

Supplementary Material

Chermabilaenes A and B, New Bioactive Meroterpenoids from Co-cultures of Marine-derived Isolates of *Penicillium bilaiae* MA-267 and *Penicillium chermesinum* EN-480

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Figure S1. HRESI mass spectrum of compound **1**.

20190417-CO267-49_190404155858 #50-52 RT: 0.41-0.43 AV: 3 NL: 5.12E6
T: FTMS + p ESI Full ms [100.00-1000.00]

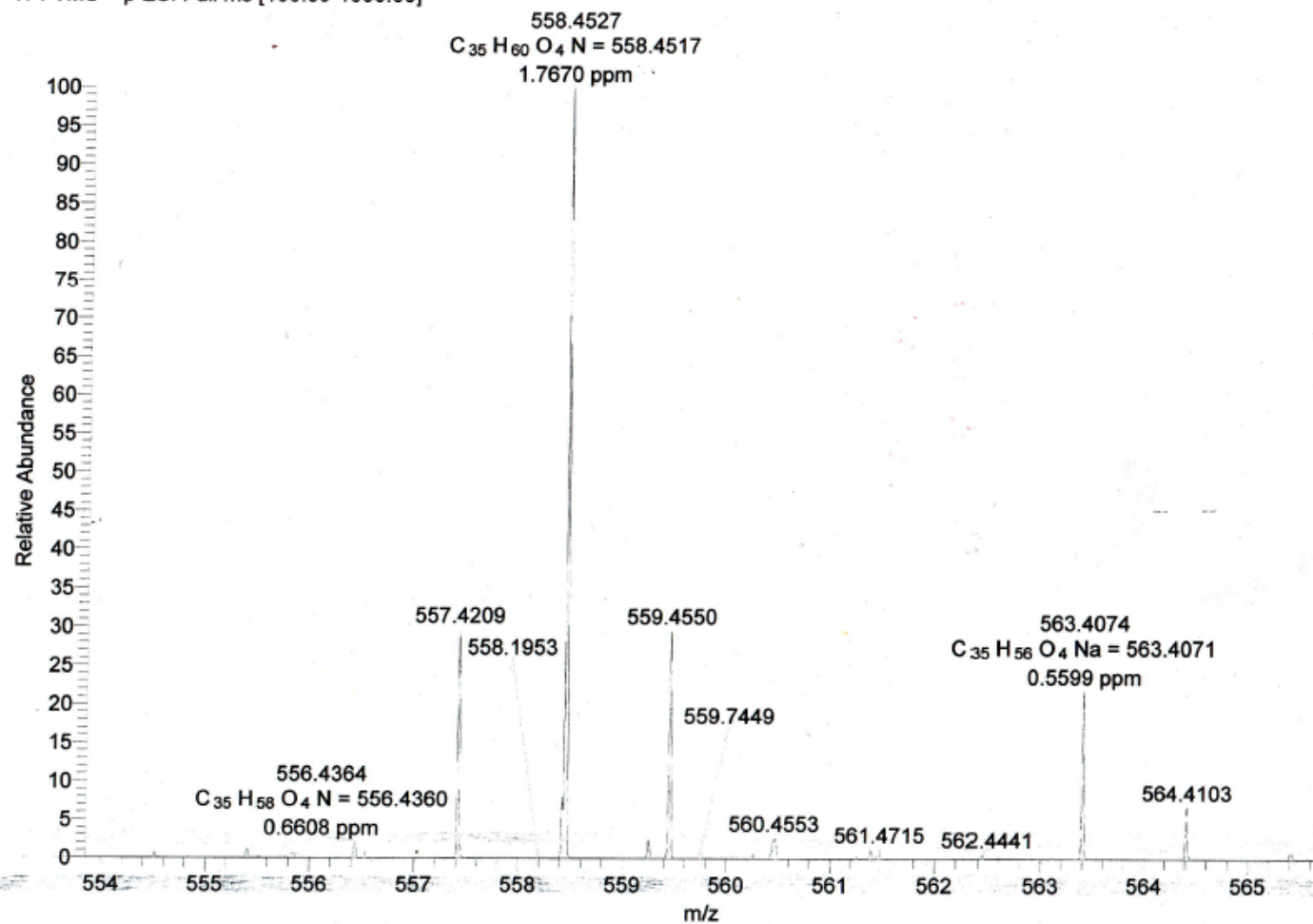


Figure S2. ^1H NMR (500 MHz, CDCl_3) spectrum of compound **1**.

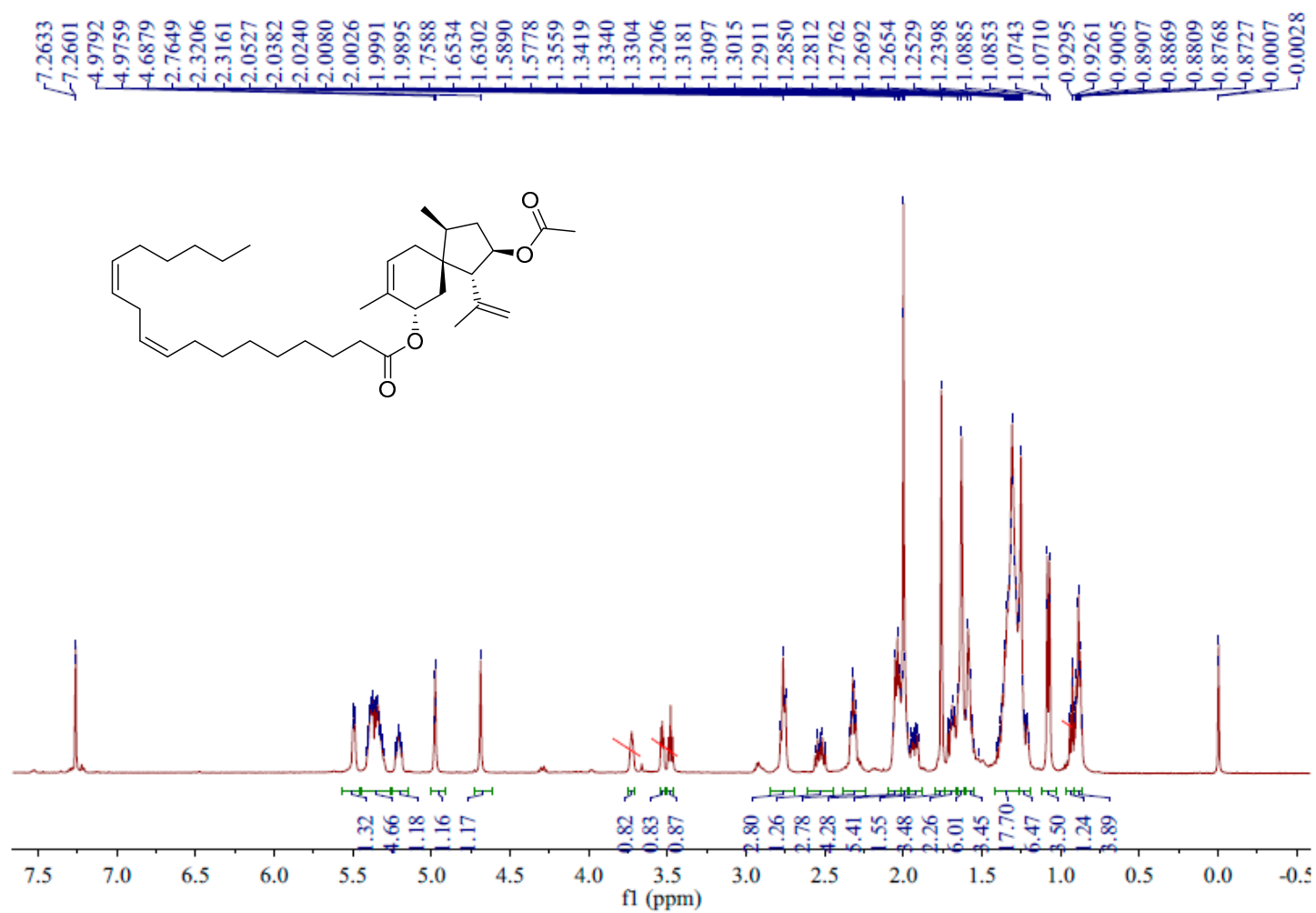


Figure S3. ^{13}C NMR (125 MHz, CDCl_3) and DEPT spectra of compound **1**.

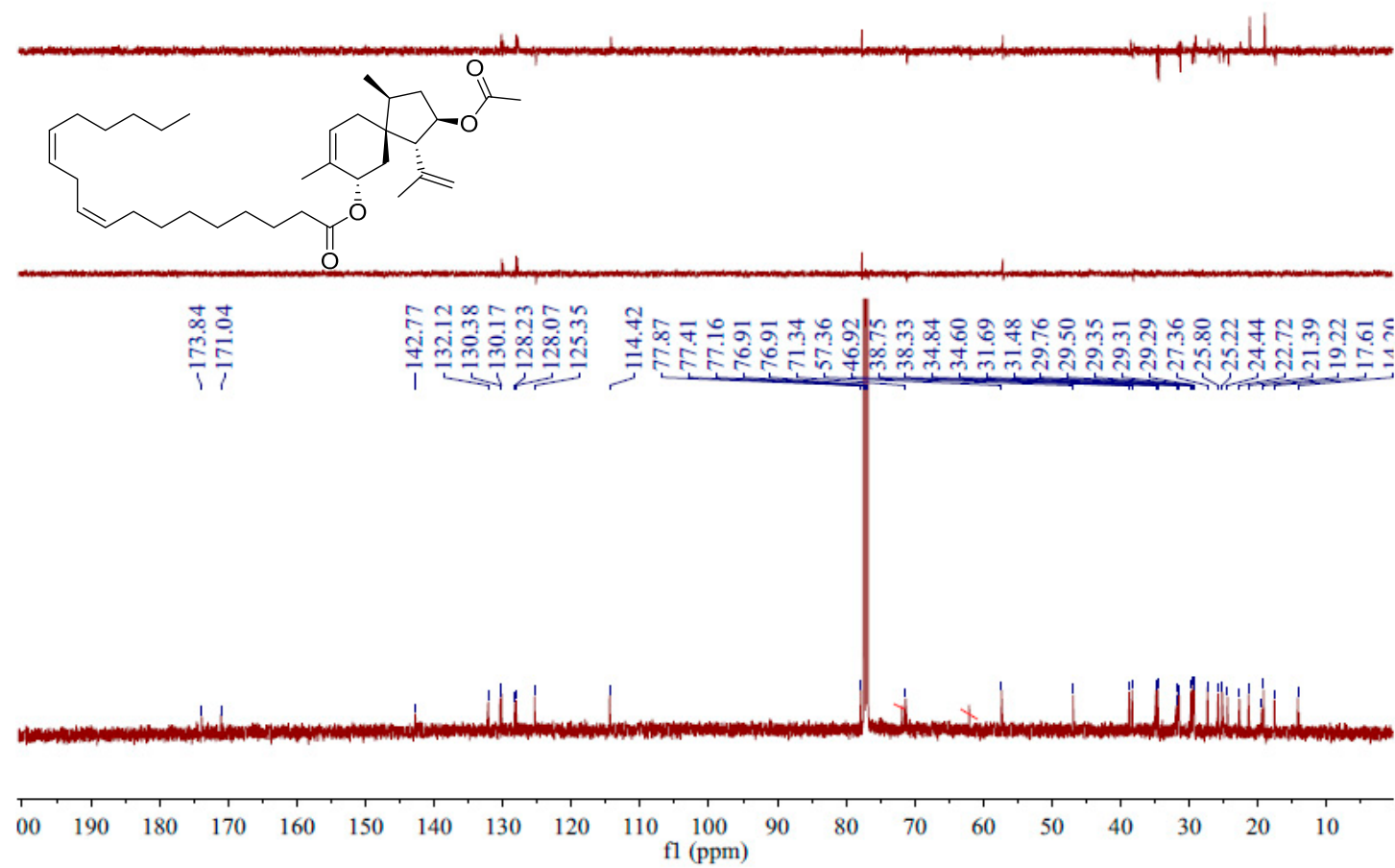


Figure S4. COSY spectrum of compound **1**.

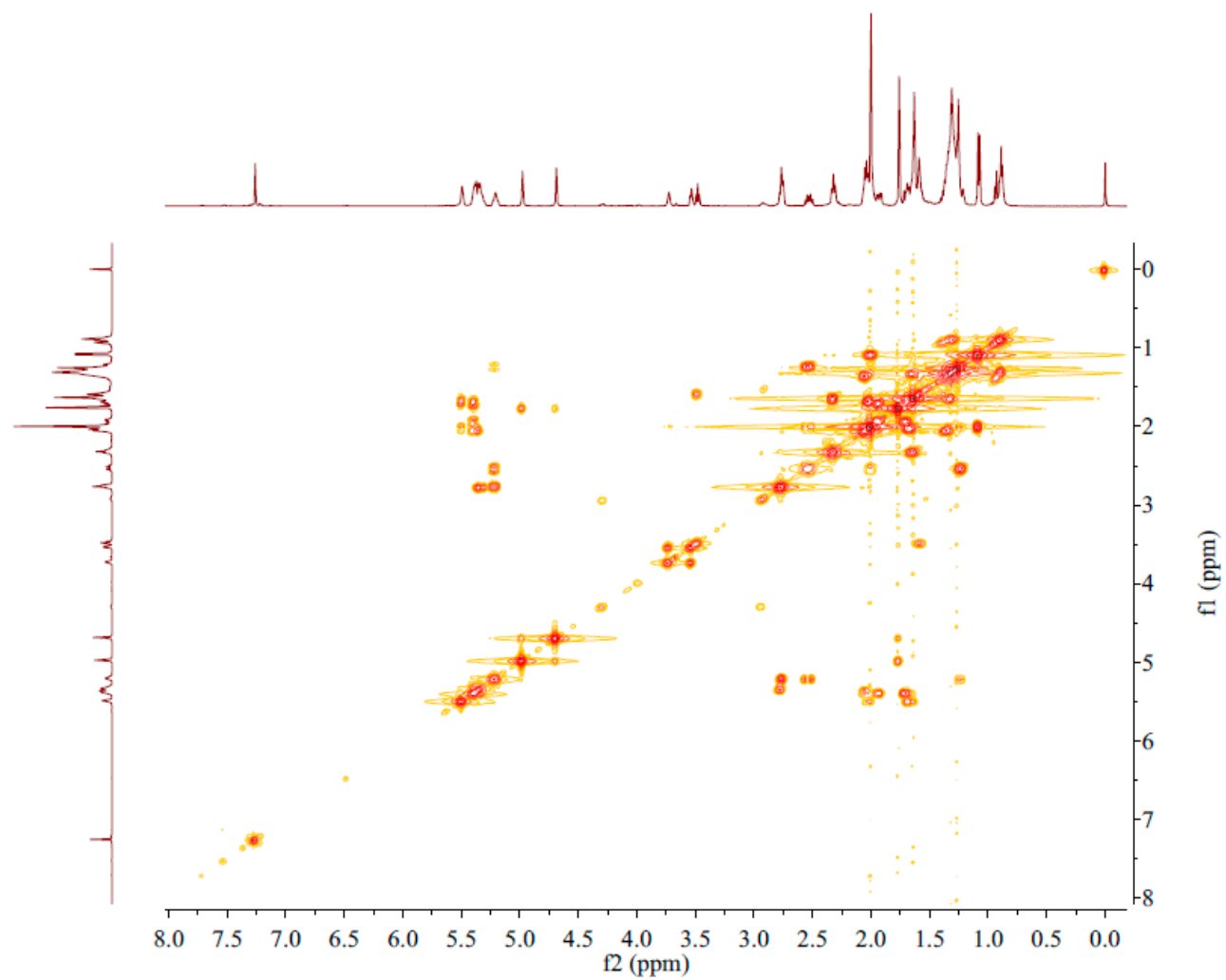


Figure S5. HSQC spectrum of compound **1**.

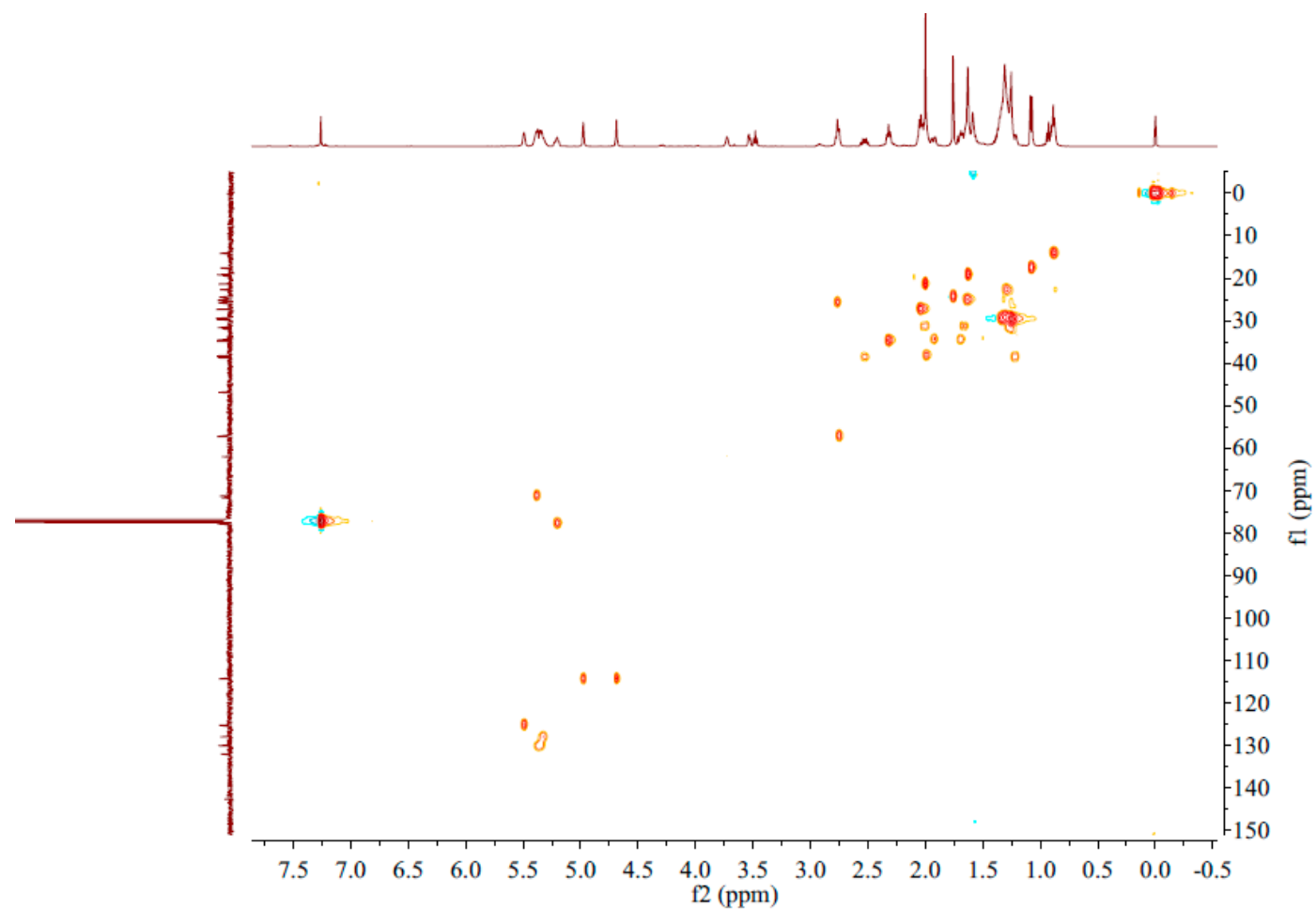


Figure S6. HMBC spectrum of compound **1**.

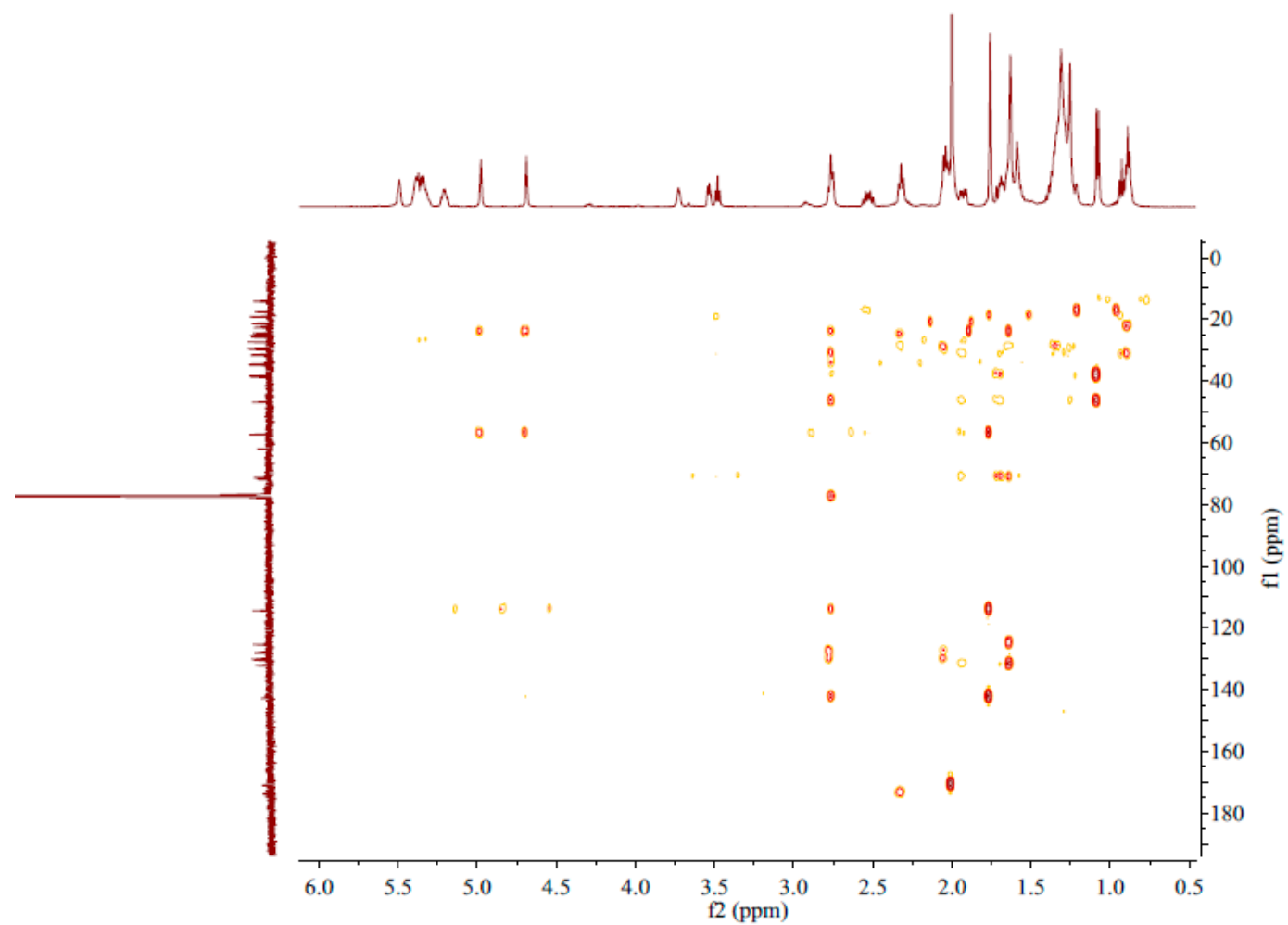


Figure S7. NOESY spectrum of compound **1**.

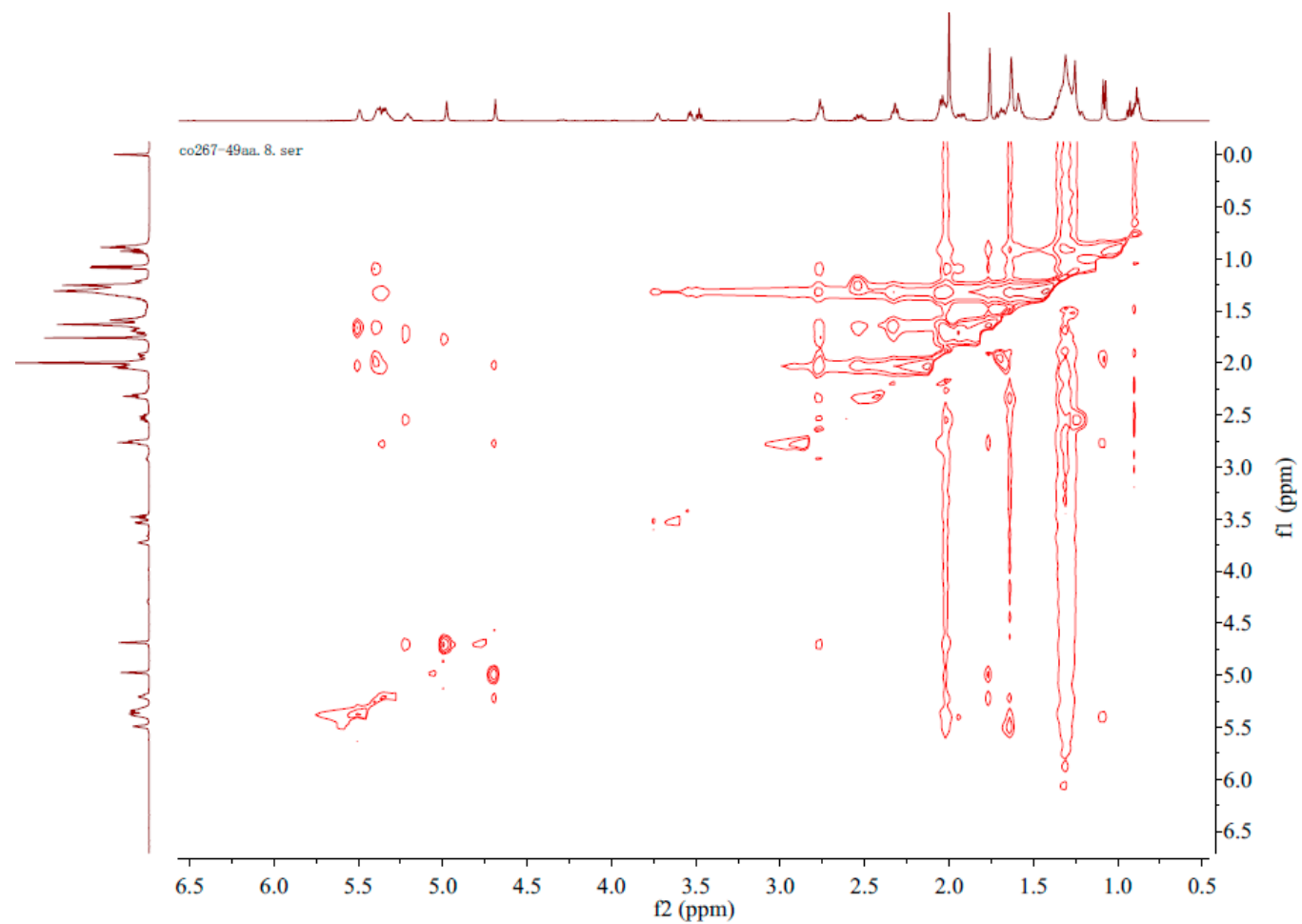


Figure S8. HRESI mass spectrum of compound **2**.

20190708-CO267-59_190704100649 #36 RT: 0.38 AV: 1 NL: 6.99E6
T: FTMS + p ESI Full ms [150.00-1000.00]

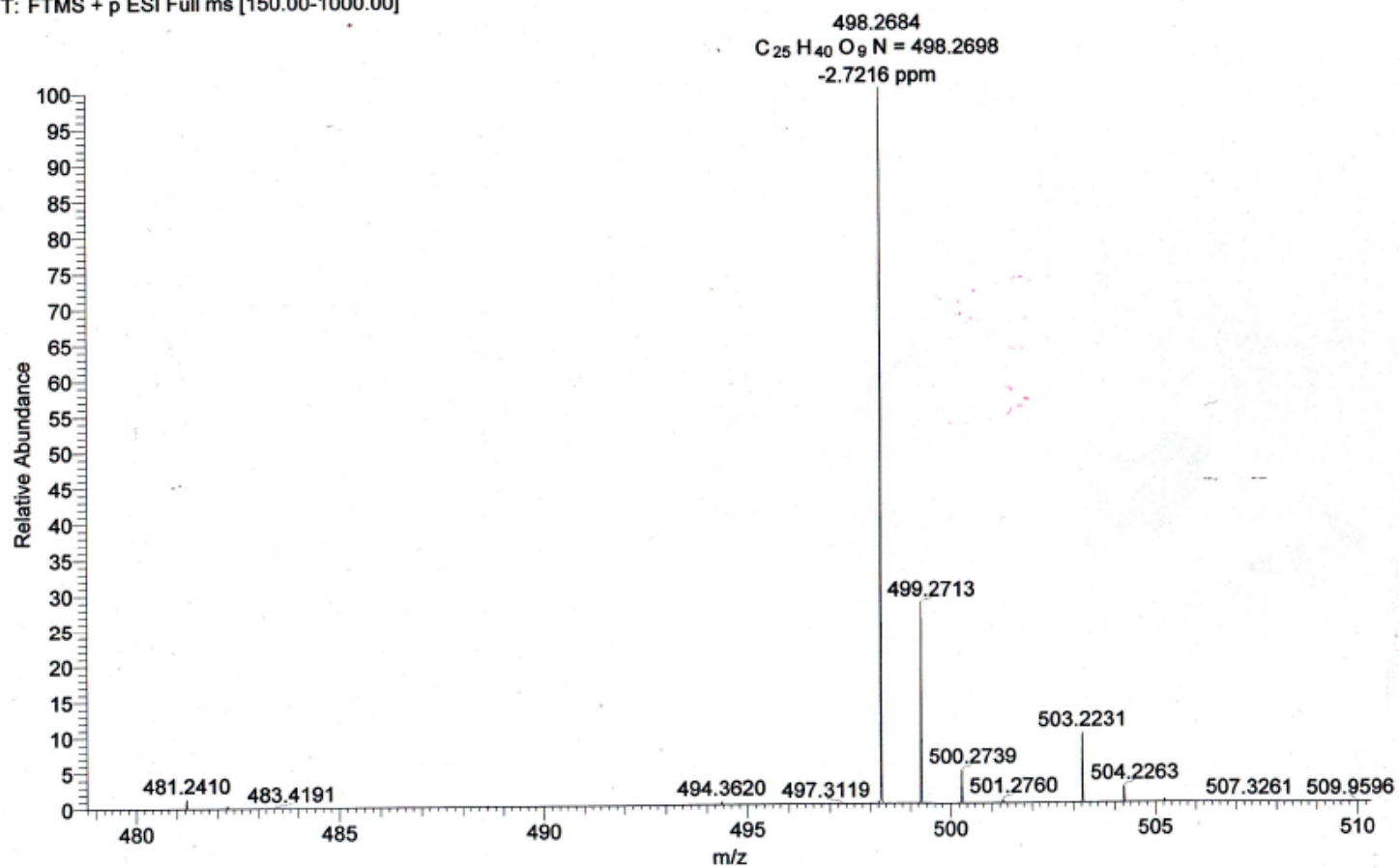
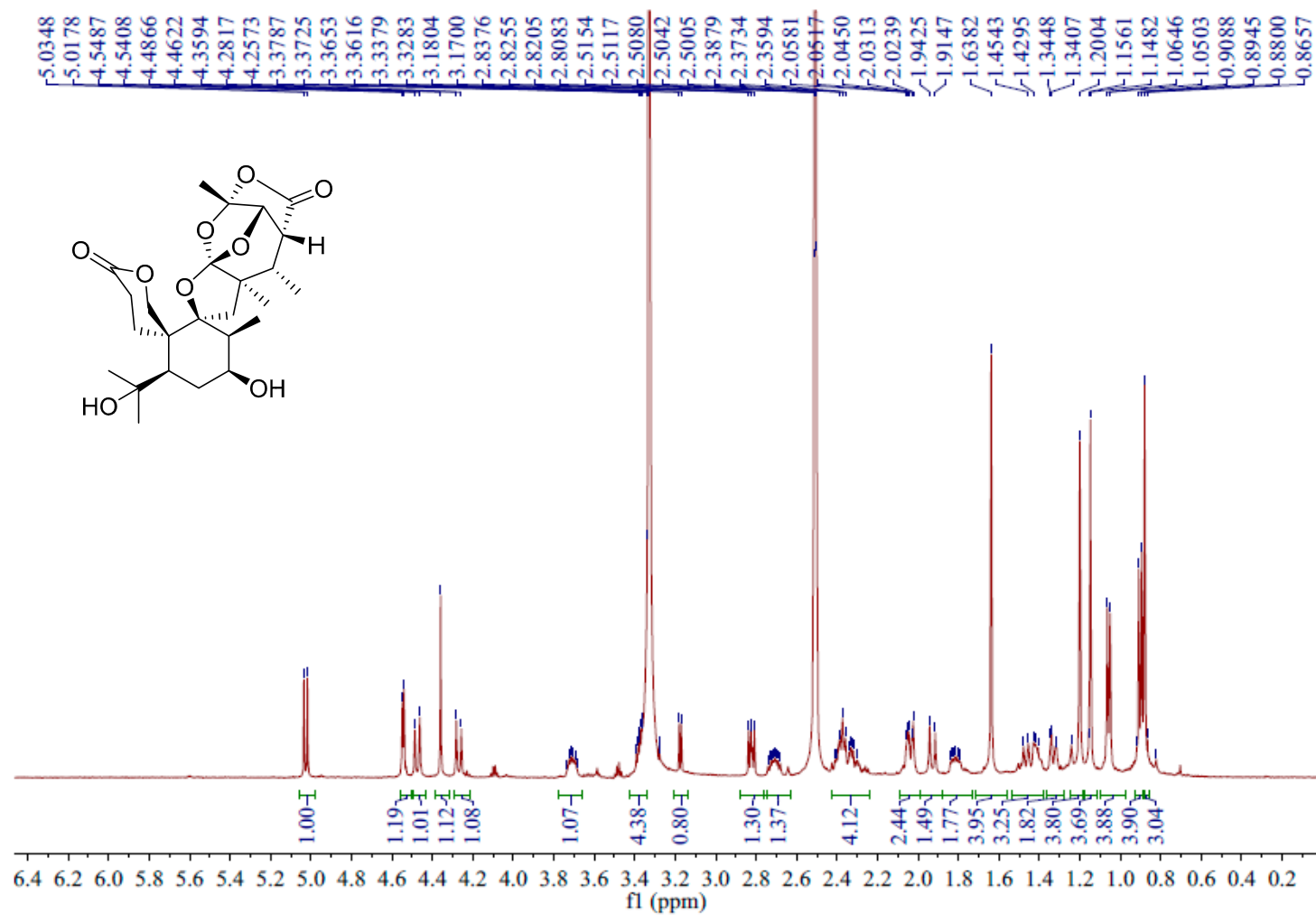


Figure S9. ^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of compound **2**.



Chemical structure of compound 1 is shown. The ^{13}C NMR spectrum (f1 (ppm)) displays the following peak list:

Peak List (ppm)
175.27
173.14
127.94
107.18
92.07
77.46
72.96
66.98
48.98
46.89
46.51
44.61
41.22
40.04
39.95
39.88
39.79
39.71
39.62
39.55
39.45
39.39
39.29
39.12
38.95
34.25
29.25
29.03
25.76

Figure S11. COSY spectrum of compound **2**.

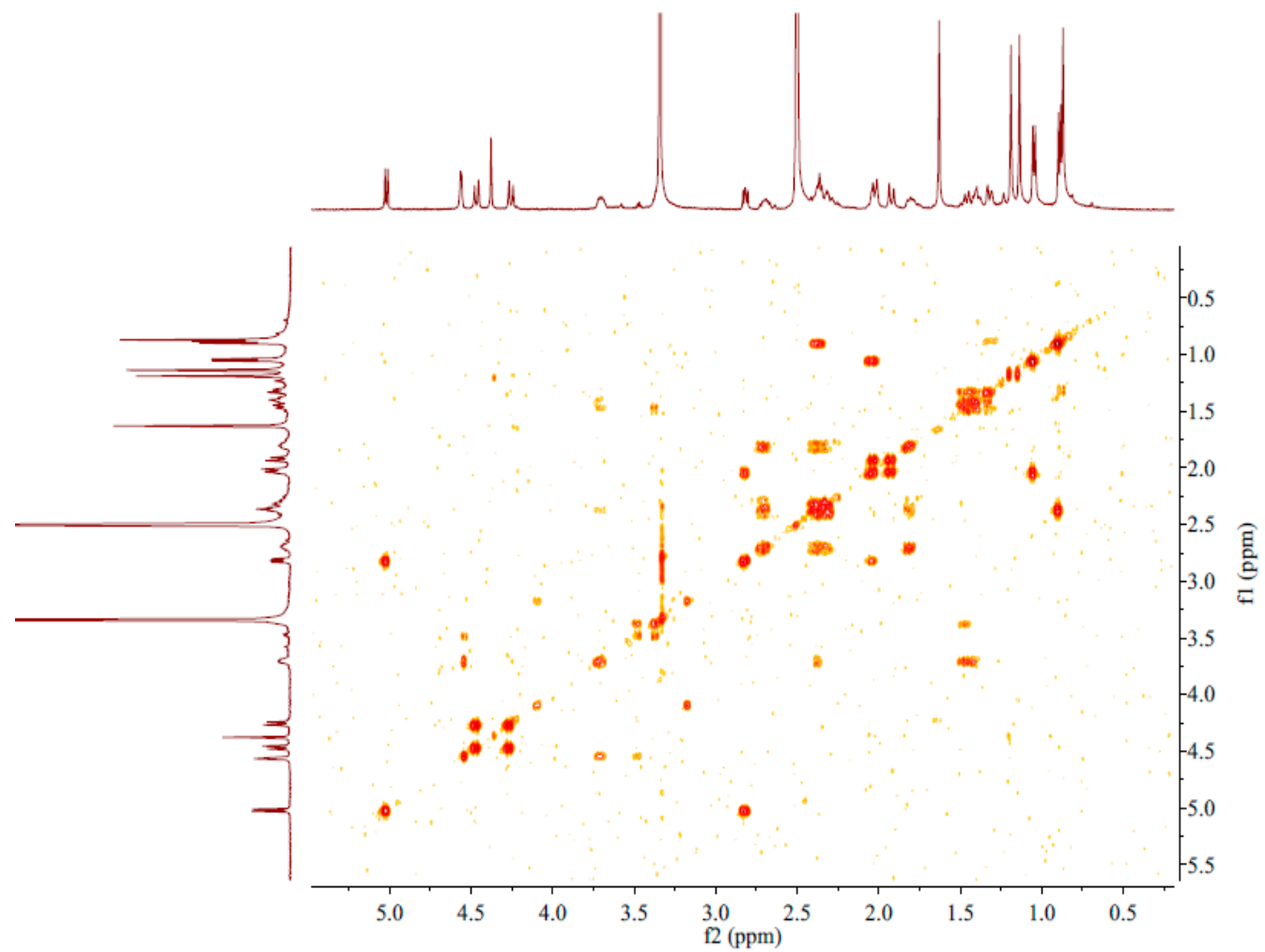


Figure S12. HSQC spectrum of compound 2.

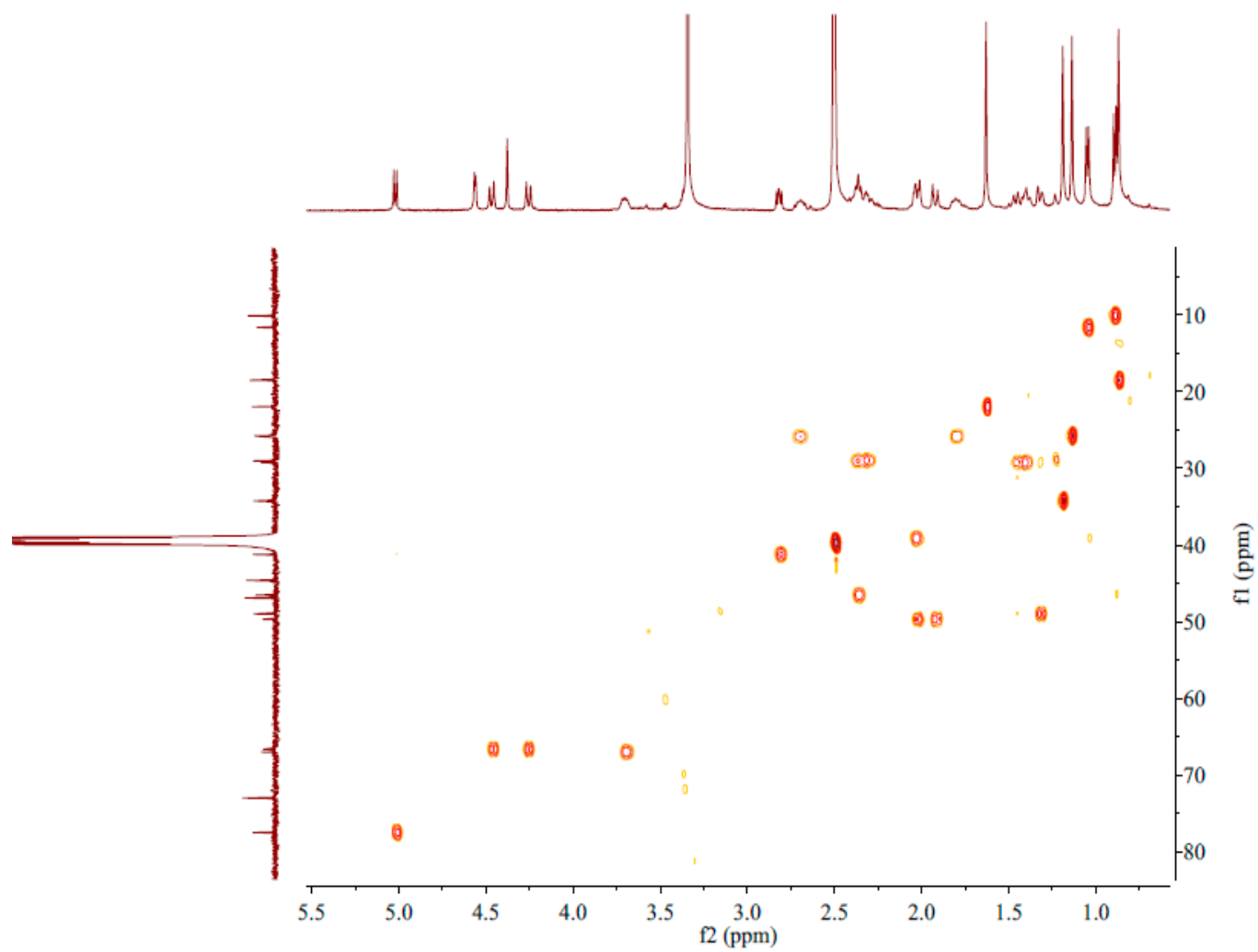


Figure S13. HMBC spectrum of compound **2**.

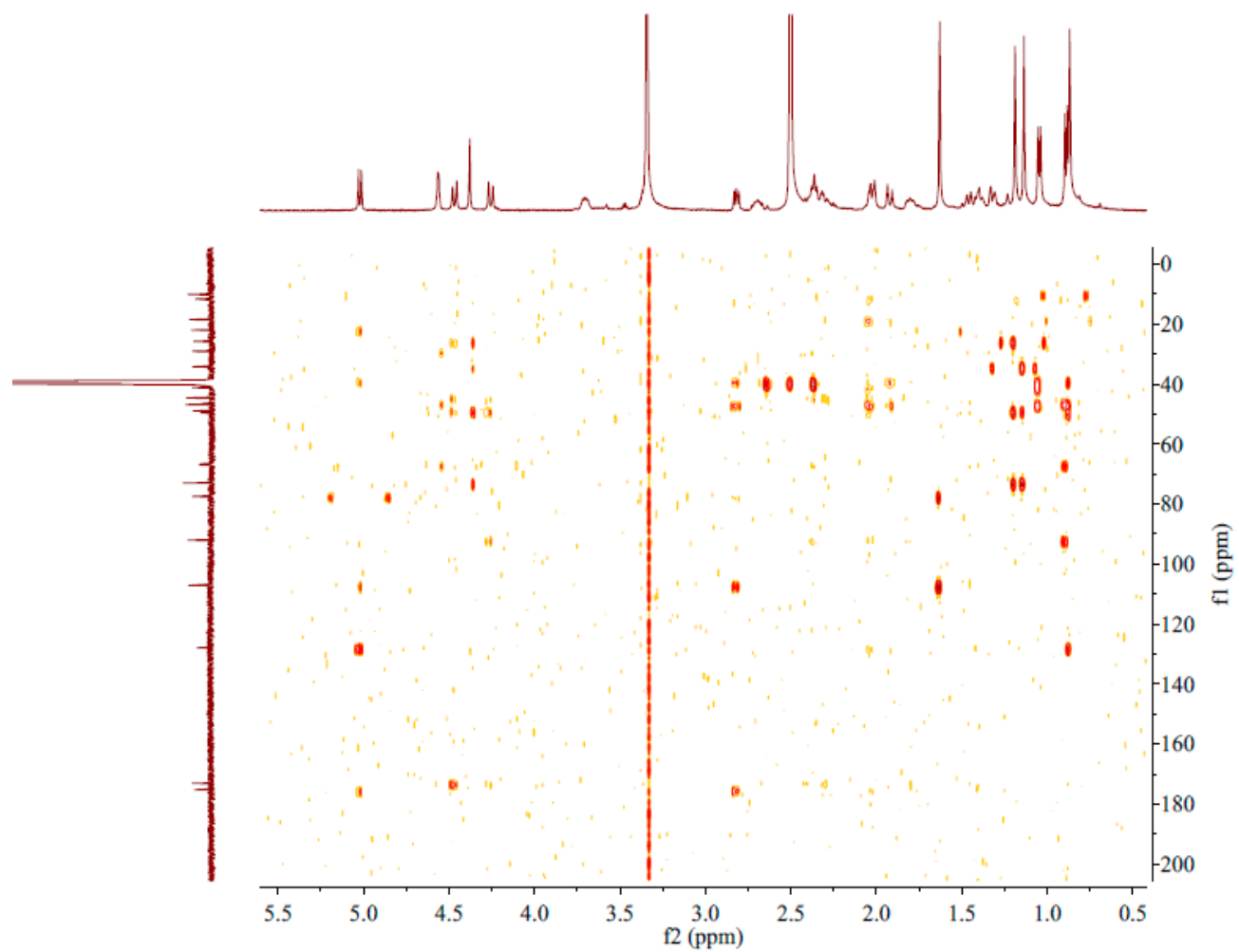


Figure S14. NOESY spectrum of compound 2.

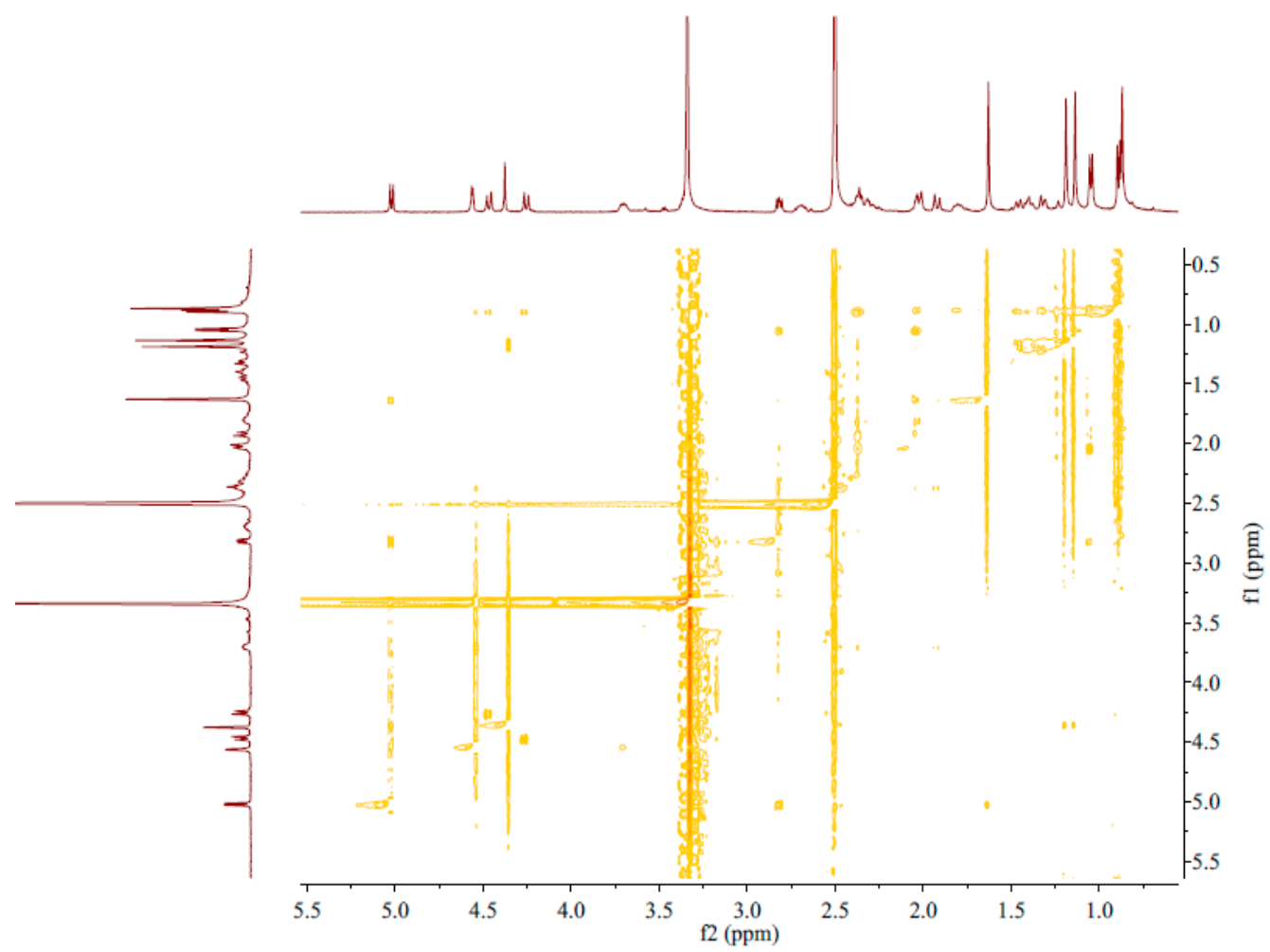


Figure S15. ^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of compound 6.

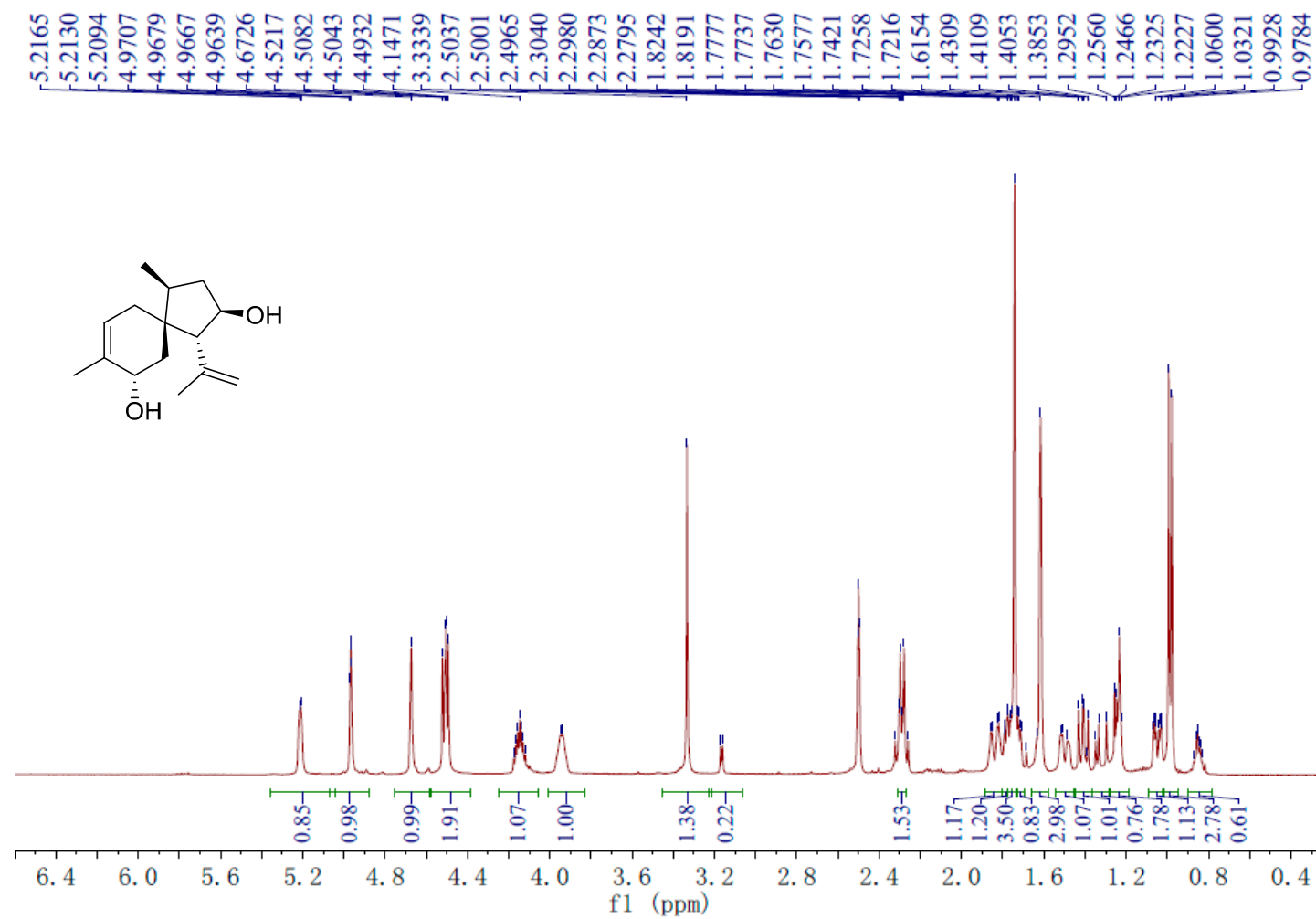


Figure S16. ^{13}C NMR (125 MHz, $\text{DMSO-}d_6$) and DEPT spectra of compound **6**.

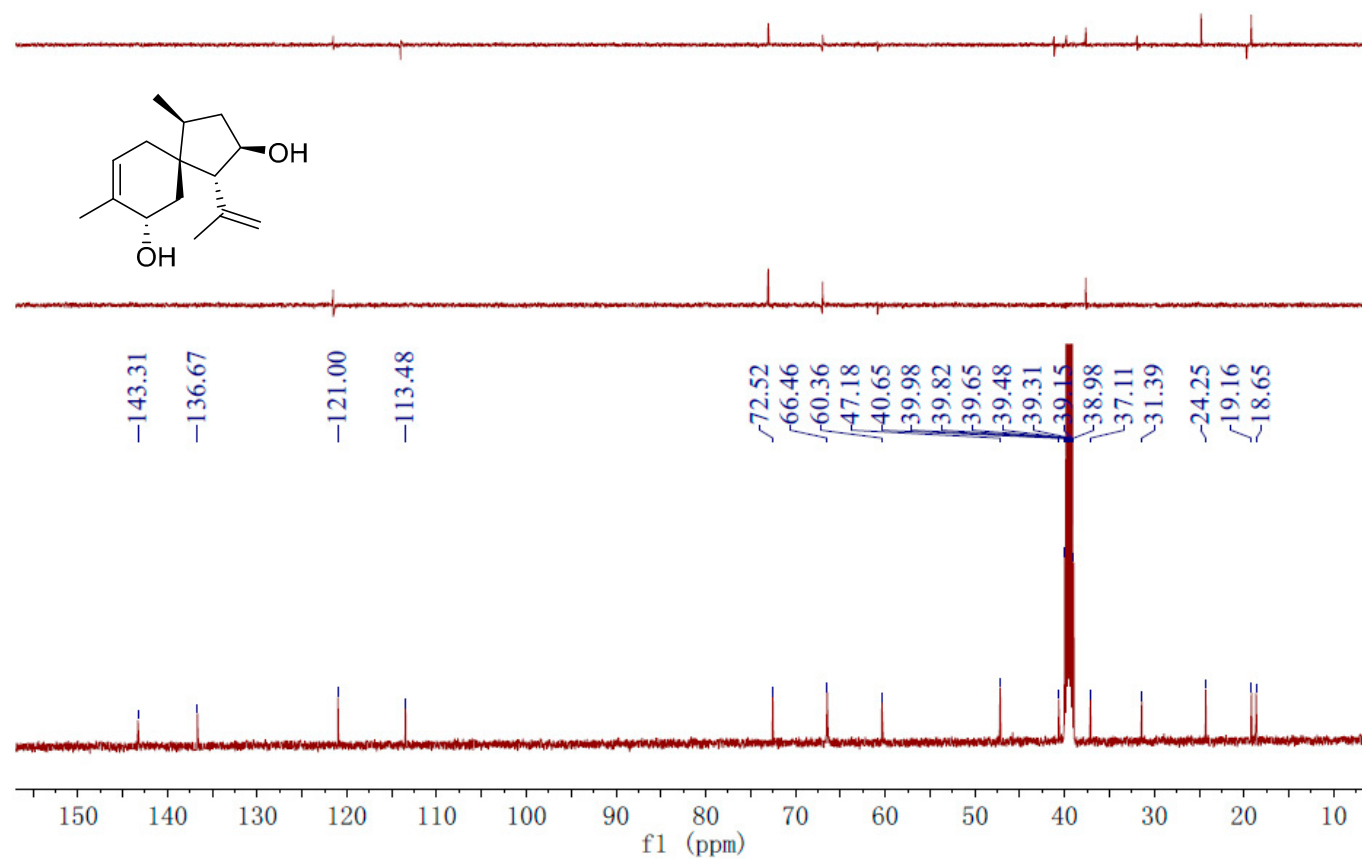


Figure S17. COSY spectrum of compound **6**.

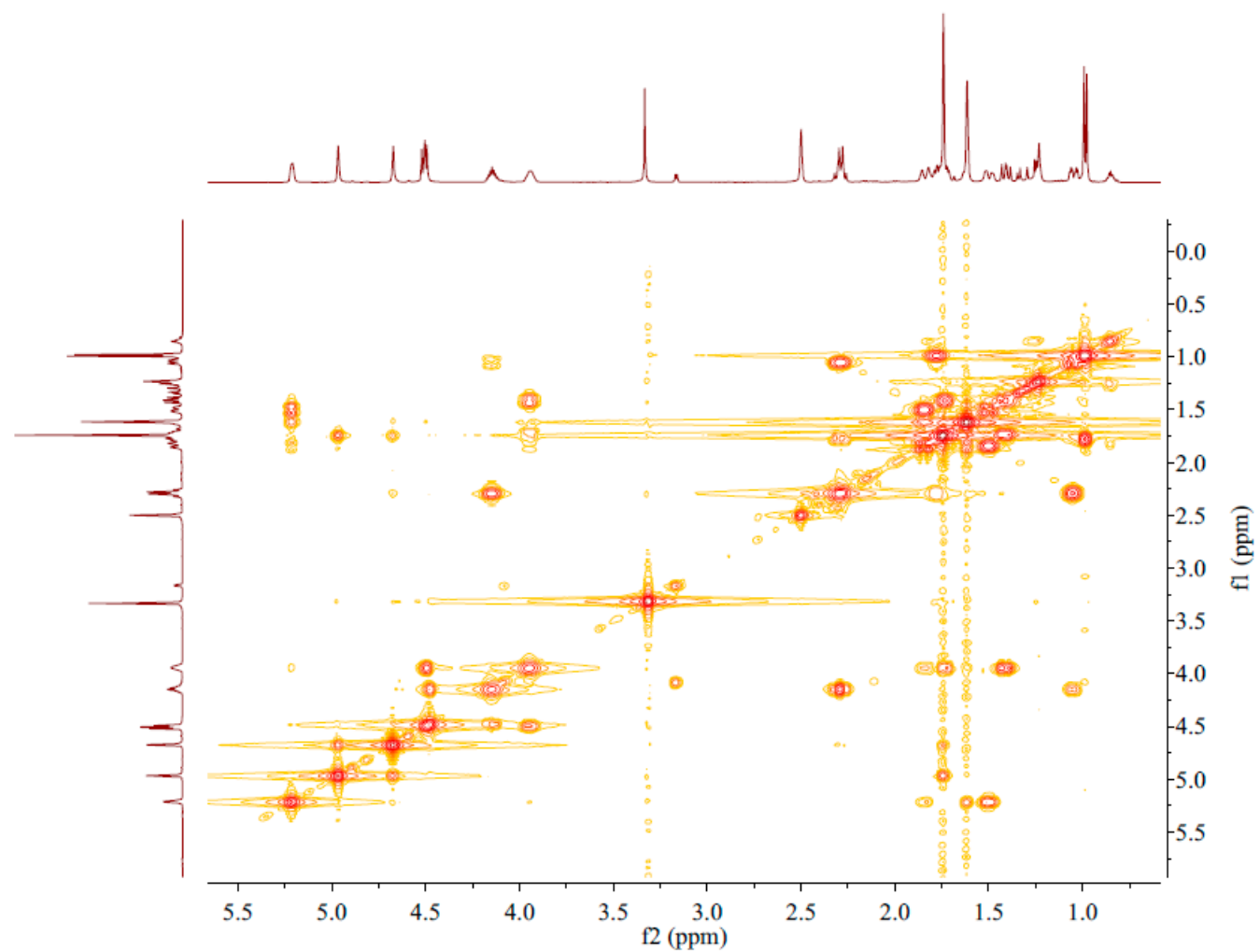


Figure S18. HSQC spectrum of compound 6.

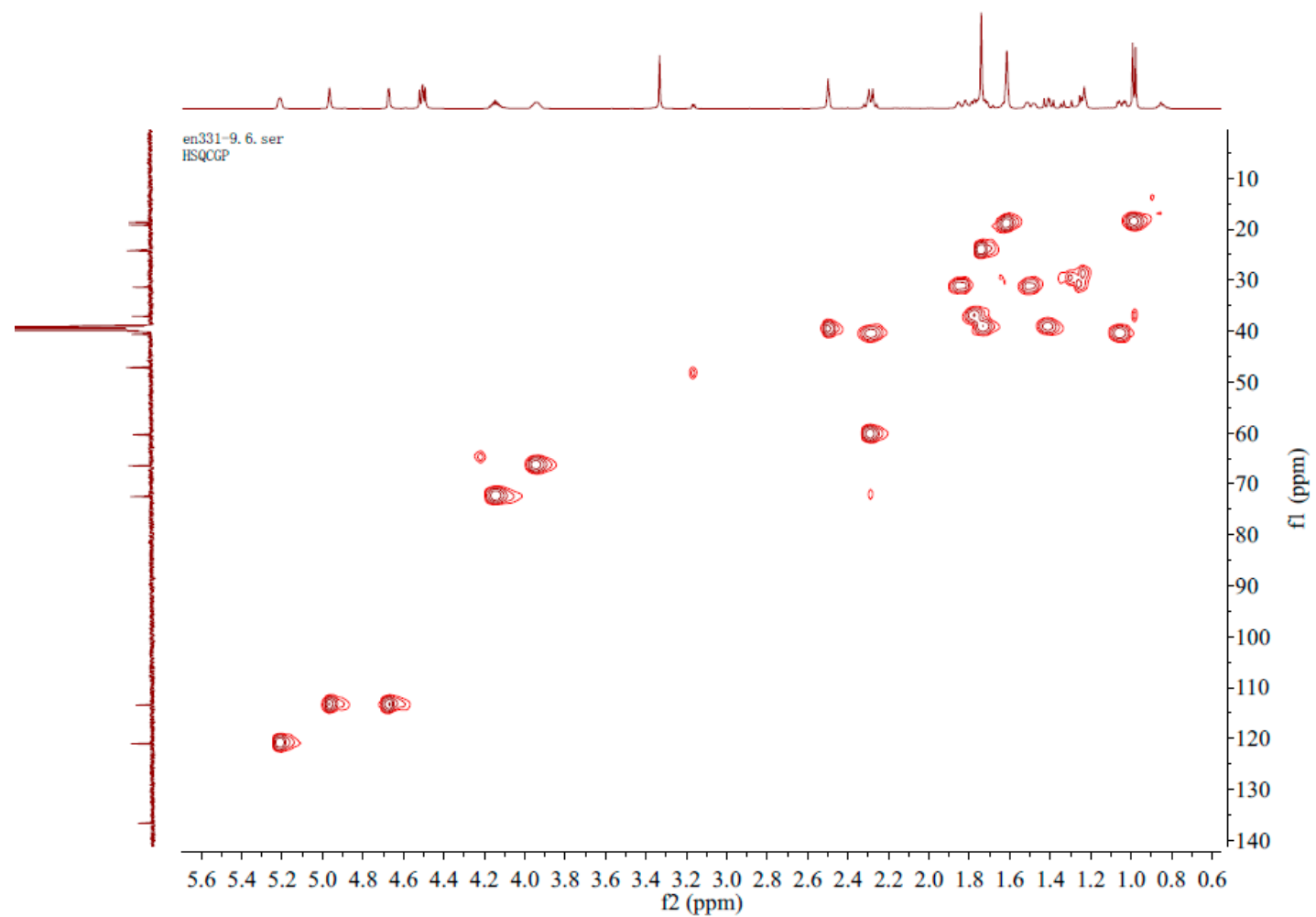


Figure S19. HMBC spectrum of compound **6**.

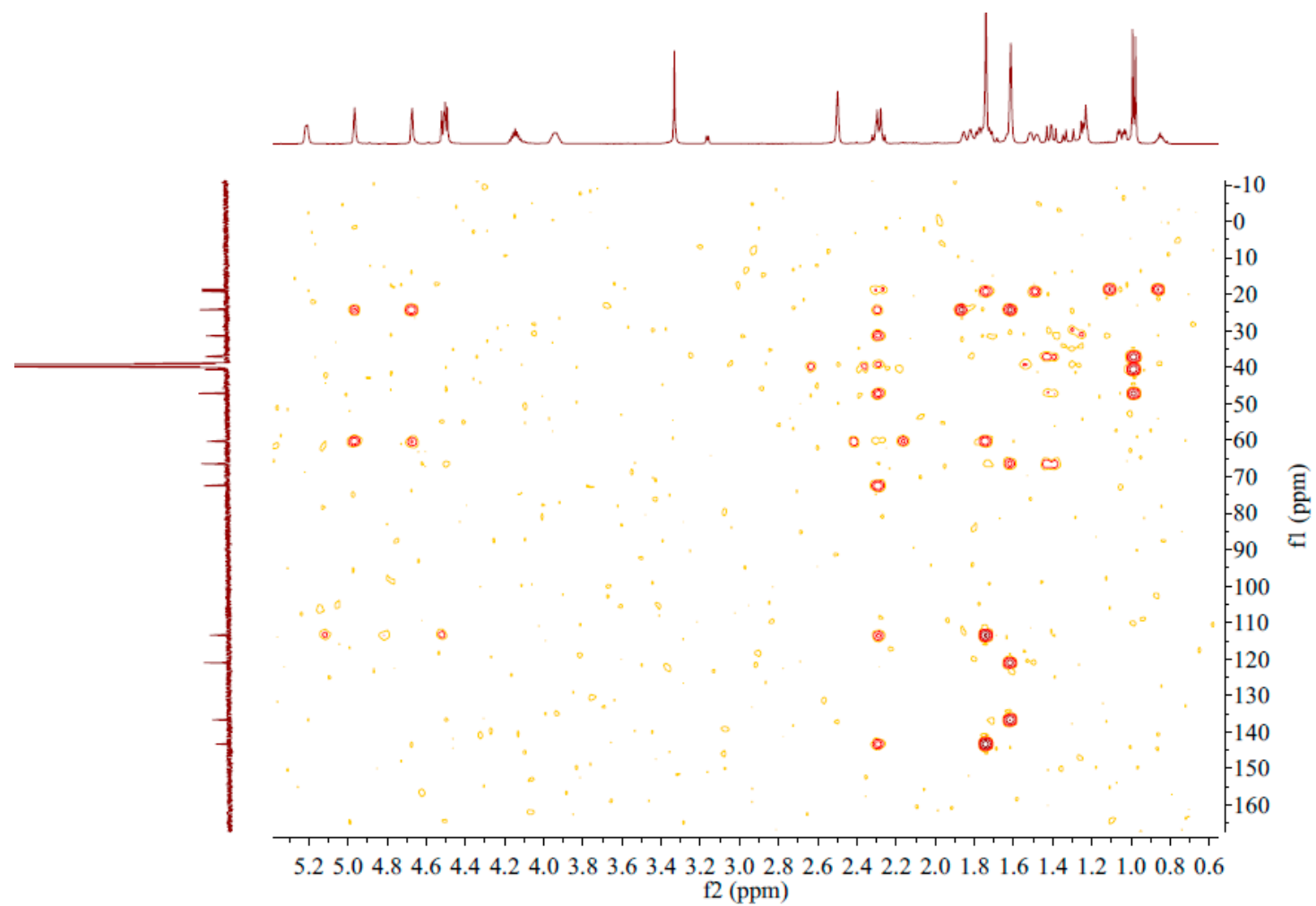


Figure S20. NOESY spectrum of compound **6**.

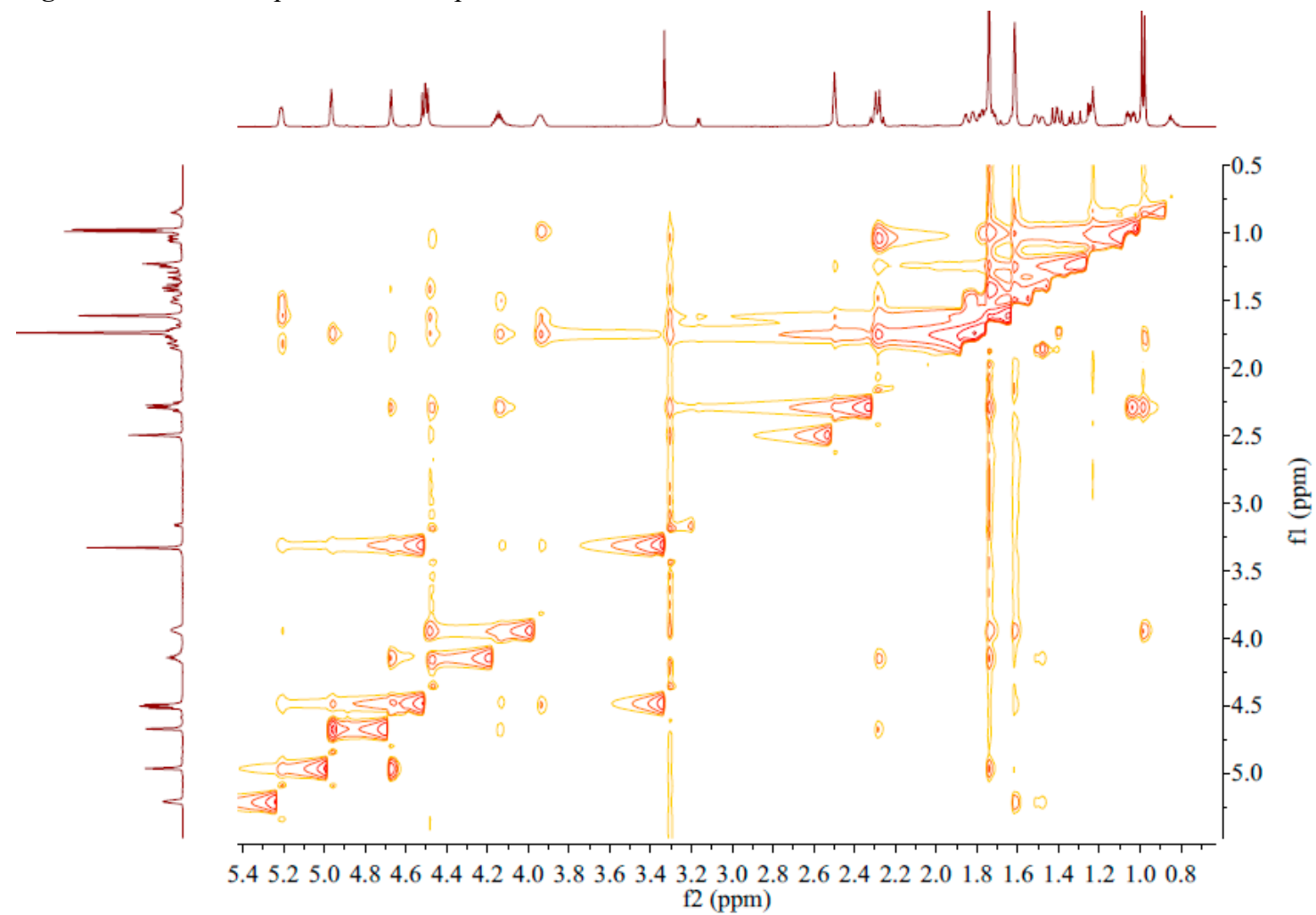


Figure S21. ^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of (*S*)-MTPA ester (**6a**).

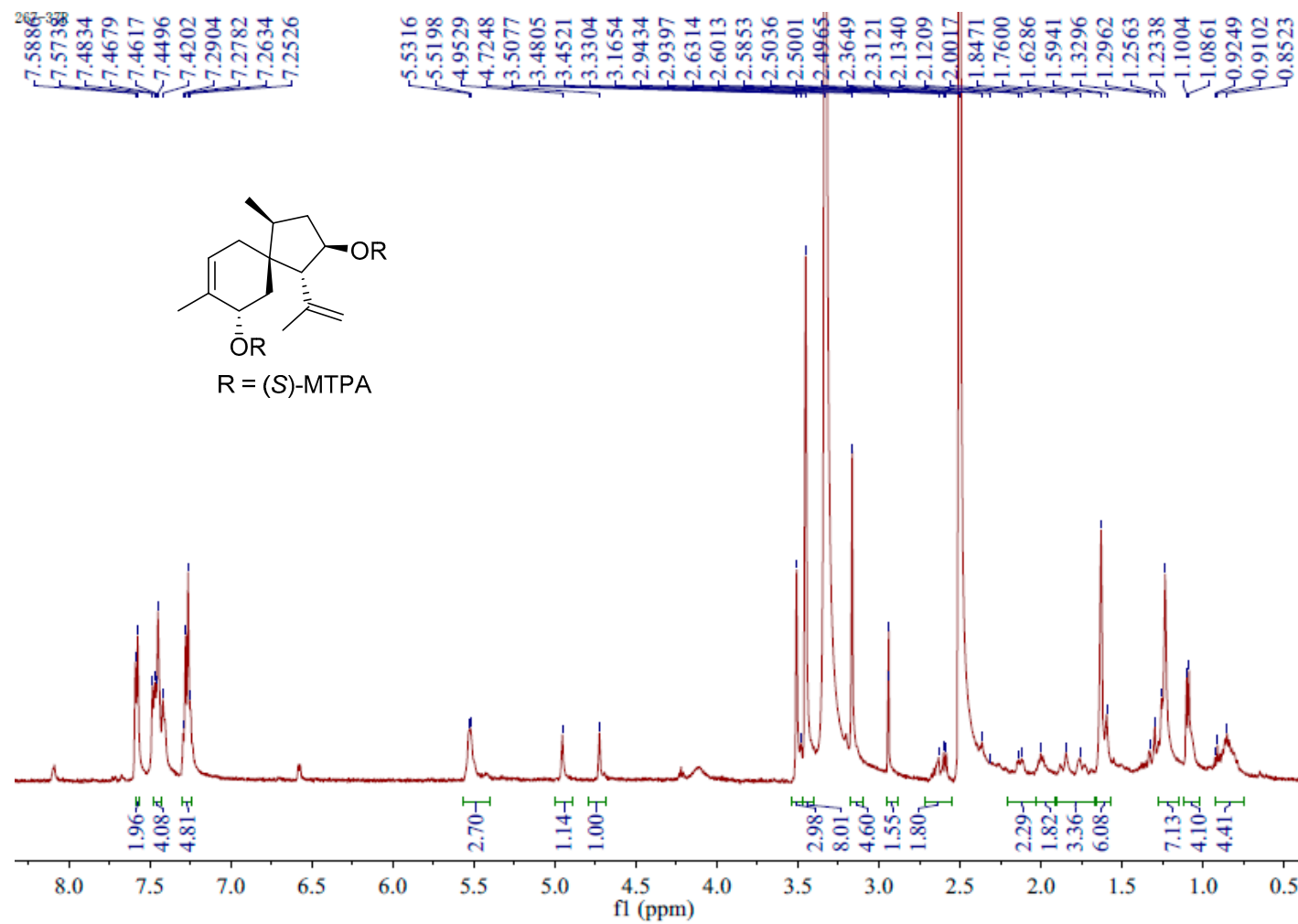


Figure S22. ^1H NMR (500 MHz, $\text{DMSO}-d_6$) spectrum of (*R*)-MTPA ester (**6b**).

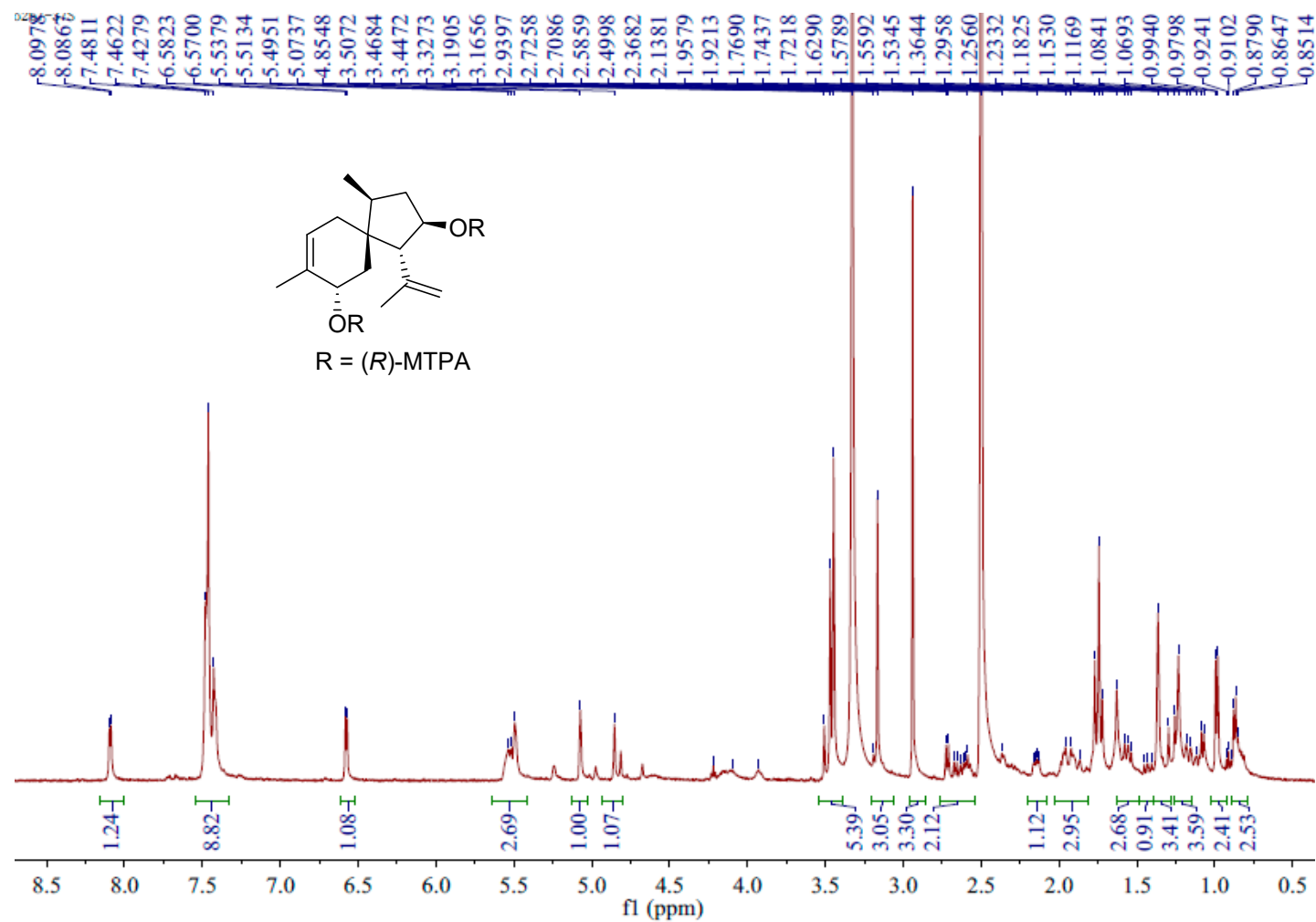


Figure S23. HPLC profiles of the EtOAc extract of (a) *P. bilaiae* MA-267, (b) *P. chermesinum* EN-480, and (c) co-culture.

