

Supporting Information

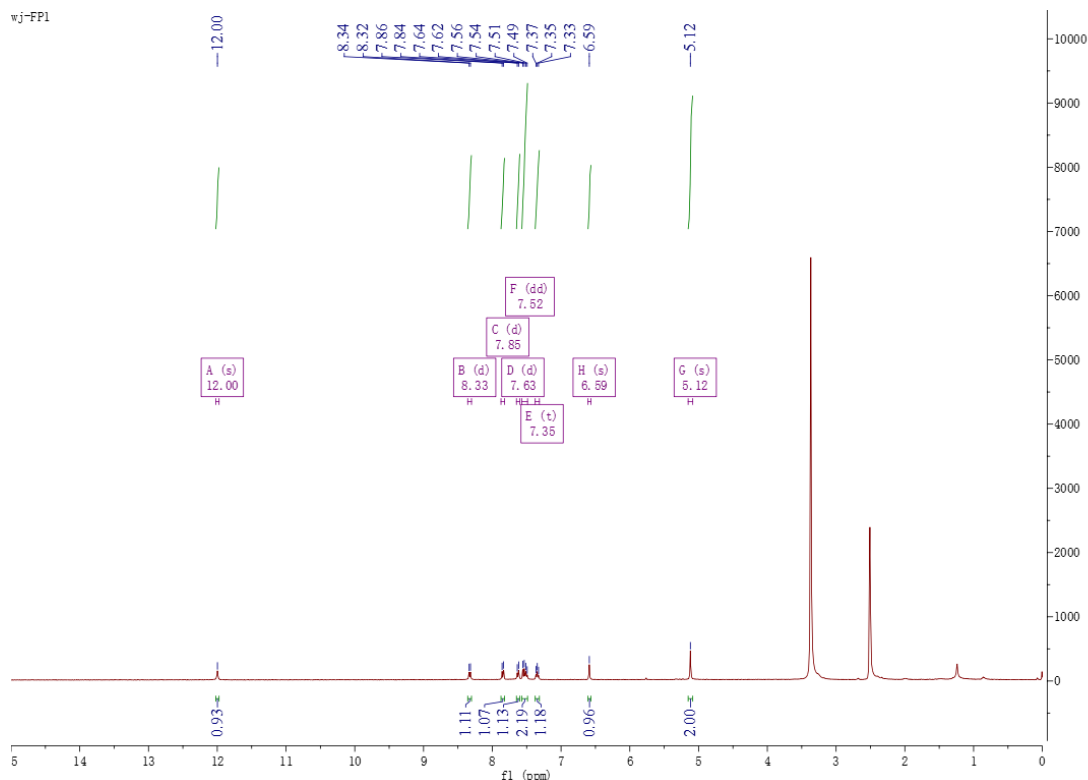
Design, Synthesis and Crystal Structure of a Novel Fluorescence Probe for Zn²⁺ Based on Pyrano[3,2-c] Carbazole

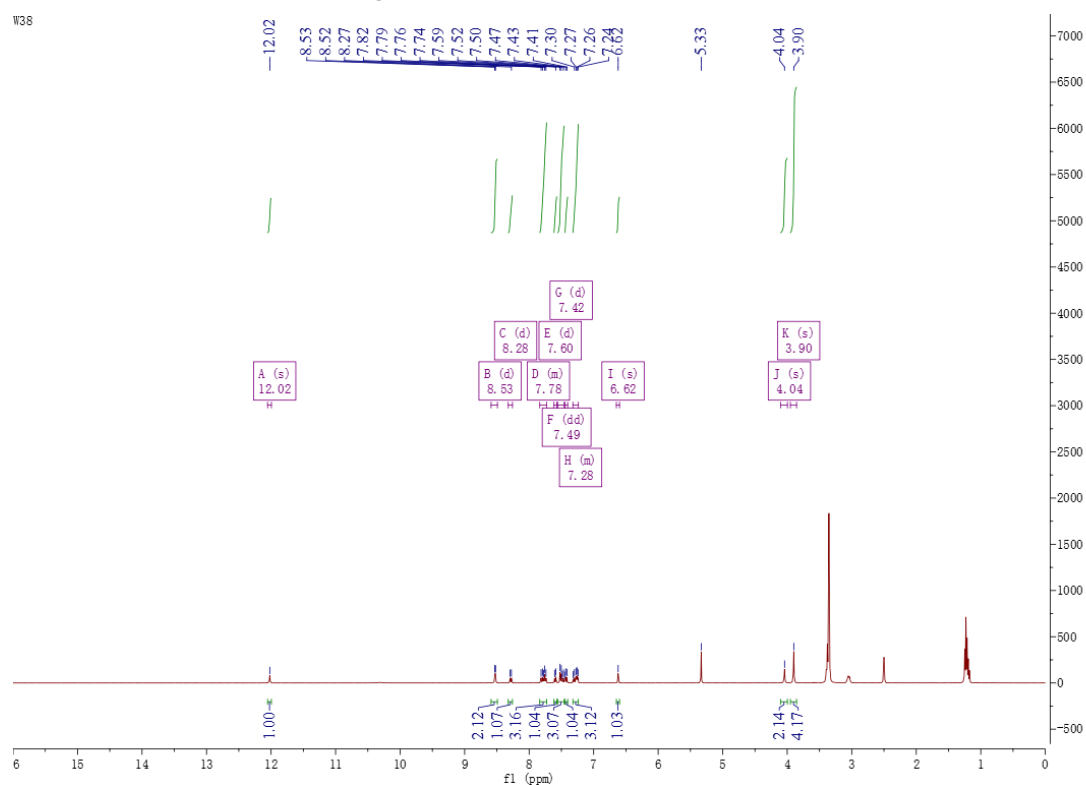
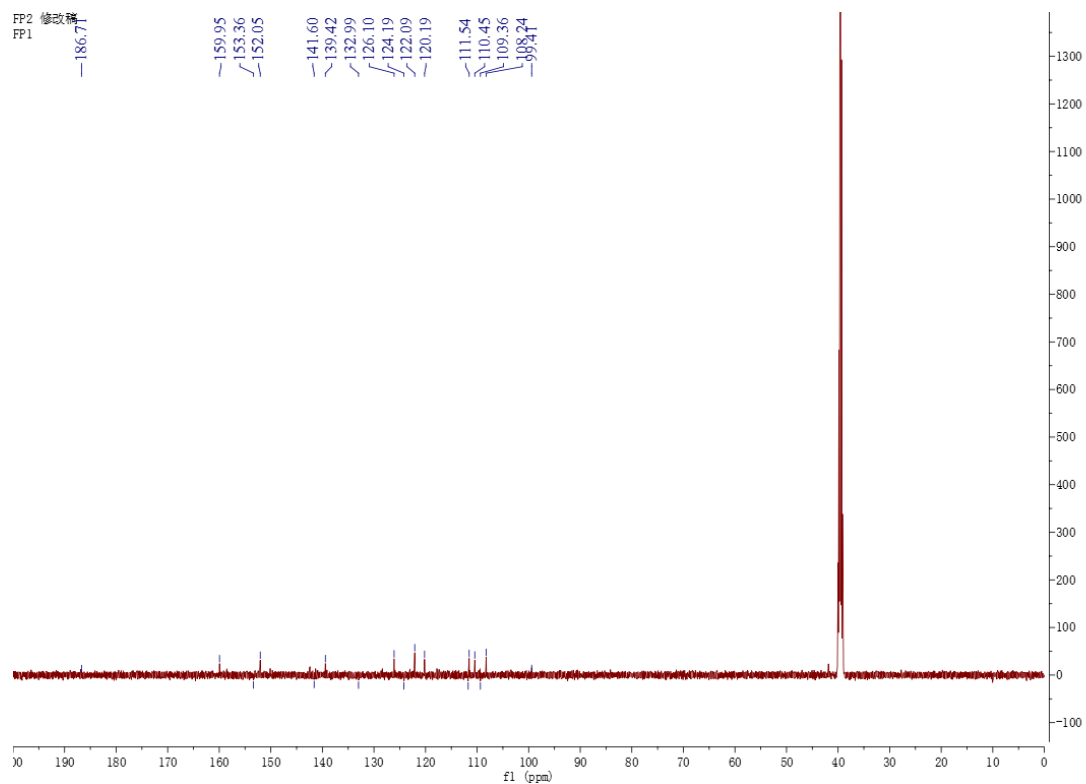
Zi-Yin Xie¹, Qing-Wen Fang², Shu-Zhen Xiao¹, Jie Wang¹, Ping Lin³, Chun-Mei Guo⁴, Hui-Hua Cao⁵, Zhong-Ping Yin^{3*}, Li-Hong Dong^{6*}, Da-Yong Peng^{1*}

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1.NMR spectra for probe characterization





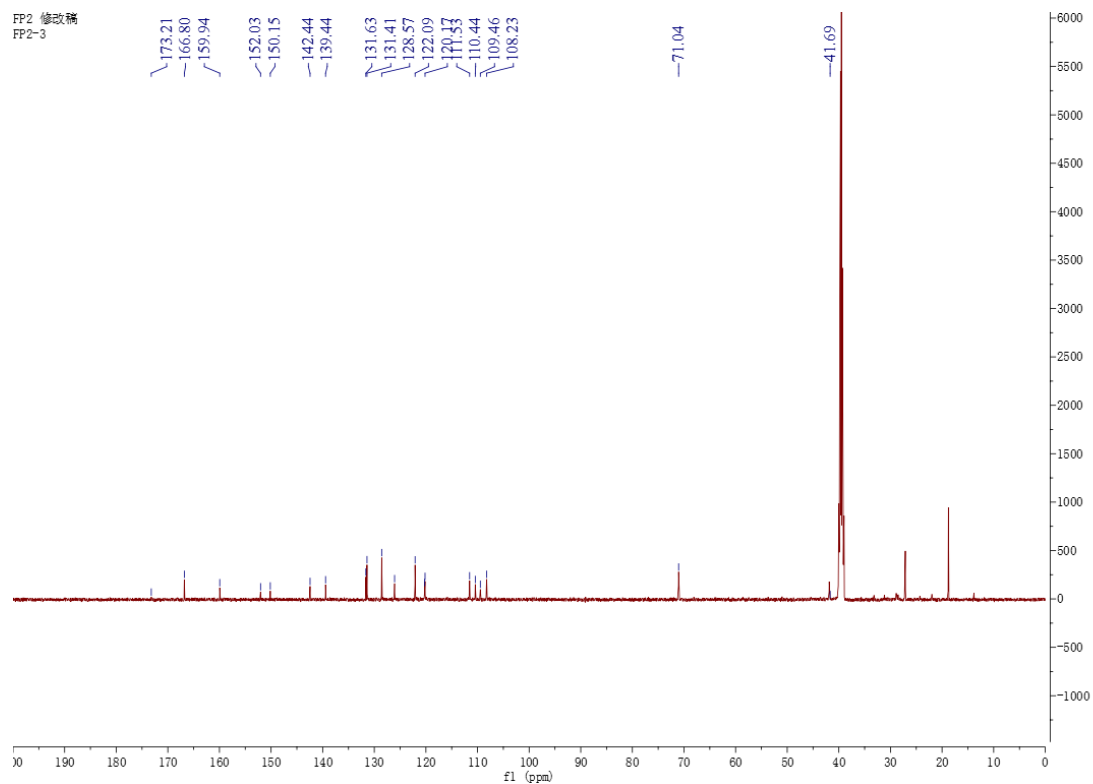


Figure S4 ^{13}C NMR for FP2 in $\text{DMSO-}d_6$

2. FT-IR spectra for probe characterization

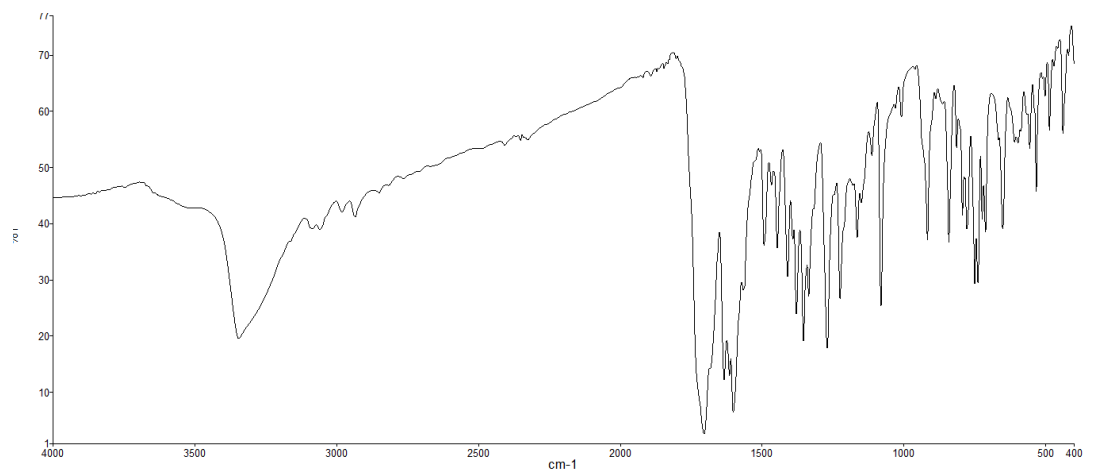


Figure S5 FT-IR for FP1

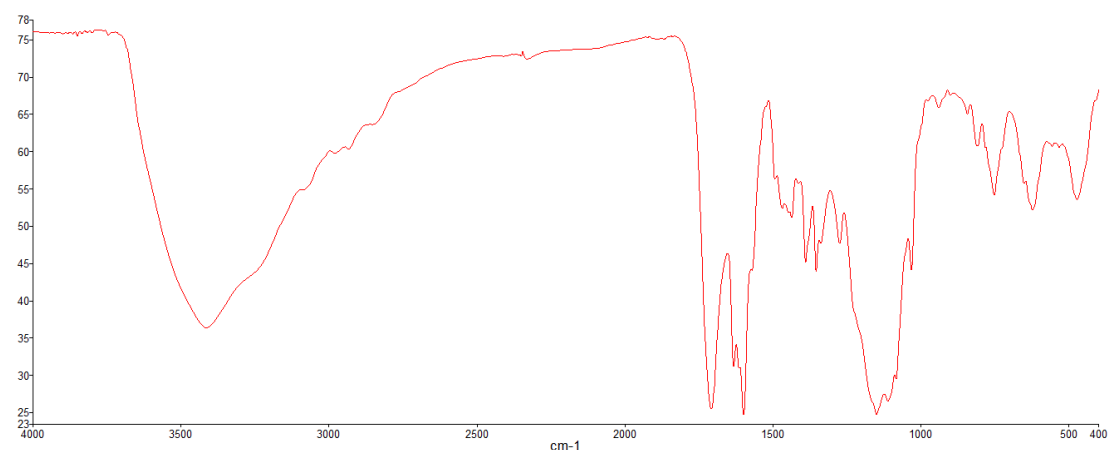


Figure S6 FT-IR for FP2

3.HRMS spectra for probe characterization

C₁₆H₁₀ClNO₂ +H: C₁₆ H₉ Cl N₁ O₂ pa Chrg -1

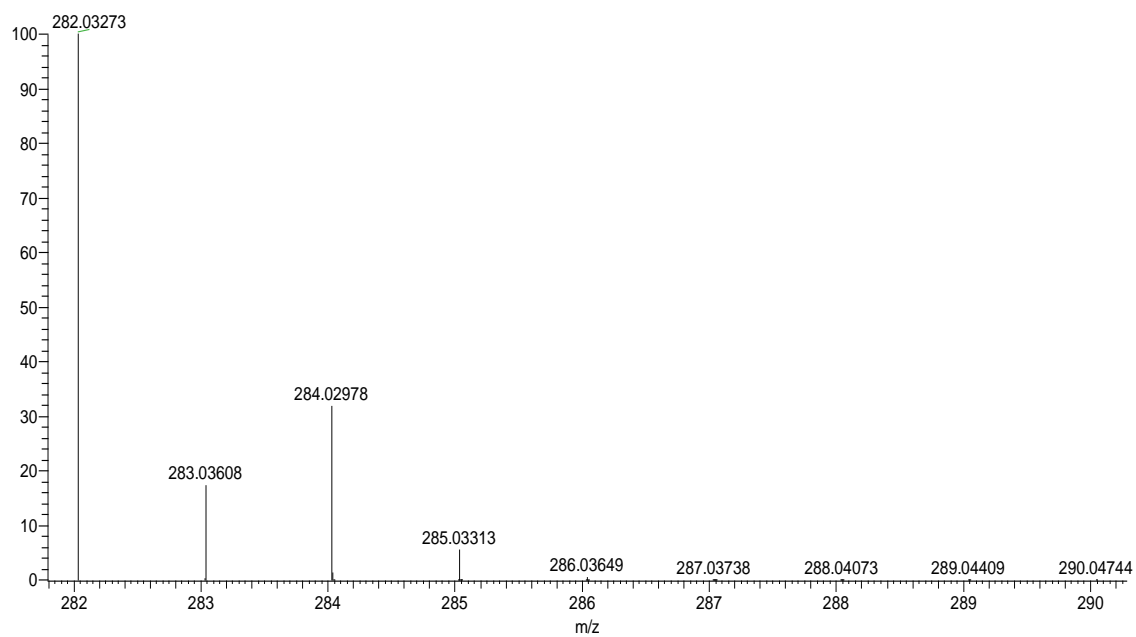


Figure S7 HRMS for FP1

C₂₈H₂₂N₄O₂ +H: C₂₈H₂₃N₄O₂ pa Chrg 1

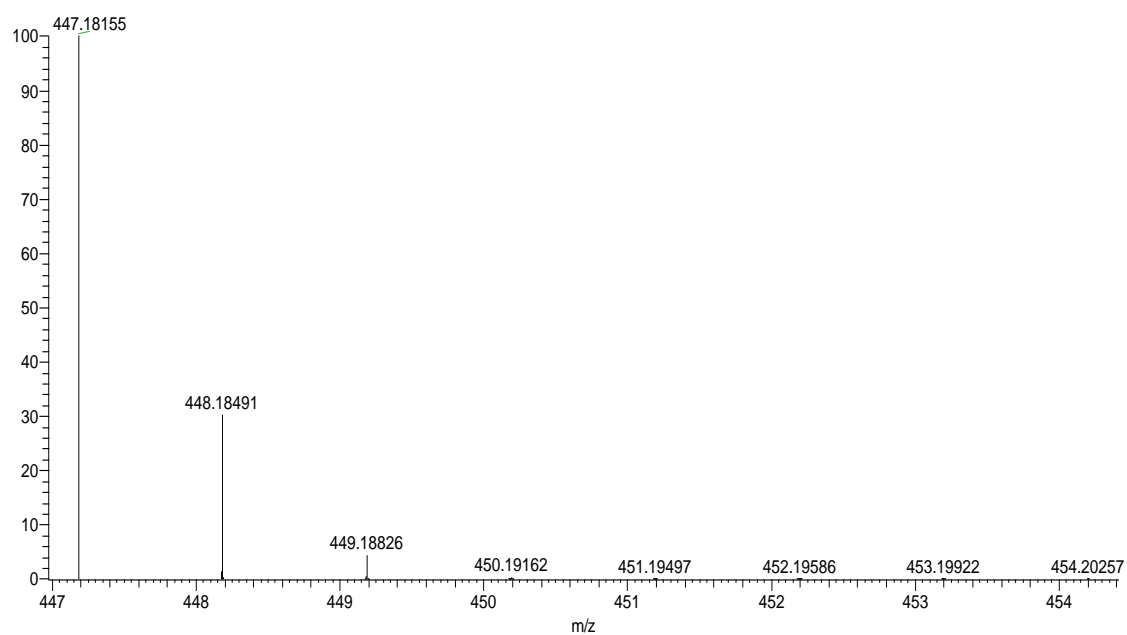


Figure S8 HRMS for FP2