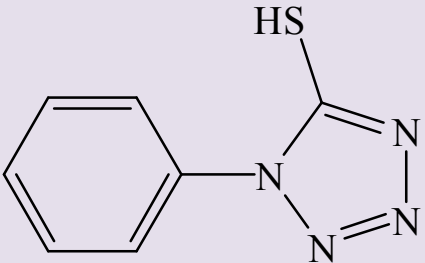
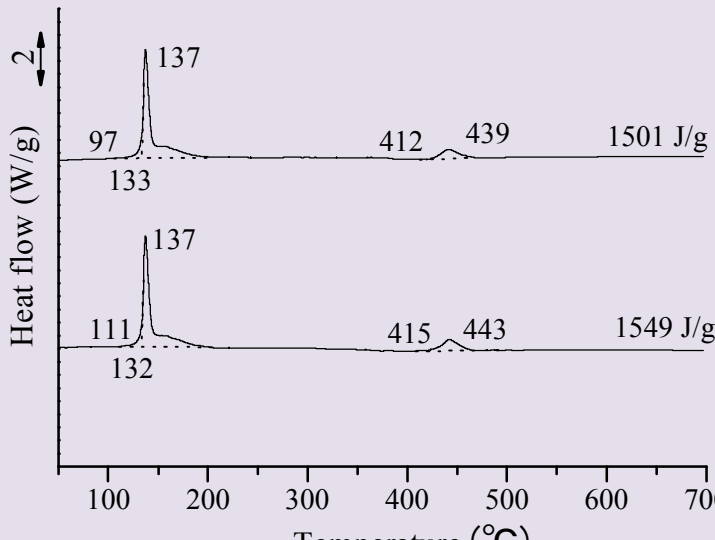
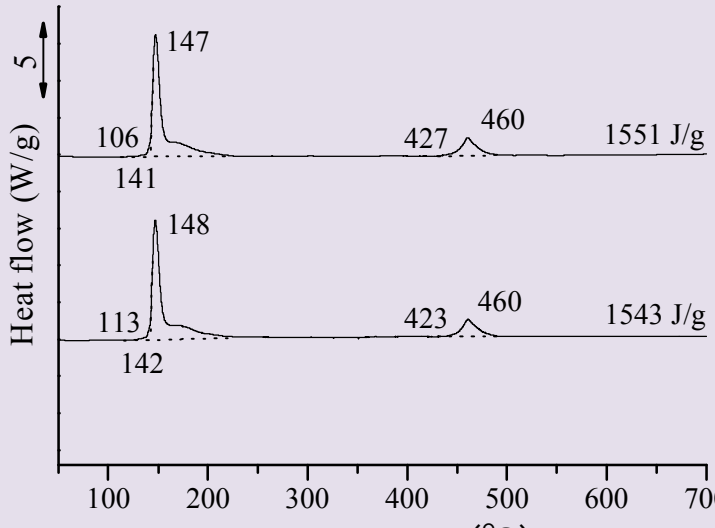
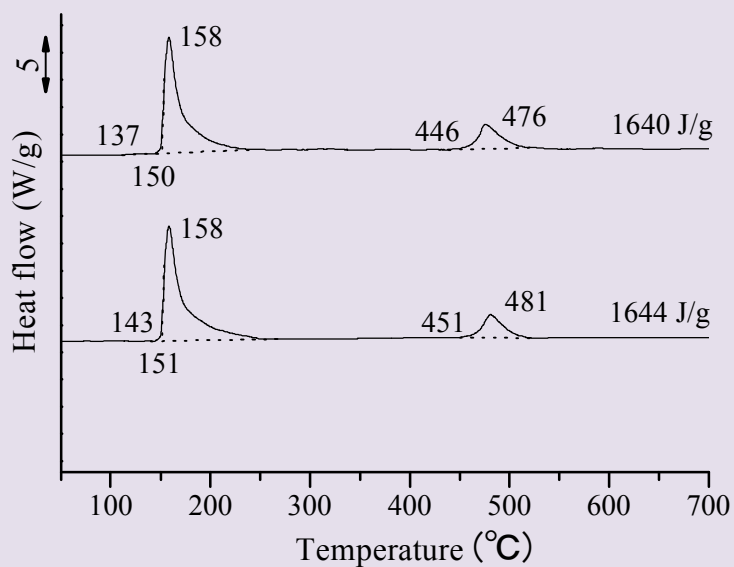


<p>1-Phenyl-5-mercapto tetrazole</p>	<p>$C_7H_6N_4S$ PMT</p>
	<p>DSC device: SII DSC 7020 SII Nano Technology Inc. dT/dt: 2, 5, 10, 20 K/min Atmosphere: Air Vesel: pressure vessel (SUS) SII Nano Technology Inc. Sample: TGI (> 98.0%)</p>
<p>a) 2 K/min TGI: 東京化成工業株式会社</p>	
	<p><Average> T_a: 104 °C T_o: 133 °C T_{top}: 137 °C Q_{DSC}: 1525 J/g</p>
<p>b) 5 K/min</p>	
	<p><Average> T_a: 110 °C T_o: 142 °C T_{top}: 148 °C Q_{DSC}: 1547 J/g</p>

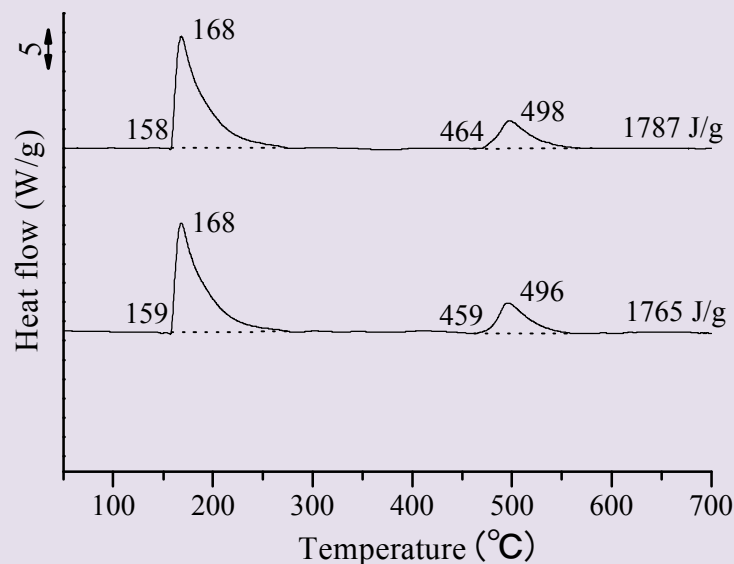
c) 10 K/min



<Average>

T_a : 140 °C
 T_o : 151 °C
 T_{top} : 158 °C
 Q_{DSC} : 1642 J/g

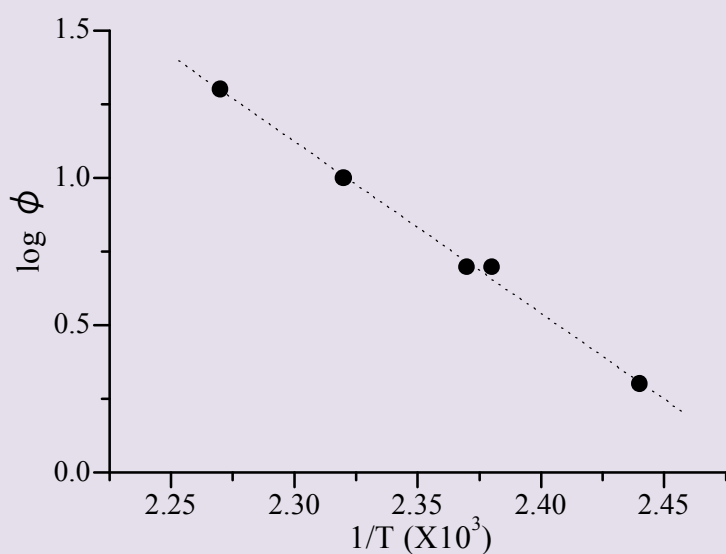
d) 20 K/min



<Average>

T_a : 159 °C
 T_o : 159 °C
 T_{top} : 168 °C
 Q_{DSC} : 1776 J/g

ASTM PLOT



ΔE : 109 kJ/mol
 A : 1.72×10^{19}
 r : -0.99899

Heat rate ϕ (K/min)	T_{peak} (°C)	T_m (K)	$1/T_m \cdot 10^3$	$\log \phi$
2	137	410	2.44	0.301
	137	410	2.44	0.301
5	147	420	2.38	0.699
	148	421	2.37	0.699
10	158	431	2.32	1.00
	158	431	2.32	1.00
20	168	441	2.27	1.30
	168	441	2.27	1.30