

## Supporting Information

### Side Chain Effects in Alkylthioether Substituted Benzodithiophene (BDT-TS) Based Polymers and Applications in Polymer Solar Cells

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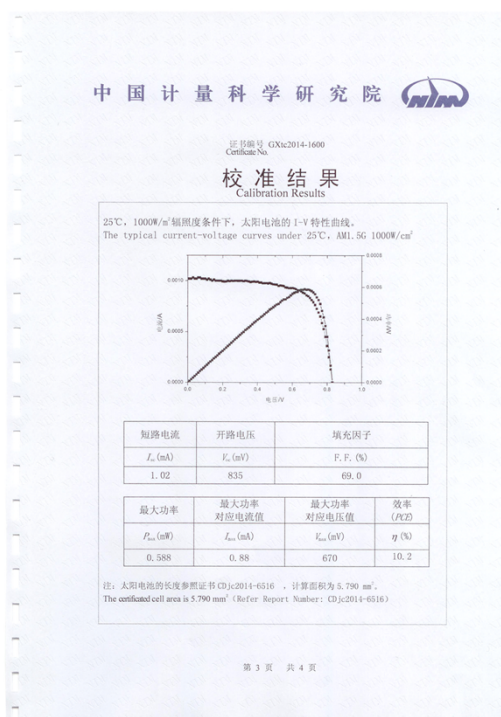
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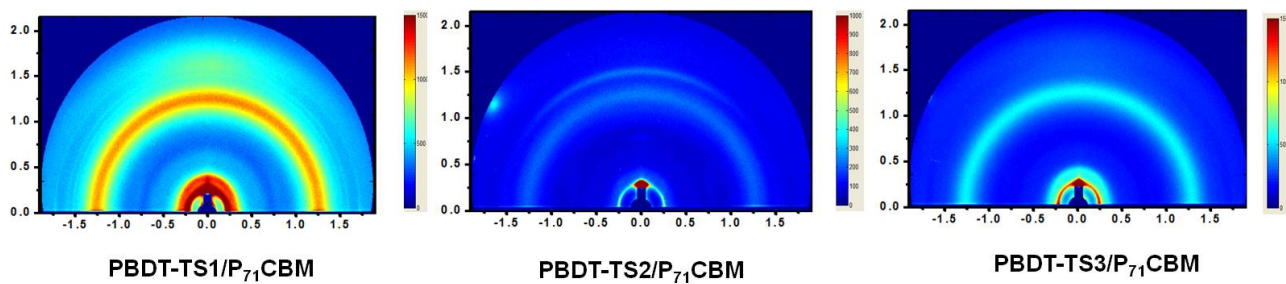
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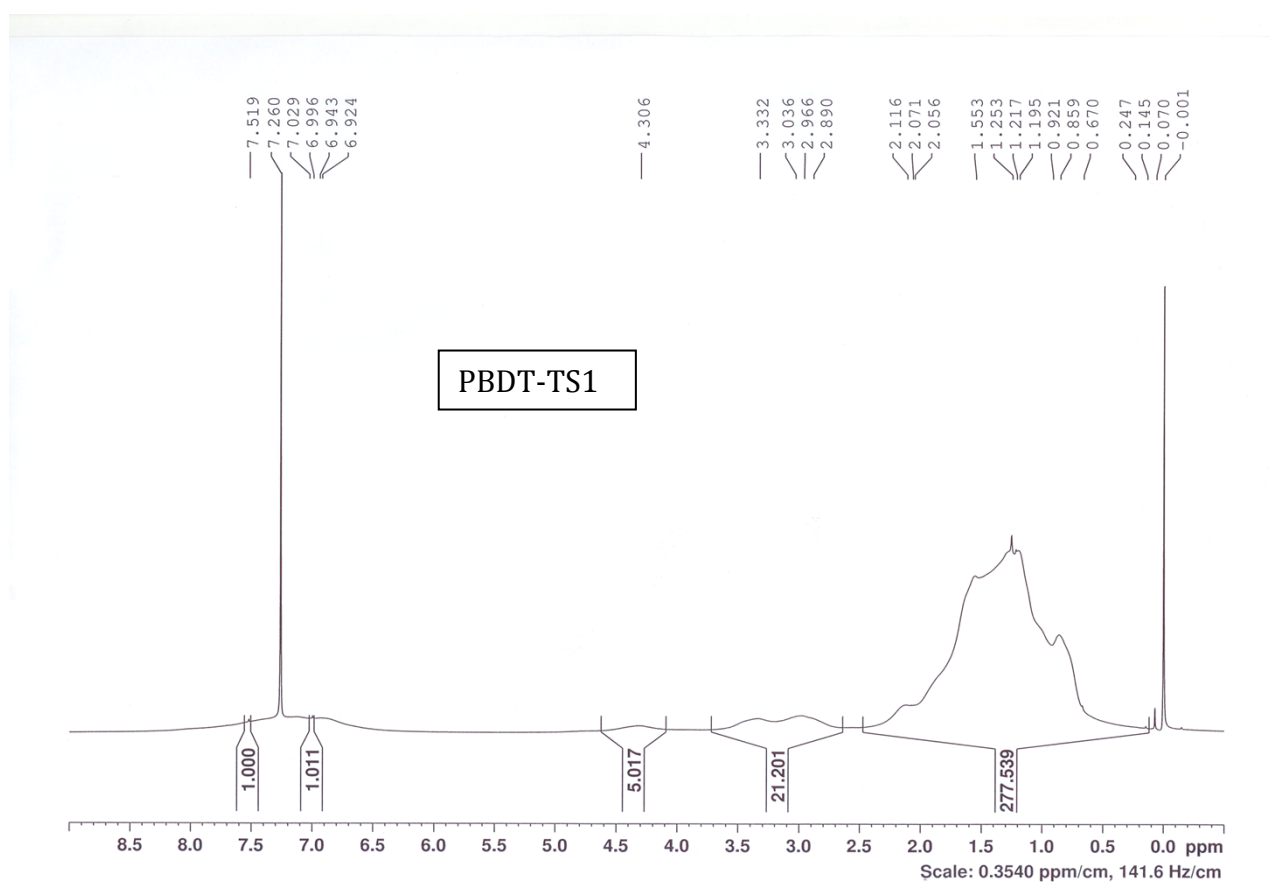
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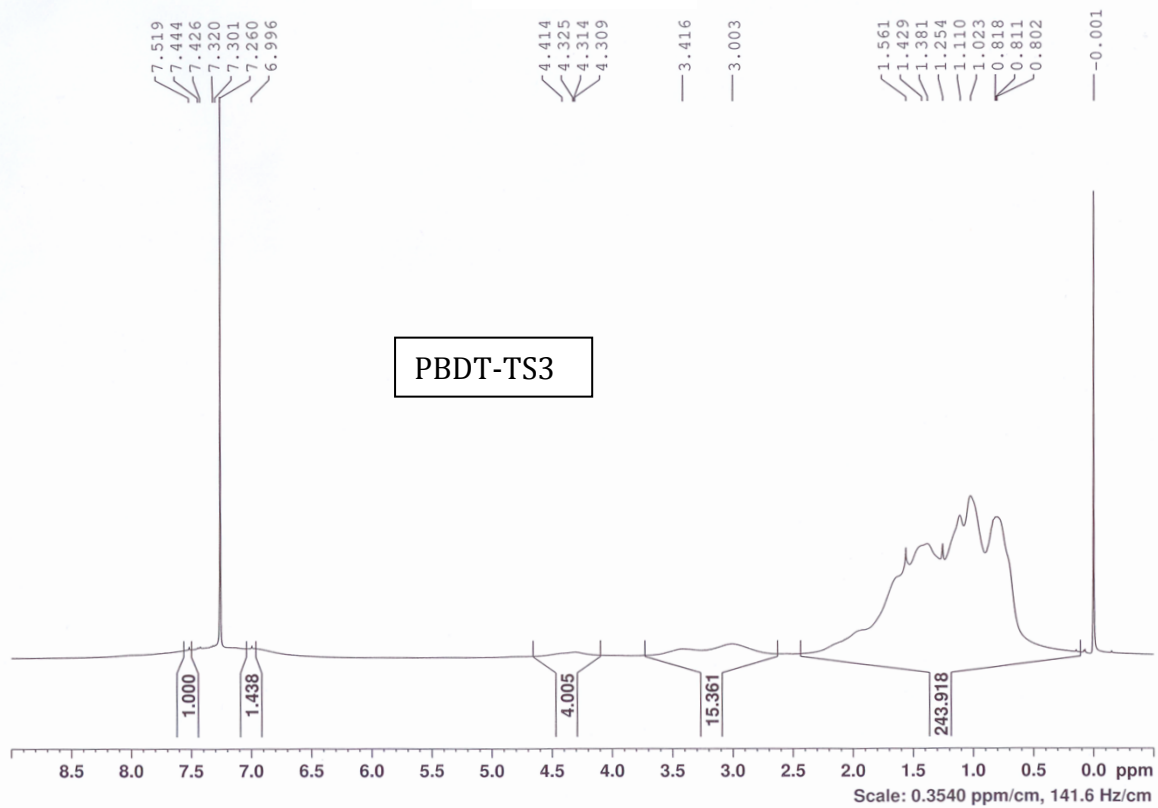
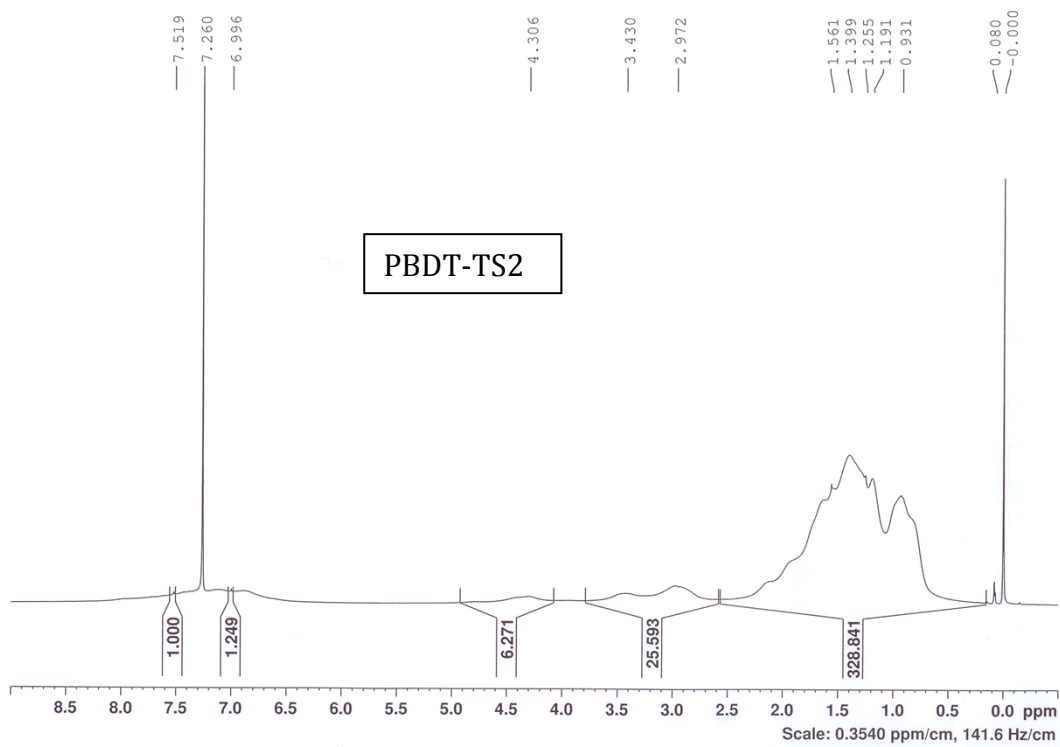


**Figure S1.** The PV certificate results by National Institute of Metrology, China (NIM)



**Figure S2.** 2D patterns GI-WAXS data of the blend films of PBDT-TS1:PC<sub>71</sub>BM, PBDT-TS2:PC<sub>71</sub>BM and PBDT-TS3:PC<sub>71</sub>BM.





**Figure S3.** The  $^1\text{H}$  NMR data of the three polymers.