

**One-pot domino cyclization of chiral pinane amino alcohols
with ethyl 4,4,4-trifluoroacetoacetate and acetone**

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NMR spectra of obtained compounds

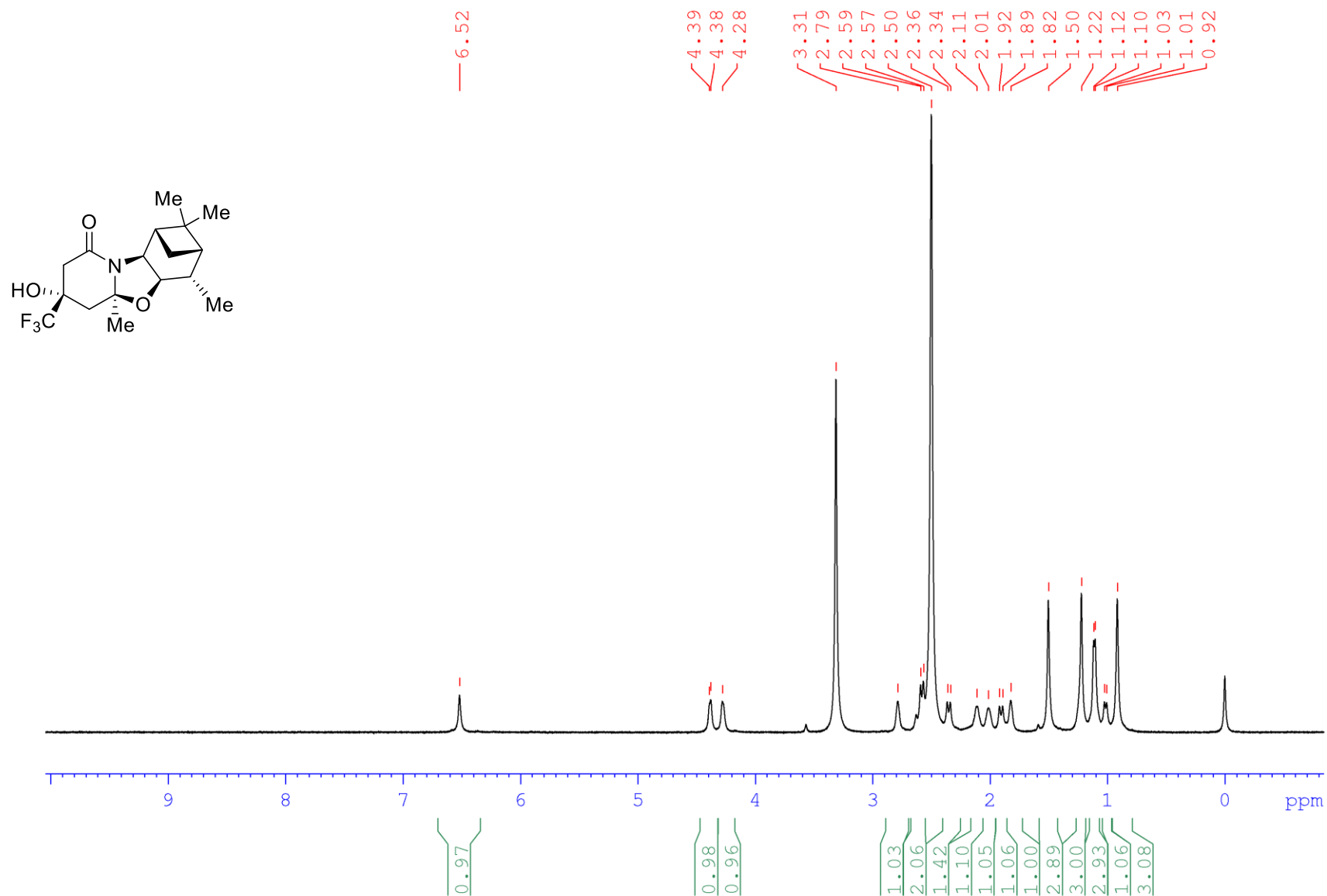


Figure S1. ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of *trans*-(SS)-6.

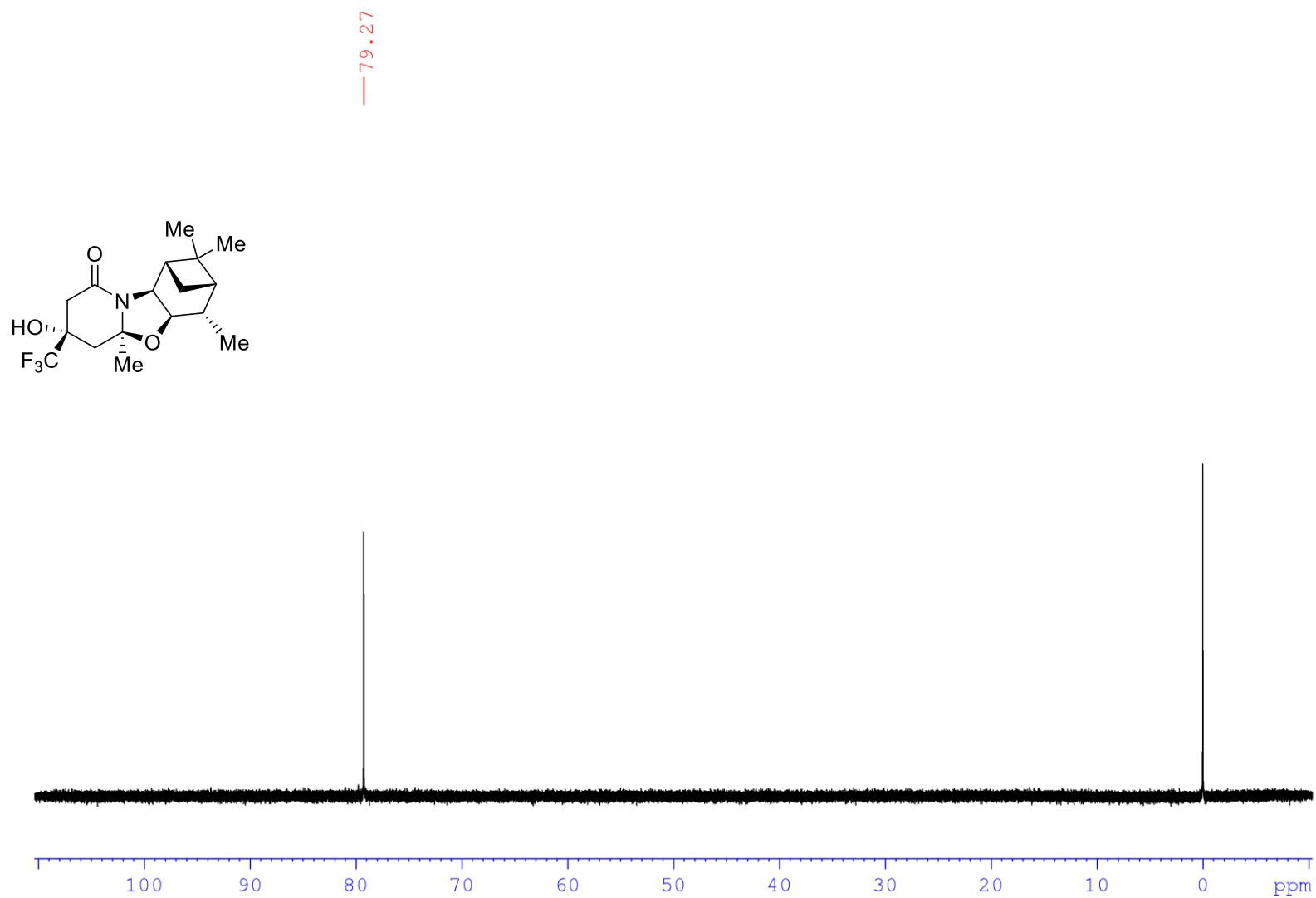


Figure S3. ^{19}F NMR (376 MHz, DMSO- d_6) spectrum of *trans*-(SS)-6.

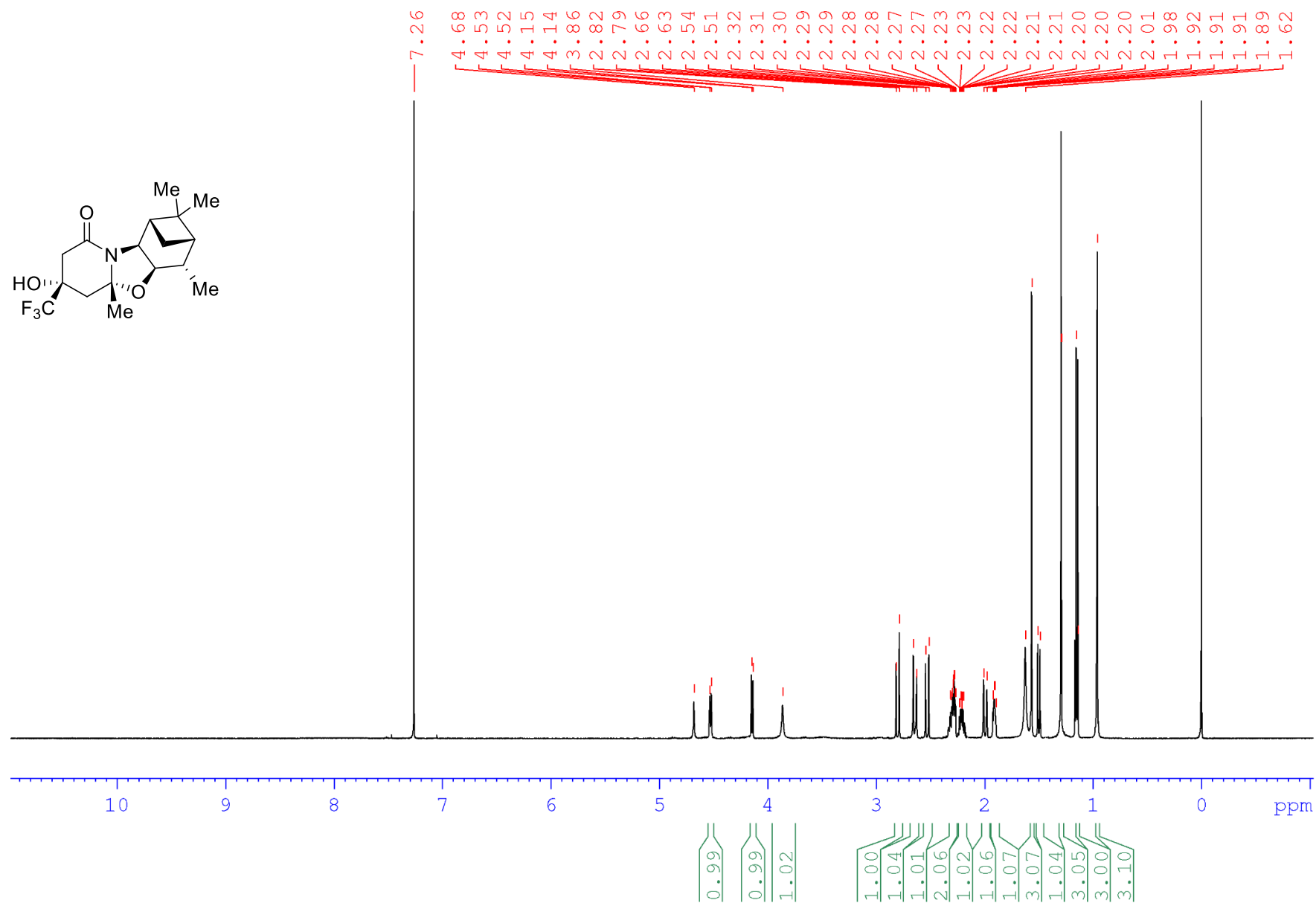


Figure S4. ¹H NMR (500 MHz, CDCl₃) spectrum of *cis*-(*SR*)-6.

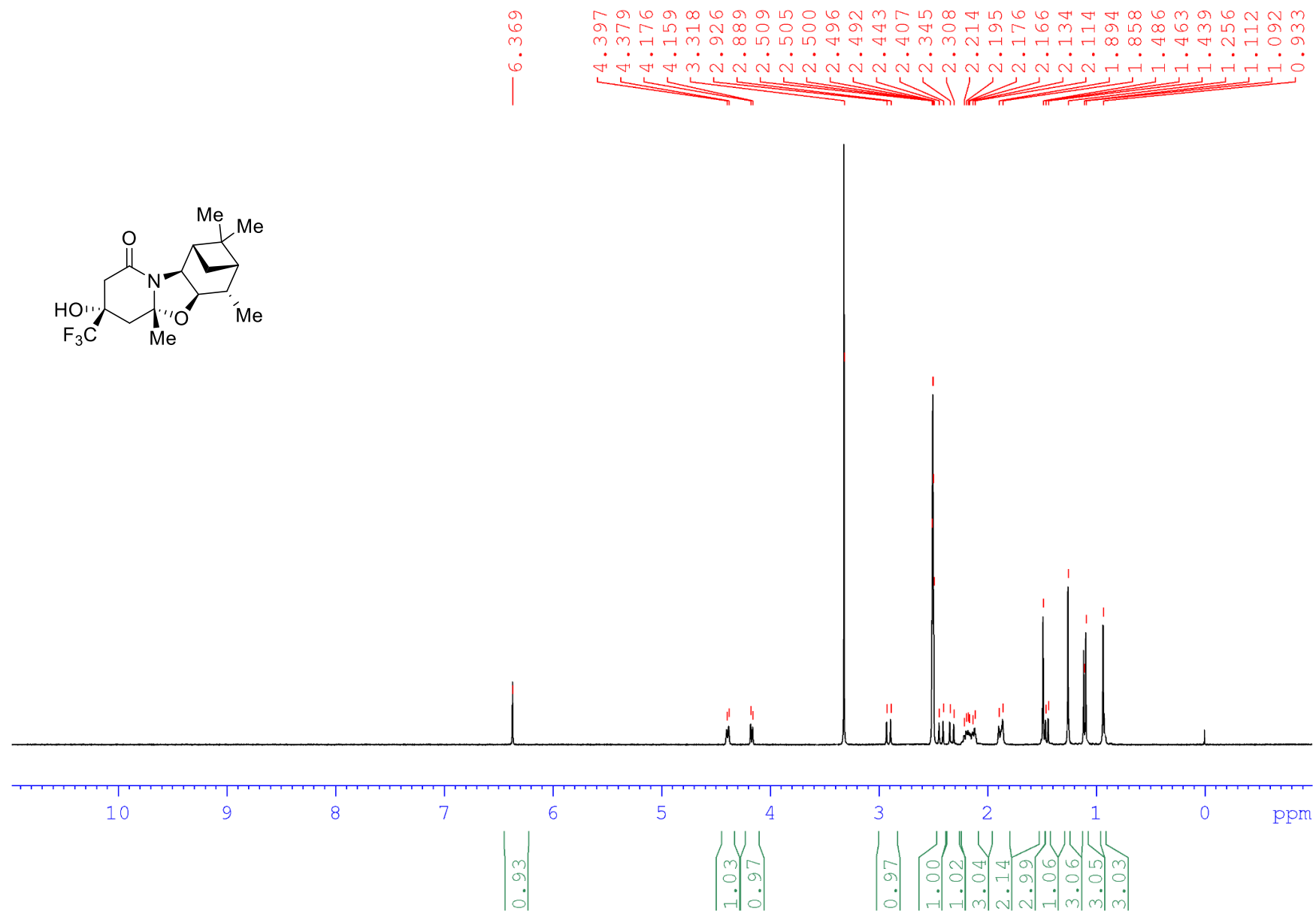


Figure S5. ^1H NMR (400 MHz, $\text{DMSO}-d_6$) spectrum of *cis*-(*SR*)-6.

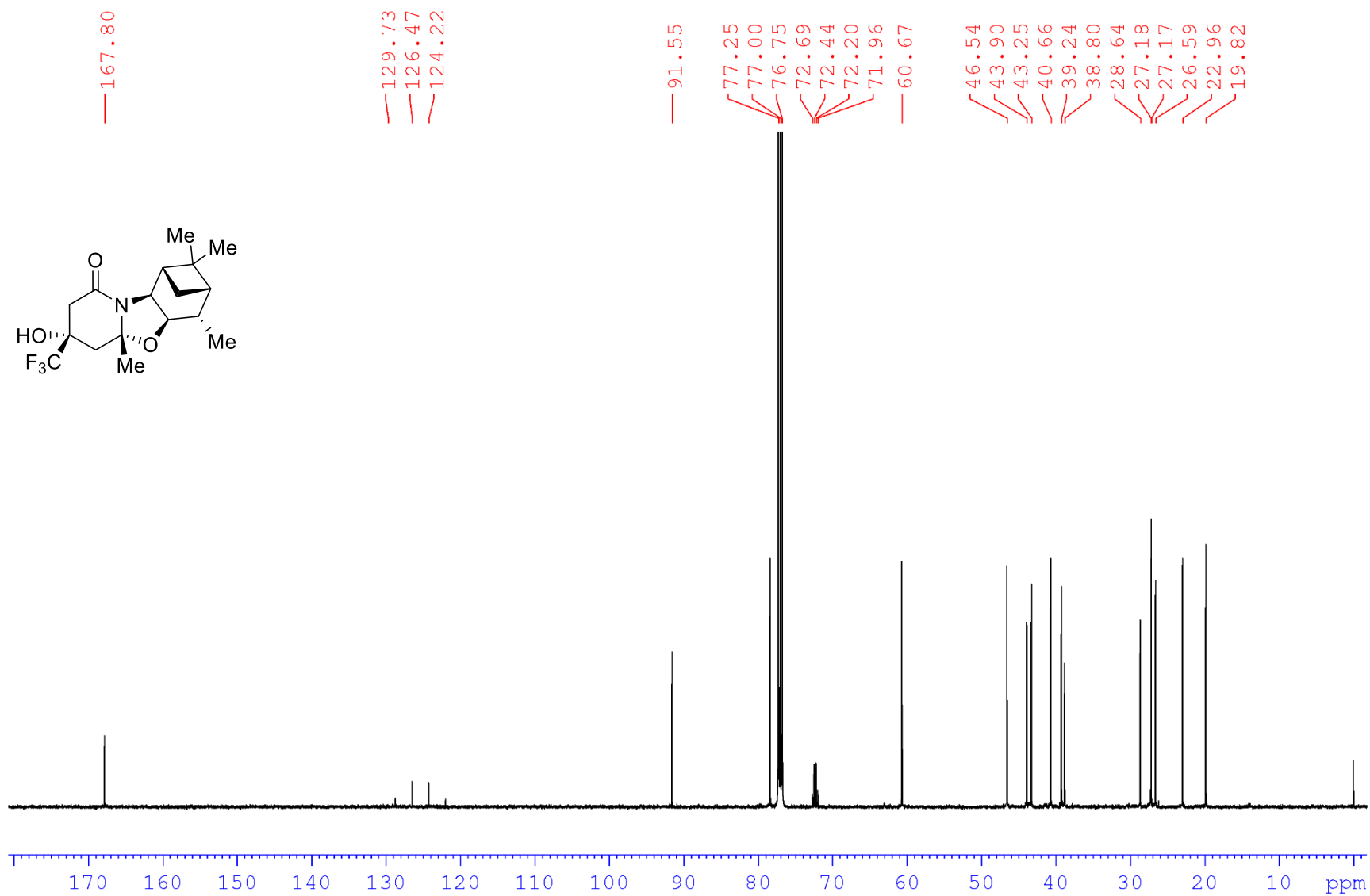


Figure S6. ¹³C NMR (126 MHz, CDCl₃) spectrum of *cis*-(*SR*)-6.

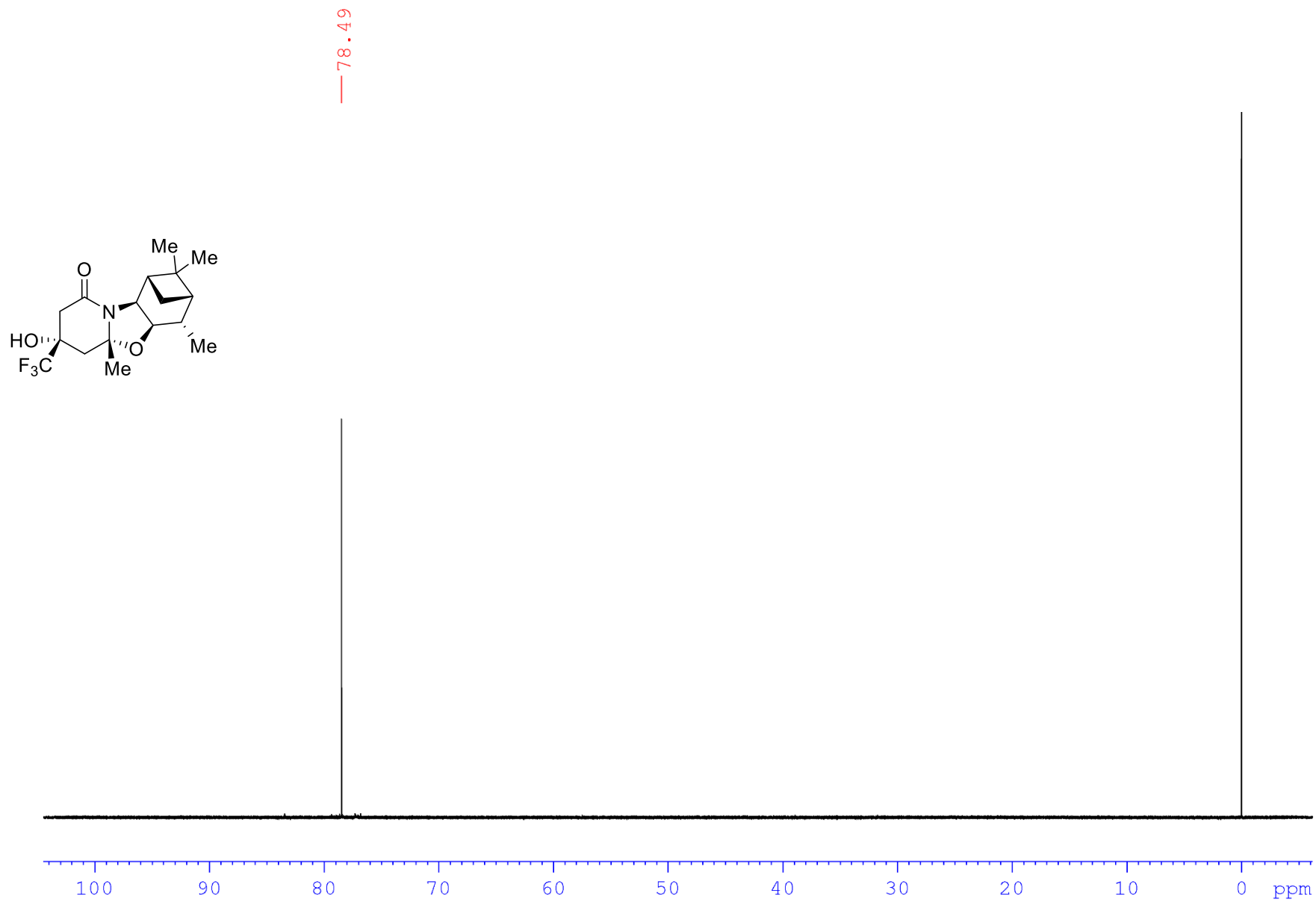


Figure S7. ^{19}F NMR (470 MHz, CDCl_3) spectrum of *cis*-(*SR*)-**6**.

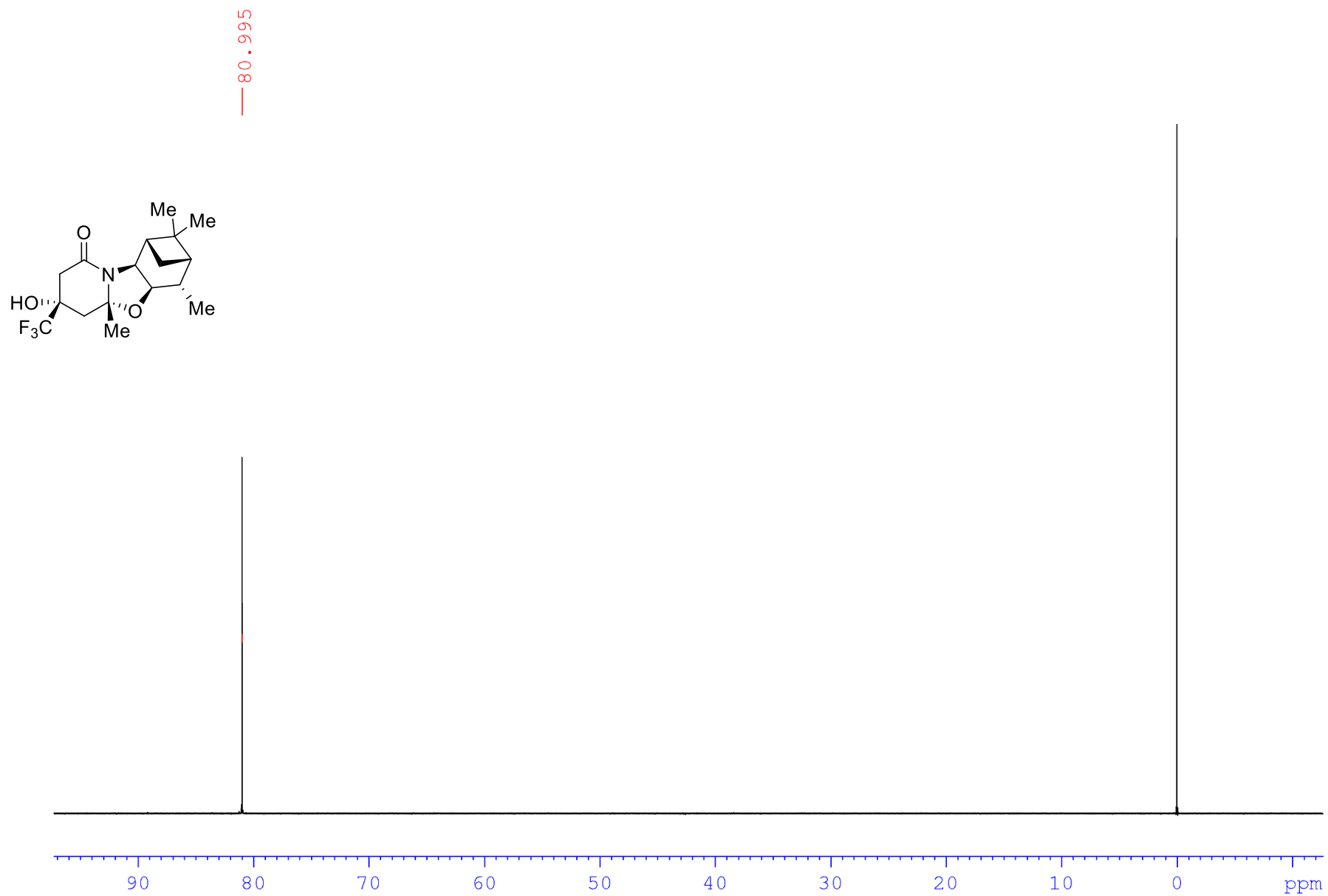


Figure S8. ^{19}F NMR (376 MHz, $\text{DMSO}-d_6$) spectrum of *cis*-(*SR*)-6.

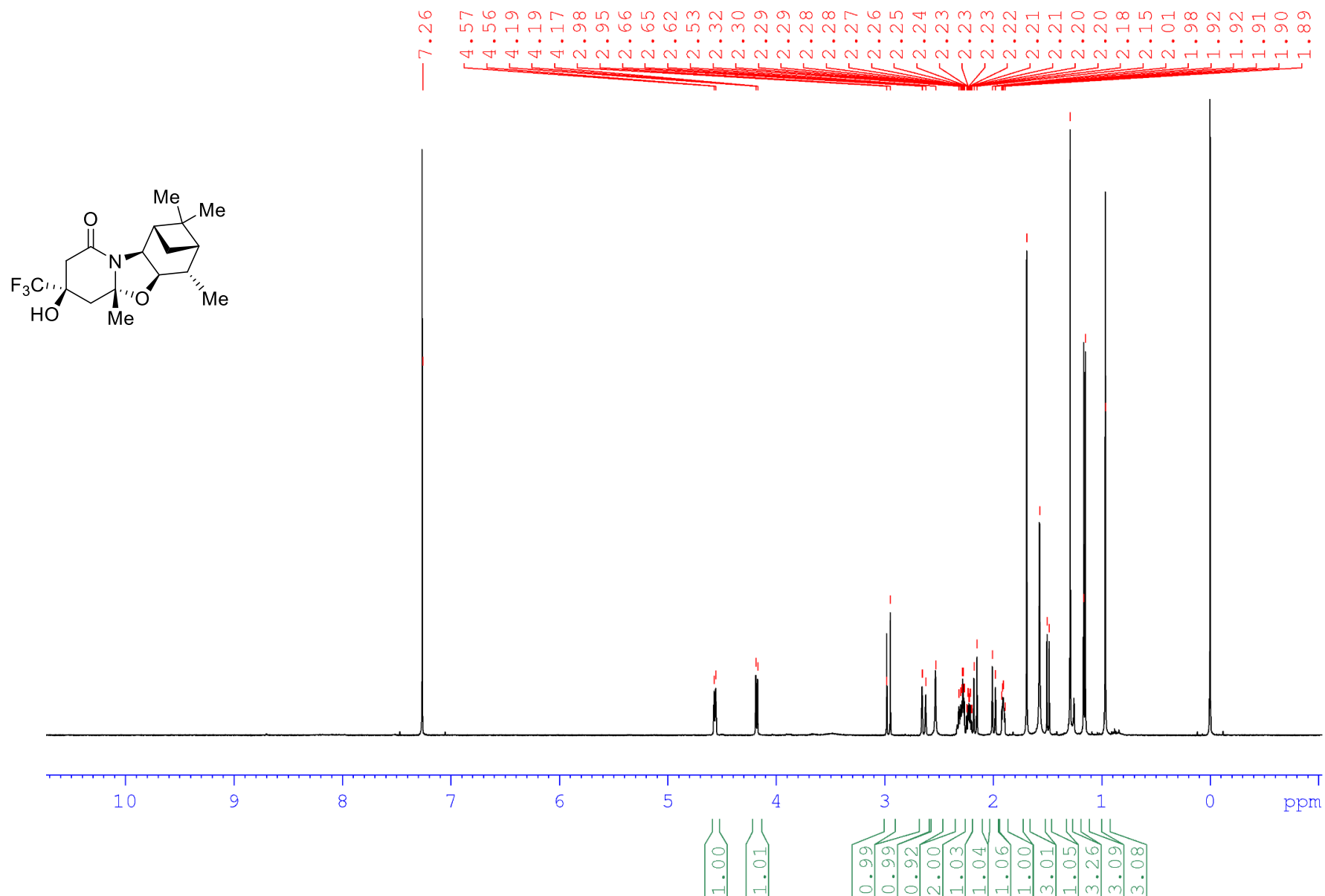


Figure S9. ¹H NMR (500 MHz, CDCl₃) spectrum of *trans*-(*RR*)-6.

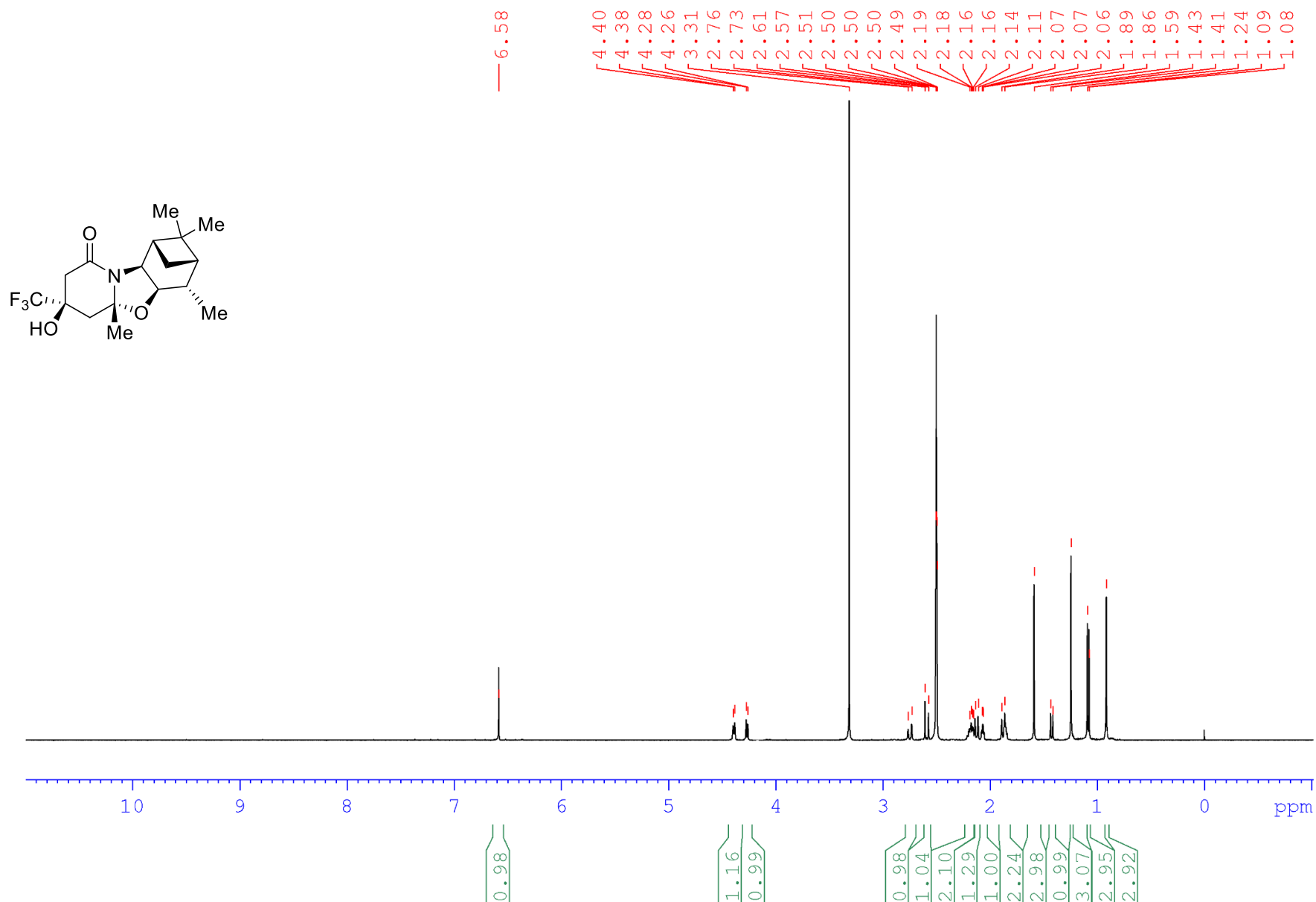


Figure S10. ^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of *trans*-(RR)-6.

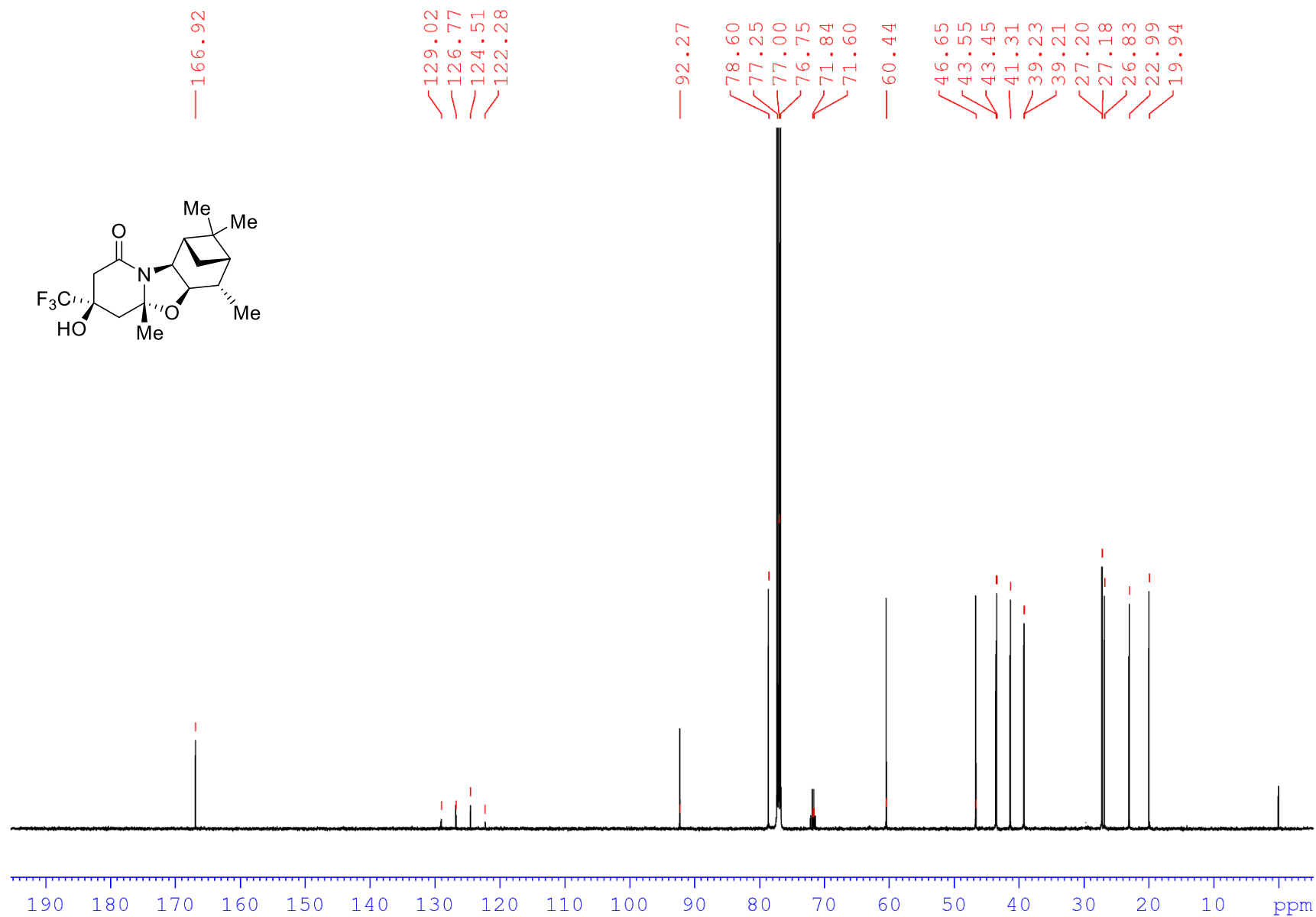


Figure S11. ^{13}C NMR (126 MHz, CDCl_3) spectrum of *cis*-(RR)-6.

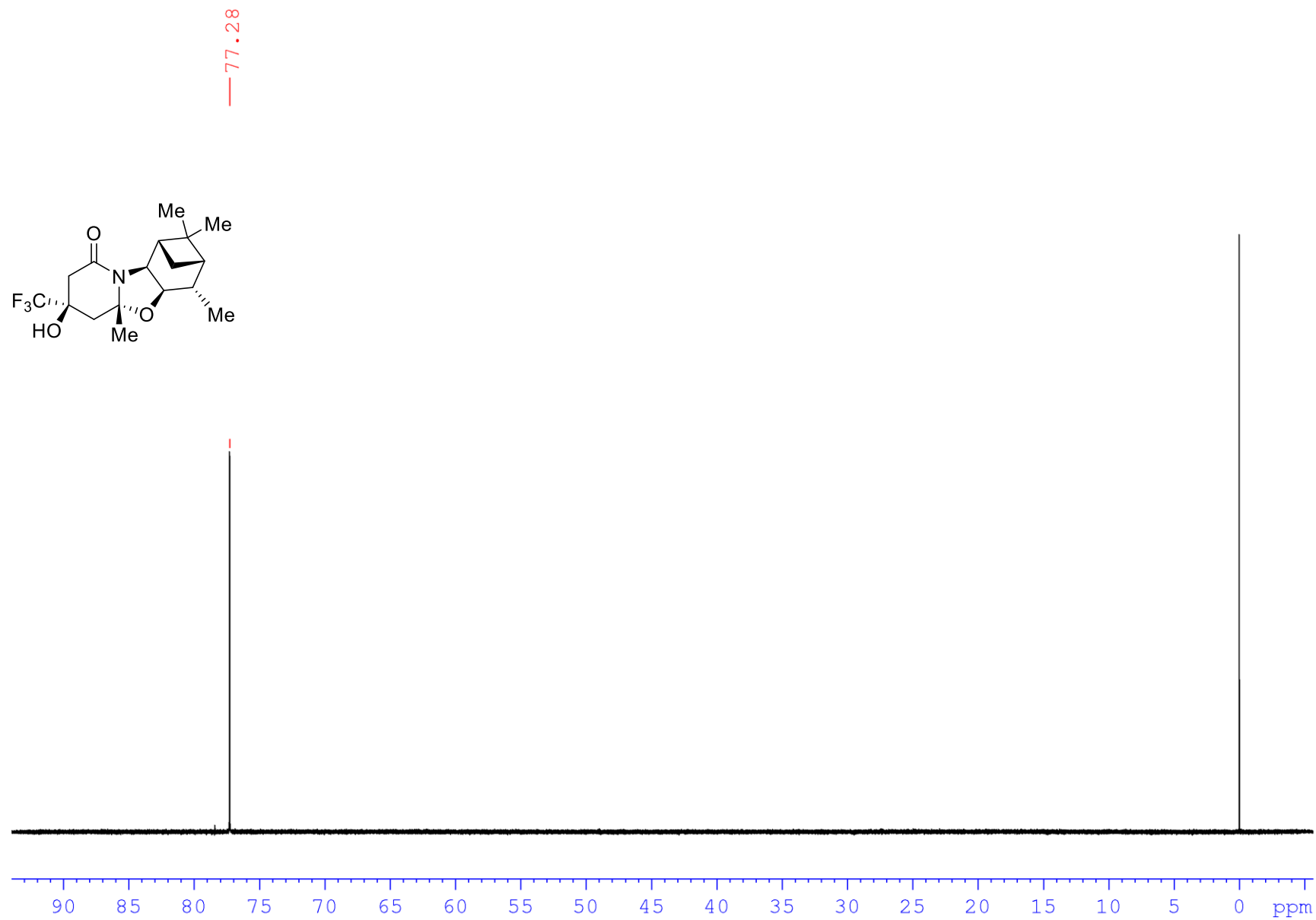


Figure S12. ^{19}F NMR (470 MHz, CDCl_3) spectrum of *cis*-(*RR*)-**6**.

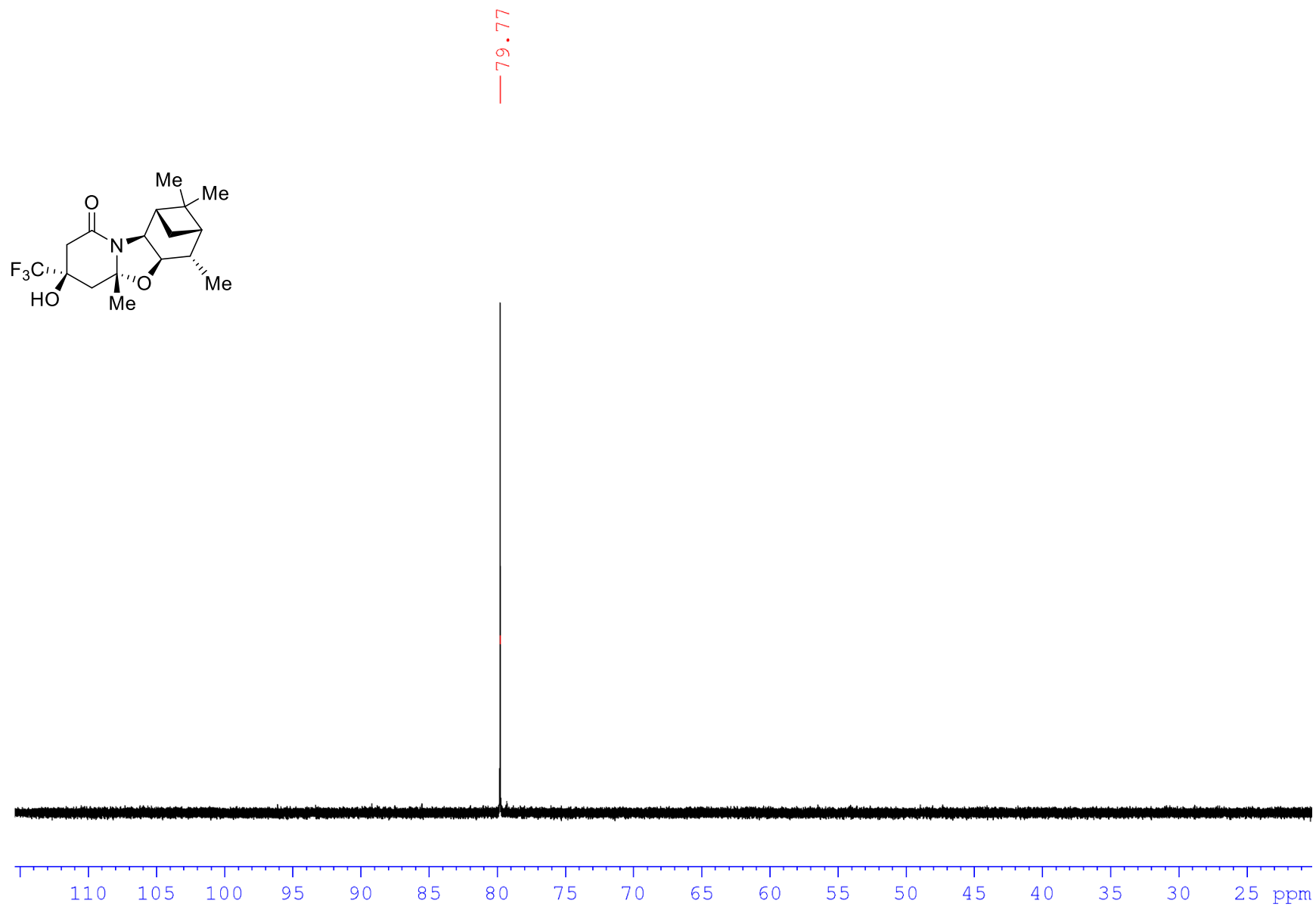


Figure S13. ^{19}F NMR (470 MHz, $\text{DMSO}-d_6$) spectrum of *cis*-(*RR*)-**6**.

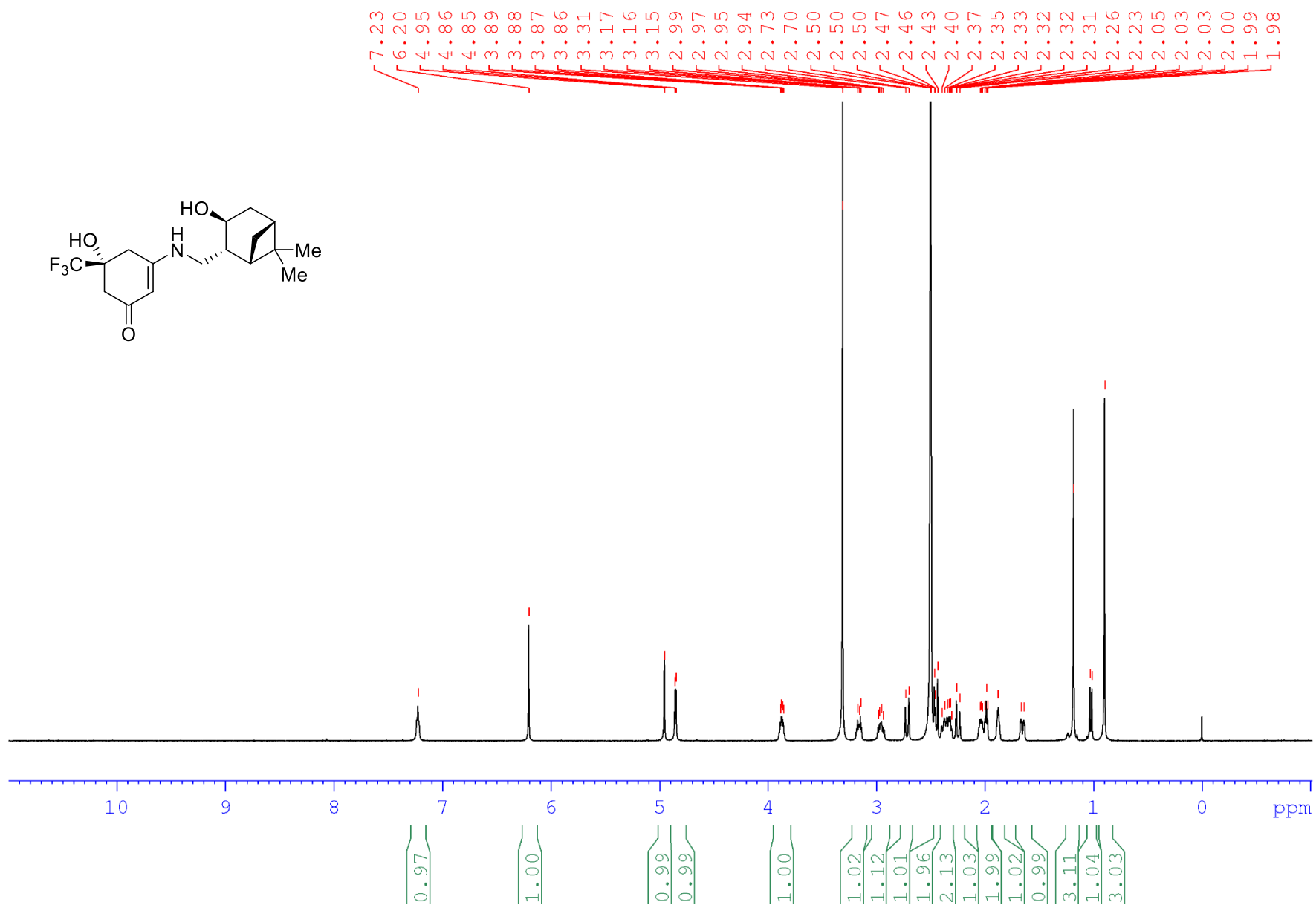


Figure S14. ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of (R)-7.

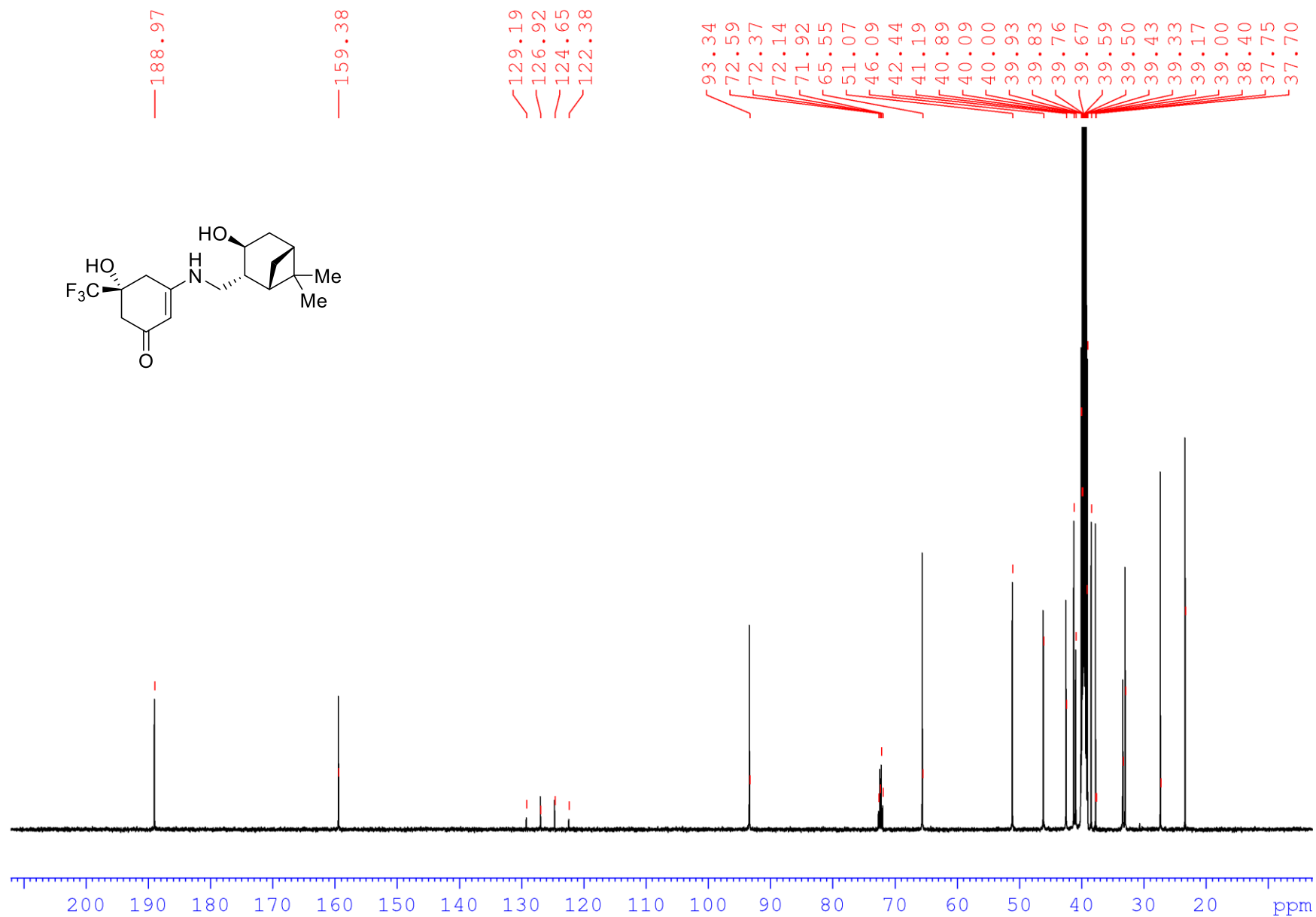


Figure S15. ¹³C NMR (126 MHz, DMSO-*d*₆) spectrum of (R)-7.

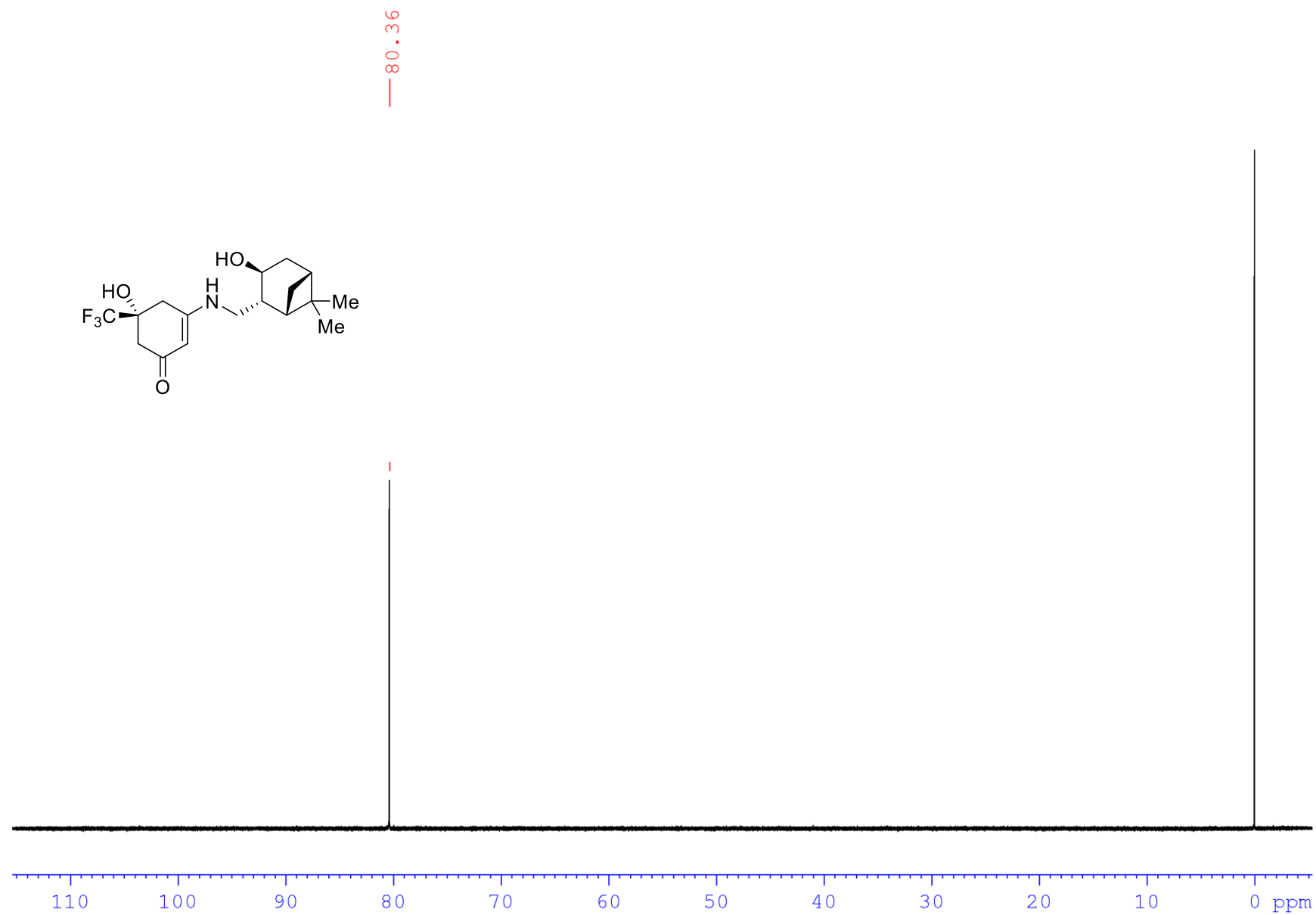


Figure S16. ^{19}F NMR (470 MHz, $\text{DMSO-}d_6$) spectrum of *(R)*-7.

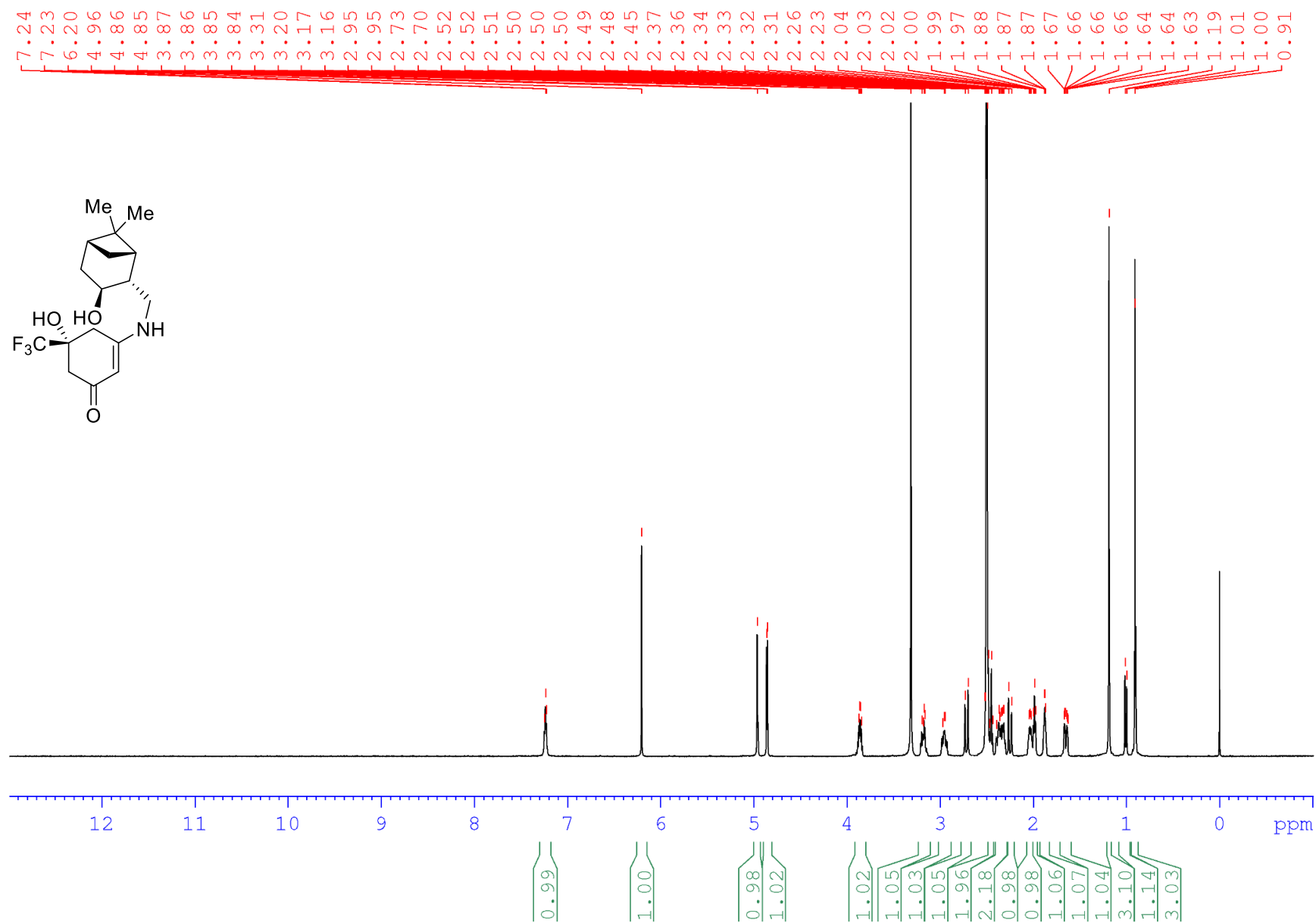


Figure S17. ¹H NMR (500 MHz, DMSO-*d*₆) spectrum of (*R*)-7'.

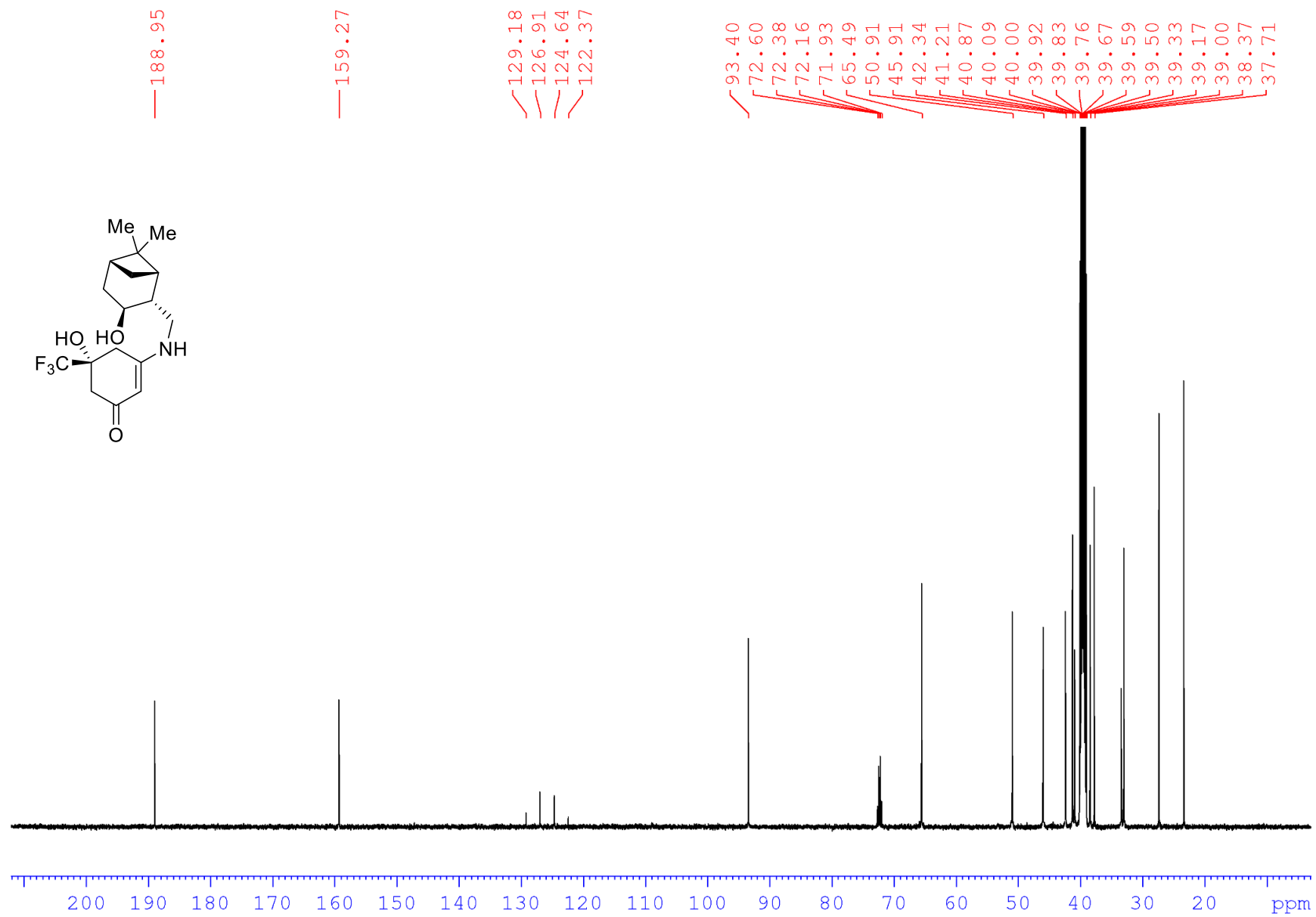


Figure S18. ¹³C NMR (126 MHz, DMSO-*d*₆) spectrum of (R)-7'.

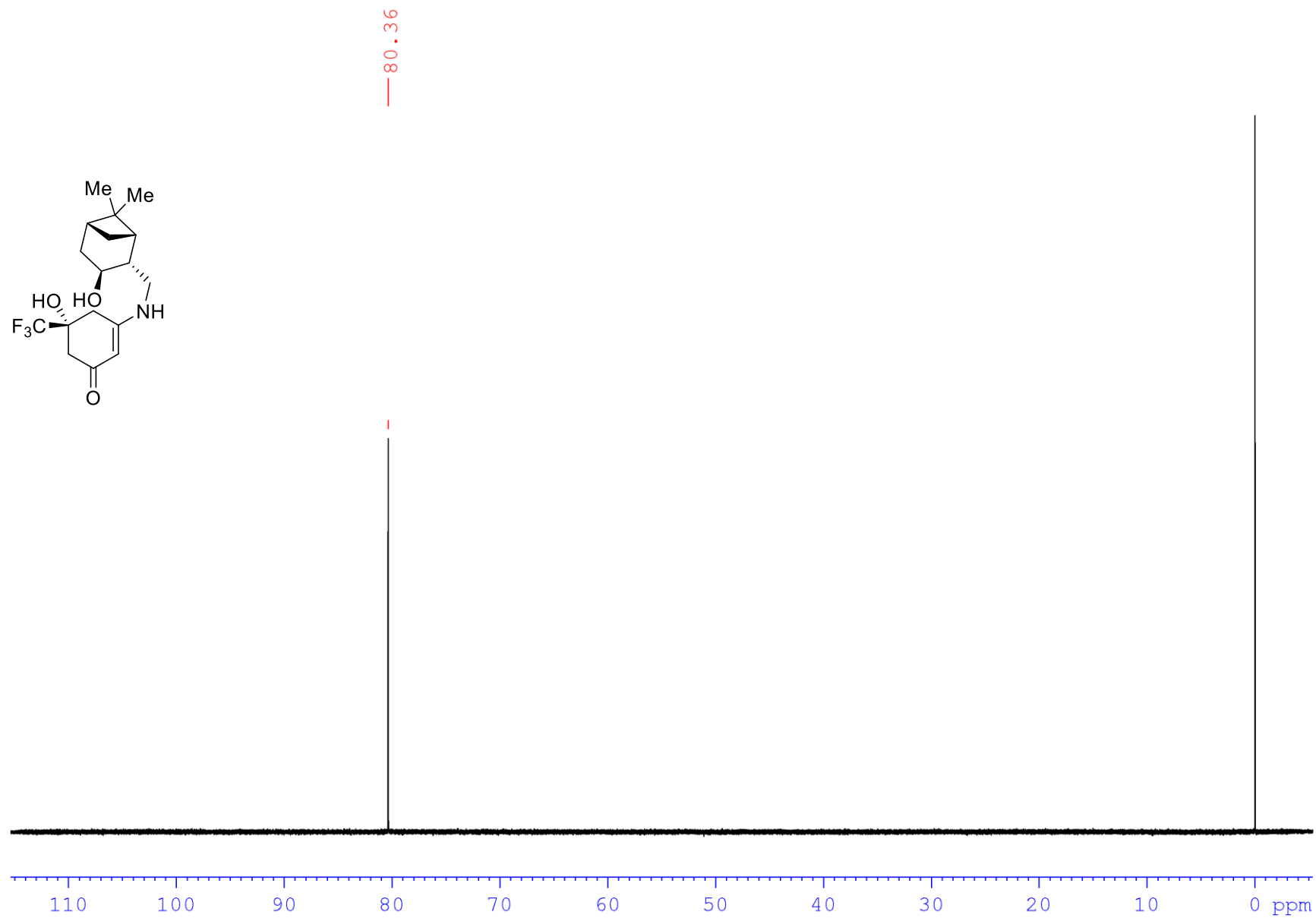


Figure S19. ^{19}F NMR (470 MHz, $\text{DMSO-}d_6$) spectrum of (R) -7'.