

Supporting Information

NMR Spectral Charts.....	S2
¹ H and ¹³ C NMR spectral charts for polycyclic indoles 4a-i	S2
¹ H and ¹³ C NMR spectral charts for indole butyramides 7aa-ah,bd,ca,da,eg,fc,fg,ga	S20
¹ H and ¹³ C NMR spectral charts for indolyl hydroxypyrrolone 10a	S50

^1H and ^{13}C NMR spectral charts for 7,9a-diaryl-2,6,9a-tetrahydro-8*H*-indolo[7,6,5-*cd*]indol-8-ones **4a-i**

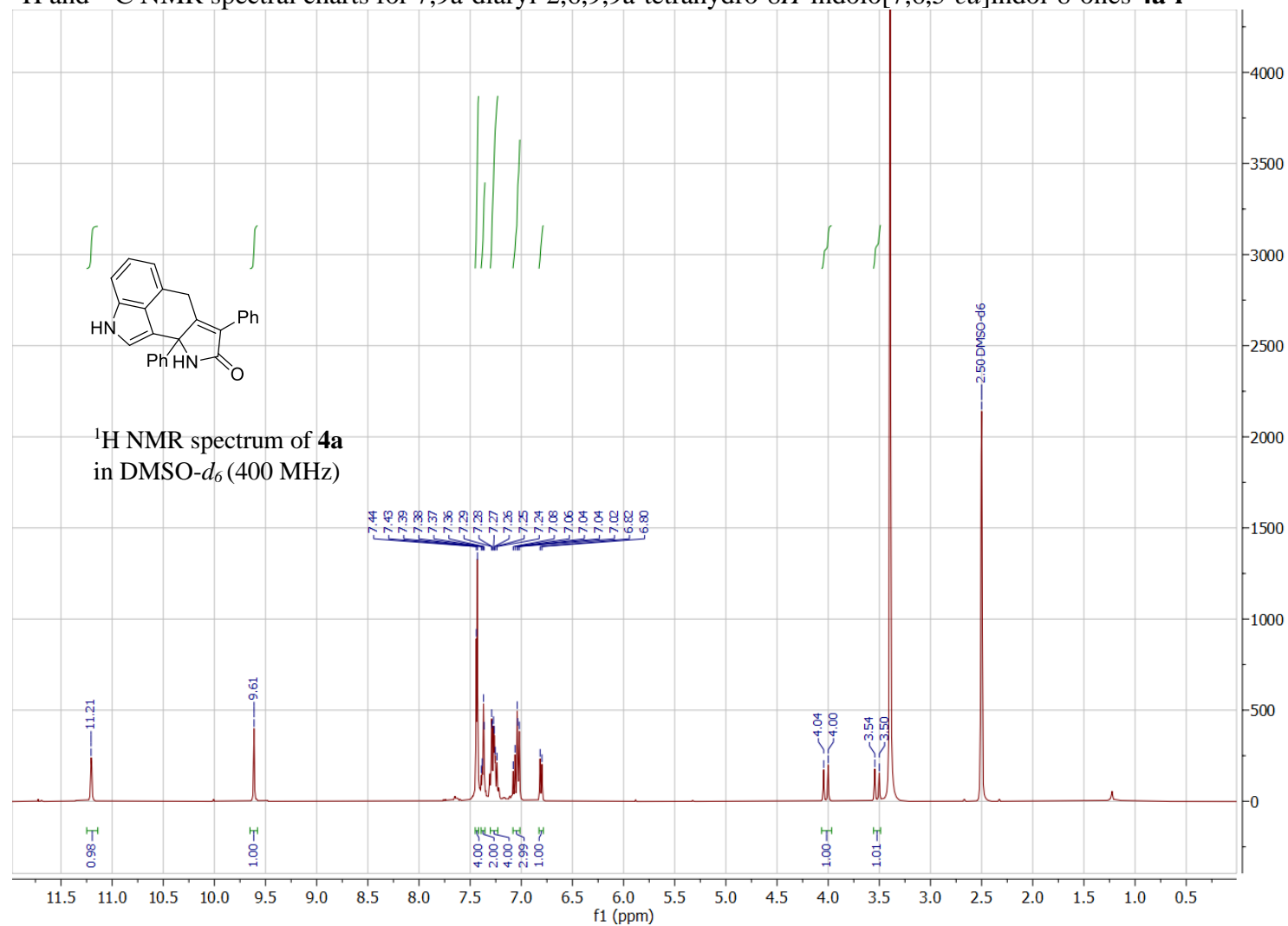


Figure S1. ^1H NMR spectrum of **4a** in $\text{DMSO-}d_6$ (400 MHz)

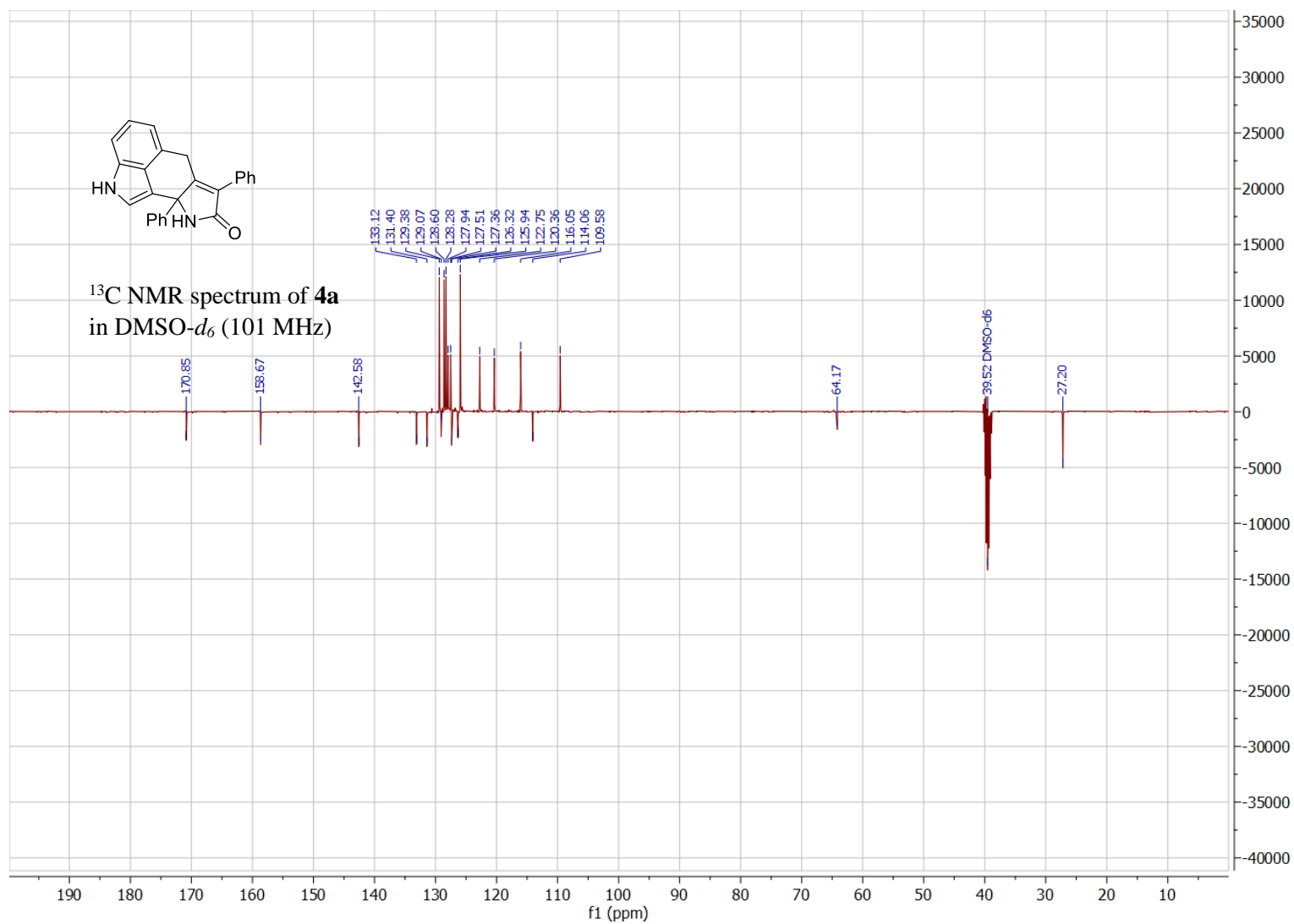


Figure S2. ^{13}C NMR spectrum of **4a** in DMSO- d_6 (101 MHz)

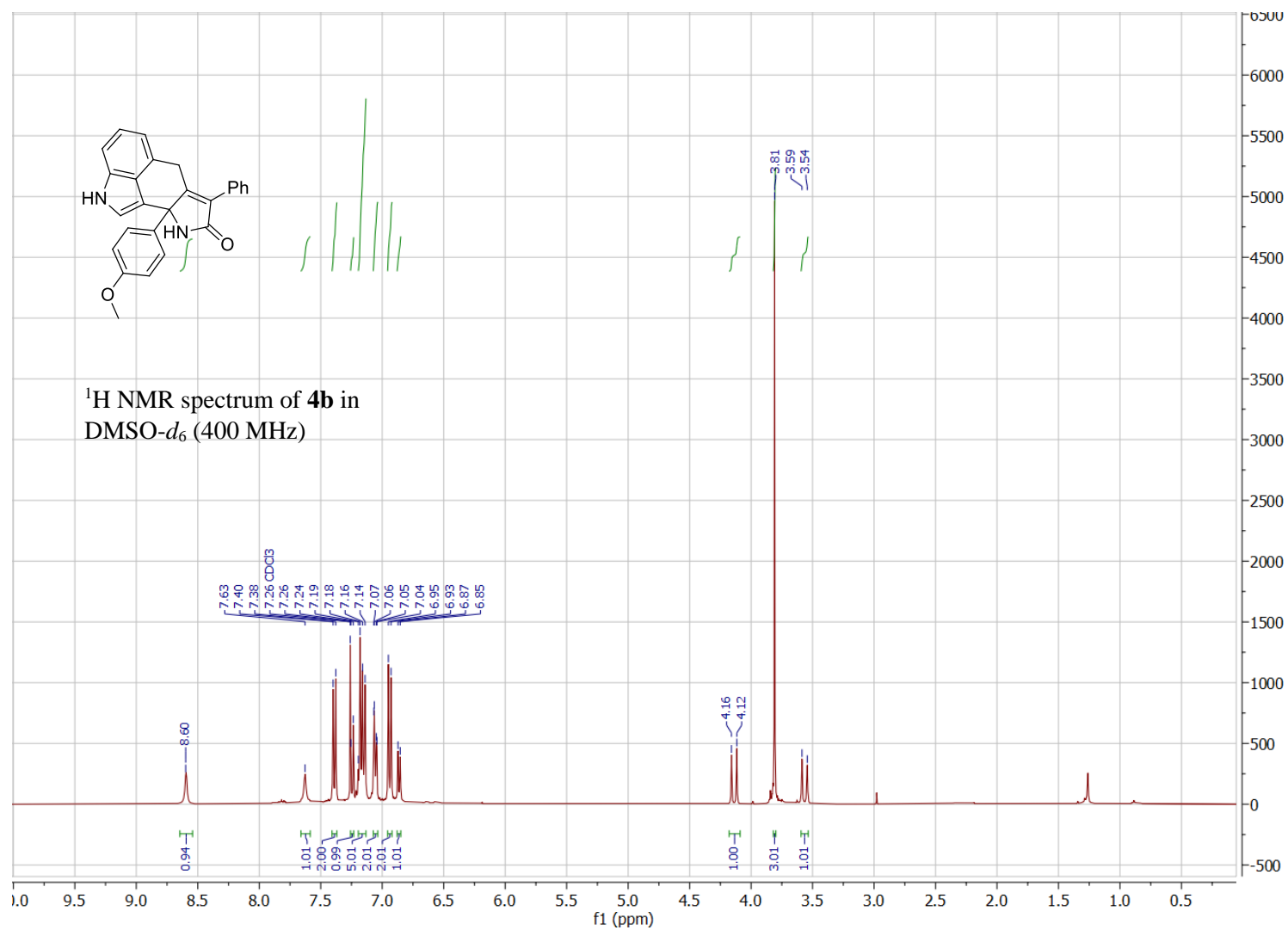


Figure S3. ^1H NMR spectrum of **4b** in DMSO- d_6 (400 MHz)

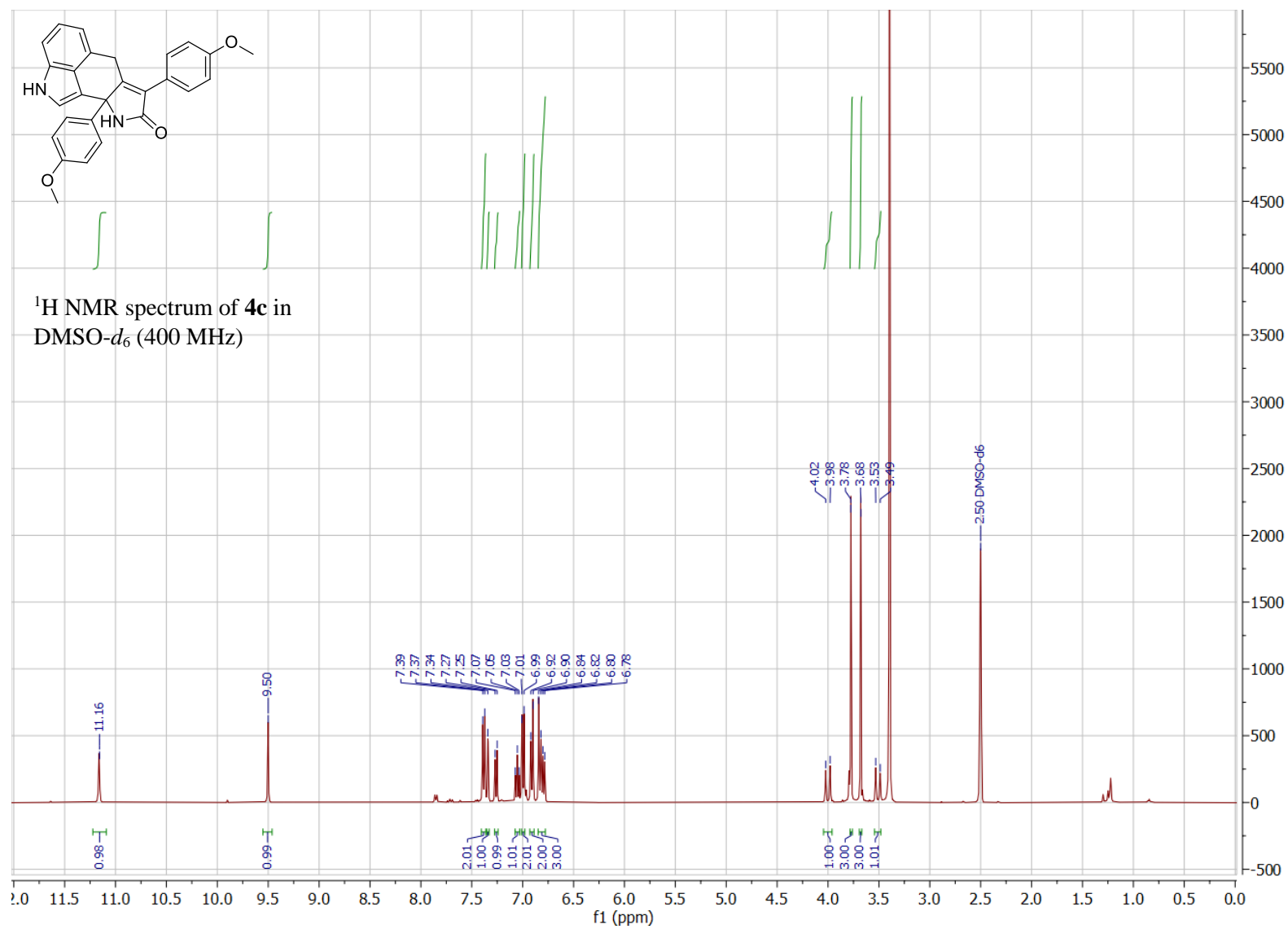


Figure S5. ^1H NMR spectrum of **4c** in DMSO- d_6 (400 MHz)

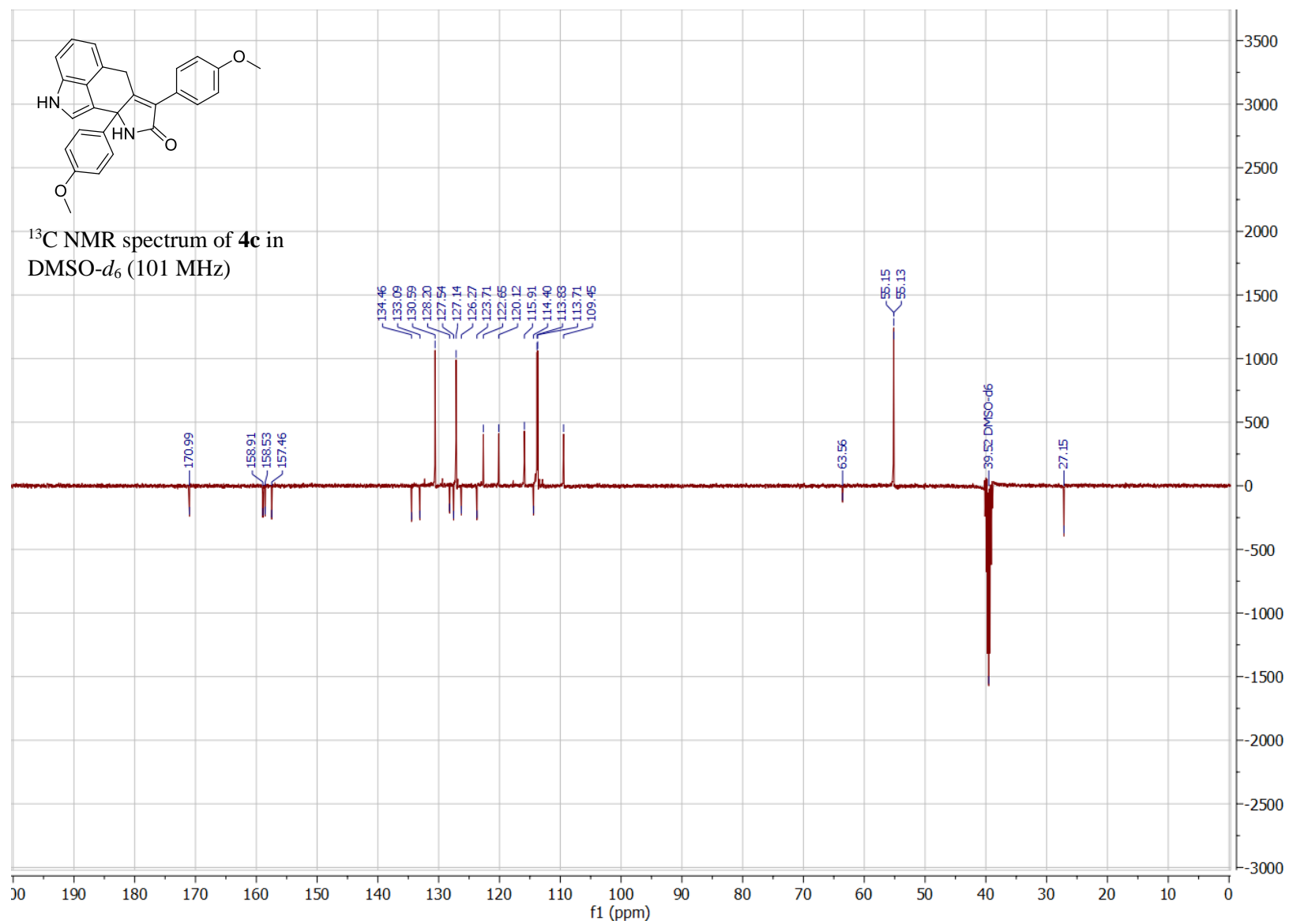


Figure S6. ^{13}C NMR spectrum of **4c** in DMSO- d_6 (101 MHz)

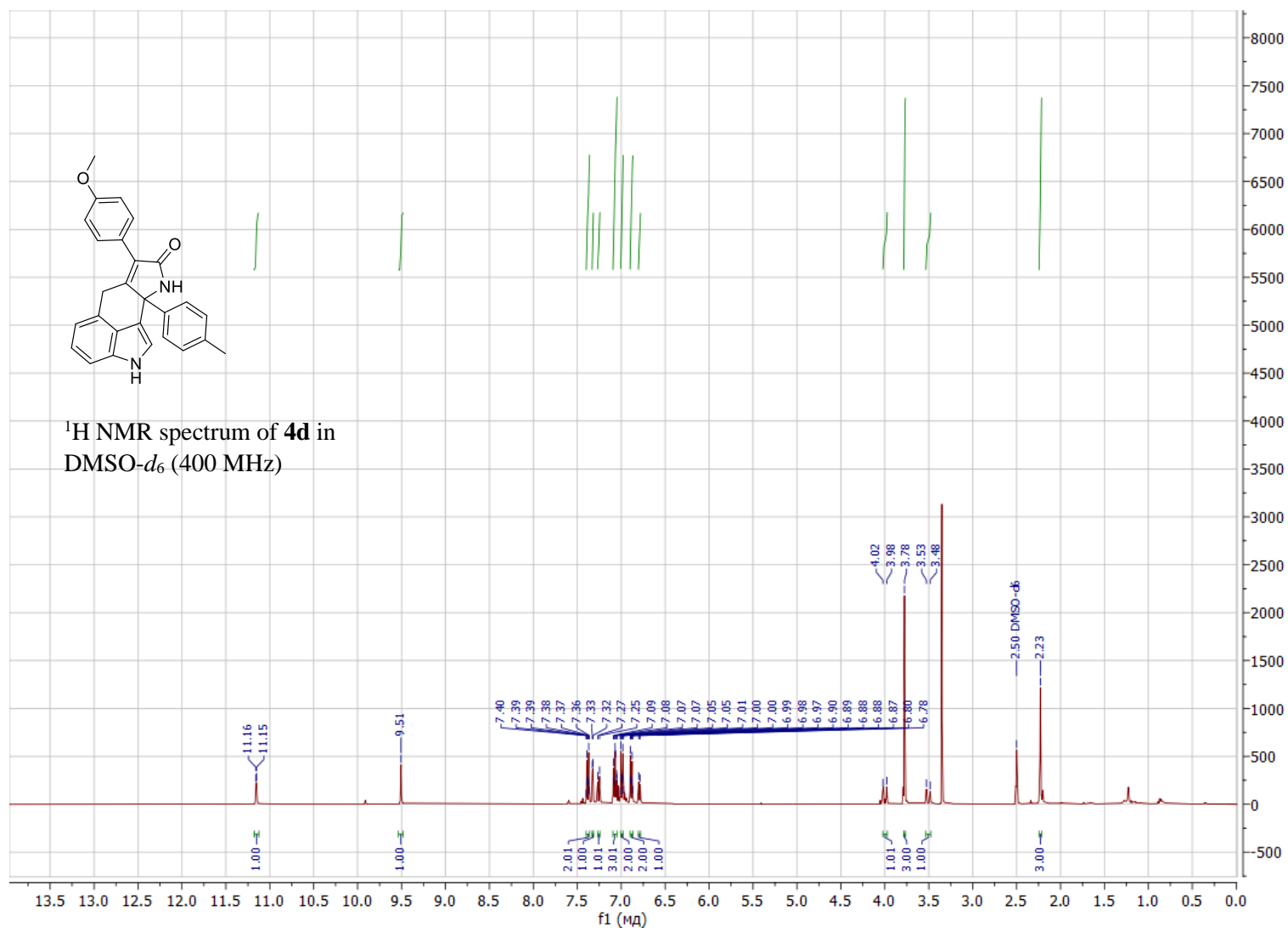


Figure S7: ^1H NMR spectrum of **4d** in DMSO- d_6 (400 MHz)

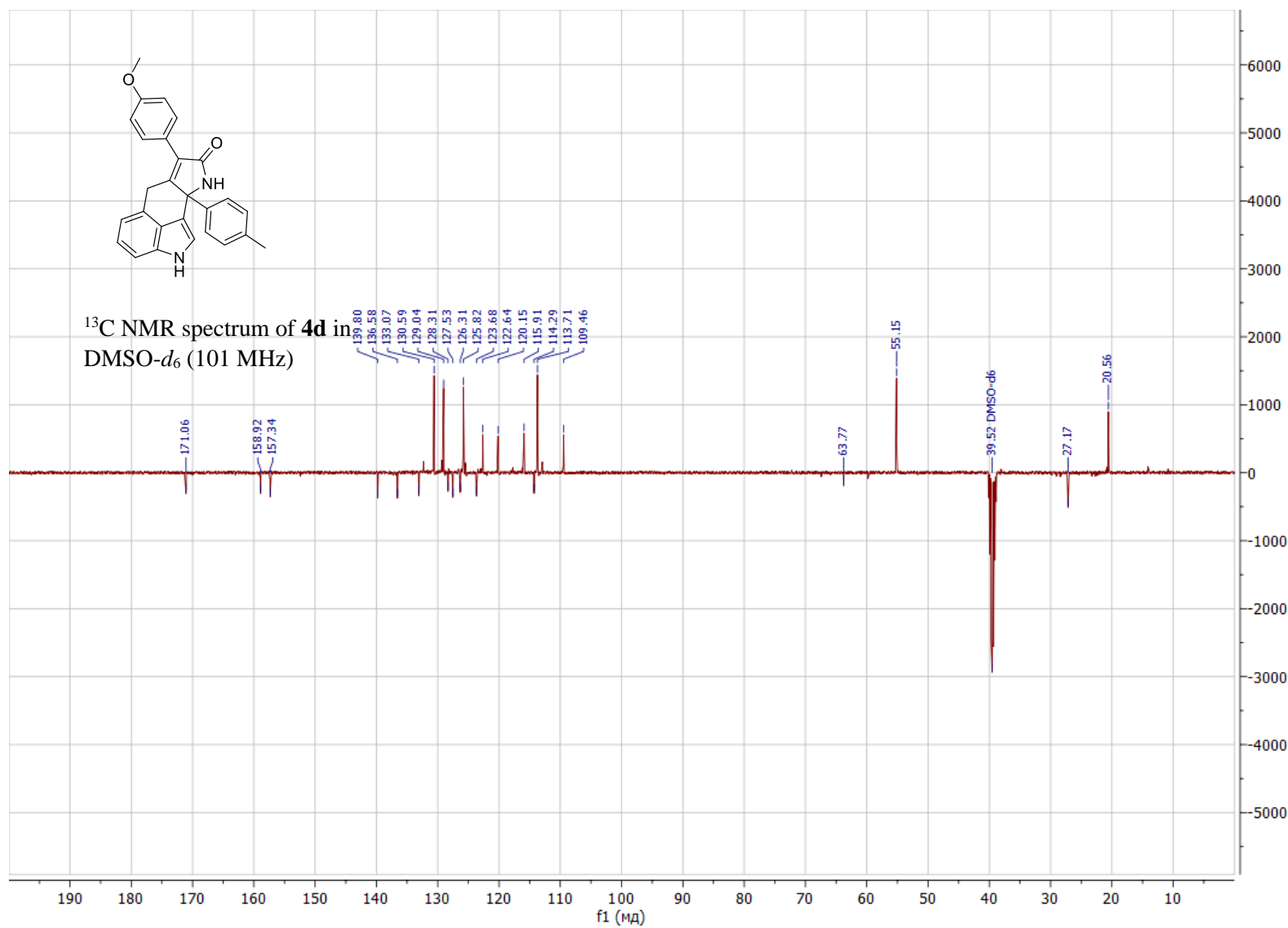


Figure S8. ^{13}C NMR spectrum of **4d** in DMSO- d_6 (101 MHz)

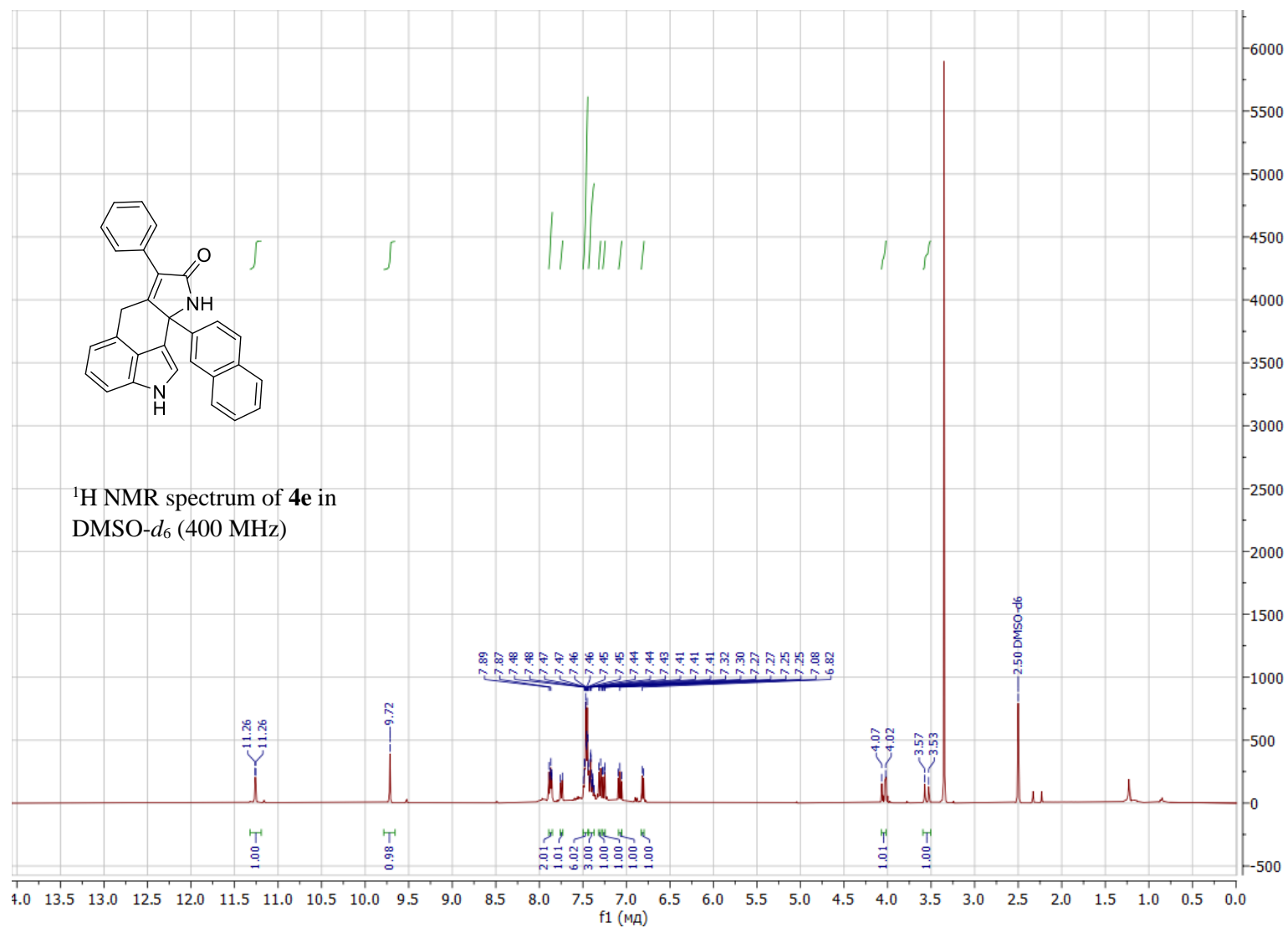


Figure S9: ¹H NMR spectrum of **4e** in DMSO-*d*₆ (400 MHz)

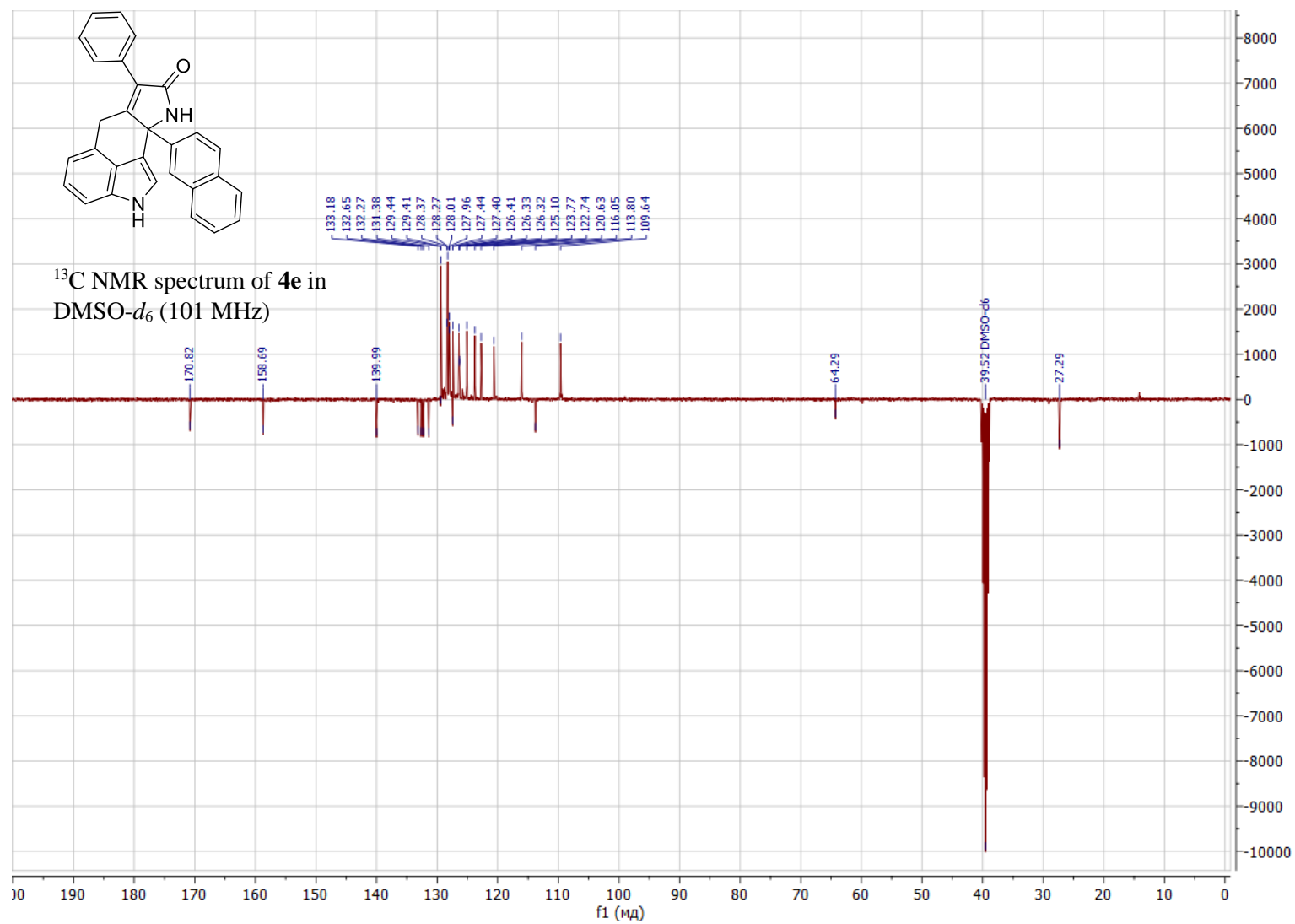


Figure S10. ¹³C NMR spectrum of **4e** in DMSO-*d*₆ (101 MHz)

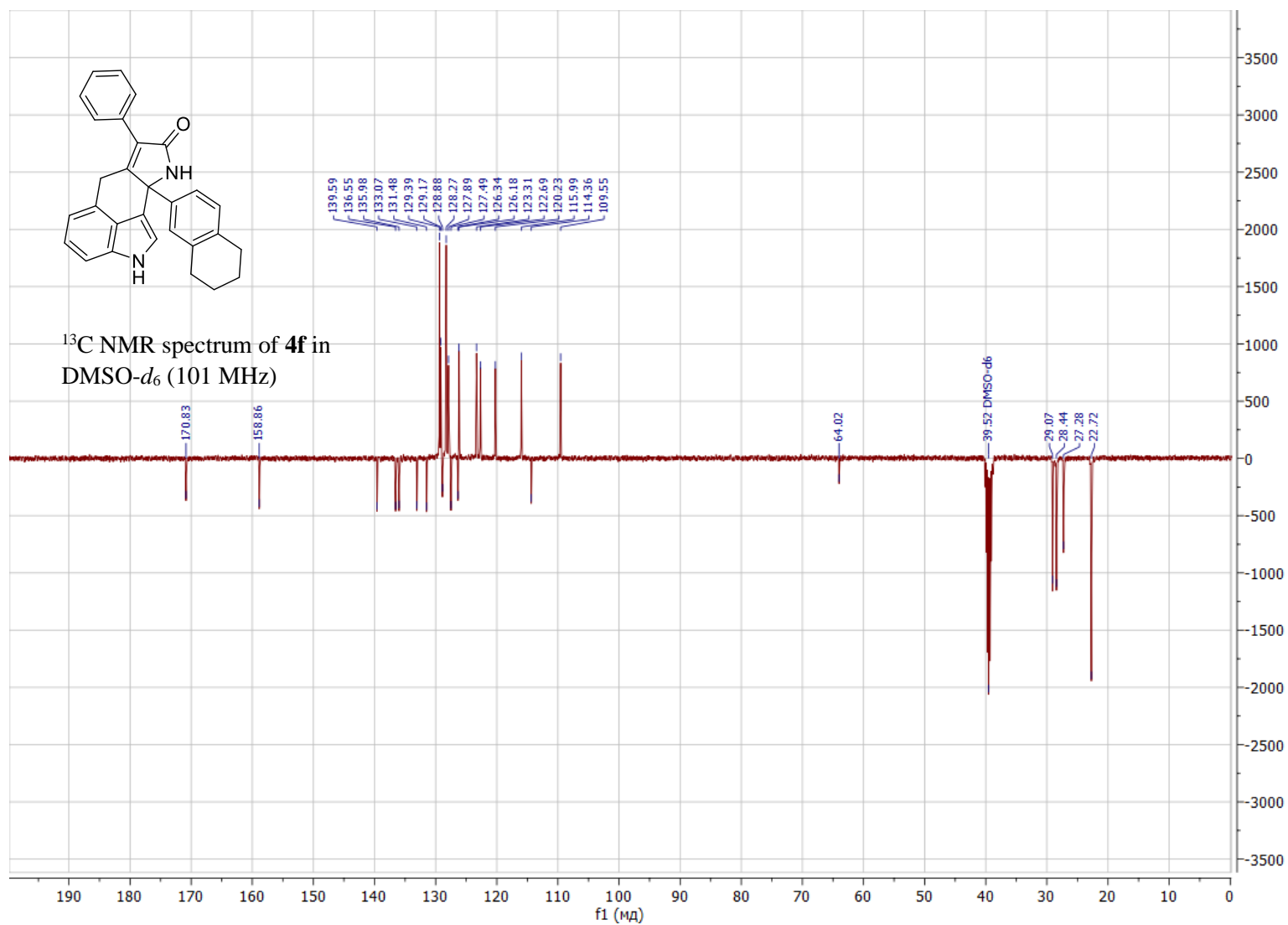


Figure S12. ^{13}C NMR spectrum of **4f** in DMSO- d_6 (101 MHz)

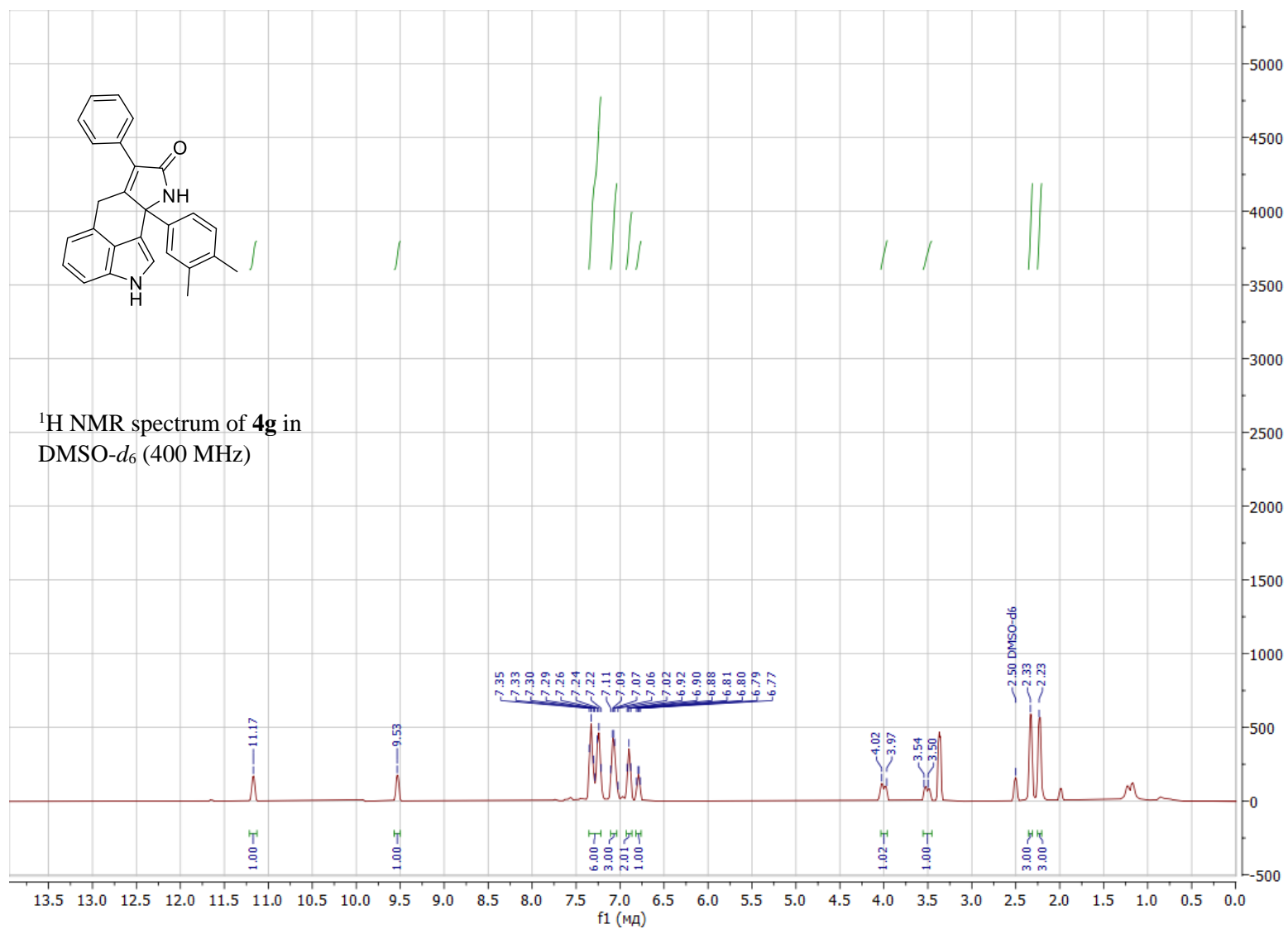


Figure S13. ¹H NMR spectrum of **4g** in DMSO-*d*₆ (400 MHz)

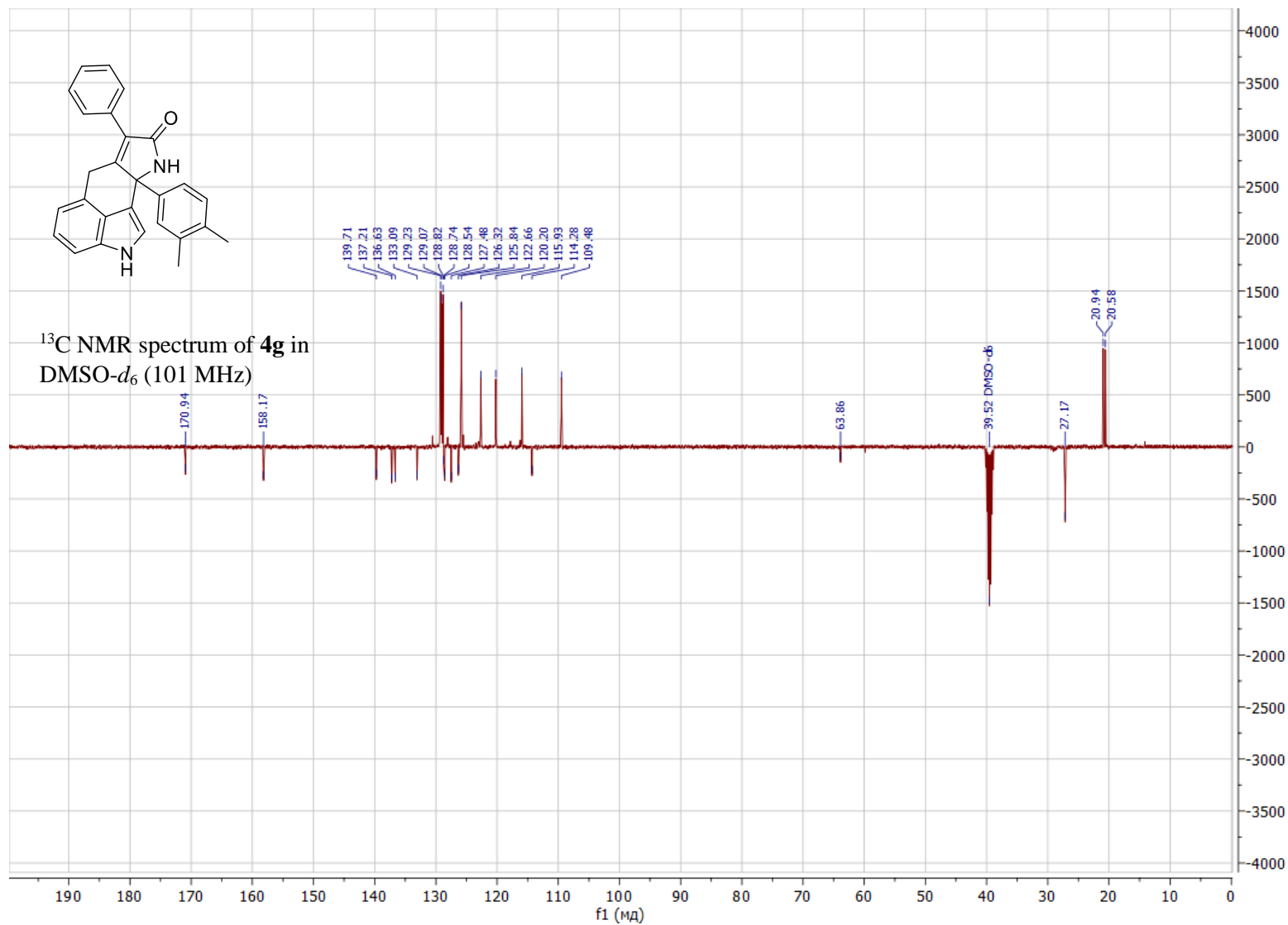


Figure S14. ¹³C NMR spectrum of **4g** in DMSO-*d*₆ (101 MHz)

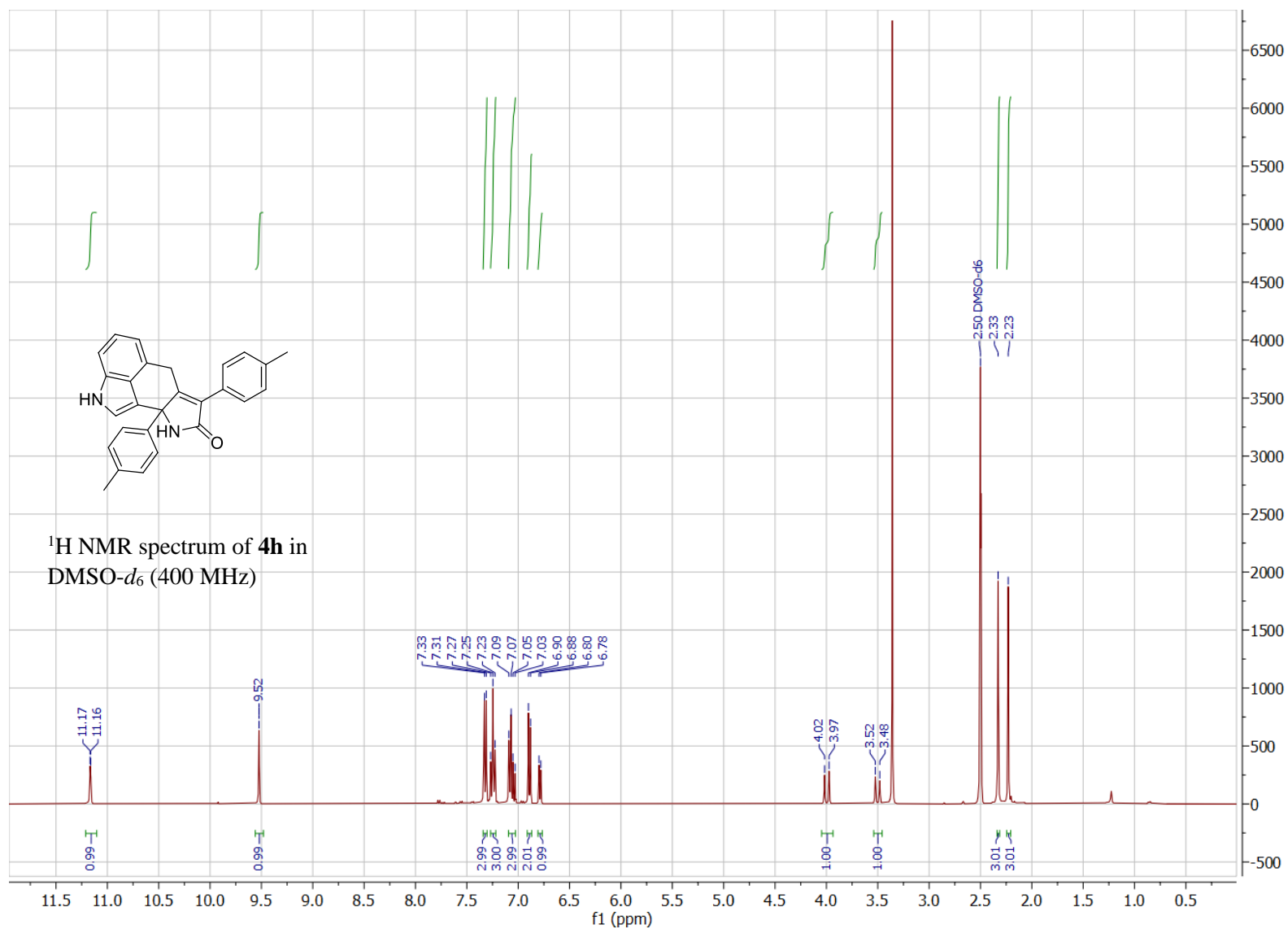


Figure S15. ¹H NMR spectrum of **4h** in DMSO-*d*₆ (400 MHz)

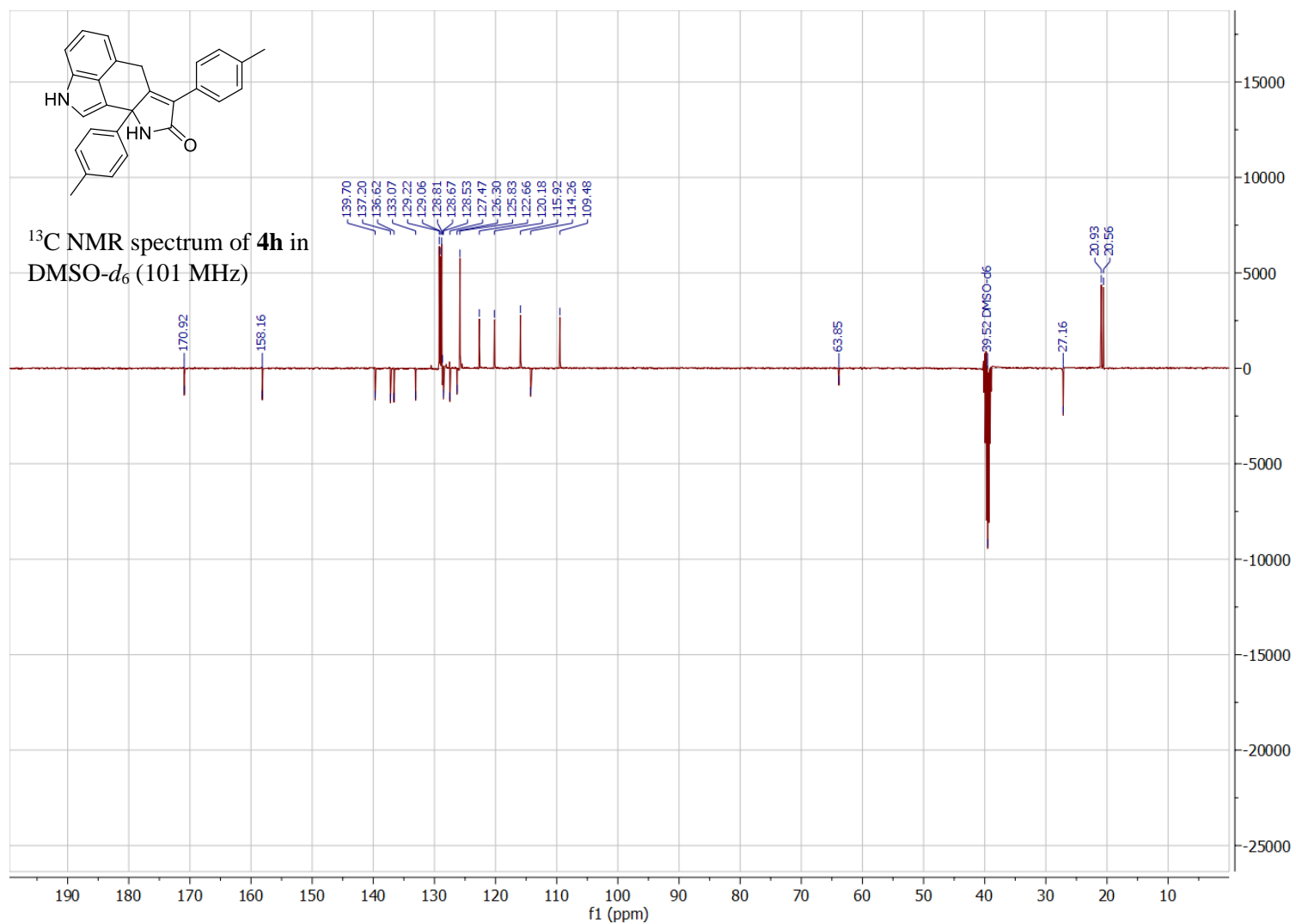


Figure S16 ¹³C NMR spectrum of **4h** in DMSO-*d*₆ (101 MHz)

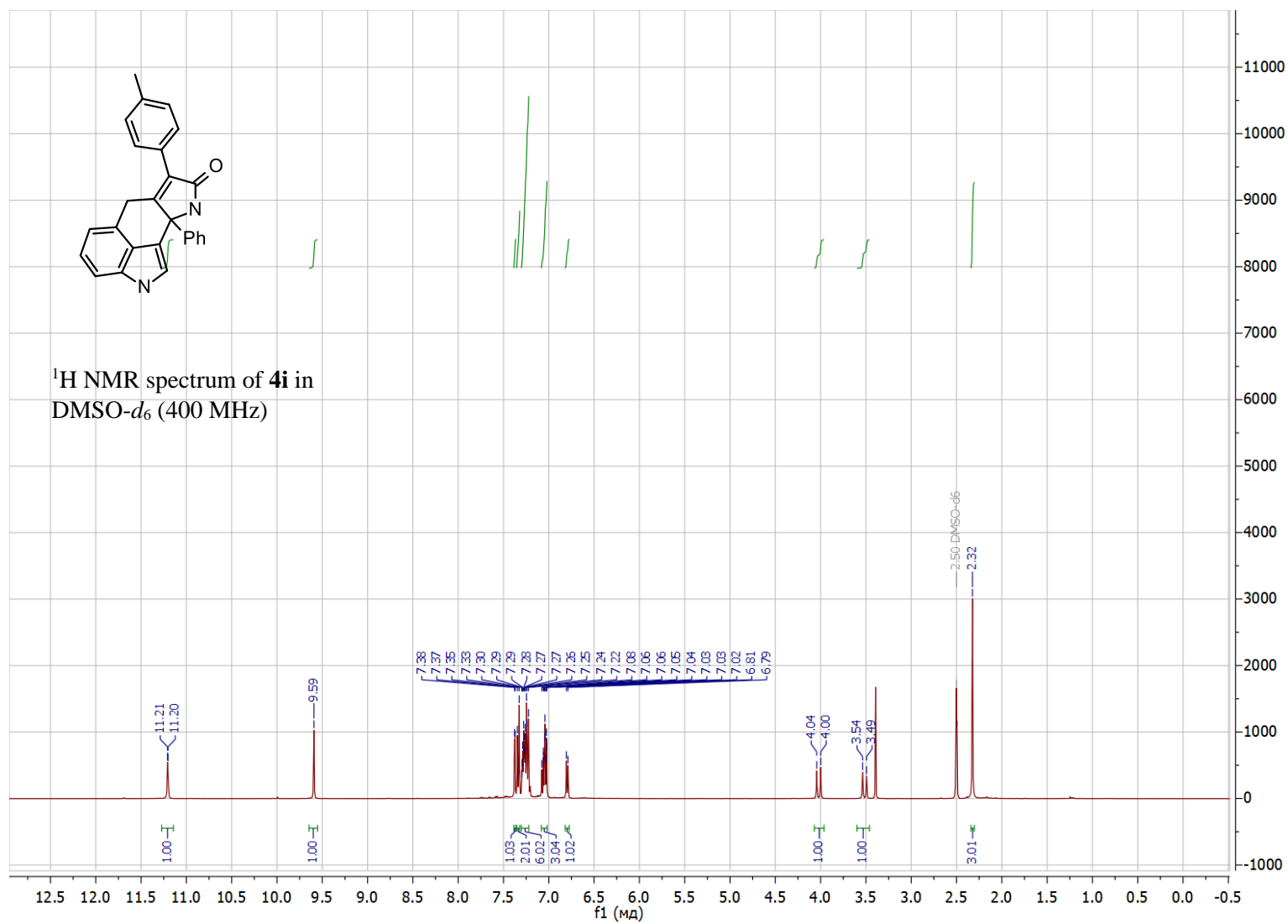


Figure S17 ^1H NMR spectrum of **4i** in DMSO- d_6 (400 MHz)

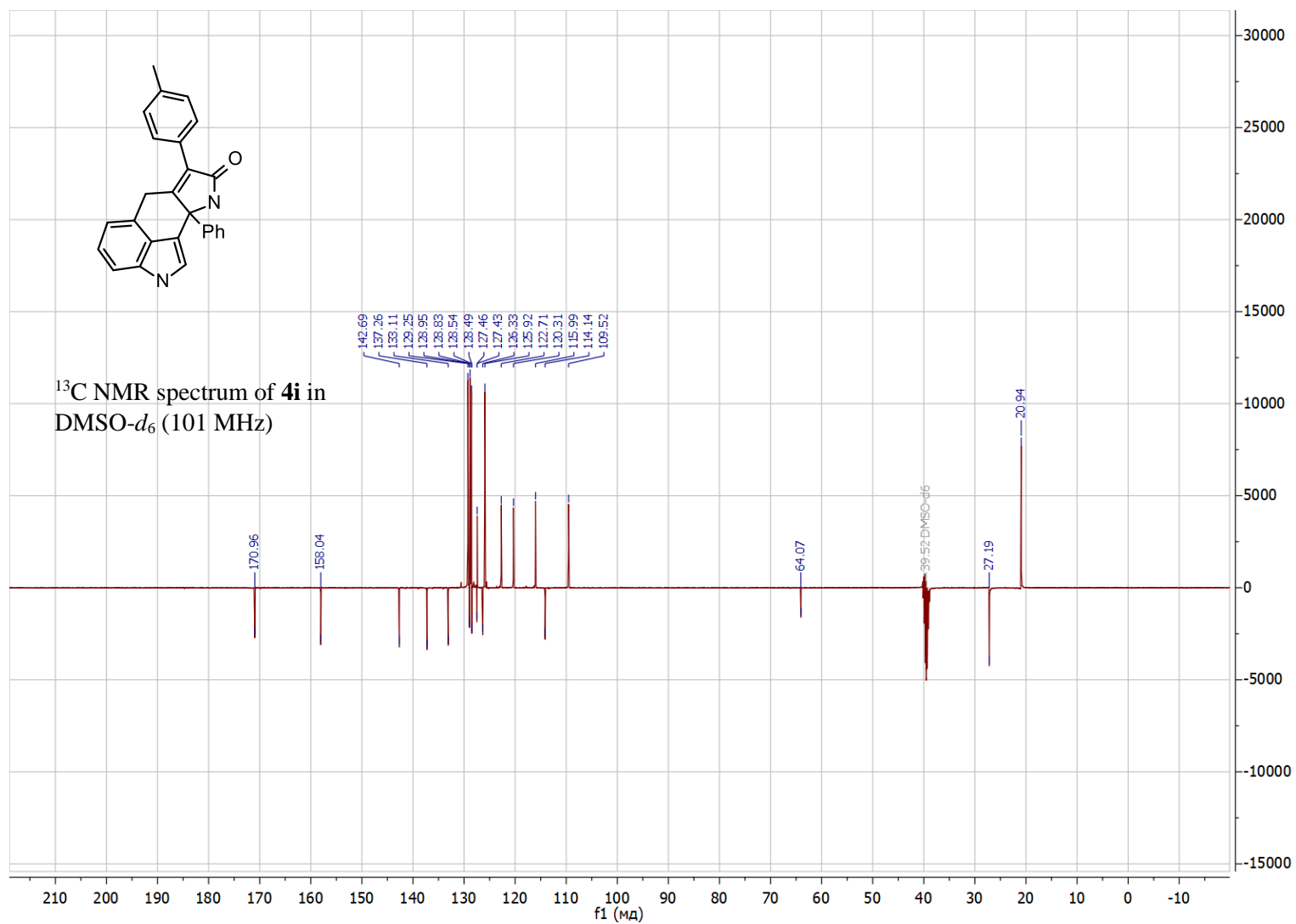


Figure S18. ¹³C NMR spectrum of **4i** in DMSO-*d*₆ (101 MHz)

^1H and ^{13}C NMR spectral charts for 5-(1H-indol-3-yl)-3,5-diaryl-1,5-dihydro-2H-pyrrol-2-ones **7aa-ah,bd,ca,da,eg,fc,fg,ga**

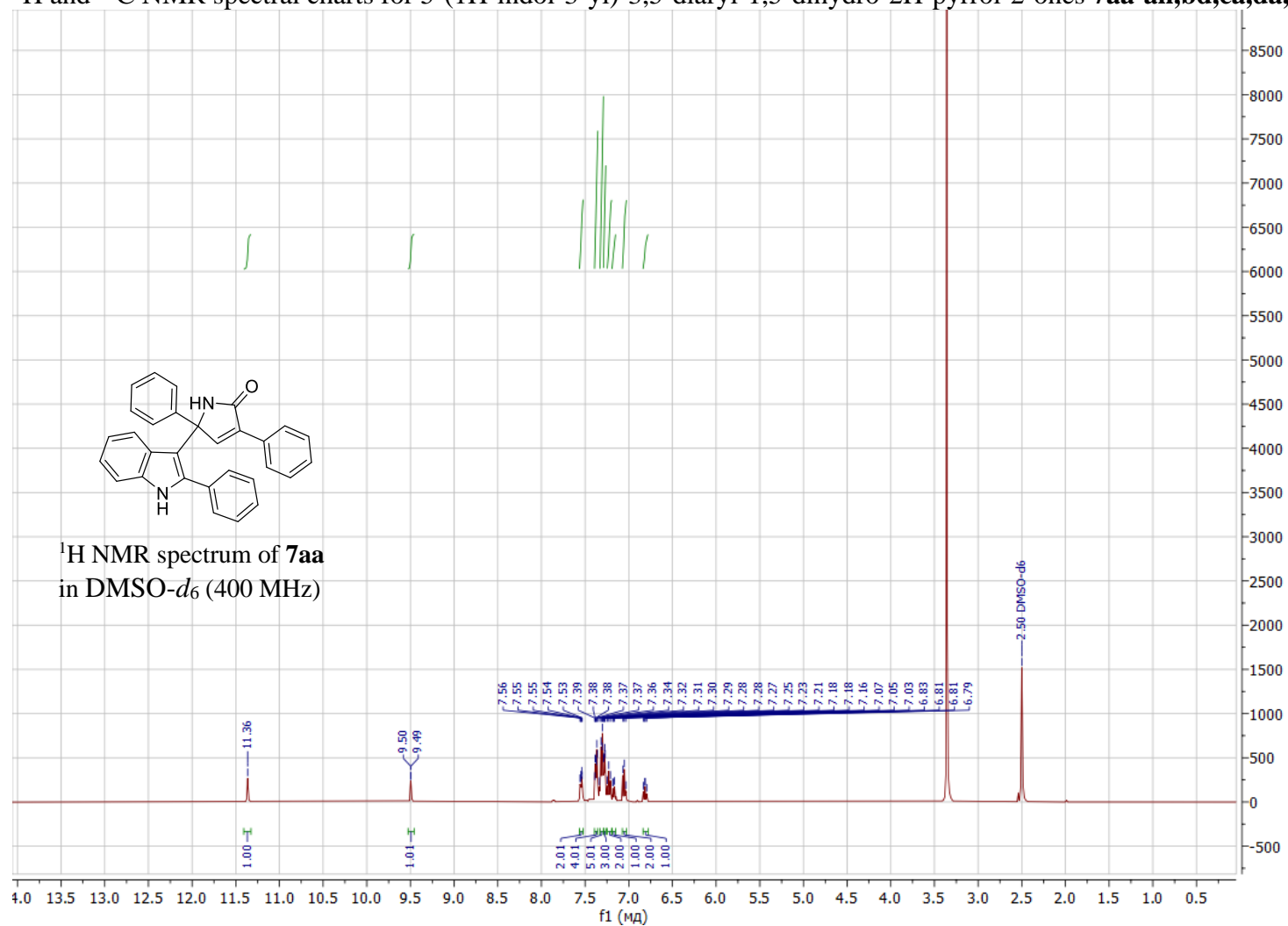


Figure S19. ^1H NMR spectrum of **7aa** in $\text{DMSO}-d_6$ (400 MHz)

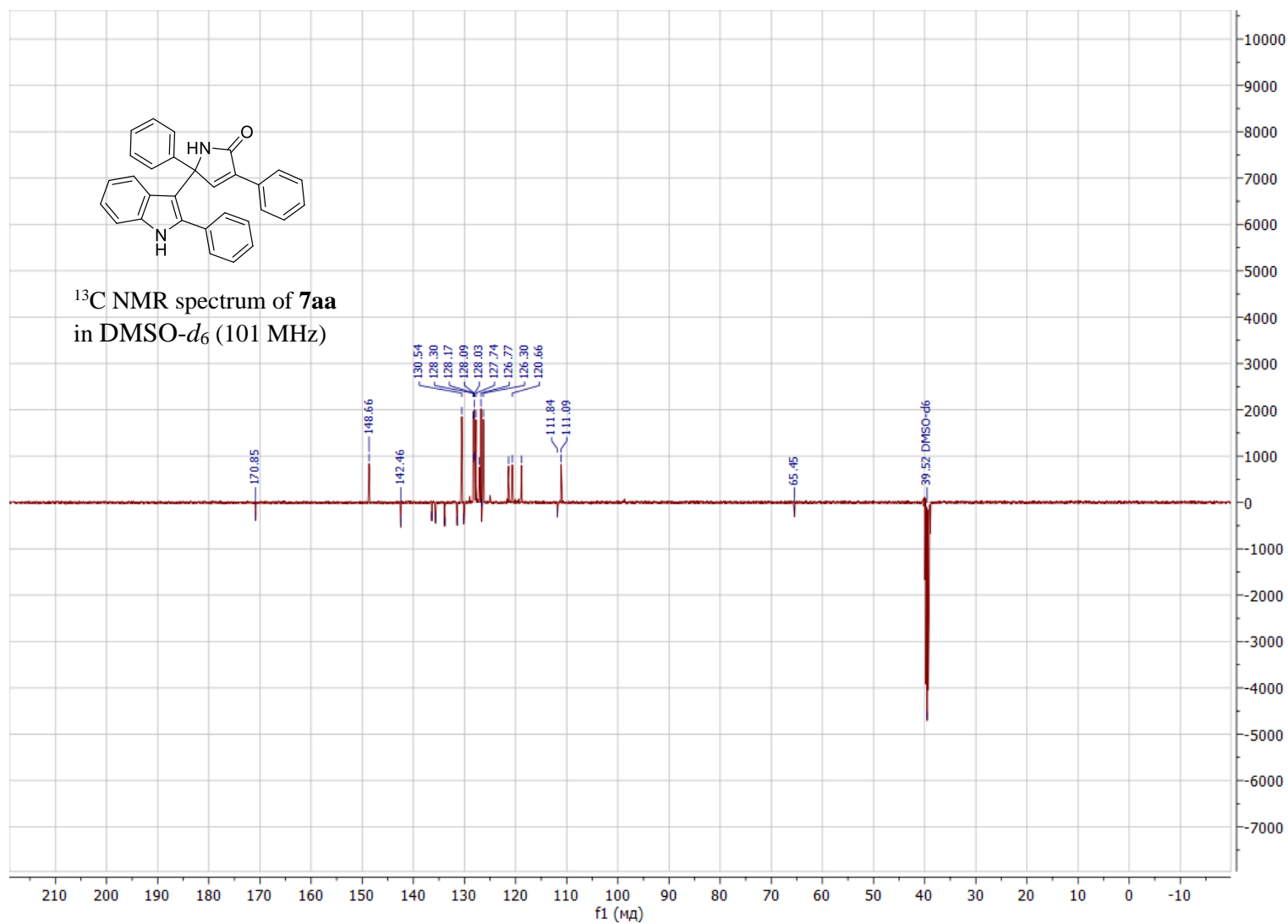


Figure S20. ^{13}C NMR spectrum of **7aa** in DMSO- d_6 (101 MHz)

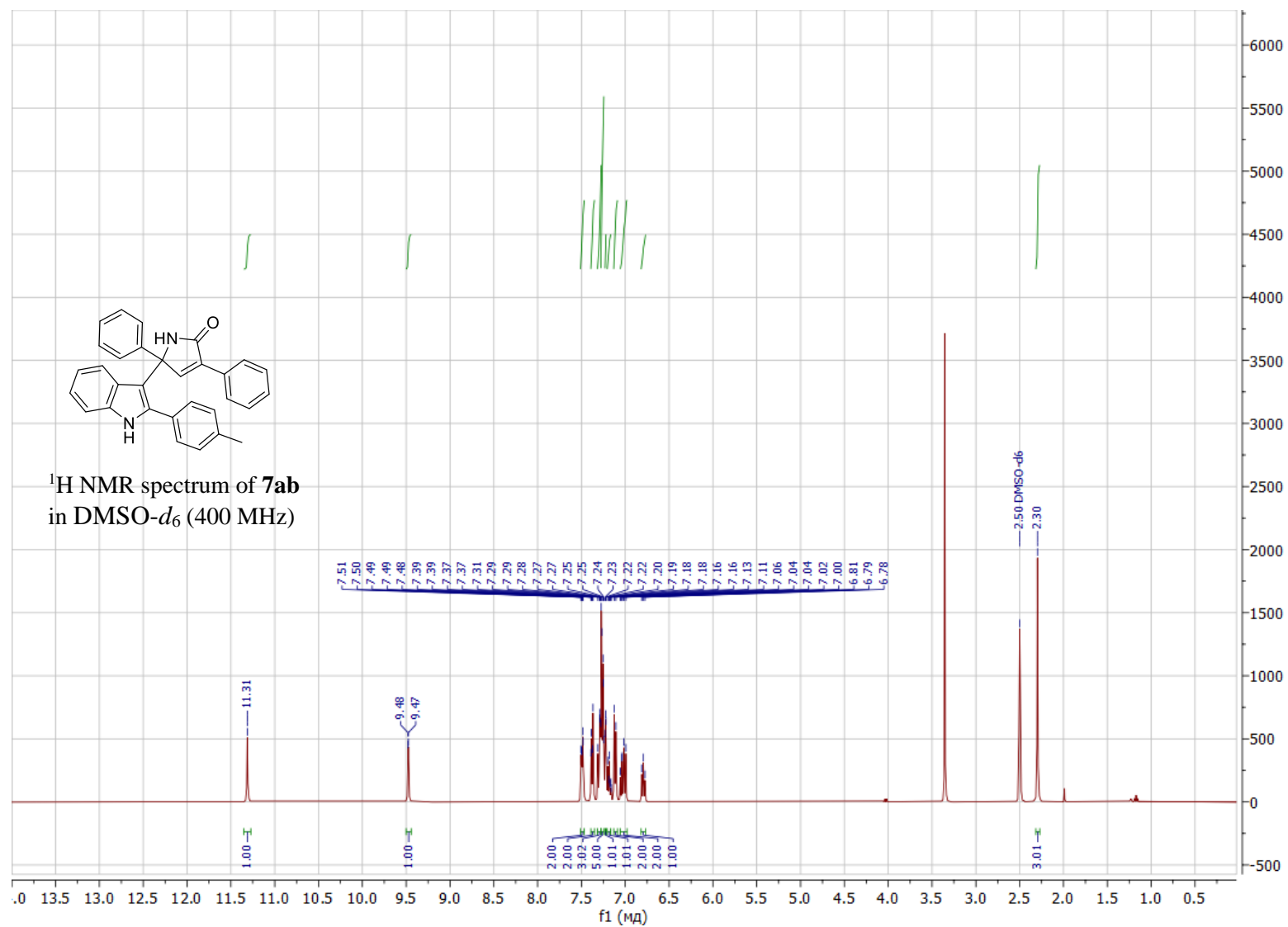


Figure S21. ¹H NMR spectrum of **7ab** in DMSO-*d*₆ (400 MHz)

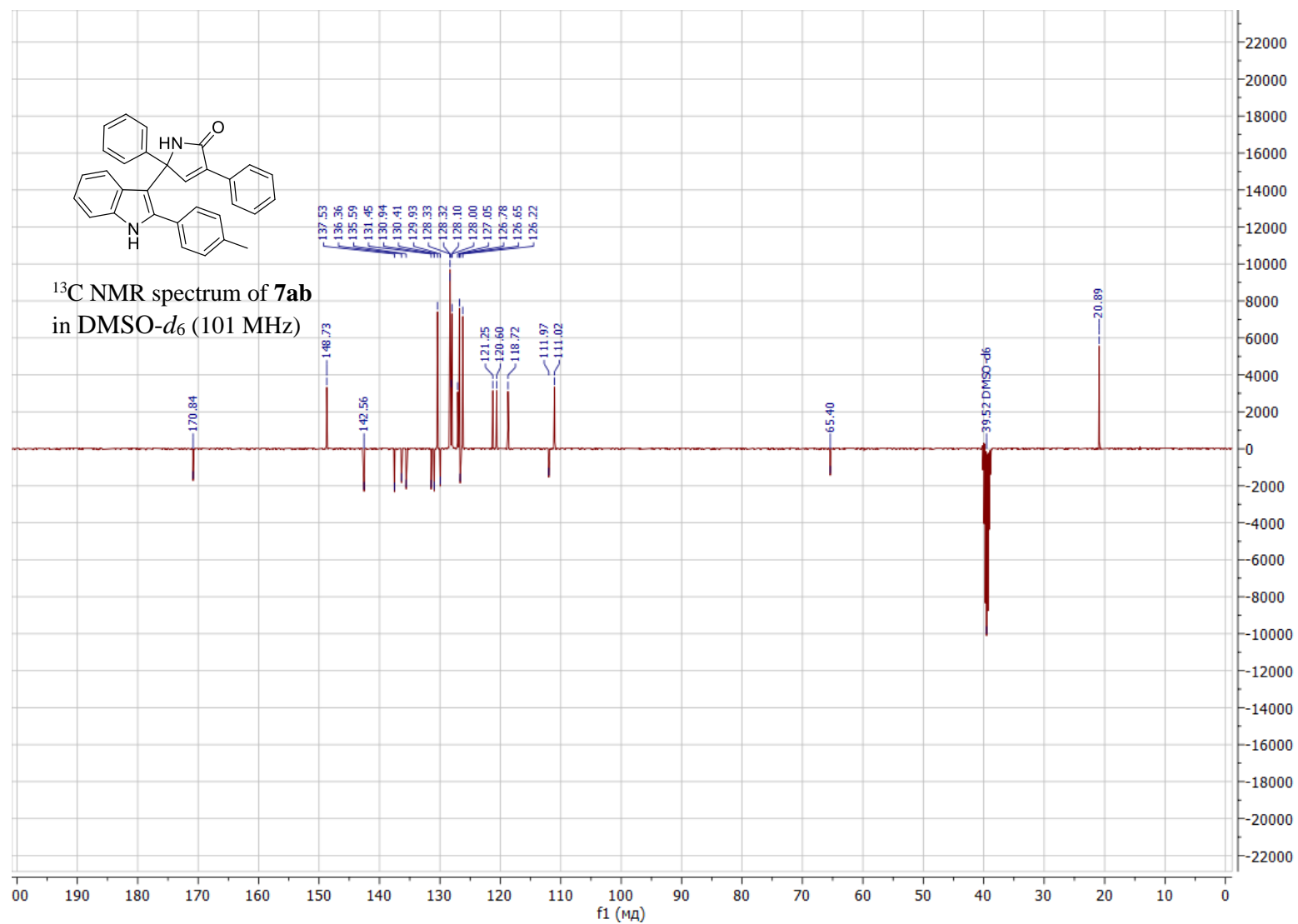


Figure S22. ^{13}C NMR spectrum of **7ab** in DMSO- d_6 (101 MHz)

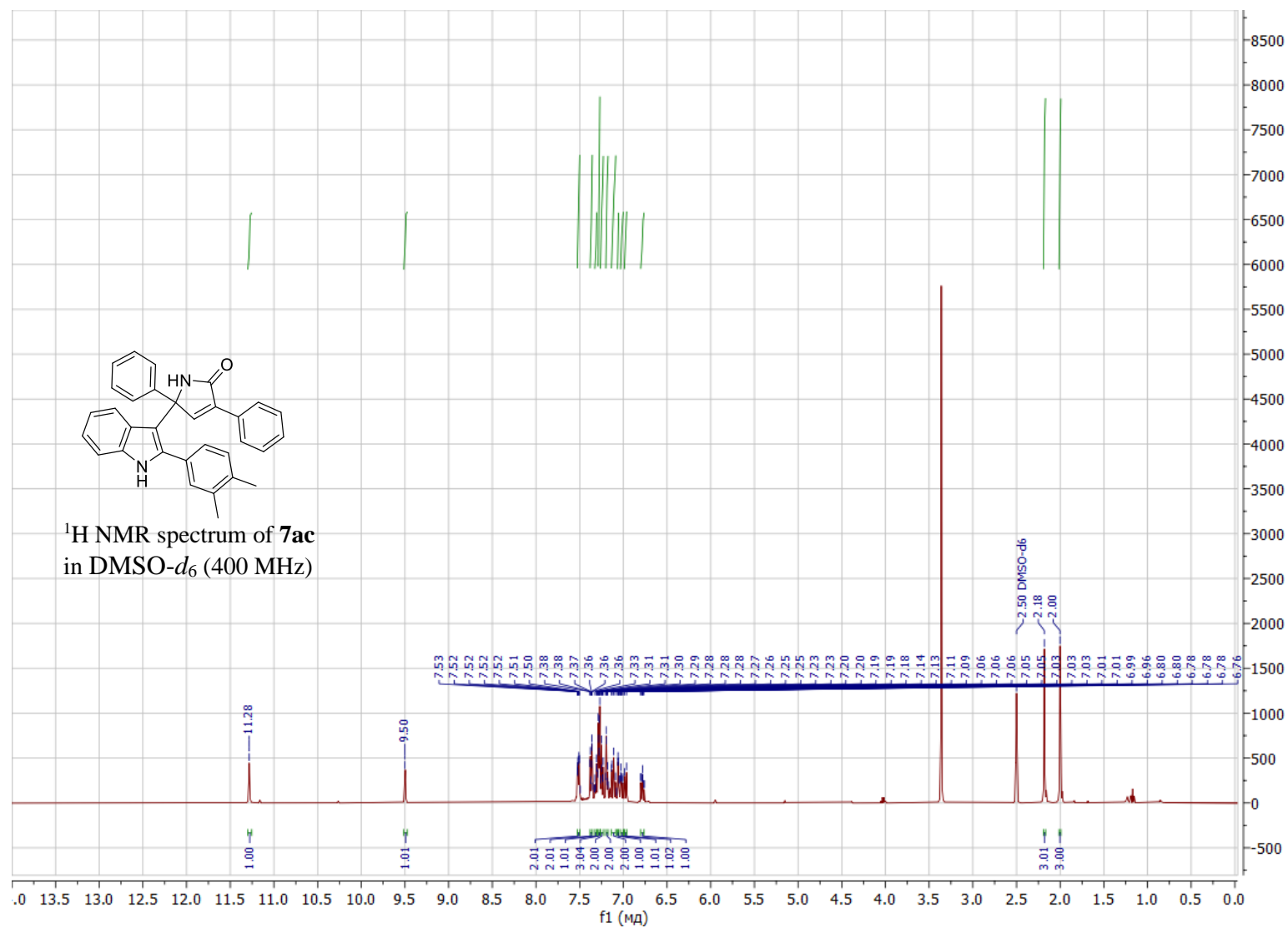


Figure S23. ¹H NMR spectrum of **7ac** in DMSO-*d*₆ (400 MHz)

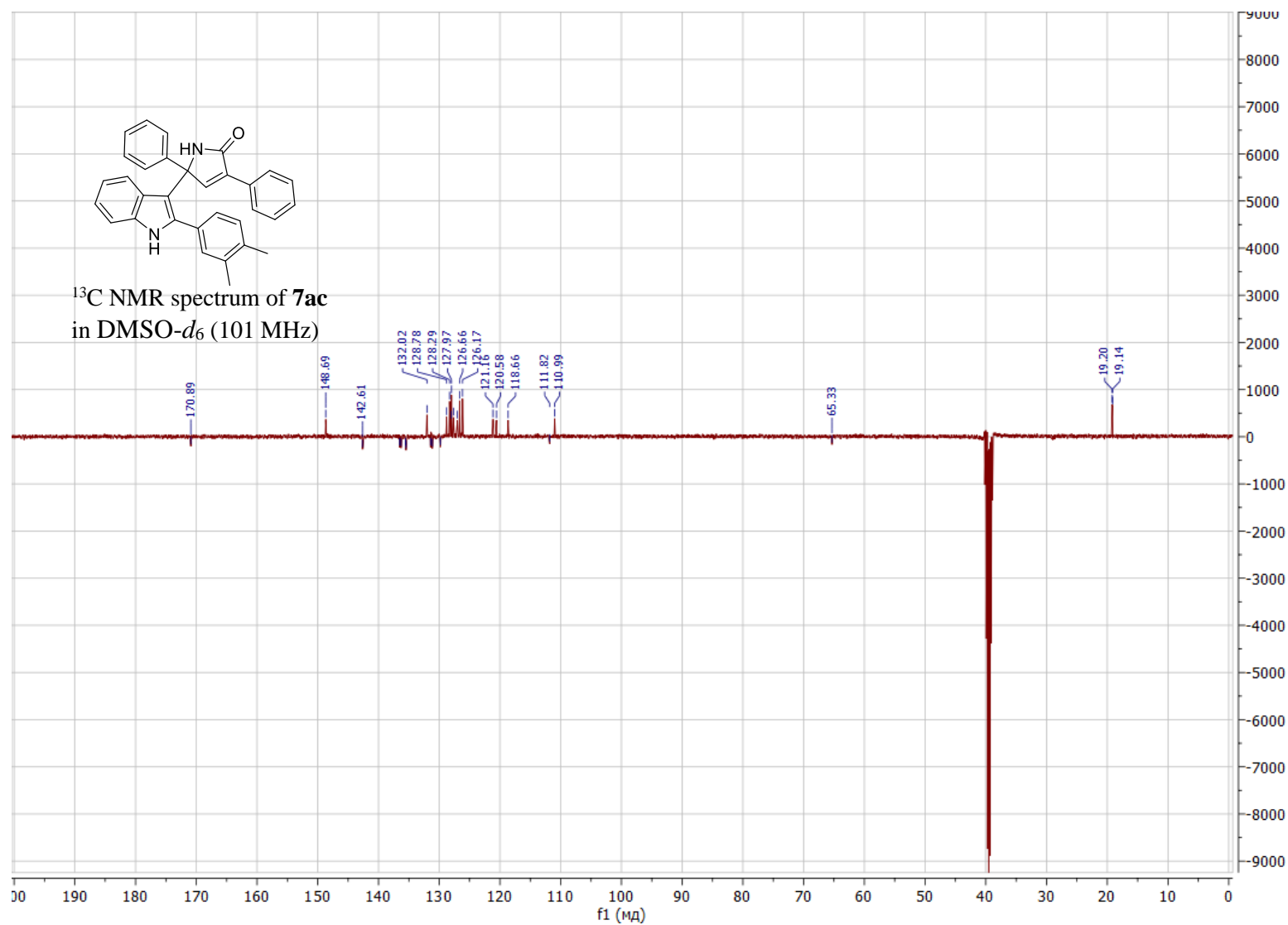


Figure S24. ¹³C NMR spectrum of **7ac** in DMSO-*d*₆ (101 MHz)

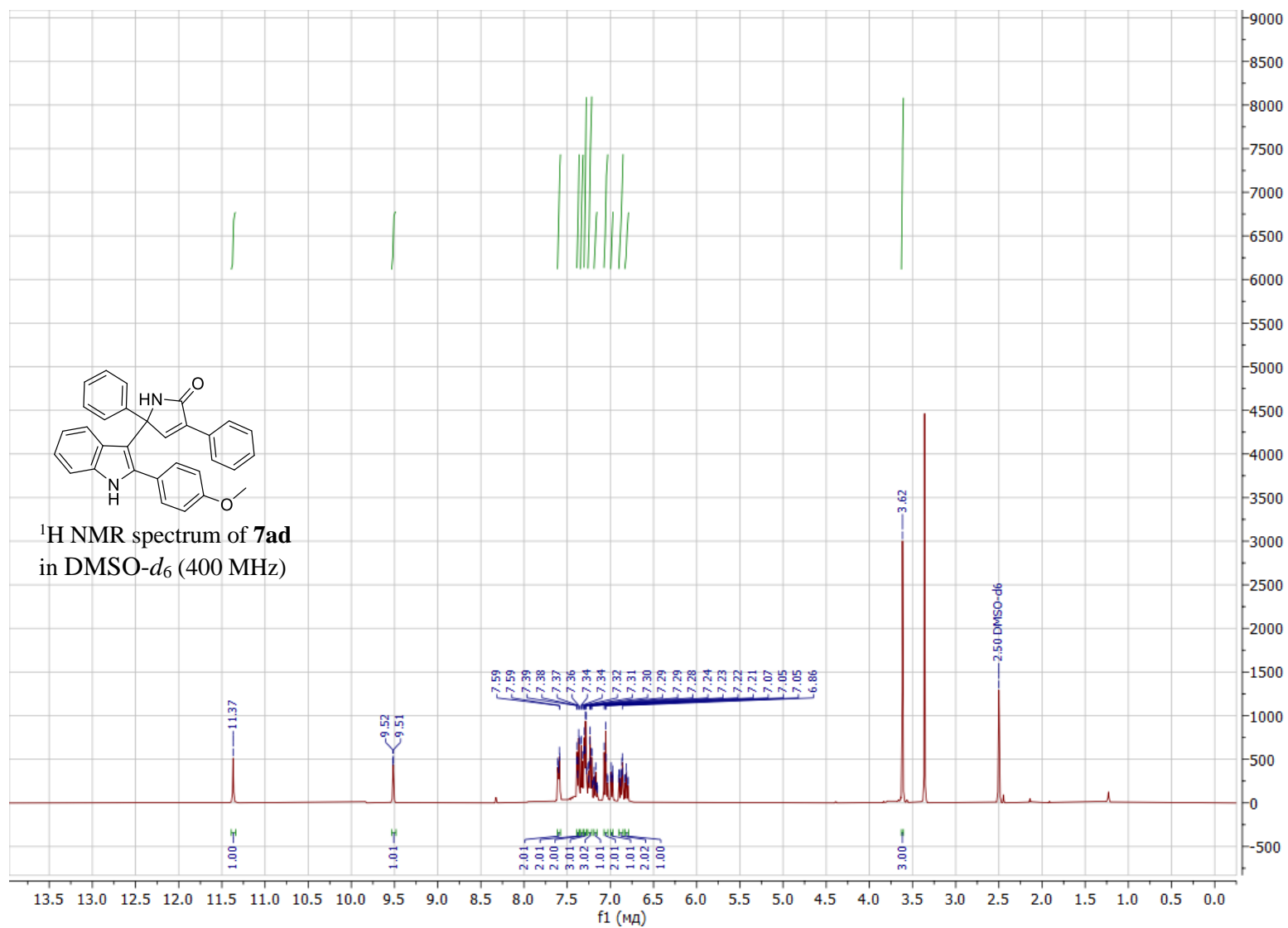


Figure S25. ¹H NMR spectrum of **7ad** in DMSO-*d*₆ (400 MHz)

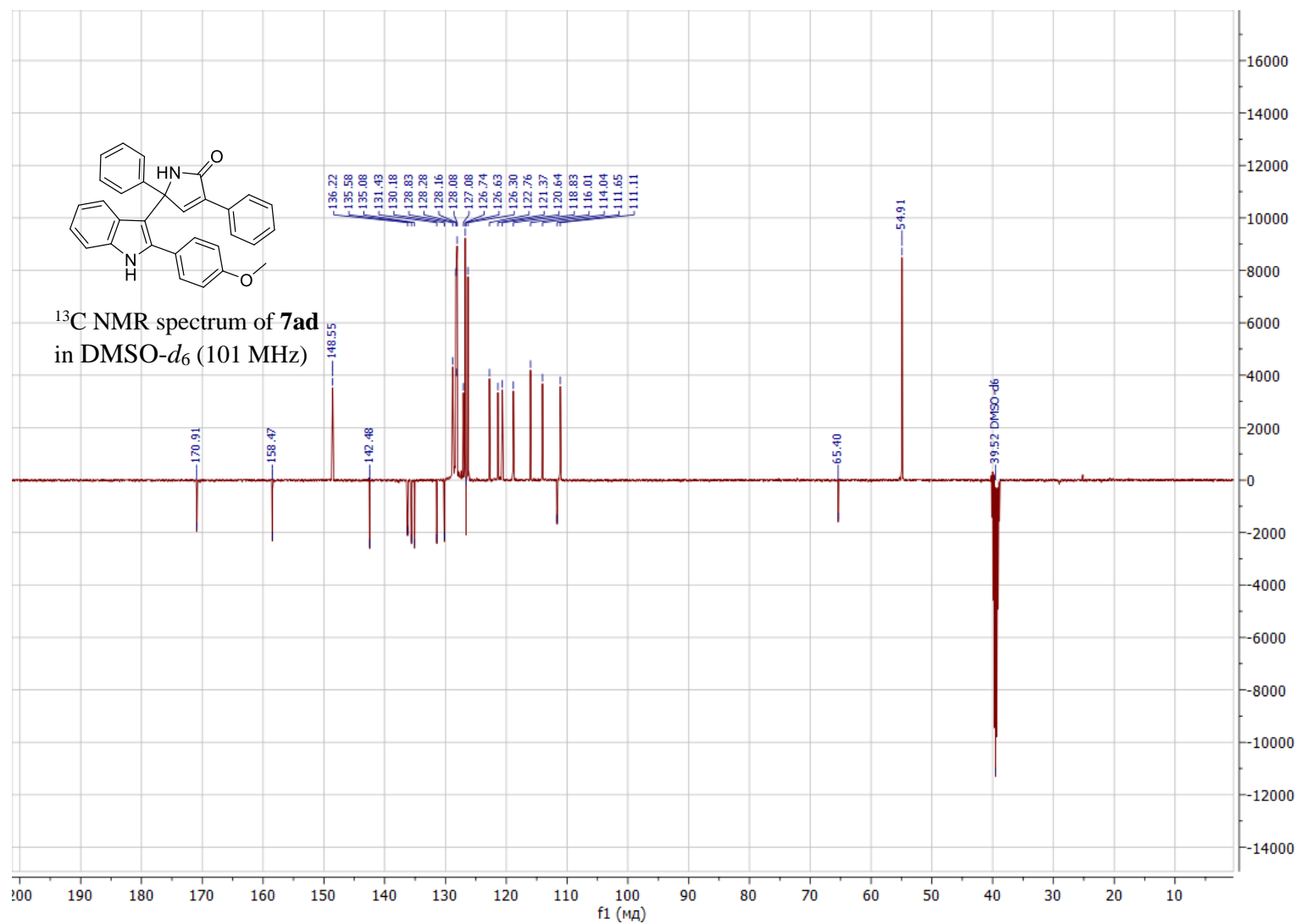


Figure S26. ^{13}C NMR spectrum of **7ad** in DMSO- d_6 (101 MHz)

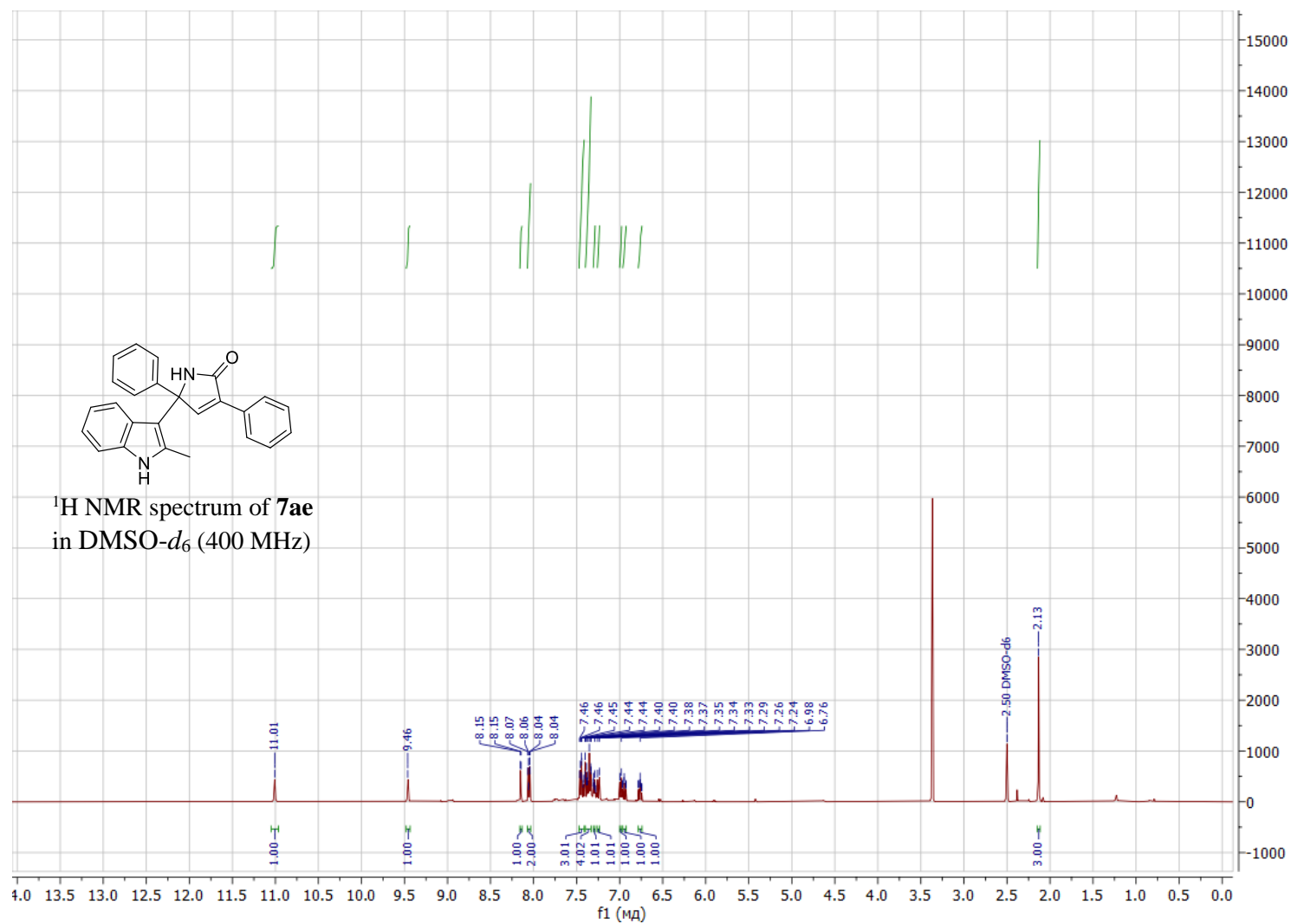


Figure S27. ¹H NMR spectrum of **7ae** in DMSO-*d*₆ (400 MHz)

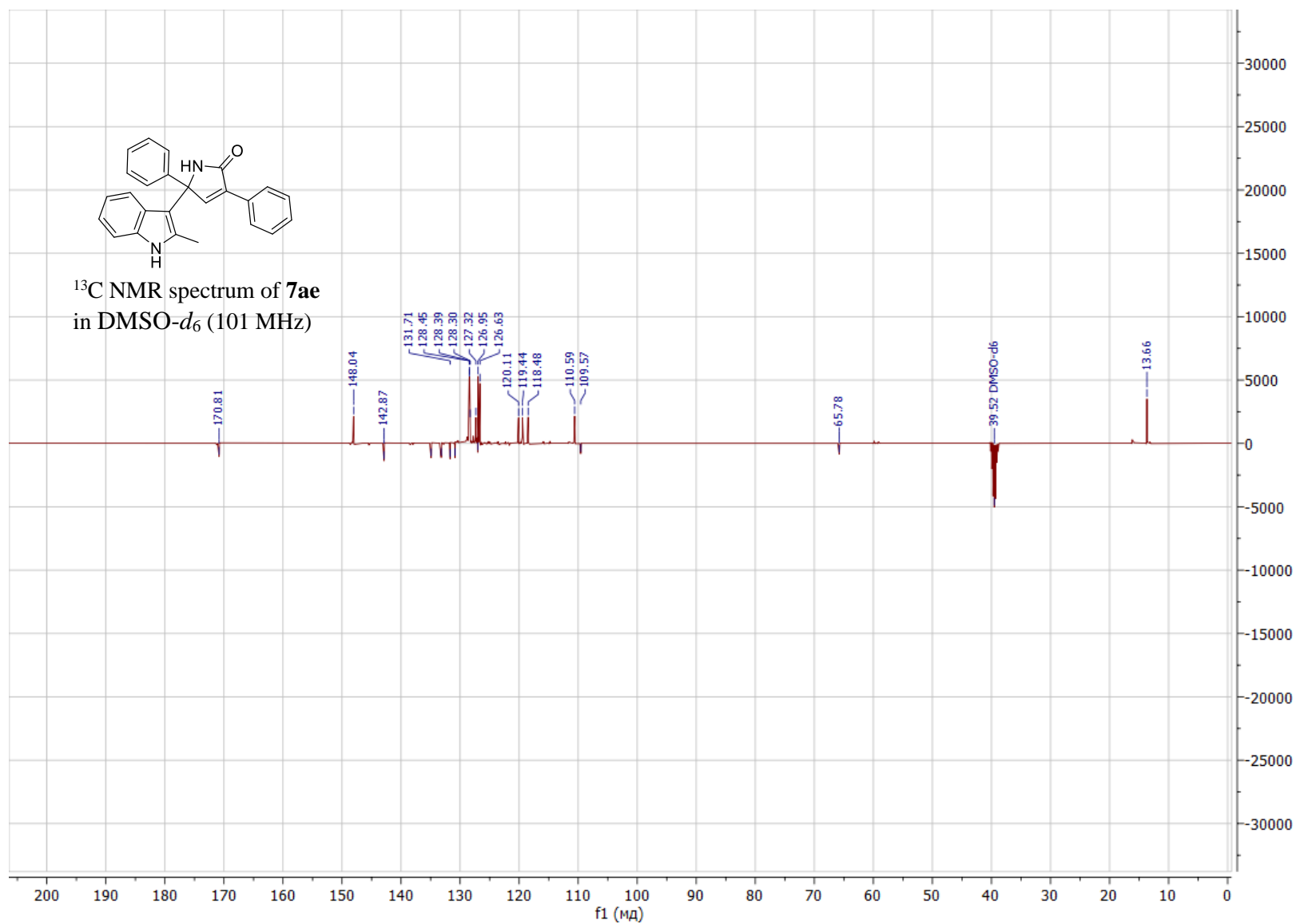


Figure S28. ^{13}C NMR spectrum of **7ae** in DMSO- d_6 (101 MHz)

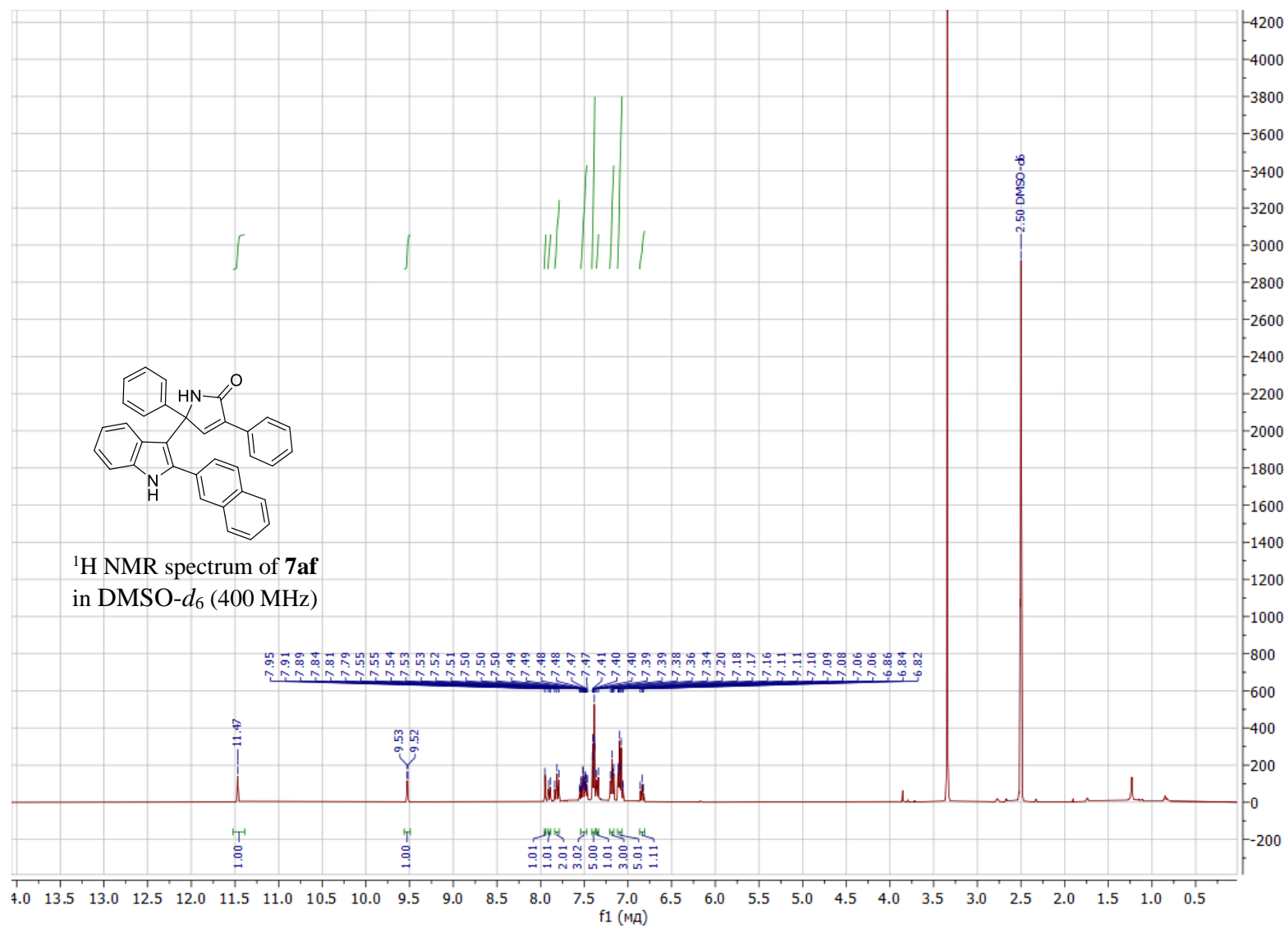


Figure S29. ¹H NMR spectrum of **7af** in DMSO-*d*₆ (400 MHz)

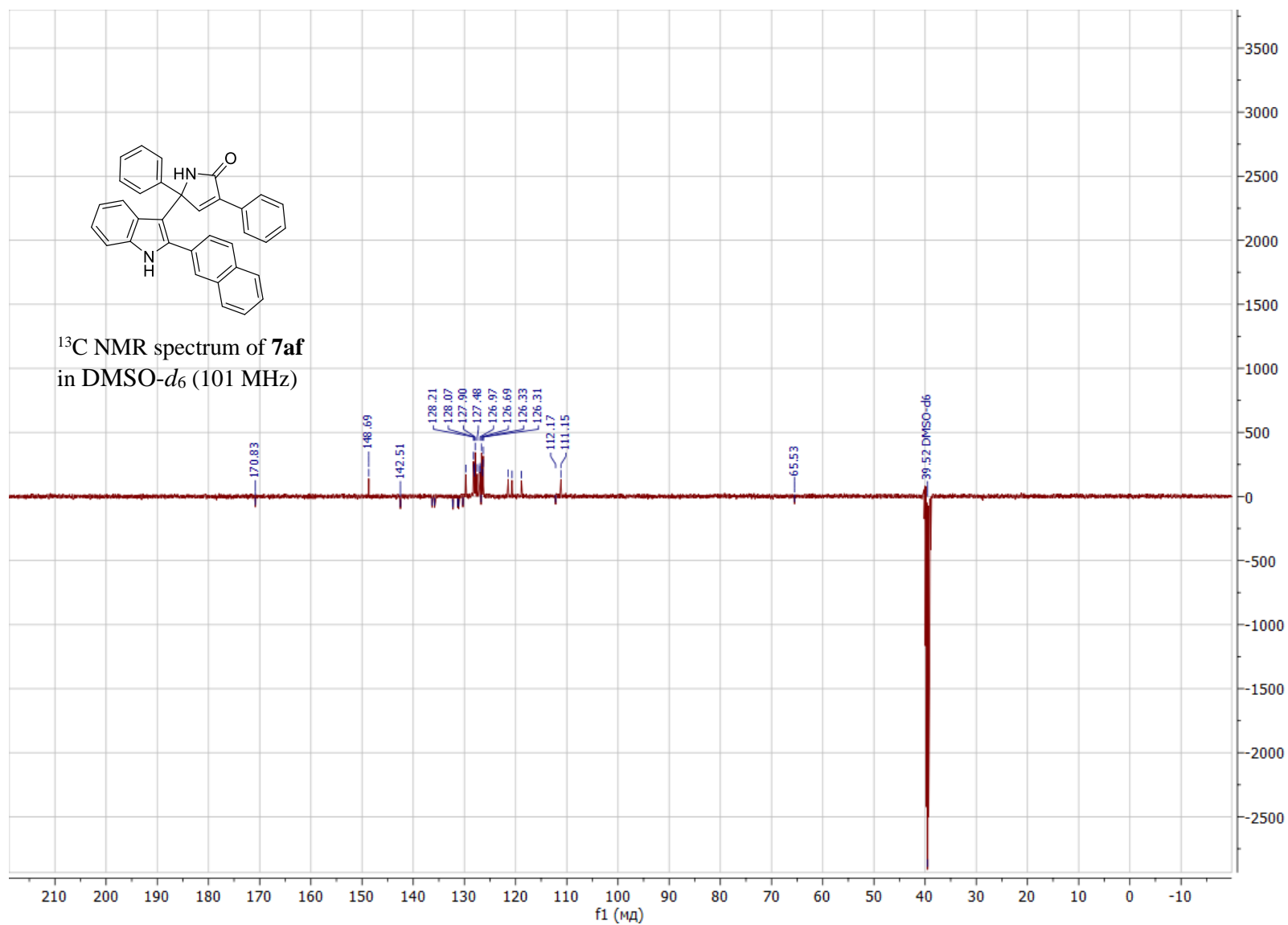


Figure S30. ^{13}C NMR spectrum of **7af** in DMSO- d_6 (101 MHz)

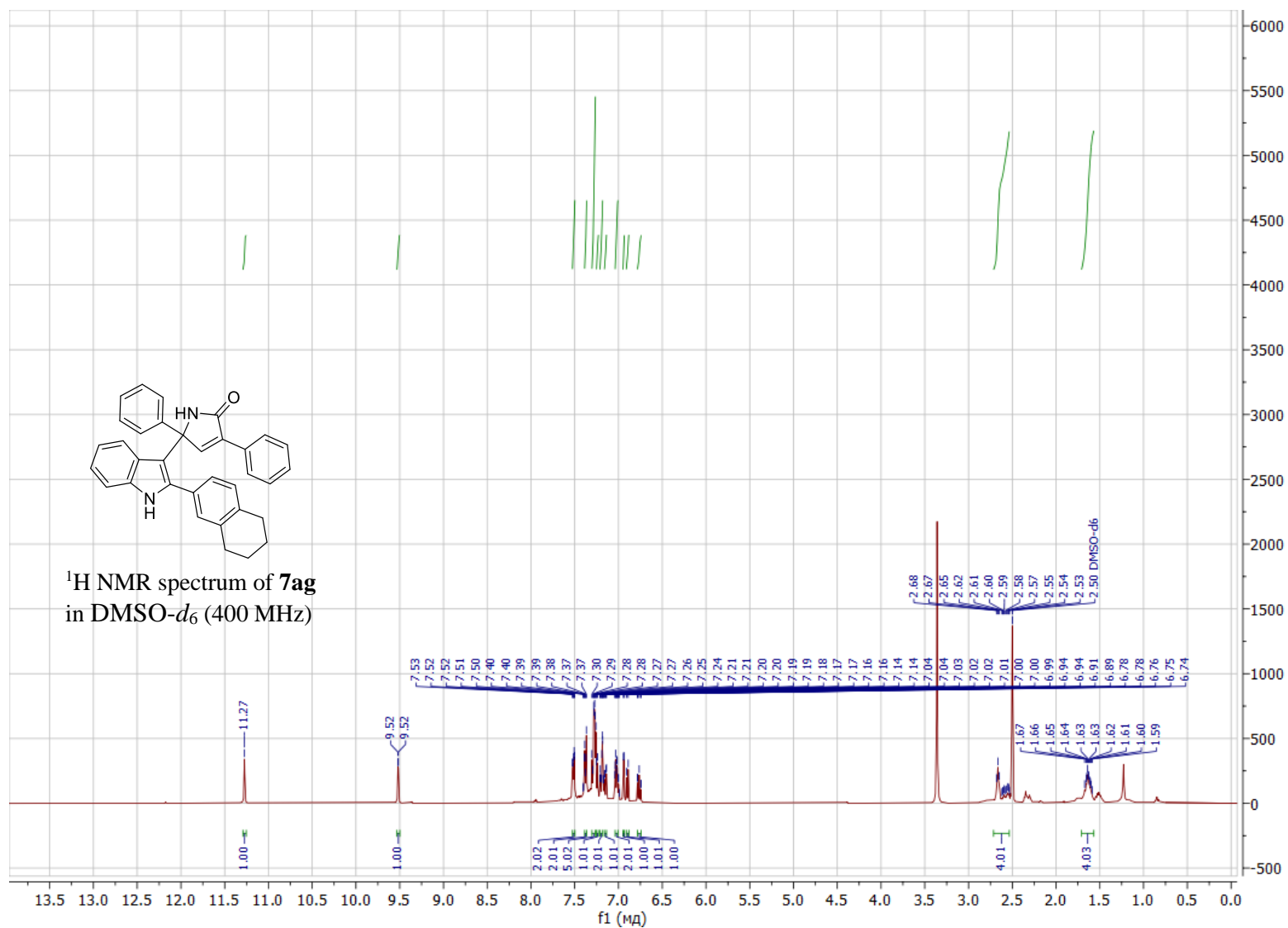


Figure S31. ¹H NMR spectrum of **7ag** in DMSO-*d*₆ (400 MHz)

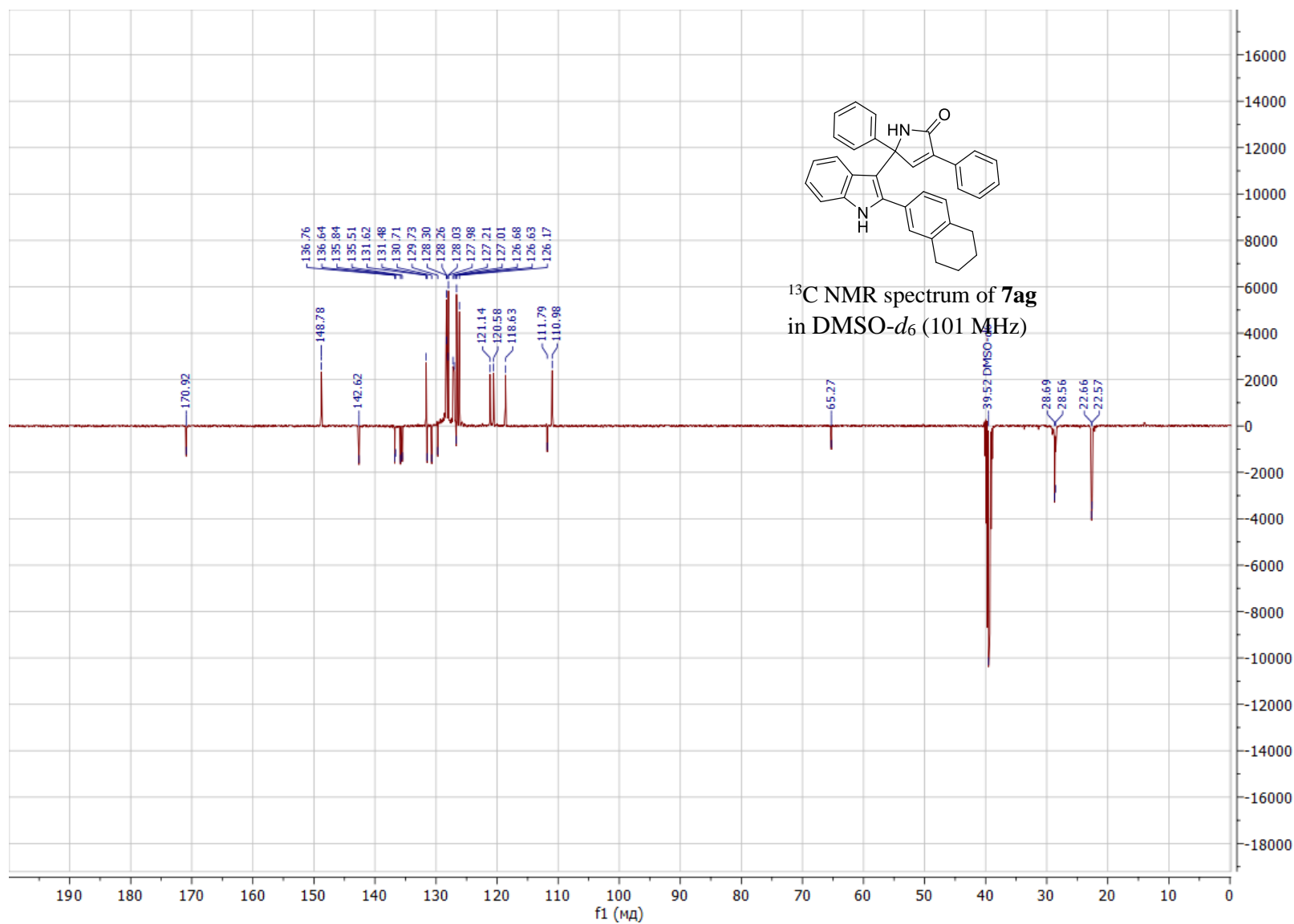


Figure S32. ¹³C NMR spectrum of **7ag** in DMSO-*d*₆ (101 MHz)

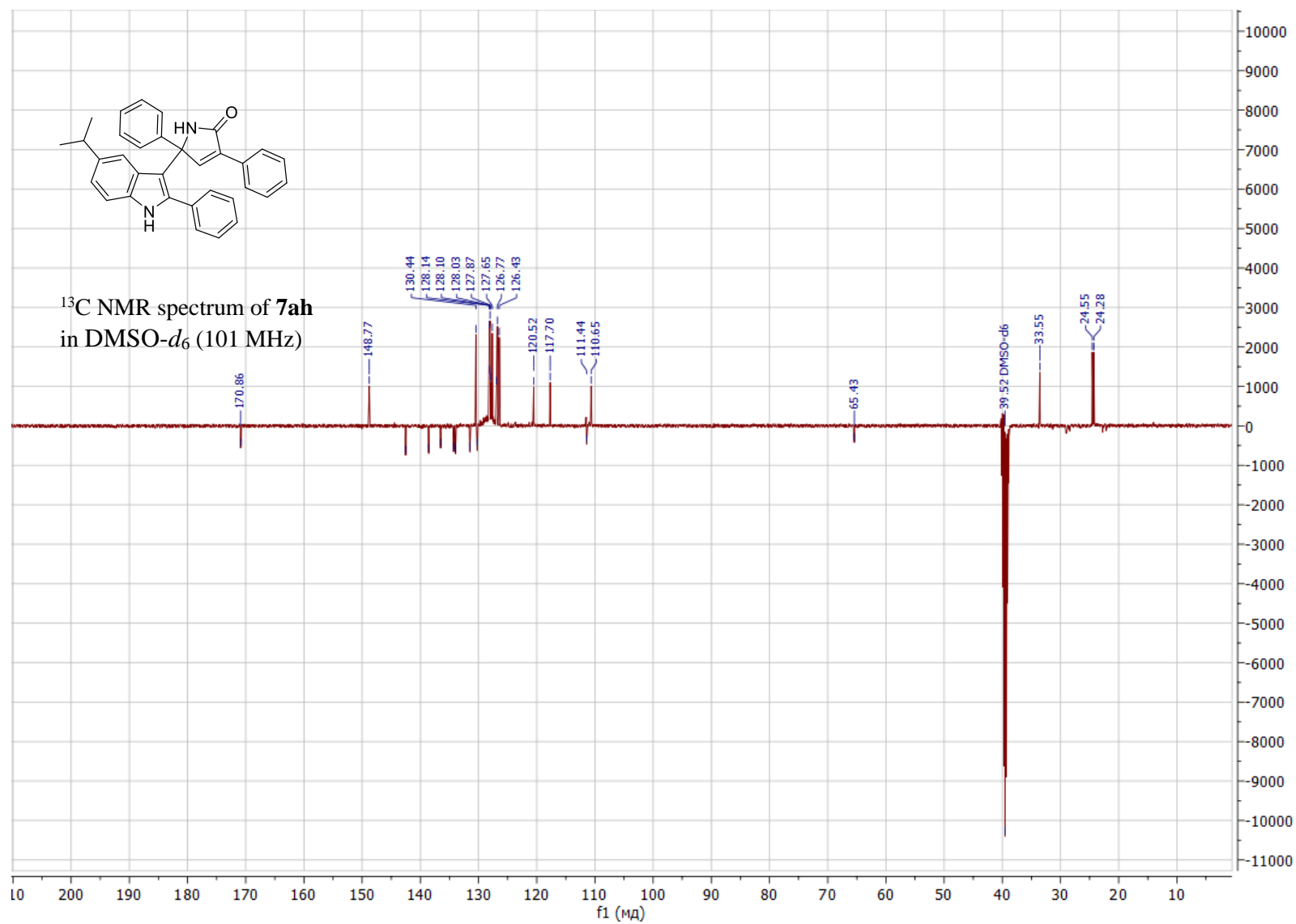


Figure S34. ^{13}C NMR spectrum of **7ah** in DMSO- d_6 (101 MHz)

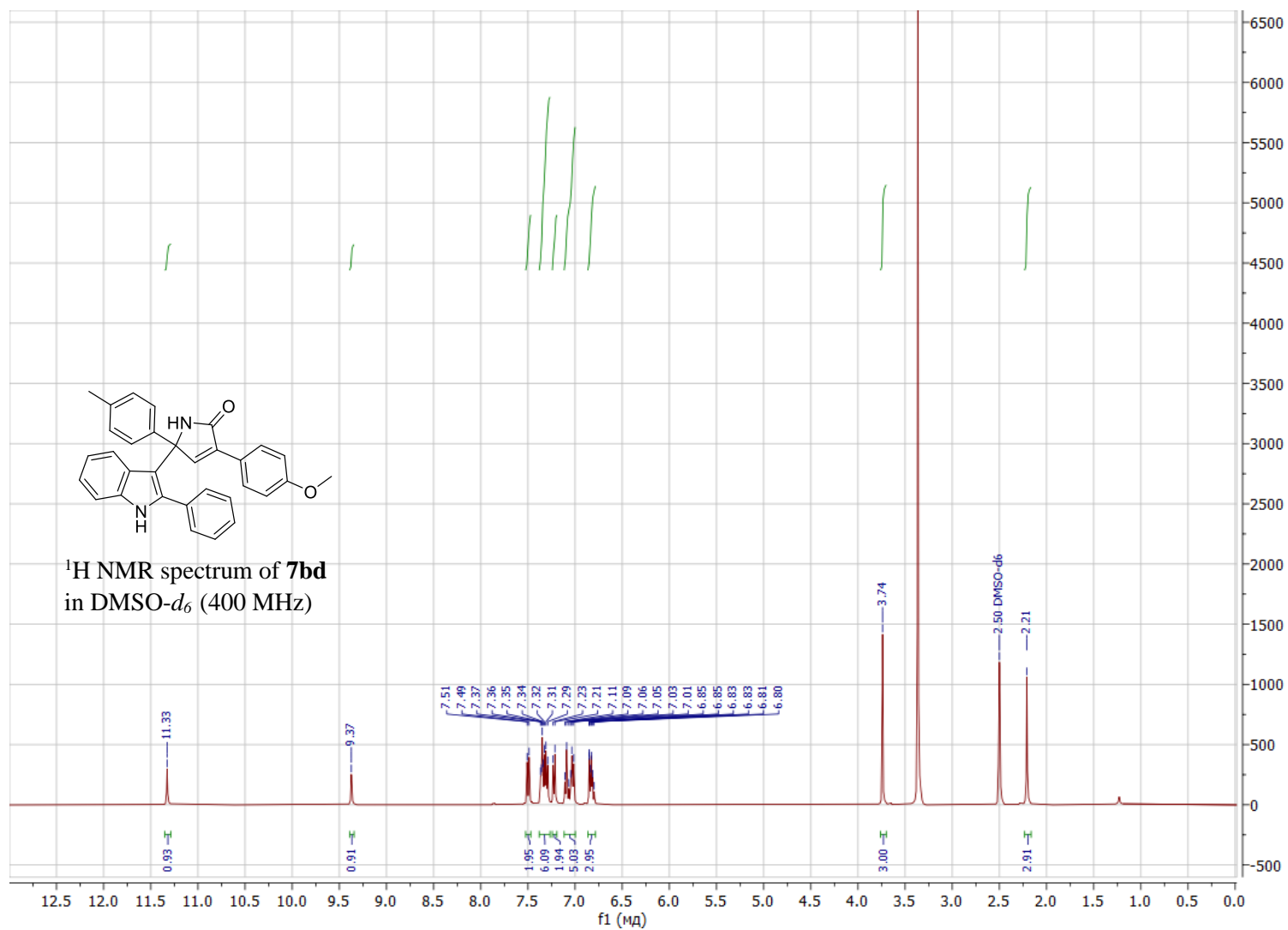


Figure S35. ¹H NMR spectrum of **7bd** in DMSO-*d*₆ (400 MHz)

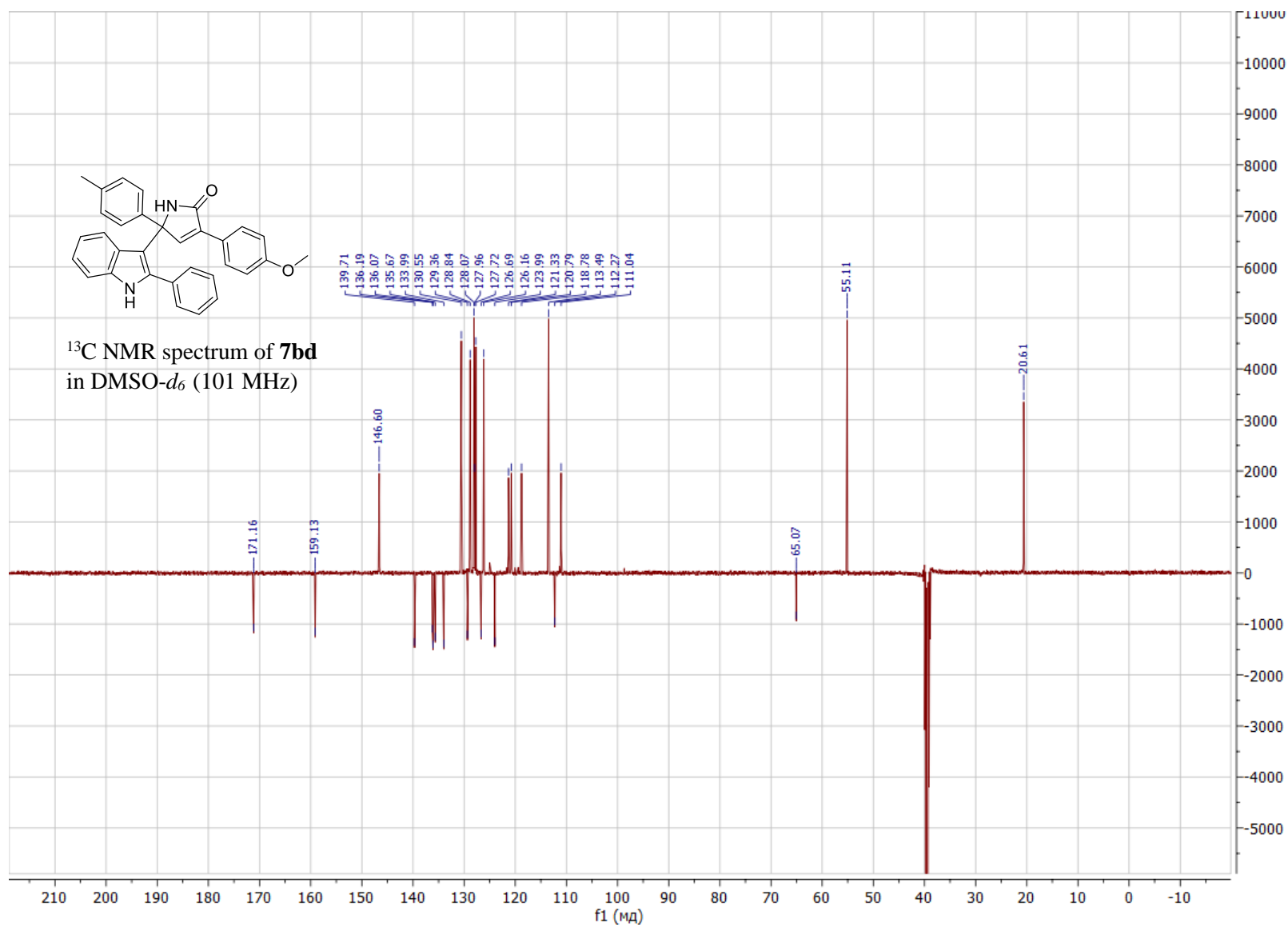


Figure S36. ¹³C NMR spectrum of **7bd** in DMSO-*d*₆ (101 MHz)

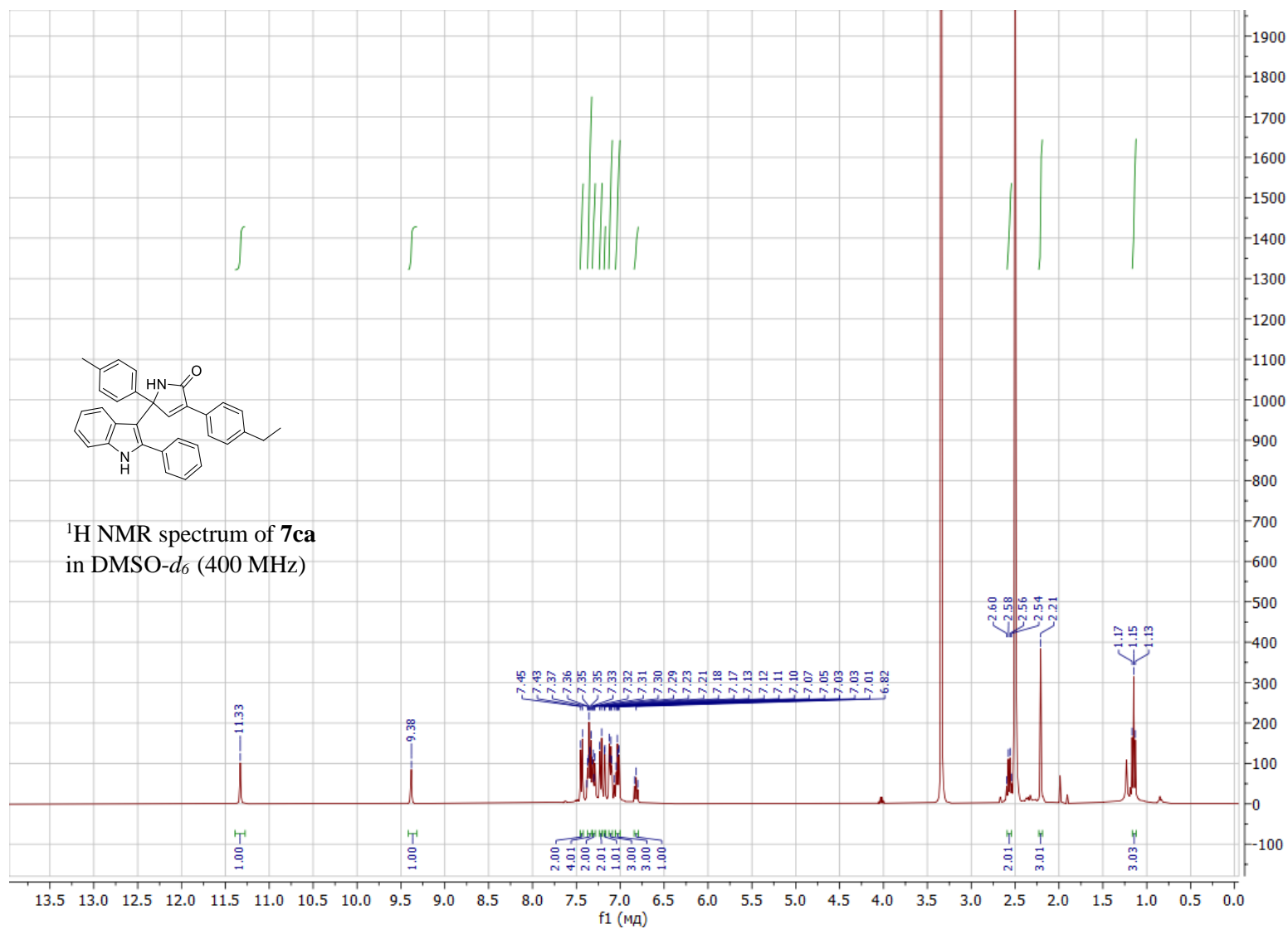


Figure S37. ¹H NMR spectrum of **7ca** in DMSO-*d*₆ (400 MHz)

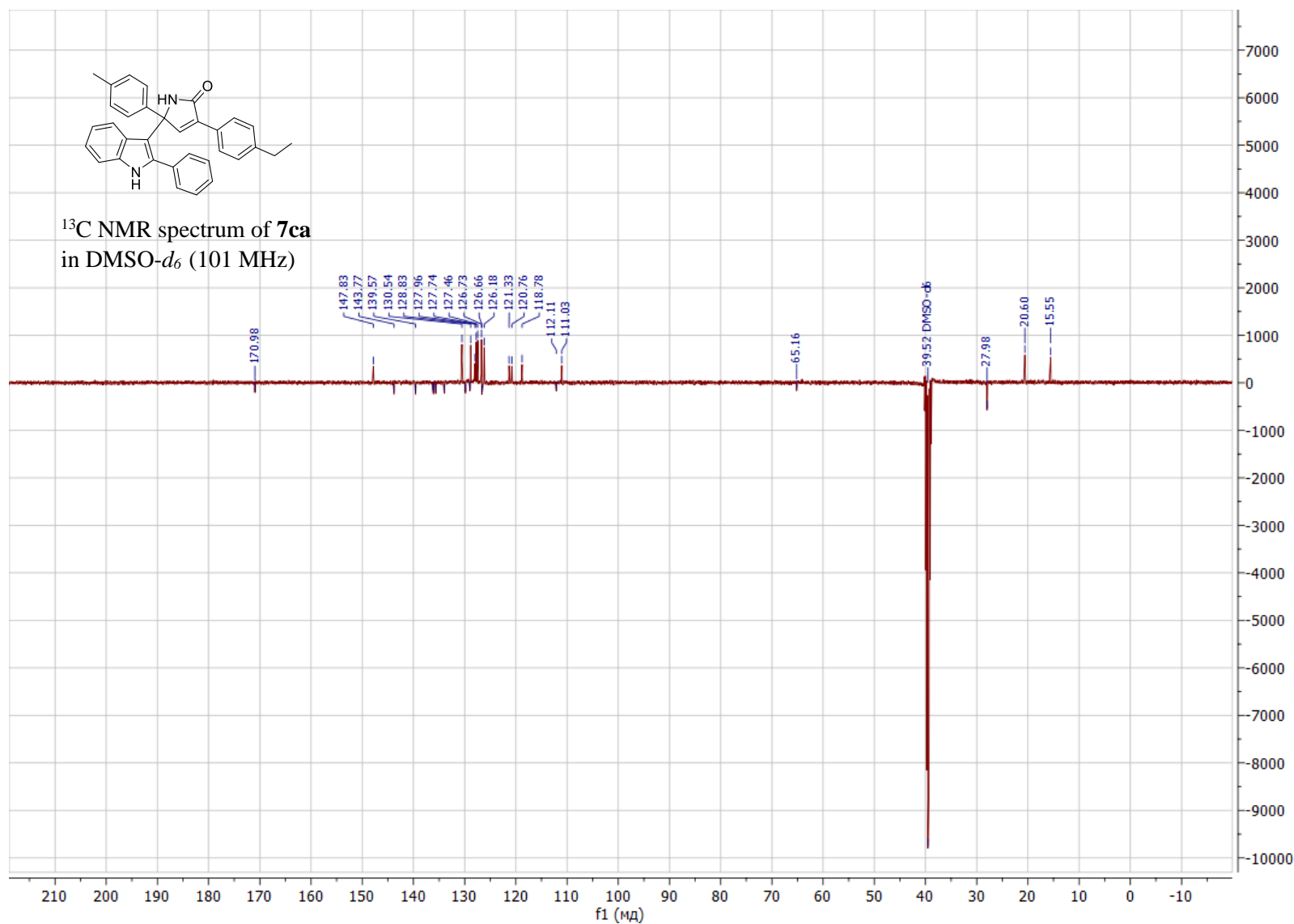


Figure S38. ^{13}C NMR spectrum of **7ca** in DMSO- d_6 (101 MHz)

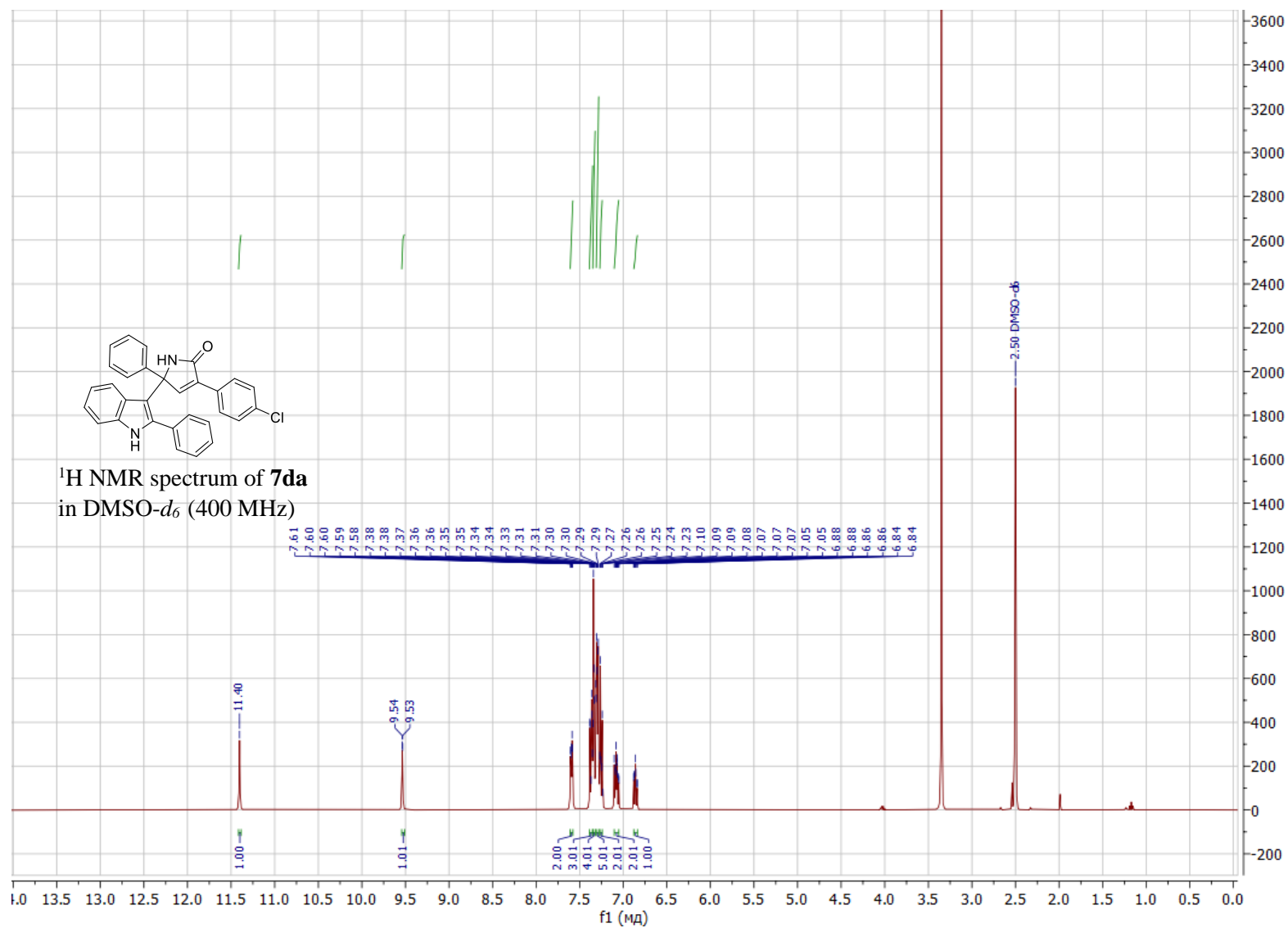


Figure S39. ¹H NMR spectrum of **7da** in DMSO-*d*₆ (400 MHz)

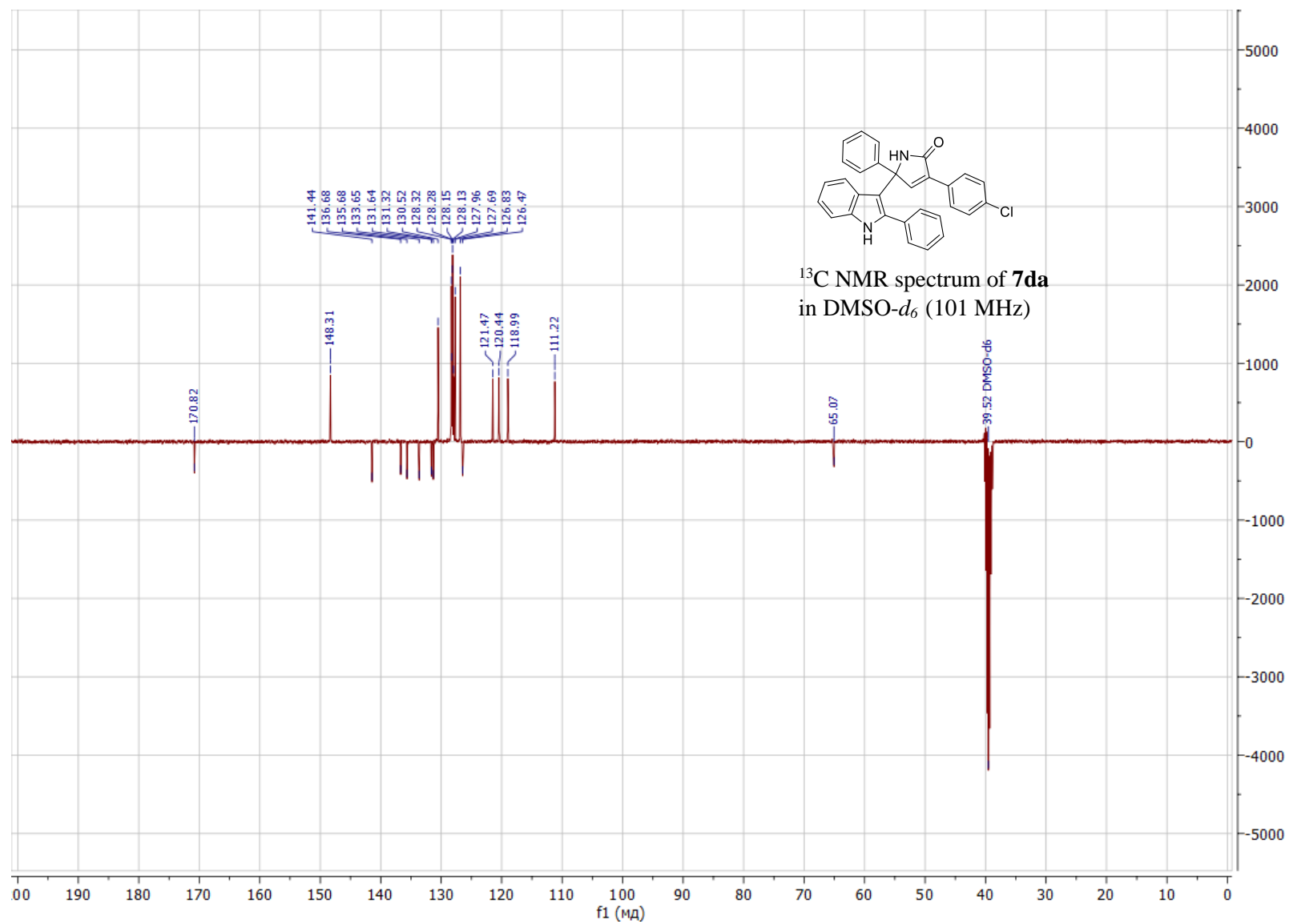


Figure S40 ¹³C NMR spectrum of **7da** in DMSO-*d*₆ (101 MHz)

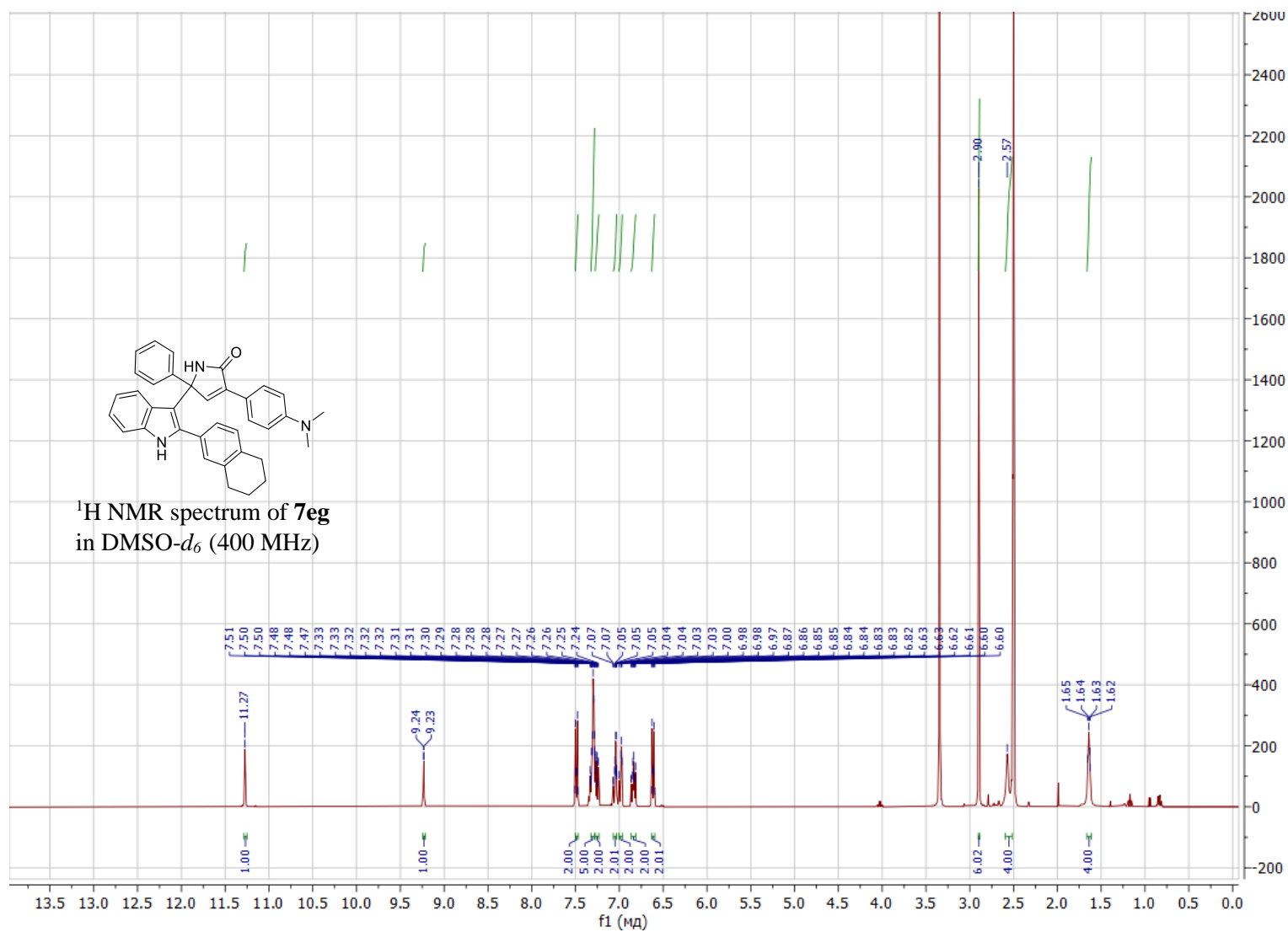


Figure S41. ¹H NMR spectrum of **7eg** in DMSO-*d*₆ (400 MHz)

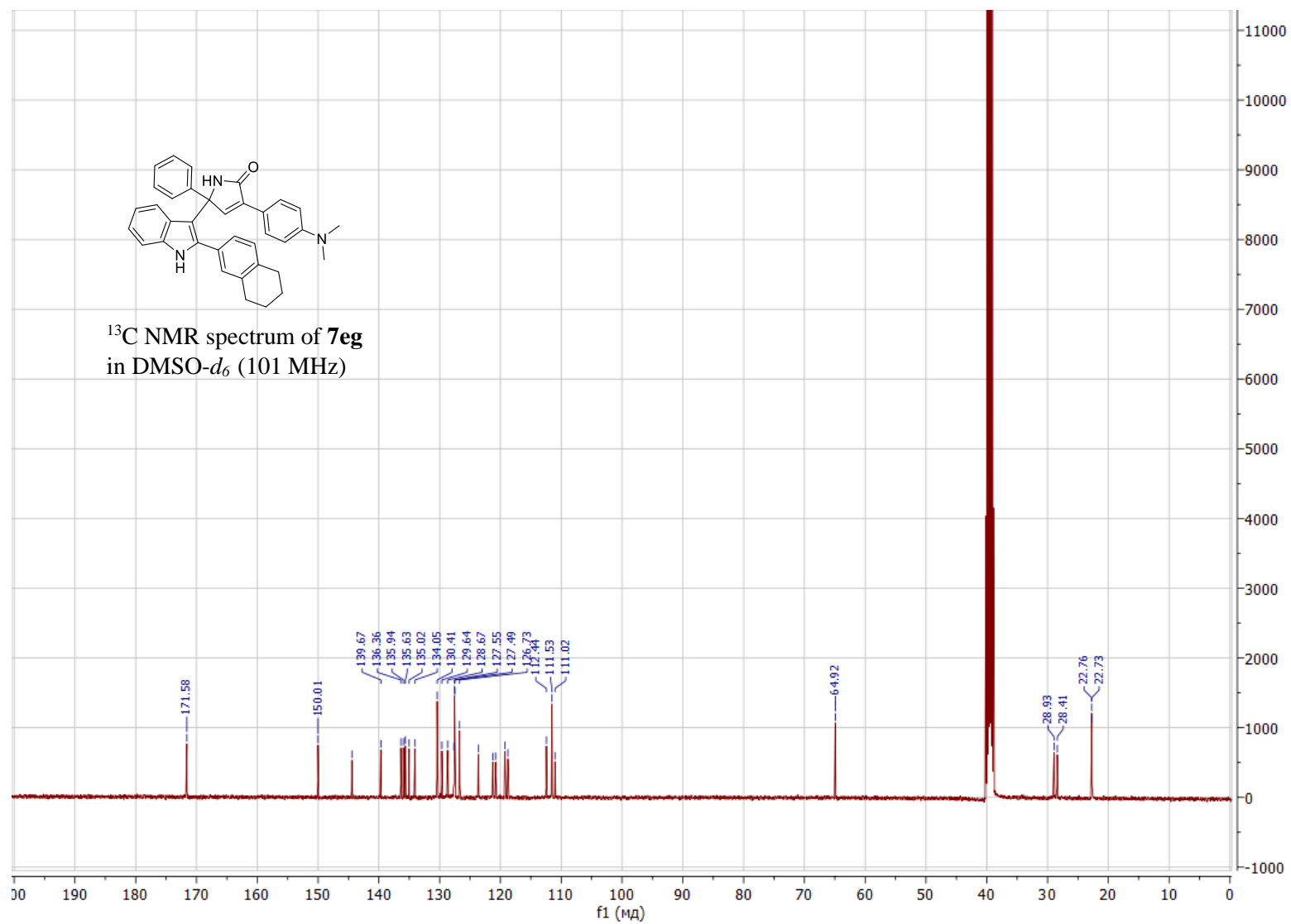


Figure S42. ^{13}C NMR spectrum of **7eg** in DMSO- d_6 (101 MHz)

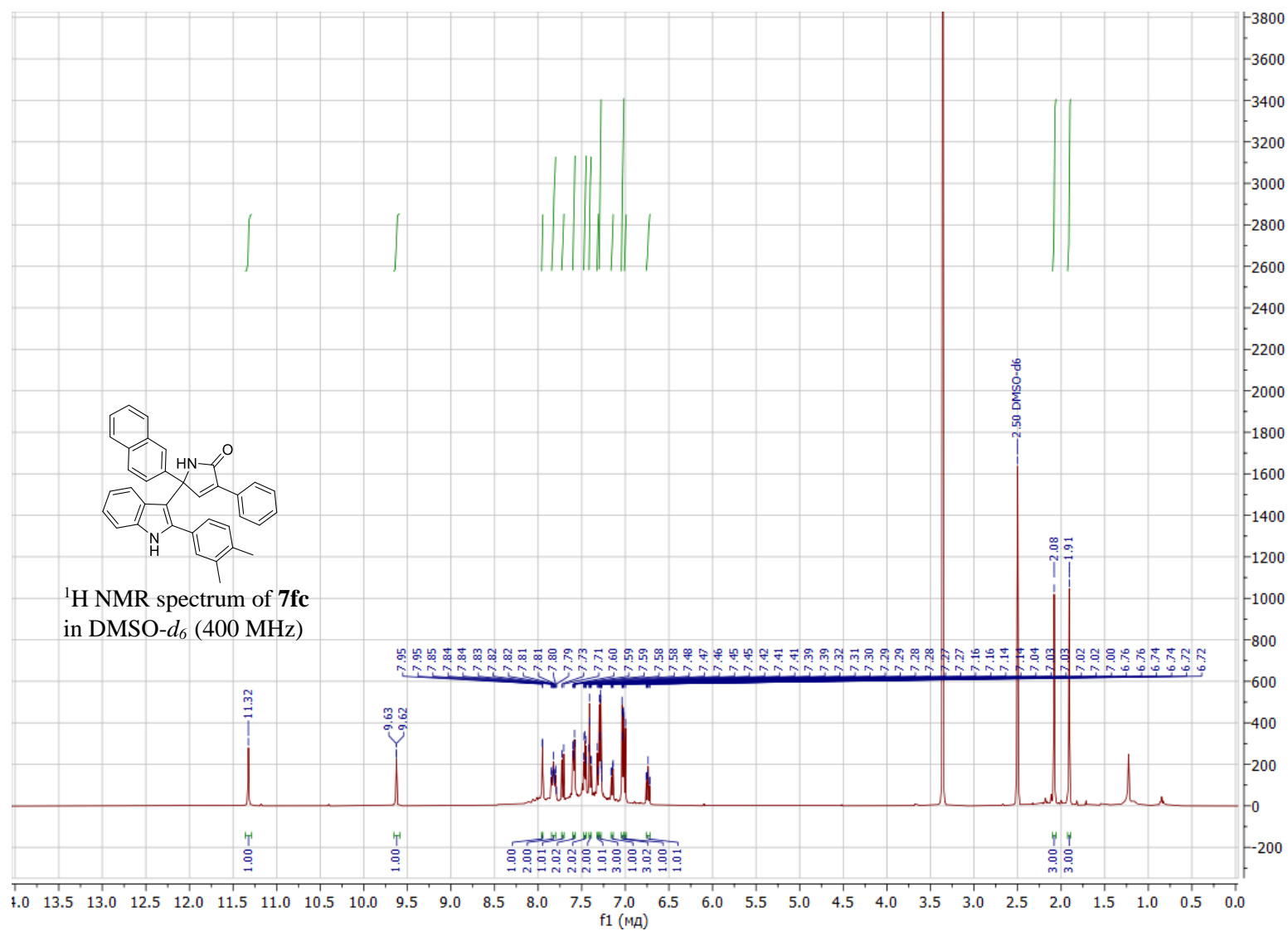


Figure S43. ¹H NMR spectrum of **7fc** in DMSO-*d*₆ (400 MHz)

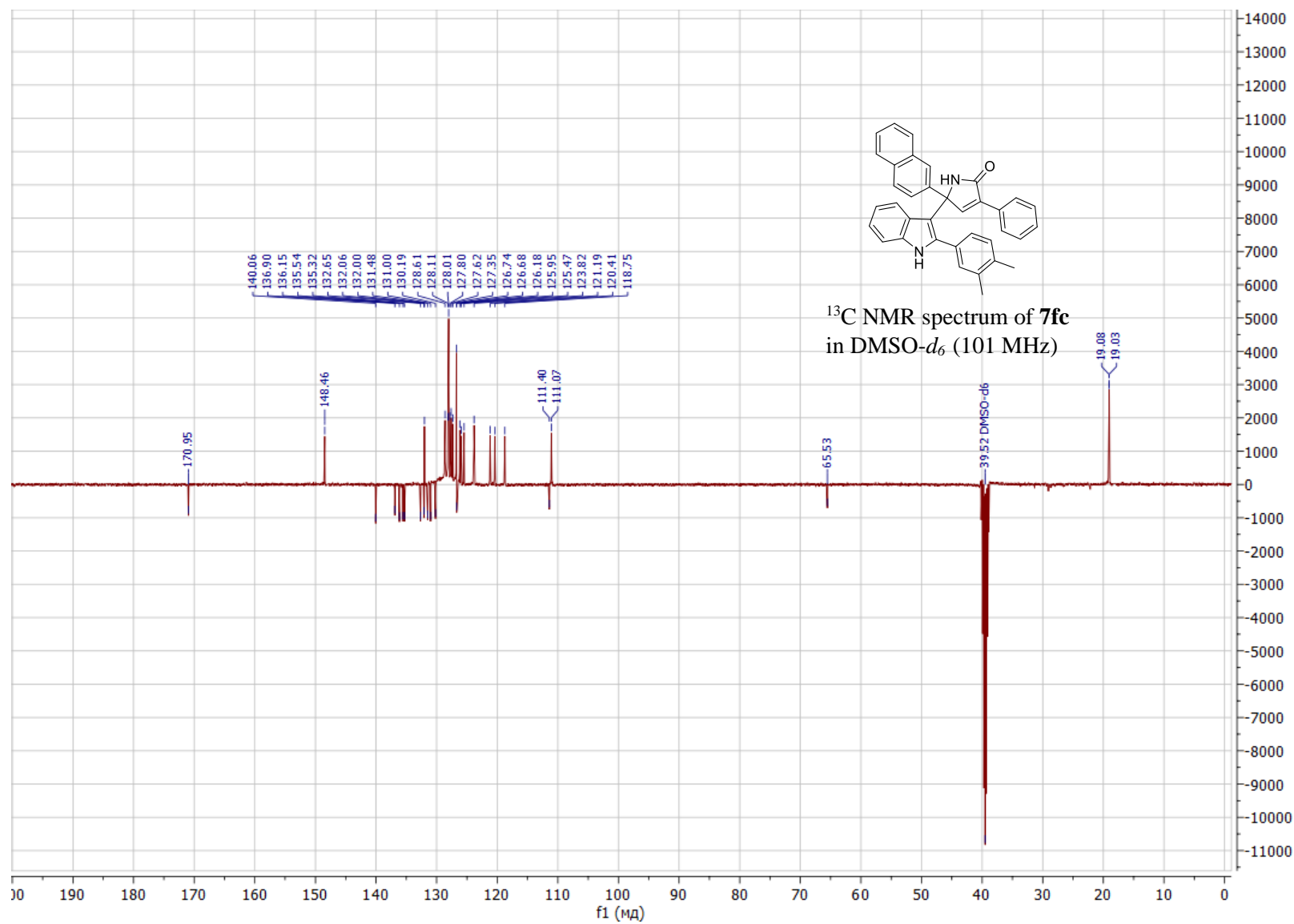


Figure S44. ¹³C NMR spectrum of **7fc** in DMSO-*d*₆ (101 MHz)

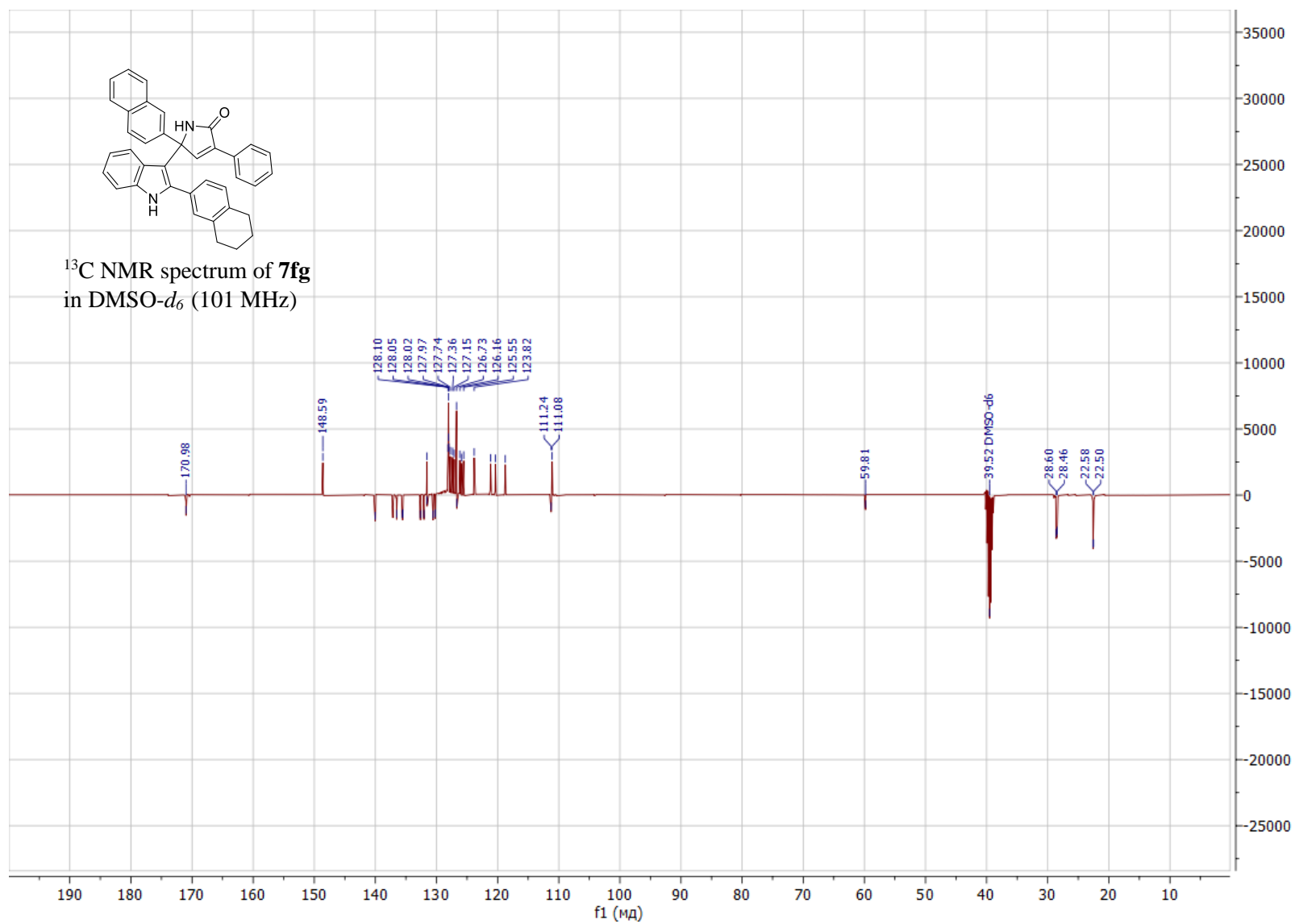


Figure S46. ¹³C NMR spectrum of **7fg** in DMSO-*d*₆ (101 MHz)

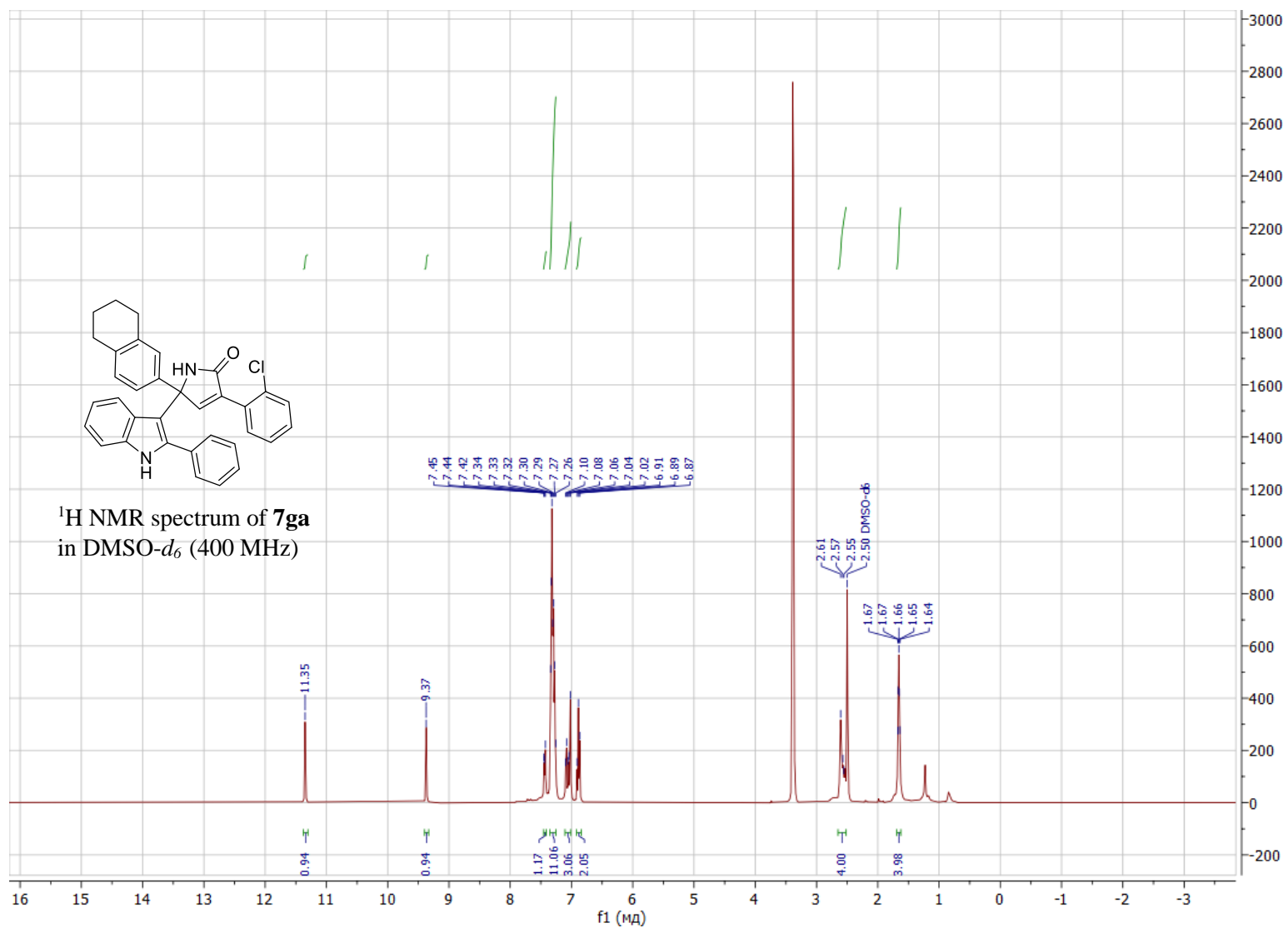


Figure S47. ^1H NMR spectrum of **7ga** in DMSO- d_6 (400 MHz)

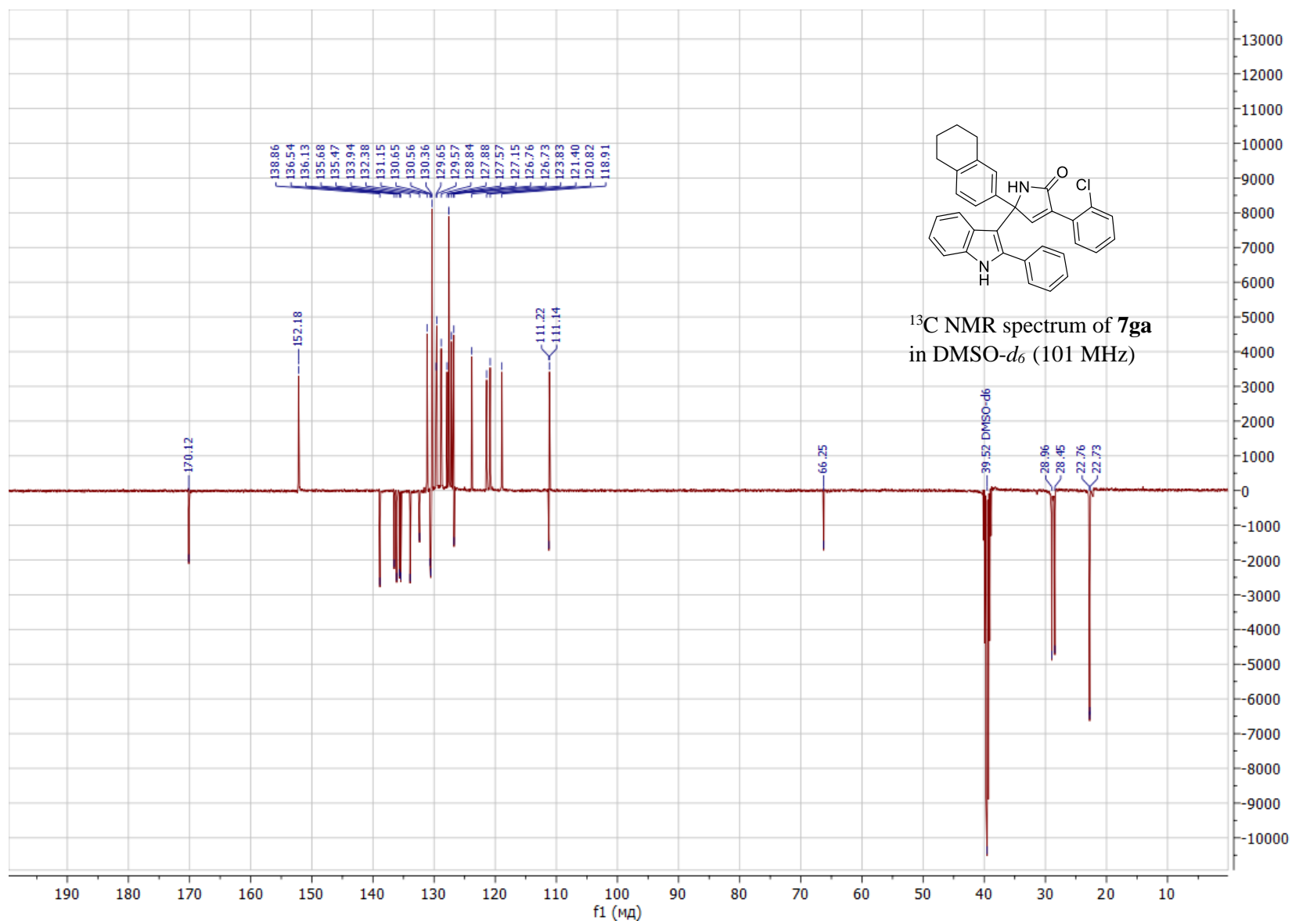
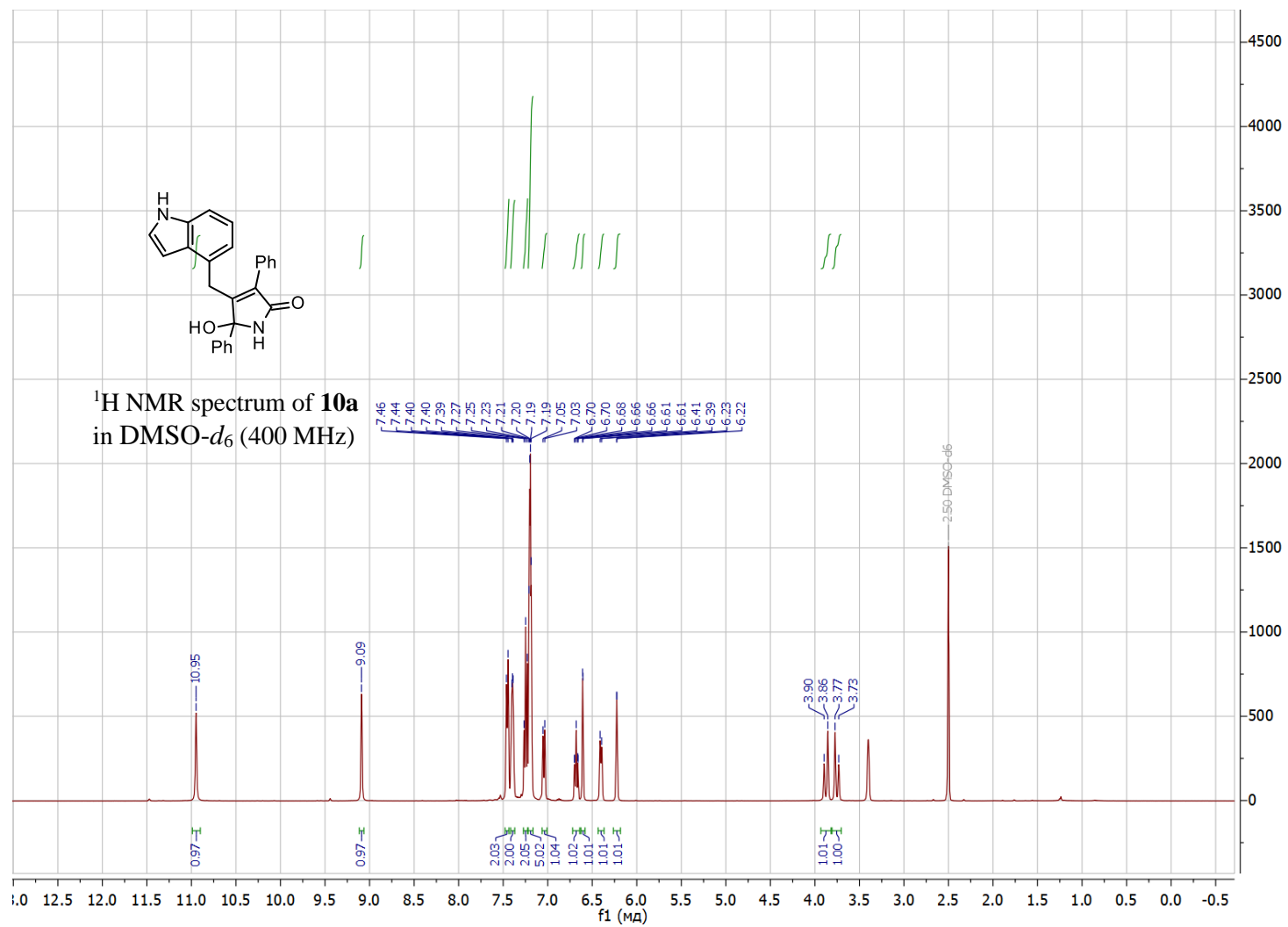


Figure S48. ¹³C NMR spectrum of **7ga** in DMSO-*d*₆ (101 MHz)

^1H and ^{13}C NMR spectral charts for indolyl hydroxypyrrolone **10a**



¹³C NMR spectrum of **10a**
in DMSO-*d*₆ (101 MHz)

Chemical structure of **10a** is shown in the top left corner. The structure is a 1,2,3,4-tetrahydronaphthalene derivative with a carboxamide group and a phenyl group.

The spectrum displays the following chemical shifts (ppm):

- 171.26
- 156.85
- 140.46
- 135.29
- 131.46
- 131.06
- 128.74
- 128.52
- 127.96
- 127.68
- 127.61
- 126.90
- 126.00
- 124.46
- 120.54
- 118.01
- 109.24
- 99.30
- 88.39
- 39.52 (DMSO-*d*₆)
- 28.65