Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.
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Supporting Information

Thermally Tunable Circular Dichroism and Circularly Polarized Luminescence of Tetraphenylethene with Two Cholesterol Pendants

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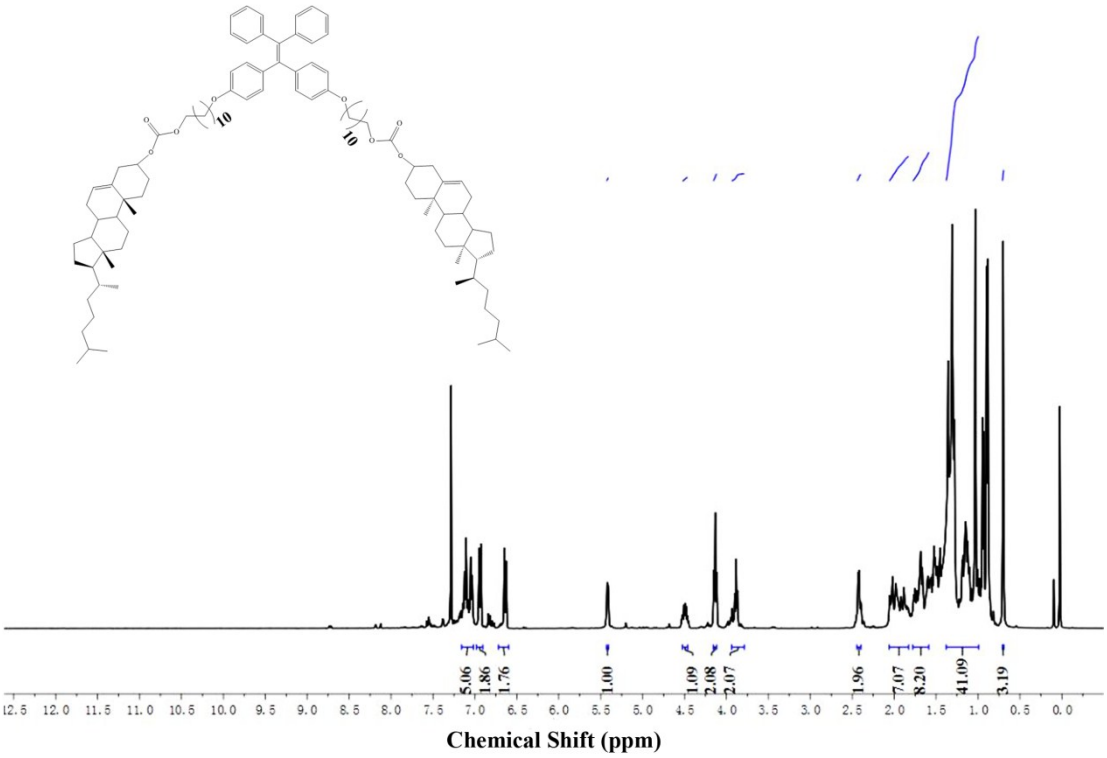

Figure S1. ^{1}H NMR spectra of **2CTPE**.

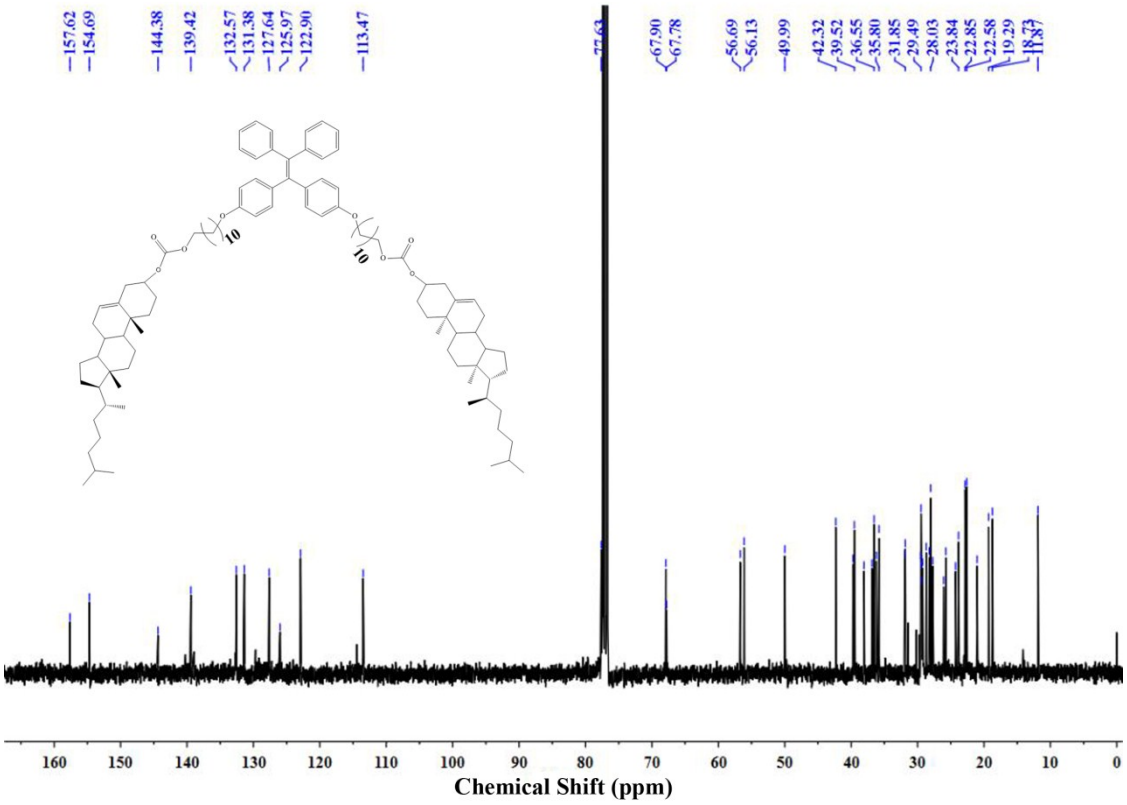

Figure S2. ^{13}C NMR spectra of **2CTPE**.

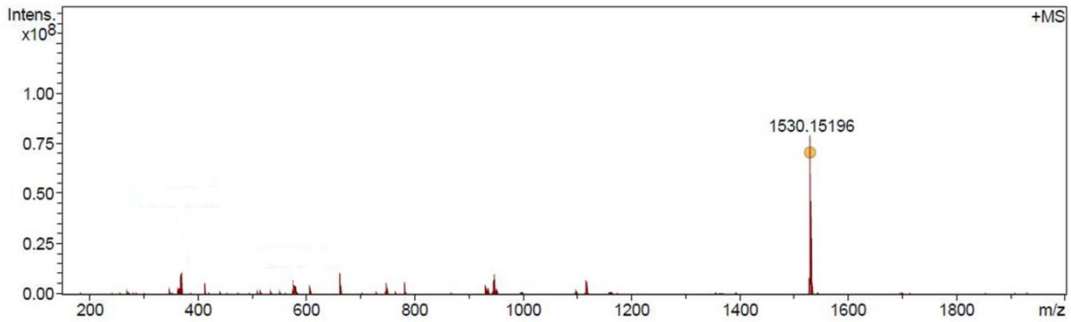

Figure S3. MS spectrum of **2CTPE**.

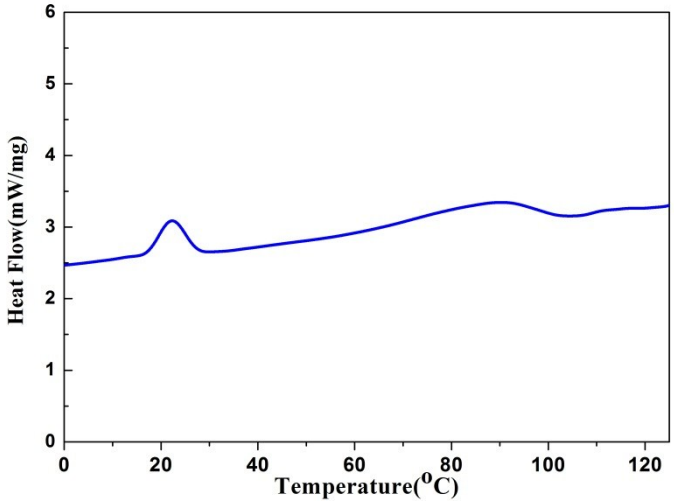

Figure S4. DSC spectrum of **2CTPE** (first heating curve).

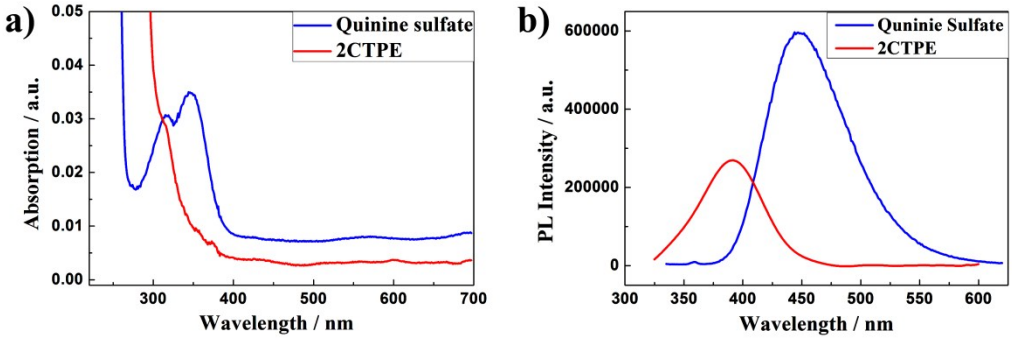

Figure S5. UV (a) and FL (b) spectra of 2CTPE solution in THF and standard substance quinine sulfate solution. The quantum yield of 2CTPE in solution was evaluated as 14%.

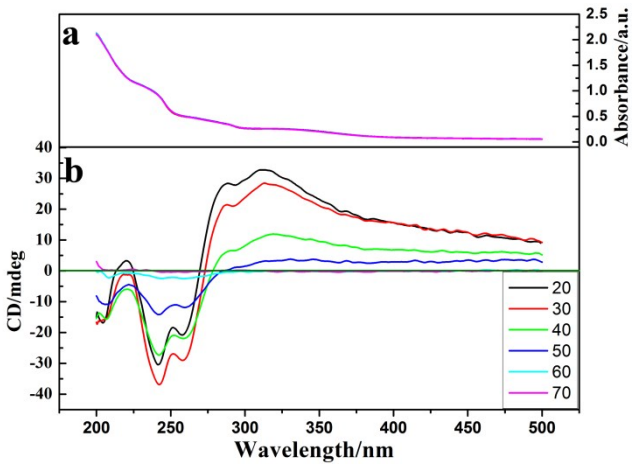

Figure S6. In-situ UV/Vis spectra a) and circular dichroism spectra b) of **2CTPE** cast film measured at different temperatures.

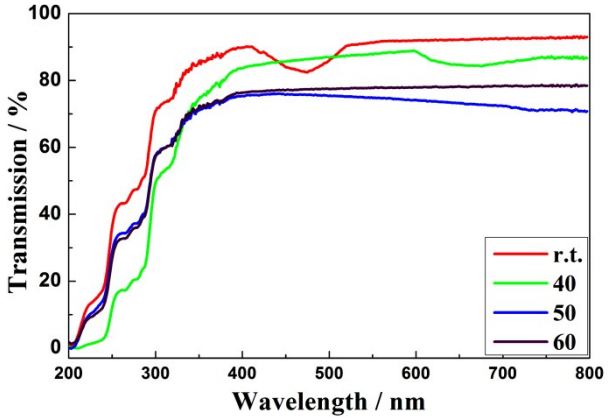

Figure S7. UV transmission spectra of 2CTPE films measured after being treated under different temperatures.

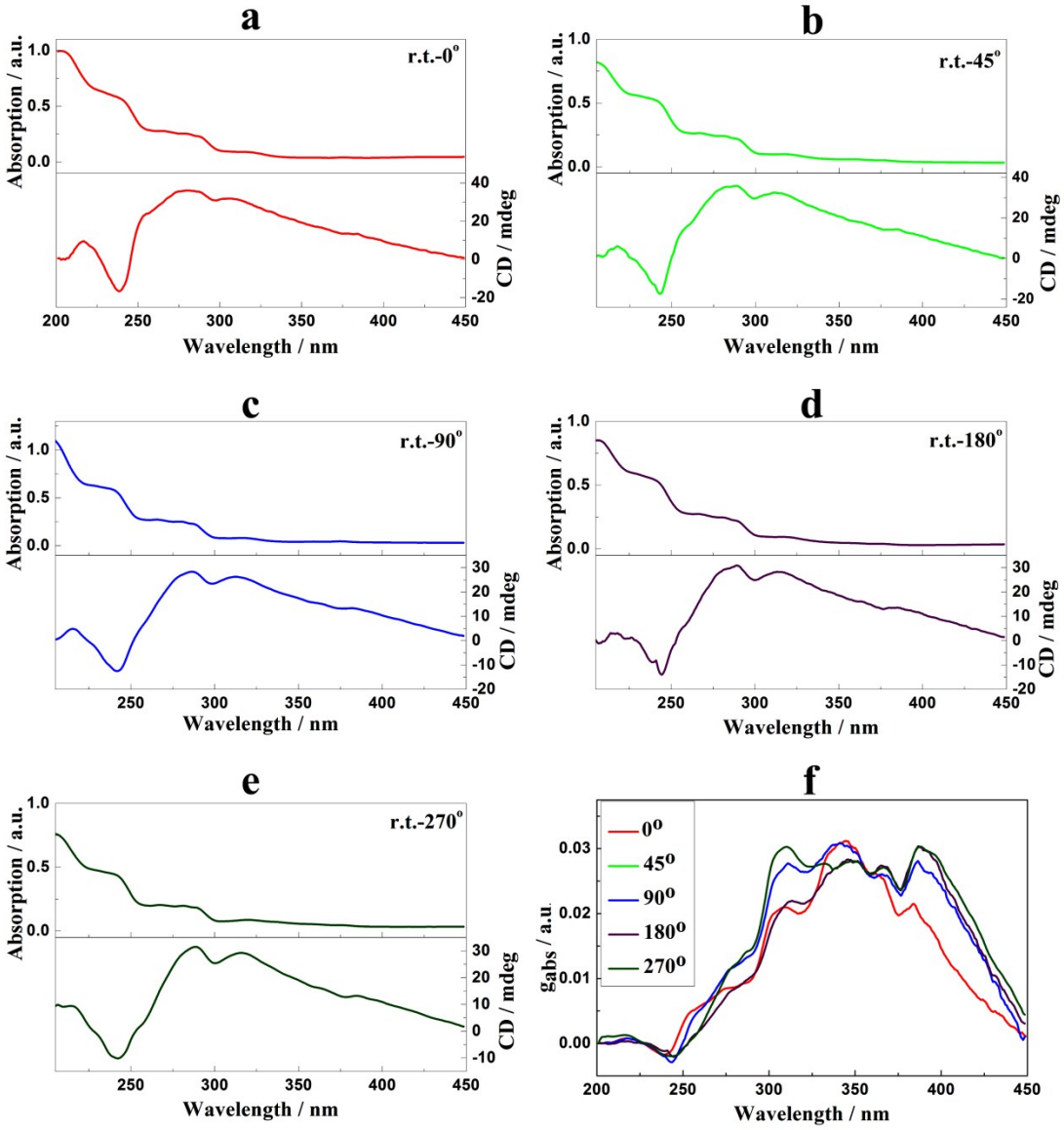

Figure S8. UV, CD and g_{abs} spectra of 2CTPE film at room temperature measured under different rotation angle: a, 0°; b, 45°; c, 90°; d, 180°; e, 270°.

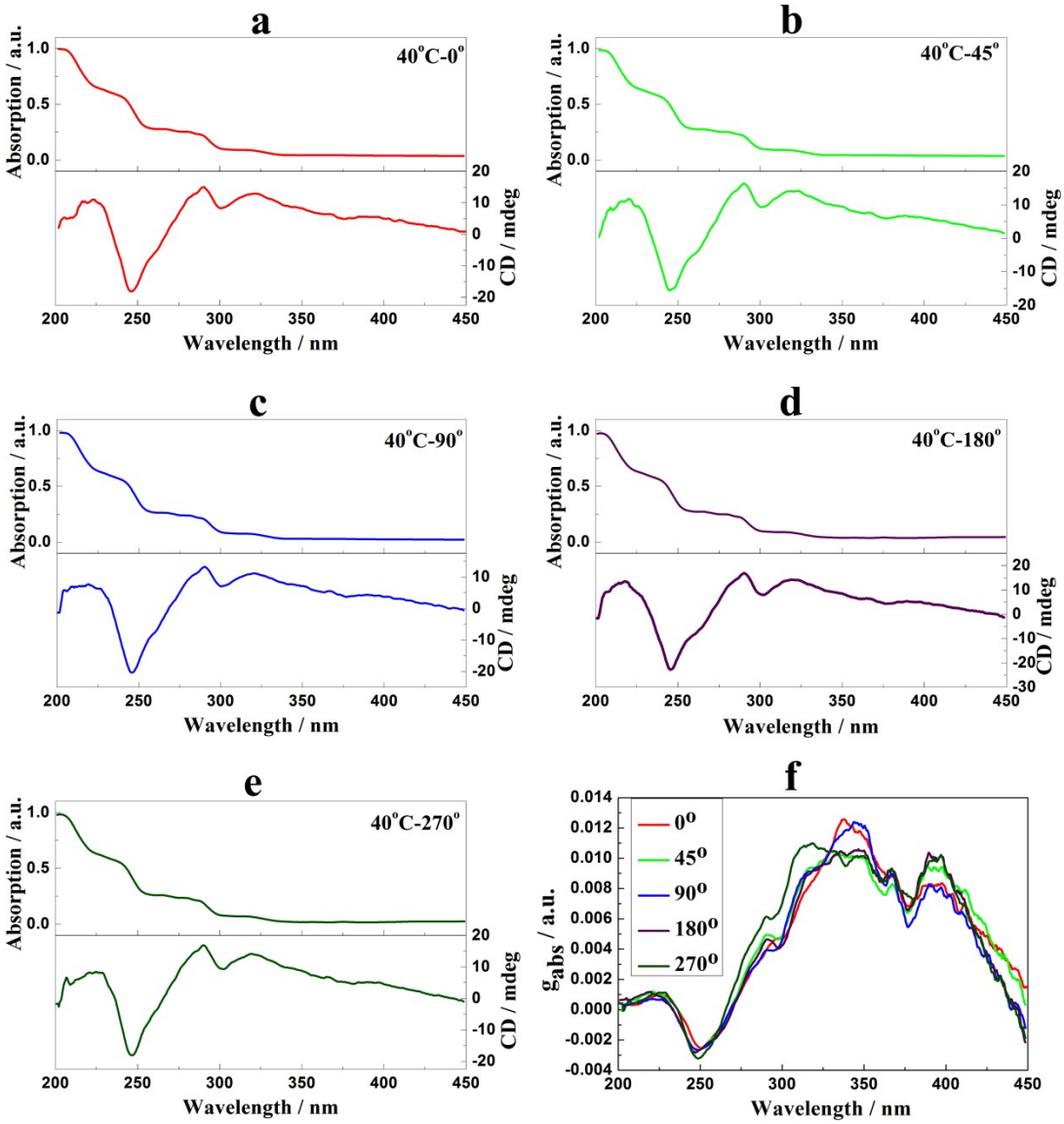

Figure S9. UV, CD and g_{abs} spectra of 2CTPE film treated under 40°C, measured under different rotation angle: a, 0°; b, 45°; c, 90°; d, 180°; e, 270°.

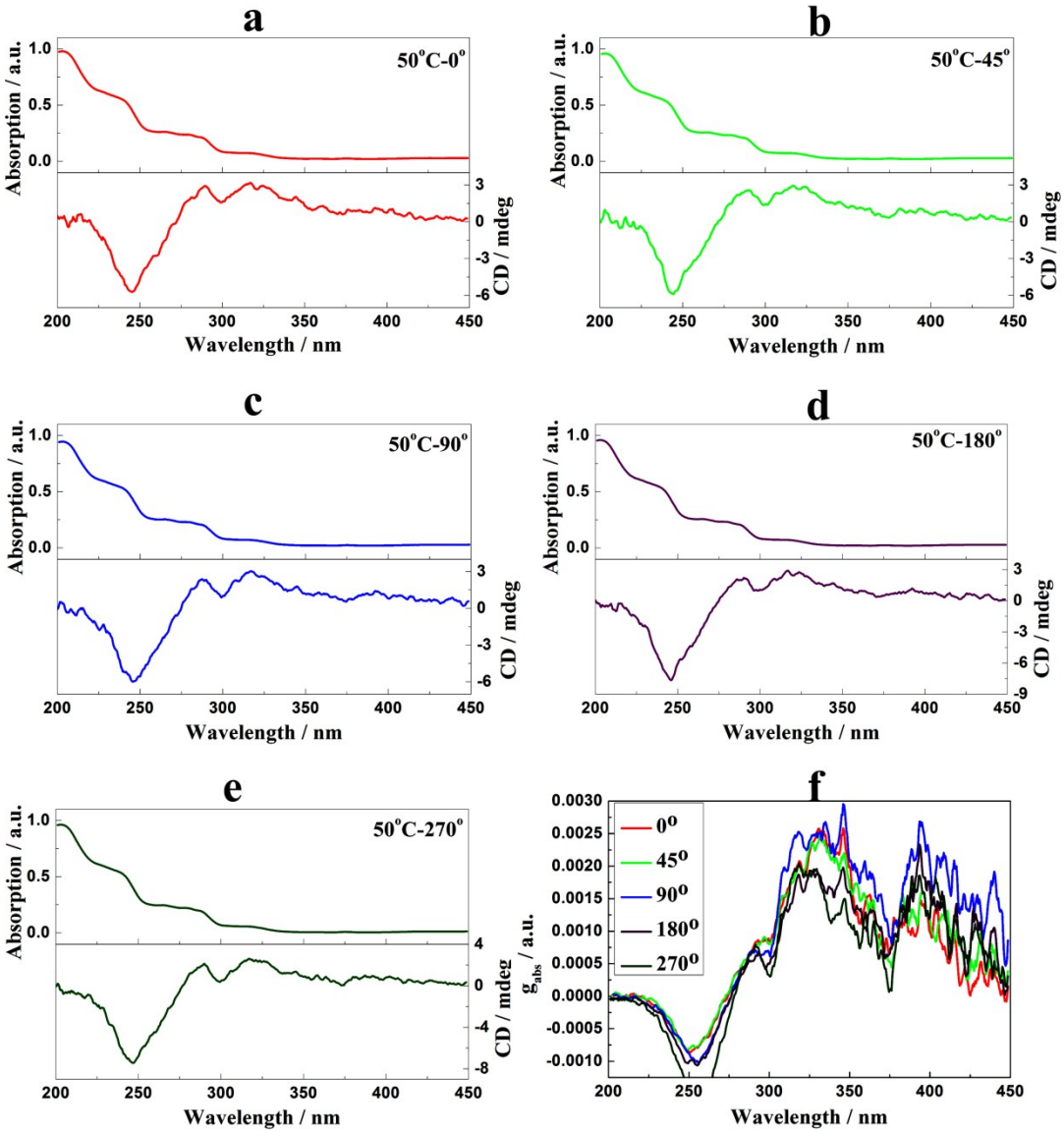

Figure S10. UV, CD and g_{abs} spectra of 2CTPE film treated under 50°C, measured under different rotation angle: a, 0°; b, 45°; c, 90°; d, 180°; e, 270°.

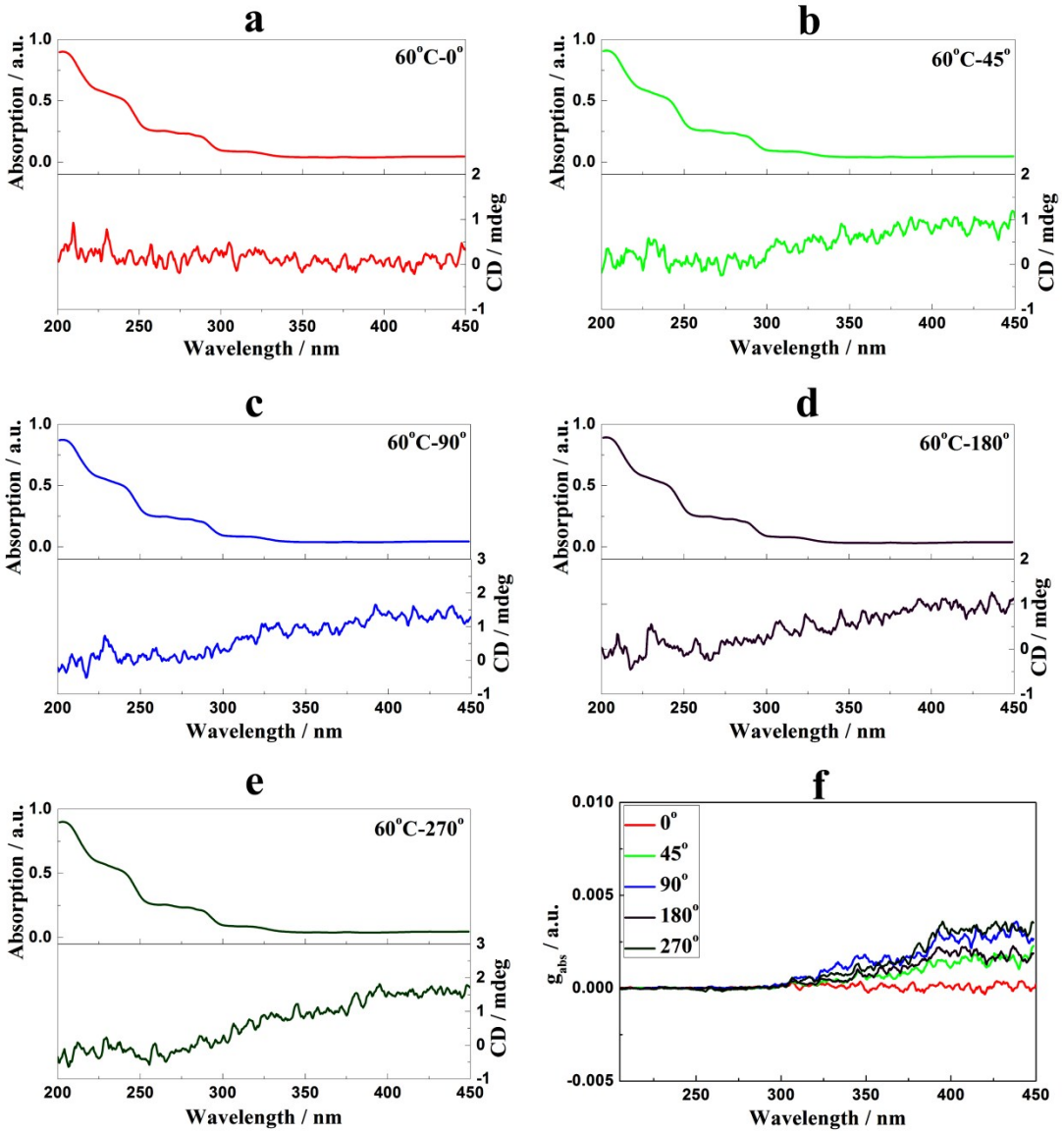

Figure S11. UV, CD and g_{abs} spectra of 2CTPE film treated under 60°C, measured under different rotation angle: a, 0°; b, 45°; c, 90°; d, 180°; e, 270°.