

Supplementary Information

Synthesis and antimicrobial activity of new Mannich bases with piperazine moiety

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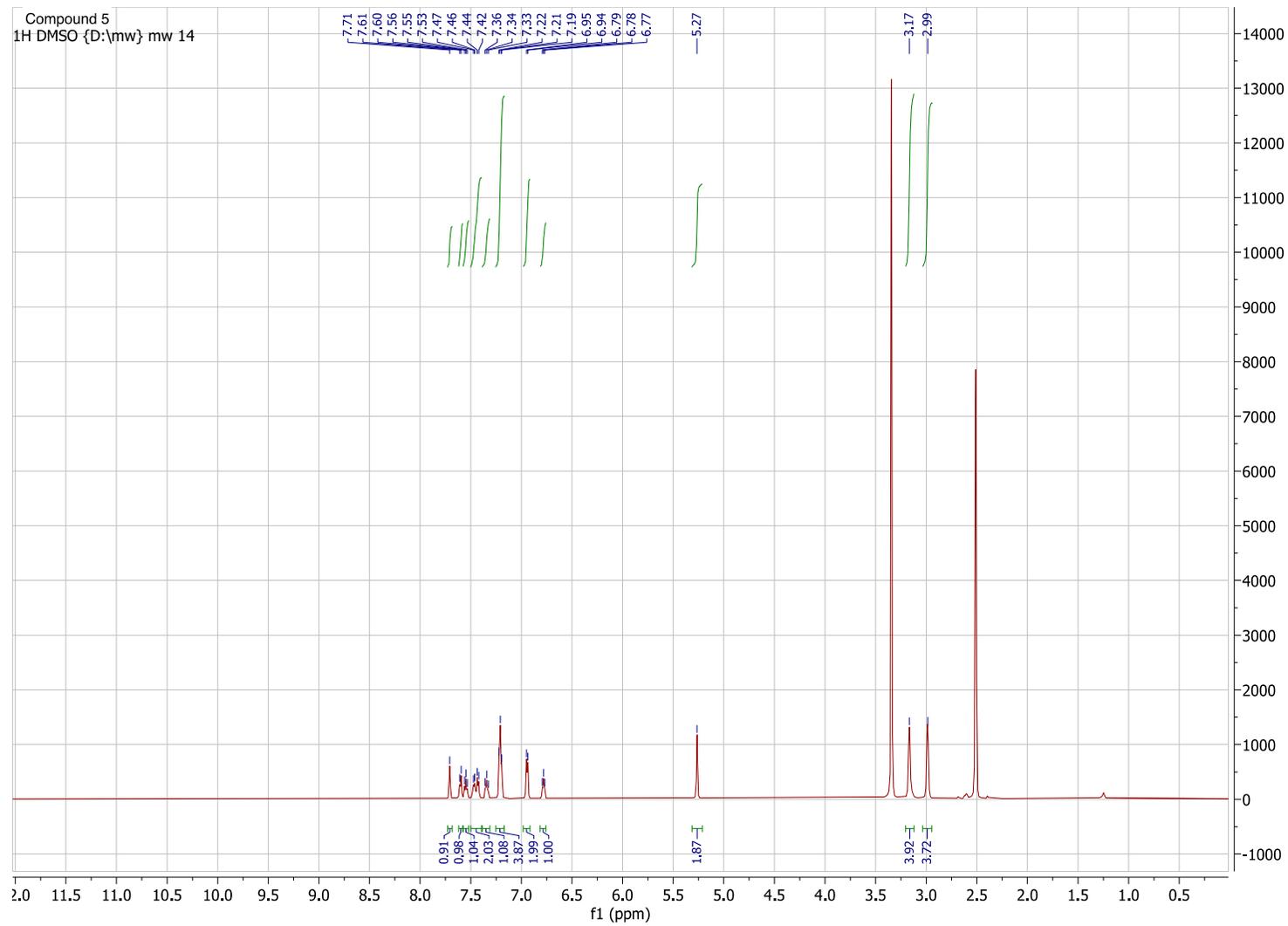


Figure S1. The ¹H NMR of compound 5.

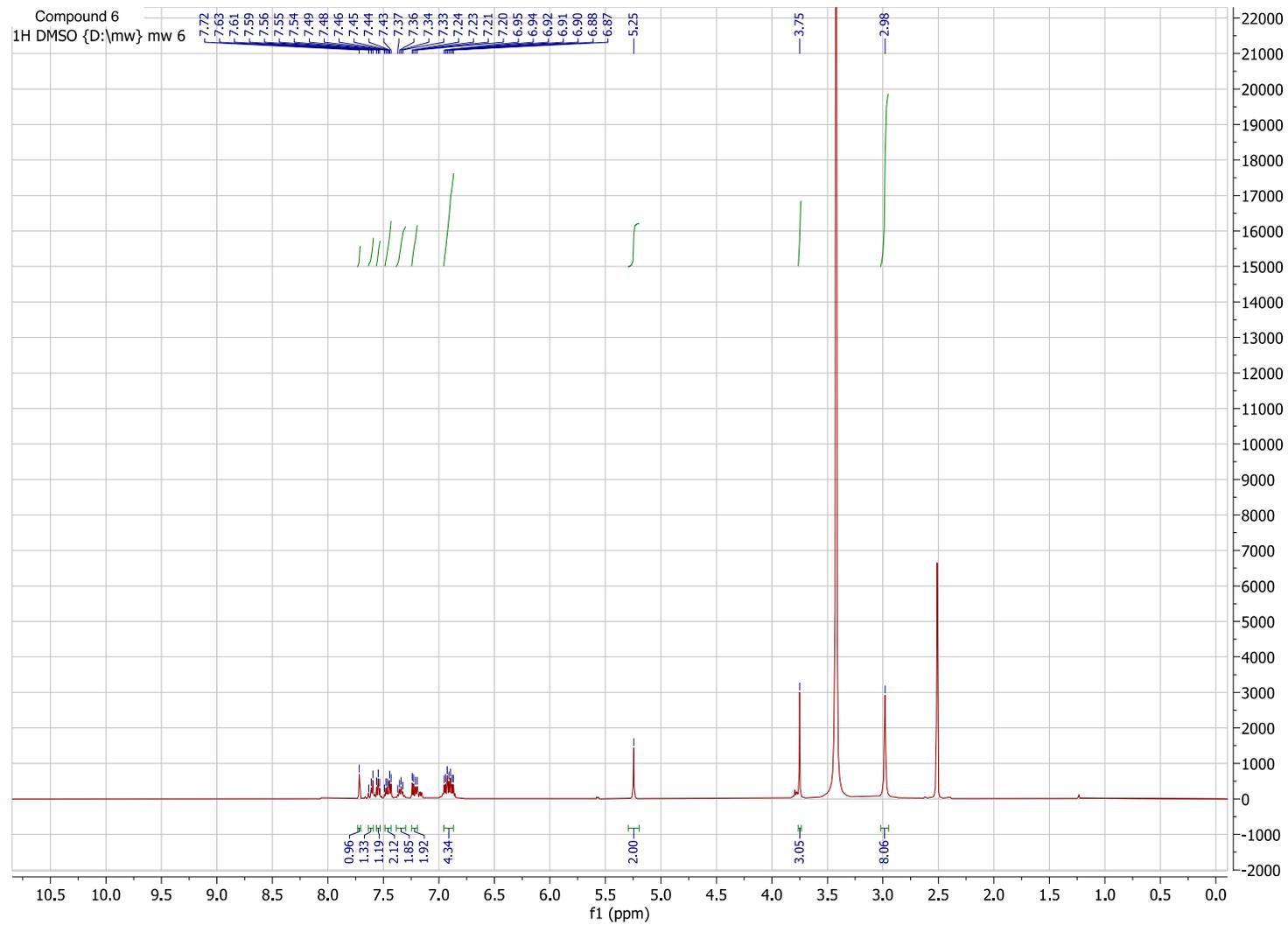


Figure S2. The ^1H NMR of compound 6.

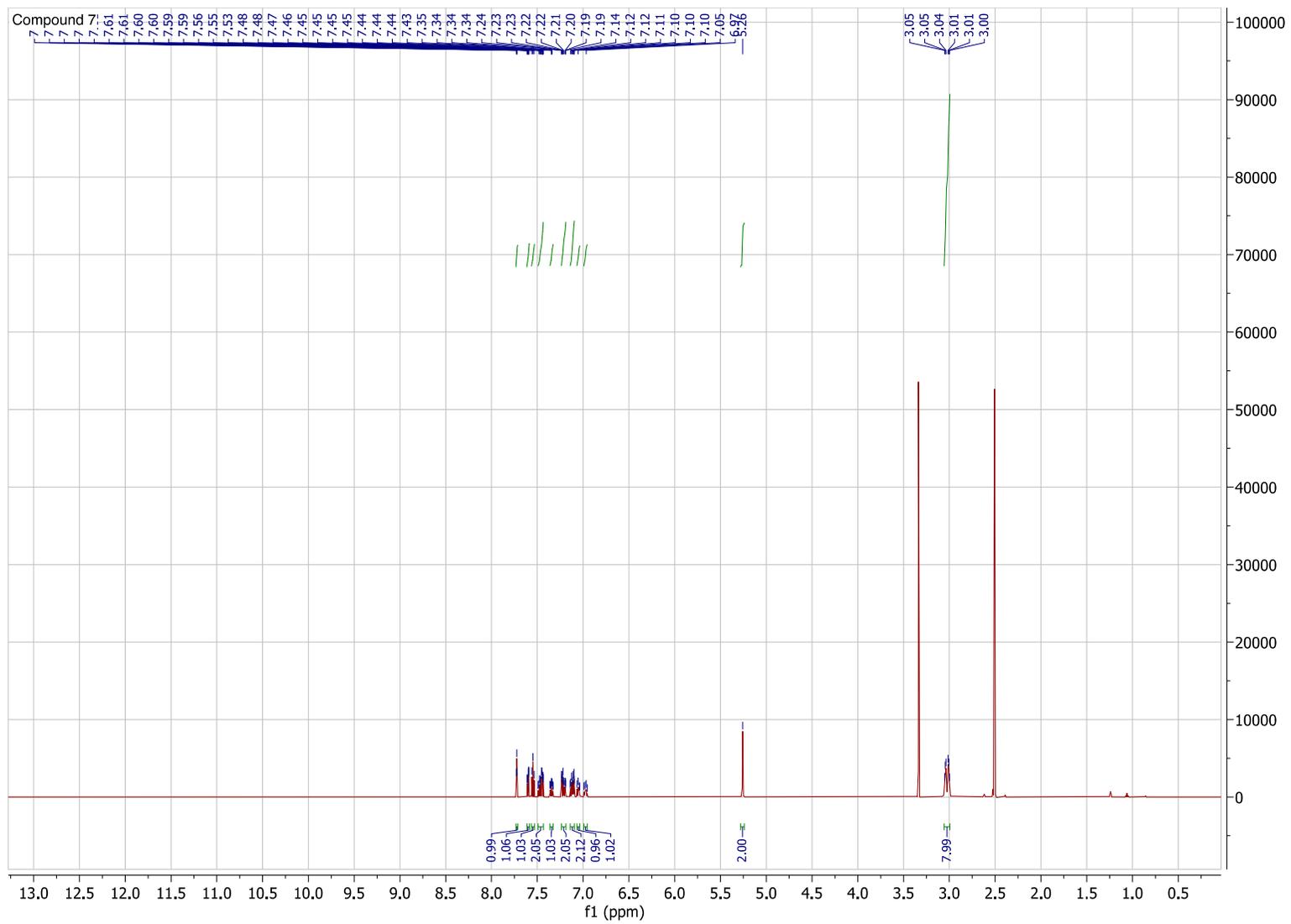


Figure S3. The ^1H NMR of compound 7.

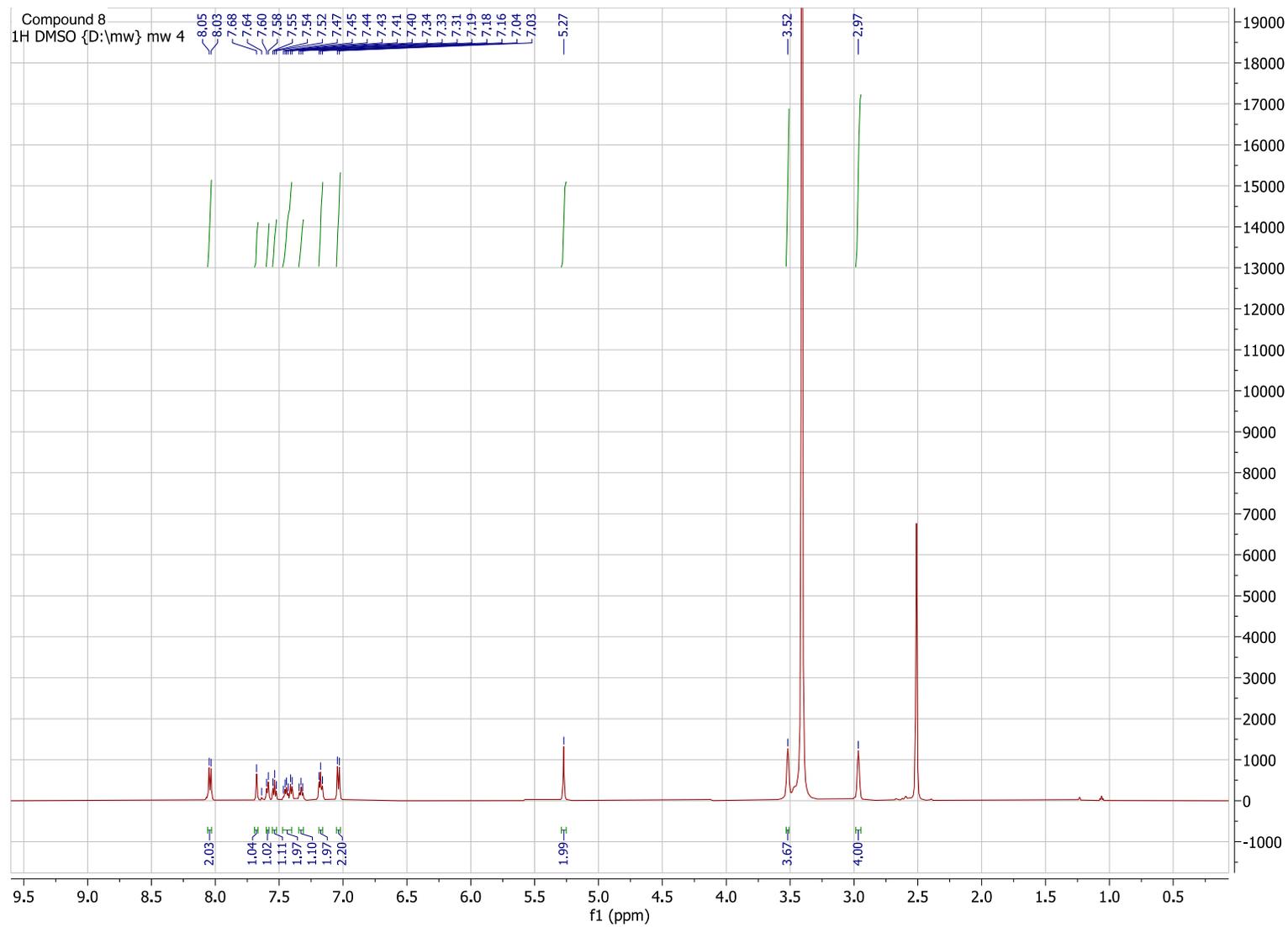


Figure S4. The ^1H NMR of compound 8.



Figure S5. The ^1H NMR of compound 9.

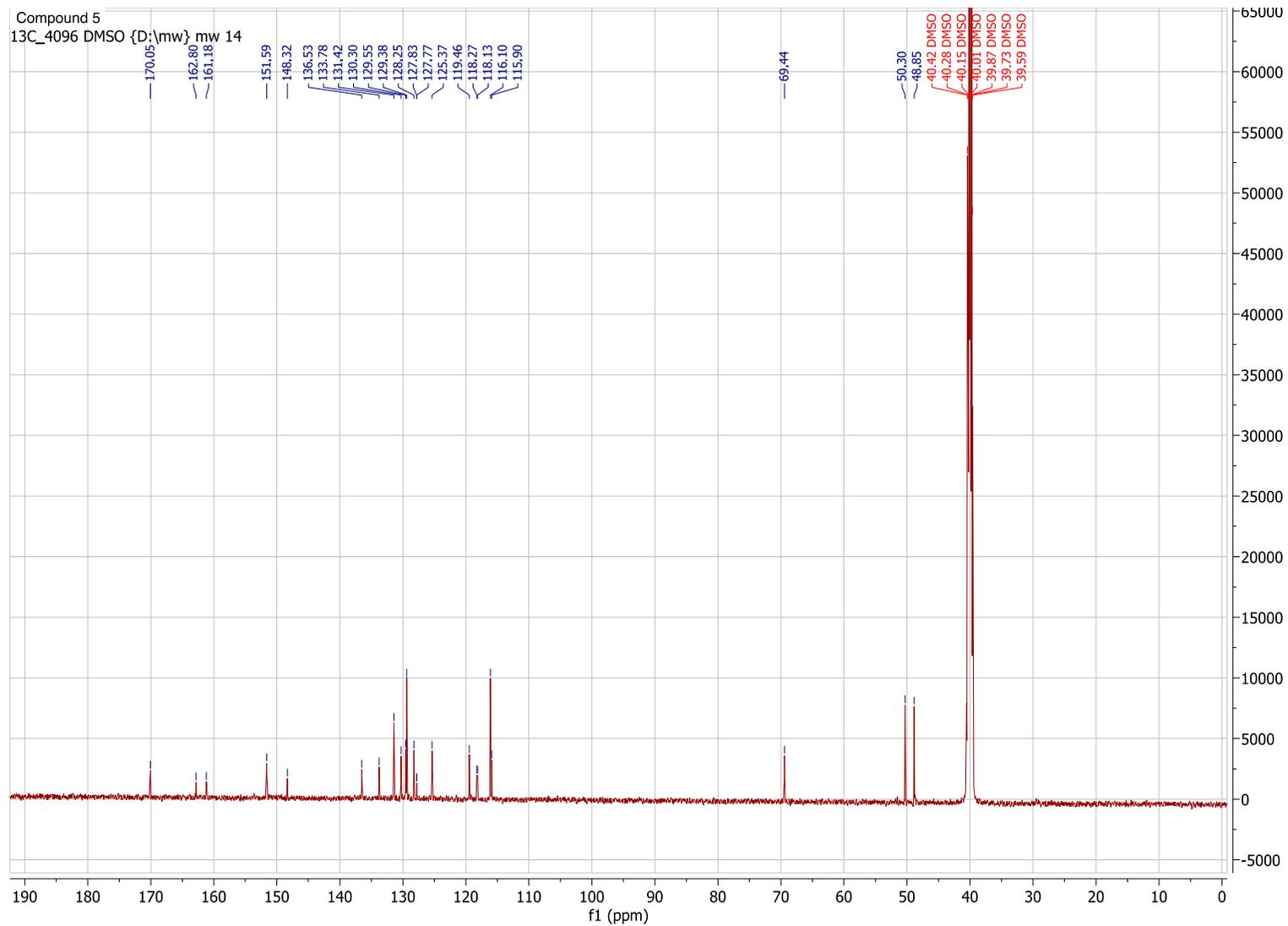


Figure S6. The ^{13}C NMR of compound 5.

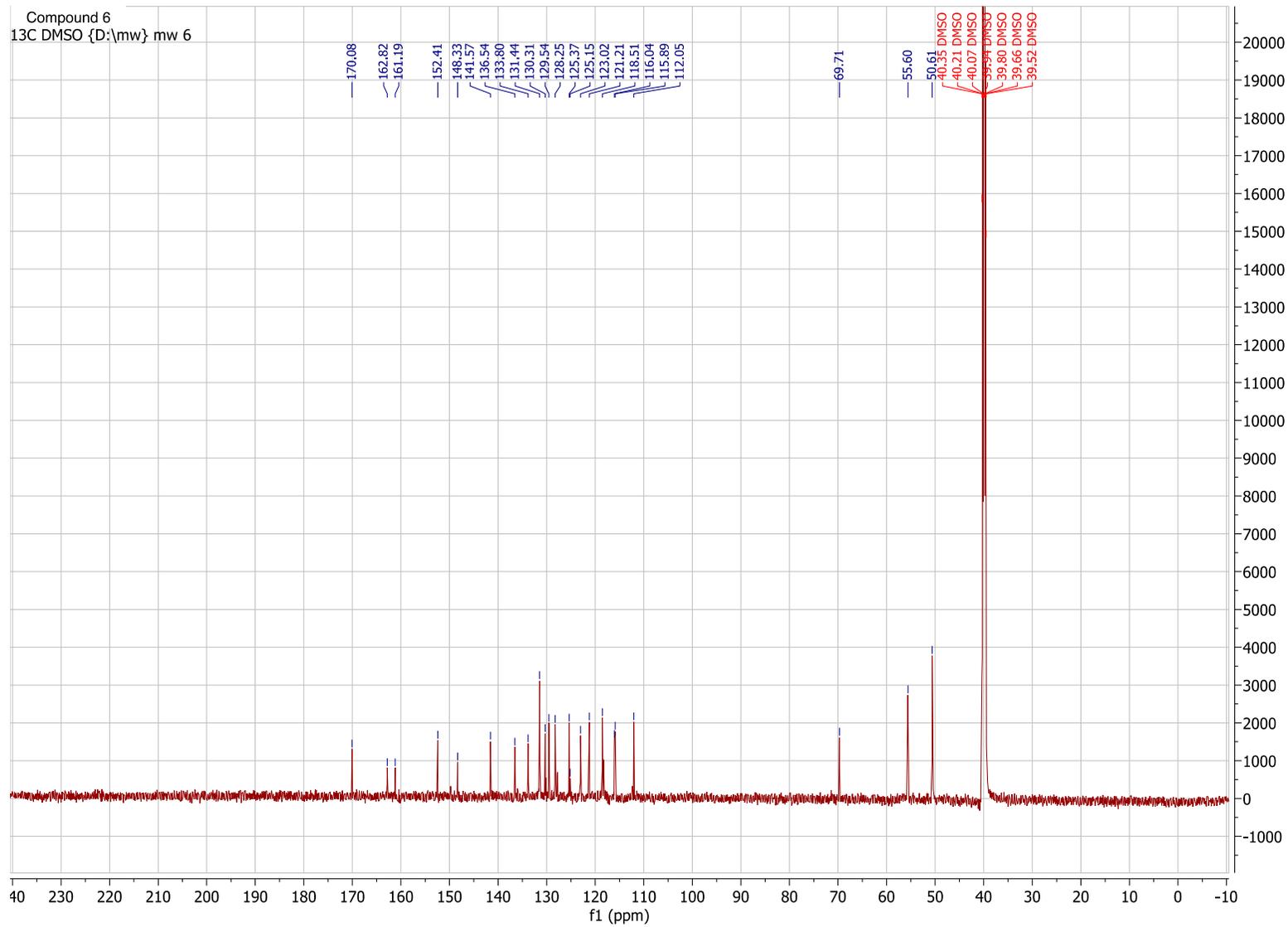


Figure S7. The ^{13}C NMR of compound 6.

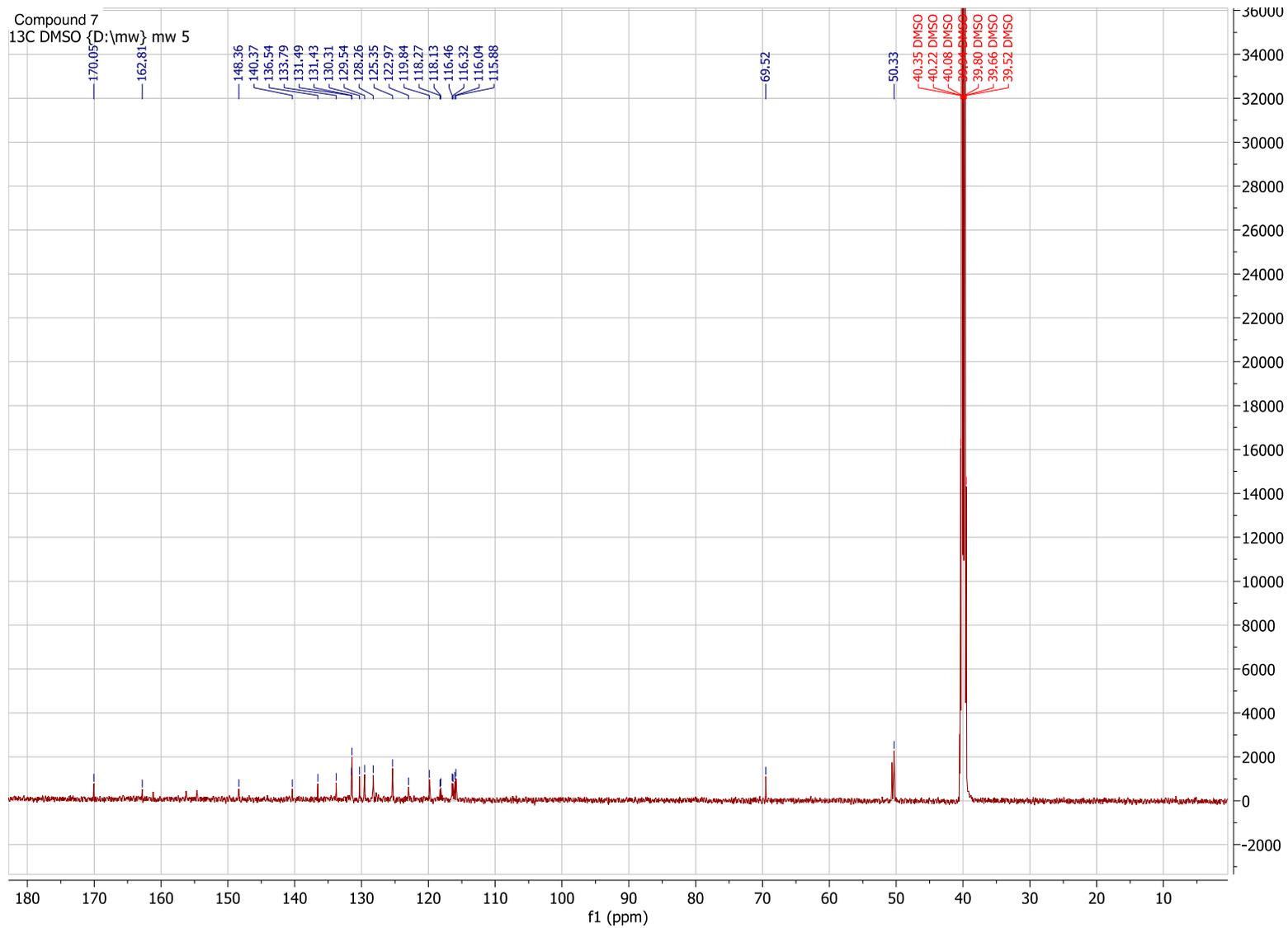


Figure S8. The ^{13}C NMR of compound 7.

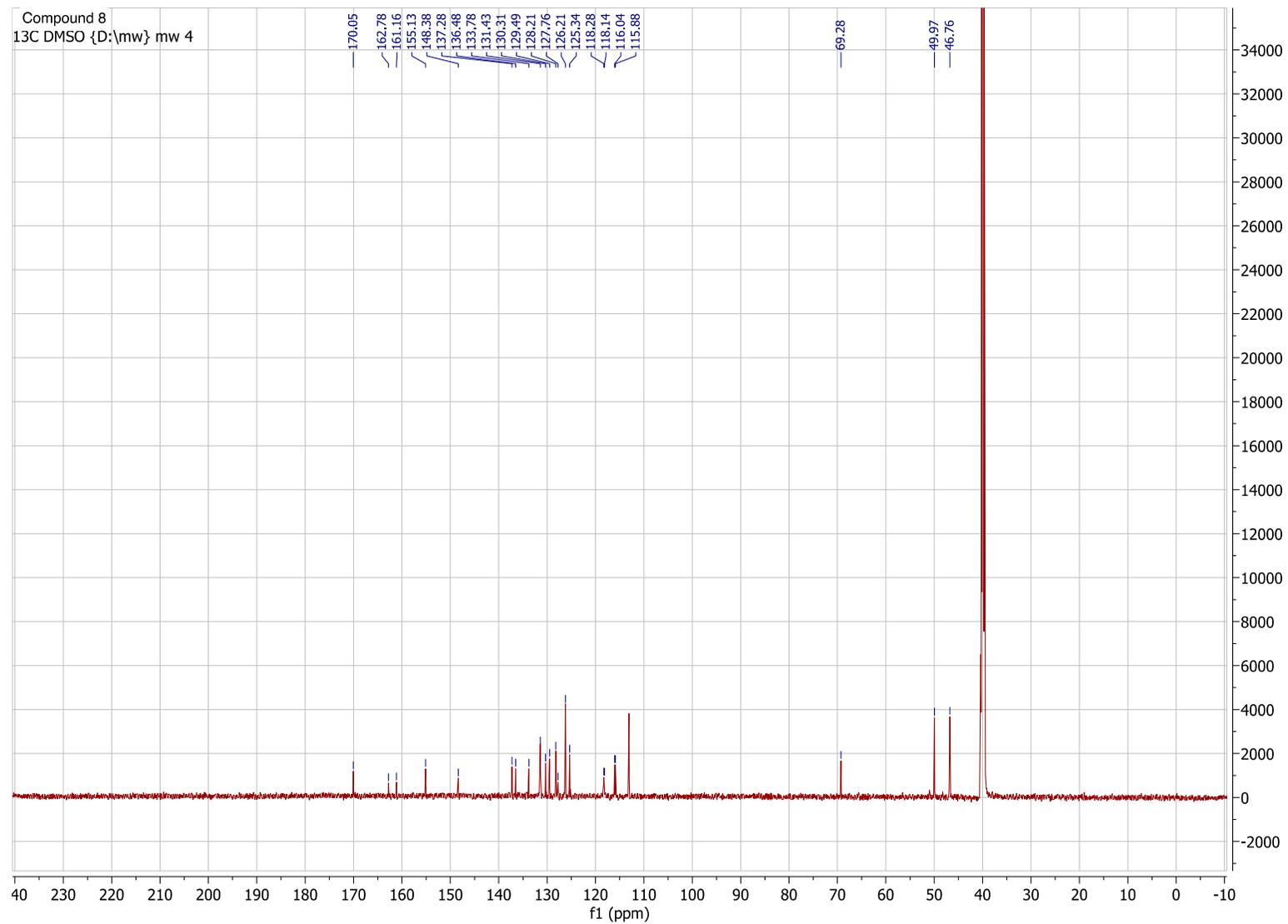


Figure S9. The ¹³C NMR of compound 8.

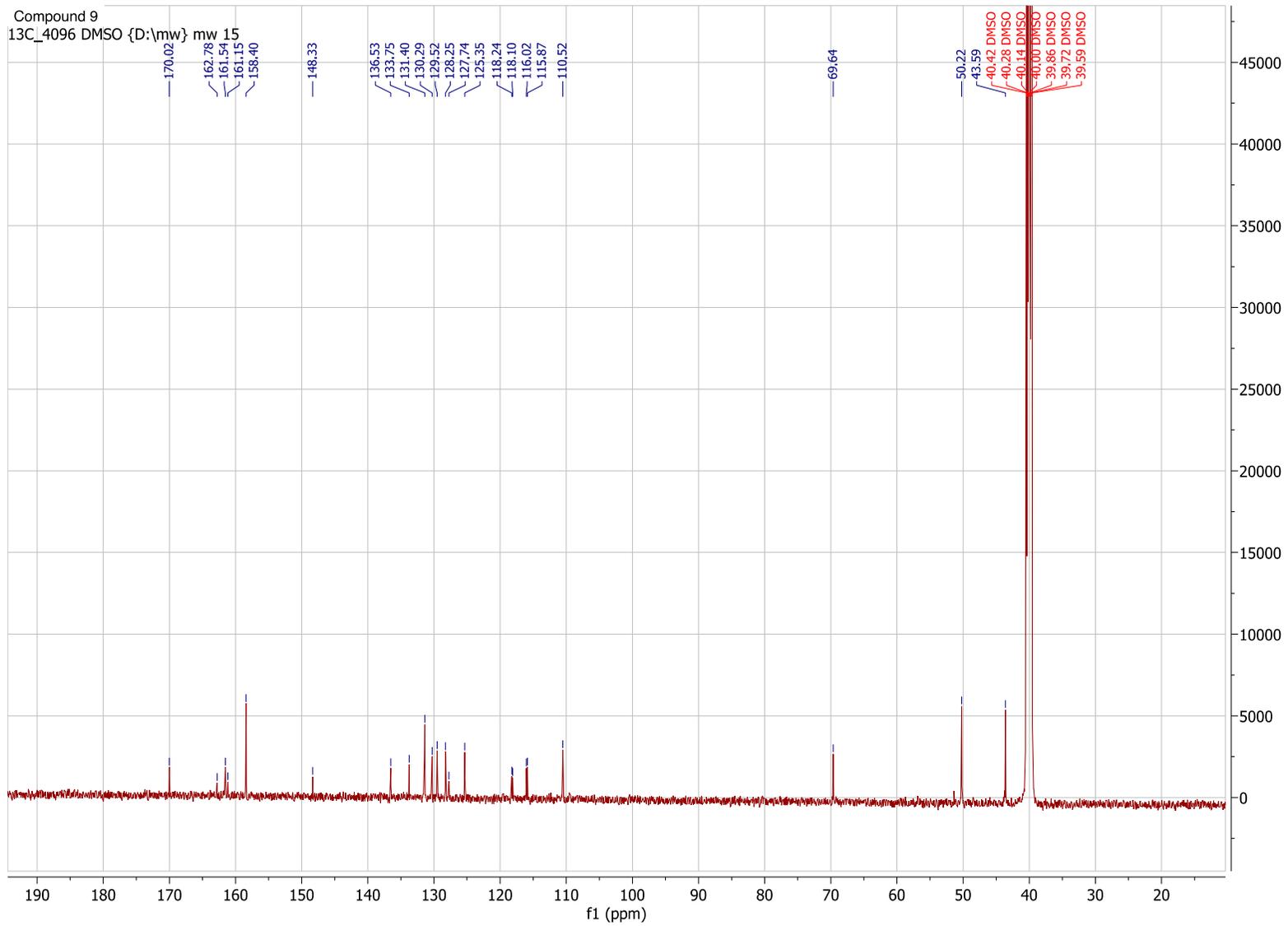


Figure S10. The ^{13}C NMR of compound 9.