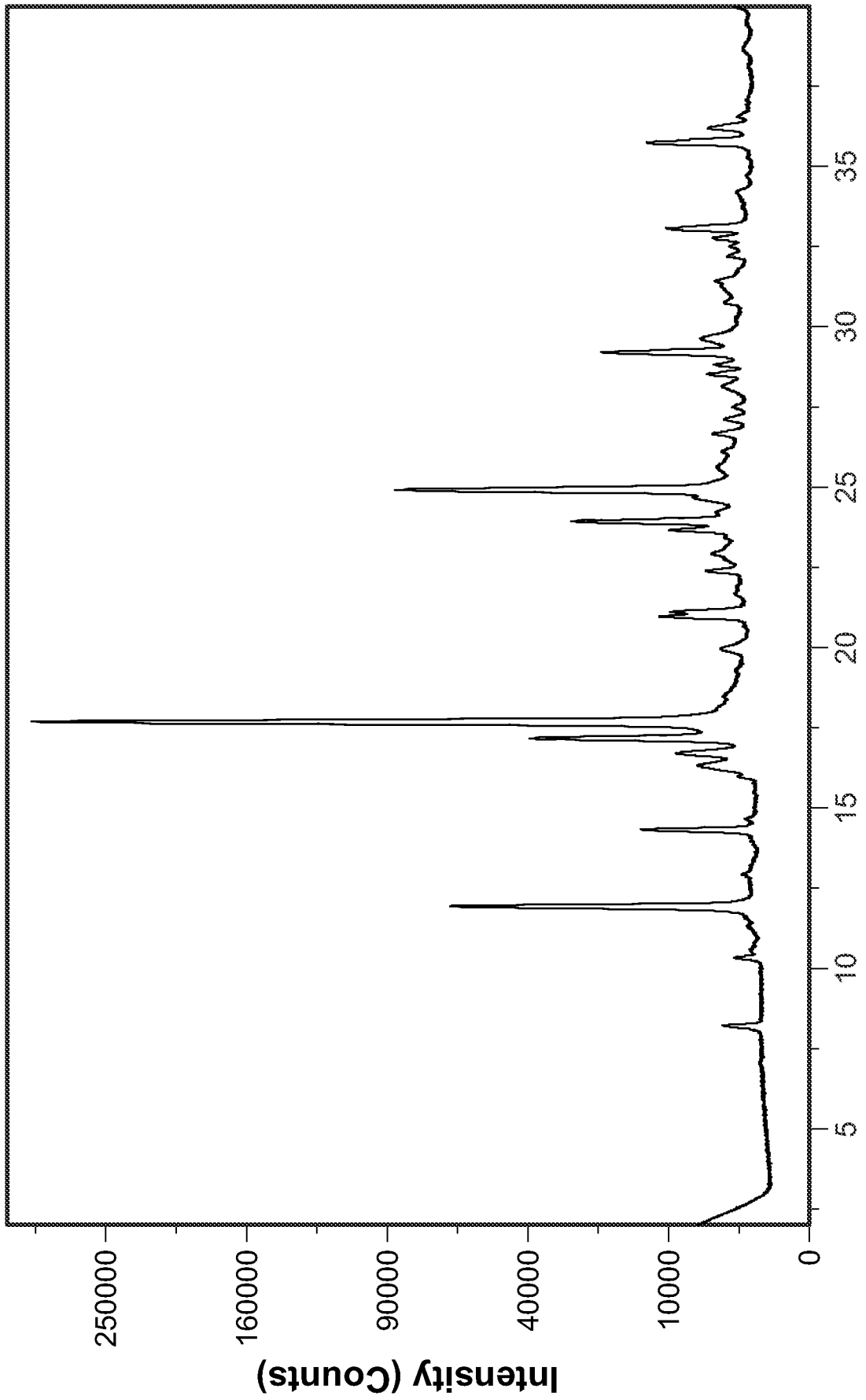
Intensity (Counts)
250000
160000
90000
40000
10000
0
5
10
15
20
25
30
35
2Theta (°)

FIG. 1A

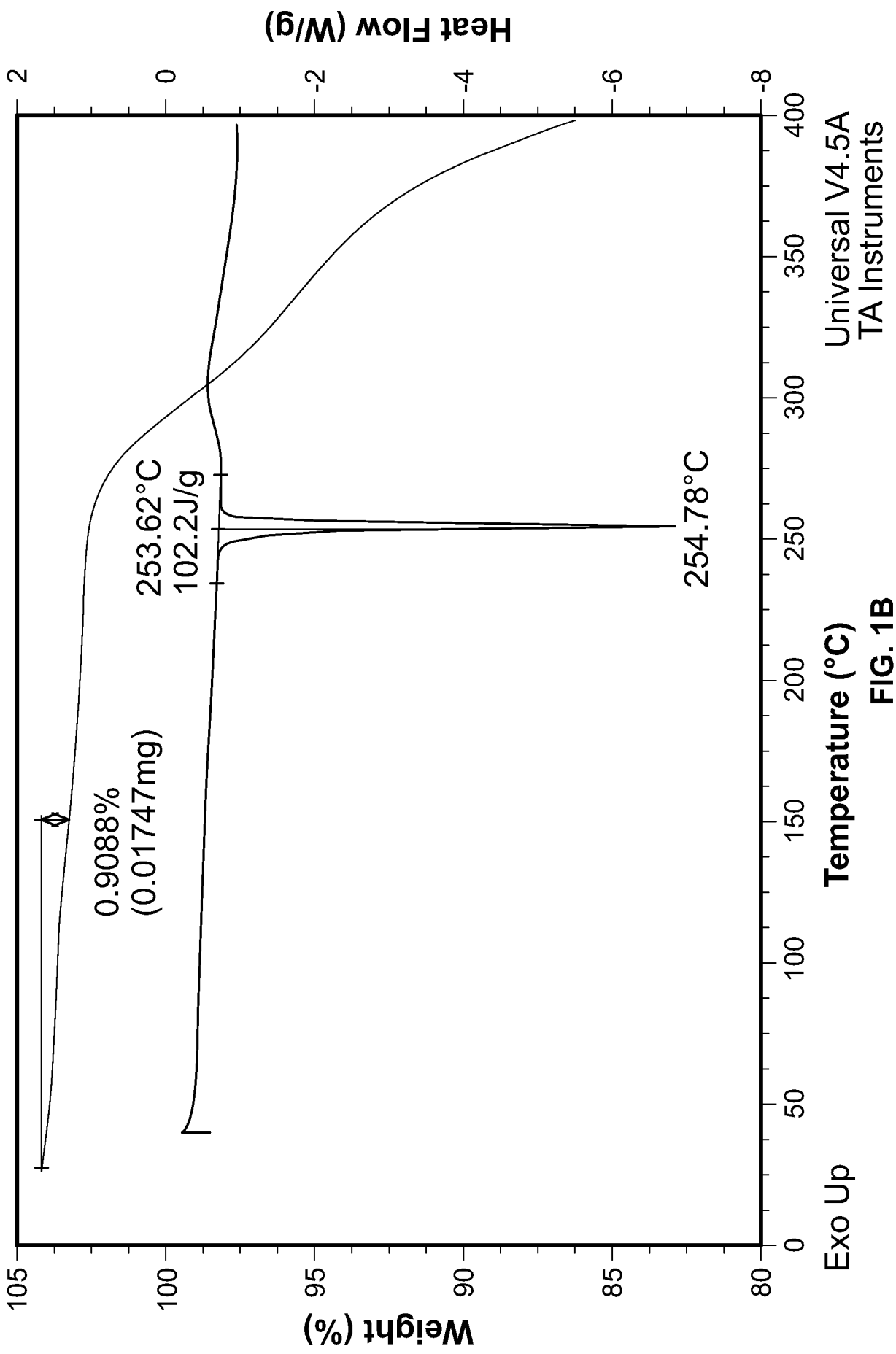
Heat Flow (W/g)
2
0
-2
-4
-6
-8
Weight (%)
105
100
95
90
85
80
0
50
100
150
200
250
300
350
400
Temperature (°C)
Exo Up
Universal V4.5A
TA Instruments
0.9088%
(0.01747mg)
253.62°C
102.2J/g
254.78°C

FIG. 1B

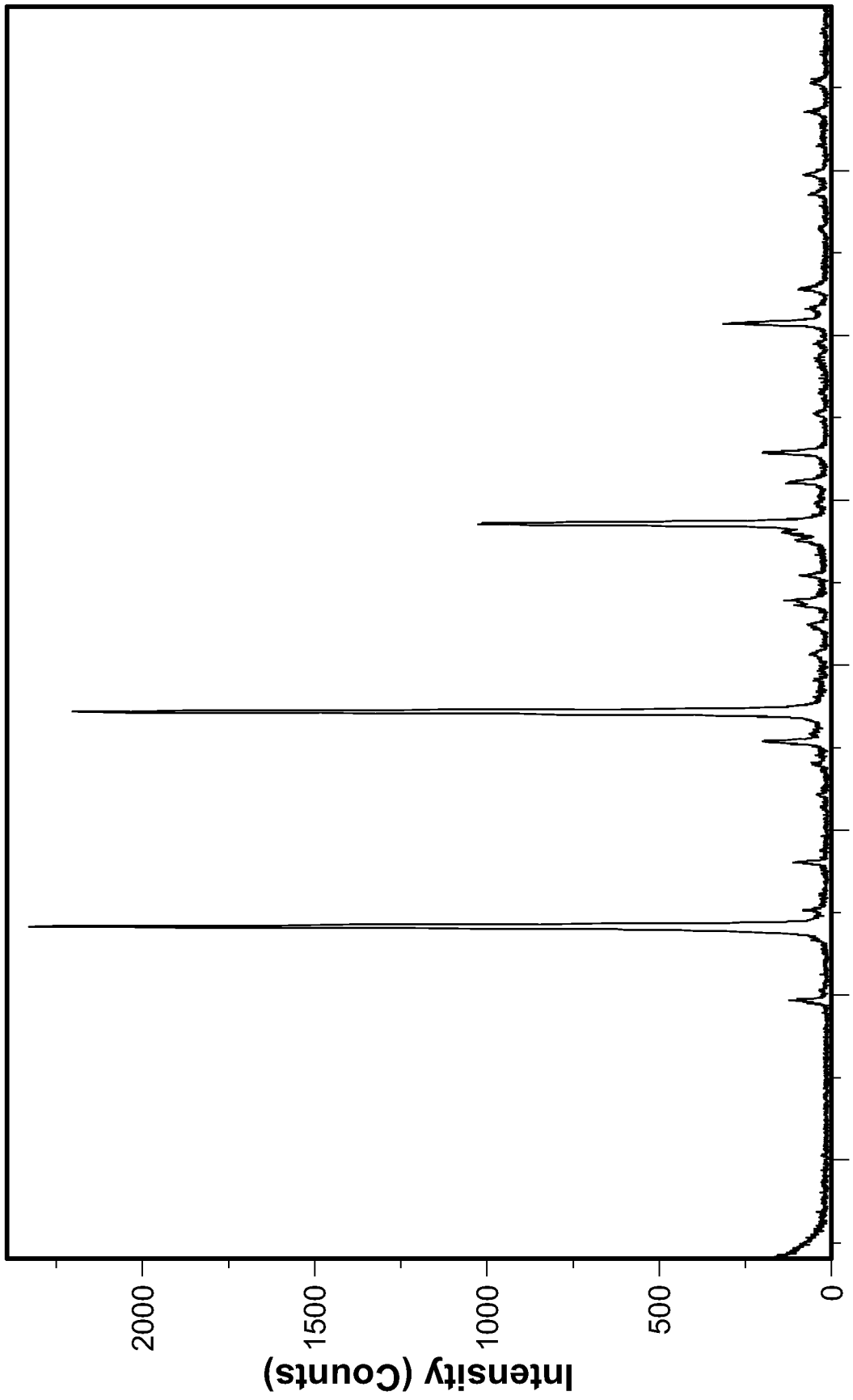
Intensity (Counts)
0
500
1000
1500
2000
5
10
15
20
25
30
35
2Theta (°)

FIG. 2A

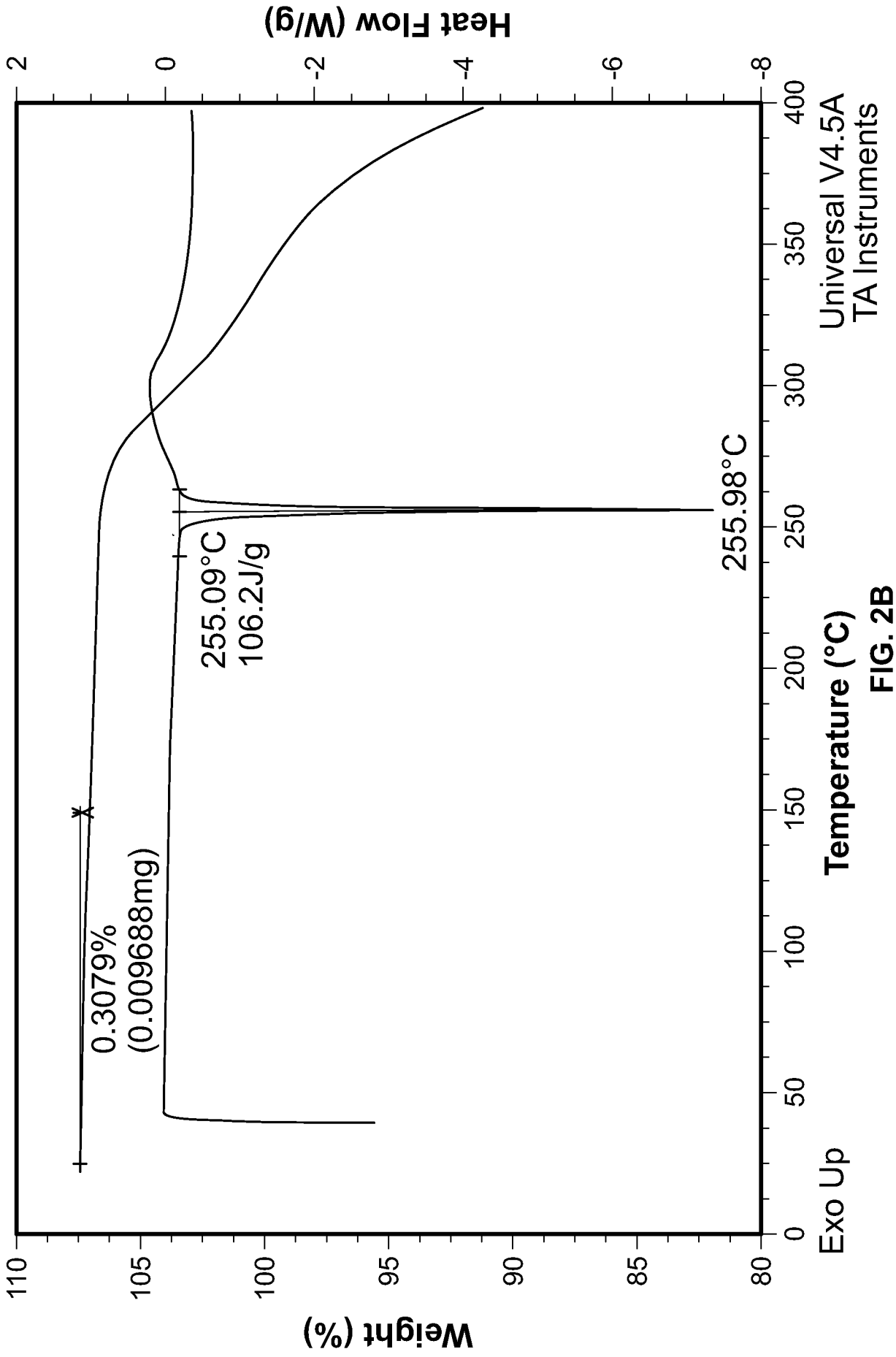
Heat Flow (W/g)
2
0
-2
-4
-6
-8
Universal V4.5A
TA Instruments
Weight (%)
110
105
100
95
90
85
80
0
50
100
150
200
250
300
350
400
Temperature (°C)
Exo Up
0.3079%
(0.009688mg)
255.09°C
106.2J/g
255.98°C

FIG. 2B

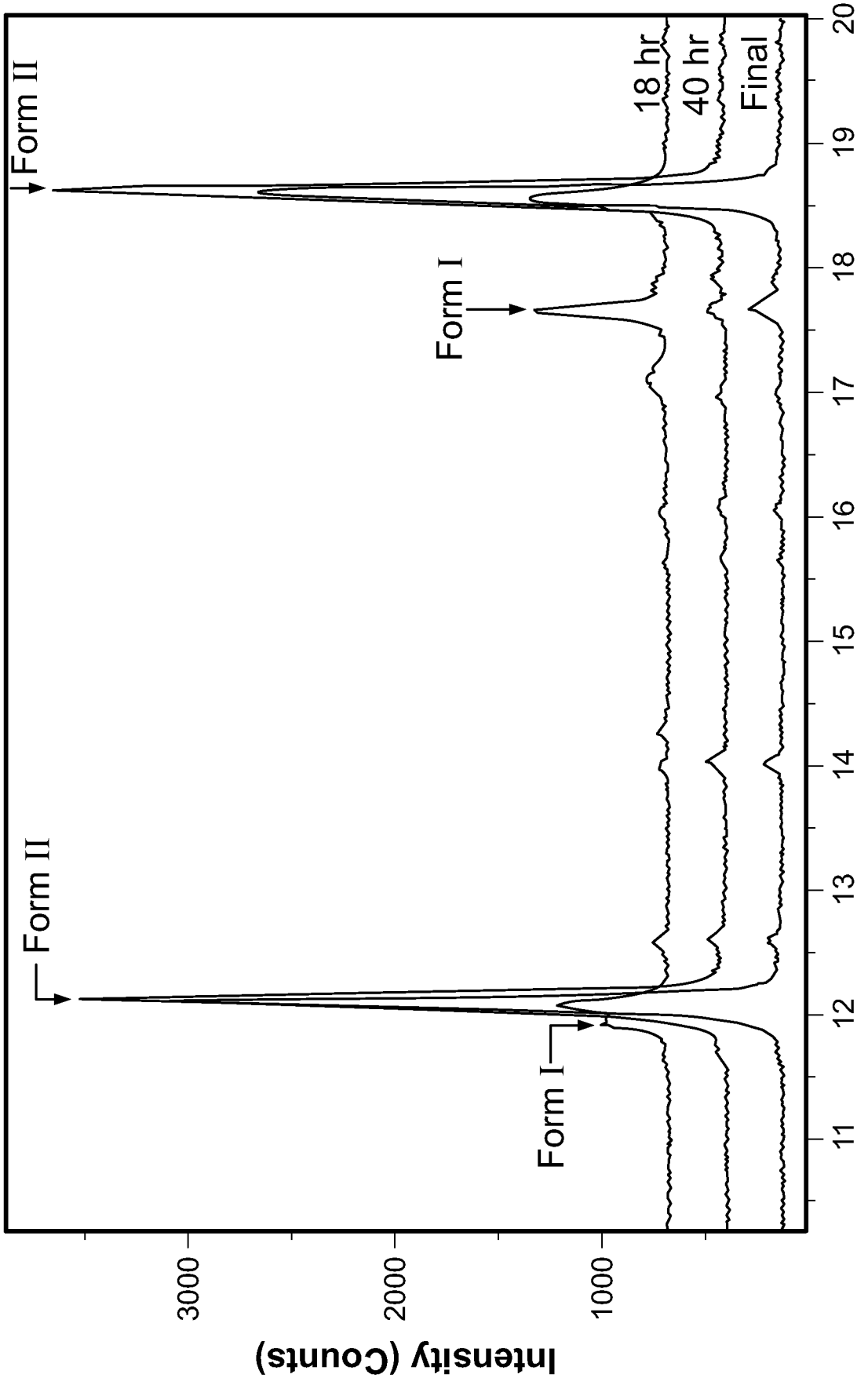
Form II
Form I
Form II
Form I
18 hr
40 hr
Final
Intensity (Counts)
3000
2000
1000
11
12
13
14
15
16
17
18
19
20
2Theta (°)

FIG. 3

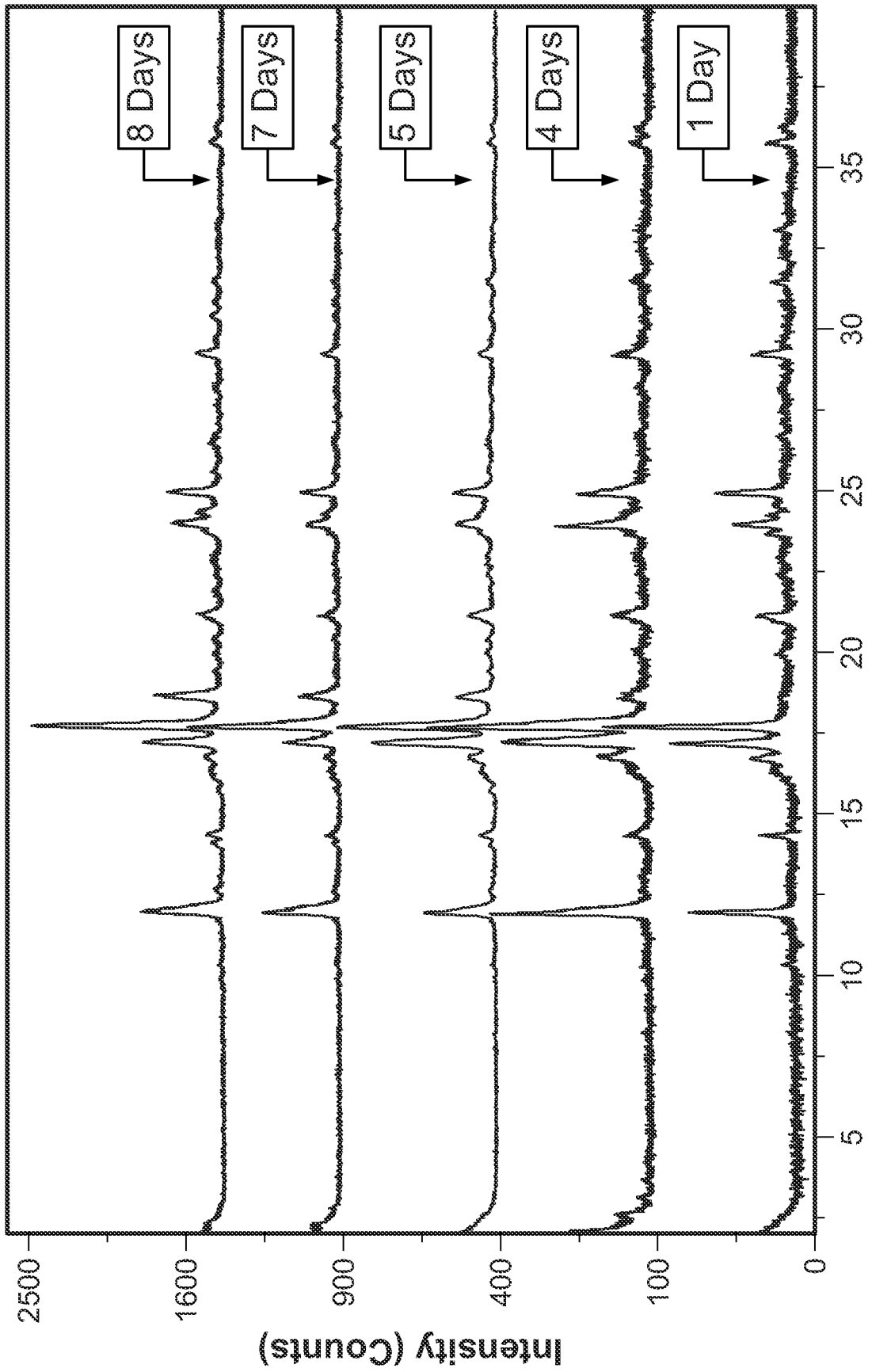
8 Days
7 Days
5 Days
4 Days
1 Day
Intensity (Counts)
2500
1600
900
400
100
0
5
10
15
20
25
30
35
2Theta (°)

FIG. 4

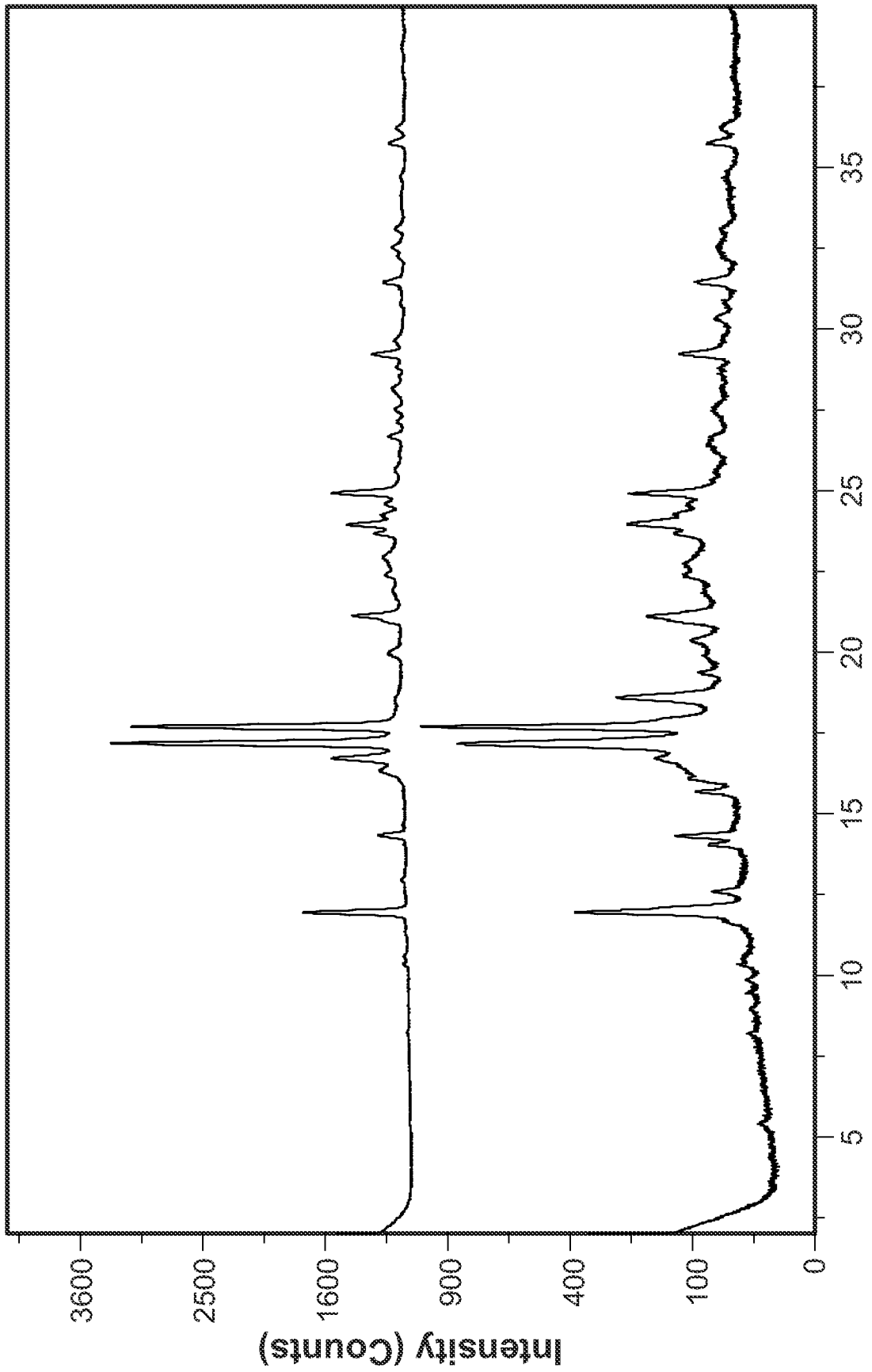
Intensity (Counts)
3600
2500
1600
900
400
100
0
5
10
15
20
25
30
35
2Theta (°)

FIG. 5A

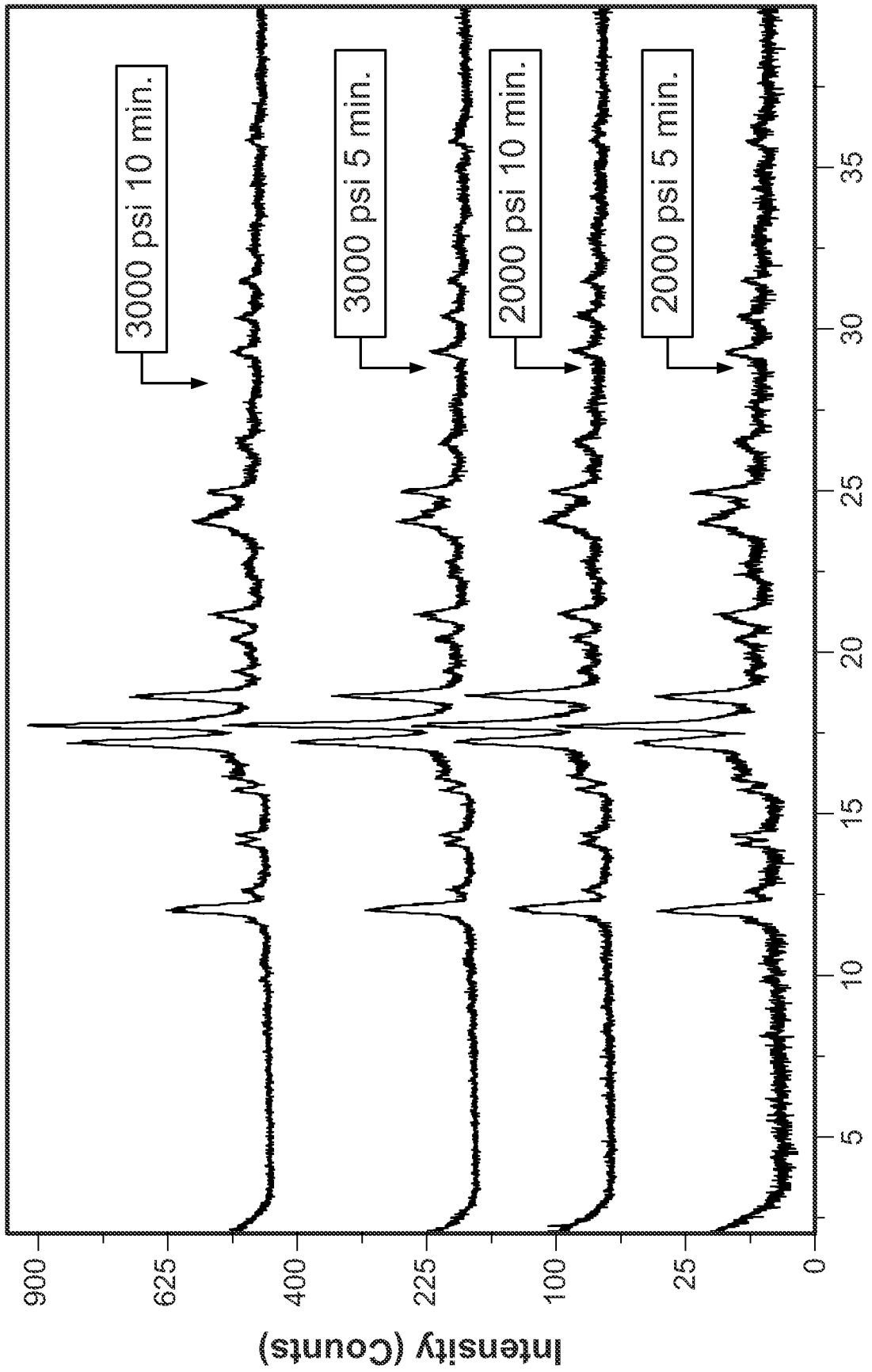
3000 psi 10 min.
3000 psi 5 min.
2000 psi 10 min.
2000 psi 5 min.
Intensity (Counts)
900
625
400
225
100
25
0
5
10
15
20
25
30
35
2Theta (°)

FIG. 5B

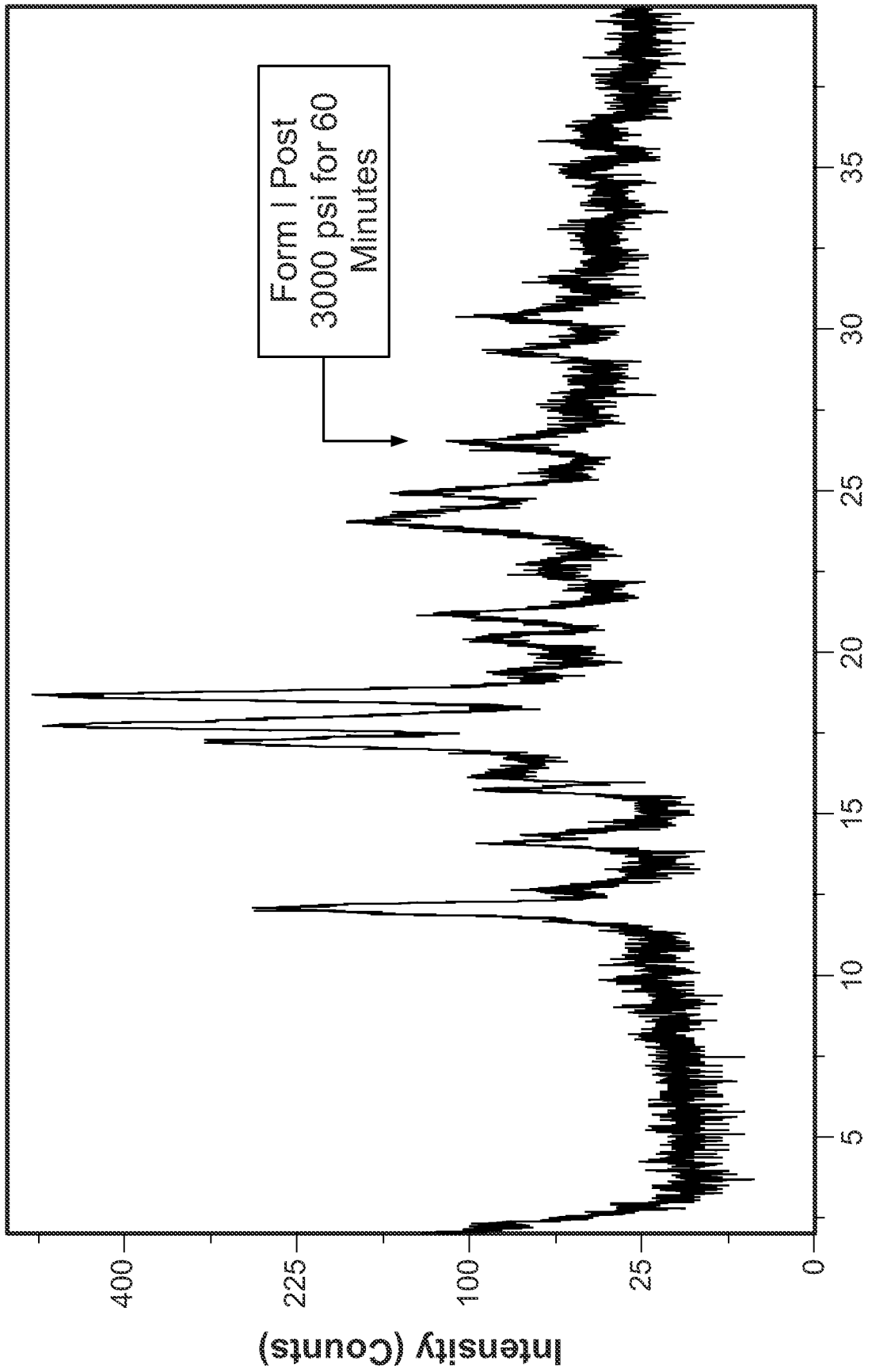
Form I Post
3000 psi for 60
Minutes
Intensity (Counts)
400
225
100
25
0
5
10
15
20
25
30
35
2Theta (°)

FIG. 5C

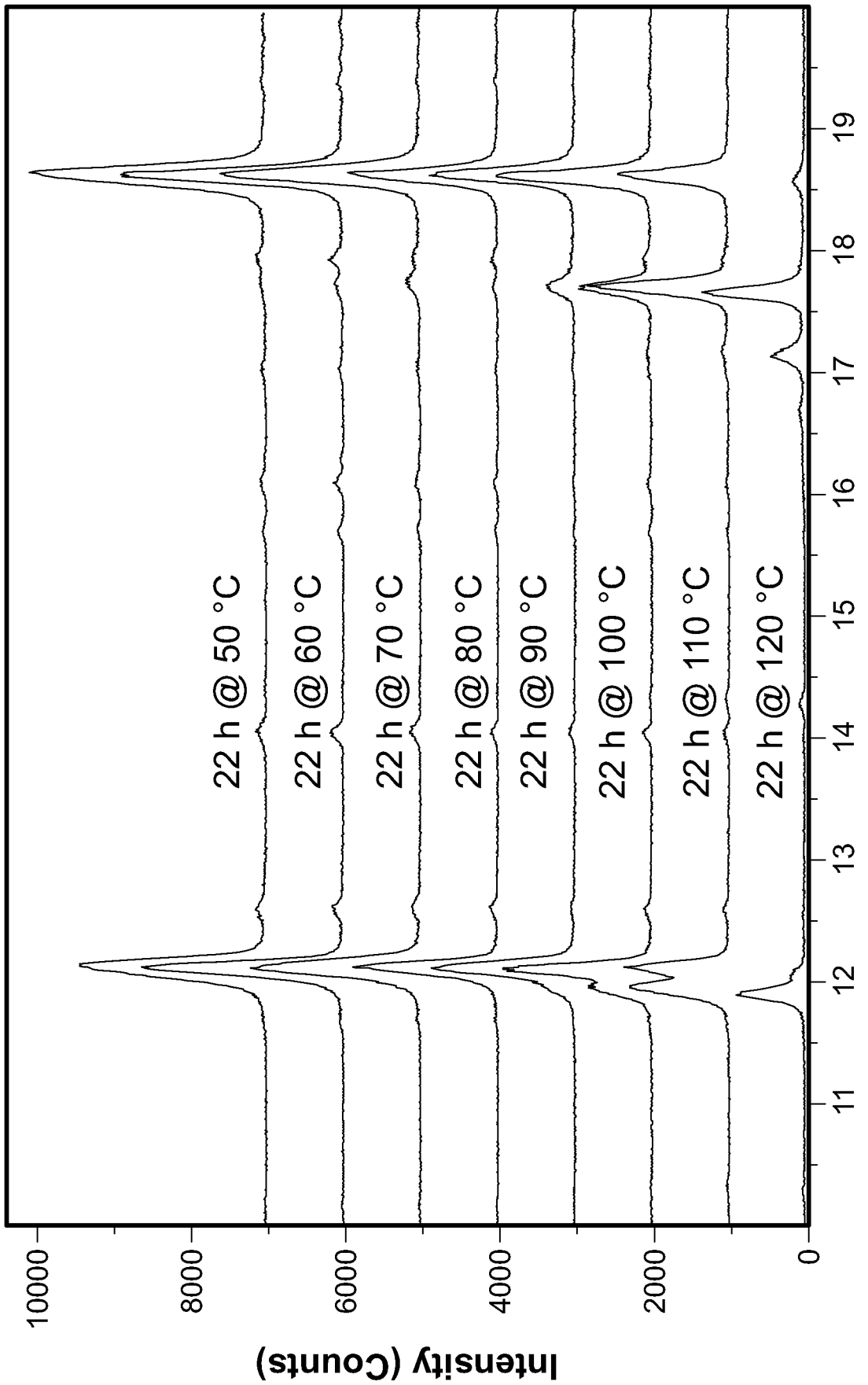
22 h @ 50 °C
22 h @ 60 °C
22 h @ 70 °C
22 h @ 80 °C
22 h @ 90 °C
22 h @ 100 °C
22 h @ 110 °C
22 h @ 120 °C
Intensity (Counts)
0
2000
4000
6000
8000
10000
2Theta (°)
11
12
13
14
15
16
17
18
19

FIG. 6

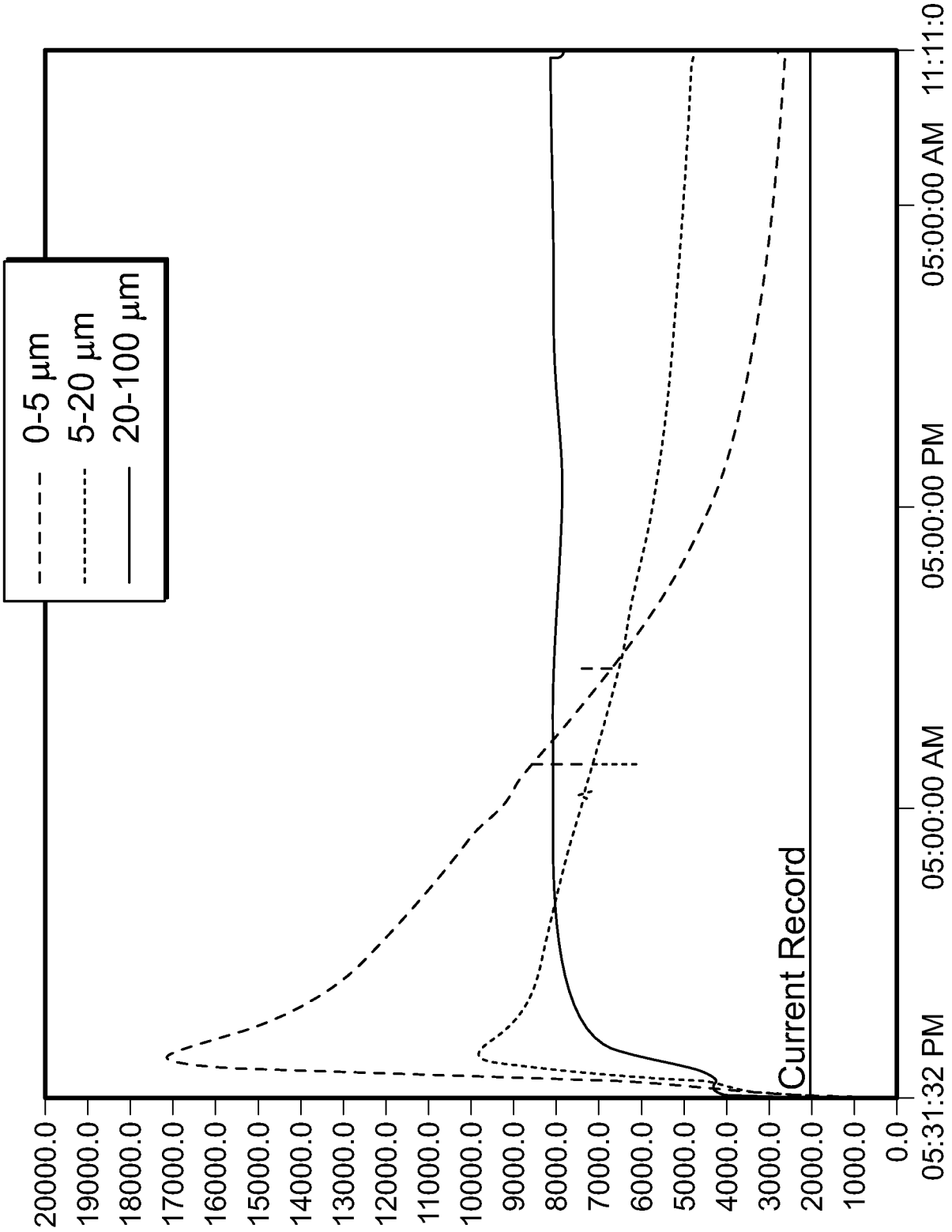
0-5 µm
5-20 µm
20-100 µm
20000.0
19000.0
18000.0
17000.0
16000.0
15000.0
14000.0
13000.0
12000.0
11000.0
10000.0
9000.0
8000.0
7000.0
6000.0
5000.0
4000.0
3000.0
2000.0
1000.0
0.0
05:31:32 PM
05:00:00 AM
05:00:00 PM
05:00:00 AM
11:11:0
Current Record

FIG. 7

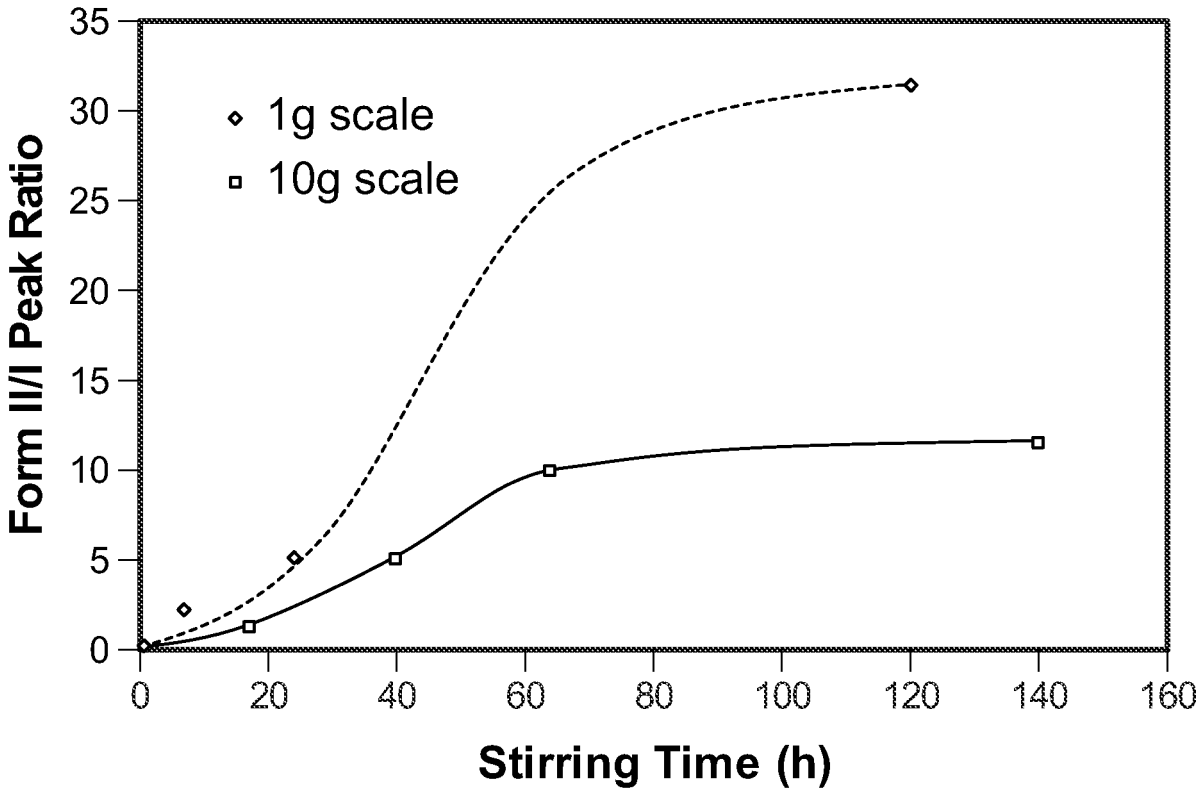
Form II/I Peak Ratio
35
30
25
20
15
10
5
0
1g scale
10g scale
0
20
40
60
80
100
120
140
160
Stirring Time (h)

FIG. 8

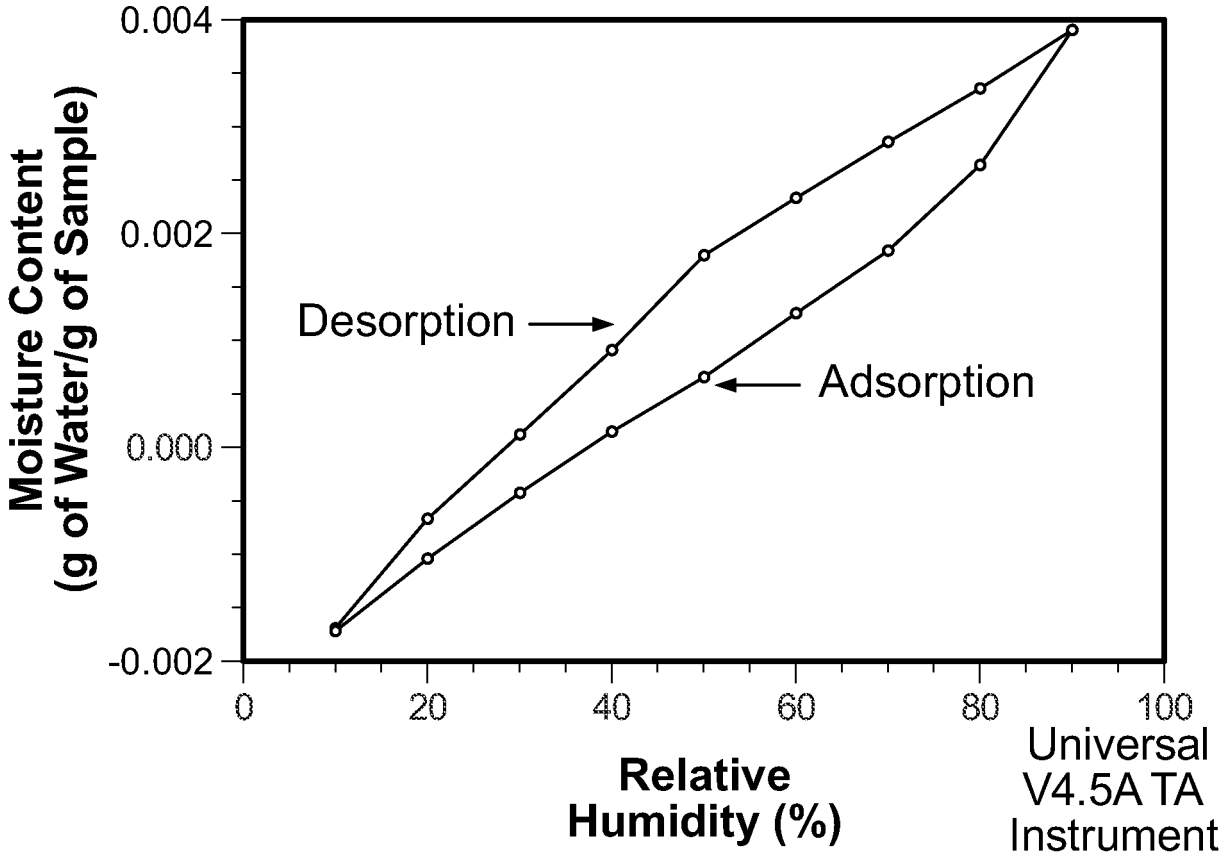
0.004
0.002
0.000
-0.002
Moisture Content
(g of Water/g of Sample)
Desorption
Adsorption
0
20
40
60
80
100
Relative
Humidity (%)
Universal
V4.5A TA
Instrument

FIG. 9A

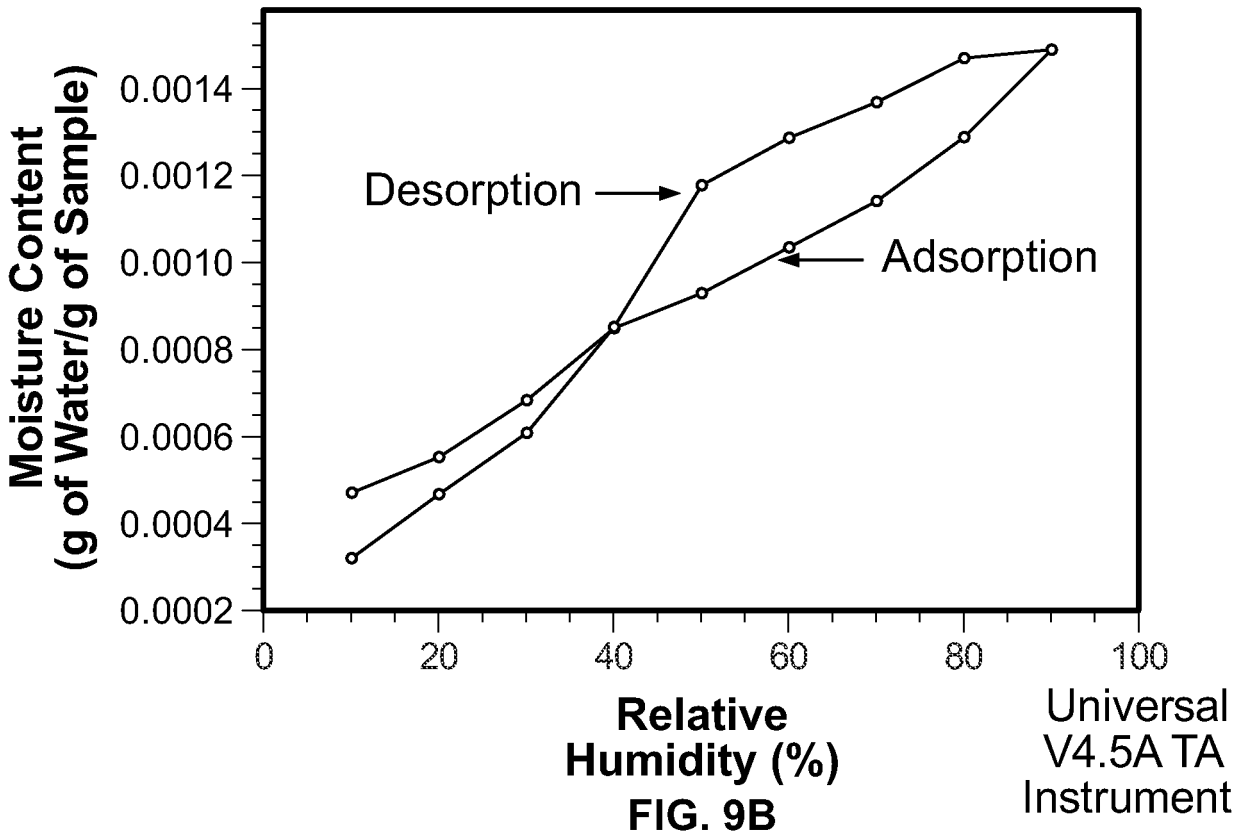
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
Moisture Content
(g of Water/g of Sample)
Desorption
Adsorption
0
20
40
60
80
100
Relative
Humidity (%)
Universal
V4.5A TA
Instrument

FIG. 9B

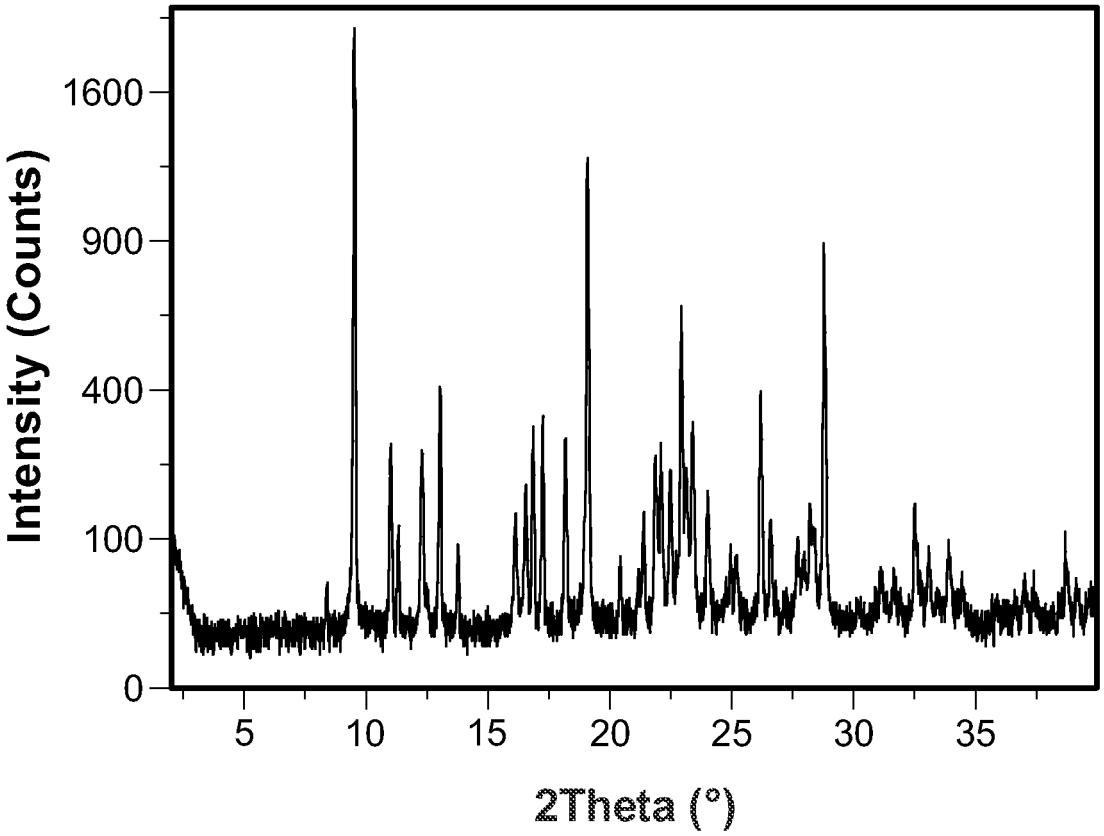

FIG. 10A

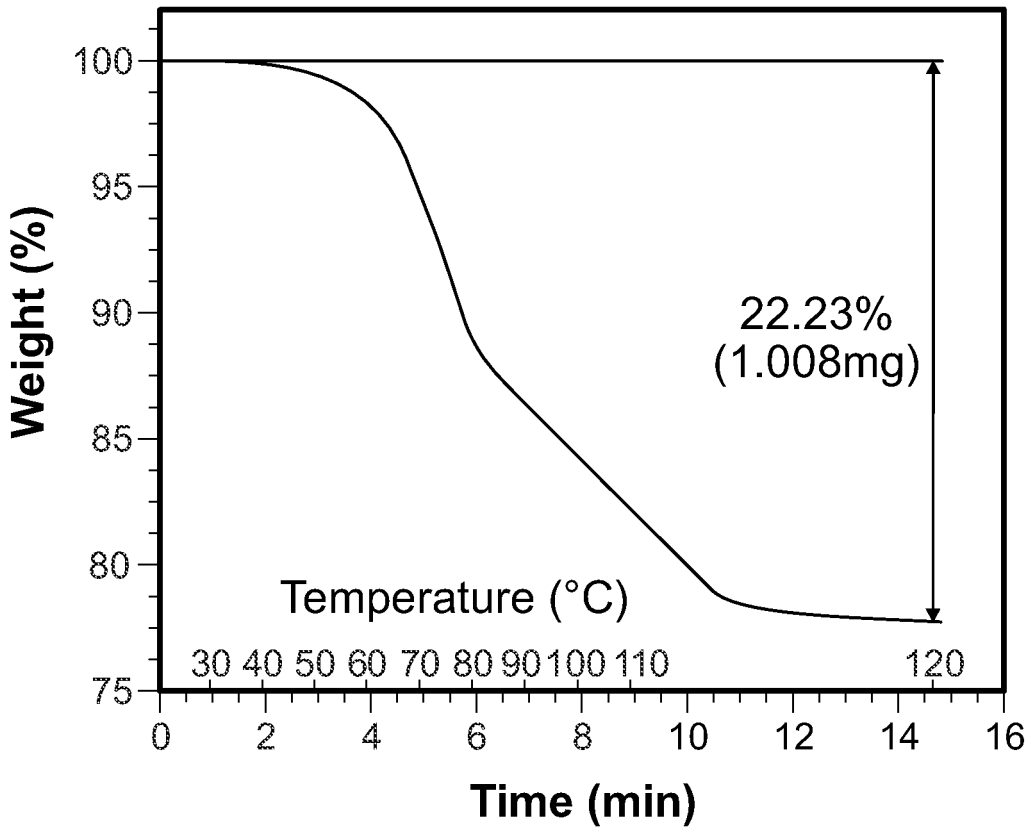

FIG. 10B

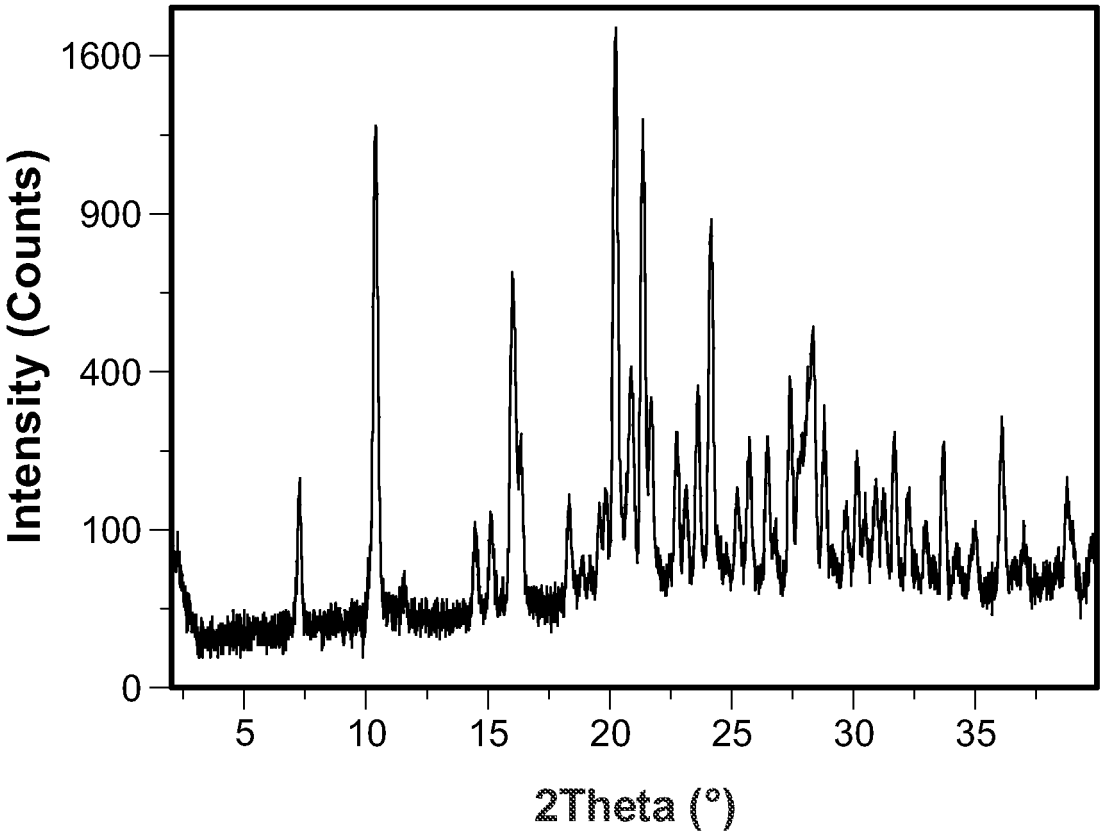
Intensity (Counts)
1600
900
400
100
0
5
10
15
20
25
30
35
2Theta (°)

FIG. 11

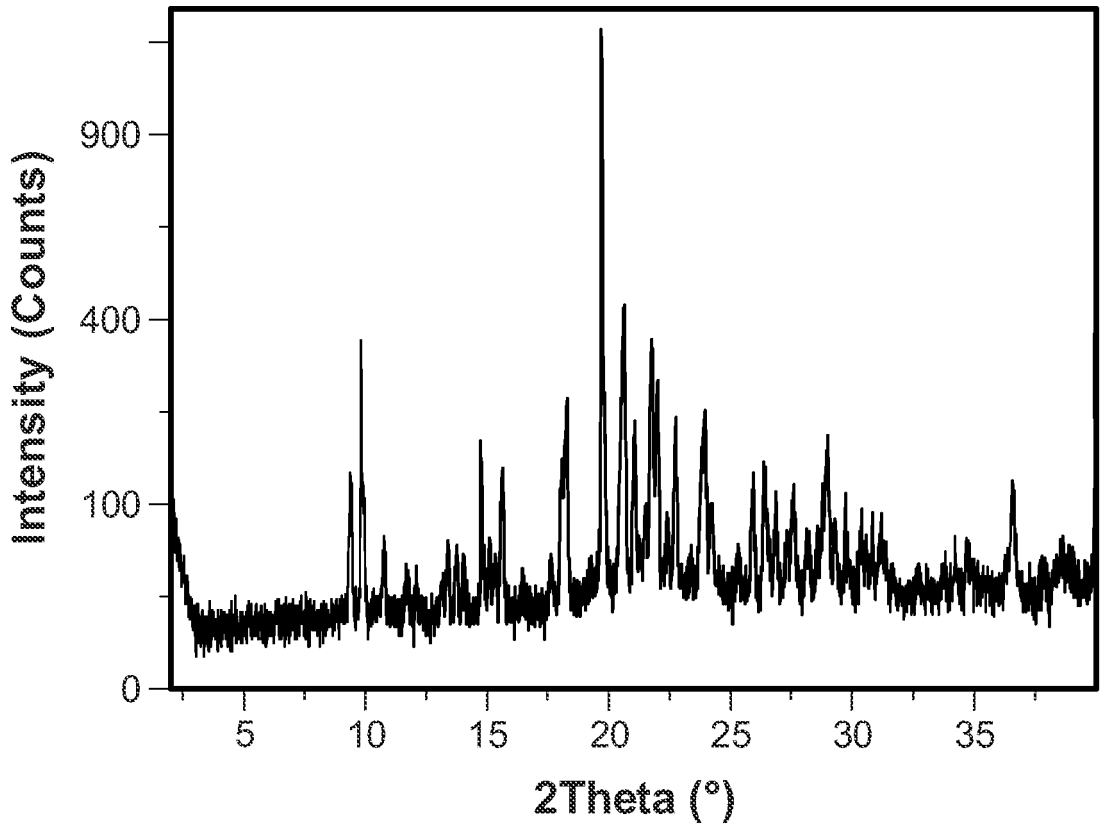
Intensity (Counts)
900
400
100
0
5
10
15
20
25
30
35
2Theta (°)

FIG. 12

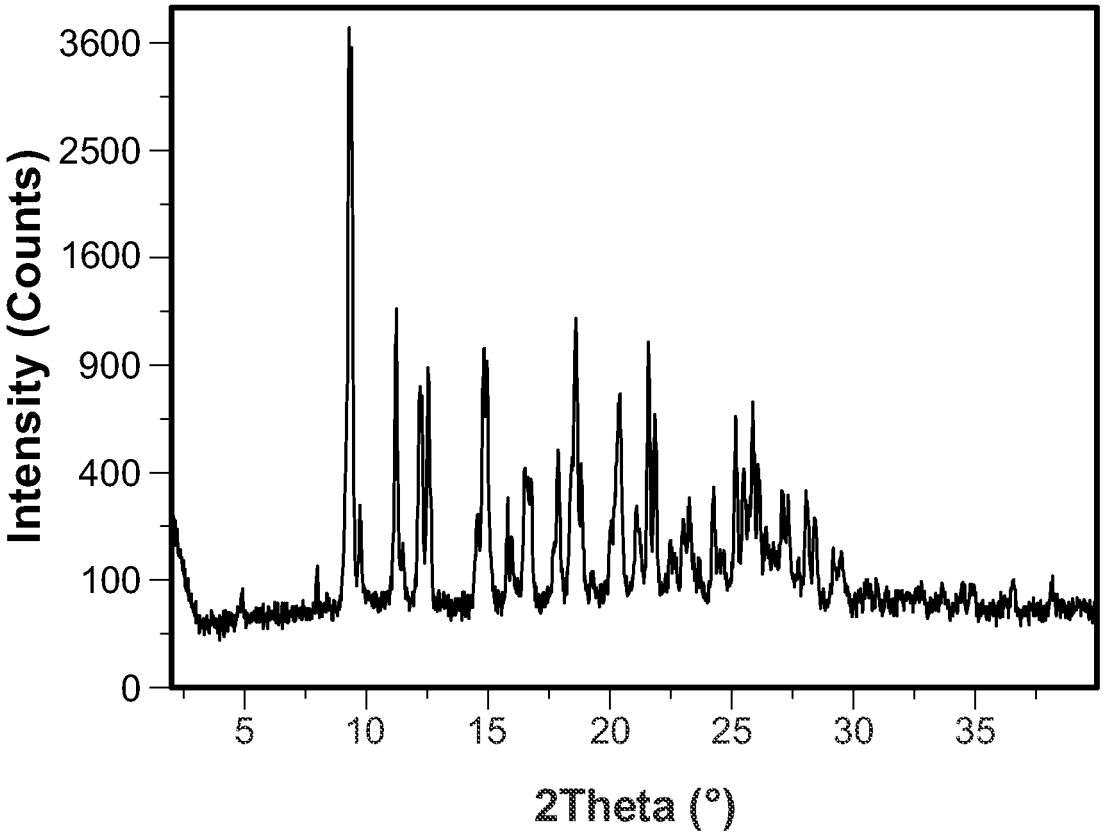

FIG. 13

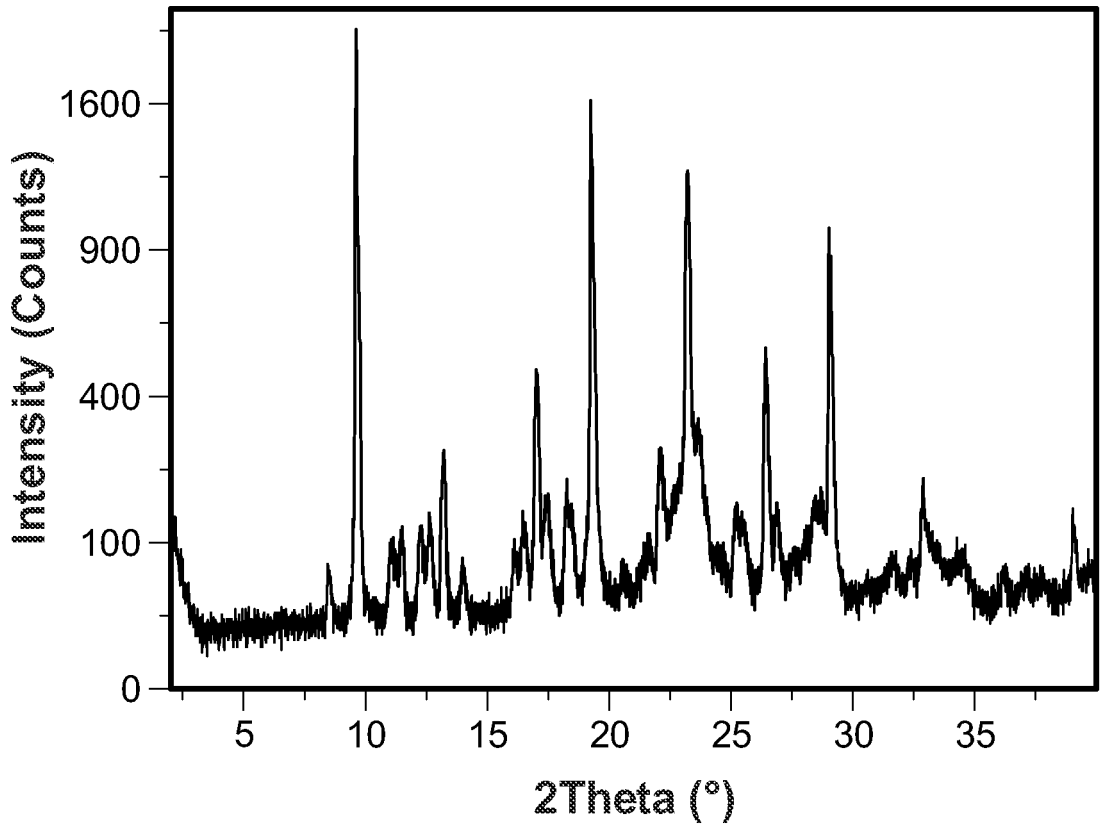

FIG. 14A

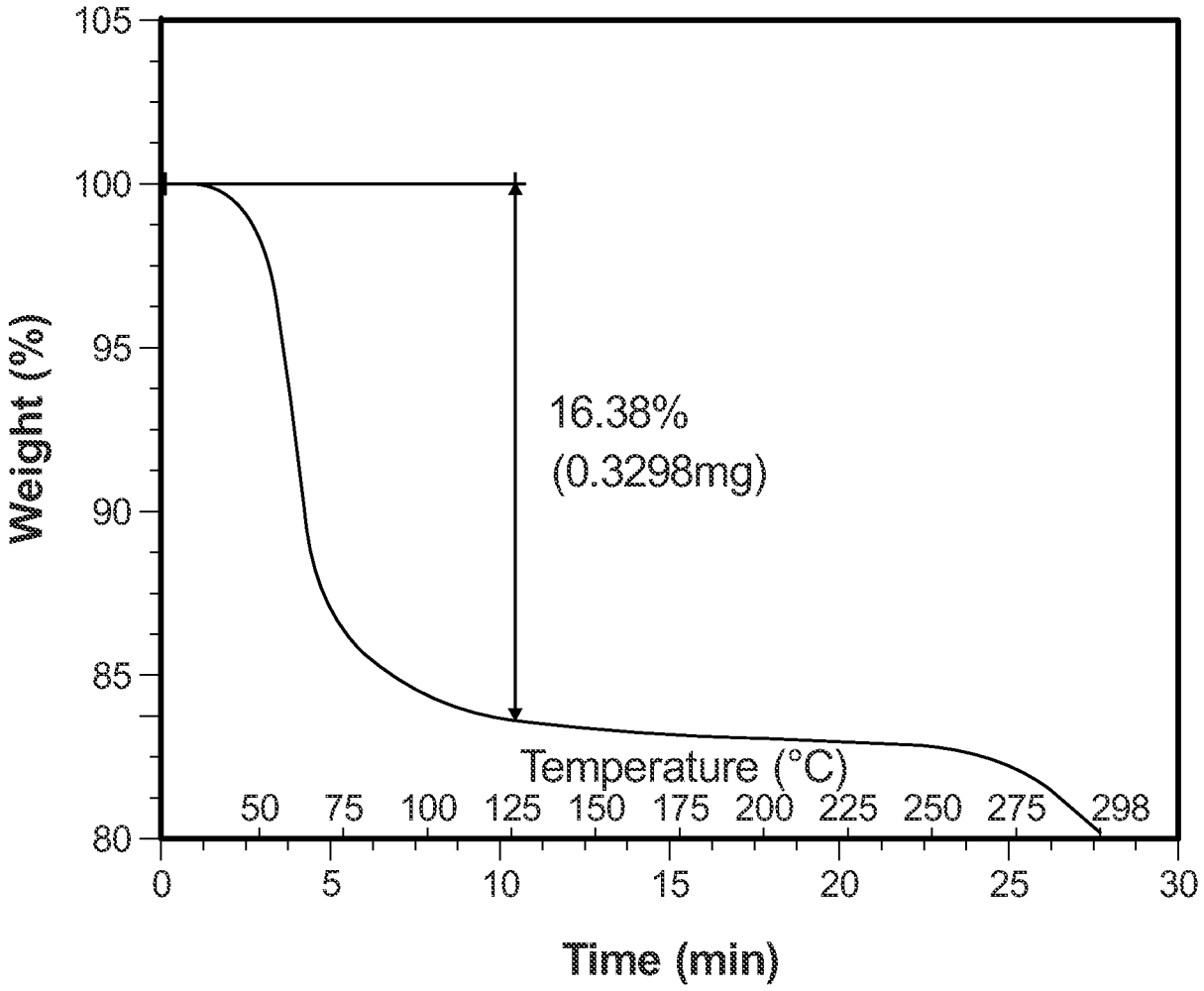
105
100
95
90
85
80
Weight (%)
16.38%
(0.3298mg)
Temperature (°C)
50 75 100 125 150 175 200 225 250 275 298
0 5 10 15 20 25 30
Time (min)

FIG. 14B