FIG. 1

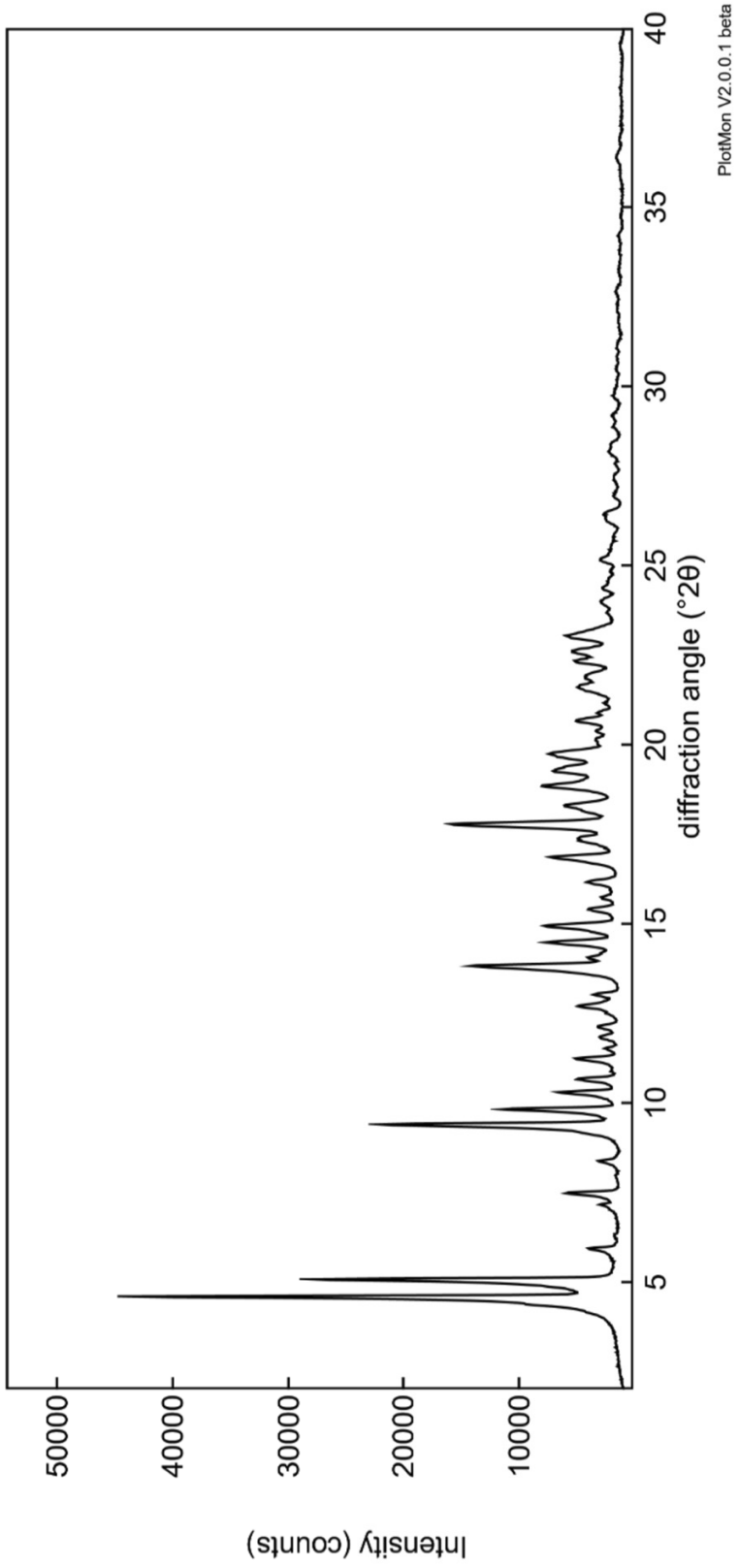

Intensity (counts)
50000
40000
30000
20000
10000
5
10
15
20
25
30
35
40
diffraction angle (°2θ)
PlotMon V2.0.0.1 beta

FIG. 2

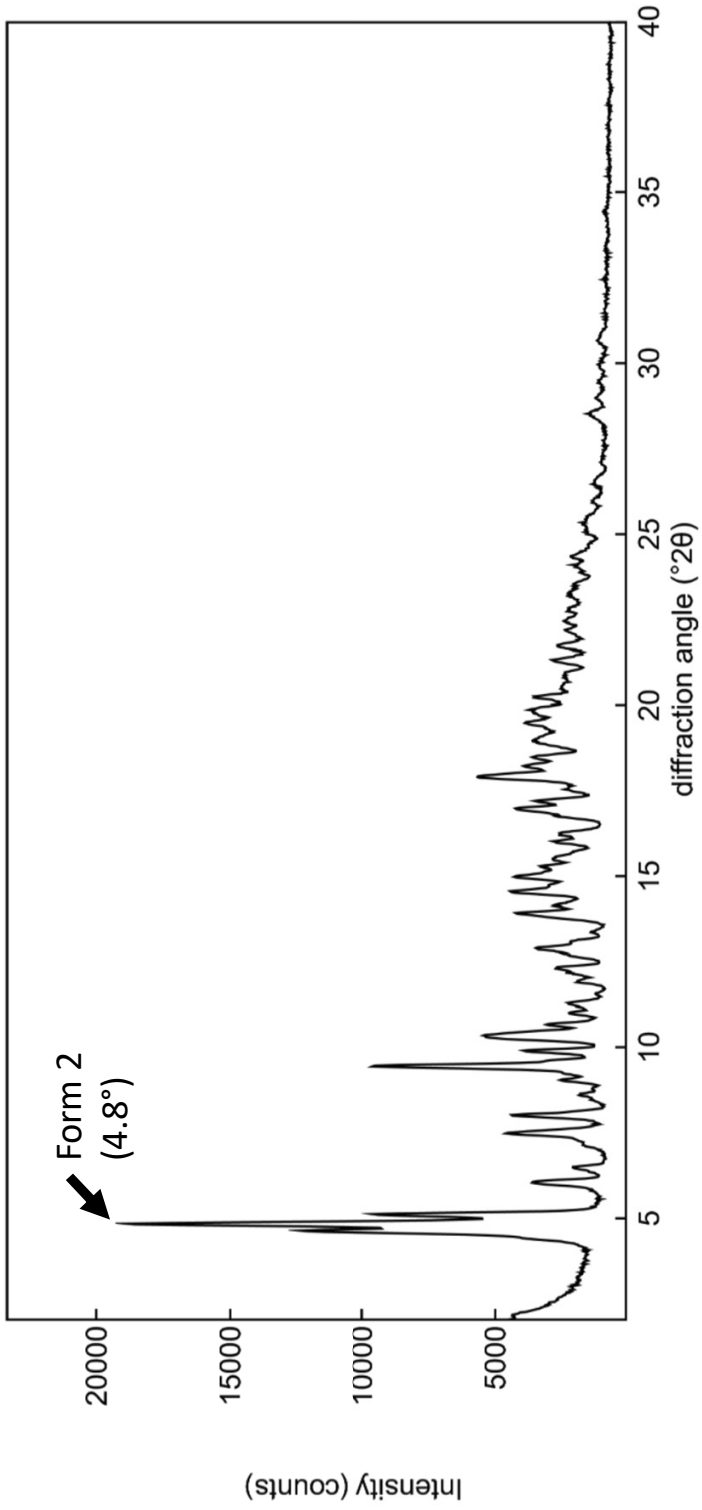

Form 2
(4.8°)
20000
15000
10000
5000
Intensity (counts)
5
10
15
20
25
30
35
40
diffraction angle (°2θ)

FIG. 3

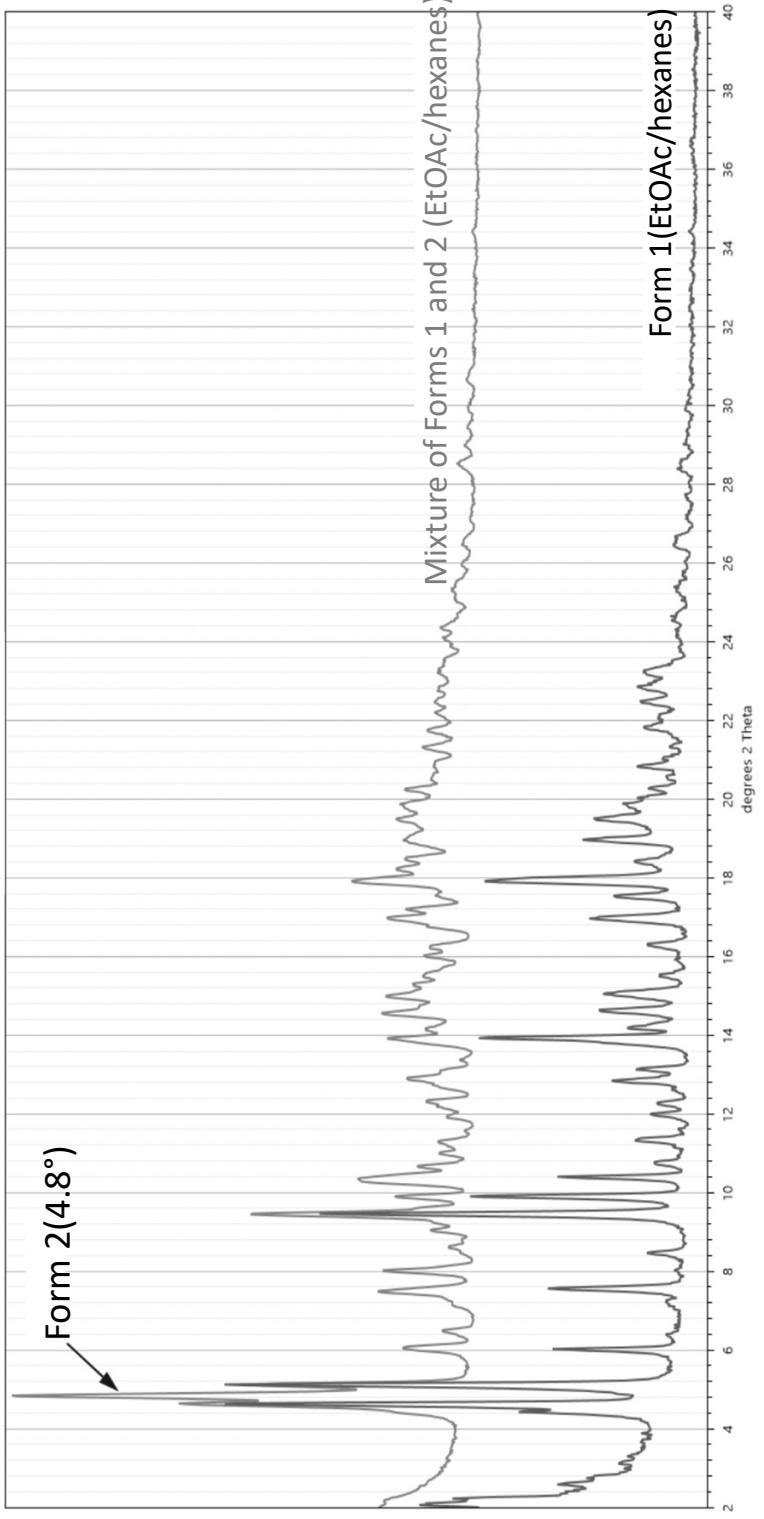

Form 2(4.8°)
Mixture of Forms 1 and 2 (EtOAc/hexane$)
Form 1(EtOAc/hexanes)
degrees 2 Theta
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40

FIG. 4

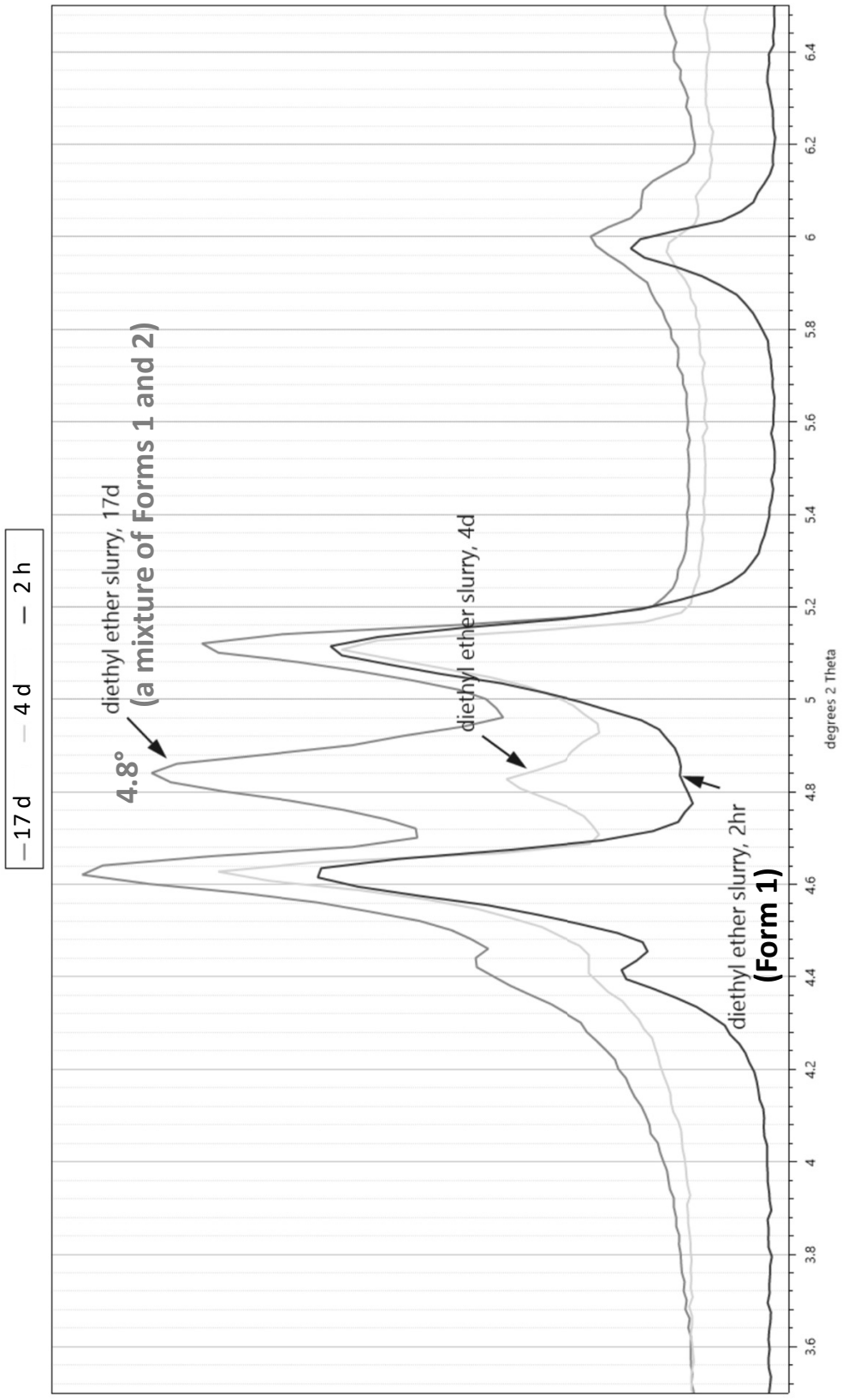

17 d
4 d
2 h
4.8°
diethyl ether slurry, 17d
(a mixture of Forms 1 and 2)
diethyl ether slurry, 4d
diethyl ether slurry, 2hr
(Form 1)
degrees 2 Theta
3.6
3.8
4
4.2
4.4
4.6
4.8
5
5.2
5.4
5.6
5.8
6
6.2
6.4

FIG. 5

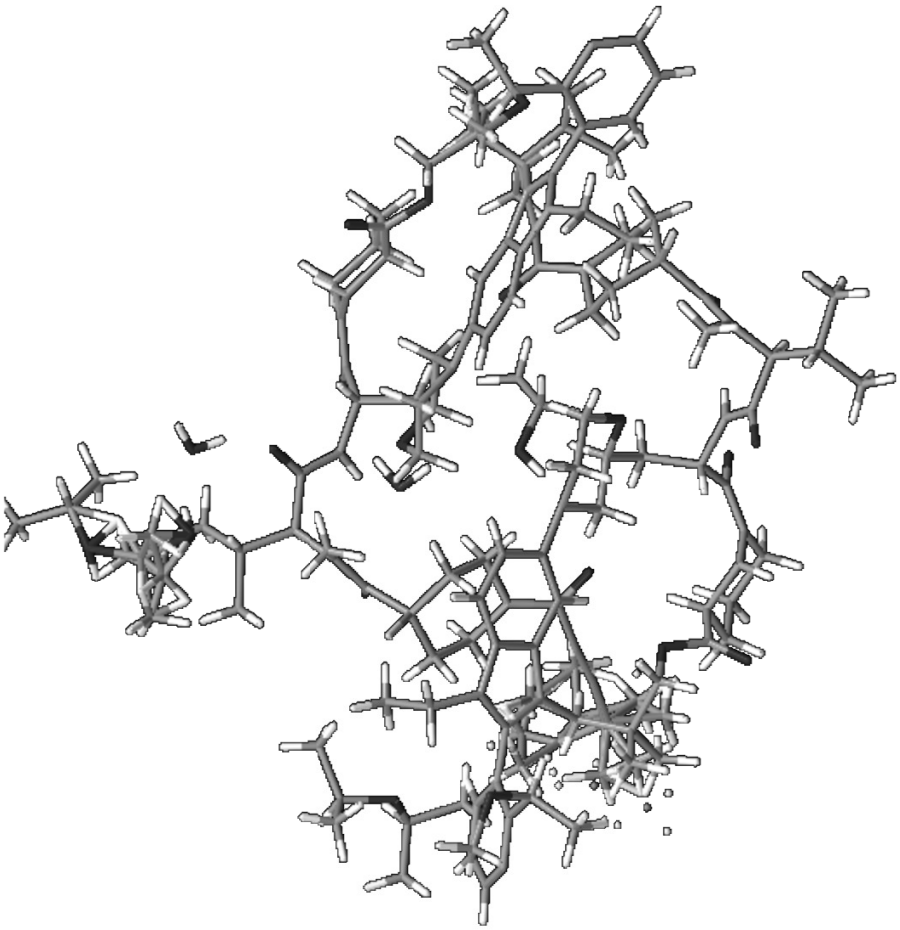


FIG. 6

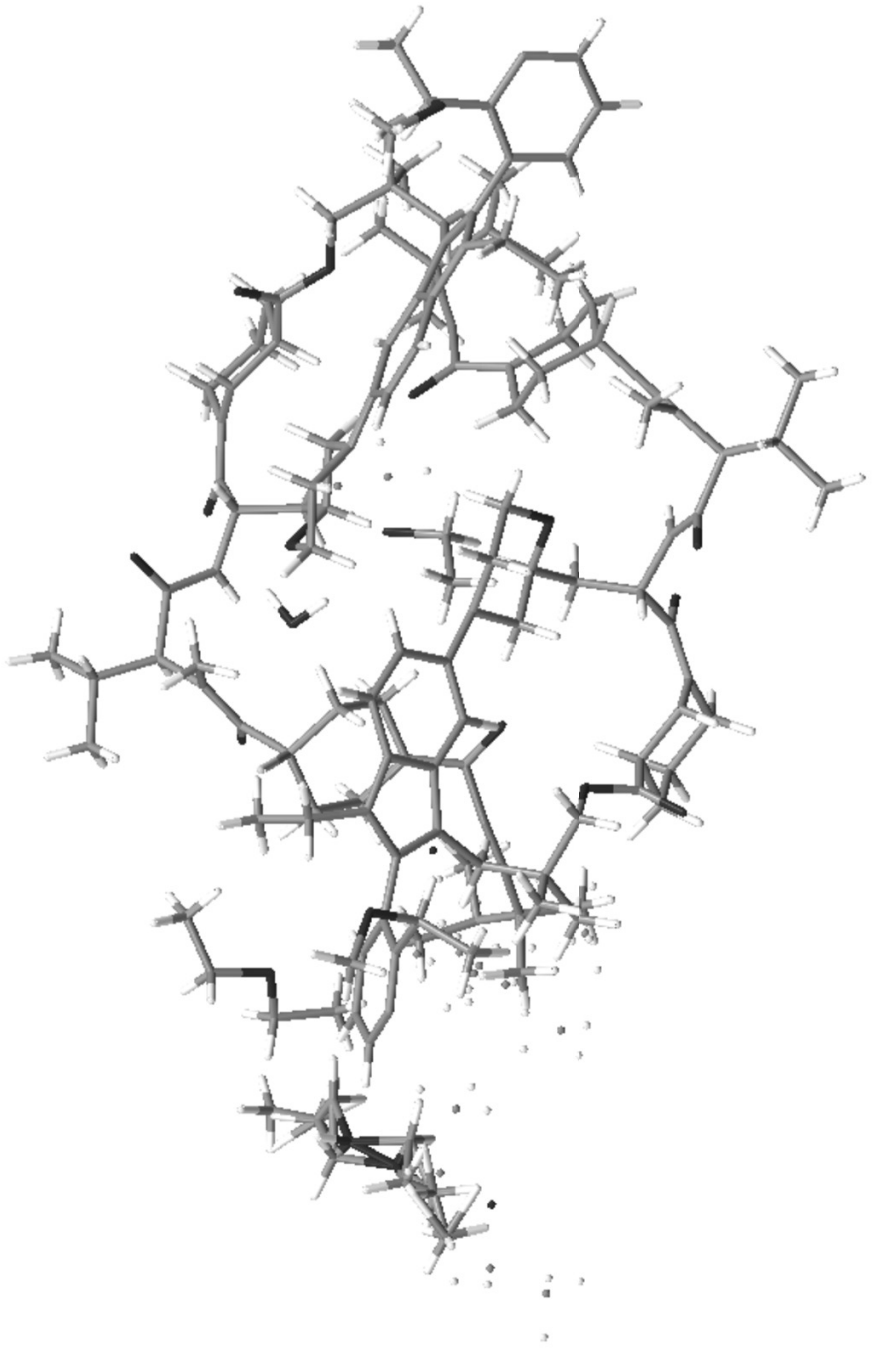


FIG. 7

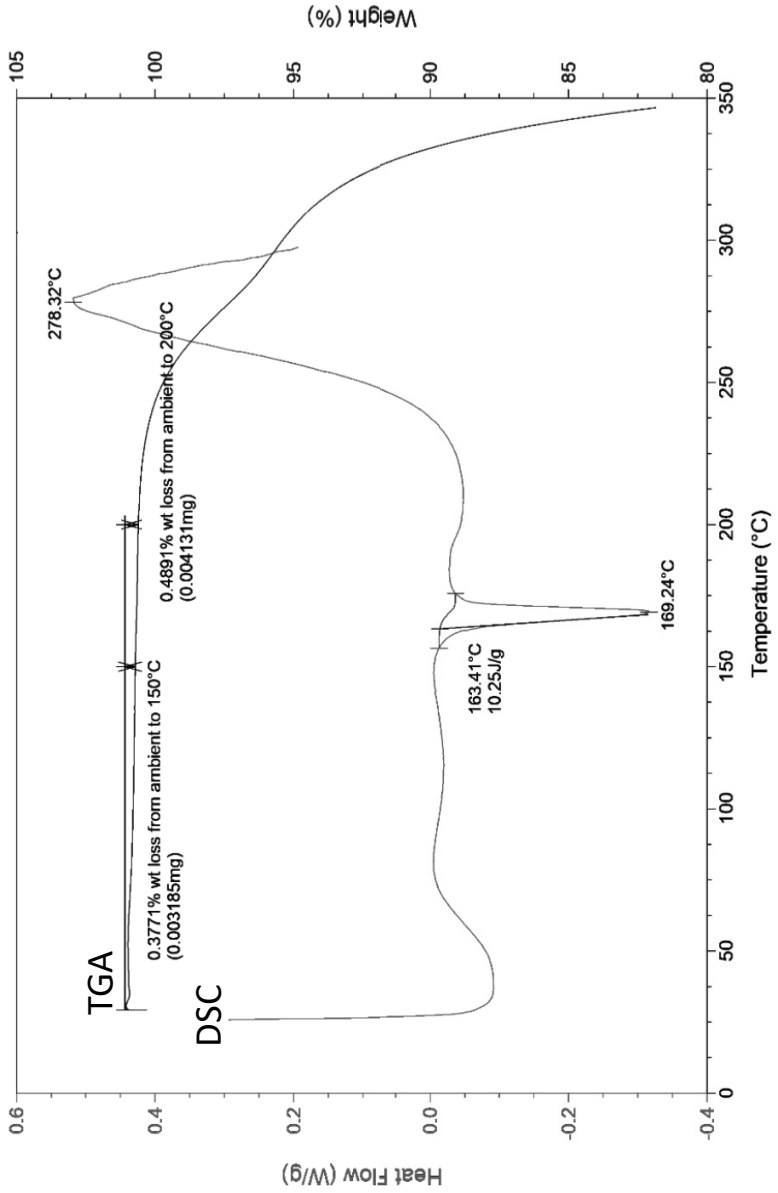

Weight (%)
105
100
95
90
85
80
350
300
250
200
150
100
50
0
Temperature (°C)
Heat Flow (W/g)
0.6
0.4
0.2
0.0
-0.2
-0.4
TGA
DSC
278.32°C
0.4891% wt loss from ambient to 200°C
(0.004131mg)
0.3771% wt loss from ambient to 150°C
(0.003185mg)
163.41°C
10.25J/g
169.24°C

FIG. 8

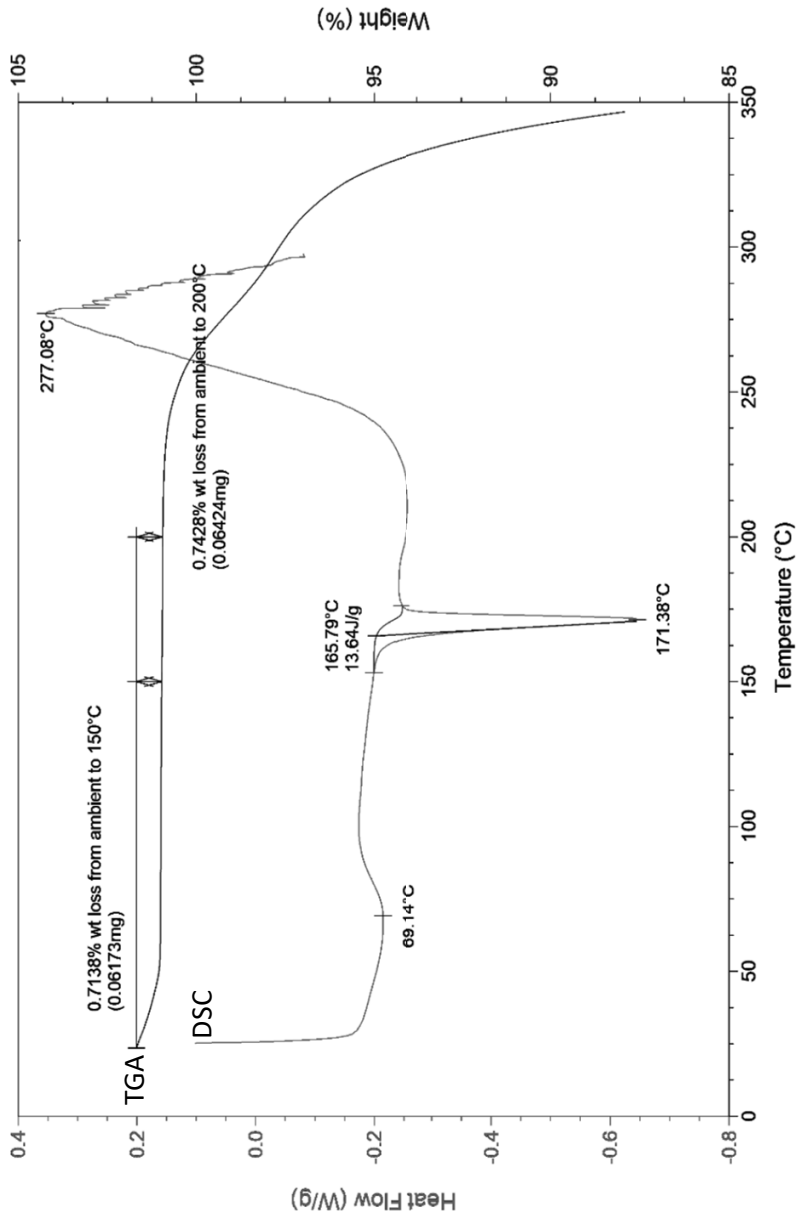

Weight (%)
105
100
95
90
85
Heat Flow (W/g)
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
Temperature (°C)
0
50
100
150
200
250
300
350
TGA
DSC
0.7138% wt loss from ambient to 150°C
(0.06173mg)
0.7428% wt loss from ambient to 200°C
(0.06424mg)
277.08°C
165.79°C
13.64J/g
69.14°C
171.38°C

FIG. 9

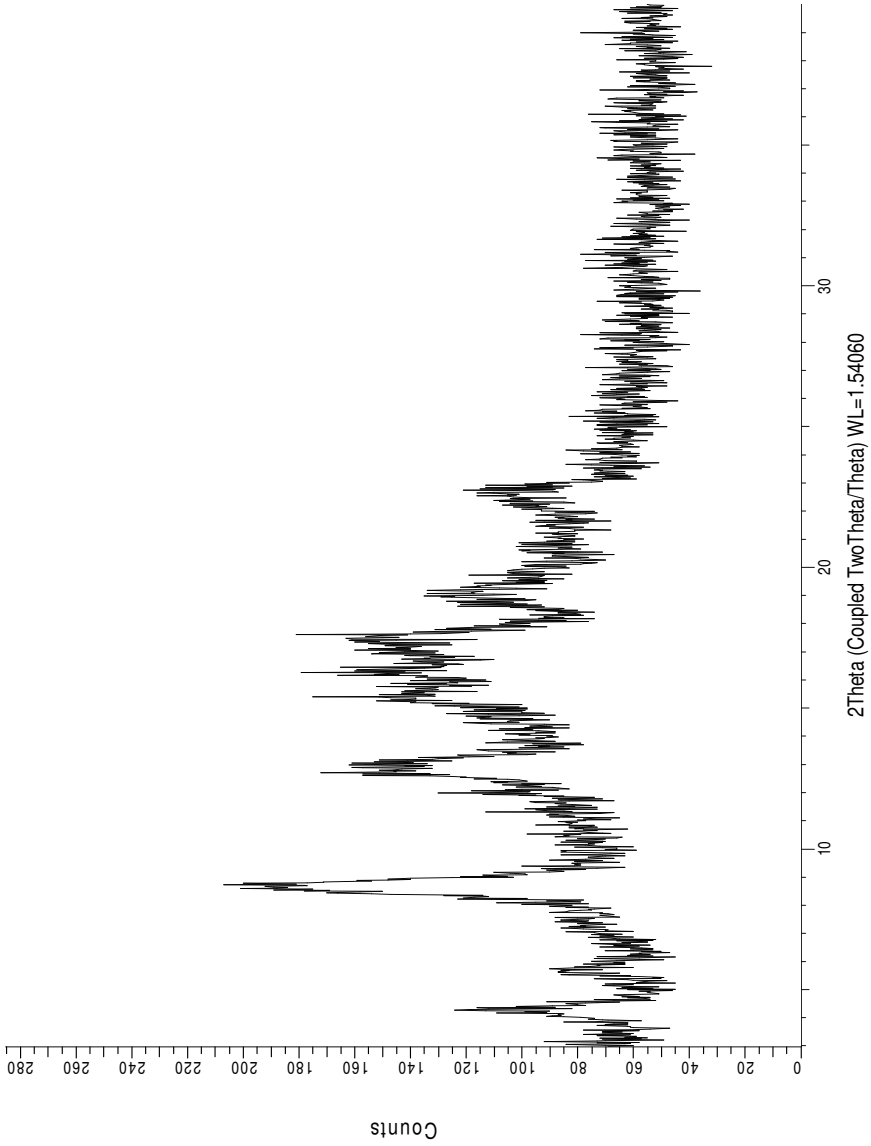

Counts
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
10
20
30
2Theta (Coupled TwoTheta/Theta) WL=1.54060

FIG. 10

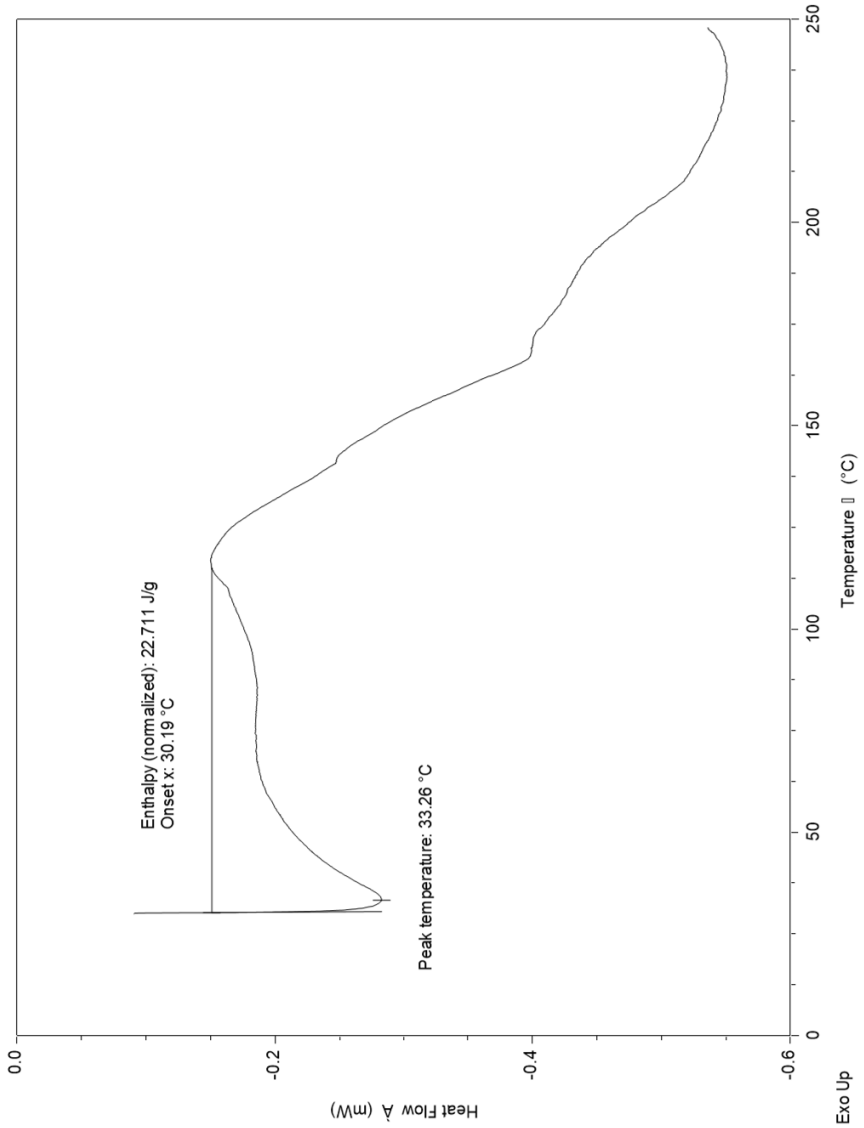

Enthalpy (normalized): 22.711 J/g
Onset x: 30.19 °C
Peak temperature: 33.26 °C
Heat Flow Å (mW)
Temperature ▯ (°C)
Exo Up
0.0
-0.2
-0.4
-0.6
0
50
100
150
200
250

FIG. 11

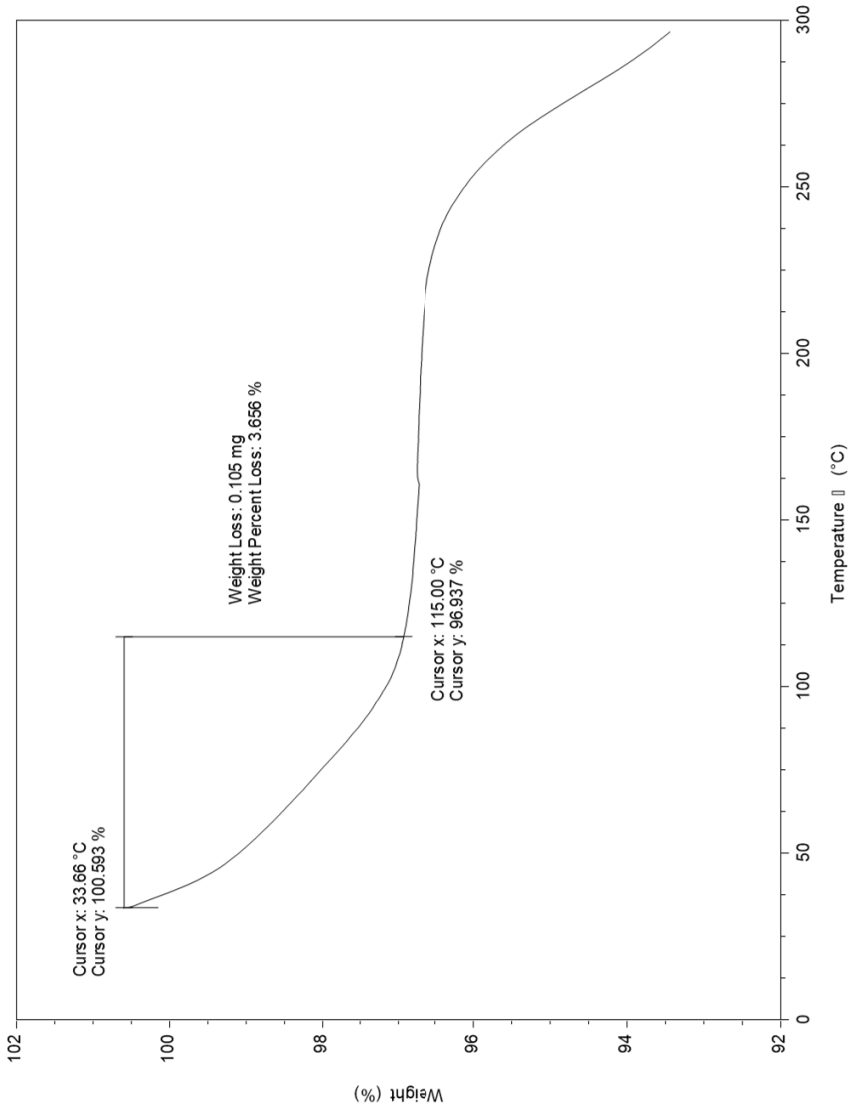

Cursor x: 33.66 °C
Cursor y: 100.593 %
Weight Loss: 0.105 mg
Weight Percent Loss: 3.656 %
Cursor x: 115.00 °C
Cursor y: 96.937 %
Weight (%)
Temperature (°C)
102
100
98
96
94
92
0
50
100
150
200
250
300

FIG. 12

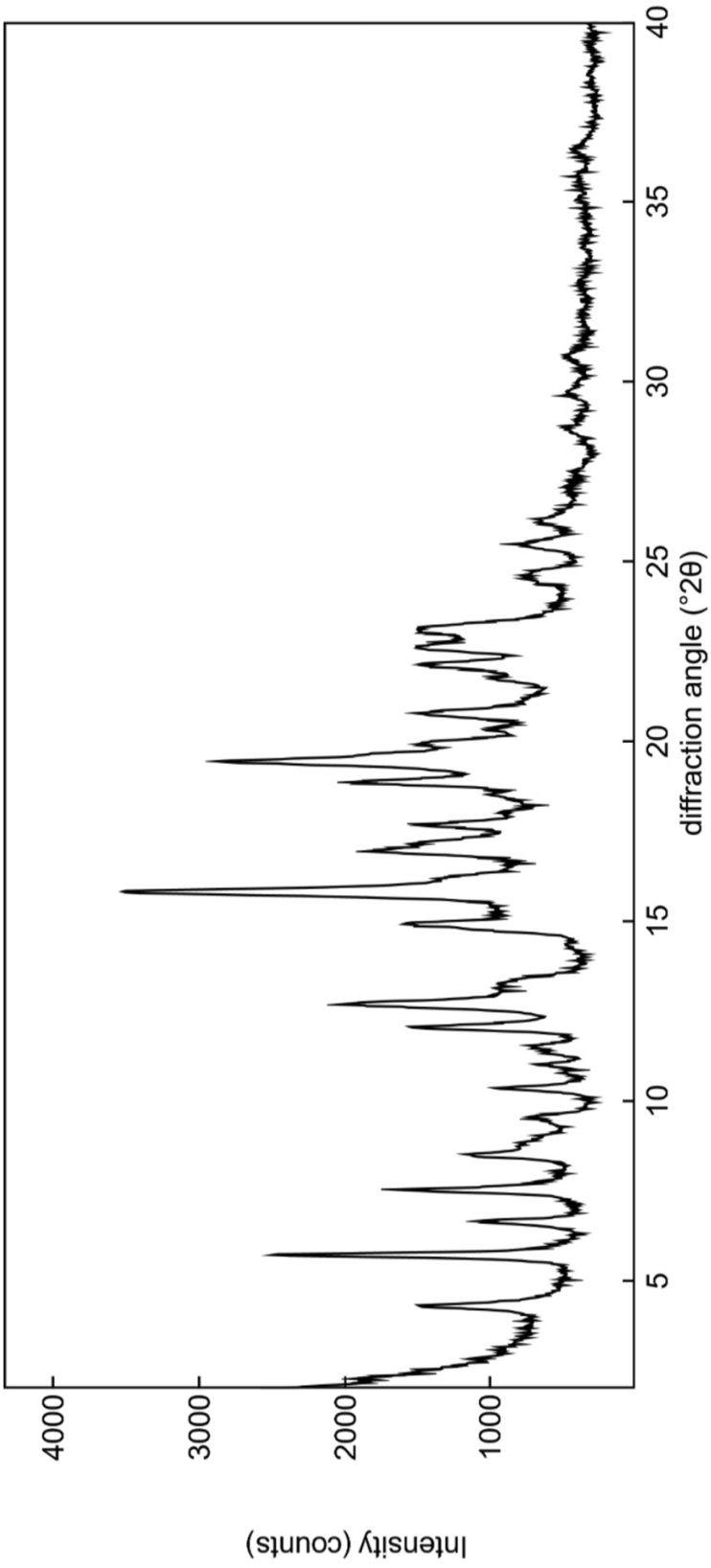

Intensity (counts)
4000
3000
2000
1000
5
10
15
20
25
30
35
40
diffraction angle (°2θ)

FIG. 13

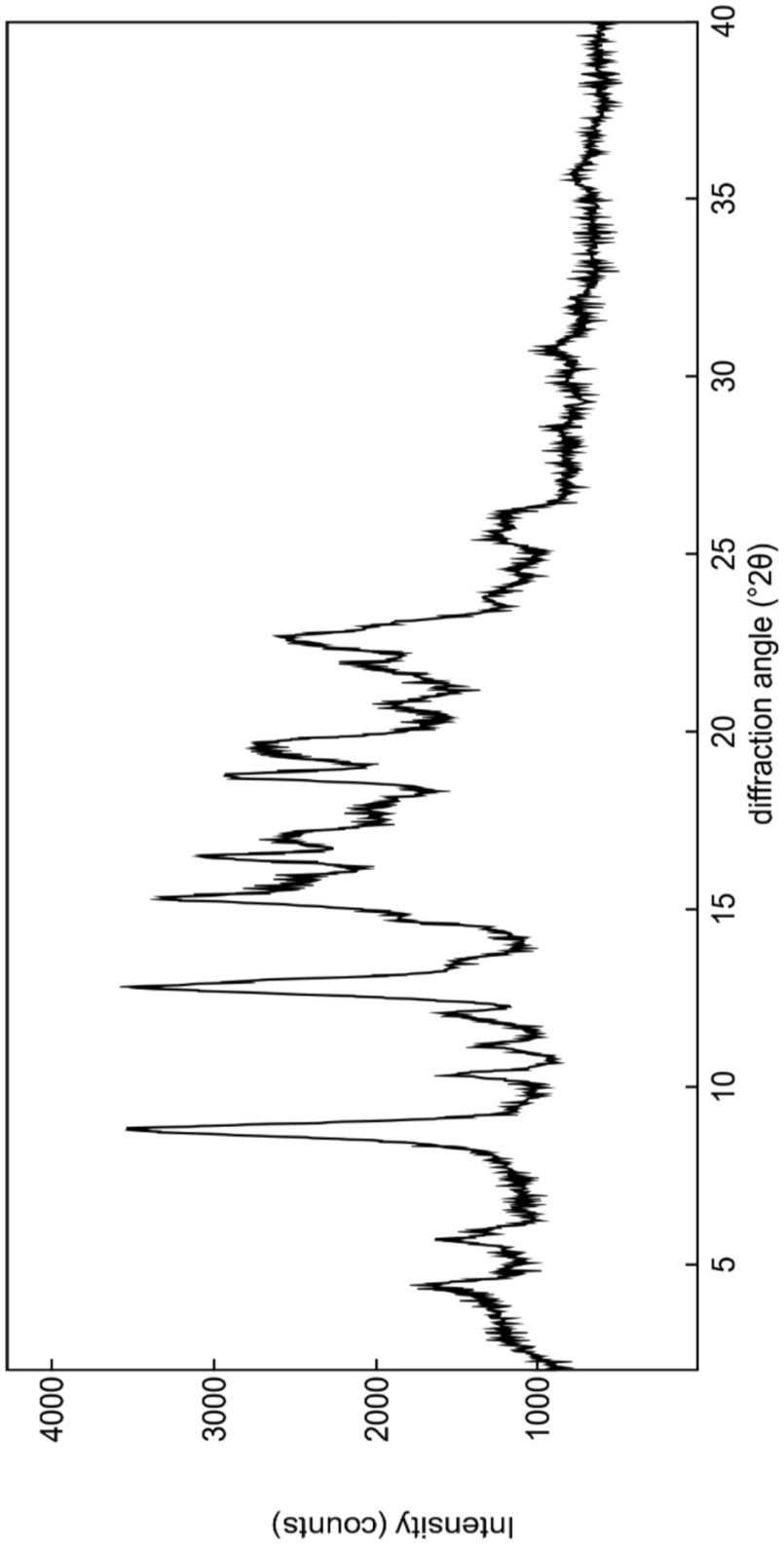
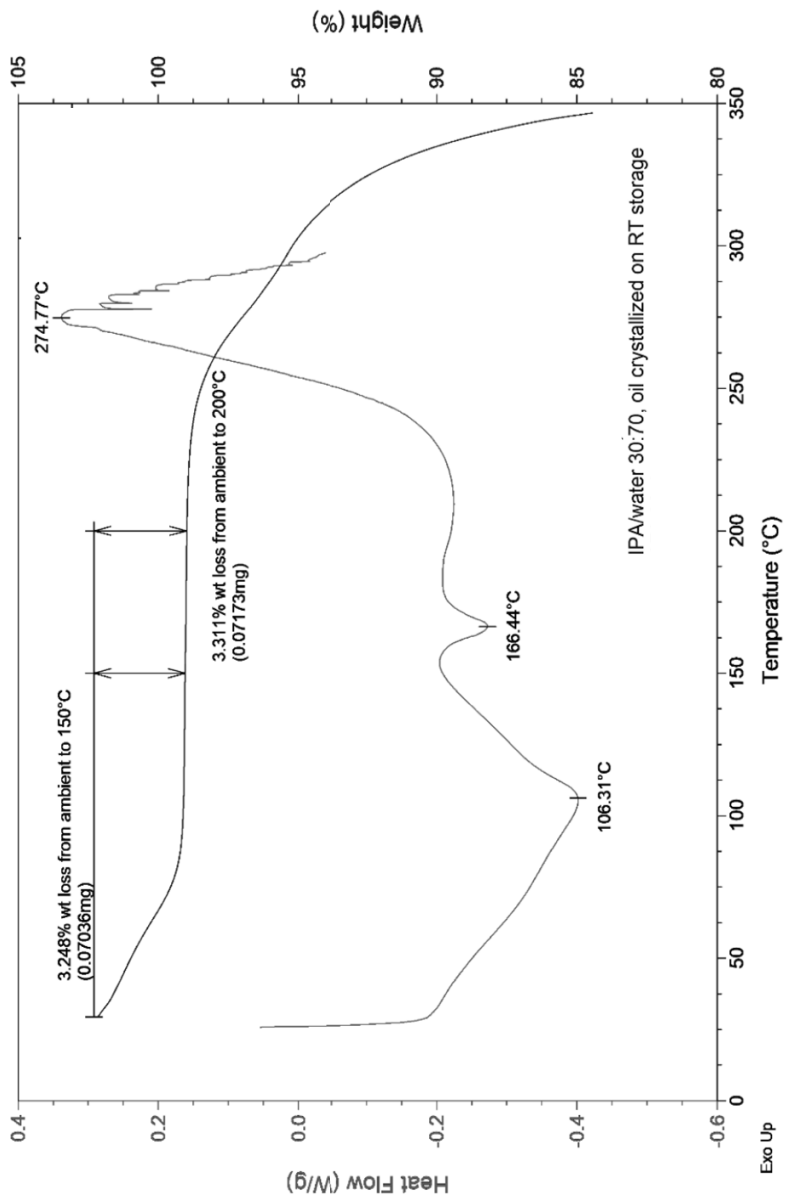

Intensity (counts)
4000
3000
2000
1000
5
10
15
20
25
30
35
40
diffraction angle (°2θ)

FIG. 14


Weight (%)
105
100
95
90
85
80
274.77°C
3.248% wt loss from ambient to 150°C
(0.07036mg)
3.311% wt loss from ambient to 200°C
(0.07173mg)
166.44°C
106.31°C
IPA/water 30:70, oil crystallized on RT storage
Heat Flow (W/g)
0.4
0.2
0.0
-0.2
-0.4
-0.6
Exo Up
0
50
100
150
200
250
300
350
Temperature (°C)