

Supplementary Material

Facile access to synthetically challenging aryl naphthalenes *via* photoenolization/Diels–Alder/aromatization one-pot sequence

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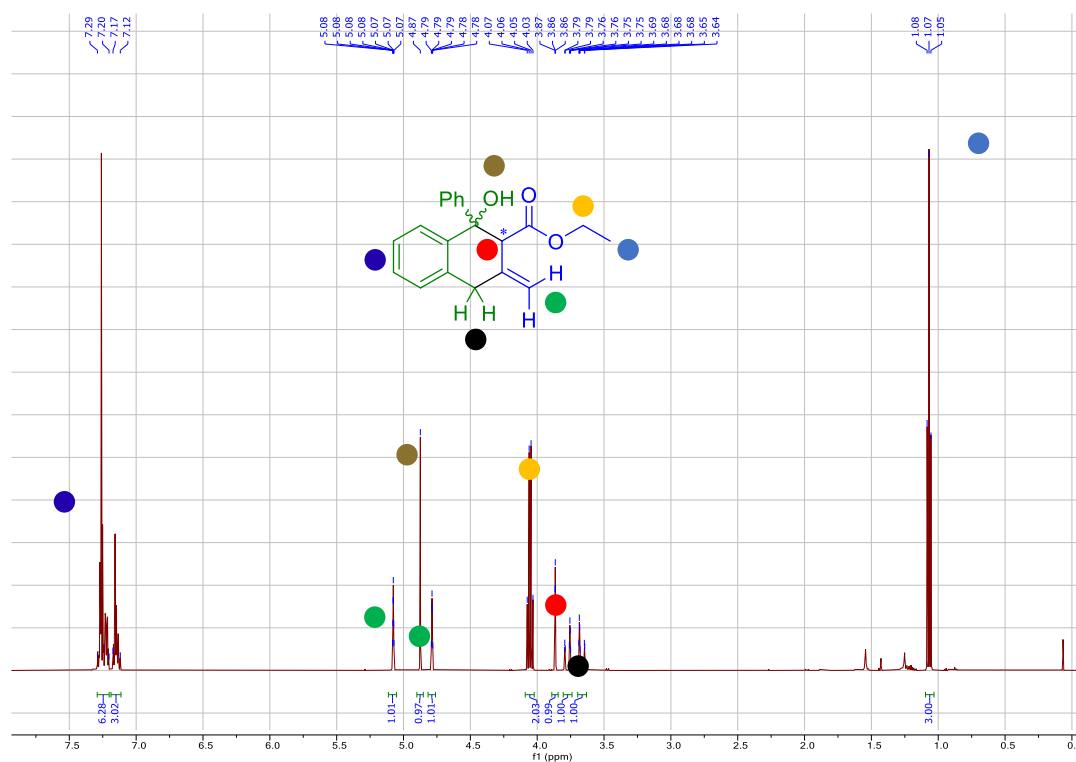
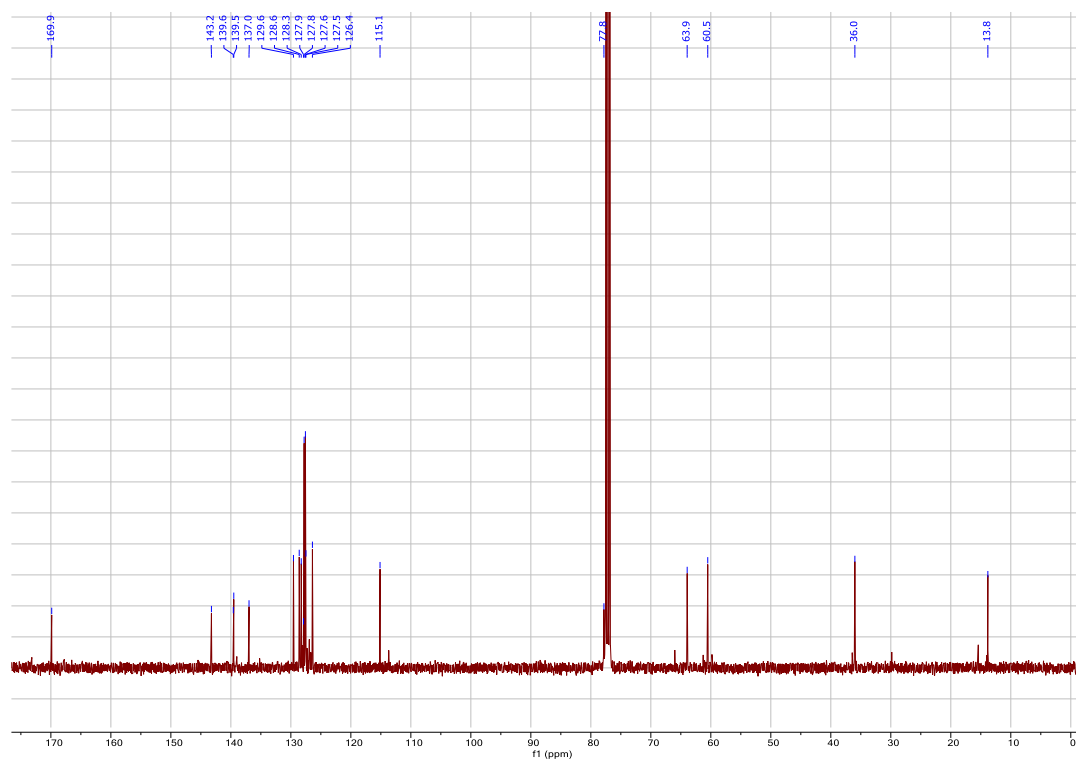
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1. Spectral data of compound 7

Figure S1. ¹H-NMR spectrum of compound 7.Figure S2. ¹³C-NMR spectrum of compound 7.

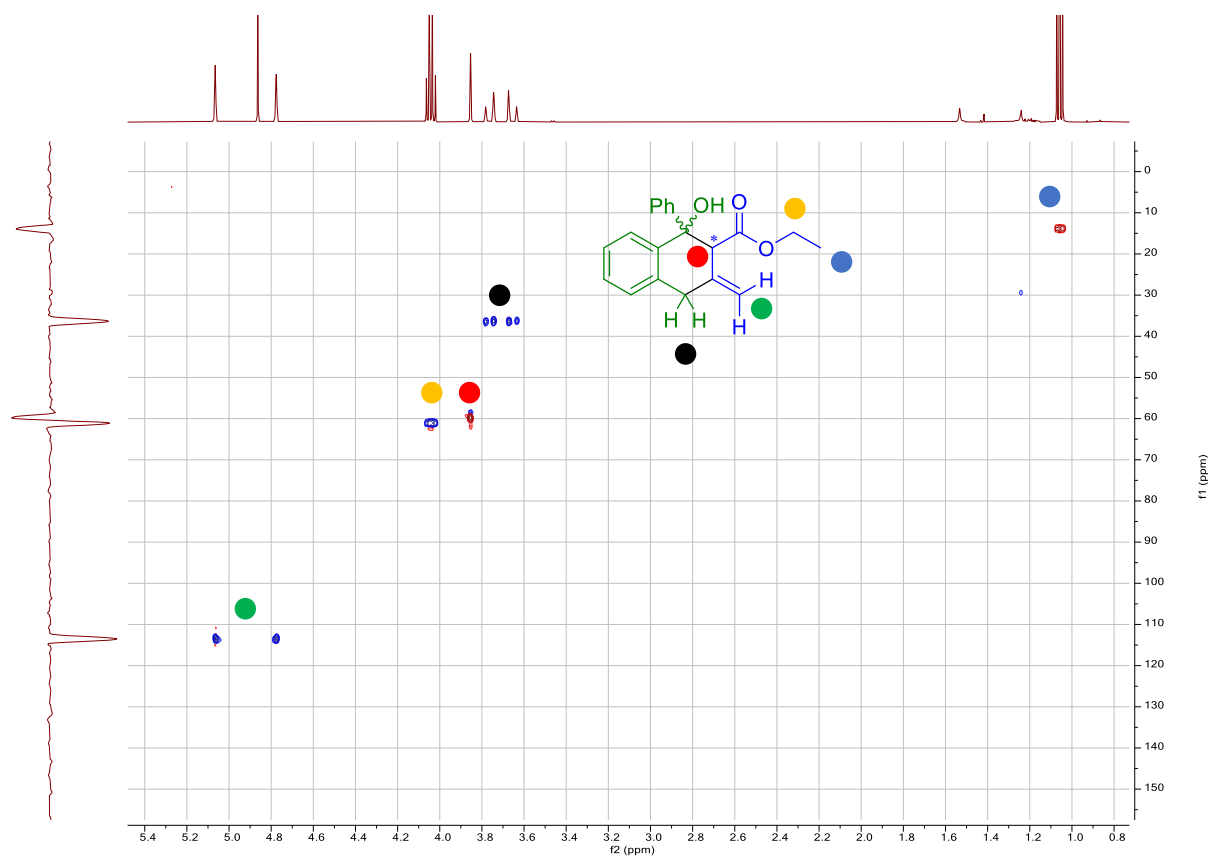


Figure S3. HSQC spectrum of compound 7.

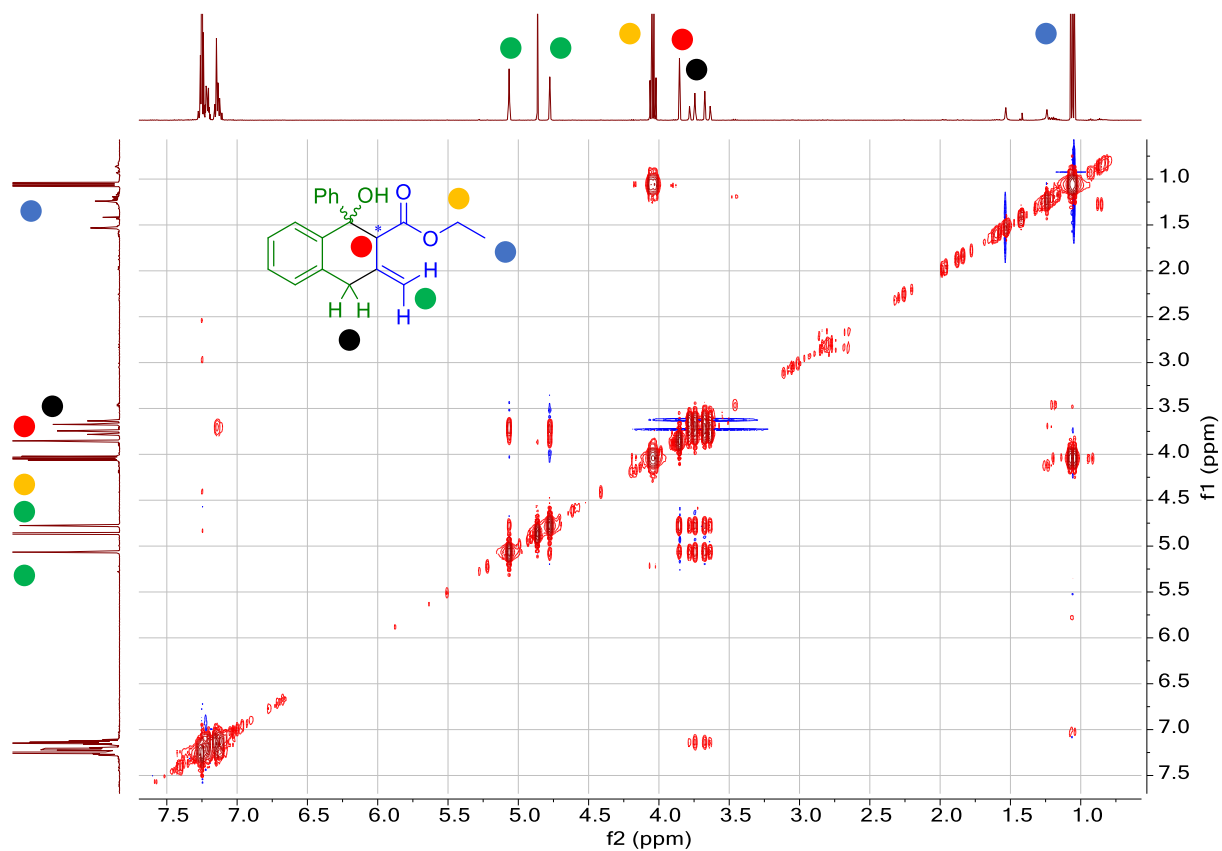
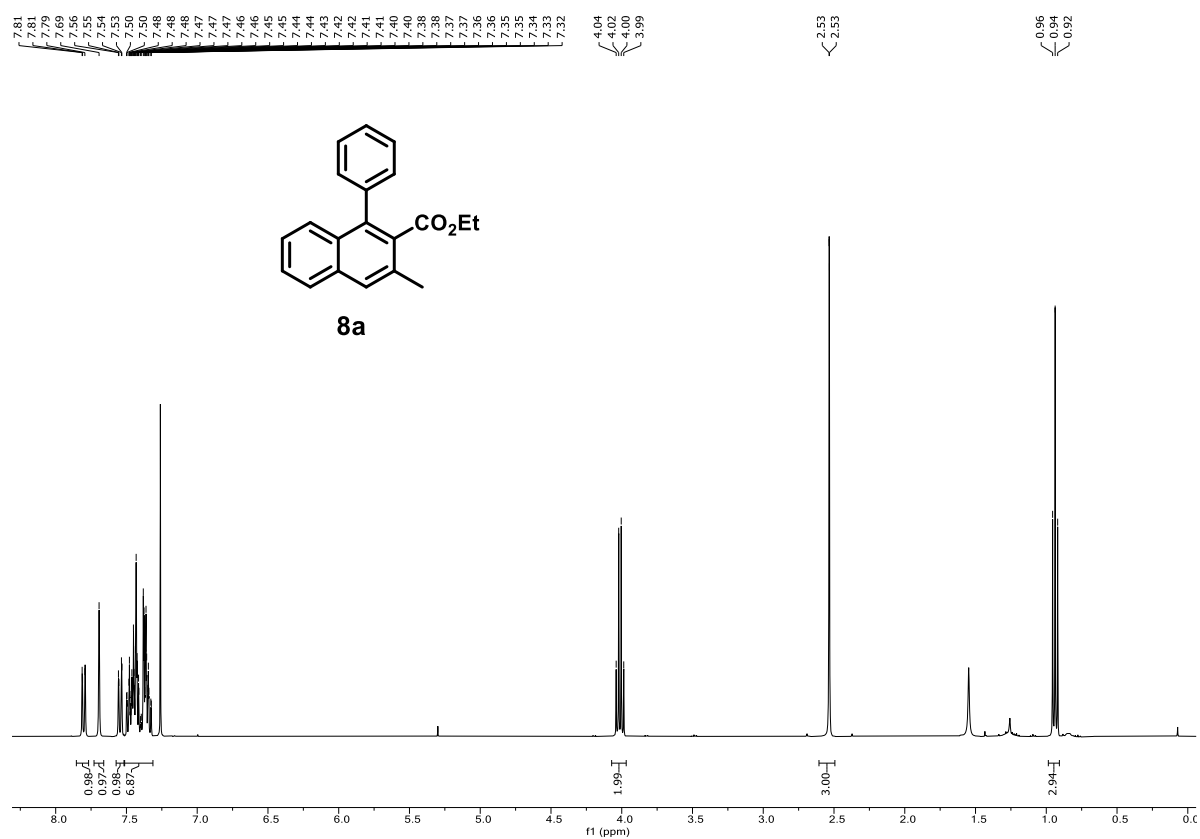
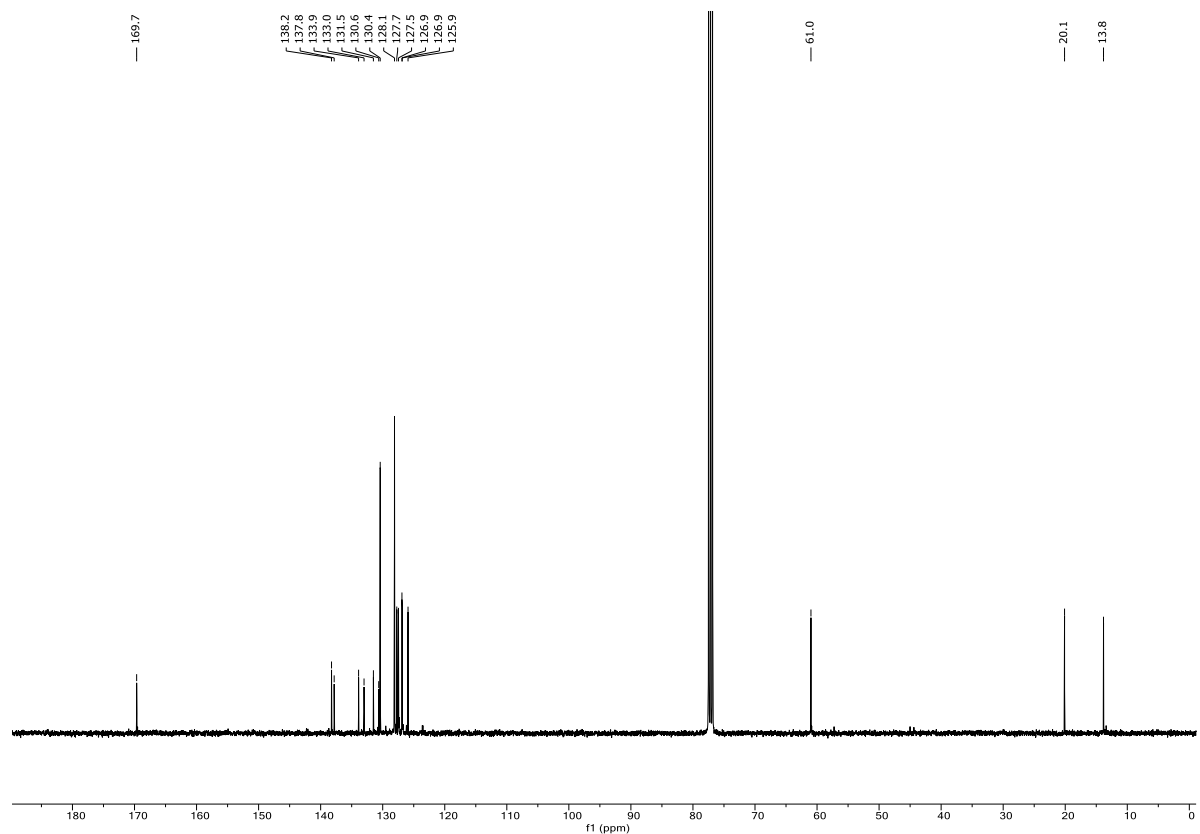
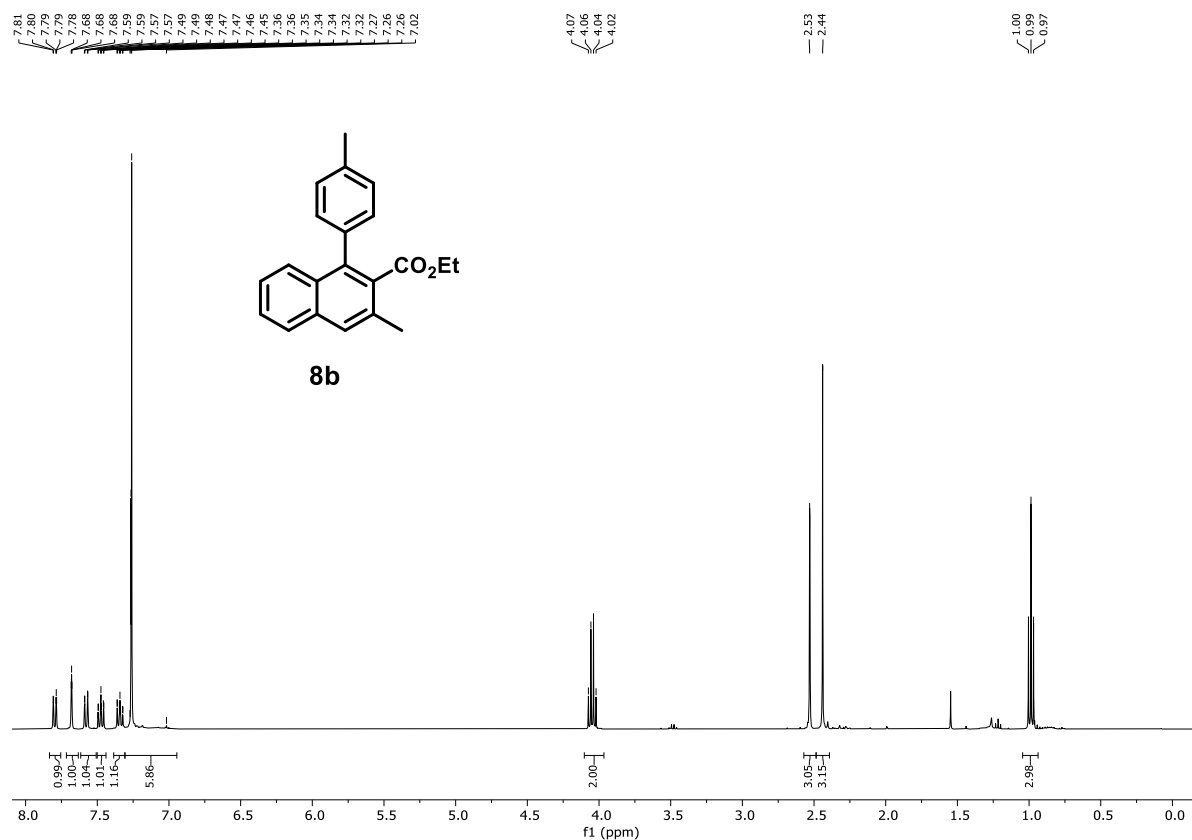
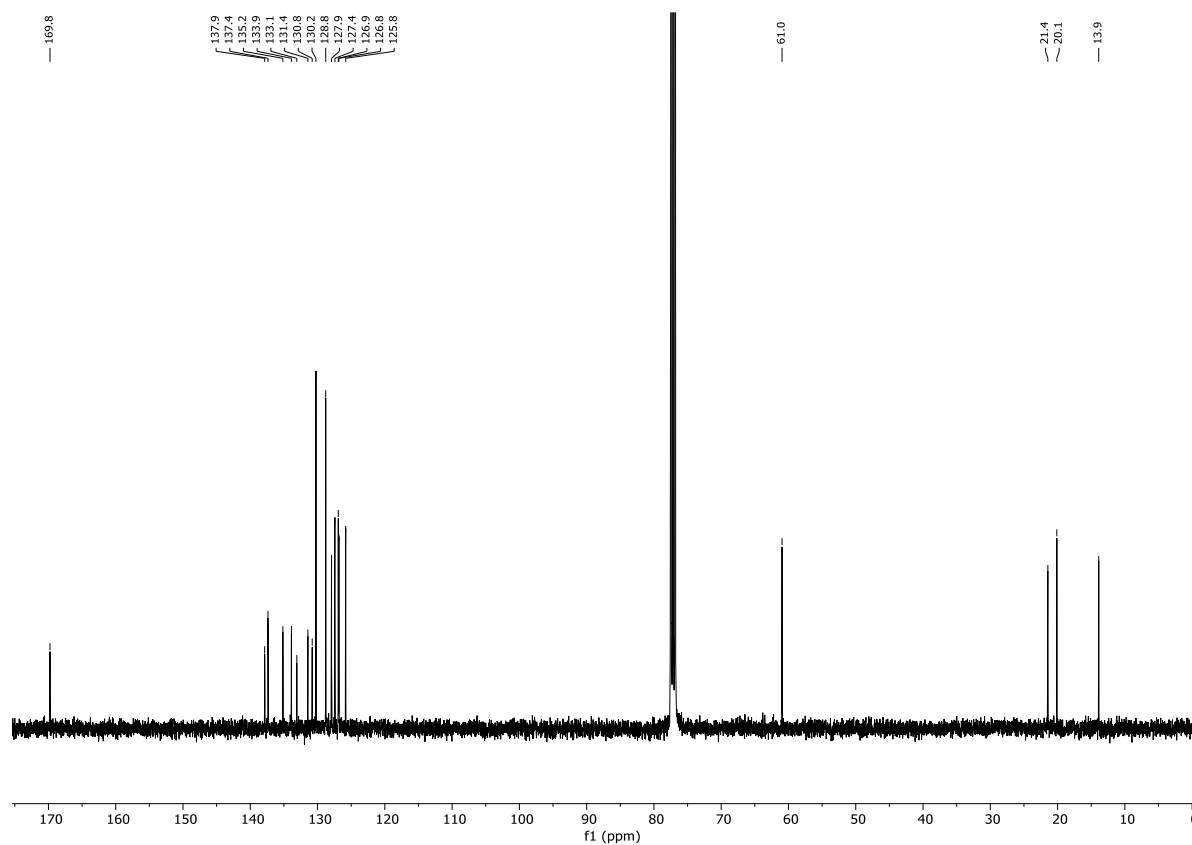
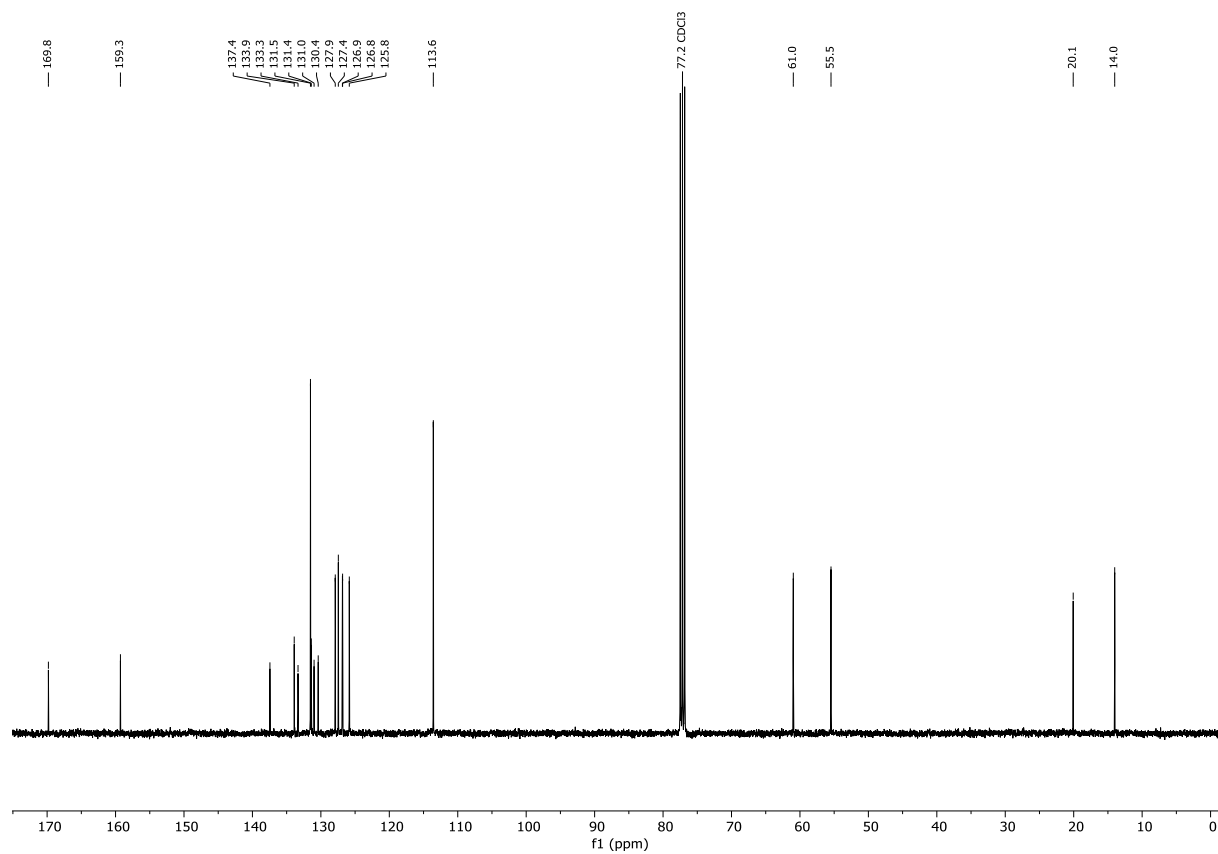


Figure S41. COSY spectrum of compound 7.

2. Spectral data of compounds **8a** - **8h**Figure S5. ¹H-NMR spectrum of compound **8a** (400 MHz, CDCl₃).Figure S6. ¹³C-NMR spectrum of compound **8a** (100 MHz, CDCl₃).

Figure S7. $^1\text{H-NMR}$ spectrum of compound **8b** (400 MHz, CDCl_3).Figure S8. $^{13}\text{C-NMR}$ spectrum of compound **8b** (100 MHz, CDCl_3).



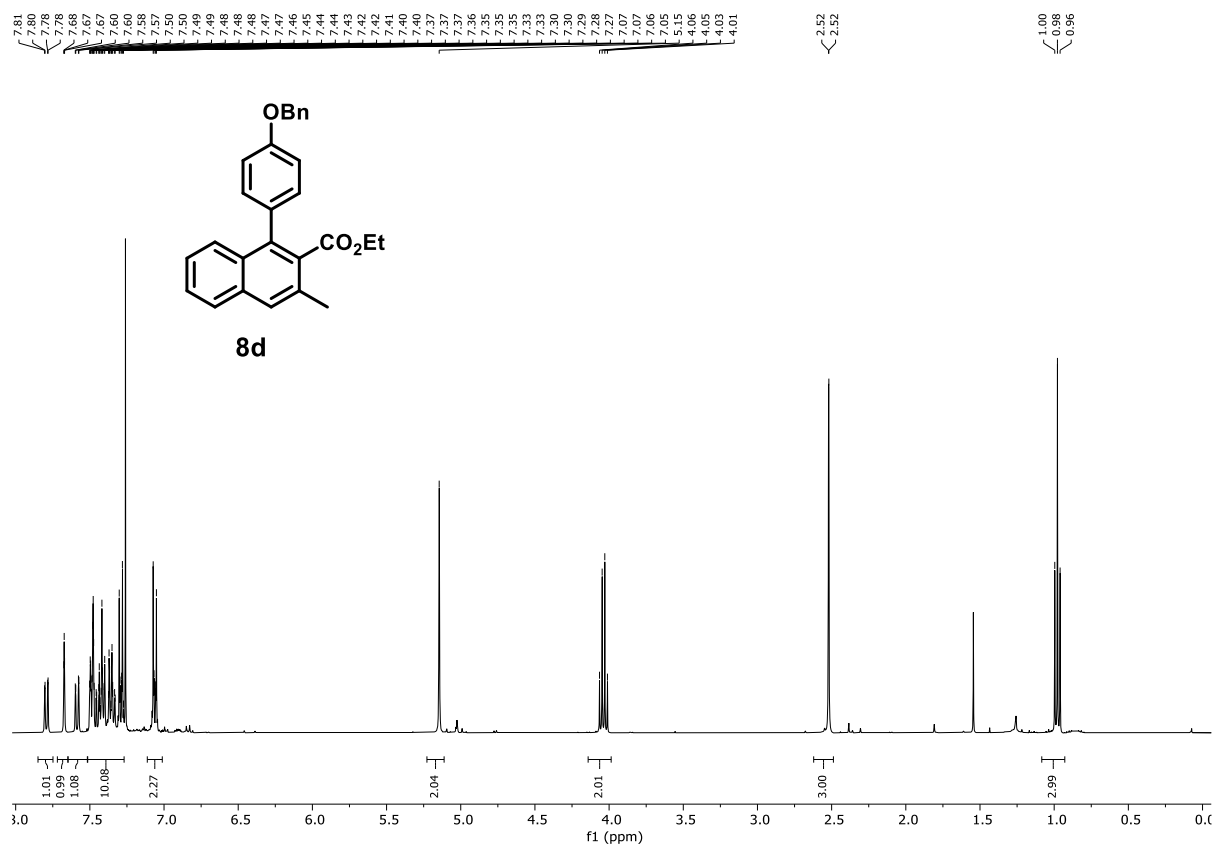


Figure S11. $^1\text{H-NMR}$ spectrum of compound **8d** (400 MHz, CDCl_3).

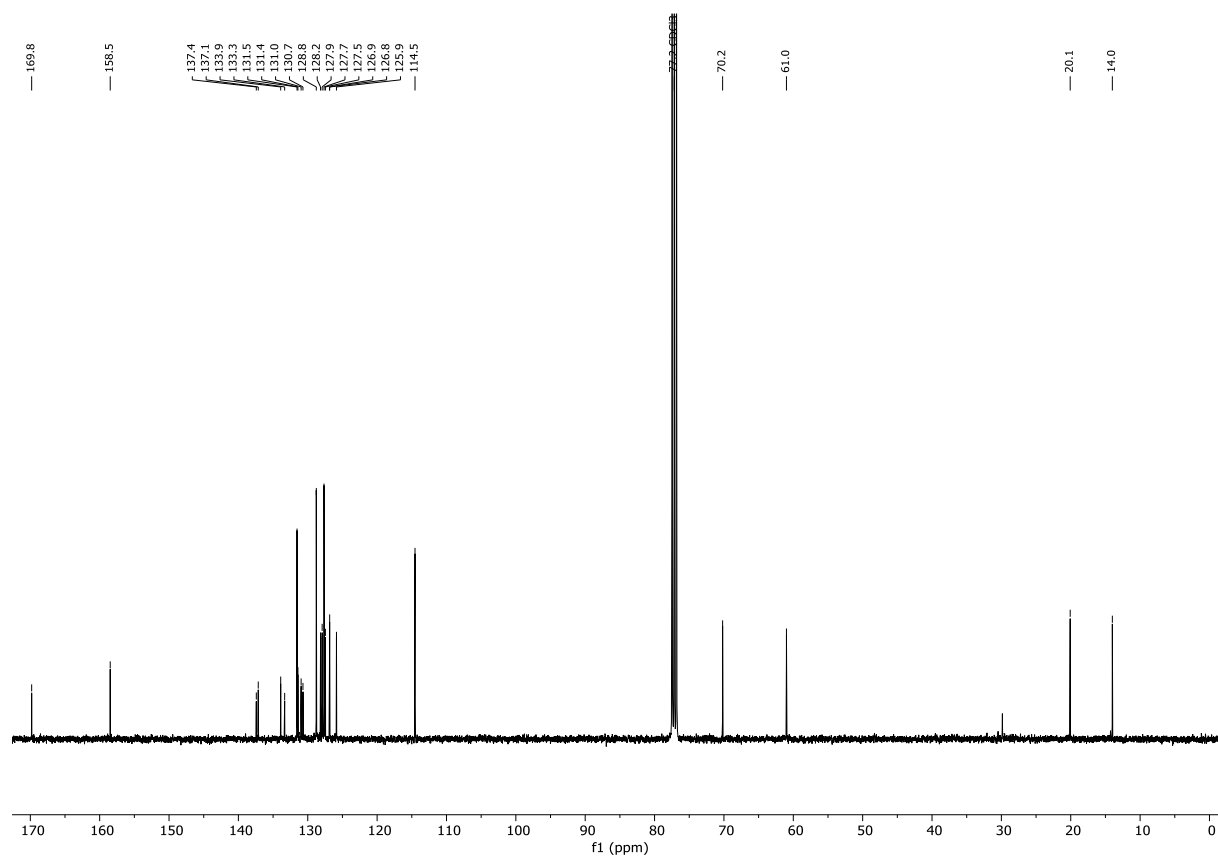
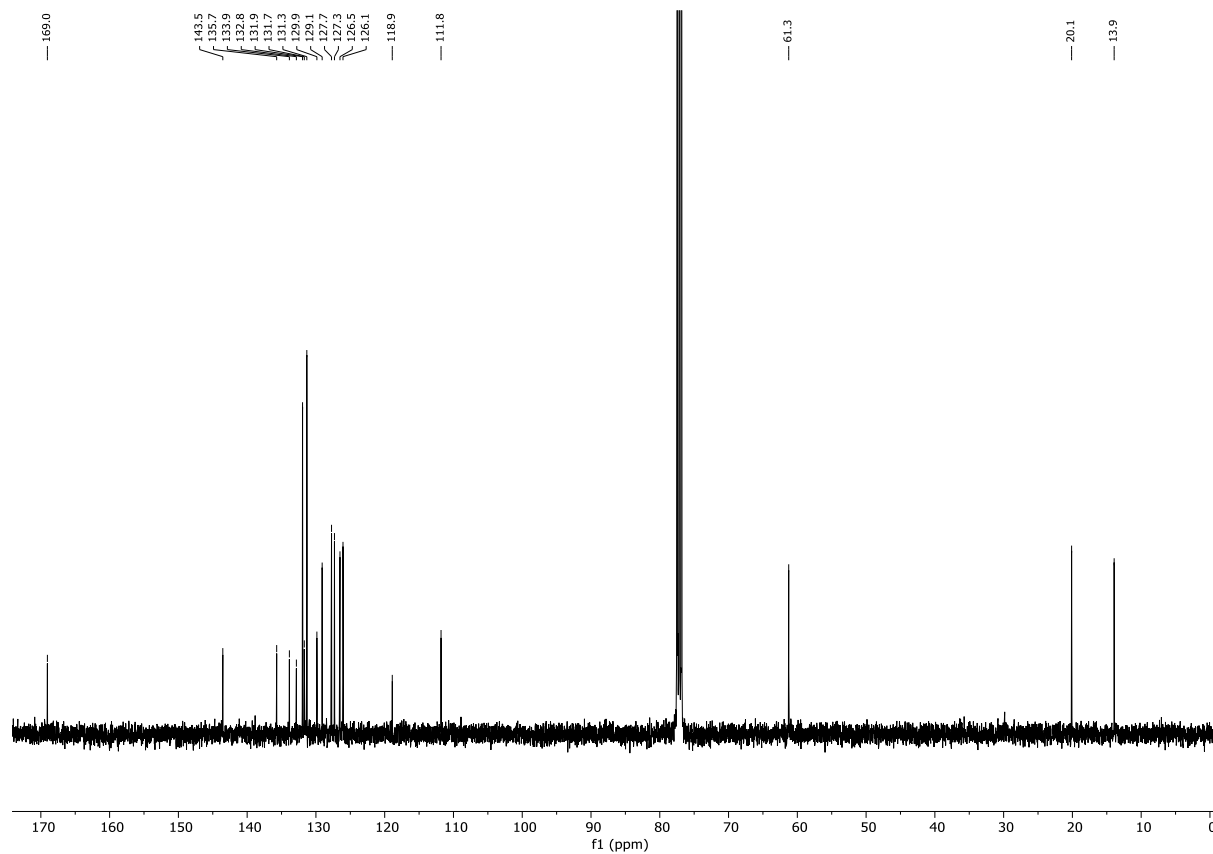
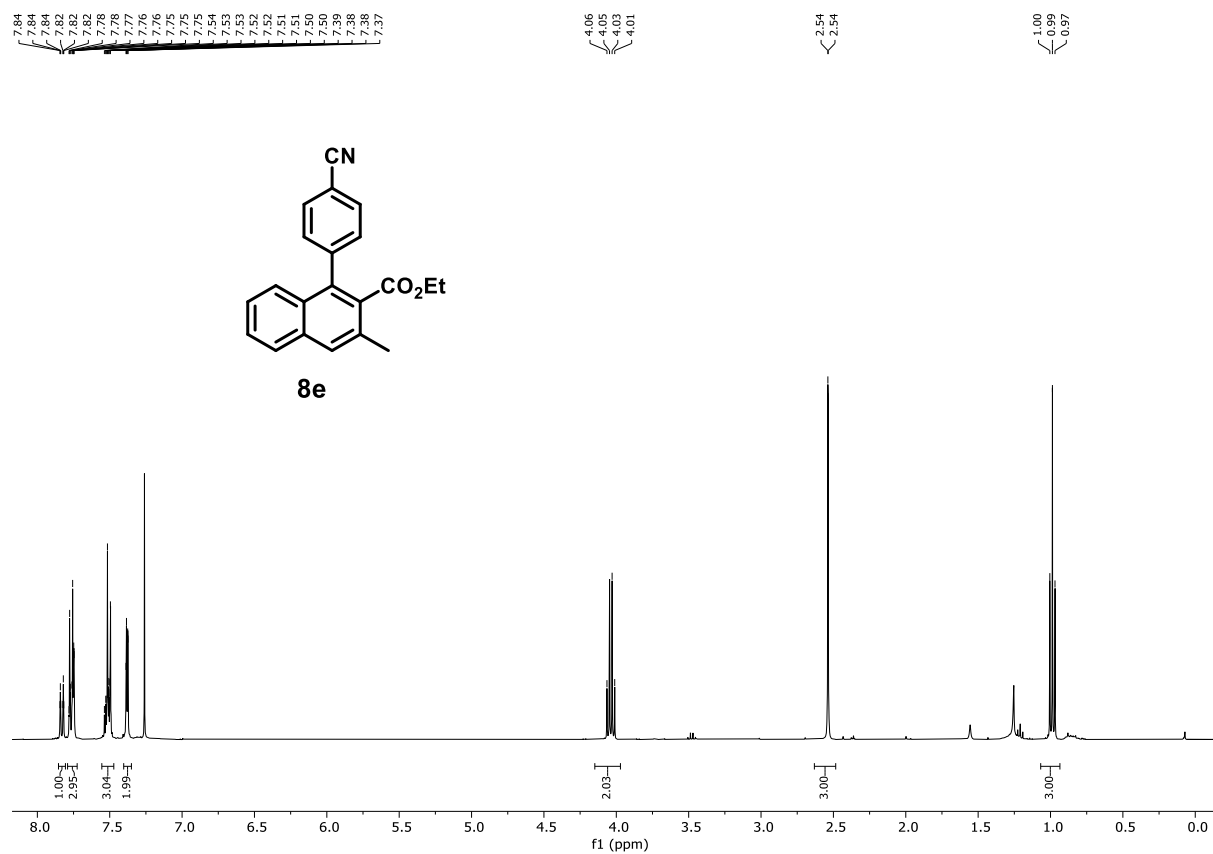
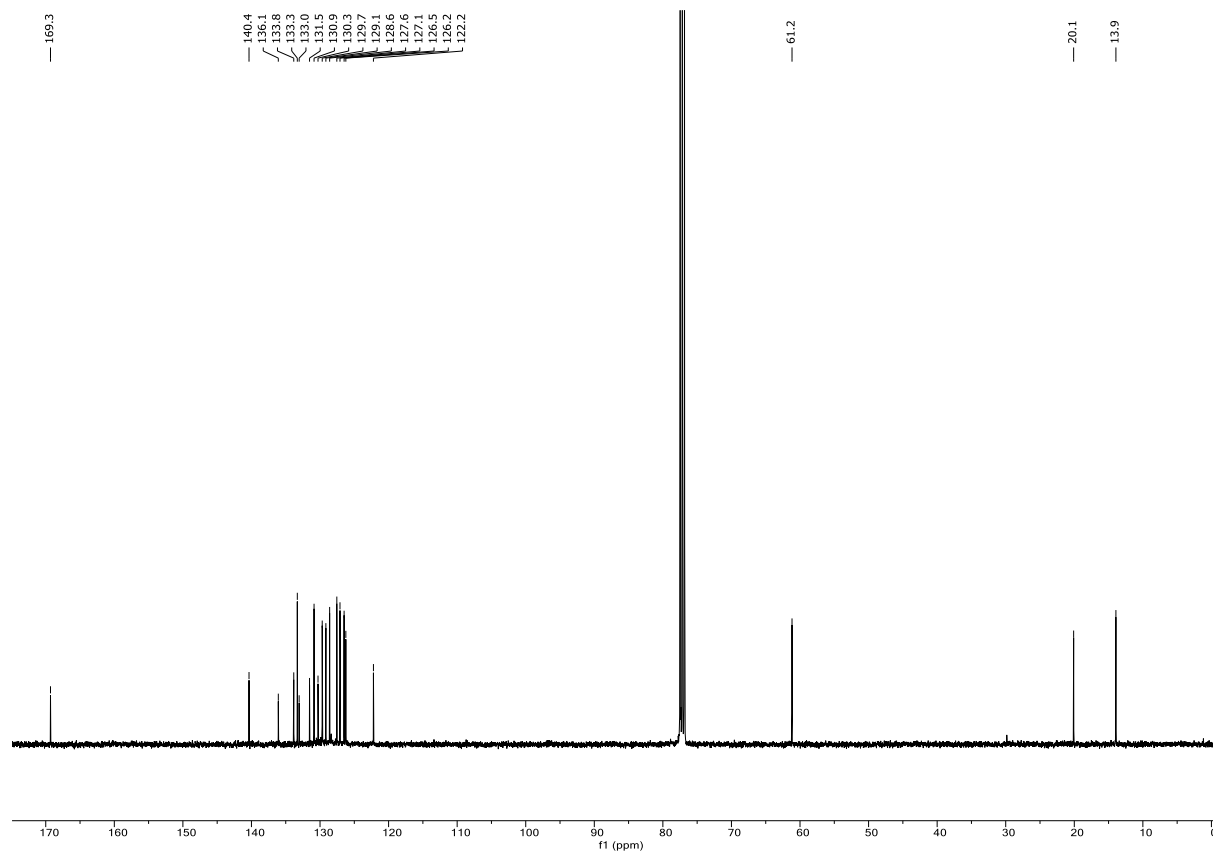
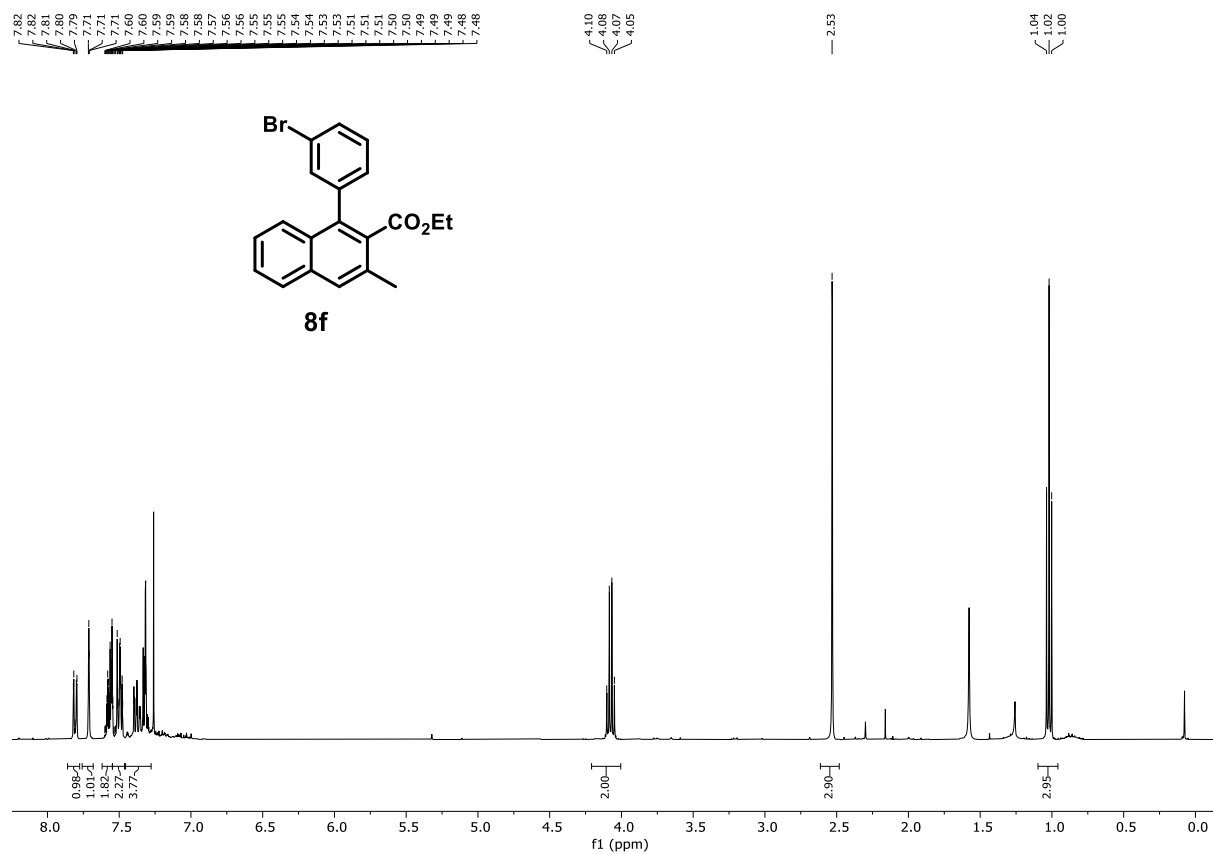


Figure S12. $^{13}\text{C-NMR}$ spectrum of compound **8d** (100 MHz, CDCl_3).





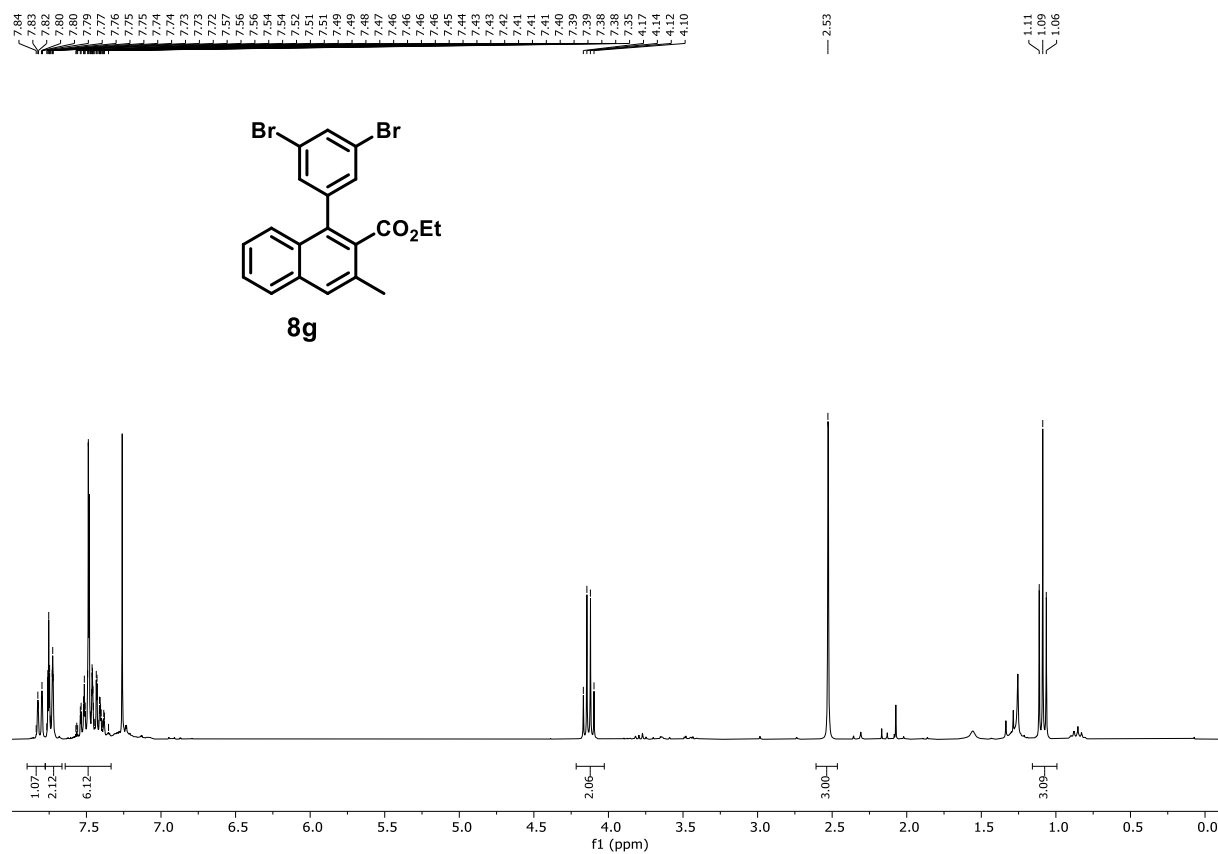


Figure S17. $^1\text{H-NMR}$ spectrum of compound **8g** (400 MHz, CDCl_3).

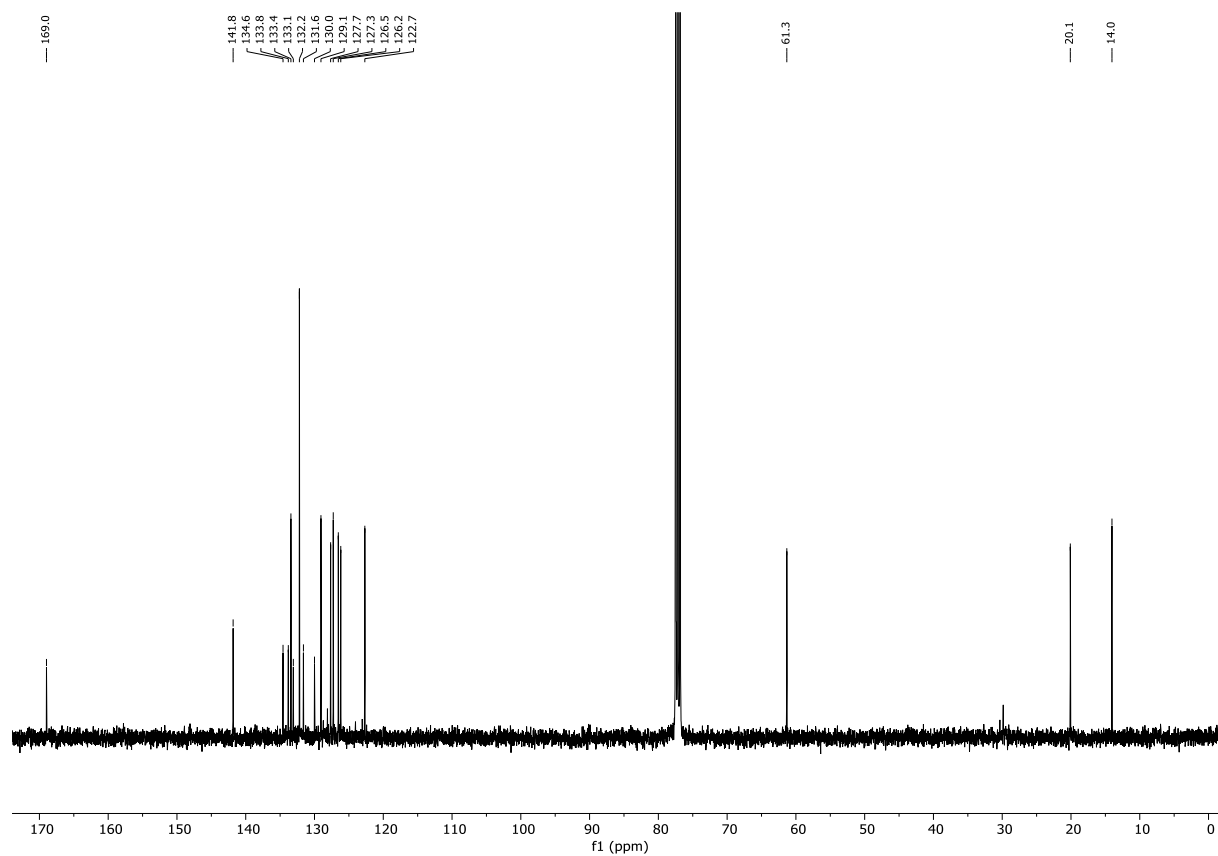


Figure S18. $^{13}\text{C-NMR}$ spectrum of compound **8g** (100 MHz, CDCl_3).

