

Electronic Supplementary Information (ESI)

Synthesis, characterization and bulk-heterojunction photovoltaic applications of new naphtho[1,2-b:5,6-b']dithiophene-quinoxaline containing narrow band gap D-A conjugated polymers

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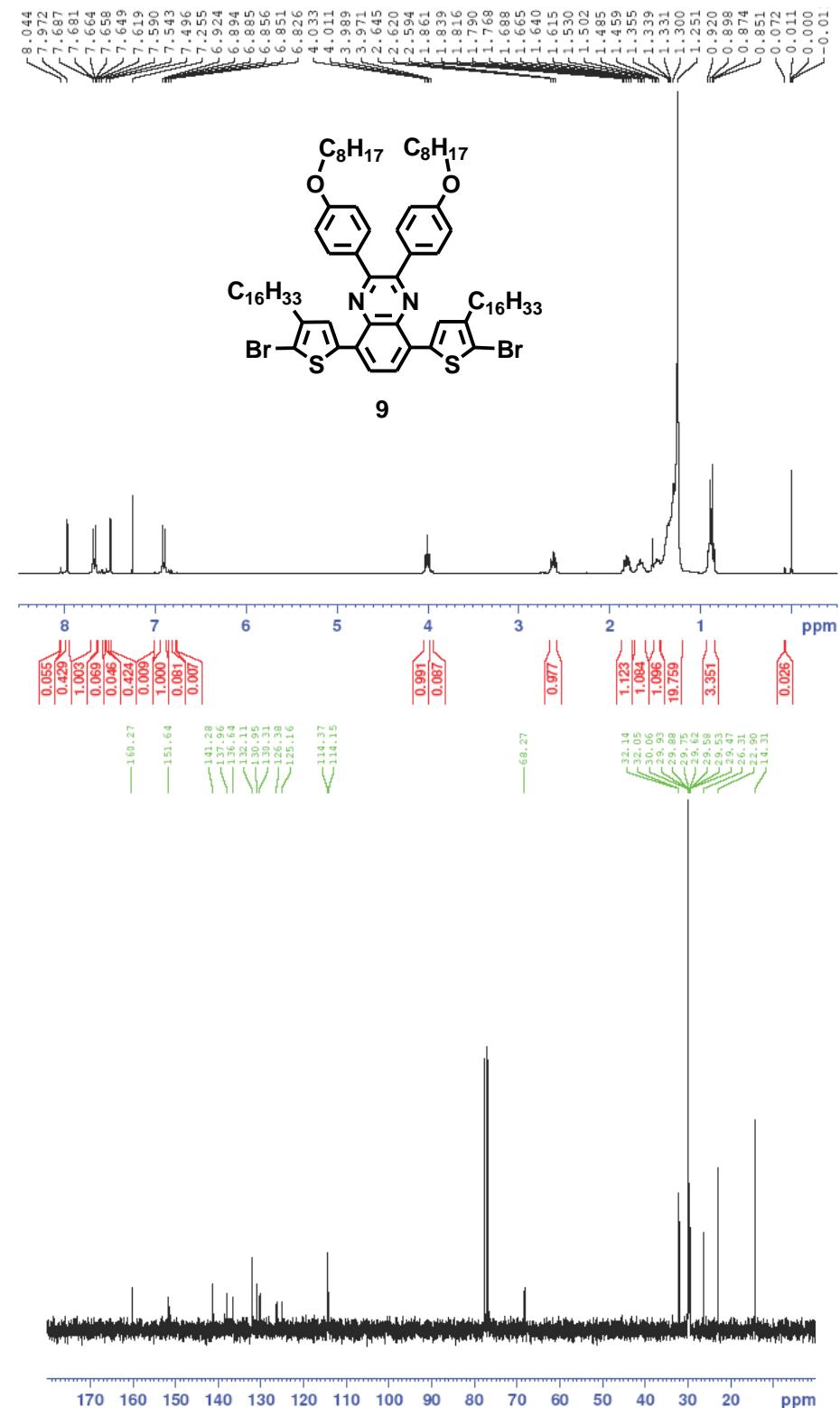
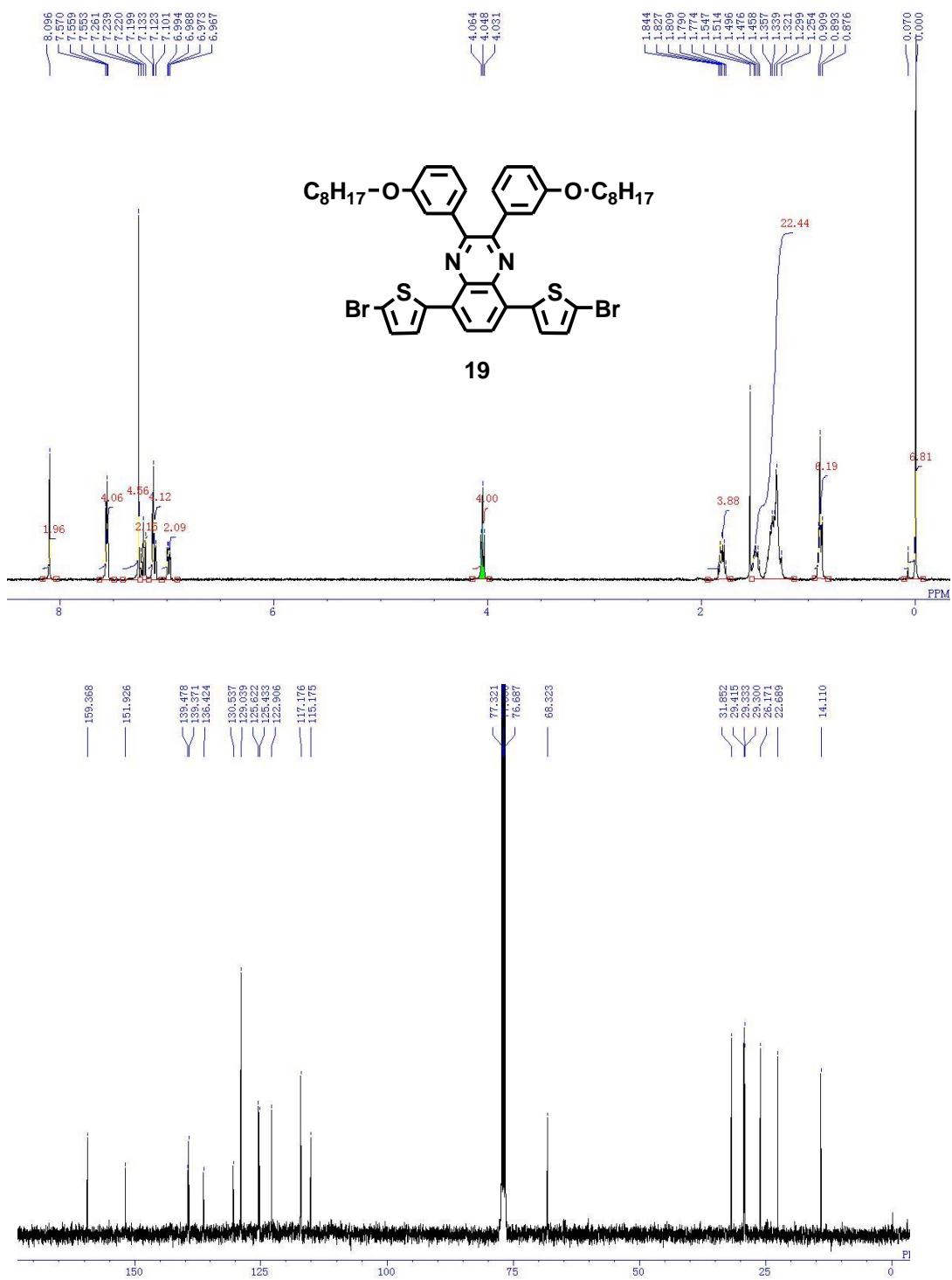


Fig. S1. ¹H and ¹³C NMR spectra of compound 9.



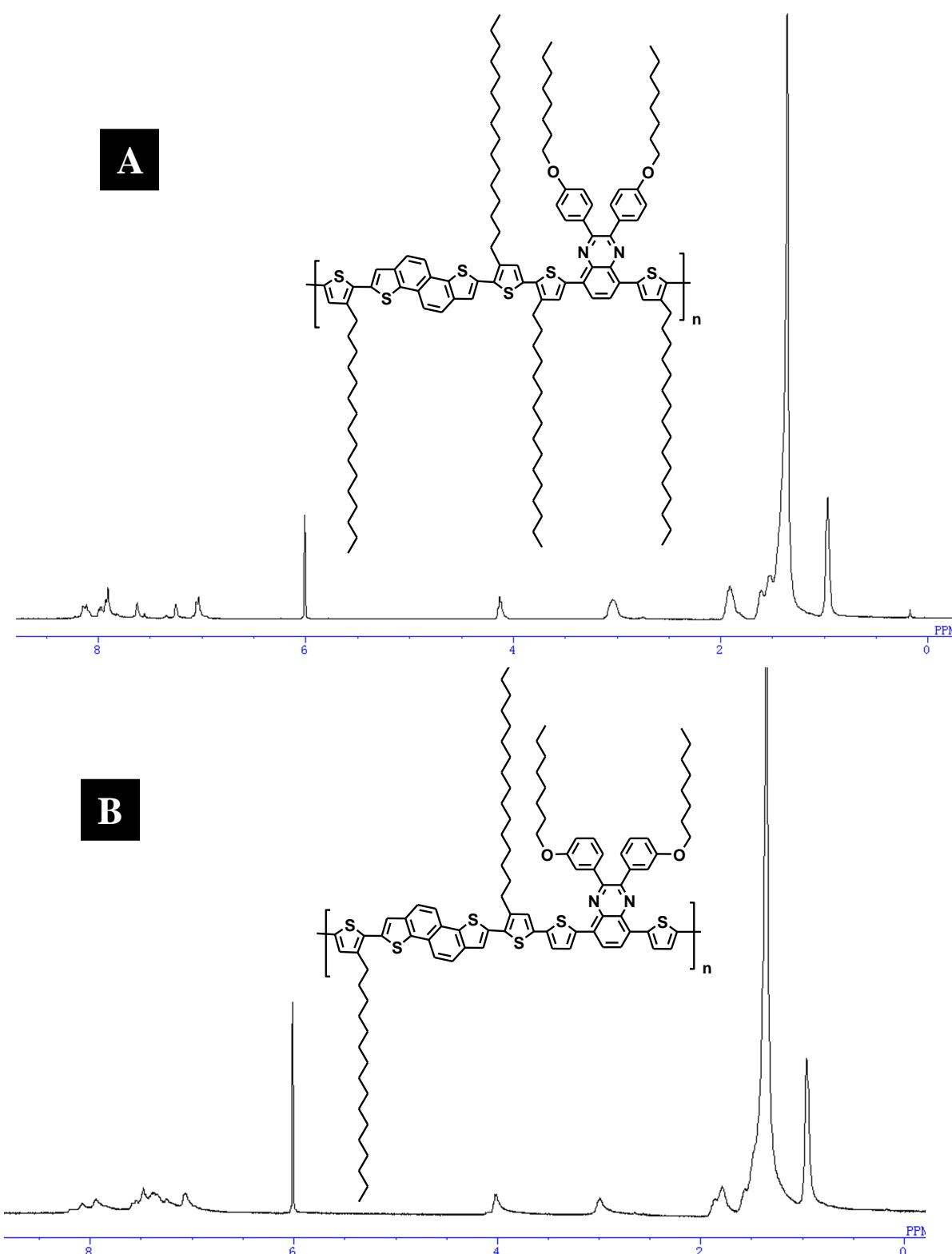


Fig S3. ¹H-NMR spectra of PTNDTT-QX-I (**A**) and PTNDTT-QX-II (**B**) in CDCl₂CDCl₂ at 127 °C.

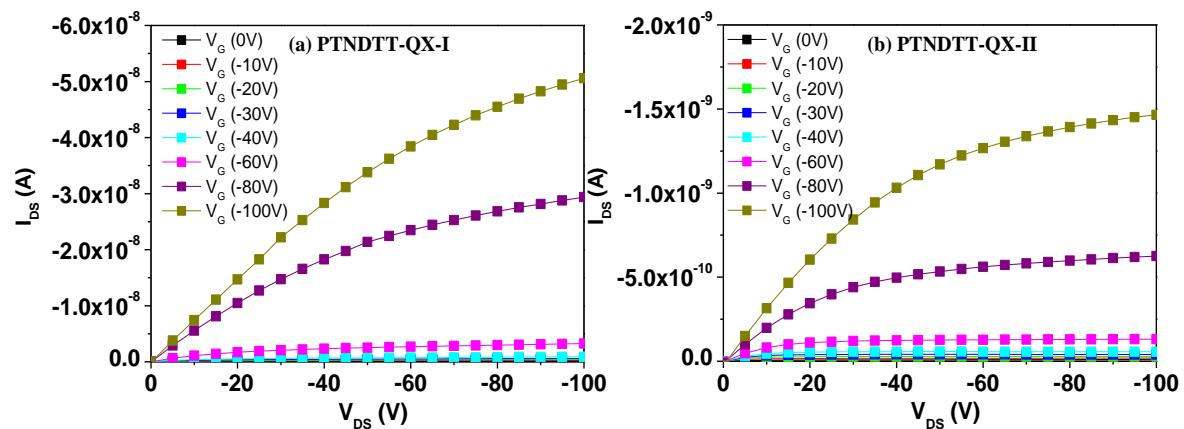


Fig S4. Output curves of bottom-gate top-contact thin film transistors (TFT) devices based on (a) PTNDTT-QX-I and (b) PTNDTT-QX-II.