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Supplementary Information

Synthesis of 1,3-Diynes via Detelluration of Bis(ethynyl)tellurides

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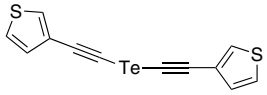
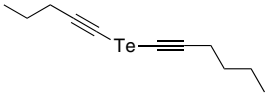
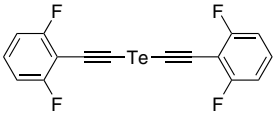
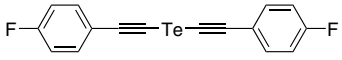
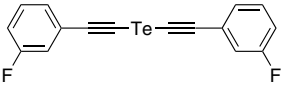
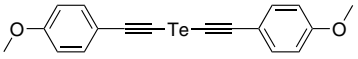
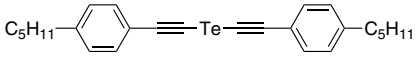
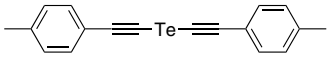
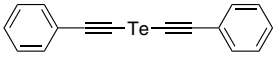
Table S1. Chemical shifts for ^{127}Te

Tellurides	^{125}Te NMR (δ ppm, $CDCl_3$)
	364.48
	332.57
	387.55
	364.52
	374.18
	348.06
	357.60
	357.83
	362.78

All spectra were obtained using diphenyl ditelluride as internal standard. Te_2Ph_2 ($CDCl_3$, δ (^{125}Te) = 421.8 ppm).

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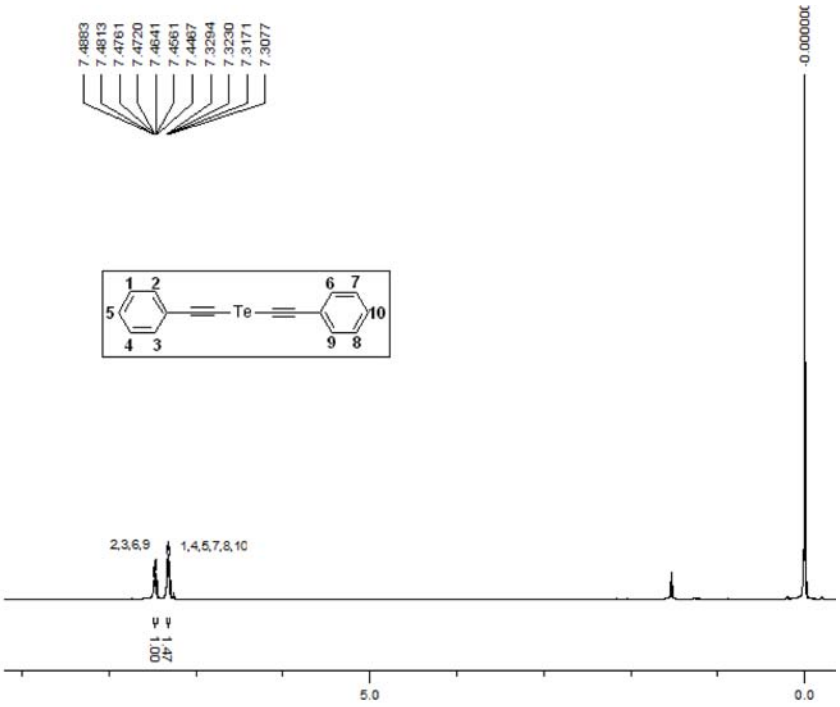

Figure S1. ^{1}H NMR ($CDCl_3$, 300 MHz) of **1a**.

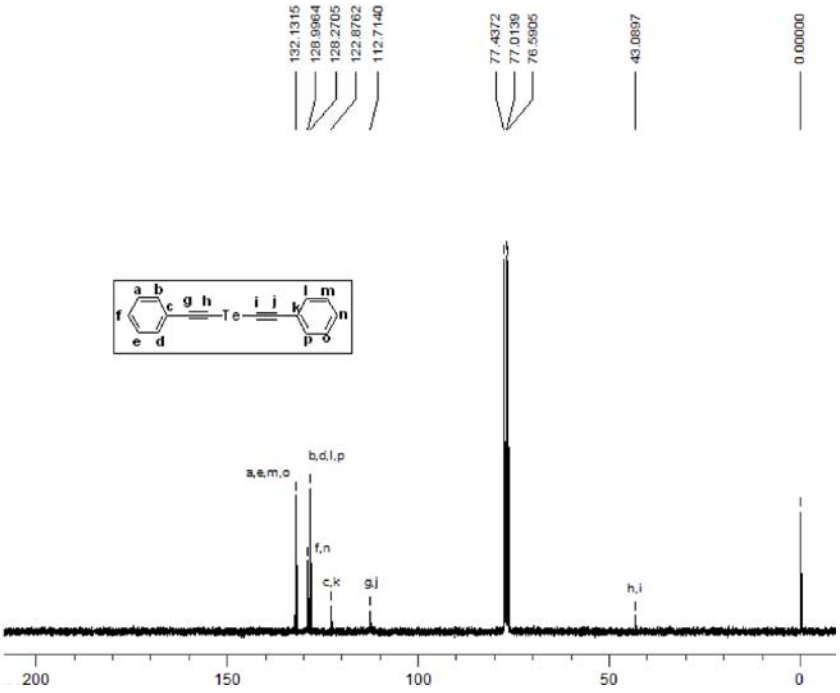

Figure S2. ^{13}C NMR ($CDCl_3$, 300 MHz) of **1a**.

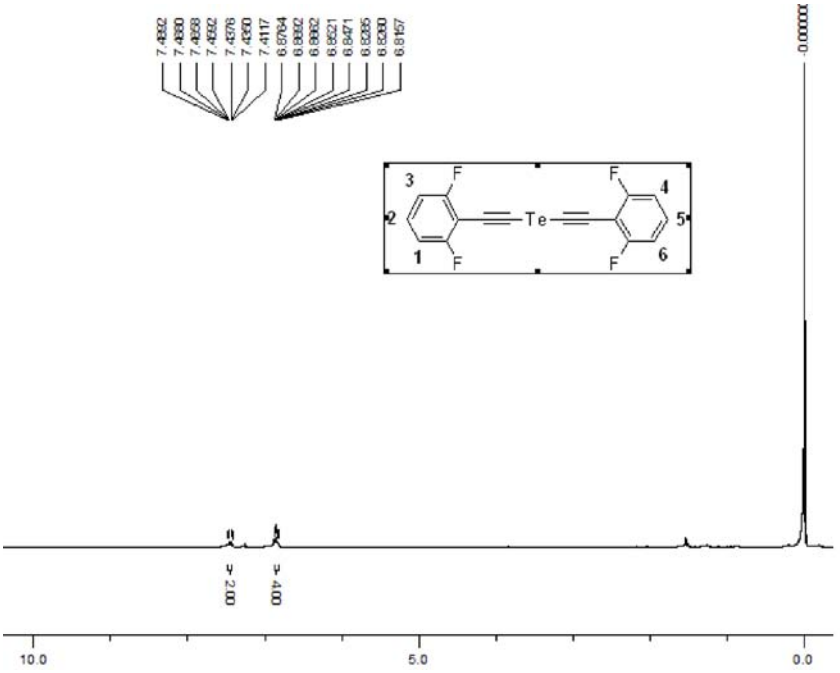

Figure S3. ^{1}H NMR ($CDCl_3$, 300 MHz) of **1b**.

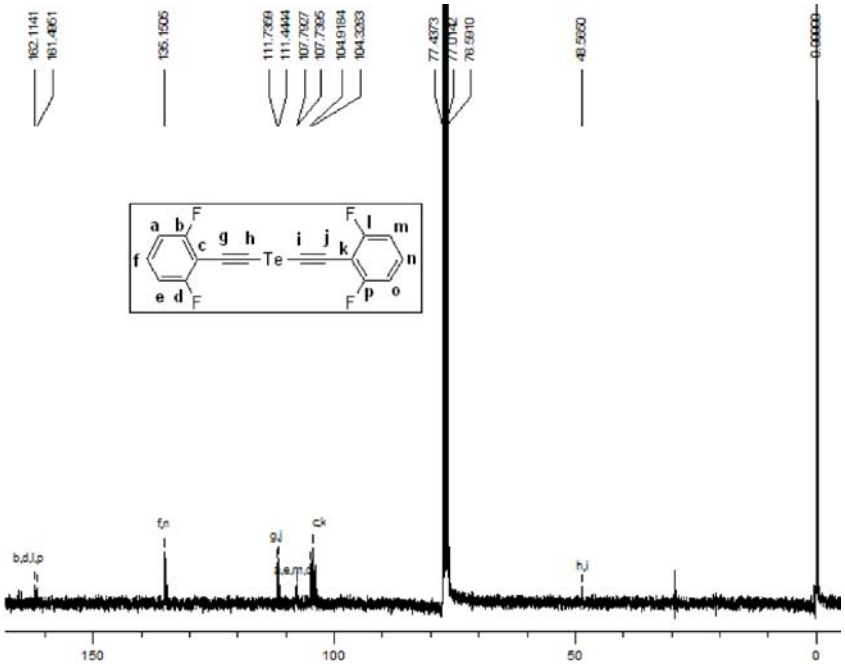

Figure S4. ^{13}C NMR ($CDCl_3$, 300 MHz) of **1b**.

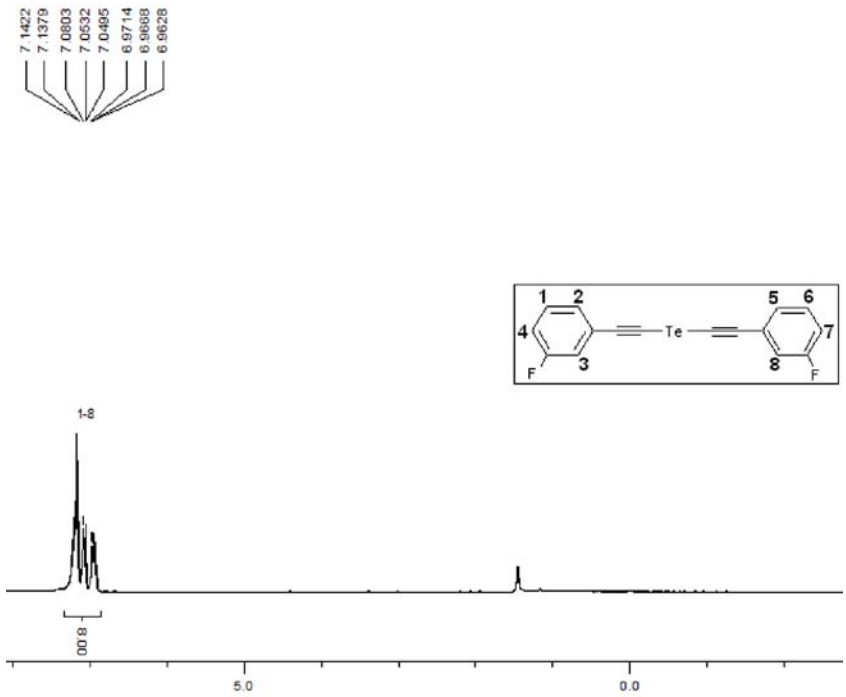

Figure S5. ^{1}H NMR ($CDCl_3$, 300 MHz) of **1c**.

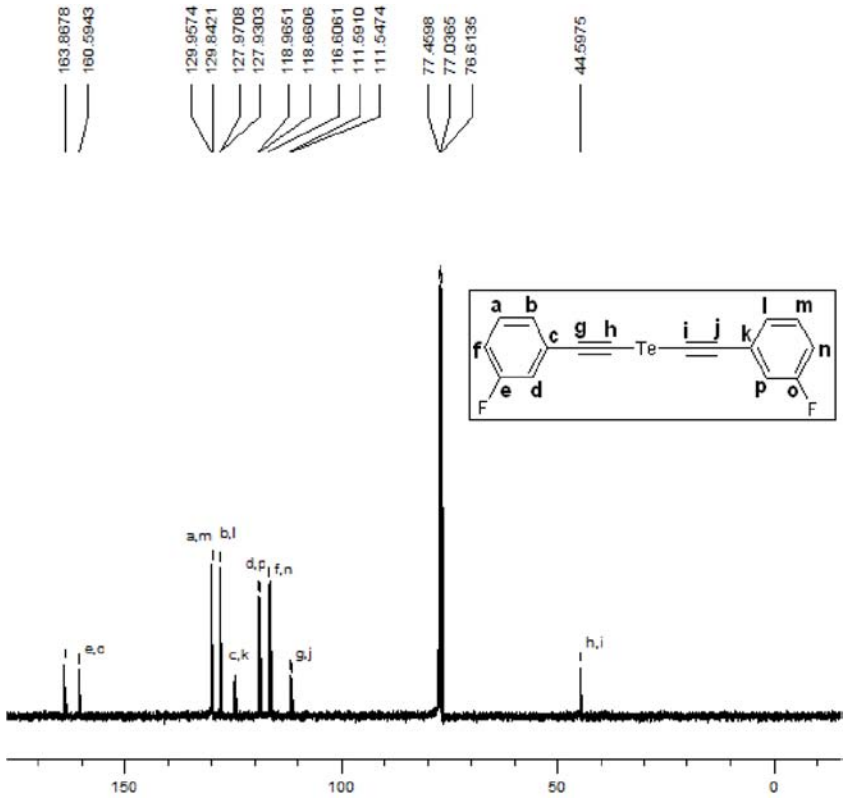

Figure S6. ^{13}C NMR ($CDCl_3$, 300 MHz) of **1c**.

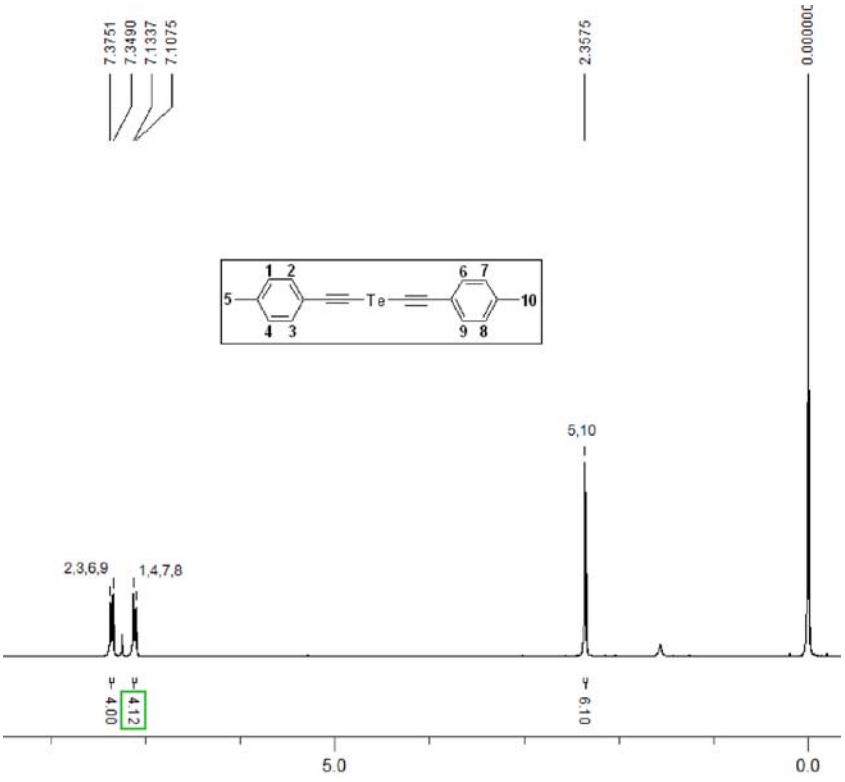

Figure S7. ^{1}H NMR ($CDCl_3$, 300 MHz) of **1d**.

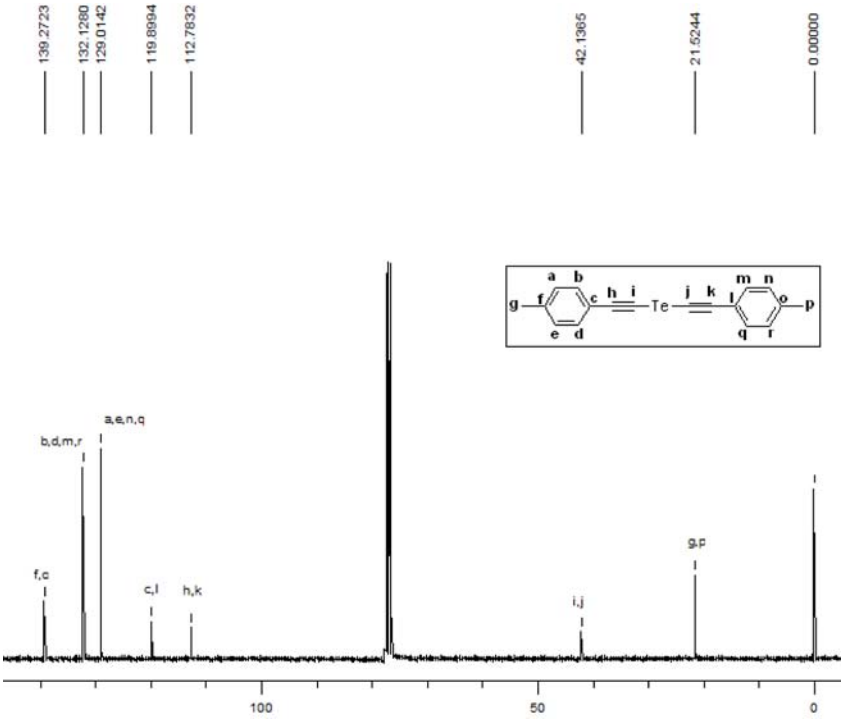

Figure S8. ^{13}C NMR ($CDCl_3$, 300 MHz) of **1d**.

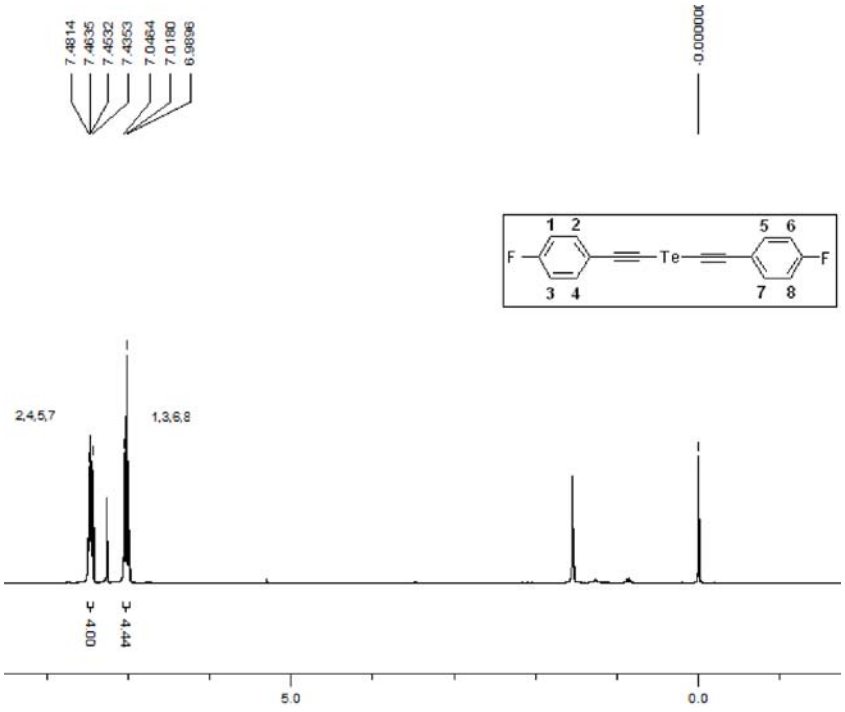

Figure S9. ^{1}H NMR ($CDCl_3$, 300 MHz) of **1e**.

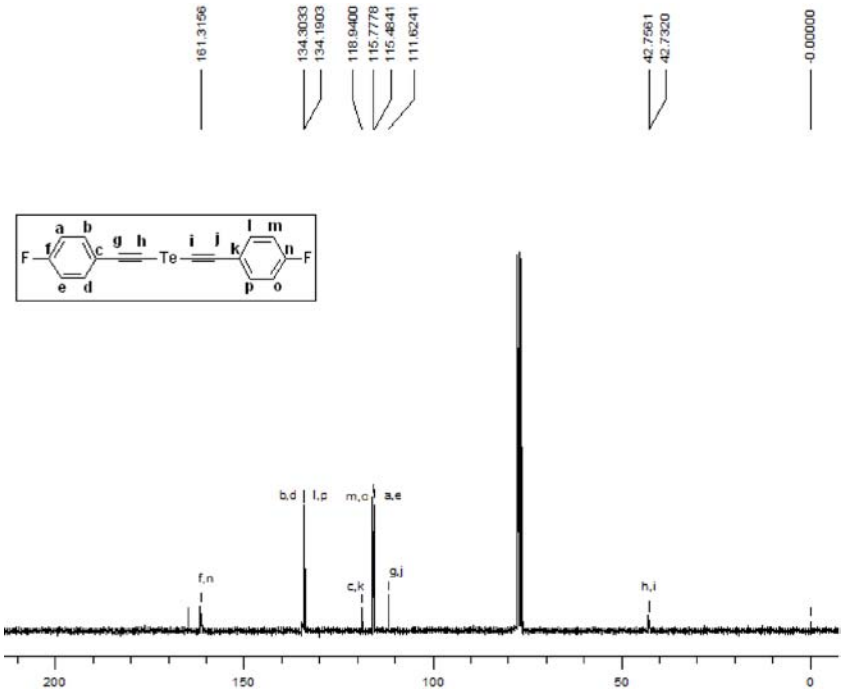

Figure S10. ^{13}C NMR ($CDCl_3$, 300 MHz) of **1e**.

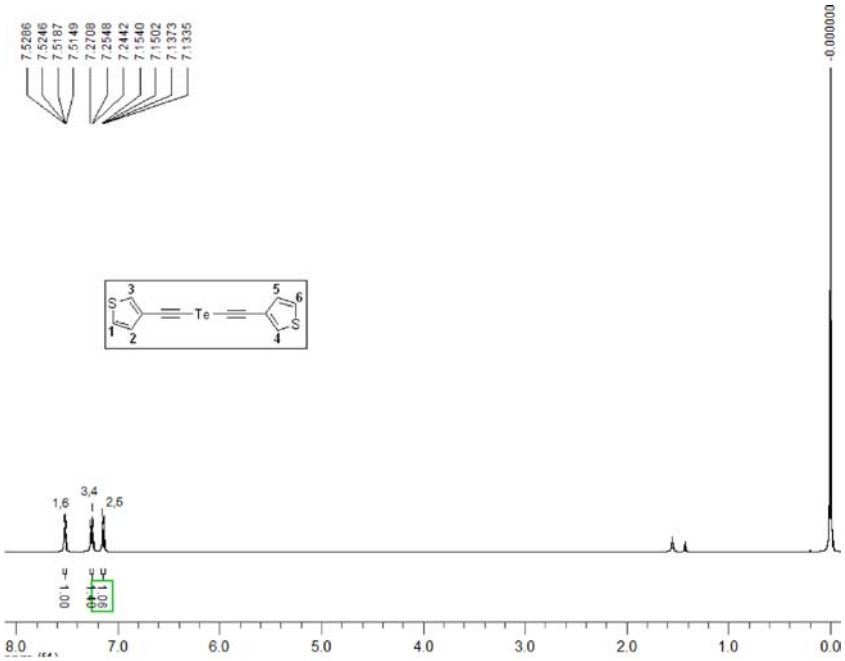

Figure S11. ^{1}H NMR ($CDCl_3$, 300 MHz) of **1f**.

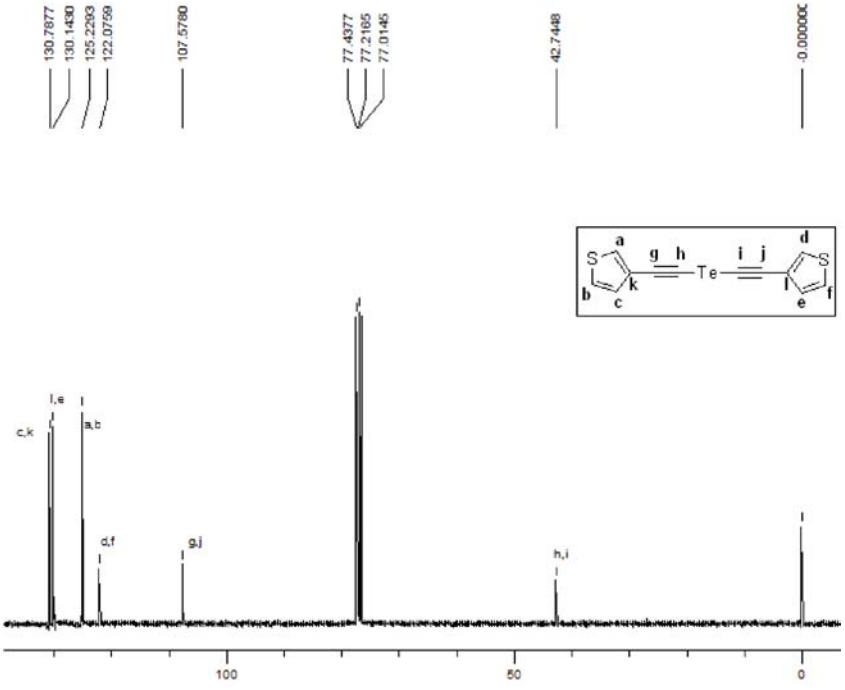

Figure S12. ^{13}C NMR ($CDCl_3$, 300 MHz) of **1f**.

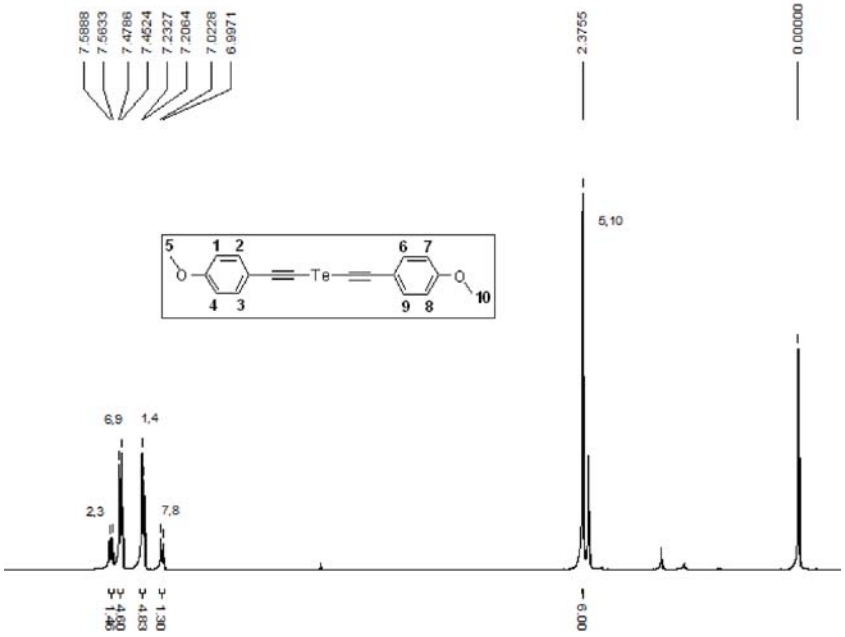

Figure S13. ^{1}H NMR ($CDCl_3$, 300 MHz) of **1g**.

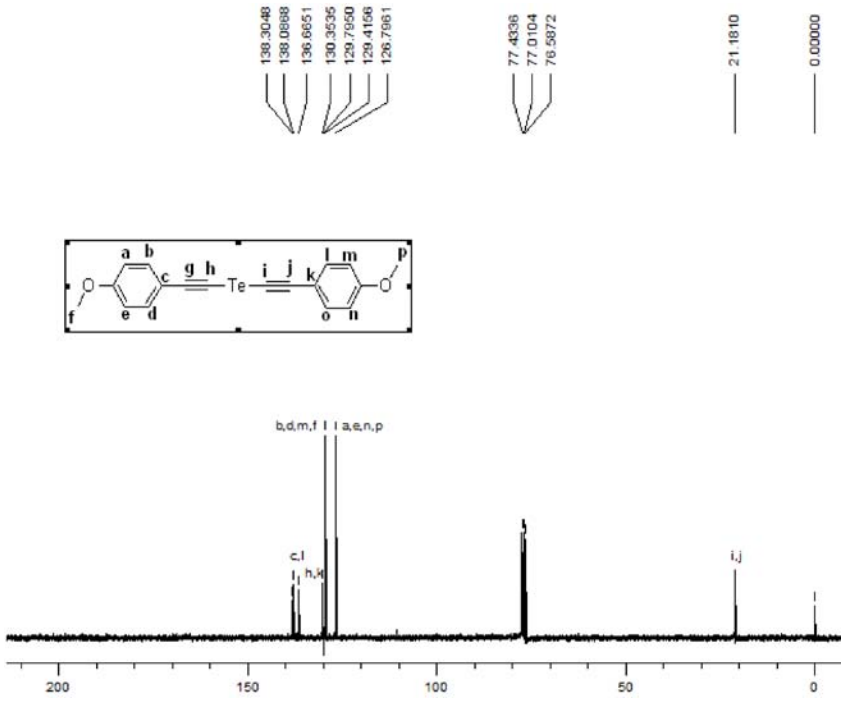

Figure S14. ^{13}C NMR ($CDCl_3$, 300 MHz) of **1g**.

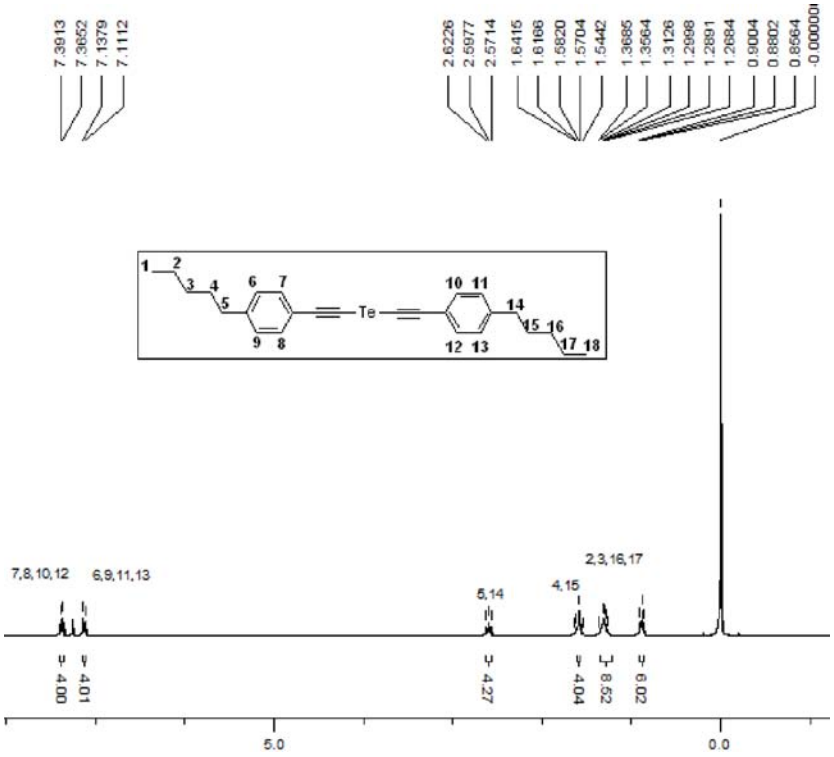

Figure S15. ^{1}H NMR ($CDCl_3$, 300 MHz) of **1h**.

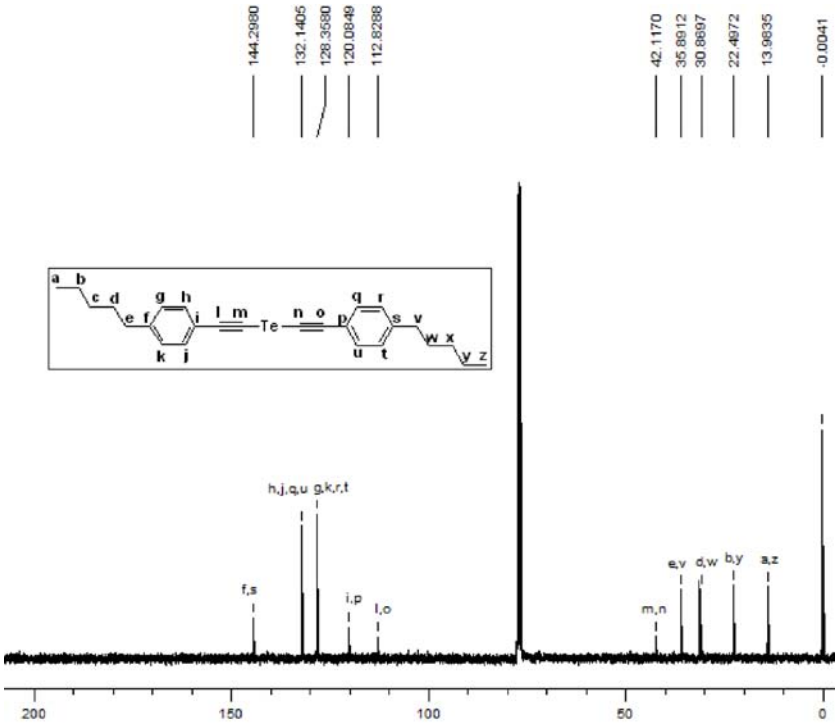

Figure S16. ^{13}C NMR ($CDCl_3$, 300 MHz) of **1h**.

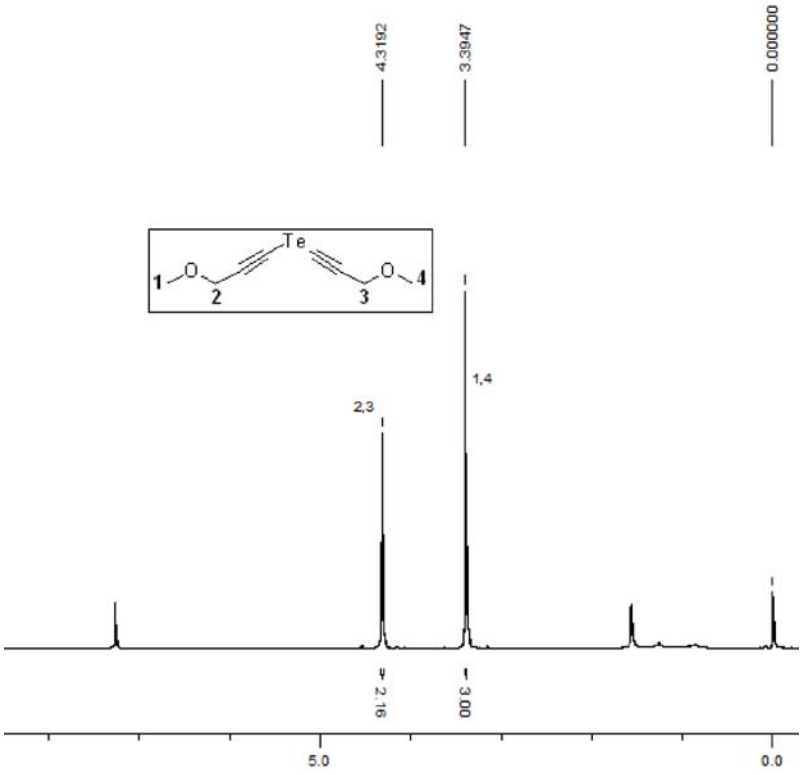

Figure S17. ^{1}H NMR ($CDCl_3$, 300 MHz) of **1i**.

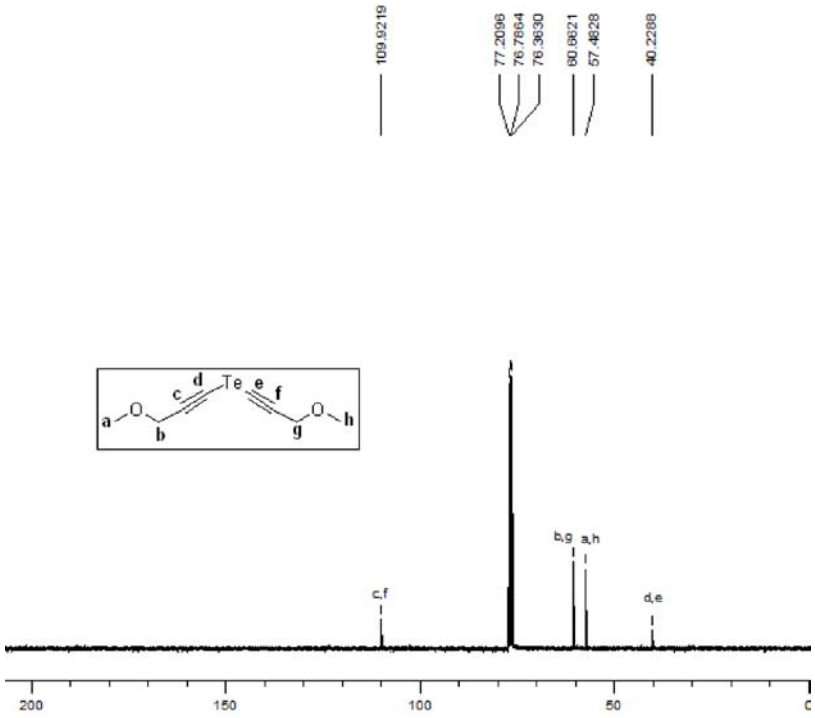

Figure S18. ^{13}C NMR ($CDCl_3$, 300 MHz) of **1i**.

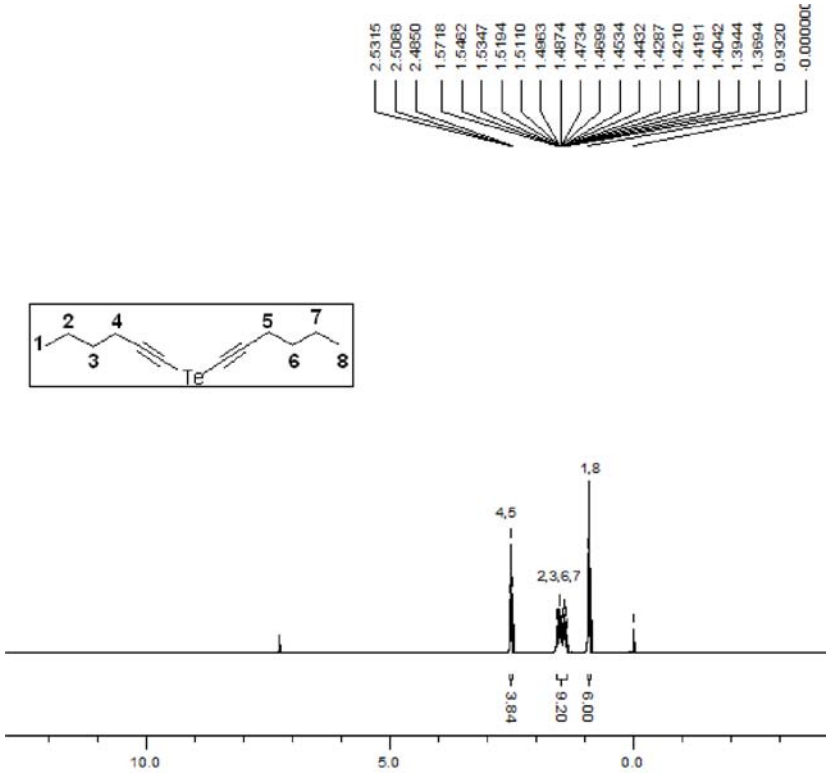

Figure S19. ^{1}H NMR ($CDCl_3$, 300 MHz) of **1j**.

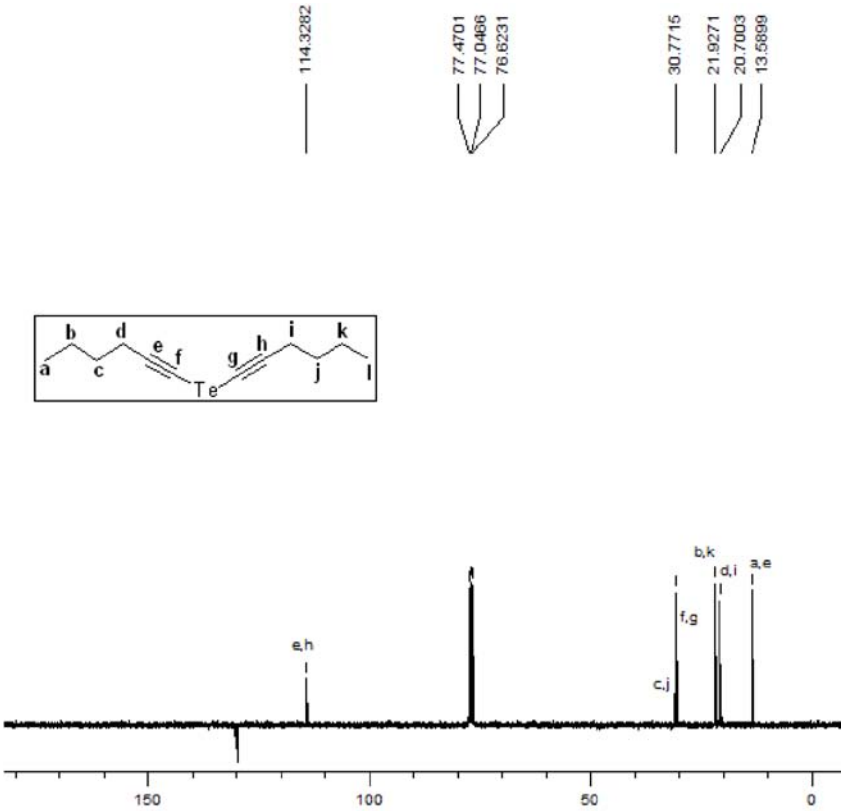

Figure S20. ^{13}C NMR ($CDCl_3$, 300 MHz) of **1j**.

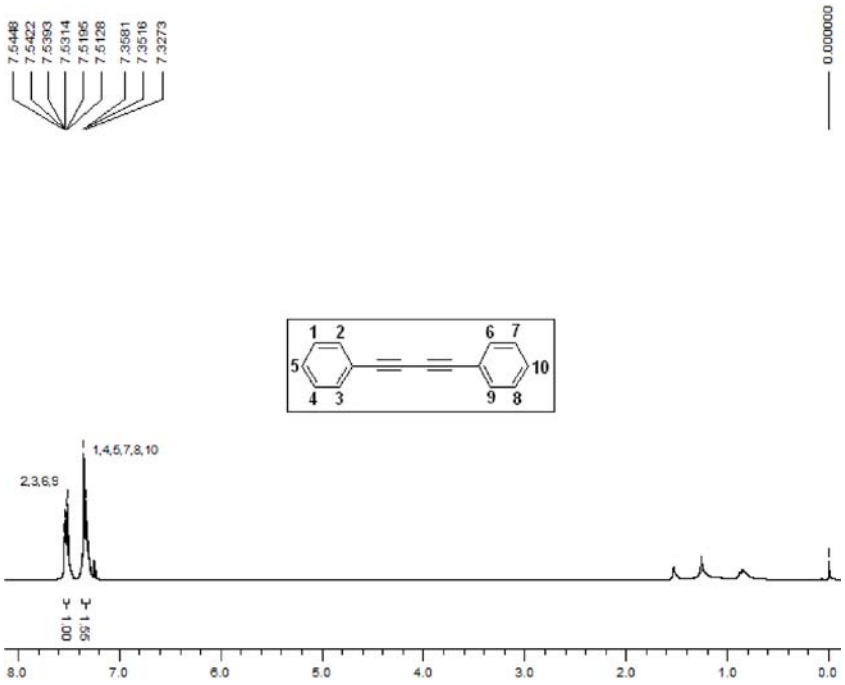

Figure S21. ^{1}H NMR ($CDCl_3$, 300 MHz) of **2a**.

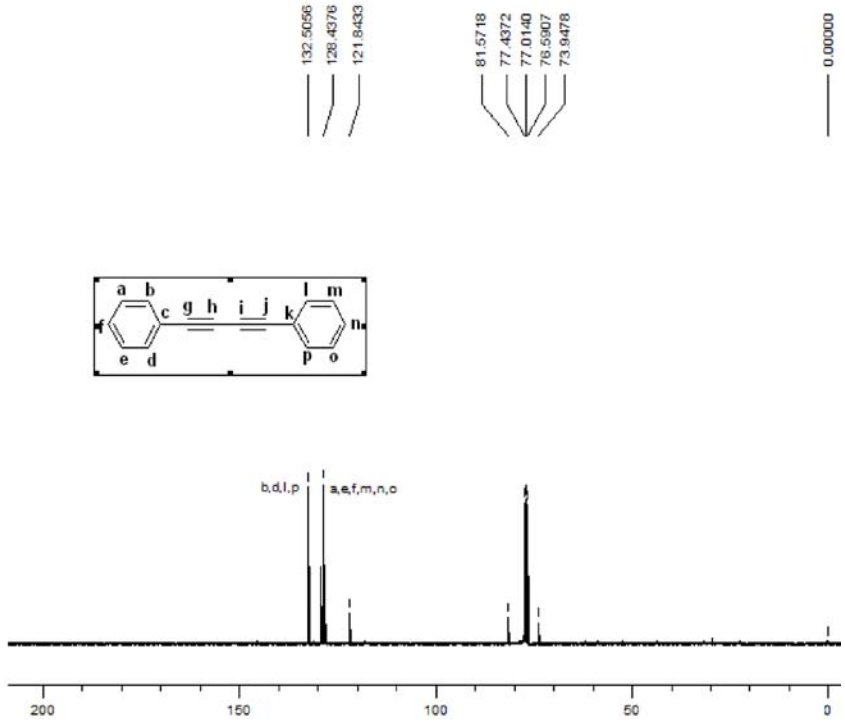

Figure S22. ^{13}C NMR ($CDCl_3$, 300 MHz) of **2a**.

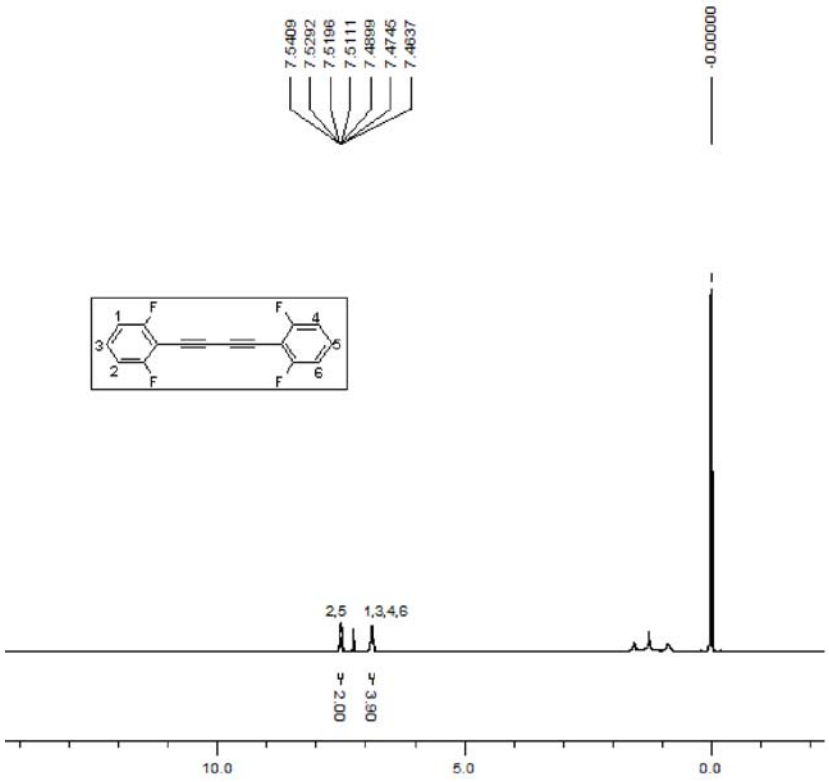

Figure S23. ^{1}H NMR ($CDCl_3$, 300 MHz) of **2b**.

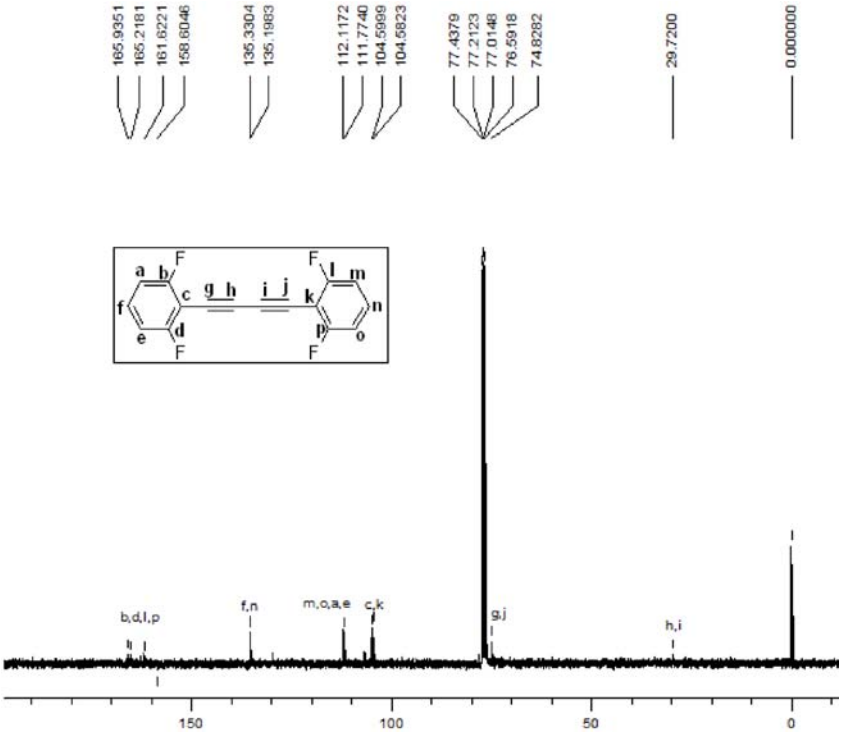

Figure S24. ^{13}C NMR ($CDCl_3$, 300 MHz) of **2b**.

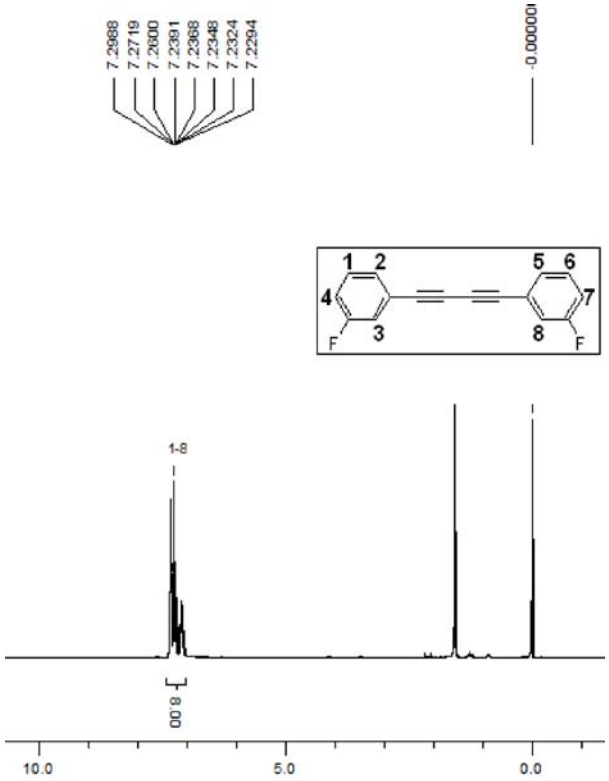

Figure S25. ^{1}H NMR ($CDCl_3$, 300 MHz) of **2c**.

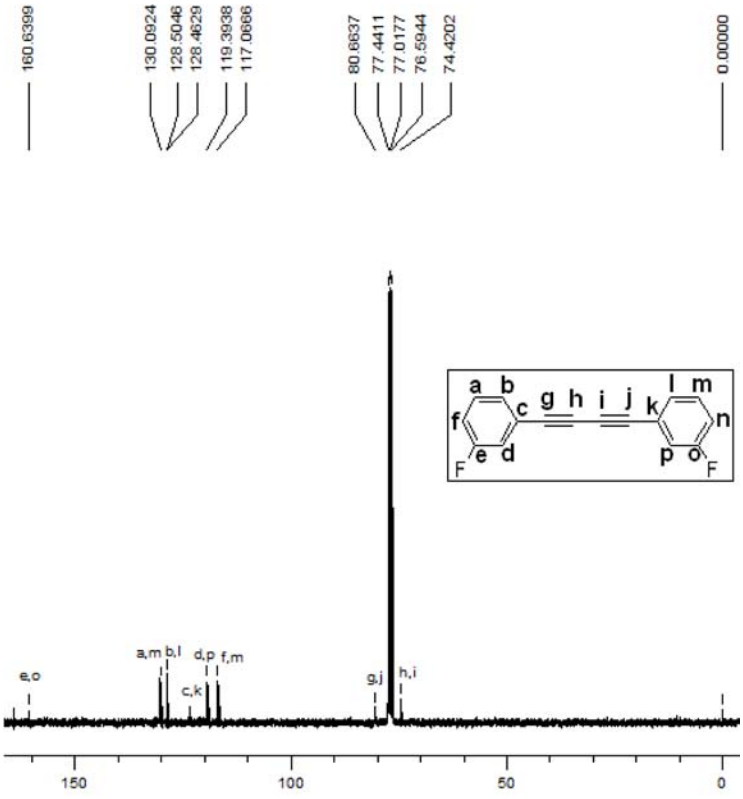

Figure S26. ^{13}C NMR ($CDCl_3$, 300 MHz) of **2c**.

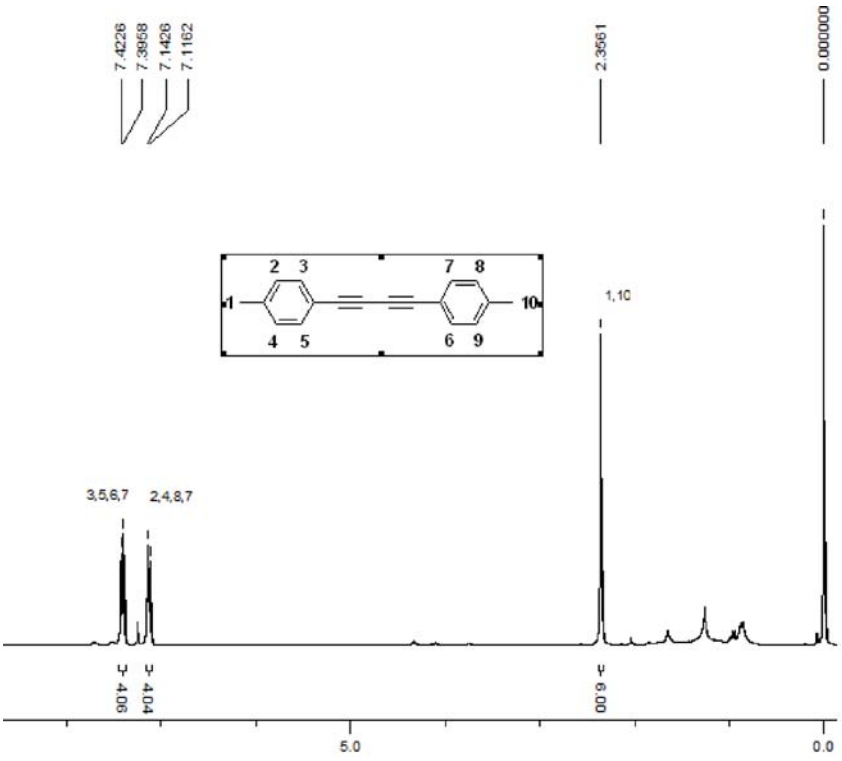

Figure S27. ^{1}H NMR ($CDCl_3$, 300 MHz) of **2d**.

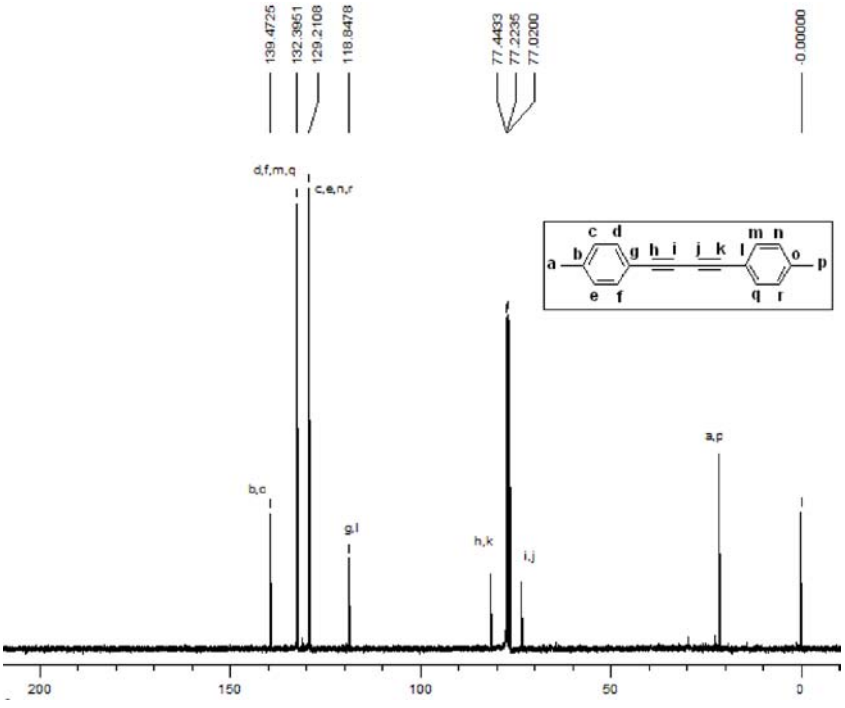

Figure S28. ^{13}C NMR ($CDCl_3$, 300 MHz) of **2d**.

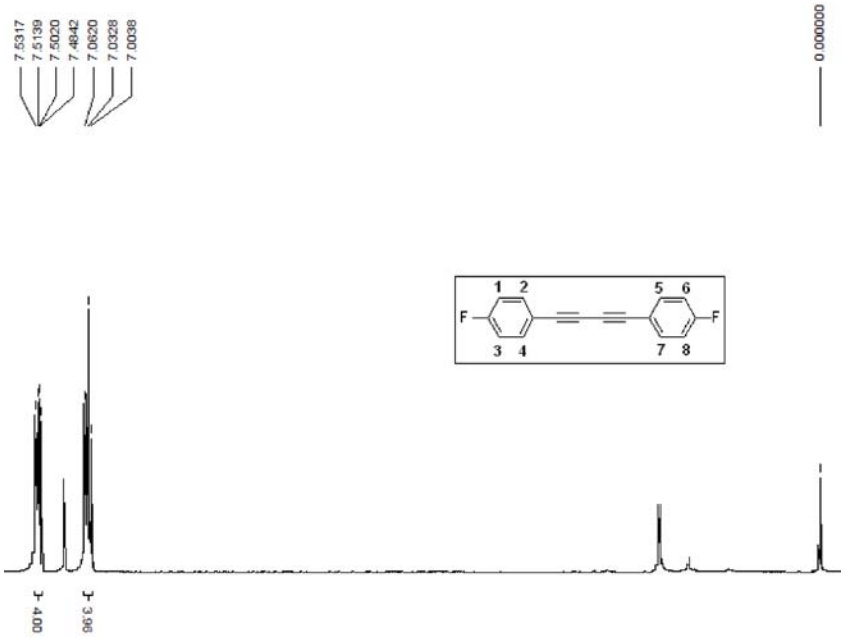

Figure S29. ^{1}H NMR ($CDCl_3$, 300 MHz) of **2e**.

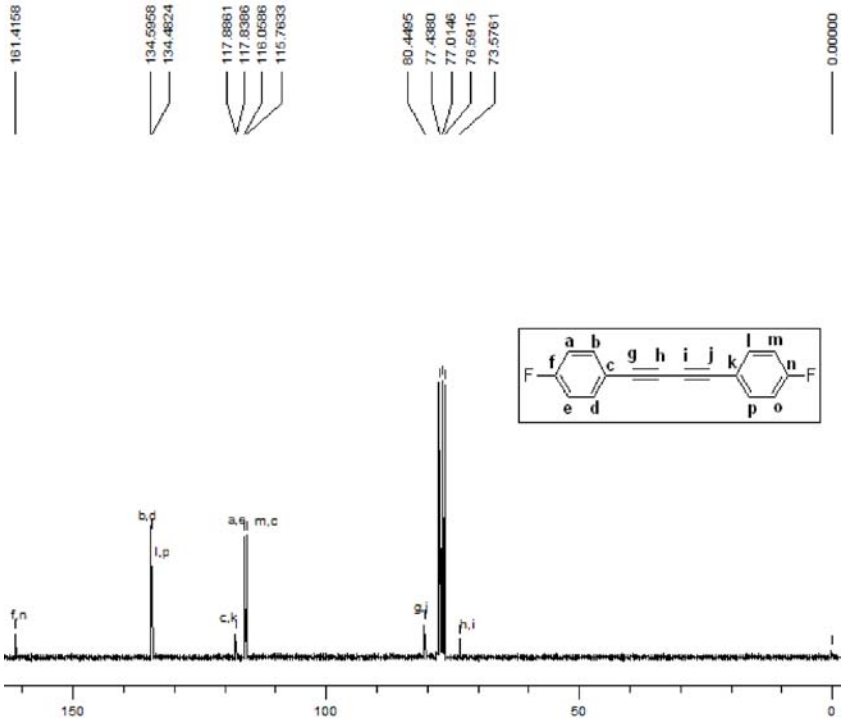

Figure S30. ^{13}C NMR ($CDCl_3$, 300 MHz) of **2e**.

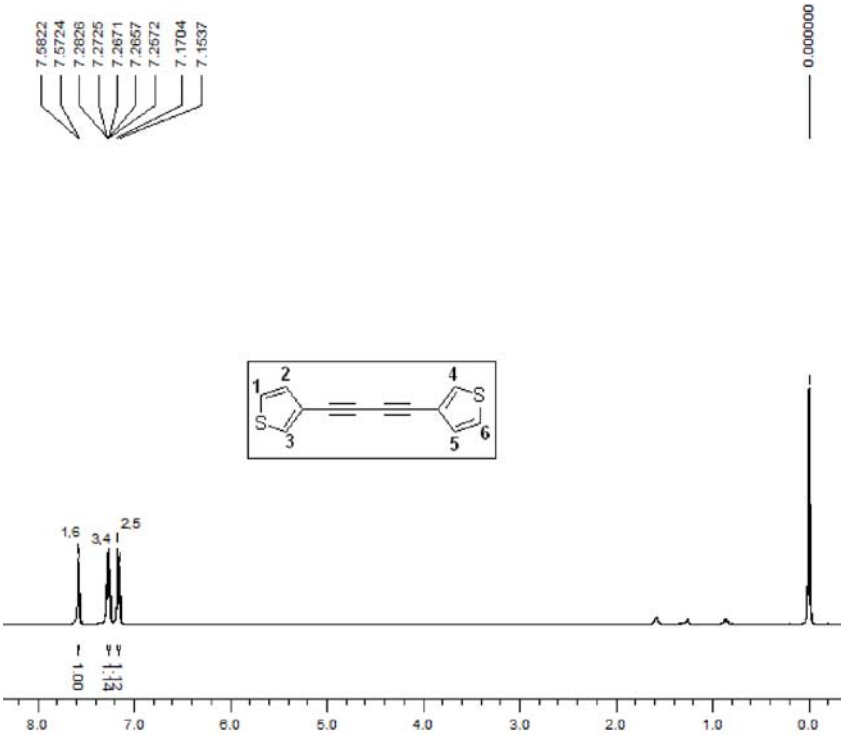

Figure S31. ^{1}H NMR ($CDCl_3$, 300 MHz) of **2f**.

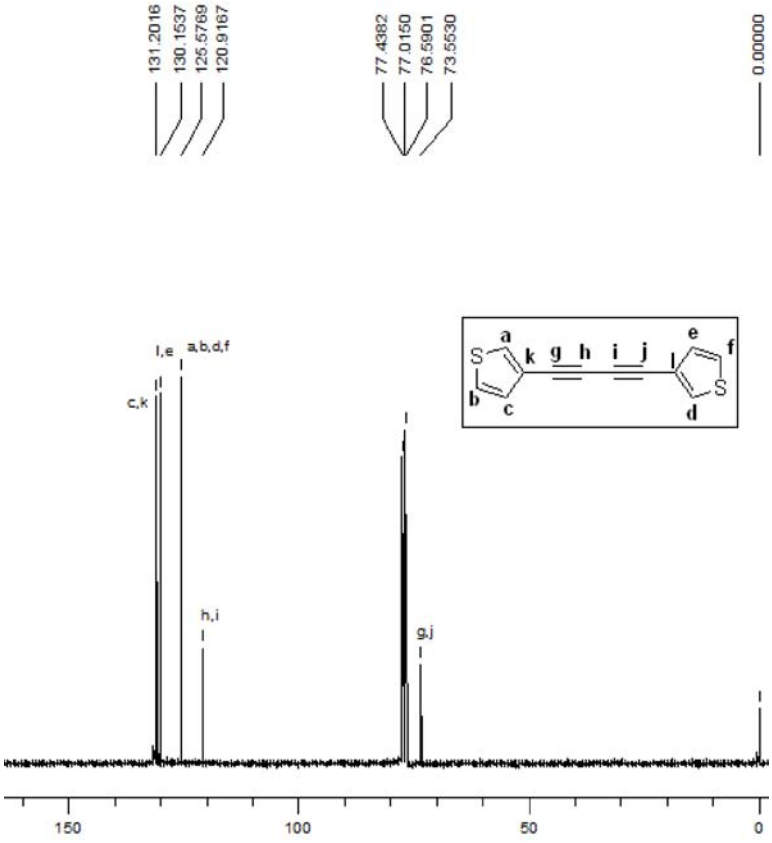

Figure S32. ^{13}C NMR ($CDCl_3$, 300 MHz) of **2f**.

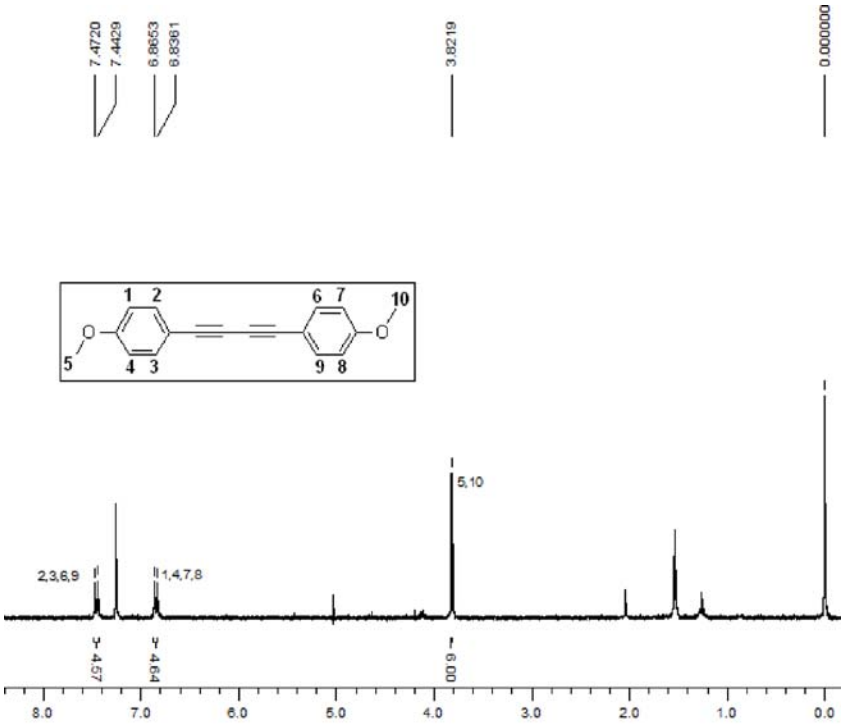

Figure S33. ^{1}H NMR ($CDCl_3$, 300 MHz) of **2g**.

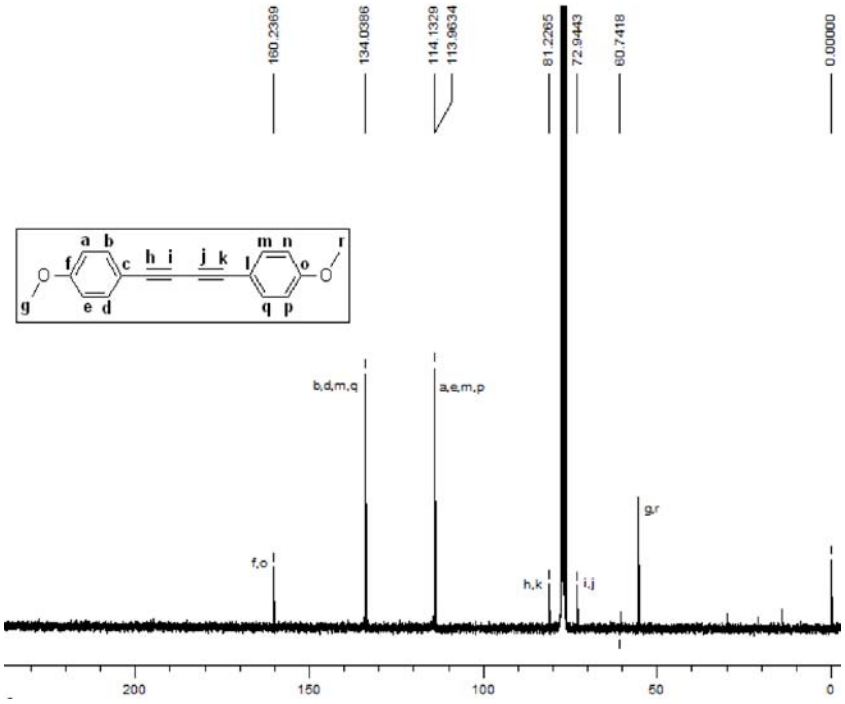

Figure S34. ^{13}C NMR ($CDCl_3$, 300 MHz) of **2g**.

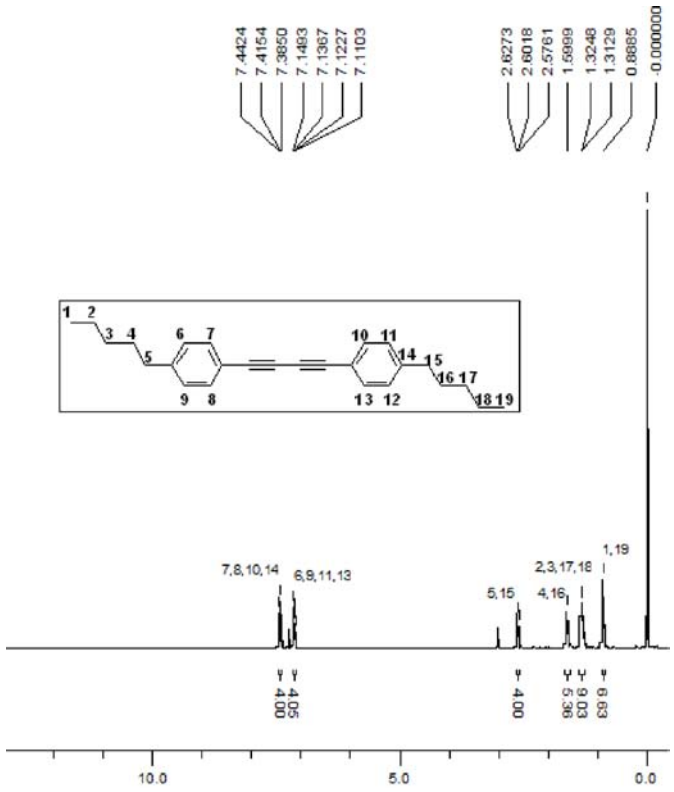

Figure S35. ^{1}H NMR ($CDCl_3$, 300 MHz) of **2h**.

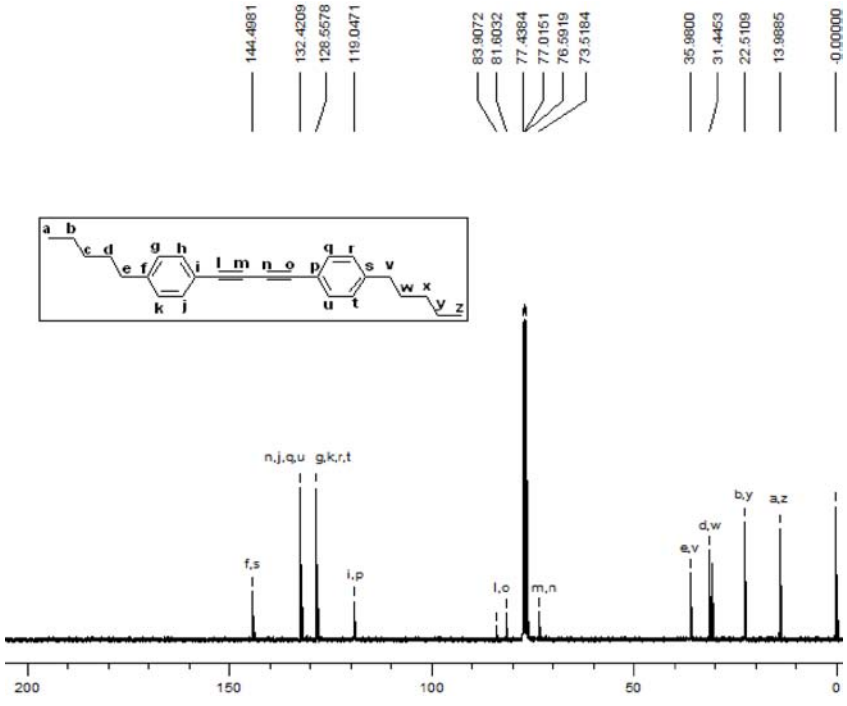

Figure S36. ^{13}C NMR ($CDCl_3$, 300 MHz) of **2h**.

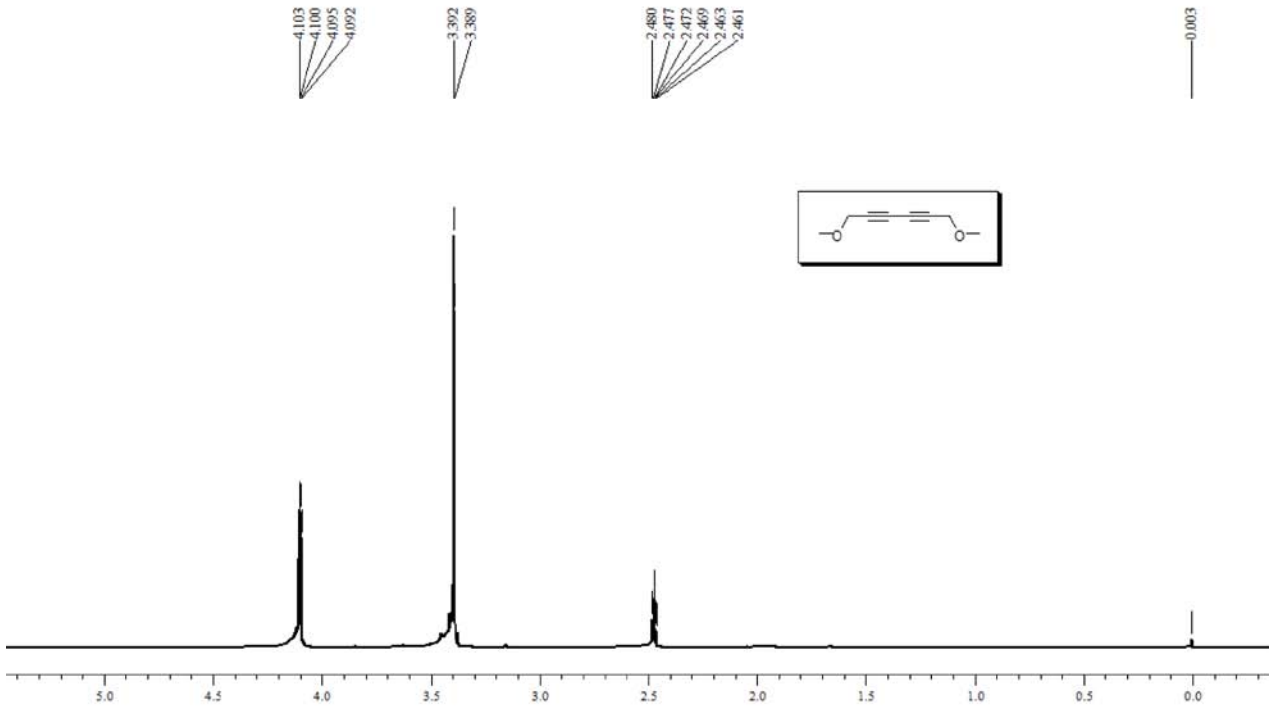

Figure S37. ^{1}H NMR ($CDCl_3$, 300 MHz) of **2i**.

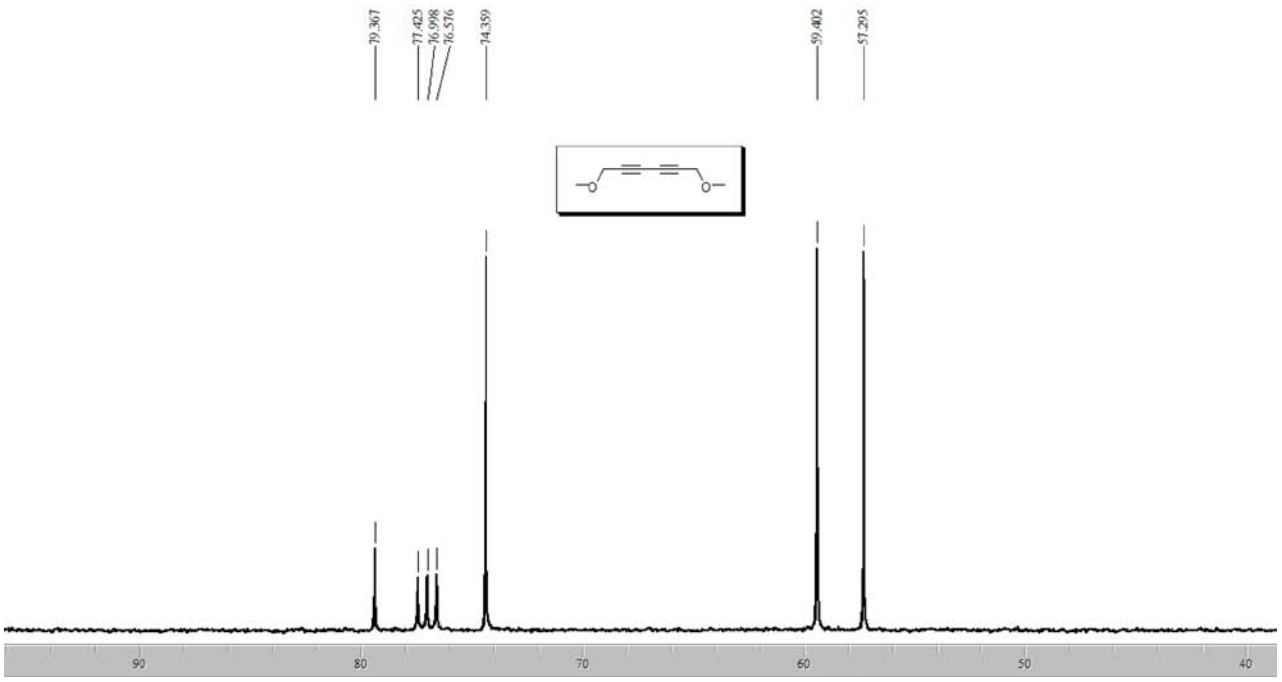

Figure S38. ^{13}C NMR ($CDCl_3$, 300 MHz) of **2i**.