

Desertomycin G, a new antibiotic with activity against *Mycobacterium tuberculosis* and human breast tumor cell lines produced by *Streptomyces althioticus* MSM3, isolated from the Cantabrian Sea intertidal macroalgae *Ulva* sp.

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List of supplementary materials

Figure S1. HPLC-UV trace and UV Spectrum of compound 1.

Figure S2. ESI-TOF Spectrum of compound 1.

Figure S3. ¹H NMR spectrum (CD₃OD, 500 MHz) of compound 1.

Figure S4. ¹³C NMR spectrum (CD₃OD, 125 MHz) of compound 1.

Figure S5. COSY spectrum of compound 1.

Figure S6. COSY spectrum of compound 1 (Expansion).

Figure S7. HSQC spectrum of compound 1.

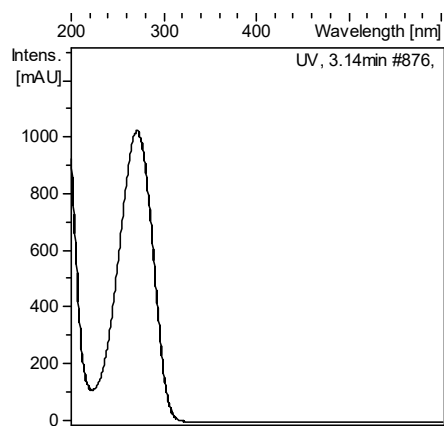
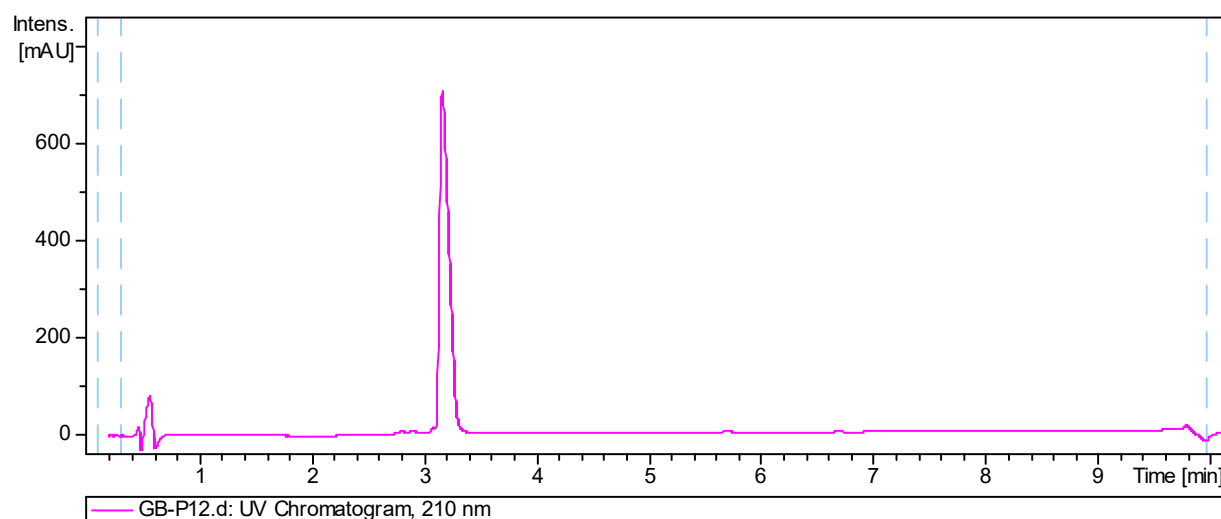
Figure S8. HMBC spectrum of compound 1.

Figure S9. NOESY spectrum of compound 1.

Figure S10. NOESY spectrum of compound 1 (Expansion).

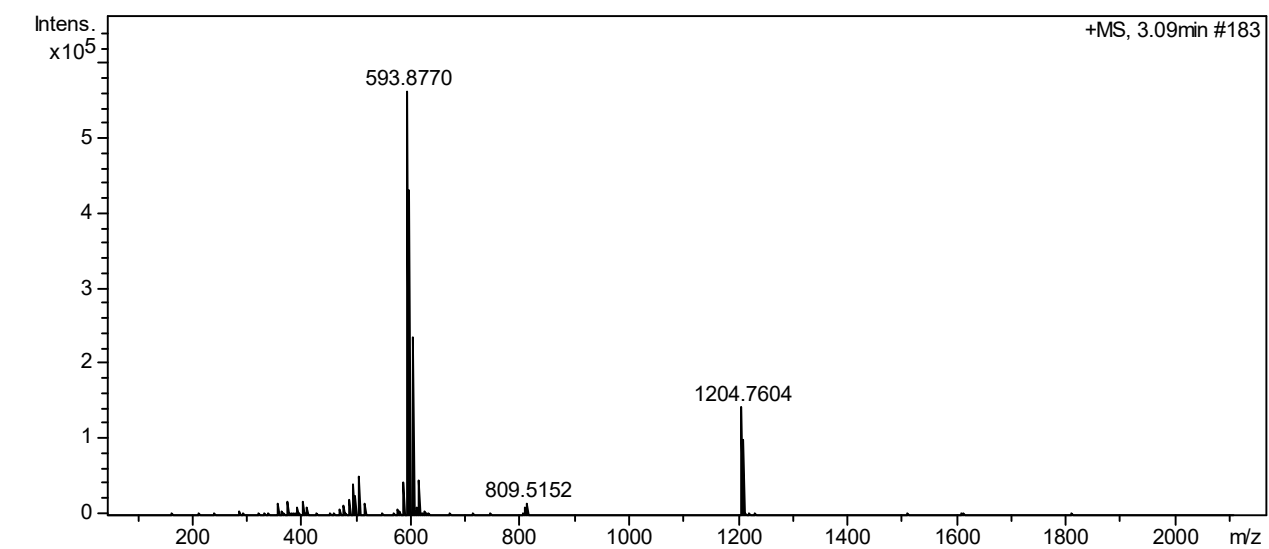
Video 1. Time-lapsed recording of MCF-7 cells (control).

Video 2: Time-lapsed recording of MCF-7 cells treated with 50 mM desertomycin G

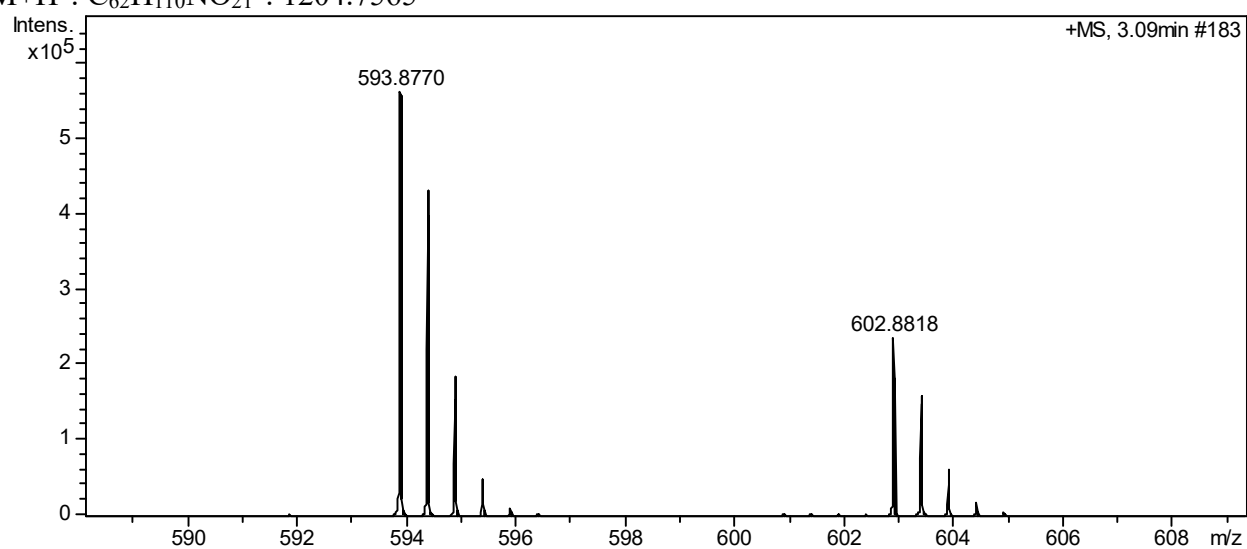


$\lambda_{\text{max}}=271\text{nm}$

Figure S1. HPLC trace and UV spectrum of compound **1**.



$M+H^+$: $C_{62}H_{110}NO_{21}^+$: 1204.7565



$M+2H^+$: $C_{62}H_{111}NO_{21}^{2+}$: 602.8819

$M-H_2O+2H^+$: $C_{62}H_{109}NO_{20}^{2+}$: 593.8766

Figure S2. ESI-TOF spectrum of compound 1.

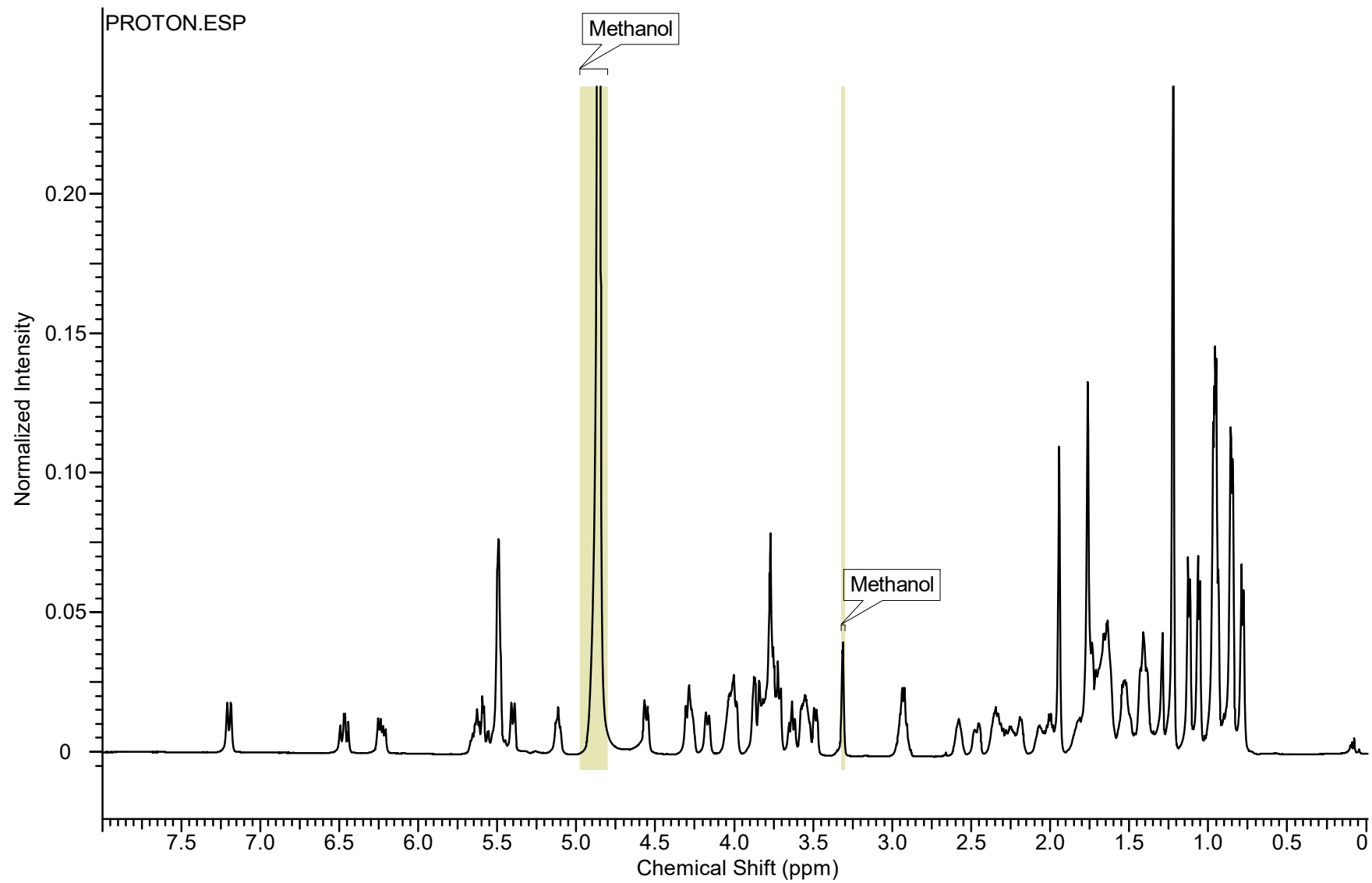


Figure S3. ^1H NMR (CD_3OD , 500 MHz) of compound 1.

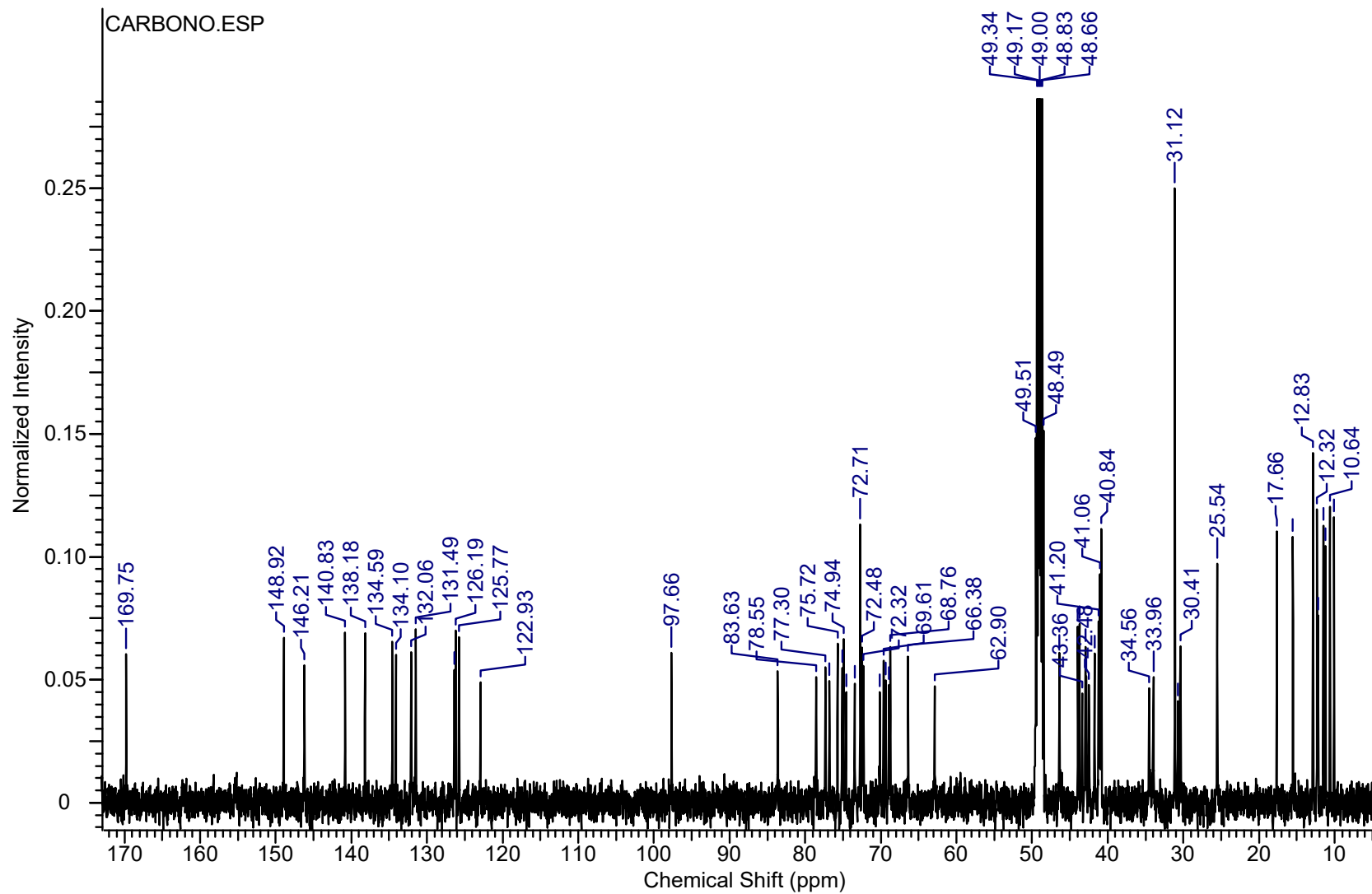


Figure S4. ^{13}C NMR (CD_3OD , 125 MHz) of compound **1**.

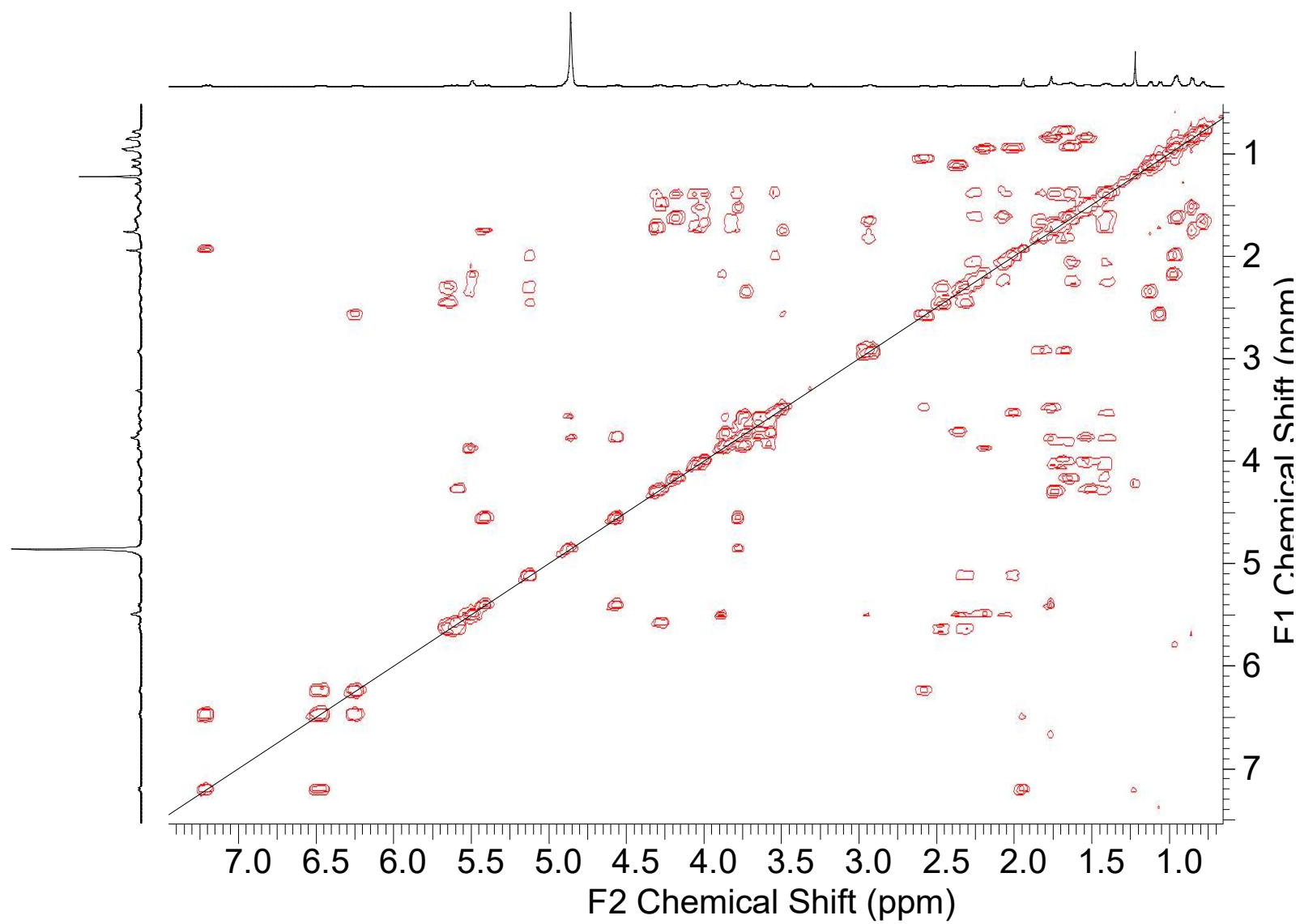


Figure S5. COSY spectrum of compound 1.

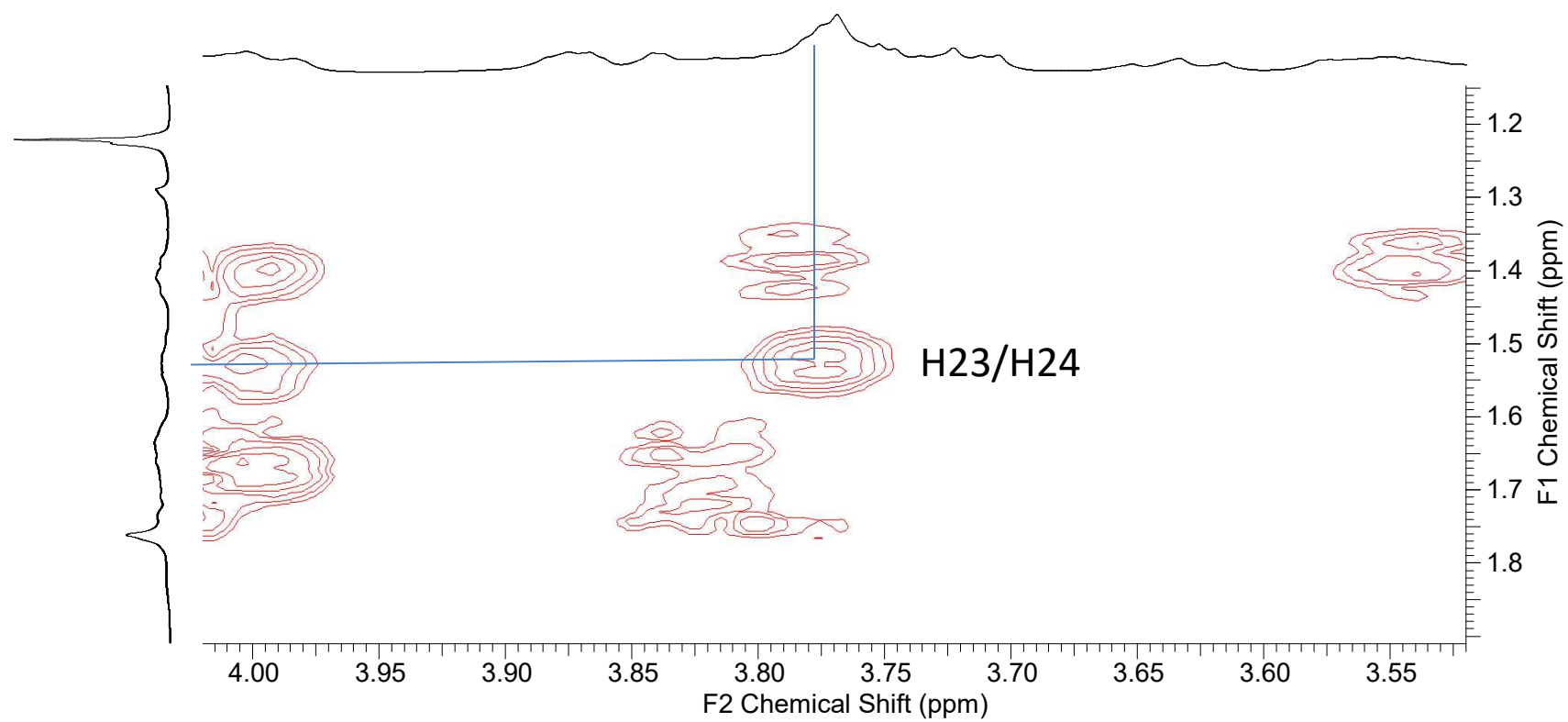


Figure S6. COSY spectrum of compound **1** (expansion).

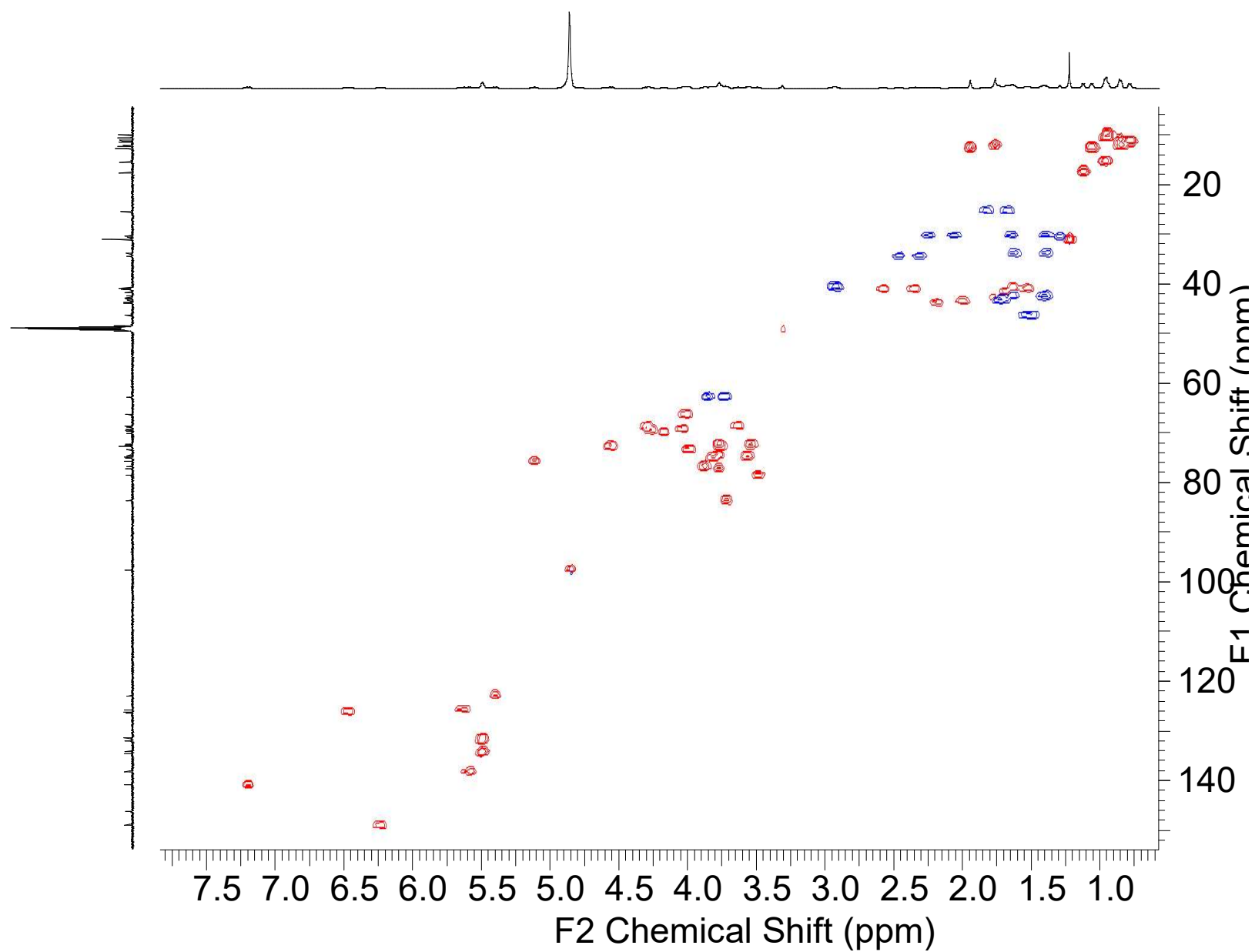


Figure S7. HSQC spectrum of compound 1.

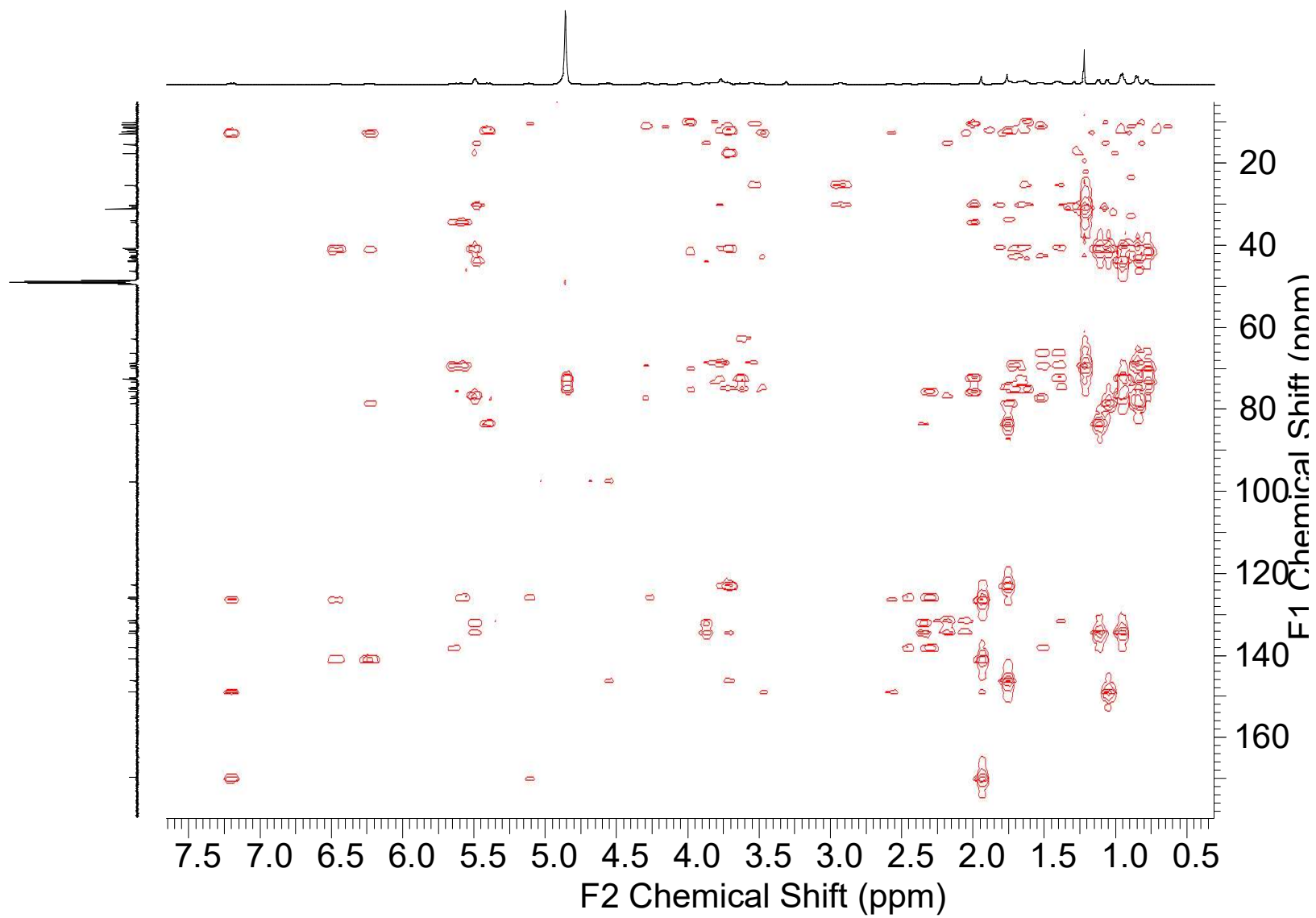


Figure S8. HMBC spectrum of compound 1.

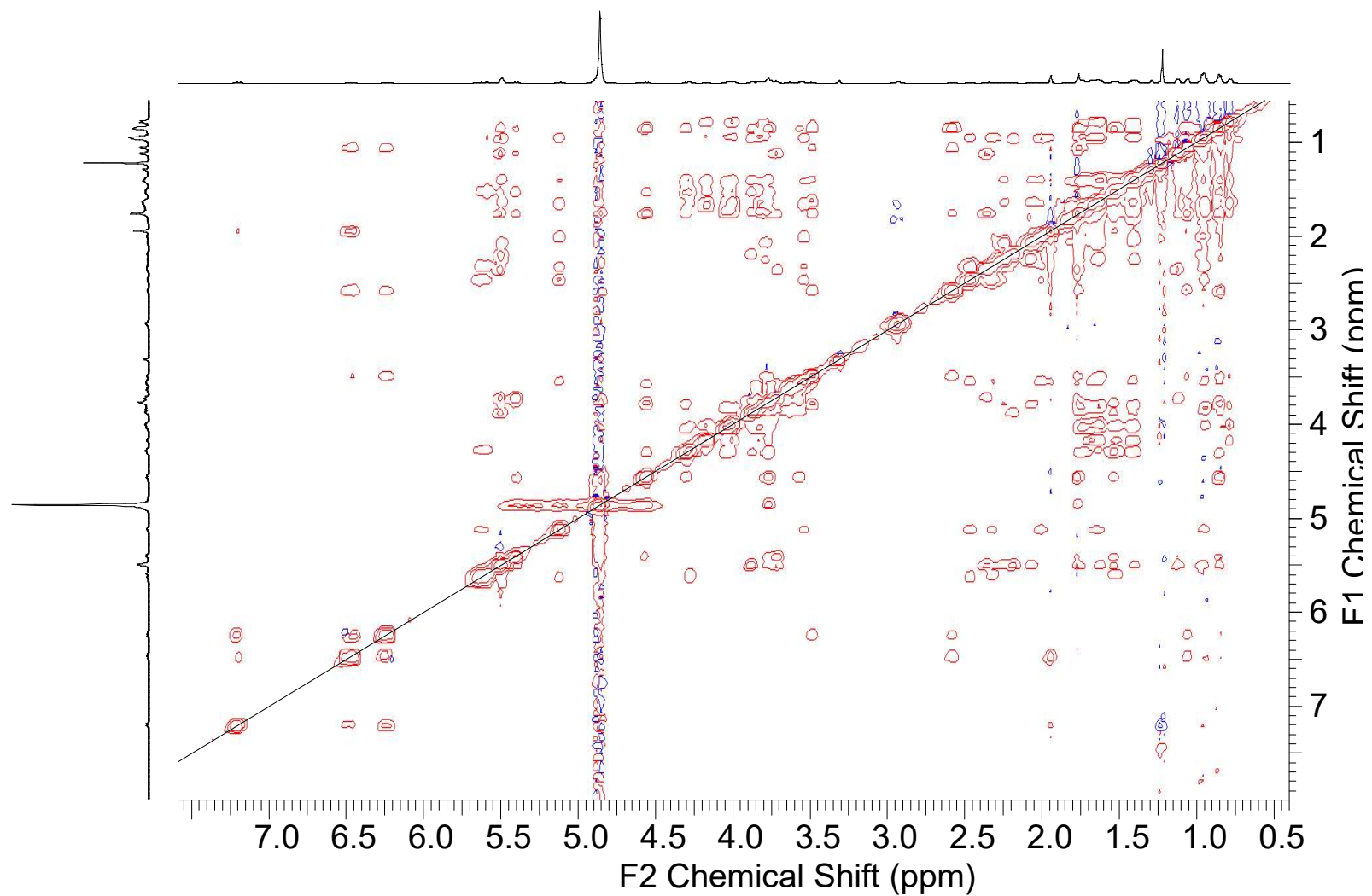


Figure S9. NOESY spectrum of compound 1.

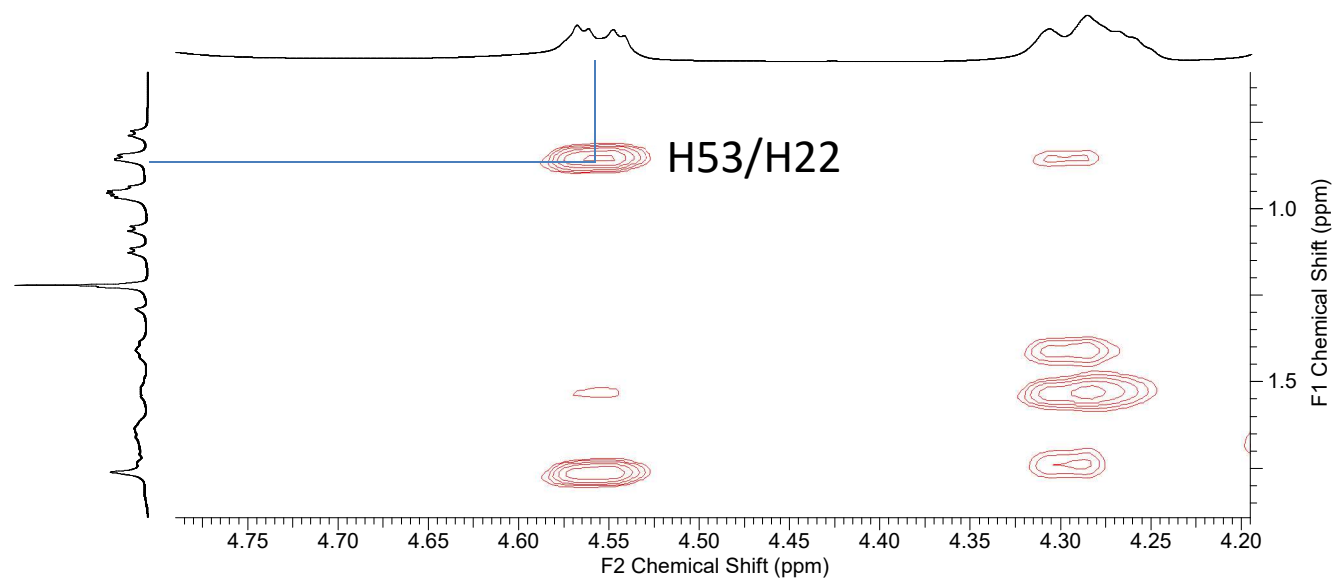


Figure S10. NOESY spectrum of compound **1** (expansion)