FIG 1

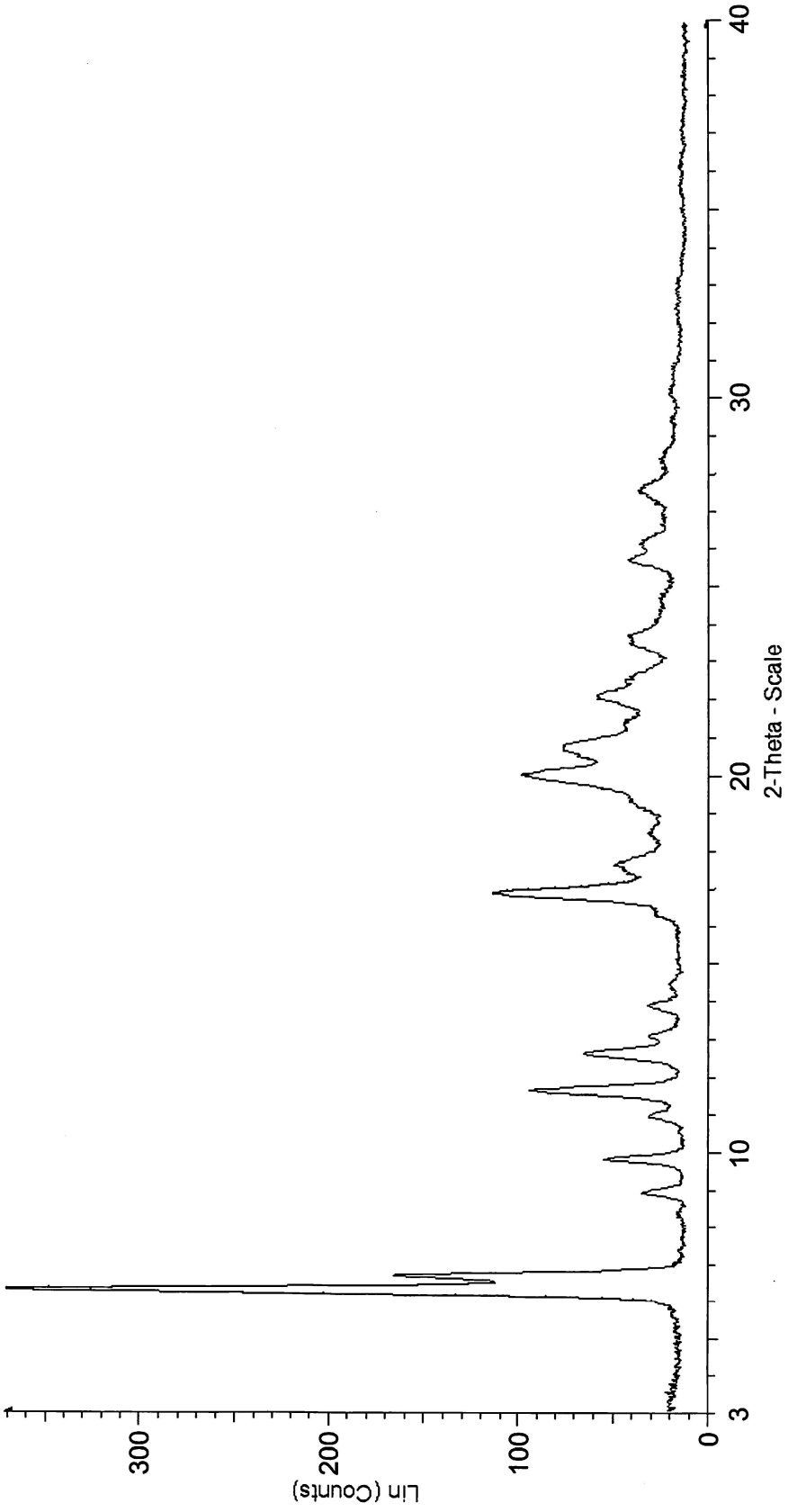


FIG2

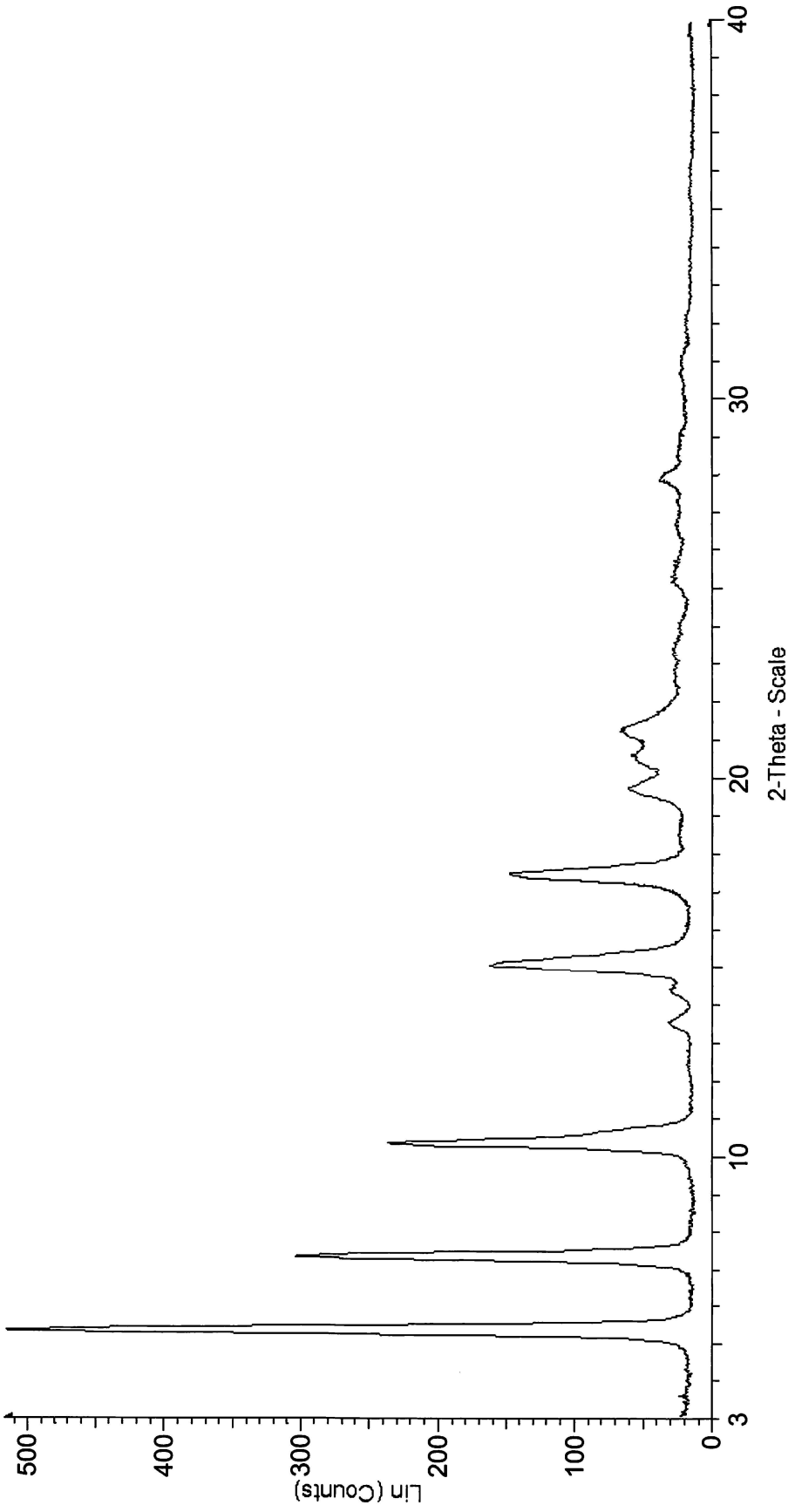


FIG 3

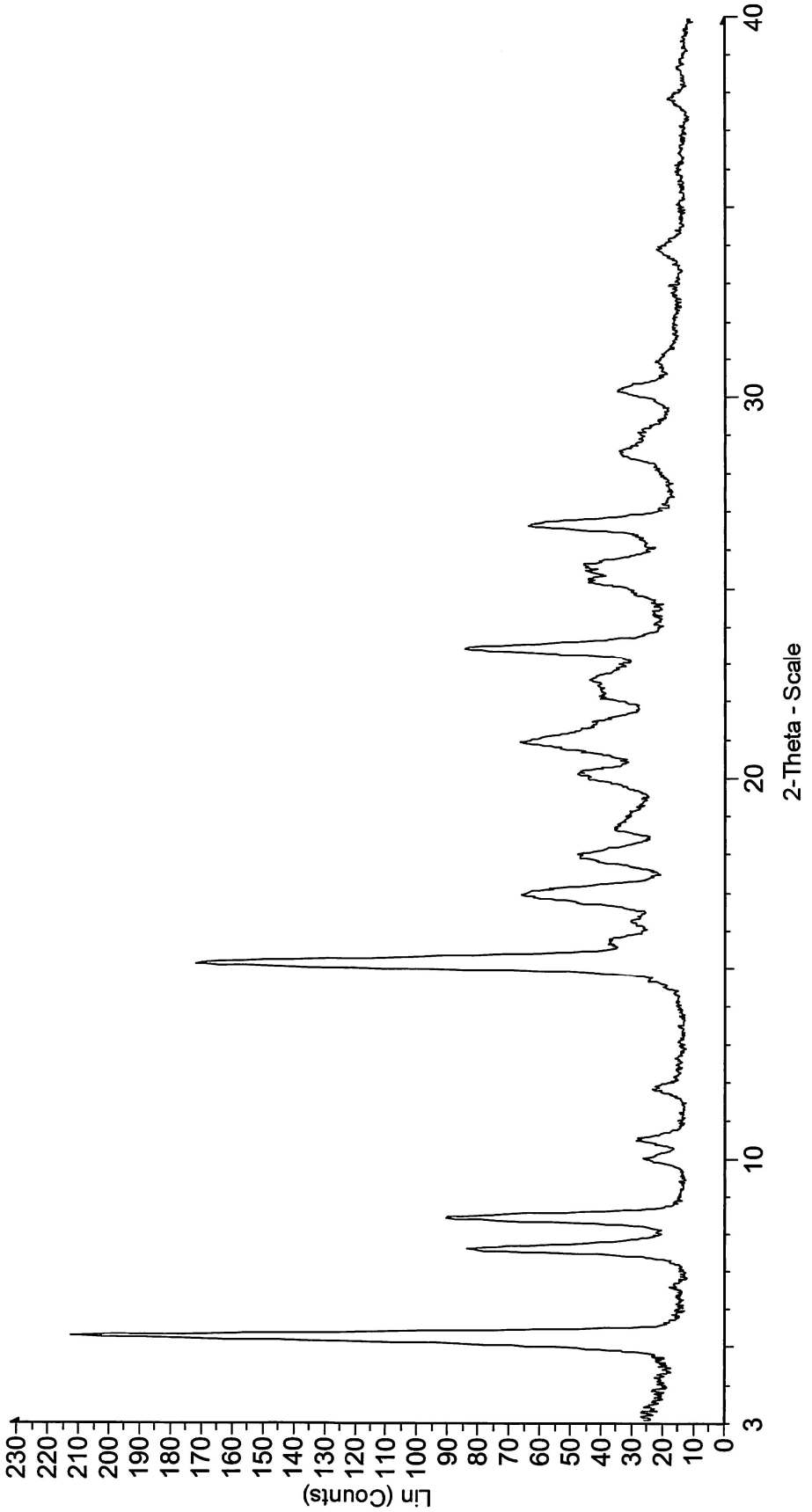

Lin (Counts)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
3
10
20
30
40
2-Theta - Scale

FIG 4

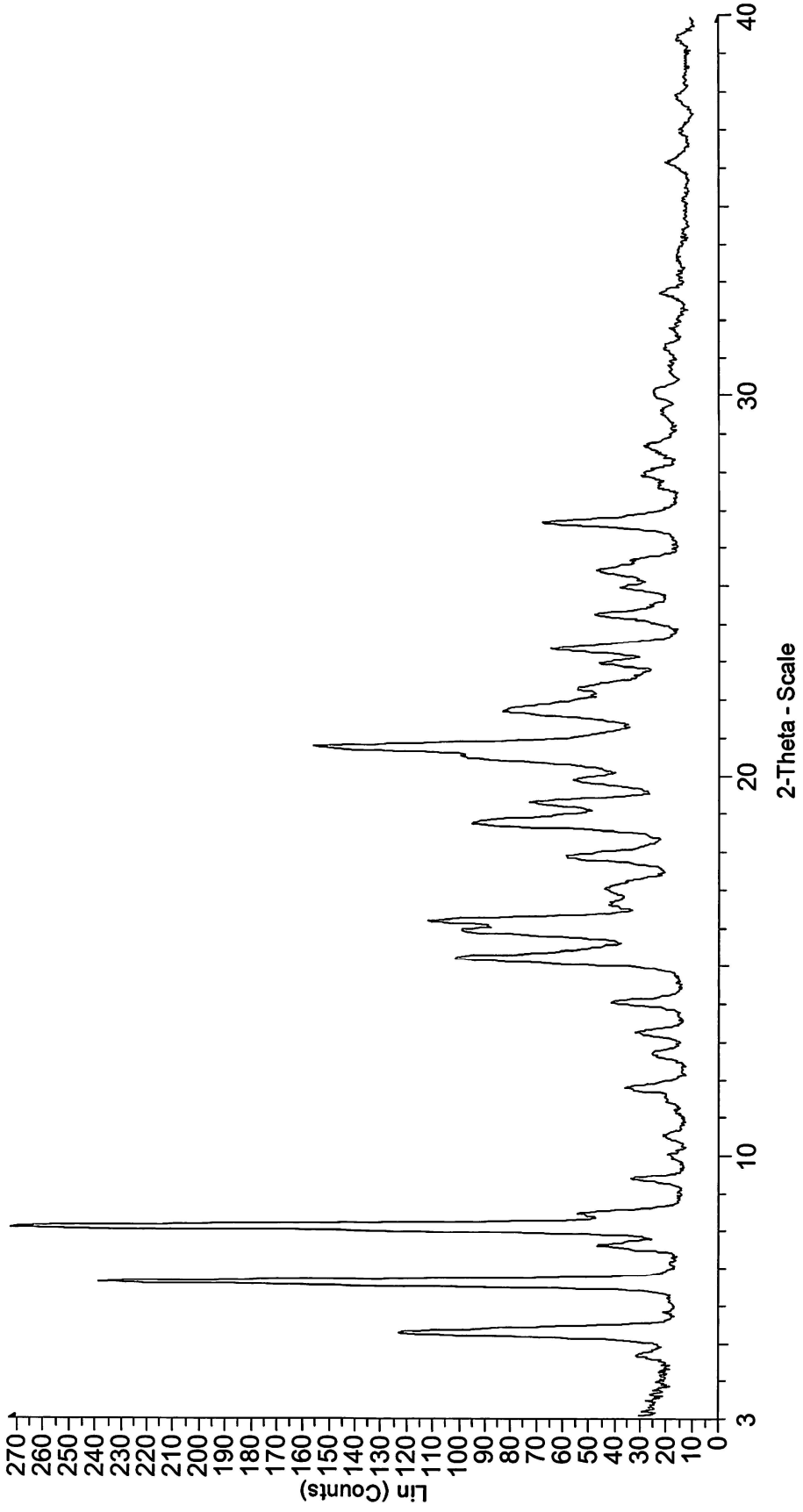

Lin (Counts)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
220
230
240
250
260
270
3
10
20
30
40
2-Theta - Scale

FIG 5

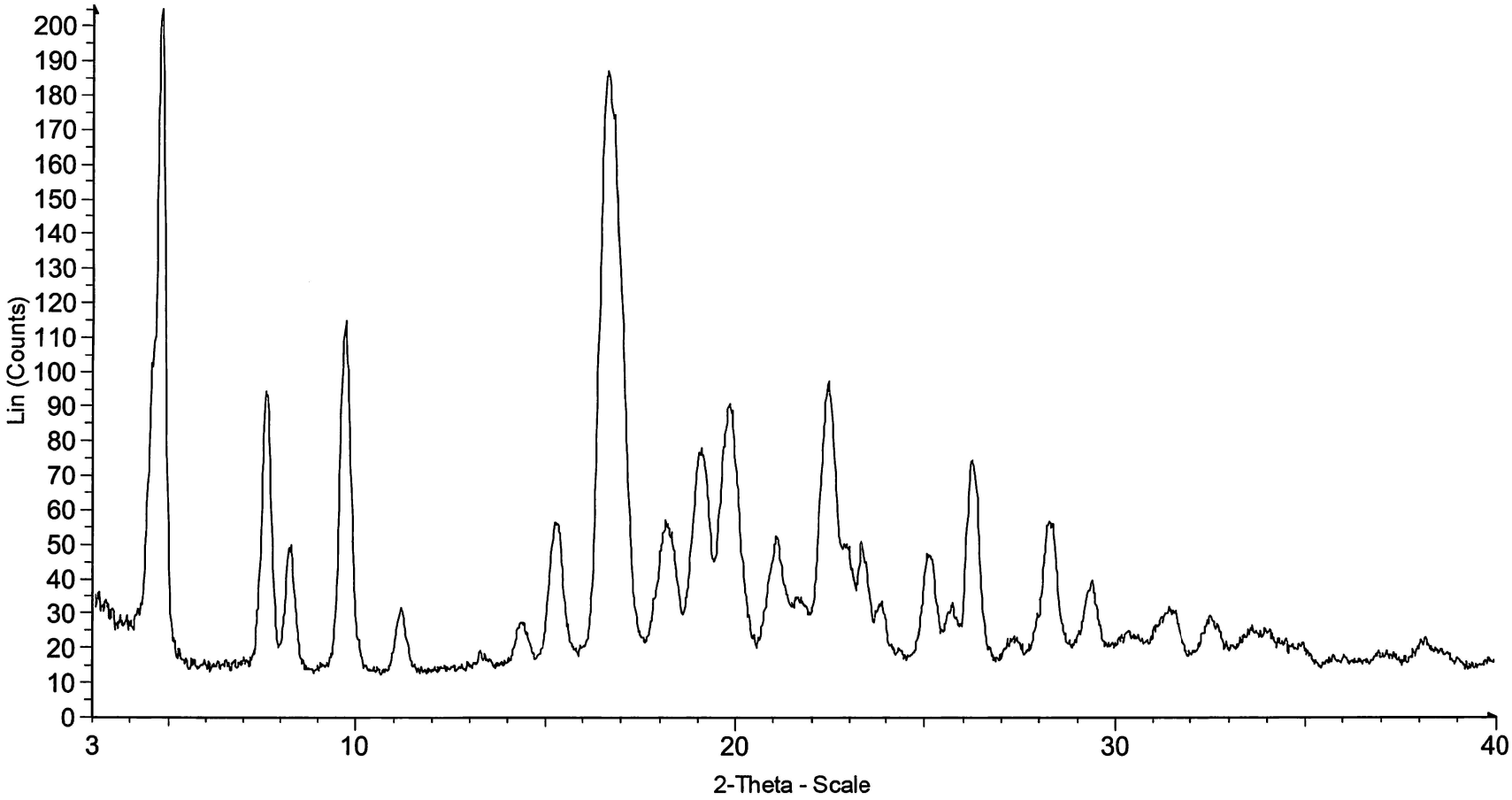

Lin (Counts)
200
190
180
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
3
10
20
30
40
2-Theta - Scale

FIG 6

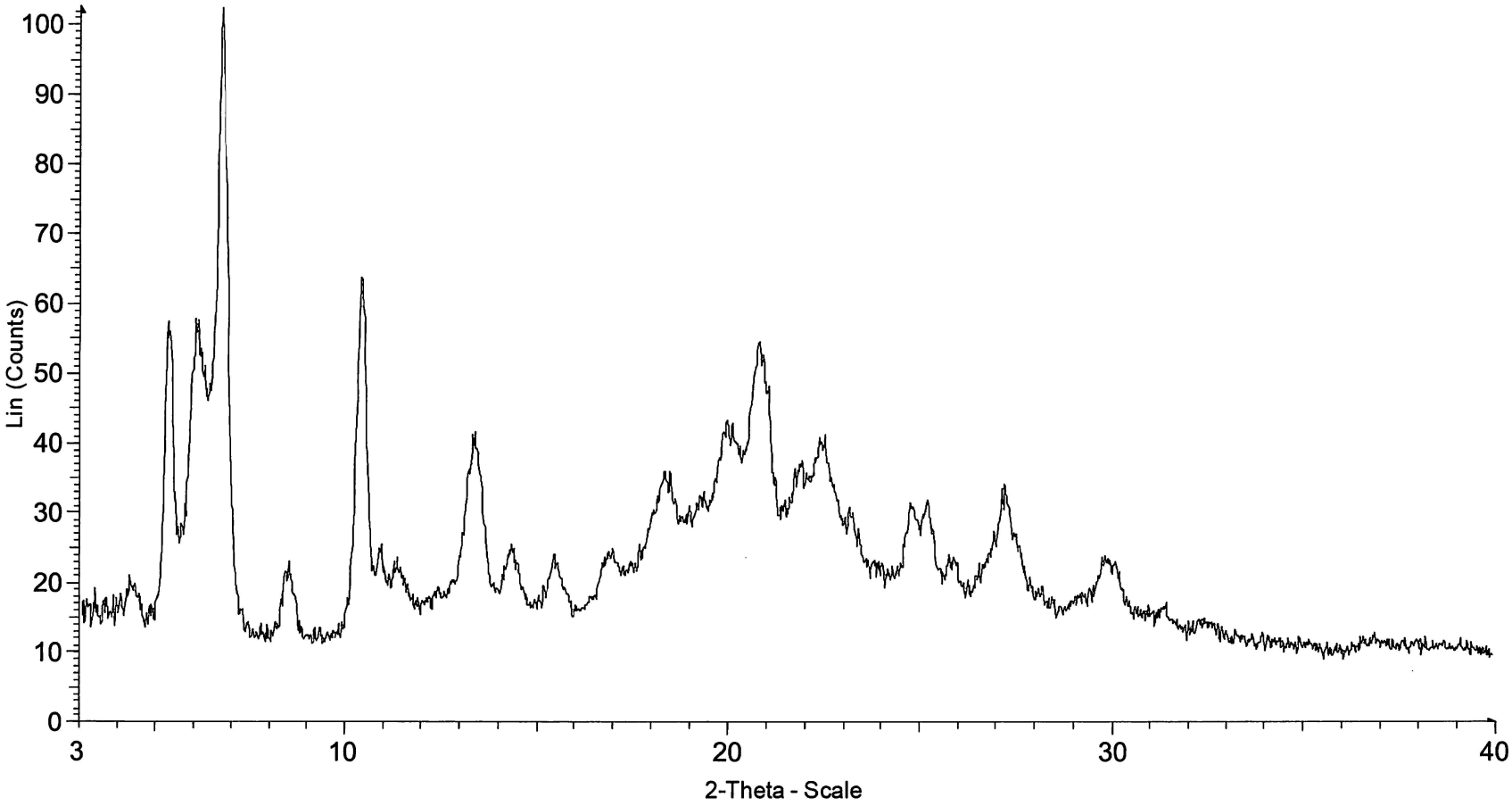

Lin (Counts)
100
90
80
70
60
50
40
30
20
10
0
3
10
20
30
40
2-Theta - Scale

FIG 7

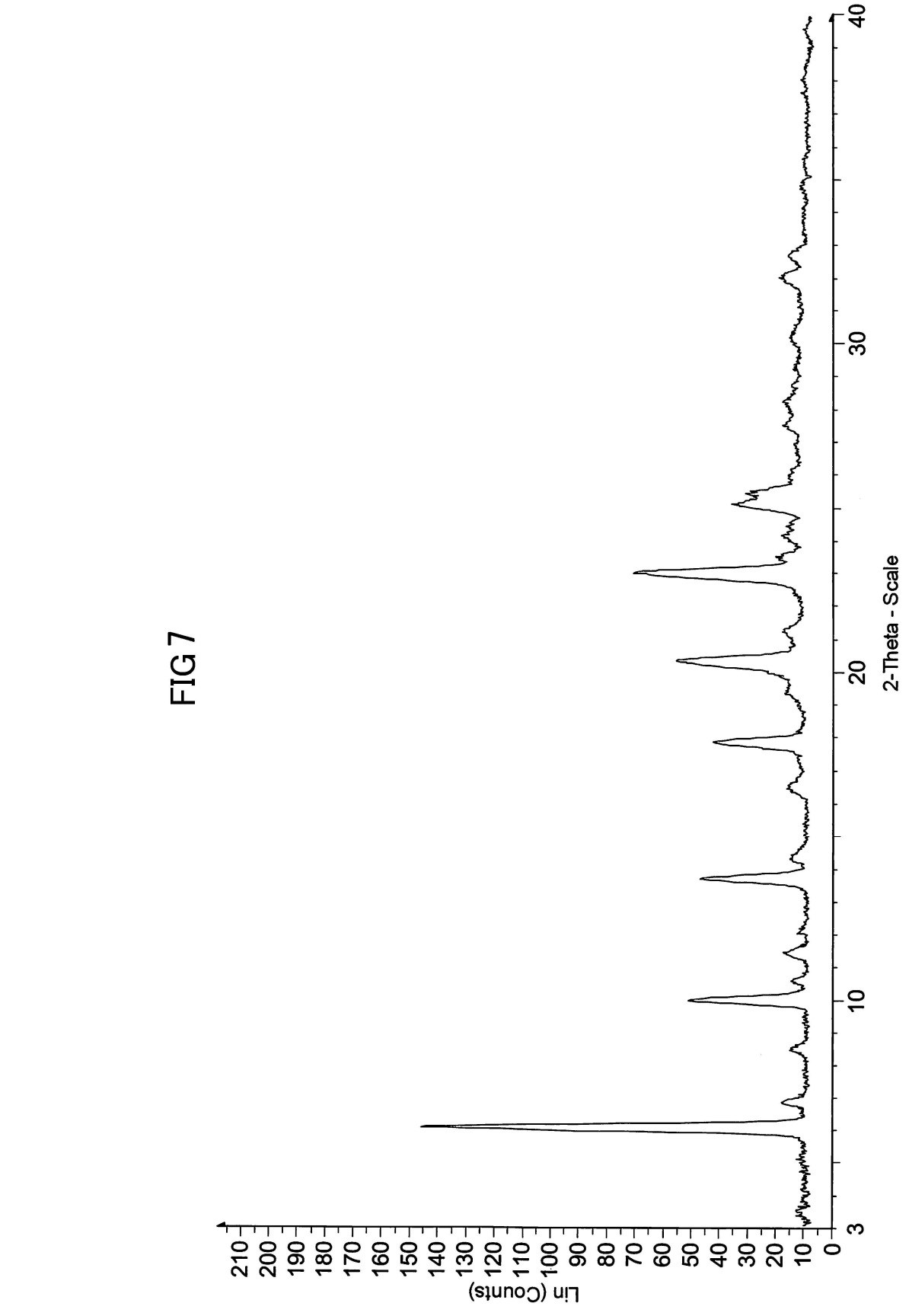

Lin (Counts)
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170
180
190
200
210
3
10
20
30
40
2-Theta - Scale

FIG 8

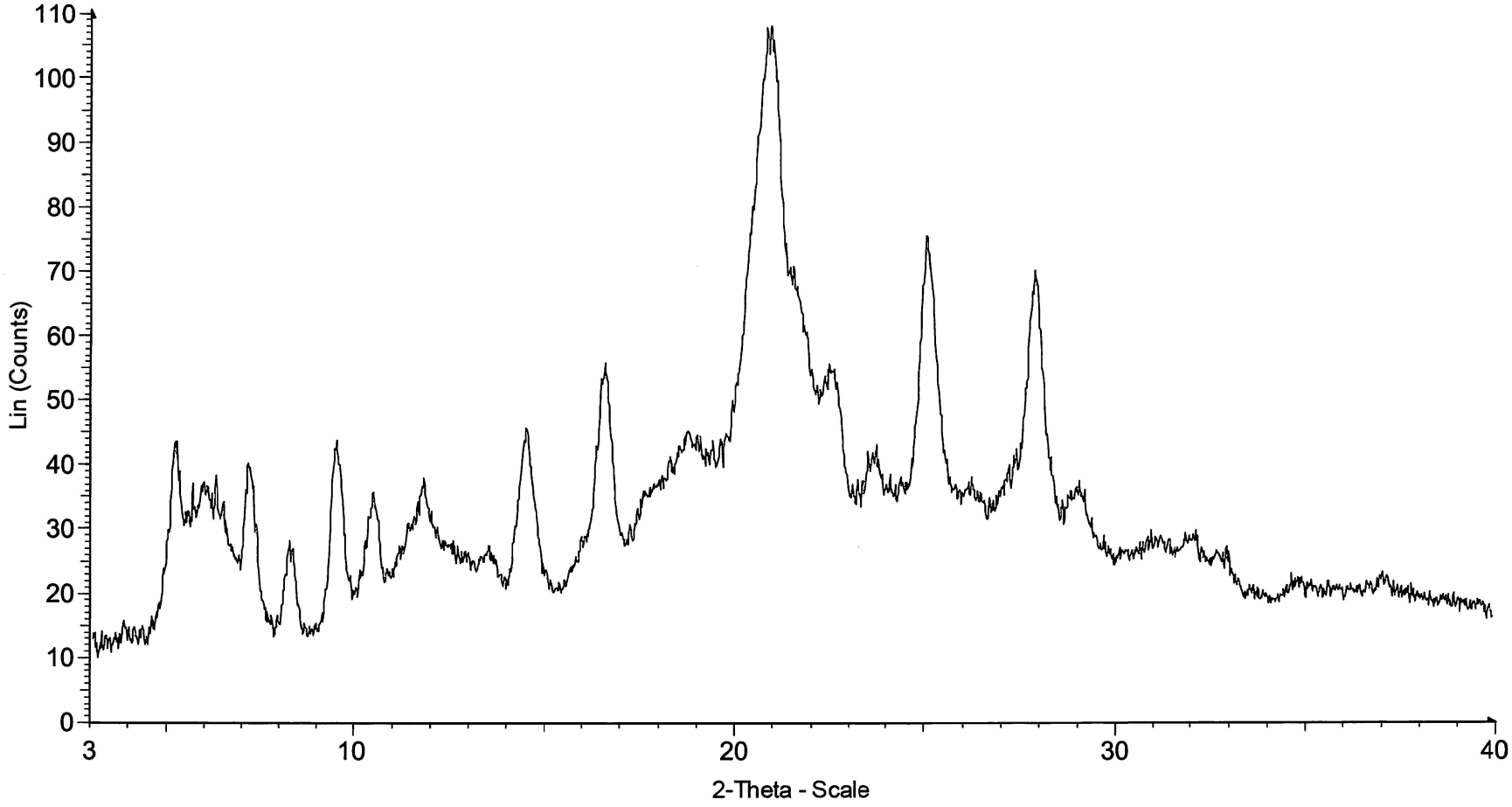

Lin (Counts)
110
100
90
80
70
60
50
40
30
20
10
0
3
10
20
30
40
2-Theta - Scale

FIG 9

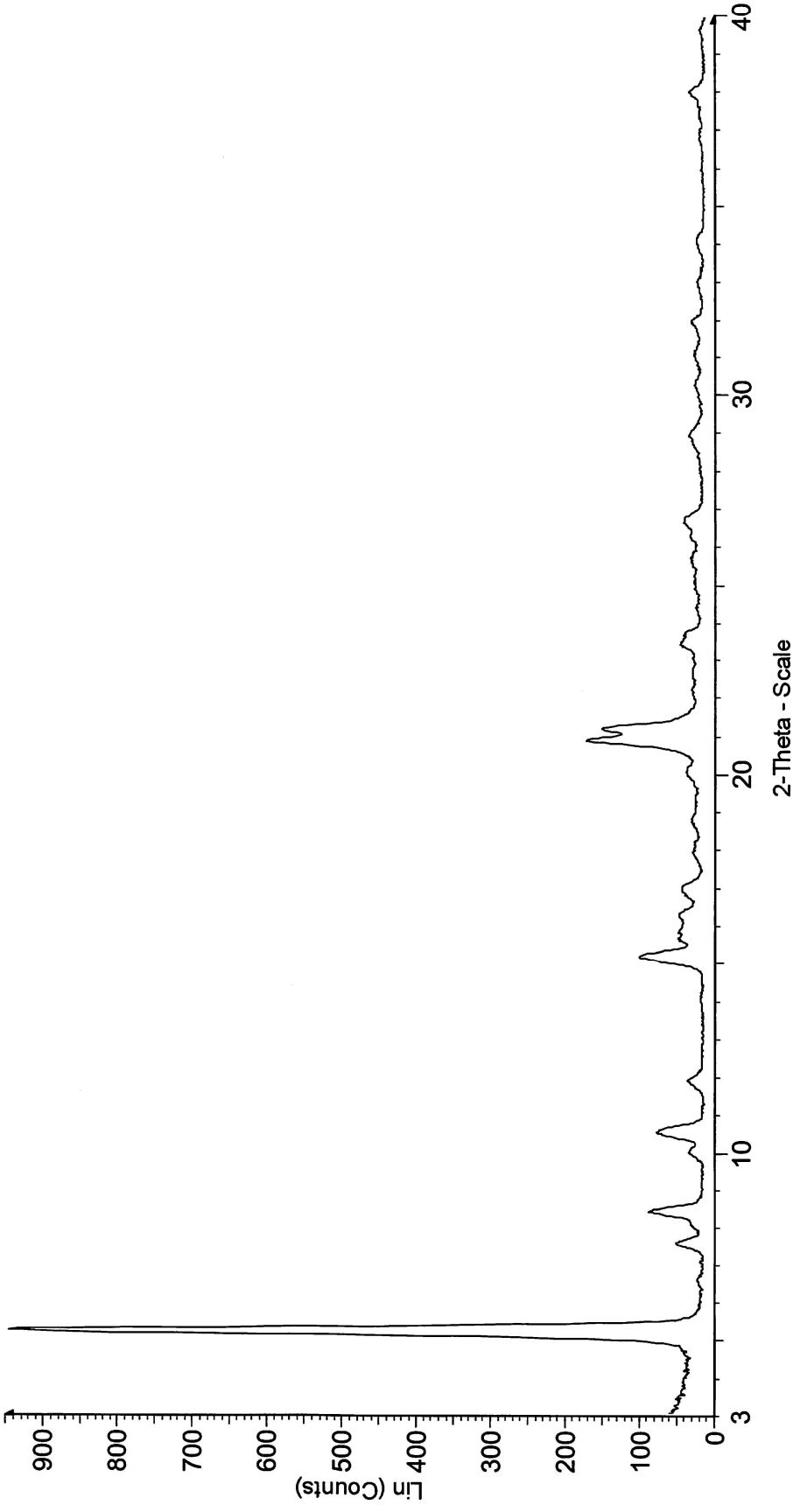

Lin (Counts)
0
100
200
300
400
500
600
700
800
900
3
10
20
30
40
2-Theta - Scale

FIG10

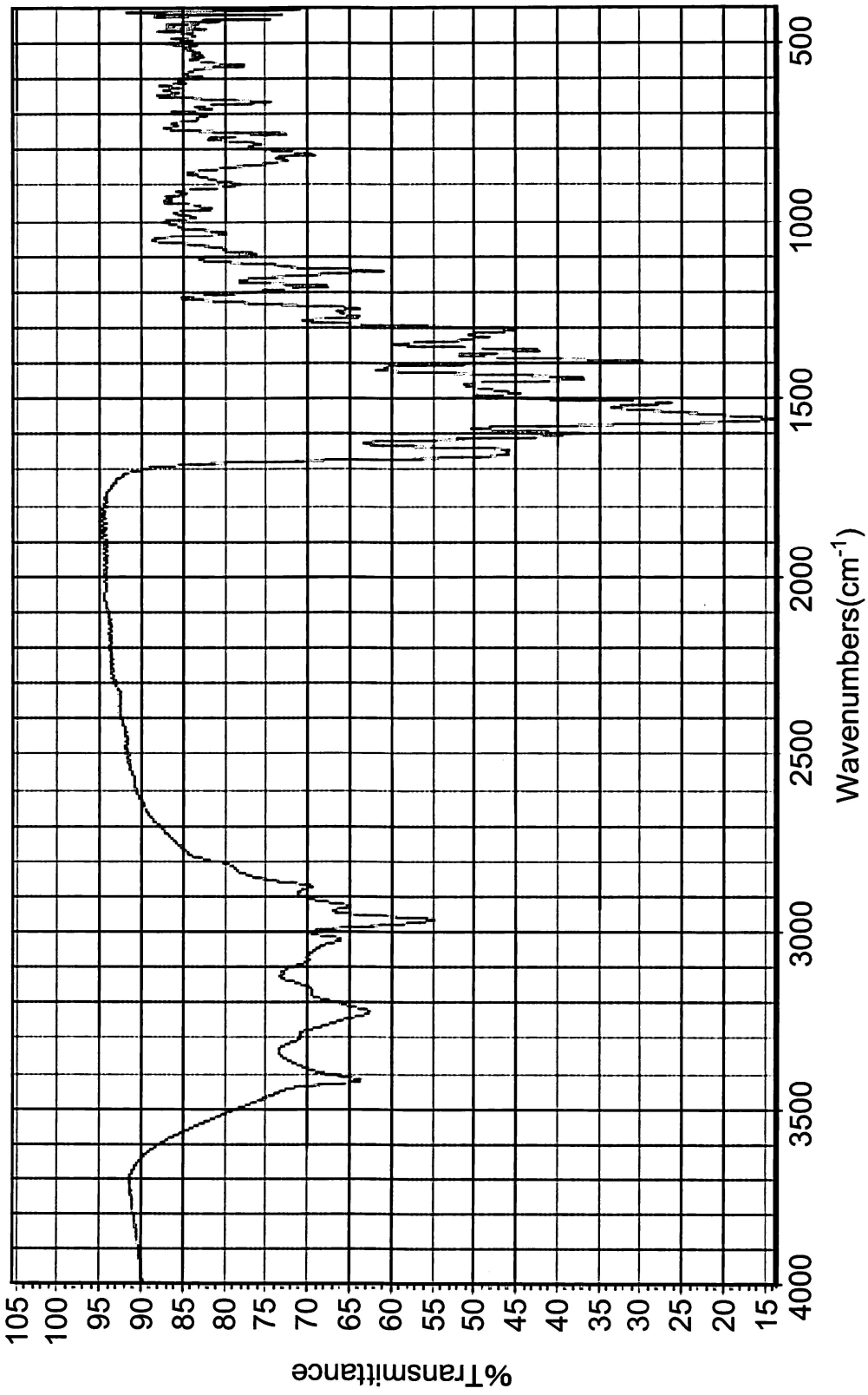

%Transmittance
105
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers(cm-1)

FIG11

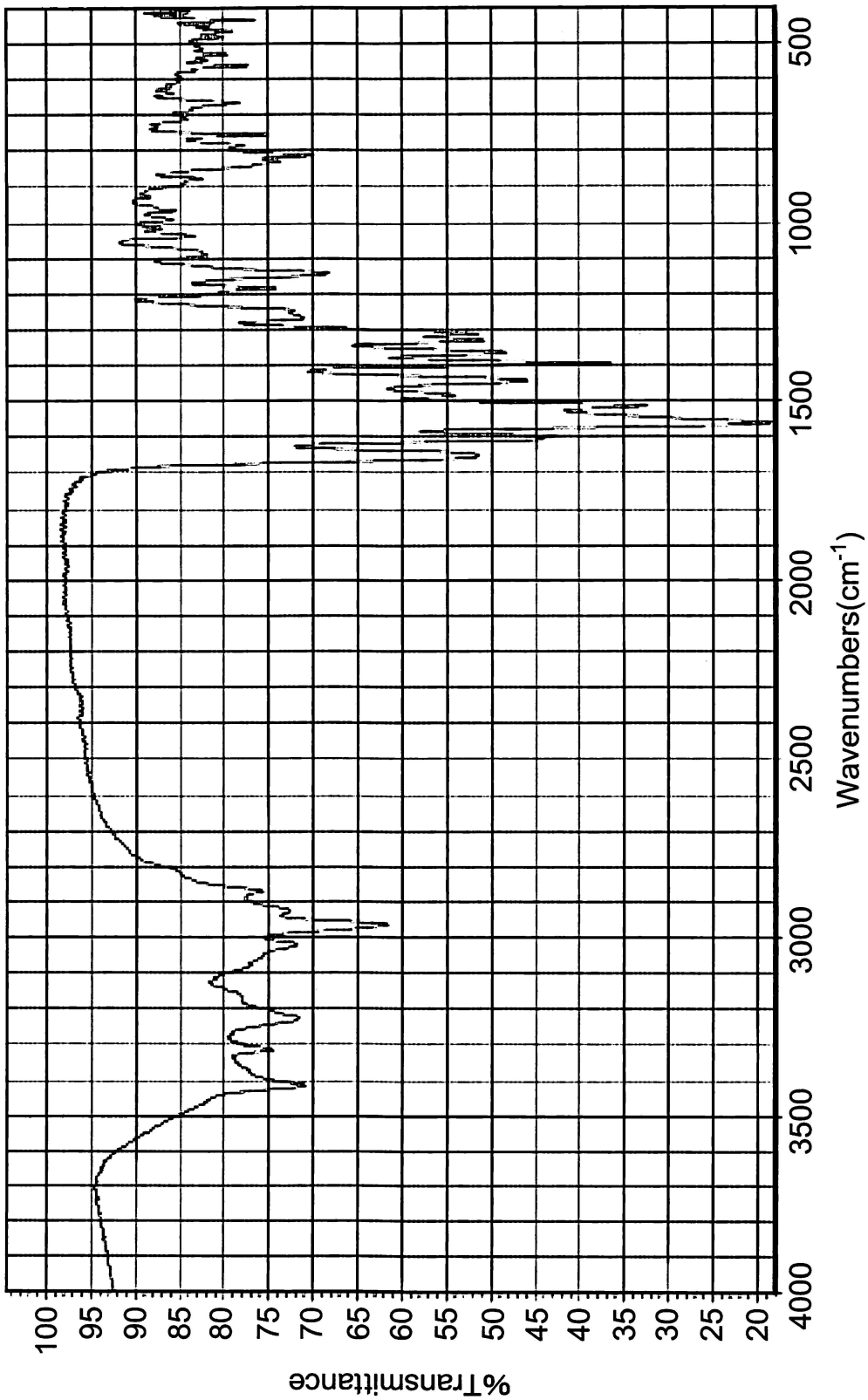

%Transmittance
100
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers(cm-1)

FIG 12

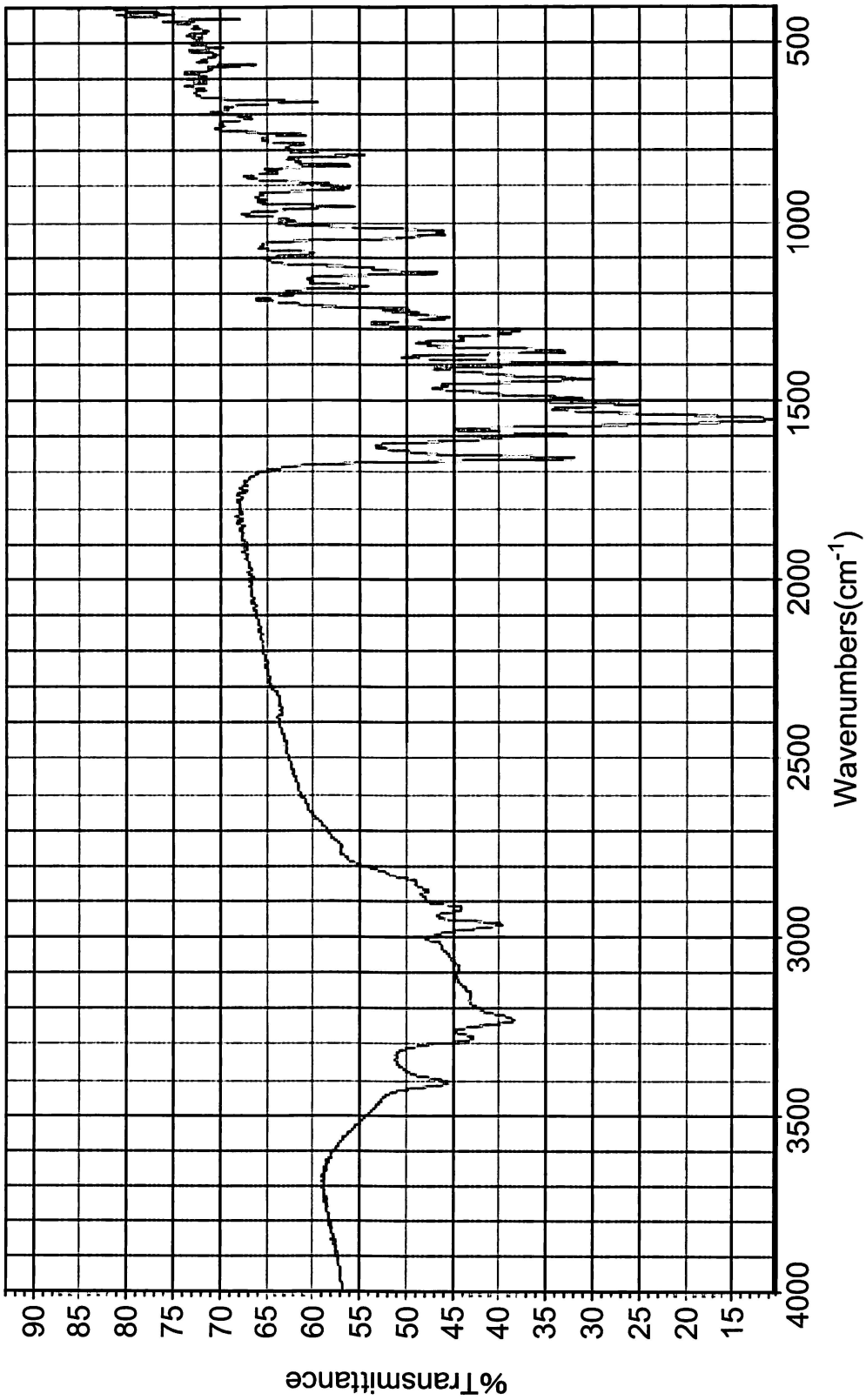

%Transmittance
90
85
80
75
70
65
60
55
50
45
40
35
30
25
20
15
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers(cm-1)

FIG13

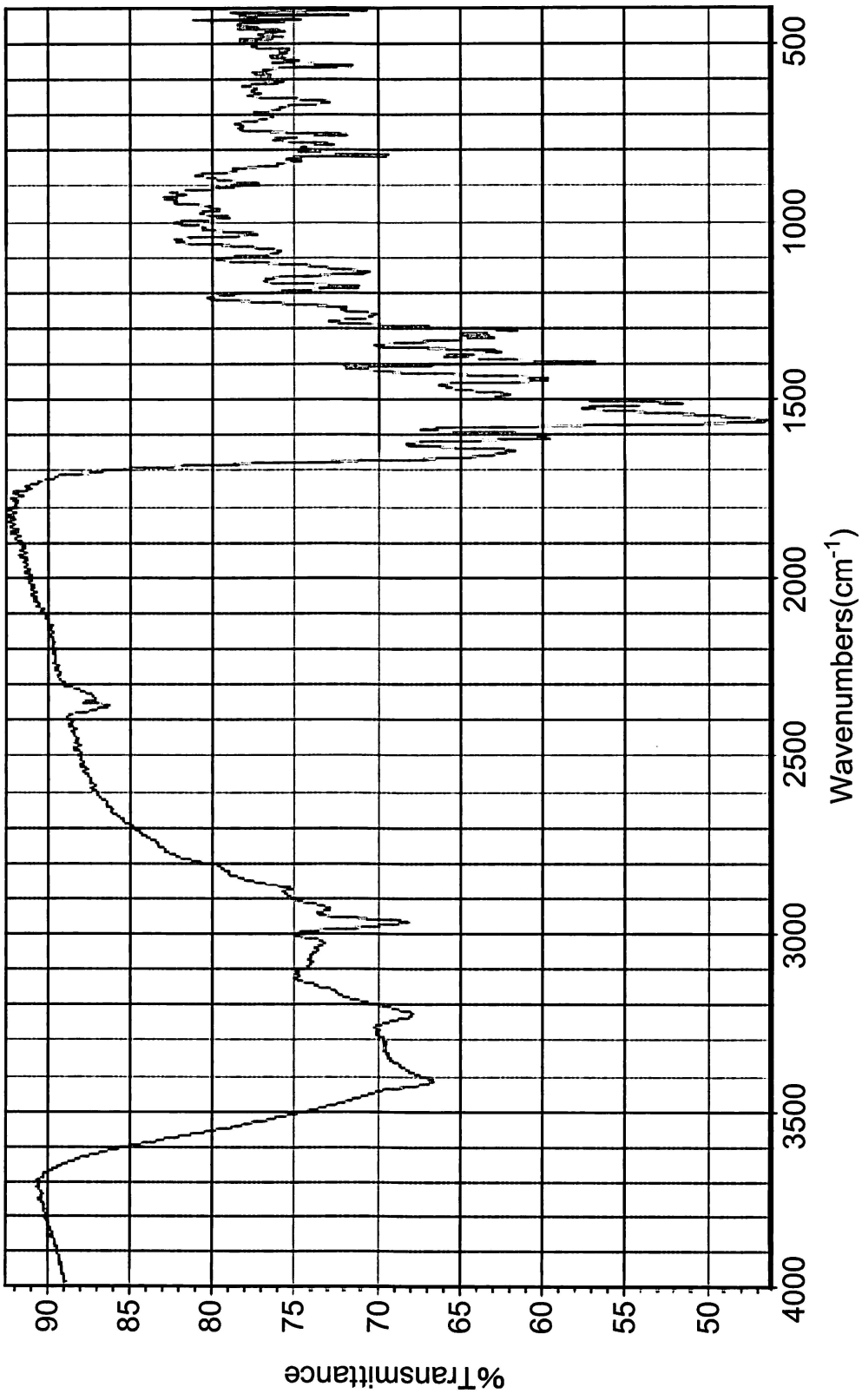

%Transmittance
90
85
80
75
70
65
60
55
50
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers(cm-1)

FIG 14

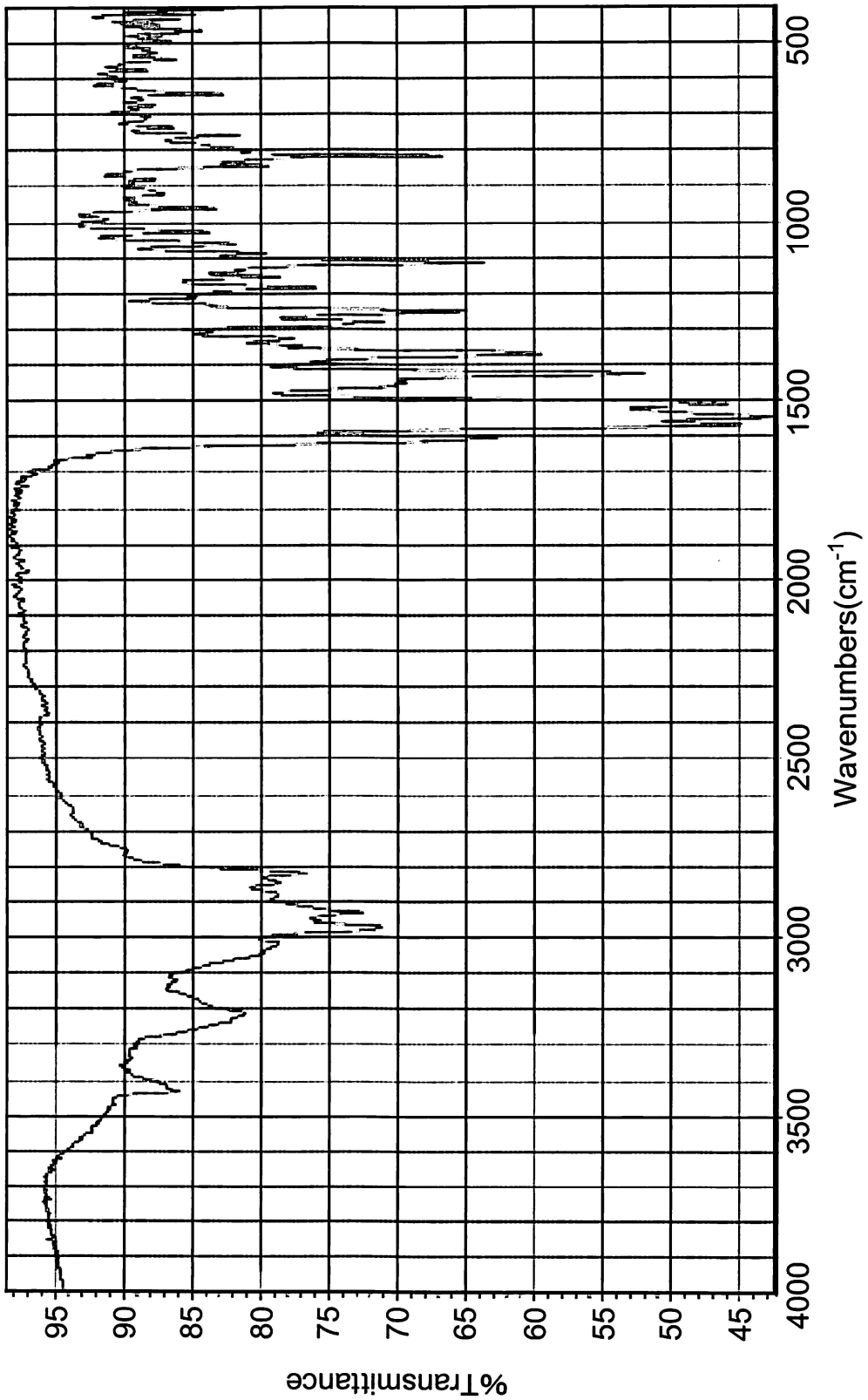

%Transmittance
95
90
85
80
75
70
65
60
55
50
45
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers(cm-1)

FIG 15

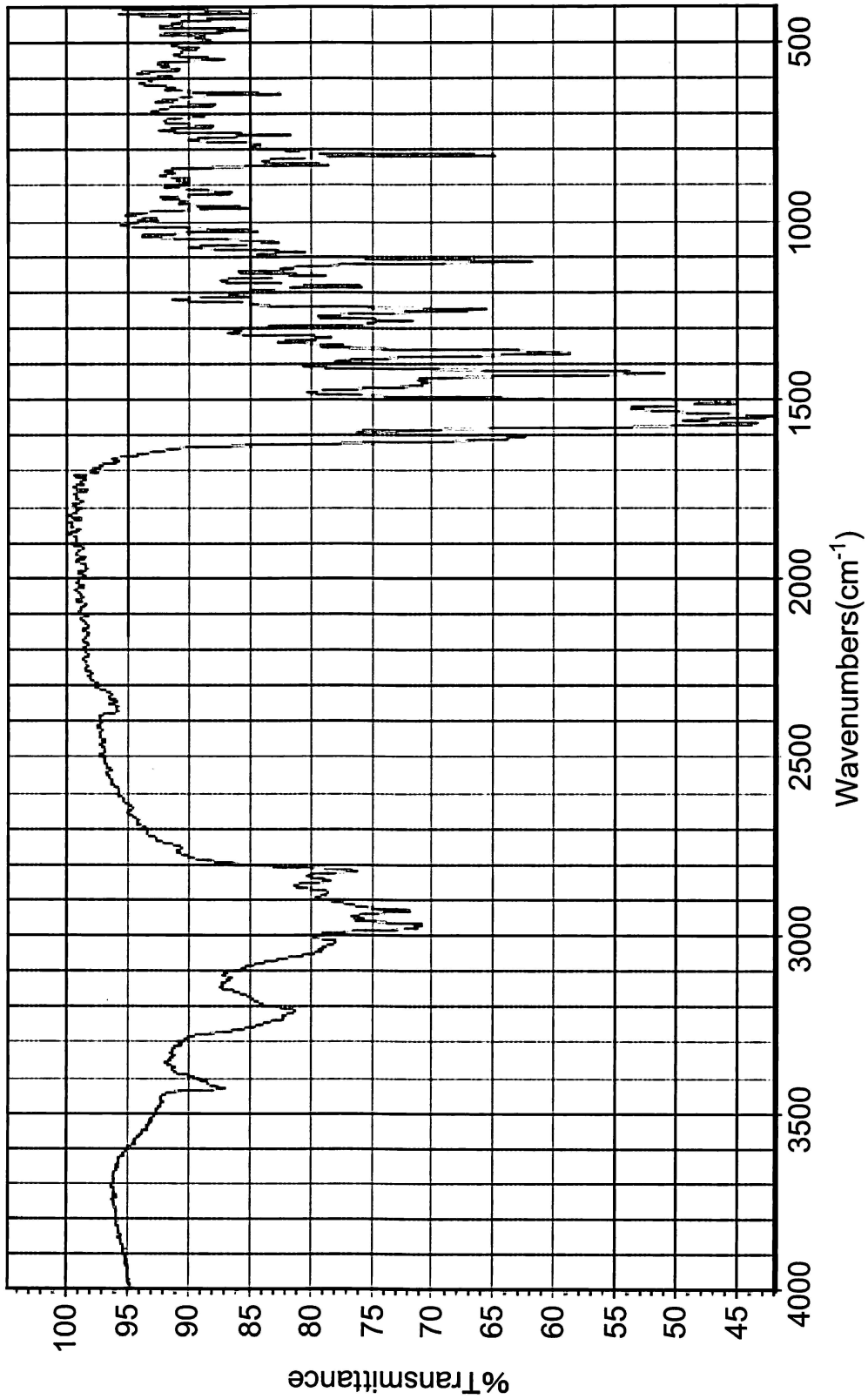
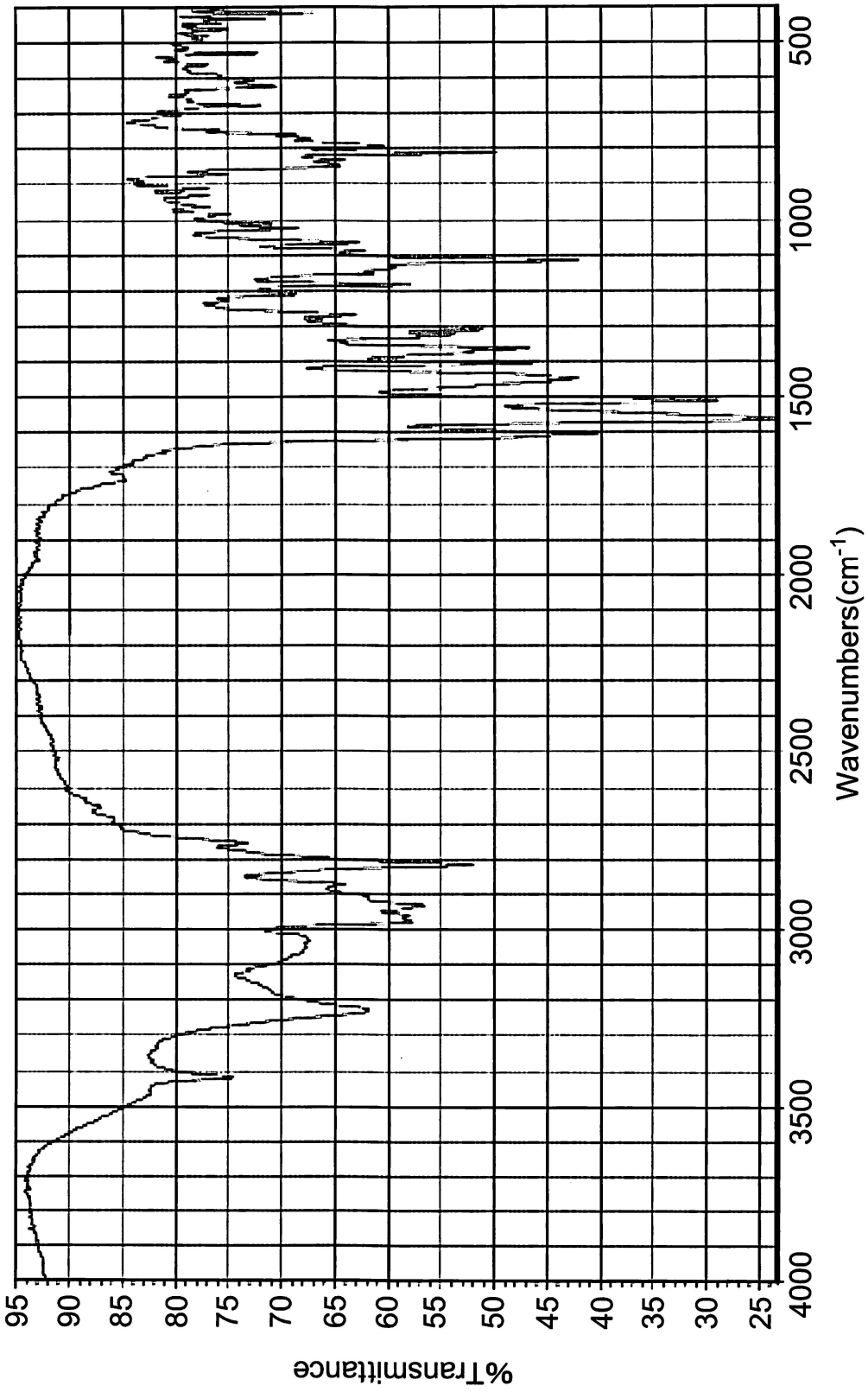

%Transmittance
100
95
90
85
80
75
70
65
60
55
50
45
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers(cm-1)

FIG 16


%Transmittance
95
90
85
80
75
70
65
60
55
50
45
40
35
30
25
4000
3500
3000
2500
2000
1500
1000
500
Wavenumbers(cm-1)

18.52
23.76
42.88
49.55
52.70
69.80
101.76
105.12
111.17
122.53
132.53
135.92
146.77
151.93
156.27
162.23
169.04
ppm
20
30
40
50
60
70
80
90
100
110
120
130
140
150
160
170

FIG 17-1

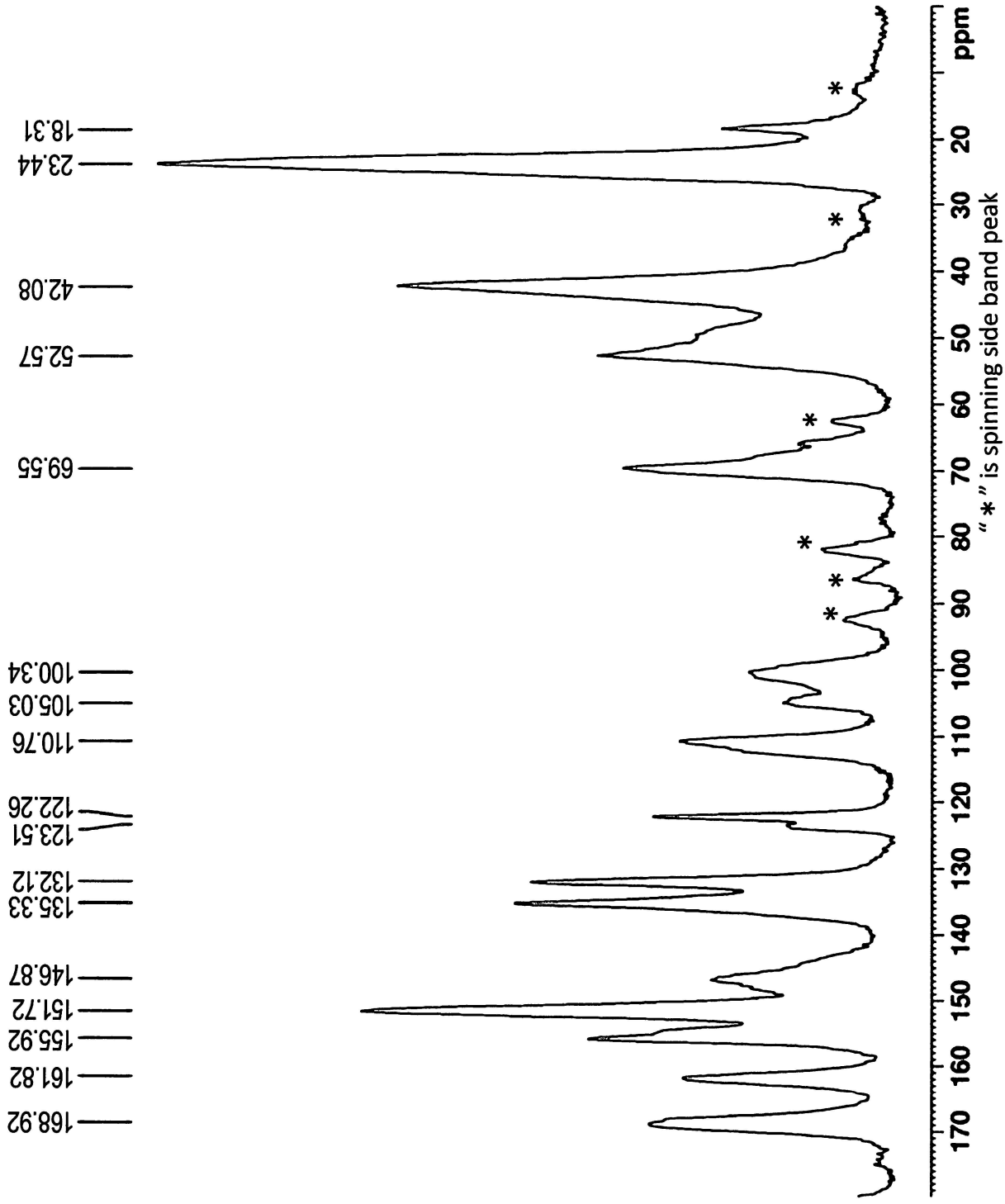
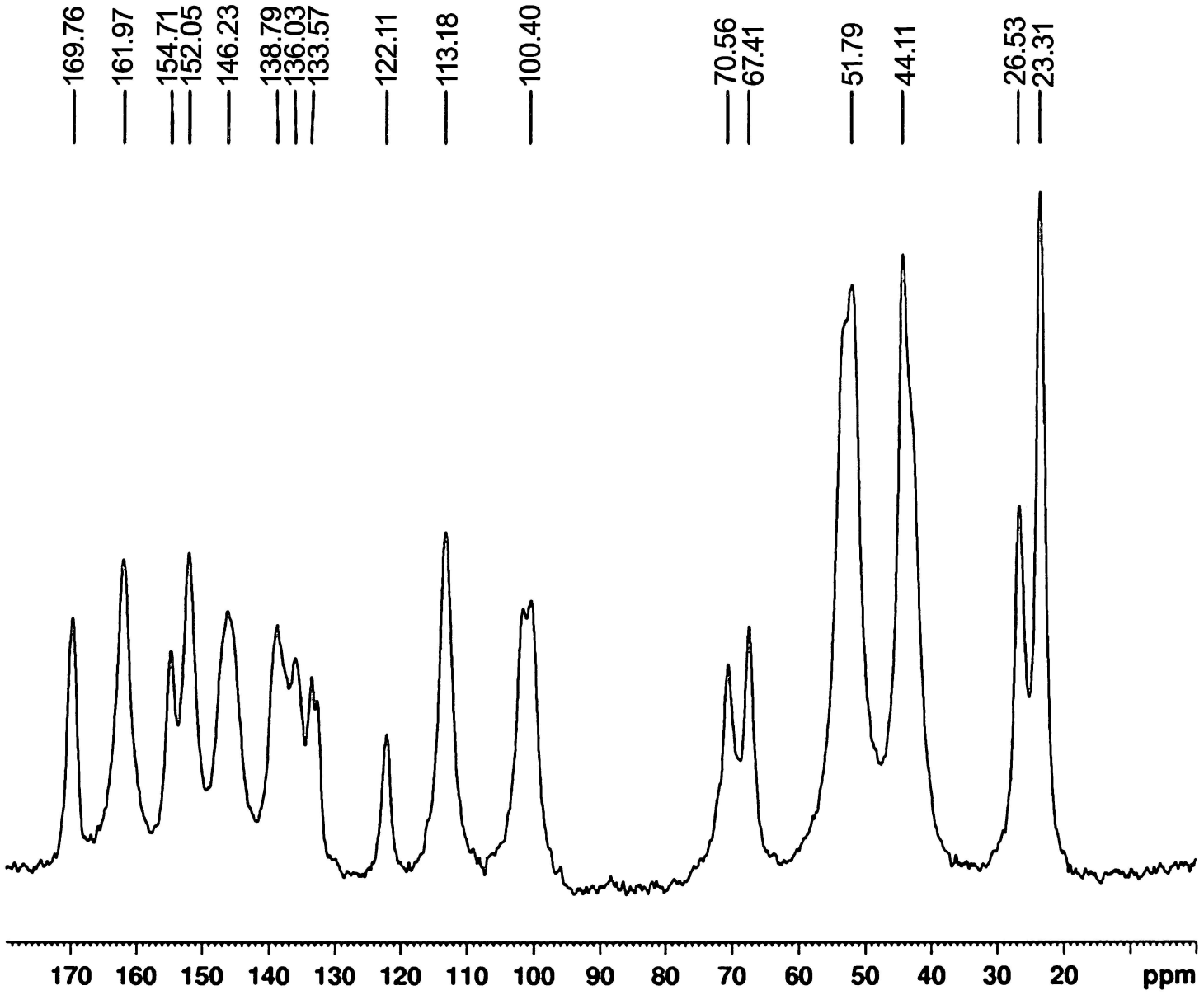

168.92
161.82
155.92
151.72
146.87
135.33
132.12
123.51
122.26
110.76
105.03
100.34
69.55
52.57
42.08
23.44
18.31
ppm
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
" * " is spinning side band peak

FIG 17-2

FIG 18

245.65
229.18
214.49
174.28
86.54
54.71
-12.40
ppm
260
240
220
200
180
160
140
120
100
80
60
40
20
0

FIG19-1


169.76
161.97
154.71
152.05
146.23
138.79
136.03
133.57
122.11
113.18
100.40
70.56
67.41
51.79
44.11
26.53
23.31
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
ppm

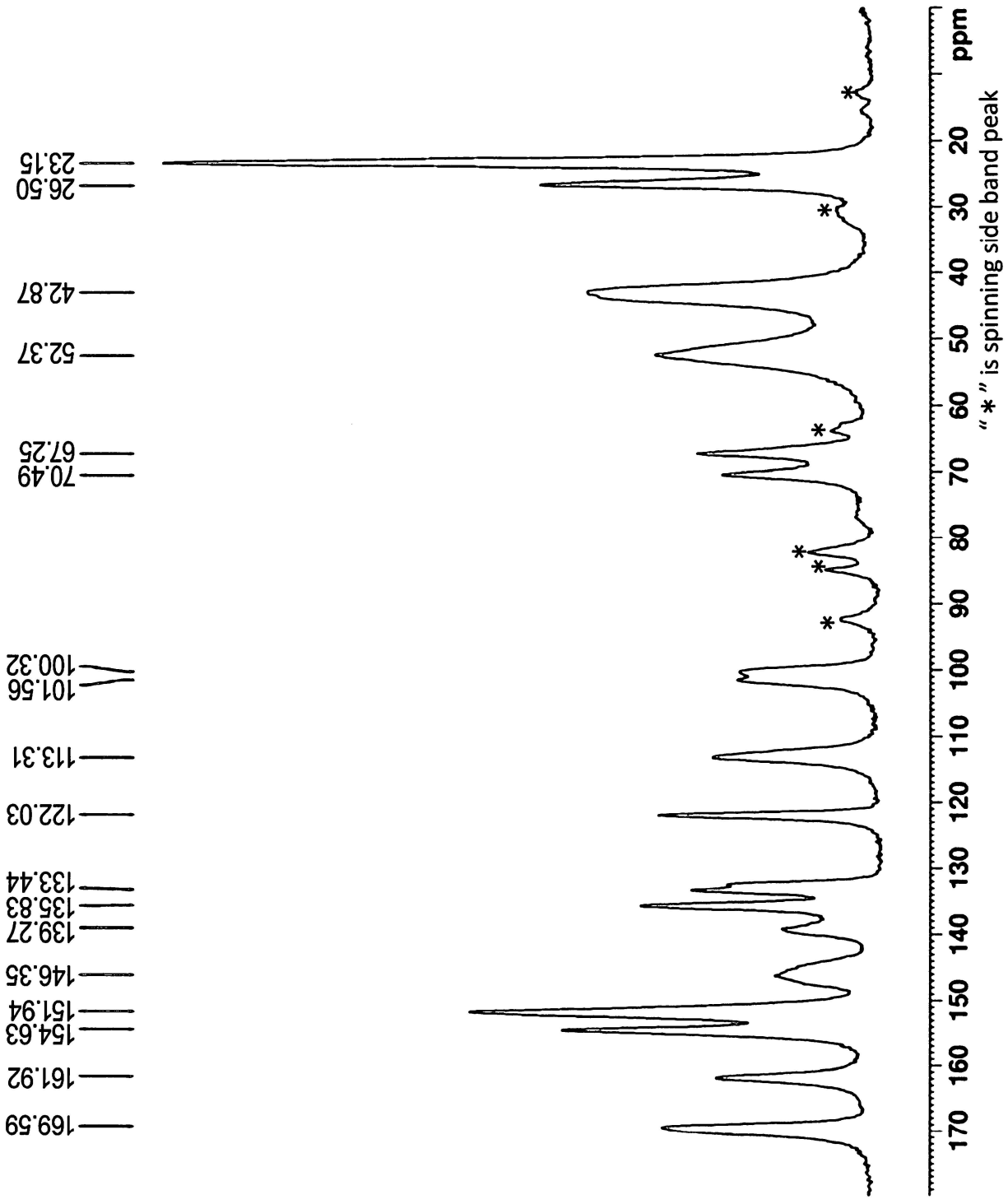

23.15
26.50
42.87
52.37
67.25
70.49
100.32
101.56
113.31
122.03
133.44
135.83
139.27
146.35
151.94
154.63
161.92
169.59
ppm
"*" is spinning side band peak

FIG 19-2

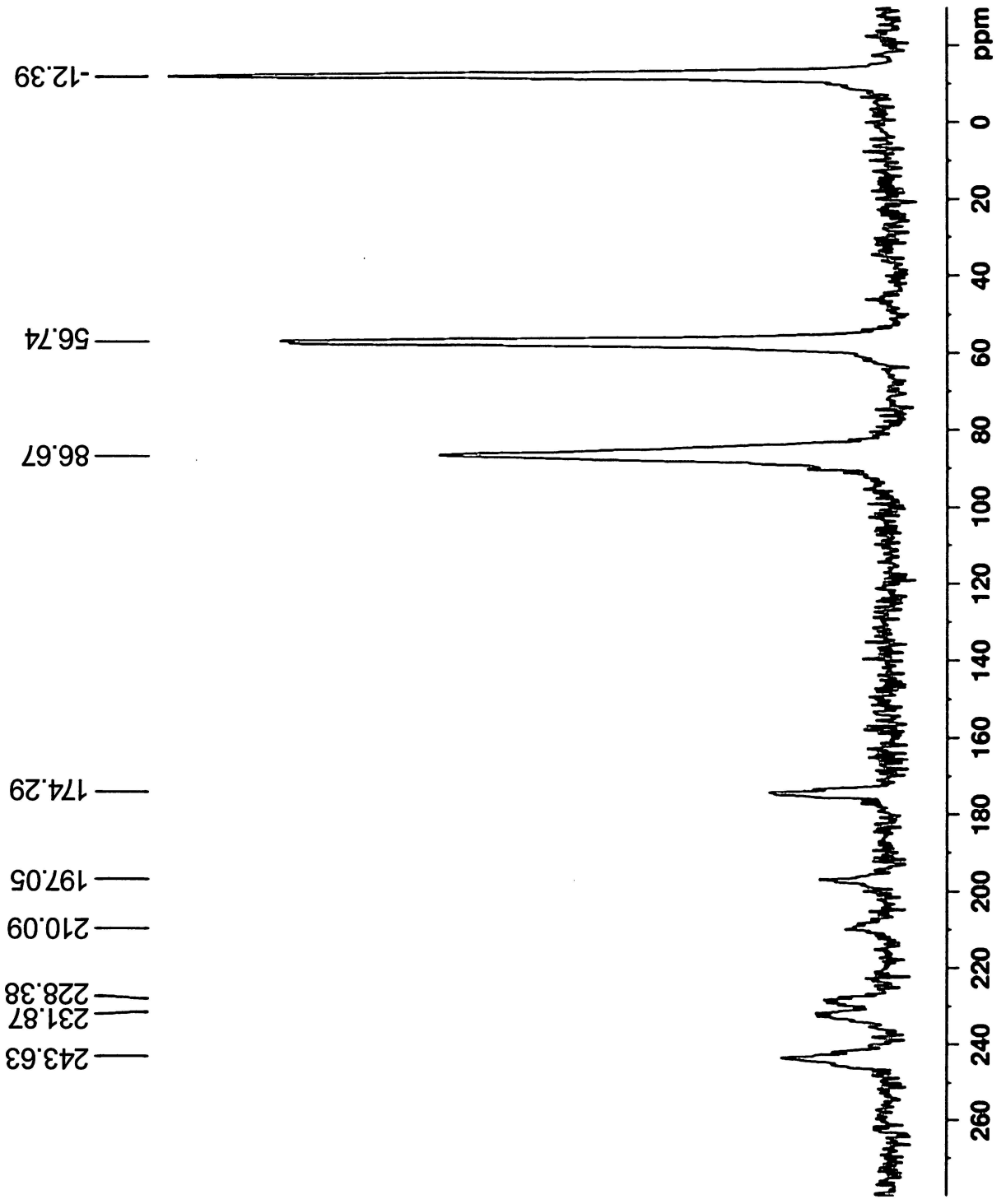

-12.39
56.74
86.67
174.29
197.05
210.09
228.38
231.87
243.63
ppm
0
20
40
60
80
100
120
140
160
180
200
220
240
260

FIG 20

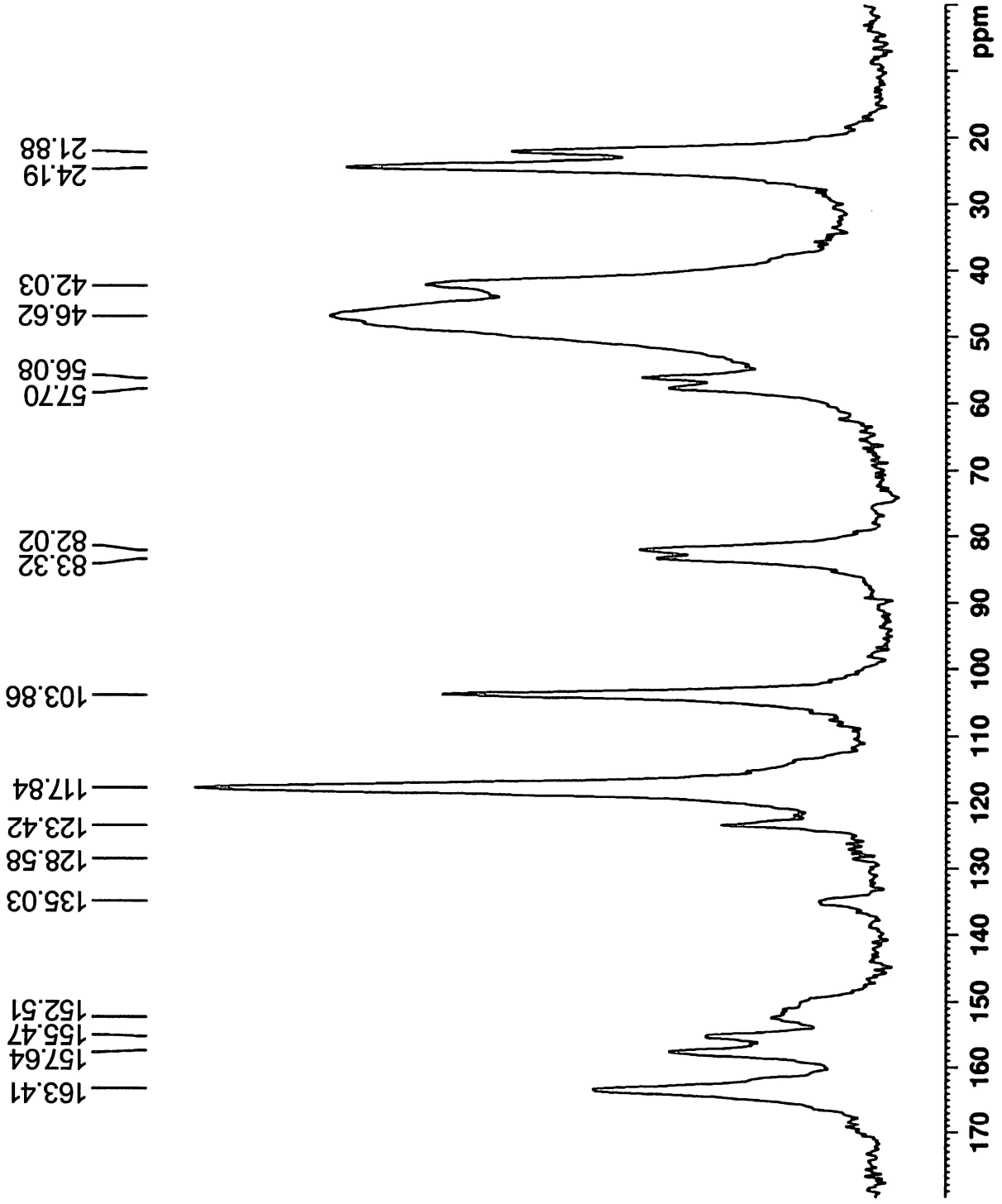

163.41
157.64
155.47
152.51
135.03
128.58
123.42
117.84
103.86
83.32
82.02
57.70
56.08
46.62
42.03
24.19
21.88
170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 ppm

FIG 21-1

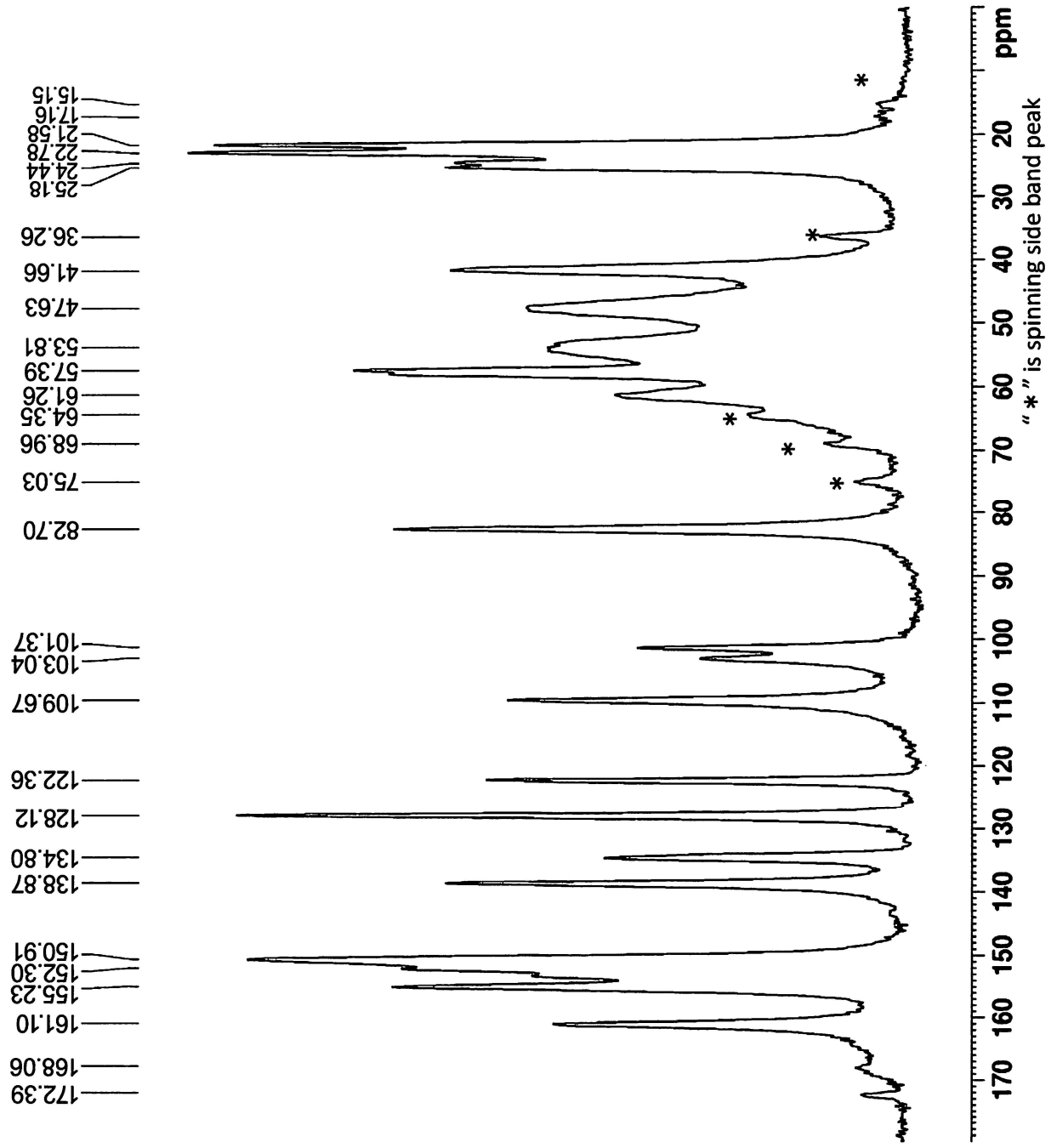

15.15
17.16
21.58
22.78
24.44
25.18
36.26
41.66
47.63
53.81
57.39
61.26
64.35
68.96
75.03
82.70
101.37
103.04
109.67
122.36
128.12
134.80
138.87
150.91
152.30
155.23
161.10
168.06
172.39
ppm
"*" is spinning side band peak

FIG 21-2

-28.65
-4.26
32.94
53.31
79.51
114.41
168.51
220.38
221.49
232.41
311.68
ppm
0
50
100
150
200
250
300

FIG 22

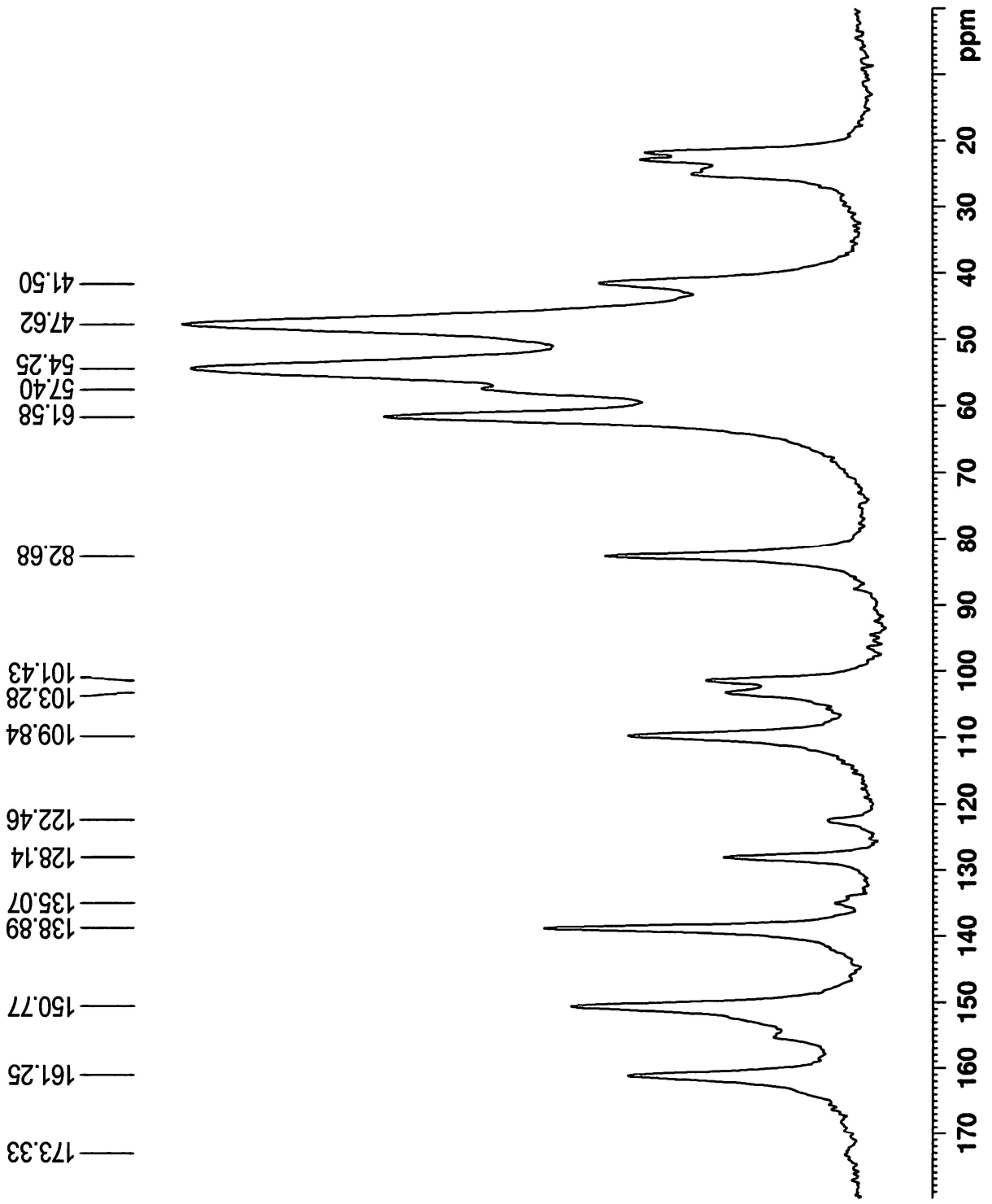

173.33
161.25
150.77
138.89
135.07
128.14
122.46
109.84
103.28
101.43
82.68
61.58
57.40
54.25
47.62
41.50
ppm
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20

FIG23-1

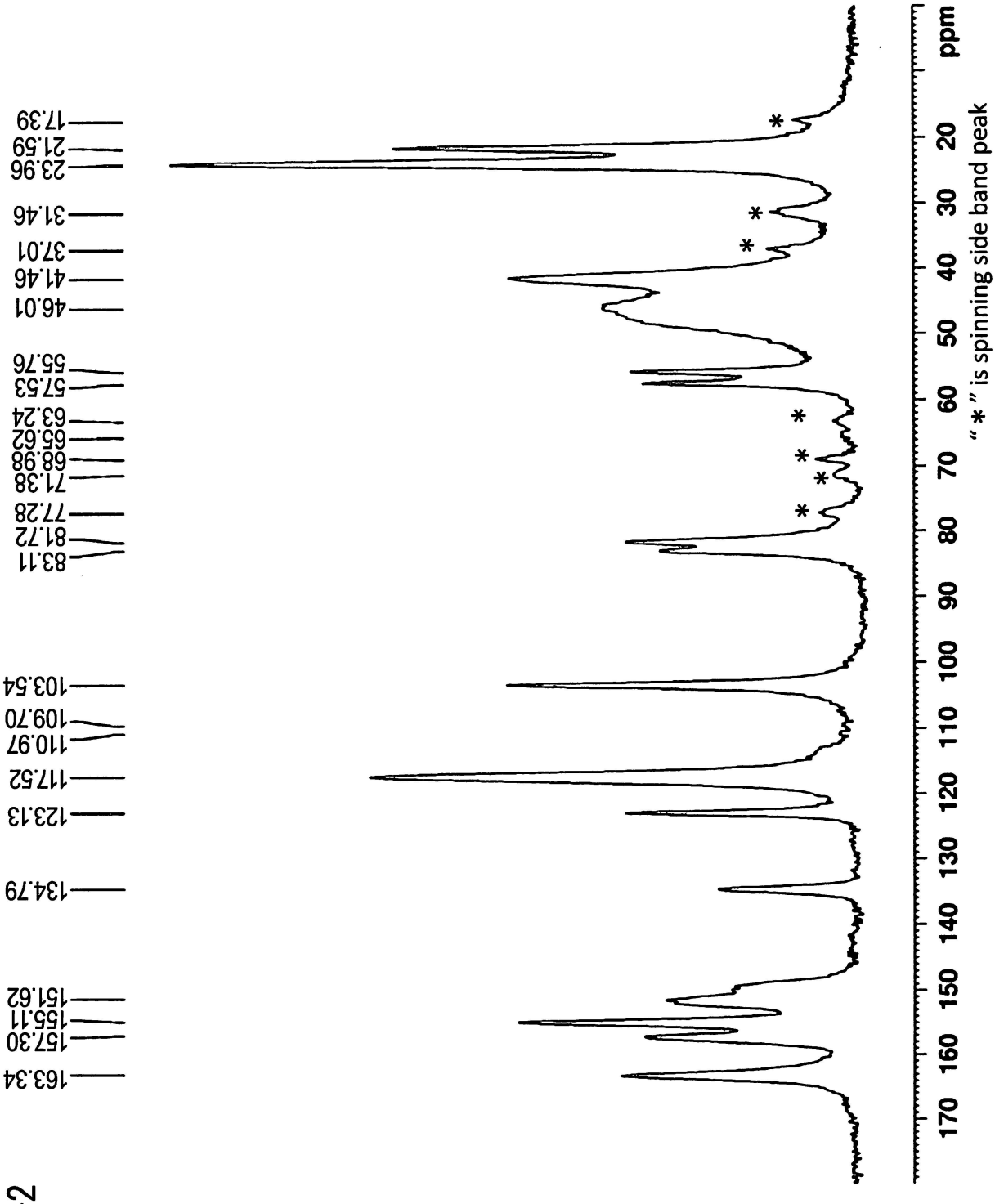

17.39
21.59
23.96
31.46
37.01
41.46
46.01
55.76
57.53
63.24
65.62
68.98
71.38
77.28
81.72
83.11
103.54
109.70
110.97
117.52
123.13
134.79
151.62
155.11
157.30
163.34
170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 ppm
"*" is spinning side band peak

FIG 23-2

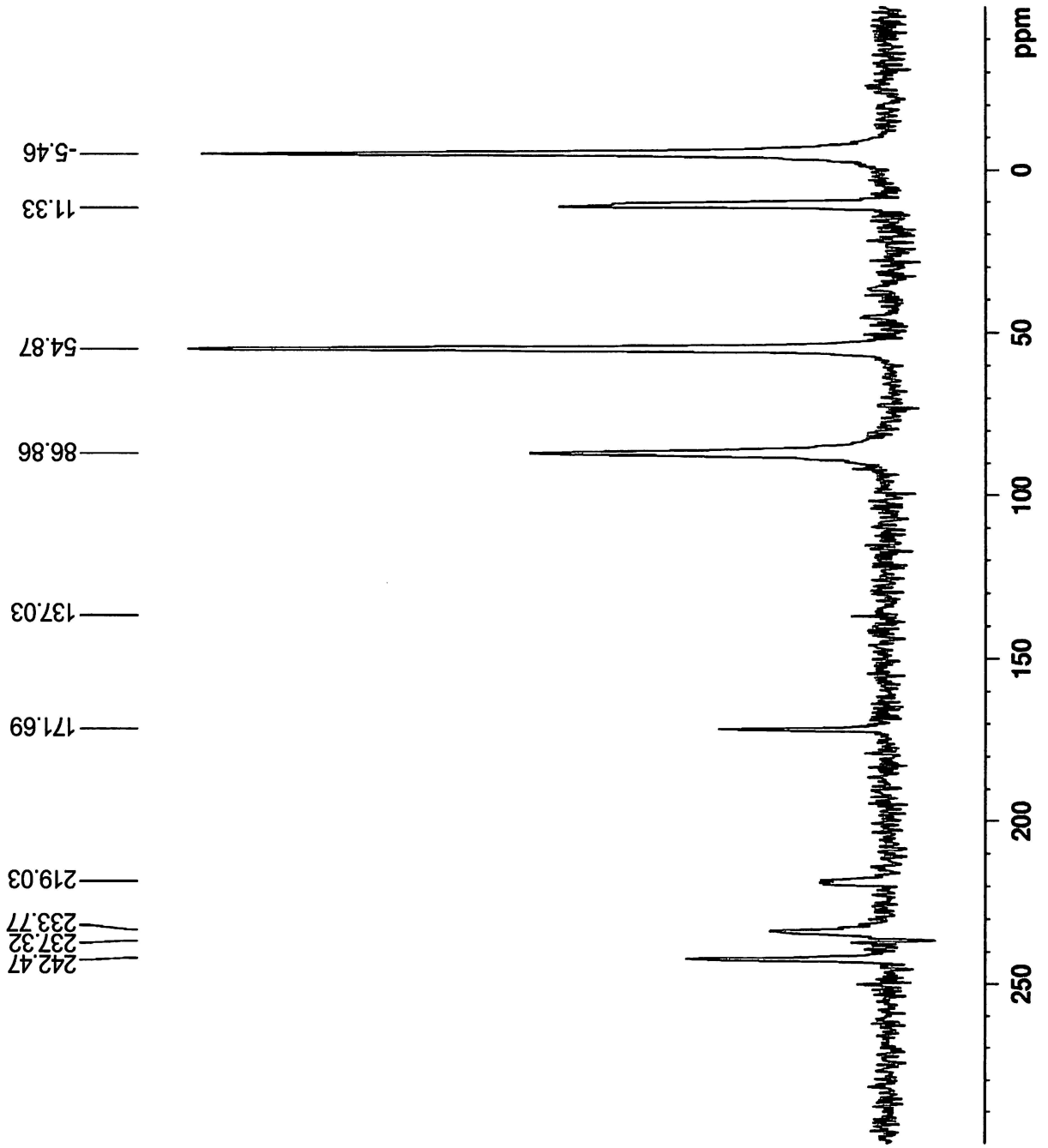

-5.46
11.33
54.87
86.86
137.03
171.69
219.03
233.77
237.32
242.47
ppm
0
50
100
150
200
250

FIG 24