

Supporting Information

Starburst 4,4',4''-Tris(carbazol-9-yl)-triphenylamine-Based Deep-Blue Fluorescent Emitters with Tunable Oligophenyl Length for Solution-Processed Undoped Organic Light-Emitting Diodes

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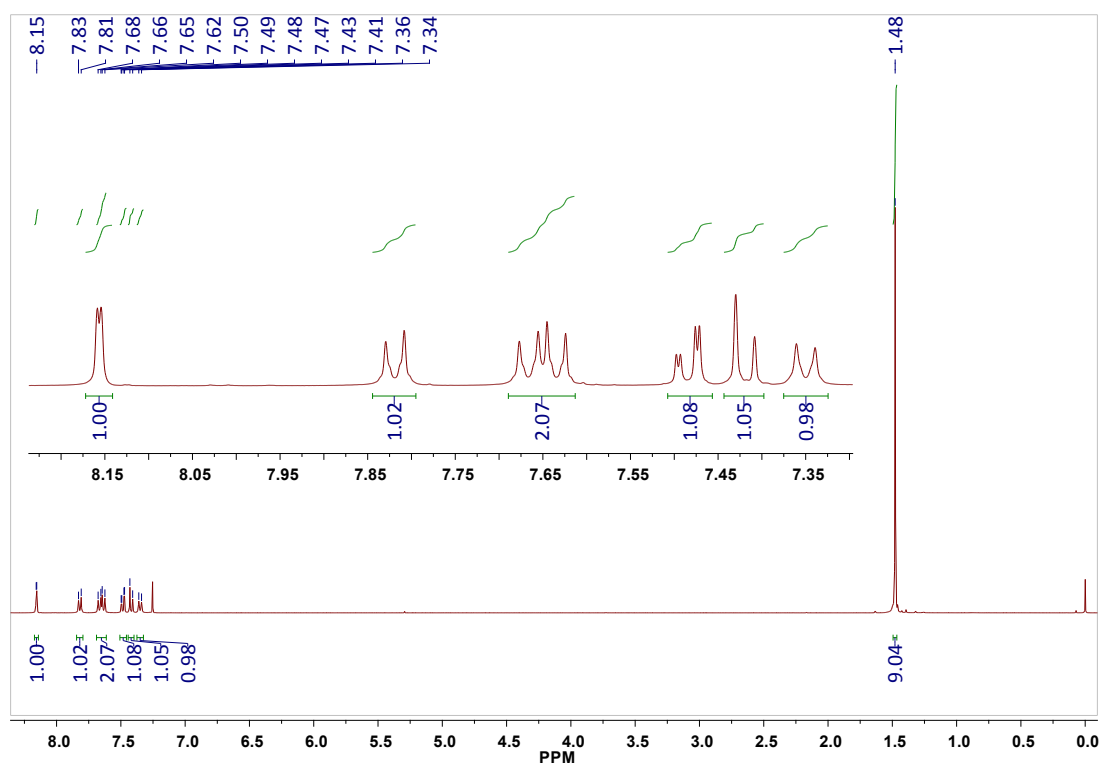


Figure S1. ¹H NMR spectrum of 2P-TCTA.

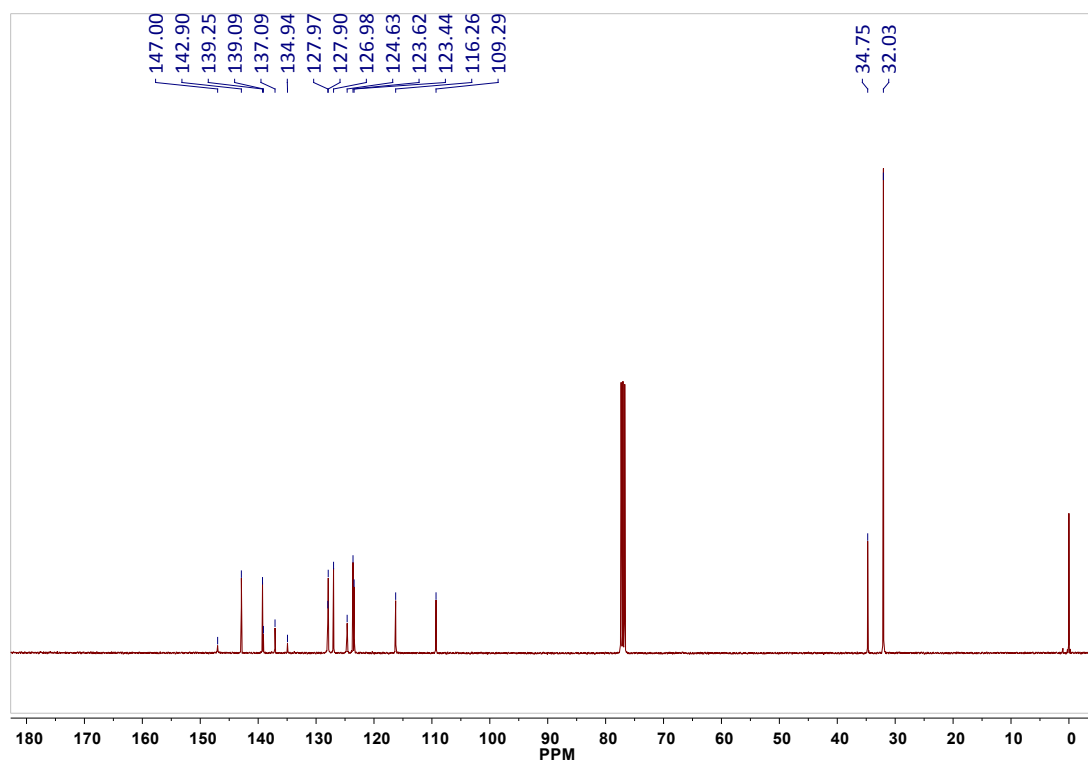


Figure S2. ¹³C NMR spectrum of 2P-TCTA.

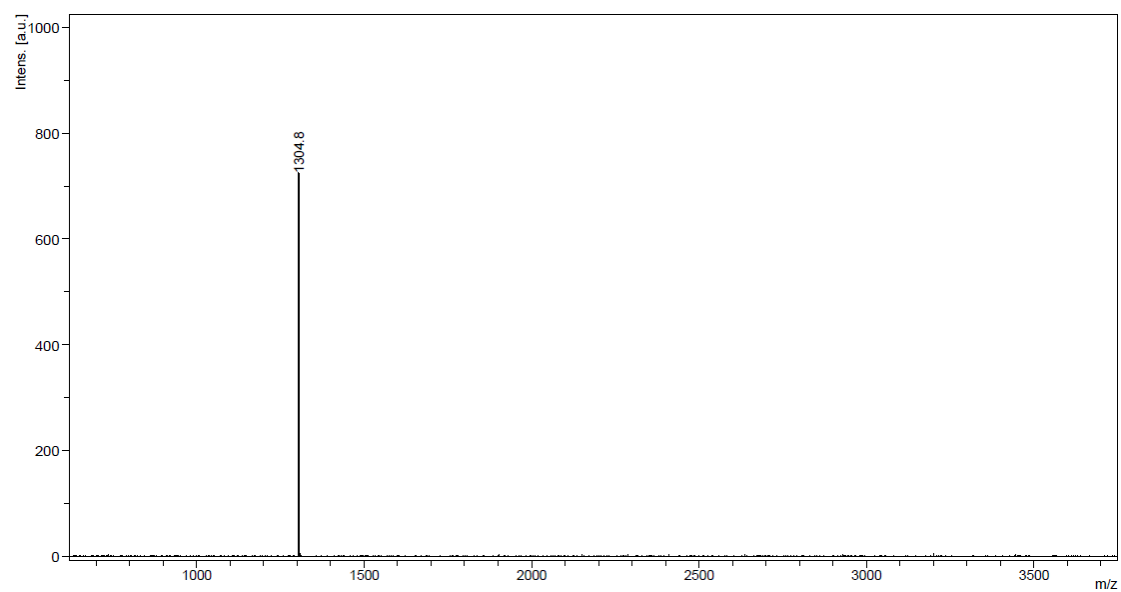


Figure S3. MALDI mass spectrum of 2P-TCTA.

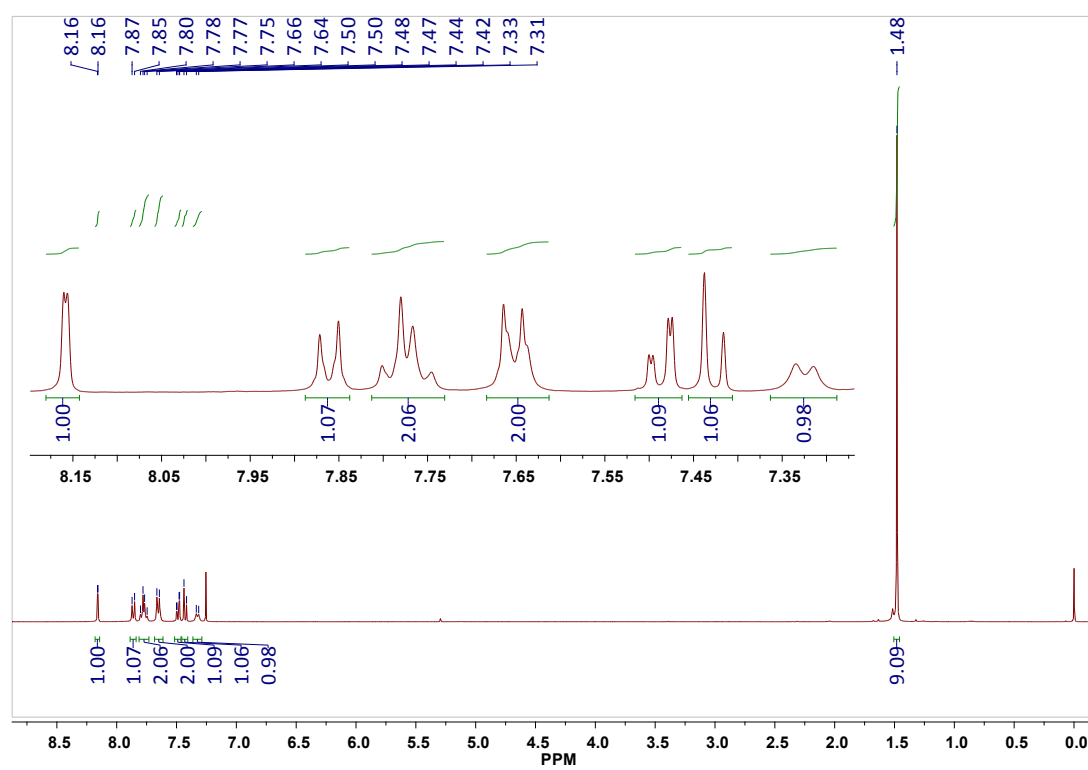


Figure S4. ¹H NMR spectrum of 3P-TCTA.

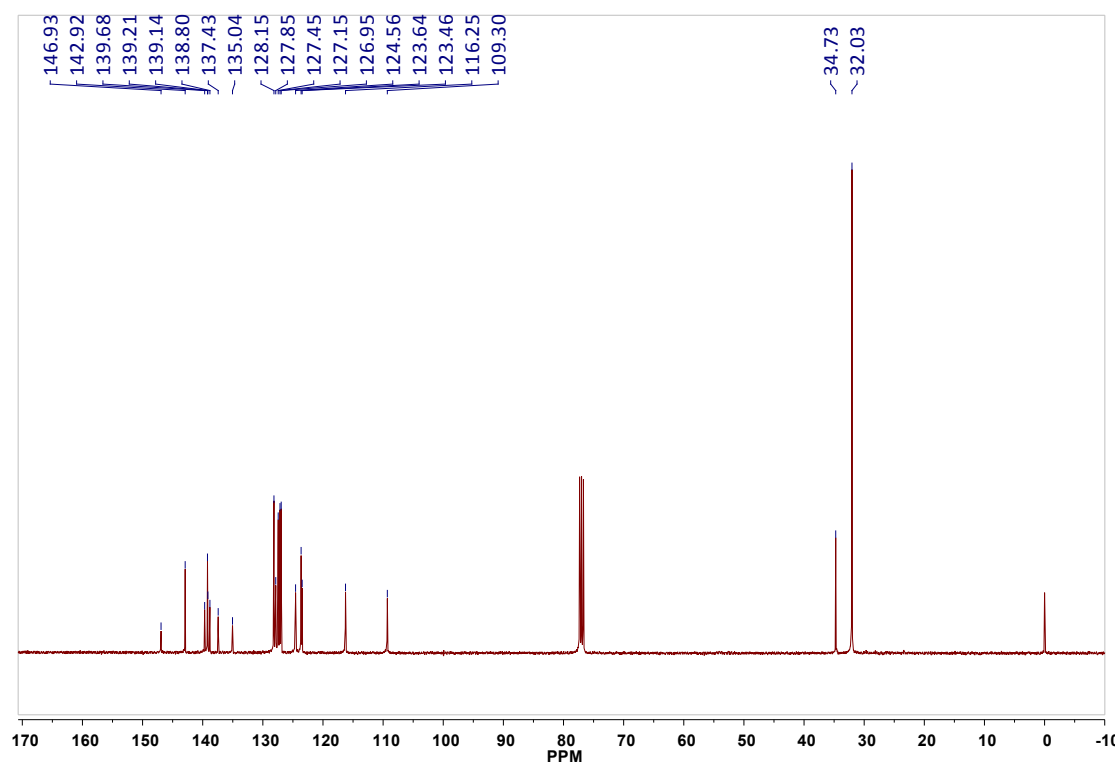


Figure S5. ¹³C NMR spectrum of 3P-TCTA.

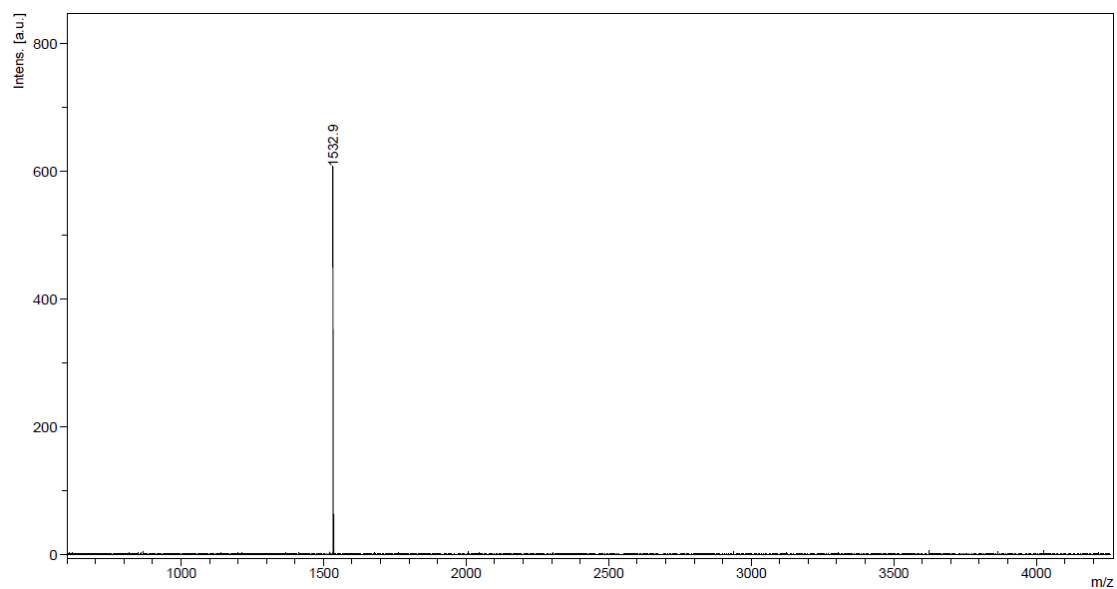


Figure S6. MALDI mass spectrum of 3P-TCTA.

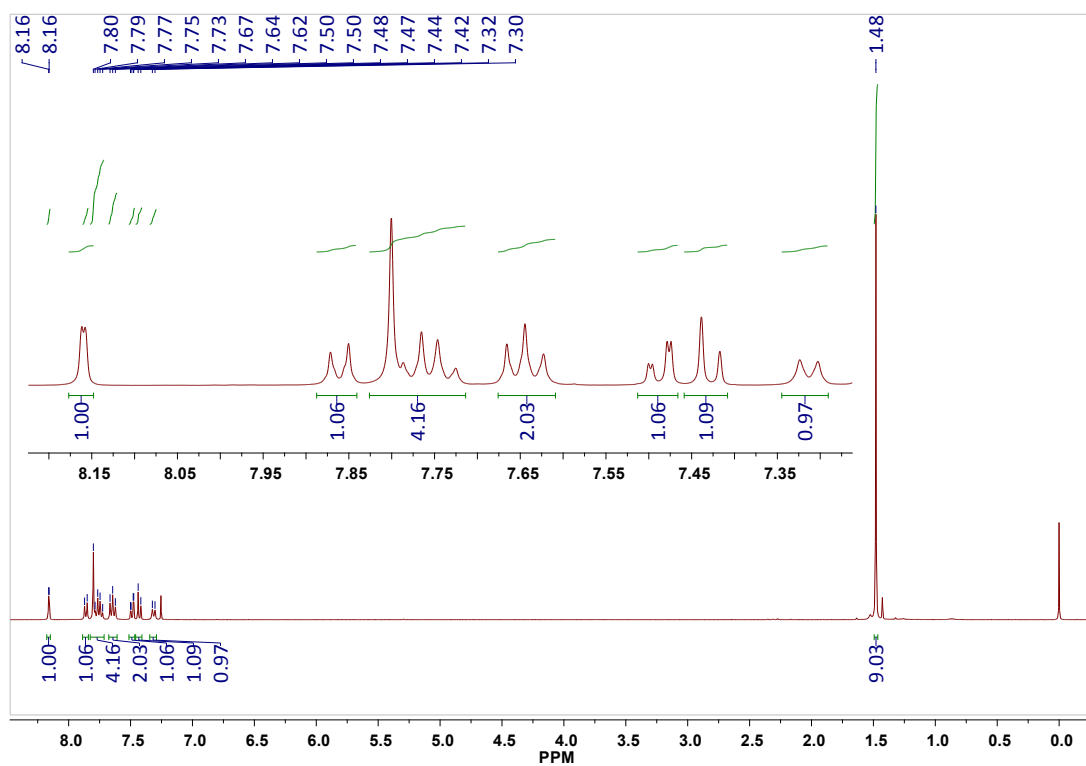


Figure S7. ¹H NMR spectrum of 4P-TCTA.

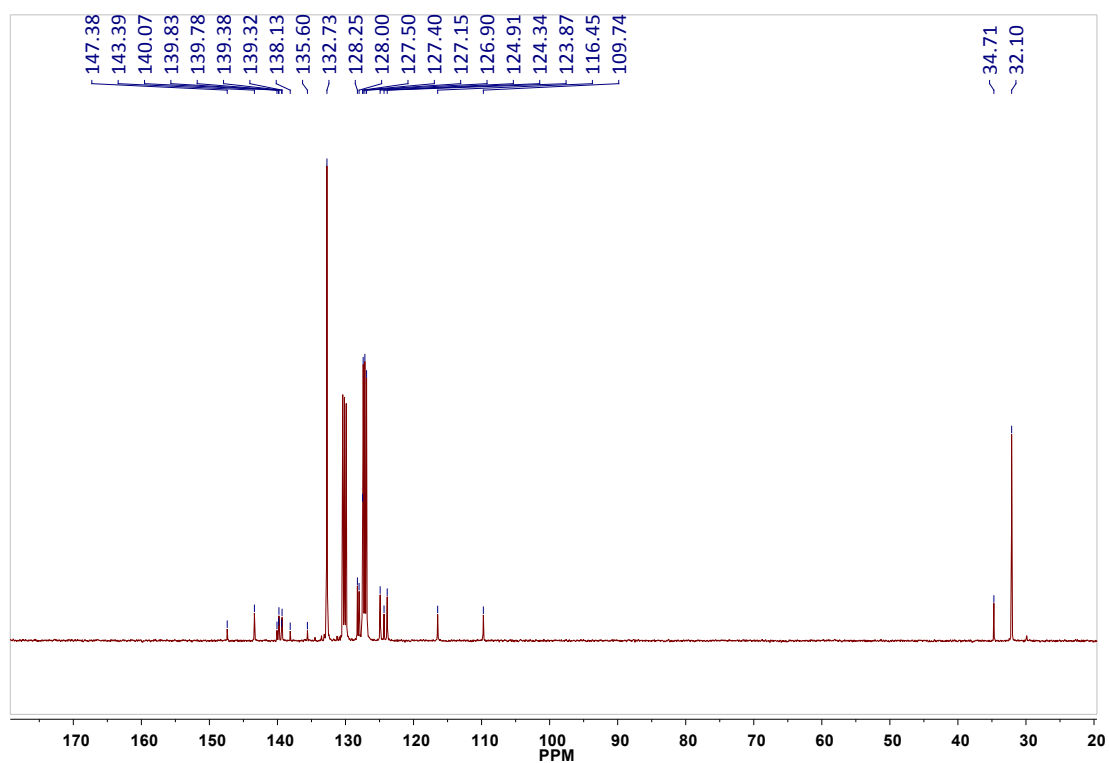


Figure S8. ¹³C NMR spectrum of 4P-TCTA.

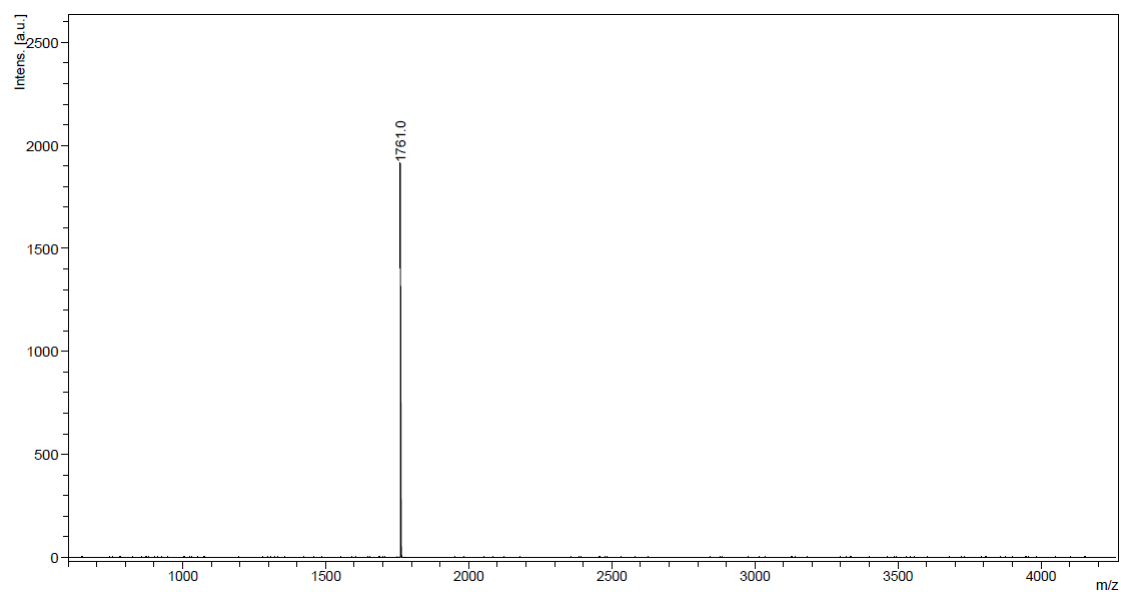


Figure S9. MALDI mass spectrum of 4P-TCTA.

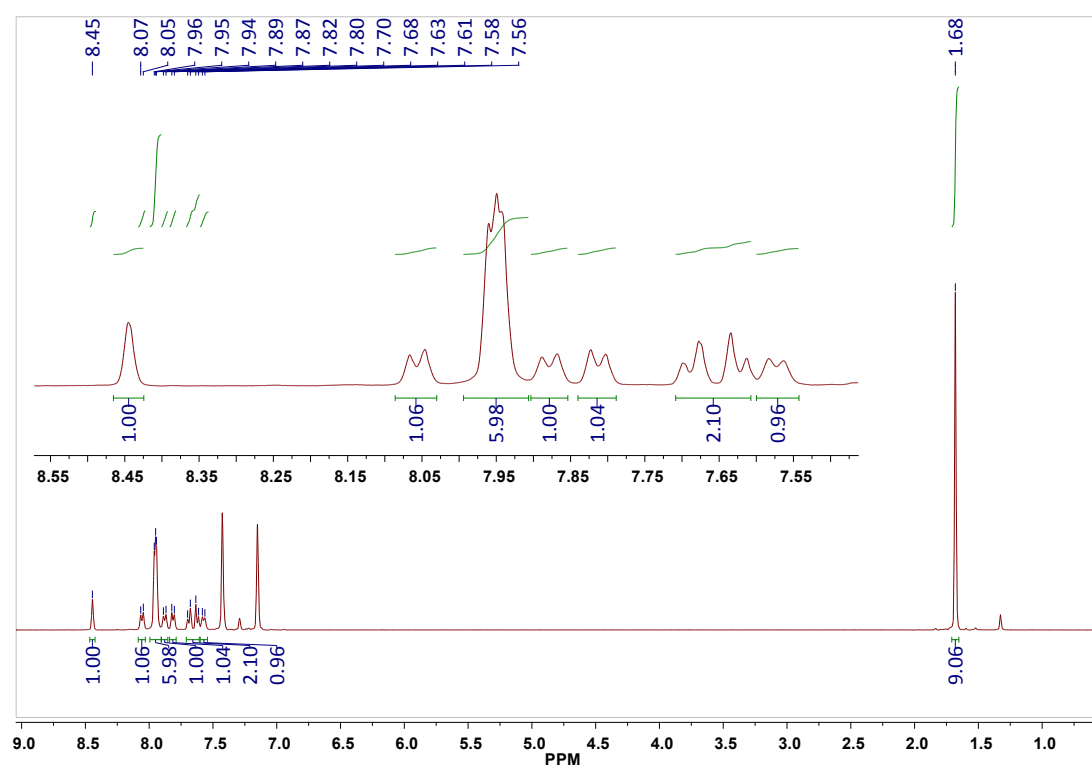


Figure S10. ¹H NMR spectrum of 5P-TCTA.

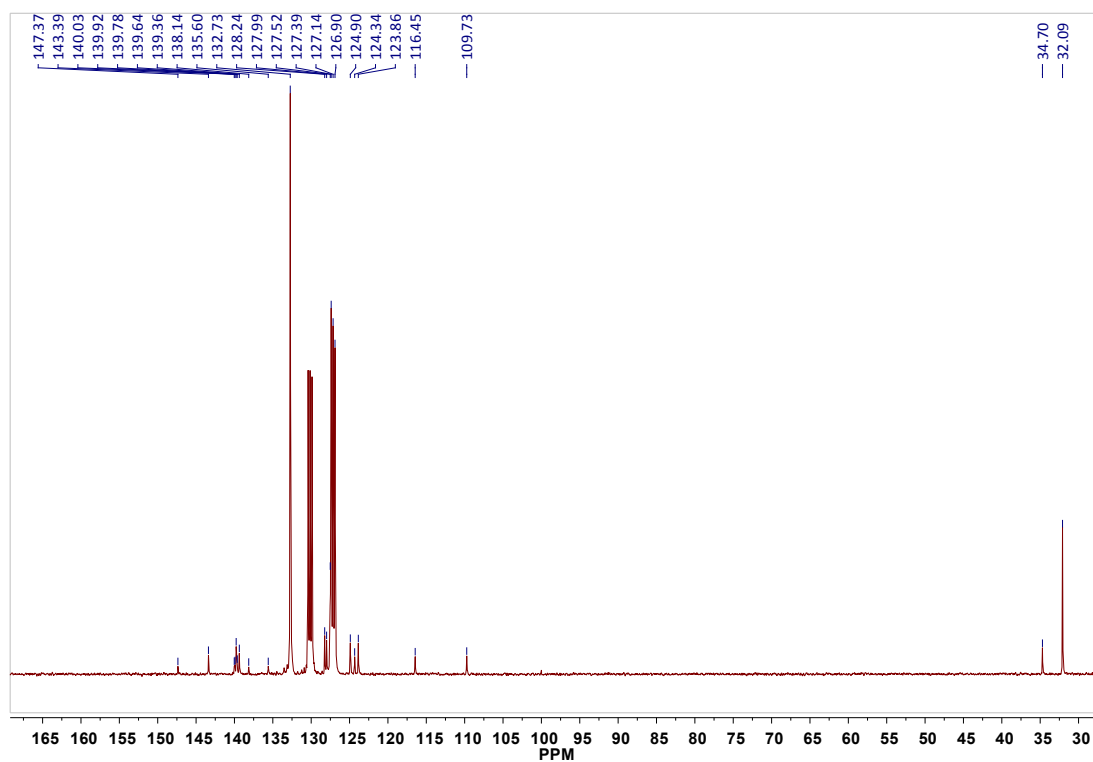


Figure S11. ¹³C NMR spectrum of 5P-TCTA.

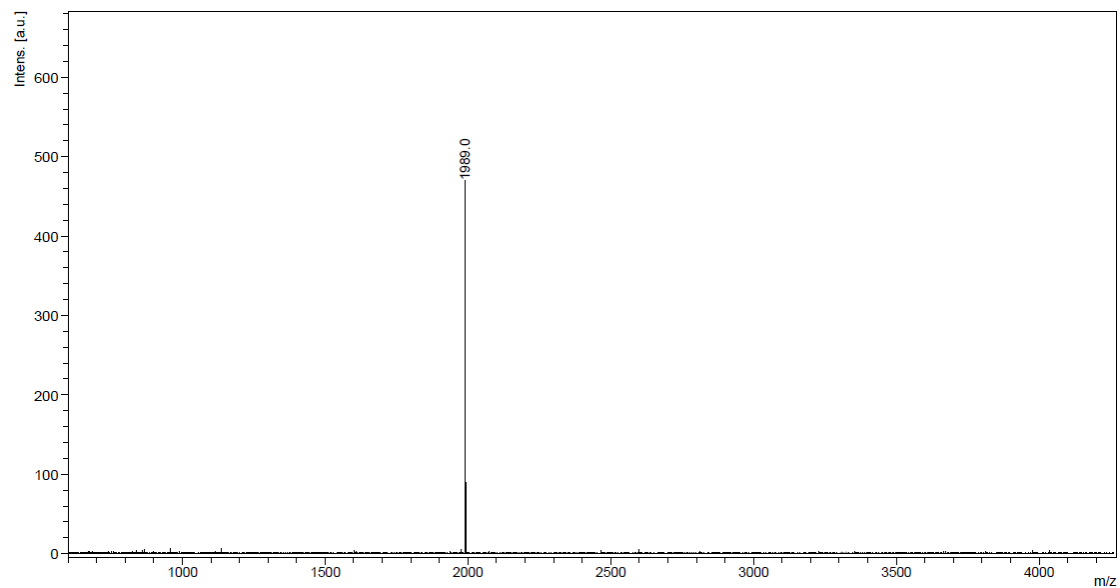


Figure S12. MALDI-TOF mass spectrum of 5P-TCTA.

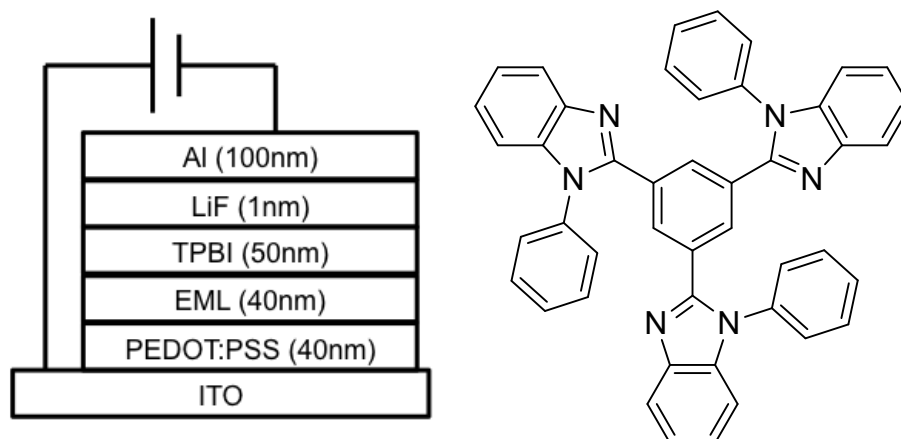


Figure S13. The architecture of the devices and the chemical structure of 1,3,5-tris(1-phenyl-1H-benzimidazol-2-yl)benzene (TPBI).

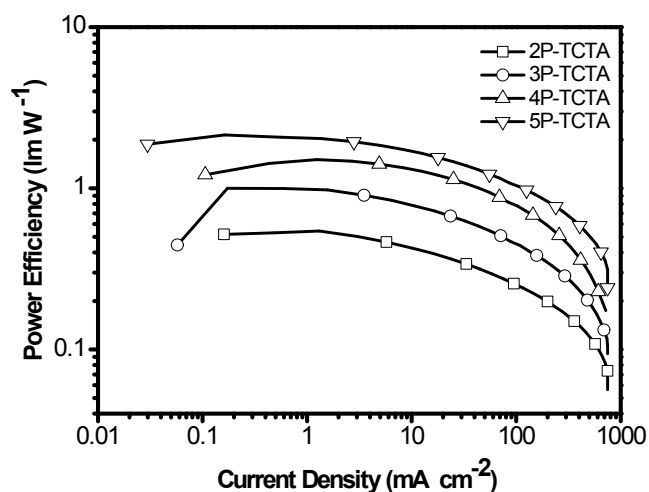


Figure S14. The power efficiency — current density characteristics of the devices.

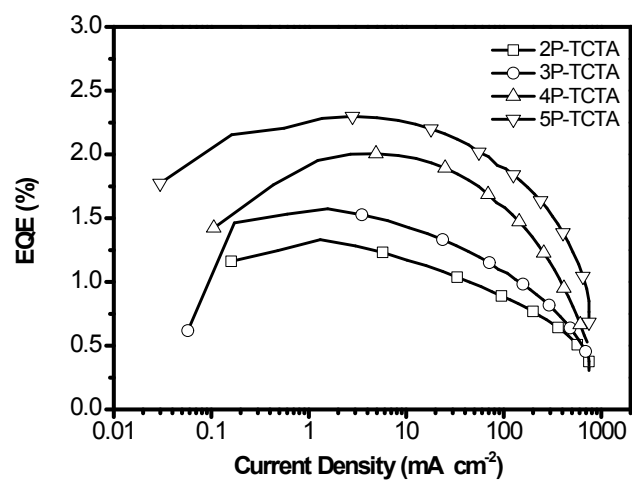


Figure S15. The external quantum efficiency — current density characteristics of the devices.