

Sequential Olefination-Dimerization of Benzylic Dithioacetals under Nickel-catalyzed Reaction with Methyl Grignard or Zinc Reagent

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1 NMR spectra of dithioacetals.

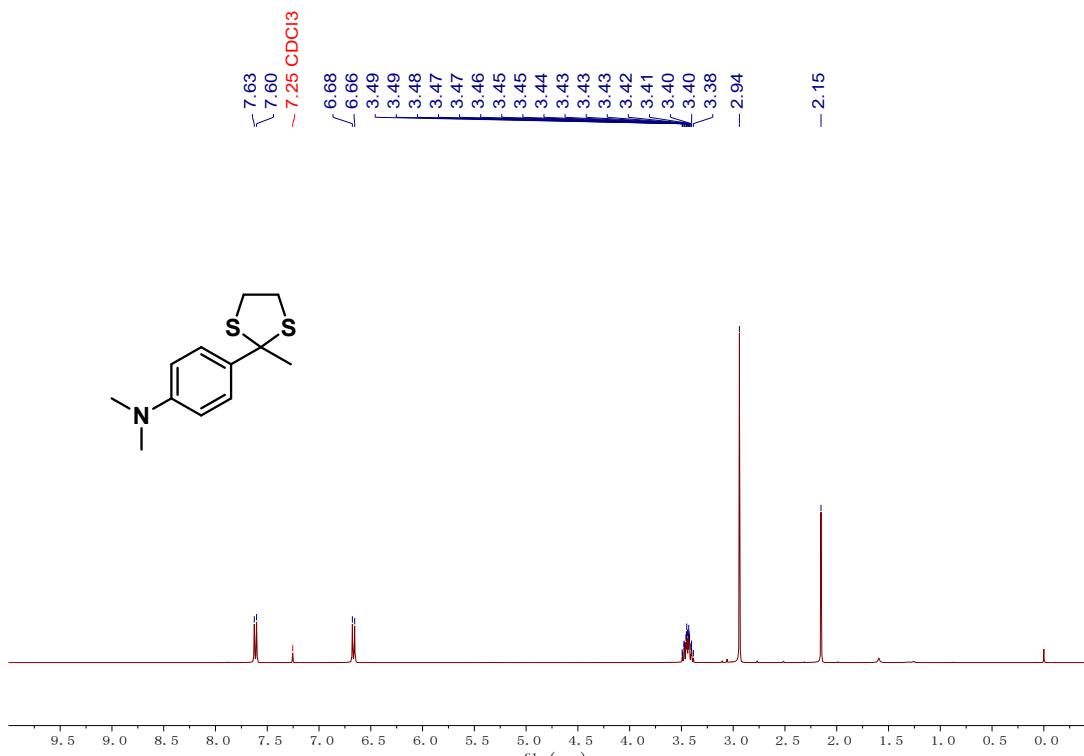


Figure S1. ¹H NMR spectrum of 5a

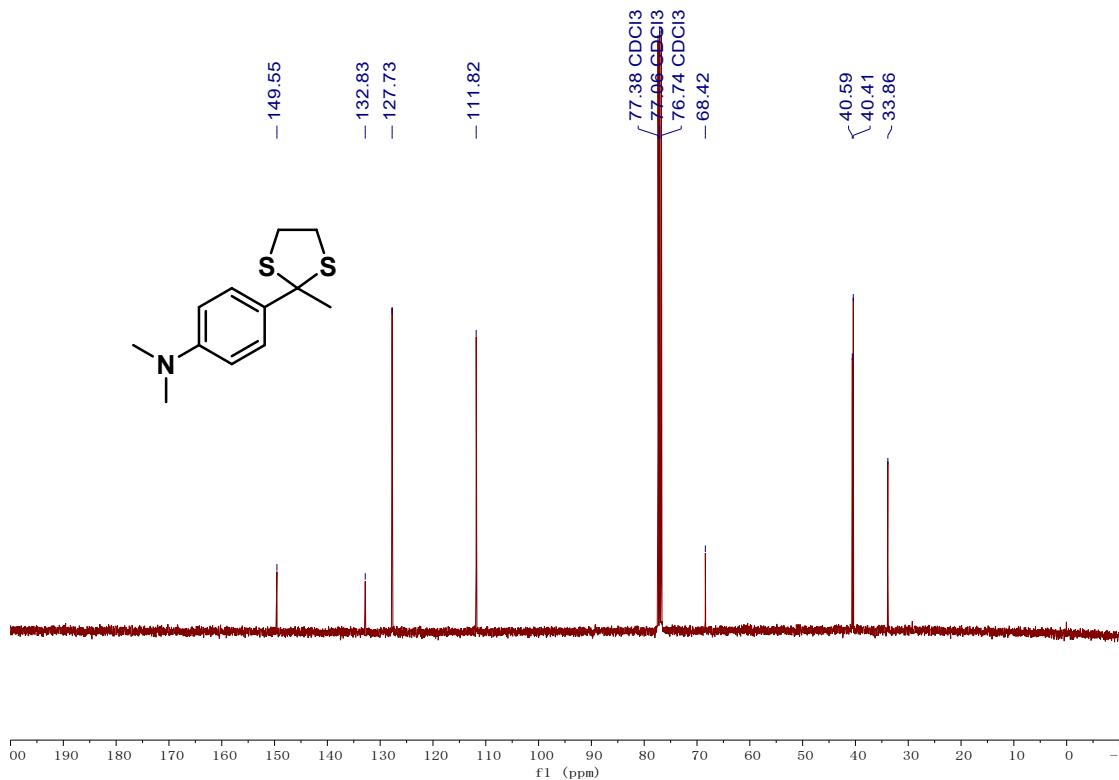


Figure S2. ^{13}C NMR spectrum of **5a**

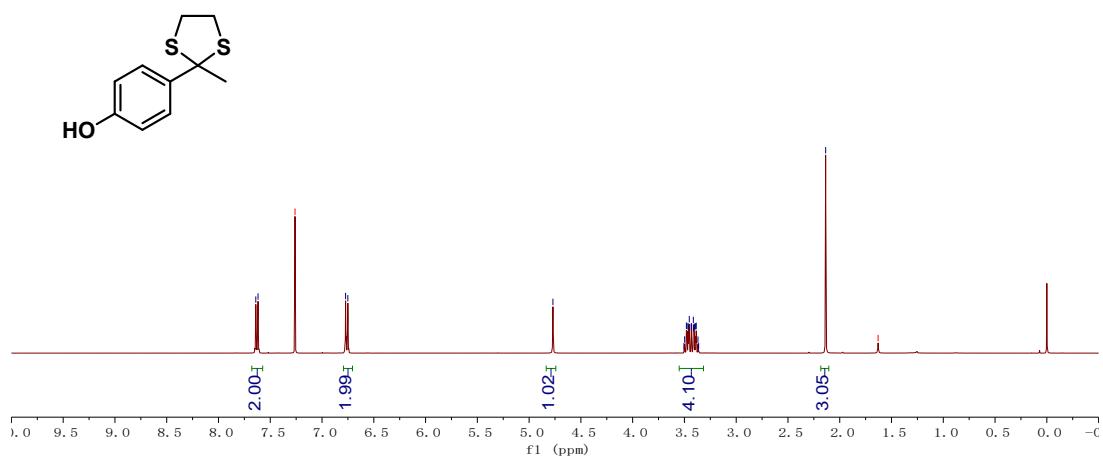
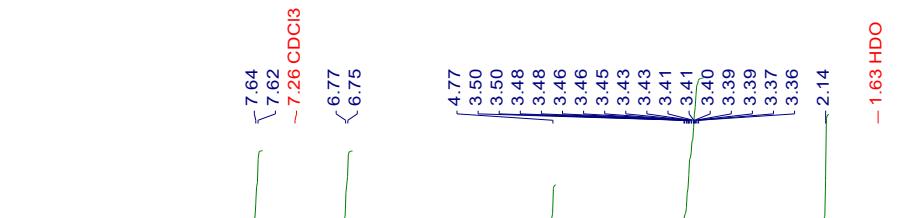


Figure S3. ^1H NMR spectrum of **5b**

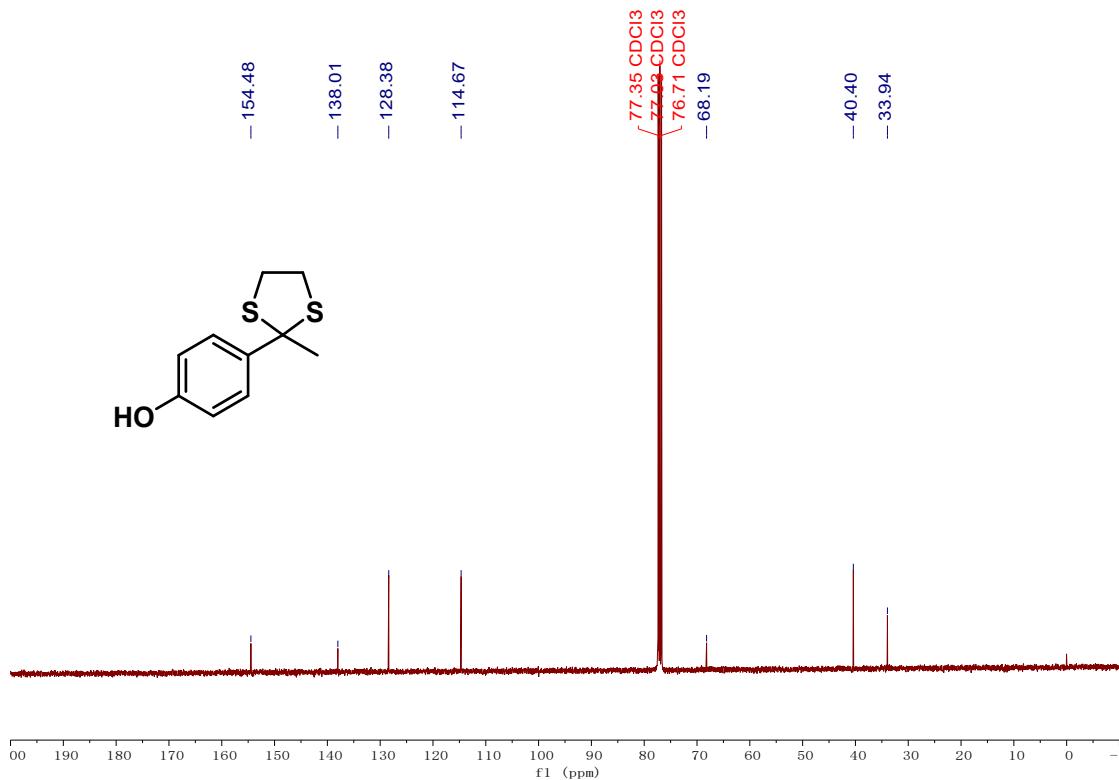


Figure S4. ^{13}C NMR spectrum of **5b**

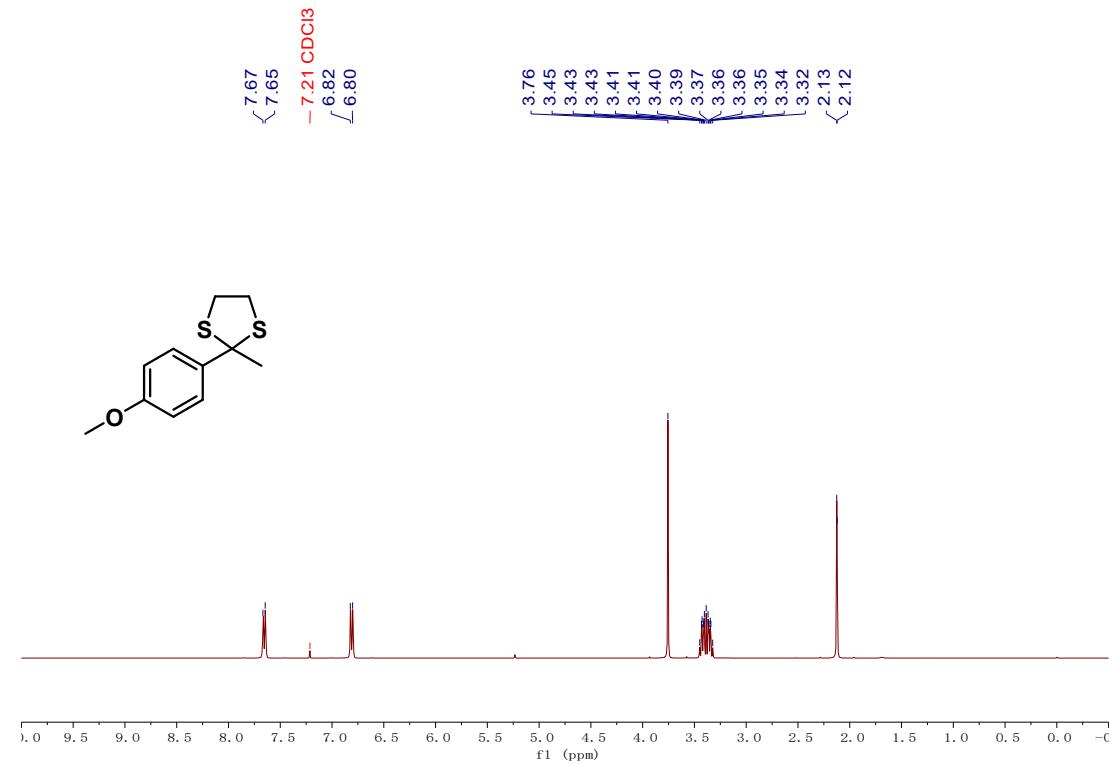


Figure S5. ^1H NMR spectrum of **5c**

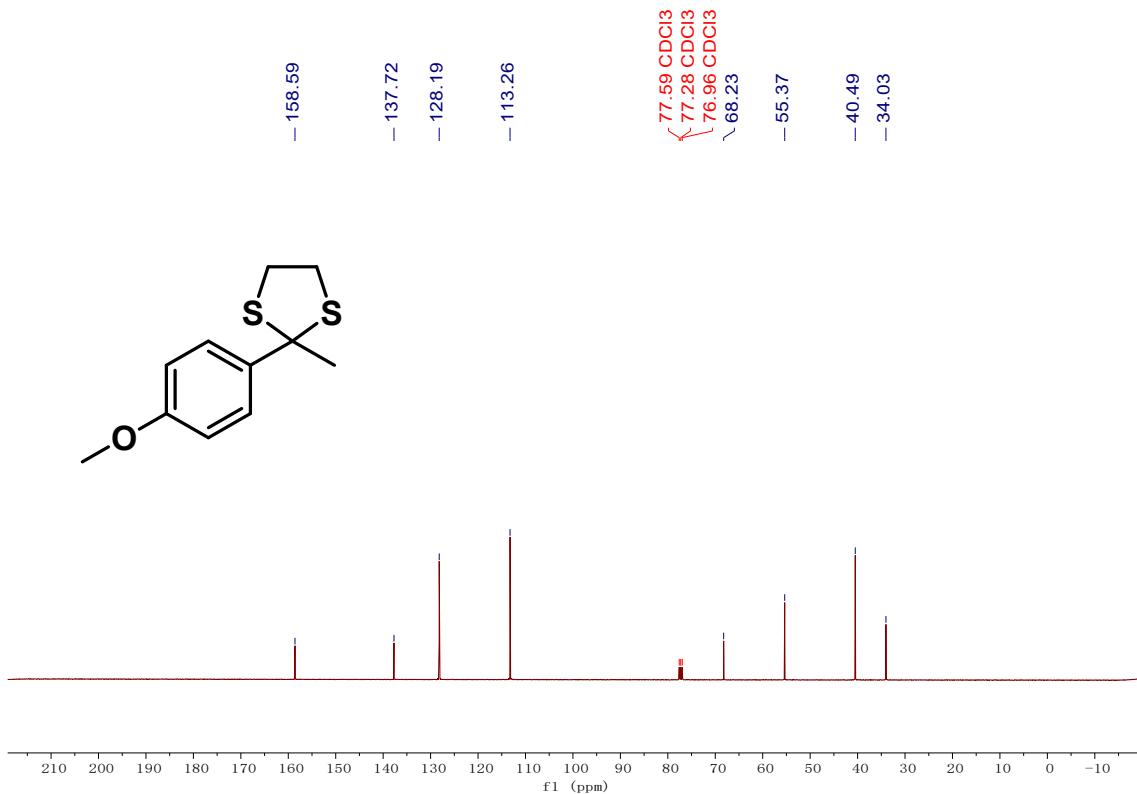


Figure S6. ^{13}C NMR spectrum of 5c

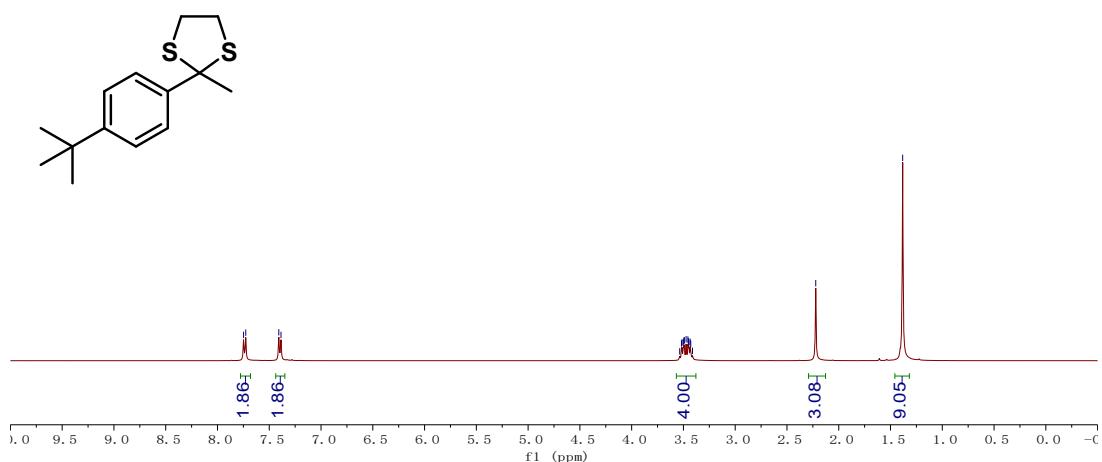
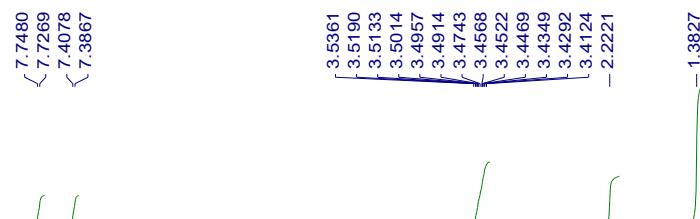


Figure S7. ^1H NMR spectrum of 5d

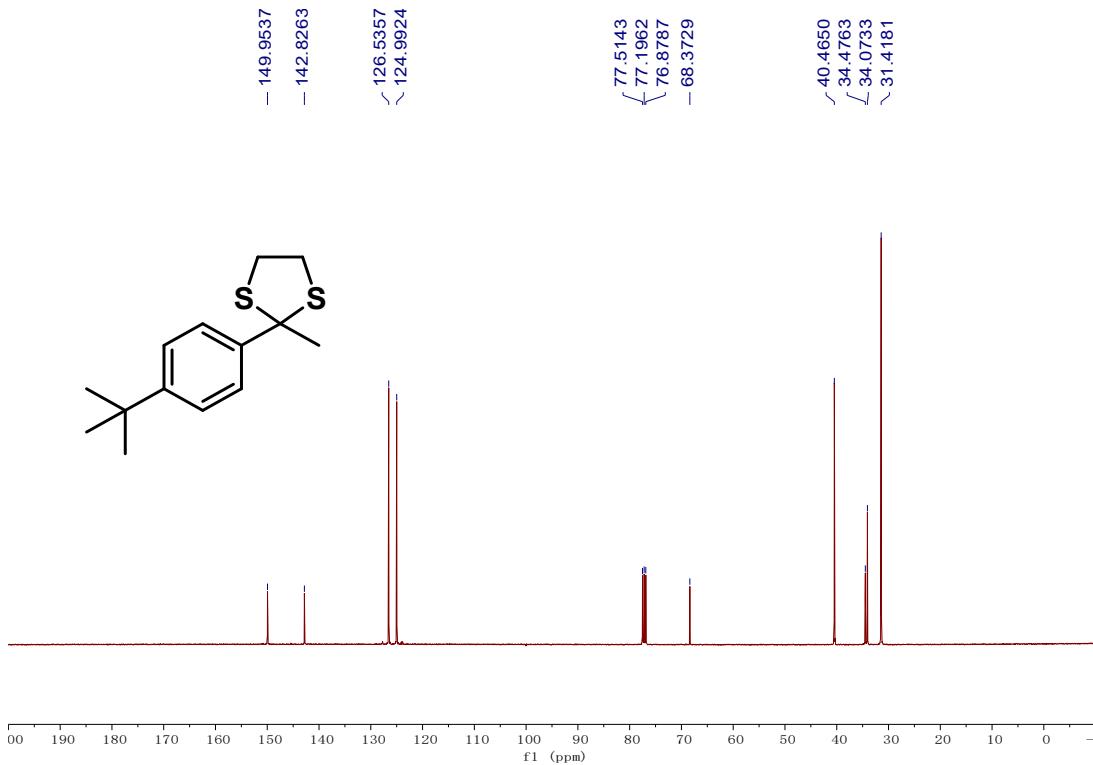


Figure S8. ^{13}C NMR spectrum of **5d**

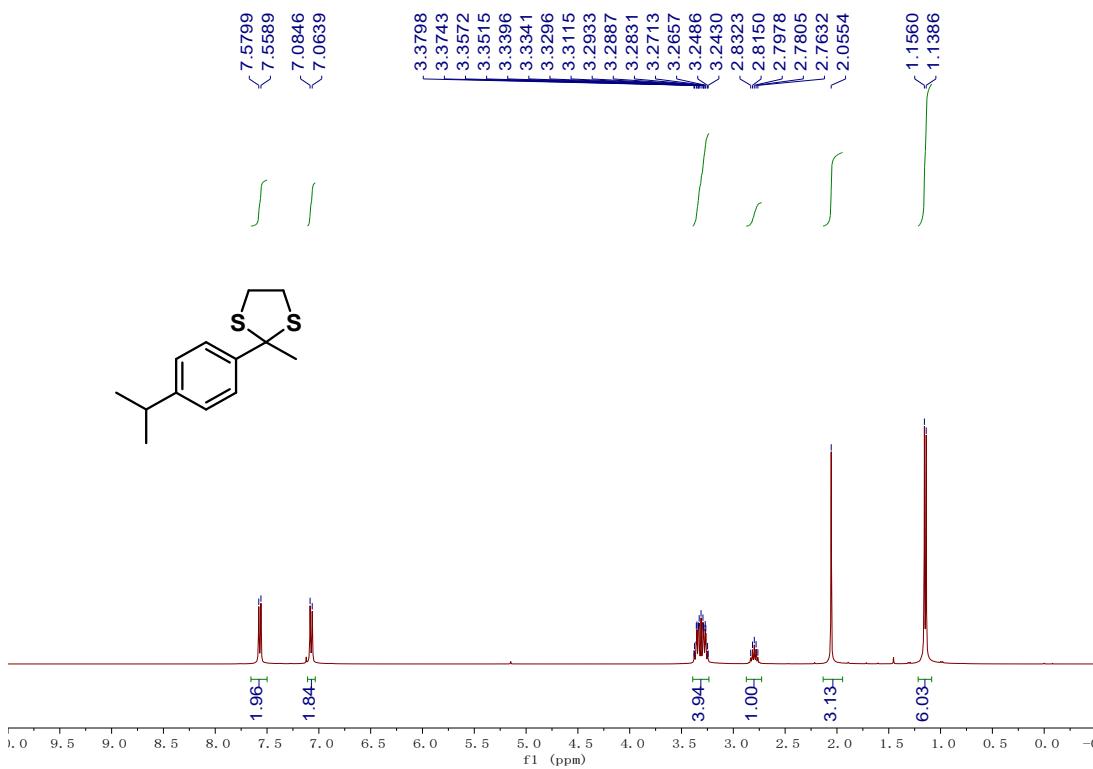


Figure S9. ^1H NMR spectrum of **5e**

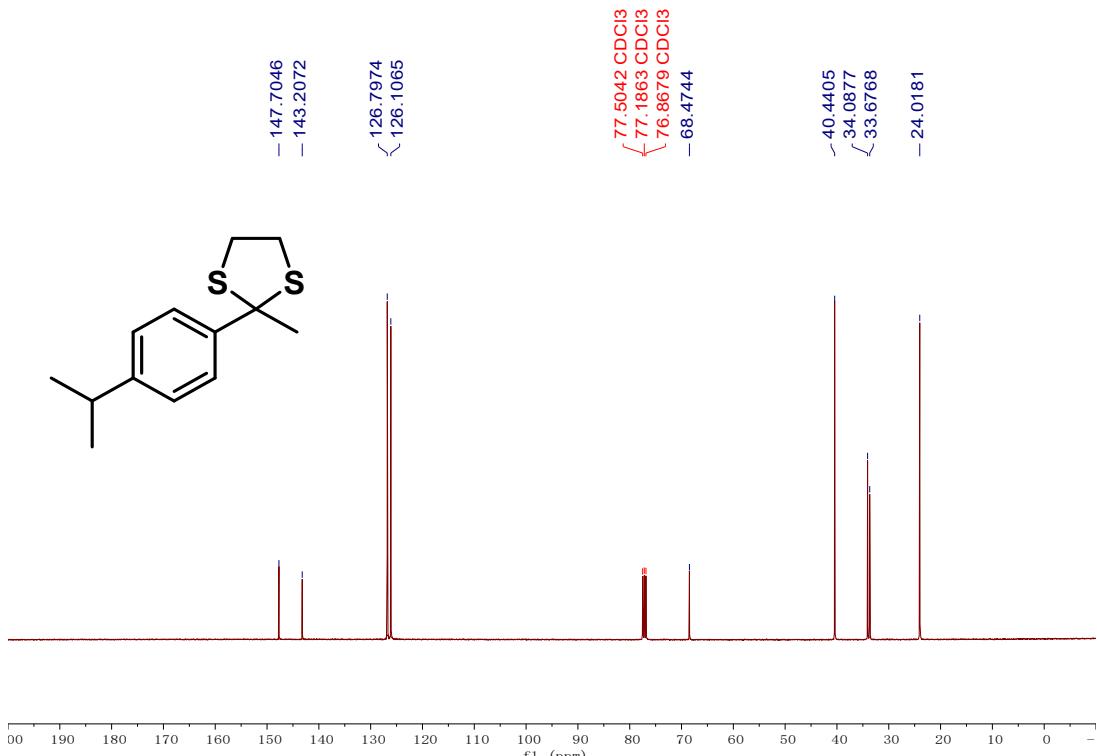


Figure S10. ^{13}C NMR spectrum of **5e**

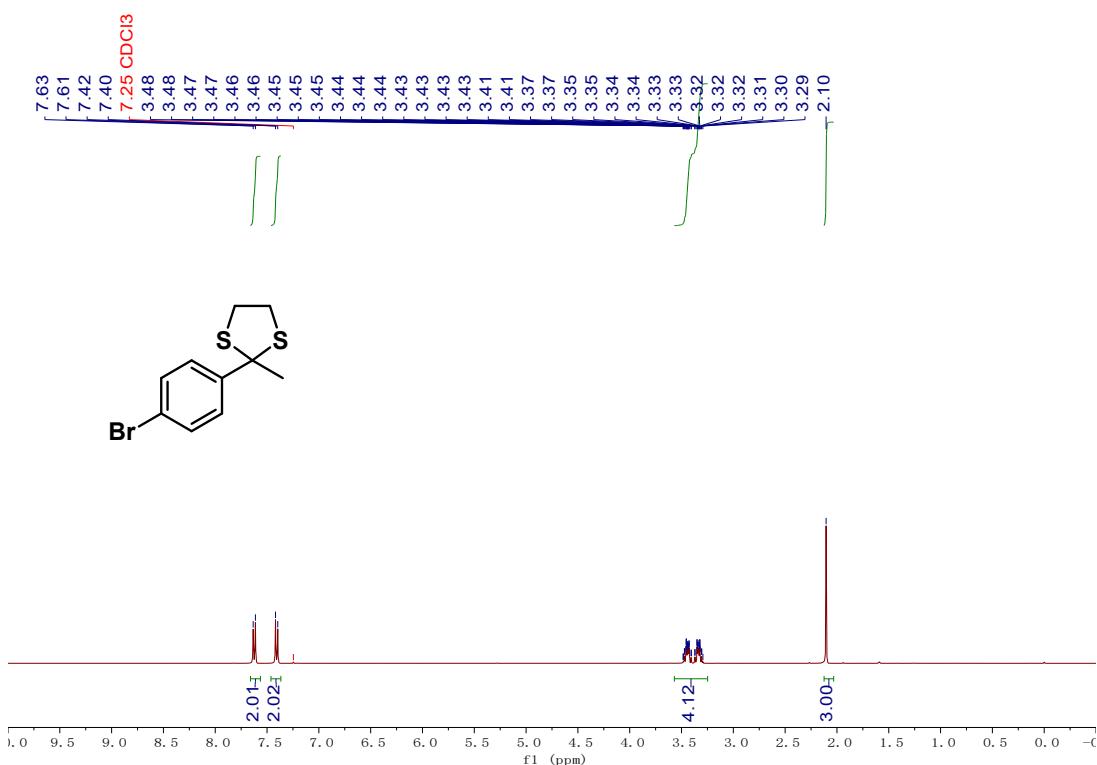


Figure S11. ^1H NMR spectrum of **5f**

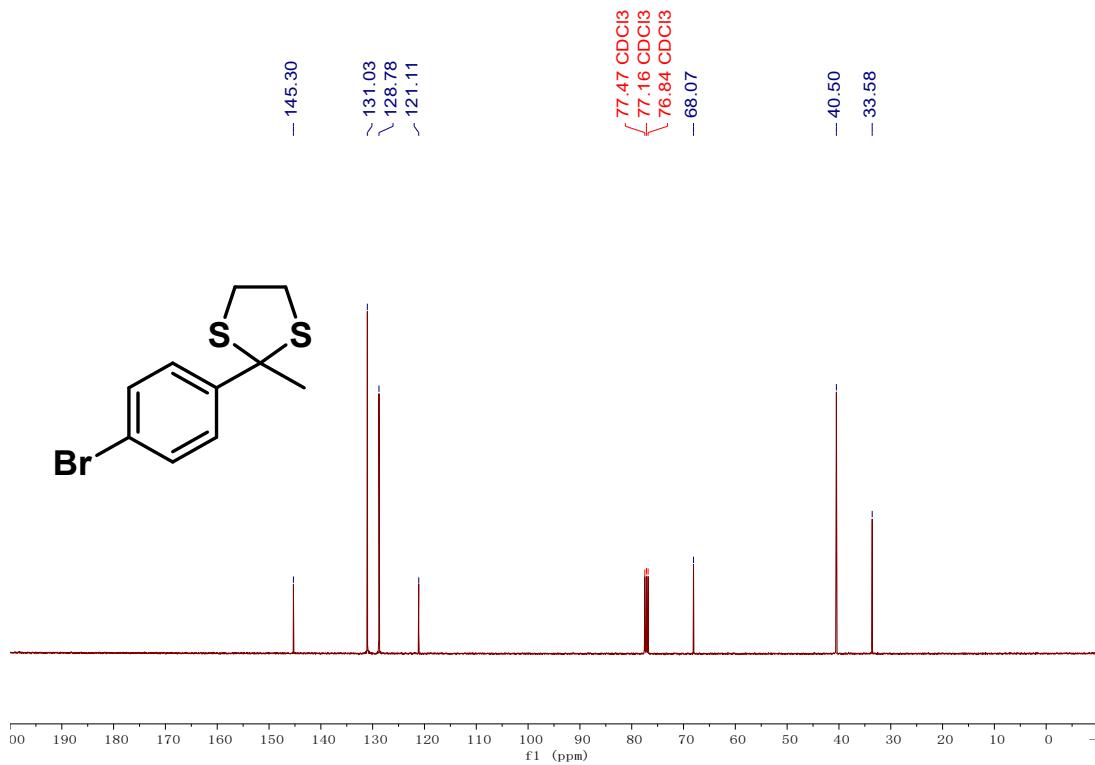


Figure S12. ¹³C NMR spectrum of **5f**

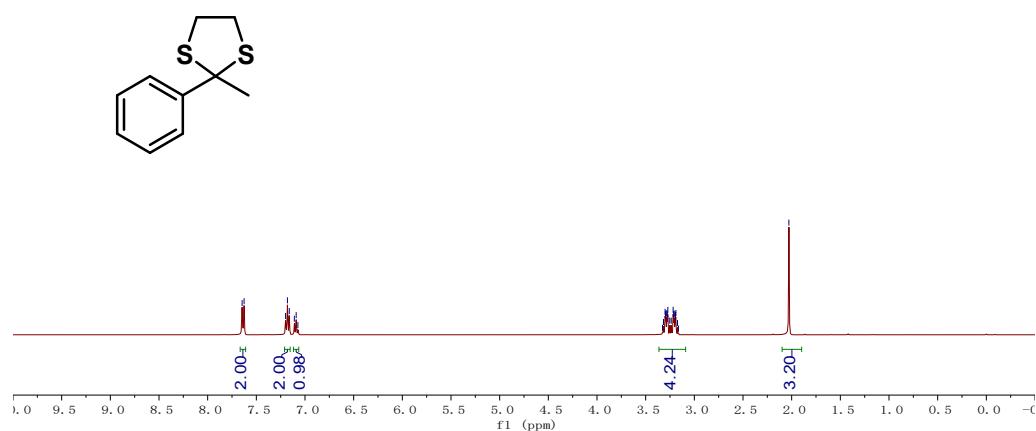
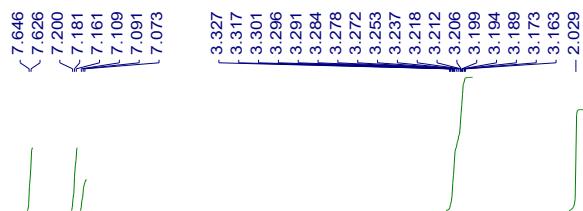


Figure S13. ¹H NMR spectrum of **5g**

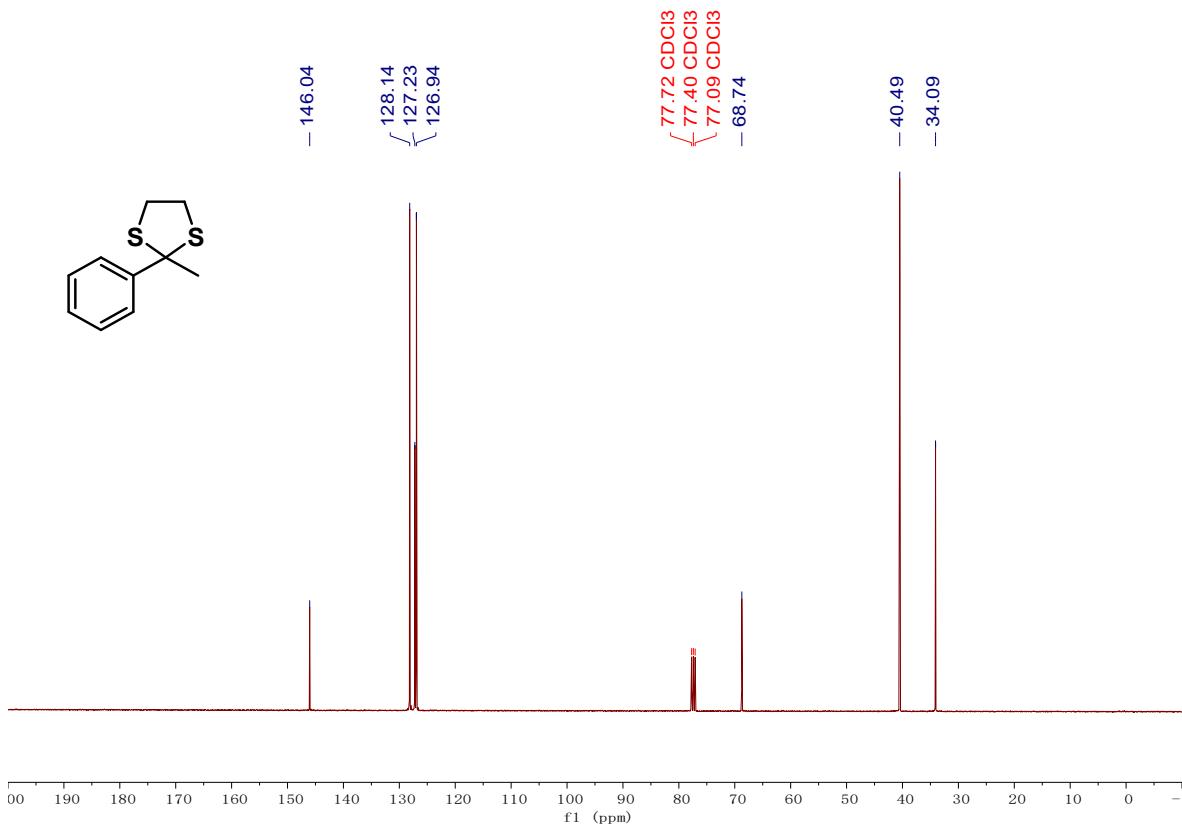
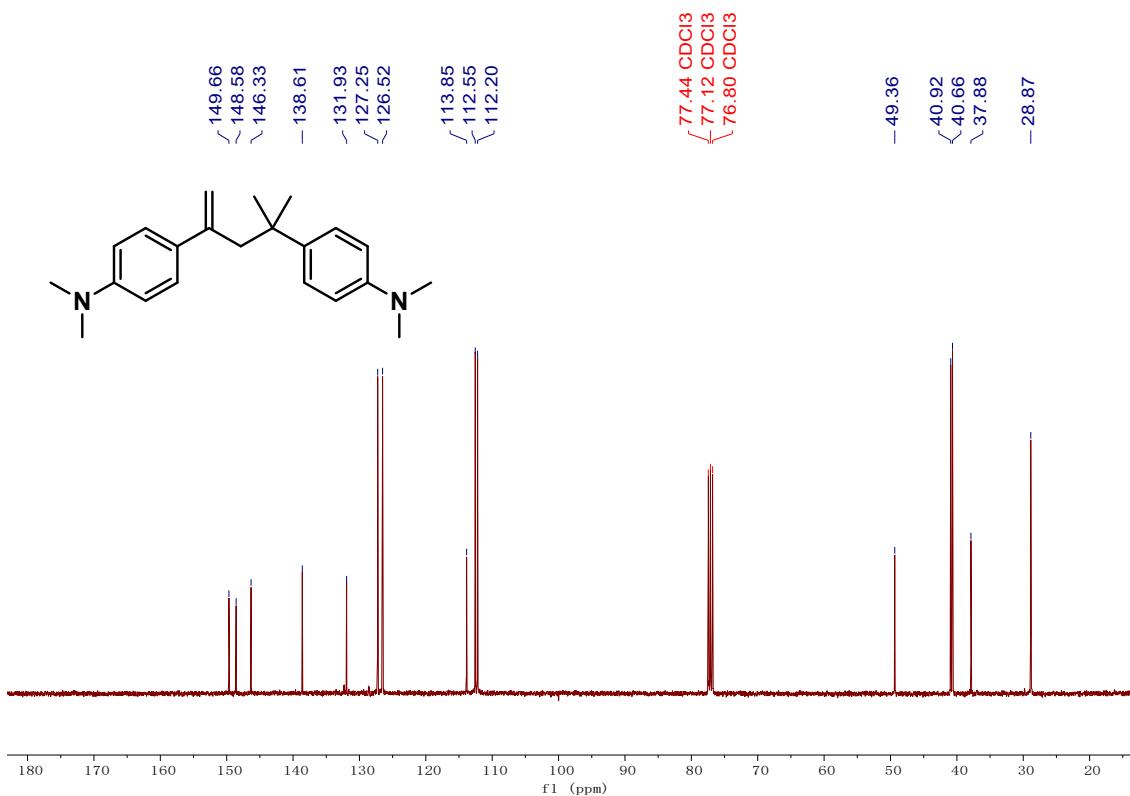
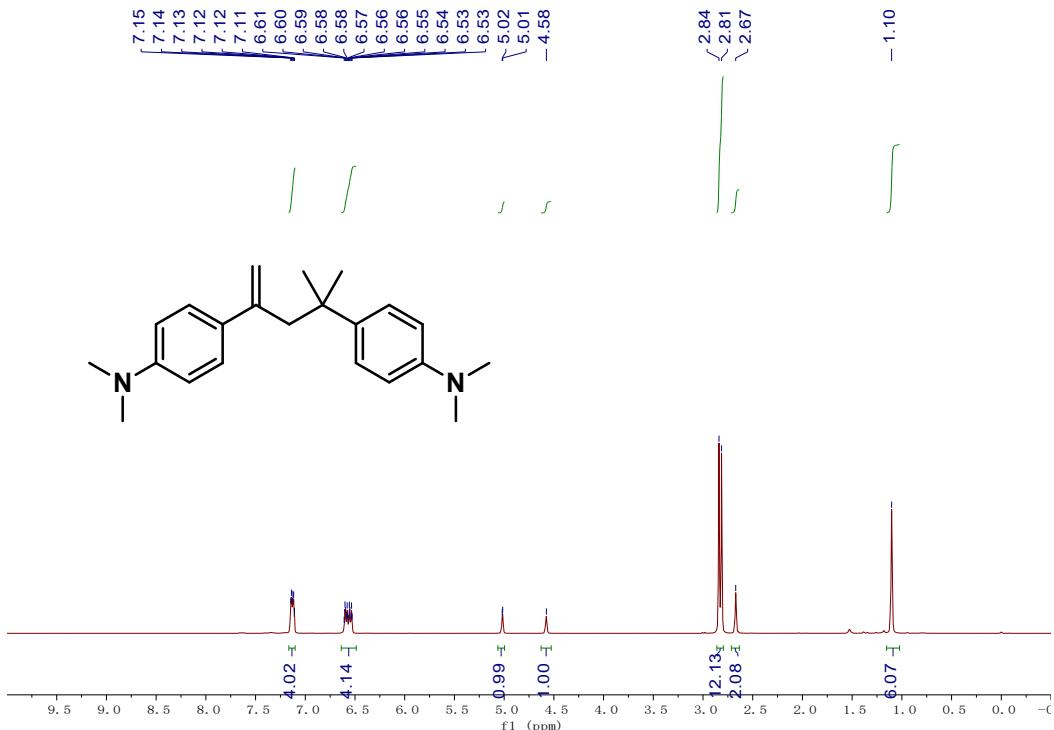


Figure S14. ^{13}C NMR spectrum of **5g**

2 NMR spectra of dimers.



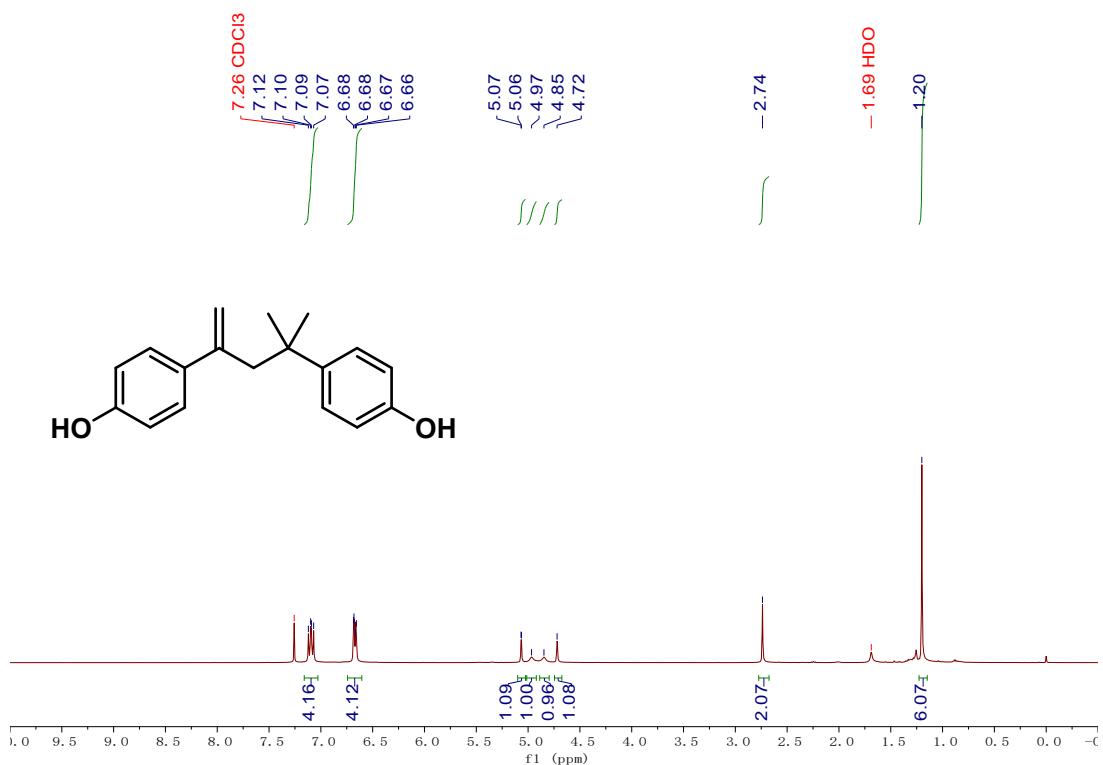


Figure S17. ¹H NMR spectrum of **6b**

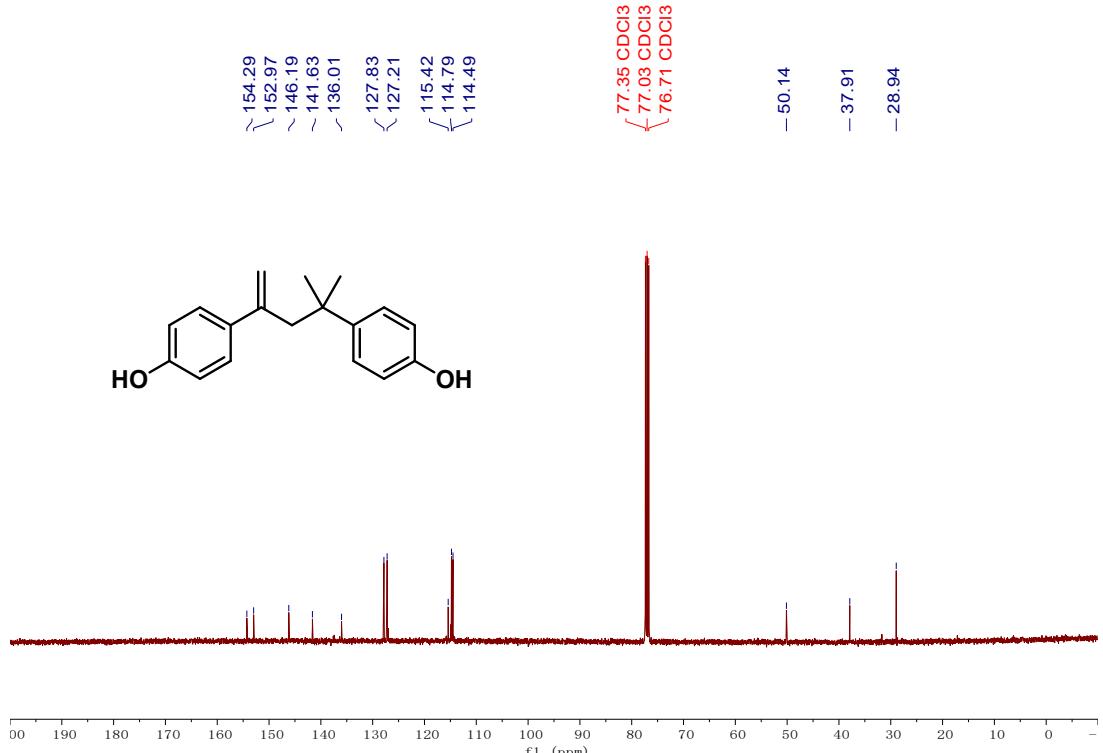


Figure S18. ¹³C NMR spectrum of **6b**

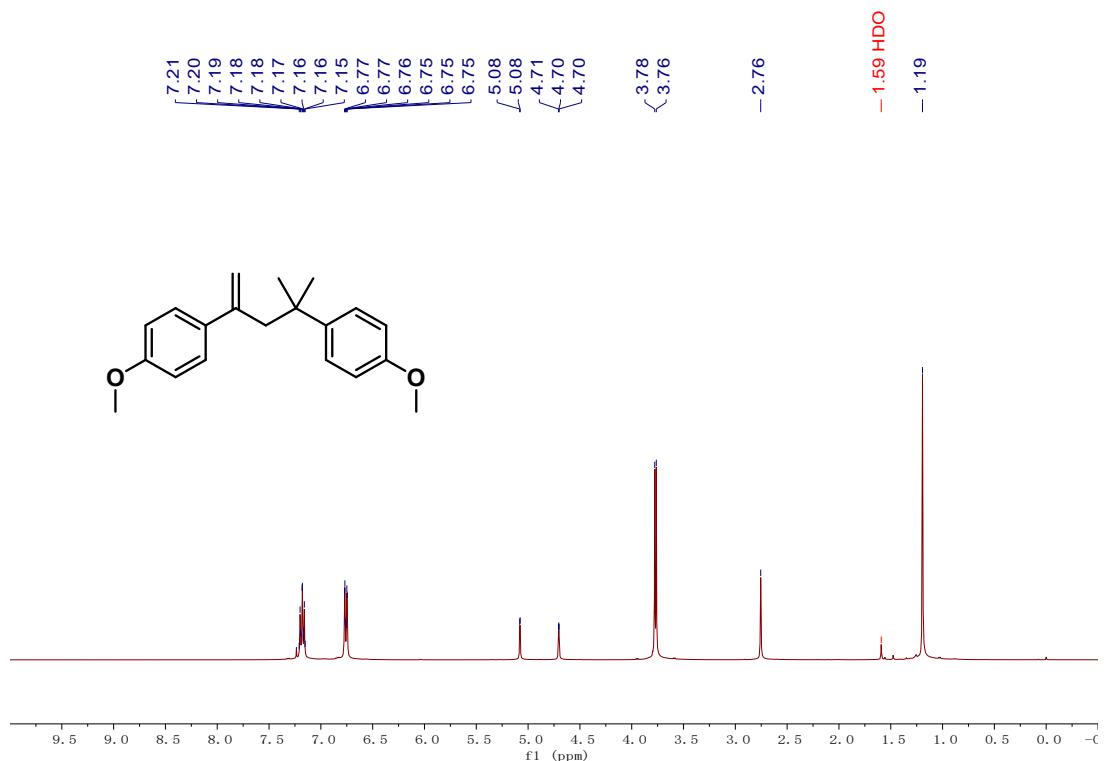


Figure S19. ^1H NMR spectrum of **6c**

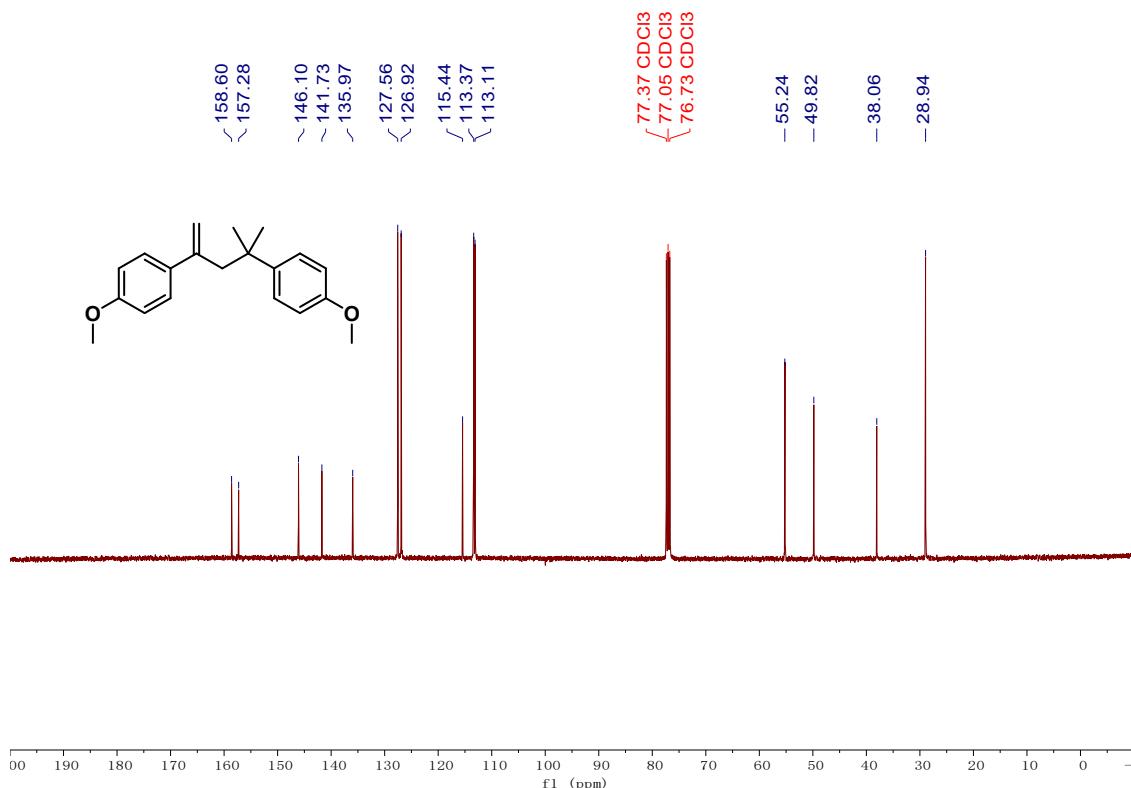
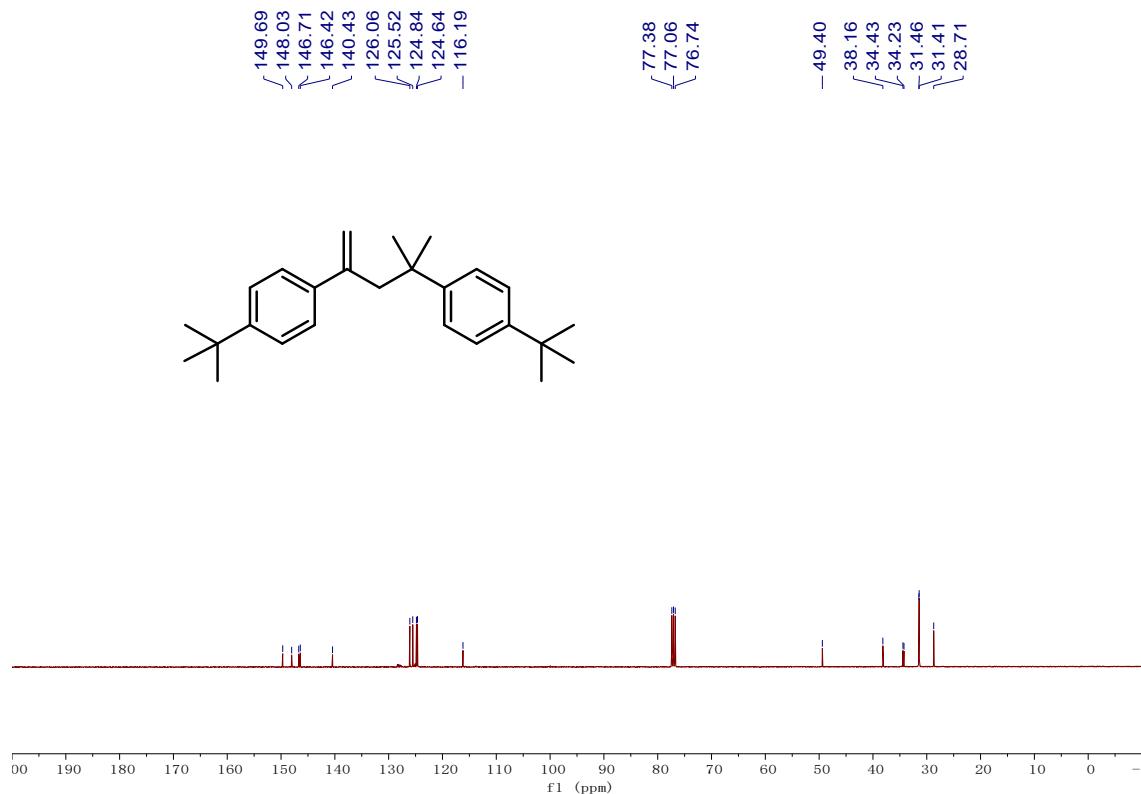
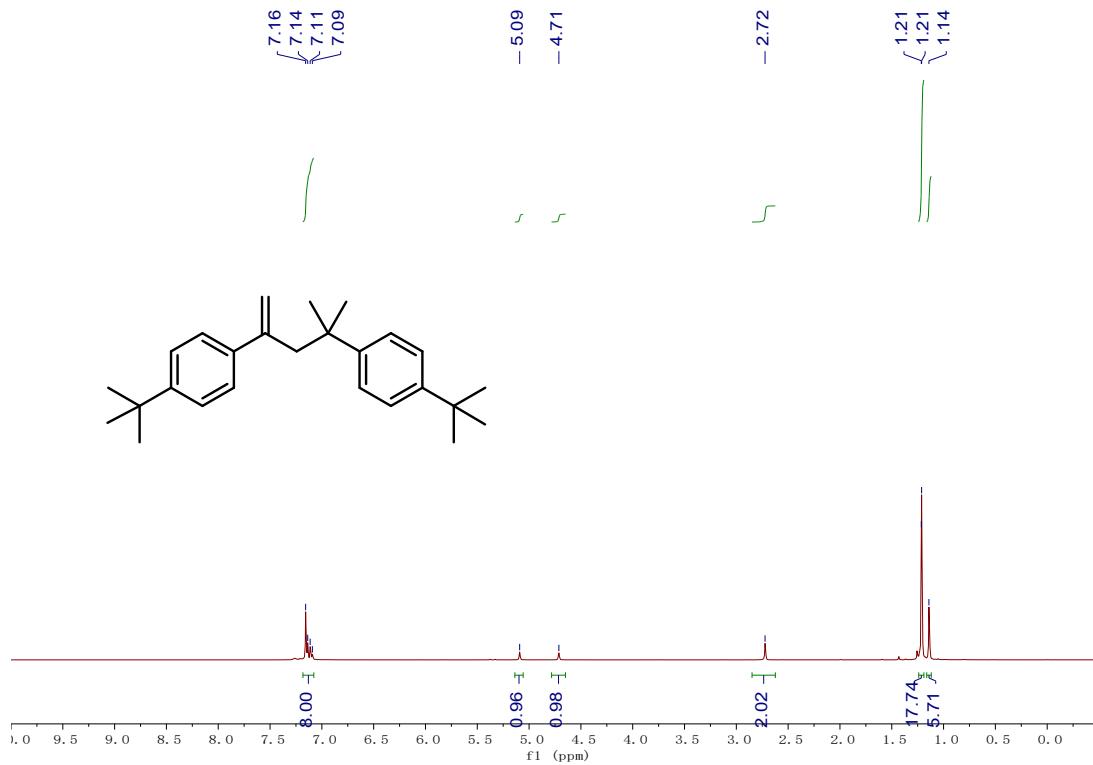


Figure S20. ^{13}C NMR spectrum of **6c**



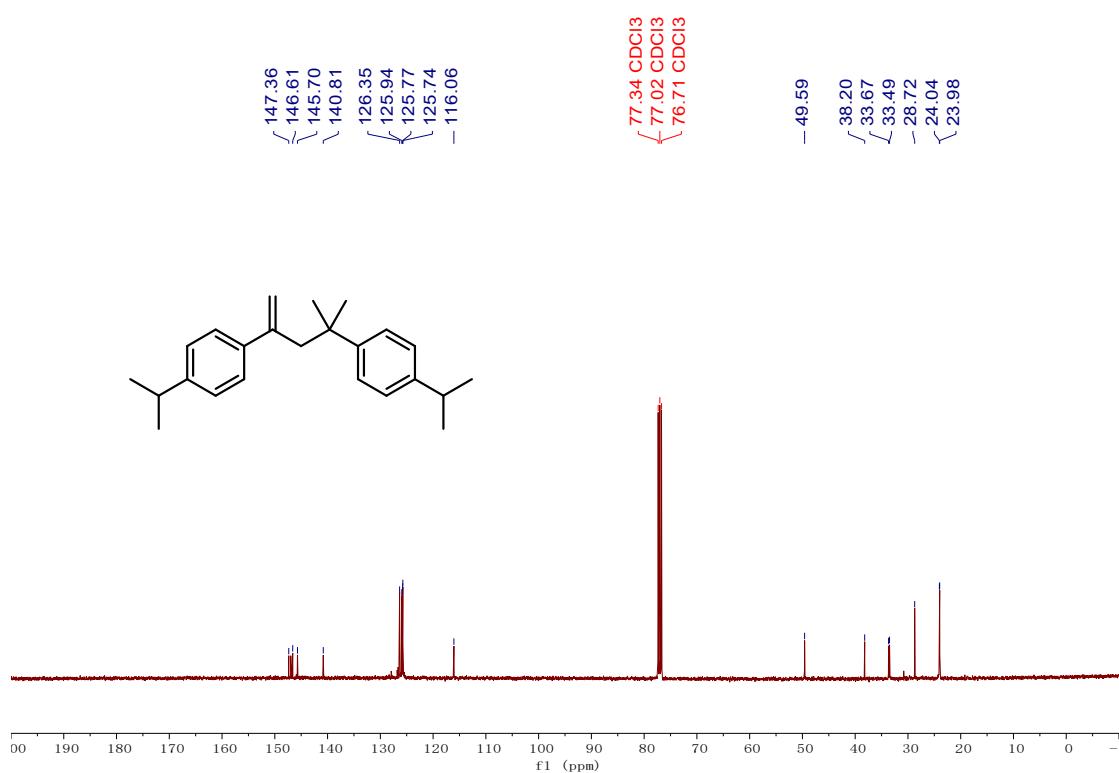
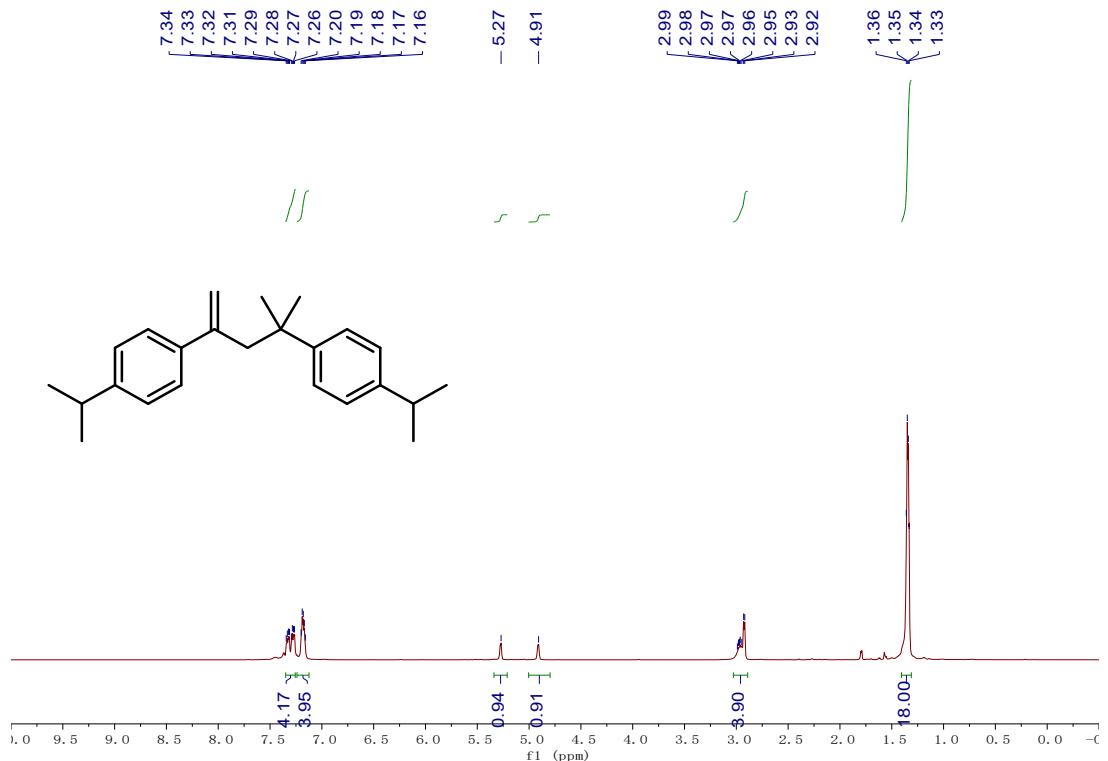




Figure S25. ^1H NMR spectrum of **6f**

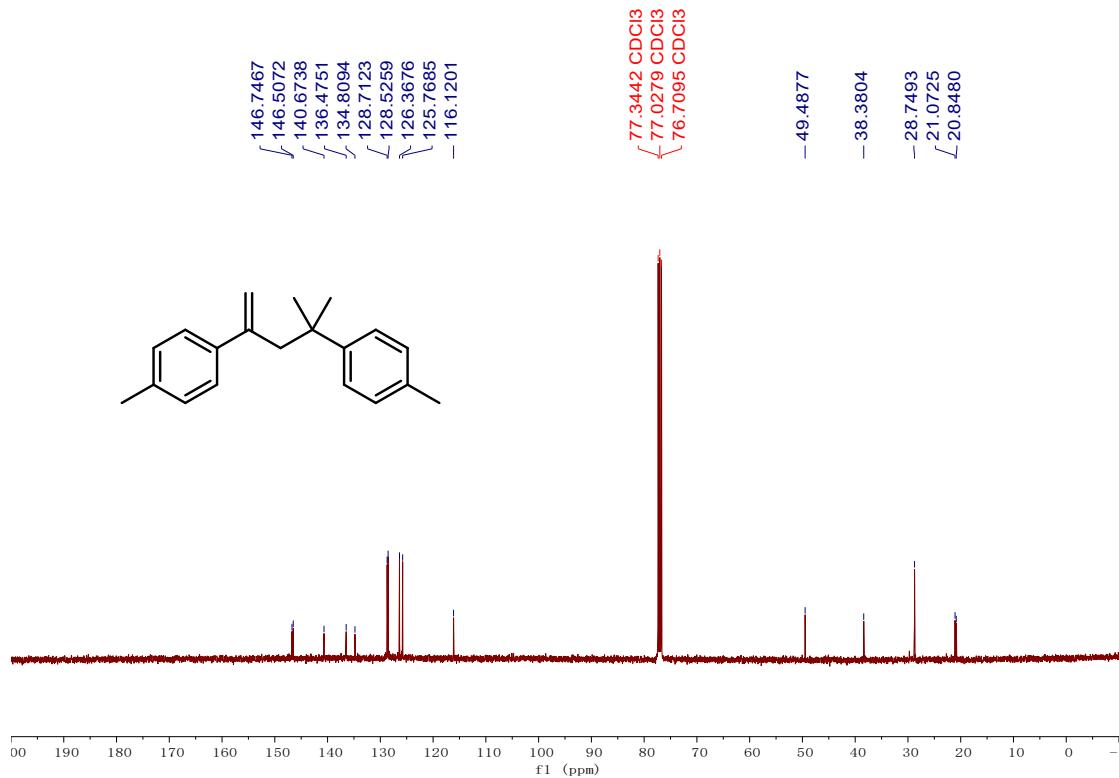


Figure S26. ^{13}C NMR spectrum of **6f**



Figure S27. ^1H NMR spectrum of **6g**

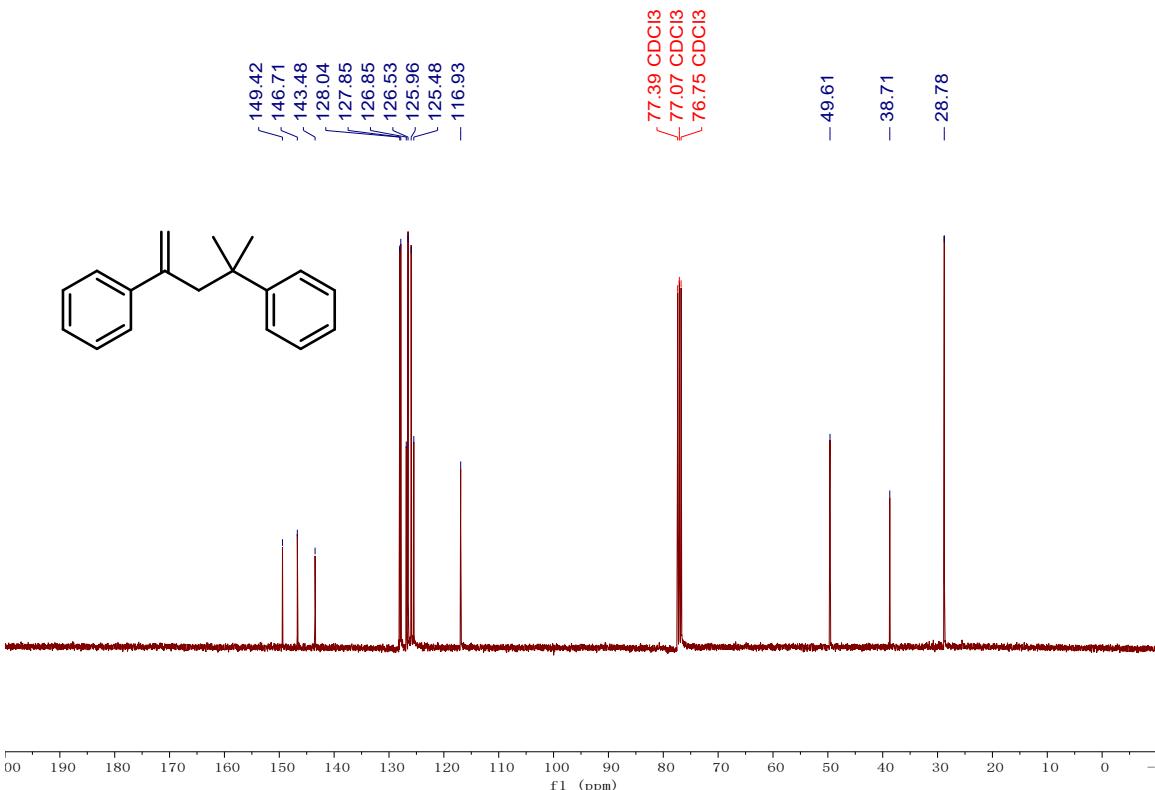


Figure S28. ^{13}C NMR spectrum of **6g**

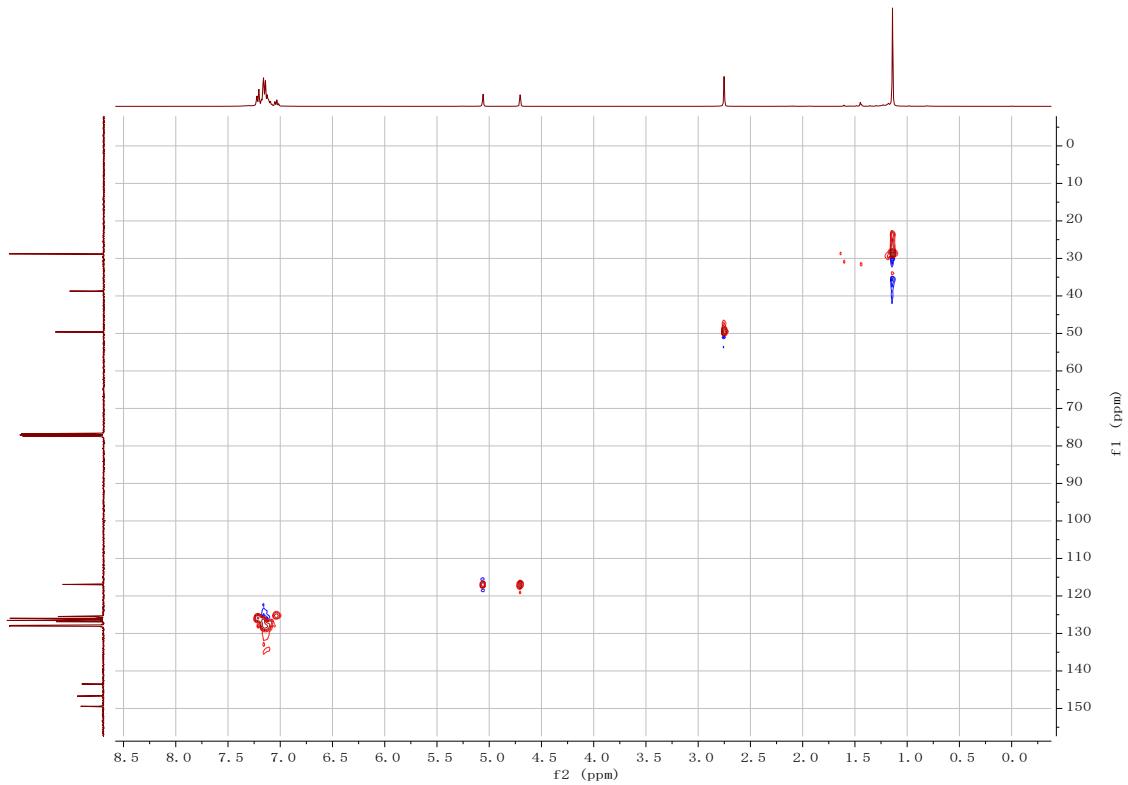


Figure S29. ^1H - ^{13}C HSQC spectrum of **6g**