Fig. 1

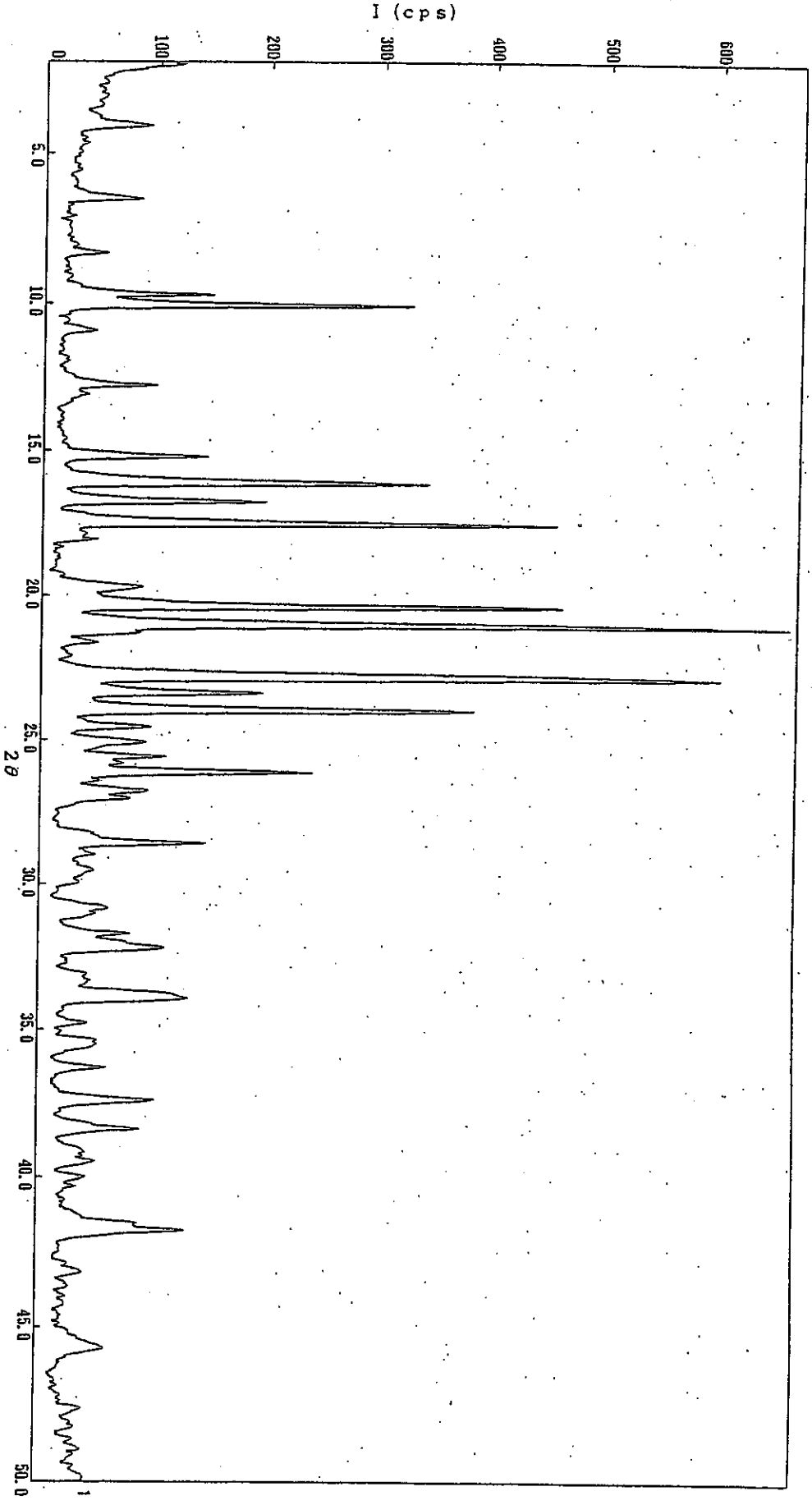

I (cps)
0
100
200
300
400
500
600
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
2θ

Fig. 2

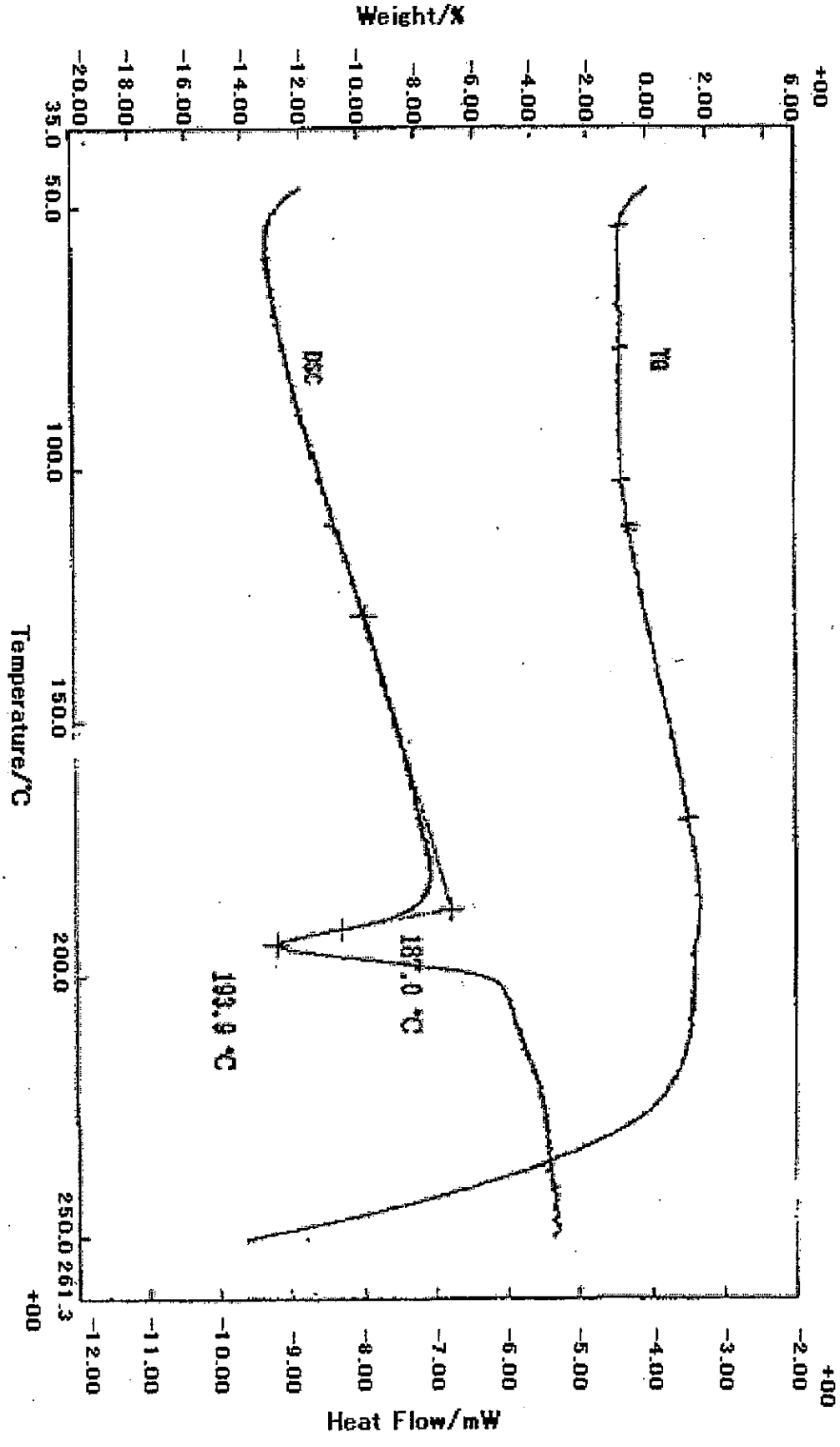

Weight/%
+00
6.00
2.00
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
-12.00
-14.00
-16.00
-18.00
-20.00
TG
DSC
187.0 °C
193.9 °C
35.0
50.0
100.0
150.0
200.0
250.0
261.3
Temperature/°C
+00
-2.00
-3.00
-4.00
-5.00
-6.00
-7.00
-8.00
-9.00
-10.00
-11.00
-12.00
Heat Flow/mW

Fig. 3

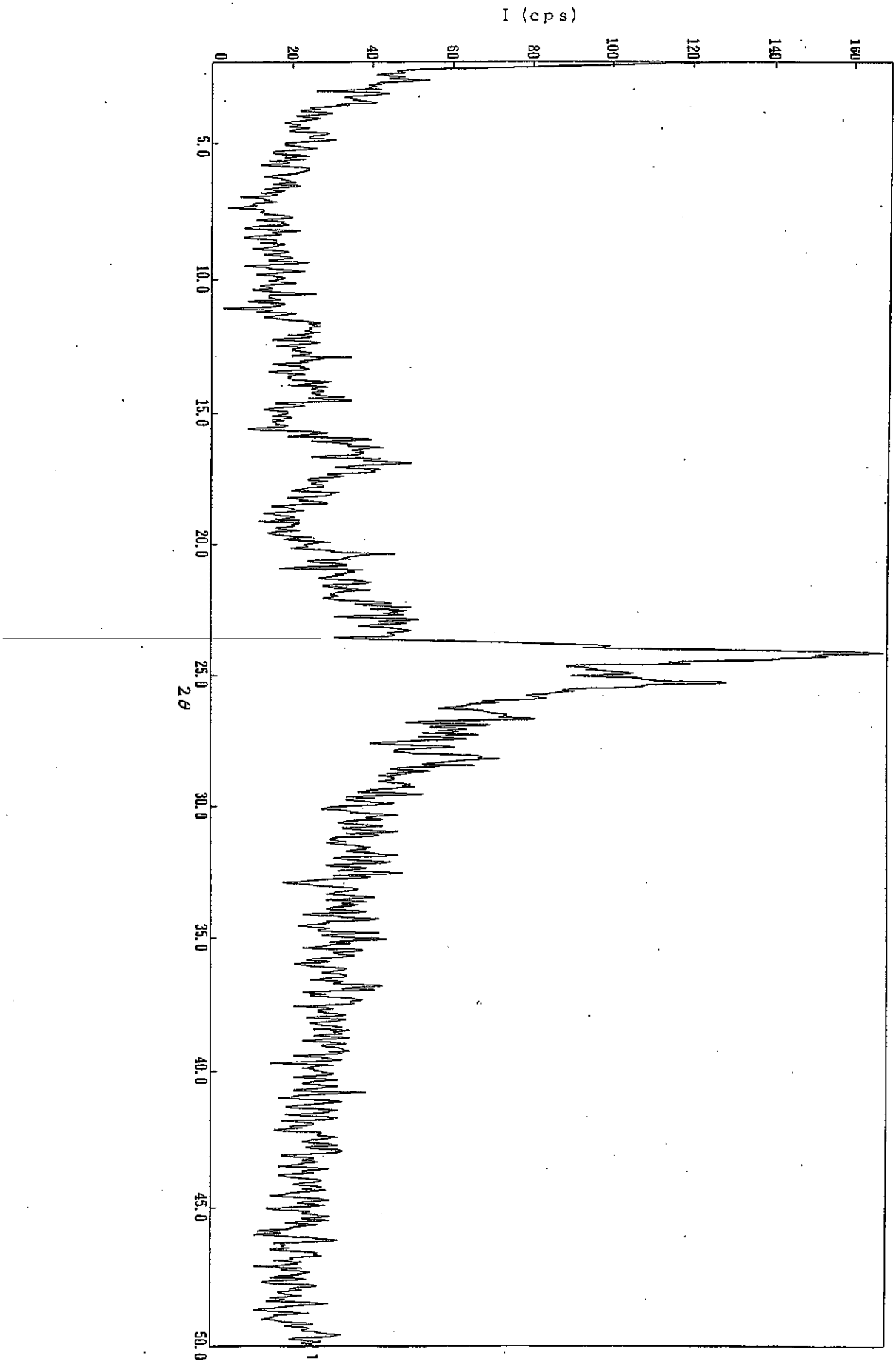

I (cps)
0
20
40
60
80
100
120
140
160
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
2θ

Fig. 4

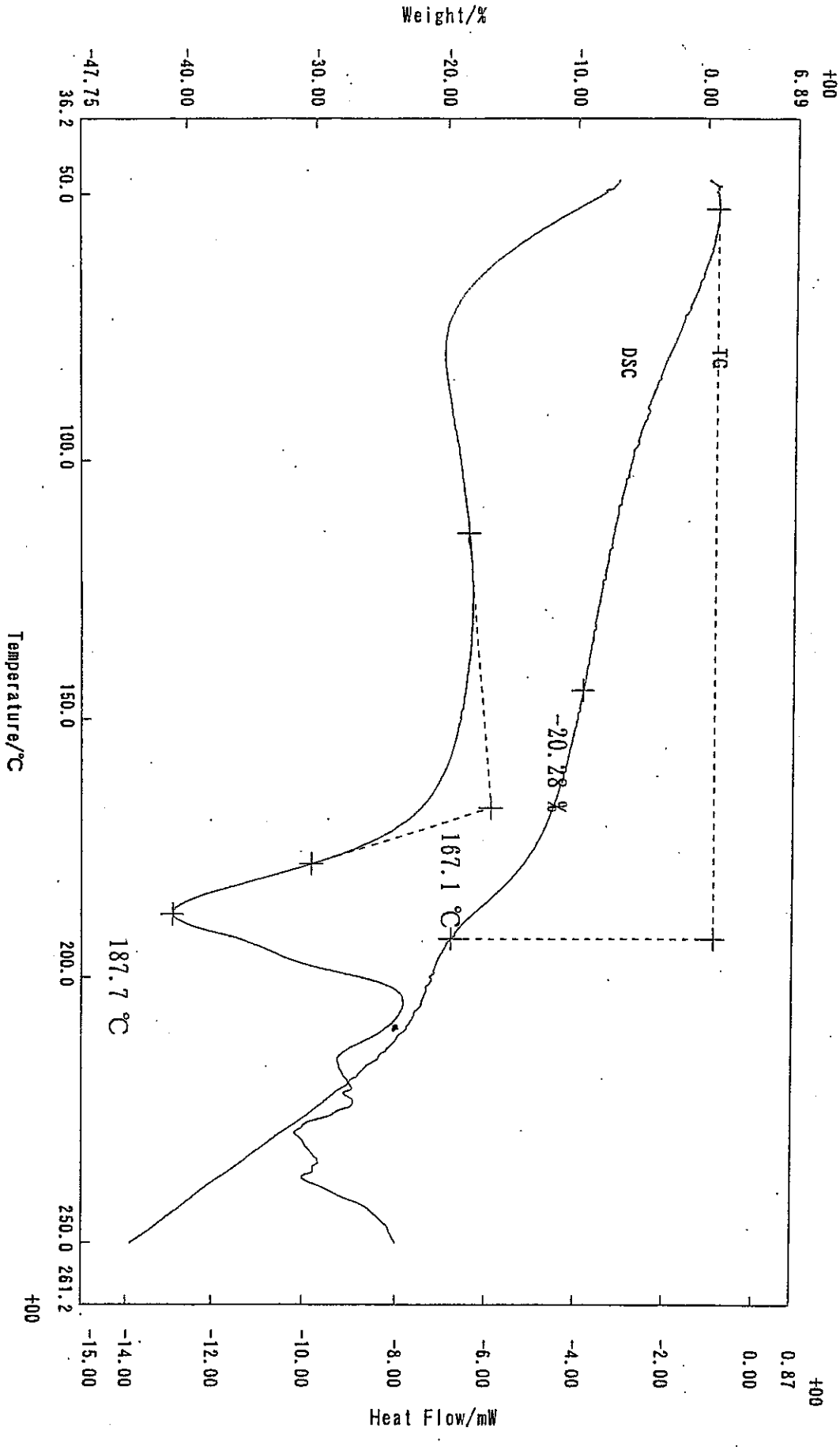

Weight/%
+00
6.89
0.00
-10.00
-20.00
-30.00
-40.00
-47.75
36.2
50.0
100.0
150.0
200.0
250.0
261.2
Temperature/℃
TG
DSC
-20.28 %
167.1 ℃
187.7 ℃
+00
0.87
0.00
-2.00
-4.00
-6.00
-8.00
-10.00
-12.00
-14.00
-15.00
Heat Flow/mW

Fig. 5

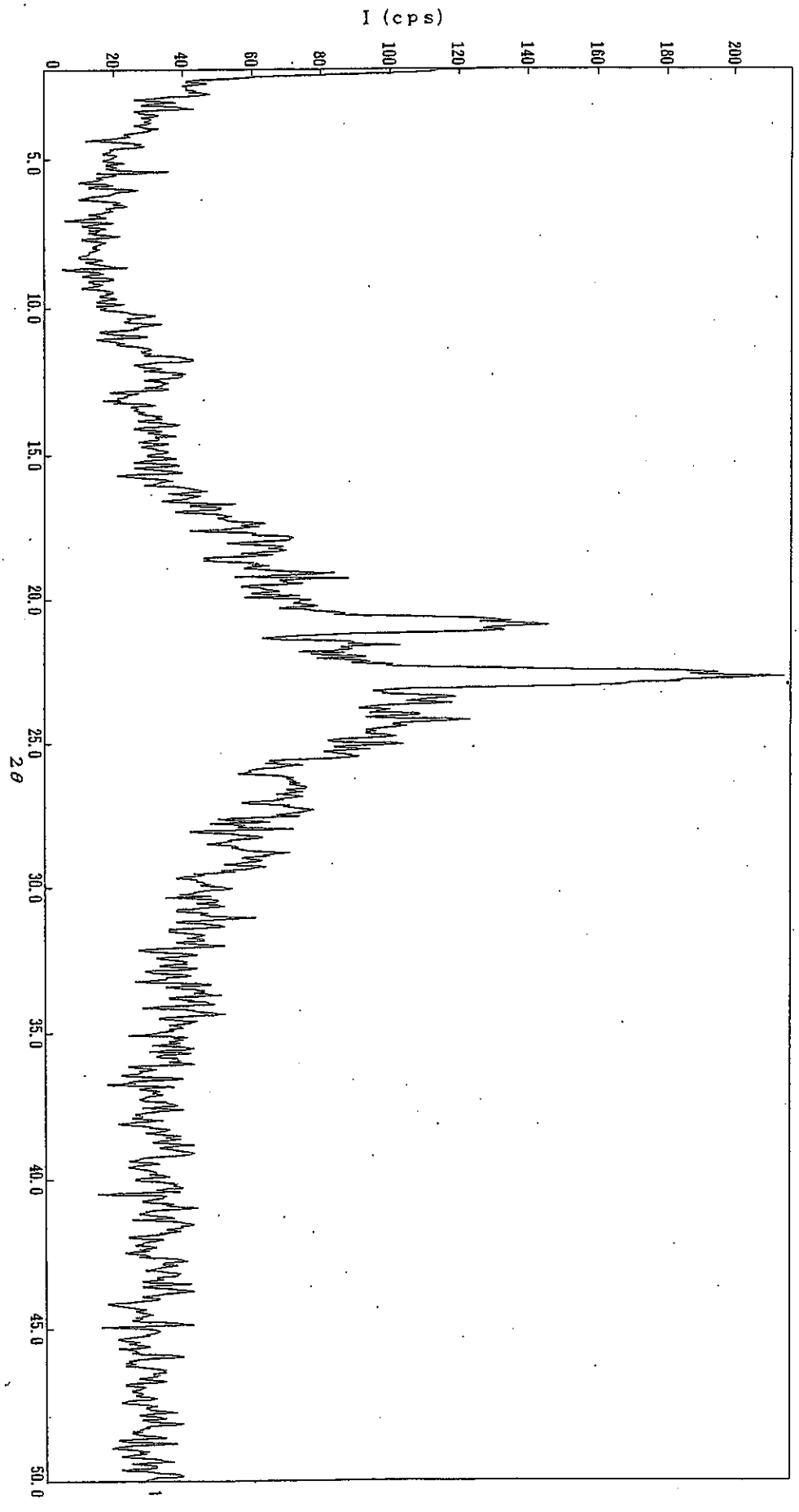

I (cps)
0
20
40
60
80
100
120
140
160
180
200
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
2θ

Fig. 6

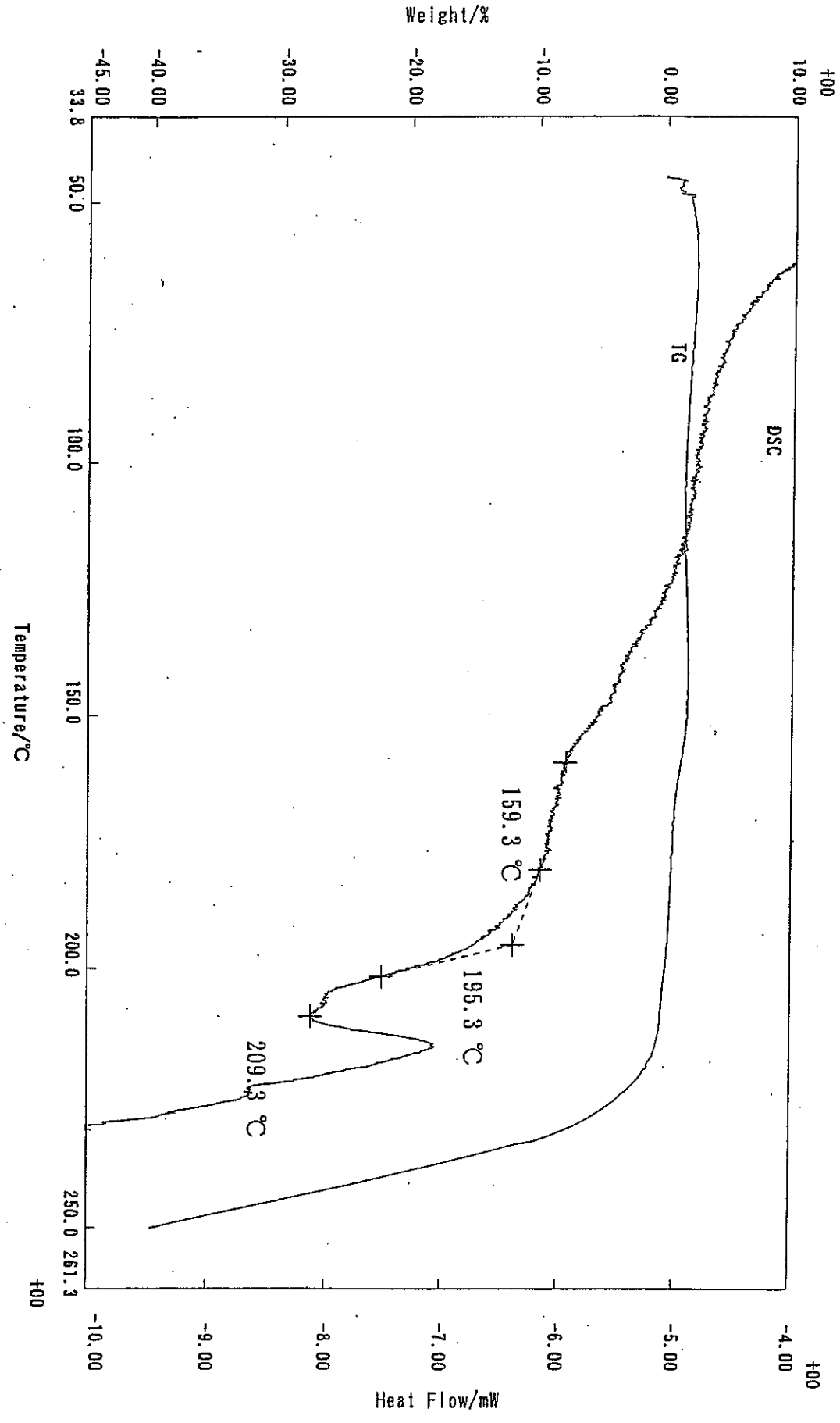

Weight/%
-45.00
-40.00
-30.00
-20.00
-10.00
0.00
+00
10.00
33.8
50.0
100.0
150.0
200.0
250.0
261.3
Temperature/℃
TG
DSC
159.3 ℃
195.3 ℃
209.3 ℃
-10.00
-9.00
-8.00
-7.00
-6.00
-5.00
-4.00
+00
Heat Flow/mW

Fig. 7

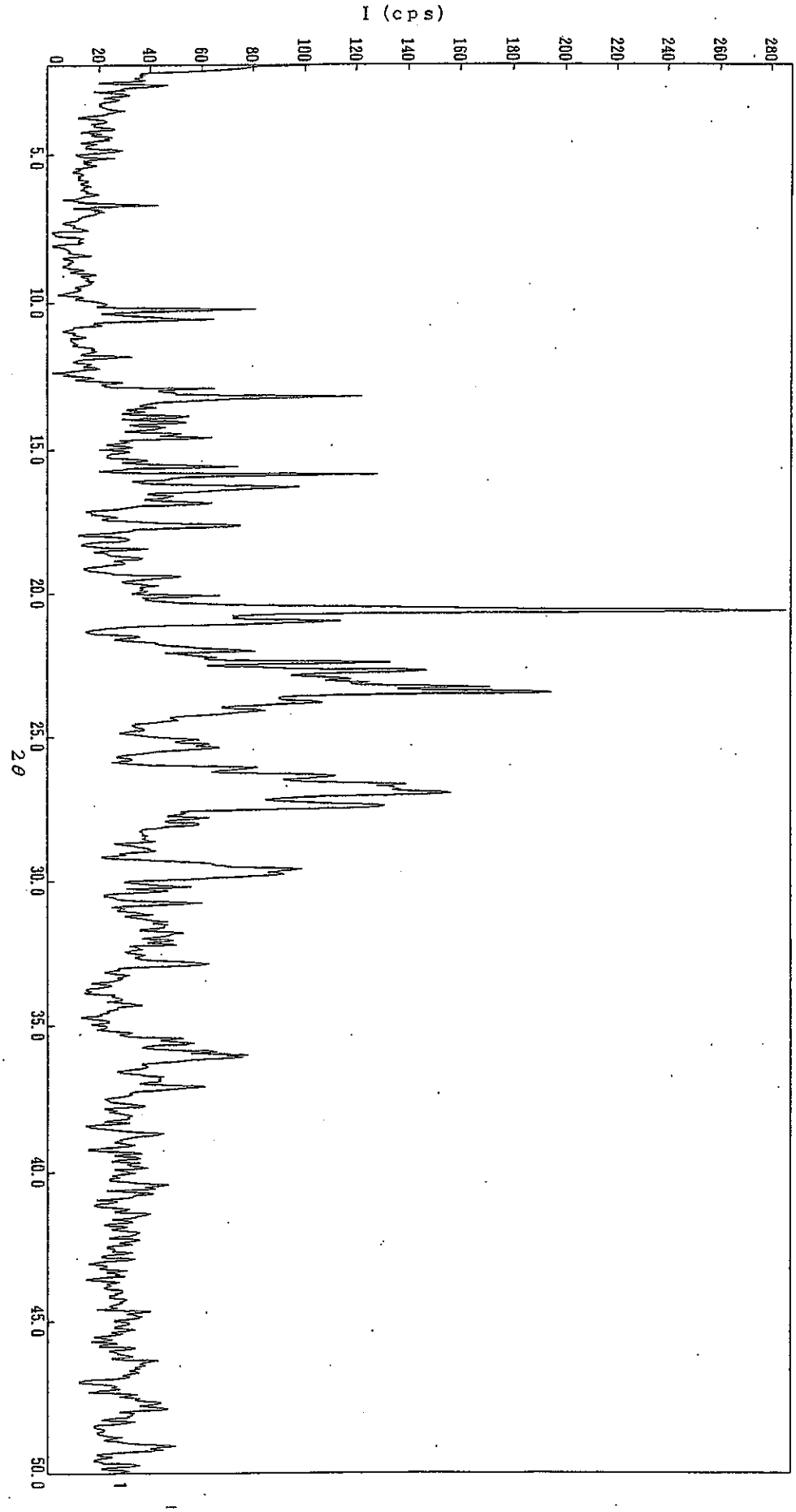

I (cps)
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
2θ

Fig. 8

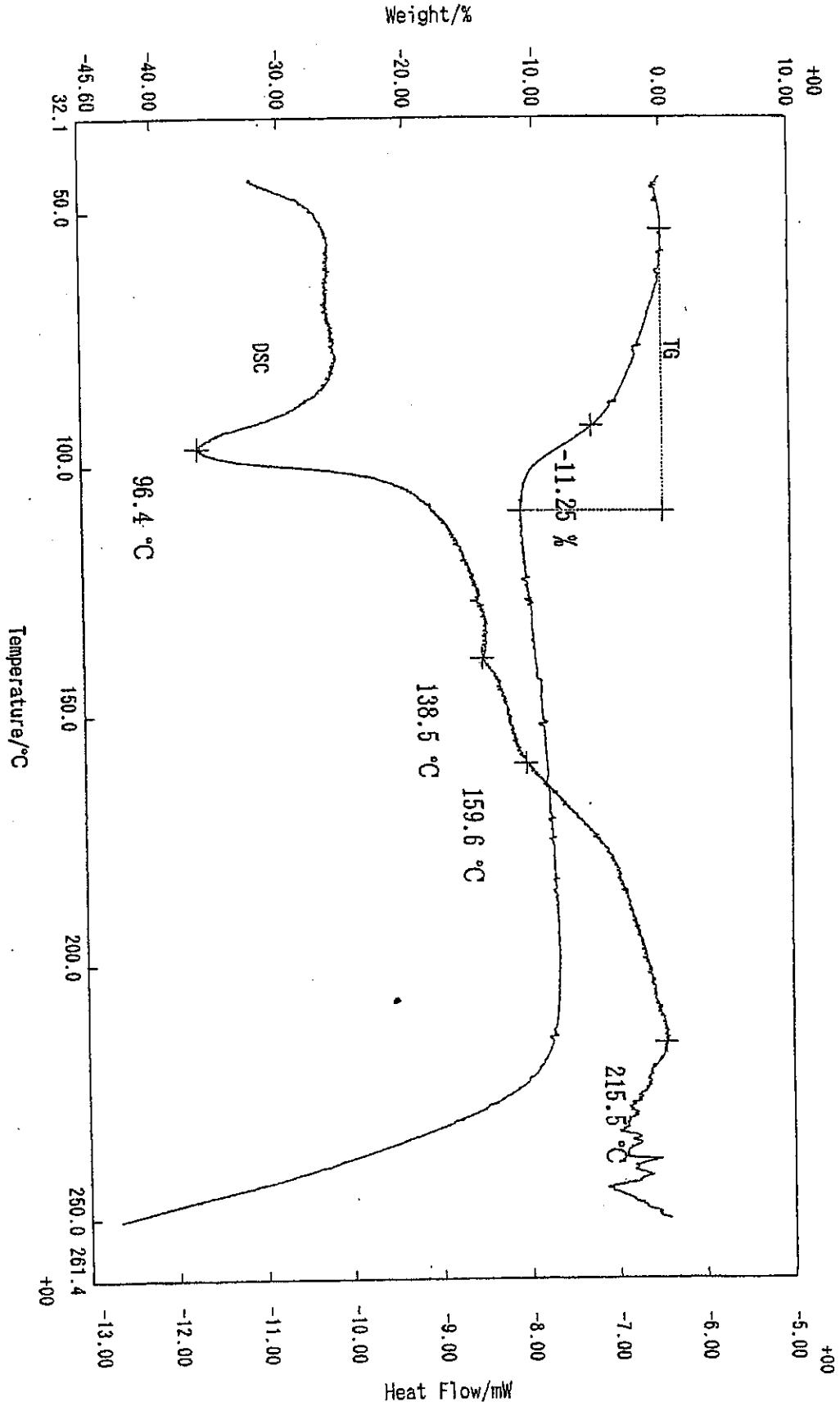

Weight/%
+00
10.00
0.00
-10.00
-20.00
-30.00
-40.00
-45.60
32.1
50.0
100.0
150.0
200.0
250.0
261.4
TG
-11.25 %
DSC
96.4 °C
138.5 °C
159.6 °C
215.5 °C
Temperature/°C
+00
-5.00
-6.00
-7.00
-8.00
-9.00
-10.00
-11.00
-12.00
-13.00
Heat Flow/mW

Fig. 9

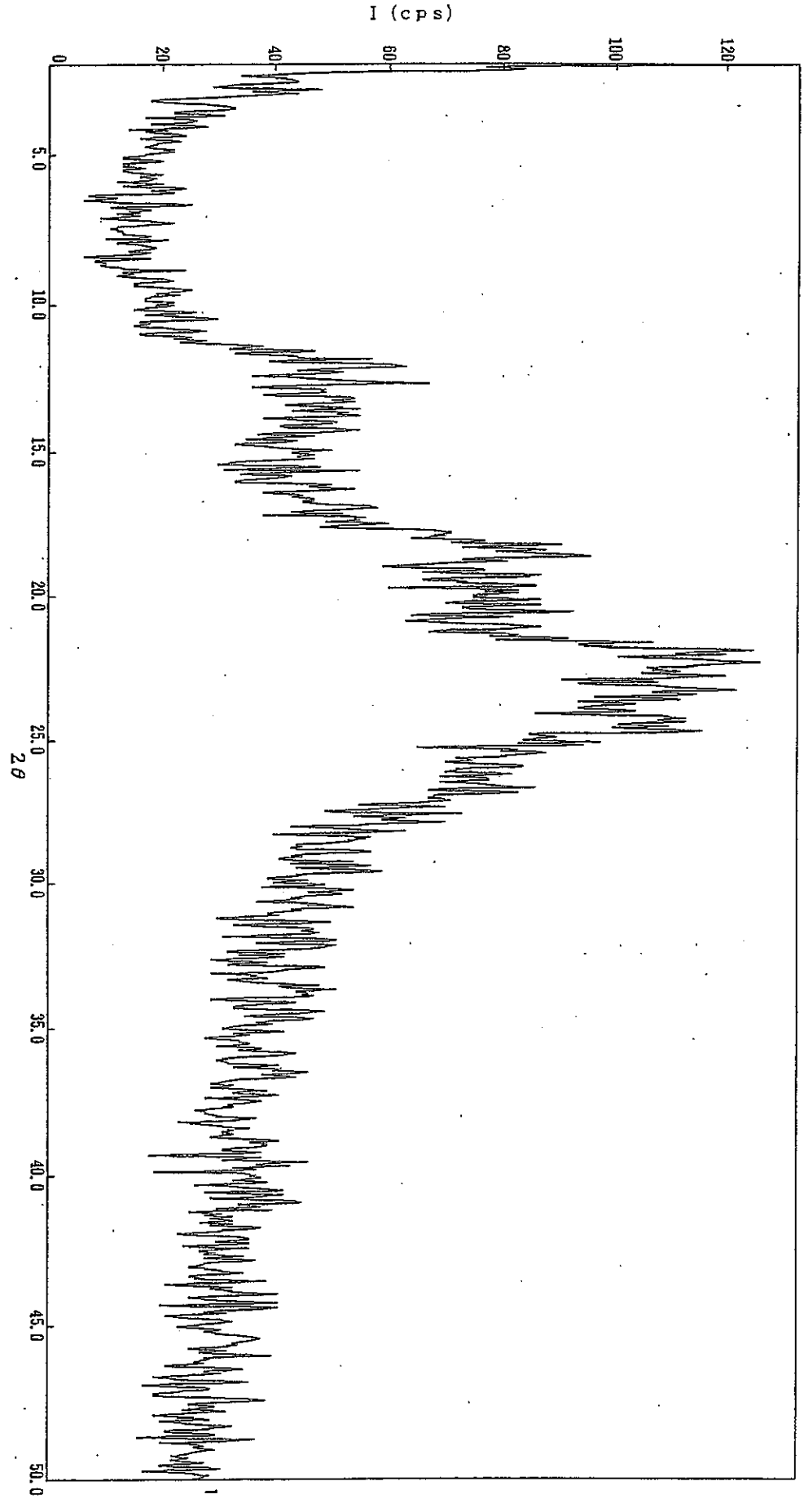

I (cps)
0
20
40
60
80
100
120
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
2θ

Fig. 10

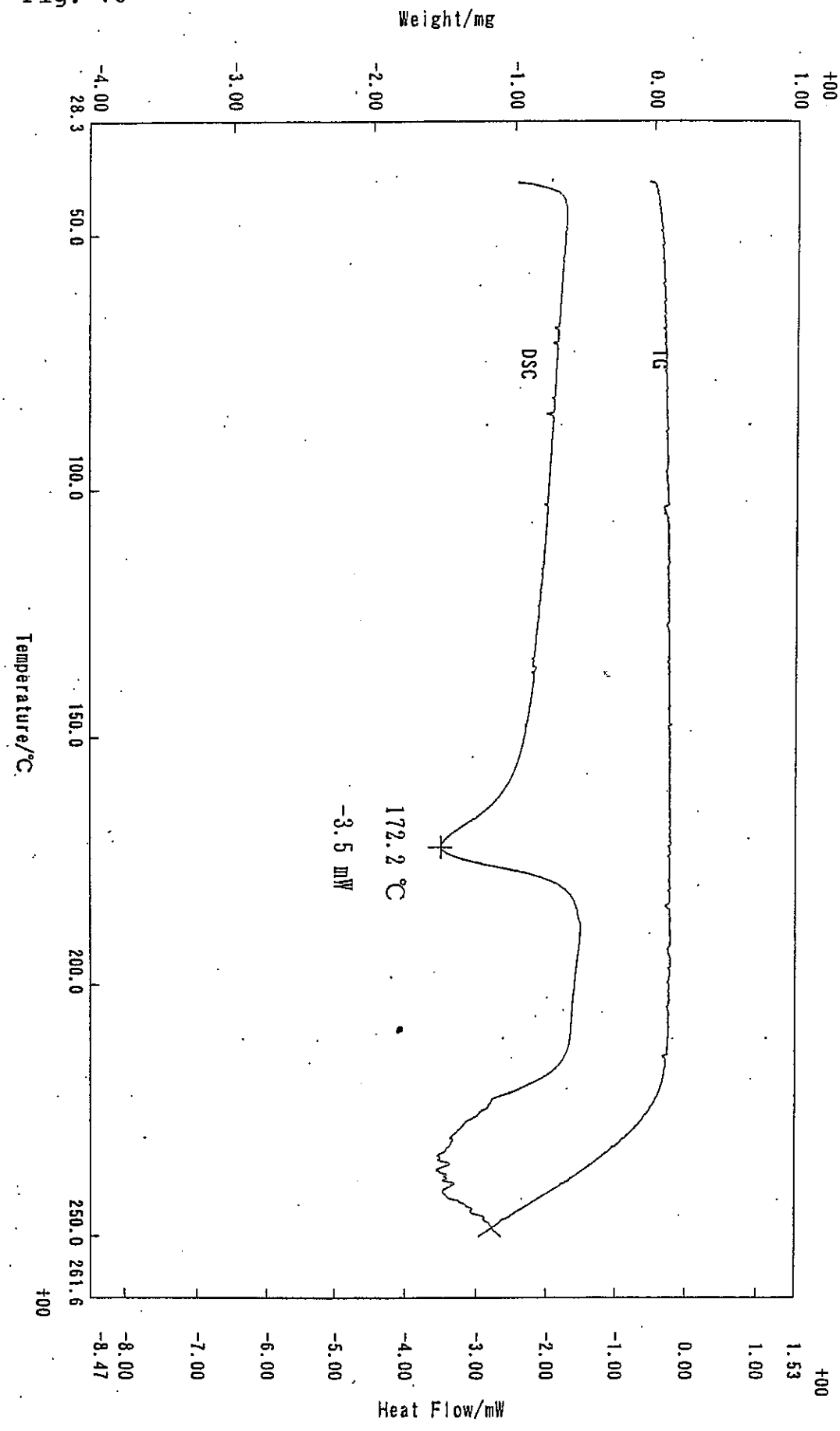

Weight/mg
+00
1.00
0.00
-1.00
-2.00
-3.00
-4.00
TG
DSC
172.2 ℃
-3.5 mW
Temperature/℃
28.3
50.0
100.0
150.0
200.0
250.0
261.6
+00
1.53
1.00
0.00
-1.00
-2.00
-3.00
-4.00
-5.00
-6.00
-7.00
-8.00
-8.47
Heat Flow/mW

Fig. 11

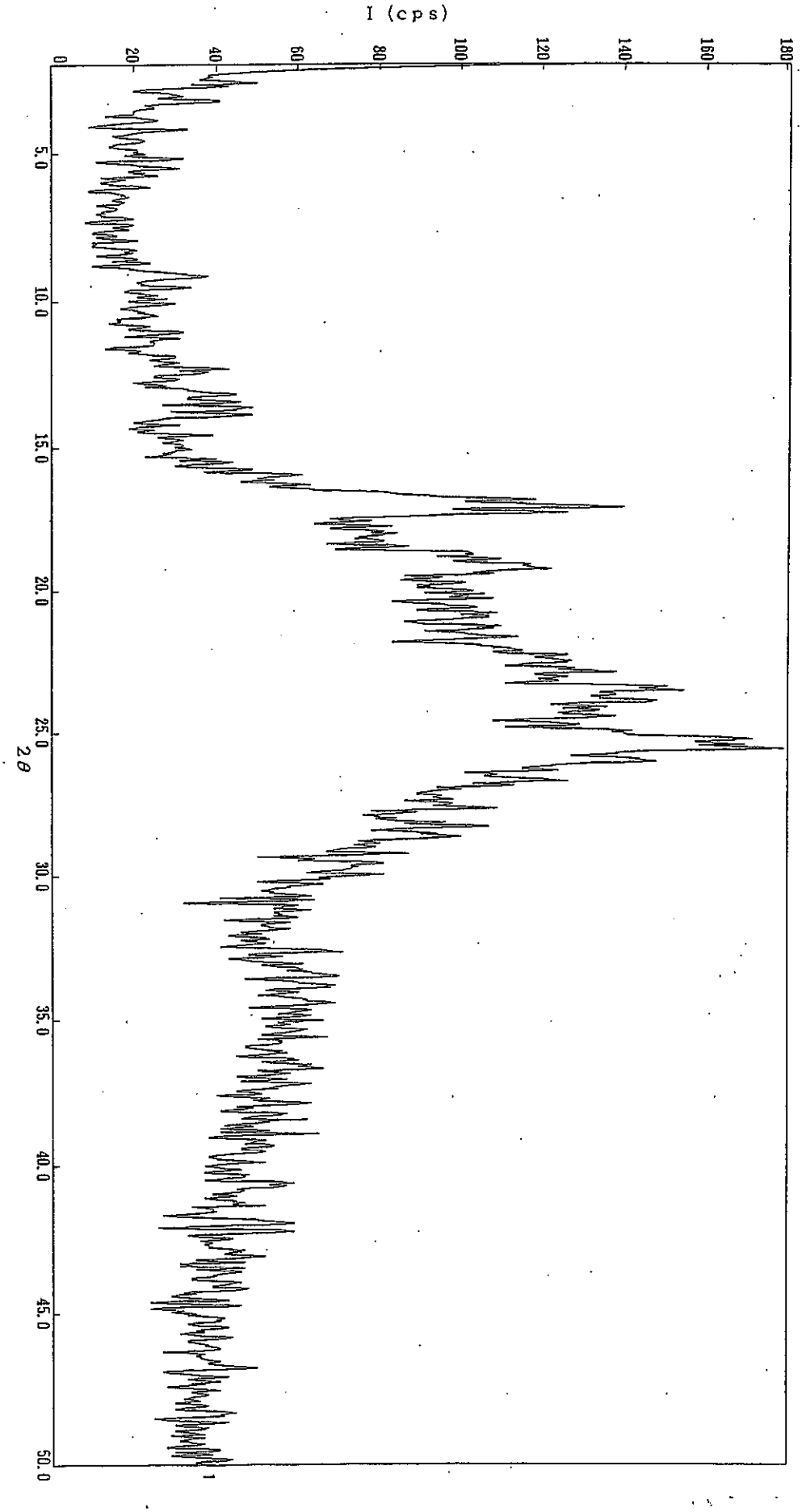

I (cps)
0
20
40
60
80
100
120
140
160
180
5.0
10.0
15.0
20.0
25.0
30.0
35.0
40.0
45.0
50.0
2θ

Fig. 12

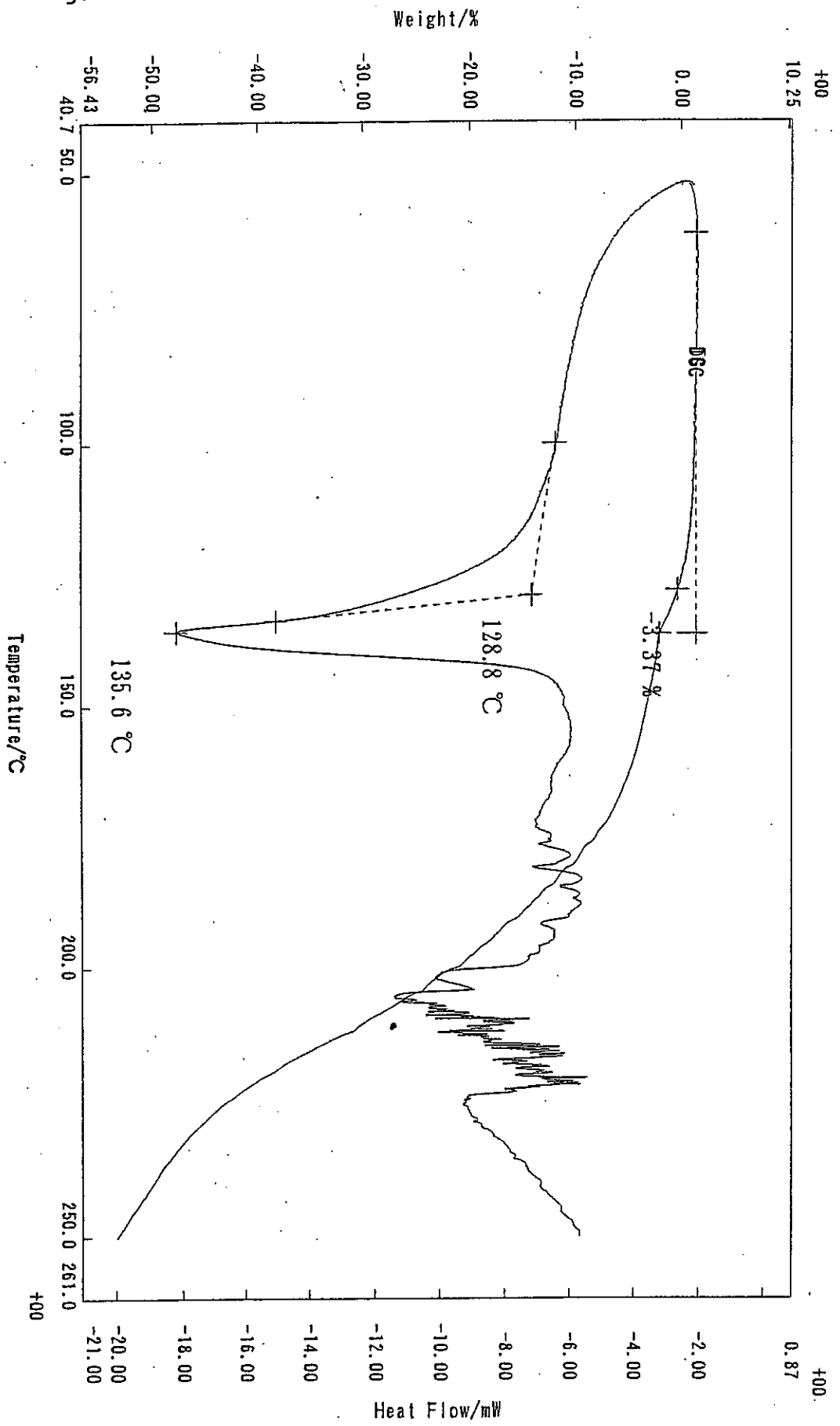

Weight/%
+00
10.25
0.00
-10.00
-20.00
-30.00
-40.00
-50.00
-56.43
40.7
50.0
100.0
150.0
200.0
250.0
261.0
DSC
-3.37 %
128.8 ℃
135.6 ℃
Temperature/℃
+00
-20.00
-21.00
-18.00
-16.00
-14.00
-12.00
-10.00
-8.00
-6.00
-4.00
-2.00
0.87
+00
Heat Flow/mW

Fig. 13

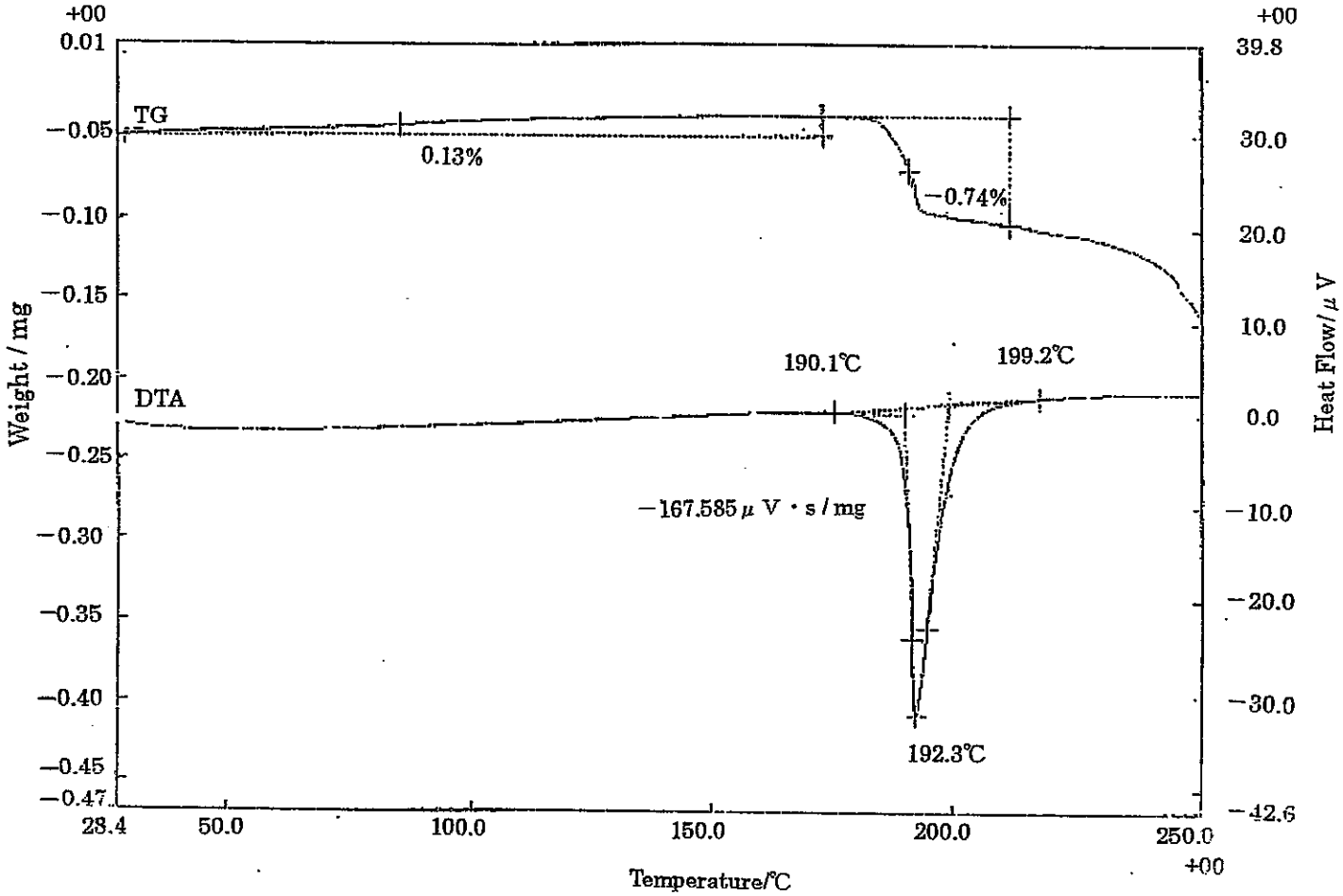

+00
0.01
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
−0.35
−0.40
−0.45
−0.47
Weight / mg
TG
0.13%
−0.74%
DTA
190.1℃
199.2℃
−167.585 μ V・s / mg
192.3℃
+00
39.8
30.0
20.0
10.0
0.0
−10.0
−20.0
−30.0
−42.6
Heat Flow/ μ V
28.4
50.0
100.0
150.0
200.0
250.0
+00
Temperature/℃

Fig. 14

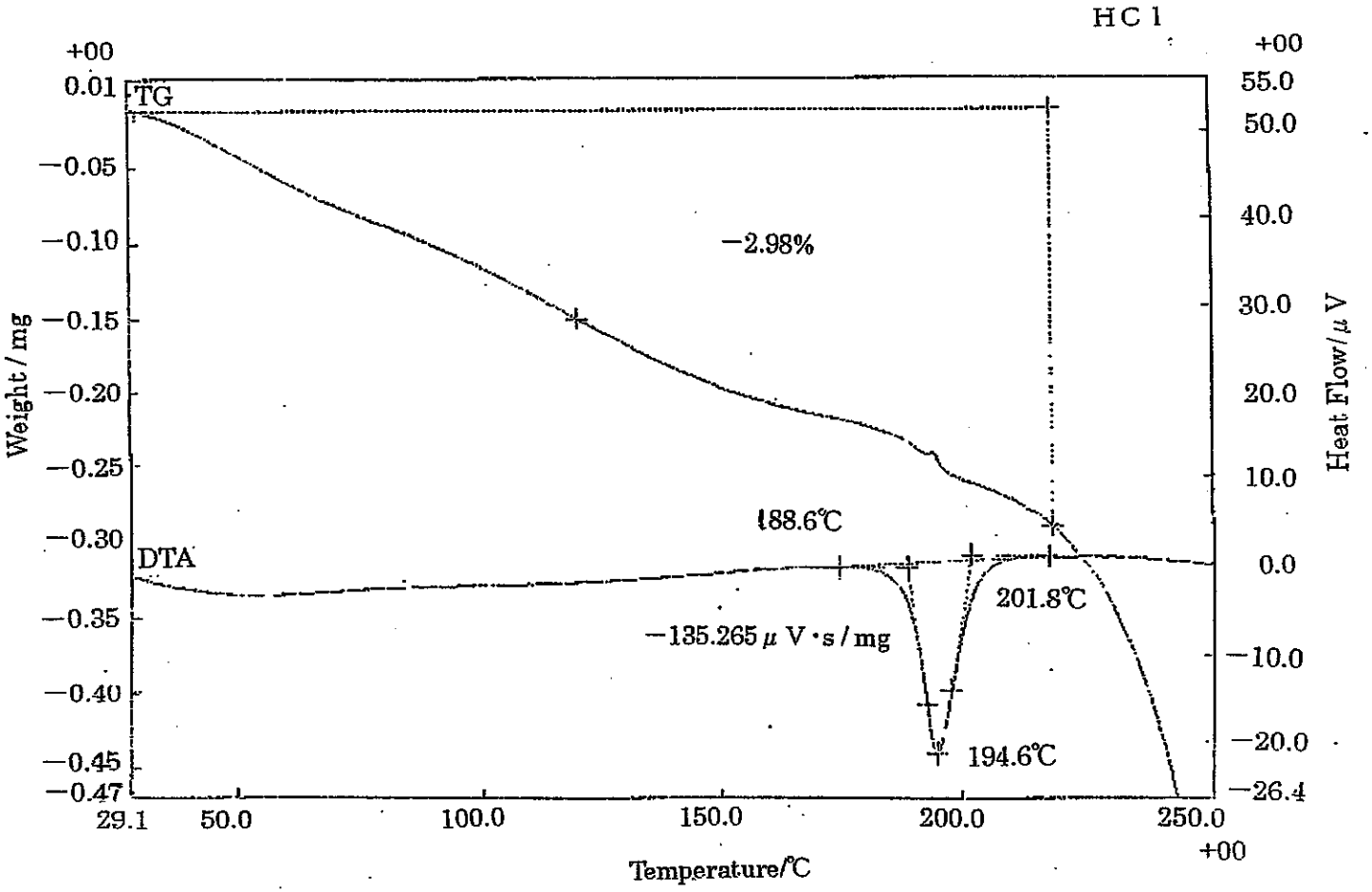

HC l
+00
0.01
TG
−0.05
−0.10
−0.15
−0.20
−0.25
−0.30
DTA
−0.35
−0.40
−0.45
−0.47
Weight / mg
−2.98%
188.6℃
−135.265 μ V·s / mg
201.8℃
194.6℃
+00
55.0
50.0
40.0
30.0
20.0
10.0
0.0
−10.0
−20.0
−26.4
Heat Flow/μ V
29.1
50.0
100.0
150.0
200.0
250.0
+00
Temperature/℃

Fig. 15

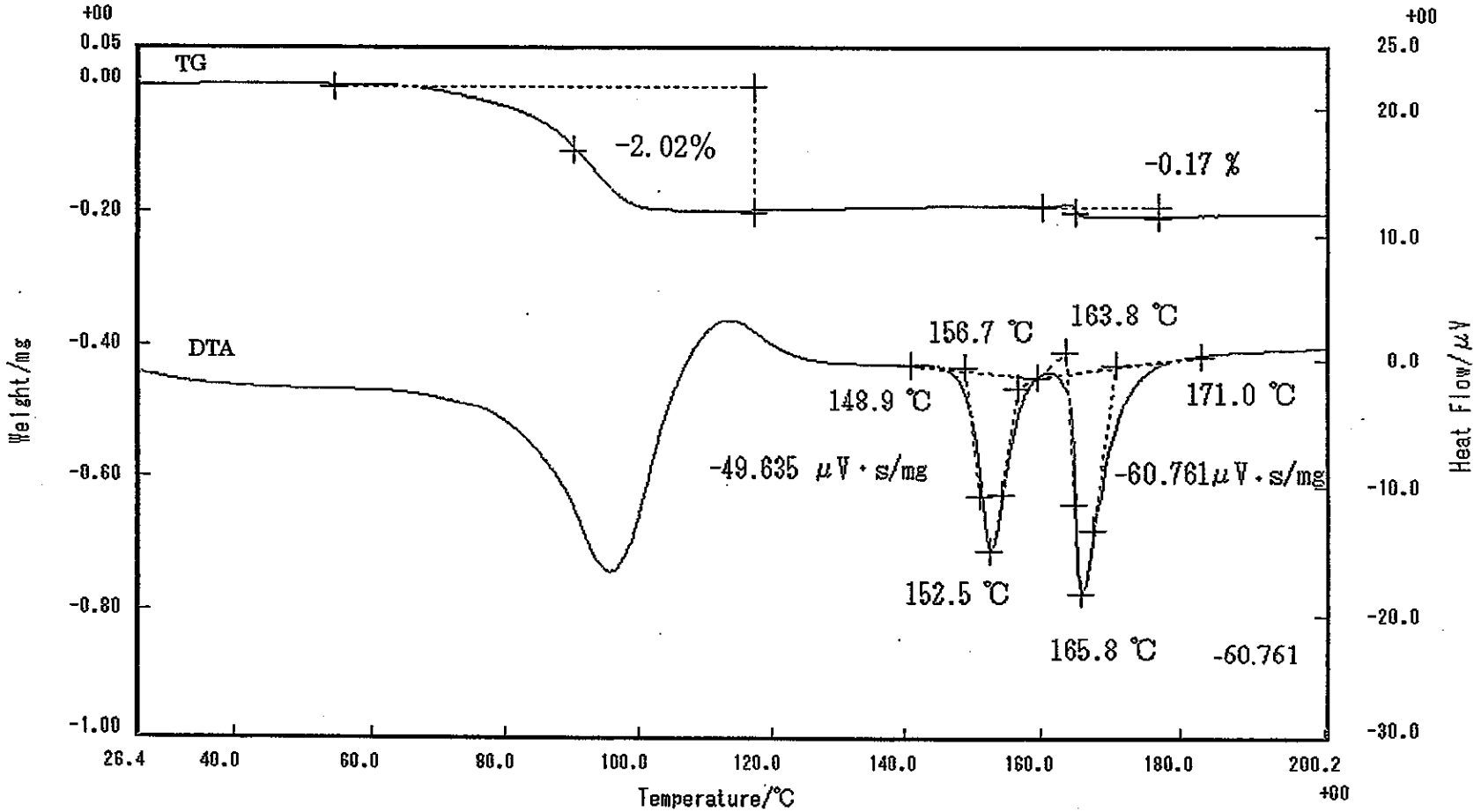

+00
0.05
0.00
-0.20
-0.40
-0.60
-0.80
-1.00
Weight/mg
TG
-2.02%
-0.17 %
DTA
156.7 ℃
163.8 ℃
148.9 ℃
171.0 ℃
-49.635 μV・s/mg
-60.761μV・s/mg
152.5 ℃
165.8 ℃
-60.761
+00
25.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
Heat Flow/μV
26.4
40.0
60.0
80.0
100.0
120.0
140.0
160.0
180.0
200.2
+00
Temperature/℃

Fig. 16

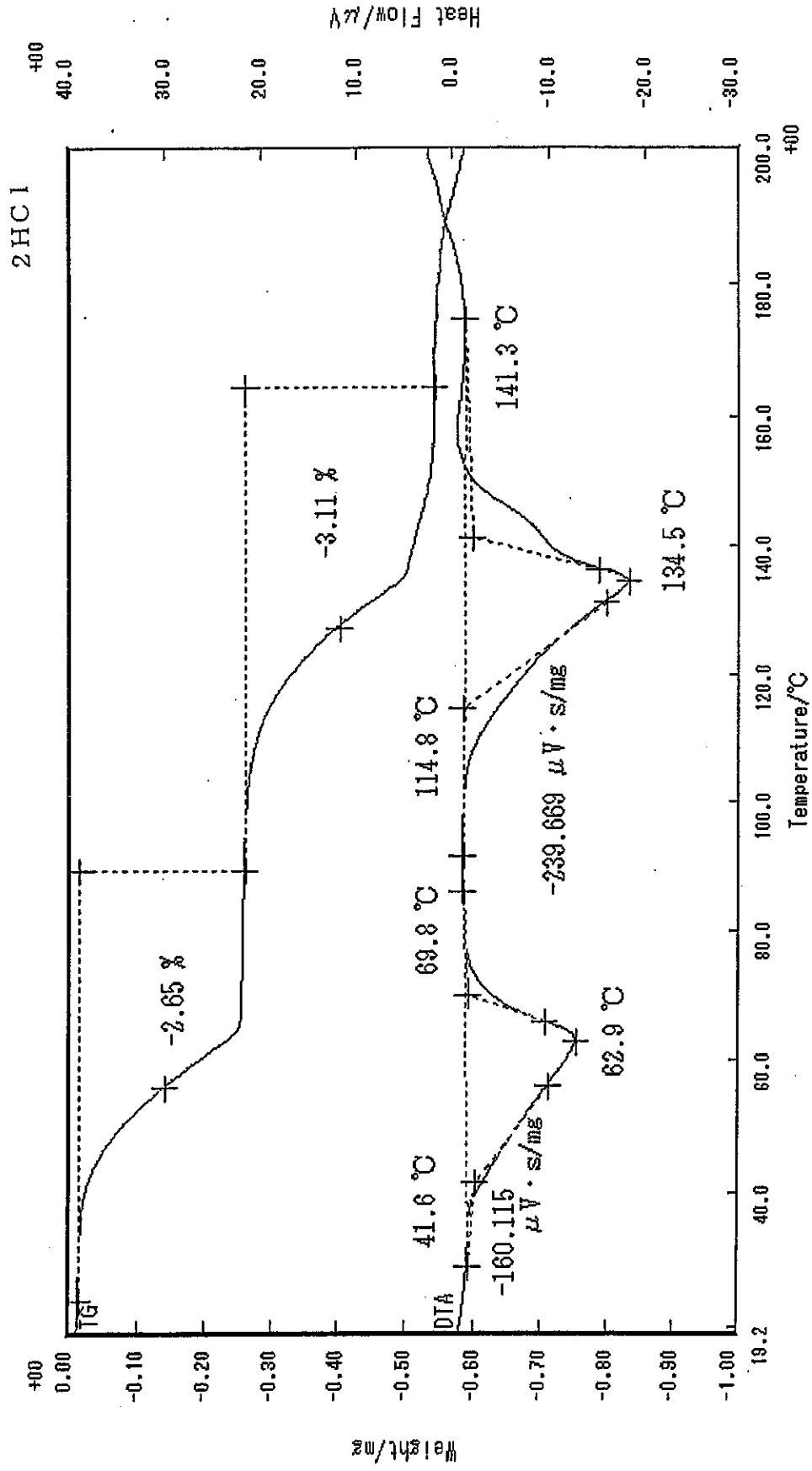

2HCl
TG
DTA
-2.65 %
-3.11 %
69.8 ℃
114.8 ℃
141.3 ℃
134.5 ℃
62.9 ℃
41.6 ℃
-239.669 μV·s/mg
-160.115 μV·s/mg
Weight/mg
Heat Flow/μV
Temperature/℃

Fig. 17

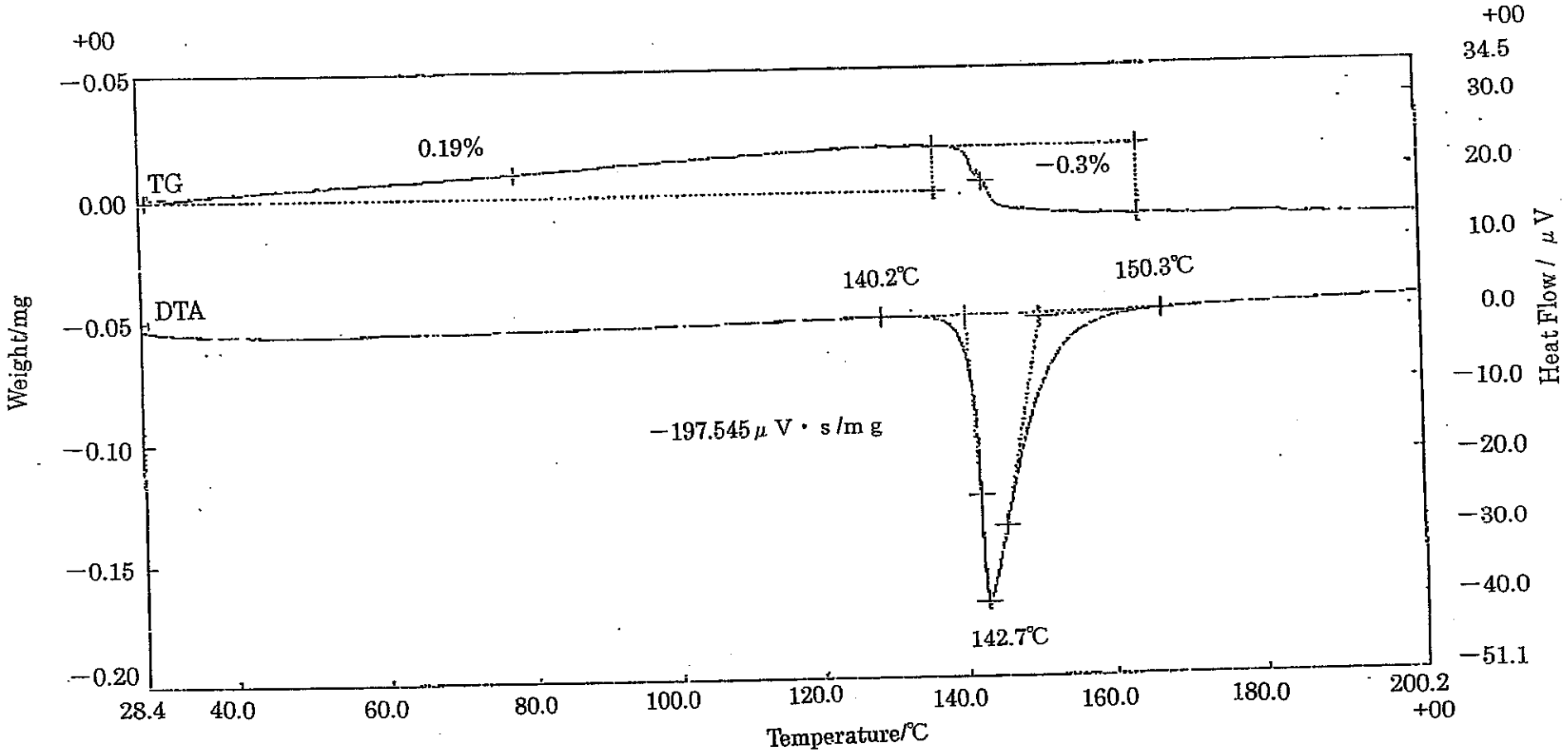

+00
−0.05
0.00
−0.05
−0.10
−0.15
−0.20
Weight/mg
TG
DTA
0.19%
−0.3%
140.2℃
150.3℃
−197.545 μ V・s/m g
142.7℃
28.4
40.0
60.0
80.0
100.0
120.0
140.0
160.0
180.0
200.2
+00
Temperature/℃
+00
34.5
30.0
20.0
10.0
0.0
−10.0
−20.0
−30.0
−40.0
−51.1
Heat Flow / μ V

Fig. 18

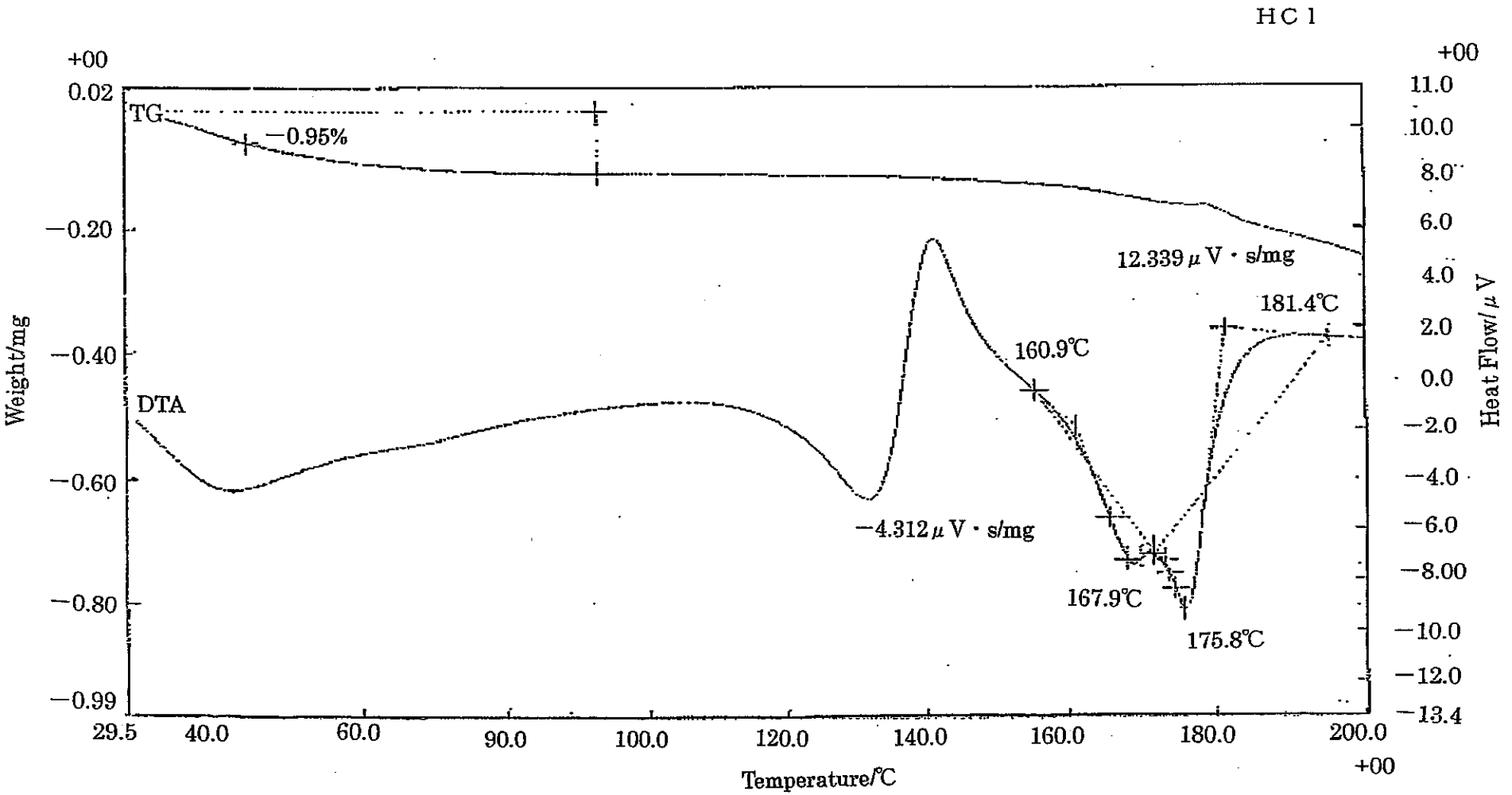

HCl
+00
0.02
−0.20
−0.40
−0.60
−0.80
−0.99
Weight/mg
TG
−0.95%
DTA
12.339 μV・s/mg
181.4℃
160.9℃
−4.312 μV・s/mg
167.9℃
175.8℃
+00
11.0
10.0
8.0
6.0
4.0
2.0
0.0
−2.0
−4.0
−6.0
−8.00
−10.0
−12.0
−13.4
Heat Flow/μV
29.5
40.0
60.0
90.0
100.0
120.0
140.0
160.0
180.0
200.0
+00
Temperature/℃

Fig. 19

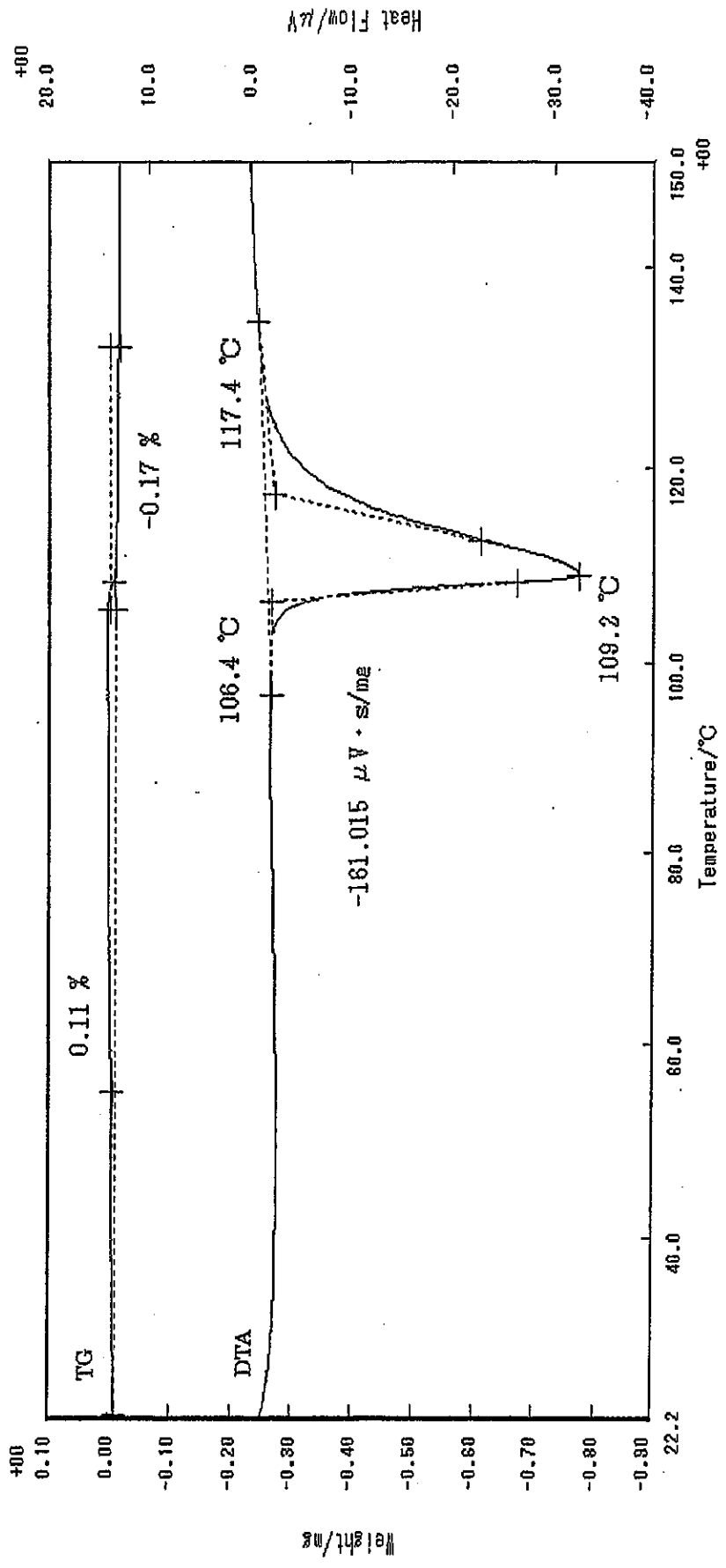

Heat Flow/μV
+00
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
+00
150.0
140.0
120.0
100.0
80.0
60.0
40.0
22.2
Temperature/℃
Weight/mg
+00
0.10
0.00
-0.10
-0.20
-0.30
-0.40
-0.50
-0.60
-0.70
-0.80
-0.90
TG
DTA
0.11 %
-0.17 %
106.4 ℃
117.4 ℃
109.2 ℃
-161.015 μV・s/mg

Fig. 20

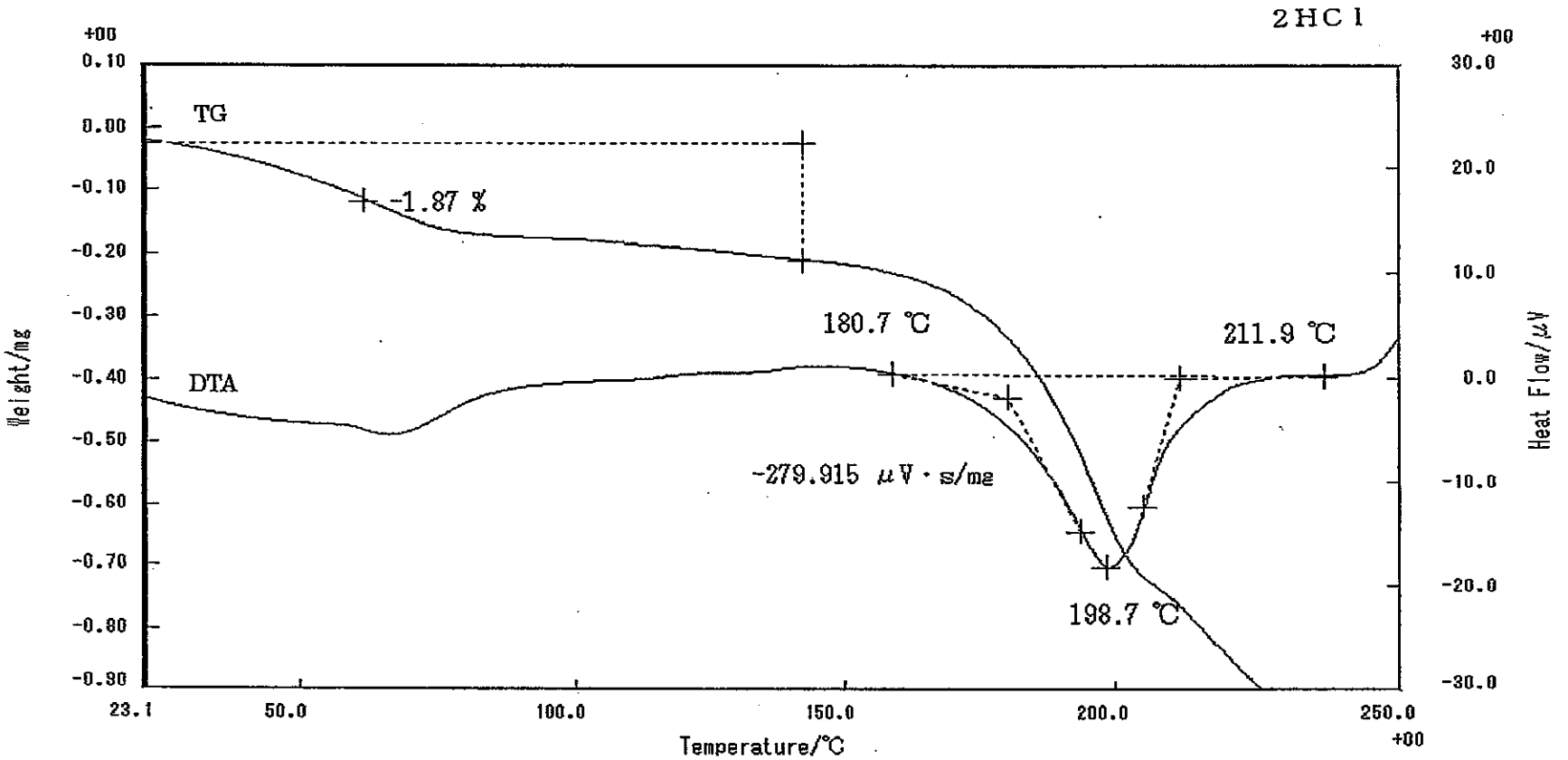

2HCl
TG
-1.87 %
180.7 ℃
211.9 ℃
DTA
-279.915 μV・s/mg
198.7 ℃
Weight/mg
Heat Flow/μW
Temperature/℃
+00
0.10
0.00
-0.10
-0.20
-0.30
-0.40
-0.50
-0.60
-0.70
-0.80
-0.90
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
23.1
50.0
100.0
150.0
200.0
250.0

Fig. 21

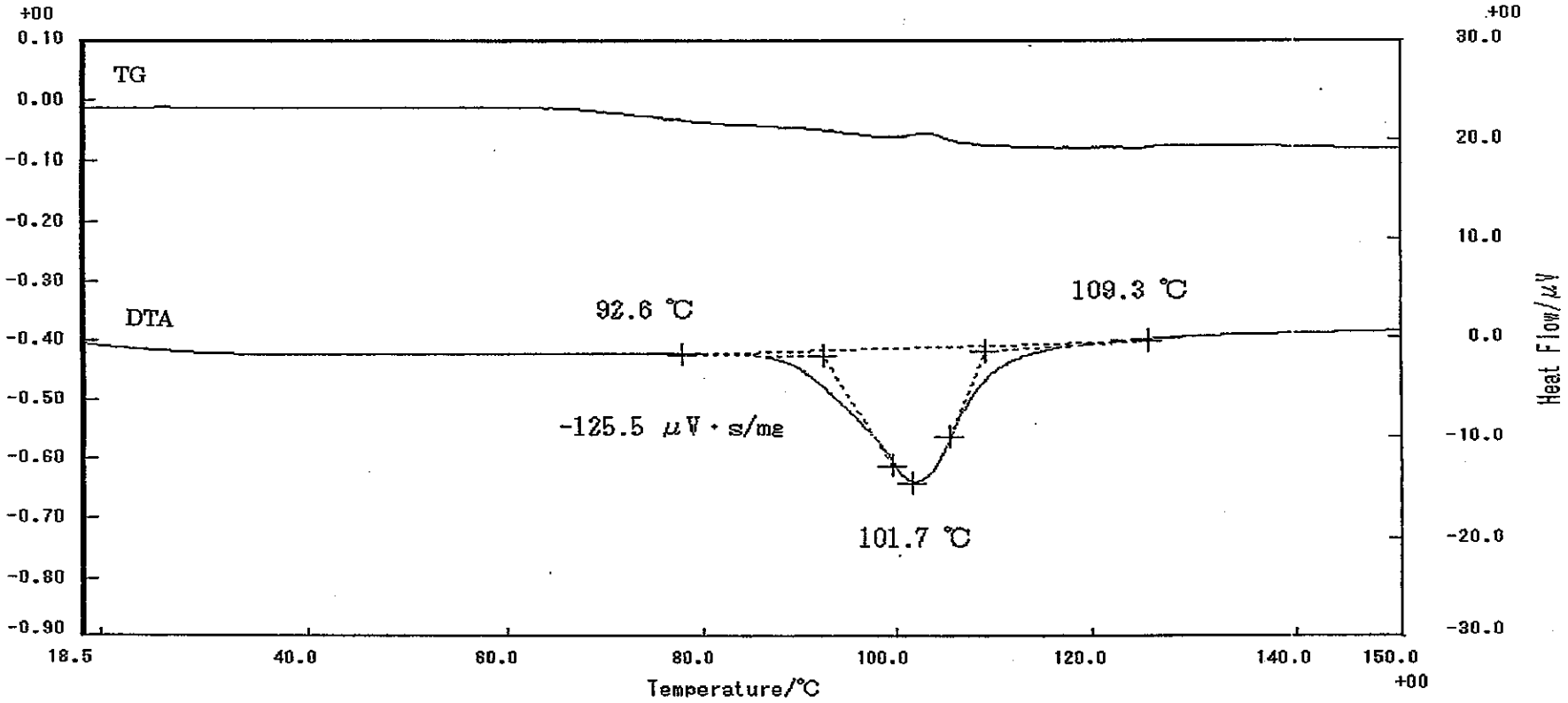

+00
0.10
0.00
-0.10
-0.20
-0.30
-0.40
-0.50
-0.60
-0.70
-0.80
-0.90
Weight/mg
TG
DTA
92.6 ℃
109.3 ℃
-125.5 μV・s/mg
101.7 ℃
18.5
40.0
60.0
80.0
100.0
120.0
140.0
150.0
+00
Temperature/℃
+00
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
Heat Flow/μV

Fig. 22

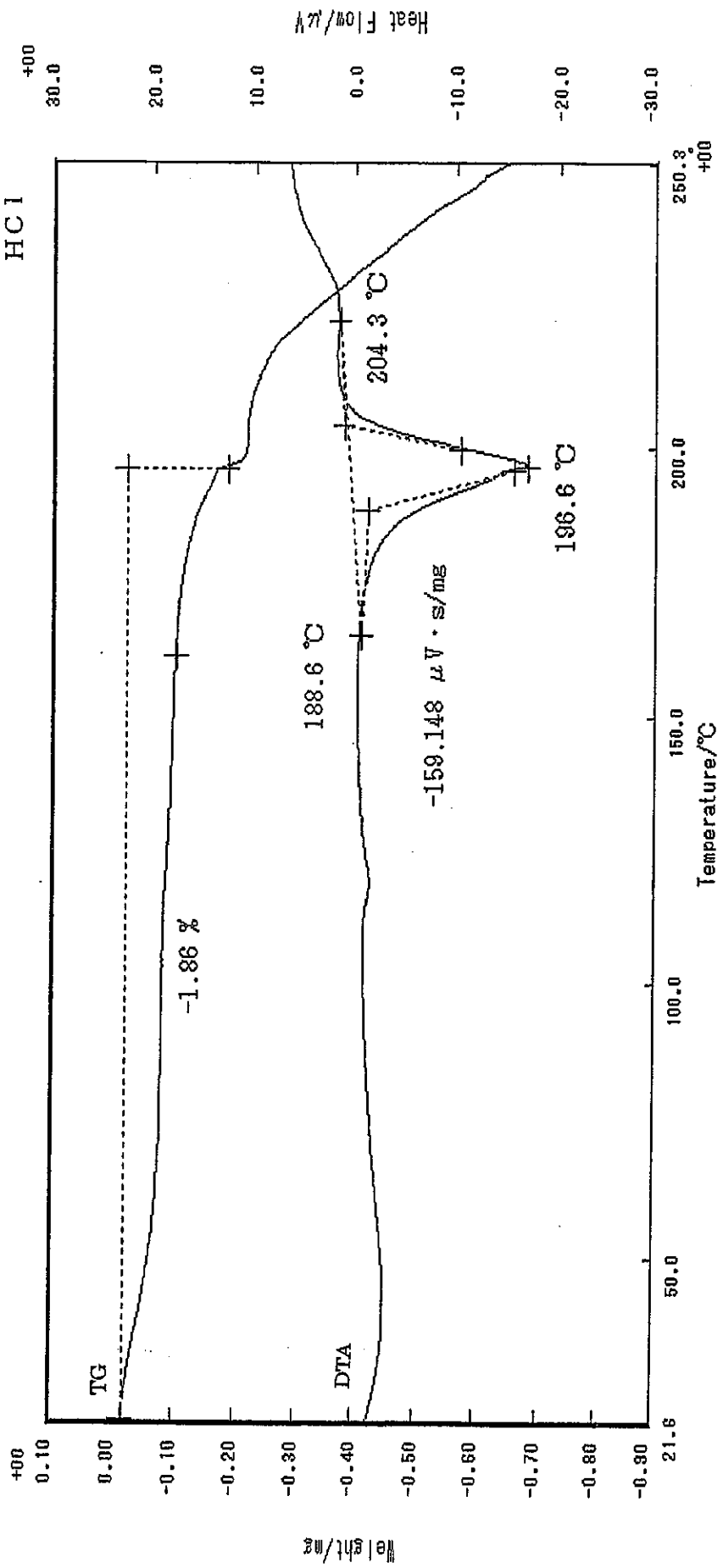

HCl
TG
DTA
-1.86 %
188.6 ℃
204.3 ℃
196.6 ℃
-159.148 μV・s/mg
Weight/mg
Heat Flow/μV
Temperature/℃
+00
0.10
0.00
-0.10
-0.20
-0.30
-0.40
-0.50
-0.60
-0.70
-0.80
-0.90
21.6
50.0
100.0
150.0
200.0
250.3
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0

Fig. 23

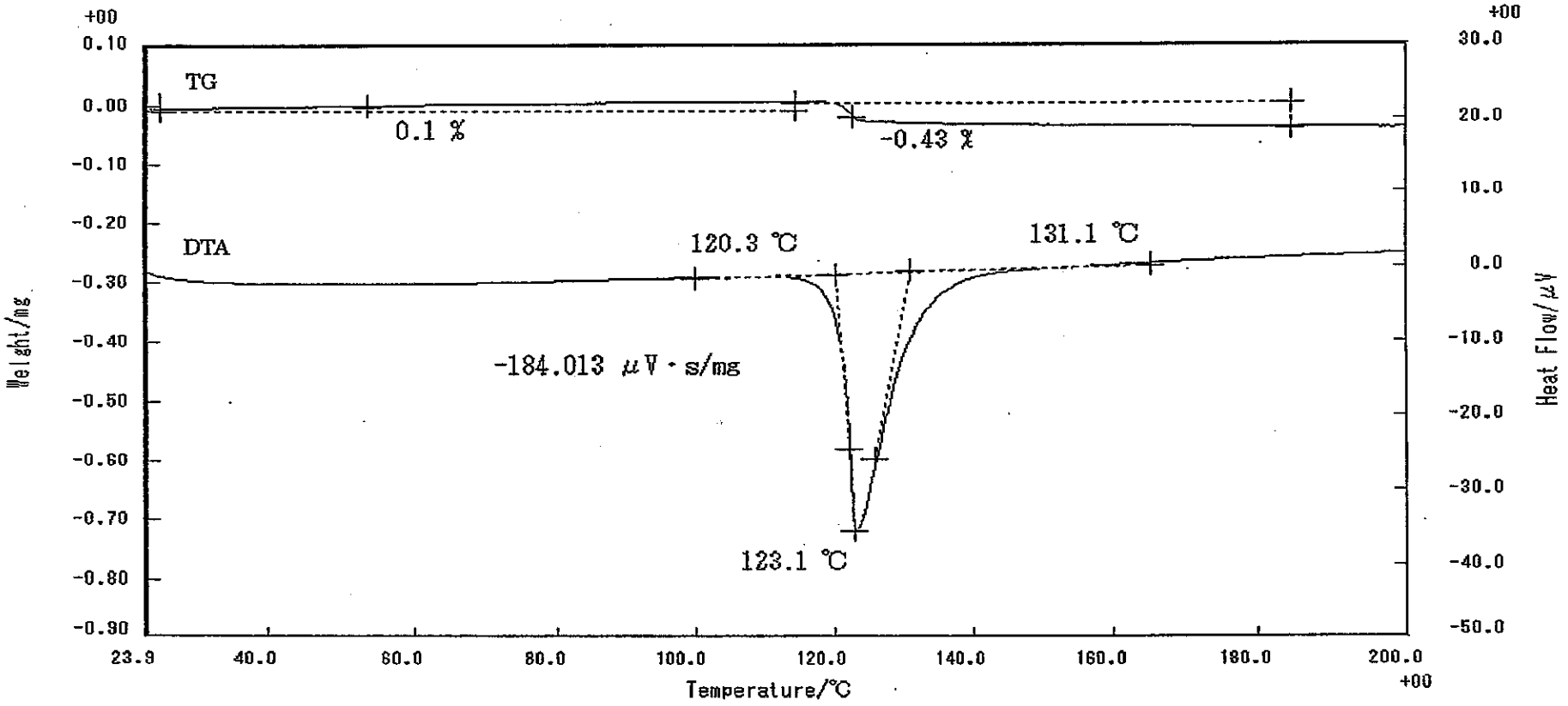
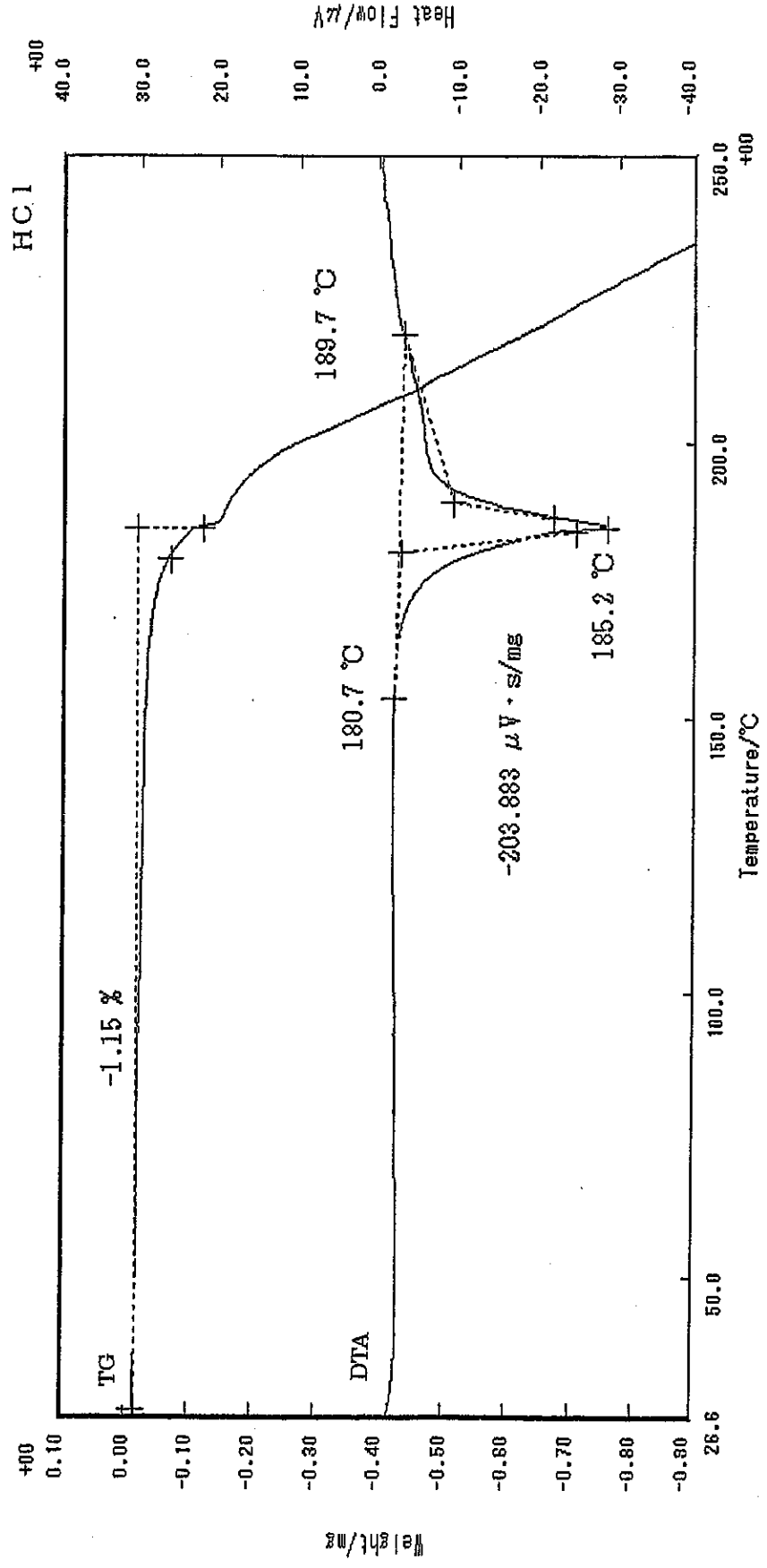

+00
0.10
0.00
-0.10
-0.20
-0.30
-0.40
-0.50
-0.60
-0.70
-0.80
-0.90
Weight/mg
TG
0.1 %
-0.43 %
DTA
120.3 ℃
131.1 ℃
-184.013 μV・s/mg
123.1 ℃
23.9
40.0
60.0
80.0
100.0
120.0
140.0
160.0
180.0
200.0
+00
Temperature/℃
+00
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0
-50.0
Heat Flow/μV

Fig. 24


HC1
TG
DTA
-1.15 %
189.7 ℃
180.7 ℃
185.2 ℃
-203.883 μV・s/mg
Weight/mg
Heat Flow/μV
Temperature/℃
+00
0.10
0.00
-0.10
-0.20
-0.30
-0.40
-0.50
-0.60
-0.70
-0.80
-0.90
26.6
50.0
100.0
150.0
200.0
250.0
40.0
30.0
20.0
10.0
0.0
-10.0
-20.0
-30.0
-40.0