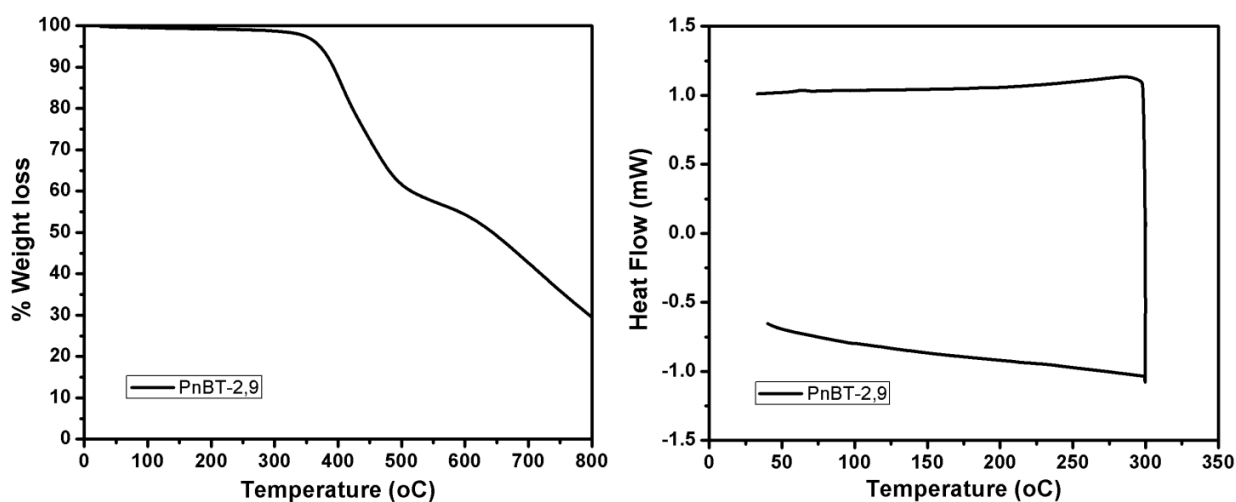


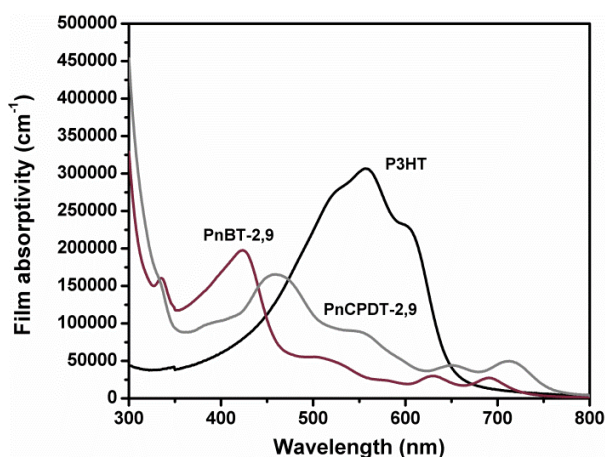
## Supporting information for

# Impact of Regioregularity on Thin-Film Transistor and Photovoltaic Cell Performances of Pentacene-Containing Polymers

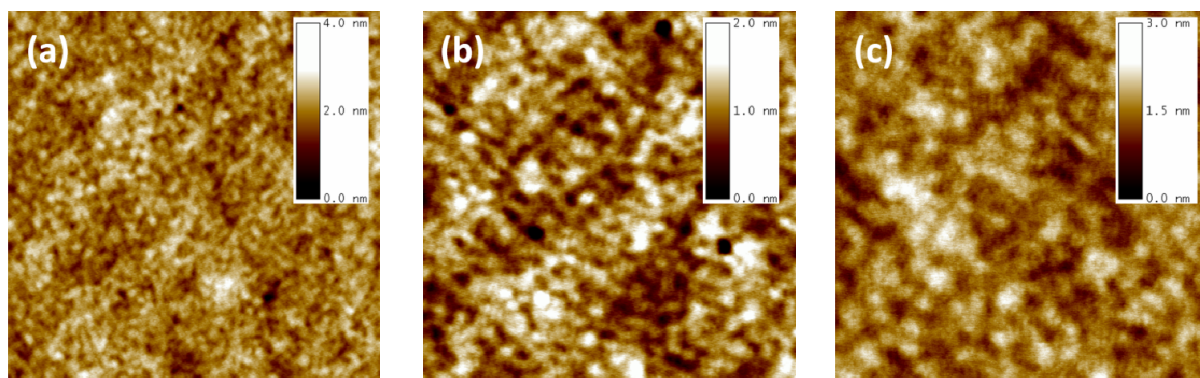
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**Figure S1.** (a) Thermalgravimetric analysis and (b) differential scanning calorimetry thermograph of **PnBT-2,9**.



**Figure S2.** Film absorptivity of **PnBT-2,9** and **PnCPDT-2,9** as compared to **P3HT**, indicating the pentacene-containing polymers' lower absorptivity. **PnCPDT-2,9** absorbs more intensely in the visible wavelengths than **PnBT-2,9**.



**Figure S3.**  $1\ \mu\text{m} \times 1\ \mu\text{m}$  AFM topographs of (a) **PnCPDT-2,9**; (b) **PnCPDT-2,10**; (c) **PnCPDT-RRa** polymer-PC<sub>71</sub>BM blend films spin-cast from *o*-DCB at a polymer:PC<sub>71</sub>BM weight ratio of 1:4.