

R3574 - R3580

027011

Sample Number  
**R3574**

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: VERSAR INC. Case No: 2427  
Lab. Sample ID No: 5814 QC Report No: 2427  
Sample Matrix: LOW LEVEL AQUEOUS Contract No: 68-01-6755 (824) - 68-01-6757 (825)  
Data Release Authorized By: SEP Date Sample Received: 2-17-84

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
DATE EXTRACTED/PREPARED: 2-17-84 MC  
DATE ANALYZED: 3-10-84  
PERCENT MOISTURE: NP  
CONC./DILUTION FACTOR: NONE

PP #	CAS #	Chemical Name	Concentration (circle one)	PP #	CAS #	Chemical Name	Concentration (circle one)
(21A)	88-06-2	2,4,6-trichlorophenol	10 <u>u</u>	(52B)	87-68-3	hexachlorobutadiene	10 <u>u</u>
(22A)	59-50-7	p-chloro-m-cresol	10 <u>u</u>	(53B)	77-47-8	hexachlorocyclopentadiene	10 <u>u</u>
(24A)	95-57-8	2-chlorophenol	10 <u>u</u>	(54B)	78-39-1	isophorone	10 <u>u</u>
(31A)	120-83-2	2,6-dichlorophenol	10 <u>u</u>	(55B)	91-20-3	naphthalene	10 <u>u</u>
(34A)	105-67-9	2,6-dimethylphenol	10 <u>u</u>	(56B)	98-95-3	nitrobenzene	10 <u>u</u>
(57A)	88-75-3	2-nitrophenol	20 <u>u</u>	(62B)	86-30-6	N-nitrosodiphenylamine	10 <u>u</u>
(A)	100-02-7	4-nitrophenol	50 <u>u</u>	(63B)	621-64-7	N-nitrosodipropylamine	10 <u>u</u>
(59A)	51-25-3	2,6-dinitrophenol	50 <u>u</u>	(66B)	117-81-7	bis(2-ethylhexyl) sebacate	10 <u>u</u>
(60A)	534-52-1	4,6-dinitro-2-methylphenol	20 <u>u</u>	(67B)	85-68-7	benzyl butyl phthalate	10 <u>u</u>
(64A)	87-86-3	pentachlorophenol	10 <u>u</u>	(68B)	88-78-2	di-n-butyl phthalate	10 <u>u</u>
(65A)	108-95-2	phenol	10 <u>u</u>	(69B)	117-84-0	di-n-octyl phthalate	10 <u>u</u>
	63-83-0	benzoic acid	100 <u>u</u>	(70B)	84-66-2	diethyl sebacate	10 <u>u</u>
	95-48-7	2-methylphenol	5 <u>u</u>	(71B)	131-11-3	dimethyl phthalate	10 <u>u</u>
	108-39-8	4-methylphenol	5 <u>u</u>	(72B)	56-55-3	benzo(a)anthracene	10 <u>u</u>
	95-95-8	2,4,5-trichlorophenol	100 <u>u</u>	(73B)	50-32-8	benzo(a)pyrene	20 <u>u</u>
(1B)	83-32-9	acenaophthene	10 <u>u</u>	(74B)	203-99-2	benzo(b)fluoranthene	20 <u>u</u>
(5B)	92-87-3	benzidine	40 <u>u</u>	(75B)	207-08-9	benzo(k)fluoranthene	20 <u>u</u>
(8B)	120-82-1	1,2,4-trichlorobenzene	10 <u>u</u>	(76B)	218-01-9	chrysene	20 <u>u</u>
(9B)	118-78-1	hexachlorobenzene	10 <u>u</u>	(77B)	208-96-8	acenaophthylene	10 <u>u</u>
(12B)	67-72-1	hexachloroethane	10 <u>u</u>	(78B)	120-12-7	anthracene	10 <u>u</u>
(18B)	111-84-8	bis(2-chloroethyl) ether	10 <u>u</u>	(79B)	191-28-2	benzo(g)hperylene	20 <u>u</u>
(20B)	91-58-7	2-chloronaphthalene	10 <u>u</u>	(80B)	86-73-7	fluorene	10 <u>u</u>
(25B)	95-50-1	1,2-dichlorobenzene	10 <u>u</u>	(81B)	85-01-8	phenanthrene	10 <u>u</u>
(26B)	941-73-1	1,3-dichlorobenzene	10 <u>u</u>	(82B)	53-70-3	dibenzof(a,h)anthracene	20 <u>u</u>
(27B)	106-46-7	1,8-dichlorobenzene	10 <u>u</u>	(83B)	193-39-3	indeno(1,2,3-cd)pyrene	20 <u>u</u>
(28B)	91-94-1	3,3'-dichlorobenzidine	20 <u>u</u>	(84B)	129-00-0	pyrene	10 <u>u</u>
(35B)	121-18-2	2,4-dinitrotoluene	20 <u>u</u>		62-53-3	aniline	5 <u>u</u>
(36B)	606-20-2	2,6-dinitrotoluene	20 <u>u</u>		100-51-6	benzyl alcohol	20 <u>u</u>
(37B)	121-66-7	1,2-dibenzylhydrazine	20 <u>u</u>		106-47-8	4-chloroaniline	50 <u>u</u>
(9B)	206-44-0	fluoranthene	10 <u>u</u>		132-64-9	dibenzofuran	10 <u>u</u>
(40B)	7003-72-3	4-chlorobis(phenyl) ether	10 <u>u</u>		91-57-6	2-methylnaphthalene	20 <u>u</u>
(41B)	101-55-3	4-bromophenyl phenyl ether	10 <u>u</u>		88-78-4	2-nitroaniline	100 <u>u</u>
(42B)	39638-72-9	bis(2-chloroisopropyl) ether	20 <u>u</u>		93-09-2	3-nitroaniline	100 <u>u</u>
(43B)	111-91-1	bis(2-chloroethoxy) methane	20 <u>u</u>		100-01-6	4-nitroaniline	100 <u>u</u>

31 000842 July 1983  
027012

Sample Number  
**R3574**

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: VERSAR INC.  
 Lab Sample ID No: 5814  
 Sample Matrix: LOW LEVEL AQUEOUS  
 Data Release Authorized By: [Signature]

Case No: 2427  
 QC Report No: 2427  
 Contract No: 68-01-6756-8264 - 68-01-6757 (825)  
 Date Sample Received: 2-17-84

VOLATILES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 2-21-84  
 DATE ANALYZED: 2-21-84  
 PERCENT MOISTURE: ---  
 CONC./DILUTION FACTOR: ---

PP #	CAS #	NAME	CONC. (ug/kg or ug/g) (circle one)
(2V)	107-02-8	acrolein	100 u
(3V)	107-13-1	acrylonitrile	100 u
(4V)	71-43-2	benzene	5 u
(6V)	56-23-3	carbon tetrachloride	5 u
(7V)	108-90-7	chlorobenzene	5 u
(10V)	107-06-2	1,2-dichloroethane	1 u
(11V)	71-55-6	1,1,1-trichloroethane	5 u
(13V)	75-34-3	1,1-dichloroethane	5 u
(14V)	79-00-5	1,1,2-trichloroethane	5 u
(15V)	79-34-3	1,1,2,2-tetrachloroethane	10 u
(V)	75-00-3	chloroethane	10 u
(19V)	110-75-8	2-chloroethylvinyl ether	10 u
(23V)	67-66-3	chloroform	5 u
(29V)	75-35-4	1,1-dichloroethene	5 u
(30V)	156-60-3	trans-1,2-dichloroethene	5 u
(32V)	78-87-5	1,2-dichloropropane	10 u
(33V)	10061-02-6	trans-1,3-dichloropropene	5 u
	10061-01-05	cis-1,3-dichloropropene	5 u
(38V)	100-41-4	ethylbenzene	5 u
(44V)	75-09-2	methylene chloride	5 u
(45V)	74-87-3	chloromethane	10 u
(46V)	74-83-9	bromomethane	10 u
(47V)	75-25-2	bromoform	10 u
(48V)	75-27-4	bromodichloromethane	5 u
(49V)	75-69-4	fluorotrichloromethane	5 u
(50V)	75-71-8	dichlorodifluoromethane	5 u
(51V)	124-48-1	chlorodibromomethane	5 u
(53V)	127-18-4	tetrachloroethene	5 u
(86V)	108-88-3	toluene	5 u
(87V)	79-01-6	trichloroethene	5 u
(88V)	75-01-4	vinyl chloride	10 u
	67-84-1	acetone	82.
	78-93-3	2-butanone	5 u
	75-13-0	carbonyl sulfide	1 u
	519-72-6	2-hexanone	5 u
	108-10-1	4-methyl-2-octanone	5 u
	100-42-5	styrene	5 u
	108-05-4	vinyl acetate	5 u
	1330-20-7	total xylenes	5 u

PESTICIDES Andrew

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 2-20-84  
 DATE ANALYZED: 3-13-84  
 PERCENT MOISTURE: N/A  
 CONC./DILUTION FACTOR: 1.0 → 10ml (circle one)

PP #	CAS #	NAME	CONC. (ug/kg or ug/g) (circle one)
(39P)	309-00-2	aldrin	0.005u
(90P)	60-37-1	dieldrin	0.005u
(91P)	57-76-9	chlorlone	0.050u
(92P)	50-29-3	4,4'-DDT	0.010u
(93P)	72-55-9	4,4'-DDE	0.005u
(94P)	72-54-8	4,4'-DDD	0.010u
(95P)	115-29-7	γ-endosulfan	0.005u
(96P)	115-29-7	β-endosulfan	0.005u
(97P)	1031-07-8	endosulfan sulfate	0.010u
(98P)	72-20-8	endrin	0.005u
(99P)	7421-93-4	endrin aldehyde	0.010u
(100P)	76-44-8	heptachlor	0.005u
(101P)	1024-37-3	heptachlor epoxide	0.005u
(102P)	319-84-6	α-BHC	0.005u
(103P)	319-83-7	β-BHC	0.005u
(104P)	319-86-8	γ-BHC	0.005u
(105P)	38-89-9	γ-BHC (lindane)	0.005u
(106P)	53469-21-9	PCB-1242	0.050u
(107P)	11077-69-1	PCB-1254	0.100u
(108P)	11104-28-2	PCB-1221	0.100u
(109P)	11141-16-3	PCB-1232	0.100u
(110P)	12672-29-6	PCB-1248	0.100u
(111P)	11096-82-3	PCB-1260	0.200u
(112P)	12674-11-2	PCB-1016	0.050u
(113P)	8001-35-2	toxaphene	0.050u

DIOXINS AC

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 2-20-84  
 DATE ANALYZED: 3-13-84  
 PERCENT MOISTURE: ---  
 CONC./DILUTION FACTOR: 1000 → 5

PP #	CAS #	NAME	CONC. (ug/kg or ug/g) (circle one)
(129B)	1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.002u

31 000843  
 July 1983  
 027013

ORGANICS ANALYSIS DATA SHEET - Page 3

LABORATORY FILE NO. R 3574

Laboratory Name: VERSAR INC. Case No: 2427  
 QC Report No: 2427

B. Tentatively Identified Compounds

CAS #	Compound Name	Fraction	Scan No. or Retention Time	% MAXIMUM SCORE ATTAINED Mass Matching Routine(s) (Specify <u>PM</u> )	Estimated Concentration (ug/L or ug/kg)
1. 288767	1,2-DIBROMOETHANE (3,10) HEAVY	B1B	1099	91%	29
2. 68129	Formaldehyde, n,n-Dimethyl	R1A	418	90%	14
3. 2407077	Cyclopentane, 2-methyl	R1A	550	91%	57
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4/82

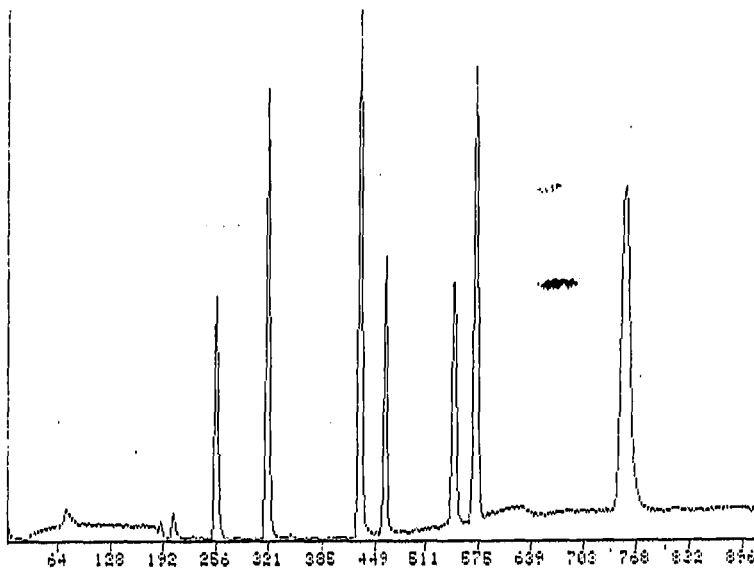
31 000844  
027014

NAME VOA SAMPLE#58140 EML EPA#83574 CASE 2427  
 MISC 24991 33 10019 1720 2-21-84 HB:PM

FRN 24991

22785

TI



AREA TABLE ENTRIES: FRN 24991

Entry	Time	Mass	Area	% x R.F. = conc. (mg/L)	IS
1	10.7	127.7	6921.	100.0	IS
2	13.1	64.7	24274.	$350.7 \times 0.298 = 105.$	SS
3	9.0	42.7	3018.	$43.6 \times 1.88 = 82.$	acetone

CALCULATE % ON ENTRY #1  
 AREA TABLE ENTRIES: FRN 24991

Entry	Time	Mass	Area	%	IS
1	18.5	76.7	12485.	100.0	IS
2	17.3	89.7	39872.	$321.4 \times 0.308 = 99.$	SS

CALCULATE % ON ENTRY #1  
 AREA TABLE ENTRIES: FRN 24991

Entry	Time	Mass	Area	%	IS
1	21.7	54.7	14759.	100.0	IS
2	22.7	87.7	29842.	$198.8 \times 0.434 = 86.$	SS
3	29.9	94.7	31119.	$210.8 \times 0.422 = 89.$	SS

CALCULATE % ON ENTRY #1

31 000845 X

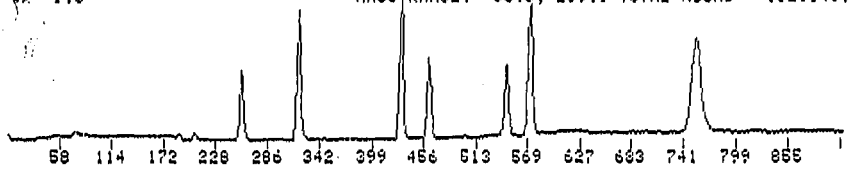
027015

VOA SAMPLE#56140 SML EPA#R3674 CASE 2427

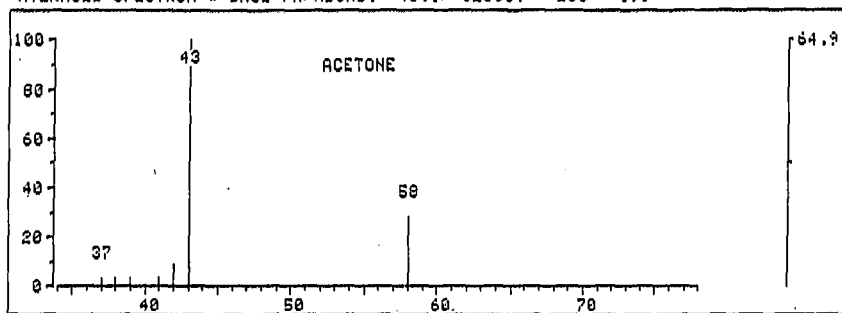
FRN 24991, CRN 33

24991 33 10019 1720 2/21/84 MB/PM 916 SCANS ( 916 SCANS, 35.07 MIN)

x 1.0 MASS RANGE: 33.0, 209.1 TOTAL ABUND= 1321143.



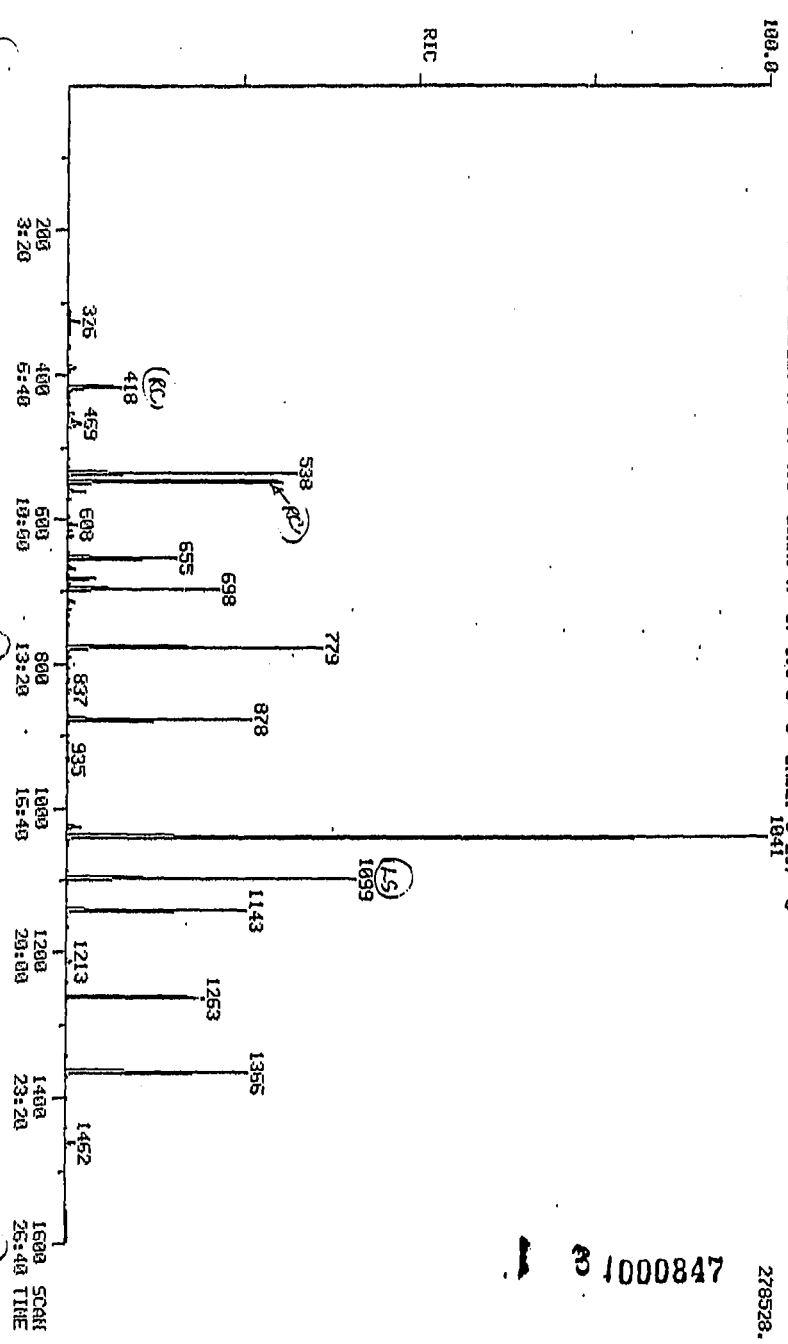
AVERAGED SPECTRUM \* BASE PK/ABUND: 43.1/ 32000. + 206 -198



31 000846

027016

RIC  
 03/10/84 18:34:00  
 SAMPLE: BHA SAMPLE R3574 CASE 2427 1.2UL  
 COND5.: SP8-5 300\*0.32MMID 1.0UMDF 300/4MIN TO 2800C/10C/MIN HOLD 26MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 1841  
 DATA: 1239 #1  
 CALL: 1237 #3  
 SCANS 1 TO 1600  
 3

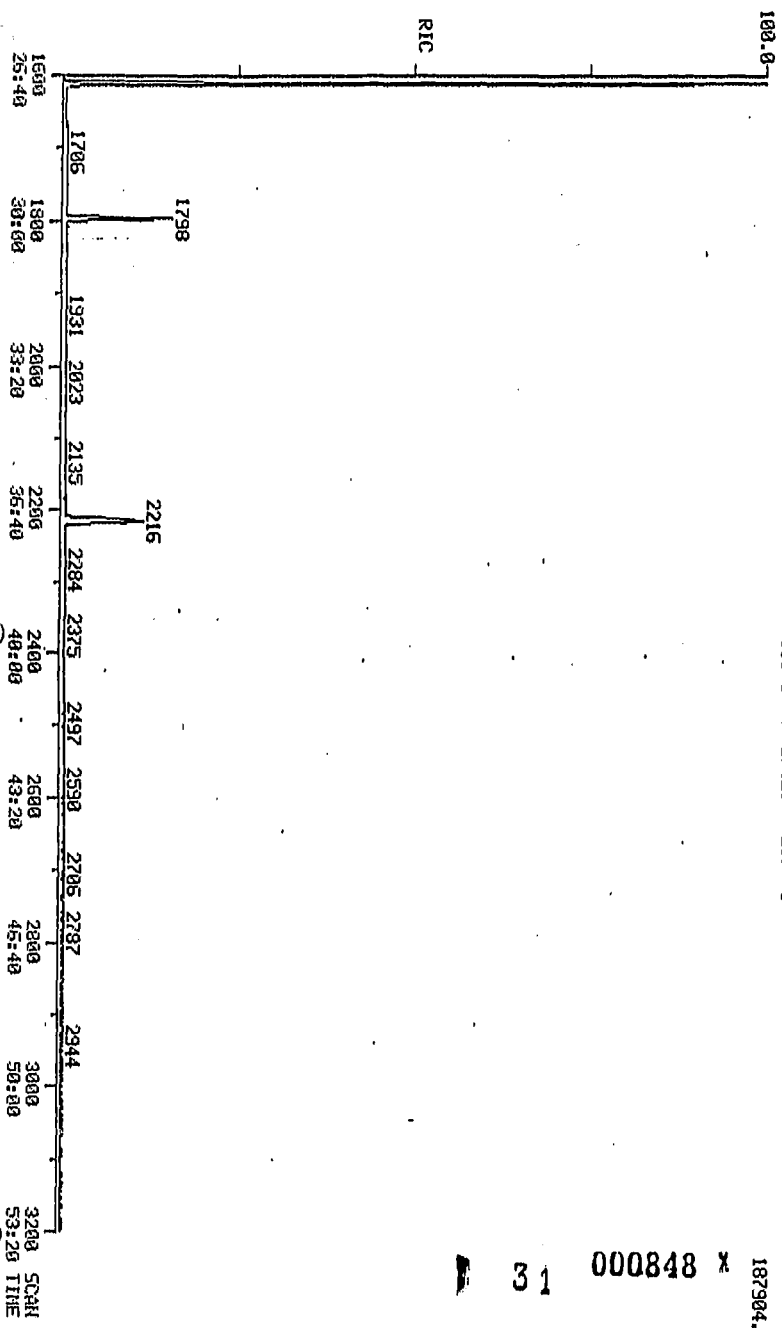


1000847

278528.

027017

RIC  
 03/10/84 18:34:00  
 SAMPLE: BNA SAMPLE R3574 CASE 2427 1.2UL  
 COND.: SP8-S 300K0.32MINID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3  
 DATA: 1239 #1  
 CALL: 1237 #3  
 SCANS 1600 TO 3200



187904.  
 027018  
 31 000848 \*



Quantitation Report File: 1239

Date: 1239.TI  
03/10/84 18:34:00  
Sample: BNA SAMPLE R3574 CASE 2427 1.2VL  
Submitted by: VERSAR Analyst: SEP

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

NONE DETECTED  
1 LIBRARY SEARCH

- | NO | NAME   |
|----|--|
| 1  | 1,4-DICHLOROBENZENE D4 ***INTERNAL STANDARD#1*** |
| 2  | N-NITROSODIMETHYLAMINE                           |
| 3  | ANILINE  |
| 4  | 2-CHLOROPHENOL                                   |
| 5  | PHENOL   |
| 6  | BIS(2-CHLOROETHYL)ETHER                          |
| 7  | 1,3-DICHLOROBENZENE                              |
| 8  | 1,4-DICHLOROBENZENE                              |
| 9  | 1,2-DICHLOROBENZENE                              |
| 10 | BENZYL ALCOHOL                                   |
| 11 | BIS(2-CHLORODISOPROPYL)ETHER                     |
| 12 | 2-METHYLPHENOL                                   |
| 13 | HEXACHLOROETHANE                                 |
| 14 | 4-METHYLPHENOL                                   |
| 15 | N-NITROSO-DI-N-PROPYLAMINE                       |
| 16 | NITROBENZENE                                     |
| 17 | NAPHTHALENE D6 ***INTERNAL STANDARD#2***         |
| 18 | ISOPHORONE                                       |
| 19 | 2-NITROPHENOL                                    |
| 20 | 2,4-DIMETHYLPHENOL                               |
| 21 | BIS(2-CHLOROETHOXY)METHANE                       |
| 22 | 2,4-DICHLOROPHENOL                               |
| 23 | 1,2,4-TRICHLOROBENZENE                           |
| 24 | NAPHTHALENE                                      |
| 25 | BENZOIC ACID                                     |
| 26 | 4-CHLOROANILINE                                  |
| 27 | HEXACHLOROBUTADIENE                              |
| 28 | 4-CHLORO-M-CRESOL                                |
| 29 | 2-METHYLNAPHTHALENE                              |
| 30 | ACENAPHTHENE D10 ***INTERNAL STANDARD#3***       |
| 31 | HEXACHLOROCYCLOPENTADIENE                        |
| 32 | 2,4,6-TRICHLOROPHENOL                            |
| 33 | 2,4,5-TRICHLOROPHENOL                            |
| 34 | 2-CHLORONAPHTHALENE                              |
| 35 | 2-NITROANILINE                                   |
| 36 | ACENAPHTHYLENE                                   |
| 37 | DIMETHYLPHTHALATE                                |
| 38 | 2,6-DINITROTOLUENE                               |
| 39 | ACENAPHTHENE                                     |
| 40 | 3-NITROANILINE                                   |
| 41 | 2,4-DINITROPHENOL                                |
| 42 | DIBENZOFURAN                                     |
| 43 | 4-NITROPHENOL                                    |
| 44 | 2,4-DINITROTOLUENE                               |
| 45 | FLUORENE   |
| 46 | 4-CHLOROPHENYLPHENYLETHER                        |
| 47 | DIETHYLPHTHALATE                                 |
| 48 | 4-NITROANILINE                                   |
| 49 | 4,6-DINITRO-O-CRESOL                             |
| 50 | DIPHENYLAMINE                                    |

1099

31 000849 X  
027019

1237

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	698	11:38	1	1.000	A BB	21073.	24.000 NG/UL	32.44
<del>2</del>	<del>74</del>	<del>541</del>	<del>5:41</del>	<del>1</del>	<del>0.489</del>	<del>A BB</del>	<del>45.</del>	<del>0.057-NG</del>	<del>0.08</del> <i>skip</i>
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	NOT FOUND								
7	NOT FOUND								
8	NOT FOUND								
<del>9</del>	<del>146</del>	<del>726</del>	<del>12:06</del>	<del>1</del>	<del>1.040</del>	<del>A BB</del>	<del>727.</del>	<del>0.501-NG</del>	<del>0.68</del> <i>skip</i>
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
<del>15</del>	<del>49</del>	<del>747</del>	<del>12:27</del>	<del>1</del>	<del>1.070</del>	<del>A BB</del>	<del>171.</del>	<del>0.237-NG</del>	<del>0.32</del> <i>skip</i>
16	NOT FOUND								
17	136	878	14:38	17	1.000	A BB	83122.	24.000 NG/UL	32.44
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	NOT FOUND								
<del>25</del>	<del>105</del>	<del>838</del>	<del>12:58</del>	<del>17</del>	<del>0.954</del>	<del>A BB</del>	<del>312.</del>	<del>0.430-NG</del>	<del>0.58</del> <i>skip</i>
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	164	1142	19:02	30	1.000	A BB	45758.	24.000 NG/UL	32.44
31	NOT FOUND								
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								
<del>50</del>	<del>167</del>	<del>1242</del>	<del>20:42</del>	<del>30</del>	<del>1.088</del>	<del>A BB</del>	<del>460.</del>	<del>0.805-NG</del>	<del>1.09</del> <i>skip</i>

31 000850

027020

Quantitation Report File: 1239

Data: 1239.TI  
03/10/84 18:34:00  
Sample: BNA SAMPLE R3574 CASE 2427 1.2UL  
Submitted by: VERSAR Analyst: SEP

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

NO NAME  
51 PHENANTHRENE D10 \*\*\*INTERNAL STANDARD#4\*\*\*  
52 1,2-DIPHENYLHYDRAZINE  
53 4-BROMOPHENYLPHENYLETHER  
54 HEXACHLOROBENZENE  
55 PENTACHLOROPHENDL  
56 PHENANTHRENE  
57 ANTHRACENE  
58 DIBUTYLPHTHALATE  
59 FLUORANTHENE  
60 BENZIDINE  
61 PYRENE  
62 CHRYSENE D12\*\*\*INTERNAL STANDARD#5\*\*\*  
63 BUTYL BENZYL PHTHALATE  
64 BENZO(A)ANTHRACENE  
65 CHRYSENE  
66 3,3'-DICHLOROBENZIDINE  
67 BIS(2-ETHYLHEXYL)PHTHALATE  
68 BENZO(A)PYRENE D12 \*\*\*INTERNAL STANDARD#6\*\*\*  
69 DIOCTYLPHTHALATE  
70 BENZO(B)FLUORANTHENE  
71 BENZO(K)FLUORANTHENE  
72 BENZO(A)PYRENE  
73 INDENO(1,2,3-CD)PYRENE  
74 DIBENZO(A,H)ANTHRACENE  
75 BENZO(GHI)PERYLENE

000851 X  
027021

1239

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	188	1366	22:46	51	1.000	A BB	73173.	24.000 NG/UL	24.40
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								
<del>58</del>	<del>147</del>	<del>1462</del>	<del>24:22</del>	<del>51</del>	<del>1.070</del>	<del>A BB</del>	<del>8471.</del>	<del>2.122 NG</del>	<del>2.16</del> <i>67</i>
59	NOT FOUND								
60	NOT FOUND								
61	NOT FOUND								
62	240	1797	29:57	62	1.000	A BB	29330.	24.000 NG/UL	24.40
63	NOT FOUND								
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								
<del>67</del>	<del>147</del>	<del>1807</del>	<del>30:07</del>	<del>62</del>	<del>1.007</del>	<del>A BB</del>	<del>357.</del> <i>112</i>	<del>0.244 NG</del>	<del>0.25</del> <i>68</i>
68	264	2216	36:56	68	1.000	A BB	41910.	48.000 NG/UL	48.81
69	NOT FOUND								
70	NOT FOUND								
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								

31000852 A

027022

Quantitation Report File: 1237G

Data: 1237.TI  
03/10/84 18:34:00  
Sample: DNA SAMPLE R3574 CASE 2427 1.2UL  
Submitted by: VERGAR Analyst: SEP

AMOUNT=AREA \* REF.AMNT/(REF.AREA)\* RESP.FACT)\* 1.670  
Resp. fac. from average of whole .RL

NO NAME  
1 2-FLUOROPHENOL \*ACID SURROGATE\*  
2 PHENOL D5 \*ACID SURROGATE\*  
3 1,4-DICHLOROBENZENE D4 \*\*\*INTERNAL STANDARD#1\*\*\*  
4 NITROBENZENE D5 \*BN SURROGATE\*  
5 NAPHTHALENE D8 \*\*\*INTERNAL STANDARD#2\*\*\*  
6 2-FLUOROBIPHENYL \*BN SURROGATE\*  
7 ACENAPHTHENE D10 \*\*\*INTERNAL STANDARD#3\*\*\*  
8 2,4,6-TRIBROMOPHENOL \*ACID SURROGATE\*  
9 PHENANTHRENE D10 \*\*\*INTERNAL STANDARD#4\*\*\*  
10 P-TERPHEYL D14 \*BN SURROGATE\*  
11 CHRYSENE D12\*\*\*INTERNAL STANDARD#5\*\*\*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	112	538	8:58	3	0.771	A BV	59851.	80.895 NG	11.17
2	98	655	10:55	3	0.938	A BB	37853.	44.290 NG	6.12
3	152	698	11:38	3	1.000	A BB	21073.	40.080 NG/UL	5.53
4	82	779	12:59	5	0.887	A BV	70249.	100.278 NG	13.85
5	136	878	14:38	5	1.000	A BB	83122.	40.080 NG/UL	5.53
6	172	1041	17:21	7	0.912	A BV	163333.	98.866 NG	13.65
7	164	1142	19:02	7	1.000	A BB	43738.	40.080 NG/UL	5.53
8	330	1262	21:02	9	0.924	A BB	20491.	87.071 NG	12.02
9	188	1366	22:46	9	1.000	A BB	73173.	40.080 NG/UL	5.53
10	244	1612	26:52	11	0.897	A BB	182210.	112.442 NG	15.53
11	240	1797	29:57	11	1.000	A BB	29330.	40.080 NG/UL	5.53

31 000853

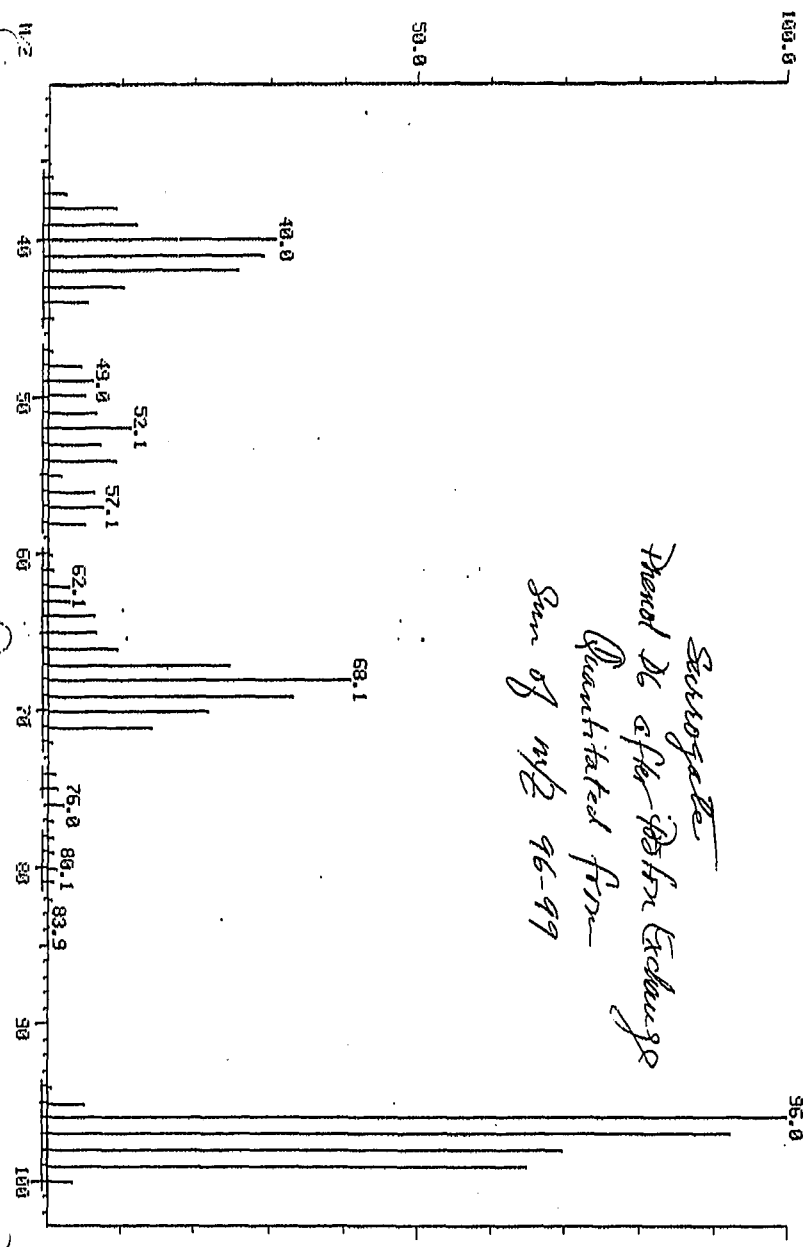
027023

MASS SPECTRUM  
 03/10/84 18:34:08 + 10:55  
 SAMPLE: BMR SAMPLE R3574 CASE 2427 1.2UL  
 CORDS.: SPB-5 30VFB0.32MMID 1.0UMDF 30C/4MIN TO 2800G10C/MIN HOLD 26MIN

DATE: 1239 #655  
 CALL: 1239 #3

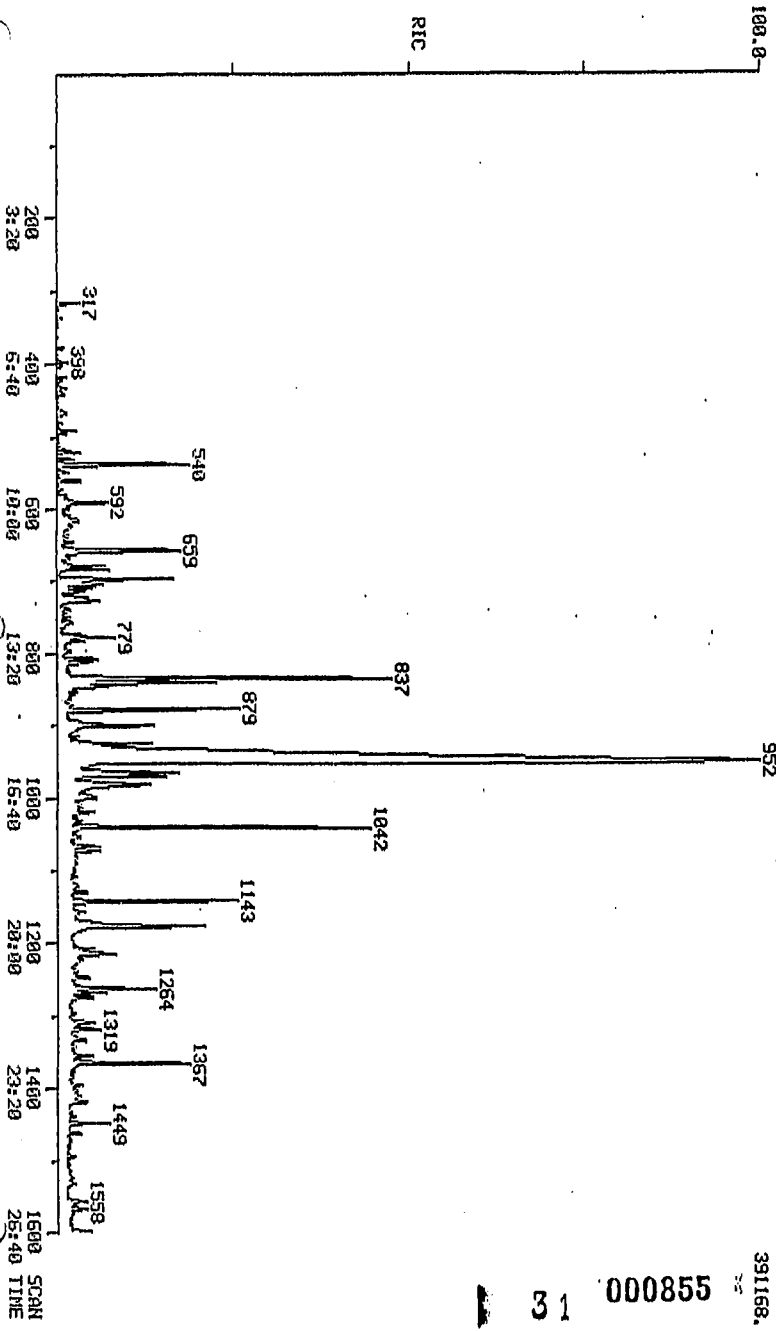
BASE M/Z: 95  
 RIC: 43968.

*Savoyale*  
*Thermal Dc after P/B for Exchange*  
*Quantitated from*  
*Sum of m/z 96-99*



31 000854 \* 027024  
 6298.

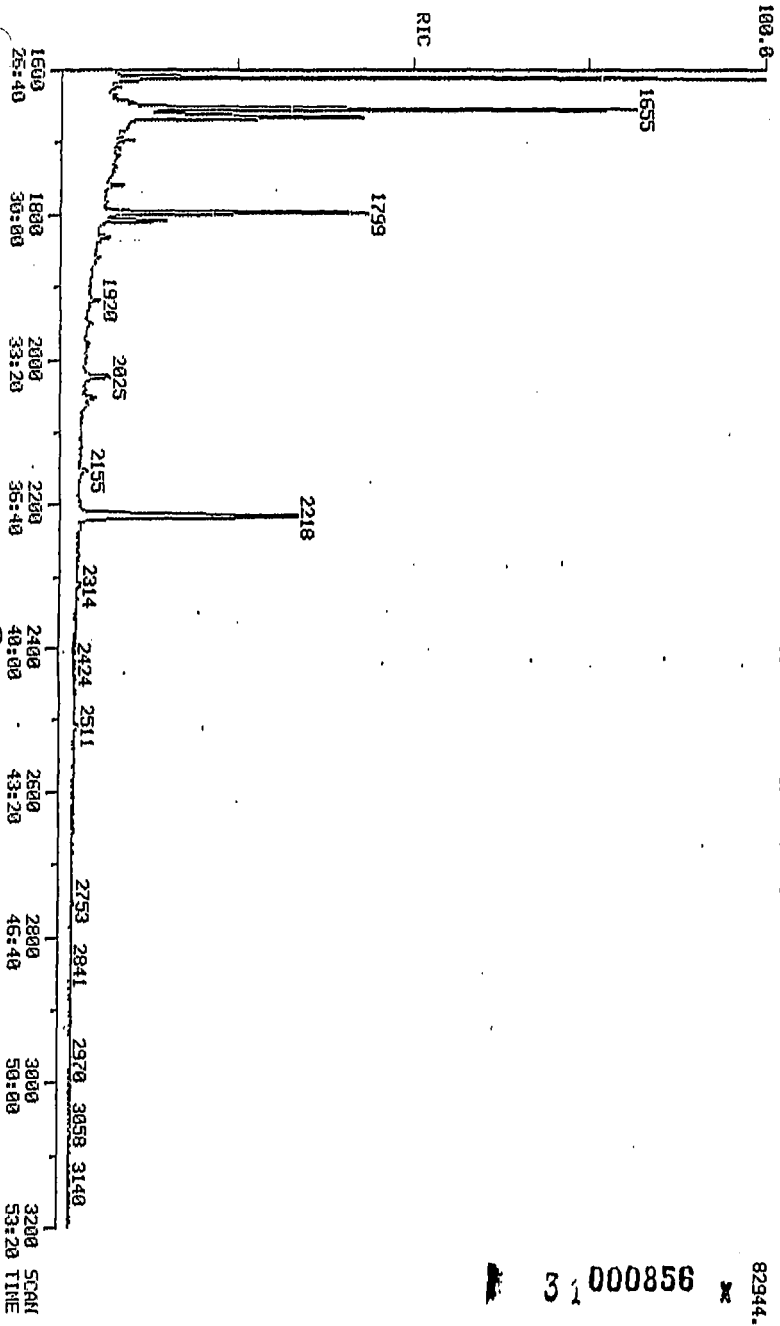
RIC  
 03/10/84 19:38:00  
 SAMPLE: BNR SAMPLE R3579 CASE 2427 1.2UL  
 COND.S.: SPB-S 30MHZ.32MMID 1.0UMDF 30C/4MIN TO 280C/10C/MIN HOLD 26MIN  
 RAFFICE: G 1.3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 B95E: U 20, 3  
 552  
 DATA: 1240 #1  
 CELL: 1237 #3  
 SCANS 1 TO 1600



31 000855 391168. 027025

RIC  
 03/10/84 19:38:00  
 SAMPLE: BRQ SAMPLE R3579 CASE 2427 1.2UL  
 COND.: SP8-5 300/10.32MMID 1.0UMID-300/4MIN TO 2800C/10C/MIN HOLD 26MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 RUN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1240 #1  
 CALI: 1237 #3  
 SCANS 1600 TO 3200



1600 25:40  
 1800 30:00  
 2000 33:20  
 2200 35:40  
 2400 40:00  
 2600 43:20  
 2800 45:40  
 3000 50:00  
 3200 53:20  
 SCANN TIME

31000856

82944.

027026



Library Search                      Data: 1239 #1099                      Base m/z: 82  
 03/10/84 18:34:00 + 18:19      Cali: 1239 # 3                      RIC: 112383 = 89  
 Sample: DNA SAMPLE R3574 CASE 2427 1.2UL                      1265  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN

38752 spectra in LIBRARYNB searched for maximum FIT  
 188 matched at least 7 of the 16 largest peaks in the unknown

- Rank In.                      Name  
 1    465 1-AZABICYCLO[3.1.0]HEXANE  
 2    3809 FORMIC ACID, CYCLOHEXYL ESTER  
 3    2783 CYCLOHEXANE, CHLORO-  
 4    1286 4-HEXEN-1-OL, (Z)-  
 5    3329 CYCLOPENTANE, 1-METHYL-2-(2-PROPENYL)-, TRANS-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C8.H9.N	83	82	635	964	635
2	C7.H12.O2	128	67	812	930	812
3	C6.H11.CL	118	67	758	919	790
4	C6.H12.O	100	67	620	906	620
5	C9.H16	124	83	722	886	750

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	285-76-7
2	---	---	---	---	4351-54-4
3	---	---	---	---	542-18-7
4	---	---	---	---	928-91-6
5	---	---	---	---	50746-53-7

Mass	Inten	1	2	3	4	5
27		139		126	311	255
28		497				
29		101	142		219	132
31		39			210	
32		68				
39	120	56	95	153	255	170
41	266	119	224	325	436	310
42	68	207	63	39	105	
43	88		76			
44	64		112			
53	49	32		56	97	83
54	284	163	243	223	132	64
55	379	628	218	295	248	590
56	98	51	54	64	68	
57	194		434		147	
65	12					
66	17					
67	641		893	1047	965	353
68	44		54	63	69	68
69	17			49	79	
71	11		49			
75				33		
79	30					39
81	104		79	79	93	250
82	1000	861	848	848	407	524
83	658	762	195	315		951
84	46	68				61
85	28					
95						57
96						39
97	2					
98	17					

31 000857 027027

99	50
100	2
109	1
111	2
113	4
118	
120	
124	15
125	8
126	1
127	4
137	72
138	4
139	4
152	3
153	1
165	12

47  
16

31

000858

027023

LIBRARY SEARCH  
 03/10/84 19:34:00 + 18:19  
 SAMPLE: BNA SAMPLE R3574 CASE 2427 1.2U  
 COND.: SFB-5 30KHZ.32MINTD 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 25MIN

DATA: 1239 #1099  
 CALL: 1239 # 3

BASE WZ: 82  
 RIC: 112383.

1047  
 SAMPLE

1-HEXANECYCLOF3.1.0HEXANE

C5.H9.N  
 H UT 1047  
 S PK 83  
 RANK 82  
 IN 1  
 FIT 155  
 984

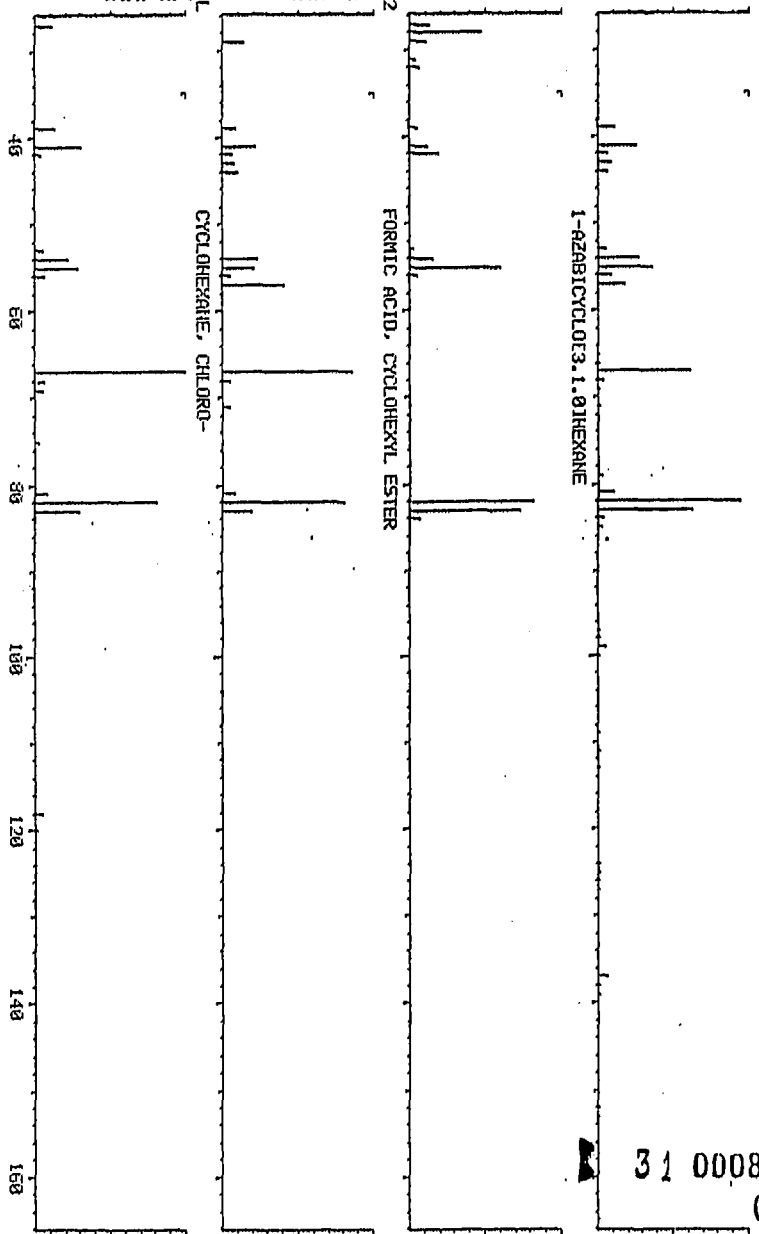
FORMIC ACID, CYCLOHEXYL ESTER

C7.H12.O2  
 H UT 1047  
 S PK 126  
 RANK 67  
 IN 3820  
 FIT 930

CYCLOHEXANE, CHLORO-

C6.H11.Cl  
 H UT 1047  
 S PK 118  
 RANK 67  
 IN 2783  
 FIT 913

M/Z



31 000859 x  
 027029

Library Search Data: 1239 # 418 Base m/z: 73  
 03/10/84 18:34:00 + 6:58 Cali: 1239 # 3 RIC: 17567  
 Sample: BNA SAMPLE R3574 CASE 2427 1.2UL  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT)

38752 spectra in LIBRARYNB searched for maximum FIT  
 212 matched at least 6 of the 15 largest peaks in the unknown

- Rank In. Name  
 1 270 FORMAMIDE, N,N-DIMETHYL-  
 2 25352 1H-PYRIMID[4,5;6-1JJ]C(2,7)NAPHTHYRIDINE-6-CARBONITRILE, 2-ETHYL-5,8\*  
 3 100 2-PROPANAMINE  
 4 2714 L-ALANINE, ETHYL ESTER  
 5 2595 1,3-DIOXOLANE, 2-(1-METHYLETHYL)-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C3.H7.O.N	73	73	978	994	978
2	C14.H13.O2.N5	283	73	928	935	985
3	C3.H9.N	59	44	344	890	356
4	C5.H11.O2.N	117	44	364	859	374
5	C6.H12.O2	116	73	507	846	555

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	68-12-2
2	---	---	---	---	55044-48-9
3	---	---	---	---	75-31-0
4	---	---	---	---	3082-75-5
5	---	---	---	---	822-83-3

Mass	Inten	1	2	3	4	5
15				36		187
16				22		
17				42		
18				228	41	
26					8	
27				51	43	52
28		186		80		36
29		74		15	46	
30		205		15	19	
38	7					
39	14		13			30
40	47	18	31			
41	55	27	41	87	14	53
42	344	312	241	87	58	
43	73	61	75	65	24	57
44	654	751	760	731	710	
45	18	17	19	51	27	216
46					8	
55	2				8	29
56	12		15	14	7	63
57						39
58	56	46	54	66		
59				29		
60	12					
71						20
72	84	61	73		47	
73	1000	1018	982			972
74	32	40	57		57	39
99						8
101						7

3 1000860  
 027030

102  
115  
116  
282  
283

13  
17

22  
11

31 000861 X 4

027031

LIBRARY SEARCH  
 03/10/84 18:34:00 + 6:58  
 SAMPLE: BNA SAMPLE R2574 CASE 2427 1.2UL  
 COND.: SPB-5 30KX0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 ENHANCED (S 15S 2H 01)

DATA: 1239 # 418  
 CALL: 1239 # 3

BASE M/Z: 73  
 RIC: 17567

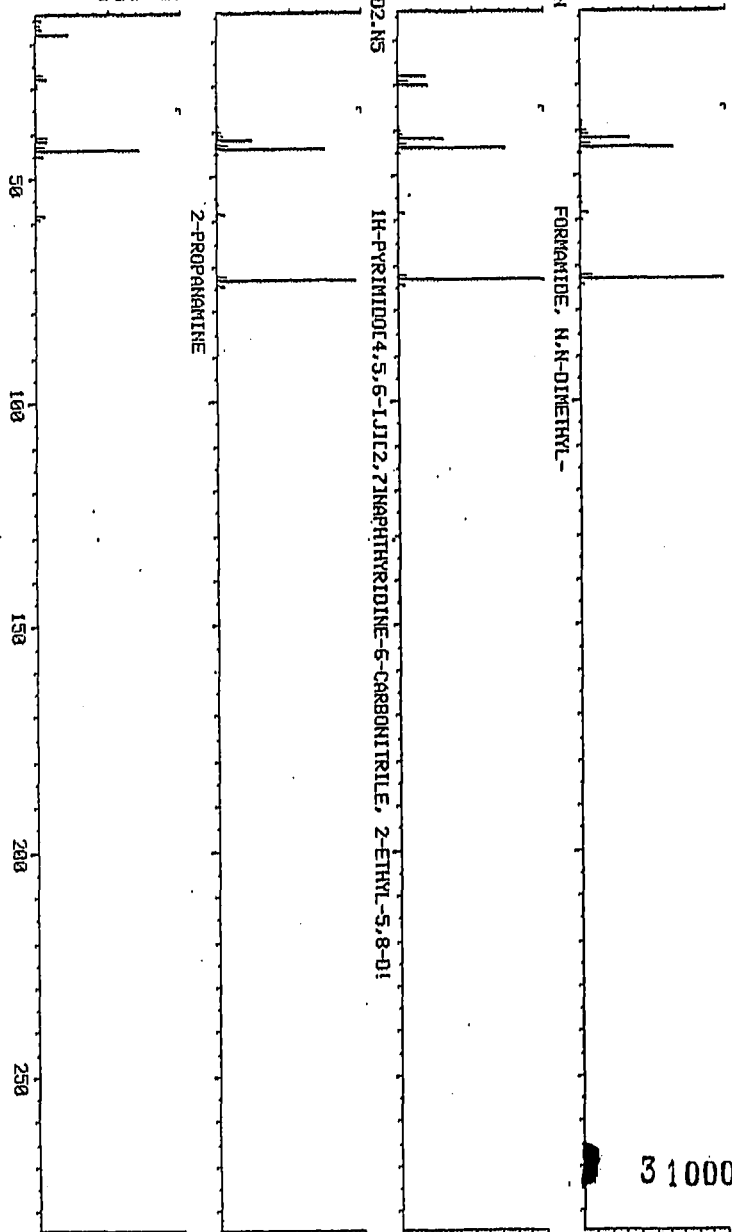
1018  
 SAMPLE

C3.H7.O.N  
 N UT 1018  
 B PK 73  
 RCHK 1  
 IN 276  
 FIT 394

C14.H13.O2.N5  
 N UT 1018  
 B PK 73  
 RCHK 1  
 IN 25352  
 FIT 935

C3.H9.N  
 N UT 1018  
 B PK 73  
 RCHK 1  
 IN 160  
 FIT 850

M/Z



3 1000862  
 027032

Library Search Data: 1239 # 550 Base m/z: 57  
 93/10/84 18:34:00 + 9:10 Cali: 1239 # 3 RIC: 70915 = 5a  
 Sample: BNA SAMPLE R3974 CASE 2427 1.2UL 1265  
 Conds.: SPB-5 30M\*O. 32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT)

38752 spectra in LIBRARYND searched for maximum FIT  
 171 matched at least 7 of the 16 largest peaks in the unknown

Rank In. Name  
 1 132B CYCLOPENTANOL, 2-METHYL-  
 2 1331 CYCLOPENTANOL, 2-METHYL-, CIS-  
 3 1289 2-HEXEN-1-OL, (E)-  
 4 1330 CYCLOPENTANOL, 2-METHYL-, TRANS-  
 5 1288 2-HEXEN-1-OL, (Z)-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6.H12.O	100	57	897	962	897
2	C6.H12.O	100	57	877	958	877
3	C6.H12.O	100	57	828	956	828
4	C6.H12.O	100	57	877	953	877
5	C6.H12.O	100	57	832	951	832

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	24070-77-7
2	---	---	---	---	25144-05-2
3	---	---	---	---	928-95-0
4	---	---	---	---	25144-04-1
5	---	---	---	---	928-94-9

Mass	Inten	1	2	3	4	5
27				224		283
28						126
29				235		206
31				117		
39	142	163		91		239
41	217	312	308	374	332	474
42	79	59	74	95	74	81
43	135	161	193	189	220	109
44	249	275	254	177	261	210
45	36	68	75		75	
53	39		50			67
54	100	44	50		47	71
55	90	95	100	115	113	105
56	143	189	176	152	188	72
57	1000	814	778	1077	740	823
58	83	146	147	75	156	
67	224	244	218	160	209	409
68	13					
69	15			61		
70	12					
71	140	231	244	120	231	74
72	71	86	101		92	
79	14					
81	46					
82	464	265	287	202	278	283
83	34				38	
99	10					
100	21	72	83		81	

31000863

027033

LIBRARY SEARCH  
 03/18/84 18:34:00 + 9:10  
 SAMPLE: BNA SAMPLE R3574 CASE 2427 1.2UL  
 COND.S.: SPB-5 30MNO.32MINID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 ENHANCED (S 158 ZN 01)

DATA: 1239 # 550  
 CALL: 1239 # 3  
 BASE M/Z: 57  
 RIC: 70911.

1077  
 SAMPLE

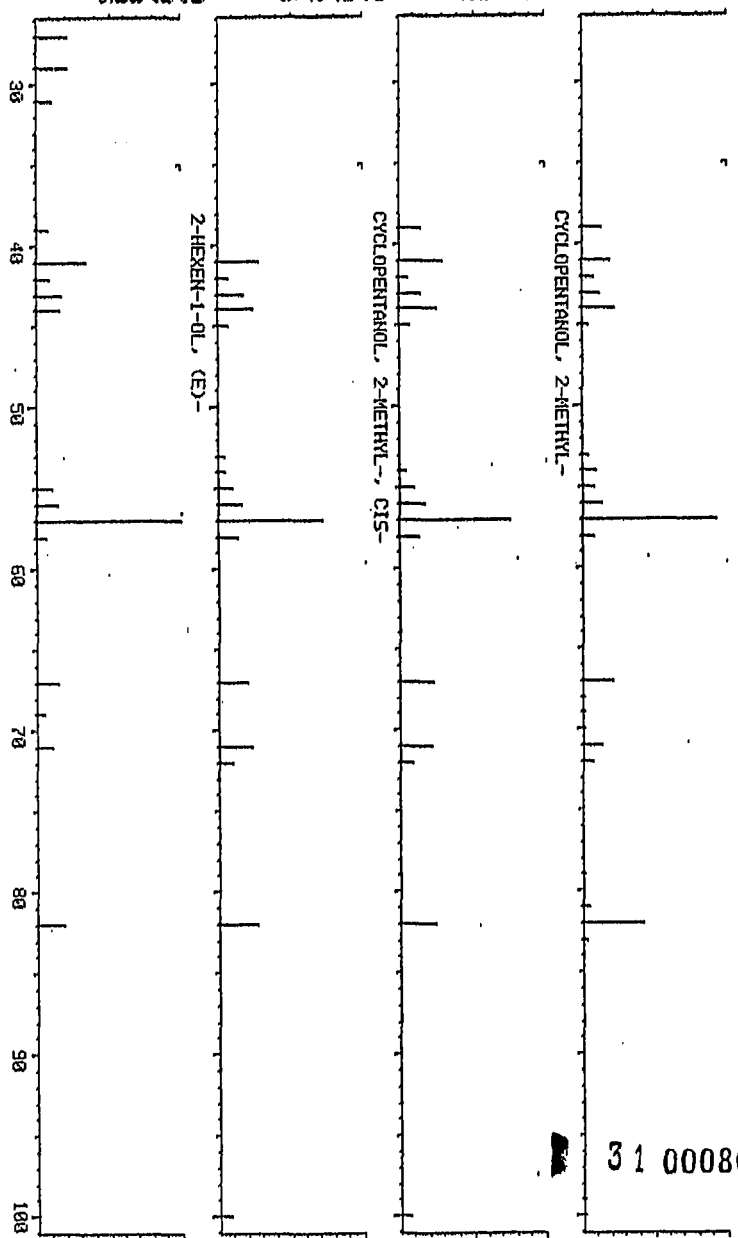
05.H12.0  
 H RT 1077  
 B PK 166  
 RANK 57  
 IN 1328  
 FIT 962

05.H12.0

H RT 1077  
 B PK 166  
 RANK 57  
 IN 1331  
 FIT 958

05.H12.0  
 H RT 1077  
 B PK 97  
 RANK 3  
 IN 1289  
 FIT 956

M/Z



31 000864 027034



PESTICIDE DATA REDUCTION FORM

Case # 2427 Sample # R3574  
 Sample Wt/Vol 1000.1 Final Vol 100.1  
 % Moisture NA Solid or Liquid L

	Typical RI	Fraction	Dilution	Injection Conc. $\mu\text{g/ml}$	Light Box	Dilution	Injection Conc.	Light Box	Second Column	Light Box	Sample Conc. $\mu\text{g/l}$
$\alpha$ -BHC	3.98	1		—							
$\beta$ -BHC	4.49	1		—							
$\gamma$ -BHC	4.67	1		—							
$\delta$ -BHC	5.24	1		—							
Heptachlor	6.88	1		—							
Aldrin	8.38	1		—							
Heptachlor epoxide	10.57	1		—							
$\alpha$ -Endosulfan	13.16	1&2		—							
Dieldrin	15.47	2		—							
P,p'-DDE	15.72	1		—							
Endrin	17.67	2		—							
$\beta$ -Endosulfan	18.77	3		—							
P,p'-DDD	20.74	1		—							
Endrin Aldehyde	21.50	2&3		—							
Endosulfan Sulfate	24.95	3		—							
P,p'-DDT	26.72	1		—							
DDC	47.87	1,2,3		2.46	+						

98%

3 1000865  
027035

EDIT AUTO SEQ 8:00  
PR: AUTO SEQ  
OVEN TEMP NOT READY

R 3574 6%  
Pest Analysis

TI: 00133 MAR 13 1984  
RT: ATTN # 215

1.35

2.31  
3.31  
4.31  
5.31  
6.31  
7.31  
8.31  
9.06  
10.66 10.16  
13.42  
13.57  
16.12  
20.72  
23.03  
23.00  
26.09  
27.27  
27.29  
31.71  
33.41  
04. START PRGM RATE 1  
09. START FINAL TIME 1  
36.43  
37.57

*methoxychlor IS*

39.89

OUT OF PAPER

31 000866 \*  
027036

UCL

SAMPLE # 1 ID CODE 1  
56 R3574 6  
PESTICIDE MIX CALIBRATION CURVE  
D

Pest

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00		BASELINE @ START RUN = 311.93					
0.00		THRESHOLD @ START RUN = -1					
0.00		PEAK WIDTH @ START RUN = 0.00					
0.00		RP: REJECT + 1E+06					
3.50		RP: REJECT + 20					
5.88		22.14	BB	-----*		6.642E-04	
7.78		102.49	BB	0.092		3.075E-03	
10.16		273.57	BB	0.115		8.207E-03	
26.00		92.77	BY	*-----*		2.783E-03	
27.27		33.05	BB	-----*		9.915E-04	
39.89	39.89	21236.50 +	BB	0.242*	17	0.559	METHOXYCHLOR $\gamma$
48.02		35.15	BB	-----		1.054E-03	
50.00		RP: REJECT + 1E+06					

MULTIPLIER = 1

31 000867

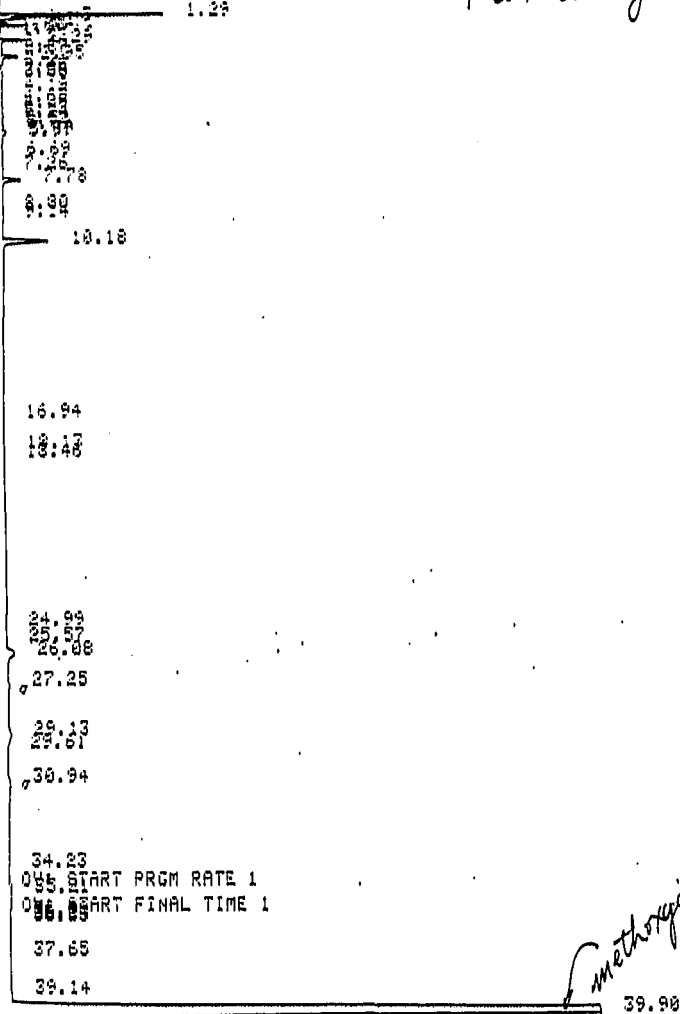
027037

101 CC

PR: AUTO SEQ

ETA: 07:54 MAR 13 1984  
ATTN # 275

R 3574 15%  
Peat Analysis



*methoxychlor IS*

48.80  
87. START BREATH RATE 20 CM/MIN  
91. START FINAL TIME 2  
95. STOP RUN

31 000868 x

027038

2670

MAR 13 1964

SAMPLE # 1 ID CODE 1  
87 R3574 15

*Pest*

PESTICIDE MIX CALIBRATION CURVE  
ESTD

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							
0.00							
0.00							
0.00							
3.50							
7.78							
10.18		82.66	BB	0.096		2.480E-03	
26.08		242.74	BB	0.117		7.282E-03	
27.25		88.50	BB	*-----*		2.655E-03	
29.13		28.82	BY	*-----*		8.645E-04	
39.90	39.90	44.26	BB	*-----*		1.328E-03	
48.80		17795.90 +	BB	0.242*	17	0.468	METHOXYCHLOR ✓
50.00		20.50	BB	-----		6.149E-04	

BASELINE @ START RUN = 311.19  
THRESHOLD @ START RUN = -1  
PEAK WIDTH @ START RUN = 0.08  
RP: REJECT → 1E+06  
RP: REJECT → 20

MULTIPLIER = 1

31 000869 \*

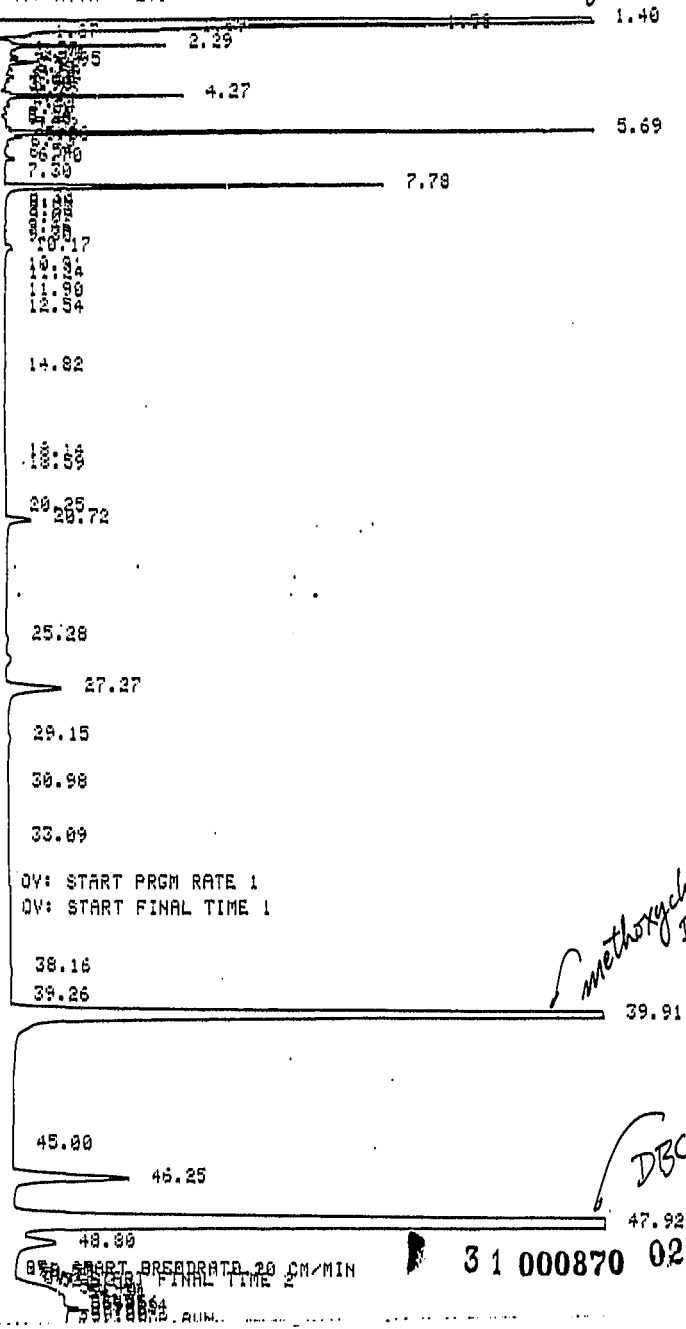
027039

100

PR: AUTO SEQ  
OVEN TEMP NOT READY

R 3574 50%  
Pest Analysis

MAR 13 1984  
ATTN: # 245



124

EXP 5880A SAMPLER INJECTION @ 08:54 MAR 13, 1984

SAMPLE # 1 13 0002 1

88 R3874 50

*Pest*

PESTICIDE MIX CALIBRATION CURVE  
(STD)

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							
0.00							
0.00							
0.00							
3.50							
3.52		195.70	VV	-----*		5.871E-03	
3.60		176.14	VV	-----		5.284E-03	
3.90		73.58	VV	-----		2.207E-03	
3.98	3.99	65.01	VV	-----	1	6.641E-03	<i>A-BAC (JW)</i>
4.15		124.47	VV	-----		3.734E-03	
4.27		661.49	VV	0.077		1.984E-02	
4.44		85.92	VV	-----		2.575E-03	
4.61		132.93	VV	-----		3.988E-03	
4.86		152.51	VV	-----*		4.575E-03	
5.14		75.04	VV	-----		2.251E-03	
5.26	5.25	70.26	VV	-----	4	5.877E-03	<i>A-BAC (JW)</i>
5.52		121.35	VV	*-----		3.540E-03	
5.69		1905.96	VV	0.069		5.718E-02	
5.88		144.30	VV	-----*		4.329E-03	
6.13		73.43	VV	-----		2.203E-03	
6.54		47.90	VV	-----		1.437E-03	
6.70		78.25	VV	-----		2.348E-03	
7.78		1635.06	BB	0.10 *		4.908E-02	
10.17		67.95	BB	*-----		2.038E-03	
20.72	20.78	208.19	BB	0.188	13	2.611E-02	<i>PP-BDD (JW)</i>
25.28		21.06	BB	-----*		6.319E-04	
27.27		646.54	BB	0.267*		1.940E-02	
29.15		40.08	BB	-----*		1.202E-03	
39.91	39.91	15986.30 +	PR	0.24 *	17	0.420	METHOXYCHLOR ✓
46.25		1460.35	BB	0.284*		4.381E-02	
47.92	47.97	32950.40	BV	0.284	18	2.460	DIBUTYLCHLOR ✓
48.00		651.09	VB	-----*		1.953E-02	
50.00							

RP: REJECT → 1E+06

MULTIPLIER = 1

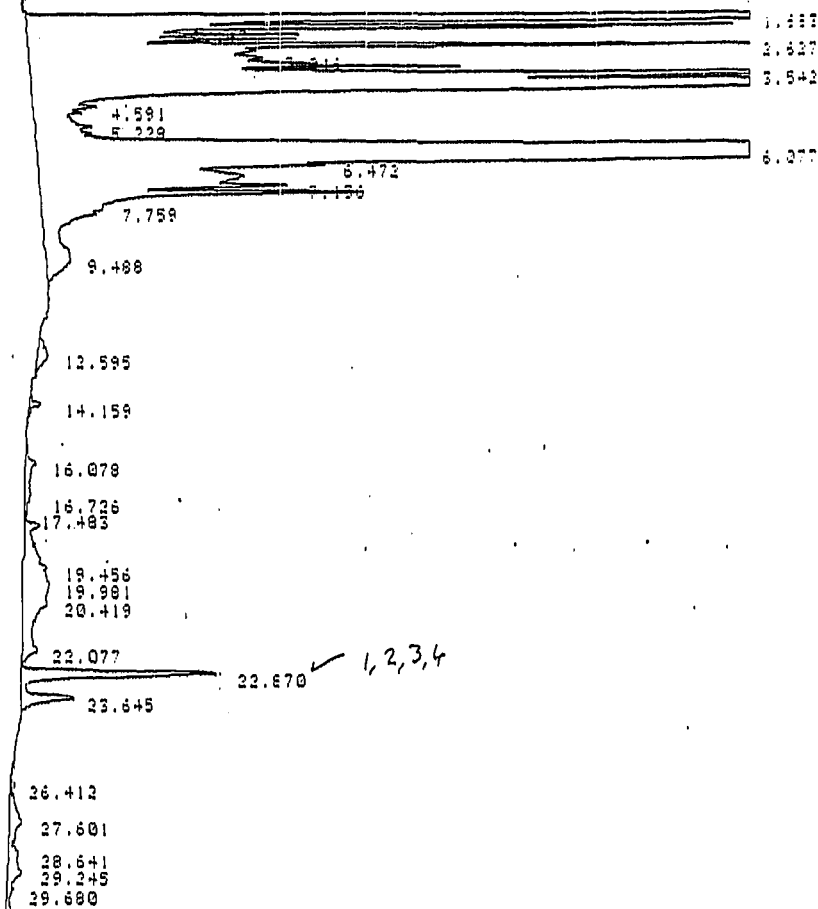
027041

31 000871 \*

135

R3574  
TCOD

CH SPEED 0.6 CM MIN  
N: 3+ DEFO: 5%



027042

31 Q00872



TITLE: CASE 3410 T000

DATE: 14 MAR 64

CHANNEL NO: 1 SAMPLE: F 3574 METHOD: T000

PEAK NO	RETENTION TIME (MIN)	RESULT	COUNTS	REF CODE
5	0.25	1.643	7230410	BV
6	0.35	1.004	195743	VV
7	0.34	2.067	194455	VV
8	0.23	2.147	47321	VV
9	0.61	2.269	126832	VV
10	0.18	2.364	37727	VV
11	0.57	2.443	118733	VV
12	1.96	2.617	407056	VV
13	0.47	2.720	98062	VV
14	0.47	2.823	97169	VV
15	1.09	3.046	227134	VV
16	0.93	3.217	183338	VV
17	0.86	3.318	178678	VV
18	5.15	3.542	1070930	VV
19	3.72	3.813	2031010	VV
20	0.25	4.551	52464	VV
21	0.16	4.761	33455	VV
22	0.45	5.228	32920	VV
23	0.21	5.446	44917	VV
24	27.03	6.077	5620900	VV
25	1.02	6.472	213047	VV
26	1.97	6.825	409371	VV
27	1.01	7.136	210294	VV
28	1.60	7.361	332820	VV
29	0.30	7.759	61713	VV
30	0.46	8.030	95238	VV
31	0.63	9.488	131970	VB
32	0.16	12.595	33030	BB
33	0.07	14.159	13841	BB
34	0.17	16.078	34610	BV
35	0.09	16.726	13319	VV
36	0.02	17.463	4210	VV
37	0.09	18.088	18699	VV
38	0.42	19.456	87651	VV
39	0.48	19.961	100272	VV
40	0.37	20.419	77763	VV
41	0.23	22.077	48171	VV
42	1.03	22.870	214720	VV
43	0.33	23.645	68150	VB
44	0.02	26.412	4313	BV
45	0.21	27.601	44364	VV
46	0.15	28.641	30310	VV
47	0.19	29.245	38735	VV
48	0.11	29.660	22793	VB

TOTALS: 100.01 20794600

MULTIPLIER: 1.00000

RACK: 8 VIAL: 5 INJ: 1

ERRORS: ADC OVERANGE

NOTES:  
 COLUMN: DB-S CAPILLARY  
 DETECTOR: ECD  
 OVEN TEMP PROGRAM: ISOTHERMAL @ 195°C  
 RUN TIME: 35.00 MINUTES  
 HE SPLITTER, HE CARRIER, H2 MAKEUP  
 DETECTOR TEMP: 300°C, INJECTOR TEMP: 250°C

31 000873

027043

Sample Number  
**R3579**

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: VERSAR INC. Case No: 2427  
 Lab Sample ID No: 5815 QC Report No: 2427  
 Sample Matrix: LOW LEVEL AQUEOUS Contract No: 68-01-6757 (825)  
 Data Release Authorized By: SLP Date Sample Received: 2-17-84

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW MEDIUM HIGH (circle one) <sup>u</sup>  
 DATE EXTRACTED/PREPARED: 2-17-84  
 DATE ANALYZED: 3-10-84  
 PERCENT MOISTURE:         
 CONC./DILUTION FACTOR: 1000

PP #	CAS #	Chemical Name	Conc. (ug/l or ug/kg) (circle one)	PP #	CAS #	Chemical Name	Conc. (ug/l or ug/kg) (circle one)
(21A)	88-06-2	2,4,6-trichlorophenol	10 u	(22B)	87-68-3	hexachlorobutadiene	10 u
(22A)	95-50-7	p-chloro-m-cresol	10 u	(23B)	77-47-8	hexachlorocyclopentadiene	10 u
(28A)	95-57-8	2-chlorophenol	10 u	(24B)	78-39-1	isophorone	10 u
(31A)	100-83-2	2,4-dichlorophenol	10 u	(25B)	91-20-3	naphthalene	10 u
(34A)	102-67-9	2,6-dimethylphenol	10 u	(26B)	98-95-3	nitrobenzene	10 u
(37A)	88-73-5	2-nitrophenol	20 u	(27B)	86-30-6	N-nitrosodiphenylamine	10 u
A)	100-02-7	4-nitrophenol	50 u	(28B)	621-69-7	N-nitrosodipropylamine	10 u
(59A)	51-28-3	2,4-dinitrophenol	50 u	(66B)	117-81-7	bis (2-ethylhexyl) phthalate	8k
(60A)	934-52-1	4,6-dinitro-2-methylphenol	20 u	(67B)	85-63-7	benzyl butyl phthalate	10 u
(64A)	87-86-5	pentachlorophenol	10 u	(68B)	88-78-2	di-n-butyl phthalate	10 u
(65A)	108-93-2	phenol	10 u	(69B)	117-82-0	di-n-octyl phthalate	10 u
	65-83-0	benzoic acid	8k	(70B)	84-66-2	diethyl phthalate	7k
	95-84-7	2-methylphenol	5 u	(71B)	131-11-3	dimethyl phthalate	10 u
	108-39-4	4-methylphenol	5 u	(72B)	56-35-3	benzo(a)anthracene	10 u
	95-95-4	2,4,5-trichlorophenol	100 u	(73B)	50-32-8	benzo(a)hvrene	20 u
(11B)	83-32-9	acenaphthene	10 u	(74B)	203-99-2	benzo(b)fluoranthene	20 u
(57B)	92-87-3	benzidine	40 u	(75B)	207-08-9	benzo(k)fluoranthene	20 u
(18B)	120-82-1	1,2,4-trichlorobenzene	10 u	(76B)	218-01-9	chrysene	20 u
(9B)	118-74-1	hexachlorobenzene	10 u	(77B)	208-96-8	acenaphthylene	10 u
(12B)	67-72-1	hexachloroethane	10 u	(78B)	120-12-7	anthracene	10 u
(13B)	111-84-8	bis(2-chloroethyl)ether	3k	(79B)	191-28-2	benzo(g)hperylene	20 u
(20B)	91-58-7	2-chloronaphthalene	10 u	(80B)	86-73-7	fluorene	10 u
(25B)	95-50-1	1,2-dichlorobenzene	10 u	(81B)	83-01-8	phenanthrene	10 u
(26B)	581-73-1	1,3-dichlorobenzene	10 u	(82B)	53-70-3	dibenzo(a,h)anthracene	20 u
(27B)	106-86-7	1,4-dichlorobenzene	7k	(83B)	193-39-5	indeno(1,2,3-cd)hvrene	20 u
(28B)	91-94-1	3,3'-dichlorobenzidine	20 u	(84B)	129-00-0	pyrene	10 u
(32B)	121-14-2	2,4-dinitrotoluene	20 u		62-53-3	aniline	5 u
(36B)	606-20-2	2,6-dinitrotoluene	20 u		100-51-6	benzyl alcohol	20 u
(37B)	122-66-7	1,2-dibenzylhydrazine	20 u		106-47-8	4-chloroaniline	50 u
7B)	206-44-0	fluoranthene	10 u		132-64-9	dibenzofuran	10 u
(40B)	7005-72-3	4-chlorobenzyl phenyl ether	10 u		91-57-6	2-methylnaphthalene	20 u
(41B)	101-52-3	4-bromobenzyl phenyl ether	10 u		88-78-4	2-nitroaniline	100 u
(42B)	39638-32-9	bis (2-chloroisopropyl) ether	20 u		99-09-2	3-nitroaniline	100 u
(43B)	111-91-1	bis (2-chloroethoxy) methane	20 u		100-01-6	4-nitroaniline	100 u

31 000827044

Sample Number  
**R35-74**

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: VERSAR INC.  
 Lab Sample ID No: 5815  
 Sample Matrix: LOW LEVEL AQUEOUS  
 Data Release Authorized By: AAO

Case No: 2427  
 QC Report No: 2427  
 Contract No: 68-01-6756 (8-4) - 68-01-6757 (825)  
 Date Sample Received: 2-17-84

VOLATILES

CONCENTRATION: (LOW) MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 2-21-84  
 DATE ANALYZED: 2-21-84  
 PERCENT MOISTURE: ---  
 CONC./DILUTION FACTOR: --- <sup>(ug/l)</sup>  
 or (ug/kg)

PP #	CAS #	Compound	Concentration
(2V)	107-02-8	acrolein	100 u
(3V)	107-13-1	acrylonitrile	100 u
(5V)	71-43-2	benzene	34.
(6V)	36-23-5	carbon tetrachloride	5 u
(7V)	108-90-7	chlorobenzene	5 u
(10V)	107-06-2	1,2-dichloroethane	1 u
(11V)	71-55-6	1,1,1-trichloroethane	5 u
(13V)	75-34-3	1,1-dichloroethane	7.
(14V)	79-00-9	1,1,2-trichloroethane	5 u
(15V)	79-34-5	1,1,2,2-tetrachloroethane	10 u
(1V)	75-00-3	chloroethane	16.
(19V)	110-75-8	2-chloroethylvinyl ether	10 u
(23V)	67-66-3	chloroform	5 u
(29V)	75-35-4	1,1-dichloroethene	5 u
(30V)	156-60-5	trans-1,2-dichloroethene	5 u
(32V)	78-87-5	1,2-dichloropropane	10 u
(33V)	10061-02-6	trans-1,3-dichloropropene	5 u
	10061-01-05	cis-1,3-dichloropropene	5 u
(38V)	100-41-4	ethylbenzene	5 u
(44V)	75-09-2	methylene chloride	n. k.
(45V)	74-87-3	chloromethane	10 u
(46V)	74-83-9	bromomethane	10 u
(47V)	75-25-2	bromoform	10 u
(48V)	75-27-4	bromodichloromethane	5 u
(49V)	75-69-4	fluorotrichloromethane	5 u
(50V)	75-71-8	dichlorodifluoromethane	5 u
(51V)	124-48-1	chlorodibromomethane	5 u
(85V)	127-18-4	tetrachloroethene	5 u
(86V)	108-88-3	toluene	5 u
(87V)	79-01-6	trichloroethene	5 u
(88V)	75-01-4	vinyl chloride	10 u
	67-64-1	acetone	27.
	78-93-3	2-butanone	5 u
	75-13-0	carbonylsulfide	1 u
	319-78-6	2-hexanone	5 u
	108-10-1	4-methyl-2-pentanone	5 u
	100-42-5	styrene	5 u
	108-05-4	vinyl acetate	5 u
	1330-20-7	total xylenes	27.

PESTICIDES

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 2-20-84  
 DATE ANALYZED: 2-13-84  
 PERCENT MOISTURE: NA  
 CONC./DILUTION FACTOR: 10 → 10 ml <sup>(ug/l)</sup>  
 or (ug/kg)

PP #	CAS #	Compound	Concentration
(89P)	309-00-2	aldrin	0.005u
(90P)	60-57-1	dieldrin	0.005u
(91P)	57-78-9	chlorodane	0.050u
(92P)	50-29-3	γ,δ-DDT	0.010u
(93P)	72-35-9	γ,δ-DDE	0.005u
(94P)	72-34-8	γ,δ-DDD	0.010u
(95P)	115-29-7	α-endosulfan	0.005u
(96P)	115-29-7	β-endosulfan	0.005u
(97P)	1031-07-8	endosulfan sulfate	0.010u
(98P)	72-20-8	endrin	0.005u
(99P)	7421-93-4	endrin aldehyde	0.010u
(100P)	76-44-8	heptachlor	0.005u
(101P)	1024-57-3	heptachlor epoxide	0.005u
(102P)	319-84-6	CC-BHC	0.005u
(103P)	319-85-7	β-BHC	0.005u
(104P)	319-86-8	δ-BHC	0.005u (1)
(105P)	58-89-9	γ-BHC (lindane)	0.005u
(106P)	53469-21-9	PCB-1242	0.050u
(107P)	11097-69-1	PCB-1254	0.100u
(108P)	11104-28-2	PCB-1221	0.100u
(109P)	11141-16-5	PCB-1232	0.100u
(110P)	12672-29-6	PCB-1248	0.100u
(111P)	11096-82-5	PCB-1260	0.200u
(112P)	12674-11-2	PCB-1016	0.050u
(113P)	8001-35-2	toxaphene	0.050u

*CI D-BHC FSCC ID, however could not confirm on packed column due to interference DIOXINS CC*

CONCENTRATION: (LOW) MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 2-20-84  
 DATE ANALYZED: 2-13-84  
 PERCENT MOISTURE: ---  
 CONC./DILUTION FACTOR: 1000 → 5 <sup>(ug/l)</sup>  
 or (ug/kg)

PP #	CAS #	Compound	Concentration
(129B)	1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.005u

31 000875  
 027045

July 1983

Sample Number  
23579

Laboratory Name: VERSAR INC. Case No: 2427  
QC Report No: 2427

A. Tentatively Identified Compounds

CAS #	Compound Name	Fraction	Scan No. or Retention Time	% Maximum Score Attained Mass Matching Routine (Specify)	Estimated Concentration (ug/L or ug/kg)
1.	75434 Nitroethane dachloro fluore-	VFA	172	98%	25. J
2.	60297 Ethane 1,1'-oxyfluor	VFA	298	91%	50. J
3.	109999 Fluoro tetrahydro-	VFA	278	72%	40. J
4.	1066406 Trimethyl sulfone	VFA	343	75%	10. J
5.	462955 Ethane 1,1,2-trifluoro-	VFA	467	97%	20. J
6.	—	VFA	58	—	25. J
7.	—	BNA	317	—	7. J
8.	107415 2,4-Dichloroethyl 2-methyl	BNA	592	987	19. J
9.	—	BNA	706	—	15. J
10.	107493 Diphosphoric Acid Tetraethyl	BNA	809	990	11. J
11.	698817 Cyclohexanonehexanoic	BNA	827	905	110. J
12.	76292 Bicyclo(2-2-1) Heptan-2-ol	BNA	842	900	48. J
13.	—	BNA	881	—	12. J
14.	—	BNA	909	—	25. J
15.	113492 2,5,8,11-Tetraoxadecane	BNA	937	947	26. J
16.	102602 2,4-Dichloroethyl Hexylalcohol	BNA	952	992	205. J
17.	143077 Dodecanoic Acid	BNA	1178	992	62. J
18.	—	BNA	1269	—	12. J
19.	64462 Tetradecanoic Acid	BNA	1319	993	9. J
20.	—	BNA	1367	—	42. J
21.	57103 Hexadecanoic Acid	BNA	1449	993	17. J
22.	—	BNA	1455	983	40. J
23.	—	BNA	1467	—	14. J
24.					
25.					
26.					
27.					
28.					
29.					
30.					

J = estimated conc.

027046

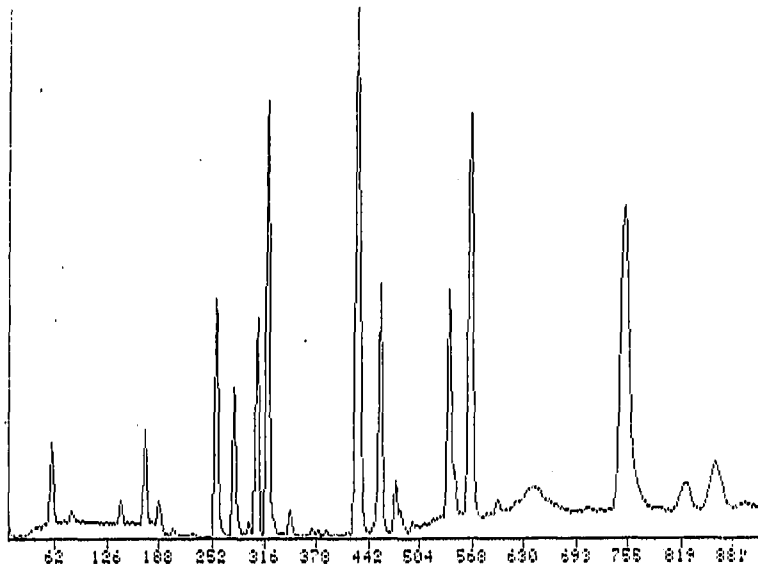
31 000876

NAME VOA SAMPLE#5815 ENL EPA#83579 DATE 2427  
 MISC 24992 33 10013 1758 2:21:34 MB:PM

MRN 24992

23806

TI



AREA TABLE ENTRIES: FRN 24992

Entry	Time	Mass	Area	% R.F. = conc. (M/L)
1	10.7	127.7	6498.	100.0
2	13.1	64.7	23815.	$366.5 \times 0.298 = 109.$
3	6.3	65.7	374.	$5.8 \times 2.75 = 16.$
<del>4</del>	<del>9.1</del>	<del>48.7</del>	<del>975.</del>	<del><math>13.5 \times 0.327 = 4.</math> Below Reporting Level</del>
5	8.8	42.7	951.	$14.6 \times 1.88 = 27.$
6	11.5	62.7	2495.	$38.7 \times 0.194 = 7.$

Qualif. 2  
 REPORT 3/2/94  
 MECL  
 IS  
 SS  
 chloroethane  
 methylbenzotrinitr  
 acetone  
 1,1-dichloroethane

Entry	Time	Mass	Area	%
1	18.5	76.7	10498.	100.0
2	17.3	83.7	37564.	$357.8 \times 0.308 = 110.$
3	17.4	77.7	19451.	$128.1 \times 0.262 = 34.$

IS  
 SS  
 benzene

CALCULATE % ON ENTRY #1

AREA TABLE ENTRIES: FRN 24992

Entry	Time	Mass	Area	%
1	21.6	54.7	14010.	100.0
2	22.5	97.7	27929.	$199.3 \times 0.434 = 86.$
<del>3</del>	<del>22.7</del>	<del>91.7</del>	<del>250.</del>	<del><math>2.9</math> Below Reporting Level</del>
4	29.9	94.7	29830.	$212.9 \times 0.412 = 90.$
5	32.5	105.7	1839.	$13.1 \times 0.681 = 9.$
6	33.9	105.7	3755.	$26.8 \times 0.681 = 18.$

OK 3/2/94

IS  
 SS  
 xylene  
 xylene

CALCULATE % ON ENTRY #1

31,000877

x  
 027047

VOA SAMPLES 315 SML EPA#R157A CASE 2427

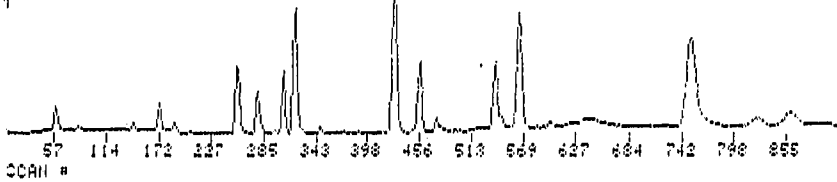
FRN 24992 CRN 31

24992 33 10019 1753 2 31 84 MB PH

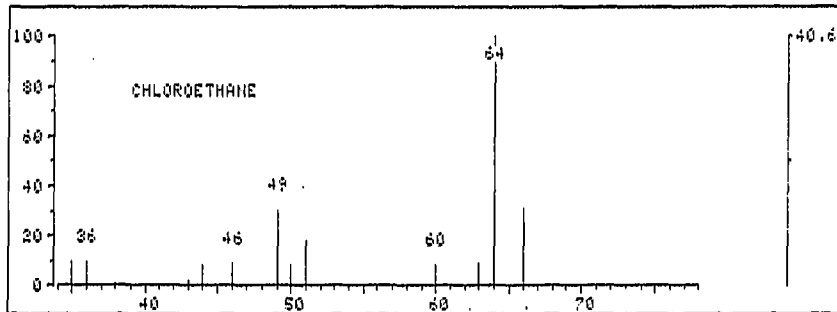
516 SCAN: 1 512 SCAN: 24.92 MIN:

1.0

MASS RANGE: 22.0, 209.2 TOTAL ABUND: 1649149



AVERAGED SPECTRUM \* BASE PK/ABUND: 64.1/ 32000. + 144 -135



31 000878

027043

VIA SAMPLE#5818 5ML EPA#R3579 CASE 3427

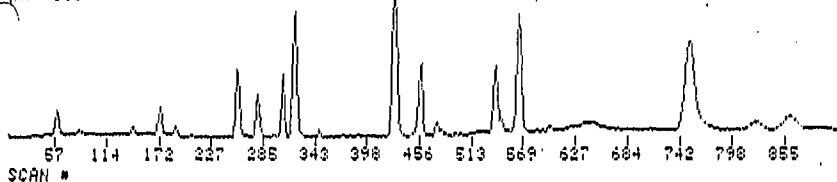
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24992 33 10019 1758 3-21-84 MB.FM

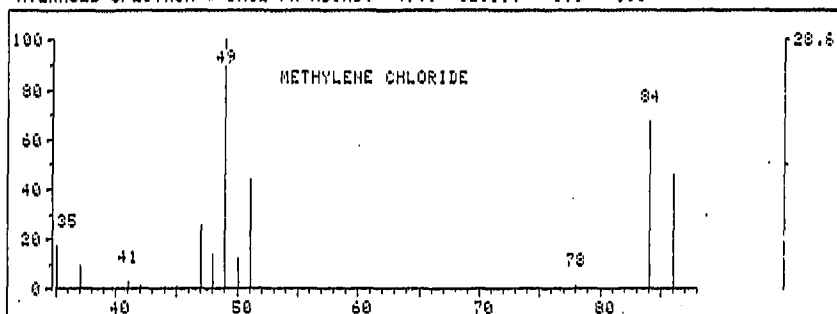
916 SCANS, 1 912 SCANS, 34.92 MINES

\* 1.0

MASS RANGE: 33.0, 209.2 TOTAL ABUND: 1845149.



AVERAGED SPECTRUM \* BASE PK/ABUND: 49.1/ 32000. \* 190 -182



31 000879

027043

VDA SAMPLE#8818 ENL EFAMR9579 CASE 2427

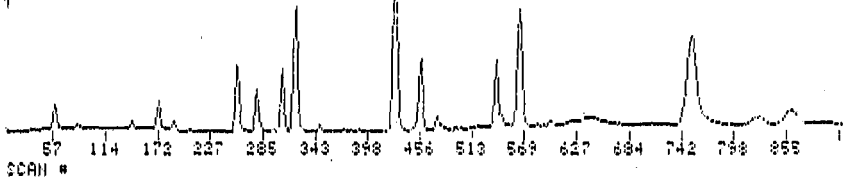
FRN 24991, CRN: 11

24992 33 10019 1758 2.21-24 NE PM

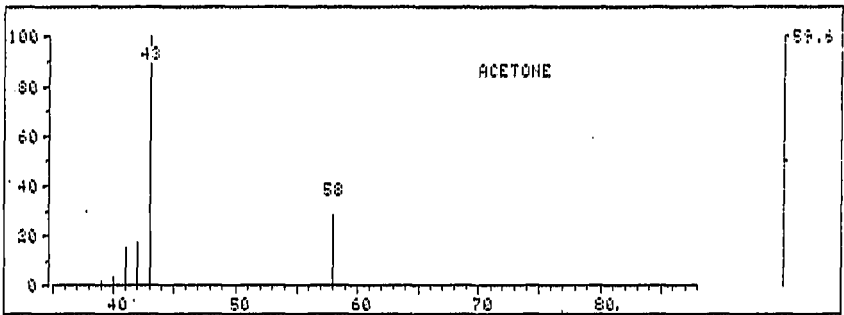
918 SCAN, 912 SCAN, 24.92 MIN

FX 1.0

MSD RANGE: 33.0, 209.2 TOTAL ABUND= 1648149



AVERAGED SPECTRUM \* BASE PK/ABUND: 43.1/ 32000, + 206 -201



31 000880 X

027050



VOR SAMPLE#5815 5ML EPA#R3579 CASE 2427

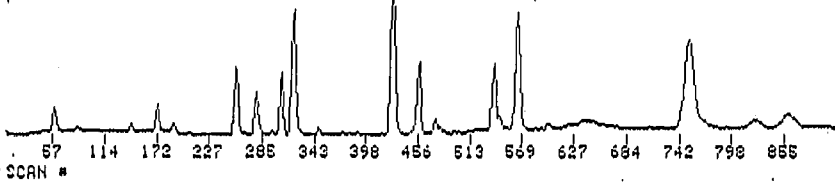
24992 33 10019 1758 2/21/84 NB/PM

916 SCANS ( 912 SCANS, 34.92 MINS)

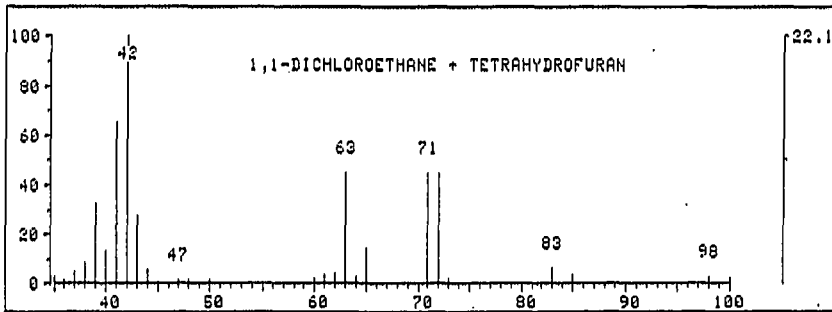
FRN 24992, CRN 33

PK 1.0

MASS RANGE: 39.0, 209.2 TOTAL ABUND= 1645149.



AVERAGED SPECTRUM \* BASE PK/ABUND: 42.2/ 32000. + 278 -270



PEAKS CO-ELUTE

BB 3/2/84

31 000881

027051

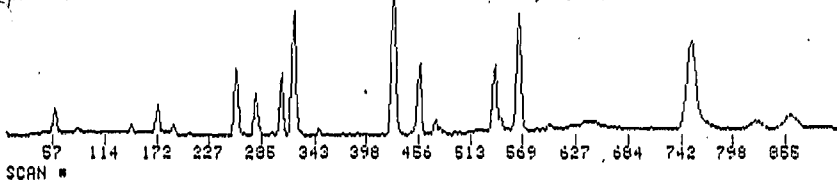
VOR SAMPLE#E815 ENL EPA#R3579 CASE 2427

24992 33 10019 1753 2/21/84 MB/PM

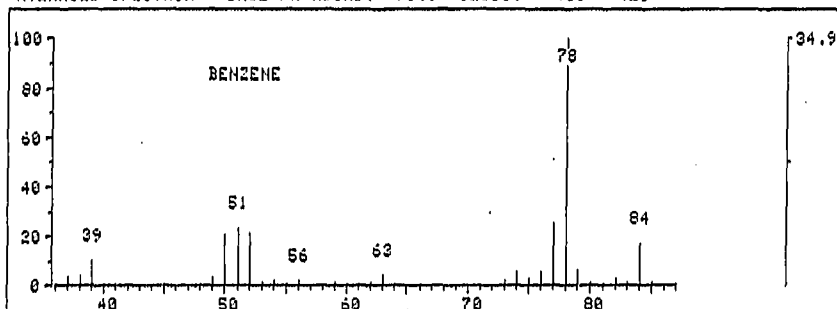
FRN 24992, CRN 33  
916 SCANS ( 912 SCANS, 34.92 MINS)

MASS RANGE: 33.0, 209.2 TOTAL ABUND= 1645149.

PK 1.0



AVERAGED SPECTRUM \* BASE PK/ABUND: 78.1/ 92000. + 431 -423



SPECTRA HAS  
SOME Benzene &c  
BB 3/2/84

31 000882

027052

VOA SAMPLE#6615 SML EPA#R3579 CASE 2427

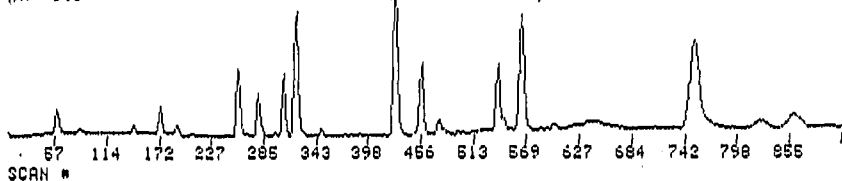
FRN 24992, CRN 33

24992 33 10019 1758 2/21/84 MB/PM

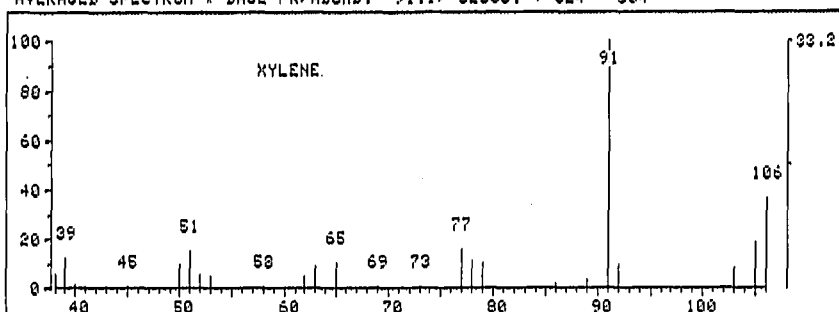
916 SCANS ( 912 SCANS, 34.92 MINS)

PK 1.0

MASS RANGE: 33.0, 209.2 TOTAL ABUND= 1645149.



AVERAGED SPECTRUM \* BASE PK/ABUND: 91.1/ 32000. + 824 -804



VOA SAMPLE#6615 SML EPA#R3579 CASE 2427

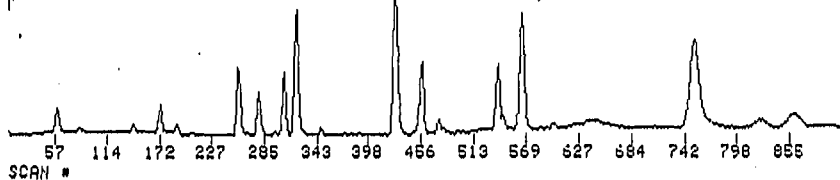
FRN 24992, CRN 33

24992 33 10019 1758 2/21/84 MB/PM

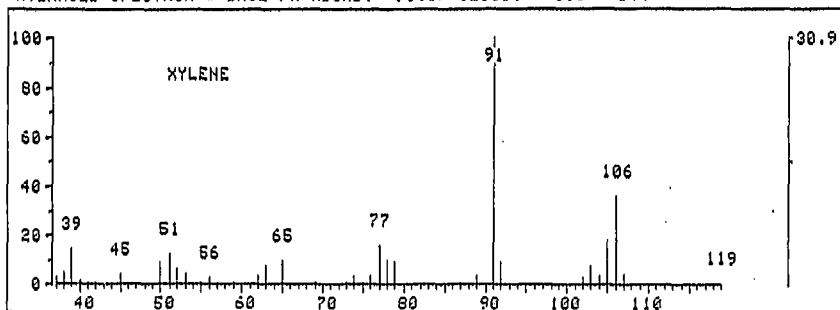
916 SCANS ( 912 SCANS, 34.92 MINS)

PK 1.0

MASS RANGE: 33.0, 209.2 TOTAL ABUND= 1645149.



AVERAGED SPECTRUM \* BASE PK/ABUND: 91.1/ 32000. + 868 -844



31 000883  
027053

(Similarity/Full Search) MH Range: 101- 1021

AVERAGED SPECTRUM FROM FRN 24992

+ 172 -165

25 PEAKS, 20 SIGNIFICANT MAX K 44.1

LIBRARY 3000 148 SPECTRA SEARCHED, 1 HIT(S)

.9770 + Methane, dichlorofluoro- (8C19C1)

SPEC# 1250 LSN# 1250. MW# 102 CHC12F

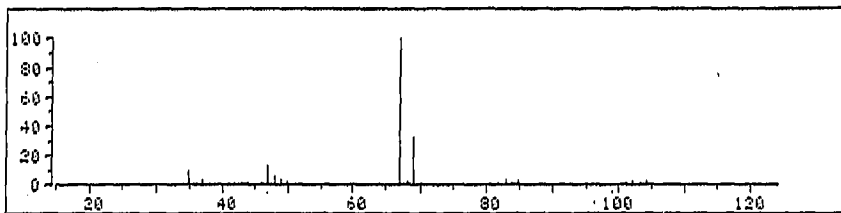
FRN # 3001 INDS 1250.1 CAS # 0000075434 EPA # 0000001234

MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX# 727

40.1 18 96% .0 0 0% .0 0 0% MULTIPLIER# 1.00

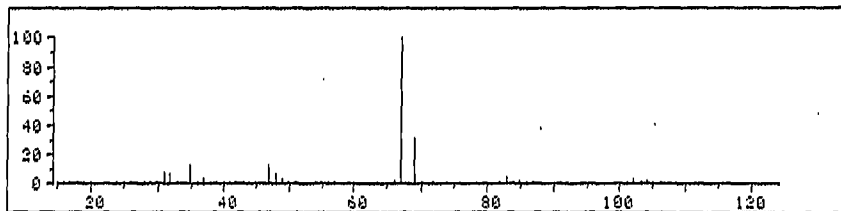
>PAUSE

1 HIT: AVERAGED SPECTRUM (FRN 24992) + 172 -165



8.8%

1 LFRN 3001 SPECT 1250 MW# 102 CHC12F  
.9770 Methane, dichlorofluoro- (8C19C1)



31 000884

027054

(Similarity/Full Search) MW Range: 74- 881

REF. SPECT # = 298 LSN = 298. MW = 0 FRN = 24992 RET. TIME = 12.5  
17 PEAKS, 12 SIGNIFICANT MAX K 27.5

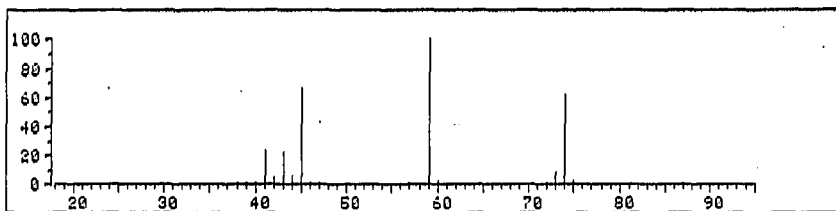
LIBRARY 3000 404 SPECTRA SEARCHED, 1 HIT(S)

.8686 + Ethane, 1,1'-oxybis- (9CI)

SPEC = 293 LSN = 293. MW = 74 C4H100  
FRN = 3001 INBS 293.1 CAS # 0000060297 EPA # 0000019182  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX = 728  
23.1 10 91% .0 0 0% 2.7 1 13% MULTIPLIER = 1.09

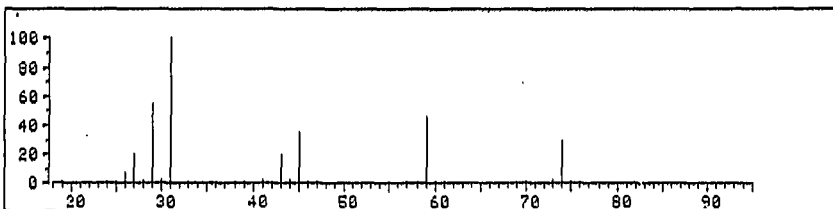
>PAUSE

1 HIT: REFERENCE FRN 24992 SCAN 298



100.0%

# 1 LFRN 3001 SPECT 293 MW = 74 C4H100  
.8686 Ethane, 1,1'-oxybis- (9CI)



31 000885

027055

[Similarity/Condensed Search] MW Range: 71- 73]

AVERAGED SPECTRUM FROM FRN 24992  
+ 278 -283

28 PEAKS, 25 SIGNIFICANT MAX K 24.7

LIBRARY 3000 55 SPECTRA SEARCHED, 4 HIT(S)

.9733 + Furan, tetrahydro- (8C19C1)

SPEC# 236 LSN# 236. MW# 72 C4H8O  
FRN = 3002 [NBS 236.] CAS # 0000109999 EPA # 0000019124  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX# 726  
17.3 7 72% .0 0 0% .0 0 0% MULTIPLIER= 1.00

.9707 + 1-Propene, 2-methoxy- (9C1)

SPEC# 237 LSN# 237. MW# 72 C4H8O  
FRN = 3002 [NBS 237.] CAS # 0000116110 EPA # 0000019135  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX# 655  
14.8 6 62% .0 0 0% .0 0 0% MULTIPLIER= 1.00

.9707 + Oxirane, 2,2-dimethyl- (9C1)

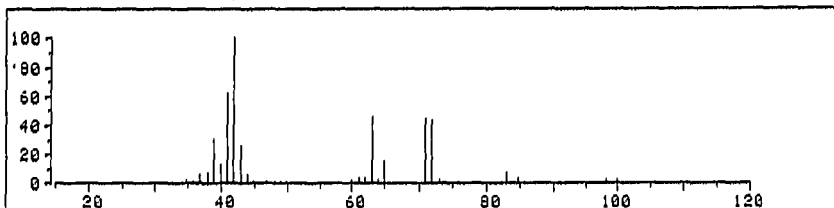
SPEC# 241 LSN# 241. MW# 72 C4H8O  
FRN = 3002 [NBS 241.] CAS # 0000558305 EPA # 0000019121  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX# 728  
14.8 6 62% .0 0 0% .0 0 0% MULTIPLIER= .74

.8232 + Oxirane, ethyl- (9C1)

SPEC# 234 LSN# 234. MW# 72 C4H8O  
FRN = 3002 [NBS 234.] CAS # 0000106887 EPA # 0000034327  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX# 655  
15.1 5 66% .0 0 0% 2.7 1 3% MULTIPLIER= .83

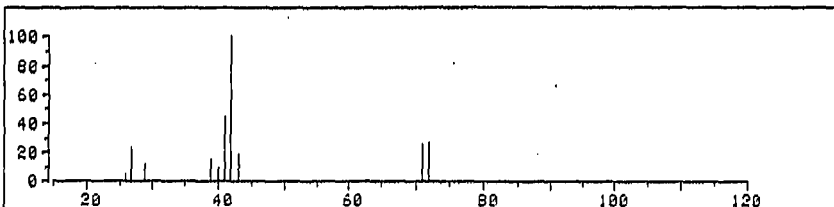
>PAUSE

4 HITS: AVERAGED SPECTRUM (FRN 24992) + 278 -283



45.6%

# 1 LFRN 3002 SPECT 236 MW# 72 C4H8O  
.9733 Furan, tetrahydro- (8C19C1)



31 000886 X  
027056

(Similarity/Condensed Search) MW Range: 88- 931

REF. SPECT # = 343 LSN = 343. MW = 90 FRN = 24992 RET. TIME = .4  
18 PEAKS, 17 SIGNIFICANT MAX K 23.9

LIBRARY 3000 145 SPECTRA SEARCHED, 5 HIT(S)

.9737 Silanol, trimethyl- (8CI9CI)  
SPEC# 693 LSN# 693. MW# 90 C3H10OS1  
FRN = 3002 INBS 693.1 CAS # 0001066406 EPA # 0000000734  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX = 563  
16.7 7 75% .0 0 0% .0 0 0% MULTIPLIER = 1.00

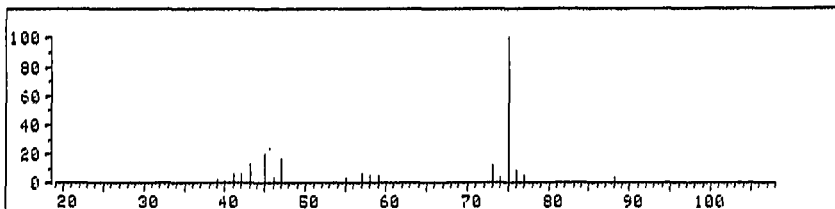
.8248 + Ethanol, 2-(ethenyloxy)- (9CI)  
SPEC# 649 LSN# 649. MW# 88 C4H8O2  
FRN = 3002 INBS 649.1 CAS # 0000764487 EPA # 0000000684  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX = 655  
16.0 7 29% .0 0 0% 2.9 1 14% MULTIPLIER = .42

.7695 + 1,4-Butanediamine (8CI9CI)  
SPEC# 631 LSN# 631. MW# 88 C4H12N2  
FRN = 3002 INBS 631.1 CAS # 0000110601 EPA # 0000000666  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX = 655  
11.2 5 19% .0 0 0% 2.9 1 18% MULTIPLIER = .53

.6954 ? Butanoic acid (9CI)  
SPEC# 638 LSN# 638. MW# 88 C4H8O2  
FRN = 3002 INBS 638.1 CAS # 0000107926 EPA # 0000000673  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX = 728  
13.6 6 28% 2.4 1 1% 2.9 1 23% MULTIPLIER = .53

.6906 + Propanoic acid, 2-methyl- (9CI)  
SPEC# 636 LSN# 636. MW# 88 C4H8O2  
FRN = 3002 INBS 636.1 CAS # 0000079312 EPA # 0000000672  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX = 728  
13.4 6 16% 2.4 1 7% 2.9 1 11% MULTIPLIER = .38

>PAUSE  
5 HITS; REFERENCE FRN 24992 SCAN 343



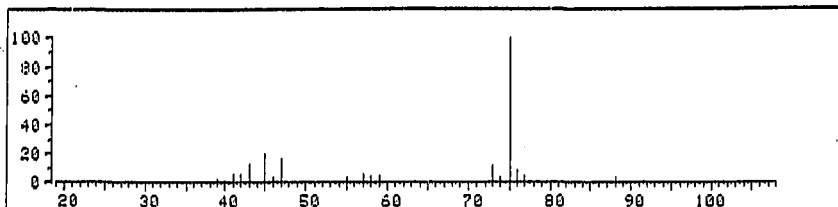
# 1 LFRN 3002 SPECT 693 MW# 90 C3H10OS1  
.9737 Silanol, trimethyl- (8CI9CI)



31 000887

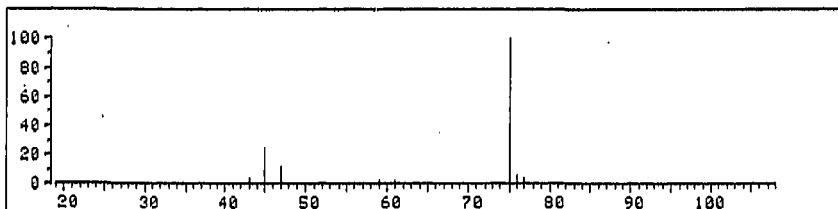
027057

5 HITS: REFERENCE FRN 24992 SCAN 343



12.6%

1 LFRN 3002 SPECT 693 MW= 90 C3H10OSi  
.9737 Silanol, trimethyl- (8C19C1)



31 000888

027058



(Similarity/Full Search) MW Range: 100- 1051

REF. SPECT # = 467 LSN = 467. MW = 0 FRN = 24992 RET. TIME = .5  
16 PEAKS, 14 SIGNIFICANT MAX K 32.4

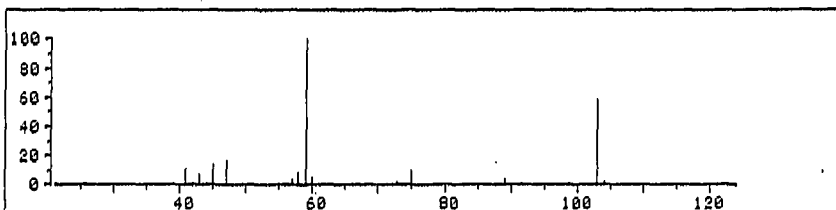
LIBRARY 3000 383 SPECTRA SEARCHED, 2 HIT(S)

.9765 + Ethane, 1,1'-(methylenebis(oxy))bis- (9CI)  
SPEC = 1399 LSN = 1399. MW = 104 C5H12O2  
FRN = 3001 (NBS 1399.) CAS # 0000462953 EPA # 0000001280  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX = 728  
27.9 12 97% .0 0 0% .0 0 0% MULTIPLIER = 1.37

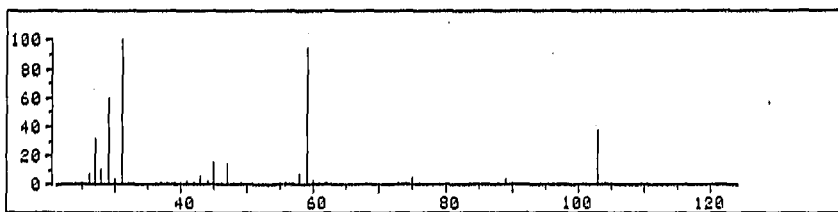
.6699 + 2-Propanol, 1-ethoxy- (8CI9CI)  
SPEC = 1402 LSN = 1402. MW = 104 C5H12O2  
FRN = 3001 (NBS 1402.) CAS # 0001569024 EPA # 0000001288  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX = 655  
24.9 11 64% 5.2 2 30% 5.8 2 77% MULTIPLIER = 1.71

>PAUSE

2 HITS; REFERENCE FRN 24992 SCAN 467

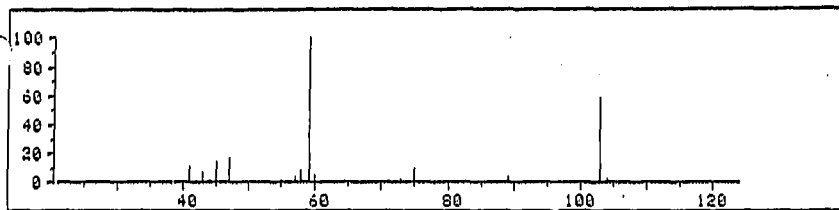


100.0%  
# 1 LFRN 3001 SPECT 1399 MW = 104 C5H12O2  
.9765 Ethane, 1,1'-(methylenebis(oxy))bis- (9CI)



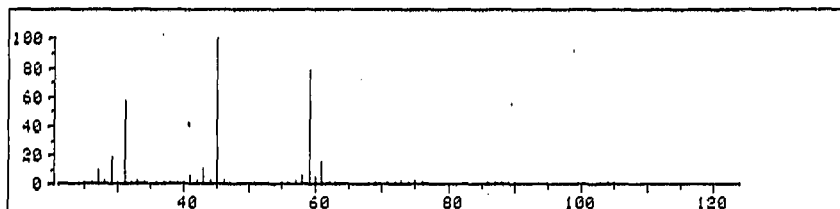
31 000889 X  
027059

2 HITS: REFERENCE FRN 24992 SCAN 467



85.7%

\* 2 LFRN 3001 SPECT 1402 MW= 104 CSH1202  
.6699 2-Propanol, 1-ethoxy- (8CI9CI)



31 000890

027060

[Similarity/Condensed Search: MW Range: 68- 120]

AVERAGED SPECTRUM FROM FRN 24992

+ 58 -52

18 PEAKS, 15 SIGNIFICANT MAX K 23.8

LIBRARY 3000 2448 SPECTRA SEARCHED, 3 HIT(S)

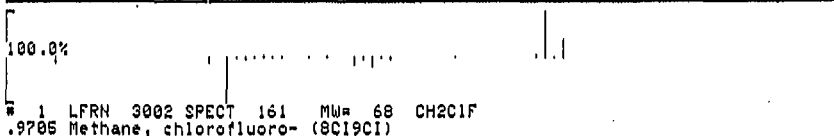
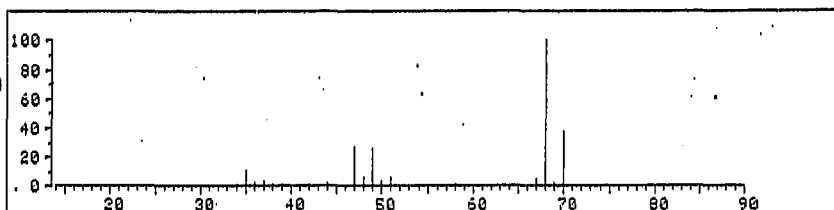
.9705 Methane, chlorofluoro- (8C19C1)  
SPEC# 161 LSN# 161. MW# 68 CH2CIF  
FRN # 3002 (NBS 161.) CAS # 0000593704 EPA # 0000019062  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX# 728  
13.8 6 33% .0 0 0% .0 0 0% MULTIPLIER# .36

.7609 Methane, chlorodifluoro- (8C19C1)  
SPEC# 525 LSN# 525. MW# 86 CHClF2  
FRN # 3002 (NBS 525.) CAS # 0000075456 EPA # 0000000624  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX# 724  
11.2 5 11% .0 0 0% 2.9 1 25% MULTIPLIER# .67

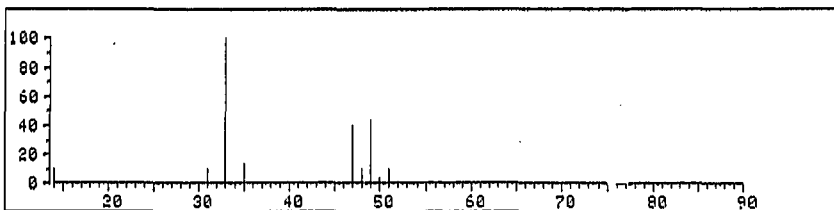
.6487 \* Nitrogen chloride fluoride (NC1F2) (8C19C1)  
SPEC# 599 LSN# 599. MW# 87 ClF2N  
FRN # 3002 (NBS 599.) CAS # 0013637871 EPA # 0000000549  
MATCHING PEAKS CONTAMINATED MISSING PEAKS QUAL INDEX# 481  
12.6 5 75% .0 0 0% 5.9 2 72% MULTIPLIER# .91

>PAUSE

3 HITS: AVERAGED SPECTRUM (FRN 24992) + 58 -52



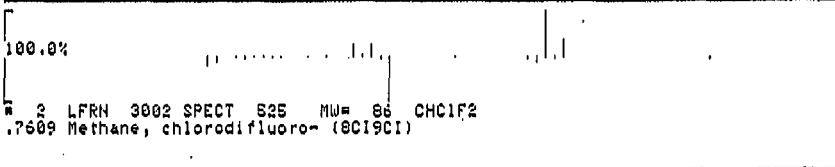
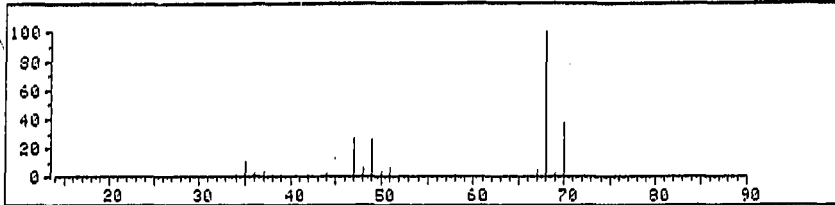
# 1 LFRN 3002 SPECT 161 MW# 68 CH2CIF  
.9705 Methane, chlorofluoro- (8C19C1)



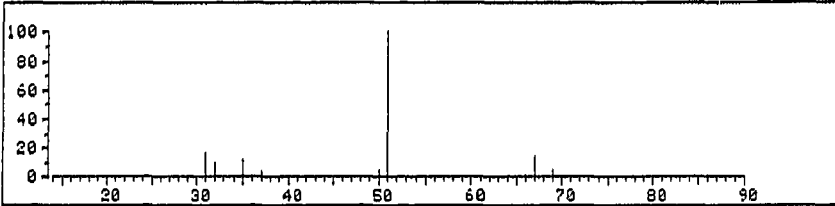
31 000891

027061

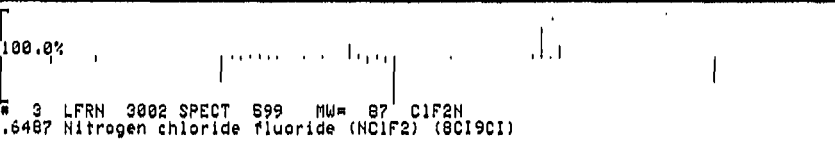
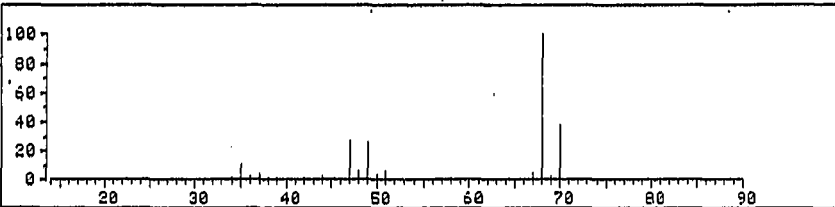
3 HITS: AVERAGED SPECTRUM (FRN 24992) + 58 -52



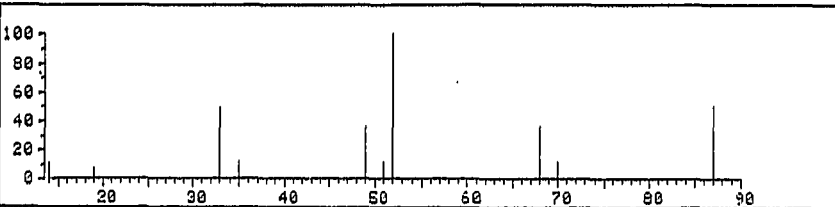
2 LFRN 3002 SPECT 525 MW= 86 CHClF2  
.7609 Methane, chlorodifluoro- (8C19C1)



3 HITS: AVERAGED SPECTRUM (FRN 24992) + 58 -52



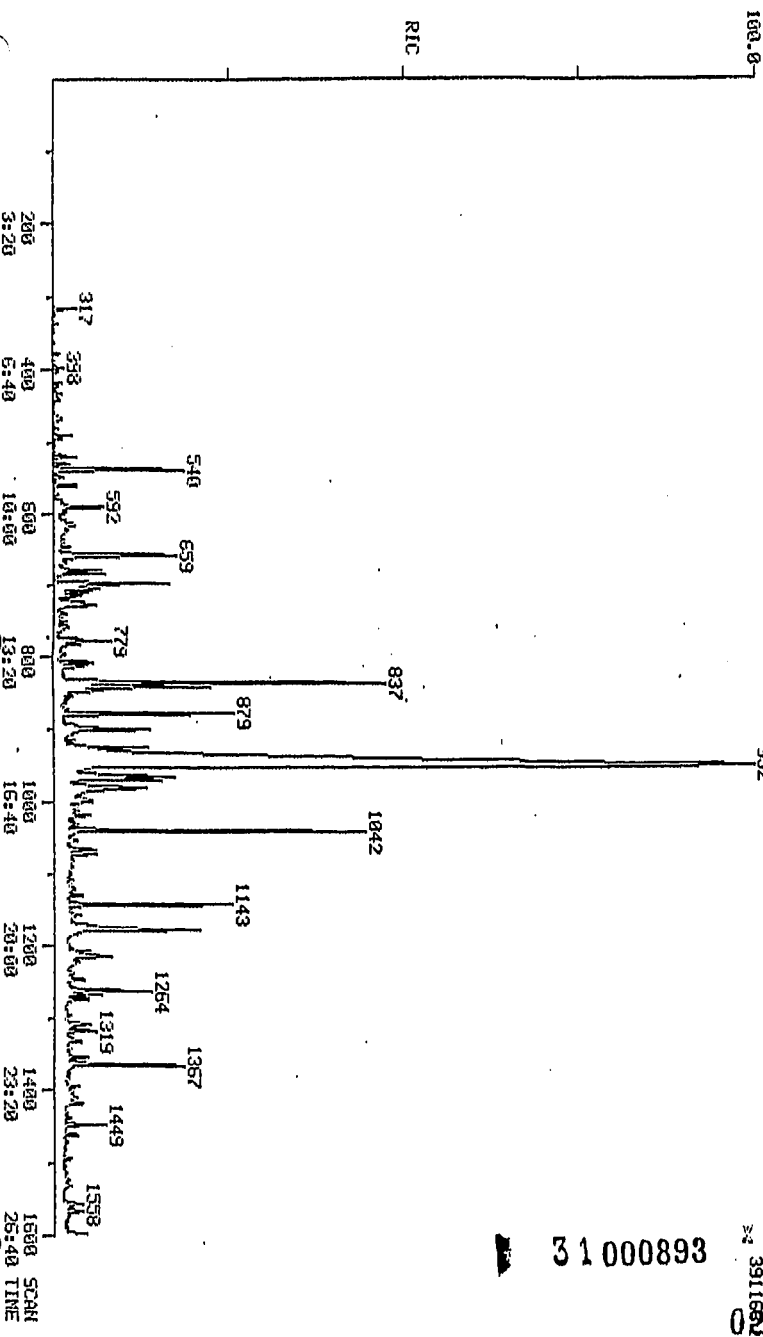
3 LFRN 3002 SPECT 599 MW= 87 ClF2N  
.6487 Nitrogen chloride fluoride (NC1F2) (8C19C1)



31

000892 X  
027062

RIC  
 03/10/84 19:38:08 DATE: 1240 #760  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL CALL: 1240 #3  
 COND.: SPB-5 30KHZ, 32MINID 1.6UMDF 30C/4MIN TO 280CE10C/MIN HOLD 26MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3  
 SCANS 1 TO 1600

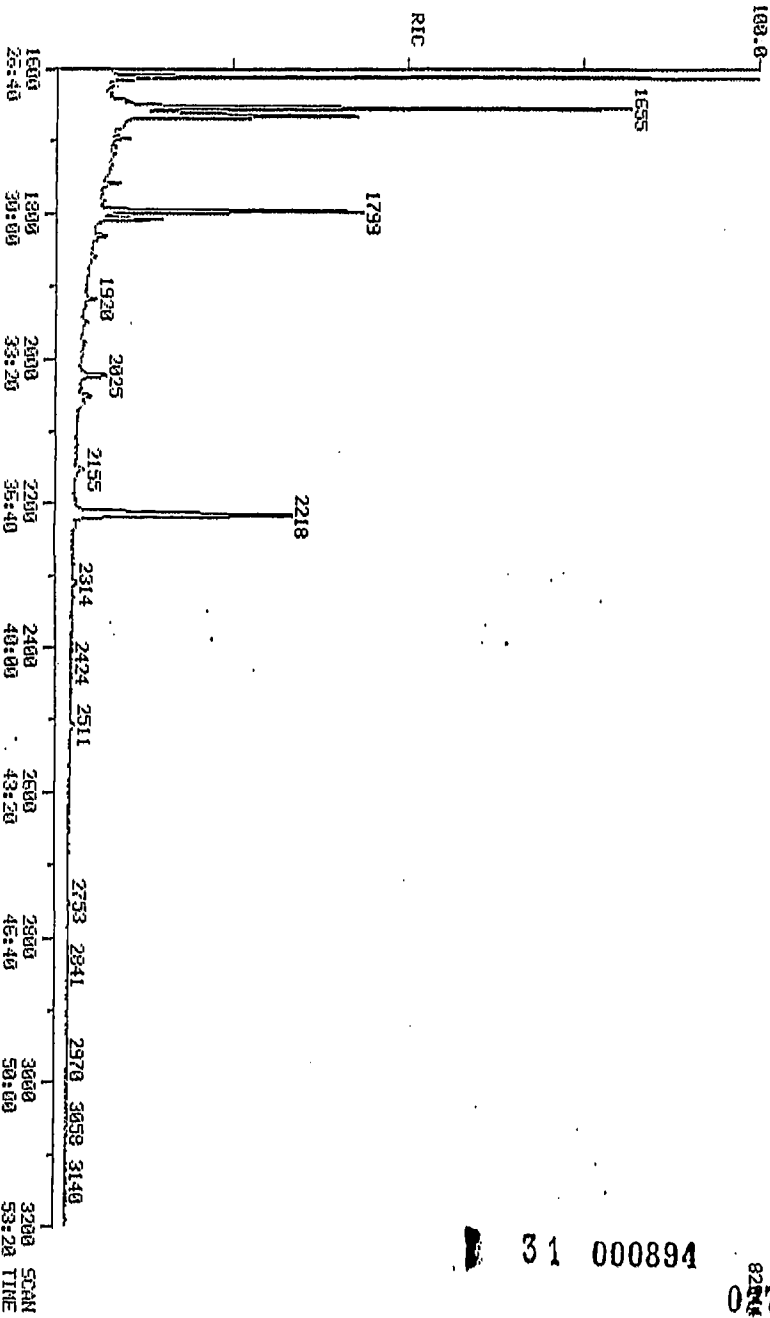


31000893

3911662  
 07063

RIC  
 03/10/94 19:38:00  
 SAMPLE: B10 SAMPLE R3579 CASE 2427 1.2UL  
 COND.: SFB-5 300#\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 28MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3

DATA: 1240 #760  
 CALI: 1240 #3  
 SCANS 1600 TO 3200



31 000894

047064

Quantitation Report File: 1240

Data: 1240.T1  
03/10/84 19:38:00  
Sample: BNA SAMPLE R3579 CASE 2427 1.2VL  
Submitted by: VERSAR Analyst: SEP

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

REVIEW.

5 DETECTED.

NO	NAME
1	1,4-DICHLOROBENZENE D4 ***INTERNAL STANDARD#1***
2	N-NITROSDIMETHYLAMINE
3	ANILINE
4	2-CHLOROPHENOL
5	PHENOL
6	BIS(2-CHLOROETHYL)ETHER
7	1,3-DICHLOROBENZENE
8	1,4-DICHLOROBENZENE
9	1,2-DICHLOROBENZENE
10	BENZYL ALCOHOL
11	BIS(2-CHLOROISOPROPYL)ETHER
12	2-METHYLPHENOL
13	HEXACHLOROETHANE
14	4-METHYLPHENOL
15	N-NITROSD-DI-N-PROPYLAMINE
16	NITROBENZENE
17	NAPHTHALENE D8 ***INTERNAL STANDARD#2***
18	ISOPHDRONE
19	2-NITROPHENOL
20	2,4-DIMETHYLPHENOL
21	BIS(2-CHLOROETHOXY)METHANE
22	2,4-DICHLOROPHENOL
23	1,2,4-TRICHLOROBENZENE
24	NAPHTHALENE
25	BENZOIC ACID
26	4-CHLOROANILINE
27	HEXACHLOROBTADIENE
28	4-CHLORO-M-CRESOL
29	2-METHYLNAPHTHALENE
30	ACENAPHTHENE D10 ***INTERNAL STANDARD#3***
31	HEXACHLOROCCYCLOPENTADIENE
32	2,4,6-TRICHLOROPHENOL
33	2,4,5-TRICHLOROPHENOL
34	2-CHLORONAPHTHALENE
35	2-NITROANILINE
36	ACENAPHTHYLENE
37	DIMETHYLPHTHALATE
38	2,6-DINITROTOLUENE
39	ACENAPHTHENE
40	3-NITROANILINE
41	2,4-DINITROPHENOL
42	DIBENZOFURAN
43	4-NITROPHENOL
44	2,4-DINITROTOLUENE
45	FLUORENE
46	4-CHLOROPHENYLPHENYLETHER
47	DIETHYLPHTHALATE
48	4-NITROANILINE
49	4,6-DINITRO-D-CRESOL
50	DIPHENYLAMINE

31 000895 \*

027065

1240

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	698	11:38	1	1.000	A BB	22791.	24.000 NG/UL	21.61
2	NOT FOUND								
3	NOT FOUND								
4	NOT FOUND								
5	NOT FOUND								
6	63	668	11:08	1	0.957	A VB	1666.	1.548 NG *1.67	1.39 = (3)
7	146	701	11:41	1	1.004	A BB	6561.	4.000 NG	3.60
8	148	701	11:41	1	1.004	A BB	4251.	3.894 NG *1.67	3.51 = (4)
9	146	726	12:06	1	1.040	A BB	407.	0.258 NG	0.23
10	79	721	12:01	1	1.033	A VB	549.	0.593 NG	0.53
11	45	742	12:22	1	1.063	A BB	1425.	0.780 NG	0.70
12	108	740	12:20	1	1.060	A BB	2944.	2.256 NG	2.03
13	NOT FOUND								
14	107	740	12:20	1	1.060	A BB	2424.	1.523 NG	1.37
15	43	752	12:32	1	1.077	A BB	628.	0.806 NG	0.73
16	NOT FOUND								
17	136	879	14:39	17	1.000	A BV	93679.	24.000 NG/UL	21.61
18	82	809	13:29	17	0.920	A BV	1952.	0.857 NG	0.77
19	NOT FOUND								
20	107	834	13:54	17	0.949	A BB	8561.	6.892 NG	6.21
21	NOT FOUND								
22	NOT FOUND								
23	NOT FOUND								
24	128	882	14:42	17	1.003	A BV	7871.	1.923 NG	1.73
25	105	894	14:54	17	1.017	A BV	3887.	4.751 NG *1.67	4.28 = (8)
26	NOT FOUND								
27	NOT FOUND								
28	NOT FOUND								
29	NOT FOUND								
30	144	1143	19:03	30	1.000	A BB	52207.	24.000 NG/UL	21.61
31	NOT FOUND								
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	65	1165	19:25	30	1.019	A BV	90.	0.250 NG	0.23
44	NOT FOUND								
45	NOT FOUND								
46	NOT FOUND								
47	149	1215	20:15	30	1.063	A BB	18957.	7.318 NG *1.67	6.59 = (7)
48	NOT FOUND								
49	NOT FOUND								
50	169	1243	20:43	30	1.087	A BV	1343.	1.436 NG	1.29

31 000896

027066



Quantitation Report File: 1240

Data: 1240.T1  
03/10/84 19:38:00  
Sample: RNA SAMPLE R3579 CASE 2427 1.2UL  
Submitted by: VERSAR Analyst: SEP

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

NO	NAME
51	PHENANTHRENE D10 ***INTERNAL STANDARD#4***
52	1,2-DIPHENYLHYDRAZINE
53	4-BROMOPHENYLPHENYLETHER
54	HEXACHLOROBENZENE
55	PENTACHLOROPHENOL
56	PHENANTHRENE
57	ANTHRACENE
58	DIBUTYLPHTHALATE
59	FLUORANTHENE
60	BENZIDINE
61	PYRENE
62	CHRYSENE D12***INTERNAL STANDARD#5***
63	BUTYL BENZYL PHTHALATE
64	BENZO(A)ANTHRACENE
65	CHRYSENE
66	3,3'-DICHLOROBENZIDINE
67	BIS(2-ETHYLHEXYL)PHTHALATE
68	BENZO(A)PYRENE D12 ***INTERNAL STANDARD#6***
69	DIOCTYLPHTHALATE
70	BENZO(B)FLUORANTHENE
71	BENZO(K)FLUORANTHENE
72	BENZO(A)PYRENE
73	INDENO(1,2,3-CD)PYRENE
74	DIBENZO(A, H)ANTHRACENE
75	BENZO(GHI)PERYLENE

31

000897

027067

1240

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	188	1367	22:47	51	1.000	A BB	76556.	24.000 NG/UL	22.94
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								
58	149	1463	24:23	51	1.070	A BV	10343.	3.834 NG	3.67
59	NOT FOUND								
60	NOT FOUND								
61	NOT FOUND								
62	240	1798	29:58	62	1.000	A BB	32179.	24.000 NG/UL	22.94
63	149	1693	28:13	62	0.942	A BB	358.	0.216 NG	0.21
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								
67	149	1810	30:10	62	1.007	A BB	7343.	4.571 NG/UL	4.37
68	264	2217	36:57	68	1.000	A BB	58108.	48.000 NG/UL	45.89
69	NOT FOUND								
70	NOT FOUND								
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								

31 000898

X  
027068

Quantitation Report File: 1240G

Date: 1240.T1  
 03/10/84 19:38:00  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL  
 Submitted by: VERSAR Analyst: SEP

AMOUNT=AREA \* REF.AMNT/(REF.AREA)\* RESP.FACT)\* 1.670  
 Resp: fac. from linear fit to the 3 closest data points in .RL

- NO NAME
- 1 1,4-DICHLOROBENZENE D4 \*\*\*INTERNAL STANDARD#1\*\*\*
  - 2 2-FLUOROPHENOL \*ACID SURROGATE\*
  - 3 PHENOL D5 \*ACID SURROGATE\*
  - 4 NAPHTHALENE D8 \*\*\*INTERNAL STANDARD#2\*\*\*
  - 5 NITROBENZENE D5 \*BN SURROGATE\*
  - 6 ACENAPHTHENE D10 \*\*\*INTERNAL STANDARD#3\*\*\*
  - 7 2-FLUOROBIPHENYL \*BN SURROGATE\*
  - 8 PHENANTHRENE D10 \*\*\*INTERNAL STANDARD#4\*\*\*
  - 9 2,4,6-TRIBROMOPHENOL \*ACID SURROGATE\*
  - 10 CHRYSENE D12\*\*\*INTERNAL STANDARD#5\*\*\*
  - 11 P-TERPHENYL D14 \*BN SURROGATE\*

No	m/z	Scan	Time	Ref	RRT	Meth	Area (Hght)	Amount	%Tot
1	152	698	11:38	1	1.000	A BB	22791.	40.080 NG/UL	7.19
2	112	540	9:00	1	0.774	A BV	61045.	63.814 NG	11.45
3	99	659	10:59	1	0.944	A BB	84685.	62.067 NG	11.13
4	136	879	14:39	4	1.000	A BV	93679.	40.080 NG/UL	7.19
5	82	779	12:59	4	0.886	A BV	19392.	59.222 NG	10.62
6	164	1143	19:03	6	1.000	A BE	32207.	40.080 NG/UL	7.19
7	172	1042	17:22	6	0.912	A BV	128621.	59.296 NG	10.64
8	188	1367	22:47	8	1.000	A BB	76556.	40.080 NG/UL	7.19
9	330	1263	21:03	8	0.924	A BB	21336.	61.207 NG	10.98
10	240	1798	29:38	10	1.000	A BB	32179.	40.080 NG/UL	7.19
11	244	1613	26:33	10	0.897	A VB	75666.	51.444 NG	9.23

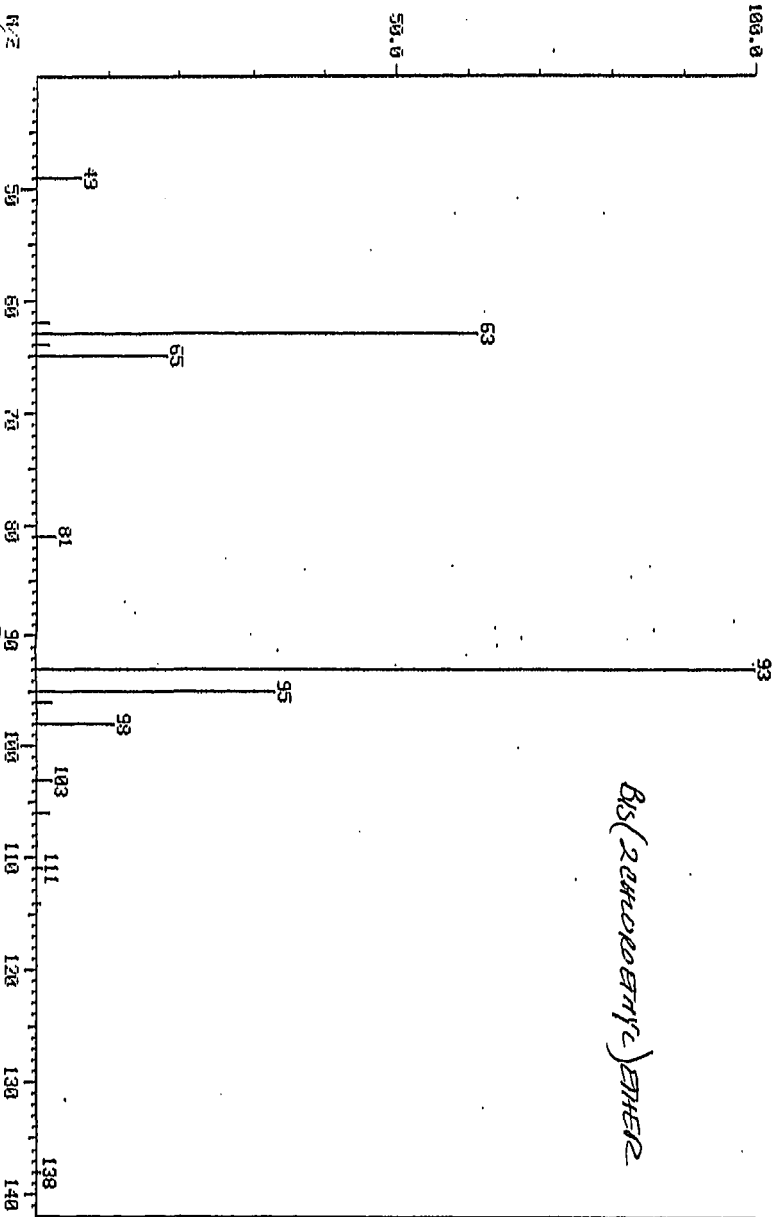
31 000899 027063

MASS SPECTRUM  
03/10/84 19:38:00 + 11:08  
SAMPLE: BRQ SAMPLE R3579 CASE 2427 1-2U  
COND.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C10C/4MIN HOLD 25MIN  
ENHANCED (S 158 2N 01)

DATA: 1240 #568  
CALL: 1240 #3

BASE M/Z: 93  
RIC: 2520.

*Bis(2-аминопропанол)этилен*



31 000900

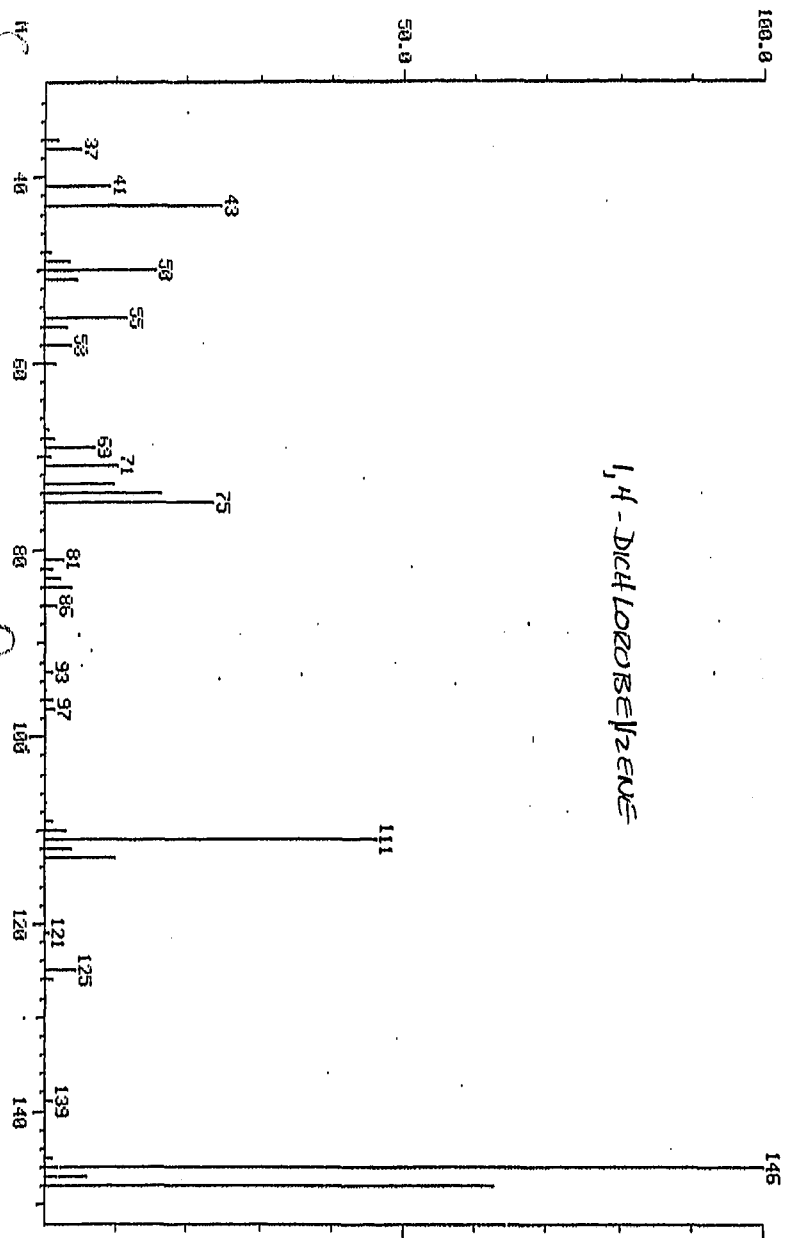
187070

MASS SPECTRUM  
03/10/84 13:38:00 + 11:41  
SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
COND.: SP8-5 30HX0.32MMID 1.6UMDF 30C/4MIN TO 280C@10C/MIN HOLD 20MIN  
ENHANCED (S 158 2X 0T)

DATA: 1240 #701  
CALL: 1240 #3

BASE M/Z: 146  
R1C: 10384.

*1,4-Dichlorobenzene*



31 000901 X

027071

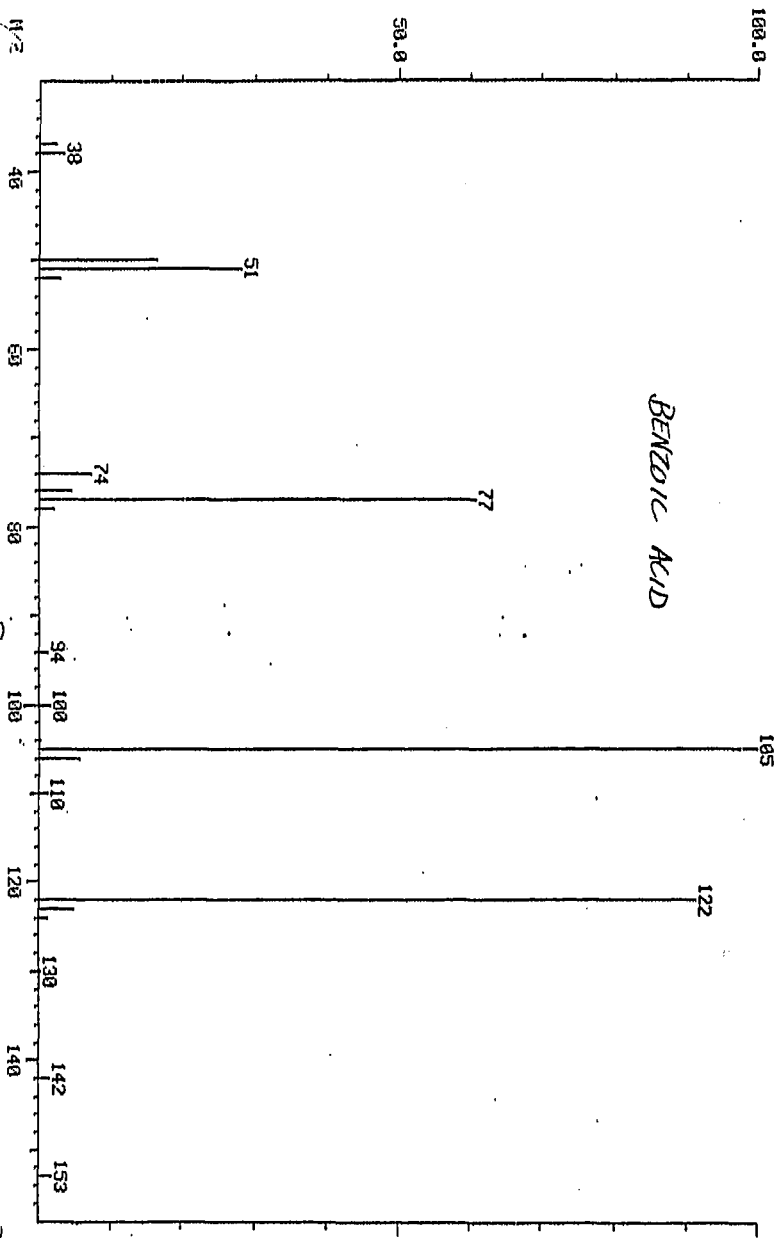
2528.

MASS SPECTRUM  
03/10/84 19:38:00 + 14:54  
SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
CONDS.: 5PB-5 30MM0.32MMID 1.0UMDF 38C/4MIN TO 280C/10C/MIN HOLD 25MIN  
ENHANCED (S ISB ZN 01)

DATA: 1240 #894  
CALL: 1240 #3

BASE M/Z: 105  
RIC: 3280.

BENZOIC ACID



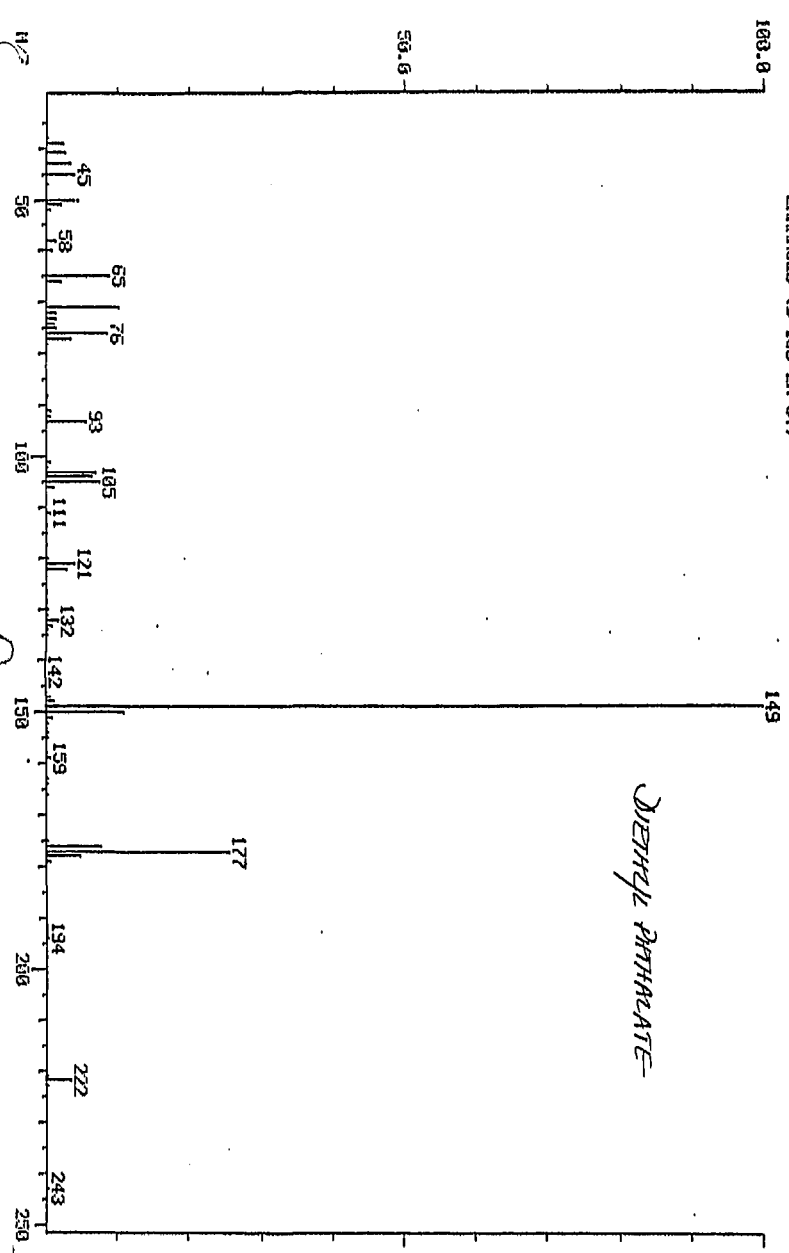
31 000902 960 027072

MASS SPECTRUM  
 03/10/84 19:38:00 + 20:15  
 SAMPLE: BKA SAMPLE R3579 CASE 2427 1.2UL  
 COND.: SP-5 30KX0.32MMID 1.00RDF 30C/4MIN TO 280C/10C/MIN HOLD 26MIN  
 ENHANCED (S 15B 2N 01)

DATA: 1240 #1215  
 CELL: 1240 #3

BASE M/Z: 149  
 RIC: 16640.

*Diethyl pyrimate*



027073

31 000903

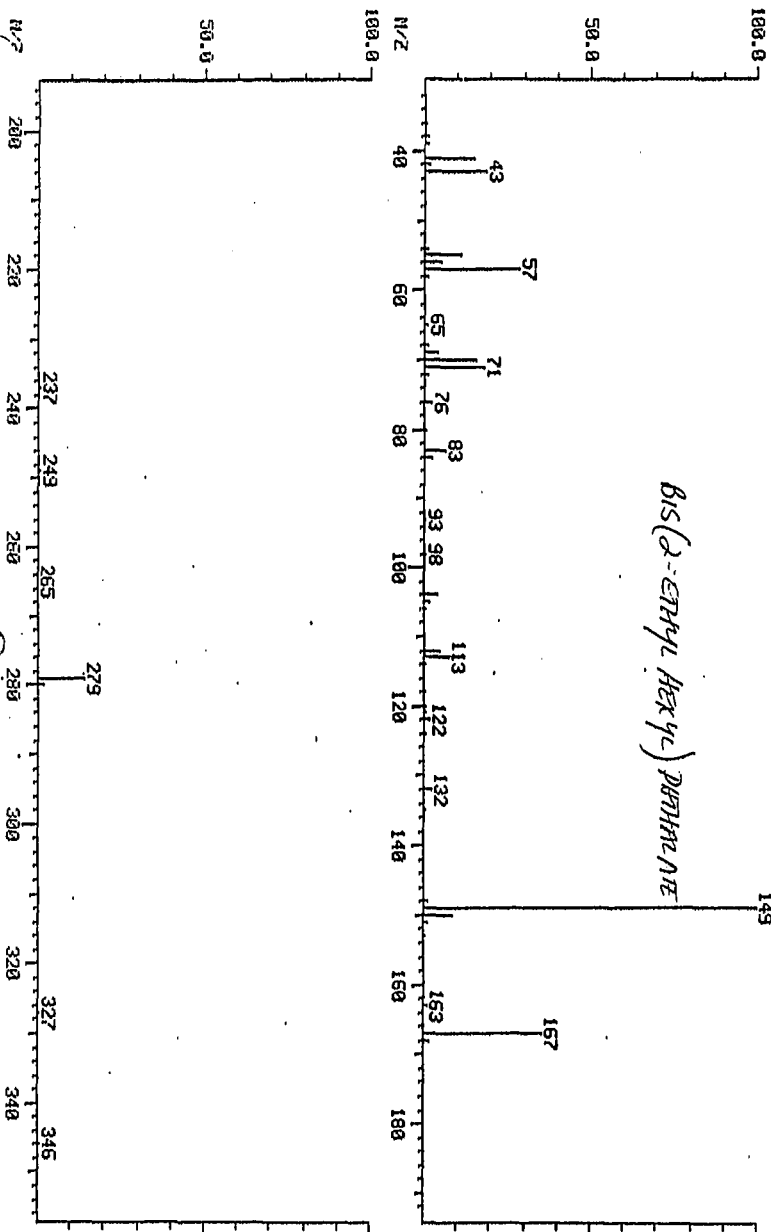
6368.

MASS SPECTRUM  
03/18/84 19:38:00 + 30:10  
SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
CONDOS.: SFB-5 30MIN@ 1.0UMDF 300/4MIN TO 280C@10C/MIN HOLD 26MIN  
ENHANCED (S 15B 2M 0T)

DATA: 1240 #1810  
CALL: 1240 #3

BASE M/Z: 149  
RIC: 5720.

*Bis(2-ethylhexyl)phthalate*



027074

31 000904

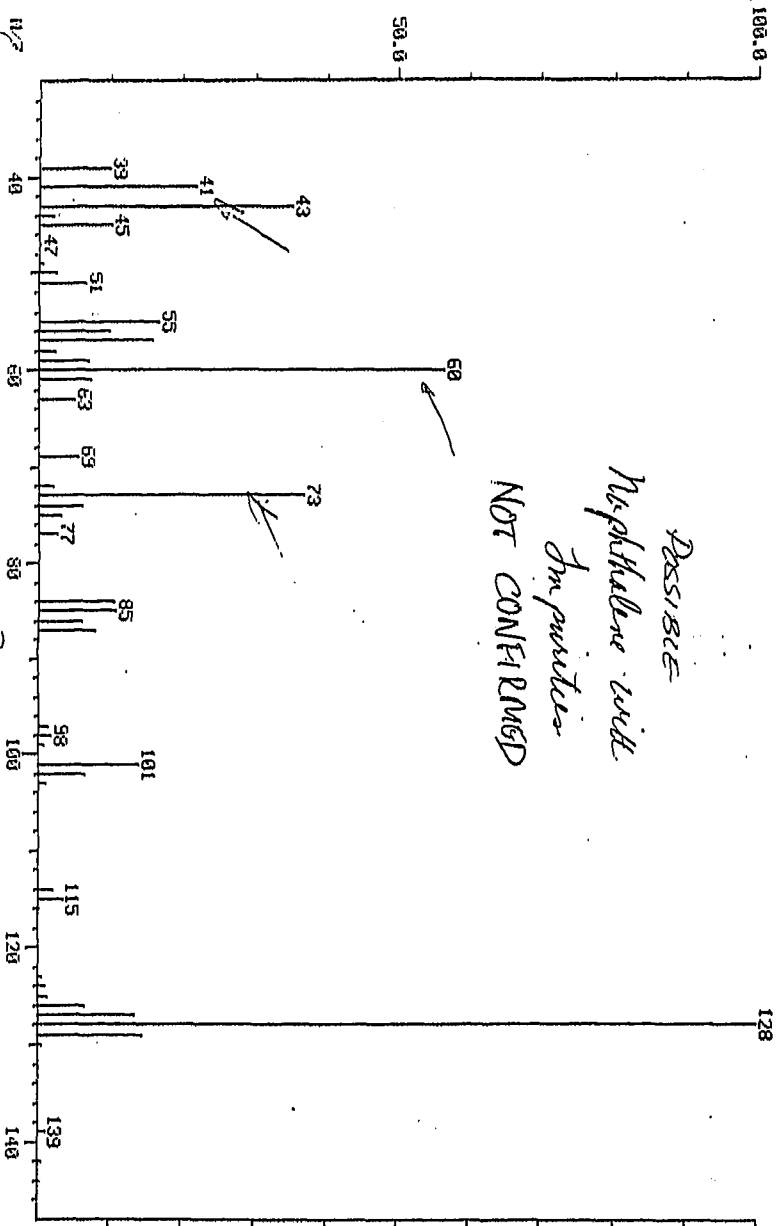
2010.



MASS SPECTRUM  
03/10/84 13:38:00 + 14:42  
SAMPLE: BRK SAMPLE R3579 CASE 2427 1.2UL  
COND.: SPB-5 30MM\*0.32MMID 1.0UMIDF 30C/4MIN TO 280C@18C/MIN HOLD 25MIN  
ENHANCED (S 158 2N 0T)

DATA: 1240 #882  
CALL: 1240 #3

BASE M/Z: 128  
R1C: 14800.



*PASSIVE*  
*Naphthalene with*  
*impurities*  
*NOT CONFIRMED*

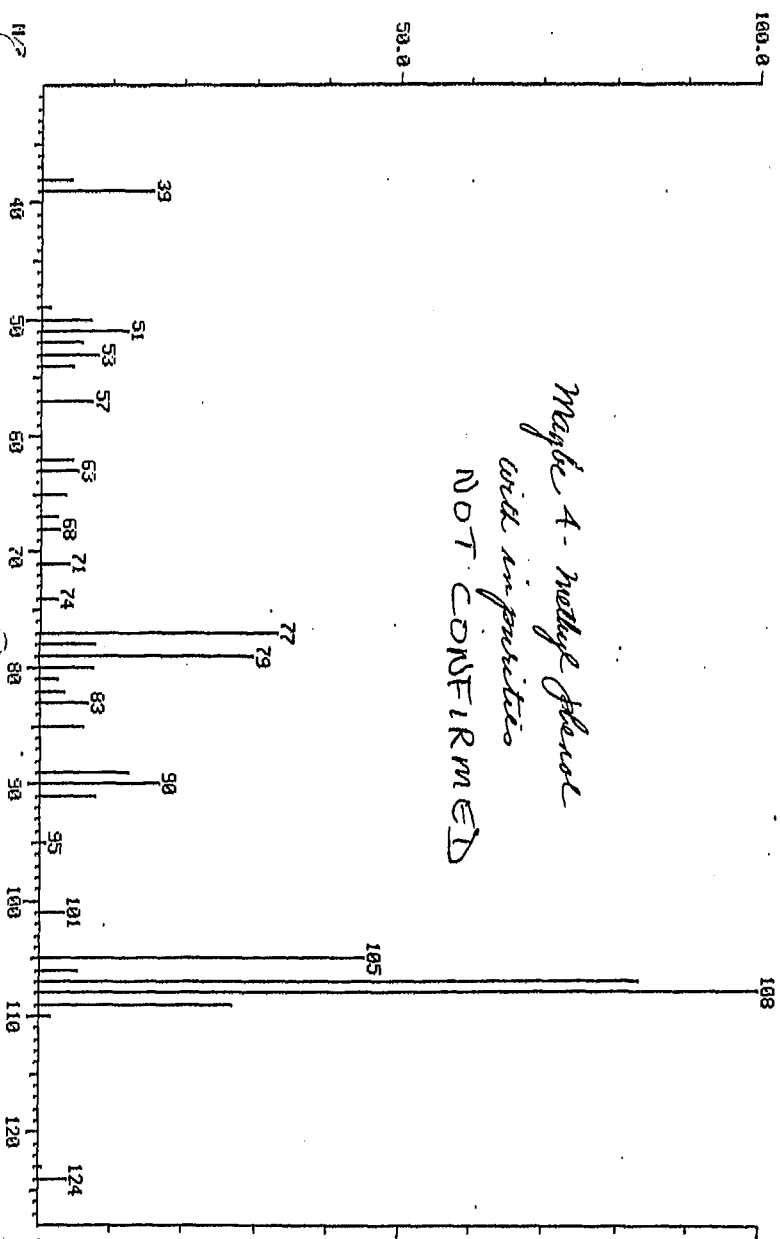
31 000905 027075

MASS SPECTRUM  
 03/10/84 19:38:00 + 12:20  
 SAMPLE: BIA SAMPLE R3579 CASE 2427 1.2UL  
 COND5.: SP8-5 308K0.32NMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 198 2N 0T)

DATA: 1240 #740  
 CRT1: 1240 #3

BASE M/Z: 108  
 RIC: 3884.

*Maybe 4-methyl phenol  
 with impurities  
 NOT CONFIRMED*



31 000906

027076

781.

Library Search                      Data: 1240 # 317                      Base m/z: 88  
 13/10/94 19:38:00 + 5:17              Cali: 1240 # 3                      RIC: 8472  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL                      1265  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280CC@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT)

38752 spectra in LIBRARYND searched for maximum PURITY  
 83 matched at least 7 of the 16 largest peaks in the unknown

Rank In.	Name
1	697 1,2-ETHANEDIAMINE, N,N-DIMETHYL-
2	700 1,2-ETHANEDIAMINE, N-ETHYL-
3	8720 HEPTANOIC ACID, 2-METHYL-, METHYL ESTER
4	10990 OCTANOIC ACID, 2-METHYL-, METHYL ESTER
5	4125 1-BUTANAMINE, N-ETHYL-N-NITROSO-

UNKNOWN

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C4. H12. N2	88	98	596	638	607
2	C4. H12. N2	88	98	578	665	593
3	C9. H18. O2	158	88	518	707	673
4	C10. H20. O2	172	88	501	684	673
5	C6. H14. O. N2	130	98	481	499	576

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	108-00-9
2	---	---	---	---	110-72-5
3	---	---	---	---	51209-78-0
4	---	---	---	---	2177-86-8
5	---	---	---	---	4549-44-4

Mass	Inten	1	2	3	4	5
27		13		128	112	
29		23		143	136	
30		155				168
39				112	96	
40		11	4			
41	12	24	11	223	220	202
42	48	142	33	79	70	293
43	241	41	14	136	150	173
44	87	49	38			122
49	10					
54			4			
55	12		2	104	103	55
56	9	19	13	65	54	307
57	208	24		248	148	365
58	611	695	643			367
59	25	28	29	110	96	
69			2	56	60	
70		5	2			
71		4	4		73	29
72			6			
75						29
84	9					45
85	5					
86	11					
87	90			79	65	89
88	1000	66	74	1010	1022	108
89	34	4	35			
99				19		
101				221	231	11
102				17		
113						23

31 0009077

115  
127  
129  
130  
131  
141  
143  
157  
158  
172

36 30  
27 16  
6 20  
2 12  
2 1  
2

100  
8

31 000908  
027078

LIBRARY SEARCH  
 83/10/84 19:38:00 + 5:17  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2U  
 COND.: SPB-S 30MR0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 20MIN  
 ENRANCED CS 15B 2N 017

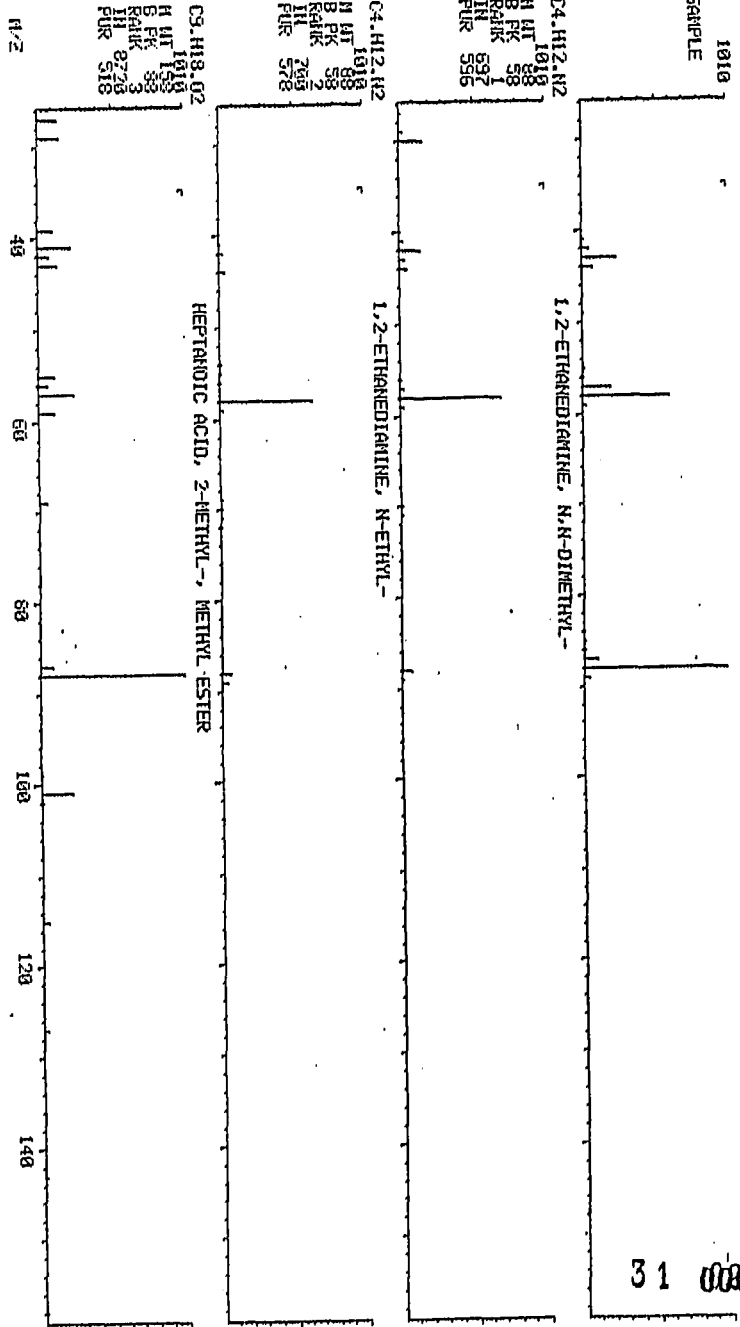
DATA: 1240 # 317  
 CALL: 1240 # 3  
 BASE M/Z: 88  
 RIC: 8473.

1010  
 SAMPLE

C4.H12.N2  
 N UT 10 48  
 B PK 58  
 RALK 51  
 TN 597  
 PUR 596

C4.H12.N2  
 N UT 10 48  
 B PK 58  
 RALK 51  
 TN 597  
 PUR 596

C9.H18.O2  
 N UT 10 48  
 B PK 58  
 RALK 51  
 TN 597  
 PUR 596



31 000000

Library Search                      Data: 1240 # 592                      Base m/z: 59  
 03/10/84 19:38:00 + 9:52              Cali: 1240 # 3                      RIC: 23615.19  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT)

38792 spectra in LIBRARYNB searched for maximum PURITY  
 119 matched at least 7 of the 16 largest peaks in the unknown

Rank In.	Name
1	2791 2,4-PENTANEDIOL, 2-METHYL-
2	1326 OXEPANE, 2,2,4-TRIMETHYL-
3	8638 BUTANOIC ACID, 3-OXO-, 1,1-DIMETHYLETHYL ESTER
4	792 HYDROPEROXIDE, 1,1-DIMETHYLETHYL
5	800 1,2-BUTANEDIOL

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6.H14.O2	118	59	960	987	969
2	C6.H12.O	100	43	831	923	831
3	C8.H14.O3	158	41	738	844	766
4	C4.H10.O2	90	59	738	920	745
5	C4.H10.O2	90	59	732	923	732

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	107-41-5
2	---	---	---	---	23120-44-7
3	---	---	---	---	1694-31-1
4	---	---	---	---	75-91-2
5	---	---	---	---	584-03-2

Mass	Inten	1	2	3	4	5
27					43	110
28						32
29			67	131		113
31		97		126	82	883
38					17	
39	63	38	91	150	76	46
40	17		49		14	
41	168	164	326	463	184	294
42	133	132	257	34	59	32
43	640	627	653	360	605	228
44	43	43	38		11	27
45	156	168	56			119
53					9	
55	35	31	46	64	22	18
56	242	256	445	172	25	
57	143	130	112	415	161	61
58	57	30	28	46	174	110
59	1000	1028	516	449	904	1020
60	31	35	27		33	43
61	92	102				215
67	9					
69	6					
71	5					
77	3					
83	5					
84				27		
85	100	107	63	104		
86	5					
87	5					
100	5		27			
101	2					

31 000910 027030

101			14
102			70
103	74	65	
104	2		
115		4	
129		8	
158			6
159			1

31 000911 X  
027081

10  
10

LIBRARY SEARCH  
 03/10/84 19:38:00 + 9:52  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
 COND: S: SPB-S 30HR0.32MINID 1.0UMDF 30C/4MIN TO 280C/10C/MIN HOLD 26MIN  
 ENHANCED (S 1SB 2N 01)

DATA: 1240 # 592  
 CALL: 1240 # 3

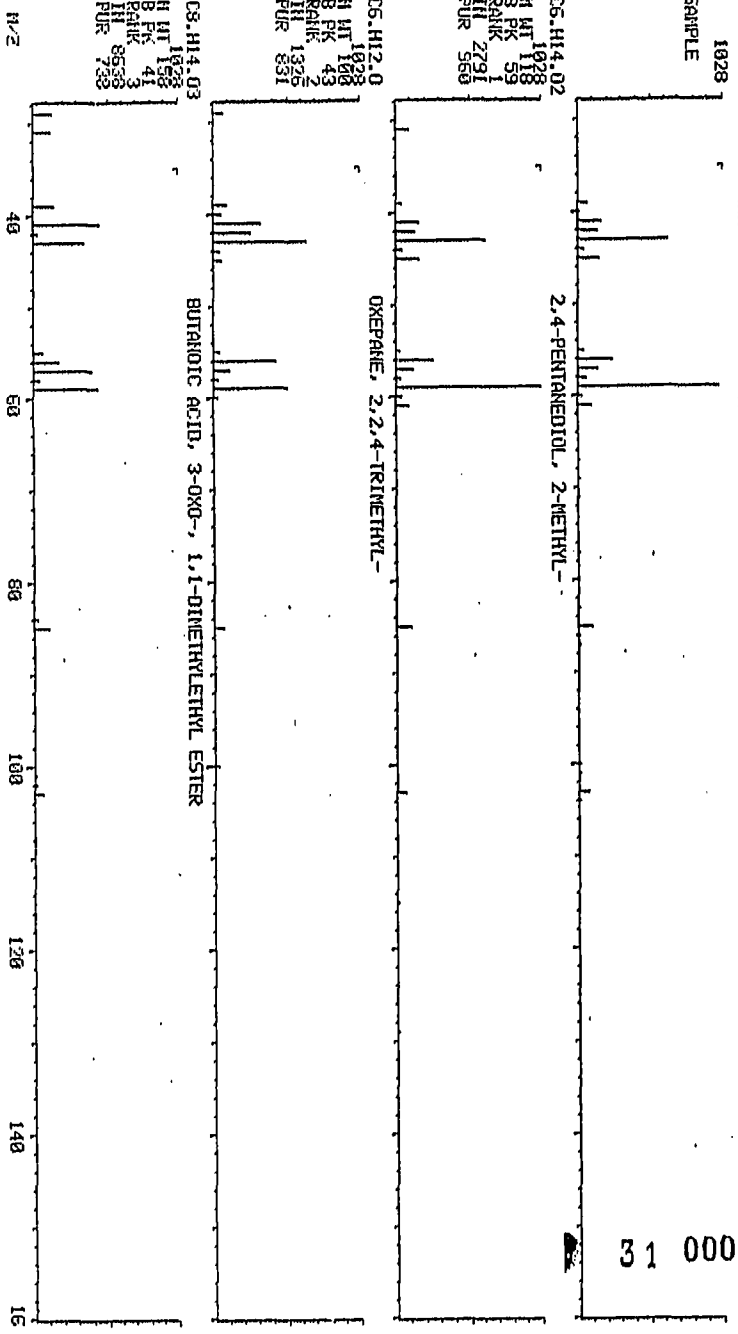
BASE M/Z: 59  
 RIC: 23615.

SAMPLE 1028

05.H14.02  
 H MT 1028  
 B PK 59  
 RANK 2791  
 IN 1  
 PUR 560

06.H12.0  
 H MT 1028  
 B PK 43  
 RANK 1326  
 IN 2  
 PUR 831

08.H14.03  
 H MT 1028  
 B PK 41  
 RANK 8558  
 IN 3  
 PUR 733



31 000912  
 027082



Library Search

Data: 1240 # 706

Base m/z: 45

03/10/84 19:38:00 + 11:46

Call: 1240 # 3

RIC: 1245.15

Sample: BNA SAMPLE R2579 CASE 2427 1.2UL

Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN

Enhanced (S 15B 2N 0T)

38752 spectra in LIBRARYND searched for maximum PURITY  
280 matched at least 6 of the 16 largest peaks in the unknown

Rank In.	Name
1	1573 2-PROPANOL, 1-METHOXY-2-METHYL-
2	4627 PROPANE, 1,2,3-TRIMETHOXY-
3	2792 1-BUTANOL, 4-ETHOXY-
4	1538 SILANE, METHOXYTRIMETHYL-
5	4438 SILANE, (2-METHOXYETHYL)TRIMETHYL-

UNKNOWN

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C5. H12. O2	104	59	653	819	690
2	C6. H14. O3	134	59	634	768	763
3	C6. H14. O2	118	59	608	662	656
4	C4. H12. O. SI	104	89	584	791	612
5	C6. H16. O. SI	132	89	573	757	658

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	3587-64-2
2	---	---	---	---	20637-49-4
3	---	---	---	---	111-73-9
4	---	---	---	---	1825-61-2
5	---	---	---	---	18173-63-2

Mass	Inten	1	2	3	4	5
15					26	
28		47			44	
29		119			34	54
31		231			34	
33		37				
39	46	20				
41	188	72	112	263		
42	555			288		
43	304	85	279	277	72	138
44	59			358	37	39
45	1000	130	668	164	72	131
46	24					
47	125		62			
55	15	32		252		51
56				105		
57	79	116		80		
58	60	24	355		45	78
59	544	686	766	661	538	568
60	17	24	39		46	44
61					28	28
63	5					
71	46	58	94	261		
72	35		41	187		14
73			26	57		176
74					20	16
75	5		49	80		18
79	3					
80	5					
81	3					
82	4					
83	4					

31 000913 x  
027083

87		71					
88			87	42			
89	625	450	547	185	616	621	
90	35		31	35	43	52	
91					19	22	
101	12		29				
102			279				
106	2						
107	5						

31 000914 x

027084

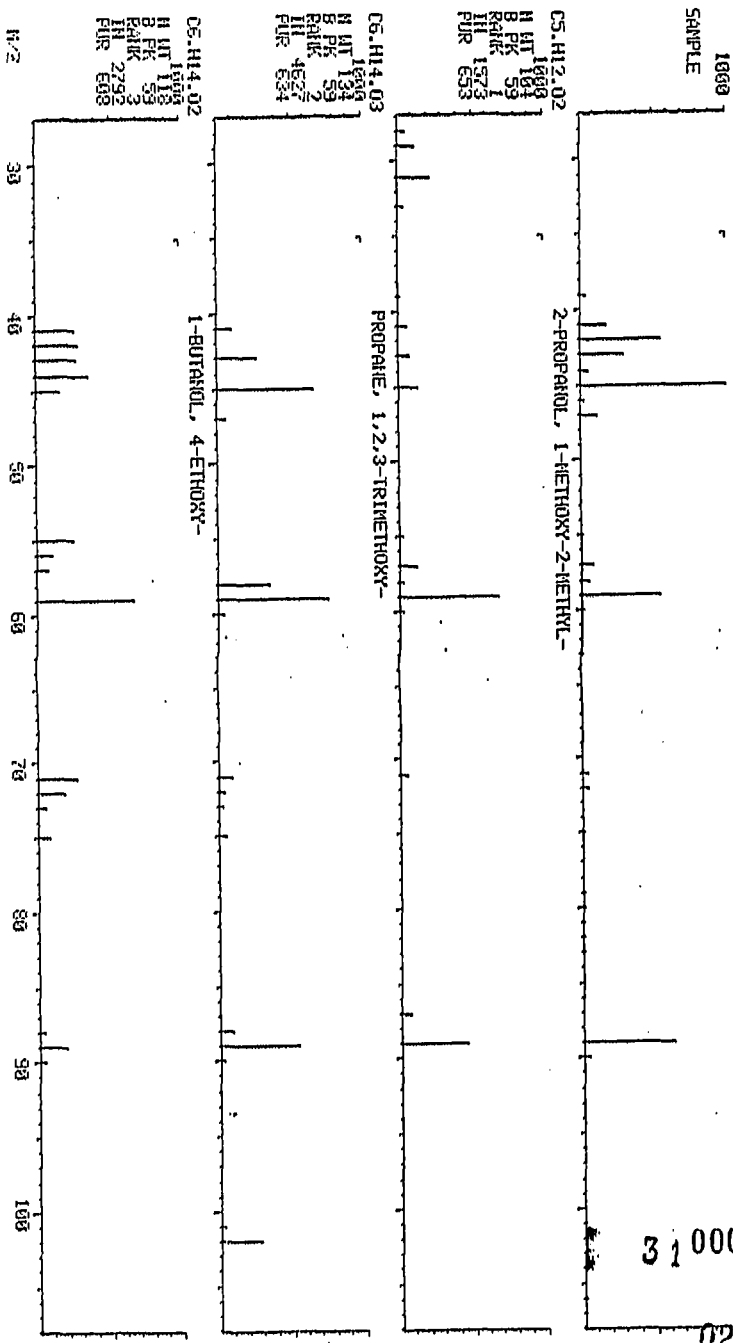
LIBRARY SEARCH  
 03/10/84 19:38:00 + 11:45  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
 COND.S.: SFB-5 30KX0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 ENHANCED (S 198 2N 0T)

DATA: 1240 # 705  
 CALL: 1248 # 3

BASE M/Z: 45  
 RIC: 19615.

31000915

027085



1980  
 SAMPLE

05-H12.02  
 H WT 1000  
 B PK 184  
 RPK 59  
 IN 1573  
 PUR 633

06-H14.03  
 H WT 1000  
 B PK 134  
 RPK 59  
 IN 4827  
 PUR 634

06-H14.02  
 H WT 1000  
 B PK 118  
 RPK 59  
 IN 2792  
 PUR 608

M/Z

30 40 50 60 70 80 90 100

Library Search                      Data: 1240 # 809                      Base m/z: 99  
 03/10/84 19:38:00 + 13:29              Cali: 1240 # 3                      RIC: 13951.511  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL  
 Conds.: SPB-5 30N\*0, 32MMID 1.0UMDF 30C/4MIN TD 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N 0T)

38752 spectra in LIBRARYNB searched for maximum PURITY  
 67 matched at least 5 of the 16 largest peaks in the unknown

Rank In.              Name  
 1 26168 DIPHOSPHORIC ACID, TETRAETHYL ESTER  
 2 12710 PHOSPHORIC ACID, TRIETHYL ESTER  
 3 7910 PHOSPHORIC ACID, DIETHYL ESTER  
 4 20020 PHOSPHONIC ACID, (3-METHYLENE-2-OXOPENTYL)-, DIETHYL ESTER  
 5 18945 PHOSPHORIC ACID, DIETHYL PENTYL ESTER

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C8. H20. O7. P2	290	99	762	990	762
2	C6. H15. O4. P	182	99	746	977	757
3	C4. H11. O4. P	154	99	735	982	744
4	C10. H19. O4. P	234	99	675	881	753
5	C9. H21. O4. P	224	99	577	846	612

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	107-49-3
2	---	---	---	---	78-40-0
3	---	---	---	---	598-02-7
4	---	---	---	---	54543-03-2
5	---	---	---	---	20195-08-8

Mass	Inten	1	2	3	4	5
27					274	
29					430	
41	51					
43	89	417	75	70	126	
45	124	124	136	140	128	
47	23					
51	21					
57				110		
63	22					
65	101				99	
67	17					
69	36					141
70						103
71						137
77	43					
79	24					
81	542	500	636	592	549	144
82	309	335	405	437	332	56
83	116	104	116	147	213	41
91	168	134	83	120		
92	16					
93	26					
96					81	
98	19					
99	1000	1034	888	845	805	1348
101	12					
103	14					
109	375	358	457	384	445	72
110	66	58	98	80	102	32
111	144	154	145	196	195	37
112						21

31 000916  
 027086

117	28					
119	327					
120	38					
125	181	183	164	160	159	59
126	49					21
127	498	517	419	514	366	677
134	289					
135	22					
137	91	87	127	86	124	
138	77	80	98	85	125	
139	77	88	83	86	124	
153	27	36			38	
154	14					
155	864	846	783	788	724	859
156	26					30
167	18				41	
179					12	
181	17				16	
182	60	60	60		61	
189					5	
195						3
196						7
206					0	
207			2			
208			1			
209			1			
210			1			
211			1			
212			1			
213			1			
214			1			
215			1			
216			1		33	
217			1			
218			1			
219			1			
220			1			
221			1			
222			1			5
223			1			
224			1			9
225			1			
226			1			
227			1			
228			1			
229			1			
230			1			
231			1			
232			1			
233			1			
234			1		183	
235			1			
236			1			
237			1			
238			1			
239			1			

31000917 x

027087

LIBRARY SEARCH  
 03/10/84 19:38:00 + 13:29  
 SAMPLE: BHA SAMPLE R3579 CASE 2427 1.2UL  
 COND5.: SPB-S 38440.32MINID 1.0UMDF 38C/AMIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 158 2N 0T)

DATA: 1240 # 809  
 CALL: 1240 # 3

BASE W/2: 99  
 RIC: 13951.

31000918  
 027083

1034  
 SAMPLE

C8.H29.07.P2  
 H AT 1034  
 B PK 236  
 RAIN 99  
 IN 26158  
 PUR 762

DIPHOSPHORIC ACID, TETRAETHYL ESTER

C6.H15.04.P

H AT 1034  
 B PK 182  
 RAIN 99  
 IN 12718  
 PUR 746

PHOSPHORIC ACID, TRIETHYL ESTER

C4.H11.04.P

H AT 1034  
 B PK 124  
 RAIN 99  
 IN 7918  
 PUR 735

PHOSPHORIC ACID, DIETHYL ESTER

M/Z

40 60 80 100 120 140 160 180 200 220 24

Library Search                      Data: 1240 # 837                      Base m/z: 59  
 03/10/84 19:38:00 + 13:57      Cali: 1240 # 3                      RIC: 139775  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL  
 Conds.: SPB-5 30M\*O. 32MMID 1.0UMDF 30C/4MIN TD 280C@10C/MIN HDLD 26MIN  
 Enhanced (S 15B 2N 0T)

38752 spectra in LIBRARYNB searched for maximum PURITY  
 74 matched at least 7 of the 16 largest peaks in the unknown

- Rank In.                      Name  
 1 8164 CYCLOHEXANEMETHANOL, .ALPHA.,.ALPHA.,4-TRIMETHYL-  
 2 11296 1,8-NONANEDIOL, 8-METHYL-  
 3 4232 2-HEXANOL, 2,5-DIMETHYL-, (S)-  
 4 8174 CYCLOHEPTANEMETHANOL, .ALPHA.,.ALPHA.-DIMETHYL-  
 5 8705 2-NONANONE, 9-HYDROXY-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C10. H20. O	156	59	859	995	859
2	C10. H22. O2	174	59	813	918	833
3	C8. H18. O	130	59	703	898	723
4	C10. H20. O	156	59	669	898	669
5	C9. H18. O2	158	43	575	704	584

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	498-81-7
2	---	---	---	---	54725-73-4
3	---	---	---	---	3730-60-7
4	---	---	---	---	16624-02-5
5	---	---	---	---	25368-56-3

Mass	Inten	1	2	3	4	5
27				108		
29				94		
31		41		56		
33					36	
39	33	39			25	
41	72	100	113	148	65	58
42	19		35			15
43	96	76	209	194	21	166
44						7
45	21					
54						5
55	99	122	98	93		74
56	59		67	41	33	10
57	26		41	90		6
58	122	133	48	26		143
59	1000	920	824	729	1061	112
60		36	42	24	22	27
67	20	26			21	11
68	7					
69	17	22	62	33		12
70	6		35	18		
71	22		44	59		37
73	11					
79	5					
81	44	59	27		21	4
82	7					29
83	22		46			13
85	9					
93	2					
94	2					
95	2					

027089

31 000919

96	25	19		
97	14	14	14	26
98	3		18	
103	7			
109	1			
115			19	
116			2	
119	1			
123	37	37	40	37
124	3			
137	1			
138	1			
139	1			
141	16	15	13	135
142	1			
159			16	

31000920 X

027090



LIBRARY SEARCH  
03/10/84 13:38:00 + 13:57  
SAMPLE: BHA SAMPLE R3579 CASE 2427 1.2UL  
CONDOS.: SP8-5 301K6.32MINID 1.0UMDF 300/4MIN TO 2800C/10C/MIN HOLD 26MIN  
ENHANCED (S 158 2N 0T)

DATA: 1240 # 837  
CALL: 1240 # 3

BASE W/Z: 58  
RIC: 139775.

1800  
SAMPLE

C18.H28.0

M RT 1028  
B PK 138  
K RANK 39  
M 815  
PUR 859

CYCLOHEXAMETHANOL, ALPHA, ALPHA, 4-TRIMETHYL-

C18.H22.02

M RT 1000  
B PK 59  
K RANK 129  
M 129  
PUR 813

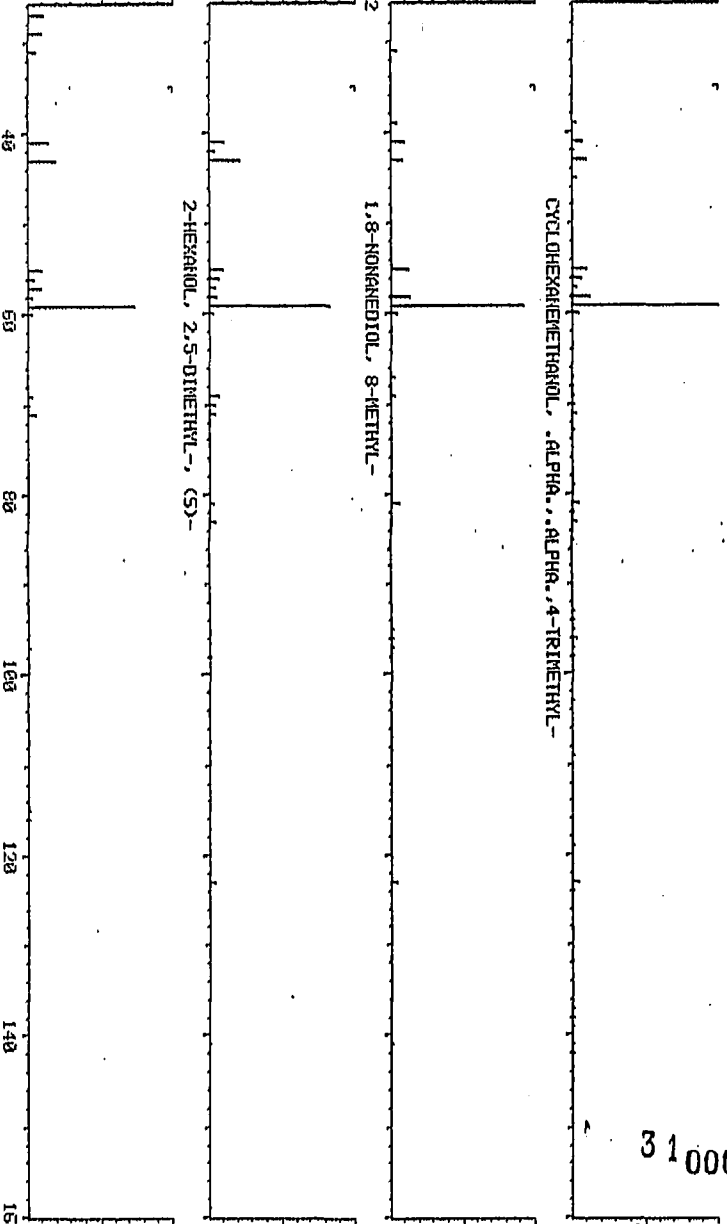
1,8-NONANEDIOL, 8-METHYL-

C8.H18.0

M RT 1050  
B PK 138  
K RANK 59  
M 422  
PUR 703

2-HEXANOL, 2,5-DIMETHYL-, (S)-

M/Z



31000921

027091

Library Search Data: 1240 # 842 Base m/z: 95  
 03/10/84 19:38:00 + 14:02 Cali: 1240 # 3 RIC: 60351.145  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL  
 Conds.: SPD-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT) 1265

38752 spectra in LIBRARYNB searched for maximum PURITY  
 51 matched at least 8 of the 16 largest peaks in the unknown

Rank In.	Name
1	7345 BICYCLO[2.2.1]HEPTAN-2-ONE, 1,7,7-TRIMETHYL-
2	7386 CYCLOHEXANONE, 2-METHYL-5-(1-METHYLETHENYL)-, TRANS-
3	7390 CYCLOHEXANONE, 2-METHYL-5-(1-METHYLETHENYL)-
4	7375 BICYCLO[2.2.1]HEPTAN-2-ONE, 5,5,6-TRIMETHYL-, ENDO-
5	7374 BICYCLO[2.2.1]HEPTAN-2-ONE, 5,5,6-TRIMETHYL-, EXO-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C10.H16.O	152	95	881	990	888
2	C10.H16.O	152	95	791	929	791
3	C10.H16.O	152	95	766	925	766
4	C10.H16.O	152	108	742	895	773
5	C10.H16.O	152	95	716	870	742

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	76-22-2
2	---	---	---	---	5948-04-9
3	---	---	---	---	7764-50-3
4	---	---	---	---	3767-44-0
5	---	---	---	---	3649-86-3

Mass	Inten	1	2	3	4	5
27			172	215		
39	267		278	275	237	
41	566	536	482	556	457	430
42	67					
43	52					
53	127		116			
54	38					
55	318	322	197	197	448	444
65	42					
67	236	173	474	524	352	308
68	171	175	361	353		235
69	435	348	231	187	410	489
70					254	227
77	57					
79	76					
80	166	157				
81	762	739	315	318	316	254
82	138	125	347	314		
83	304	344			165	267
91	42					
93	108	85			215	
94	34					
95	1000	1038	817	762	704	1096
96	88	104	142	154		
97	53		102	141		133
105	5					
108	445	447	210	241	779	117
109	297	301	340	343	187	148
110	158	160	223	218	180	442
111	14				89	104
118	2					

31 000922

027092

117	4					
123	9					
124	7					
136		29				
137	36		122	116	120	86
138	5					
150	1					
152	370	368	265	268	262	312
153	34	36	29			

027093

31 000923 X A

LIBRARY SEARCH  
 03/10/84 19:38:00 + 14:02  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
 COND.: SP8-5 30MM\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 ENHANCED (S 158 2N 01)

DATA: 1240 # 842  
 CL1: 1240 # 3

BASE M/Z: 95  
 RIC: 60351.

1038  
 SAMPLE

C10.H16.0  
 H UT 1038  
 B PK 95  
 IN 7345  
 PUR 891

BICYCLO[2.2.1]HEPTAN-2-ONE, 1,7,7-TRIMETHYL-

C10.H16.0

H UT 1038  
 B PK 95  
 Refik 7286  
 IIL 7286  
 PUR 791

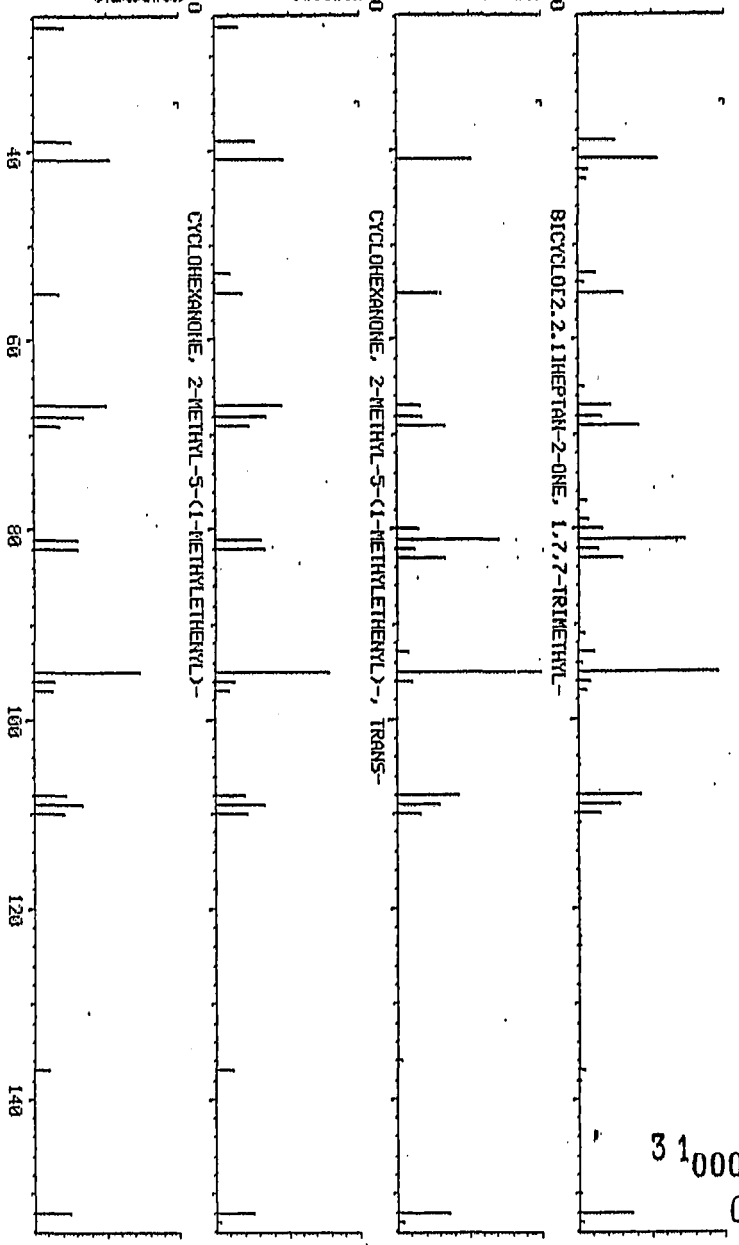
CYCLOHEXANONE, 2-METHYL-5-(1-METHYLETHENYL)-, TRANS-

C10.H16.0

H UT 1038  
 B PK 95  
 Refik 7320  
 MUR 7320  
 PUR 786

CYCLOHEXANONE, 2-METHYL-5-(1-METHYLETHENYL)-

M/Z



31000924  
 027094

Library Search Data: 1240 # 881 Base m/z: 128  
 -03/10/84 19:38:00 + 14:41 Cali: 1240 # 3 RIC: 14687  
 Sample: DNA SAMPLE R3579 CASE 2427 1.2UL  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 24MIN  
 Enhanced (S 15B 2N 0T)

38752 spectra in LIBRARYNB searched for maximum PURITY  
 281 matched at least 6 of the 16 largest peaks in the unknown

- | Rank In. | Name   |
|----------|--|
| 1        | 22073 OCTANOIC ACID, SILVER(1+) SALT                                 |
| 2        | 6210 OCTANOIC ACID   |
| 3        | 8675 NONANOIC ACID   |
| 4        | 11422 BUTANEDIIC ACID, DIETHYL ESTER                                 |
| 5        | 13666 2H-PYRAN-2-METHANOL, 3,6-DIHYDRO-3-HYDROXY-6-(1-METHYLETHOXY)- |
- UNKNOWN*

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C8. H16. O2. Ag	291	60	461	620	534
2	C8. H16. O2	144	60	431	882	462
3	C9. H18. O2	158	60	414	895	437
4	C8. H14. O4	174	29	399	665	413
5	C9. H16. O4	188	86	398	730	403

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	24927-67-1
2	---	---	---	---	124-07-2
3	---	---	---	---	112-05-0
4	---	---	---	---	123-25-1
5	---	---	---	---	56196-34-0

Mass	Inten	1	2	3	4	5
27					318	
28					286	
29			244		569	
32			367			
39	143					72
40				161		
41	330	255	334	302		132
42			123			
43	556	303	487	303	93	174
44						52
45	142			86	167	238
51	66					
55	268	317	322	261	249	46
56	166			82	132	
57	226	433	121	423	60	477
59	114					
60	792	735	866	728		
61	102	97	102			
69	93	113	102	123		49
73	556	485	568	578	172	
74	80			52	111	
75	35					
77	43					
83	53			59		71
84		144	120			
85	155	158	150			107
86	91					490
87	109	99	84	83		
95	68					
96				31		
97	18					

31 000925

027095

98	26			72		38
99	14					102
100					14	
101	196	165	151	46	229	
102	73				27	
109		20				
110	22					
111	15					
113	42					
114	32					
115	56	27	80	102		
125	25					
126	67					
127	133	157				
128	1000	16			38	249
129	164		13		164	164
130					9	
139	9					
142	13					
144	6		6			
147					6	
158				12		
159				1		
174					3	
215		6				
216		10				
217		10				
249		4				
251		4				
273		1				
275		1				
357		13				
359		24				

31 000926 x

027096

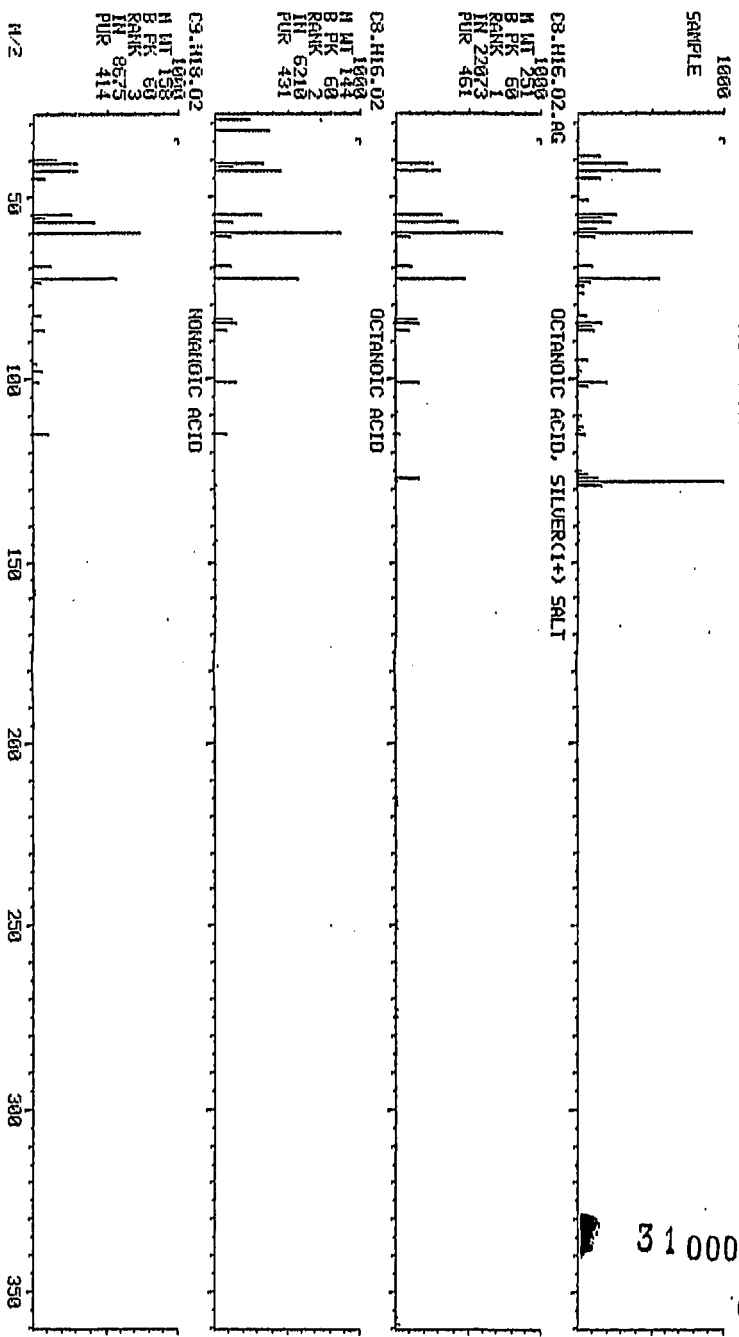
LIBRARY SEARCH  
 03/10/84 19:38:00 + 14-41  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
 CONDUS.: SPB-S 30MR0.32AMTD 1.00MDF 30C/AMIN TO 280C@10C/MIN HOLD 25MIN  
 ENHANCED (S 158 2N 01)

DATA: 1240 # 981  
 CALL: 1240 # 3

BASE W/Z: 128  
 RIC: 14687.

31 000927

027097



Library Search                      Data: 1240 # 902                      Base m/z: 83  
 03/10/84 19:38:00 + 15:02              Cali: 1240 # 3                      RIC: 31679  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL                      1065 :25  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N 0T)

38752 spectra in LIBRARYND searched for maximum PURITY  
 268 matched at least 4 of the 16 largest peaks in the unknown

Rank In.                      Name                      *UNKNOWN*  
 1 7401 BICYCLO[3.1.1]HEPTAN-2-ONE, 3,6,6-TRIMETHYL-  
 2 28943 [(1,1'-BICYCLOPROPYL)-2-OCTANDIC ACID, 2'-HEXYL-, METHYL ESTER  
 3 7398 BICYCLO[3.1.1]HEPTAN-3-ONE, 2,6,6-TRIMETHYL-, (1, ALPHA., 2, BETA., 5, A\*  
 4 7362 BICYCLO[3.1.1]HEPTAN-3-ONE, 2,6,6-TRIMETHYL-, (1, ALPHA., 2, ALPHA., 5, \*  
 5 9972 3,7-DECADIENE, 2,9-DIMETHYL-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C10.H16.O	152	83	544	950	597
2	C21.H38.O2	322	73	507	716	592
3	C10.H16.O	152	83	506	912	517
4	C10.H16.O	152	83	471	907	495
5	C12.H22	166	55	462	854	473

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	16022-08-5
2	---	---	---	---	56687-68-4
3	---	---	---	---	15358-88-0
4	---	---	---	---	547-60-4
5	---	---	---	---	74630-13-0

Mass	Inten	1	2	3	4	5
27		153		136		
39		217		161	135	59
41	417	417	512	425	434	259
43	541		663			60
44	373					
45	625		702			
53	115			81	70	44
55	605	642	437	588	612	1007
56						53
58	190					
59	625		352			
60	190					
67	240	179	341	134	96	189
68	127	114	199	71	59	
69	384	208	240	743	606	119
72	241					
73	96		717			
74			165			
77	144					
81	173	304	319	187	197	171
82	192	122	191	69	77	441
83	1000	943	171	771	1069	733
84	82	197			80	
86	674					
95	462	326	230	362	191	128
96	62	122	153	69	79	65
97	70	94	118	219	170	
98	32					
106	53					
107	71					
108	744	724	142	44		108

31 000928

027098



---	---	---	---	---	---	---
110	143	172		130	104	180
111					90	
119	23					
123	32		102			103
124	36					13
130	8					
137	87	59	49			
138	4					
148	8					
150	53		56			
151			59			3
152	153	176	59	146	147	
153	12			19	18	
164						1
165			59			
166						3
178			20			
207			13			
210			11			
223			8			
224			11			
237			10			
290			8			
291			15			
322			31			
323			8			

027093

31 000929x

LIBRARY SEARCH  
 03/10/84 19:38:00 + 15:02  
 SAMPLE: BHA SAMPLE R3579 CASE 2427 1.2UL  
 CONDS.: SP8-5 30N80.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 ENHANCED (S 158 2N 017)

DATA: 1240 # 902  
 CALL: 1240 # 3

BASE M/Z: 83  
 RIC: 31679.

1000  
 SAMPLE

C10.H16.0  
 H AT 1929  
 B PK 85  
 RALK 1  
 TH 7401  
 PUR 544

BICYCLO[3.1.1]HEPTAN-2-ONE, 3,6,6-TRIMETHYL-

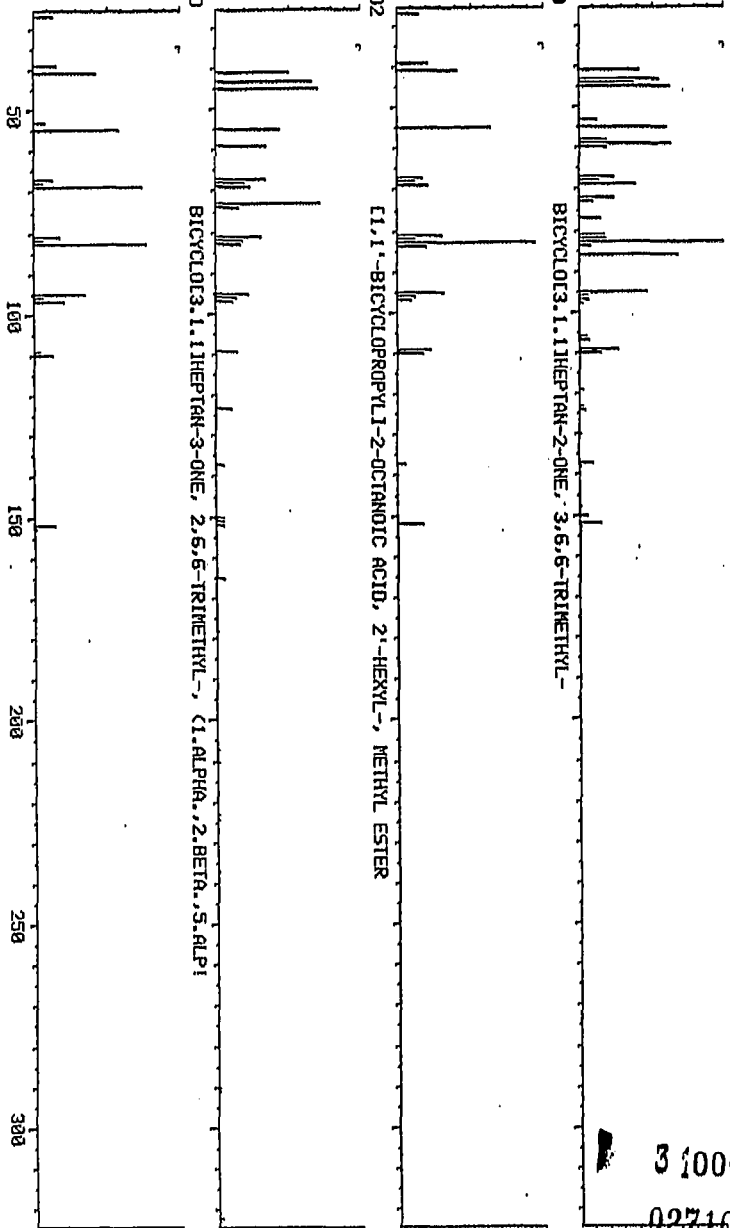
C21.H38.02  
 H AT 1898  
 B PK 72  
 RALK 73  
 TH 29342  
 PUR 507

[1,1'-BICYCLOPROPYLI-2-OCTANOIC ACID, 2'-HEXYL-, METHYL ESTER

C10.H16.0  
 H AT 1929  
 B PK 85  
 RALK 1  
 TH 7401  
 PUR 544

BICYCLO[3.1.1]HEPTAN-3-ONE, 2,5,6-TRIMETHYL-, (1-ALPHA,2-BETA,5-ALPHA)

M/Z



3 1000930

027100

Library Search Data: 1240 # 927 Base m/z: 59  
 03/10/84 19:38:00 + 15:27 Cali: 1240 # 3 RIC: 33087. 13-45  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL  
 Conds.: SPD-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TD 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT)

38752 spectra in LIBRARYNB searched for maximum PURITY  
 199 matched at least 6 of the 16 largest peaks in the unknown

- | Rank In. | Name   |
|----------|--|
| 1        | 12046 2, 5, 8, 11-TETRAOXADODECANE           |
| 2        | 18408 2, 5, 8, 11, 14-PENTAOXAPENTADECANE    |
| 3        | 9694 ETHANOL, 2-[2-(2-METHOXYETHOXY)ETHOXY]- |
| 4        | 4627 PROPANE, 1, 2, 3-TRIMETHOXY-            |
| 5        | 6572 ETHENE, (2-ETHOXY-1-METHOXYETHOXY)-     |

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C8. H18. O4	178	59	867	943	882
2	C10. H22. O5	222	59	848	918	856
3	C7. H16. O4	164	45	809	884	809
4	C6. H14. O3	134	59	804	922	804
5	C7. H14. O3	146	59	793	917	793

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	112-49-2
2	---	---	---	---	143-24-8
3	---	---	---	---	112-35-6
4	---	---	---	---	20637-49-4
5	---	---	---	---	54063-18-2

Mass	Inten	1	2	3	4	5
15		96				
18			107			
27						101
28		112	119			83
29		334	256	134		276
31		266	240	155		248
41	30				105	59
43	118	103	339	91	261	165
44	30	28	43	87		45
45	425	269	269	932	626	633
46	9					
47	9			60		
55		47				
57	32					67
58	520	372	341	274	332	417
59	1000	1232	1036	629	716	771
60	37	43	39		37	
61	3					
71	5				81	
72	11			38	35	
73	16		31	44	23	42
74	3					
75	21			48	44	
76	15					
87	32	60	57	48		66
88	5	12		50	30	
89	182	95	59	209	189	25
90	7				11	
97	3					
101	23	10	12		9	23
102	84	23	25	38		87

3 1000931

027101

103	77	114	163	43	18
104	4				
105	4				
116	1				
119	2			47	
127	4				
128	1				
131	1		5		
133	18	18	18	18	
134	4				
135	1				
140	1				
147			4		
148	3				
170	1				
177			4		

31000932 \*  
027102

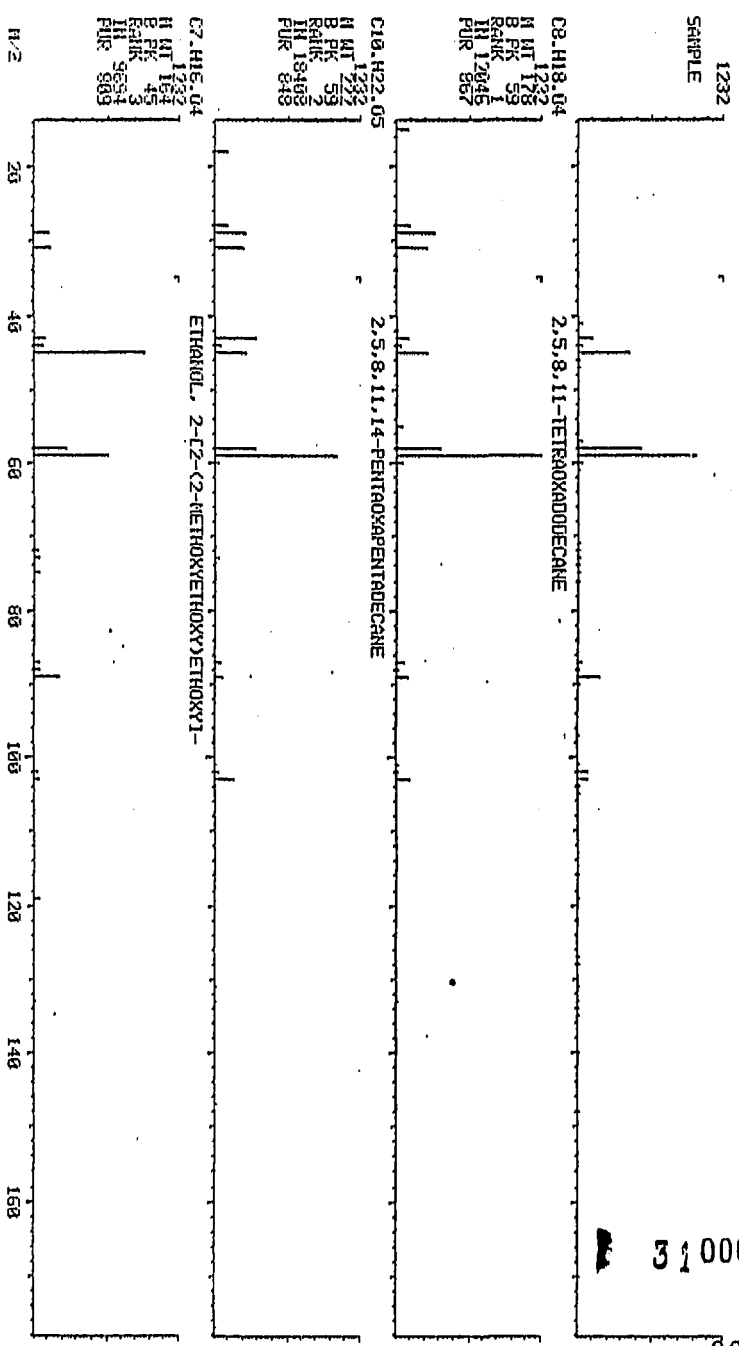
LIBRARY SEARCH  
 03/10/84 19:38:00 + 15:27  
 SAMPLE: BHA SAMPLE R3575 CASE 2427 1.20L  
 COND.S.: SP8-5 30MK0.32NMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 1SB ZN 0T)

DATA: 1240 # 927  
 CALL: 1240 # 3

BASE M/Z: 59  
 RIC: 33087.

31000983

027103



Library Search

Date: 1240 # 752

Base m/z: 55

03/10/84 19:38:00 + 15:52

Call: 1240 # 3

RIC: 259583.115

Sample: DNA SAMPLE R3579 CASE 2427 1.2UL

Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN

Enhanced (S 15B 2N OT)

38752 spectra in LIBRARYNB searched for maximum PURITY  
121 matched at least 7 of the 16 largest peaks in the unknown

Rank In.	Name
1	2241 2H-AZEPIN-2-ONE, HEXAHYDRO-
2	4282 HEXANOIC ACID, 6-AMINO-
3	2226 2,5-PYRROLIDINEDIONE, 1-METHYL-
4	5695 2,5-PYRROLIDINEDIONE, 3-ETHYL-3-METHYL-
5	3765 1,3,2-DIOXABORINANE, 2-ETHYL-4-METHYL-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6. H11. O. N	113	55	894	992	896
2	C6. H13. O2. N	131	55	886	973	904
3	C5. H7. O2. N	113	56	671	766	719
4	C7. H11. O2. N	141	55	622	723	641
5	C6. H13. O2. N	128	113	616	813	640

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	105-60-2
2	---	---	---	---	60-32-2
3	---	---	---	---	1121-07-9
4	---	---	---	---	77-67-8
5	---	---	---	---	57633-65-5

Mass	Inten	1	2	3	4	5
27		126	210			
28		236	431			106
29						127
30		728	306			
39	287	140	377		268	
40	80			34		
41	499	362	504	57	294	
42	565	565	443	224	541	
43	212	191	144	119		408
44	67					
45						149
49					61	
53	48			47	57	
54	54		99	57	53	114
55	1000	1113	894	288	1080	732
56	695	739	752	1201	67	339
57	81	106		250		657
58				273		
59	15					
67	89	77	132			
68	53			25		
69	42				122	
70	24			22	885	
71					49	
72	9					177
82	9					
83	82	46	76			222
84	417	434	336	57	50	209
85	377	410	439	46	166	162
86	21					
81	10					

027104

3 000934

95	6					
96	8					
97	5					
98	10			30		
109	2					
112	39		98			194
113	721	705	738	735	716	738
114	59	74	42	43	46	40
115	4					
119	4					
123	1					
124			55			
125	1					
126				7		
127						17
128						20
129	1					
136	5					
137	1					
138	1					
139	1					
140	1					
141				8		
142	2					
155	0					
166	2					

31 000935

027105

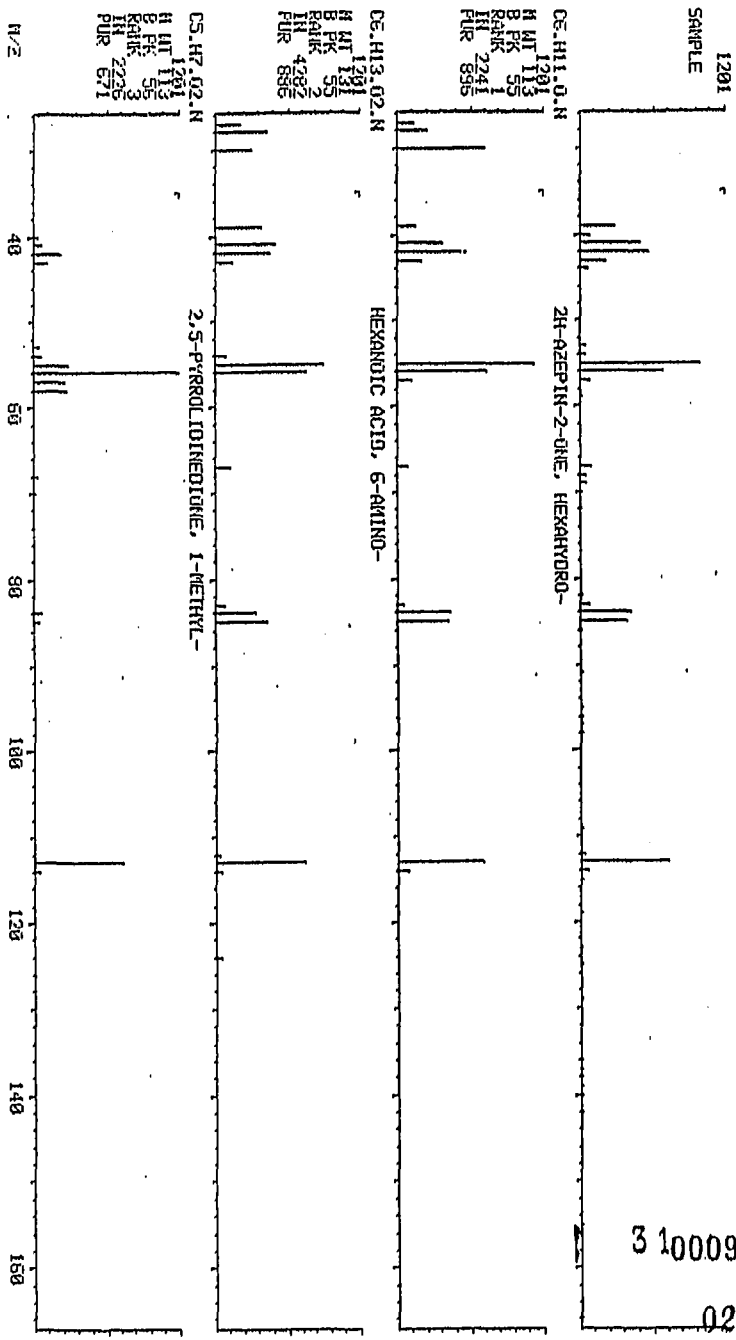
LIBRARY SEARCH  
 03/10/84 19:38:00 + 15:52  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
 CONDOS.: 598-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@18C/MIN HOLD 26MIN  
 ENHANCED (S 158 ZN 01)

DATA: 1240 # 952  
 CALI: 1240 # 3

BASE N/Z: 55  
 RIC: 259583.

3 1000936

027106





Library Search                      Data: 1240 #1178                      Base m/z: 73  
 03/10/84 19:38:00 + 19:38              Call: 1240 # 3                      RIC: 53882.42  
 Sample: BNA SAMPLE R2579 CASE 2427 1.2UL  
 Conds.: SPB-5 30M\*O.32MMID 1.0UMDF 30C/4MIN TD 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT)

38752 spectra in LIBRARYNB searched for maximum PURITY  
 84 matched at least 7 of the 16 largest peaks in the unknown

- Rank In.              Name  
 1 15410 DODECANOIC ACID  
 2 27642 DODECANOIC ACID, SILVER(1+) SALT  
 3 17453 TRIDECANOIC ACID  
 4 22672 HEXADECANOIC ACID  
 5 10982 DECANOIC ACID

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C12.H24.O2	200	73	812	992	818
2	C12.H24.O2.AG	307	73	636	816	656
3	C13.H26.O2	214	73	604	839	690
4	C16.H32.O2	256	43	601	833	700
5	C10.H20.O2	172	60	600	962	603

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	143-07-7
2	---	---	---	---	18268-45-6
3	---	---	---	---	638-53-7
4	---	---	---	---	57-10-3
5	---	---	---	---	334-48-5

Mass	Inten	1	2	3	4	5
29		423				317
32					786	
39	137					
41	613	645	572	469	447	583
42	145					
43	691	717	702	689	863	579
45	118					
55	507	497	596	464	499	421
56	130					
57	435	484	604	642	638	499
60	963	942	690	879	740	1064
61	175				194	175
69	264	248	254	256	318	198
70	84					
71	257	280	303	253	325	371
73	1000	947	736	939	815	906
74	77					
82	35					
83	136	144	190	165	206	129
84	90		161			
85	254	257	290	234	195	
86	30					
87	143	143		178		140
95	35					
96	28					
97	99	99	119	111	153	
98	77		183		99	
99	53					
101	108	104				
109	14					
110	17					

31 000937  
 027107

111	52				69		
112	28					81	
115	139	140	114	156	91	78	
116	9						
125	38						
126	8						
127	5						
129	308	283	283	296	294	306	
130	24					25	
138	40	42					
139	6						
140	29	45					
141	10						
142	10						
143	59	64	76	76		50	
152	2			22			
154	3			17			
155	3						
156	3						
157	208	190	187	37	60		
158	18	22					
164	2						
168	2						
169	1						
170	2						
171	64	62	74	133	64		
172	7			15		95	
173						11	
181	1						
182	3						
183	4		411				
184			60				
185				24	62		
186		20		3			
194					21		
196					5		
199					13		
200	178	174	26				
201	19	23					
210	3						
213					90		
214				227	10		
215				36			
216			1				
217			1				
227					18		
228					5		
256					75		
257					12		
305			1				
307			1				
413			4				
415			6				

31 000938 \*

027103

LIBRARY SEARCH  
 03/10/84 13:38:00 + 13:38  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
 COND.: SP8-5 30MIN@.32MIN@D 1.00MIN@ 300/4MIN TO 2800@160/4MIN HOLD 25MIN  
 ENRANCED (S 15B 2N 0T)

DATE: 1240 #1178  
 CALL: 1240 # 3

BASE W/Z: 73  
 RIC: 53887.

1000  
 SAMPLE

C12.H24.O2  
 N UT 1900  
 B EK 72  
 RANK 71  
 IH 15410  
 PUR 812

DODECANOIC ACID

C12.H24.O2.FG  
 N UT 1900  
 B EK 72  
 RANK 71  
 IH 15410  
 PUR 812

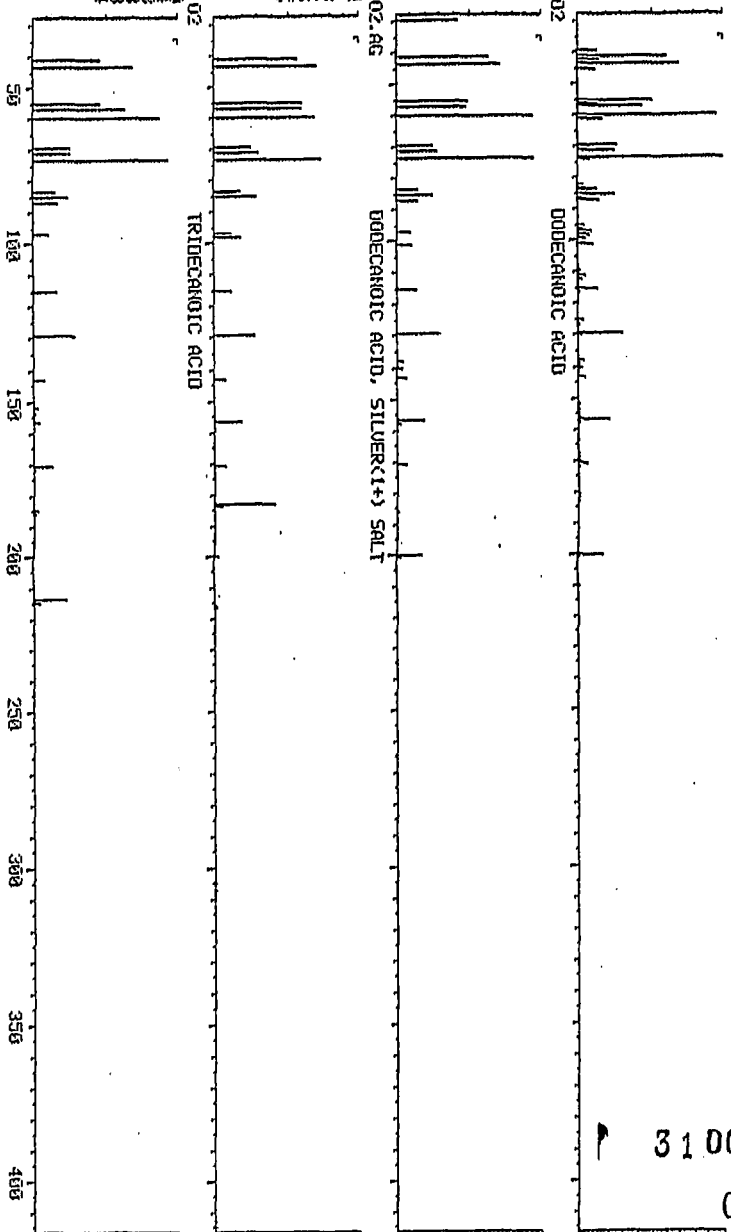
DODECANOIC ACID, SILVER(1+) SALT

C13.H26.O2  
 N UT 1900  
 B EK 72  
 RANK 71  
 IH 17453  
 PUR 831

TRIDECANOIC ACID

C13.H26.O2  
 N UT 1900  
 B EK 72  
 RANK 71  
 IH 17453  
 PUR 831

M/Z



31 000939

027103

Library Search Data: 1240 #1269 Base m/z: 91  
 03/10/84 19:38:00 + 21:09 Call: 1240 # 3 RIC: 15599.  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL 1265  
 Conds.: SPB-5 30M\*O. 32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT)

35752 spectra in LIBRARYNB searched for maximum PURITY  
 63 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name  
 1 15334 BENZENESULFONAMIDE, N,N,4-TRIMETHYL-  
 2 15333 BENZENESULFONAMIDE, N-ETHYL-4-METHYL-  
 3 13206 BENZENESULFONAMIDE, N,4-DIMETHYL-  
 4 13901 BENZENESULFONYL CHLORIDE, 2-METHYL-  
 5 12973 BENZENE, (PHENOXYMETHYL)-

UNKNOWN

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C9.H13.O2.N.S	199	91	649	945	653
2	C9.H13.O2.N.S	199	91	621	934	621
3	C8.H11.O2.N.S	185	91	520	831	537
4	C7.H7.O2.S.CL	190	91	496	808	609
5	C12.H12.O	184	91	473	718	476

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	599-69-9
2	---	---	---	---	80-39-7
3	---	---	---	---	640-61-9
4	---	---	---	---	133-59-5
5	---	---	---	---	946-80-5

Mass	Inten	1	2	3	4	5
28				135		41
30				224		
39	99			112	96	117
41	36					
42	28	64				
43		41				
44	193	315				
50	13					22
51	44			66	58	62
52	9					
53	9					
58	13					
62	18					
63	71			102	94	43
64	39			35	49	
65	266	112	266	224	256	266
66	15					9
74	6					
76	3					
77	52			59	53	24
78	17					
79	9					
89	101			139	111	17
90	258			66	209	7
91	1000	958	998	491	972	1053
92	107	144	108	328	114	76
93	8					
94	3					8
104	6					
105	11					5
106	25					5

31 000940

027110

106	45					
107	14					
108	12		54			
109	26			63		
110	7					
120	79		53			
121	12		163			
122			18			
133	15					
134	18	76				
135	5	53				
136	5					
137	57	52		80		
138	4			11		
139			39	18		
145	0					
148	4					
152					3	
153	3				3	
154	12					
155	362	253	362	335	319	1
156	25	36		44	34	
157	16	36		20	19	
162	2					
165						3
177	4					
181	4					
183	7					
184	145		284			141
185	13			49		17
186	6			6		
190					200	
192					72	
198	7	24				
199	302	279	87			
200	25	37				
201	11	18				
204	2					
221	2					

31 000941 \*

027111

LIBRARY SEARCH  
 03/10/84 19:38:00 + 21:03  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
 CONDOS.: SP8-S 30KHZ, 32MINID 1.0UNDF 30C/4MIN TO 280C@18C/MIN HOLD 25MIN  
 ENHANCED (S 1SB 2N 01)

DATA: 1240 #1263  
 CALL: 1240 # 3

BASE M/Z: C91  
 RIC: 15299.

1000  
 SAMPLE

C9.H13.02.N.5

H WT 1998  
 B PK 91  
 IIR 15384  
 PUR 649

BENZENSULFONAMIDE, N,N,4-TRIMETHYL-

C9.H13.02.N.5

H WT 1998  
 B PK 91  
 IIR 15384  
 PUR 649

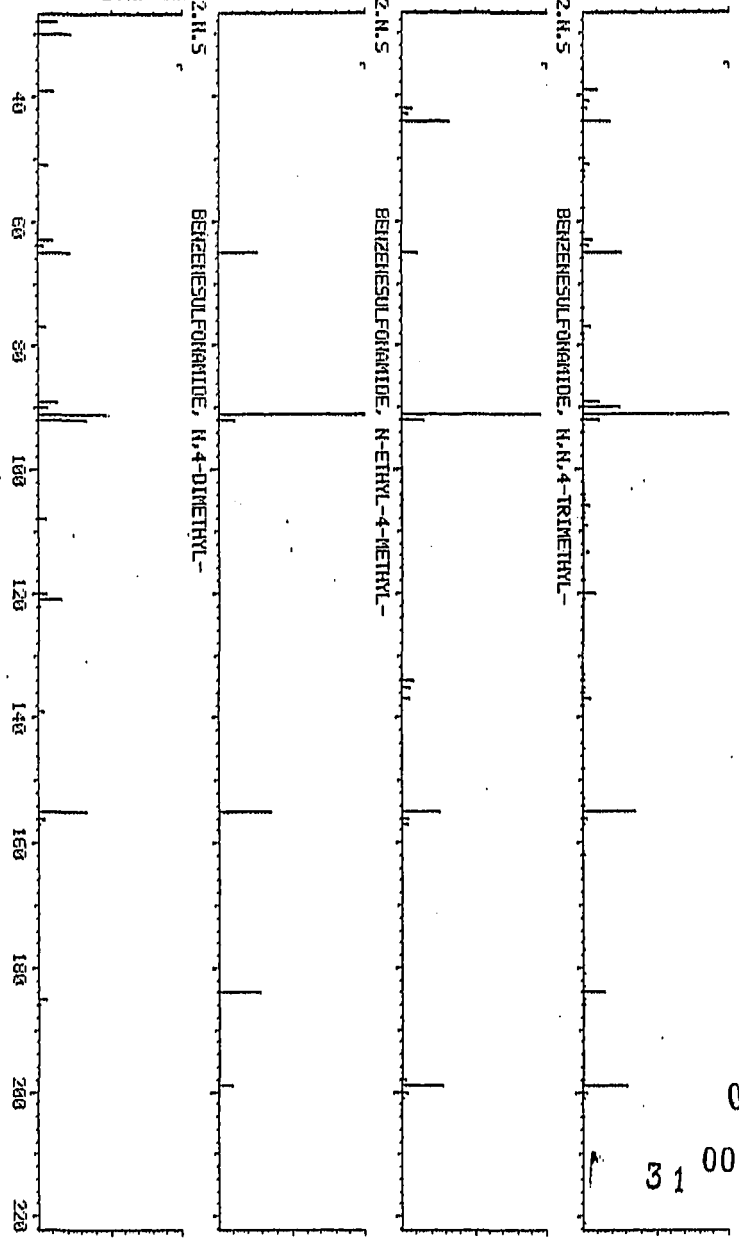
BENZENSULFONAMIDE, N-ETHYL-4-METHYL-

C9.H11.02.N.5

H WT 1998  
 B PK 91  
 IIR 15384  
 PUR 649

BENZENSULFONAMIDE, N,4-DIMETHYL-

M/Z



0271  
 31 000942 \*

Library Search Data: 1240 #1319 Base m/z: 73  
 03/10/84 19:38:00 + 21:59 Cali: 1240 # 3 RIC: 11993.74  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL 1245  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT)

38752 spectra in LIBRARYND searched for maximum PURITY  
 159 matched at least 7 of the 16 largest peaks in the unknown

- Rank In. Name
- 1 19420 TETRADECANOIC ACID
- 2 22672 HEXADECANOIC ACID
- 3 10982 DECANOIC ACID
- 4 13271 UNDECANOIC ACID
- 5 19410 DODECANOIC ACID

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C14. H28. O2	228	73	812	993	815
2	C16. H32. O2	256	43	610	774	703
3	C10. H20. O2	172	60	567	961	570
4	C11. H22. O2	186	60	558	916	588
5	C12. H24. O2	200	73	553	863	615

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	544-63-8
2	---	---	---	---	57-10-3
3	---	---	---	---	334-48-5
4	---	---	---	---	112-37-8
5	---	---	---	---	143-07-7

Mass	Inten	1	2	3	4	5
29				335	367	387
32			860			
41	648	665	474	611	671	682
42	146					
43	742	771	915	607	742	760
45	112					
55	546	590	527	442	495	522
56	146					
57	573	543	675	523	413	510
60	898	852	781	1128	1050	985
61	170	212	204	186		
69	292	314	334	210	242	258
70	88					
71	297	293	341	393	379	292
72					260	
73	1000	949	869	958	984	992
74	60					
82	48					
83	191	205	212	132	132	141
84	105					
85	202	194	201		212	252
87	145	148		162	171	143
95	31					
96	23					
97	126	123	155			92
98	91		101			
99	57					
101	47					91
110	36					
111	56		76			
112	22			99		

3 1000943  
 027113

113	27					
115	94	112	101	98	117	138
116	25					
124					37	
125	22					
126	28				52	
129	371	347	310	372	192	303
130	35			30		
138						44
140	8					47
142	8					
143	58	62		59	141	77
144	11				15	
152	9					
156	3					
157	21		38		16	189
158						22
159	9					
166	21	34				
167	16					
168	25	28				
169	6					
171	61	53	41			64
172	9			100		
173				12		
179	20					
181	20					
185	214	191	61			
186	22	28		100		19
187	13			13		
192	7					
194			21			
196			5			
199	21	32	21			192
200						25
201						
207	8					
213			144			
214			17			
219		11				
227			20			
228	274	252	9			
229	27	45				
256			82			
257			13			

31 000944

027114



LIBRARY SEARCH  
 03/18/84 19:38:00 + 21:59  
 SAMPLE: B19 SAMPLE R3579 CASE 2422 1.2UL  
 COND.: SFB-5 30MIN.32MINID 1.0UMWF 30C/4MIN TO 280C@10C/MIN HOLD 28MIN  
 ENHANCED (S 158 2N 8T)

DATA: 1240 #1319  
 CALL: 1240 # 3

BASE N/Z: 73  
 RIC: 11583.

1128  
 SAMPLE

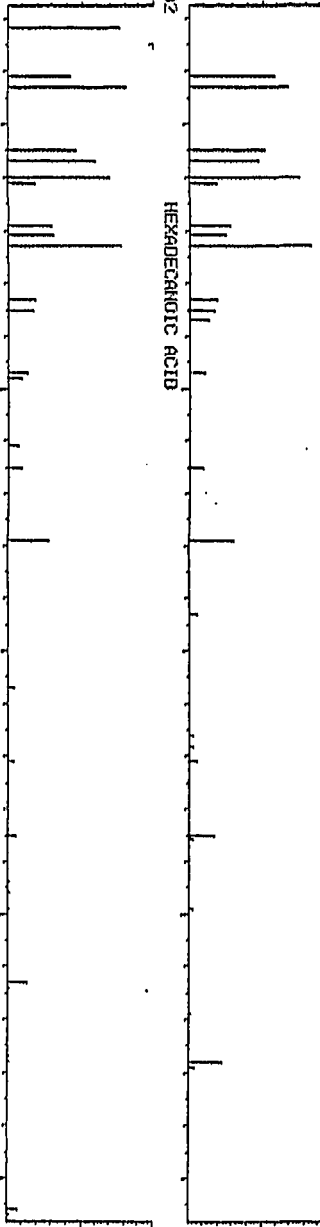
C14.H28.02

H UT 1128  
 B PK 523  
 RATE 1  
 IN 15426  
 PUR 812



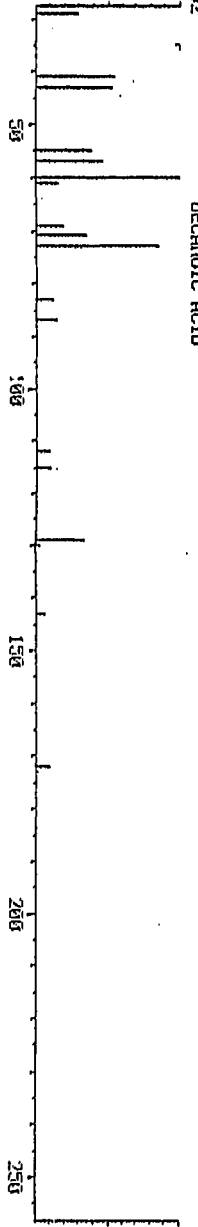
C16.H32.02

H UT 1458  
 B PK 238  
 RATE 2  
 IN 2872  
 PUR 816



C18.H36.02

H UT 1128  
 B PK 69  
 RATE 3  
 IN 10982  
 PUR 357



3:000945 #  
 0271115

Library Search Data: 1240 #1367 Base m/z: 188  
 03/10/84 19:38:00 + 22:47 Call: 1240 # 3 RIC: 52671.41  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2M OT)

38752 spectra in LIBRARYNB searched for maximum PURITY  
 159 matched at least 4 of the 16 largest peaks in the unknown

Rank In. Name  
 1 13565 DIBENZOTHIOPHENE, 1,2,3,4-TETRAHYDRO- *UNKNOWN*  
 2 13546 3H-NAPHTHOC[1,8-BC]THIOPHEN-3-ONE, 4,5-DIHYDRO-  
 3 13828 PHENAZINE, DECAHYDRO-  
 4 13682 BENZENE, 1-(1-CYCLOHEXEN-1-YL)-4-METHOXY-  
 5 13569 PYRROLO[2,3-B]INDOLE, 1,2,3,3A,8,8A-HEXAHYDRO-3A,8-DIMETHYL-, (3AS-\*

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C12.H12.S	188	188	604	735	674
2	C11.H8.O.S	188	188	599	836	644
3	C12.H18.N2	190	188	596	707	719
4	C13.H16.O	188	188	555	743	684
5	C12.H16.N2	188	188	555	744	685

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	16587-33-0
2	---	---	---	---	10245-79-1
3	---	---	---	---	72361-10-5
4	---	---	---	---	20758-60-5
5	---	---	---	---	4089-16-1

Mass	Inten	1	2	3	4	5
39			22	7		
40	5					
42	16					
44				18		
45			26			
50			10			
51		29	10	8	33	
52	15			15		
53				13		
54	15					
56	4					
59	10					
61			11			
62	3		20			
63		16	33			
64	12					
65				11	28	
66	40					
67				12		
69		43				
76	18					
77		28		43	51	8
78	35			35		
79	9	26		93	38	
80	132				28	4
81	11					
89		36				
90	17					
91	7				65	7
92	72	25				
93	11	24				

31 000946  
 027116

94	145	29		23		
100	8					
102	5					
103	3					
104	2					
106	3					
108	4					
114	3					
115	2	190	125		79	10
116		50				
117					48	36
118	3			16		
120				26		
121				16	65	
122	3					
124	1					
128		29	23		46	
129					93	35
130	3					79
131						37
132	11		11	62		
133			20			
134	3	12	37			
136	5					
142	2					
143						26
144						133
145			9		36	110
146	9					26
147	2	24				
156	38					
157	6				19	13
158	66		12		13	98
159	12	12	36	22	73	45
160	70	353	100	62	94	18
161	8	43	20	13	13	
162		17				
168	2					
170	3					
171		71	20			
172		40				
173				39	125	60
179				41		
180				125		
181				26		
182	11					
184	125	70		29		
185	22	50		78		
186	59			91		
187	67	229	49	263	130	135
188	1000	781	1016	615	933	925
189	147	107	37	92	140	141

3 1000947 x

027117

LIBRARY SEARCH  
 83/10/84 19:38:00 + 22:47  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
 CONDOS.: SPB-S 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 ENHANCED (S 1SB 2N 01)

DATA: 1240 #1367  
 CELL: 1240 # 3  
 BASE W/Z: 188  
 RIC: 52671.

1016  
 SAMPLE

34 000948  
 027113

C12.H12.S  
 H MT 1015  
 B PK 188  
 RAKK 1  
 HI 13565  
 PUR 604

DIBENZOTHIOPHENE, 1,2,3,4-TETRAHYDRO-

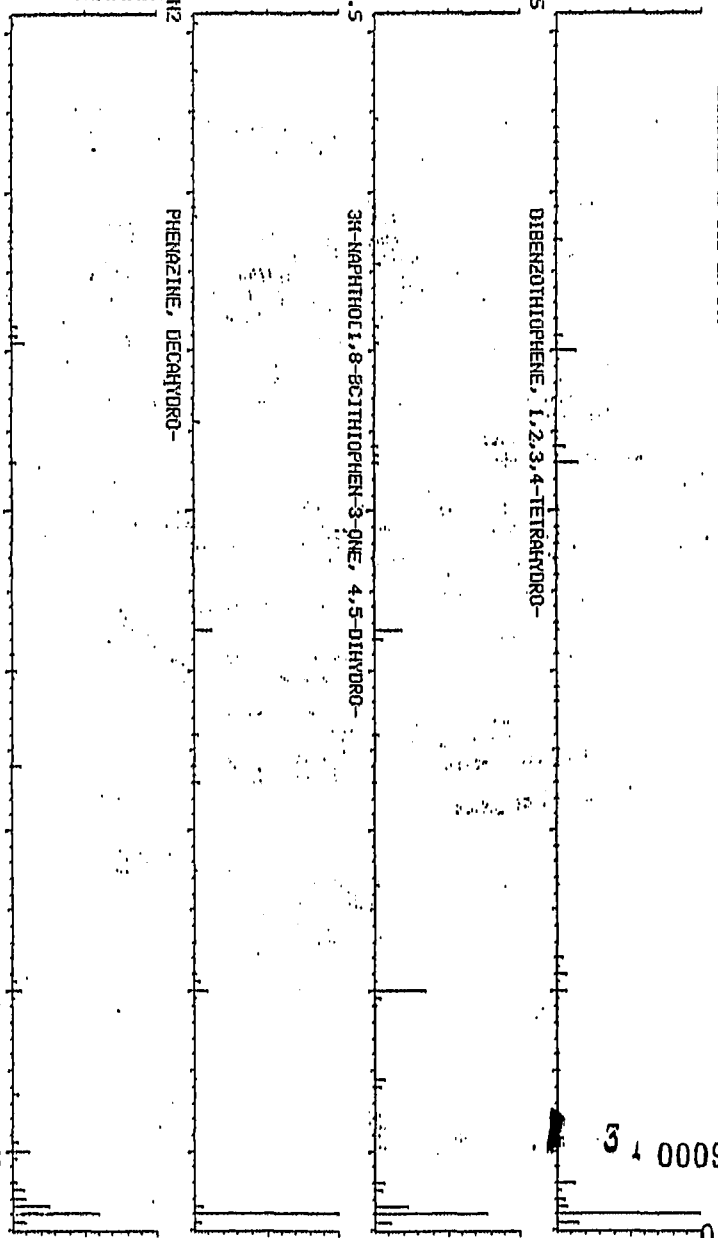
C11.H8.O.S  
 H MT 1015  
 B PK 188  
 RAKK 1  
 HI 13545  
 PUR 599

3H-NAPHTHOL, 8-BCTHIOPHEN-3-ONE, 4,5-DIHYDRO-

C12.H16.H2  
 H MT 1015  
 B PK 188  
 RAKK 1  
 HI 13822  
 PUR 596

PHENAZINE, DECAHYDRO-

M/Z 40 60 80 100 120 140 160 180



Library Search                      Data: 1240 #1449                      Base m/1: 73  
 73/10/84 19:38:00 + 24:09              Cali: 1240 # 3                      RIC: 16927.3  
 Sample: BNA SAMPLE R3579 CASE 2427 1.2UL  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT)

38752 spectra in LIBRARYND searched for maximum PURITY  
 129 matched at least 7 of the 16 largest peaks in the unknown

Rank In.	Name
1	22672 HEXADECANOIC ACID
2	26829 HEXADECANOIC ACID, 1-METHYLETHYL ESTER
3	17483 TRIDECANOIC ACID
4	15410 DODECANOIC ACID
5	19420 TETRADECANOIC ACID

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C16. H32. O2	256	32	803	992	806
2	C19. H38. O2	298	43	603	772	698
3	C13. H26. O2	214	73	536	916	546
4	C12. H24. O2	200	73	528	927	560
5	C14. H28. O2	228	73	521	888	580

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	57-10-3
2	---	---	---	---	142-91-6
3	---	---	---	---	638-53-9
4	---	---	---	---	143-07-7
5	---	---	---	---	544-63-8

Mass	Inten	1	2	3	4	5
29					423	
32		1013				
41	653	508	726	525	715	707
42	142					
43	905	979	1194	771	797	821
45	101					
55	606	561	537	514	548	623
56	151					
57	636	717	575	712	535	575
59	49					
60	820	835	652	978	1039	908
61	209	219				225
69	328	352	407	278	268	330
70	98					
71	338	361	416	275	302	308
73	1000	925	471	1040	1040	1004
74	64					
81	55					
82	44					
83	224	224	360	174	147	215
84	98					
85	218	212	291	246	263	203
87	141			201	155	159
95	28					
96	38					
97	171	168	245	116	99	131
98	94	109	160			
99	60					
101	63					106
102			603			
103			111			

31  
 000949  
 027119

110	21					
111	62	79	103			
112	23					
113	29					
115	115	104	119	167	134	113
116	34					
125	30					
127	19					
129	322	297	241	261	248	308
130	27					
135	23					
138					30	
139	11					
140	12				32	
141	13					
143	35		68	98	45	47
144	17					
150	14					
152	13			21		
154	15			16		
157	88	84	84	31	114	
158	14				13	
166	9					18
167	8					
168	10					15
169	11					
171	86	87	75	144	39	29
172				16		
177	11					
179	9					
180	9					
183	14					
185	87	84	88	48		114
186	12			6	22	16
191	9					
193	11					
194	20	26				
195	7					
196	13	7				
199	30	23	23			16
200					107	
201					14	
208	7					
209	10					
210	4					
213	151	153	53			
214	14	18		209		
215				33		
219						9
220	13					
227	29	30				
228		8				195
229						35
237			6			
239			23			
240			8			
256	451	337	53			
257	55	55	55			
281	7					

31 000950 x

027120

LIBRARY SEARCH  
 03/10/84 19:38:00 + 24:09  
 SAMPLE: BHA SAMPLE R3579 CASE 2422 1.2UL  
 COND5.: SP8-5 30HX0.32MINID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 198 2N 0T)

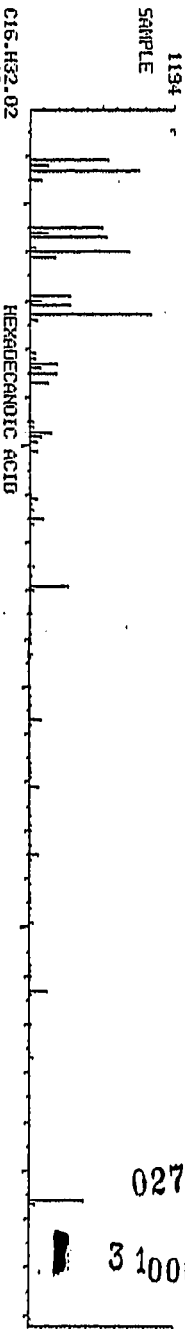
DATA: 1240 #1449  
 CALL: 1240 # 3

BASE WZ: 73  
 RIC: 16927.

027121

3 1000951

1194  
 SAMPLE



C16.H32.02  
 N BT 1194  
 B PK 1296  
 RANK 1398  
 RT 1499  
 PUR 1601  
 1702  
 1803  
 1904

C19.H38.02

HEXADECANOIC ACID, 1-HEPTYLETHYL ESTER

N BT 1194  
 B PK 1296  
 RANK 1398  
 RT 1499  
 PUR 1601  
 1702  
 1803  
 1904

C13.H26.02

TRIDECANOIC ACID

N BT 1194  
 B PK 1296  
 RANK 1398  
 RT 1499  
 PUR 1601  
 1702  
 1803  
 1904

WZ

50 100 150 200 250

Library Search Data: 1240 #1655 Base m/z: 55  
 03/10/84 19:38:00 + 27:35 Cali: 1240 # 3 RIC: 50495.40  
 Sample: BNA SAMPLE R3879 CASE 2427 1.2UL  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TD 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N OT)

38752 spectra in LIBRARYNB searched for maximum PURITY  
 209 matched at least 5 of the 16 largest peaks in the unknown

- Rank In. Name
- 1 14952 AZACYCLOTRIDECAN-2-ONE
  - 2 21164 DODECANAMIDE, N-(2-HYDROXYETHYL)-
  - 3 25688 1-OCTANAMINE, N-NITRO-N-OCTYL-
  - 4 17576 DECANAMIDE, N-(2-HYDROXYETHYL)-
  - 5 11110 2,4-IMIDAZOLIDINEDIONE, 5-(4-HYDROXYBUTYL)-

UNKNOWN

Rank	Formula	M. Wt	B. Pk	Purity	Fit	Rfit
1	C12. H23. O. N	197	41	460	883	460
2	C14. H29. O2. N	243	85	350	621	351
3	C16. H34. O2. N2	286	43	347	793	380
4	C12. H25. O2. N	215	85	344	737	344
5	C7. H12. O3. N2	172	100	344	863	344

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	947-04-6
2	---	---	---	---	142-78-9
3	---	---	---	---	55255-61-3
4	---	---	---	---	7726-08-1
5	---	---	---	---	5458-06-0

Mass	Inten	1	2	3	4	5
18			236		218	
28			131			
29			126		135	164
30	727					
31					218	
39			164			
41	621	832	579	512	595	446
42	224			466		277
43	310	399	351	719	307	791
44	363		403	300	431	
54	71					
55	1000	767	492	265	487	549
56	458	316		442		397
57	186		157	211	155	
58	95					
69	154		140	146	138	
70	126			335		257
72	206	382				
73	73	422				
82	84					38
83	161		22			73
84	366	251		337		
85	270		1149	111	1197	48
86	641	345	67		67	
87	87	261				
96	66					
97	366					
98	375	556	453	292	452	
99	190	205	95		96	109
100	374	564				833
101	57					44

31 000952

027122



110	56					
111	153					
112	904	307	74	329	85	352
113	200					285
114	211	241				25
115	38					
124	17		18		21	
125	24					40
126	150	293	59	69	59	36
127	100					
128	250					
129	27					
138	15				26	
139	17					
140	235	152	286	309	272	
141	187		30	35	27	
142	119			117		48
143	61					
152	89					
153	88					
154	196	169	134	13	130	247
155	45			21	16	35
156	63	105				
166	17		15			
167	8					
168	67	88	60	36	103	
169	56					
170	14					
172	10					11
180	8					
181	82					
182	22	18	46	22	18	
183	13		8			
184	27					
185	13					
196	45		34		43	
197	86	90	5			
198	186	11			18	
199	18					
208	5					
209	4					
210	3		8			
211	6					
223	3					
224			6			
225	8					
226	561		2			
227	76					
228	8					
240				102		
241				19		
244	4					
281	8					
331	2					

31 000953 \*  
027123

LIBRARY SEARCH  
 03/10/84 19:38:00 + 27:35  
 SAMPLE: BNA SAMPLE R3579 CASE 2427 1.2UL  
 COND.S.: SP8-5 30HX8.32XMM10 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 158 2M 017)

DATA: 1240 #1655  
 CALL: 1240 # 3

BASE M/Z: 55  
 RIC: 50494

1149  
 SAMPLE



C12.H23.O.N  
 H AT 1139  
 B PK 41  
 RANK 1  
 IN 14952  
 PUR 460

C14.H29.O2.N

H AT 1143  
 B PK 85  
 RANK 2  
 IN 21154  
 PUR 350

DODECANAMIDE, N-(2-HYDROXYETHYL)-

C16.H34.O2.N2

H AT 1142  
 B PK 43  
 RANK 3  
 IN 25588  
 PUR 347

1-OCTANAMINE, N-NITRO-N-OCTYL-

M/Z

50 100 150 200 250 300

02712

31 000954

Library Search Data: 1240 #1667 Base m/z: 114  
 03/10/84 19:38:00 + 27:47 Cali: 1240 # 3 RIC: 22367  
 Sample: RNA SAMPLE R2579 CASE 2427 1.2UL  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 8MIN  
 Enhanced (S 158 2N OT)

38752 spectra in LIBRARYND searched for maximum PURITY  
 66 matched at least 6 of the 16 largest peaks in the unknown

Rank In. Name *UNKNOWN*  
 1 10697 PIPERAZINE, 2,3-DIMETHYL-5-(2-METHYLPROPYL)-  
 2 8503 1-AZIRIDINEPROPANOL, 2-METHYL-3-(1-METHYLETHYL)-, TRANS-  
 3 15054 MORPHOLINE, 4,4'-ETHENYLIDENE BIS-  
 4 14966 AZIRIDINE, 2-(1,1-DIMETHYLETHYL)-1-HEXYL-3-METHYL-, TRANS-  
 5 5704 2,6-PIPERIDINEDIONE, 3-ETHYL-

Rank	Formula	M.Wt	B.Pk	Purity	Fit	RFit
1	C10.H22.N2	170	114	433	857	447
2	C9.H19.O.N	157	98	374	859	376
3	C10.H18.O2.N2	198	55	356	704	416
4	C13.H27.N	197	56	307	863	309
5	C7.H11.O2.N	141	41	303	677	321

Rank	Ret. Time	B.P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	54410-91-2
2	---	---	---	---	55669-83-5
3	---	---	---	---	14212-87-4
4	---	---	---	---	55669-82-4
5	---	---	---	---	25115-69-9

Mass	Inten	1	2	3	4	5
27			256			
28		306	319			
29			213		170	
30		230				
31			282			
39						229
40		233				79
41	501	301	356	283	445	495
42	186	183	248			362
43	211	232		208	316	
44	267	493			241	
55	536	86	498	543	352	460
56	339	176	457	306	473	212
57	186		162	325	188	
58	89	621				
59	67					
67	83					
69	247				171	144
70	161	337	138		130	257
71	58				136	
72	153					
73	80					
83	55					
84	252	310	260		76	66
85	185			186		358
86	303	79		211		99
87	72			117		
96	121					
97	50					
98	115	73	866		108	41
99	75					

31 000955

027125

100	77				28	
101	71					
111	35					
112	180	171	434	211	223	
113	282	441	95	201		388
114	1000	856	694	62		35
115	89					
122				52		
125	15					
126	119	40	66		78	29
127	71					
128	58		39			
129	62			88		
130	11					
137				188		
138				36		
139	10					
140	153				171	
141	47	23		34	18	
142	74		145			
143	19		13			
144	9					
149		14				
152	9					
153				52		
154	47				72	
155	81	86			8	
156	39					
157	27					
167	7					
168	43				4	
169	36	12		36		
170	35	54				
171	21					
172	8					
180	6					
181	11					
182	12				158	
183	16				21	
184	14					
185	9					
189	6					
195	3					
196					8	
197	13				7	
198	279			252		
199	28			50		
201	5					
203	1					
210	5					
211	3					
225	8					
226	229					
227	24					
244	5					
249	3					

027123

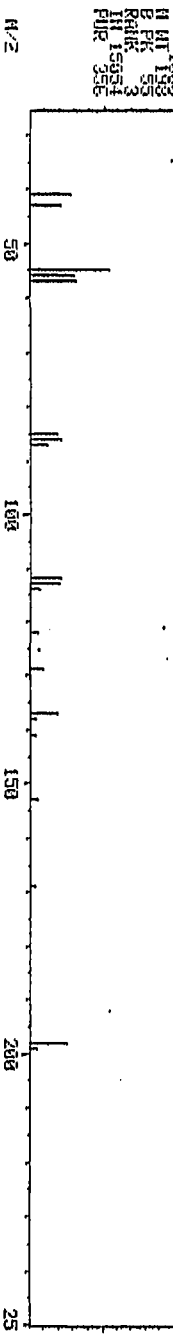
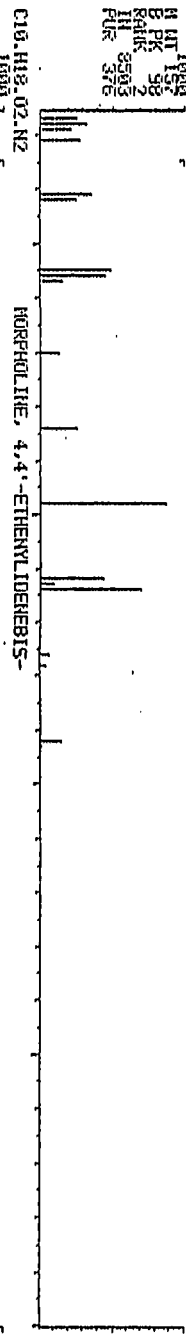
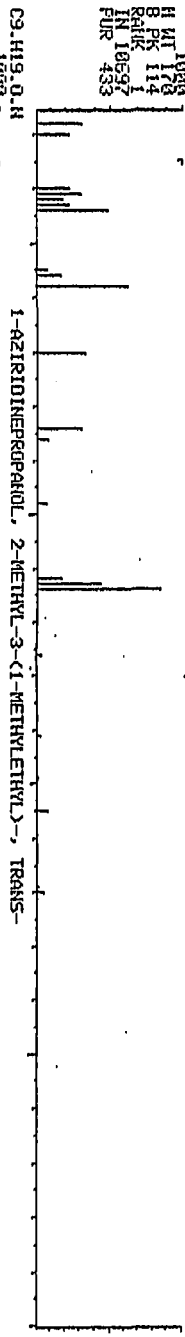
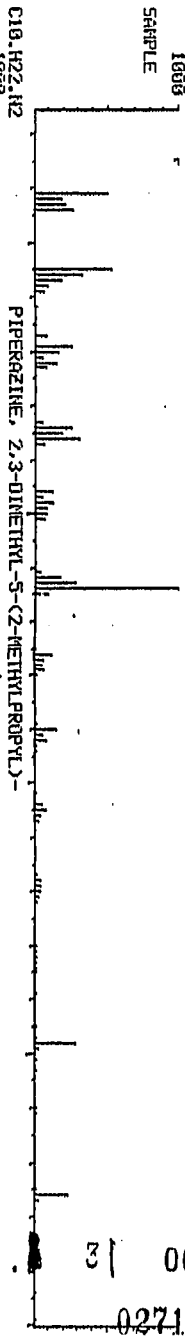
31 000956 \*

LIBRARY SEARCH  
 03/10/84 19:38:00 + 27:47  
 SAMPLE: BHA SAMPLE R3579 CASE 2427 1.2UL  
 COND: 1 SP8-5 30TK0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 158 2N 0T)

DATA: 1240 #1657  
 CALL: 1248 # 3

BASE M/Z: 114  
 RID: 22367.

1000  
 SAMPLE



756000

027127

PESTICIDE DATA REACTION FORM

Case # 2427 Sample # R3579  
 Sample Wt/Vol 1000 gm Final Vol 100 ml  
 % Moisture NA Solid or Liquid L

	Typical RT	Fraction	Dilution	Injection Conc. $\mu\text{g/ml}$	Light Box	Dilution	Rerun	Injection Conc.	Light Box	Second Column	lgt. Box	Sample Conc. $\mu\text{g/l}$
a BHC	3.98	1										
B BHC	4.49	1										
Y BHC	4.67	1										
$\delta$ BHC	5.24	1		0.204	+					NO		
Heptachlor	6.89	1										
Aldrin	8.38	1										
Heptachlor epoxide	10.57	1										
$\alpha$ Endosulfan	13.16	1B2										
Dieldrin	17.47	2										
P.p'-DDE	15.72	1										
Endrin	17.67	2										
B Endosulfan	18.77	3										
P.p'-DDD	20.74	1										
Endrin Aldehyde	21.50	2B3										
Endosulfan Sulfate	24.95	3										
P.p'-DDT	26.72	1										
DBC	47.87	1,2,3		0.554	+							

28.9%

d-BHC Not confirmed on Packed Column.

027128

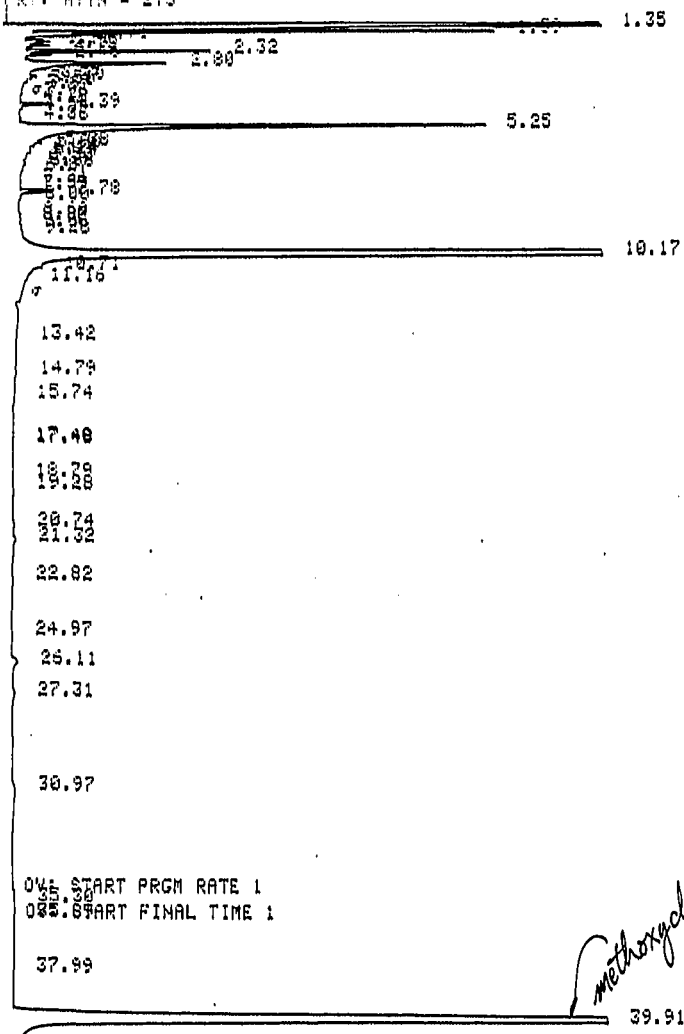
000958

63

EDIT AUTO SEQ 8.94  
PR: AUTO SEQ  
OVEN TEMP NOT READY

R 3579 62  
Pest Analysis

DATE: 11-10-84 11:13 AM  
RUN: ATTN = 215



0% START PRGM RATE 1  
0% START FINAL TIME 1

*methoxychlor IS*

31 000959  
027123

89.99 START PRESSURE 20 CM/MIN  
92.15 FINAL TIME 2

1-10

STOP RUN

KAP 5880A SAMPLER INJECTION 9:11:09 MAR 13, 1984

SAMPLE # 1 ID CODE 1  
91 R3579 6

*Post*

PESTICIDE MIX CALIBRATION CURVE  
STD

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							BASELINE @ START RUN = 314.00
0.00							THRESHOLD @ START RUN = -1
0.00							PEAK WIDTH @ START RUN = 0.00
0.00							RP: REJECT → 1E+06
3.50							RP: REJECT → 20
3.51		37.03	VV	-----		1.135E-03	
3.67		25.15	VV	-----		7.546E-04	
4.39		92.12	BV	0.062		2.763E-03	
5.25	5.25	2871.51	PV	*0.139*	4	0.204	D-SHC
5.88		89.79	VV	-----		2.694E-03	
5.98		40.67	VV	-----		1.220E-03	
6.14		32.76	VV	-----		6.827E-04	
7.78		145.30	VV	0.095		4.359E-03	
10.17		46550.20	VV	*0.106		1.397	
10.71		291.43	VV	-----*		8.443E-03	
11.16		126.21	VV	-----		3.796E-03	
21.32	21.35	25.06	BB	*-----*	14	2.452E-03	ENDRALDEHYDE
26.11		63.85	BB	*-----*		1.916E-03	
27.31		33.84	BB	-----*		1.015E-03	
30.97		56.35	BB	-----*		1.691E-03	
35.30		43.95	BV	-----*		1.319E-03	
39.91	39.91	13412.50 +	BB	0.244*	17	0.353	METHOXYCHLOR
48.81		88.22	BB	0.308		2.647E-03	
50.00							RP: REJECT → 1E+06

MULTIPLIER = 1

31 000960  
027130

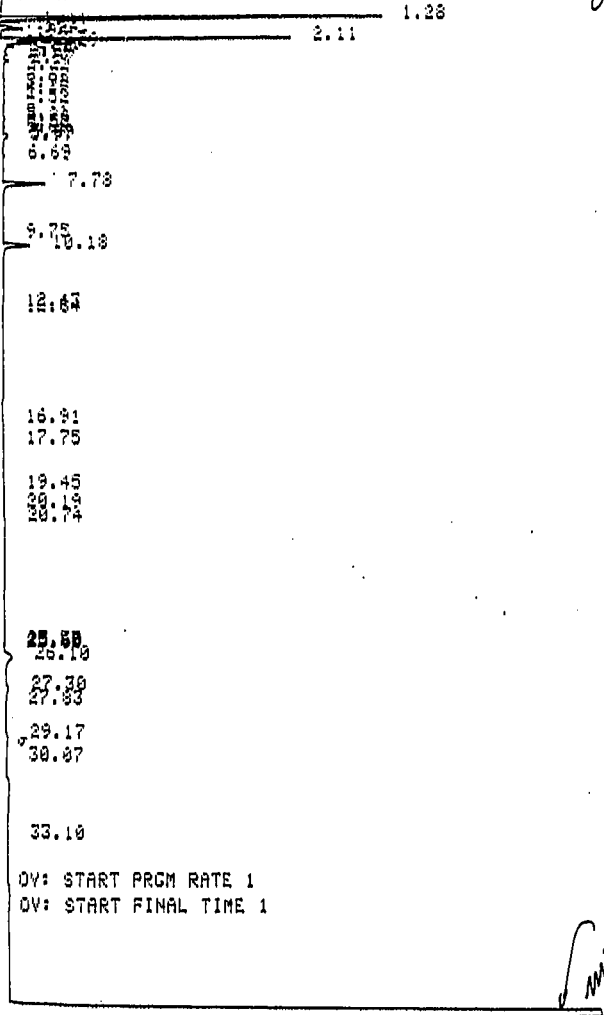
Doc



PR: AUTO SEC  
OVEN TEMP NOT READY

R 3579 15%  
Pest Analysis

071 01:00 0001 01-1-66 275



OV: START PRGM RATE 1  
OV: START FINAL TIME 1

*methoxychlor IS*

027131

31 000961

BT: START BREEDRATE 20 CM/MIN  
OV: START FINAL TIME 1  
59.26.66

120

. RT: STOP RUN

EXP# 5680A SAMPLER INJECTION @ 12:19 MAR 13, 1984

SAMPLE # : ID CODE :

92 R3579 15 *Pest*

PESTICIDE MIX CALIBRATION CURVE

ID

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							
0.00							
0.00							
0.00							
3.50							
7.79		185.35	BB	0.096		5.561E-03	
10.10		136.00	BB	0.112		4.082E-03	
26.10		62.22	BB	*****		2.467E-03	
27.30		31.75	BB	*****		9.524E-04	
29.17		27.99	BV	*****		8.398E-04	
39.91	39.91	16213.90	BB	0.240*	17	0.426	METHOXYCHLOR
48.81		37.55	BB	*****		1.126E-03	
50.00							

BASELINE @ START RUN = 315.12

THRESHOLD @ START RUN = -1

PEAK WIDTH @ START RUN = 0.00

RP: REJECT + 1E+06

RP: REJECT + 20

RP: REJECT + 1E+06

MULTIPLIER = 1

31 000962

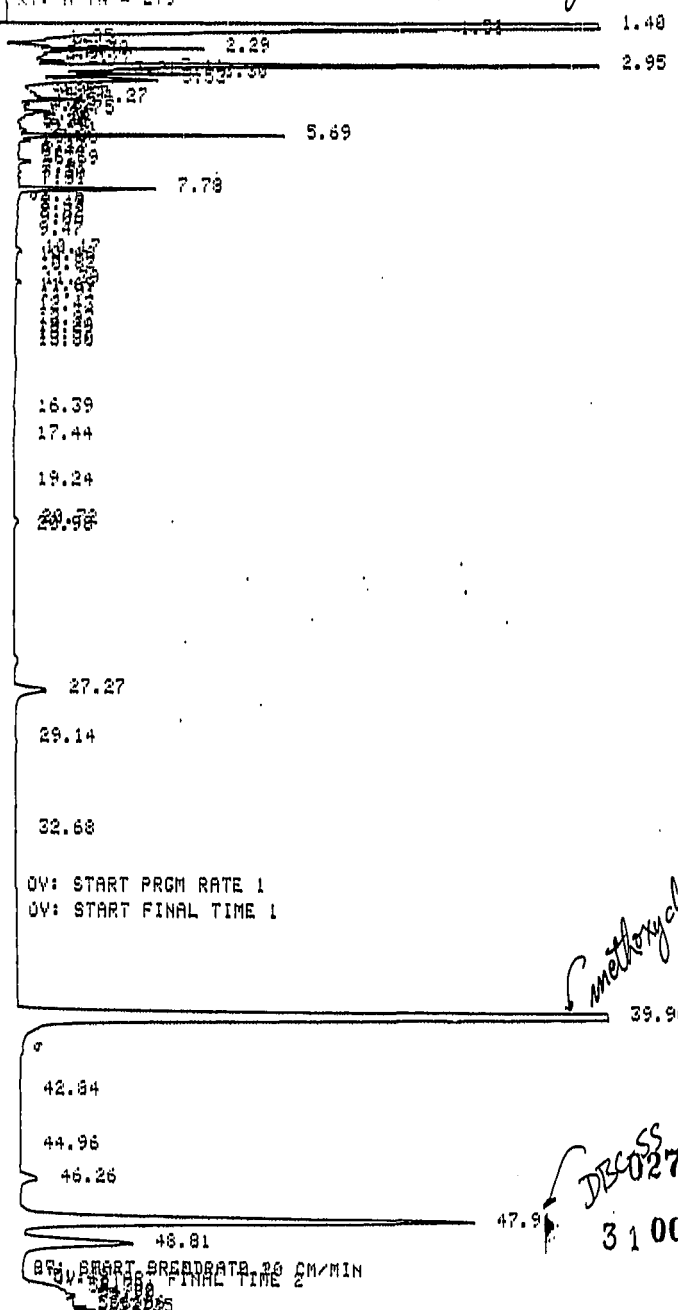
027132

131

PR: AUTO SEQ  
OVEN TEMP NOT READY

R 3579 50%  
Pest Analysis

RT: 31.13 1984  
RT: 31.13 215



OV: START PRGM RATE 1  
OV: START FINAL TIME 1

*methoxychlor IS*

*DISC 027133*

31 000963

RT: 31.13 1984  
RT: 31.13 215

RT: 31.13 1984  
RT: 31.13 215

DATA 5580A SAMPLER INJECTION @ 13:26 MAR 13, 1984

SAMPLE # : 13 005E  
93 R3579 50

*Pest*

PESTICIDE MIX CALIBRATION CURVE  
TD

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							BASELINE @ START RUN = 315.86
0.00							THRESHOLD @ START RUN = -1
0.00							PEAK WIDTH @ START RUN = 0.00
0.00							RP: REJECT + 1E+06
3.50							RP: REJECT + 20
3.53		1287.02	VV	*-----*		3.863E-02	
3.86		99.87	VV	-----		2.996E-03	
4.05		230.56	VV	*-----*		6.917E-03	
4.17		134.11	VV	-----		4.023E-03	
4.27		266.71	VV	-----		8.001E-03	
4.45	4.50	122.11	VV	-----	2	1.200E-02	<del>PP-BHC</del> <i>WTD</i>
4.62		83.88	VV	-----		2.492E-03	
4.75		243.69	VV	*-----*		7.311E-03	
4.96		79.83	VV	-----		2.395E-03	
5.18		28.44	VV	-----		8.531E-04	
5.30	5.25	49.91	VV	-----	4	4.166E-03	<del>PP-BHC</del> <i>WTD</i>
5.50		88.88	VV	-----		2.667E-03	
5.69		848.03	VV	0.070		2.544E-02	
5.88		79.77	VV	-----		2.393E-03	
6.13		28.06	VV	-----		8.418E-04	
6.69		72.70	VB	*-----*		2.181E-03	
7.78		588.07	BP	0.096		1.764E-02	
0.17		43.92	BB	*-----*		1.318E-03	
11.39		28.64	BB	0.110		8.592E-04	
20.72	20.77	35.30	BB	0.173	13	4.427E-03	<del>PP-BHC</del> <i>WTD</i>
27.27		397.75	BB	0.275*		1.163E-02	
29.14		24.19	BB	0.260		7.256E-04	
39.90	39.90	15102.30 +	BV	0.249*	17	0.397	METHOXYCHLOR
46.26		229.03	BB	0.206		6.871E-03	
47.91	47.96	5936.47	BV	*0.293	10	0.554	DIBUTYLCHLOR
48.81		1611.56	VB	0.324*		4.835E-02	
50.00							RP: REJECT + 1E+06

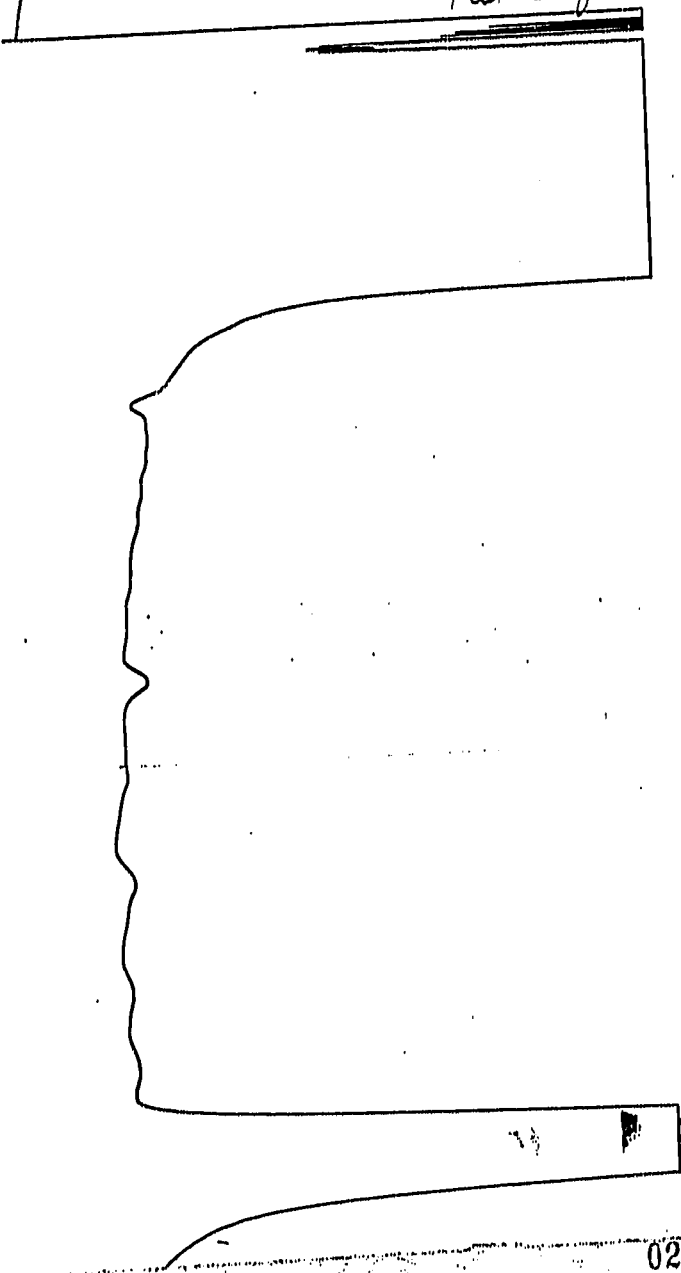
MULTIPLIER = 1

027134

31 000964

123

R3579 6%  
Pest Confirmatory



31 000965

027135

REPORT # 87 13 MAR. 1984 21:30 PEST  
 CHANNEL: 0 METHOD: PEST BOTTLE: 5  
 SAMPLE: R3579 6% INJECTED ON: 13 MAR. 1984 20:40  
 MIN AR MV/M DELAY DVT FACTOR ID-LVL REF-RTW %RTW  
 500 .100 0.00 0.00 1.0000E+0 0 .30 5

NO REF PK FOUND  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	PK%*	NAME
.59		1.00000	493118 BV	7.446	
.76		1.00000	161866 VV	2.444	
.99		1.00000	27354 VV	.413	
1.15		1.00000	24214 VV	.366	
1.27		1.00000	50480 VV	.762	
1.42		1.00000	6511 VV	.098	
1.52		1.00000	8591 VV	.130	
1.99		1.00000	853351 VV	12.961	
2.89		1.00000	283000 VV	4.273	
3.44		1.00000	313268 VV	4.730	
4.14		1.00000	186570 VV	2.817	
4.63		1.00000	304162 VV	4.593	
5.46		1.00000	124192 VV	1.875	
5.88		1.00000	72569 VV	1.096	
6.30		1.00000	441313 VV	6.664	
7.78		1.00000	165334 VV	2.496	
8.37		1.00000	197372 VV	2.980	
10.38		1.00000	1545116 VV	23.331	
16.01		1.00000	11862 VB	.179	
25.35		1.00000	6316 BV	.095	
28.80		1.00000	1381 BV	.021	
33.01		1.00000	9006 VV	.136	
37.29		1.00000	4015 VV	.061	
40.29		1.00000	5161 VV	.078	
43.81		1.00000	1321587 VB	19.955	

DENC

TOTAL AREA = 6622709

31 000966

027136

R3579  
Confirmatory Column

ATTN 64

31 000967

027137

REPORT # 95      15 MAR, 1984 13:20      PEST  
 CHANNEL: 0      METHOD: PEST      TITLE: 4  
 SAMPLE: R3579      INJECTED ON: 15 MAR, 1984 12:30  
 MIN AR    MV/M    DELAY    DVT      FACTOR    ID-LVL    REF-RTW    %RTW  
 500      .100    0.00    0.00    1.0000E+0    0      .30      5

NO REF PK FOUND

PT	ITM	FACTOR	AREA	MAREA	NAME
.59		1.00000	414285 YV	4.781	
.76		1.00000	156600 YV	1.807	
1.01		1.00000	31274 YV	.361	
1.16		1.00000	27040 YV	.312	
1.28		1.00000	48722 YV	.562	
1.43		1.00000	3196 YV	.095	
1.54		1.00000	9333 YV	.108	
2.00		1.00000	445690 YV	5.144	
5.88		1.00000	2459833 YV	28.388	
14		1.00000	1726986 YV	20.623	
5.25		1.00000	1753426 YV	20.236	
10.42		1.00000	1388226 YV	16.021	
28.86		1.00000	113647 YV	1.312	
9.97		1.00000	18011 YV	.209	
43.70		1.00000	3638 YV	.042	

TOTAL AREA = 8664910

31 000968

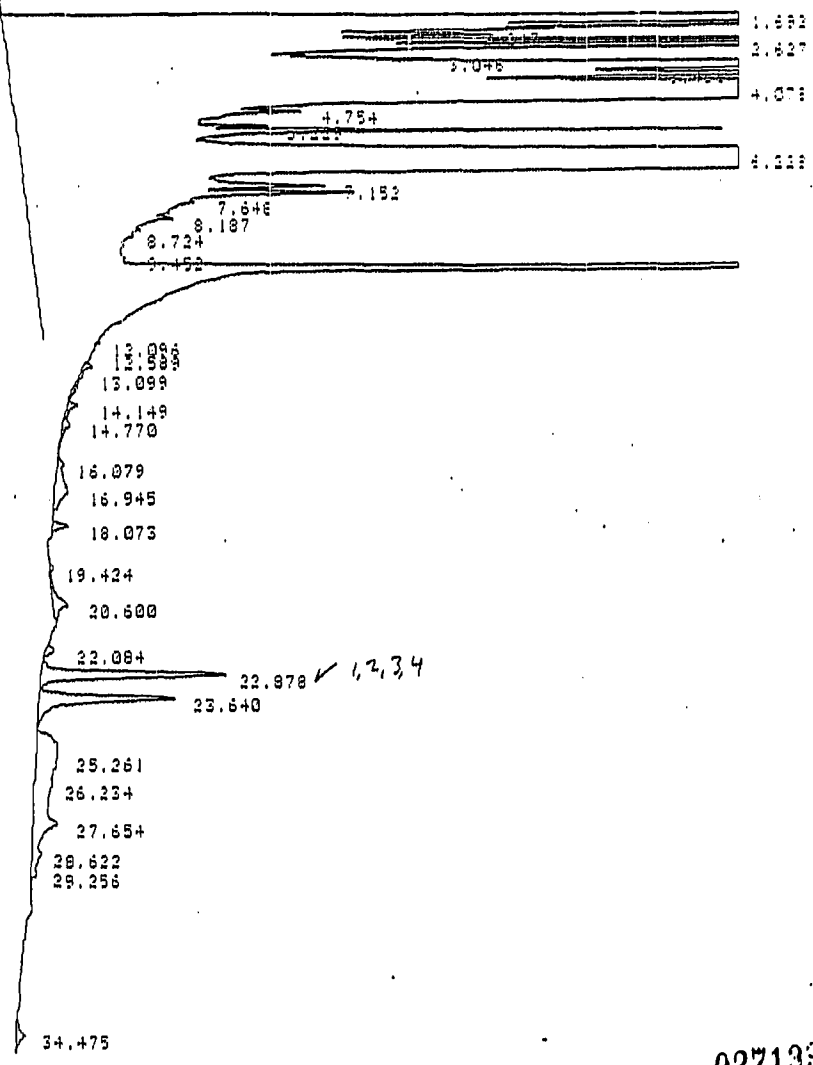
027138



107

R3579  
TCDD

HEAT SPEED 0.6 CM MIN  
M: 5+ REPO: 5%



027139

31 000969

TITLE: CASE 2437 TODD

8114 14 MAR 84

CHANNEL NO: 1

SAMPLE: P 3579

METHOD: TODD

PEM. NO	PEM. NAME	RESULT	TIME (MIN)	AREA (COUNTS)	SEC CODE
1		15.12	1.852	8633750	SV
2		2.07	1.852	910123	VV
3		0.72	2.073	244529	VV
4		0.32	2.247	145629	VV
5		0.48	2.292	200348	VV
6		1.62	2.428	742493	VV
7		2.91	2.627	1279160	VV
8		0.22	2.927	35644	VV
9		0.48	3.046	202977	VV
10		2.70	3.177	1195090	VV
11		0.15	3.300	663300	VV
12		1.07	3.357	468062	VV
13		0.30	3.466	130948	VV
14		2.19	3.541	962724	VV
15		17.30	4.078	7533960	VV
16		0.91	4.754	400209	VV
17		0.22	5.074	96209	VV
18		0.25	5.229	151204	VV
19		1.24	5.347	546327	VV
20		14.19	6.258	6224430	VV
21		14.93	6.268	6508910	VV
22		1.00	7.152	440629	VV
23		0.87	7.365	330264	VV
24		0.64	7.646	279145	VV
25		0.21	7.971	91329	VV
26		0.55	8.187	239861	VV
27		0.22	8.543	97276	VV
28		0.29	8.724	129298	VV
29		0.27	9.017	119082	VV
30		0.35	9.452	144541	VV
31		14.09	9.752	6182370	VV
32		0.01	12.914	4945	T
33		0.01	13.099	3458	T
34		0.01	13.469	2763	T
35		0.02	14.149	9464	T
36		0.03	14.770	12245	T
37		0.02	16.079	7972	BV
38		0.12	16.945	50869	VV
39		0.05	18.073	13329	VB
40		0.02	19.424	7213	BV
41		0.08	20.600	37057	VB
42		0.02	22.064	3629	BV
43		0.49	22.878	216398	VV
44		0.41	23.640	181437	VV
45		0.34	25.261	147976	VV
46		0.19	26.224	82990	VV
47		0.17	27.654	75460	VV
48		0.05	28.622	20759	VV
49		0.02	29.256	6857	VB
50		0.04	34.475	16934	BB

TOTALS: 100.02 43904900

MULTIPLIER: 1.00000

RACK: 8 VIAL: 7 INJ: 1

ERRORS: ADC OVERANGE

NOTES:  
 COLUMN: DB-5 CAPILLARY  
 DETECTOR: ECD  
 OVEN TEMP PROGRAM: ISOTHERMAL @ 195°C  
 TIME: 35.00 MINUTES  
 SPLITTER: HE CARRIER, N2 MAKEUP  
 DETECTOR TEMP: 300°C, INJECTOR TEMP: 250°C

31 000970

027140

Sample Number  
**R3580**

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: VERSAR INC. Case No: 2427  
 Lab. Sample ID No: 5812 QC Report No: 2427  
 Sample Matrix: LOW LEVEL AQUEOUS Contract No: 68-01-6756 (224) - 68-01-6757 (225)  
 Data Release Authorized By: [Signature] Date Sample Received: 2-17-84

SEMIVOLATILE COMPOUNDS

CONCENTRATION: LOW, MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 2-17-84  
 DATE ANALYZED: 03-10-84  
 PERCENT MOISTURE: At R  
 CONC./DILUTION FACTOR: 10X

FP #	CAS #	Compound Name	Conc. (ug/l or ug/kg)	FP #	CAS #	Compound Name	Conc. (ug/l or ug/kg)
(21A)	88-06-2	2,4,6-trichlorophenol	10 u	(52B)	87-68-3	hexachlorobutadiene	10 u
(22A)	59-50-7	p-chloro-m-cresol	10 u	(53B)	77-47-8	hexachlorocyclooctadiene	10 u
(24A)	95-57-8	2-chlorophenol	10 u	(54B)	78-39-1	isobutene	10 u
(31A)	120-83-2	2,4-dichlorophenol	10 u	(55B)	91-20-3	naphthalene	10 u
(34A)	105-67-9	2,6-dimethylphenol	10 u	(56B)	98-93-3	nitrobenzene	10 u
(57A)	88-75-9	2-nitrophenol	20 u	(62B)	86-30-6	N-nitrosodiphenylamine	10 u
A)	100-02-7	4-nitrophenol	50 u	(63B)	621-64-7	N-nitrosodipropylamine	10 u
(59A)	51-28-5	2,6-dinitrophenol	50 u	(66B)	117-81-7	bis(2-methylhexyl) phthalate	10 u
(60A)	338-52-1	4,6-dinitro-2-methylphenol	20 u	(67B)	85-63-7	benzyl butyl phthalate	10 u
(64A)	87-86-5	penta-chlorophenol	10 u	(68B)	88-78-2	di-n-butyl phthalate	10 u
(65A)	108-93-2	phenol	10 u	(69B)	117-81-0	di-n-octyl phthalate	10 u
	65-83-0	benzoic acid	100 u	(70B)	84-66-2	diethyl phthalate	10 u
	95-88-7	2-methylphenol	5 u	(71B)	131-11-3	dimethyl phthalate	10 u
	108-39-4	4-methylphenol	5 u	(72B)	56-35-3	benzofluoranthrene	10 u
	95-95-4	2,4,5-trichlorophenol	100 u	(73B)	50-32-8	benzofluorene	20 u
(11B)	83-32-9	acenaphthene	10 u	(74B)	205-99-2	benzofluoranthrene	20 u
(5B)	92-87-5	benzidine	40 u	(75B)	207-08-9	benzofluoranthrene	20 u
(8B)	120-82-1	1,2,4-trichlorobenzene	10 u	(76B)	218-01-9	chrysene	20 u
(9B)	118-78-1	hexachlorobenzene	10 u	(77B)	208-96-8	acenaphthylene	10 u
(12B)	67-72-1	hexachloroethane	10 u	(78B)	120-12-7	anthracene	10 u
(18B)	111-84-4	bis(2-chloroethyl) ether	10 u	(79B)	191-24-2	benzofluoranthrene	20 u
(20B)	91-58-7	2-chloronaphthalene	10 u	(80B)	86-73-7	fluorene	10 u
(25B)	95-50-1	1,2-dichlorobenzene	10 u	(81B)	85-01-8	phenanthrene	10 u
(26B)	94-73-1	1,3-dichlorobenzene	10 u	(82B)	53-70-3	dibenzofluoranthrene	20 u
(27B)	106-46-7	1,4-dichlorobenzene	10 u	(83B)	193-39-5	indeno(1,2,3-cd)pyrene	20 u
(28B)	91-94-1	3,3'-dichlorobenzidine	20 u	(84B)	129-00-0	pyrene	10 u
(35B)	121-14-2	2,4-dinitrotoluene	20 u		62-53-3	aniline	9 u
(36B)	606-70-2	2,6-dinitrotoluene	20 u		100-51-6	benzyl alcohol	20 u
(37B)	127-66-7	1,2-diphenylhydrazine	20 u		106-47-8	4-chloroaniline	50 u
3B)	206-44-0	fluoranthene	10 u		132-64-9	dibenzofuran	10 u
(40B)	7005-72-3	4-chlorophenyl phenyl ether	10 u		91-57-6	2-methylnaphthalene	20 u
(41B)	101-55-3	4-bromophenyl phenyl ether	10 u		88-78-4	2-nitroaniline	100 u
(42B)	39638-32-9	bis(2-chloroisopropyl) ether	20 u		99-09-2	3-nitroaniline	100 u
(43B)	111-91-1	bis(2-chloroethoxy) methane	20 u		100-01-6	4-nitroaniline	100 u

027841  
 3 000971 July 1983

Sample Number  
**R3580**

ORGANICS ANALYSIS DATA SHEET

Laboratory Name: VERSAR INC.  
 Lab Sample ID No: 5811a  
 Sample Matrix: LOW LEVEL AQUEOUS  
 Data Release Authorized By: AP

Case No: 2427  
 QC Report No: 2427  
 Contract No: 68-01-5756 (324) - 68-01-6757 (825)  
 Date Sample Received: 2-17-84

**VOLATILES**

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 2-22-84  
 DATE ANALYZED: 2-22-84  
 PERCENT MOISTURE: ---

CONC./DILUTION FACTOR --- <sup>(u/l)</sup>  
 or <sup>(ug/kg)</sup>

PP #	CAS #	NAME	CONC.
(2V)	107-02-8	acrolein	100 u
(3V)	107-13-1	acrylonitrile	100 u
(4V)	71-43-2	benzene	5 u
(6V)	56-23-5	carbon tetrachloride	5 u
(7V)	108-90-7	chlorobenzene	5 u
(10V)	107-06-2	1,2-dichloroethane	1 u
(11V)	71-55-6	1,1,1-trichloroethane	5 u
(13V)	75-34-3	1,1-dichloroethane	5 u
(14V)	75-00-3	1,1,2-trichloroethane	5 u
(15V)	75-34-3	1,1,2,2-tetrachloroethane	10 u
(16V)	75-00-3	chloroethane	10 u
(19V)	110-75-8	2-chloroethylvinyl ether	10 u
(23V)	67-66-3	chloroform	5 u
(29V)	75-35-4	1,1-dichloroethene	5 u
(30V)	156-60-3	trans-1,2-dichloroethene	5 u
(32V)	78-87-5	1,2-dichloropropane	10 u
(33V)	10061-02-6	trans-1,3-dichloropropene	5 u
	10061-01-05	cis-1,3-dichloropropene	5 u
(38V)	100-41-4	ethylbenzene	5 u
(40V)	75-09-2	methylene chloride	5 u
(45V)	78-87-3	chloromethane	10 u
(46V)	78-83-9	bromomethane	10 u
(47V)	75-25-2	bromoform	10 u
(48V)	75-27-4	bromodichloromethane	5 u
(49V)	75-69-4	fluorotrichloromethane	5 u
(50V)	75-71-8	dichlorodifluoromethane	5 u
(51V)	128-48-1	chlorodibromomethane	5 u
(85V)	127-18-4	tetrachloroethene	5 u
(86V)	108-88-3	toluene	5 u
(87V)	79-01-6	trichloroethene	5 u
(88V)	75-01-4	vinyl chloride	10 u
	67-68-1	acetone	5 u
	78-93-3	2-butanone	5 u
	75-15-0	carbonyl sulfide	1 u
	519-78-6	2-hexanone	5 u
	108-10-1	4-methyl-2-pentanone	5 u
	100-42-3	styrene	5 u
	108-05-4	vinyl acetate	5 u
	1330-20-7	total xylenes	5 u

**PESTICIDES**

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 2-20-84  
 DATE ANALYZED: 3-13-84  
 PERCENT MOISTURE: ---

CONC./DILUTION FACTOR 10 - 10 ml <sup>(u/l)</sup>  
 or <sup>(ug/kg)</sup>

PP #	CAS #	NAME	CONC.
(89P)	309-00-2	aldrin	0.005u
(90P)	60-57-1	dieldrin	0.005u
(91P)	57-78-9	chlordane	0.050u
(92P)	50-29-3	4,4'-DDT	0.010u
(93P)	72-55-9	4,4'-DDE	0.005u
(94P)	72-36-8	4,4'-DDD	0.010u
(95P)	115-29-7	4'-endosulfan	0.005u
(96P)	115-29-7	4'-endosulfan	0.005u
(97P)	1031-07-8	endosulfan sulfate	0.010u
(98P)	72-20-8	endrin	0.005u
(99P)	7421-93-4	endrin aldehyde	0.010u
(100P)	76-84-8	heptachlor	0.005u
(101P)	1024-57-3	heptachlor epoxide	0.005u
(102P)	319-84-6	4'-BHC	0.005u
(103P)	319-85-7	4-BHC	0.005u
(104P)	319-86-8	5-BHC	** 0.055
(105P)	38-89-9	4-BHC (lindane)	0.005u
(106P)	53469-21-9	PCB-1242	0.050u
(107P)	11097-69-1	PCB-1234	0.100u
(108P)	11104-28-2	PCB-1221	0.100u
(109P)	11141-16-5	PCB-1232	0.100u
(110P)	12673-29-6	PCB-1288	0.100u
(111P)	11096-82-5	PCB-1260	0.200u
(112P)	12674-11-2	PCB-1016	0.050u
(113P)	8001-35-2	toxaphene	0.050u

(1) D-BHC FSCC ID - tentatively confirmed on packed column WFD  
 DIOXINS

CONCENTRATION: LOW MEDIUM HIGH (circle one)  
 DATE EXTRACTED/PREPARED: 2-20-84  
 DATE ANALYZED: 3-13-84  
 PERCENT MOISTURE: ---

CONC./DILUTION FACTOR 1000 - 5 <sup>(u/l)</sup>  
 or <sup>(ug/kg)</sup>

PP #	CAS #	NAME	CONC.
(129B)	1746-01-6	2,3,7,8-tetrachlorodibenzo-p-dioxin	0.005u

July 1983

3 000972 X

027142

Sample Number  
K3580

Laboratory Name: VERSAR INC. Case No: 2427  
 QC Report No: 2427

**B. Tentatively Identified Compounds**

CAS #	Compound Name	Fraction	Scan No. or Retention Time	% Maximum Score Attained Mass Matching Routine (Specify: _____)	Estimated Concentration (ug/L or ug/kg)
1.	<i>None Detected</i>				
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
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28.					
29.					
30.					

4/82

31 000973

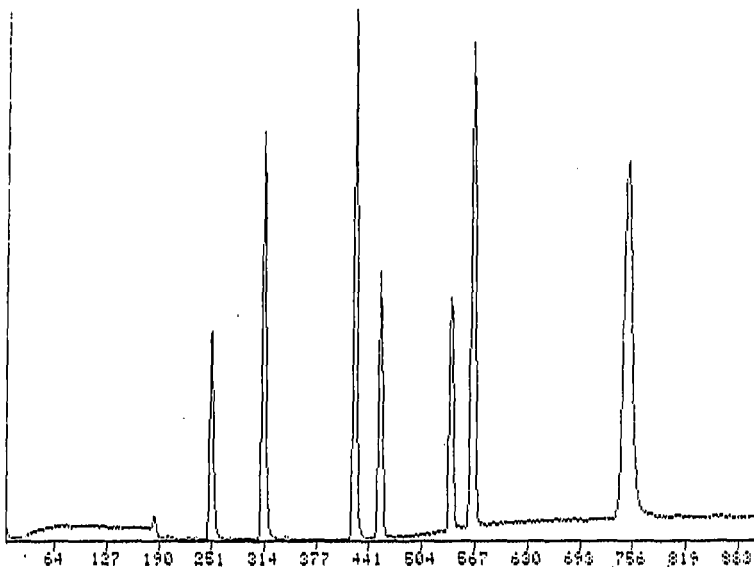
027143

NAME: VOA : AMFLC#88140 SML EPA#R3580 CASE 3437  
 MISC: 24998 33 10019 824 1134 2 22'84 MB: PM

FRN 24998

26530

TI



AREA TABLE ENTRIES: FRN 24998

Entry	Time	Mass	Area	% x R.F. = conc. (mg/L)
1	10.7	127.7	7091.	100.0
2	13.0	64.7	25552.	360.4 x 0.277 = 100.
3	17.3	40.7	595.	8.4 below reporting level

*MS*

*OK BB 3/2/84  
MS - methylmercaptide*

IS  
SS

CALCULATE % ON ENTRY #1

AREA TABLE ENTRIES: FRN 24998

Entry	Time	Mass	Area	%
1	18.4	76.7	13692.	100.0
2	17.3	83.7	46111.	336.8 x 0.304 = 102

IS  
SS

CALCULATE % ON ENTRY #1

AREA TABLE ENTRIES: FRN 24998

Entry	Time	Mass	Area	%
1	21.7	54.7	14288.	100.0
2	22.7	97.7	36201.	253.5 x 0.427 = 108.
3	30.0	94.7	38458.	269.3 x 0.419 = 113.

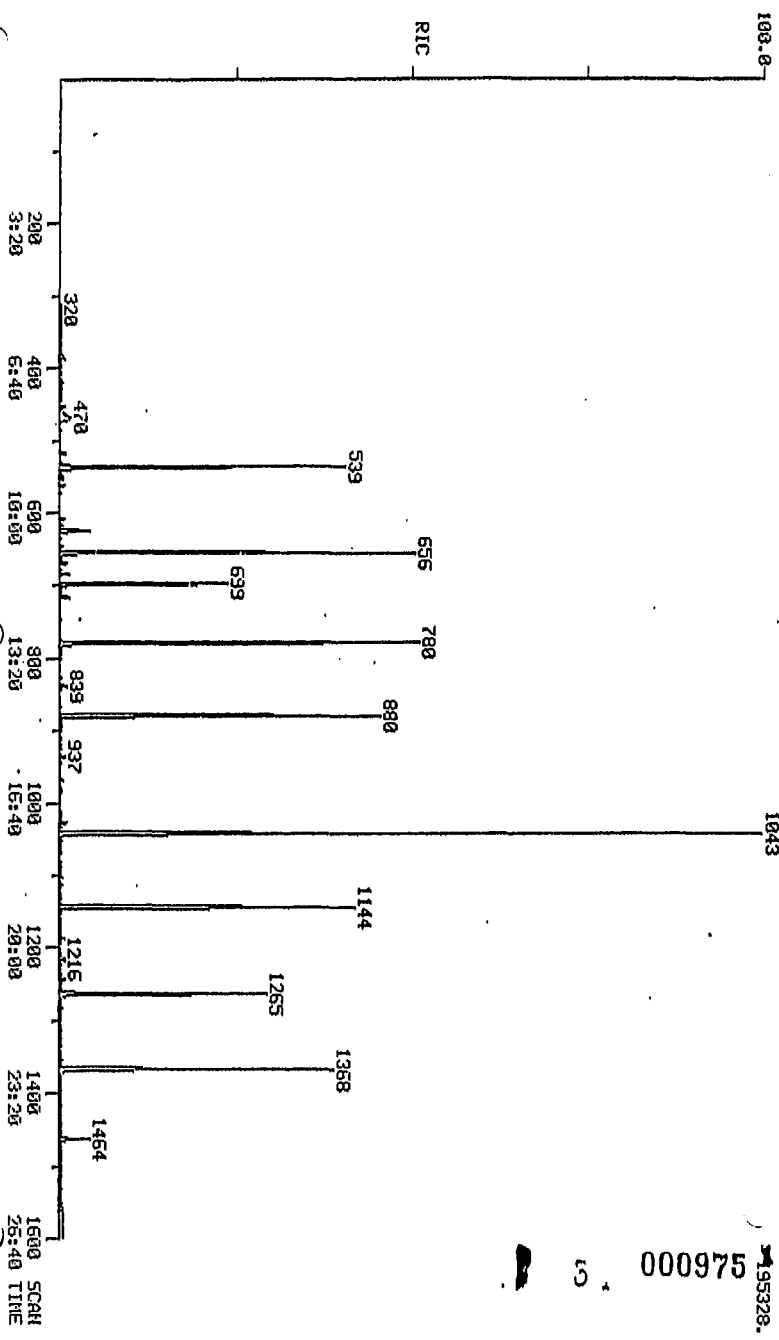
IS  
SS  
SS

CALCULATE % ON ENTRY #1

3, 000974 X

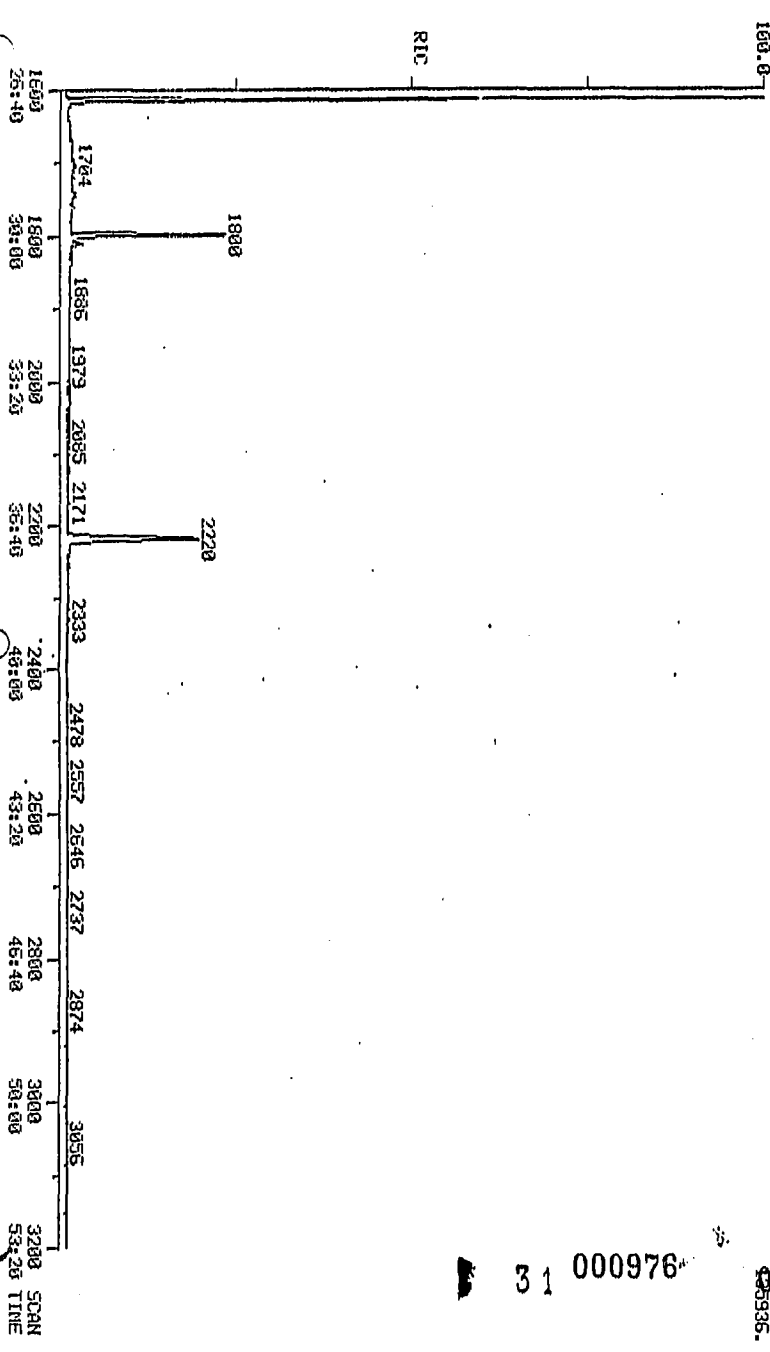
027144

RIC  
 03/10/84 20:42:00 E 3500/1000  
 SAMPLE: BHA SAMPLE RESEARCH CASE 2427 1.2UL  
 COND.: SPB-5 30KHZ 32MMID 1.0UMDF 30C/4MIN TO 280C/10C/MIN HOLD 25MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 1043  
 DATA: 1241 #1 SCANS TO 1600  
 CALL: 1237 #3  
 195328.



5 000975 027145

RIC  
 03/10/84 20:42:00 P2510  
 SAMPLE: BRQ SAMPLE RESEARCH CASE 2427 1.2UL  
 COND5.: SRB-5 30HT0.32MMID 1.0UMDF 30C/AMIN TO 280C@10C/MIN HOLD 25MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3  
 DATA: 1241 #1 SCANS 1600 TO 3200  
 CALL: 1237 #3



31 000976

027146  
05935

3200 SCAN  
53:20 TIME



Quantitation Report File: 1241

Data: 1241.TI  
03/10/84 20:42:00 *R3504P*  
Sample: BNA SAMPLE ~~12540~~ CASE 2427 1.2UL  
Submitted by: VERBAR Analyst: SEP

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

NONE DETECTED.

NO LIBRARY SEARCHES.

- NO NAME
- 1 1,4-DICHLORO BENZENE D4 \*\*\*INTERNAL STANDARD#1\*\*\*
- 2 N-NITROSODIMETHYLAMINE
- 3 ANILINE
- 4 2-CHLOROPHENOL
- 5 PHENOL
- 6 BIS(2-CHLOROETHYL)ETHER
- 7 1,3-DICHLORO BENZENE
- 8 1,4-DICHLORO BENZENE
- 9 1,2-DICHLORO BENZENE
- 10 BENZYL ALCOHOL
- 11 BIS(2-CHLOROISOPROPYL)ETHER
- 12 2-METHYLPHENOL
- 13 HEXACHLOROETHANE
- 14 4-METHYLPHENOL
- 15 N-NITROSO-DI-N-PROPYLAMINE
- 16 NITROBENZENE
- 17 NAPHTHALENE D8 \*\*\*INTERNAL STANDARD#2\*\*\*
- 18 ISOPHORONE
- 19 2-NITROPHENOL
- 20 2,4-DIMETHYLPHENOL
- 21 BIS(2-CHLOROETHOXY)METHANE
- 22 2,4-DICHLOROPHENOL
- 23 1,2,4-TRICHLORO BENZENE
- 24 NAPHTHALENE
- 25 BENZOIC ACID
- 26 4-CHLOROANILINE
- 27 HEXACHLOROBUTADIENE
- 28 4-CHLORO-M-CRESOL
- 29 2-METHYLNAPHTHALENE
- 30 ACENAPHTHENE D10 \*\*\*INTERNAL STANDARD#3\*\*\*
- 31 HEXACHLOROCYCLOPENTADIENE
- 32 2,4,6-TRICHLOROPHENOL
- 33 2,4,5-TRICHLOROPHENOL
- 34 2-CHLORONAPHTHALENE
- 35 2-NITROANILINE
- 36 ACENAPHTHYLENE
- 37 DIMETHYLPHTHALATE
- 38 2,6-DINITROTOLUENE
- 39 ACENAPHTHENE
- 40 3-NITROANILINE
- 41 2,4-DINITROPHENOL
- 42 DIBENZOFURAN
- 43 4-NITROPHENOL
- 44 2,4-DINITROTOLUENE
- 45 FLUORENE
- 46 4-CHLOROPHENYLPHENYLETHER
- 47 DIETHYLPHTHALATE
- 48 4-NITROANILINE
- 49 4,6-DINITRO-O-CRESOL
- 50 DIPHENYLAMINE

31 000977 X  
027147

1241

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	699	11:39	1	1.000	A BB	17470.	24.000 NG/UL	33.01
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	NOT FOUND								
17	136	880	14:40	17	1.000	A BB	86017.	24.000 NG/UL	33.01
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	164	1144	19:04	30	1.000	A BB	50381.	24.000 NG/UL	33.01
31	NOT FOUND								
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								
<del>50</del>	<del>167</del>	<del>1244</del>	<del>20:44</del>	<del>30</del>	<del>1.007</del>	<del>A BB</del>	<del>673.</del>	<del>ND 0.768 NG</del>	<del>1.06</del>

31000978 \*  
027148

Quantitation Report File: 1241

Data: 1241.TI  
03/10/84 20:42:00 *R35804*  
Sample: BNA SAMPLE ~~R2540~~ CASE 2427 1.2UL  
Submitted by: VERSAR Analyst: SEP

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

NO	NAME
51	PHENANTHRENE D10 ***INTERNAL STANDARD#4***
52	1,2-DIPHENYLHYDRAZINE
53	4-BROMOPHENYLPHENYLETHER
54	HEXACHLOROBENZENE
55	PENTACHLOROPHENOL
56	PHENANTHRENE
57	ANTHRACENE
58	DIBUTYLPHTHALATE
59	FLUDRANTHENE
60	BENZIDINE
61	PYRENE
62	CHRYSENE D12***INTERNAL STANDARD#5***
63	BUTYL BENZYL PHTHALATE
64	BENZO(A)ANTHRACENE
65	CHRYSENE
66	3,3'-DICHLOROBENZIDINE
67	BIS(2-ETHYLHEXYL)PHTHALATE
68	BENZO(A)PYRENE D12 ***INTERNAL STANDARD#6***
69	DIOCTYLPHTHALATE
70	BENZO(B)FLUDRANTHENE
71	BENZO(K)FLUDRANTHENE
72	BENZO(A)PYRENE
73	INDENO(1,2,3-CD)PYRENE
74	DIBENZO(A,H)ANTHRACENE
75	BENZO(GHI)PERYLENE

31 000979 \*

027143

1241

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	188	1368	22:48	51	1.000	A BB	78467.	24.000 NG/UL	23.62
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								
<del>58</del>	<del>147</del>	<del>1464</del>	<del>24:24</del>	<del>51</del>	<del>1.070</del>	<del>A BB</del>	<del>11017.</del>	<del>3.984 NG</del>	<del>3.92</del>
59	NOT FOUND								
60	NOT FOUND								
61	NOT FOUND								
62	240	1800	30:00	62	1.000	A BB	32427.	24.000 NG/UL	23.62
63	NOT FOUND								
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								
<del>67</del>	<del>147</del>	<del>1811</del>	<del>30:11</del>	<del>62</del>	<del>1.000</del>	<del>A BB</del>	<del>2633.</del>	<del>1.427 NG</del>	<del>1.60</del>
68	264	2220	37:00	68	1.000	A BB	56640.	48.000 NG/UL	47.25
69	NOT FOUND								
70	NOT FOUND								
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								

3: 000980 X  
027150

Quantitation Report File: 1241G

Data: 1241.T1  
 03/10/84 20:42:00 *R3580 SEP*  
 Sample: BNA SAMPLE-R3540 CASE 2427 1.2UL  
 Submitted by: VERSAR Analyst: SEP

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)\* 1.670  
 Resp. fac. from linear fit to the 3 closest data points in..RL

- NO NAME
- 1 1,4-DICHLOROBENZENE D4 \*\*\*INTERNAL STANDARD#1\*\*\*
  - 2 2-FLUOROPHENOL \*ACID SURROGATE\*
  - 3 PHENOL D5 \*ACID SURROGATE\*
  - 4 NAPHTHALENE D8 \*\*\*INTERNAL STANDARD#2\*\*\*
  - 5 NITROBENZENE D5 \*BN SURROGATE\*
  - 6 ACENAPHTHENE D10 \*\*\*INTERNAL STANDARD#3\*\*\*
  - 7 2-FLUOROBIPHENYL \*BN SURROGATE\*
  - 8 PHENANTHRENE D10 \*\*\*INTERNAL STANDARD#4\*\*\*
  - 9 2,4,6-TRIBROMOPHENOL \*ACID SURROGATE\*
  - 10 CHRYSENE D12\*\*\*INTERNAL STANDARD#5\*\*\*
  - 11 P-TERPHEYL D14 \*BN SURROGATE\*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	699	11:39	1	1.000	A BB	17470.	40.080 NG/UL	6.42
2	112	539	8:59	1	0.771	A BV	62415.	83.126 NG	13.31
3	99	656	10:56	1	0.938	A BB	80131.	81.501 NG	13.05
4	136	880	14:40	4	1.000	A BB	86017.	40.080 NG/UL	6.42
5	82	780	13:00	4	0.886	A BB	62181.	70.763 NG	11.33
6	164	1144	19:04	6	1.000	A BB	50381.	40.080 NG/UL	6.42
7	172	1043	17:23	6	0.912	A BB	136458.	61.386 NG	9.83
8	188	1368	22:48	8	1.000	A BB	78467.	40.080 NG/UL	6.42
9	330	1264	21:04	8	0.924	A BB	21932.	59.535 NG	9.54
10	240	1800	30:00	10	1.000	A BB	32427.	40.080 NG/UL	6.42
11	244	1614	26:54	10	0.897	A BB	137836.	67.635 NG	10.83

3 000981 x  
 027151

PESTICIDE DATA REDUCTION FORM

Case #

2427

Sample Wt/Vol

1000 ml

% Moisture

Sample #

R 3580

Final Vol

10 ml

Solid or Liquid

L

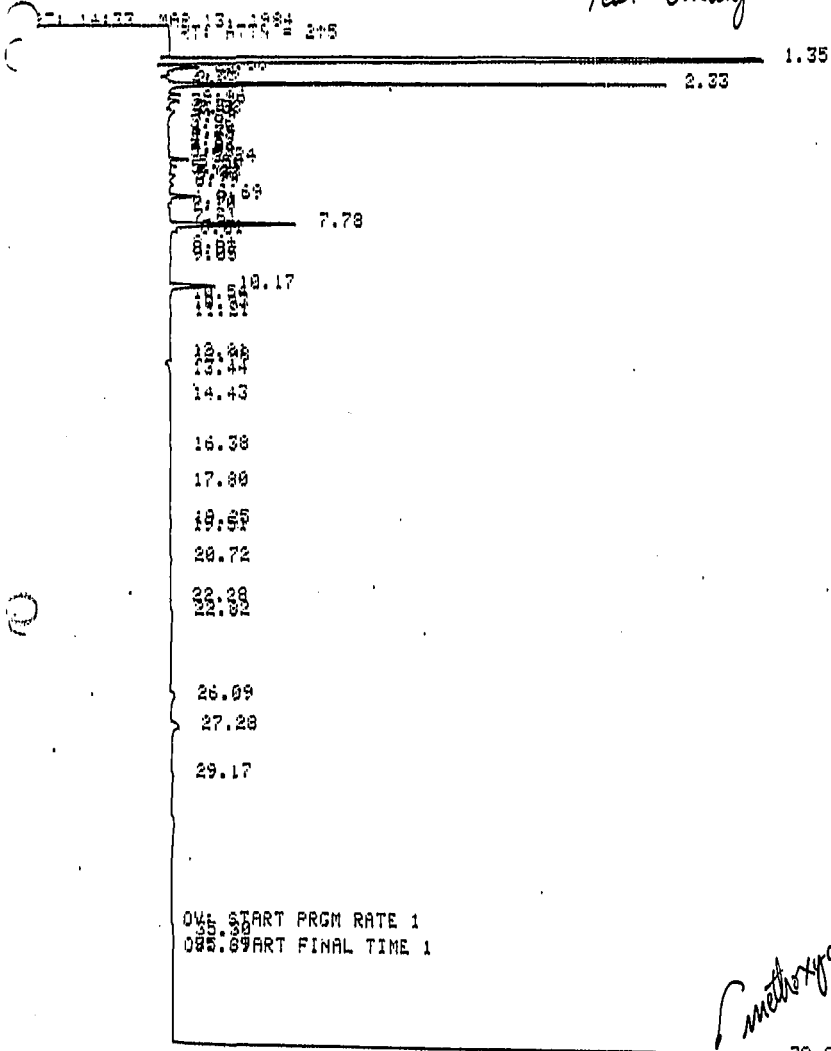
	Typical RI	Fraction	Dilution	Injection Conc. (µg/ml)	Light Box	Dilution	Injection Conc. (µg/ml)	Light Box	Rerun	Injection Conc.	Light Box	Second Column	Lgt. Box	Sample Conc. (µg/g)
α BHC	3.78	1												
β BHC	4.49	1												
γ BHC	4.67	1												
δ BHC	5.24	1					0.0055	+						0.055
Heptachlor	6.88	1												
Aldrin	8.38	1												
Heptachlor epoxide	10.57	1												
α Endosulfan	13.14	1&2												
Dieldrin	15.47	2												
D.D. - DDE	15.72	1												
Endrin	17.67	2												
β Endosulfan	18.77	3												
P.P. - DDD	20.74	1					0.0026	+				No		
Endrin Aldehyde	21.30	2&3												
Endosulfan Sulfate	24.95	3												
P.P. - DDT	26.72	1												
DDE	47.87	1,2,3					0.0							

0%

000988  
027152

EDIT AUTO SEQ 6.99  
PR: AUTO SEQ  
OVEN TEMP NOT READY

R 3580 6%  
Pest Analysis



OV: START PRGM RATE 1  
085.69ART FINAL TIME 1

44.98  
45.93

48.81

OV: START BREATH 20 CM/MIN  
58.75

31000983 \*

027153

134

REV. 10/80  
STOP RUN

EXP 5880A SAMPLER INJECTION 0 4:33 MAR 13, 1984

SAMPLE # : 10 CODE :

95 83580 6

*Pest*

STICIDE MIX CALIBRATION CURVE

1-ATD

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							
0.00							
0.00							
0.00							
3.50							
3.69							
5.24	5.25						
5.50							
5.80							
6.19							
6.69							
7.78							
8.01							
10.17							
12.98							
13.44							
20.72	20.78						
22.82							
26.09							
27.28							
29.17							
39.91	39.91						
48.81							
50.00							

BASELINE @ START RUN = 316.29  
THRESHOLD @ START RUN = -1  
PEAK WIDTH @ START RUN = 0.08  
RP: REJECT → 1E+06  
RP: REJECT → 20

D-BHC

PP-DDD

METHOXYCHLOR

RP: REJECT → 1E+06

MULTIPLIER = 1

195

31 000984

027154



PR: AUTO SEQ  
OVEN TEMP NOT READY

R 3580 15%  
Pest Analysis

ST: 15140 NIS 13 1981  
RT: RTTR = 215

2.29  
3.88  
7.78  
10.17  
11.21  
12.42  
13.43  
14.44  
15.37  
16.42  
18.14  
19.28  
20.74  
22.61  
26.18  
26.78  
27.38  
29.17  
30.99  
33.18  
35.35  
OVI: START PRGM RATE 1  
OVI: START FINAL TIME 1

1.29

39.92

42.88  
42.76  
OUT OF PAPER

*Methoxychlor IS*

3: 000985 \*  
027155

136

RT 57.37 STOP RUN

5880A SAMPLER INJECTION @ 15:40 MAR 13, 1984

SAMPLE # : ID CODE : *Pest*  
96 R3580 15  
PESTICIDE MIX CALIBRATION CURVE  
ESTD

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00		BASELINE @ START RUN = 315.12					
0.00		THRESHOLD @ START RUN = -1					
0.00		PEAK WIDTH @ START RUN = 0.08					
0.00		RP: REJECT → 1E+06					
3.50		RP: REJECT → 20					
5.97		22.98	VV	-----		6.894E-04	
6.69		86.80	VV	*-----		2.604E-03	
7.78		329.78	BB	0.10 *		9.893E-03	
8.88		20.03	BB	0.101		6.010E-04	
10.17		62.65	BV	0.114		1.880E-03	
13.43		20.58	PB	*-----		6.175E-04	
16.42		20.12	BB	-----		6.035E-04	
26.10		99.12	BP	0.287		2.974E-03	
26.79	26.79	20.14	PV	-----	16	2.763E-03	<del>BP-BBT</del>
27.30		70.49	VB	-----		2.115E-03	
29.17		39.37	BB	-----*		1.181E-03	
30.99		83.93	BB	-----*		2.518E-03	
39.92	39.92	24650.40 +	BP	0.25 *	17	0.648	METHOXYCHLOR
42.08		61.63	PV	-----*		1.849E-03	
47.99		20.24	BB	0.279		6.073E-04	
48.82		60.80	BB	0.330		1.824E-03	
50.00		RP: REJECT → 1E+06					

MULTIPLIER = 1

31 000986

027158

4.7

PR: AUTO SEQ  
OVEN TEMP NOT READY

R 3580 50%  
Pest Analysis

STI 16147 MAR 11 11 31 1984 295

1.29  
2.29  
97  
6.59  
7.78  
10:53  
17  
16.39  
18.39  
19.31  
20.23  
22.22  
26.12  
27.21  
27.31  
31.49  
32.15  
33.12  
37.54  
38.78  
04: START PRGM RATE 1  
04: START FINAL TIME 1  
38:78

*methoxychlor IS*

39.92

45.01

31 000987 x

48.84

027157

BT: START SPEED RATE 20 CM/MIN  
BT: START FINAL TIME 2  
38:57  
DTI 38:57

130

EXP 5880A SAMPLER INJECTION @ 16:47 MAR 13, 1994

SAMPLE # 1 ID CODE 1

97 R3580 50 *Pest*

PESTICIDE MIX CALIBRATION CURVE

STD

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							
0.00							
0.00							
0.00							
3.50							
6.69		41.99	BV	0.083		1.260E-03	
7.78		286.04	BB	0.096		8.581E-03	
10.17		98.92	BB	0.110		2.968E-03	
26.12		85.07	BB	-----*		2.552E-03	
27.31		36.93	BB	*-----*		1.108E-03	
39.92	39.92	18956.50	+ BB	0.245*	17	0.499	METHOXYCHLOR
48.84		38.69	BB	0.311		1.161E-03	
50.00							

MULTIPLIER = 1

31.000988

027158

139

REPORT # 88 13 MAR 1984 22:22 PEST  
 CHANNEL: 0 METHOD: PEST BOTTLE: 7  
 SAMPLE: R3560 6% INJECTED ON: 13 MAR 1984 21:32

MIN AR MV/M DELAY DVT FACTOR ID-LVL REF-RTW %RTW  
 500 .100 0.00 0.00 1.0000E+ 0 .30 5

NO REF PK FOUND  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.59		1.00000	527261 BV	23.148	
.83		1.00000	6782 VV	.298	
.92		1.00000	5628 VV	.247	
1.04		1.00000	7385 VV	.324	
1.15		1.00000	22422 VV	.984	
1.27		1.00000	104733 VV	4.598	
1.54		1.00000	1900 VV	.083	
1.98		1.00000	4393 VV	.193	
2.21		1.00000	5759 VV	.253	
2.61		1.00000	2725 VV	.120	
2.89		1.00000	845 VV	.037	
3.10		1.00000	2319 VV	.102	
3.45		1.00000	5854 VV	.257	
3.64		1.00000	4507 VV	.198	
4.48		1.00000	8455 VV	.371	
5.48		1.00000	7249 VV	.318	
6.28		1.00000	41542 VV	1.824	
8.65		1.00000	5516 VB	.242	
9.55		1.00000	508 BV	.022	
10.38		1.00000	5974 VV	.262	
11.77		1.00000	4298 VB	.189	
15.06		1.00000	4717 BV	.207	
16.95		1.00000	2175 VV	.095	
18.07		1.00000	882 VB	.039	
19.27		1.00000	755 BB	.033	
21.65		1.00000	910 BB	.040	
25.34		1.00000	6951 BB	.305	
28.89		1.00000	6812 BV	.299	
33.00		1.00000	21749 VV	.955	
40.25		1.00000	22029 VV	.970	
43.31		1.00000	1434707 VF	62.987	

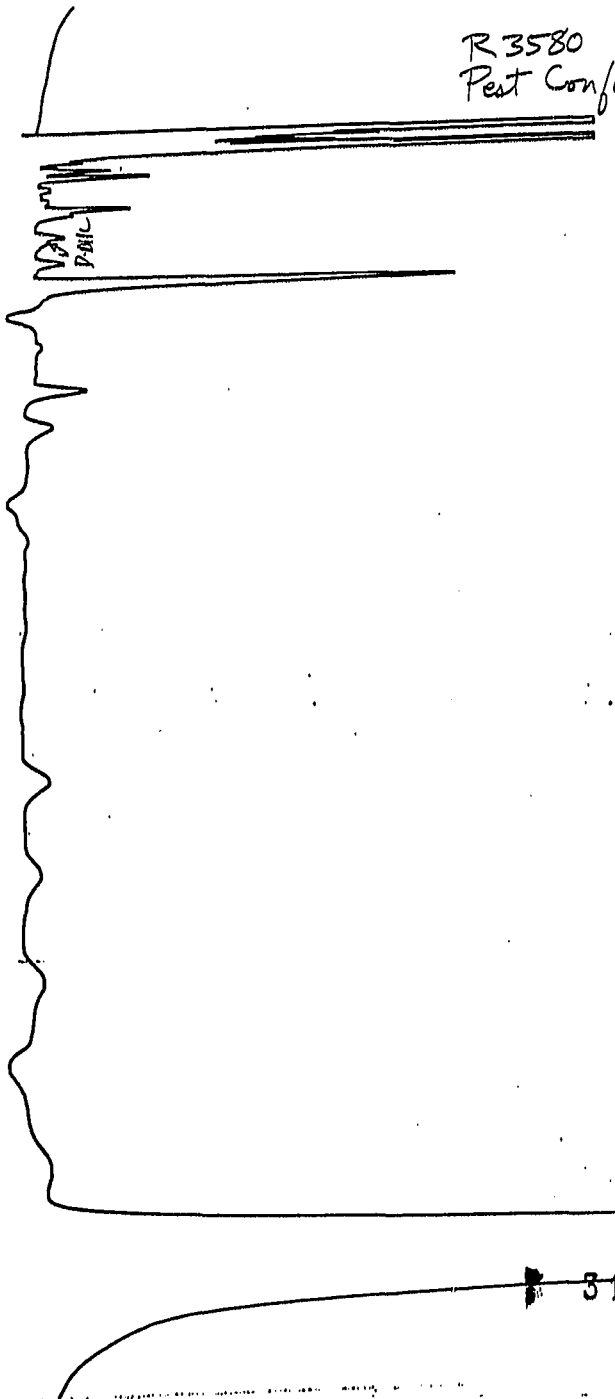
*D-BHC  
 is shoulder  
 on this  
 peak  
 wd*

TOTAL AREA = 2277800

31 000989X

027153

R 3580 6%  
Pest Confirmatory

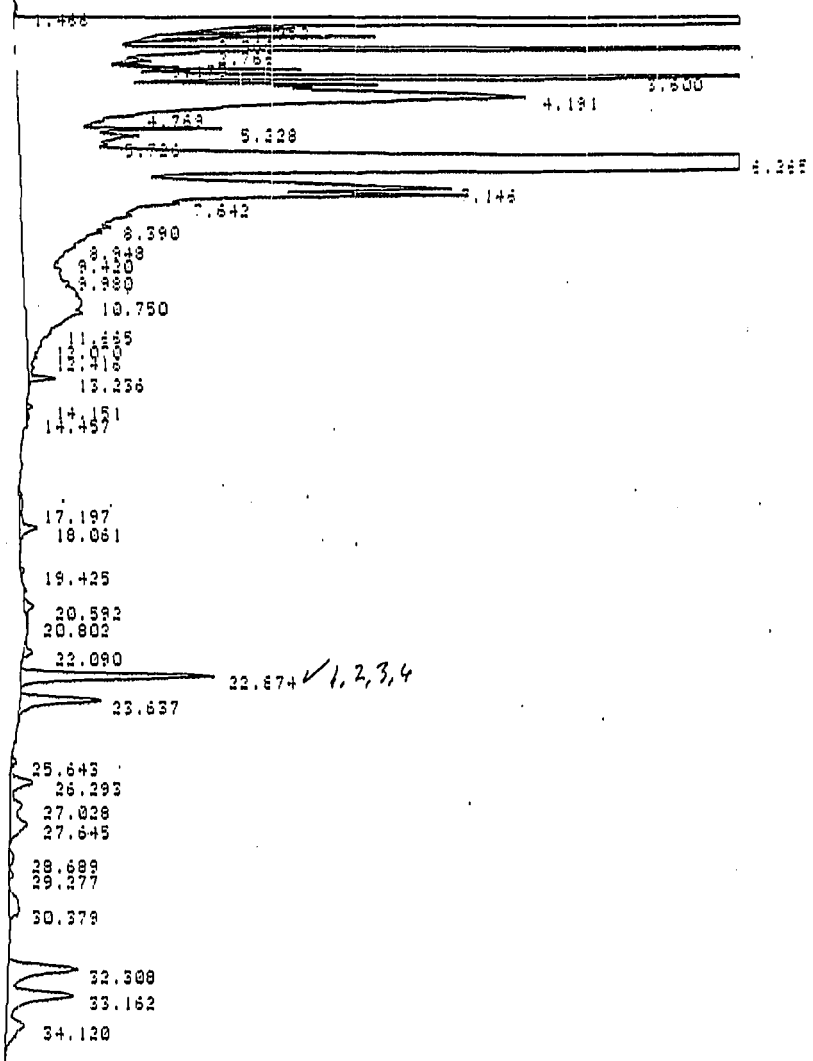


000990

027160

R3580  
TLDD

HM SPEED 0.6 CM-MIN  
T 11 64 ZERO: 5%  
0.214



5

31 000991x

027161

TITLE: CASE 2427 TOCO

6153 14 MAR 84

CHANNEL NO: 1

SAMPLE: P 3580

METHOD: TOCO

PEAK NO.	PEAK NAME	RESULT	TIME (MIN)	AREA COUNTS	REP CODE
4		0.08	1.700	7523330	VV
5		0.08	2.017	17055	T
6		0.08	2.057	15322	T
7		0.08	2.105	17233	T
8		0.38	2.248	79519	T
9		0.08	2.359	17455	T
10		0.58	2.513	1754760	VV
11		0.02	2.766	3810	T
12		0.02	2.869	6354	T
13		0.05	3.038	8243	T
14		0.02	3.175	4138	T
15		0.03	3.219	6899	T
16		0.49	3.316	99383	VV
17		2.87	3.540	606919	VV
18		0.97	3.600	178628	VV
19		0.83	3.758	169207	VV
20		0.54	3.866	110936	VV
21		6.41	4.191	1310940	VV
22		0.31	4.769	63216	VV
23		0.29	4.856	59106	VV
24		0.19	5.041	38625	VV
25		0.53	5.258	108769	VV
26		0.80	5.441	163786	VV
27		0.27	5.756	55225	VV
28		9.59	6.265	1321350	VV
29		13.21	6.309	2702980	VV
30		3.47	7.146	709281	VV
31		2.14	7.356	436952	VV
32		1.10	7.642	224459	VV
33		0.86	8.007	176519	VV
34		0.35	8.350	70924	VV
35		0.40	8.542	80825	VV
36		0.35	8.703	71979	VV
37		0.51	8.948	103577	VV
38		0.06	9.450	12999	VV
39		0.07	9.466	14367	VV
40		0.23	9.755	48028	VV
41		0.13	9.960	26892	VV
42		0.20	10.165	41514	VV
43		0.05	10.217	9571	VV
44		0.71	10.750	145489	VV
45		0.29	10.816	58543	VV
46		0.63	11.137	129863	VV
47		0.04	11.665	8344	VV
48		0.16	11.714	32263	VV
49		0.08	12.070	16158	VV
50		0.02	12.315	5054	VV
51		0.05	12.416	9585	VV
52		0.01	12.661	2039	VV
53		0.03	12.864	6267	VV
54		0.10	13.216	20295	VB
55		0.03	14.151	5353	BV
56		0.01	14.351	1495	VV
57		0.01	14.457	1324	VB
58		0.05	17.157	10941	BV
59		0.12	18.061	25405	VV
60		0.02	19.425	3135	BB
61		0.05	20.552	10298	BV
62		0.01	20.802	2782	VB
63		0.05	22.050	10291	BB
64		1.04	22.874	213292	BB
65		0.51	23.627	104004	BB
66		0.03	25.643	8367	BV
67		0.18	26.253	36202	VV
68		0.11	27.058	22725	VV
69		0.21	27.645	43645	VB
70		0.04	28.689	8561	BV
71		0.02	29.277	4764	VB
72		0.15	30.379	31105	BB
73		0.63	32.308	139229	BV
74		0.62	33.162	126022	VV
75		0.25	34.120	51778	VB

31 000992

027162



# STANDARDS PACKET

**Versar** INC.

VQA CROSS REFERENCE : Injection Log.

32

2/17/84

VQA

59225/824 (25.1)  
PROJECT (see case 2427

TIME	FEN	CRN	AREA	SAN TIME	SINLG FILE	SINMG NO	SINMG UN	ESS NO	ESS VOL	LEN TIME	DESCRIPTION	OPER
0910	24950	32	AR2	692	10020	24 1195	2ml	-	-	15	BFB 50mg Mads EPA	MS/PM
1000	24951	32	AR2	511	10019	24 1195	5ml	1605	5ml	35	Reagent Blank	MS/PM
1046	24952	32	AR2	488	10019	24 1195	5ml	1605	5ml	36	200ppb Standard	MS/PM
1130	24953	32	AR2	462	10019	24 1195	5ml	1603	5ml	36	100ppb Standard	MS/PM
1215	24954	32	AR2	431	10019	24 1195	5ml	1603	5ml	36	200ppb Standard	MS/PM
1300	24955	32	AR2	398	10019	24 1195	5ml	1603	5ml	36	Townhall Building Duplicate	MS/PM
1345	24956	32	AR2	375	10019	24 1195	5ml	1605	5ml	36	109 Tayamingo Rd, SN	MS/PM
1430	24957	32	AR2	354	10019	24 1195	5ml	1605	5ml	36	EPA B. SH. W/ 28102	MS/PM
1529	24958	32	AR2	321	10019	24 1195	5ml	1603	5ml	36	R 3545	MS/PM
1610	24959	32	AR2	304	10019	24 1195	5ml	1603	5ml	36	R 3546	MS/PM
1700	24960	32	AR2	280	10019	24 1195	5ml	1603	5ml	36	R 3562	MS/PM
1800	24961	32	AR2	327	10019	24 1195	2ml	-	-	14	BFB 50mg	MS
1845	24962	32	AR2		10019	24 1195	2ml	-	-	14	BFB 50mg	MS
		2/20/84				VQA						
0845	24965	32	AR2	307	10020	24 1195	2ml	-	-	15	BFB 50mg	MS/PM
0915	24966	32	AR2	299	10020	24 1195	2ml	-	-	15	BFB 50mg	MS/PM
0940	24967	32	AR2	294	10020	24 1195	2ml	-	-	15	BFB 50mg	MS/PM
1005	24968	32	AR2	289	10020	24 1195	2ml	-	-	14	BFB 50mg	MS/PM
1030	24969	32	AR2	283	10020	24 1195	2ml	-	-	14	BFB 50mg	MS/PM
1055	24970	32	AR2	209	10019	24 1195	5ml	1605	5ml	36	Reagent Blank Mads EPA	MS/PM
1145	24971	32	AR2	194	10019	24 1195	5ml	1605	5ml	36	100ppb Standard	MS/PM
1213	24972	32	AR2	171	10019	24 1195	5ml	1605	5ml	36	R 3564	MS/PM
1330	24973	32	AR2	156	10019	24 1195	5ml	1603	5ml	36	R 3565	MS/PM
1410	24974	32	AR2	142	10019	24 1195	5ml	1605	5ml	36	R 3566	MS/PM
1505	24975	32	AR2	126	10019	24 1195	5ml	1603	5ml	36	R 3567	MS/PM
1600	24976	32	AR2	106	10019	24 1195	5ml	1603	5ml	36	R 3568	MS/PM
					10019	24 1195	5ml	1603	5ml	36	R 3564	MS/PM

Dr. Bantz  
3/15/84

027163

31 000993

# Versar INC. VCA

2-21-84

VOA

824 (325.1) 33

case 2427

TIME	FLN	SEN	ACFT	SWW TIME	SWW TAG	SWW PA	SWW POC	FLN IN.	FLN SQ.	SW TIME	DESCRIPTION	OTR
0830	24980	32	AR2	118	10020	1145	2ml	-	-		OFB 50 mg	20/PM
0910	24981	31	AR2	113	10020	1145	2ml	-	-		OFB 50mg needs 1M	20/PM
1000	24982	33	AR3	519	10019	1250	5ml	1603	5ml	36	100ppb 5ml	20/PM
1040	24985	33	AR3	486	10019	1222	5ml	1603	5ml	36	Regent blank	20/PM
1155	24984	33	AR3	474	10019	1207	5ml	1603	5ml	36	R3569	20/PM
1231	24985	33	AR3	474	10019	1207	5ml	1603	5ml	36	R3570	20/PM
1320	24986	33	AR3	474	10019	1207	5ml	1603	5ml	36	R3571	20/PM
1400	24987	33	AR3	442	10019	1220	5ml	1603	5ml	36	R3572	20/PM
1458	24988	33	AR3	407	10019	1210	5ml	1603	5ml	36	R3572 dilution	20/PM
1540	24989	33	AR3	390	10019	1210	5ml	1603	5ml	36	R3572 At 1:30	20/PM
1630	24990	33	AR3	373	10019	1210	5ml	1603	5ml	36	R3573	20/PM
1720	24991	33	AR3	354	10019	1214	5ml	1603	5ml	36	R3574	20/PM
1758	24992	33	AR3		10019	1215	5ml	1603	5ml	36	R3579	20/PM

2/22/84

VOA

(325.1)  
824/case 2427

0900	24995	33	AR3	426	10020	1145	2ml	-	-	15	OFB 50mg needs 1M	20/PM
1145	24996	33	AR3	313	10019	1250	5ml	1603	5ml	36	100ppb standard	20/PM
1155	24997	33	AR3	287	10019	1250	5ml	1603	5ml	36	Regent blank	20/PM
124	24998	33	AR3	273	10019	1216	5ml	1603	5ml	36	R3580	20/PM
1207	24999	33	AR3		10019	1210	5ml	1603	5ml	36	R3567 1/20 D. lotion	20/PM
1305	2415000	33	AR3	244	10019	1210	5ml	1603	5ml	36	R3545 1/20 Dilution	20/PM
1350	25001	33	AR3	225	10019	1210	5ml	1603	5ml	36	R3565 1/20 Dilution	20/PM
1400	25002	33	AR3	213	10019	1210	5ml	1603	5ml	36	Regent blank 850	20/PM

see next page

Submitt  
3/15/84

027164

# Versar INC. BNA CROSS REFERENCE ; INJECTION LOG

2-29-84  
THRU 3-1-84

BNA EPA CASE 2427 LOW WATERS

825.1

LINE	DISC	FMT	FILE	STR	SAMPLE	SPR#	CASE	VOL 1 EXTRACT	VOL 2 TOXANA	EST. FINAL VOLUME	SUBST S.S.V.	INTE V.D.P.	AS	COMMENTS
1192	W43			5	BAL GAS									FL43 CALI.
1193					STD 1867		51 A	1/2	TOX	TOX			1.2	DFTAP SOING Meets
1194					STD 1867		"	"	"	"				DFTAP SOING Meets
1195							"	"	"	"				DIPED GRAD RECALIBRATED PIRE
1196					BNA 867		"	"	TOX	TOX				DFTAP SOING Meets PIR
1197														FL43 CALI.
1198														DFTAP SOING
1199														DFTAP SOING
1200														DFTAP SOING
1201														DFTAP SOING Meets PIR
1202														Calibration INTERNAL STANDARD MIX CAL CHECK
3-1-84														
1204				5										DFTAP SOING Meets EPA 2AC
3-2-84														
1205				5	STD 1867									FL43 CALI
1206					STD 1867									DFTAP
1207														DFTAP
1208														DFTAP
1209														DFTAP SOING Meets PIR
1210					STD 1814						20ul			BNA SURROGATES
1211					STD 1872						20ul			SD ppm BAN SD ppm
3-5-84														
1212					STD 1867									DFTAP SOING W/1 REC ADJUST
1213					SDA 67									DFTAP SOING 2nd GRAD PEDINGE
1214				5	STD 1867									DFTAP SOING Meets PIR
INITIAL CALIBRATION														
1215					STD 1873									BNA'S 20NG
1216					STD 1874									BNA'S 20NG
1217					STD 1875									BNA'S 100NG
1218					STD 1876									BNA'S 200NG

INITIAL CALIBRATION MEETS SPECS

  
 3-5-84

027165

3,000995

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3-8-84

BNA ANALYSIS CASE 2427 WATFAPS

825.1

FILE	DATE	TIME	FILE	SEC	SAMPLE	CPA#	CASE	EST VOL	COMO VAL	FIN EST VL	ML	IN	B	DE	DESCRIPTION
1219	W4-3			5	STD 1867						20	1.2			DFTAP SONG OR
✓ 1220	W4-3			5	STD 1867		2427				20	1.2			DFTAP SONG meets EARZAL
1221	W4-3			5	STD 1878		2427				20	1.2			BNA CHECK STD
1222	W4-3			5	RB	RS	2427	1ml	0.5ml	1ml	20	1.2	1.67		REAGENT BLANK
1223	W4-3			5	M. STD		2427	1ml	0.5ml	1ml	20	1.2	1.67		METHOD SIGNATURE
1224	W4-3			5	STD 1867		2427	1ml	0.5ml	1ml	20	1.2			SURROGATE STD.
1225	W4-3			5	R3571MS		2427	1ml	0.5ml	1ml	20	1.2	1.67		CYA W. Sample QC
1226	W4-3			5	R3571MS		2427	1ml	0.5ml	1ml	20	1.2	1.67		CYA W. Sample QC
W 1227		NOT RUN			RECALL ELABOR		R3571	1ml	0.5ml	1ml	20	1.2			BNA W. Sample
1228	W4-3			5	STD 1867						20	1.2			DFTAP SONG
Ⓡ 1229				5	STD 1863		2427	1ml			20	1.2			BNA STD 60HA
					BEVZIDINE	N.A.			CHECK	STD					REGRAN. Ⓡ
1230				5	STD 1867										DFTAP SONG
1231				5	STD 1867										DFTAP SONG
1232				5	STD 1867										DFTAP SONG
Ⓡ 1233				5	STD 1867										BNA CHECK SONG
					BLVZIDINE	IF TOO LOW			CONVERTIVE A. 11.11						
					POINT	LINER	CLETTM D		NEW	SEPTIM					
W 1234	W4-3			5	STD 1867						20	1.2			DFTAP SONG
1235				5	STD 1865						20	1.2			BNA CHECK STD SONG
1236				5		R3571	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA SAMPLE
1237				5		R3572	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA SAMPLE
1238				5		R3573	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA SAMPLE
1239				5		R3574	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA SAMPLE
1240				5		R3579	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA SAMPLE
1241				5		R3580	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA SAMPLE
✓ 1242				5	STD 1867										DFTAP SONG
1243				5	STD 1865										BNA CHECK STD SONG
1244				5		R3570	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA SAMPLE
1245	W4-3			5		R3569	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA
NR-1246				5		R3568	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA
NR-1247				5		R3566	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA
NR-1248				5		R3545	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA
RL-1249				5		R3564	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA
RL-1250				5		R3546	2427	1ml	0.5ml	1ml	20	1.2	1.67		BNA
1251				5	STD 1867										DFTAP SONG

RL- ReRun extract.

*[Signature]*  
3-17-84

027168

FILE	DISC	FILE	STC	STD. SAMPLE	CASE NO.	EXT. VOL	CONC. VOL	FIN. VOL	155 1849	161 1849	AF	DESCRIPTION
3-12-84 BNA ANALYSIS CASE 2427												
1252	W43		5	STD1886					46µl	46µl	1.2	DFTPP SDNG
					Standard and ST1	1987	Low	TREE	QUAD.			IT MEETS EPA CRITERIA.
1253			5	STD1886								DFTPP SDNG
												MEETS EPA CRITERIA
1254			5	STD1887	CS 2427							BNA CAL. CHECK SDNG
1255			5	R3546	CS 2427	1ml	0.5ml	1ml	20µl	1.2	81.67	BNA SAMPLE.
1256			5	R3544	CS 2427	1ml	0.5ml	1ml	20µl	1.2	81.67	BNA SAMPLE
1257			5	R3545	CS 2427	1ml	0.5ml	1ml	20µl	1.2	81.67	BNA SAMPLE
1258			5	R3566	CS 2427	1ml	0.5ml	1ml	20µl	1.2	81.67	BNA SAMPLE
1259			5	R3568	CS 2427	1ml	0.5ml	1ml	20µl	1.2	81.67	BNA SAMPLE
1260			5	R3545	CS 2427	1ml	0.5ml	1ml	20µl	1.2	81.67	BNA SAMPLE
1261			5	R3567	CS 2427	1ml	100µl	1ml	20µl	1.2	810.67	BNA SAMPLE - 115
1262			5	R3563	CS 2427	1ml	100µl	1ml	20µl	1.2		BNA SAMPLE 2/20
1263			5	STD1886	CS 2427	1ml			2	1.2		DFTPP SDNG
KFILES 1264-1267 3-13-84												
1264	W43		5	STD1886							1.2	DFTPP SDNG.
												MEETS EPA CRITERIA
1265			5	STD1887							1.2	BNA CHECK STD SDNG
1266			5	R3567	CS 2427	110µl from 1261	200µl	1ml	16µl	1.2	8	BNA SAMPLE
												150 DILUTION
												100µl → 1ml
												1ml → 200µl
1267			5	R3563	CS 2427	1/20µl from 1262	100µl	1ml	18µl	1.2		BNA SAMPLE
												DILUTION SCHEMATIC
												ACID = 1/200
												50µl → 1ml → 1µl
												3ml
												BNA = 1/100
												100µl → 100µl → 1µl
												1µl → 1µl
3-14-84 CASE 2427 RE-RAN												
1261	W43		5	STD1886								DFTPP SDNG
1267			5	STD1887								BNA CHECK STD SDNG
1270			5	R3571MS	CS 2427	1ml	0.25ml	1ml	10µl	2.4	1/2	BNA OR MATRIX SPIKE
1271			5	R3571DMS	CS 2427	1ml	0.25ml	1ml	10µl	2.4	1/2	BNA GL MATRIX SPIKE
1273			5	Method Standard		1ml	0.25ml	1ml	20µl	2.4	1/4	RE DUPLICATE Method Standard
					DISD W4-3 TO STATE DEPT & VERIFIED 3-14-84							

31 000997

027167

*John E. Jones*  
3-14-84