

RAW QC  
SAMPLE CONTROL  
SCREENS

027473

## GC/MS PERFORMANCE STANDARD

DFTPP

Decafluorotriphenylphosphine

CASE NO. 2427 CONTRACTOR VERSAR INC. CONTRACT NO. 68-01-6756 (824)  
68-01-6757 (825)  
 INSTRUMENT ID 4000 DATE 03-05-84 TIME 11:27  
 RUN NUMBER 1214 QC REPORT NO. 2427 ANALYST SEP

## TUNE CHECK:

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	44.
68	less than 2% of mass 69	0. (8)2
69	mass 69 relative abundance	45.
70	less than 2% of mass 69	0. (8)2
127	40 - 60% of mass 198	44.
197	less than 1% of mass 198	0.
198	base peak, 100% relative abundance	100.
199	5 - 9% of mass 198	6.
275	10 - 30% of mass 198	26.
365	greater than 1% of mass 198	19.
441	less than mass 443	10.
442	greater than 40% of mass 198	<del>82</del>
443	17 - 23% of mass 442	<del>75</del> (120)2

1 Value in parenthesis is % mass 69.  
 2 Value in parenthesis is % mass 442.

Comments:

*Meets EPA Criteria*

Revision Date 1/83 027474

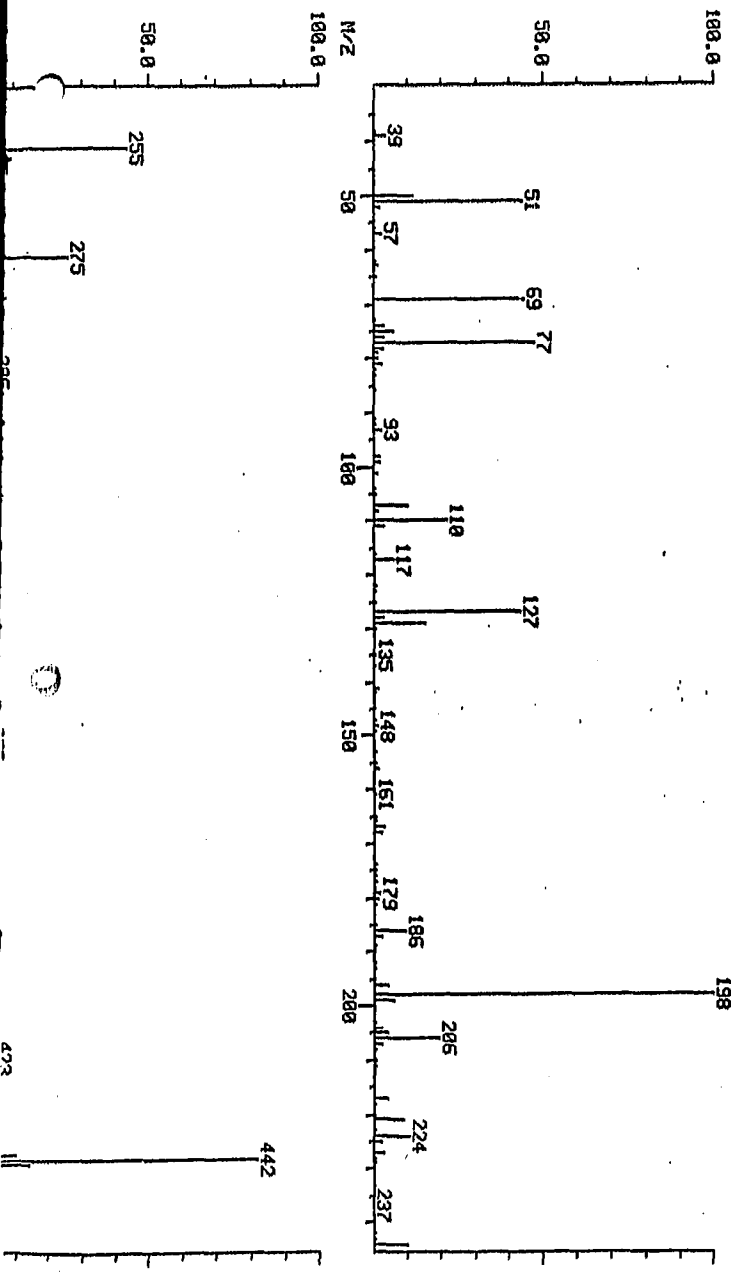
P. 31 001303\*

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**MASS SPECTRUM**  
 03/05/84 11:27:00 + 12:03  
 SAMPLE: DEPPP 50MG STD 1867 1.2UL SEP  
 COND5: 1 SP85 30MX0.32MMID 1UM 60/2MIN TO 200/220 TO 25000/MIN  
 ENHANCED (S 158 2N 0T)  
  
 DATA: 1214 #723  
 CALL: 1205 #3  
  
 BASE M/Z: 198  
 RIC: 51436.

027475



31 001304

7128.

7128.

473

## GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine

CASE NO. 2427 CONTRACTOR VERSAR INC. CONTRACT NO. 68-01-6756 (824)  
68-01-6757 (825)  
 INSTRUMENT ID 4000 DATE 03-08-84 TIME 10:56  
 RUN NUMBER 1220 QC REPORT NO. 2427 ANALYST SLP

## TUNE CHECK:

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	49
68	less than 2% of mass 69	0 (1)
69	mass 69 relative abundance	50
70	less than 2% of mass 69	0 (1)
127	40 - 60% of mass 198	46
197	less than 1% of mass 198	0
198	base peak, 100% relative abundance	100
199	5 - 9% of mass 198	5.3
275	10 - 30% of mass 198	23
365	greater than 1% of mass 198	1.4
441	less than mass 443	8
442	greater than 40% of mass 198	72
443	17 - 23% of mass 442	13 (175)

1Value in parenthesis is % mass 69.  
 2Value in parenthesis is % mass 442.

Comments: Meets EPA criteria

Revision Date 1/83

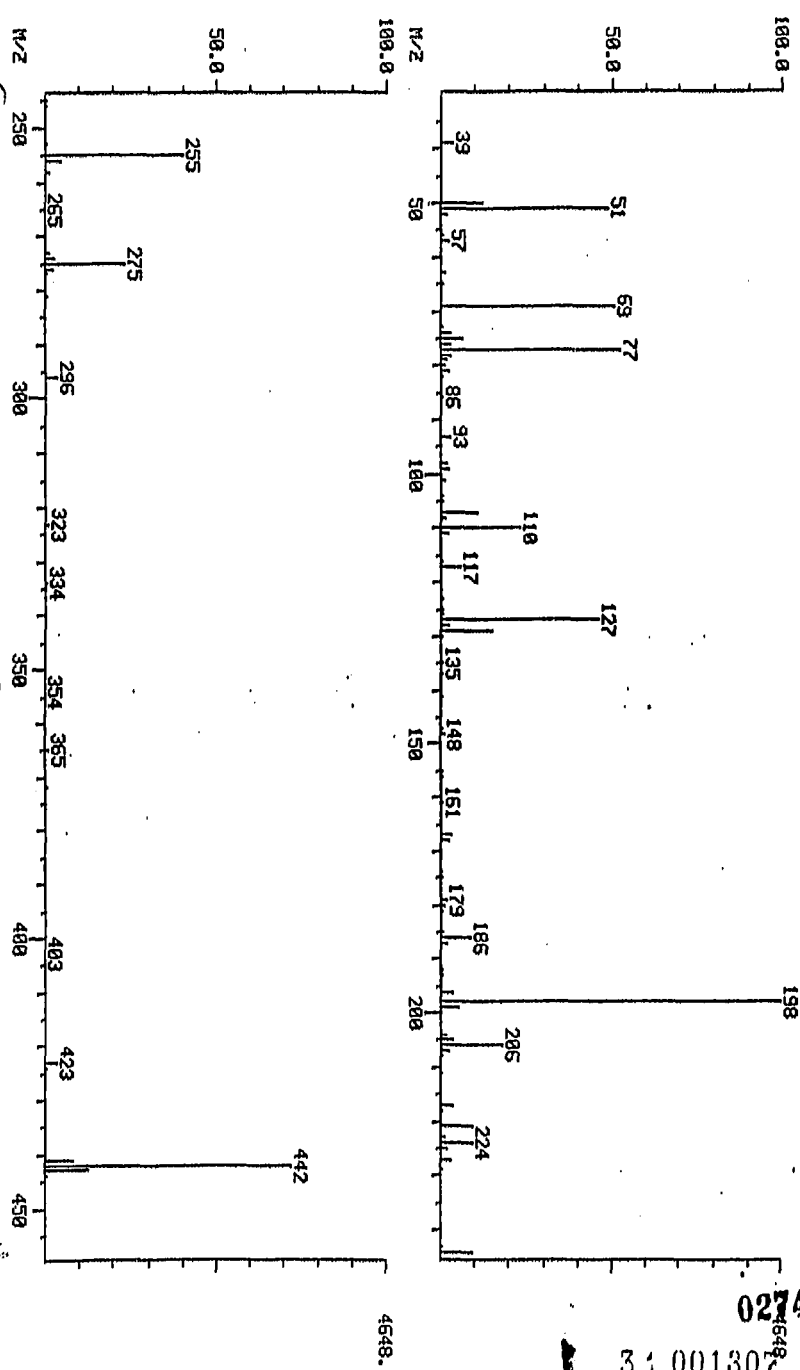
027476

31 001306 X

MASS SPECTRUM  
 03/08/84 10:55:00 + 12:03  
 SAMPLE: DETP 50NG 1.2UL STD 1867  
 COND.: SP8-S 30KX0.32MMID 1.0UMDF 30C/4MIN TO 280C@18C/MIN HOLD 26MIN  
 ENHANCED (S 15B 2N 01)

DATA: 1220 #223  
 CALL: 1215 #3

BASE M/Z: 198  
 RIC: 32448.



027477

31 00130

4648.

Mass List

Date: 1220 # 723

Base m/z: 198

03/08/84 10:56:00 + 12:03

Call: 1215 # 3

RIC: 32448.

Sample: DFTFP 30NG 1.2UL STD 1867

Conds.: SPB-5 30M\*O. 32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN

Enhanced (S 15B 2N 0T)

39	0.00	0.00	0	Minima	Min Inten:	15.	
444			#	Maxima			
Mass	% RA	% RIC	Inten.	Mass	% RA	% RIC	Inten.
39.00?	3.40	0.49	158.	179.00	1.64	0.23	76.
50.00	12.44	1.78	578.	180.00	1.18	0.17	55.
51.00	48.62	6.96	2260.	181.00	0.49	0.07	23.
52.00	1.70	0.24	79.	185.00	0.77	0.11	36.
56.00	0.73	0.10	34.	186.00	8.54	1.22	397.
57.00	2.22	0.32	103.	187.00	1.85	0.27	86.
63.00	0.95	0.14	44.	192.00	0.43	0.06	20.
65.00	0.34	0.05	16.	193.00	0.56	0.08	26.
69.00	50.34	7.21	2340.	196.00	3.64	0.52	169.
73.00	0.49	0.07	23.	198.00	100.00	14.32	4648.
74.00	3.18	0.46	148.	199.00	5.29	0.76	246.
75.00	6.13	0.88	285.	204.00	1.72	0.25	80.
76.00	2.82	0.40	131.	209.00	3.68	0.53	171.
77.00	52.32	7.50	2432.	206.00	18.14	2.60	843.
78.00	2.75	0.39	128.	207.00	2.22	0.32	103.
79.00	1.46	0.21	68.	208.00	0.41	0.06	19.
80.00	1.08	0.15	50.	211.00	0.73	0.10	34.
81.00	2.09	0.30	97.	217.00	3.74	0.54	174.
82.00	0.32	0.05	15.	218.00	0.39	0.06	18.
86.00	0.41	0.06	19.	221.00	7.19	1.32	427.
93.00	2.84	0.41	132.	223.00	0.95	0.14	44.
98.00	1.74	0.25	81.	224.00	9.27	1.33	431.
99.00	2.17	0.31	101.	225.00	1.66	0.24	77.
101.00	0.95	0.14	44.	227.00	2.67	0.38	124.
104.00	0.34	0.05	16.	229.00	0.49	0.07	23.
105.00	0.43	0.06	20.	243.00	0.41	0.06	19.
107.00	10.67	1.53	496.	244.00	9.57	1.37	445.
108.00	1.14	0.16	53.	245.00	0.82	0.12	38.
110.00	23.19	3.32	1078.	246.00	0.65	0.09	30.
111.00	2.54	0.36	118.	253.00	0.60	0.09	28.
116.00	0.43	0.06	20.	255.00	40.40	5.79	1878.
117.00	5.79	0.83	269.	256.00	4.82	0.69	224.
123.00	0.54	0.08	25.	258.00	1.12	0.16	52.
125.00	0.34	0.05	16.	273.00	0.88	0.13	41.
126.00	0.41	0.06	19.	274.00	2.73	0.39	127.
127.00	46.13	6.61	2144.	275.00	23.36	3.35	1086.
128.00	2.50	0.36	116.	276.00	2.07	0.30	96.
129.00	15.25	2.19	709.	277.00	0.69	0.10	32.
130.00	0.75	0.11	35.	281.00	0.47	0.07	22.
135.00	0.73	0.10	34.	296.00	3.25	0.47	151.
141.00	0.82	0.12	38.	323.00	0.99	0.14	46.
147.00	0.60	0.09	28.	334.00	0.73	0.10	34.
148.00	1.29	0.18	60.	365.00	1.40	0.20	65.
155.00	0.52	0.07	24.	372.00	0.58	0.08	27.
156.00	0.77	0.11	36.	423.00	3.27	0.47	152.
161.00	0.45	0.06	21.	424.00	0.32	0.05	15.
167.00	2.71	0.39	126.	441.00	8.30	1.19	386.
168.00	2.28	0.33	106.	442.00	72.29	10.36	3360.
174.00	0.43	0.06	20.	443.00	12.63	1.81	587. 1752
175.00	0.73	0.10	34.	444.00	0.69	0.10	027478

GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine

CASE NO. 2427 CONTRACTOR VERSAR INC. CONTRACT NO. 68-01-6756 (824)  
68-01-6757 (825)  
 INSTRUMENT ID 4000 DATE 3-13-84 TIME 12:33  
 RUN NUMBER 1234 QC REPORT NO. 2427 ANALYST [Signature]

TUNE CHECK:

<u>m/e</u>	<u>Ion Abundance Criteria</u>	<u>% Relative Abundance (%RA)</u>
51	30 - 60% of mass 198	38
68	less than 2% of mass 69	0 (-)1
69	mass 69 relative abundance	42
70	less than 2% of mass 69	0 (-)1
127	40 - 60% of mass 198	43
197	less than 1% of mass 198	0
198	base peak, 100% relative abundance	100
199	5 - 9% of mass 198	6
275	10 - 30% of mass 198	26
365	greater than 1% of mass 198	2
441	less than mass 443	10
442	greater than 40% of mass 198	88
443	17 - 23% of mass 442	16 (18.5)2

1Value in parenthesis is % mass 69.  
 2Value in parenthesis is % mass 442.

Comments:

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Revision Date 1/83

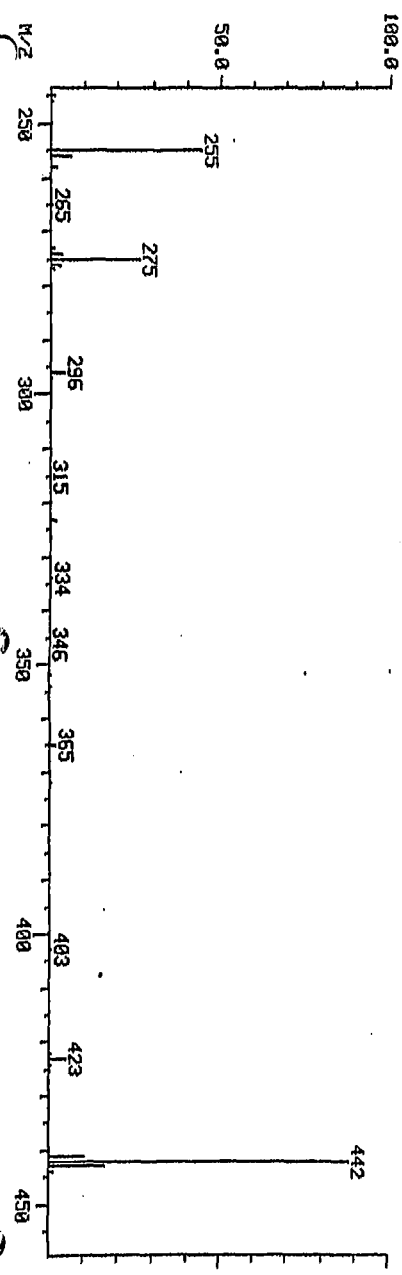
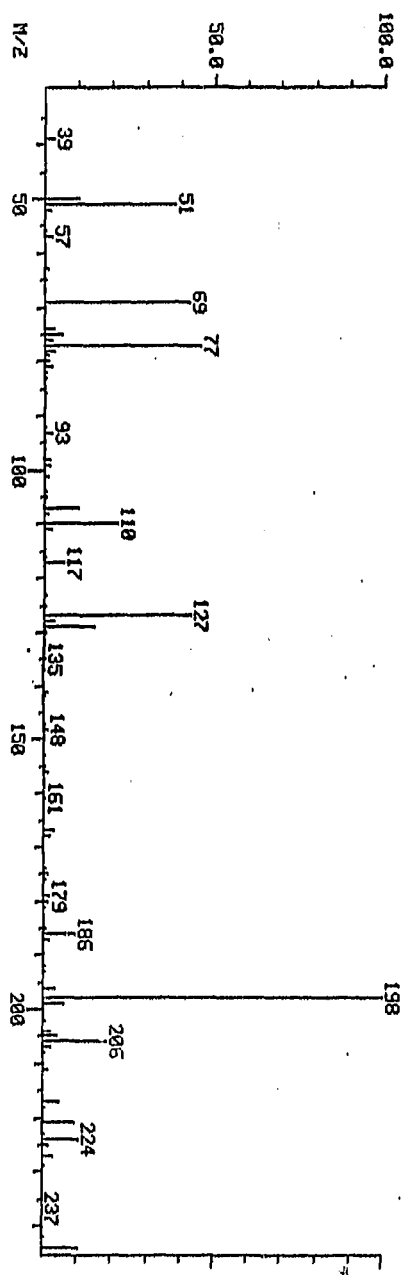
027479

31 001309 X

MASS SPECTRUM  
 03/10/84 12:33:00 + 11.54  
 SAMPLE: DETPP 50MG 1.2UL STD 1867  
 COND.S: 1 SP8-5 30MK0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 20MIN  
 ENHANCED (S 15B 2N 0T)

DATA: 1234 #714  
 CALL: 1215 #3

BASE M/Z: 198  
 RIC: 59392.



31 001310 27480

8368.



Mass List

03/10/84 12:33:00 + 11:54

Data: 1234 # 714

Base m/z: 198

Call: 1215 # 3

RIC: 59392.

Sample: DFTFP SONG 1.2UL STD 1867 *SEP*

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

Enhanced (S 15B 2N OT)

38 444 Mass	0.00 % RA	0.00 % RIC	0. # 0 Inten.	Minima Maxima Mass	Min Inten:	27. % RA % RIC	Inten.
39.00?	2.80	0.39	234.	175.00	0.90	0.13	75.
50.00	10.07	1.42	843.	179.00	2.03	0.29	170.
51.00	38.43	5.41	3216.	180.00	1.43	0.20	120.
52.00	1.58	0.22	132.	181.00	0.50	0.07	42.
56.00	0.66	0.09	55.	185.00	0.84	0.12	70.
57.00	2.09	0.29	175.	186.00	9.24	1.30	773.
63.00	0.91	0.13	76.	187.00	2.01	0.28	168.
65.00	0.44	0.06	37.	192.00	0.50	0.07	42.
69.00	42.45	5.98	3552.	193.00	0.55	0.08	46.
74.00	2.86	0.40	239.	196.00	3.64	0.51	305.
75.00	5.44	0.77	455.	198.00	100.00	14.09	8368.
76.00	2.45	0.35	205.	199.00	5.75	0.81	481.
77.00	45.89	6.47	3840.	204.00	2.17	0.31	182.
78.00	2.84	0.40	238.	205.00	3.86	0.54	323.
79.00	1.25	0.18	105.	206.00	18.83	2.65	1576.
80.00	1.18	0.17	99.	207.00	2.40	0.34	201.
81.00	2.13	0.30	178.	208.00	0.32	0.05	27.
82.00	0.39	0.06	33.	211.00	1.00	0.14	84.
83.00	0.39	0.06	33.	217.00	4.57	0.64	382.
86.00	0.36	0.05	30.	221.00	9.45	1.33	791.
92.00	0.35	0.05	29.	223.00	0.82	0.12	69.
93.00	2.90	0.35	209.	224.00	10.27	1.45	859.
98.00	1.74	0.25	146.	225.00	2.00	0.28	167.
99.00	1.92	0.27	161.	227.00	2.98	0.42	249.
101.00	1.02	0.14	85.	229.00	0.57	0.08	48.
104.00	0.43	0.06	36.	244.00	10.27	1.45	859.
105.00	0.49	0.07	41.	245.00	0.94	0.13	79.
107.00	10.07	1.42	843.	246.00	0.81	0.11	68.
108.00	1.17	0.17	98.	255.00	44.17	6.22	3696.
110.00	21.63	3.05	1810.	256.00	5.90	0.83	494.
111.00	2.56	0.36	214.	258.00	1.49	0.21	125.
116.00	0.35	0.05	29.	265.00	0.43	0.06	36.
117.00	5.65	0.80	473.	273.00	1.10	0.15	92.
123.00	0.53	0.07	44.	274.00	3.60	0.51	301.
125.00	0.47	0.07	39.	275.00	26.20	3.69	2192.
127.00	42.88	6.04	3588.	276.00	2.81	0.40	235.
128.00	2.78	0.39	233.	277.00	1.02	0.14	85.
129.00	14.46	2.04	1210.	296.00	4.25	0.60	356.
130.00	0.72	0.10	60.	323.00	1.54	0.22	129.
135.00	0.61	0.09	51.	334.00	0.79	0.11	66.
137.00	0.41	0.06	34.	354.00	0.32	0.05	27.
141.00	0.96	0.13	80.	365.00	2.01	0.28	168.
147.00	0.50	0.07	42.	372.00	0.65	0.09	54.
148.00	1.25	0.18	105.	423.00	4.39	0.62	367.
155.00	0.56	0.08	47.	424.00	0.65	0.09	54.
156.00	0.99	0.14	83.	441.00	10.42	1.47	872.
161.00	0.44	0.06	37.	442.00	88.24	12.43	7384.
167.00	2.84	0.40	238.	443.00	16.32	2.30	1374.
168.00	1.82	0.26	152.	444.00	0.98	0.14	82.
174.00	0.41	0.06	34.				

## GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine

CASE NO. 2427 CONTRACTOR VERSAR INC. CONTRACT NO. 68-01-6756 (824)  
68-01-6757 (825)  
 INSTRUMENT ID 4000 DATE 03-10-84 TIME 21:45  
 RUN NUMBER 1242 QC REPORT NO. 2427 ANALYST SEP

## TUNE CHECK:

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	45
68	less than 2% of mass 69	0 (-) 1
69	mass 69 relative abundance	47
70	less than 2% of mass 69	0 (-) 1
127	40 - 60% of mass 198	47
197	less than 1% of mass 198	0
198	base peak, 100% relative abundance	100
199	5 - 9% of mass 198	6
275	10 - 30% of mass 198	24
365	greater than 1% of mass 198	2
441	less than mass 443	9
442	greater than 40% of mass 198	71
443	17 - 23% of mass 442	12 1792

1Value in parenthesis is % mass 69.

2Value in parenthesis is % mass 442.

Comments:

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Revision Date 1/83

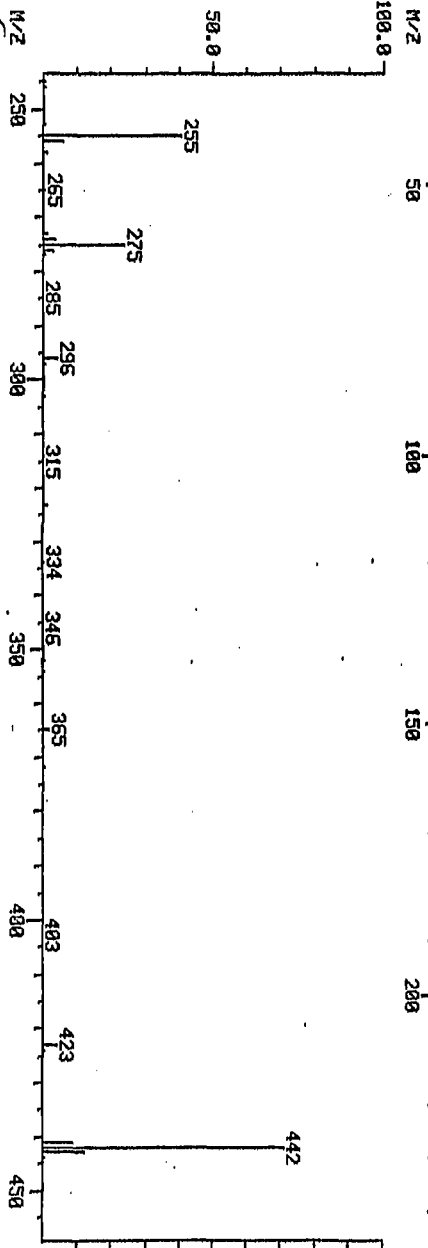
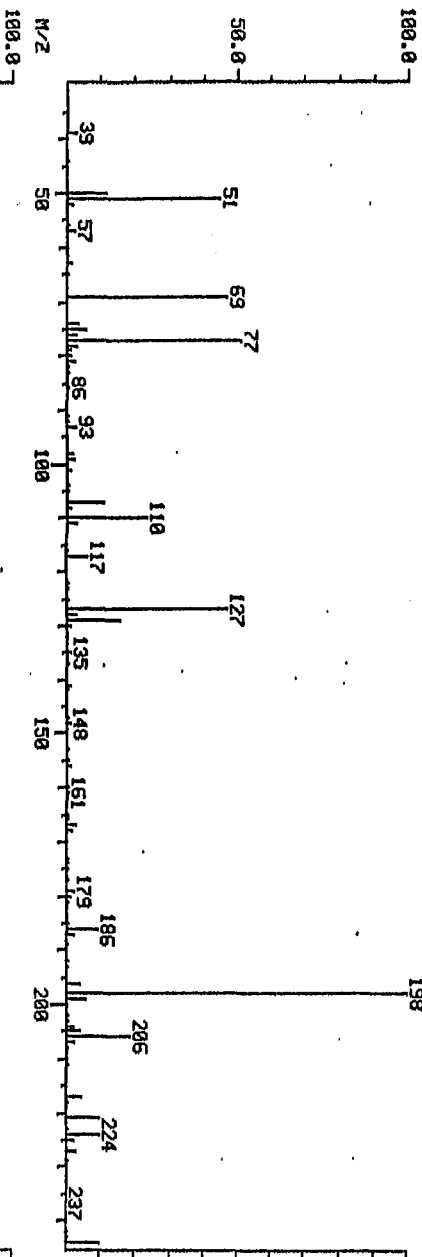
027482

31 001312

MASS SPECTRUM  
03/10/84 21:45:00 + 11:56  
SAMPLE: SPB-5 30M\*0.32MM\*10  
CONDNS.: SPB-5 30M\*0.32MM\*10  
ENHANCED (S 158 2N 017)

DATA: 1242 #716  
CALI: 1237 #3

BASE M/Z: 198  
RT: 67200.



927483

31 001313

9328.

Mass List  
03/10/84 21:45:00 + 11:56

Data: 1242 # 716  
Cali: 1237 # 3

Base m/z: 198  
RIC: 67200.

Sample:  
Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
Enhanced (S 15B 2M OT)

38 444 Mass	0.00 % RA	0.00 % RIC	0. # O Inten.	Minima Maxima Mass	Min Inten:	35. % RA % RIC	Inten.
39.00?	3.16	0.44	295.	174.00	0.43	0.06	40.
44.00	0.46	0.06	43.	175.00	0.81	0.11	76.
50.00	11.86	1.65	1106.	179.00	2.14	0.30	200.
51.00	44.68	6.20	4168.	180.00	1.38	0.19	129.
52.00	1.67	0.23	156.	181.00	0.54	0.07	50.
56.00	0.79	0.11	74.	185.00	0.80	0.11	75.
57.00	2.34	0.32	218.	186.00	9.38	1.30	875.
63.00	1.13	0.16	105.	187.00	2.13	0.30	199.
65.00	0.48	0.07	45.	192.00	0.49	0.07	46.
69.00	47.00	6.52	4384.	193.00	0.58	0.08	54.
74.00	3.37	0.47	314.	196.00	4.13	0.57	385.
75.00	6.06	0.84	365.	198.00	100.00	13.88	7328.
76.00	3.15	0.44	294.	199.00	5.95	0.83	555.
77.00	51.20	7.11	4776.	202.00	0.41	0.06	38.
78.00	3.15	0.44	294.	204.00	2.17	0.30	202.
79.00	1.44	0.20	134.	205.00	4.02	0.56	375.
80.00	1.34	0.19	125.	206.00	18.61	2.58	1736.
81.00	2.29	0.32	214.	207.00	2.17	0.30	202.
82.00	0.41	0.06	38.	211.00	0.80	0.11	75.
83.00	0.44	0.06	41.	217.00	4.43	0.61	413.
86.00	0.44	0.06	41.	221.00	9.69	1.35	904.
92.00	0.40	0.06	37.	223.00	0.77	0.11	72.
93.00	2.94	0.41	274.	224.00	10.11	1.40	943.
98.00	1.91	0.26	178.	225.00	2.04	0.28	190.
99.00	2.18	0.30	203.	227.00	2.84	0.39	265.
101.00	1.11	0.15	104.	229.00	0.54	0.07	50.
104.00	0.44	0.06	41.	243.00	0.41	0.06	38.
105.00	0.50	0.07	47.	244.00	9.72	1.35	907.
107.00	11.00	1.53	1026.	245.00	0.85	0.12	79.
108.00	1.44	0.20	134.	246.00	0.76	0.11	71.
110.00	23.54	3.27	2196.	255.00	40.95	5.68	3820.
111.00	2.86	0.40	267.	256.00	5.55	0.77	518.
116.00	0.48	0.07	45.	258.00	1.35	0.19	126.
117.00	6.21	0.86	579.	265.00	0.43	0.06	40.
123.00	0.72	0.10	67.	273.00	0.98	0.14	91.
125.00	0.40	0.06	37.	274.00	3.46	0.48	323.
127.00	46.91	6.51	4376.	275.00	23.97	3.33	2236.
128.00	3.06	0.42	285.	276.00	2.73	0.38	255.
129.00	15.84	2.20	1478.	277.00	0.78	0.11	73.
130.00	0.98	0.14	91.	296.00	3.85	0.53	359.
135.00	0.89	0.12	83.	323.00	1.33	0.18	124.
137.00	0.38	0.05	35.	334.00	0.65	0.09	61.
141.00	1.07	0.15	100.	365.00	1.77	0.25	165.
147.00	0.65	0.09	61.	372.00	0.62	0.09	58.
148.00	1.38	0.19	129.	423.00	3.81	0.53	358.
155.00	0.57	0.08	53.	424.00	0.54	0.07	50.
156.00	1.07	0.15	100.	441.00	8.70	1.21	812.
161.00	0.51	0.07	48.	442.00	71.18	9.88	1564.
167.00	3.04	0.42	284.	443.00	12.89	1.72	1564.
168.00	1.92	0.27	179.	444.00	0.80	0.11	75.

027484

31 001314

## GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine

CASE NO. 2427 CONTRACTOR VERSAR INC. CONTRACT NO. 68-01-6756 (824)  
68-01-6757 (825)  
 INSTRUMENT ID 4000 DATE 03-12-84 TIME 10:40  
 RUN NUMBER 1253 QC REPORT NO. 2427 ANALYST SEP

## TUNE CHECK:

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	38
68	less than 2% of mass 69	Ø (Ø) <sup>1</sup>
69	mass 69 relative abundance	42
70	less than 2% of mass 69	Ø (Ø) <sup>1</sup>
127	40 - 60% of mass 198	44
197	less than 1% of mass 198	Ø
198	base peak, 100% relative abundance	100
199	5 - 9% of mass 198	6
275	10 - 30% of mass 198	26
365	greater than 1% of mass 198	2
441	less than mass 443	10
442	greater than 40% of mass 198	85
443	17 - 23% of mass 442	15 (17) <sup>2</sup>

1Value in parenthesis is % mass 69.

2Value in parenthesis is % mass 442.

Comments:

*Master EPA Criteria*

Revision Date 1/83

31

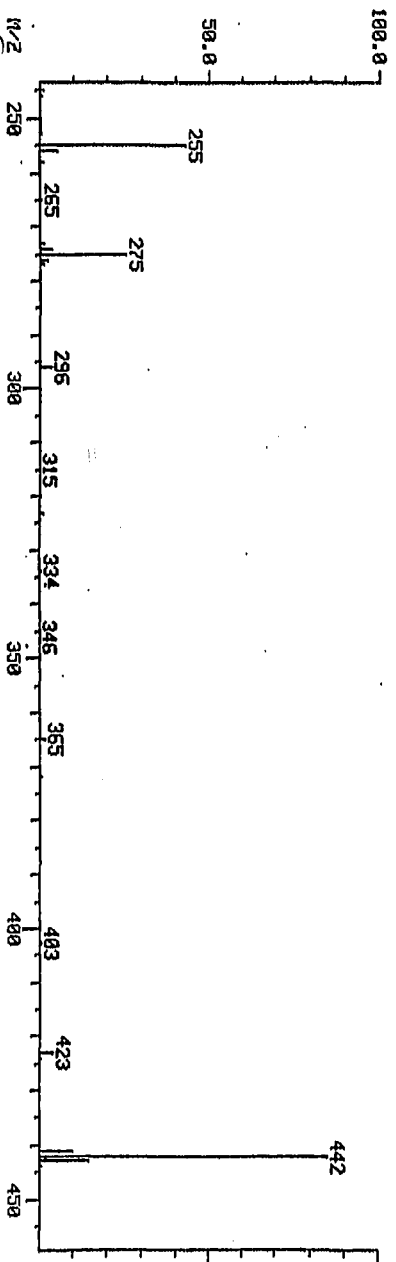
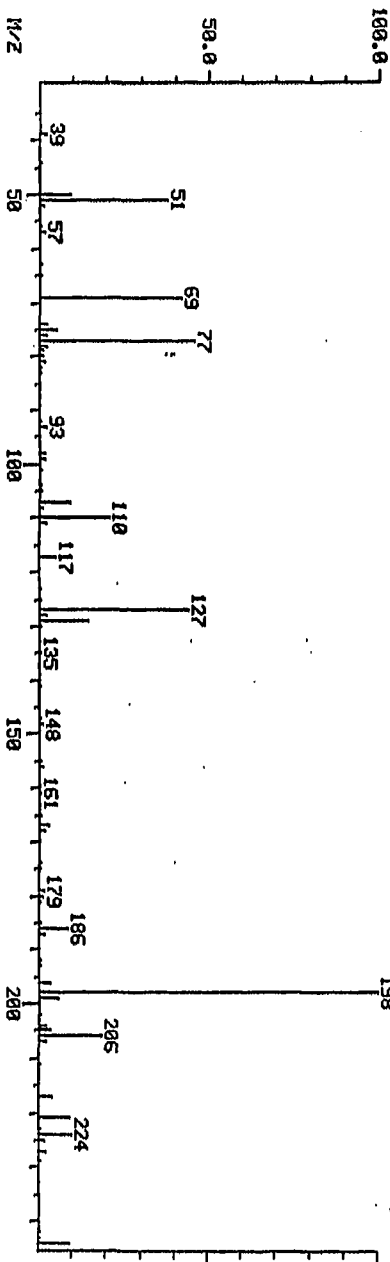
001315

027485

MASS SPECTRUM  
 03/12/84 10:40:00 + 11:58  
 SAMPLE: DFTPE 50KKG 1.2UL STD 1896  
 COND.S.: SPB-5 30KX0.32MMID 1.0UMIDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 158 ZN 0T)

DATA: 1253 #718  
 CALL: 1251 #3

BASE M/Z: 198  
 RIC: 42496.



027486  
 31 001316  
 5168.

Mass List

03/12/84 10:40:00 + 11:58

Data: 1253 # 718

Base m/z: 198

Call: 1251 # 3

RIC: 42496.

Sample: DFTPP 50NG 1.2UL STD 1886

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

Enhanced (S 15R 2N OT)

38 444 Mass	0.00 % RA	0.00 % RIC	# O Inten.	Minima Maxima Mass	Min Inten:	19. % RA % RIC	Inten.
39.00?	2.43	0.35	150.	181.00	0.39	0.06	24.
44.00	0.47	0.07	29.	185.00	0.79	0.12	49.
50.00	9.39	1.36	579.	186.00	8.90	1.29	549.
51.00	38.07	5.53	2348.	187.00	2.01	0.29	124.
52.00	1.22	0.18	75.	192.00	0.36	0.05	22.
56.00	0.60	0.09	37.	193.00	0.49	0.07	30.
57.00	1.65	0.24	102.	196.00	3.45	0.50	213.
63.00	0.68	0.10	42.	198.00	100.00	14.51	6168.
65.00	0.45	0.07	28.	199.00	5.58	0.81	344.
69.00	41.83	6.07	2580.	202.00	0.45	0.07	28.
74.00	2.59	0.38	160.	204.00	2.04	0.30	126.
75.00	5.20	0.76	321.	205.00	3.60	0.52	222.
76.00	2.32	0.34	143.	206.00	18.48	2.68	1140.
77.00	45.98	6.67	2836.	207.00	2.17	0.32	134.
78.00	2.55	0.37	157.	211.00	0.81	0.12	50.
79.00	1.02	0.15	63.	217.00	4.33	0.63	267.
80.00	0.89	0.13	55.	221.00	9.39	1.36	579.
81.00	1.82	0.26	112.	223.00	0.83	0.12	51.
82.00	0.36	0.05	22.	224.00	9.84	1.43	607.
83.00	0.36	0.05	22.	225.00	1.86	0.27	115.
92.00	0.34	0.05	21.	227.00	2.59	0.38	160.
93.00	2.35	0.34	145.	229.00	0.32	0.05	20.
98.00	1.52	0.22	94.	243.00	0.32	0.05	20.
99.00	1.70	0.25	105.	244.00	9.55	1.39	589.
101.00	0.79	0.12	49.	245.00	0.88	0.13	54.
104.00	0.39	0.06	24.	246.00	0.78	0.11	48.
105.00	0.44	0.06	27.	253.00	0.41	0.06	25.
107.00	9.35	1.36	577.	255.00	43.26	6.28	2668.
108.00	1.13	0.16	70.	256.00	5.30	0.77	327.
110.00	21.17	3.07	1306.	258.00	1.20	0.17	74.
111.00	2.37	0.34	146.	273.00	1.12	0.16	69.
117.00	5.33	0.77	329.	274.00	3.37	0.49	208.
123.00	0.68	0.10	42.	275.00	25.78	3.74	1590.
127.00	44.10	6.40	2720.	276.00	2.58	0.37	159.
128.00	2.56	0.37	158.	277.00	0.99	0.14	61.
129.00	14.67	2.13	905.	279.00	3.71	0.54	229.
130.00	0.65	0.09	40.	323.00	1.28	0.19	79.
135.00	0.84	0.12	52.	334.00	0.63	0.09	39.
141.00	0.81	0.12	50.	365.00	1.80	0.26	111.
147.00	0.57	0.08	35.	372.00	0.57	0.08	35.
148.00	1.20	0.17	74.	403.00	0.34	0.05	21.
153.00	0.65	0.09	40.	423.00	3.96	0.57	244.
156.00	0.97	0.14	60.	424.00	0.57	0.08	35.
161.00	0.36	0.05	22.	441.00	9.82	1.43	606.
165.00	0.36	0.05	22.	442.00	85.47	12.41	5272.
167.00	2.80	0.41	173.	443.00	14.70	2.13	907.
168.00	1.64	0.24	101.	444.00	0.81	0.12	50.
175.00	0.79	0.12	49.				
179.00	1.91	0.28	118.				
180.00	1.23	0.18	76.				

## GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine

CASE NO. 2427 CONTRACTOR VERSAR INC. CONTRACT NO. 68-01-6756 (824)  
68-01-6757 (825)INSTRUMENT ID 4000 DATE 03-13-84 TIME 9:15RUN NUMBER 1264 QC REPORT NO. 2427 ANALYST SeP

## TUNE CHECK:

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	51
68	less than 2% of mass 69	0 (1)
69	mass 69 relative abundance	50
70	less than 2% of mass 69	0 (1)
127	40 - 60% of mass 198	47
197	less than 1% of mass 198	0
198	base peak, 100% relative abundance	100
199	5 - 9% of mass 198	6
275	10 - 30% of mass 198	24
365	greater than 1% of mass 198	2
441	less than mass 443	9
442	greater than 40% of mass 198	76
443	17 - 23% of mass 442	14 (1.0)2

1Value in parenthesis is % mass 69.

2Value in parenthesis is % mass 442.

Comments:

Meets EPA Criteria

Revision Date 1/83

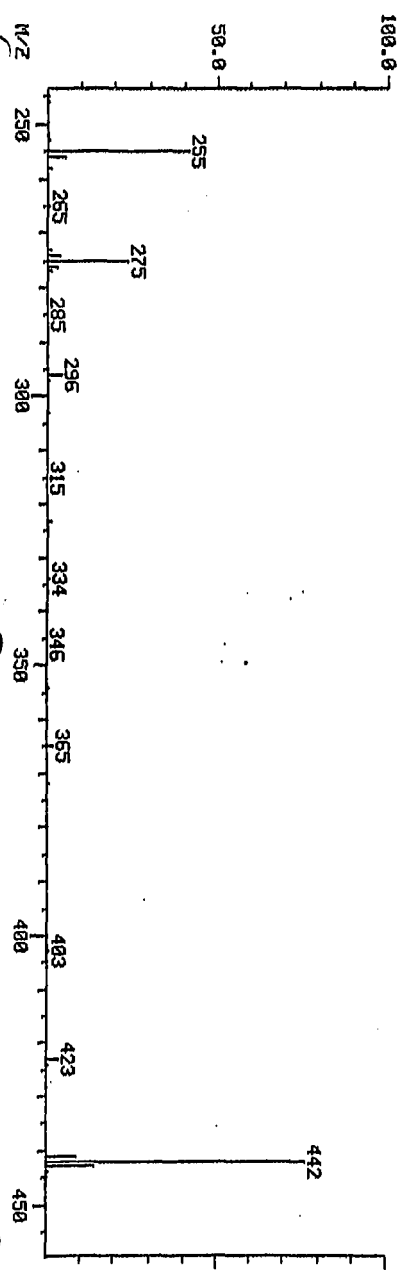
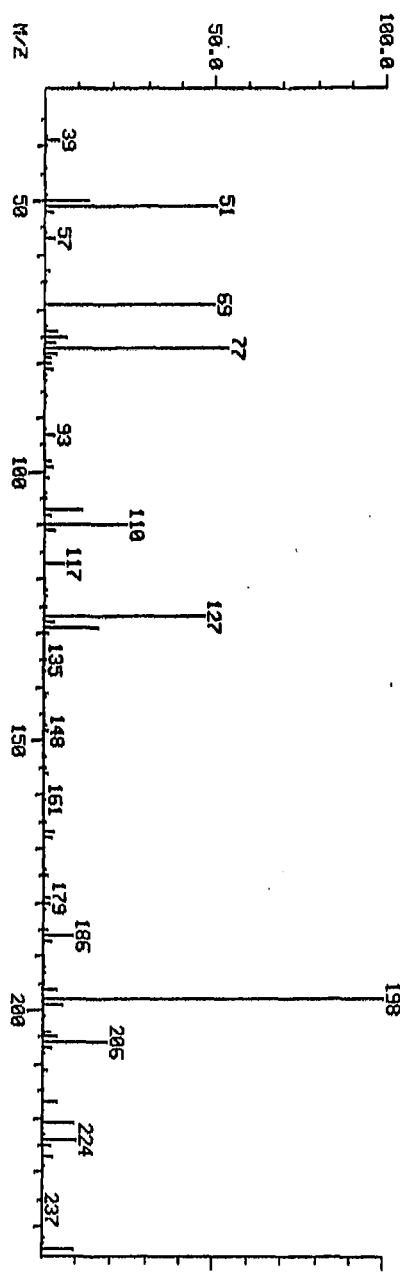
027488

31 001318 x



MASS SPECTRUM  
 03/13/84 9:15:00 + 10:01  
 SAMPLE: DITPP 50MG 1.2UL STD 1886  
 CONDUS.: SPB-5 30MX0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 158 2M 0T)

DATA: 1264 #501  
 CALL: 1258 #3  
 BASE M/Z: 198  
 RIC: 62720.



8416.

31 001319 x 027489  
 8416.

Mass List

Data: 1264 # 601

Base m/z: 198

03/13/84 9:15:00 + 10:01

Cali: 1258 # 3

RIC: 62720.

Sample: DFTPP 50NG 1.2UL STD 1886

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

Enhanced (S 15B 2N OT)

3B 444 Mass	0.00 % RA	0.00 % RIC	0. # 0 Inten.	Minima Maxima Mass	Min Inten:	34. % RA % RIC	Inten.
38.007	0.45	0.06	38.	168.00	2.29	0.31	193.
39.007	3.96	0.53	333.	175.00	0.96	0.13	81.
44.00	0.65	0.09	55.	179.00	2.03	0.27	171.
49.00	0.50	0.07	42.	180.00	1.46	0.20	123.
50.00	12.81	1.72	1078.	181.00	0.61	0.08	51.
51.00	50.57	6.79	4256.	185.00	0.91	0.12	77.
52.00	2.06	0.28	173.	186.00	8.89	1.19	748.
56.00	0.87	0.12	73.	187.00	2.20	0.29	185.
57.00	2.78	0.37	234.	192.00	0.49	0.07	41.
63.00	1.16	0.16	98.	193.00	0.58	0.08	49.
65.00	0.55	0.07	46.	196.00	3.85	0.52	324.
69.00	50.00	6.71	4208.	198.00	100.00	13.42	8416.
73.00	0.51	0.07	43.	199.00	5.67	0.76	477.
74.00	3.68	0.49	307.	204.00	2.25	0.30	189.
75.00	6.62	0.89	557.	205.00	3.91	0.52	329.
76.00	2.91	0.39	245.	206.00	18.32	2.46	1542.
77.00	54.28	7.28	4568.	207.00	2.57	0.34	216.
78.00	3.65	0.49	307.	208.00	0.52	0.07	44.
79.00	1.60	0.22	135.	211.00	0.96	0.13	81.
80.00	1.51	0.20	127.	217.00	4.31	0.58	363.
81.00	2.57	0.34	216.	221.00	9.40	1.26	791.
82.00	0.50	0.07	42.	223.00	0.76	0.10	64.
83.00	0.55	0.07	46.	224.00	9.93	1.33	836.
86.00	0.48	0.06	40.	225.00	2.08	0.28	175.
93.00	2.83	0.38	238.	227.00	2.79	0.37	235.
98.00	1.88	0.25	158.	229.00	0.53	0.07	45.
99.00	2.39	0.32	201.	244.00	9.57	1.28	805.
101.00	1.21	0.16	102.	245.00	0.87	0.12	73.
104.00	0.46	0.06	39.	246.00	0.80	0.11	67.
105.00	0.50	0.07	42.	253.00	0.45	0.06	38.
107.00	10.93	1.47	920.	255.00	41.06	5.51	3456.
108.00	1.54	0.21	130.	256.00	5.51	0.74	464.
110.00	24.03	3.22	2022.	258.00	1.25	0.17	105.
111.00	2.86	0.38	241.	273.00	1.01	0.14	85.
117.00	5.94	0.80	500.	274.00	3.42	0.46	288.
123.00	0.67	0.09	56.	275.00	23.88	3.20	2010.
125.00	0.53	0.07	45.	276.00	2.67	0.36	225.
127.00	46.82	6.28	3940.	277.00	0.89	0.12	75.
128.00	3.14	0.42	264.	296.00	3.81	0.51	321.
129.00	15.76	2.11	1326.	323.00	1.35	0.18	114.
130.00	1.00	0.13	84.	334.00	0.68	0.09	57.
135.00	0.87	0.12	73.	365.00	1.62	0.22	136.
137.00	0.55	0.07	46.	372.00	0.57	0.08	48.
141.00	1.21	0.16	102.	423.00	3.70	0.50	311.
147.00	0.75	0.10	63.	424.00	0.64	0.09	54.
148.00	1.39	0.19	117.	441.00	8.98	1.21	756.
155.00	0.69	0.09	58.	442.00	76.05	10.20	027090
156.00	1.06	0.14	89.	443.00	13.71	1.84	1154.
161.00	0.50	0.07	42.	444.00	0.81	0.11	68.
167.00	2.95	0.40	248.				

## GC/MS PERFORMANCE STANDARD

Decafluorotriphenylphosphine

CASE NO. 2427 CONTRACTOR VERSAR INC. CONTRACT NO. 68-01-6756 (824)  
68-01-6757 (825)INSTRUMENT ID 4000 DATE 03-14-84 TIME 10:54RUN NUMBER 1268 QC REPORT NO. 2427 ANALYST SEP

## TUNE CHECK:

m/e	Ion Abundance Criteria	% Relative Abundance
51	30 - 60% of mass 198	37
68	less than 2% of mass 69	∅ (∅) <sup>1</sup>
69	mass 69 relative abundance	41
70	less than 2% of mass 69	∅ (∅) <sup>1</sup>
127	40 - 60% of mass 198	44
197	less than 1% of mass 198	∅
198	base peak, 100% relative abundance	100
199	5 - 9% of mass 198	5
275	10 - 30% of mass 198	25
365	greater than 1% of mass 198	2
441	less than mass 443	10
442	greater than 40% of mass 198	88
443	17 - 23% of mass 442	15 (17,3) <sup>2</sup>

1Value in parenthesis is % mass 69.

2Value in parenthesis is % mass 442.

Comments:

*Match EPA Criteria*

Revision Date 1/83

31 001321 027491

Mass List

Data: 1268 # 714

Base m/z: 198

03/14/84 10:54:00 + 11:54

Call: 1251 # 3

RIC: 31744.

Sample: DFTPP 50NG 1.2UL STD 1886

Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 24MIN

Enhanced (S 158 2N 0T)

39 444 Mass	0.00 % RA	0.00 % RIC	0 # Inten.	0 Minima 0 Maxima Mass	Min Inten:	14. % RA % RIC	Inten.
39.007	2.18	0.32	102.	185.00	0.92	0.14	43.
40.00	0.30	0.04	14.	186.00	8.78	1.29	411.
44.00	0.51	0.08	24.	187.00	1.54	0.23	72.
50.00	9.89	1.46	463.	192.00	0.34	0.05	16.
51.00	37.44	5.52	1752.	193.00	0.38	0.06	18.
52.00	1.09	0.16	51.	196.00	3.53	0.52	165.
56.00	0.62	0.09	29.	198.00	100.00	14.74	4680.
57.00	1.47	0.22	69.	199.00	5.15	0.76	241.
63.00	0.94	0.14	44.	202.00	0.32	0.05	15.
69.00	41.32	6.09	1934.	204.00	2.01	0.30	94.
74.00	2.29	0.34	107.	205.00	3.38	0.50	198.
75.00	4.79	0.71	224.	206.00	18.18	2.68	851.
76.00	2.25	0.33	106.	207.00	2.31	0.34	108.
77.00	44.70	6.59	2092.	211.00	0.43	0.06	20.
78.00	2.35	0.35	110.	217.00	4.19	0.62	196.
79.00	0.94	0.14	44.	221.00	8.40	1.24	393.
80.00	0.88	0.13	41.	223.00	0.73	0.11	34.
81.00	1.50	0.22	70.	224.00	9.21	1.36	431.
83.00	0.45	0.07	21.	225.00	1.84	0.27	86.
93.00	2.37	0.35	111.	227.00	2.52	0.37	118.
98.00	1.32	0.20	62.	229.00	0.32	0.05	15.
99.00	1.73	0.26	81.	244.00	9.36	1.38	438.
101.00	0.90	0.13	42.	245.00	0.71	0.10	33.
105.00	0.34	0.05	16.	246.00	0.53	0.08	25.
107.00	9.70	1.43	454.	255.00	44.36	6.54	2076.
108.00	1.05	0.15	49.	256.00	5.21	0.77	244.
110.00	21.37	3.15	1000.	258.00	1.26	0.19	59.
111.00	2.20	0.32	103.	265.00	0.32	0.05	15.
117.00	5.28	0.78	247.	273.00	0.90	0.13	42.
123.00	0.62	0.09	29.	274.00	3.10	0.46	145.
125.00	0.43	0.06	20.	275.00	24.79	3.65	1160.
127.00	44.27	6.59	2072.	276.00	2.39	0.35	112.
128.00	2.48	0.37	116.	277.00	0.79	0.12	37.
129.00	14.70	2.17	688.	296.00	3.74	0.55	175.
130.00	0.45	0.07	21.	323.00	1.03	0.15	48.
135.00	0.62	0.09	29.	334.00	0.60	0.09	28.
141.00	0.79	0.12	37.	365.00	1.60	0.24	75.
147.00	0.47	0.07	22.	372.00	0.58	0.09	27.
148.00	0.90	0.13	42.	423.00	4.06	0.60	190.
155.00	0.53	0.08	25.	424.00	0.56	0.08	26.
156.00	0.71	0.10	33.	441.00	9.87	1.46	462.
161.00	0.32	0.05	15.	442.00	88.55	13.05	4144.
167.00	2.56	0.38	120.	443.00	15.41	2.27	721.
168.00	1.94	0.29	91.	444.00	0.85	0.13	40.
174.00	0.30	0.04	14.				
175.00	0.56	0.08	26.				
177.00	0.34	0.05	16.				
179.00	1.69	0.25	79.				
180.00	1.22	0.18	57.				
181.00	0.41	0.06	19.				

31 001322027492

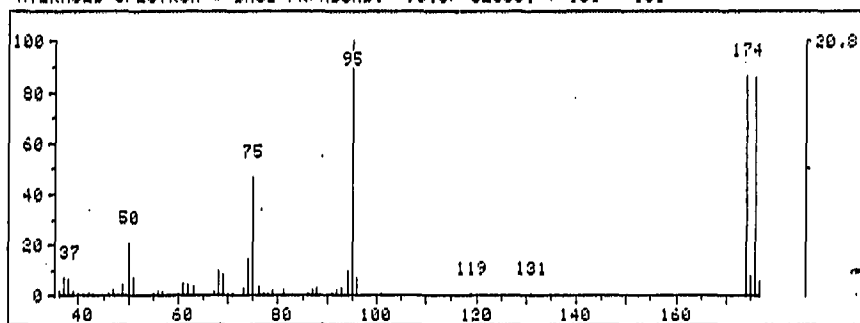
VOR BFB#1145 2UL 50NG  
 24950 32 10020 2/17/84 MB/PM  
 PK 1.0

B

FRN 24950, CRN 32  
 206 SCANS ( 208 SCANS, 6.97 HINS)  
 MASS RANGE: 33.0, 199.1 TOTAL ABUND= 986812.

20 40 60 80 100 120 140 160 180 200  
 SCAN #

AVERAGED SPECTRUM \* BASE PK/ABUND: 95.0/ 32000. + 131 -101



AVERAGED SPECTRUM: FRN 24950, 47 PEAKS

M/2	REL ABUND	M/2	REL ABUND	M/2	REL ABUND	M/2	REL ABUND
36	1.9	56	1.4	74	14.6	93	3.4
37	7.1	57	2.0	75	47.0	94	10.1
38	6.2	60	.6	76	3.9	95	100.0
39	1.8	61	5.2	77	.4	96	7.2
40	.3	62	4.6	78	.3	101	.1
42	.4	63	3.4	79	2.5	119	.2
46	.1	67	1.4	81	2.3	131	.1
47	2.3	68	9.9	86	.1	174	86.4
49	4.8	69	8.7	87	2.5	175	7.6
50	21.1	70	.6	88	3.4	176	85.7
51	7.3	71	.1	91	.3	177	6.0
55	.4	73	3.1	92	2.5		

>PAUSE

31

001323 X  
 027493

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene

CASE NO. 2427

CONTRACTOR VERSAR INC.

CONTRACT NO. 68-01-6756 (824)  
68-01-6757 (825)

INSTRUMENT ID HP 5993

DATE 2-17-84

TIME 10:00

RUN NUMBER 24950

QC REPORT NO. 2427

ANALYST PJM/AB

TUNE CHECK:

<u>m/e</u>	<u>Ion Abundance Criteria</u>	<u>% Relative Abundance</u>
50	15 - 40% of the base peak	21
75	30 - 60% of the base peak	47
95	Base peak, 100% relative abundance	100
96	5 - 9% of the base peak	7.2
173	Less than 1% of the base peak	0
174	Greater than 50% of the base peak	86.4
175	5 - 9% of mass 174	7.6 (8.8) <sup>1</sup>
176	Greater than 95%, but less than 101% of 174	85.7 (99) <sup>1</sup>
177	5 - 9% of mass 176	6.0 (7.0) <sup>2</sup>

<sup>1</sup>Value in parenthesis is % of mass 174.  
<sup>2</sup>Value in parenthesis is % of mass 176.

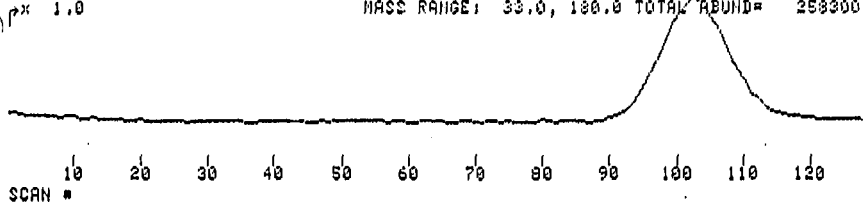
Comments: meets EPA Criteria

Revision Date 1/83

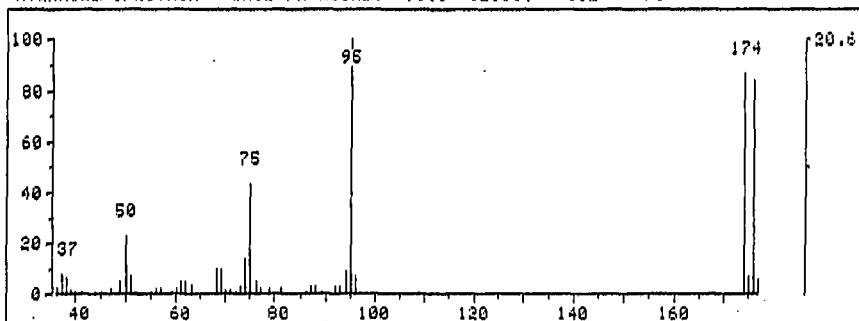
**027494**

31 001324 y

VOR BFB 50HG 2UL  
 24969 32 AR2 10020 2/20/84 BB/MB 1030 128 SCANS (128 SCANS, 4.37 MINS)  
 PK 1.0 MASS RANGE: 33.0, 130.0 TOTAL ABUND= 253300.



AVERAGED SPECTRUM \* BASE PK/ABUND: 95.0/32000. + 102 -70



AVERAGED SPECTRUM: FRN 24969, 45 PEAKS

M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
36	2.2	55	.4	72	.3	92	2.7
37	7.7	56	2.4	73	2.7	93	3.0
38	6.3	57	2.4	74	13.7	94	9.1
39	1.9	59	.7	75	43.5	95	100.0
40	.2	60	2.3	76	4.8	96	7.0
41	.4	61	4.9	77	2.1	174	86.7
44	.4	62	5.1	79	2.4	175	7.5
45	.6	63	3.5	81	2.4	176	83.6
47	2.5	68	9.9	86	.3	177	5.6
49	5.1	69	10.1	87	3.2		
50	23.0	70	2.0	88	2.9		
51	7.0	71	1.9	89	.2		

>PAUSE

027495

31 001325

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene

CASE NO. 2427 CONTRACTOR VERSAR INC. CONTRACT NO. 68-01-6756 (824)  
 INSTRUMENT ID 5990 DATE 2-20-84 TIME 1030  
 RUN NUMBER 24969 QC REPORT NO. 2427 ANALYST BB/MB

TUNE CHECK:

m/e	Ion Abundance Criteria	% Relative Abundance
50	15 - 40% of the base peak	23.0
75	30 - 60% of the base peak	43.5
95	Base peak, 100% relative abundance	100
96	5 - 9% of the base peak	7.0
173	Less than 1% of the base peak	0
174	Greater than 50% of the base peak	86.7
175	5 - 9% of mass 174	7.5 (8.6) <sup>1</sup>
176	Greater than 95%, but less than 101% of 174	83.6 (96.4) <sup>2</sup>
177	5 - 9% of mass 176	5.6 (6.7) <sup>2</sup>

<sup>1</sup>value in parenthesis is % of mass 174.  
<sup>2</sup>value in parenthesis is % of mass 176.

Comments:

*Meets EPA criteria*

Revision Date 1/83

31 001326 027496



VOA BFB#1145 2UL SONG CASE 2427


24981 32 10020 824 0920 2/21/84 NB/PM

FRN 24981, CRN 32  
308 SCANS ( 308 SCANS, 6.87 MINS)

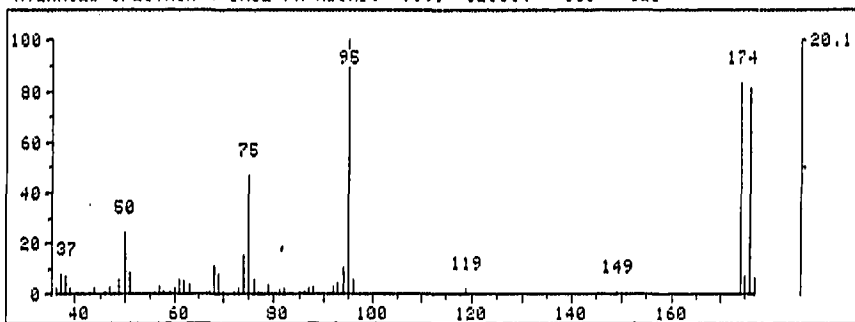
\*X 1.0

MASS RANGE: 33.0, 197.0 TOTAL ABUND= 627144.

SCAN #



AVERAGED SPECTRUM \* BASE PK/ABUND: 95.0/ 32000. + 153 -121



AVERAGED SPECTRUM: FRN 24981, 46 PEAKS

M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
36	2.7	58	.5	74	15.2	93	4.3
37	7.7	59	.5	75	47.0	94	10.3
38	7.4	60	2.7	76	5.9	95	100.0
39	2.5	61	5.6	77	.9	96	6.1
44	2.7	62	5.2	79	3.5	119	2.4
46	.2	63	4.0	81	1.6	149	.1
47	3.0	67	.3	82	2.4	174	83.3
49	6.0	68	11.6	85	.1	175	7.5
50	24.2	69	7.7	86	.3	176	91.1
51	8.7	70	.6	87	2.5	177	6.5
56	1.0	72	.5	88	2.8		
57	3.0	73	2.6	92	3.3		

>PAUSE

31 001327 \*

027497

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene

CASE NO. 2427 CONTRACTOR VER SAR INC. CONTRACT NO. 68-01-6756 (824)  
68-01-6757 (825)  
 INSTRUMENT ID 5990 A DATE 2/21/84 TIME 0910  
 RUN NUMBER 24987 QC REPORT NO. 2427 ANALYST PM/MB

TUNE CHECK:

<u>m/e</u>	<u>Ion Abundance Criteria</u>	<u>% Relative Abundance</u>
50	15 - 40% of the base peak	24.2
75	30 - 60% of the base peak	47.0
95	Base peak, 100% relative abundance	100
96	5 - 9% of the base peak	6.1
173	Less than 1% of the base peak	0
174	Greater than 50% of the base peak	83.3
175	5 - 9% of mass 174	7.5 (9.0) <sup>1</sup>
176	Greater than 95%, but less than 101% of 174	81.1 (97) <sup>1</sup>
177	5 - 9% of mass 176	6.5 (8.0) <sup>2</sup>

<sup>1</sup>Value in parenthesis is % of mass 174.  
<sup>2</sup>Value in parenthesis is % of mass 176.

Comments: Meets EPA criteria

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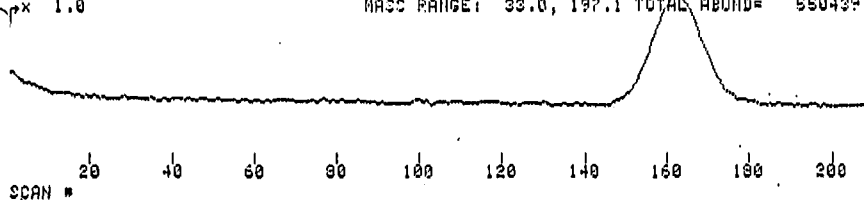
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Revision Date 1/83

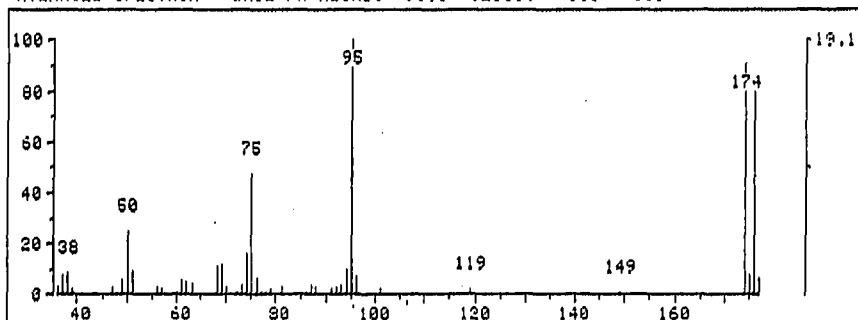
027498

31 001328

VOA BFB#1145 2UL 50MG CASE2427  
 24995 33 10020 924 0900 1/22/84 MB FM 208 SCANS ( 208 SCANS, 6.97 MINS)  
 \*X 1.0 MASS RANGE: 33.0, 197.1 TOTAL ABUND= 550439.



AVERAGED SPECTRUM \* BASE PK/ABUND: 95.0/ 32000. + 161 -130



AVERAGED SPECTRUM: FRN 24995, 42 PEAKS

M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND	M/Z	REL ABUND
36	2.8	61	5.6	77	.3	95	100.0
37	8.1	62	5.2	78	.6	96	7.4
38	8.5	63	4.6	79	2.5	101	2.6
39	2.5	68	11.4	81	3.2	119	2.4
47	2.8	69	11.7	86	.2	149	.1
49	5.7	70	2.8	87	3.9	174	91.0
50	24.9	72	.1	88	3.4	175	7.7
51	9.1	73	3.5	91	2.3	176	86.5
56	3.0	74	16.2	92	3.0	177	5.5
57	2.4	75	47.9	93	3.9		
60	1.1	76	6.5	94	10.0		

>PAUSE

027499

31 001329

GC/MS PERFORMANCE STANDARD

Bromofluorobenzene

CASE NO. 2427 CONTRACTOR VERSAR INC. CONTRACT NO. 68-01-6756 (824)  
68-01-6757 (825)  
 INSTRUMENT ID HP5993 DATE 2/22/84 TIME 0900  
 RUN NUMBER 24995 QC REPORT NO. 2427 ANALYST MS/PM

TUNE CHECK:

<u>m/e</u>	<u>Ion Abundance Criteria</u>	<u>% Relative Abundance</u>
50	15 - 40% of the base peak	24.9
75	30 - 60% of the base peak	47.9
95	Base peak, 100% relative abundance	100.0
96	5 - 9% of the base peak	7.4
173	Less than 1% of the base peak	0
174	Greater than 50% of the base peak	91.0
175	5 - 9% of mass 174	7.7 (8.5) <sup>1</sup>
176	Greater than 95%, but less than 101% of 174	86.5 (95.0) <sup>2</sup>
177	5 - 9% of mass 176	6.5 (7.5) <sup>2</sup>

<sup>1</sup>Value in parenthesis is % of mass 174.  
<sup>2</sup>Value in parenthesis is % of mass 176.

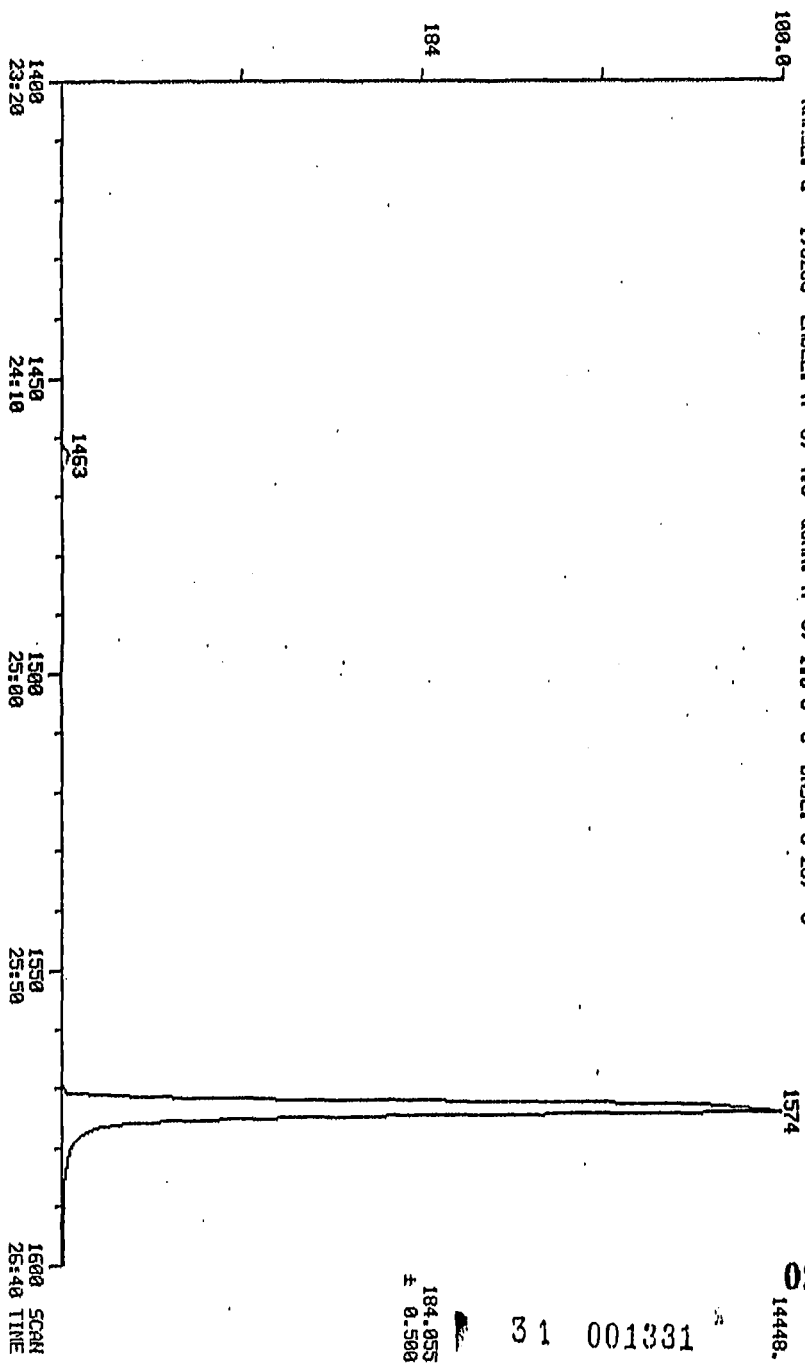
Comments:

*Meets EPA Criteria*

Revision Date 1/83 **027500**

**31 001330** Xx

MASS CHROMATOGRAM  
03/05/84 14:33:00 DATA: 1216 #661 SCANS 1400 TO 1600  
SAMPLE: BNA STANDARD SONG 1.2U. STD#1874 CALI: 1216 #3  
COND.: SPB-5 38MX0.32MMID 1.8UMDF 30C/4MIN TO 280@10C/MIN HOLD 25MIN  
RANGE: G 1.3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0 J 0 BASE: U 20, 3



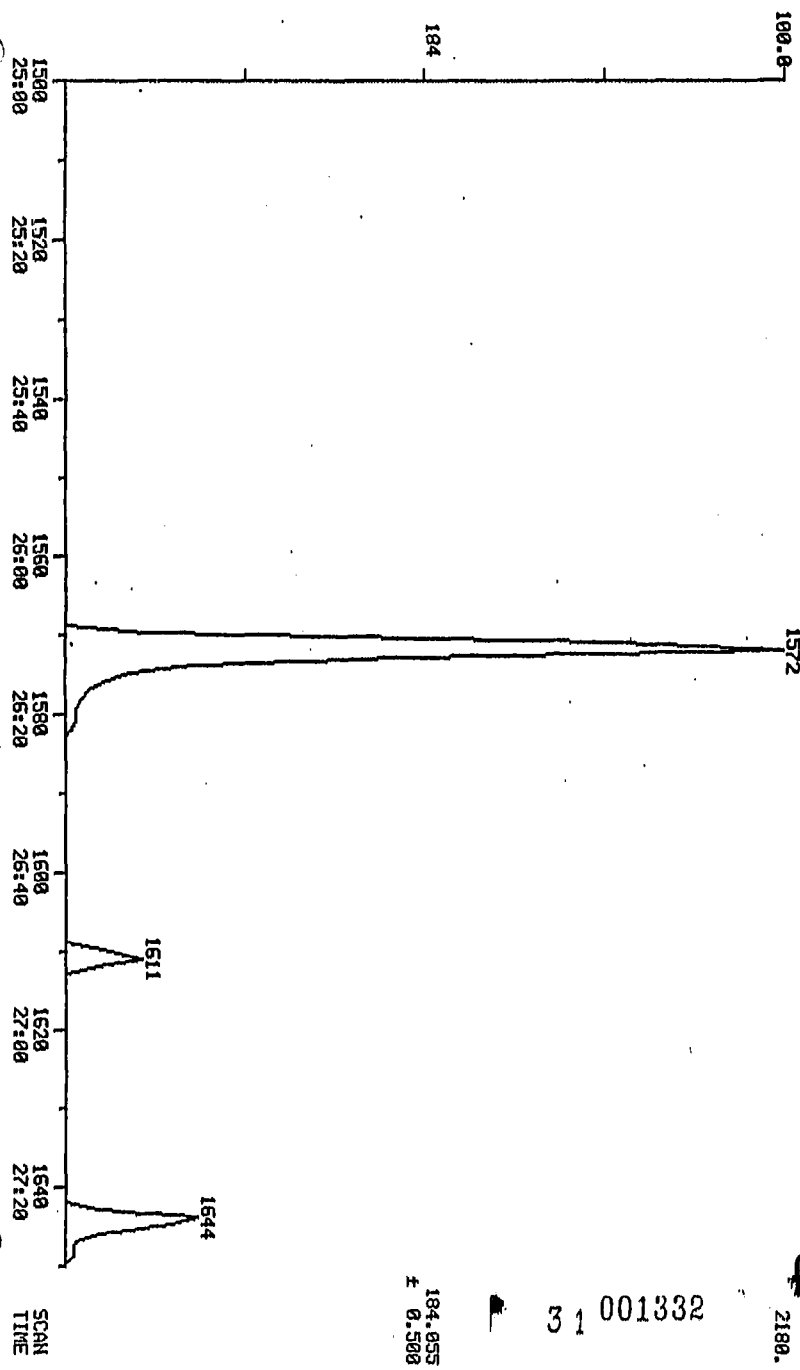
027501

31 001331

184.955  
± 0.500

1600 SCAN  
26:40 TIME

MASS CHROMATOGRAM  
 03/08/84 12:24:00  
 SAMPLE: BNA CALIBRATION CHECK STANDARD 58MG 1.2UL STORE1878  
 CONDS.: SPB-S 30X30.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 RANGE: G 1.3280 LABEL: N 0, 4.0 GURK: A 0, 1.0 J 0 BASE: U 20, 3  
 DATA: 1221 #561  
 CURT: 1221 #3  
 SCANS 1580 TO 1658



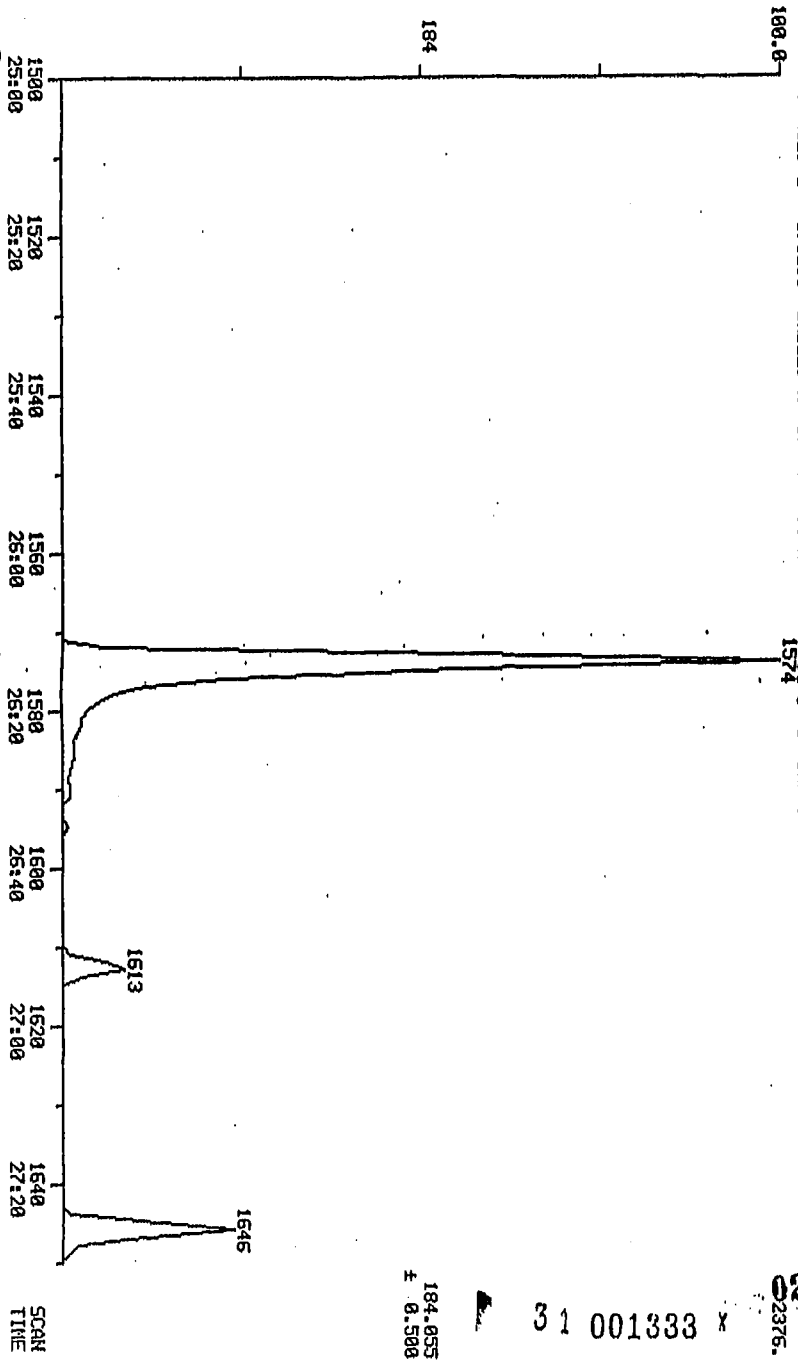
027502

31 001332

184.855  
± 0.500

2180.

MASS CHROMATOGRAM  
 DATE: 1235 #661  
 CALL: 1235 #3  
 SAMPLE: BNA CALIBRATION CHECK STANDARD 50NG 1.2UL STD 1885  
 COND5.: SPB-S 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 RANGE: C 1.3200 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3  
 SCANS 1500 TO 1650

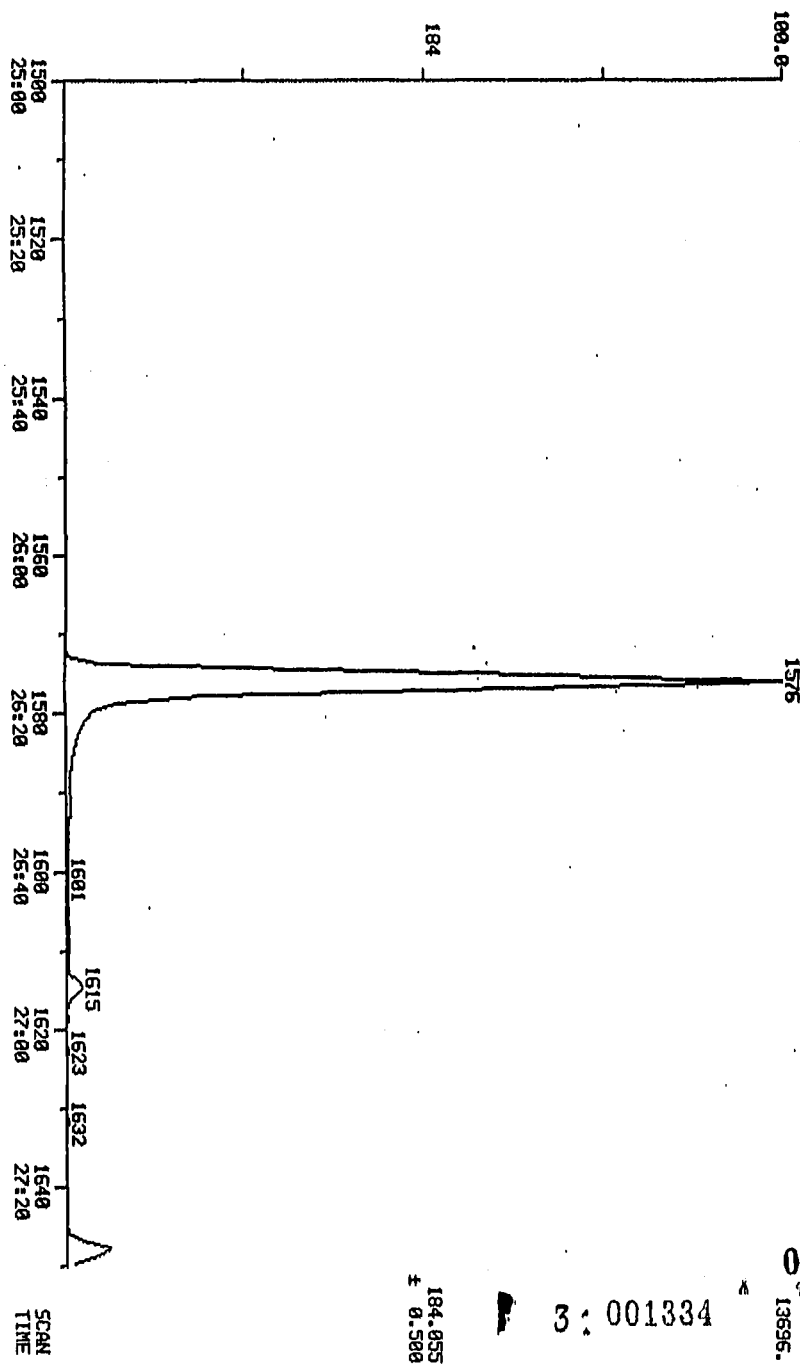


027503

31 001333 X

184.0553  
F 0.500

MASS CHROMATOGRAM  
 03/10/84 22:14:00  
 SAMPLE: BIA CALIBRATION CHECK STD#1885 1.2UL SEP  
 COND: : SPB-5 30M\*0.32MMID 1.0MM\* 30C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 RANGE: 6 1.3858 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BRST: U 20, 3  
 1576  
 DATE: 1243 1661  
 CALL: 1243 #3  
 SCANS 1500 TO 1650



027504

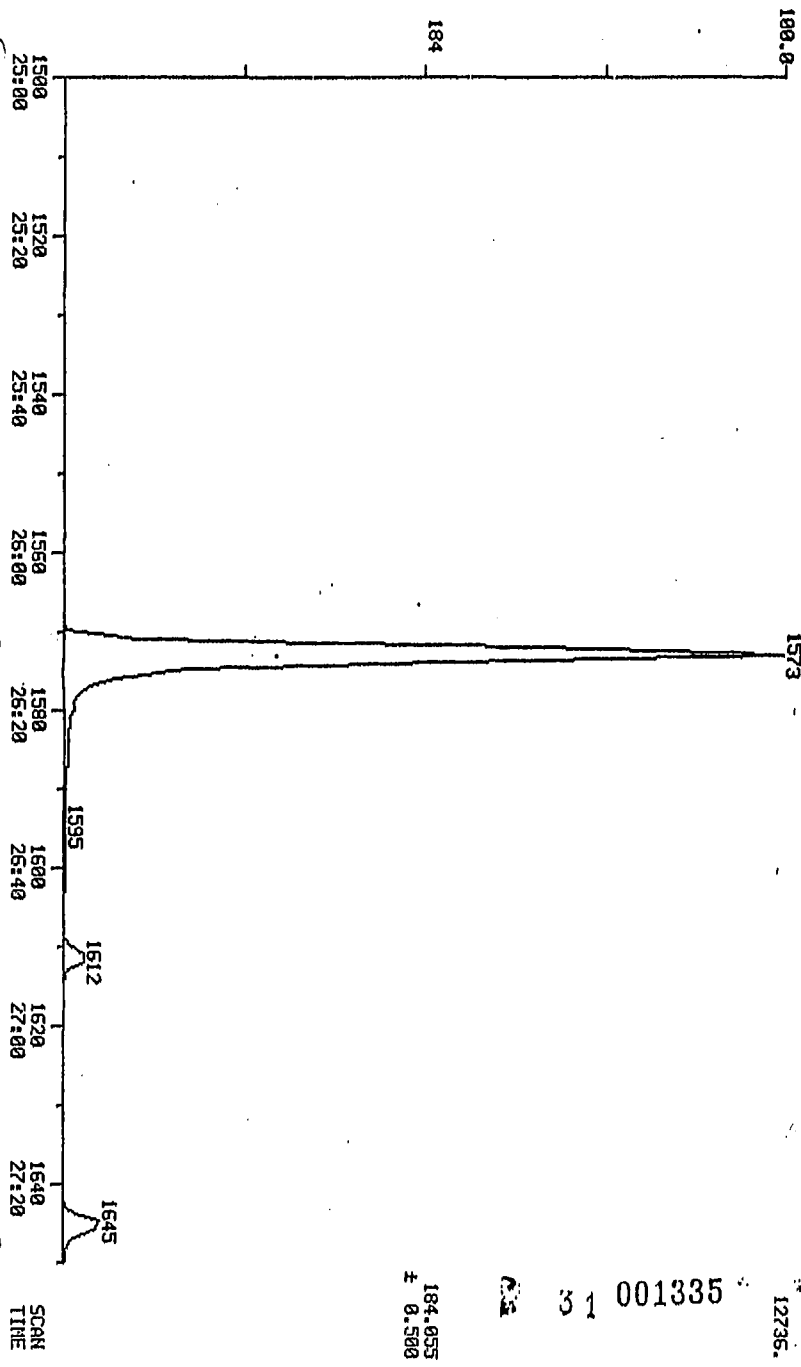
3: 001334

184.855  
F 0.500

13695.



MASS CHROMATOGRAM  
 03/13/84 10:36:00  
 SAMPLE: BHO CALIBRATION CHECK STANDARD 1.2UL STD 1887  
 COND.: SPB-5 30TK0.32MMID 1.0UMDF 300C/ANIN TO 280C/100C/NIN HOLD 26MIN  
 RANGE: G 1.3100 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3  
 1573  
 DATA: 1265 #651  
 CALL: 1265 #3  
 SCANS 1500 TO 1650

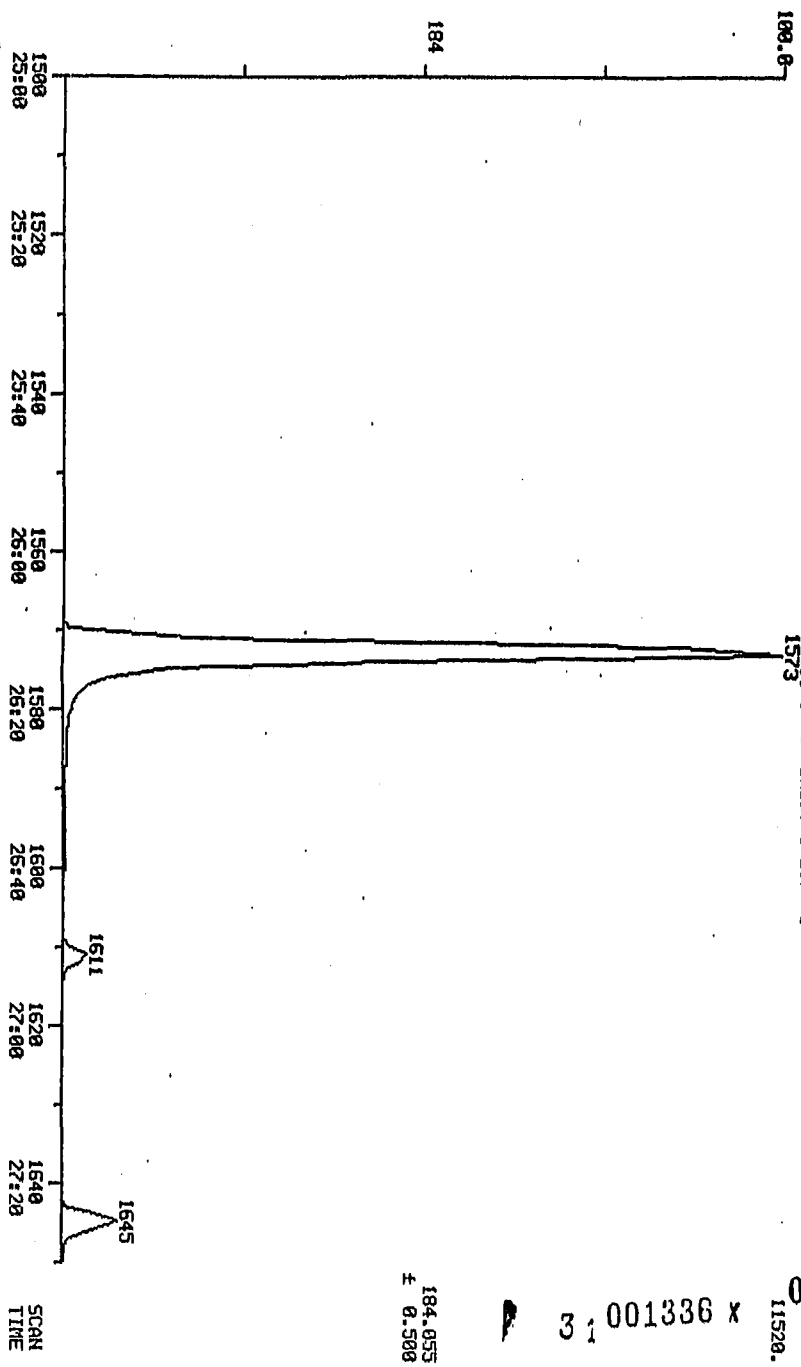


027505  
 12736.

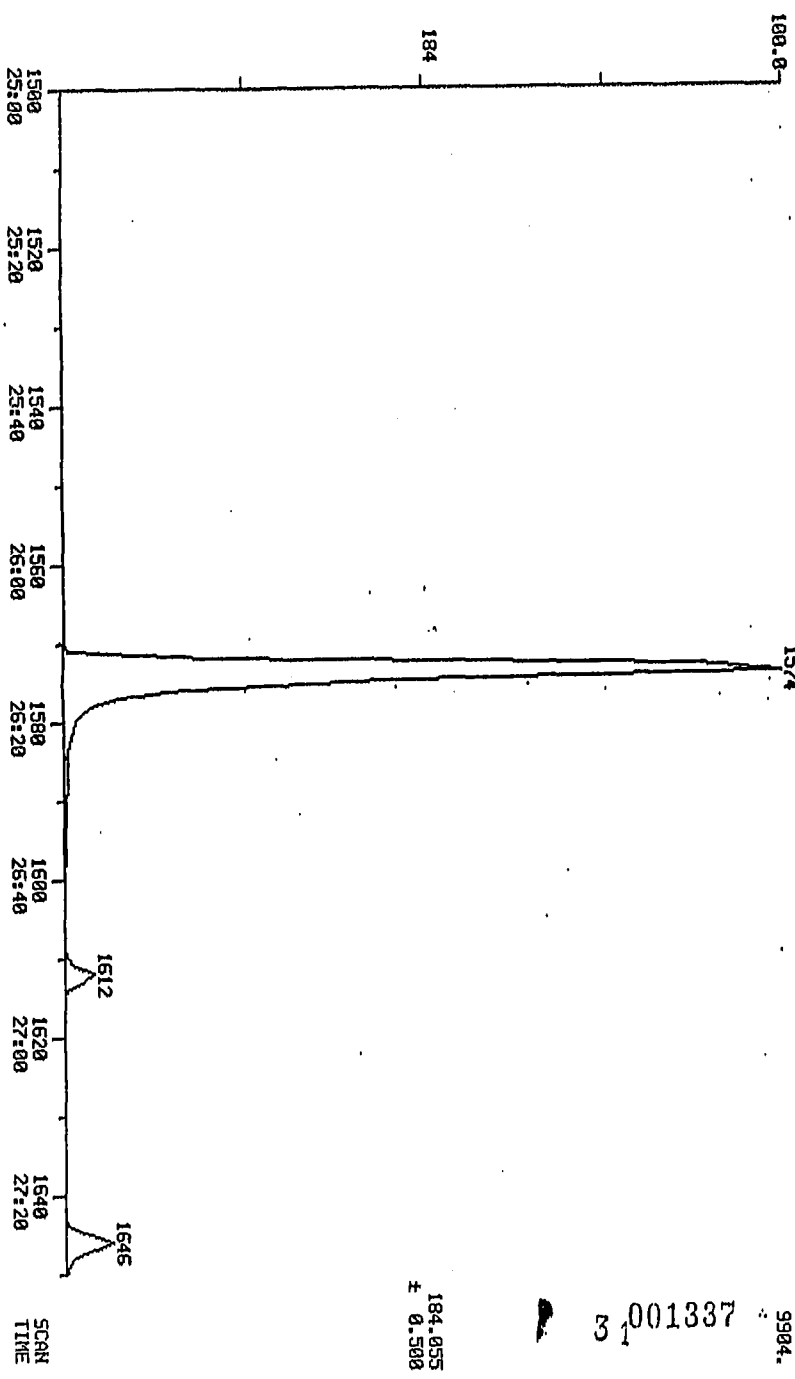
31 001335

184.055  
 ± 0.500

MASS CHROMATOGRAM  
 03/12/84 11:00:00  
 SAMPLE: BBN CALIBRATION CHECK STANDARD SONG 1.2UL STOR1887  
 COND: 5.1 SPB-5 30MK0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 RANGE: G 1.3100 LABEL: N 0, 4.0 QMNI: A 0, 1.0 J 0 BASE: U 20, 3  
 DATE: 1254 #661  
 CALI: 1254 #3  
 SCANS 1500 TO 1630



MASS CHROMATOGRAM  
 03/14/84 12:06:00  
 SAMPLE: BNA CALIBRATION CHECK STANDARD 1.2M STD#1887  
 COND.: SFB-5 300X0.32MMID 1.6UMDF 30C/MIN TO 280C10C/MIN HOLD 25MIN  
 RANGE: G 1.3100 LABEL: N 0, 4.0 QMNI: A 0, 1.0 J 0 BRSE: U 20, 3  
 1574  
 DATA: 1269 #661  
 CALI: 1269 #3  
 SCANS 1500 TO 1650

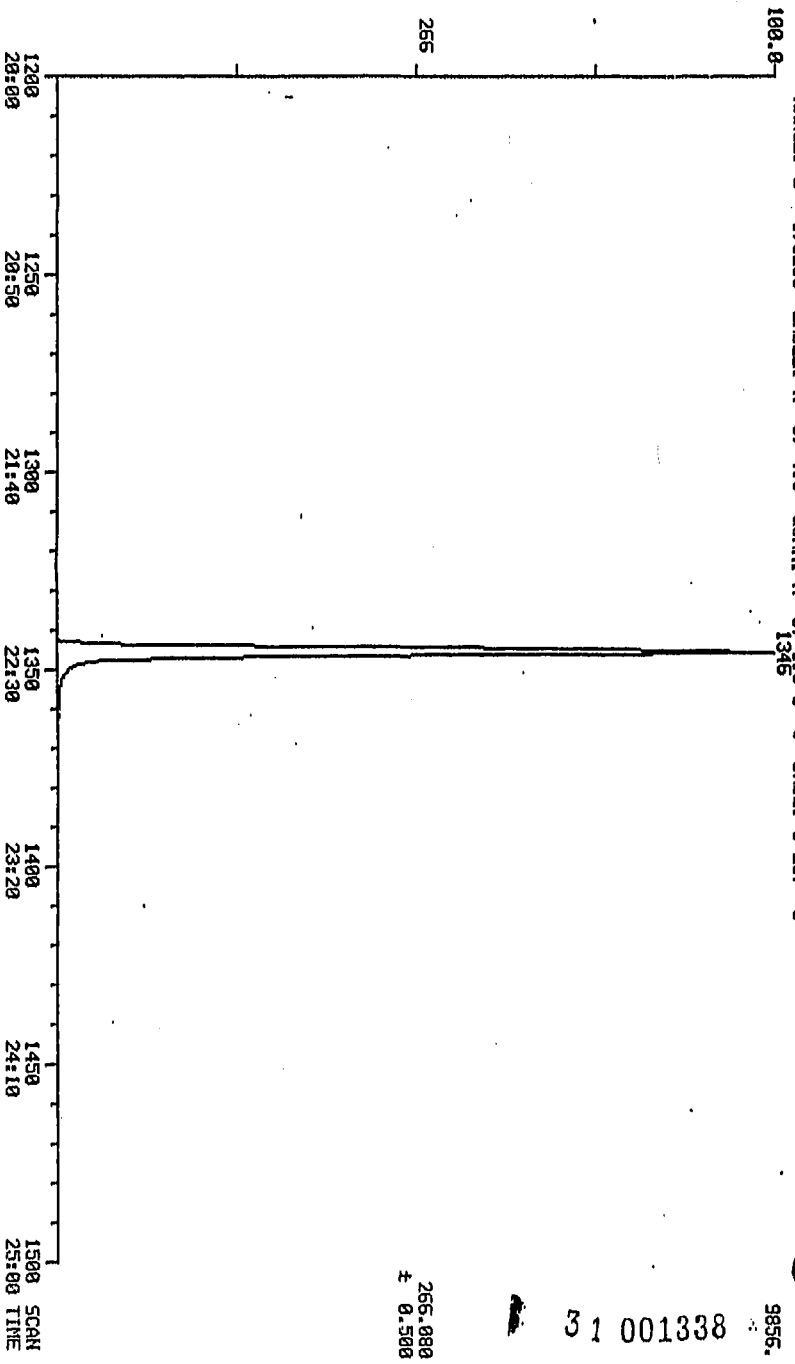


184.055  
 ± 0.500

31001337 9984-027507

MASS CHROMATOGRAM  
 03/05/84 14:33:00  
 SAMPLE: BNA STANDARD 50NG 1.2M STD#1874  
 COND.: SPB-5 30HT0.32MMID 1.0UMDF 30C/4MIN TO 280@10C/MIN HOLD 28MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3  
 1346

DATA: 1216 8661  
 CALL: 1216 #3  
 SCANS 1200 TO 1500



266.080  
 ± 0.500

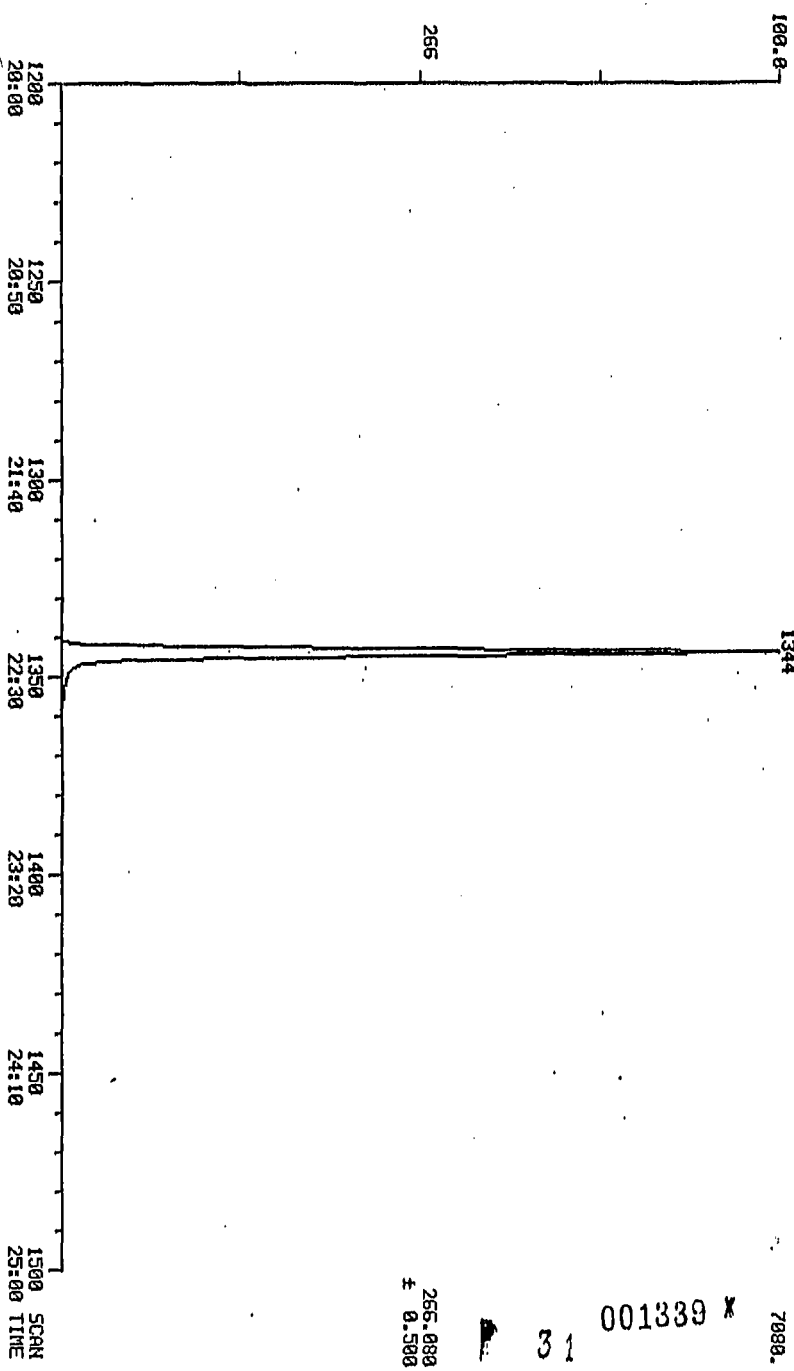
3 1 001338

027508

98956

MASS CHROMATOGRAM  
 03/08/84 12:24:00  
 SAMPLE: B16 CALIBRATION CHECK STANDARD 50MG 1.2UL STD#1878  
 COND: 1 SFB-5 30MK0.32MMID 1.0UMDF 30C/4MIN TO 280C210C/MIN HOLD 26MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3  
 1344

DATA: 1221 4651  
 CALL: 1221 43  
 SCANS 1200 TO 1500



266.080  
 ± 0.500

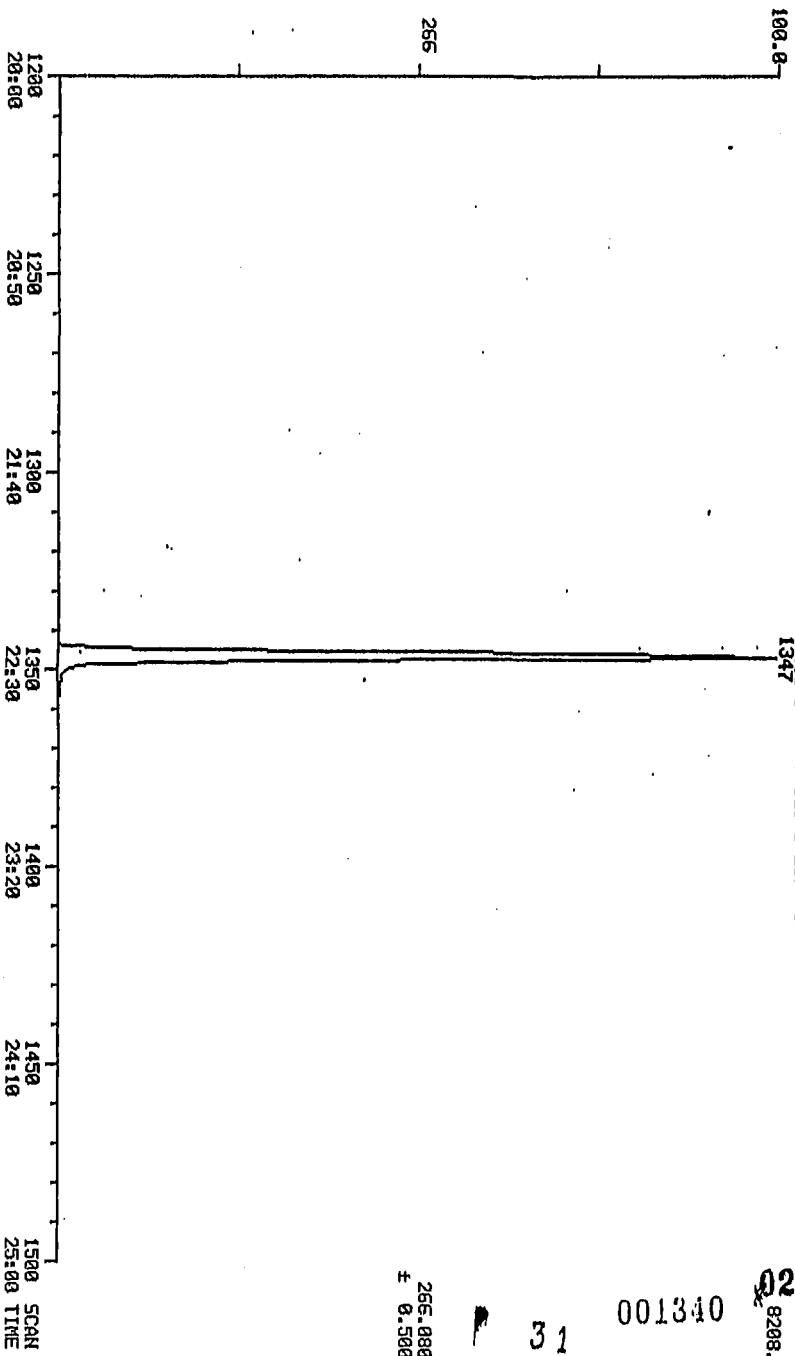
31 001339 \*

7898.

027509

MASS CHROMATOGRAM  
 03/10/84 13:31:00  
 SAMPLE: BNA CALIBRATION CHECK STANDARD SERVIC 1.2UL STD 1885  
 COND.: SP8-5 30HX0.32MMID 1.0UMDP 300/4MIN TO 280CELOC/MIN HOLD 26MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3  
 1347

DATA: 1235 #651  
 CALI: 1235 #3  
 SCANS 1200 TO 1500



027510  
 8208.

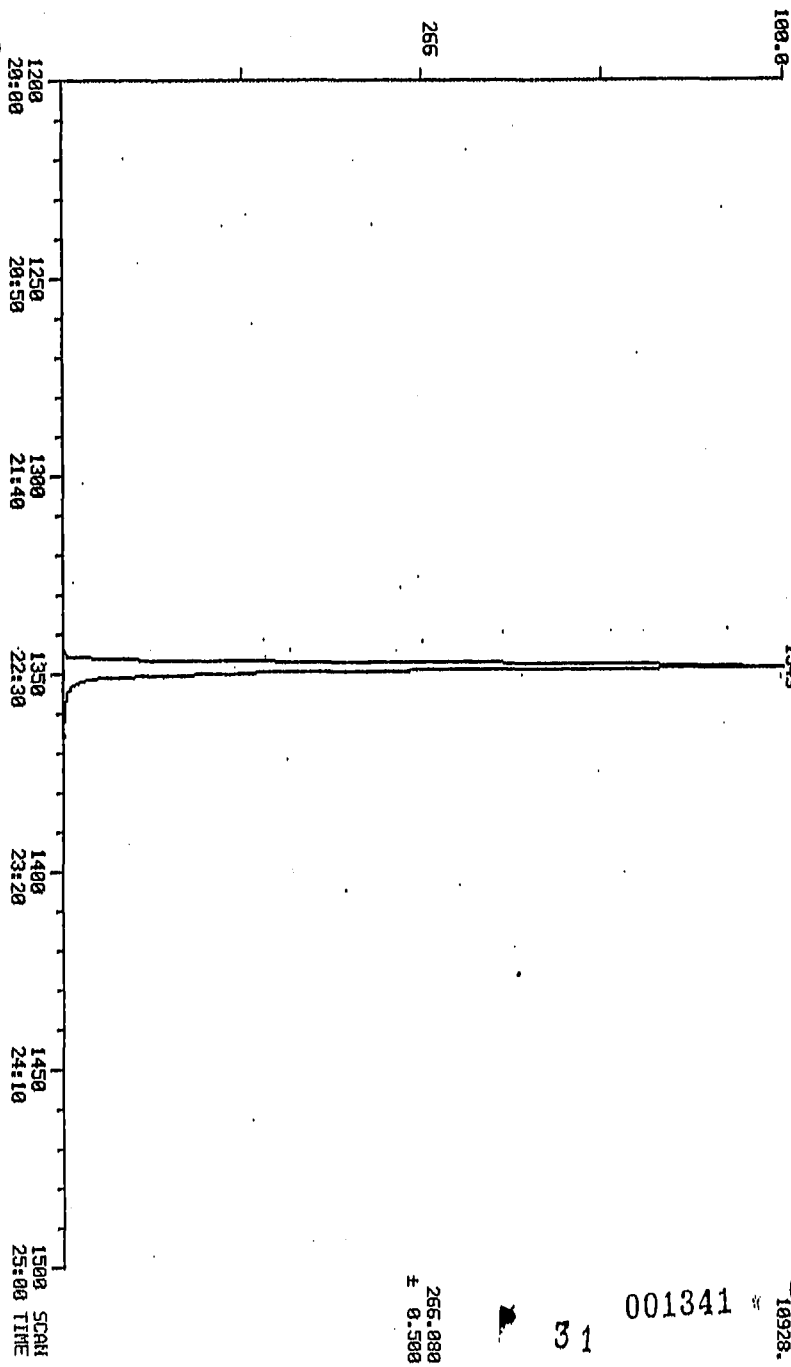
001340

31

265.888  
 # 0.508

1230 20:00  
 1250 20:50  
 1300 21:40  
 1350 22:30  
 1400 23:20  
 1450 24:10  
 1500 25:00 SCAN TIME

MASS CHROMATOGRAM  
 03/10/84 22:14:00  
 SAMPLE: BR9 CALIBRATION CHECK STD#1895 1.2H SEP  
 COND5: 5PB-5 307R0.32MINID 1.0UMDF 30C/4MIN TO 280C210C/4MIN HOLD 26MIN  
 RANGE: G 1.3098 LABEL: N 0, 4.0 QUAN: A 0, 1.8 J 0 BASE: U 20, 3  
 DATA: 1243 #651  
 CALL: 1243 #3  
 SCANS 1200 TO 1500

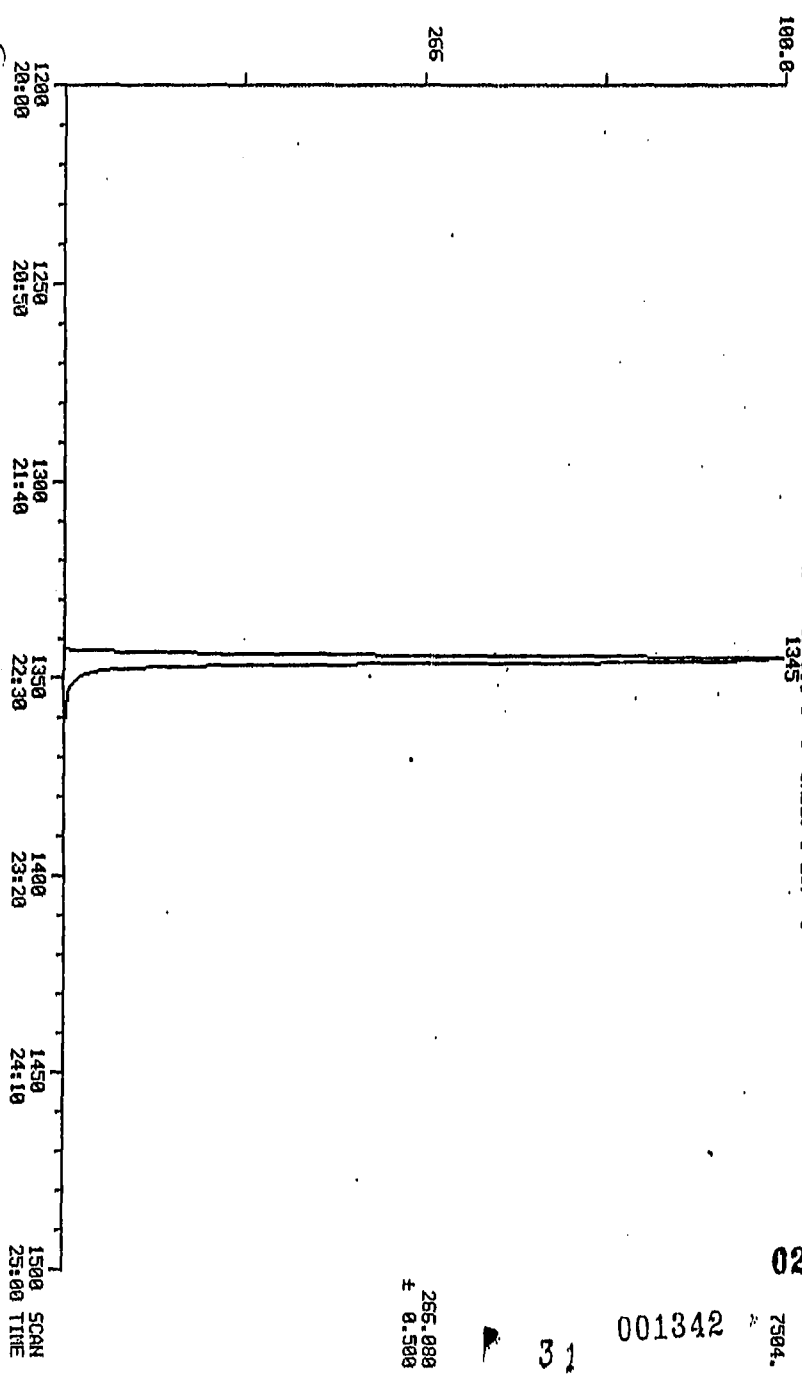


266.080  
 ± 0.508

31

001341 \* 027511  
 10928.

MASS GHRONATOGRAM  
 03/13/84 10:36:00  
 DATE: 1265 #661  
 CALL: 1265 #3  
 SAMPLE: BNA CALIBRATION CHECK STANDARD 1.2UL STD 1887  
 COND: SRB-5 30MHZ, 32MMID 1.0UMDF 30C/4MIN TO 280C10C/MIN HOLD 25MIN  
 RANGE: C 1.3109 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BRSE: U 20, 3  
 1343  
 SCANS 1200 TO 1500



027512

001342

7504.

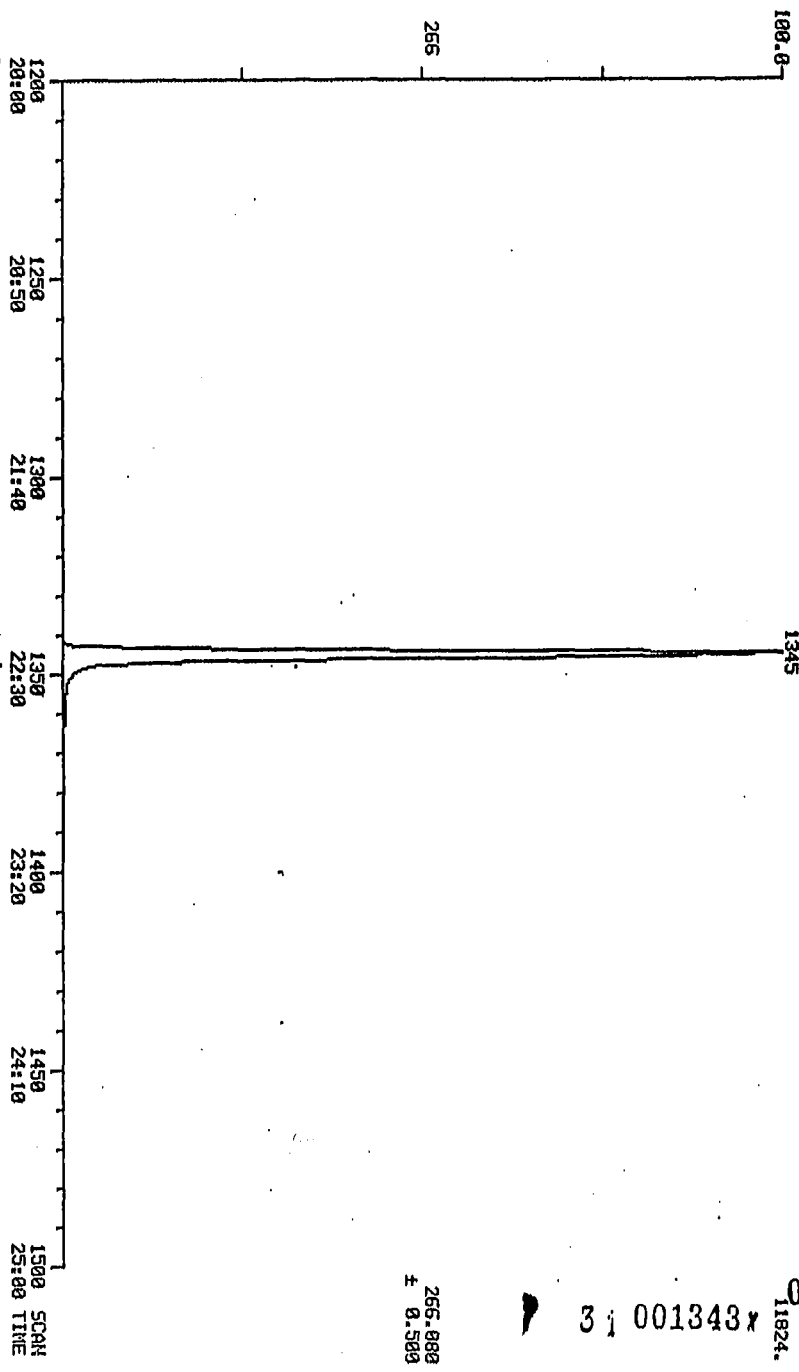
265.888  
± 0.500

31

1200 20:00  
 1250 20:50  
 1300 21:40  
 1350 22:30  
 1400 23:20  
 1450 24:10  
 1500 25:00  
 SCAN TIME



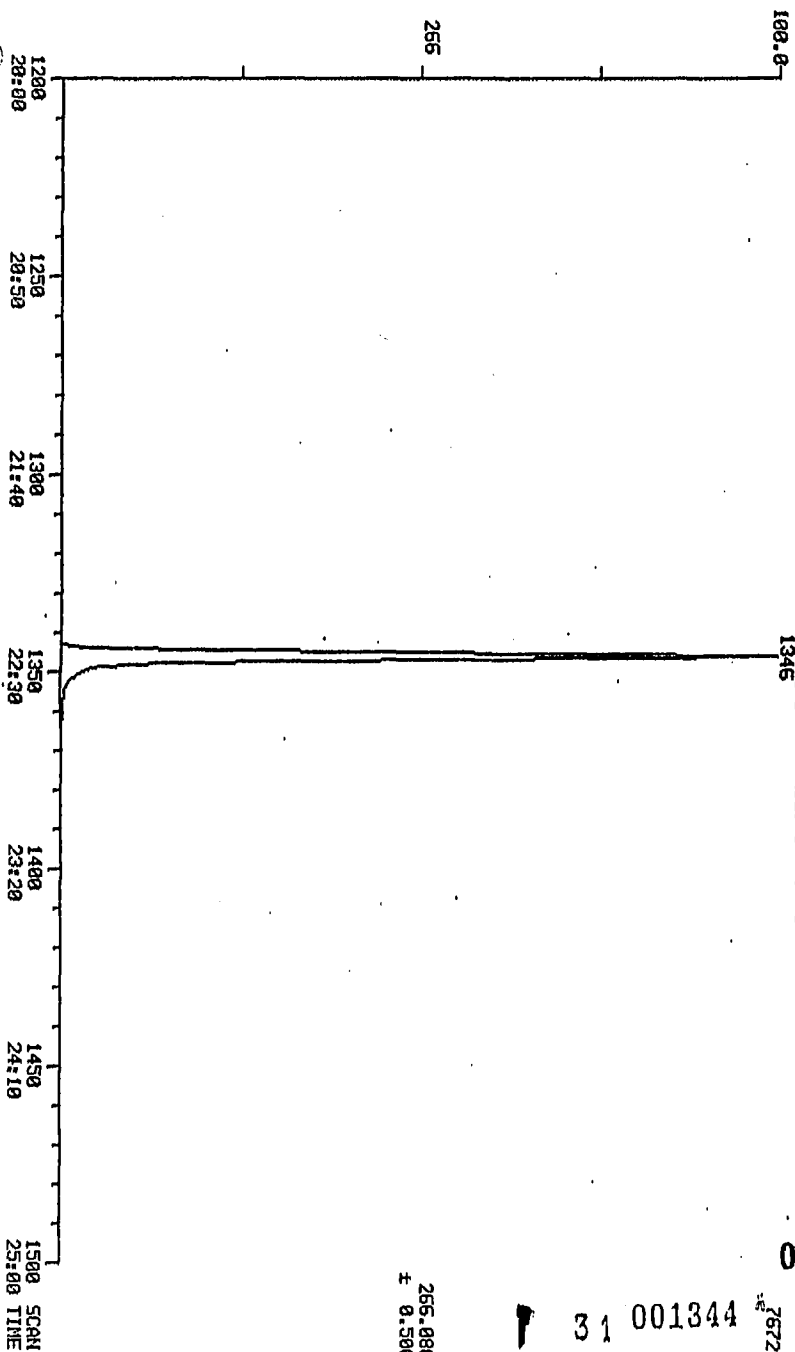
MASS CHROMATOGRAM  
 03/12/84 11:00:00 DATA: 1254 #651 SCANS 1200 TO 1500  
 CALI: 1254 #3  
 SAMPLE: BAN CALIBRATION CHECK STANDARD 50MG 1.2UL STD#1887  
 COND.: SPB-S 38MM\*0.32MMID 1.0UMDF 38C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 RANGE: G 1.3100 LABEL: N 0, 4.0 QUAN: A 0, 13.5 J 0 BASE: U 20, 3



265.989  
 F 0.500

31 001343x 027513  
 11824.

MASS CHROMATOGRAM  
 03/14/84 12:06:00 DATA: 1269 #661  
 SAMPLE: BNA CALIBRATION CHECK STANDARD I.2UL STD#1887 CAL I: 1269 #3  
 COND: SFB-5 30MM\*0.32MMID 1.0UM\*F 300/4MIN TO 2800/210C/MIN HOLD 25MIN SCANS 1200 TO 1500  
 RANGE: G 1.3100 LABEL: N 0, 4.0 Q/LAN: A 0, 1.0 J 0 BASE: U 20, 3  
 1345



027514

31 001344

256.088  
 ± 0.500

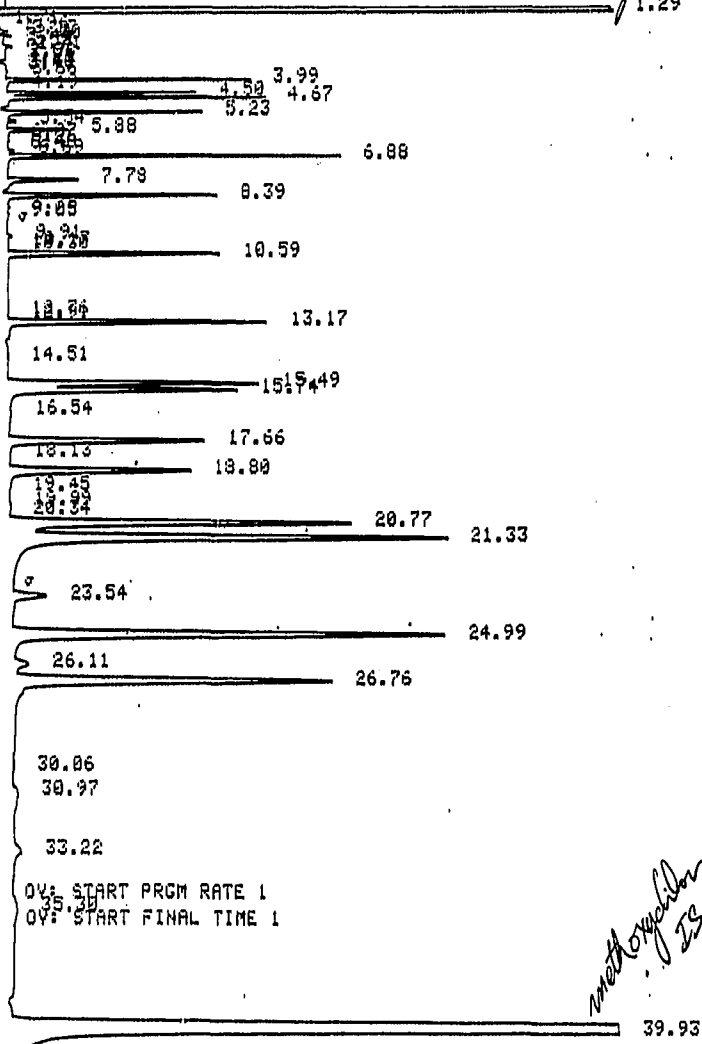
1500 SCAN  
 25:00 TIME

PR: AUTO SEQ  
OVEN TEMP NOT READY

*GC/ECD*  
Column Check

P693  
Pest Analysis  
1.29

RT: 12:54 MAR 13 1984  
RT: ATTN = 215



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

*Methoxyphenol*  
*JS*

OUT OF PAPER

OUT OF PAPER

31 001345  
027515

GC/ECD MODEL 7200/1100 9270 0215 BUFFALO NEW YORK

RUN IN PROGRESS PROGRAM IN PROGRESS RUN IN PROGRESS ON OT

AT 05:56:25 FINAL TIME 2  
RT: STOP RUN

EXP 5880A SAMPLER INJECTION @ 17:54 MAR 13, 1984  
SAMPLE #: ID CODE :  
98 P693+METHOXY  
PESTICIDE MIX CALIBRATION CURVE  
ESTD

*Post*

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							BASELINE @ START RUN = 313.84
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
3.99	3.99	582.43	BV	0.055	1	5.500E-02	A-BHC
4.50	4.50	533.43	BV	0.064	2	5.435E-02	B-BHC
4.67	4.68	756.97	VP	0.07 *	3	5.825E-02	G-BHC
5.23	5.25	650.81	PV	*0.074	4	5.850E-02	D-BHC
5.54		44.16	VB	-----*		1.325E-03	
5.88		199.86	BV	0.074		5.996E-03	
6.69		28.76	VV	*-----		8.628E-04	
6.89	6.89	1099.64	VB	0.076*	5	6.464E-02	HEPTACHLOR
7.78		362.29	BP	0.11 *		1.087E-02	
7.39	8.40	808.00	PB	0.087*	6	6.022E-02	ALDRIN
9.91		24.05	BP	0.097		7.215E-04	
10.59	10.60	934.54	BP	0.101	7	6.271E-02	HEPTEPOXIDE
13.17	13.19	1352.57	PB	0.120*	8	0.122	A-ENDOSULFAN
15.49	15.51	1498.81	BV	0.137	9	0.124	DIELDRIN
15.74	15.76	1477.06	VB	0.15	10	0.118	PP-DDE
17.66	17.72	1316.89	BB	0.154	11	0.131	ENDRIN
18.80	18.82	1323.14	BB	0.167*	12	0.125	B-ENDOSULFAN
20.77	20.79	2972.86	BV	0.199	13	0.359	PP-DDD
21.33	21.36	4391.33	VV	0.23	14	0.384	ENDRALDEHYDE
23.54		385.27	BB	0.209		9.158E-03	
24.99	25.02	4165.89	BV	0.220*	15	0.383	ENDOSULFSULF
26.11		190.16	VV	-----		5.785E-03	
26.76	26.79	3272.95	VB	0.24 *	16	0.398	PP-DDT
30.97		66.98	BB	-----*		2.809E-03	
33.22		111.92	BB	-----		3.358E-03	
35.30		128.95	BB	0.643		3.868E-03	
39.93	39.93	38924.70 +	BB	0.25 *	17	1.024	METHOXYCHLOR
44.99		28.94	BB	0.273		8.681E-04	
50.00							RP: REJECT → 1E+06

MULTIPLIER = 1

027516

31 001346 \*

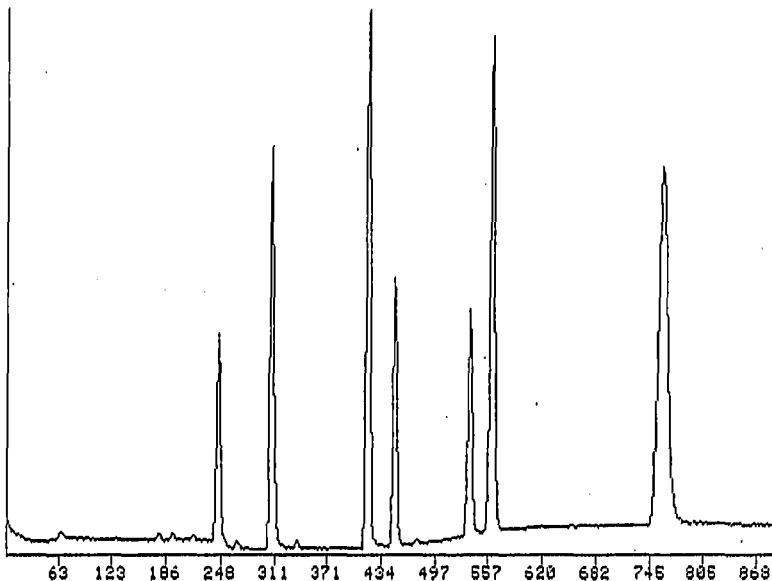
141

NAME: VOA REAGENT BLANK 5ML  
 MISC: 24951 32 10019 592.25/324 2/17/84 MB/PM

FRN 24951

47742

TL



AREA TABLE ENTRIES: FRN 24951

Entry	Time	Mass	Area	%	X R.F. = corr.	IS
1	10.3	127.7	12215.	100.0		IS
2	12.7	64.7	42835.	350.7	$\times 0.287 = 101.$	SS
3	13.7	61.7	799.	0.5	ms 3/15/84	

CALCULATE % ON ENTRY #1

AREA TABLE ENTRIES: FRN 24951

Entry	Time	Mass	Area	%		IS
1	18.1	76.7	26130.	100.0		IS
2	16.9	83.7	86381.	330.6	$\times 0.303 = 100.$	SS
3	16.9	77.7	895.	0.4	ms 3/15/84	

CALCULATE % ON ENTRY #1

AREA TABLE ENTRIES: FRN 24951

Entry	Time	Mass	Area	%		IS
1	21.4	54.7	28251.	100.0		IS
2	22.3	97.7	67776.	239.9	$\times 0.405 = 97.$	SS
3	29.9	94.7	72850.	257.9	$\times 0.376 = 97.$	SS

CALCULATE % ON ENTRY #1

027517

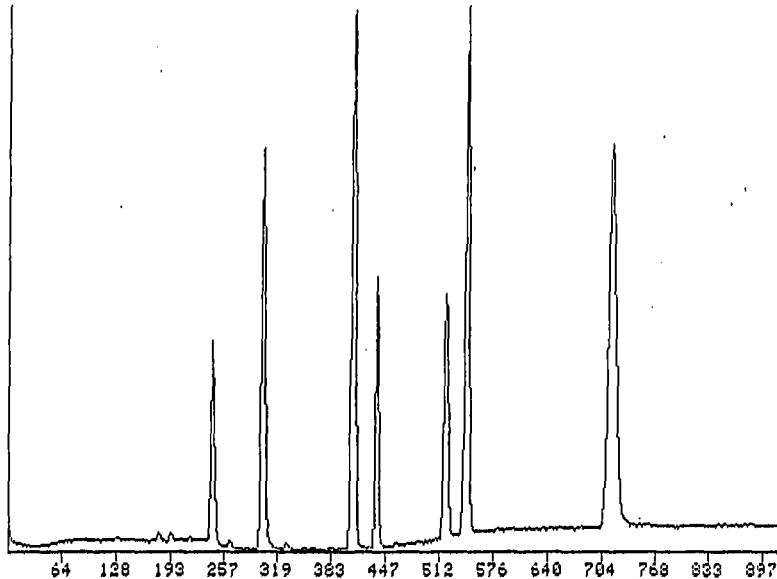
31 001347\*

NAME VOA REAGENT BLANK 5ML CASE2427  
 MISC 24970 32 10019 824 1055 2/20/84 MB/PM

FRN 24970

29246

T.L.



AREA TABLE ENTRIES: FRN 24970

Entry	Time	Mass	Area	%	R.F. = $\frac{Area}{Total\ Area}$	IS
1	10.4	127.7	6559.	100.0		SS
2	12.6	64.7	26145.		$398.6 \times 0.292 = 116.$	SS

CALCULATE % ON ENTRY #1

AREA TABLE ENTRIES: FRN 24970

Entry	Time	Mass	Area	%	R.F. = $\frac{Area}{Total\ Area}$	IS
1	17.7	76.7	12498.	100.0		SS
2	16.6	83.7	52973.		$423.9 \times 0.326 = 138.$	SS

CALCULATE % ON ENTRY #1

AREA TABLE ENTRIES: FRN 24970

Entry	Time	Mass	Area	%	R.F. = $\frac{Area}{Total\ Area}$	IS
1	20.8	54.7	17235.	100.0		SS
2	21.7	97.7	37593.		$219.1 \times 0.462 = 101.$	SS
3	28.4	94.7	40713.		$236.2 \times 0.441 = 104.$	SS

CALCULATE % ON ENTRY #1

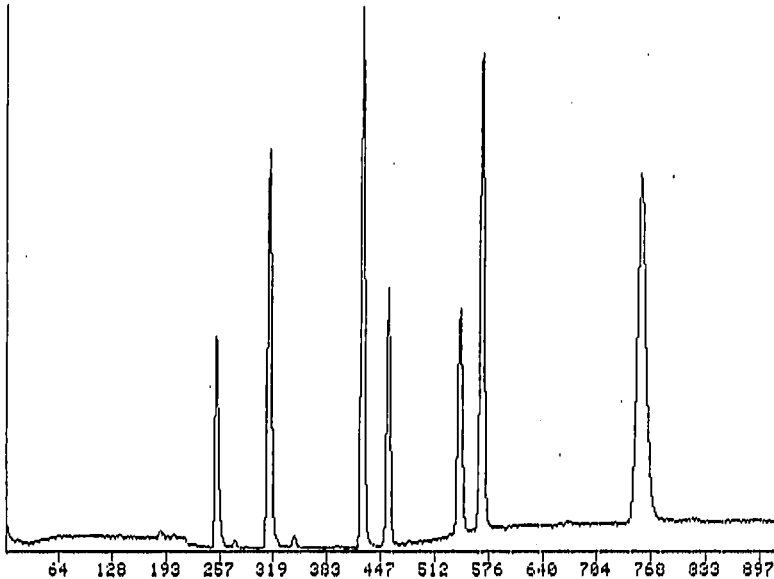
31 001348  
027518

NAME VOA REAGENT BLANK SML CASE 2427  
 MISC 24983 33 10019 824 2/21/84 1040 MB/PM

FRN 24983

30130

TI



AREA TABLE ENTRIES: FRN 24983

Entry	Time	Mass	Area	% x R.F. = conc. (ug/L)	IS	SS
1	10.7	127.7	8046.	100.0		
2	13.0	64.7	27040.	$336.1 \times 0.278 = 93.$		
<del>3</del>	<del>10.0</del>	<del>61.7</del>	<del>620.</del>	<del>6.8</del>		

3/15/84 CALCULATE % ON ENTRY #1

AREA TABLE ENTRIES: FRN 24983

Entry	Time	Mass	Area	%	IS	SS
1	18.4	76.7	16092.	100.0		
2	17.2	83.7	52161.	$324.2 \times 0.327 = 106.$		

CALCULATE % ON ENTRY #1

AREA TABLE ENTRIES: FRN 24983

Entry	Time	Mass	Area	%	IS	SS
1	21.7	54.7	17911.	100.0		
2	22.7	97.7	41299.	$230.6 \times 0.439 = 101.$		
3	29.9	94.7	42443.	$237.0 \times 0.433 = 103.$		

CALCULATE % ON ENTRY #1

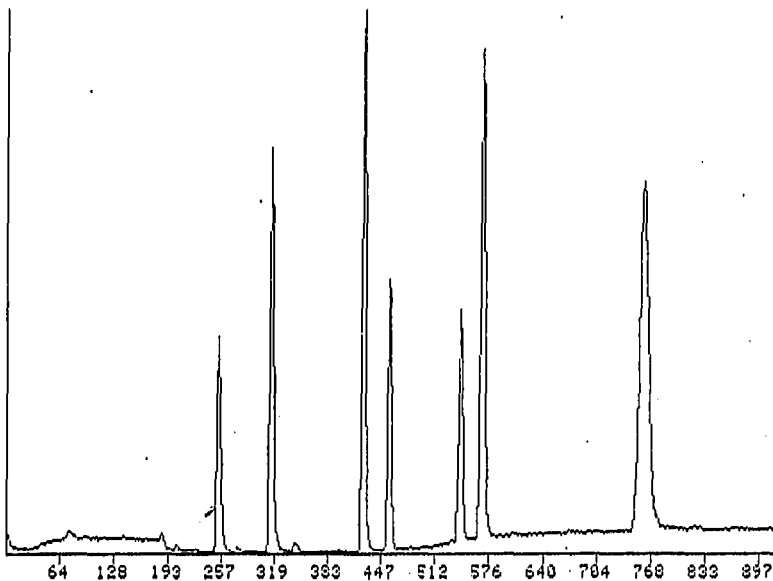
31 001349  
 027519

NAME V06 REAGENT BLANK 5ML CASE 2427  
 MISC 24997 33 10019 824 1035 2/22/84 MB/PM

FRN 24997

27779

TI



AREA TABLE ENTRIES: FRN 24997

Entry	Time	Mass	Area	%	$\times R.F. = conc. (ppm)$	IS
1	10.7	127.7	7323.	100.0		IS
2	13.1	64.7	26475.	361.5	$\times 0.272 = 98.$	SS

AREA TABLE ENTRIES: FRN 24997

Entry	Time	Mass	Area	%		IS
1	17.3	83.7	47379.	329.0	$\times 0.328 = 108.$	SS
2	18.5	76.7	14400.	100.0		IS

AREA TABLE ENTRIES: FRN 24997

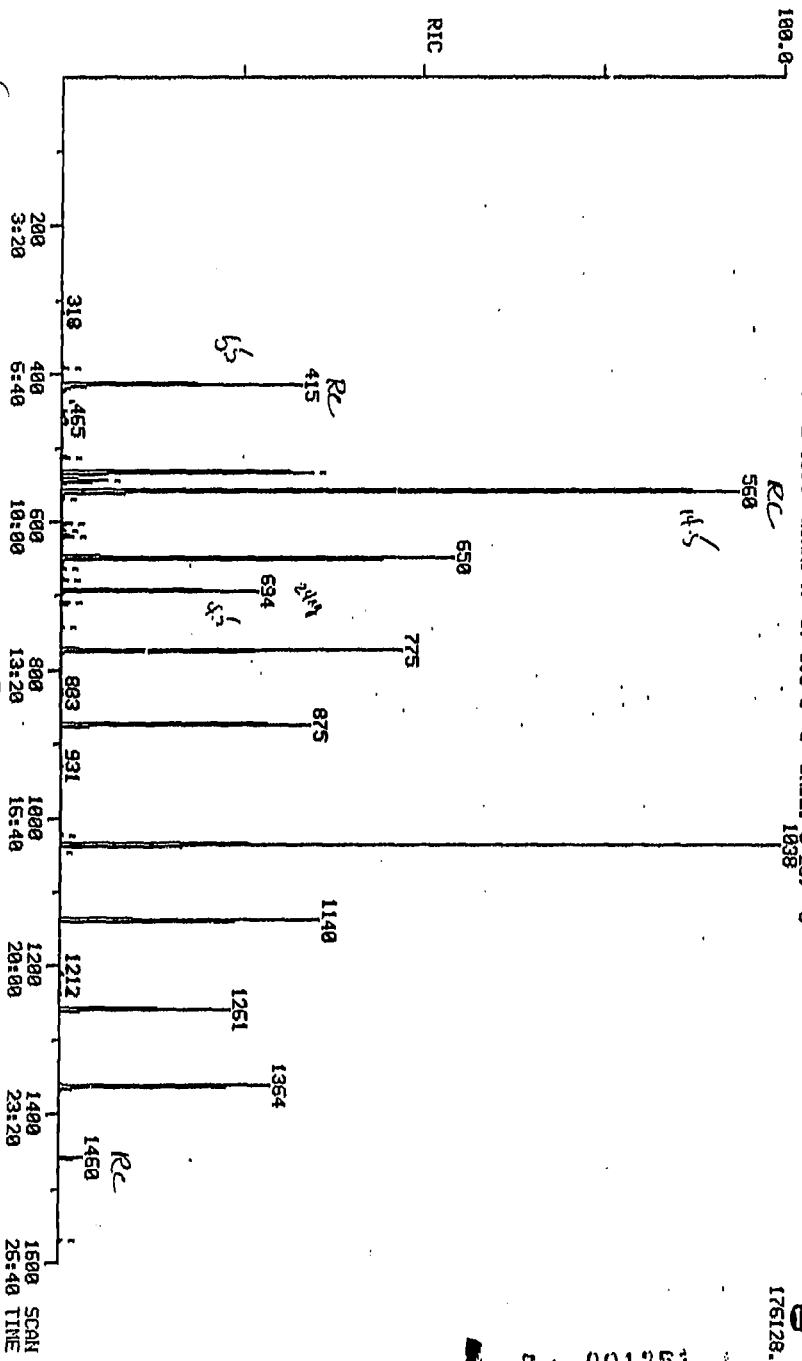
Entry	Time	Mass	Area	%		IS
1	21.7	54.7	16249.	100.0		IS
2	22.7	97.7	38077.	234.3	$\times 0.420 = 98.$	SS
3	30.0	94.7	38775.	238.6	$\times 0.417 = 99.$	SS

CALCULATE % ON ENTRY #1

31 001350\*  
027520



RIC  
 03/08/84 14:05:00  
 SAMPLE: BNR REAGENT BLANK CASE 2427  
 CONDUS.: SPB-S 30MK0.32MMD 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 RANGE: G 1.3200 LABEL: N 2.10.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3  
 DATE: 1222 #1  
 CALI: 1222 #3  
 SCANS 1 TO 1600

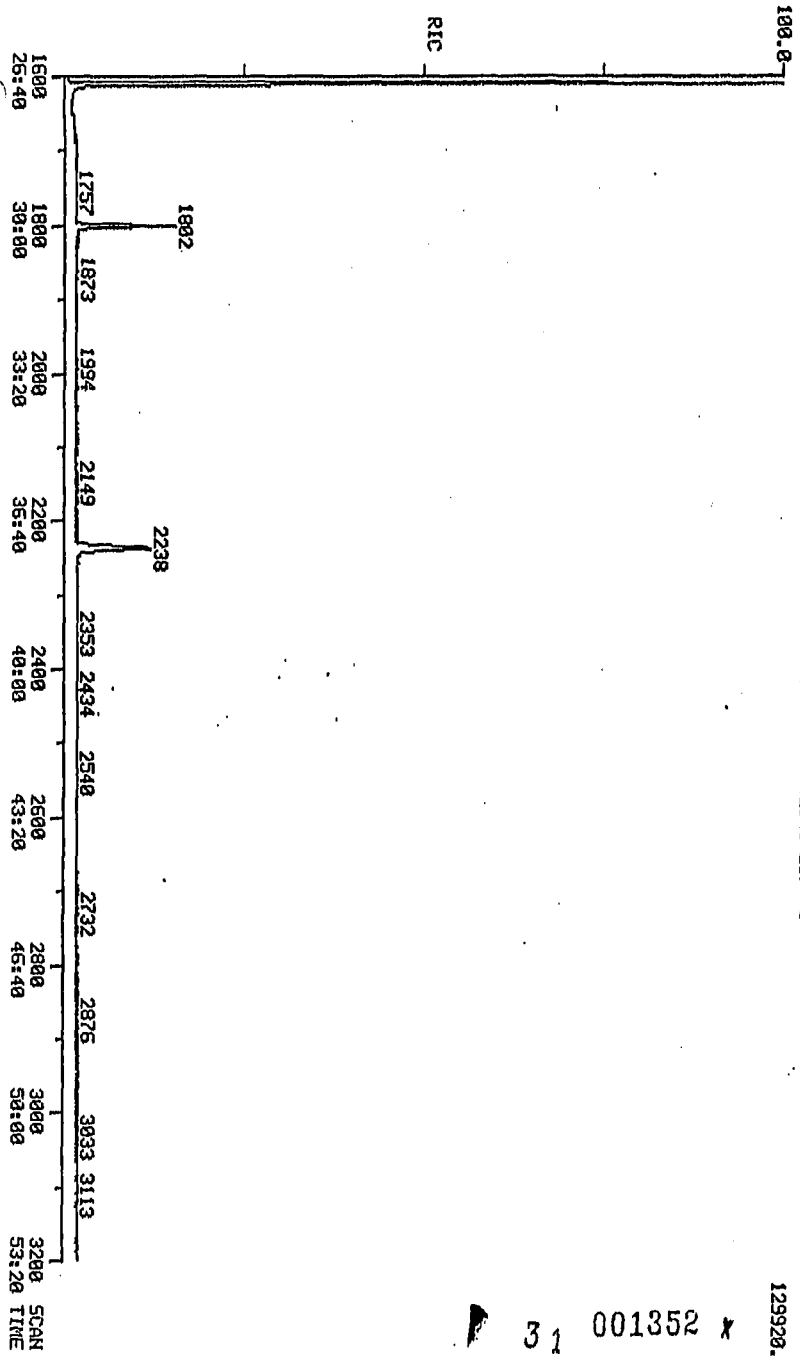


027521  
176128.

31 001351

RIC  
 03/08/84 14:06:00  
 SAMPLE: BRQ REAGENT BLANK CASE 2427  
 COND.S: SPB-5 30KX0.32X110 I.0UMDF 30C/4MIN TO 280C/10C/MIN HOLD 26MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 GRANT: A 0, 1.0 J 0 BRSE: U 20, 3

DATA: 1222 #1  
 CALL: 1222 #3  
 SCANS 1600 TO 3200



125920.

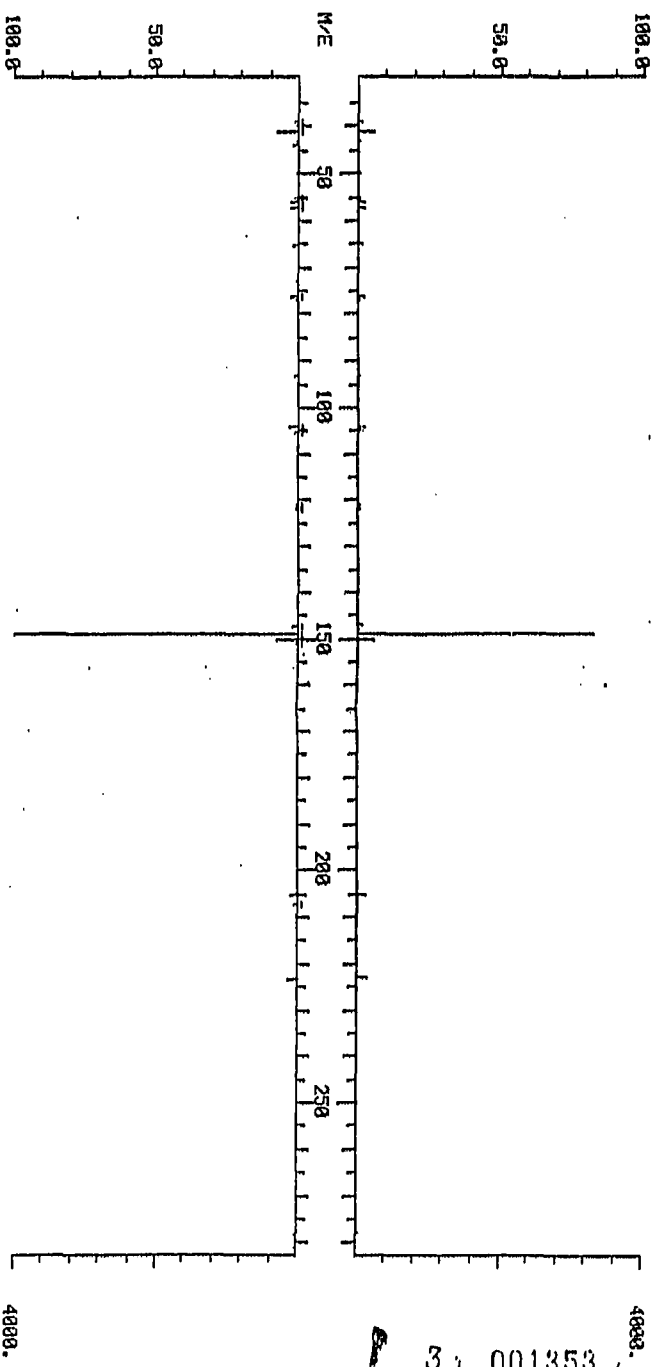
027522

31 001352 x

DI-N-BUTYL PHTHALATE  
DUAL MASS SPECTRUM  
03/08/84 14:06:00 + 24:28  
SAMPLE: BR0 REAGANT BLANK CASE 2427  
CONES.: SP8-5 30MM0.32MMID 1.0UMDF 38C/4MIN TO 280C218C/4MIN HOLD 28MIN  
ENHANCED (S 158 ZN 017)

DATA: 1222 #1458  
CALI: 1222 #3

BASE M/Z: 149/ 149  
RIC: 4831./ 6157.



3 001353

027523

Quantitation Report File: 1222

Date: 1222.T1

03/08/84 14:06:00

Sample: DNA REAGENT BLANK CASE 2427

Submitted by: VERBAR Analyst: SEP

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

1 DETECTED

NO	NAME
1	1,4-DICHLOROBENZENE D4 ***INTERNAL STANDARD#1***
2	N-NITROBODIMETHYLAMINE
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-NITROBODI-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-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	2,4,6-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	DIBENZOPURAN
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

027524

31 001354

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	694	11:34	1	1.000	A BB	16379.	24.000 NG/UL	32.96
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	875	14:35	17	1.000	A BB	63414.	24.000 NG/UL	32.96
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	1140	19:00	30	1.000	A BB	33610.	24.000 NG/UL	32.96
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>1297</del>	<del>20:37</del>	<del>30</del>	<del>1.007</del>	<del>A BB</del>	<del>627. ND</del>	<del>0.871 NG</del>	<del>1.22</del> <i>Not Found</i>

027525

31

001355

Quantitation Report File: 1222

Data: 1222.TI

03/08/84 14:06:00

Sample: BNA REAGENT BLANK CASE 2427

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

027526

31

001356

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	188	1364	22:44	51	1.000	A BV	53638.	24.000 NG/UL	21.66
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	NOT FOUND								
56	NOT FOUND								
57	NOT FOUND								
58	149	1460	24:20	51	1.070	A BB	8689.	3.921 NG	3.54
59	NOT FOUND							* 1.67 = 7	
60	184	1572	26:12	51	1.152	A BB	1244.	10.935 NG	9.87
61	NOT FOUND								
62	240	1802	30:02	62	1.000	A BV	18995.	24.000 NG/UL	21.66
63	NOT FOUND								
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								
67	NOT FOUND								
68	264	2238	37:18	68	1.000	A BB	32038.	48.000 NG/UL	43.31
69	NOT FOUND								
70	NOT FOUND								
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								

027527

31 001357

Quantitation Report File: 1222Q

Data: 1222.TI  
 03/08/84 14:06:00  
 Sample: BNA REAGENT BLANK CASE 2427  
 Submitted by: VERSAR Analyst: SEP

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)\* 1.670  
 Resp. fac. from average of the 1 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	ZTot
1	152	694	11:34	1	1.000	A BB	16379.	40.080 NG/UL	5.42
2	112	535	8:59	1	0.771	A BV	57376.	83.358 NG	11.27
3	99	650	10:50	1	0.937	A BV	74623.	90.665 NG	12.26
4	136	875	14:35	4	1.000	A BB	63414.	40.080 NG/UL	5.42
5	82	775	12:55	4	0.886	A BB	55830.	105.624 NG	14.29
6	164	1140	19:00	6	1.000	A BB	33610.	40.080 NG/UL	5.42
7	172	1038	17:18	6	0.911	A BV	122356.	87.311 NG	11.81
8	188	1364	22:44	8	1.000	A BV	53638.	40.080 NG/UL	5.42
9	330	1260	21:00	8	0.924	A BB	17521.	83.832 NG	11.34
10	240	1802	30:02	10	1.000	A BV	18995.	40.080 NG/UL	5.42
11	244	1611	26:51	10	0.894	A BB	122916.	88.191 NG	11.93

027528

31 001358



Library Search Data: 1222 # 560 Base m/z: 55  
 03/08/84 14:06:00 + 9:20 Cali: 1222 # 3 RIC: 133375.  
 Sample: DNA REAGENT BLANK CASE 2427  
 Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 Enhanced (S 15B 2N 0T)

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

Rank In. Name  
 1 1047 CYCLOHEXANONE  
 2 1069 CYCLOPENTANONE, 2-METHYL-  
 3 1074 CYCLOPENTANONE, 3-METHYL-  
 4 1091 CYCLOBUTANONE, 2-ETHYL-  
 5 111B CYCLOHEPTANE

24 Ng \* 14.5 \* 1.67 = 137<sub>pub</sub>  
 4.5

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C6.H10.O	98	55	954	996	954
2	C6.H10.O	98	42	881	930	894
3	C6.H10.O	98	42	872	938	872
4	C6.H10.O	98	41	839	897	839
5	C7.H14	98	41	828	893	828

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	108-94-1
2	---	---	---	---	1120-72-5
3	---	---	---	---	1757-42-2
4	---	---	---	---	10374-14-8
5	---	---	---	---	291-64-5

Mass	Inten	1	2	3	4	5
27		310	160	294	273	244
28			154	342	157	83
29		123		126	129	172
39	252	244	228	260	264	268
40	63	72		66	60	
41	316	329	481	406	606	496
42	713	772	971	614	471	444
43	117	145	260	76	146	89
51	18					
53	31			42	37	
54	81	108	63			72
55	1000	980	372	567	518	458
56	123	117	145	379	280	477
57	14					100
58			54			
67	8					
68	11					91
69	325	271	448	496	43	241
70	228	173	262	67	386	245
71	16					
79	9					
80	47	58	54		39	
83	85	91	100	45	18	193
97	30					
98	386	353	374	416	366	277
99	24	38	37	19		

027529

31 001359K

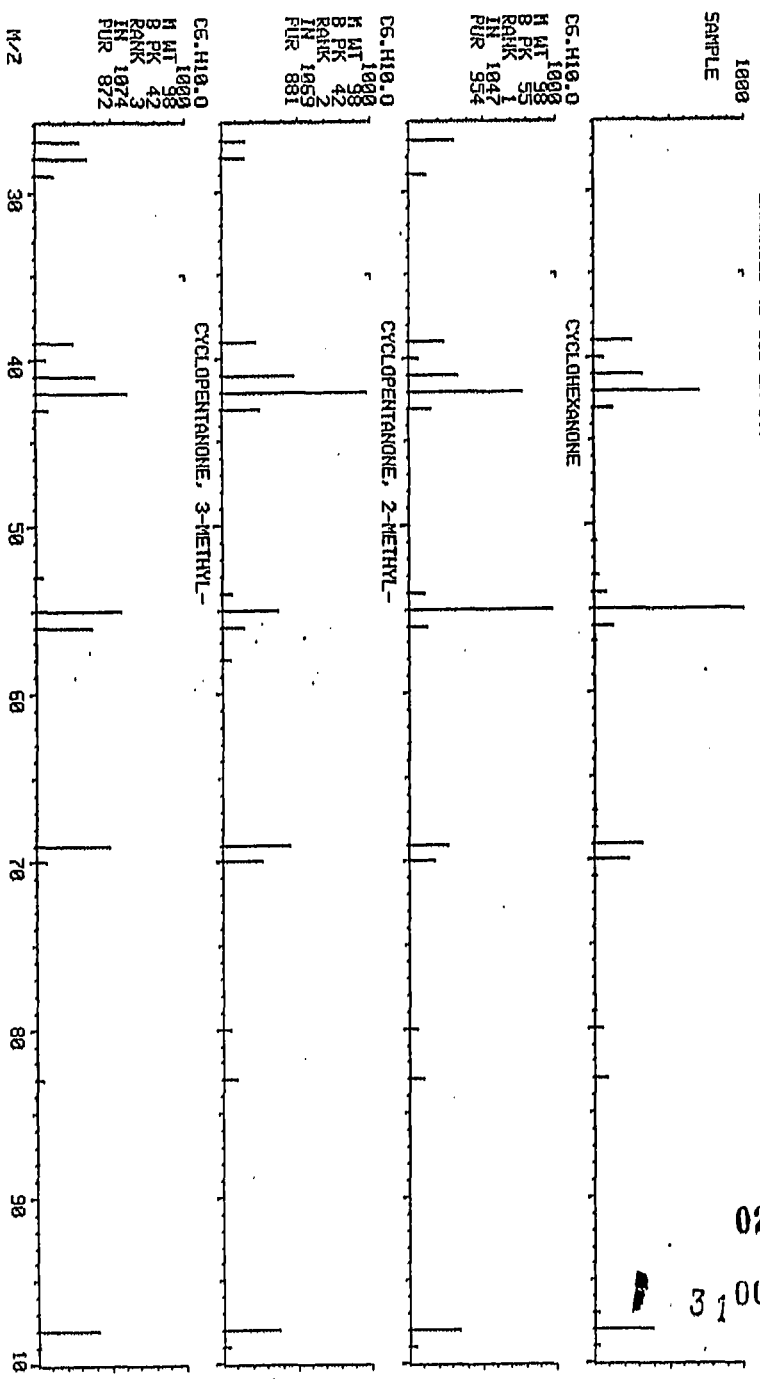
LIBRARY SEARCH  
 03/08/84 14:05:00 + 9:20  
 SAMPLE: BHA REAGENT BLANK CASE 2427  
 COND.S.: SPB-S 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 158 ZN 01)

DATA: 1222 # 568  
 CALL: 1222 # 3

BASE M/Z: 55  
 RIC: 1338

027530

31 001360x



Library Search

Data: 1222 # 415

Base m/z: 73

03/08/84 14:06:00 + 6:55

Call: 1222 # 3

RIC: 39423.

Sample: BNA REAGENT BLANK CASE 2427

Conds.: SPB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 24MIN

Enhanced (S 15B 2N OT)

24N6 \*5.5  $\times$  1.67 = 9.5  $\frac{4.9}{1.7}$

38752 spectra in LIBRARYND searched for maximum PURITY

227 matched at least 6 of the 16 largest peaks in the unknown

Rank In.	Name
1	270 FORMAMIDE, N,N-DIMETHYL-
2	25392 1H-PYRIMIDOC[4,5,6-IJ][2,7]NAPHTHYRIDINE-6-CARBONITRILE, 2-ETHYL-5,8*
3	710 SILANE, TETRAMETHYL-
4	158 ACETIC ACID, LITHIUM SALT
5	2743 GLYCINE, N-METHYL-N-NITROSO-

Rank	Formula	M. Wt	B. Pk	Purity	Fit	RFit
1	C3. H7. O. N	73	73	980	993	980
2	C14. H13. O2. N5	283	73	931	935	989
3	C4. H12. SI	88	73	665	695	745
4	C2. H4. O2. LI	67	73	664	694	750
5	C3. H6. O3. N2	118	42	621	671	744

Rank	Ret. Time	B. P. Int.	US. Par. 1	US. Par. 2	C. A. S. #
1	---	---	---	---	68-12-2
2	---	---	---	---	55044-48-9
3	---	---	---	---	75-76-3
4	---	---	---	---	546-89-4
5	---	---	---	---	13256-22-9

Mass	Inten	1	2	3	4	5
28		189			25	
29		75		85		
30		207				137
31				73		46
38	7					31
39	14		13			57
40	48	18	32			19
41	58	28	41			31
42	354	320	247	15	16	399
43	79	63	76	115	93	215
44	666	767	781	35	41	75
45	17	18	19	37	35	72
51					51	
53				29		
55	2			42		
56	14		15			
57				42		
58	57	46	55	25	35	
59				59		10
60	2				45	15
71				17		
72	87	61	73	38	179	
73	1000	1022	988	1057	914	347
74	35	40	58	35	26	34
75	1					
88				32		
89					54	
118						99
119						8
128						5

31 001261  
027531

107  
204  
205  
282  
283

13  
17

10  
2  
6

1222 #415

31 001362 \*  
027532

LIBRARY SEARCH  
 03/09/84 14:06:00 + 6:55  
 SAMPLE: BRN REAGENT BLANK CASE 2427  
 COND5.: SPB-S 30MK0.32MKID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 158 2N 0T)

DATA: 1222 # 415  
 CALL: 1222 # 3

BASE M/Z: 73  
 RIC: 39423.

1057  
 SAMPLE

C3.H7.O.N

H AT 1057  
 B PK 73  
 IN 270  
 PUR 980

FORMAMIDE, N,N-DIMETHYL-

C14.H13.O2.N5

H AT 1057  
 B PK 73  
 IN 25352  
 PUR 931

1H-PYRIMIDOL[4,5-G]JUZ, 71NAPHTHYRIDINE-6-CARBONITRILE, 2-ETHYL-5,8-DI

C4.H12.51

H AT 1057  
 B PK 73  
 IN 210  
 PUR 663

SILANE, TETRAMETHYL-

M/Z

50

100

150

200

250

31 001363  
 027533

PESTICIDE DATA REGISTRATION FORM

Case # 2427  
 Sample Wt/Vol NA  
 Moisture NA

Sample # Respect Blank  
 Final Vol 10 ml  
 Solid or Liquid L

	Typical RT	Fraction	Dilution	Injection Conc. (µg/ml)	Light Box	Dilution	Run	Injection Conc.	Light Box	Second Column	Light Box	Sample Conc.
α BHC	3.98	1		—								
β BHC	4.49	1		—								
γ BHC	4.67	1		—								
δ BHC	5.24	1		—								
Heptachlor	6.88	1		—								
Aldrin	8.38	1		—								
Heptachlor epoxide	10.57	1		—								
α Endosulfan	13.16	1&2		—								
Dieldrin	15.47	2		—								
p,p'-DDE	15.72	1		—								
Endrin	17.67	2		—								
β Endosulfan	18.77	3		—								
p,p'-DDD	20.74	1		—								
Endrin Aldehyde	21.30	2&3		—								
Endosulfan Sulfate	24.95	3		—								
p,p'-DDT	26.72	1		—								
DGC	47.87	1,2&3		2.713	+							

10970

027534

001864

EDIT AUTO SEQ 3.4  
 PR: AUTO SEQ  
 4 STOP PRGM PRGM N1'  
 ↑ ERROR: "ENTER" KEY EXPECTED

RB-2427W 676  
 Pest Analysis

OP PRGM  
 STOP PROGRAM AT LINE 210

ST: 09:45 MR: 91-1994  
 RT: ATTN = 215

1.34

2.31  
 3.38  
 4.89  
 5.77  
 6.88  
 7.77  
 8.88  
 9.88  
 10.15  
 11.17  
 12.48  
 13.48  
 14.48  
 15.78  
 16.78  
 16.67  
 17.67  
 18.67  
 19.67  
 20.72  
 21.29  
 24.93  
 26.86  
 28.24  
 29.10  
 30.91  
 39.35

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

*Smetoxylchor IS*

39.86

027535

001365

31

42.91  
 43.74  
 45.45

EDIT AUTO SEQ 5\*4

PR: AUTO SEQ

RB-2427 W 6%  
Pest Analysis

PTI 15:41 MAR 9 1964 RT: 2 ATTN = 215

1.34

2.31  
3.77  
4.80  
5.80  
6.80  
7.77  
8.80

REPORT ERROR "ENTER" KEY EXPECTED  
10-15  
REPT ESTD

12.88

14.84

16.76

17.76

19.15

20.70

26.06  
26.51

29.54

30.94

33.49

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

37.28  
36.80  
36.86

*Mett. Oxygelor IS*

39.84

027536

31 001366  
x

48.72

OV: SMART BREDDATA 20-CH-10-1 TIME 2

144

578853



HP 5880A SAMPLER INJECTION @ 15:41 MAR 9, 1984

SAMPLE # : ID CODE :  
1 RB-2427W 6 *Pest*

PESTICIDE MIX CALIBRATION CURVE  
STD

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00		BASELINE @ START RUN = 338.99					
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					
5.23	5.24	23.01	BB	0.066	4	1.925E-03	
5.88		32.13	PB	0.082*		9.638E-04	
7.77		224.81	VP	0.10 *		6.744E-03	
10.16		550.57	BY	0.113*		1.652E-02	
26.06		105.19	BB	*-----*		3.156E-03	
39.84	39.84	16828.40 +	BB	0.235*	17	0.443	METHOXYCHLOR ✓
43.72		98.68	BB	0.294		2.960E-03	
50.00		RP: REJECT + 1E+06					

*Handwritten scribble*

METHOXYCHLOR ✓

MULTIPLIER = 1

CC-CV-11-70-1100-9220-0415

027537

31 001367

145

RB-2427W 15%  
Pest Analysis

21 16:53 MAR 23 1984  
NO. 215 1.29

1.29  
7.77  
8.83  
10.16

15.70  
17.89  
19.88

RUN TIME = 14.31 MIN  
START PROGRAM AT LINE 228

20.69  
21.52

23.78  
24.81

25.87  
27.25

29.11

30.87  
ERROR? INVALID COMMAND

START PROGRAM AT LINE 225

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

38.69

*Methoxychlor IS*

39.87

44.93

46.85

48.76

027538

310013684

BT: START BREAKS AT 20 CHIMAN TIME 2

CGC-9411 ZHUJIE QIN 603

147

JRT: STOP RUN

[hp] 5880A SAMPLER INJECTION @ 16:53 MAR 9, 1984

SAMPLE # : ID CODE

2 RB-2427H 15 *Pest*

ESTICIDE MIX CALIBRATION CURVE

STD

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							
0.00							
0.00							
0.00							
3.50							
5.00							
7.77							
10.16							
26.07							
27.25							
29.11							
30.93							
39.87	39.87	17452.60	BV	0.24	* 17	0.459	METHOXYCHLOR ✓
40.76		27.94	BB			8.381E-04	
50.00							

BASELINE @ START RUN = 334.90

THRESHOLD @ START RUN = -1

PEAK WIDTH @ START RUN = 0.00

RP: REJECT → 1E+06

RP: REJECT → 20

MULTIPLIER = 1

7-CHLOR-1,3-DITHIO-5-CYANOIMIDAZOLE, BUFFALO NEW YORK

CC GC/MS Z7031/RP 0270 0605

148

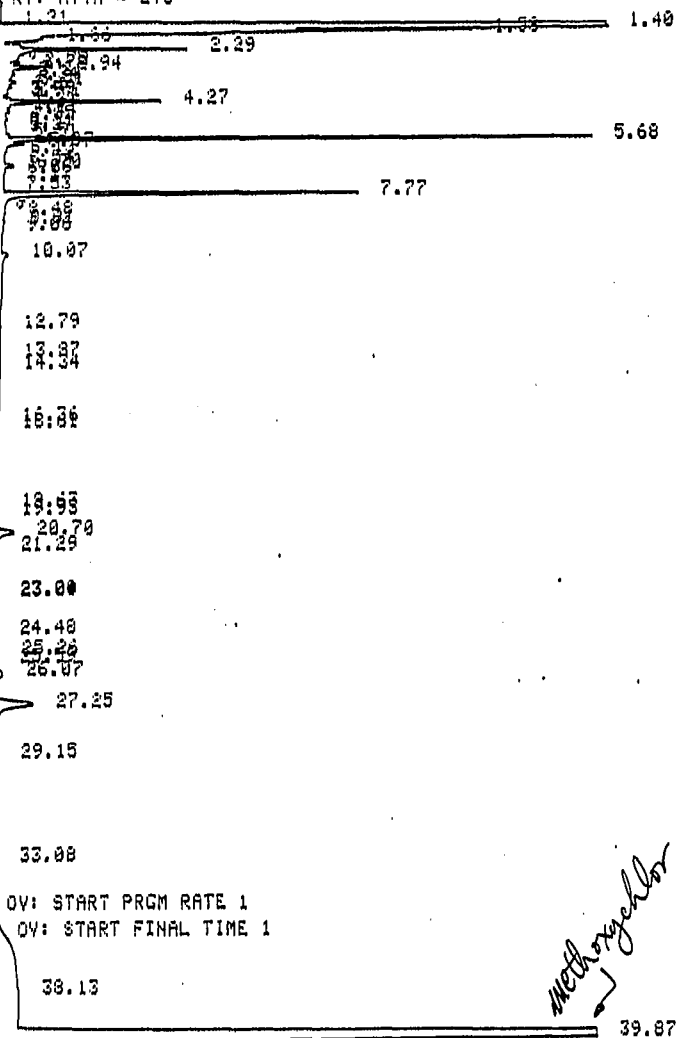
31

027539  
001369 \*

PR: AUTO SEQ  
OVEN TEMP NOT READY

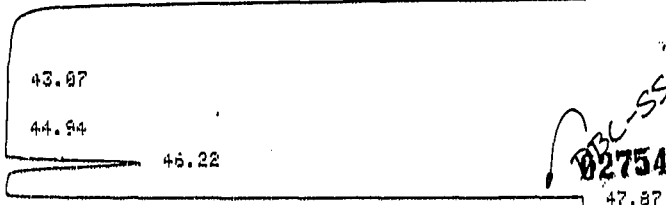
RB-2427 W 50%  
Pest Analysis

RT: 12:05 MAR 9 1984  
RT: ATTN = 215



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

*Methoxychlor IS*



*BBC-55  
027540*

48.76  
RT: SMART BREAK RATE 18 CM MIN TIME 2 31 001370

149

[HP] 5380A SAMPLER INJECTION @ 18:05 MAR 9, 1984

SAMPLE # : ID CODE :  
3 RB-24274 50

*Pest*

PESTICIDE MIX CALIBRATION CURVE  
STD

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00		BASELINE @ START RUN = 331.73					
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					
3.51		51.93	VV	-----*		1.558E-03	
3.67		48.38	VV	-----		1.211E-03	
4.14		38.71	PV	*-----		1.161E-03	
4.27		471.02	VV	0.068		1.413E-02	
4.44		29.42	VV	-----		8.825E-04	
4.61		42.05	VV	-----		1.262E-03	
4.85		28.53	VP	-----*		8.560E-04	
5.51		21.21	BV	*-----		6.364E-04	
5.69		1681.91	VV	0.066		5.046E-02	
5.87		82.26	VV	-----		2.468E-03	
6.70		43.66	VV	0.104		1.310E-03	
7.77		1512.20	BV	0.10 *		4.537E-02	
8.81		22.56	BV	-----		6.769E-04	
10.07		34.69	BB	-----*		1.041E-03	
20.70	20.76	131.38	BB	0.186	13	1.648E-02	
26.07		86.06	BB	-----*		2.582E-03	
27.25		432.76	BB	0.269*		1.298E-02	
29.15		25.22	BB	/SYM		7.566E-04	
39.87	39.87	22288.30 *	BB	0.24 *	17	0.586	METHOXYCHLOR ✓
46.22		1667.69	BB	0.285*		5.863E-02	
47.87	47.92	36530.70	BV	0.283	18	2.713	DIBUTYLCHLOR ✓
48.76		572.97	VB	-----*		1.719E-02	
50.00		RP: REJECT → 1E+06					

*PP-500 WTD*

METHOXYCHLOR ✓  
DIBUTYLCHLOR ✓

MULTIPLIER = 1

001371 X

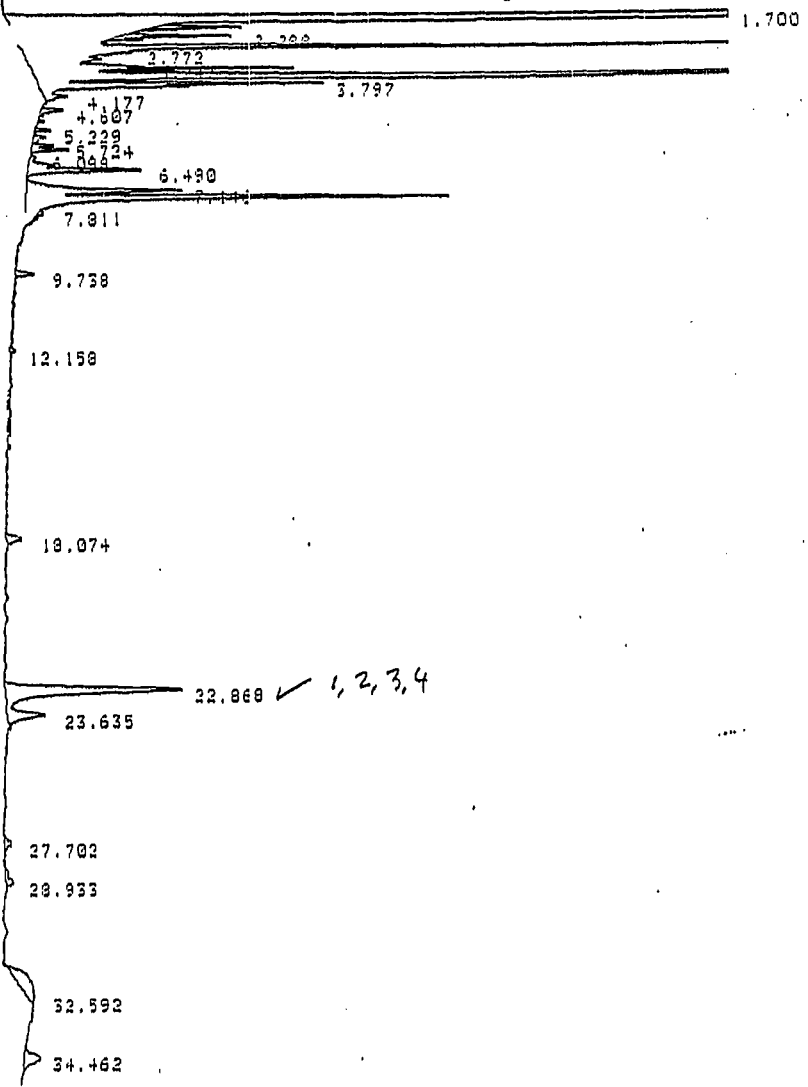
31

027541

CG-CGWA/4/20/1984

Beagant Blank  
TLDP  
Case 2427

CH T SPEED 0.6 CM/MIN  
RT 1 6+ ZERO: 5%



31 001372

027542

TITLE: CMSE 2427 TCDD

14:47 13 MAR 84

CHANNEL NO: 1

SAMPLE: RB-2427W

METHOD: TCDD

PEAK NO	PEAK NAME	RESULT	TIME (MIN)	AREA COUNTS	SEP CODE
		70.52	1.700	5981460	BV
		0.36	2.014	30494	T
		0.40	2.268	34268	T
		0.11	2.362	9529	T
4		3.78	2.650	320906	VV
5		0.87	2.772	73976	VV
6		0.70	3.012	59640	VV
7		0.74	3.247	62699	VV
8		1.00	3.314	84677	VV
9		8.28	3.542	702455	VV
10		1.29	3.757	109211	VV
11		0.65	3.877	55349	VV
12		0.14	4.177	11540	VV
13		0.02	4.246	3043	VB
14		0.13	4.607	11220	BV
15		0.02	4.947	1556	BB
16		0.07	5.229	5761	BV
17		0.06	5.448	5192	VV
18		0.03	5.527	2504	VV
19		0.11	5.724	9303	VV
20		0.17	5.854	14761	VV
21		0.04	6.058	3487	VV
22		0.17	6.329	14103	VV
23		0.79	6.490	67004	VV
24		1.43	7.146	121517	VV
25		3.58	7.350	303992	VV
26		0.02	7.811	1277	T
27		0.03	7.843	3578	T
28		0.04	8.007	3754	T
29		0.12	9.728	10258	BB
30		0.03	12.158	2936	BB
31		0.14	18.074	11982	BB
32		2.49	22.868	211066	BV
33		0.49	23.625	41221	VB
34		0.10	27.702	8687	BV
35		0.10	28.923	8697	VB
36		0.61	32.562	52118	BB
37		0.34	34.462	29003	BB

TOTALS: 99.97 8482230

MULTIPLIER: 1.00000

RACK: 1 VIAL: 1 INJ: 1

ERRORS:  
ADC OVERANGE

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

027543

001373

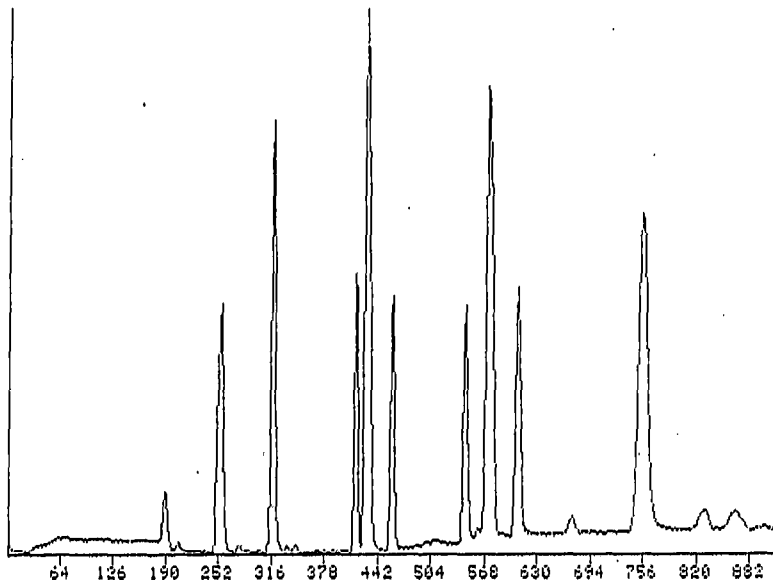
31

NAME: VOA MATRIX SPIKE 5812D SML R3572 CASE 2427  
 MISC: 24988 33 10019 824 1458 2/21/84 MB/PM

FRN 24988

27258

TI



AREA TABLE ENTRIES: FRN 24988

Entry	Time	Mass	Area	%	X.R.F. = conc. (mg/L)	% Recovery
1	10.7	127.7	7276.	100.0		
2	13.0	64.7	26648.	366.2	$366.2 \times 0.298 = 109.$	IS SS
3	8.1	48.7	2647.	36.4		METHYLENE CHLORIDE
4	10.5	95.7	5062.	69.6	$69.6 \times 0.421 = 29.$	$\frac{29}{29} \times 100 = 100\%$ 1,1-dichloroethane

CALCULATE % ON ENTRY #:

AREA TABLE ENTRIES: FRN 24988

Entry	Time	Mass	Area	%	
1	16.4	76.7	13531.	100.0	
2	17.2	89.7	43977.	325.0	$325.0 \times 0.308 = 100.$
3	17.3	77.7	24068.	177.9	$177.9 \times 0.262 = 47.$
4	16.8	129.7	8806.	65.1	$65.1 \times 0.738 = 48.$

CALCULATE % ON ENTRY #:

AREA TABLE ENTRIES: FRN 24988

Entry	Time	Mass	Area	%	
1	21.7	54.7	16114.	100.0	
2	22.7	97.7	32693.	202.9	$202.9 \times 0.434 = 88.$
3	22.9	91.7	16087.	99.0	$99.0 \times 0.501 = 50$
4	30.0	94.7	33883.	210.3	$210.3 \times 0.422 = 89.$
5	26.7	105.7	399.	2.5	
6	32.0	105.7	1602.	9.9	
7	34.2	105.7	1753.	10.9	
8	24.1	111.7	19584.	121.5	$121.5 \times 0.368 = 45$

CALCULATE % ON ENTRY #:

IS  
SS  
benzene  
trichloroethane  
toluene  
chlorobenzene

001374 027544

3

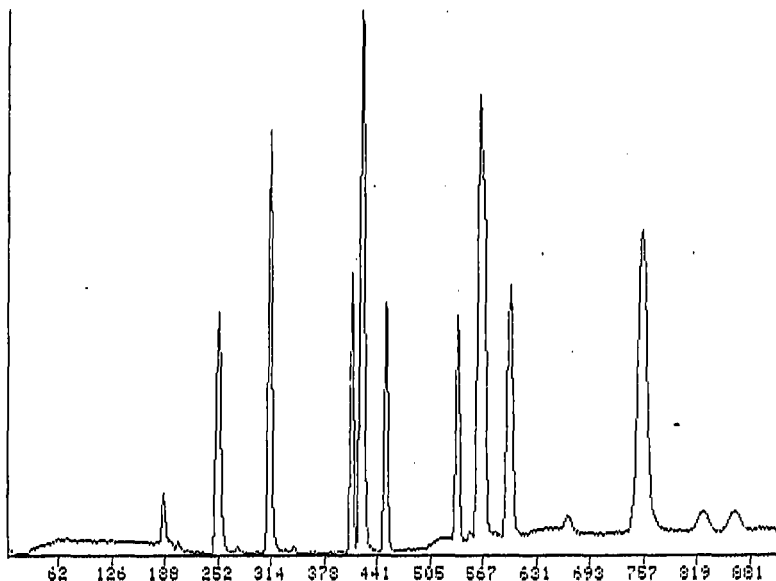


NAME: VOA MATRIX SPIKE DUPLICATE 5812D 5ML R3572 CASE 2427  
 MISC: 24989 33 10019 824 1545 2/21/84 MB/PM

FRN 24989

27258

TI



AREA TABLE ENTRIES: FRN 24989

Entry	Time	Mass	Area	% R.F. = $\frac{unc. (MS/L)}{\% Recovery}$
1	10.7	127.7	7257.	100.0
2	12.9	64.7	26178.	$360.7 \times 0.298 = 107.$
3	8.1	48.7	2690.	37.1
4	10.5	95.7	5201.	$71.7 \times 0.421 = 30. \quad \frac{32}{29} \times 100 = 103\%$

CALCULATE % ON ENTRY #1

AREA TABLE ENTRIES: FRN 24989

Entry	Time	Mass	Area	%
1	18.3	76.7	13371.	100.0
2	17.2	83.7	39832.	$297.9 \times 0.308 = 92.$
3	22.7	77.7	19596.	$146.1 \times 0.262 = 38 \quad \frac{38}{38} \times 100 = 100\%$
4	16.7	129.7	8843.	$66.1 \times 0.738 = 49 \quad \frac{49}{41} \times 100 = 120\%$

CALCULATE % ON ENTRY #1

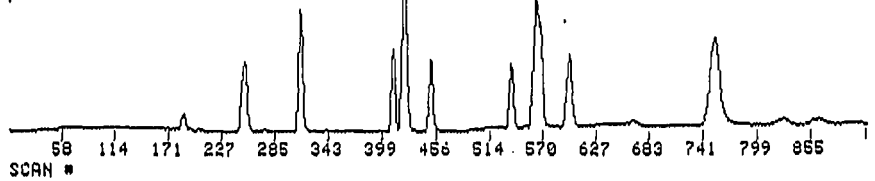
AREA TABLE ENTRIES: FRN 24989

Entry	Time	Mass	Area	%
1	21.6	54.7	15687.	100.0
2	22.6	97.7	31554.	$201.1 \times 0.434 = 87.$
3	22.7	91.7	15955.	$101.7 \times 0.501 = 51 \quad \frac{51-8}{43} = \frac{43}{43} \times 100 = 100\%$
4	29.9	94.7	32908.	$209.8 \times 0.422 = 89.$
5	26.6	105.7	507.	3.2
6	32.7	105.7	1598.	10.2
7	34.1	105.7	1791.	11.4
8	23.9	111.7	19804.	$126.8 \times 0.368 = 47 \quad \frac{47}{44} \times 100 = 107\%$

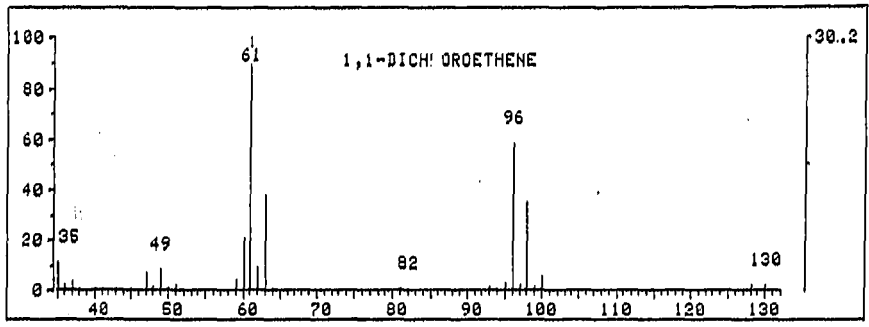
CALCULATE % ON ENTRY #1

3 1001375  
027545

VOA MATRIX SPIKE DUPLICATE 5812D 5ML R3572 CASE 2427 FRN 24989, CRN 33  
24989 33 10019 824 1546 2/21/84 MB/PM 914 SCANS ( 914 SCANS, 35.10 MINS)  
\* 1.0 MASS RANGE: 33.0, 209.1 TOTAL ABUND= 1693159.

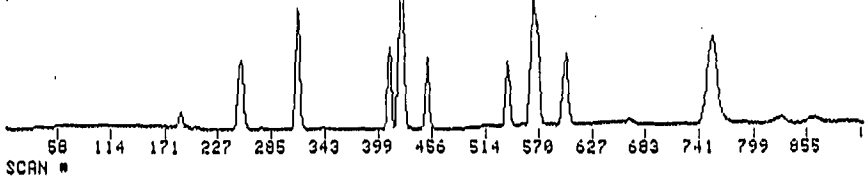


AVERAGED SPECTRUM \* BASE PK/ABUND: 61.1/ 32000. + 249 -239

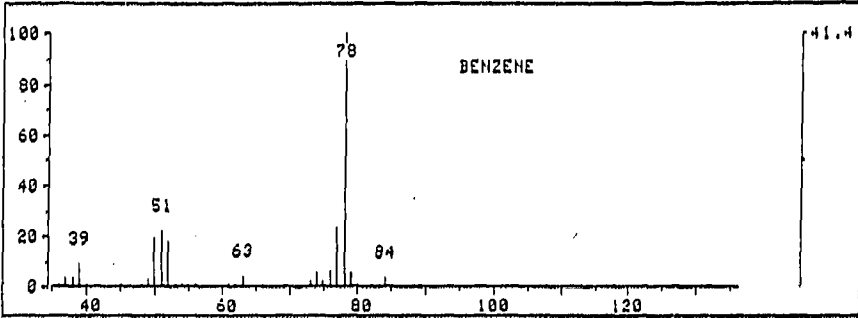


31 001376  
027546

VOA MATRIX SPIKE DUPLICATE S812D SML R3572 CASE 2427 FRN 24989, CRN 33  
24989 33 18019 824 1545 2/21/84 MD/PM 914 SCANS 1 914 SCANS, 35.10 MINS)  
p x 1.0 MASS RANGE: 33.0, 209.1 TOTAL ABUND= 1693159.



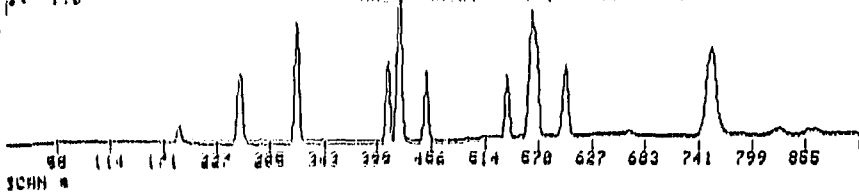
AVERAGED SPECTRUM + BASE PK/ABUND: 78.1 / 32000, + 425 -417



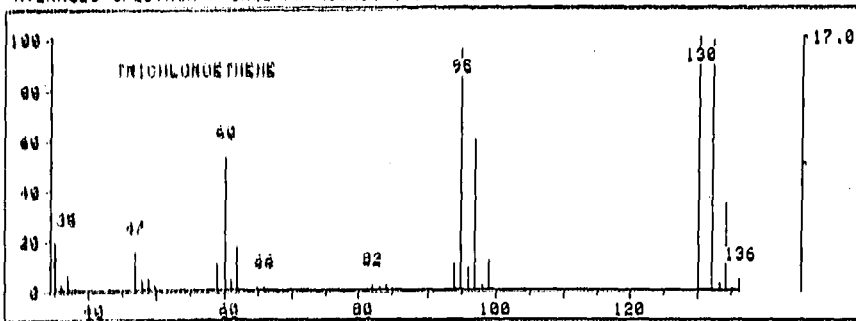
31 001377

027547

VOM MATRIN SPINE DUPLICHTE 40120 GML 81673 CASE 2427 **FRID** 24989, **GRM** 33  
 34989 33 10014 024 1514 2 21794 NR/FM 914 SCANS / 914 SCANS, 35.10 MINS)  
 1.0 MASS RANGE: 33.0, 209.1 TOTAL ABUND\* 1693159.

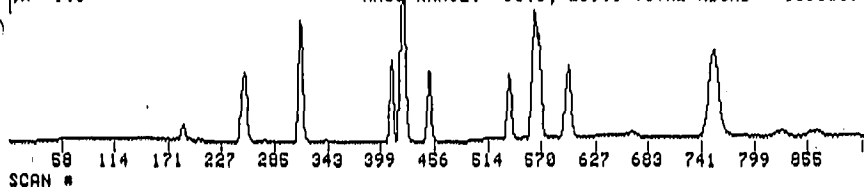


AVERAGED SPECTRUM • BASE PK/ABUND: 130.0/ 32000. + 410 -395

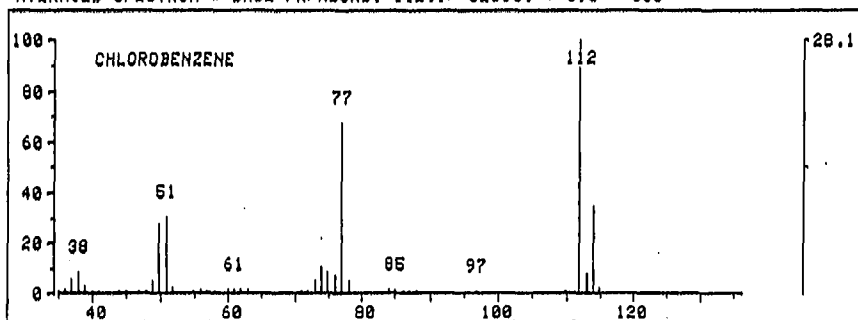


31001378X  
 027548

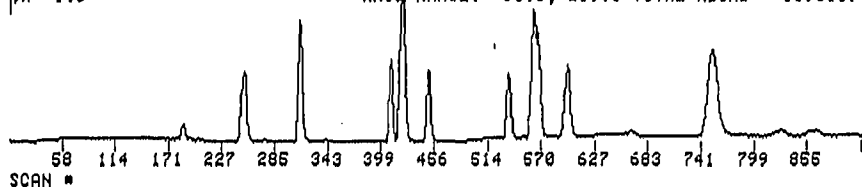
VOA MATRIX SPIKE DUPLICATE 6812D 5ML R3572 CASE 2427 FRN 24989, CRN 33  
24989 33 10019 824 1545 2/21/84 MB/PM 914 SCANS ( 914 SCANS, 35.10 MINS)  
PX 1.0 MASS RANGE: 33.0, 209.1 TOTAL ABUND= 1693159.



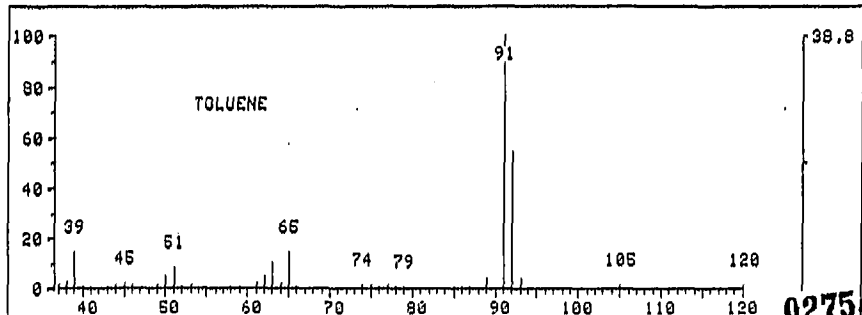
AVERAGED SPECTRUM \* BASE PK/ABUND: 112.1/ 32000. + 598 -563



VOA MATRIX SPIKE DUPLICATE 6812D 5ML R3572 CASE 2427 FRN 24989, CRN 33  
24989 33 10019 824 1545 2/21/84 MB/PM 914 SCANS ( 914 SCANS, 35.10 MINS)  
PX 1.0 MASS RANGE: 33.0, 209.1 TOTAL ABUND= 1693159.



AVERAGED SPECTRUM \* BASE PK/ABUND: 91.1/ 32000. + 570 -557

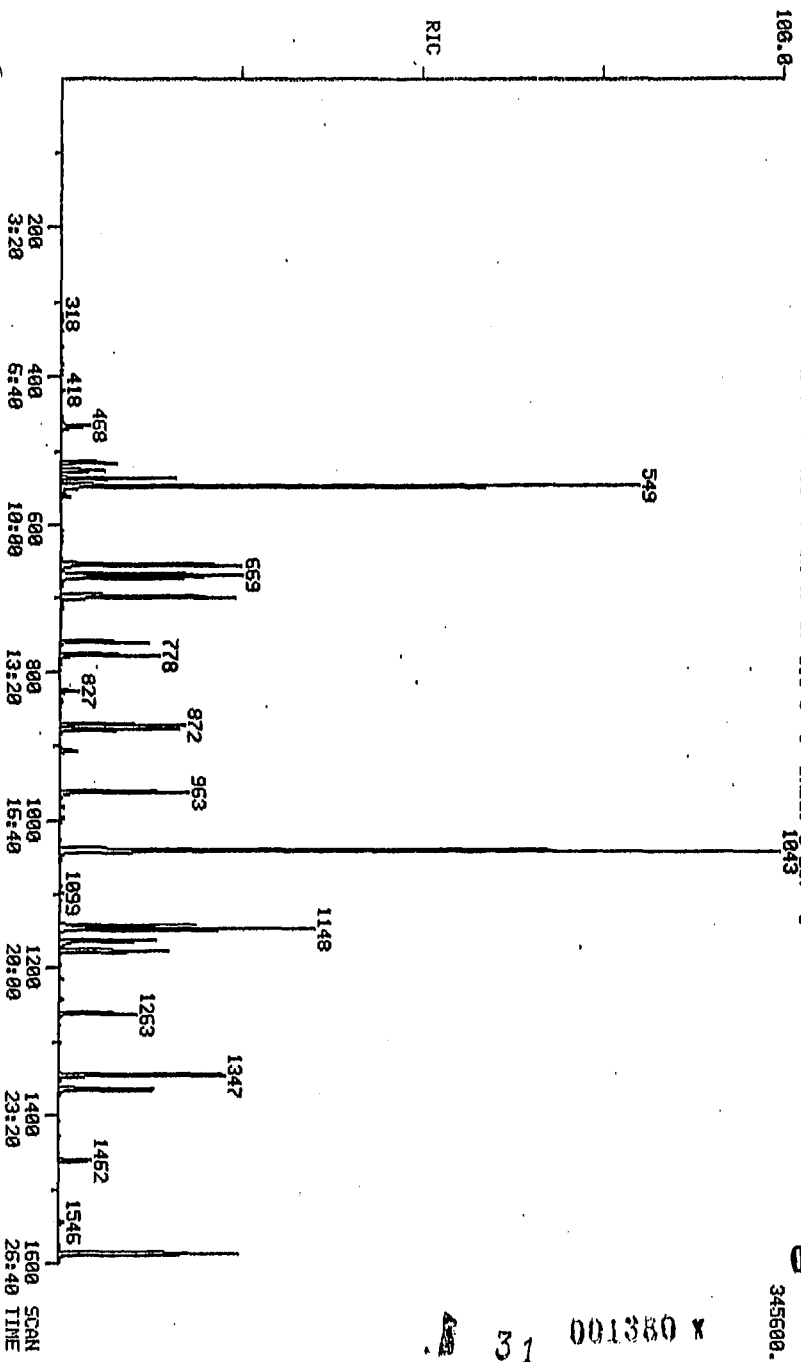


027549

3 001379

RIC  
 03/14/84 14:15:00  
 SAMPLE: BNA RESTRIKS CASE 2427 2.4UL 1/2 DILUTION SEP  
 CONDUS.: SP8-5 30MMS. 32MMID 1.6UMDF 30C/4MIN TO 280C210C/MIN HOLD 26MIN  
 RANGE: G 1.3100 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3  
 1843

DATA: 1270 #758  
 CALL: 1270 #3  
 SCANS 1 TO 1500

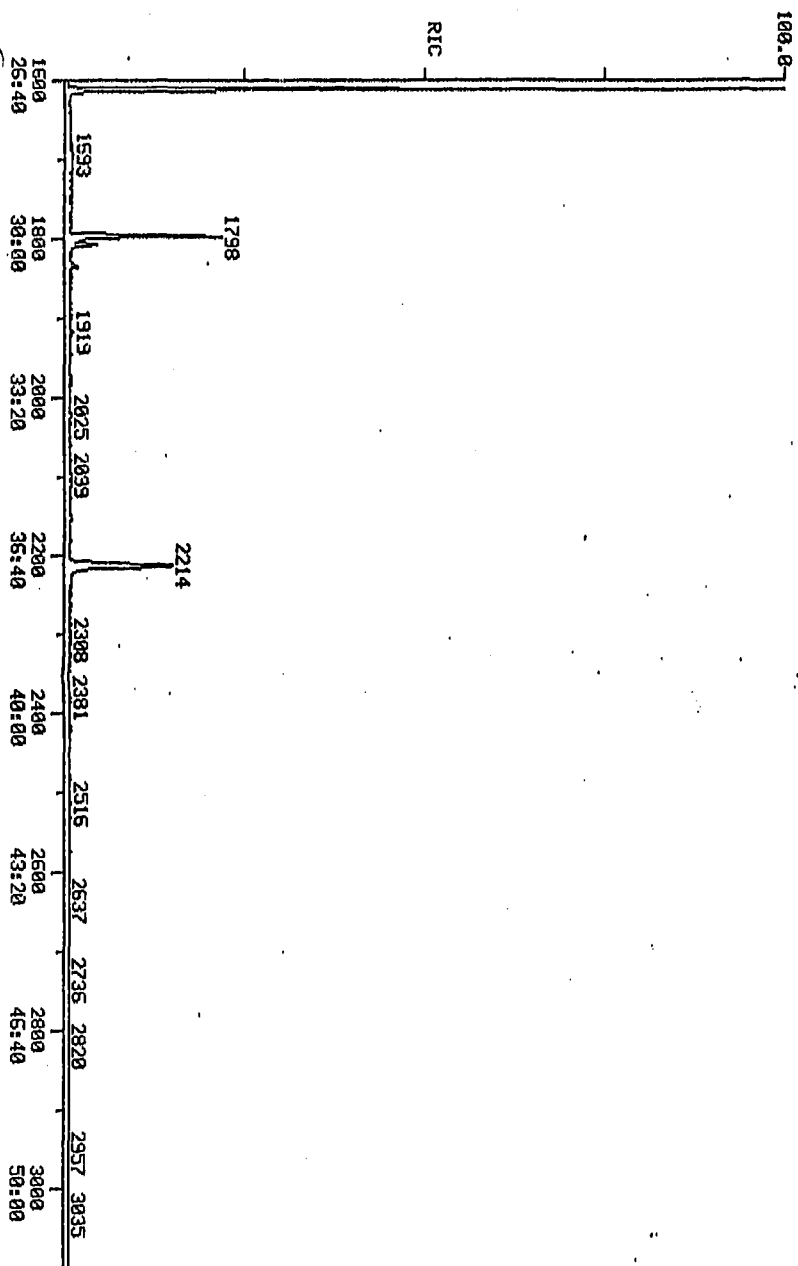


027550

345600.

31 001380 \*

RIC  
 03/14/84 14:15:00 DATA: 1270 #760 SCANS 1600 TO 3100  
 SAMPLE: BNA R3571MS CASE 2427 2.4UL 1/2 DILUTION #3 CALL: 1270 #3  
 COND.: SP-5 30MM\*0.32MMID 1.0UMDF 300/4MIN TO 280C/10C/MIN HOLD 25MIN  
 RANGE: G 1.3100 LABEL: N 0, 4.0 QURN: A 0, 1.0 J 0 BASE: U 20, 3



SCAN TIME

31 001381 \* 93507 7551

Quantitation Report File: 1270

Data: 1270.TI

03/14/84 14:16:00

Sample: BNA R3571MS CASE 2427 2.4UL 1/2 DILUTION SEP RERUN

Submitted by: VERSAR Analyst: SEP

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)\* 1.670

Resp. fac. from average of whole .RL

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-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-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

027552

001382

31



027553

1270

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	ZTot
1	152	697	11:37	1	1.000	A BB	16212.	40.080 NG/UL	4.80
2	NOT FOUND								
3	NOT FOUND								
4	128	673	11:13	1	0.966	A BV	45964.	67.363 NG	8.31
5	94	656	10:56	1	0.941	A BV	48270.	56.654 NG	6.79
6	NOT FOUND								
7	146	700	11:40	1	1.004	A BB	45210. <i>ND</i>	64.337 NG	7.71 <i>sep</i>
8	148	700	11:40	1	1.004	A BB	28749.	57.863 NG	7.18
9	NOT FOUND								
10	NOT FOUND								
11	NOT FOUND								
12	NOT FOUND								
13	NOT FOUND								
14	NOT FOUND								
15	43	760	12:40	1	1.090	A BV	19387.	45.068 NG	5.40
16	NOT FOUND								
17	136	878	14:38	17	1.000	A BB	66350.	40.080 NG/UL	4.80
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	180	872	14:32	17	0.993	A BB	30504.	51.575 NG	6.18
24	NOT FOUND								
25	105	839	13:59	17	0.956	A BB	680. <i>ND</i>	2.239 NG	0.27 <i>sep</i>
26	NOT FOUND								
27	NOT FOUND								
28	107	963	16:03	17	1.097	A BB	28898.	61.583 NG	7.38
29	NOT FOUND								
30	164	1143	19:03	30	1.000	A BB	35539.	40.080 NG/UL	4.80
31	NOT FOUND								
32	NOT FOUND								
33	NOT FOUND								
34	NOT FOUND								
35	NOT FOUND								
36	NOT FOUND								
37	163	1108	18:28	30	0.967	A BB	598. <i>ND</i>	0.437 NG	0.05 <i>sep</i>
38	NOT FOUND								
39	153	1148	19:08	30	1.004	A BV	69652.	76.871 NG	9.21
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	65	1163	19:23	30	1.017	A BV	21771.	135.977 NG	16.30
44	165	1177	19:37	30	1.030	A BB	28515.	87.903 NG	10.54
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	167	1243	20:43	30	1.087	A BB	700. <i>ND</i>	2.256 NG	0.27 <i>sep</i>

31 884388 X

1270

Quantitation Report File: 1270

Data: 1270.TI  
03/14/84 14:16:00  
Sample: BNA R3571MS CASE 2427 2.4UL 1/2 DILUTION SEP  
Submitted by: VERSAR Analyst: SEP

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

- NO NAME
- 51 PHENANTHRENE D10 \*\*\*INTERNAL STANDARD#4\*\*\*
- 52 1,2-DIPHENYLHYDRAZINE
- 53 4-BROMOPHENYLPHENYLETHER
- 54 HEXACHLOROBBENZENE
- 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(GH)PERYLENE

027555

31 001384

1270

Quantitation Report File: 1270

Data: 1270.TI  
03/14/84 14:16:00  
Sample: BNA R3971MS CASE 2427 2.4UL 1/2 DILUTION SEP  
Submitted by: VERSAR Analyst: SEP

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

- 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(GH)PERYLENE

027556

31 001384

1270

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	188	1366	22:46	51	1.000	A BB	56369.	40.080 NG/UL	9.45
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	266	1346	22:26	51	0.985	A BB	33873.	163.765 NG	38.62
56	NOT FOUND								
57	NOT FOUND								
58	149	1462	24:22	51	1.070	A BV	23574.	16.533 NG	3.92
59	NOT FOUND								
60	NOT FOUND								
61	202	1589	26:29	51	1.163	A BB	100086.	76.671 NG	18.08
62	240	1798	29:58	62	1.000	A BB	22473.	40.080 NG/UL	9.45
63	NOT FOUND								
<del>64</del>	<del>228</del>	<del>1802</del>	<del>30:02</del>	<del>62</del>	<del>1.002</del>	<del>A VB</del>	<del>732.</del>	<del>0.808 NG</del>	<del>0.19</del>
<del>65</del>	<del>228</del>	<del>1802</del>	<del>30:02</del>	<del>62</del>	<del>1.002</del>	<del>A VB</del>	<del>732.</del>	<del>0.766 NG</del>	<del>0.18</del>
66	NOT FOUND								
<del>67</del>	<del>149</del>	<del>1809</del>	<del>30:09</del>	<del>62</del>	<del>1.006</del>	<del>A BB</del>	<del>3768.</del>	<del>5.143 NG</del>	<del>1.21</del>
68	264	2214	36:54	68	1.000	A BB	26876.	80.160 NG/UL	18.90
69	NOT FOUND								
70	NOT FOUND								
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								

027557

31 001385

TCA FINISHED, 10 FOUND  
FINISHED AT: 3/14/84 15:14:59  
Quantitation Report File: 1270

RE RUN

Data: 1270.TI  
03/14/84 14:16:00  
Sample: BNA R3571MS CASE 2427 2.4UL 1/2 DILUTION SEP  
Submitted by: VERSAR Analyst: SEP

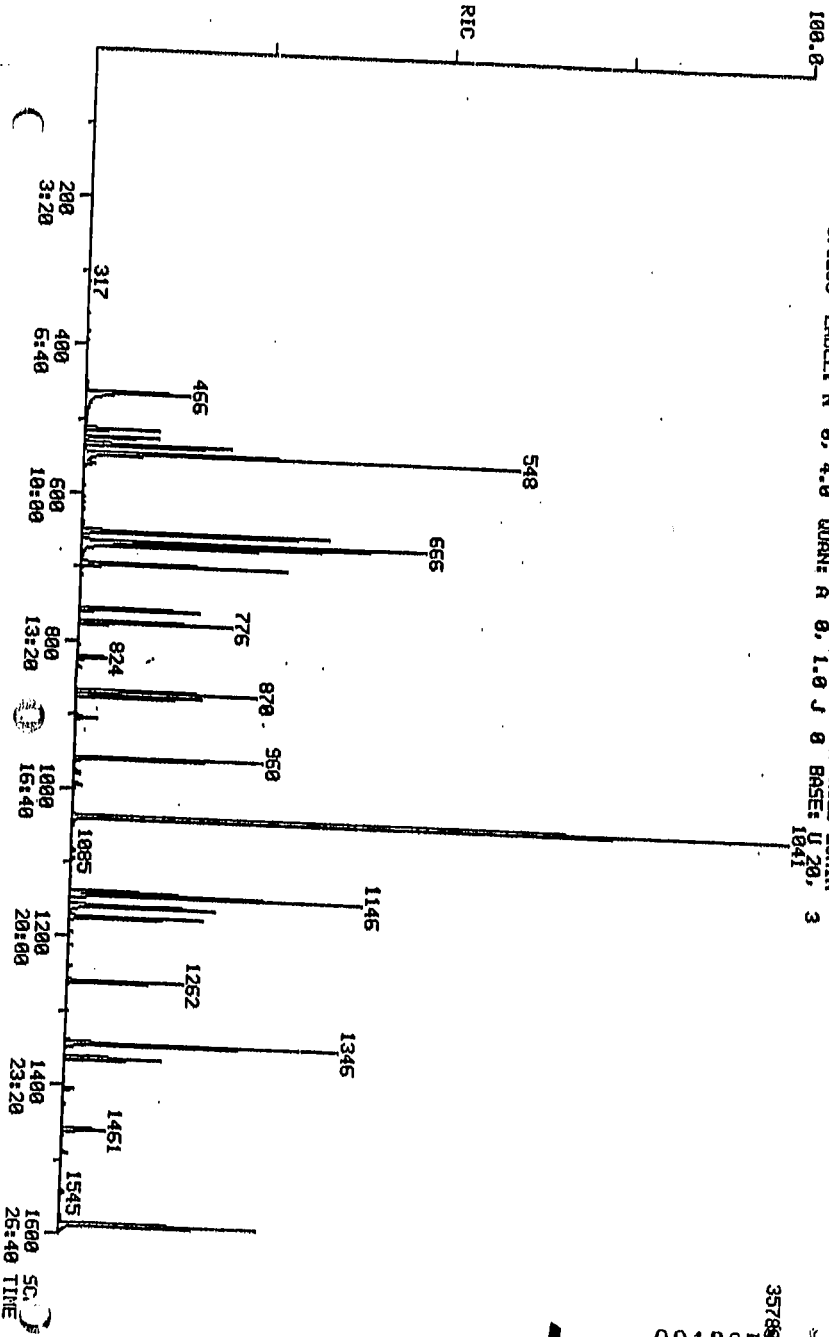
AMOUNT=AREA \* REF.AMNT/(REF.AREA)\* RESP.FACT)\* 1.670  
Resp. fac. from Library Entry

- 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	0.772	A BB	39882.	77.664 NG	11.76
2	98	655	10:55	3	0.940	A BV	45593.	67.423 NG	10.21
3	192	697	11:37	3	1.000	A BB	16212.	40.080 NG/UL	6.07
4	82	778	12:58	5	0.886	A BB	36981.	70.873 NG	10.73
5	136	878	14:38	5	1.000	A BB	66350.	40.080 NG/UL	6.07
6	172	1041	17:21	7	0.911	A BB	88794.	76.129 NG	11.53
7	164	1143	19:03	7	1.000	A BB	35539.	40.080 NG/UL	6.07
8	330	1263	21:03	9	0.925	A BB	14101.	77.663 NG	11.76
9	188	1366	22:46	9	1.000	A BB	56369.	40.080 NG/UL	6.07
10	244	1613	26:53	11	0.897	A BB	93617.	90.376 NG	13.68
11	240	1798	29:58	11	1.000	A BB	22473.	40.080 NG/UL	6.07

31 004286\*  
027558

RIC  
 03/08/84 18:19:00  
 SAMPLE: BNA SAMPLE R357115 CASE 2427 GC 1.21L  
 COND.: SPB-S 30M\*0.32MMID 1.0UMDF 38C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUAN: R 0, 1.0 J 0 BASE: U 20, 1041  
 DATA: 1225 #1  
 CELL: 1226 #3  
 SCANS 1 TO 1600



31 001387  
 357898  
 027559

TGA FINISHED, 24 FOUND  
FINISHED AT: 3/08/84 20:02:05  
Quantitation Report File: 1225

Data: 1225.TI  
03/08/84 18:19:00  
Sample: BNA SAMPLE R3571MS CASE 2427 GC 1.2UL  
Submitted by: VERBAR Analyst: SEP

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)\* 1.670  
Resp. fac. from linear fit to whole .RL

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	HEXACHLORO BUTADIENE
28	4-CHLORO-M-CRESOL
29	2-METHYLNAPHTHALENE
30	ACENAPHTHENE D10 ***INTERNAL STANDARD#3***
31	HEXACHLORO CYCLOPENTADIENE
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

3 001389 \*

027560



1225

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	695	11:35	1	1.000	A BB	16297.	40.080 NG/UL	3.79
2		NOT FOUND							
3		NOT FOUND							
4	128	671	11:11	1	0.965	A BB	68095.	98.476 NG	9.31
5	94	654	10:54	1	0.941	A BV	71669.	78.572 NG	7.43
6		NOT FOUND							
7	146	698	11:38	1	1.004	A BB	59339.	79.243 NG	7.49
8	148	698	11:38	1	1.004	A BB	36916.	73.581 NG	6.95
9		NOT FOUND							
10		NOT FOUND							
11		NOT FOUND							
12		NOT FOUND							
13		NOT FOUND							
14		NOT FOUND							
15	43	758	12:38	1	1.091	A BV	24516.	54.196 NG	5.12
16		NOT FOUND							
17	136	876	14:36	17	1.000	A BB	63322.	40.080 NG/UL	3.79
18		NOT FOUND							
19		NOT FOUND							
20		NOT FOUND							
21		NOT FOUND							
22		NOT FOUND							
23	180	870	14:30	17	0.993	A BB	39329.	68.281 NG	6.45
24		NOT FOUND							
25	105	837	13:57	17	0.955	A BB	1334.	7.811 NG	0.74
26		NOT FOUND							
27		NOT FOUND							
28	107	960	16:00	17	1.096	A BV	36916.	81.861 NG	7.74
29		NOT FOUND							
30	164	1141	19:01	30	1.000	A BB	32118.	40.080 NG/UL	3.79
31		NOT FOUND							
32		NOT FOUND							
33		NOT FOUND							
34		NOT FOUND							
35		NOT FOUND							
36		NOT FOUND							
37	163	1106	18:26	30	0.969	A BB	451.	0.405 NG	0.04
38		NOT FOUND							
39	153	1146	19:06	30	1.004	A BV	83883.	96.796 NG	9.15
40		NOT FOUND							
41		NOT FOUND							
42	168	1170	19:30	30	1.025	A VB	362.	0.256 NG	0.02
43	65	1161	19:21	30	1.018	A BV	27825.	181.572 NG	17.16
44	165	1176	19:36	30	1.031	A BB	33842.	114.807 NG	10.85
45		NOT FOUND							
46		NOT FOUND							
47		NOT FOUND							
48		NOT FOUND							
49		NOT FOUND							
50	169	1241	20:41	30	1.088	A BB	735.	1.957 NG	0.19

31 001390

027561

Quantitation Report File: 1225

Data: 1225.TI

03/08/84 18:19:00

Sample: BNA SAMPLE R3571MS CASE 2427 GC 1.2UL

Submitted by: VERSAR Analyst: SEP

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)\* 1.670  
Resp. fac. from linear fit to whole .RL

NO	NAME
91	PHENANTHRENE D10 ***INTERNAL STANDARD#4***
92	1,2-DIPHENYLHYDRAZINE
93	4-BROMOPHENYLPHENYLETHER
94	HEXACHLOROBENZENE
95	PENTACHLOROPHENOL
96	PHENANTHRENE
97	ANTHRACENE
98	DIBUTYLPHTHALATE
99	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

027562

31001391

1225

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	188	1366	22:46	51	1.000	A BV	93233.	40.080 NG/UL	7.64
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	266	1346	22:26	51	0.985	A BV	50321.	254.176 NG	48.46
56	NOT FOUND								
57	NOT FOUND								
58	149	1461	24:21	51	1.070	A BV	28198.	15.335 NG	2.92
59	NOT FOUND								
60	NOT FOUND								
61	202	1889	26:29	51	1.163	A BB	114978.	87.182 NG	16.62
62	240	1803	30:03	62	1.000	A BB	19867.	40.080 NG/UL	7.64
63	NOT FOUND								
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								
67	149	1814	30:14	62	1.006	A BB	4559.	7.575 NG	1.44
68	264	2239	37:19	68	1.000	A BB	16815.	80.160 NG/UL	15.28
69	NOT FOUND								
70	NOT FOUND								
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								

027563

31 001392

PROCEDURE: TCA  
DATA FILE: I1  
REFERENCE: QTAB  
NAME LIST: GC  
REPORT: Q5

DIAGNOSTIC REPORT

3/08/84 19:42:21

INITIALIZATION OPTION: 2 PROCESSING OPTION: 3

< ---- STANDARDS ---- > < --- PLUS UNKNOWN --- > < - LIST NAMES - >  
PROC USED POSS RMS PROC USED POSS RMS STANDARD/UNKNOWN  
Quantitation Report File: 1225

Data: 1225.T1  
03/08/84 18:19:00  
Sample: BNA SAMPLE R3571MS CASE 2427 GC 1.2UL  
Submitted by: VERSAR Analyst: SEP

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)\* 1.670  
Resp. fac. from Library Entry

- 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-TERPHENYL D14 \*BN SURROGATE\*
- 11 CHRYSENE D12\*\*\*INTERNAL STANDARD#5\*\*\*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	ZTot
1	112	536	8:56	3	0.771	A BB	56916.	83.106 NG	12.58 (A)
<del>2</del>	<del>97</del>	<del>682</del>	<del>10:52</del>	<del>3</del>	<del>0.938</del>	<del>A BB</del>	<del>7910.</del>	<del>99.7 9.687 NG</del>	<del>1.46</del>
3	152	695	11:35	3	1.000	A BB	16297.	40.080 NG/UL	6.07
4	82	776	12:56	5	0.886	A BB	44473.	73.487 NG	11.13
5	136	876	14:36	5	1.000	A BB	63322.	40.080 NG/UL	6.07
6	172	1037	17:19	7	0.911	A BV	107468.	81.743 NG	12.38
7	164	1141	19:01	7	1.000	A BB	32118.	40.080 NG/UL	6.07
8	330	1262	21:02	9	0.924	A BB	20751.	132.077 NG	20.00
9	188	1366	22:46	9	1.000	A BV	53233.	40.080 NG/UL	6.07
10	244	1612	26:52	11	0.894	A BB	116427.	79.871 NG	12.09
11	240	1803	30:03	11	1.000	A BB	19867.	40.080 NG/UL	6.07

(1) SEE QUAN LIST 2 PAGES BACK.  
PROTON EXCHANGE OCCURRED

027564

001393

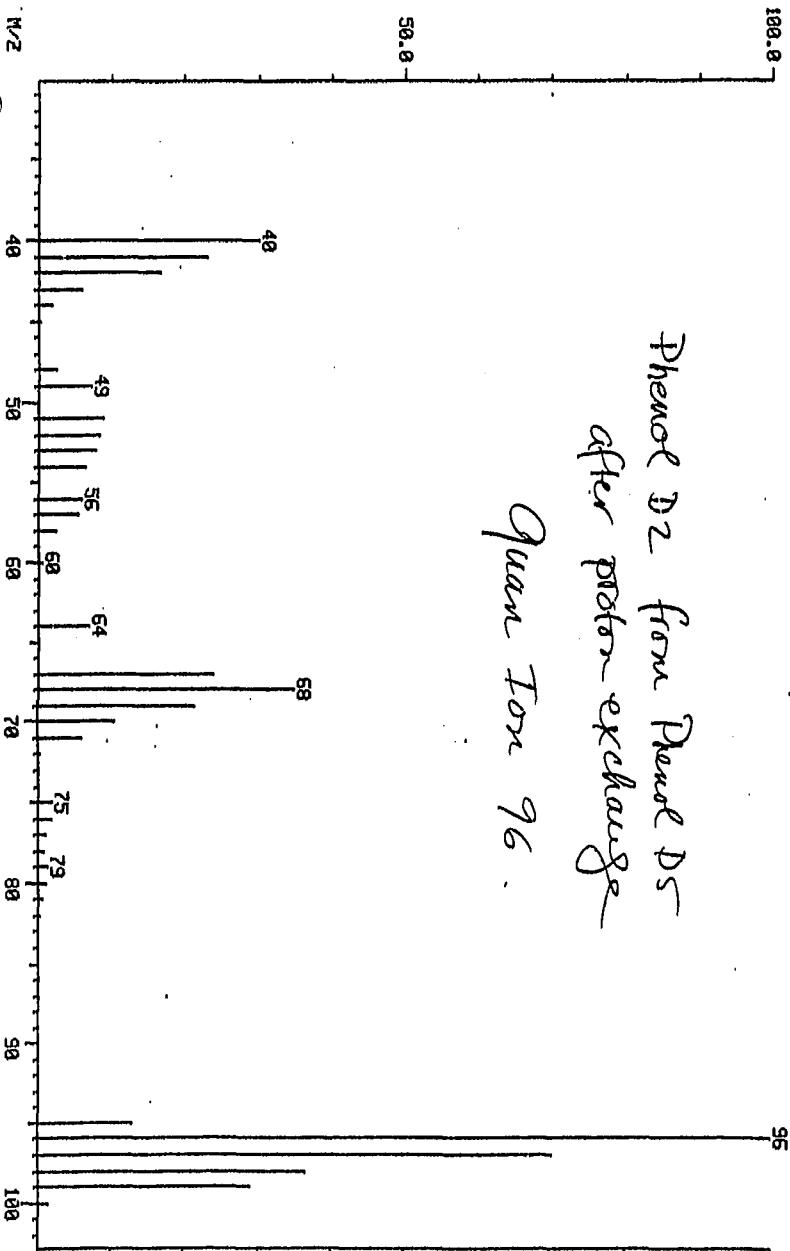
MASS SPECTRUM  
03/08/84 18:19:00 + 10:52  
SAMPLE: BNA SAMPLE R3571MS CASE 2427 GC 1.2UL  
COND.: SPR-5 300KPa, 32MMID 1.0UMDF 30C/4MIN TO 280C0.10C/MIN HOLD 25MIN  
ENHANCED (S 158 2N 0T)

DATA: 1225 #652  
CPLI: 1225 #3

BASE W/Z: 96  
RIC: 54848.

*Phenol D2 from Phenol D5  
after proton exchange*

*Quant Ion 96*



027565

37001394

X

Quantitation Report File: 12259

Data: 1225.TI  
03/08/84 18:19:00  
Sample: BNA SAMPLE R3571MS CASE 2427 QC 1.2UL  
Submitted by: VERSAR Analyst: SEP

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)\* 1.670  
Resp. fac. from Library Entry

NO NAME  
1 1,4-DICHLOROBENZENE D4 \*\*\*INTERNAL STANDARD#1\*\*\*  
2 PHENOL D5 \*ACID SURROGATE\*

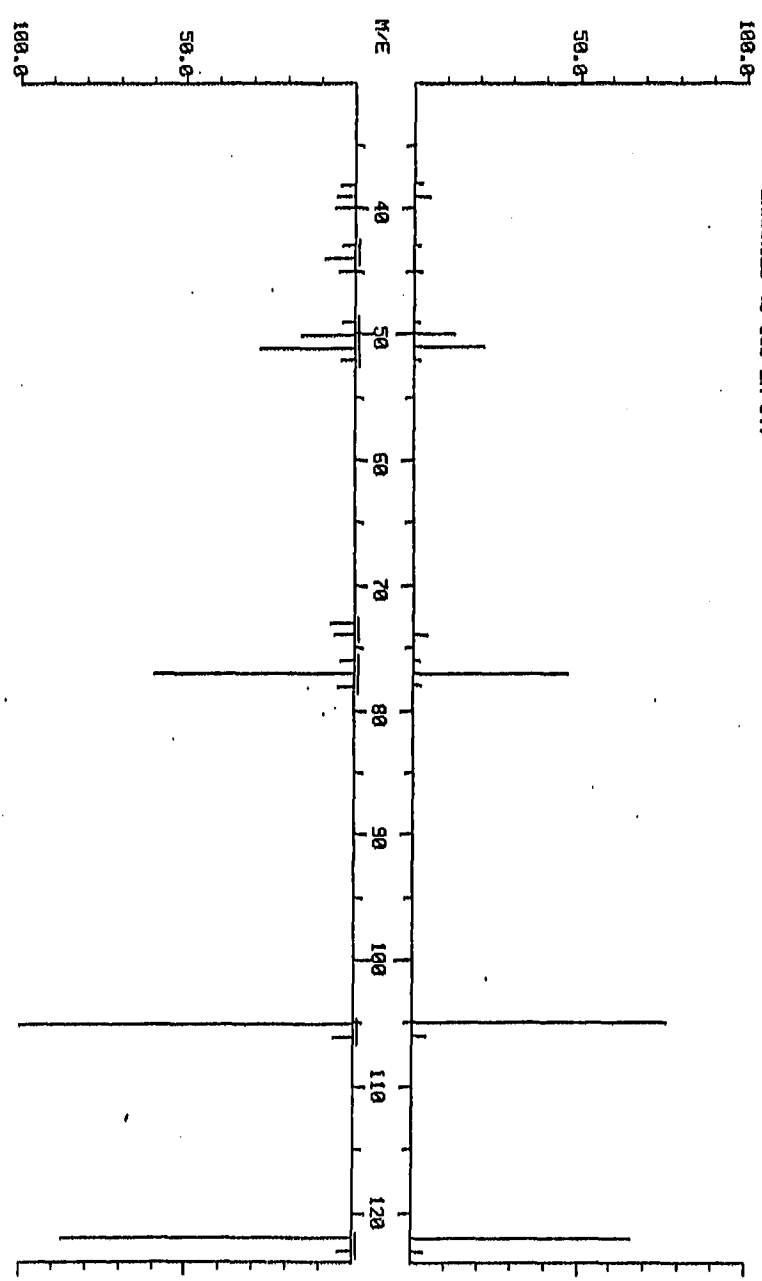
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	699	11:39	1	1.000	A BB	16297.	40.080 NG/UL	28.67
2	98	652	10:52	1	0.938	A BV	67773.	99.700 NG	71.33

31 001395 \*  
027566

DUAL MASS SPECTRUM  
 03/08/84 18:19:00 + 13:57  
 SAMPLE: BNA SAMPLE R357ZINS CASE 2427 GC 1.2UL  
 COND: : SP8-5 30MM\*0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 ENHANCED (S 158 ZN 01)

DATA: 1225 #837  
 CALL: 1225 #3

BASE M/Z: 105/105  
 RIC: 1493.7



02756

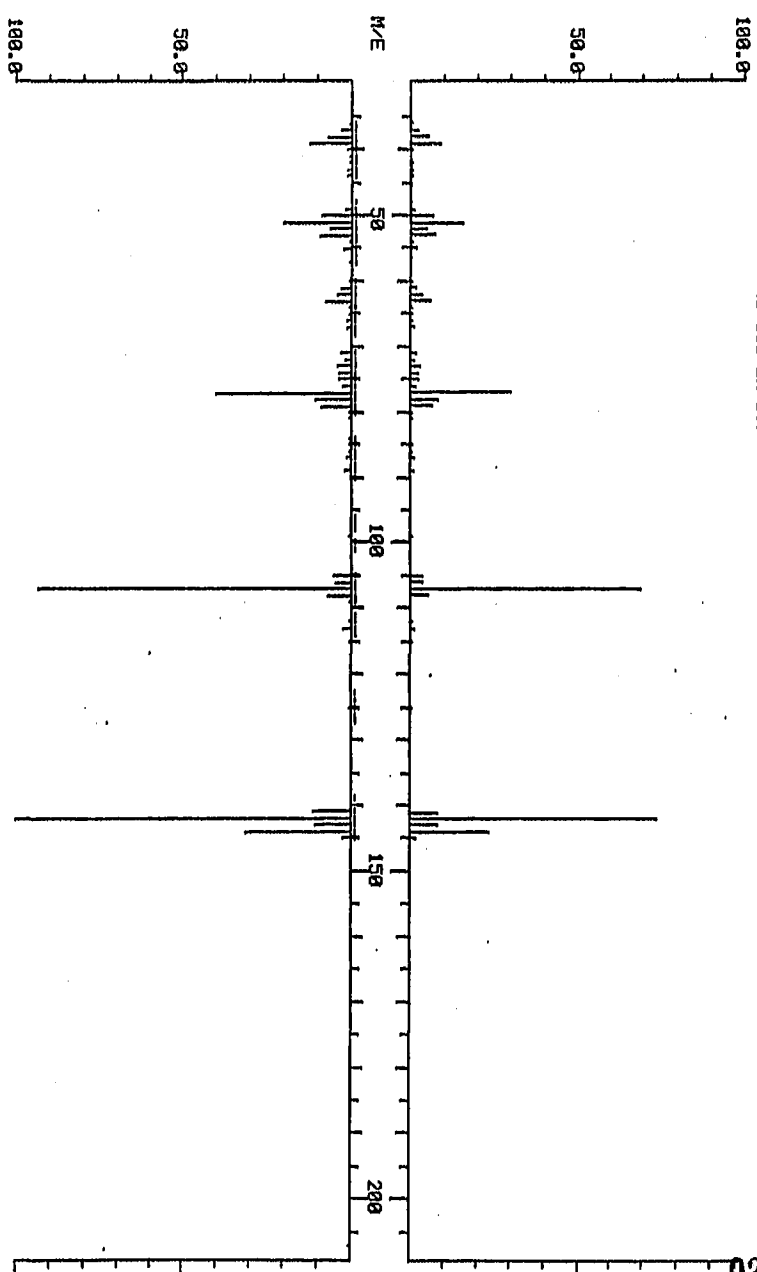
31 001401

586.

BURL MASS SPECTRUM  
03/08/84 18:19:00 + 16:00  
SAMPLE: BNA SAMPLE R3571NS CASE 2427 QC 1.2UL  
CONDS.: SP8-5 30MMX0.32MMX1D 1.0UMDF 30C/4MIN TO 288C@10C/MIN HOLD 25MIN  
ENRANGED (S 158 2N 0T)

DATA: 1225 #360  
CALL: 1225 #3

BASE M/Z: 142/142  
R/C: 70015.719.



027560

31 001402

20864.

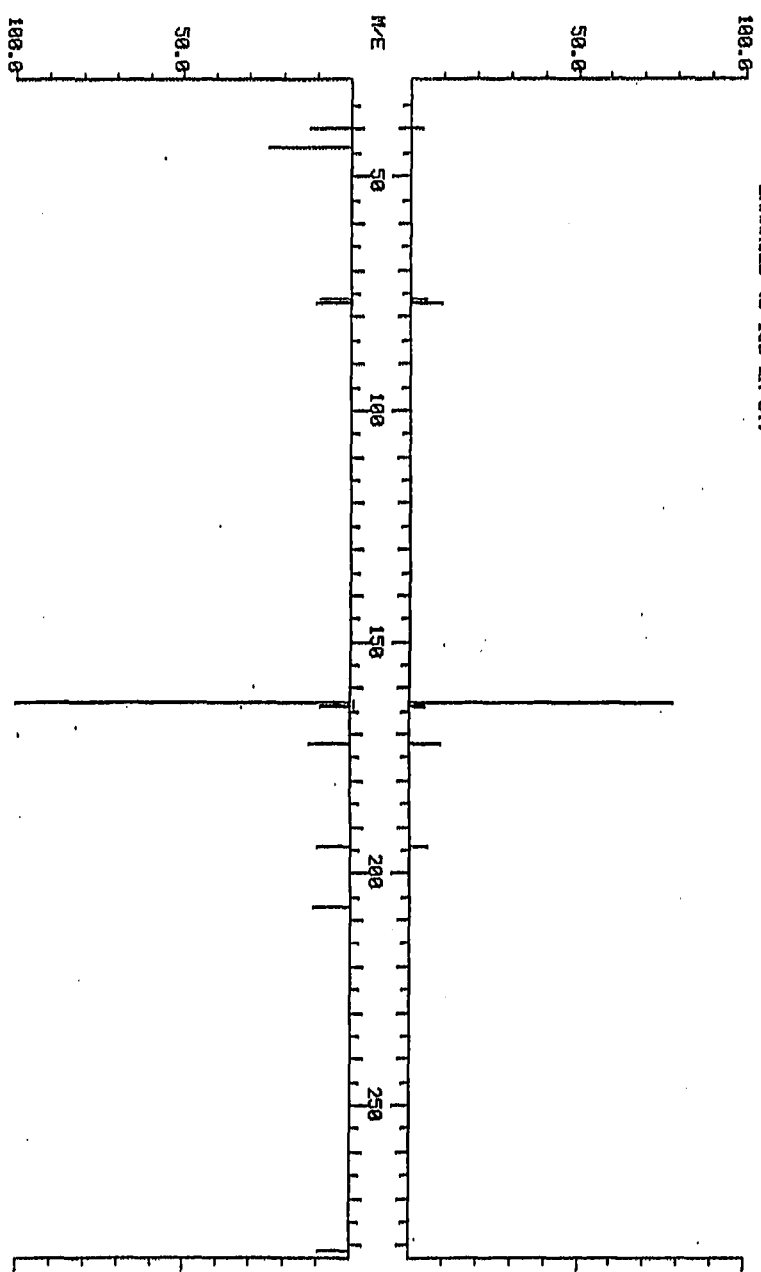
20864.



DUAL MASS SPECTRUM  
03/08/84 18:19:00 +.18:25  
SAMPLE: BNA SAMPLE R3571NS CASE 2427 QC 1.2UL  
COND.: SPB-S 30WV0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
ENHANCED (S 158 ZN 01)

DATA: 1225 #1105  
CALL: 1225 #3

BASE M/Z: 163/ 163  
RIC: 265. / 491.



027569

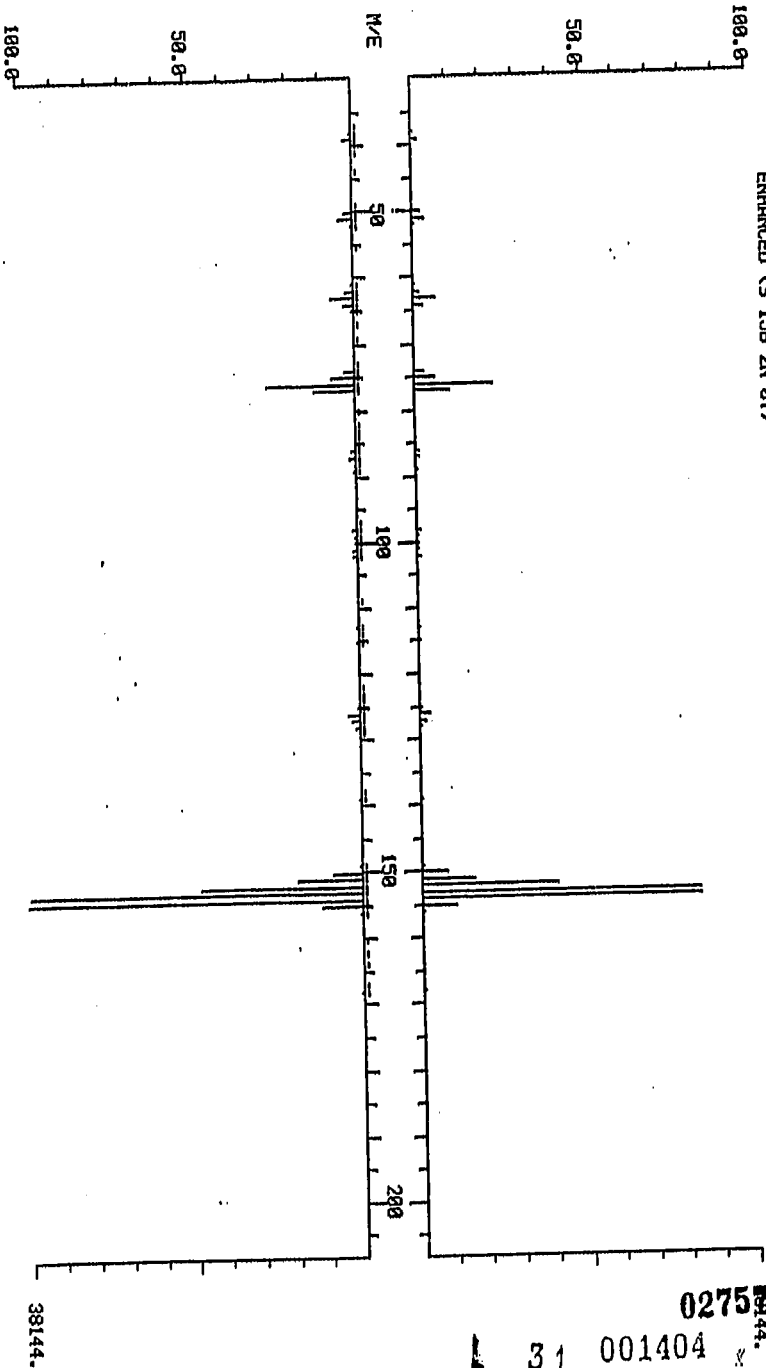
31 001403

229.

DUAL MASS SPECTRUM  
03/08/84 18:19:00 + 19:06  
SAMPLE: BNA SAMPLE R357JMS CASE 2427 QC 1.2UL  
COND: 1. SPR-5 30MK0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
ENHANCED (S 158 2N 8T)

DATA: 1225 #1146  
CALL: 1225 #3

BASE M/Z: 154/ 154  
RIC: 123263./ 146431.

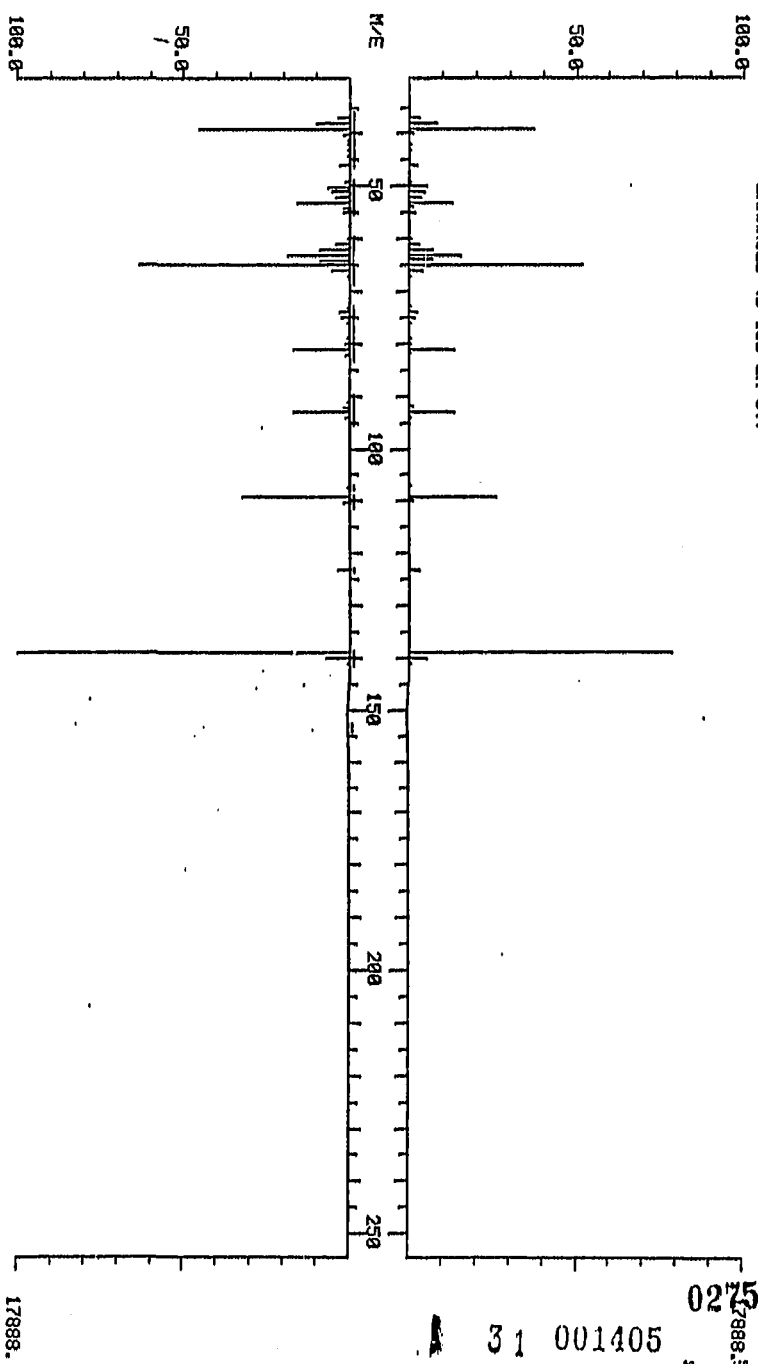


31 001404

DIAL MASS SPECTRUM  
 03/09/84 18:19:08 + 19:21  
 SAMPLE: BNA SAMPLE R3571MS CASE 2427 GC 1.20F  
 COND5.: SP8-5 30MK0.32MMID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 25MIN  
 ENHANCED (S 158 ZN 0T)

DATA: 1225 #1161  
 CALL: 1225 #3

BASE M/Z: 139 / 139  
 RIC: 58559. / 73215.



027571

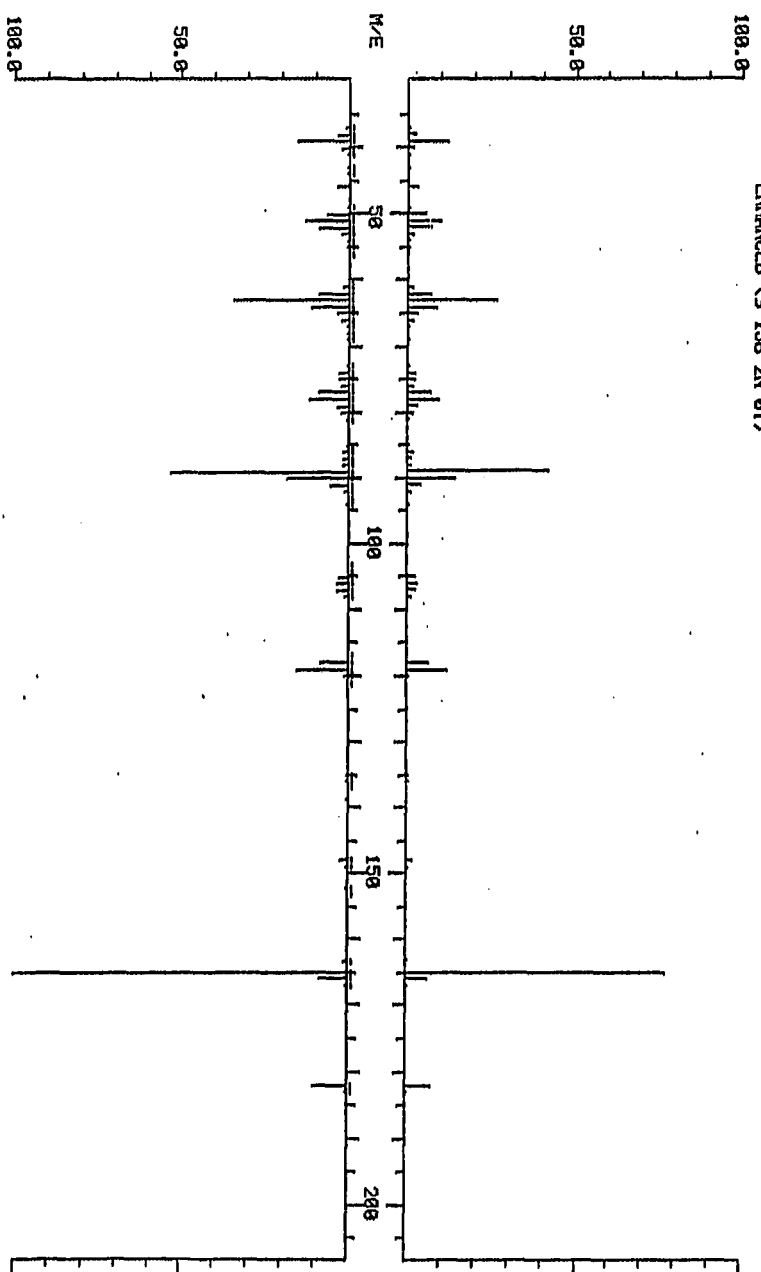
31 001405

17888.

DURL MASS SPECTRUM  
 03/08/84 18:19:00 + 19:36  
 SAMPLE: BNA SAMPLE RESYNTH CASE 2427 GC 1.2M  
 CONDOS: 1 SPB-5 308110.32MMID 1.0UMDF 30C/AMIN TO 280C210C/MIN HOLD 26MIN  
 ENHANCED (S 158 2M 0T)

DATE: 1225 #1176  
 CALL: 1225 #3

BASE M/Z: 155/ 165  
 RIC: 51967. / 67711.



31 001406

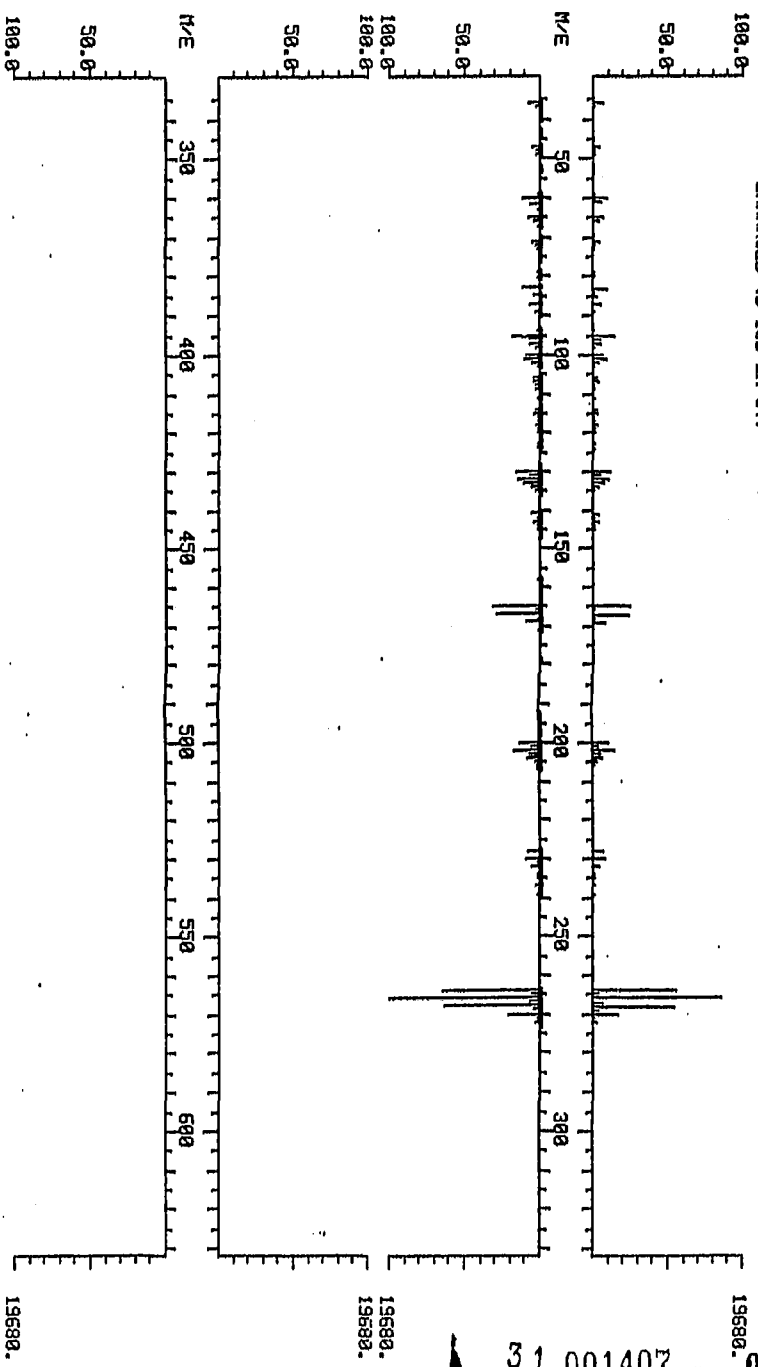
16415. 027579

16415.

DUAL MASS SPECTRUM  
 03/08/84 18:19:00 + 22:26  
 SAMPLE: BNA SAMPLE R3571NS CASE 2427 GC 1.2UL  
 CONDOS.: SP8-5 300KX0.32MMID 1.0UMDF 30C/MIN TO 280C@10C/MIN HOLD 26MIN  
 ENHANCED (S 158 2K 0T)

DATA: 1225 #1346  
 CALL: 1225 #3

BASE M/Z: 266/ 266  
 RIC: 111615./ 136191.



31 001407 x 027573

19680.

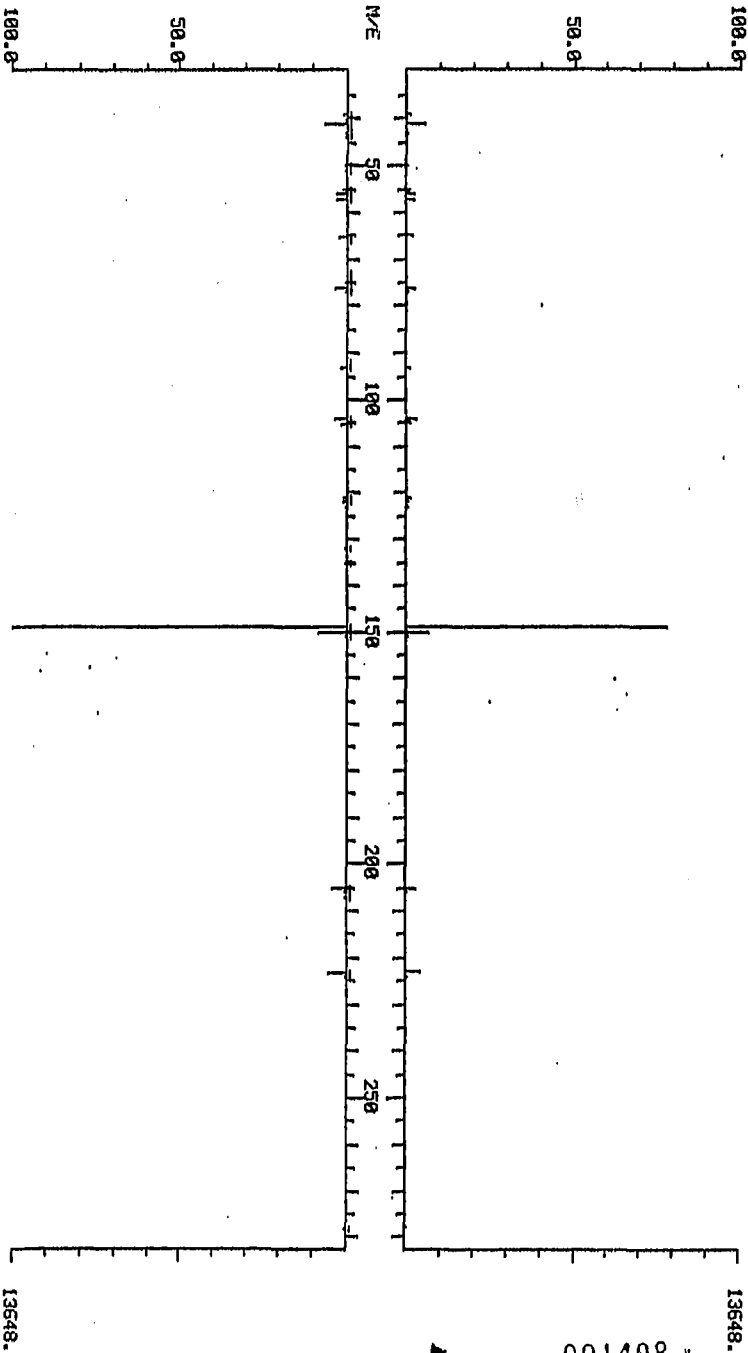
19680.  
 19680.

19680.

DUAL MASS SPECTRUM  
03/08/84 18:19:00 + 24.21  
SAMPLE: BWA SAMPLE R3571NS CASE 2427 QC 1.2UL  
COND.: SP8-S 300X10.32MMID 1.0UMDF 300/4MIN TO 2800C10C/MIN HOLD 26MIN  
ENHANCED (S 158 ZN 01)

DATA: 1225 #1461  
CALI: 1225 #3

BASE M/Z: 149 / 149  
RICH: 16539 / 21471.



31

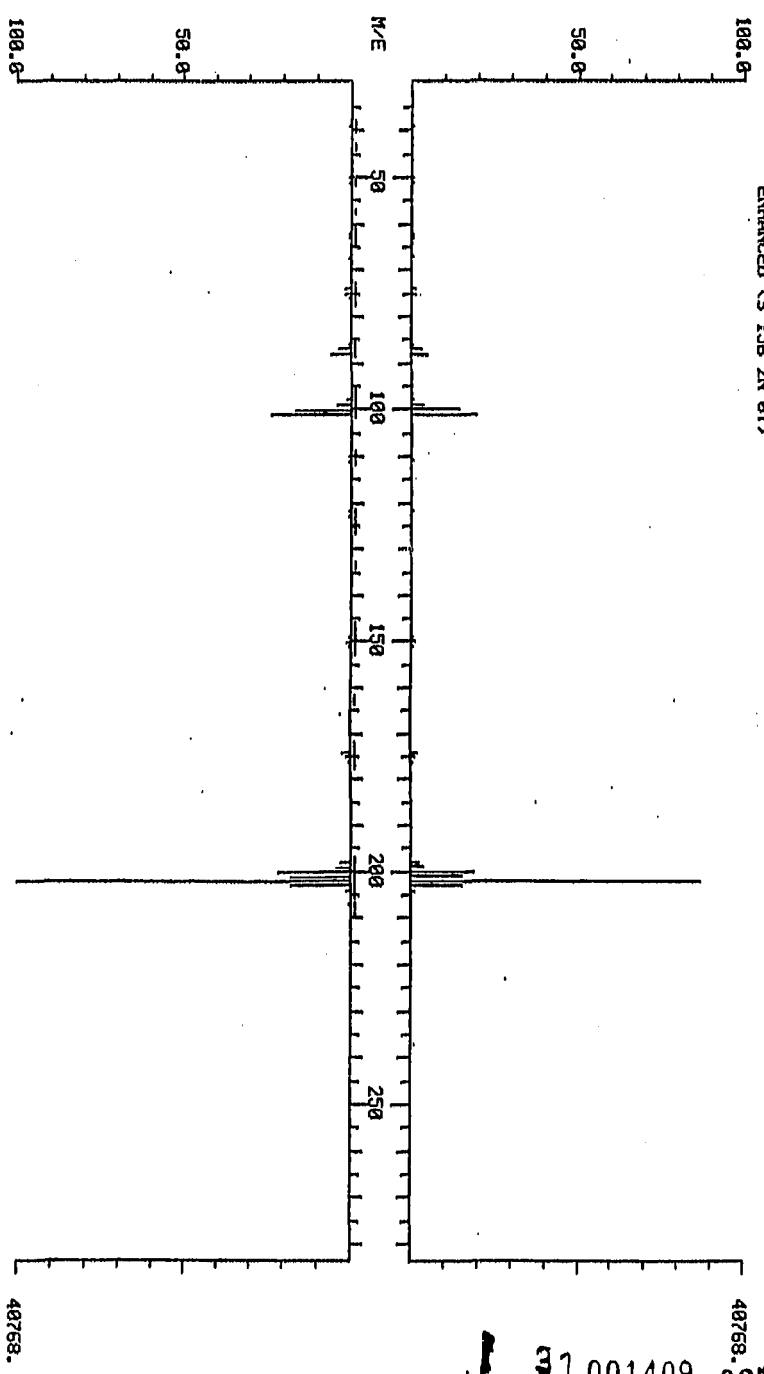
001408 x

027574

DUAL MASS SPECTRUM  
03/08/84 18:19:00 + 26:29  
SAMPLE: BNA SAMPLE R3571NS CASE 2427 GC 1.21L  
COND.S.: SP8-S 30MMX0.32MMID 1.0UMDF 30C/4MIN TO 280C/10C/MIN HOLD 26MIN  
ENHANCED (S 158 2X 011)

DATA: 1225 #1589  
CALL: 1225 #3

BASE M/Z: 202 / 202  
RIC: 84223. / 98559.



31001409 027575

6

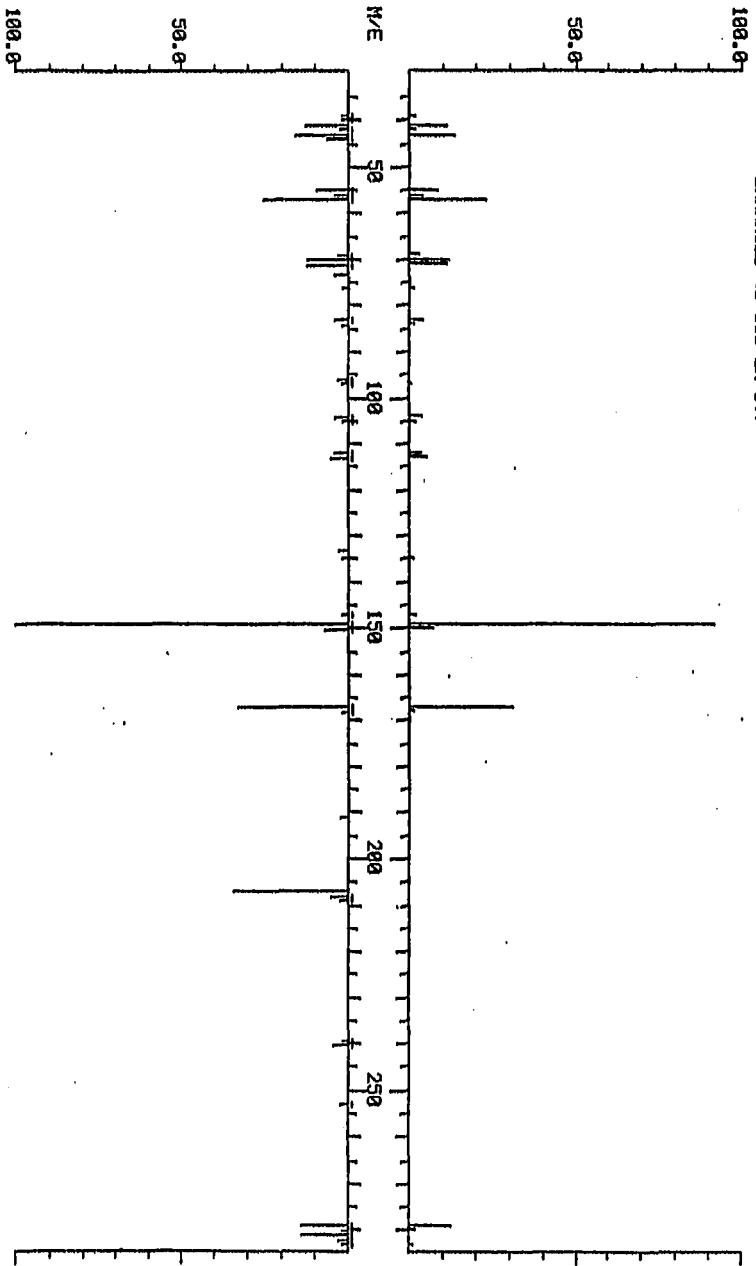
6

6

DUAL MASS SPECTRUM  
03/08/84 18:19:00 + 30:14  
SAMPLE: BNA SAMPLE R357JMS CASE 2427 GC 1.2UL  
COND. 1 SPB-5 30MK0.32MMID 1.0UMDF 30C/4MIN TO 280C@18C/MIN HOLD 26MIN  
ENRAGED CS 1SB ZN 017

DATA: 1225 #1814  
CALL: 1225 #3

BASE M/Z: 149 / 149  
R/C: 3315. / 4791.



31 001410

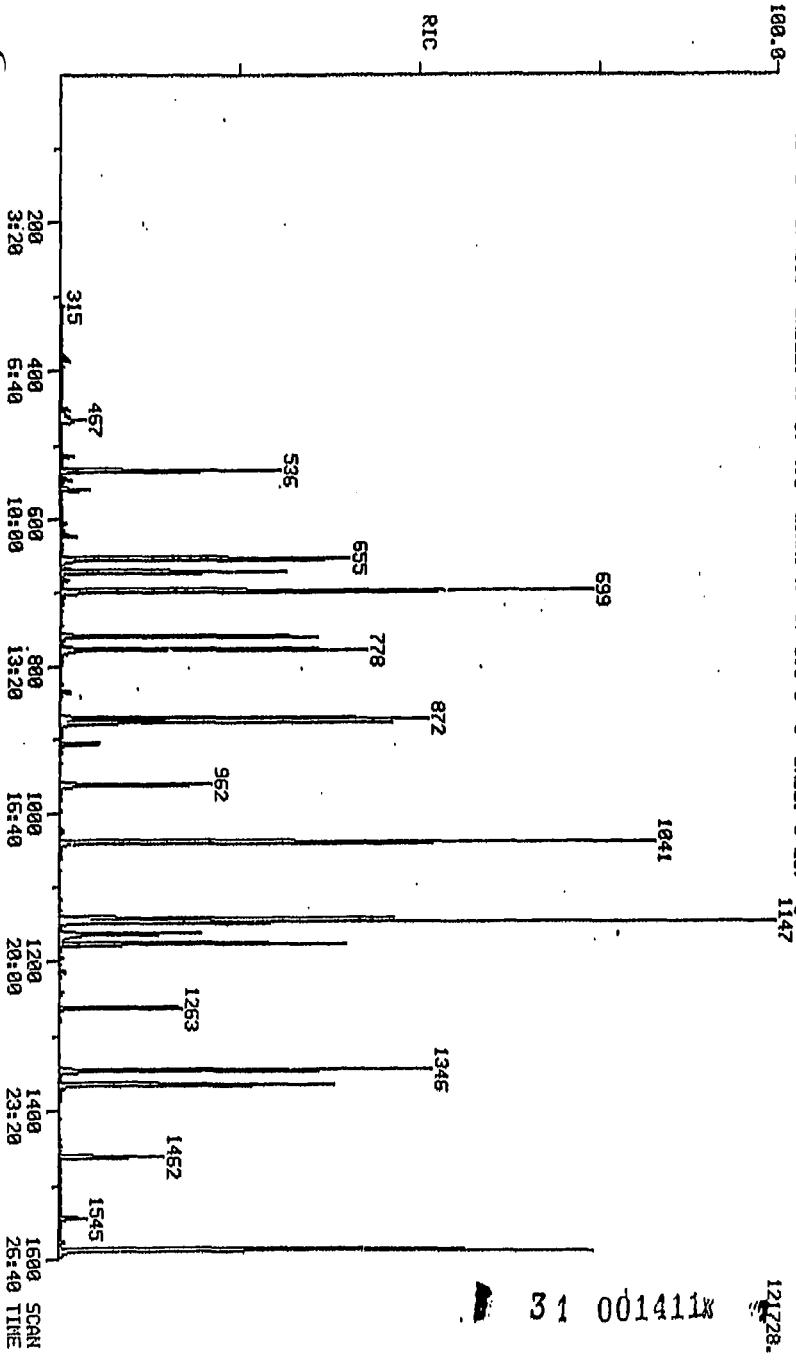
1268.  
027576

1268.



RIC  
 03/14/84 16:13:00  
 SAMPLE: BNA R35710MS CASE 2411 2.4UL 1/20DILUTION SEP  
 COND5: 1 5PB-5 30M\*0.32MMID 1.0UMDF 30C/4MIN TO 280C10C/MIN HOLD 25MIN  
 RANGE: G 1.3100 LABEL: N 0, 4.0 QUANT: R 0, 1.0 J 0 BASE: U 20, 1147

DATA: 1271 #760  
 CALL: 1271 #3  
 SCANS 1 TO 1600

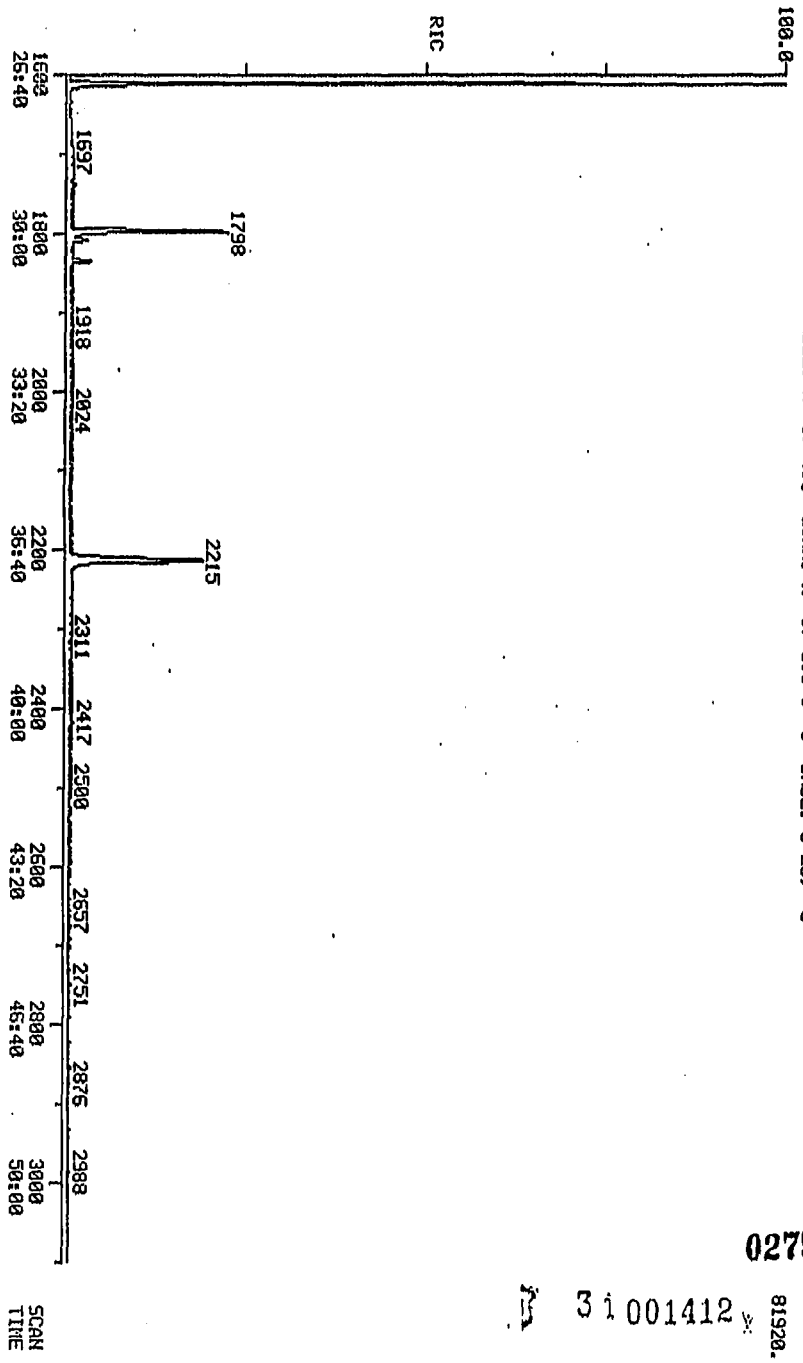


31 001411x

12728.

027577

RIC  
 03/14/84 16:13:00 DATA: 1271 #760 SCANS 1600 TO 3100  
 03/14/84 16:13:00 CALL: 1271 #3  
 SAMPLE: BNA R35710MS CASE 2411 2.4UL 1/2DILUTION SEP  
 COND-S: 1 SPB-S 30MS 0.22MID 1.8UMDF 30C/4MIN TO 280C/10C/MIN HOLD 26MIN  
 RANGE: G 1.3100 LABEL: N 0, 4.0 RUN#: A 0, 1.0 J 0 BASE: U 20, 3



027578

31001412 81920

TCA FINISHED, 21 FOUND  
FINISHED AT: 3/14/84 17:37:33  
Quantitation Report File: 1271

Data: 1271.TI  
03/14/84 16:13:00  
Sample: BNA R3371DMS CASE 2411 2.4UL 1/2DILUTION SEP  
Submitted by: VERSAR Analyst: SEP

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

NO	NAME
1	1,4-DICHLORO BENZENE D4 ***INTERNAL STANDARD#1***
2	N-NITROSDIMETHYLAMINE
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	ISOPHORDNE
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	HEXACHLORO BUTADIENE
28	4-CHLORO-M-CRESOL
29	2-METHYLNAPHTHALENE
30	ACENAPHTHENE D10 ***INTERNAL STANDARD#3***
31	HEXACHLORO CYCLOPENTADIENE
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

31

001418

027570

## 50 DIPHENYLAMINE

1271

No	m/z	Scan	Time	Ref	RRT	Meth	Area (Hght)	Amount	%Tot
1	152	697	11:37	1	1.000	A BB	14972.	40.080 NG/UL	5.75
2	NOT FOUND								
3	NOT FOUND								
4	128	673	11:13	1	0.966	A BB	29956.	48.949 NG	7.02
5	94	656	10:56	1	0.941	A BV	36485.	46.369 NG	6.65
6	NOT FOUND								
7	146	699	11:39	1	1.003	A BB	47796.	73.490 NG	10.55
8	148	699	11:39	1	1.003	A BB	30050.	67.754 NG	9.72
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	878	14:38	17	1.000	A BV	59897.	40.080 NG/UL	5.75
18	NOT FOUND								
19	NOT FOUND								
20	NOT FOUND								
21	NOT FOUND								
22	NOT FOUND								
23	180	872	14:32	17	0.993	A BB	30941.	57.950 NG	8.32
24	NOT FOUND								
25	NOT FOUND								
26	NOT FOUND								
27	NOT FOUND								
28	107	962	16:02	17	1.096	A BB	14328.	33.823 NG	4.85
29	NOT FOUND								
30	164	1142	19:02	30	1.000	A BB	33372.	40.080 NG/UL	5.75
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	153	1147	19:07	30	1.004	A BV	64474.	75.777 NG	10.87
40	NOT FOUND								
41	NOT FOUND								
42	NOT FOUND								
43	65	1163	19:23	30	1.018	A BV	13793.	91.758 NG	13.17
44	165	1177	19:37	30	1.031	A BB	24164.	79.327 NG	11.38
45	NOT FOUND								
46	NOT FOUND								
47	NOT FOUND								
48	NOT FOUND								
49	NOT FOUND								
50	169	1242	20:42	30	1.088	A BB	558.	1.496 NG	0.21

31 001414  
027580

Quantitation Report File: 1271

Data: 1271.TI

03/14/84 16:13:00

Sample: BNA R3571DMS CASE 2411 2.4UL 1/2DILUTION SEP

Submitted by: VERSAR Analyst: SEP

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

- 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
- 76 N-NITROSO-DI-N-PROPYLAMINE

31001415

027581

1271

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	188	1366	22:46	51	1.000	A BB	50889.	40.080 NG/UL	9.09
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	266	1346	22:26	51	0.985	A BB	22804.	122.122 NG	27.70
56	NOT FOUND								
57	NOT FOUND								
58	149	1462	24:22	51	1.070	A BB	23907.	18.684 NG	4.24
59	NOT FOUND								
60	NOT FOUND								
61	202	1588	26:28	51	1.163	A BB	95481.	81.021 NG	18.38
62	240	1797	29:57	62	1.000	A BB	20727.	40.080 NG/UL	9.09
63	NOT FOUND								
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								
67	149	1808	30:08	62	1.006	A BB	1949.	2.884 NG	0.65
68	264	2214	36:54	68	1.000	A BB	36257.	80.160 NG/UL	18.18
69	NOT FOUND								
70	NOT FOUND								
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								
76	43	760	12:40	1	1.090	A BV	20540.	55.854 NG	12.67

027582

31001416 \*

TCA FINISHED, 11 FOUND  
FINISHED AT: 3/14/84 17:11:25  
Quantitation Report File: 1271

Data: 1271.TI  
03/14/84 16:13:00  
Sample: BNA R3971DMS CASE 2411 2.4UL 1/2DILUTION SEP  
Submitted by: VERSAR Analyst: SEP

*Rerun*

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

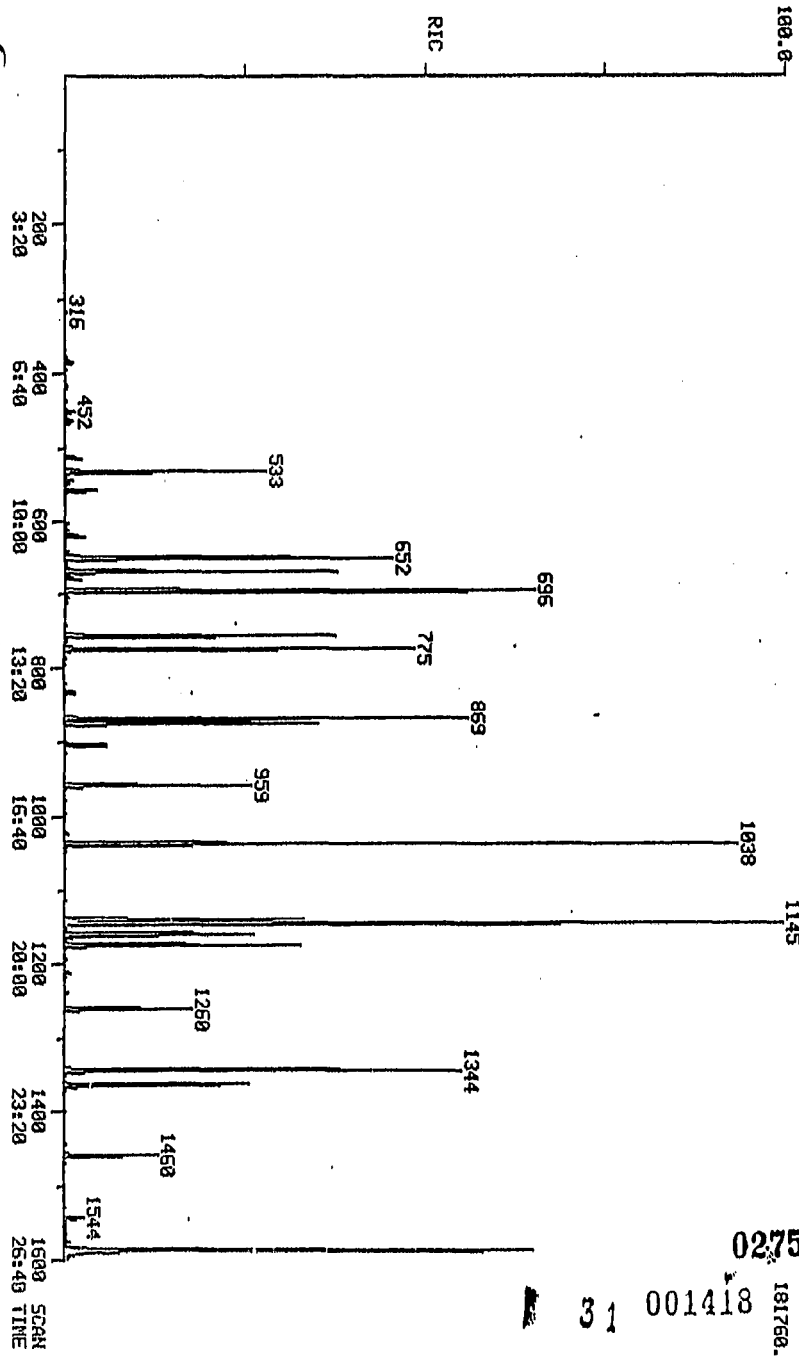
No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	152	697	11:37	1	1.000	A BB	14972.	40.080 NG/UL	7.03
2	112	536	8:56	1	0.769	A BB	27053.	51.465 NG	9.02
3	99	654	10:54	1	0.938	A BV	32403.	50.595 NG	8.87
4	136	878	14:38	4	1.000	A BV	59897.	40.080 NG/UL	7.03
5	82	778	12:58	4	0.886	A BB	37232.	73.755 NG	12.93
6	164	1142	19:02	6	1.000	A BB	33372.	40.080 NG/UL	7.03
7	172	1041	17:21	6	0.912	A BB	82154.	68.101 NG	11.94
8	188	1366	22:46	8	1.000	A BB	50889.	40.080 NG/UL	7.03
9	330	1262	21:02	8	0.924	A BB	9285.	56.731 NG	9.94
10	240	1797	29:57	10	1.000	A BB	20727.	40.080 NG/UL	7.03
11	244	1612	26:52	10	0.897	A BB	79541.	69.498 NG	12.17

*QC OK.*

3 D01417

027589

RIC  
 03/08/84 19:27:00  
 SAMPLE: BNA SAMPLE R35710MS CASE 2427 1.2UL SEP  
 COND.: SP8-5 30MK0.32KMTID 1.0UMDF 30C/4MIN TO 280C@10C/MIN HOLD 26MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUAN: A 0, 1.0-J 0 BASE: U 20,  
 DATA: 1225 #560  
 CALL: 1225 #3  
 SCANS 1 TO 1600



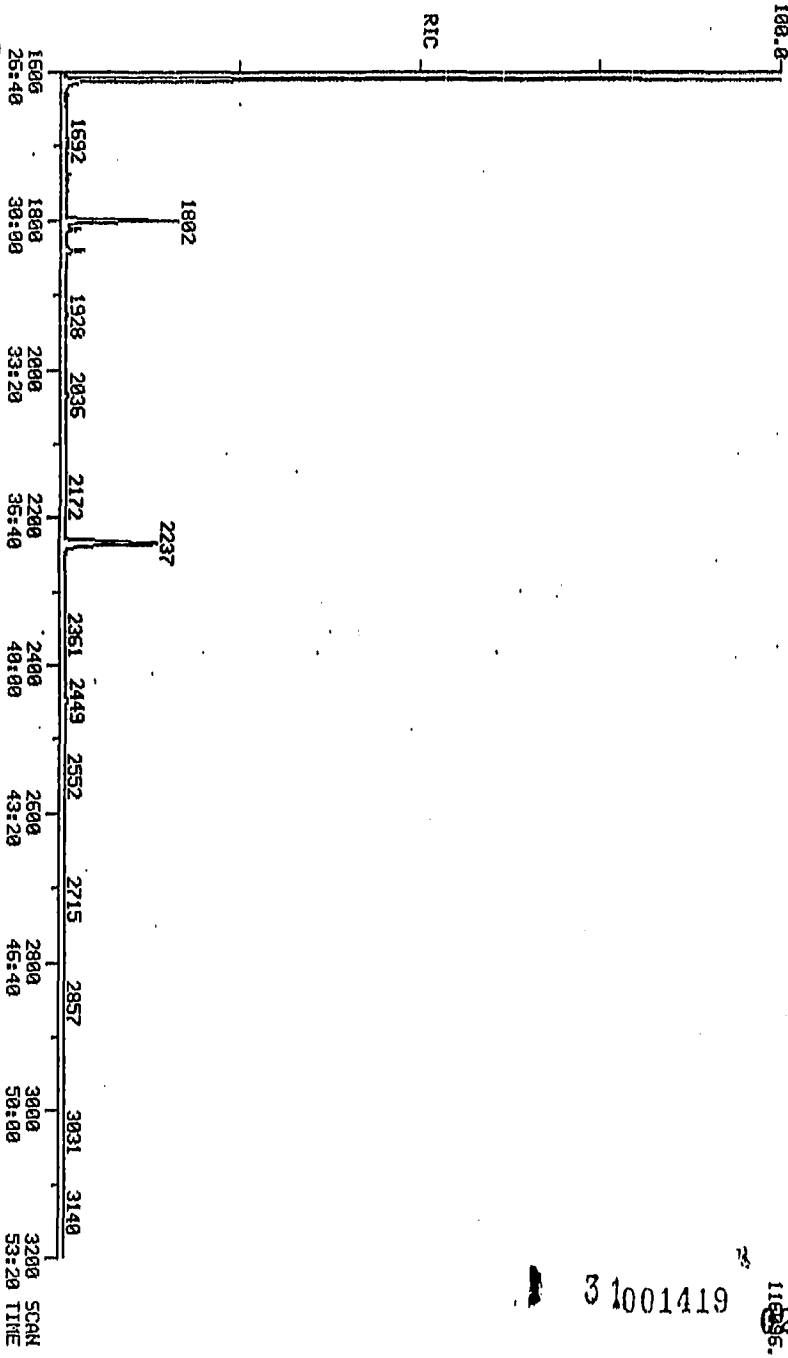
027584

31 001418

1817.68



RIC  
 03/08/84 19:27:00  
 SAMPLE: BNA SAMPLE R35710MS CASE 2427 1.2ML SEP  
 COND.: SPB-5 300X0.32MMID 1.0UMDF 30C/4MIN TO 280C210C/1MIN HOLD 25MIN  
 RANGE: G 1.3200 LABEL: N 0, 4.0 QUANT: A 0, 1.0 J 0 BASE: U 20, 3  
 DATA: 1226 #560  
 CALL: 1226 #3  
 SCANS 1600 TO 3200



31001419  
 1102  
 27585

Quantitation Report File: 1226

Data: 1226, T1  
03/08/84 19:27:00  
Sample: BNA SAMPLE R3571DMS CASE 2427 1.2UL SEP  
Submitted by: VERSAR Analyst: SEP

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)\* 1.670  
Resp. fac. from linear fit to whole .RL

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-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	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	HEXACHLOROBUTADIENE
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-O-CRESOL
50	DIPHENYLAMINE

027586

31 001420

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
1	182	694	11:34	1	1.000	A BB	15943.	40.080 NG/UL	4.01
2		NOT FOUND							
3		NOT FOUND							
4	128	670	11:10	1	0.965	A BB	43516.	65.541 NG	6.55
5	94	692	10:52	1	0.937	A BV	51745.	61.793 NG	6.20
6		NOT FOUND							
7	146	696	11:36	1	1.003	A BB	69964.	98.119 NG	9.81
8	148	696	11:36	1	1.003	A BB	43277.	90.645 NG	9.06
9		NOT FOUND							
10		NOT FOUND							
11		NOT FOUND							
12		NOT FOUND							
13		NOT FOUND							
14		NOT FOUND							
15	43	757	12:37	1	1.091	A BV	30727.	79.809 NG	7.98
16		NOT FOUND							
17	136	879	14:35	17	1.000	A BB	62055.	40.080 NG/UL	4.01
18		NOT FOUND							
19		NOT FOUND							
20		NOT FOUND							
21		NOT FOUND							
22		NOT FOUND							
23	180	869	14:29	17	0.993	A BB	45976.	81.411 NG	8.14
24		NOT FOUND							
25		NOT FOUND							
26		NOT FOUND							
27		NOT FOUND							
28	107	959	15:59	17	1.096	A BB	20939.	49.264 NG	4.92
29		NOT FOUND							
30	144	1140	19:00	30	1.000	A BB	33687.	40.080 NG/UL	4.01
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	153	1149	19:05	30	1.004	A BV	93831.	106.609 NG	10.66
40		NOT FOUND							
41		NOT FOUND							
42		NOT FOUND							
43	65	1159	19:19	30	1.017	A BV	19829.	132.733 NG	13.27
44	165	1175	19:35	30	1.031	A BB	34324.	112.351 NG	11.23
45		NOT FOUND							
46		NOT FOUND							
47		NOT FOUND							
48		NOT FOUND							
49		NOT FOUND							
50	167	1239	20:39	30	1.087	A BB	710.	1.872 NG	0.19

027587

31 001421

Quantitation Report File: 1226

Data: 1226.TI  
03/08/84 19:27:00  
Sample: BNA SAMPLE R3971DMS CASE 2427 1.2UL SEP  
Submitted by: VERGAR Analyst: SEP

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)\* 1.670  
Resp. fac. from linear fit to whole .RL

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

027588

31 001422 \*

No	m/z	Scan	Time	Ref	RRT	Meth	Area(Hght)	Amount	%Tot
51	188	1344	22:44	51	1.000	A BB	52038.	40.080 NG/UL	8.41
52	NOT FOUND								
53	NOT FOUND								
54	NOT FOUND								
55	266	1344	22:24	51	0.985	A BB	35492.	182.835 NG	38.34
56	NOT FOUND								
57	NOT FOUND								
58	149	1460	24:20	51	1.070	A BV	33928.	18.695 NG	3.92
59	NOT FOUND								
60	NOT FOUND								
61	202	1587	26:27	51	1.163	A BB	136981.	110.253 NG	23.13
62	240	1801	30:01	62	1.000	A BV	20502.	40.080 NG/UL	8.41
63	NOT FOUND								
64	NOT FOUND								
65	NOT FOUND								
66	NOT FOUND								
67	149	1813	30:13	62	1.007	A BB	2645.	4.527 NG	0.95
68	264	2236	37:16	68	1.000	A BB	35435.	80.160 NG/UL	16.82
69	NOT FOUND								
70	NOT FOUND								
71	NOT FOUND								
72	NOT FOUND								
73	NOT FOUND								
74	NOT FOUND								
75	NOT FOUND								

027589

31

001428 \*

Quantitation Report File: 1226

Data: 1226.TI

03/08/84 19:27:00

Sample: BNA SAMPLE R3571DMS CASE 2427 1.2UL SEP

Submitted by: VERSAR Analyst: SEP

AMOUNT=AREA \* REF. AMNT/(REF. AREA)\* RESP. FACT)\* 1.670

Resp. fac. from Library Entry

- 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	694	11:34	1	1.000	A BB	15943.	40.080 NG/UL	6.12
2	112	533	8:53	1	0.768	A BV	38499.	57.463 NG	8.78
3	99	650	10:50	1	0.937	A BV	49896.	57.288 NG	8.75
4	136	875	14:35	4	1.000	A BB	62055.	40.080 NG/UL	6.12
5	82	775	12:55	4	0.886	A BB	52804.	89.035 NG	13.60
6	164	1140	19:00	6	1.000	A BB	33687.	40.080 NG/UL	6.12
7	172	1038	17:18	6	0.911	A BV	119875.	85.345 NG	13.04
8	188	1364	22:44	8	1.000	A BB	52038.	40.080 NG/UL	6.12
9	330	1260	21:00	8	0.924	A BB	13835.	90.095 NG	13.76
10	240	1801	30:01	10	1.000	A BV	20502.	40.080 NG/UL	6.12
11	244	1611	26:51	10	0.895	A BB	112784.	74.974 NG	11.45

027590

31 001424

PESTICIDE DATA REDUCTION FORM

Case # 2427  
 Sample H<sub>2</sub>O Vol 1 L  
 % Moisture NA

Sample # Metland Steamhead  
 Final Vol 10 ml  
 Solid or Liquid L

027591

	Typical RT	Fraction	Dilution	Injection Conc. (ppm)	Light Box	Dilution	Return	Injection Conc. (ppm)	Light Box	Second Column	Lgt. Box	% Sample Rec.
α BHC	3.98	1										
β BHC	4.49	1										
γ BHC	4.67	1		2.284				2.5				91%
δ BHC	5.24	.1		0.030								
Keoachlor	6.88	1		1.91				2.5				76%
Aldrin	8.38	1		2.22				2.5				89%
Heptachloropoxide	10.57	1										
ε Endosulfan	13.16	182										
Dieldrin	15.47	2		2.81				2.5				112%
D.D. DDE	15.72	1		0.011								
Endrin	17.67	2		3.01				2.5				128%
β Endosulfan	18.77	3										
D.D. DDD	20.74	1		0.047								
Endrin Aldehyde	21.30	283										
Endosulfan sulfate	24.95	3										
D.D. DDT	26.72	1		2.12				2.5				85%
DDE	47.87	1,2,8,3		2.52				2.5				101%

31001425

EDIT AUTO SEQ 0,9  
PR: AUTO SEQ  
OVEN TEMP NOT READY

*Method Std. 6%*  
*Pest Analysis*

RT: 19:17 MAB 9:11:1984 = 215

1.34
32.31
5.20
6.87
7.52 7.77
8.38
9.26
9.96
12.22
14.01
13.87
14.41
15.05
15.33
16.36
17.78
18.31
19.24
20.81
21.87
22.77
23.96
24.78
26.09
26.72
27.71 27.29
29.09
30.18
30.80
31.85
32.67
33.38
34.06
QV: START PRGM RATE 1
QV: START FINAL TIME 1
36.75
37.51
38.93
39.88
41.35
41.88
42.70
43.47
44.95
47.78
48.75
49.28
55.45

*methoxychlor IS*

31 001426  
X  
027592

BT: 5:00:00 BREADDATA 20 CM MINUTE 2  
... 5:00:00 ... 55.45



AR505500P RUN

[KHP] 5880A SAMPLER INJECTION @ 19:17 MAR 9, 1984

SAMPLE # : ID CODE :  
5 METH STD 6

PESTICIDE MIX CALIBRATION CURVE  
STD

*Peak*

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							BASELINE @ START RUN = 330.73
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
4.67	4.67	54811.80	BV	0.061*	3	2.284	G-BHC ✓
5.20	5.24	317.65	VV	*-----	4	2.967E-02	D-BHC ✓
5.88		43.81	VV	-----		1.314E-03	
6.04		25.34	VV	-----		7.603E-04	
6.15		73.82	VP	-----*		2.215E-03	
6.68		46.51	VV	*-----		1.395E-03	
6.87	6.88	42244.00	VV	0.07 *	5	1.909	HEPTACHLOR ✓
7.52		53.60	VV	-----*		1.608E-03	
7.77		587.61	VP	0.10 *		1.763E-02	
8.38	8.38	46445.50	PV	0.081	6	2.220	ALDRIN ✓
8.79		33.42	VV	-----		1.003E-03	
9.90		796.21	BV	0.096		2.389E-02	
10.16		178.23	VV	0.119		5.347E-03	
11.20		62.34	VV	-----		1.070E-03	
11.34		35.70	VB	-----		1.071E-03	
12.22		458.17	BV	0.115		1.375E-02	
12.37		64.09	VB	0.112		1.923E-03	
3.43		74.48	BB	0.119		2.234E-03	
15.73	15.74	131.76	PV	-----	10	1.074E-02	PP-DDE ✓
16.02		57.88	VV	-----		1.736E-03	
16.38		38.82	VB	-----		1.165E-03	
17.78	17.69	155.59	BB	0.155	11	1.643E-02	ENDRIN <i>cc 3-13</i>
18.31		78.72	BB	0.175		2.362E-03	
19.24		434.12	BP	0.183*		1.302E-02	
20.81	20.76	377.83	BV	-----	13	4.739E-02	PP-DDD ✓
21.01		525.43	VV	-----		1.576E-02	
21.87		98.26	VP	-----		2.948E-03	
22.77		714.82	PB	0.230		2.144E-02	
23.96		23.09	BB	-----		6.927E-04	
24.78	24.98	355.46	BB	0.309	15	3.718E-02	ENDOSULF SULF <i>cc 3-13</i>
26.09		122.49	BV	-----		3.675E-03	
26.72	26.75	27067.10	VV	0.211	16	2.122	PP-DDT ✓
27.29		871.11	VV	-----		2.613E-02	
27.71		91.00	VB	-----		2.730E-03	
29.09		133.17	BB	0.265		3.995E-03	
30.80		634.29	BB	0.278		1.903E-02	
31.85		227.62	BB	0.267		6.829E-03	
34.06		75.02	PB	0.281		2.251E-03	
35.86		603.73	BV	0.229		1.811E-02	
36.75		384.92	VB	*-----		1.155E-02	
37.51		229.43	BB	-----*		6.883E-03	
38.93		36.67	BB	-----*		1.100E-03	
39.88	39.88	15761.50 +	BV	0.241	17	0.415	METHOXYCHLOR
41.35		1568.61	VV	0.269		4.706E-02	
41.88		137.83	VB	-----*		4.135E-03	
42.70		25.83	BB	-----		7.748E-04	
43.47		43.32	BB	-----		1.300E-03	
47.78	47.93	894.25	BV	0.365	18	8.601E-02	DIBUTYLCHLOR <i>3-17</i>
--		928.77	VV	0.339		8.950E-03	<i>cc</i>

31 001427

027593

171

12.37

16.02

39.88

027593

PR: AUTO SEQ  
OVEN TEMP NOT READY

Method Std. 15%  
Pest Analysis

RT: 20132 MAR 9 11:19:04  
KT: HTM # 215

1.29

2.15  
3.15  
3.85  
4.35

4.67

5.55  
6.58  
7.64  
8.81

10.17  
11.89  
12.23  
12.97

14.41  
15.40  
16.38

17.79  
18.52  
19.25

20.77  
21.88  
22.78

24.80  
26.88  
27.72

29.10  
30.82

31.87  
33.85  
34.88

OV: START PRGM RATE 1  
OVJS START FINAL TIME 1

36.76  
37.91  
38.91

39.88

41.87  
42.71  
43.48  
44.85

47.78  
48.77

OVJS START BRGRATE 20 MIN TIME 2

Methoxychlor IS

31 001428

027594

8 GRAPHIC COURTESY'S CORPORATION BUFFALO NEW YORK DC C-441 ZND/JP 9230 645

HPX 5880A SAMPLER INJECTION @ 20:32 MAR 9, 1984

SAMPLE # : 12 CODE :

6 METH STD 15

ESTICIDE MIX CALIBRATION CURVE

ESTD

*Pest*

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							BASELINE @ START RUN = 329.62
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
4.67	4.67	1281.00	BP	0.06 *	3	8.556E-02	G-BHC <i>cc 2-13</i>
5.00		23.25	PV	-----		6.974E-04	
6.07	6.00	162.54	VB	0.076	5	9.921E-03	HEPTACHLOR <i>cc 2-13</i>
7.77		168.02	PB	0.090		5.041E-03	
8.37	8.39	44.25	BB	0.084	6	3.013E-03	ALDRIN <i>cc 2-13</i>
10.17		96.62	BB	0.121		2.899E-03	
17.79	17.69	31.05	BB	0.150	11	3.270E-03	ENDRIN <i>cc 2-13</i>
19.25		77.92	BB	0.160		2.338E-03	
20.77	20.76	32.72	BB	-----	13	4.104E-03	PP-DDD <i>cc 2-13</i>
22.78		190.95	BB	0.223		5.729E-03	
24.00	24.98	86.88	BB	0.306	15	9.088E-03	ENDOSULFSULF <i>cc 2-13</i>
26.08		123.71	BV	0.274		3.711E-03	
26.72	26.75	403.83	VV	0.234	16	5.538E-02	PP-DDT <i>cc 2-13</i>
27.29		232.28	VV	-----		6.968E-03	
27.73		20.24	VB	-----		6.072E-04	
29.10		67.25	BB	0.291		2.018E-03	
30.82		254.86	BV	0.335		7.646E-03	
31.87		97.93	VV	-----		2.938E-03	
3.04		34.06	VV	-----		1.022E-03	
34.08		26.02	VB	-----		7.805E-04	
35.87		182.32	BV	-----		5.470E-03	
36.76		327.02	VV	*-----		9.811E-03	
37.51		187.69	VB	-----*		5.631E-03	
39.88	39.88	16451.40 +	BV	0.244	17	0.433	METHOXYCHLOR
41.36		527.32	VV	0.299		1.582E-02	
41.87		72.71	VV	-----*		2.181E-03	
47.78	47.93	209.49	BP	0.340	18	1.981E-02	DIBUTYLCHLOR <i>cc 2-13</i>
48.77		182.12	PB	0.303		5.401E-03	
50.00							RP: REJECT → 1E+06

31 001429

MULTIPLIER = 1

027595

PR: AUTO SEQ  
OVEN TEMP NOT READY

Method Std 50%  
Pest Analysis

BT: 21147 MAR 9 1984

RT: 0.89 MIN = 215

1.39  
2.39  
2.94  
4.27  
5.69  
7.77  
8.64  
9.38  
10.08  
11.08  
11.61  
12.27  
12.99  
13.88  
14.89  
15.49

16.64 17.64

19.25

20.71 21.34

22.78 23.35

24.82 25.26 26.09 26.73 27.27

29.13 30.00 30.83 31.89

33.20

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

36.77 37.53 38.13 39.23 39.88

41.36

31001430

44.96 46.22

47.88

48.77 027596

BT: SMART BRDRATE 20 - CM/MIN

15A

PERMANENT RECORDS INFORMATION BUREAU NEW YORK CC CCNY

REP 900P RUN

KAPZ 5880A SAMPLER INJECTION @ 21:47 MAR 9, 1984

SAMPLE # : ID CODE 1  
7 METH STD 50

ESTICIDE MIX CALIBRATION CURVE  
STD

*Pest*

RT EXP RT AREA TYPE WIDTH CAL AMOUNT NAME

BASELINE @ START RUN = 328.07  
THRESHOLD @ START RUN = -1  
PEAK WIDTH @ START RUN = 0.08  
RP: REJECT → 1E+06  
RP: REJECT → 20

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							
0.00							
0.00							
0.00							
3.50							
3.51		63.75	VV	-----*		1.912E-03	
3.67		29.81	VP	-----		8.643E-04	
4.14		35.40	BV	-----		1.062E-03	
4.27		489.53	VV	0.067		1.407E-02	
4.66	4.67	225.29	BV	0.062	3	1.842E-02	G-BHC CC 3-13
4.86		21.33	VP	-----		6.398E-04	
5.51		26.31	BV	*-----		7.894E-04	
5.69		2276.06	VV	0.066		6.828E-02	
5.87		90.21	VV	-----		2.706E-03	
6.13		31.50	VP	-----		9.449E-04	
6.69		74.15	VV	-----		2.225E-03	
6.88	6.88	43.27	VB	0.082	5	2.641E-03	HEPTACHLOR CC 3-13
7.19		58.64	BB	0.081		1.759E-03	
7.77		1565.02	VV	0.097		4.695E-02	
8.64		1283.29	PV	-----*		3.850E-02	
10.08		66.88	BB	0.145		2.007E-03	
2.99		24.64	BB	✓SYM		7.391E-04	
15.47	15.49	54201.20	PV	0.132*	9	2.810	DIELDRIN ✓
16.64		116.50	BB	0.141		3.495E-03	
17.64	17.69	45822.70	BB	0.15 *	11	3.011	ENDRIN ✓
19.25		92.73	BB	0.177*		2.782E-03	
20.71	20.76	84.82	BB	-----	13	1.064E-02	PP-DDD CC 3-13
21.34	21.33	676.46	BB	0.222	14	6.591E-02	ENDRALDEHYDE CC 3-13
22.78		170.19	BV	0.253		5.106E-03	
24.83	24.98	61.20	BV	0.293	15	6.401E-03	ENDOSULF Sulf CC 3-13
25.26		21.71	VB	-----		6.513E-04	
26.09		75.74	BP	-----*		2.272E-03	
26.73	26.75	172.93	PV	0.226	16	2.371E-02	PP-DDT CC 3-13
27.27		609.20	VB	0.287*		1.828E-02	
29.13		49.81	BB	0.275		1.494E-03	
30.83		116.20	BB	-----*		3.486E-03	
31.89		34.53	BB	0.237		1.036E-03	
33.20		1819.51	BB	0.292		5.459E-02	
35.88		58.85	BV	-----		1.766E-03	
36.77		118.72	VB	*-----		3.561E-03	
37.53		40.35	BV	-----*		1.211E-03	
39.88	39.88	22030.30	PV	0.242*	17	0.579	METHOXYCHLOR ✓
41.36		261.53	VB	0.274		7.846E-03	
46.22		1561.29	BB	0.287*		4.684E-02	
47.88	47.93	33776.50	BV	0.278	18	2.519	DIBUTYLCHLOR ✓
48.77		818.44	VB	-----*		2.455E-02	
3.00							

RP: REJECT → 1E+06

31 001431

MULTIPLIER = 1

027597

117

RESEARCH TRIANGLE INSTRUMENTS COMPANY, WIRELESS NEW YORK

PESTICIDE DATA REDUCTION FORM

Sample # B3570-MS  
 Final Vol 10 ml  
 Solid or Liquid L

Case # 2427  
 Sample #/Vol 1000-21  
 % Moisture NA

	Typical RI	Fraction	Dilution	Injection Conc. $\mu\text{g}/\text{ml}$	Light Box	Dilution	Injection Conc. $\mu\text{g}/\text{ml}$	Light Box	Expected Injection Conc.	Light Box	Second Column	Light Box	Percent Sample Recovered
☐ BHC	3.98	1											
☐ BHC	4.49	1											
☐ BHC	4.67	1		1.453	+				2.5		+		58%
☐ BHC	5.24	1											
Heptachlor	6.88	1		1.230	+				2.5		+		49%
Aldrin	8.38	1		1.448	+				2.5		+		58%
Heptachlor epoxide	10.57	1											
☐ Endosulfan	13.16	182											
Dieldrin	15.47	2		1.713	+				2.5		+		69%
P.p'-DDE	15.72	1											
Endrin	17.67	2		1.879	+				2.5		+		75%
B Endosulfan	18.77	3											
P.p'-DDD	20.74	1											
Endrin Aldehyde	21.30	283											
Endosulfan Sulfate	24.95	3											
P.p'-DDT	26.72	1		1.509	+				2.5		+		60%
DDC	47.87	1,2,5		1.665	+				2.5		+		67%

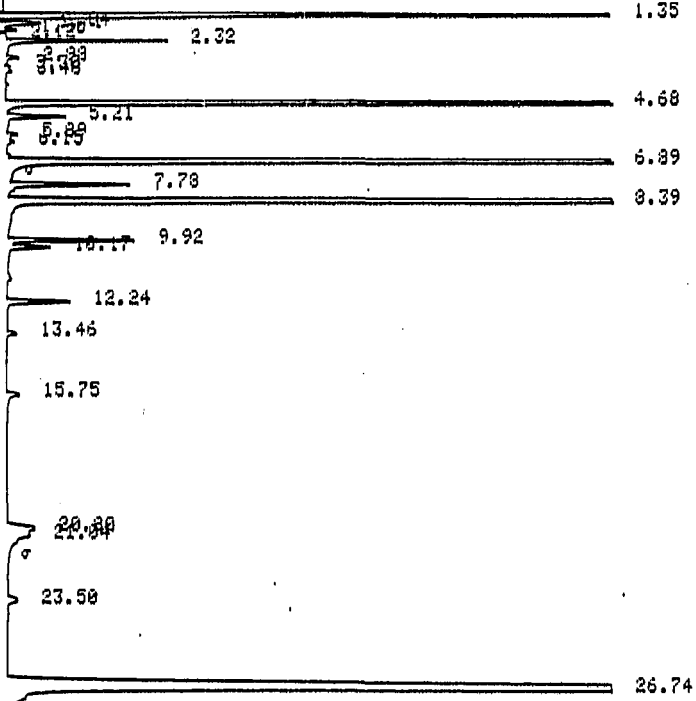
31 001432

027598

EDIT AUTO SEQ 8.4  
PR: AUTO SEQ

R 3570 MS 6%  
Pest Analysis

RT: 09:02 MAR 14 1988 215



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

39.88 *Methoxychlor IS*

48.78

RT: 09:02 MAR 14 1988 215  
START RATE 20 CM/MIN  
START FINAL TIME 2

31 001433

027599

101

EXP 5880A SAMPLER INJECTION @ 09:07 MAR 14, 1984

SAMPLE # : ID CODE :

1 R3579 MS 6

PESTICIDE MIX CALIBRATION CURVE *Pest*

STD

RT EXP RT AREA TYPE WIDTH CAL AMOUNT NAME

0.00 BASELINE @ START RUN = 309.73  
0.00 THRESHOLD @ START RUN = 3  
0.00 PEAK WIDTH @ START RUN = 0.08  
0.00 RP: REJECT + 1E+06  
3.50 RP: REJECT + 20

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
4.68	4.67	34867.60	VV	0.060	3	1.453	G-BHC ✓
5.21	5.24	286.68	VV	0.106	4	2.660E-02	<del>G-BHC</del> ✓
5.89		27.35	BB	-----		8.206E-04	
6.15		21.86	PP	-----		6.559E-04	
6.89	6.88	27220.40	VV	0.07	5	1.230	HEPTACHLOR ✓
7.78		530.65	VV	0.099		1.592E-02	
8.39	8.38	30289.60	BB	0.079	6	1.448	ALDRIN ✓
9.92		527.30	BV	0.096		1.582E-02	
10.17		199.44	VB	0.109		5.983E-03	
12.24		318.35	BB	0.114		9.551E-03	
13.46		52.00	PB	0.119		1.560E-03	
15.75	15.74	80.28	BB	0.149	10	6.542E-03	<del>PP-DDE</del> ✓
20.80	20.76	274.88	BV	-----	13	3.448E-02	<del>PP-DDT</del> ✓
21.04		302.86	VV	-----		9.086E-03	
23.50		94.76	VP	0.204		2.843E-03	
26.74	26.75	17762.90	BB	0.210*	16	1.509	PP-DDT ✓
29.88	39.86	147.41 +	BB	0.234	17	3.877E-03	METHOXYCHLOR ✓
33.78		108.53	BB	0.305		3.256E-03	
50.00							RP: REJECT + 1E+06

MULTIPLIER = 1

31 001434

027600

162



PR: AUTO SEQ  
OVEN TEMP NOT READY

R3570 MS 15%  
Pest Analysis

STI 10114 MAR 14 1984  
RT: ATTA # 215  
1.29

5.99 4.68  
6.88  
7.78  
8.38

10.17

23.55

26.76  
27.58

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

31 001435

027601

48.83  
OV: START RESORATA 20 CM/MIN  
OV: START FINAL TIME 2  
57.55

163

HPX 5880A SAMPLER INJECTION @ 10:14 MAR 14, 1984

SAMPLE # : ID CODE :

2 R3570 MS 15

REF NOT FOUND  
METHOD ABORTED

AREA %

*Pest*

RT	AREA	TYPE	WIDTH	HEIGHT	BASELINE	AREA %
0.00						
0.00						
0.00						
0.00						
3.50						
4.68	1415.42	PB	0.057	306.55	312.45	47.747
5.89	27.65	PV	-----	6.19	311.91	0.933
5.98	29.85	VV	-----	6.40	311.98	1.007
6.88	258.17	VB	0.076	52.90	312.68	8.709
7.78	352.45	BB	0.095	57.88	312.96	11.890
8.38	140.97	BB	0.086	25.53	312.29	4.755
10.17	46.51	BB	0.111	6.53	312.25	1.569
23.55	54.47	BB	0.205	4.16	311.54	1.837
26.76	434.81	BV	0.227	29.93	311.34	14.668
27.30	92.84	VB	-----	5.50	311.66	3.132
48.83	111.25	BB	0.309	5.64	310.28	3.753
50.00						

BASELINE @ START RUN = 311.72

THRESHOLD @ START RUN = 3

PEAK WIDTH @ START RUN = 0.08

RP: REJECT + 1E+06

RP: REJECT + 20

RP: REJECT + 1E+06

TOTAL AREA = 2964.39

MULTIPLIER = 1

31001436

027602

164

Exp] 5880A SAMPLER INJECTION @ 11:20 MAR 14, 1984

SAMPLE # : ID CODE :

3 R3570 MS 50

REF NOT FOUND

METHOD ABORTED

AREA %

RT	AREA	TYPE	WIDTH	HEIGHT	BASELINE	AREA %
0.00					BASELINE @ START RUN = 311.29	
0.00					THRESHOLD @ START RUN = 3	
0.00					PEAK WIDTH @ START RUN = 0.00	
0.00					RP: REJECT → 1E+06	
3.50					RP: REJECT → 20	
3.52	117.36	YV	-----	20.71	317.01	0.116
4.14	95.91	PV	-----	16.57	311.29	0.095
4.27	1021.28	YV	0.071	224.02	310.58	1.010
4.45	86.19	YV	-----	13.07	309.60	0.085
4.59	66.61	YV	-----	14.12	308.04	0.066
4.67	205.91	YV	-----	43.23	308.36	0.204
5.52	165.83	PV	*-----	21.34	305.06	0.164
5.69	4747.64	YV	0.068	1086.93	306.07	4.694
5.88	272.35	YV	-----	32.59	307.14	0.269
6.15	121.68	YV	-----	11.67	308.74	0.120
6.53	83.64	YV	-----	8.36	311.02	0.083
6.69	180.99	YV	-----	23.98	311.95	0.179
6.80	53.82	YV	-----	7.69	313.05	0.053
7.19	72.87	YB	-----	9.20	314.09	0.072
7.52	36.13	BP	0.077	7.32	315.88	0.036
7.70	2399.36	PV	0.098	394.42	315.64	2.372
7.65	1240.47	YV	0.21 *	91.93	315.22	1.227
9.08	115.07	YV	-----	11.46	314.53	0.114
11.25	52.36	BB	0.104	7.86	314.31	0.052
15.48	33079.90	PB	0.131	3951.55	313.58	32.709 <i>Dieldrin</i>
16.65	77.70	BB	0.142	8.61	314.57	0.077
17.66	28624.60	BV	0.152	2953.35	312.60	28.303 <i>Endrin</i>
20.72	271.83	BV	0.212	20.04	312.78	0.269
21.35	487.15	YB	0.244	31.20	313.05	0.482
23.52	65.01	BB	0.219	4.64	312.10	0.064
26.74	172.82	BV	-----	11.42	309.46	0.171
27.28	898.97	YB	0.280	50.28	310.55	0.889
33.24	1158.76	BB	0.290	60.93	310.95	1.146
40.46	80.64	YB	0.240	5.26	309.98	0.080
46.25	1014.60	BB	0.204	55.09	309.50	1.003
47.91	22604.00	BV	0.286	1238.34	310.57	22.351
48.80	1462.21	YB	0.324	70.60	311.54	1.446
50.00					RP: REJECT → 1E+06	

TOTAL AREA = 101135.00  
MULTIPLIER = 1

OUT OF PAPER  
EDIT AUTO SEQ 0,9  
AUTO SEQ  
OVEN TEMP NOT READY

31001438

027603

RT: 12:27 MAR 14 1984  
RT: ATTN = 215

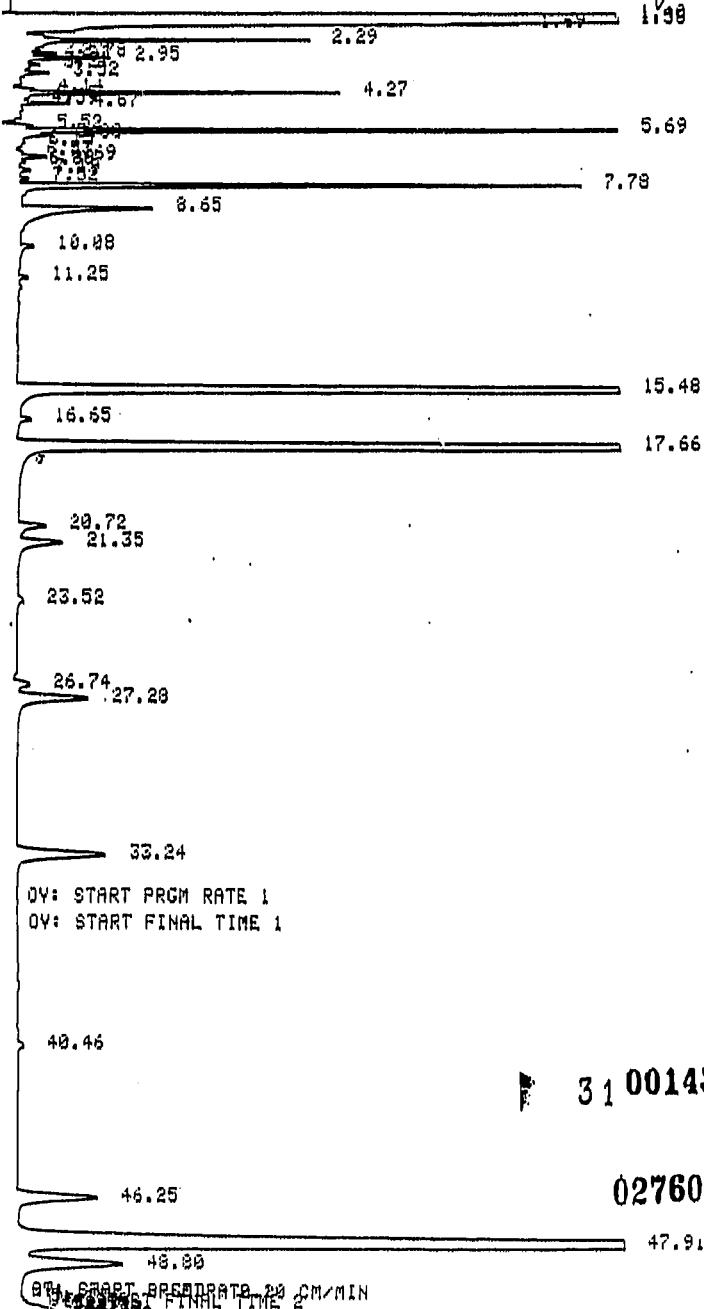
1.29

166

PR: AUTO SEQ  
OVEN TEMP NOT READY

R 3570 MS 50%  
Pest Analysis

RT: 11:20 MAR 14 1984  
RT: ATTN = 245



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

31 001437

027604

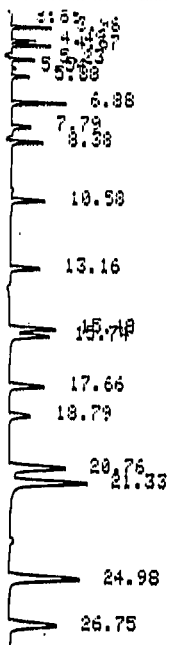
47.91

DBC  
-SS

OV: START PRGM RATE 20 CM/MIN  
OV: START FINAL TIME 2

GC 8274VZKZ01J10 9270 6035

165



OV: START FROM RATE 1  
 OV: START FINAL TIME 1

BT: START BREED RATE 20 CM/MIN  
 DV: START FINAL TIME 2  
 RT: STOP RUN

5880A SAMPLER INJECTION @ 12:27 MAR 14, 1984  
 SAMPLE # : ID CODE :  
 5 P630 0.01MIX  
 REF NOT FOUND  
 METHOD ABORTED  
 AREA %

31001439  
 027605

167

0.00  
0.00  
0.00  
0.00  
3.50  
3.98  
4.49  
4.67  
5.23  
5.88  
6.88  
7.79  
8.38  
10.58  
13.16  
15.48  
15.74  
17.66  
18.79  
20.76  
21.33  
24.98  
26.75  
50.00

59.47  
74.85  
126.86  
104.36  
64.21  
181.87  
91.45  
142.82  
152.39  
157.35  
267.86  
245.59  
235.72  
159.18  
593.97  
729.85  
675.29  
469.63

BV  
BV  
VV  
BB  
BV  
VB  
BB  
BB  
BB  
BV  
VB  
BB  
BB  
BV  
VB  
BB  
BB

BASELINE @ START RUN = 309.62  
THRESHOLD @ START RUN = 3  
PEAK WIDTH @ START RUN = 0.08  
RP: REJECT → 1E+06  
RP: REJECT → 20

0.055  
0.067  
0.068  
-----  
0.075  
0.076  
0.103  
0.094  
0.102  
0.120  
0.138  
0.146  
0.154  
0.165  
0.205  
0.217  
0.220  
0.226  
28.21  
17.48  
29.01  
18.84  
13.40  
37.49  
13.90  
23.76  
23.44  
20.47  
38.35  
26.35  
24.01  
15.07  
38.49  
52.64  
48.16  
32.51  
308.67  
308.22  
306.99  
306.61  
308.74  
309.09  
309.19  
307.18  
308.77  
308.25  
308.97  
309.06  
307.89  
307.81  
308.02  
308.58  
308.12  
308.22  
2.219  
1.670  
2.830  
2.328  
1.432  
4.057  
2.040  
3.106  
3.400  
3.510  
5.975  
5.479  
5.258  
3.551  
11.242  
16.281  
15.064  
10.477

RP: REJECT → 1E+06

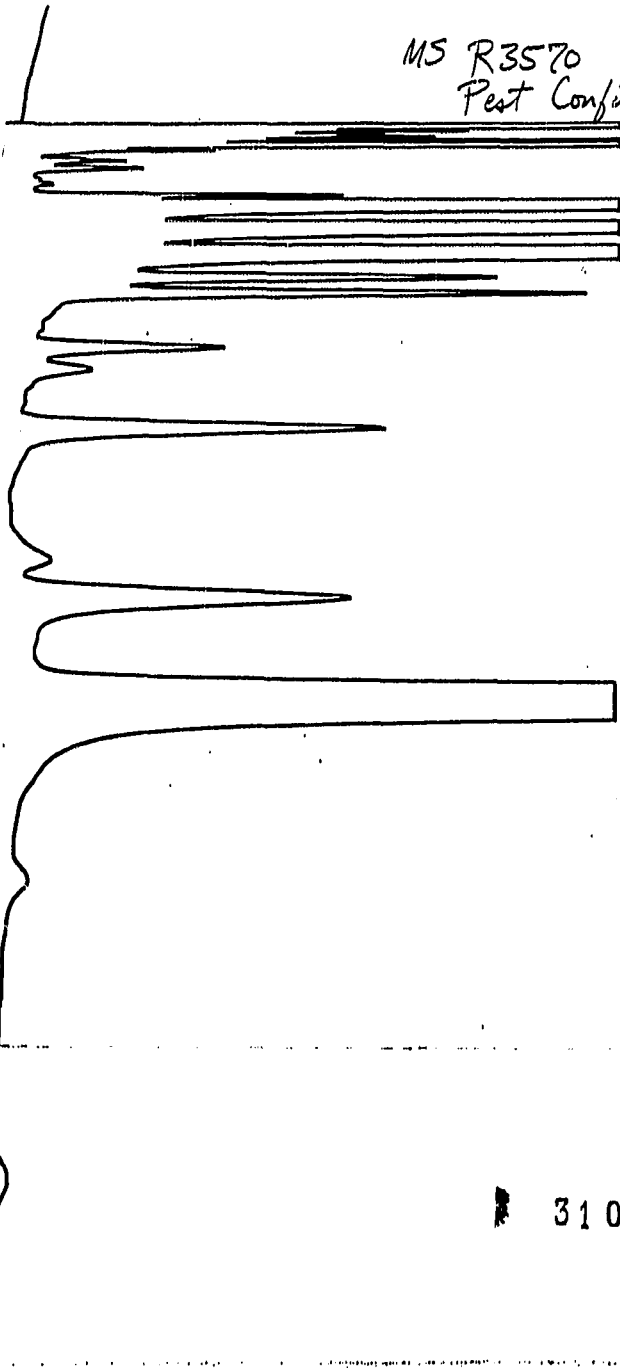
TOTAL AREA = 4482.72  
MULTIPLIER = 1

PR: STOP PROGRAM AT LINE 252

31 001440

027606

MS R3570 6%  
Pest Confirmatory



31 001441

027607

PORT # 89 13 MAR 1984 23:15 WEST

CHANNEL: 0 METHOD: REST BOTTLE: 8

SAMPLE: R3570 MS 6% INJECTED ON: 13 MAR 1984 22:25

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

RT	ITM	FACTOR	AREA	HREA%	NAME
.58		1.00000	291806 BY	4.051	
.80		1.00000	12078 VV	.168	
.93		1.00000	6449 VV	.090	
1.02		1.00000	12267 VV	.170	
1.14		1.00000	14747 VV	.205	
1.27		1.00000	26609 VV	.369	
1.35		1.00000	42466 VV	.589	
1.52		1.00000	7015 VV	.097	
1.83		1.00000	1710 VV	.024	
1.93		1.00000	4016 VV	.056	
2.20		1.00000	7024 VV	.098	
2.60		1.00000	1505 VV	.021	
2.77		1.00000	2623 VV	.036	
3.22		1.00000	13085 VV	.182	
4.53		1.00000	1814242 VV	25.192	
4.38		1.00000	1528634 VV	21.219	
5.32		1.00000	1908538 VV	26.493	
6.28		1.00000	42595 VV	.591	
6.88		1.00000	54744 VV	.760	
8.13		1.00000	3947 VV	.055	
8.92		1.00000	24456 VV	.339	
9.73		1.00000	15130 VV	.210	
10.93		1.00000	2590 VV	.036	
11.95		1.00000	57643 VV	.800	
14.98		1.00000	1358 VV	.019	
16.87		1.00000	12761 VV	.177	
18.31		1.00000	79808 VV	1.108	
22.16		1.00000	1192706 VV	16.556	
28.86		1.00000	10574 VB	.147	
40.09		1.00000	7369 BY	.102	
43.74		1.00000	2862 VB	.040	

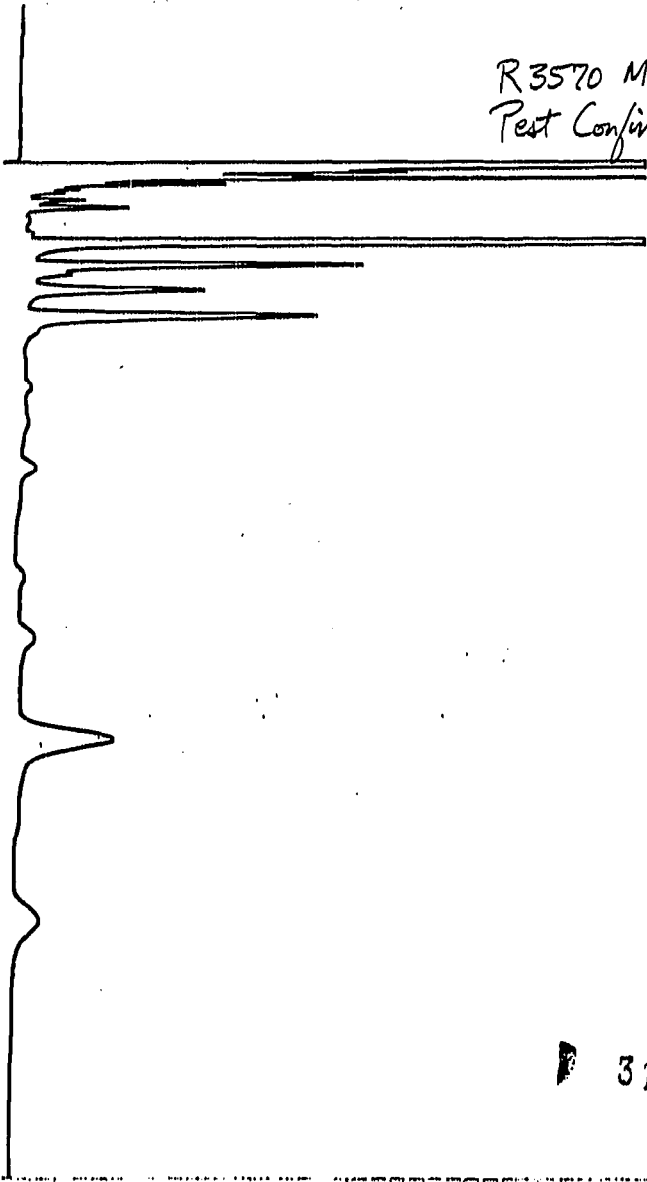
TOTAL AREA = 7203957

31 001442

027608



R3570 MS <sup>MS</sup> 15%  
Pest Confirmatory



31001443

027609

REPORT #: 90 14 MAR, 1984 0:08 PEST  
CHANNEL: 0 METHOD: PEST BOTTLE: 9

SAMPLE: R3570 MS 15% INJECTED ON: 13 MAR, 1984 23:18

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

NO REF PK FOUND

RT	ITM	FACTOR	AREA	HREF%	NAME
.58		1.00000	87867 YV	21.869	
.73		1.00000	26082 YV	6.492	
.92		1.00000	8646 YV	2.152	
1.06		1.00000	7347 YV	1.829	
1.14		1.00000	17242 YV	4.292	
1.35		1.00000	5179 YV	1.289	
1.51		1.00000	1513 YV	.377	
1.63		1.00000	1622 YV	.404	
1.93		1.00000	2296 YV	.572	
2.20		1.00000	3795 YV	.945	
2.53		1.00000	132798 YV	33.038	
4.37		1.00000	17496 YV	4.355	
4.69		1.00000	2490 YV	.620	
5.31		1.00000	11831 YV	2.945	
6.28		1.00000	22931 YV	5.707	
8.92		1.00000	1016 VB	.253	
10.17		1.00000	949 BB	.236	
11.93		1.00000	2094 BB	.521	
15.02		1.00000	1062 BB	.265	
18.31		1.00000	3385 BB	.842	
22.15		1.00000	25326 BB	6.303	
28.92		1.00000	9066 BB	2.256	
40.16		1.00000	9800 BB	2.439	

TOTAL AREA = 401777

31001444

027610

R3570 MS 50%  
Pest Confirmatory



31 001445

027611

REPORT # 91 14 MAR, 1984 1:01 PEST

CHANNEL: 0 METHOD: PEST BOTTLE: 10

SAMPLE: R3570 MS 50% INJECTED ON: 14 MAR, 1984 0:10

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

NO REF PK FOUND  
ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA%	NAME
.60		1.00000	2129058 BS	25.090	
.89		1.00000	63737 IT	.751	
1.14		1.00000	42241 IT	.498	
1.51		1.00000	632 IV	.007	
1.61		1.00000	3529 YI	.042	
1.93		1.00000	2413 IV	.028	
2.21		1.00000	15000 VV	.177	
2.57		1.00000	2871 VI	.034	
3.09		1.00000	863 IV	.010	
3.54		1.00000	52146 YI	.615	
4.48		1.00000	9291 IV	.109	
5.12		1.00000	292294 VV	3.445	
6.27		1.00000	102031 VV	1.202	
6.71		1.00000	84667 VV	.998	
8.12		1.00000	2593 YI	.031	
9.12		1.00000	1208 IT	.014	
10.14		1.00000	584 IT	.007	
12.29		1.00000	2060198 VV	24.278	
15.00		1.00000	1853912 VV	21.847	
22.13		1.00000	22419 VV	.264	
23.56		1.00000	49855 VV	.588	
28.87		1.00000	61433 VV	.724	
32.19		1.00000	6358 VV	.075	
35.33		1.00000	99864 VV	1.177	
39.65		1.00000	1526527 VV	17.989	

TOTAL AREA = 8485724

31 001446

027612

PESTICIDE DATA REDUCTION FORM

Case # 2427  
 Sample Wt/Vol 1.0000g/L  
 % Moisture NA

Sample # R3570-D45  
 Final Vol 10ml  
 Solid or Liquid L

	Typical RI	Fraction	Dilution	Injection $\mu\text{g}/\text{ml}$	Light Box	Dilution	Rerun	Expected Injection Conc.	Light Box	Second Column	Lgt. Box	% Sample Same R.S.L.
α BHC	3.98	1										
β BHC	4.49	1										
γ BHC	4.67	1		2.652				2.5		NO		106%
δ BHC	5.24	1		0.03589				2.5				94%
Heptachlor	6.89	1		2.359				2.5				105%
Aldrin	8.38	1		2.615								
Heptachlor epoxide	10.57	1										
α Endosulfan	13.16	1&2										
Dieldrin	15.47	2		3.38				2.5		NO		135%
D.P'-DDE	15.72	1		0.0454				2.5				92%
Endrin	17.67	2		2.30								
β Endosulfan	18.77	3								NO		
D.P'-DDD	20.74	1		0.064						NO		
Endrin Aldehyde	21.30	2&3		0.39								
Endosulfan Sulfate	24.95	3										
D.P'-DDT	26.72	1		2.763				2.5				111%
DDE	47.87	1,2&3		3.27				2.5				131%

31001447  
 227212

EDIT AUTO SEQ 8.67  
PR: AUTO SEQ  
OVEN TEMP NOT READY

R 3570 DMS 68  
Pest Analysis

RT: 03:41 MAR 12 1984  
RT: ATTN = 215

1.34  
2.32

4.67  
5.20

6.07  
8.38  
9.90

12.22  
13.54  
13.81

15.8673  
16.36  
19.22  
19.93  
20.00

23.99  
24.95  
26.07  
26.73

30.97  
OV: START PRGM RATE 1  
OV: START FINAL TIME 1  
39.13  
39.89

45.00  
48.28  
48.78  
027614  
31 001448  
OV: START SPEED RATE 20 CM/MIN  
OV: START FINAL TIME 2

078

0

757587

CCP-USA70781

*Methoxychlor*  
*LIS*

REP] 5380A SAMPLER INJECTION @ 03:41 MAR 12, 1984

SAMPLE # 1 ID CODE :

64 R3570 DMS 6

PESTICIDE MIX CALIBRATION CURVE  
ESTD

RT EXP RT AREA TYPE WIDTH CAL AMOUNT NAME

0.00 BASELINE @ START RUN = 313.95  
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

4.67	4.67	63646.90	BV	0.06	3.	2.652	G-BHC✓
5.20	5.24	300.23	VV	*0.009*	4	3.589E-02	D-BHC
5.90		21.35	BV	-----		0.465E-04	
6.04		23.59	VV	-----		7.078E-04	
6.14		53.70	VP	-----		1.611E-03	
6.87	6.88	52189.00	VV	0.07 *	5	2.359	HEPTACHLOR✓
7.52		49.36	VV	-----		1.401E-03	
7.77		201.54	VV	0.101		6.046E-03	
8.30	8.39	54703.10	BV	0.002*	6	2.615	ALDRIN✓
9.04		39.16	VV	-----		1.175E-03	
9.90		943.25	BV	0.096		2.830E-02	
10.17		308.26	VV	0.119		9.248E-03	
11.35		33.62	VB	-----		1.009E-03	
12.22		555.40	BB	0.115		1.666E-02	
13.44		87.18	PB	0.120		2.615E-03	
13.81		21.09	BP	-----*		6.326E-04	
15.73	15.75	178.42	PB	-----*	10	1.454E-02	PP-DDE✓
20.80	20.77	509.56	BV	-----	13	6.412E-02	PP-DDD✓
21.02		634.55	VB	-----*		1.904E-02	
23.99		34.45	BB	0.202		1.033E-03	
26.73	26.76	75.65	BV	-----		2.270E-03	
26.73	26.76	36798.70	VV	0.22 *	16	2.763	PP-DDT✓
30.97		67.61	BV	*-----*		2.028E-03	
39.89	39.89	19274.40 +	BB	0.24 *	17	0.507	METHOXYCHLOR✓
48.79		37.74	VB	-----*		1.132E-03	
50.00							

RP: REJECT → 1E+06

MULTIPLIER = 1

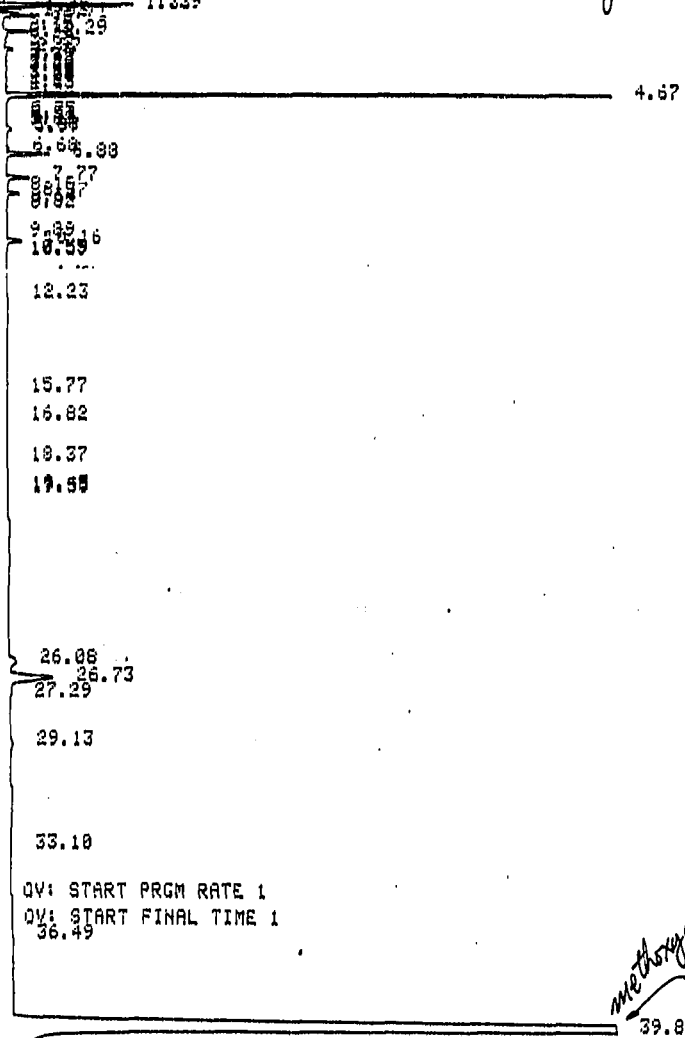
31 001449

027615

PR: AUTO SEQ  
OVEN TEMP NOT READY

R 3570 DMS 15%  
Pest Analysis

RT: 0415: MAR 12 1984  
XT: ATTN = 215  
11329



QV: START PRGM RATE 1  
QV: START FINAL TIME 1  
36.49



48.80  
BY: START BREEDRATE 10 CM/MIN  
QV: START FINAL TIME 2

31 001450

027616



RT: STOP RUN

HPX 5880A SAMPLER INJECTION @ 04:51 MAR 12, 1984

SAMPLE # : ID CODE :

65 R3570 DMS 15

PESTICIDE MIX CALIBRATION CURVE  
STD

*Pest*

100

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
0.00							BASELINE @ START RUN = 317.03
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
4.67	4.67	1879.73	VP	-----*	3	0.117	<i>VP</i>
6.88	6.88	145.30	VB	0.077	5	8.869E-03	HEPTACHLOR
7.77		92.14	BB	0.094		2.764E-03	
8.37	8.37	47.13	FB	0.087	6	3.209E-03	ALDRIN
10.16		75.53	BB	0.113		2.266E-03	
26.08		86.76	BV	-----*		2.603E-03	
26.73	26.76	423.73	VB	0.224	16	5.811E-02	<i>PP-DAT</i>
29.13		35.21	BB	0.295		1.056E-03	
39.89	39.89	23846.60	BY	0.24 *	17	0.627	METHOXYCHLOR
48.00		24.10	BB	*-----*		7.229E-04	
50.00							RP: REJECT → 1E+06

MULTIPLIER = 1

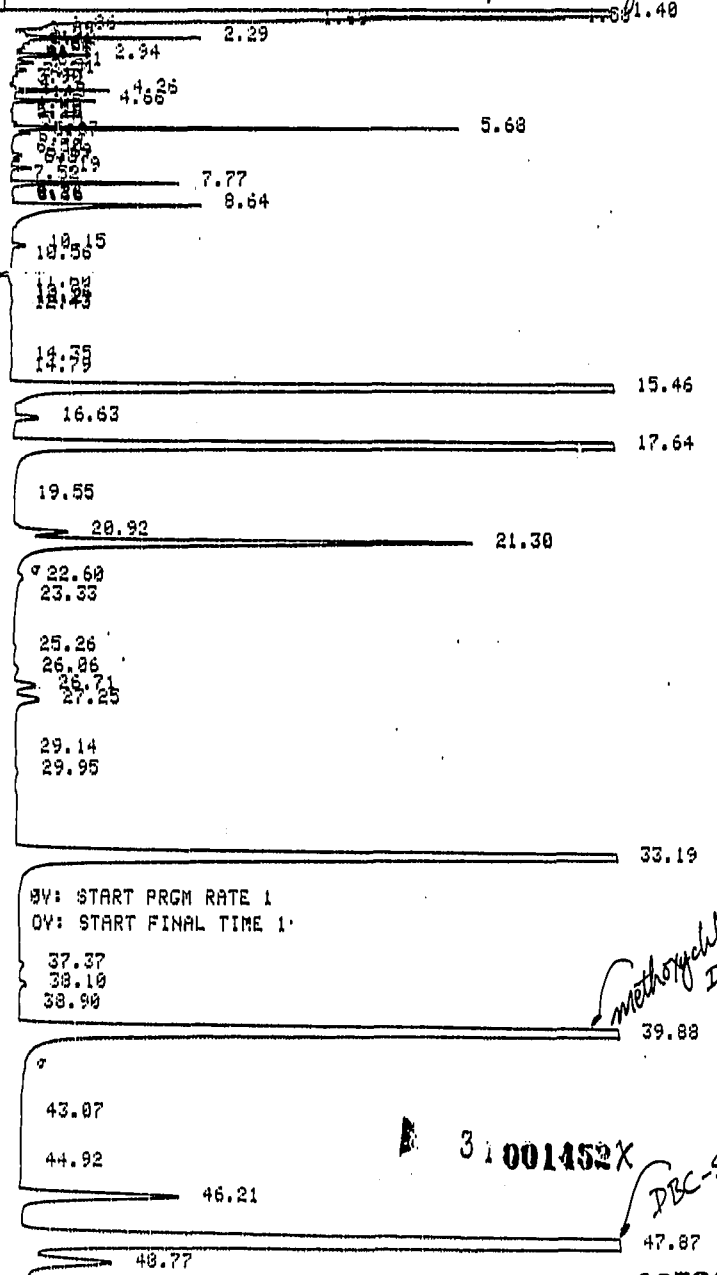
CHROMATOGRAPHY DEPARTMENT  
METSCLAIR INSTRUMENTS  
METSCLAIR, NEW YORK  
CF-CV-100-717

31 001451  
027617

OVEN TEMP NOT READY

R 3570 DMS 50%  
Pest Analysis

RT: 06101 MAR 12 1984  
RT: RTIN = 245



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

37.37  
38.10  
38.90

*Methoxychlor IS*

39.88

31001452X

*PBC-SS*

47.87

BY: START PRGM RATE 2  
OV: START FINAL TIME 2

027618

082

DEPT. OF CONTRACTS CONTROL DIVISION BUFFALO NEW YORK

7-2071355-RUN

EXP 5880A SAMPLER INJECTION 0.06:01 MAR 12, 1984

SAMPLE # : ID CODE :  
66 R3570 DMS 50

*Pest*

PESTICIDE MIX CALIBRATION CURVE  
STD

RT EXP RT AREA TYPE WIDTH CAL AMOUNT NAME

0.00 BASELINE @ START RUN = 319.84  
0.00 THRESHOLD @ START RUN = -1  
0.00 PEAK WIDTH @ START RUN = 0.00  
3.50 RP: REJECT → 1E+06  
3.51 RP: REJECT → 20

RT	EXP RT	AREA	TYPE	WIDTH	CAL	AMOUNT	NAME
3.51		101.96	VV	-----		3.059E-03	
3.67		64.98	VV	-----		1.950E-03	
3.90		35.81	VV	-----		1.074E-03	
4.10		36.69	VV	*-----		1.101E-03	
4.26		306.17	VV	0.070		9.185E-03	
4.45	4.49	36.84	VV	-----	2	3.875E-03	
4.66	4.67	255.33	VV	0.067	3	2.096E-02	
4.85		21.35	VP	-----		6.404E-04	
5.51		27.97	BV	*-----		8.391E-04	
5.68		1283.36	VV	0.066		3.850E-02	
5.87		82.20	VV	-----*		2.466E-03	
6.69		58.64	VV	-----		1.759E-03	
6.87	6.88	35.26	VB	0.079	5	2.152E-03	HEPTACHLOR
7.19		73.06	BB	0.080		2.216E-03	
7.77		705.73	BV	0.096		2.117E-02	
8.64		1614.36	VV	0.19 *		4.843E-02	
10.15		74.27	BV	0.120		2.228E-03	
15.46	15.49	65282.90	BP	0.134*	9	3.384	DIELDRIN ✓
5.63		151.88	BB	0.147*		4.556E-03	
17.64	17.69	35036.50	BB	0.15 *	11	2.302	ENDRIN ✓
20.92	20.76	469.08	BV	*-----	13	5.884E-02	PP-PPP <<
21.30	21.33	4406.35	VP	0.22	14	0.385	ENDRALDEHYDE ✓
22.60		85.43	BV	-----		2.563E-03	
25.26		24.93	BB	-----		7.479E-04	
26.06		64.67	BP	0.273		1.940E-03	
26.71	26.76	282.44	PV	0.227	16	2.776E-02	PP-DT <<
27.25		284.89	VB	0.275		8.547E-03	
29.14		27.15	BB	0.292		8.144E-04	
29.95		41.13	BB	0.253		1.234E-03	
33.19		15367.50	BV	0.28 *		0.461	
37.37		55.69	BP	0.233*		1.671E-03	
38.10		72.67	PB	0.233		2.180E-03	
39.88	39.88	24943.00 +	BV	0.246*	17	0.656	METHOXYCHLOR ✓
43.07		44.29	BB	*-----*		1.329E-03	
46.21		1979.09	BB	0.285*		5.937E-02	
47.87	47.93	44395.80	BV	0.284	18	3.268	DIBUTYLCHLOR ✓
48.77		1362.29	VB	0.35 *		4.087E-02	

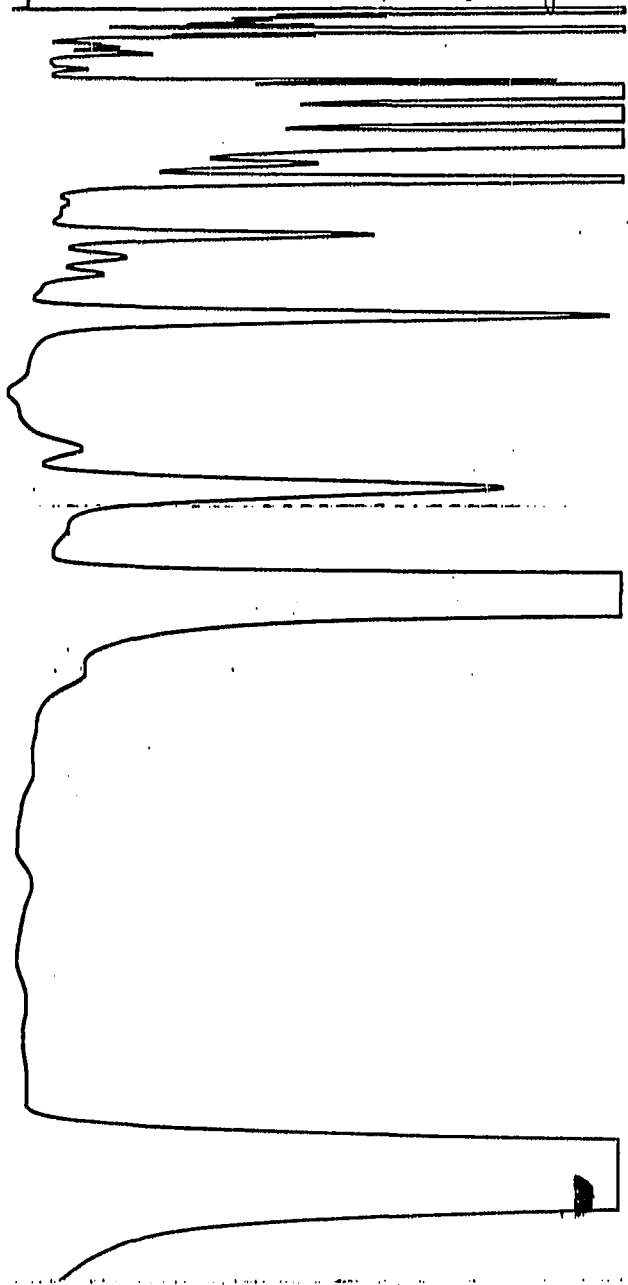
RP: REJECT → 1E+06

MULTIPLIER = 1

027619

31001453

DMS R3570 62  
Pest Analysis



31 001454

B X

027620

REPORT # 81 13 MAR, 1984 5:29 PEST  
 CHANNEL: 0 METHOD: PEST BOTTLE: 13  
 SAMPLE: R3570 5% DMS INJECTED ON: 13 MAR, 1984 4:39

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

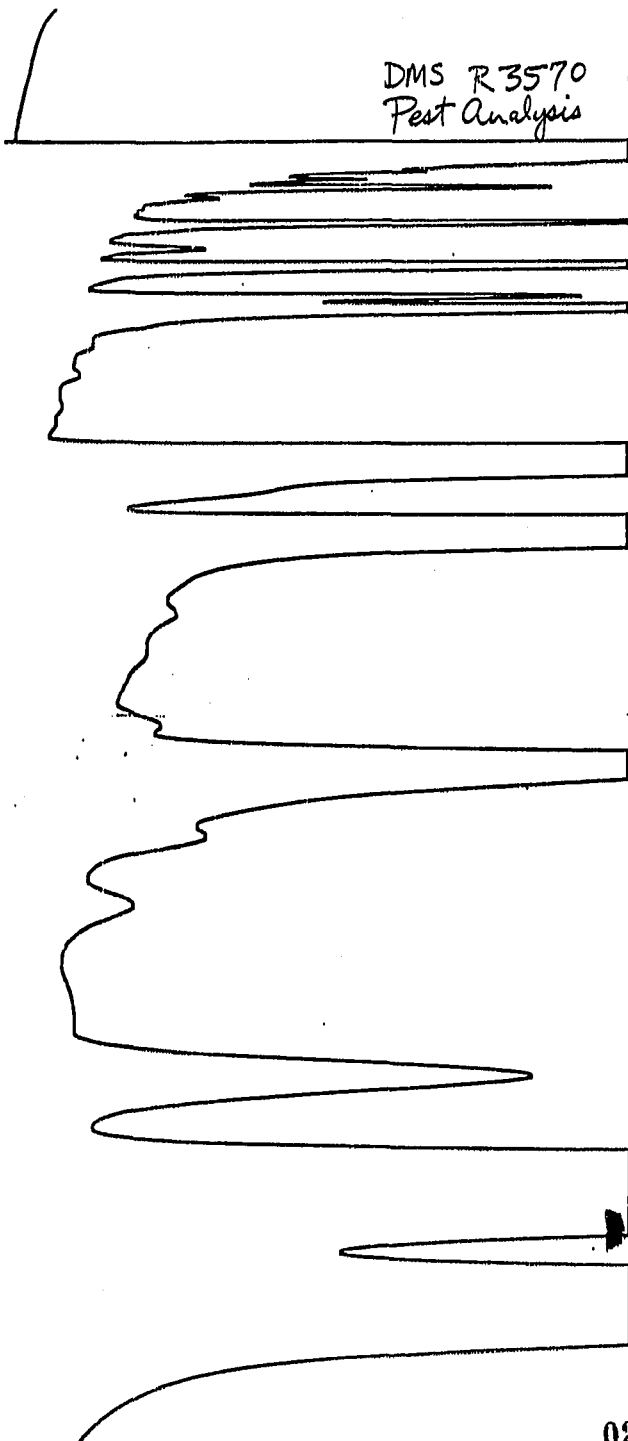
RT	ITM	FACTOR	AREA	AREA%	NAME
.59		1.00000	303467 YV	2.243	
.83		1.00000	9608 YV	.071	
.93		1.00000	3707 YV	.027	
.99		1.00000	8014 YV	.059	
1.15		1.00000	5726 YV	.042	
1.28		1.00000	14943 YV	.110	
1.37		1.00000	67838 YV	.501	
1.54		1.00000	8730 YV	.065	
1.85		1.00000	2165 YV	.016	
1.99		1.00000	4026 YV	.030	
2.21		1.00000	8204 YV	.061	
2.79		1.00000	5876 YV	.043	
3.24		1.00000	20531 YV	.152	
3.55		1.00000	2962577 YV	21.896	
4.41		1.00000	2693361 YV	19.908	
5.36		1.00000	3174717 YV	23.467	
5.33		1.00000	29665 YV	.219	
5.94		1.00000	85055 YV	.629	
7.75		1.00000	11918 YV	.088	
8.99		1.00000	40533 YV	.300	
9.82		1.00000	15378 YV	.114	
10.46		1.00000	14705 YV	.109	
12.04		1.00000	92735 YV	.685	
17.02		1.00000	20397 YV	.151	
18.45		1.00000	121366 YV	.897	
22.33		1.00000	2229421 YV	16.479	
25.36		1.00000	32040 YV	.237	
29.01		1.00000	9059 YV	.067	
33.26		1.00000	7932 YV	.059	
37.77		1.00000	2492 YV	.018	
40.64		1.00000	737 YV	.005	
44.13		1.00000	1521791 BF	11.249	

TOTAL AREA = 13528714

31001455

027621

DMS R3570 50%  
Pest Analysis



31001456

X

027622

REPORT # 82 13 MAR, 1984 6:22 PEST

CHANNEL: 0 METHOD: PEST BOTTLE: 14

SAMPLE: R3570 50% DMS INJECTED ON: 13 MAR, 1984 5:32

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

NO REF PK FOUND  
ENDED NOT ON BL

RT	ITM	FACTOR	AREA	HR%	NAME
.61		1.00000	1119060 BY	7.731	
.90		1.00000	170927 YY	1.181	
1.15		1.00000	104695 YY	.723	
1.63		1.00000	24477 YY	.169	
1.94		1.00000	17135 YY	.118	
2.24		1.00000	33448 YY	.231	
2.60		1.00000	26787 YY	.185	
3.56		1.00000	56306 YY	.389	
4.49		1.00000	19375 YY	.134	
5.15		1.00000	116402 YY	.804	
5.32		1.00000	39426 YY	.272	
7.76		1.00000	129336 YY	.893	
7.17		1.00000	3562 YB	.025	
10.34		1.00000	1215 BY	.008	
12.38		1.00000	3908641 YY	27.001	
15.10		1.00000	2219413 YY	15.332	
18.14		1.00000	88008 YY	.608	
22.31		1.00000	24877 YY	.172	
23.76		1.00000	366572 YY	2.532	
26.44		1.00000	44327 YY	.306	
29.07		1.00000	26663 YY	.184	
33.28		1.00000	4961 YY	.034	
35.55		1.00000	174545 YY	1.206	
39.81		1.00000	3752585 YY	25.992	
44.10		1.00000	1992949 YF	13.768	

TOTAL AREA = 14475694

31001457

027623

LOW LEVEL WATERS EXTRACTION AND CONCENTRATION: PEST AND ICDD

Case 2427 Extraction Chemist RSD Matrix Spike Solution Surrogate Solution  
 Date 2-20-84 Concentration Chemist RSD Pest P714 Pest P714  
 ICDD P634 ICDD P634

EPA #	Sample Volume	Spike Volumes		MCl <sub>2</sub> Vol.	Date	Final Hexane Vol:	Vol to Pest	Vol to ICDD	Pest Final Vol.			ICDD Final Vol
		Surr.	MS						6%	15%	50%	
R3545	100ml	10ml	-	200ml	2-20-84	10ml	2ml	2ml	2ml	2ml	2ml	60ml 85ml 100ml
R3546												
R3563												
R3564												
R3565												
R3566												
R3567												
R3568												
R3569												
R3570	800ml											
R3571	780ml											
R3572	100ml											
R3573												
R3574												

31001458

242624



LOW LEVEL MATERS EXTRACTION AND CONCENTRATION: PEST AND TCDD

Case 2427 Extraction Chemist RGD Matrix Spike Solution Surrogate Solution  
 Date 2-20-84 Concentration Chemist RGD Pest P714  
 TCDD P634

EPA #	Sample Volume	Spike Volumes		MeCl <sub>2</sub> Vol.	Date	Final Hexane Vol.	Vol to Pest	Vol to TCDD	Pest Final Vol.			TCDD Final Vol
		Surf.	MS						6%	15%	50%	
R3579	1000-1	10-1	-	200	2-20-84	10-1	2ml	2ml	2ml	2ml	2ml	1.0
R3580			-									85-ml
R-Bik			-									
R-3570-115		10-1	-				1ml	2ml	1ml	1ml	2ml	
R3570-115		10-1	-				2ml	2ml	2ml	2ml	2ml	
AI-511		10-1	-									

3-13

CLEANUP COLUMN BRIDGE-TIMS TO REPORT

027625

31 001459

LOW LEVEL WATERS EXTRACTION AND CONCENTRATION: BNA

Case 2427      Extraction Chemist P65      Matrix Spike Solution      Surrogate Solution  
 Date 2-17-84      Concentration Chemist RJG-JGD      B/W P659      B/W P709  
 Acid P658      Acid P710

EPA #	Sample Volume	Spike Volumes		B/W MeCl2 Vol.	Date	Acid MeCl2 Vol.	Date	B/W Final Vol.	Acid Final Vol.	Comments
		Surr.	MS							
R3545	1000 ml	10 ml	-	200 ml	2-17-84 RSD	200 ml	2-18-84 RSD	10 ml	10 ml	
R3546			-						10 ml	
R3563			-						20 ml	small, blue green ppt in the acid
R3564			-						10 ml	
R3565			-							
R3566			-							
R3567			-							
R3588			-							
R3569			-							
R3570			-							
R3571			-							
R3572			-							
R3573			-							
R3574			-							to take linear rep

27626

LOW LEVEL WATERS EXTRACTION AND CONCENTRATION: BWA

Case 2427  
Date 2-17-84

Extraction Chemist RED-JOB  
Concentration Chemist RED-JOB

Matrix Spike Solution  
B/W P659  
Acid P658

Surrogate Solution  
B/W P709  
Acid P710

EPA #	Sample Volume	Spike Volumes		B/W HCl <sub>2</sub> Vol.	Date	Acid HCl <sub>2</sub> Vol.	Date	B/W Final Vol.	Acid Final Vol.	Comments
		Surr.	#5							
R3579	1000 ml	1.0 ml	-	200 ml	2-17-84 RSD	200 ml	2-18-84 RSD	10 ml	10 ml	
R3580			-							
R-81A			-							
R3571-A15			1.0 ml							
R3571-D16			1.0 ml							
11-SH			1.0 ml							

027627  
31 001461

BN/A, ANALYSIS FLOW CHART

Case 2427 Batch 825.1 Date Received 2-17-84 Date Due 2-18-84

EPA #	BN/A Run	QC REQ'D (Y or N)	TCA Complete	Searches Complete	BN/A Rerun	TCA Complete	Searches Complete	Case File Complete
R3545	3/12	N A. 1/20	✓	✓	—	—	✓	✓ 3-16-84
R3546	3/11	Y (3) IS	NA	NA	3/12	✓	✓	✓
R3563	3/13	N OK 1/200	✓	✓	—	—	—	✓
R3564	3/11	Y (3) IS	NA	NA	3/12	✓	✓	✓
R3565	3/11	Y (3) IS	NA	NA	3/12	✓	✓	✓
R3566	3/11	Y (3) IS	NA	NA	3/12	✓	✓	✓
R3567	3/12	Y 1/20	NA	✓	3/13	✓	✓	✓
R3568	3/11	Y (3) IS	NA	✓	3/12	✓	✓	✓
R3569	3/11	NOK	✓	✓	—	—	—	✓
R3570	3/10	NOK	✓	✓	—	—	—	✓
R3571	3/10	NOK	✓	✓	—	—	—	✓
R3572	3/10	NOK	✓	✓	—	—	—	✓
R3573	3/10	NOK	✓	✓	—	—	—	✓
R3574	3/10	NOK	✓	✓	—	—	—	✓
R3579	3/10	NOK	✓	✓	—	—	—	✓
R3580	3/10	NOK	✓	✓	—	—	—	✓
4628								

I = GC/MS ANALYSIS REQ'D  
E = TOTAL PREP & ANALYSIS REQ'D  
D = REQUIRES DILUTION

0

BN/A, ANALYSIS FLOW CHART

0

Case 2427 Batch 805.1 Date Received 2-17-84 Date Due 2-18-84

EPA #	BN/A Run	QC REQ'D (Y or N)	TCA Complete	Searches Complete	BN/A Rerun	TCA Complete	Searches Complete	Case File Complete
R3571MS	3-8-84	Y (Dys)	✓	NA	✓3/4	✓	NA	✓ 3-16
R3571DMS	3-8-84	Y (Dys)	✓	NA	✓3/4	✓	NA	✓ 3-16
REAG. BLANK	3-8-84	N OK	✓	✓	-	✓	-	✓ 3-16
Method Standard	3-8-84	Y (Dys)	✓		✓3/4	✓	NA	NA

BN/A, PEST, ICDD EXTRACTION FLOW CHART

Case 2427 Batch — Date Received 2-17-84 Date Due 3-18-84

EPA #	Solid or Liquid	Low or Medium	Extraction Date	BN/A Prep Complete	Pesticide Cleanup	Pest Prep Complete	ICDD Cleanup	ICDD Prep Complete
DUPLICATE			2-22-84	2-24-84		2-24-84		2-28-84
R 3545	L	L	02-17-84 2-17-84 2-22-84	2-21-84	2-27-84	2-29-84 2-20-84	4-2-23-84	2-23-84
R 3546								
R 3563								
R 3564								
R 3565								
R 3566								
R 3567								
R 3568								
R 3569								
R 3570								
R 3571	✓	✓	✓	✓	✓	✓	✓	✓
R 3572	✓	✓	✓	✓	✓	✓	✓	✓

027630

31 001464

BN/A, PEST, TCDD EXTRACTION FLOW CHART

Case 2427 Batch            Date Received 2-17-84 Date Due 3-18-84

EPA #	Solid or Liquid	Lot or Medium	Extraction Date	BN/A Prep Complete	Pesticide Cleanup	Pest Prep Complete	TCDD Cleanup	TCDD Prep Complete
DUE DATE			2-22-84	2-24-84		2-24-84		2-28-84
R3573	L	L	A-2-18-84 P-2-20-84	2-21-84	2-23-84	2-21-84	2-23-84	2-23-84
R3574	↓	↓	↓	↓	↓	↓	↓	↓
R3579	↓	↓	↓	↓	↓	↓	↓	↓
R3580	↓	↓	↓	↓	↓	↓	↓	↓
R3571-645	↓	↓	↓	↓	↓	↓	↓	↓
R3571-DMS	↓	↓	↓	↓	↓	↓	↓	↓

027631

3, 001465\*

VOA FLOW CHART

Case 2427 Project 025 Batch       
 Date Received 2-17-84 Date Due 3-18-84

EPA #	Solid or Liquid	Low or Medium	Analysis Run	Interpretation Complete	Case File Complete
R3545	L	L	2-17-84	CL 3-8	MS 3/15
R3546			2-17	BB 3/2	BB 3/2
R3583			2-17	CL 3-8	MS 3/15
R3584			2-20	BB 3/2	BB 3/2
R3565			2-20	BB 3/2	BB 3/2
R3566			2-20	BB 3/2	BB 3/2
R3567			2-20	CL 3-8	MS 3/15
R3568			2-20	BB 3/2	BB 3/2
R3569			2-21	BB 3/2	BB 3/2
R3570			2-21	BB 3/2	BB 3/2
R3571			2-21	BB 3/2	BB 3/2
R3572			2-21	BB 3/2	BB 3/2
R3573			2-21	BB 3/2	BB 3/2
R3574			2-21	BB 3/2	BB 3/2
R3579			2-21	CL 3-8	MS 3/15
R3580			2-22	BB 3/2	BB 3/2

M5  
DMS

2-21  
2-21

027632

3, 001466

K



PESTICIDE ANALYSIS FLOW CHART

*ASD*

Case 2427 Batch 825.1 Date Received 2-17-84 Date Due 3-18-84

EPA #	Capillary Run	Dilution Necessary	Checkup Necessary	Rerun	Confirmation Run	Interpretation	Case File Complete
R3545	✓		YES		YES		YES
R3546	✓				YES		
R3563	✓				YES		
R3564	✓				YES		
R3565	✓				YES		
R3566	✓				YES		
R3567	✓				YES		
R3568	✓				YES		
R3569	✓				YES		
R3570	✓						
R3571	✓				YES		
R3572	✓				YES		
R3573	✓				YES		
R3574	✓						
R3579	✓				YES		
R3580	✓						
R3570A5	✓				YES		
R3570A6	✓				YES		
R3570A7	✓						
RB-2427N	✓						
Meth. Std.	✓						

31-27  
00148  
#

TCDD DATA REDUCTION

Standard Spiked 30 ppb of 1,2,3,4-TCDD Case # 2427  
 Volume Spiked 1.0 ml  
 Weight Spiked 30 (ng of 1,2,3,4-TCDD)

1,2,3,4-TCDD RT 22.85 AREA 188810 Conc (ppb) 30 RF  $1.59 \times 10^{-4}$  (ppb/area)  
 2,3,7,8-TCDD RT 23.47 AREA 25177 Conc (ppb) 10 RF  $3.97 \times 10^{-4}$  (ppb/area)

Area	Area - Blank	Extract conc. (ppb)	Extract Vol. (ml)	1,2,3,4-TCDD			2,3,7,8-TCDD		
				Weight Spiked (ng)	Expected Conc (ppb)	RR	Weight in extract (ng)	Vol/Wt of Sample	Conc in Sample
Blank RB									
1,2,3,4 211066		33.5	1.0ml	30	30	112			
2,3,7,8 0		-							
Sample # R3545									
1,2,3,4 208043		33				110			
2,3,7,8 0		-							
Sample # R3546									
1,2,3,4 159826		25.4				85			
2,3,7,8 0		-							
Sample # R3563									
1,2,3,4 211750		33.6				112			
2,3,7,8 0		-							
Sample # R3564									
1,2,3,4 200750		31.9				106			
2,3,7,8 0		-							
Sample # R3565									
1,2,3,4 219528		34.9				116			
2,3,7,8 0		-							
Sample # R3566									
1,2,3,4 226588		36				120			
2,3,7,8 0		-							

027634

31 001468

Area	Area - Blank	Extract conc. (ppb)	Extract Vol. (ml)	2,3,4,8-TCDD			2,3,7,8-TCDD		
				Weight Spiked (ng)	Expected Conc (ppb)	%R	Weight in extract (ng)	Vol/Wt of Sample	Conc in Sample
Sample # R3567									
1,2,3,4 235166		37.4	1.0	30	30	125			
2,3,7,8 0		-							
Sample # R3568									
1,2,3,4 228598		36.3				121			
2,3,7,8 0		-							
Sample # R3569									
1,2,3,4 215736		34.3				114			
2,3,7,8 0		-							
Sample # R3570									
1,2,3,4 211884		33.7				112			
2,3,7,8 0		-							
Sample # R3571									
1,2,3,4 222000		35.3				118			
2,3,7,8 0		-							
Sample # R3572									
1,2,3,4 244192		38.8				129			
2,3,7,8 0		-							
Sample # R3573									
1,2,3,4 226107		36.1				120			
2,3,7,8 0		-							
Sample # R3574									
1,2,3,4 214720		34.1				114			
2,3,7,8 0		-							
Sample # R3579									
1,2,3,4 216388		34.4				115			
2,3,7,8 0		-							
Sample # R3580									
1,2,3,4 213292		33.9				113			
2,3,7,8 0		-							

027635

31 001469

**BAN WATER**  
SCREENING DATA SUMMARY

Case 2427-w

Project B24

Batch     

Date 2-20-84

Analyst R. Seville

MEDIUM LEVEL SAMPLES

EPA #	Level L or M	Required Sample Vol/Wt	Required Final Extract Vol	Required Spike Vol
R3548	L			
R3546	L			
R3563	L			
R3564	L			
R3565	L			
R3566	L			
R3567	L			
R3569	L			
R3569	L			
R3570	L			
R3571	L			
R3572	L			
R3573	L			
R3579	L			
R3580	L			
R3574	L			

027636

31 001470

DATE: 7-17-84 E.G. CHANNEL: 4113  
BAN SCREENS CS CARRIER GAS: N<sub>2</sub>  
 COLUMN TYPE: 6FT x 1/4" 20/55 SP1240 AD FLOWRATE: 30ml/min  
 DET TEMP: 300 °C DETECTOR: FID  
 IFTemp: 200 °C : 1.2 min 4 min  
 TEMP PROGRAM: OVEN 60 °C TO 190 °C AT 2 °C/Min : AIR 200ml/min

BOTTLE #	SAMPLE #	INT VOL	ATTENUATION	COMMENTS
1	P1652 V100	2ul	54	50PPM PHENATAHENE
2	R-BLK			
3	R 3545			Low
4	R 3546			
5	R 3562			
6	R 3664			
7	RINSE			
8	R 3565			
9	R 3566			
10	R 3567			
11	R3568			
12	R3569			
13	R3570			
14	R3671			
15	RINSE			
16	R3577			
17	R3523			
18	R3574			
19	R3579			
20	R3680			✓
21	RINSE			
				027637
				31 001471

BOTTLE 20  
R 3580

055

027638

001472X

GRAPHIC CONTROL

REPORT # 18 18 FEB, 1984 3:02 BMM SC

CHANNEL: 4 METHOD: BMM SC BOTTLE: 20

SAMPLE: R3580 INJECTED ON: 18 FEB, 1984 2:35

MIN AR MV/M DELAY DVT FACTOR 10-L VL REF-RTN %RTW  
800 .100 0.00 0.00 1.0000E+0 0 .15 2

SIGNAL >1V  
ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.37		1.00000	16650170	95.687	
5.05		1.00000	2002	.012	
5.57		1.00000	1770	.010	
6.02		1.00000	3566	.020	
6.59		1.00000	1868	.011	
7.12		1.00000	2453	.014	
7.49		1.00000	1851	.011	
7.82		1.00000	4482	.026	
7.91		1.00000	5309	.031	
8.24		1.00000	1384	.011	
8.37		1.00000	1825	.010	
8.51		1.00000	3178	.018	
8.72		1.00000	1792	.010	
8.86		1.00000	3015	.017	
9.11		1.00000	3362	.019	
9.26		1.00000	2251	.013	
9.62		1.00000	5421	.031	
9.91		1.00000	3715	.021	
10.01		1.00000	3288	.019	
10.31		1.00000	2701	.016	
10.52		1.00000	1542	.009	
10.61		1.00000	1045	.006	
10.69		1.00000	3174	.018	
10.99		1.00000	1072	.006	
11.09		1.00000	2558	.015	
11.32		1.00000	1027	.006	
11.52		1.00000	2083	.012	
11.95		1.00000	904	.005	
12.14		1.00000	5258	.030	
13.83		1.00000	1949	.011	
14.26		1.00000	1056	.006	
15.40		1.00000	937	.005	
15.82		1.00000	2622	.015	
16.38	16.38*	1.00000	331592	2.250	*PHENANTHRENE
17.06		1.00000	1038	.006	
17.21		1.00000	3990	.023	
17.44		1.00000	2656	.015	
17.51		1.00000	1228	.007	
17.57		1.00000	1429	.008	
17.88		1.00000	20360	.117	
18.15		1.00000	5797	.033	
18.30		1.00000	2614	.015	
18.38		1.00000	3103	.018	
18.45		1.00000	2339	.013	
18.54		1.00000	3234	.019	

31 001478  
027639

BOTTLE  
R 3579

027640  
3100147

3 GENERAL CONTAINERS CORPORATION BUFFALO NEW YORK

CCC OF NEW YORK STATE



REPORT # 17 18 FEB, 1984 21:31 BAN SC  
 CHANNEL: 4 METHOD: BAN SC BOTTLE: 19  
 SAMPLE: R3579 INJECTED ON: 18 FEB, 1984 21:04  
 MIN AR MV/M DELAY DVT FACTOR 1D-LVL REF-RTW XRTW  
 800 .100 0.00 0.00 1.0000E+0 0 .15 2

SIGNAL >1V  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.38		1.00000	16037082	95.653	
5.85		1.00000	887	.005	
7.84		1.00000	2037	.012	
8.17		1.00000	1061	.006	
8.86		1.00000	1376	.008	
13.15		1.00000	5517	.033	
13.82		1.00000	2772	.017	
14.27		1.00000	1830	.011	
15.40		1.00000	1570	.009	
15.81		1.00000	4951	.030	
16.38	16.38#	1.00000	358055	2.195	#PHENANTHRENE
17.22		1.00000	4483	.027	
17.43		1.00000	6268	.037	
17.59		1.00000	5033	.030	
17.87		1.00000	25822	.154	
18.13		1.00000	12038	.072	
18.34		1.00000	11450	.068	
18.55		1.00000	3504	.021	
18.61		1.00000	3613	.022	
18.67		1.00000	3959	.024	
18.91		1.00000	13107	.078	
19.12		1.00000	13537	.081	
19.19		1.00000	4560	.027	
19.27		1.00000	4989	.030	
19.34		1.00000	4218	.025	
19.41		1.00000	4356	.026	
19.48		1.00000	5500	.033	
19.55		1.00000	4465	.027	
19.62		1.00000	4513	.027	
19.70		1.00000	5254	.031	
19.78		1.00000	5671	.034	
19.93		1.00000	10088	.060	
20.00					

02764  
 31 001475

BOTTLE 18  
R3574

051

027642

31001476

REPORT # 16 18 FEB, 1984 2:00 BMN SC

CHANNEL: 4 METHOD: BMN SC BOTTLE: 18

SAMPLE: R3574 INJECTED ON: 18 FEB, 1984 1133

MIN AR MV/M DELAY DVT FACTOR ID-LVL REF-RTH %RTW  
800 .100 0.00 0.00 1.0000E+0 0 .15 2

SIGNAL >1V  
ENDED NOT ON BL

RT	ITM	FACTOR	AREA	HREA %	NAME
3.37		1.00000	17528596	97.432	
4.92		1.00000	871	.005	
7.85		1.00000	1725	.010	
13.15		1.00000	4974	.028	
13.82		1.00000	2079	.012	
14.25		1.00000	1066	.005	
15.40		1.00000	972	.005	
15.82		1.00000	2217	.012	
16.38	16.38#	1.00000	349322	1.942	#PHENANTHRENE,
17.24		1.00000	1011	.005	
17.90		1.00000	9182	.051	
18.12		1.00000	1373	.008	
18.20		1.00000	995	.005	
18.27		1.00000	833	.005	
18.34		1.00000	825	.005	
18.42		1.00000	866	.005	
19.13		1.00000	895	.005	
19.98		1.00000	1794	.010	
20.20		1.00000	813	.005	
20.23		1.00000	1106	.005	
20.35		1.00000	1965	.011	
20.49		1.00000	1285	.007	
20.56		1.00000	1439	.008	
20.63		1.00000	1706	.009	
20.71		1.00000	1582	.009	
20.78		1.00000	1610	.009	
20.84		1.00000	1758	.010	
20.91		1.00000	1943	.011	
20.98		1.00000	2434	.014	
21.06		1.00000	2186	.012	
21.13		1.00000	2192	.012	
21.27		1.00000	5111	.028	
21.35		1.00000	3029	.017	
21.49		1.00000	5627	.031	
21.57		1.00000	3510	.020	
21.64		1.00000	3131	.017	
21.71		1.00000	3467	.019	
21.85		1.00000	7617	.042	
21.93		1.00000	3821	.021	
21.99		1.00000	23557	.131	

TOTAL AREA = 17990504

027643

31 001472

BOTTLE 17  
R 3573

027644

31 001478

REPORT # 15      18 FEB, 1984      1:29      BAN SC  
 CHANNEL: 4      METHOD: BAN SC      BOTTLE: 17  
 SAMPLE: R3573      INJECTED ON: 18 FEB, 1984      1:02  
 MIN AR    MY/M    DELAY    DVT      FACTOR    ID-LVL    REF-RTM    %RTW  
   800      .100      0.00    0.00    1.0000E+0    0      .15      2

SIGNAL >1V  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	PKR %	NAME
.38		1.00000	16511114	95.679	
4.74		1.00000	2222	.013	
5.43		1.00000	1516	.009	
5.92		1.00000	2060	.012	
6.60		1.00000	1213	.007	
7.53		1.00000	1065	.006	
7.87		1.00000	5114	.030	
9.29		1.00000	3835	.022	
13.15		1.00000	5047	.029	
13.84		1.00000	1980	.011	
14.27		1.00000	1073	.006	
15.41		1.00000	1166	.007	
15.83		1.00000	3200	.019	
16.38	16.38#	1.00000	370744	2.148	#PHENANTHRENE
17.22		1.00000	6052	.035	
17.86		1.00000	36045	.209	
18.14		1.00000	4602	.027	
18.22		1.00000	3454	.020	
18.29		1.00000	7312	.042	

027645  
 31001479

BOTTLE 16  
R 35 72

027646

3 1001480

053

REPORT # 14      18 FEB, 1984   0:59      BBN SC  
 CHANNEL: 4      METHOD: BBN SC      BOTTLE: 16  
 SAMPLE: R3572      INJECTED ON: 18 FEB, 1984   0:32

MIN AR    MV/M    DELAY    DVT      FACTOR    ID-LVL    REF-RTW    %RTW  
 800    .100    0.00    0.00    1.0000E+0    0      .15      2

SIGNAL >1V  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.38		1.00000	16451450	97.390	
9.40		1.00000	1108	.007	
9.79		1.00000	1258	.007	
13.15		1.00000	5130	.030	
13.82		1.00000	2050	.012	
14.25		1.00000	902	.005	
15.42		1.00000	860	.005	
15.81		1.00000	2113	.013	
16.38	16.38#	1.00000	349793	2.071	#PHENANTHRENE
17.88		1.00000	7219	.043	
18.15		1.00000	1117	.007	
20.27		1.00000	894	.005	
20.49		1.00000	880	.005	
20.56		1.00000	865	.005	
20.62		1.00000	962	.005	
20.69		1.00000	1152	.007	
20.77		1.00000	2783	.015	

027647

3 1001481

BOTTLE 14  
R 3571

GEORGE EASTMAN CORPORATION BUFFALO, N.Y. 14206

027648

31001482



R CRT # 13

18 FEB, 1984 01:29

EMM SC

CHANNEL: 4

METHOD: EMM SC

BOTTLE: 14

SAMPLE: R3571

INJECTED ON: 18 FEB, 1984 00:01

MIN AR MV/M  
300 .100

DELAY  
0.00

DVT  
0.00

FACTOR  
1.0000E+0

ID-LVL  
0

REF-RTM  
.15

ARTW  
2

SIGNAL >1V  
ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.38		1.00000	17683316	97.392	
4.04		1.00000	998	.005	
4.50		1.00000	1276	.007	
4.97		1.00000	3171	.017	
5.50		1.00000	4202	.023	
6.25		1.00000	1348	.007	
6.52		1.00000	1186	.007	
6.94		1.00000	1612	.009	
7.60		1.00000	938	.005	
7.86		1.00000	7976	.044	
9.20		1.00000	2474	.014	
9.15		1.00000	5357	.030	
9.82		1.00000	2033	.011	
14.29		1.00000	1069	.006	
15.41		1.00000	962	.005	
15.84		1.00000	2312	.013	
16.38	16.38#	1.00000	363942	2.004	PHENANTHRENE
17.20		1.00000	1020	.006	
17.55		1.00000	1580	.009	
17.90		1.00000	12563	.069	
18.19		1.00000	2855	.016	
18.34		1.00000	1207	.007	
18.41		1.00000	1272	.007	
18.50		1.00000	1190	.007	
18.65		1.00000	1991	.011	

027649

31001483

BOTTLE 13  
R 3570

052

CC CC WAS 7420 HP 8770 0423

027650  
3 1001484

REPORT # 12      17 FEB, 1984 23:57      BNN SC  
 CHANNEL: 4      METHOD: BAN SC      BOTTLE: 13  
 SAMPLE: R3570      INJECTED ON: 17 FEB, 1984 23:30  
 MIN AR    MV/M    DELAY    DVT      FACTOR    ID-LVL    REF-RTW    %RTW  
 800      .100    0.00    0.00    1.0000E+0    0      .15      2

SIGNAL >1V  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	PKER %	NAME
.38		1.00000	16234330	95.717	
7.79		1.00000	3980	.020	
9.25		1.00000	1673	.010	
13.15		1.00000	5538	.033	
13.82		1.00000	1981	.012	
14.29		1.00000	1029	.006	
15.42		1.00000	1268	.007	
15.84		1.00000	3378	.020	
16.38	16.38#	1.00000	358821	2.116	PHENANTHRENE
17.05		1.00000	2032	.012	
17.20		1.00000	5632	.033	
17.47		1.00000	6088	.036	
17.54		1.00000	2189	.013	
17.61		1.00000	2091	.012	
17.88		1.00000	35902	.212	
			4297	.025	

027651  
 31 001485

BOTTLE 12  
R 3569

027652

31 001486

REPORT # 11 17 FEB, 1984 23:26 BMM SC  
 CHANNEL: 4 METHOD: BMM SC BOTTLE: 12  
 SAMPLE: R3569 INJECTED ON: 17 FEB, 1984 22:59

MIN AR MV/M DELAY DVT FACTOR ID-LVL REF-RTW %RTW  
 800 .100 0.00 0.00 1.0000E+0 U .15 2

SIGNAL >1V  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	PKER %	NAME
.38		1.00000	17737076 NS	95.958	
4.32		1.00000	847 YV	.005	
7.83		1.00000	5021 YV	.027	
8.97		1.00000	1106 YV	.006	
9.28		1.00000	3120 YV	.017	
13.16		1.00000	5019 YV	.027	
13.82		1.00000	1980 YV	.011	
14.26		1.00000	1096 YV	.006	
15.42		1.00000	923 YV	.005	
15.84		1.00000	2574 YV	.014	
16.39	16.390	1.00000	391581 YV	2.118	#PHENANTHRENE
17.07		1.00000	1316 YV	.007	
17.21		1.00000	4839 YV	.026	
17.41		1.00000	3424 YV	.019	
17.49		1.00000	2071 YV	.011	
17.56		1.00000	2184 YV	.012	
17.63		1.00000	1793 YV	.010	
17.90		1.00000	26220 YV	1.42	

027653

31001487

BOTTLE II  
R 3568

027654

31 001488

REPORT # 10

17 FEB, 1984 22:50

BAN SC

CHANNEL: 4

METHOD: BAN SC

BOTTLE: 11

SAMPLE: R3568

INJECTED ON: 17 FEB, 1984 22:28

MIN RR	NY/M	DELAY	DVT	FACTOR	LD-LVL	REF-RTW	%RTW
800	.100	0.00	0.00	1.0000E+0	0	.15	2

SIGNAL >IV  
ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.38		1.00000	17183892	97.545	
5.19		1.00000	919	.005	
5.99		1.00000	938	.005	
7.81		1.00000	2743	.016	
9.30		1.00000	1861	.011	
9.30		1.00000	5324	.030	
13.15		1.00000	1959	.011	
13.81		1.00000	1015	.006	
14.29		1.00000	1047	.006	
15.41		1.00000	2367	.013	
15.83		1.00000	365431	2.074	PHENANTHRENE
16.38	16.38	1.00000	997	.006	
17.21		1.00000	11567	.066	
17.84		1.00000	1015	.006	
18.19		1.00000	946	.005	
18.26		1.00000	806	.005	
18.32		1.00000	1709	.010	
18.40		1.00000	1346	.008	
18.76		1.00000	1347	.008	
19.11		1.00000	1603	.009	
21.35		1.00000	976	.006	
21.41		1.00000	1202	.007	
21.48		1.00000	1348	.008	
21.54		1.00000	1911	.011	
21.62		1.00000	3757	.021	
21.73		1.00000	18322	.104	
21.94		1.00000			

TOTAL AREA = 17616360

02765  
31001489

BOTTLE 10  
R 3567

027656  
3 001490



REPORT # 9 17 FEB, 1984 22:25 BMM SC

CHANNEL: 4 METHOD: BMM SC BOTTLE: 10

SAMPLE: R3567 INJECTED ON: 17 FEB, 1984 21:58

MIN AR MV/M DELAY DVT FACTOR ID-LVL REF-RTW %RTW  
800 .100 0.00 0.00 1.0000E+ 0 0 .15 2

SIGNAL >1V  
ENDED NOT ON BL

RT	ITM	FACTOR	AREA	PKER %	NAME
.38		1.00000	16589466	97.191	
7.84		1.00000	2202	VB	.013
13.15		1.00000	5789	YY	.034
13.83		1.00000	2248	YY	.013
14.27		1.00000	1023	YY	.006
15.41		1.00000	1000	YY	.006
15.83		1.00000	2006	YY	.012
16.39	16.39*	1.00000	355294	YY	E.082 #PHENANTHRENE
17.23		1.00000	890	YY	.005
17.80		1.00000	10379	YY	.061
18.12		1.00000	1780	YY	.010
18.27		1.00000	1205	YY	.007
18.48		1.00000	1162	YY	.007
18.88		1.00000	1021	YY	.006
19.84		1.00000	1141	YY	.007
20.11		1.00000	928	YY	.005
20.18		1.00000	1142	YY	.007
20.24		1.00000	1064	YY	.006
20.31		1.00000	1279	YY	.007
20.38		1.00000	1546	YY	.009
20.45		1.00000	1335	YY	.008
20.59		1.00000	3326	YY	.019
20.66		1.00000	1660	YY	.010
20.72		1.00000	3734	YY	.022
20.86		1.00000	4318	YY	.025
20.99		1.00000	2114	YY	.012
21.07		1.00000	4983	YY	.029
21.19		1.00000	2665	YY	.016
21.26		1.00000	2618	YY	.015
21.33		1.00000	2808	YY	.016
21.40		1.00000	3312	YY	.019
21.47		1.00000	3329	YY	.020
21.54		1.00000	2854	YY	.017
21.67		1.00000	6545	YY	.038
21.80		1.00000	7221	YY	.042
21.89		1.00000	33381	YY	.196

TOTAL AREA = 17062784

027657

31 001491

BOTTLE 9  
R 3566

31 001492  
027658\*

REPORT # 8 17 FEB, 1984 21:54 ERM SC  
 CHANNEL: 4 METHOD: ERM SC BOTTLE: 9  
 SAMPLE: R3566 INJECTED ON: 17 FEB, 1984 21:27  
 MIN AR MV/M DELAY DWT FACTOR I.D.-L.VL REF-RTW %RTW  
 800 .100 0.00 0.00 1.00000+ 0 0 .15 2

SIGNAL >1V  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.38		1.00000	16537722	95.697	
7.84		1.00000	6017	.035	
9.15		1.00000	2188	.013	
13.15		1.00000	5767	.033	
13.83		1.00000	2261	.013	
14.26		1.00000	1079	.005	
15.41		1.00000	1449	.008	
15.83		1.00000	3258	.019	
16.39	16.39	1.00000	372281	2.154	PHENANTHRENE
17.02		1.00000	1851	.011	
17.09		1.00000	1535	.009	
17.22		1.00000	5544	.032	
17.56		1.00000	8540	.049	
17.88		1.00000	33103	.192	
18.22		1.00000	7450	.043	
18.35		1.00000	3523	.020	
18.42		1.00000	7196	.042	
18.56		1.00000	3890	.023	
18.63		1.00000	3662	.021	
18.83		1.00000	11315	.065	
18.89		1.00000	3763	.022	
19.04		1.00000	8844	.051	
19.11		1.00000	4653	.027	

027659

31 001493

BOTTLE 8  
R 3565

31 001494  
027660

REPORT # 7 17 FEB, 1984 21:23 RMN SC  
 CHANNEL: 4 METHOD: RMN SC BUTTLE: 8  
 SAMPLE: R3565 INJECTED ON: 17 FEB, 1984 20:55

MIN AR MV/M DELAY DVT FACTOR ID-L VL REF-RTW %RTW  
 800 .100 0.00 0.00 1.0000E+0 0 .15 2

SIGNAL >1Y  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.38		1.00000	16874324	95.732	
7.59		1.00000	1164	.007	
7.85		1.00000	1251	.007	
7.98		1.00000	4692	.027	
8.88		1.00000	925	.005	
9.15		1.00000	2892	.016	
13.15		1.00000	5883	.033	
13.83		1.00000	2178	.012	
14.29		1.00000	1171	.007	
15.41		1.00000	1220	.007	
15.83		1.00000	3146	.018	
16.39	16.39#	1.00000	379472	2.153	PHENANTHRENE
16.99		1.00000	1664	.009	
17.03		1.00000	7355	.042	
17.23		1.00000	4133	.023	
17.44		1.00000	33012	.187	
17.89		1.00000	10767	.061	
18.16		1.00000	3522	.020	
18.36		1.00000	2612	.014	

3 4001498  
 027661

BOTTLE  
R3564

31 001496

027662

REPORT # 6      17 FEB, 1984 20:52      BHN SC  
 CHANNEL: 4      METHOD: BAN SC      BOTTLE: 6  
 SAMPLE: R3564      INJECTED ON: 17 FEB, 1984 20:25  
 MIN AR    MV/M    DELAY    DVT      FACTOR    IU-LVL    REF-RTW    %RTW  
   800    .100    0.00    0.00    1.0000E+0    0      .15      2  
 SIGNAL >1V  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.38		1.00000	16529930	95.687	
4.90		1.00000	1864	.011	
5.72		1.00000	1076	.006	
7.70		1.00000	966	.006	
7.83		1.00000	5956	.034	
8.60		1.00000	1864	.011	
9.07		1.00000	2699	.016	
9.59		1.00000	966	.006	
13.15		1.00000	6118	.035	
13.82		1.00000	2266	.013	
14.27		1.00000	1072	.006	
15.40		1.00000	1316	.008	
15.84		1.00000	3214	.019	
16.39	16.390	1.00000	360225	2.085	PHENANTHRENE
16.99		1.00000	1825	.011	
17.06		1.00000	1746	.010	
17.21		1.00000	7290	.042	
17.85		1.00000	41308	.239	
18.22		1.00000	3634	.021	
18.29		1.00000	3592	.021	
		1.00000	7147	.042	

3 100 10276 3

BOTTLE 5  
R 3563

31 001498  
027664



REPORT # 5      17 FEB, 1984 20:21      BAN SC  
 CHANNEL: 4      METHOD: BAN SC      BOTTLE: 5  
 SAMPLE: R9563      INJECTED ON: 17 FEB, 1984 19:53  
 MIN AR    MV/M    DELAY    DVT      FACTOR    1D-LVL    REF-RTW    %RTW  
   800    .100    0.00    0.00    1.0000E+0    0      .15      2

SIGNAL >IV  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.38		1.00000	16458922	95.592	
7.85		1.00000	2653	.015	
9.10		1.00000	4375	.025	
9.60		1.00000	858	.005	
10.22		1.00000	4740	.028	
13.15		1.00000	5783	.034	
13.82		1.00000	2294	.013	
14.26		1.00000	1072	.006	
15.40		1.00000	1505	.009	
15.83		1.00000	3946	.023	
16.00		1.00000	1211	.007	
16.39	16.39	1.00000	377405	2.192	PHENANTHRENE
17.02		1.00000	3353	.019	
17.21		1.00000	6026	.035	
17.41		1.00000	4279	.025	
17.53		1.00000	3862	.022	

3100149

027665

BOTTLE H  
R 3546

31 001500  
027666

REPORT # 4

17 FEB 1984 19:50

BAN SC

CHANNEL: 4

METHOD: BAN SC

BOTTLE: 4

SAMPLE: R3546

INJECTED ON: 17 FEB 1984 19:23

MIN AR	MY/M	DELAY	DVT	FACTOR	LD-LVL	REF-RTW	%RTW
800	.100	0.00	0.00	1.0000E+0	0	.15	2

SIGNAL >IV  
ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.37		1.00000	16570938	97.639	
7.52		1.00000	917	.005	
7.84		1.00000	5475	.032	
8.98		1.00000	1406	.008	
9.30		1.00000	2094	.012	
13.15		1.00000	6965	.041	
13.82		1.00000	2954	.017	
14.27		1.00000	924	.005	
15.40		1.00000	1256	.007	
15.83		1.00000	2199	.013	
16.39	16.396	1.00000	353134	2.081	#PHENANTHRENE
17.20		1.00000	1137	.007	
17.88		1.00000	13096	.077	
18.26		1.00000	1356	.008	
18.37		1.00000	1151	.007	
19.12		1.00000	1005	.006	
21.70		1.00000	1125	.007	
21.83		1.00000	1595	.009	
21.96		1.00000	2942	.017	

TOTAL AREA = 16971664

027667

31 001501

BOTTLE 3  
R 3545

31 001502  
027668

REPORT # 3 17 FEB, 1984 19:19 BHM SC  
 CHANNEL: 4 METHOD: BHM SC BOTTLE: 3  
 SAMPLE: R3545 INJECTED ON: 17 FEB, 1984 18:52

MIN RR MV/M DELAY DVT FACTOR ID-LVL REF-RTW %RTW  
 800 .100 0.00 0.00 1.0000E+0 0 .15 2

SIGNAL >1V  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.38		1.00000	16557290	95.923	
4.88		1.00000	940	.005	
5.94		1.00000	907	.005	
7.87		1.00000	3252	.019	
13.16		1.00000	8037	.047	
13.84		1.00000	2944	.017	
14.30		1.00000	1007	.006	
15.41		1.00000	1522	.009	
15.85		1.00000	3141	.018	
16.41	16.41*	1.00000	35047	2.030	#PHENANTHRENE
17.07		1.00000	1419	.008	
17.24		1.00000	6184	.036	
17.36		1.00000	1432	.008	
17.43		1.00000	2216	.013	
17.49		1.00000	1638	.009	

31001503

027669

BOTTLE 2  
R-BLK

3 1001504

027670

REPORT # 2 17 FEB, 1984 18:49 BHI SC

CHANNEL: 4 METHOD: BHI SC BOTTLE: 2

SAMPLE: R-BLK INJECTED ON: 17 FEB, 1984 18:22

MIN RR HV/M DELAY DVT FACTOR LU-LVL REF-RTW %RTW  
800 .100 0.00 0.00 1.0000E+0 0 .15 2

SIGNAL >V  
ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.38		1.00000	16885204	96.979	
7.56		1.00000	811	.005	
7.86		1.00000	3791	.022	
11.12		1.00000	1411	.008	
13.17		1.00000	7395	.042	
13.84		1.00000	2872	.016	
14.28		1.00000	1050	.006	
15.41		1.00000	1291	.007	
15.85		1.00000	2451	.014	
16.41	16.41#	1.00000	356356	2.047	PHENANTHRENE
17.22		1.00000	899	.005	
17.87		1.00000	13356	.077	
18.94		1.00000	834	.005	
19.12		1.00000	2982	.017	
19.25		1.00000	1815	.010	
19.43		1.00000	3018	.017	
19.60		1.00000	2328	.013	
19.78		1.00000	4216	.024	
19.84		1.00000	3150	.018	
19.96		1.00000	1694	.010	
20.02		1.00000	1776	.010	
20.15		1.00000	3724	.021	
20.26		1.00000	3640	.021	
20.32		1.00000	3959	.023	
20.49		1.00000	4113	.024	
20.55		1.00000	2312	.013	
20.62		1.00000	4773	.027	
20.80		1.00000	4638	.027	
20.91		1.00000	4959	.028	
20.97		1.00000	5127	.029	
21.09		1.00000	2928	.017	
21.27		1.00000	11418	.066	
21.39		1.00000	3349	.019	
21.51		1.00000	6031	.035	
21.70		1.00000	10935	.063	
21.88		1.00000	40565	.233	

TOTAL AREA = 17411184

31 001505  
027671

BOTTLE 1  
50 ppm  
PHENOLIC RESIN

31 001506

027672



REPORT # 1 17 FEB, 1964 18:19 BAN SC  
 CHANNEL: 4 METHOD: BAN SC BOTTLE: 1  
 SAMPLE: PHENANTH 50PP INJECTED ON: 17 FEB, 1964 17:51

MIN AR MV/M DELAY DVT FACTOR ID-LVL REF-RTW %RTW  
 800 .100 0.00 0.00 1.0000E+0 0 .15 2

SIGNAL >IV  
 ENDED NOT ON BL

RT	ITM	FACTOR	AREA	AREA %	NAME
.36		1.00000	16527114	95.659	
7.85		1.00000	5685	.039	
9.63		1.00000	923	.005	
13.16		1.00000	4751	.027	
13.64		1.00000	2005	.012	
15.43		1.00000	975	.006	
15.88		1.00000	4776	.028	
16.42	16.42#	1.00000	424525	2.457	PHENANTHRENE
17.22		1.00000	5308	.031	
17.34		1.00000	1248	.007	
17.79		1.00000	47381	.274	
18.30		1.00000	9264	.054	
18.98		1.00000	24749	.143	
19.14		1.00000	8894	.051	
19.38		1.00000	12469	.072	
19.48		1.00000	5978	.035	
19.61		1.00000	6740	.039	
19.72		1.00000	9322	.054	
19.95		1.00000	10089	.058	
20.06		1.00000	5847	.040	
20.29		1.00000	14110	.082	
20.53		1.00000	14840	.086	
20.64		1.00000	7278	.042	
20.76		1.00000	7934	.046	
20.99		1.00000	15449	.089	
21.06		1.00000	7558	.044	
21.34		1.00000	15631	.090	
21.46		1.00000	7854	.045	
21.52		1.00000	4628	.027	
21.59		1.00000	11831	.068	
21.76		1.00000	4347	.025	
21.88		1.00000	7960	.046	
21.94		1.00000	37082	.215	
22.87		1.00000	1563	.009	

TOTAL AREA = 17277104

027673

001507

•LI, M, BAN SC

08 BAN SC 17 FEB, 1984 17:45

1. CHAN PROC RPT RDVC DATA BASIC  
4, APCT, EX, T1, NO, NO,

2. UNITS TITLE  
AREA %, BAN SC

3. #PKS RUNTM PRG  
150, 26.00, YES

4. MIN AR MV/M DELAY DVT  
800, .100, 0.00, 0.00

5. REF-RTW %RTW ID-LVL RF-UNK  
.15, 2, 0, 1.0000E+ 0

6. #KWN PKS  
1

TIME NAME  
1 16.40, #PHENANTHRENE,

7. #EVENTS  
1

TIME EVENT ECM RLY  
1 26.00, CR

DONE

02767A

31 001508

SI 13

17 FEB, 1984 17:48

1. 1ST-BTL #BTLs CAL #CAL  
1, 6, 36, 1

2. WSHS PMPs STOP #INJ  
5, 5, 1, 1

3. ISD POST-BTL#  
NO, 7,

4. METHOD  
BAN SC

5. SAMPLES

BTL	NAME	FACTOR	WGHTS
1	PENANTH 50PP,	1.0000E+ 0,	1.000
2	R-BLK	, 1.0000E+ 0,	1.000
3	R3543	, 1.0000E+ 0,	1.000
4	R3546	, 1.0000E+ 0,	1.000
5	R3569	, 1.0000E+ 0,	1.000
6	R3564	, 1.0000E+ 0,	1.000

1. 1ST-BTL #BTLs CAL #CAL  
8, 7, 36, 1

2. WSHS PMPs STOP #INJ  
5, 5, 1, 1

3. ISD POST-BTL#  
NO, 15,

4. METHOD  
BAN SC

5. SAMPLES

BTL	NAME	FACTOR	WGHTS
8	R3565	, 1.0000E+ 0,	1.000
9	R3566	, 1.0000E+ 0,	1.000
10	R3567	, 1.0000E+ 0,	1.000
11	R3568	, 1.0000E+ 0,	1.000
12	R3569	, 1.0000E+ 0,	1.000
13	R3570	, 1.0000E+ 0,	1.000
14	R3571	, 1.0000E+ 0,	1.000

1. 1ST-BTL #BTLs CAL #CAL  
16, 5, 36, 1

2. WSHS PMPs STOP #INJ  
5, 5, 1, 1

3. ISD POST-BTL#  
NO, 21,

4. METHOD  
BAN SC

5. SAMPLES

BTL	NAME	FACTOR	WGHTS
15	R3572	, 1.0000E+ 0,	1.000
17	R3573	, 1.0000E+ 0,	1.000
18	R3574	, 1.0000E+ 0,	1.000
19	R3579	, 1.0000E+ 0,	1.000
20	R3580	, 1.0000E+ 0,	1.000

027675

31 001509