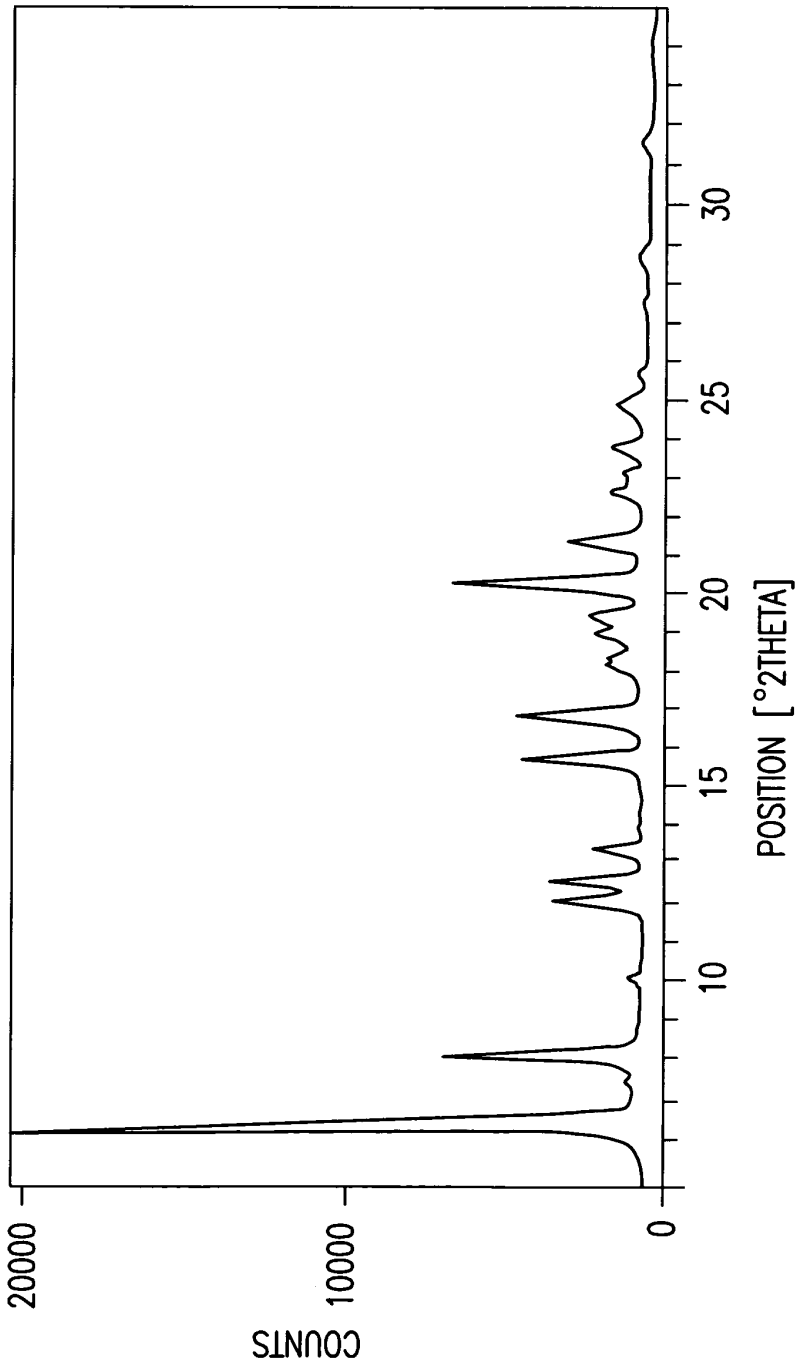


FIG. 1

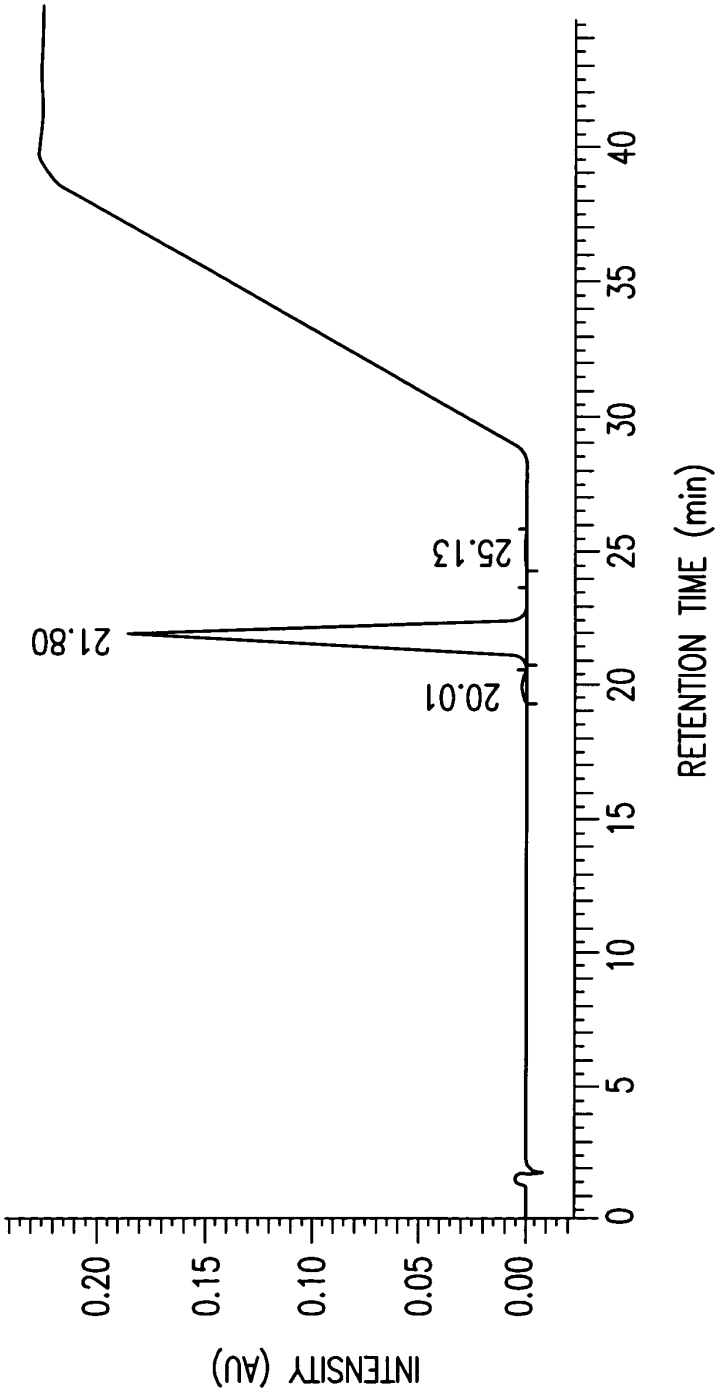

INTENSITY (AU)
0.00
0.05
0.10
0.15
0.20
RETENTION TIME (min)
0
5
10
15
20
25
30
35
40
20.01
21.80
25.13

FIG.2

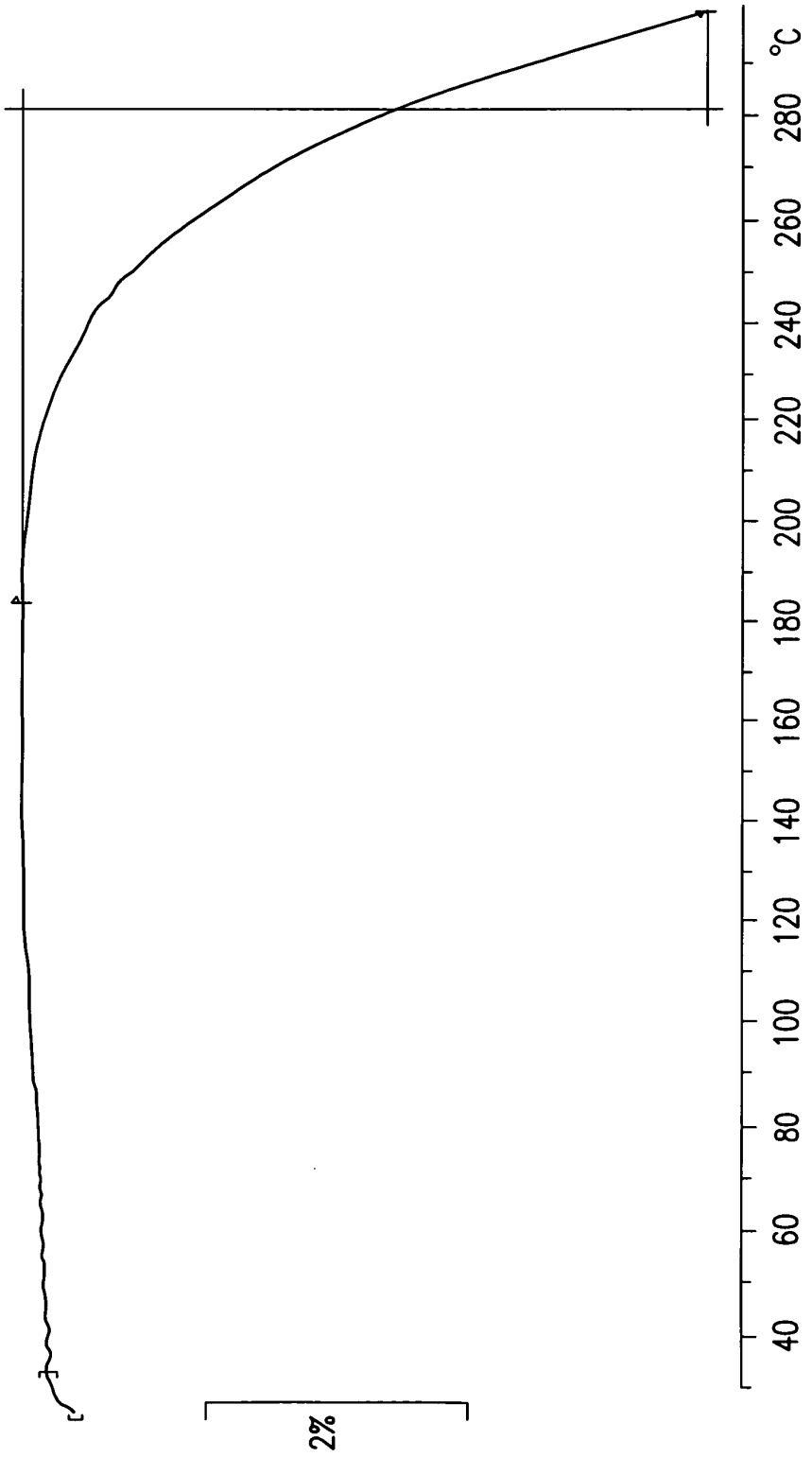


FIG.3

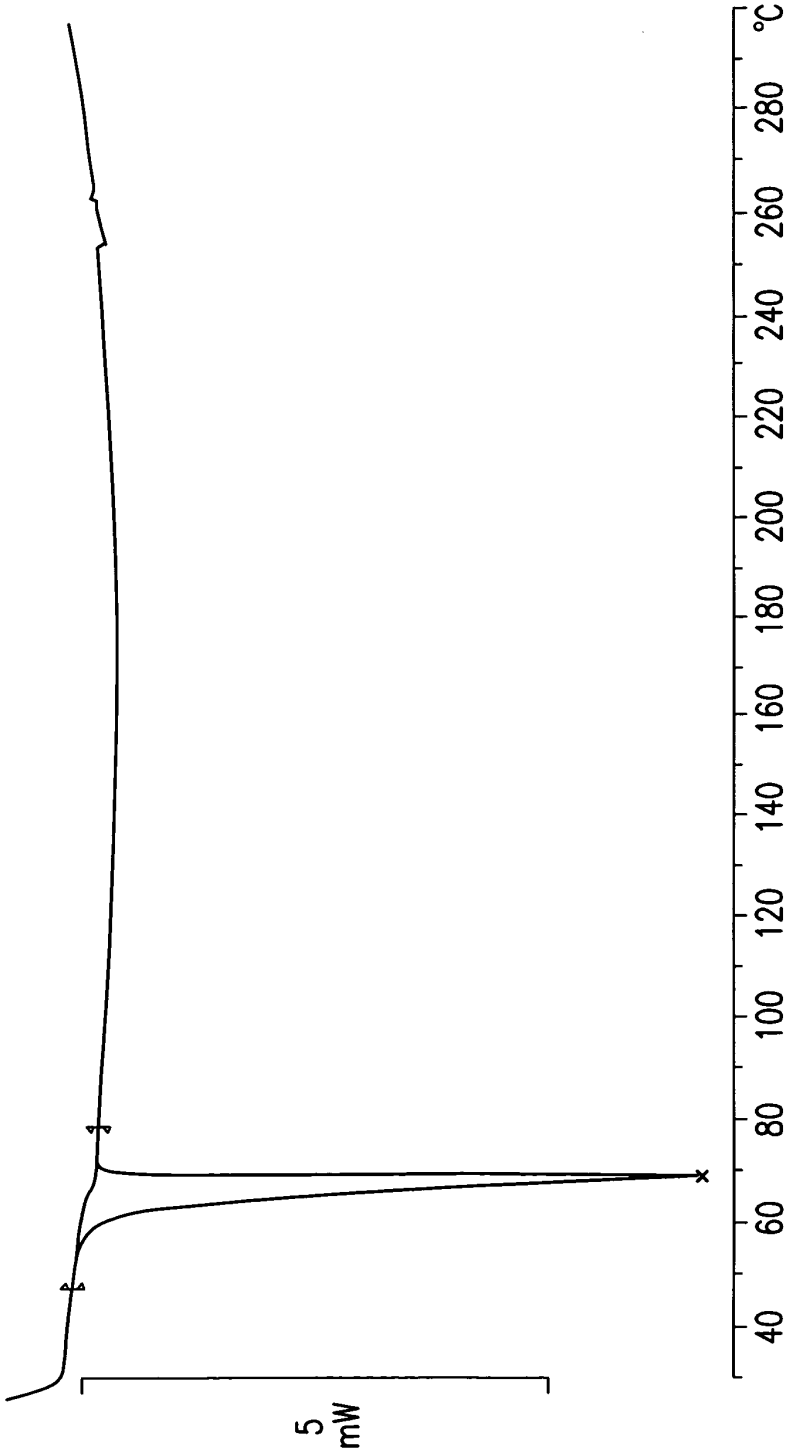


FIG.4

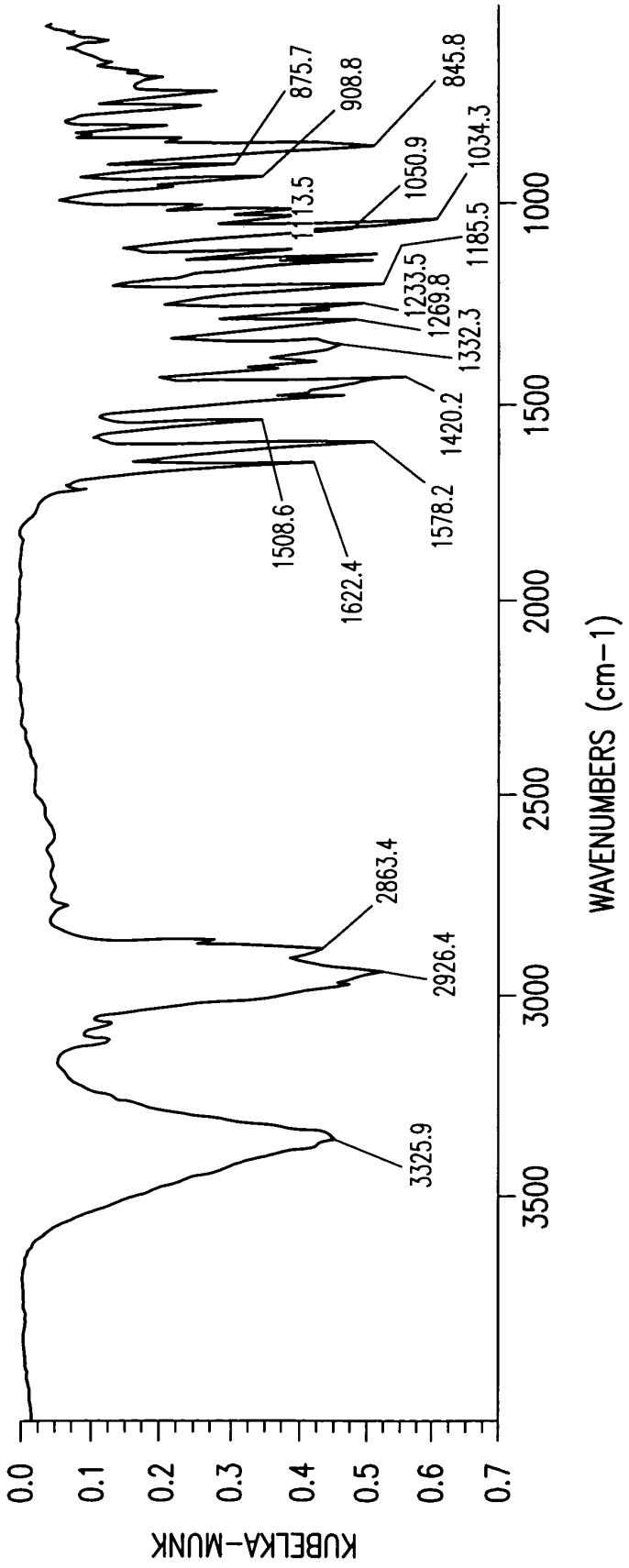

KUBELKA-MUNK
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
WAVENUMBERS (cm-1)
3500
3000
2500
2000
1500
1000
3325.9
2926.4
2863.4
1622.4
1508.6
1578.2
1420.2
1332.3
1269.8
1233.5
1185.5
1113.5
1050.9
1034.3
845.8
908.8
875.7

FIG.5A

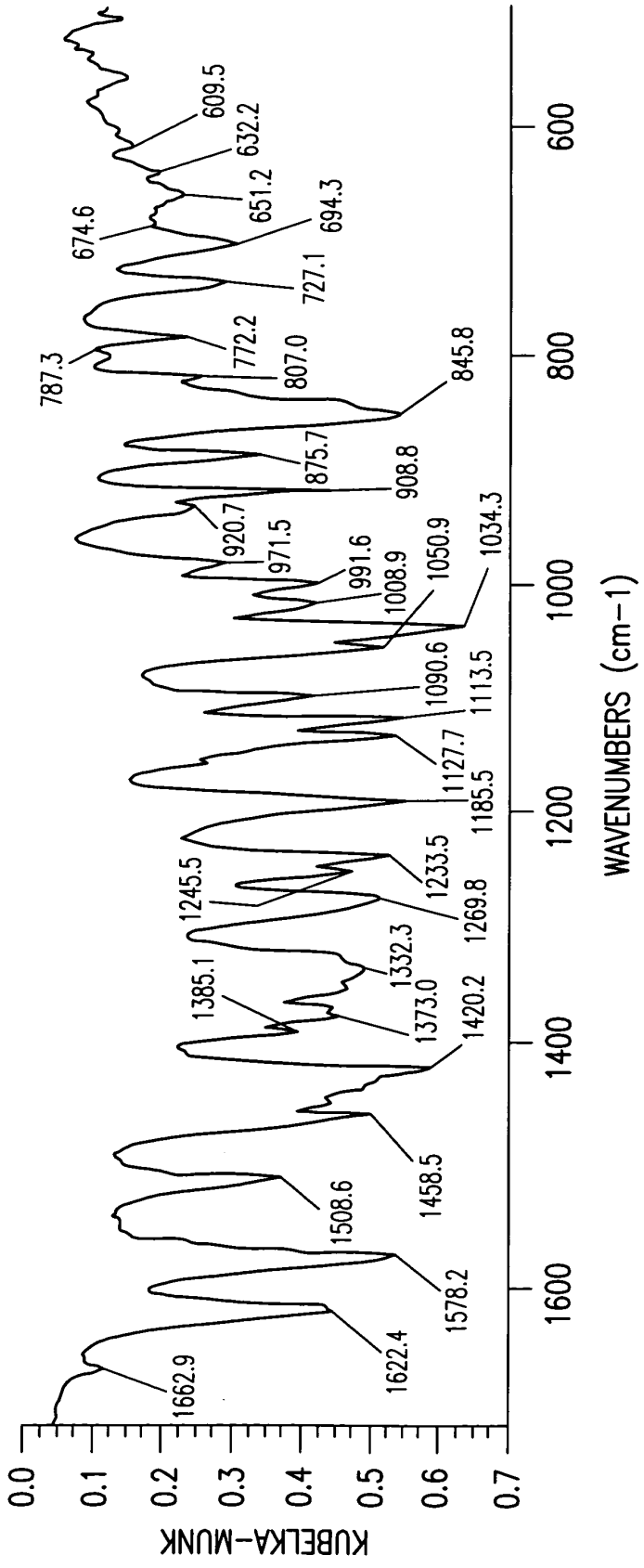

KUBELKA-MUNK
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1600
1400
1200
1000
800
600
WAVENUMBERS (cm-1)
1662.9
1622.4
1578.2
1508.6
1458.5
1420.2
1385.1
1373.0
1332.3
1269.8
1245.5
1233.5
1185.5
1127.7
1113.5
1090.6
1050.9
1034.3
1008.9
991.6
971.5
920.7
908.8
875.7
845.8
807.0
787.3
772.2
727.1
694.3
674.6
651.2
632.2
609.5

FIG.5B

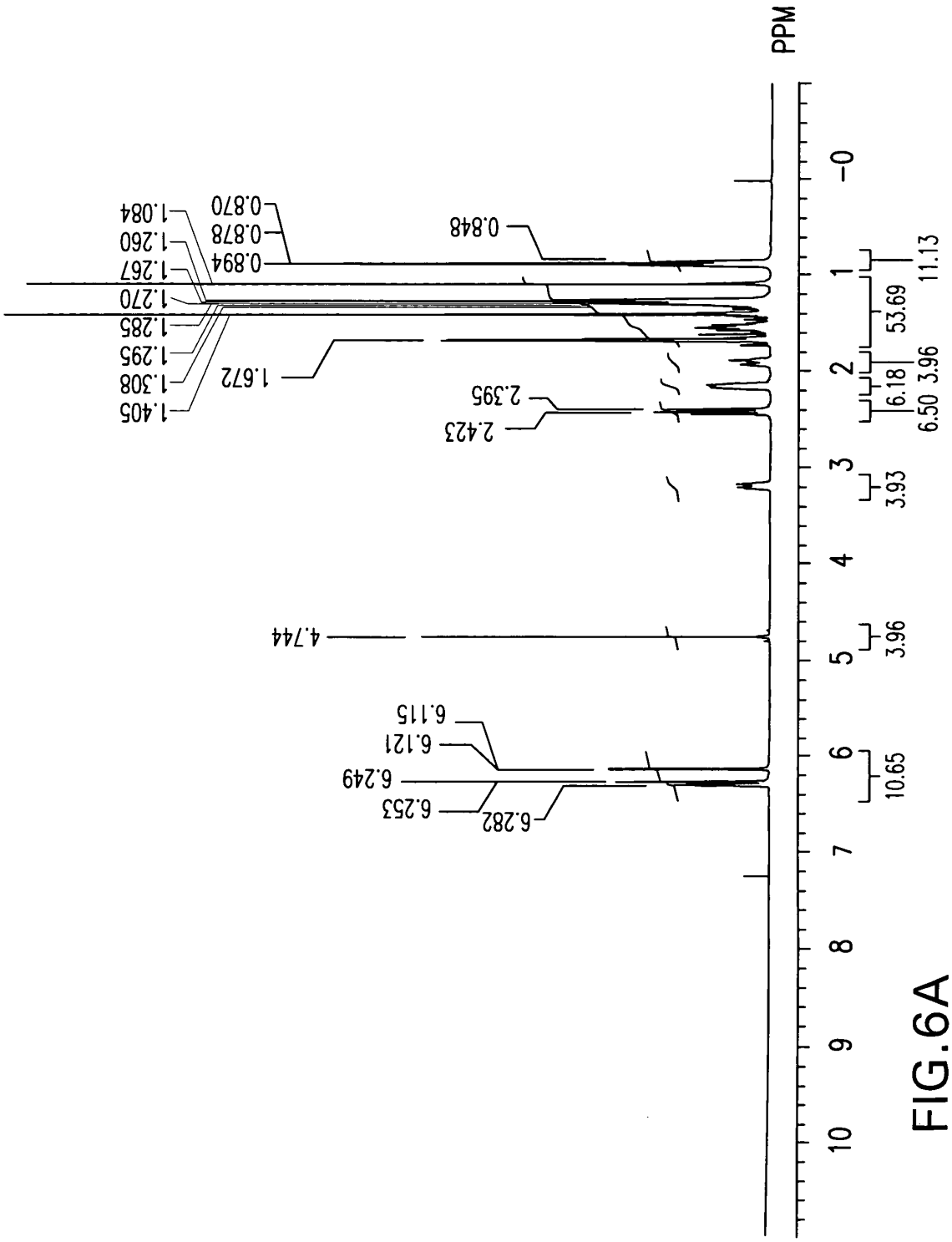

PPM
0
1
2
3
4
5
6
7
8
9
10
0.848
0.870
0.878
0.894
1.084
1.260
1.267
1.270
1.285
1.295
1.308
1.405
1.672
2.395
2.423
4.744
6.115
6.121
6.249
6.253
6.282
11.13
53.69
6.18
3.96
6.50
3.93
3.96
10.65

FIG.6A

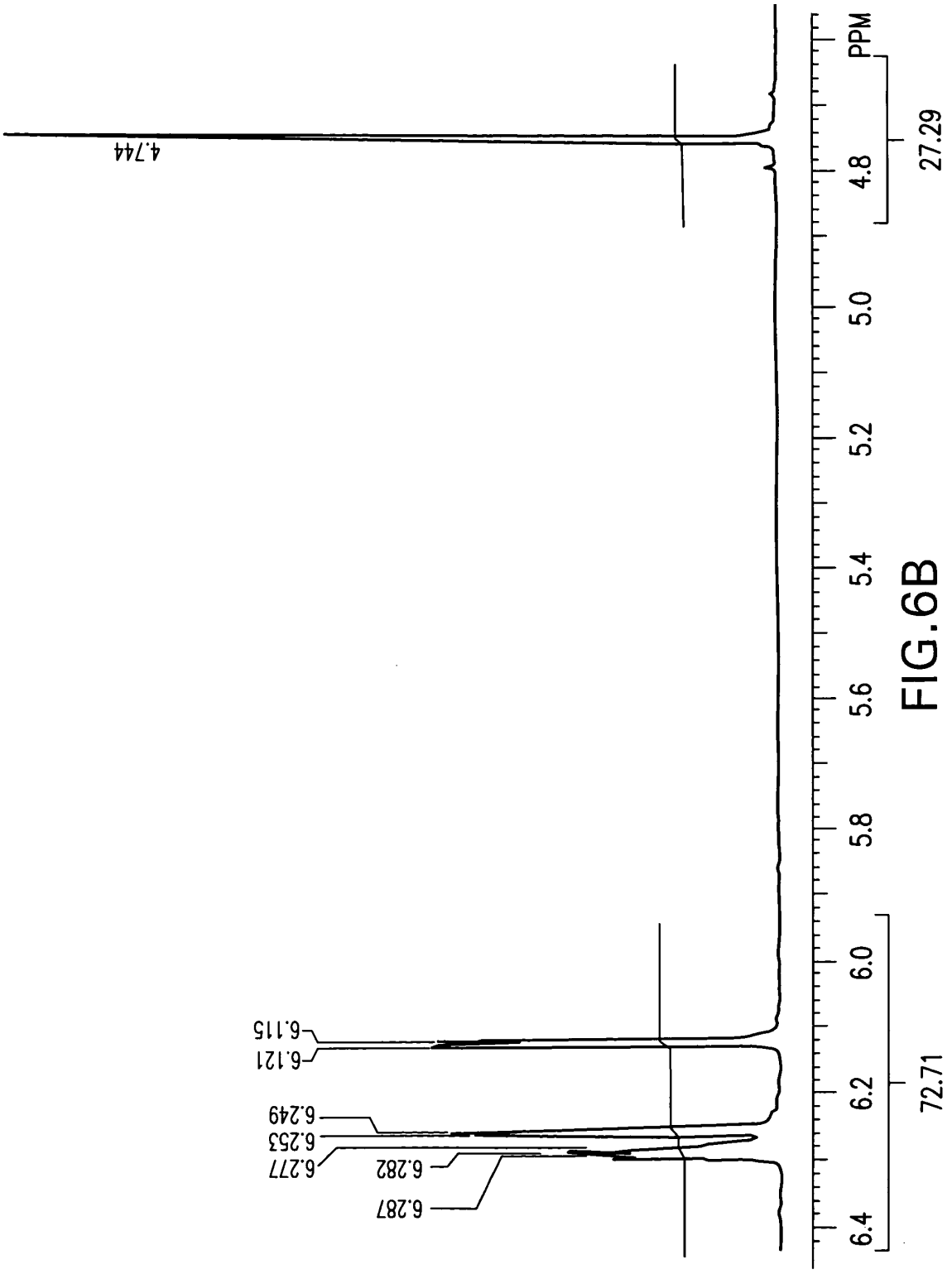

4.744
6.115
6.121
6.249
6.253
6.277
6.282
6.287
PPM
4.8
5.0
5.2
5.4
5.6
5.8
6.0
6.2
6.4
27.29
72.71

FIG.6B

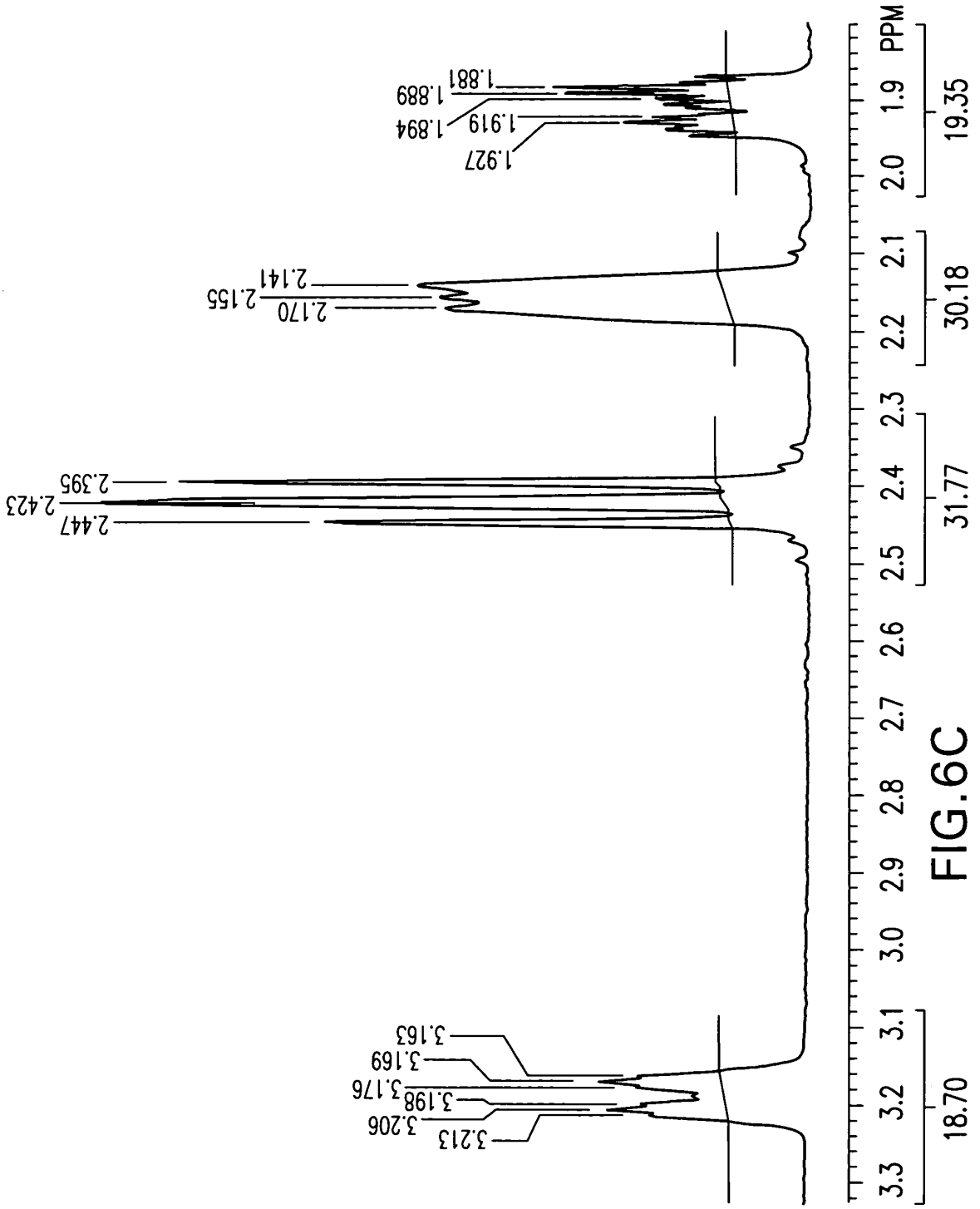

3.213
3.206
3.198
3.176
3.169
3.163
2.447
2.423
2.395
2.170
2.155
2.141
1.927
1.919
1.894
1.889
1.881
PPM
3.3
3.2
3.1
3.0
2.9
2.8
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2.0
1.9
18.70
31.77
30.18
19.35

FIG.6C

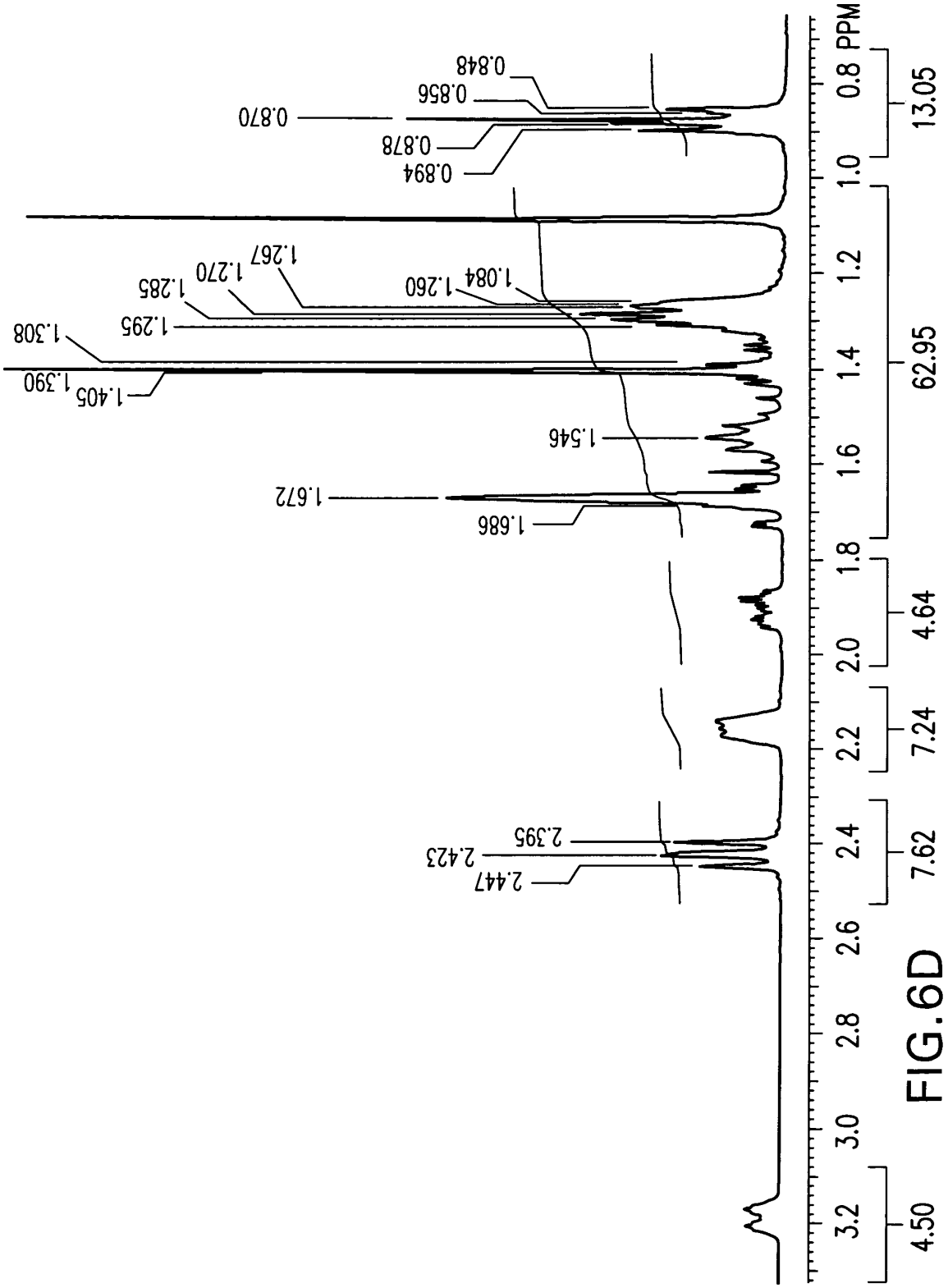
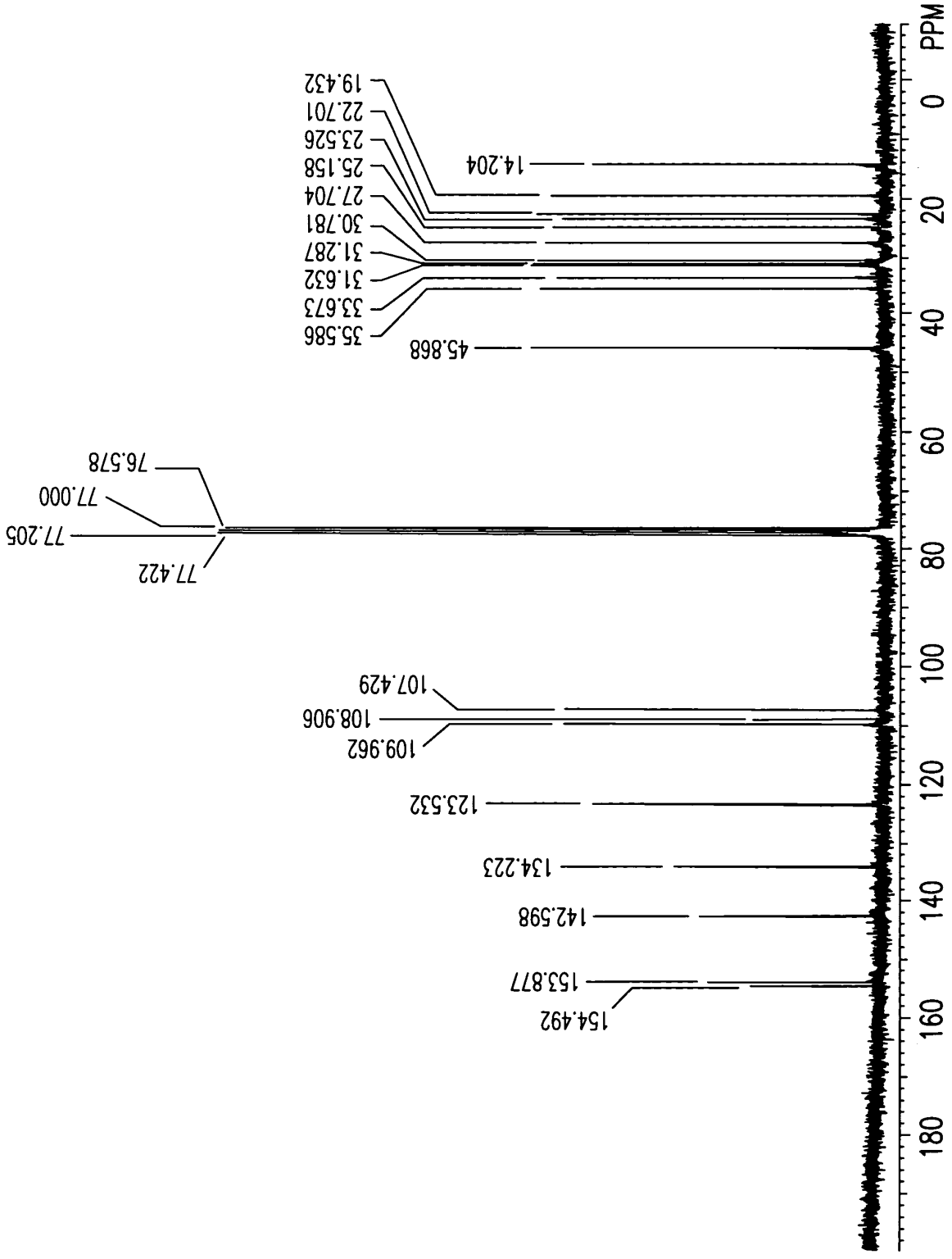

0.848
0.856
0.870
0.878
0.894
1.084
1.260
1.267
1.270
1.285
1.295
1.308
1.390
1.405
1.546
1.672
1.686
2.395
2.423
2.447
PPM
0.8
1.0
1.2
1.4
1.6
1.8
2.0
2.2
2.4
2.6
2.8
3.0
3.2
13.05
62.95
4.64
7.24
7.62
4.50

FIG.6D

FIG.7A


PPM
0
20
40
60
80
100
120
140
160
180
14.204
19.432
22.701
23.526
25.158
27.704
30.781
31.287
31.632
33.673
35.586
45.868
76.578
77.000
77.205
77.422
107.429
108.906
109.962
123.532
134.223
142.598
153.877
154.492

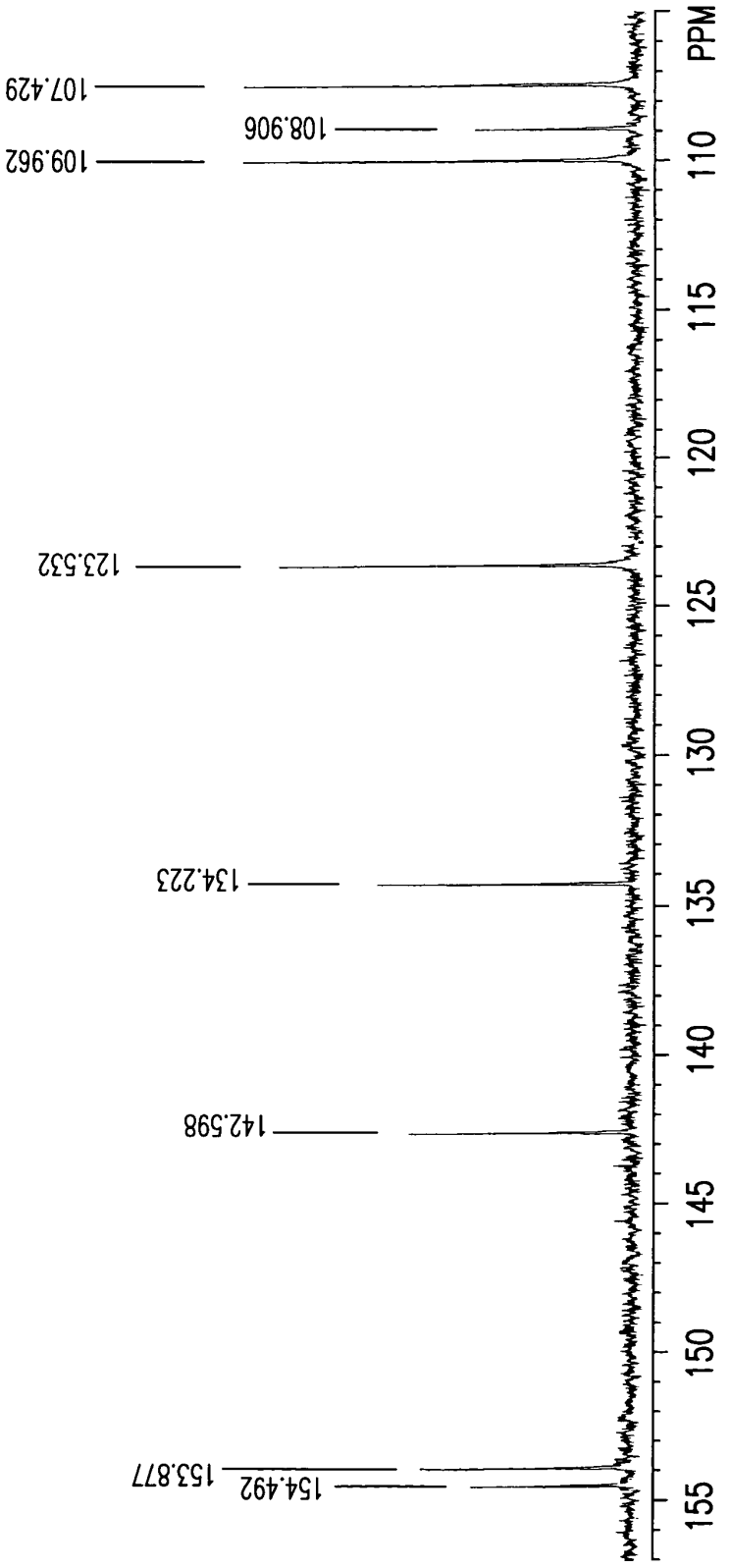

107.429
108.906
109.962
123.532
134.223
142.598
153.877
154.492
PPM
110
115
120
125
130
135
140
145
150
155

FIG.7B

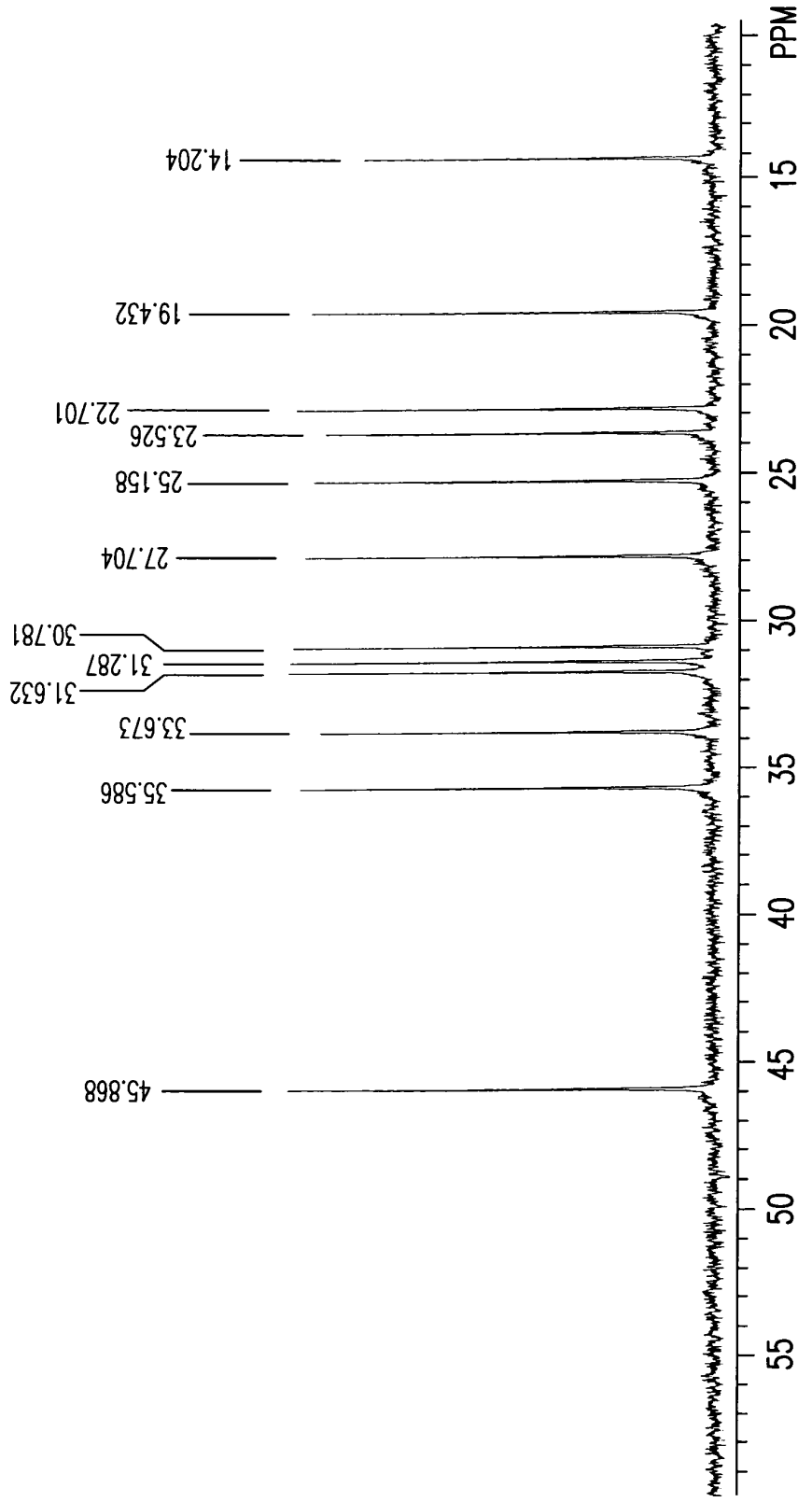

14.204
19.432
22.701
23.526
25.158
27.704
30.781
31.287
31.632
33.673
35.586
45.868
PPM
15
20
25
30
35
40
45
50
55

FIG.7C

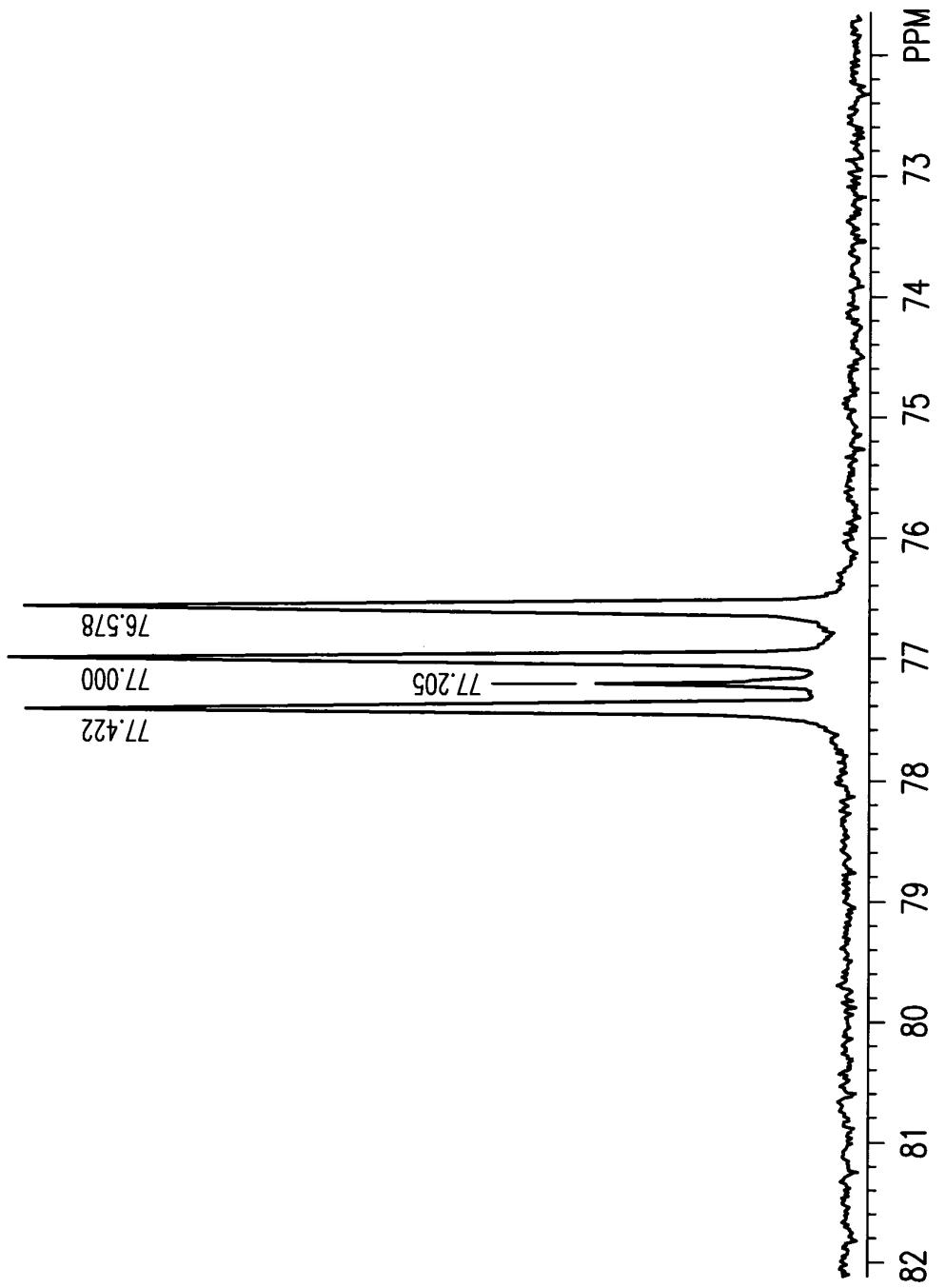


FIG.7D