

Heterocyclic Iodoniums as Versatile Synthons to Approach Diversified Polycyclic Heteroarenes

Daqian Zhu,^{ab} Zhouming Wu,^a Liyun Liang,^a Yameng Sun,^a Bingling Luo,^a Peng Huang,^a Shijun Wen^{*a}

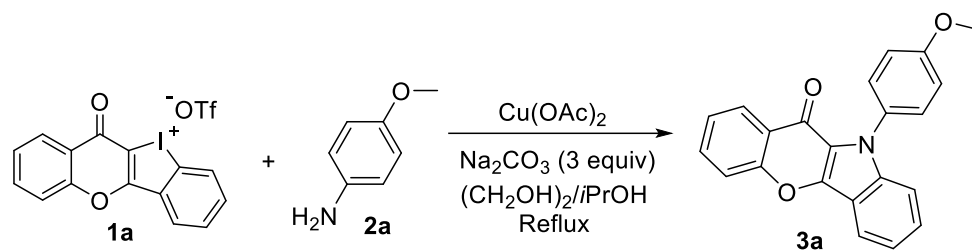
^aState Key Laboratory of Oncology in South China, Collaborative Innovation Center for Cancer Medicine, Sun Yat-sen University Cancer Center, 651 Dongfeng East Road, Guangzhou 510060.

^bSchool of pharmacy, Guangdong Pharmaceutical University, 280 Waihuan East Road, Guangzhou 510006, China

Contents

Studies on the reaction of 1a and <i>p</i> -anisidine.....	S1
NMR Spectra	S2

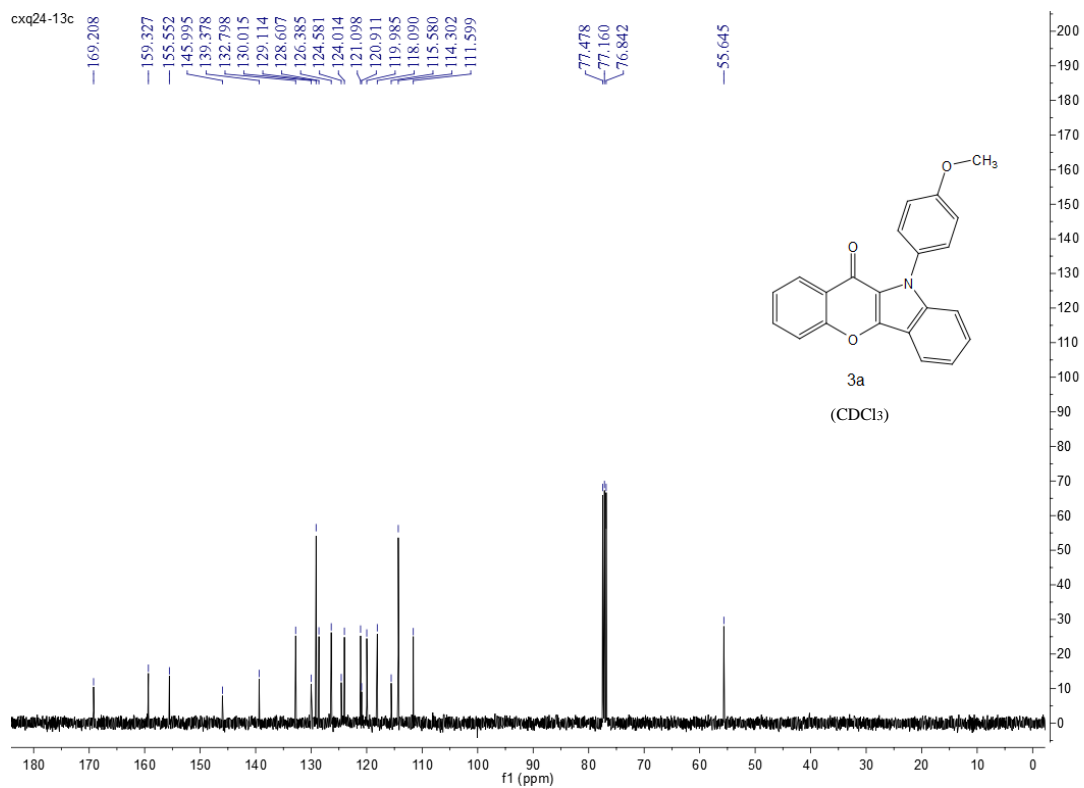
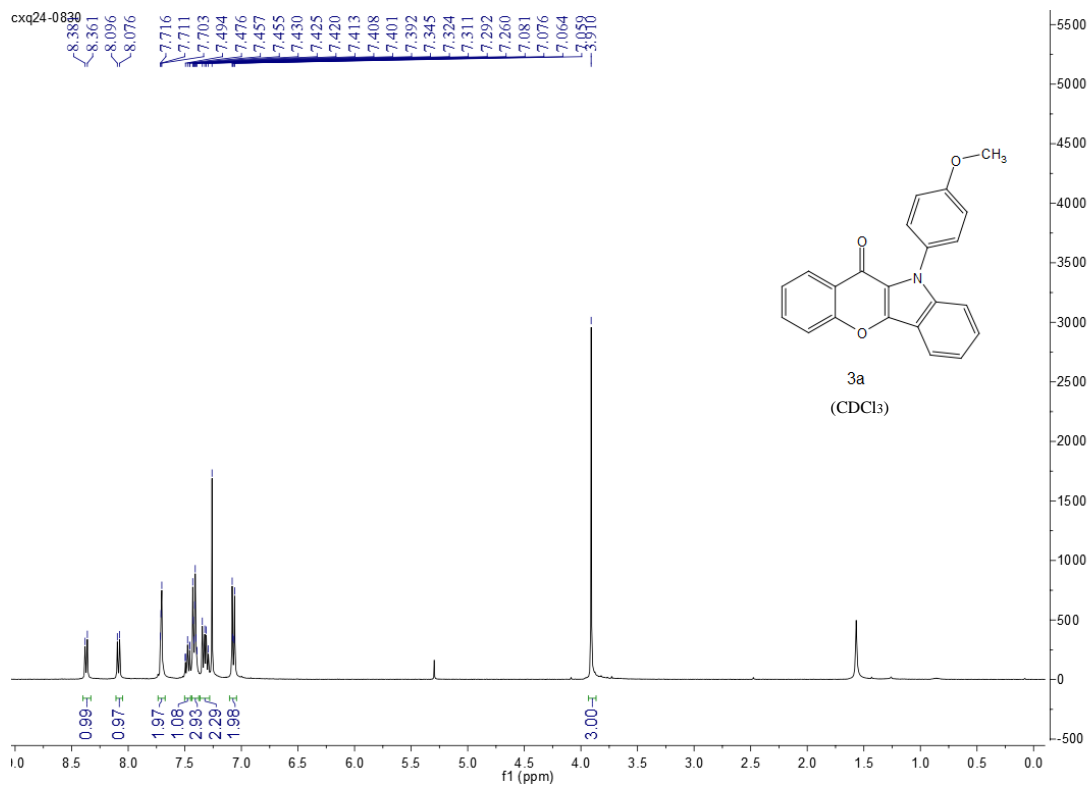
Table S1. Studies on the reaction of **1a** and *p*-anisidine

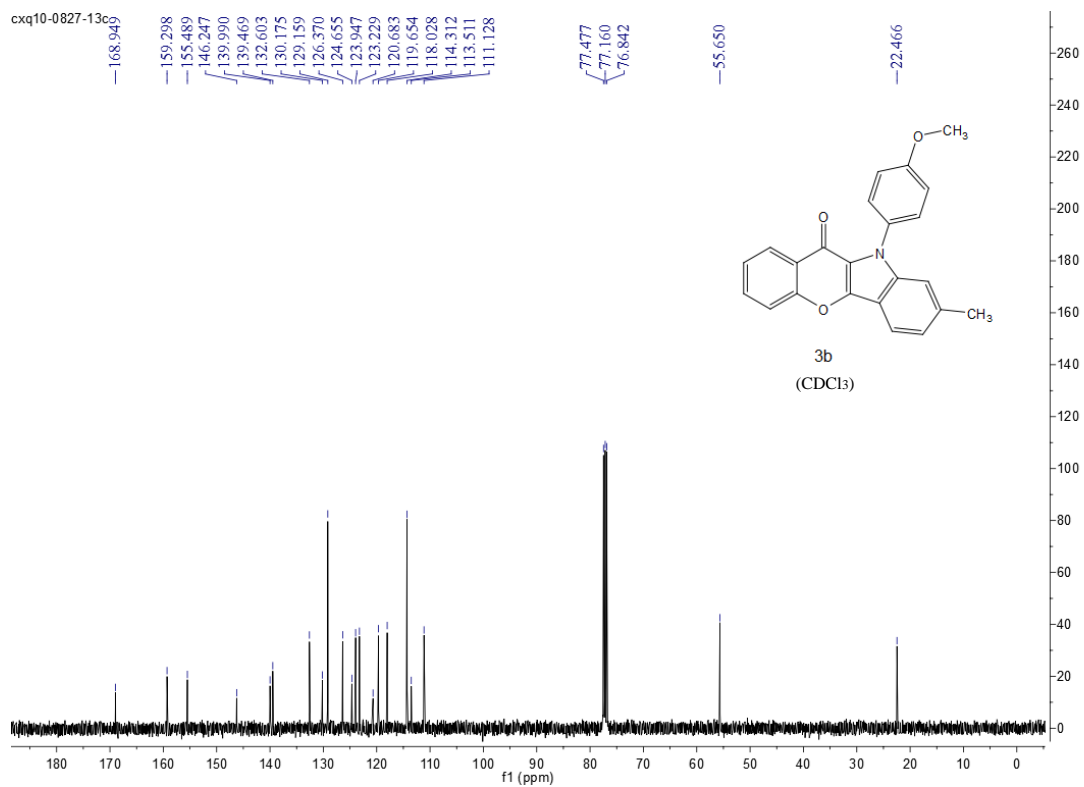
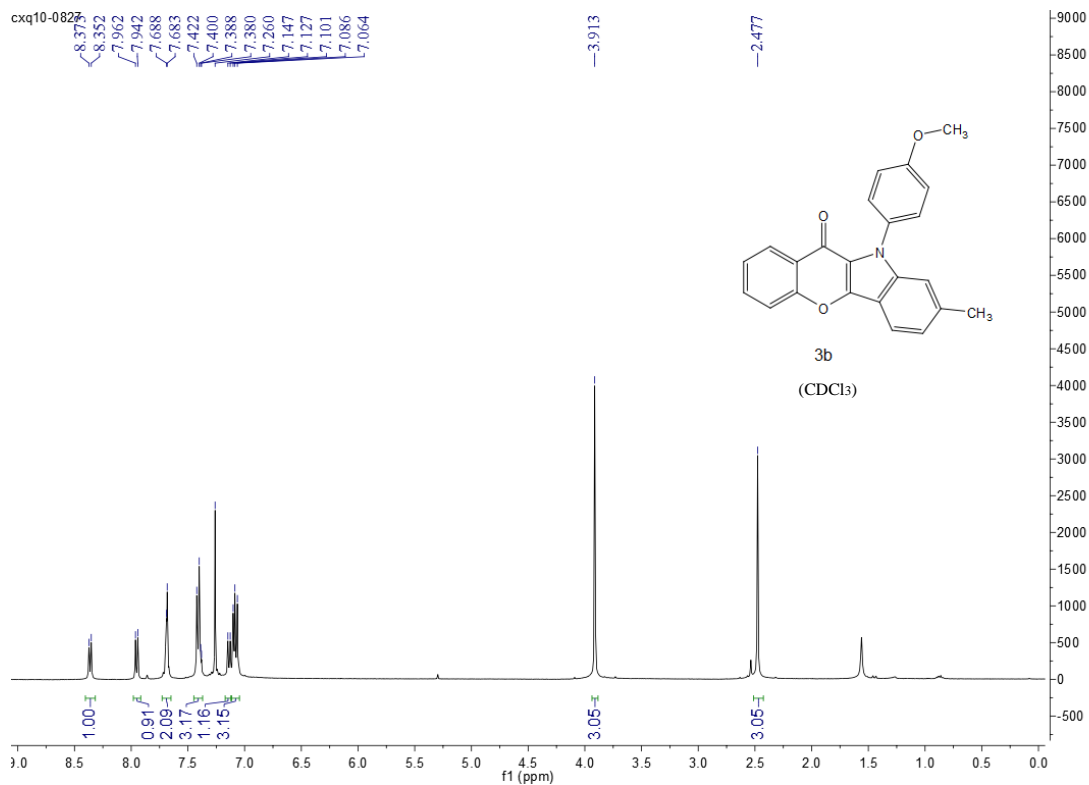


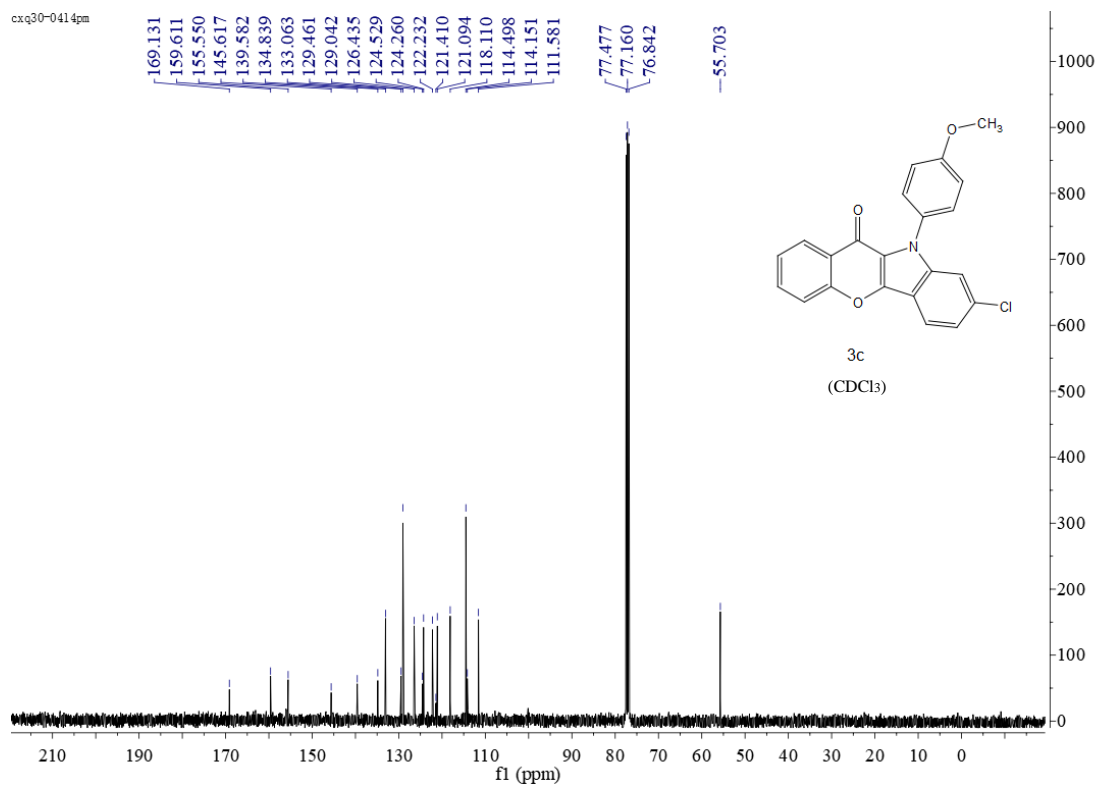
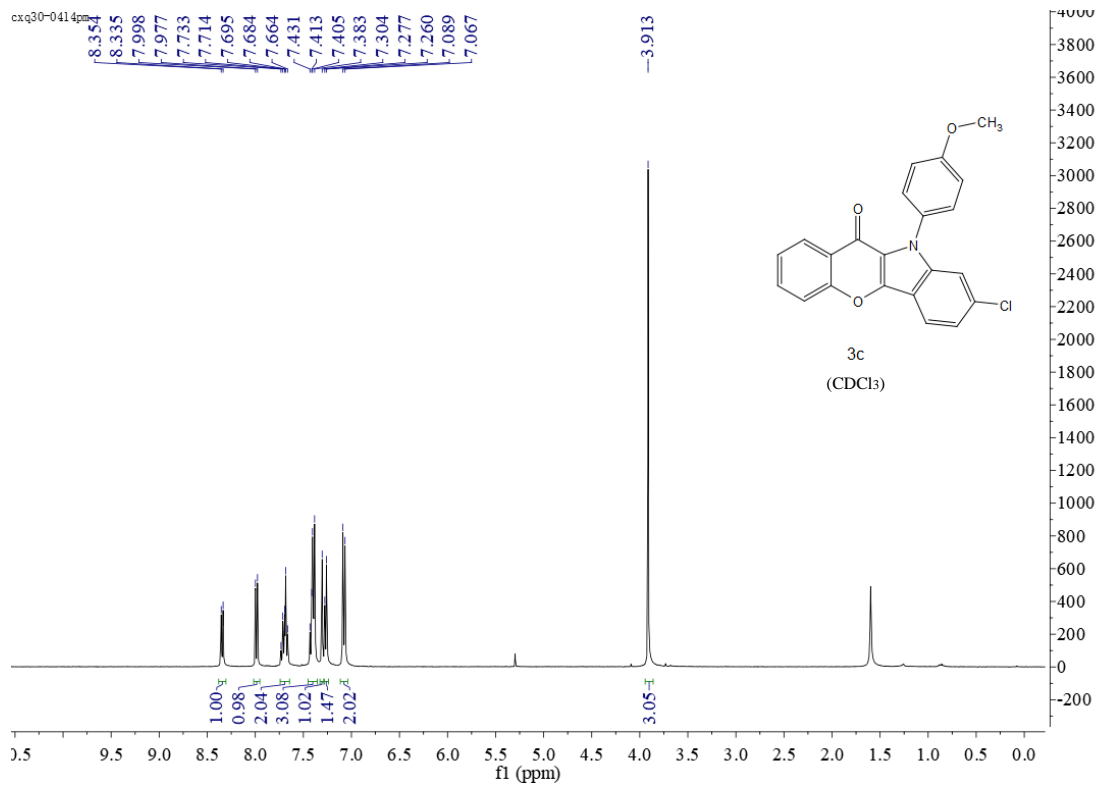
Entry	2a (equiv)	$\text{Cu}(\text{OAc})_2$ (equiv)	Yield (%)
1	1.5	0.2	32
2	2.5	0.2	86
3	3	0.2	87
4	4	0.2	90
5	2.5	0.1	84

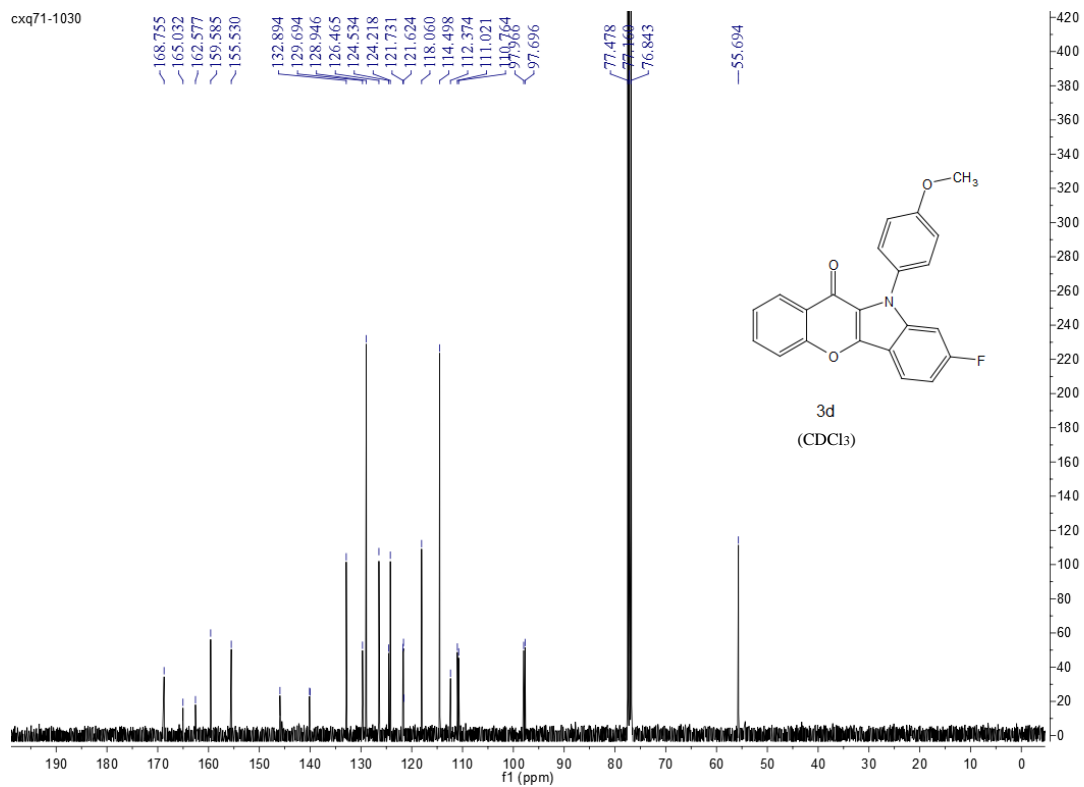
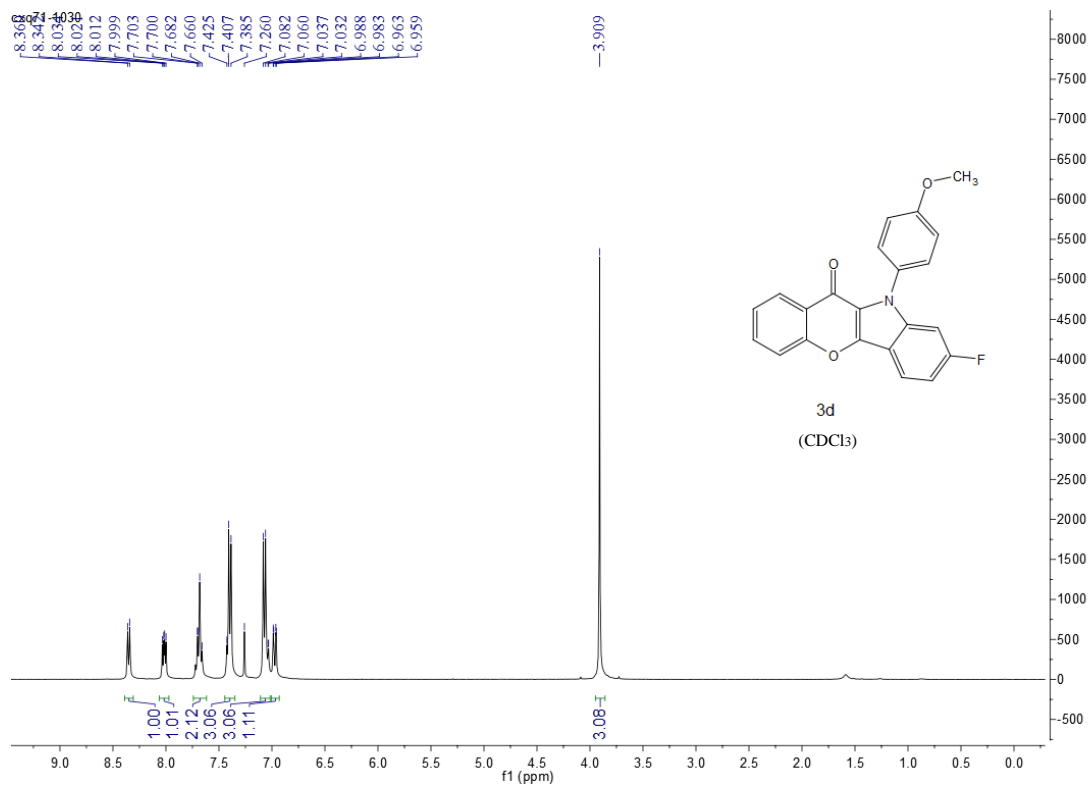
Synthesize heterocycle-fused indoles with heterocyclic iodonium **1a** and *p*-anisidine. Reaction conditions: **1a** (0.1 mmol), *p*-anisidine (2.5 equiv), *i*-PrOH/ $(\text{CH}_2\text{OH})_2$ (0.9/0.1mL), refluxing, Ar, 16 h.

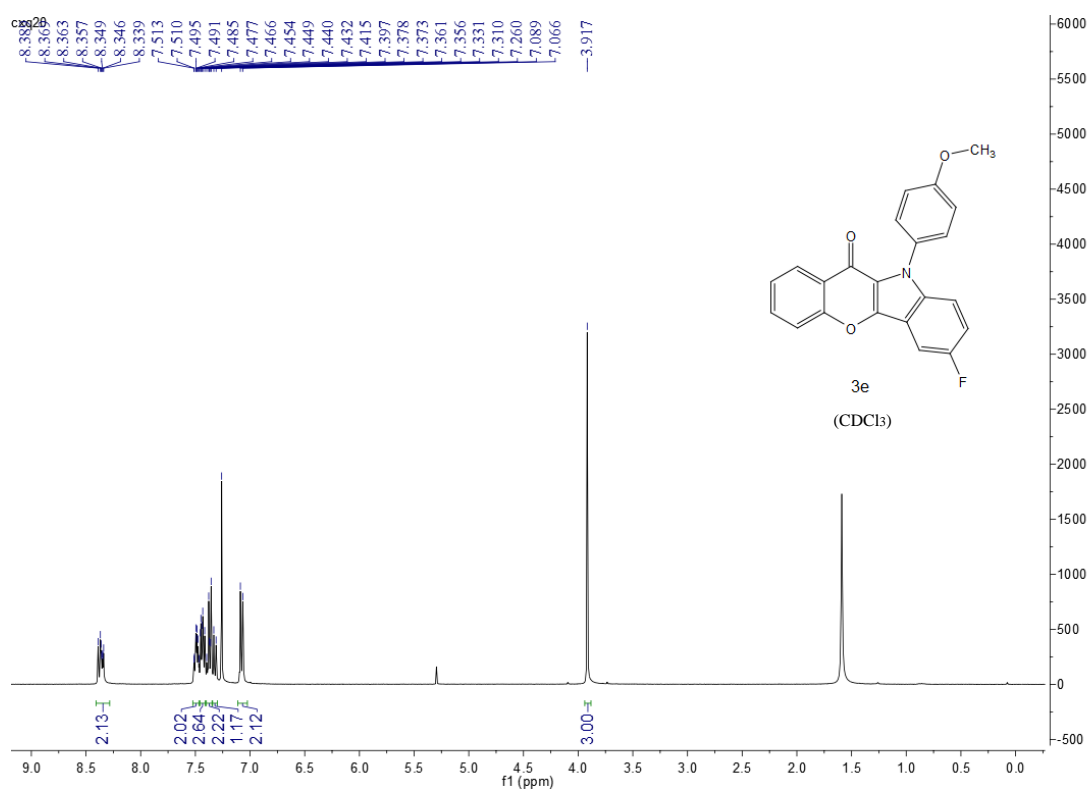
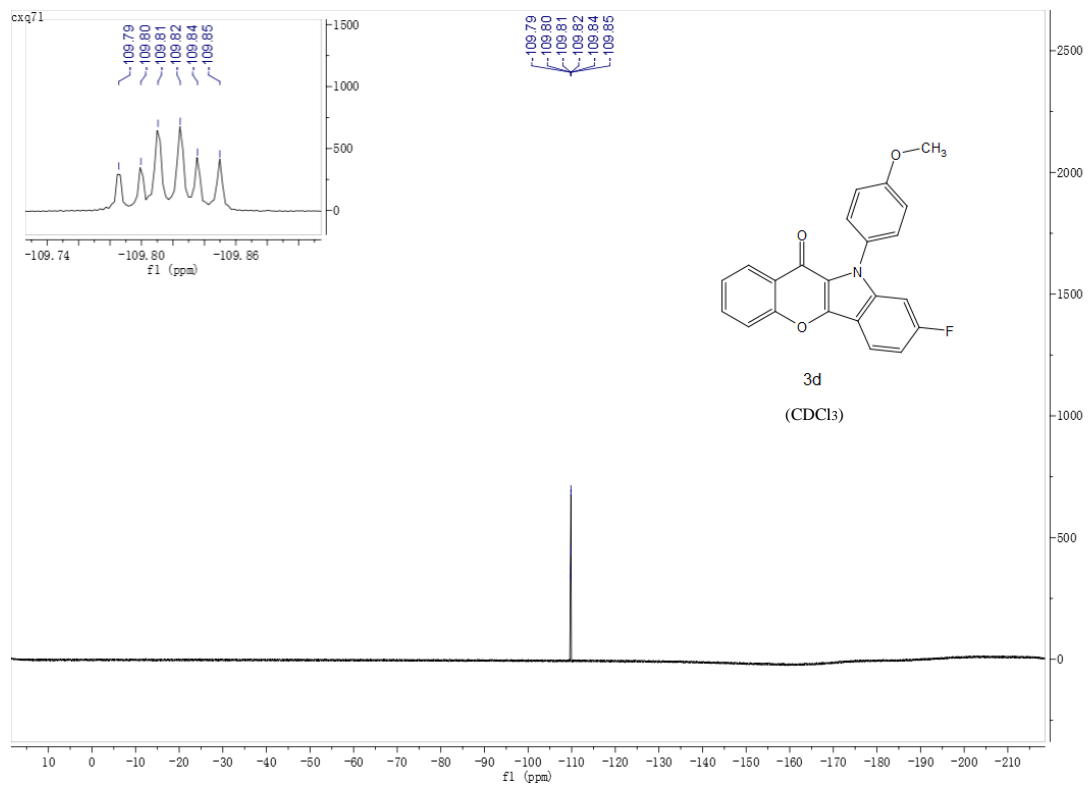
NMR Spectra

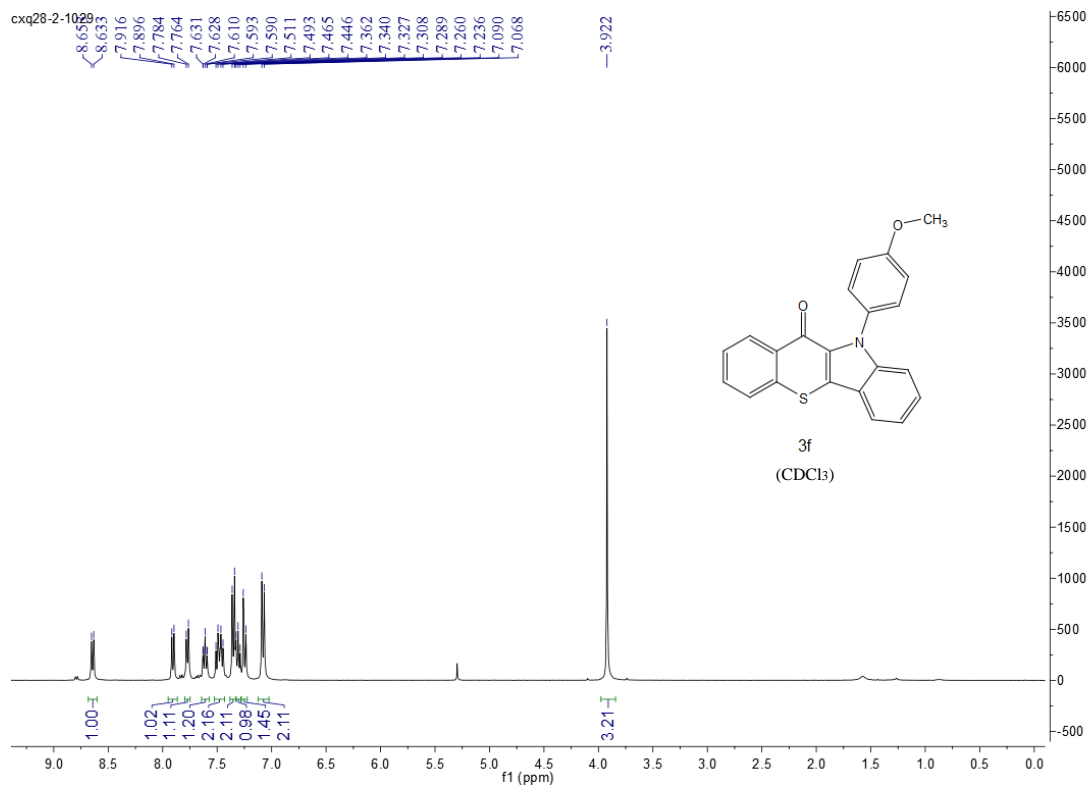
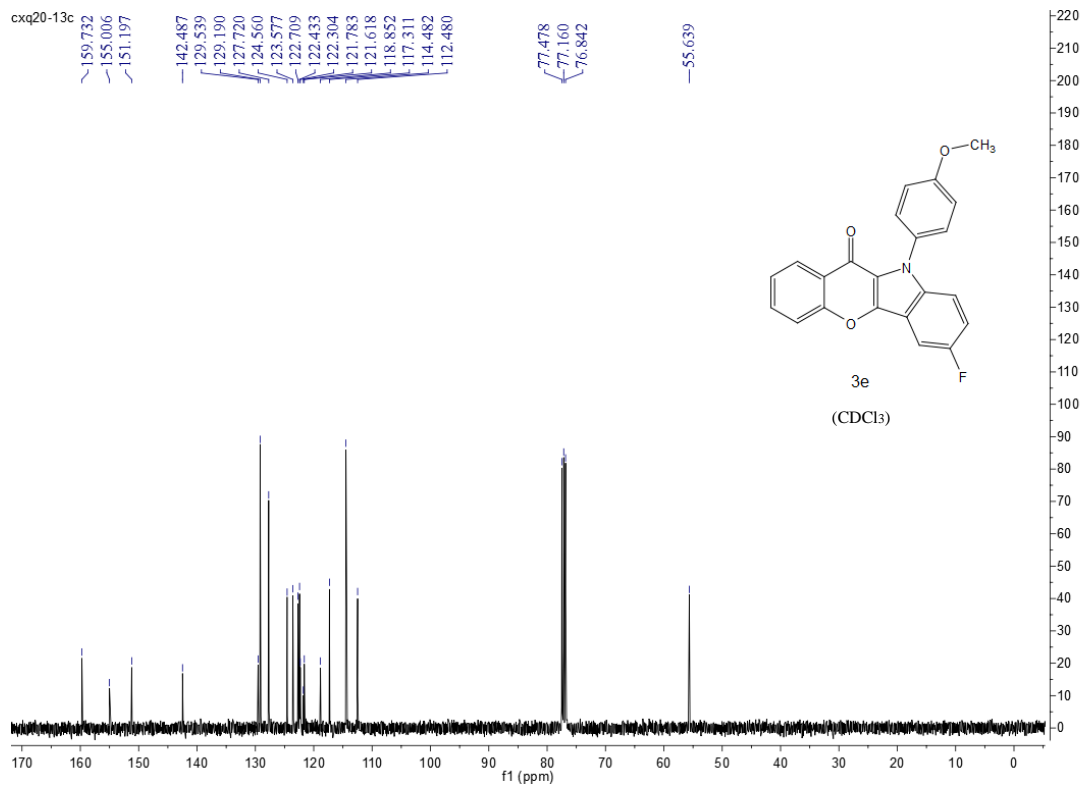


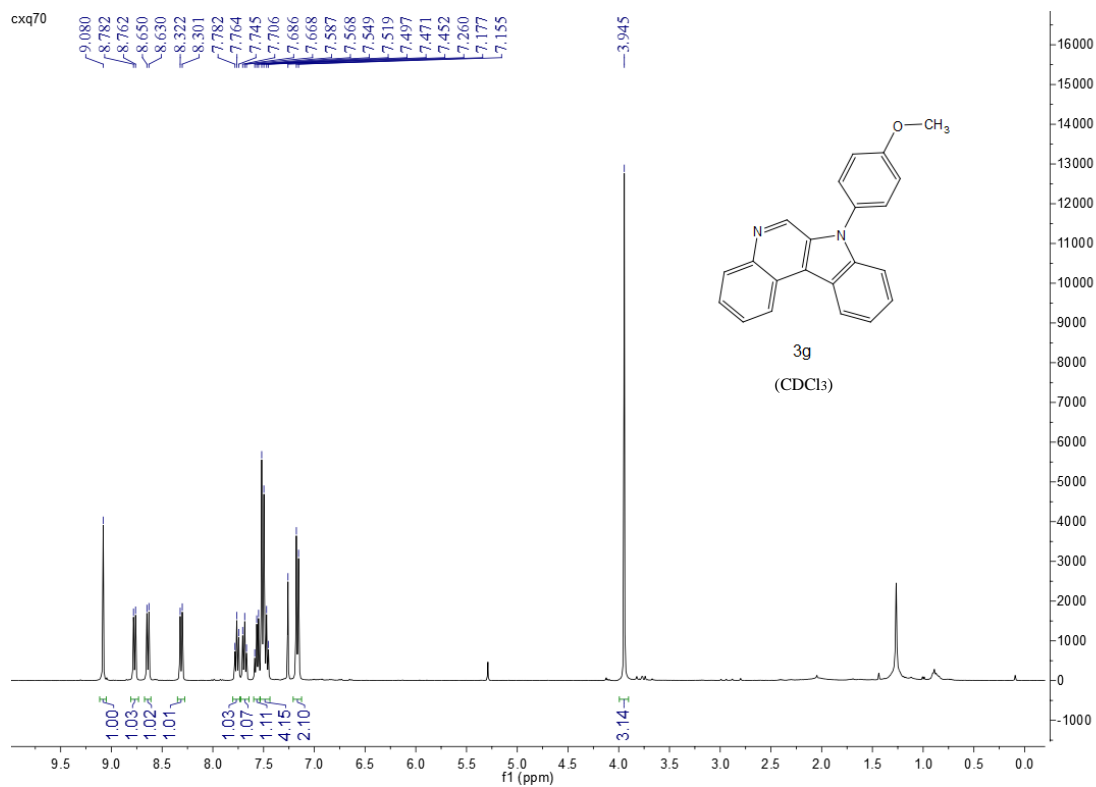
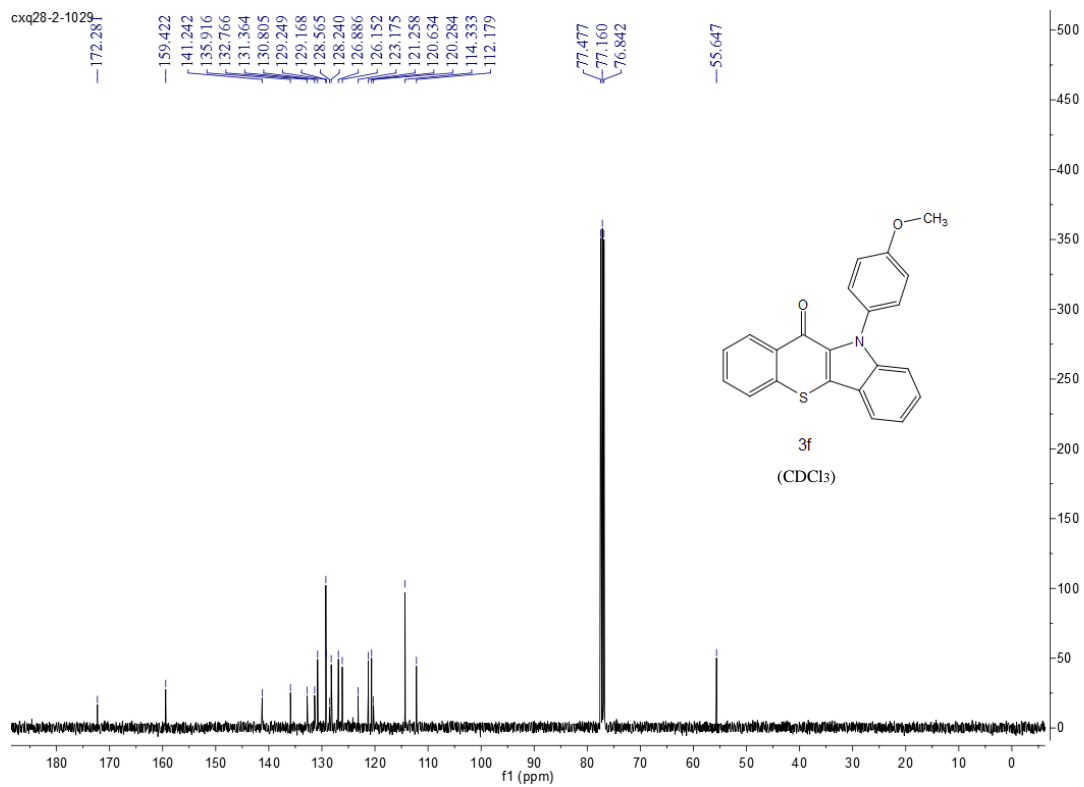


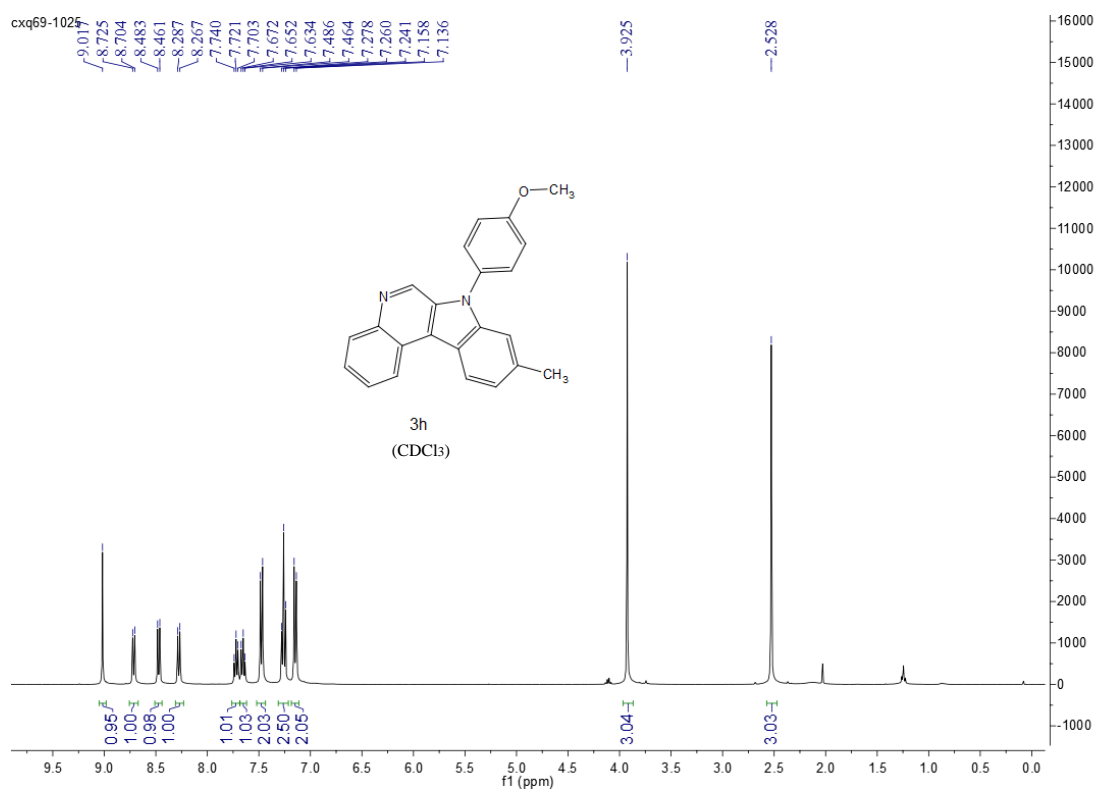
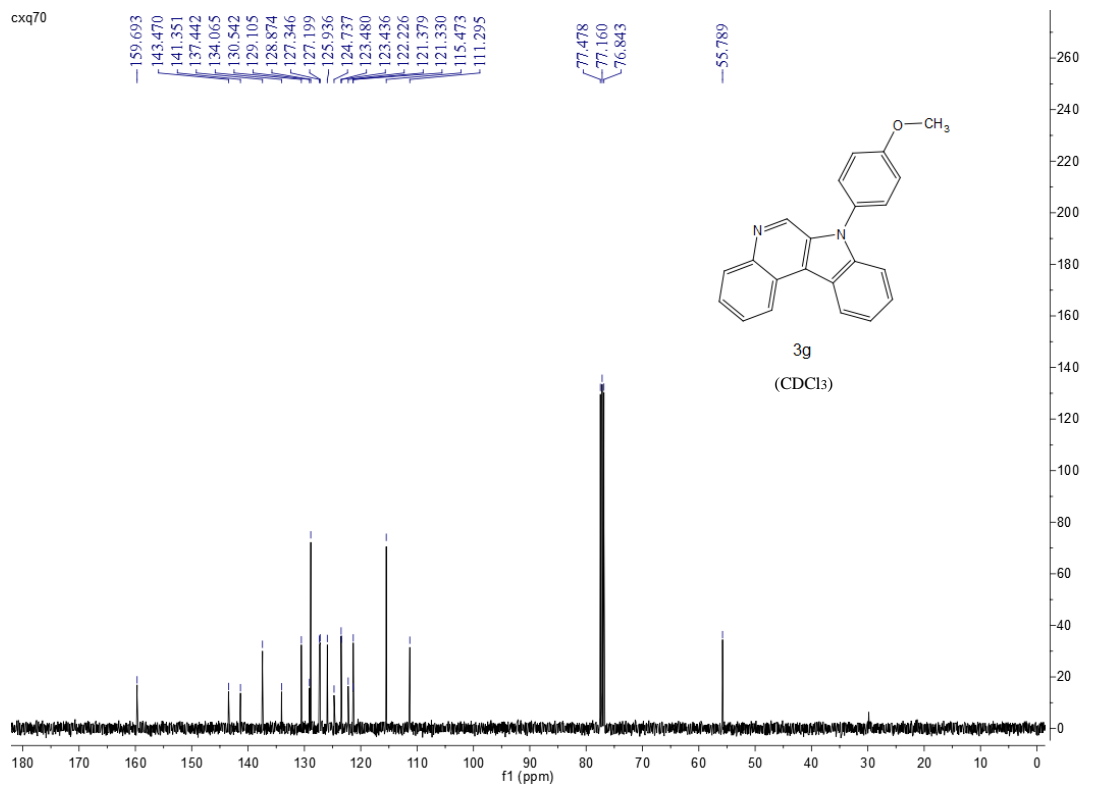


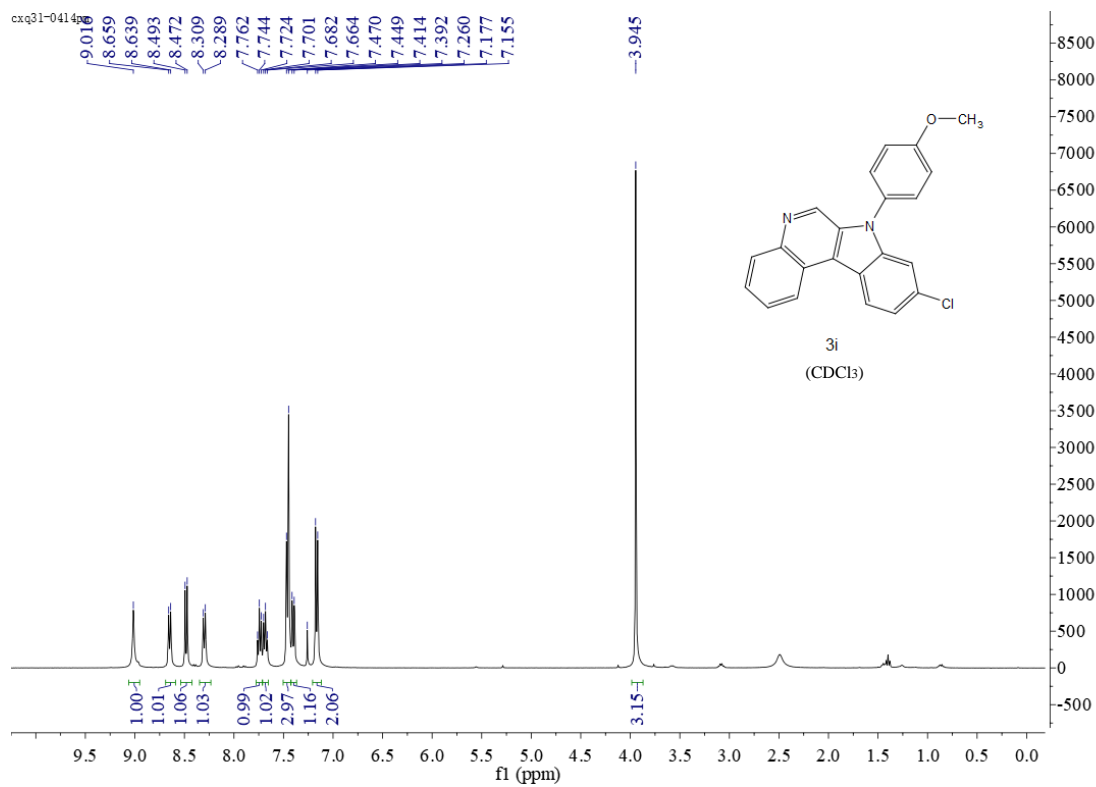
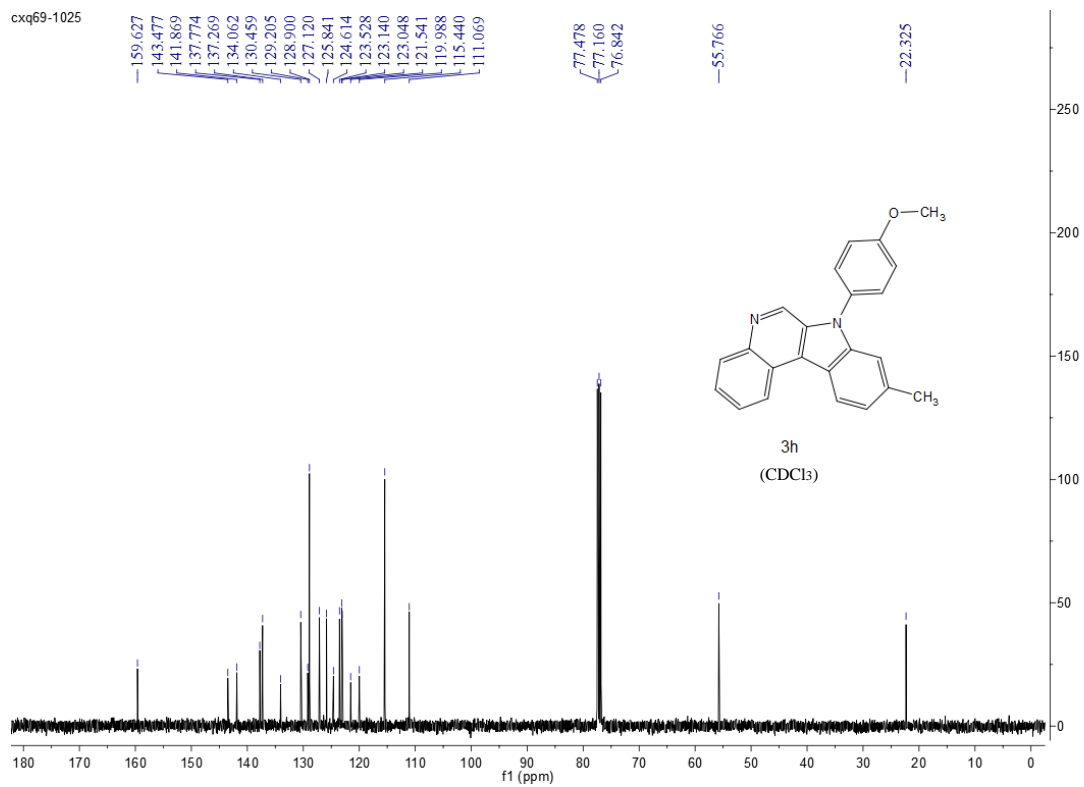


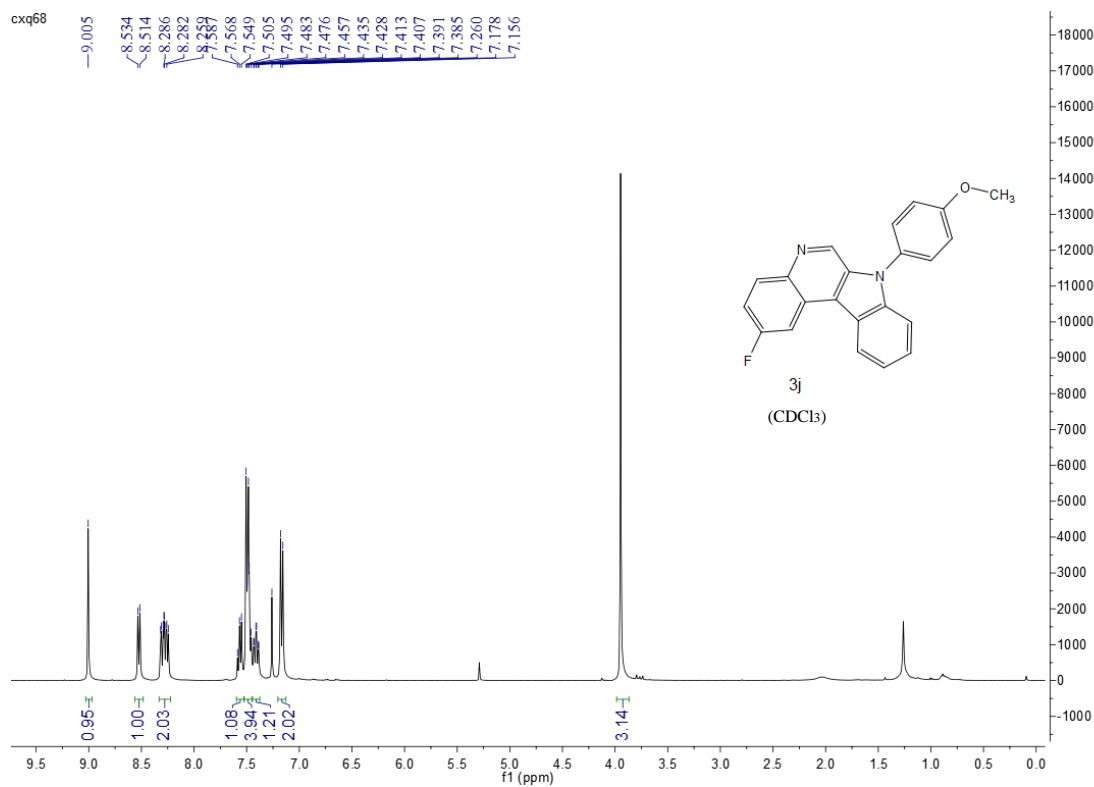
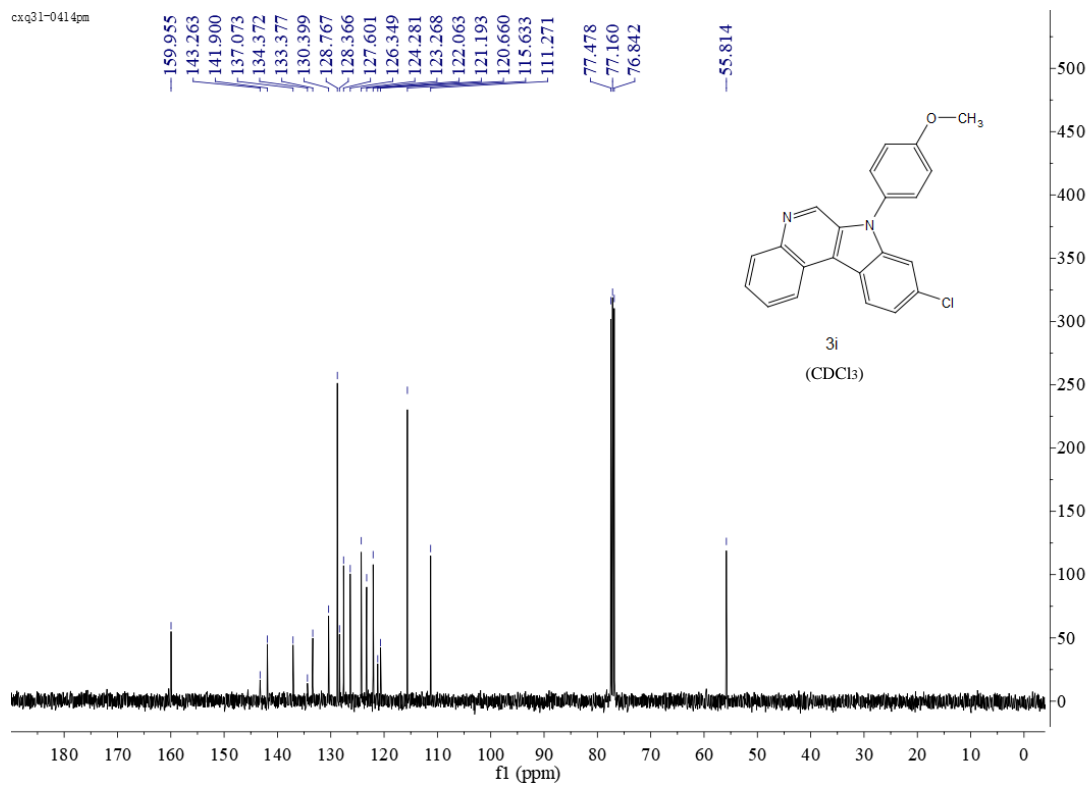


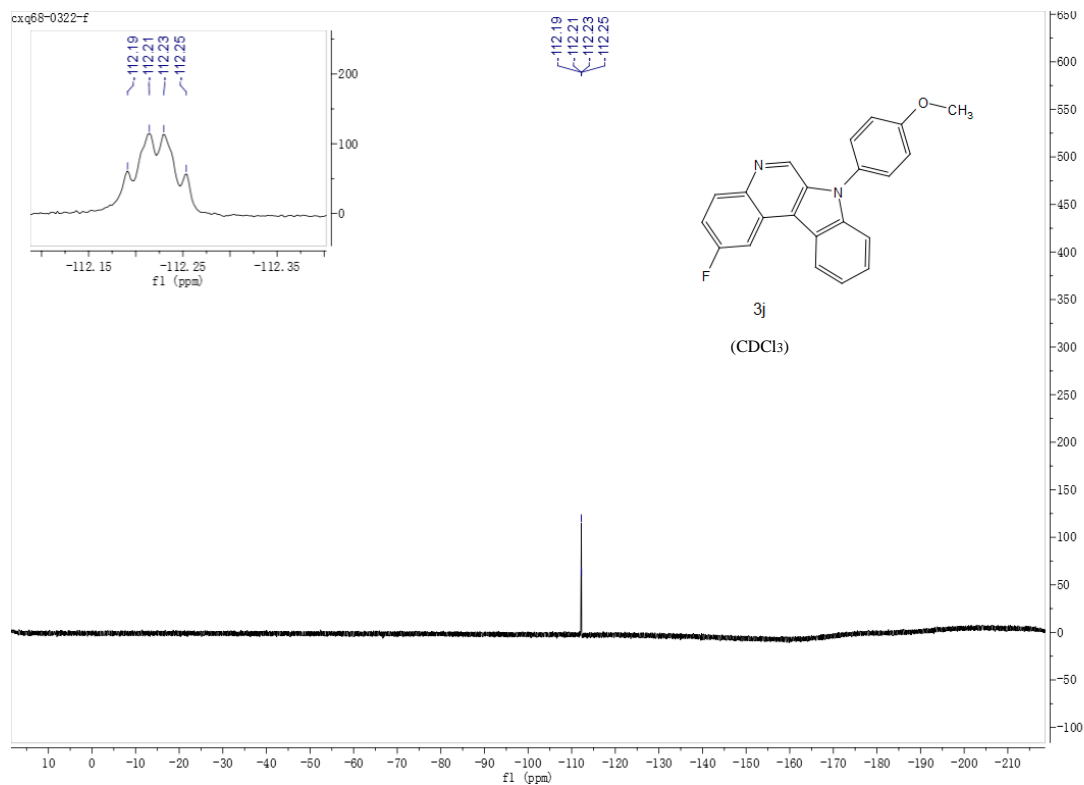
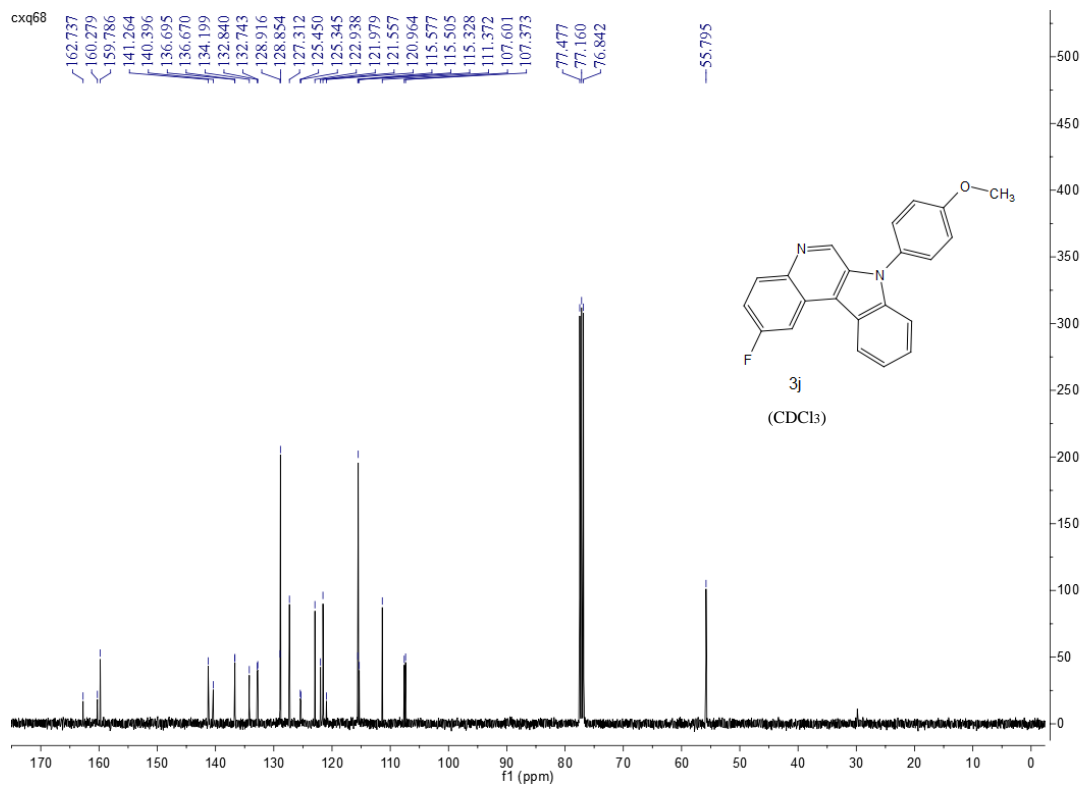


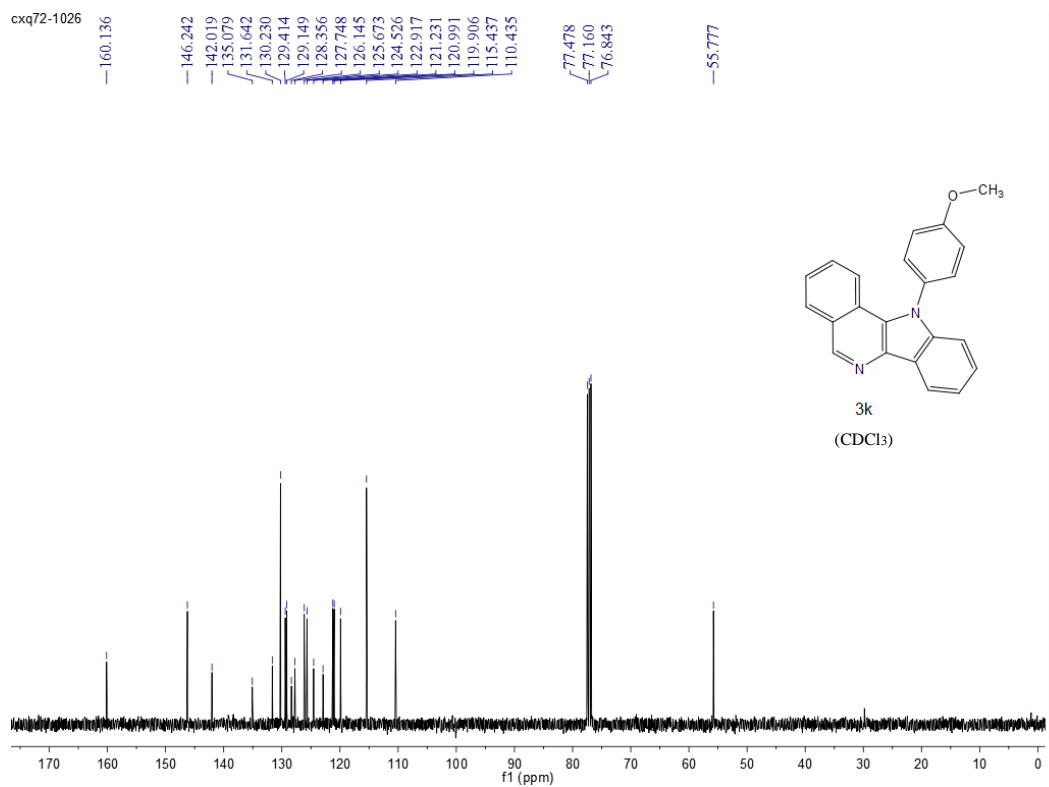
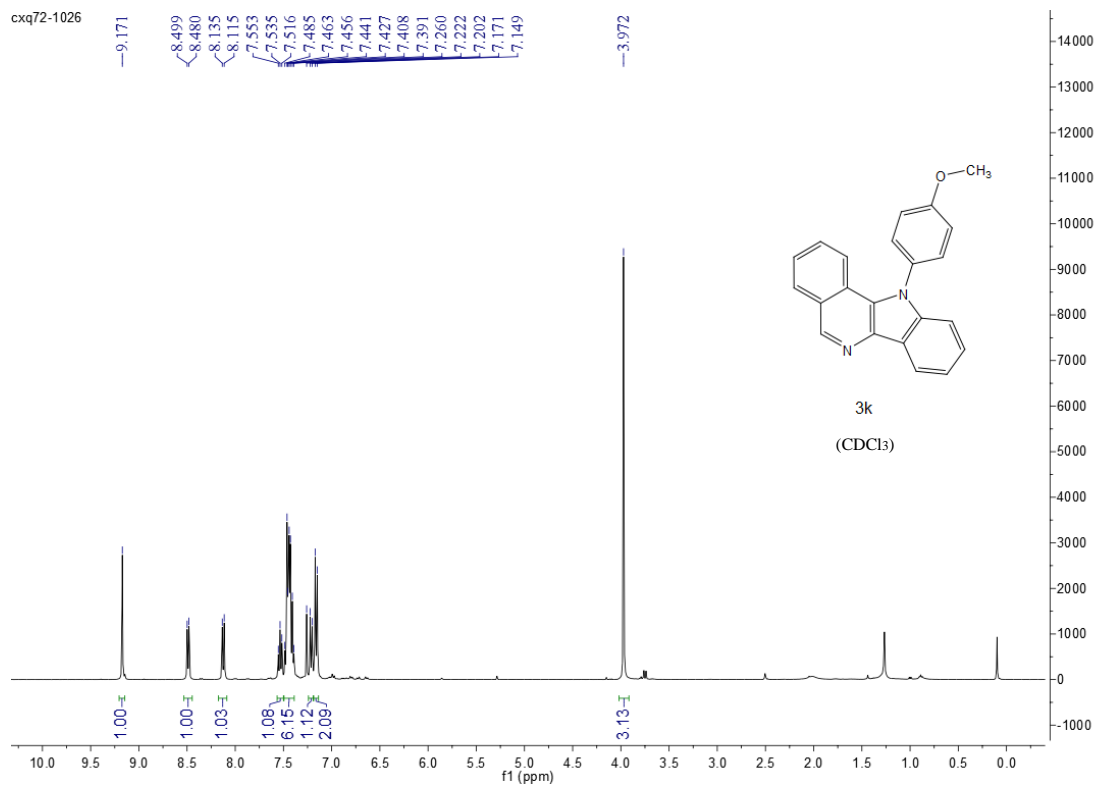


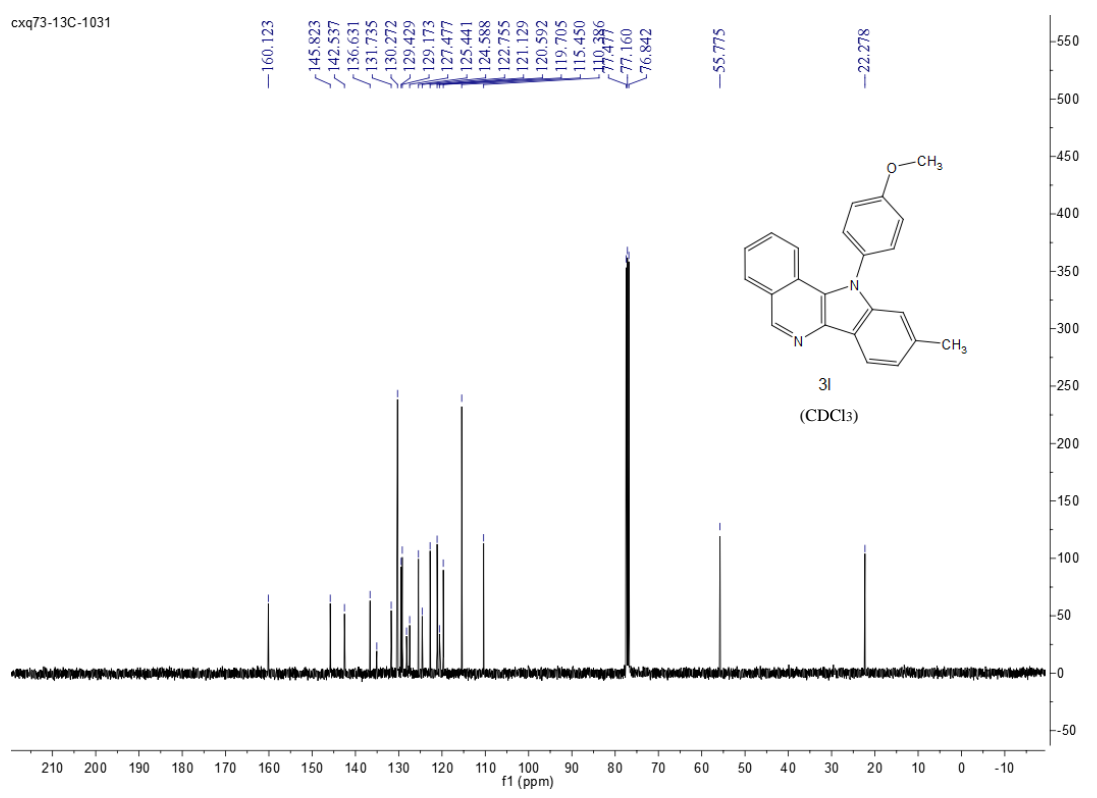
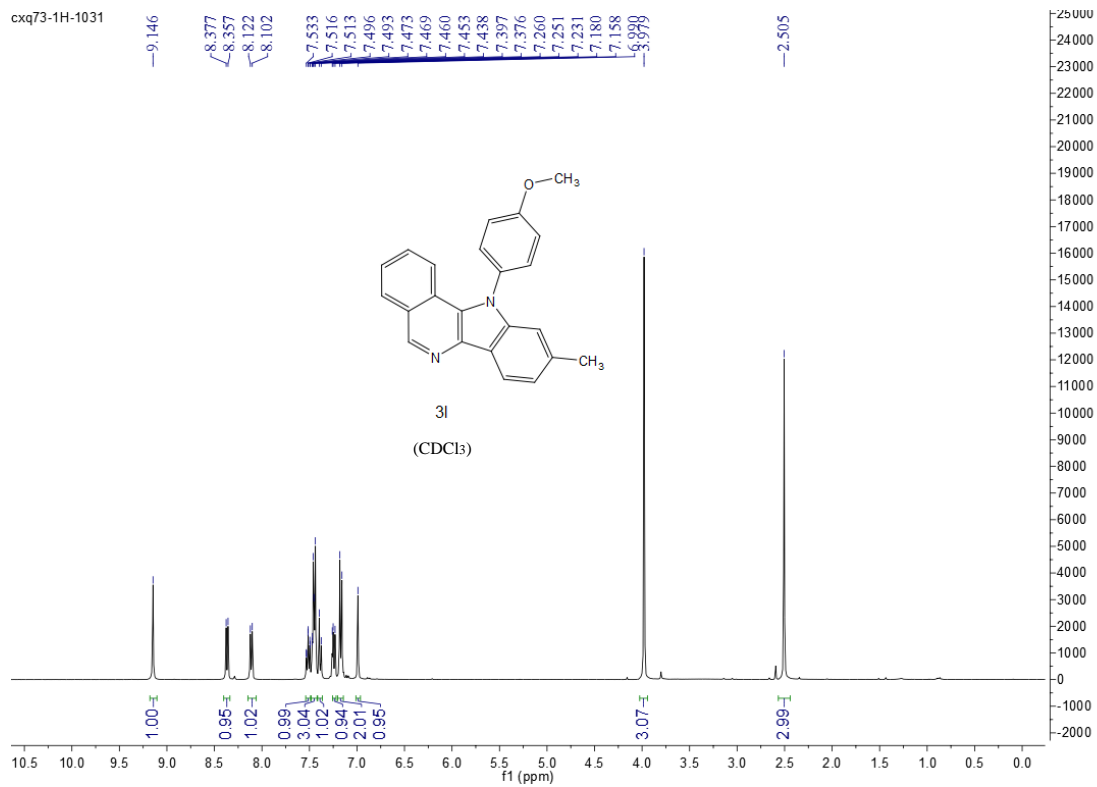


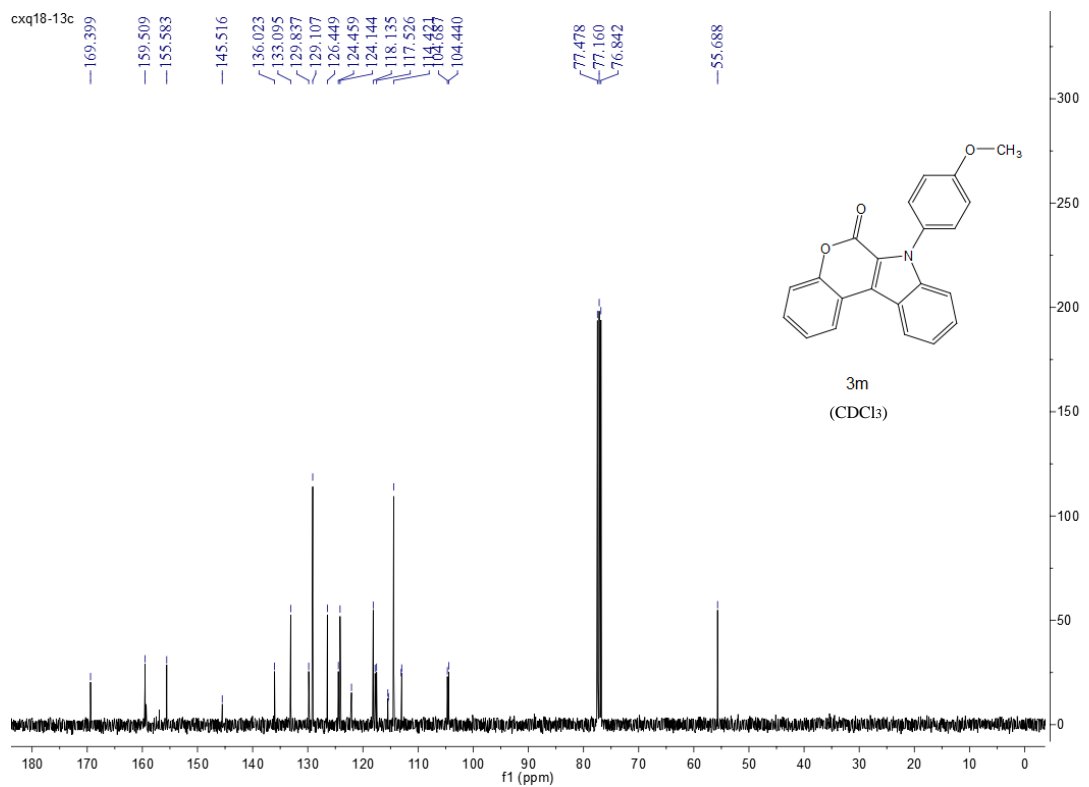
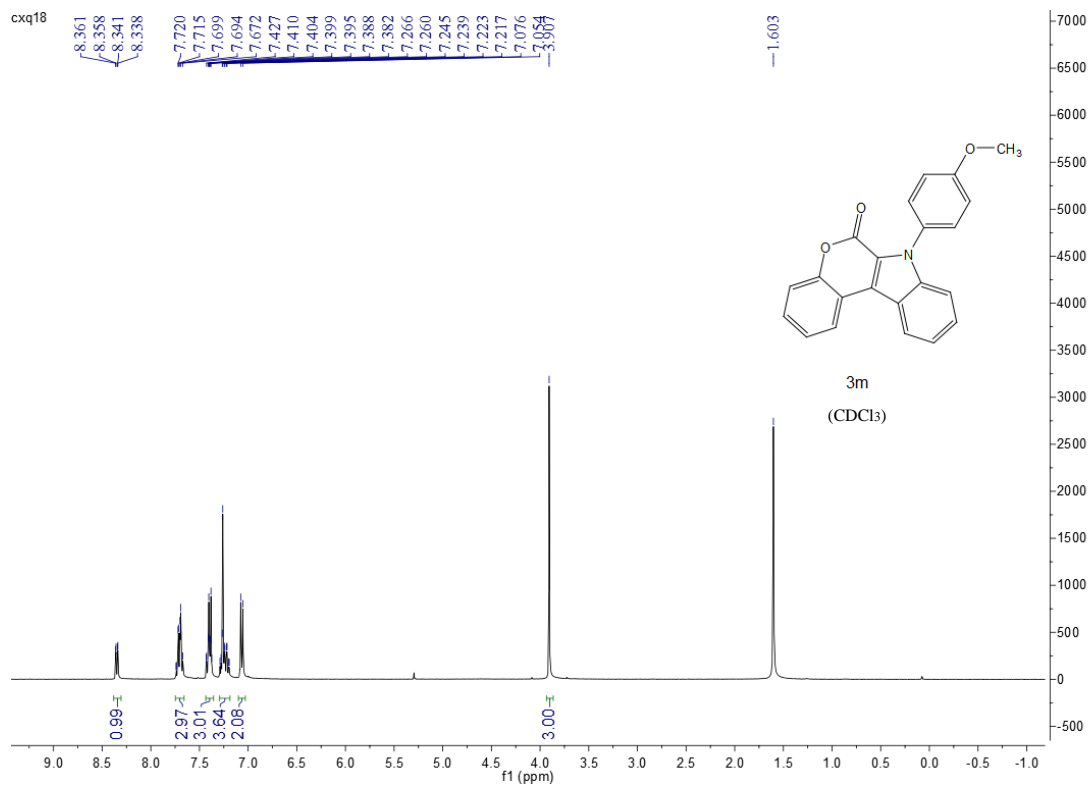


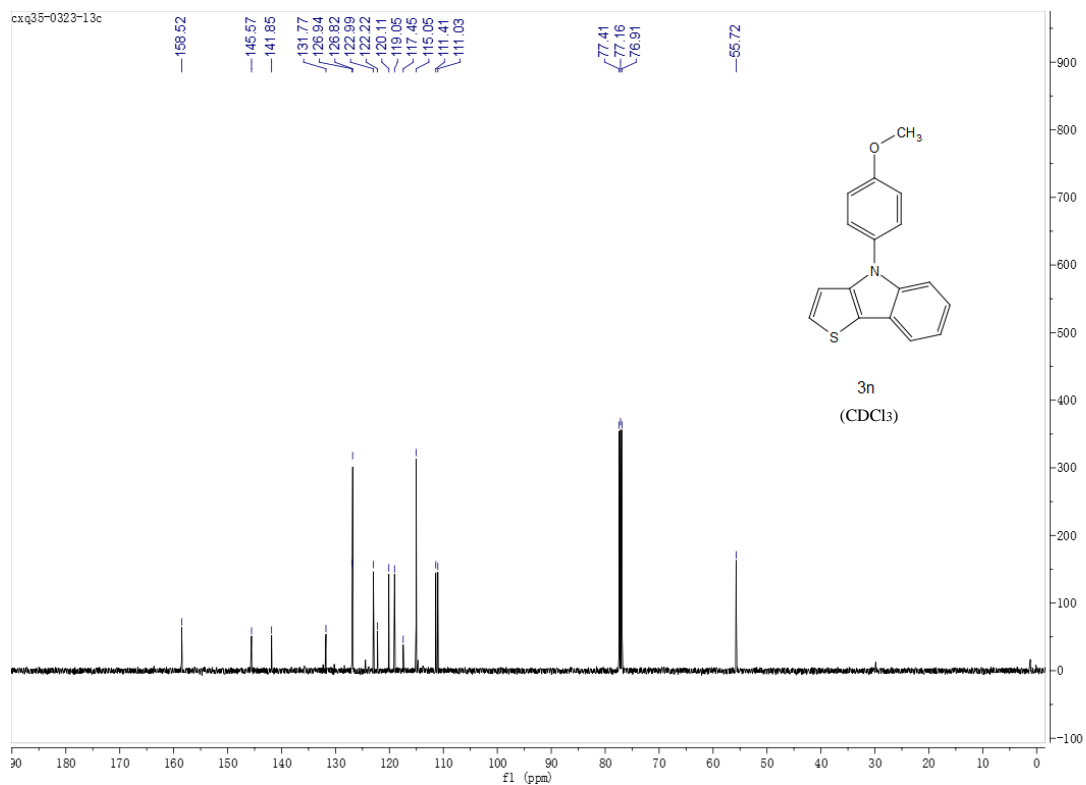
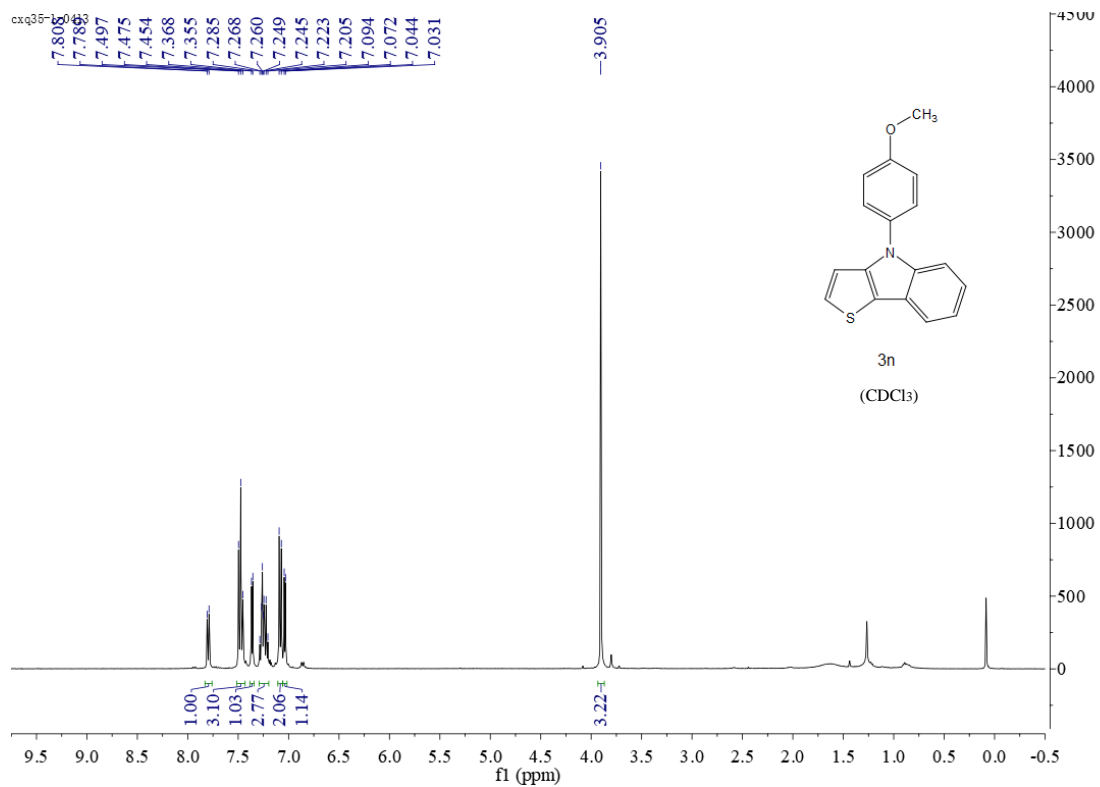


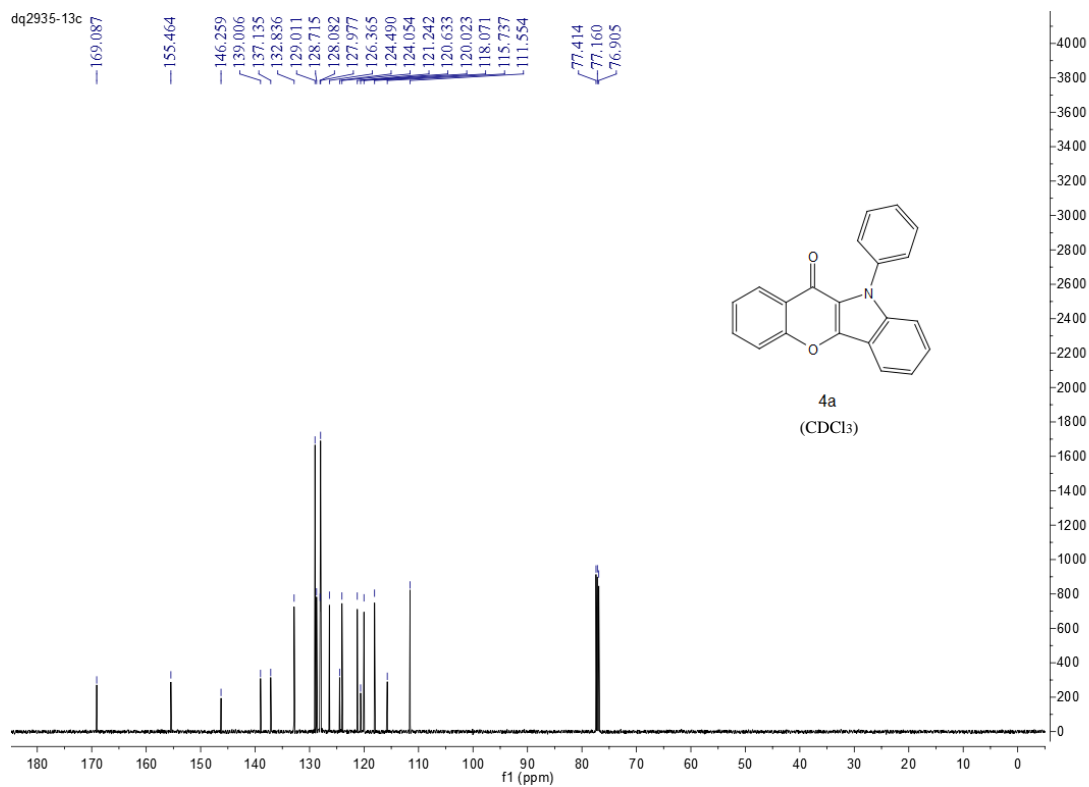
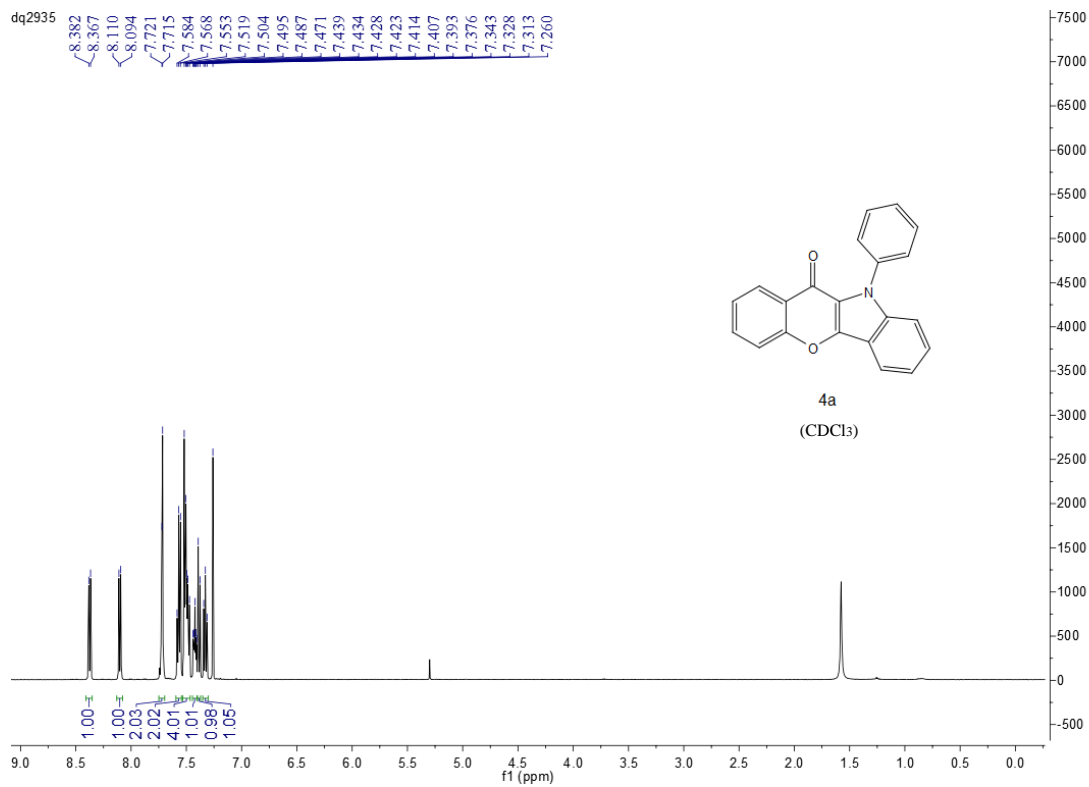


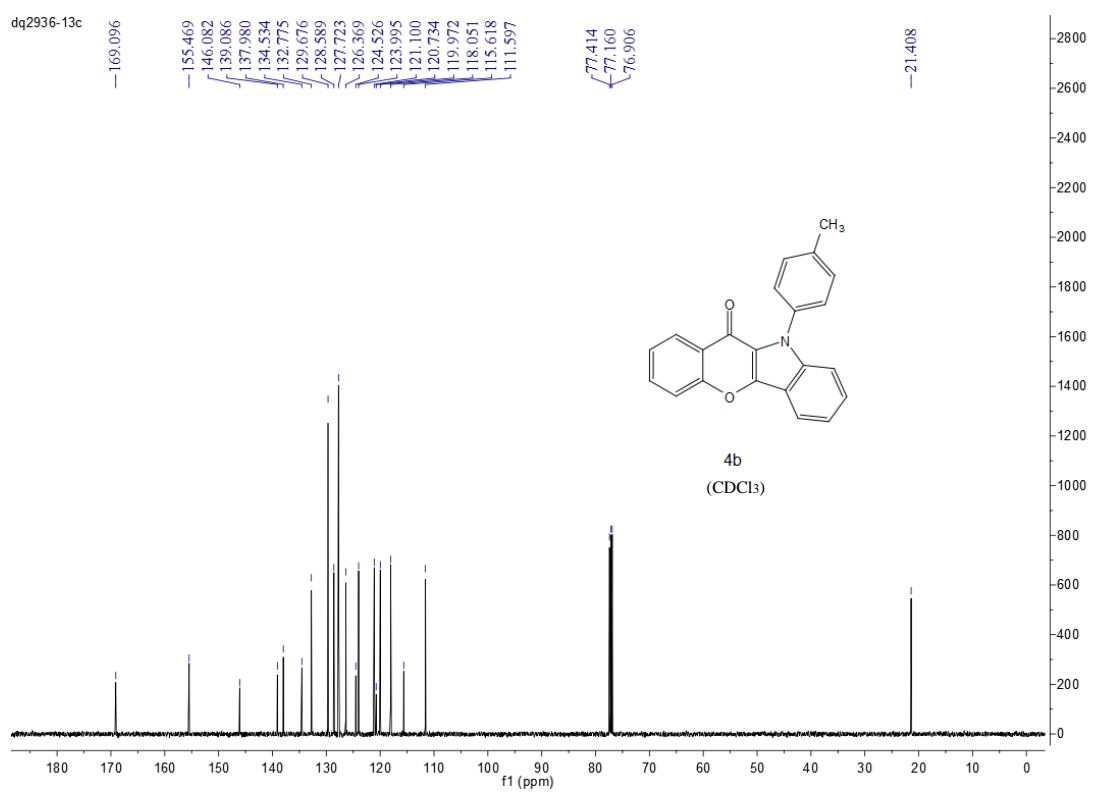
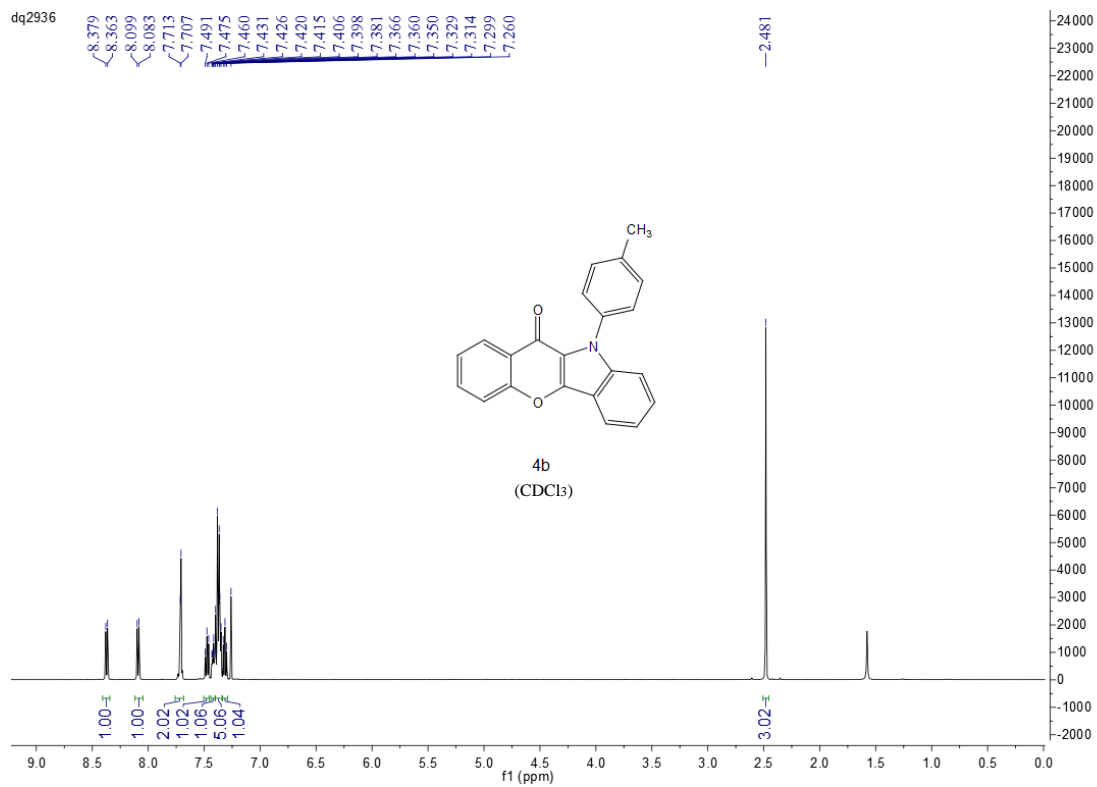


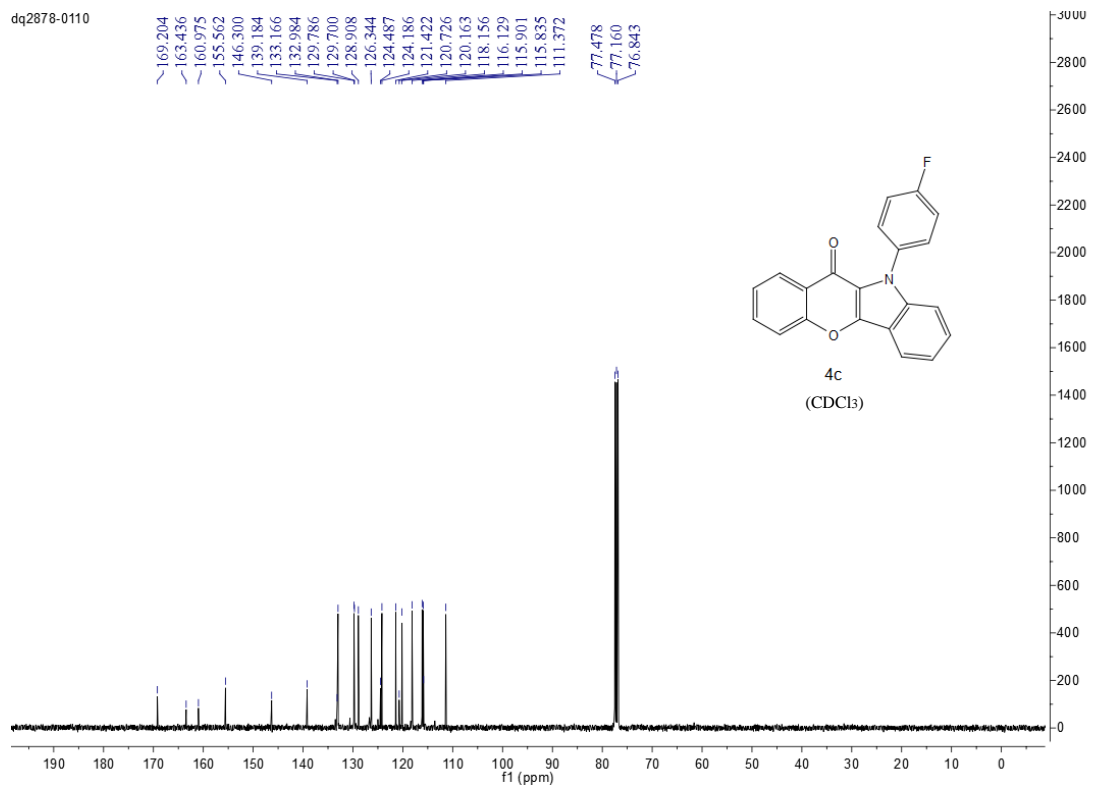
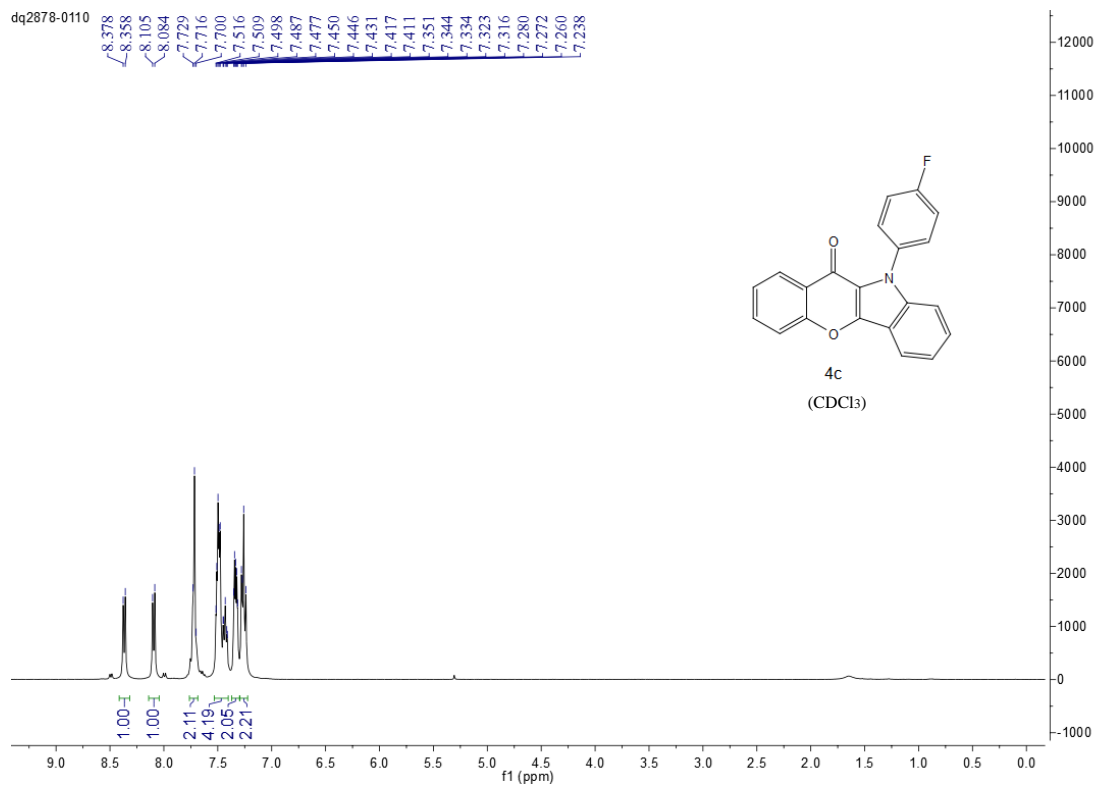


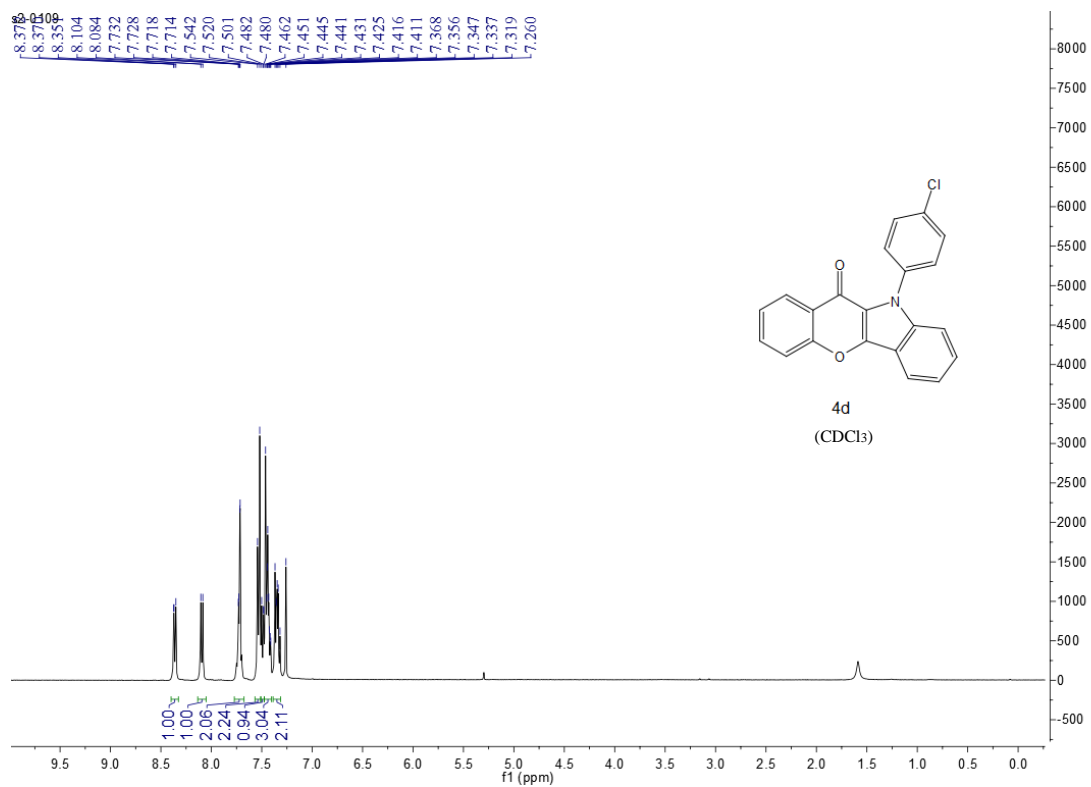
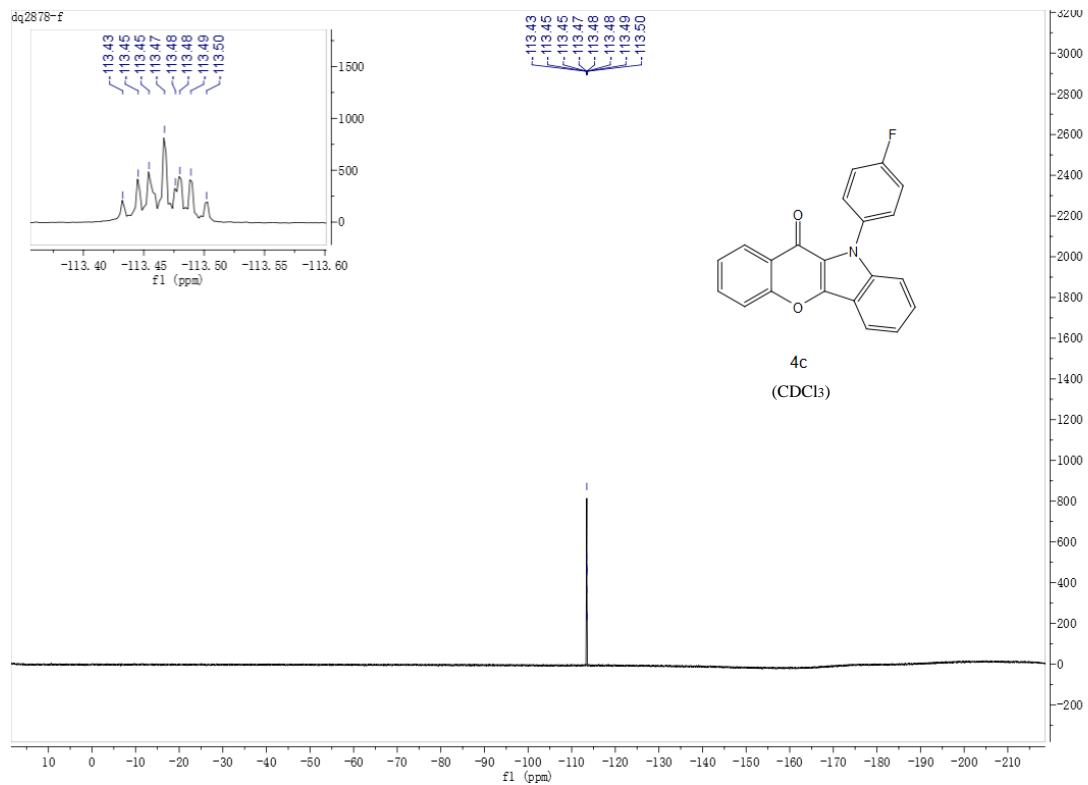




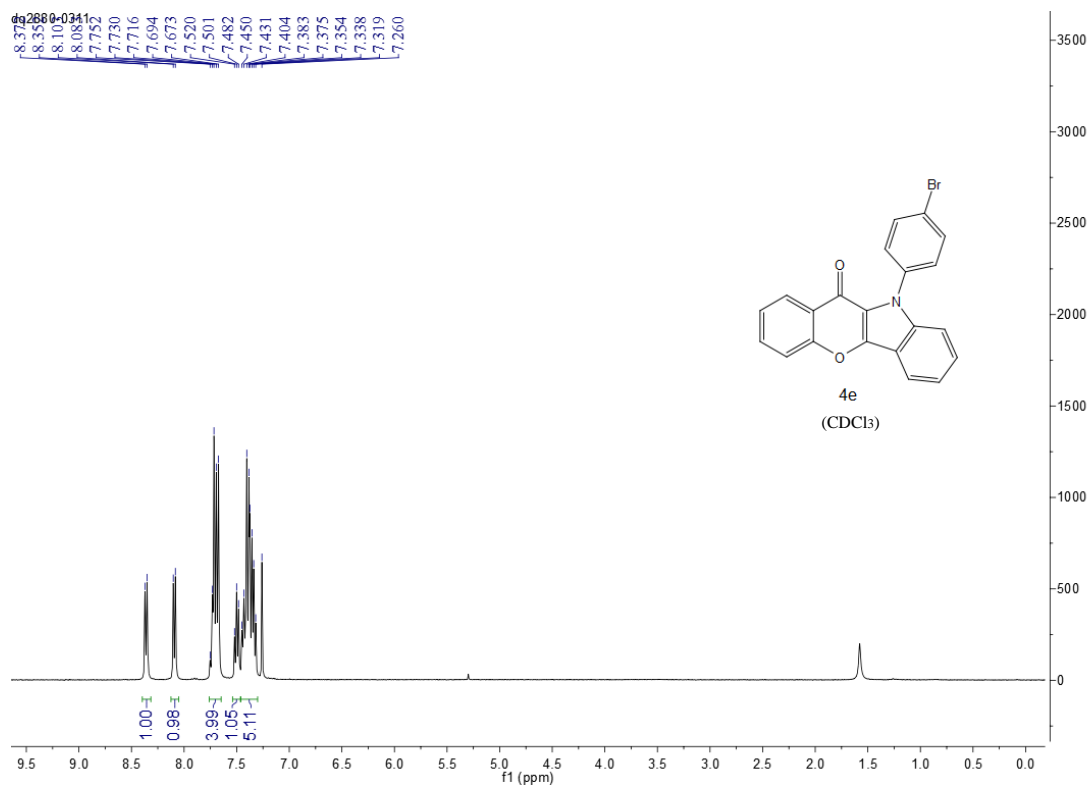
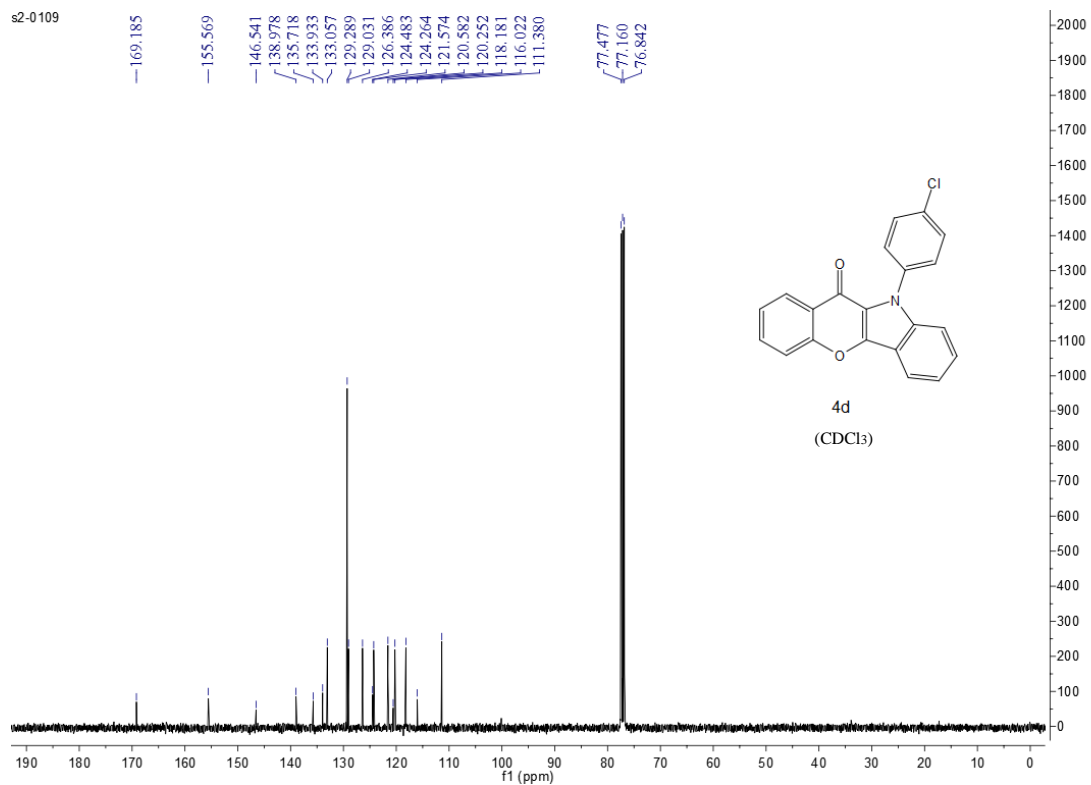


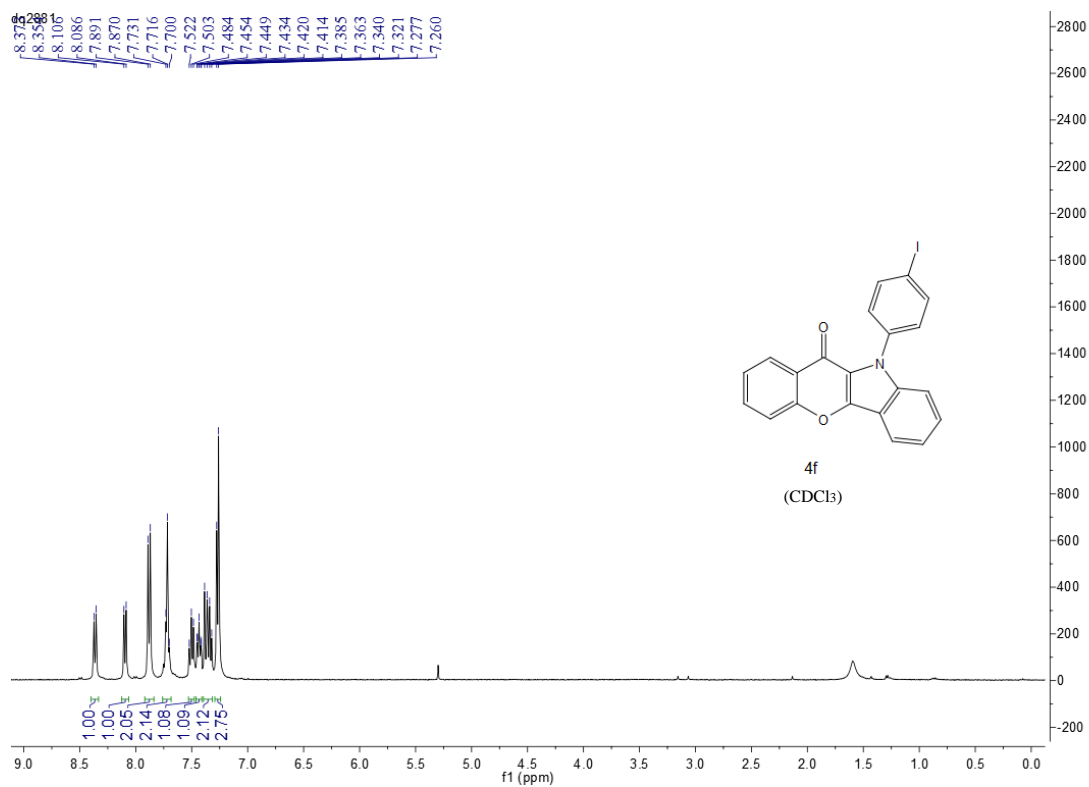
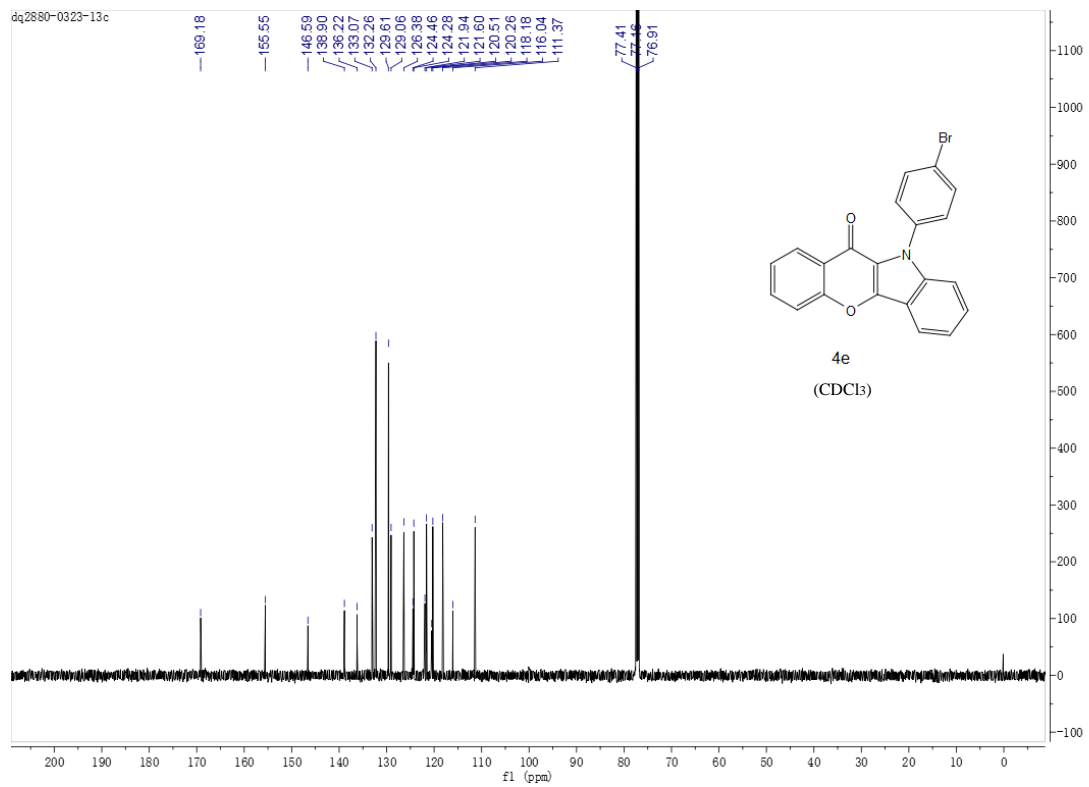


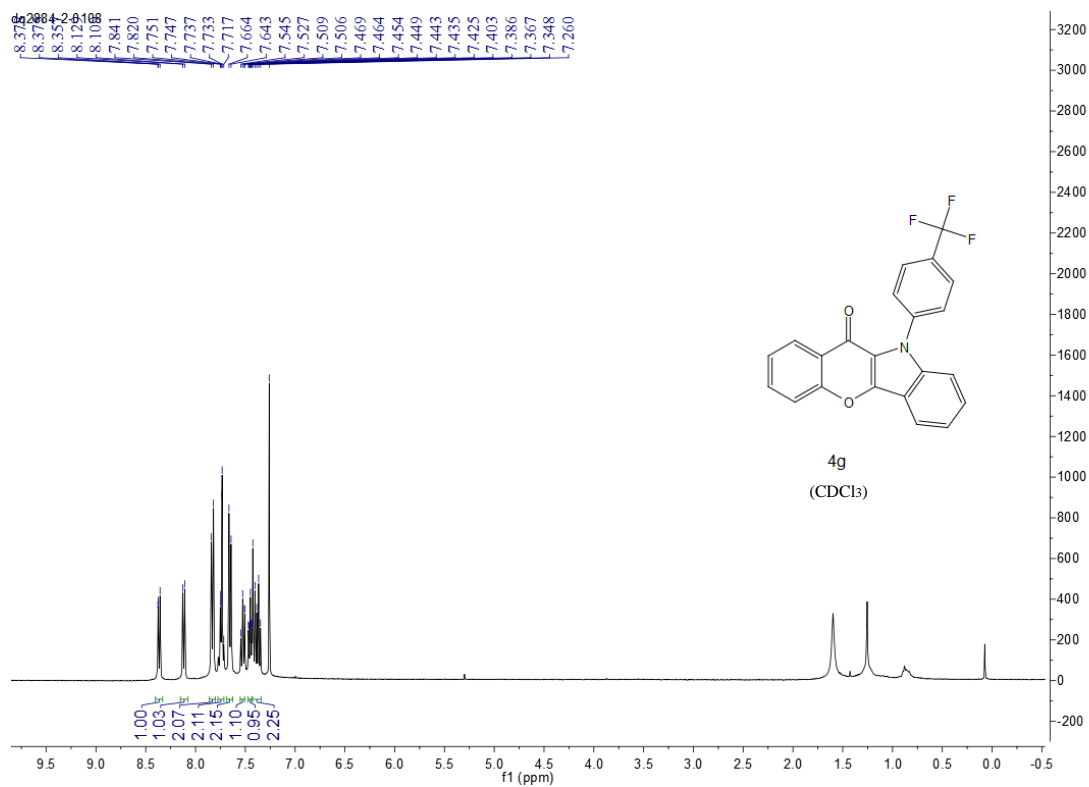
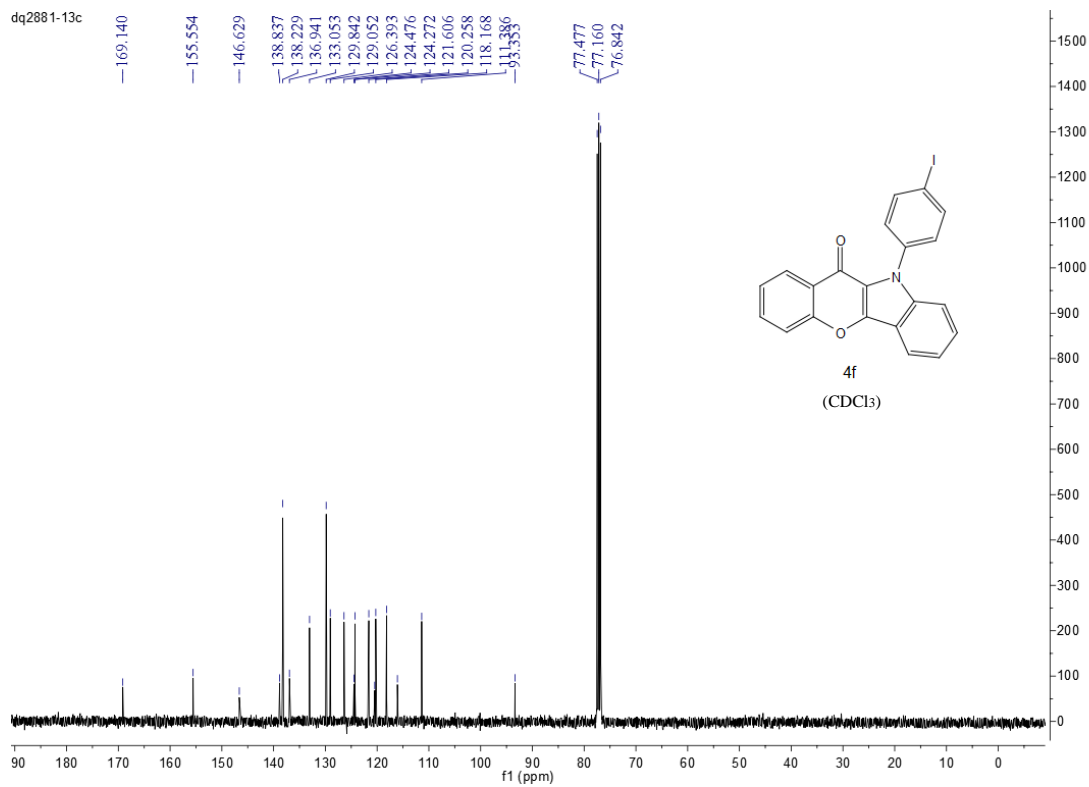


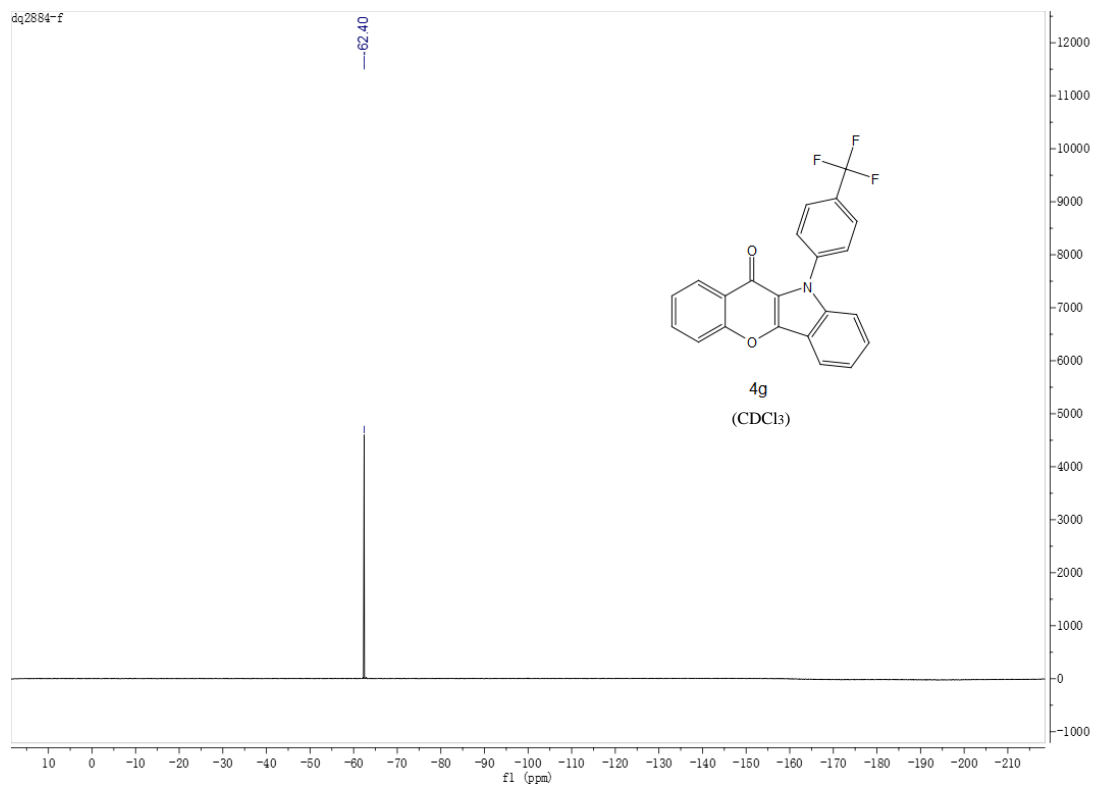
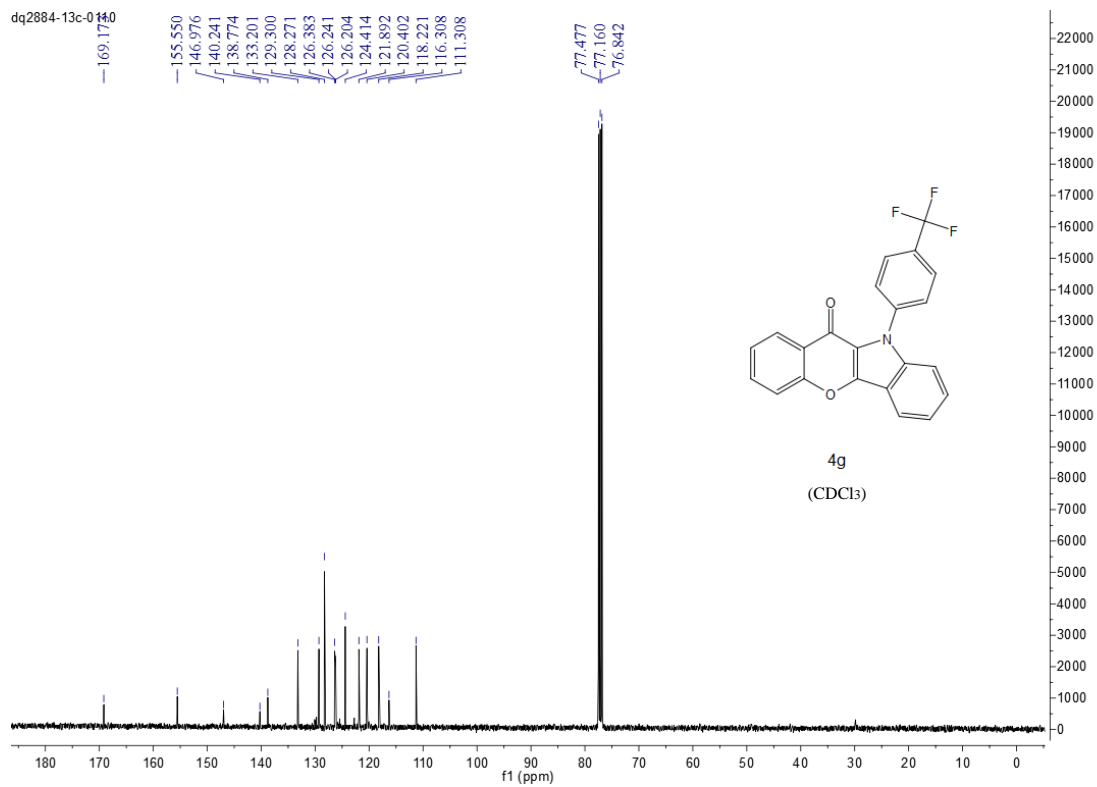


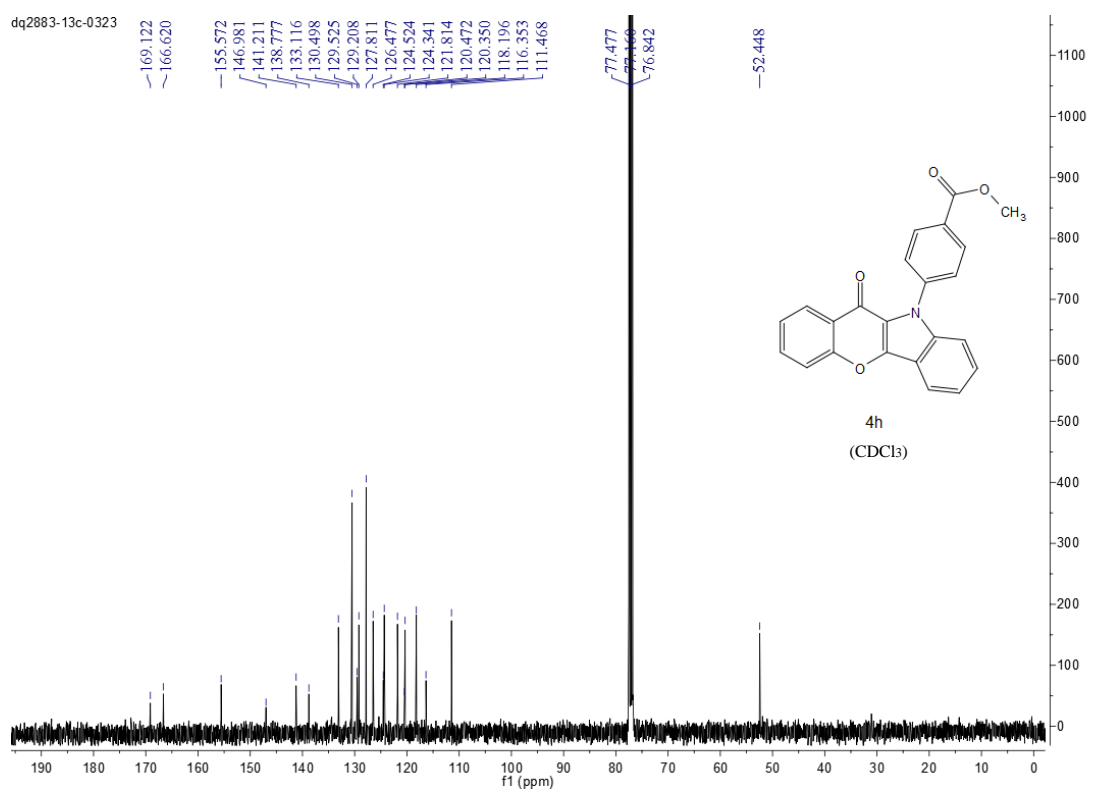
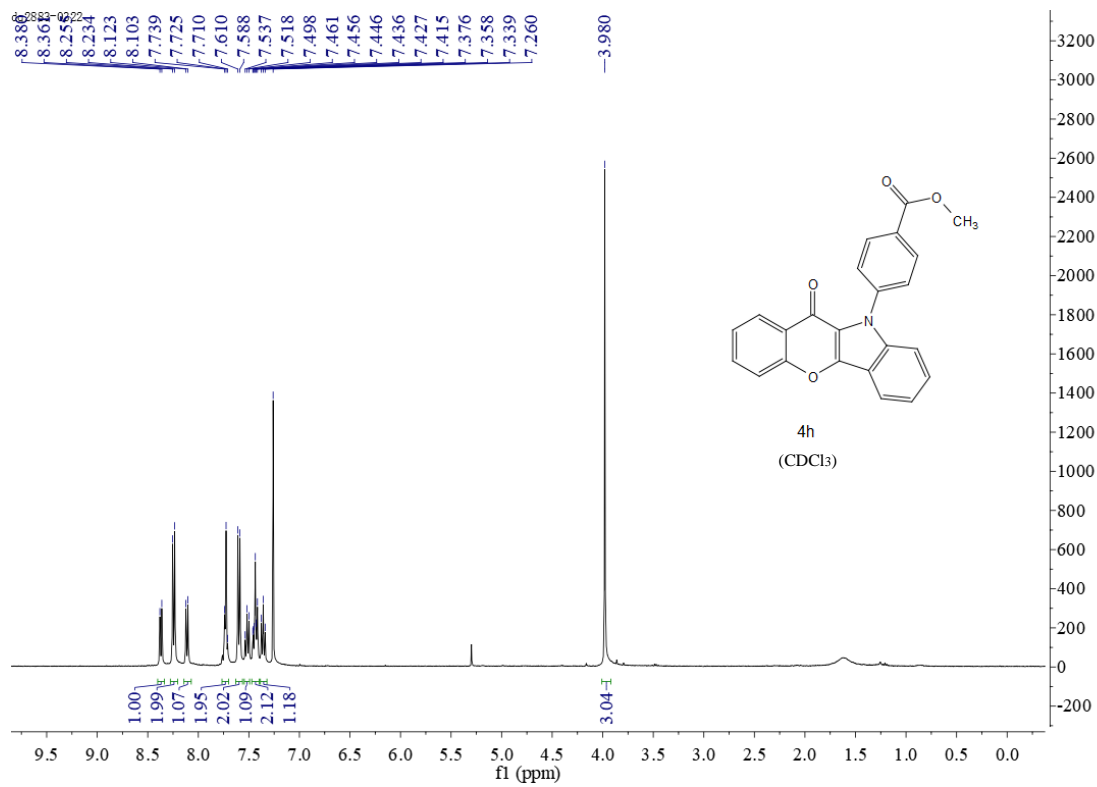
s2-0109

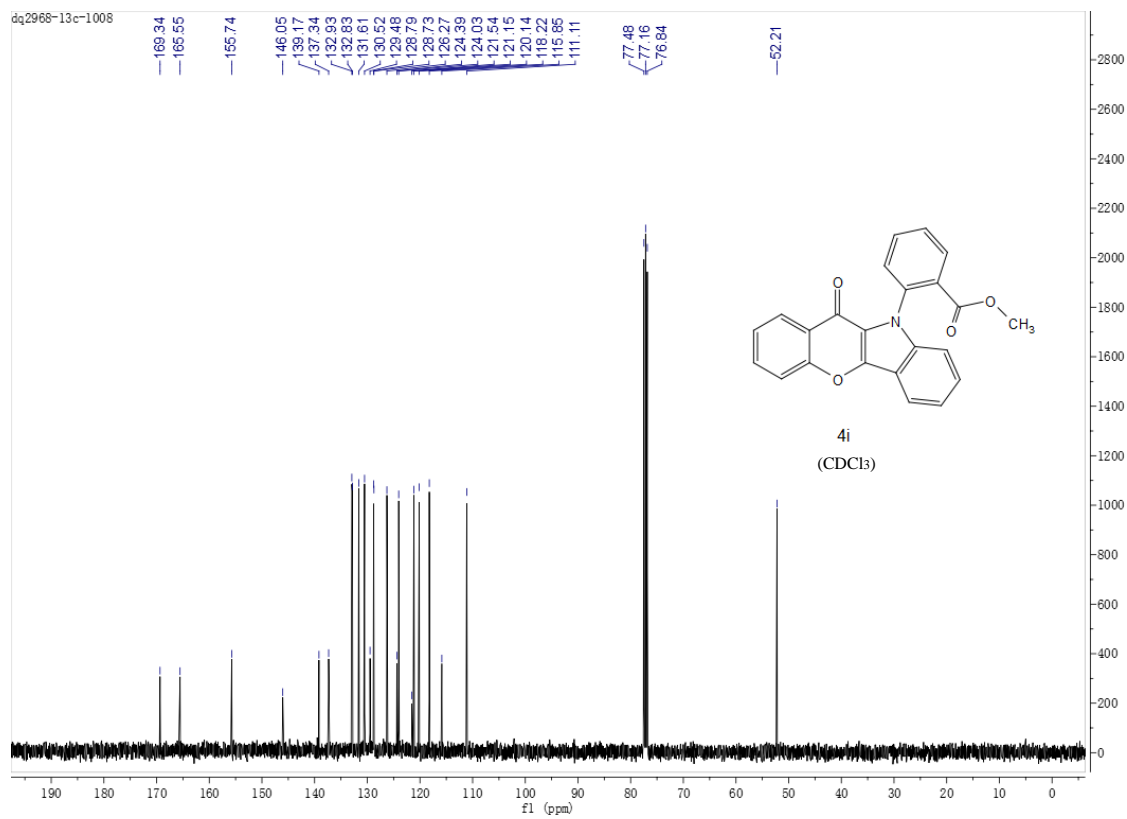
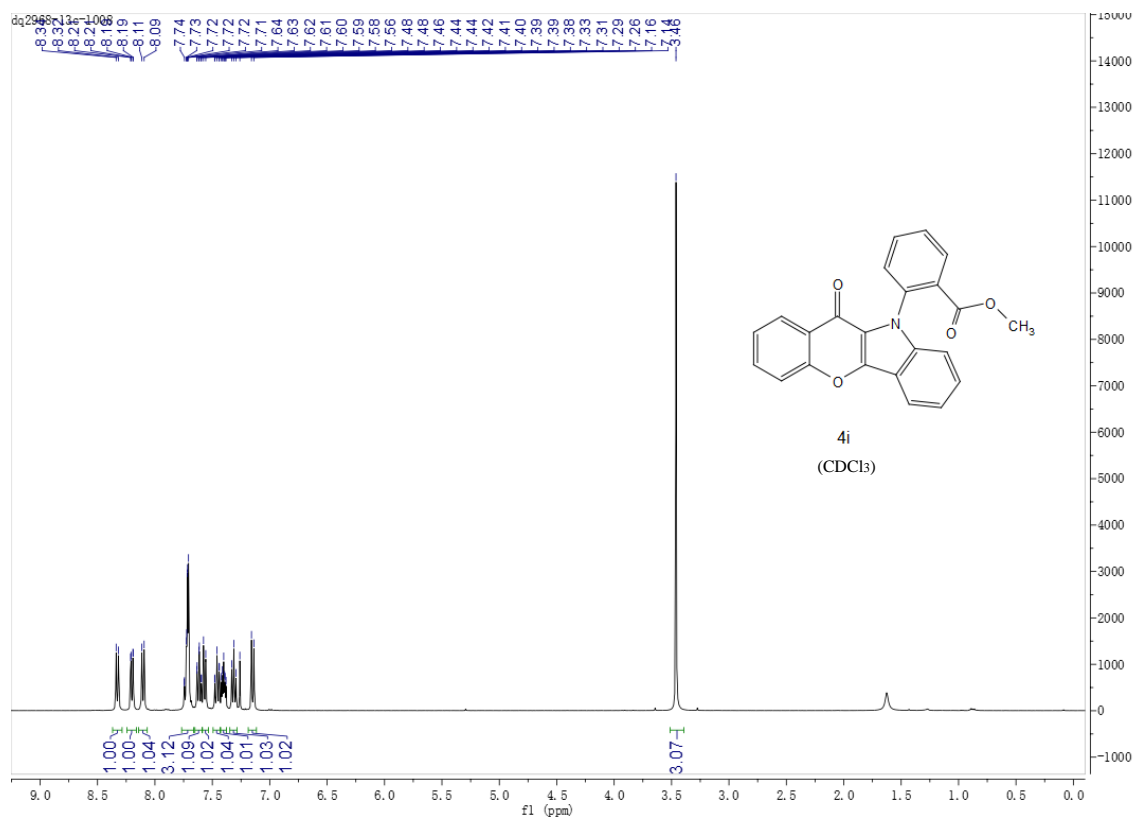


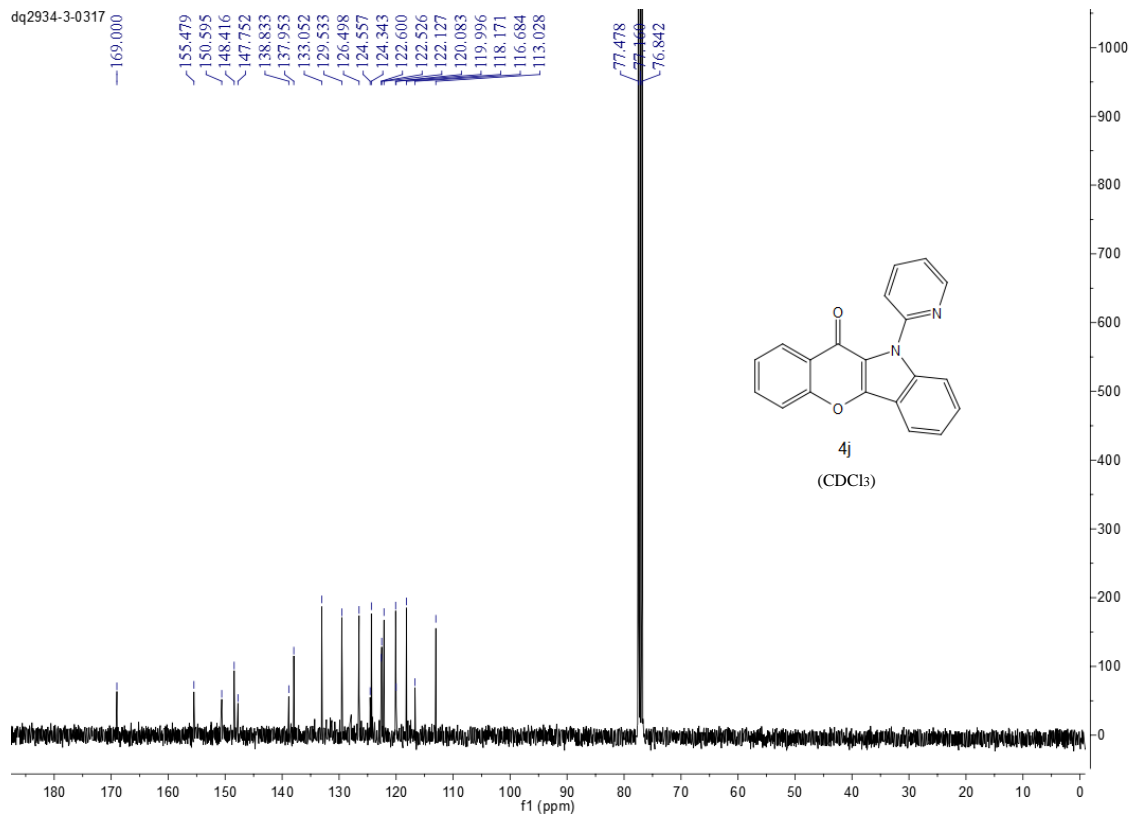
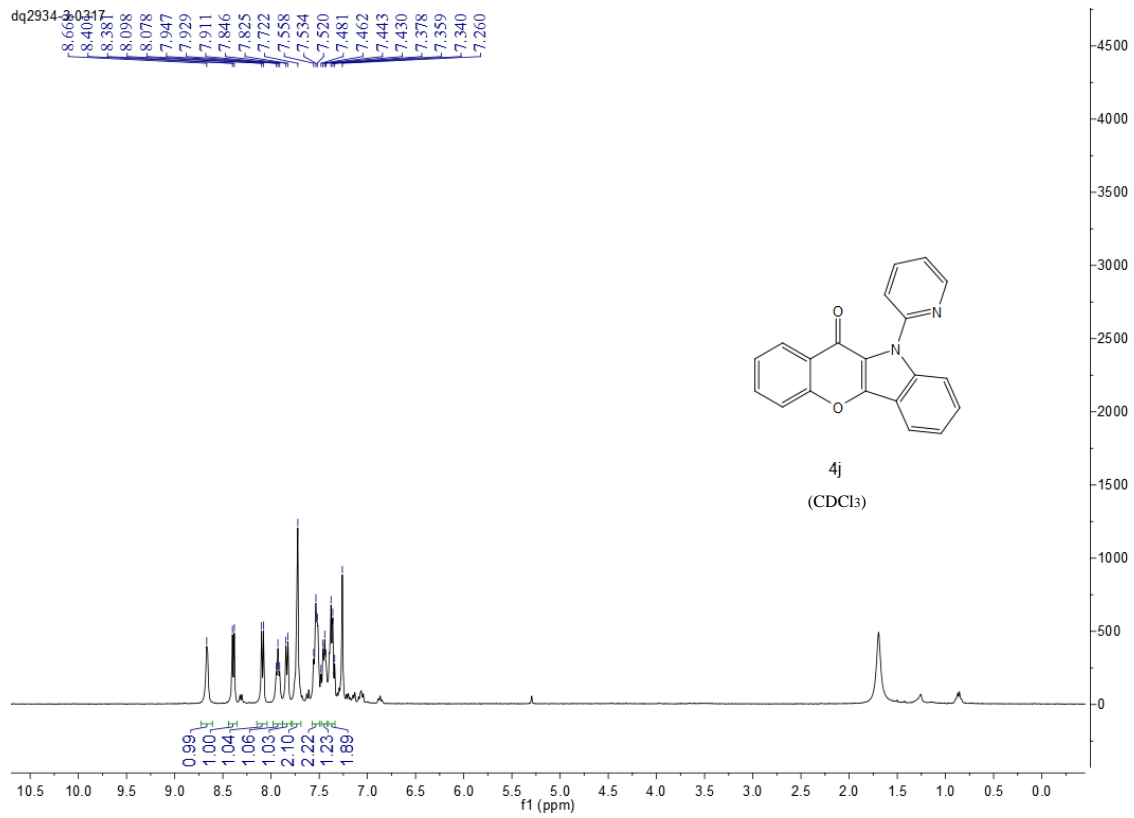




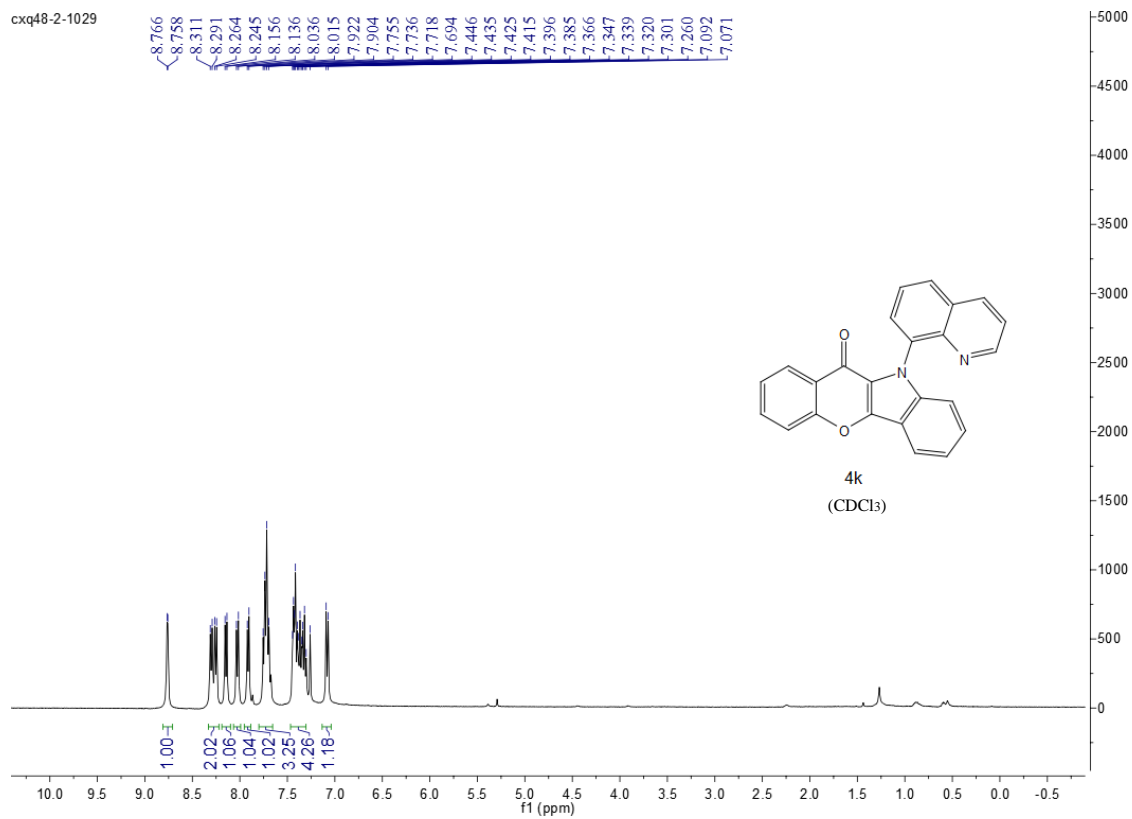




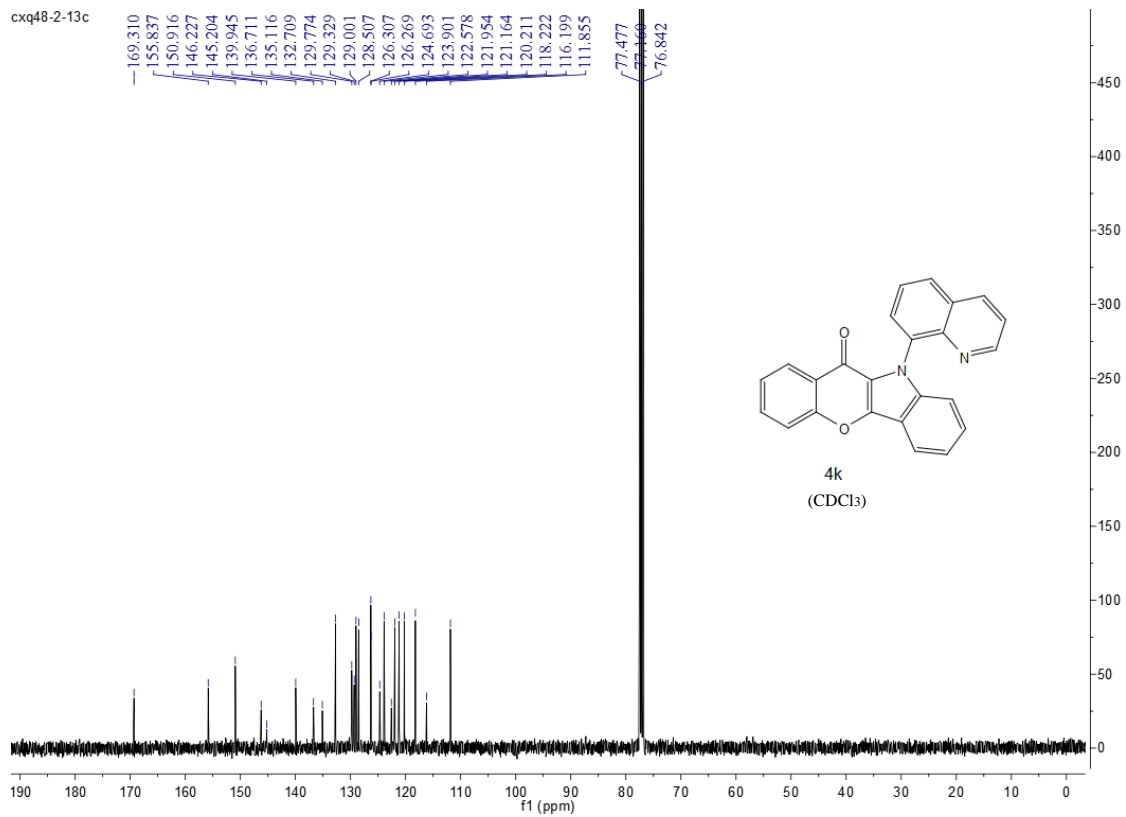




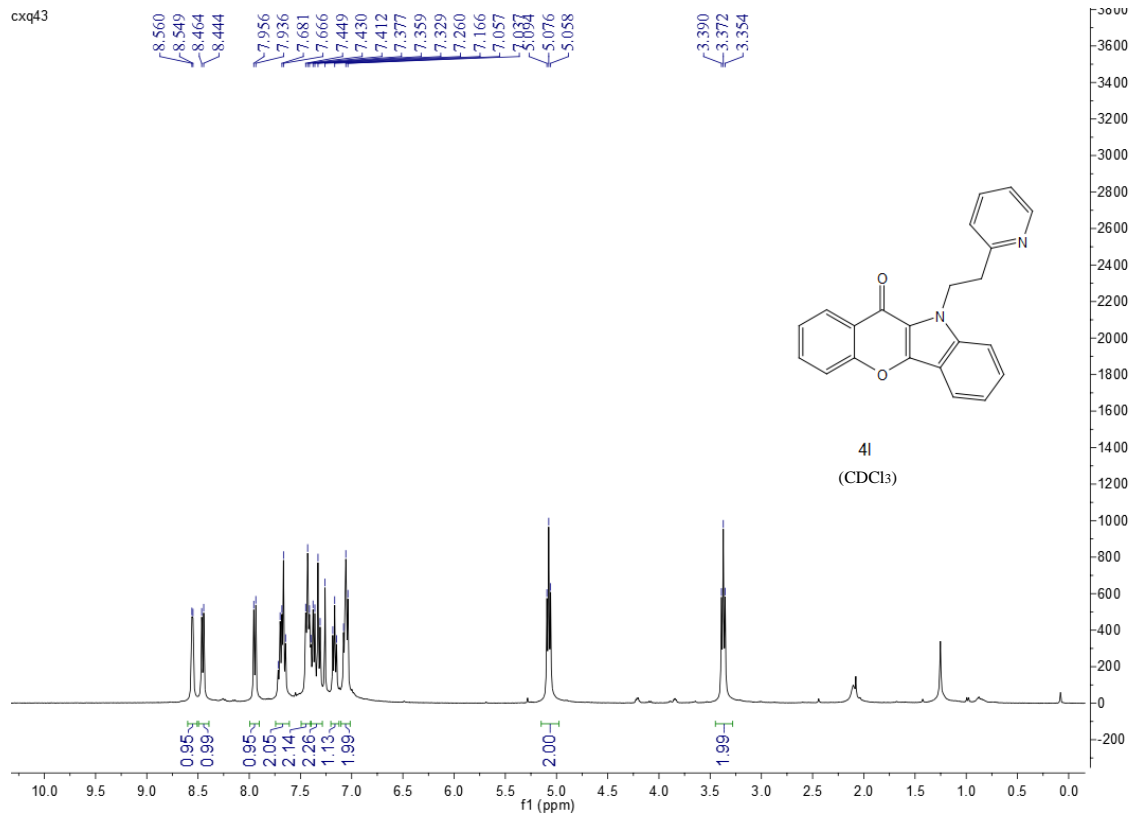
cxq48-2-1029



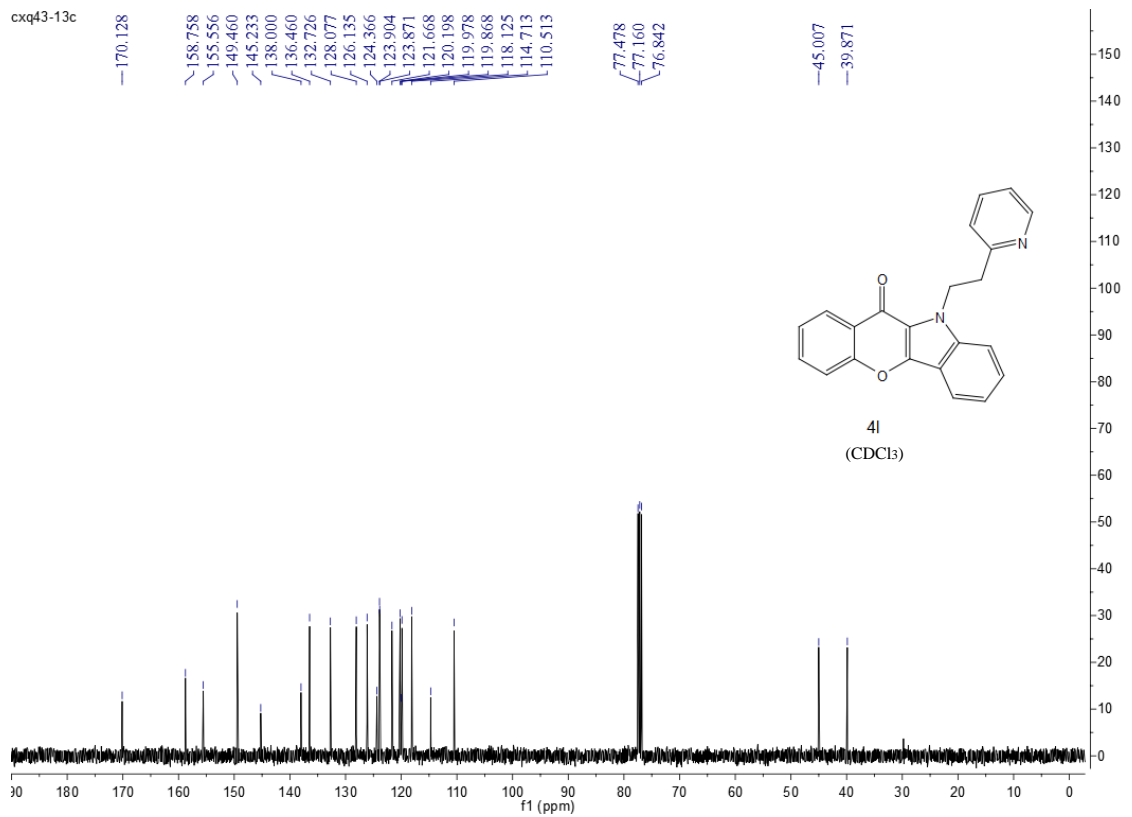
cxq48-2-13c

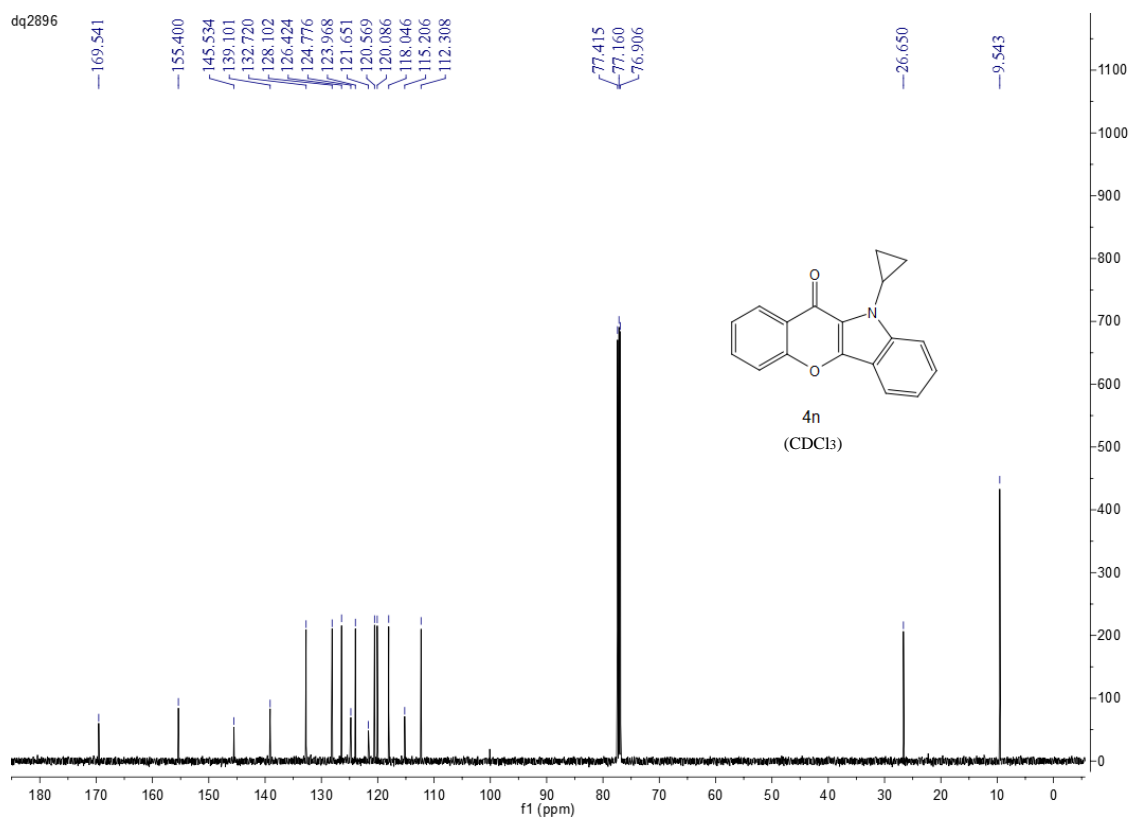
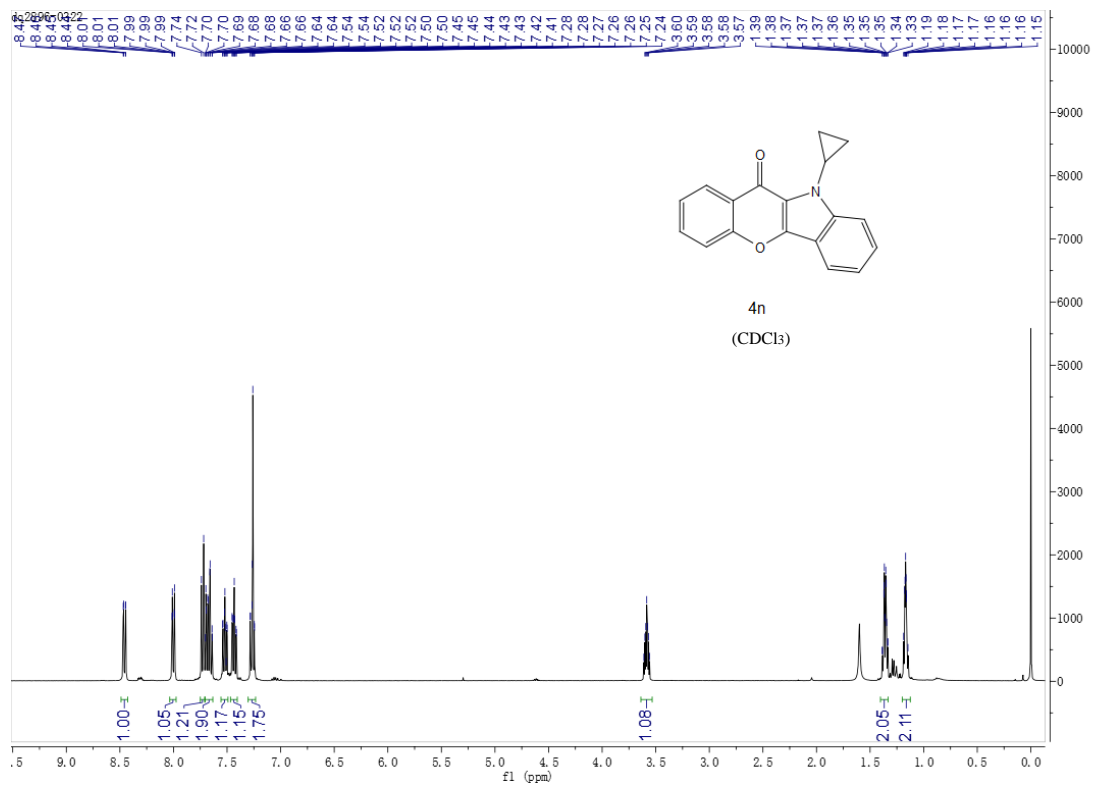


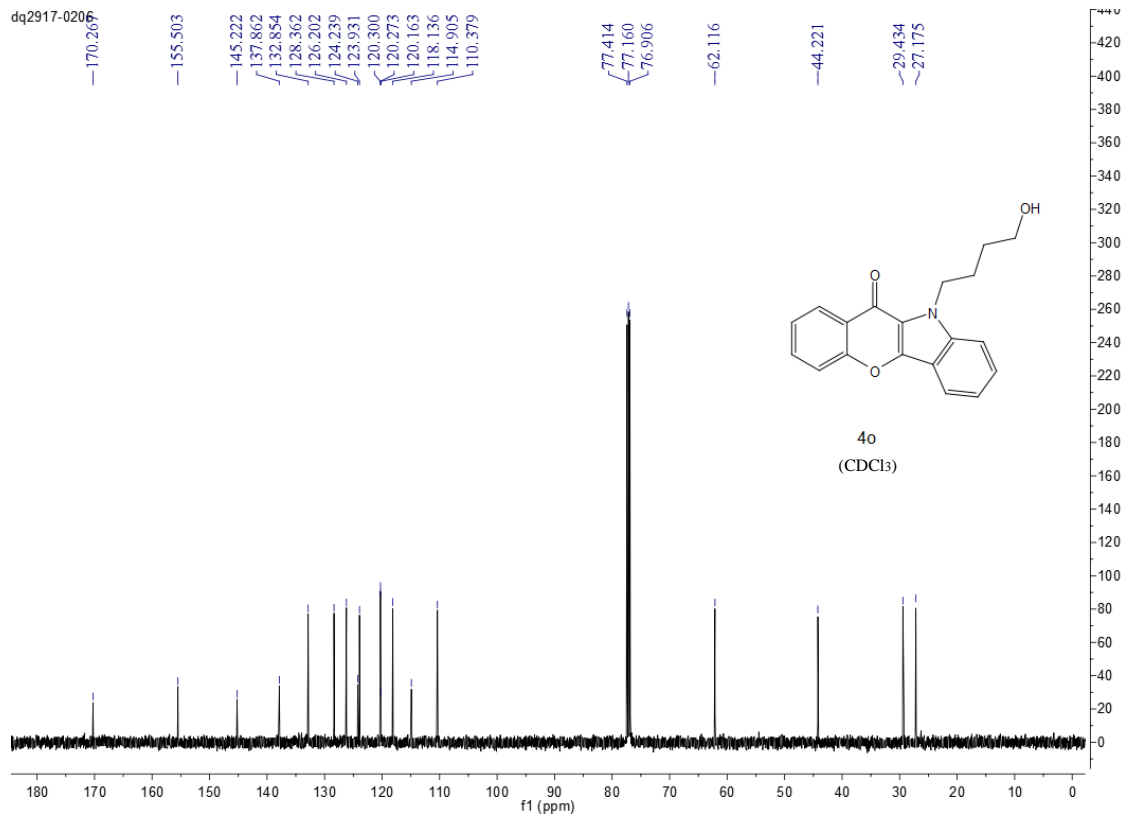
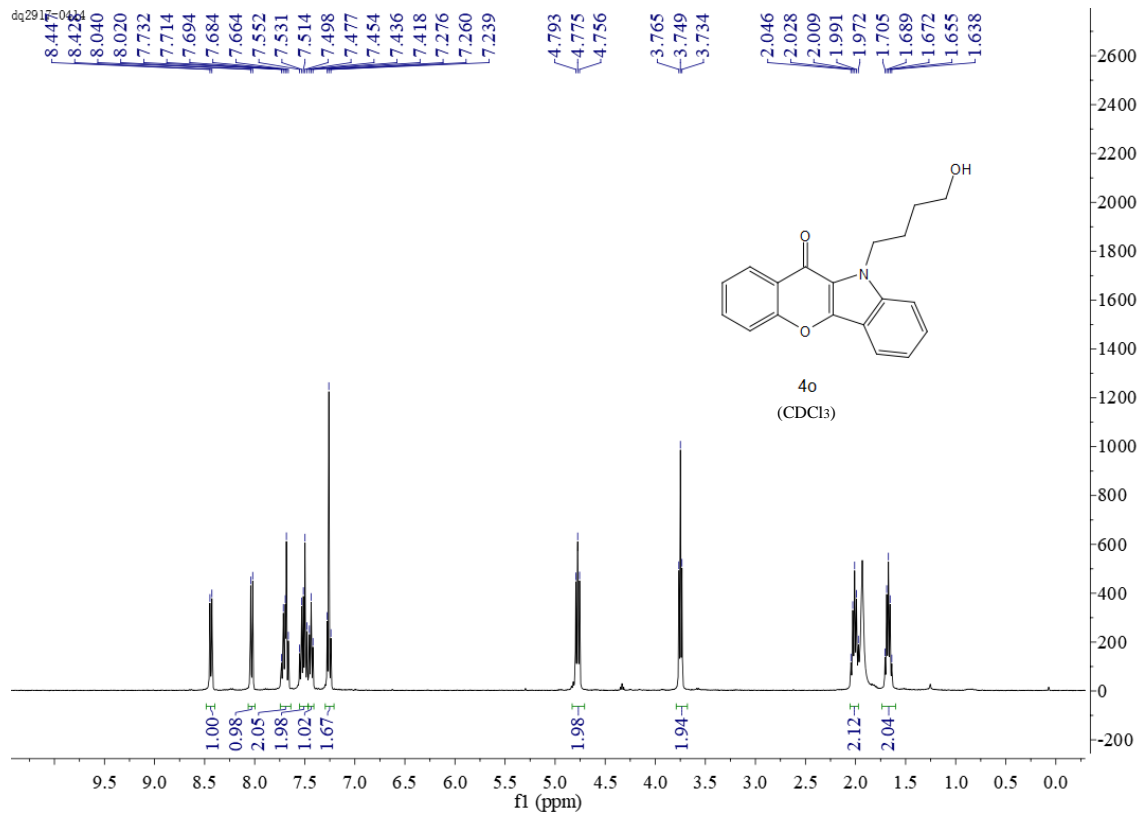
cxq43

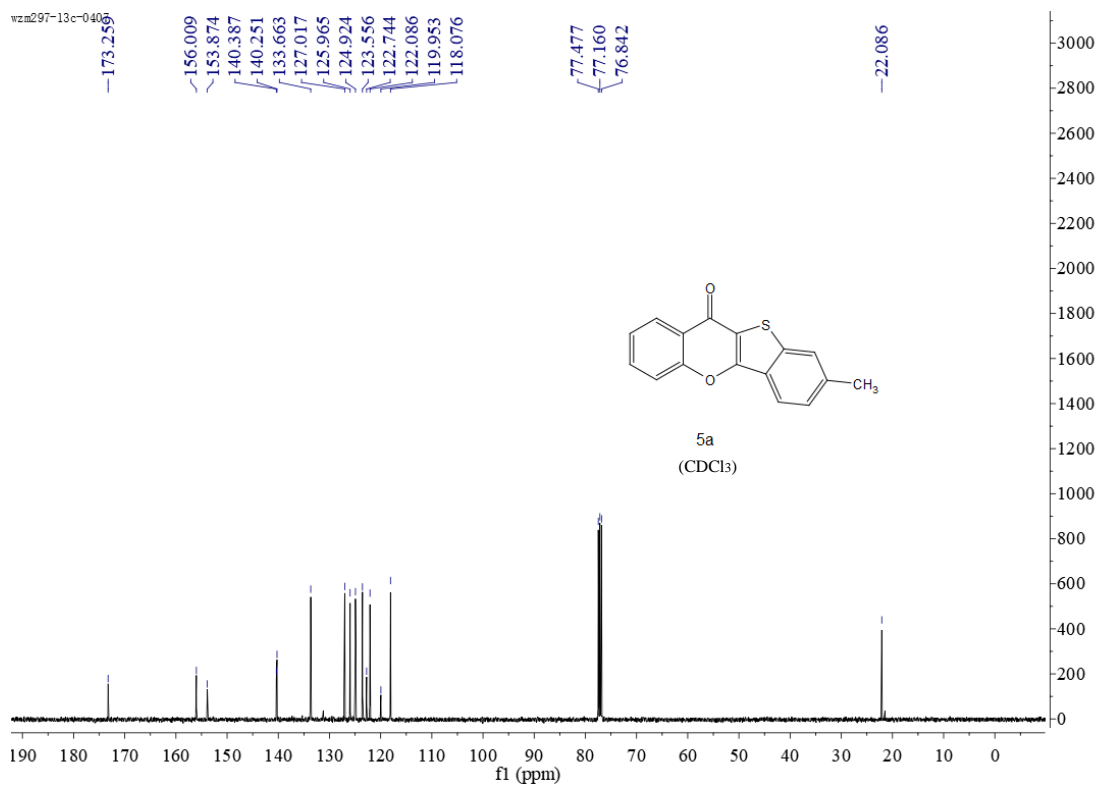
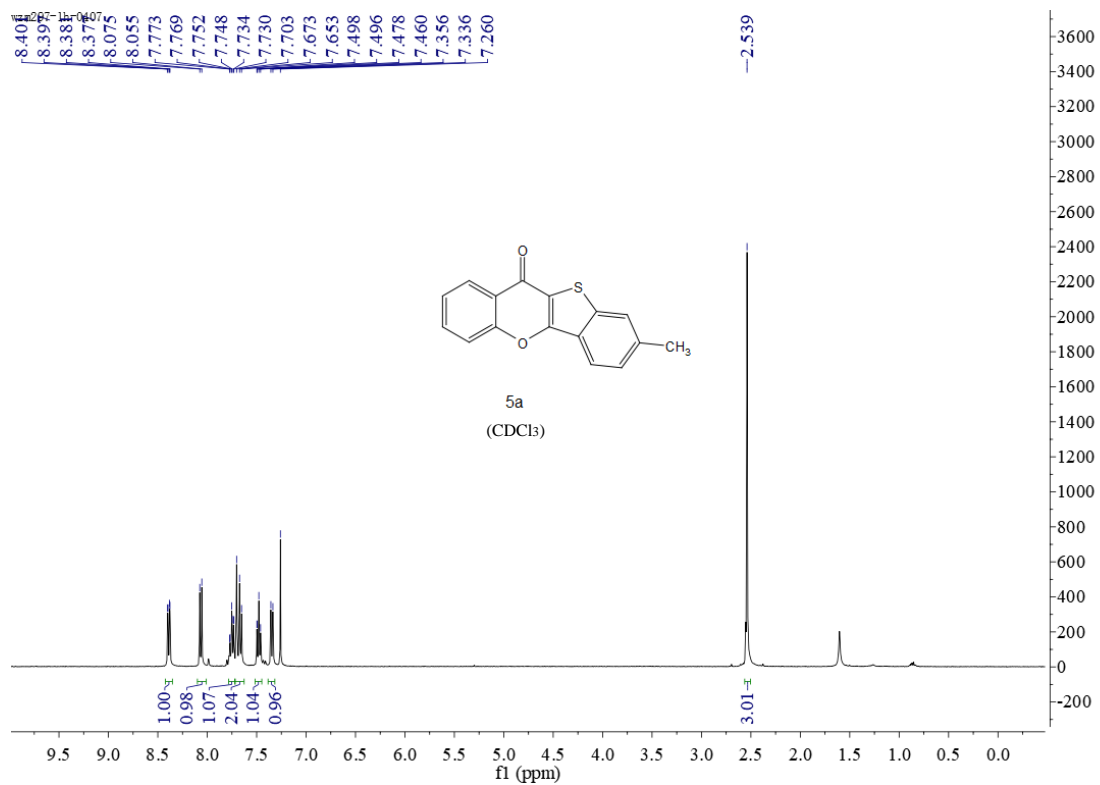


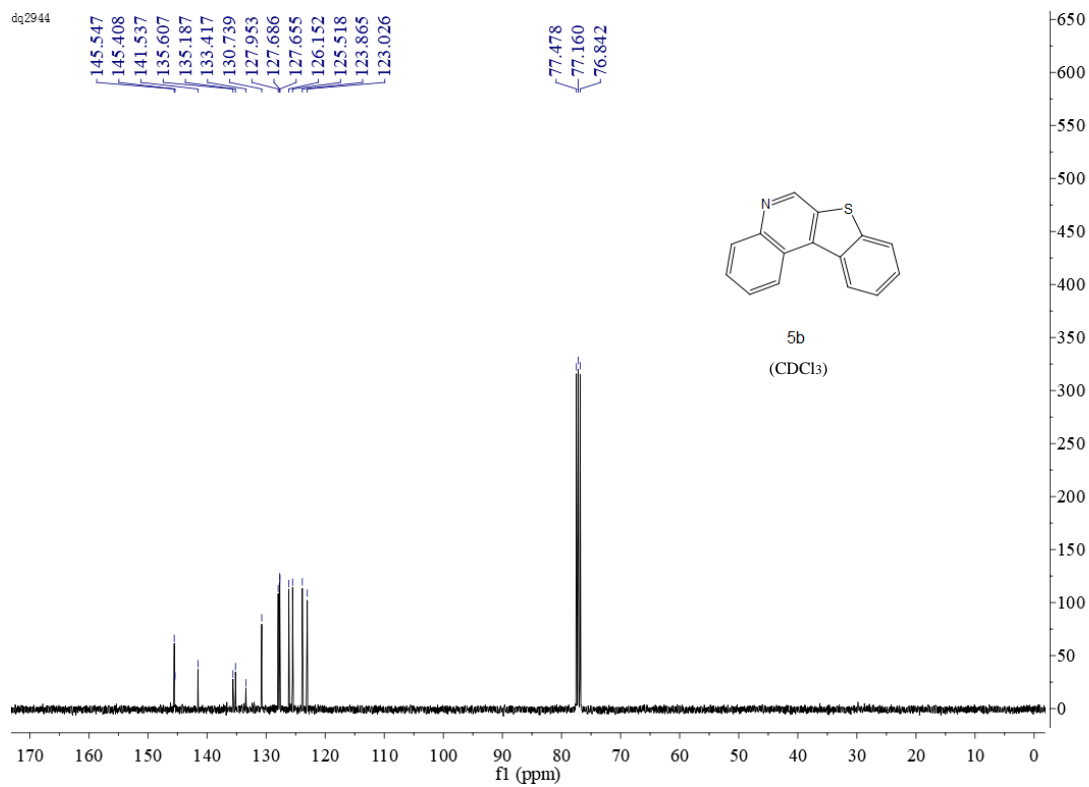
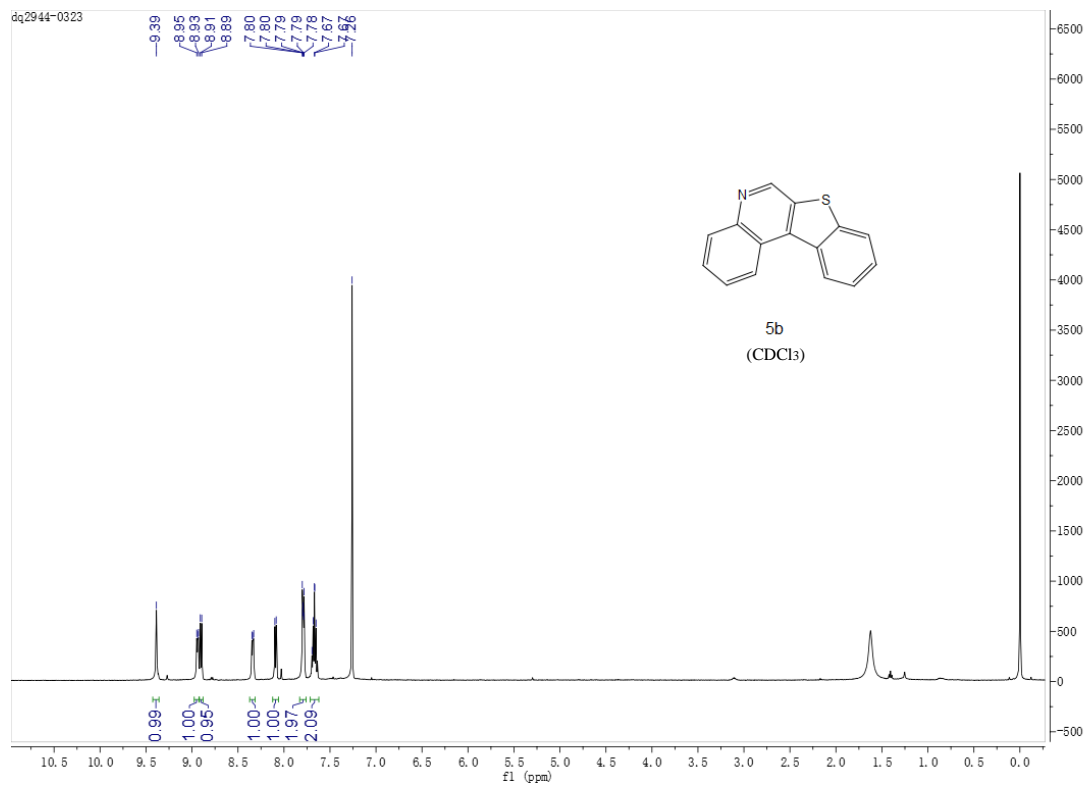
cxq43-13c



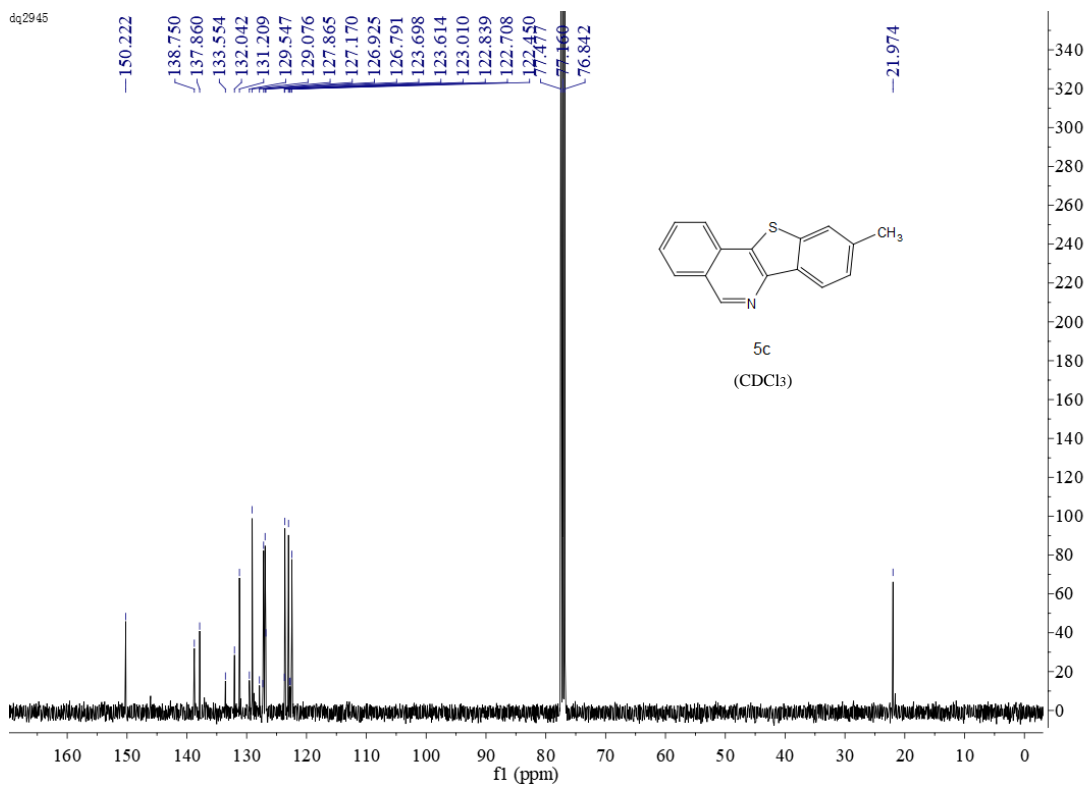
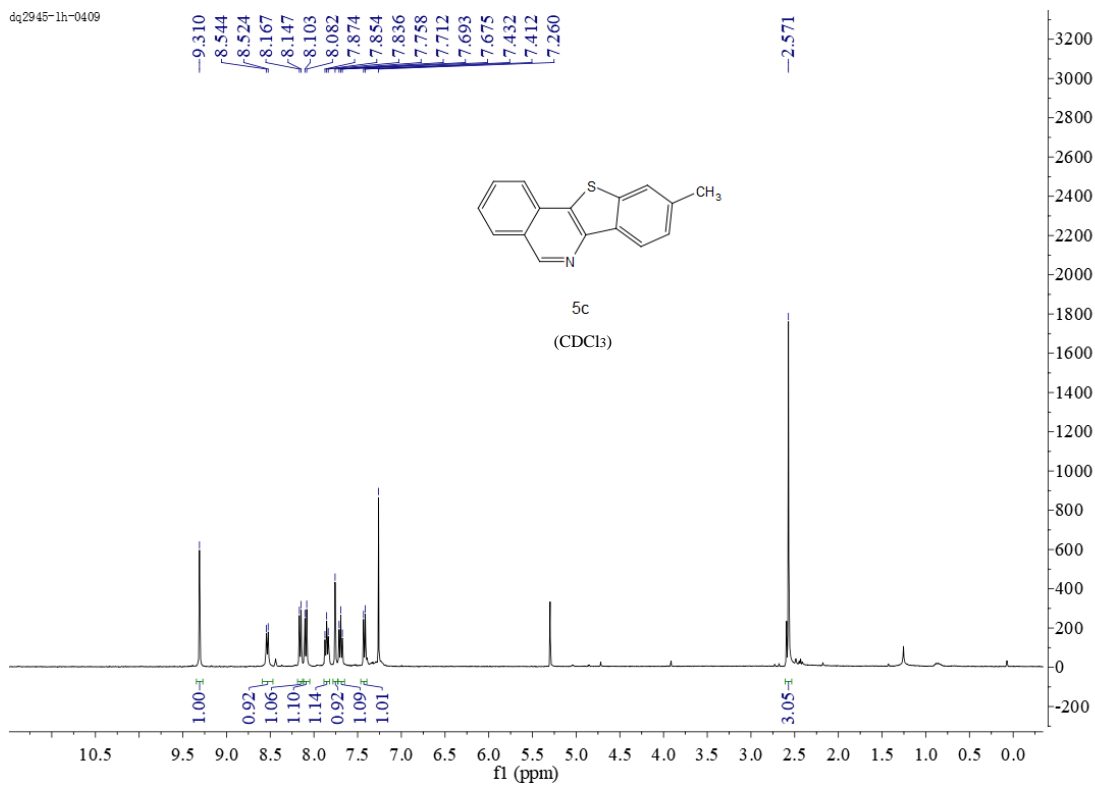


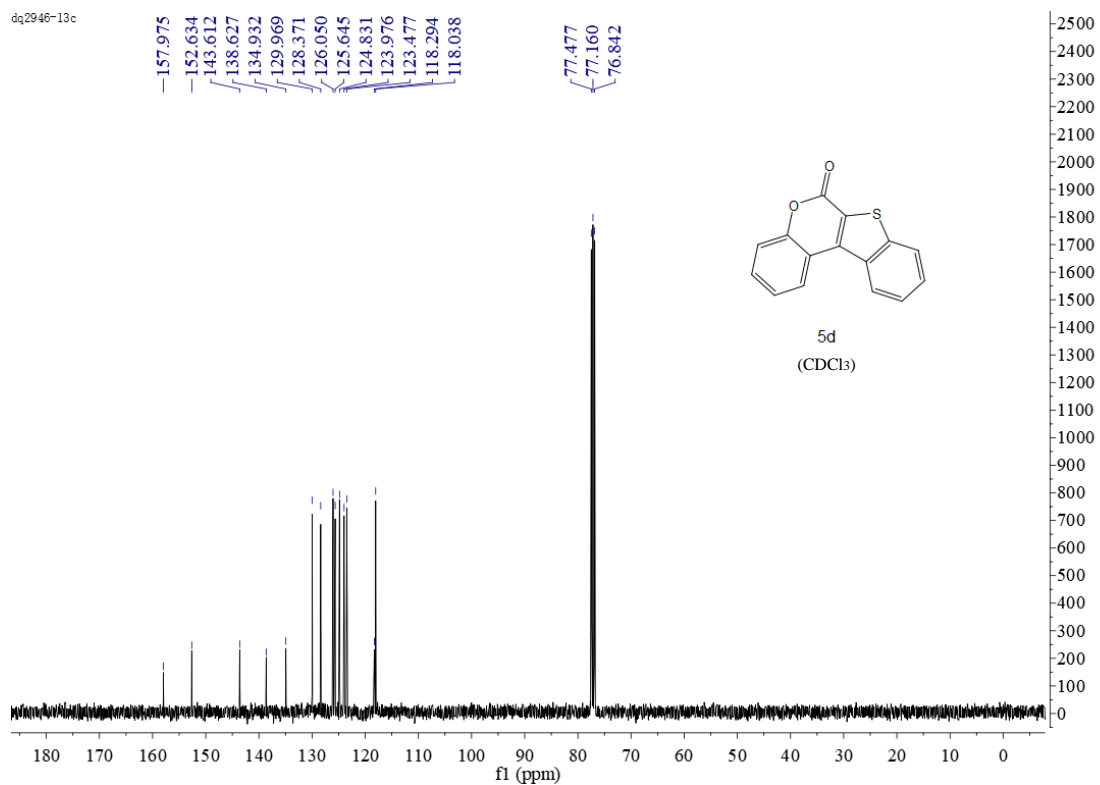
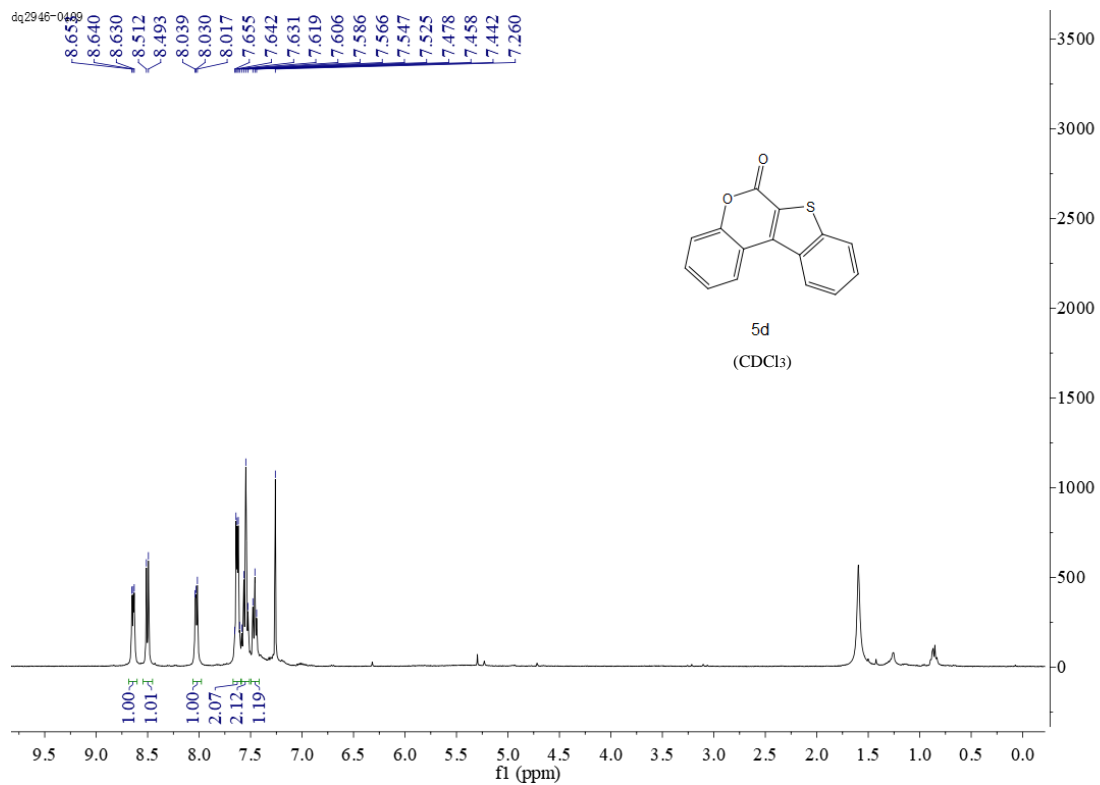


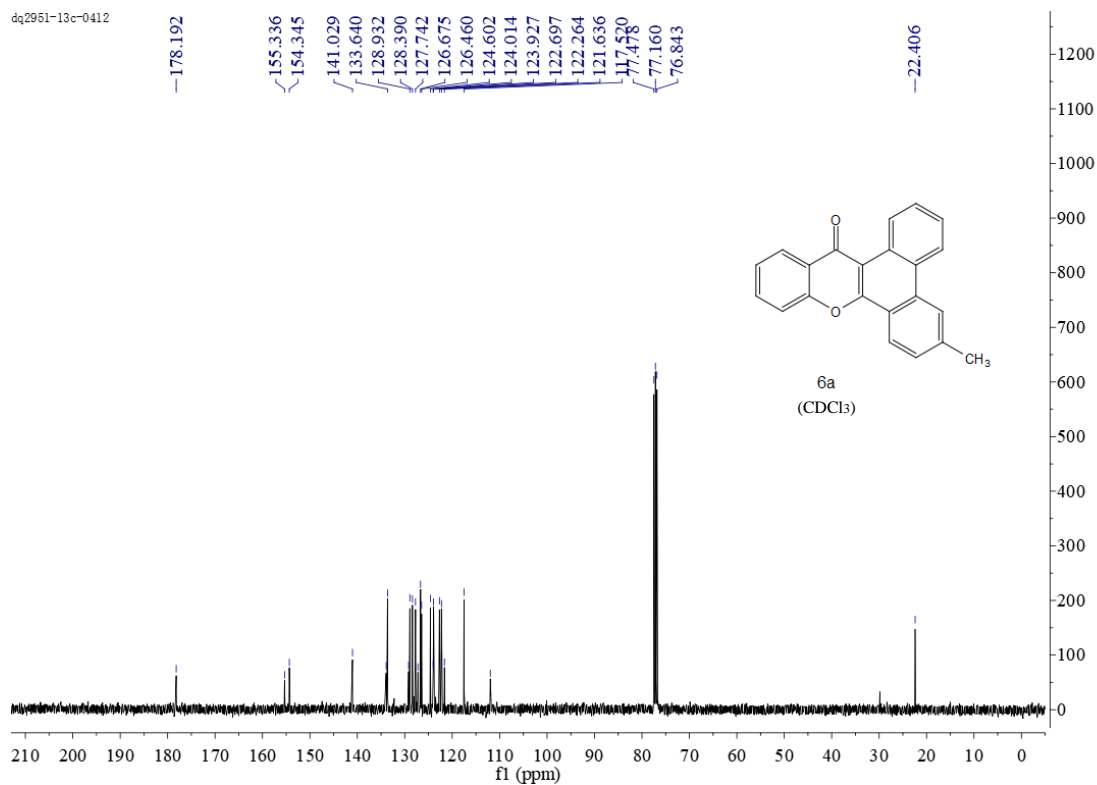
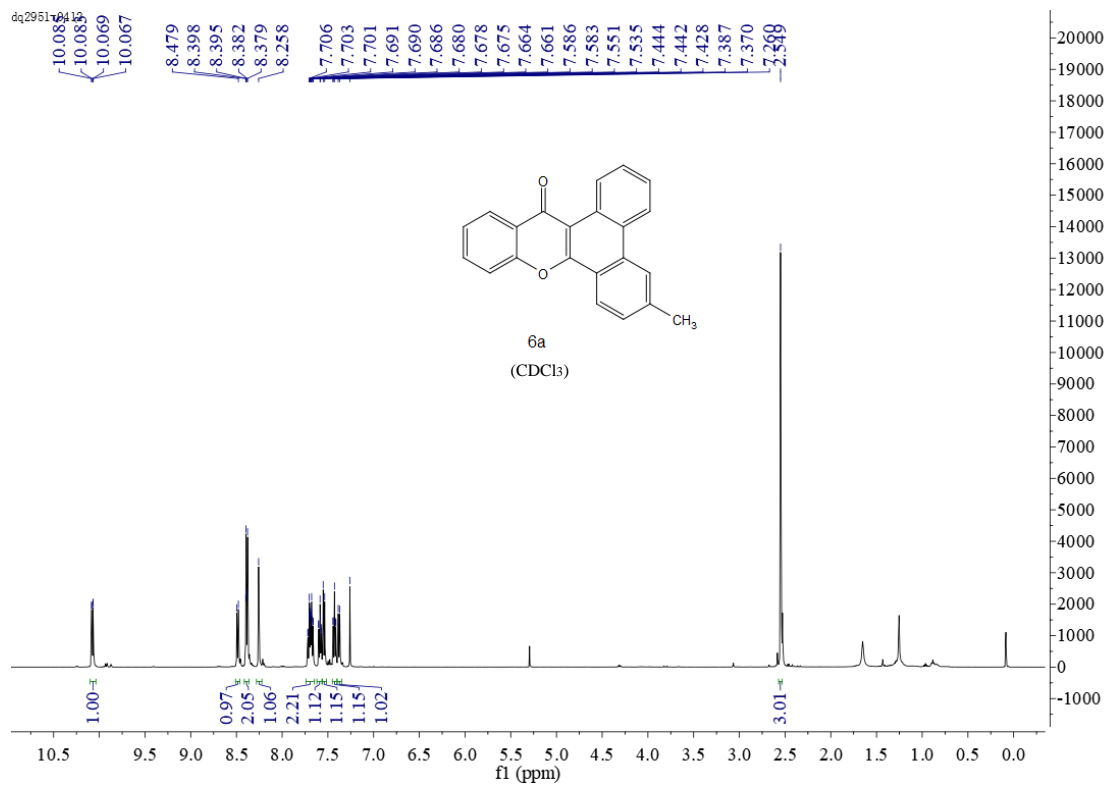


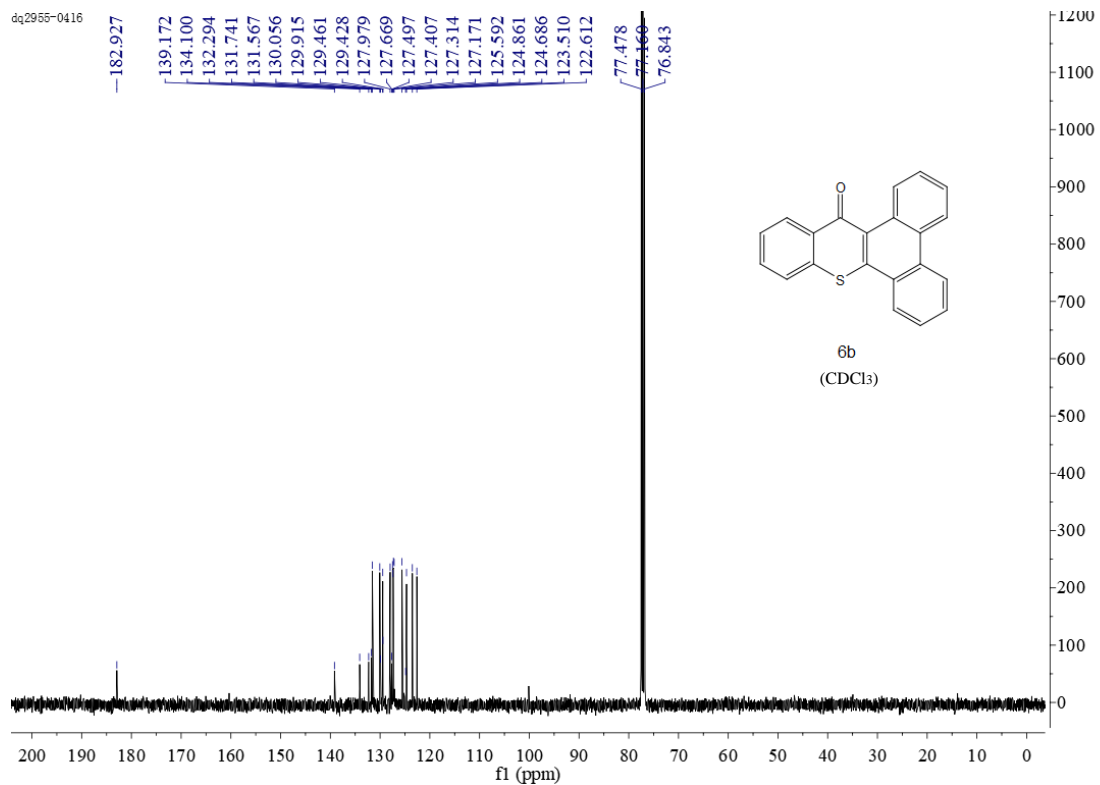
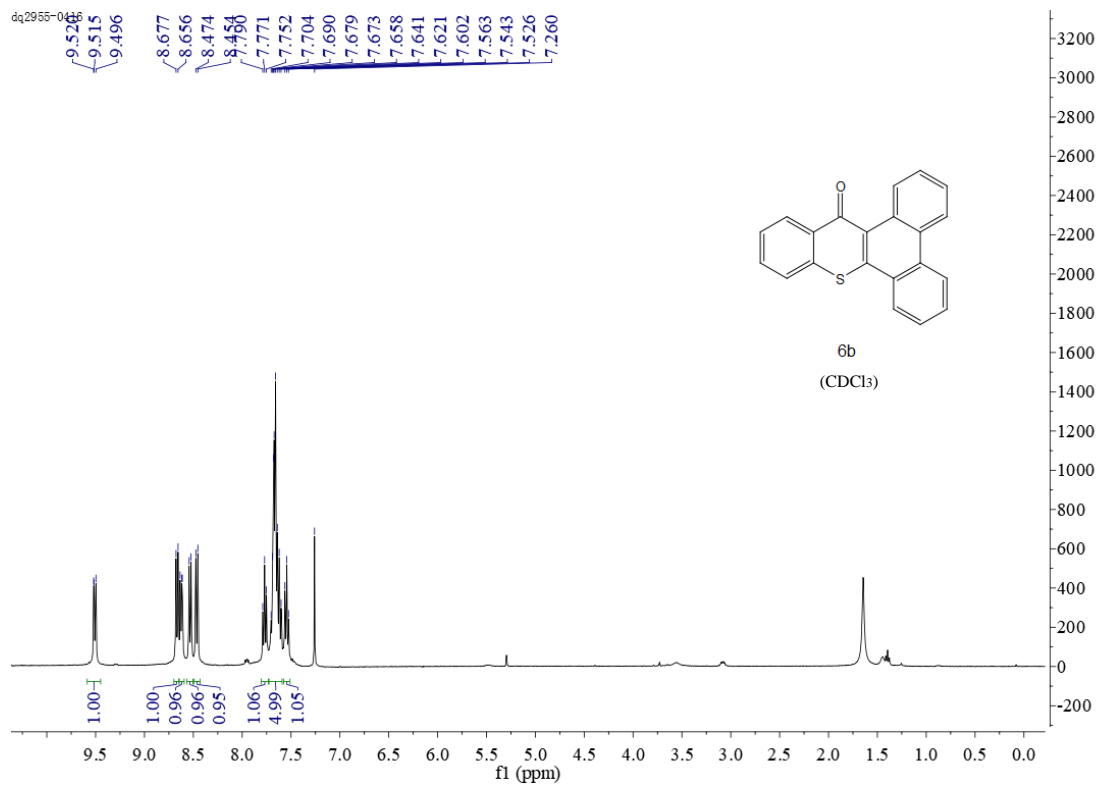


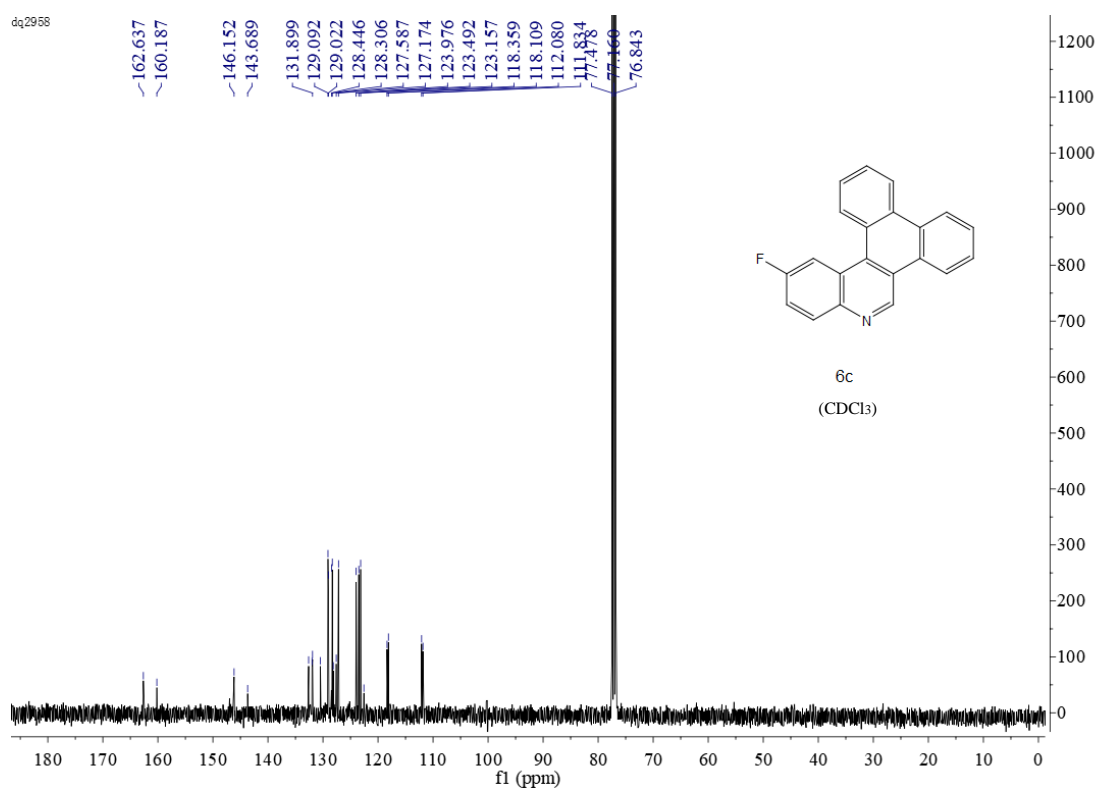
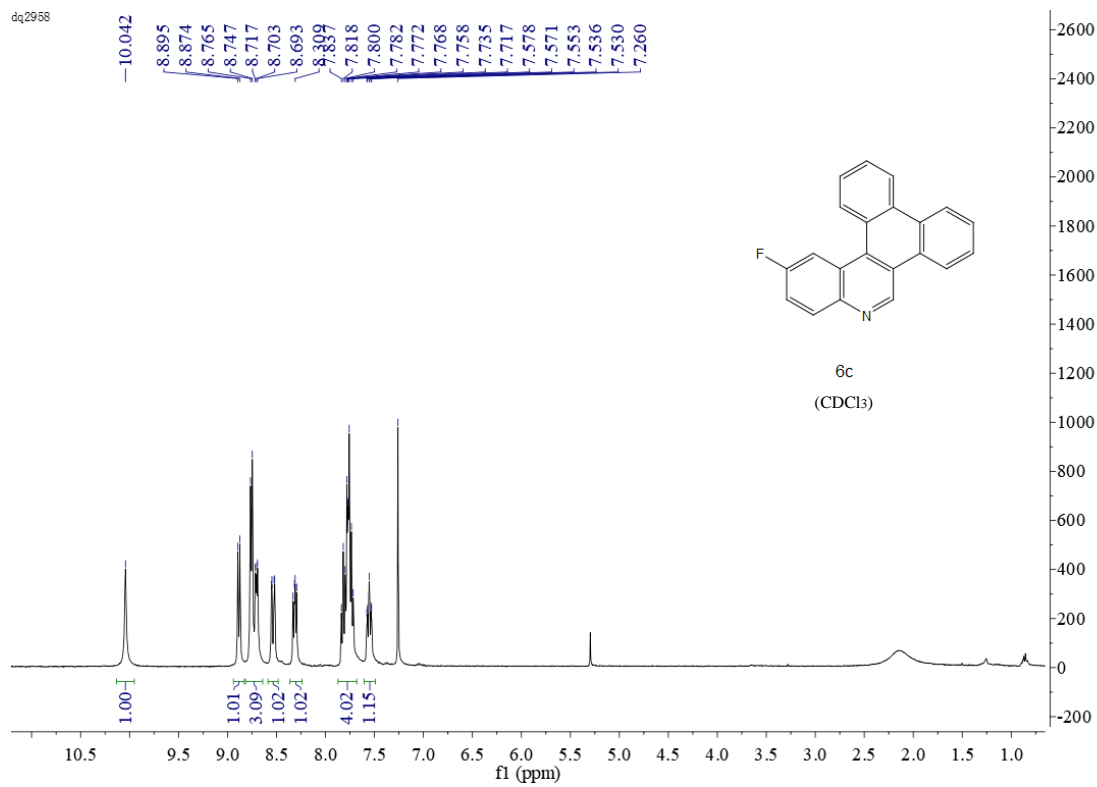
dq2945-1h-0409

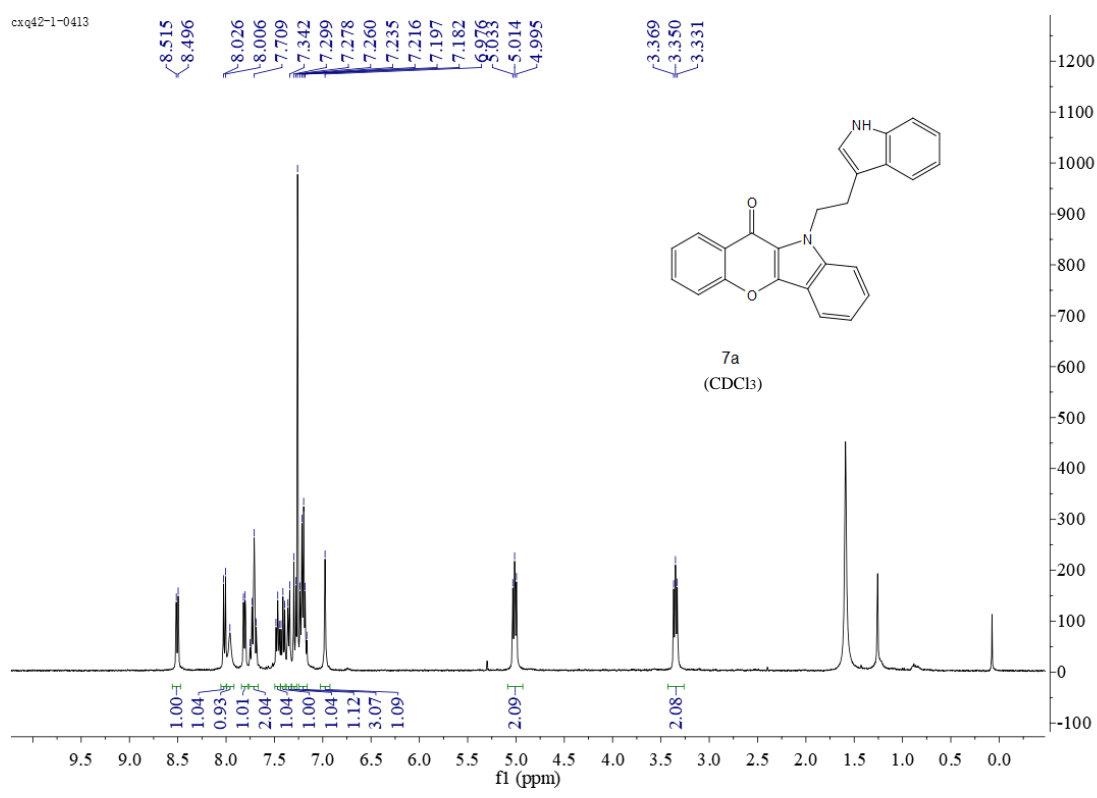
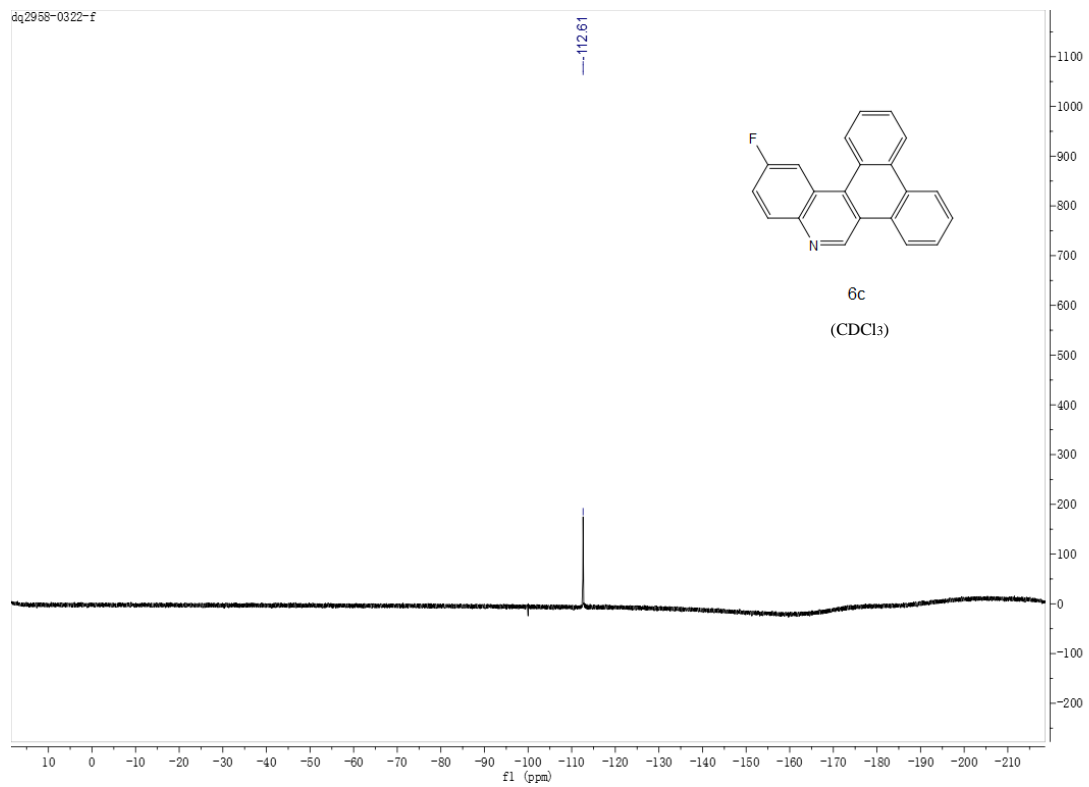


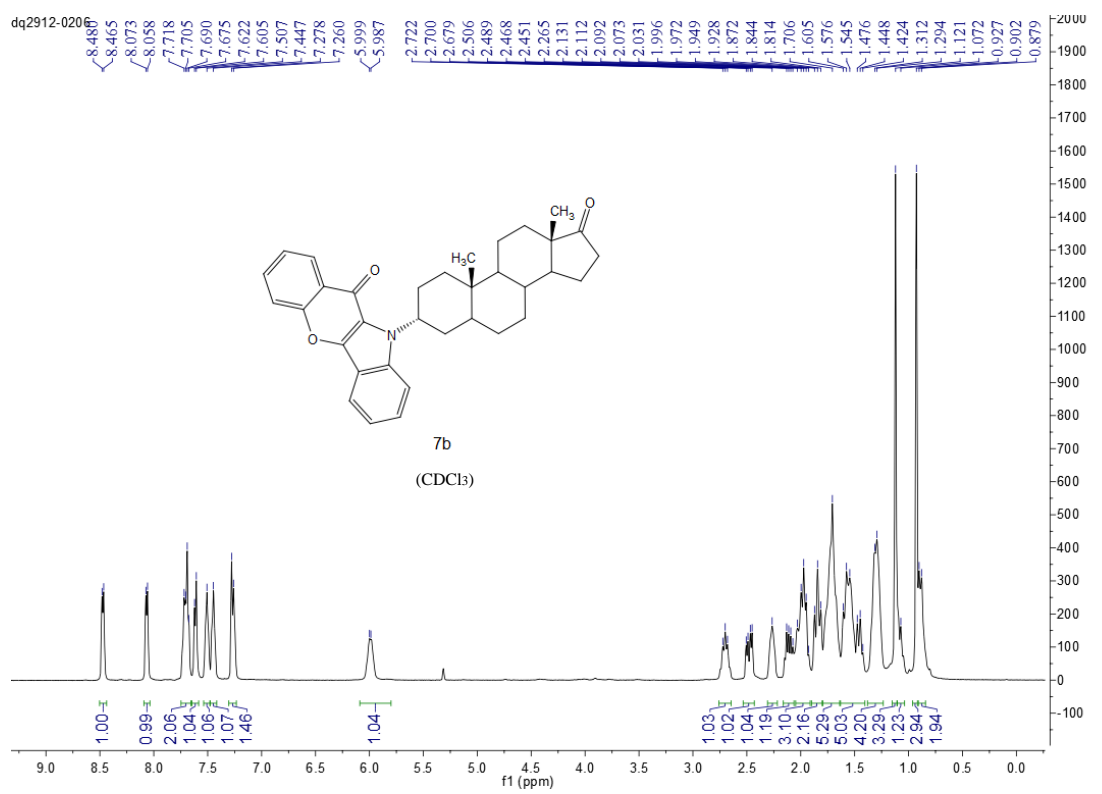
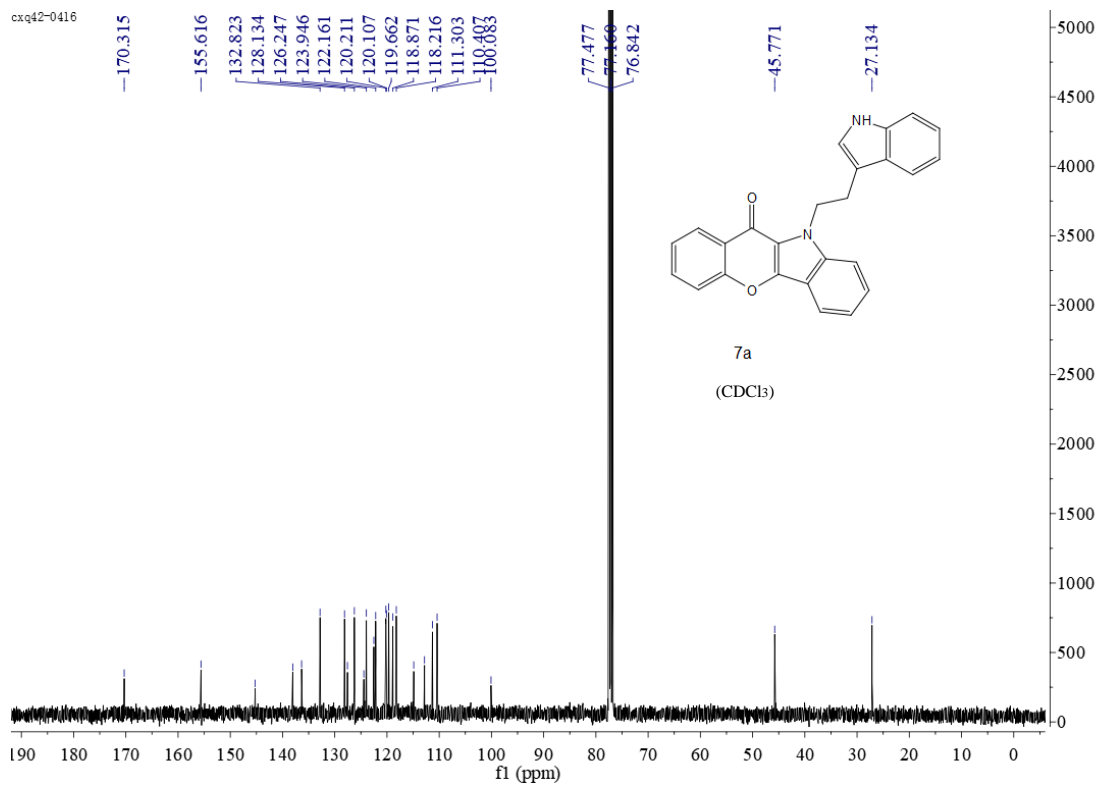


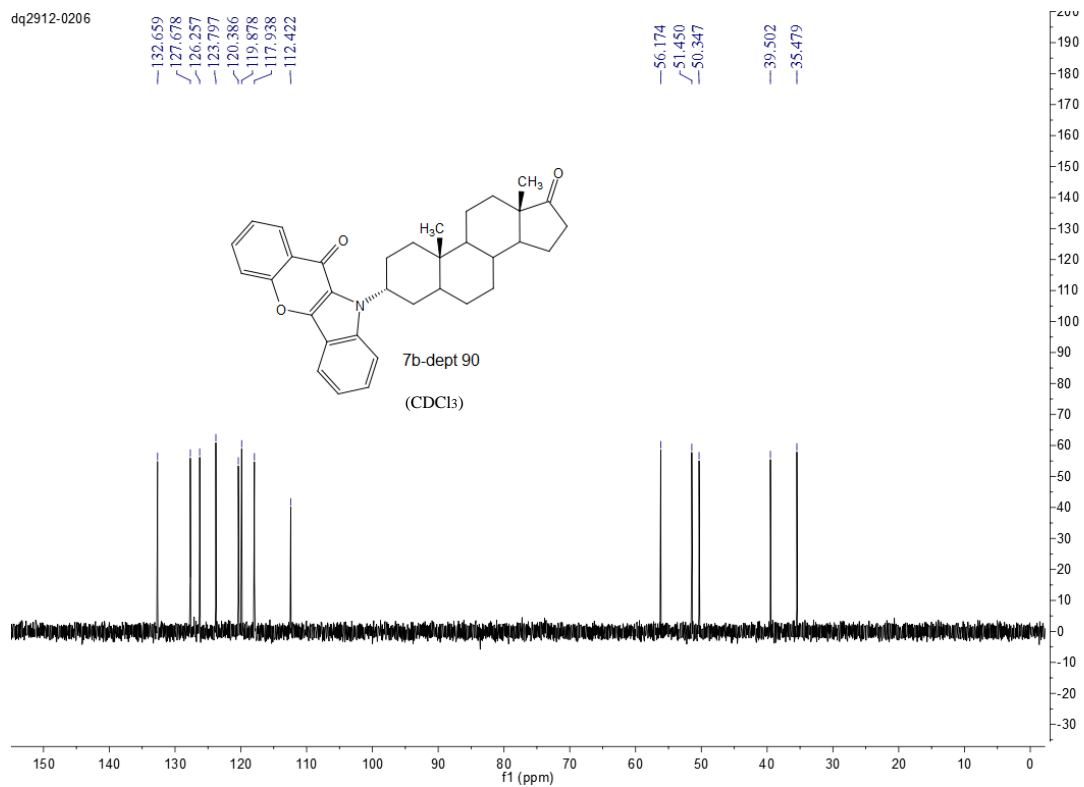
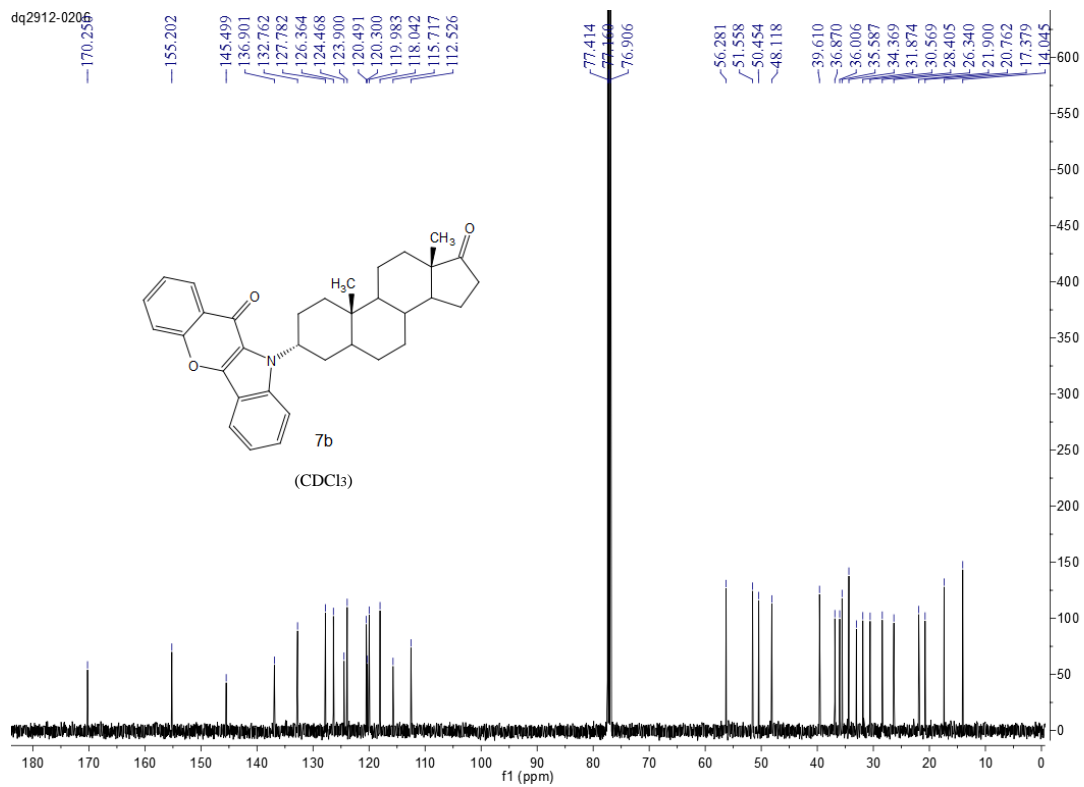












dq2912-0206

