

Supplementary Information

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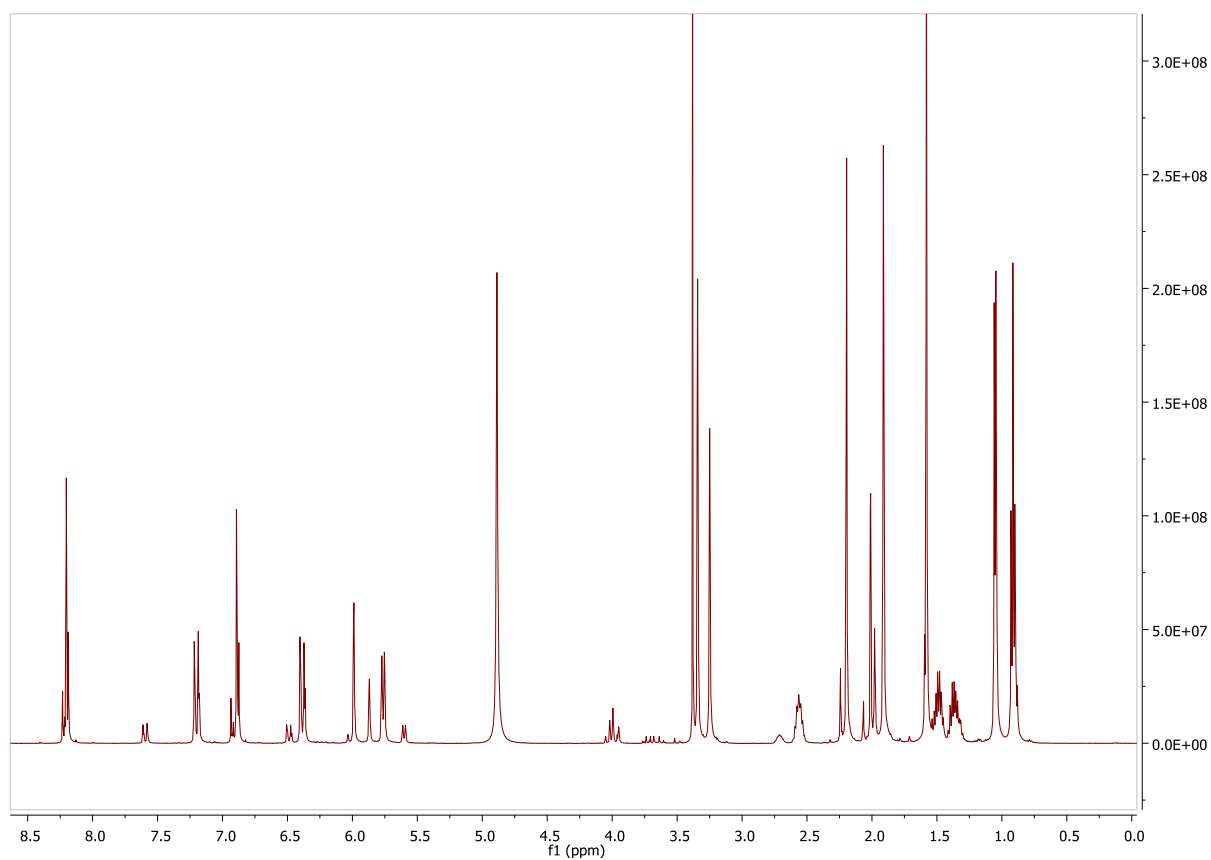
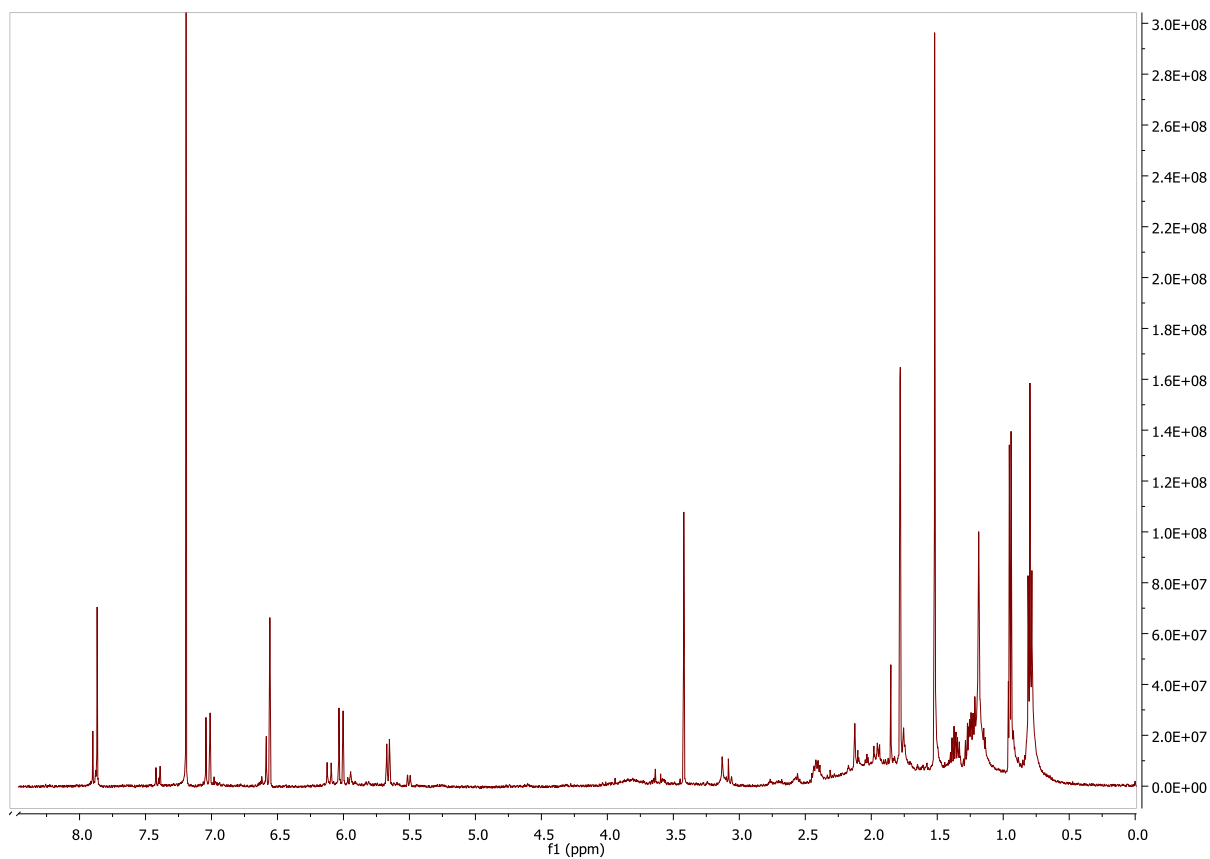
Figure S1. $^1\text{H-NMR}$ of compound helicisin A (**1**) in $\text{MeOD-}d_4$.**Figure S2.** $^1\text{H-NMR}$ of compound deacetylsclerotiorin (**2**) in CDCl_3 .

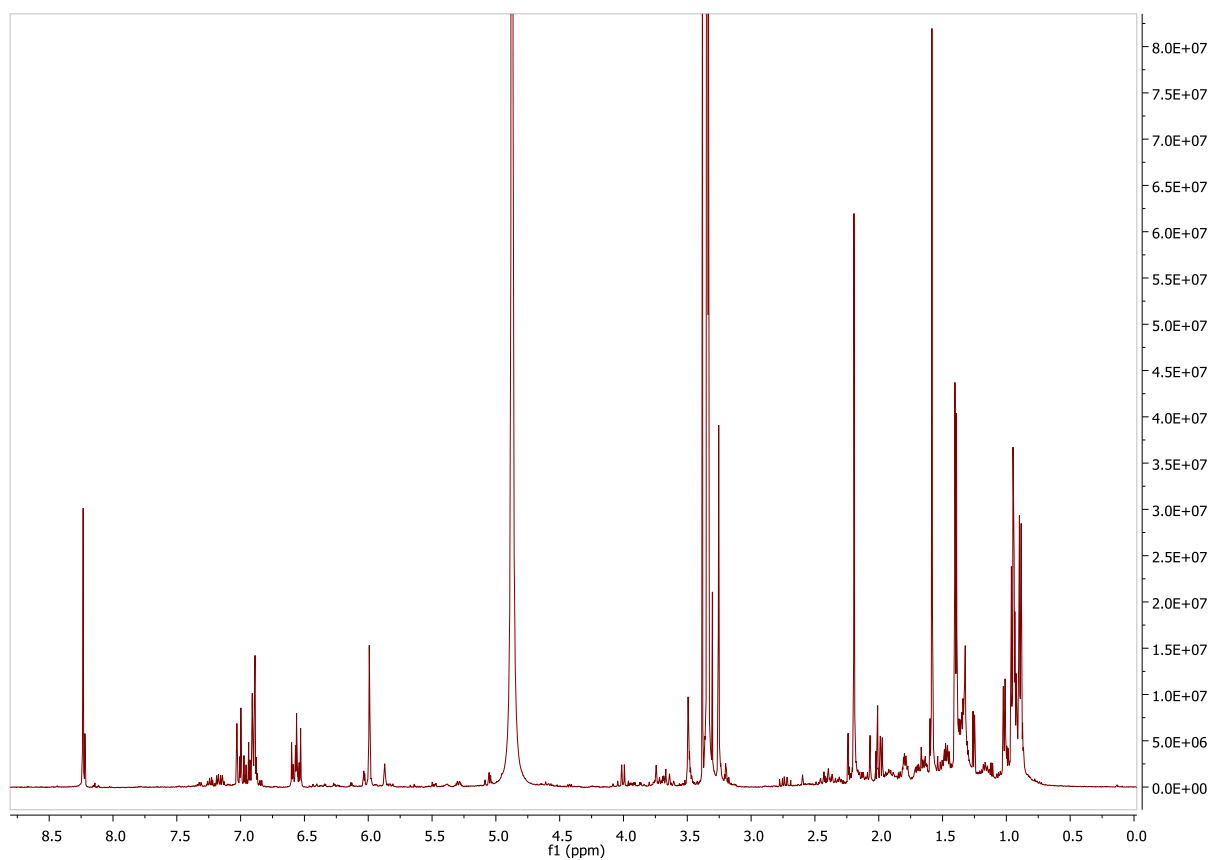
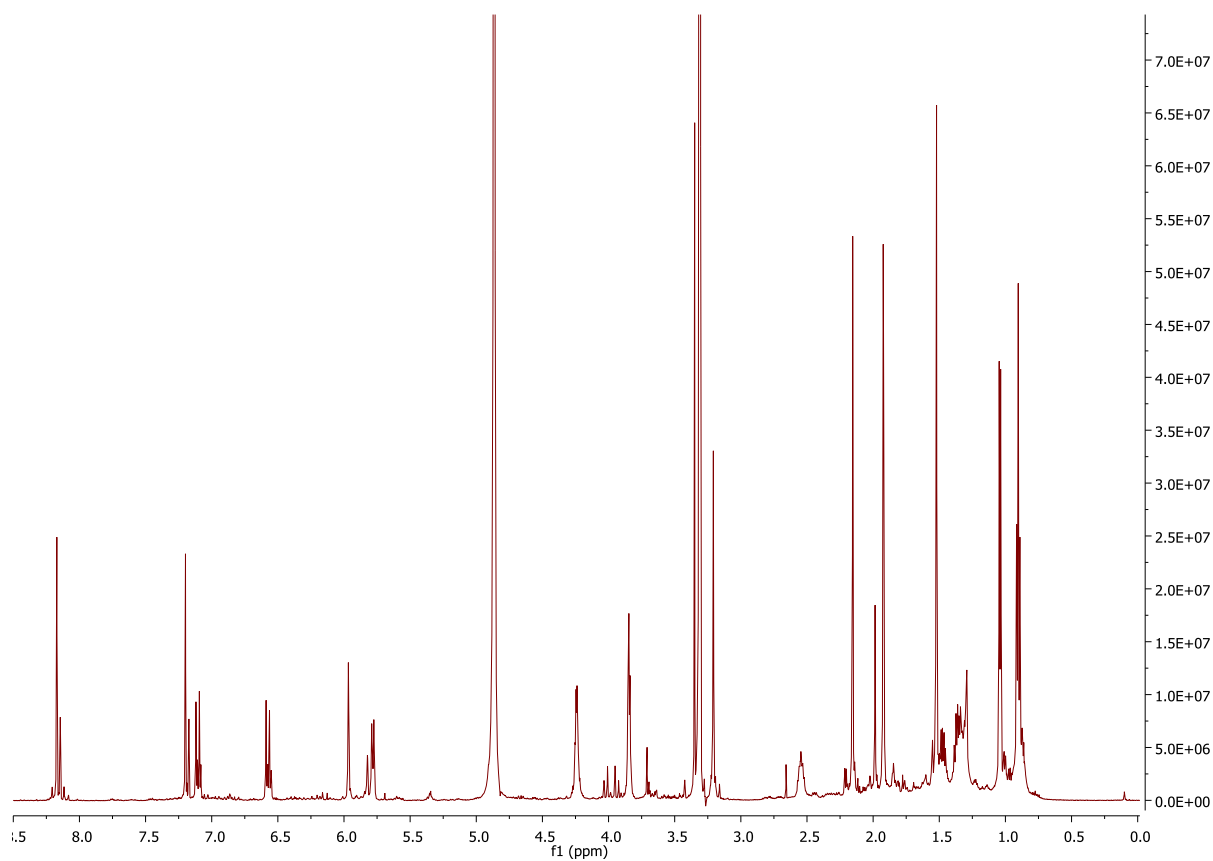
Figure S5. $^1\text{H-NMR}$ of compound helicusin E (**3**) in $\text{MeOD-}d_4$.**Figure S6.** $^1\text{H-NMR}$ of compound isochromophilone X (**4**) in $\text{MeOD-}d_4$.

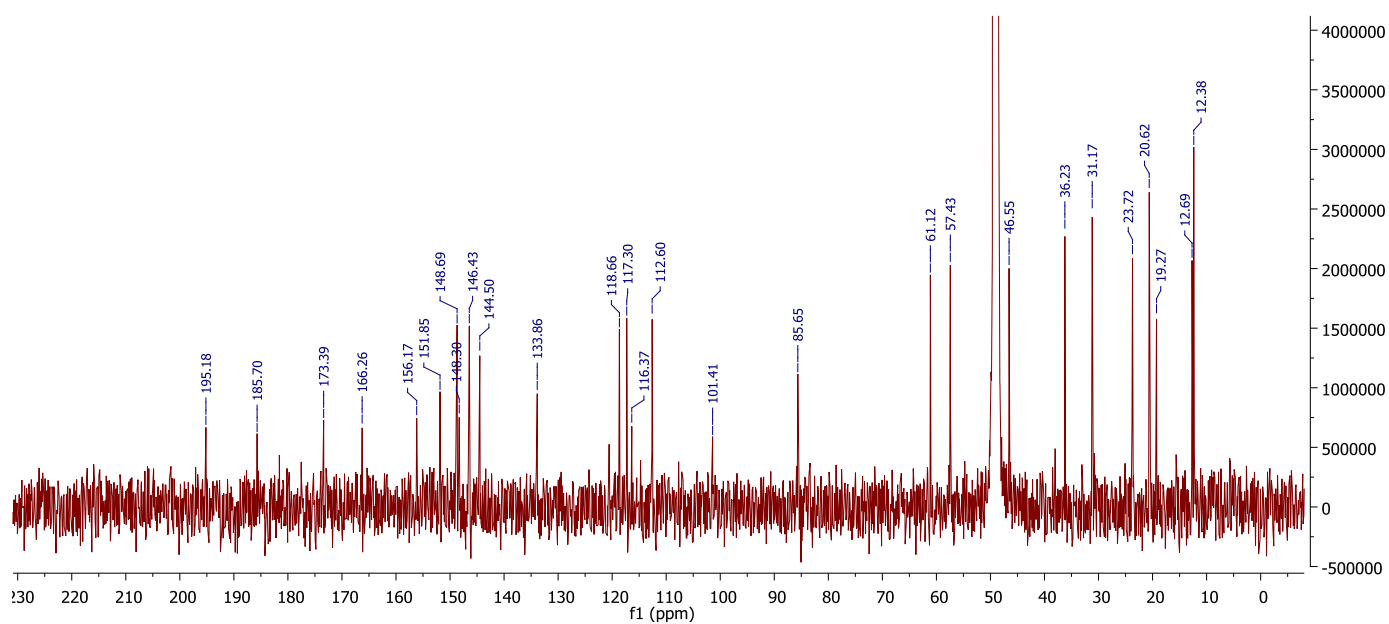
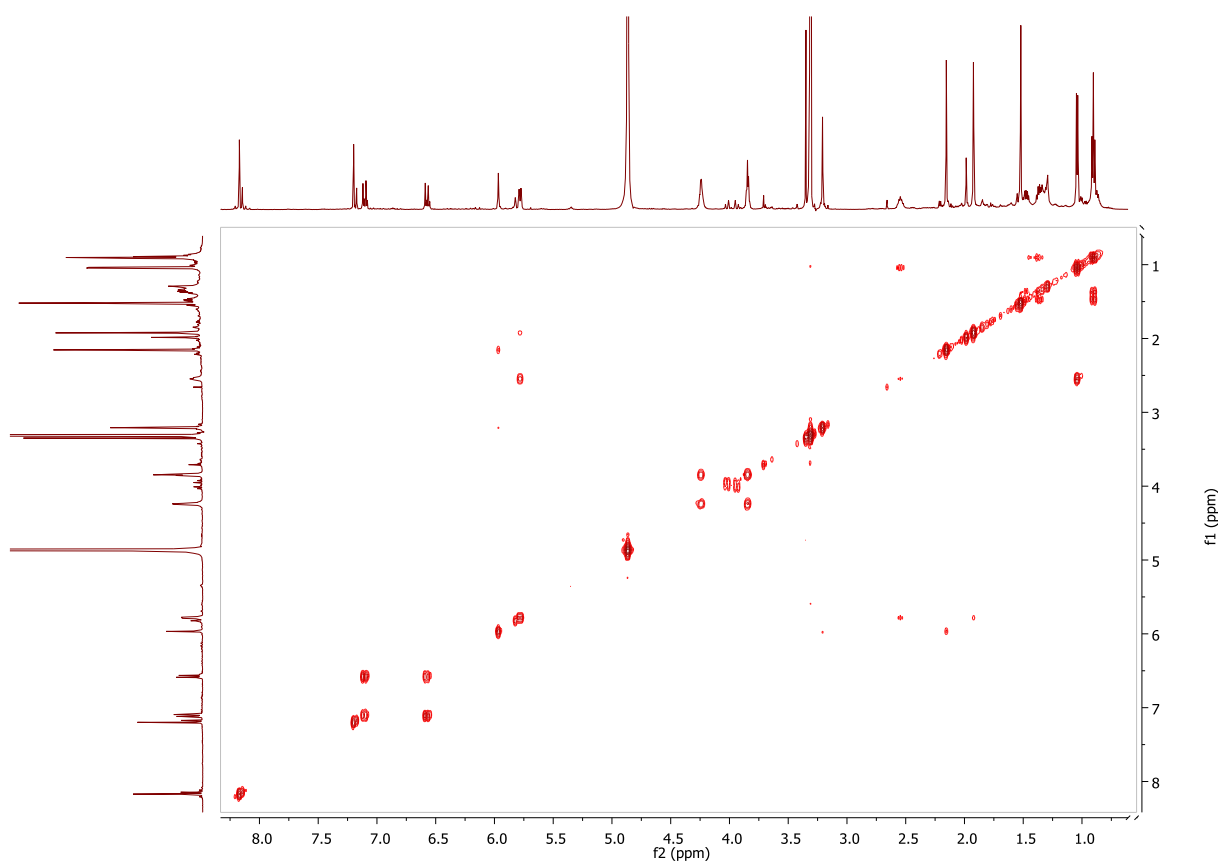
Figure S7. ^{13}C -NMR of compound isochromophilone X (**4**) in $\text{MeOD-}d_4$.**Figure S8.** COSY of compound isochromophilone X (**4**) in $\text{MeOD-}d_4$.

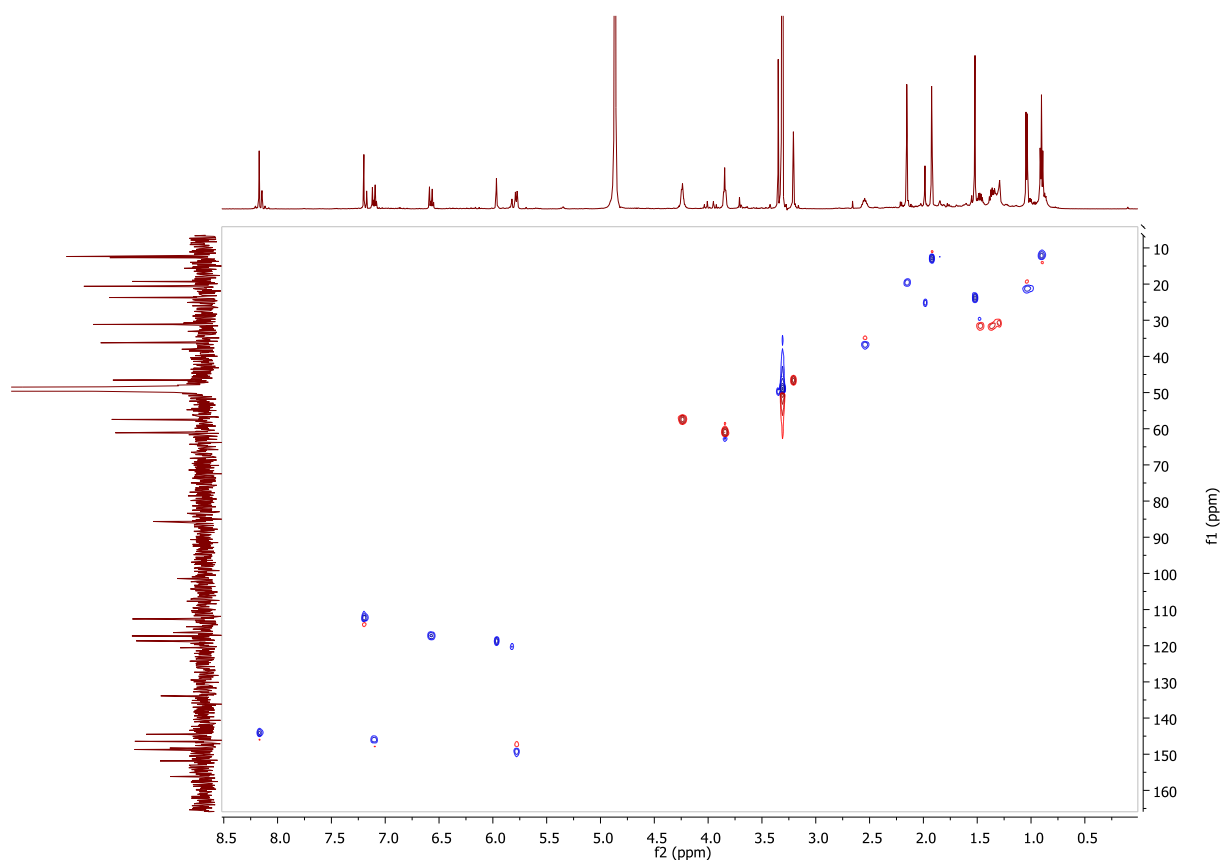
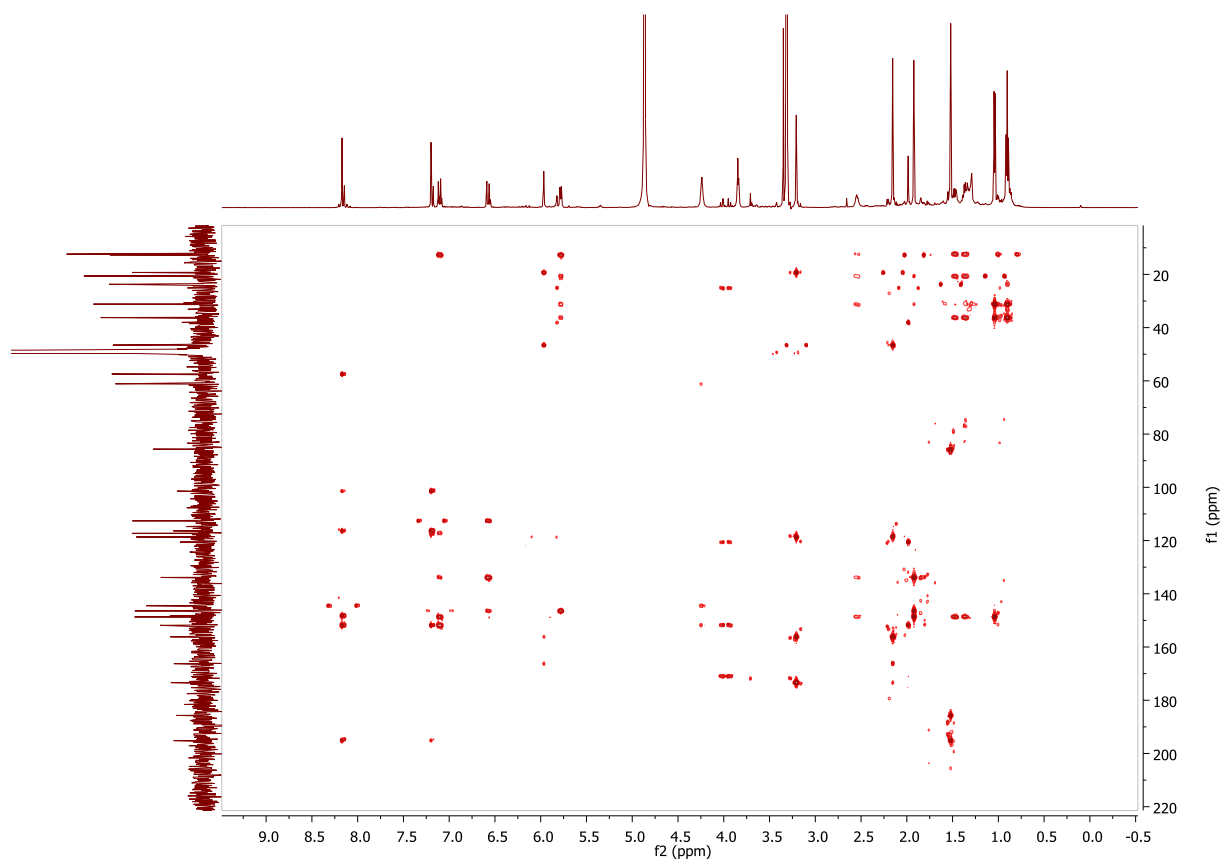
Figure S9. HSQC of compound isochromophilone X (4) in MeOD- d_4 .**Figure S10.** HMBC of compound isochromophilone X (4) in MeOD- d_4 .

Figure S11. NOESY of compound isochromphilone X (4) in MeOD-*d*₄.

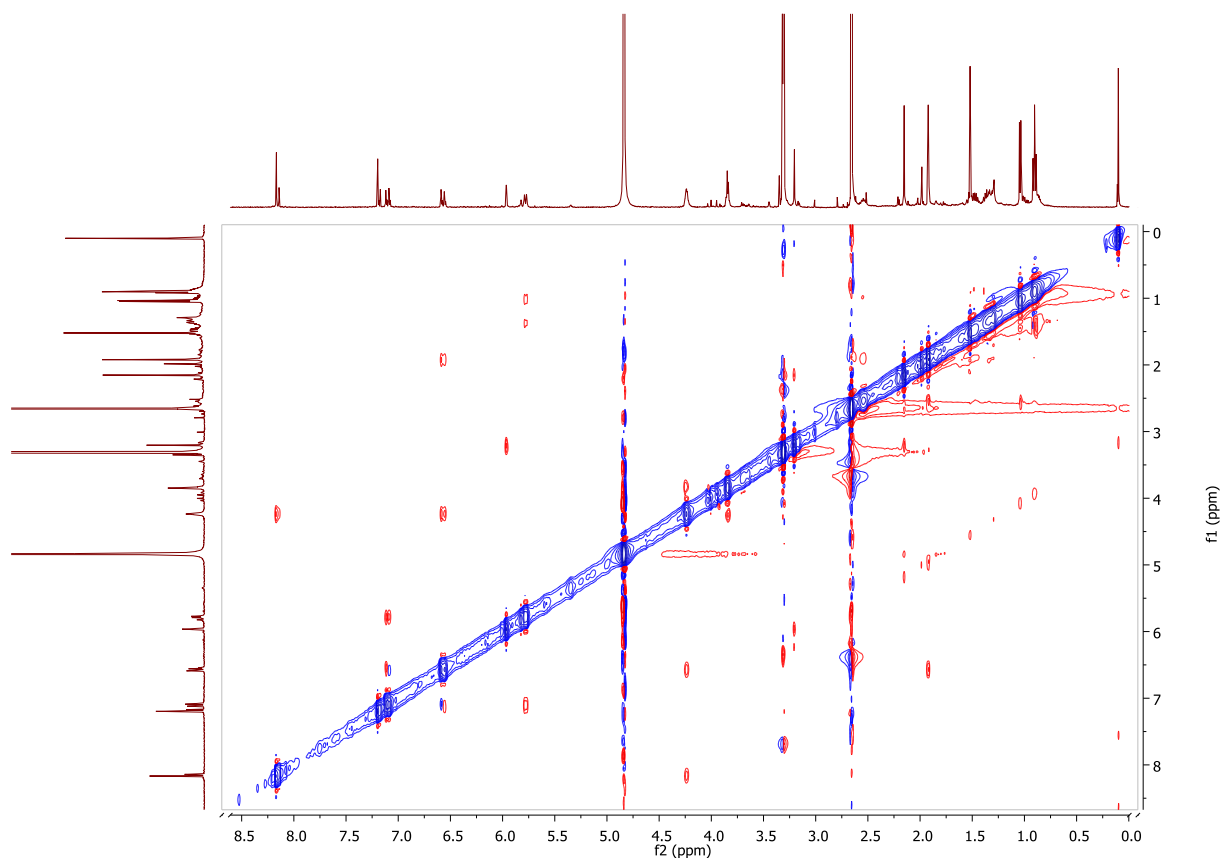


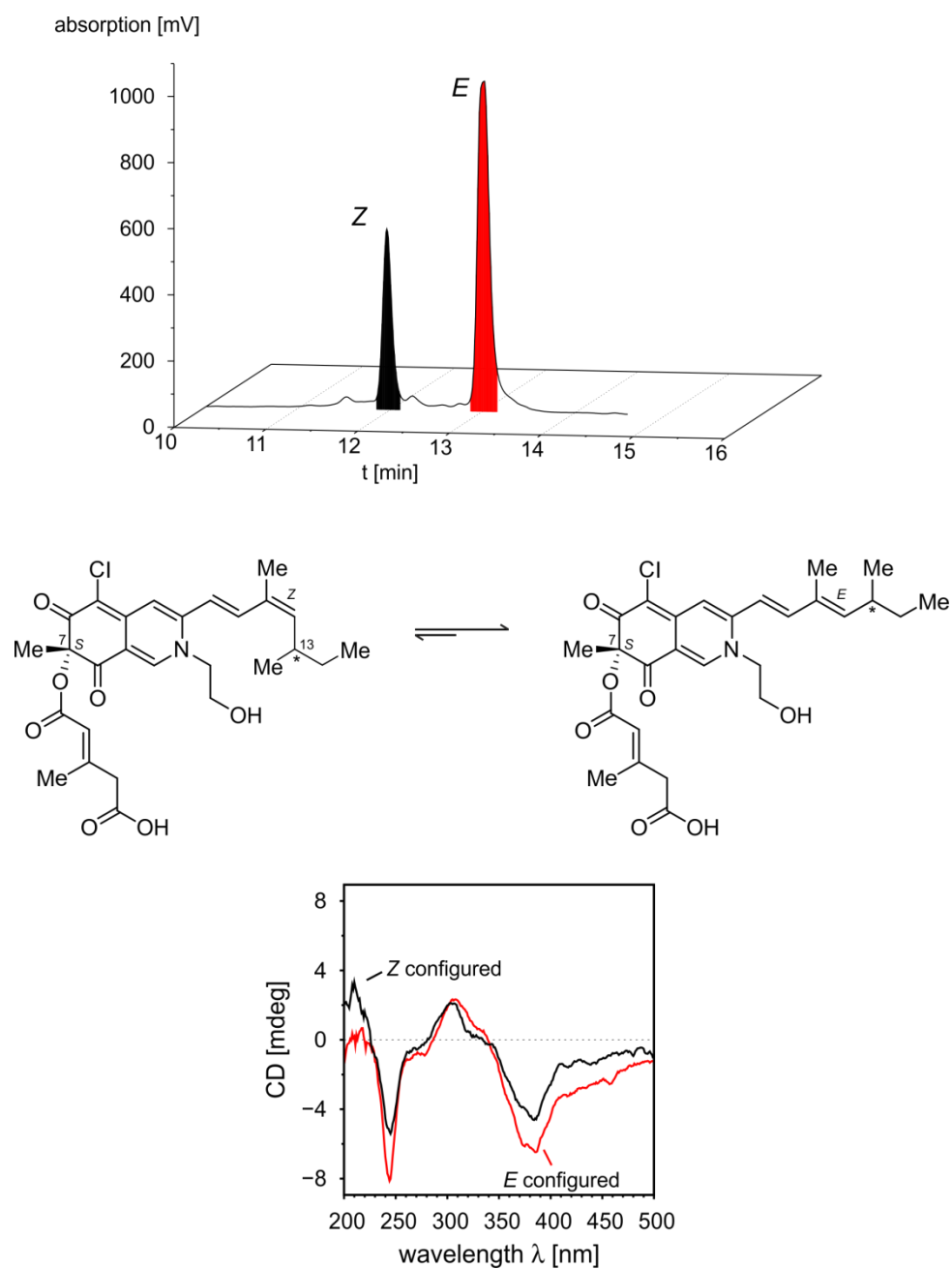
Figure S12. HPLC-CD of compound isochromophilone X (4).

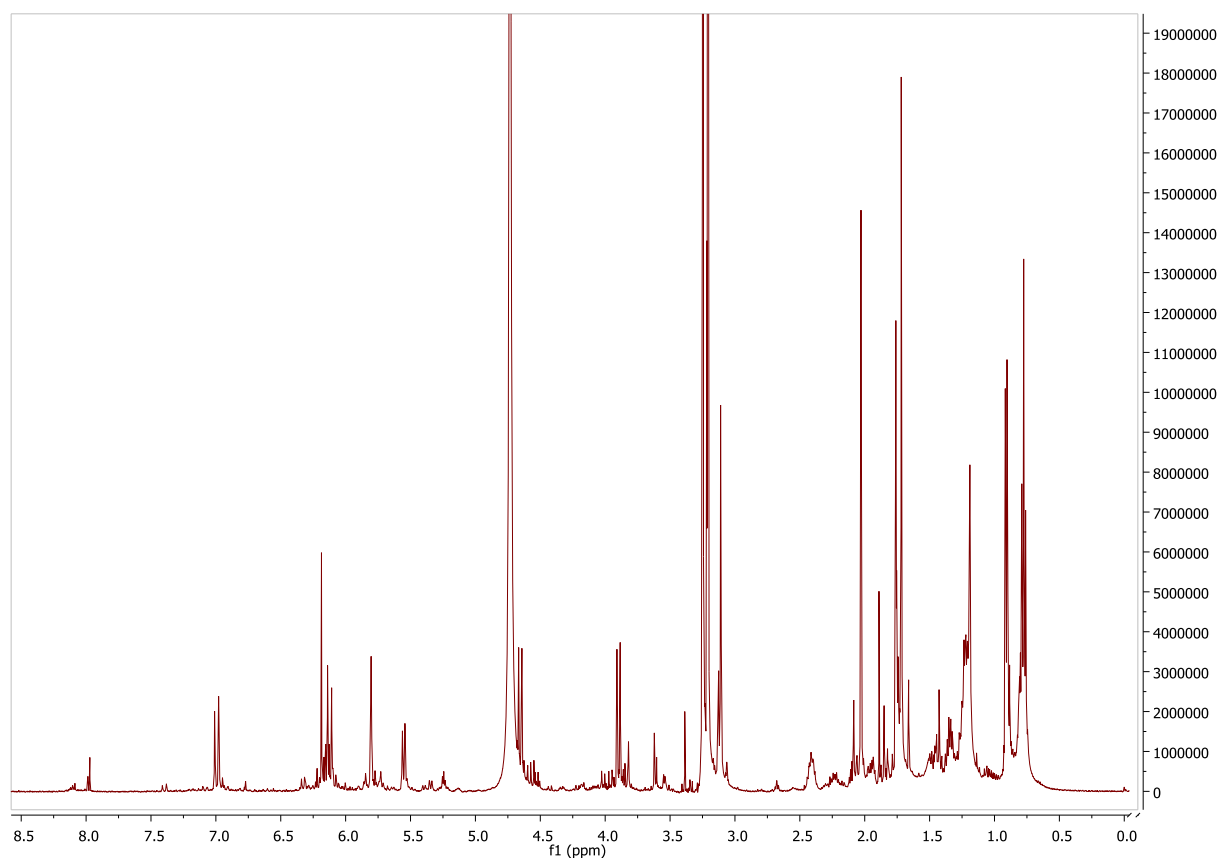
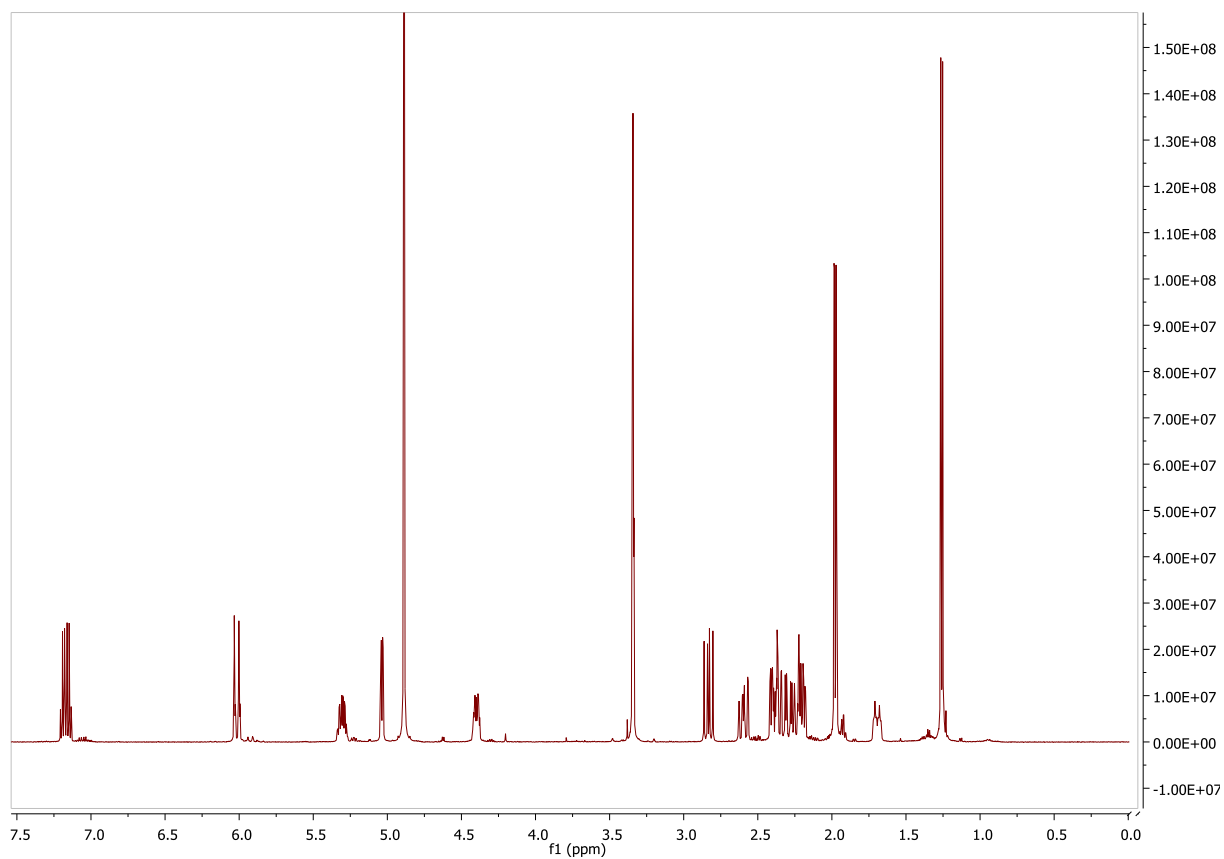
Figure S13. $^1\text{H-NMR}$ of compound isochromophilone XI (**5**) in $\text{MeOD-}d_4$.**Figure S14.** $^1\text{H-NMR}$ of compound bartanolide (**6**) in $\text{MeOD-}d_4$.

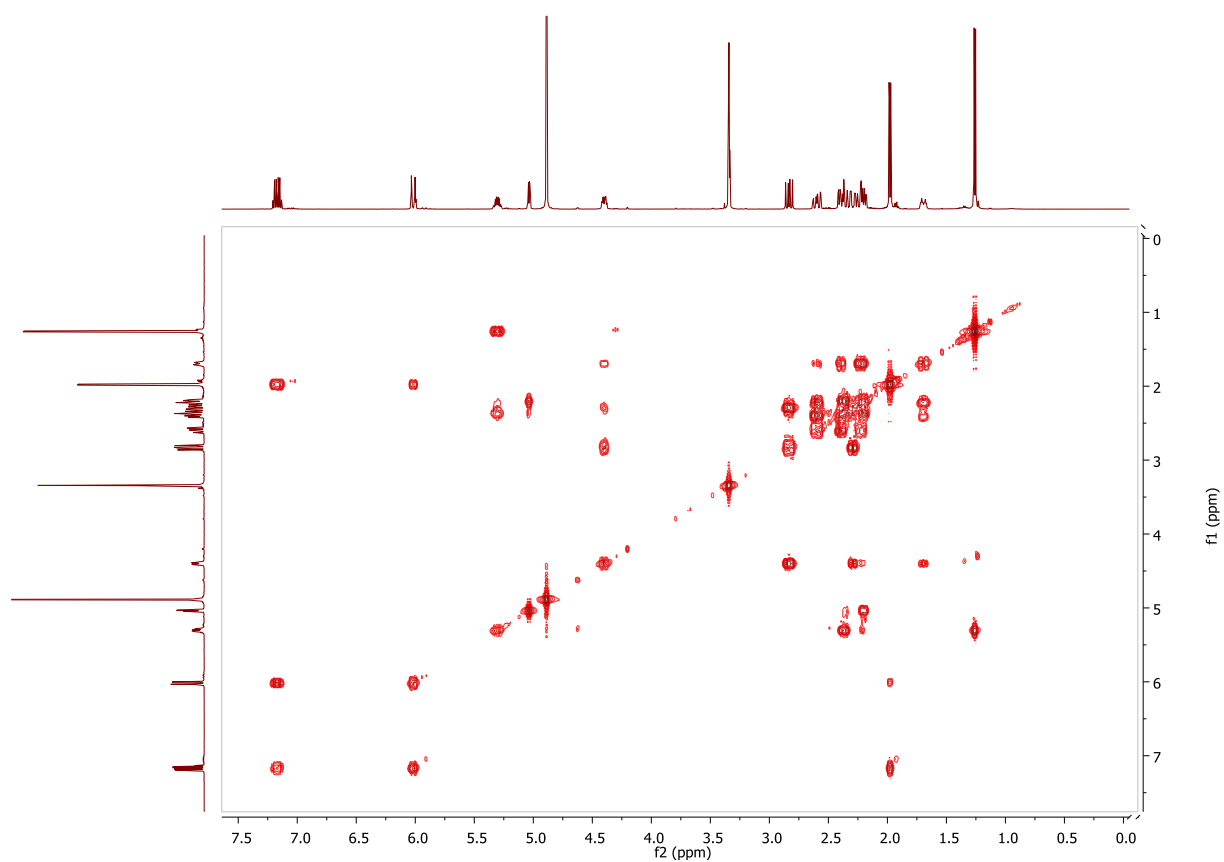
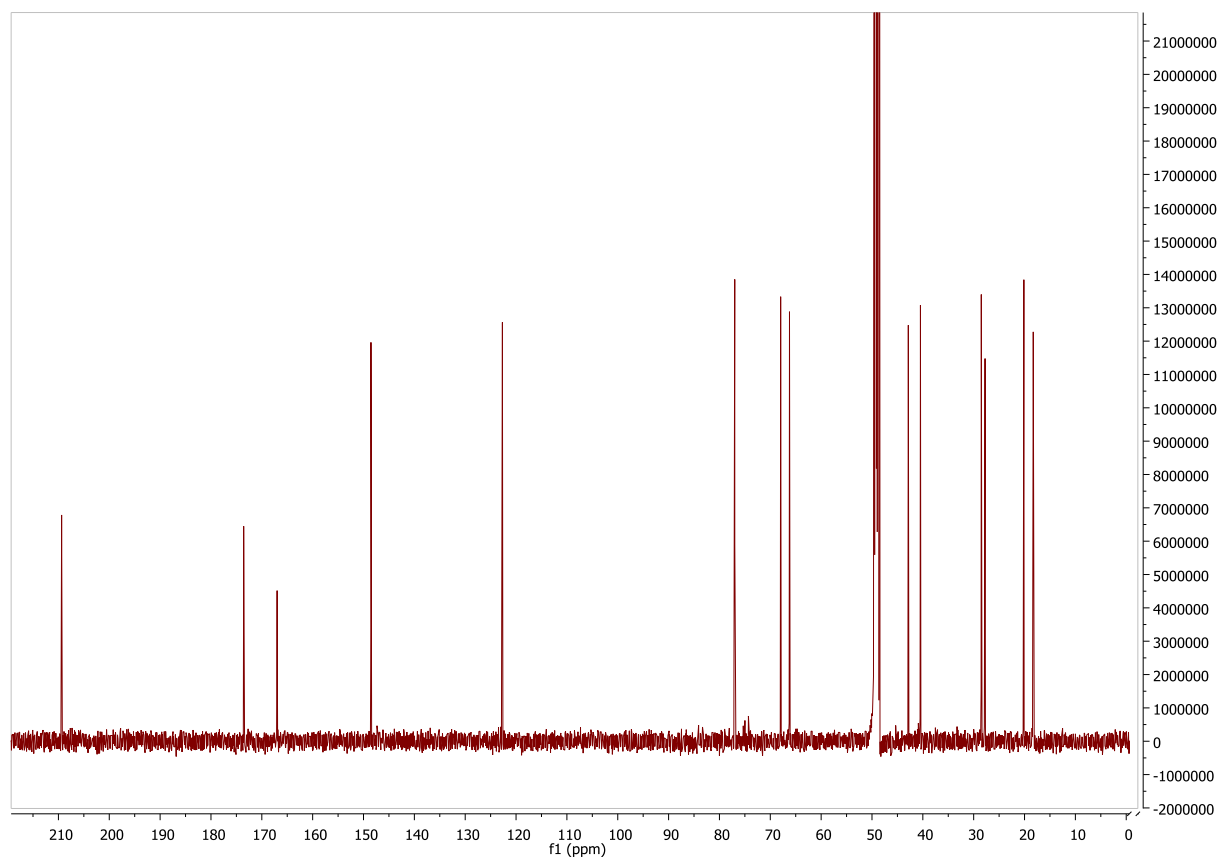
Figure S15. COSY of compound bartanolide (6) in MeOD- d_4 .**Figure S16.** ¹³C-NMR of compound bartanolide (6) in MeOD- d_4 .

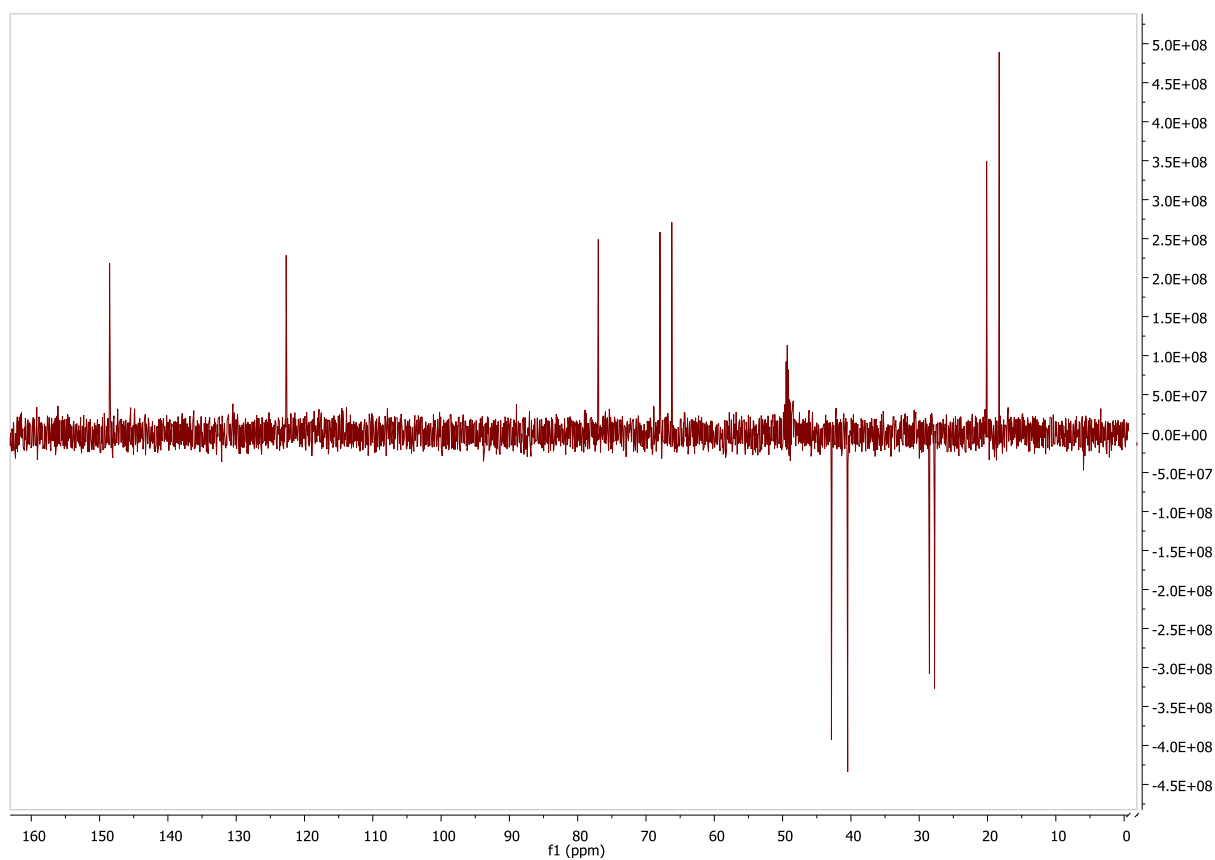
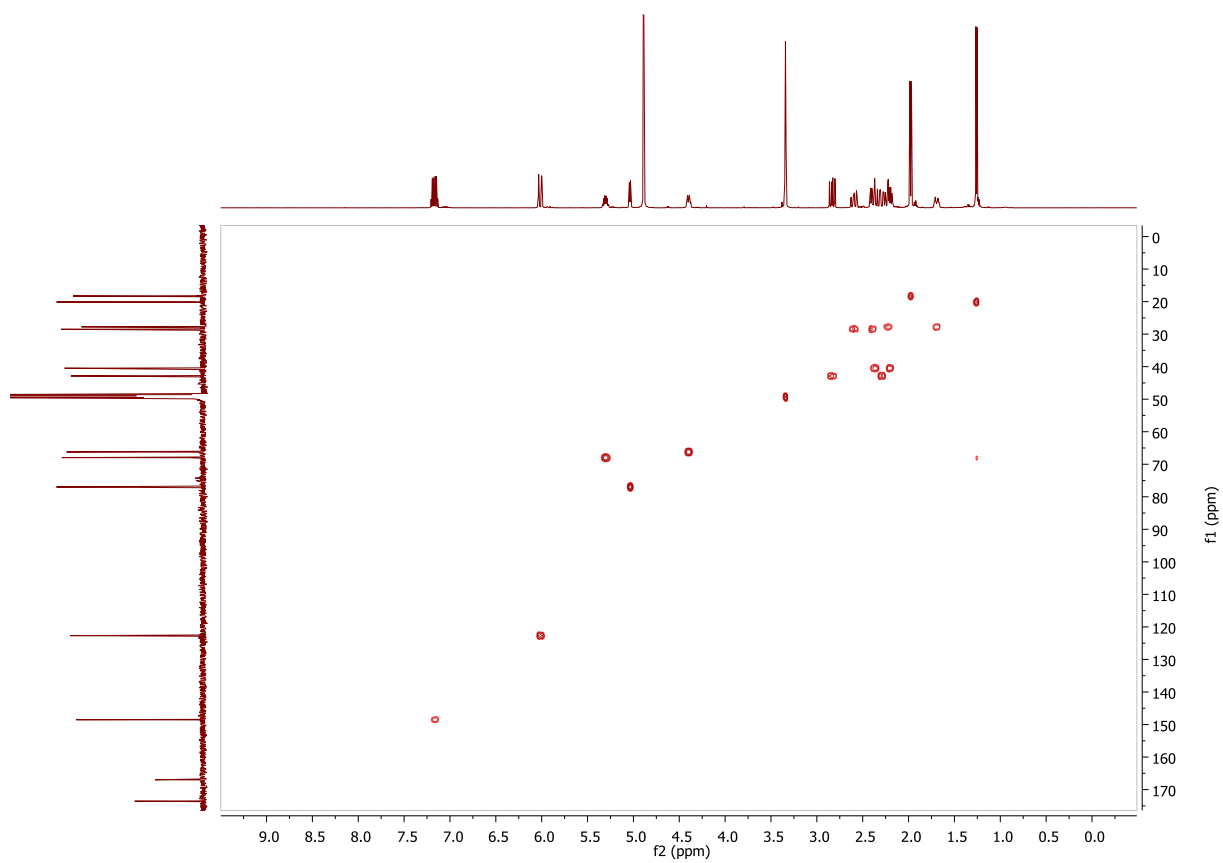
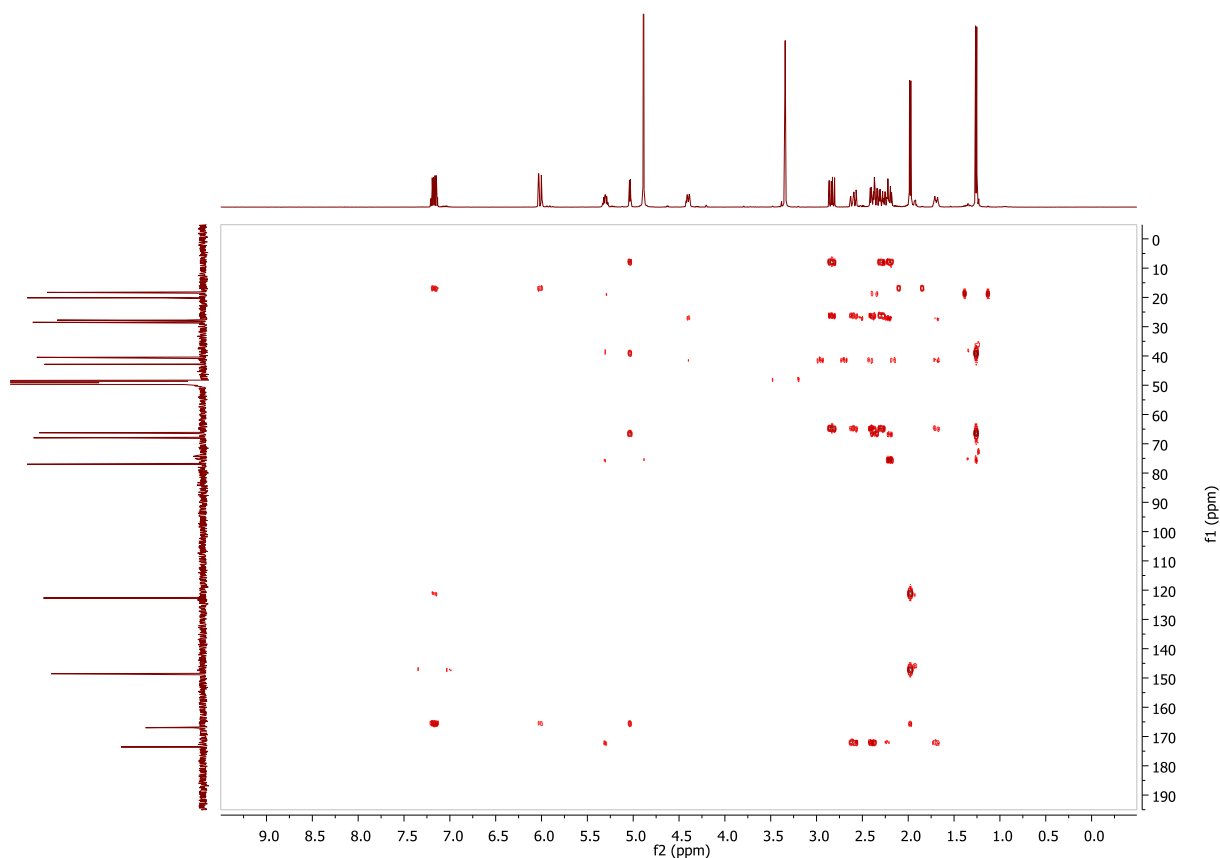
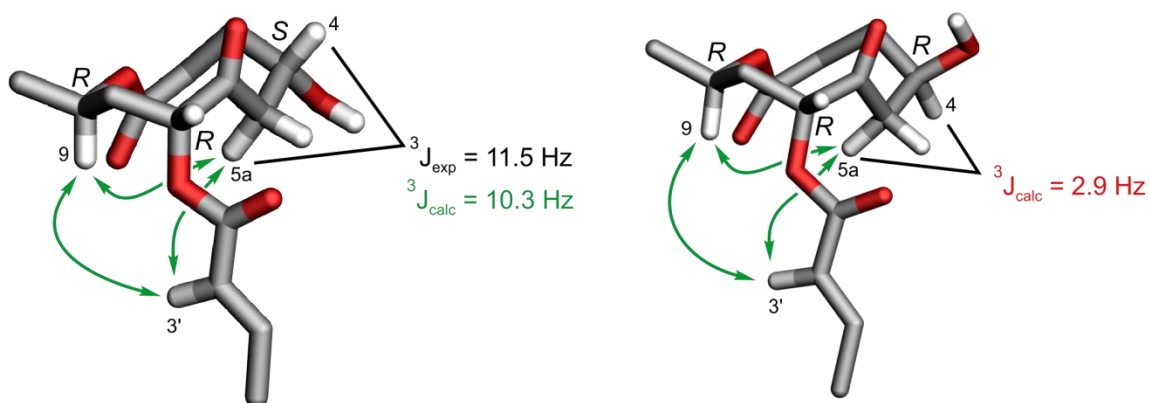
Figure S17. 135-DEPT of compound bartanolide (6) in MeOD-*d*₄.Figure S18. HSQC of compound bartanolide (6) in MeOD-*d*₄.

Figure S19. HMBC of compound bartanolide (6) in MeOD- d_4 .Figure S20. Minimum Conformers of S,R,R -6 and R,R,R -6.

The found weak NOE between H-9 and H-5a and between H-9 and H-3' as well as the NOE between H-3' and H-5a were possible in the S,R,R - and the R,R,R -configurations (and in their enantiomers) of **6**. Conformational analyses with the B97D/TZVP method gave the minimum energy conformers shown above. Using the Karplus equation and NMR calculations (B3LYP/6-31G**/B97D/TZVP, CPCM, solvent = methanol) of the 3J coupling between H-5a and H-4 it became clear that only the S,R,R configuration and its enantiomer fit to the experimental results.

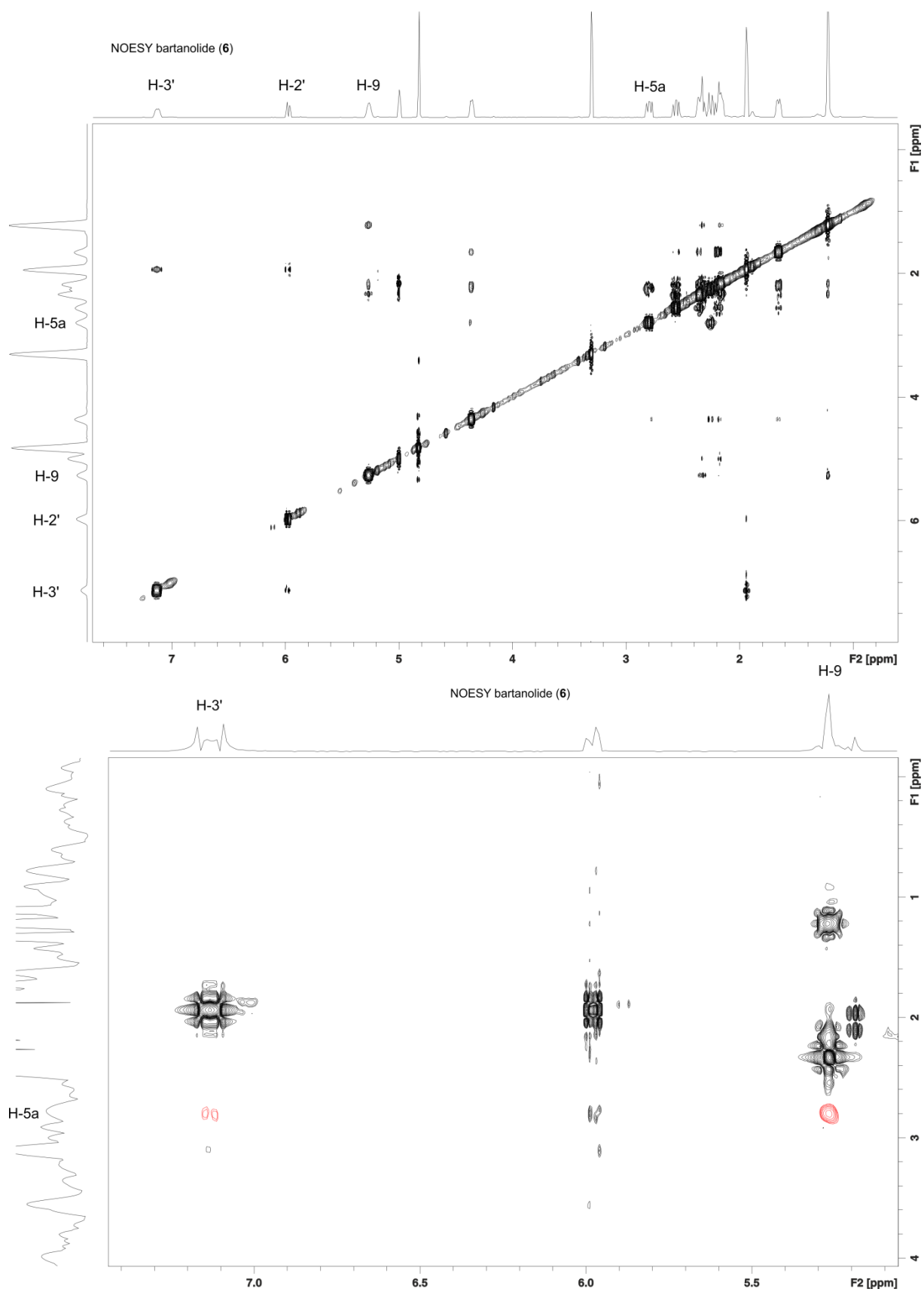
Figure S21. NOESY of compound bartanolide (6) in MeOD-*d*₄.

Figure S21. Cont.

