

Supplementary Information

**Hybrid host materials for highly efficient electrophosphorescence and thermally activated delayed fluorescence independent of the linkage mode**

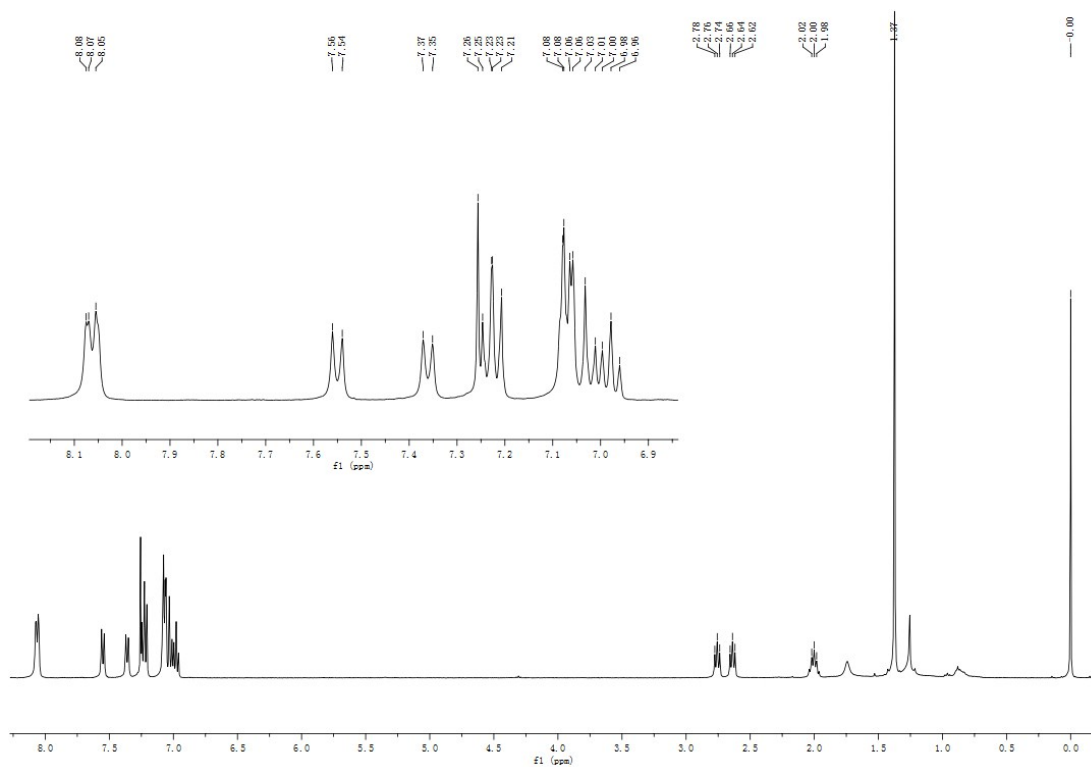
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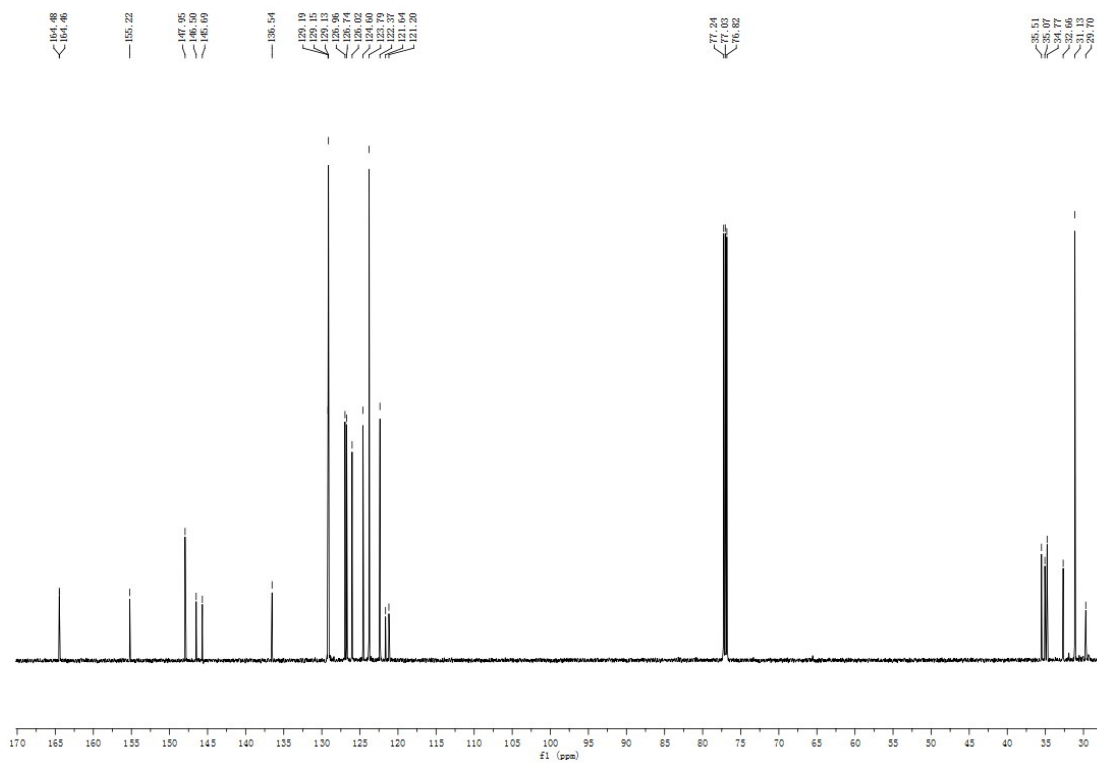
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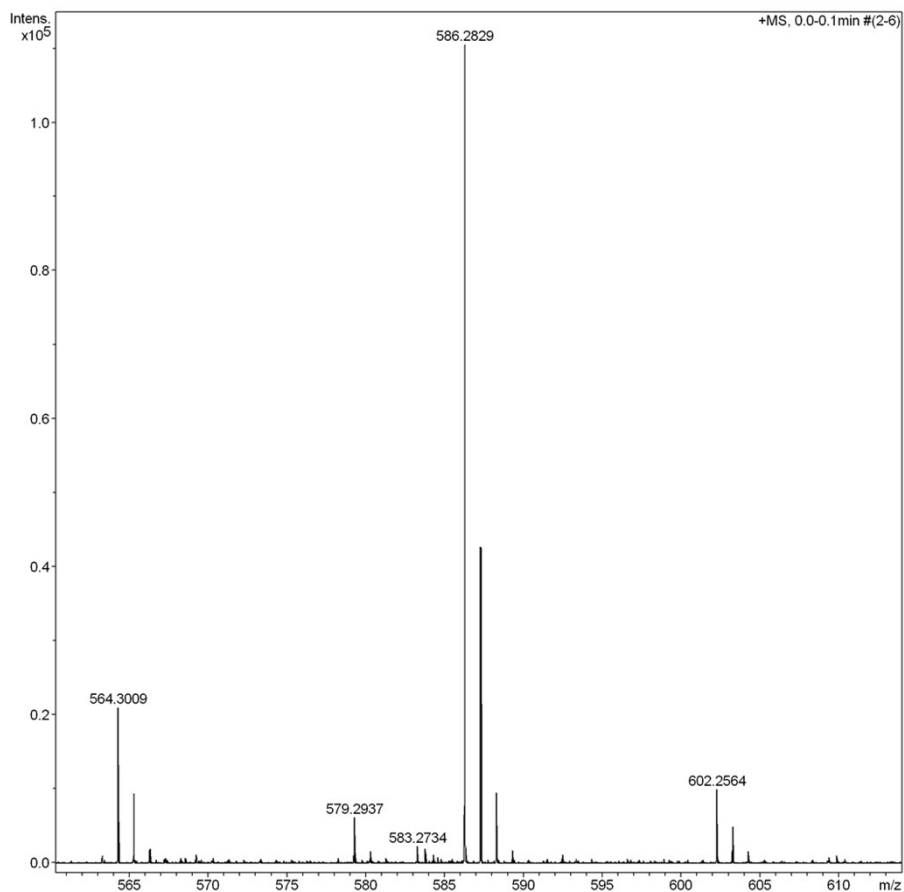
<sup>d</sup> Institute of Polymer Optoelectronic Materials and Devices, State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, P. R. China



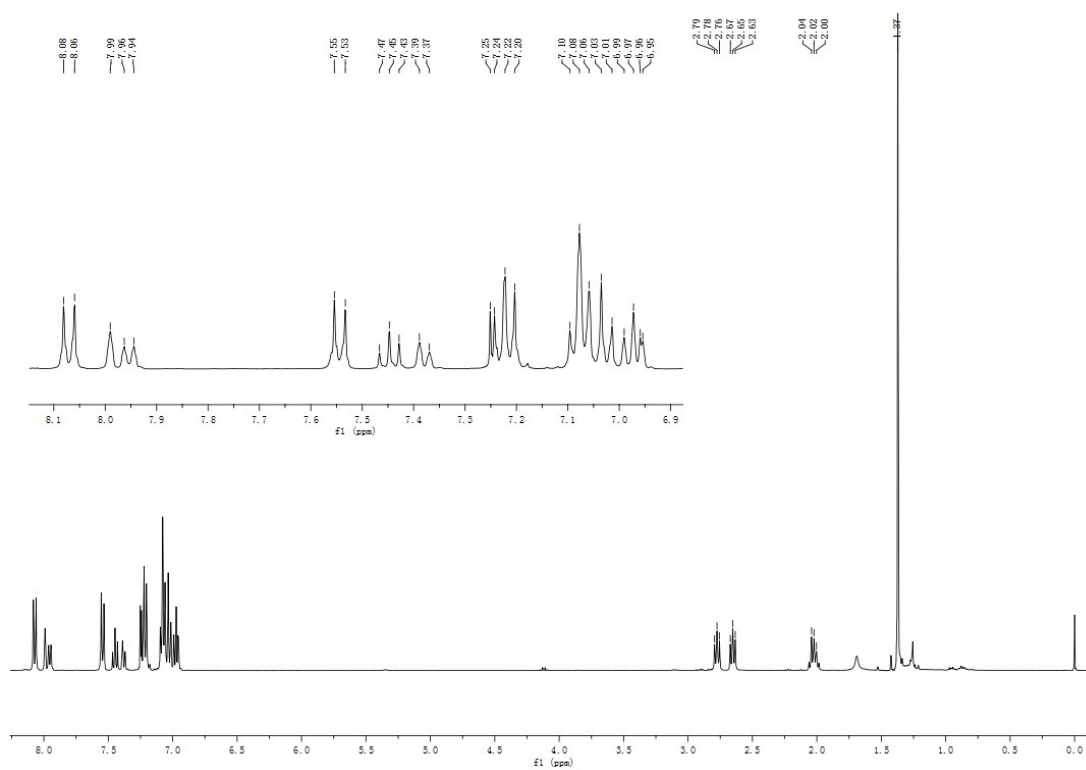
**Fig. S1**  $^1\text{H}$  NMR spectrum of *t*Bu-OXD-*o*-L-TPA in  $\text{CDCl}_3$ .



**Fig. S2**  $^{13}\text{C}$  NMR spectrum of *t*Bu-OXD-*o*-L-TPA in  $\text{CDCl}_3$ .



**Fig. S3** HRMS spectrum of *t*Bu-OXD-*o*-L-TPA.



**Fig. S4**  $^1\text{H}$  NMR spectrum of *t*Bu-OXD-*m*-L-TPA in  $\text{CDCl}_3$ .

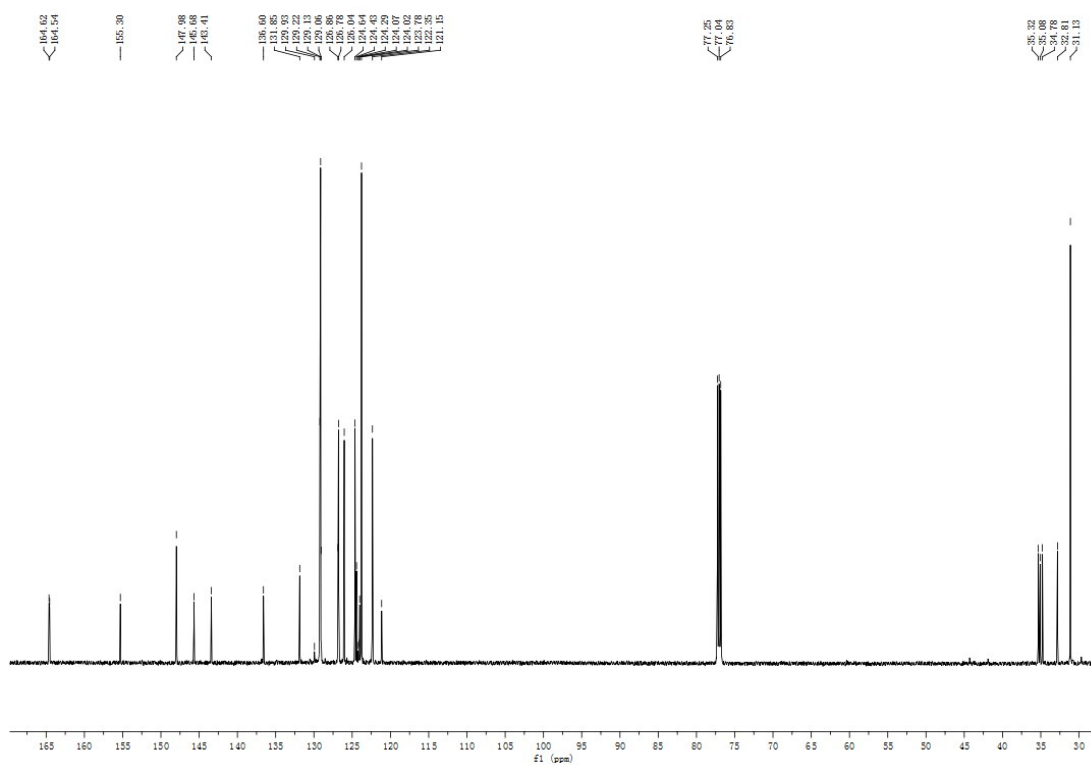


Fig. S5  $^{13}\text{C}$  NMR spectrum of *t*Bu-OXD-*m*-L-TPA in  $\text{CDCl}_3$ .

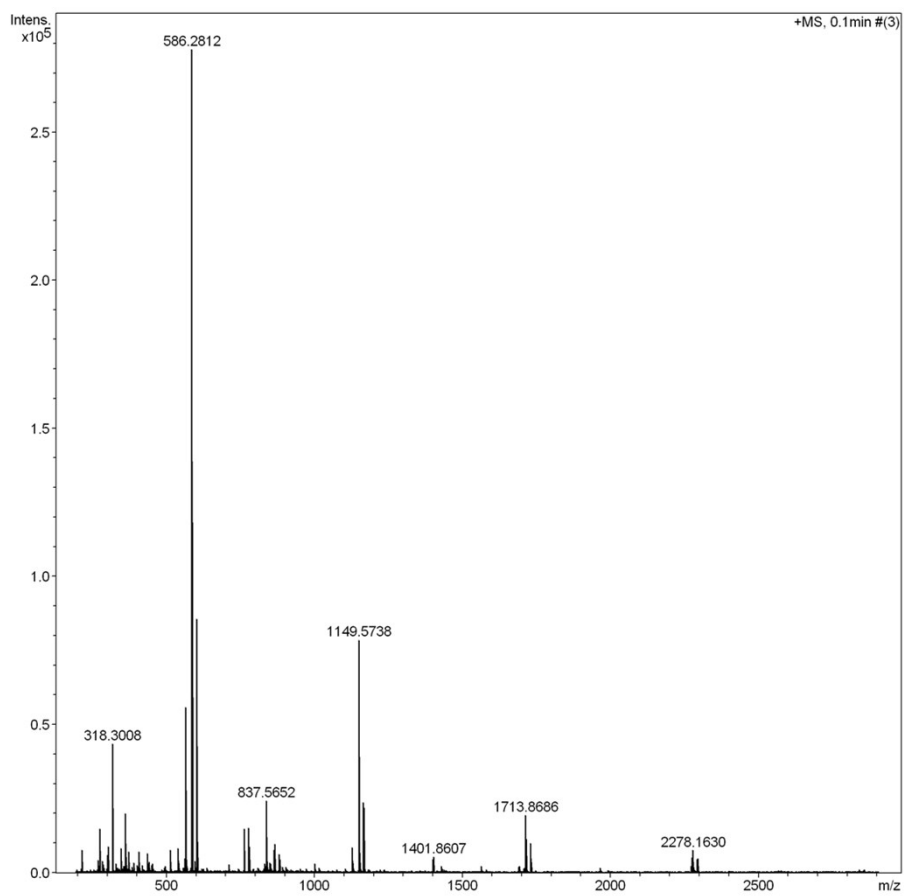
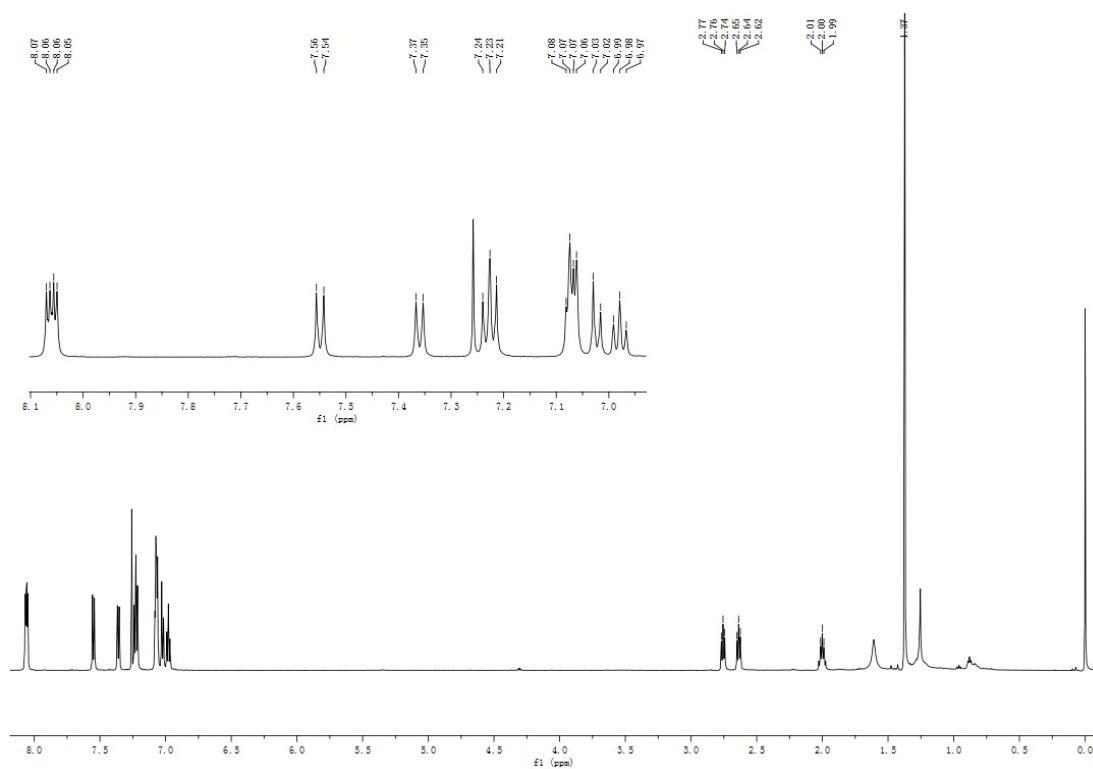
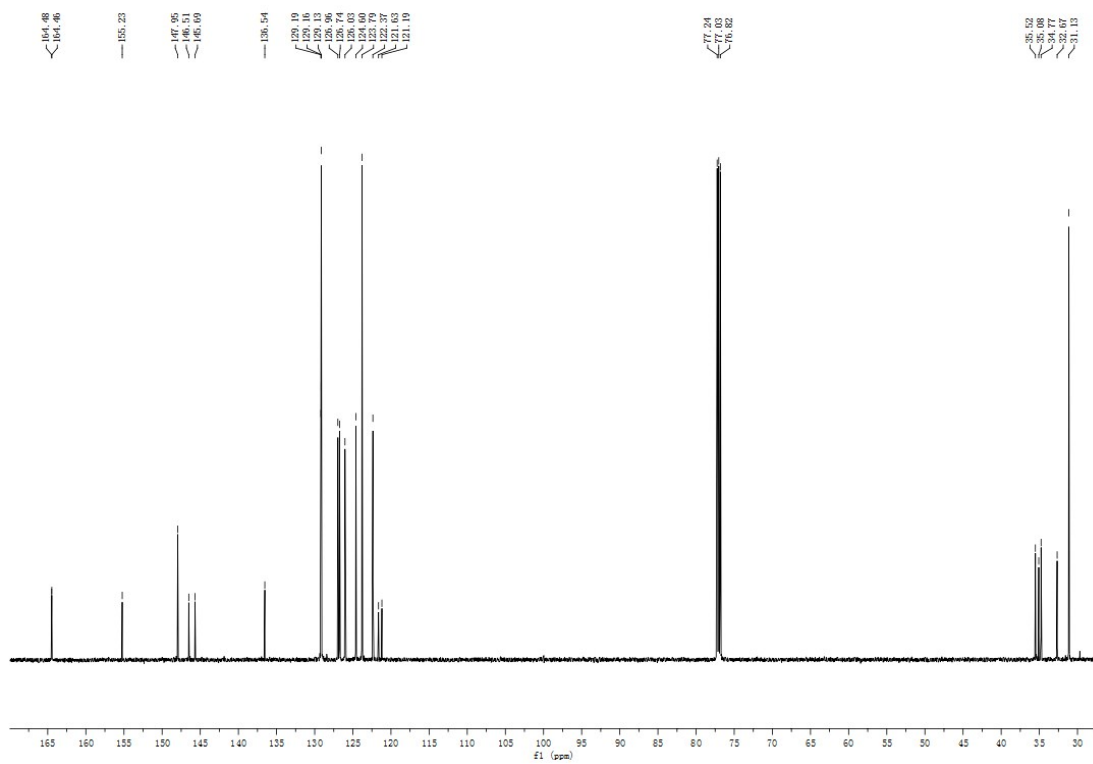


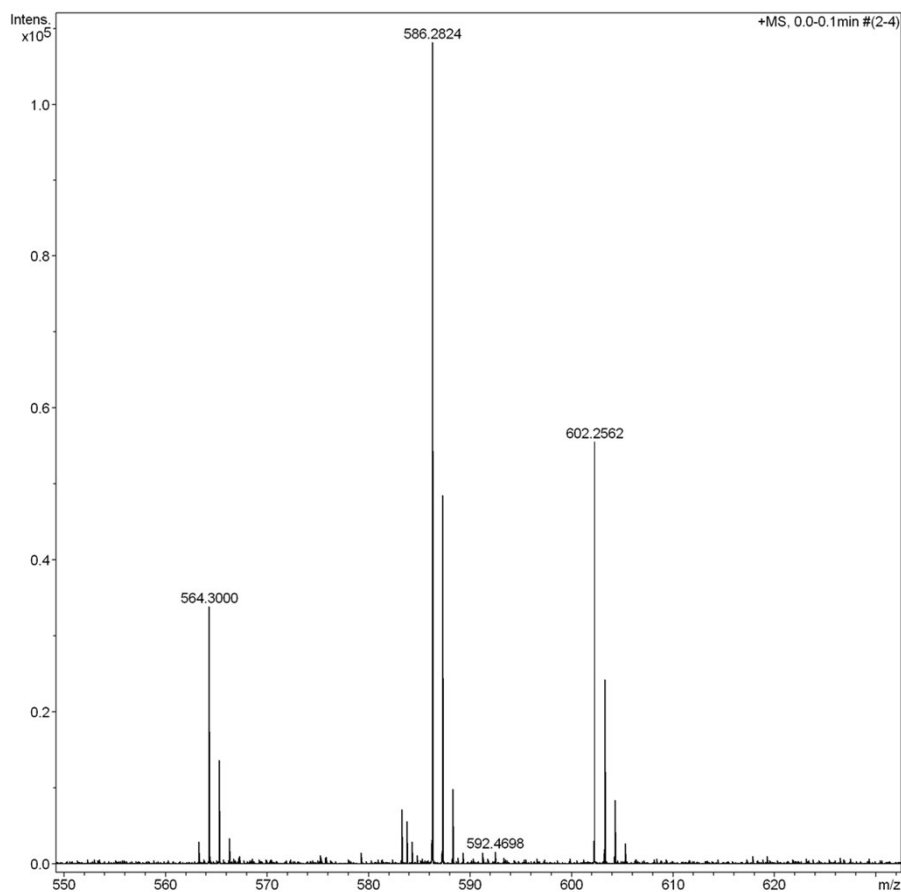
Fig. S6 HRMS spectrum of *t*Bu-OXD-*m*-L-TPA.



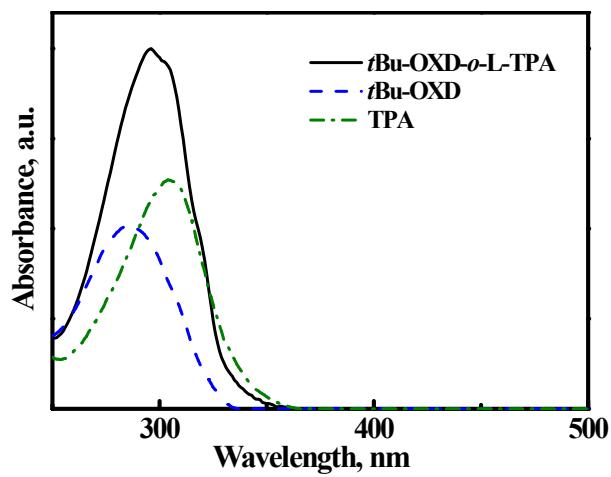
**Fig. S7**  $^1\text{H}$  NMR spectrum of *t*Bu-OXD-*p*-L-TPA in  $\text{CDCl}_3$ .



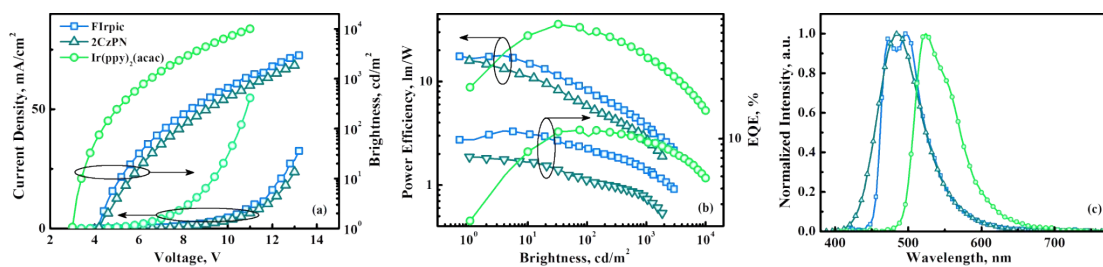
**Fig. S8**  $^{13}\text{C}$  NMR spectrum of *t*Bu-OXD-*p*-L-TPA in  $\text{CDCl}_3$ .



**Fig. S9** HRMS spectrum of *t*Bu-OXD-*p*-L-TPA.



**Fig. S10** UV-Vis absorption spectra of *t*Bu-OXD-*o*-L-TPA, *t*Bu-OXD, and TPA in dilute CH<sub>2</sub>Cl<sub>2</sub> solutions.



**Fig. S11** (a) Current density-voltage-luminance ( $J$ - $V$ - $L$ ) characteristics, (b) external quantum efficiency and power efficiency *versus* luminance characteristics, and (c) the normalized EL spectra for TADF blue, phosphorescent blue and green OLEDs based on *t*Bu-OXD-*m*-L-TPA.