

CHEM**BIO**CHEM

Supporting Information

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Supporting Information

for

Shaping the Polypropionate Biosynthesis in the Solar-Powered Mollusc *Elysia viridis*

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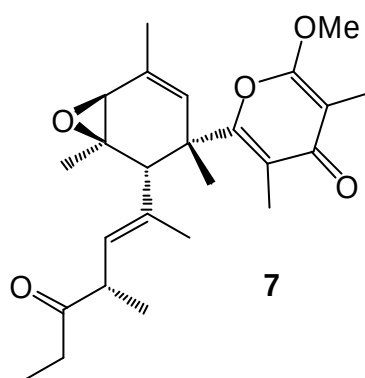
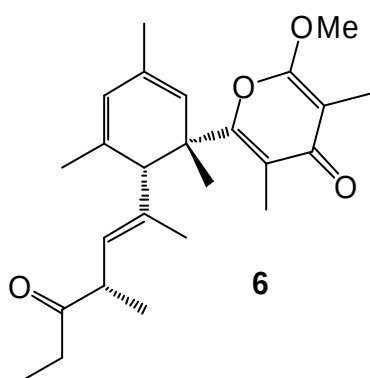
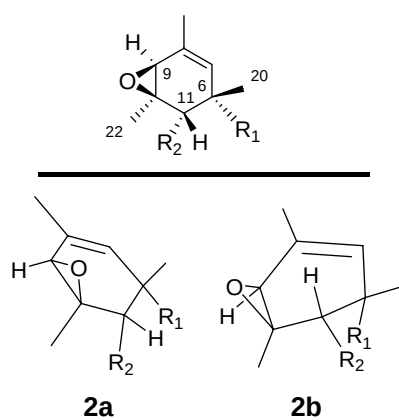
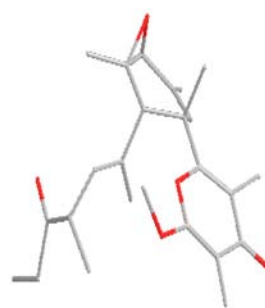


Figure 1. Structure analysis of epoxyelsyione (**2**). (A) Possible conformers (**2a** and **2b**) of 9,10-epoxyelsyione (**2**). R₁ = pyrone ring, R₂ = alkyl chain, (B) NOE-based 3D structure of epoxyelsyione (**2**)

A)



B)



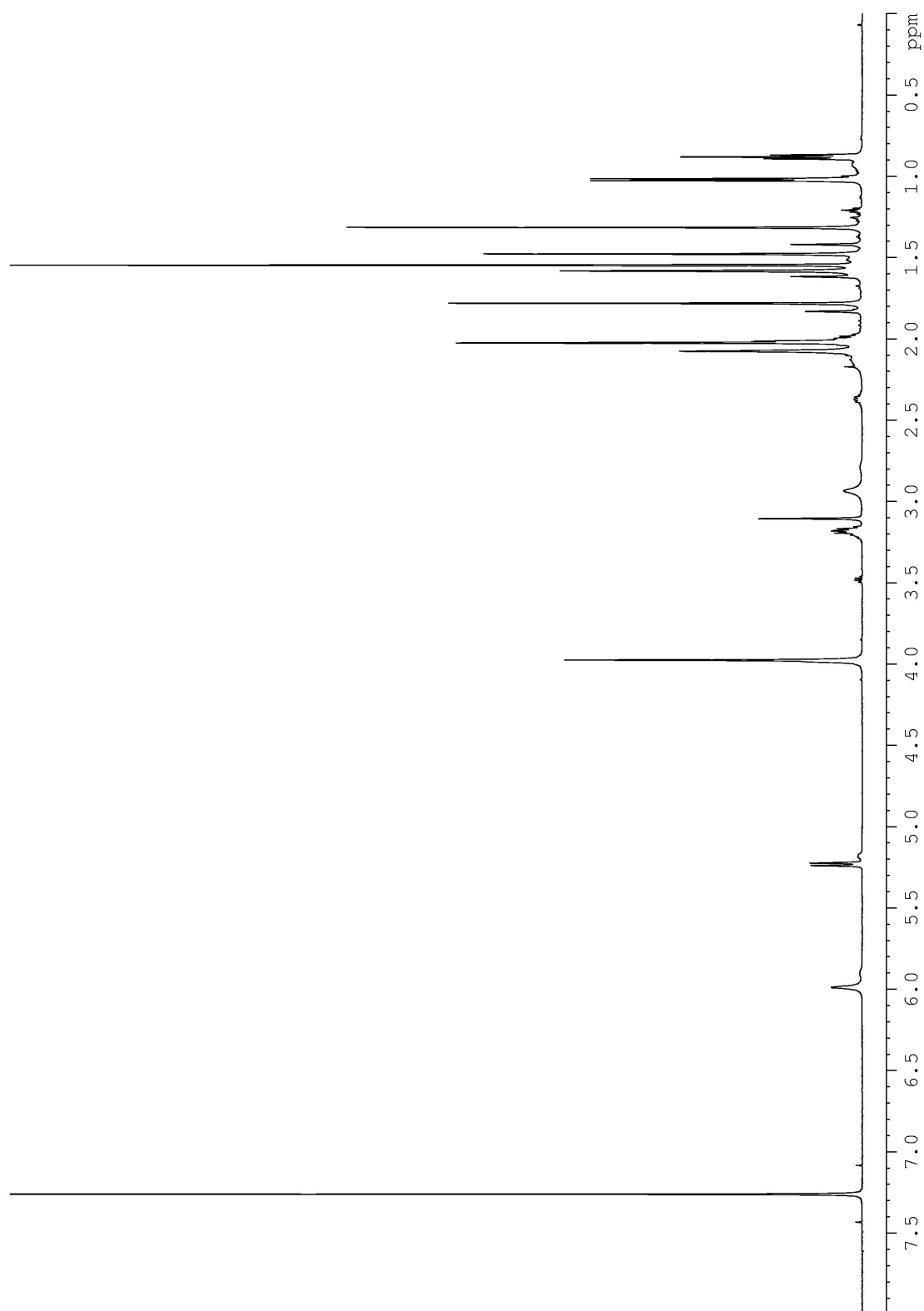


Figure S2. ^1H NMR (600MHz, CDCl_3) of **7**.

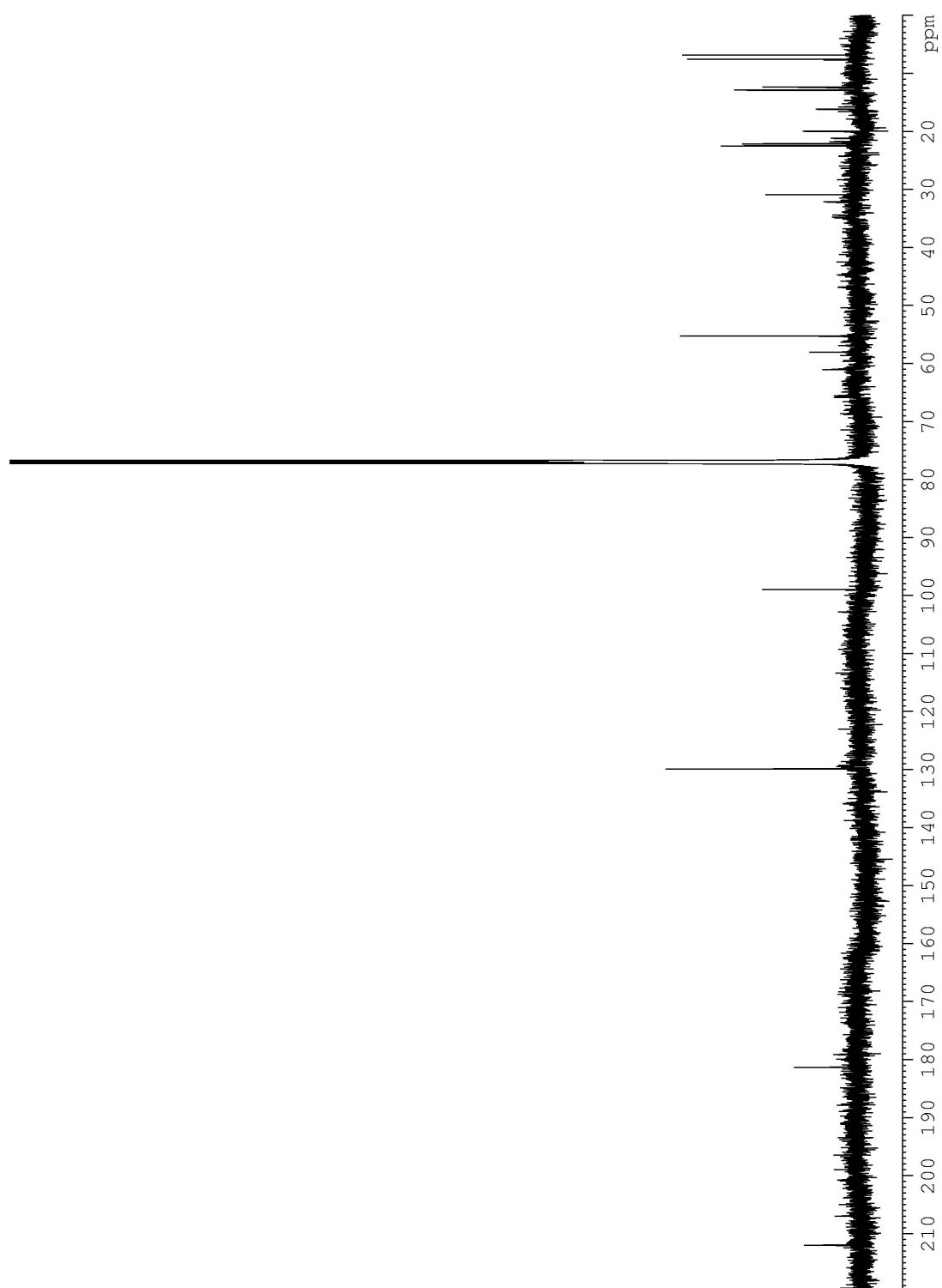


Figure S3. ^{13}C NMR of **7** (600MHz, CDCl_3)

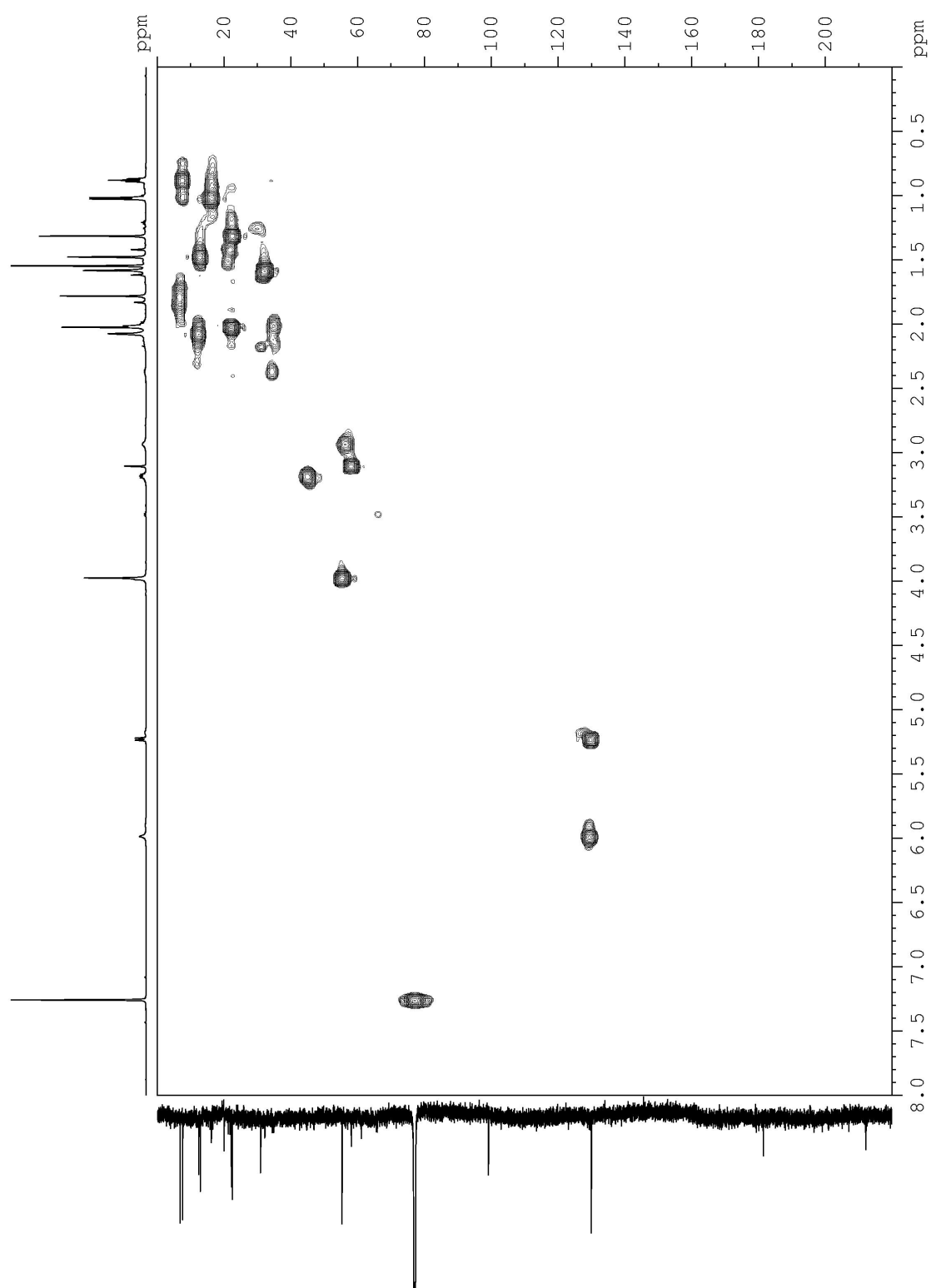


Figure S4. HSQC of **7** (600MHz, CDCl_3)

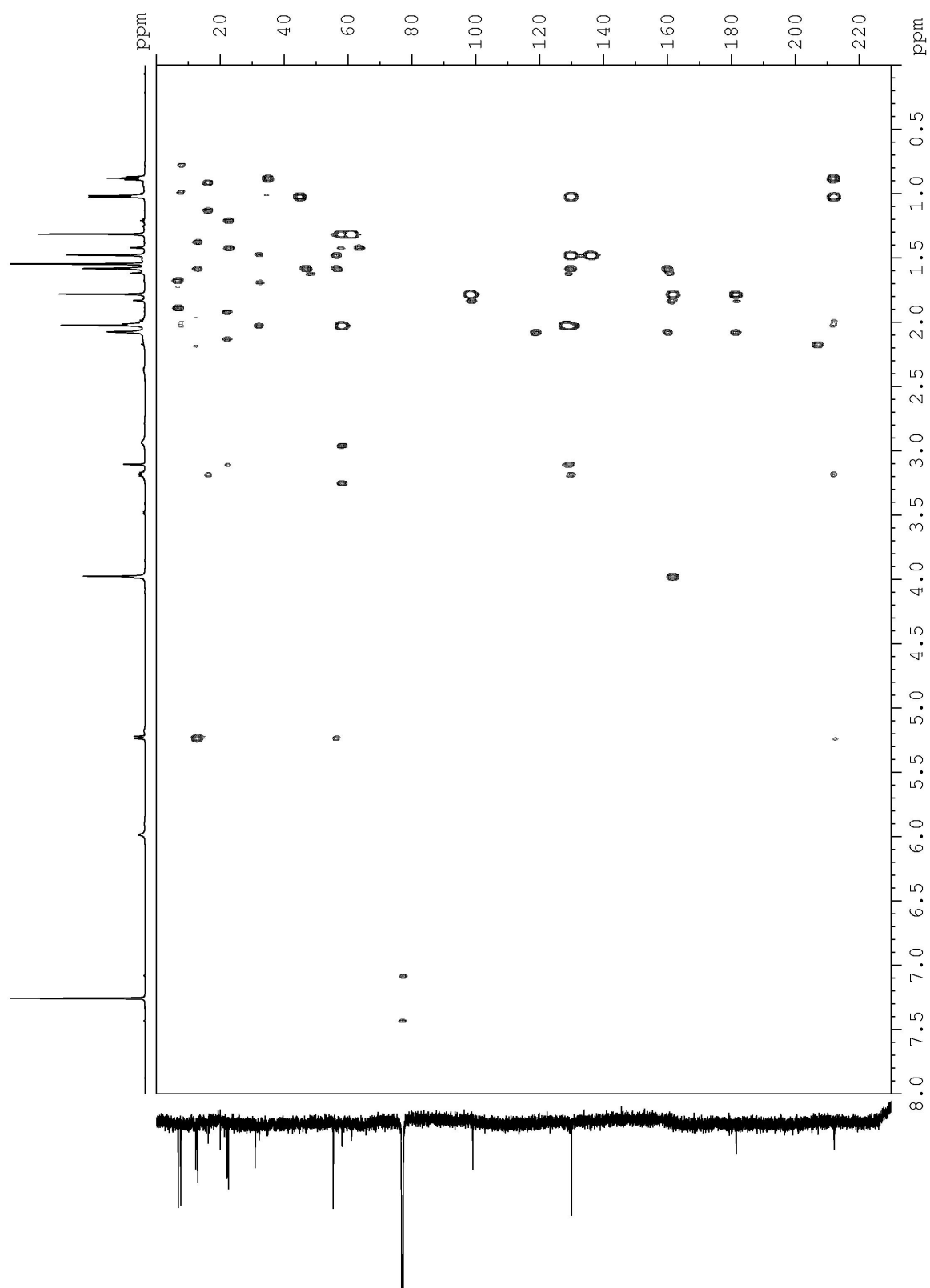


Figure S5. HMBC of **7** (600MHz, CDCl_3)

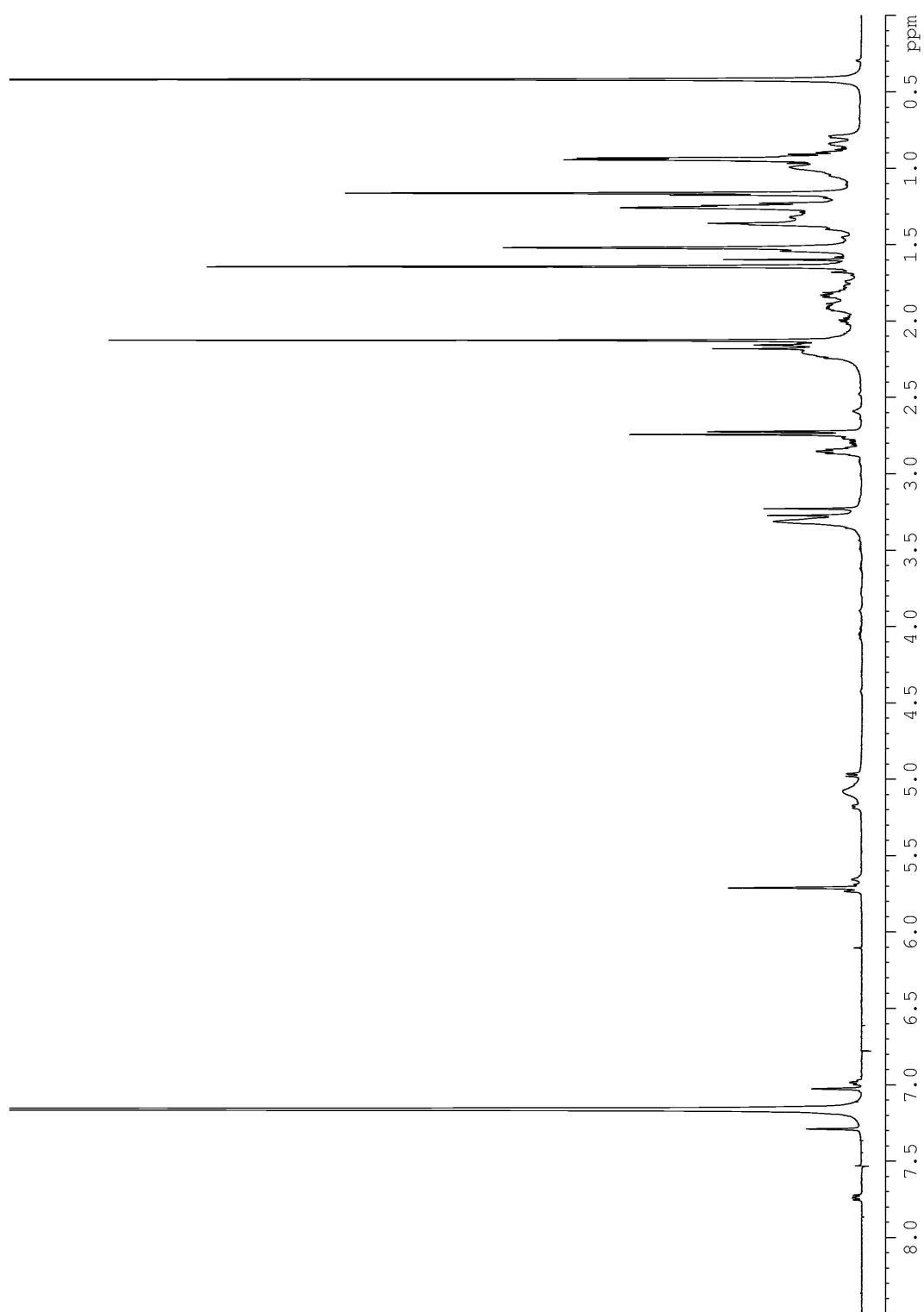


Figure S6. ^1H NMR of **7** (600 MHz, C_6D_6)

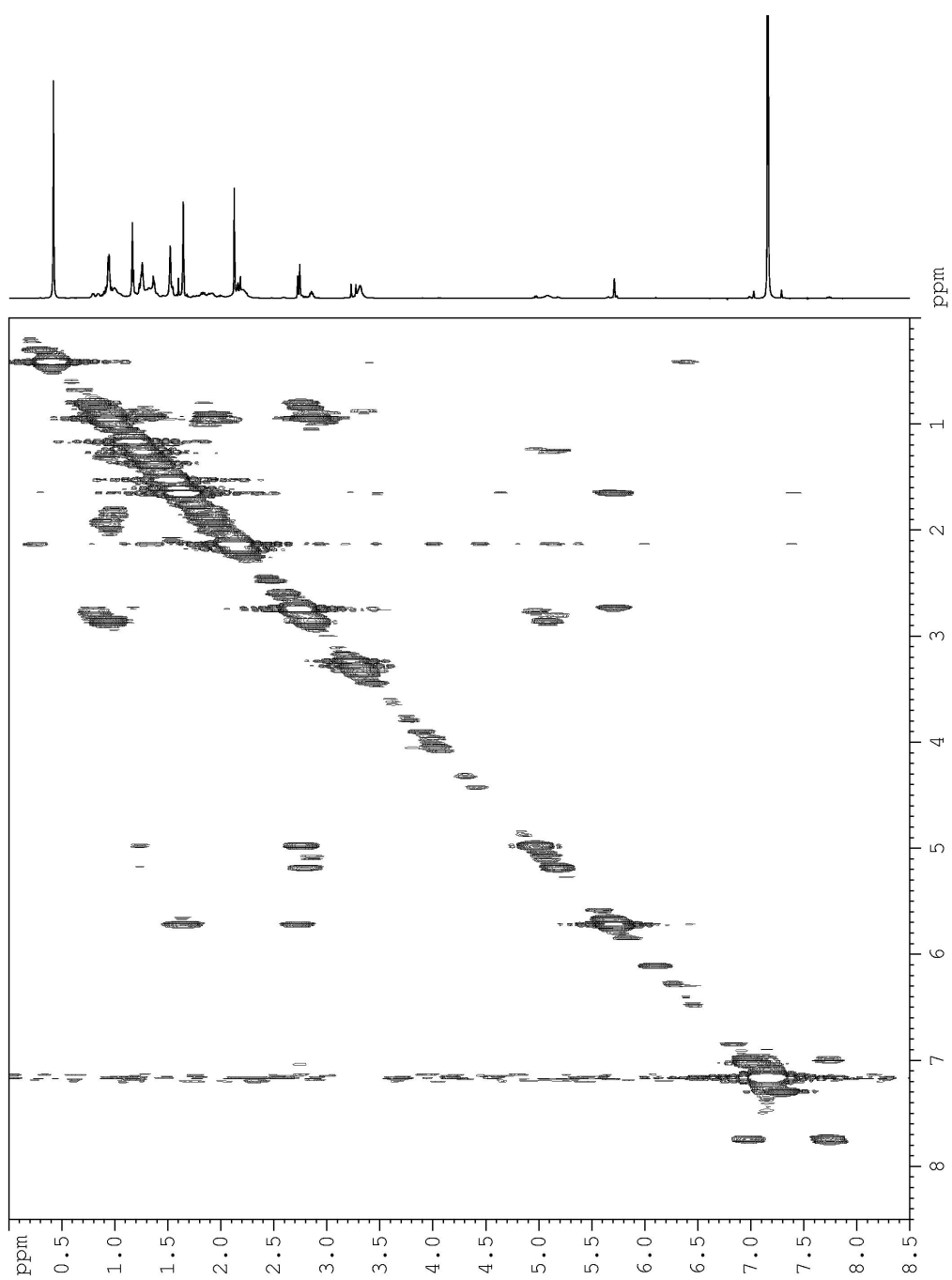


Figure S7. ^1H - ^1H COSY NMR of **7** (600 MHz, C_6D_6)

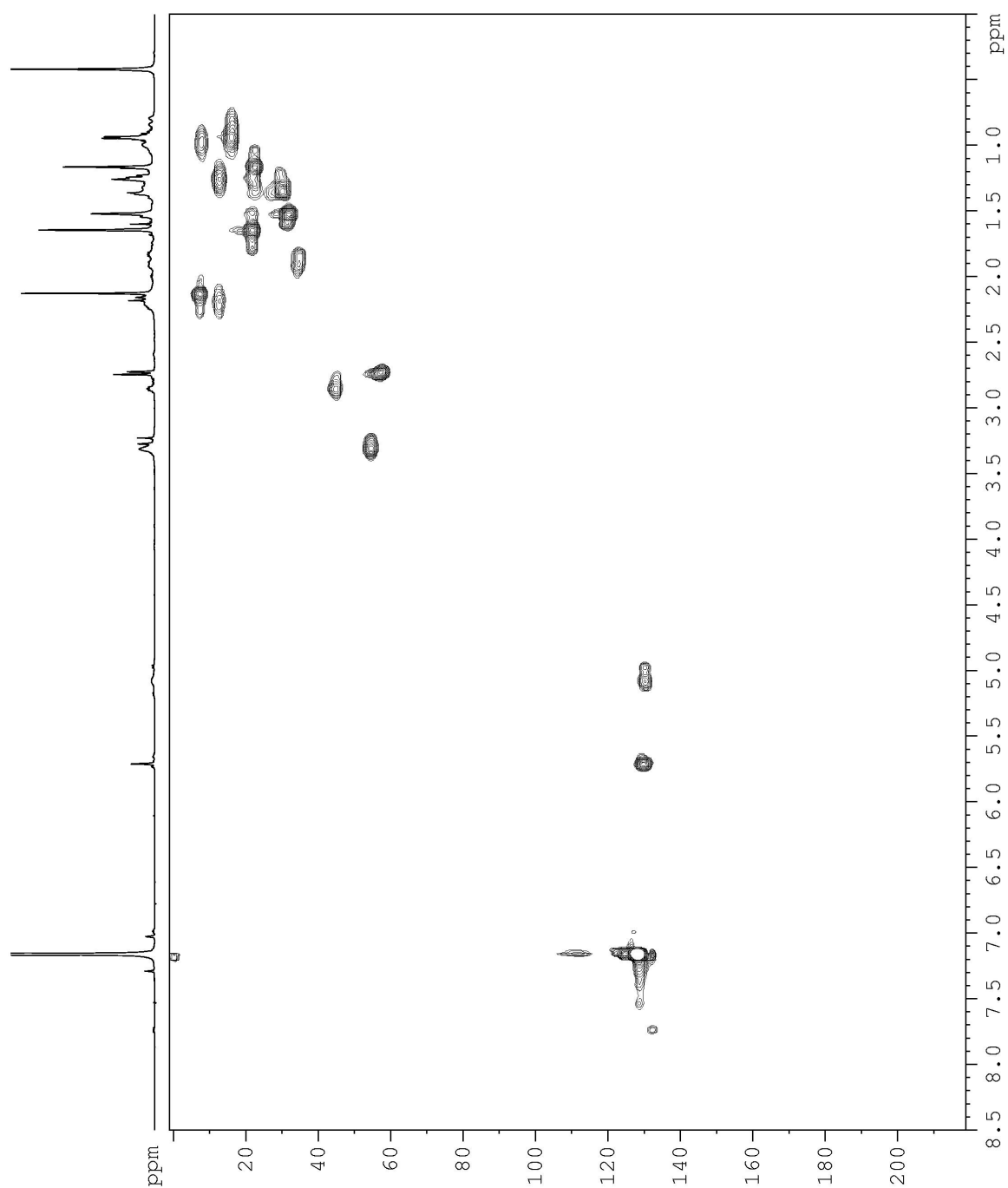


Figure S8. HSQC of **7** (600 MHz, C_6D_6)

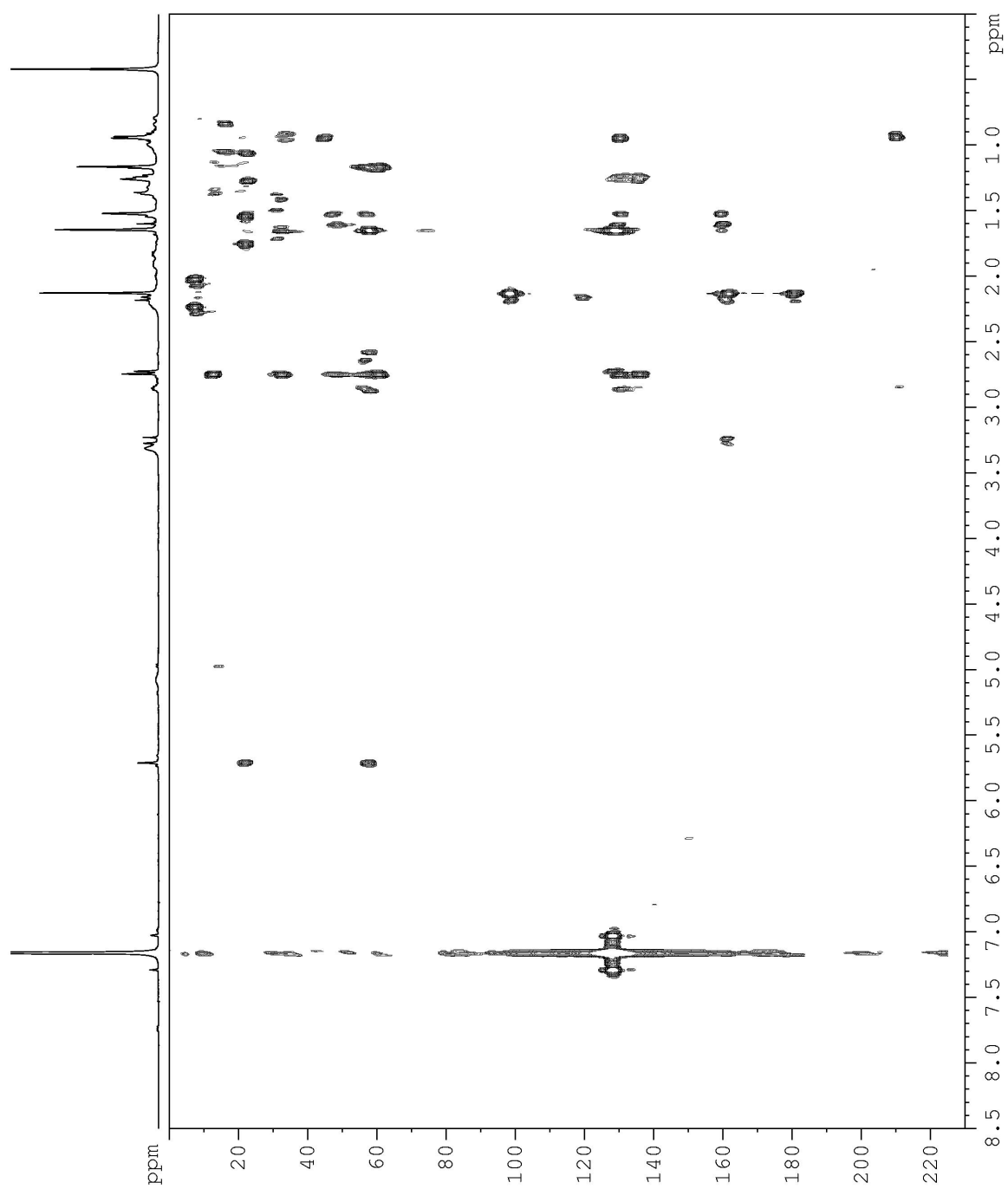


Figure S9. HMBC of **7** (600 MHz, C_6D_6)

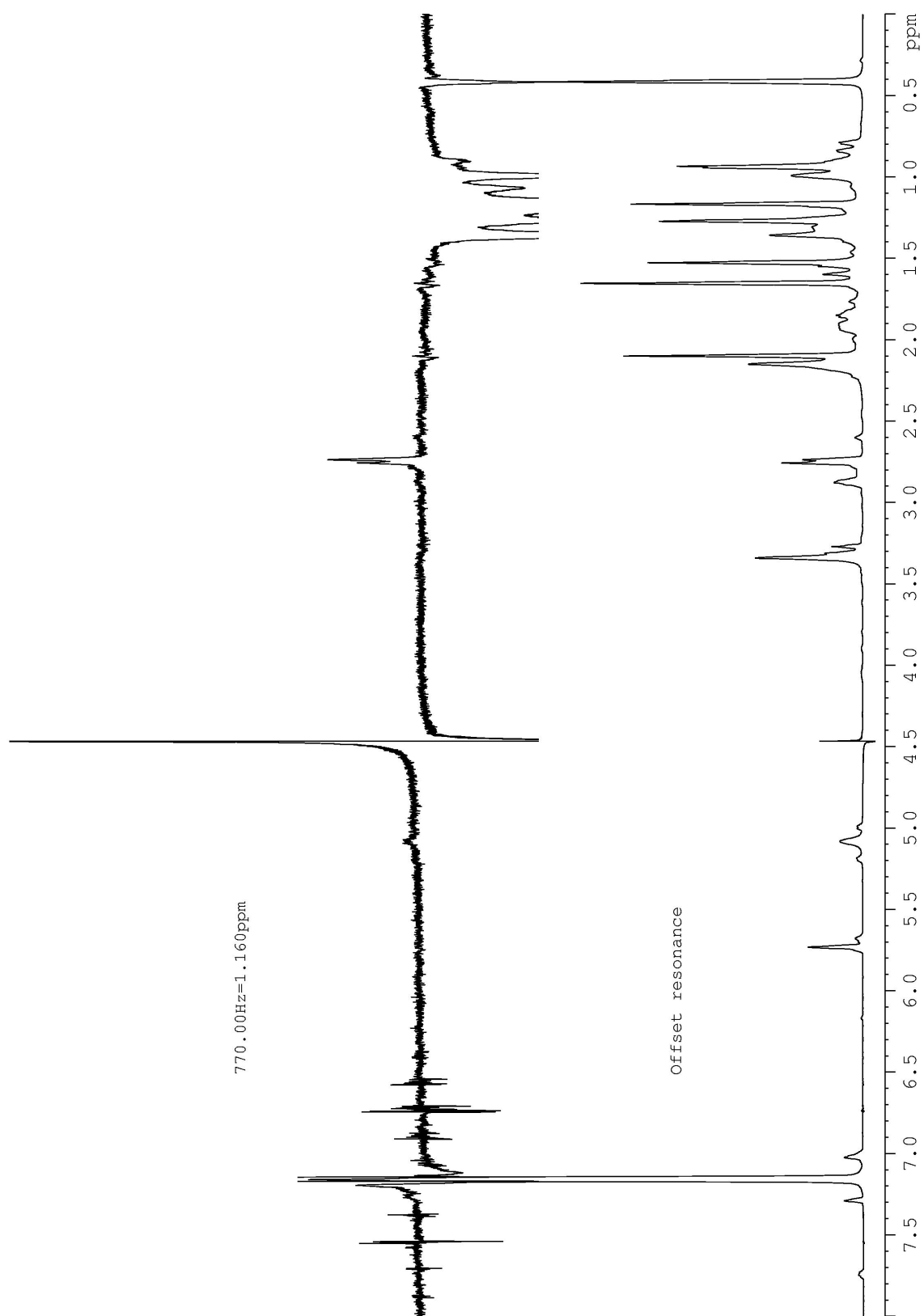


Figure S10. NOE difference spectra of **7** (600MHz, C_6D_6).

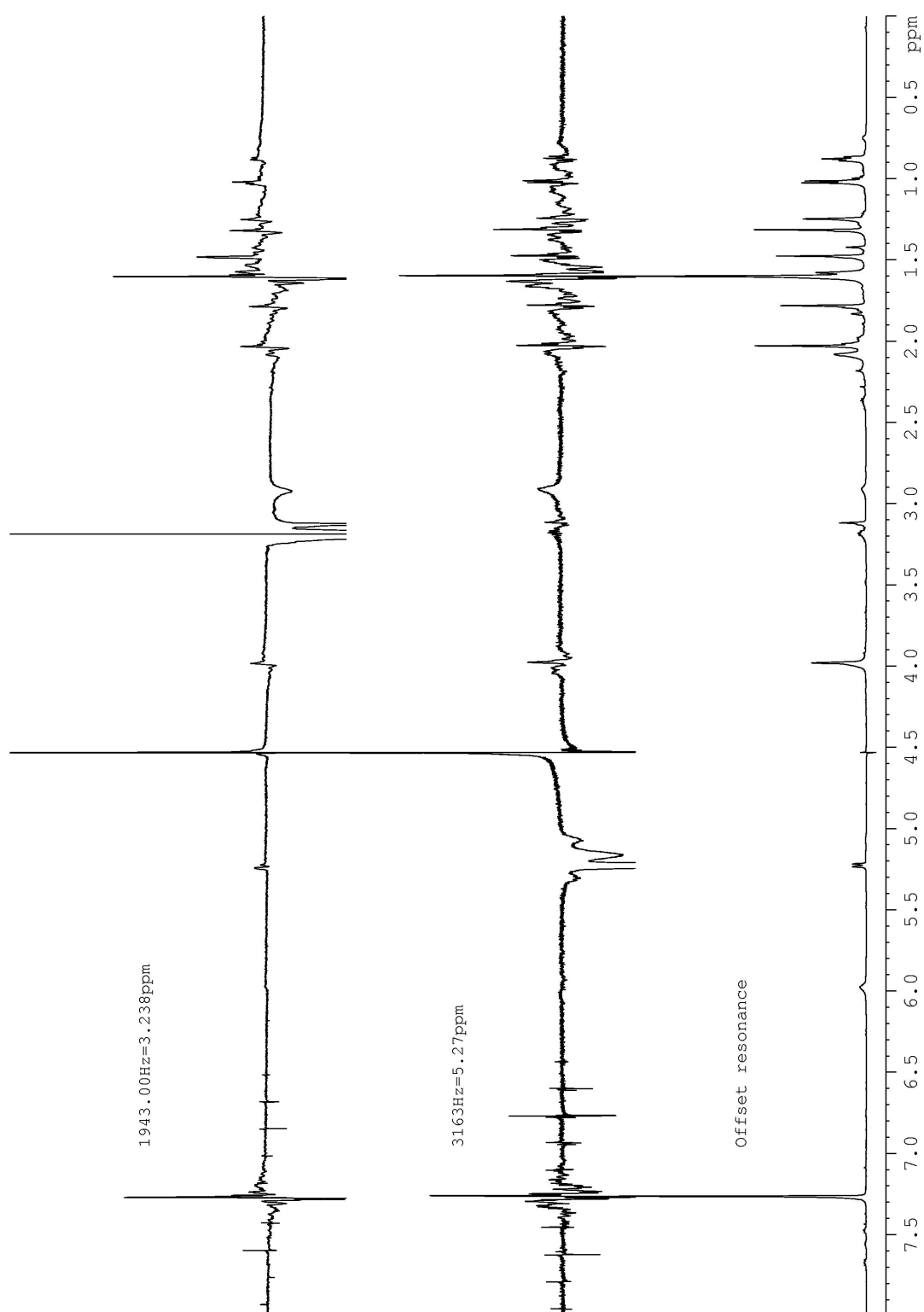


Figure S11. NOE difference of **7** (600MHz, CDCl₃,75dB)

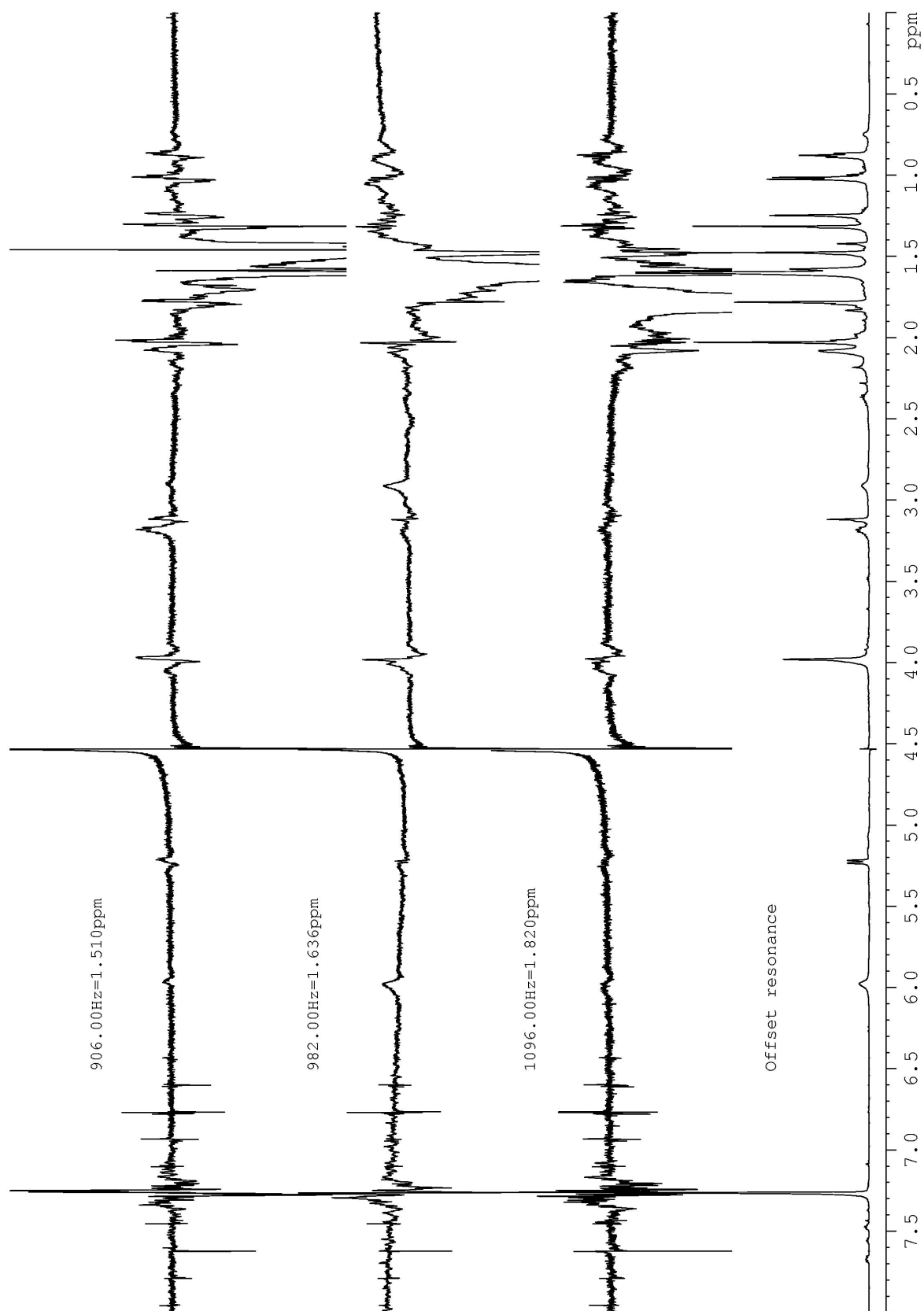


Figure S11. (cont.)

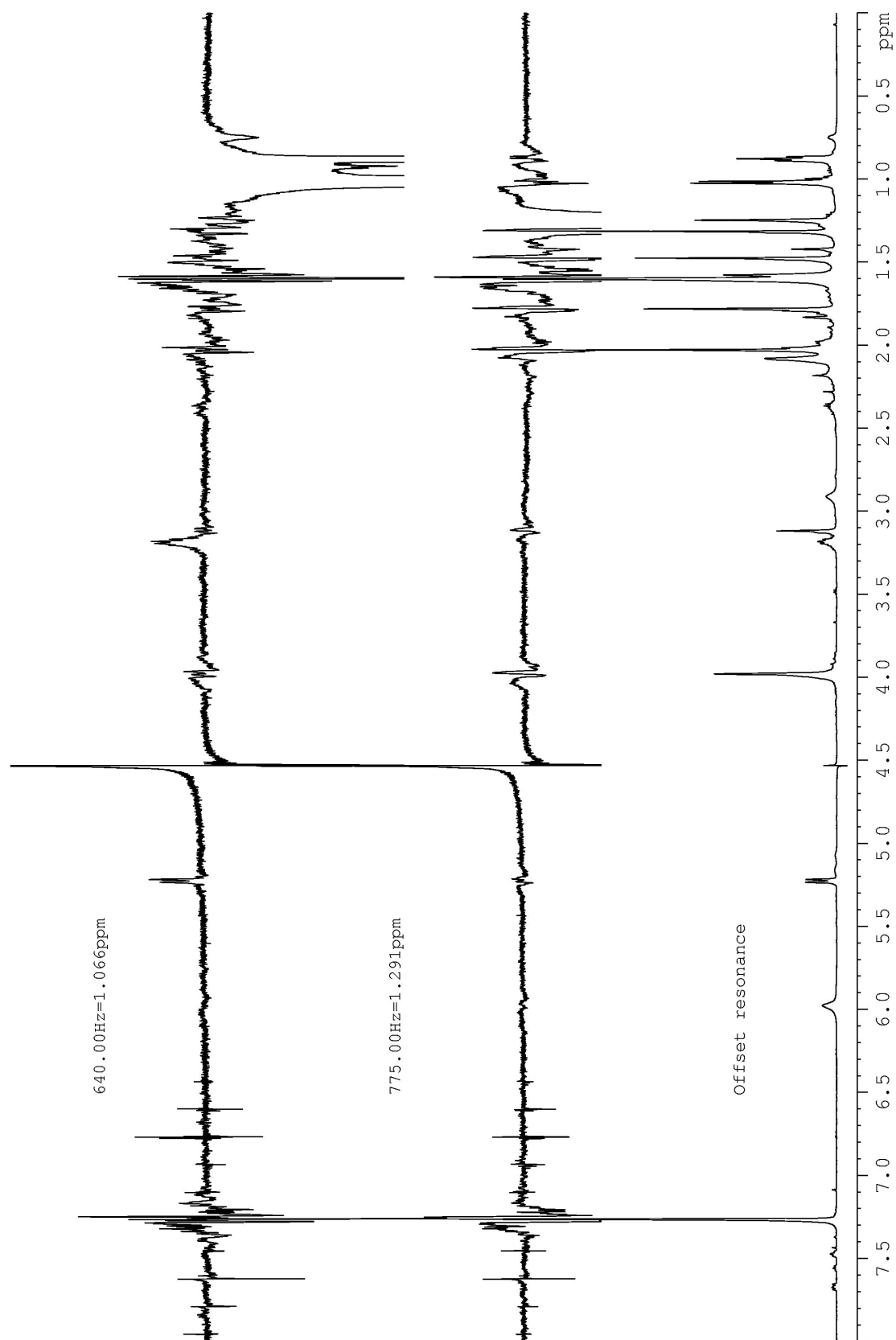


Figure S11. (cont.)

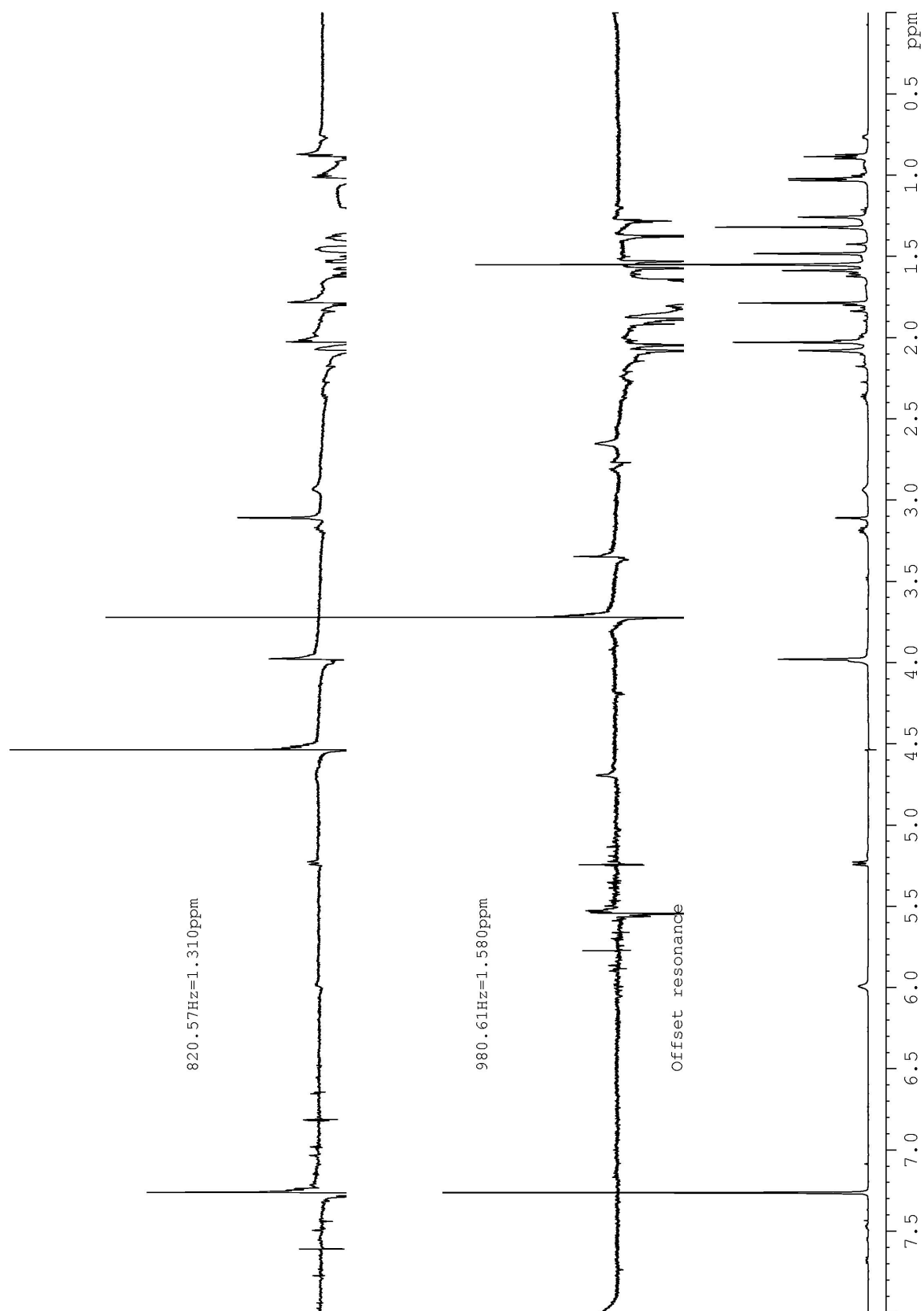


Figure S11. (cont.)

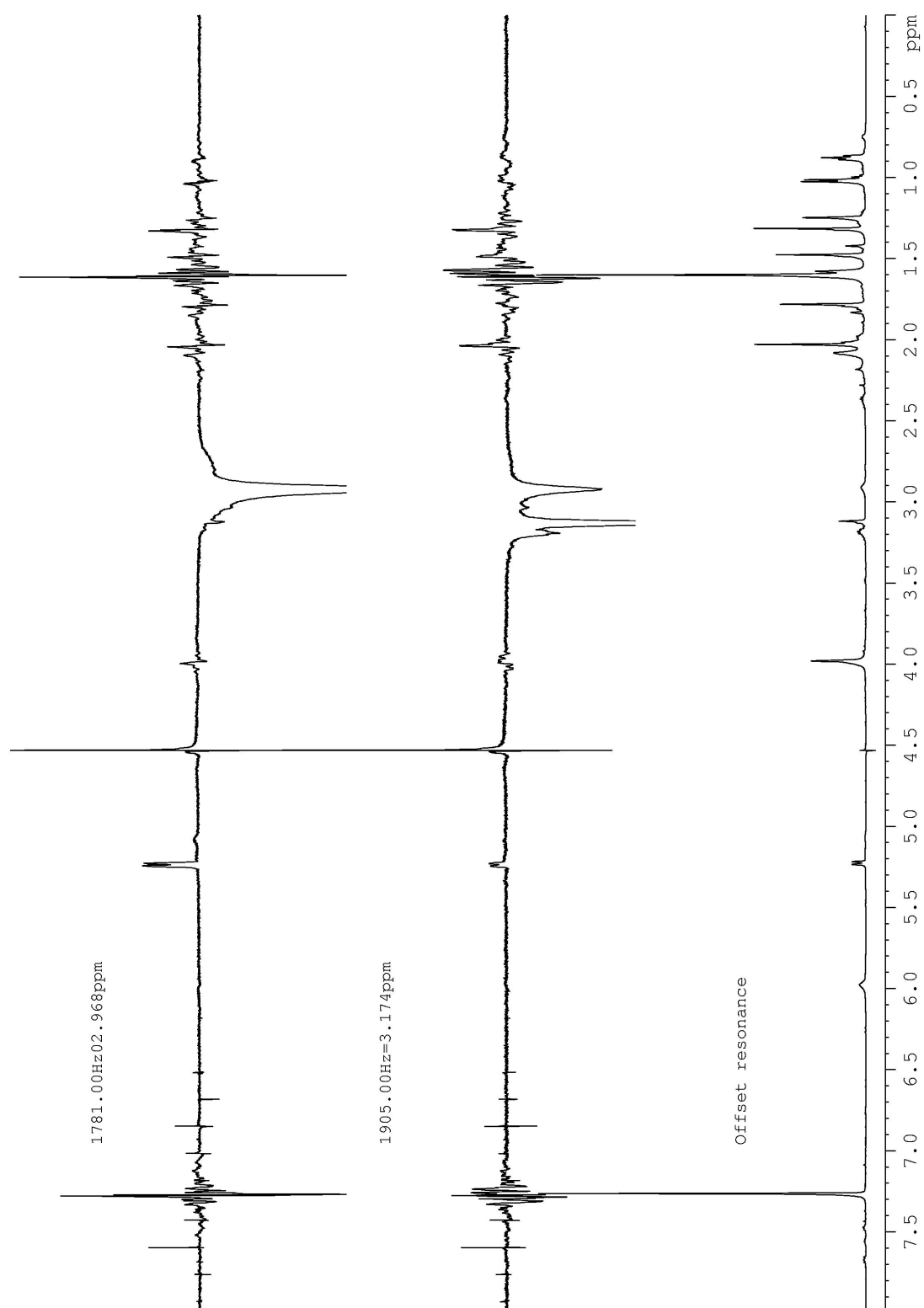


Figure S11. (cont.)

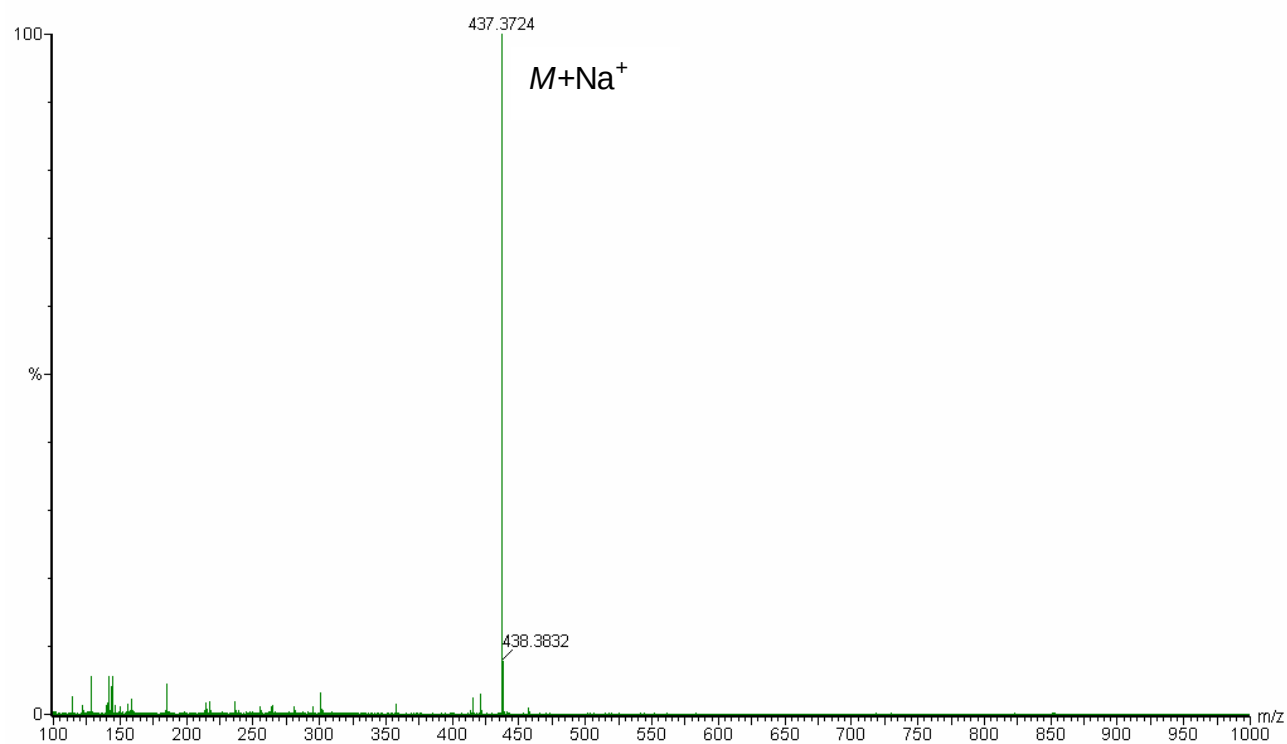


Figure S12. ESI⁺-MS of 7.