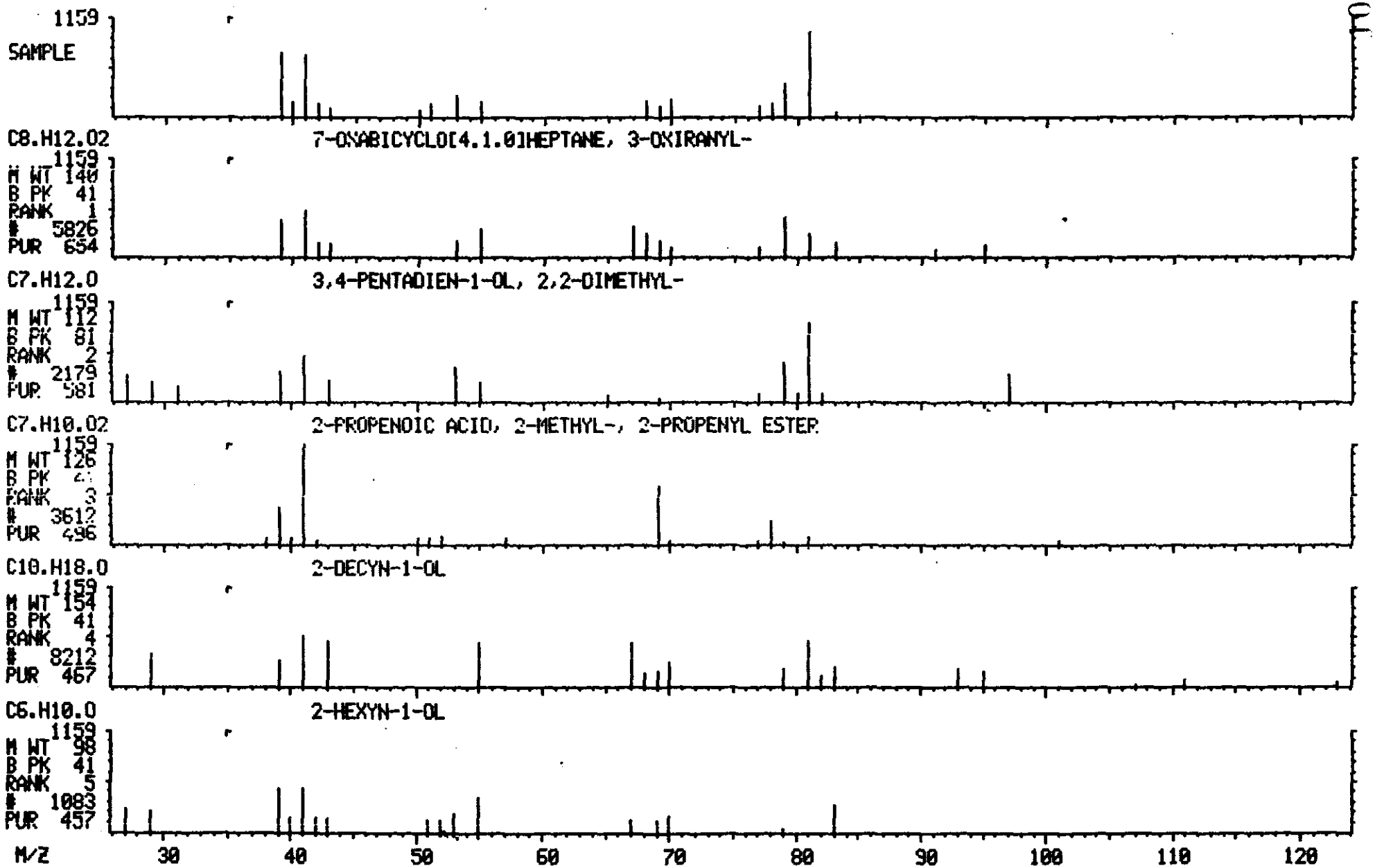
ORIGINAL (Red)

LIBRARY SEARCH
05/17/90 11:10:00 + 9:43
SAMPLE: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2642 # 583
CALI: T2642 # 2

BASE M/Z: 81
RIC: 3279.

100510



```
        >>>>INTERNAL STANDARD RIC REPORT<<<<                                ORIGINAL
*****************************INTERNAL STANDARD#1*****************RIC        (Red)
Mass List                        Data: T2642 # 529          Base m/z:   150
05/17/90 11:10:00 +  8:49        Cali: T2642 #   2          RIC:      63552.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     35        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*****************************INTERNAL STANDARD#2*****************RIC
Mass List                        Data: T2642 # 748          Base m/z:   136
05/17/90 11:10:00 + 12:28        Cali: T2642 #   2          RIC:      80128.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*****************************INTERNAL STANDARD#3*****************RIC
Mass List                        Data: T2642 #1080          Base m/z:   164
05/17/90 11:10:00 + 18:00        Cali: T2642 #   2          RIC:      74752.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*****************************INTERNAL STANDARD#4*****************RIC
Mass List                        Data: T2642 #1363          Base m/z:   168
05/17/90 11:10:00 + 22:43        Cali: T2642 #   2          RIC:      93312.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*****************************INTERNAL STANDARD#5*****************RIC
Mass List                        Data: T2642 #1880          Base m/z:   210
05/17/90 11:10:00 + 31:20        Cali: T2642 #   2          RIC:      99712.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
*****************************INTERNAL STANDARD#6*****************RIC
Mass List                        Data: T2642 #2175          Base m/z:   264
05/17/90 11:10:00 + 36:15        Cali: T2642 #   2          RIC:      60288.
Sample: CLP,PNSY,2554,SBLK65,L,S,RB7965,B,BLK,420.60.0,1,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40        0.00    0.00        0. Minima      Min inten:       0.
     30                         *   0  Maxima
     ANALYST: CHECK BASE M/Z AND RIC AMOUNT TO INSURE NO CONTAMINATION
```

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK82 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK82

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2590

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	20000	U
111-44-4	bis(2-Chloroethyl)ether	20000	U
95-57-8	2-Chlorophenol	20000	U
541-73-1	1,3-Dichlorobenzene	20000	U
106-46-7	1,4-Dichlorobenzene	20000	U
100-51-6	Benzyl alcohol	20000	U
95-50-1	1,2-Dichlorobenzene	20000	U
95-48-7	2-Methylphenol	20000	U
108-60-1	bis(2-Chloroisopropyl)ether	20000	U
106-44-5	4-Methylphenol	20000	U
621-64-7	N-Nitroso-di-n-propylamine	20000	U
67-72-1	Hexachloroethane	20000	U
98-95-3	Nitrobenzene	20000	U
78-59-1	Isophorone	20000	U
88-75-5	2-Nitrophenol	20000	U
105-67-9	2,4-Dimethylphenol	20000	U
65-85-0	Benzoic Acid	96000	U
111-91-1	bis(2-Chloroethoxy)methane	20000	U
120-83-2	2,4-Dichlorophenol	20000	U
120-82-1	1,2,4-Trichlorobenzene	20000	U
91-20-3	Naphthalene	20000	U
106-47-8	4-Chloroaniline	20000	U
87-68-3	Hexachlorobutadiene	20000	U
59-50-7	4-Chloro-3-methylphenol	20000	U
91-57-6	2-Methylnaphthalene	20000	U
77-47-4	Hexachlorocyclopentadiene	20000	U
88-06-2	2,4,6-Trichlorophenol	20000	U
95-95-4	2,4,5-Trichlorophenol	96000	U
91-58-7	2-Chloronaphthalene	20000	U
88-74-4	2-Nitroaniline	96000	U
131-11-3	Dimethylphthalate	20000	U
208-96-8	Acenaphthylene	20000	U
606-20-2	2,6-Dinitrotoluene	20000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

SBLK82 ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK82

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2590

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	96000	U
83-32-9	Acenaphthene	20000	U
51-28-5	2,4-Dinitrophenol	96000	U
100-02-7	4-Nitrophenol	96000	U
132-64-9	Dibenzofuran	20000	U
121-14-2	2,4-Dinitrotoluene	20000	U
84-66-2	Diethylphthalate	20000	U
7005-72-3	4-Chlorophenyl-phenylether	20000	U
86-73-7	Fluorene	20000	U
100-01-6	4-Nitroaniline	96000	U
534-52-1	4,6-Dinitro-2-methylphenol	96000	U
86-30-6	N-nitrosodiphenylamine (1)	20000	U
101-55-3	4-Bromophenyl-phenylether	20000	U
118-74-1	Hexachlorobenzene	20000	U
87-86-5	Pentachlorophenol	96000	U
85-01-8	Phenanthrene	20000	U
120-12-7	Anthracene	20000	U
84-74-2	Di-n-butylphthalate	20000	U
206-44-0	Fluoranthene	20000	U
129-00-0	Pyrene	20000	U
85-68-7	Butylbenzylphthalate	20000	U
91-94-1	3,3'-Dichlorobenzidine	40000	U
56-55-3	Benzo(a)anthracene	20000	U
218-01-9	Chrysene	20000	U
117-81-7	bis(2-Ethylhexyl)phthalate	20000	U
117-84-0	Di-n-octyl phthalate	20000	U
205-99-2	Benzo(b)fluoranthene	20000	U
207-08-9	Benzo(k)fluoranthene	20000	U
50-32-8	Benzo(a)pyrene	20000	U
193-39-5	Indeno(1,2,3-cd)pyrene	20000	U
53-70-3	Dibenz(a,h)anthracene	20000	U
191-24-2	Benzo(g,h,i)perylene	20000	U

(1) - Cannot be separated from Diphenylamine

1F

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

EPA SAMPLE NO.

SBLK82 ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: SBLK82

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2590

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

% Moisture: not dec. ____ dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: _____ Dilution Factor: 1.0

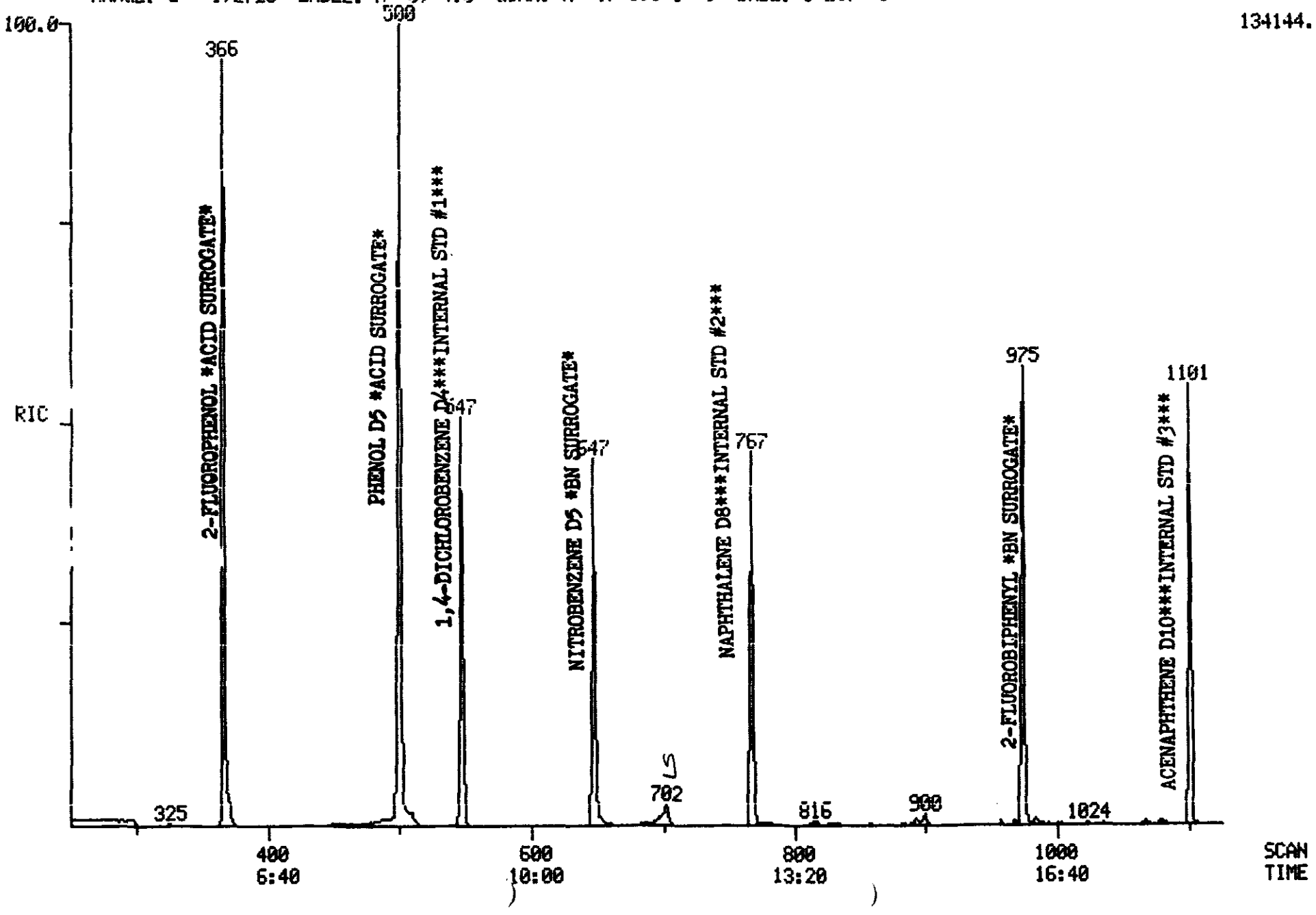
Number TICs found: 1

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

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q
1.	UNKNOWN SILOXANE	11.70	4000	J

ORIGINAL (Red)

RIC DATA: T2590 #1 SCANS 250 TO 1125
05/15/90 16:12:00 CALI: T2590 #2
SAMPLE: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



100515

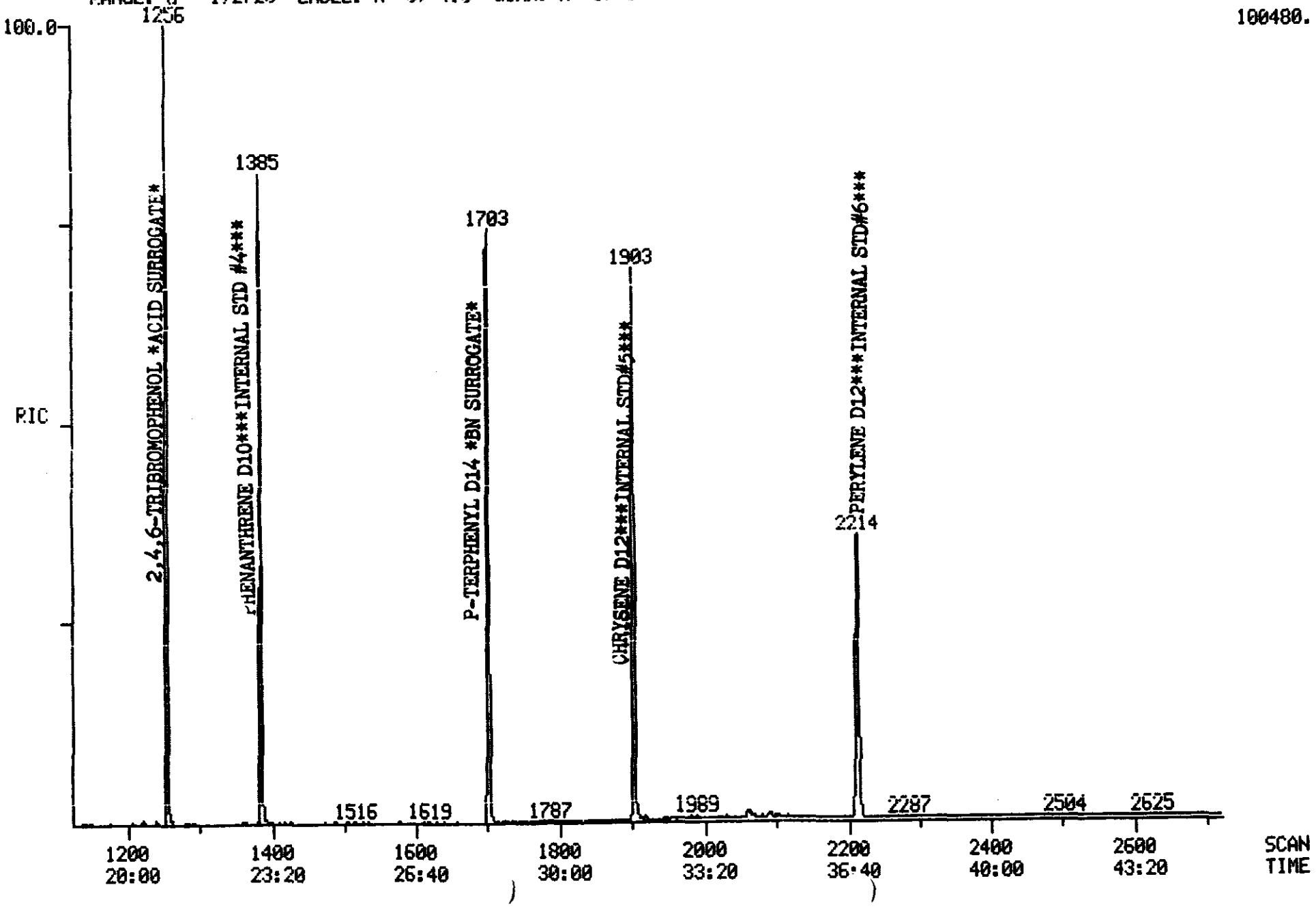
ORIGINAL (Red)

RIC
05/15/90 15:12:00
SAMPLE: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2.1UL,
CONDS.: INST T COLUMN=PESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2590 #1
CALI: T2590 #2

SCANS 1125 TO 2720

100516



Quantitation Report File: T2590

Data: T2590.TI
05/15/90 16:12:00
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1

ORIGINAL (Red)

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

✓ 5/22/90

All surrogate recoveries and IS areas compliant.

No HSL's detected

1 Library Search

2

100517

T2590

ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	547	9:07	1	1.000	A BB	15792.	40.000	NG/UL	6.18
2	NOT FOUND									
3	NOT FOUND									
4	NOT FOUND									
5	NOT FOUND									
6	NOT FOUND									
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	NOT FOUND									
14	112	366	6:06	1	0.669	A BB	41383.	99.229	NG*A1	15.33
15	99	500	8:20	1	0.914	A BB	56956.	93.622	NG*A2	14.46
16	136	767	12:47	16	1.000	A BB	48202.	40.000	NG/UL	6.18
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	82	647	10:47	16	0.844	A BB	39774.	46.008	NG*B1	7.11
31	164	1101	18:21	31	1.000	A BB	38773.	40.000	NG/UL	6.18
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									

T2590

ORIGINAL

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	9:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:37		0.949						
3	8:20		0.917						
4	8:33		0.941						
5	8:59		0.989						
6	9:08		1.006						
7	9:38		1.061						
8	9:34		1.053						
9	10:00		1.101						
10	9:55		1.092						
11	10:27		1.150						
12	10:20		1.138						
13	10:25		1.147						
14	6:03	1.01	0.666	1.00	99.23	50.00	2.096	1.056	1.98
15	8:18	1.00	0.914	1.00	93.62	50.00	2.885	1.541	1.87
16	12:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:48		0.846						
18	11:28		0.898						
19	11:43		0.918						
20	11:52		0.930						
21	12:12		0.956						
22	12:24		0.971						
23	12:38		0.990						
24	12:49		1.004						
25	12:14		0.958						
26	13:07		1.027						
27	13:22		1.047						
28	14:38		1.146						
29	14:57		1.171						
30	10:45	1.00	0.842	1.00	46.01	50.00	0.660	0.717	0.92
31	18:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:39		0.854						
33	15:57		0.870						
34	16:04		0.876						
35	16:29		0.899						
36	17:01		0.928						
37	17:50		0.973						
38	17:43		0.966						
39	17:58		0.980						
40	18:26		1.005						
41	18:22		1.002						
42	18:40		1.018						
43	18:56		1.033						
44	18:56		1.033						
45	19:11		1.046						
46	20:03		1.094						
47	20:05		1.095						
48	20:00		1.091						
49	20:21		1.110						
50	20:27		1.115						

Quantitation Report File: T2590

ORIGINAL (Red)

Data: T2590.TI
05/15/90 16:12:00
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	172	975	16:15	31	0.886	A BB	53072.	42.714 NG*B2	6.60
55	188	1385	23:05	55	1.000	A BB	80441.	40.000 NG/UL	6.18
56	NOT FOUND								
57	NOT FOUND								
58	NOT FOUND								
59	149	1516	25:16	55	1.095	A BB	674.	BRL ~~0.198 NG~~	0.03
60	NOT FOUND								
61	NOT FOUND								
62	330	1255	20:55	31	1.140	A BB	25651.	84.486 NG*A3	13.05
63	240	1903	31:43	63	1.000	A BB	73178.	40.000 NG/UL	6.18
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								

T2590

ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT FOUND								
68	149	1918	31:58	63	1.008	A BB	259.	BRL ~~0.127 NG~~	0.02
69	244	1702	28:22	63	0.894	A BB	64945.	41.067 NG*B3	6.34
70	264	2213	36:53	70	1.000	A BB	63877.	40.000 NG/UL	6.18
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								
76	NOT FOUND								
77	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:32		1.120						
52	21:39		1.181						
53	22:03		1.203						
54	16:13	1.00	0.885	1.00	42.71	50.00	1.095	1.282	0.85
55	23:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:40		0.983						
57	23:08		1.003						
58	23:17		1.009						
59	25:14	1.00	1.094	1.00	0.20	50.00	0.007	1.695	0.00
60	27:01		1.171						
61	27:45		0.875						
62	20:54	1.00	1.140	1.00	84.49	50.00	0.529	0.313	1.69
63	31:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	30:07		0.950						
65	31:39		0.998						
66	31:47		1.003						
67	31:40		0.999						
68	31:57	1.00	1.008	1.00	0.13	50.00	0.003	1.094	0.00
69	28:21	1.00	0.894	1.00	41.07	50.00	0.710	0.864	0.82
70	36:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:49		0.918						
72	35:13		0.956						
73	35:19		0.958						
74	36:36		0.993						
75	42:54		1.164						
76	43:04		1.169						
77	44:45		1.214						

Quantitation Report File: QCREF

ORIGINAL (Red)

Data: T2590.TI
05/15/90 16:12:00
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

Scan	Time	Area(Hght)		Amount		Name
547	9:07	15792.		40.000	NG/UL	CI30 1,4-DICHLOROBENZENE-D4
767	12:47	48202.		40.000	NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1101	18:21	38773.		40.000	NG/UL	CI50 ACENAPHTHENE-D10**INT.
1385	23:05	80441.		40.000	NG/UL	CI60 PHENANTHRENE-D10**INT.
1903	31:43	73178.		40.000	NG/UL	CI70 CHRYSENE-D12**INT. STD.
2213	36:53	63877.		40.000	NG/UL	CI75 PERYLENE-D12**INT. STD.
366	6:06	41383.	99	99.229	NG*A1	CS50 2-FLUOROPHENOL**ACID SU
500	8:20	56956.	94	93.622	NG*A2	CS45 PHENOL-D5**ACID SURR.**
1255	20:55	25651.	84	84.486	NG*A3	CS55 2,4,6,-TRIBROMOPHENOL**
647	10:47	39774.	92	46.008	NG*B1	CS20 NITROBENZENE-D5**BN SUR
975	16:15	53072.	85	42.714	NG*B2	CS25 2-FLUOROBIPHENYL**BN SU
1702	28:22	64945.	82	41.067	NG*B3	CS30 P-TERPHENYL-D14**BN SUR

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	23:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	31:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	36:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	6:03	1.01	0.666	1.00	99.23	50.00	2.096	1.056	1.98
8	8:18	1.00	0.914	1.00	93.62	50.00	2.885	1.541	1.87
9	20:54	1.00	1.140	1.00	84.49	50.00	0.529	0.313	1.69
10	10:45	1.00	0.842	1.00	46.01	50.00	0.660	0.717	0.92
11	16:13	1.00	0.885	1.00	42.71	50.00	1.095	1.282	0.85
12	28:21	1.00	0.894	1.00	41.07	50.00	0.710	0.864	0.82

Quantitation Report File: ISREF

ORIGINAL (Red)

Data: T2583.TI
05/15/90 9:42:00
Sample: CLP,,,SSTD 50,,,22658,B,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

Data: T2590.TI
05/15/90 16:12:00
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD. #2**
4	CI40 NAPHTHALENE-D8**INT. STD. #2**
5	CI50 ACENAPHTHENE-D10**INT. STD. #3**
6	CI50 ACENAPHTHENE-D10**INT. STD. #3**
7	CI60 PHENANTHRENE-D10**INT. STD. #4**
8	CI60 PHENANTHRENE-D10**INT. STD. #4**
9	CI70 CHRYSENE-D12**INT. STD. #5**
10	CI70 CHRYSENE-D12**INT. STD. #5**
11	CI75 PERYLENE-D12**INT. STD. #6**
12	CI75 PERYLENE-D12**INT. STD. #6**

Scan	Time	Area(Hght)	Amount	Name
545	9:05	15588.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
547	9:07	15792.	40.523 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
766	12:46	52356.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
767	12:47	48202.	36.826 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1100	18:20	40125.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1101	18:21	38773.	38.652 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1384	23:04	81463.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1385	23:05	80441.	39.498 NG/UL	CI60 PHENANTHRENE-D10**INT.
1902	31:42	72781.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
1903	31:43	73178.	40.218 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2211	36:51	61203.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
2213	36:53	63877.	41.748 NG/UL	CI75 PERYLENE-D12**INT. STD.

Library Search Data: T2590 # 702 Base m/z: 73
05/15/90 16:12:00 + 11:42 Cali: T2590 # 2 RIC: 2551.
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

Siloxane

42223 spectra in LIBRARYNB searched for maximum PURITY
111 matched at least 4 of the 12 largest peaks in the unknown

Rank	In.	Name
1	34650	CYCLOPENTASILOXANE, DECAMETHYL-
2	34667	BENZOIC ACID, 2,4-BIS[(TRIMETHYLSILYL)OXY]-, TRIMETHYLSILYL ESTER
3	34666	BENZOIC ACID, 2,5-BIS(TRIMETHYLSILOXY)-, TRIMETHYLSILYL ESTER
4	40810	BENZENEETHANAMINE, N-[(PENTAFLUOROPHENYL)METHYLENE]-.BETA.,3,4-TRIS*
5	36250	PHENETHYLAMINE, N METHYL-.BETA.,3,4-TRIS(TRIMETHYLSILOXY)-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H30.O5.SI5	370	73	747	830	691
2	C16.H30.O4.SI3	370	73	706	706	920
3	C16.H30.O4.SI3	370	73	660	667	812
4	C24.H34.O3.N.F5.SI3	563	73	634	669	767
5	C18.H37.O3.N.SI3	399	355	599	599	723

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	541-02-6
2	—	—	—	—	10586-16-0
3	—	—	—	—	3618-20-0
4	—	—	—	—	55429-13-5
5	—	—	—	—	10538-85-9

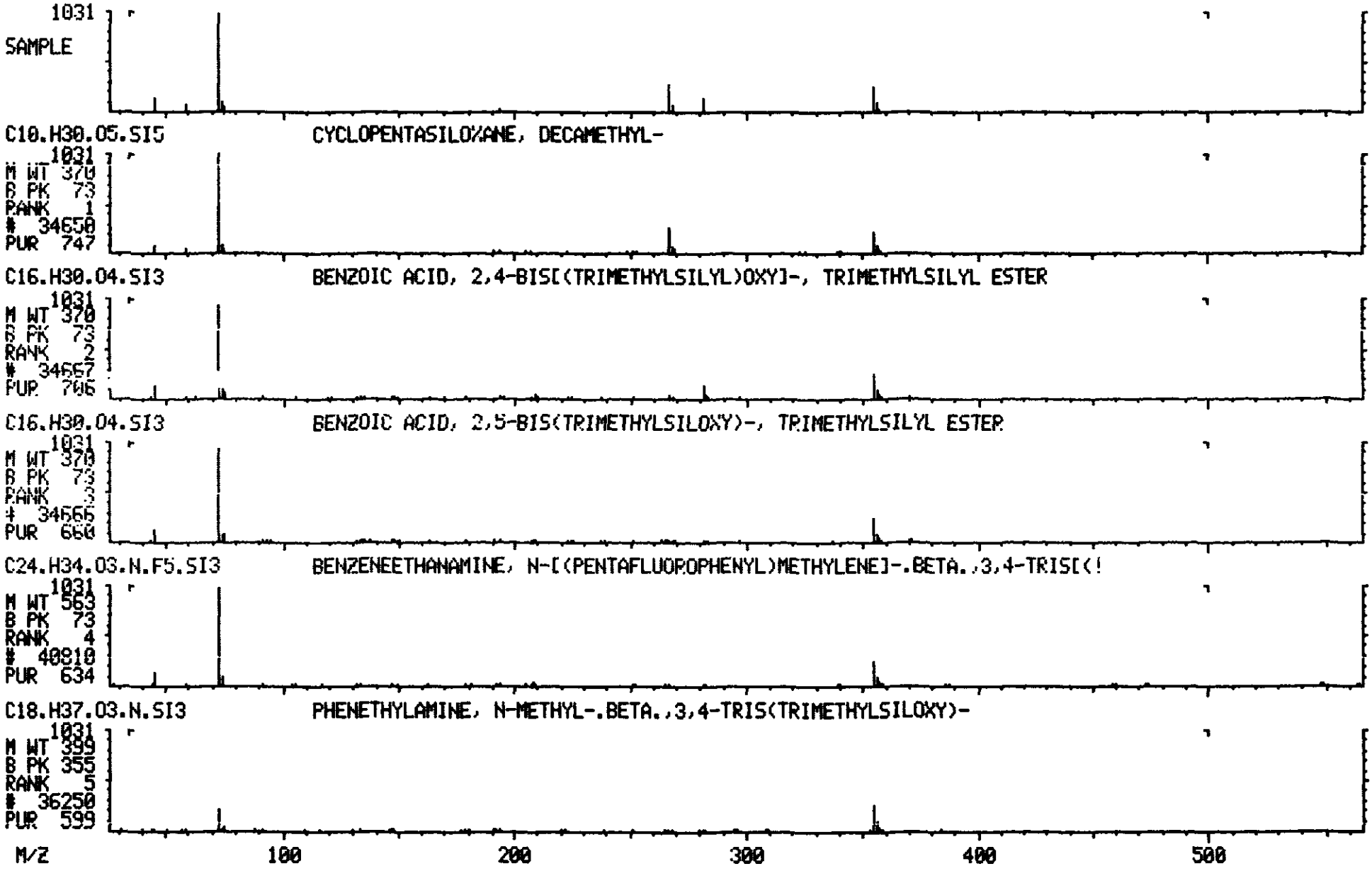
ORIGINAL (Red)

100525

LIBRARY SEARCH
05/15/90 16:12:00 + 11:42
SAMPLE: CLP,VERSCOM,2536,SELKS2,M,S,RP7992,P,,420.1.0,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2590 # 702
CALI: T2590 # 2

BASE M/Z: 73
RIC: 2551.



ORIGINAL (Red)

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        >>>>INTERNAL STANDARD RIC REPORT<<<<
*************************INTERNAL STANDARD#1*****************RIC
Mass List                        Data: T2590 # 547          Base m/z:   150
05/15/90 16:12:00 +  9:07        Cali: T2590 #   2          RIC:      58112.
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     35        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
*************************INTERNAL STANDARD#2*****************RIC
Mass List                        Data: T2590 # 767          Base m/z:   136
05/15/90 16:12:00 + 12:47        Cali: T2590 #   2          RIC:      57152.
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
*************************INTERNAL STANDARD#3*****************RIC
Mass List                        Data: T2590 #1101          Base m/z:   164
05/15/90 16:12:00 + 18:21        Cali: T2590 #   2          RIC:      63616.
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
*************************INTERNAL STANDARD#4*****************RIC
Mass List                        Data: T2590 #1385          Base m/z:   188
05/15/90 16:12:00 + 23:05        Cali: T2590 #   2          RIC:      75264.
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
*************************INTERNAL STANDARD#5*****************RIC
Mass List                        Data: T2590 #1903          Base m/z:   240
05/15/90 16:12:00 + 31:43        Cali: T2590 #   2          RIC:      64256.
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
*************************INTERNAL STANDARD#6*****************RIC
Mass List                        Data: T2590 #2214          Base m/z:   264
05/15/90 16:12:00 + 36:54        Cali: T2590 #   2          RIC:      34560.
Sample: CLP,VERSCDM,2536,SBLK82,M,S,RB7982,B,,420.1.0,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     42        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
     ANALYST: CHECK BASE M/Z AND RIC AMOUNT TO INSURE NO CONTAMINATION
```

100526

Versar INC.

ORIGINAL
(Red)

MATRIX SPIKE DATA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1MS ORIGINAL (Red)

Lab Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419MS

Sample wt/vol: 1.1 (g/mL) G Lab File ID: T2592

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	26000	U
111-44-4	bis(2-Chloroethyl)ether	26000	U
95-57-8	2-Chlorophenol	26000	U
541-73-1	1,3-Dichlorobenzene	26000	U
106-46-7	1,4-Dichlorobenzene	26000	U
100-51-6	Benzyl alcohol	26000	U
95-50-1	1,2-Dichlorobenzene	26000	U
95-48-7	2-Methylphenol	26000	U
108-60-1	bis(2-Chloroisopropyl)ether	26000	U
106-44-5	4-Methylphenol	26000	U
621-64-7	N-Nitroso-di-n-propylamine	26000	U
67-72-1	Hexachloroethane	26000	U
98-95-3	Nitrobenzene	26000	U
78-59-1	Isophorone	26000	U
88-75-5	2-Nitrophenol	26000	U
105-67-9	2,4-Dimethylphenol	26000	U
65-85-0	Benzoic Acid	130000	U
111-91-1	bis(2-Chloroethoxy)methane	26000	U
120-83-2	2,4-Dichlorophenol	26000	U
120-82-1	1,2,4-Trichlorobenzene	26000	U
91-20-3	Naphthalene	26000	U
106-47-8	4-Chloroaniline	26000	U
87-68-3	Hexachlorobutadiene	26000	U
59-50-7	4-Chloro-3-methylphenol	26000	U
91-57-6	2-Methylnaphthalene	26000	U
77-47-4	Hexachlorocyclopentadiene	26000	U
88-06-2	2,4,6-Trichlorophenol	26000	U
95-95-4	2,4,5-Trichlorophenol	130000	U
91-58-7	2-Chloronaphthalene	26000	U
88-74-4	2-Nitroaniline	130000	U
131-11-3	Dimethylphthalate	26000	U
208-96-8	Acenaphthylene	26000	U
606-20-2	2,6-Dinitrotoluene	26000	U

1C
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1MS ORIGINAL (MS)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419MS

Sample wt/vol: 1.1 (g/mL) G Lab File ID: T2592

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

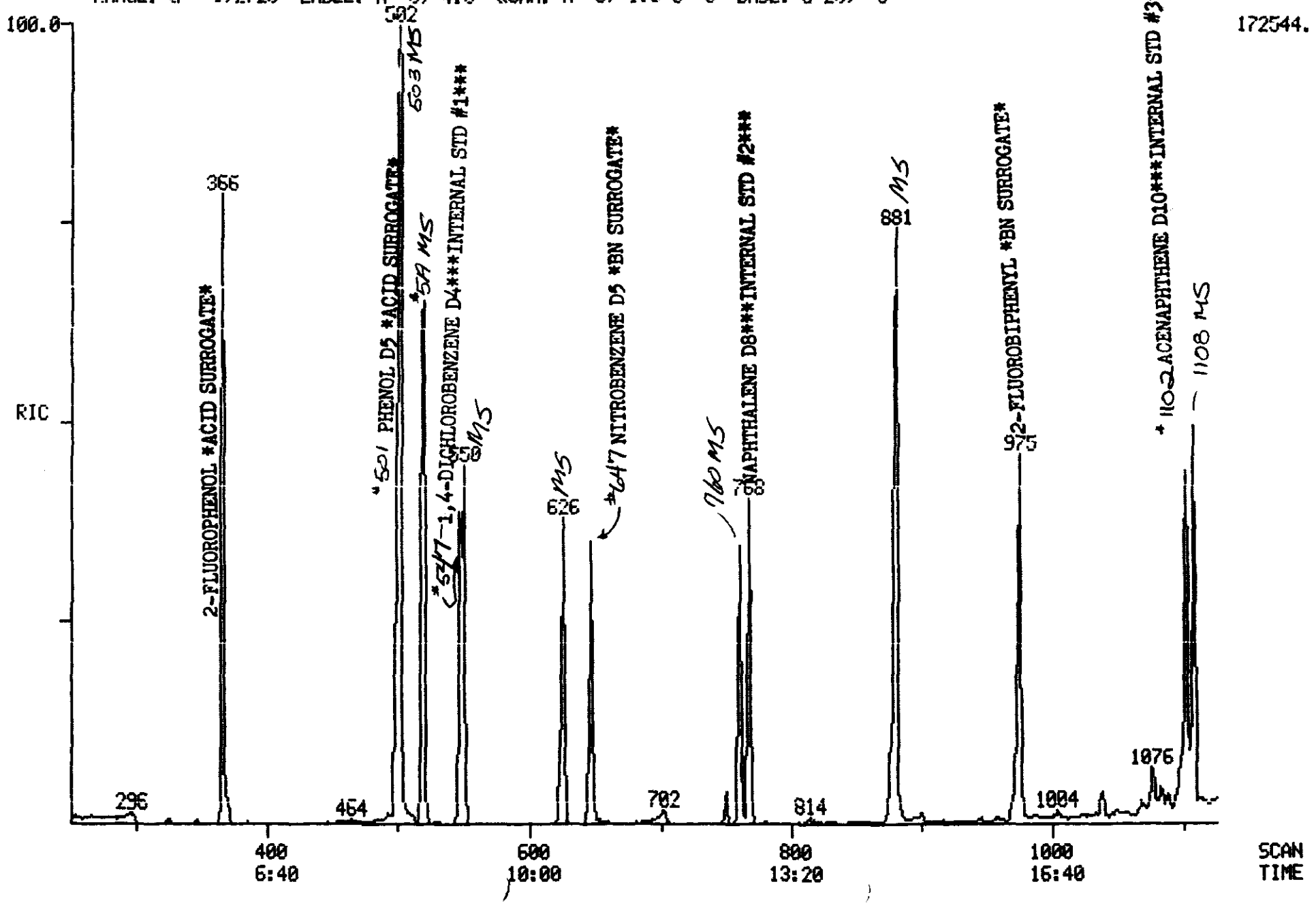
Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.97

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	130000	U
83-32-9	Acenaphthene	26000	U
51-28-5	2,4-Dinitrophenol	130000	U
100-02-7	4-Nitrophenol	130000	U
132-64-9	Dibenzofuran	26000	U
121-14-2	2,4-Dinitrotoluene	26000	U
84-66-2	Diethylphthalate	26000	U
7005-72-3	4-Chlorophenyl-phenylether	26000	U
86-73-7	Fluorene	26000	U
100-01-6	4-Nitroaniline	130000	U
534-52-1	4,6-Dinitro-2-methylphenol	130000	U
86-30-6	N-nitrosodiphenylamine (1)	26000	U
101-55-3	4-Bromophenyl-phenylether	26000	U
118-74-1	Hexachlorobenzene	26000	U
87-86-5	Pentachlorophenol	130000	U
85-01-8	Phenanthrene	26000	U
120-12-7	Anthracene	26000	U
84-74-2	Di-n-butylphthalate	26000	U
206-44-0	Fluoranthene	26000	U
129-00-0	Pyrene	26000	U
85-68-7	Butylbenzylphthalate	26000	U
91-94-1	3,3'-Dichlorobenzidine	52000	U
56-55-3	Benzo(a)anthracene	26000	U
218-01-9	Chrysene	26000	U
117-81-7	bis(2-Ethylhexyl)phthalate	26000	U
117-84-0	Di-n-octyl phthalate	26000	U
205-99-2	Benzo(b)fluoranthene	26000	U
207-08-9	Benzo(k)fluoranthene	26000	U
50-32-8	Benzo(a)pyrene	26000	U
193-39-5	Indeno(1,2,3-cd)pyrene	26000	U
53-70-3	Dibenz(a,h)anthracene	26000	U
191-24-2	Benzo(g,h,i)perylene	26000	U

(1) - Cannot be separated from Diphenylamine

RIC DATA: T2592 #1 SCANS 250 TO 1125
05/15/90 17:59:00 CALI: T2592 #2
SAMPLE: CLP,VERSCOM,2536,1MS,M,5,16419MS,6,,420.1,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30208C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



100530

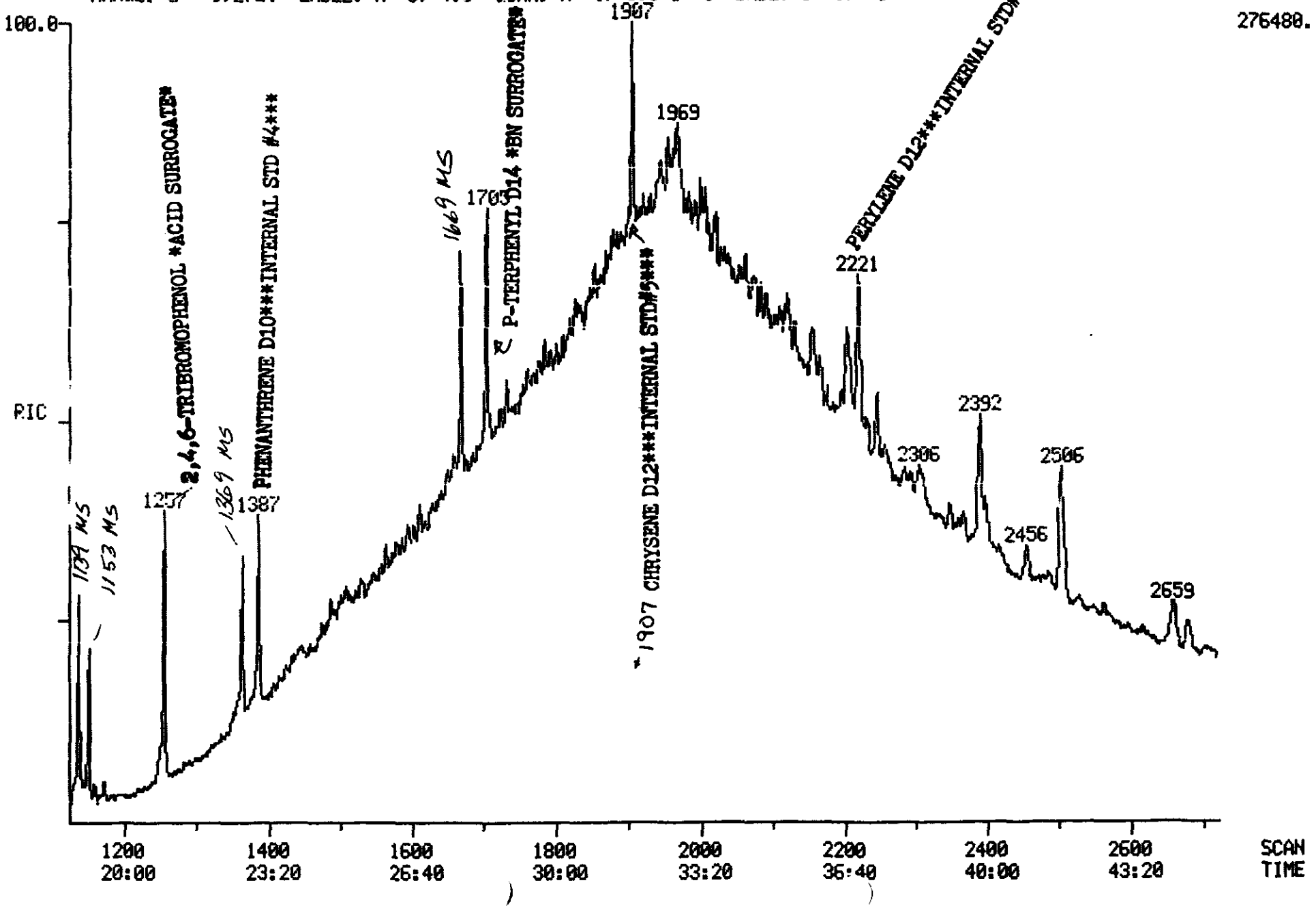
100531

ORIGINAL (Red)

RIC
05/15/90 17:59:00
SAMPLE: CLP,VERSCDM,2536,1MS,M,S,16419MS,B,,420.1,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2592 #1
CALI: T2592 #2

SCANS 1125 TO 2720



Quantitation Report File: T2592

ORIGINAL (Red)

Data: T2592.TI
05/15/90 17:59:00
Sample: CLP,VERSCDM,2536,1MS,M,S,16419MS,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

DB 5/22/90

ORIGINAL
(Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	547	9:07	1	1.000	A BB	17106.	40.000 NG/UL	3.07
2	128	519	8:39	1	0.949	A BB	41953.	77.164 NG. MS	5.92
3	94	503	8:23	1	0.920	A BB	61750.	82.537 NG. MS	6.33
4	93	519	8:39	1	0.949	A BB	1360.	~~1.982 NG~~	0.15
5	146	550	9:10	1	1.005	A BB	24903. M/S ID	~~39.225 NG~~	3.01
6	146	550	9:10	1	1.005	A BB	24903.	38.008 NG. MS	2.92
7	NOT FOUND								
8	NOT FOUND								
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	70	626	10:26	1	1.144	A BB	29536.	38.227 NG. MS	2.93
14	112	366	6:06	1	0.669	A BB	42627.	94.360 NG*A1	7.24
15	99	501	8:21	1	0.916	A BB	58717.	89.103 NG*A2	6.83
16	136	768	12:48	16	1.000	A BB	52399.	40.000 NG/UL	3.07
17	NOT FOUND								
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	180	760	12:40	16	0.990	A BB	23018.	40.520 NG MS	3.11
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	107	881	14:41	16	1.147	A BB	62398.	88.055 NG. MS	6.75
29	NOT FOUND								
30	82	647	10:47	16	0.842	A BB	42443.	45.163 NG*B1	3.46
31	164	1102	18:22	31	1.000	A BB	47616.	40.000 NG/UL	3.07
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	153	1108	18:28	31	1.005	A BB	55625.	36.843 NG. MS	2.83
41	NOT FOUND								
42	NOT FOUND								
43	168	1138	18:58	31	1.033	A BB	282.	~~0.132 NG~~	0.01
44	109	1139	18:59	31	1.034	A BB	26539.	72.165 NG. MS	5.54
45	165	1153	19:13	31	1.046	A BB	23475.	38.662 NG. MS	2.97
46	NOT FOUND								
47	NOT FOUND								
48	149	1201	20:01	31	1.090	A BB	484.	~~0.222 NG~~	0.02
49	NOT FOUND								
50	NOT FOUND								

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:37	1.00	0.949	1.00	77.16	50.00	1.962	1.271	1.54
3	8:20	1.01	0.917	1.00	82.54	50.00	2.888	1.749	1.65
4	8:33	1.01	0.941	1.01	1.98	50.00	0.064	1.605	0.04
5	8:59	1.02	0.989	1.02	39.22	50.00	1.165	1.485	0.78
6	9:08	1.00	1.006	1.00	38.01	50.00	1.165	1.532	0.76
7	9:38		1.061						
8	9:34		1.053						
9	10:00		1.101						
10	9:55		1.092						
11	10:27		1.150						
12	10:20		1.138						
13	10:25	1.00	1.147	1.00	38.23	50.00	1.381	1.807	0.76
14	6:03	1.01	0.666	1.00	94.36	50.00	1.994	1.056	1.89
15	8:18	1.01	0.914	1.00	89.10	50.00	2.746	1.541	1.78
16	12:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:48		0.846						
18	11:28		0.898						
19	11:43		0.918						
20	11:52		0.930						
21	12:12		0.956						
22	12:24		0.971						
23	12:38	1.00	0.990	1.00	40.52	50.00	0.351	0.434	0.81
24	12:49		1.004						
25	12:14		0.958						
26	13:07		1.027						
27	13:22		1.047						
28	14:38	1.00	1.146	1.00	88.06	50.00	0.953	0.541	1.76
29	14:57		1.171						
30	10:45	1.00	0.842	1.00	45.16	50.00	0.648	0.717	0.90
31	18:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:39		0.854						
33	15:57		0.870						
34	16:04		0.876						
35	16:29		0.899						
36	17:01		0.928						
37	17:50		0.973						
38	17:43		0.966						
39	17:58		0.980						
40	18:26	1.00	1.005	1.00	36.84	50.00	0.935	1.268	0.74
41	18:22		1.002						
42	18:40		1.018						
43	18:56	1.00	1.033	1.00	0.13	50.00	0.005	1.796	0.00
44	18:56	1.00	1.033	1.00	72.17	50.00	0.446	0.309	1.44
45	19:11	1.00	1.046	1.00	38.66	50.00	0.394	0.510	0.77
46	20:03		1.094						
47	20:05		1.095						
48	20:00	1.00	1.091	1.00	0.22	50.00	0.008	1.835	0.00
49	20:21		1.110						
50	20:27		1.115						

Quantitation Report File: T2592

ORIGINAL (Red)

Data: T2592.TI
05/15/90 17:59:00
Sample: CLP,VERSCDM,2536,1MS,M,S,16419MS,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	172	975	16:15	31	0.885	A BB	62907.	41.227 NG*B2	3.16
55	188	1387	23:07	55	1.000	A BB	89790.	40.000 NG/UL	3.07
56	266	1363	22:43	55	0.983	A BB	23411.	72.829 NG. MS	5.59
57	178	1391	23:11	55	1.003	A VB	304.	~~0.123 NG~~	0.01
58	NOT FOUND								
59	149	1517	25:17	55	1.094	A BB	1020.	~~0.268 NG~~	0.02
60	202	1625	27:05	55	1.172	A BB	166.	~~0.064 NG~~	0.00
61	202	1669	27:49	63	0.876	A BB	103421.	36.413 NG. MS	2.79
62	330	1257	20:57	31	1.141	A BB	32707.	87.720 NG*A3	6.73
63	240	1906	31:46	63	1.000	A BB	86353.	40.000 NG/UL	3.07
64	149	1811	30:11	63	0.950	A BB	268.	~~0.157 NG~~	0.01
65	NOT FOUND								
66	228	1909	31:49	63	1.002	A BB	850.	~~0.524 NG~~	0.04

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT FOUND								
68	149	1921	32:01	63	1.008	A VB	1536.	~~0.650 NG~~	0.05
69	244	1705	28:25	63	0.895	A BB	75975.	40.712 NG*B3	3.12
70	264	2221	37:01	70	1.000	A BB	82222.	40.000 NG/UL	3.07
71	NOT FOUND								
72	252	2109	35:09	70	0.950	A BV	510.	~~0.215 NG~~	0.02
73	252	2118	35:18	70	0.954	A VV	1018.	~~0.496 NG~~	0.04
74	NOT FOUND								
75	NOT FOUND								
76	NOT FOUND								
77	NOT FOUND								

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:32		1.120						
52	21:39		1.181						
53	22:03		1.203						
54	16:13	1.00	0.885	1.00	41.23	50.00	1.057	1.282	0.82
55	23:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:40	1.00	0.983	1.00	72.83	50.00	0.209	0.143	1.46
57	23:08	1.00	1.003	1.00	0.12	50.00	0.003	1.099	0.00
58	23:17		1.009						
59	25:14	1.00	1.094	1.00	0.27	50.00	0.009	1.695	0.01
60	27:01	1.00	1.171	1.00	0.06	50.00	0.001	1.160	0.00
61	27:45	1.00	0.875	1.00	36.41	50.00	0.958	1.316	0.73
62	20:54	1.00	1.140	1.00	87.72	50.00	0.550	0.313	1.75
63	31:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	30:07	1.00	0.950	1.00	0.16	50.00	0.002	0.792	0.00
65	31:39		0.998						
66	31:47	1.00	1.003	1.00	0.52	50.00	0.008	0.752	0.01
67	31:40		0.999						
68	31:57	1.00	1.008	1.00	0.65	50.00	0.014	1.094	0.01
69	28:21	1.00	0.894	1.00	40.71	50.00	0.704	0.864	0.81
70	36:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:49		0.918						
72	35:13	1.00	0.956	0.99	0.22	50.00	0.005	1.154	0.00
73	35:19	1.00	0.958	1.00	0.50	50.00	0.010	0.999	0.01
74	36:36		0.993						
75	42:54		1.164						
76	43:04		1.169						
77	44:45		1.214						

Quantitation Report File: QCREF

ORIGINAL (Red)

Data: T2592.TI
05/15/90 17:59:00
Sample: CLP,VERSCDM,2536,1MS,M,S,16419MS,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

Scan	Time	Area(Hght)	Amount	Name
547	9:07	17106.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
768	12:48	52399.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1102	18:22	47616.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1387	23:07	89790.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1906	31:46	86353.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2221	37:01	82222.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
366	6:06	42627.	94.360 NG*A1	CS50 2-FLUOROPHENOL**ACID SU
501	8:21	58717.	89.103 NG*A2	CS45 PHENOL-D5**ACID SURR.**
1257	20:57	32707.	87.720 NG*A3	CS55 2,4,6,-TRIBROMOPHENOL**
647	10:47	42443.	45.163 NG*B1	CS20 NITROBENZENE-D5**BN SUR
975	16:15	62907.	41.227 NG*B2	CS25 2-FLUOROBIPHENYL**BN SU
1705	28:25	75975.	40.712 NG*B3	CS30 P-TERPHENYL-D14**BN SUR

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	9:05	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	23:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	31:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	36:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	6:03	1.01	0.666	1.00	94.36	50.00	1.994	1.056	1.89
8	8:18	1.01	0.914	1.00	89.10	50.00	2.746	1.541	1.78
9	20:54	1.00	1.140	1.00	87.72	50.00	0.550	0.313	1.75
10	10:45	1.00	0.842	1.00	45.16	50.00	0.648	0.717	0.90
11	16:13	1.00	0.885	1.00	41.23	50.00	1.057	1.282	0.82
12	28:21	1.00	0.894	1.00	40.71	50.00	0.704	0.864	0.81

Quantitation Report File: ISREF

ORIGINAL (Red)

Data: T2583.TI
05/15/90 9:42:00
Sample: CLP,,,SSTD 50,,,22658,B,CC-050,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: -

Data: T2592.TI
05/15/90 17:59:00
Sample: CLP,VERSCDM,2536,1MS,M,S,16419MS,B,,420.1,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD. #2**
4	CI40 NAPHTHALENE-D8**INT. STD. #2**
5	CI50 ACENAPHTHENE-D10**INT. STD. #3**
6	CI50 ACENAPHTHENE-D10**INT. STD. #3**
7	CI60 PHENANTHRENE-D10**INT. STD. #4**
8	CI60 PHENANTHRENE-D10**INT. STD. #4**
9	CI70 CHRYSENE-D12**INT. STD. #5**
10	CI70 CHRYSENE-D12**INT. STD. #5**
11	CI75 PERYLENE-D12**INT. STD. #6**
12	CI75 PERYLENE-D12**INT. STD. #6**

Scan	Time	Area(Hght)	Amount	Name
545	9:05	15588.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
547	9:07	17106.	43.895 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
766	12:46	52356.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
768	12:48	52399.	40.033 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1100	18:20	40125.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1102	18:22	47616.	47.468 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1384	23:04	81463.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1387	23:07	89790.	44.089 NG/UL	CI60 PHENANTHRENE-D10**INT.
1902	31:42	72781.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
1906	31:46	86353.	47.459 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2211	36:51	61203.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
2221	37:01	82222.	53.737 NG/UL	CI75 PERYLENE-D12**INT. STD.

Versar INC.

ORIGINAL
(Red)

MATRIX SPIKE DUPLICATE DATA

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1MSD ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419MSD

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2593

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.98

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
108-95-2	Phenol	29000	U
111-44-4	bis(2-Chloroethyl)ether	29000	U
95-57-8	2-Chlorophenol	29000	U
541-73-1	1,3-Dichlorobenzene	29000	U
106-46-7	1,4-Dichlorobenzene	29000	U
100-51-6	Benzyl alcohol	29000	U
95-50-1	1,2-Dichlorobenzene	29000	U
95-48-7	2-Methylphenol	29000	U
108-60-1	bis(2-Chloroisopropyl)ether	29000	U
106-44-5	4-Methylphenol	29000	U
621-64-7	N-Nitroso-di-n-propylamine	29000	U
67-72-1	Hexachloroethane	29000	U
98-95-3	Nitrobenzene	29000	U
78-59-1	Isophorone	29000	U
88-75-5	2-Nitrophenol	29000	U
105-67-9	2,4-Dimethylphenol	29000	U
65-85-0	Benzoic Acid	140000	U
111-91-1	bis(2-Chloroethoxy)methane	29000	U
120-83-2	2,4-Dichlorophenol	29000	U
120-82-1	1,2,4-Trichlorobenzene	29000	U
91-20-3	Naphthalene	29000	U
106-47-8	4-Chloroaniline	29000	U
87-68-3	Hexachlorobutadiene	29000	U
59-50-7	4-Chloro-3-methylphenol	29000	U
91-57-6	2-Methylnaphthalene	29000	U
77-47-4	Hexachlorocyclopentadiene	29000	U
88-06-2	2,4,6-Trichlorophenol	29000	U
95-95-4	2,4,5-Trichlorophenol	140000	U
91-58-7	2-Chloronaphthalene	29000	U
88-74-4	2-Nitroaniline	140000	U
131-11-3	Dimethylphthalate	29000	U
208-96-8	Acenaphthylene	29000	U
606-20-2	2,6-Dinitrotoluene	29000	U

1C

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

1MSD ORIGINAL (Red)

La Name: VERSAR INC. Contract: _____

Lab Code: VERSAR Case No.: 2536 SAS No.: _____ SDG No.: B2

Matrix: (soil/water) SOIL Lab Sample ID: 16419MSD

Sample wt/vol: 1.0 (g/mL) G Lab File ID: T2593

Level: (low/med) MED Date Received: 04/19/90

% Moisture: not dec. 33 dec. ____ Date Extracted: 04/29/90

Extraction: (SepF/Cont/Sonc) SONC Date Analyzed: 05/15/90

GPC Cleanup: (Y/N) N pH: 6.4 Dilution Factor: 0.98

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
99-09-2	3-Nitroaniline	140000	U
83-32-9	Acenaphthene	29000	U
51-28-5	2,4-Dinitrophenol	140000	U
100-02-7	4-Nitrophenol	140000	U
132-64-9	Dibenzofuran	29000	U
121-14-2	2,4-Dinitrotoluene	29000	U
84-66-2	Diethylphthalate	29000	U
7005-72-3	4-Chlorophenyl-phenylether	29000	U
86-73-7	Fluorene	29000	U
100-01-6	4-Nitroaniline	140000	U
534-52-1	4,6-Dinitro-2-methylphenol	140000	U
86-30-6	N-nitrosodiphenylamine (1)	29000	U
101-55-3	4-Bromophenyl-phenylether	29000	U
118-74-1	Hexachlorobenzene	29000	U
87-86-5	Pentachlorophenol	140000	U
85-01-8	Phenanthrene	29000	U
120-12-7	Anthracene	29000	U
84-74-2	Di-n-butylphthalate	29000	U
206-44-0	Fluoranthene	29000	U
129-00-0	Pyrene	29000	U
85-68-7	Butylbenzylphthalate	29000	U
91-94-1	3,3'-Dichlorobenzidine	58000	U
56-55-3	Benzo(a)anthracene	29000	U
218-01-9	Chrysene	29000	U
117-81-7	bis(2-Ethylhexyl)phthalate	29000	U
117-84-0	Di-n-octyl phthalate	29000	U
205-99-2	Benzo(b)fluoranthene	29000	U
207-08-9	Benzo(k)fluoranthene	29000	U
50-32-8	Benzo(a)pyrene	29000	U
193-39-5	Indeno(1,2,3-cd)pyrene	29000	U
53-70-3	Dibenz(a,h)anthracene	29000	U
191-24-2	Benzo(g,h,i)perylene	29000	U

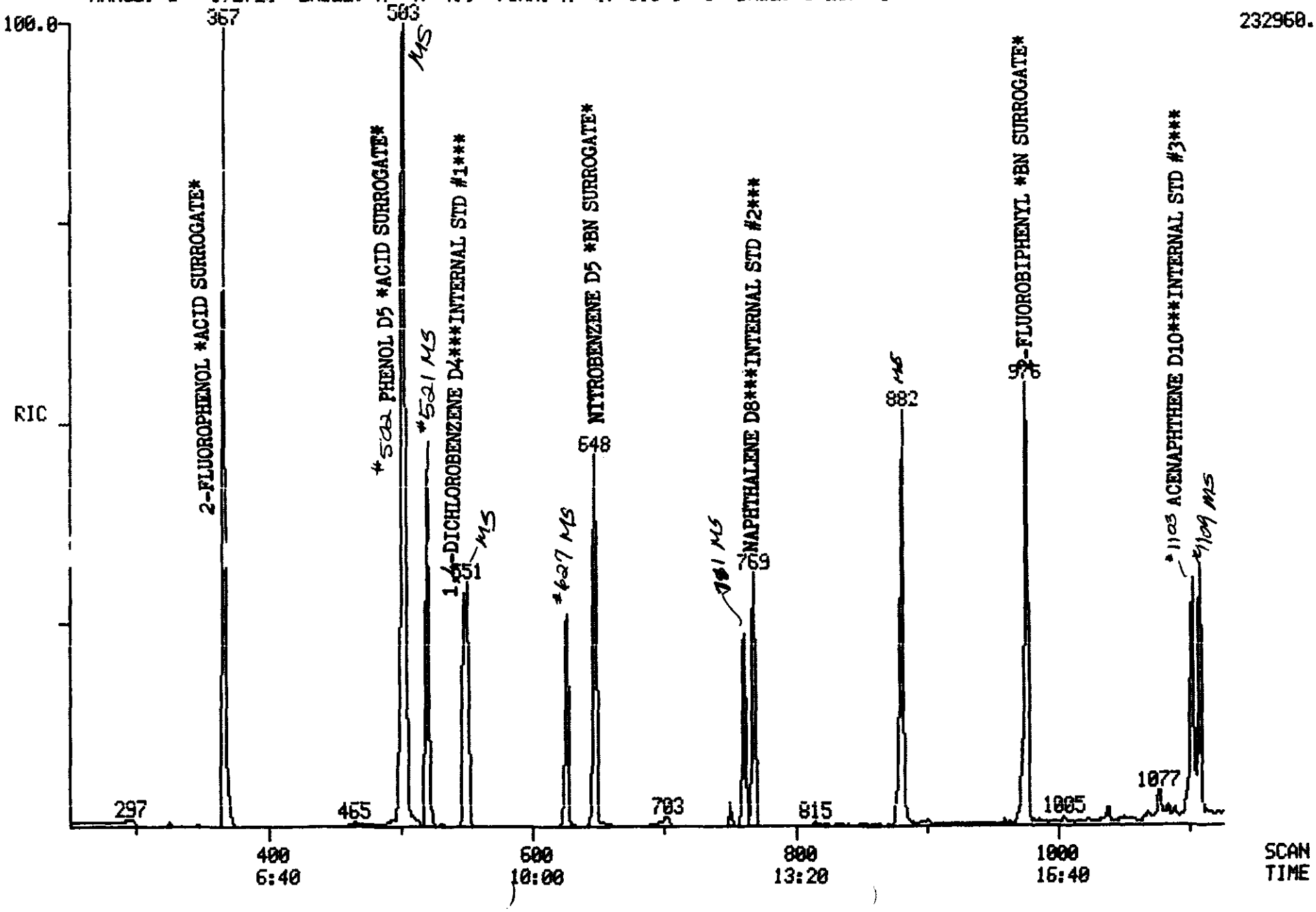
(1) - Cannot be separated from Diphenylamine

ORIGINAL (Red)

RIC
05/15/90 18:53:00
SAMPLE: CLP,VERSCDM,2536,1MSD,M,S,16413MSD,B,,420.2,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2593 #1
CALI: T2593 #2

SCANS 250 TO 1125



100542

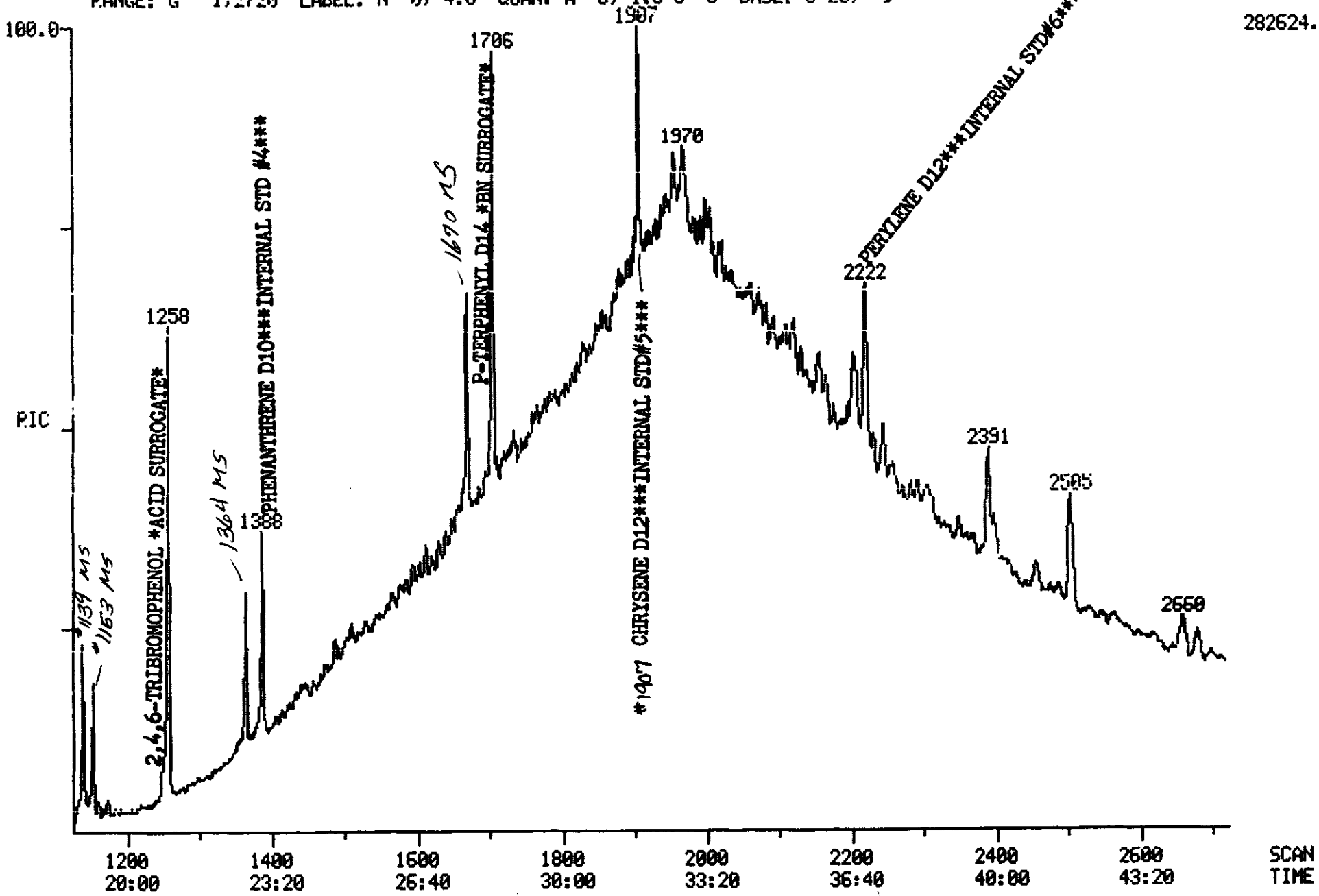
ORIGINAL (Red)

100543

RIC
05/15/90 18:53:00
SAMPLE: CLP,VEPSCDM,2536,1MSD,M,S,16419MSD,P,,420.2,2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: T2593 #1
CALI: T2593 #2

SCANS 1125 TO 2720



Quantitation Report File: T2593

ORIGINAL (Red)

Data: T2593.TI
05/15/90 18:53:00
Sample: CLP,VERSCDM,2536,1MSD,M,S,16419MSD,B,,420.2,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

AB 5/22/90

T2593

ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)		Amount		%Tot
1	152	548	9:08	1	1.000	A BB	16478.		40.000	NG/UL	2.58
2	128	521	8:41	1	0.951	A BB	38763.	ms	74.014	NG.	4.77
3	94	504	8:24	1	0.920	A BB	56801.	ms	78.815	NG.	5.08
4	NOT FOUND										
5	146	551	9:11	1	1.005	A BB	22546.		~~86.866 NG~~	HIS ID	2.38
6	146	551	9:11	1	1.005	A BB	22546.	ms	35.722	NG.	2.30
7	NOT FOUND										
8	NOT FOUND										
9	NOT FOUND										
10	NOT FOUND										
11	NOT FOUND										
12	NOT FOUND										
13	70	627	10:27	1	1.144	A BB	26510.	ms	35.618	NG.	2.30
14	112	367	6:07	1	0.670	A BB	79487.		182.660	NG*A1	11.77
15	99	502	8:22	1	0.916	A BB	104575.		164.741	NG*A2	10.62
16	136	769	12:49	16	1.000	A BB	50975.		40.000	NG/UL	2.58
17	NOT FOUND										
18	NOT FOUND										
19	NOT FOUND										
20	NOT FOUND										
21	NOT FOUND										
22	NOT FOUND										
23	180	761	12:41	16	0.990	A BB	20622.	ms	37.316	NG.	2.40
24	NOT FOUND										
25	NOT FOUND										
26	NOT FOUND										
27	NOT FOUND										
28	107	882	14:42	16	1.147	A BB	54298.	ms	78.765	NG.	5.08
29	NOT FOUND										
30	82	648	10:48	16	0.843	A BB	74389.		81.368	NG*B1	5.24
31	164	1103	18:23	31	1.000	A BB	45437.		40.000	NG/UL	2.58
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	153	1109	18:29	31	1.005	A BB	47924.	ms	33.265	NG.	2.14
41	NOT FOUND										
42	NOT FOUND										
43	168	1139	18:59	31	1.033	A BB	202.		~~0.099 NG~~		0.01
44	109	1139	18:59	31	1.033	A BB	25109.	ms	71.550	NG.	4.61
45	165	1153	19:13	31	1.045	A BB	21511.	ms	37.127	NG.	2.39
46	NOT FOUND										
47	NOT FOUND										
48	NOT FOUND										
49	NOT FOUND										
50	NOT FOUND										

T2593

ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	9:05	1.01	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:37	1.01	0.949	1.00	74.01	50.00	1.882	1.271	1.48
3	8:20	1.01	0.917	1.00	78.82	50.00	2.758	1.749	1.58
4	8:33		0.941						
5	8:59	1.02	0.989	1.02	36.87	50.00	1.095	1.485	0.74
6	9:08	1.01	1.006	1.00	35.72	50.00	1.095	1.532	0.71
7	9:38		1.061						
8	9:34		1.053						
9	10:00		1.101						
10	9:55		1.092						
11	10:27		1.150						
12	10:20		1.138						
13	10:25	1.00	1.147	1.00	35.62	50.00	1.287	1.807	0.71
14	6:03	1.01	0.666	1.01	182.66	50.00	3.859	1.056	3.65
15	8:18	1.01	0.914	1.00	164.74	50.00	5.077	1.541	3.29
16	12:46	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:48		0.846						
18	11:28		0.898						
19	11:43		0.918						
20	11:52		0.930						
21	12:12		0.956						
22	12:24		0.971						
23	12:38	1.00	0.990	1.00	37.32	50.00	0.324	0.434	0.75
24	12:49		1.004						
25	12:14		0.958						
26	13:07		1.027						
27	13:22		1.047						
28	14:38	1.00	1.146	1.00	78.77	50.00	0.852	0.541	1.58
29	14:57		1.171						
30	10:45	1.00	0.842	1.00	81.37	50.00	1.167	0.717	1.63
31	18:20	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:39		0.854						
33	15:57		0.870						
34	16:04		0.876						
35	16:29		0.899						
36	17:01		0.928						
37	17:50		0.973						
38	17:43		0.966						
39	17:58		0.980						
40	18:26	1.00	1.005	1.00	33.26	50.00	0.844	1.268	0.67
41	18:22		1.002						
42	18:40		1.018						
43	18:56	1.00	1.033	1.00	0.10	50.00	0.004	1.796	0.00
44	18:56	1.00	1.033	1.00	71.55	50.00	0.442	0.309	1.43
45	19:11	1.00	1.046	1.00	37.13	50.00	0.379	0.510	0.74
46	20:03		1.094						
47	20:05		1.095						
48	20:00		1.091						
49	20:21		1.110						
50	20:27		1.115						

Quantitation Report File: T2593

Data: T2593.TI
05/15/90 18:53:00
Sample: CLP,VERSCDM,2536,1MSD,M,S,16419MSD,B,,420.2,2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: SJD Acct. No.: 420.1

ORIGINAL (Red)

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)		Amount	%Tot
51	NOT FOUND									
52	NOT FOUND									
53	NOT FOUND									
54	172	976	16:16	31	0.885	A BB	103892.		71.352 NG*B2	4.60
55	188	1387	23:07	55	1.000	A BB	95586.		40.000 NG/UL	2.58
56	266	1364	22:44	55	0.983	A BB	22052.	MS	64.442 NG.	4.15
57	178	1392	23:12	55	1.004	A VV	427.	BRL	~~0.163 NG~~	0.01
58	NOT FOUND									
59	149	1518	25:18	55	1.094	A BB	987.	BRL	~~0.244 NG~~	0.02
60	202	1625	27:05	55	1.172	A BB	163.		~~0.059 NG~~	0.00
61	202	1670	27:50	63	0.876	A VB	96941.	MS	32.268 NG.	2.08
62	330	1258	20:58	31	1.141	A BB	58683.		164.934 NG*A3	10.63
63	240	1907	31:47	63	1.000	A BB	91341.		40.000 NG/UL	2.58
64	149	1811	30:11	63	0.950	A BB	272.	BRL	~~0.150 NG~~	0.01
65	NOT FOUND									
66	228	1910	31:50	63	1.002	A BB	907.	BRL	~~0.528 NG~~	0.03

T2593

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT FOUND								
68	149	1921	32:01	63	1.007	A BB	1774.	~~0.711 NG~~ (Rej)	0.04
69	244	1706	28:26	63	0.895	A BB	136072.	68.934 NG	4.34
70	264	2222	37:02	70	1.000	A BB	85319.	40.000 NG/UL	2.52
71	NOT FOUND								
72	252	2113	35:13	70	0.951	A*BV	1024.	ND ~~0.416 NG~~ bd	0.03
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								
76	NOT FOUND								
77	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:32		1.120						
52	21:39		1.181						
53	22:03		1.203						
54	16:13	1.00	0.885	1.00	71.35	50.00	1.829	1.282	1.43
55	23:04	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:40	1.00	0.983	1.00	64.44	50.00	0.185	0.143	1.29
57	23:08	1.00	1.003	1.00	0.16	50.00	0.004	1.099	0.00
58	23:17		1.009						
59	25:14	1.00	1.094	1.00	0.24	50.00	0.008	1.695	0.00
60	27:01	1.00	1.171	1.00	0.06	50.00	0.001	1.160	0.00
61	27:45	1.00	1.203	1.00	34.51	50.00	0.811	1.175	0.69
62	20:54	1.00	0.906	1.00	159.17	50.00	0.491	0.154	3.18
63	31:42	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	30:07	1.00	0.950	1.00	0.15	50.00	0.002	0.792	0.00
65	31:39		0.998						
66	31:47	1.00	1.003	1.00	0.53	50.00	0.008	0.752	0.01
67	31:40		0.999						
68	31:57	1.00	1.008	1.00	0.71	50.00	0.016	1.094	0.01
69	28:21	1.00	0.894	1.00	68.93	50.00	1.192	0.864	1.38
70	36:51	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:49		0.918						
72	35:13	1.00	0.956	1.00	0.42	50.00	0.010	1.154	0.01
73	35:19		0.958						
74	36:36		0.993						
75	42:54		1.164						
76	43:04		1.169						
77	44:45		1.214						

Versar INC.

VI. SAMPLE PREPARATION PACKAGE

1. Parameter Request Sheet
2. Screening Data Summary (soils only)
3. Comments
   a. Extraction
   b. Volatiles
   c. Semivolatiles
   d. Pesticides
4. Extraction Worksheets
   a. Chronicle
   b. Dry Weight Factor (soils only)
   c. Dilution Factor (B) Worksheets
5. Injection Sequence Logs
6. Chain of Custody

ORIGINAL (Red)

VERSAR LIMS 04/23/90

VERSAR LABORATORY OPERATIONS
*** [redacted] PARAMETER REQUEST SHEET ***

Deliver To: 46

Control: 2536
Code: VERSCDM
Batch: 2
Job Number: 420.1.0

Case: R3-7
SDG: 1
Quote: 9000194 - 90
Charge: 2

Manager: BECKMAN
Company: VERSAR DIV 31

Site: CDM

Received: 19-APR-90
Due: 17-MAY-90

Sampled: 18-APR-90
Report: 17-MAY-90

Comments: Protocols-Organic SOW 2/88; Inorganic Metals SOW 787 and CN SOW 788; TCLP by the new reg. Do sample QC on field # 1.

Test	Sample	X	C	Field Number	Matrix	Location	Other Tests		
BNAL - 48									
	16419	A		1 — QC FOR ANA MID SOILS	SLUDGE	C-82	XBNA		
	16420	A		2	SLUDGE	C-82	XBNA		
low GPC	16421	A		3	SLUDGE	C-82	XBNA		
	16422	A		5 — MID	SLUDGE	C-82	XBNA		
	16423	B		6 — 7 TOTAL	SLUDGE	C-82	XBNA		
	16424	B		7	SLUDGE	C-82	XBNA		
CLPM - 43									
	16401	A		1	SLUDGE	C-82			
	16402	A		2	SLUDGE	C-82			
	16403	A		3	SLUDGE	C-82			
	16404	A		5	SLUDGE	C-82			
	16405	B		6	SLUDGE	C-82			
	16432	B		7	SLUDGE	C-82			
CNM - 44									
	16406	A		1	SLUDGE	C-82	TS		
	16407	A		2	SLUDGE	C-82	TS		
	16408	A		3	SLUDGE	C-82	TS		
	16409	A		5	SLUDGE	C-82	TS		
	16410	B		6	SLUDGE	C-82	TS		
	16411	B		7	SLUDGE	C-82	TS		
PEST - 47									
	16412	A		1	SLUDGE	C-82	XPES		
low GPC	16413	A		2	SLUDGE	C-82	XPES		
	16414	A		3	SLUDGE	C-82	XPES		
	16415	A		5 — MID/NO QC	SLUDGE	C-82	XPES		
	16416	B		6 — 1 RB, 1 MS/SD 4 TOTAL	SLUDGE	C-82	XPES		
	16417	B		7	SLUDGE	C-82	XPES		
TCBN - 48									
	16418	B		1	SLUDGE	C-82	TCLM	TCLX	XTCB
							TCPS	XTCP	TCHB
							XTCH		
~~TCHB~~ - 47									
	16418	B		1	SLUDGE	C-82	TCLM	TCLX	TCBN
							XTCB	TCPS	XTCP
							XTCH		
TCLM - 43									

Continued ->

100550

ORIGINAL (Red)

Control #: 2536

Test	Sample	X	C	Field Number	Matrix	Location	Other Tests		
	16418	B		1	SLUDGE	C-82	TCLX	TCBN	XTCB
							TCPS	XTCP	TCHB
							XTCH		
TCLV - 48									
	16425	B		1	SLUDGE	GCMS	ZHE		
TCLX - 43									
	16418	B		1	SLUDGE	C-82	TCLM	TCBN	XTCB
							TCPS	XTCP	TCHB
							XTCH		
TCPS - 47									
	16418	B		1	SLUDGE	C-82	TCLM	TCLX	TCBN
							XTCB	XTCP	TCHB
							XTCH		
TS - 44									
	16406	A		1	SLUDGE	C-82	CNM		
	16407	A		2	SLUDGE	C-82	CNM		
	16408	A		3	SLUDGE	C-82	CNM		
	16409	A		5	SLUDGE	C-82	CNM		
	16410	B		6	SLUDGE	C-82	CNM		
	16411	B		7	SLUDGE	C-82	CNM		
VOAL - 48									
	16426	B		1	SLUDGE	GCMS			
	16427	B		2	SLUDGE	GCMS			
	16428	B		3	SLUDGE	GCMS			
	16429	B		5	SLUDGE	GCMS			
	16430	B		6	SLUDGE	GCMS			
	16431	B		7	SLUDGE	GCMS			
XBNA - 46									
	16419	A		1	SLUDGE	C-82	BNAL		
	16420	A		2	SLUDGE	C-82	BNAL		
	16421	A		3	SLUDGE	C-82	BNAL		
	16422	A		5	SLUDGE	C-82	BNAL		
	16423	B		6	SLUDGE	C-82	BNAL		
	16424	B		7	SLUDGE	C-82	BNAL		
XPES - 46									
	16412	A		1	SLUDGE	C-82	PEST		
	16413	A		2	SLUDGE	C-82	PEST		
	16414	A		3	SLUDGE	C-82	PEST		
	16415	A		5	SLUDGE	C-82	PEST		
	16416	B		6	SLUDGE	C-82	PEST		
	16417	B		7	SLUDGE	C-82	PEST		
XTCB - 46									
	16418	B		1	SLUDGE	C-82	TCLM	TCLX	TCBN
							TCPS	XTCP	TCHB
							XTCH		
XTCH - 46									
	16418	B		1	SLUDGE	C-82	TCLM	TCLX	TCBN
							XTCB	TCPS	XTCP
							TCHB		
XTCP - 46									
	16418	B		1	SLUDGE	C-82	TCLM	TCLX	TCBN
							XTCB	TCPS	TCHB
							XTCH		
ZHE - 43									
	16425	B		1	SLUDGE	GCMS	TCLV		

100551

RSAR INC. SAMPLE PREPARATION COMMENTS 1 OF 2 ORIGINAL

OJECT VERSCAN BATCH 2 CASE RS-7 CONTROL 2536

T...X SLUDGE PREPARATION PARAMETER BNA-PES

VERSAR SAMPLE NUMBER 16419/12	Very Black Soil with No Rocks; Soil Sticks together But ~~AFF~~ is Dry MH 4-23-90
FIELD SAMPLE NUMBER 1	Pesticide extract oiled out at ≈ 5 ml. To GPC Clean the extract was diluted to 10 ml. in CH_2Cl_2. 0.5 ml was diluted to 10 ml and the extract was GPC cleaned as normal. Post GPC extract should be concentrated to 0.5 ml. alumina cleaned, then vialed at 1 ml.
SOIL SAMPLE pH 6.39	
VERSAR SAMPLE NUMBER 16420	Soil is Red/Brown in color with No Rocks But has a large amount of Very Fine Roots. Soil Sticks Together But is Dry MH 4-23-90
FIELD SAMPLE NUMBER 2	
SOIL SAMPLE pH 8.11	
VERSAR SAMPLE NUMBER 16421	Soil is Red/Brown in color with No Rock. Soil Sticks Together But is Dry MH 4-23-90
FIELD SAMPLE NUMBER 3	

100559

VERSAR INC.

SAMPLE PREPARATION COMMENT SHEET

1 OF 8 ORIGINAL (Red)

PROJECT VERSCDM BATCH 2 CASE R5-7

CONTROL 2536

MATRIX SLUDGE PREPARATION PARAMETER BNA-PES

VERSAR SAMPLE NUMBER 16419	Very Black Soil with No Rocks; Soil Sticks together But ~~Are~~ is Dry MH 4-23-90
FIELD SAMPLE NUMBER 1	
SOIL SAMPLE pH 6.39	
VERSAR SAMPLE NUMBER 16420	Soil is Red/Brown in Color with No Rocks But has a Large Amout of Very Fine Roots. Soil Sticks Together But is Dry MH 4-23-90
FIELD SAMPLE NUMBER 2	
SOIL SAMPLE pH 8.11	
VERSAR SAMPLE NUMBER 16421	Soil is Red/Brown in Color with No Rock. Soil Sticks together But is Dry MH 4-23-90
FIELD SAMPLE NUMBER 3	
SOIL SAMPLE 8.00	

VERSAR INC.

SAMPLE PREPARATION COMMENT SHEET

2 OF 2

ORIGINAL (Red)

PROJECT Versar BATCH 2 CASE R3-7

CONTROL 2536

MATRIX SLUDGE PREPARATION PARAMETER BNA-PEST

VERSAR SAMPLE NUMBER 16422	Very Black in color, with a large amount of small Black Rocks. Sample is very wet, with standing water on top of sample MH 4-23-90
FIELD SAMPLE NUMBER 5	
SOIL SAMPLE pH 8.05	
VERSAR SAMPLE NUMBER 16423	Soil is more sandy than soil, it is Black in Color with a large amount of rocks, soil is very wet with standing water above sample MH 4-23-90
FIELD SAMPLE NUMBER 6	
SOIL SAMPLE pH 7.75	
VERSAR SAMPLE NUMBER 16424	Soil is Grey and Black in color with a large amount of Both large and small rocks. Soil is Dry MH 4-23-90
FIELD SAMPLE NUMBER 7	
SOIL SAMPLE 8.00	

GPC SAMPLE IDENTIFICATION LOG PAGE 1 OF 1

ORIGINAL (RED)

2565 0400RE

6 EC
Om Suns

4, 1

10-90

DUMP TIME 21 min

COLLECT TIME 21 min

WASH TIME 20 min

GPC CALIBRATION # 22502

CALIBRATION STD 3 ml

EX. VOL 10 ml

INJECT VOL 5ml

*30 ml of dilution + 9.5 ml of undiluted extract.

REMAINING EXTRACT VOLUME 3 ml

No.	SAMPLE #	FIELD #	REMARKS
1	16412*	1	9.5 ml of extract Diluted to 10ml
2	16412* ms	1	See Sample Comment
3	16412* msD	1	
4	16413	2	
5	16414	3	
6	16424	7	
7	RB 7966	—	
8	MSD 3049	—	
9	16912	18	
10	16914	12	
11	16915	13	
12A/12B	16916 / 16917	14 / 15	
13	GPC BLANK	—	
14	RB 8000	—	
15	MSD 3063	—	
16	16910	8	
17	13693msD	62SB107090101XX	Re-extracted due to Bad
18	RB 8060		GPC Clean-up on the first RUN.
19			
20			
21			
22			
23			

Verscom 0.2

Verscom B4

EC Suns 0.1

100555

GTC STD 1

05-07-90

ORIGINAL (Red)

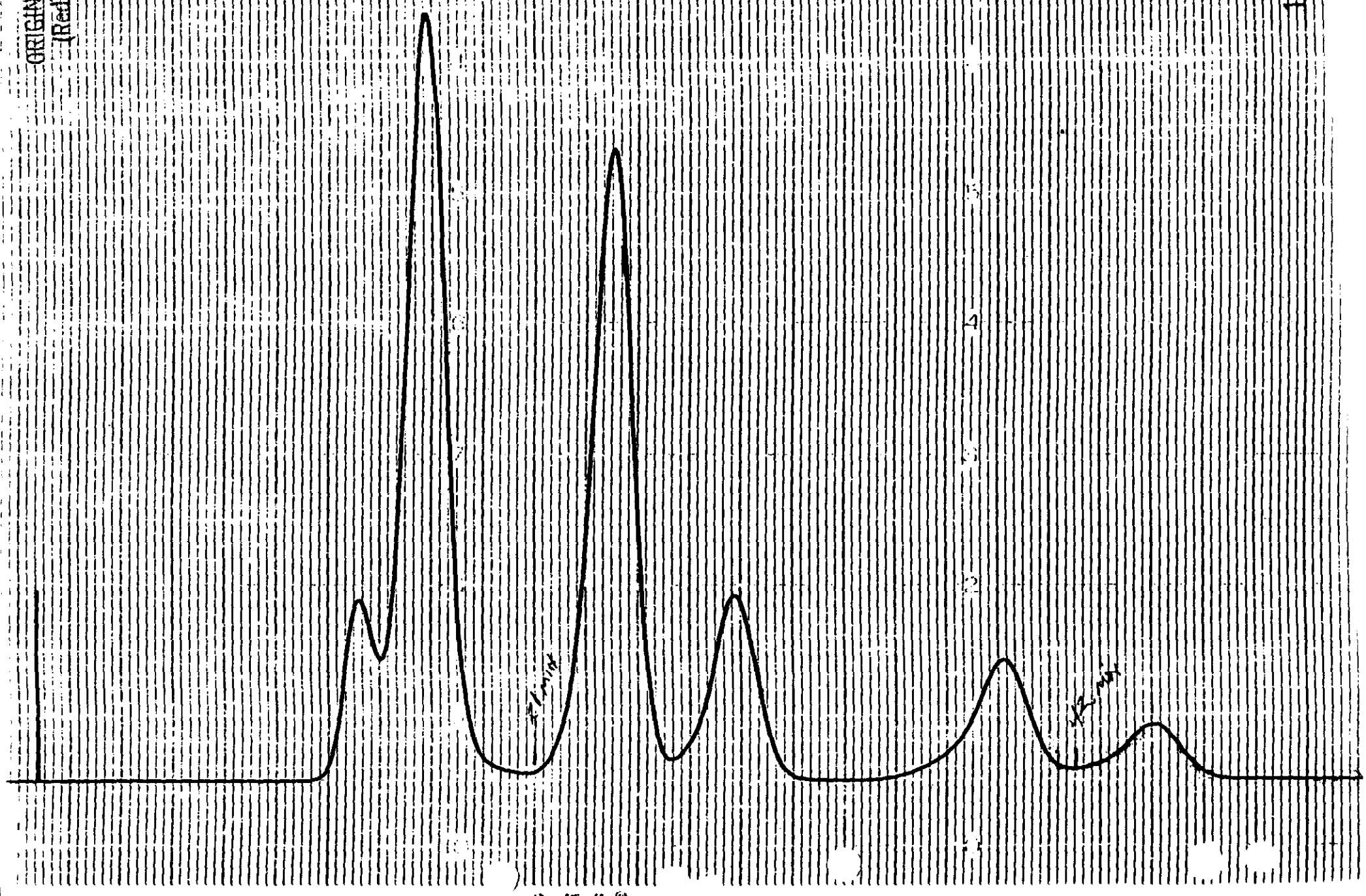


FIGURE 6

ORIGINAL
(Red)

GPC-KD-D
4-17-90

100557

ORIGINAL
(Red)

EXTRACTS READY FOR ANALYSIS

DATE 5-14-90

CODE VERSCDM BATCH 2 CONTROL # 2536

DATE RECEIVED 4-19-90 DATE EXTRACTED 4-26-90

OF EXTRACT 5 # OF SAMPLES 3

MATRIX Soil PARAMETER BNA LOCATION 3

IS THIS A RE-EXTRACTION? NO

COMMENTS 16413, 16414, 16424, RB7966, GPC Blank

TECHNICIAN SIGNATURE M. Hu

==========

SUPERVISOR USE ONLY

PROVIDE AN EXPLANATION IF ANSWER IS NO

Was the extraction holding time met?	☑ YES	☐ NO
Was proper QC performed with the extraction?	☑ YES	☐ NO
Are all columns complete, initialed, and dated?	☑ YES	☐ NO
Is column information accurate?	☑ YES	☐ NO
Is header information complete and accurate?	☑ YES	☐ NO
Were the correct standards used in the extraction?	☑ YES	☐ NO
Are final volumes correct?	☑ YES	☐ NO
Are sample comments included, initialed and dated?	☑ YES	☐ NO
Are dry weights included with the data package?	☑ YES	☐ NO
Are dry weights correct?	☑ YES	☐ NO

What clean-up procedure was used? GPC

SUPERVISOR Kathy Jones SECTION CHIEF

100558

VERSAR INC. LOW LEVEL SOIL SAMPLE EPARATION SHEET -BY SONICATI

22549 B/N 100ppm Acid 200 ppm

CONTROL 2536

PROJECT VERSCAM

BATCH 2

CASE 90 B37

DATE 04-26-90

SPIKING SOLUTIONS

M.S. BNA 22402 S.S.S. BNA 22549

M.S. PEST B931 S.S.S. PEST B928

PAGE 1 OF 1

EXTRACTION PARAMETER BNA-Pest

DATE EXTRACTION COMPLETED 4-26-90

ADSORBENT BATCH NUMBER ALUMINA

VERSAR SAMPLE NUMBER	FIELD SAMPLE NUMBER	SAMPLE WEIGHT IN GRAMS	SPIKE VOL. BNA MS	SPIKE VOL. BNA SSS	SPIKE VOL. PEST MS	SPIKE VOL. PEST SSS	INITIAL EXTRACT FINAL VOL	VOLUME TO GPC IN ML.	FINAL GPC VOLUME	VOLUME TO PEST CLEAN UP	VOLUME TO BNA	FINAL PEST VOLUME	FINAL BNA VOLUME	SAMPLE COMMENTS
16412	1	30.02	—	1ml	—	1ml	10 ml	0.25ml	~~0.5mL~~ 5mL	0.5 mL	9.5 mL	1.0 mL	—	don't Vial BNA
16413	2	30.08	—	1ml	—	1ml		10mL	~~10mL~~ 5mL				1.0mL	
16414	3	30.73	—	1ml	—	1ml		10mL	~~10mL~~ 5mL					
16424	7	30.29	—	1ml	—	1ml		10 mL	~~10mL~~ 5mL					
BB 7966	BLK 66	—	—	1ml	—	1ml		10mL	~~10mL~~ 5mL					
MSTA 3049	—	—	2ml	1ml	1ml	1ml		10mL	~~10mL~~ 5mL		—		—	Don't Vial BNA
16412 MS	1	30.08	2ml	1ml	1ml	1ml		0.25mL	4-27-90 0.5mL		—		—	BNA Not needed for Low level
16412 MSD	1	30.08	2ml	1ml	1ml	1ml			0.5mL		—		—	
			4-26-90				5-10-90	5-10-90	5-10-90	MH	5-14-90	MH	5-14-90	

see sample comm

ORIGINAL (Red)

100559

VERSAR In LOW LEVEL SOIL SAMPLE (PARATION SH -BY SONICATIO

CONTROL 2554

PROJECT PNSY

BATCH 1

CASE —

DATE 04-26-90

SPIKING SOLUTIONS

M.S. BNA 22402 S.S.S. BNA 22549

M.S. PEST — S.S.S. PEST —

PAGE 1 OF 1

EXTRACTION PARAMETER BASAL

DATE EXTRACTION COMPLETED 4-26-90

ADSORBENT BATCH NUMBER A

VERSAR SAMPLE NUMBER	FIELD SAMPLE NUMBER	SAMPLE WEIGHT IN GRAMS	SPIKE VOL. BNA MS	SPIKE VOL. BNA SSS	SPIKE VOL. PEST MS	SPIKE VOL. PEST SSS	INITIAL EXTRACT FINAL VOL.	VOLUME TO GPC IN ML.	FINAL GPC VOLUME	VOLUME TO PEST CLEAN UP	VOLUME TO BNA	FINAL PEST VOLUME	FINAL BNA VOLUME	SAMPLE COMMENTS
16830	S-BN-2-SS-0-2	30.42	—	1ml	—	—	10mL	3mL ~~N/A~~	10mL ~~N/A~~	N/A	1mL	N/A	1mL	
16830MS	S-BN-2-SS-0-2	30.12	2ml	1ml	—	—		NV 5-23-90	NV 5-23-90					
16830MSD	S-BN-2-SS-0-2	30.17	2ml	1ml	—	—	20mL						.5ml	concentrate to .5 ml. (M)
16831	S-BN-[illegible]-SS-0-2	30.80	—	1ml	—	—	10mL						1ml (P)	
16832	S-BN-5-SS-0-2	30.13	—	1ml	—	—	NV 5-23-90							
BB 7965	BLK 65	—	—	1ml	—	—								
		—	Ag Ag 4-26-90				5/10/90	5/10/90	5/10/90	5/10/90	5/10/90	5-29-90	~~5-29-90~~ RW 5-14-90	

ORIGINAL (Red)

100560

Due May 17

ORIGINAL
(Red)

EXTRACTS READY FOR ANALYSIS

DATE 5-1-90

CODE VERSCDM BATCH 2 CONTROL # 2536

DATE RECEIVED 4/19/90 DATE EXTRACTED 4-29-90

OF EXTRACT ~~3~~ 7 EHD # OF SAMPLES 3

MATRIX SOIL-MID PARAMETER BNA LOCATION 3

IS THIS A RE-EXTRACTION? NO

COMMENTS

TECHNICIAN SIGNATURE E. Geek

==========

SUPERVISOR USE ONLY

PROVIDE AN EXPLANATION IF ANSWER IS NO

Was the extraction holding time met?	☑ YES	☐ NO
Was proper QC performed with the extraction?	☑ YES	☐ NO
Are all columns complete, initialed, and dated?	☑ YES	☐ NO
Is column information accurate?	☑ YES	☐ NO
Is header information complete and accurate?	☑ YES	☐ NO
Were the correct standards used in the extraction?	☑ YES	☐ NO
Are final volumes correct?	☑ YES	☐ NO
Are sample comments included, initialed and dated?	☑ YES	☐ NO
Are dry weights included with the data package?	☑ YES	☐ NO
Are dry weights correct?	☑ YES	☐ NO

What clean-up procedure was used? N/A

SUPERVISOR Kathy Jones SECTION CHIEF J. [illegible]

100561

22549 } B/N 100ppm
Acid 200ppm

VERSAR INC. MEDIUM LEVEL SOLID SAMPLE PREPARATION SHEET -BY SONICATION

PROJECT VERSCAM
CASE R3-7
BATCH 2
DATE 4-29-90 GC# 2536

SPIKING SOLUTIONS
M.S. BNA 22402
M.S. PEST —
S.S.S BNA 22549
S.S.S PEST —

PAGE 1 OF 1
EXTRACTION PARAMETER BNA
DATE EXTRACTION COMPLETED 4-29-90
ADSORBENT BATCH NUMBER NA

VERSAR SAMPLE NUMBER	FIELD SAMPLE NUMBER	SAMPLE WEIGHT IN GRAMS	SPIKE VOL. BNA MS	SPIKE VOL. BNA SSS	SPIKE VOL. PEST MS	SPIKE VOL. PEST SSS	TOTAL EXTRACTION VOLUME	ALIQUOT OF EXTRACT TO BNA	BNA FINAL VOLUME	ALIQUOT OF EXTRACT TO PEST	COLUMN CLEAN UP YES/NO	PEST FINAL VOLUME	SAMPLE COMMENTS
16419	1	1.13	✓	1ML	—		10 mls	5mls	1ML	NA	NA	NA	
16422	5	1.20	✓		—								
16423	6	1.02	✓		—								
RB7982	SBLK82	—	✓		—								
RB7983	SBLK83	—	✓		—								
16419MS	1	1.13	1ML		—								
16419SS	1	1.01	1ML		—								
		END		END 4-29-90			END 4-29-90	END 4-29-90	END 5-1-90	END	END	END	

ORIGINAL (Red)

100562

VERSAR INC. Total Solids

ORIGINAL (Red)

Project :VERSCDM Case :N/A Batch :2

Date :04-24-1990 Analyst :MN

Versar Sample#	Field Sample#	Tray Weight	Tray + Wet Wt Sample	Net Wet Weight Sample	Tray + Dry Wt Sample	Net Dry Weight Sample	% Moisture	Dry Weight Factor
16419	1	1.00g	6.02g	5.02g	4.38g	3.38g	32.7%	1.49
16420	2	1.01g	6.21g	5.20g	4.64g	3.63g	30.2%	1.43
16421	3	0.99g	6.16g	5.17g	4.90g	3.91g	24.4%	1.32
16422	5	0.98g	6.02g	5.04g	3.48g	2.50g	50.4%	2.02
16423	6	0.99g	6.13g	5.14g	3.52g	2.53g	50.8%	2.03
16424	7	0.99g	6.08g	5.09g	5.84g	4.85g	4.7%	1.05

GCMS INSTRUMENT ID T
DATE 05-15-90

INJECTION LOG

T051590 . 91/45Q

Filename	ASCII Filename	Streamer ID	Method	Case	SDG	Field Sample ID	Level	Matrix	Versar Sample No.	Fraction	Type	Project	Batch	Ext. Vol.	Comb. Vol.	Final Vol.	Dil.	IS Vol.	IS No.	B Factor
T2596		221				50ng DFTPP			22486											
T2597		221				50ng DFTPP			22486		MET	@ 2240		(1040pm)						
T2598	B	221	CLP			SSID 50			22658	B	CC 50	Ran TOALIB								
T2599		221	CLP	VERS CDM	2536	5	M	S	16422	B	-	420.1	2	1mL	.4mL	.4mL		4µL	22078	
T2600		221	CLP		2536	SBLK 13	L	W	RB8013	B	BLK	420.1	2,4	1mL	.2mL	.4mL		4µL	22078	
T2601		221	CLP			1	L	W	16418	B	-		2							
T2602		221	CLP			1 ms	L	W	16418 MS	B	-		2							
~~T2603~~		~~221~~	~~CLP~~			~~1 msd~~	~~L~~	~~W~~	~~16418 msd~~	~~B~~	~~-~~		~~2~~	not analyzed.						
T2604 03		221	CLP		2565	11	L	W	16960	B	-		4							
T2605 04		221	CLP			EXT BLK 1	L	W	EBLK1	B	-		2,4							
T2606 05		221	CLP			EXT BLK 2	L	W	EBLK2	B	-		2,4							
T2607 06		221	CLP	VERS CDM	2565	SBLK 03	M	S	RB8003	B	BLK	420.1	4	1mL	.4mL	.4mL		4µL	22078	
T2608 07		221	CLP			4	M	S	16909	B	-		4							
T2609 08		221	CLP			9	M	S	16911	B	-		4							
T2610 09		221	CLP			10	M	S	16912	B	-		4							
T2610		221	CLP	VERS CDM	2536	1 MSD	L	W	16418MSD	B	-	420.1	2	1ml	.2ml	.4ml		4µl	22078	

T00564

ORIGINAL

* autosampler skipped 1 MSD & used it for a rinse vial. Therefore headers were changed accordingly & the MSD run was

Analyst Signature [signature] Date 5/15/90

VERSAR, INC.
GCMS INSTRUMENT ID I
DATE 5-15-90

INJECTION LOG

T051590 _.91/MSQ free sectors 29,755.

Filename	ASCII Filename	Streamer ID	Method	Case	SDG	Field Sample ID	Level	Matrix	Versar Sample No.	Fraction	Type	Project	Batch	Ext. Vol.	Comb. Vol.	Final Vol.	Dil.	IS Vol.	IS No.	B Factor
T2582		221				DFTPP 50ng			22486	Tuned @ 9:12										
T2583	A.91 MSQ	221	CLP			SSTD50	-	-	22456	B	CC-50		Ran TCL TB.							
T2584		221	CLP	VERS COM	254A	SW-1	L	W	16693	B	-	420.1	3	1ml	3ml	6ml		6µl	2070	
T2585		221	CLP			SW-2	L	W	16694	B	-									
T2586		221	CLP			TB-1A	L	W	16695	B	-									
T2587		221	CLP			TB-3A	L	W	16696	B	-									
T2588		221	CLP			TB-4A	L	W	16697	B	-									
T2589		221	CLP			TB-5A	L	W	16698	B	-									
T2590		221	CLP		254	SBLK92	M	S	RB7982	B	-	420.0	2	1ml	.4ml	.4ml		4µl		
T2591		221	CLP			1			16419	B	-									
T2592		221	CLP			1 MS			16419 MS	B	-									
T2593		221	CLP			1 MSD			16419 MSD	B	-									
T2594		221	CLP			6			16423	B	-									
T2595		221	CLP			5			16422	B	-									
				INJECTION PORT MAINTENANCE, changed Ferrules & Septum, cut off ~20cm column.																
T2595		221				DFTPP 50ng			22486											

Analyst Signature [signature] Date 5/15/90

ORIGINAL (Red)

000565

000030

VERSAR, INC
GCMS INSTRUMENT ID T
DATE 5-14-90

INJECTION LOG

T051490_.91/MSQ

Filename	ASCII Filename	Streamer ID	Method	Case	SDG	Field Sample ID	Level	Matrix	Versar Sample No.	Fraction	Type	Project	Batch	Ext. Vol.	Comb. Vol.	Final Vol.	Dil.	IS Vol.	IS No.	B Factor
T2566		220				DFTPP 50ng			22486											
T2567		220				DFTPP 50ng			22486											
T2568	MSQ	220				DFTPP 50ng			22486			MET	@ 1723							
T2569	T051490A.91	220	CLP			SSTD50			22658	B	IC 50	RAN	TCALIB							
T2570		220	CLP			SSTD160			22659	B	IC 160									
T2571		220	CLP			SSTD120			22660	B	IC 120									
T2572		220	CLP			SSTD80			22661	B	IC 80									
T2573		220	CLP			SSTD20			22662	B	IC 20									
T2574	MSQ B	220	CLP	VERSCDM	2548	SBLK51	L	W	RB7951	B	BLK	420.1	3	1mL	.2mL	.4mL		4µL	22078	
T2575		220	CLP			MW-38	L	W	166688	B	-									
T2576		220	CLP			MW-38 MS	L	W	166688ms	B	-									
T2577		220	CLP			MW-38 MSD	L	W	166688msd	B	-									
T2578		220	CLP			MW-43	L	W	166689	B	-									
T2579		220	CLP			MW-53	L	W	166690	B	-									
T2580		220	CLP			MW-79	L	W	166691	B	-									
T2581		220	CLP			MW-79A	L	W	166692	B	-									

Analyst Signature Terri D Schaffer Date 5/14/90

00566

(SAR, INC.
IS INSTRUMENT ID T
E 05-16-90

INJECTION LOG

Filename	ASCII Filename	Streamer ID	Method	Case	SDG	Field Sample ID	Level	Matrix	Versar Sample No.	Fraction	Type	Project	Batch	Ext. Vol.	Comb. Vol.	Final Vol.	Dil.	IS Vol.	IS No.	B Factor
2623		222				DETPP 50mg			22486				MET @ 1644							
2624	A.91 ✓	222	CLP			SSTD 50			22658	B	IC 50		RAN	TCALIB						
2625	↓ ✓	222	CLP			SSTD 160			22659	B	IC 160									
2626	✓	222	CLP			SSTD 120			22739	B	IC 120									
2627	✓	222	CLP			SSTD 80			22661	B	IC 80									
2628	↓ ✓	222	CLP			SSTD 20			22662	B	IC 20									
2629	B ✓	222	CLP	VERS CDM	2565	11	M	S	16913	B	-	420.1	4	1mL	.4mL	.4mL		4µL	22078	
2630	✓	222	CLP	VERS CDM	2536	SBLK 66	L	S	RB7966	B	BLK	↓	2	↓	↓	↓		↓	↓	
2631	✓	222	CLP	↓	↓	2	L	S	16413	B	-	↓	↓	↓	↓	↓		↓	↓	
2632	✓	222	CLP	↓	↓	3	L	S	16414	B	-	↓	↓	↓	↓	↓		↓	↓	
2633	✓	222	CLP	↓	↓	7	L	S	16424	B	-	↓	↓	↓	↓	↓		↓	↓	
2634	✓	222	CLP	↓	↓	GPC BLK	L	S	GPC BLK	B	-	↓	↓	↓	↓	↓		↓	↓	
2635	✓	222	CLP	ENGI HALL	2459	SBLK 59	L	S	RB8059	B	BLK	420.52	3	1mL	.4mL	.8mL		8µL	↓	
2636	✓	222	CLP	↓	↓	GW-1-SIRE	L	S	14702 RE	B	-	↓	↓	↓	↓	↓		↓	↓	
2637	↓ ✓	222	CLP	VERS CDM	2536	MSTD 3049	L	S	MSTD 3049	B	-	420.1	2	1mL	.4mL	.4mL		4µL	22078	

ORIGINAL (Red)

Analyst Signature Jeri D Schaffer Date 5/16/90

000033

SAR, INC.
IS INSTRUMENT ID I
E 5-17-90

INJECTION LOG

T051790_.91/MSQ

free sectors = 19, 9/14

lename	ASCII Filename	Streamer ID	Method	Case	SDG	Field Sample ID	Level	Matrix	Versar Sample No.	Fraction	Type	Project	Batch	Ext. Vol.	Comb. Vol.	Final Vol.	Dil.	IS Vol.	IS No.	B Factor
mj.	port	maint. (changed ferrules & septum - cut off ≈ 20 cm of column)																		
638		222	CLP			DFTPP 50ng			22486											
639		222	CLP			DFTPP 50ng			22486											
640		222	CLP			DFTPP 50ng			22486			Tuned @ 9:23.								
2641		222	CLP			SSTD 50	-	-	22658	B	CC-50		Ran TCA LIB.							
2642		222	CLP	PN54	2554	SBLK65	L	S	RB7965	B	BK	420 60.0	1	1ml	.4ml	.4ml		4µl	2000	
643		222	CLP			5-BH-2-SS-0-2	L	S	16830	B	-			1ml	.4ml	.4ml		4µl	2278	
644		222	CLP			5-BH-2-SS-0-2 MS	L	S	16830 MS	B	-			1ml	.4ml	.4ml		4µl		
645		222	CLP			5-BH-2-SS-0-2 MSD	L	S	16830 MSD	B	-			.5ml	.4ml	.4ml		4µl		
646		222	CLP			5-BH-4-SS-0-2	L	S	16831	B	-			1ml	.4ml	.4ml		4µl		
647	RESET	222	CLP			5-BH-4-SS-0-2	L	S	16832	B	-			1ml	.4ml	.4ml		4µl		
648		222	CLP	PN54	2554	5-BH-1-SS-0-2-1	M	S	16833	B	-			1ml	.4ml	.4ml		4µl		
649		222	CLP			5-BH-1-SS-0-2-1 MS	M	S	16833 MS	B	-			1ml	.4ml	.4ml		4µl		
650		222	CLP			5-BH-1-SS-0-2-1 MSD	M	S	16833 MSD	B	-			1ml	.4ml	.4ml		4µl		
651		222	CLP			SBLK84	M	S	RB7984	B	-			1ml	.4ml	.4ml		4µl		
652		222	CLP			5-BH-1-SS-0-2-2	M	S	16834	B	-			1ml	.4ml	.4ml		4µl		
2653		222	CLP			5-BH-4-SS-0-2	L	S	16832	B	-									

Analyst Signature Terri P. Schaffer Date 5/17/90

ORIGINAL TRAID

000034

000568

Office Enforcement

REGION 3
Curtis Bldg., 6th Walnut Sts.
Philadelphia, Pen. .vania 19106

CHAIN OF CUST Y RECORD

PROJ. NO.	PROJECT NAME
R3-7	R3-7

SAMPLERS: (Signature) Sharon E. Schaffer Laurie B Wyl

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCLP VOA	TCLP BNA/Metals	VOA	BNA	Pest./PCB		REMARKS
													Tag #'S.
1	4/18/90	1000		X	Location 1 (Sludge)	10	2	2	2	1/2	1/2		3-10683 52, 53, 54, 55, 56, 57, 58, 60
					~~Location 2~~ SES 4/18/90					SES 4/18/90	SES 4/18/90		
					~~Location 3~~ SES 4/18/90								
					~~Location 5~~ SES 4/18/90								
					~~Location 6~~ SES 4/18/90								

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Sharon E. Schaffer	4/18/90 2000				
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
		J. L. Monaco	4/19/90 0900	Shipped via Federal Express Airbill # 2294123705

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ORIGINAL

0069

3-18549

ENVIRONMENTAL PROTECTION AGENCY
Office nforcement

REGION 3
Curtis Bldg., 6th alnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME
R3-7	R3-7

SAMPLERS: (Signature) Sharon E. Schaeffer Laurie B Wyl

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TAL Metals	Cyanide					REMARKS Tag #'s.
1	4/18/90	1000		X	Location 1 (Sludge)	2	1	1					3-1068341, 62.

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Sharon E Schaeffer	4/18/90 2000				
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) J. R. Monson	4/19/90	Date / Time 0900	Remarks Shipped via Federal Express Airbill # 2294123705

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ORIGINAL (W)

111

..ONMENTA' PROTECTION AGENCY
Office nforcement

REGION 3
Curtis Bldg., 6th alnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJ. NO.: R3-7
PROJECT NAME: R3-7
SAMPLERS: (Signature) Sharon E. Schaffer . Laurie B. Wyl

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	VOA	BNA	PCB/Pest.	TAL Metals	Cyanide		REMARKS Tag #'s
2	4/18/90	1135		X	Location 2	6	2	1	1	1	1		3-10683 59, 63, 64, 65, 66, 67
3	4/18/90	1145		X	Location 3	6	2	1	1	1	1		3-10683 68, 69, 70, 71, 72, 73
5	4/18/90	1430		X	Location 5	6	2	1	1	1	1		3-10683 74, 75, 76, 77, 78, 79
6	4/18/90	1455		X	Location 6	10	2	1	1	1	1		3-10683 80, 81, 82, 83, 84, 85, 86, 87, 88, 89
7	4/18/90	1505		X	Location 7	10	2	1	1	1	1		3-10683 90, 91, 92, 93, 94, 95, 96, 97, 98, 99

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Sharon E. Schaffer	4/18/90 2000				
Relinquished by: (Signature)	Date / Time	Received by: (Signature) J. L. Morrison	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) J. L. Morrison	Date / Time 4/19/90 0900	Remarks Shipped via Federal Express Airbill # 4026936093	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Quantitation Report File: T2637

ORIGINAL
(Red)

Data: T2637.TI
05/17/90 5:25:00
Sample: CLP,VERSCDM,2536,MSTD3049,L,S,MSTD3049,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL PHENYLETHER

BNA portion wasn't to be viated

Not Valid.

See prep info.

100572

T2637

ORIGINAL
(Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
1	152	535	8:55	1	1.000	A BB	33365.	40.000	NG/UL	9.11
2	128	507	8:27	1	0.948	A BB	22071.	19.181	NG.	4.37
3	94	490	8:10	1	0.916	A BB	25540.	14.801	NG.	3.37
4	NOT FOUND									
5	146	537	8:57	1	1.004	A BB	13951.	11.387	NG	2.59
6	146	537	8:57	1	1.004	A BB	13951.	10.672	NG.	2.43
7	NOT FOUND									
8	NOT FOUND									
9	NOT FOUND									
10	NOT FOUND									
11	NOT FOUND									
12	NOT FOUND									
13	70	613	10:13	1	1.146	A BB	12639.	10.743	NG.	2.45
14	112	355	5:55	1	0.664	A BB	5571.	5.323	NG*A1	1.21
15	99	488	8:08	1	0.912	A BB	10718.	7.110	NG*A2	1.62
16	136	754	12:34	16	1.000	A BB	102691.	40.000	NG/UL	9.11
17	NOT FOUND									
18	NOT FOUND									
19	NOT FOUND									
20	NOT FOUND									
21	NOT FOUND									
22	NOT FOUND									
23	180	747	12:27	16	0.991	A BB	10662.	10.729	NG.	2.44
24	NOT FOUND									
25	NOT FOUND									
26	NOT FOUND									
27	NOT FOUND									
28	107	867	14:27	16	1.150	A BB	28404.	22.689	NG.	5.17
29	NOT FOUND									
30	82	634	10:34	16	0.841	A BB	8464.	4.992	NG*B1	1.14
31	164	1087	18:07	31	1.000	A BB	68213.	40.000	NG/UL	9.11
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	153	1092	18:12	31	1.005	A BB	24517.	11.317	NG.	2.58
41	NOT FOUND									
42	NOT FOUND									
43	NOT FOUND									
44	109	1123	18:43	31	1.033	A BB	5575.	7.598	NG.	1.73
45	165	1137	18:57	31	1.046	A BB	11667.	13.286	NG.	3.02
46	NOT FOUND									
47	NOT FOUND									
48	NOT FOUND									
49	NOT FOUND									
50	NOT FOUND									

T2637 ORIGINAL (Red)

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:27	1.00	0.949	1.00	19.18	50.00	0.529	1.379	0.38
3	8:10	1.00	0.918	1.00	14.80	50.00	0.612	2.069	0.30
4	8:23		0.942						
5	8:48	1.02	0.989	1.02	11.39	50.00	0.335	1.469	0.23
6	8:57	1.00	1.006	1.00	10.67	50.00	0.335	1.567	0.21
7	9:27		1.062						
8	9:23		1.054						
9	9:49		1.103						
10	9:45		1.096						
11	10:16		1.154						
12	10:10		1.142						
13	10:14	1.00	1.150	1.00	10.74	50.00	0.303	1.410	0.21
14	5:54	1.00	0.663	1.00	5.32	50.00	0.134	1.255	0.11
15	8:08	1.00	0.914	1.00	7.11	50.00	0.257	1.807	0.14
16	12:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:37		0.845						
18	11:16		0.897						
19	11:32		0.918						
20	11:41		0.930						
21	12:01		0.956						
22	12:12		0.971						
23	12:27	1.00	0.991	1.00	10.73	50.00	0.083	0.387	0.21
24	12:38		1.005						
25	12:02		0.958						
26	12:56		1.029						
27	13:10		1.048						
28	14:26	1.00	1.149	1.00	22.69	50.00	0.221	0.488	0.45
29	14:45		1.174						
30	10:34	1.00	0.841	1.00	4.99	50.00	0.066	0.660	0.10
31	18:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:27		0.854						
33	15:45		0.870						
34	15:51		0.876						
35	16:17		0.900						
36	16:48		0.928						
37	17:37		0.973						
38	17:31		0.968						
39	17:45		0.981						
40	18:13	1.00	1.006	1.00	11.32	50.00	0.288	1.270	0.23
41	18:09		1.003						
42	18:28		1.020						
43	18:43		1.034						
44	18:43	1.00	1.034	1.00	7.60	50.00	0.065	0.430	0.15
45	18:58	1.00	1.048	1.00	13.29	50.00	0.137	0.515	0.27
46	19:49		1.095						
47	19:52		1.098						
48	19:47		1.093						
49	20:09		1.113						
50	20:14		1.118						

ORIGINAL (Red)

Quantitation Report File: T2637

Data: T2637.TI
05/17/90 5:25:00
Sample: CLP,VERSCDM,2536,MSTD3049,L,S,MSTD3049,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	NOT FOUND								
52	NOT FOUND								
53	NOT FOUND								
54	172	961	16:01	31	0.884	A BB	12402.	5.468 NG*B2	1.25
55	188	1369	22:49	55	1.000	A BB	149974.	40.000 NG/UL	9.11
56	266	1346	22:26	55	0.983	A BB	11302.	13.965 NG.	3.18
57	NOT FOUND								
58	NOT FOUND								
59	149	1500	25:00	55	1.096	A BB	1153.	BRL ~~0.214 NG~~	0.05
60	NOT FOUND								
61	202	1649	27:29	63	0.874	A BB	73628.	12.536 NG.	2.85
62	330	1240	20:40	31	1.141	A BB	8186.	10.891 NG*A3	2.48
63	240	1886	31:26	63	1.000	A BB	190967.	40.000 NG/UL	9.11
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								

T2637 ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount		%Tot
67	NOT FOUND									
68	149	1903	31:43	63	1.009	A BB	347.	BRL ~~0.087~~	~~NG~~	0.02
69	244	1685	28:05	63	0.893	A BB	28259.	6.259	NG*B3	1.43
70	264	2185	36:25	70	1.000	A BB	182433.	40.000	NG/UL	9.11
71	NOT FOUND									
72	NOT FOUND									
73	NOT FOUND									
74	NOT FOUND									
75	NOT FOUND									
76	NOT FOUND									
77	NOT FOUND									

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:19		1.122						
52	21:26		1.184						
53	21:50		1.206						
54	16:01	1.00	0.885	1.00	5.47	50.00	0.145	1.330	0.11
55	22:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:27	1.00	0.983	1.00	13.97	50.00	0.060	0.216	0.28
57	22:54		1.003						
58	23:03		1.009						
59	25:01	1.00	1.096	1.00	0.21	50.00	0.006	1.439	0.00
60	26:47		1.173						
61	27:30	1.00	0.874	1.00	12.54	50.00	0.308	1.230	0.25
62	20:40	1.00	1.142	1.00	10.89	50.00	0.096	0.441	0.22
63	31:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:53		0.950						
65	31:24		0.998						
66	31:32		1.003						
67	31:26		0.999						
68	31:44	1.00	1.009	1.00	0.09	50.00	0.001	0.838	0.00
69	28:06	1.00	0.893	1.00	6.26	50.00	0.118	0.946	0.13
70	36:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:33		0.921						
72	34:53		0.957						
73	34:58		0.960						
74	36:11		0.993						
75	42:13		1.159						
76	42:24		1.164						
77	44:00		1.208						

ORIGINAL (Red)

Gu titation Report File: QCREF

Da T2637.TI
05 '/90 5:25:00
Sa e: CLP,VERSCDM,2536,MSTD3049,L,S,MSTD3049,B,,420.1 B#2,1UL,
Co .: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Fo la: --- Instrument: T Weight: 0.003
Su tted by: VERSAR Analyst: TS Acct. No.: 420.1

AMI T=AREA * REF AMNT/(REF AREA * RESP FACT)
Re fac. from Library Entry

Nc	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

Scan	Time	Area(Hght)	Amount	Name
535	8:55	33365.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
754	12:34	102691.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1087	18:07	68213.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1369	22:49	149974.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1886	31:26	190967.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2185	36:25	182433.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
355	5:55	5571.	5.323 NG*A1	CS50 2-FLUOROPHENOL**ACID SU
488	8:08	10718.	7.110 NG*A2	CS45 PHENOL-D5**ACID SURR.**
1240	20:40	8186.	10.891 NG*A3	CS55 2,4,6,-TRIBROMOPHENOL**
634	10:34	8464.	4.992 NG*B1	CS20 NITROBENZENE-D5**BN SUR
961	16:01	12402.	5.468 NG*B2	CS25 2-FLUOROBIPHENYL**BN SU
1685	28:05	28259.	6.259 NG*B3	CS30 P-TERPHENYL-D14**BN SUR

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	31:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	36:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	5:54	1.00	0.663	1.00	5.32	50.00	0.134	1.255	0.11
8	8:08	1.00	0.914	1.00	7.11	50.00	0.257	1.807	0.14
9	20:40	1.00	1.142	1.00	10.89	50.00	0.096	0.441	0.22
10	10:34	1.00	0.841	1.00	4.99	50.00	0.066	0.660	0.10
11	16:01	1.00	0.885	1.00	5.47	50.00	0.145	1.330	0.11
12	28:06	1.00	0.893	1.00	6.26	50.00	0.118	0.946	0.13

ORIGINAL (Red)

Quantitation Report File: ISREF

Data: T2624.TI
05/16/90 17:01:00
Sample: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ____

Data: T2637.TI
05/17/90 5:25:00
Sample: CLP,VERSCDM,2536,MSTD3049,L,S,MSTD3049,B,,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD. #2**
4	CI40 NAPHTHALENE-D8**INT. STD. #2**
5	CI50 ACENAPHTHENE-D10**INT. STD. #3**
6	CI50 ACENAPHTHENE-D10**INT. STD. #3**
7	CI60 PHENANTHRENE-D10**INT. STD. #4**
8	CI60 PHENANTHRENE-D10**INT. STD. #4**
9	CI70 CHRYSENE-D12**INT. STD. #5**
10	CI70 CHRYSENE-D12**INT. STD. #5**
11	CI75 PERYLENE-D12**INT. STD. #6**
12	CI75 PERYLENE-D12**INT. STD. #6**

Scan	Time	Area(Hght)	Amount	Name
534	8:54	21230.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
535	8:55	33365.	62.864 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
754	12:34	67127.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
754	12:34	102691.	61.192 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1086	18:06	45485.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1087	18:07	68213.	59.987 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1370	22:50	109533.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1369	22:49	149974.	54.768 NG/UL	CI60 PHENANTHRENE-D10**INT.
1887	31:27	129519.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
1886	31:26	190967.	58.977 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2186	36:26	121131.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
2185	36:25	182433.	60.243 NG/UL	CI75 PERYLENE-D12**INT. STD.

ORIGINAL (Red)

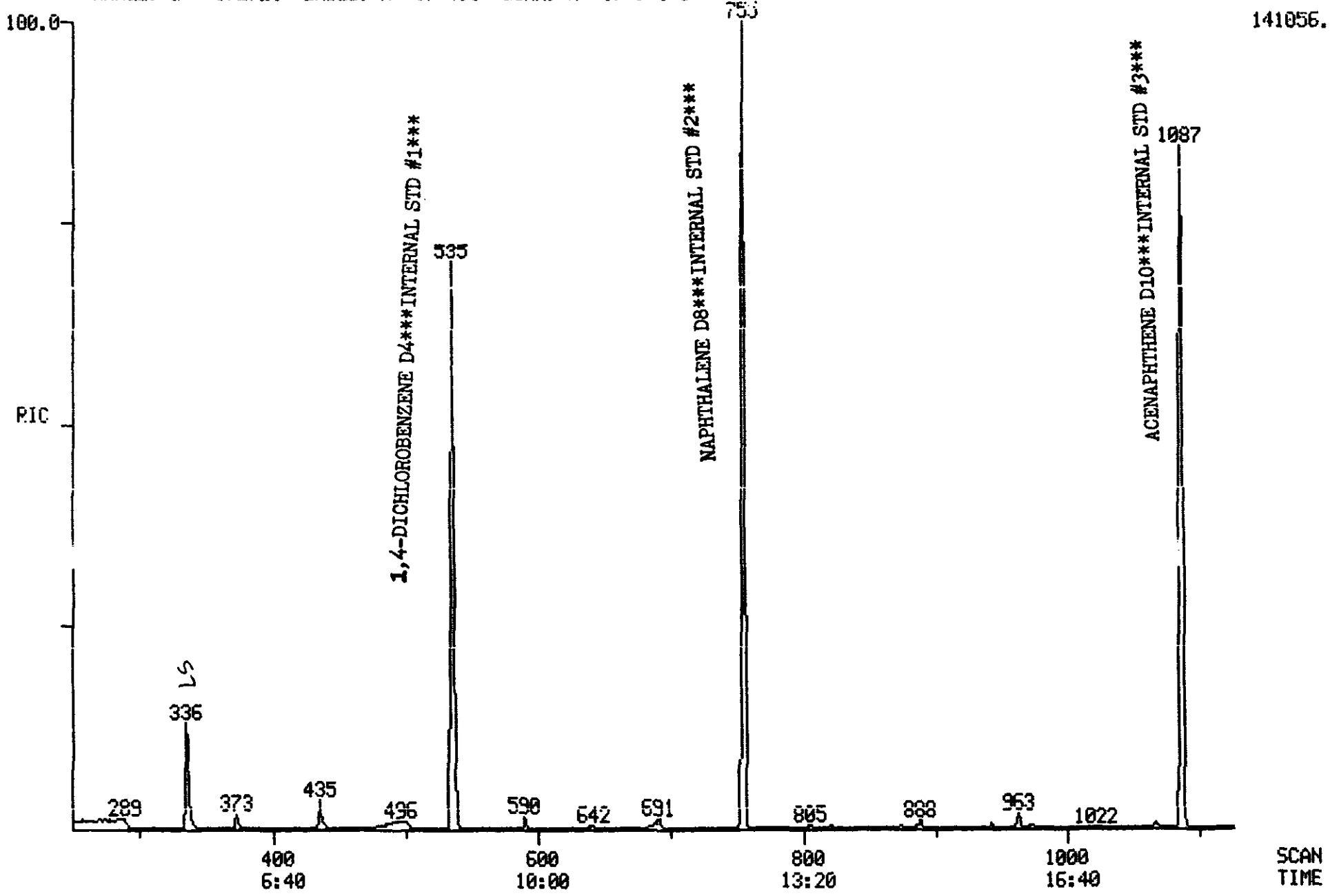
100579

RIC
05/17/90 2:48:00

DATA: T2634 #1
CALI: T2634 #2

SCANS 250 TO 1125

SAMPLE: CLP,VERSCOM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 2



ORIGINAL (Red)

RIC DATA: T2634 #1 SCANS 1125 TO 2720
05/17/90 2:48:00 CALI: T2634 #2
SAMPLE: CLP,VERSCOM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 E#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
RANGE: G 1,2720 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

100.0 173568.

RIC

1370 PHENANTHRENE D10***INTERNAL STD #4***

1888 CHRYSENE D12***INTERNAL STD#5***

2187 PERYLENE D12***INTERNAL STD#6***

LS 2041

1183 1280 1502 1621 1773 1968 2281 2459 2559

1200 20:00 | 1400 23:20 | 1600 26:40 | 1800 30:00 | 2000 33:20 | 2200 36:40 | 2400 40:00 | 2600 43:20 | SCAN TIME

100580

Quantitation Report File: T2634

ORIGINAL (Red)

Data: T2634.TI
05/17/90 2:48:00
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	C330 2-CHLOROPHENOL
3	C315 PHENOL
4	C325 BIS (2-CHLOROETHYL) ETHER
5	C335 1,3-DICHLOROBENZENE
6	C340 1,4-DICHLOROBENZENE
7	C350 1,2-DICHLOROBENZENE
8	C345 BENZYL ALCOHOL
9	C360 BIS (2-CHLOROISOPROPYL) ETHER
10	C355 2-METHYLPHENOL
11	C375 HEXACHLOROETHANE
12	C365 4-METHYLPHENOL
13	C370 N-NITROSO-DI-N-PROPYLAMINE
14	CS50 2-FLUOROPHENOL**ACID SURR.**
15	CS45 PHENOL-D5**ACID SURR.**
16	CI40 NAPHTHALENE-D8**INT. STD.#2**
17	C410 NITROBENZENE
18	C415 ISOPHORONE
19	C420 2-NITROPHENOL
20	C425 2,4-DIMETHYLPHENOL
21	C435 BIS (2-CHLOROETHOXY) METHANE
22	C440 2,4-DICHLOROPHENOL
23	C445 1,2,4-TRICHLOROBENZENE
24	C450 NAPHTHALENE
25	C430 BENZOIC ACID
26	C455 4-CHLOROANILINE
27	C460 HEXACHLOROBUTADIENE
28	C465 4-CHLORO-3-METHYLPHENOL
29	C470 2-METHYLNAPHTHALENE
30	CS20 NITROBENZENE-D5**BN SURR.**
31	CI50 ACENAPHTHENE-D10**INT. STD.#3**
32	C510 HEXACHLOROCYCLOPENTADIENE
33	C515 2,4,6-TRICHLOROPHENOL
34	C520 2,4,5-TRICHLOROPHENOL
35	C525 2-CHLORONAPHTHALENE
36	C530 2-NITROANILINE
37	C540 ACENAPHTHYLENE
38	C535 DIMETHYL PHTHALATE
39	C544 2,6-DINITROTOLUENE
40	C550 ACENAPHTHENE
41	C545 3-NITROANILINE
42	C555 2,4-DINITROPHENOL
43	C565 DIBENZOFURAN
44	C560 4-NITROPHENOL
45	C570 2,4-DINITROTOLUENE
46	C590 FLUORENE
47	C585 4-CHLOROPHENYL-PHENYLETHER

Ready for forms

T2634

ORIGINAL (Red)

No	Name
48	C580 DIETHYLPHTHALATE
49	C595 4-NITROANILINE
50	C610 4,6-DINITRO-2-METHYLPHENOL

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	535	8:55	1	1.000	A BB	30719.	40.000 NG/UL	16.64
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
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	136	755	12:35	16	1.000	A BB	96310.	40.000 NG/UL	16.64
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	164	1087	18:07	31	1.000	A BB	64224.	40.000 NG/UL	16.64
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								

T263A

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R. Fac	R. Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	8:27		0.949						
3	8:10		0.918						
4	8:23		0.942						
5	8:48		0.989						
6	8:57		1.006						
7	9:27		1.062						
8	9:23		1.054						
9	9:49		1.103						
10	9:45		1.096						
11	10:16		1.154						
12	10:10		1.142						
13	10:14		1.150						
14	5:54		0.663						
15	8:08		0.914						
16	12:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
17	10:37		0.845						
18	11:16		0.897						
19	11:32		0.918						
20	11:41		0.930						
21	12:01		0.956						
22	12:12		0.971						
23	12:27		0.991						
24	12:38		1.005						
25	12:02		0.958						
26	12:56		1.029						
27	13:10		1.048						
28	14:26		1.149						
29	14:45		1.174						
30	10:34		0.841						
31	18:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
32	15:27		0.854						
33	15:45		0.870						
34	15:51		0.876						
35	16:17		0.900						
36	16:48		0.928						
37	17:37		0.973						
38	17:31		0.968						
39	17:45		0.981						
40	18:13		1.006						
41	18:09		1.003						
42	18:28		1.020						
43	18:43		1.034						
44	18:43		1.034						
45	18:58		1.048						
46	19:49		1.095						
47	19:52		1.098						
48	19:47		1.093						
49	20:09		1.113						
50	20:14		1.118						

Quantitation Report File: T2634

ORIGINAL (Red)

Data: T2634.TI
05/17/90 2:48:00
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
51	C615 N-NITROSODIPHENYLAMINE
52	C625 4-BROMOPHENYL-PHENYLETHER
53	C630 HEXACHLOROBENZENE
54	CS25 2-FLUOROBIPHENYL**BN SURR.**
55	CI60 PHENANTHRENE-D10**INT. STD.#4**
56	C635 PENTACHLOROPHENOL
57	C640 PHENANTHRENE
58	C645 ANTHRACENE
59	C650 DI-N-BUTYLPHTHALATE
60	C655 FLUORANTHENE
61	C715 PYRENE
62	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
63	CI70 CHRYSENE-D12**INT. STD.#5**
64	C720 BUTYLBENZYLPHTHALATE
65	C730 BENZO(A)ANTHRACENE
66	C740 CHRYSENE
67	C725 3,3'-DICHLOROBENZIDINE
68	C741 BIS(2-ETHYLHEXYL)PHTHALATE
69	CS30 P-TERPHENYL-D14**BN SURR.**
70	CI75 PERYLENE-D12**INT. STD.#6**
71	C760 DI-N-OCTYL PHTHALATE
72	C765 BENZO(B)FLUORANTHENE
73	C770 BENZO(K)FLUORANTHENE
74	C775 BENZO(A)PYRENE
75	C780 INDENO(1,2,3-CD)PYRENE
76	C785 DIBENZ(A,H)ANTHRACENE
77	C790 BENZO(G,H,I)PERYLENE

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)		Amount	%Tot
51	NOT FOUND									
52	NOT FOUND									
53	NOT FOUND									
54	NOT FOUND									
55	188	1370	22:50	55	1.000	A BV	137539.		40.000 NG/UL	16.64
56	NOT FOUND									
57	NOT FOUND									
58	NOT FOUND									
59	149	1502	25:02	55	1.096	A BB	786.	BRL	~~0.159 NG~~	0.07
60	NOT FOUND									
61	NOT FOUND									
62	NOT FOUND									
63	240	1888	31:28	63	1.000	A BB	181644.		40.000 NG/UL	16.64
64	NOT FOUND									
65	228	1887	31:27	63	0.999	A BB	586.	BRL	~~0.127 NG~~	0.05
66	NOT FOUND									

T2634 ORIGINAL (Red)

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
67	NOT FOUND								
68	149	1904	31:44	63	1.003	A BB	458. BRL	~~0.120 NG~~	0.05
69	NOT FOUND								
70	264	2187	36:27	70	1.000	A BB	178794.	40.000 NG/UL	16.61
71	149	2014	33:34	70	0.921	A BB	433. BRL	~~0.067 NG~~	0.03
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								
76	NOT FOUND								
77	NOT FOUND								

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
51	20:19		1.122						
52	21:26		1.184						
53	21:50		1.206						
54	16:01		0.885						
55	22:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
56	22:27		0.983						
57	22:54		1.003						
58	23:03		1.009						
59	25:01	1.00	1.096	1.00	0.16	50.00	0.005	1.439	0.00
60	26:47		1.173						
61	27:30		0.874						
62	20:40		1.142						
63	31:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
64	29:53		0.950						
65	31:24	1.00	0.998	1.00	0.13	50.00	0.003	1.020	0.00
66	31:32		1.003						
67	31:26		0.999						
68	31:44	1.00	1.009	1.00	0.12	50.00	0.002	0.838	0.00
69	28:06		0.893						
70	36:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
71	33:33	1.00	0.921	1.00	0.07	50.00	0.002	1.437	0.00
72	34:53		0.957						
73	34:58		0.960						
74	36:11		0.993						
75	42:13		1.159						
76	42:24		1.164						
77	44:00		1.208						

Quantitation Report File: QCREF

ORIGINAL (Red)

Data: T2634.TI
05/17/90 2:48:00
Sample: CLP,VERSCDM,2536,CPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI40 NAPHTHALENE-D8**INT. STD.#2**
3	CI50 ACENAPHTHENE-D10**INT. STD.#3**
4	CI60 PHENANTHRENE-D10**INT. STD.#4**
5	CI70 CHRYSENE-D12**INT. STD.#5**
6	CI75 PERYLENE-D12**INT. STD.#6**
7	CS50 2-FLUOROPHENOL**ACID SURR.**
8	CS45 PHENOL-D5**ACID SURR.**
9	CS55 2,4,6,-TRIBROMOPHENOL**ACID SURR.**
10	CS20 NITROBENZENE-D5**BN SURR.**
11	CS25 2-FLUOROBIPHENYL**BN SURR.**
12	CS30 P-TERPHENYL-D14**BN SURR.**

Scan	Time	Area(Hght)	Amount	Name
535	8:55	30719.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
755	12:35	96310.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1087	18:07	64224.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1370	22:50	137539.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1888	31:28	181644.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2187	36:27	178794.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
NOT FOUND				
NOT FOUND				
NOT FOUND				
NOT FOUND				
NOT FOUND				
NOT FOUND				

No	Ret(L)	Ratio	RRT(L)	Ratio	Amnt	Amnt(L)	R.Fac	R.Fac(L)	Ratio
1	8:54	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
2	12:34	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
3	18:06	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
4	22:50	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
5	31:27	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
6	36:26	1.00	1.000	1.00	40.00	40.00	1.000	1.000	1.00
7	5:54		0.663						
8	8:08		0.914						
9	20:40		1.142						
10	10:34		0.841						
11	16:01		0.885						
12	28:06		0.893						

Quantitation Report File: ISREF

Data: T2624.TI
05/16/90 17:01:00
Sample: CLP,,,SSTD50,,,22658,B,CC050,,,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.004
Submitted by: VERSAR Analyst: TS Acct. No.: ____

Data: T2634.TI
05/17/90 2:48:00
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Formula: --- Instrument: T Weight: 0.003
Submitted by: VERSAR Analyst: TS Acct. No.: 420.1

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

No	Name
1	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
2	CI30 1,4-DICHLOROBENZENE-D4 **INT. STD. #1**
3	CI40 NAPHTHALENE-D8**INT. STD. #2**
4	CI40 NAPHTHALENE-D8**INT. STD. #2**
5	CI50 ACENAPHTHENE-D10**INT. STD. #3**
6	CI50 ACENAPHTHENE-D10**INT. STD. #3**
7	CI60 PHENANTHRENE-D10**INT. STD. #4**
8	CI60 PHENANTHRENE-D10**INT. STD. #4**
9	CI70 CHRYSENE-D12**INT. STD. #5**
10	CI70 CHRYSENE-D12**INT. STD. #5**
11	CI75 PERYLENE-D12**INT. STD. #6**
12	CI75 PERYLENE-D12**INT. STD. #6**

Scan	Time	Area(Hght)	Amount	Name
534	8:54	21230.	40.000 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
535	8:55	30719.	57.878 NG/UL	CI30 1,4-DICHLOROBENZENE-D4
754	12:34	67127.	40.000 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
755	12:35	96310.	57.390 NG/UL	CI40 NAPHTHALENE-D8**INT. ST
1086	18:06	45485.	40.000 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1087	18:07	64224.	56.479 NG/UL	CI50 ACENAPHTHENE-D10**INT.
1370	22:50	109533.	40.000 NG/UL	CI60 PHENANTHRENE-D10**INT.
1370	22:50	137539.	50.227 NG/UL	CI60 PHENANTHRENE-D10**INT.
1887	31:27	129519.	40.000 NG/UL	CI70 CHRYSENE-D12**INT. STD.
1888	31:28	181644.	56.098 NG/UL	CI70 CHRYSENE-D12**INT. STD.
2186	36:26	121131.	40.000 NG/UL	CI75 PERYLENE-D12**INT. STD.
2187	36:27	178794.	59.041 NG/UL	CI75 PERYLENE-D12**INT. STD

Library Search Data: T2634 # 336 Base m/z: 41
05/17/90 2:48:00 + 5:36 Cali: T2634 # 2 RIC: 14335.
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNH searched for maximum PURITY
108 matched at least 8 of the 16 largest peaks in the unknown

Rank	In.	Name
1	1076	1-PROPENE, 3,3'-OXYBIS-
2	1111	2-HEXENAL, (E)-
3	2216	2-HEPTENAL, (Z)-
4	11012	4-DODECENE, (E)-
5	11013	5-DODECENE, (E)-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6. H10. O	98	41	761	874	790
2	C6. H10. O	98	41	741	873	817
3	C7. H12. O	112	41	739	894	762
4	C12. H24	168	55	670	744	739
5	C12. H24	168	55	670	745	740

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	—	—	—	—	557-40-4
2	—	—	—	—	6728-26-3
3	—	—	—	—	57266-86-1
4	—	—	—	—	7206-15-7
5	—	—	—	—	7206-16-8

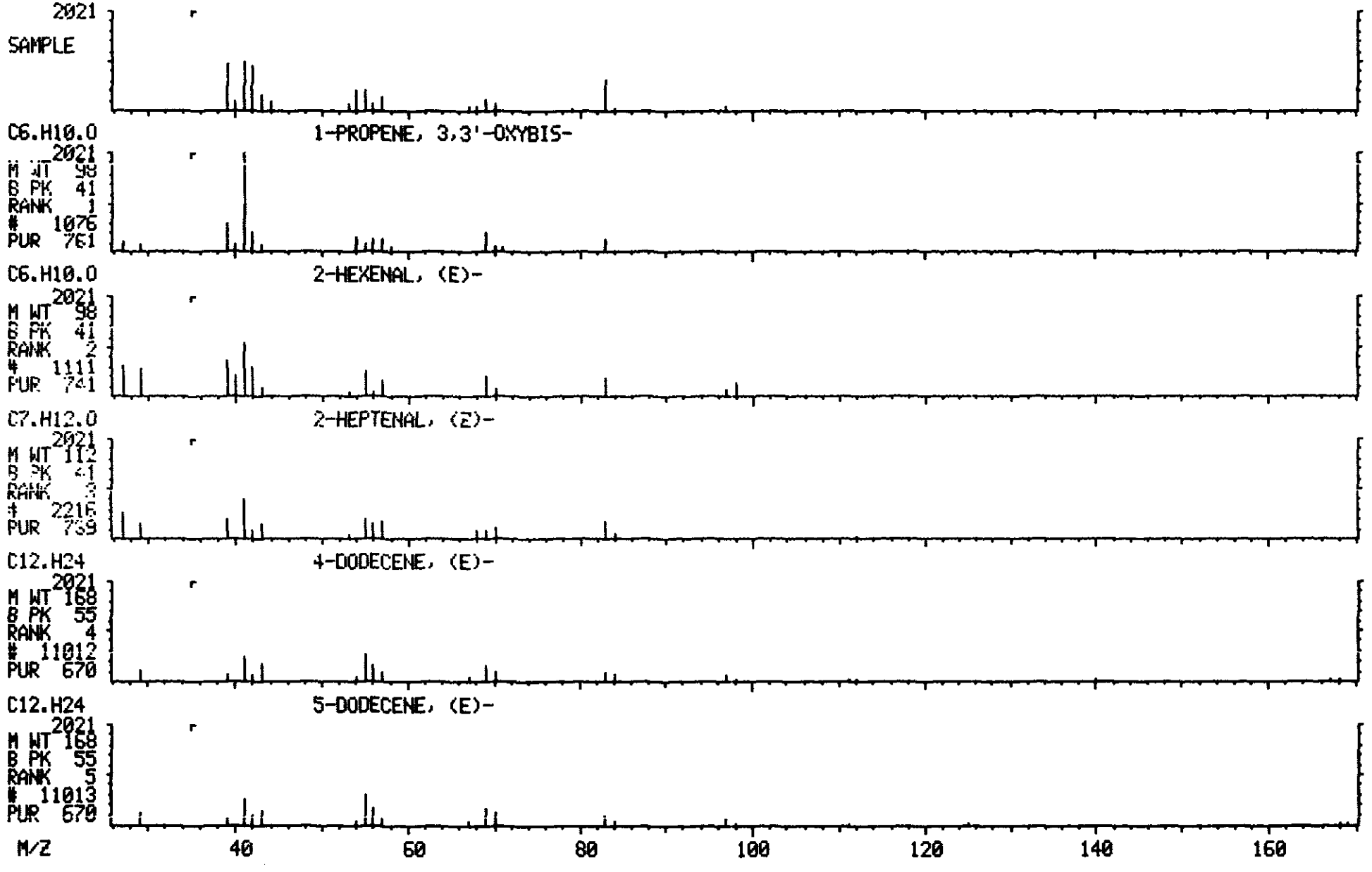
ORIGINAL (Red)

100589

LIBRARY SEARCH
05/17/90 2:48:00 + 5:36
SAMPLE: CLP,VERSCDM,2526,CPC PLANK,L,S,CPC BLK,B,BLK,420.1 B#2,1UL,
CONDS.· INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30200C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2634 # 336
CALI: T2634 # 2

BASE M/Z: 41
RIC: 14335.



Library Search Data: T2634 #2041 Base m/z: 59
05/17/90 2:48:00 + 34:01 Cali: T2634 # 2 RIC: 32735.
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

ORIGINAL (Red)

42223 spectra in LIBRARYNB searched for maximum PURITY
70 matched at least 7 of the 16 largest peaks in the unknown

Rank	In.	Name
1	27222	9-OCTADECENAMIDE, (Z)-
2	2597	PENTANAMIDE, 4-METHYL-
3	1394	PENTANAMIDE
4	11424	CYCLOOCTANEMETHANOL, .ALPHA.,.ALPHA.-DIMETHYL-
5	11398	4-HEXEN-1-OL, 5-METHYL-2-(1-METHYLETHENYL)-, MONOEPOXIDE

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C18.H35.O.N	281	59	529	848	611
2	C6.H13.O.N	115	59	472	896	480
3	C5.H11.O.N	101	59	427	827	448
4	C11.H22.O	170	59	426	865	447
5	C10.H18.O2	170	59	414	844	457

Rank	Ret. Time	B.P. Int.	US.Par.1	US.Par.2	C.A.S. #
1	—	—	—	—	301-02-0
2	—	—	—	—	1119-29-5
3	—	—	—	—	626-97-1
4	—	—	—	—	16624-06-9
5	—	—	—	—	72509-75-2

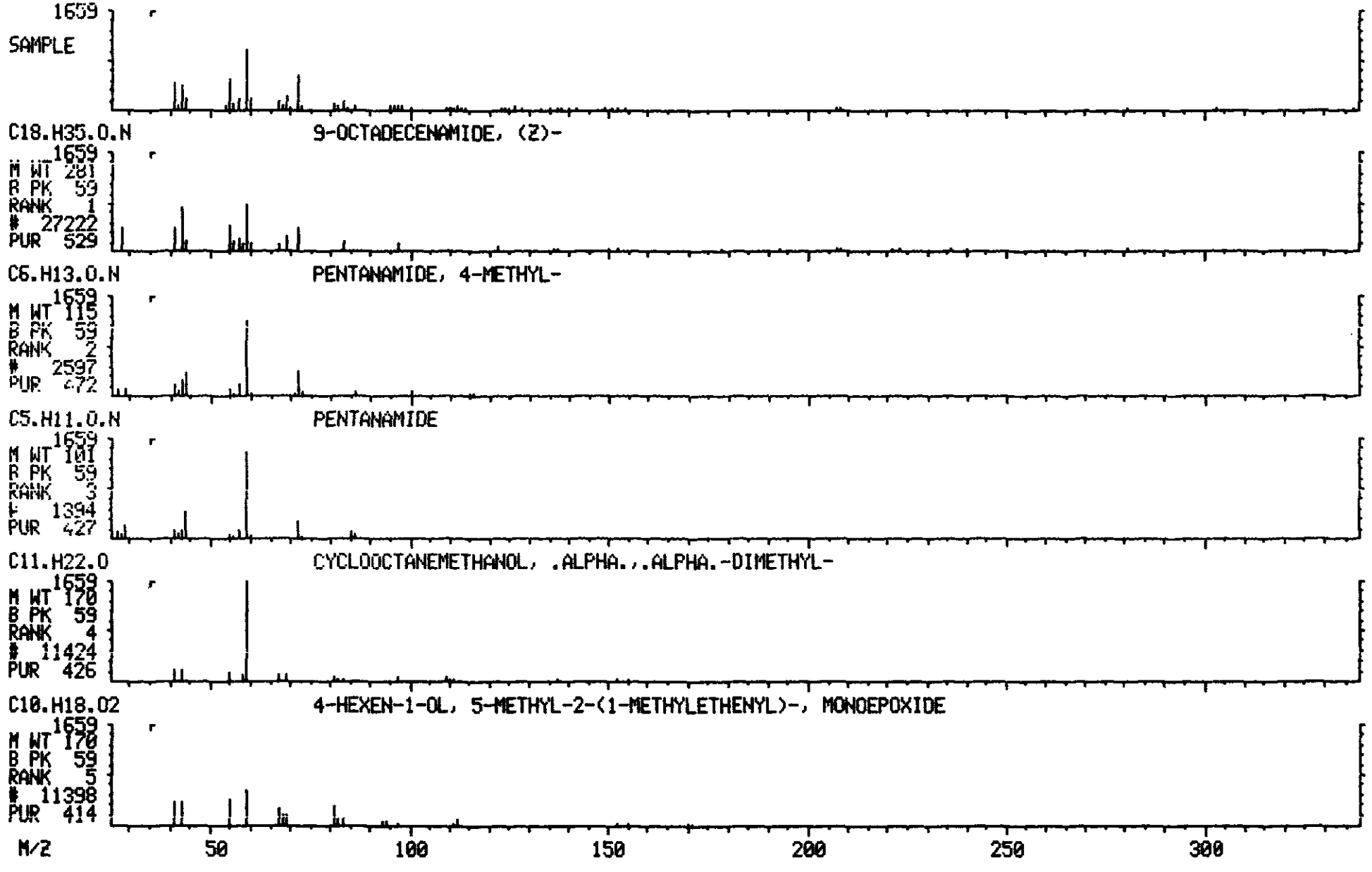
ORIGINAL (Red)

100591

LIBRARY SEARCH
05/17/90 2:48:00 + 34:01
SAMPLE: CLP,VERSCDM,2556,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
CONDS.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 30@8C/MIN
ENHANCED (S 15B 2N 0T)

DATA: T2634 #2041
CALI: T2634 # 2

BASE M/Z: 59
RIC: 32735.



```
        >>>>INTERNAL STANDARD RIC REPORT<<<<
*************************INTERNAL STANDARD#1*****************RIC
Mass List                        Data: T2634 # 535          Base m/z:   150
05/17/90  2:48:00 +  8:55        Cali: T2634 #   2          RIC:      89600.
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     35        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
*************************INTERNAL STANDARD#2*****************RIC
Mass List                        Data: T2634 # 755          Base m/z:   136
05/17/90  2:48:00 + 12:35        Cali: T2634 #   2          RIC:     120448.
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
*************************INTERNAL STANDARD#3*****************RIC
Mass List                        Data: T2634 #1087          Base m/z:   164
05/17/90  2:48:00 + 18:07        Cali: T2634 #   2          RIC:     105600.
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
*************************INTERNAL STANDARD#4*****************RIC
Mass List                        Data: T2634 #1370          Base m/z:   188
05/17/90  2:48:00 + 22:50        Cali: T2634 #   2          RIC:     134656.
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     38        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
*************************INTERNAL STANDARD#5*****************RIC
Mass List                        Data: T2634 #1888          Base m/z:   240
05/17/90  2:48:00 + 31:28        Cali: T2634 #   2          RIC:     159744.
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
*************************INTERNAL STANDARD#6*****************RIC
Mass List                        Data: T2634 #2187          Base m/z:   264
05/17/90  2:48:00 + 36:27        Cali: T2634 #   2          RIC:     103680.
Sample: CLP,VERSCDM,2536,GPC BLANK,L,S,GPC BLK,B,BLK,420.1 B#2,1UL,
Conds.: INST T COLUMN=RESTEK 30M RTX-5 4MIN@38C TO 302@8C/MIN
Enhanced (S 15B 2N OT)

     40        0.00    0.00        0. Minima      Min inten:       0.
     30                         #   0  Maxima
     ANALYST: CHECK BASE M/Z AND RIC AMOUNT TO INSURE NO CONTAMINATION
```

ORIGINAL (Red)

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJ. NO.: R3-7
PROJECT NAME: R3-7
SAMPLERS: (Signature) Sharon E. Schaeffer, Laurie B Wyl

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TAL Metals	Cyanide					REMARKS Tag #'s
1	4/18/90	1000		X	Location 1 (Sludge)	2	1	1					3-1068341, 62.

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Sharon E. Schaeffer	4/18/90 2000				
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) J. F. Morrison	4/19/90	Date / Time 0900	Remarks Shipped via Federal Express Airbill # 2294123705

ORIGINAL

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

ENVIRONMENTAL PROTECTION AGENCY
Office of Enforcement

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJ. NO.: R3-7
PROJECT NAME: R3-7
SAMPLERS: (Signature) Sharon E. Schaffer. Laurie B. Wyl

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	SS 4/18/90 TOC	VOA	BNA	PCB/Pest.	TAL Metals	Cyanide		REMARKS Tag #'s
2	4/18/90	1135		X	Location 2	6	2	1	1	1	1			3-10683 59, 63, 64, 65, 66, 67
3	4/18/90	1145		X	Location 3	6	2	1	1	1	1			3-10683 68, 69, 70, 71, 72, 73
5	4/18/90	1430		X	Location 5	6	2	1	1	1	1			3-10683 74, 75, 76, 77, 78, 79
6	4/18/90	1455		X	Location 6	SS 4/18/90 10	2	~~1~~ 2	~~1~~ 2	~~1~~ 2	~~1~~ 2		SS 4/18/90	3-10683 80, 81, 82, 83, 84, 85, 86, 87, 88, 89
7	4/18/90	1505		X	Location 7	SS 4/18/90 10	2	~~1~~ 2	~~1~~ 2	~~1~~ 2	~~1~~ 2		SS 4/18/90	3-10683 90, 91, 92, 93, 94, 95, 96, 97, 98, 99

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Sharon E. Schaffer	4/18/90 2000				
Relinquished by: (Signature)	Date / Time	Received by: (Signature) J. A. Morrison	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature) J. A. Morrison	Date / Time 4/19/90 0900	Remarks Shipped via Federal Express Airbill # 4026936093	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

Office of Enforcement

REGION 3
Curtis Bldg., 6th & Walnut Sts.
Philadelphia, Pennsylvania 19106

CHAIN OF CUSTODY RECORD

PROJ. NO.: R3-7
PROJECT NAME: R3-7
SAMPLERS: (Signature) Sharon E. Schaffer, Laurie B. Wyle

STA. NO.	DATE	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCLP VOA	TCLP BNA/Metals	VOA	BNA	Pest./PCB		REMARKS
													Tag #'s.
1	4/18/90	1000		X	Location 1 (Sludge)	10	2	2	2	1/2	1/2		3-10683352, 53, 54, 55, 56, 57, 58, 60
					~~Location 2~~ SES 4/18/90					SES 4/18/90	SES 4/18/90		
					~~Location 3~~ SES 4/18/90								
					~~Location 5~~ SES 4/18/90								
					~~Location 6~~ SES 4/18/90								

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
Sharon E. Schaffer	4/18/90 2000				
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	
		G. L. Monson	4/19/90 0900	Shipped via Federal Express Airbill # 2294123705	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

3-18549