

# Supporting Information

## High-efficiency and narrowband green thermally activated de-layed fluorescence organic light-emitting diodes based on two diverse boron multi-resonant skeletons

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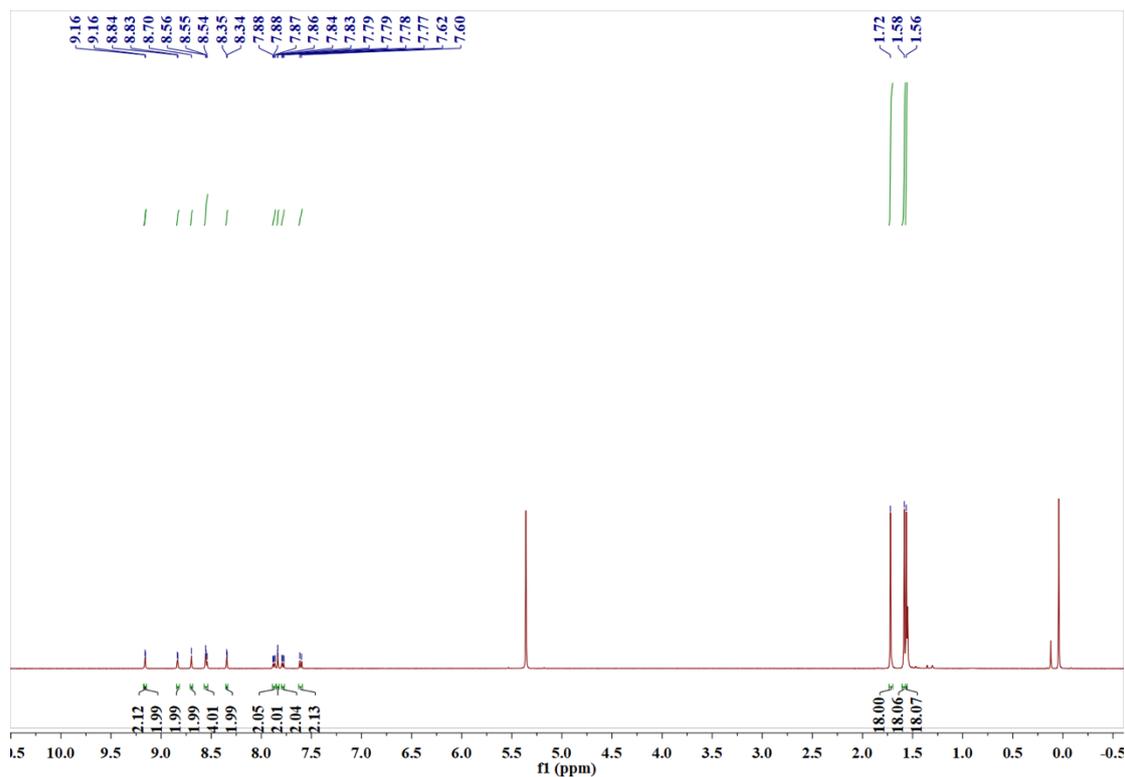
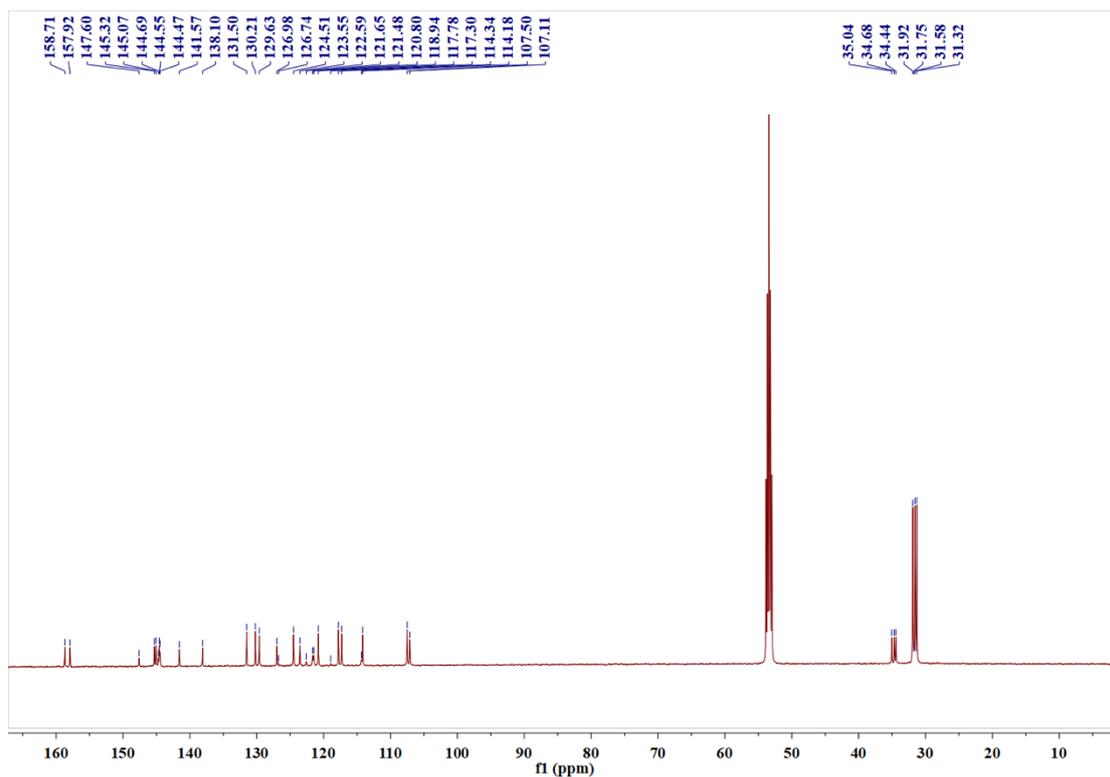
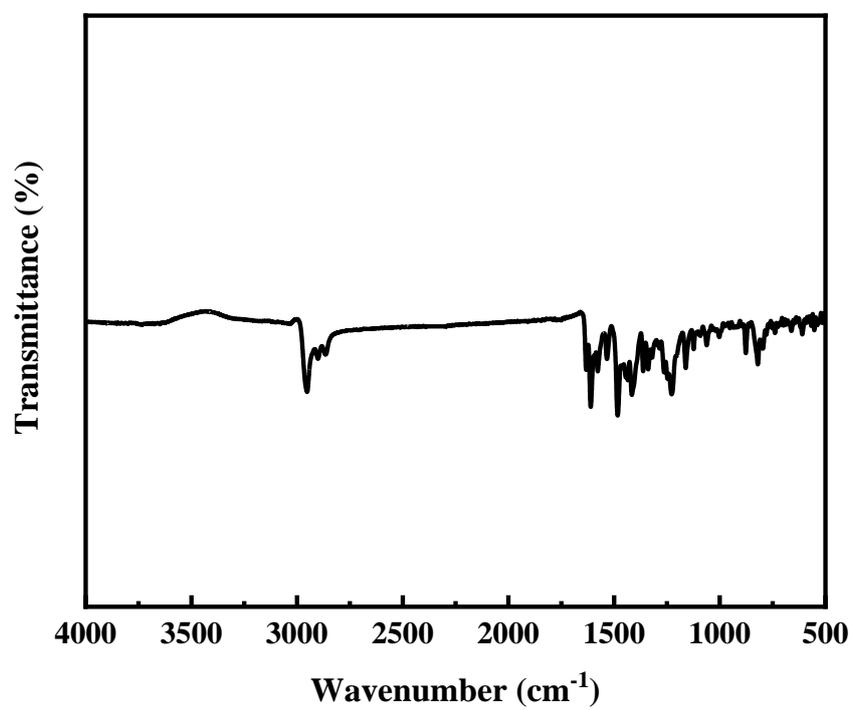


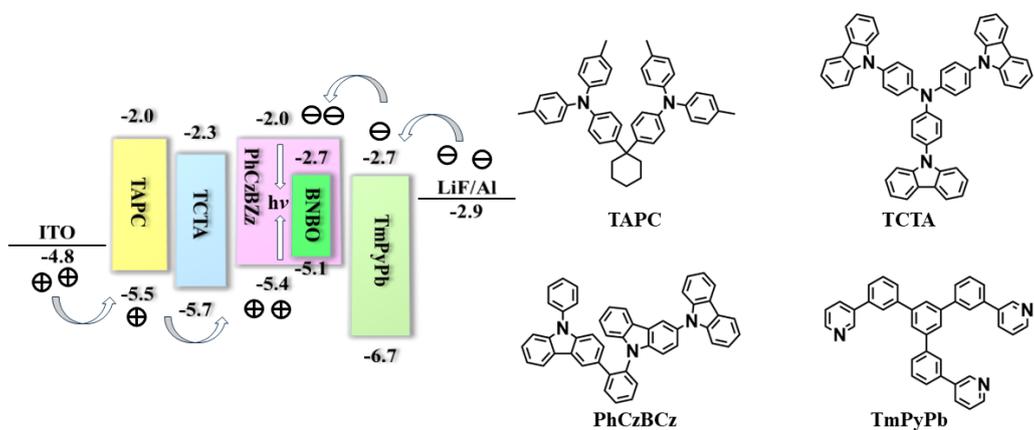
Figure S1. <sup>1</sup>H NMR spectrum BNBO (500 MHz, Methylene Chloride-*d*<sub>2</sub>)



**Figure S2.**  $^{13}\text{C}$  NMR spectrum BNBO (500 MHz, Methylene Chloride- $d_2$ )



**Figure S3.** Infrared spectrum of BNBO



**Figure S4.** Molecular structure, energy level structure and schematic diagram of electroluminescence mechanism for device