



Supporting Information

for

Unsaturated fatty acids and a prenylated tryptophan derivative from a rare actinomycete of the genus *Couchioplanes*

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Copies of NMR spectra

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Figure S1. ^1H NMR spectrum of compound **1** (500 MHz, CDCl_3).

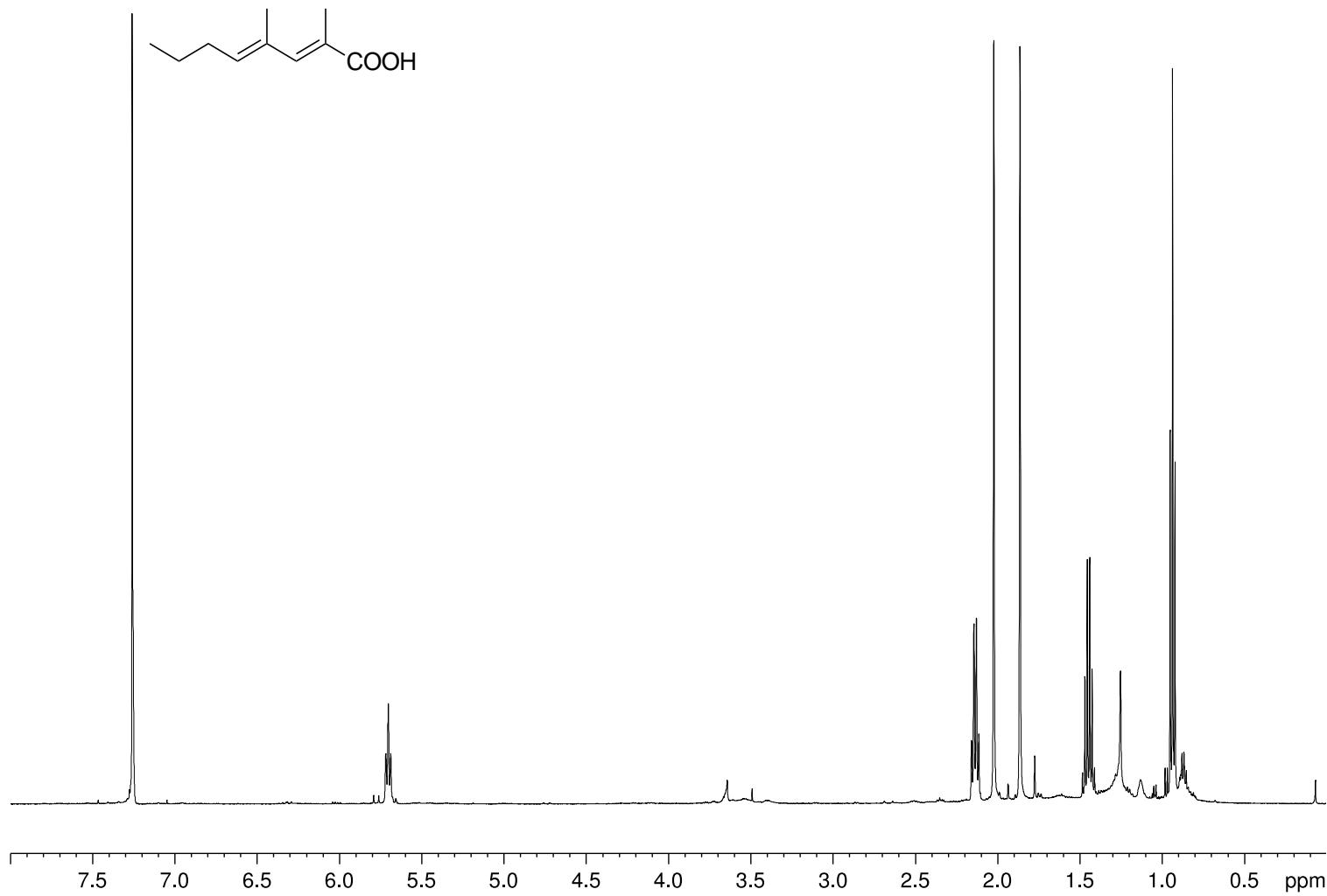


Figure S2. ^{13}C NMR spectrum of **1** (500 MHz, CDCl_3).

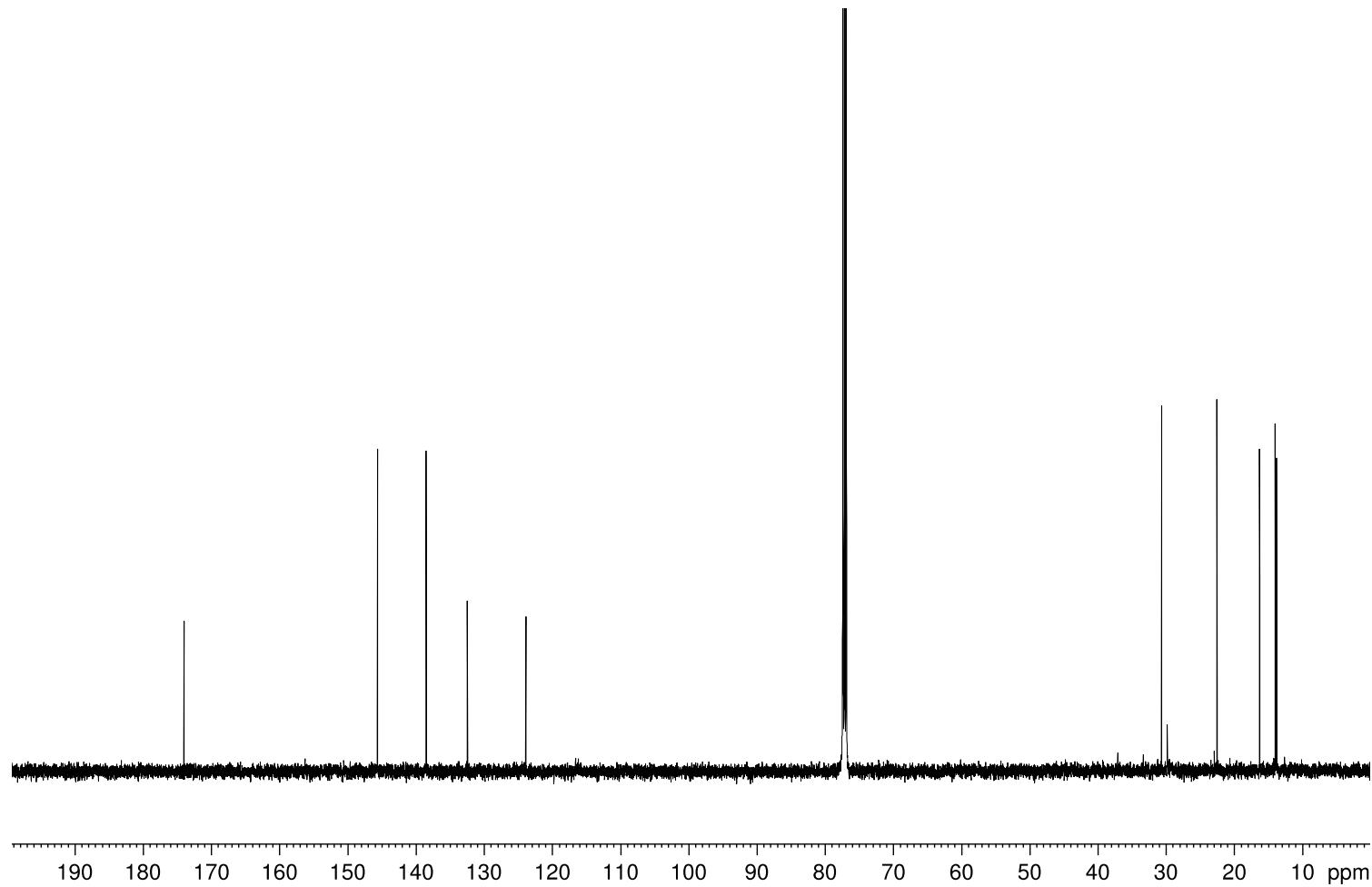


Figure S3. ^1H - ^1H COSY spectrum of **1** (500 MHz, CDCl_3).

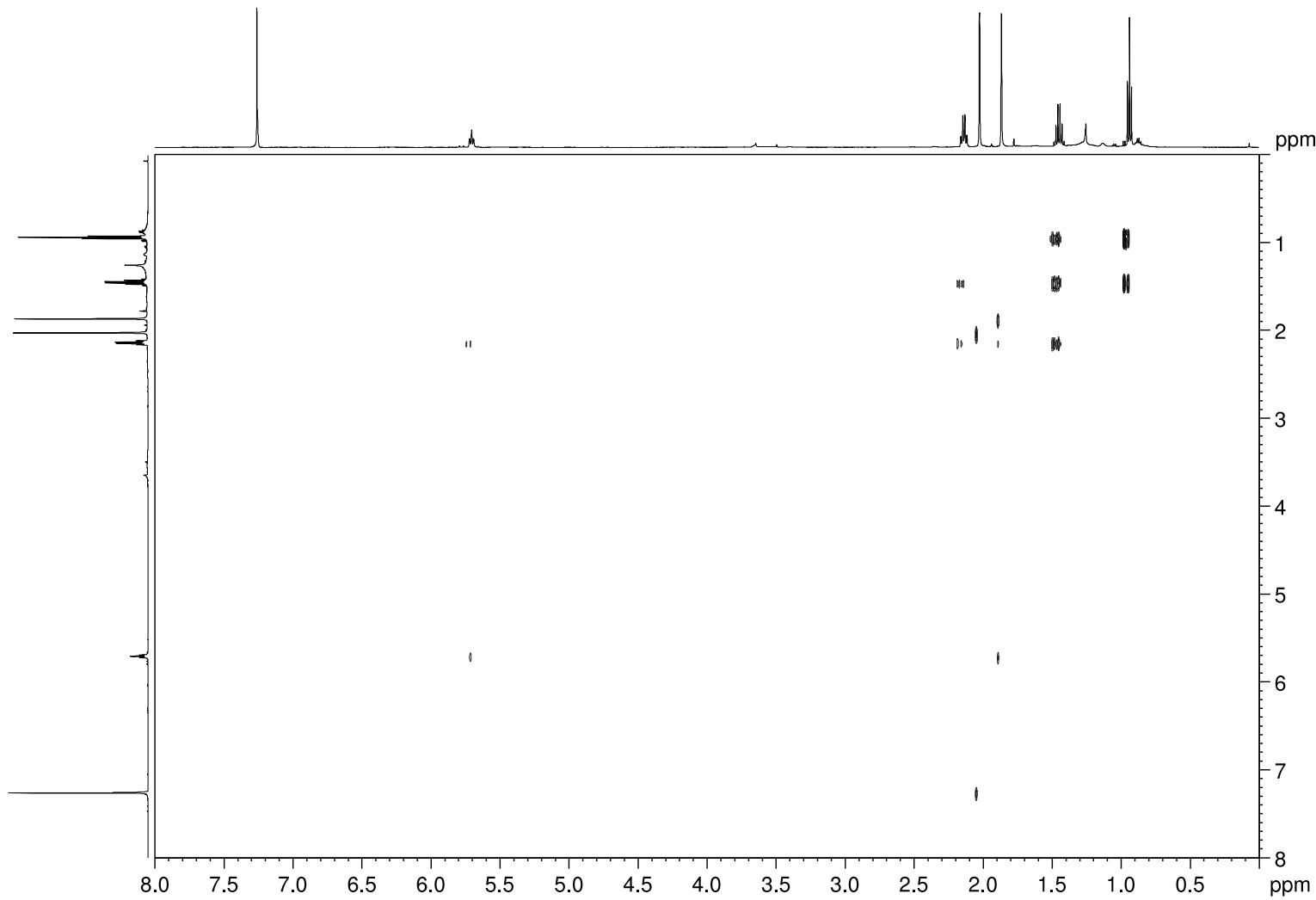


Figure S4. HSQC spectrum of **1** (500 MHz, CDCl_3).

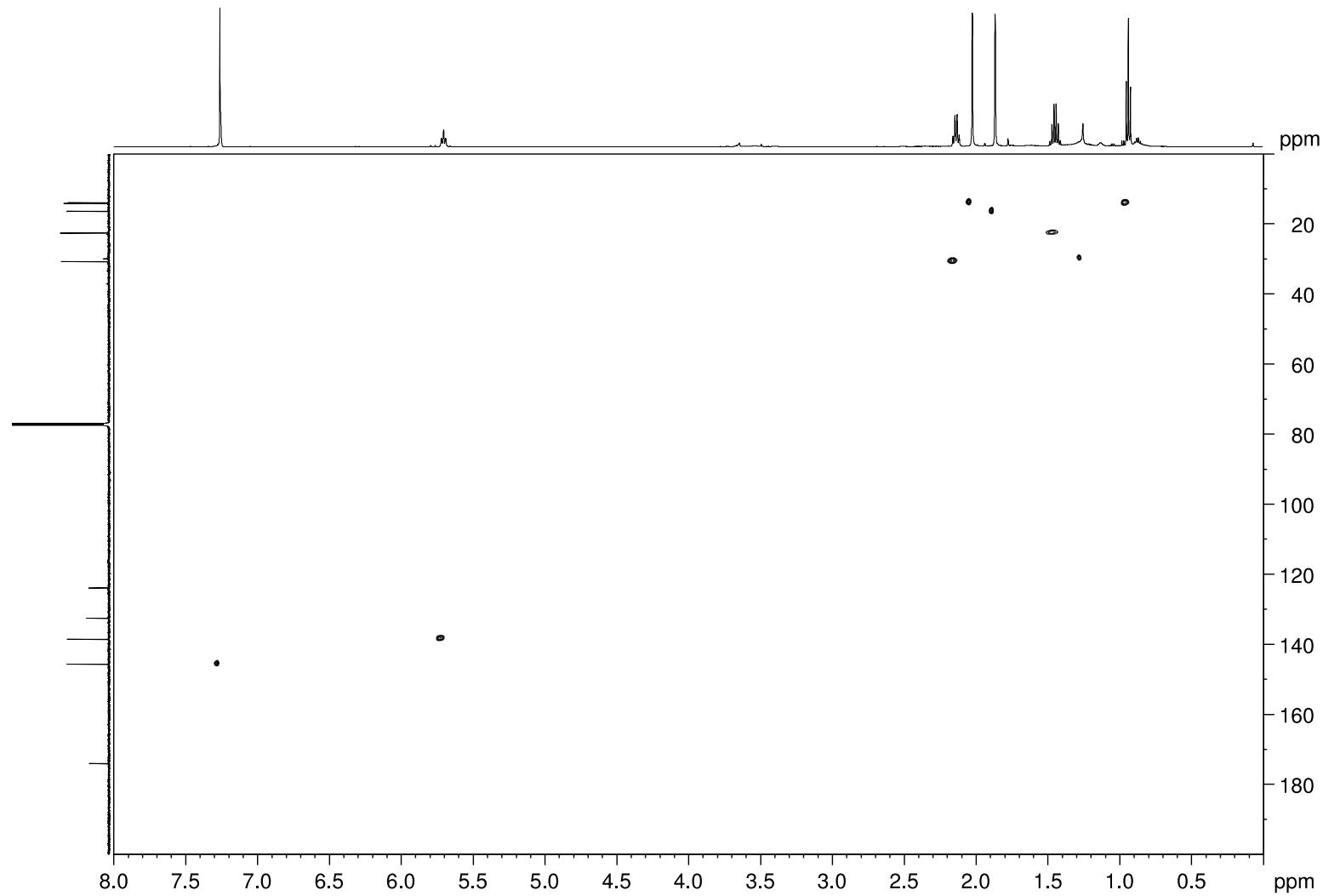


Figure S5. HMBC spectrum of **1** (500 MHz, CDCl_3).

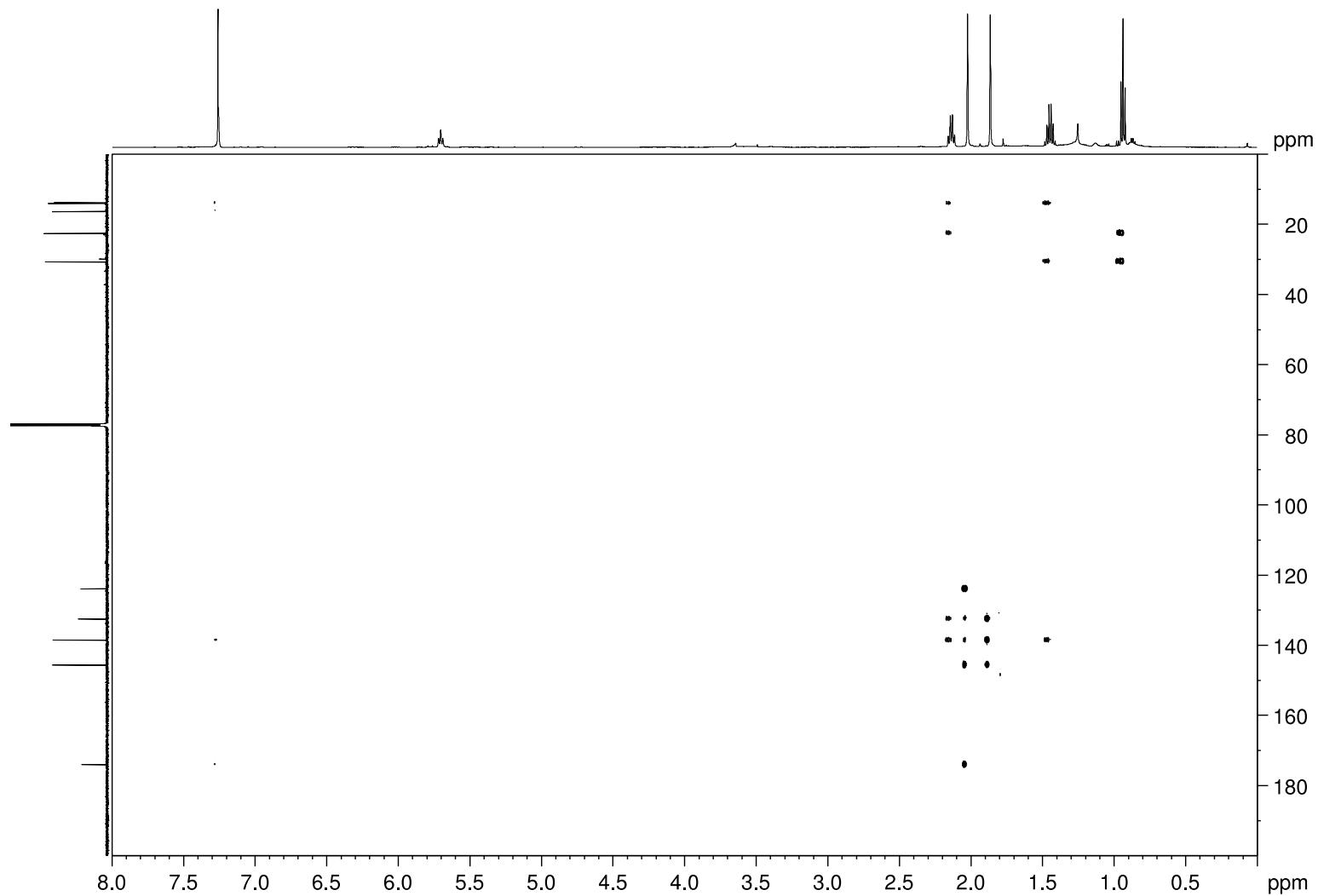


Figure S6. NOESY spectrum of **1** (500 MHz, CDCl_3).

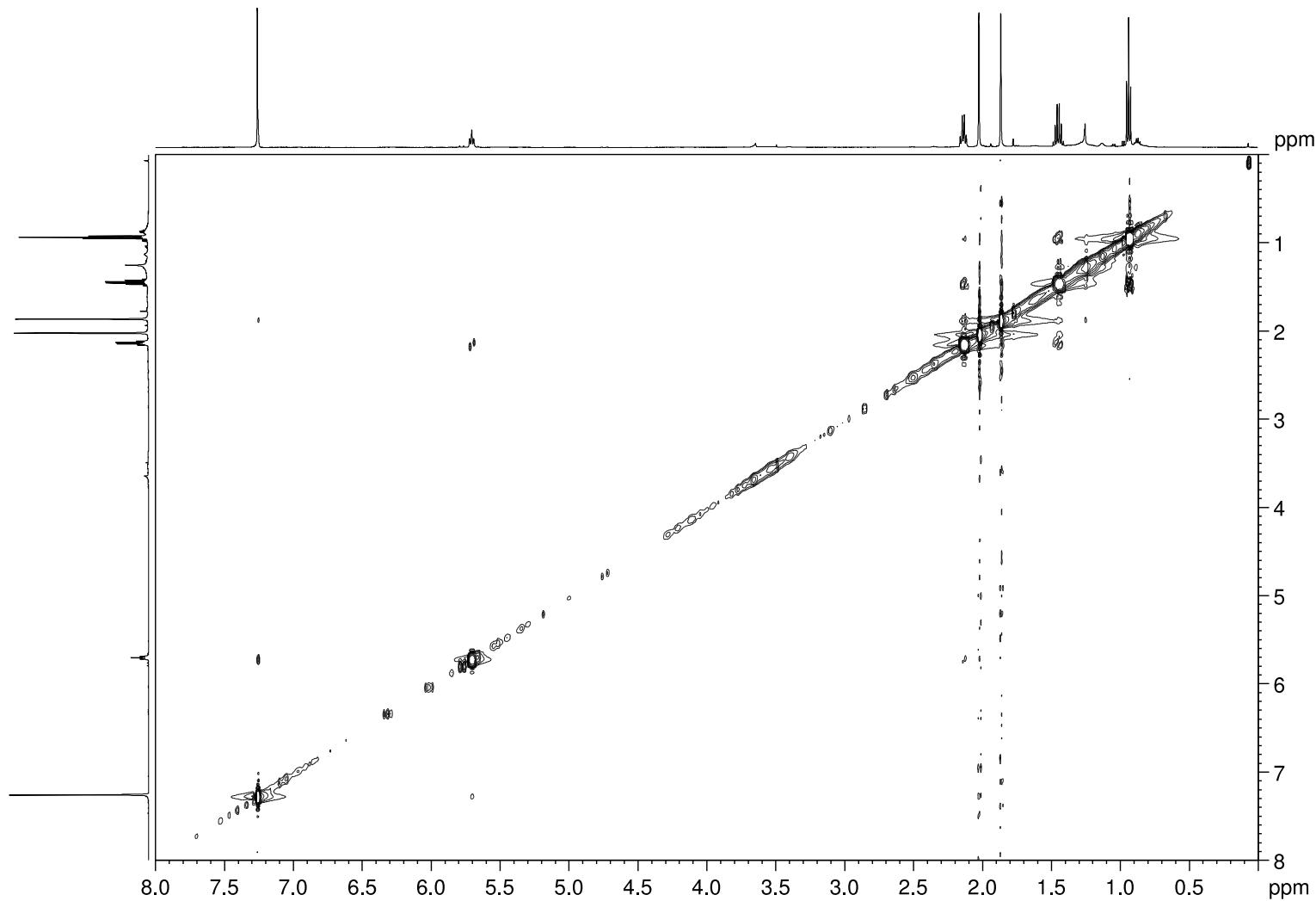


Figure S7. ^1H NMR spectrum of compound **2** (500 MHz, CDCl_3).

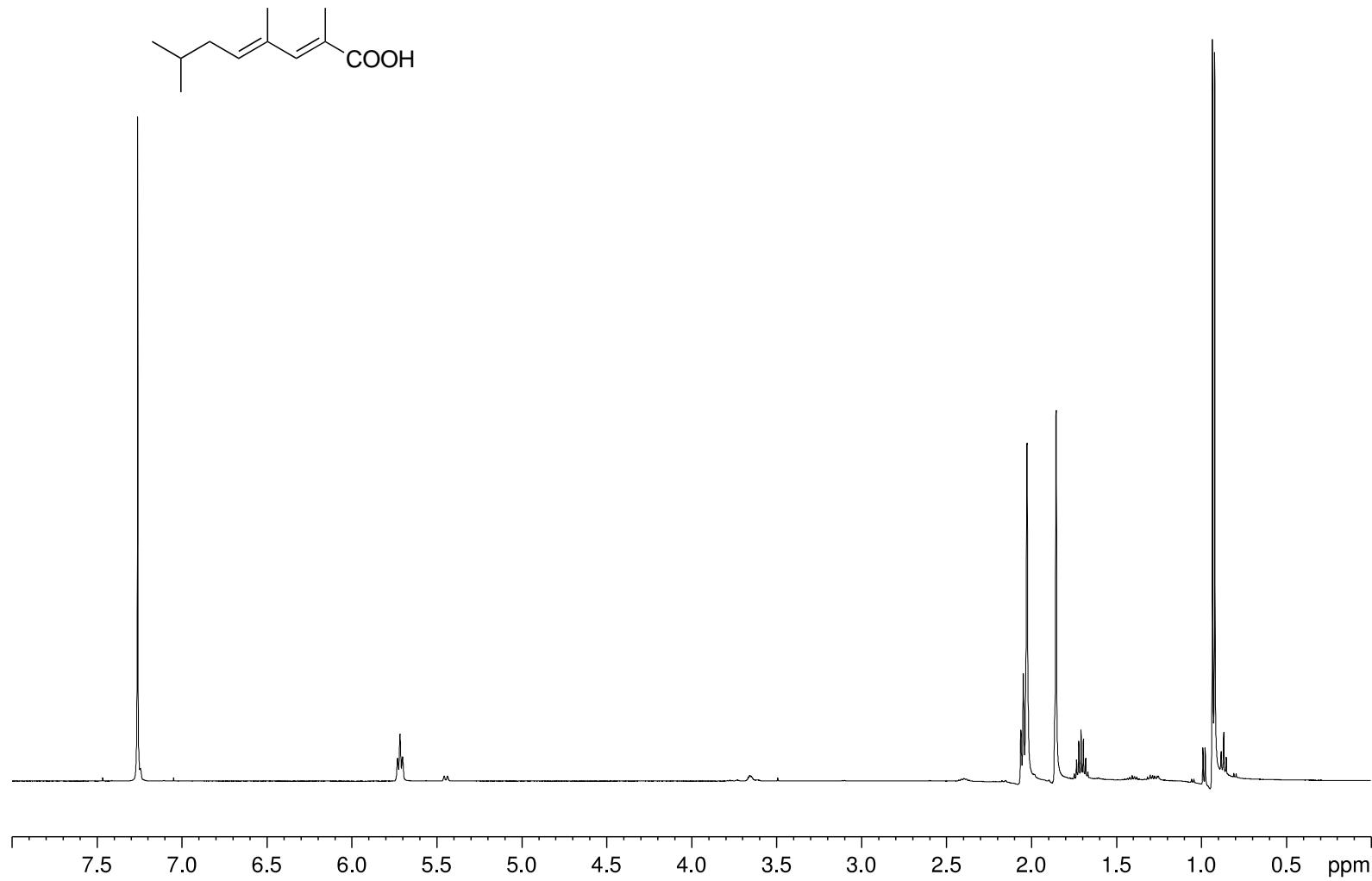


Figure S8. ^{13}C NMR spectrum of **2** (125 MHz, CDCl_3).

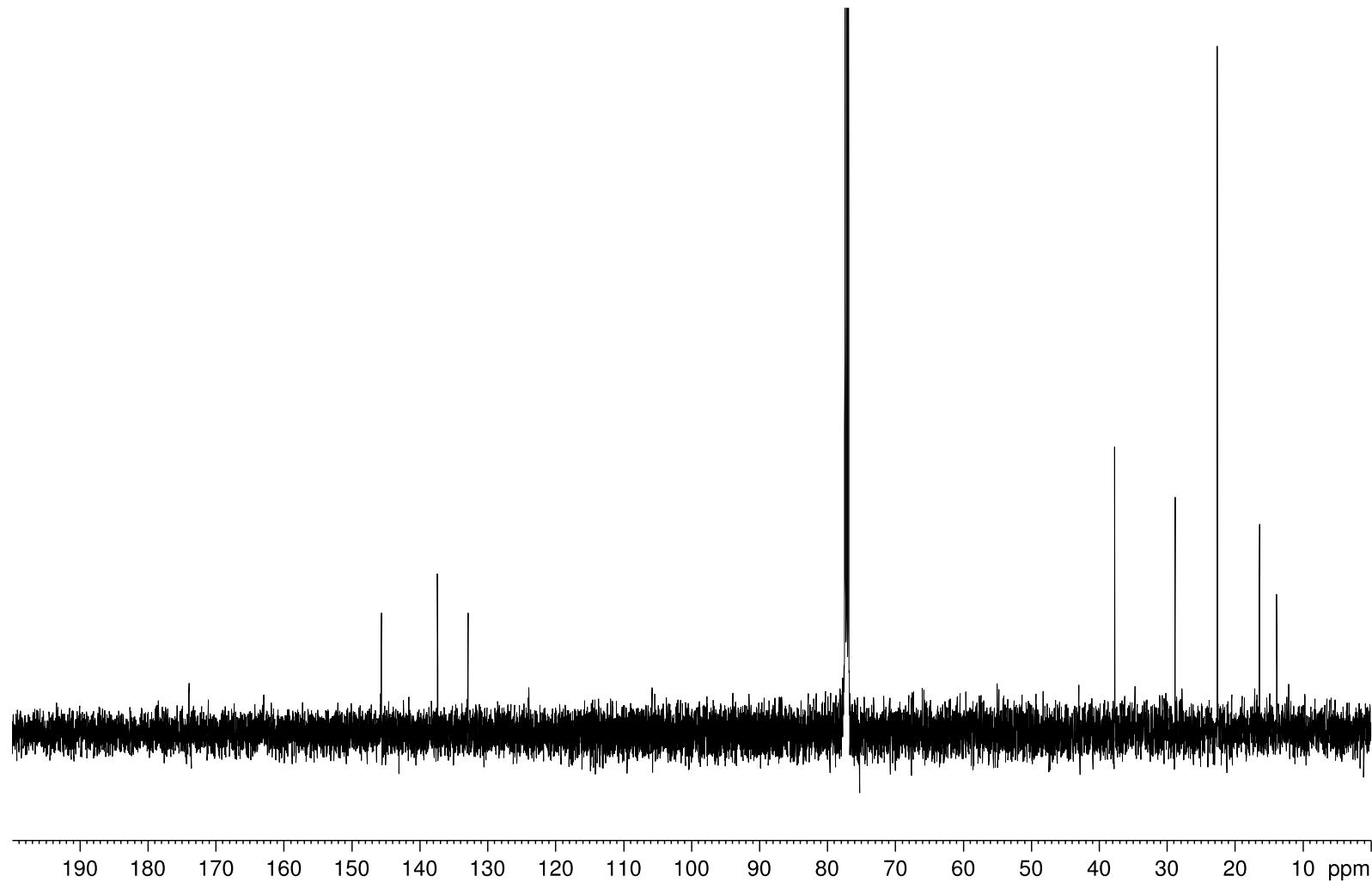


Figure S9. ^1H - ^1H COSY spectrum of **2** (500 MHz, CDCl_3).

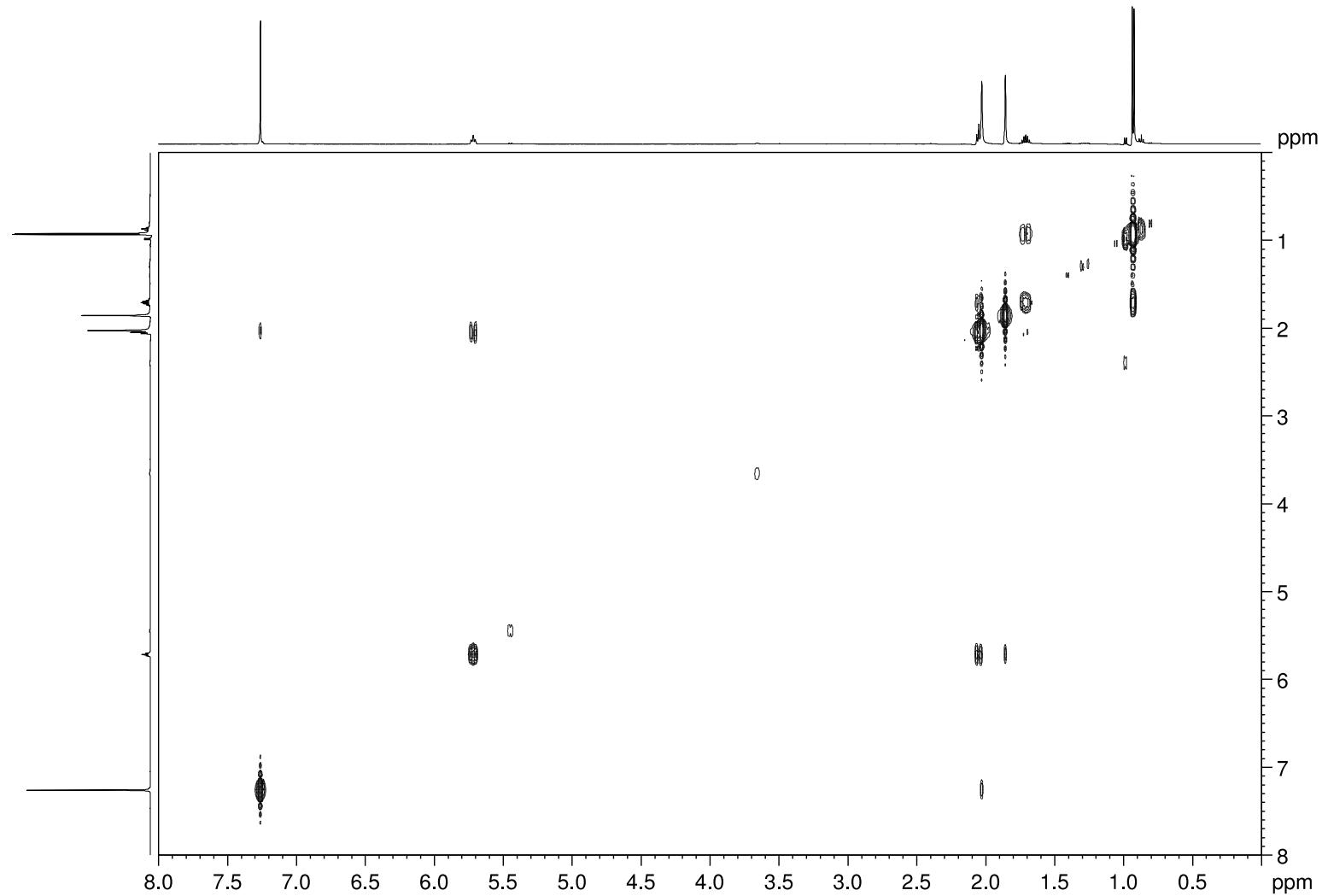


Figure S10. HSQC spectrum of **2** (500 MHz, CDCl_3).

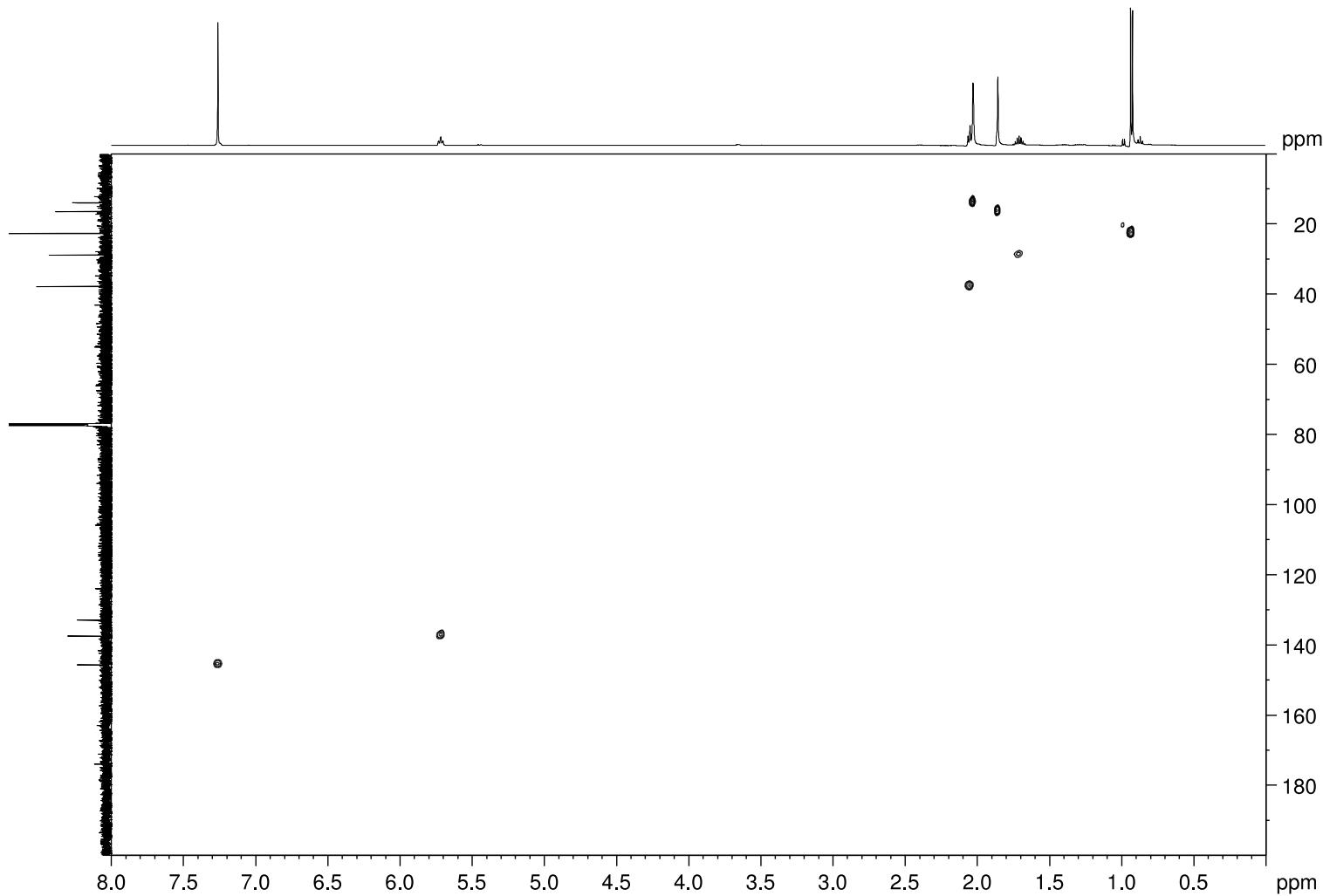


Figure S11. HMBC spectrum of **2** (500 MHz, CDCl_3).

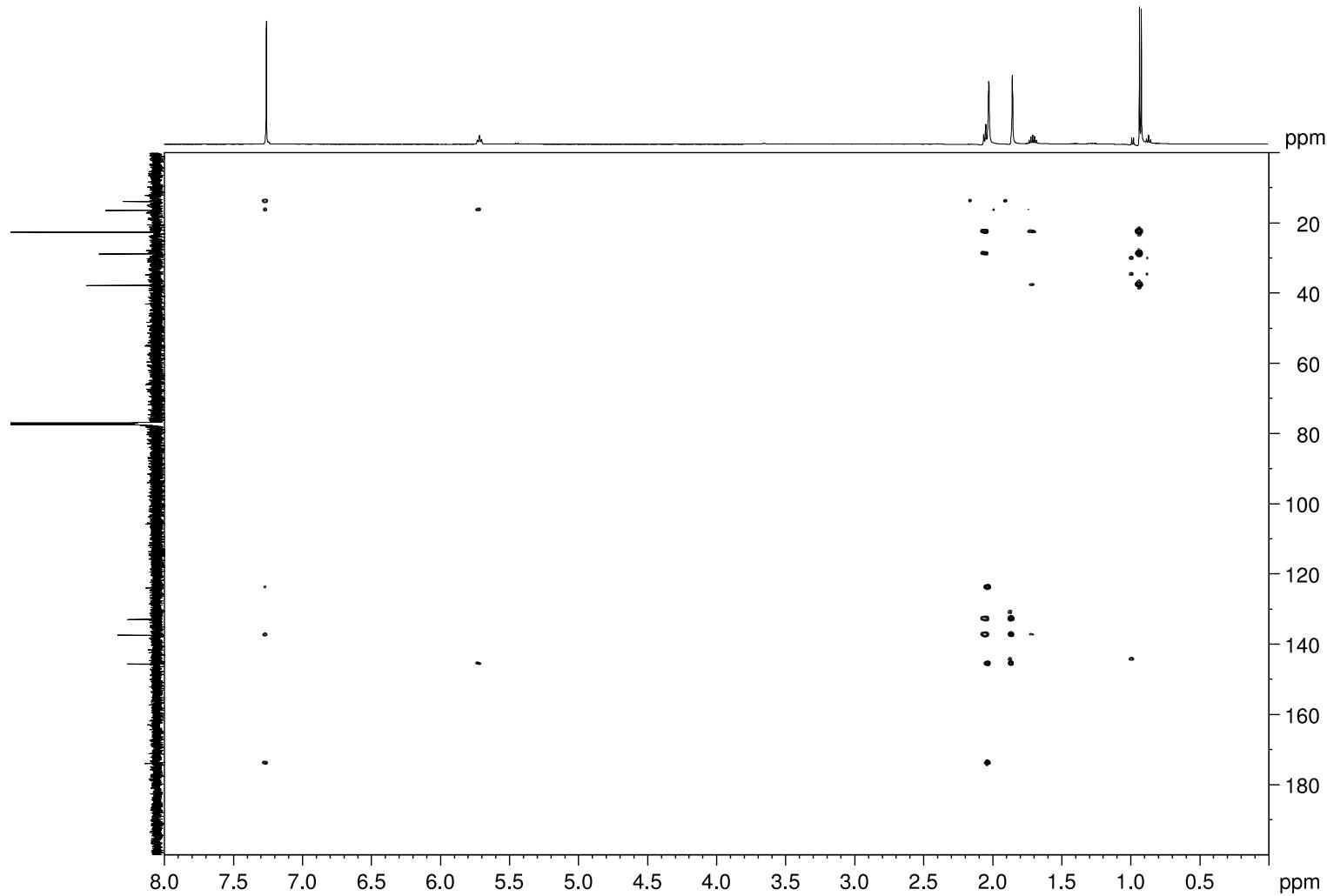


Figure S12. NOESY spectrum of **2** (500 MHz, CDCl_3).

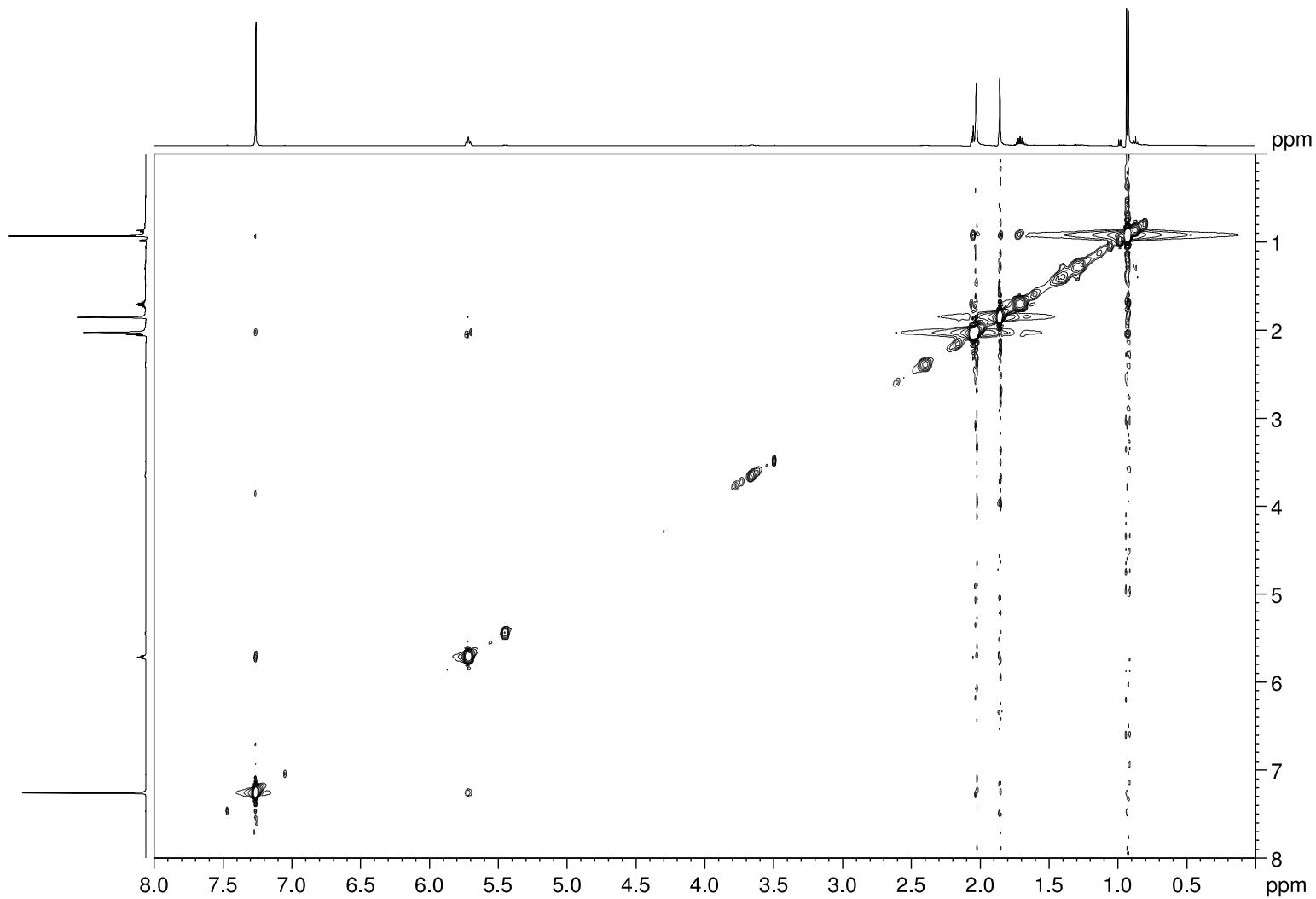


Figure S13. ^1H NMR spectrum of compound **3** (500 MHz, CDCl_3).

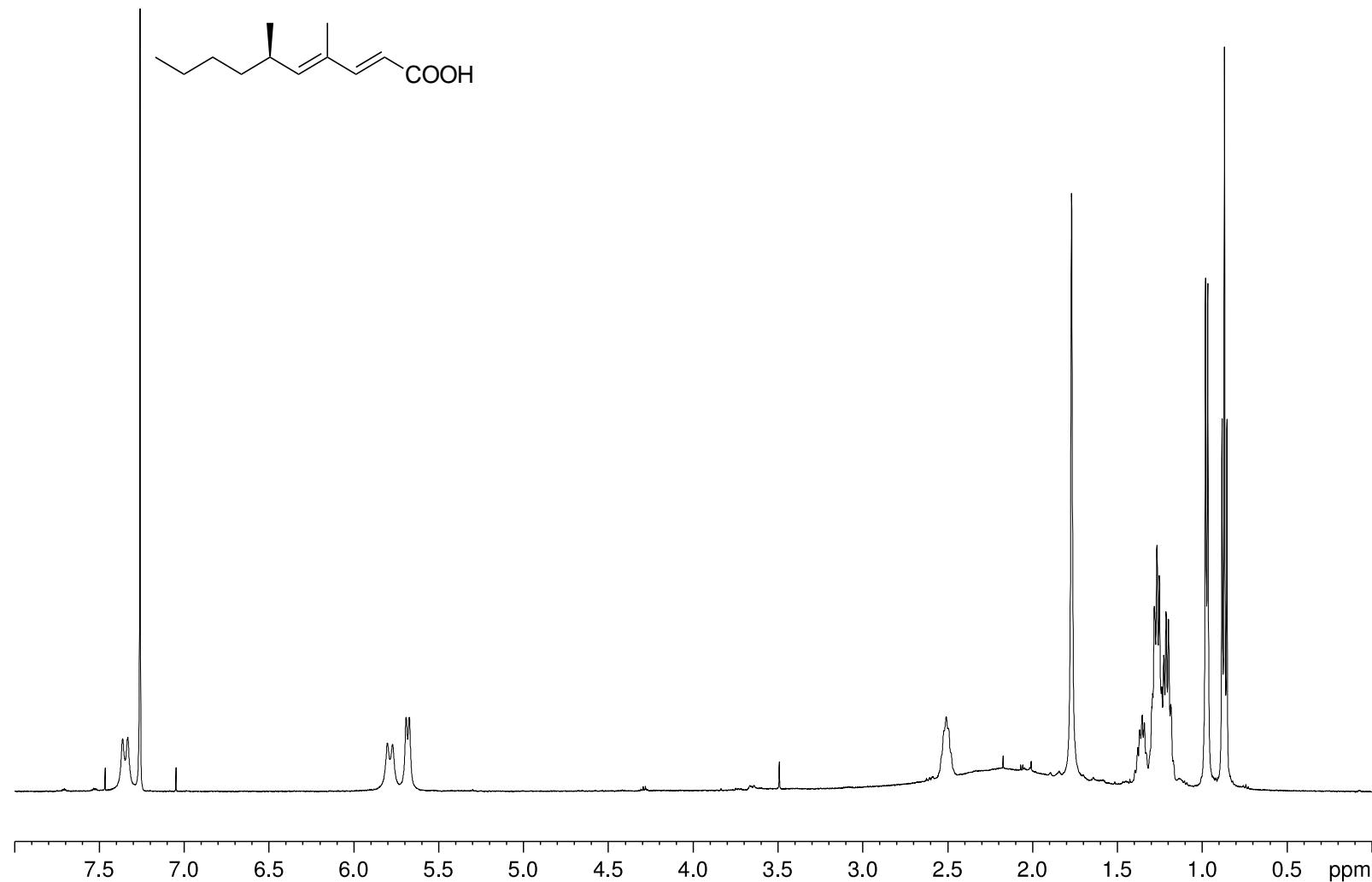


Figure S14. ^{13}C NMR spectrum of **3** (125 MHz, CDCl_3).

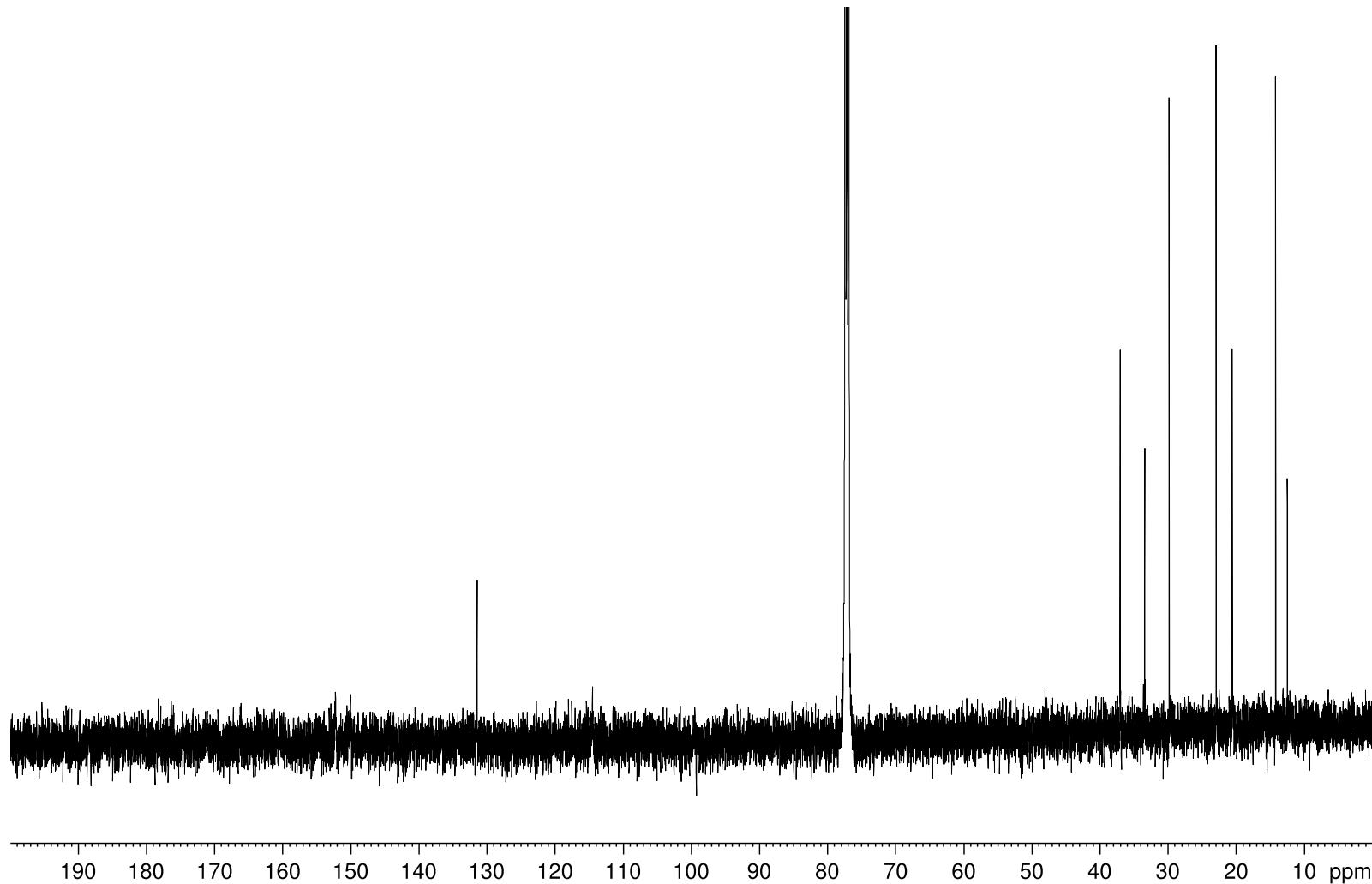


Figure S15. ^1H - ^1H COSY spectrum of **3** (500 MHz, CDCl_3).

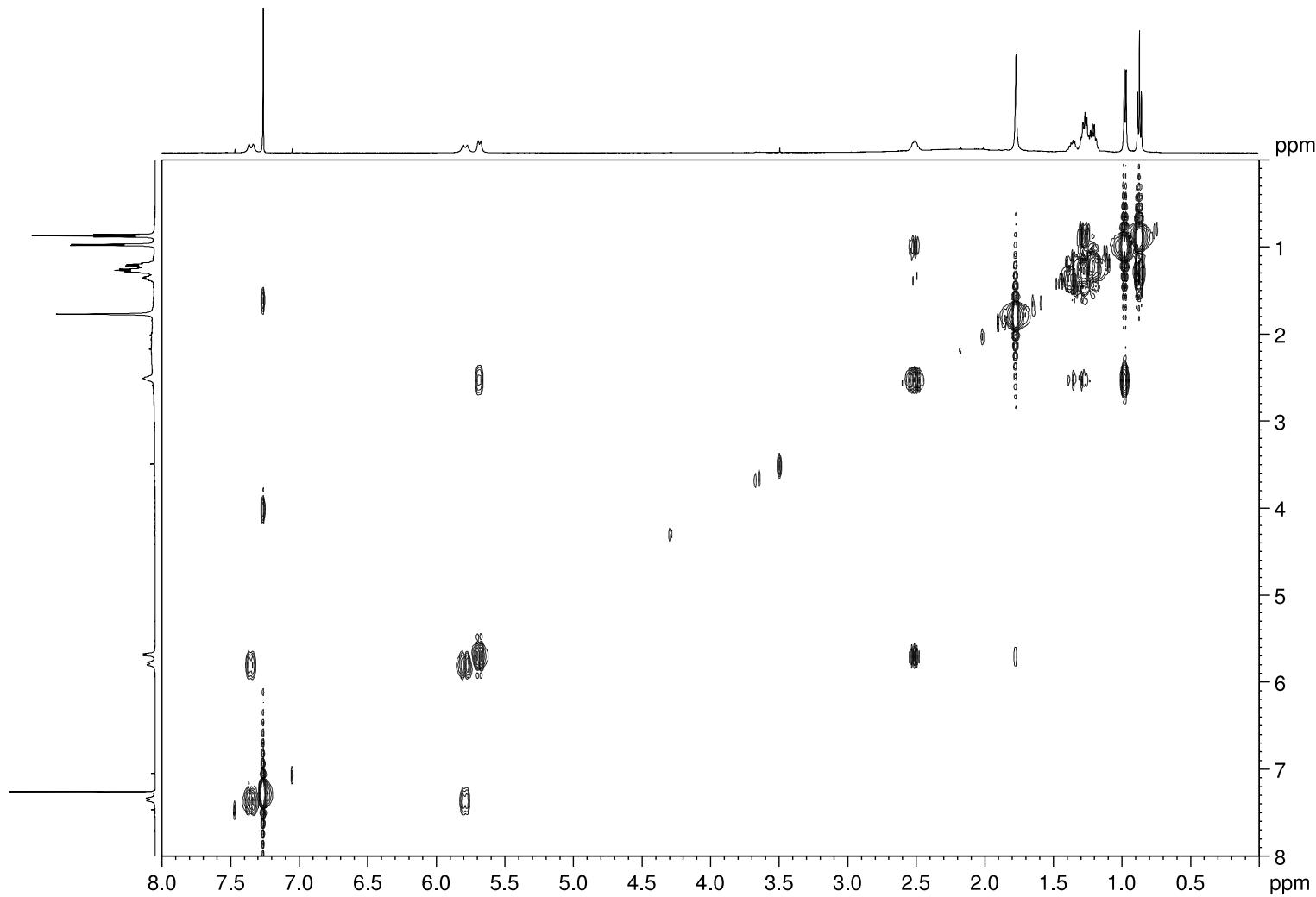


Figure S16. HSQC spectrum of **3** (500 MHz, CDCl_3).

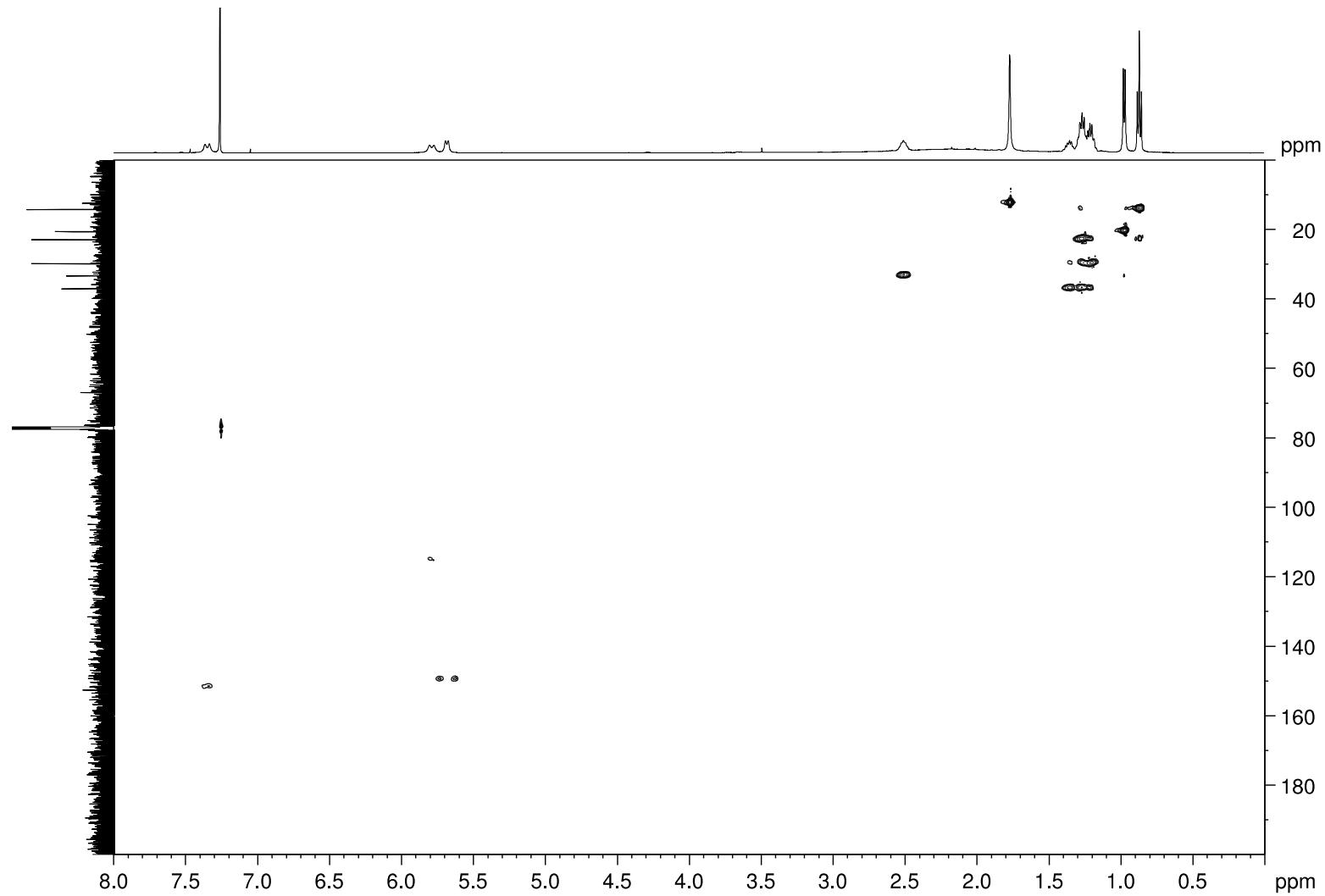


Figure S17. HMBC spectrum of **3** (500 MHz, CDCl_3).

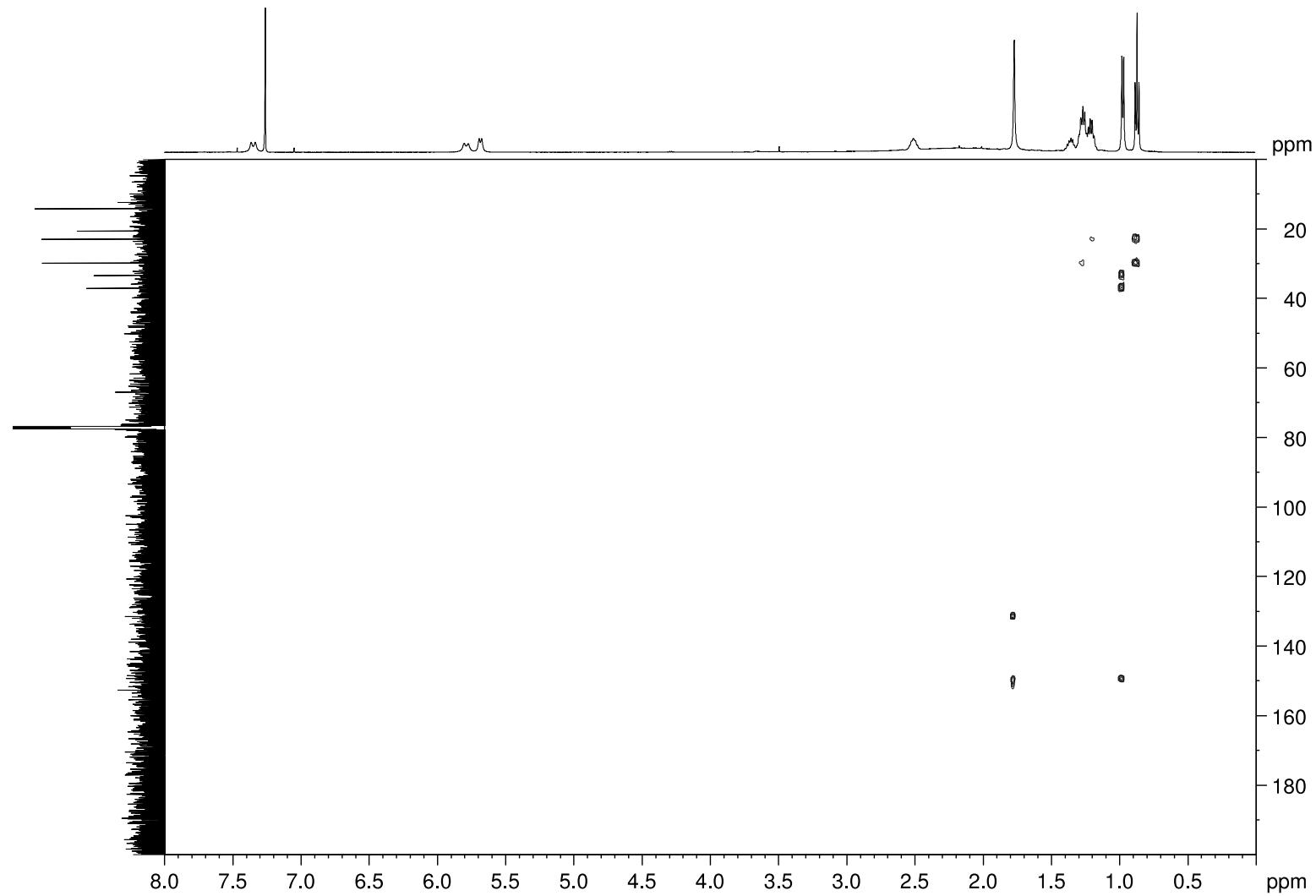


Figure S18. NOESY spectrum of **3** (500 MHz, CDCl_3).

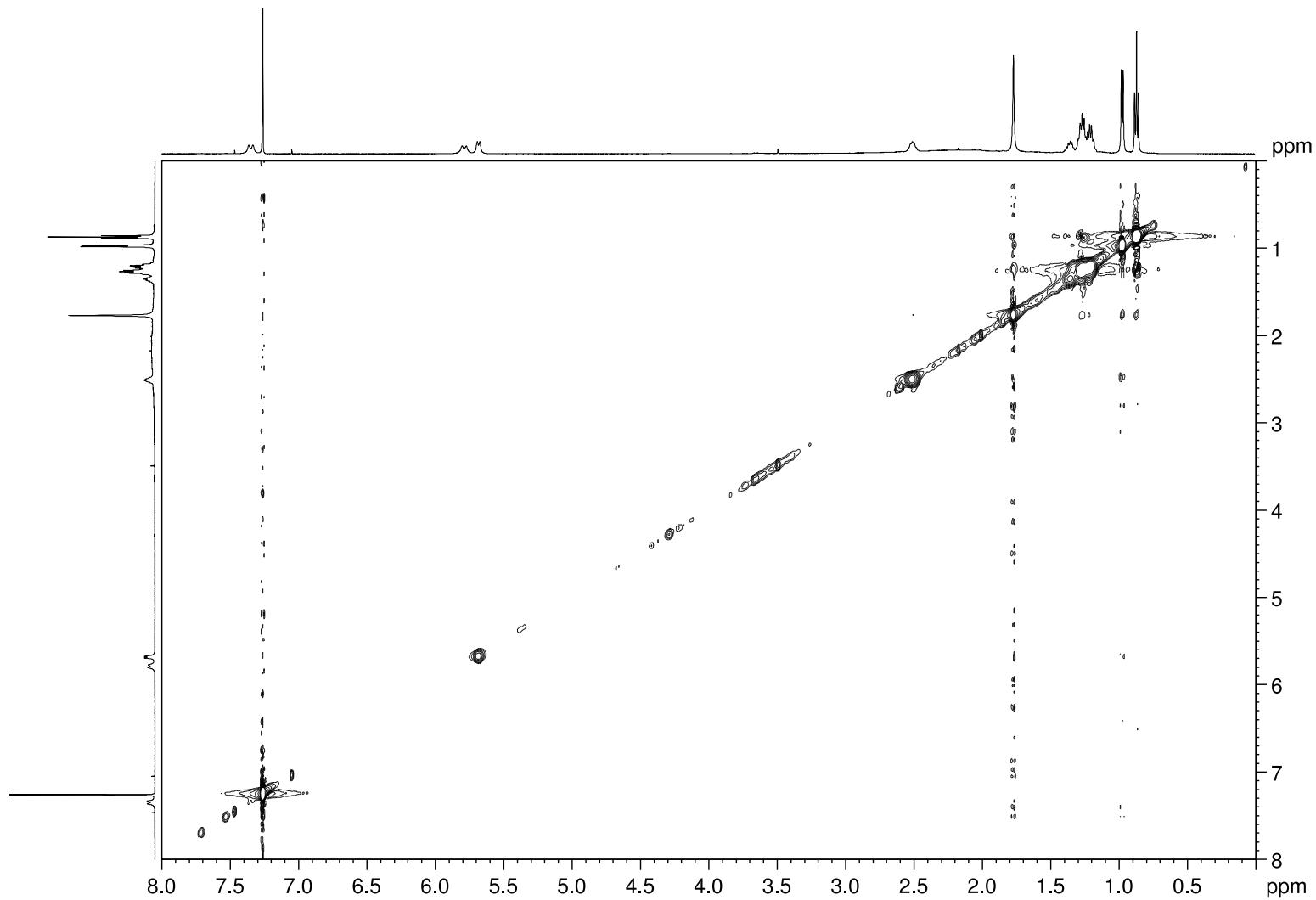


Figure S19. ^1H NMR spectrum of compound **4** (500 MHz, CDCl_3).

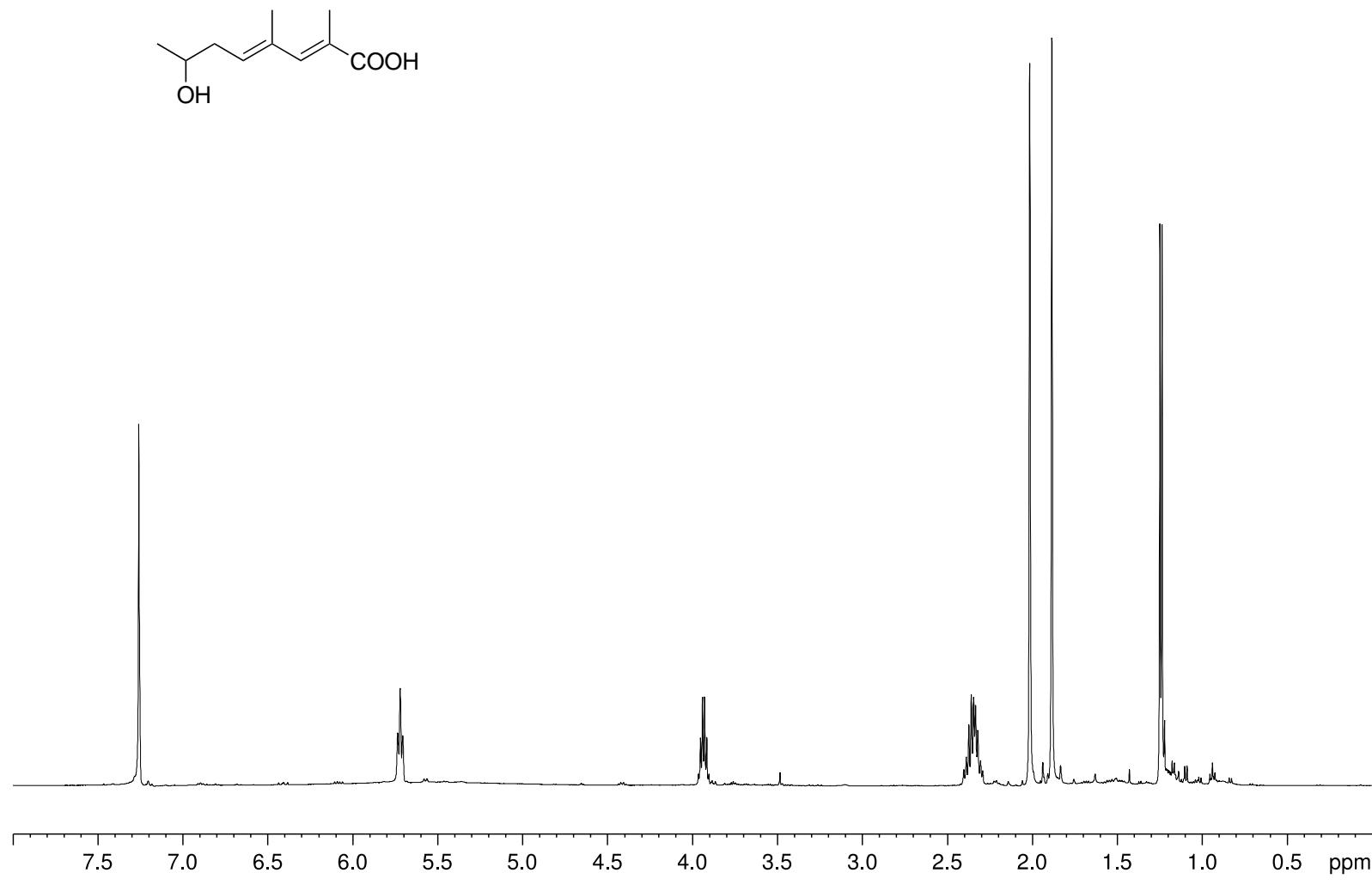


Figure S20. ^{13}C NMR spectrum of **4** (125 MHz, CDCl_3).

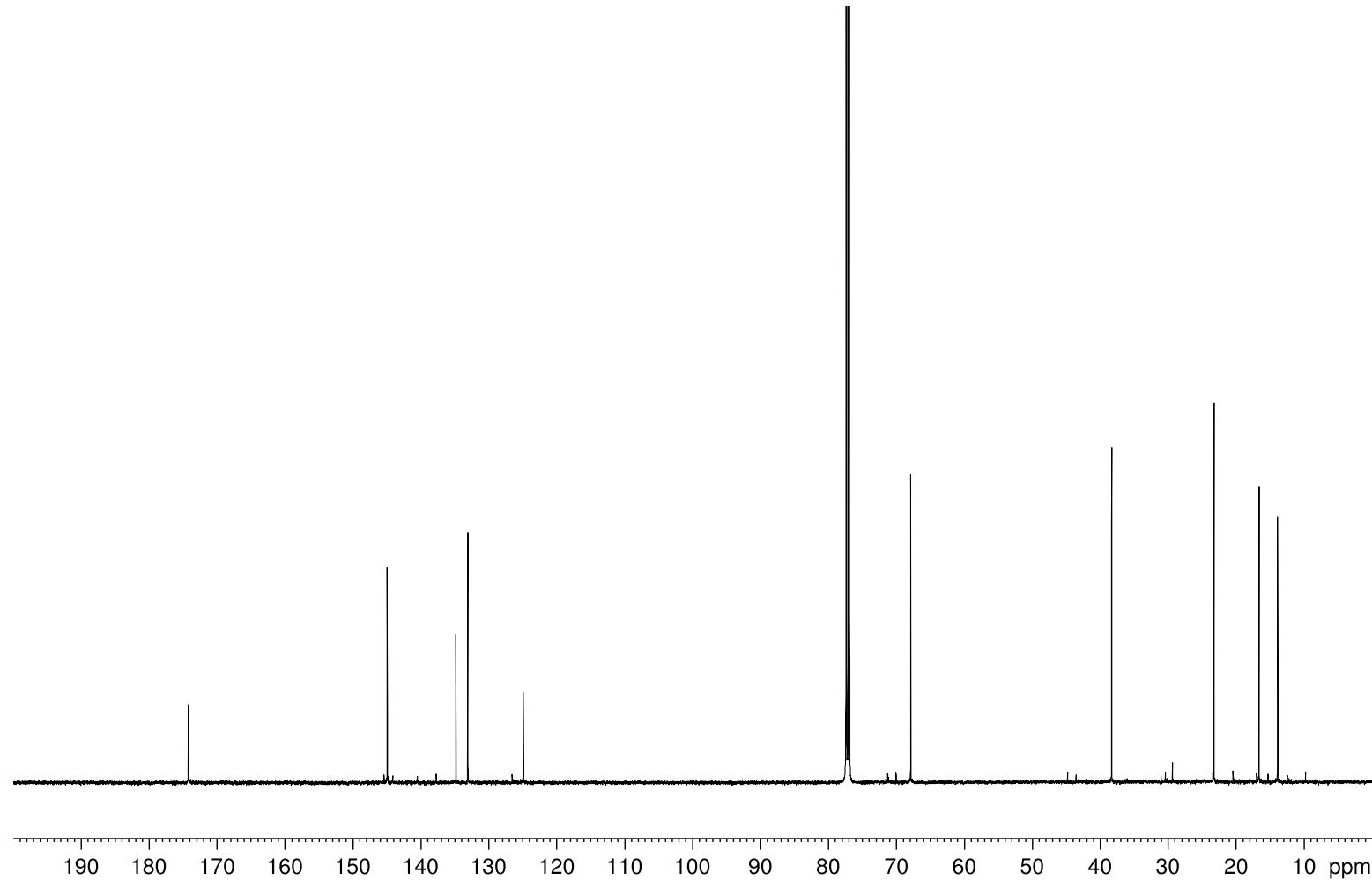


Figure S21. ^1H - ^1H COSY spectrum of **4** (500 MHz, CDCl_3).

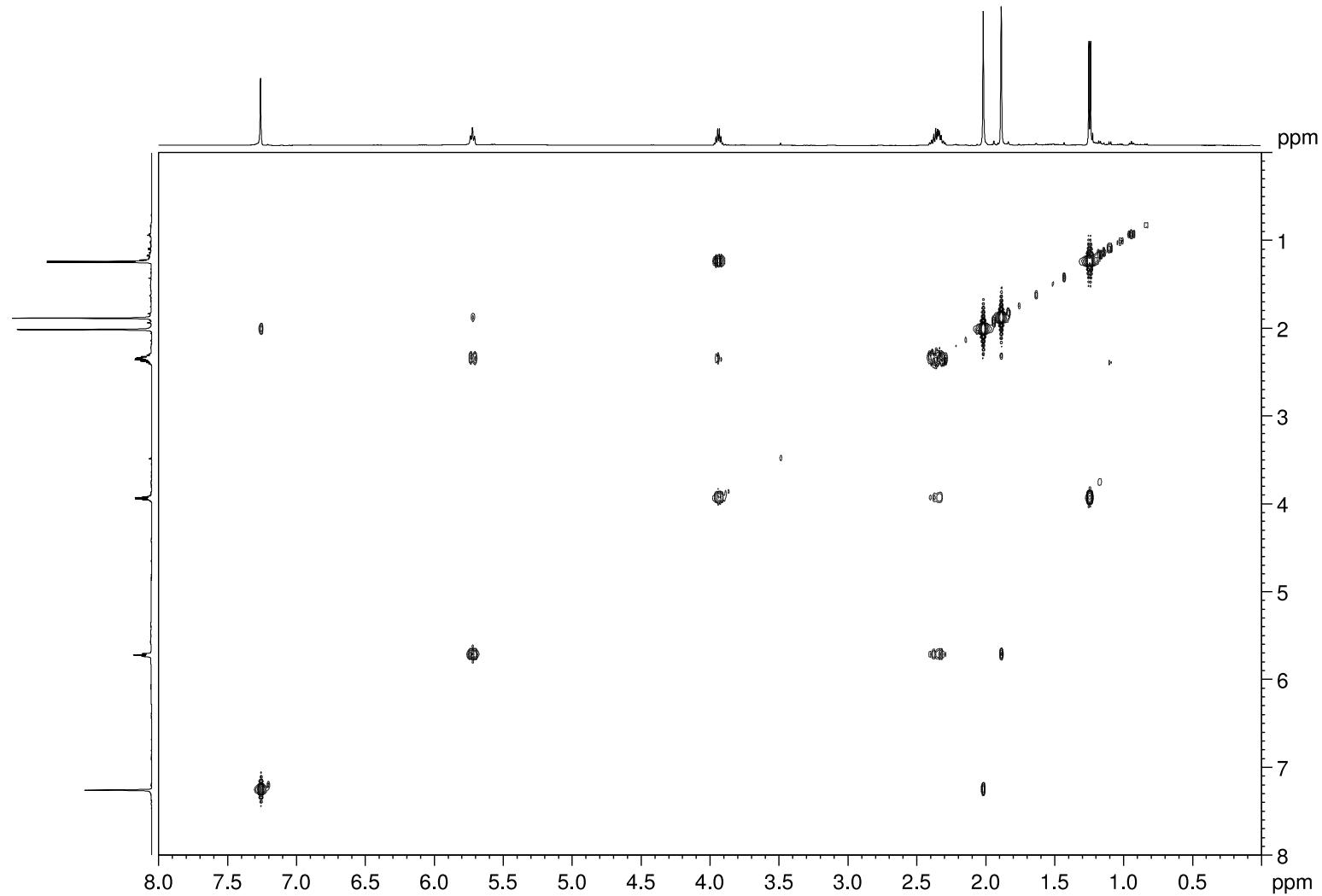


Figure S22. HSQC spectrum of **4** (500 MHz, CDCl_3).

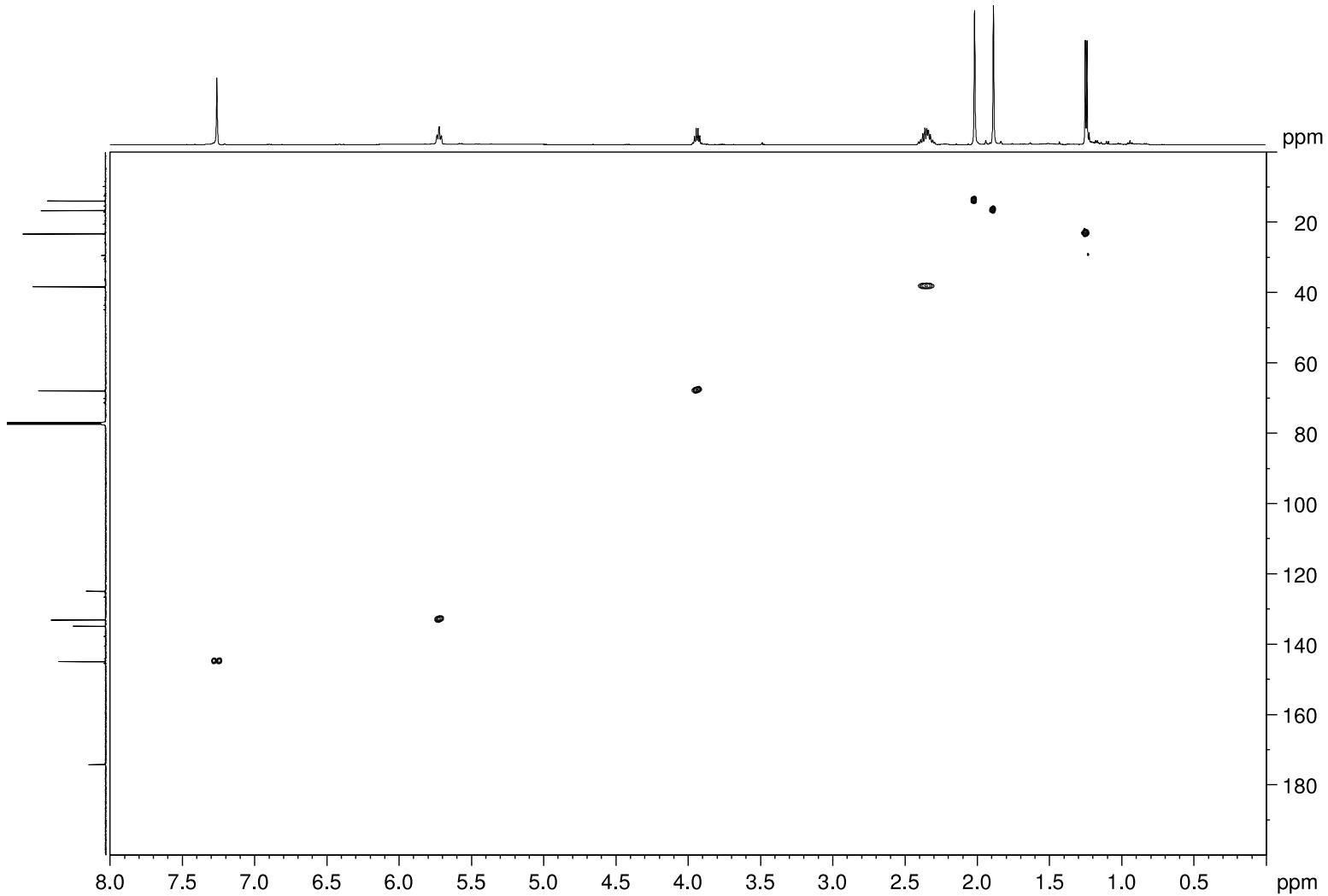


Figure S23. HMBC spectrum of **4** (500 MHz, CDCl_3).

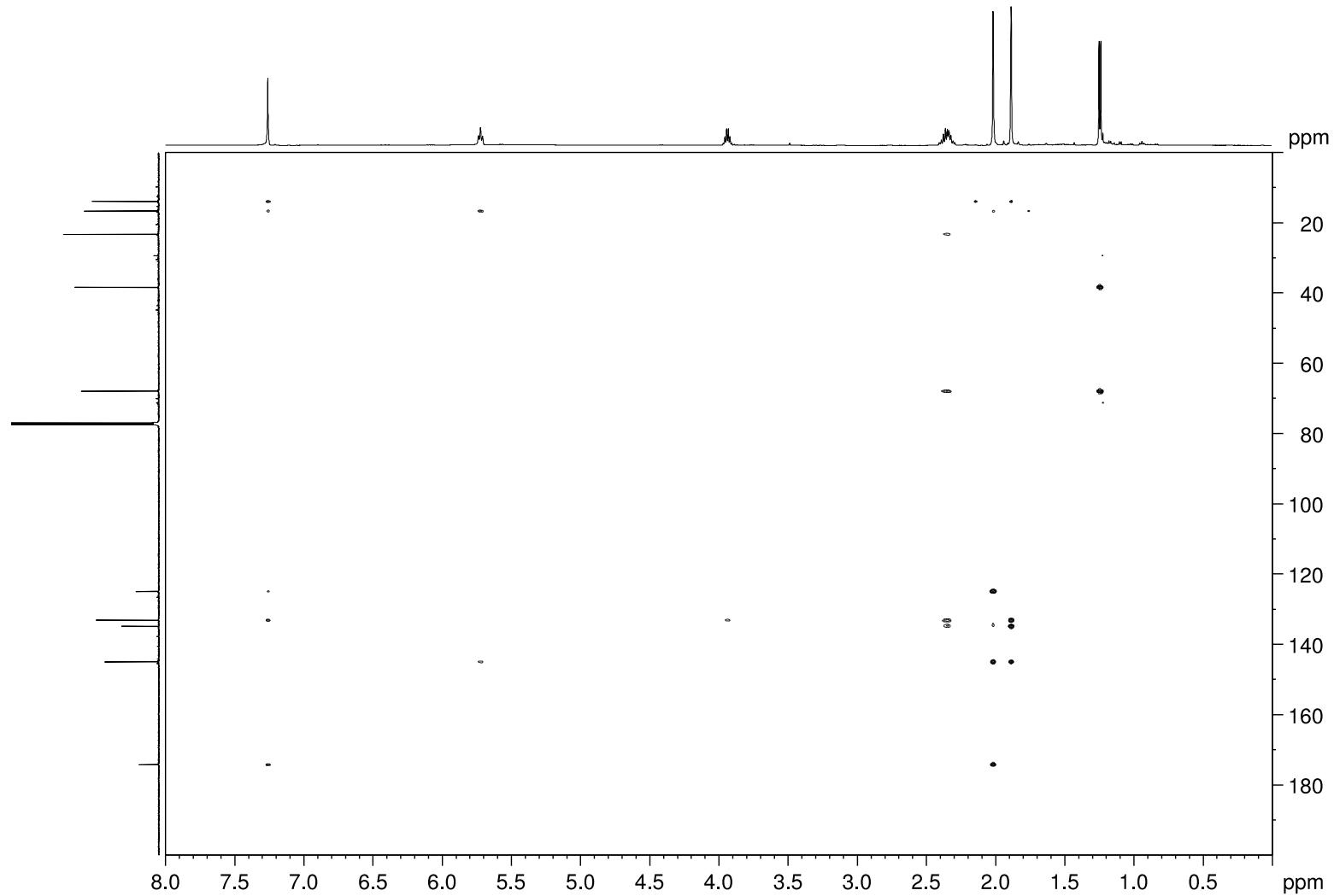


Figure S24. NOESY spectrum of **4** (500 MHz, CDCl_3).

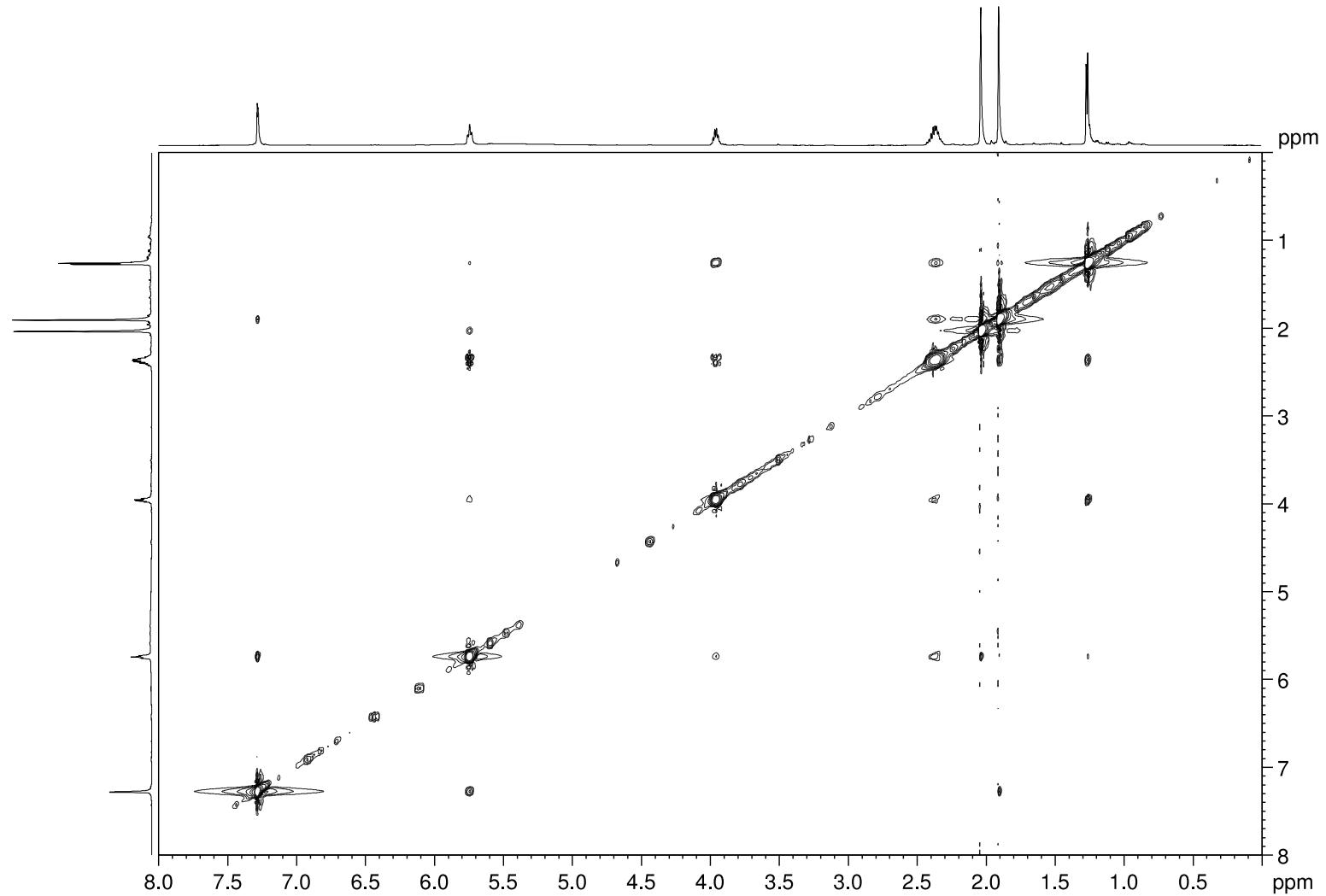
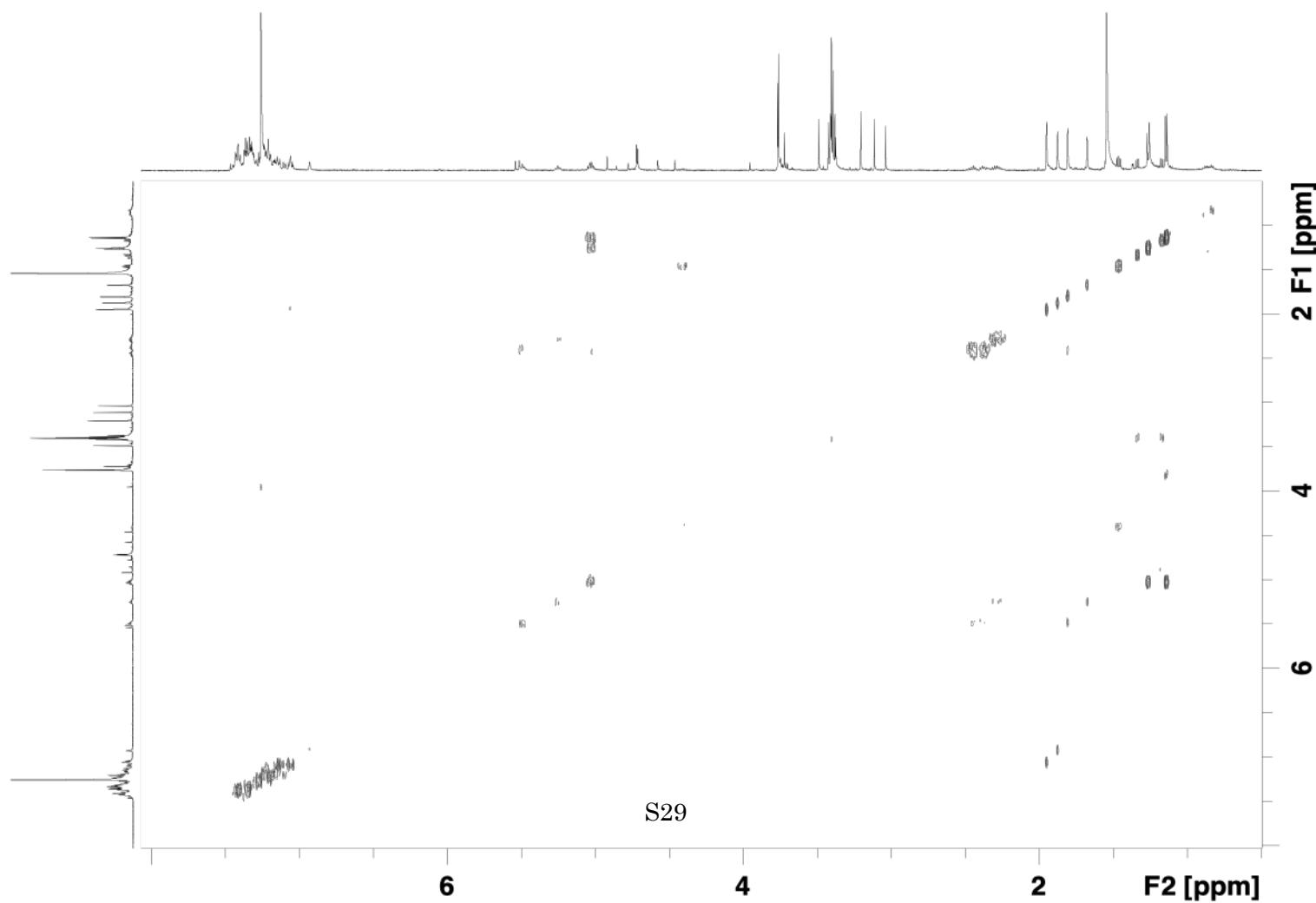


Figure S25. ^1H - ^1H COSY spectrum of **4'a** (500 MHz, CDCl_3).



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Figure S26. ^1H - ^1H COSY spectrum of **4'b** (500 MHz, CDCl_3).

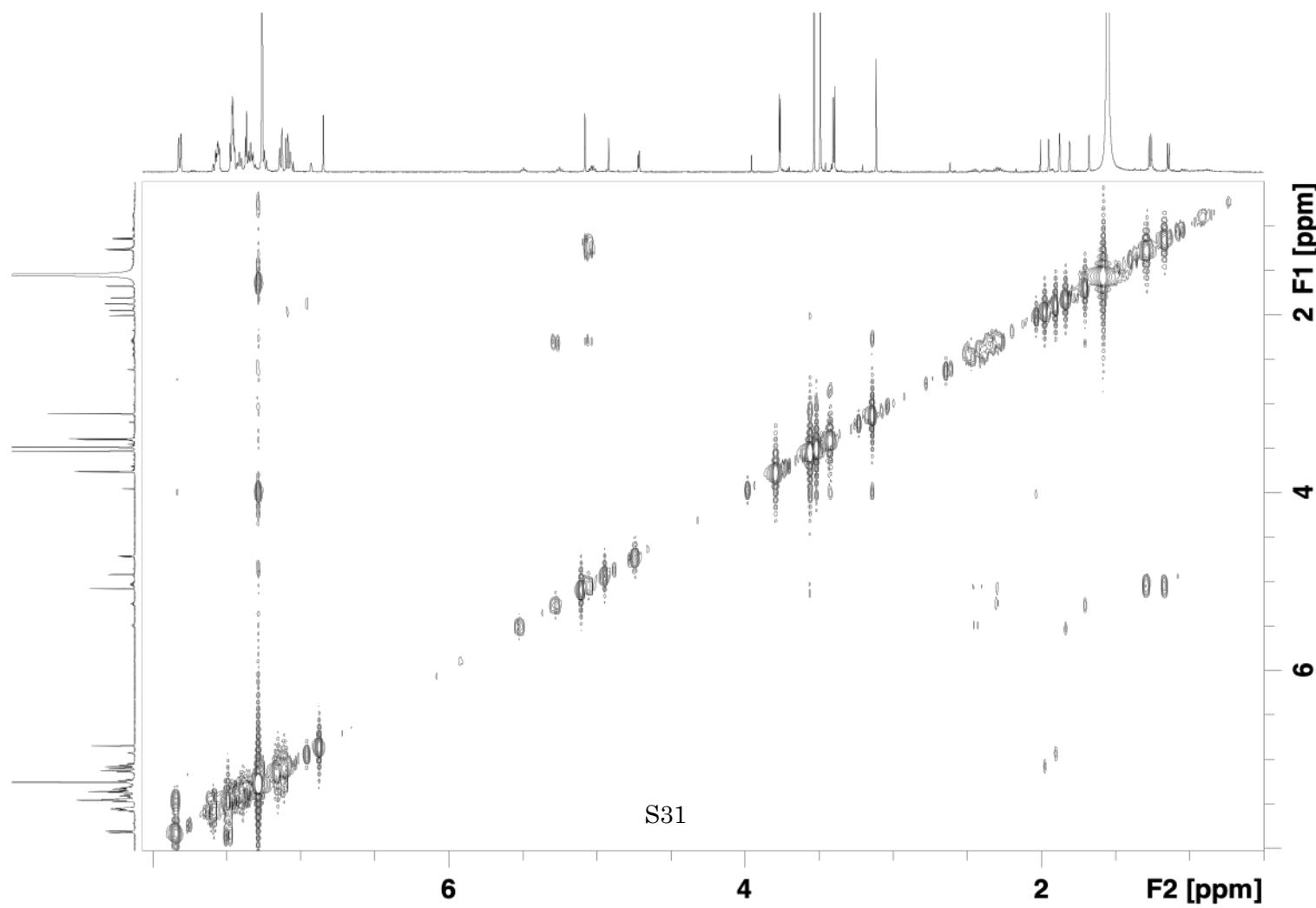


Figure S27. ^1H NMR spectrum of compound **5** (500 MHz, CDCl_3).

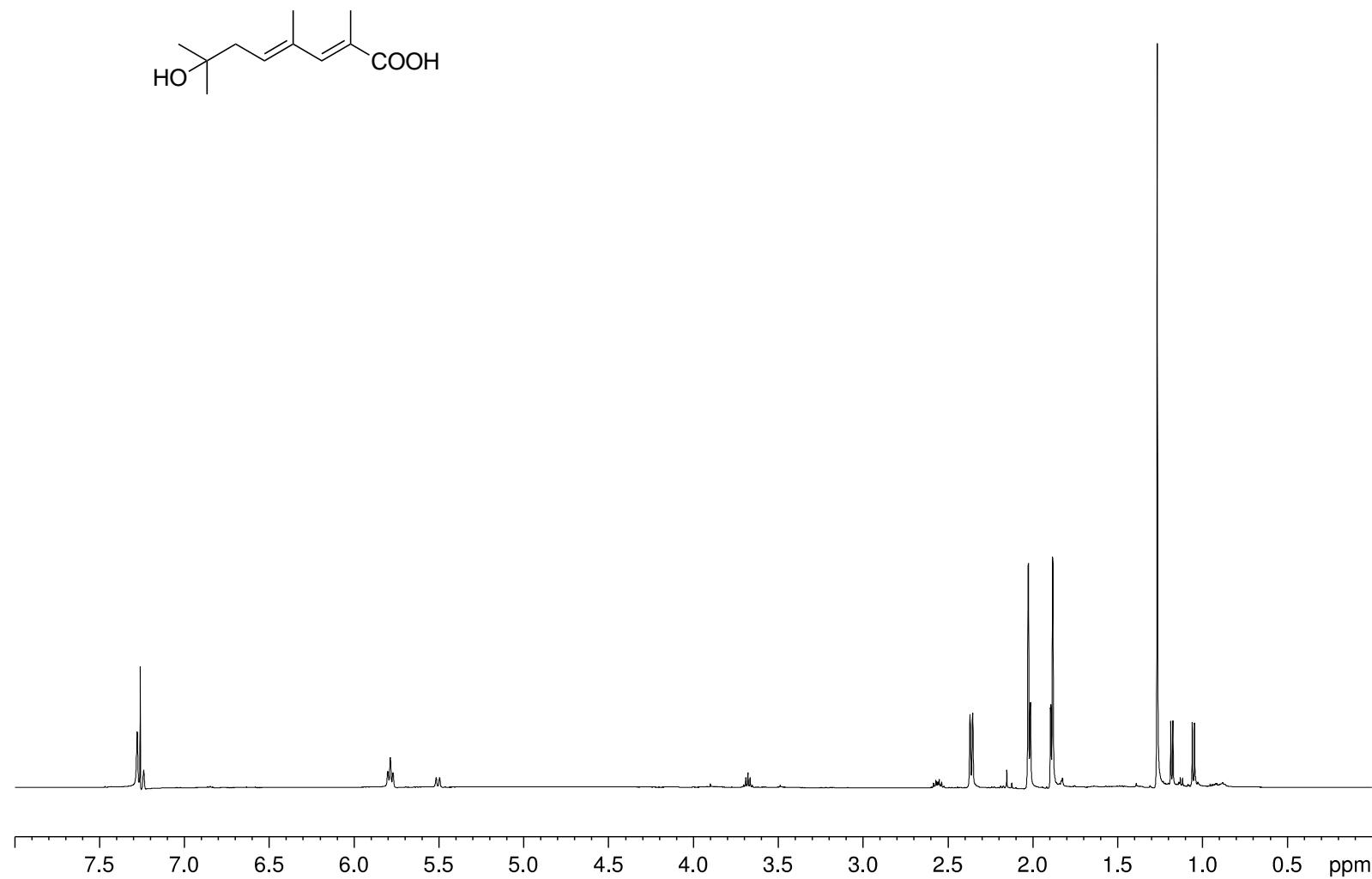


Figure S28. ^{13}C NMR spectrum of **5** (125 MHz, CDCl_3).

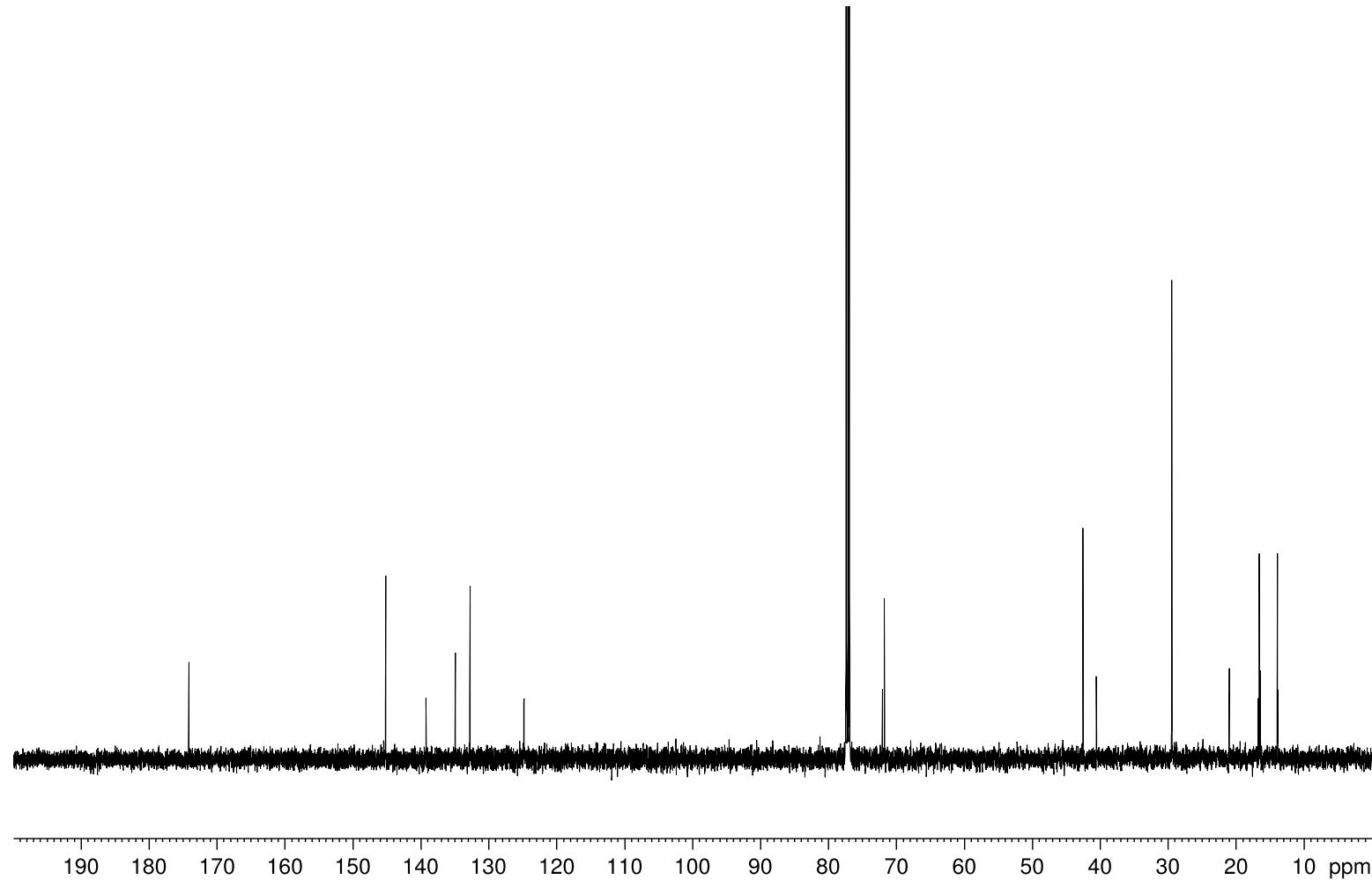


Figure S29. ^1H - ^1H COSY spectrum of **5** (500 MHz, CDCl_3).

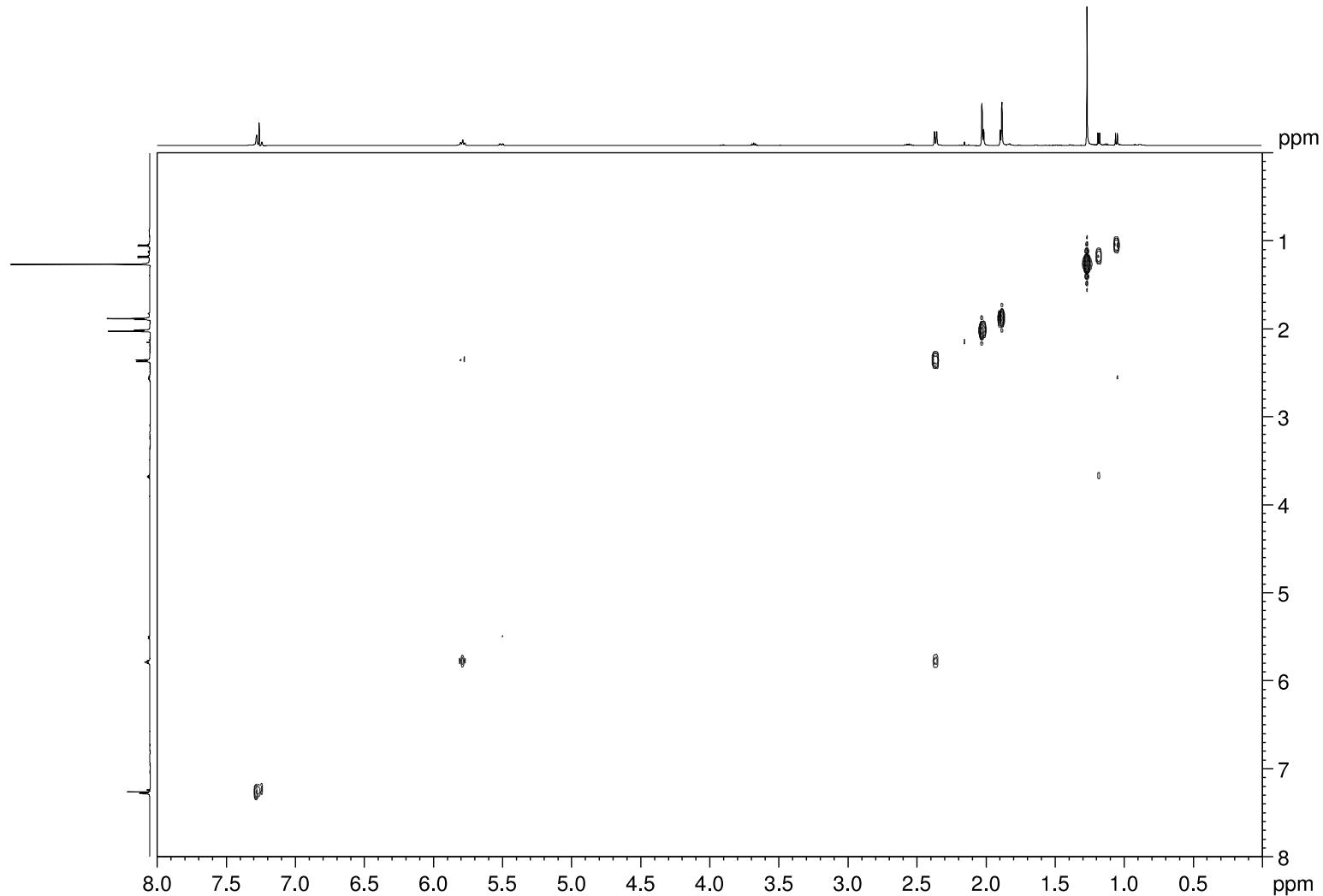


Figure S30. HSQC spectrum of **5** (500 MHz, CDCl_3).

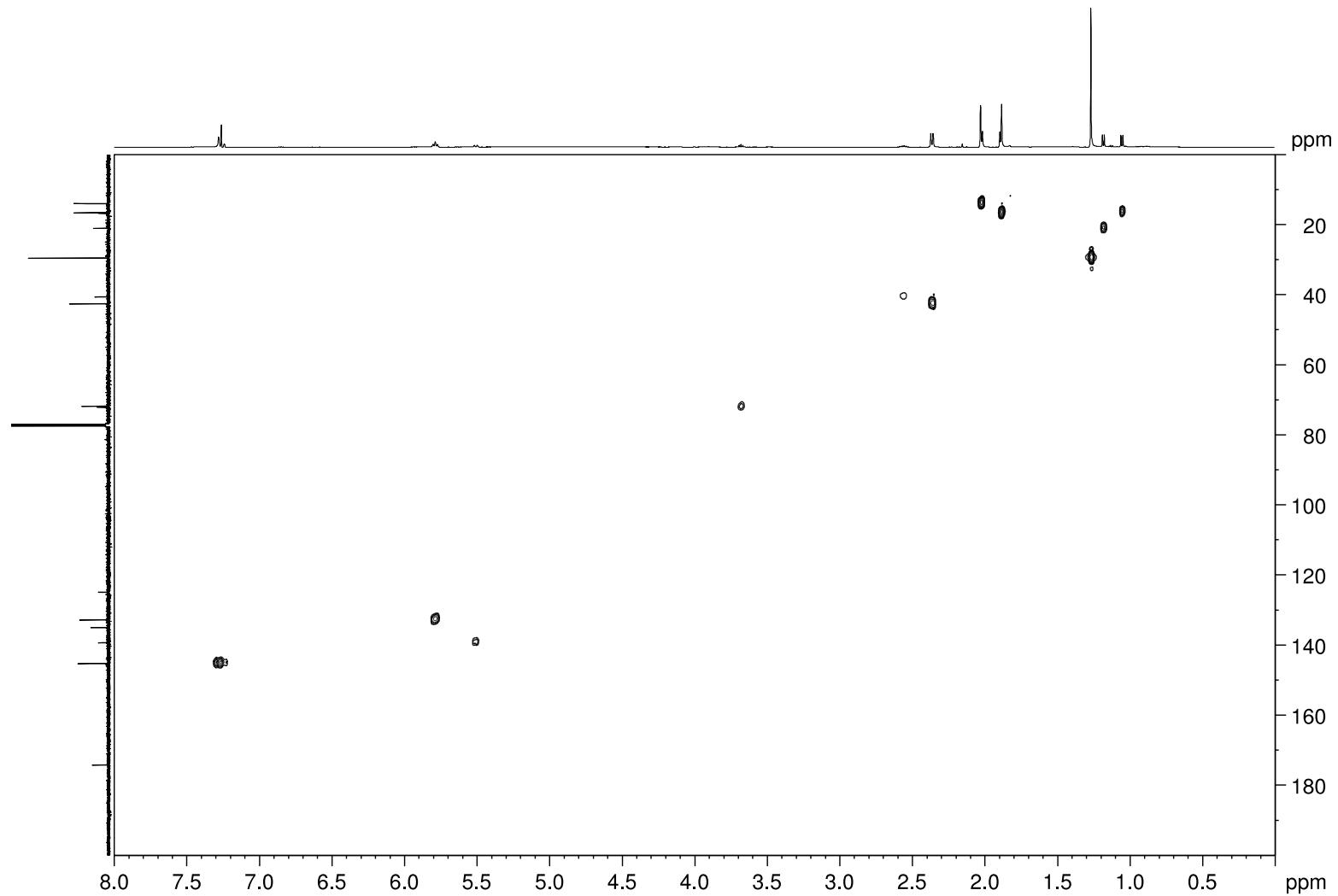


Figure S31. HMBC spectrum of **5** (500 MHz, CDCl_3).

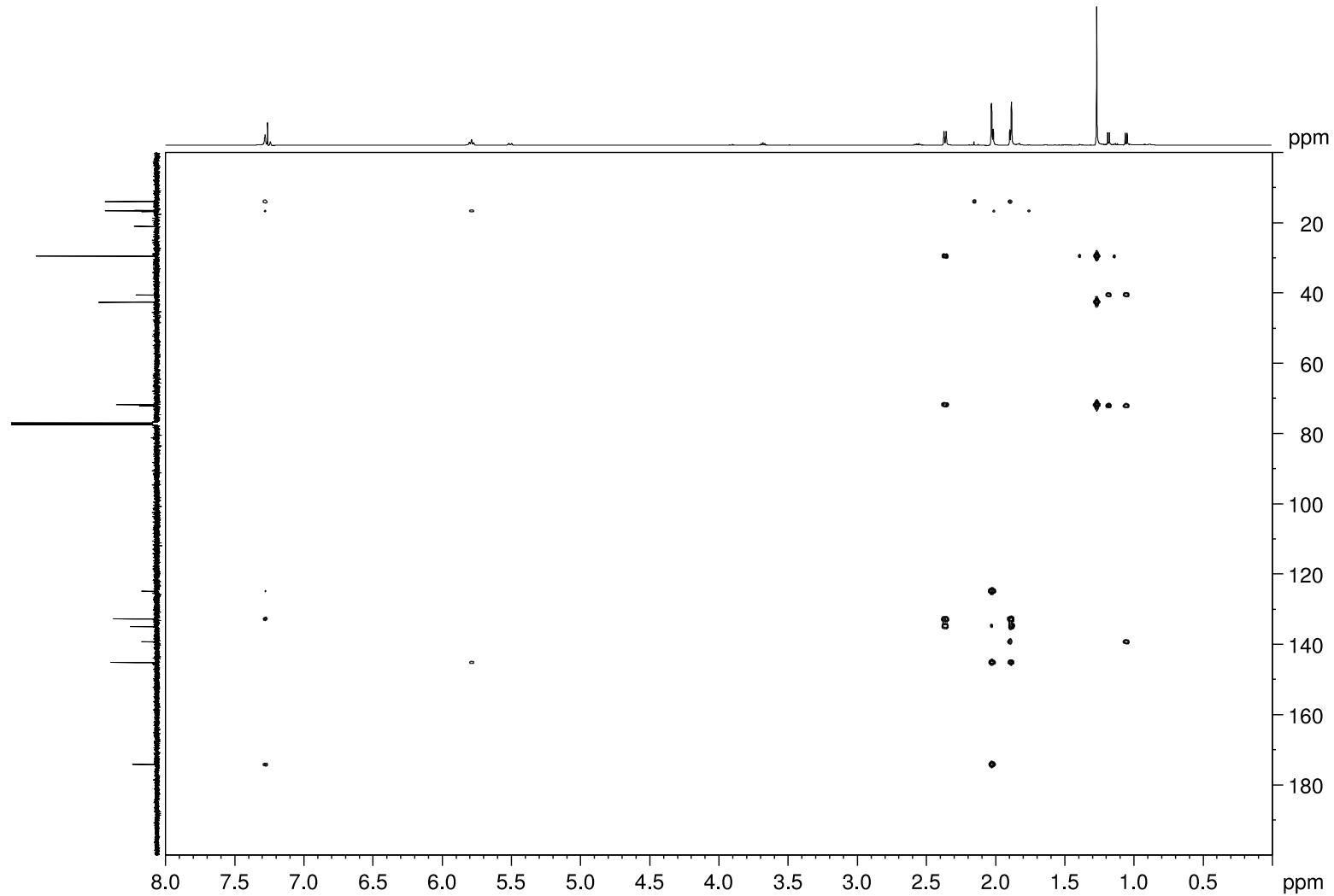


Figure S32. NOESY spectrum of **5** (500 MHz, CDCl_3).

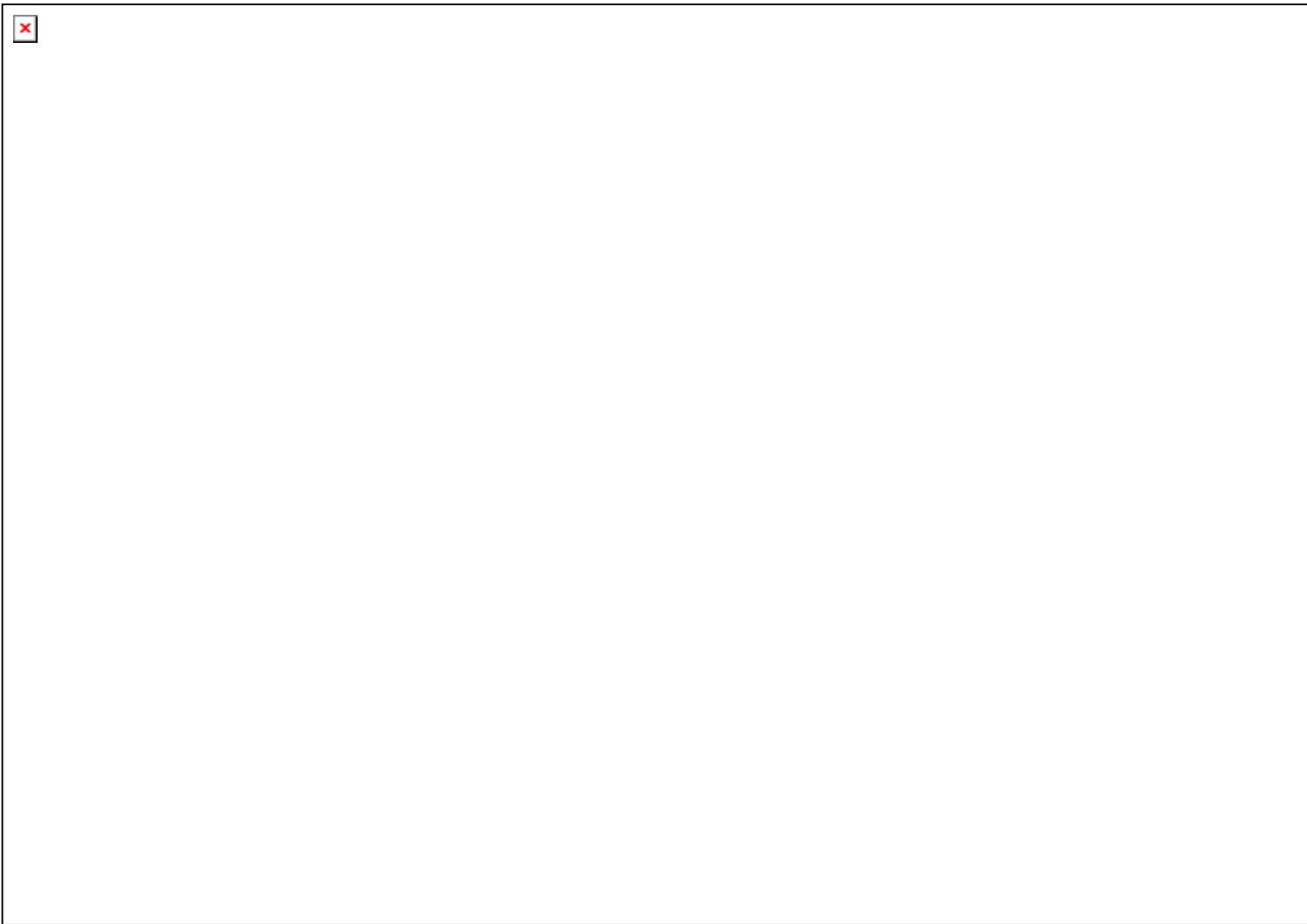


Figure S33. ^1H NMR spectrum of compound **6** (500 MHz, CDCl_3).

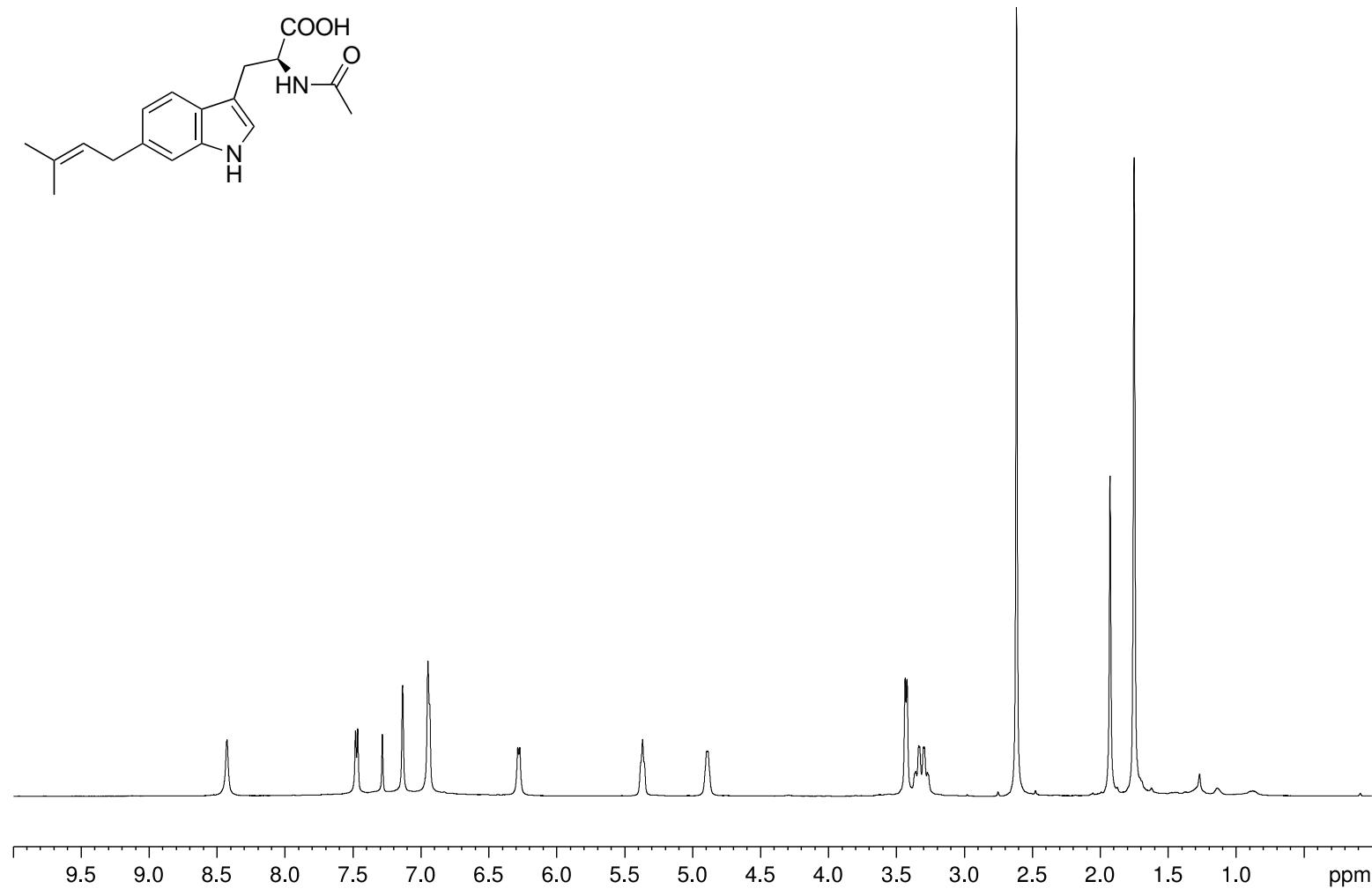


Figure S34. ^{13}C NMR spectrum of **6** (125 MHz, CDCl_3).

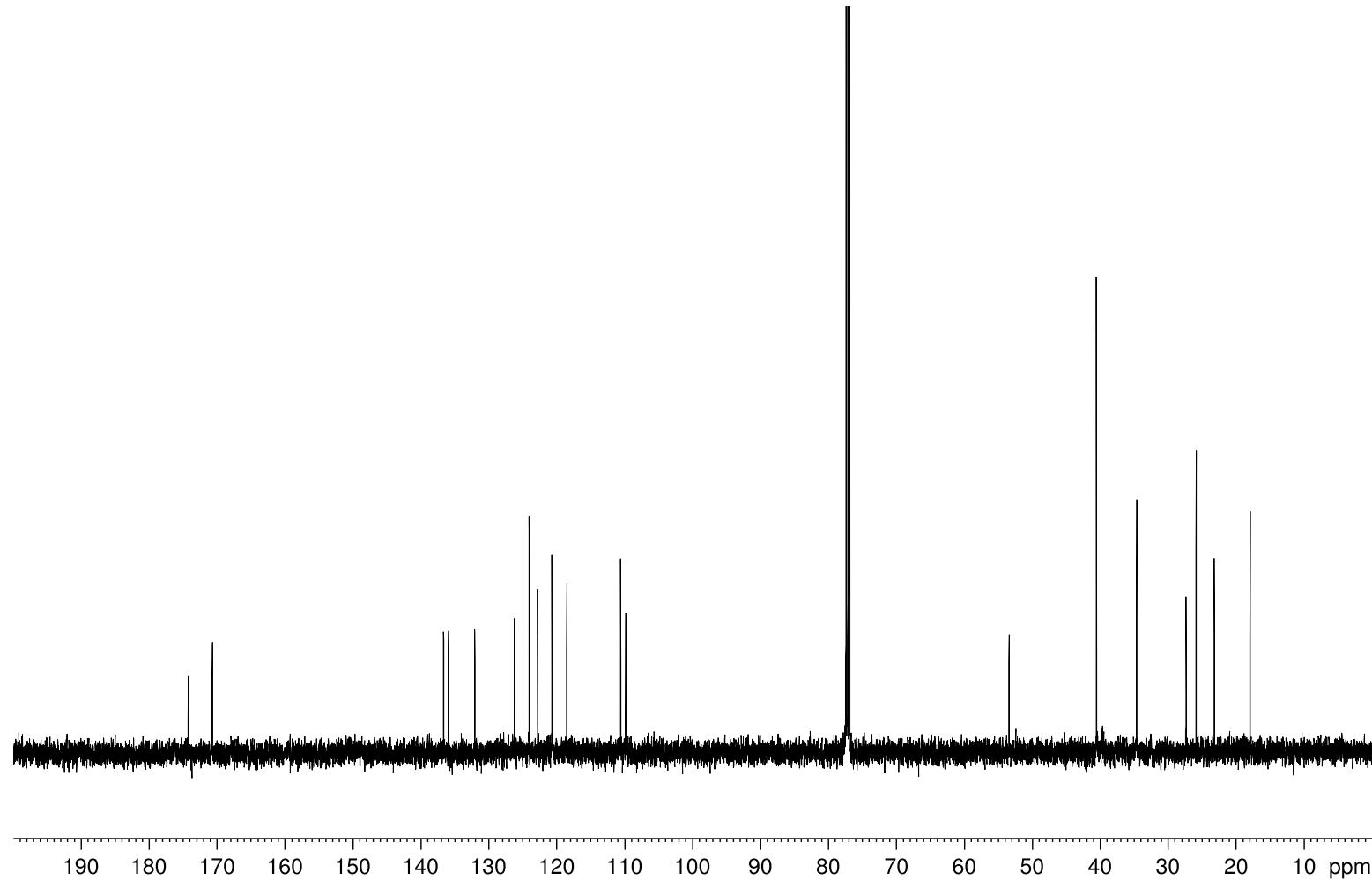


Figure S35. ^1H - ^1H COSY spectrum of **6** (500 MHz, CDCl_3).

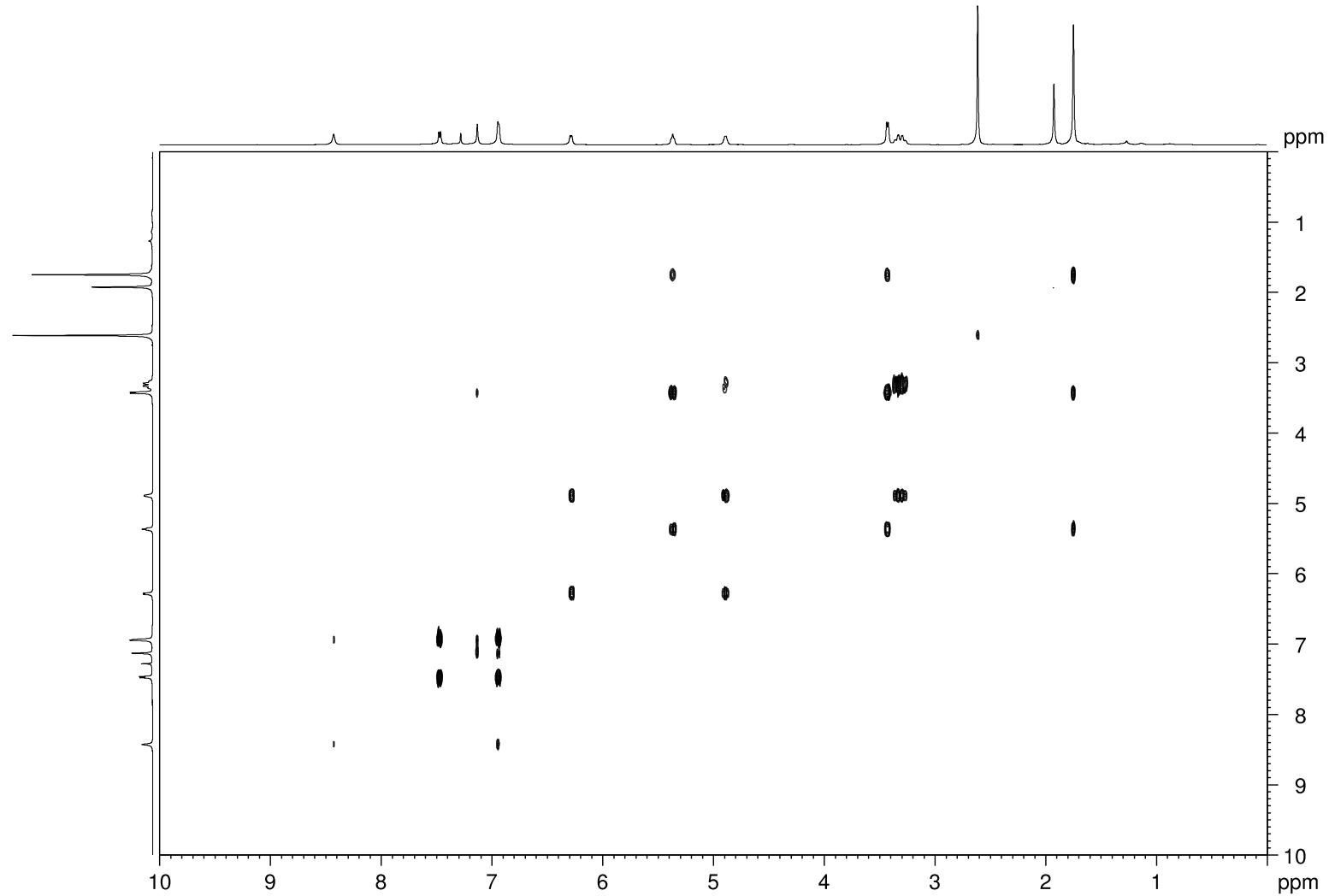


Figure S36. HSQC spectrum of **6** (500 MHz, CDCl_3).

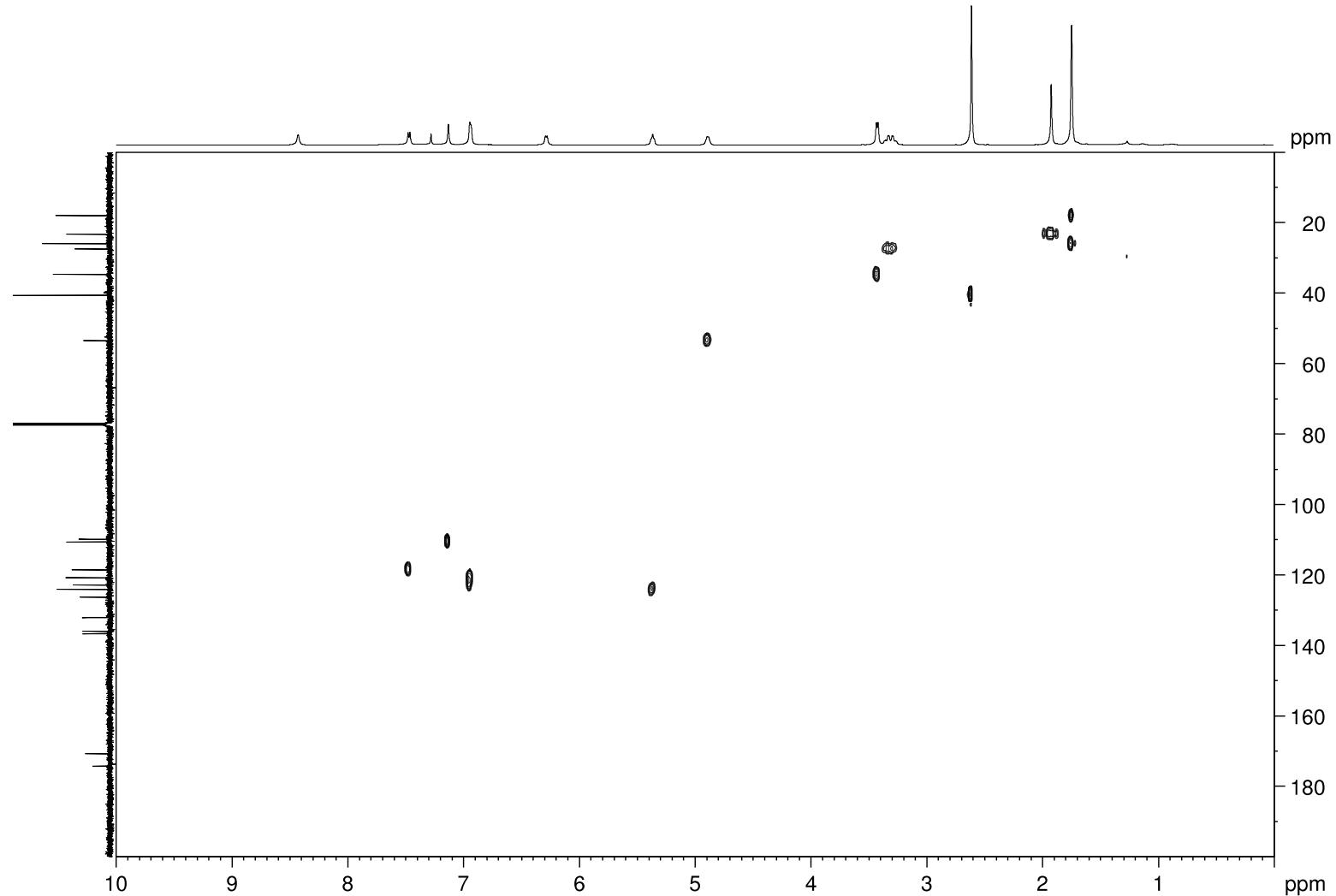


Figure S37. HMBC spectrum of **6** (500 MHz, CDCl_3).

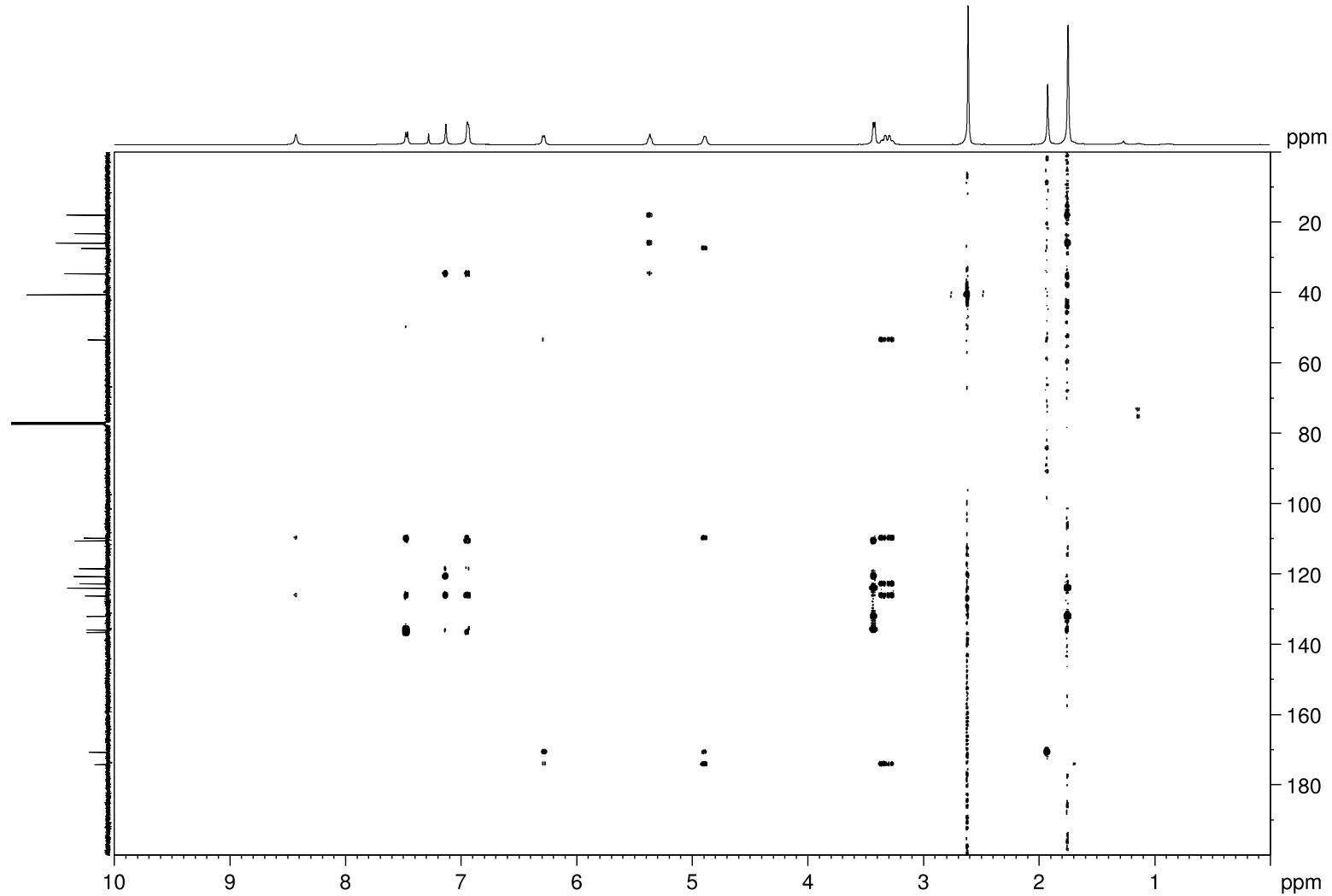


Figure S38. ^1H NMR spectrum of **6a** (500 MHz, $\text{DMSO}-d_6$).

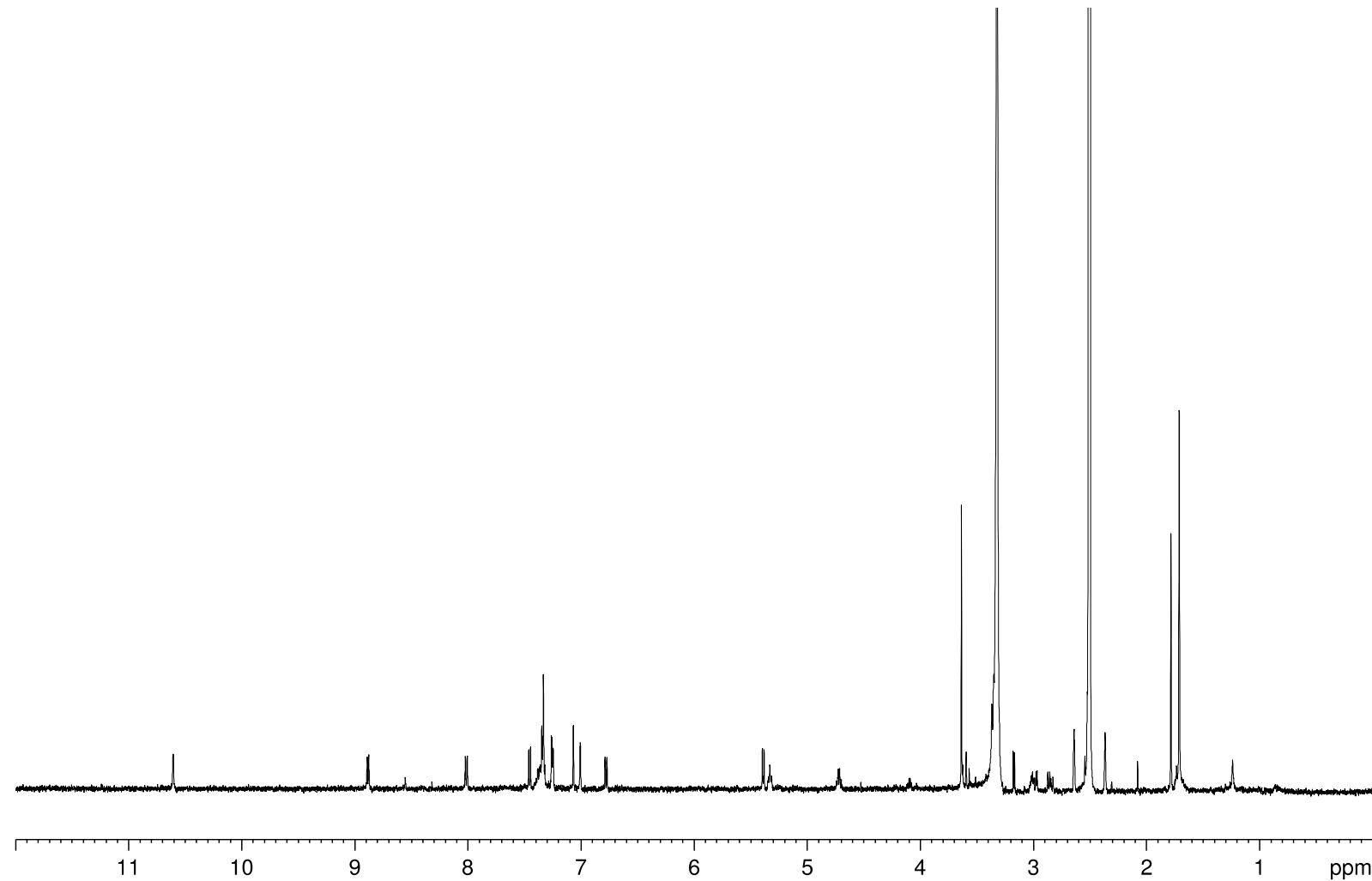


Figure S39. ^1H - ^1H COSY spectrum of **6a** (500 MHz, $\text{DMSO}-d_6$).

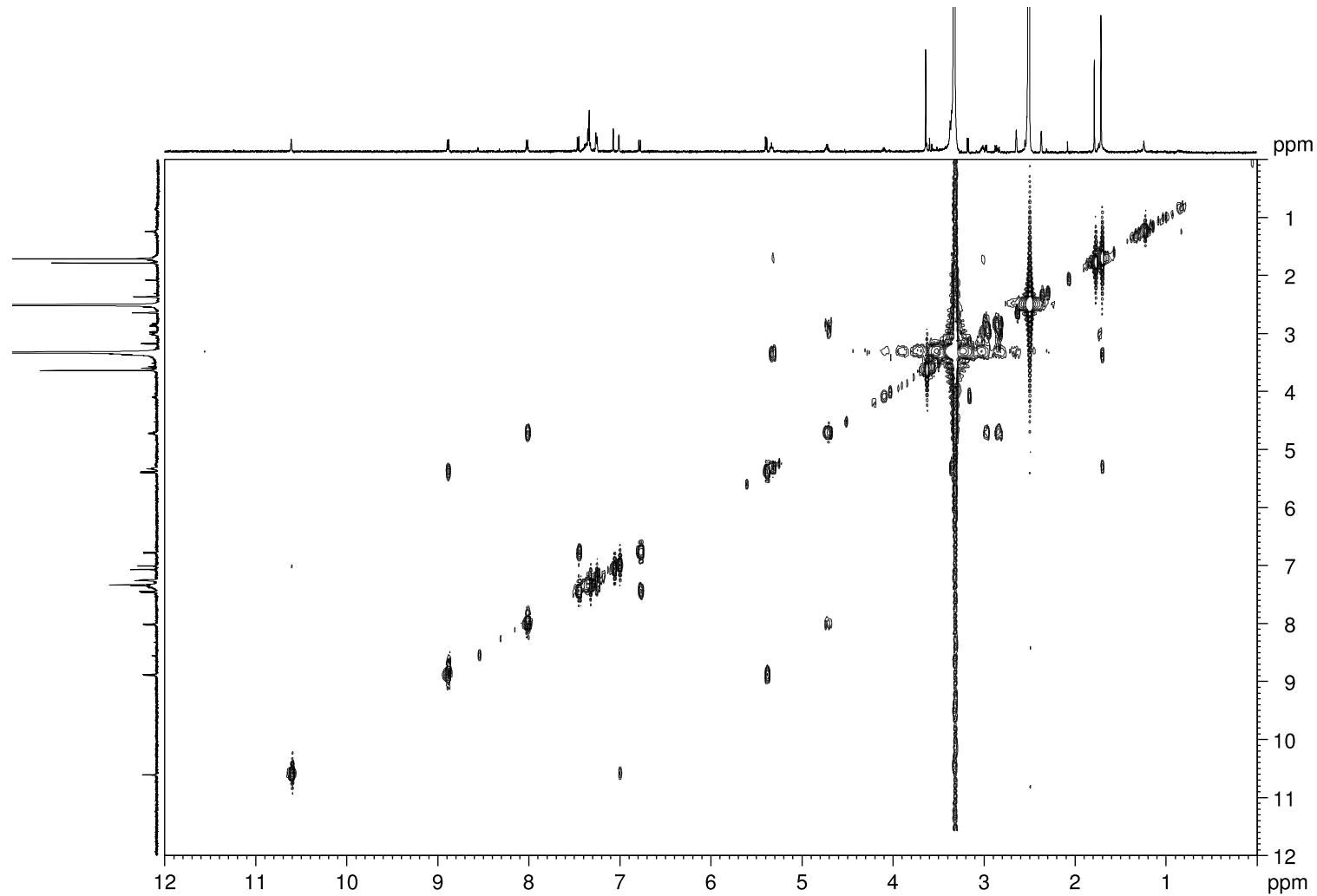


Figure S40. HSQC spectrum of **6a** (500 MHz, DMSO-*d*₆).

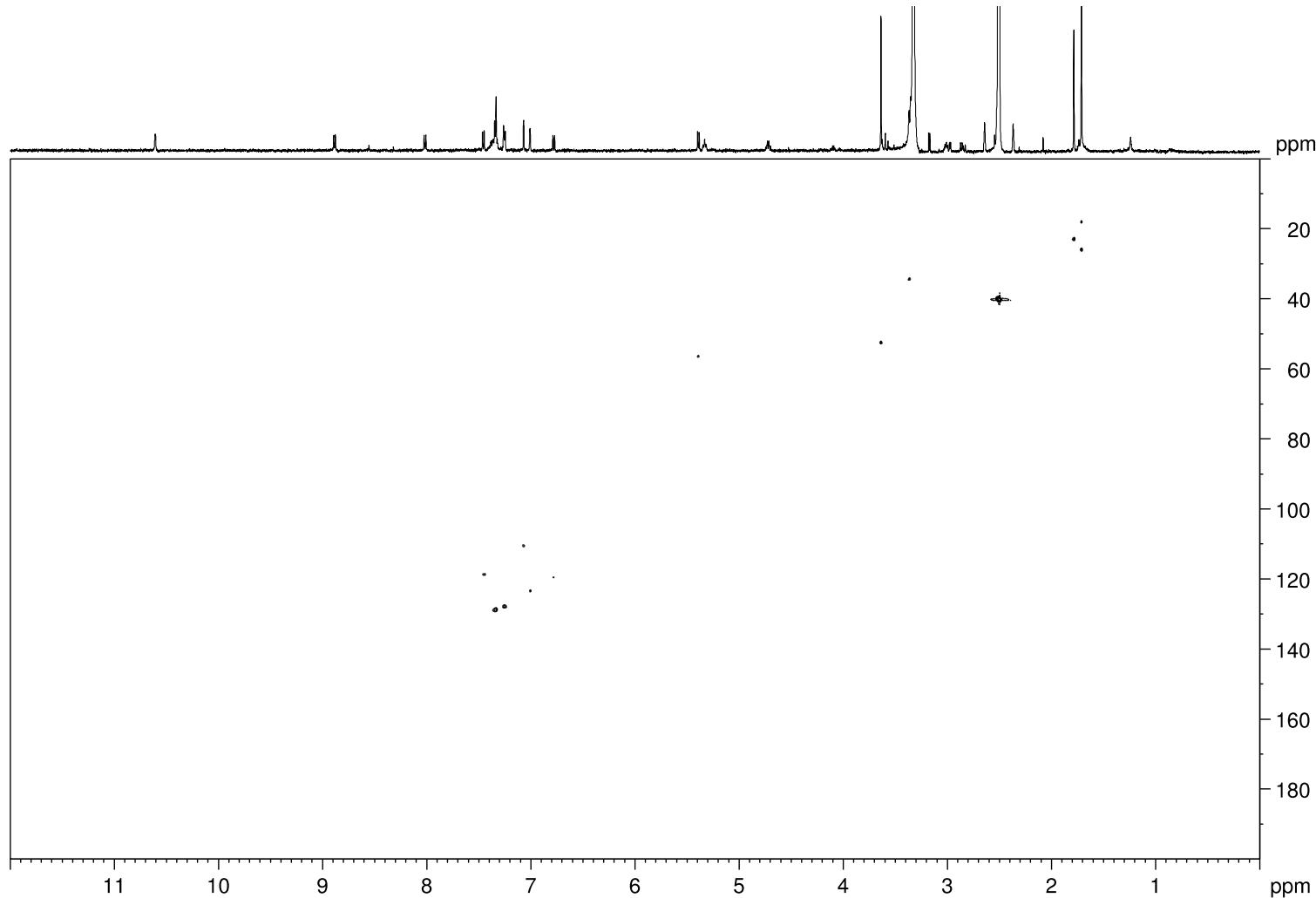


Figure S41. HMBC spectrum of **6a** (500 MHz, DMSO-*d*₆).

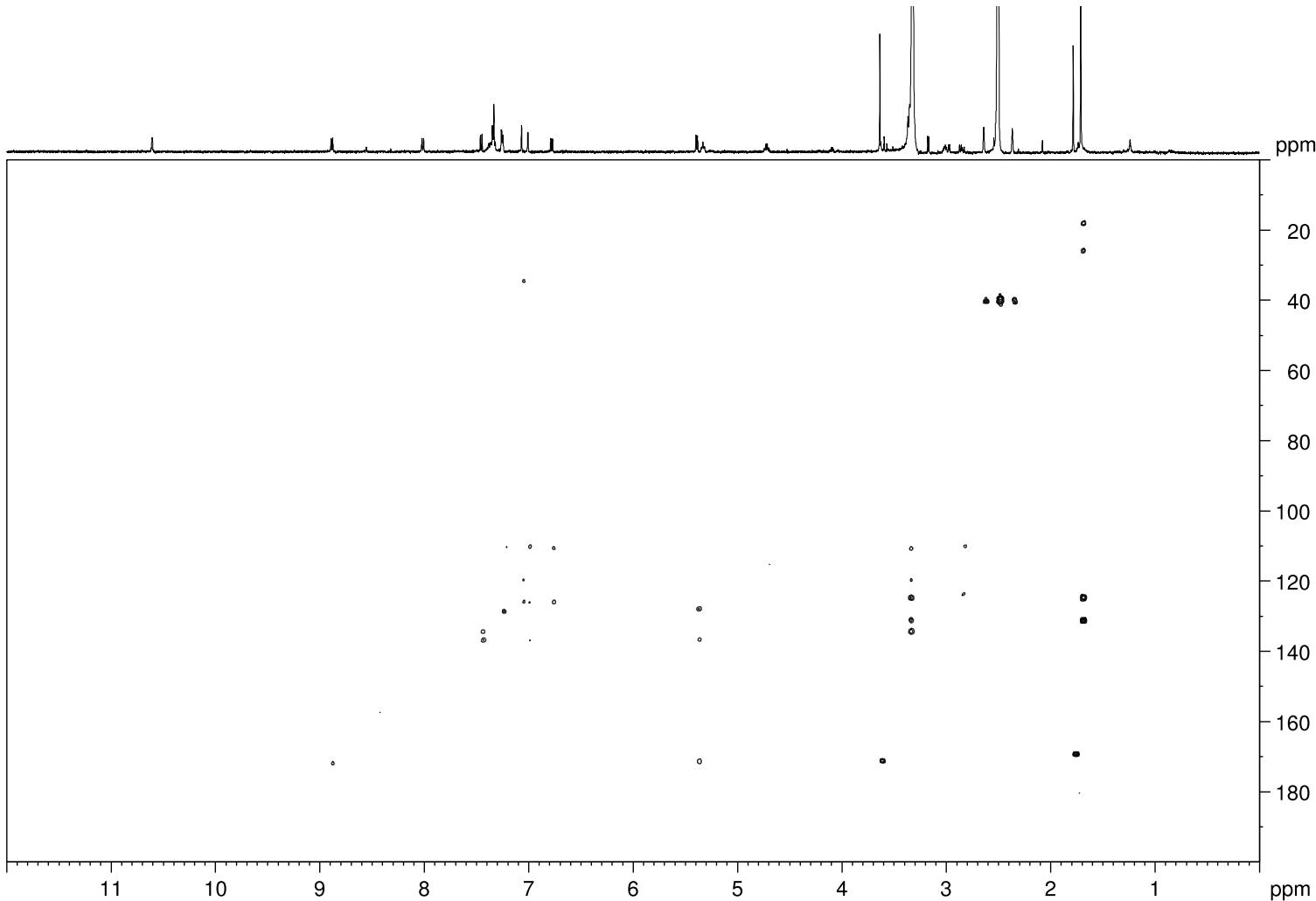


Figure S42. ^1H NMR spectrum of **6b** (500 MHz, $\text{DMSO}-d_6$).

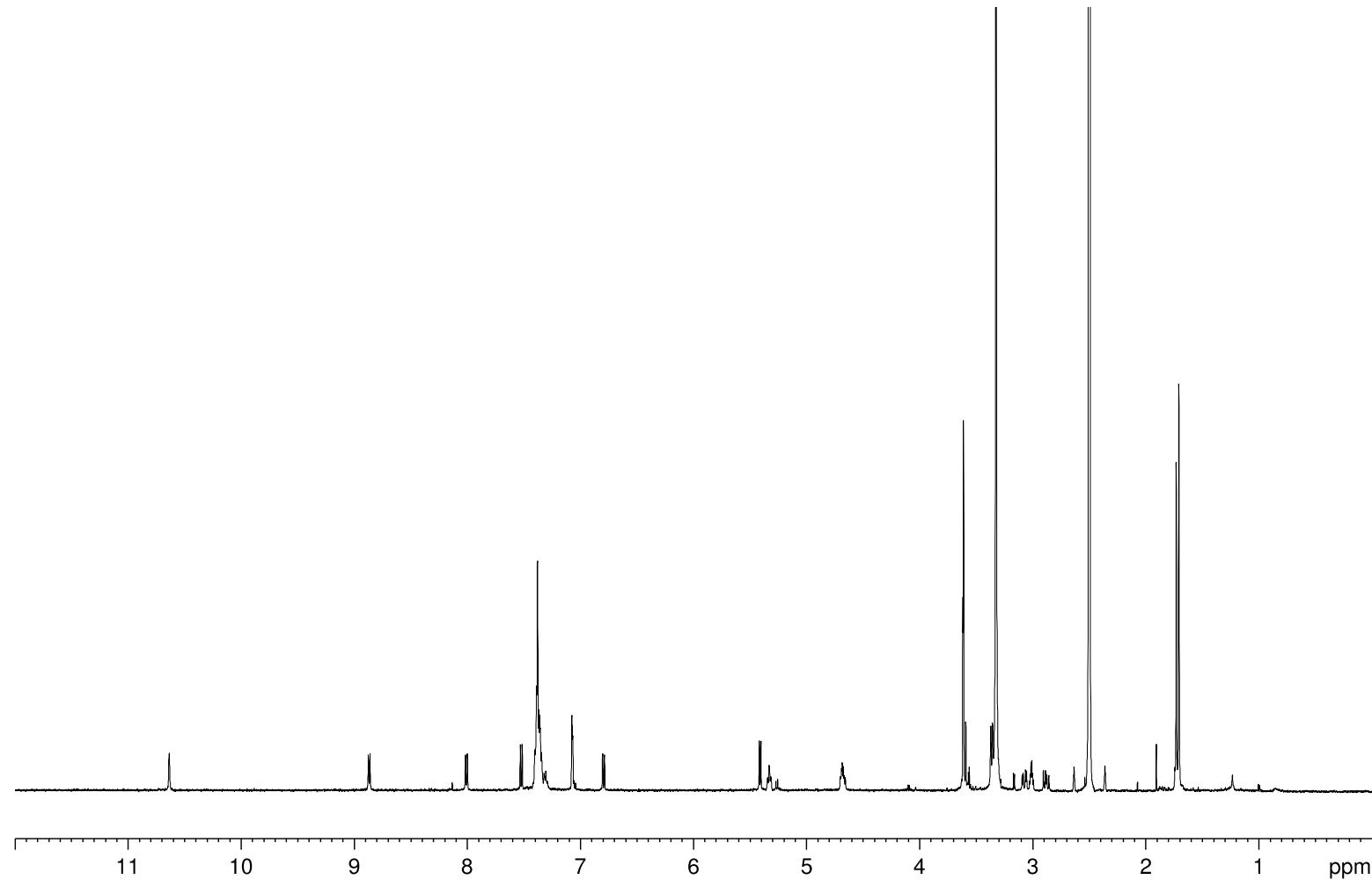


Figure S43. ^1H - ^1H COSY spectrum of **6b** (500 MHz, $\text{DMSO}-d_6$).

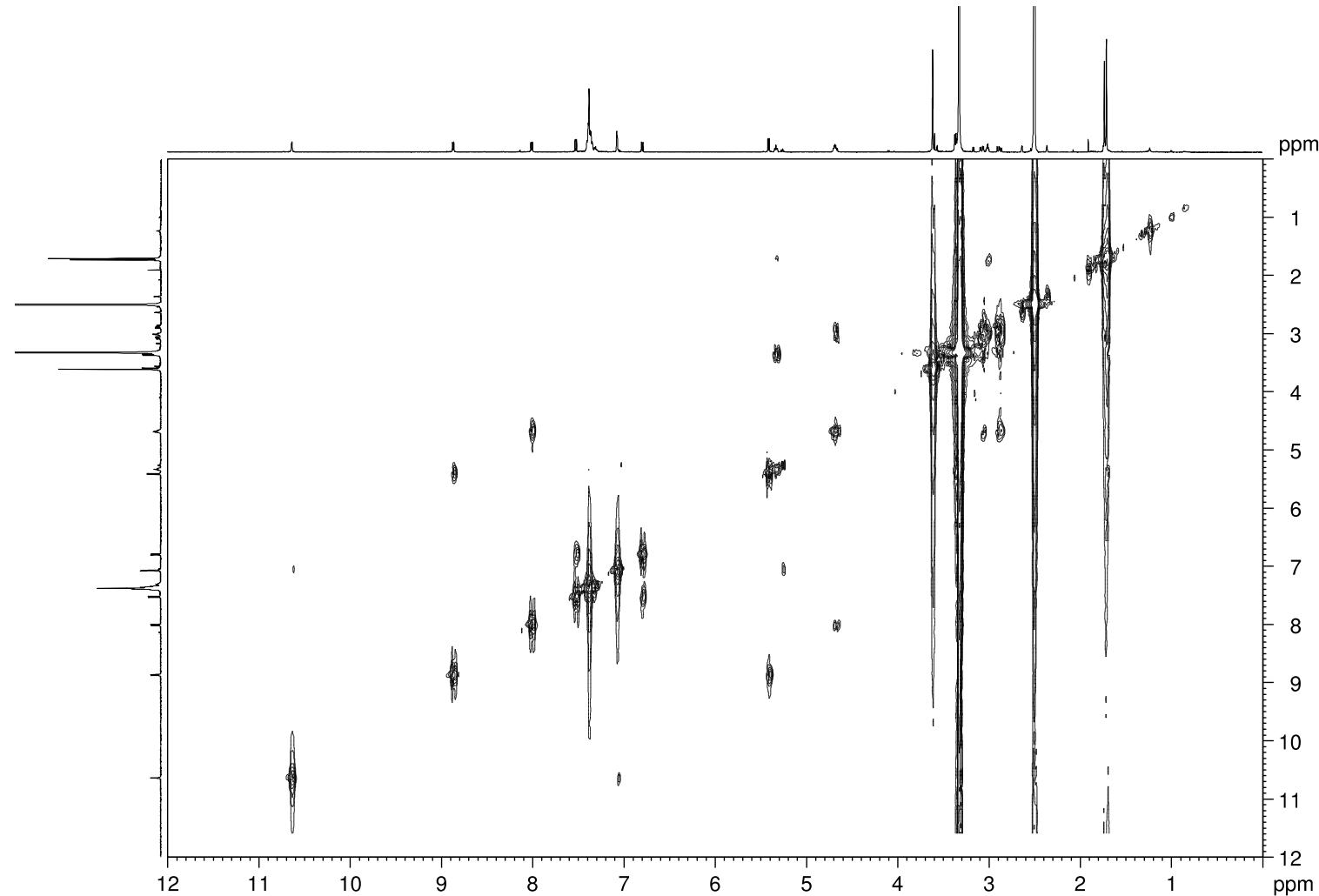


Figure S44. HSQC spectrum of **6b** (500 MHz, $\text{DMSO}-d_6$).

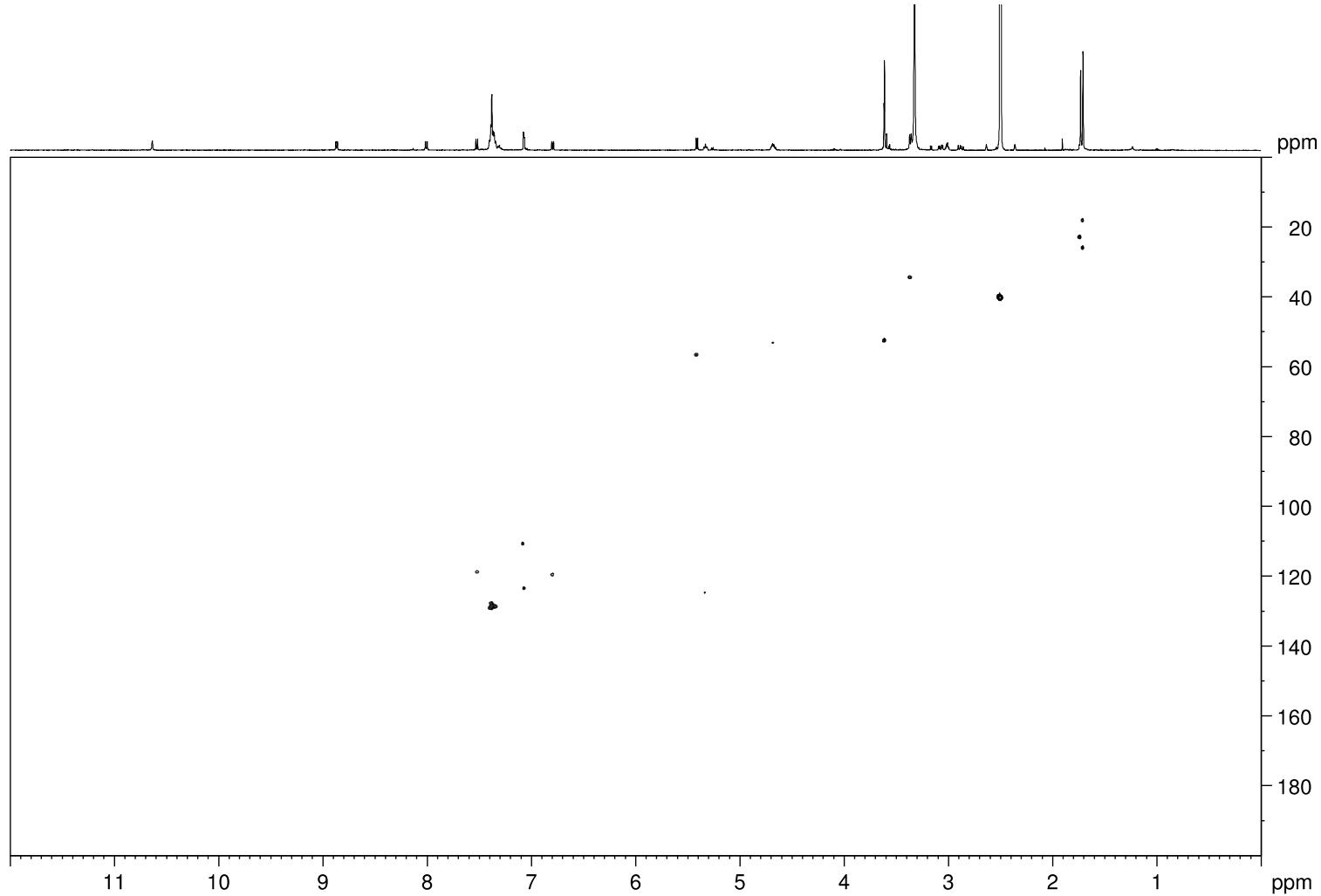


Figure S45. HMBC spectrum of **6b** (500 MHz, DMSO-*d*₆).

