Chromatograms

and

Computer Printouts

To Augment Final Report of

An Extension of the Baseline Composition of Hydrocarbons in Benthic Epifauna of the Outer Continental Shelf of the Eastern Gulf Of Mexico

BLM Contract Number 08550-CT5-43

Philip A. Meyers
The University of Michigan
1976

Chromatograms

and

Computer Printouts

To Augment Final Report of

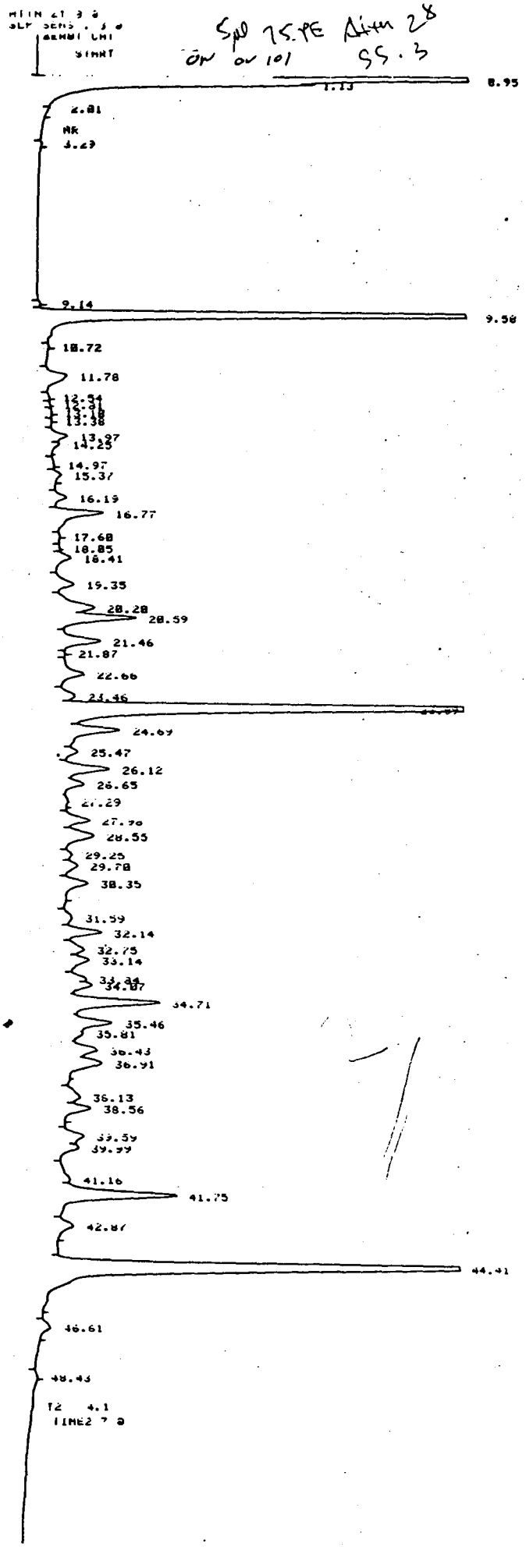
An Extension of the Baseline Compositions of Hydrocarbons in Benthic Epifauna of the Outer Continental Shelf of the Eastern Gulf of Mexico

BLM Contract Number 08550-CT5-43

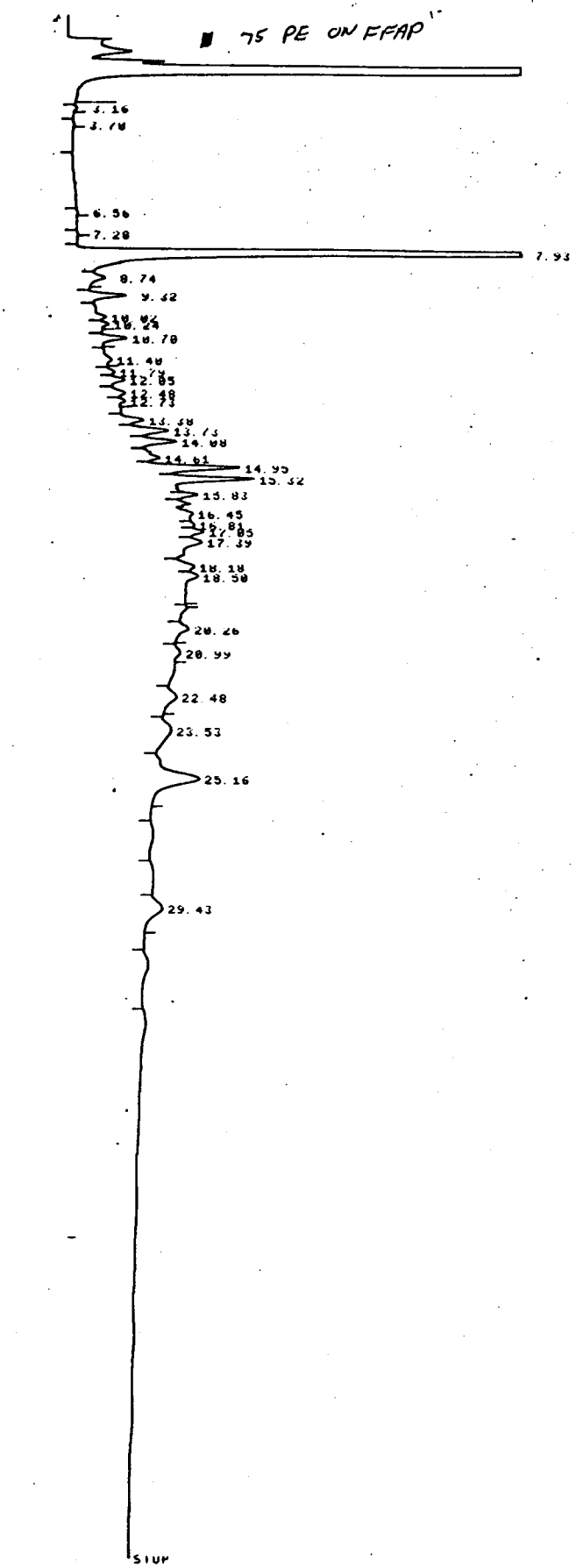
Philip A. Meyers
The University of Michigan
1976

Sample Identification Key

Analysis Number	SUSIO Collection Number	Sample Number
75	II-C-1	246101
76	43	243101
77	II-S-7	251412
78	54-C	254361
79	64-A	164801
80	II-K-2	252611
81	V-B-1	505641
82	2-I	502641
83	I-E-1	160721
84	II-Q-1	248411
85	II-O-1	244101
86	II-M-1	245901
87	61-A	161101
88	58	158101
89	II-S-3	251331
90	II-S-4	251341
91	II-S-6	251351
92	51-B	251241
93	51-D-3	251342
94	63-A	163311
95	V-E-2	501502
96	V-C-2	506701
97	49-A	249411
164	I-C-4	164621

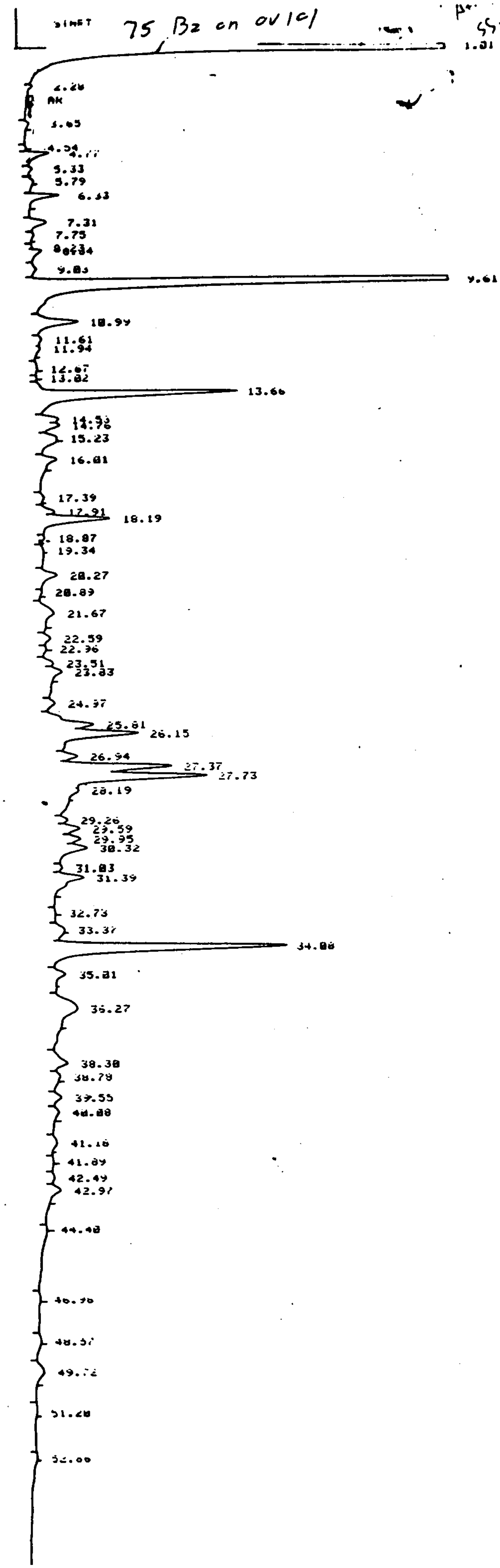


Continued 45


75 PE ON FFAP
3.16
3.78
6.56
7.20
7.93
8.74
9.62
10.24
10.78
11.48
12.85
12.48
12.73
13.83
14.61
14.95
15.32
15.83
16.45
17.39
18.18
18.58
20.26
20.99
22.48
23.53
25.16
29.43
STOP

148

149


START
75 Bz on OV101
1.01
2.28
3.65
4.54
5.33
5.79
6.33
7.31
7.75
9.83
9.61
10.99
11.61
11.94
12.67
13.02
13.66
15.23
16.01
17.39
18.19
18.87
19.34
20.27
20.89
21.67
22.59
22.96
23.51
23.83
24.97
25.81
26.15
26.94
27.37
27.73
28.19
29.26
29.59
29.95
30.32
31.03
31.39
32.73
33.37
34.08
35.01
36.27
38.38
38.78
39.55
40.08
41.16
41.89
42.49
42.97
44.48
46.96
48.57
49.72
51.28
52.66

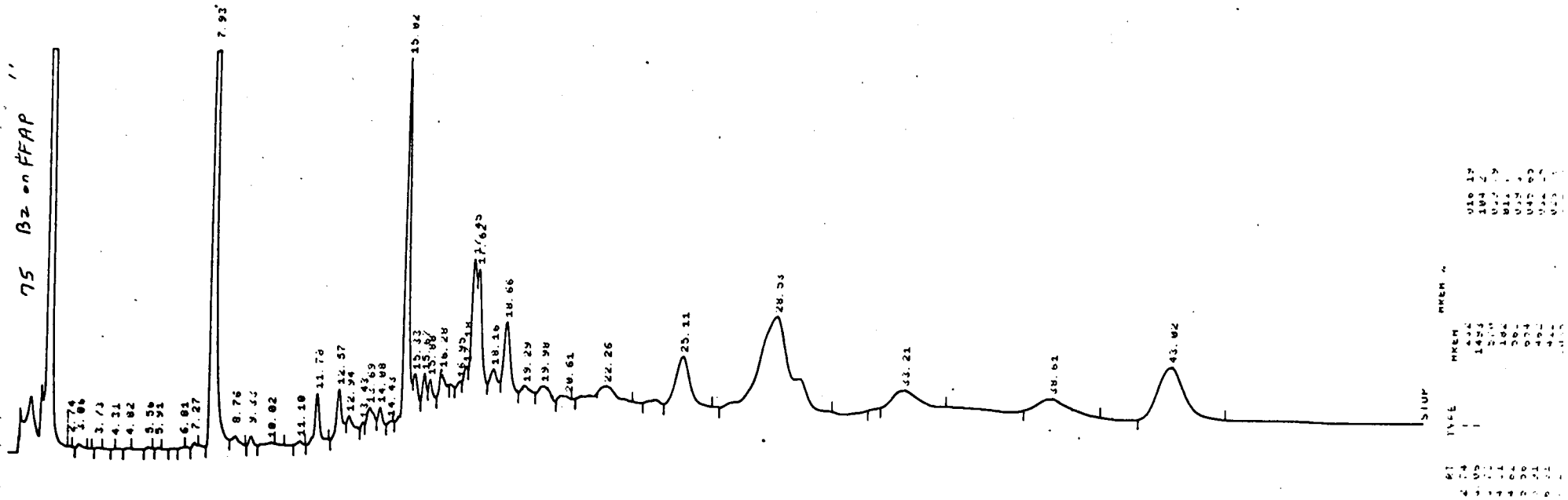
062

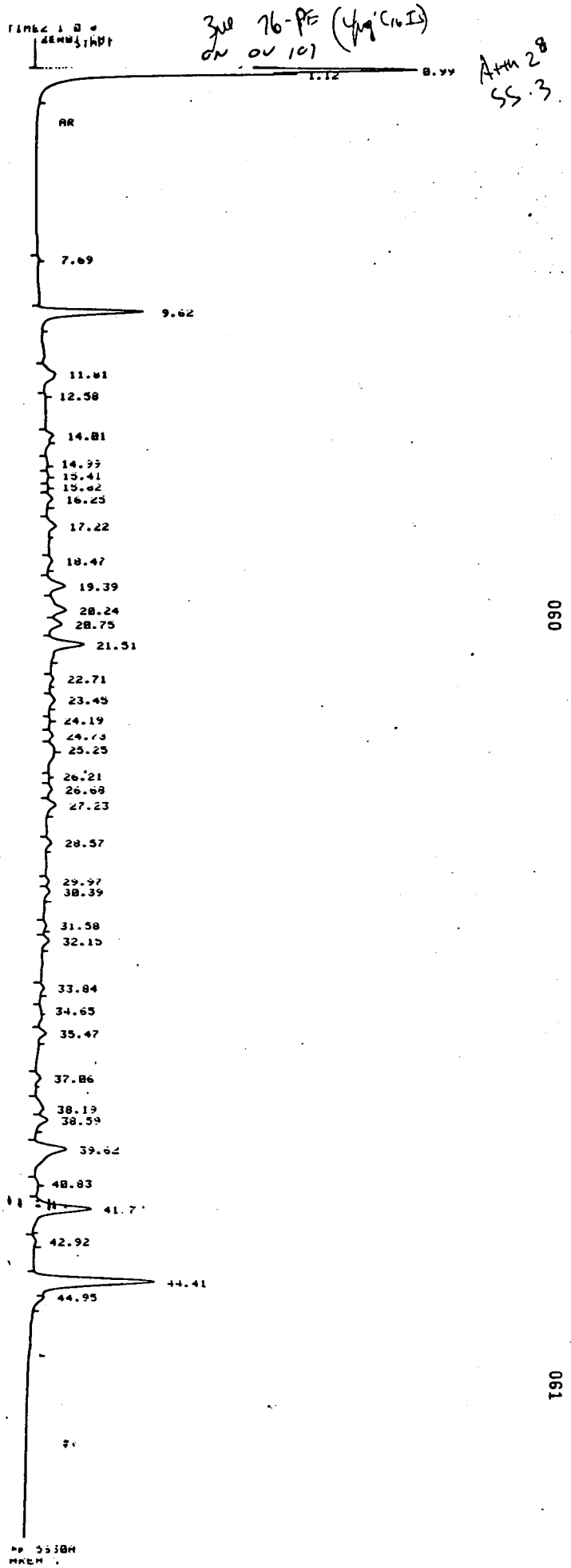
063

0

153

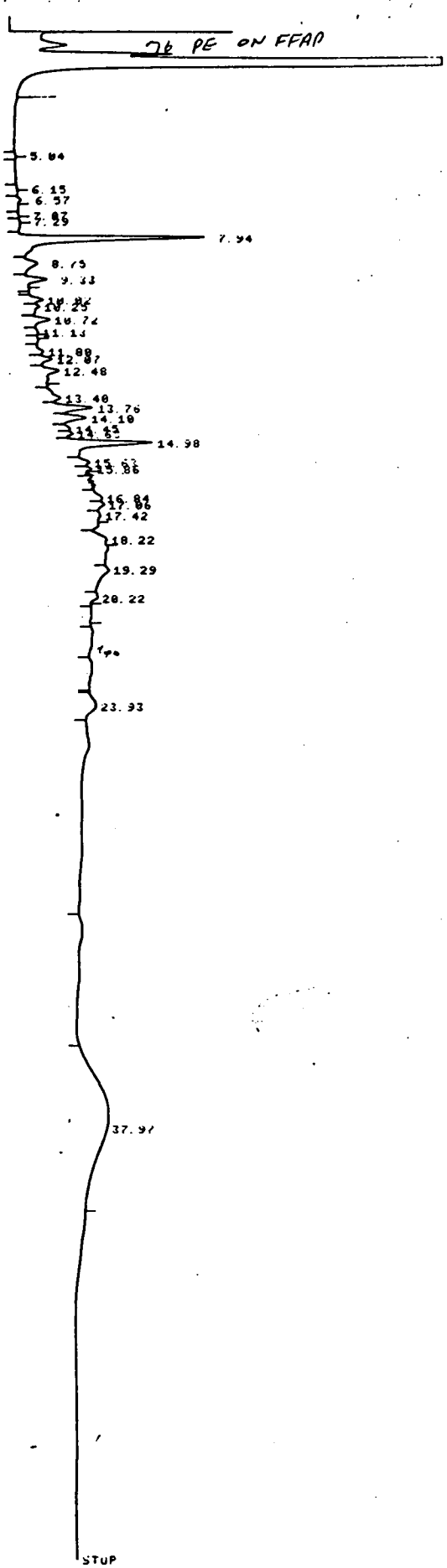
154




3µl 76-PF (µg'C16I3)
ON OV 101
Attn 2^8
SS.3
AR
7.69
9.62
11.81
12.58
14.81
14.99
15.41
15.62
16.25
17.22
18.47
19.39
20.24
20.75
21.51
22.71
23.45
24.19
25.25
26.21
26.68
27.23
28.57
29.97
30.39
31.58
32.15
33.84
34.65
35.47
37.86
38.19
38.59
39.62
40.83
41.7
42.92
44.41
44.95

060

061



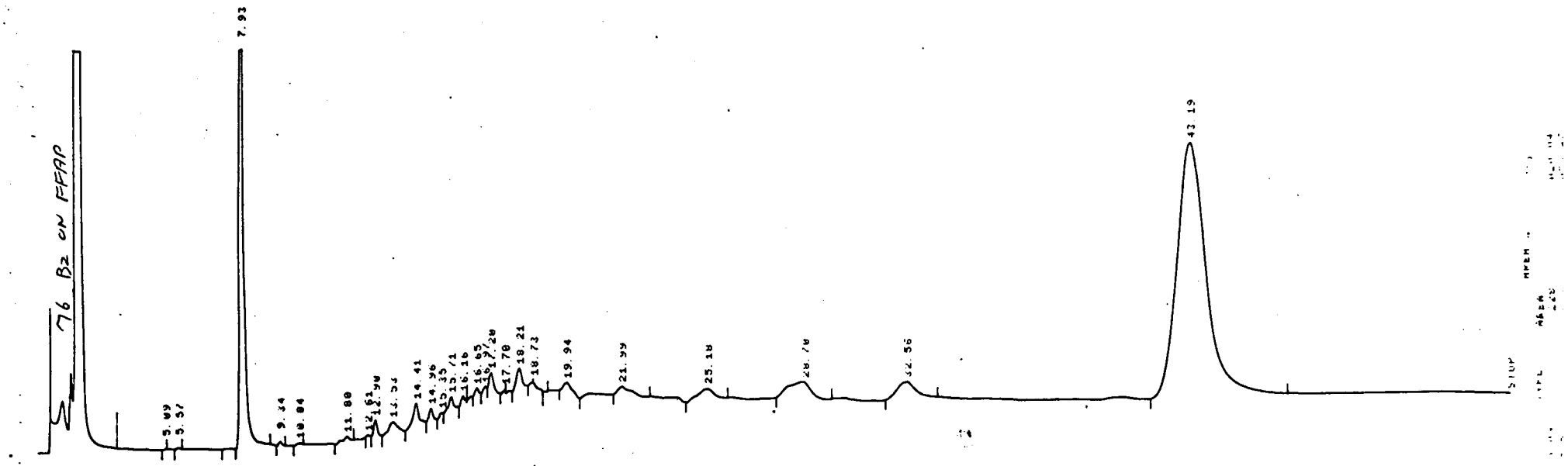
151

152

AR
9.17
9.61
12.94
13.68
14.35
15.13
16.53
17.38
18.85
19.39
19.68
21.98
23.58
27.37
25.54
25.89
26.77
27.43
27.77
29.29
29.99
31.11
31.75
32.97
33.59
34.89
36.44
36.73
38.85
38.83
39.58
40.19
41.06
41.57
42.46
43.57
47.84
48.51
50.22
52.82

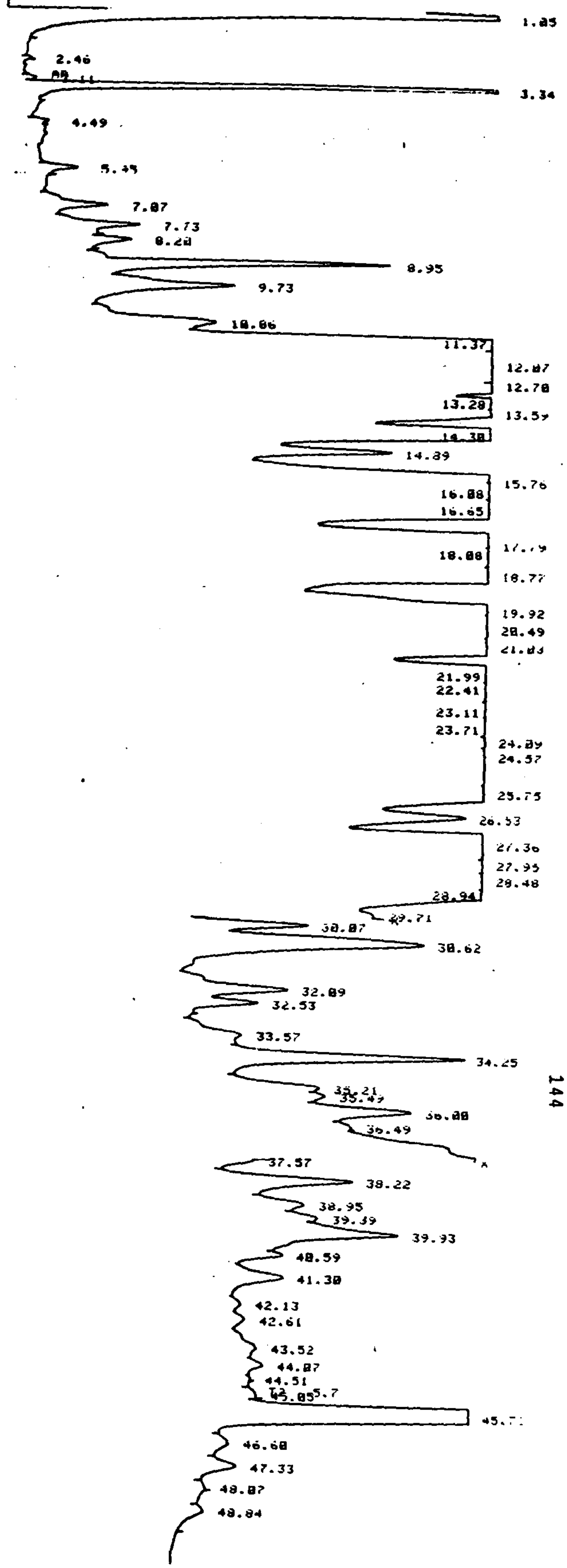
990

067


76 Bz on FFAP
5.69
5.97
7.93
9.34
10.84
11.80
12.61
12.99
14.34
14.41
14.96
15.35
15.71
16.16
16.65
17.20
17.70
18.21
18.73
19.94
21.99
25.18
28.78
32.56
43.19

ZERO CHT
START

- 2.5µl 77-BZ or OV101



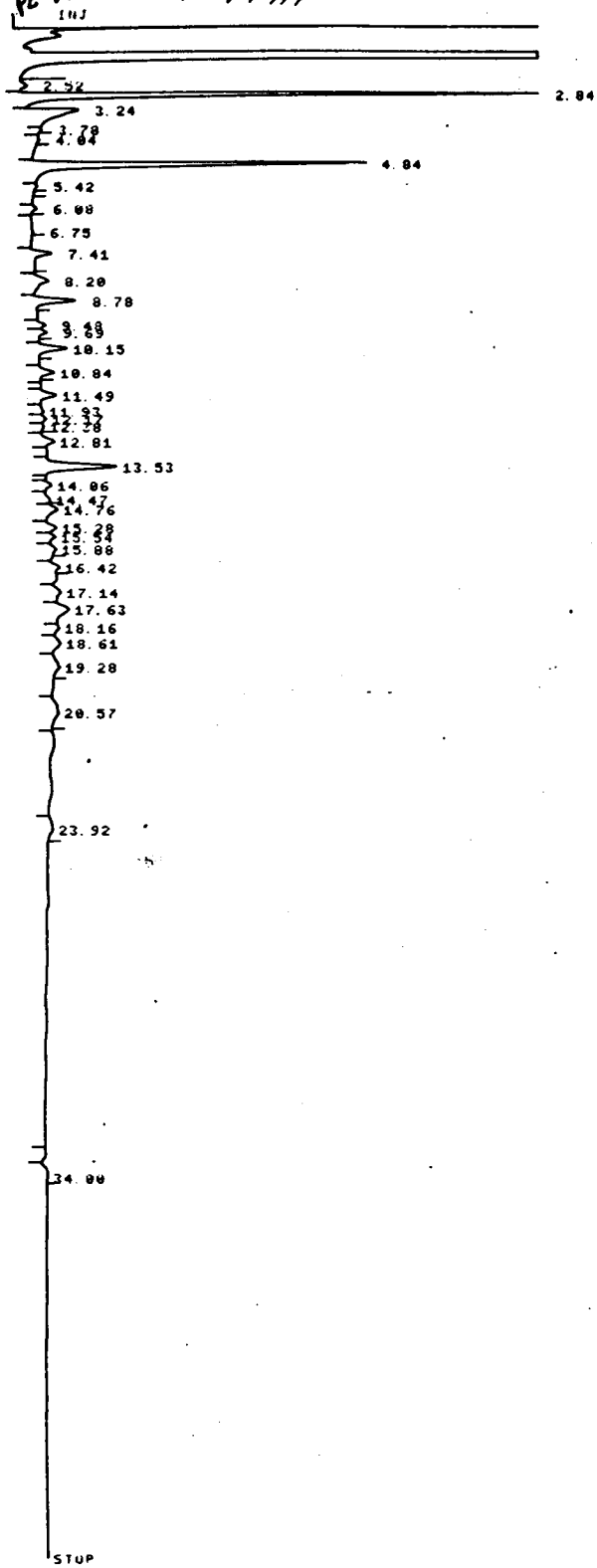
143

144

HP 5830A
AREA %

RT	AREA	AREA %
[illegible]	2001	0.003
3.34	[illegible]400	0.331
[illegible]	[illegible]	0.003
[illegible]45	[illegible]	0.01[illegible]

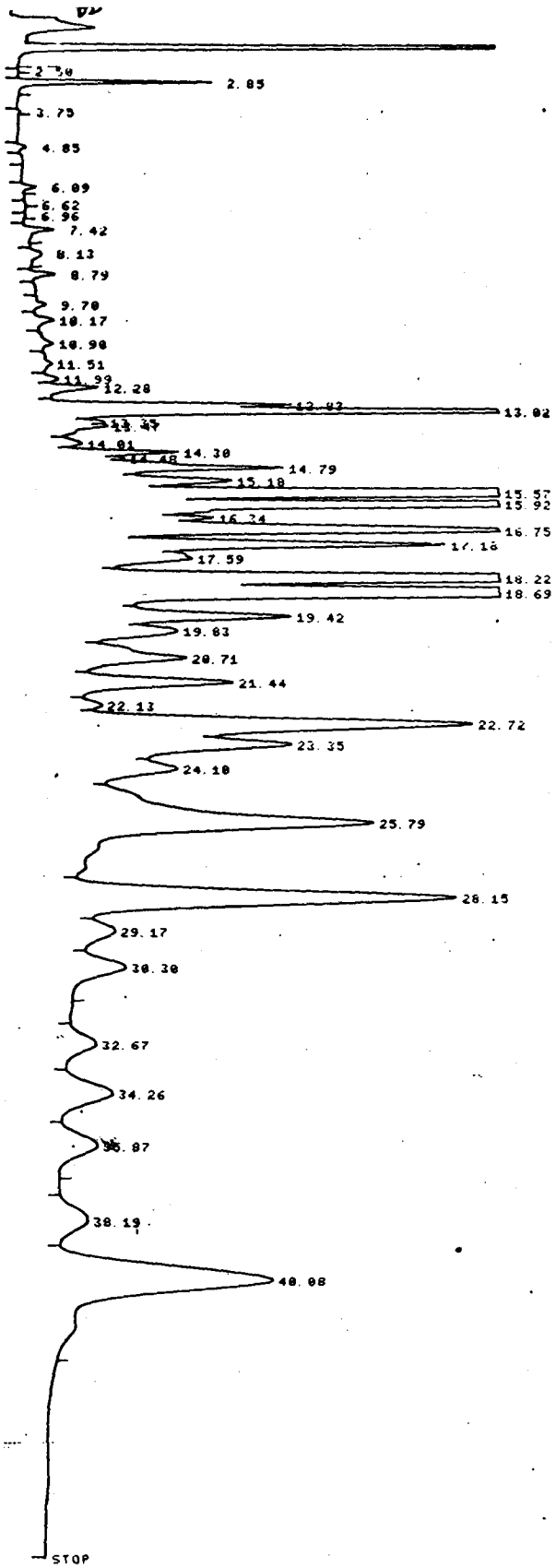
PC77 4µl ON FFAP



RT	TYPE	AREA	AREA %
2.52	TM	8559	1.454
2.84	TM	402645	61.277
3.24	TM	17620	2.791
3.78	TM	774	.122
4.04	T	617	.097
4.84		79759	12.6
5.42		4	.663
6.08		9	1.54
6.75		9	1.51
7.41		3	.5
8.20		6	.971
8.78	M	1	1.501

161

162

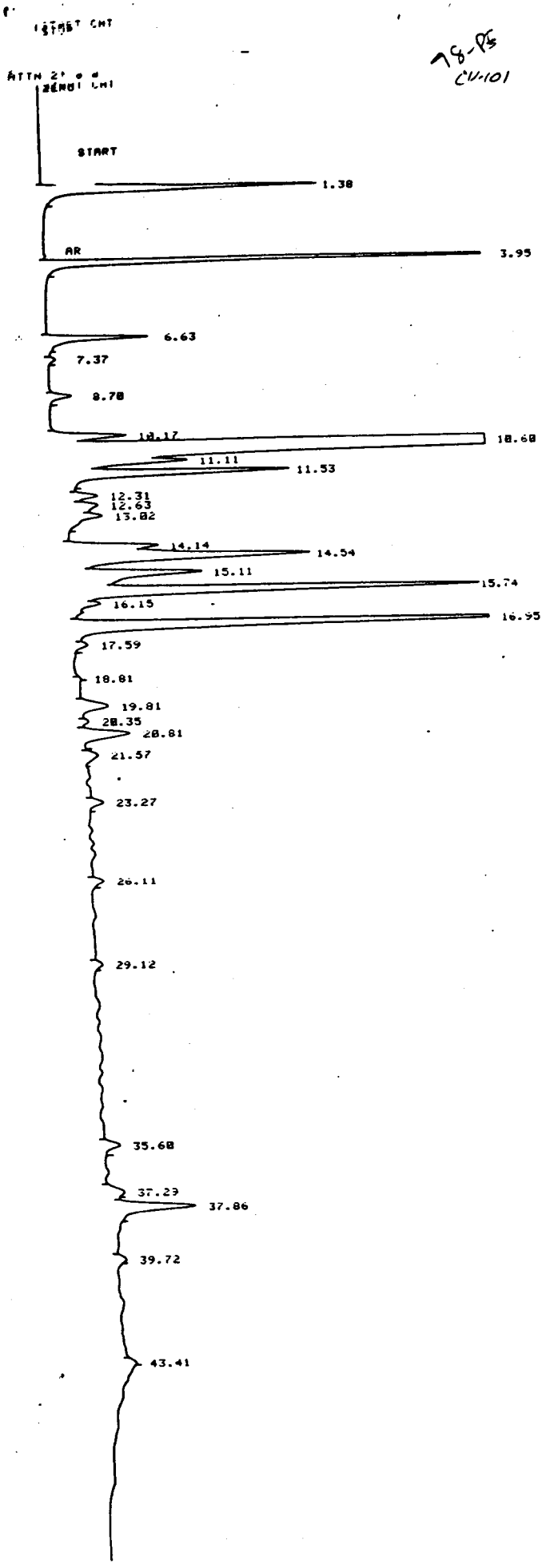


164

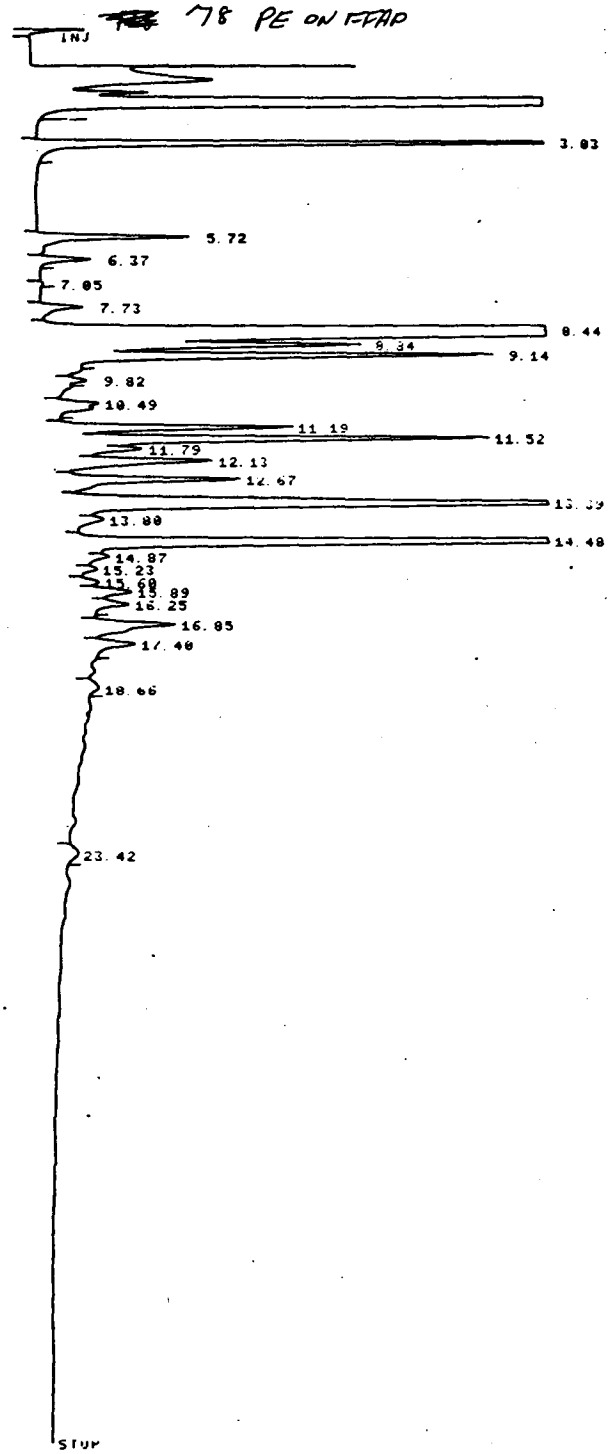
165

AREA %

RT	TYPE	AREA	
[illegible]		472	003 226
[illegible]		74815	510 3
[illegible]		924	006 303
[illegible]		2489	02[illegible] 8
[illegible]		6871	046 87
[illegible]		598	004 079
[illegible]		862	006 816
[illegible]		15820	107 9
[illegible]		[illegible]	078 8
[illegible]		[illegible]	[illegible]

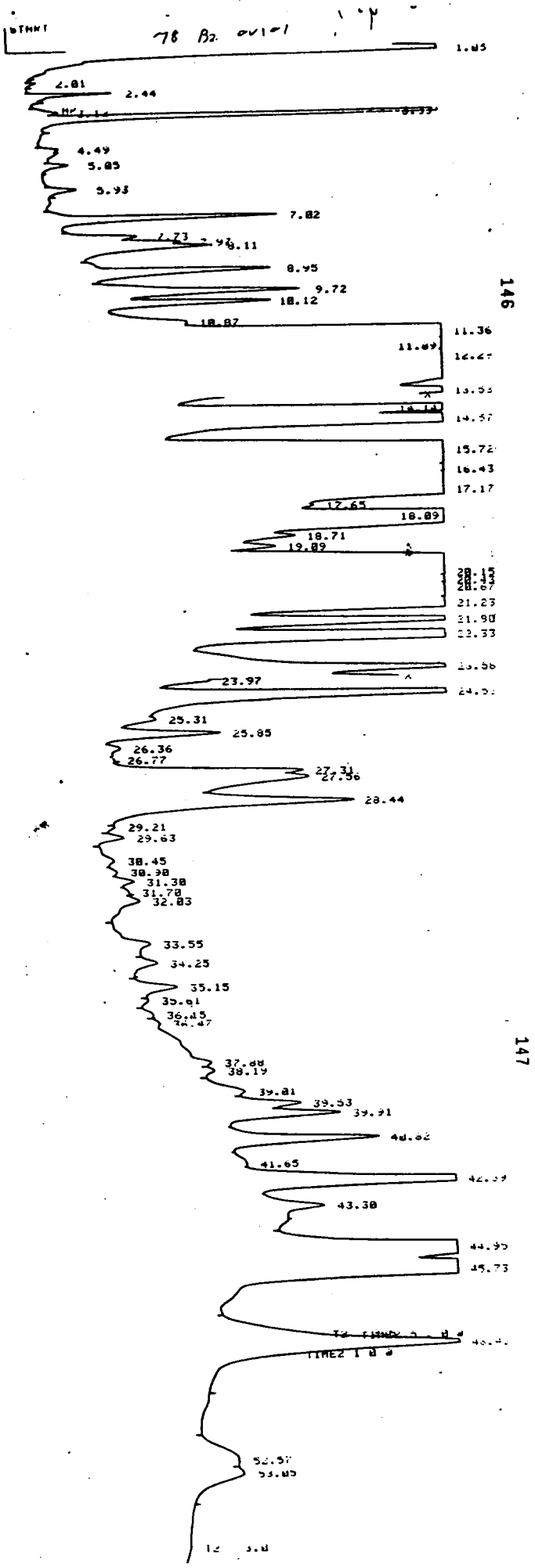

START CHT
ATTN 2^ o d
ZERO1 CHT
START
1.38
AR
3.95
6.63
7.37
8.78
10.17
10.68
11.11
11.53
12.31
12.63
13.82
14.14
14.54
15.11
15.74
16.15
16.95
17.59
18.81
19.81
20.35
20.81
21.57
23.27
26.11
29.12
35.68
37.29
37.86
39.72
43.41
CV-101
007
008

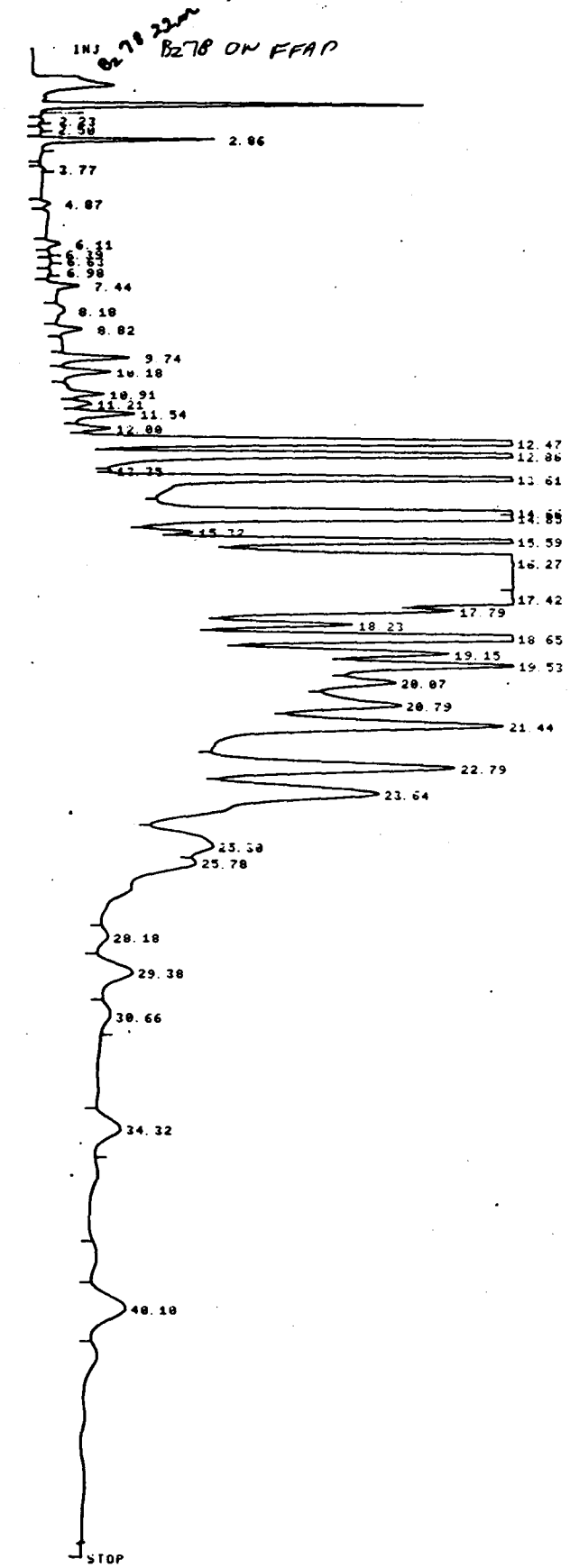
78 PE ON FFAP

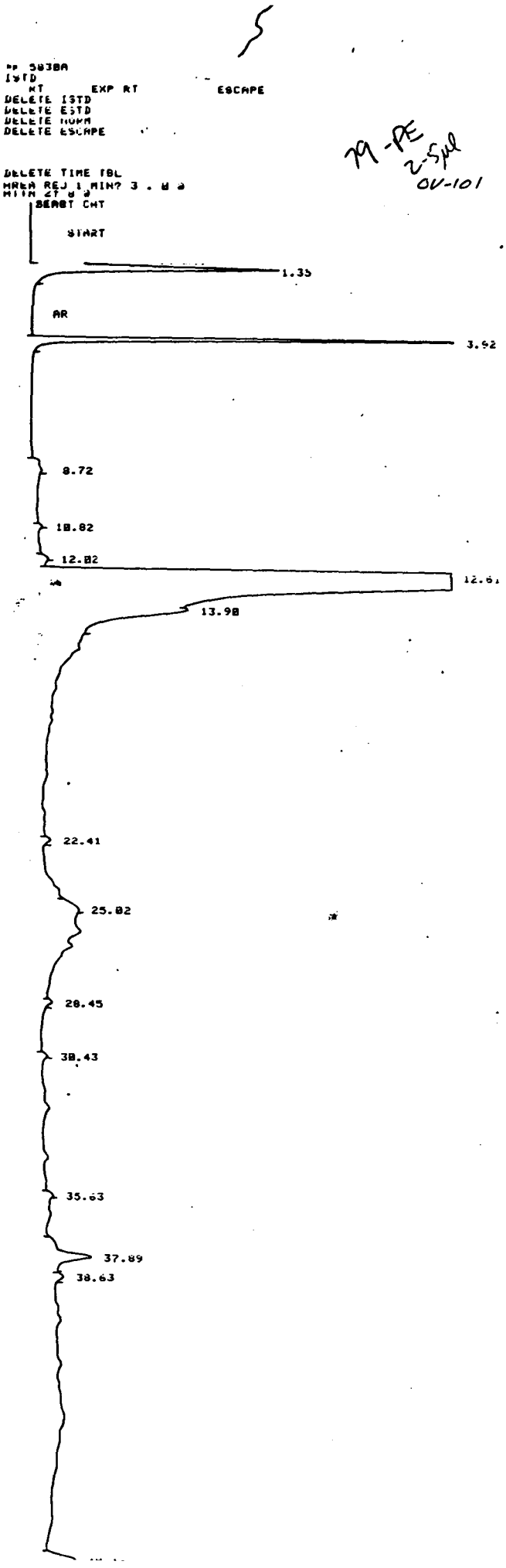


	RT	TYPE	AREA	AREA %
1	3.03		144466	4.871
2	5.72		39847	1.343
3	6.37	M	12195	.411
4	7.05		11408	.384
5	8.44	M	1598814	53.9
6	9.14	M	84.99	2.855
7	9.82	M	112760	3.801
8	10.49		19108	.644
9	11.19		64611	2.178
10	11.52	M	121964	4.109
11	11.79	M	23882	.805
12	12.13	M	51308	1.729
13	12.67	M	34300	1.156
14	13.39	M	449000	15.13
15	13.80	M	12741	.429

095


78 Bz ovicl
1.85
2.01
2.44
4.49
5.05
5.93
7.82
8.11
8.95
9.72
10.12
10.87
11.36
11.69
14.57
15.72
16.43
17.17
17.65
18.09
18.71
19.09
21.23
21.90
23.97
25.31
25.85
26.36
26.77
27.31
27.56
28.44
29.21
29.63
30.45
31.38
31.70
32.83
33.55
34.25
35.15
36.45
37.68
38.19
39.81
39.53
39.91
41.65
43.30
52.57
55.85
146
147

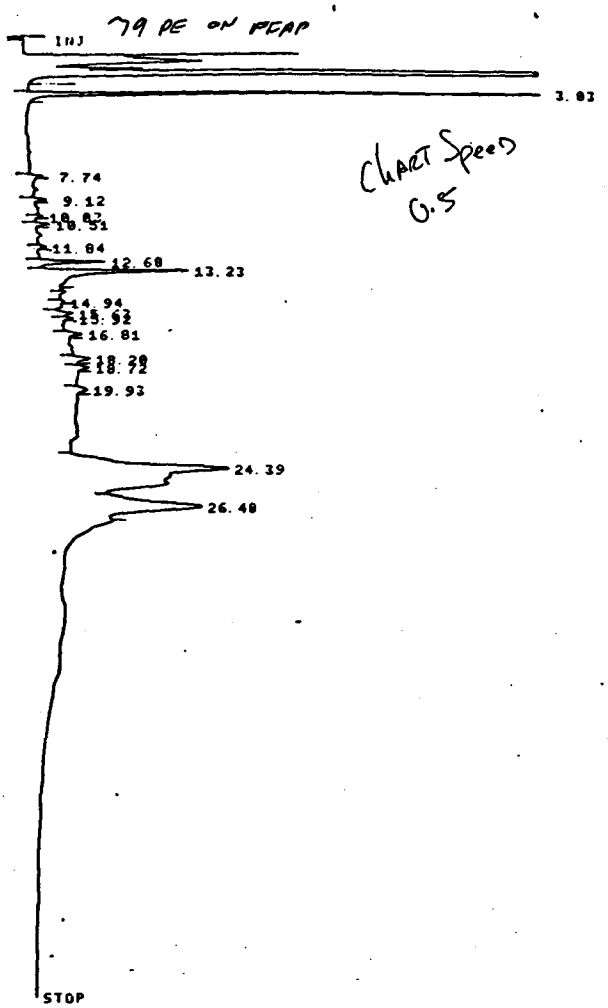

INJ
Bz78 ON FFAP
2.86
3.77
4.87
6.11
6.99
7.44
8.18
8.82
9.74
10.18
10.91
11.21
11.54
12.00
12.47
12.86
13.61
15.59
16.27
17.42
17.79
18.23
18.65
19.15
19.53
20.07
20.79
21.44
22.79
23.64
25.78
28.18
29.38
30.66
34.32
40.18
STOP



79-PE
2-Spl
OV-101

013

014



097

RT	TYPE	AREA	AREA %
3.03		131557	23.55
12.68		18426	3.28
13.23	M	63421	11.35
24.39		248209	44.43
26.48	M	97187	17.4

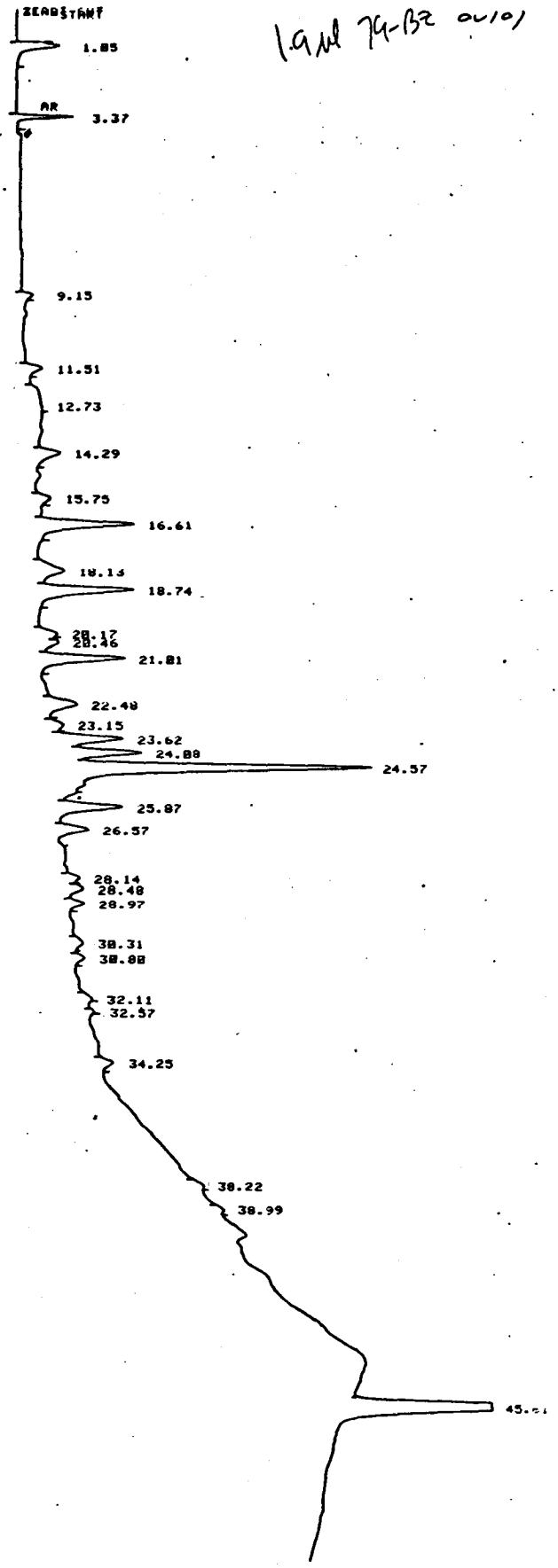
HP 3380A
DLY 2.
MV/M 1.00
STOP 60
ATTN 16
REJECT 10000

ISTD NU REF

RT	TYPE	AREA	=> AREA %
3.03		131557	22.01
7.74		1821	.304 6
9.12		3115	.521 1
10.84		1304	.218
10.51		3566	.596 6
11.84		2276	.381 1
12.68		18326	3 066
13.23	M	63421	10 61
14.94		867	145
15.92		4256	711 1
16.81	M	2841	475 1
16.61		4647	777 4
18.20		5621	940 1
18.72		1985	656 1
19.93		4019	772 1
24.39		248209	41 51
26.48	M	97187	16 26

098

(1) - PE
2nd Trial



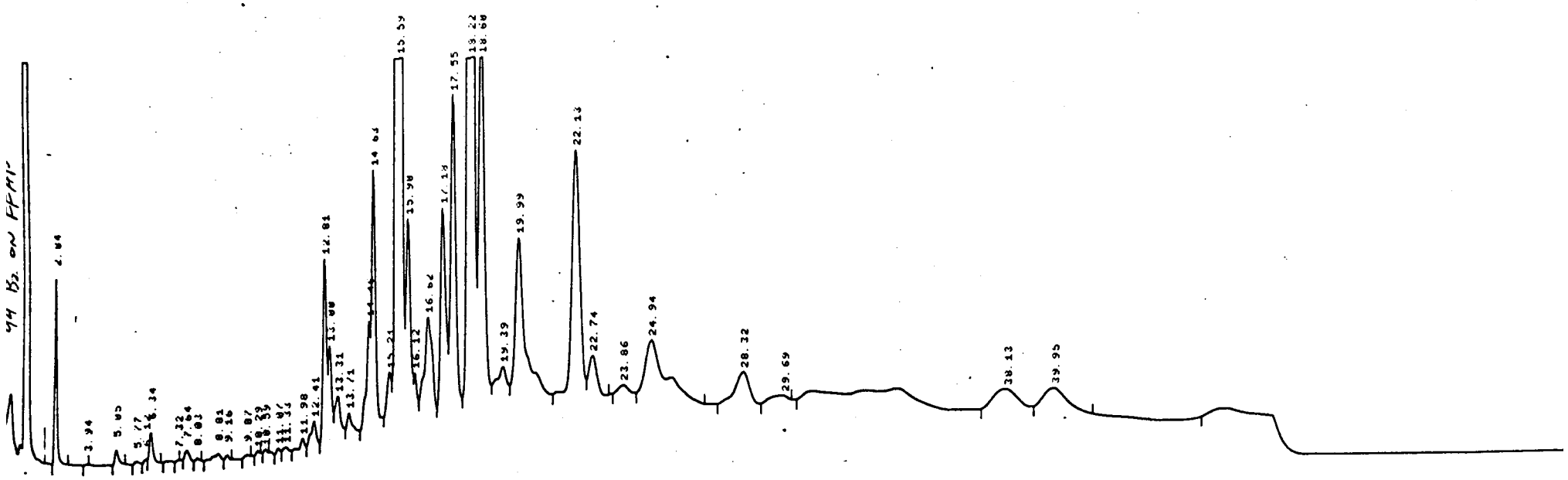
1.9ml 74-B2 01/01

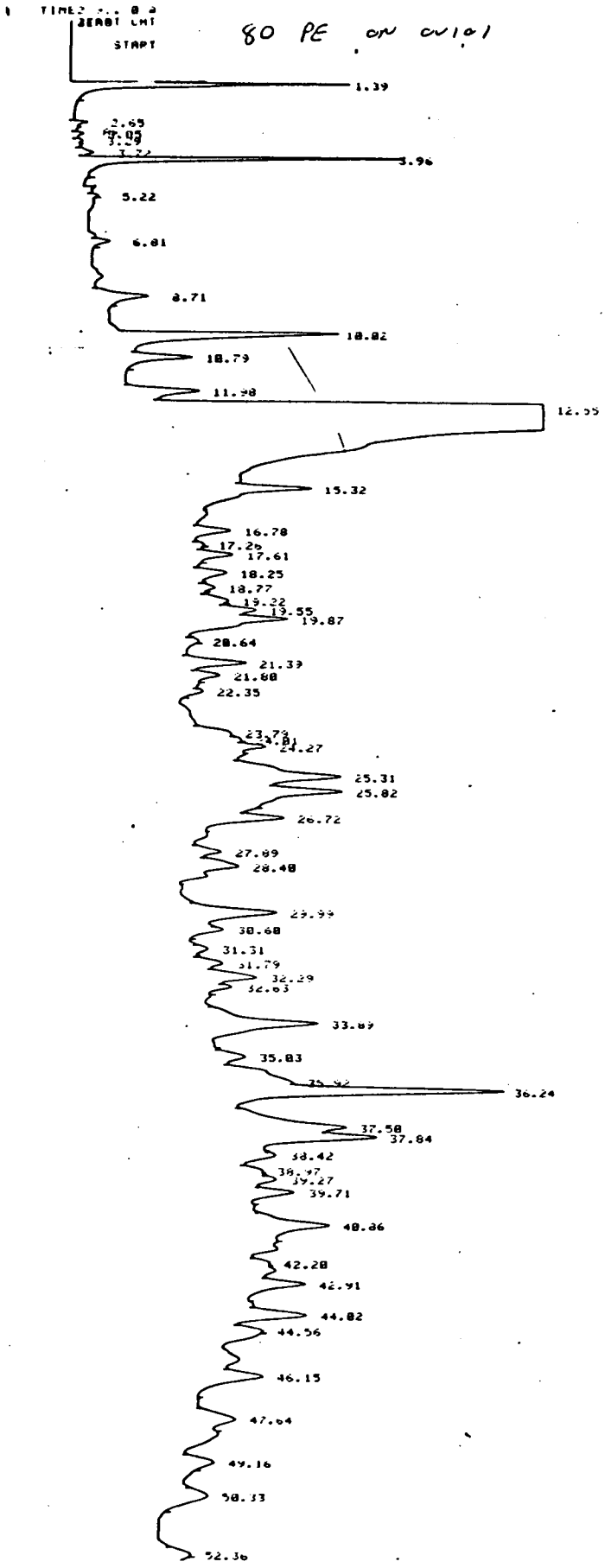
152

153

** 5030A
*AREA %

RT	AREA	AREA %
3.37	213100	14.288
9.15	6554	0.439
11.51	13618	0.845
12.73	8253	0.554
14.29	22240	1.490

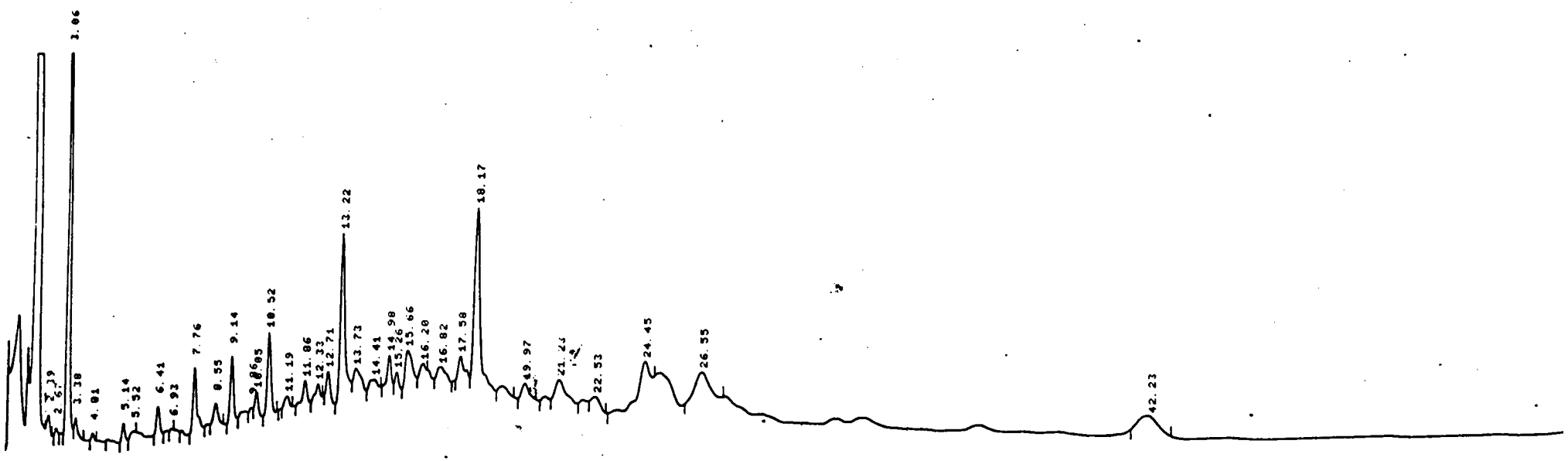

4.84
3.94
5.93
5.77
6.34
7.32
7.84
8.03
8.81
9.16
9.87
10.33
10.59
11.14
11.47
11.98
12.41
12.84
13.00
13.31
13.71
14.04
14.64
15.21
15.59
15.98
16.12
16.64
17.18
17.55
19.22
18.68
19.39
19.99
22.14
22.74
23.86
24.94
28.32
29.69
38.13
39.95



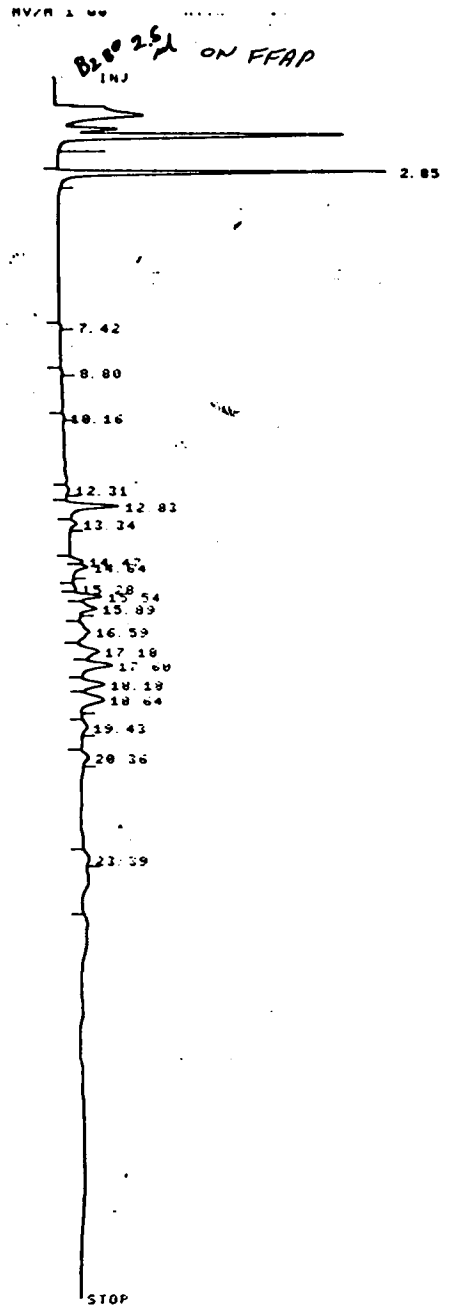
		0.051
		0.035
		0.140

015

016

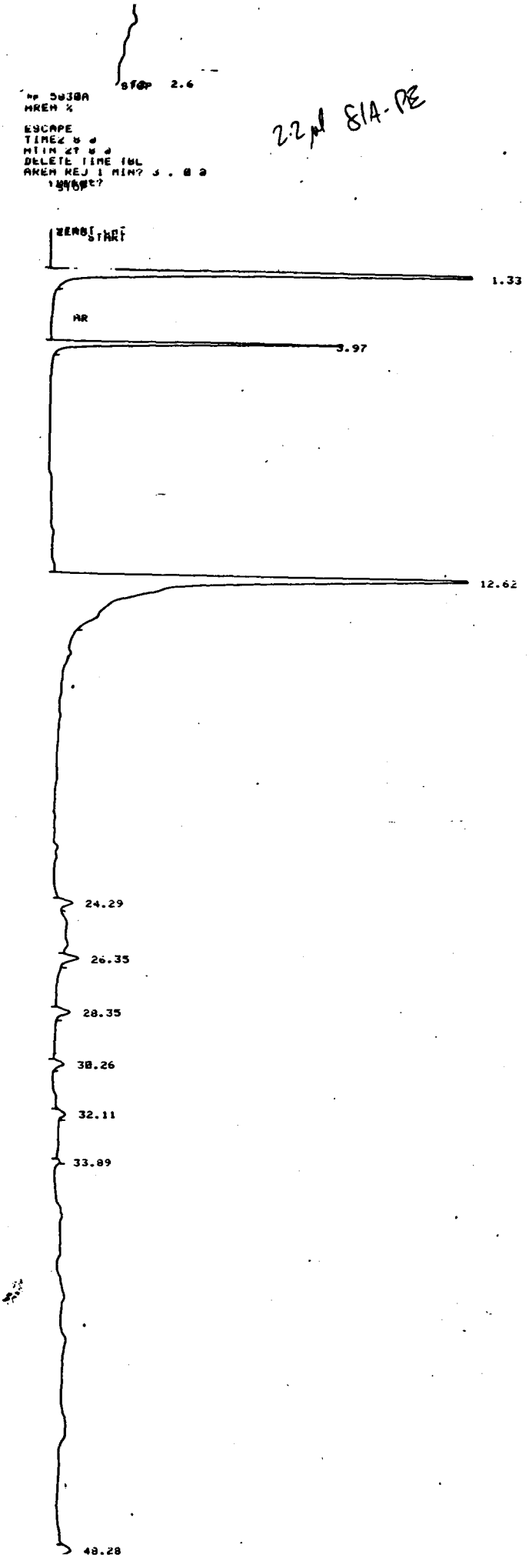

099
100
3.06
2.39
3.38
4.81
5.14
5.52
6.41
6.93
7.76
8.55
9.14
10.52
11.19
11.86
12.33
12.71
13.22
13.73
14.41
14.98
15.66
16.20
16.82
17.58
18.17
19.97
22.53
24.45
26.55
42.23

154
155
1.93
9.83
11.44
12.13
14.28
14.93
16.17
16.61
18.15
18.79
22.34
22.75
23.78
24.54
25.18
26.31
27.33
28.92
32.17
34.25
35.68
36.15
36.49
37.63
38.19
39.17
39.59
39.90
40.23
40.63
41.68
42.87
43.12
43.44
44.85
45.54
47.94

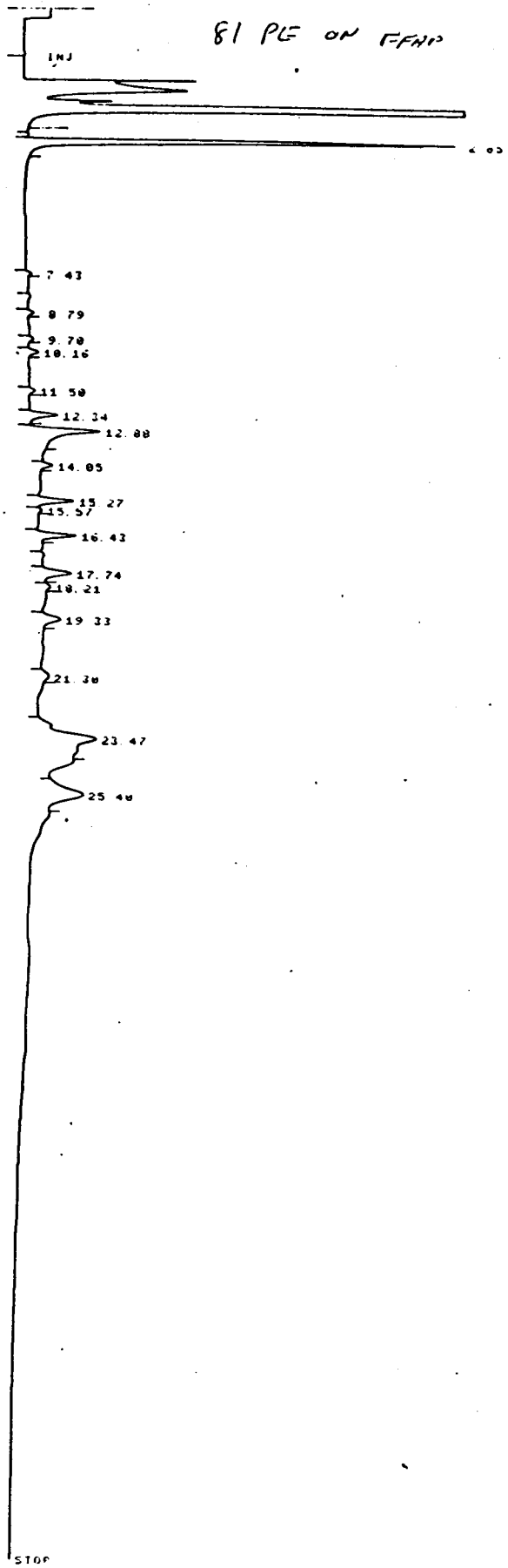


PT	TYPE	AREA	AREA %
2.85		117113	37.17
7.42		853	270.7
8.80		1178	373.9
10.16		941	299.0
12.31		2112	670.3
12.83		30966	9 796
13.34	M	5945	1 887
14.47		5973	1 896
14.64	M	10459	3.322
15.28		1031	327.4
15.54	M	14261	4 892
15.89	M	12549	3 983
16.59		11947	3 793
17.18	M	18419	5 789
17.60	M	25121	8 29
18.19	M	19647	5 918
18.64	M	22116	7 021
19.43		6564	2 115
20.36		5948	1 956
23.39		3996	1 268

MP 1.00M
DLY 2 STOP 60 REJECT OFF
MV/M 1 00 MTN 12

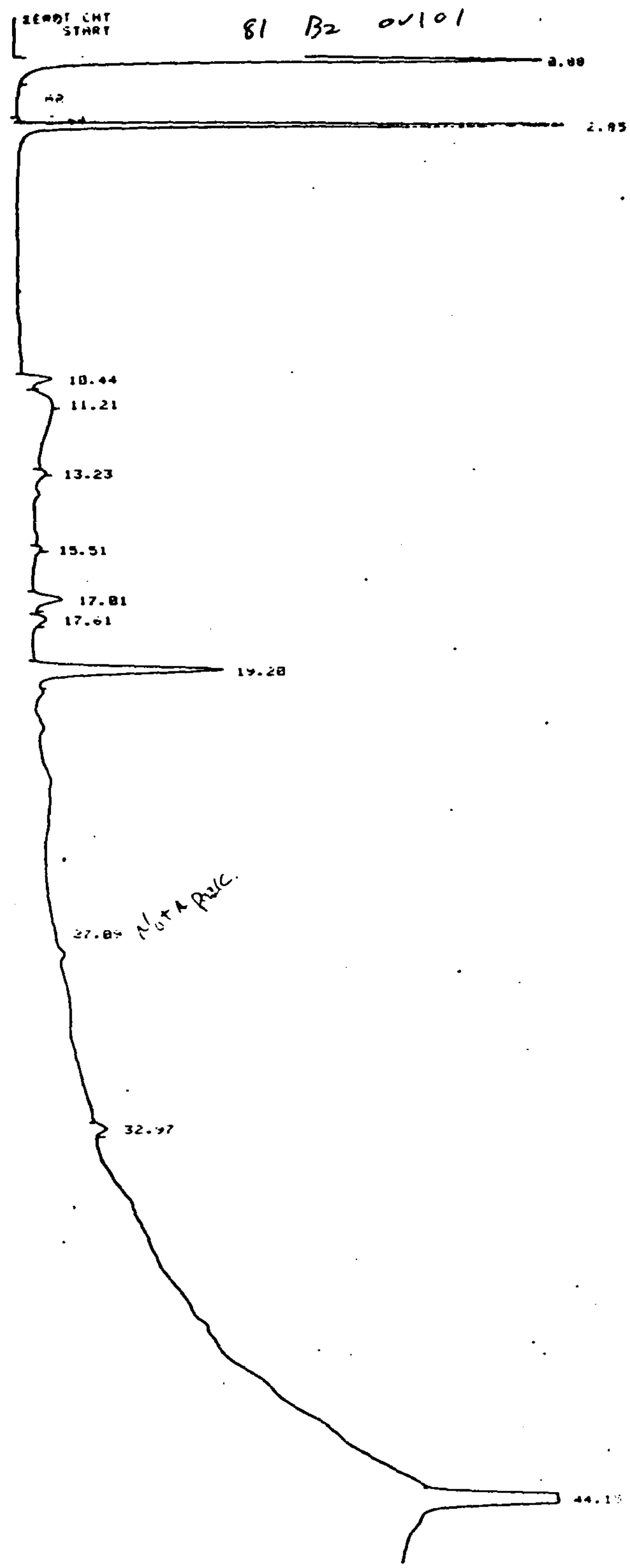

STOP 2.6
HP 5938A
AREA %
ESCAPE
TIME% % d
MIN AT % d
DELETE TIME TBL
AREA REJ ? MIN? 5 . 0 0
STOP
ZERO
START
1.33
AR
3.97
12.62
24.29
26.35
28.35
30.26
32.11
33.89
48.28
925
926

2.2 µl 814-PE


81 PE ON FFAP
INJ
7.43
8.79
9.70
10.16
11.50
12.34
12.88
14.05
15.27
15.57
16.43
17.74
18.21
19.33
21.30
23.47
25.46
STOP

107

108



161

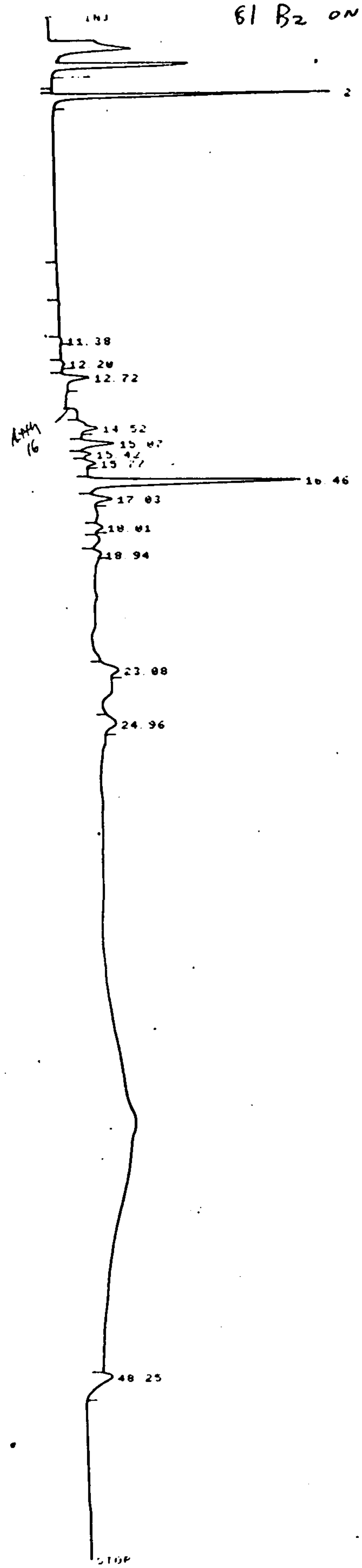
162

[illegible] 5330A
AREA %

RT	AREA	AREA %
2.64	512	0.85[illegible]
2.[illegible]5	311700	34.[illegible]31
10.44	1[illegible]100	2.104
[illegible]	[illegible]	1.0[illegible]
[illegible]	1.[illegible]	0.[illegible]1
1[illegible].[illegible]1	1[illegible]0	0.146
[illegible].01	[illegible]4390	[illegible]
[illegible]	[illegible]11[illegible]	0.[illegible]4
1[illegible].28	174[illegible]00	1[illegible].[illegible]
3[illegible].9[illegible]	[illegible]	1.011
[illegible].15	[illegible]00	[illegible]

[illegible]F 1.0000 E+ 0

81 B2 ON FFAP



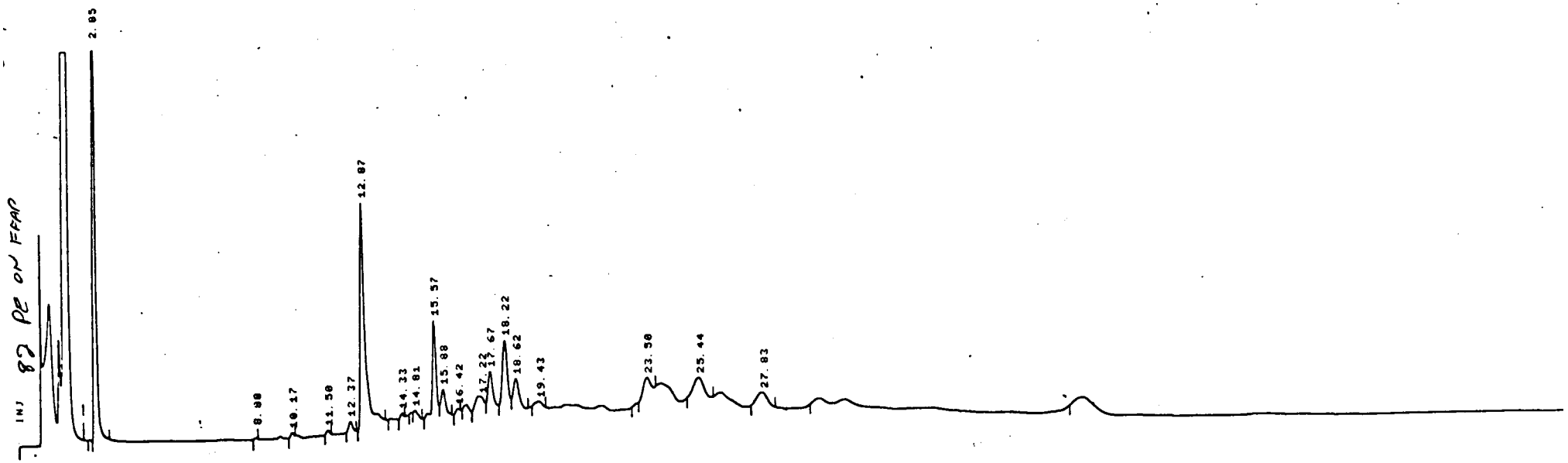
AREA %

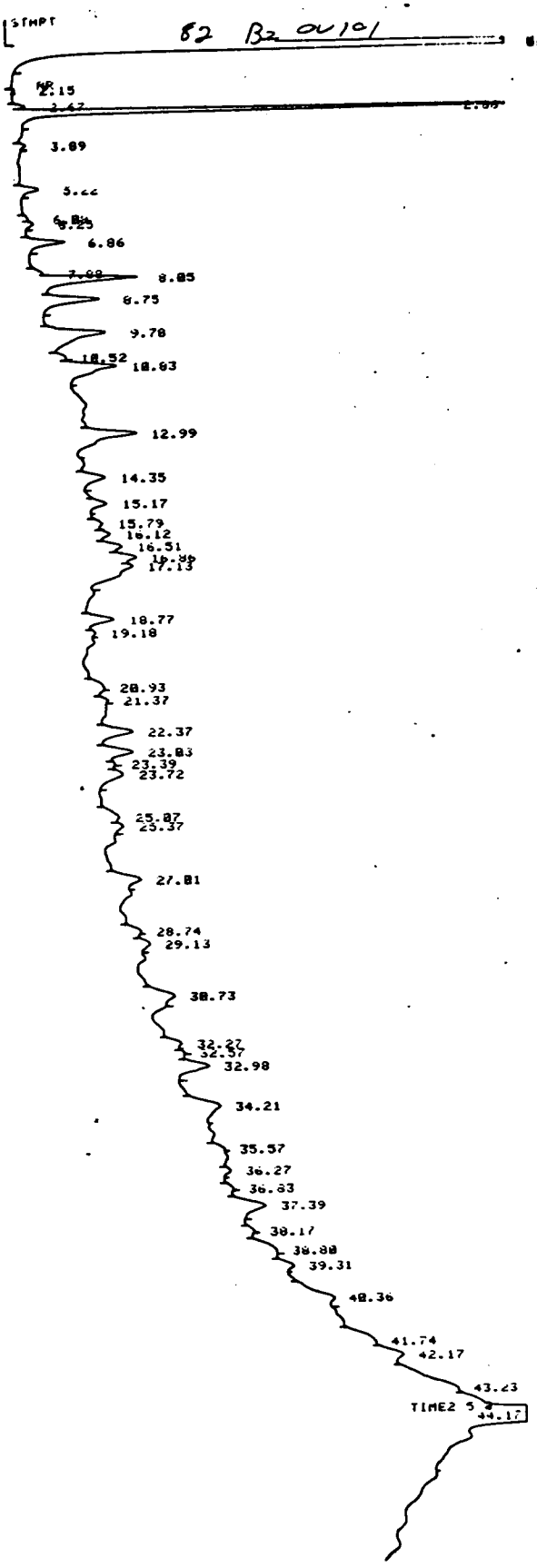
RT	TYPE	AREA	AREA %
[illegible]		[illegible]	[illegible]

176

177

027
028
START
82 PE on OV 101
1.36
AR
3.96
18.22
12.62
17.47
17.97
20.23
21.87
22.43
23.85
25.31
26.69
27.83
38.49
35.28
35.87
37.43
48.87
48.97
42.34


INJ 82 pg on FFAP
2.85
8.98
10.17
11.50
12.37
12.87
14.33
14.81
15.57
15.88
16.42
17.22
17.67
18.22
18.62
19.43
23.50
25.44
27.83



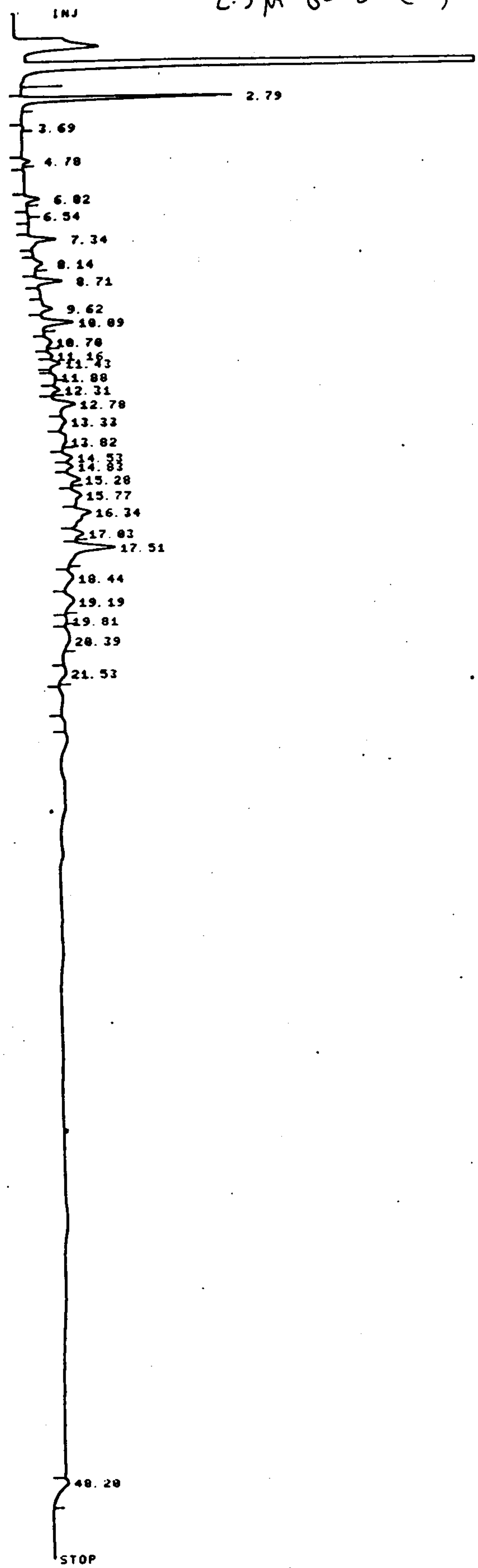
163

164

AREA %

RT	AREA	AREA %
2.15	[illegible]	0.026
[illegible]	[illegible]	0.112
[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	0.051
[illegible]	[illegible]	0.316
[illegible]	[illegible]	[illegible]

-2.5 µl 82 Bz [illegible] on FFAP

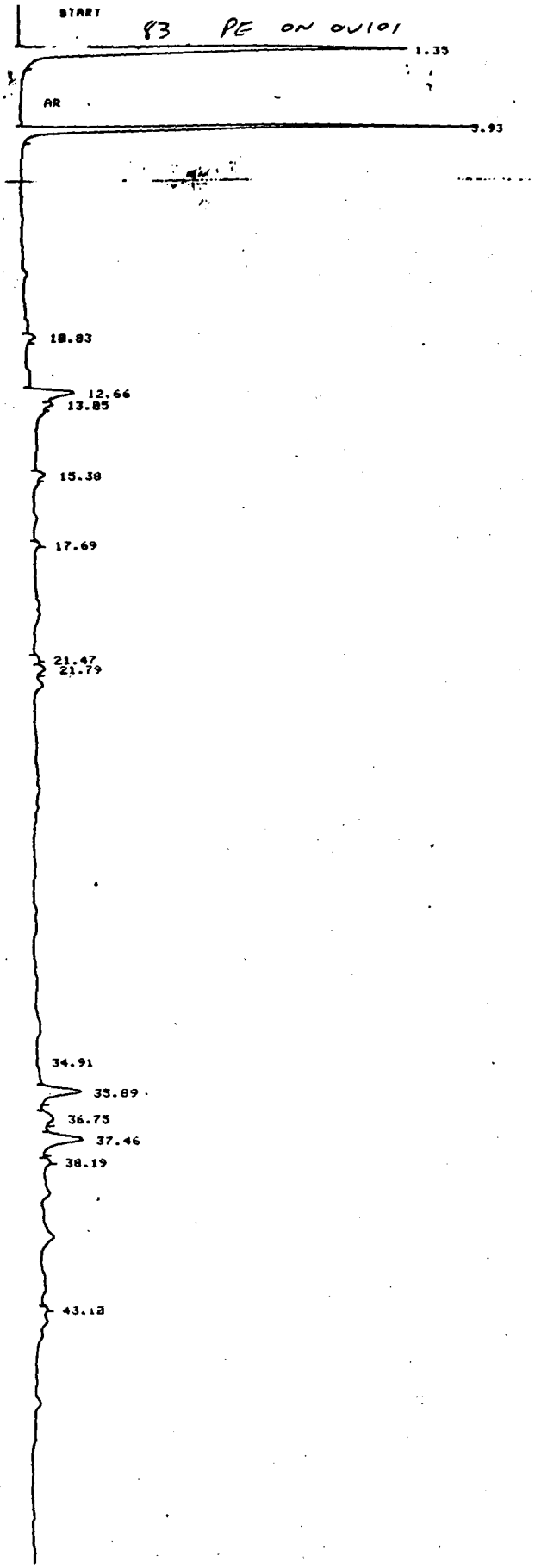


179

AREA %

RT	TYPE	AREA	AREA %
[illegible]		[illegible]	[illegible]3
[illegible]69		1061	.294 5
4.78		[illegible]585	[illegible]5 2
6.02		7076	1.964
6.[illegible]		510	.147 1
[illegible]		[illegible]	4.55
[illegible]		[illegible]	1.567

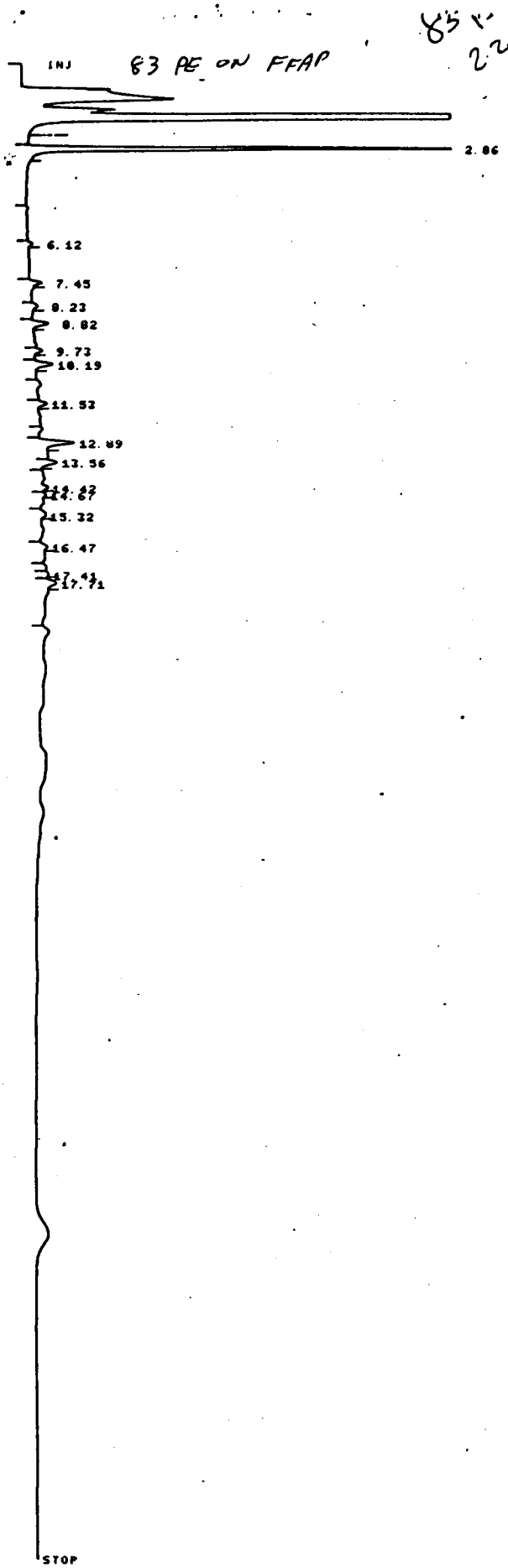
180



030

** 5030A
AREA %

RT	AREA	AREA %
3.93	337400	57.337
10.83	5051	1.315
12.66	45408	10.965
13.85	10270	2.488
15.38	5651	1.372
17.69	[illegible]	0.471
21.47	[illegible]	0.367
21.79	5676	1.371
35.89	42800	10.383
36.75	10410	2.514
[illegible]	[illegible]	10.522

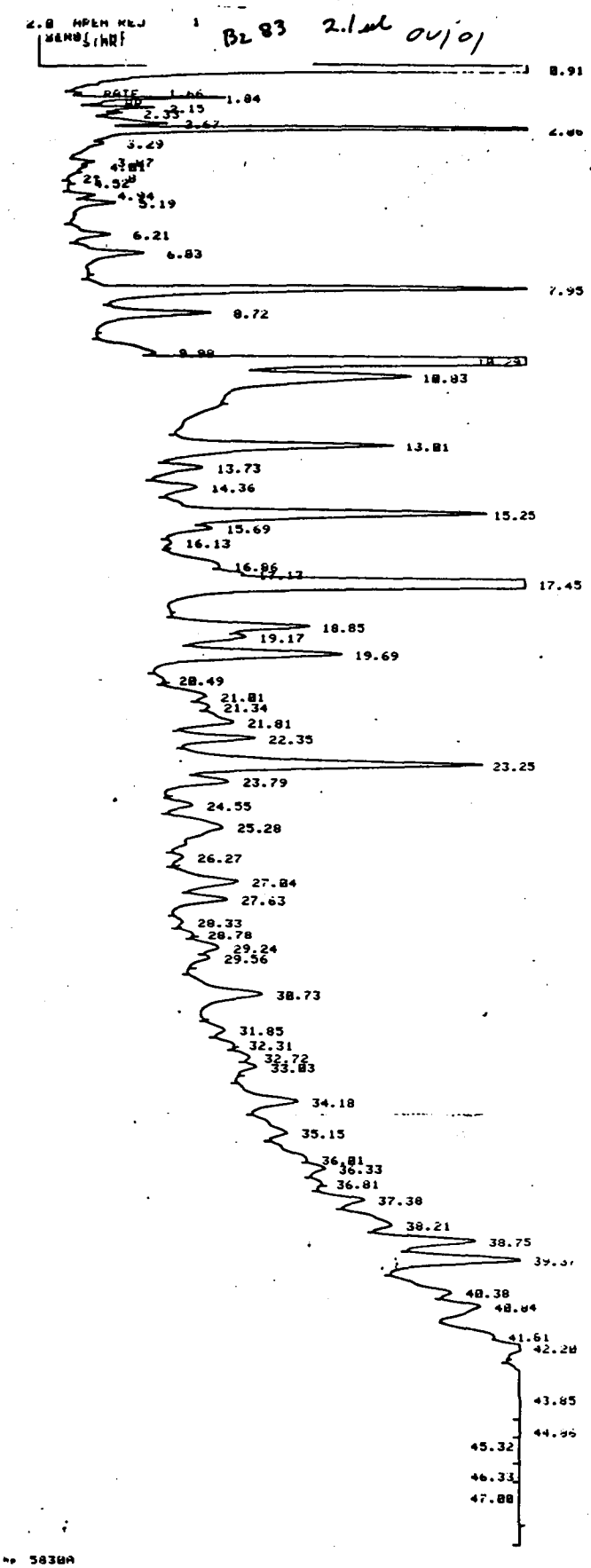


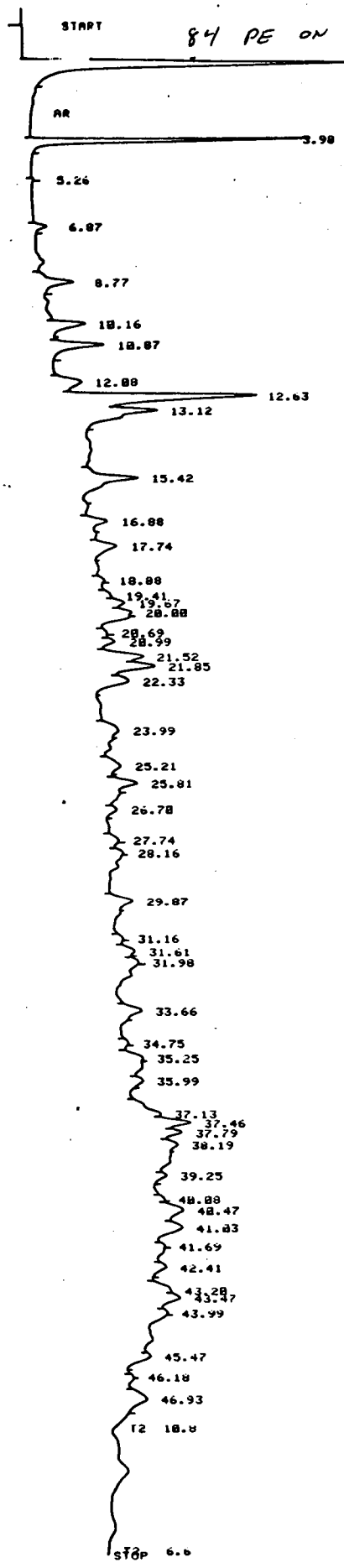
83 V. 2 µl

112

113

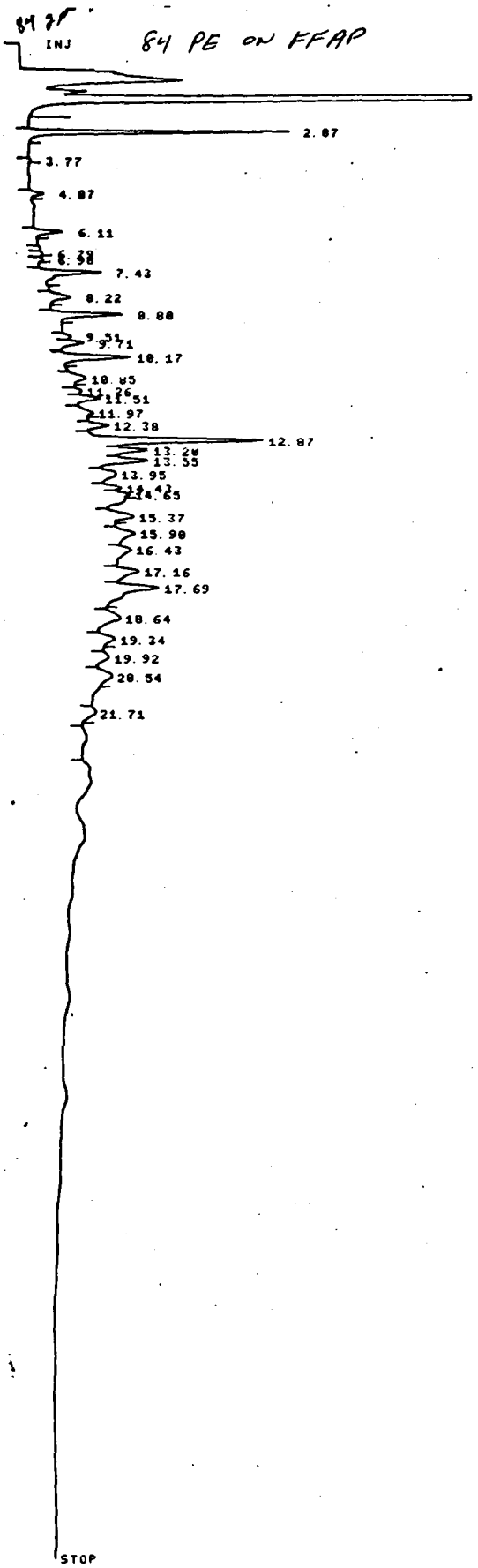
RT	TYPE	AREA	AREA %
2.86		105675	69.17
6.12		1373	898 7
7.45		2340	1.532
8.23		1865	1.221
8.82		4826	3.159
9.73		1761	1.153
10.19		5669	3.709
11.52		[illegible]	[illegible]


Bz 83 2.1 ml 01/01
8.91
1.84
3.67
5.19
6.21
6.83
7.95
8.72
10.83
13.81
13.73
14.36
15.25
15.69
16.13
17.45
18.85
19.17
19.69
20.49
21.81
21.34
21.81
22.35
23.25
23.79
24.55
25.28
26.27
27.84
27.63
28.33
28.78
29.24
29.56
30.73
31.85
32.31
32.72
33.83
34.18
35.15
36.81
36.33
36.81
37.38
38.21
38.75
40.38
41.61
42.28
43.85
45.32
46.33
47.88
166
167

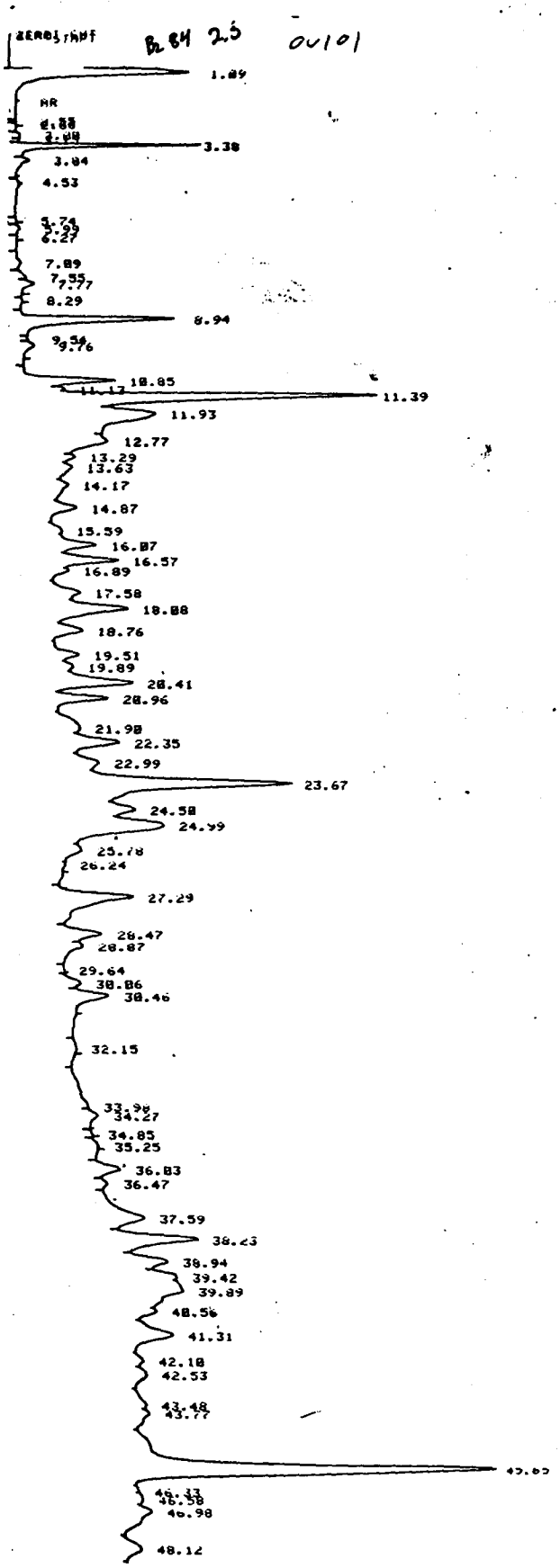

START
84 PE ON OV 101
1.39
AR
3.98
5.26
6.87
8.77
10.16
10.87
12.08
12.63
13.12
15.42
16.88
17.74
18.88
19.41
19.67
20.08
20.69
20.99
21.52
21.85
22.33
23.99
25.21
25.81
26.78
27.74
28.16
29.87
31.16
31.61
31.98
33.66
34.75
35.25
35.99
37.13
37.46
37.79
38.19
39.25
40.08
40.47
41.03
41.69
42.41
43.28
43.47
43.99
45.47
46.18
46.93
T2 10.8
STOP 6.6

034

035



RT	TYPE	AREA	AREA %
2.87		52083	12.73
3.77		566	.138
4.87		3132	.766
6.11		6919	1.693
6.29		508	.124
6.58		715	.175
7.43		17712	4.335
8.22		8441	2.076



172

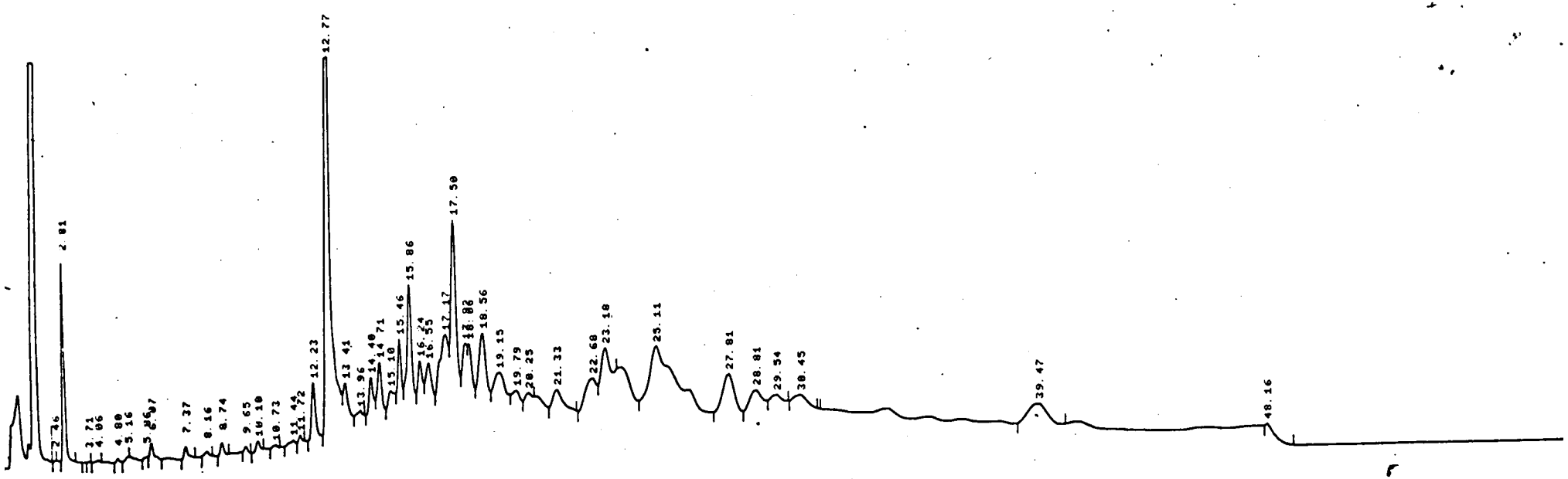
173

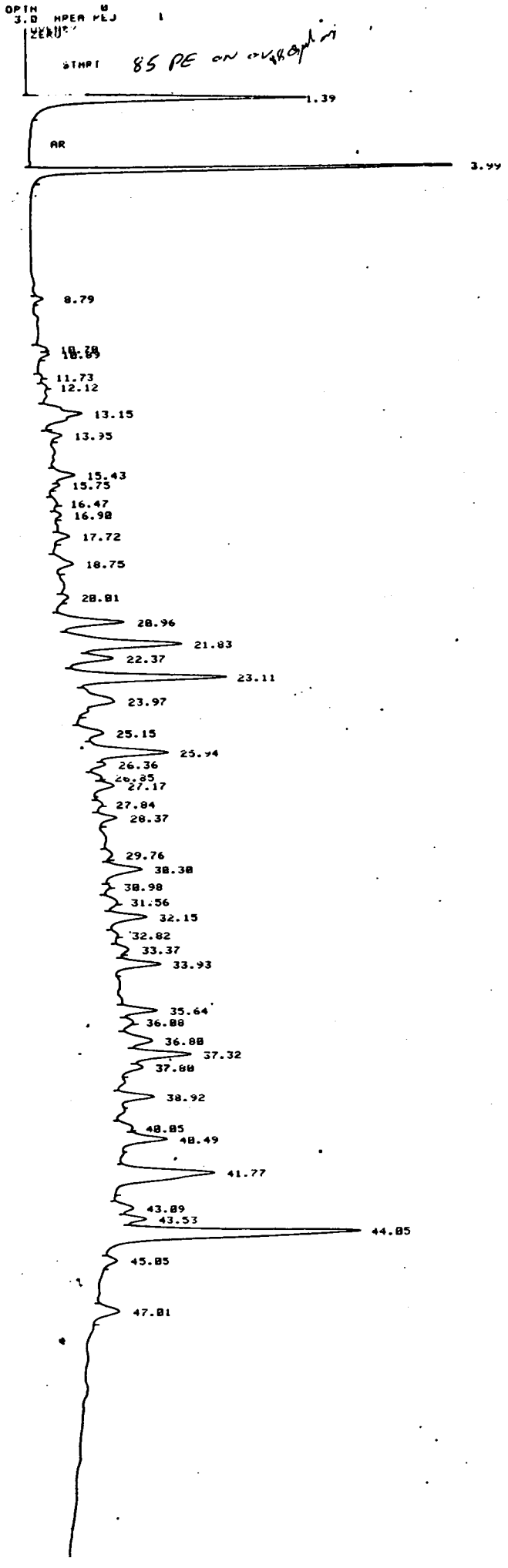
AR 5838A
AREA %

RT	AREA	AREA %
2.55	254	0.001
2.66	518	0.002
3.08	9202	0.029
3.15	7816	0.024
[illegible]	352400	1.125
3.84	51250	0.161
4.53	1944	0.006
[illegible]	1049	0.003
[illegible]	7858	0.025

186

187

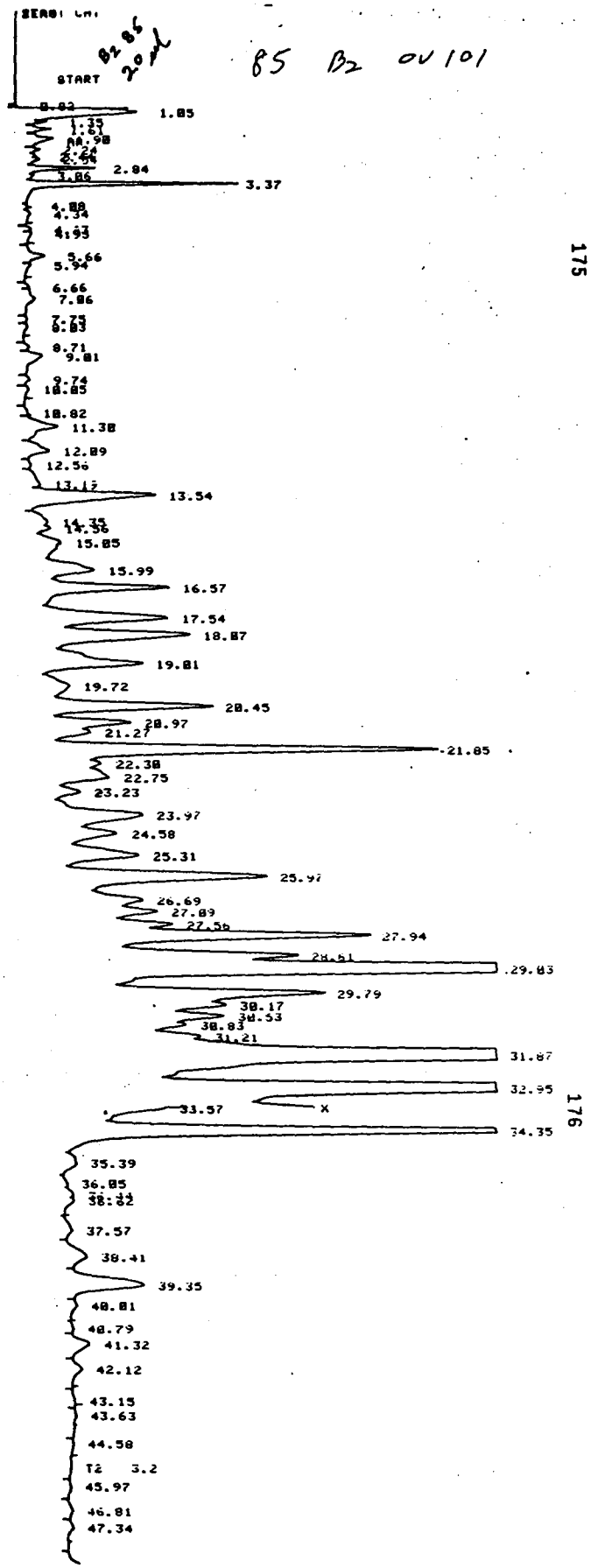



OPTN
3.0 HPER REJ 1
ZERO
START 85 PE on chromatogram
1.39
AR
3.99
8.79
10.28
10.89
11.73
12.12
13.15
13.95
15.43
15.75
16.47
16.98
17.72
18.75
20.81
20.96
21.83
22.37
23.11
23.97
25.15
25.94
26.36
26.85
27.17
27.84
28.37
29.76
30.30
30.98
31.56
32.15
32.82
33.37
33.93
35.64
36.00
36.80
37.32
37.80
38.92
40.05
40.49
41.77
43.09
43.53
44.85
45.85
47.81

038

039

65 µL (ml) 65 PE on FFAP
2.88
6.13
7.46
7.83
8.22
8.68
8.83
9.32
9.79
10.21
10.98
11.55
11.96
12.22
12.86
13.22
13.58
13.88
14.45
15.09
15.31
15.67
16.38
16.84
17.68
19.39
21.39
23.89

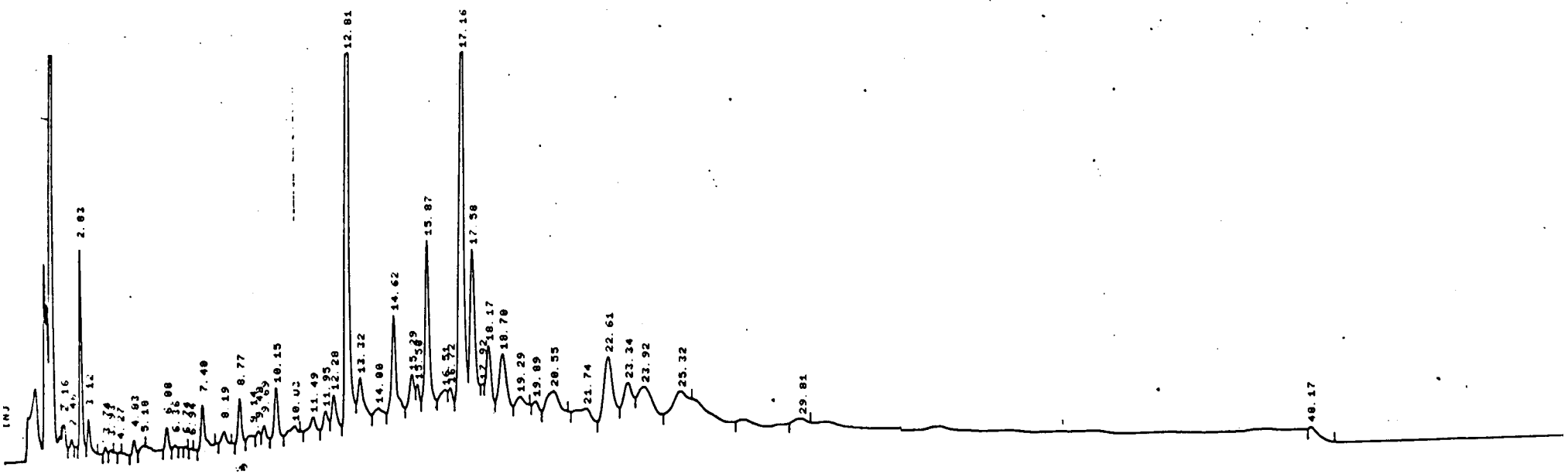


Hp 5830A
AREA %

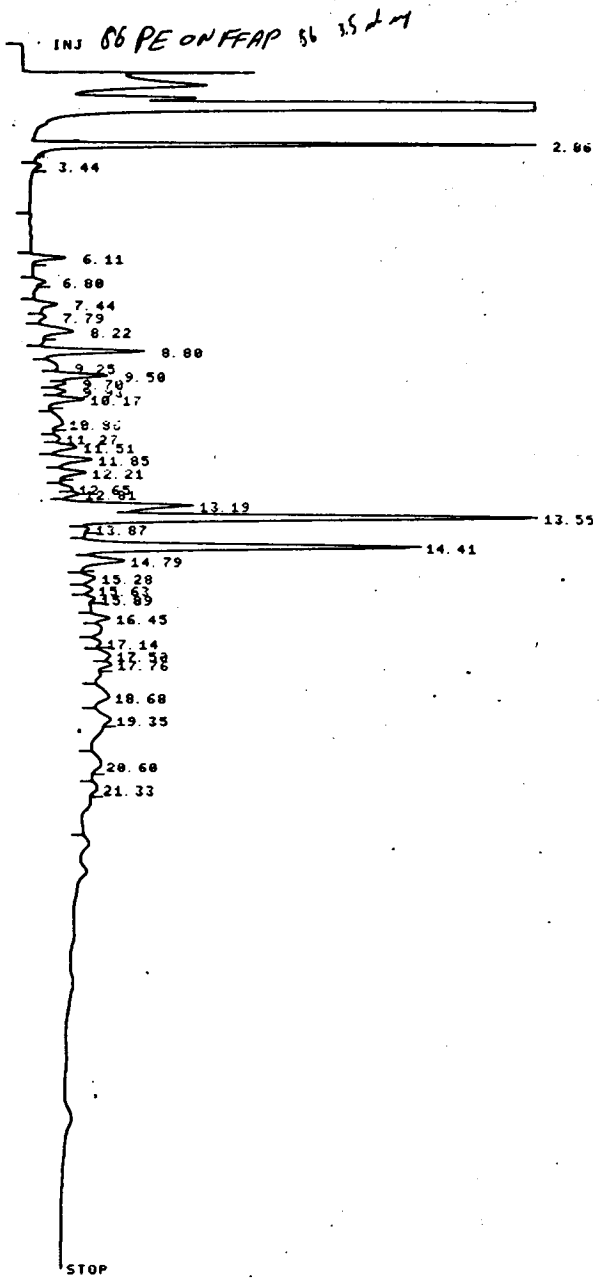
RT	AREA	AREA %
2.24	62630	0.085
2.44	36260	0.055
2.84	81620	0.124
3.64	1914400	2.890

181

182


2.03
12.81
17.16
17.58
15.87
14.62
13.32
10.15
8.77
7.40
40.17
29.81
25.32
23.92
23.34
22.61
21.74
20.55
19.89
19.29
18.70
18.17
15.52
14.00
12.28
11.49
5.10
4.03

2.24
MM
3.99
043
8.79
18.15
18.91
12.19
13.13
15.46
16.34
16.93
17.27
17.73
18.14
28.81
21.83
22.41
24.36
25.86
26.39
26.85
28.42
29.73
38.37
31.67
32.28
32.83
33.93
35.32
35.73
36.89
36.77
37.58
38.37
38.98
48.87
48.55
41.64
42.85
43.11
43.56
44.87
43.11
45.11
46.29
47.83
58.88
56.89
044

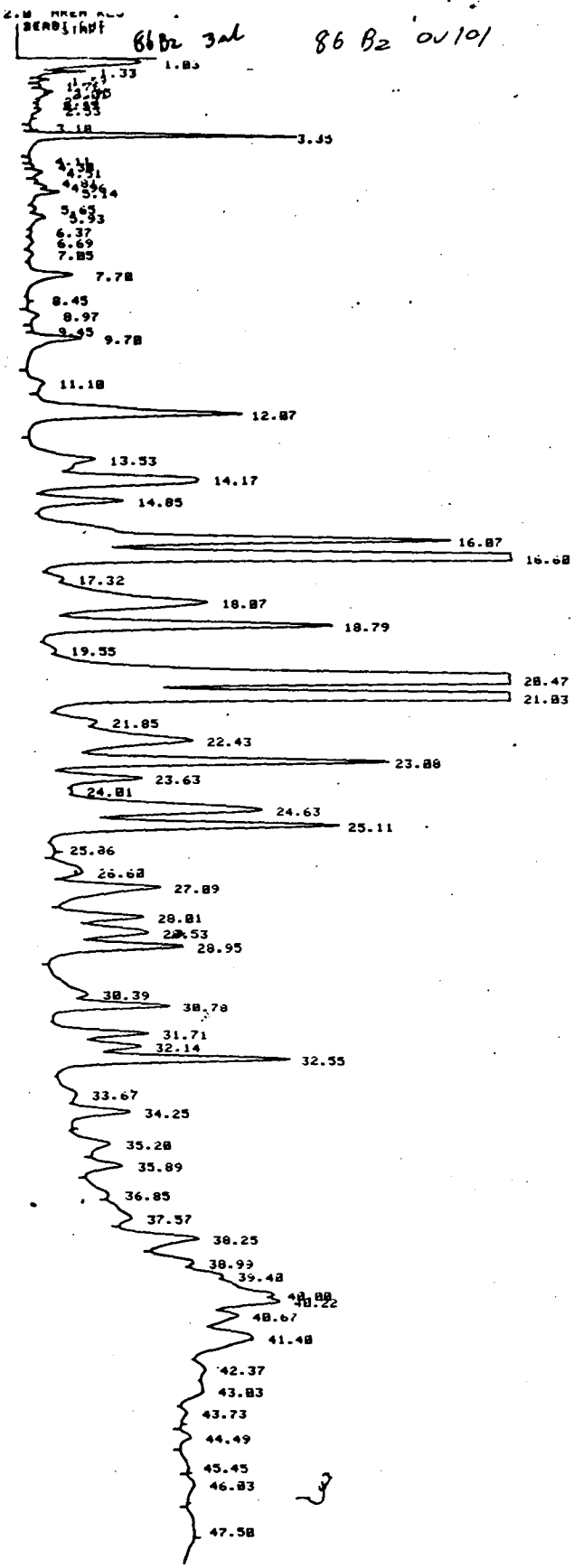


121

RT	TYPE	AREA	AREA %	
2.86	T	96412	16.25	
3.44	TM	2089	.352	
6.11		7524	1.268	
6.80		2310	.389	2
7.44		6437	1.085	
7.79	M	2322	.391	3
8.22	M	10776	1.816	
8.80		26115	4.4	
9.25	M	6491	1.094	
9.50	M	17751	2.991	
9.79	M	5042	.849	6
9.96	M	5257	.885	8
10.17	M	10192	1.717	
10.86		7020	1.183	
11.27		2062	.347	4
11.51	M	6660	1.122	
11.85	M	10709	1.804	
12.21	M	7396	1.246	
12.65		2748	.463	
12.81	M	4309	.726	1
13.19	M	45783	7.714	
13.55	M	146313	24.65	
13.87	M	1522	.256	1
14.41		98939	16.5	
14.79	M	13966	2.353	
15.28		4185	.705	2
15.63	M	2180	.367	3
15.89	M	1664	.280	4
16.45		44	.007	4

122

86 B2 3rd 86 B2 ov101

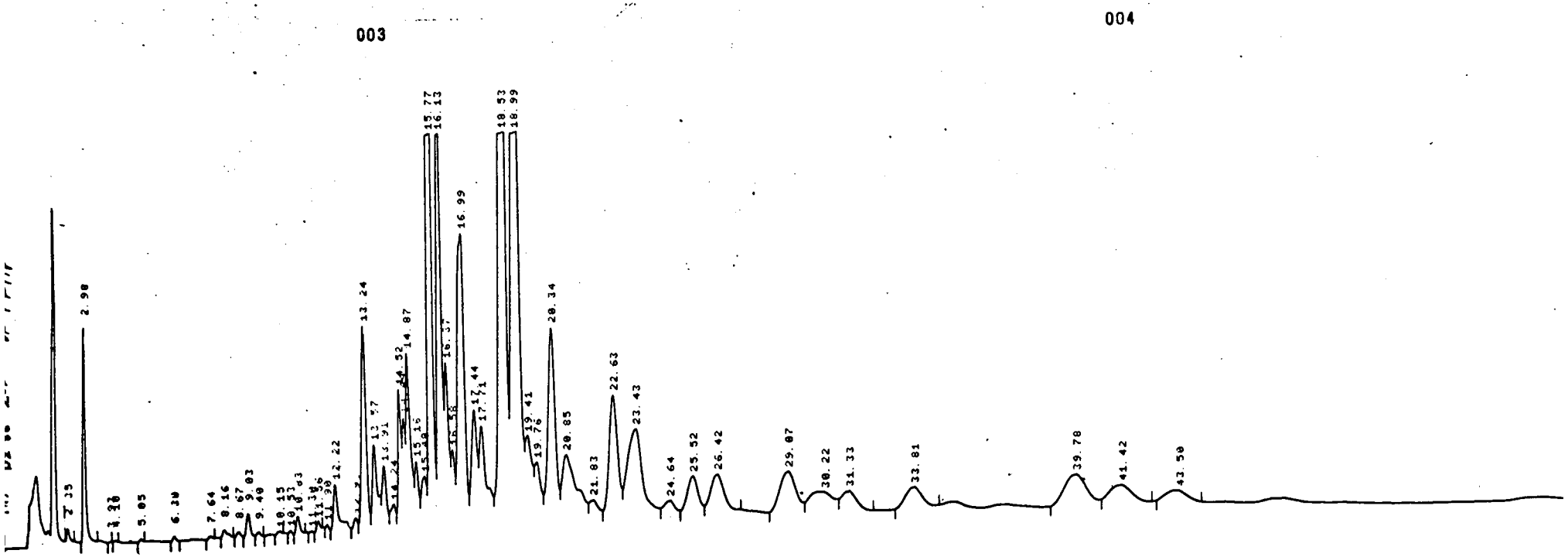


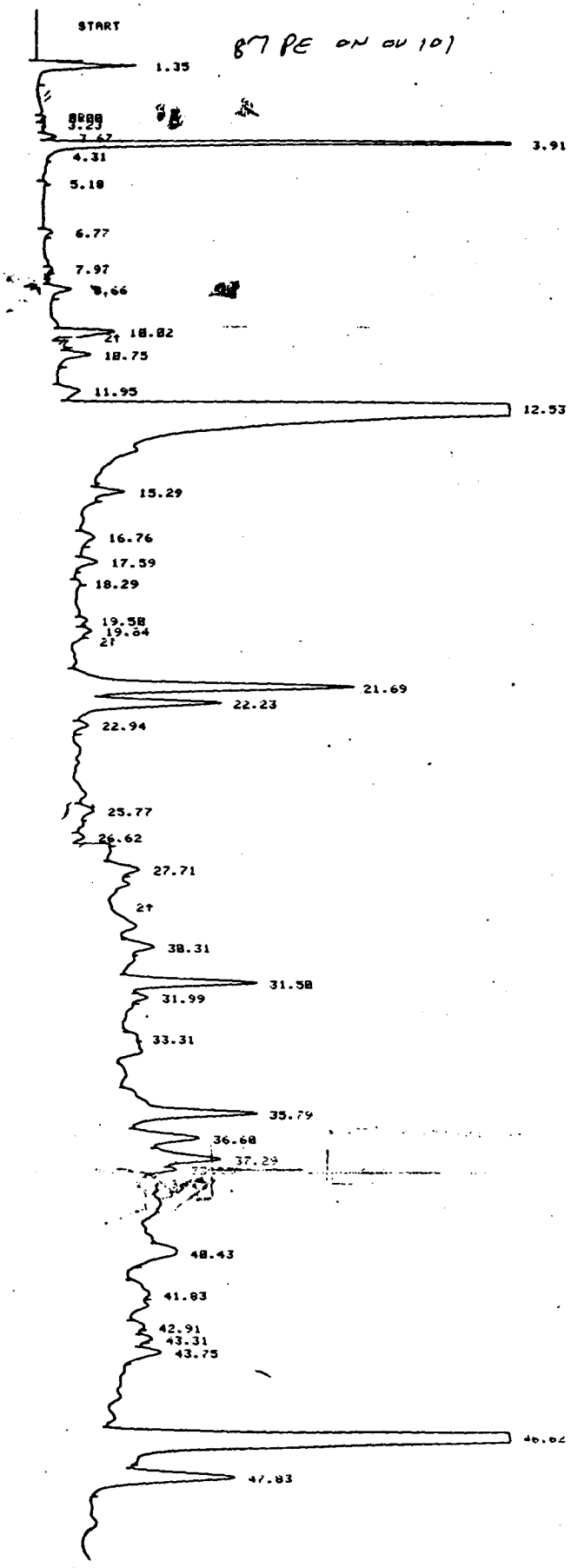
180

181

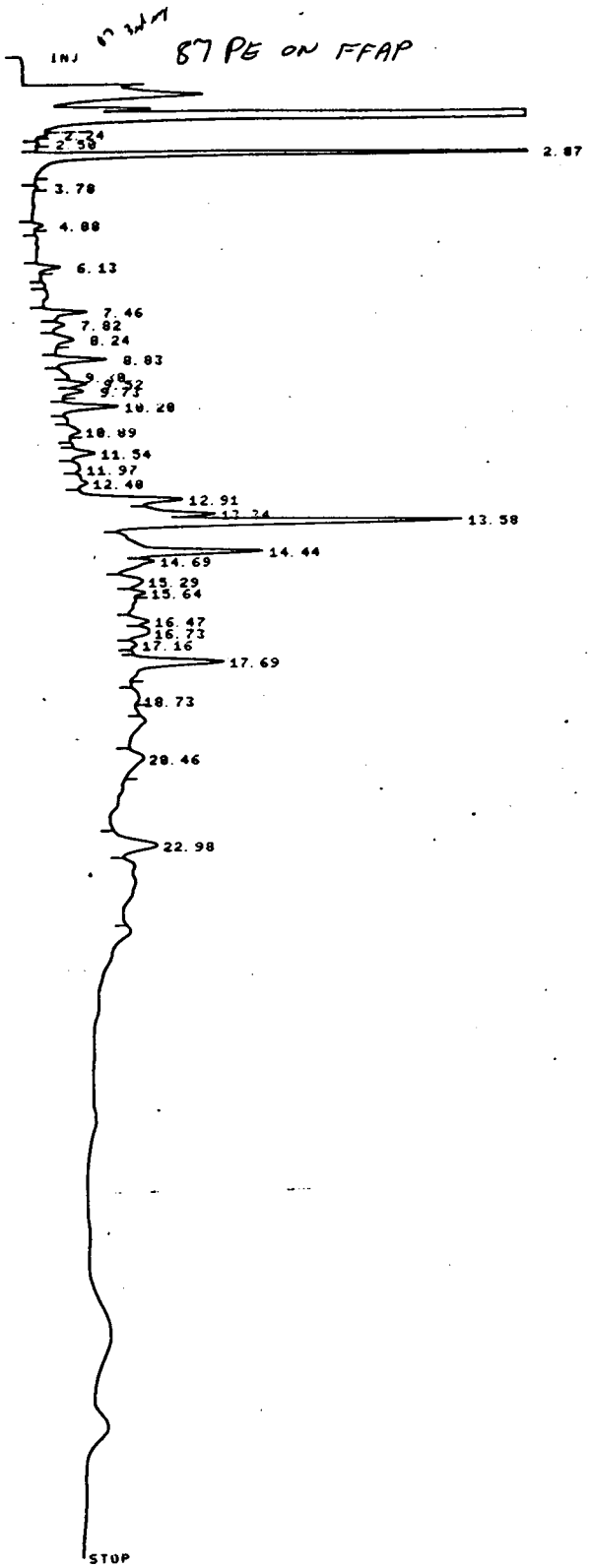
** 5830A
AREA %

RT	AREA	AREA %
2.01	76548	0.132
2.25	44288	0.076
2.35	35118	0.060
2.53	119408	0.206
3.18	1207	0.002
3.55	524108	0.903
4.11	4728	0.008
4.38	11548	0.020
4.51	41078	0.071
4.71	19078	0.034
4.95	45818	0.079
5.14	9174B	0.158
5.65	23118	0.040


003
004
2.98
5.85
6.39
7.64
8.16
8.67
9.03
9.40
12.22
13.24
14.87
15.77
16.13
16.99
18.53
18.99
19.41
20.34
20.85
21.83
22.63
23.43
24.64
25.52
26.42
29.07
30.22
31.33
33.81
39.78
41.42
43.50



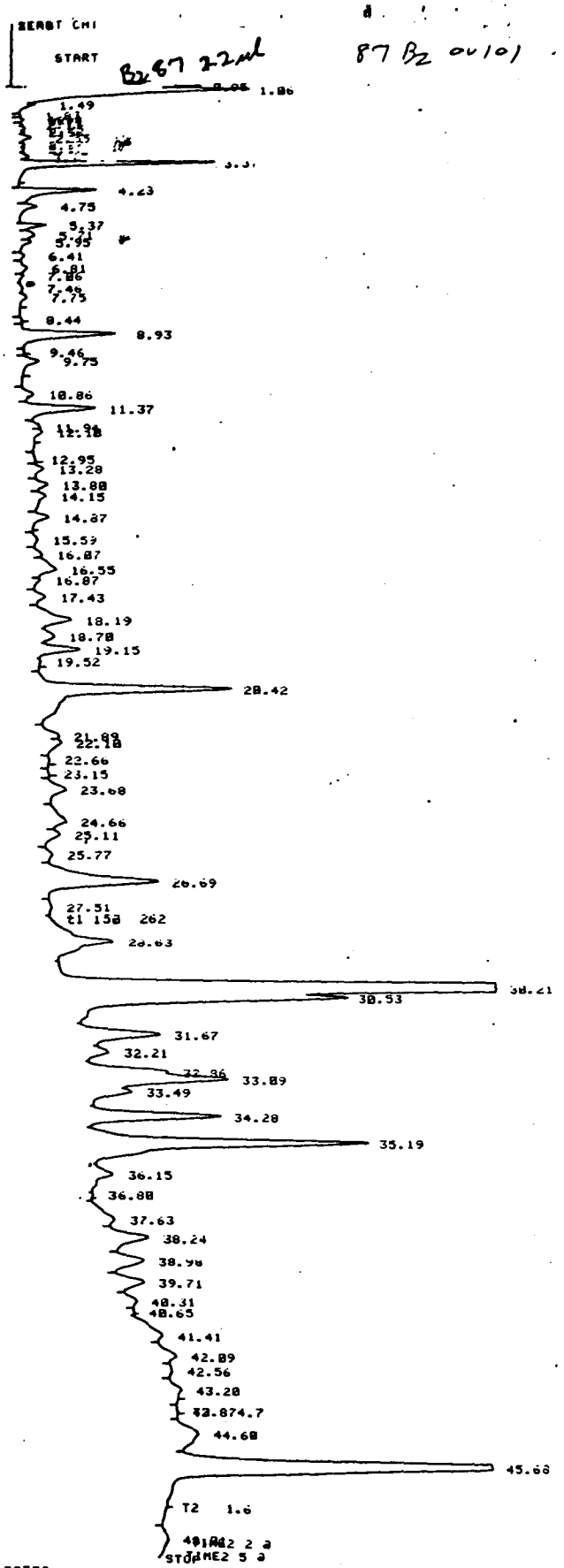
PT	AREA	AREA %
3.08	1568	0.029
3.23	861	0.016
	8004	0.140



RT	TYPE	AREA	AREA %
2.24	M	3136	.489 5
2.50		501	.078 2
2.87		124755	19.47
3.78		715	.111 6
4.88		2168	.338 4
6.13		5088	.794 2
7.46		12096	1.888
7.82	M	4824	.752 9
8.24	M	7020	1.096
8.83		12619	1.968
9.68	M	356	.56
9.72	M	1965	1.243
9.75	M	5851	.910 1
10.20		15158	2.372
10.89		3881	.605 8
11.54		6066	.946 3
11.97	M	2857	.441 3
12.48	M	4398	.6[illegible] 5
12.91	M	[illegible]	[illegible]

124

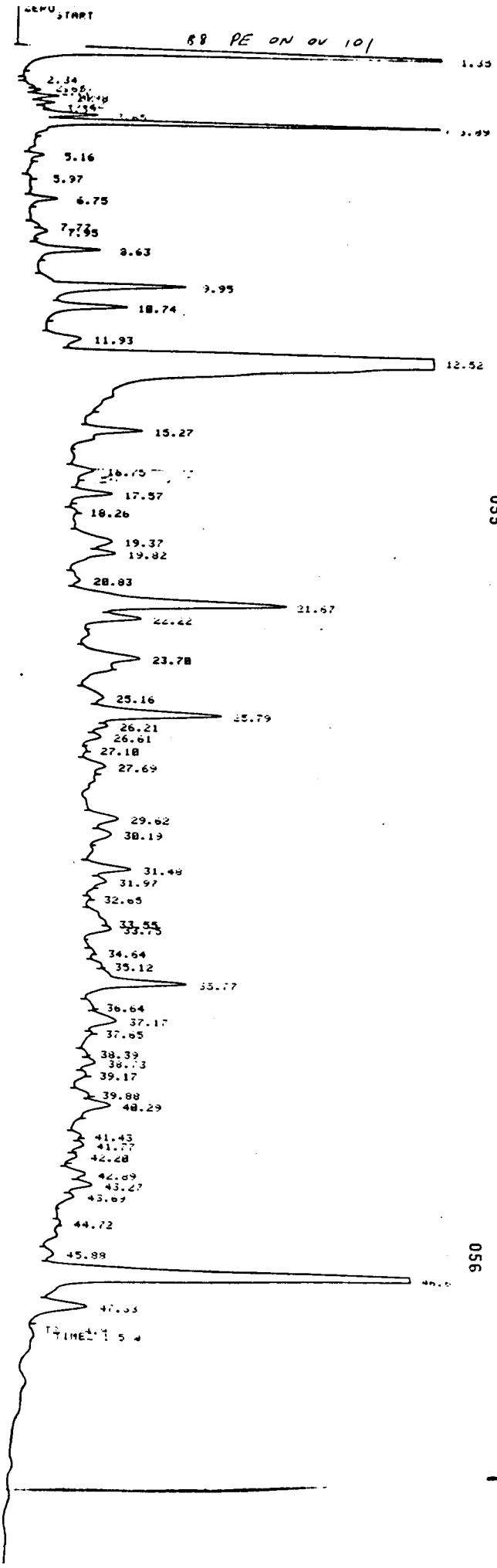
125

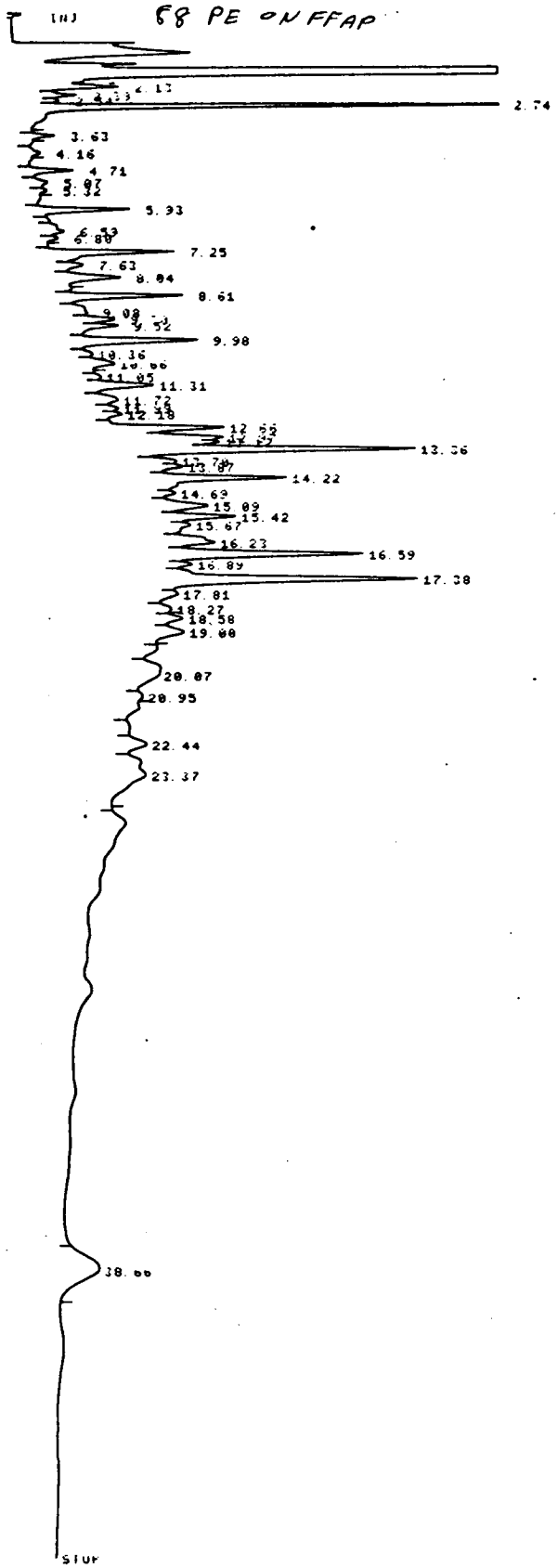


Hp 5830A
AREA %

RT	AREA	AREA %
1.98	26058	0.094
2.13	15300	0.055
2.25	30408	0.110
2.36	22148	0.080
2.55	57788	0.209
2.77	22924	0.083
2.87	27240	0.084
3.13	45260	0.164
[illegible]	[illegible]03	1.519

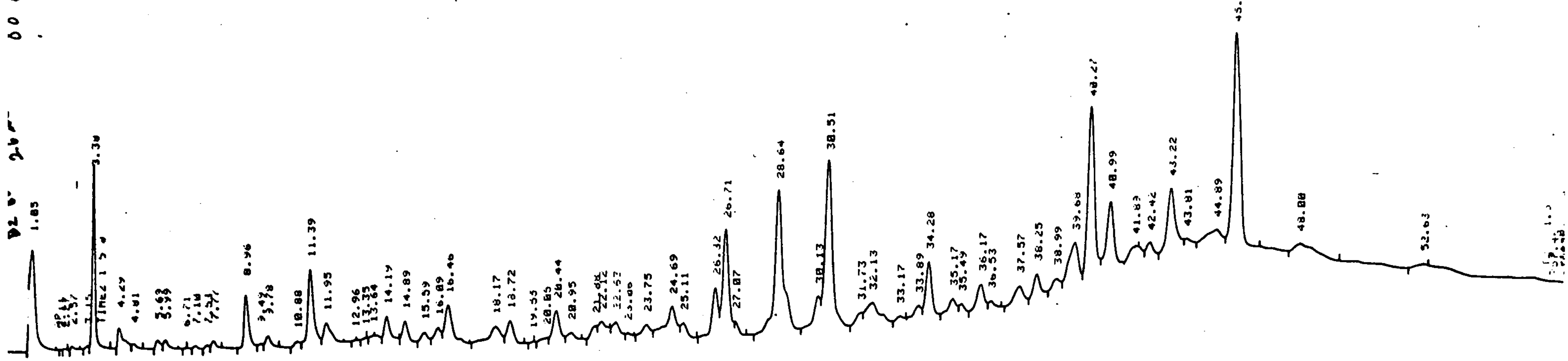
STOP
41.48
37.58
32.33
28.06
26.42
24.61
23.49
21.93
21.17
19.19
18.50
17.90
16.87
13.06
2.99
2.61
900
800

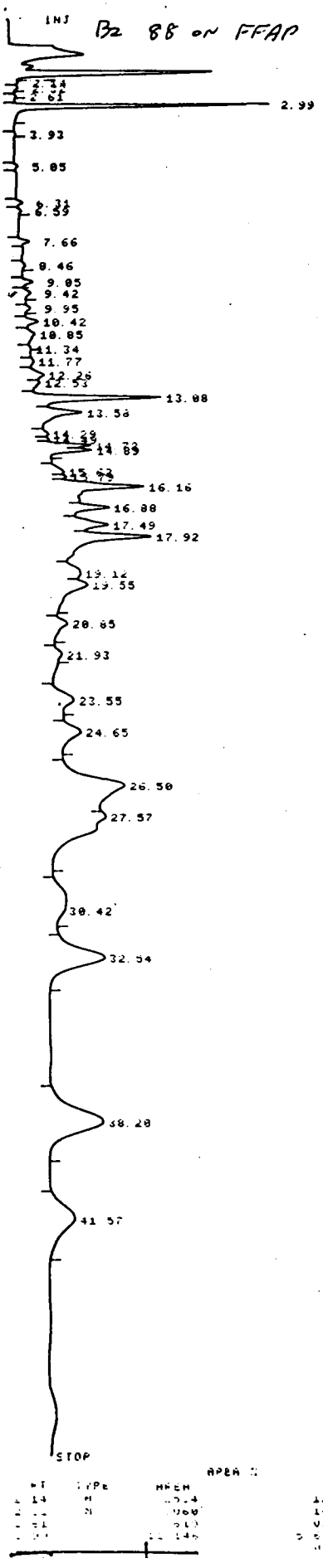

START
88 PE ON OV 101
1.55
2.34
3.49
5.16
5.97
6.75
7.77
7.95
8.63
9.95
10.74
11.93
12.52
15.27
17.57
18.26
19.37
19.82
20.83
21.67
23.78
25.16
25.79
26.21
26.61
27.10
27.69
29.62
30.19
31.48
31.97
32.65
34.64
35.12
35.77
36.64
37.17
37.65
38.39
39.17
39.88
40.29
41.43
41.77
42.28
43.27
44.72
45.88
055
056


68 PE ON FFAP
2.74
3.63
4.16
4.71
5.93
7.25
7.63
8.04
8.61
9.98
11.31
13.06
14.22
14.69
15.09
15.42
15.67
16.23
16.59
16.89
17.38
17.81
18.27
18.58
19.00
20.07
20.95
22.44
23.37
38.66
STOP

129

130


1.85
3.38
4.29
4.81
5.63
5.99
8.96
11.39
11.95
10.88
12.96
13.35
13.64
14.19
14.89
15.59
16.09
16.46
18.17
18.72
19.55
20.05
20.44
20.95
21.48
22.12
22.57
23.75
24.69
25.11
26.32
26.71
27.07
28.64
30.13
30.51
31.73
32.13
33.17
33.89
34.28
35.17
35.49
36.17
36.53
37.57
38.25
38.99
39.68
40.27
40.99
41.83
42.42
43.22
43.81
44.89
45.67
48.88
52.63


INJ
Bz 88 on FFAP
2.99
3.93
5.05
7.66
9.46
9.95
10.42
10.85
11.34
11.77
13.08
13.58
16.16
16.88
17.49
17.92
19.55
20.65
21.93
23.55
24.65
26.50
27.57
30.42
32.54
38.28
41.57
STOP

009

010

69 PE on OV101

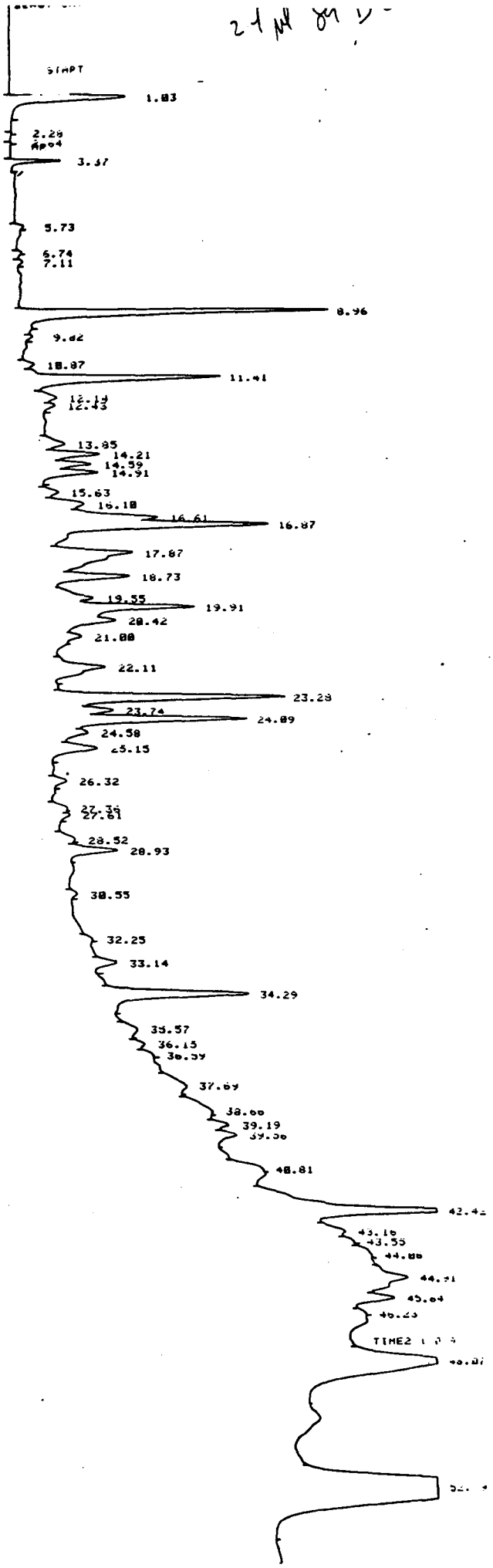
029

030

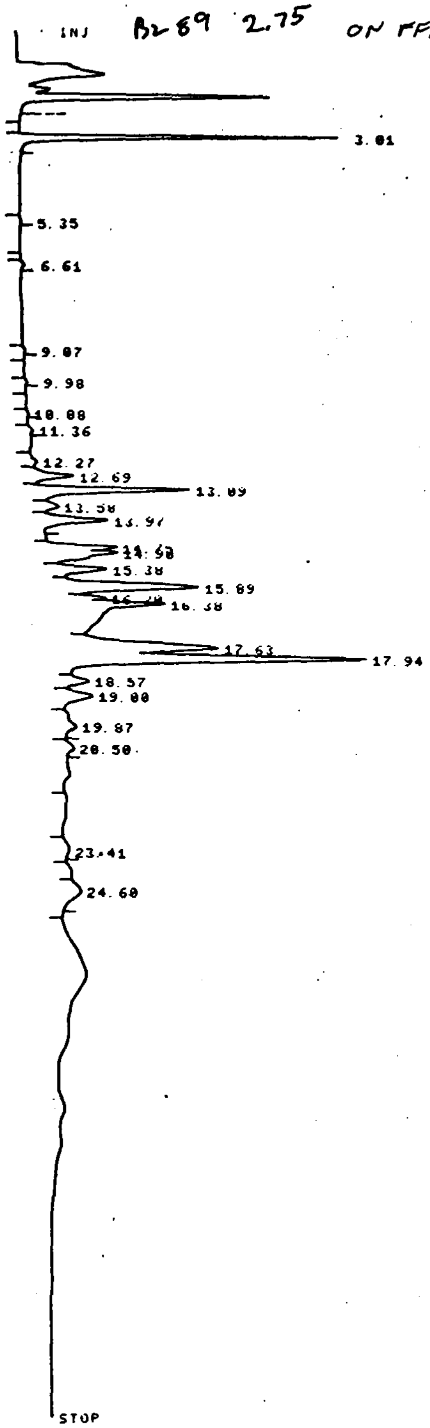
89 PE on FPAP
2.73
38.81
38.13
26.37
22.39
22.12
21.08
20.87
19.08
18.31
17.42
16.91
16.26
15.66
15.12
14.72
14.43
13.92
13.33
12.67
12.07
11.66
11.33
10.97
10.62
9.99
8.62
7.93
7.26
6.23
3.94
3.12
4.72
4.17
3.64

134

135


SIMPT
1.83
2.28
Apo4
3.37
5.73
6.74
7.11
8.96
9.82
10.87
11.41
12.13
12.43
13.85
14.21
14.59
14.91
15.63
16.10
16.61
16.87
17.87
18.73
19.55
19.91
20.42
21.00
22.11
23.28
23.74
24.09
24.58
25.15
26.32
27.39
27.61
28.52
28.93
30.55
32.25
33.14
34.29
35.57
36.15
36.39
37.69
38.66
39.19
40.81
42.4
43.16
43.55
44.00
44.91
45.64
46.23
TIME2
198
199

Bz89 2.75 ON FFAP

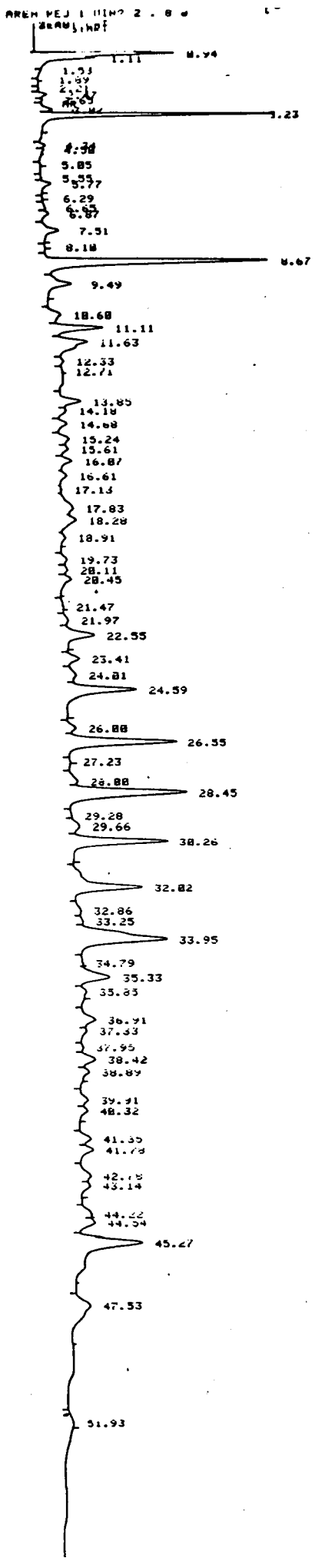


014

015

AREA %

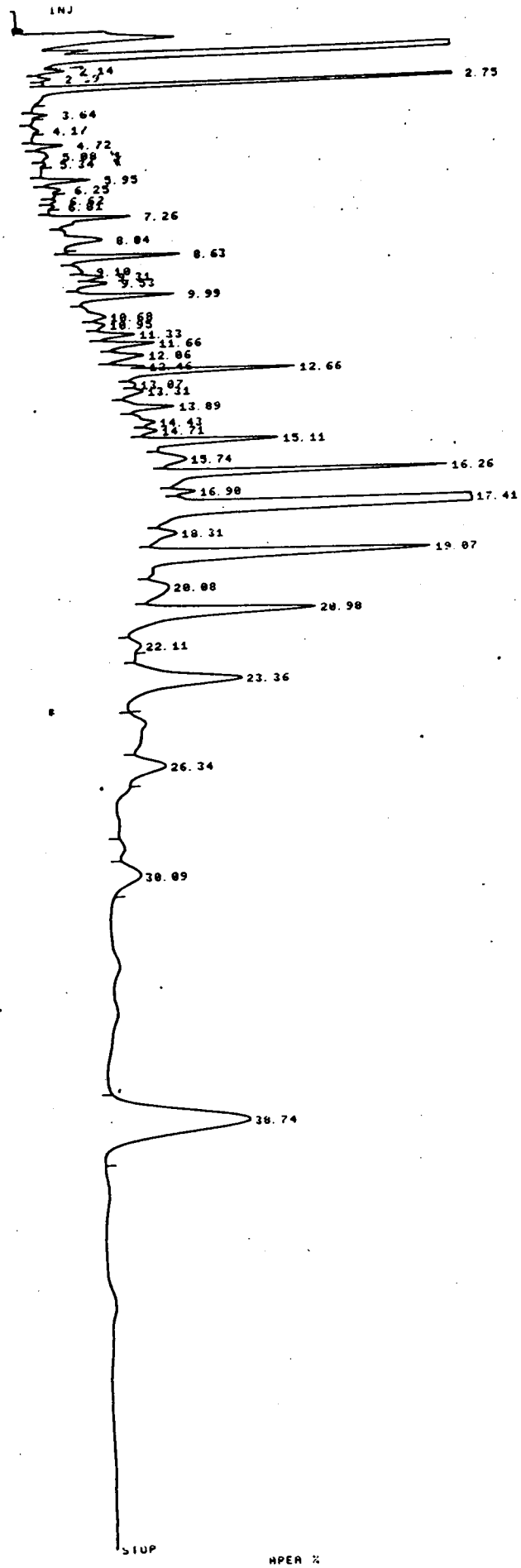
RT	TYPE	AREA	
3.01		117296	9.013
5.35		1450	.111 4
6.61		2344	.180 1
9.07		1356	.104 2
9.98		1058	.081 3
10.88		1297	.099 36
11.36		1806	.138 8
12.27		4315	.331 6
12.69	M	25489	1.959
13.09	M	88618	6.81
13.58	M	16201	1.245
13.97	M	44455	3.419
14.75		36017	2.768
14.90	M	56595	4.349
15.38	M	41004	3.151
15.89	M	[illegible]	9.839
16.20	M	[illegible]	1.907
16.38	M	181317	13.93
17.63	M	180347	13.86
17.94	M	[illegible]	18.62
18.57	M	[illegible]	[illegible]
19.00	M	[illegible]	[illegible]
19.87	M	[illegible]	1.263
20.50		[illegible]	.472 1
23.41		[illegible]	.466 4
24.60		[illegible]	1.234


1.11
8.94
1.53
1.89
3.23
5.85
5.77
6.29
8.67
7.51
8.18
9.49
10.68
11.11
11.63
12.33
12.71
13.85
14.18
14.68
15.24
15.61
16.87
16.61
17.13
17.83
18.28
18.91
19.73
20.11
20.45
21.47
21.97
22.55
23.41
24.81
24.59
26.88
26.55
27.23
28.88
28.45
29.28
29.66
30.26
32.82
32.86
33.25
33.95
34.79
35.33
35.83
36.91
37.33
37.95
38.42
38.89
39.91
40.32
41.35
42.18
43.14
44.22
44.54
45.27
47.53
51.93

036

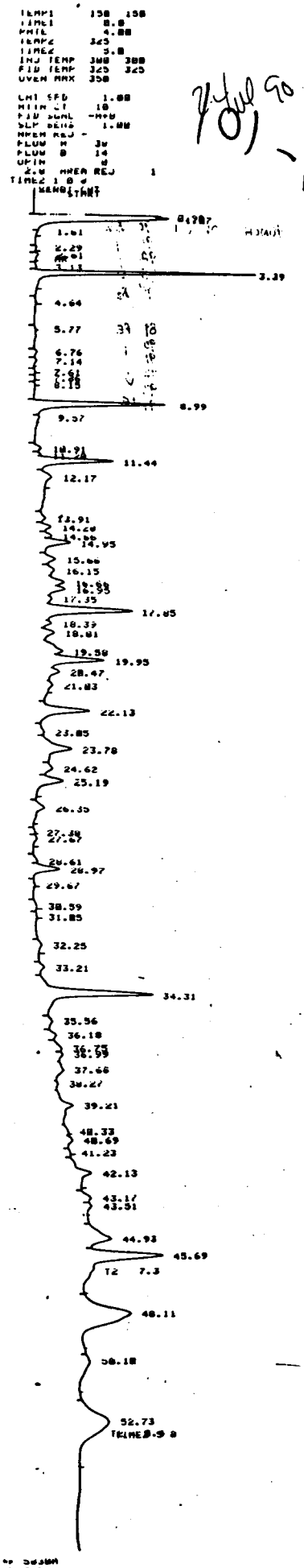
037

2.4 M 40- 12 [illegible]



137

138



Poly 90 Bz OV-101

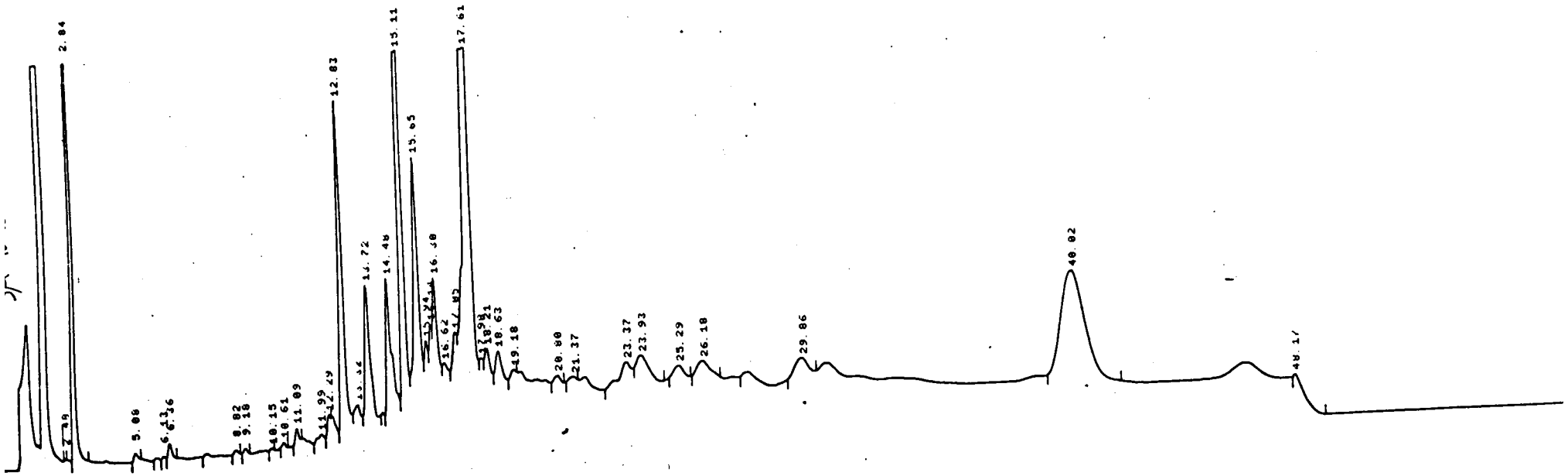
-V0

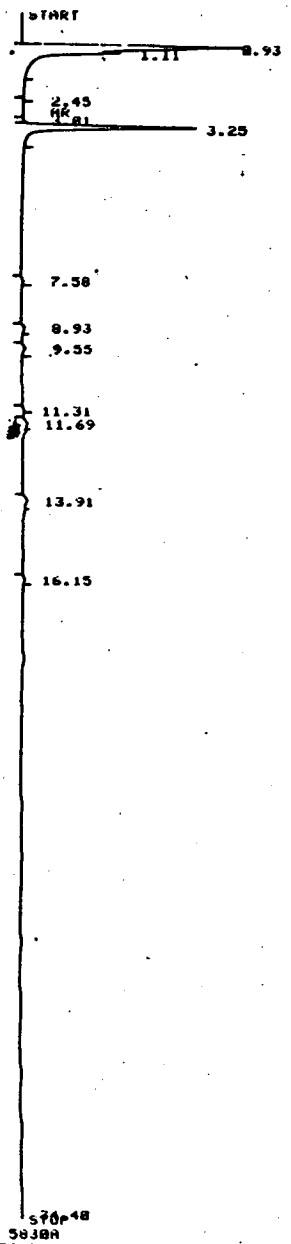
002

003

021

022


2.84
5.06
6.43
6.76
8.82
9.18
10.15
10.61
11.09
11.99
12.83
14.72
14.48
15.11
15.65
16.62
17.61
18.21
18.63
19.18
20.80
21.37
23.37
23.93
25.29
26.18
29.86
40.02



91-PE.

91-PE

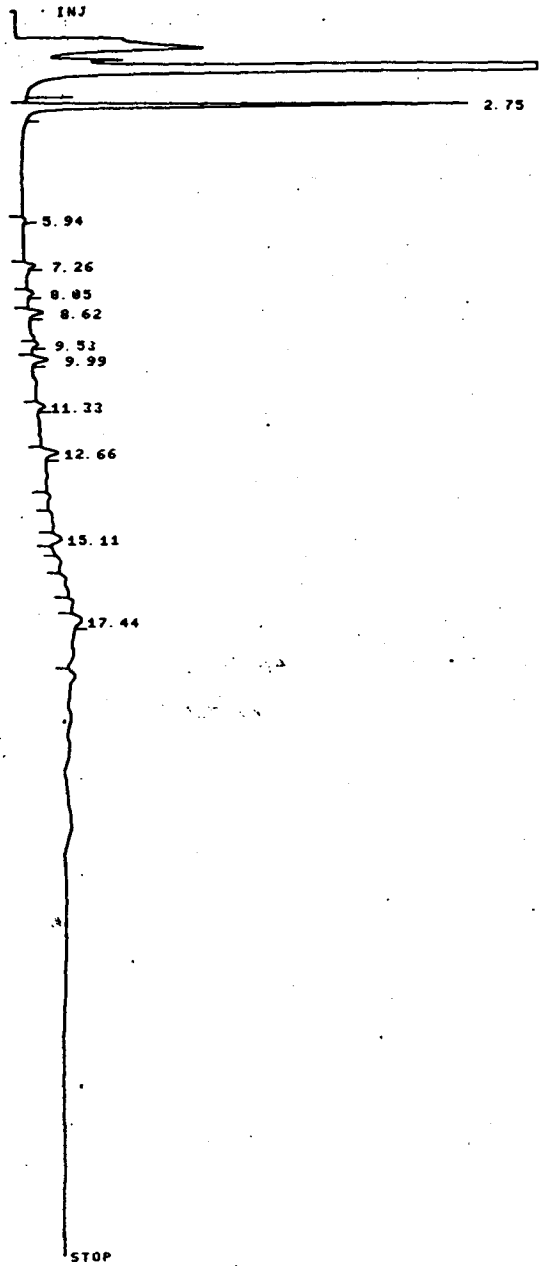
** 5838A
AREA %

RT	AREA	AREA %
3.01	777	0.421
3.25	311288	88.459
7.58	3663	1.041
8.93	6283	1.786
9.55	8358	2.374
11.31	2378	0.676
11.69	6156	1.750
13.91	8848	2.513
16.15	4154	1.181

XF: 1.0000 E+ 0

040

2 1μl 9|-PE or FFAP

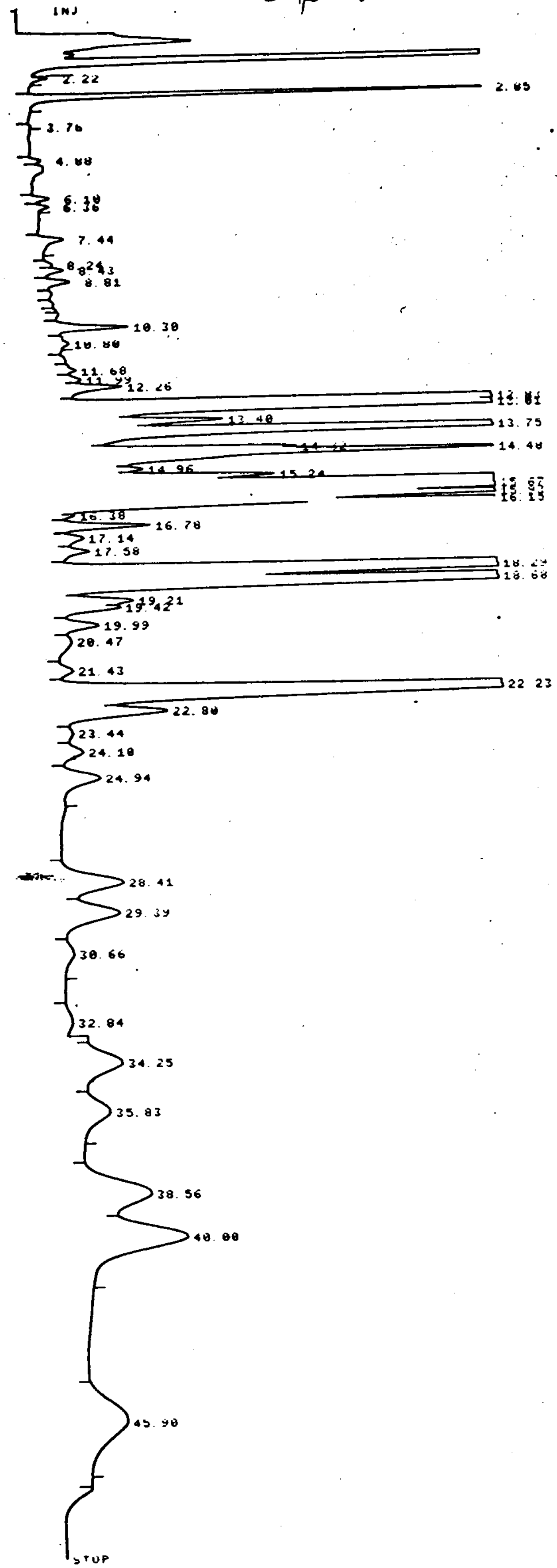


RT	TYPE	AREA	AREA %
2.75		79184	73.44
5.94		923	.856
7.26		1634	1.515
8.05		1877	1.741
8.62		3663	3.397
9.53		1241	1.151
9.99		4402	4.083
11.33		2211	2.051
12.66		4507	4.18
15.11		3982	3.693
17.44		4200	3.895

HP 3380A
DLY 2.
MV/M 1.00
STOP 60
ATTN 16
REJECT OFF

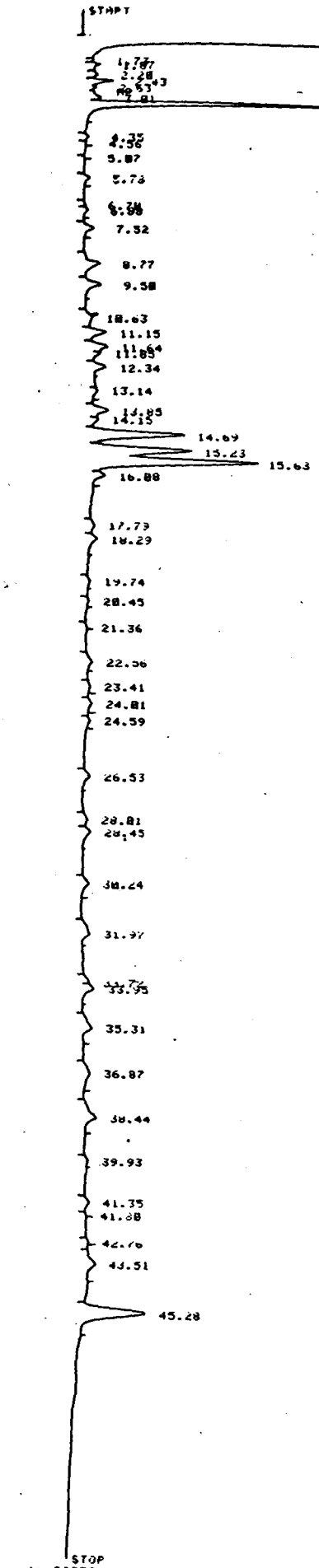
STOP
68.37
59.41
T2 18.2
53.29
58.17
48.93
46.74
43.89
43.29
41.97
41.86
39.68
34.31
33.33
32.17
30.83
29.76
28.11
26.49
24.64
23.77
23.16
22.31
21.73
17.41
16.31
16.17
14.92
13.87
13.49
12.17
11.45
9.82
9.69
7.97
7.13
6.42
5.89
5.38
4.67
3.39
1.85
600
800

27μl 91-B2 on FFAP



024

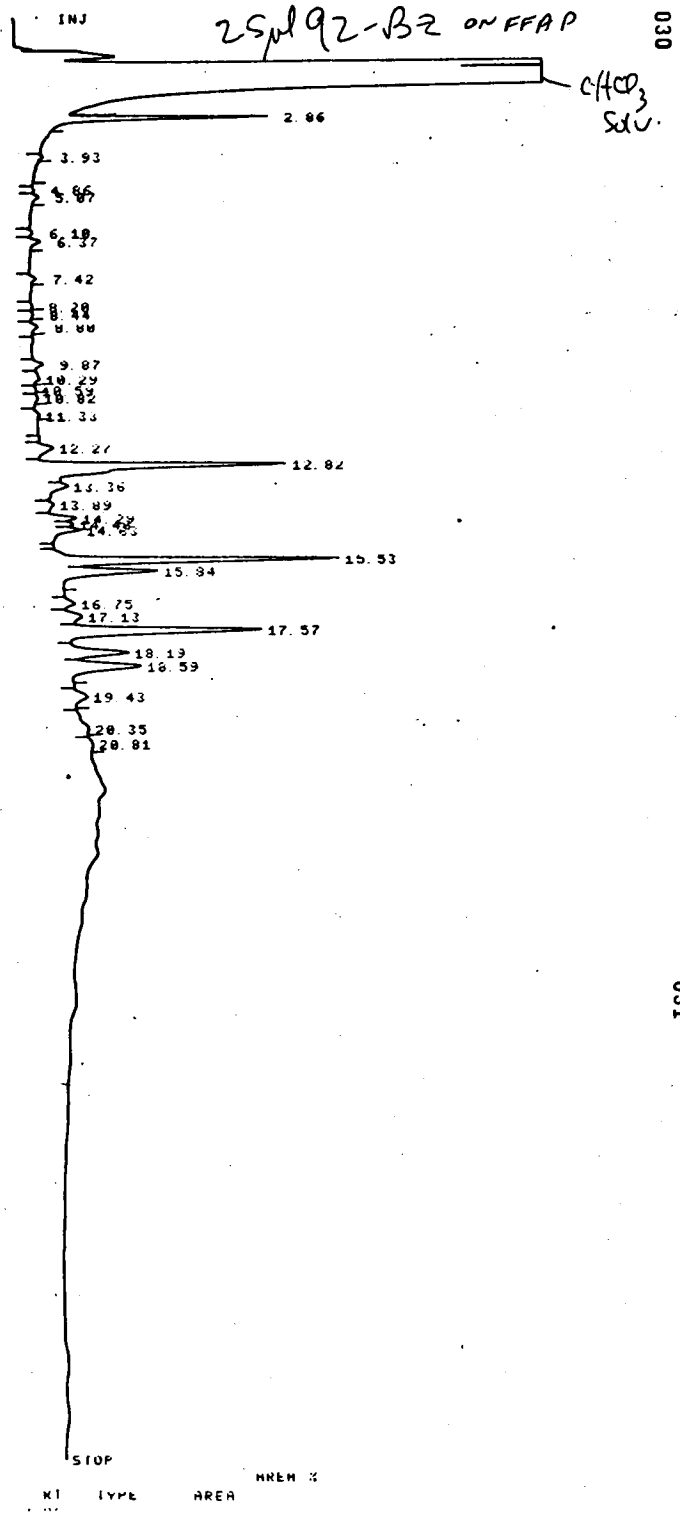
025



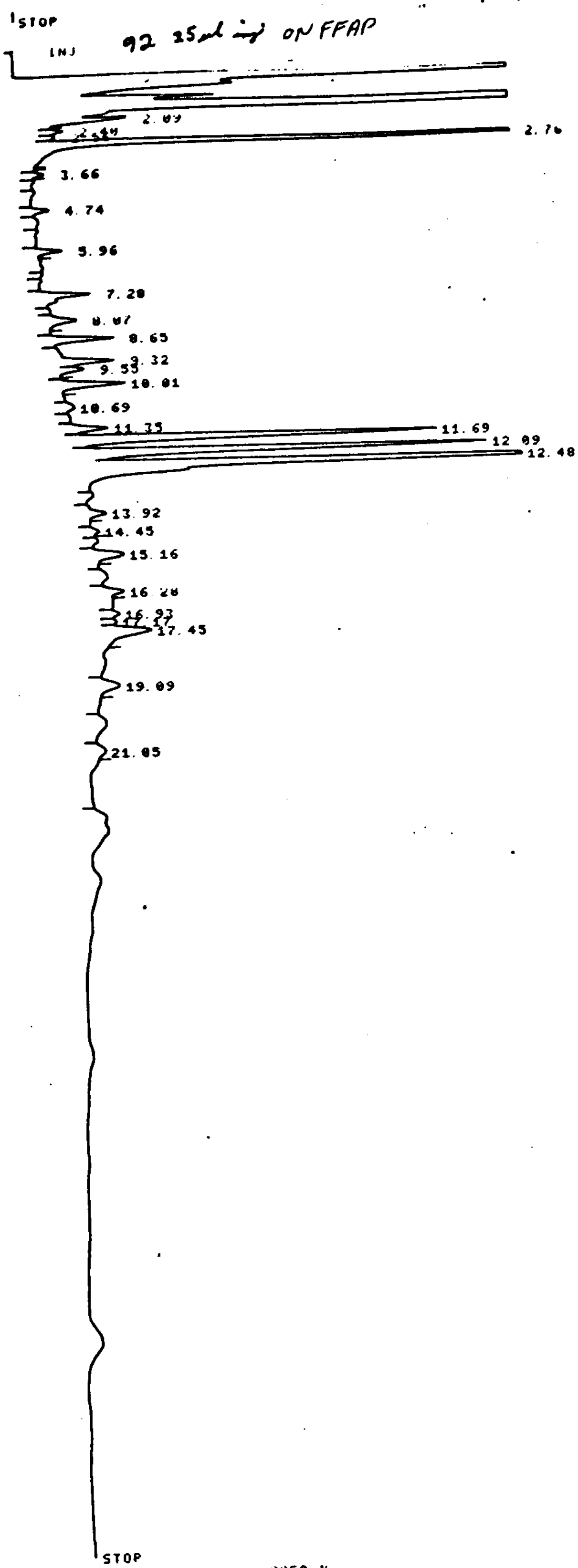
041

042

RT	HREA	AREA %
3.31	74168	1.628
3.23	630388	15.614
[illegible]	[illegible]	3.183
4.56	[illegible]	0.845


INJ
25M92-B2 ON FFAP
030
CHCl3
Solv.
2.86
3.93
5.87
6.37
7.42
9.87
12.82
15.36
15.53
15.84
16.75
17.13
17.57
18.19
18.59
19.43
20.35
20.81
031
STOP
AREA %
RT TYPE AREA

2,4 9285
012
011
START
AM1 1.0000 E+ 0
1.13
0.96
2.37
3.44
4.21
4.56
5.47
6.84
7.13
7.61
8.81
9.00
9.33
9.82
10.94
11.45
12.19
13.27
13.83
14.48
14.93
16.11
16.63
17.77
18.26
19.21
20.44
21.03
21.64
22.13
22.81
23.81
24.12
24.64
25.41
26.35
26.81
27.77
28.97
29.71
30.58
32.46
32.61
34.81
34.58
35.58
36.21
36.53
37.25
37.73
38.79
39.23
39.78
40.31
40.74
41.84
41.37
42.59
43.21
43.51
44.58
44.96
45.44
46.13
46.13
52.79



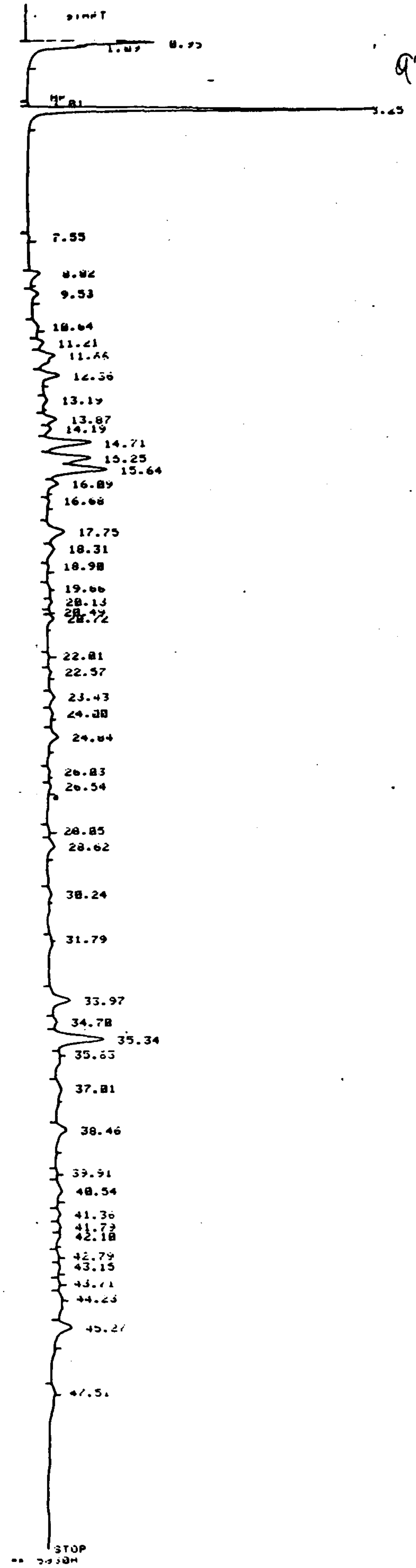
142

143

AREA %

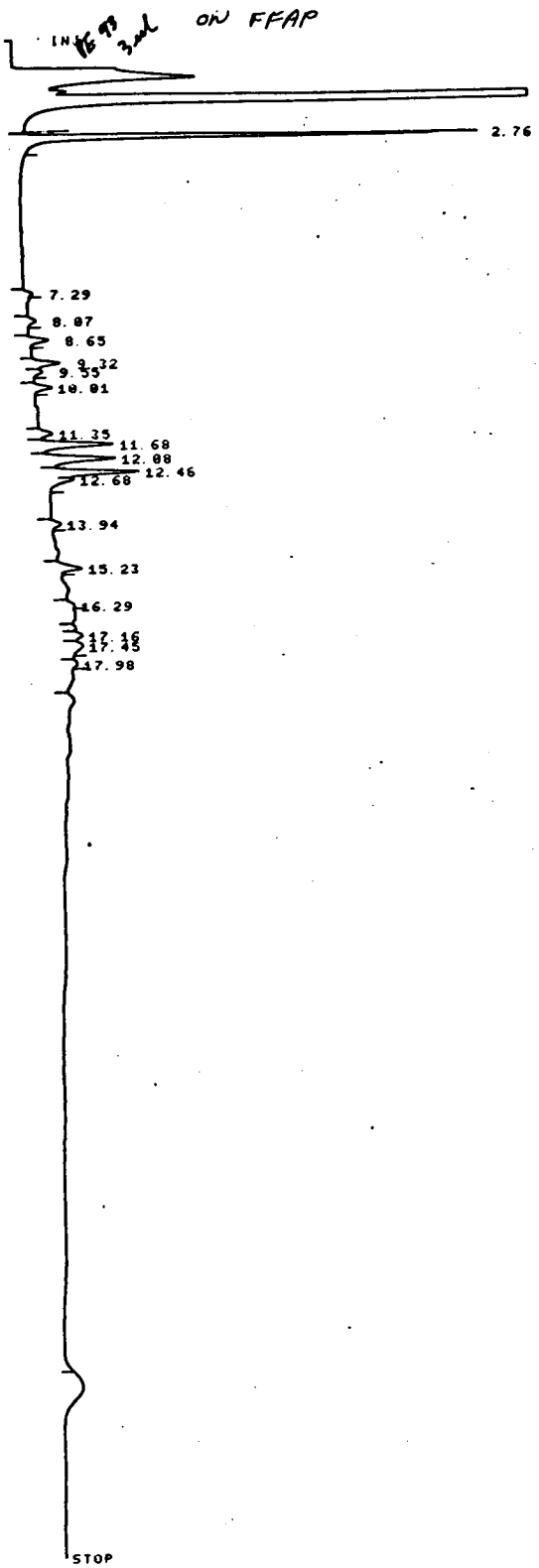
RT	TYPE	AREA	AREA %
2.09	TM	10508	1.37
2.40	T	2146	.279 9
2.56	TM	1572	.295
2.76	TM	144644	18.06
3.66		2063	.269
4.74		3616	.471 6
5.96		5849	.762 6
7.28		14612	1.906
8.07		8750	1.141
8.65		16303	2.126
9.32	M	19822	2.585
9.55	M	7291	.950 8
10.01		18244	2.379
10.69		2875	.374 7
[illegible]		9634	1.256
11.69	M	101235	13.21
12.09	M	121627	15.96
12.48	M	[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]
[illegible]		[illegible]	[illegible]

93-PE


START
7.55
8.82
9.53
10.64
11.21
11.66
12.36
13.19
13.87
14.19
14.71
15.25
15.64
16.09
16.68
17.75
18.31
18.98
19.66
20.13
20.72
22.01
22.57
23.43
24.00
24.84
26.03
26.54
28.05
28.62
30.24
31.79
33.97
34.78
35.34
35.63
37.01
38.46
39.91
40.54
41.36
41.79
42.10
42.79
43.15
43.71
44.23
45.27
STOP

044

045



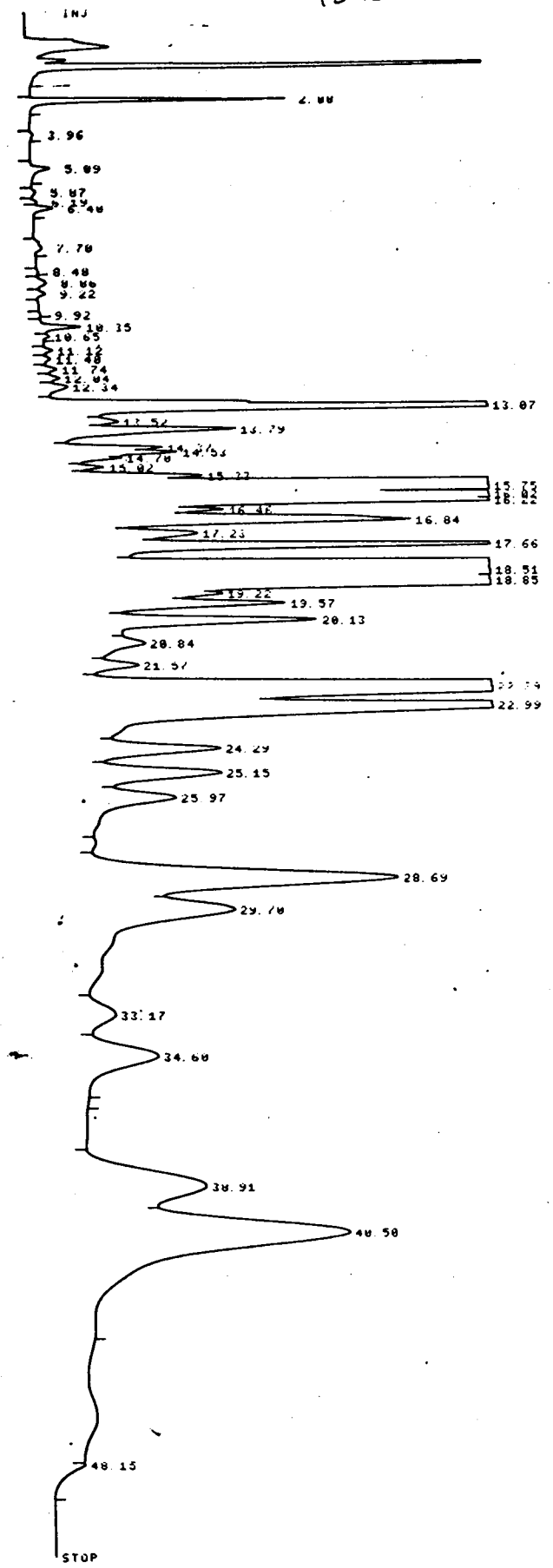
AREA %

RT	TYPE	AREA	AREA %
4.76		83258	41.15
7.29		1025	.506
8.07		2643	1.306
8.65		5001	2.472
9.32		7056	3.487
9.55	M	2607	1.289
10.01		4847	2.396
11.35		1295	.640
11.68	M	19265	9.492
12.08	M	21868	10.81
12.48	M	25789	12.71
12.68	M	7189	3.65
13.94		2192	1.115
15.23		677.8	.349
16.29		995	.491
17.16		2055	1.018

144

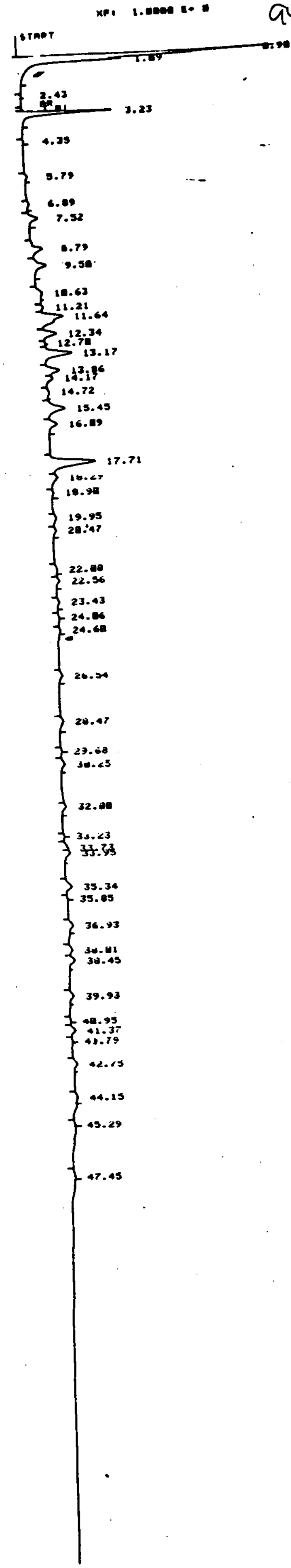
145

93-B2 OMFFAP



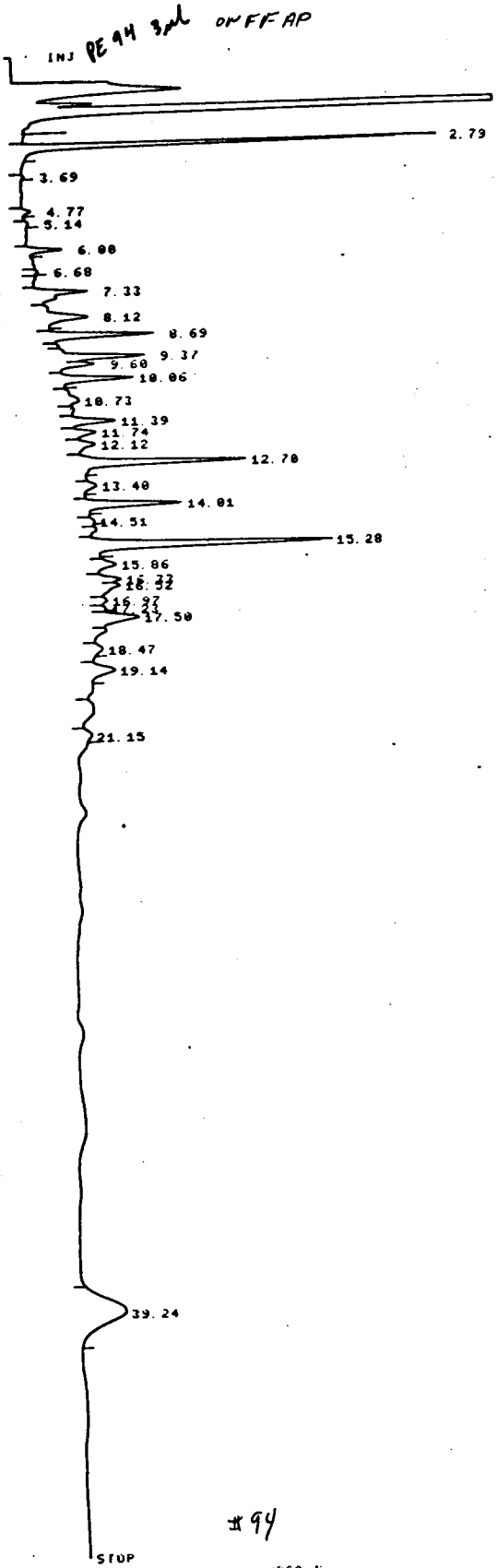
033

94-PE


START
3.23
4.35
5.79
6.89
7.52
9.58
11.64
12.34
13.17
14.72
15.45
16.89
17.71
18.98
19.95
22.56
23.43
24.68
28.47
32.88
35.34
35.85
36.93
38.45
39.93
41.37
44.15
45.29
47.45
HP 5838A
AREA %

047

048

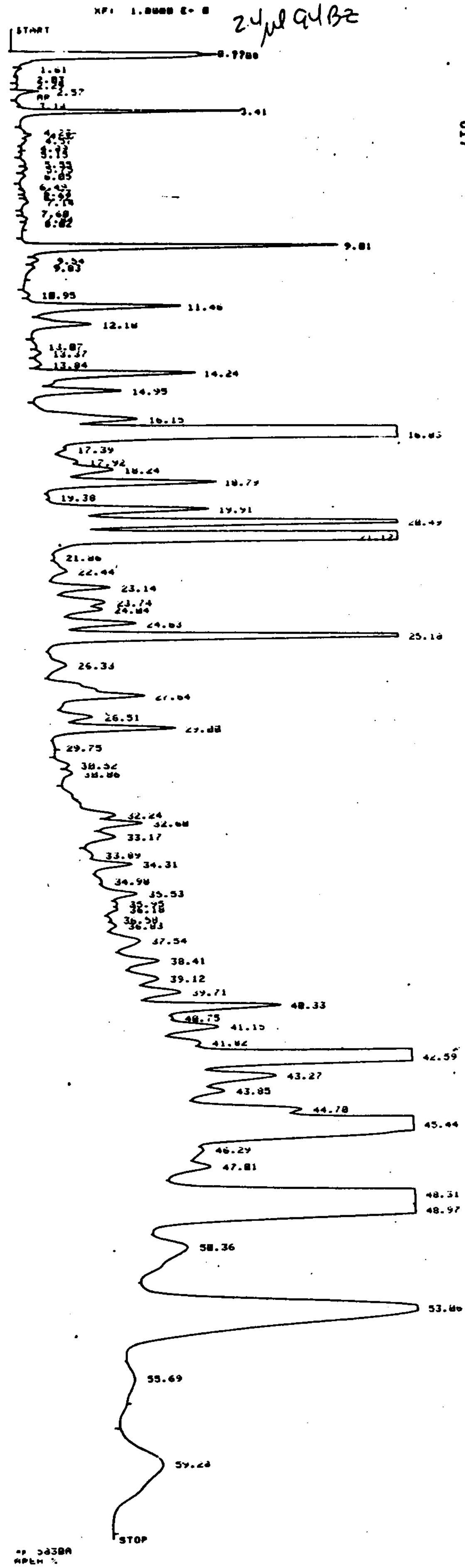


#94

		AREA	AREA %
2.79		78746	14.52
3.69		614	.113
4.77		2013	.372
5.14		1255	.231
6.00		8057	1.486
6.68		643	.118
7.33		10738	1.98
8.12	M	19112	3.524
8.69		29414	5.055
9.37		24750	4.523
9.60	M	5452	1.[illegible]

146

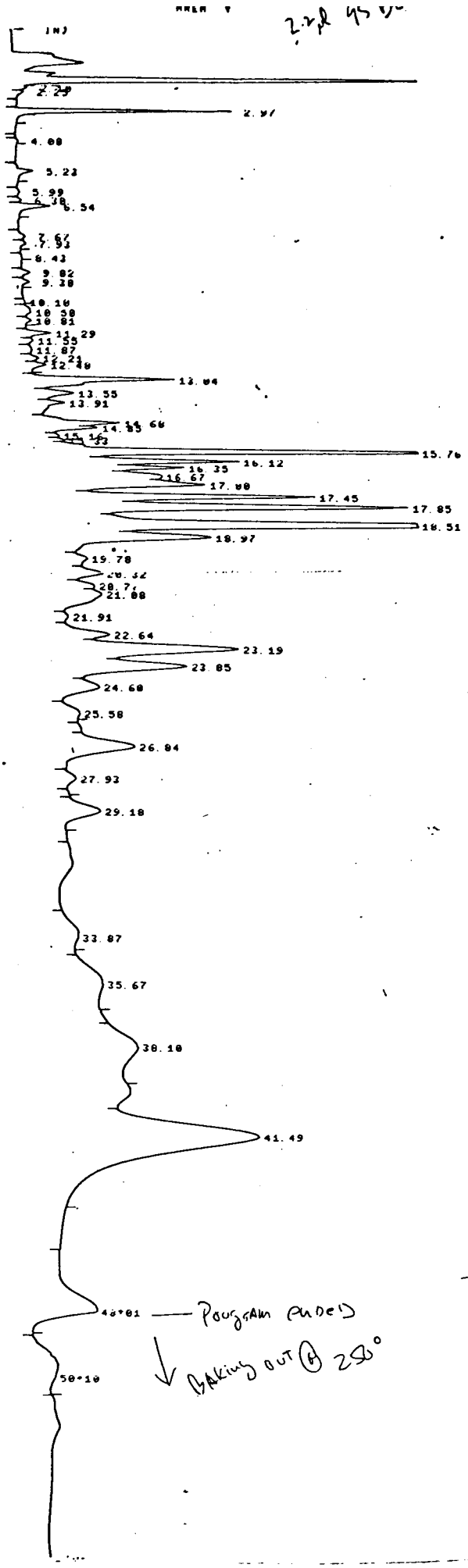
147


2.4 µl 94 Bz
START
STOP
017
018
019

072
073
fig-RE.

124
125
1.18
1.39
1.41
2.29
2.54
3.27
4.04
4.86
5.04
5.89
6.37
6.91
7.09
8.74
9.62
10.63
11.17
11.89
12.54
13.35
13.63
14.92
14.33
14.63
15.47
15.82
16.44
17.84
17.34
18.47
18.93
19.85
20.17
20.73
21.41
21.81
22.29
22.89
22.83
23.08
24.27
24.83
25.72
26.87
26.83
27.24
27.71
28.67
29.45
29.83
30.49
31.44
31.93
32.27
32.88
33.22
34.81
34.33
35.93
36.65
37.37
37.82
38.41
38.88
39.46
40.11
41.87
41.83
42.36
42.86
44.59
45.33
47.66
49.64
50.99
52.13
53.41

95 82

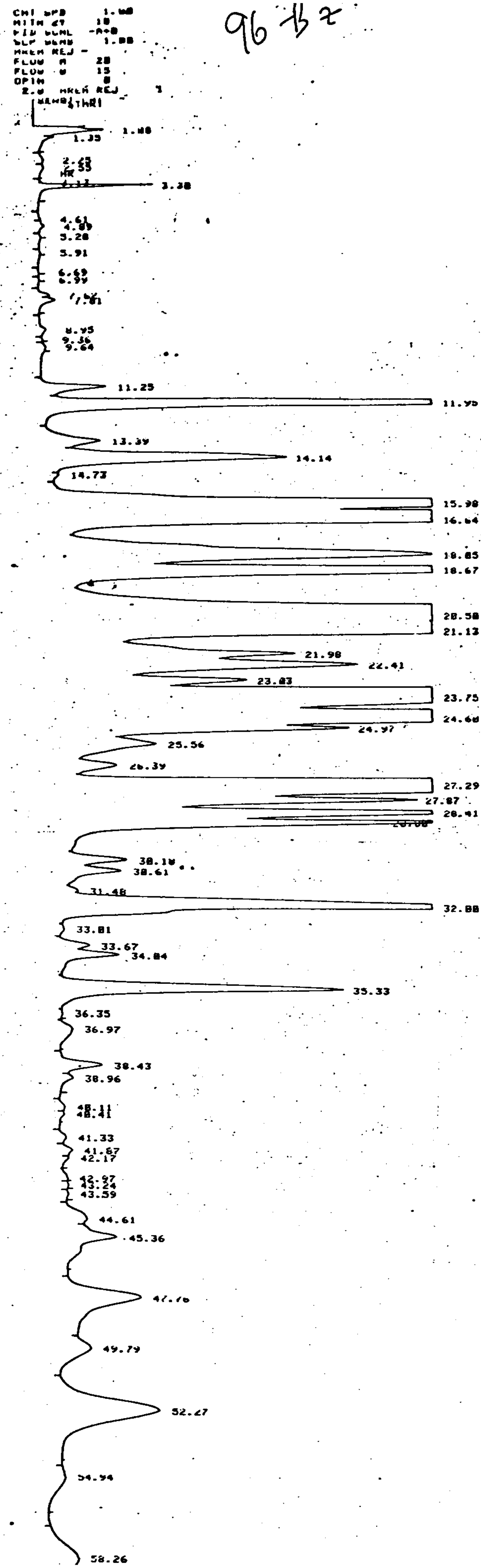

INJ
2.24
2.97
4.08
5.22
5.99
6.38
6.54
7.67
7.93
8.43
9.02
9.38
10.10
10.38
10.81
11.29
11.59
11.87
12.21
12.49
13.04
13.55
13.91
14.66
14.85
15.76
16.12
16.35
16.67
17.00
17.45
17.85
18.51
18.97
19.78
20.32
20.72
21.08
21.91
22.64
23.19
23.85
24.68
25.58
26.04
27.93
29.18
33.87
35.67
38.18
41.49
48.01
50.18
Program ended
Baking out @ 250°

041

042

078
079
45.48
37.08
44.11
5.49
3.32
7.69
9.27
9.67
18.68
11.94
13.19
14.83
14.36
15.88
15.43
16.25
17.89
17.69
18.87
18.47
19.13
19.94
20.63
21.64
22.18
22.73
23.61
24.17
24.75
25.56
26.21
26.72
27.47
28.18
28.78
29.83
30.39
31.59
32.13
33.85
33.48
34.81
35.48
36.88
38.17
38.59
39.83
40.09
48.49
41.09
41.52
41.33
42.93
43.25
43.83
44.45

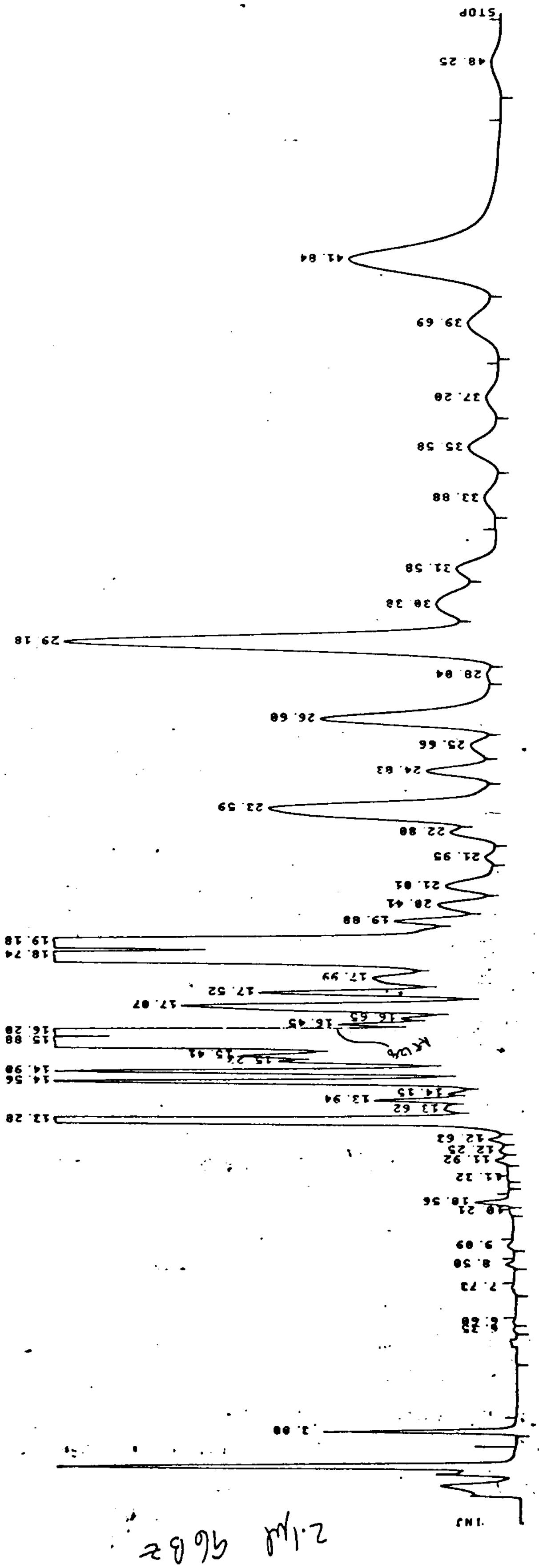
96 Ⲃ 2

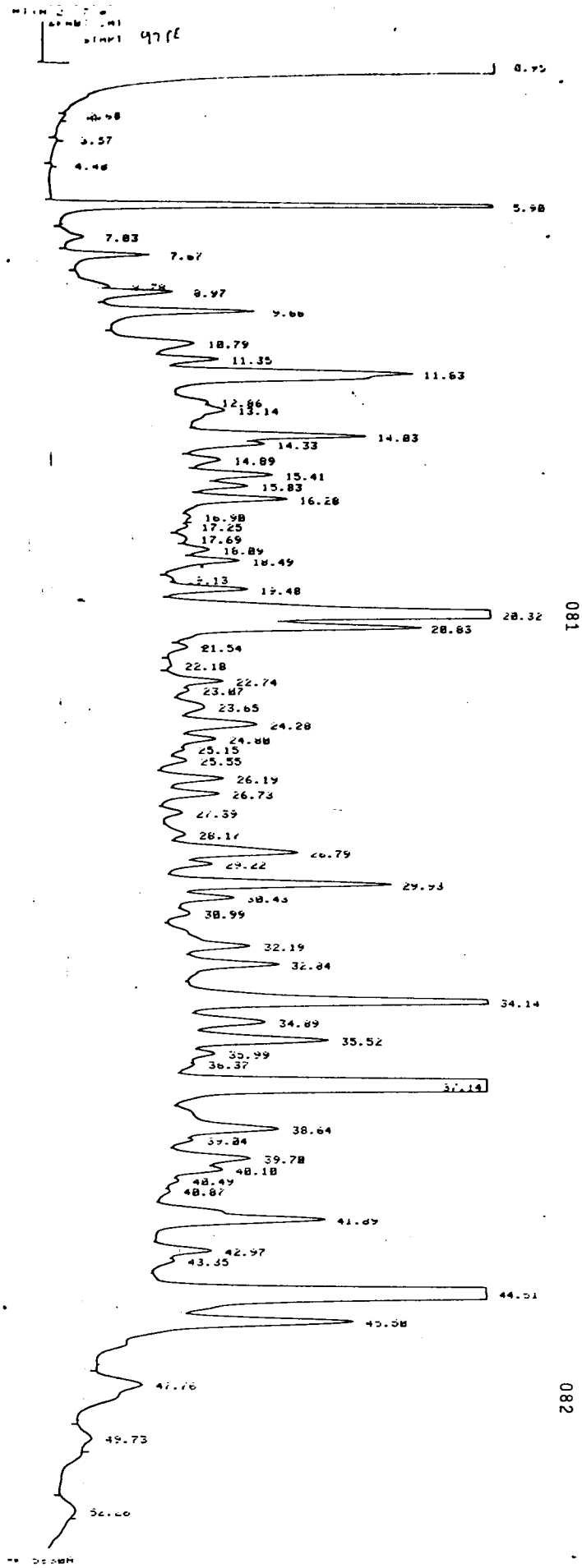


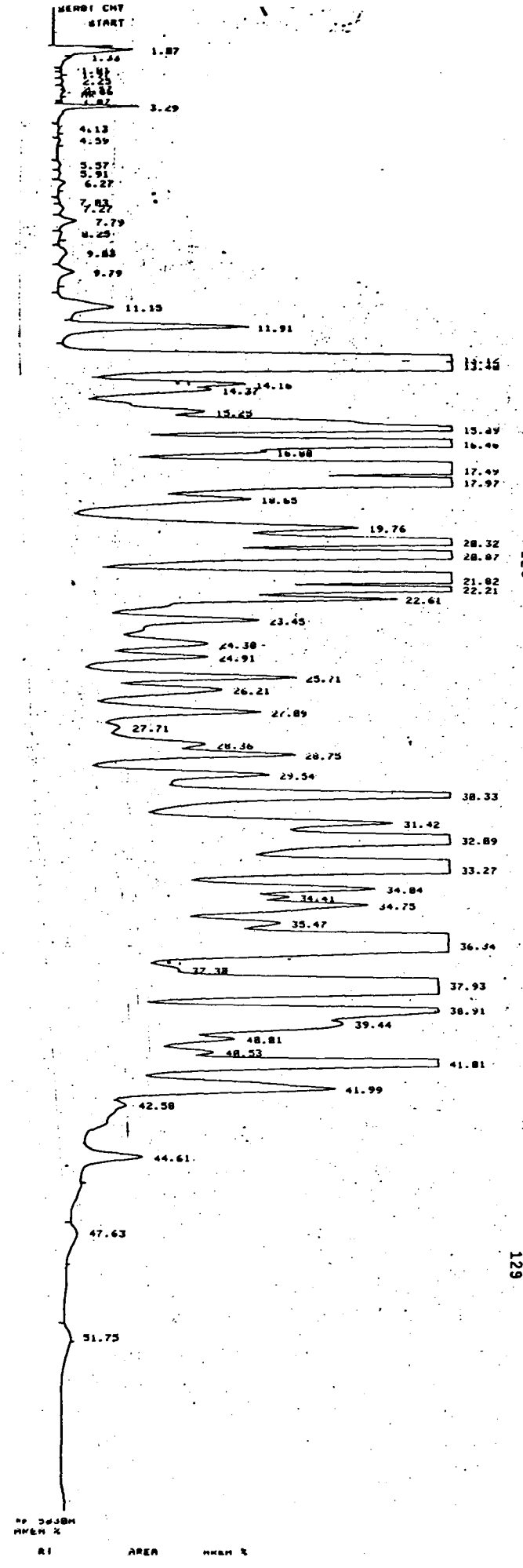
1.00
1.35
3.38
4.61
5.28
5.91
6.69
6.99
8.95
9.36
9.64
11.25
11.95
13.39
14.14
14.73
15.98
16.64
18.05
18.67
20.58
21.13
21.98
22.41
23.03
23.75
24.60
24.97
25.56
26.39
27.29
27.87
28.41
30.10
30.61
31.48
32.88
33.81
33.67
34.84
35.33
36.35
36.97
38.43
38.96
40.11
40.41
41.33
41.67
42.17
42.97
43.24
43.59
44.61
45.36
47.76
49.79
52.27
54.94
58.26

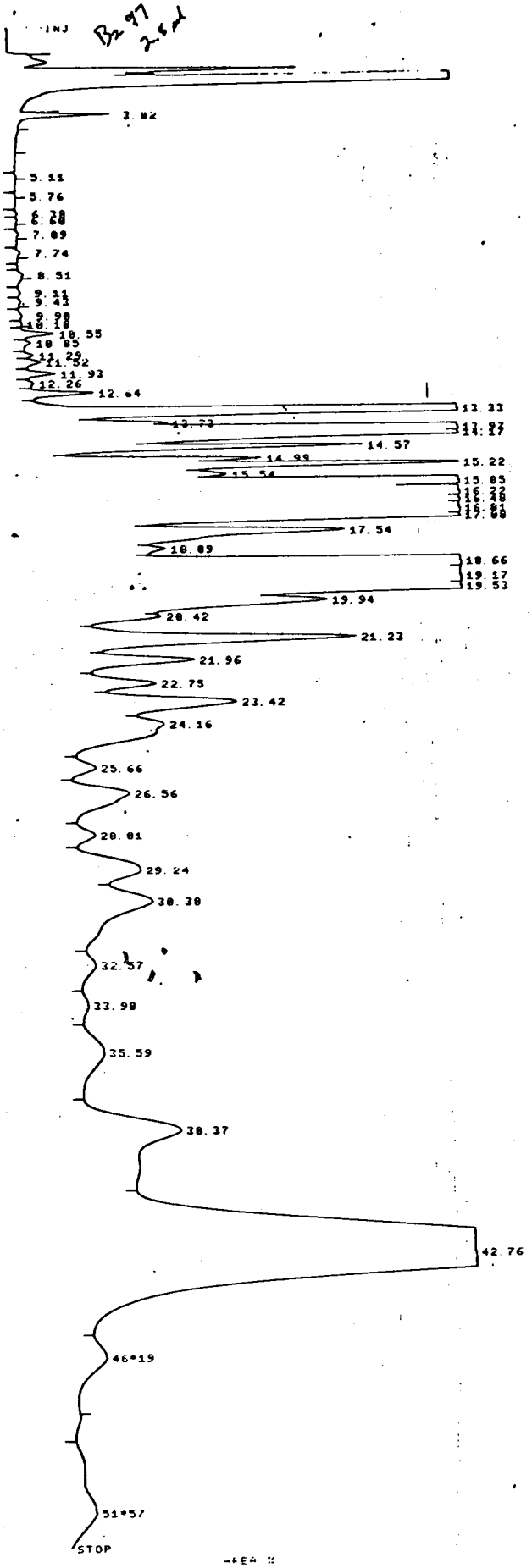
142

143


INJ
3.00
6.25
6.28
7.73
8.50
9.09
10.21
10.56
11.32
11.92
12.25
12.63
13.28
13.62
13.94
14.15
14.56
14.98
15.41
15.88
16.28
16.45
16.65
17.07
17.52
17.99
18.74
19.18
19.88
20.41
21.01
21.95
22.80
23.59
24.83
25.66
26.60
28.04
29.18
30.38
31.58
33.88
35.58
37.20
39.69
41.84
48.25
STOP

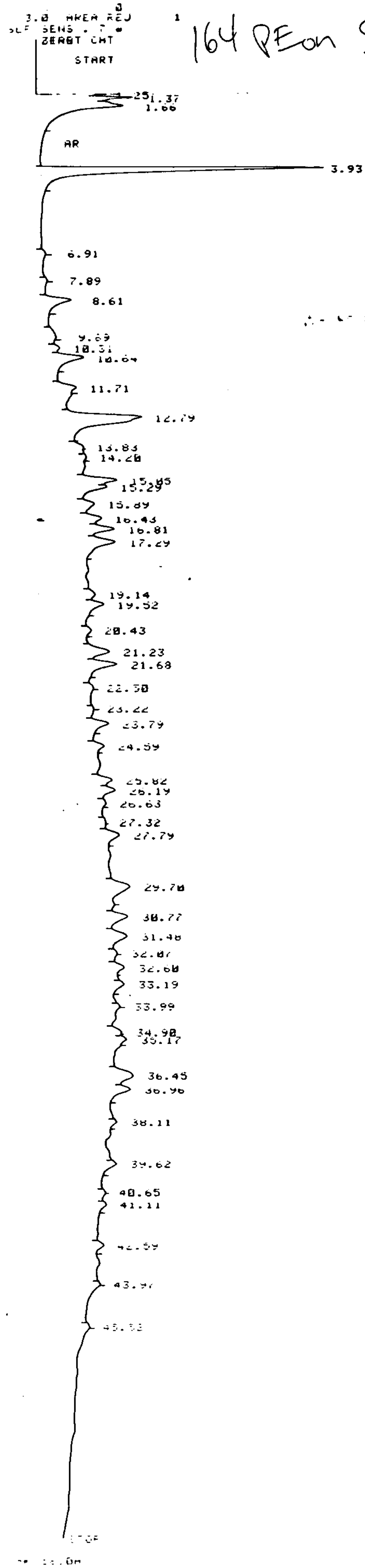

3.57
4.46
5.98
7.83
9.97
11.63
13.14
14.83
28.32
28.83
44.51
49.73


KERBI CHT
START
1.87
3.49
4.13
4.39
5.57
5.91
6.27
7.27
7.79
9.88
9.79
11.15
11.91
14.10
15.49
16.98
17.97
18.65
19.76
20.32
20.87
21.82
22.21
22.61
23.45
24.30
24.91
25.71
26.21
27.89
27.71
28.36
28.75
29.54
30.33
31.42
32.89
33.27
34.84
34.41
34.75
35.47
36.34
37.38
37.93
38.91
39.44
40.81
40.53
41.81
41.99
42.58
44.61
47.63
51.75
AREA
128
129


INJ
Bz 97
2nd
3.82
5.11
5.76
6.28
6.68
7.09
7.74
8.51
9.11
9.43
9.98
10.18
10.55
10.85
11.29
11.52
11.93
12.26
12.64
13.33
13.73
13.97
14.17
14.57
14.99
15.22
15.54
15.85
16.22
16.48
16.61
17.08
17.54
18.09
18.66
19.17
19.53
19.94
20.42
21.23
21.96
22.75
23.42
24.16
25.66
26.56
28.01
29.24
30.38
32.57
33.98
35.59
38.37
42.76
46*19
51*57
STOP

048

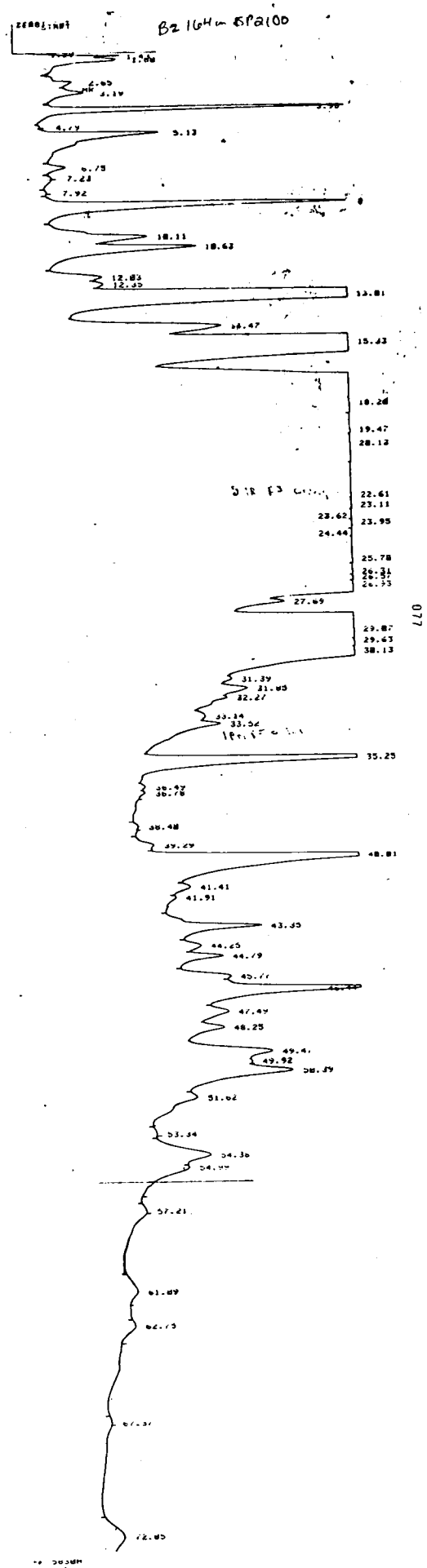
049



164 PE on SP2100

087

088


Bz 16H in 65Pa100
5.13
7.23
7.92
18.11
18.63
12.83
12.39
13.81
14.47
15.43
16.26
19.47
20.12
22.61
23.11
23.62
23.95
24.44
25.78
27.69
29.87
29.63
30.13
31.39
31.83
32.27
33.14
33.54
35.25
38.48
39.29
40.81
41.41
41.91
43.35
44.65
44.79
47.49
48.25
49.41
49.92
51.62
53.34
54.36
57.21
61.89
62.73
72.85

SAMPLE NUMBER: 75

BLM CODE: II-C-1 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 52 SAMPLE WEIGHT: 2.894 GRAMS

ISP/N-ALK: 0.014 BRANCHED/NORMAL: 3.078

ODD/EVEN: 2.329 ODD/EVEN ≤20: 1.384 ODD/EVEN >20: 2.606

N-ALK/ALL: 0.245 N-ALK/C16: 0.0 N-ALK (≤20/>20): 0.42

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.42

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 25.412

RT	RI	AREA	UG/PEAK	PCT	UG/G
9.58	0.0	0.	0.0	0.0	0.0
10.72	1655.53	748.	0.0225	0.03	0.0078
11.78	1702.45	34720.	1.0445	1.42	0.3609
12.54	1738.52	710.	0.0214	0.03	0.0074
12.81	1750.81	223.	0.0067	0.01	0.0023
13.10	1763.73	742.	0.0223	0.03	0.0077
13.38	1775.93	260.	0.0078	0.01	0.0027
13.97	1800.97	19650.	0.5911	0.80	0.2043
14.25	1814.41	8264.	0.2486	0.34	0.0859
14.97	1847.79	1880.	0.0566	0.08	0.0195
15.37	1865.64	7164.	0.2155	0.29	0.0745
16.19	1900.96	11790.	0.3547	0.48	0.1226
16.77	1928.20	61190.	1.8408	2.50	0.6361
17.60	1965.59	667.	0.0201	0.03	0.0069
18.05	1985.13	418.	0.0126	0.02	0.0043
18.41	2000.49	13950.	0.4197	0.57	0.1450
19.35	2045.35	21340.	0.6420	0.87	0.2218
20.20	2084.08	56930.	1.7126	2.33	0.5918
20.59	2101.50	101800.	3.0625	4.16	1.0582
21.46	2144.05	48520.	1.4596	1.98	0.5044
21.87	2163.51	327.	0.0098	0.01	0.0034
22.66	2200.00	32290.	0.9714	1.32	0.3357
23.46	2240.44	19500.	0.5866	0.80	0.2027
23.89	2261.61	746400.	22.4542	30.53	7.7589
24.69	2300.00	95160.	2.8627	3.89	0.9892
25.47	2340.72	20900.	0.6287	0.85	0.2173
26.12	2373.71	61940.	1.8634	2.53	0.6439
26.65	2400.00	25070.	0.7542	1.03	0.2606
27.29	2429.92	3213.	0.0967	0.13	0.0334
27.98	2461.40	32530.	0.9786	1.33	0.3382
28.55	2486.82	44680.	1.3441	1.83	0.4645
29.25	2526.99	7956.	0.2393	0.33	0.0827
29.70	2556.92	17100.	0.5144	0.70	0.1778
30.35	2599.35	29400.	0.8844	1.20	0.3056
31.59	2670.86	13750.	0.4136	0.56	0.1429
32.14	2701.81	51600.	1.5523	2.11	0.5364
32.75	2738.25	34250.	1.0304	1.40	0.3560
33.14	2761.20	46450.	1.3974	1.90	0.4829
33.84	2801.87	27260.	0.8201	1.12	0.2834
34.07	2816.17	41150.	1.2379	1.68	0.4278
34.71	2855.46	146200.	4.3982	5.98	1.5198

35.46	2900.64	74020.	2.2268	3.03	0.7694
35.81	2923.17	20440.	0.6149	0.84	0.2125
36.43	2962.53	51360.	1.5451	2.10	0.5339
36.91	2992.55	55290.	1.6633	2.26	0.5747
38.13	3072.77	24400.	0.7340	1.00	0.2536
38.56	3100.68	33070.	0.9949	1.35	0.3438
39.59	3170.20	32630.	0.9816	1.33	0.3392
39.99	3196.71	23910.	0.7193	0.98	0.2485
41.16	3277.56	20070.	0.6038	0.82	0.2086
41.75	3318.56	195500.	5.8813	8.00	2.0322
42.87	3397.23	25820.	0.7768	1.06	0.2684

CCTTER/MEYERS U OF M

SAMPLE NUMBER: 75

BLM CODE: II-C-1 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 28 SAMPLE WEIGHT: 2.894 GRAMS

ISP/N-ALK: 0.039 BRANCHED/NORMAL: 1.577

ODD/EVEN: 1.357 ODD/EVEN ≤20: 1.077 ODD/EVEN >20: 1.340

N-ALK/ALL: 0.388 N-ALK/C16: 0.0 N-ALK (≤20/>20): 0.37

PRIS/PHYT: 2.17 PRIS/C17: 0.43 PHYT/C18: 0.28

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 12.225

RT	RI	AREA	UG/PEAK	PCT	UG/G
8.74	1660.93	4696.	0.3699	1.05	0.1278
9.32	1700.78	10914.	0.8597	2.43	0.2971
10.02	1753.17	2458.	0.1936	0.55	0.0669
10.24	1768.88	2168.	0.1708	0.48	0.0590
10.70	1800.81	7720.	0.6081	1.72	0.2101
11.40	1855.63	2084.	0.1642	0.46	0.0567
11.79	1884.73	1668.	0.1314	0.37	0.0454
12.05	1903.87	4950.	0.3899	1.10	0.1347
12.48	1936.53	3755.	0.2958	0.84	0.1022
12.73	1955.01	2367.	0.1864	0.53	0.0644
13.38	2001.67	7015.	0.5526	1.56	0.1909
13.73	2030.54	18176.	1.4317	4.05	0.4947
14.08	2058.69	20245.	1.5947	4.51	0.5510
14.61	2100.00	14693.	1.1573	3.27	0.3999
14.95	2128.68	42093.	3.3156	9.37	1.1457
15.32	2159.17	53926.	4.2477	12.01	1.4677
15.83	2200.00	26848.	2.1148	5.98	0.7307
16.45	2251.34	37354.	2.9423	8.32	1.0167
16.81	2280.27	22022.	1.7346	4.90	0.5994
17.05	2299.22	22946.	1.8074	5.11	0.6245
17.39	2323.18	32229.	2.5386	7.18	0.8772
18.18	2376.93	11836.	0.9323	2.64	0.3222
18.50	2398.04	16428.	1.2940	3.66	0.4471
20.26	2500.93	6232.	0.4909	1.39	0.1696
20.99	2534.23	3606.	0.2840	0.80	0.0981
22.48	2598.75	8293.	0.6532	1.85	0.2257
23.53	2638.58	14204.	1.1188	3.16	0.3866
25.16	2696.89	48241.	3.7999	10.74	1.3130

COTTER/MEYERS U OF M

SAMPLE NUMBER: 75 BLM NUMBER: II-C-1

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 48 SAMPLE WEIGHT: 2.894 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 31.370

RT	PT	AREA	UG/PEAK	PCT	UG/G
10.99	1667.81	65960.	3.5546	3.92	1.2283
11.61	1694.92	9434.	0.5111	0.56	0.1766
11.94	1711.24	6742.	0.3633	0.40	0.1255
12.67	1744.47	2076.	0.1119	0.12	0.0387
13.02	1760.20	333.	0.0179	0.02	0.0062
13.66	1787.88	233600.	12.5869	13.87	4.3500
14.53	1827.58	15049.	0.8109	0.89	0.2801
14.76	1838.22	16380.	0.8827	0.97	0.3050
15.23	1859.45	4264.	0.2298	0.25	0.0794
16.01	1893.27	15540.	0.8375	0.92	0.2894
17.39	1956.38	2895.	0.1560	0.17	0.0539
17.91	1979.11	12310.	0.6634	0.73	0.2292
18.19	1991.12	85220.	4.5926	5.06	1.5869
18.87	2022.72	4196.	0.2262	0.25	0.0779
19.34	2044.89	1165.	0.0628	0.07	0.0217
20.27	2087.20	21140.	1.1392	1.25	0.3937
20.89	2116.37	1770.	0.0954	0.11	0.0330
21.67	2154.07	23430.	1.2627	1.39	0.4363
22.59	2198.82	5884.	0.3171	0.35	0.1096
22.96	2215.33	611.	0.0329	0.04	0.0114
23.51	2242.92	7766.	0.4185	0.46	0.1446
23.93	2255.68	18170.	0.9792	1.08	0.3384
24.97	2314.76	6776.	0.3652	0.40	0.1262
25.91	2359.68	63360.	3.4145	3.76	1.1799
26.15	2375.21	119900.	6.4615	7.12	2.2327
26.94	2413.65	22970.	1.2379	1.36	0.4277
27.37	2433.61	130700.	7.0435	7.76	2.4338
27.73	2450.68	185100.	9.9752	11.00	3.4468
28.19	2472.82	15800.	0.8515	0.94	0.2942
29.26	2527.66	6938.	0.3766	0.41	0.1301
29.59	2549.64	23890.	1.2874	1.42	0.4449
29.95	2573.35	28310.	1.5256	1.68	0.5272
30.32	2597.42	48120.	2.5932	2.86	0.8961
31.03	2638.95	5790.	0.3120	0.34	0.1078
31.39	2659.53	47750.	2.5733	2.83	0.8892
32.73	2737.07	825.	0.0445	0.05	0.0154
33.37	2774.60	1712.	0.0923	0.10	0.0319
34.08	2816.79	293100.	15.7953	17.42	5.4580
35.21	2873.63	11860.	0.6388	0.70	0.2207
36.27	2952.44	53870.	2.9031	3.20	1.0031
38.39	3083.83	19660.	1.0272	1.13	0.3549
38.78	3115.69	3337.	0.1798	0.20	0.0621
39.56	3167.53	8148.	0.4391	0.48	0.1517
40.08	3202.81	6275.	0.3382	0.37	0.1168
41.16	3278.92	7542.	0.4064	0.45	0.1404
41.69	3326.52	958.	0.0516	0.06	0.0178
42.43	3377.77	3569.	0.1923	0.21	0.0665
42.97	[illegible]	14930.	0.8046	0.89	0.2780

COTTER/MEYERS U OF M

SAMPLE NUMBER: 75 BLM NUMBER: II-C-1

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 28 SAMPLE WEIGHT: 2.894 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 36.216

RT	RI	AREA	UG/PEAK	PCT	UG/G
8.76	1662.34	2525.	0.3081	0.29	0.1064
9.33	1701.55	3063.	0.3737	0.36	0.1291
10.02	1753.17	1835.	0.2239	0.21	0.0774
11.10	1832.56	1702.	0.2076	0.20	0.0718
11.78	1883.99	20426.	2.4920	2.38	0.8611
12.57	1943.23	22139.	2.7010	2.58	0.9333
12.94	1970.25	12573.	1.5339	1.46	0.5300
13.43	2005.84	2740.	0.3343	0.32	0.1155
13.69	2027.28	13811.	1.6850	1.61	0.5822
14.08	2058.69	7363.	0.8983	0.86	0.3104
14.43	2086.14	462.	0.0564	0.05	0.0195
15.02	2134.51	134046.	16.3538	15.60	5.6509
15.33	2159.98	16584.	2.0233	1.93	0.6991
15.67	2187.33	11236.	1.3708	1.31	0.4737
15.88	2204.22	7854.	0.9582	0.91	0.3311
16.28	2237.46	9612.	1.1727	1.12	0.4052
16.95	2291.35	2242.	0.2735	0.26	0.0945
17.18	2308.48	8489.	1.0357	0.99	0.3579
17.45	2327.35	58677.	7.1587	6.83	2.4736
17.62	2339.08	57278.	6.9880	6.67	2.4146
18.16	2375.60	15814.	1.9293	1.84	0.6667
18.66	2407.92	49318.	6.0169	5.74	2.0791
19.29	2445.54	10763.	1.3131	1.25	0.4537
19.98	2485.35	14629.	1.7848	1.70	0.6167
20.61	2517.04	4316.	0.5266	0.50	0.1819
22.26	2589.49	28595.	3.4886	3.33	1.2055
25.11	2695.16	64068.	7.8164	7.46	2.7009
28.53	2796.41	276923.	33.7850	32.23	11.6741

COTTER/MEYERS U OF M

SAMPLE NUMBER: 76

BLM CODE: 43 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 36 SAMPLE WEIGHT: 3.516 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 3.479

ODD/EVEN: 2.236 ODD/EVEN ≤20: 3.018 ODD/EVEN >20: 1.819

N-ALK/ALL: 0.223 N-ALK/C16: 0.0 N-ALK (≤20/>20): 1.54

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 4.775

RT	EI	AREA	UG/PEAK	PCT	UG/G
11.81	1703.92	23540.	0.9314	5.55	0.2649
12.58	1740.36	337.	0.0133	0.08	0.0038
14.01	1802.91	5224.	0.2067	1.23	0.0588
14.99	1848.69	1613.	0.0638	0.38	0.0182
15.41	1867.40	878.	0.0347	0.21	0.0099
15.82	1885.18	544.	0.0215	0.13	0.0061
16.25	1903.82	5410.	0.2140	1.27	0.0609
17.22	1948.70	9976.	0.3947	2.35	0.1123
18.47	2003.42	4370.	0.1729	1.03	0.0492
19.39	2047.22	24020.	0.9503	5.66	0.2703
20.24	2085.87	31770.	1.2570	7.49	0.3575
20.75	2109.46	17270.	0.6833	4.07	0.1943
21.51	2146.44	45320.	1.7931	10.68	0.5100
22.71	2202.57	3380.	0.1337	0.80	0.0380
23.45	2239.94	6756.	0.2673	1.59	0.0760
24.19	2276.15	475.	0.0188	0.11	0.0053
24.73	2302.12	3508.	0.1388	0.83	0.0395
25.25	2329.36	2584.	0.1022	0.61	0.0291
26.21	2378.21	318.	0.0126	0.07	0.0036
26.68	2401.42	3870.	0.1531	0.91	0.0435
27.23	2427.14	10970.	0.4340	2.59	0.1234
28.57	2487.70	6301.	0.2493	1.48	0.0709
29.97	2574.66	4410.	0.1745	1.04	0.0496
30.39	2601.76	6544.	0.2589	1.54	0.0736
31.58	2670.30	2985.	0.1181	0.70	0.0336
32.15	2702.41	6668.	0.2638	1.57	0.0750
33.84	2801.87	3847.	0.1522	0.91	0.0433
34.65	2851.81	594.	0.0235	0.14	0.0067
35.47	2901.29	7842.	0.3103	1.85	0.0882
37.06	3002.01	5254.	0.2079	1.24	0.0591
38.19	3076.67	14410.	0.5701	3.40	0.1622
38.59	3102.73	15290.	0.6049	3.60	0.1721
39.62	3172.19	58460.	2.3130	13.78	0.6578
40.83	3254.93	972.	0.0385	0.23	0.0109
41.77	3319.99	85760.	3.3931	20.21	0.9650
42.92	0.0	2861.	0.1132	0.67	0.0322

COTTER/MEYERS U OF M

SAMPLE NUMBER: 76

BLM CODE: 43 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 24 SAMPLE WEIGHT: 3.516 GRAMS

ISP/N-ALK: 0.341 BRANCHED/NORMAL: 3.909

ODD/EVEN: 0.922 ODD/EVEN ≤20: 1.348 ODD/EVEN >20: 1.152

N-ALK/ALL: 0.204 N-ALK/C16: 0.0 N-ALK (≤20/>20): 2.01

PRIS/PHYT: 2.07 PRIS/C17: 0.95 PHYT/C18: 0.60

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 2.266

RT	RI	AREA	UG/PEAK	PCT	UG/G
8.75	1661.63	6350.	0.3735	4.69	0.1062
9.33	1701.55	6677.	0.3927	4.93	0.1117
10.02	1753.17	3881.	0.2283	2.87	0.0649
10.25	1769.59	3071.	0.1806	2.27	0.0514
10.72	1802.42	5086.	0.2992	3.75	0.0851
11.13	1834.89	411.	0.0242	0.30	0.0069
11.80	1885.46	1446.	0.0851	1.07	0.0242
12.07	1905.42	4019.	0.2364	2.97	0.0672
12.48	1936.53	6908.	0.4063	5.10	0.1156
13.40	2003.34	4823.	0.2837	3.56	0.0807
13.76	2032.98	14642.	0.8612	10.81	0.2449
14.10	2060.27	11197.	0.6586	8.27	0.1873
14.45	2087.69	2406.	0.1415	1.78	0.0403
14.63	2101.71	2010.	0.1182	1.48	0.0336
14.98	2131.18	33672.	1.9806	24.86	0.5633
15.63	2184.15	3298.	0.1940	2.43	0.0552
15.86	2202.53	2471.	0.1453	1.82	0.0413
16.84	2282.65	3339.	0.1964	2.46	0.0559
17.06	2300.00	4049.	0.2382	2.99	0.0677
17.42	2325.27	1767.	0.1039	1.30	0.0296
18.22	2379.59	2794.	0.1643	2.06	0.0467
19.29	2445.54	0.	0.0	0.0	0.0
20.22	2498.88	2478.	0.1458	1.83	0.0415
23.93	2653.26	8664.	0.5096	6.40	0.1449

CCITER/MEYERS U OF M

SAMPLE NUMBER: 76 BLM NUMBER: 43

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 38 SAMPLE WEIGHT: 3.516 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 10.583

RT	PI	AREA	UG/PEAK	PCT	UG/G
11.13	1674.27	3362.	0.0490	0.13	0.0139
11.31	1681.99	7898.	0.1152	0.31	0.0328
12.94	1756.64	520.	0.0076	0.02	0.0022
13.68	1788.72	9138.	0.1333	0.36	0.0379
14.35	1819.14	2852.	0.0416	0.11	0.0118
15.13	1854.98	3759.	0.0548	0.15	0.0156
16.53	1917.64	3699.	0.0539	0.14	0.0153
17.09	1942.83	1054.	0.0154	0.04	0.0044
17.38	1955.86	444.	0.0065	0.02	0.0018
18.05	1985.13	5662.	0.0824	0.22	0.0234
19.39	2047.22	611.	0.0089	0.02	0.0025
19.83	2069.70	1037.	0.0151	0.04	0.0043
20.29	2088.09	6658.	0.0971	0.26	0.0276
21.98	2168.67	12600.	0.1837	0.49	0.0523
23.59	2242.43	1953.	0.0285	0.08	0.0081
23.87	2260.63	2103.	0.0307	0.08	0.0087
25.54	2344.31	1582.	0.0231	0.06	0.0066
25.89	2362.13	13840.	0.2026	0.54	0.0576
26.77	2405.67	2026.	0.0295	0.08	0.0084
27.43	2436.37	19600.	0.2858	0.77	0.0813
27.77	2451.90	23770.	0.3466	0.93	0.0986
28.37	2478.85	506.	0.0074	0.02	0.0021
29.29	2529.67	40500.	0.5906	1.59	0.1680
29.99	2575.96	3676.	0.0536	0.14	0.0152
31.11	2643.54	1285.	0.0187	0.05	0.0053
31.75	2679.88	557.	0.0081	0.02	0.0023
32.97	2751.23	1939.	0.0283	0.08	0.0080
33.54	2787.34	19580.	0.2855	0.77	0.0812
34.09	2817.41	991000.	14.4513	38.84	4.1102
36.43	2962.53	21900.	0.3194	0.86	0.0908
36.73	2981.34	31250.	0.4557	1.22	0.1296
38.05	3067.54	13320.	0.1942	0.52	0.0552
38.83	3119.08	130300.	1.9001	5.11	0.5404
39.50	3164.20	255200.	3.7215	10.00	1.0584
40.19	3210.51	199800.	2.9136	7.83	0.8287
41.06	3270.72	210100.	3.0638	8.23	0.8714
41.57	3305.73	95800.	1.3979	3.76	0.3976
42.46	3368.68	410600.	5.9876	16.09	1.7030

COTTER/MEYERS U OF M

SAMPLE NUMBER: 76 BLM NUMBER: 43

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 21 SAMPLE WEIGHT: 3.516 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 8.534

RT	RI	AREA	UG/PEAK	PCT	UG/G
9.34	1702.33	1225.	0.2230	0.74	0.0634
10.04	1754.61	912.	0.1660	0.55	0.0472
11.80	1885.46	3067.	0.5584	1.86	0.1588
12.61	1946.19	574.	0.1045	0.35	0.0297
12.90	1967.36	5943.	1.0820	3.61	0.3077
13.53	2014.14	10026.	1.8254	6.08	0.5192
14.41	2084.59	13731.	2.4999	8.33	0.7110
14.96	2129.52	4797.	0.8734	2.91	0.2484
15.35	2161.61	1098.	0.1999	0.67	0.0569
15.71	2190.51	8422.	1.5333	5.11	0.4361
16.16	2227.57	3303.	0.6014	2.00	0.1710
16.65	2267.49	2575.	0.4688	1.56	0.1333
16.97	2292.93	3015.	0.5489	1.83	0.1561
17.20	2309.89	11147.	2.0294	6.76	0.5772
17.70	2344.56	949.	0.1728	0.58	0.0491
18.21	2378.92	14016.	2.5518	8.50	0.7258
18.73	2412.16	7411.	1.3493	4.50	0.3837
19.94	2483.08	9333.	1.6992	5.66	0.4833
21.99	2578.01	8734.	1.5901	5.30	0.4523
25.18	2697.58	17869.	3.2533	10.84	0.9253
28.70	0.0	36666.	6.6755	22.25	1.8986

COTTER/MEYERS U OF M

SAMPLE NUMBER: 77

BLM CODE: II-S-7 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 37 SAMPLE WEIGHT: 2.778 GRAMS

ISP/N-ALK: 0.068 BRANCHED/NORMAL: 0.885

ODD/EVEN: 0.189 ODD/EVEN ≤20: 0.210 ODD/EVEN >20: 0.880

N-ALK/ALL: 0.531 N-ALK/C16: 20.23 N-ALK (≤20/>20): 6.38

PRIS/PHYT: 3.00 PRIS/C17: 0.61 PHYT/C18: 0.27

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 0.773

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.52	0.0	8550.	0.0803	3.74	0.0289
2.84	0.0	0.	0.0	0.0	0.0
3.24	0.0	17620.	0.1654	7.70	0.0595
3.78	0.0	774.	0.0073	0.34	0.0026
4.04	0.0	617.	0.0058	0.27	0.0021
4.84	1400.91	79758.	0.7488	34.87	0.2695
5.42	1450.43	433.	0.0041	0.19	0.0015
6.08	1500.83	977.	0.0092	0.43	0.0033
6.75	1553.60	959.	0.0090	0.42	0.0032
7.41	1600.80	5998.	0.0563	2.62	0.0203
8.20	1660.84	6144.	0.0577	2.69	0.0208
8.78	1701.57	10109.	0.0949	4.42	0.0342
9.48	1754.36	1828.	0.0172	0.80	0.0062
9.69	1769.44	2049.	0.0192	0.90	0.0069
10.15	1801.58	7641.	0.0717	3.34	0.0258
10.84	1854.15	4009.	0.0376	1.75	0.0135
11.49	1900.81	4099.	0.0385	1.79	0.0139
11.93	1935.84	987.	0.0093	0.43	0.0033
12.17	1954.41	1456.	0.0137	0.64	0.0049
12.38	1970.36	707.	0.0066	0.31	0.0024
12.81	2002.51	2805.	0.0263	1.23	0.0095
13.53	2061.11	21981.	0.2064	9.61	0.0743
14.06	2102.56	1611.	0.0151	0.70	0.0054
14.47	2137.04	406.	0.0038	0.18	0.0014
14.76	2160.83	3453.	0.0324	1.51	0.0117
15.28	2202.70	2739.	0.0257	1.20	0.0093
15.54	2225.91	1584.	0.0149	0.69	0.0054
15.88	2255.68	1644.	0.0154	0.72	0.0056
16.42	2301.57	1601.	0.0150	0.70	0.0054
17.14	2356.60	3843.	0.0361	1.68	0.0130
17.63	2392.75	9221.	0.0866	4.03	0.0312
18.16	2429.51	3061.	0.0287	1.34	0.0103
18.61	2459.65	4023.	0.0378	1.76	0.0136
19.28	2502.54	4021.	0.0377	1.76	0.0136
20.57	2565.89	5582.	0.0524	2.44	0.0189
23.92	0.0	4053.	0.0380	1.77	0.0137
34.00	0.0	2401.	0.0225	1.05	0.0081

COTTER/MEYERS U OF M

SAMPLE NUMBER: 77 BLM NUMBER: II-S-7

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: 65 SAMPLE WEIGHT: 2.778 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 542.410

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.49	1302.37	2327.	0.0512	0.00	0.0184
5.95	1401.94	10790.	0.2372	0.02	0.0854
7.07	1468.21	25440.	0.5594	0.04	0.2014
7.73	1502.79	26430.	0.5812	0.04	0.2096
8.20	1528.18	14060.	0.3091	0.02	0.1113
8.95	1565.83	143700.	3.1596	0.21	1.1374
9.73	1602.09	105300.	2.3153	0.15	0.8334
10.86	1656.65	96660.	2.1253	0.14	0.7651
11.37	1679.45	658610.	14.4811	0.96	5.2128
12.07	1710.71	2587010.	56.8821	3.77	20.4759
12.70	1740.34	508640.	11.1824	0.74	3.9955
13.29	1766.35	484200.	10.6464	0.71	3.8324
13.59	1779.79	411500.	9.0459	0.60	3.2491
14.30	1810.98	672200.	14.7801	0.98	5.3204
14.99	1838.34	237000.	5.2109	0.35	1.8830
15.76	1876.78	448500.	9.8615	0.65	3.5498
16.68	1893.39	2655000.	58.3773	3.87	21.0141
16.65	1916.10	8390000.	184.4766	12.24	66.4063
17.79	1967.78	957800.	21.0598	1.40	7.5809
18.03	1980.40	1768000.	38.8742	2.58	13.9936
18.77	2011.19	1768000.	38.8742	2.58	13.9936
18.92	2018.41	1017000.	22.3615	1.48	8.0495
20.49	2090.75	5362000.	117.8979	7.82	42.4399
21.03	2116.37	4348000.	95.6024	6.34	34.4141
21.99	2162.57	822610.	18.0871	1.20	6.5108
22.41	2182.15	879200.	19.3316	1.28	6.9588
23.11	2215.84	554110.	12.1834	0.81	4.3857
23.71	2245.89	4975000.	109.3887	7.26	39.3768
24.13	2269.38	1319000.	29.0017	1.92	10.4398
24.57	2287.66	3937000.	86.5655	5.74	31.1611
25.75	2347.65	792200.	17.4186	1.16	6.2702
26.53	2386.74	400100.	8.7973	0.58	3.1668
27.36	2430.19	5388000.	118.4696	7.86	42.6456
27.95	2461.34	967200.	21.2665	1.41	7.6553
28.48	2488.77	838400.	18.4345	1.22	6.6359
28.94	2513.62	629500.	13.8412	0.92	4.9824
29.71	2556.55	151000.	3.3201	0.22	1.1952
30.07	2576.25	427100.	9.3909	0.62	3.3805
30.62	2606.42	1239500.	27.2427	1.81	9.8066
32.04	2690.03	673000.	14.7977	0.98	5.3267
32.53	2715.72	434300.	9.5492	0.63	3.4375
33.57	2777.37	77430.	1.7026	0.11	0.6132
34.25	2818.14	451400.	9.9232	0.66	3.5965
35.21	2877.10	207200.	4.5558	0.30	1.6400
35.49	2894.00	196700.	4.3250	0.29	1.5569
36.00	2926.05	444600.	9.7757	0.65	3.5190
36.49	2956.79	188000.	4.1337	0.27	1.4880
37.57	3025.54	472800.	10.3958	0.69	3.7422
38.22	3068.64	759600.	16.7018	1.11	6.0122
38.95	3116.93	502900.	11.0576	0.73	3.9804
39.39	3146.47	417300.	9.1755	0.61	3.3029

39.93	3182.28	1243000.	27.3307	1.81	9.8383
40.53	0.0	342200.	7.5242	0.50	2.7085
41.30	0.0	708600.	15.5805	1.03	5.6085
42.13	0.0	288100.	6.3347	0.42	2.2803
42.61	0.0	344800.	7.5814	0.50	2.7291
43.52	0.0	597300.	13.1332	0.87	4.7276
44.07	0.0	425900.	9.3646	0.62	3.3710
44.51	0.0	175300.	3.8544	0.26	1.3875
45.05	0.0	6153.	0.1353	0.01	0.0487
45.71	0.0	3397000.	74.6922	4.96	26.8870
46.60	0.0	41660.	0.9160	0.06	0.3297
47.33	0.0	86620.	1.9046	0.13	0.6856
48.07	0.0	3214.	0.0707	0.00	0.0254
48.84	0.0	28440.	0.6253	0.04	0.2251

COTTER/MEYERS U OF M

SAMPLE NUMBER: 77 BLM NUMBER: II-S-7

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 50 SAMPLE WEIGHT: 2.778 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 350.877

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.50	0.0	473.	0.0316	0.00	0.0114
2.85	0.0	0.	0.0	0.0	0.0
3.75	0.0	924.	0.0618	0.01	0.0222
4.85	0.0	3489.	0.2332	0.02	0.0839
6.09	1500.00	6871.	0.4592	0.05	0.1653
6.62	1541.96	598.	0.0400	0.00	0.0144
6.96	1567.14	882.	0.0589	0.01	0.0212
7.42	1599.32	15820.	1.0573	0.11	0.3806
8.13	1653.20	11552.	0.7720	0.08	0.2779
8.79	1699.33	13309.	0.8895	0.09	0.3202
9.70	1767.76	7136.	0.4769	0.05	0.1717
10.17	1800.79	14935.	0.9981	0.10	0.3593
10.90	1856.35	22101.	1.4770	0.15	0.5317
11.51	1900.00	23458.	1.5677	0.16	0.5643
11.99	1938.18	17432.	1.1650	0.12	0.4194
12.28	1960.51	52610.	3.5160	0.36	1.2657
12.83	2001.66	133090.	8.8946	0.91	3.2018
13.02	2017.33	460770.	30.7939	3.16	11.0849
13.35	2044.01	36352.	2.4295	0.25	0.8745
13.47	2053.55	65927.	4.4060	0.45	1.5860
14.01	2095.45	41596.	2.7799	0.29	1.0007
14.30	2119.65	93506.	6.2491	0.64	2.2495
14.48	2134.81	33506.	2.2393	0.23	0.8061
14.79	2160.49	244177.	16.3187	1.67	5.8743
15.18	2192.04	210549.	14.0713	1.44	5.0653
15.57	2223.37	2357911.	157.5827	16.17	56.7252
15.92	2251.00	1031165.	68.9143	7.07	24.8072
16.34	2283.37	114503.	7.6524	0.79	2.7546
16.75	2316.18	567196.	37.9066	3.89	13.6453
17.18	2352.12	417969.	27.9335	2.87	10.0553
17.59	2385.56	228773.	15.2892	1.57	5.5037
18.22	2429.18	1248147.	83.4155	8.56	30.0272
18.69	2458.90	1201365.	80.2890	8.24	28.9017
19.42	2503.16	320945.	21.4492	2.20	7.7211
19.83	2524.52	209084.	13.9734	1.43	5.0300
20.71	2568.90	274500.	18.3452	1.88	6.6038
21.44	0.0	255623.	17.0837	1.75	6.1496
22.13	0.0	59898.	4.0031	0.41	1.4410
22.72	0.0	762462.	50.9565	5.23	18.3429
23.35	0.0	421648.	28.1794	2.89	10.1438
24.10	0.0	265952.	17.7740	1.82	6.3981
25.79	0.0	1018798.	68.0871	6.99	24.5094
28.15	0.0	810890.	54.1930	5.56	19.5079
29.17	0.0	123045.	8.2233	0.84	2.9601
30.30	0.0	144125.	9.6321	0.99	3.4673
32.67	0.0	68680.	4.5900	0.47	1.6523
34.26	0.0	129475.	8.6530	0.89	3.1148
35.87	0.0	101862.	6.8076	0.70	2.4505
38.19	0.0	95931.	6.4112	0.66	2.3079
40.08	0.0	844051.	56.4092	5.79	20.3057

SAMPLE NUMBER: 78

BLM CODE: 54-C SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 31 SAMPLE WEIGHT: 13.996 GRAMS

ISP/N-ALK: 4.018 BRANCHED/NORMAL: 53.492

ODD/EVEN: 0.653 ODD/EVEN ≤20: 0.653 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.018 N-ALK/C16: 0.0 N-ALK(≤20/>20): 0.0

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 6.522

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.95	0.0	0.	0.0	0.0	0.0
6.63	1390.56	82220.	1.2811	1.40	0.0915
7.37	1432.98	3899.	0.0607	0.07	0.0043
8.70	1501.05	16370.	0.2551	0.28	0.0182
10.17	1572.50	65720.	1.0240	1.12	0.0732
10.60	1591.45	3418000.	53.2552	58.34	3.8050
11.11	1614.95	122300.	1.9055	2.09	0.1361
11.53	1634.56	219000.	3.4122	3.74	0.2438
12.31	1669.15	19800.	0.3085	0.34	0.0220
12.63	1682.71	31890.	0.4969	0.54	0.0355
13.02	1698.78	41960.	0.6538	0.72	0.0467
14.14	1749.42	83860.	1.3066	1.43	0.0934
14.54	1766.60	327600.	5.1043	5.59	0.3647
15.11	1790.29	176300.	2.7469	3.01	0.1963
15.74	1818.04	432000.	6.7309	7.37	0.4809
16.15	1836.54	18630.	0.2903	0.32	0.0207
16.95	1871.30	497600.	7.7530	8.49	0.5539
17.59	1897.96	12850.	0.2002	0.22	0.0143
18.81	1953.05	1004.	0.0156	0.02	0.0011
19.81	1995.84	36340.	0.5662	0.62	0.0405
20.35	2020.68	5022.	0.0782	0.09	0.0056
20.81	2041.82	65520.	1.0209	1.12	0.0729
21.57	2075.75	14510.	0.2261	0.25	0.0162
23.27	2153.70	13510.	0.2105	0.23	0.0150
26.11	2285.89	10810.	0.1684	0.18	0.0120
29.12	2433.92	6592.	0.1027	0.11	0.0073
35.60	2779.07	16560.	0.2580	0.28	0.0184
37.26	2874.02	12200.	0.1901	0.21	0.0136
37.86	2908.60	98140.	1.5291	1.68	0.1093
39.72	3021.72	5977.	0.0931	0.10	0.0067
43.41	3255.99	2754.	0.0429	0.05	0.0031

COTTER/MEYERS U OF M

SAMPLE NUMBER: 78

BLM CODE: 54-C SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 21 SAMPLE WEIGHT: 13.996 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 12.222

ODD/EVEN: 3.115 ODD/EVEN ≤20: 3.406 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.076 N-ALK/C16: 18.71 N-ALK (≤20/>20): 1.09

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 7.075

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.03	0.0	0.	0.0	0.0	0.0
5.72	1450.80	39847.	1.3984	1.41	0.0999
6.37	1499.29	12195.	0.4280	0.43	0.0306
7.73	1600.79	11408.	0.4004	0.40	0.0286
8.44	1654.22	1598634.	56.1037	56.66	4.0085
8.84	1682.37	84798.	2.9760	3.01	0.2126
9.14	1703.13	112760.	3.9573	4.00	0.2827
10.49	1801.57	18108.	0.6355	0.64	0.0454
11.19	1854.84	64613.	2.2676	2.29	0.1620
11.52	1878.80	121869.	4.2770	4.32	0.3056
11.79	1897.91	25827.	0.9064	0.92	0.0648
12.13	1924.81	51538.	1.8087	1.83	0.1292
12.67	1966.55	54877.	1.9259	1.94	0.1376
13.39	2022.21	249807.	8.7669	8.85	0.6264
13.80	2055.10	12743.	0.4472	0.45	0.0320
14.48	2108.51	271265.	9.5200	9.61	0.6802
14.87	2141.15	12012.	0.4216	0.43	0.0301
15.89	2224.66	16896.	0.5930	0.60	0.0424
16.25	2254.65	14501.	0.5089	0.51	0.0364
16.85	2303.01	33094.	1.1614	1.17	0.0830
17.40	2343.72	14711.	0.5163	0.52	0.0369

COTTER/MEYERS U OF M

SAMPLE NUMBER: 78 BLM NUMBER: 54-C

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: 67 SAMPLE WEIGHT: 13.996 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 237.364

RT	KI	AREA	UG/PEAK	PCT	UG/G
4.40	1332.37	2624.	0.0089	0.00	0.0060
5.05	1343.87	7064.	0.2258	0.01	0.0161
5.93	1400.65	11470.	0.3666	0.11	0.0262
7.02	1465.48	111200.	3.5538	0.11	0.2539
7.73	1502.79	50310.	1.6078	0.05	0.1149
7.97	1513.64	50760.	1.6222	0.05	0.1159
8.11	1523.43	107200.	3.4259	0.10	0.2448
8.95	1565.83	172500.	5.5128	0.17	0.3939
9.72	1601.54	189000.	6.0401	0.18	0.4316
10.12	1621.56	136200.	4.3527	0.13	0.3110
10.87	1657.10	123900.	4.1194	0.12	0.2943
11.36	1679.01	954000.	30.4882	0.92	2.1783
11.89	1701.96	954800.	30.5138	0.92	2.1801
12.29	1721.23	3584000.	114.5385	3.45	8.1835
13.53	1777.21	466900.	14.9213	0.45	1.0661
14.14	1803.36	1108000.	35.4098	1.07	2.5300
14.57	1823.64	2182000.	69.7330	2.10	4.9823
15.72	1875.09	13240000.	423.1277	12.74	30.2316
16.43	1905.72	1289000.	41.1942	1.24	2.9432
17.17	1940.10	36920000.	1179.8999	35.52	84.3014
17.65	1961.61	227000.	7.2545	0.22	0.5183
18.09	1980.83	2477000.	79.1607	2.38	5.6559
18.71	2008.28	359700.	11.4954	0.35	0.8213
19.09	2026.53	339100.	10.8371	0.33	0.7743
20.15	2075.56	3822000.	122.1446	3.68	8.7270
20.43	2088.69	2456000.	78.4895	2.36	5.6079
20.67	2098.68	3688000.	117.8622	3.55	8.4210
21.23	2126.16	1815000.	58.0043	1.75	4.1443
21.80	2153.58	849200.	27.1390	0.82	1.9390
22.33	2178.44	1652000.	52.7951	1.59	3.7721
23.58	2239.44	1292000.	41.2901	1.24	2.9501
23.97	2258.67	598300.	19.1206	0.58	1.3661
24.53	2285.75	2249000.	71.8742	2.16	5.1353
25.31	2325.08	423400.	13.5311	0.41	0.9668
25.95	2352.73	745000.	23.8089	0.72	1.7011
26.36	2378.32	341500.	10.9138	0.33	0.7798
26.77	2398.58	193500.	6.1839	0.19	0.4418
27.31	2427.52	469600.	15.0076	0.45	1.0723
27.56	2440.83	903200.	28.8647	0.87	2.0623
28.44	2486.71	1119000.	35.7613	1.08	2.5551
29.21	2529.80	27770.	0.8875	0.03	0.0634
29.63	2552.15	55330.	1.7683	0.05	0.1263
30.45	2596.78	53730.	1.7196	0.05	0.1228
30.93	2622.65	51750.	1.6538	0.05	0.1182
31.36	2645.58	102900.	3.2885	0.10	0.2350
31.76	2668.22	70220.	2.2441	0.07	0.1603
32.03	2686.69	35080.	1.1211	0.03	0.0801
33.55	2776.23	179100.	5.7237	0.17	0.4089
34.25	2818.14	245000.	7.8298	0.24	0.5594
35.15	2873.46	130200.	4.1610	0.13	0.2973
35.61	2901.28	38240.	1.2221	0.04	0.0873

36.15	2935.56	49827.	1.5794	0.25	0.1128
36.47	2955.54	14277.	0.4554	0.01	0.0325
37.83	3046.19	431800.	13.7996	0.42	0.9860
38.19	3065.67	210400.	6.7243	0.20	0.4804
39.01	3120.98	523300.	16.7239	0.50	1.1949
39.53	3155.81	571400.	18.2610	0.55	1.3047
39.91	3180.98	699400.	22.3516	0.67	1.5970
40.82	0.0	1053000.	33.6521	1.01	2.4044
41.65	0.0	448800.	14.3429	0.43	1.0248
42.39	0.0	2041000.	65.2209	1.96	4.6603
43.39	0.0	1102000.	35.2180	1.06	2.5163
44.95	0.0	2157000.	68.9340	2.07	4.9252
45.73	0.0	3730000.	119.2044	3.59	8.5169
48.42	0.0	1674000.	53.4982	1.61	3.8223
52.57	0.0	271000.	8.6607	0.26	0.6188
53.35	0.0	302800.	9.6770	0.29	0.6914

COTTRR/MEYERS U OF K

SAMPLE NUMBER: 78 BLM NUMBER: 54-C

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 45 SAMPLE WEIGHT: 13.996 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 227.890

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.23	0.0	1595.	0.1635	0.01	0.0117
2.50	0.0	822.	0.0843	0.00	0.0060
2.86	0.0	0.	0.0	0.0	0.0
3.77	0.0	931.	0.0954	0.00	0.0068
4.87	1400.91	3300.	0.3383	0.01	0.0242
6.11	1501.65	6909.	0.7082	0.02	0.0506
6.39	1524.18	744.	0.0763	0.00	0.0054
6.63	1542.72	919.	0.0942	0.00	0.0067
6.98	1568.59	1320.	0.1353	0.00	0.0097
7.44	1600.79	25541.	2.6180	0.08	0.1871
8.18	1656.83	15024.	1.5400	0.05	0.1100
8.82	1701.58	14897.	1.5270	0.05	0.1091
9.74	1770.62	40087.	4.1090	0.13	0.2936
10.18	1801.58	32539.	3.3353	0.10	0.2383
10.91	1857.09	30485.	3.1248	0.10	0.2233
11.21	1878.83	20602.	2.1117	0.07	0.1509
11.54	1902.43	57367.	5.8802	0.18	0.4201
12.00	1938.96	32635.	3.3452	0.10	0.2390
12.47	1974.86	716539.	73.4468	2.30	5.2476
12.86	2004.15	538158.	55.1624	1.73	3.9412
13.35	2044.01	20160.	2.0664	0.06	0.1476
13.61	2064.57	679600.	69.6605	2.18	4.9771
14.66	2149.79	468683.	48.0410	1.51	3.4324
14.85	2165.40	744404.	76.3030	2.39	5.4517
15.32	2203.25	96686.	9.9105	0.31	0.7081
15.59	2224.97	494649.	50.7026	1.59	3.6226
16.27	2278.04	13396897.	1373.2114	43.05	98.1132
17.42	2371.79	5809222.	595.4580	18.67	42.5443
17.79	2401.31	386985.	39.6668	1.24	2.8341
18.23	2429.82	291474.	29.8767	0.94	2.1346
18.65	2456.40	750610.	76.9392	2.41	5.4971
19.15	2487.27	493846.	50.6203	1.59	3.6167
19.53	2508.93	679326.	69.6324	2.18	4.9751
20.07	2536.81	560963.	57.4999	1.80	4.1083
20.79	2572.83	749031.	76.7773	2.41	5.4856
21.44	0.0	1069700.	109.6466	3.44	7.8340
22.79	0.0	804406.	82.4534	2.59	5.8911
23.64	0.0	990463.	101.5246	3.18	7.2537
25.30	0.0	400529.	41.0551	1.29	2.9333
25.78	0.0	350659.	35.9433	1.13	2.5681
28.18	0.0	37329.	3.8263	0.12	0.2734
29.38	0.0	91360.	9.3646	0.29	0.6691
30.66	0.0	33226.	3.4057	0.11	0.2433
34.32	0.0	66204.	6.7861	0.21	0.4848
40.10	0.0	110576.	11.3343	0.36	0.8098

COTTER/MEYERS U OF M

SAMPLE NUMBER: 79

BLM CODE: 64-A SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: CV 101

NUMBER OF PEAKS: 13 SAMPLE WEIGHT: 8.218 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 195.686

ODD/EVEN: 2.134 ODD/EVEN ≤20: 8.952 ODD/EVEN >20: 0.441

N-ALK/ALL: 0.005 N-ALK/C16: 15.76 N-ALK (≤20/>20): 1.71

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 8.208

RT	RI	AREA	UG/PEAK	PCT	UG/G
8.72	1502.10	10250.	0.1949	0.29	0.0237
10.82	1600.98	1145.	0.0218	0.03	0.0026
12.02	1656.55	2254.	0.0429	0.06	0.0052
12.61	1681.88	2986000.	56.7680	84.15	6.9076
13.90	1738.87	395200.	7.5133	11.14	0.9142
22.41	2113.44	4573.	0.0869	0.13	0.0106
25.02	2234.91	9524.	0.1811	0.27	0.0220
28.45	2399.53	4611.	0.0877	0.13	0.0107
30.43	2499.03	2034.	0.0387	0.06	0.0047
35.63	2780.73	3205.	0.0609	0.09	0.0074
37.89	2910.44	69260.	1.3167	1.95	0.1602
38.63	2955.35	6466.	0.1229	0.18	0.0150
49.18	0.0	53700.	1.0209	1.51	0.1242

COTTER/MEYERS U OF M

SAMPLE NUMBER: 79

BLM CODE: 64-A SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 17 SAMPLE WEIGHT: 8.218 GRAMS

ISP/N-ALK: 0.043 BRANCHED/NORMAL: 14.515

ODD/EVEN: 0.955 ODD/EVEN ≤20: 1.001 ODD/EVEN >20: 0.930

N-ALK/ALL: 0.064 N-ALK/C16: 16.50 N-ALK (≤20/>20): 0.56

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.37

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 2.156

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.03	0.0	0.	0.0	0.0	0.0
7.74	1601.57	1821.	0.0692	0.39	0.0084
9.12	1701.57	3115.	0.1184	0.67	0.0144
10.03	1769.39	1303.	0.0495	0.28	0.0060
10.51	1803.15	3566.	0.1355	0.76	0.0165
11.84	1901.62	2278.	0.0866	0.49	0.0105
12.68	1967.31	18326.	0.6965	3.93	0.0848
13.23	2009.10	63421.	2.4104	13.60	0.2933
14.94	2146.91	867.	0.0330	0.19	0.0040
15.63	2202.57	4358.	0.1656	0.93	0.0202
15.92	2227.18	2841.	0.1080	0.61	0.0131
16.81	2300.00	4647.	0.1766	1.00	0.0215
18.20	2400.60	5623.	0.2137	1.21	0.0260
18.72	2431.27	3985.	0.1515	0.85	0.0184
19.93	2499.45	4639.	0.1763	1.00	0.0215
24.39	0.0	248209.	9.4335	53.24	1.1479
26.48	0.0	97187.	3.6937	20.85	0.4495

COTTER/MEYERS U OF M

SAMPLE NUMBER: 79 BLM NUMBER: 64-A

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 29 SAMPLE WEIGHT: 8.218 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 9.037

PT	PI	AREA	UG/PEAK	PCT	UG/G
9.15	1565.93	6554.	0.3808	0.51	0.0463
11.51	1680.03	12610.	0.7326	0.99	0.0891
12.73	1737.88	8258.	0.4797	0.65	0.0584
14.29	1806.25	22220.	1.2909	1.74	0.1571
15.75	1872.76	10020.	0.5821	0.78	0.0708
16.61	1910.41	99320.	5.7700	7.77	0.7021
18.13	1978.76	36250.	2.1059	2.84	0.2563
18.74	2005.41	101700.	5.9082	7.96	0.7189
20.17	2073.04	5983.	0.3476	0.47	0.0423
20.46	2086.17	5294.	0.3076	0.41	0.0374
21.01	2111.87	81140.	4.7138	6.35	0.5736
22.43	2181.77	34280.	1.9915	2.68	0.2423
23.15	2218.80	8646.	0.5023	0.68	0.0611
23.62	2237.44	63140.	3.6681	4.94	0.4463
24.08	2260.13	79800.	4.6366	6.24	0.5641
24.57	2283.83	342700.	19.9091	26.81	2.4226
25.87	2349.93	58810.	3.4166	4.60	0.4157
26.57	2385.18	31420.	1.8253	2.46	0.2221
28.14	2467.59	6070.	0.3526	0.47	0.0429
28.48	2485.17	8146.	0.4732	0.64	0.0576
28.97	2511.42	13330.	0.8064	1.09	0.0981
30.31	2585.92	8056.	0.4680	0.63	0.0569
30.84	2613.46	7212.	0.4190	0.56	0.0510
32.11	2688.29	2807.	0.1631	0.22	0.0198
32.57	2715.12	1145.	0.0665	0.09	0.0081
34.25	2814.93	10480.	0.6088	0.82	0.0741
38.22	3065.17	4709.	0.2736	0.37	0.0333
38.99	3115.68	5595.	0.3245	0.44	0.0395
45.61	0.0	202100.	11.7410	15.81	1.4287

COTTER/MEYERS U OF M

SAMPLE NUMBER: 79 BLM NUMBER: 64-A

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 19 SAMPLE WEIGHT: 8.218 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 8.166

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.85	0.0	0.	0.0	0.0	0.0
7.43	1600.00	908.	0.1537	0.23	0.0187
12.33	1964.31	1987.	0.3363	0.50	0.0409
12.85	2003.32	9878.	1.6721	2.49	0.2035
13.36	2044.81	1373.	0.2324	0.35	0.0283
14.65	2148.96	12020.	2.0346	3.03	0.2476
15.30	2201.63	3392.	0.5742	0.86	0.0699
15.54	2220.97	30766.	5.2078	7.76	0.6337
15.92	2251.00	18375.	3.1104	4.63	0.3785
16.54	2298.50	4890.	0.8277	1.23	0.1007
16.76	2317.02	6045.	1.0232	1.52	0.1245
17.19	2352.94	52096.	8.8184	13.14	1.0730
18.20	2427.90	33572.	5.6828	8.47	0.6915
18.71	2460.15	12119.	2.0514	3.06	0.2496
20.30	2548.46	3209.	0.5432	0.81	0.0661
22.60	0.0	97058.	16.4291	24.48	1.9991
23.34	0.0	58877.	9.9662	14.85	1.2127
24.11	0.0	18468.	3.1261	4.66	0.3804
25.73	0.0	31444.	5.3226	7.93	0.6477

COTTER/MEYERS U OF M

SAMPLE NUMBER: 80

BLM CODE: II-K-2 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 49 SAMPLE WEIGHT: 0.517 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 7.136

ODD/EVEN: 0.323 ODD/EVEN ≤20: 0.160 ODD/EVEN >20: 1.004

N-ALK/ALL: 0.123 N-ALK/C16: 16.04 N-ALK(≤20/>20): 1.38

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 252.616

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.22	1301.43	1026.	0.0292	0.02	0.0565
6.81	1400.60	4748.	0.1352	0.10	0.2613
8.71	1501.58	24480.	0.6970	0.53	1.3472
10.02	1565.70	111300.	3.1691	2.42	6.1251
10.79	1599.58	35170.	1.0014	0.77	1.9355
11.98	1654.79	44620.	1.2705	0.97	2.4555
12.55	1679.36	2878000.	81.9476	62.70	158.3833
15.32	1798.80	232900.	6.6315	5.07	12.8171
16.78	1864.06	16660.	0.4744	0.36	0.9168
17.26	1884.34	1102.	0.0314	0.02	0.0606
17.61	1898.78	14280.	0.4066	0.31	0.7859
18.25	1928.08	14240.	0.4055	0.31	0.7837
18.77	1951.29	4069.	0.1159	0.09	0.2239
19.22	1970.86	4794.	0.1365	0.10	0.2638
19.55	1984.93	18560.	0.5285	0.40	1.0214
19.87	1998.34	58780.	1.6737	1.28	3.2348
20.64	2034.06	1759.	0.0501	0.04	0.0968
21.39	2067.83	27770.	0.7907	0.60	1.5283
21.80	2085.79	10210.	0.2907	0.22	0.5619
22.35	2110.58	3840.	0.1093	0.08	0.2113
23.79	2177.33	5489.	0.1563	0.12	0.3021
24.01	2187.16	3638.	0.1036	0.08	0.2002
24.27	2198.68	8370.	0.2383	0.18	0.4606
25.31	2248.69	82560.	2.3508	1.80	4.5435
25.82	2272.54	64080.	1.8246	1.40	3.5265
26.72	2315.18	24900.	0.7090	0.54	1.3703
27.89	2372.80	15280.	0.4351	0.33	0.8409
28.40	2397.16	51420.	1.4641	1.12	2.8298
29.99	2477.48	60020.	1.7090	1.31	3.3030
30.60	2508.08	23300.	0.6634	0.51	1.2823
31.31	2545.78	5891.	0.1677	0.13	0.3242
31.79	2570.79	12110.	0.3448	0.26	0.6664
32.29	2596.44	37910.	1.0794	0.83	2.0863
32.63	2615.02	11360.	0.3235	0.25	0.6252
33.89	2683.53	97840.	2.7859	2.13	5.3844
35.03	2747.26	15520.	0.4419	0.34	0.8541
35.92	2796.71	56400.	1.6059	1.23	3.1038
36.24	2815.25	177800.	5.0626	3.87	9.7848
37.50	2887.61	80440.	2.2904	1.75	4.4268
37.84	2907.37	74940.	2.1338	1.63	4.1241
38.42	2942.69	2603.	0.0741	0.06	0.1432

42.91	3223.19	25570.	0.7281	0.56	1.4072
44.02	3295.50	38690.	1.1017	0.84	2.1292
44.56	3328.52	3844.	0.1095	0.08	0.2115
46.15	0.0	31670.	0.9018	0.69	1.7429
47.64	0.0	22630.	0.6444	0.49	1.2454
49.16	0.0	17000.	0.4841	0.37	0.9356
50.33	0.0	26420.	0.7523	0.58	1.4540
52.36	0.0	4329.	0.1233	0.09	0.2382

COTTER/MEYERS U OF M

SAMPLE NUMBER: 80

BLM CODE: II-K-2 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 29 SAMPLE WEIGHT: 0.517 GRAMS

ISP/N-ALK: 0.072 BRANCHED/NORMAL: 1.379

ODD/EVEN: C.286 CDD/EVEN ≤20: 0.691 ODD/EVEN >20: 0.095

N-ALK/ALL: C.420 N-ALK/C16: 9.87 N-ALK(≤20/>20): 0.48

PRIS/PHYT: 1.09 PRIS/C17: 0.41 PHYT/C18: 0.28

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 38.624

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.14	14C2.64	4871.	0.1778	0.89	0.3436
5.52	1434.77	1832.	0.0669	0.33	0.1292
6.41	15C2.46	9109.	0.3325	1.66	0.6426
6.93	1543.37	62C.	0.0226	0.11	0.0437
7.76	16C3.14	23332.	0.8516	4.26	1.6459
8.55	1662.09	8688.	0.3171	1.59	0.6129
9.14	17C3.13	21119.	0.7708	3.86	1.4898
9.86	1757.20	1574.	0.0575	0.29	0.1110
10.05	1770.81	7987.	0.2915	1.46	0.5634
10.52	1803.93	28911.	1.0552	5.28	2.0395
11.19	1854.84	4796.	0.1751	0.88	0.3383
11.86	1903.24	9253.	0.3377	1.69	0.6527
12.33	1940.48	6064.	0.2213	1.11	0.4278
12.72	1970.33	11348.	0.4142	2.07	0.8005
13.22	2008.28	76295.	2.7848	13.93	5.3822
13.73	2049.56	22130.	0.8077	4.04	1.5612
14.41	2102.56	7562.	0.2760	1.38	0.5335
14.98	2150.20	13548.	0.4945	2.47	0.9557
15.26	2172.94	5923.	0.2162	1.08	0.4178
15.66	2205.14	20364.	0.7433	3.72	1.4366
16.20	2250.52	4378.	0.1598	0.80	0.3088
16.82	2300.75	10699.	0.3905	1.95	0.7548
17.58	2356.77	16623.	0.6067	3.04	1.1727
18.17	2398.61	103952.	3.7942	18.99	7.3333
19.97	2501.52	11377.	0.4153	2.08	0.8026
21.23	2563.47	19053.	0.6954	3.48	1.3441
22.53	0.0	7526.	0.2747	1.37	0.5309
26.55	0.0	38462.	1.4039	7.02	2.7133
42.23	0.0	50122.	1.8294	9.15	3.5358

COTTER/MEYERS U OF M

SAMPLE NUMBER: 80 BLM NUMBER: II-K-2

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: 4[illegible] SAMPLE WEIGHT: 0.517 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 51.575

RT	RI	AREA	UG/PEAK	PCT	UG/G
9.03	1560.69	59670.	1.0708	4.01	2.0695
10.86	1647.64	6420.	0.1152	0.43	0.2227
11.15	1662.33	743.	0.0133	0.05	0.0258
11.44	1676.83	69100.	1.2400	4.65	2.3965
12.13	1709.70	8210.	0.1473	0.55	0.2847
14.28	1805.77	18600.	0.3338	1.25	0.6451
14.93	1836.21	36420.	0.6535	2.45	1.2631
16.17	1890.76	2785.	0.0500	0.19	0.0966
16.61	1910.41	49090.	0.8809	3.30	1.7026
18.15	1979.62	9448.	0.1695	0.64	0.3277
18.79	2007.86	43600.	0.7824	2.93	1.5121
20.45	2085.72	83700.	1.5020	5.63	2.9029
20.99	2110.89	56930.	1.0216	3.83	1.9745
22.34	2175.31	5743.	0.1031	0.39	0.1992
22.75	2194.11	4134.	0.0742	0.28	0.1434
23.79	2241.42	57080.	1.0243	3.84	1.9797
24.54	2282.40	16720.	0.3000	1.12	0.5799
25.15	2310.03	24790.	0.4448	1.67	0.8598
26.31	2372.19	15850.	0.2844	1.07	0.5497
27.33	2424.85	4189.	0.0752	0.28	0.1453
28.92	2508.57	28110.	0.5044	1.89	0.9749
32.17	2691.64	888.	0.0159	0.06	0.0308
34.26	2814.93	383700.	6.8854	25.80	13.3076
35.63	2897.02	2282.	0.0409	0.15	0.0791
36.16	2932.12	5193.	0.0932	0.35	0.1801
36.49	2953.71	1534.	0.0275	0.10	0.0532
37.63	3026.54	5833.	0.1047	0.39	0.2023
38.19	3063.21	35830.	0.6430	2.41	1.2427
39.17	3127.89	19520.	0.3503	1.31	0.6770
39.54	3156.17	462.	0.0083	0.03	0.0160
39.90	3176.85	4369.	0.0784	0.29	0.1515
40.23	3198.68	3773.	0.0677	0.25	0.1309
40.63	3226.38	7412.	0.1330	0.50	0.2571
41.03	3297.98	1677.	0.0301	0.11	0.0582
42.07	3325.50	26720.	0.4795	1.80	0.9267
43.12	3398.63	42390.	0.7607	2.85	1.4702
43.43	3424.08	72820.	1.3067	4.90	2.5256
44.85	0.0	25900.	0.4648	1.74	0.8983
45.63	0.0	158900.	2.8514	10.69	5.5110
47.94	0.0	86540.	1.5529	5.82	3.0014

COTTER/MEYERS U OF M

SAMPLE NUMBER: 80 BLM NUMBER: II-K-2

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 20 SAMPLE WEIGHT: 0.517 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 25.843

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.85	0.0	0.	0.0	0.0	0.0
7.42	1599.32	853.	0.0576	0.43	0.1114
8.80	1700.00	1178.	0.0796	0.60	0.1538
10.16	1800.00	943.	0.0637	0.48	0.1231
12.31	1962.79	2112.	0.1426	1.07	0.2757
12.83	2001.66	30866.	2.0847	15.59	4.0293
13.34	2043.21	5945.	0.4015	3.00	0.7761
14.47	2133.98	5973.	0.4034	3.02	0.7797
14.64	2148.14	10499.	0.7091	5.30	1.3705
15.28	2200.00	1031.	0.0696	0.52	0.1346
15.54	2220.97	12263.	0.8283	6.19	1.6008
15.89	2248.66	12549.	0.8476	6.34	1.6382
16.59	2302.57	11927.	0.8056	6.02	1.5570
17.18	2352.12	18239.	1.2319	9.21	2.3809
17.60	2386.37	26121.	1.7643	13.19	3.4098
18.18	2426.62	18647.	1.2594	9.42	2.4342
18.64	2455.77	22316.	1.5073	11.27	2.9131
19.43	2503.69	6664.	0.4501	3.37	0.8699
20.36	2551.47	5848.	0.3950	2.95	0.7634
23.39	0.0	3996.	0.2699	2.02	0.5216

COTTER/MEYERS U OF M

SAMPLE NUMBER: 81

BLM CODE: V-B-1 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 8 SAMPLE WEIGHT: 3.294 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 14.398

ODD/EVEN: 0.799 ODD/EVEN ≤20: 0.0 ODD/EVEN >20: 0.799

N-ALK/ALL: 0.065 N-ALK/C16: 0.0 N-ALK (≤20/>20): 0.0

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 9.336

RT	RI	AREA	UG/PEAK	PCT	UG/G
12.62	1681.87	923400.	28.1272	91.47	8.5394
24.29	2201.01	13600.	0.4143	1.35	0.1258
26.35	2301.04	16810.	0.5120	1.67	0.1555
28.35	2401.61	15070.	0.4590	1.49	0.1394
30.26	2501.11	11020.	0.3357	1.09	0.1019
32.11	2601.16	7762.	0.2364	0.77	0.0718
33.89	2701.19	1297.	0.0395	0.13	0.0120
48.28	0.0	20530.	0.6254	2.03	0.1899

COTTER/MEYERS U OF M

SAMPLE NUMBER: 81

BLM CODE: V-E-1 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 18 SAMPLE WEIGHT: 3.294 GRAMS

ISP/N-ALK: 0.026 BRANCHED/NORMAL: 2.419

ODD/EVEN: 0.642 ODD/EVEN ≤20: 0.923 ODD/EVEN >20: 0.678

N-ALK/ALL: 0.292 N-ALK/C16: 49.16 N-ALK(≤20/>20): 0.25

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.39

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 2.636

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.85	0.0	0.	0.0	0.0	0.0
7.43	1600.80	946.	0.0517	0.59	0.0157
8.79	1700.79	1863.	0.1017	1.17	0.0309
9.70	1768.72	1215.	0.0663	0.76	0.0201
10.16	1800.79	3090.	0.1687	1.94	0.0512
11.50	1900.00	1864.	0.1018	1.17	0.0309
12.34	1965.83	9596.	0.5239	6.03	0.1591
12.88	2006.69	35362.	1.9307	22.24	0.5862
14.05	2100.00	2983.	0.1629	1.88	0.0494
15.27	2200.00	11197.	0.6113	7.04	0.1856
15.57	2223.99	1011.	0.0552	0.64	0.0168
16.43	2290.28	11439.	0.6246	7.19	0.1896
17.74	2399.19	11378.	0.6212	7.15	0.1886
18.21	2429.64	1766.	0.0964	1.11	0.0293
19.33	2498.80	9080.	0.4958	5.71	0.1505
21.30	2599.03	4109.	0.2243	2.58	0.0681
23.47	0.0	18101.	0.9883	11.38	0.3000
25.40	0.0	34026.	1.8578	21.40	0.5640

COTTER/MEYERS U OF M

SAMPLE NUMBER: 81 BLM NUMBER: V-B-1

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 9 SAMPLE WEIGHT: 3.294 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 4.793

RT	RI	AREA	NG/PEAK	PCT	NG/G
10.44	1[illegible].02	1[illegible].	.0061	3.21	0.1537
11.21	1722.40	[illegible].	.2641	1.67	0.0802
13.23	1815.08	1[illegible]37.	0.0460	0.29	0.0140
15.51	1918.75	1330.	0.0352	0.22	0.0107
17.01	1986.71	24390.	0.6463	4.09	0.1962
17.61	2014.19	8116.	0.2151	1.36	0.0653
19.2[illegible]	2088.06	174200.	4.6163	29.24	1.4015
32.97	2915.66	9176.	0.2432	1.54	0.0738
44.15	0.0	347700.	9.2140	58.37	2.7974

COTTER/MEYERS U OF M

SAMPLE NUMBER: 81 BLM NUMBER: V-E-1

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 14 SAMPLE WEIGHT: 3.294 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 3.283

RT	RI	AREA	UG/PEAK	PCT	UG/G
11.38	1899.30	1283.	0.0893	0.83	0.0271
12.20	1963.56	2227.	0.1551	1.43	0.0471
12.72	2002.49	19659.	1.3689	12.66	0.4156
14.52	2148.15	7870.	0.5480	5.07	0.1664
15.07	2192.84	11516.	0.8019	7.42	0.2435
15.42	2222.87	2281.	0.1588	1.47	0.0482
15.77	2253.06	3689.	0.2569	2.38	0.0780
16.46	2310.43	72135.	5.0231	46.45	1.5250
17.03	2355.21	7632.	0.5315	4.91	0.1613
18.01	2425.97	2767.	0.1927	1.78	0.0585
18.94	2485.68	2269.	0.1580	1.46	0.0480
23.08	0.0	1604.	0.1117	1.03	0.0339
24.96	0.0	11907.	0.8291	7.67	0.2517
48.25	0.0	8457.	0.5889	5.45	0.1788

COTTER/MEYERS U OF M

SAMPLE NUMBER: 82

BLM CODE: 2-I SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 18 SAMPLE WEIGHT: 2.040 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 173.705

ODD/EVEN: 0.0 ODD/EVEN ≤20: 0.0 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.006 N-ALK/C16: 0.0 N-ALK(≤20/>20): 0.0

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 12.817

RT	RI	AREA	UG/PEAK	PCT	UG/G
10.22	1574.29	10430.	0.2288	0.88	0.1122
12.62	1681.87	838800.	18.4020	70.40	9.0228
17.47	1892.62	2512.	0.0551	0.21	0.0270
17.97	1914.79	39410.	0.8646	3.31	0.4239
20.23	2014.27	5187.	0.1138	0.44	0.0558
21.87	2088.71	15150.	0.3324	1.27	0.1630
22.43	2114.59	44990.	0.9870	3.78	0.4839
23.85	2181.09	4810.	0.1055	0.40	0.0517
25.31	2251.50	44890.	0.9848	3.77	0.4829
26.69	2318.64	21710.	0.4763	1.82	0.2335
27.83	2376.05	30820.	0.6761	2.59	0.3315
30.49	2513.86	8316.	0.1824	0.70	0.0895
35.28	2782.34	1658.	0.0364	0.14	0.0178
35.87	2817.09	55920.	1.2268	4.69	0.6015
37.43	2910.70	21300.	0.4673	1.79	0.2291
40.47	3101.92	6820.	0.1496	0.57	0.0734
40.97	3133.77	25630.	0.5623	2.15	0.2757
42.34	3220.96	13140.	0.2883	1.10	0.1413

COTTER/MEYERS U OF M

SAMPLE NUMBER: 82

BLM CODE: 2-I SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 19 SAMPLE WEIGHT: 2.040 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 34.020

ODD/EVEN: 2.387 ODD/EVEN ≤20: 0.991 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.029 N-ALK/C16: 0.0 N-ALK(≤20/>20): 0.19

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 5.732

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.85	0.0	C.	0.0	0.0	0.0
8.80	1701.57	662.	0.0255	0.22	0.0125
10.17	1801.58	1061.	0.0409	0.35	0.0201
11.50	1900.00	1441.	0.0555	0.48	0.0272
12.37	1968.09	4445.	0.1713	1.47	0.0840
12.87	2005.85	104625.	4.0331	34.50	1.9775
14.33	2123.70	1212.	0.0467	0.40	0.0229
14.81	2163.26	1395.	0.0538	0.46	0.0264
15.57	2223.99	34792.	1.3412	11.47	0.6576
15.88	2248.30	12756.	0.4917	4.21	0.2411
16.42	2289.53	1170.	0.0451	0.39	0.0221
17.22	2356.32	11897.	0.4586	3.92	0.2249
17.67	2393.49	20524.	0.7912	6.77	0.3879
18.22	2430.28	34682.	1.3369	11.44	0.6555
18.62	2455.44	17609.	0.6788	5.81	0.3328
19.43	2504.26	5496.	0.2119	1.81	0.1039
23.50	0.0	9467.	0.3649	3.12	0.1789
25.44	0.0	23431.	0.9032	7.73	0.4429
27.83	0.0	16608.	0.6402	5.48	0.3139

COTTER/MEYERS U OF M

SAMPLE NUMBER: 82 BLM NUMBER: 2-I

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: 48 SAMPLE WEIGHT: 2.040 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 50.226

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.89	1305.28	3056.	0.0904	0.09	0.0443
5.22	1405.58	11366.	0.3509	0.34	0.1721
6.09	1461.24	1541.	0.0456	0.04	0.0224
6.25	1471.61	6321.	0.1870	0.18	0.0917
6.86	1504.77	28410.	0.8406	0.82	0.4122
7.86	1561.19	6528.	0.1932	0.19	0.0947
8.05	1569.83	94040.	2.7826	2.72	1.3643
8.75	1604.25	60000.	1.7754	1.73	0.8705
9.78	1655.78	72860.	2.1411	2.09	1.0498
10.62	1684.56	2078.	0.0614	0.06	0.0301
10.93	1703.54	60730.	1.7970	1.75	0.8811
12.99	1803.44	60450.	1.7887	1.75	0.8770
14.36	1866.76	22550.	0.6672	0.65	0.3272
15.17	1902.43	12290.	0.3637	0.36	0.1783
15.79	1931.02	4230.	0.1252	0.12	0.0614
16.12	1947.14	7656.	0.2265	0.22	0.1111
16.51	1964.74	24270.	0.7181	0.70	0.3521
16.86	1980.18	44160.	1.3067	1.28	0.6407
17.13	1991.66	68000.	2.0357	1.99	0.9982
18.77	2068.71	24580.	0.7273	0.71	0.3566
20.93	2170.59	8546.	0.2529	0.25	0.1240
21.37	2190.91	2804.	0.0830	0.08	0.0407
22.37	2240.68	31510.	0.9324	0.91	0.4572
23.03	2273.18	23220.	0.6871	0.67	0.3369
23.39	2290.49	830.	0.0246	0.02	0.0120
23.72	2306.69	13290.	0.3929	0.38	0.1927
25.07	2370.24	14880.	0.4403	0.43	0.2159
25.37	2391.19	12300.	0.3639	0.36	0.1784
27.61	2477.47	20730.	0.6134	0.60	0.3008
28.74	2571.92	4270.	0.1263	0.12	0.0619
29.13	2593.03	9276.	0.2745	0.27	0.1346
30.73	2684.39	23060.	0.6823	0.67	0.3346
32.27	2774.20	7592.	0.2246	0.22	0.1101
32.57	2791.44	695.	0.0206	0.02	0.0101
32.98	2816.28	25060.	0.7415	0.72	0.3636
34.21	2891.66	37180.	1.1001	1.07	0.5394
35.57	2977.61	980.	0.0290	0.03	0.0142
36.27	3022.73	4383.	0.1297	0.13	0.0636
36.83	3059.71	1784.	0.0528	0.05	0.0259
37.39	3096.13	38030.	1.1271	1.10	0.5526
38.17	3148.91	2102.	0.0622	0.06	0.0305
38.89	3197.77	11020.	0.3261	0.32	0.1599
39.31	0.0	10270.	0.3039	0.30	0.1490
40.36	0.0	17790.	0.5264	0.51	0.2581
41.74	0.0	37570.	1.1117	1.09	0.5451
42.17	0.0	123300.	3.6484	3.56	1.7889
43.23	0.0	280500.	8.2998	8.10	4.0695
44.17	0.0	2083000.	61.6346	60.17	30.2204

COTTER/YEYETS U OF I

SAMPLE NUMBER: 82 BLM NUMBER: 2-I

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 30 SAMPLE WEIGHT: 2.040 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 13.163

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.69	0.0	1061.	0.1039	0.39	0.0509
4.78	1401.81	3585.	0.3511	1.31	0.1721
6.02	1501.68	7076.	0.6929	2.58	0.3397
6.54	1543.64	530.	0.0519	0.19	0.0254
7.34	1602.38	16390.	1.6049	5.98	0.7869
8.14	1662.61	5645.	0.5528	2.06	0.2710
8.71	1702.37	14140.	1.3846	5.16	0.6789
9.62	1770.64	7539.	0.7382	2.75	0.3620
10.09	1803.94	19895.	1.9482	7.26	0.9552
10.70	1850.46	3831.	0.3751	1.40	0.1839
11.16	1883.83	2305.	0.2257	0.84	0.1107
11.43	1903.24	6962.	0.6817	2.54	0.3343
11.88	1938.97	1398.	0.1369	0.51	0.0671
12.31	1971.87	3556.	0.3482	1.30	0.1707
12.78	2007.46	20977.	2.0541	7.65	1.0072
13.33	2051.98	10840.	1.0615	3.95	0.5205
13.82	2090.11	7836.	0.7673	2.86	0.3762
14.53	2148.97	6227.	0.6098	2.27	0.2990
14.83	2173.54	4738.	0.4640	1.73	0.2275
15.28	2210.61	8022.	0.7855	2.93	0.3852
15.77	2253.06	11284.	1.1050	4.12	0.5418
16.34	2300.80	21847.	2.1393	7.97	1.0489
17.03	2355.21	5911.	0.5788	2.16	0.2838
17.51	2391.77	34773.	3.4050	12.68	1.6695
18.44	2453.95	8291.	0.8119	3.02	0.3981
19.19	2501.08	12232.	1.1978	4.46	0.5873
19.81	2533.90	1552.	0.1520	0.57	0.0745
20.39	2563.69	11133.	1.0902	4.06	0.5345
21.53	0.0	10321.	1.0107	3.76	0.4955
48.20	0.0	4267.	0.4178	1.56	0.2049

COTTER/MEYERS U OF M

SAMPLE NUMBER: 83

BLM CODE: I-E-1 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 12 SAMPLE WEIGHT: 5.231 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 6.702

ODD/EVEN: 1.141 ODD/EVEN ≤20: 1.141 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.130 N-ALK/C16: 4.56 N-ALK (≤20/>20): 0.0

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 0.721

RT	RI	AREA	UG/PEAK	PCT	UG/G
10.83	1600.98	5031.	0.1074	2.85	0.0205
12.66	1683.55	45400.	0.9696	25.70	0.1854
13.05	1699.59	10270.	0.2193	5.81	0.0419
15.38	1800.94	5681.	0.1213	3.22	0.0232
17.69	1901.86	1952.	0.0417	1.11	0.0080
21.47	2071.08	1519.	0.0324	0.86	0.0062
21.79	2085.21	5676.	0.1212	3.21	0.0232
35.89	2818.30	42660.	0.9111	24.15	0.1742
36.75	2869.95	10410.	0.2223	5.89	0.0425
37.46	2912.58	44810.	0.9570	25.37	0.1830
38.19	2957.93	1869.	0.0399	1.06	0.0076
43.10	3271.69	1369.	0.0292	0.77	0.0056

COTTER/MEYERS U OF M

SAMPLE NUMBER: 83

BLM CODE: I-E-1 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 16 SAMPLE WEIGHT: 5.231 GRAMS

ISE/N-ALK: 0.157 BRANCHED/NORMAL: 1.035

ODD/EVEN: 0.846 ODD/EVEN ≤20: 0.749 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.491 N-ALK/C16: 9.89 N-ALK (≤20/>20): 1.10

PRIS/PHYT: 1.06 PRIS/C17: 0.39 PHYT/C18: 0.31

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 0.432

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.86	0.0	0.	0.0	0.0	0.0
6.12	1501.67	1373.	0.0659	2.92	0.0126
7.45	1602.40	2340.	0.1123	4.97	0.0215
8.23	1661.56	1865.	0.0895	3.96	0.0171
8.82	1703.14	4826.	0.2315	10.25	0.0443
9.73	1770.85	1761.	0.0845	3.74	0.0162
10.19	1803.15	5660.	0.2716	12.02	0.0519
11.53	1902.43	2786.	0.1337	5.92	0.0256
12.89	2007.52	10082.	0.4837	21.41	0.0925
13.56	2061.90	3951.	0.1896	8.39	0.0362
14.42	2131.22	3117.	0.1495	6.62	0.0286
14.67	2151.86	795.	0.0381	1.69	0.0073
15.32	2204.03	2413.	0.1158	5.12	0.0221
16.47	2293.28	1577.	0.0757	3.35	0.0145
17.41	2372.13	800.	0.0384	1.70	0.0073
17.71	2396.75	3749.	0.1799	7.96	0.0344

COTTER/MEYERS U OF M

SAMPLE NUMBER: 83 RUN NUMBER: I-S-1

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 62 SAMPLE WEIGHT: 5.231 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 47.574

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.29	0.0	0.	0.0	0.0	0.0
3.67	1303.53	13110.	0.2743	0.11	0.0524
4.01	1315.61	7414.	0.1551	0.06	0.0297
4.52	1356.31	721.	0.0151	0.01	0.0029
4.94	1386.51	15060.	0.3150	0.13	0.0602
5.19	1403.50	34540.	0.7226	0.29	0.1381
6.21	1468.29	32380.	0.6774	0.27	0.1295
6.83	1502.99	66220.	1.3853	0.56	0.2648
7.95	1564.74	394400.	8.2506	3.32	1.5774
8.72	1602.66	134800.	2.8199	1.13	0.5391
9.98	1665.16	77020.	1.6112	0.65	0.3080
10.59	1692.63	1417000.	29.6429	11.91	5.6672
10.83	1703.54	768000.	16.0662	6.46	3.0716
13.01	1804.41	269610.	5.6399	2.27	1.0782
13.73	1838.67	44510.	0.9311	0.37	0.1780
14.36	1867.20	55973.	1.1709	0.47	0.2239
15.25	1906.30	410900.	8.5958	3.45	1.6434
15.69	1927.24	50160.	1.0493	0.42	0.2006
16.13	1947.60	5635.	0.1179	0.05	0.0225
16.85	1980.18	74160.	1.5514	0.62	0.2966
17.13	1991.88	66340.	1.3878	0.56	0.2653
17.45	2006.39	1178000.	24.6431	9.90	4.7113
18.83	2072.34	167500.	3.5040	1.41	0.6699
19.17	2086.73	93480.	1.9556	0.79	0.3739
19.59	2110.97	221500.	4.6337	1.86	0.8859
20.49	2149.85	2839.	0.0594	0.02	0.0114
21.01	2174.32	61610.	1.2886	0.52	0.2464
21.34	2189.53	49270.	1.0307	0.41	0.1971
21.81	2212.36	129300.	2.7049	1.09	0.5171
22.35	2239.68	116200.	2.4308	0.98	0.4647
23.25	2283.78	461700.	9.6585	3.88	1.8465
23.79	2310.58	80300.	1.6798	0.68	0.3212
24.55	2349.98	24880.	0.5205	0.21	0.0995
25.28	2386.69	131400.	2.7488	1.10	0.5255
26.27	2438.75	10080.	0.2109	0.08	0.0403
27.04	2479.02	110200.	2.3053	0.93	0.4407
27.63	2510.24	64000.	1.3388	0.54	0.2560
28.33	2549.42	7328.	0.1533	0.06	0.0293
28.78	2574.10	5020.	0.1050	0.04	0.0201
29.24	2598.93	36990.	0.7738	0.31	0.1479
29.56	2617.56	19160.	0.4008	0.16	0.0766
30.73	2684.39	119300.	2.4957	1.00	0.4771
31.85	2749.79	14670.	0.3069	0.12	0.0587
32.31	2776.51	4513.	0.0944	0.04	0.0180
32.72	2801.03	15710.	0.3286	0.13	0.0628
33.03	2819.40	20690.	0.4328	0.17	0.0827
34.18	2889.79	104500.	2.1861	0.88	0.4179
35.15	2951.19	117700.	2.4622	0.99	0.4707
36.21	3015.37	155000.	3.2425	1.30	0.6199
36.33	3026.72	172100.	3.6002	1.45	0.6883
38.91	2867.41	105500.	2.2070	0.89	0.4219

37.38	3095.48	72460.	1.5158	0.61	0.2898
38.21	3151.49	180600.	3.7781	1.52	0.7223
38.75	3187.46	302300.	6.3240	2.54	1.2090
39.37	0.0	388900.	8.1356	3.27	1.5554
40.38	0.0	352500.	7.3741	2.96	1.4098
40.84	0.0	446800.	9.3468	3.76	1.7870
41.81	0.0	365100.	7.6377	3.07	1.4602
42.20	0.0	578400.	12.0998	4.86	2.3133
43.85	0.0	657800.	13.7608	5.53	2.6308
44.86	0.0	277000.	5.7947	2.33	1.1078
45.32	0.0	534900.	11.1898	4.50	2.1393

COTTER/MEYERS U OF M

SAMPLE NUMBER: 83 BLM NUMBER: I-E-1

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 44 SAMPLE WEIGHT: 5.231 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 41.933

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.12	0.0	0.	0.0	0.0	0.0
3.74	0.0	2700.	0.2546	0.12	0.0487
3.93	0.0	1488.	0.1403	0.06	0.0268
4.27	0.0	555.	0.0523	0.02	0.0100
4.83	1406.31	6784.	0.6397	0.29	0.1223
5.18	1436.52	2560.	0.2414	0.11	0.0462
6.08	1506.71	12941.	1.2203	0.56	0.2333
6.36	1529.51	1584.	0.1494	0.07	0.0286
6.74	1558.89	715.	0.0674	0.03	0.0129
6.94	1573.70	697.	0.0657	0.03	0.0126
7.40	1607.12	28714.	2.7076	1.23	0.5176
8.19	1666.17	10056.	0.9482	0.43	0.1813
8.77	1707.09	29622.	2.7932	1.27	0.5340
9.14	1735.48	7712.	0.7272	0.33	0.1390
9.48	1760.57	6766.	0.6380	0.29	0.1220
9.69	1775.62	9729.	0.9174	0.42	0.1754
10.15	1808.64	35855.	3.3809	1.54	0.6464
10.83	1860.04	9616.	0.9067	0.41	0.1734
11.49	1908.09	12931.	1.2193	0.56	0.2331
11.95	1944.41	15561.	1.4673	0.67	0.2805
12.28	1969.61	31052.	2.9280	1.33	0.5598
12.81	2009.94	476956.	44.9741	20.50	8.5983
13.32	2051.18	68094.	6.4209	2.93	1.2276
14.00	2104.30	29198.	2.7532	1.26	0.5264
14.62	2156.40	113265.	10.6802	4.87	2.0419
15.29	2211.49	49327.	4.6512	2.12	0.8892
15.50	2229.83	25357.	2.3910	1.09	0.4571
15.87	2261.57	165540.	15.6094	7.12	2.9843
16.51	2314.42	38712.	3.6503	1.66	0.6979
16.72	2331.04	24738.	2.3326	1.06	0.4460
17.16	2365.21	406042.	38.2874	17.46	7.3199
17.58	2397.01	164975.	15.5562	7.09	2.9741
17.92	2420.02	16535.	1.5592	0.71	0.2981
18.17	2436.46	67653.	6.3793	2.91	1.2196
18.70	2470.56	73246.	6.9067	3.15	1.3204
19.29	2506.44	12320.	1.1617	0.53	0.2221
19.89	2538.06	5773.	0.5444	0.25	0.1041
20.55	2571.76	43386.	4.0910	1.87	0.7821
21.74	0.0	21186.	1.9977	0.91	0.3819
22.61	0.0	109132.	10.2905	4.69	1.9674
23.34	0.0	65092.	6.1378	2.80	1.1734
23.92	0.0	81983.	7.7305	3.52	1.4779
25.32	0.0	28646.	2.7011	1.23	0.5164
29.81	0.0	11292.	1.0648	0.49	0.2036

COTTER/MEYERS U OF M

SAMPLE NUMBER: 84

BLM CODE: II-Q-1 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 50 SAMPLE WEIGHT: 2.941 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 2.877

ODD/EVEN: 1.102 ODD/EVEN ≤20: 1.393 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.258 N-ALK/C16: 8.03 N-ALK (≤20/>20): 2.31

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 15.959

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.26	1302.13	590.	0.0198	0.04	0.0067
6.87	1401.78	8252.	0.2768	0.59	0.0941
8.77	1501.05	35090.	1.1769	2.51	0.4002
10.16	1568.86	30900.	1.0363	2.21	0.3524
10.87	1600.00	44930.	1.5069	3.21	0.5124
12.08	1656.10	28050.	0.9408	2.00	0.3199
12.63	1679.77	222100.	7.4489	15.87	2.5328
13.12	1700.00	126700.	4.2493	9.05	1.4449
15.42	1800.47	78300.	2.6261	5.60	0.8929
16.88	1865.50	17630.	0.5913	1.26	0.2010
17.74	1901.41	27200.	0.9123	1.94	0.3102
18.88	1953.26	2959.	0.0992	0.21	0.0337
19.41	1976.32	2063.	0.0692	0.15	0.0235
19.67	1987.40	8496.	0.2849	0.61	0.0969
20.00	2001.44	4576.	0.1535	0.33	0.0522
20.69	2033.89	1415.	0.0475	0.10	0.0161
10.99	1605.83	7560.	0.2536	0.54	0.0862
21.52	2071.53	49750.	1.6685	3.56	0.5673
21.85	2086.09	71820.	2.4087	5.13	0.8190
22.33	2107.80	47090.	1.5793	3.36	0.5370
23.99	2185.62	15470.	0.5188	1.11	0.1764
25.21	2244.69	17820.	0.5977	1.27	0.2032
25.81	2273.61	20430.	0.6852	1.46	0.2330
26.70	2317.10	6022.	0.2020	0.43	0.0687
27.74	2369.62	3449.	0.1157	0.25	0.0393
28.16	2390.27	2459.	0.0825	0.18	0.0280
29.87	2479.19	22050.	0.7395	1.58	0.2515
31.16	2548.31	2075.	0.0696	0.15	0.0237
31.61	2572.48	7412.	0.2486	0.53	0.0845
31.98	2592.11	2577.	0.0864	0.18	0.0294
33.66	2686.75	19490.	0.6537	1.39	0.2223
34.75	2750.04	2065.	0.0693	0.15	0.0235
35.25	2778.90	5947.	0.1995	0.42	0.0678
35.99	2822.55	8690.	0.2915	0.62	0.0991
37.13	2890.62	42080.	1.4113	3.01	0.4799
37.46	2910.69	80920.	2.7139	5.78	0.9228
37.79	2931.32	65300.	2.1901	4.67	0.7447
38.19	2956.08	77640.	2.6039	5.55	0.8854
39.25	3022.13	7062.	0.2368	0.50	0.0805
40.48	3100.65	1607.	0.0539	0.11	0.0183
40.47	3100.00	33710.	1.1306	2.41	0.3844

41.03	3136.56	36850.	1.2359	2.63	0.4202
41.69	3179.02	1627.	0.0546	0.12	0.0186
42.41	3226.00	10910.	0.3659	0.78	0.1244
43.20	3277.94	14810.	0.4967	1.06	0.1689
43.47	3295.47	33640.	1.1282	2.40	0.3836
43.99	3329.39	2016.	0.0676	0.14	0.0230
45.47	3422.67	9526.	0.3195	0.68	0.1086
46.18	3464.54	473.	0.0159	0.03	0.0054
46.93	3512.74	29840.	1.0008	2.13	0.3403

COTTER/MEYERS U OF M

SAMPLE NUMBER: 84

BLM CODE: II-Q-1 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 33 SAMPLE WEIGHT: 2.941 GRAMS

ISP/N-ALK: 0.107 BRANCHED/NORMAL: 1.564

ODD/EVEN: 0.307 ODD/EVEN ≤20: 0.336 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.390 N-ALK/C16: 7.85 N-ALK (≤20/>20): 3.04

PRIS/PHYT: 1.33 PRIS/C17: 0.46 PHYT/C18: 0.31

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 11.424

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.87	0.0	0.	0.0	0.0	0.0
3.77	0.0	566.	0.0533	0.16	0.0181
4.87	0.0	3132.	0.2951	0.88	0.1003
6.11	1498.55	6919.	0.6519	1.94	0.2217
6.79	1552.08	508.	0.0479	0.14	0.0163
6.98	1566.13	715.	0.0674	0.20	0.0229
7.43	1597.95	17712.	1.6689	4.97	0.5675
8.22	1657.93	8481.	0.7991	2.38	0.2717
8.80	1698.64	18310.	1.7253	5.13	0.5866
9.51	1752.17	2311.	0.2178	0.65	0.0740
9.71	1766.58	6354.	0.5987	1.78	0.2036
10.17	1798.64	20566.	1.9378	5.77	0.6589
10.85	1850.44	6880.	0.6483	1.93	0.2204
11.26	1880.26	1947.	0.1835	0.55	0.0624
11.51	1897.91	7947.	0.7488	2.23	0.2546
11.97	1934.27	2897.	0.2730	0.81	0.0928
12.38	1965.82	6067.	0.5717	1.70	0.1944
12.87	2002.49	60410.	5.6922	16.94	1.9354
13.20	2029.54	22850.	2.1530	6.41	0.7321
13.55	2057.50	22823.	2.1505	6.40	0.7312
13.95	2088.57	8506.	0.8015	2.39	0.2725
14.43	2128.10	2424.	0.2284	0.68	0.0777
14.65	2146.48	2489.	0.2345	0.70	0.0797
15.37	2205.14	10052.	0.9472	2.82	0.3221
15.90	2249.71	12385.	1.1670	3.47	0.3968
16.43	2292.82	15353.	1.4466	4.31	0.4919
17.16	2350.93	17671.	1.6651	4.96	0.5662
17.69	2391.69	30679.	2.8907	8.60	0.9829
18.64	2453.57	12178.	1.1475	3.42	0.3902
19.34	2496.40	7222.	0.6805	2.03	0.2314
19.92	2526.96	4586.	0.4321	1.29	0.1469
20.54	2558.19	10294.	0.9700	2.89	0.3298
21.71	0.0	5352.	0.5043	1.50	0.1715

COTTER/MEYERS U OF M

SAMPLE NUMBER: 84 BLA NUMBER: II-0-1

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 66 SAMPLE WEIGHT: 2.941 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 213.164

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.94	0.0	51700.	1.0818	0.17	0.3678
4.53	1303.13	1844.	0.0385	0.01	0.0131
5.74	1386.72	1049.	0.0219	0.00	0.0075
5.99	1401.94	9393.	0.1962	0.03	0.0667
6.27	1419.60	1730.	0.0361	0.01	0.0123
7.39	1467.10	15380.	0.3213	0.05	0.1092
7.55	1491.39	22460.	0.4692	0.07	0.1595
7.77	1502.79	52250.	1.0914	0.17	0.3711
8.29	1530.78	1022.	0.0213	0.00	0.0073
8.94	1563.41	520230.	10.8662	1.73	3.6947
9.54	1591.48	14360.	0.3000	0.05	0.1020
9.76	1601.54	47293.	1.0004	0.16	0.3402
10.85	1654.34	355000.	7.4154	1.18	2.5214
11.13	1667.05	91860.	1.9186	0.31	0.6524
11.39	1678.57	1532000.	32.0012	5.10	10.8811
11.93	1701.96	1399000.	29.2230	4.66	9.9364
12.77	1741.71	765000.	15.9797	2.55	5.4334
13.29	1765.03	241900.	5.0529	0.81	1.7181
13.63	1779.78	374700.	7.8269	1.25	2.6613
14.17	1802.88	420400.	8.7815	1.40	2.9859
14.87	1835.61	365200.	7.6285	1.22	2.5938
15.59	1867.70	292900.	6.1182	0.98	2.0803
16.07	1888.28	522700.	10.9184	1.74	3.7125
16.37	1910.50	543200.	11.3466	1.81	3.8581
16.89	1925.52	249100.	5.2033	0.83	1.7692
17.58	1956.97	444800.	9.2912	1.48	3.1592
18.09	1979.00	808000.	16.8779	2.69	5.7388
18.76	2009.25	452900.	9.4604	1.51	3.2167
19.51	2044.88	454600.	9.4959	1.51	3.2288
19.89	2062.41	260600.	5.4435	0.87	1.8509
20.41	2085.86	820000.	17.1286	2.73	5.8241
20.96	2111.44	563400.	11.7686	1.88	4.0016
21.90	2156.90	602500.	12.5853	2.01	4.2793
22.35	2177.98	739000.	15.4366	2.46	5.2488
22.94	2208.16	653400.	13.6486	2.18	4.6408
23.67	2242.22	2342000.	48.9209	7.80	16.6341
24.58	2286.29	805600.	16.8278	2.68	5.7218
24.93	2306.35	1512000.	31.5834	5.04	10.7390
25.78	2347.37	49220.	1.0281	0.16	0.3496
26.24	2370.69	252900.	5.2827	0.84	1.7962
27.29	2424.84	503000.	10.5069	1.68	3.5726
28.47	2486.72	206400.	4.3114	0.69	1.4660
28.87	2507.96	112700.	2.3541	0.38	0.8005
29.64	2551.74	1437.	0.0300	0.00	0.0102
30.06	2574.17	72900.	1.5230	0.24	0.5182
30.46	2595.71	278400.	5.8154	0.93	1.9773
32.15	2692.20	13140.	0.2745	0.04	0.0933
33.98	2796.86	172400.	3.6012	0.57	1.2245
34.27	2816.99	198300.	3.9333	0.63	1.3374
34.95	2853.55	2431.	0.0508	0.01	0.0173
35.25	2877.57	8718.	0.1821	0.03	0.0619

35.63	2925.20	1140000.	2.3813	0.38	0.8097
36.47	2954.00	52770.	1.1023	0.18	0.3748
37.54	3025.37	476100.	9.9450	1.59	3.3815
38.23	3067.55	676600.	14.1332	2.25	4.8056
38.94	3114.42	488500.	10.0996	1.61	3.4341
39.42	3147.09	415500.	8.6792	1.38	2.9511
39.89	3178.69	1114000.	23.2698	3.71	7.9122
40.56	0.0	330100.	6.8953	1.10	2.3445
41.31	0.0	840400.	17.5547	2.80	5.9690
42.19	0.0	324700.	6.7825	1.08	2.3062
42.53	0.0	484000.	10.1100	1.61	3.4376
43.43	0.0	462100.	9.6526	1.54	3.2821
43.77	0.0	533100.	11.1357	1.78	3.7864
45.65	0.0	3331000.	69.5797	11.10	23.6535
46.33	0.0	161000.	3.3756	0.54	1.1478

COTTEN/MEYERS U OF M

SAMPLE NUMBER: 84 BLM NUMBER: II-Q-1

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 42 SAMPLE WEIGHT: 2.941 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 63.612

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.71	0.0	595.	0.0488	0.03	0.0166
4.06	0.0	2207.	0.1808	0.10	0.0615
4.80	1401.81	2115.	0.1733	0.09	0.0589
5.16	1433.17	922.	0.0756	0.04	0.0257
5.86	1488.32	2653.	0.2174	0.12	0.0739
6.07	1504.17	12692.	1.0400	0.56	0.3536
7.37	1602.38	8469.	0.6940	0.37	0.2360
8.16	1661.88	4141.	0.3393	0.18	0.1154
8.74	1702.35	8320.	0.6818	0.36	0.2318
9.65	1770.16	3359.	0.2752	0.15	0.0936
10.10	1801.59	6103.	0.5001	0.27	0.1700
10.73	1850.07	2977.	0.2439	0.13	0.0829
11.44	1901.61	4200.	0.3442	0.18	0.1170
11.72	1923.88	3549.	0.2908	0.16	0.0989
12.23	1963.10	41380.	3.3908	1.81	1.1529
12.77	2003.35	548384.	44.9359	24.02	15.2791
13.41	2055.56	42662.	3.4958	1.87	1.1887
13.96	2098.47	8730.	0.7154	0.38	0.2432
14.40	2135.66	27856.	2.2826	1.22	0.7761
14.71	2161.32	44016.	3.6068	1.93	1.2264
15.10	2192.84	27903.	2.2864	1.22	0.7774
15.46	2223.74	56980.	4.6691	2.50	1.5876
15.86	2258.17	127525.	10.4497	5.59	3.5531
16.24	2290.08	45935.	3.7640	2.01	1.2798
16.55	2314.99	58835.	4.8211	2.58	1.6393
17.17	2362.74	126151.	10.3371	5.53	3.5148
17.50	2387.45	198758.	16.2867	8.71	5.5378
17.92	2416.60	56875.	4.6605	2.49	1.5847
18.06	2425.81	58739.	4.8132	2.57	1.6366
18.56	2458.08	102166.	8.3717	4.47	2.8466
19.15	2495.07	66263.	5.4297	2.90	1.8462
19.79	2529.29	16401.	1.3439	0.72	0.4570
20.25	2552.74	5750.	0.4712	0.25	0.1602
21.33	0.0	34527.	2.8292	1.51	0.9620
22.68	0.0	30904.	2.5323	1.35	0.8610
23.18	0.0	42997.	3.5233	1.88	1.1980
25.11	0.0	210301.	17.2326	9.21	5.8594
27.81	0.0	83901.	6.8750	3.67	2.3377
28.81	0.0	38956.	3.1921	1.71	1.0854
29.54	0.0	20209.	1.6560	0.89	0.5631
30.45	0.0	20052.	1.6431	0.88	0.5587
39.47	0.0	77657.	6.3634	3.40	2.1637

COTTER/MEYERS U OF M

SAMPLE NUMBER: 85

BLM CODE: II-O-I SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 48 SAMPLE WEIGHT: 5.991 GRAMS

ISP/N-ALK: 0.014 BRANCHED/NORMAL: 2.878

ODD/EVEN: 1.909 ODD/EVEN ≤20: 2.491 ODD/EVEN >20: 1.721

N-ALK/ALL: C.258 N-ALK/C16: 182.64 N-ALK (≤20/>20): 0.50

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.30

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 5.522

RT	RI	AREA	UG/PEAK	PCT	UG/G
8.79	15C2.10	6146.	0.0883	0.27	0.0147
10.7C	1592.73	2980.	0.0428	0.13	0.0071
10.89	1600.98	3252.	0.0467	0.14	0.0078
11.73	1640.47	1485.	0.0213	0.06	0.0036
12.12	1657.86	1963.	0.0282	0.C9	0.0047
13.15	17C1.42	73380.	1.0540	3.19	0.1759
13.95	1738.13	1277C.	0.1834	0.55	0.0306
15.43	18CC.93	27060.	0.3887	1.17	0.0649
15.75	1815.69	8228.	0.1182	0.36	0.0197
16.47	1847.82	3820.	0.0549	0.17	0.0092
16.90	1866.35	5536.	0.0795	0.24	0.0133
17.72	19CC.47	11670.	0.1676	0.51	0.0280
18.75	1947.51	25920.	0.3723	1.13	0.0621
20.01	20C1.91	6302.	0.0905	0.27	0.0151
20.96	2046.30	90240.	1.2962	3.92	0.2164
21.83	2085.21	212900.	3.0580	9.24	0.5105
22.37	2109.75	66060.	0.9489	2.87	0.1584
23.11	2145.07	211100.	3.0322	9.17	0.5062
23.97	2184.72	101800.	1.4622	4.42	0.2441
25.15	2241.76	36360.	0.5223	1.58	0.0872
25.94	2279.79	145200.	2.0856	6.30	0.3482
26.36	2299.54	19480.	0.2798	0.85	0.0467
26.85	2324.80	3681.	0.0529	0.16	0.0088
27.17	2341.08	17950.	0.2578	0.78	0.0430
27.84	2374.56	3167.	0.0455	0.14	0.0076
28.37	24C0.54	19820.	0.2847	0.86	0.0475
29.76	2473.56	6698.	0.0962	0.29	0.0161
30.3C	25C1.11	51320.	0.7371	2.23	0.1231
30.98	2538.54	968.	0.0139	0.04	0.0023
31.56	2569.81	5384.	0.0773	0.23	0.0129
32.15	2601.16	44850.	0.6442	1.95	0.1075
32.82	2639.62	2695.	0.0387	0.12	0.0065
33.37	2670.61	10540.	0.1514	0.46	0.0253
33.93	27C1.79	47210.	0.6781	2.05	0.1132
35.64	2801.22	33380.	0.4795	1.45	0.0800
36.0E	2828.00	3143.	0.0451	0.14	0.0075
36.80	2871.13	45480.	0.6533	1.97	0.1090
37.32	29C1.89	99640.	1.4312	4.33	0.2389
37.80	2931.94	25200.	0.3620	1.09	0.0604
38.92	3000.65	36800.	0.5286	1.60	0.0882
40.05	3073.46	5634.	0.0809	0.24	0.0135

40.49	3101.31	49050.	0.7045	2.13	0.1176
41.77	3184.12	188500.	2.7075	8.18	0.4520
43.09	3270.76	30250.	0.4345	1.31	0.0725
43.53	3299.35	47340.	0.6800	2.06	0.1135
44.05	3333.29	393800.	5.6564	17.10	0.9442
45.05	3397.46	17230.	0.2475	0.75	0.0413
47.01	3520.01	39730.	0.5707	1.73	0.0953

COTTER/MEYERS U OF M

SAMPLE NUMBER: 85

BLM CODE: II-O-I SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 30 SAMPLE WEIGHT: 5.991 GRAMS

ISP/N-ALK: 0.172 BRANCHED/NORMAL: 4.656

ODD/EVEN: 1.562 ODD/EVEN ≤20: 1.784 ODD/EVEN >20: 1.505

N-ALK/ALL: 0.177 N-ALK/C16: 24.42 N-ALK (≤20/>20): 0.74

PRIS/PHYT: 3.38 PRIS/C17: 0.68 PHYT/C18: 0.32

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 2.837

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.88	0.0	0.	0.0	0.0	0.0
6.13	1500.00	2400.	0.1412	0.83	0.0236
7.46	1600.00	2092.	0.1231	0.72	0.0205
7.83	1628.91	1181.	0.0695	0.41	0.0116
8.23	1658.66	6776.	0.3986	2.35	0.0665
8.60	1684.92	852.	0.0501	0.29	0.0084
8.83	1700.78	10009.	0.5888	3.46	0.0983
9.53	1753.62	5564.	0.3273	1.93	0.0546
9.74	1768.72	2007.	0.1181	0.69	0.0197
9.95	1783.49	4434.	0.2608	1.53	0.0435
10.21	1801.58	6240.	0.3671	2.16	0.0613
10.90	1854.14	1853.	0.1090	0.64	0.0182
11.55	1900.81	7110.	0.4183	2.46	0.0698
11.96	1933.49	7569.	0.4453	2.62	0.0743
12.23	1954.40	1847.	0.1087	0.64	0.0181
12.64	1985.29	3691.	0.2171	1.28	0.0362
12.85	2000.83	2610.	0.1535	0.90	0.0256
13.22	2031.16	29989.	1.7641	10.38	0.2945
13.58	2059.86	24365.	1.4333	8.43	0.2393
13.88	2083.20	2499.	0.1470	0.87	0.0245
14.45	2129.78	65813.	3.8715	22.78	0.6463
15.09	2182.42	16430.	0.9665	5.69	0.1613
15.31	2200.00	3054.	0.1797	1.06	0.0300
15.67	2230.55	19739.	1.1612	6.83	0.1938
16.30	2282.38	2399.	0.1411	0.83	0.0236
16.84	2325.71	28053.	1.6502	9.71	0.2755
17.60	2384.86	3501.	0.2059	1.21	0.0344
19.39	2499.40	8854.	0.5208	3.06	0.0869
21.39	2599.53	8710.	0.5124	3.01	0.0855
23.89	0.0	9257.	0.5445	3.20	0.0909

COTTER/MEYERS U OF M

SAMPLE NUMBER: 85 BLK NUMBER: II-C-I

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: 71 SAMPLE WEIGHT: 5.991 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 143.946

MI	RI	AREA	UG/PEAK	PCT	UG/G
4.08	[illegible]	31440.	0.4177	0.05	0.0697
4.34	[illegible]	10370.	0.1378	0.02	0.0230
4.83	1325.77	10710.	0.1423	0.02	0.0238
4.95	1334.44	17790.	0.2363	0.03	0.0395
5.60	1381.76	66280.	0.8806	0.10	0.1470
5.94	1396.81	13820.	0.2550	0.03	0.0417
6.66	1442.92	9766.	0.1297	0.02	0.0217
7.06	1469.44	78120.	1.0379	0.12	0.1732
7.75	1501.68	11850.	0.1574	0.02	0.0263
8.03	1517.01	16000.	0.2126	0.02	0.0355
8.71	1552.14	14210.	0.1888	0.02	0.0315
9.31	1586.78	99080.	1.3163	0.15	0.2197
9.74	1600.51	16720.	0.2221	0.03	0.0371
10.05	1616.14	12440.	0.1653	0.02	0.0276
10.82	1652.96	4658.	0.0620	0.01	0.0104
11.30	1674.61	159790.	2.1217	0.25	0.3542
12.08	1709.74	104000.	1.3817	0.16	0.2306
12.56	1732.02	11510.	0.1529	0.02	0.0255
13.19	1760.61	80240.	1.0660	0.12	0.1780
13.54	1775.91	673000.	8.9410	1.04	1.4925
14.36	1811.45	105600.	1.4029	0.16	0.2342
14.56	1821.31	90990.	1.2086	0.14	0.2016
15.05	1843.77	337000.	4.4772	0.52	0.7474
15.99	1884.89	536100.	7.1223	0.83	1.1889
16.57	1910.56	795800.	10.5725	1.23	1.7649
17.54	1955.18	884200.	11.7469	1.36	1.9609
18.07	1978.56	1025000.	13.6175	1.58	2.2732
19.01	2021.28	843600.	11.2075	1.30	1.8709
19.72	2054.61	420600.	5.5878	0.65	0.9328
20.45	2087.64	1027000.	13.6441	1.58	2.2776
20.97	2111.93	495700.	6.5856	0.76	1.0993
21.27	2125.65	303500.	4.0321	0.47	0.6731
21.85	2154.53	2052000.	27.2616	3.16	4.5508
22.31	2175.66	303000.	4.0255	0.47	0.6720
22.75	2196.36	640400.	8.5079	0.99	1.4202
23.23	2220.29	309400.	4.1105	0.48	0.6862
23.97	2256.93	1040000.	13.8168	1.60	2.3064
24.58	2286.29	674800.	8.9650	1.04	1.4965
25.31	2323.12	883000.	11.7310	1.36	1.9583
25.97	2357.05	1581000.	21.0042	2.44	3.5062
26.69	2393.16	806400.	10.7133	1.24	1.7884
27.09	2414.10	348800.	11.2766	1.31	1.8824
27.56	2439.24	708800.	9.4167	1.09	1.5719
27.94	2459.25	2174000.	28.8824	3.35	4.8214
28.61	2493.85	1425000.	18.9316	2.20	3.1603
29.03	2517.00	5757000.	76.4838	8.87	12.7675
29.79	2559.31	1902000.	25.2688	2.93	4.2181
30.17	2581.05	916000.	12.1694	1.41	2.0314
30.53	2599.47	1110000.	14.7468	1.71	2.4617
30.83	2616.96	684800.	9.0447	1.05	1.5098
31.21	2638.95	737400.	9.7966	1.14	1.6354

31.87	2676.50	11030000.	146.5375	16.99	24.4616
32.95	2739.21	5953000.	77.7592	9.02	12.9804
33.57	2775.34	2428000.	32.2569	3.74	5.3847
34.35	2822.00	7020000.	93.2632	10.82	15.5685
35.39	2886.03	1255000.	16.6731	1.93	2.7833
36.35	2927.49	581400.	7.7241	0.90	1.2894
36.44	2952.11	595800.	7.9088	0.92	1.3202
36.62	2963.43	802400.	10.6602	1.24	1.7795
37.57	3024.05	99820.	1.3261	0.15	0.2214
38.41	3079.28	403200.	5.3547	0.62	0.8932
39.35	3142.35	1323000.	17.5765	2.04	2.9341
40.01	3186.70	225600.	2.9968	0.34	0.4892
40.79	0.0	24060.	0.3196	0.04	0.0534
41.32	0.0	238600.	3.1699	0.37	0.5292
42.12	0.0	121700.	1.6168	0.19	0.2699
43.15	0.0	7500.	0.0996	0.01	0.0166
43.63	0.0	14840.	0.1972	0.02	0.0329
44.58	0.0	12040.	0.1600	0.02	0.0267
45.97	0.0	16080.	0.2136	0.02	0.0357

COETER/MEYERS U OF M

SAMPLE NUMBER: 85 BLM NUMBER: II-O-I

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 49 SAMPLE WEIGHT: 5.991 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 106.061

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.77	0.0	605.	0.0530	0.01	0.0089
6.26	1519.72	985.	0.0863	0.01	0.0144
6.92	1570.28	3208.	0.2812	0.04	0.0469
8.13	1659.73	789.	0.0692	0.01	0.0115
8.38	1677.43	827.	0.0725	0.01	0.0121
8.68	1697.98	2659.	0.2331	0.04	0.0389
9.81	1781.41	2401.	0.2104	0.03	0.0351
10.50	1832.71	2919.	0.2558	0.04	0.0427
11.21	1885.13	20789.	1.8221	0.29	0.3042
11.41	1899.30	6131.	0.5374	0.08	0.0897
11.85	1934.04	3875.	0.3396	0.05	0.0567
12.27	1966.11	21735.	1.9050	0.30	0.3180
12.58	1989.08	6121.	0.5365	0.08	0.0896
12.92	2015.82	44668.	3.9150	0.62	0.6535
13.12	2032.22	27675.	2.4256	0.38	0.4049
13.56	2067.43	82023.	7.1891	1.13	1.2001
13.76	2083.06	32649.	2.8616	0.45	0.4777
13.96	2098.47	12951.	1.1351	0.18	0.1895
14.13	2112.86	27529.	2.4128	0.38	0.4028
14.32	2128.95	20795.	1.8226	0.29	0.3043
14.66	2157.22	98332.	8.6185	1.36	1.4387
15.02	2186.44	101710.	8.9146	1.40	1.4881
15.41	2219.38	105080.	9.2100	1.45	1.5374
15.76	2249.64	139632.	12.2383	1.93	2.0430
16.02	2271.70	46729.	4.0957	0.64	0.6837
16.45	2307.12	202506.	17.7491	2.79	2.9629
17.04	2352.87	74638.	6.5418	1.03	1.0920
17.41	2380.76	27450.	2.4059	0.38	0.4016
18.02	2423.18	55263.	4.8436	0.76	0.8086
18.43	2449.78	389185.	34.1110	5.37	5.6942
18.89	2478.92	75481.	6.6157	1.04	1.1044
19.40	2508.98	5641.	0.4944	0.08	0.0825
20.46	2563.27	50122.	4.3931	0.69	0.7333
21.04	2591.79	95071.	8.3327	1.31	1.3910
21.88	0.0	15108.	1.3242	0.21	0.2210
22.49	0.0	188263.	16.5007	2.60	2.7545
23.48	0.0	159508.	13.9804	2.20	2.3338
24.57	0.0	76731.	6.7253	1.06	1.1227
25.42	0.0	38584.	3.3818	0.53	0.5645
26.66	0.0	302234.	26.4899	4.17	4.4220
28.05	0.0	762588.	66.8387	10.52	11.1574
29.07	0.0	300776.	26.3622	4.15	4.4007
33.14	0.0	123628.	10.8356	1.71	1.8088
34.57	0.0	33080.	2.8994	0.46	0.4840
36.12	0.0	41982.	3.6796	0.58	0.6142
39.55	0.0	1342885.	117.7001	18.52	19.6478
40.94	0.0	1314040.	115.1719	18.13	19.2258
44.55	0.0	756015.	66.2626	10.43	11.0613
48.14	0.0	5466.	0.4791	0.08	0.0800

COTTER/MEYERS U OF M

SAMPLE NUMBER: 86

BLM CODE: II-M-I SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 46 SAMPLE WEIGHT: 15.000 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 8.715

ODD/EVEN: 4.599 ODD/EVEN ≤20: 6.158 ODD/EVEN >20: 3.386

N-ALK/ALL: 0.103 N-ALK/C16: 77.75 N-ALK (≤20/>20): 1.65

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 2.198

RT	RI	AREA	UG/PEAK	PCT	UG/G
8.79	1502.10	18160.	0.1747	0.53	0.0116
10.15	1568.41	1565.	0.0151	0.05	0.0010
10.71	1593.16	2280.	0.0219	0.07	0.0015
10.91	1601.95	4536.	0.0436	0.13	0.0029
12.19	1660.92	2308.	0.0222	0.07	0.0015
13.15	1701.42	145700.	1.4018	4.25	0.0935
15.46	1802.33	19310.	0.1858	0.56	0.0124
16.34	1842.12	23750.	0.2285	0.69	0.0152
16.93	1867.62	1995.	0.0192	0.06	0.0013
17.27	1881.92	1516.	0.0146	0.04	0.0010
17.57	1894.29	1677.	0.0161	0.05	0.0011
17.73	1900.94	3843.	0.0370	0.11	0.0025
18.14	1919.97	1504.	0.0145	0.04	0.0010
20.01	2001.91	3388.	0.0326	0.10	0.0022
21.03	2049.49	9166.	0.0882	0.27	0.0059
21.88	2087.40	593000.	5.7055	17.31	0.3804
22.41	2111.69	324300.	3.1202	9.46	0.2080
24.36	2202.53	3092.	0.0297	0.09	0.0020
25.86	2275.99	2382.	0.0229	0.07	0.0015
26.39	2301.04	12610.	0.1213	0.37	0.0081
26.85	2324.80	8160.	0.0785	0.24	0.0052
28.42	2403.23	3371.	0.0324	0.10	0.0022
29.75	2473.05	10320.	0.0993	0.30	0.0066
30.37	2505.01	33330.	0.3207	0.97	0.0214
31.67	2575.68	20500.	0.1972	0.60	0.0131
32.20	2604.06	22430.	0.2158	0.65	0.0144
32.83	2640.19	1619.	0.0156	0.05	0.0010
33.93	2701.79	61940.	0.5959	1.81	0.0397
35.32	2782.91	13040.	0.1255	0.38	0.0084
35.75	2807.95	23000.	0.2213	0.67	0.0148
36.09	2828.61	90140.	0.8673	2.63	0.0578
36.77	2869.35	236700.	2.2774	6.91	0.1518
37.50	2913.20	639900.	6.1567	18.68	0.4104
38.37	2967.13	216600.	2.0840	6.32	0.1389
38.98	3004.57	155700.	1.4980	4.54	0.0999
40.07	3074.73	153900.	1.4807	4.49	0.0987
40.55	3105.25	95300.	0.9169	2.78	0.0611
41.64	3175.83	17580.	0.1691	0.51	0.0113
42.05	3202.01	19930.	0.1918	0.58	0.0128
43.11	3272.07	41120.	0.3956	1.20	0.0264
43.56	3301.31	31170.	0.2999	0.91	0.0200

44.07	3334.58	33680.	0.3240	0.98	0.0216
45.11	3401.19	3215.	0.0309	0.09	0.0021
46.29	3470.97	22880.	0.2201	0.67	0.0147
47.05	3523.63	289600.	2.7863	8.45	0.1858
50.00	0.0	5259.	0.0506	0.15	0.0034

COTTER/MEYERS U OF M

SAMPLE NUMBER: 86

BLM CODE: II-M-I SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 36 SAMPLE WEIGHT: 15.000 GRAMS

ISP/N-ALK: 0.201 BRANCHED/NORMAL: 5.308

ODD/EVEN: 2.098 ODD/EVEN ≤20: 1.925 ODD/EVEN >20: 1.420

N-ALK/ALL: 0.159 N-ALK/C16: 12.24 N-ALK(≤20/>20): 2.33

PRIS/PHYT: 2.14 PRIS/C17: 0.41 PHYT/C18: 0.49

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 1.065

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.86	0.0	0.	0.0	0.0	0.0
3.44	0.0	2089.	0.0672	0.42	0.0045
6.11	1498.55	7524.	0.2419	1.51	0.0161
6.80	1552.83	2310.	0.0743	0.46	0.0050
7.44	1598.63	6437.	0.2070	1.30	0.0138
7.79	1625.85	2322.	0.0747	0.47	0.0050
8.22	1657.93	10776.	0.3465	2.17	0.0231
8.80	1698.64	26115.	0.8397	5.26	0.0560
9.25	1732.97	6491.	0.2087	1.31	0.0139
9.50	1751.44	17751.	0.5708	3.57	0.0381
9.70	1765.87	5042.	0.1621	1.01	0.0108
9.93	1782.10	5257.	0.1690	1.06	0.0113
10.17	1798.64	10192.	0.3277	2.05	0.0218
10.86	1851.18	7020.	0.2257	1.41	0.0150
11.27	1880.97	2062.	0.0663	0.42	0.0044
11.51	1897.91	6660.	0.2141	1.34	0.0143
11.85	1924.83	10709.	0.3443	2.16	0.0230
12.21	1952.87	7396.	0.2378	1.49	0.0159
12.65	1986.03	2748.	0.0884	0.55	0.0059
12.81	1997.81	4309.	0.1386	0.87	0.0092
13.19	2028.73	45783.	1.4721	9.21	0.0981
13.55	2057.50	146313.	4.7045	29.45	0.3136
13.87	2082.43	1532.	0.0493	0.31	0.0033
14.41	2126.42	97899.	3.1478	19.70	0.2099
14.79	2158.03	13966.	0.4491	2.81	0.0299
15.28	2197.62	4185.	0.1346	0.84	0.0090
15.63	2227.19	2180.	0.0701	0.44	0.0047
15.89	2248.88	1664.	0.0535	0.33	0.0036
16.45	2294.42	3548.	0.1141	0.71	0.0076
17.14	2349.37	1712.	0.0550	0.34	0.0037
17.50	2377.22	5037.	0.1620	1.01	0.0108
17.76	2396.98	4295.	0.1381	0.86	0.0092
18.68	2456.06	8680.	0.2791	1.75	0.0186
19.35	2497.00	5630.	0.1810	1.13	0.0121
20.60	2561.17	7806.	0.2510	1.57	0.0167
21.33	2596.66	3416.	0.1098	0.69	0.0073

CCITER/MEYERS U OF M

SAMPLE NUMBER: 8[illegible] BLK NUMBER: II-M-I

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: [illegible] SAMPLE WEIGHT: 15.000 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 56.319

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.35	0.0	0.	0.0	0.0	0.0
4.11	0.0	4720.	0.0867	0.01	0.0058
4.30	0.0	11540.	0.2120	0.03	0.0141
4.51	0.0	41070.	0.7546	0.09	0.0503
4.81	1321.34	20020.	0.3679	0.04	0.0245
4.96	1332.27	45810.	0.8417	0.10	0.0561
5.14	1344.95	97740.	1.7959	0.21	0.1197
5.65	1378.61	23110.	0.4246	0.05	0.0283
5.93	1395.82	68830.	1.2642	0.15	0.0843
6.37	1423.15	9988.	0.1835	0.02	0.0122
6.69	1442.11	19540.	0.3590	0.04	0.0239
7.05	1462.26	17090.	0.3140	0.04	0.0209
7.70	1496.50	200930.	3.6914	0.44	0.2461
8.45	1536.63	1103.	0.0203	0.00	0.0014
8.97	1562.70	44630.	0.8200	0.10	0.0547
9.45	1585.46	13560.	0.2598	0.03	0.0240
9.78	1596.80	247200.	4.5421	0.54	0.3028
11.13	1663.90	113200.	2.0800	0.25	0.1387
12.07	1706.81	1173000.	21.5531	2.55	1.4369
13.53	1773.44	577700.	10.6149	1.26	0.7077
14.17	1800.48	1123000.	20.6344	2.44	1.3756
14.85	1832.53	426500.	7.8367	0.93	0.5224
16.07	1886.52	2390000.	43.9147	5.20	2.9276
16.59	1910.02	4862000.	88.2336	10.44	5.8822
21.03	2112.92	6172000.	113.4065	13.42	7.5604
21.85	2152.63	399500.	7.3406	0.87	0.4894
22.43	2179.83	1455000.	26.7347	3.16	1.7823
23.08	2210.75	1641000.	30.1523	3.57	2.0102
23.63	2238.44	648600.	11.9176	1.41	0.7945
24.01	2257.20	151900.	2.7911	0.33	0.1861
24.63	2287.18	1776100.	32.6328	3.86	2.1755
25.11	2311.03	1535000.	28.2046	3.34	1.8803
25.86	2349.68	181500.	3.3349	0.39	0.2223
26.00	2356.74	212900.	3.9119	0.46	0.2608
27.09	2411.94	675400.	12.4100	1.47	0.8273
28.01	2460.81	451600.	8.2979	0.98	0.5532
28.53	2487.74	613800.	11.2782	1.34	0.7519
28.95	2510.29	599600.	11.0173	1.30	0.7345
30.33	2580.27	279700.	5.1393	0.61	0.3426
30.78	2612.23	564500.	10.3723	1.23	0.6915
31.71	2665.41	474900.	8.7280	1.03	0.5817
32.14	2689.47	464900.	8.5422	1.01	0.5695
32.55	2713.31	1114000.	20.4690	2.42	1.3646
33.67	2779.70	294100.	5.4039	0.64	0.3603
34.25	2814.23	523900.	9.6263	1.14	0.6418
35.24	2871.99	278000.	5.1081	0.60	0.3405
35.89	2914.27	314200.	5.7732	0.68	0.3849
36.85	2975.56	318600.	5.8541	0.69	0.3903
37.57	3022.09	678000.	12.4578	1.47	0.8305
38.25	3066.89	1182000.	21.7185	2.57	1.4479
38.99	3115.38	793600.	14.5819	1.73	0.9721

39.4[illegible]	3142.57	789000.	14.4974	1.72	0.9665
40.01	3181.86	1773000.	32.5777	3.86	2.1718
40.22	3198.12	1211000.	22.2513	2.63	1.4834
40.67	3227.62	1377000.	25.3015	3.00	1.6868
41.41	3278.62	2579000.	47.2956	5.60	3.1533
42.37	3346.26	1267000.	23.2803	2.76	1.5520
43.03	3391.80	1713000.	31.4753	3.73	2.0984

COTTER/MEYERS U OF M

SAMPLE NUMBER: 86 BLM NUMBER: II-M-I

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 38 SAMPLE WEIGHT: 15.000 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 32.275

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.05	1402.64	1745.	0.1629	0.03	0.0109
6.30	1500.83	2822.	0.2635	0.05	0.0176
7.64	1601.57	1994.	0.1862	0.04	0.0124
8.16	1641.13	6020.	0.5621	0.12	0.0375
8.67	1677.56	3292.	0.3074	0.06	0.0205
9.03	1702.33	15904.	1.4850	0.31	0.0990
9.40	1730.48	3146.	0.2938	0.06	0.0196
10.15	1784.29	1780.	0.1662	0.03	0.0111
10.53	1811.73	1479.	0.1381	0.03	0.0092
10.83	1834.71	11703.	1.0927	0.23	0.0728
11.30	1869.45	785.	0.0733	0.02	0.0049
11.56	1888.06	5241.	0.4894	0.10	0.0326
11.90	1913.69	1861.	0.1738	0.04	0.0116
12.22	1938.94	44688.	4.1726	0.86	0.2782
12.93	1992.67	6899.	0.6442	0.13	0.0429
13.24	2017.32	139547.	13.0299	2.69	0.8687
13.57	2043.99	63928.	5.9691	1.23	0.3979
13.91	2070.80	56334.	5.2601	1.09	0.3507
14.24	2096.20	20397.	1.9045	0.39	0.1270
14.52	2119.49	93980.	8.7752	1.81	0.5850
14.69	2133.70	62594.	5.8446	1.21	0.3896
14.87	2148.57	151159.	14.1141	2.92	0.9409
15.16	2172.14	46121.	4.3064	0.89	0.2871
15.48	2197.64	47587.	4.4433	0.92	0.2962
15.77	2222.67	805353.	75.1980	15.53	5.0132
16.13	2253.46	392526.	36.6512	7.57	2.4434
16.37	2273.60	120753.	11.2750	2.33	0.7517
16.58	2290.98	49127.	4.5871	0.95	0.3058
16.99	2322.27	387874.	36.2169	7.48	2.4145
17.44	2354.95	117600.	10.9806	2.27	0.7320
17.71	2374.15	117271.	10.9499	2.26	0.7300
18.53	2427.67	989839.	92.4240	19.09	6.1616
18.99	2455.27	887575.	82.8753	17.12	5.5250
19.41	2479.89	95496.	8.9167	1.84	0.5944
19.76	2500.00	55737.	5.2043	1.08	0.3470
20.34	2528.78	234691.	21.9137	4.53	1.4609
20.85	2553.41	133576.	12.4724	2.58	0.8315
21.83	2599.09	6387.	0.5964	0.12	0.0398

COTTER/MEYERS U OF M

SAMPLE NUMBER: 87

BLM CODE: 61 A SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 36 SAMPLE WEIGHT: 3.885 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 40.778

ODD/EVEN: 0.938 ODD/EVEN ≤20: 1.175 ODD/EVEN >20: 0.423

N-ALK/ALL: 0.024 N-ALK/C16: 4.91 N-ALK(≤20/>20): 2.11

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 15.030

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.18	1305.58	981.	0.0129	0.02	0.0033
6.77	1401.80	5239.	0.0691	0.12	0.0178
7.97	1467.81	1832.	0.0242	0.04	0.0062
8.66	1501.59	17430.	0.2298	0.39	0.0592
10.02	1568.57	52520.	0.6925	1.19	0.1782
10.75	1600.98	21580.	0.2846	0.49	0.0732
11.95	1656.57	27970.	0.3688	0.63	0.0949
12.53	1681.47	2548000.	33.5975	57.53	8.6469
15.29	1800.93	23060.	0.3041	0.52	0.0783
16.76	1866.36	15300.	0.2017	0.35	0.0519
17.59	1900.94	16450.	0.2169	0.37	0.0558
18.29	1933.19	1664.	0.0219	0.04	0.0056
19.50	1986.13	4480.	0.0591	0.10	0.0152
19.84	2000.48	7770.	0.1025	0.18	0.0264
21.69	2085.22	371600.	4.8999	8.39	1.2611
22.23	2109.75	186100.	2.4539	4.20	0.6315
22.94	2143.66	15750.	0.2077	0.36	0.0534
25.77	2278.37	14870.	0.1961	0.34	0.0505
26.62	2320.08	6972.	0.0919	0.16	0.0237
27.71	2374.70	12070.	0.1592	0.27	0.0410
30.31	2511.48	13470.	0.1776	0.30	0.0457
31.50	2575.04	68320.	0.9009	1.54	0.2319
31.99	2776.75	8042.	0.1060	0.18	0.0273
33.31	2785.85	2471.	0.0326	0.06	0.0084
35.79	2819.64	97440.	1.2848	2.20	0.3307
36.60	2868.56	45030.	0.5938	1.02	0.1528
37.29	2910.19	61560.	0.8117	1.39	0.2089
37.63	2931.70	15390.	0.2029	0.35	0.0522
38.07	2959.26	1484.	0.0196	0.03	0.0050
40.43	3110.63	29960.	0.3950	0.68	0.1017
41.83	3202.08	10180.	0.1342	0.23	0.0345
42.91	3275.83	3551.	0.0468	0.08	0.0121
43.31	3302.75	4304.	0.0568	0.10	0.0146
43.75	3332.80	16450.	0.2169	0.37	0.0558
46.62	0.0	617500.	8.1423	13.94	2.0955
47.83	0.0	82280.	1.0849	1.86	0.2792

COTTER/MEYERS U OF M

SAMPLE NUMBER: 87

BLM CODE: 61 A SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 32 SAMPLE WEIGHT: 3.885 GRAMS

ISP/N-ALK: 0.193 BRANCHED/NORMAL: 6.748

ODD/EVEN: 0.631 ODD/EVEN ≤20: 0.580 ODD/EVEN >20: 0.750

N-ALK/ALL: 0.129 N-ALK/C16: 5.50 N-ALK (≤20/>20): 1.31

PRIS/PHYT: 1.20 PRIS/C17: 0.56 PHYT/C18: 0.38

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 4.758

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.24	0.0	3136.	0.1124	0.61	0.0289
2.50	0.0	501.	0.0180	0.10	0.0046
2.87	0.0	0.	0.0	0.0	0.0
3.78	0.0	715.	0.0256	0.14	0.0066
4.88	0.0	2168.	0.0777	0.42	0.0200
6.13	1500.00	5088.	0.1823	0.99	0.0469
7.46	1600.00	12096.	0.4334	2.34	0.1115
7.82	1628.14	4824.	0.1728	0.94	0.0445
8.24	1659.38	7020.	0.2515	1.36	0.0647
8.83	1700.78	12610.	0.4518	2.44	0.1163
9.30	1736.70	3588.	0.1286	0.70	0.0331
9.52	1752.90	7965.	0.2854	1.54	0.0734
9.73	1768.01	5831.	0.2089	1.13	0.0538
10.20	1800.79	15198.	0.5445	2.95	0.1401
10.89	1853.40	3881.	0.1391	0.75	0.0358
11.54	1900.00	6063.	0.2172	1.18	0.0559
11.97	1934.27	2837.	0.1017	0.55	0.0262
12.40	1967.33	4398.	0.1576	0.85	0.0406
12.91	2005.81	38395.	1.3757	7.44	0.3541
13.34	2040.81	53864.	1.9300	10.44	0.4967
13.58	2059.86	126955.	4.5488	24.61	1.1707
14.44	2128.94	72436.	2.5954	14.04	0.6680
14.69	2149.79	18661.	0.6686	3.62	0.1721
15.29	2198.41	8876.	0.3180	1.72	0.0819
15.64	2228.03	3339.	0.1196	0.65	0.0308
16.47	2296.01	6655.	0.2385	1.29	0.0614
16.73	2316.93	10441.	0.3741	2.02	0.0963
17.16	2350.93	1620.	0.0580	0.31	0.0149
17.69	2391.69	36966.	1.3245	7.16	0.3409
18.73	2459.17	4322.	0.1549	0.84	0.0399
20.46	2554.22	13262.	0.4752	2.57	0.1223
22.98	0.0	22217.	0.7960	4.31	0.2049

COTTER/MEYERS U OF M

SAMPLE NUMBER: 67 RL. NUMBER: 61 A

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 67 SAMPLE WEIGHT: 3.985 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 120.838

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.23	[illegible]	229200.	4.5997	3.96	1.1607
4.75	1316.87	55420.	1.1904	0.23	0.2806
5.37	1360.53	65740.	1.2935	0.28	0.3329
5.71	1382.37	58240.	1.1459	0.24	0.2949
5.98	1397.02	32430.	0.6381	0.14	0.1642
6.41	1425.57	11220.	0.2208	0.05	0.0568
6.81	1448.99	27920.	0.5494	0.12	0.1414
7.05	1462.93	8186.	0.1611	0.03	0.0415
7.46	1484.25	9434.	0.1856	0.04	0.0480
7.75	1499.01	21520.	0.4234	0.09	0.1090
8.44	1536.11	2097.	0.0413	0.01	0.0106
8.93	1560.75	379600.	6.0917	1.30	1.5678
9.46	1585.92	1265.	0.0249	0.01	0.0064
9.75	1599.11	54680.	1.0761	0.23	0.2769
10.86	1652.95	51150.	1.0066	0.21	0.2591
11.37	1675.93	309900.	6.0799	1.30	1.5648
11.94	1700.49	64380.	1.2667	0.27	0.3260
12.10	1706.26	103700.	2.0404	0.43	0.5251
12.90	1747.87	3233.	0.0648	0.01	0.0167
13.29	1762.56	29570.	0.5818	0.12	0.1497
13.80	1789.18	48110.	0.9466	0.20	0.2436
14.15	1799.59	69480.	1.3671	0.29	0.3518
14.87	1833.45	57650.	1.1343	0.24	0.2919
15.59	1865.78	21850.	0.4299	0.09	0.1106
16.07	1886.52	35620.	0.7008	0.15	0.1804
16.55	1907.65	155700.	3.0636	0.65	0.7885
16.87	1922.72	25070.	0.4933	0.11	0.1270
17.43	1948.43	47810.	0.9407	0.20	0.2421
18.19	1982.03	220600.	4.3405	0.92	1.1171
18.71	2004.39	98180.	1.9318	0.41	0.4972
19.19	2026.05	165200.	3.2505	0.69	0.8366
19.62	2043.68	6458.	0.1271	0.03	0.0327
20.42	2084.52	1004300.	19.7547	4.21	5.0842
21.89	2154.53	57300.	1.1274	0.24	0.2902
22.19	2168.44	67500.	1.3281	0.28	0.3418
25.77	2345.19	35080.	0.6903	0.15	0.1774
26.89	2391.17	684600.	13.4741	2.87	3.4678
27.51	2434.45	47840.	0.9413	0.20	0.2423
28.03	2492.86	656800.	12.9232	2.75	3.3260
30.21	2581.49	5853100.	115.1638	24.53	29.6394
30.93	2597.84	1595000.	31.3833	6.69	8.0779
31.67	2663.15	843400.	16.5948	3.54	4.2709
32.21	2693.35	411200.	8.0908	1.72	2.0823
32.86	2731.91	555400.	10.9281	2.33	2.8125
33.19	2745.69	1095000.	21.5452	4.59	5.5453
33.49	2769.18	513800.	10.1095	2.15	2.6019
34.25	2816.08	1183300.	23.2767	4.96	5.9907
35.19	2871.40	2396000.	47.1831	10.05	12.1434
36.15	2931.04	827400.	16.2799	3.47	4.1899
36.80	2972.41	187900.	3.6971	0.79	0.9515
37.63	3026.14	174210.	3.4276	0.73	0.8821

38.24	3066.24	464100.	9.1316	1.95	2.3502
38.94	3114.71	440600.	8.6693	1.85	2.2312
39.71	3162.95	417900.	8.2226	1.75	2.1162
40.31	3202.13	314300.	6.1842	1.32	1.5916
40.65	3226.21	156800.	3.0852	0.66	0.7940
41.41	3279.31	255400.	5.0253	1.07	1.2933
42.09	3326.73	398900.	7.8488	1.67	2.0200
42.56	3359.44	299900.	5.9008	1.26	1.5187
43.23	3403.91	518300.	10.1981	2.17	2.6247

COTTLER/MEYERS U OF M

SAMPLE NUMBER: 87 BLM NUMBER: 61 A

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 29 SAMPLE WEIGHT: 3.885 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 30.396

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.04	1401.76	2300.	0.1926	0.16	0.0496
6.30	1500.83	3831.	0.3209	0.27	0.0826
7.64	1601.57	9309.	0.7796	0.66	0.2007
8.45	1662.11	5271.	0.4415	0.37	0.1136
9.03	1702.33	7868.	0.6590	0.56	0.1696
9.94	1769.64	2726.	0.2283	0.19	0.0588
10.40	1801.57	9531.	0.7982	0.68	0.2054
10.69	1824.07	2133.	0.1786	0.15	0.0460
11.33	1871.62	977.	0.0818	0.07	0.0211
11.53	1885.93	847.	0.0709	0.06	0.0183
12.32	1946.69	12478.	1.0451	0.88	0.2690
12.52	1962.01	11772.	0.9859	0.83	0.2537
13.06	2002.49	89765.	7.5180	6.37	1.9349
13.29	2021.41	22157.	1.8557	1.57	0.4776
13.57	2043.99	46975.	3.9342	3.33	1.0125
13.83	2064.55	25433.	2.1301	1.80	0.5482
14.23	2095.44	22652.	1.8971	1.61	0.4883
14.72	2136.19	70751.	5.9255	5.02	1.5250
15.18	2173.75	15405.	1.2902	1.09	0.3321
15.43	2193.69	52997.	4.4386	3.76	1.1423
15.80	2225.27	66164.	5.5413	4.69	1.4262
16.13	2253.46	25523.	2.1376	1.81	0.5501
16.32	2269.43	32457.	2.7183	2.30	0.6996
16.87	2313.41	286612.	24.0042	20.32	6.1779
17.90	2387.49	291368.	24.4025	20.66	6.2804
18.50	2425.84	35131.	2.9423	2.49	0.7572
19.19	2467.06	188915.	15.8219	13.40	4.0720
21.17	2568.56	59694.	4.9995	4.23	1.2867
21.93	0.0	9108.	0.7628	0.65	0.1963

COTTER/MEYERS U OF M

SAMPLE NUMBER: 88

BLM CODE: 58 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 49 SAMPLE WEIGHT: 13.400 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 8.465

ODD/EVEN: 1.119 ODD/EVEN ≤20: 0.553 ODD/EVEN >20: 4.565

N-ALK/ALL: 0.106 N-ALK/C16: 5.37 N-ALK (≤20/>20): 2.60

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 6.247

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.16	1304.19	8514.	0.1367	0.16	0.0102
5.97	1356.49	1433.	0.0230	0.03	0.0017
6.75	1400.60	23310.	0.3743	0.45	0.0279
7.77	1457.53	4573.	0.0734	0.09	0.0055
7.95	1466.80	14930.	0.2397	0.29	0.0179
8.63	1500.00	64600.	1.0373	1.24	0.0774
9.95	1565.35	181200.	2.9095	3.48	0.2171
10.74	1600.49	102500.	1.6458	1.97	0.1228
11.93	1655.69	58680.	0.9422	1.13	0.0703
12.52	1681.05	2407000.	38.6486	46.17	2.8842
15.27	1800.00	78800.	1.2653	1.51	0.0944
16.75	1865.93	22320.	0.3584	0.43	0.0267
17.57	1900.00	38940.	0.6253	0.75	0.0467
18.26	1931.83	2276.	0.0365	0.04	0.0027
19.37	1980.60	81620.	1.3106	1.57	0.0978
19.82	1999.58	65780.	1.0562	1.26	0.0788
20.83	2046.76	11750.	0.1887	0.23	0.0141
21.67	2084.34	357600.	5.7419	6.86	0.4285
22.22	2109.26	80480.	1.2922	1.54	0.0964
23.70	2178.82	1227.	0.0197	0.02	0.0015
27.69	2373.72	17690.	0.2840	0.34	0.0212
29.62	2474.94	48680.	0.7816	0.93	0.0583
30.19	2504.93	37360.	0.5999	0.72	0.0448
31.48	2573.39	54620.	0.8770	1.05	0.0654
31.97	2599.49	21840.	0.3507	0.42	0.0262
32.65	2781.35	1157.	0.0186	0.02	0.0014
33.55	2787.47	38180.	0.6130	0.73	0.0457
33.75	2788.81	34290.	0.5506	0.66	0.0411
34.64	2794.67	2591.	0.0416	0.05	0.0031
35.12	2797.77	2902.	0.0466	0.06	0.0035
35.77	2818.41	131800.	2.1163	2.53	0.1579
36.64	2870.95	2183.	0.0351	0.04	0.0026
37.17	2902.55	43490.	0.6983	0.83	0.0521
37.65	2932.96	643.	0.0103	0.01	0.0008
38.39	2979.10	455.	0.0073	0.01	0.0005
38.73	3000.00	10780.	0.1731	0.21	0.0129
39.17	3028.97	2165.	0.0348	0.04	0.0026
39.88	3075.04	4234.	0.0680	0.08	0.0051
40.29	3101.33	33190.	0.5329	0.64	0.0398
41.43	3176.16	4762.	0.0765	0.09	0.0057
41.77	3198.07	6916.	0.1110	0.13	0.0083

42.20	3227.55	6053.	0.0972	0.12	0.0073
42.89	3274.48	31190.	0.5008	0.60	0.0374
43.27	3300.00	46660.	0.7492	0.89	0.0559
43.69	3328.72	23080.	0.3706	0.44	0.0277
44.72	3398.00	2589.	0.0416	0.05	0.0031
45.88	0.0	18440.	0.2961	0.35	0.0221
46.63	0.0	876000.	14.0657	16.80	1.0497
47.83	0.0	102100.	1.6394	1.96	0.1223

COTTER/MEYERS U OF M

SAMPLE NUMBER: 88

BLM CODE: 5E SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 46 SAMPLE WEIGHT: 13.400 GRAMS

ISP/N-ALK: 0.118 BRANCHED/NORMAL: 3.318

ODD/EVEN: 0.803 CDD/EVEN ≤20: 0.860 ODD/EVEN >20: 0.600

N-ALK/ALL: 0.232 N-ALK/C16: 7.74 N-ALK (≤20/>20): 0.76

PRIS/PHYT: 1.38 PRIS/C17: 0.64 PHYT/C18: 0.40

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 3.066

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.16	0.0	2619.	0.0897	0.22	0.0067
4.71	1401.84	9575.	0.3281	0.80	0.0245
5.07	1433.70	3965.	0.1359	0.33	0.0101
5.32	1454.51	2297.	0.0787	0.19	0.0059
5.93	1501.68	20890.	0.7158	1.74	0.0534
6.59	1554.02	6197.	0.2124	0.52	0.0158
6.80	1569.58	2399.	0.0822	0.20	0.0061
7.25	1601.60	35877.	1.2294	2.99	0.0917
7.63	1631.24	8350.	0.2861	0.70	0.0214
8.04	1661.61	19037.	0.6524	1.59	0.0487
8.61	1701.58	29796.	1.0210	2.49	0.0762
9.08	1737.74	7213.	0.2472	0.60	0.0184
9.30	1754.03	12189.	0.4177	1.02	0.0312
9.52	1769.94	13824.	0.4737	1.15	0.0354
9.98	1802.38	34246.	1.1735	2.86	0.0876
10.36	1831.96	2135.	0.0732	0.18	0.0055
10.66	1854.55	9440.	0.3235	0.79	0.0241
11.05	1882.99	1860.	0.0637	0.16	0.0048
11.31	1901.62	17823.	0.6108	1.49	0.0456
11.72	1934.30	8021.	0.2749	0.67	0.0205
11.99	1955.20	5415.	0.1856	0.45	0.0138
12.18	1969.62	6055.	0.2075	0.51	0.0155
12.66	2005.81	43866.	1.5032	3.66	0.1122
12.97	2031.18	40522.	1.3886	3.38	0.1036
13.12	2043.23	28520.	0.9773	2.38	0.0729
13.36	2062.23	115042.	3.9422	9.60	0.2942
13.70	2088.58	20227.	0.6931	1.69	0.0517
13.87	2101.72	25241.	0.8649	2.11	0.0645
14.22	2131.48	83333.	2.8556	6.95	0.2131
14.69	2170.30	19557.	0.6702	1.63	0.0500
15.09	2202.71	46227.	1.5841	3.86	0.1182
15.42	2232.10	40220.	1.3782	3.35	0.1029
15.67	2253.96	32627.	1.1180	2.72	0.0834
16.23	2301.62	46030.	1.5773	3.84	0.1177
16.59	2330.49	88976.	3.0490	7.42	0.2275
16.89	2354.07	15760.	0.5401	1.31	0.0403
17.38	2391.70	124393.	4.2626	10.38	0.3181
17.81	2421.35	9940.	0.3406	0.83	0.0254
18.27	2451.38	2188.	0.0750	0.18	0.0056
18.58	2471.20	6100.	0.2090	0.51	0.0156
19.00	2497.52	11950.	0.4095	1.00	0.0306

20.07	2556.24	21357.	0.7319	1.78	0.0546
20.95	0.0	2090.	0.0716	0.17	0.0053
22.44	0.0	12905.	0.4422	1.08	0.0330
23.37	0.0	42088.	1.4423	3.51	0.1076
38.66	0.0	60552.	2.0750	5.05	0.1548

COTTER/MEYERS U OF M

SAMPLE NUMBERS: 88 BLM NUMBER: 58

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 59 SAMPLE WEIGHT: 13.450 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 19.960

IS	RI	AREA	UG/PEAK	PCT	UG/G
4.29	[illegible]	97150.	2.1143	0.79	0.1572
4.81	1321.34	17920.	0.3878	0.14	0.0288
5.69	1391.12	30620.	0.6663	0.25	0.0495
5.99	1398.41	32670.	0.7109	0.26	0.0529
6.71	1443.26	1035.	0.0225	0.01	0.0017
7.10	1465.12	8348.	0.1817	0.07	0.0135
7.53	1487.86	9798.	0.2132	0.08	0.0159
7.77	1500.10	23960.	0.5214	0.19	0.0388
8.96	1562.21	210100.	4.5720	1.70	0.3399
9.49	1587.30	13160.	0.2864	0.11	0.0213
9.76	1600.51	47320.	1.0297	0.38	0.0766
10.86	1653.88	20870.	0.4542	0.17	0.0338
11.39	1676.81	352600.	7.6729	2.86	0.5705
11.95	1700.98	116400.	2.5373	0.95	0.1886
12.97	1746.32	717.	0.0156	0.01	0.0012
13.35	1765.63	2377.	0.0517	0.02	0.0038
13.64	1778.17	2395.	0.0521	0.02	0.0039
14.19	1801.45	88240.	1.9202	0.72	0.1428
14.89	1834.37	71160.	1.5485	0.58	0.1151
15.59	1865.78	43940.	0.9562	0.36	0.0711
16.09	1887.37	77100.	1.6778	0.62	0.1247
16.46	1903.36	224100.	4.8766	1.82	0.3626
18.17	1981.16	155170.	3.3761	1.26	0.2509
18.72	2005.37	120200.	2.6157	0.97	0.1945
19.55	2044.87	1460.	0.0318	0.01	0.0024
20.05	2067.87	16850.	0.3667	0.14	0.0273
20.44	2085.41	162200.	3.5296	1.31	0.2624
20.95	2108.96	39150.	0.8519	0.32	0.0633
21.89	2154.09	53970.	1.1744	0.44	0.0873
22.12	2165.38	111800.	2.4329	0.91	0.1809
22.63	2189.09	31300.	0.6811	0.25	0.0506
23.06	2209.73	3992.	0.0869	0.03	0.0065
23.75	2244.40	64520.	1.4040	0.52	0.1044
24.69	2290.04	268300.	5.8385	2.17	0.4341
25.11	2311.03	73120.	1.5912	0.59	0.1183
26.32	2372.84	253000.	5.5055	2.05	0.4093
26.71	2392.16	561000.	12.2079	4.53	0.9076
27.37	2417.86	49150.	1.0695	0.40	0.0795
28.64	2473.37	1076000.	23.4147	8.72	1.7409
30.13	2536.11	262100.	6.1388	2.29	0.4564
30.51	2596.74	1123000.	24.4375	9.10	1.8169
31.73	2666.53	14990.	0.3262	0.12	0.0243
32.13	2688.91	476500.	10.3691	3.86	0.7709
33.17	2750.34	150500.	3.2750	1.22	0.2435
33.89	2792.48	64060.	1.3940	0.52	0.1036
34.26	2816.78	295300.	6.4260	2.39	0.4778
35.17	2873.26	144100.	3.1357	1.17	0.2331
35.49	2899.32	74880.	1.6295	0.61	0.1211
36.17	2932.32	240900.	5.2422	1.95	0.3898
36.53	2955.31	120700.	2.6265	0.98	0.1953
37.57	3022.09	170500.	3.7168	1.38	0.2763

38.25	3066.69	236900.	5.1552	1.92	0.3833
38.99	3115.38	279000.	6.0713	2.26	0.4514
39.68	3160.98	658600.	14.3317	5.34	1.0656
40.27	3199.35	1321000.	28.7462	10.71	2.1373
40.94	3250.09	972400.	21.1603	7.88	1.5733
41.69	3312.69	658800.	14.3361	5.34	1.0659
42.42	3349.73	39660.	0.8630	0.32	0.0642
43.22	3405.46	479400.	10.4322	3.89	0.7756

COTTER/MEYERS II OF II

SAMPLE NUMBER: 88 BLM NUMBER: 58

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 30 SAMPLE WEIGHT: 13.450 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 5.018

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.05	1402.64	1663.	0.1284	0.19	0.0095
6.31	1501.66	3056.	0.2359	0.35	0.0175
6.59	1524.29	1782.	0.1376	0.20	0.0102
7.66	1603.15	4457.	0.3440	0.51	0.0256
8.46	1662.83	2638.	0.2036	0.30	0.0151
9.05	1703.88	6094.	0.4704	0.70	0.0350
9.42	1731.97	4783.	0.3692	0.55	0.0275
9.95	1770.34	2955.	0.2281	0.34	0.0170
10.42	1803.14	8345.	0.6442	0.95	0.0479
10.85	1836.22	8232.	0.6354	0.94	0.0472
11.34	1872.34	767.	0.0592	0.09	0.0044
11.77	1903.24	4983.	0.3847	0.57	0.0286
12.26	1942.05	12488.	0.9640	1.43	0.0717
12.53	1962.77	6433.	0.4966	0.74	0.0369
13.08	2004.15	91293.	7.0471	10.44	0.5240
13.58	2044.79	49952.	3.8559	5.71	0.2867
14.29	2100.00	2514.	0.1941	0.29	0.0144
14.49	2116.97	1522.	0.1175	0.17	0.0087
14.72	2136.19	26293.	2.0296	3.01	0.1509
14.89	2150.21	27461.	2.1198	3.14	0.1576
15.62	2209.64	10534.	0.8131	1.20	0.0605
15.79	2224.40	8832.	0.6818	1.01	0.0507
16.16	2255.99	109568.	8.4578	12.53	0.6288
16.88	2314.15	88873.	6.8603	10.16	0.5101
17.49	2358.53	86716.	6.6938	9.92	0.4977
17.92	2388.89	162894.	12.5742	18.63	0.9349
19.12	2462.95	52749.	4.0718	6.03	0.3027
19.55	2487.98	63911.	4.9335	7.31	0.3668
20.85	2553.41	15609.	1.2049	1.79	0.0896
21.93	0.0	6910.	0.5334	0.79	0.0397

COTTER/MEYERS U OF M

SAMPLE NUMBER: 89

BLM CODE: II-S-3 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 56 SAMPLE WEIGHT: 0.393 GRAMS

ISP/N-ALK: 0.011 BRANCHED/NORMAL: 0.796

ODD/EVEN: 1.074 ODD/EVEN ≤20: 1.317 ODD/EVEN >20: 0.885

N-ALK/ALL: 0.557 N-ALK/C16: 36.80 N-ALK (≤20/>20): 0.34

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.48

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 147.330

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.34	0.0	6139.	0.0947	0.16	0.2409
4.53	1314.18	2133.	0.0329	0.06	0.0837
5.77	1398.79	18510.	0.2856	0.49	0.7265
6.63	1451.56	3203.	0.0494	0.09	0.1257
6.87	1465.09	5827.	0.0899	0.16	0.2287
7.51	1498.99	33150.	0.5116	0.88	1.3011
8.67	1560.39	441100.	6.8071	11.75	17.3120
9.28	1589.51	63020.	0.9725	1.68	2.4734
9.47	1598.19	56790.	0.8764	1.51	2.2289
10.59	1652.55	21510.	0.3319	0.57	0.8442
11.12	1676.41	80280.	1.2389	2.14	3.1508
11.62	1697.90	112600.	1.7377	3.00	4.4193
12.33	1731.72	6408.	0.0989	0.17	0.2515
12.69	1748.32	1350.	0.0208	0.04	0.0530
13.83	1797.92	49970.	0.7711	1.33	1.9612
14.17	1813.94	23920.	0.3691	0.64	0.9388
14.67	1837.31	23440.	0.3617	0.62	0.9200
15.25	1863.44	3211.	0.0496	0.09	0.1260
15.49	1873.97	951.	0.0147	0.03	0.0373
16.07	1898.74	26080.	0.4025	0.69	1.0236
16.61	1924.14	10070.	0.1554	0.27	0.3952
17.71	1973.78	63230.	0.9758	1.68	2.4816
18.27	1997.88	48670.	0.7511	1.30	1.9102
18.91	2028.44	1188.	0.0183	0.03	0.0466
19.73	2066.52	12710.	0.1961	0.34	0.4988
20.11	2083.64	12300.	0.1898	0.33	0.4827
20.44	2098.24	16110.	0.2486	0.43	0.6323
21.43	2146.45	3260.	0.0503	0.09	0.1279
21.96	2171.48	8964.	0.1383	0.24	0.3518
22.53	2197.73	46160.	0.7123	1.23	1.8117
23.39	2240.94	25910.	0.3998	0.69	1.0169
23.97	2269.39	18290.	0.2823	0.49	0.7178
24.57	2298.11	142100.	2.1929	3.79	5.5771
25.99	2371.20	21860.	0.3373	0.58	0.8579
26.53	2398.03	310600.	4.7932	8.27	12.1902
27.99	2475.38	26180.	0.4040	0.70	1.0275
28.43	2497.96	434800.	6.7099	11.58	17.0648
29.63	2565.14	43120.	0.6654	1.15	1.6923
30.25	2598.92	367600.	5.6728	9.79	14.4274
31.43	2666.91	5712.	0.0881	0.15	0.2242
32.01	2699.45	215800.	3.3302	5.75	8.4696

32.89	2751.82	9434.	0.1456	0.25	0.3703
33.24	2772.29	5260.	0.0812	0.14	0.2064
33.95	2814.32	547300.	8.4460	14.58	21.4801
35.31	2897.02	82140.	1.2676	2.19	3.2238
35.85	2931.68	11170.	0.1724	0.30	0.4384
36.91	2998.75	30960.	0.4778	0.82	1.2151
37.33	3026.54	1452.	0.0224	0.04	0.0570
37.95	3067.11	2815.	0.0434	0.07	0.1105
38.42	3097.43	40210.	0.6205	1.07	1.5781
38.87	3128.27	22030.	0.3400	0.59	0.8646
39.92	3199.33	23590.	0.3640	0.63	0.9258
40.32	3226.88	23460.	0.3620	0.62	0.9207
41.37	3298.00	33900.	0.5231	0.90	1.3305
41.79	3328.00	62160.	0.9593	1.66	2.4396
42.81	0.0	43790.	0.6758	1.17	1.7186

COTTER/MEYERS U OF M

SAMPLE NUMBER: 89

BLM CODE: II-S-3 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 41 SAMPLE WEIGHT: 0.393 GRAMS

ISP/N-ALK: 0.013 BRANCHED/NORMAL: 1.660

ODD/EVEN: 1.004 ODD/EVEN ≤20: 0.582 ODD/EVEN >20: 0.997

N-ALK/ALL: 0.376 N-ALK/C16: 34.38 N-ALK(≤20/>20): 0.25

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.36

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 214.078

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.64	0.0	2988.	0.1033	0.12	0.2627
4.17	0.0	1798.	0.0622	0.07	0.1581
4.72	0.0	6789.	0.2347	0.28	0.5969
5.07	1429.82	5634.	0.1948	0.23	0.4953
5.32	1451.15	3437.	0.1188	0.14	0.3022
5.94	1500.00	11631.	0.4021	0.48	1.0226
6.25	1525.01	2714.	0.0938	0.11	0.2386
6.62	1553.28	821.	0.0284	0.03	0.0722
6.81	1567.19	850.	0.0294	0.03	0.0747
7.26	1598.65	26627.	0.9205	1.09	2.3410
7.95	1651.06	49627.	1.7156	2.04	4.3631
8.62	1697.99	48242.	1.6677	1.98	4.2413
9.08	1733.22	6732.	0.2327	0.28	0.5919
9.31	1750.35	13965.	0.4828	0.57	1.2278
9.53	1766.35	11668.	0.4034	0.48	1.0258
9.99	1798.63	32560.	1.1256	1.34	2.8626
10.67	1850.82	8277.	0.2861	0.34	0.7277
10.97	1872.89	5840.	0.2019	0.24	0.5134
11.33	1898.60	17136.	0.5924	0.70	1.5066
11.66	1924.85	21112.	0.7298	0.87	1.8561
12.07	1956.72	18507.	0.6398	0.76	1.6271
12.47	1986.78	8875.	0.3068	0.36	0.7803
12.67	2001.67	73056.	2.5255	3.00	6.4229
13.33	2055.15	8455.	0.2923	0.35	0.7433
13.92	2100.86	26745.	0.9246	1.10	2.3514
14.43	2144.00	17596.	0.6083	0.72	1.5470
14.72	2167.86	15715.	0.5433	0.65	1.3816
15.12	2200.00	78284.	2.7062	3.21	6.8826
15.66	2247.47	54479.	1.8833	2.24	4.7897
16.26	2298.34	144347.	4.9900	5.93	12.6907
16.91	2349.79	31728.	1.0968	1.30	2.7895
17.42	2388.76	470924.	16.2795	19.34	41.4026
18.31	2449.10	49043.	1.6954	2.01	4.3118
19.08	2498.13	252147.	8.7165	10.36	22.1682
20.07	2551.20	57606.	1.9914	2.37	5.0646
21.00	2598.51	204702.	7.0764	8.41	17.9969
22.12	0.0	8270.	0.2859	0.34	0.7271
23.39	0.0	147255.	5.0905	6.05	12.9463
26.37	0.0	47477.	1.6412	1.95	4.1741
30.13	0.0	33291.	1.1508	1.37	2.9269
38.81	0.0	408037.	14.1056	16.76	35.8737

SAMPLE NUMBER: 69 BLM NUMBER: II-S-3

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 44 SAMPLE WEIGHT: 0.393 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 773.258

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.73	1385.48	4144.	0.3740	0.12	0.9513
6.74	1446.95	1510.	0.1363	0.04	0.3466
7.11	1467.64	3227.	0.2913	0.10	0.7408
8.96	1563.60	289000.	26.0858	8.58	66.3424
9.82	1603.57	2578.	0.2327	0.08	0.5918
10.87	1654.34	7894.	0.7125	0.23	1.8121
11.41	1678.57	215000.	19.4064	6.38	49.3551
12.14	1711.19	27100.	2.4461	0.80	6.2210
12.43	1725.00	14710.	1.3278	0.44	3.3768
13.85	1788.29	25550.	2.3062	0.76	5.8652
14.21	1803.84	59700.	5.3887	1.77	13.7047
14.59	1821.77	51840.	4.6792	1.54	11.9003
14.91	1836.51	60900.	5.4973	1.81	13.9861
15.63	1868.56	16810.	1.5173	0.50	3.8589
16.16	1888.70	62220.	5.6161	1.85	14.2831
16.61	1911.44	152600.	13.7741	4.53	35.0306
16.87	1923.66	319000.	28.7937	9.47	73.2292
17.87	1968.94	212900.	19.2169	6.32	48.8730
18.73	2006.83	97100.	8.7645	2.88	22.2901
19.55	2040.81	58620.	5.2912	1.74	13.4567
23.74	2244.40	68040.	6.1415	2.02	15.6192
24.09	2261.60	249900.	22.5566	7.42	57.3667
24.58	2285.27	52610.	4.7478	1.56	12.0748
25.15	2313.71	66760.	6.0259	1.98	15.3253
26.32	2373.70	14220.	1.2835	0.42	3.2643
27.36	2427.52	5098.	0.4602	0.15	1.1703
27.61	2440.82	3413.	0.3081	0.10	0.7835
28.52	2488.25	6938.	0.6262	0.21	1.5927
28.93	2510.22	51360.	4.6359	1.52	11.7901
30.55	2599.46	6812.	0.6149	0.20	1.5615
32.25	2696.66	3060.	0.2762	0.09	0.7024
33.14	2749.47	24190.	2.1834	0.72	5.5530
34.29	2817.41	185000.	16.6995	5.49	42.4683
35.57	2895.23	15830.	1.4289	0.47	3.6339
36.15	2932.12	6678.	0.6028	0.20	1.5330
36.59	2960.02	1168.	0.1054	0.03	0.2679
37.69	3030.69	23220.	2.0959	0.69	5.3304
38.66	3094.19	18860.	1.7023	0.56	4.3295
39.13	3129.73	16940.	1.5293	0.50	3.8867
39.56	3154.47	25670.	2.3170	0.76	5.8928
40.81	3238.78	39420.	3.5581	1.17	9.0492
42.42	3349.73	489100.	44.1474	14.52	112.2771
43.16	3400.76	195300.	17.6263	5.80	44.8328
43.55	3430.17	116500.	10.5156	3.46	26.7436

COTTER/MEYERS U OF M

SAMPLE NUMBER: 89 BLM NUMBER: II-S-3

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 23 SAMPLE WEIGHT: 0.393 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 268.408

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.35	1428.23	1450.	0.1318	0.12	0.3351
6.61	1525.87	2344.	0.2130	0.20	0.5418
9.07	1705.43	1356.	0.1232	0.12	0.3134
9.98	1772.45	1058.	0.0962	0.09	0.2445
10.88	1838.48	1293.	0.1175	0.11	0.2989
11.36	1873.79	1806.	0.1641	0.16	0.4174
12.28	1943.60	4315.	0.3922	0.37	0.9973
12.69	1974.84	25489.	2.3165	2.19	5.8913
13.09	2004.98	88618.	8.0537	7.63	20.4825
13.58	2044.79	16201.	1.4724	1.40	3.7446
13.97	2075.47	44488.	4.0431	3.83	10.2826
14.75	2138.68	36017.	3.2733	3.10	8.3247
14.90	2151.02	56595.	5.1434	4.87	13.0809
15.38	2189.73	41004.	3.7265	3.53	9.4773
15.89	2233.01	128033.	11.6358	11.03	29.5925
16.20	2259.36	24821.	2.2558	2.14	5.7369
16.38	2274.43	181317.	16.4783	15.61	41.9082
17.63	2368.49	180347.	16.3901	15.53	41.6840
17.94	2390.28	242348.	22.0249	20.87	56.0144
18.57	2430.10	29737.	2.7025	2.56	6.8732
19.00	2455.86	30058.	2.7317	2.59	6.9474
19.87	2505.52	16437.	1.4938	1.42	3.7991
20.50	2536.57	6143.	0.5583	0.53	1.4198

COTTER/MEYERS U OF M

SAMPLE NUMBER: SC BLM NUMBER: II-S-4

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 58 SAMPLE WEIGHT: 0.384 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 371.814

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.69	1307.77	2892.	0.0387	0.03	0.1159
5.77	1385.47	1839.	0.0254	0.02	0.0761
6.76	1443.33	12370.	0.1666	0.13	0.4993
7.14	1466.41	11170.	0.1542	0.12	0.4621
7.61	1498.99	2027.	0.0280	0.02	0.0838
7.86	1513.90	1671.	0.0231	0.02	0.0691
8.15	1529.68	1074.	0.0148	0.01	0.0444
8.92	1562.42	572830.	7.8999	6.37	23.6738
9.57	1589.89	12980.	0.1792	0.14	0.5369
10.91	1653.64	30840.	0.4257	0.34	1.2757
11.23	1666.76	20320.	0.2805	0.23	0.8406
11.44	1677.36	422730.	5.8349	4.70	17.4854
12.17	1709.74	222480.	3.0708	2.47	9.1938
13.91	1788.29	25730.	0.3552	0.29	1.0643
14.29	1804.33	55090.	0.7605	0.61	2.2789
14.66	1822.32	55170.	0.7616	0.61	2.2822
14.95	1835.74	191200.	2.6393	2.13	7.9092
15.65	1867.53	117400.	1.6206	1.31	4.8564
15.15	1888.64	124200.	1.7144	1.38	5.1377
16.66	1911.39	177900.	2.4557	1.98	7.3590
16.95	1924.95	165000.	2.2779	1.84	6.8254
17.35	1943.26	86900.	1.1996	0.97	3.5947
17.85	1965.57	593300.	8.1898	6.60	24.5424
18.39	1988.98	73500.	1.0146	0.82	3.0404
18.81	2007.93	120000.	1.6565	1.34	4.9639
19.58	2044.60	230100.	3.1763	2.56	9.5183
19.95	2061.76	459200.	6.3387	5.11	18.9953
20.47	2085.34	186400.	2.5730	2.07	7.7106
21.03	2111.36	160100.	2.2100	1.78	6.6227
22.13	2164.15	274300.	3.7864	3.05	11.3467
23.05	2207.21	26640.	0.3677	0.30	1.1020
23.78	2244.11	354300.	4.8907	3.94	14.6560
24.62	2285.19	148200.	2.0457	1.65	6.1304
25.19	2313.71	181300.	2.5026	2.02	7.4997
26.35	2373.20	76060.	1.0499	0.85	3.1463
27.33	2426.45	2438.	0.0337	0.03	0.1009
27.67	2441.88	11860.	0.1637	0.13	0.4906
28.61	2490.81	16980.	0.2344	0.19	0.7024
28.97	2510.22	154400.	2.1313	1.72	6.3869
29.57	2549.36	3445.	0.0476	0.04	0.1425
30.59	2599.46	8140.	0.1124	0.09	0.3367
31.05	2626.25	2628.	0.0363	0.03	0.1087
32.25	2694.43	19550.	0.2699	0.22	0.8087
33.21	2751.52	25670.	0.3543	0.29	1.0619
34.31	2816.89	951800.	13.1385	10.59	39.3721
35.56	2893.40	140100.	1.9339	1.56	5.7954
36.13	2932.55	150400.	2.0761	1.67	6.2214
36.75	2968.40	202800.	2.7997	2.25	8.3897
38.99	2993.32	176400.	2.4356	1.96	7.2979
37.69	3027.86	369200.	5.0964	4.11	15.2723
38.27	3064.46	137000.	1.8911	1.52	5.6671

39.21	3128.57	714430.	9.8615	7.05	29.5518
40.33	3203.48	311730.	4.3027	3.47	12.8938
40.69	3228.44	20970.	0.2895	0.23	0.8674
41.23	3265.47	2554.	0.0353	0.03	0.1056
42.13	3327.61	283430.	3.9120	3.15	11.7231
43.17	3401.00	48500.	0.6695	0.54	2.0063
43.51	3425.30	38120.	0.5262	0.42	1.5769

COTTER/MEYERS U OF M

SAMPLE NUMBER: 90

BLM CODE: II-S-4 SAMPLING DATE:

FRACTION: PET ETHER CCLUMN TYPE: FFAP

NUMBER OF PEAKS: 40 SAMPLE WEIGHT: 0.334 GRAMS

ISP/N-ALK: C.036 BRANCHED/NORMAL: 1.632

ODD/EVEN: 1.090 CDD/EVEN ≤20: 0.465 ODD/EVEN >20: 1.197

N-ALK/ALL: C.380 N-ALK/C16: 36.13 N-ALK(≤20/>20): 0.25

PRIS/PHYT: 1.74 PRIS/C17: 0.67 PHYT/C18: 0.36

MICPCGRAMS OF HYDROCARBON PER GRAM CF SAMPLE: 264.088

RT	PI	AREA	UG/PEAK	PCT	UG/G
4.72	0.0	7193.	0.2410	0.27	0.7222
5.08	1430.70	6123.	0.2051	0.23	0.6147
5.34	1452.81	1759.	0.0589	0.07	0.1766
5.95	1500.83	12320.	0.4128	0.47	1.2369
6.26	1525.79	2743.	0.0919	0.10	0.2754
6.62	1553.28	758.	0.0254	0.03	0.0761
6.81	1567.19	913.	0.0306	0.03	0.0917
7.26	1598.65	27655.	0.9265	1.05	2.7765
8.04	1657.59	22939.	0.7685	0.87	2.3031
8.63	1698.66	34404.	1.1526	1.31	3.4541
9.10	1734.73	7451.	0.2496	0.28	0.7481
9.31	1750.35	12314.	0.4126	0.47	1.2363
9.53	1766.35	13167.	0.4411	0.50	1.3220
9.99	1798.63	37056.	1.2415	1.41	3.7204
10.68	1851.57	21537.	0.7216	0.82	2.1623
10.95	1871.44	14275.	0.4783	0.54	1.4332
11.33	1898.60	27029.	0.9056	1.03	2.7137
11.66	1924.85	35072.	1.1750	1.33	3.5212
12.06	1955.95	39510.	1.3237	1.50	3.9668
12.46	1986.04	18392.	0.6162	0.70	1.8465
12.66	2000.83	93881.	3.1453	3.57	9.4256
13.07	2034.40	21973.	0.7362	0.84	2.2061
13.31	2053.56	38193.	1.2796	1.45	3.8345
13.89	2098.49	55831.	1.8705	2.12	5.6054
14.43	2144.00	51597.	1.7287	1.96	5.1803
14.71	2167.04	36304.	1.2163	1.38	3.6449
15.11	2199.21	114163.	3.8248	4.34	11.4619
15.74	2254.37	91317.	3.0594	3.47	9.1681
16.26	2298.34	203605.	6.8214	7.74	20.4417
16.90	2349.02	47454.	1.5899	1.80	4.7643
17.41	2388.01	517094.	17.3243	19.66	51.9157
18.31	2449.10	70762.	2.3707	2.69	7.1044
19.07	2497.51	233118.	7.8102	8.86	23.4048
20.08	2551.72	68541.	2.2963	2.61	6.8814
20.98	2597.51	160165.	5.3660	6.09	16.0804
22.11	0.0	5977.	0.2002	0.23	0.6001
23.36	0.0	121741.	4.0787	4.63	12.2227
26.34	0.0	34771.	1.1649	1.32	3.4910
30.09	0.0	31870.	1.0677	1.21	3.1997
38.74	0.0	289421.	9.6965	11.00	29.0576

SAMPLE NUMBER: 90 BLM NUMBER: II-S-4

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 28 SAMPLE WEIGHT: 0.334 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 210.689

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.08	1425.35	2734.	0.1409	0.20	0.4223
6.13	1507.48	848.	0.0437	0.06	0.1310
6.36	1526.12	5383.	0.2775	0.39	0.8314
8.82	1707.04	1901.	0.0980	0.14	0.2936
9.18	1734.48	1957.	0.1009	0.14	0.3023
10.15	1803.94	818.	0.0422	0.06	0.1263
10.61	1839.27	2330.	0.1201	0.17	0.3599
11.09	1874.54	3558.	0.1834	0.26	0.5496
11.99	1942.85	2815.	0.1451	0.21	0.4348
12.29	1965.83	1973.	0.1017	0.14	0.3047
12.83	2006.64	120688.	6.2205	8.85	18.6410
13.32	2046.41	12575.	0.6481	0.92	1.9423
13.72	2077.81	62250.	3.2085	4.56	9.6149
14.48	2139.83	71045.	3.6618	5.21	10.9733
15.11	2191.24	241131.	12.4284	17.68	37.2441
15.65	2238.25	133184.	6.8646	9.76	20.5711
15.94	2263.46	22961.	1.1835	1.68	3.5465
16.14	2280.57	24226.	1.2487	1.78	3.7418
16.30	2294.12	60300.	3.1080	4.42	9.3137
16.62	2319.40	21066.	1.0858	1.54	3.2538
17.05	2352.10	30509.	1.5725	2.24	4.7123
17.61	2393.48	478716.	24.6740	35.09	73.9405
17.98	2418.14	11020.	0.5680	0.81	1.7021
18.21	2432.82	20839.	1.0741	1.53	3.2187
18.63	2459.17	19285.	0.9940	1.41	2.9787
19.18	2492.79	2484.	0.1280	0.18	0.3837
20.80	2577.76	4312.	0.2222	0.32	0.6660
21.37	0.0	3169.	0.1633	0.23	0.4895

COTTER/MEYERS U OF M

SAMPLE NUMBER: 90

BLM CODE: II-S-4 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: CV 101

NUMBER OF PEAKS: 62 SAMPLE WEIGHT: 0.334 GRAMS

ISP/N-ALK: 0.008 BRANCHED/NORMAL: 0.794

ODD/EVEN: 1.289 ODD/EVEN ≤20: 1.617 ODD/EVEN >20: 1.122

N-ALK/ALL: 0.557 N-ALK/C16: 29.72 N-ALK(≤20/>20): 0.48

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.34

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 198.412

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.34	0.0	12280.	0.1079	0.16	0.3233
4.50	1311.86	5822.	0.0512	0.08	0.1533
5.05	1352.18	1315.	0.0116	0.02	0.0346
5.55	1385.20	1805.	0.0159	0.02	0.0475
5.77	1398.79	33740.	0.2964	0.45	0.8883
6.29	1431.52	1000.	0.0088	0.01	0.0263
6.65	1452.70	13490.	0.1185	0.18	0.3552
6.87	1465.09	25160.	0.2211	0.33	0.6624
7.51	1498.99	73040.	0.6417	0.97	1.9231
8.10	1531.26	1094.	0.0096	0.01	0.0288
8.67	1560.39	854400.	7.5068	11.34	22.4955
9.49	1599.10	141300.	1.2415	1.88	3.7203
10.60	1653.02	84240.	0.7401	1.12	2.2180
11.11	1675.97	259300.	2.2782	3.44	6.8271
11.63	1698.32	331600.	2.9134	4.40	8.7307
12.33	1731.72	94720.	0.8322	1.26	2.4939
12.71	1749.22	64120.	0.5634	0.85	1.6882
13.85	1798.75	100900.	0.8865	1.34	2.6566
14.18	1814.41	33880.	0.2977	0.45	0.8920
14.68	1837.77	34790.	0.3057	0.46	0.9160
15.24	1863.00	55530.	0.4879	0.74	1.4621
15.61	1879.17	54040.	0.4748	0.72	1.4228
16.07	1898.74	68840.	0.6048	0.91	1.8125
16.61	1924.14	39080.	0.3434	0.52	1.0289
17.13	1948.01	8024.	0.0705	0.11	0.2113
17.83	1979.01	116600.	1.0244	1.55	3.0700
18.28	1998.31	114500.	1.0060	1.52	3.0147
18.91	2028.44	20480.	0.1799	0.27	0.5392
19.73	2066.52	27830.	0.2445	0.37	0.7327
20.11	2083.64	32130.	0.2823	0.43	0.8460
20.45	2098.68	57530.	0.5055	0.76	1.5147
21.47	2148.36	6169.	0.0542	0.08	0.1624
21.97	2171.94	20470.	0.1798	0.27	0.5390
22.55	2198.64	156000.	1.3706	2.07	4.1073
23.41	2241.93	55980.	0.4918	0.74	1.4739
24.01	2271.33	59720.	0.5247	0.79	1.5724
24.59	2299.05	405800.	3.5654	5.38	10.6843
26.00	2371.70	44680.	0.3926	0.59	1.1764
26.55	2399.02	562300.	4.9404	7.46	14.8048
27.23	2435.52	1571.	0.0138	0.02	0.0414
28.00	2475.90	52830.	0.4642	0.70	1.3910

28.45	2498.98	647800.	5.6916	8.60	17.0559
29.28	2545.76	6820.	0.0599	0.09	0.1796
29.66	2566.79	57520.	0.5054	0.76	1.5144
30.26	2599.46	517200.	4.5441	6.86	13.6174
32.02	2700.00	470900.	4.1373	6.25	12.3983
32.86	2750.06	58990.	0.5183	0.78	1.5531
33.25	2772.87	59110.	0.5193	0.78	1.5563
33.95	2814.32	790000.	6.9409	10.48	20.7999
34.79	2865.78	69260.	0.6085	0.92	1.8235
35.33	2898.22	165500.	1.4541	2.20	4.3575
35.85	2931.68	18130.	0.1593	0.24	0.4773
36.91	2998.75	89540.	0.7867	1.19	2.3575
37.33	3026.54	28350.	0.2491	0.38	0.7464
37.95	3067.11	8604.	0.0756	0.11	0.2265
38.42	3097.43	80120.	0.7039	1.06	2.1095
38.89	3129.64	35590.	0.3127	0.47	0.9371
39.91	3198.66	49050.	0.4310	0.65	1.2914
40.32	3226.88	43150.	0.3791	0.57	1.1361
41.35	3296.66	63340.	0.5565	0.84	1.6677
41.78	3327.28	78300.	0.6879	1.04	2.0616
42.78	3397.90	70520.	0.6196	0.94	1.8567

COTTER/MEYERS U OF M

SAMPLE NUMBER: 91

BLM CODE: II-S-6 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 9 SAMPLE WEIGHT: 0.099 GRAMS

ISP/N-ALK: 0.0 BRANCHED/NORMAL: 10.289

ODD/EVEN: 0.542 ODD/EVEN ≤20: 0.542 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.089 N-ALK/C16: 3.73 N-ALK (≤20/>20): 0.0

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: NONE

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 49.002

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.01	0.0	777.	0.0107	0.22	0.1082
3.25	0.0	311200.	4.3000	88.46	43.3468
7.58	1502.83	3663.	0.0506	1.04	0.5102
8.93	1573.04	6283.	0.0868	1.79	0.8752
9.55	1602.05	8350.	0.1154	2.37	1.1631
11.31	1684.69	2378.	0.0329	0.68	0.3312
11.69	1700.99	6156.	0.0851	1.75	0.8575
13.91	1801.45	8840.	0.1221	2.51	1.2313
16.15	1902.40	4154.	0.0574	1.18	0.5786

COTTER/MEYERS U OF M

SAMPLE NUMBER: 91

BLM CODE: II-S-6 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 11 SAMPLE WEIGHT: 0.099 GRAMS

ISP/N-ALK: 0.146 BRANCHED/NORMAL: 0.343

ODD/EVEN: 0.624 ODD/EVEN ≤20: 0.645 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.744 N-ALK/C16: 13.05 N-ALK (≤20/>20): 0.73

PRIS/PHYT: 1.51 PRIS/C17: 0.51 PHYT/C18: 0.28

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 15.678

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.75	0.0	0.	0.0	0.0	0.0
5.94	1500.00	923.	0.0501	3.22	0.5053
7.26	1598.65	1634.	0.0887	5.71	0.8945
8.05	1658.31	1877.	0.1019	6.55	1.0275
8.62	1697.99	3663.	0.1989	12.79	2.0052
9.53	1766.35	1241.	0.0674	4.33	0.6793
9.99	1798.63	4402.	0.2390	15.37	2.4097
11.33	1898.60	2211.	0.1201	7.72	1.2103
12.66	2000.83	4507.	0.2447	15.74	2.4672
15.11	2199.21	3982.	0.2162	13.90	2.1798
17.44	2390.26	4200.	0.2281	14.66	2.2992

COTTER/MEYERS U OF M

SAMPLE NUMBER: 91 BLM NUMBER: II-S-6

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: 57 SAMPLE WEIGHT: 0.099 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 1594.551

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.09	0.0	54850.	0.5880	0.04	5.9275
4.67	1310.06	32920.	0.3529	0.02	3.5576
5.09	1340.77	1174.	0.0126	0.00	0.1269
5.51	1366.39	23219.	0.2488	0.02	2.5082
6.02	1400.64	20500.	0.2198	0.01	2.2154
7.15	1466.95	30580.	0.3278	0.02	3.3047
7.60	1490.48	5093.	0.0546	0.00	0.5504
7.97	1509.95	148600.	1.5929	0.10	16.0671
9.01	1563.38	244200.	2.6179	0.17	26.3899
9.49	1586.00	44080.	0.4725	0.03	4.7636
9.82	1601.02	84140.	0.9020	0.06	9.0927
11.45	1677.79	1836000.	19.6823	1.24	198.4104
12.17	1709.74	1839000.	19.7145	1.25	198.7346
13.29	1761.49	44040.	0.4721	0.03	4.7593
13.87	1786.59	172400.	1.8482	0.12	18.6307
14.42	1811.02	326600.	3.5012	0.22	35.2946
14.97	1836.66	604400.	6.4793	0.41	65.3155
16.17	1889.49	1298000.	13.9148	0.88	140.2706
17.01	1927.72	47830000.	512.7480	32.42	5168.8281
17.47	1948.67	1498000.	16.0653	1.01	161.9435
17.99	1971.71	2834000.	30.3811	1.92	306.2610
18.91	2012.69	724600.	7.7679	0.49	78.3051
19.41	2036.61	307800.	3.2997	0.21	33.2629
20.04	2065.86	2776000.	29.7593	1.88	299.9929
20.59	2090.76	12370000.	132.6091	8.38	1336.7852
21.22	2120.69	15960000.	171.0947	10.82	1724.7449
21.93	2154.75	158300.	1.6970	0.11	17.1069
22.19	2166.95	290900.	3.1185	0.20	31.4366
22.51	2181.77	425600.	4.5625	0.29	45.9932
23.16	2212.85	494400.	5.3001	0.34	53.4282
23.77	2243.61	227100.	2.4346	0.15	24.5419
24.14	2261.89	392700.	4.2098	0.27	42.4378
24.64	2286.15	2107000.	22.5875	1.43	227.6965
25.31	2319.47	11760000.	126.0698	7.97	1270.8645
26.16	2358.57	149300.	1.5973	0.10	16.1019
26.49	2373.21	220700.	2.3660	0.15	23.8503
27.39	2416.99	4494000.	48.1767	3.05	485.6516
28.11	2446.99	481600.	5.1650	0.33	52.0665
28.53	2466.71	1735000.	18.5996	1.18	187.4957
29.03	2513.62	2141000.	22.9520	1.45	231.3707
29.76	2554.34	184500.	1.9779	0.13	19.9383
30.35	2614.63	277700.	2.9770	0.19	30.0101
32.17	2683.97	207200.	2.2212	0.14	22.3914
32.62	2716.32	1700000.	18.2244	1.15	183.7133
33.33	2758.61	43860.	0.4702	0.03	4.7398
34.31	2816.89	1550000.	16.6163	1.05	167.5033
35.98	2918.84	4580000.	49.0986	3.10	494.9453
36.54	2955.26	172000.	1.8439	0.12	18.5875
37.55	3019.27	2883000.	30.9064	1.95	311.5562
39.09	3120.44	4520000.	48.4554	3.06	488.4614
39.61	3154.83	733000.	7.8579	0.50	79.2129

40.39	3207.66	1678000.	17.9885	1.14	161.3359
41.03	3255.24	433300.	4.6451	0.29	46.8253
41.97	3316.31	2487000.	26.6612	1.69	268.7617
42.51	3354.26	6400000.	68.6094	4.34	691.6270
43.29	3408.95	2235000.	23.9597	1.51	241.5291
43.89	3453.33	1277000.	13.6897	0.87	138.0012

COTTER/MEYERS U OF M

SAMPLE NUMBER: 91 BLM NUMBER: II-S-6

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 34 SAMPLE WEIGHT: 0.099 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 13105.363

RI	RI	AREA	UG/PEAK	PCT	UG/G
4.88	1408.03	1630.	0.1185	0.01	1.1949
6.10	1505.00	4044.	0.2941	0.02	2.9646
6.36	1526.12	3153.	0.2293	0.02	2.3114
7.44	1606.33	11186.	0.8135	0.06	8.2003
8.24	1666.16	2637.	0.1918	0.01	1.9332
8.43	1679.52	6063.	0.4409	0.03	4.4447
8.81	1706.26	7193.	0.5231	0.04	5.2731
10.30	1815.63	23304.	1.6947	0.13	17.0839
10.80	1853.41	4343.	0.3158	0.02	3.1838
11.68	1918.50	2589.	0.1883	0.01	1.8980

SAMPLE NUMBER: 92

BLM CODE: 51-B SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 44 SAMPLE WEIGHT: 0.556 GRAMS

ISP/N-ALK: 0.103 BRANCHED/NORMAL: 2.578

ODD/EVEN: 1.457 CDD/EVEN ≤20: 1.387 ODD/EVEN >20: 1.619

N-ALK/ALL: 0.279 N-ALK/C16: 12.83 N-ALK (≤20/>20): 1.61

PRIS/PHYT: 3.48 PRIS/C17: 0.64 PHYT/C18: 0.31

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 31.602

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.35	0.0	7476.	0.0444	0.25	0.0799
4.56	1316.49	1896.	0.0113	0.06	0.0203
5.07	1353.56	696.	0.0041	0.02	0.0073
5.78	1399.40	17550.	0.1043	0.59	0.1876
6.70	1455.55	3965.	0.0236	0.13	0.0424
6.88	1465.64	14100.	0.0838	0.48	0.1508
7.52	1499.49	36640.	0.2177	1.24	0.3918
8.77	1565.30	68780.	0.4086	2.33	0.7354
9.50	1599.55	64400.	0.3826	2.18	0.6886
10.63	1654.40	46640.	0.2771	1.58	0.4987
11.15	1677.73	97180.	0.5773	3.29	1.0391
11.64	1698.74	103300.	0.6137	3.49	1.1045
11.85	1708.83	65900.	0.3915	2.23	0.7046
12.34	1732.19	119300.	0.7087	4.04	1.2756
13.14	1768.41	5399.	0.0321	0.18	0.0577
13.85	1798.75	60590.	0.3599	2.05	0.6478
14.15	1812.98	18950.	0.1126	0.64	0.2026
14.69	1838.23	372900.	2.2152	12.62	3.9871
15.23	1862.56	440900.	2.6192	14.92	4.7142
15.63	1880.03	730000.	4.3366	24.70	7.8053
16.08	1899.16	48080.	0.2856	1.63	0.5141
17.79	1977.27	20380.	0.1211	0.69	0.2179
18.29	1998.73	38150.	0.2266	1.29	0.4079
19.74	2066.98	10750.	0.0639	0.36	0.1149
20.45	2098.68	7214.	0.0429	0.24	0.0771
21.36	2143.10	2914.	0.0173	0.10	0.0312
22.56	2199.09	24930.	0.1481	0.84	0.2666
23.41	2241.93	10110.	0.0601	0.34	0.1081
24.01	2271.33	14740.	0.0876	0.50	0.1576
24.59	2299.05	9556.	0.0568	0.32	0.1022
26.53	2398.03	30780.	0.1829	1.04	0.3291
28.01	2476.41	17460.	0.1037	0.59	0.1867
28.45	2498.98	42260.	0.2510	1.43	0.4519
30.24	2598.38	34380.	0.2042	1.16	0.3676
31.97	2697.22	57880.	0.3438	1.96	0.6189
33.72	2800.00	16860.	0.1002	0.57	0.1803
33.95	2814.32	58230.	0.3459	1.97	0.6226
35.31	2897.02	61640.	0.3662	2.09	0.6591
36.87	2996.25	56460.	0.3354	1.91	0.6037
38.44	3098.71	86780.	0.5155	2.94	0.9279
39.93	3200.00	8386.	0.0498	0.28	0.0897

41.35	3296.66	17360.	0.1031	0.59	0.1856
41.80	3328.71	946.	0.0056	0.03	0.0101
42.76	3396.51	2865.	0.0170	0.10	0.0306

COTTER/MEYERS U OF M

SAMPLE NUMBER: 92

BLM CODE: 51-B SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 22 SAMPLE WEIGHT: 0.556 GRAMS

ISP/N-ALK: 0.167 BRANCHED/NORMAL: 5.305

ODD/EVEN: 0.583 ODD/EVEN ≤20: 0.645 ODD/EVEN >20: 0.578

N-ALK/ALL: 0.159 N-ALK/C16: 6.58 N-ALK(≤20/>20): 1.64

PRIS/PHYT: 1.20 PRIS/C17: 0.54 PHYT/C18: 0.40

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 28.498

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.74	0.0	3616.	0.0945	0.60	0.1701
5.96	1501.65	5849.	0.1529	0.97	0.2751
7.28	1600.00	14612.	0.3819	2.41	0.6873
8.07	1659.75	8750.	0.2287	1.44	0.4116
8.65	1700.00	16303.	0.4260	2.69	0.7668
9.32	1751.09	19822.	0.5180	3.27	0.9323
9.55	1767.78	7291.	0.1905	1.20	0.3429
10.01	1800.00	18244.	0.4768	3.01	0.8581
10.69	1852.31	2873.	0.0751	0.47	0.1351
11.35	1900.00	9634.	0.2518	1.59	0.4531
11.69	1927.22	101285.	2.6469	16.72	4.7640
12.09	1958.25	121627.	3.1785	20.07	5.7208
12.48	1987.52	212700.	5.5585	35.11	10.0045
13.92	2100.86	6068.	0.1586	1.00	0.2854
14.45	2145.66	1774.	0.0464	0.29	0.0834
15.16	2203.57	11511.	0.3008	1.90	0.5414
16.28	2300.00	4312.	0.1127	0.71	0.2028
16.93	2351.34	2333.	0.0610	0.39	0.1097
17.17	2369.80	1670.	0.0436	0.28	0.0785
17.45	2391.02	21577.	0.5639	3.56	1.0149
19.09	2498.75	9563.	0.2499	1.58	0.4498
21.05	0.0	4463.	0.1166	0.74	0.2099

COTTER/MEYERS U OF M

SAMPLE NUMBER: 92 BLM NUMBER: 51-B

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: [illegible] SAMPLE WEIGHT: [illegible] GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 26.771

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.21	[illegible]	9182.	0.1621	0.12	0.2917
4.56	1301.57	2959.	0.0522	0.04	0.0940
5.47	1366.44	47120.	0.8316	0.61	1.4968
6.14	1401.92	14380.	0.2538	0.19	0.4568
7.15	1466.95	20260.	0.3576	0.26	0.6436
7.61	1498.99	756.	0.0133	0.01	0.0240
7.83	1502.23	9282.	0.1638	0.12	0.2948
8.01	1512.13	11960.	0.2111	0.16	0.3799
9.00	1562.00	591600.	10.4410	7.71	18.7923
9.59	1588.74	29520.	0.5210	0.38	0.9377
9.82	1601.02	38120.	0.6728	0.50	1.2109
10.94	1655.62	4358.	0.0769	0.06	0.1384
11.45	1677.79	604300.	10.6662	7.87	19.1957
12.14	1711.76	157400.	2.7779	2.05	4.9999
13.27	1760.65	35270.	0.6225	0.46	1.1204
13.93	1784.90	58080.	1.0250	0.76	1.8449
14.43	1810.06	115700.	2.0420	1.51	3.6752
14.95	1835.74	58610.	1.0345	0.78	1.8935
16.11	1886.96	207000.	3.6533	2.70	6.5754
16.65	1911.02	724200.	12.7812	9.44	23.0044
17.77	1962.65	48150.	0.8498	0.63	1.5295
18.26	1983.41	58420.	1.0309	0.77	1.8716
18.65	2009.78	70440.	1.2432	0.92	2.2375
19.21	2027.12	9184.	0.1621	0.12	0.2917
20.01	2064.65	15090.	0.2663	0.20	0.4793
20.44	2084.63	267100.	4.7140	3.48	8.4845
21.13	2111.38	236000.	4.1810	3.09	7.5252
21.62	2140.02	1341.	0.0237	0.02	0.0426
22.15	2165.08	1894.	0.0334	0.02	0.0602
22.81	2195.67	1843.	0.0325	0.24	0.5851
23.81	2245.40	3307.	0.0584	0.44	1.0504
24.12	2260.91	19544.	0.3449	0.25	0.6207
24.64	2286.15	15070.	0.2660	0.20	0.4787
25.21	2314.76	10770.	0.1901	0.14	0.3421
26.35	2373.20	22960.	0.4052	0.30	0.7293
26.81	2396.00	7980.	0.1408	0.10	0.2535
27.77	2447.17	6008.	0.1060	0.08	0.1908
28.97	2510.22	188900.	3.3339	2.46	6.0005
29.71	2551.59	5365.	0.0947	0.07	0.1704
30.54	2598.93	13410.	0.2367	0.17	0.4260
32.26	2684.99	35180.	0.6209	0.46	1.1175
32.61	2715.72	31040.	0.5478	0.40	0.9860
34.01	2738.27	6466.	0.1141	0.08	0.2054
34.53	2826.70	6199.	0.1094	0.08	0.1969
35.58	2894.60	29710.	0.5243	0.39	0.9437
36.21	2934.46	17740.	0.3131	0.23	0.5635
36.55	2955.89	26390.	0.4658	0.34	0.8383
37.25	2994.39	8936.	0.1577	0.12	0.2839
37.73	3031.15	12520.	0.2210	0.16	0.3977
38.79	3100.61	7962.	0.1405	0.10	0.2529
39.23	3124.92	62380.	1.0956	0.81	1.9720

39.70	3161.52	106200.	1.8743	1.38	3.3735
40.31	3202.00	950400.	15.0085	11.08	27.0132
40.74	3231.89	123800.	2.1849	1.61	3.9325
41.04	3252.50	203200.	3.5962	2.65	6.4547
41.97	3316.31	749000.	13.2189	9.76	23.7922
42.39	3345.87	476700.	8.4132	6.21	15.1425
43.21	3402.99	426800.	7.5325	5.56	13.5574
43.51	3425.38	701400.	12.3789	9.14	22.2802

COTTER/MYERS U OF F

SAMPLE NUMBER: 92 BLM NUMBER: 51-B

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 30 SAMPLE WEIGHT: 0.556 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 121.847

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.86	1400.90	999.	0.0861	0.13	0.1549
5.07	1419.35	3654.	0.3148	0.46	0.5666
6.10	1500.00	1478.	0.1273	0.19	0.2292
6.37	1522.11	5906.	0.5088	0.75	0.9157
7.42	1600.00	3058.	0.2634	0.39	0.4742
8.20	1658.60	1095.	0.0943	0.14	0.1698
8.44	1675.51	1203.	0.1036	0.15	0.1865
8.80	1700.00	3380.	0.2912	0.43	0.5241
9.87	1779.31	5976.	0.5148	0.76	0.9266
10.29	1809.41	5226.	0.4502	0.67	0.8103
10.59	1832.47	569.	0.0490	0.07	0.0882
10.82	1849.70	1809.	0.1558	0.23	0.2805
11.33	1886.66	1743.	0.1502	0.22	0.2703
12.27	1958.56	10535.	0.9076	1.34	1.6335
12.82	1999.28	165729.	14.2772	21.09	25.6968
13.36	2042.89	29320.	2.5258	3.73	4.5462
13.89	2084.10	5051.	0.4351	0.64	0.7832
14.29	2116.13	14036.	1.2092	1.79	2.1763
14.46	2130.38	11693.	1.0073	1.49	1.8130
14.63	2144.47	18711.	1.6119	2.38	2.9012
15.53	2218.50	153689.	13.2400	19.56	23.8300
15.84	2245.35	68877.	5.9336	8.76	10.6796
16.75	2320.02	5997.	0.5166	0.76	0.9299
17.13	2348.74	14669.	1.2637	1.87	2.2745
17.57	2381.20	131522.	11.3303	16.74	20.3929
18.19	2422.99	43984.	3.7891	5.60	6.8199
18.59	2448.00	57718.	4.9723	7.34	8.9494
19.43	2498.82	10958.	0.9440	1.39	1.6991
20.35	2546.44	3841.	0.3309	0.49	0.5956
20.81	2569.38	3412.	0.2939	0.43	0.5290

COTTER/MEYERS U OF M

SAMPLE NUMBER: 93

BLM CODE: 51-D-1 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 47 SAMPLE WEIGHT: 0.488 GRAMS

ISP/N-ALK: 0.043 BRANCHED/NORMAL: 2.134

ODD/EVEN: 3.387 CDD/EVEN ≤20: 1.179 ODD/EVEN >20: 11.171

N-ALK/ALL: 0.319 N-ALK/C16: 26.04 N-ALK(≤20/>20): 1.10

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.52

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 18.302

RT	RI	AREA	UG/PEAK	PCT	UG/G
7.55	1501.14	4238.	0.0196	0.22	0.0403
8.82	1567.73	33300.	0.1544	1.73	0.3164
9.53	1601.03	23610.	0.1095	1.23	0.2243
10.64	1654.86	11560.	0.0536	0.60	0.1098
11.21	1680.35	22710.	0.1053	1.18	0.2158
11.66	1699.58	93040.	0.4313	4.83	0.8839
12.36	1733.12	62930.	0.2918	3.27	0.5979
13.19	1770.60	9874.	0.0458	0.51	0.0938
13.87	1799.58	50460.	0.2339	2.62	0.4794
14.19	1814.89	26380.	0.1223	1.37	0.2506
14.71	1839.14	192700.	0.8934	10.00	1.8307
15.25	1863.44	205600.	0.9532	10.67	1.9532
15.64	1880.46	284500.	1.3190	14.77	2.7028
16.09	1899.58	43520.	0.2018	2.26	0.4135
16.68	1927.40	4791.	0.0222	0.25	0.0455
17.75	1975.53	99800.	0.4627	5.18	0.9481
18.31	1999.58	45340.	0.2102	2.35	0.4307
18.90	2027.97	6818.	0.0316	0.35	0.0648
19.66	2063.34	3298.	0.0153	0.17	0.0313
20.13	2084.53	5460.	0.0253	0.28	0.0519
20.49	2100.50	289.	0.0013	0.02	0.0027
20.72	2111.93	13700.	0.0635	0.71	0.1302
22.01	2173.81	1790.	0.0083	0.09	0.0170
22.57	2199.55	6928.	0.0321	0.36	0.0658
23.43	2242.92	17130.	0.0794	0.89	0.1627
24.00	2270.84	9874.	0.0458	0.51	0.0938
24.84	2312.14	40780.	0.1891	2.12	0.3874
26.03	2373.20	7254.	0.0336	0.38	0.0689
26.54	2398.52	6398.	0.0297	0.33	0.0608
28.05	2478.48	3646.	0.0169	0.19	0.0346
28.62	2508.57	33010.	0.1530	1.71	0.3136
30.24	2598.38	16030.	0.0743	0.83	0.1523
31.79	2687.17	867.	0.0040	0.05	0.0082
33.97	2815.56	93940.	0.4355	4.88	0.8925
34.70	2860.33	11250.	0.0522	0.58	0.1069
35.34	2898.81	239800.	1.1117	12.45	2.2782
35.83	2930.40	1407.	0.0065	0.07	0.0134
37.01	3005.33	30570.	0.1417	1.59	0.2904
38.46	3100.00	64140.	0.2974	3.33	0.6093
39.91	3198.66	2604.	0.0121	0.14	0.0247
40.54	3241.94	33070.	0.1533	1.72	0.3142

41.36	3297.33	14580.	0.0676	0.76	0.1385
41.79	3328.00	16670.	0.0773	0.87	0.1584
42.10	3350.07	18830.	0.0873	0.98	0.1789
42.79	3398.60	3714.	0.0172	0.19	0.0353
43.15	0.0	5649.	0.0262	0.29	0.0537
43.71	0.0	2623.	0.0122	0.14	0.0249

COTTER/MEYERS U OF M

SAMPLE NUMBER: 93

BLM CODE: 51-D-1 SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 18 SAMPLE WEIGHT: 0.488 GRAMS

ISP/N-ALK: 0.204 BRANCHED/NORMAL: 3.629

ODD/EVEN: 0.664 ODD/EVEN ≤20: 0.922 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.216 N-ALK/C16: 25.10 N-ALK (≤20/>20): 2.38

PRIS/PHYT: 1.01 PRIS/C17: 0.53 PHYT/C18: 0.54

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 10.081

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.76	0.0	0.	0.0	0.0	0.0
7.29	1600.80	1025.	0.0424	0.86	0.0868
8.07	1659.75	2643.	0.1092	2.22	0.2238
8.65	1700.00	5001.	0.2066	4.20	0.4234
9.32	1751.09	7056.	0.2915	5.93	0.5974
9.55	1767.78	2607.	0.1077	2.19	0.2207
10.01	1800.00	4827.	0.1994	4.05	0.4087
11.35	1900.00	3385.	0.1399	2.84	0.2866
11.68	1926.43	19205.	0.7935	16.13	1.6260
12.08	1957.48	21868.	0.9035	18.37	1.8515
12.48	1987.52	25709.	1.0622	21.59	2.1767
12.68	2002.50	7789.	0.3218	6.54	0.6595
13.94	2102.58	2702.	0.1116	2.27	0.2288
15.23	2209.81	6770.	0.2797	5.69	0.5732
16.29	2300.81	995.	0.0411	0.84	0.0842
17.16	2369.04	2059.	0.0851	1.73	0.1743
17.45	2391.02	3699.	0.1528	3.11	0.3132
17.98	2427.46	1727.	0.0714	1.45	0.1462

COTTER/MEYERS U OF M

SAMPLE NUMBER: 93 BLM NUMBER: 51-D-1

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 54 SAMPLE WEIGHT: 0.486 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 4026.825

RT	[illegible]	AREA	UG/PEAK	PCT	UG/G
[illegible]	.0	[illegible]	[illegible]	0.02	0.8293
[illegible]	.0	[illegible]	[illegible]	[illegible]	1.0661
[illegible]	[illegible]	[illegible]	1.[illegible]	[illegible]	2.1928
5.47	1[illegible].44	[illegible]	[illegible]	[illegible]	0.6316
5.77	1[illegible].47	17[illegible]	0.[illegible]	0.01	0.4011
[illegible]	1[illegible].56	[illegible]	0.[illegible]	0.02	0.6964
6.74	1444.19	19961.	0.2237	0.01	0.4585
7.17	1468.03	20570.	0.2303	0.01	0.4726
7.60	1490.46	6345.	0.0711	0.00	0.1456
8.00	1511.59	127000.	1.4221	0.07	2.9142
9.01	1563.38	1590000.	17.8047	0.91	36.4850
9.57	1589.65	87340.	0.9780	0.05	2.0042
9.85	1602.58	45520.	0.5097	0.03	1.0445
[illegible]	1[illegible].47	22980.	0.2573	0.01	0.5273
11.47	1678.67	831400.	9.3099	0.47	19.0778
12.19	171[illegible].72	2964000.	33.1906	1.69	68.0135
13.07	1751.67	92860.	1.0398	0.05	2.1308
13.36	1764.57	123500.	1.3829	0.07	2.8339
13.69	1778.92	437600.	4.9002	0.25	10.0414
14.43	1811.49	505200.	5.6572	0.29	11.5926
14.94	1837.57	514100.	5.7568	0.29	11.7968
16.22	1891.60	3127000.	35.0159	1.78	71.7538
17.01	1927.72	46553000.	521.2629	26.53	1068.1616
17.48	1949.12	1741000.	19.4956	0.99	39.9459
18.28	1983.41	2914000.	32.6307	1.66	66.8662
18.92	2013.17	1347000.	15.0836	0.77	30.9090
19.41	2036.61	153200.	1.7155	0.09	3.5154
20.02	2064.97	1329000.	14.8820	0.76	30.4960
20.61	2091.59	12780[illegible].	143.1094	7.28	293.2568
21.42	213[illegible].49	4342000[illegible].	486.2134	24.74	996.3389
22.[illegible]1	2159.52	1480[illegible]0.	16.5729	0.84	33.9609
22.52	2182.23	1826[illegible].	20.3802	1.04	41.7627
23.19	2214.38	1316[illegible].	14.7365	0.75	30.1976
23.75	2242.[illegible]1	1657[illegible].	18.5549	0.94	38.0224
24.[illegible]8	2258.[illegible]6	[illegible]13[illegible].	10.2259	0.52	20.9548
24.69	2284.[illegible]3	5373[illegible].	[illegible]6.1664	3.16	123.2918
25.27	2312.[illegible]1	8122[illegible].	[illegible]0.8297	4.57	184.0772
26.[illegible]3	2357.[illegible]5	611[illegible].	6.8486	0.35	14.0341
26.53	2382.19	815200.	9.1283	0.46	18.7056
27.44	2423.[illegible]6	6743[illegible].	75.5635	3.85	154.8433
28.56	2487.74	1990[illegible].	22.2838	1.13	45.6636
29.[illegible]8	2516.44	4525[illegible].	50.6706	2.58	103.8331
29.85	2559.[illegible]3	1[illegible]13[illegible].	11.3435	0.58	23.2448
30.35	2586.55	744800.	8.3402	0.42	17.0906
30.[illegible]9	2616.96	259700.	2.9081	0.15	5.9592
35.57	2894.[illegible]0	1985[illegible].	22.2279	1.13	45.5489
38.[illegible]5	3052.13	1207[illegible].	13.5159	0.69	27.6965
39.29	3133.[illegible]8	2699[illegible].	30.2232	1.54	61.9327
40.37	3206.27	585[illegible].	6.5508	0.33	13.4237
40.76	3233.27	197[illegible].	2.2127	0.11	4.5342
41.[illegible]8	3255.24	412[illegible].	4.6203	0.24	9.4677

42.57	3358.45	8604000.	96.3469	4.90	197.4321
43.33	3411.93	1452000.	16.2594	1.83	33.3184
43.89	3453.33	79900.	0.8947	0.05	1.8334

COTTLE/MEYERS U OF N

SAMPLE NUMBER: 93 BLM NUMBER: 51-D-1

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 37 SAMPLE WEIGHT: 0.488 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 4043.403

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.87	1483.24	2914.	0.2067	0.01	0.4236
6.19	1507.48	2546.	0.1806	0.01	0.3701
6.40	1524.51	13821.	0.9805	0.05	2.0091
7.70	1621.72	8941.	0.6343	0.03	1.2997
8.48	1678.28	939.	0.0666	0.00	0.1365
8.86	1704.70	8198.	0.5816	0.03	1.1917
9.22	1732.22	5425.	0.3849	0.02	0.7886
9.92	1782.80	686.	0.0487	0.00	0.0997
10.35	1814.08	25032.	1.7758	0.09	3.6389
10.65	1837.00	4168.	0.2957	0.01	0.6059
11.12	1871.65	4465.	0.3167	0.02	0.6491
11.40	1891.60	3549.	0.2518	0.01	0.5159
11.74	1917.56	6932.	0.4918	0.02	1.0077
12.04	1940.99	10061.	0.7137	0.04	1.4626
12.34	1963.84	19437.	1.3789	0.07	2.8255
13.07	2019.64	778546.	55.2302	2.80	113.1766
13.52	2055.50	67803.	4.8100	0.24	9.8565
13.79	2076.45	184425.	13.0831	0.66	26.8097
14.37	2122.86	66303.	4.7035	0.24	9.6384
14.53	2136.20	87170.	6.1839	0.31	12.6718
14.70	2150.22	44836.	3.1807	0.16	6.5178
15.02	2176.17	35624.	2.5272	0.13	5.1786
15.33	2200.89	108858.	7.7224	0.39	15.8246
15.75	2237.61	10617946.	753.2388	38.17	1543.5220
16.02	2260.71	889086.	63.0719	3.20	129.2457
16.22	2277.57	381908.	27.0926	1.37	55.5177
16.46	2297.53	110393.	7.8313	0.40	16.0477
16.84	2326.88	444693.	31.5466	1.60	64.6447
17.23	2356.19	171323.	12.1537	0.62	24.9051
17.66	2387.74	509281.	36.1285	1.83	74.0338
18.51	2443.04	9445257.	670.0481	33.96	1373.0493
18.85	2463.97	2755264.	195.4589	9.91	400.5305
19.22	2486.32	131030.	9.2953	0.47	19.0477
19.57	2506.31	268997.	19.0827	0.97	39.1039
20.13	2535.28	330267.	23.4292	1.19	48.0107
20.84	2570.86	175751.	12.4678	0.63	25.5488
21.57	2605.42	92861.	6.5876	0.33	13.4991

COTTER/MEYERS U OF M

SAMPLE NUMBER: 94

BLM CODE: 63-A SAMPLING DATE:

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 40 SAMPLE WEIGHT: 0.345 GRAMS

ISP/N-ALK: 0.053 BRANCHED/NORMAL: 1.269

ODD/EVEN: 1.172 ODD/EVEN ≤20: 1.550 ODD/EVEN >20: 0.994

N-ALK/ALL: 0.441 N-ALK/C16: 8.33 N-ALK (≤20/>20): 3.48

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.48

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 56.377

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.35	0.0	2572.	0.0364	0.19	0.1053
5.79	1400.00	9736.	0.1376	0.71	0.3986
6.89	1466.20	5134.	0.0726	0.37	0.2102
7.52	1499.49	42400.	0.5992	3.08	1.7359
8.79	1566.28	57670.	0.8151	4.19	2.3611
9.50	1599.55	72860.	1.0297	5.29	2.9830
10.63	1654.40	17800.	0.2516	1.29	0.7288
11.21	1680.35	9704.	0.1371	0.70	0.3973
11.64	1698.74	141000.	1.9928	10.24	5.7728
12.34	1732.19	53610.	0.7577	3.89	2.1949
12.70	1748.77	487.	0.0069	0.04	0.0199
13.17	1769.72	128700.	1.8189	9.35	5.2692
13.86	1799.17	66800.	0.9441	4.85	2.7349
14.17	1813.94	32220.	0.4554	2.34	1.3191
14.72	1839.60	10560.	0.1492	0.77	0.4323
15.45	1872.22	100000.	1.4133	7.26	4.0942
16.09	1899.58	41480.	0.5862	3.01	1.6983
17.71	1973.78	263500.	3.7241	19.14	10.7882
18.29	1998.73	44050.	0.6226	3.20	1.8035
18.90	2027.97	8110.	0.1146	0.59	0.3320
19.95	2076.47	11630.	0.1644	0.84	0.4762
20.47	2099.56	10820.	0.1529	0.79	0.4430
22.08	2177.06	8346.	0.1180	0.61	0.3417
22.56	2199.09	12920.	0.1826	0.94	0.5290
23.43	2242.92	10920.	0.1543	0.79	0.4471
24.06	2273.74	1987.	0.0281	0.14	0.0814
24.60	2299.53	5430.	0.0767	0.39	0.2223
26.54	2398.52	16810.	0.2376	1.22	0.6882
28.47	2500.00	20580.	0.2909	1.49	0.8426
29.68	2567.89	1812.	0.0256	0.13	0.0742
30.25	2598.92	22470.	0.3176	1.63	0.9200
32.00	2698.89	8742.	0.1236	0.63	0.3579
33.23	2771.70	1215.	0.0172	0.09	0.0497
33.73	2800.62	14090.	0.1991	1.02	0.5769
33.95	2814.32	39420.	0.5571	2.86	1.6139
35.34	2898.81	35680.	0.5043	2.59	1.4608
40.95	3269.77	2668.	0.0377	0.19	0.1092
41.37	3298.00	21360.	0.3019	1.55	0.8745
41.79	3328.00	1958.	0.0277	0.14	0.0802
42.75	3395.81	19760.	0.2793	1.44	0.8090

SAMPLE NUMBER: 94 BIM NUMBER: 63-A

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 31 SAMPLE WEIGHT: 0.345 GRAMS

ISP/N-ALK: 0.183 BRANCHED/NORMAL: 1.964

ODD/EVEN: 0.442 ODD/EVEN ≤20: 0.536 ODD/EVEN >20: 0.0

N-ALK/ALL: 0.337 N-ALK/C16: 8.79 N-ALK (≤20/>20): 2.55

PRIS/PHYT: 2.02 PRIS/C17: 0.70 PHYT/C18: 0.46

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 58.671

RT	RI	AREA	UG/PEAK	PCT	UG/G
2.79	0.0	0.	0.0	0.0	0.0
3.69	0.0	614.	0.0268	0.13	0.0777
4.77	0.0	2019.	0.0882	0.44	0.2555
5.14	1432.56	1255.	0.0548	0.27	0.1588
6.00	1500.00	8057.	0.3520	1.74	1.0196
6.68	1553.62	643.	0.0281	0.14	0.0814
7.33	1600.00	17788.	0.7771	3.84	2.2511
8.12	1660.14	19112.	0.8349	4.12	2.4186
8.69	1700.00	27414.	1.1976	5.91	3.4692
9.37	1751.82	24530.	1.0716	5.29	3.1042
9.60	1768.49	9452.	0.4129	2.04	1.1961
10.06	1800.79	20375.	0.8901	4.39	2.5784
10.73	1851.95	5216.	0.2279	1.13	0.6601
11.39	1899.30	12789.	0.5587	2.76	1.6184
11.74	1927.22	6897.	0.3013	1.49	0.8728
12.12	1956.71	6738.	0.2943	1.45	0.8527
12.70	2000.00	51900.	2.2672	11.19	6.5679
13.40	2057.15	4888.	0.2135	1.05	0.6186
14.01	2105.16	28953.	1.2648	6.24	3.6640
14.51	2147.32	852.	0.0372	0.18	0.1078
15.28	2210.61	75038.	3.2780	16.19	9.4960
15.86	2260.72	7163.	0.3129	1.55	0.9065
16.33	2300.00	6403.	0.2797	1.38	0.8103
16.52	2315.22	8561.	0.3740	1.85	1.0834
16.97	2350.56	1561.	0.0682	0.34	0.1975
17.23	2370.56	558.	0.0244	0.12	0.0706
17.50	2391.01	14473.	0.6322	3.12	1.8315
18.47	2455.88	3867.	0.1689	0.83	0.4894
19.14	2498.14	11710.	0.5115	2.53	1.4819
21.15	0.0	3482.	0.1521	0.75	0.4406
39.24	0.0	81312.	3.5521	17.54	10.2900

COTTER/MEYERS U OF M

SAMPLE NUMBER: 34 BLM NUMBER: 63-A

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: 72 SAMPLE WEIGHT: 0.345 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 3139.607

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.23	[illegible]	346[illegible].	0.4204	0.04	1.2179
4.37	[illegible]	41620.	0.5048	0.05	1.4625
4.57	1302.35	31640.	0.3717	0.03	1.0766
4.89	1326.48	3086.	0.0374	0.00	0.1084
5.15	1344.94	3143.	0.0381	0.00	0.1104
5.55	1371.61	29040.	0.3522	0.03	1.0204
5.75	1384.23	30420.	0.3690	0.03	1.0689
6.05	1402.56	23765.	0.2882	0.03	0.8349
6.49	1429.62	2298.	0.0279	0.00	0.0807
6.73	1443.62	8736.	0.1060	0.01	0.3070
6.92	1454.39	2134.	0.0259	0.00	0.0750
7.14	1466.41	17120.	0.2077	0.02	0.6016
7.69	1490.48	3153.	0.0382	0.00	0.1108
7.84	1502.79	20520.	0.2489	0.02	0.7210
8.02	1512.68	15350.	0.1862	0.02	0.5394
9.01	1563.38	1324000.	16.0598	1.48	46.5232
9.54	1586.29	75520.	0.9160	0.08	2.6536
9.83	1601.53	60800.	0.7375	0.07	2.1364
10.95	1655.47	26900.	0.3263	0.03	0.9452
11.45	1678.23	843000.	10.2254	0.94	29.6216
12.18	1710.22	489700.	5.9399	0.55	17.2072
13.07	1751.67	27930.	0.3388	0.03	0.9814
13.37	1765.01	49880.	0.6050	0.06	1.7527
13.84	1785.32	59400.	0.7205	0.07	2.0872
14.24	1802.41	956800.	11.6058	1.07	33.6204
14.95	1835.74	458900.	5.5663	0.51	16.1250
16.15	1888.64	833800.	10.1138	0.93	29.2934
16.63	1919.37	23630000.	286.6262	26.45	830.3191
17.39	1945.07	184710.	2.2404	0.21	6.4901
17.92	1968.65	328500.	3.9846	0.37	11.5429
18.24	1982.55	695600.	8.4375	0.78	24.4422
18.79	2006.85	1183000.	14.3495	1.32	41.5687
19.38	2035.19	79560.	0.9650	0.09	2.7956
19.91	2059.92	1189000.	14.4223	1.33	41.7795
20.49	2086.24	2723000.	33.0293	3.05	95.6817
21.12	2115.80	9528000.	115.5723	10.66	334.7981
21.85	2151.45	112700.	1.3670	0.13	3.9601
22.44	2178.55	469800.	5.6986	0.53	16.5080
23.14	2211.82	539300.	6.5416	0.60	18.9501
23.74	2242.12	566600.	6.8727	0.63	19.9094
24.24	2259.98	473200.	5.7398	0.53	16.6275
24.63	2285.67	771400.	9.3569	0.86	27.1057
25.18	2313.16	2610000.	31.6587	2.92	91.7111
26.33	2372.19	513500.	6.2286	0.57	18.0435
27.64	2440.29	1449000.	17.5760	1.62	50.9155
28.51	2485.66	496600.	6.0236	0.56	17.4497
29.09	2511.92	992000.	12.0327	1.11	34.8572
29.75	2553.80	188200.	2.2829	0.21	6.6130
30.52	2599.71	99580.	1.2866	0.10	3.1477
30.86	2615.21	148600.	1.8025	0.17	5.2216
32.24	2683.87	573500.	6.9564	0.64	20.1518

32.60	2715.11	594900.	7.2160	0.67	20.9038
33.17	2749.16	5385[illegible].	6.5319	0.60	18.9220
33.69	2781.33	247[illegible].	2.9960	0.28	8.6792
34.31	2816.[illegible]	5[illegible].	7.4962	0.69	21.7155
34.93	2858.24	29[illegible].	3.5261	0.33	10.2147
35.53	2891.[illegible]	[illegible].	9.7645	0.90	28.2864
35.95	2917.92	2813[illegible].	3.4121	0.31	9.8844
36.19	2932.59	3579[illegible].	4.3412	0.40	12.5760
36.58	2957.76	213[illegible].	2.5885	0.24	7.4985
36.83	2973.38	413[illegible].	5.0727	0.47	14.6949
37.54	3018.[illegible]	12[illegible].	14.6406	1.35	42.4120
38.41	3075.54	1[illegible].	13.0759	1.21	37.8791
39.12	3122.48	1[illegible].	13.0031	1.20	37.6683
39.71	3162.19	1252[illegible].	15.1865	1.40	43.9932
40.33	3203.48	1892[illegible].	22.9495	2.12	66.4817
40.75	3232.58	354[illegible].	4.3036	0.40	12.4671
41.15	3260.[illegible]	1[illegible].	21.8336	2.01	63.2490
41.82	3305.68	1153[illegible].	13.9856	1.29	40.5145
42.59	3359.84	16[illegible].	194.6826	17.96	563.9705
43.27	3407.46	2519[illegible].	30.5549	2.82	88.5135
43.85	3451.39	16[illegible].	19.4078	1.79	56.2213

COTTER/MAYES U OF M

SAMPLE NUMBER: 94 BLM NUMBER: 63-A

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 33 SAMPLE WEIGHT: 0.345 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 2289.942

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.05	1417.62	11534.	1.0049	0.13	2.9110
5.77	1475.75	2648.	0.2307	0.03	0.6683
6.12	1501.67	2718.	0.2368	0.03	0.6860
6.34	1519.70	22326.	1.9451	0.25	5.6348
7.32	1593.07	617.	0.0538	0.01	0.1557
7.64	1617.13	9280.	0.8085	0.10	2.3421
8.03	1646.32	1812.	0.1579	0.02	0.4573
8.81	1700.78	10866.	0.9467	0.12	2.7424
9.16	1727.71	3293.	0.2869	0.04	0.8311
9.87	1779.31	1830.	0.1594	0.02	0.4619
10.29	1809.41	1504.	0.1310	0.02	0.3796
10.59	1832.47	1711.	0.1491	0.02	0.4318
11.07	1868.03	2923.	0.2547	0.03	0.7377
11.33	1886.66	4800.	0.4182	0.05	1.2115
11.98	1936.35	8657.	0.7542	0.10	2.1849
12.41	1969.10	28208.	2.4576	0.31	7.1193
12.81	1998.55	131187.	11.4295	1.45	33.1098
13.00	2013.95	68379.	5.9574	0.75	17.2579
13.31	2038.91	57072.	4.9723	0.63	14.4042
13.71	2070.28	34777.	3.0299	0.38	8.7773
14.46	2130.38	95626.	8.3313	1.05	24.1347
14.63	2144.47	218853.	19.0673	2.41	55.2356
15.21	2191.32	66758.	5.8162	0.74	16.8488
15.59	2223.74	4542985.	395.8025	50.07	1146.5889
15.90	2250.49	187348.	16.3225	2.06	47.2841
16.12	2269.16	38512.	3.3553	0.42	9.7199
16.62	2310.05	189947.	16.5489	2.09	47.9401
17.18	2352.47	229405.	19.9866	2.53	57.8987
17.55	2379.74	325950.	28.3980	3.59	82.2654
18.22	2424.88	1816524.	158.2626	20.02	458.4663
18.60	2448.61	454750.	39.6196	5.01	114.7728
19.39	2496.45	114280.	9.9565	1.26	28.8427
19.99	2528.11	386086.	33.6373	4.26	97.4429

COTTER/MEYERS U OF M

SAMPLE NUMBER: 95

BLM CODE: V-E-2 (-) SAMPLING DATE: 7-03-75

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 51 SAMPLE WEIGHT: 14.778 GRAMS

ISP/N-ALK: 0.113 BRANCHED/NORMAL: 2.116

ODD/EVEN: 0.584 ODD/EVEN ≤20: 1.111 ODD/EVEN >20: 0.148

N-ALK/ALL: 0.321 N-ALK/C16: 8.69 N-ALK(≤20/>20): 0.97

PRIS/PHYT: 2.17 PRIS/C17: 0.59 PHYT/C18: 0.47

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 3.599

RT	RI	AREA	UG/PEAK	PCT	UG/G
6.43	1436.12	1339.	0.0209	0.04	0.0014
6.77	1455.81	12000.	0.1874	0.35	0.0127
6.98	1467.48	25450.	0.3975	0.75	0.0269
7.62	1501.13	88940.	1.3893	2.61	0.0940
8.30	1537.71	1340.	0.0209	0.04	0.0014
8.81	1563.24	312100.	4.8751	9.17	0.3299
9.60	1600.00	125700.	1.9635	3.69	0.1329
10.73	1655.07	68300.	1.0669	2.01	0.0722
11.26	1678.92	145100.	2.2665	4.26	0.1534
11.76	1700.49	142800.	2.2306	4.19	0.1509
11.95	1709.75	84260.	1.3162	2.47	0.0891
13.05	1760.64	30650.	0.4788	0.90	0.0324
13.97	1800.00	82860.	1.2943	2.43	0.0876
14.29	1815.29	38910.	0.6078	1.14	0.0411
14.81	1839.43	20320.	0.3174	0.60	0.0215
15.36	1864.05	37690.	0.5887	1.11	0.0398
15.73	1880.12	52820.	0.8251	1.55	0.0558
16.20	1900.00	52020.	0.8126	1.53	0.0550
16.78	1927.39	14100.	0.2202	0.41	0.0149
17.96	1980.31	46660.	0.7288	1.37	0.0493
18.41	1999.58	46750.	0.7303	1.37	0.0494
19.03	2029.25	1870.	0.0292	0.05	0.0020
19.40	2046.55	41530.	0.6487	1.22	0.0439
20.20	2082.83	141800.	2.2150	4.16	0.1499
20.75	2107.97	48920.	0.7642	1.44	0.0517
21.47	2143.09	1282.	0.0200	0.04	0.0014
22.66	2198.64	39430.	0.6159	1.16	0.0417
23.55	2243.41	19160.	0.2993	0.56	0.0203
24.15	2272.77	10740.	0.1678	0.32	0.0114
24.73	2300.53	966.	0.0151	0.03	0.0010
23.14	2222.92	19470.	0.3041	0.57	0.0206
23.65	2248.36	47980.	0.7495	1.41	0.0507
28.14	2477.45	24710.	0.3860	0.73	0.0261
28.72	2507.96	57680.	0.9010	1.69	0.0610
29.86	2571.35	40410.	0.6312	1.19	0.0427
30.34	2597.32	36350.	0.5678	1.07	0.0384
31.87	2685.41	49260.	0.7695	1.45	0.0521
32.97	2750.06	13020.	0.2034	0.38	0.0138
34.08	2815.55	612900.	9.5738	18.00	0.6478
34.77	2857.89	7258.	0.1134	0.21	0.0077
35.32	2891.05	52760.	0.8241	1.55	0.0558

35.90	2927.65	18150.	0.2835	0.53	0.0192
37.05	3000.00	389700.	6.0873	11.45	0.4119
38.49	3094.83	35310.	0.5516	1.04	0.0373
39.00	3129.25	15490.	0.2420	0.45	0.0164
39.97	3194.07	13510.	0.2110	0.40	0.0143
40.43	3225.85	21210.	0.3313	0.62	0.0224
41.47	3297.29	37090.	0.5794	1.09	0.0392
41.90	3327.61	75920.	1.1859	2.23	0.0802
42.89	3396.56	50060.	0.7820	1.47	0.0529
43.27	3424.37	50920.	0.7954	1.50	0.0538

COTTER/MEYERS U OF M

SAMPLE NUMBER: 95

BLM CODE: V-E-2 (-) SAMPLING DATE: 7-03-75

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 29 SAMPLE WEIGHT: 14.778 GRAMS

ISP/N-ALK: 0.250 BRANCHED/NORMAL: 1.830

ODD/EVEN: 0.472 ODD/EVEN ≤20: 0.633 ODD/EVEN >20: 0.483

N-ALK/ALL: 0.353 N-ALK/C16: 4.88 N-ALK (≤20/>20): 4.28

PRIS/PHYT: 1.19 PRIS/C17: 0.74 PHYT/C18: 0.77

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 1.043

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.14	1501.08	29975.	0.4105	2.66	0.0278
4.36	1524.13	42659.	0.5842	3.79	0.0395
5.19	1601.92	81475.	1.1157	7.24	0.0755
5.83	1659.82	54080.	0.7406	4.80	0.0501
6.34	1701.82	73545.	1.0071	6.53	0.0681
6.65	1729.28	17371.	0.2379	1.54	0.0161
7.14	1770.17	45302.	0.6204	4.02	0.0420
7.57	1804.31	58949.	0.8073	5.24	0.0546
8.16	1853.12	8046.	0.1102	0.71	0.0075
8.35	1868.09	4926.	0.0675	0.44	0.0046
8.90	1911.21	5058.	0.0693	0.45	0.0047
9.43	1955.28	18526.	0.2537	1.65	0.0172
9.98	1998.47	104846.	1.4358	9.31	0.0972
10.39	2033.76	51655.	0.7074	4.59	0.0479
10.69	2058.88	24966.	0.3419	2.22	0.0231
11.18	2098.42	12946.	0.1773	1.15	0.0120
11.54	2128.48	32973.	0.4515	2.93	0.0306
11.88	2156.13	10695.	0.1465	0.95	0.0099
12.48	2203.51	24885.	0.3408	2.21	0.0231
13.05	2252.40	25262.	0.3459	2.24	0.0234
13.45	2285.45	8038.	0.1101	0.71	0.0074
13.87	2318.48	5449.	0.0746	0.48	0.0050
14.63	2374.97	241372.	3.3054	21.44	0.2237
15.69	2451.83	15923.	0.2181	1.41	0.0148
16.38	2500.00	11092.	0.1519	0.99	0.0103
17.77	2563.81	30983.	0.4243	2.75	0.0287
20.25	2673.38	46591.	0.6380	4.14	0.0432
20.89	0.0	25612.	0.3507	2.28	0.0237
22.96	0.0	12370.	0.1694	1.10	0.0115

COTTER/MEYERS U OF M

SAMPLE NUMBER: 95

BLM CODE: V-E-2 (-) SAMPLING DATE: 7-03-75

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: 68 SAMPLE WEIGHT: 14.778 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 60.017

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.27	0.0	428400.	8.4300	0.95	0.5704
4.41	1304.79	1330.	0.0262	0.00	0.0018
4.54	1314.95	1487.	0.0293	0.00	0.0020
4.86	1338.77	6756.	0.1329	0.01	0.0090
5.59	1387.71	4674.	0.0920	0.01	0.0062
5.89	1406.55	53460.	1.0520	0.12	0.0712
6.57	1448.34	52080.	1.0248	0.12	0.0693
6.91	1467.64	31370.	0.6173	0.07	0.0418
7.59	1503.96	48160.	0.9477	0.11	0.0641
8.74	1564.32	726600.	14.2979	1.61	0.9675
9.62	1606.15	39190.	0.7712	0.09	0.0522
10.65	1656.01	25050.	0.4929	0.06	0.0334
11.17	1679.38	396400.	7.8003	0.88	0.5278
11.89	1711.79	529200.	10.4135	1.17	0.7046
12.54	1742.56	209200.	4.1166	0.46	0.2786
13.35	1778.74	68000.	1.3381	0.15	0.0905
13.65	1791.59	357600.	7.0368	0.79	0.4762
13.92	1803.39	308300.	6.0667	0.68	0.4105
14.33	1822.92	192900.	3.7959	0.43	0.2569
14.63	1836.85	334700.	6.5862	0.74	0.4457
15.47	1874.40	122500.	2.4105	0.27	0.1631
15.82	1889.45	240900.	4.7404	0.53	0.3208
16.33	1912.40	1473000.	28.9855	3.27	1.9614
17.04	1945.29	244000.	4.8014	0.54	0.3249
17.57	1968.96	770800.	15.1677	1.71	1.0263
18.47	2008.77	1195000.	23.5150	2.65	1.5912
18.95	2031.76	154500.	3.0402	0.34	0.2057
19.85	2073.32	580600.	11.4250	1.29	0.7731
20.17	2087.65	965800.	19.0049	2.14	1.2860
20.73	2113.98	2249000.	44.2555	4.99	2.9946
21.31	2142.33	347400.	6.8361	0.77	0.4626
21.81	2166.17	480000.	9.4454	1.06	0.6391
22.28	2188.08	240900.	4.7404	0.53	0.3208
22.49	2197.72	237900.	4.6814	0.53	0.3168
22.85	2215.84	582000.	11.4525	1.29	0.7750
23.80	2263.08	1387000.	27.2932	3.08	1.8468
24.27	2285.76	2010000.	39.5525	4.46	2.6764
24.85	2314.69	862600.	16.9741	1.91	1.1486
25.72	2359.31	297600.	5.8561	0.66	0.3963
26.07	2376.83	557900.	10.9783	1.24	0.7429
26.83	2415.80	355200.	6.9896	0.79	0.4730
27.24	2437.84	243000.	4.7817	0.54	0.3236
27.71	2462.71	307600.	6.0529	0.68	0.4096
28.67	2513.55	1928000.	37.9389	4.28	2.5672
29.45	2556.80	179800.	3.5381	0.40	0.2394
29.83	2577.47	150400.	2.9596	0.33	0.2003
30.23	2598.93	763000.	15.0142	1.69	1.0160
30.49	2614.21	231200.	4.5495	0.51	0.3079
31.44	2669.38	342700.	6.7436	0.76	0.4563

31.93	2697.18	934400.	18.3870	2.07	1.2442
32.27	2717.33	699200.	13.7588	1.55	0.9310
32.88	2753.28	381900.	7.5150	0.85	0.5085
33.22	2773.03	520800.	10.2482	1.16	0.6935
34.01	2820.00	3770000.	74.1856	8.36	5.0199
34.93	2876.50	4302000.	84.6542	9.54	5.7283
35.93	2939.13	794800.	15.6400	1.76	1.0583
36.65	2984.46	500100.	9.8409	1.11	0.6659
37.37	3031.35	596200.	11.7319	1.32	0.7939
37.77	3057.73	436700.	8.5933	0.97	0.5815
37.96	3070.16	330700.	6.5075	0.73	0.4403
38.31	3092.90	469200.	9.2329	1.04	0.6248
38.88	3131.28	1297000.	25.5222	2.88	1.7270
39.46	3170.20	860400.	16.9308	1.91	1.1457
40.11	3214.01	1104000.	21.7244	2.45	1.4700
41.07	3280.29	1011000.	19.8943	2.24	1.3462
41.83	3333.02	1252000.	24.6367	2.78	1.6671
42.36	3369.81	1023000.	20.1304	2.27	1.3622
42.86	3404.65	1475000.	29.0249	3.27	1.9640

COTTER/MEYERS U OF M

SAMPLE NUMBER: 95

BLM CODE: V-E-2 (-) SAMPLING DATE: 7-03-75

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 51 SAMPLE WEIGHT: 14.778 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 29.625

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.08	0.0	1243.	0.0948	0.02	0.0064
5.23	1417.08	13301.	1.0147	0.23	0.0687
5.99	1487.22	2110.	0.1610	0.04	0.0109
6.30	1511.56	2028.	0.1547	0.04	0.0105
6.54	1528.37	23733.	1.8106	0.41	0.1225
7.67	1600.00	5578.	0.4256	0.10	0.0288
7.93	1620.02	5952.	0.4541	0.10	0.0307
8.43	1656.73	1019.	0.0777	0.02	0.0053
9.02	1697.34	6561.	0.5005	0.11	0.0339
9.38	1724.65	5611.	0.4281	0.10	0.0290
10.10	1777.17	874.	0.0667	0.02	0.0045
10.50	1805.50	7360.	0.5615	0.13	0.0380
10.81	1829.40	4220.	0.3219	0.07	0.0218
11.29	1865.09	16852.	1.2857	0.29	0.0870
11.55	1883.80	4311.	0.3289	0.08	0.0223
11.87	1907.22	3413.	0.2604	0.06	0.0176
12.21	1934.00	6984.	0.5328	0.12	0.0361
12.48	1954.74	12460.	0.9506	0.22	0.0643
13.04	1996.37	135045.	10.3027	2.35	0.6972
13.55	2037.58	46259.	3.5291	0.81	0.2388
13.91	2066.11	39859.	3.0409	0.69	0.2058
14.68	2127.86	77996.	5.9504	1.36	0.4026
14.85	2141.97	46268.	3.5298	0.81	0.2389
15.16	2167.29	17452.	1.3314	0.30	0.0901
15.33	2180.96	17733.	1.3529	0.31	0.0915
15.76	2216.74	395483.	30.1718	6.89	2.0416
16.12	2247.91	178972.	13.6539	3.12	0.9239
16.35	2267.46	120087.	9.1616	2.09	0.6199
16.67	2294.22	151884.	11.5874	2.65	0.7841
17.00	2318.93	232087.	17.7061	4.04	1.1981
17.45	2351.02	281728.	21.4933	4.91	1.4544
17.85	2378.86	420152.	32.0538	7.32	2.1690
18.51	2424.21	696345.	53.1248	12.13	3.5948
18.97	2455.34	294934.	22.5008	5.14	1.5226
19.78	2505.91	69482.	5.3008	1.21	0.3587
20.32	2530.04	98585.	7.5211	1.72	0.5089
20.77	2549.67	54430.	4.1525	0.95	0.2810
21.08	2562.95	135856.	10.3646	2.37	0.7013
21.91	2597.55	24205.	1.8466	0.42	0.1250
22.64	0.0	101254.	7.7248	1.76	0.5227
23.19	0.0	362355.	27.6444	6.31	1.8706
23.85	0.0	256867.	19.5966	4.48	1.3260
24.60	0.0	87364.	6.6651	1.52	0.4510
25.58	0.0	13147.	1.0030	0.23	0.0679
26.84	0.0	136027.	10.3776	2.37	0.7022
27.93	0.0	13512.	1.0308	0.24	0.0698
29.18	0.0	76177.	5.8116	1.33	0.3933
33.87	0.0	19540.	1.4907	0.34	0.1009
35.67	0.0	56452.	4.3068	0.98	0.2914

38.10	0.0	116112.	8.8583	2.02	0.5994
41.49	0.0	841363.	64.1884	14.66	4.3434

COTTER/MEYERS U OF M

SAMPLE NUMBER: 96

BLM CODE: V-C-2 (-) SAMPLING DATE: 7-03-75

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 55 SAMPLE WEIGHT: 1.246 GRAMS

ISP/N-ALK: 0.046 BRANCHED/NORMAL: 0.334

ODD/EVEN: 0.197 ODD/EVEN ≤20: 1.041 ODD/EVEN >20: 0.134

N-ALK/ALL: 0.749 N-ALK/C16: 137.41 N-ALK (≤20/>20): 0.27

PRIS/PHYT: 1.85 PRIS/C17: 0.78 PHYT/C18: 0.51

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 40.571

RT	RI	AREA	UG/PEAK	PCT	UG/G
7.65	1502.81	133.	0.0153	0.03	0.0123
9.23	1583.18	606.	0.0699	0.14	0.0561
9.63	1601.54	2390.	0.2757	0.55	0.2213
10.76	1656.45	1175.	0.1356	0.27	0.1088
11.77	1700.98	12620.	1.4559	2.88	1.1684
11.95	1709.75	9844.	1.1356	2.25	0.9114
13.11	1763.29	3061.	0.3531	0.70	0.2834
13.99	1800.97	10380.	1.1975	2.37	0.9610
14.26	1813.87	5315.	0.6132	1.21	0.4921
14.96	1846.23	1394.	0.1608	0.32	0.1291
15.39	1865.37	3711.	0.4281	0.85	0.3436
16.21	1900.48	7244.	0.8357	1.65	0.6706
17.05	1939.82	211.	0.0243	0.05	0.0195
17.65	1966.75	845.	0.0975	0.19	0.0782
18.03	1983.34	4895.	0.5647	1.12	0.4532
18.43	2000.49	6436.	0.7425	1.47	0.5958
19.09	2032.08	194.	0.0224	0.04	0.0180
19.90	2069.39	1662.	0.1917	0.38	0.1539
20.59	2100.00	2365.	0.2728	0.54	0.2190
21.60	2149.31	1167.	0.1346	0.27	0.1080
22.14	2174.73	2602.	0.3002	0.59	0.2409
22.69	2200.00	5847.	0.6745	1.33	0.5413
23.57	2244.41	3499.	0.4037	0.80	0.3239
24.13	2271.81	1896.	0.2187	0.43	0.1755
24.71	2299.53	4383.	0.5056	1.00	0.4058
25.54	2342.77	702.	0.0810	0.16	0.0650
26.17	2374.70	1893.	0.2184	0.43	0.1753
26.68	2400.00	2172.	0.2506	0.50	0.2011
27.43	2440.30	349.	0.0403	0.08	0.0323
28.14	2477.45	2400.	0.2769	0.55	0.2222
28.74	2509.09	8794.	1.0145	2.01	0.8141
29.79	2567.53	1771.	0.2043	0.40	0.1640
30.35	2597.85	4130.	0.4765	0.94	0.3824
31.55	2667.28	1510.	0.1742	0.34	0.1398
32.11	2698.88	7460.	0.8606	1.70	0.6906
33.01	2752.41	2000.	0.2307	0.46	0.1852
33.36	2772.86	1838.	0.2120	0.42	0.1702
34.07	2814.93	27050.	3.1206	6.17	2.5043
34.77	2857.89	87.	0.0100	0.02	0.0081
35.44	2898.21	7912.	0.9128	1.81	0.7325
35.96	2931.48	4389.	0.5063	1.00	0.4063

37.04	2999.38	236800.	27.3182	54.04	21.9229
38.13	3071.46	916.	0.1057	0.21	0.0848
38.55	3098.71	7408.	0.8546	1.69	0.6858
38.99	3128.57	3490.	0.4026	0.80	0.3231
39.55	3166.20	31.	0.0036	0.01	0.0029
39.65	3172.86	109.	0.0126	0.02	0.0101
40.05	3199.34	1907.	0.2200	0.44	0.1765
40.45	3227.25	2591.	0.2989	0.59	0.2399
41.05	3268.66	64.	0.0074	0.01	0.0059
41.48	3297.96	4613.	0.5322	1.05	0.4271
41.89	3326.90	6886.	0.7944	1.57	0.6375
42.89	3396.56	4218.	0.4866	0.96	0.3905
43.21	3419.96	695.	0.0802	0.16	0.0643
43.79	3462.41	169.	0.0195	0.04	0.0156

COTTER/MEYERS U OF M

SAMPLE NUMBER: 96

BLM CODE: V-C-2 (-) SAMPLING DATE: 7-03-75

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 16 SAMPLE WEIGHT: 1.246 GRAMS

ISP/N-ALK: 0.298 BRANCHED/NORMAL: 0.693

ODD/EVEN: 0.988 ODD/EVEN ≤20: 1.097 ODD/EVEN >20: 2.794

N-ALK/ALL: 0.591 N-ALK/C16: 43.43 N-ALK(≤20/>20): 2.01

PRIS/PHYT: 1.31 PRIS/C17: 0.87 PHYT/C18: 0.52

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 2.840

RT	RI	AREA	UG/PEAK	PCT	UG/G
7.25	1600.00	1561.	0.0481	1.36	0.0386
8.06	1661.19	11468.	0.3537	10.00	0.2838
8.61	1699.33	13207.	0.4073	11.51	0.3269
9.53	1768.04	8762.	0.2702	7.64	0.2169
9.98	1799.32	16908.	0.5215	14.74	0.4185
10.65	1854.68	3685.	0.1136	3.21	0.0912
11.33	1907.40	8966.	0.2765	7.81	0.2219
11.76	1938.47	1166.	0.0360	1.02	0.0289
12.02	1956.72	1292.	0.0398	1.13	0.0320
12.62	1997.36	17663.	0.5447	15.39	0.4372
13.90	2100.00	4127.	0.1273	3.60	0.1021
15.14	2203.49	2800.	0.0864	2.44	0.0693
15.72	2253.05	2136.	0.0659	1.86	0.0529
16.28	2299.19	11521.	0.3553	10.04	0.2851
17.22	2373.95	6314.	0.1947	5.50	0.1563
18.26	2445.93	3157.	0.0974	2.75	0.0781

COTTER/MEYERS U OF M

SAMPLE NUMBER: 96

BLM CODE: V-C-2 (-) SAMPLING DATE: 7-03-75

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: 52 SAMPLE WEIGHT: 1.246 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 3730.924

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.30	0.0	283100.	8.0800	0.17	6.4842
4.61	1317.24	8798.	0.2511	0.01	0.2015
4.89	1338.02	25220.	0.7198	0.02	0.5776
5.28	1365.07	1334.	0.0381	0.00	0.0306
5.91	1405.22	2629.	0.0750	0.00	0.0602
6.69	1452.68	1672.	0.0477	0.00	0.0383
6.99	1469.48	1364.	0.0389	0.00	0.0312
7.62	1502.81	37850.	1.0803	0.02	0.8669
7.81	1513.31	77040.	2.1988	0.05	1.7645
8.95	1571.43	24830.	0.7087	0.02	0.5687
9.36	1590.54	1344.	0.0384	0.00	0.0308
9.64	1603.58	9126.	0.2605	0.01	0.2090
11.25	1679.47	373900.	10.6715	0.23	8.5639
11.95	1710.76	3677000.	104.9458	2.26	84.2193
13.39	1776.68	535700.	15.2895	0.33	12.2699
14.14	1809.60	2151000.	61.3920	1.32	49.2673
14.73	1837.15	102600.	2.9283	0.06	2.3500
15.98	1892.03	6452000.	184.1474	3.96	147.7789
16.64	1922.27	19940000.	569.1101	12.24	456.7126
18.05	1985.49	4705000.	134.2860	2.89	107.7650
18.67	2013.61	5224000.	149.0989	3.21	119.6524
20.50	2097.81	22670000.	647.0273	13.92	519.2417
21.13	2128.61	22390000.	639.0359	13.75	512.8284
21.98	2169.14	2364000.	67.4712	1.45	54.1459
22.41	2189.05	2687000.	76.6900	1.65	61.5440
23.03	2219.38	1464000.	41.7842	0.90	33.5320
23.75	2255.25	20650000.	589.3743	12.68	472.9749
24.60	2296.22	11280000.	321.9438	6.92	258.3608
24.97	2315.29	1690000.	48.2345	1.04	38.7084
25.56	2345.85	1372000.	39.1584	0.84	31.4248
26.39	2387.66	691600.	19.7390	0.42	15.8407
27.29	2434.99	12830000.	366.1826	7.88	293.8628
27.87	2465.52	2222000.	63.4184	1.36	50.8935
28.41	2493.37	3233000.	92.2735	1.98	74.0498
28.80	2514.75	2940000.	83.9109	1.80	67.3388
30.18	2590.86	635100.	18.1265	0.39	14.5466
30.61	2615.21	775600.	22.1365	0.48	17.7646
31.75	2680.44	189300.	5.4028	0.12	4.3358
32.00	2694.43	4408000.	125.8093	2.71	100.9624
33.01	2755.12	200400.	5.7196	0.12	4.5900
33.67	2794.15	339300.	9.6840	0.21	7.7715
34.04	2816.79	726800.	20.7437	0.45	16.6469
35.33	2895.23	2603000.	74.2926	1.60	59.6200
36.35	2958.92	151300.	4.3183	0.09	3.4654
36.97	2996.96	139800.	3.9901	0.09	3.2020
38.43	3092.90	302000.	8.6194	0.19	6.9171
38.96	3128.21	85740.	2.4471	0.05	1.9638
40.11	3204.42	33540.	0.9573	0.02	0.7682
40.41	3226.41	24620.	0.7027	0.02	0.5639

41.33	3292.87	42400.	1.2101	0.03	0.9711
41.87	3330.92	79320.	2.2639	0.05	1.8168
42.17	3351.81	37350.	1.0660	0.02	0.8555

COTTER/MEYERS U OF M

SAMPLE NUMBER: 96

BLM CODE: V-C-2 (-) SAMPLING DATE: 7-03-75

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 47 SAMPLE WEIGHT: 1.246 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 3332.866

RT	RI	AREA	UG/PEAK	PCT	UG/G
6.35	1515.12	2014.	0.1859	0.00	0.1492
6.60	1532.47	2093.	0.1932	0.00	0.1550
7.73	1604.68	3490.	0.3221	0.01	0.2585
8.50	1661.69	4945.	0.4564	0.01	0.3662
9.09	1702.35	4080.	0.3765	0.01	0.3022
10.21	1784.86	969.	0.0894	0.00	0.0718
10.56	1810.18	20166.	1.8611	0.04	1.4935
11.92	1911.20	870.	0.0803	0.00	0.0644
11.92	1911.20	7213.	0.6657	0.02	0.5342
12.25	1937.10	4277.	0.3947	0.01	0.3168
12.63	1966.08	10783.	0.9952	0.02	0.7986
13.28	2015.68	1111141.	102.5462	2.47	82.2936
13.62	2043.19	61560.	5.6813	0.14	4.5593
13.94	2068.46	88074.	8.1283	0.20	6.5230
14.15	2084.73	35607.	3.2861	0.08	2.6371
14.56	2117.80	330567.	30.5077	0.73	24.4825
14.90	2146.09	307272.	28.3578	0.68	22.7572
15.23	2172.94	137851.	12.7221	0.31	10.2096
15.41	2187.34	226472.	20.9009	0.50	16.7730
15.88	2227.21	5898372.	544.3550	13.11	436.8467
16.20	2254.74	1903307.	175.6544	4.23	140.9633
16.45	2275.88	476669.	43.9913	1.06	35.3032
16.65	2292.56	302986.	27.9623	0.67	22.4398
17.07	2323.98	1647565.	152.0522	3.66	122.0224
17.52	2355.94	990346.	91.3981	2.20	73.3473
17.99	2388.45	967374.	89.2780	2.15	71.6459
18.74	2439.87	7024722.	648.3049	15.61	520.2668
19.18	2469.30	5566351.	513.7131	12.37	412.2566
19.88	2510.43	567353.	52.3605	1.26	42.0195
20.41	2534.00	485055.	44.7653	1.08	35.9243
21.01	2559.97	558391.	51.5334	1.24	41.3557
21.95	2599.19	168708.	15.5699	0.37	12.4949
22.80	0.0	368029.	33.9650	0.82	27.2571
23.59	0.0	2580549.	238.1564	5.73	191.1214
24.83	0.0	596531.	55.0533	1.33	44.1805
25.66	0.0	309407.	28.5549	0.69	22.9154
26.60	0.0	1730519.	159.7080	3.85	128.1662
28.04	0.0	117830.	10.8744	0.26	8.7268
29.18	0.0	4360612.	402.4368	9.69	322.9568
30.38	0.0	1021479.	94.2713	2.27	75.6531
31.58	0.0	448474.	41.3892	1.00	33.2150
33.88	0.0	128107.	11.8229	0.28	9.4879
35.58	0.0	366374.	33.8123	0.81	27.1345
37.20	0.0	146517.	13.5219	0.33	10.8514
39.69	0.0	507803.	46.8647	1.13	37.6090
41.84	0.0	3223588.	297.5017	7.16	238.7462
48.25	0.0	178493.	16.4720	0.40	13.2189

COTTER/MEYERS U OF M

SAMPLE NUMBER: 97

BLM CODE: #49 SAMPLING DATE: 7-09-73

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 60 SAMPLE WEIGHT: 2.188 GRAMS

ISP/N-ALK: 0.012 BRANCHED/NORMAL: 1.133

ODD/EVEN: 0.585 ODD/EVEN ≤20: 1.745 ODD/EVEN >20: 0.336

N-ALK/ALL: 0.469 N-ALK/C16: 17.93 N-ALK(≤20/>20): 0.58

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.40

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 27.205

RT	RI	AREA	UG/PEAK	PCT	UG/G
6.98	1467.48	16440.	0.1486	0.25	0.0679
7.62	1501.13	53710.	0.4854	0.82	0.2219
8.73	1559.34	45030.	0.4069	0.68	0.1860
8.92	1568.55	76860.	0.6946	1.17	0.3175
9.61	1600.52	172200.	1.5562	2.61	0.7113
10.74	1655.53	192200.	1.7369	2.92	0.7940
11.30	1680.68	118000.	1.0664	1.79	0.4874
11.78	1701.47	432800.	3.9113	6.57	1.7879
12.81	1749.91	129400.	1.1694	1.96	0.5345
13.09	1762.40	268500.	2.4265	4.08	1.1091
13.98	1800.48	94440.	0.8535	1.43	0.3901
14.28	1814.82	37600.	0.3398	0.57	0.1553
14.84	1840.79	19090.	0.1725	0.29	0.0789
15.36	1864.05	52340.	0.4730	0.79	0.2162
15.78	1882.26	36720.	0.3318	0.56	0.1517
16.23	1901.44	59200.	0.5350	0.90	0.2445
16.85	1930.63	1894.	0.0171	0.03	0.0078
17.23	1948.00	1907.	0.0172	0.03	0.0079
17.64	1966.31	7236.	0.0654	0.11	0.0299
18.04	1983.77	26170.	0.2365	0.40	0.1081
18.44	2000.97	46110.	0.4167	0.70	0.1905
19.08	2031.61	1115.	0.0101	0.02	0.0046
19.43	2047.93	38940.	0.3519	0.59	0.1609
20.27	2085.94	542700.	4.9045	8.24	2.2418
20.78	2109.46	180600.	1.6321	2.74	0.7460
21.49	2144.05	12290.	0.1111	0.19	0.0508
22.13	2174.27	2721.	0.0246	0.04	0.0112
22.69	2200.00	35380.	0.3197	0.54	0.1462
23.02	2216.85	12950.	0.1170	0.20	0.0535
23.60	2245.89	40570.	0.3666	0.62	0.1676
24.23	2276.63	82540.	0.7459	1.25	0.3410
24.75	2301.59	37320.	0.3373	0.57	0.1542
25.10	2319.99	12080.	0.1092	0.18	0.0499
25.50	2340.71	16070.	0.1452	0.24	0.0664
26.14	2373.20	39260.	0.3548	0.60	0.1622
26.68	2400.00	37860.	0.3421	0.57	0.1564
27.34	2435.52	13530.	0.1223	0.21	0.0559
28.12	2476.41	23000.	0.2079	0.35	0.0950
28.74	2509.09	116900.	1.0564	1.78	0.4829
29.17	2533.28	35040.	0.3167	0.53	0.1447
29.88	2572.44	150000.	1.3556	2.28	0.6196

30.38	2599.46	55030.	0.4973	0.84	0.2273
30.94	2632.21	25160.	0.2274	0.38	0.1039
35.14	2880.25	108100.	0.9769	1.64	0.4465
32.79	2739.44	120400.	1.0881	1.83	0.4974
34.09	2816.17	353100.	3.1910	5.36	1.4586
34.84	2862.14	101500.	0.9173	1.54	0.4193
35.47	2900.00	140500.	1.2697	2.13	0.5804
35.94	2930.21	43620.	0.3942	0.66	0.1802
36.32	2954.34	30340.	0.2742	0.46	0.1253
37.09	3002.69	1668000.	15.0740	25.33	6.8903
38.59	3101.37	143000.	1.2923	2.17	0.5907
38.99	3128.57	21310.	0.1926	0.32	0.0880
39.65	3172.86	78640.	0.7107	1.19	0.3249
40.05	3199.34	46840.	0.4233	0.71	0.1935
40.44	3226.55	13620.	0.1231	0.21	0.0563
40.82	3252.85	11860.	0.1072	0.18	0.0490
41.84	3323.38	202600.	1.8309	3.08	0.8369
42.92	3398.62	64720.	0.5849	0.98	0.2674
43.30	3426.58	38680.	0.3496	0.59	0.1598

COTTER/MEYERS U OF M

SAMPLE NUMBER: 97

BLM CODE: #49 SAMPLING DATE: 7-09-73

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 17 SAMPLE WEIGHT: 2.188 GRAMS

ISP/N-ALK: 0.229 BRANCHED/NORMAL: 5.861

ODD/EVEN: 0.550 ODD/EVEN ≤20: 0.464 ODD/EVEN >20: 1.759

N-ALK/ALL: 0.146 N-ALK/C16: 3.83 N-ALK(≤20/>20): 2.49

PRIS/PHYT: 2.87 PRIS/C17: 0.89 PHYT/C18: 0.39

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 10.756

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.14	1501.08	7257.	0.2085	0.89	0.0953
5.20	1602.90	31125.	0.8944	3.80	0.4088
5.82	1659.43	20271.	0.5825	2.48	0.2663
6.34	1702.70	22858.	0.6568	2.79	0.3002
7.12	1768.84	7062.	0.2029	0.86	0.0928
7.56	1803.45	18103.	0.5202	2.21	0.2378
8.17	1853.91	1006.	0.0289	0.12	0.0132
8.80	1902.60	3245.	0.0932	0.40	0.0426
9.44	1956.09	5870.	0.1687	0.72	0.0771
9.98	1998.47	22693.	0.6521	2.77	0.2981
10.71	2060.53	148182.	4.2579	18.10	1.9463
11.53	2127.65	50264.	1.4443	6.14	0.6602
12.49	2204.39	5101.	0.1466	0.62	0.0670
14.63	2374.97	13750.	0.3951	1.68	0.1806
16.37	2499.32	8975.	0.2579	1.10	0.1179
17.52	2552.71	22443.	0.6449	2.74	0.2948
20.40	2679.79	430703.	12.3761	52.59	5.6571

COTTER/MEYERS U OF M

SAMPLE NUMBER: 97

BLM CODE: #49 SAMPLING DATE: 7-09-73

FRACTION: BENZENE COLUMN TYPE: CV 101

NUMBER OF PEAKS: 59 SAMPLE WEIGHT: 2.188 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 3844.028

RT	RI	AREA	UG/PEAK	PCT	UG/G
3.29	0.0	193300.	8.2600	0.10	3.7757
4.13	0.0	5551.	0.2372	0.00	0.1084
4.59	1318.78	3906.	0.1669	0.00	0.0763
5.57	1386.45	10140.	0.4333	0.01	0.1981
5.91	1407.85	8972.	0.3834	0.00	0.1752
6.27	1430.46	22930.	0.9798	0.01	0.4479
7.03	1474.23	5112.	0.2184	0.00	0.0999
7.27	1487.07	32870.	1.4046	0.02	0.6420
7.79	1515.09	88020.	3.7612	0.04	1.7193
8.25	1539.64	11230.	0.4799	0.01	0.2194
9.03	1578.29	60180.	2.5716	0.03	1.1755
9.79	1614.74	85200.	3.6407	0.04	1.6642
11.15	1678.50	474400.	20.2718	0.24	9.2663
11.91	1712.76	1022000.	43.6716	0.52	19.9623
13.12	1768.70	4428000.	189.2151	2.25	86.4904
13.40	1780.90	6594000.	281.7712	3.35	128.7979
14.16	1814.89	958000.	40.9368	0.49	18.7122
14.37	1824.79	881000.	37.6464	0.45	17.2082
15.25	1864.77	1213000.	51.8333	0.62	23.6930
15.89	1892.42	4571000.	195.3257	2.32	89.2835
16.46	1918.53	6044000.	258.2690	3.07	118.0550
16.80	1934.33	863400.	36.8944	0.44	16.8644
17.49	1965.44	12910000.	551.6636	6.56	252.1660
17.97	1986.36	6796000.	290.4031	3.45	132.7435
18.65	2017.46	1622000.	69.3105	0.82	31.6819
19.76	2069.25	2409000.	102.9402	1.22	47.0540
20.32	2094.29	4850000.	207.2477	2.46	94.7331
20.87	2120.89	7278000.	310.9998	3.70	142.1583
21.82	2166.64	12950000.	553.3728	6.58	252.9473
22.21	2184.84	3478000.	148.6201	1.77	67.9344
22.61	2203.60	2467000.	105.4186	1.25	48.1869
23.45	2245.90	1946000.	83.1555	0.99	38.0105
24.38	2291.00	1403000.	59.9523	0.71	27.4042
24.91	2317.82	1076000.	45.9791	0.55	21.0171
25.71	2358.80	1597000.	68.2422	0.81	31.1936
26.21	2383.78	1508000.	64.4391	0.77	29.4552
27.09	2429.82	1812000.	77.4295	0.92	35.3931
27.71	2462.71	481000.	20.5538	0.24	9.3952
28.36	2496.42	1282000.	54.7818	0.65	25.0408
28.75	2518.04	1850000.	79.0533	0.94	36.1353
29.54	2561.72	1968000.	84.0956	1.00	38.4402
30.33	2604.75	2101000.	89.7789	1.07	41.0380
31.42	2668.23	3203000.	136.8690	1.63	62.5629
32.09	2706.59	8248000.	352.4492	4.19	161.1049
33.27	2775.92	17960000.	767.4575	9.13	350.8054
34.04	2821.87	2803000.	119.7764	1.42	54.7499
34.41	2844.75	1156000.	49.3976	0.59	22.5797
34.75	2865.56	3267000.	139.6038	1.66	63.8130
35.47	2909.68	1905000.	81.4035	0.97	37.2096

36.34	2965.06	25170000.	1075.5515	12.79	491.6355
37.30	3026.71	815200.	34.8347	0.41	15.9230
37.93	3068.20	11390000.	486.7117	5.79	222.4764
38.91	3133.31	4810000.	205.5385	2.44	93.9518
39.44	3168.87	2869000.	122.5966	1.46	56.0390
40.01	3207.01	1408000.	60.1659	0.72	27.5019
40.53	3243.20	1107000.	47.3038	0.56	21.6226
41.01	3276.19	5941000.	253.8678	3.02	116.0432
41.99	3344.17	3486000.	148.9620	1.77	68.0907
42.58	3384.94	1903000.	81.3180	0.97	37.1705

COTTER/MEYERS U OF M

SAMPLE NUMBER: 97

BLM CODE: #49 SAMPLING DATE: 7-09-73

FRACTION: BENZENE COLUMN TYPE: FFAP

NUMBER OF PEAKS: 53 SAMPLE WEIGHT: 2.188 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 2806.447

RT	RI	AREA	UG/PEAK	PCT	UG/G
5.11	1405.08	1202.	0.1159	0.00	0.0530
5.76	1466.98	1010.	0.0974	0.00	0.0445
6.38	1517.23	2682.	0.2587	0.00	0.1182
6.60	1532.47	2299.	0.2217	0.00	0.1014
7.09	1564.66	3089.	0.2979	0.00	0.1362
7.74	1605.45	4334.	0.4180	0.01	0.1911
8.51	1662.40	3568.	0.3441	0.01	0.1573
9.11	1703.91	3538.	0.3412	0.01	0.1560
9.43	1728.42	3376.	0.3256	0.01	0.1488
9.90	1762.97	3515.	0.3390	0.01	0.1550
10.18	1782.77	1351.	0.1303	0.00	0.0596
10.55	1809.40	42131.	4.0636	0.07	1.8575
10.85	1832.43	16157.	1.5584	0.03	0.7123
11.29	1865.09	15565.	1.5013	0.02	0.6862
11.52	1881.66	32647.	3.1489	0.05	1.4394
11.93	1912.00	49444.	4.7690	0.08	2.1799
12.26	1937.88	22178.	2.1391	0.03	0.9778
12.64	1966.82	114261.	11.0208	0.18	5.0376
13.33	2019.77	2567518.	247.6436	4.03	113.1981
13.73	2051.94	187835.	18.1172	0.30	8.2814
13.97	2070.80	2118357.	204.3208	3.33	93.3953
14.17	2086.26	1242173.	119.8107	1.95	54.7656
14.57	2118.64	539475.	52.0337	0.85	23.7847
14.99	2153.47	373448.	36.0200	0.59	16.4648
15.22	2172.14	772638.	74.5229	1.21	34.0645
15.54	2197.63	378960.	36.5516	0.60	16.7078
15.85	2224.60	2864774.	276.3145	4.50	126.3036
16.22	2256.45	5152607.	496.9817	8.09	227.1708
16.48	2278.39	1591024.	153.4583	2.50	70.1459
16.81	2305.12	3951272.	381.1099	6.21	174.2057
17.08	2324.70	958306.	92.4310	1.51	42.2503
17.54	2357.34	1133296.	109.3092	1.78	49.9653
18.09	2395.26	372430.	35.9218	0.59	16.4199
18.66	2434.44	3155247.	304.3313	4.96	139.1101
19.17	2468.64	7773941.	749.8159	12.21	342.7415
19.53	2492.23	1859636.	179.3665	2.92	81.9886
19.94	2513.13	1044678.	100.7618	1.64	46.0583
20.42	2534.44	348289.	33.5933	0.55	15.3555
21.23	2569.30	1247815.	120.3549	1.96	55.0143
21.96	2599.59	626925.	60.4685	0.98	27.6402
22.75	0.0	524219.	50.5622	0.82	23.1120
23.42	0.0	1024738.	98.8385	1.61	45.1792
24.16	0.0	1151572.	111.0720	1.81	50.7711
25.66	0.0	355513.	34.2901	0.56	15.6740
26.56	0.0	823280.	79.4074	1.29	36.2972
28.01	0.0	387324.	37.3584	0.61	17.0765
29.24	0.0	928194.	89.5266	1.46	40.9227
30.38	0.0	1501498.	144.8232	2.36	66.1988
32.57	0.0	572545.	55.2234	0.90	25.2427

33.98	0.0	459870.	44.3556	0.72	20.2750
35.59	0.0	1111003.	107.1590	1.75	48.9825
38.37	0.0	2598052.	250.5886	4.08	114.5443
42.76	0.0	11634281.	1122.1555	18.28	512.9382

COTTER/MEYERS U OF M

SAMPLE NUMBER:164

BLM CODE: I-C-4 SAMPLING DATE: 6-16-74

FRACTION: PET ETHER COLUMN TYPE: OV 101

NUMBER OF PEAKS: 48 SAMPLE WEIGHT: 16.685 GRAMS

ISP/N-ALK: 0.063 BRANCHED/NORMAL: 0.900

ODD/EVEN: 2.584 ODD/EVEN ≤20: 3.184 ODD/EVEN >20: 1.850

N-ALK/ALL: 0.526 N-ALK/C16: 11.61 N-ALK (≤20/>20): 4.21

PRIS/PHYT: NONE PRIS/C17: NONE PHYT/C18: 0.70

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 1.219

RT	RI	AREA	UG/PEAK	PCT	UG/G
6.93	1415.17	1150.	0.0311	0.15	0.0019
7.91	1469.80	774.	0.0209	0.10	0.0013
8.63	1506.49	29970.	0.8096	3.98	0.0485
9.91	1570.57	4796.	0.1296	0.64	0.0078
10.33	1589.80	4409.	0.1191	0.59	0.0071
10.66	1604.98	34150.	0.9225	4.53	0.0553
11.73	1655.52	8496.	0.2295	1.13	0.0138
12.81	1702.41	122600.	3.3119	16.28	0.1985
13.85	1750.47	2590.	0.0700	0.34	0.0042
14.22	1766.71	1762.	0.0476	0.23	0.0029
15.07	1802.87	35350.	0.9549	4.69	0.0572
15.31	1814.23	24880.	0.6721	3.30	0.0403
15.91	1841.86	14220.	0.3841	1.89	0.0230
16.45	1865.86	22210.	0.6000	2.95	0.0360
16.83	1882.28	36350.	0.9819	4.83	0.0589
17.31	1902.86	47690.	1.2883	6.33	0.0772
19.16	1986.37	7398.	0.1998	0.98	0.0120
19.54	2002.91	18130.	0.4898	2.41	0.0294
20.45	2046.01	4657.	0.1258	0.62	0.0075
21.25	2082.34	28560.	0.7715	3.79	0.0462
21.70	2102.50	34210.	0.9241	4.54	0.0554
22.52	2142.75	1682.	0.0454	0.22	0.0027
23.24	2176.90	661.	0.0179	0.09	0.0011
23.81	2203.59	18370.	0.4962	2.44	0.0297
24.61	2243.86	9166.	0.2476	1.22	0.0148
25.84	2303.70	16520.	0.4463	2.19	0.0267
26.21	2323.10	18350.	0.4957	2.44	0.0297
26.65	2345.81	4649.	0.1256	0.62	0.0075
27.34	2380.68	929.	0.0251	0.12	0.0015
27.81	2404.37	16210.	0.4379	2.15	0.0262
29.72	2505.68	30010.	0.8107	3.98	0.0486
30.79	2565.31	20730.	0.5600	2.75	0.0336
31.50	2604.11	21470.	0.5800	2.85	0.0348
32.09	2638.35	1103.	0.0298	0.15	0.0018
32.62	2668.58	8826.	0.2384	1.17	0.0143
33.21	2701.82	7104.	0.1919	0.94	0.0115
34.01	2749.73	887.	0.0240	0.12	0.0014
34.92	2803.12	2721.	0.0735	0.36	0.0044
35.19	2819.88	4700.	0.1270	0.62	0.0076
36.47	2897.62	33960.	0.9174	4.51	0.0550
36.98	2930.38	26770.	0.7232	3.55	0.0433

38.13	3003.35	3001.	0.0811	0.40	0.0049
39.64	3102.73	6374.	0.1722	0.85	0.0103
40.67	3172.18	806.	0.0218	0.11	0.0013
41.13	3202.79	4228.	0.1142	0.56	0.0068
42.61	3304.29	7646.	0.2065	1.02	0.0124
43.99	3401.37	738.	0.0199	0.10	0.0012
45.54	3505.68	1186.	0.0320	0.16	0.0019

COTTER/MEYERS U OF M

SAMPLE NUMBER:164

BLM CODE: I-C-4 SAMPLING DATE: 6-16-74

FRACTION: PET ETHER COLUMN TYPE: FFAP

NUMBER OF PEAKS: 40 SAMPLE WEIGHT: 16.685 GRAMS

ISP/N-ALK: 0.262 BRANCHED/NORMAL: 2.161

ODD/EVEN: 0.572 ODD/EVEN ≤20: 0.392 ODD/EVEN >20: 0.787

N-ALK/ALL: 0.316 N-ALK/C16: 10.80 N-ALK(≤20/>20): 0.94

PRIS/PHYT: 0.85 PRIS/C17: NONE PHYT/C18: 0.71

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 3.136

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.29	1299.14	638.	0.0133	0.03	0.0008
5.48	1399.25	6678.	0.1394	0.27	0.0084
5.89	1432.86	1063.	0.0222	0.04	0.0013
6.78	1498.62	41670.	0.8701	1.66	0.0521
7.47	1551.20	8258.	0.1724	0.33	0.0103
7.69	1567.01	2584.	0.0540	0.10	0.0032
8.15	1598.66	73400.	1.5327	2.93	0.0919
8.63	1627.79	18920.	0.3951	0.76	0.0237
8.95	1646.26	95720.	1.9987	3.82	0.1198
9.53	1678.12	158500.	3.3097	6.33	0.1984
10.01	1706.53	62660.	1.3084	2.50	0.0784
10.22	1729.07	67140.	1.4020	2.68	0.0840
10.44	1752.19	112300.	2.3450	4.48	0.1405
10.89	1798.01	158500.	3.3097	6.33	0.1984
11.32	1831.85	65500.	1.3677	2.61	0.0820
11.57	1850.70	117400.	2.4515	4.69	0.1469
12.21	1897.18	51920.	1.0842	2.07	0.0650
12.53	1922.74	40220.	0.8398	1.61	0.0503
12.91	1952.80	74900.	1.5640	2.99	0.0937
13.30	1982.75	68720.	1.4350	2.74	0.0860
13.49	1997.02	81640.	1.7047	3.26	0.1022
13.86	2027.48	74300.	1.5515	2.97	0.0930
14.20	2055.12	135500.	2.8294	5.41	0.1696
14.74	2097.68	38160.	0.7968	1.52	0.0478
15.04	2123.38	39710.	0.8292	1.58	0.0497
15.55	2166.41	116000.	2.4222	4.63	0.1452
15.96	2200.00	189800.	3.9633	7.58	0.2375
16.46	2242.90	118400.	2.4723	4.73	0.1482
16.75	2267.18	94620.	1.9758	3.78	0.1184
17.11	2296.75	113200.	2.3638	4.52	0.1417
17.41	2318.79	96240.	2.0096	3.84	0.1204
17.86	2350.65	89380.	1.8664	3.57	0.1119
18.15	2370.76	35040.	0.7317	1.40	0.0439
18.53	2396.63	15400.	0.3216	0.61	0.0193
18.92	2420.37	8102.	0.1692	0.32	0.0101
19.38	2447.35	4399.	0.0919	0.18	0.0055
20.29	2498.89	15220.	0.3178	0.61	0.0190
21.65	2562.66	2084.	0.0435	0.08	0.0026
22.44	2597.82	6536.	0.1365	0.26	0.0082
23.69	2646.01	5123.	0.1070	0.20	0.0064

SAMPLE NUMBER:164

BLM CODE: I-C-4 SAMPLING DATE: 6-16-74

FRACTION: BENZENE COLUMN TYPE: OV 101

NUMBER OF PEAKS: 61 SAMPLE WEIGHT: 16.685 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 492.182

RT	RI	AREA	UG/PEAK	PCT	UG/G
4.69	1270.88	56810.	1.1334	0.01	0.0679
5.03	1297.04	615700.	12.2832	0.15	0.7362
6.65	1403.70	60250.	1.2020	0.01	0.0720
7.13	1432.14	2204.	0.0440	0.00	0.0026
7.82	1469.83	2189.	0.0437	0.00	0.0026
8.47	1502.72	1110000.	22.1445	0.27	1.3272
10.01	1579.38	553500.	11.0423	0.13	0.6618
10.53	1603.01	784400.	15.6488	0.19	0.9379
11.93	1668.73	211400.	4.2174	0.05	0.2528
12.25	1682.67	221600.	4.4209	0.05	0.2650
12.91	1711.95	4246000.	84.7077	1.03	5.0768
14.37	1777.45	1218000.	24.2991	0.30	1.4563
15.23	1815.17	10330000.	206.0834	2.51	12.3512
18.10	1943.92	57460000.	1146.3264	13.96	68.7028
19.37	1999.16	10100000.	201.4949	2.45	12.0762
20.03	2030.75	19640000.	391.8176	4.77	23.4828
22.51	2146.87	90500000.	1805.4741	21.99	108.2074
23.01	2170.50	47900000.	955.6045	11.64	57.2722
23.52	2194.07	8240000.	164.3879	2.00	9.8523
23.85	2210.18	5068000.	101.1066	1.23	6.0596
24.34	2234.76	2838000.	56.6181	0.69	3.3933
25.60	2295.76	64620000.	1289.1685	15.70	77.2637
26.21	2327.26	21900000.	436.9048	5.32	26.1850
26.47	2340.68	2635000.	52.5682	0.64	3.1506
26.83	2359.06	3454000.	68.9073	0.84	4.1298
27.59	2397.05	1061000.	21.1669	0.26	1.2686
28.97	2470.17	35440000.	707.0276	8.61	42.3743
29.53	2498.98	2220000.	44.2890	0.54	2.6544
30.03	2526.96	3597000.	71.7601	0.87	4.3008
31.29	2595.73	551900.	11.0104	0.13	0.6599
31.75	2622.18	900000.	17.9550	0.22	1.0761
32.17	2646.39	891400.	17.7834	0.22	1.0658
33.04	2695.55	546900.	10.9107	0.13	0.6539
33.42	2718.12	1302000.	25.9749	0.32	1.5568
35.15	2821.11	1696000.	33.8352	0.41	2.0278
36.39	2896.42	150700.	3.0065	0.04	0.1802
36.68	2914.82	172400.	3.4394	0.04	0.2061
38.30	3017.94	8468.	0.1689	0.00	0.0101
39.19	3076.18	72980.	1.4559	0.02	0.0873
39.91	3123.98	2342000.	46.7229	0.57	2.8002
41.31	3218.88	343100.	6.8448	0.08	0.4102
41.81	3253.54	246400.	4.9157	0.06	0.2946
43.25	3353.19	516300.	10.3002	0.13	0.6173
44.15	3414.98	207700.	4.1436	0.05	0.2483
44.69	3451.42	303800.	6.0608	0.07	0.3632
45.67	3515.95	302600.	6.0369	0.07	0.3618
46.34	3558.28	1528000.	30.4836	0.37	1.8270
47.39	0.0	493900.	9.8533	0.12	0.5905
48.15	0.0	412700.	8.2334	0.10	0.4934

49.37	0.0	768200.	15.3256	0.19	0.9185
49.82	0.0	291000.	5.8054	0.07	0.3479
50.29	0.0	245000.	4.8877	0.06	0.2929
51.52	0.0	65640.	1.3095	0.02	0.0785
53.24	0.0	6255.	0.1248	0.00	0.0075
54.28	0.0	527200.	10.5176	0.13	0.6304
54.89	0.0	357500.	7.1321	0.09	0.4274
57.11	0.0	7094.	0.1415	0.00	0.0085
60.99	0.0	99100.	1.9770	0.02	0.1185
62.65	0.0	50600.	1.0095	0.01	0.0605
67.27	0.0	4366.	0.0871	0.00	0.0052
72.75	0.0	147900.	2.9506	0.04	0.1768

COTTER/MEYERS U OF M

SAMPLE NUMBER:164

BIM CODE: I-C-4 SAMPLING DATE: 6-16-74

FRACTION: BENZENE COLUMN TYPE: SCAP

NUMBER OF PEAKS: 34 SAMPLE WEIGHT: 10.685 GRAMS

MICROGRAMS OF HYDROCARBON PER GRAM OF SAMPLE: 642.864

RI	SI	AREA	UG/PEAK	PCT	UG/G
5.48	1500.86	27191.	18.1619	0.17	1.0885
6.14	1554.57	4218.	2.8174	0.03	0.1689
6.77	1600.81	10292.	6.8744	0.06	0.4120
7.47	1654.85	4133.	2.7606	0.03	0.1655
8.12	1700.81	45431.	30.3451	0.28	1.8187
9.07	1773.16	6565.	4.3855	0.04	0.2628
9.45	1800.00	5126.	3.4239	0.03	0.2052
9.75	1824.37	2494.	1.6658	0.02	0.0998
10.82	1904.91	2739.	1.8295	0.02	0.1096
11.12	1929.07	4705.	3.1427	0.03	0.1883
11.54	1961.81	1056.	0.7073	0.01	0.0424
12.16	2009.28	87508.	58.4500	0.54	3.5031
12.52	2039.06	31198.	20.8383	0.19	1.2489
12.82	2063.24	6837.	4.5667	0.04	0.2737
13.45	2113.84	128975.	86.1474	0.80	5.1631
13.78	2141.88	273575.	182.7313	1.70	10.9516
14.38	2191.19	95915.	64.0653	0.60	3.8396
14.82	2229.73	1567651.	1047.0947	9.76	62.7555
15.10	2254.45	1371706.	916.2153	8.54	54.9115
15.93	2327.47	528987.	353.3308	3.29	21.1762
16.28	2358.87	1234947.	824.8689	7.69	49.4358
17.50	2456.91	2127516.	1421.0503	13.25	85.1678
17.78	2477.54	3216371.	2148.3386	20.03	128.7563
18.24	2509.52	530668.	354.4536	3.30	21.2435
18.63	2533.96	125771.	84.0073	0.78	5.0343
19.20	2568.62	316759.	211.5756	1.97	12.6804
21.00	2663.70	579247.	386.9014	3.61	23.1881
22.59	2713.48	428093.	285.9397	2.67	17.1372
23.56	2771.19	1210967.	808.8516	7.54	48.4769
25.48	2836.01	1147172.	766.2405	7.14	45.9231
30.39	2967.79	71712.	47.8932	0.45	2.8707
31.68	2997.73	100733.	67.2835	0.63	4.0325
33.53	3033.58	21356.	14.2645	0.13	0.8549
35.37	3067.55	741352.	495.1775	4.62	29.6775

CC:TER/MEYERS U OF M

The Department of the Interior Mission

As the Nation's principal conservation agency, the Department of the Interior has responsibility for most of our nationally owned public lands and natural resources. This includes fostering sound use of our land and water resources; protecting our fish, wildlife, and biological diversity; preserving the environmental and cultural values of our national parks and historical places; and providing for the enjoyment of life through outdoor recreation. The Department assesses our energy and mineral resources and works to ensure that their development is in the best interests of all our people by encouraging stewardship and citizen participation in their care. The Department also has a major responsibility for American Indian reservation communities and for people who live in island territories under U.S. administration.

The Minerals Management Service Mission

As a bureau of the Department of the Interior, the Minerals Management Service's (MMS) primary responsibilities are to manage the mineral resources located on the Nation's Outer Continental Shelf (OCS), collect revenue from the Federal OCS and onshore Federal and Indian lands, and distribute those revenues.

Moreover, in working to meet its responsibilities, the **Offshore Minerals Management Program** administers the OCS competitive leasing program and oversees the safe and environmentally sound exploration and production of our Nation's offshore natural gas, oil and other mineral resources. The MMS **Minerals Revenue Management** meets its responsibilities by ensuring the efficient, timely and accurate collection and disbursement of revenue from mineral leasing and production due to Indian tribes and allottees, States and the U.S. Treasury.

The MMS strives to fulfill its responsibilities through the general guiding principles of: (1) being responsive to the public's concerns and interests by maintaining a dialogue with all potentially affected parties and (2) carrying out its programs with an emphasis on working to enhance the quality of life for all Americans by lending MMS assistance and expertise to economic development and environmental protection.