

Supporting information

**Regioselective Synthesis of 2,4-Differentially Arylated Pyrroles and
its Application to the Synthesis of Lamellarins**

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^1H and ^{13}C NMR spectra

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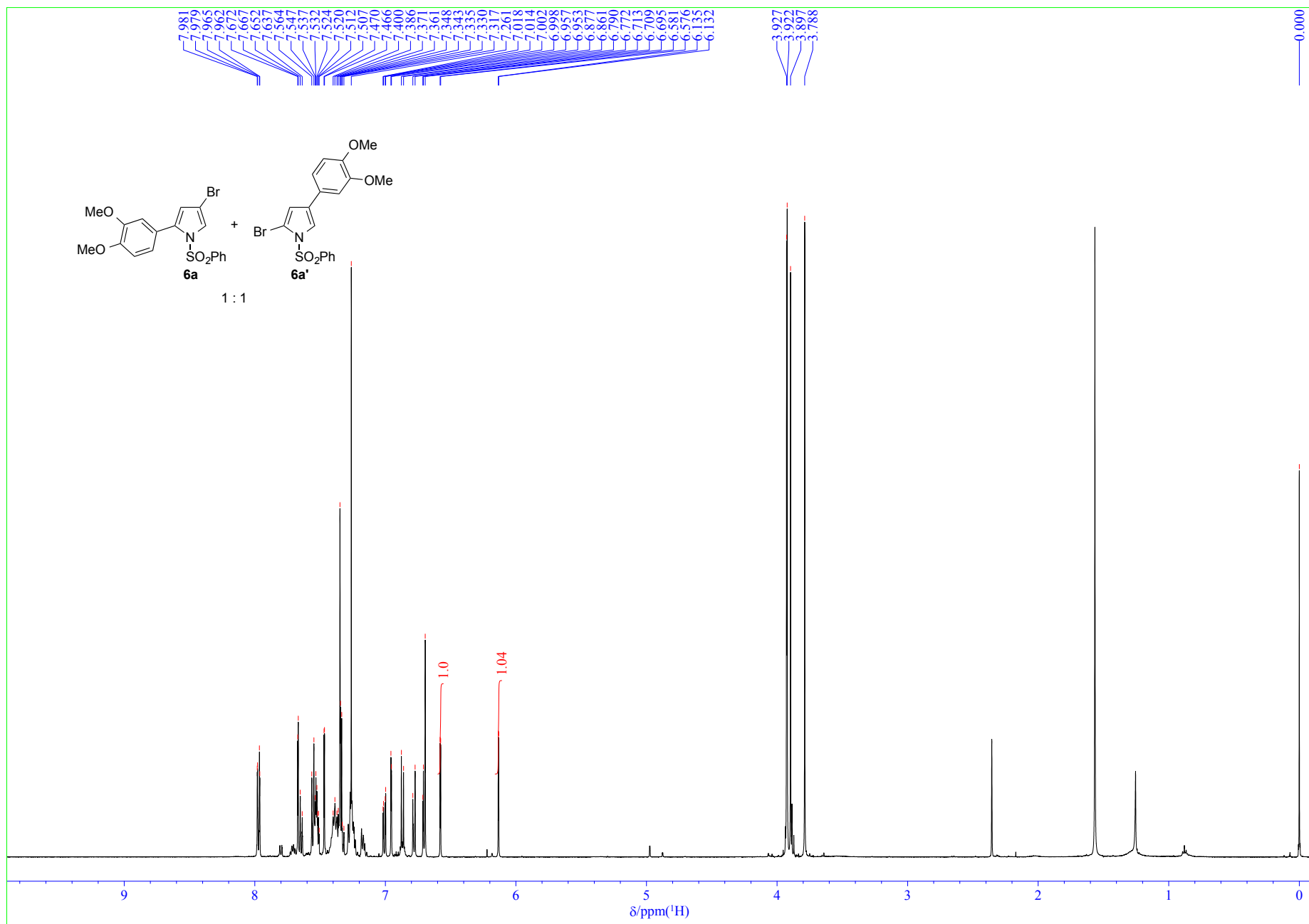


Figure S1. ¹H NMR spectrum of a mixture of compounds **6a** and **6a'** (Table 1, entry 1) (500 MHz, CDCl₃).

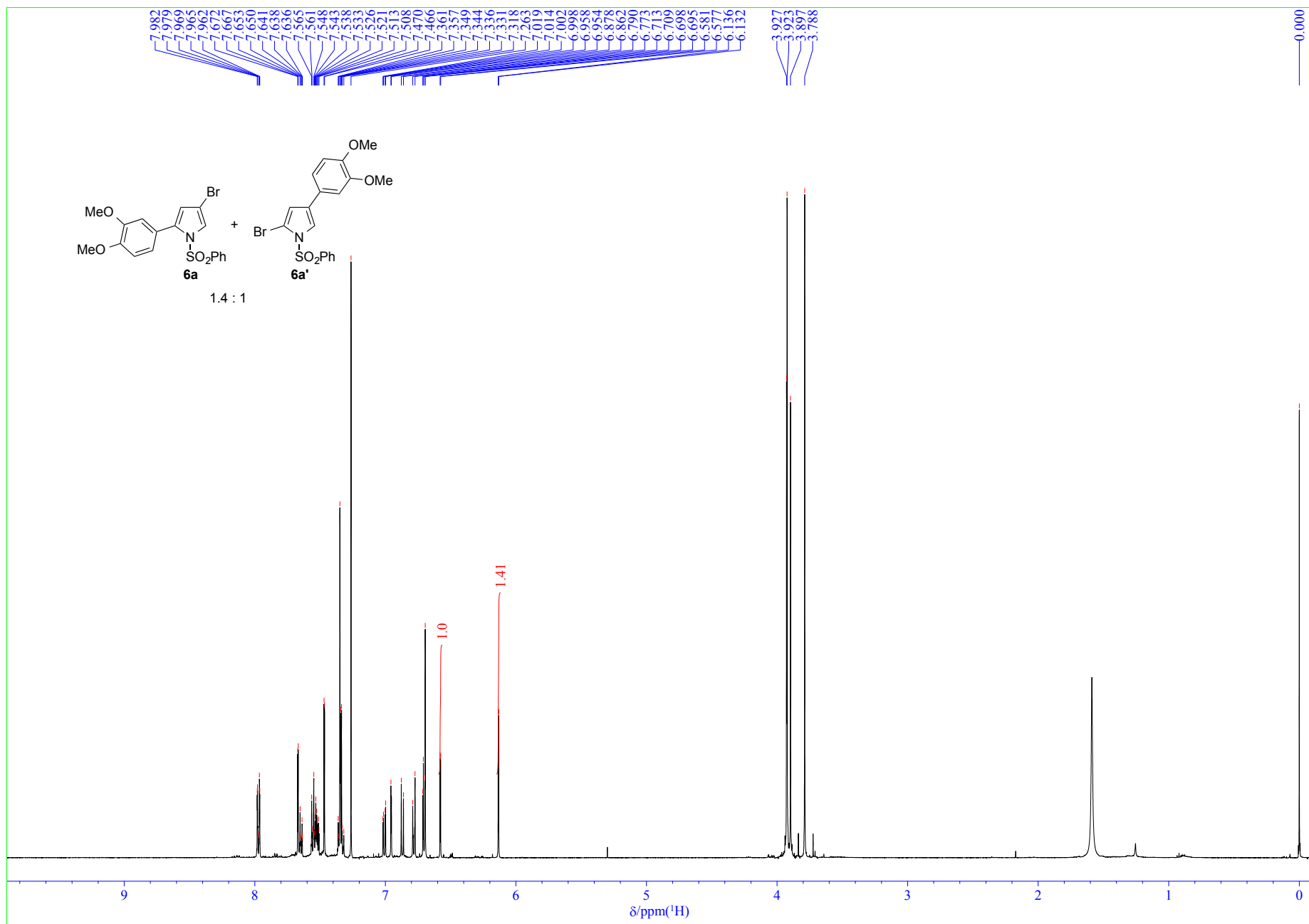


Figure S2. ^1H NMR spectrum of a mixture of compounds **6a** and **6a'** (Table 1, entry 2) (500 MHz, CDCl_3).

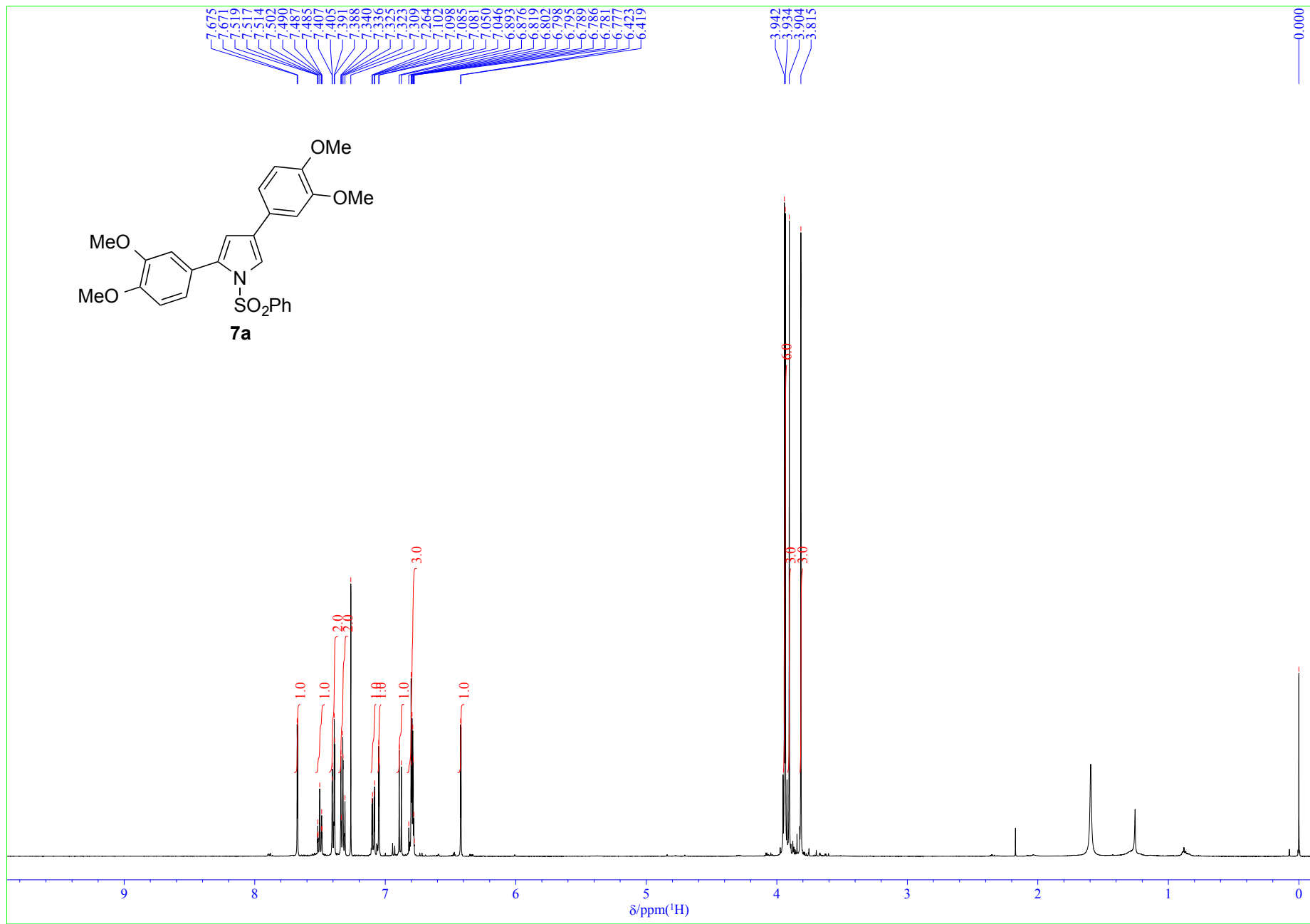


Figure S3. ¹H NMR spectrum of compound **7a** (500 MHz, CDCl₃).

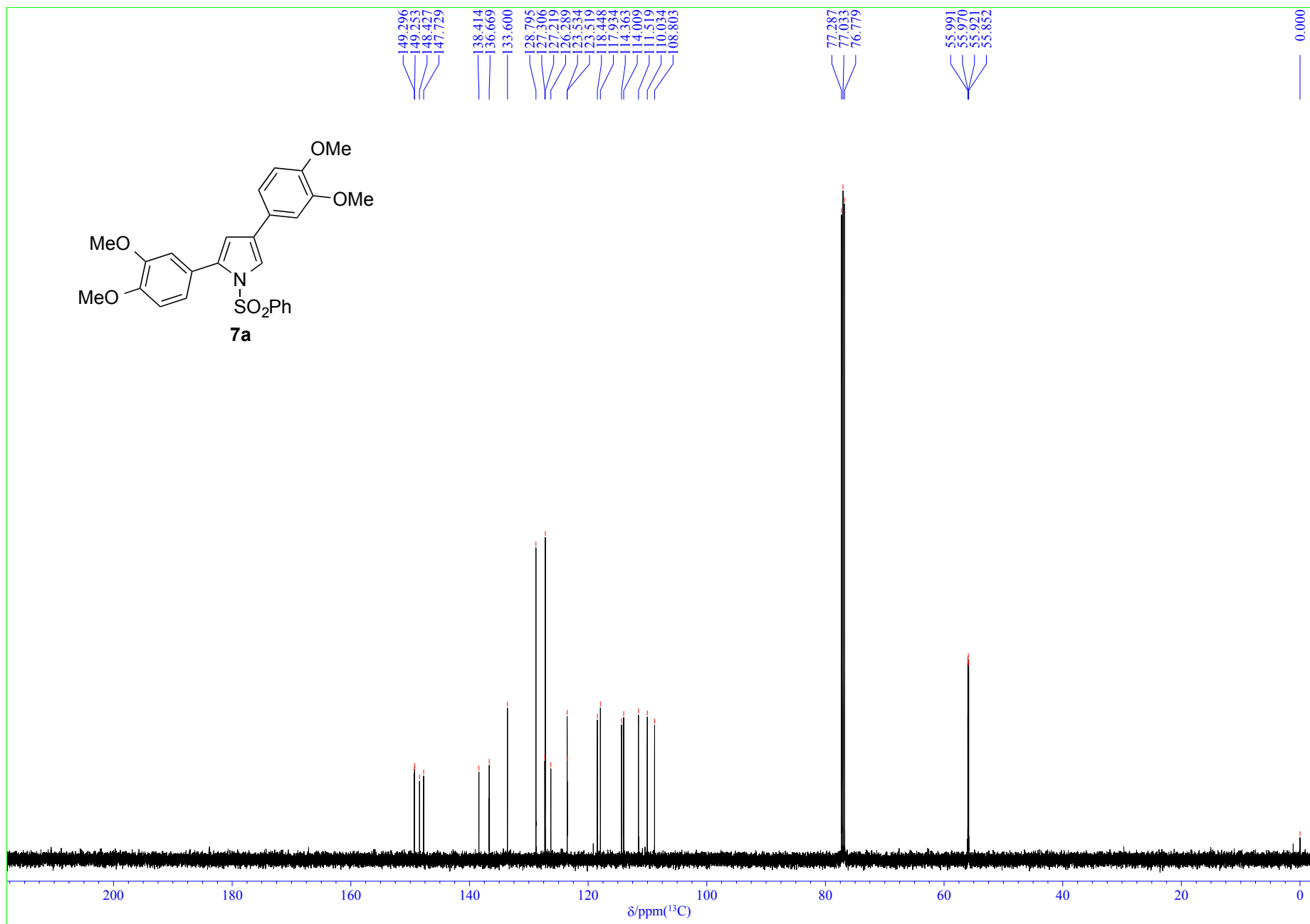


Figure S4. ^{13}C NMR spectrum of compound **7a** (125 MHz, CDCl_3).

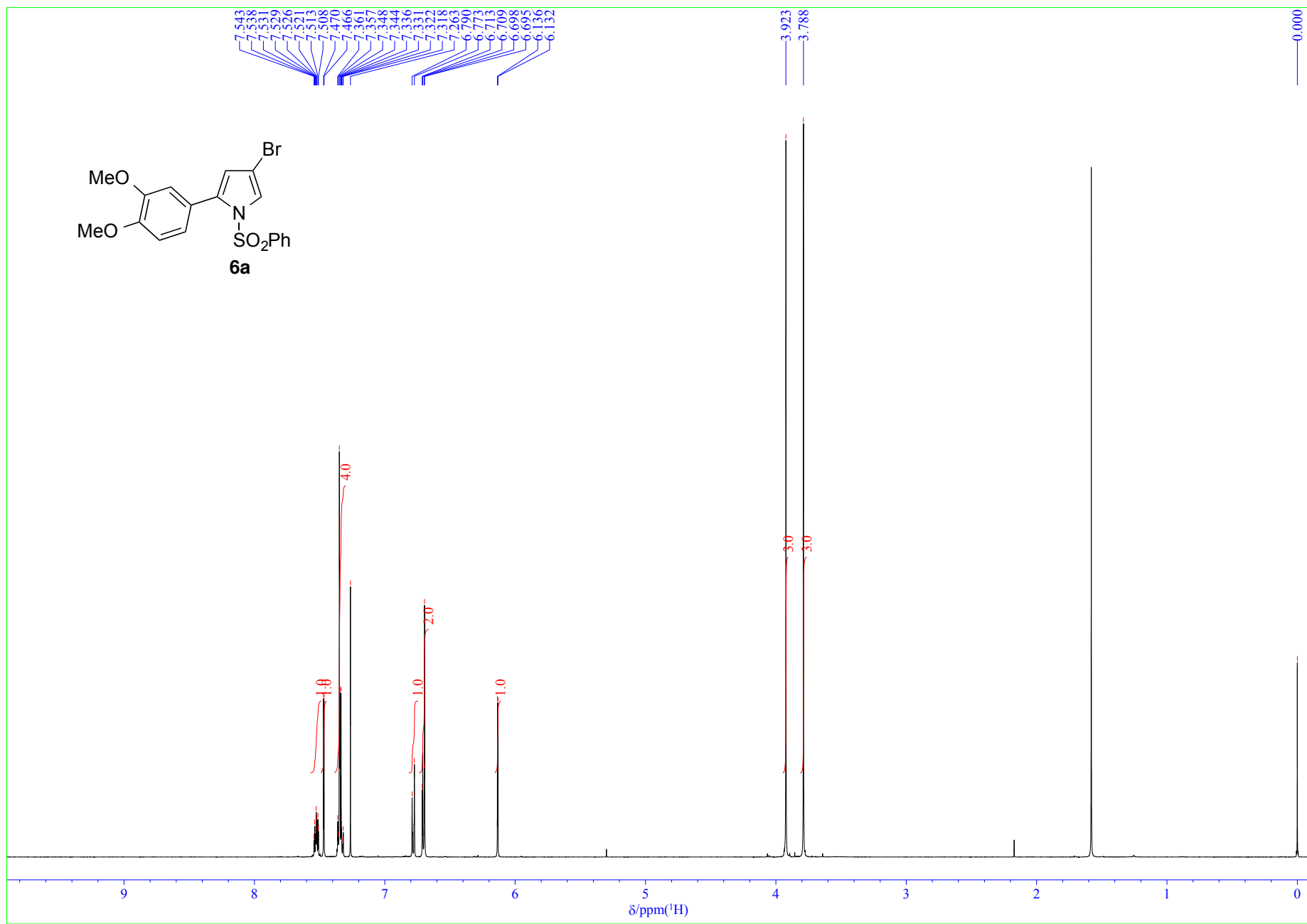


Figure S5. $^1\text{H NMR}$ spectrum of compound **6a** (500 MHz, CDCl_3).

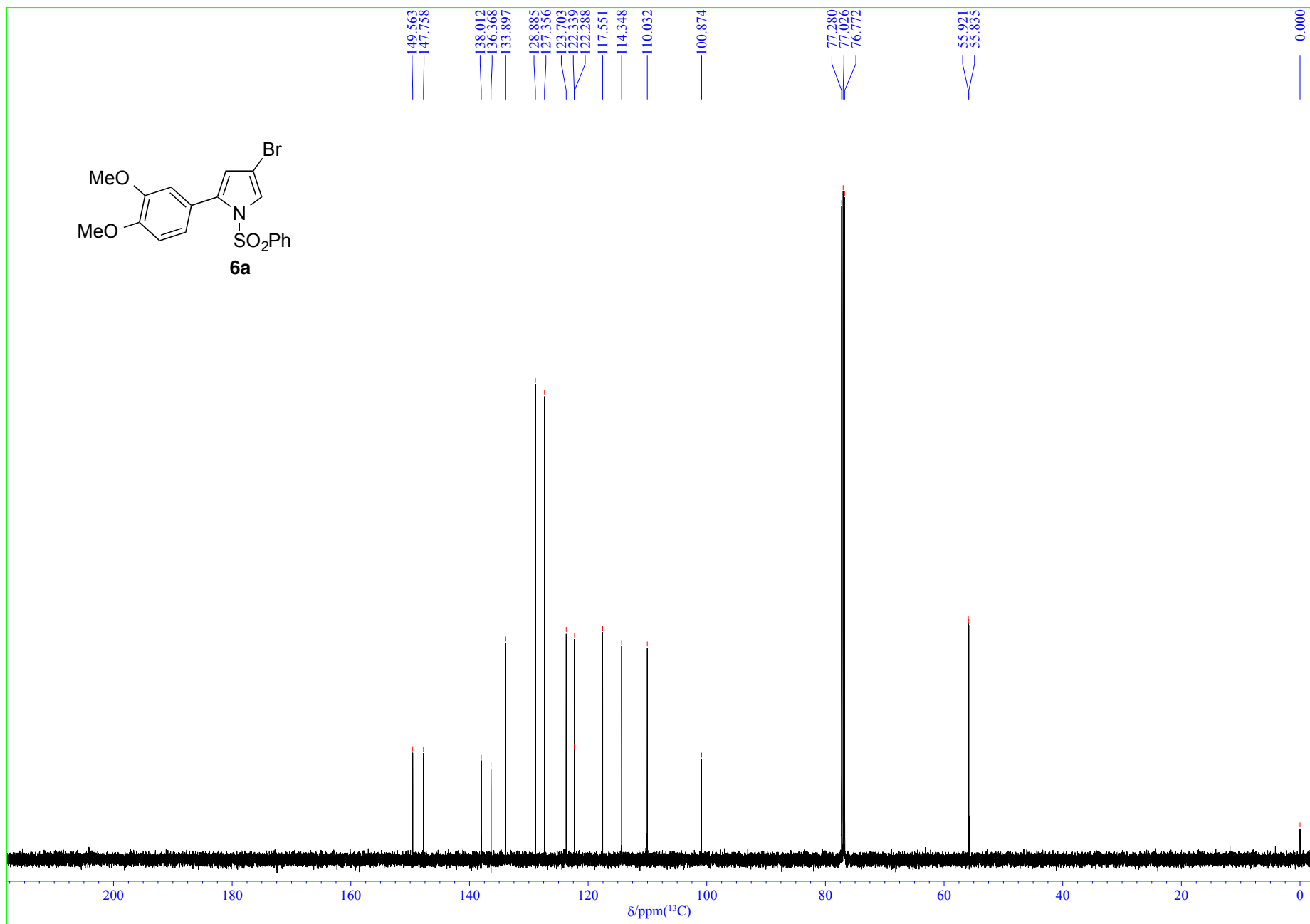


Figure S6. ^{13}C NMR spectrum of compound **6a** (125 MHz, CDCl_3).

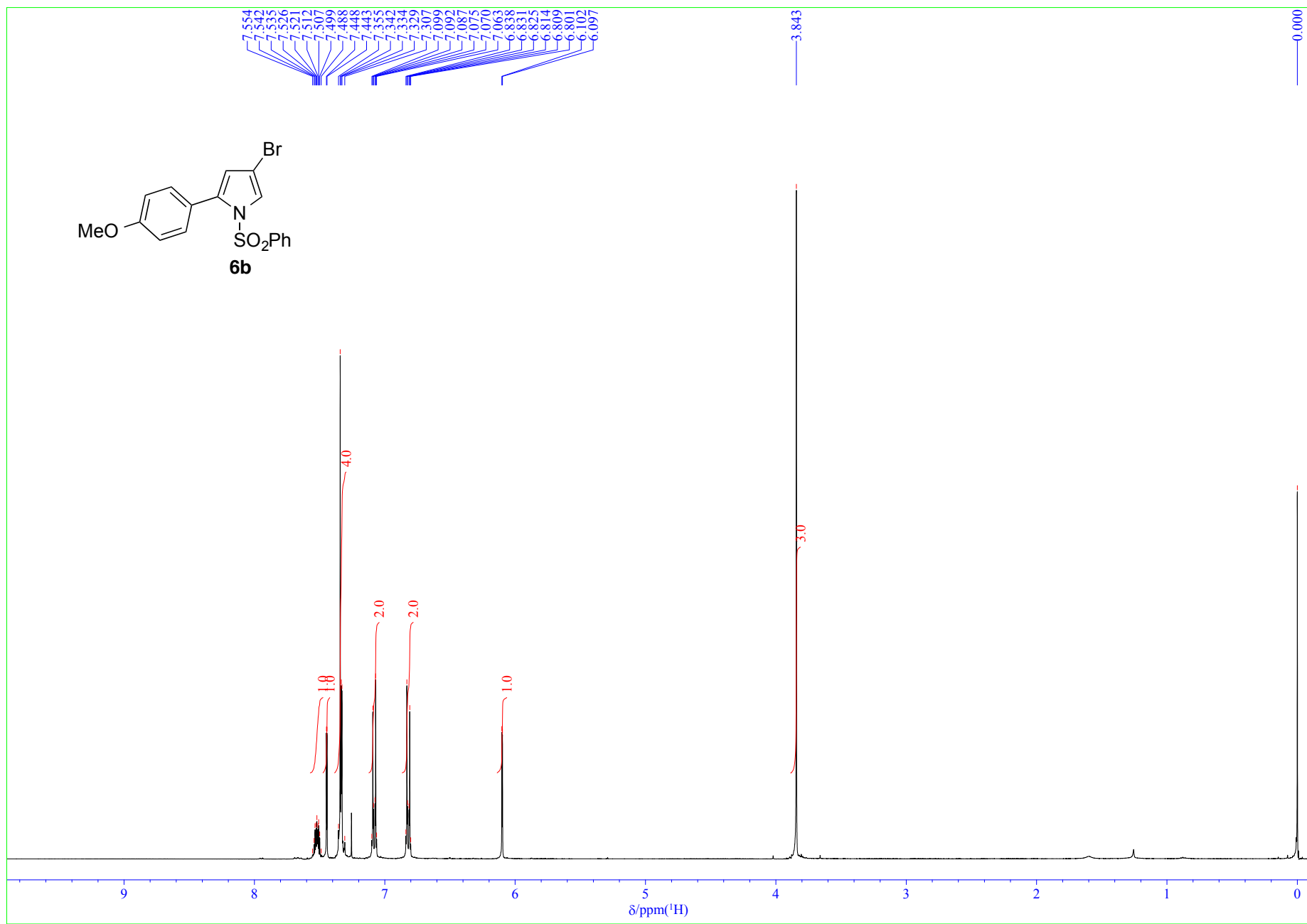


Figure S7. ${}^1\text{H}$ NMR spectrum of compound **6b** (400 MHz, CDCl_3).

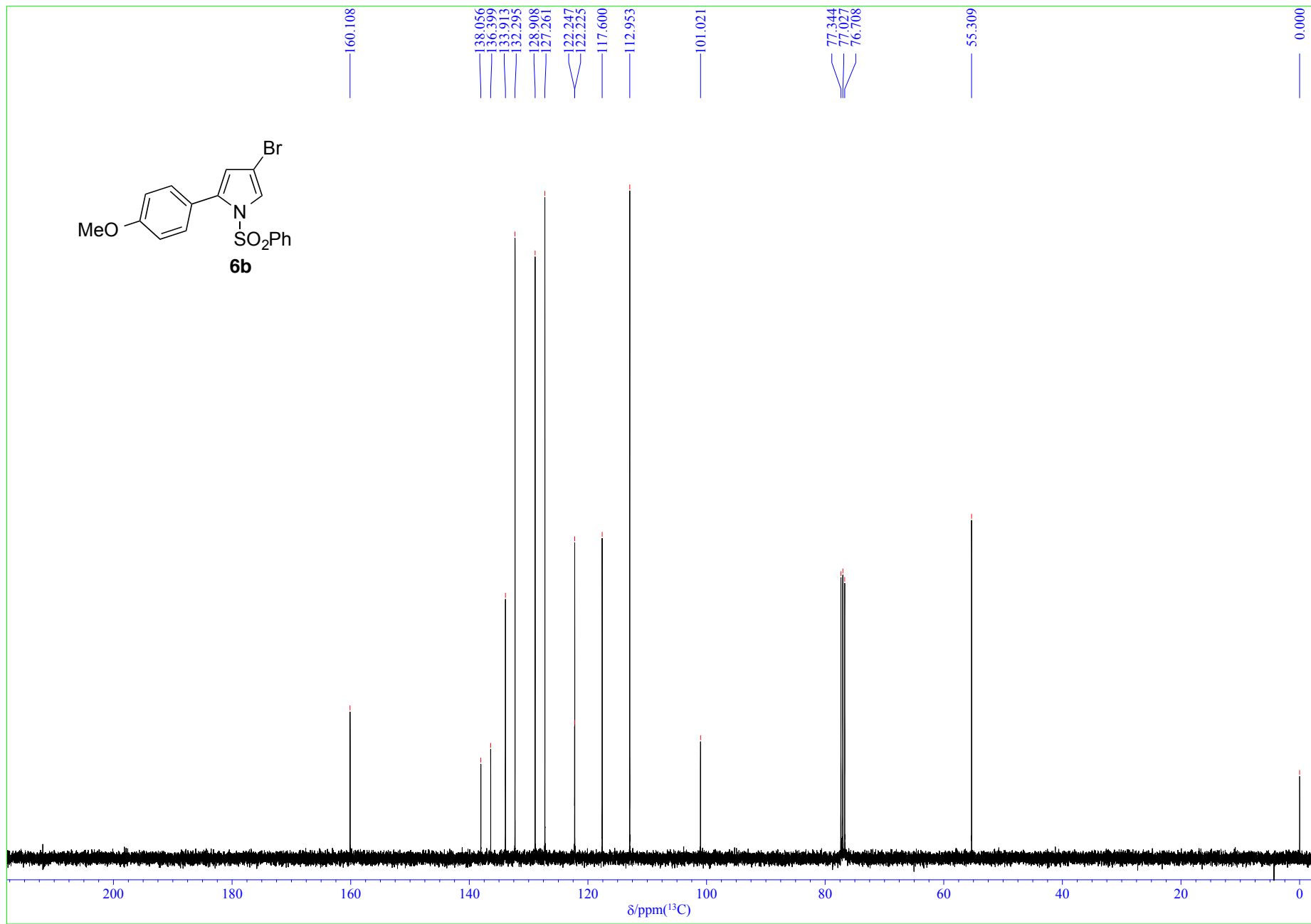


Figure S8. ^{13}C NMR spectrum of compound **6b** (100 MHz, CDCl_3).

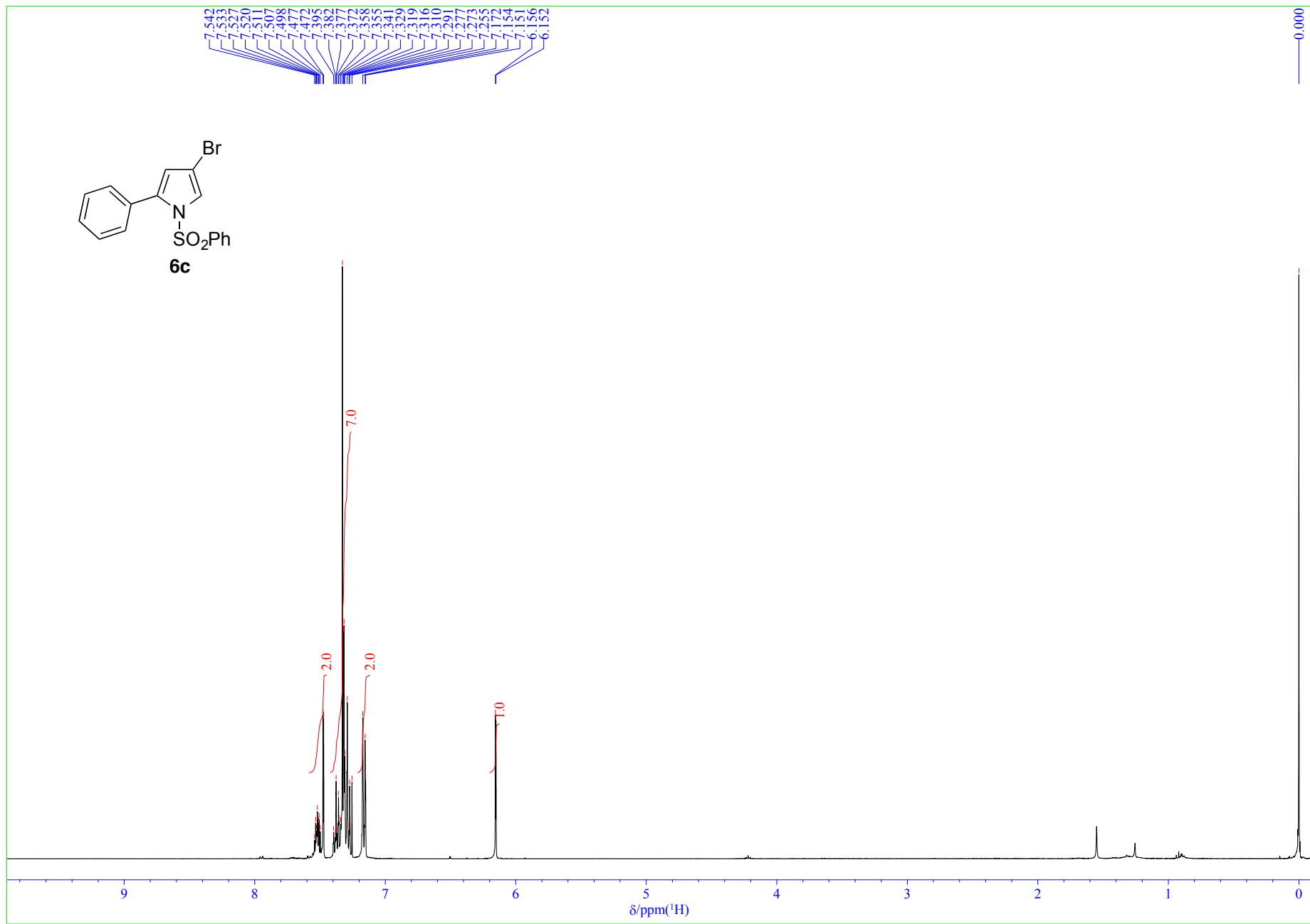


Figure S9. ${}^1\text{H}$ NMR spectrum of compound **6c** (400 MHz, CDCl_3).

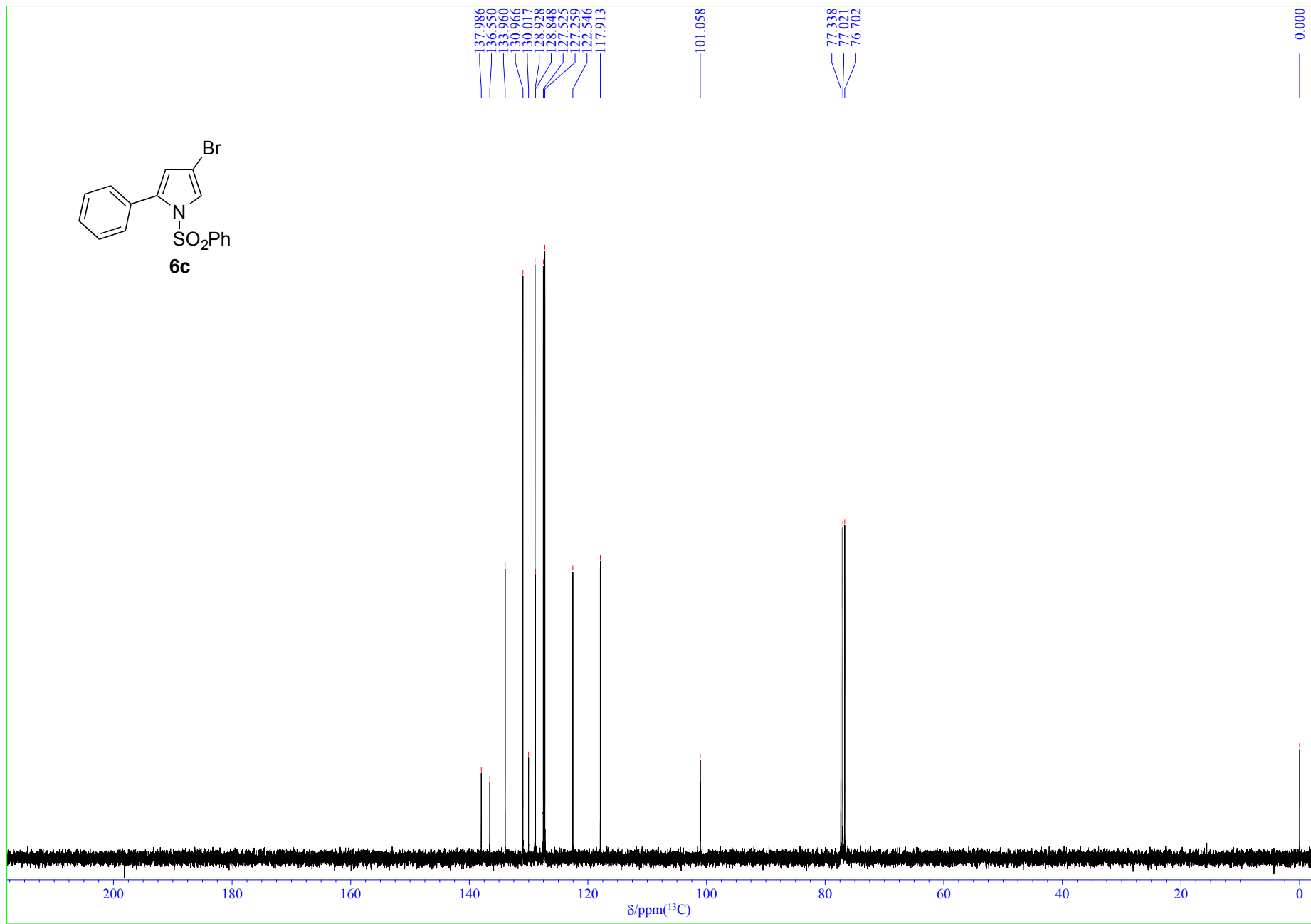


Figure S10. ${}^{13}\text{C}$ NMR spectrum of compound **6c** (100 MHz, CDCl_3).

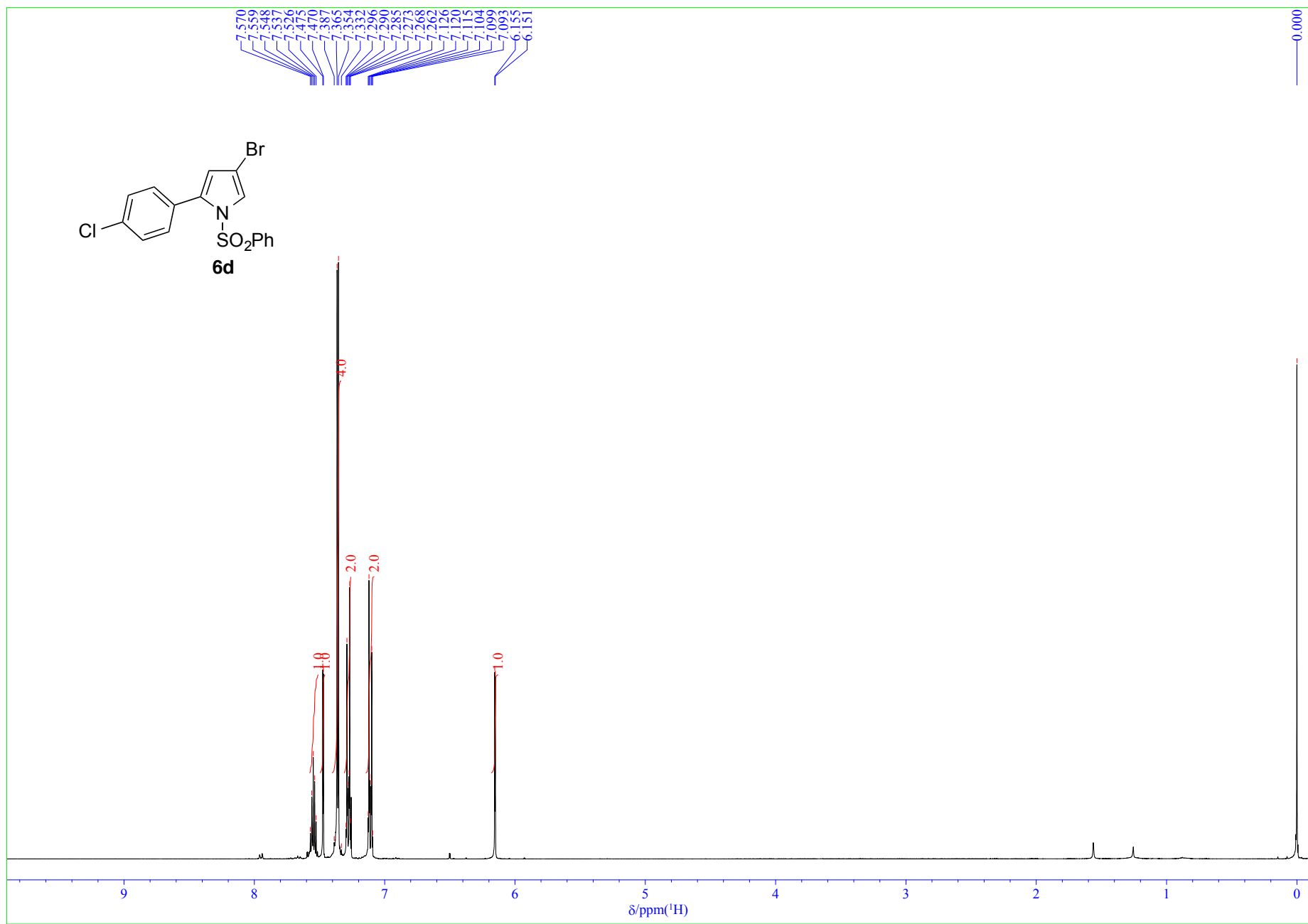


Figure S11. ^1H NMR spectrum of compound **6d** (400 MHz, CDCl_3).

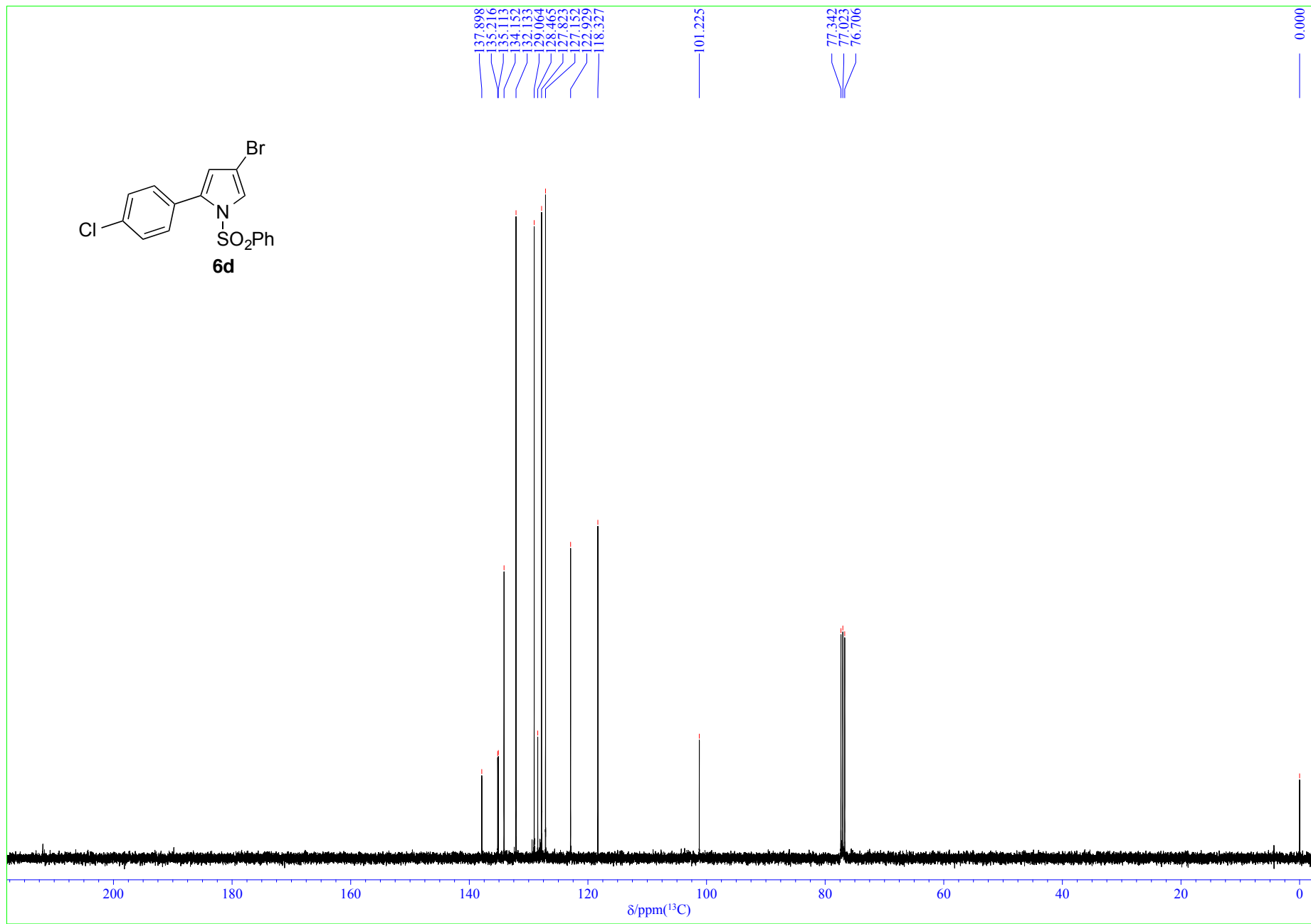


Figure S12. ^{13}C NMR spectrum of compound **6d** (100 MHz, CDCl_3).

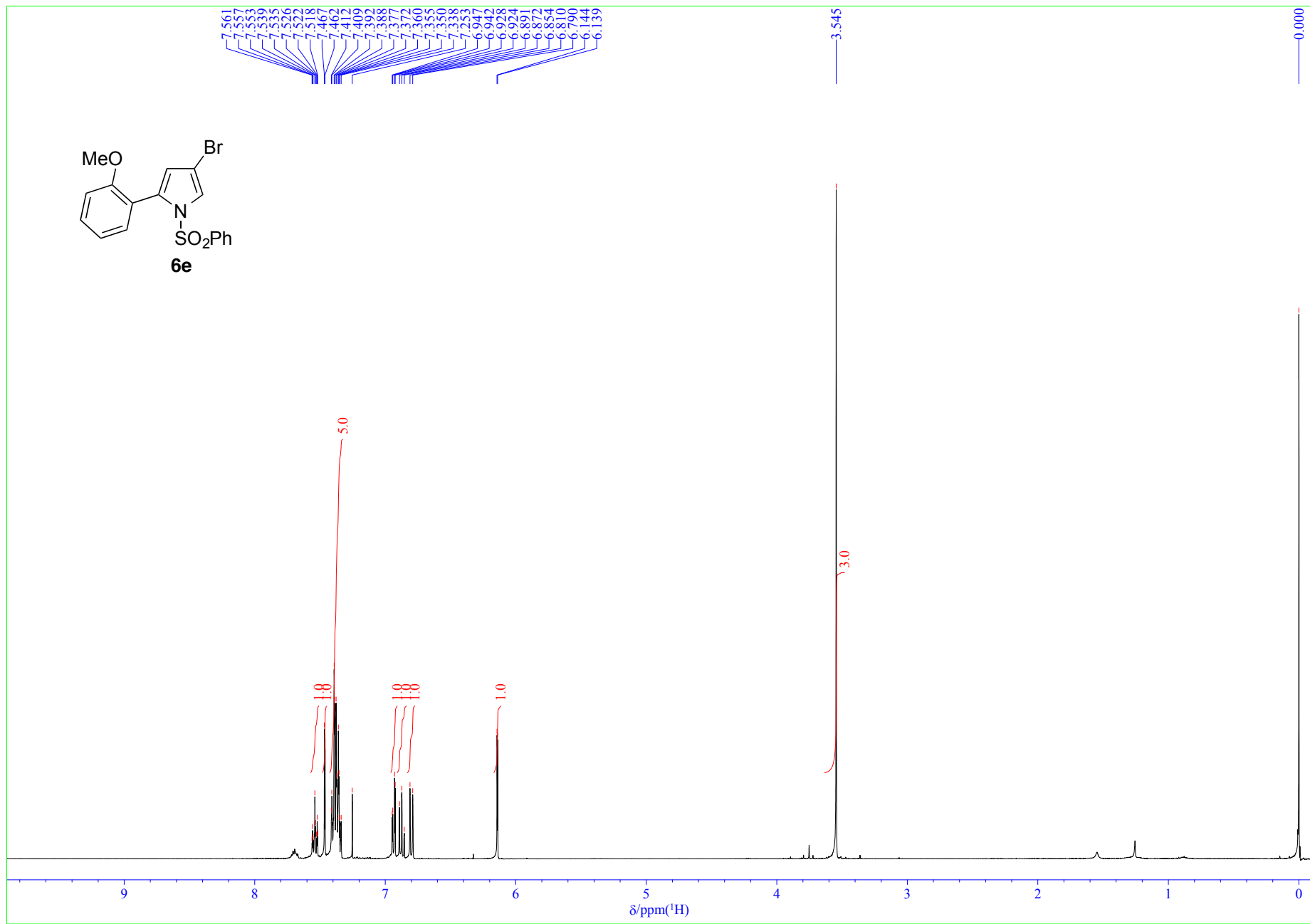


Figure S13. ¹H NMR spectrum of compound **6e** (400 MHz, CDCl₃).

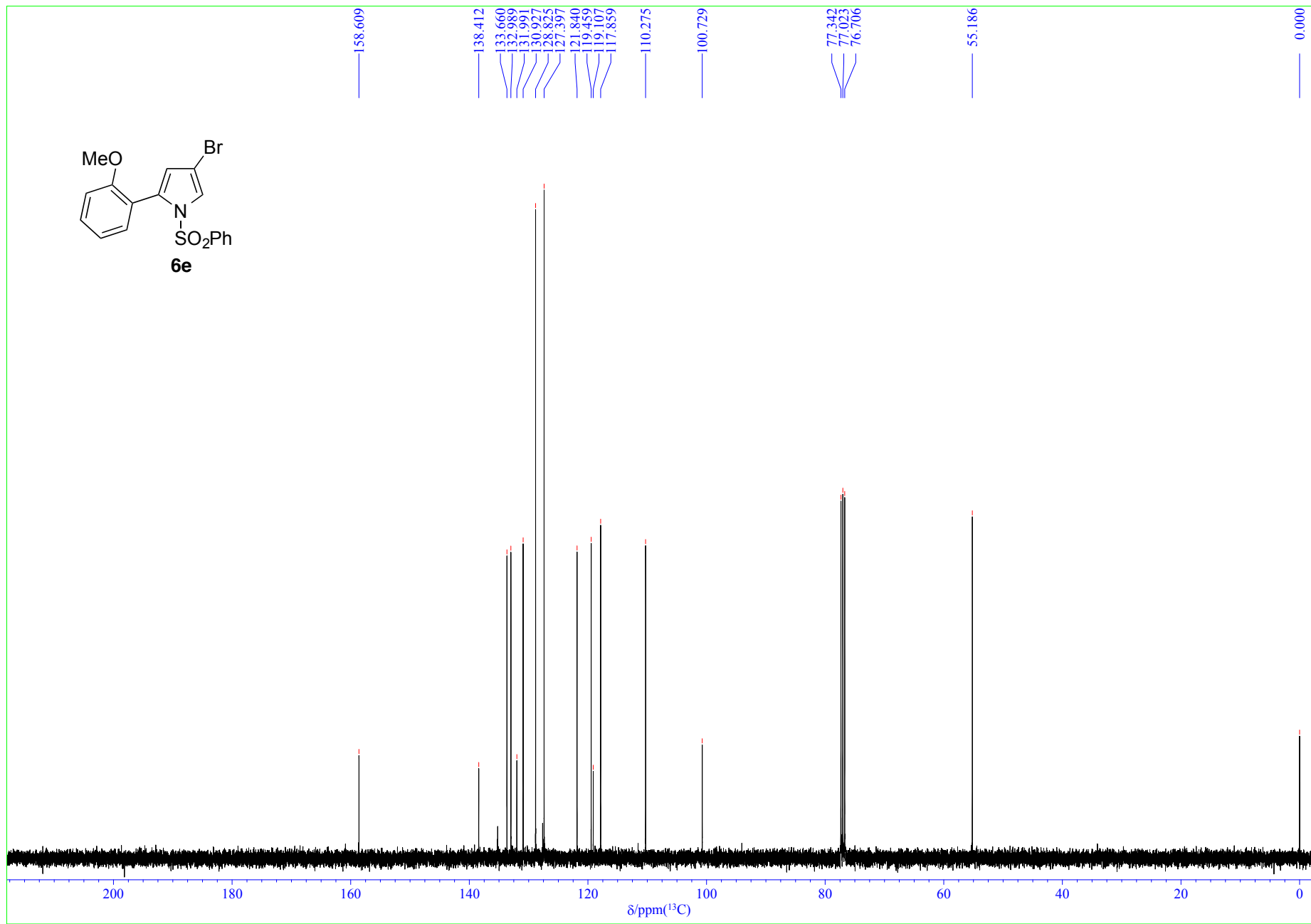


Figure S14. ^{13}C NMR spectrum of compound **6e** (100 MHz, CDCl_3).

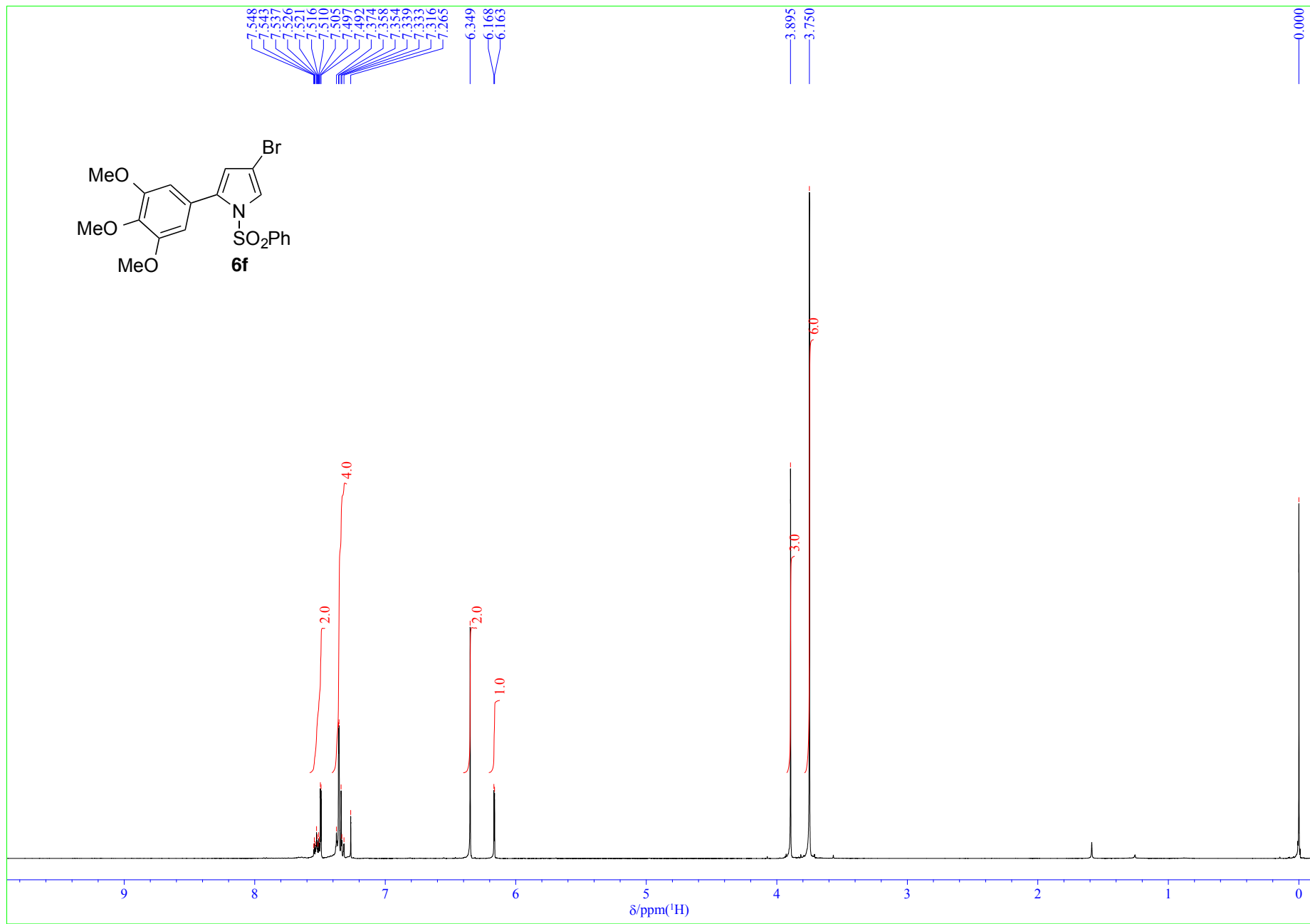


Figure S15. ¹H NMR spectrum of compound **6f** (400 MHz, CDCl₃).

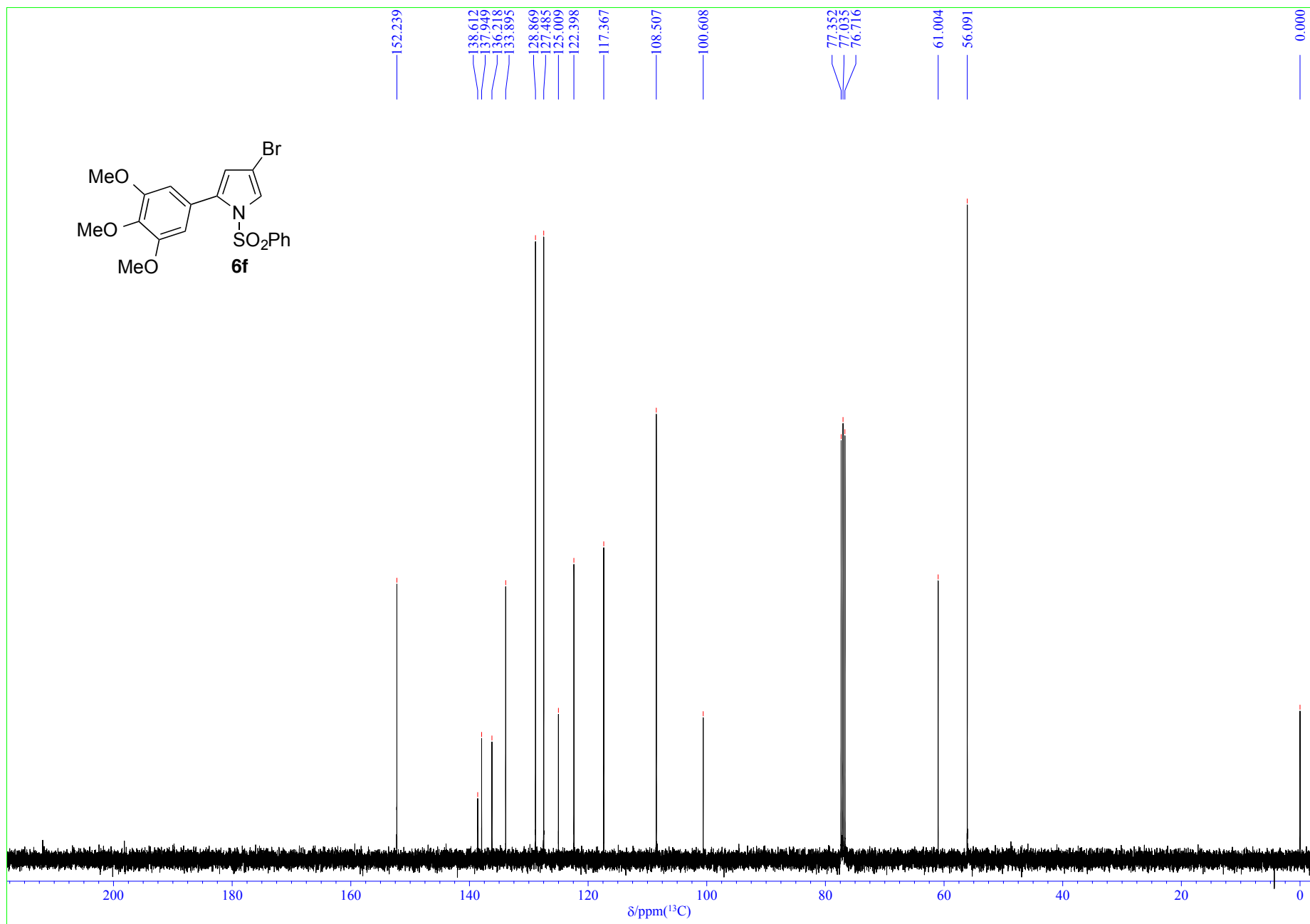


Figure S16. ^{13}C NMR spectrum of compound **6f** (100 MHz, CDCl_3).

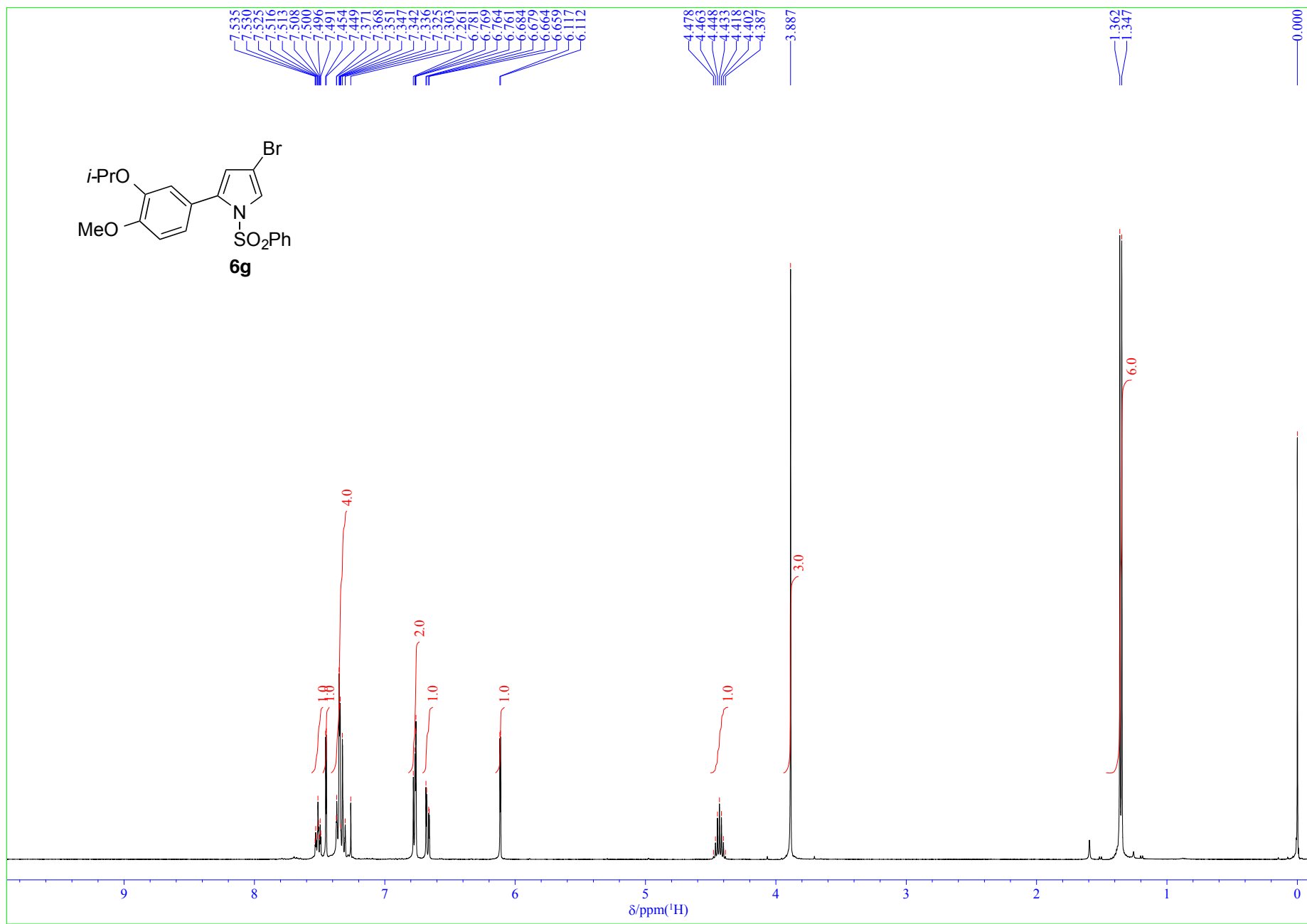


Figure S17. ^1H NMR spectrum of compound **6g** (400 MHz, CDCl_3).

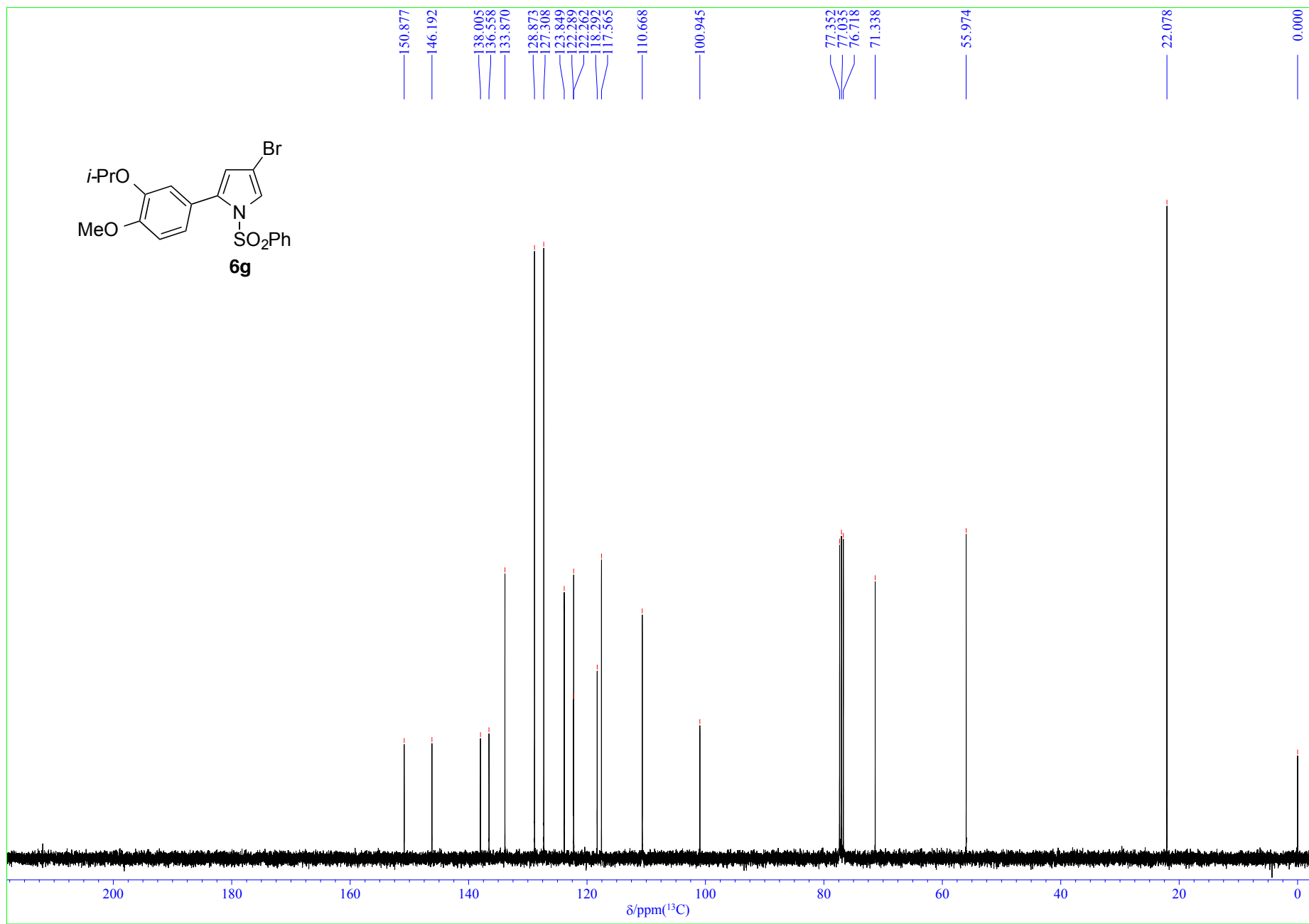


Figure S18. ¹³C NMR spectrum of compound **6g** (100 MHz, CDCl₃).

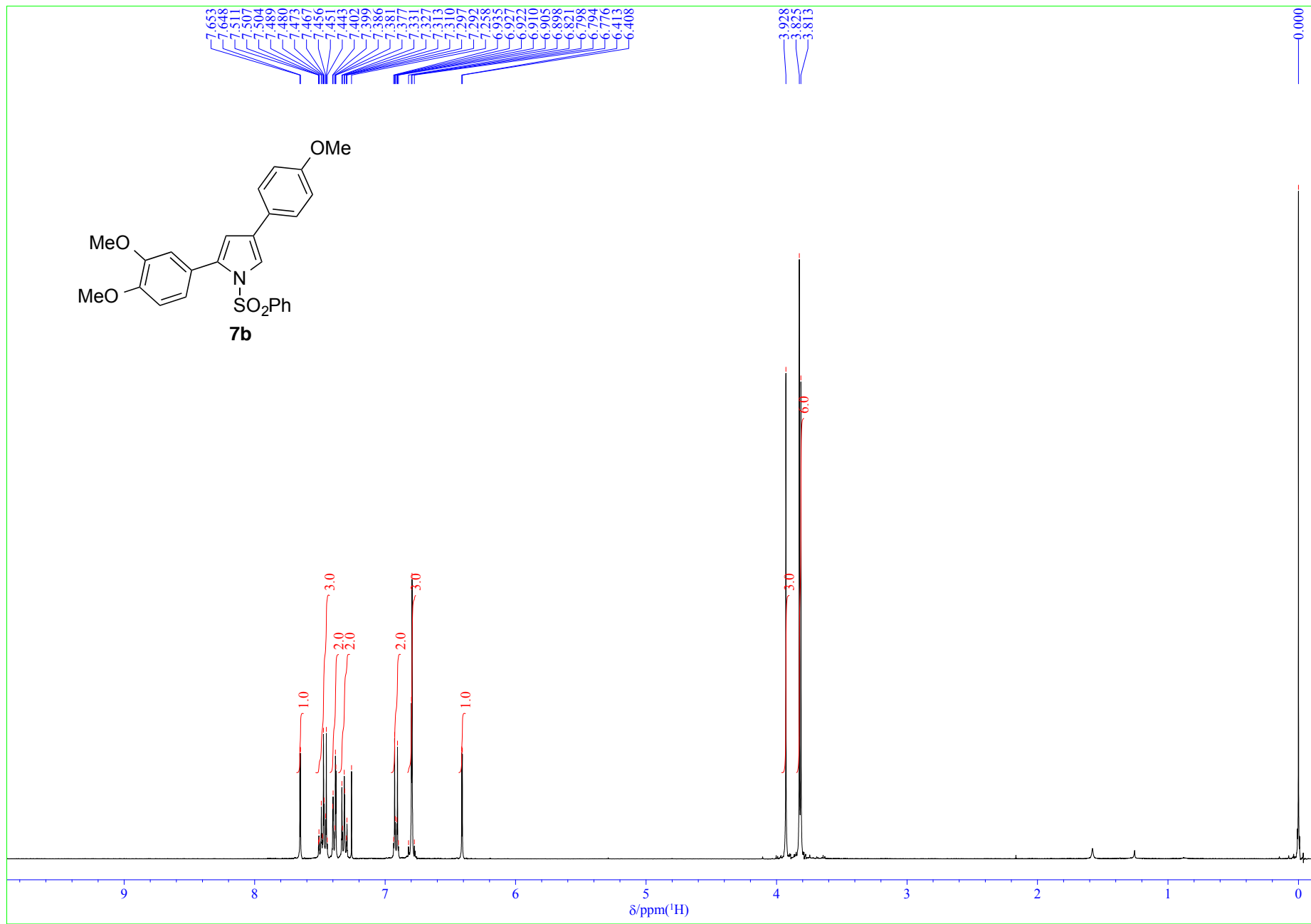


Figure S19. ^1H NMR spectrum of compound **7b** (400 MHz, CDCl_3).

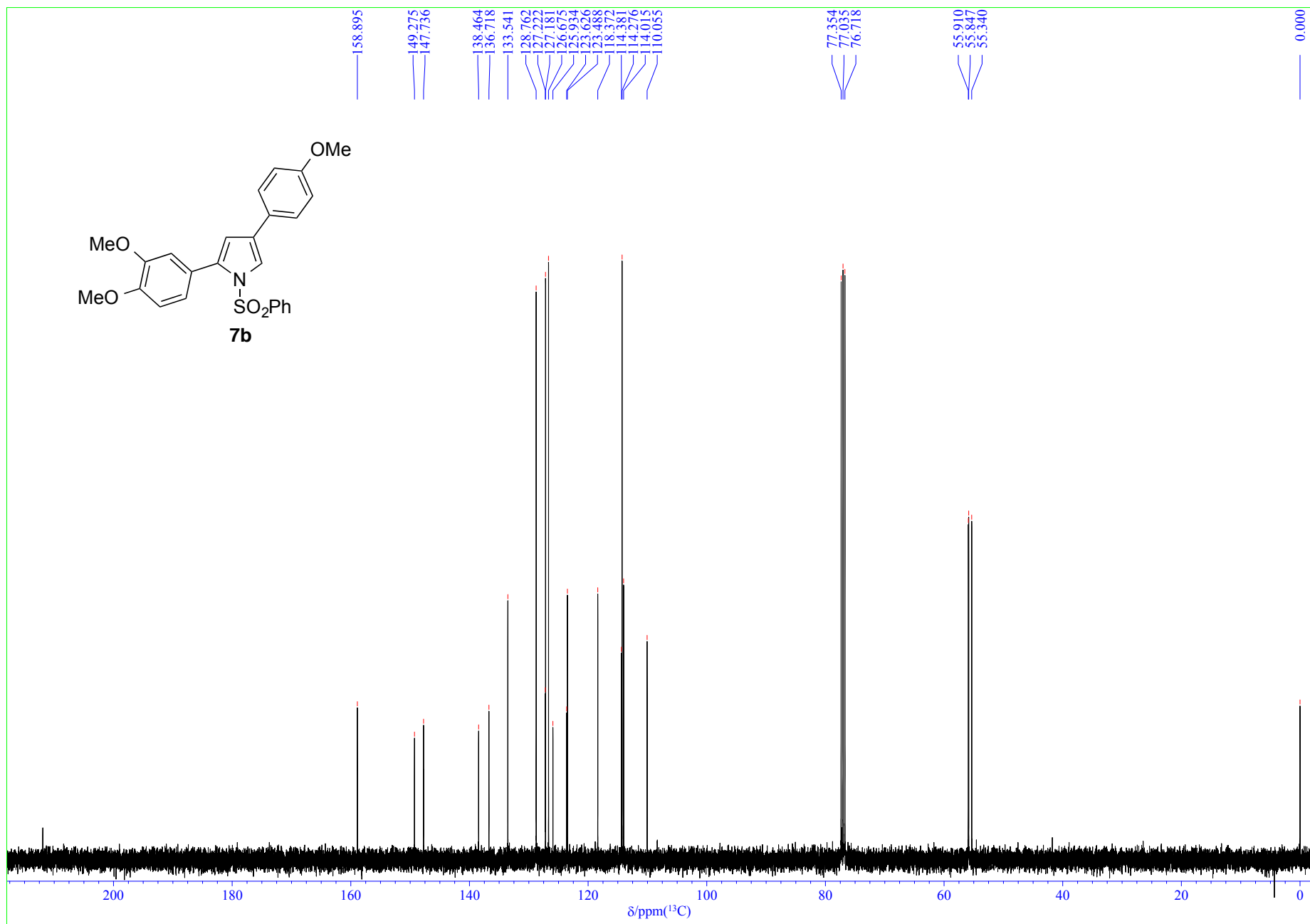


Figure S20. ^{13}C NMR spectrum of compound **7b** (100 MHz, CDCl_3).

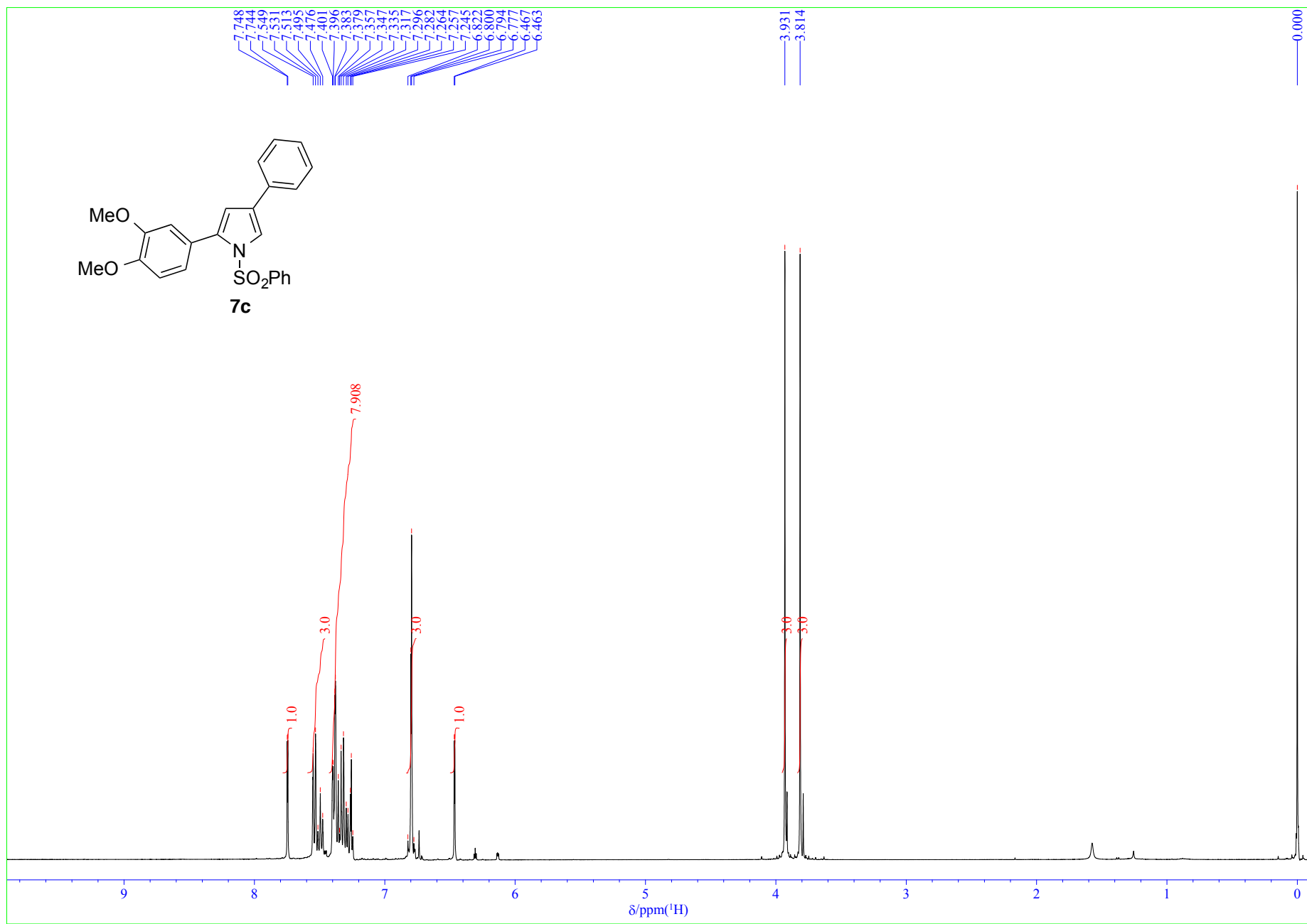


Figure S21. ¹H NMR spectrum of compound **7c** (400 MHz, CDCl₃).

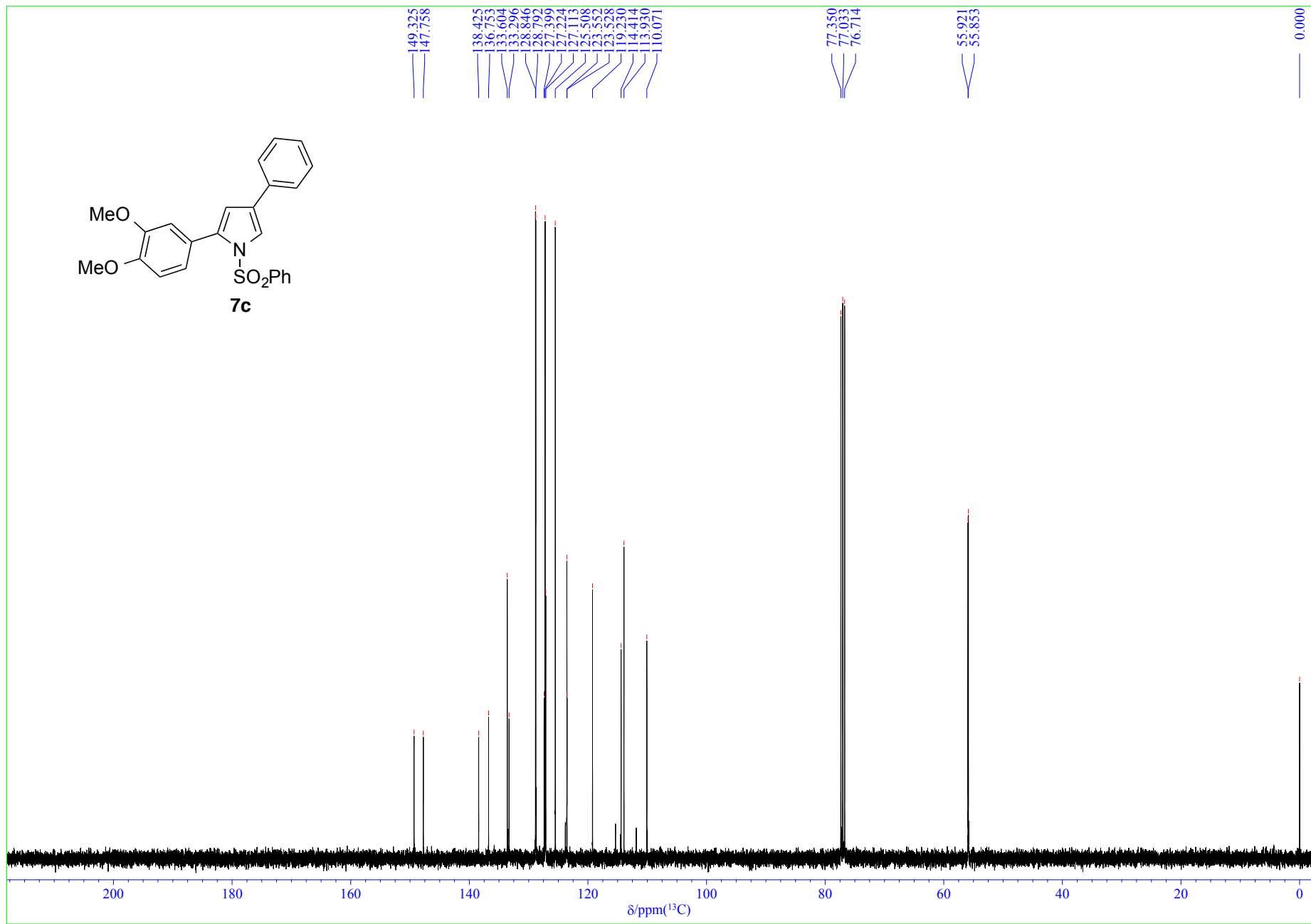


Figure S22. ¹³C NMR spectrum of compound **7c** (100 MHz, CDCl₃).

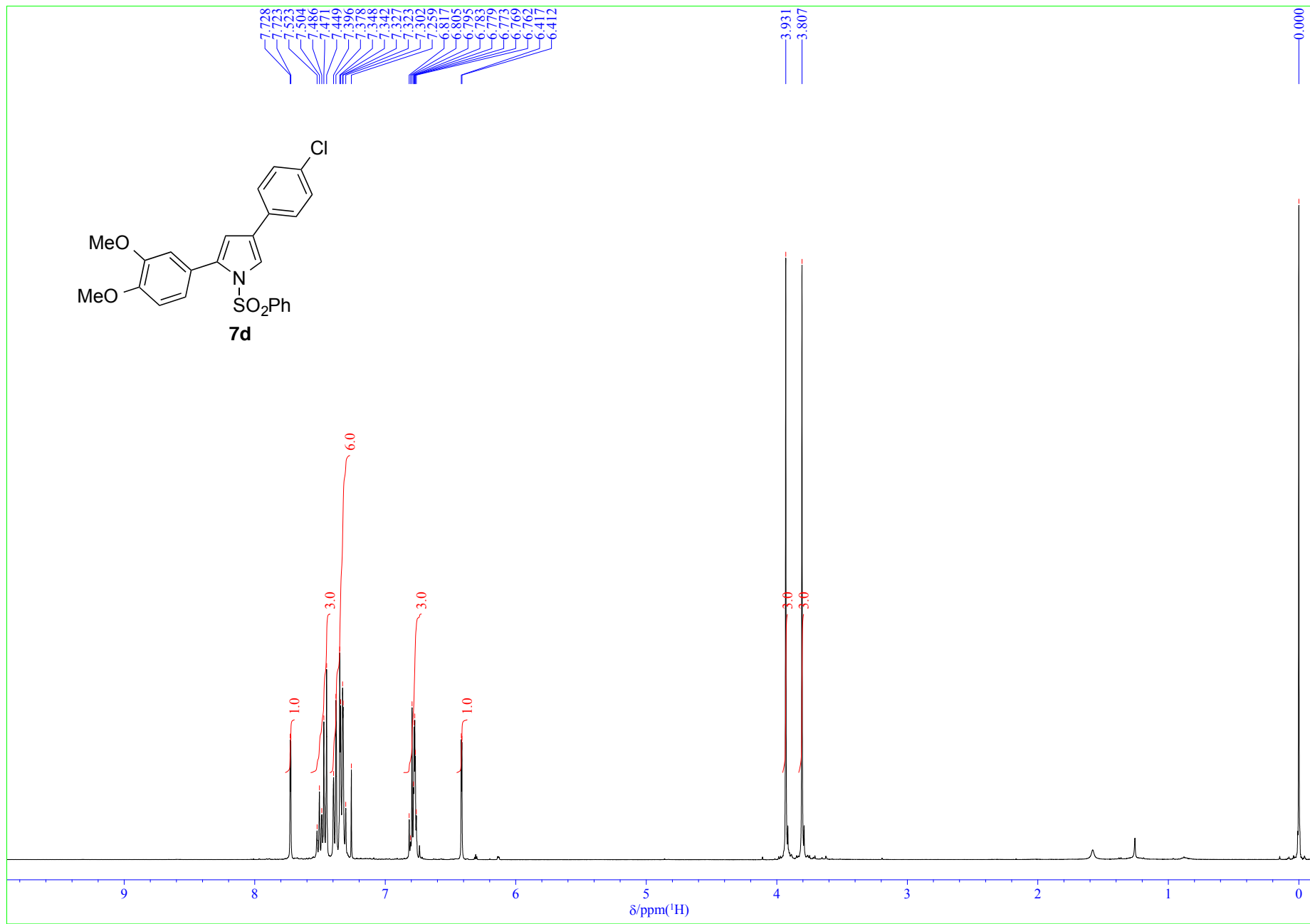


Figure S23. ^1H NMR spectrum of compound **7d** (400 MHz, CDCl_3).

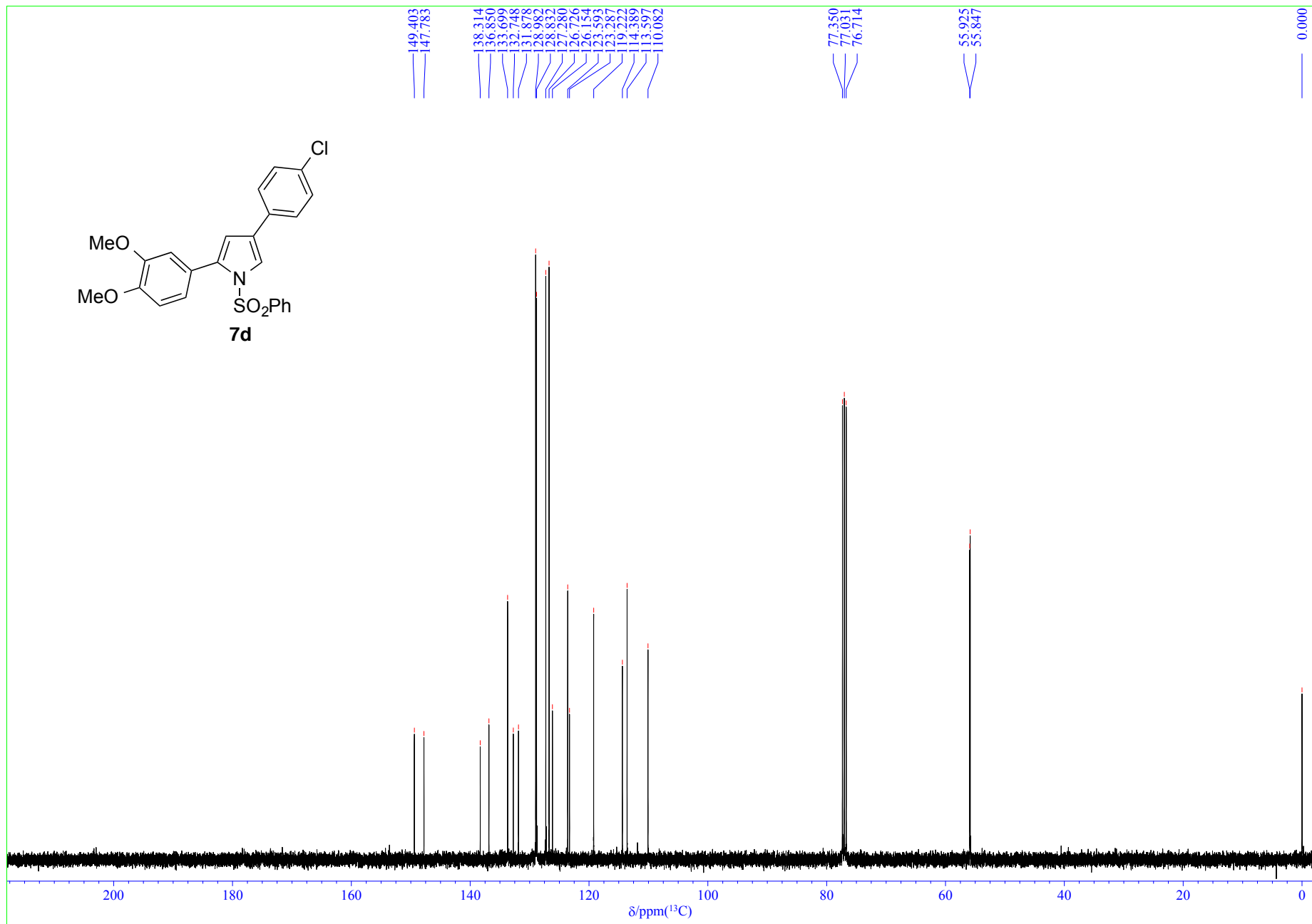


Figure S24. ^{13}C NMR spectrum of compound **7d** (100 MHz, CDCl_3).

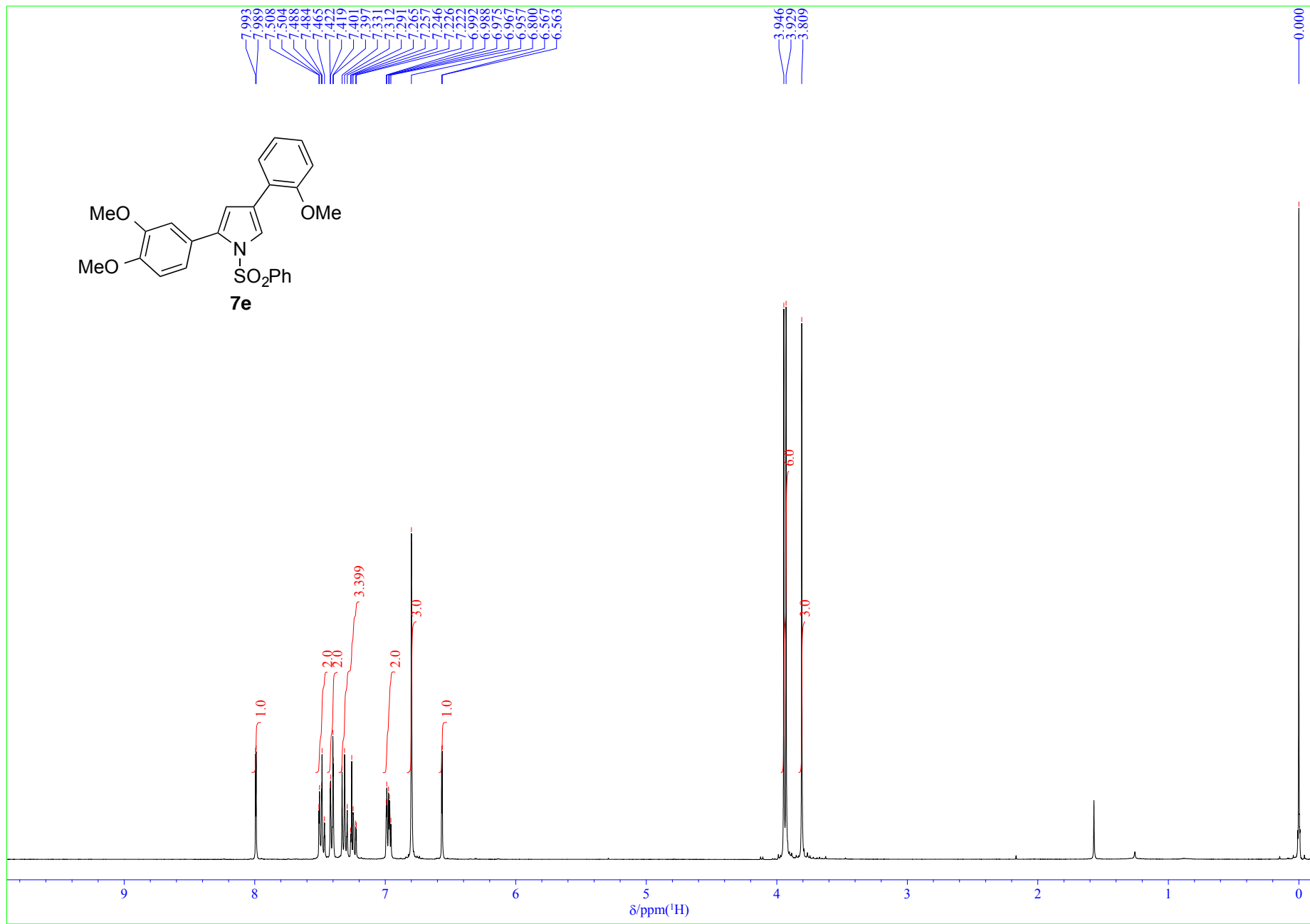


Figure S25. ^1H NMR spectrum of compound **7e** (400 MHz, CDCl_3).

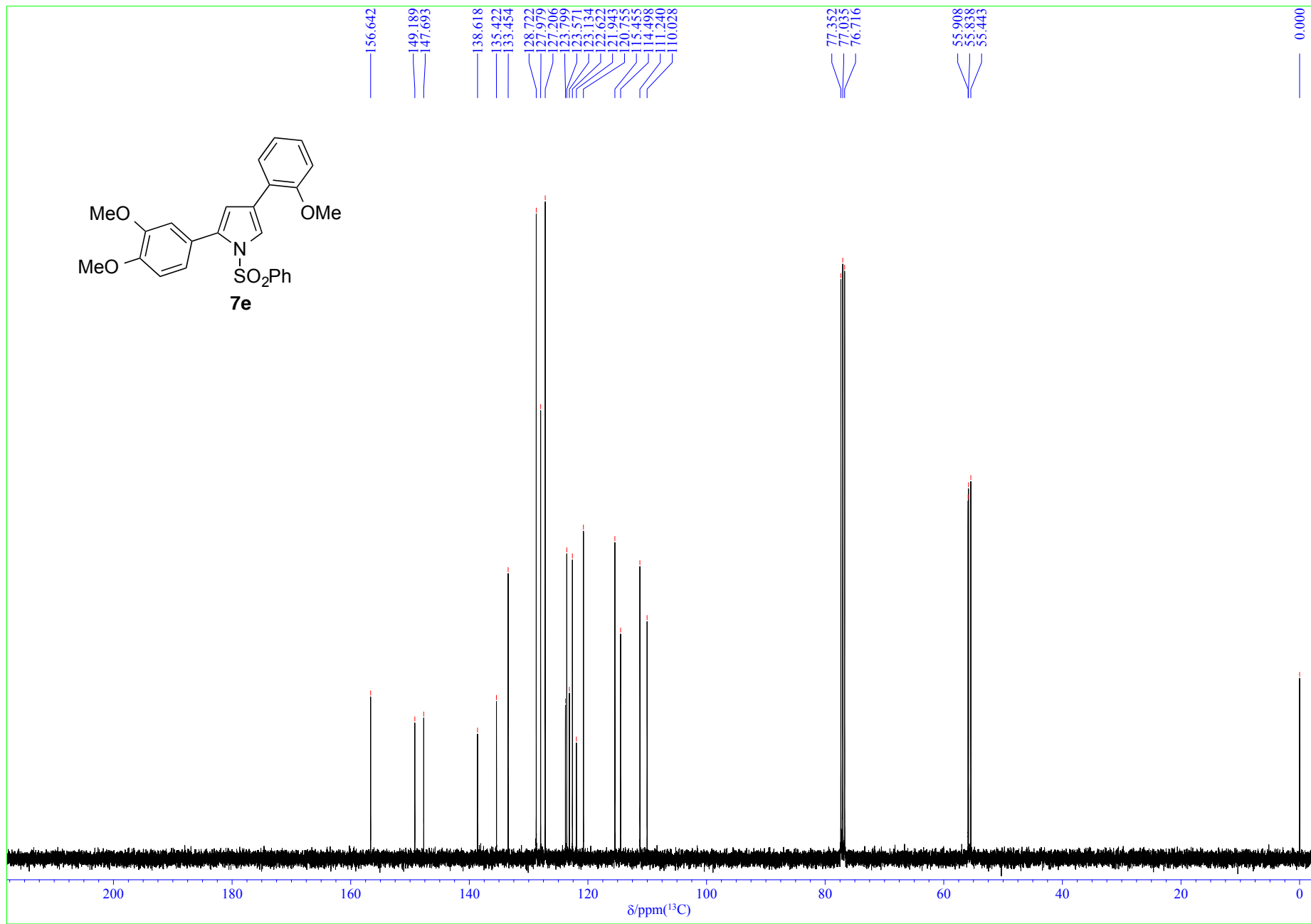


Figure S26. ^{13}C NMR spectrum of compound **7e** (100 MHz, CDCl_3).

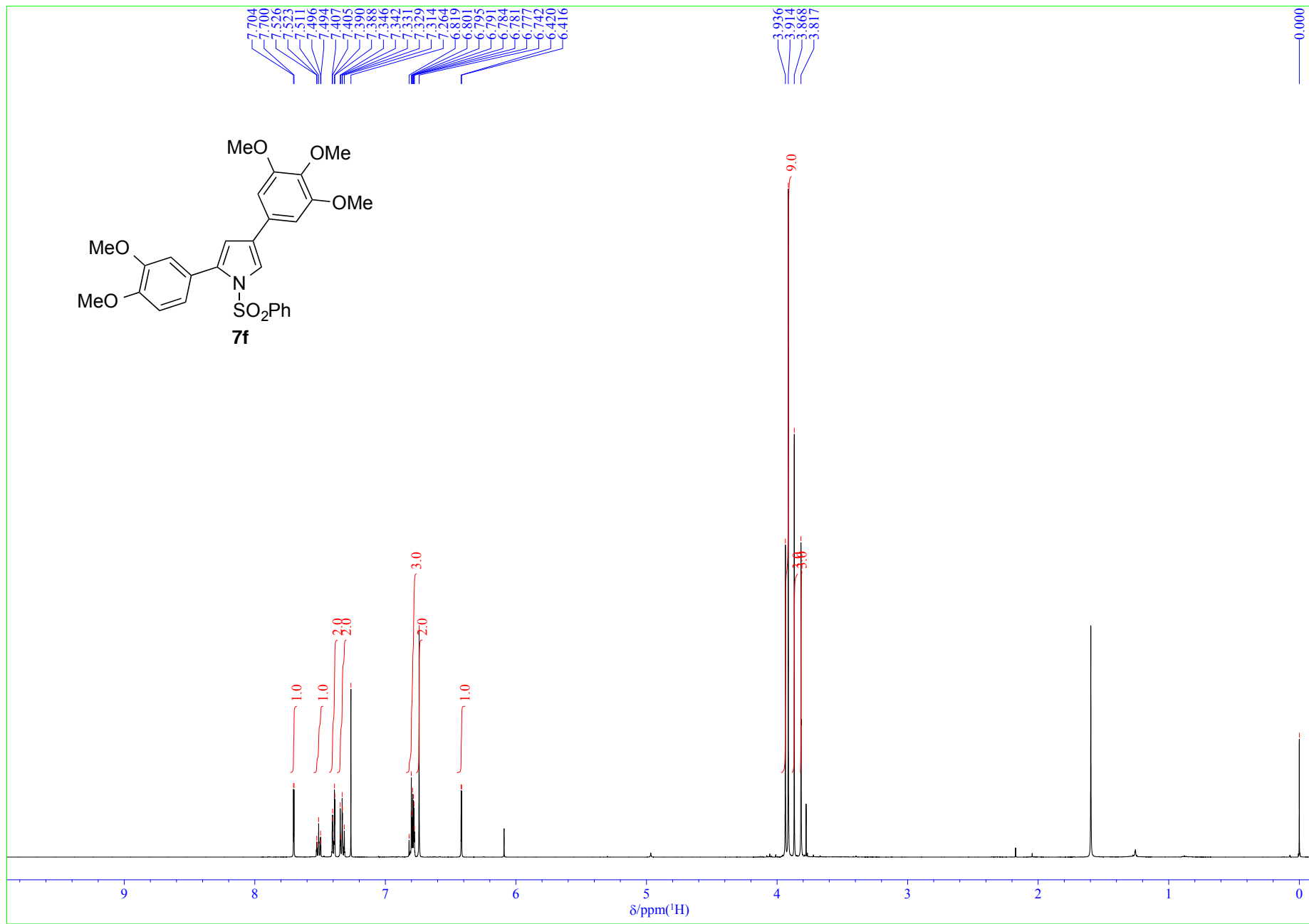


Figure S27. ^1H NMR spectrum of compound **7f** (500 MHz, CDCl_3).

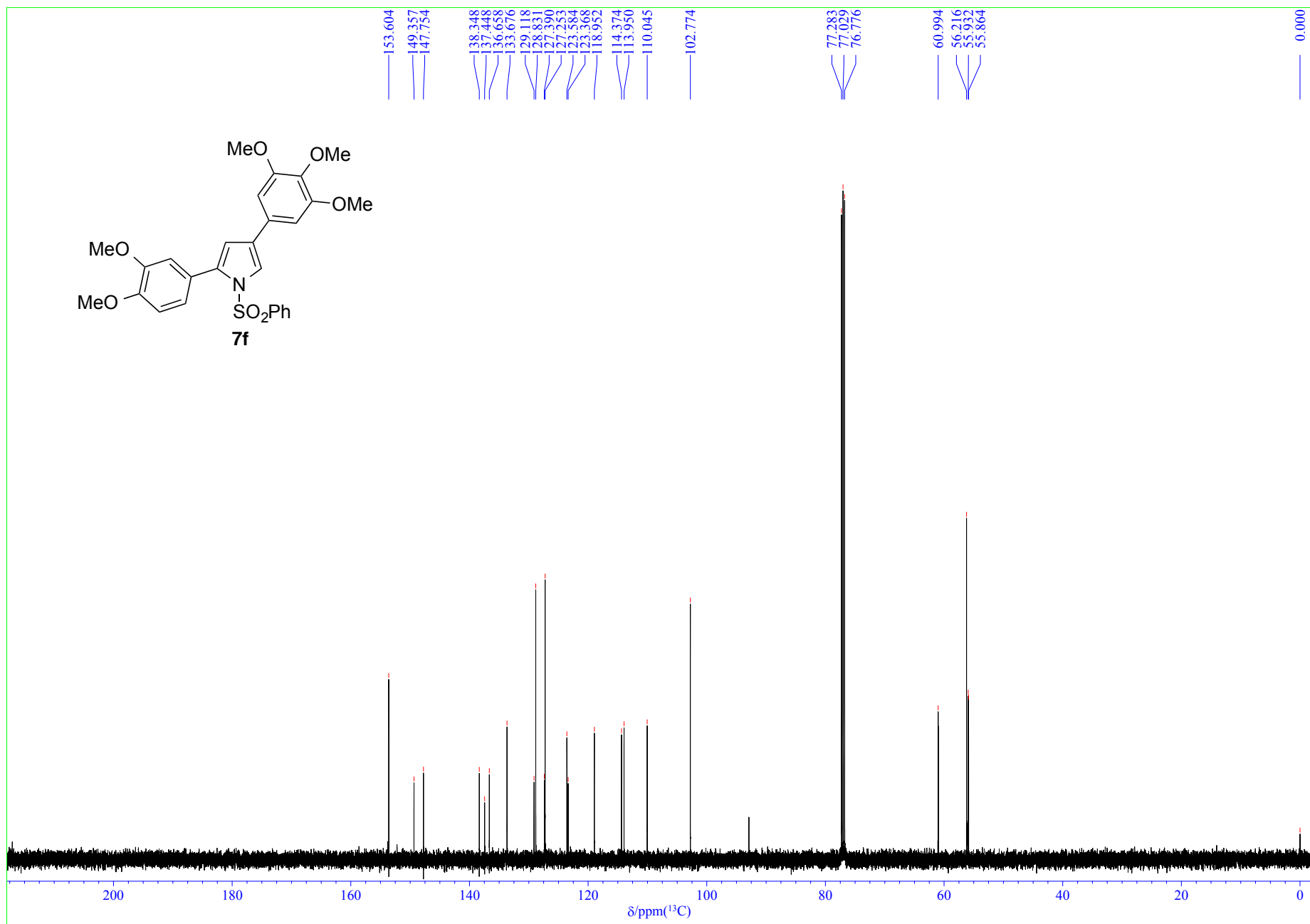


Figure S28. ^{13}C NMR spectrum of compound **7f** (125 MHz, CDCl_3).

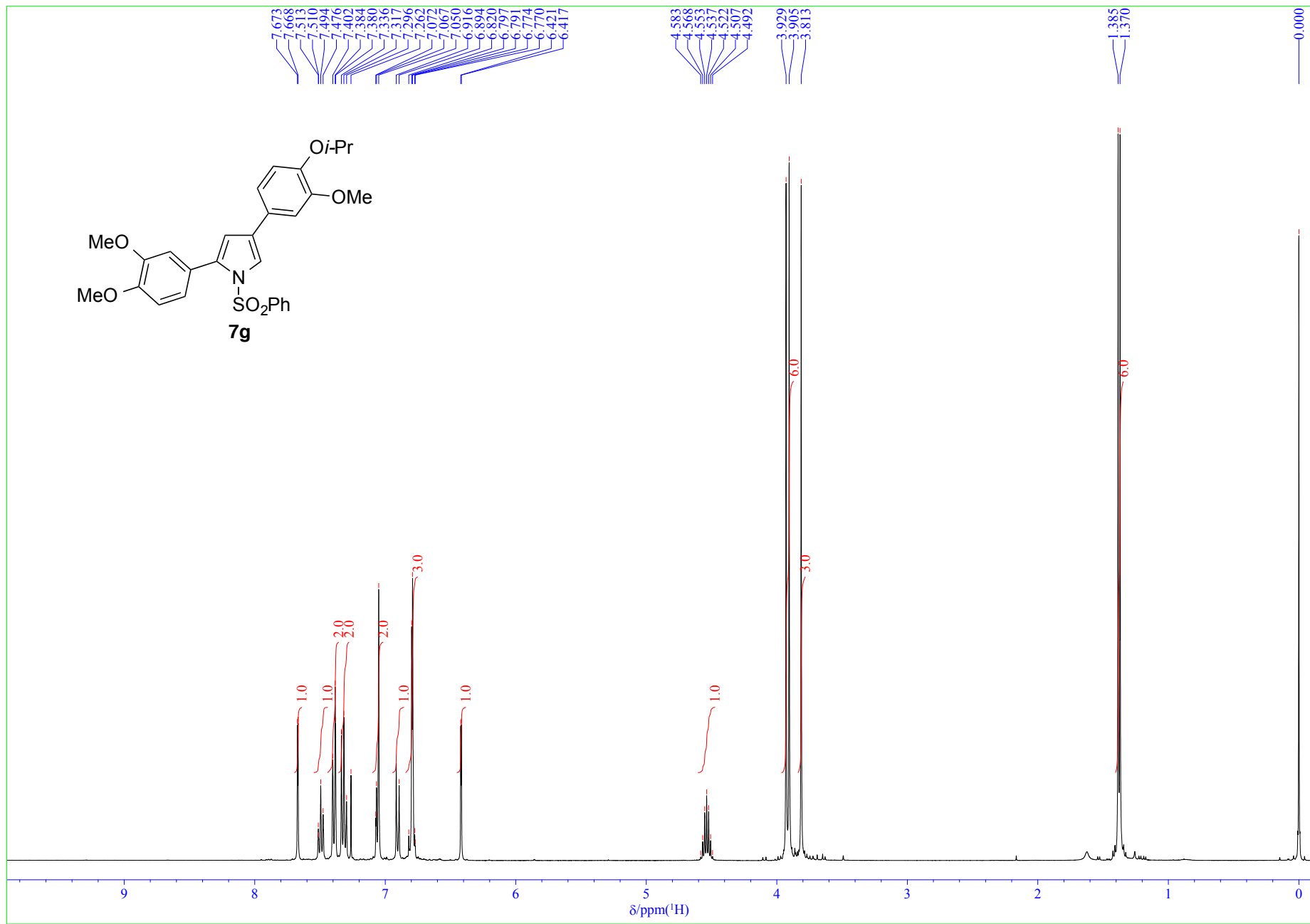


Figure S29. ¹H NMR spectrum of compound **7g** (400 MHz, CDCl₃).

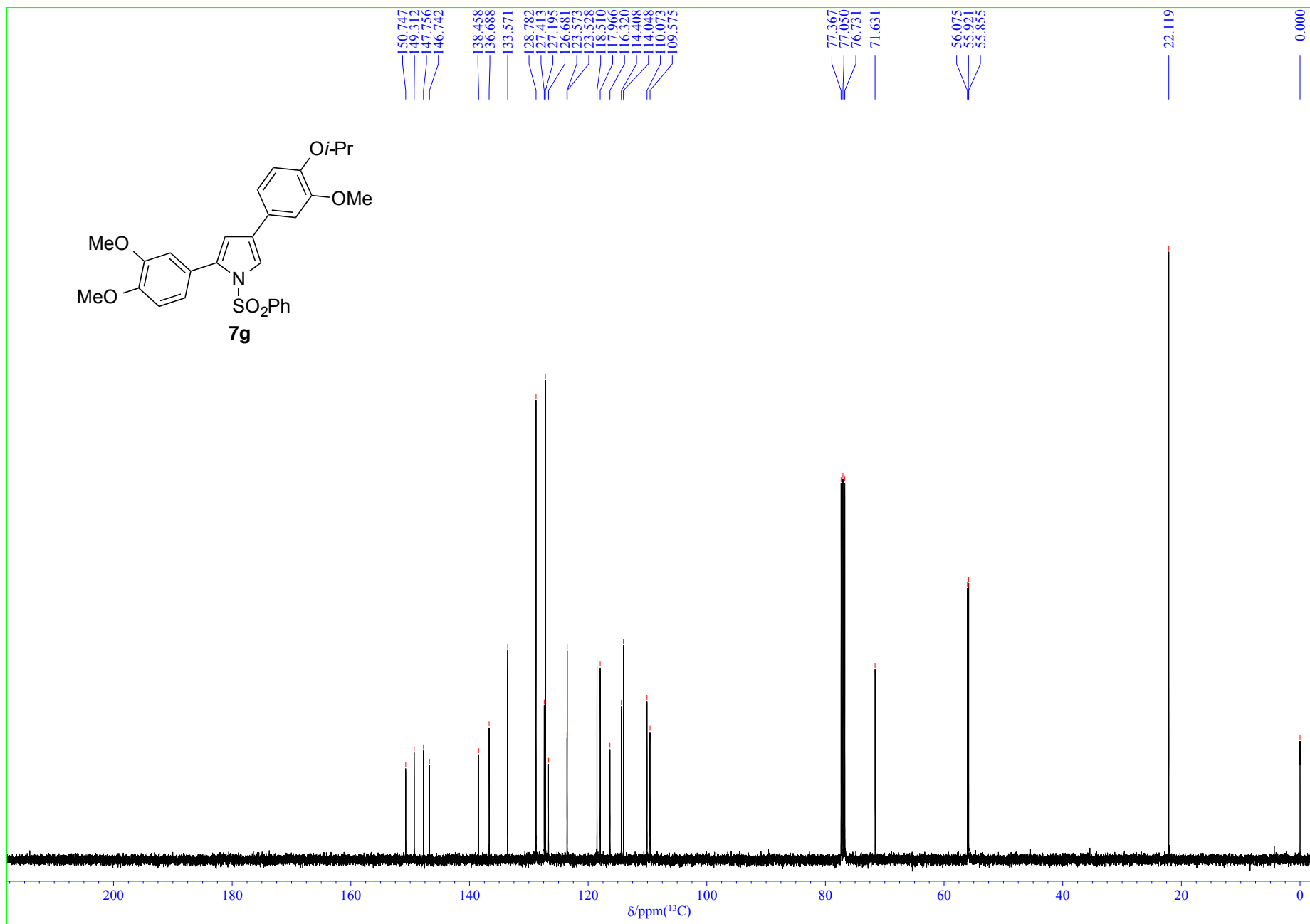


Figure S30. ^{13}C NMR spectrum of compound **7g** (100 MHz, CDCl_3).

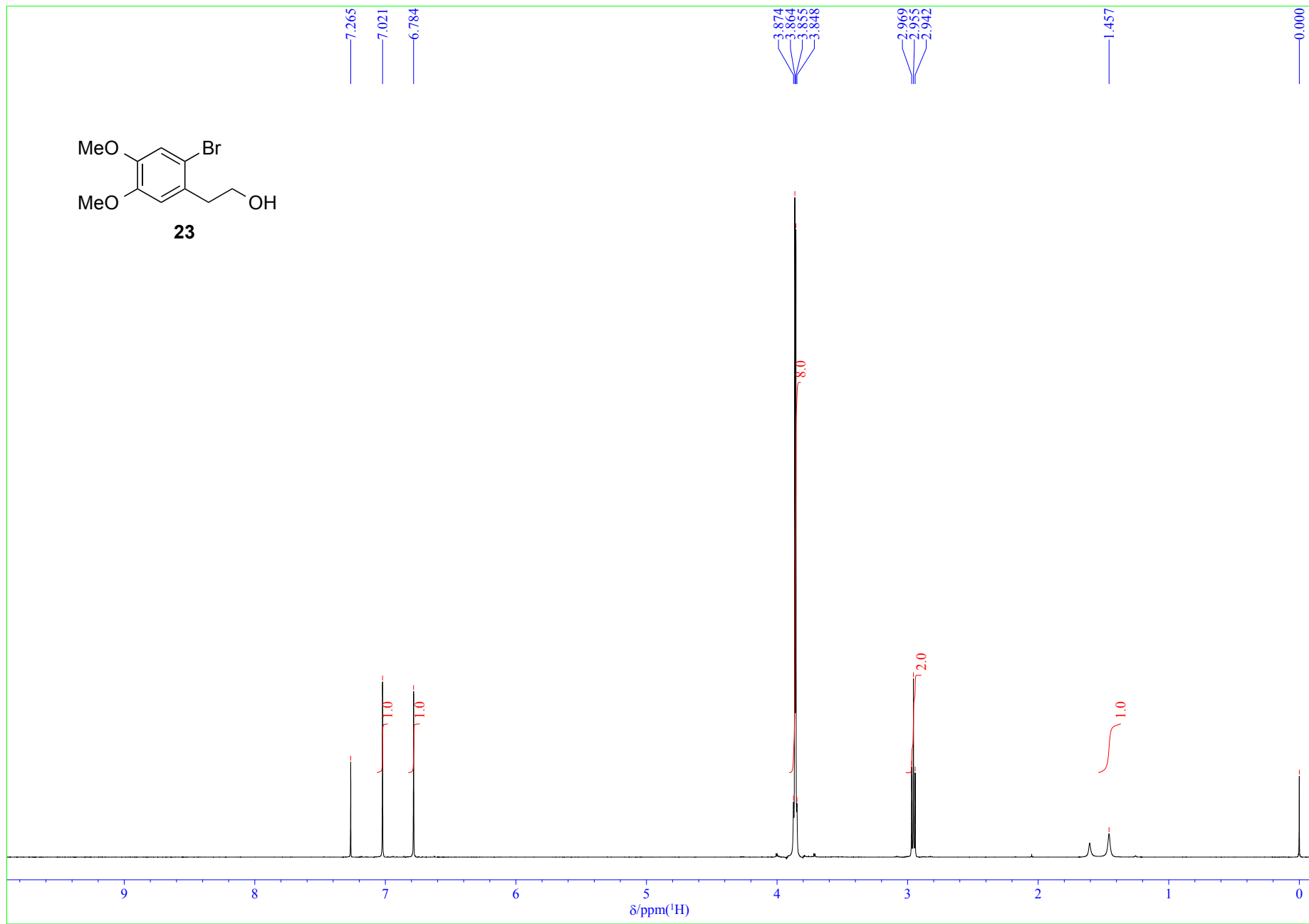


Figure S31. ^1H NMR spectrum of compound **23** (500 MHz, CDCl_3).

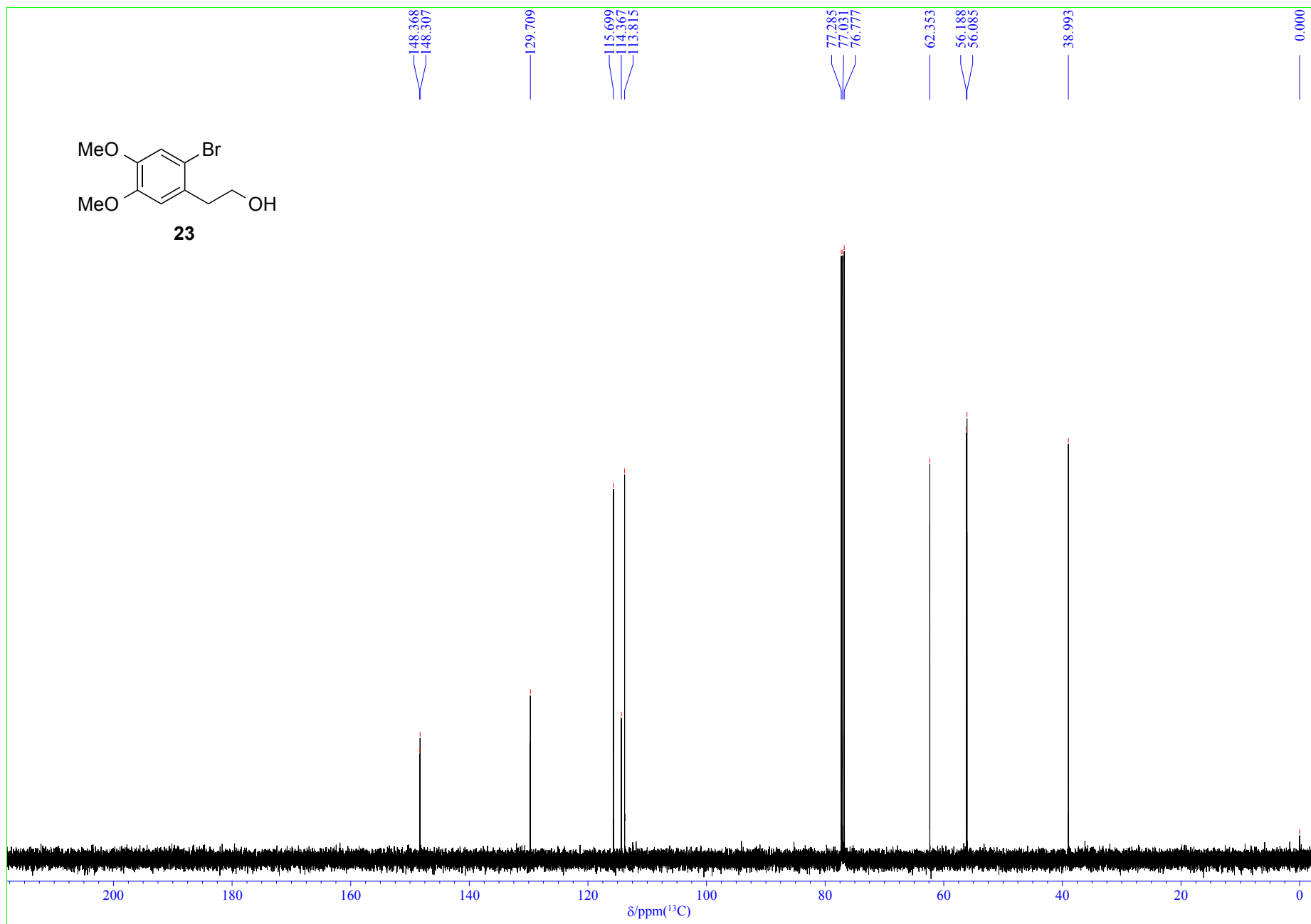


Figure S32. ¹³C NMR spectrum of compound **23** (125 MHz, CDCl₃).

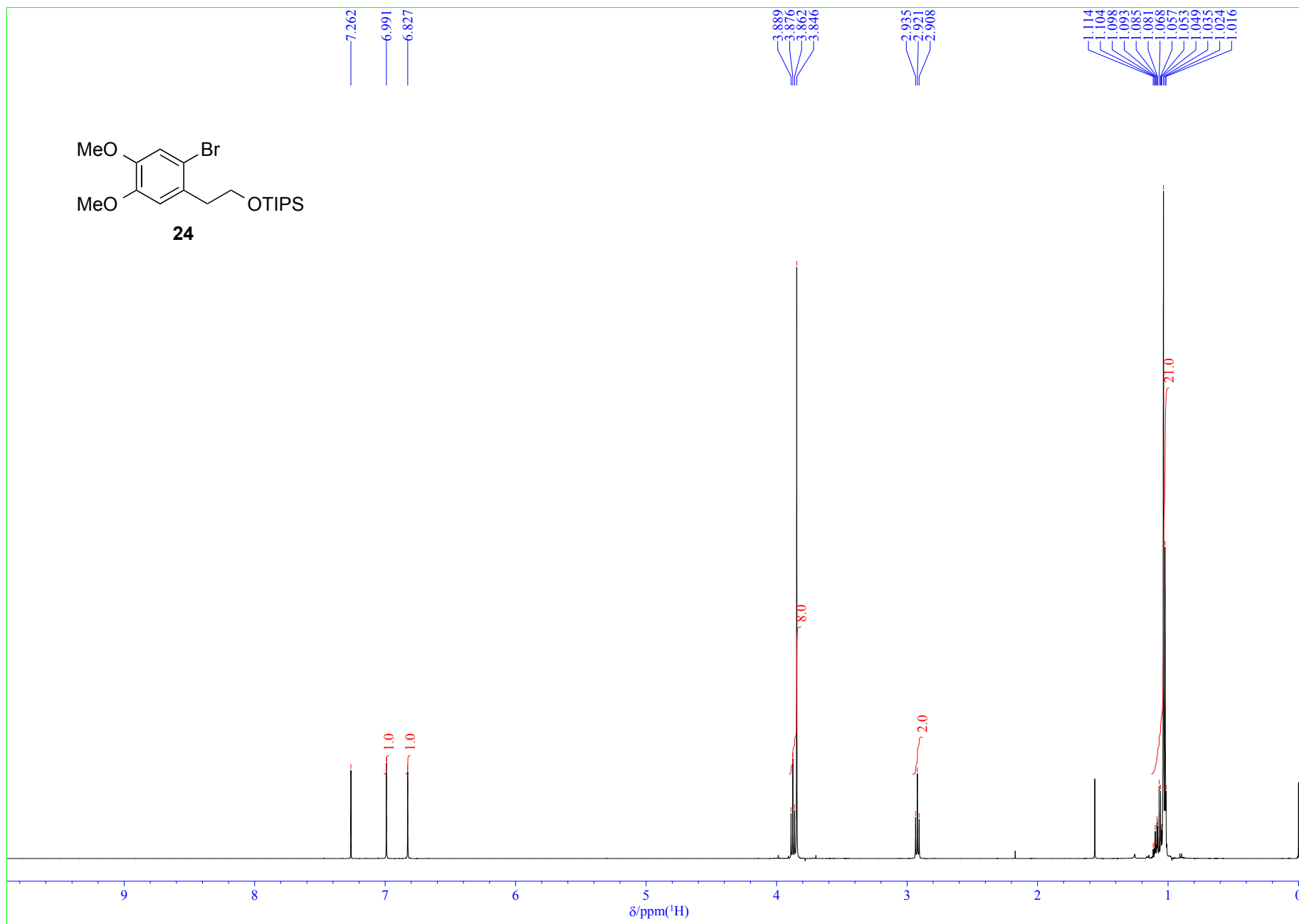


Figure S33. ^1H NMR spectrum of compound **24** (500 MHz, CDCl_3).

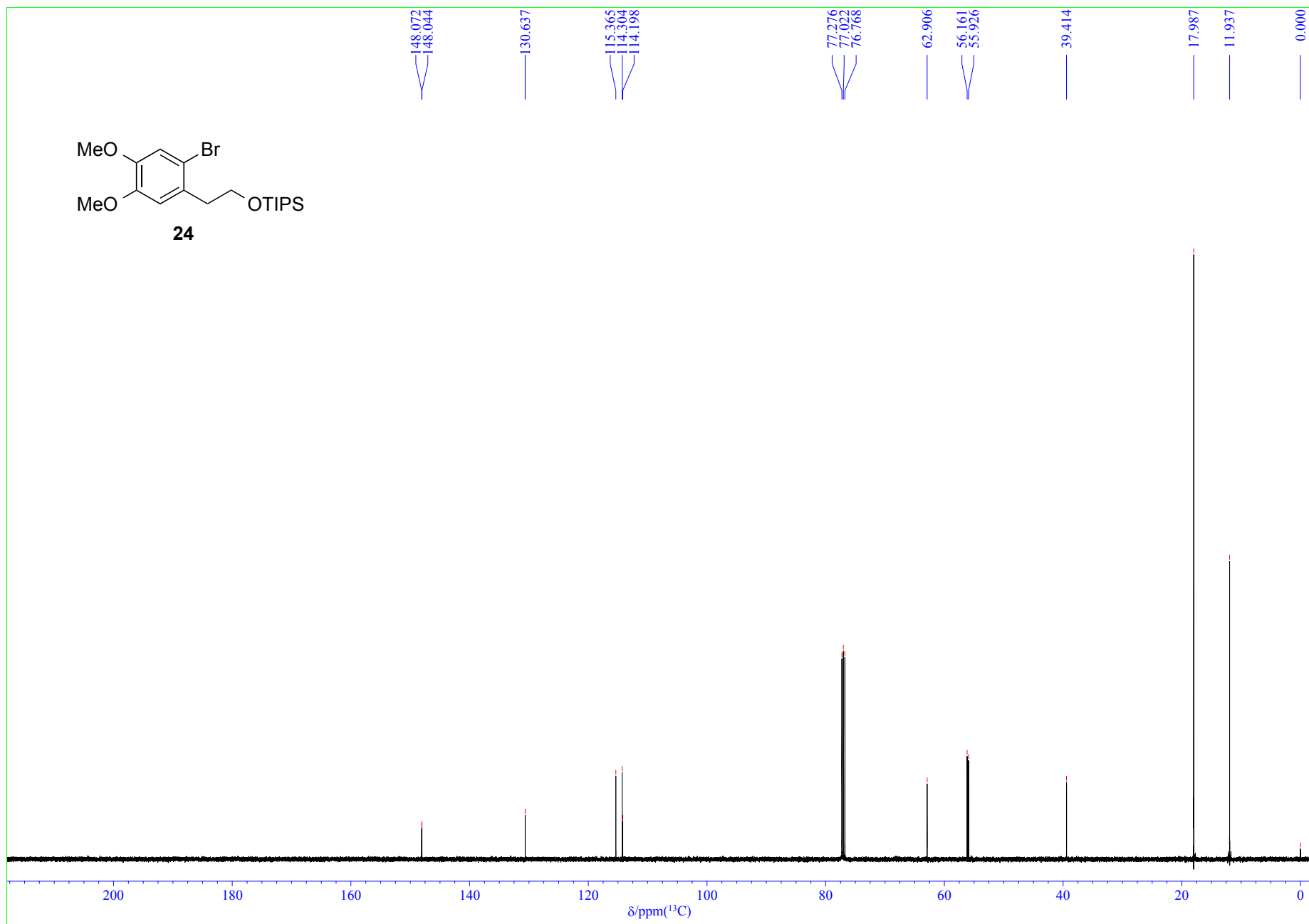


Figure S34. ^{13}C NMR spectrum of compound **24** (125 MHz, CDCl_3).

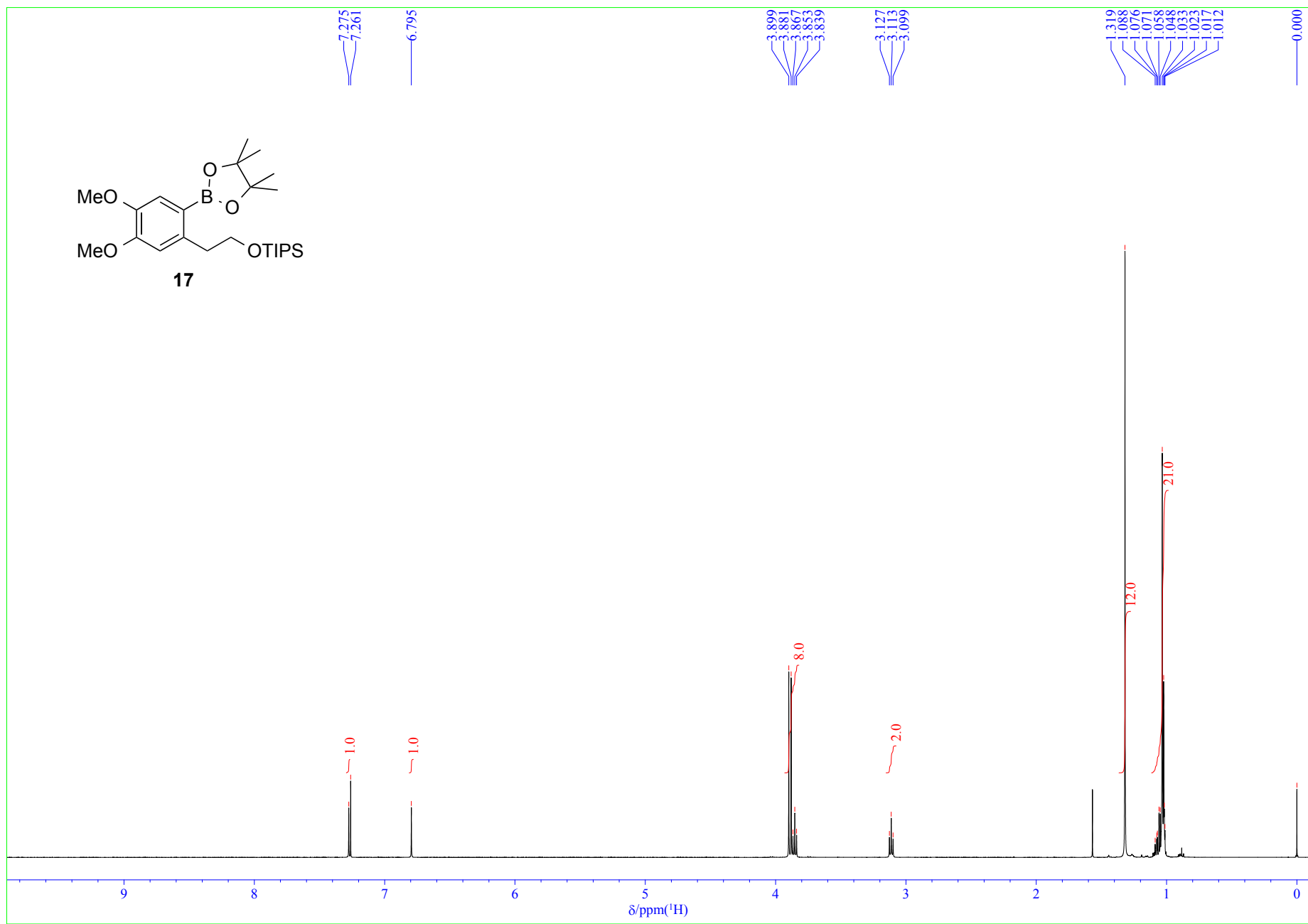


Figure S35. ^1H NMR spectrum of compound **17** (500 MHz, CDCl_3).

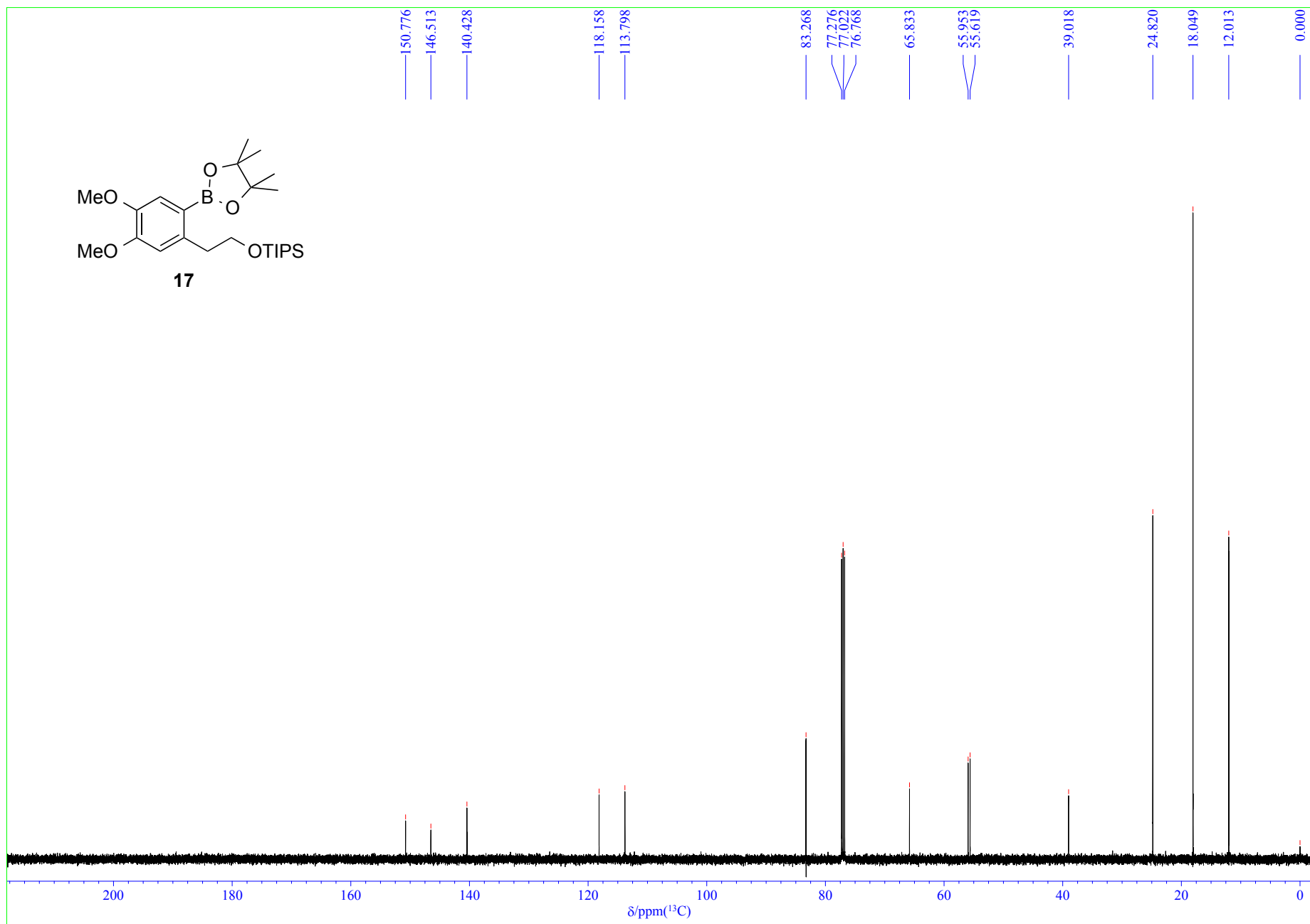


Figure S36. ¹³C NMR spectrum of compound **17** (125 MHz, CDCl₃).

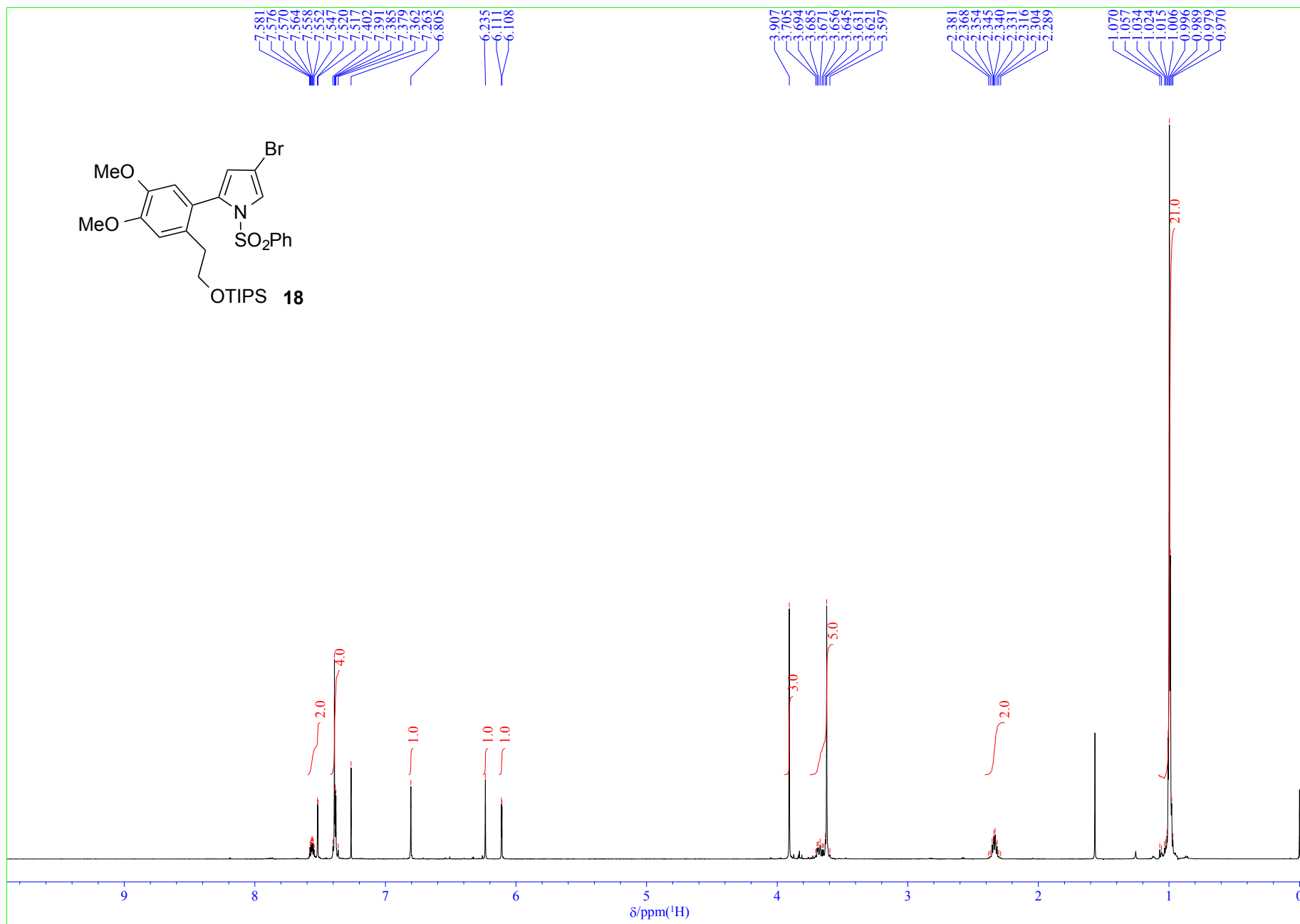


Figure S37. ^1H NMR spectrum of compound **18** (500 MHz, CDCl_3).

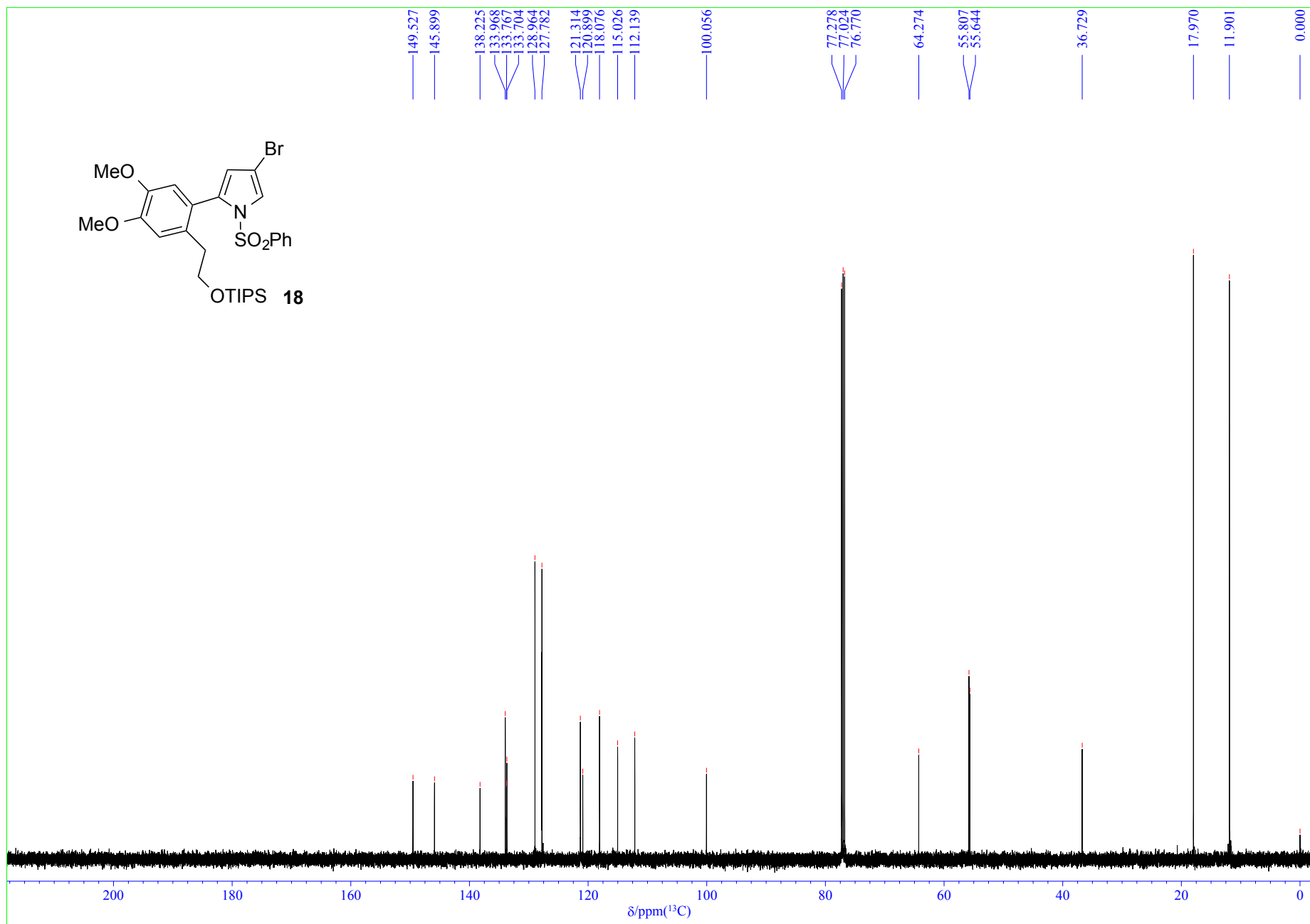


Figure S38. ¹³C NMR spectrum of compound **18** (125 MHz, CDCl₃).

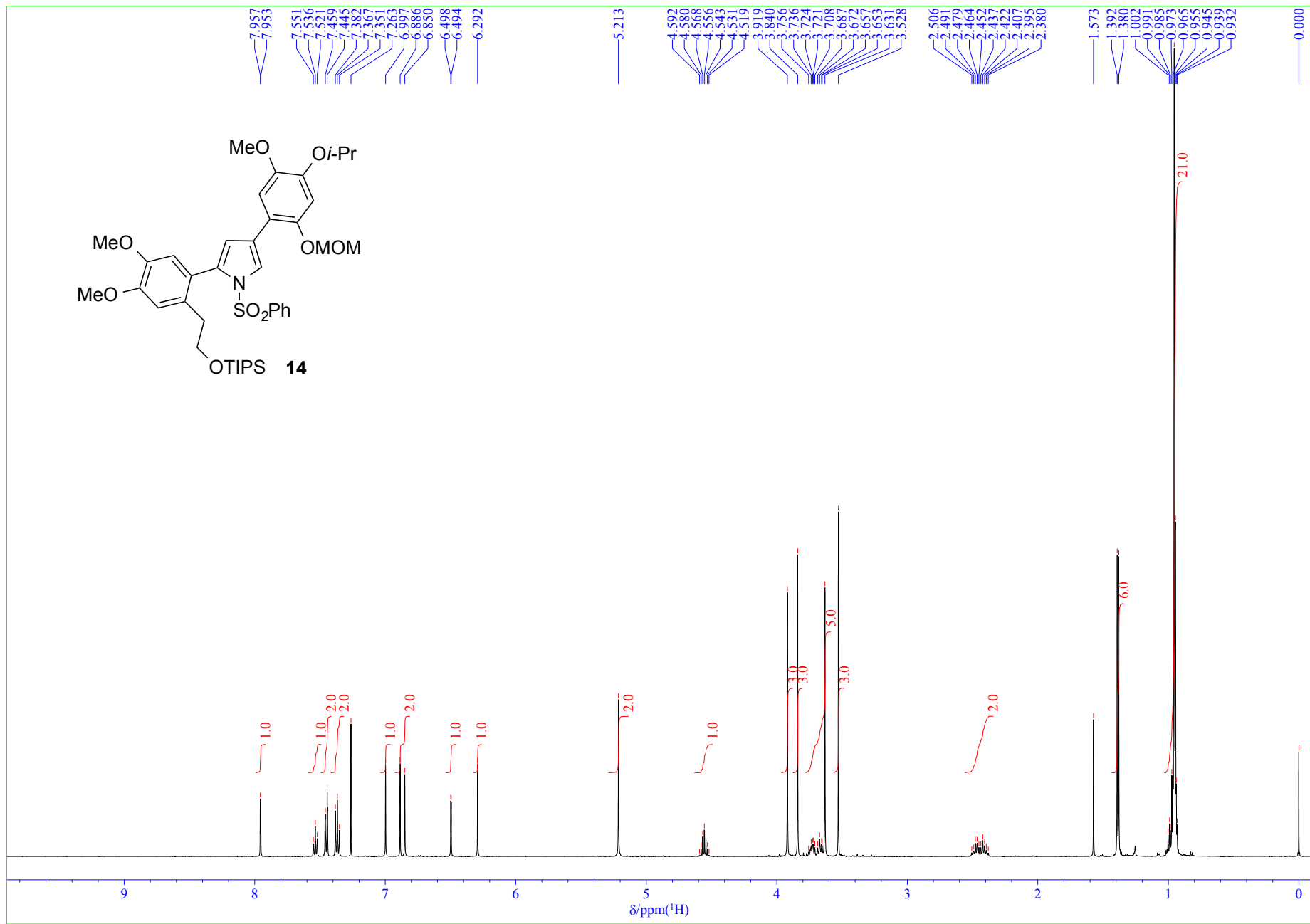


Figure S39. ^1H NMR spectrum of compound **14** (500 MHz, CDCl_3).

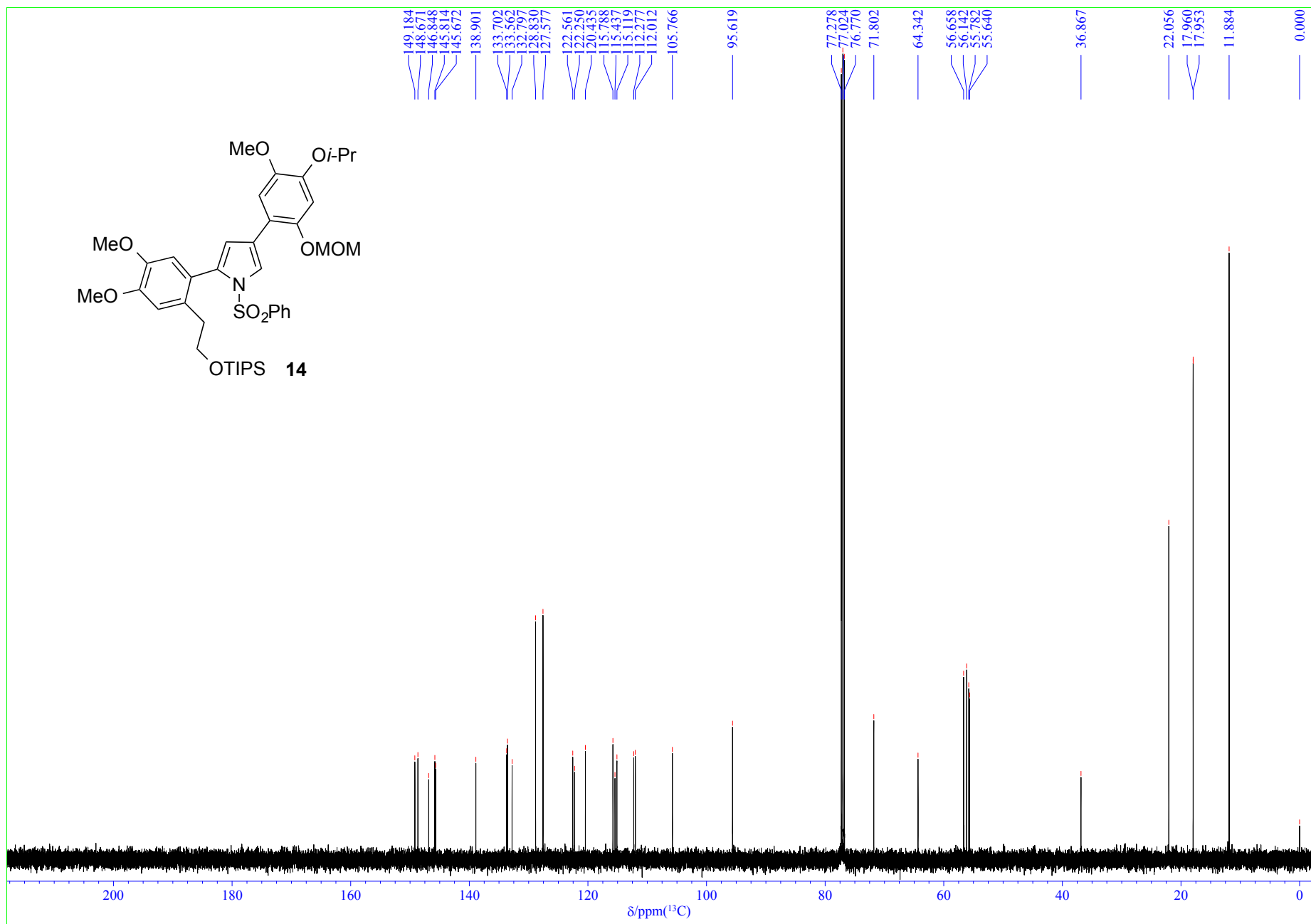


Figure S40. ^{13}C NMR spectrum of compound **14** (125 MHz, CDCl_3).

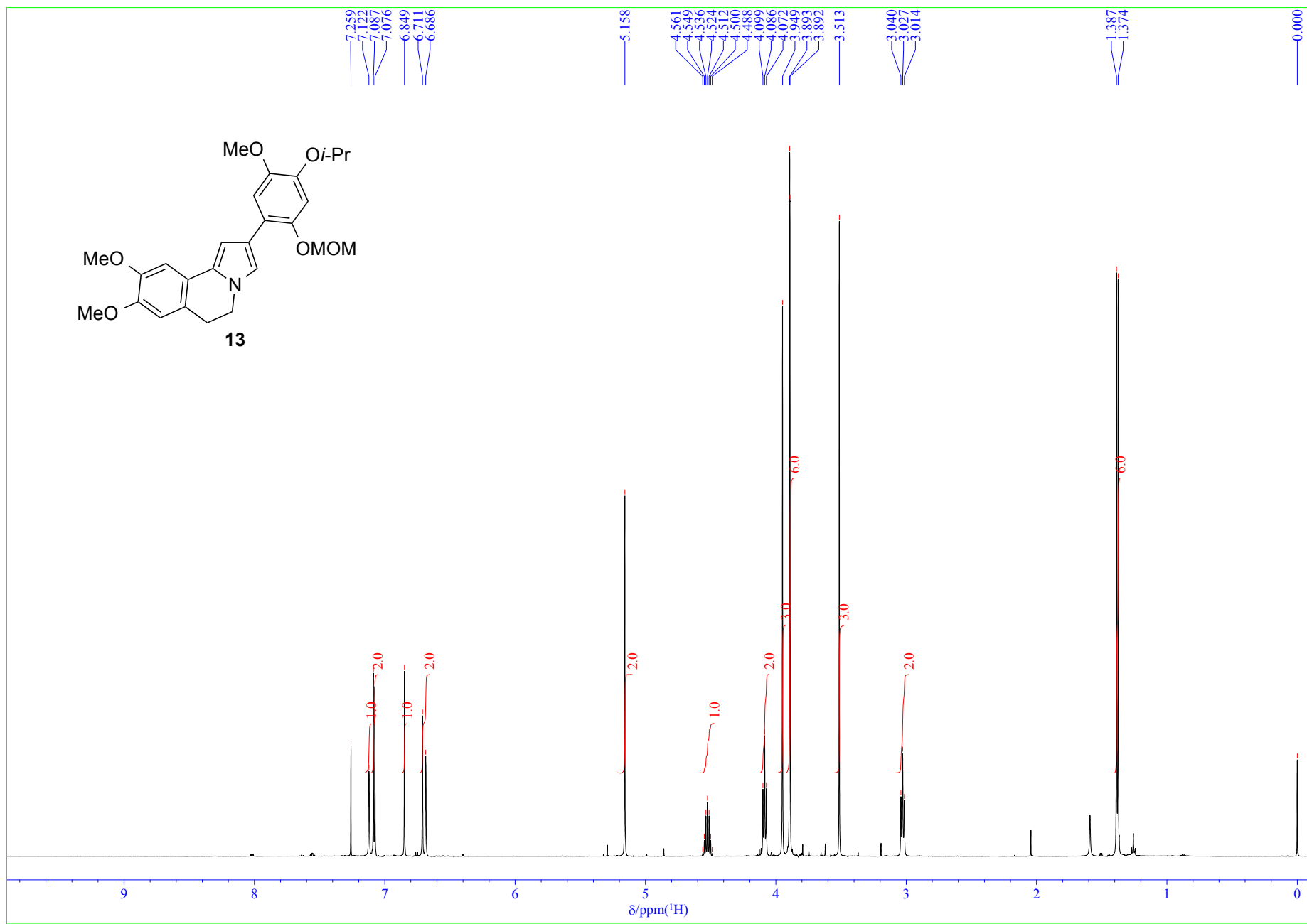


Figure S41. ¹H NMR spectrum of compound **13** (500 MHz, CDCl₃).

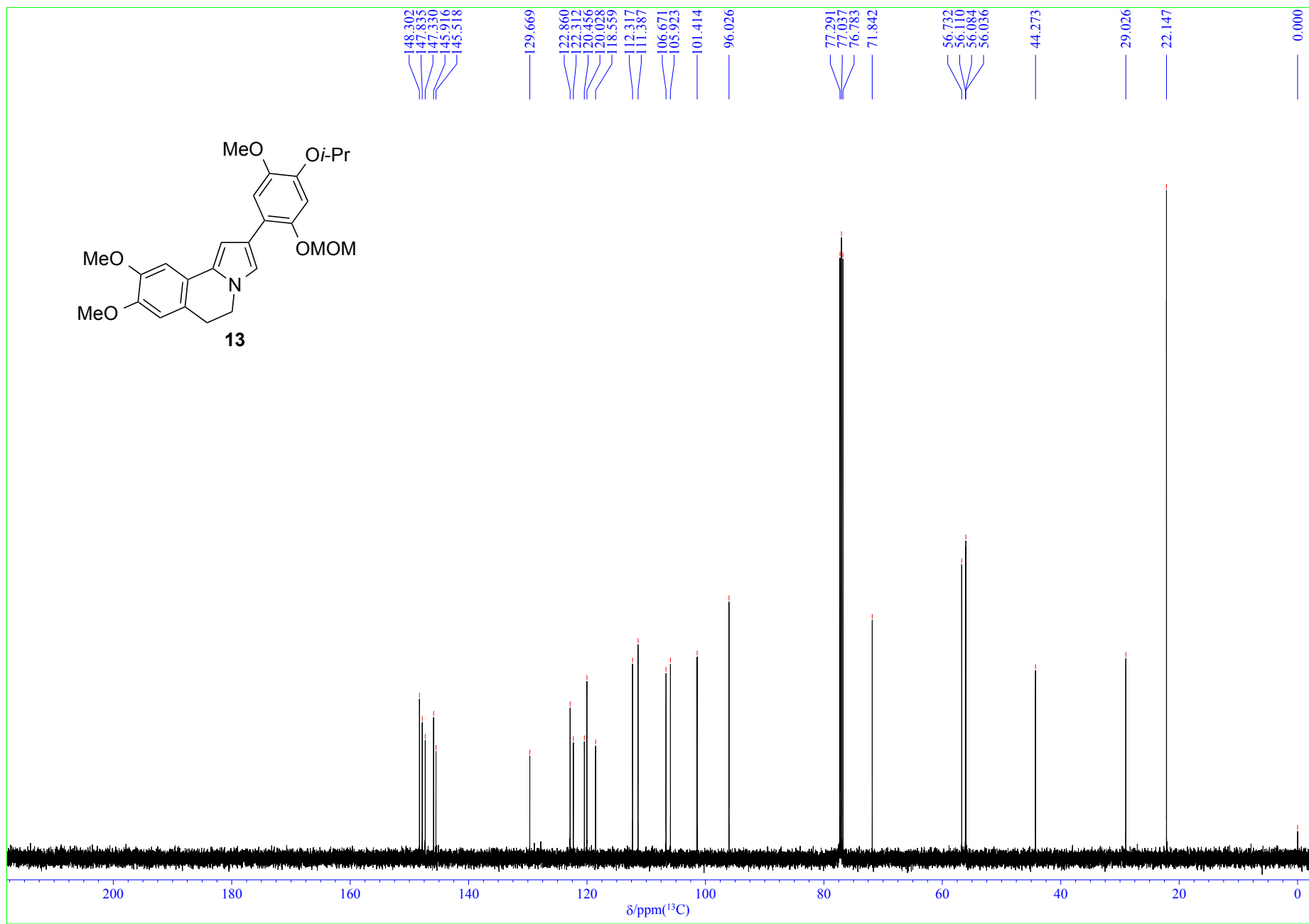


Figure S42. ^{13}C NMR spectrum of compound **13** (125 MHz, CDCl_3).

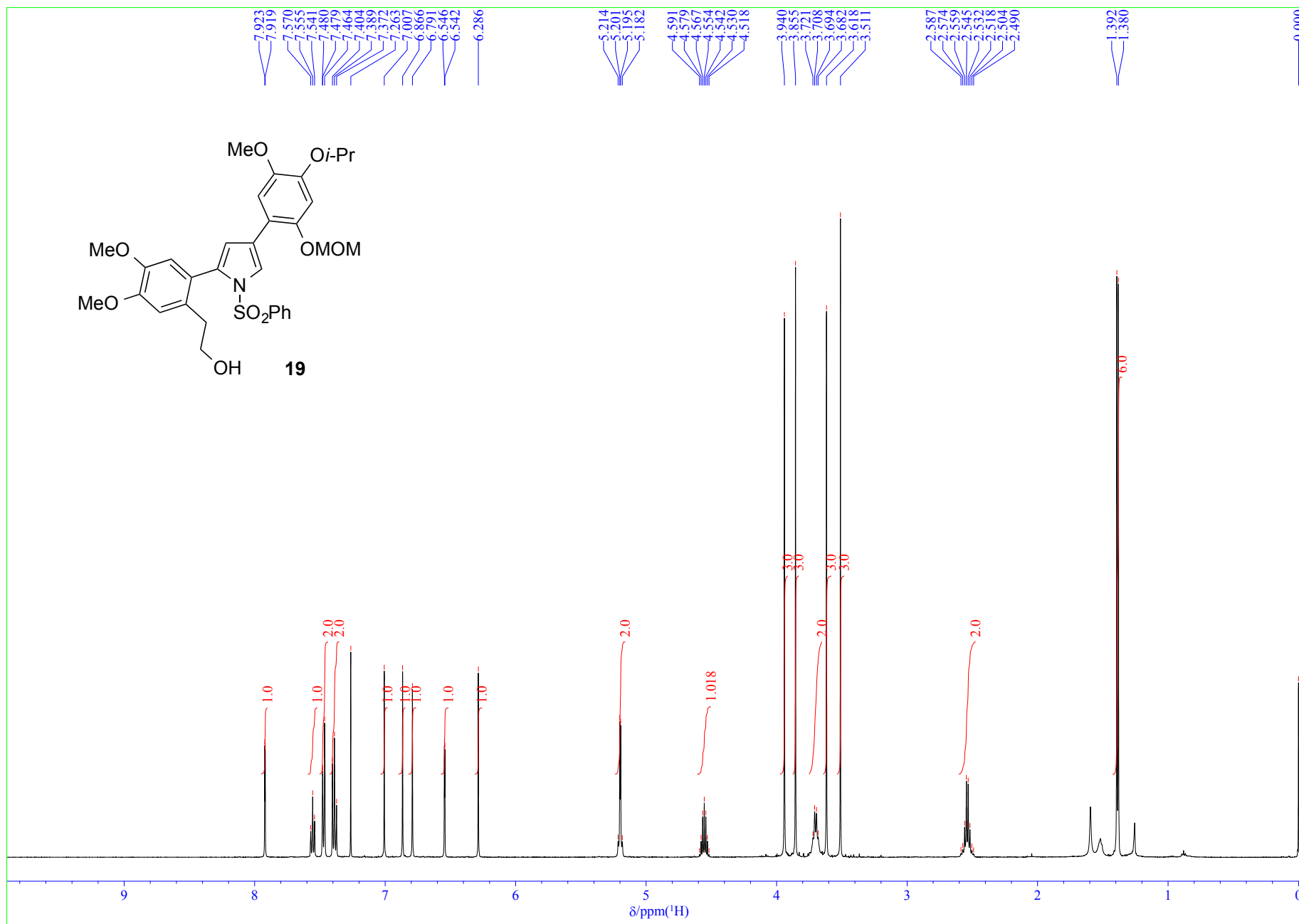


Figure S43. ¹H NMR spectrum of compound **19** (500 MHz, CDCl₃).

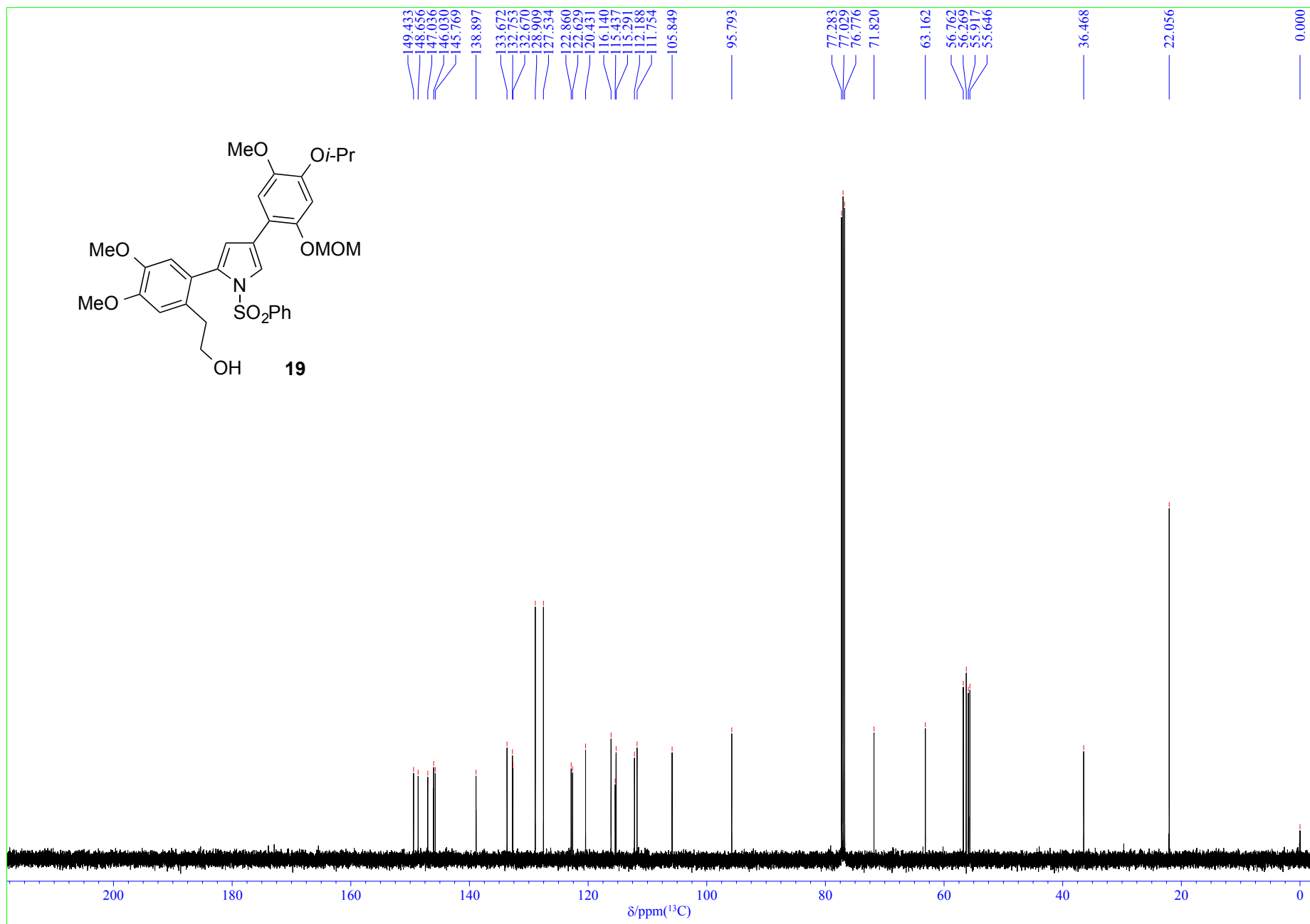


Figure S44. ^{13}C NMR spectrum of compound **19** (125 MHz, CDCl_3).

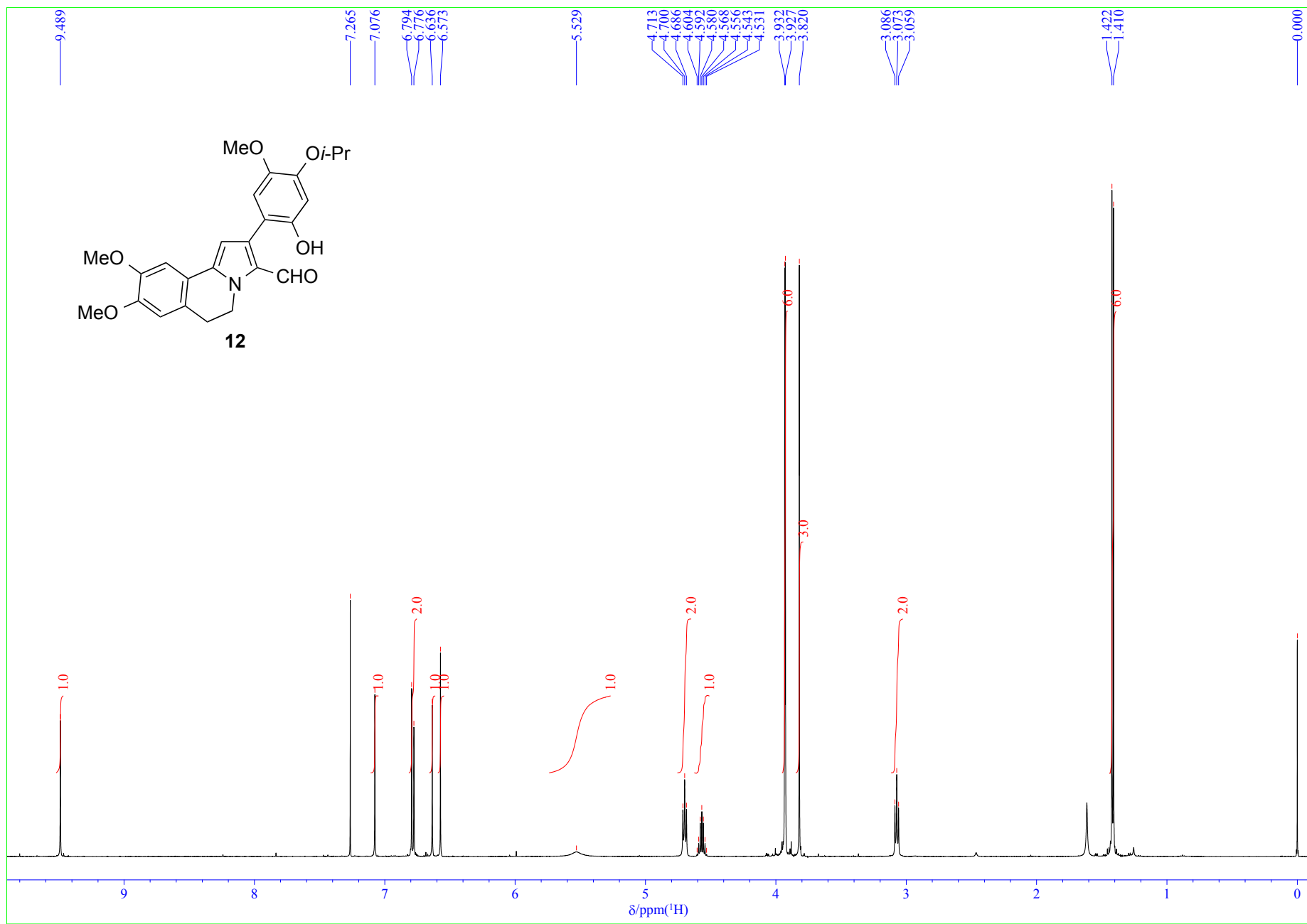


Figure S45. ¹H NMR spectrum of compound **12** (500 MHz, CDCl₃).

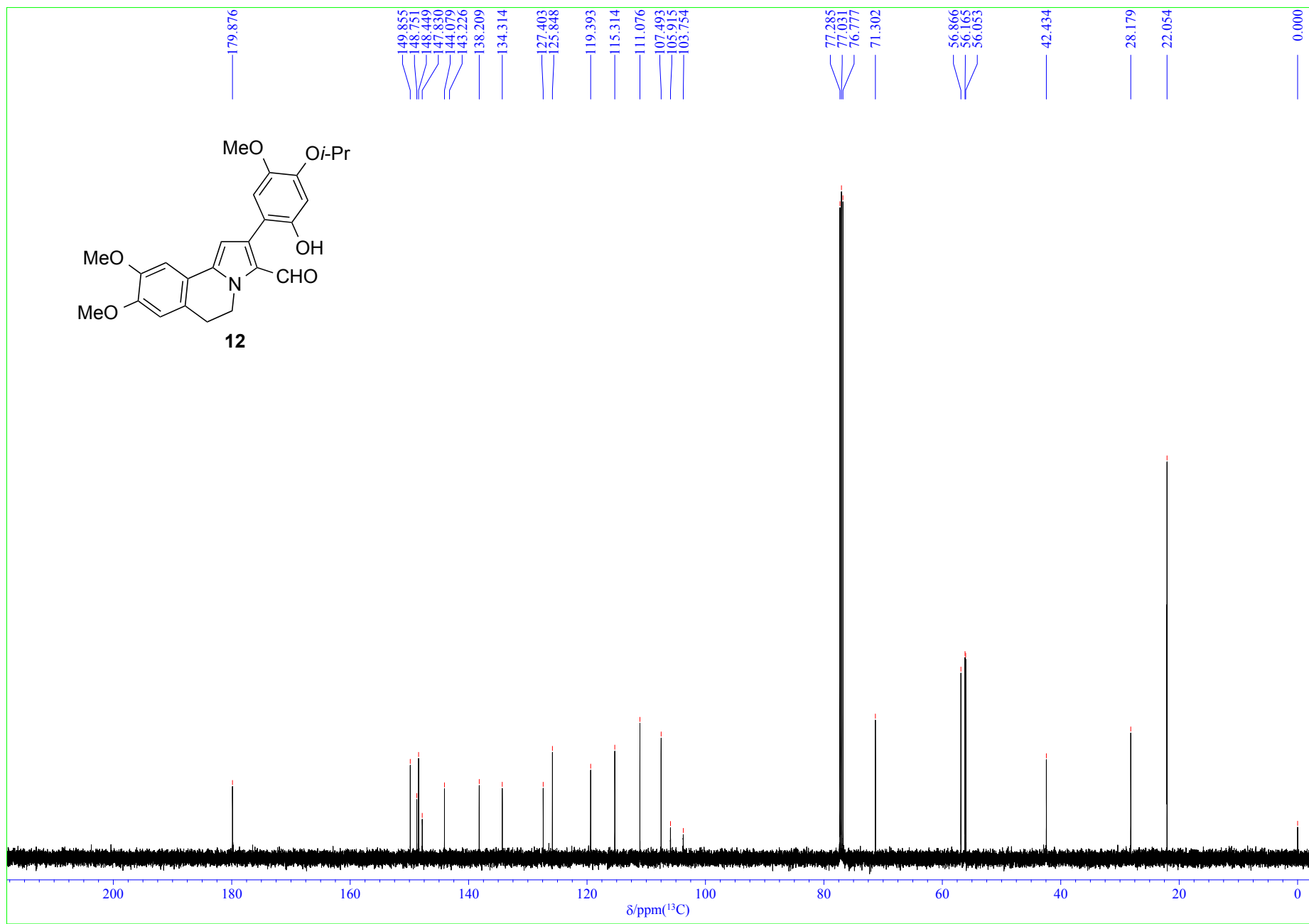


Figure S46. ^{13}C NMR spectrum of compound **12** (125 MHz, CDCl_3).

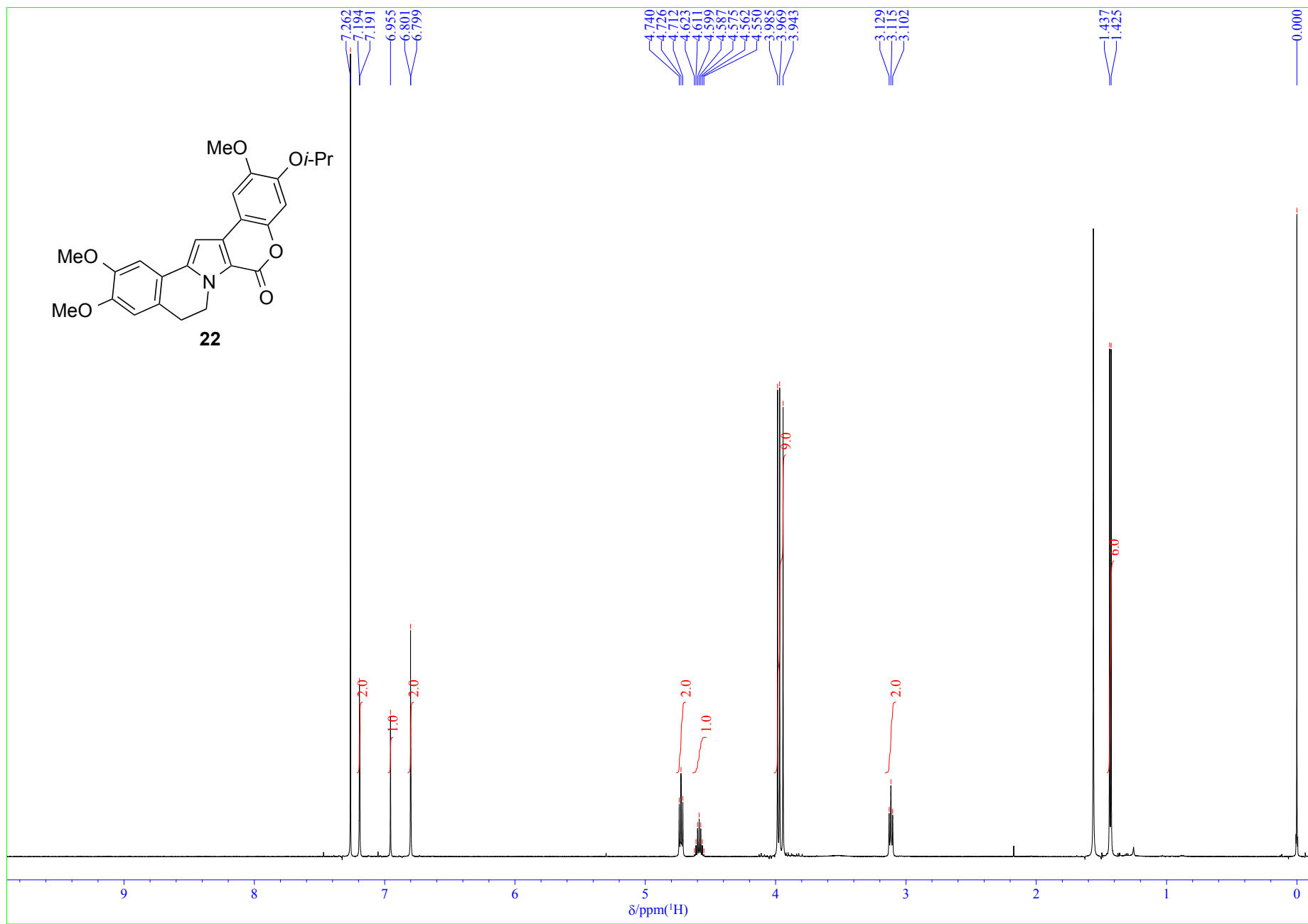


Figure S47. ^1H NMR spectrum of compound **22** (500 MHz, CDCl_3).

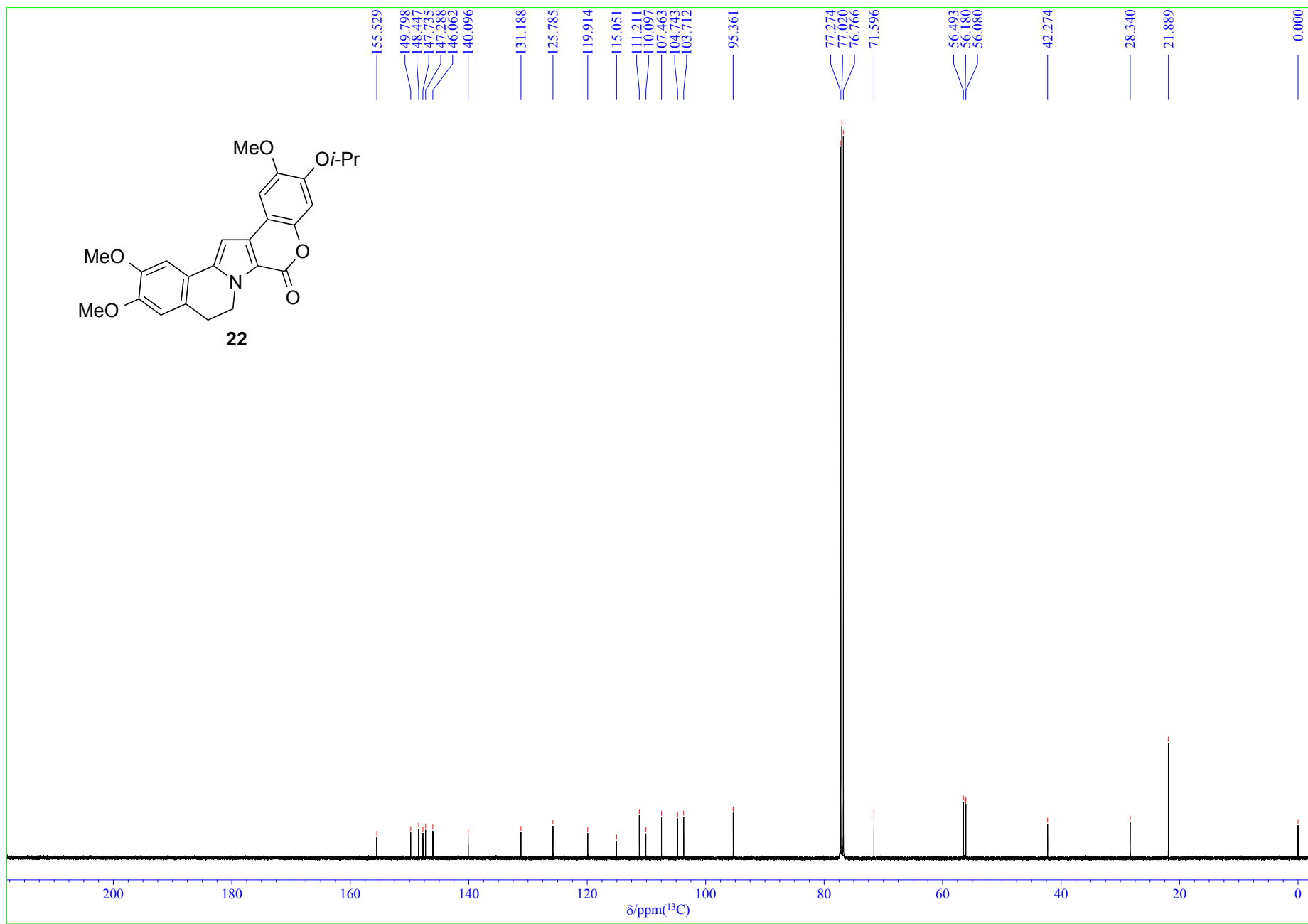


Figure S48. ^{13}C NMR spectrum of compound **22** (125 MHz, CDCl_3).

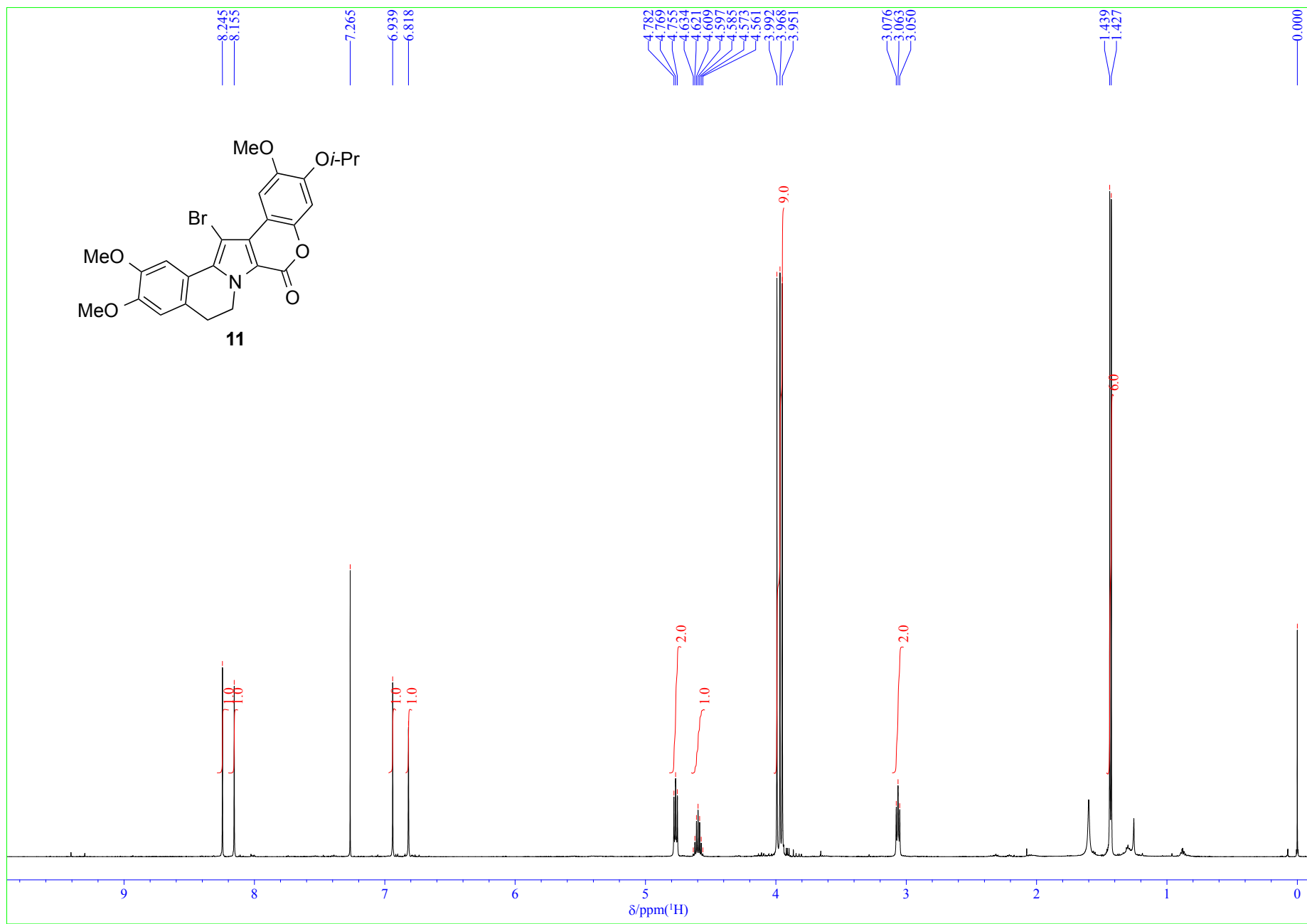


Figure S49. ^1H NMR spectrum of compound **11** (500 MHz, CDCl_3).

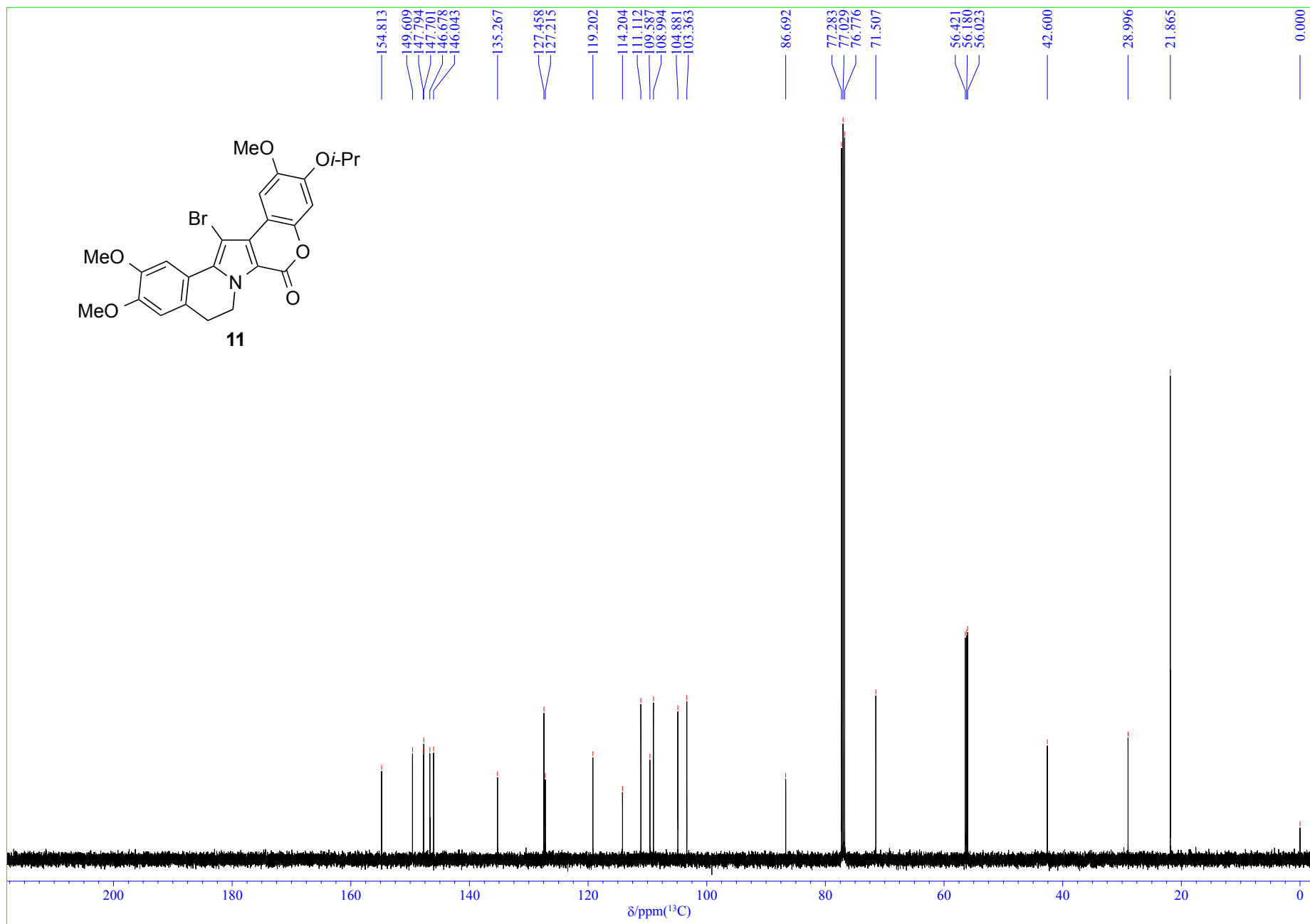


Figure S50. ^{13}C NMR spectrum of compound **11** (125 MHz, CDCl_3).

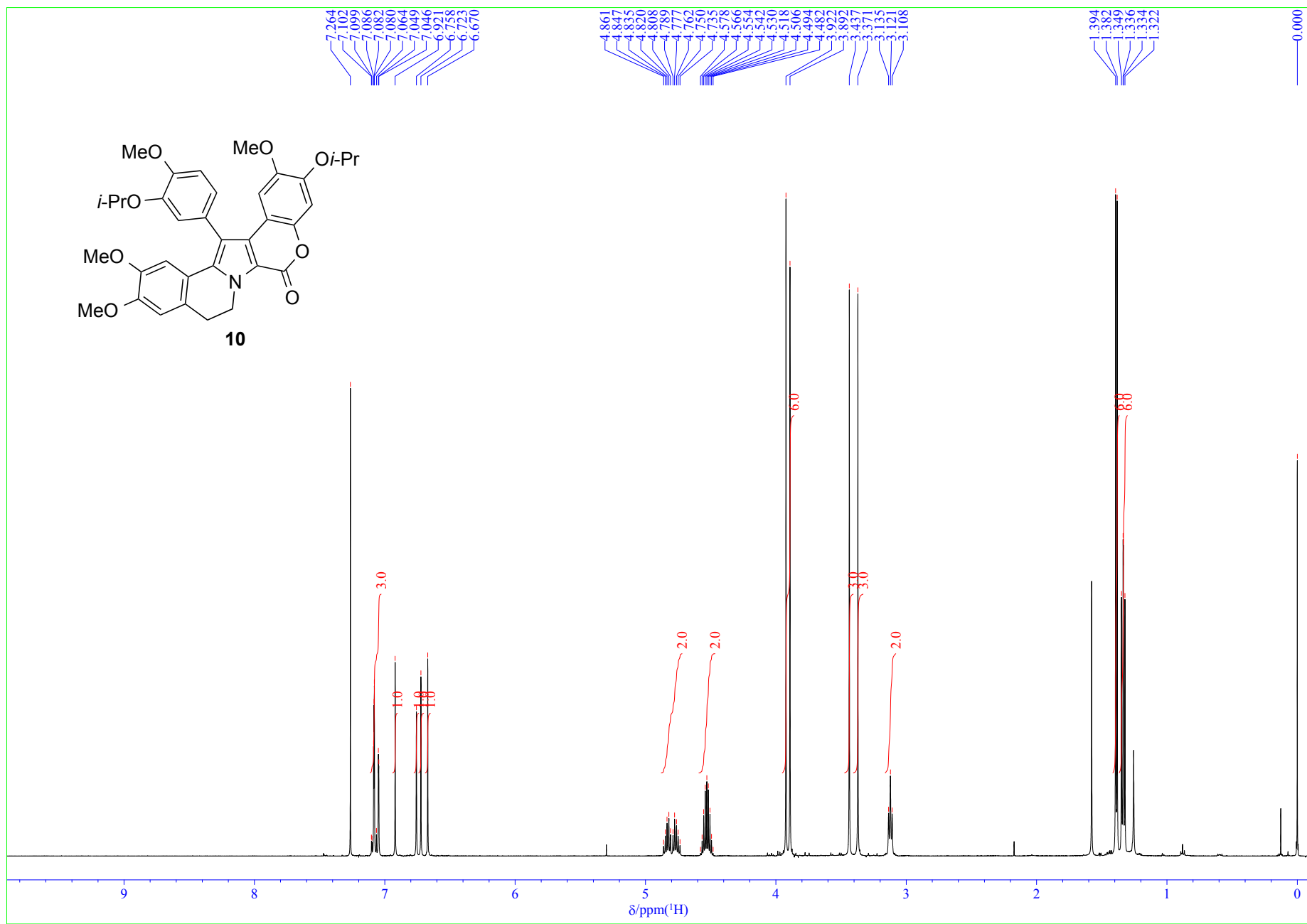


Figure S51. ¹H NMR spectrum of compound **10** (500 MHz, CDCl₃).

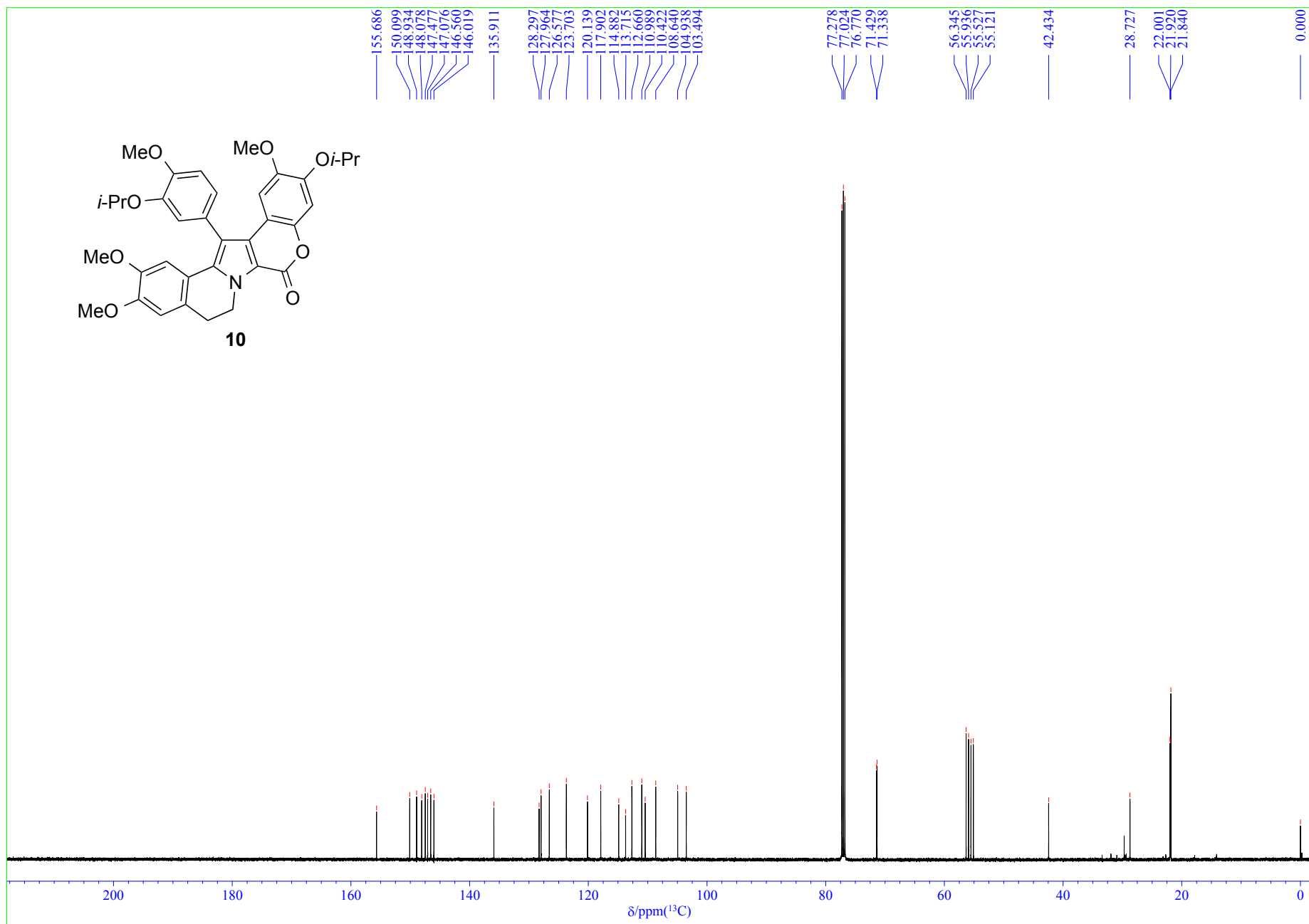


Figure S52. ^{13}C NMR spectrum of compound **10** (125 MHz, CDCl_3).