

SUPPORTING INFORMATION

Dolichocarpols A-F, Unprecedented Macrocyclic Humulene-Type Sesquiterpenoids from *Anaxagorea dolichocarpa*

Kaio Aragão Sales,[†] Anderson Angel Vieira Pinheiro,[†] Diego Igor Alves Fernandes de Araújo,[†]
Lucas Silva Abreu,[†] Rodrigo Silva de Andrade,[†] Maria de Fátima Agra,[‡] Marianna Vieira Sobral,[†]
Rafael Carlos Ferreira,[†] Raimundo Braz-Filho,[§] Marcus Tullius Scotti,[†] Josean Fechine Tavares,^{†*}
and Marcelo Sobral da Silva.[†]

[†]Postgraduate Program in Natural and Synthetic Bioactive Products, Federal University of Paraíba,
João Pessoa, Brazil

[‡]Biotechnology Department, Federal University of Paraíba, João Pessoa, Brazil

[§]Department of Chemistry, Institute of Chemistry, Federal Rural University of Rio de Janeiro,
Seropédica, Brazil

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Figure S1. IR spectrum of compound **1**

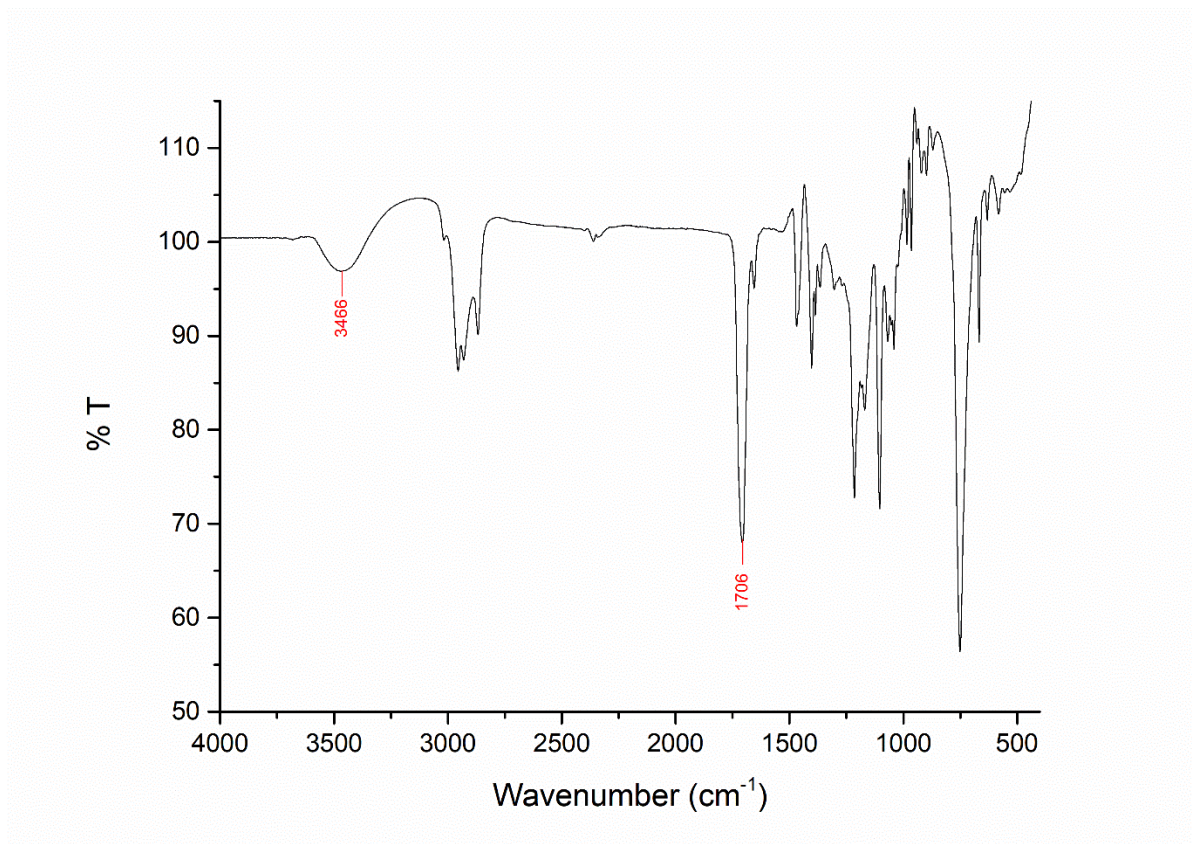


Figure S2. HRESIMS spectrum of compound **1** ([M + Na], positive ion mode)

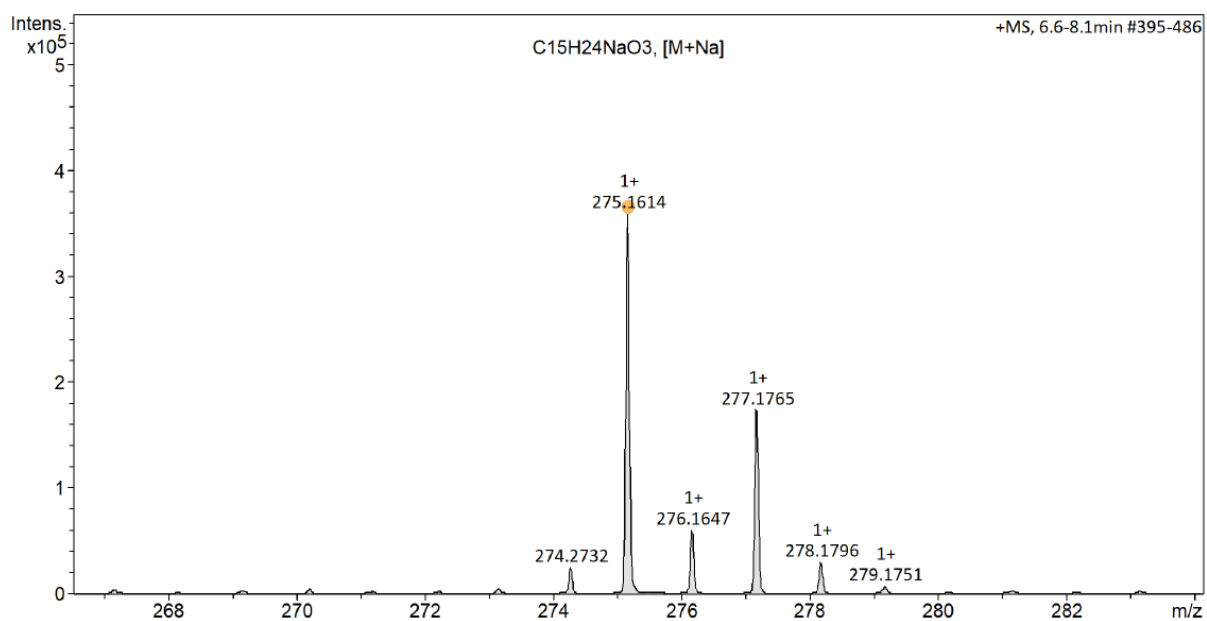


Figure S3. ¹H NMR (400 MHz, CDCl₃) spectrum of **1**

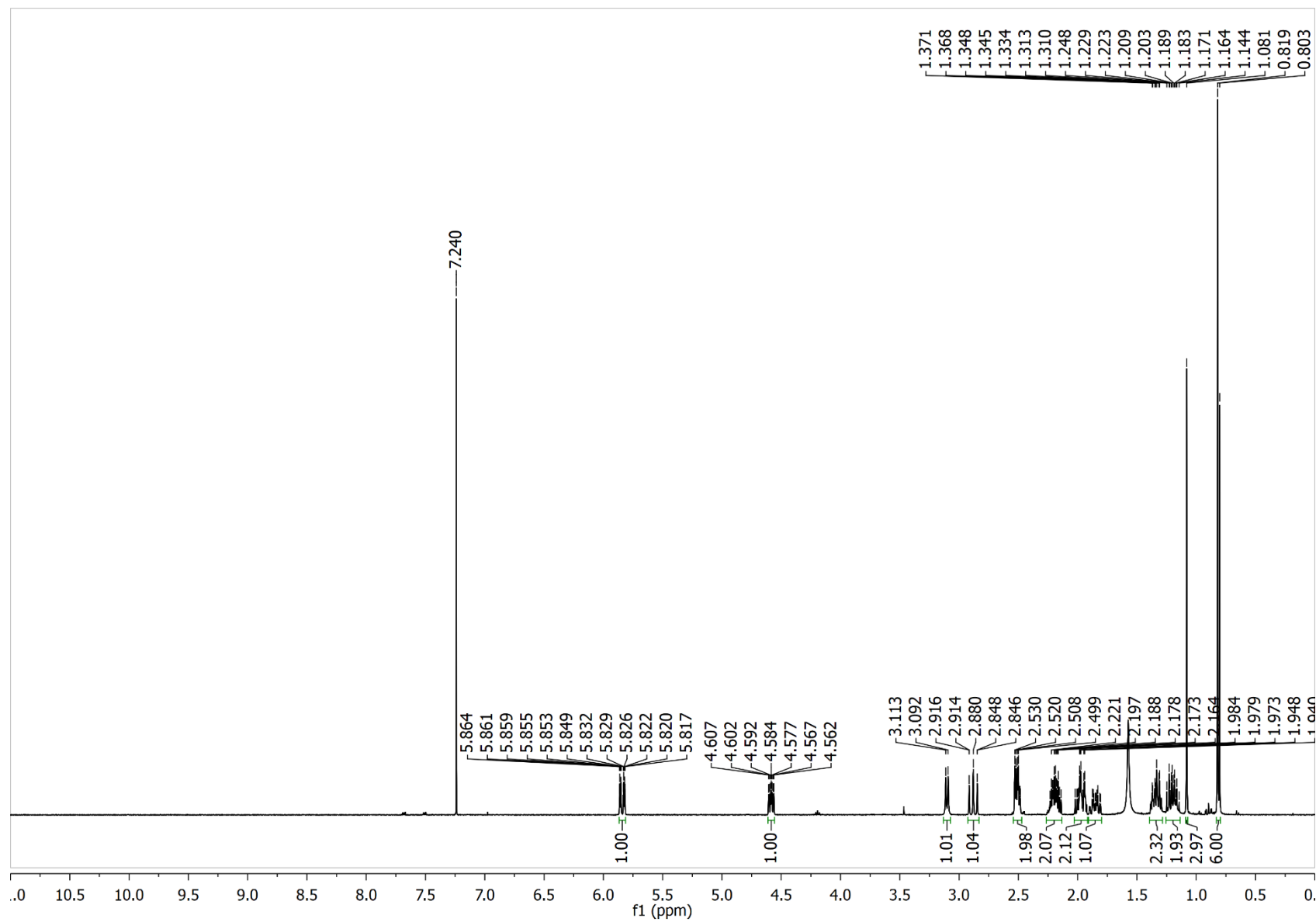


Figure S4. ^1H NMR (400 MHz, CDCl_3) extension spectrum of **1**

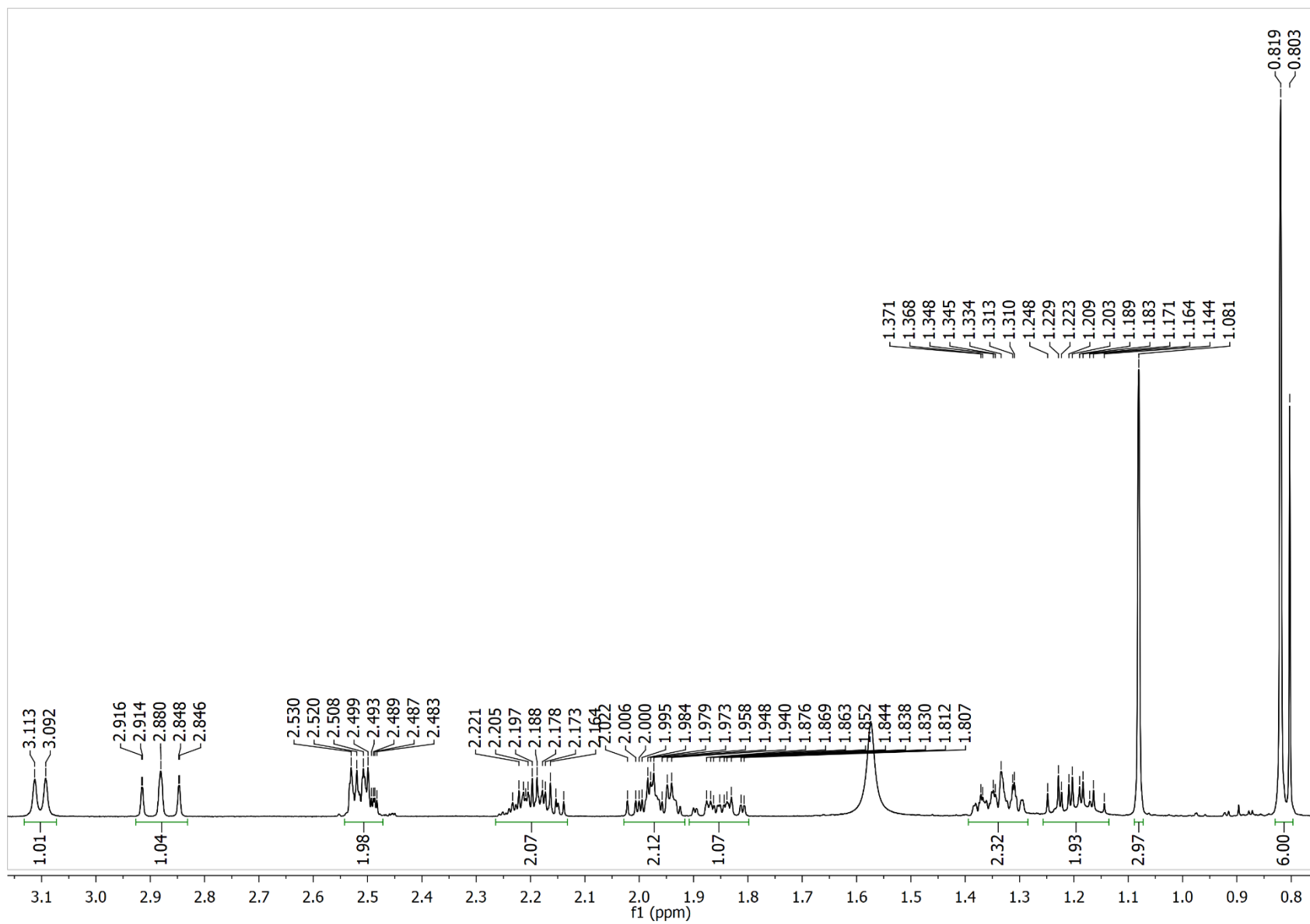


Figure S5. ^{13}C NMR (100 MHz, CDCl_3) spectrum of **1**

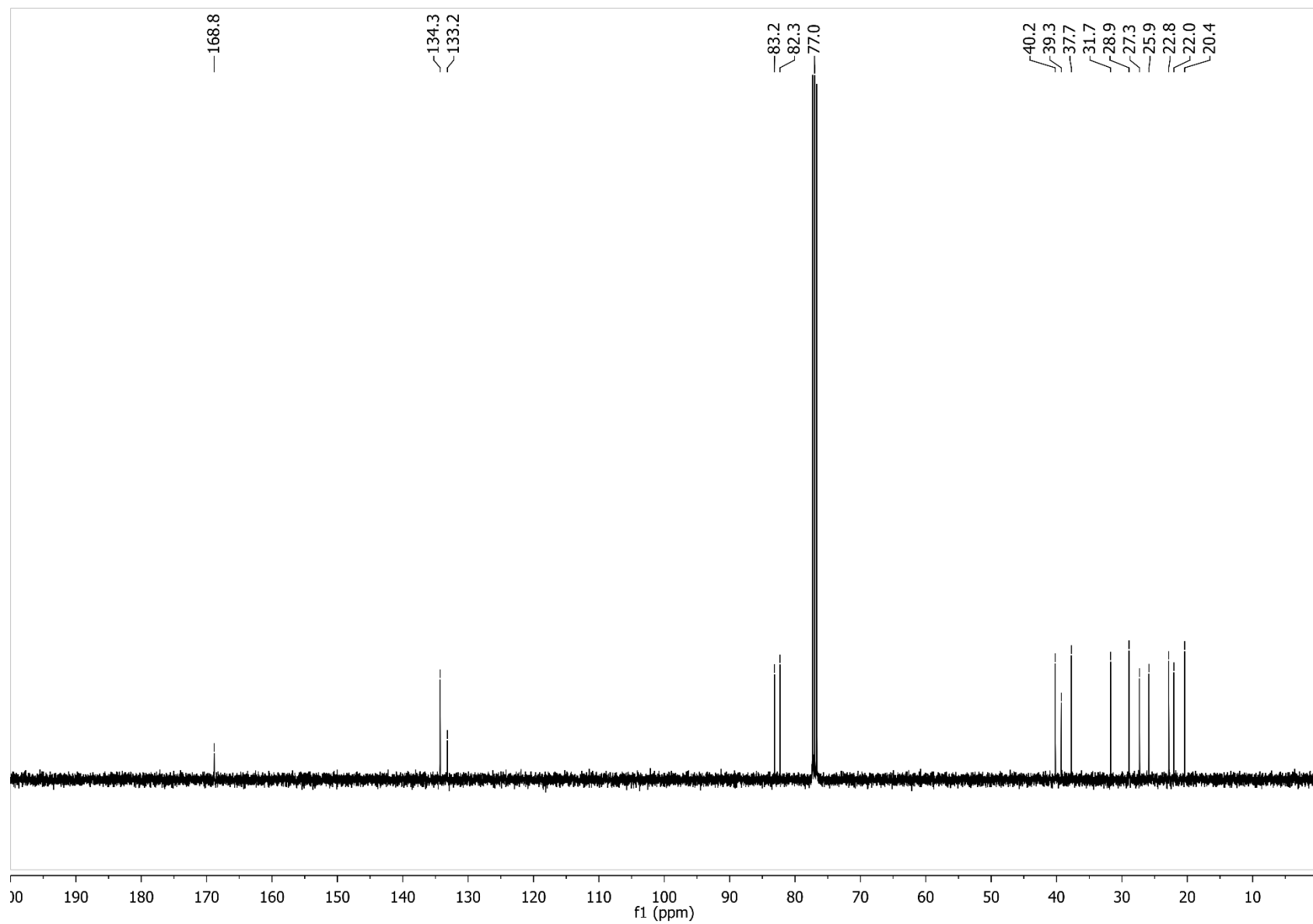


Figure S6. ^{13}C DEPT-135 NMR (100 MHz, CDCl_3) spectrum of **1**

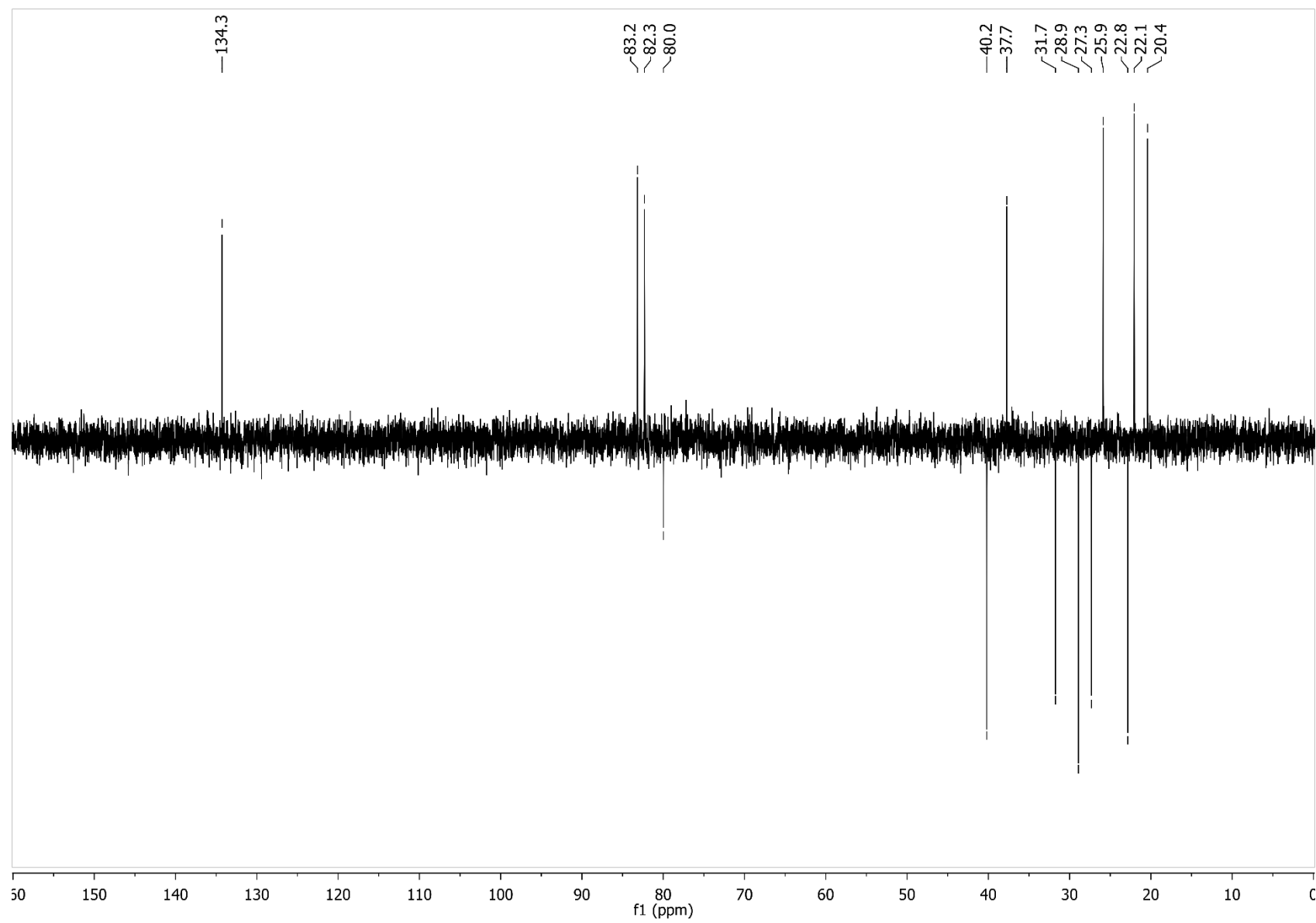


Figure S7. HSQC NMR (400 MHz, CDCl₃) spectrum of **1**

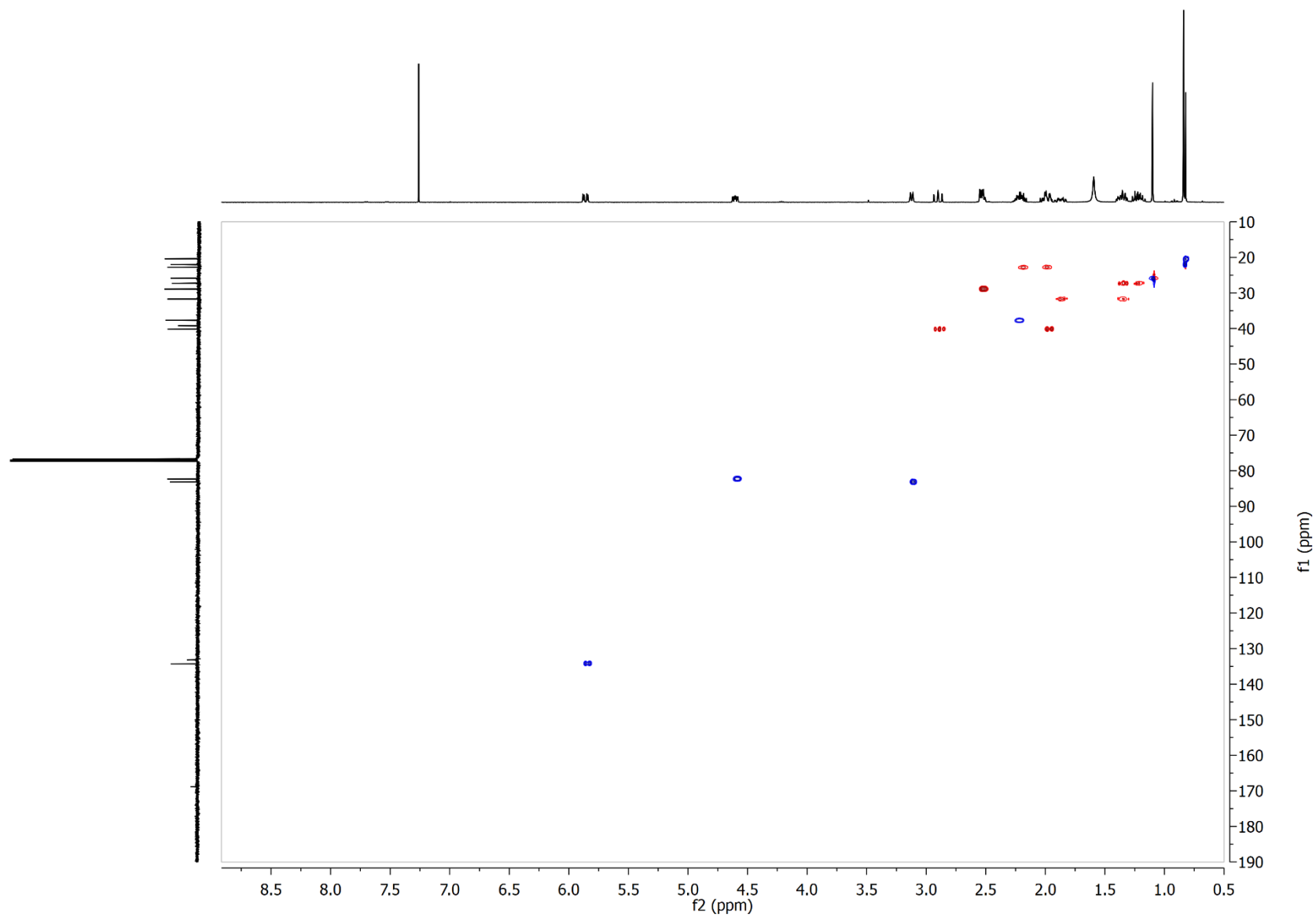


Figure S8. HSQC NMR (400 MHz, CDCl₃) extension spectrum of **1**

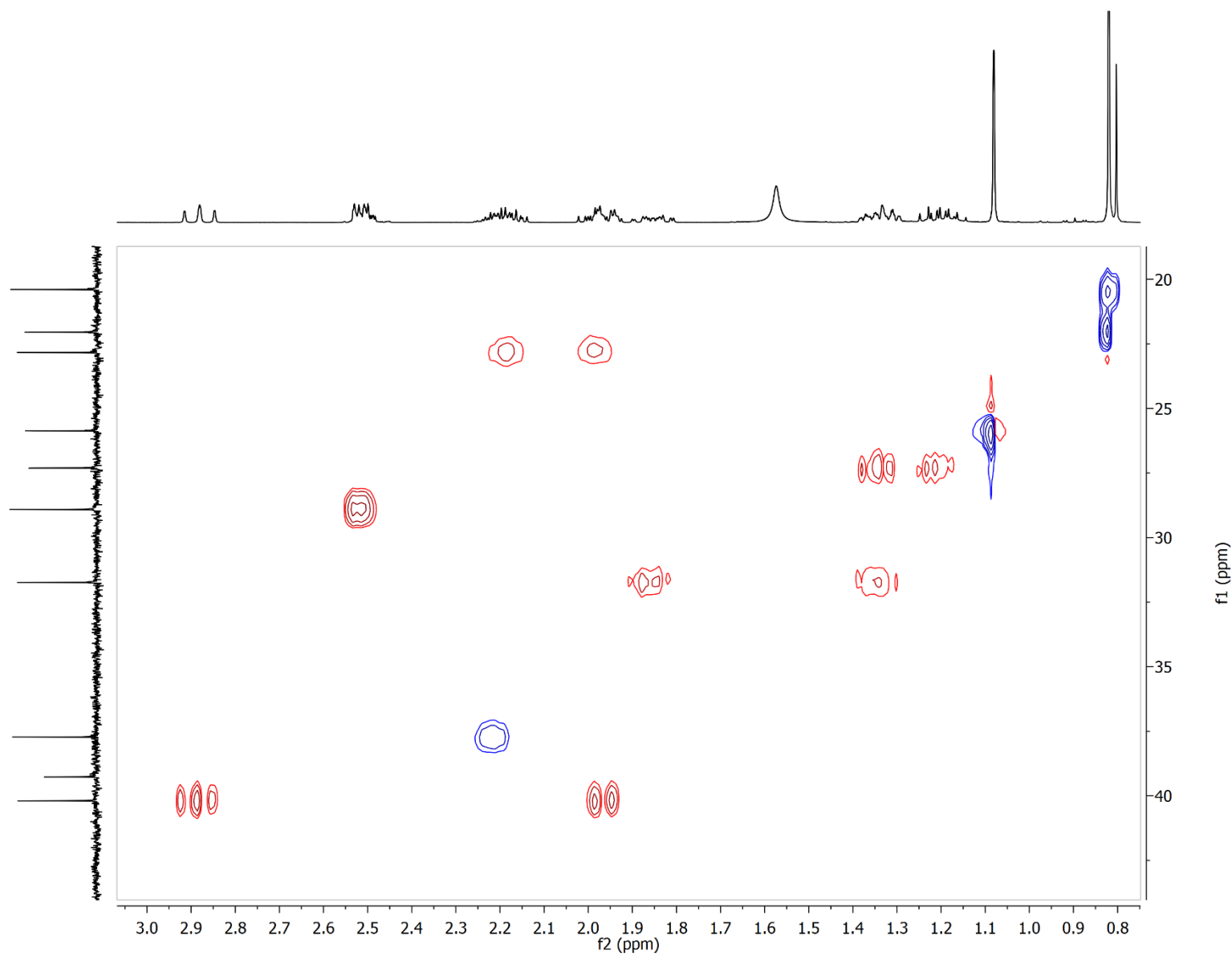


Figure S9. HMBC NMR (400 MHz, CDCl₃) spectrum of **1**

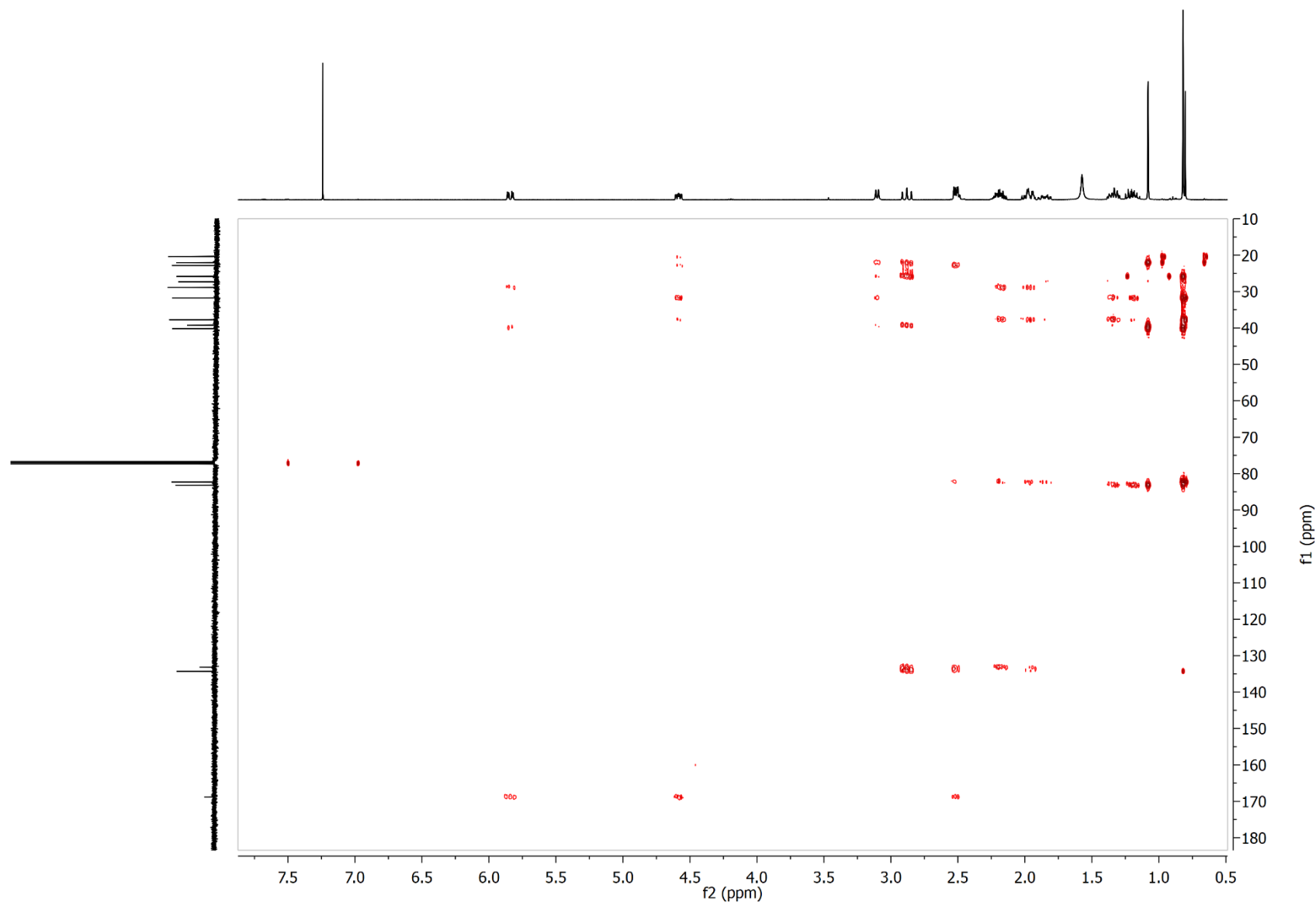


Figure S10. HMBC NMR (400 MHz, CDCl₃) extension spectrum of **1**

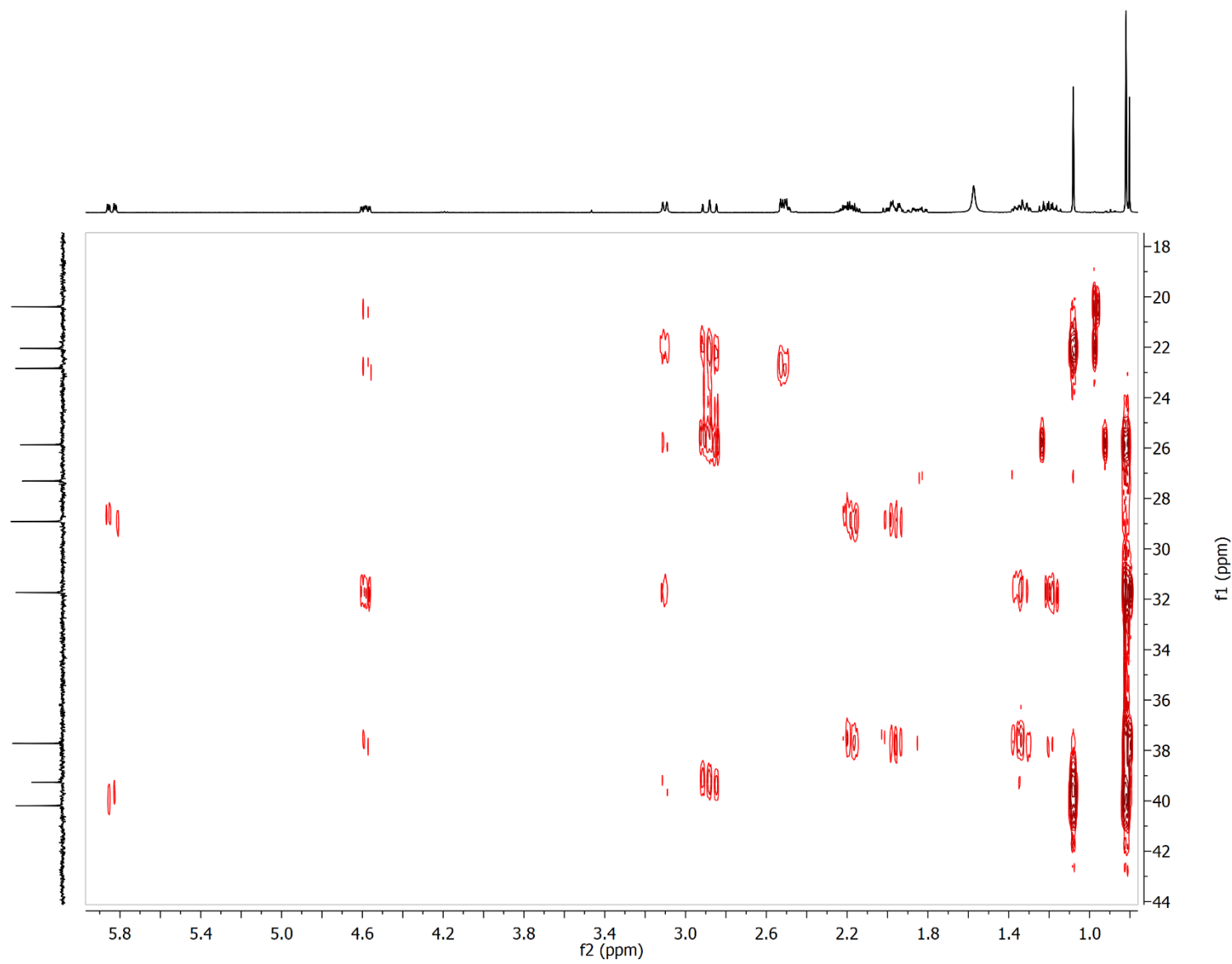


Figure S11. HMBC NMR (400 MHz, CDCl₃) extension spectrum of **1**

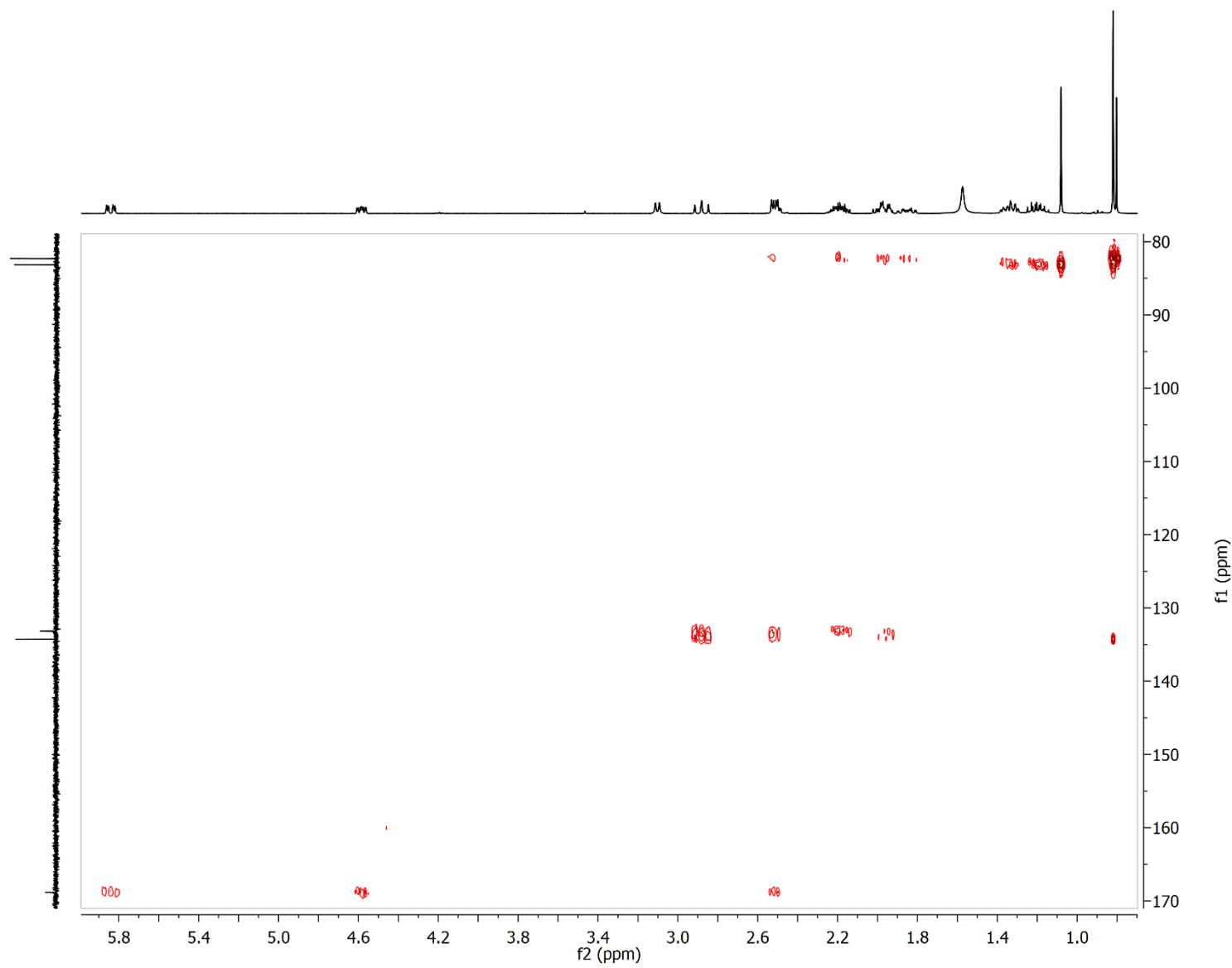


Figure S12. ^1H - ^1H COSY NMR (400 MHz, CDCl_3) spectrum of **1**

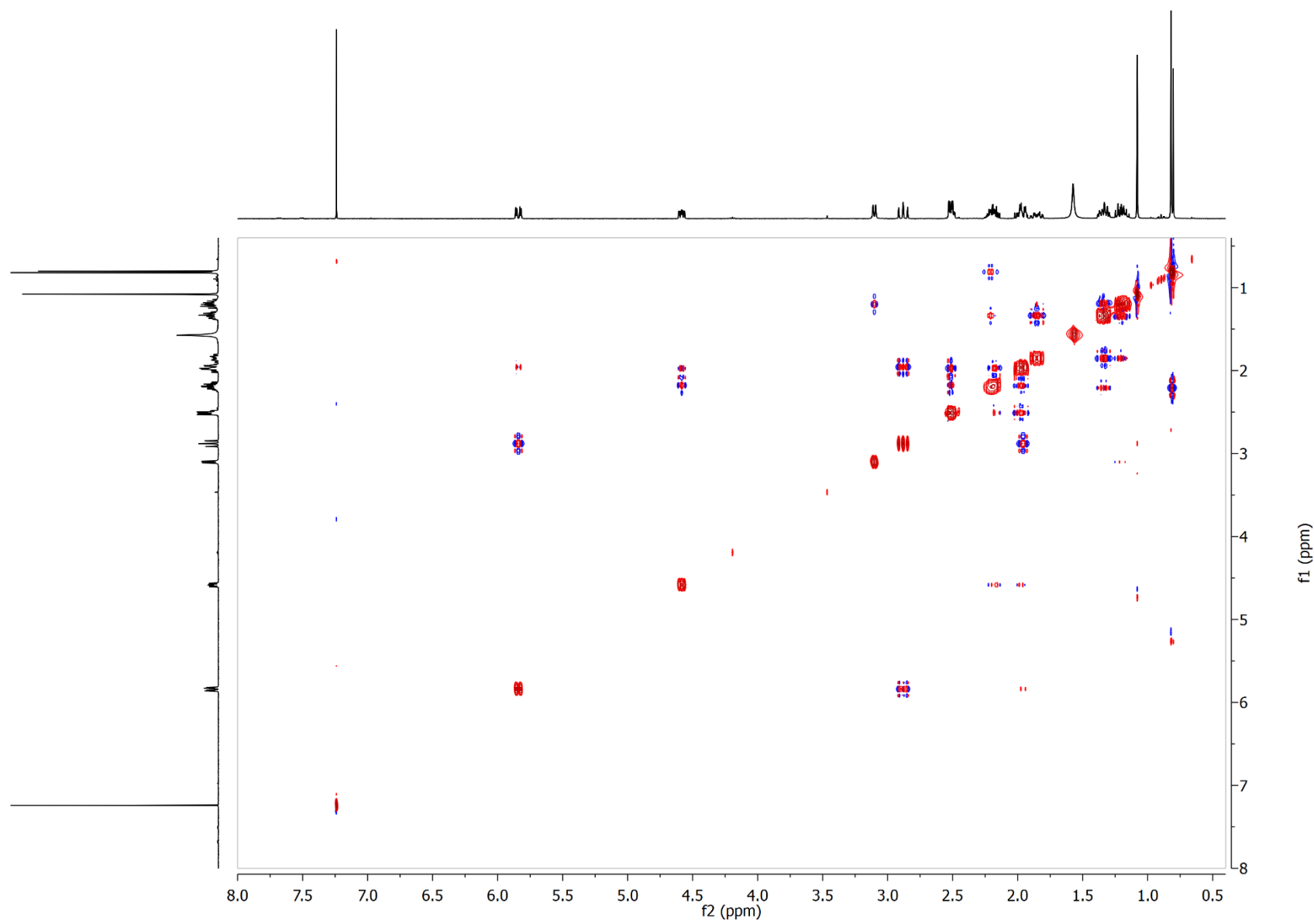


Figure S13. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) spectrum of **1**

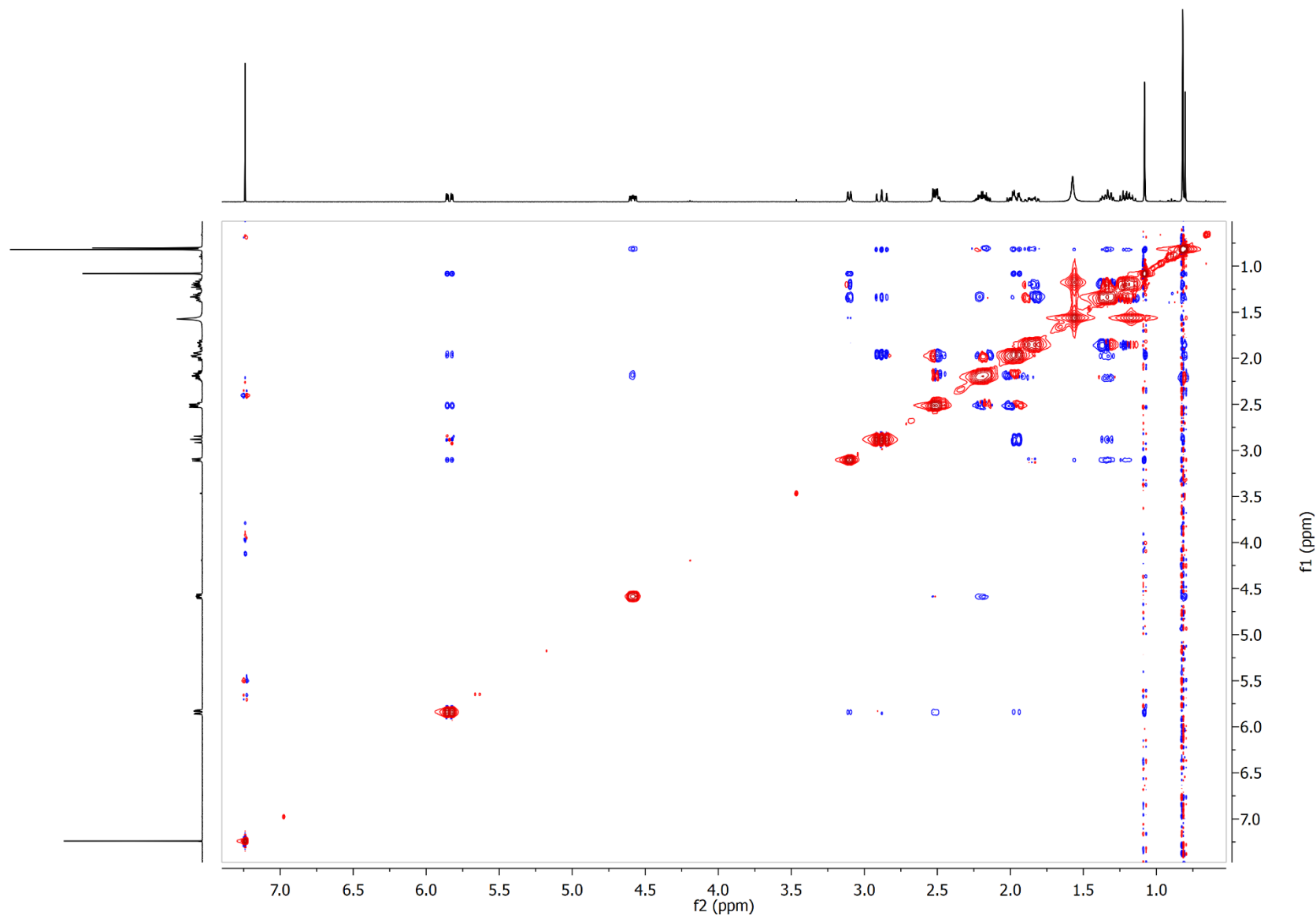


Figure S14. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) extension spectrum of **1**

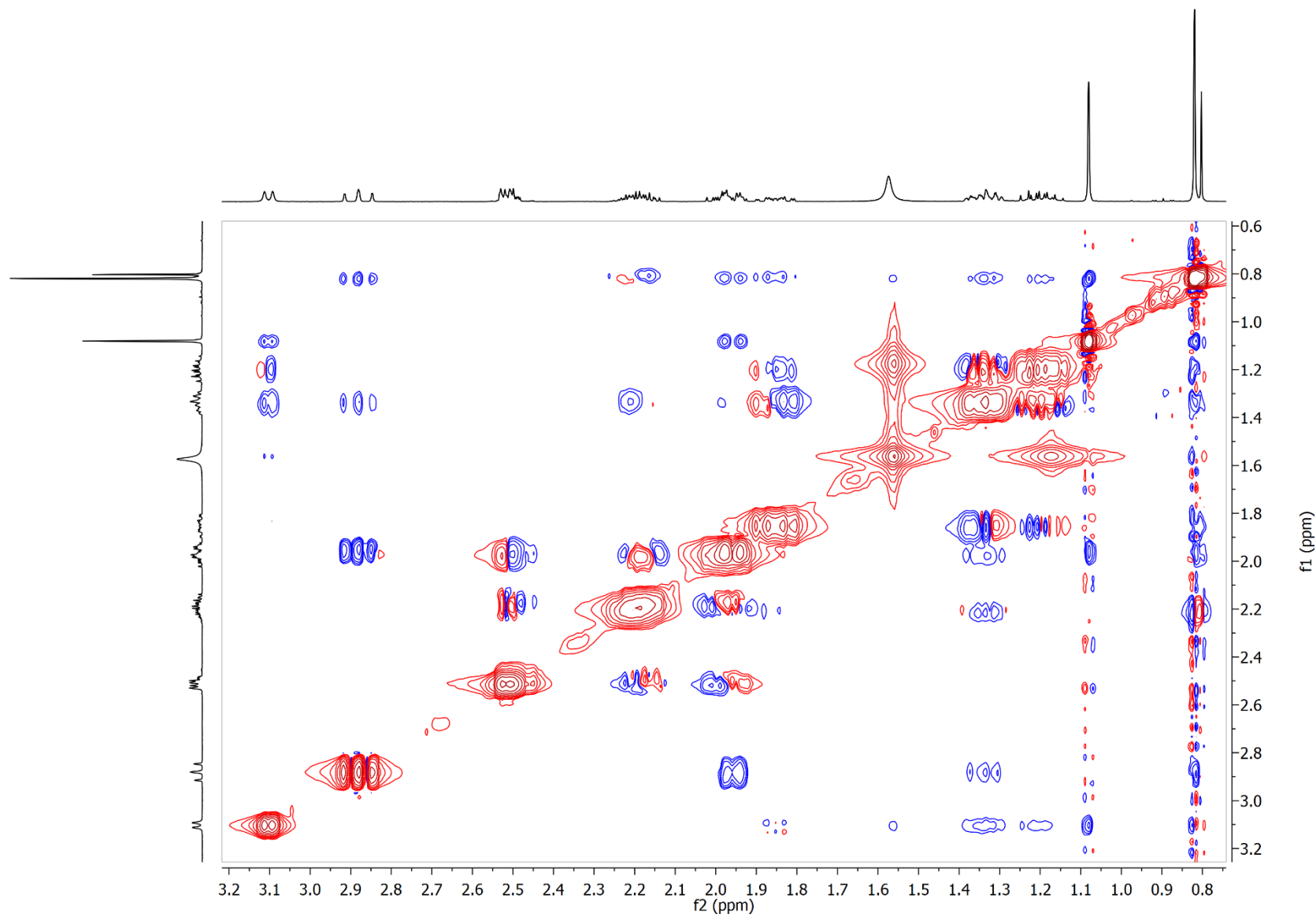


Figure S15. ESIMS/MS spectrum of compound **1** ($[M + Na]$, positive ion mode)

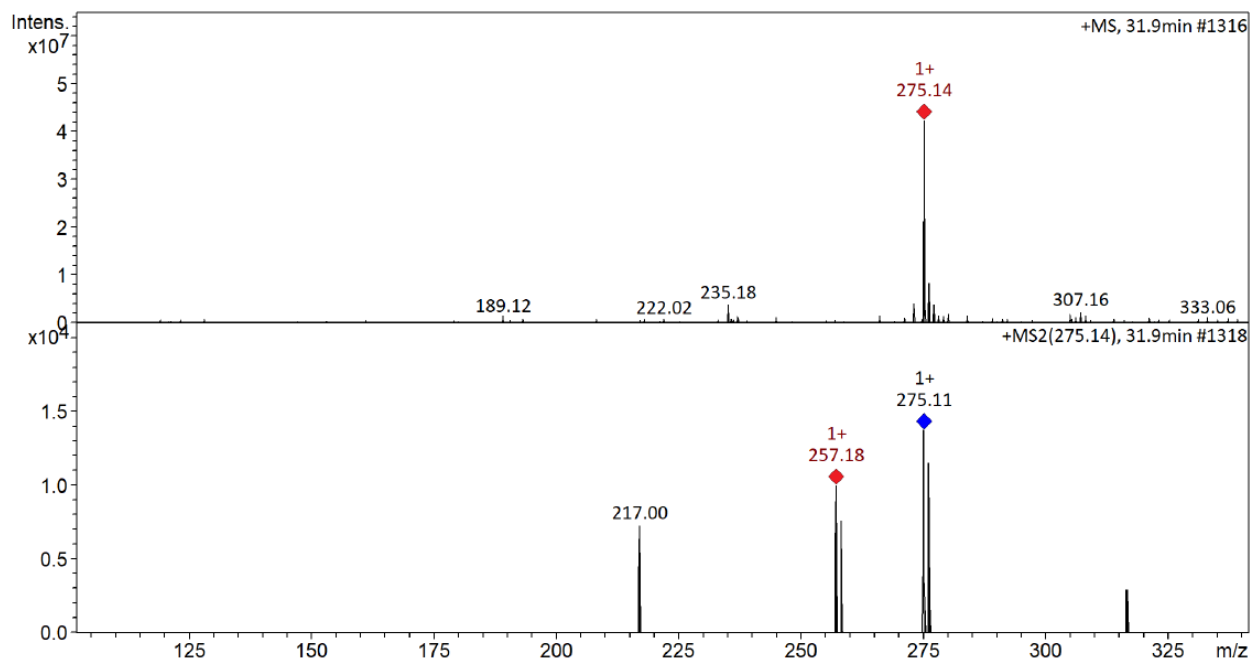


Figure S16. Experimental and calculated ECD spectra and absorption spectra of compounds **1-3** and **6**

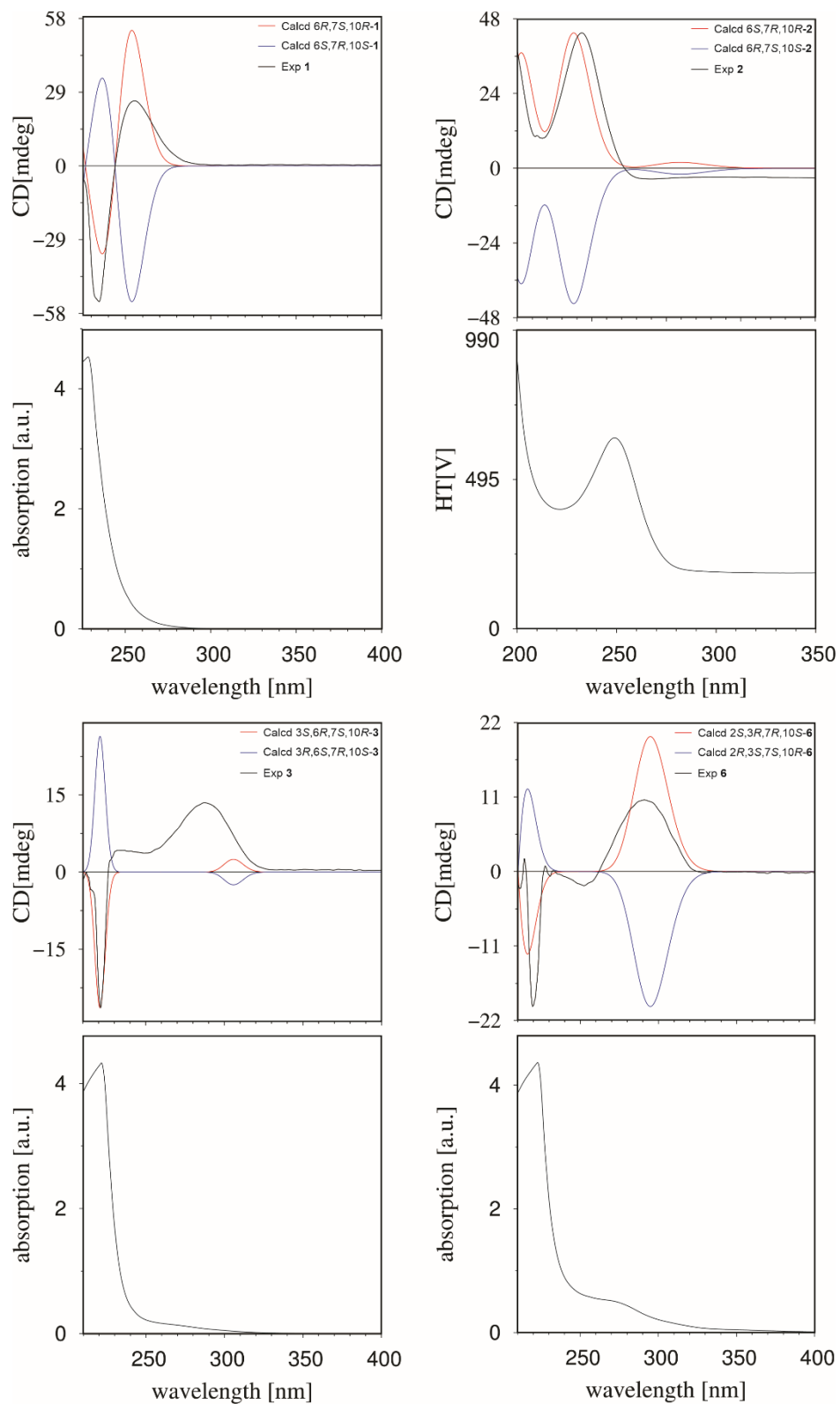


Figure S17. IR spectrum of compound **2**

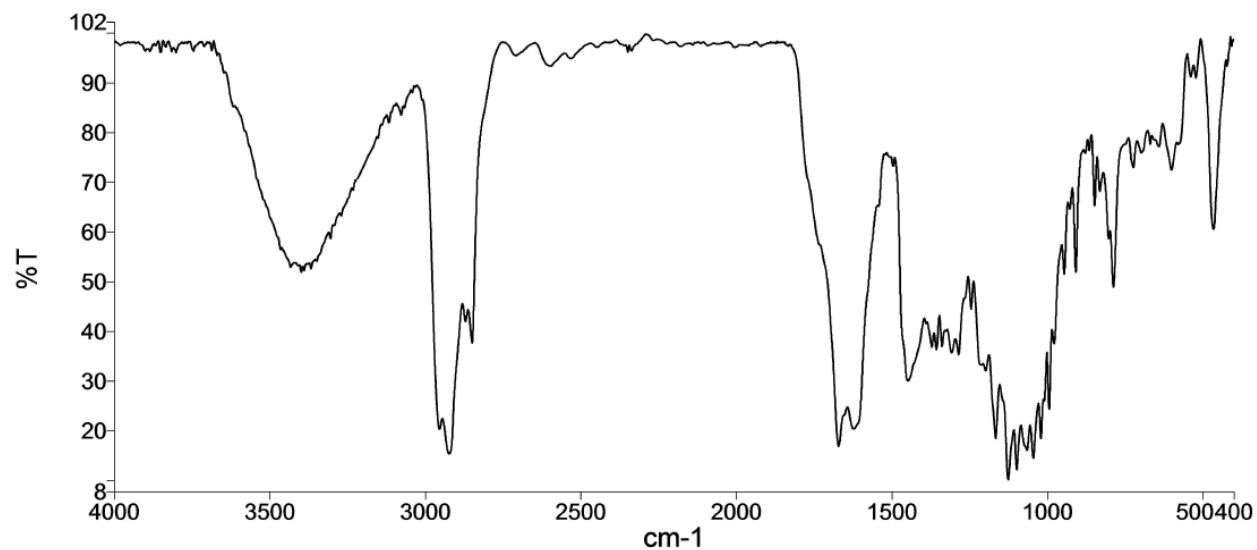


Figure S18. HRESIMS spectrum of compound **2** ([M + Na], positive ion mode)

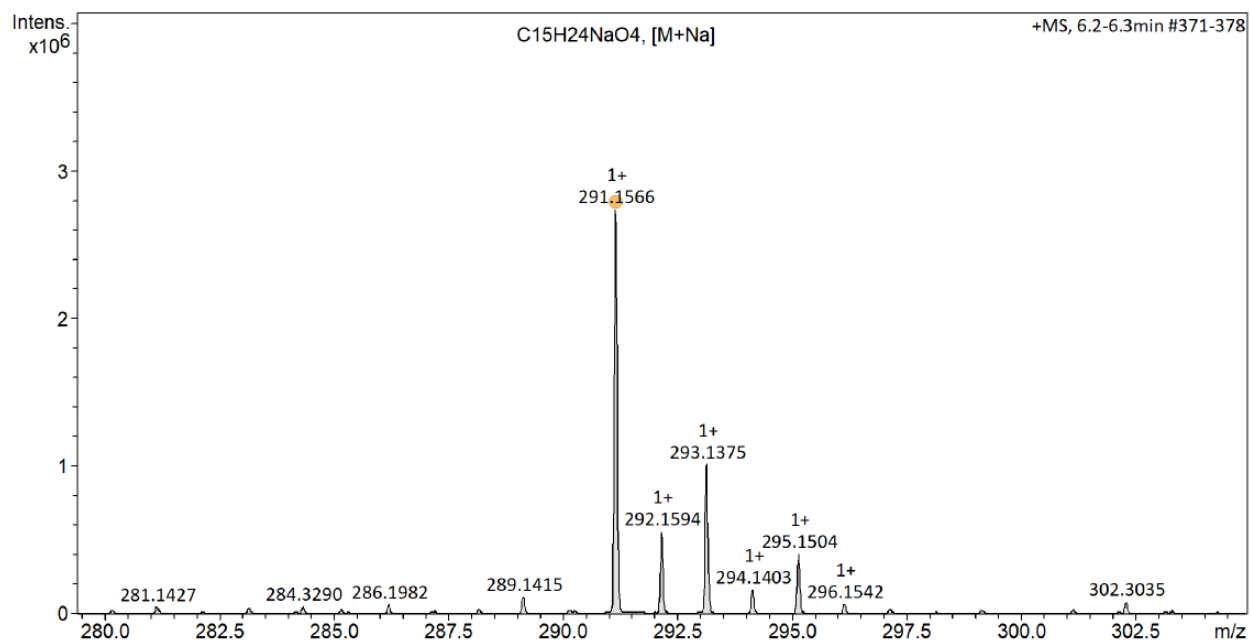


Figure S19. ^1H NMR (500 MHz, CDCl_3) spectrum of **2**

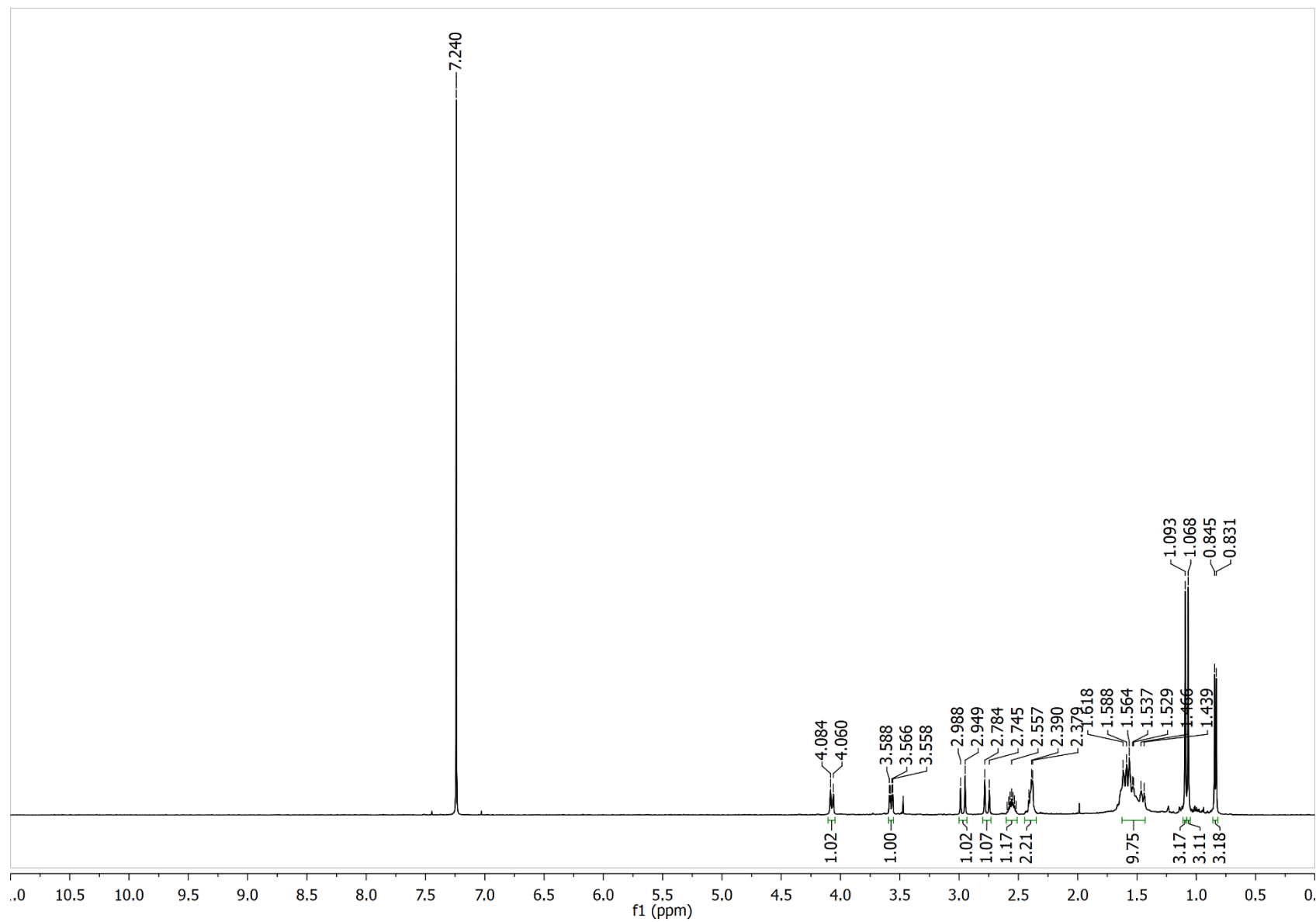


Figure S20. ^1H NMR (500 MHz, CDCl_3) extension spectrum of **2**

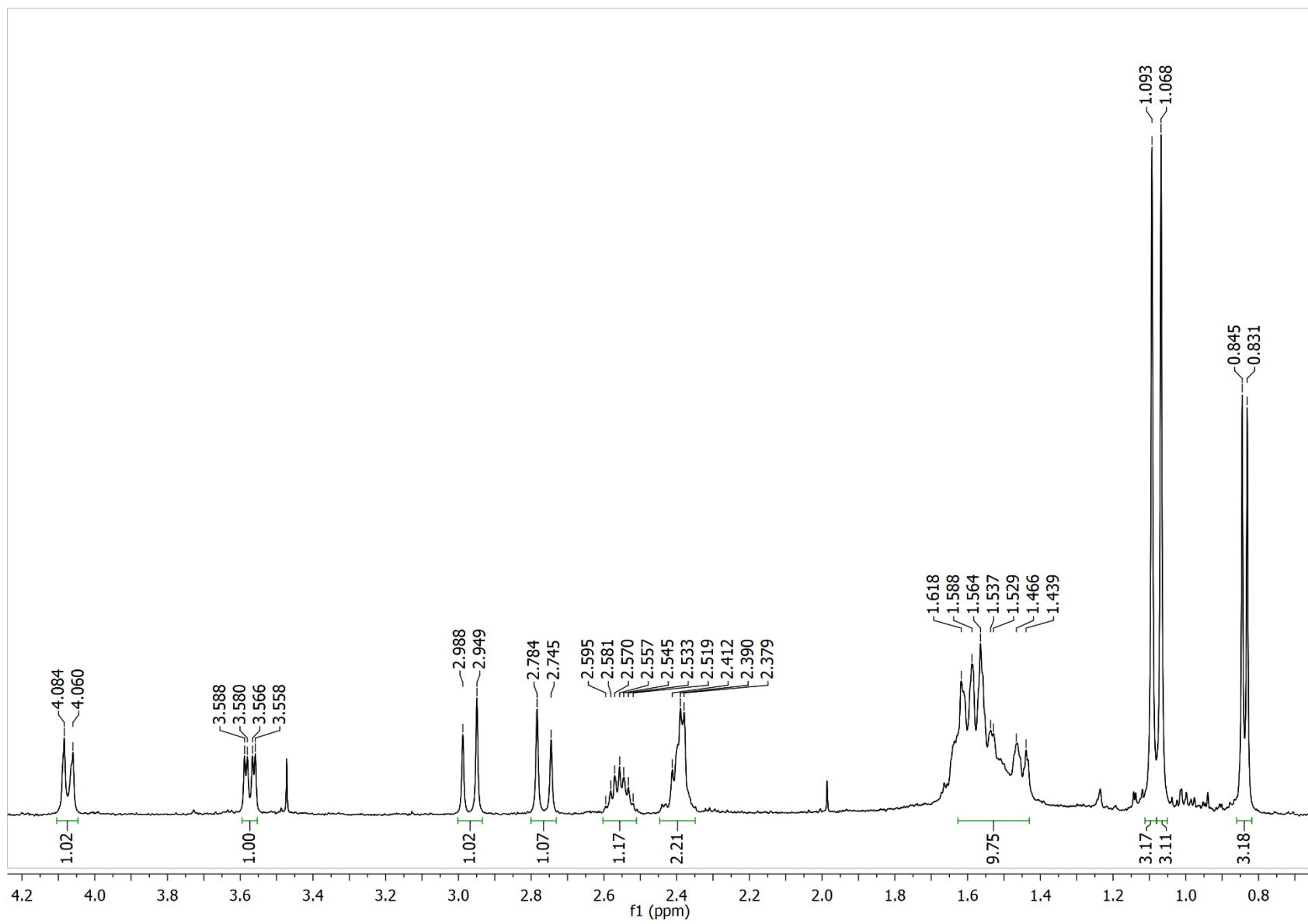


Figure S21. ^{13}C NMR (125 MHz, CDCl_3) spectrum of **2**

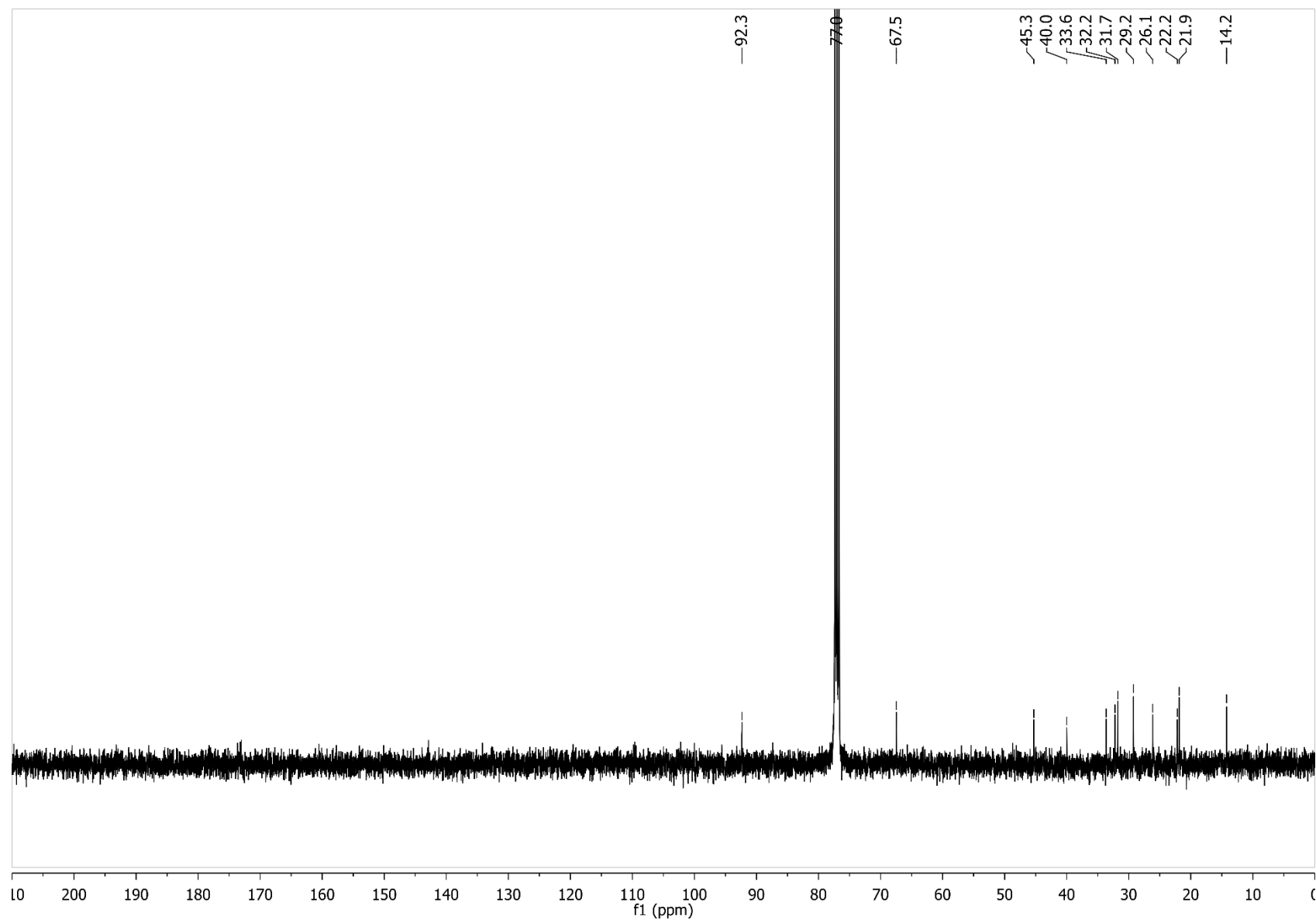


Figure S22. ^{13}C NMR (200 MHz, CDCl_3) spectrum of **2**

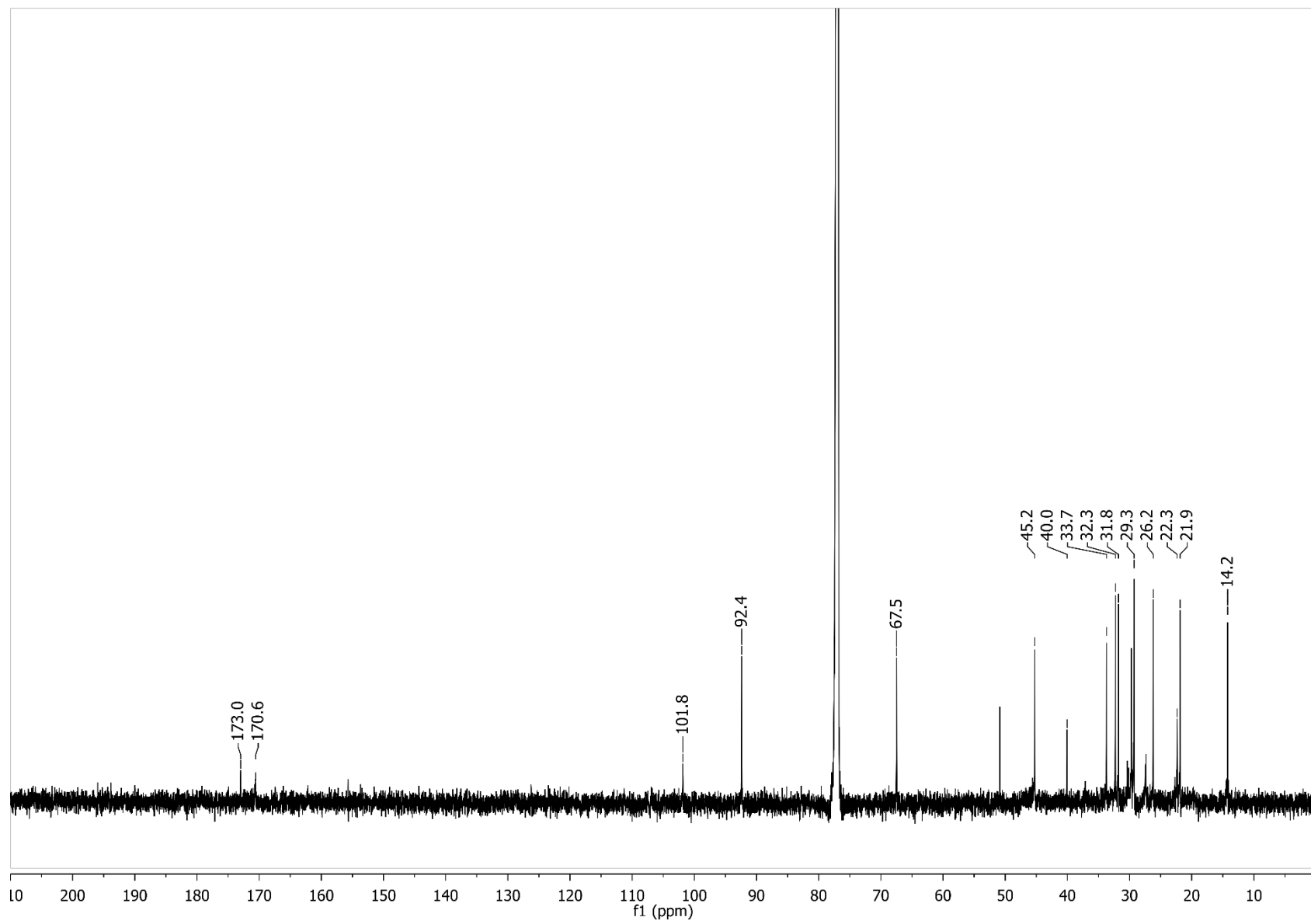


Figure S23. HSQC NMR (500 MHz, CDCl₃) extension spectrum of **2**

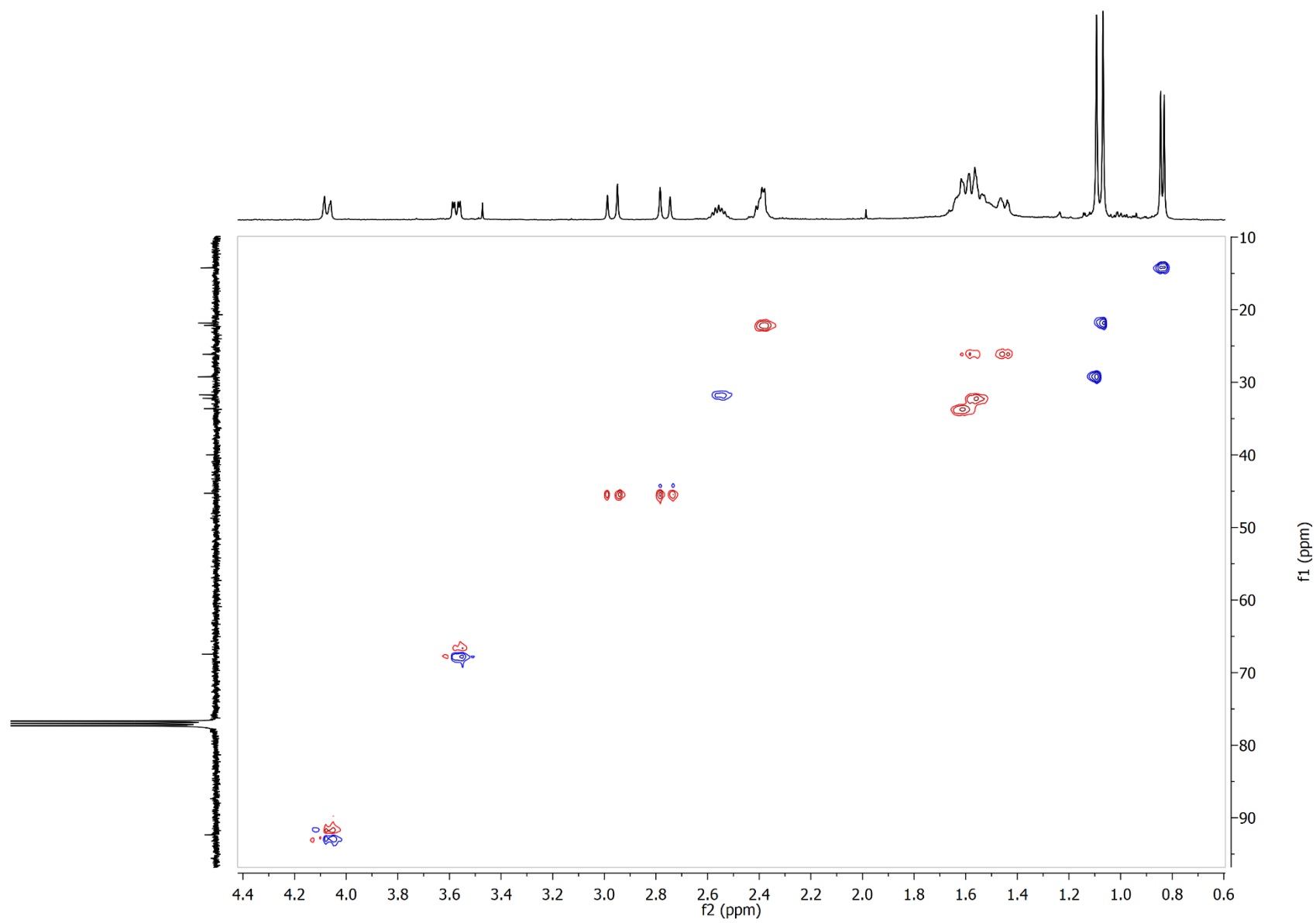


Figure S24. HMBC NMR (500 MHz, CDCl₃) spectrum of **2**

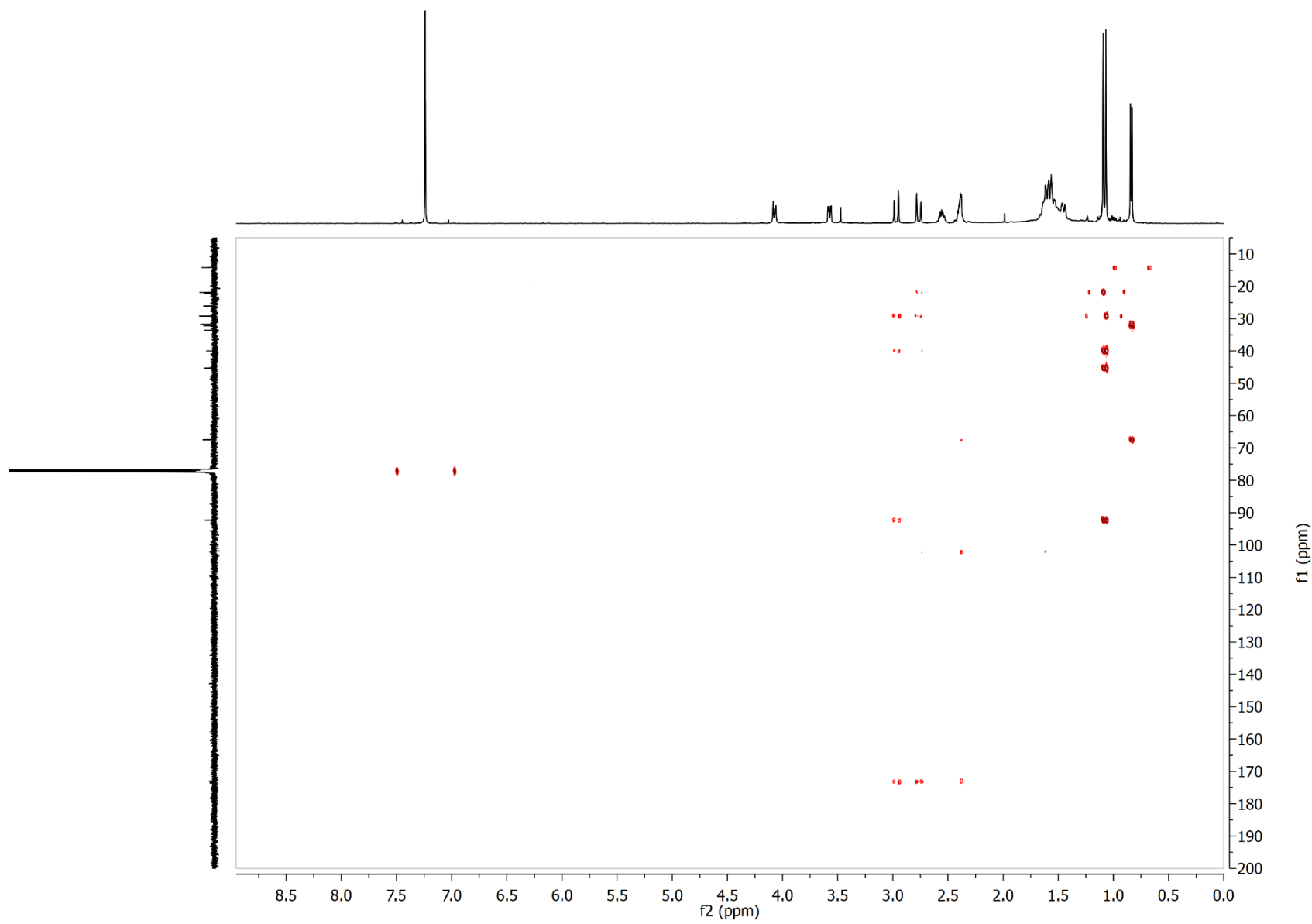


Figure S25. HMBC NMR (500 MHz, CDCl₃) extension spectrum of **2**

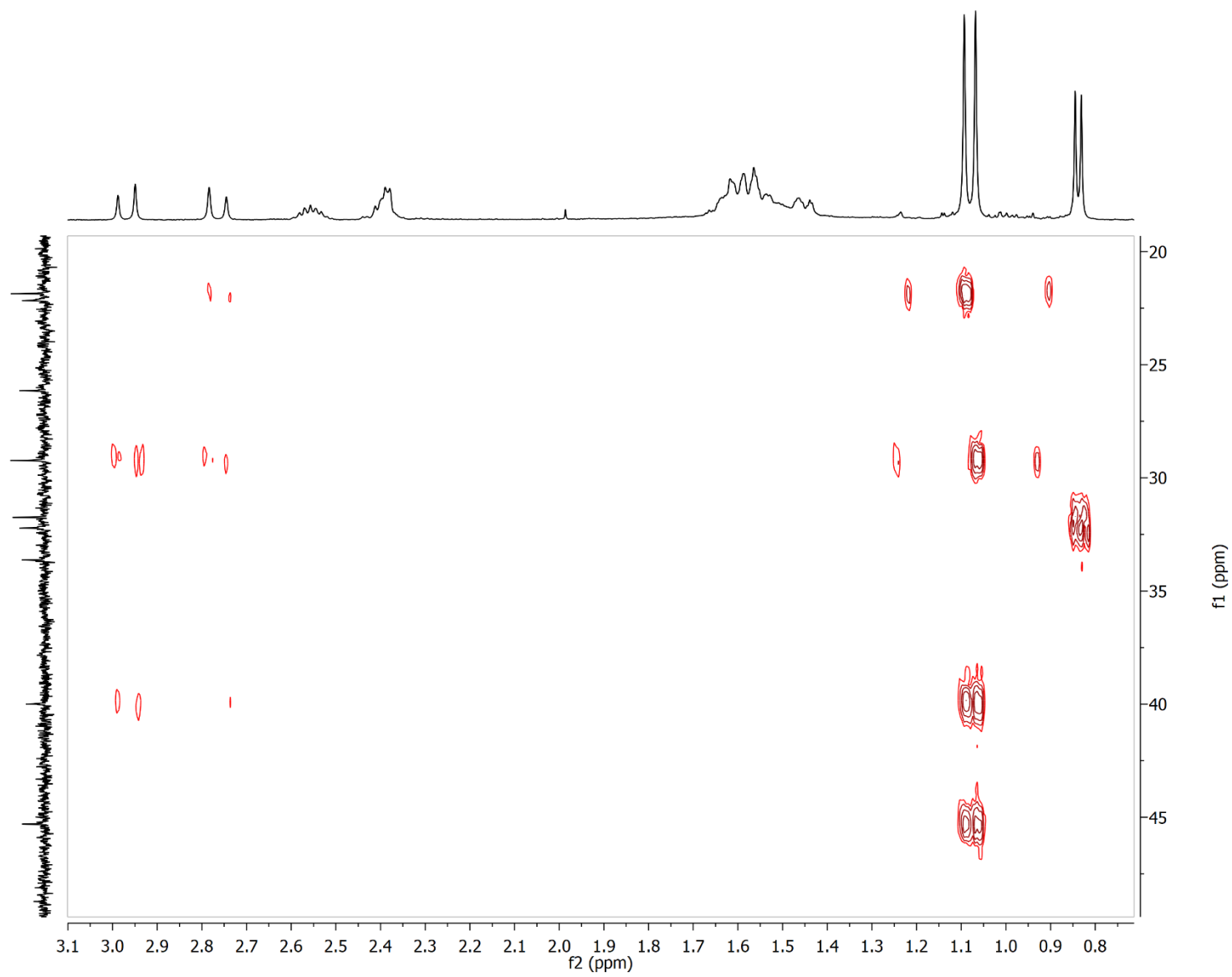


Figure S26. ^1H - ^1H COSY NMR (500 MHz, CDCl_3) spectrum of **2**

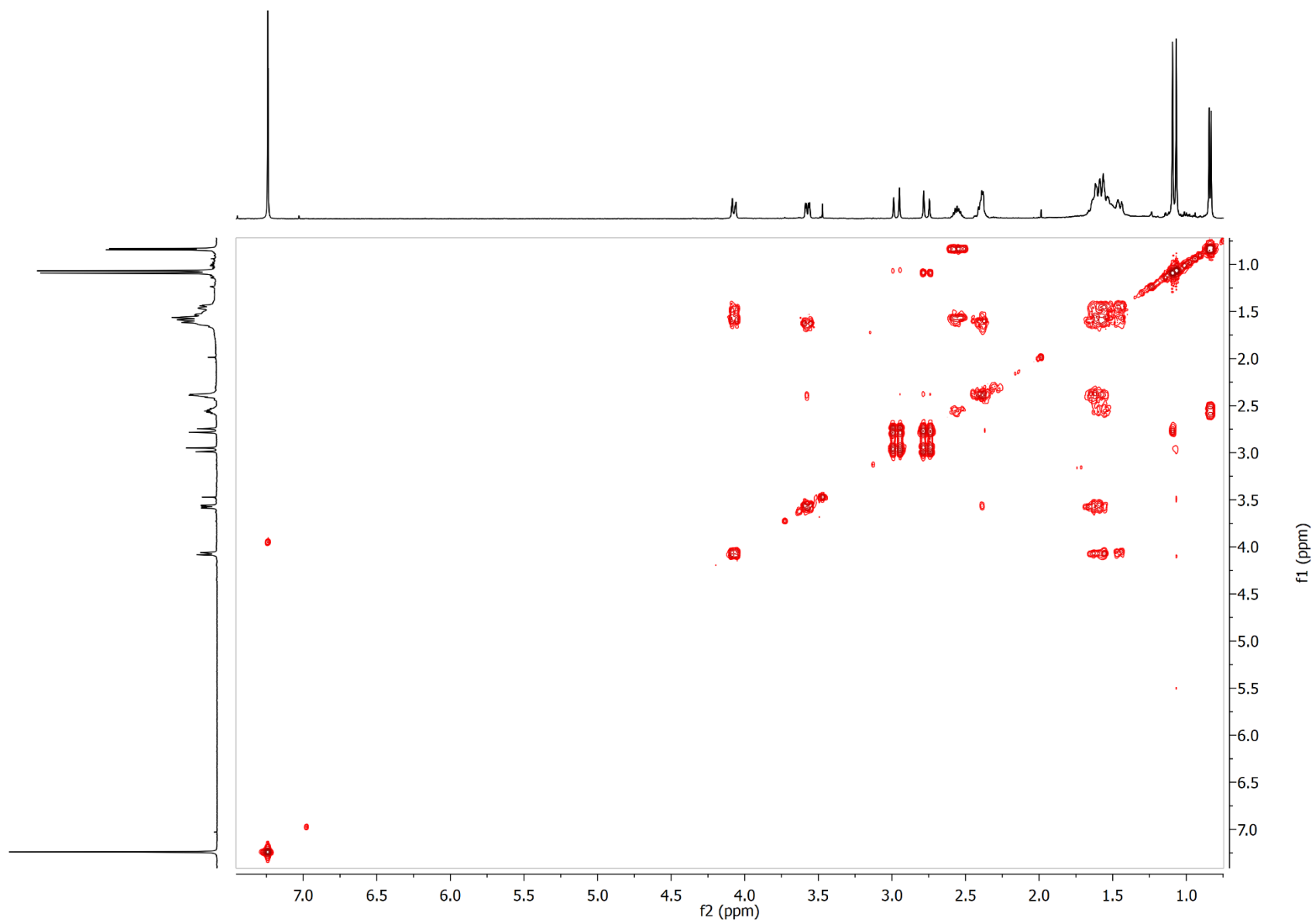


Figure S27. ^1H - ^1H NOESY NMR (500 MHz, CDCl_3) spectrum of **2**

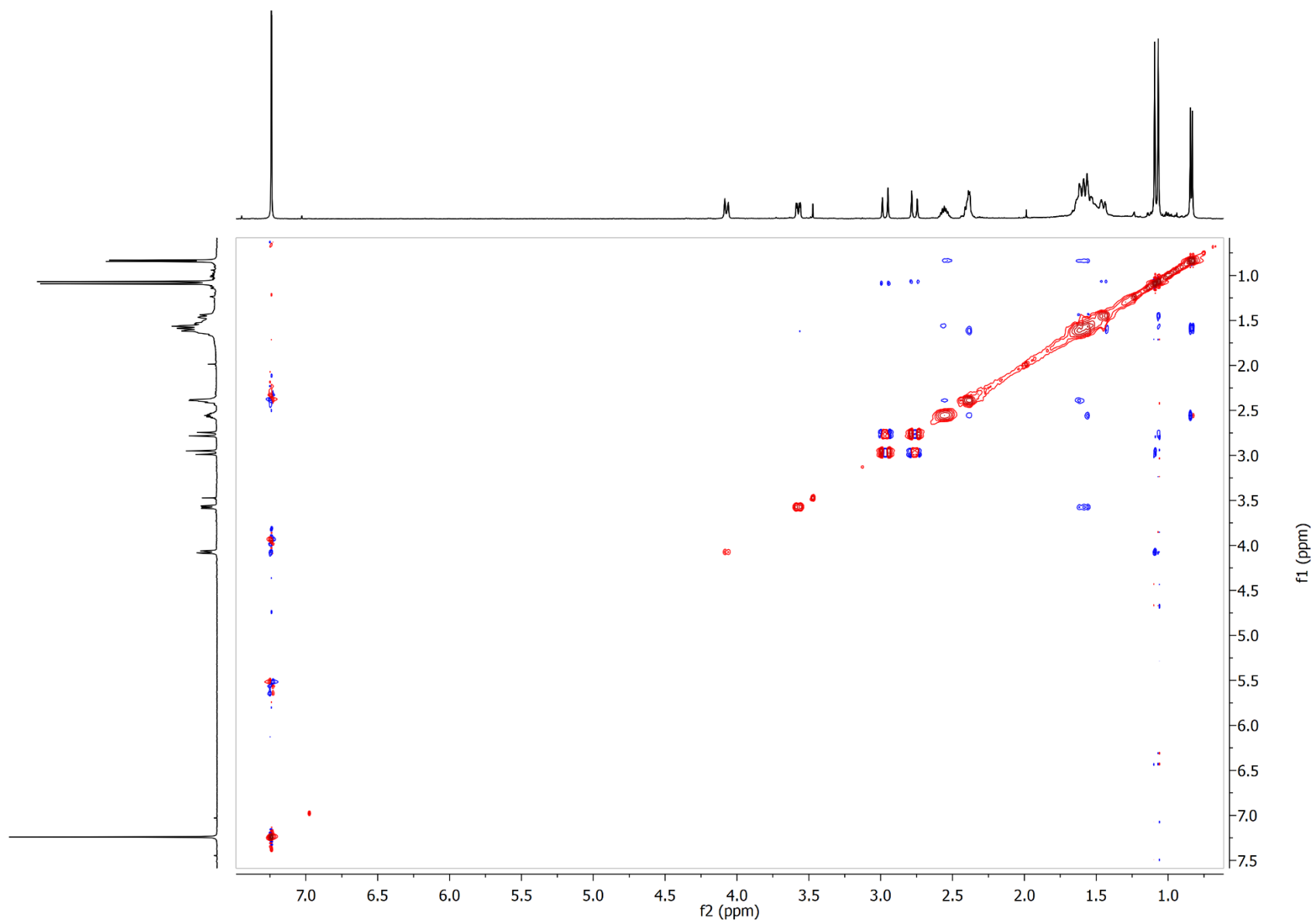


Figure S28. ^1H - ^1H NOESY NMR (500 MHz, CDCl_3) extension spectrum of **2**

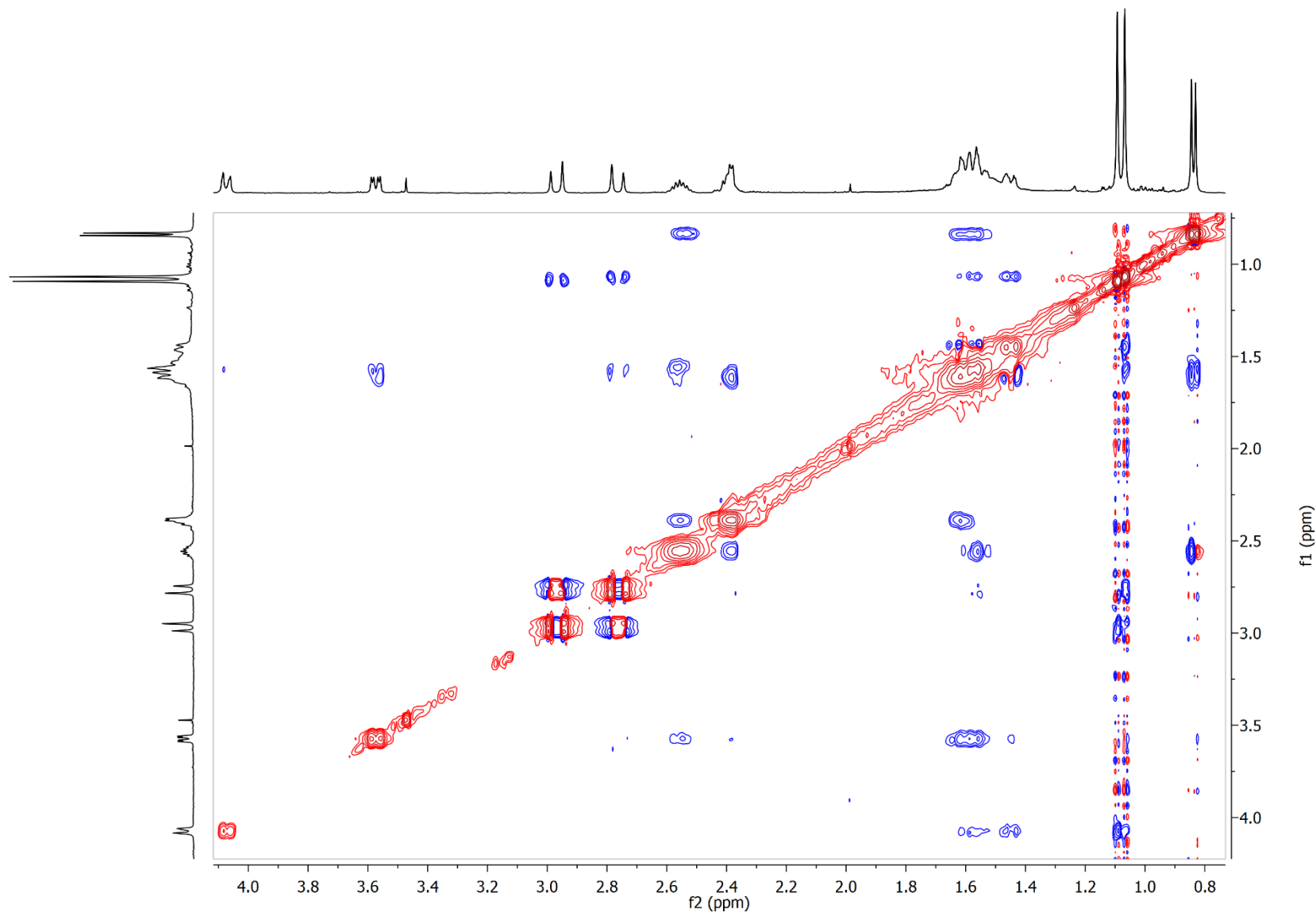


Figure S29. ESIMS/MS spectrum of compound **2** ($[M + H]$, positive ion mode)

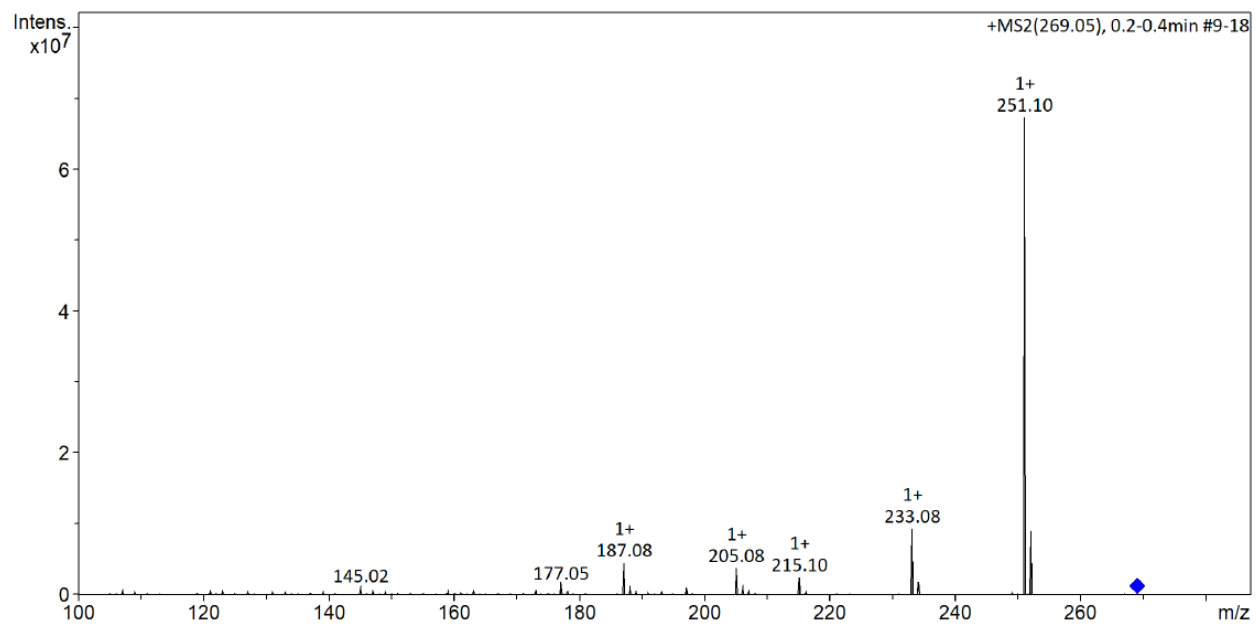


Figure S30. IR spectrum of compound **3**

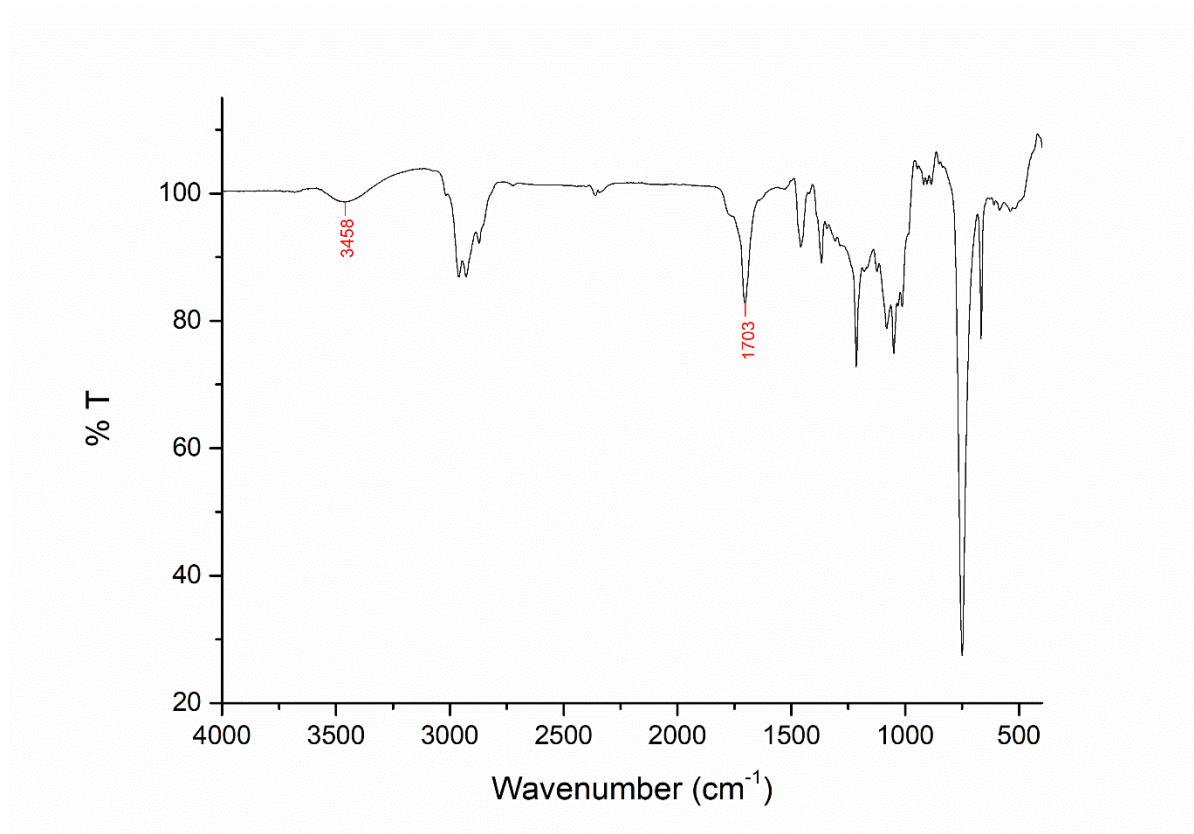


Figure S31. HRESIMS spectrum of compound **3** ([M + Na], positive ion mode)

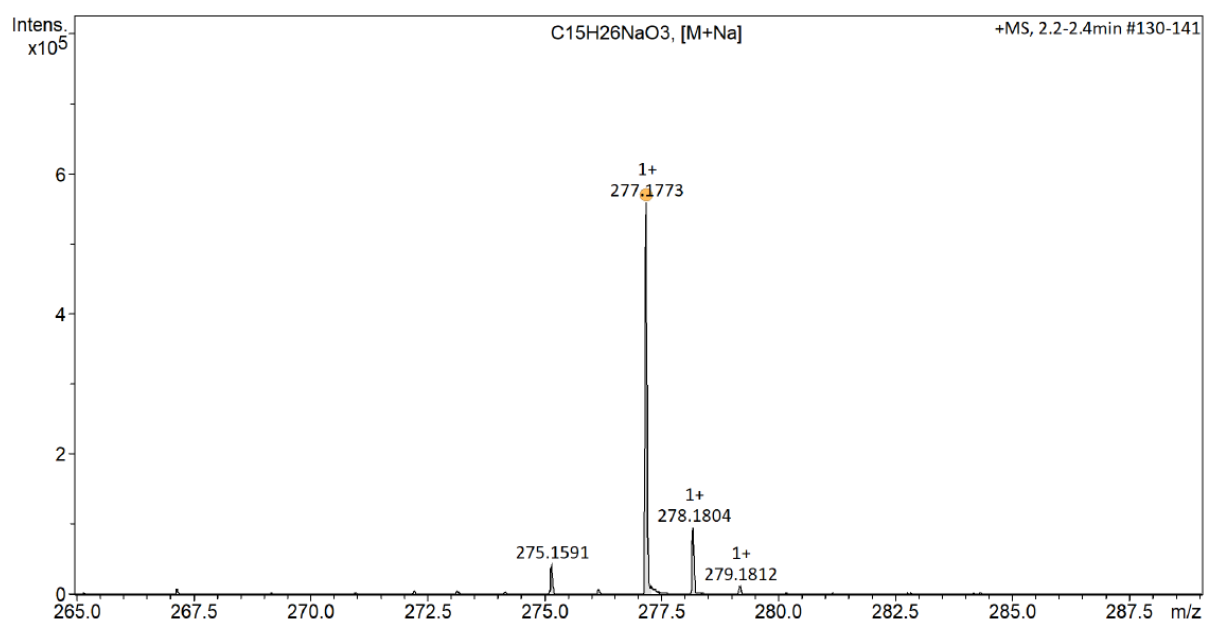


Figure S32. ^1H NMR (400 MHz, CDCl_3) spectrum of **3**

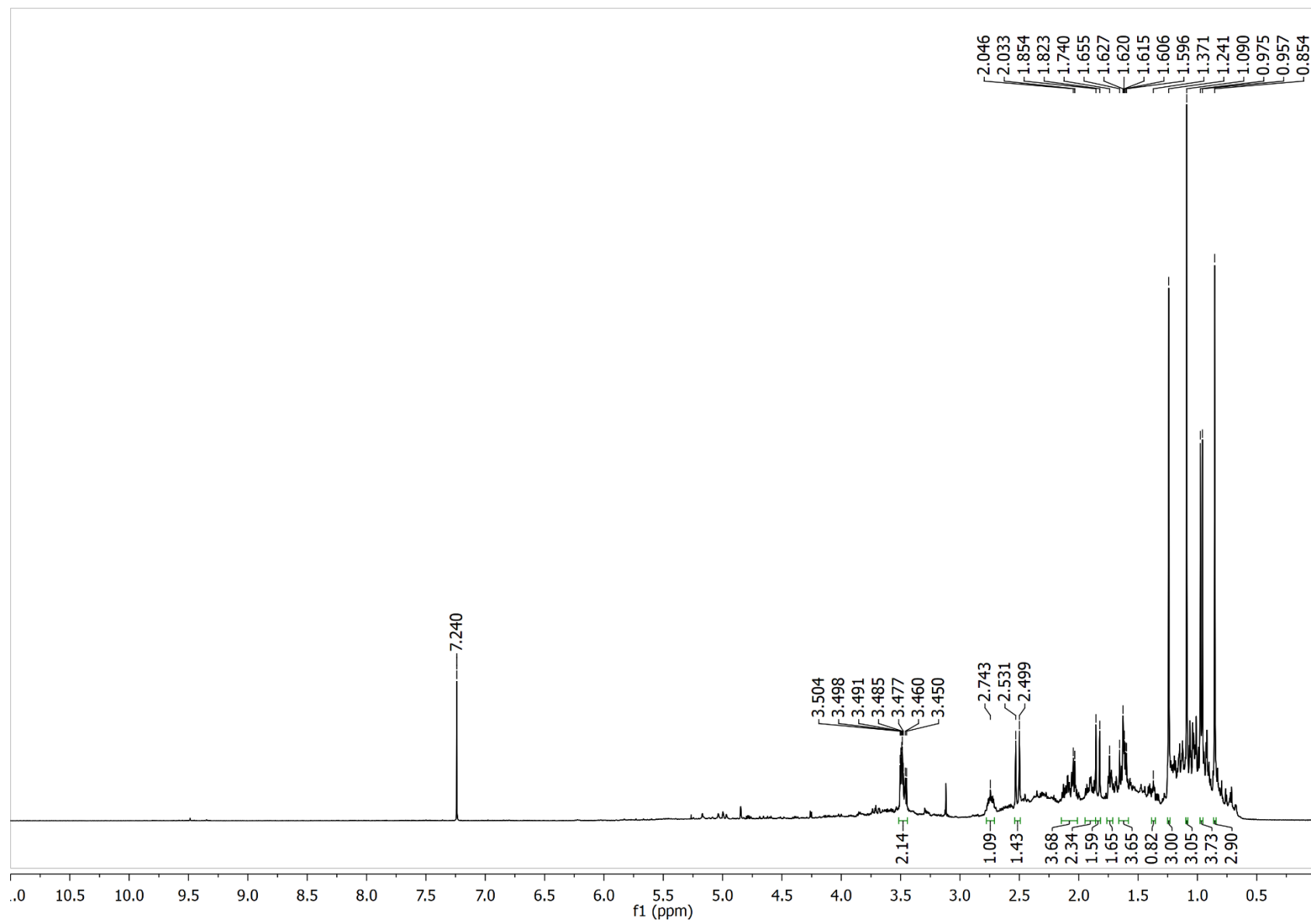


Figure S33. ^1H NMR (400 MHz, CDCl_3) extension spectrum of **3**

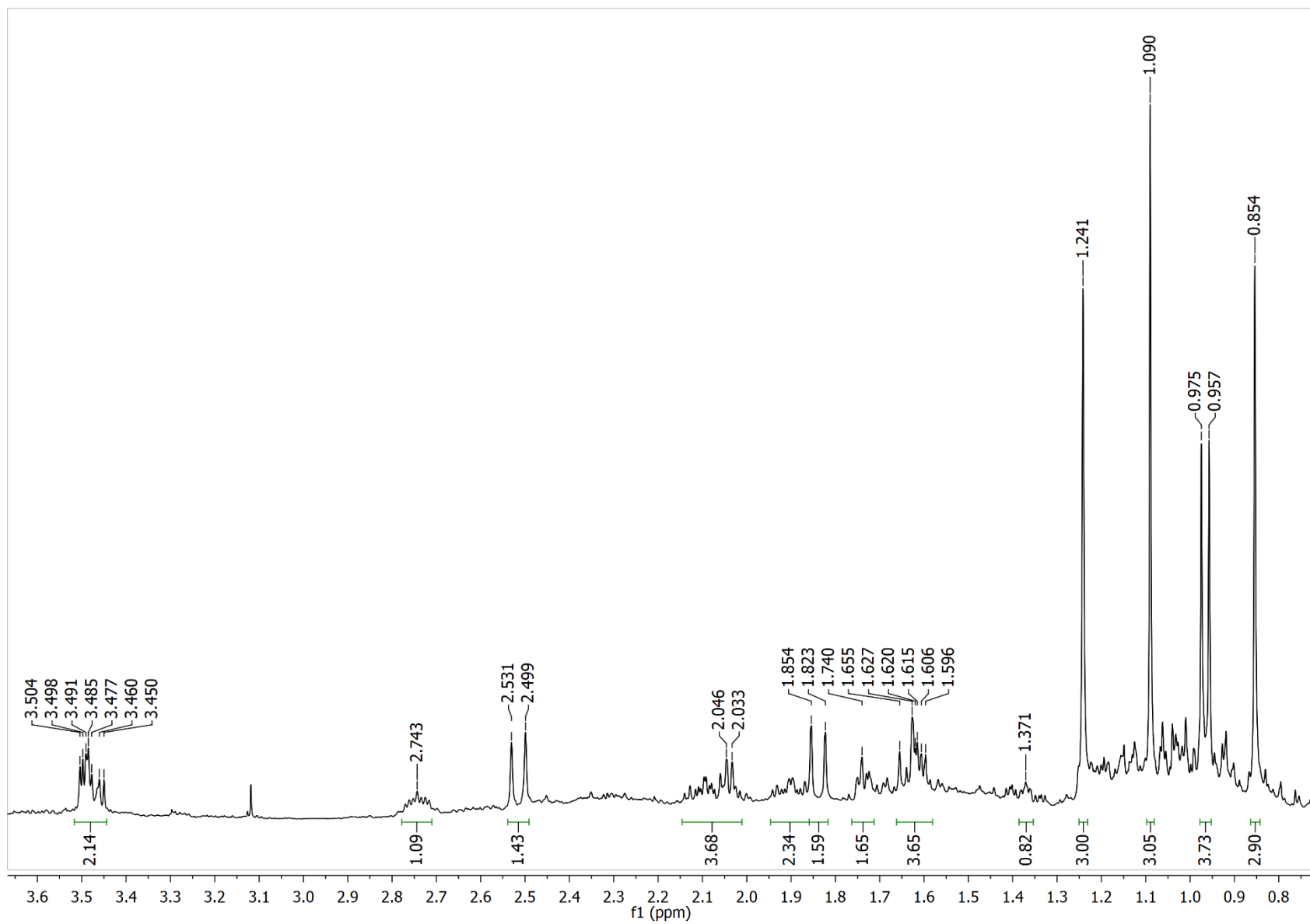


Figure S34. ^{13}C NMR (100 MHz, CDCl_3) spectrum of **3**

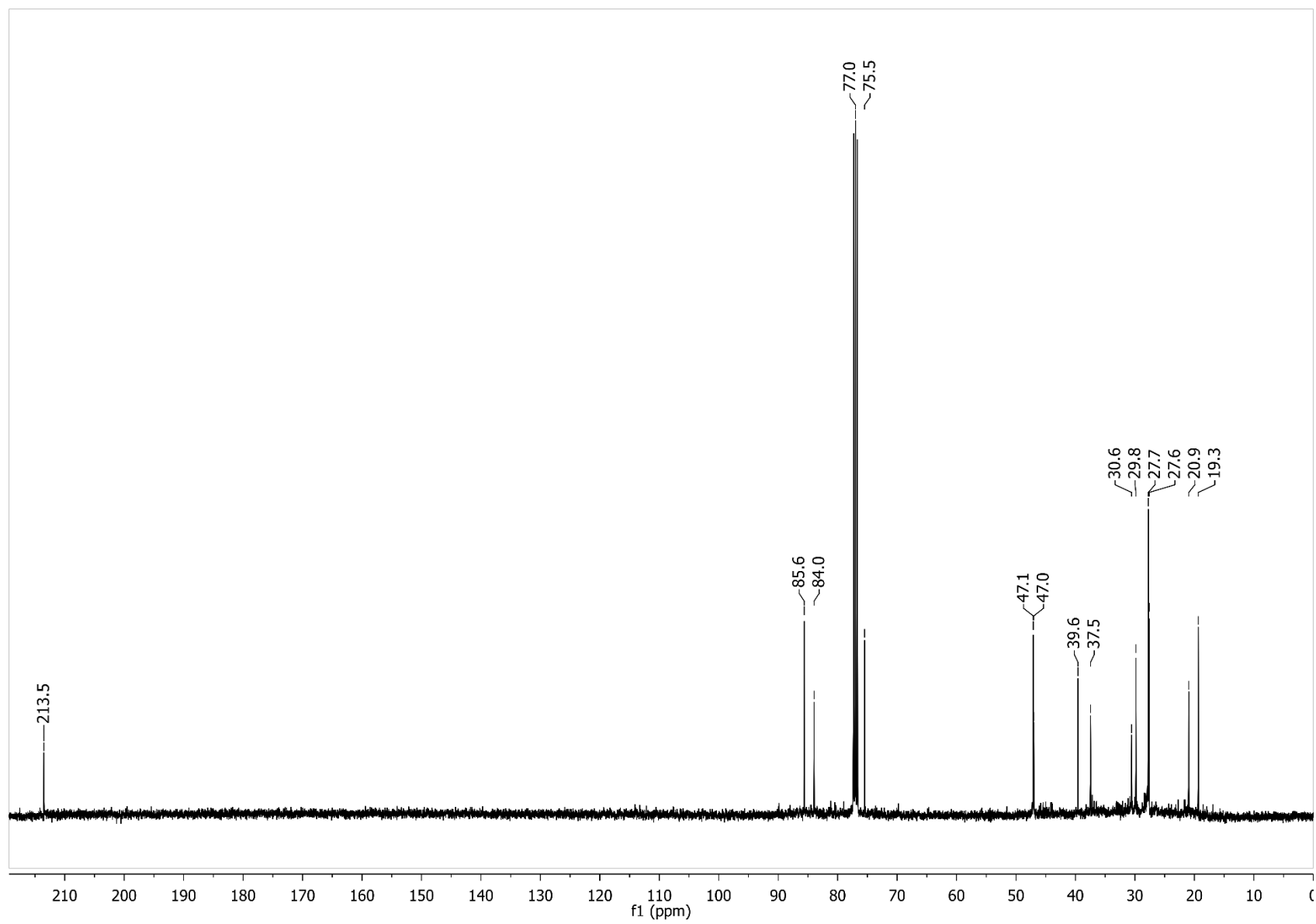


Figure S35. ^{13}C DEPT-135 NMR (100 MHz, CDCl_3) spectrum of **3**

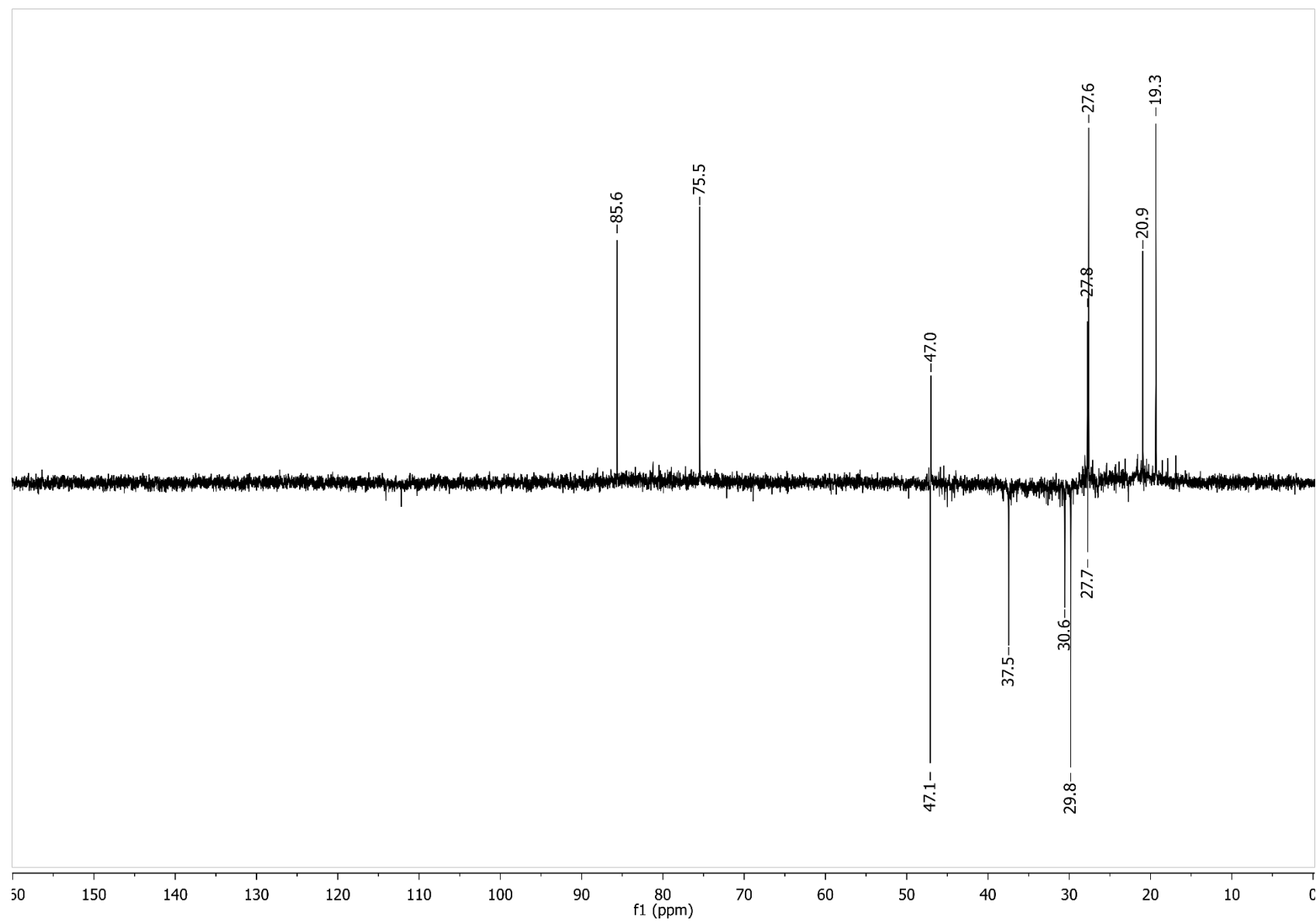


Figure S36. HSQC NMR (400 MHz, CDCl₃) spectrum of **3**

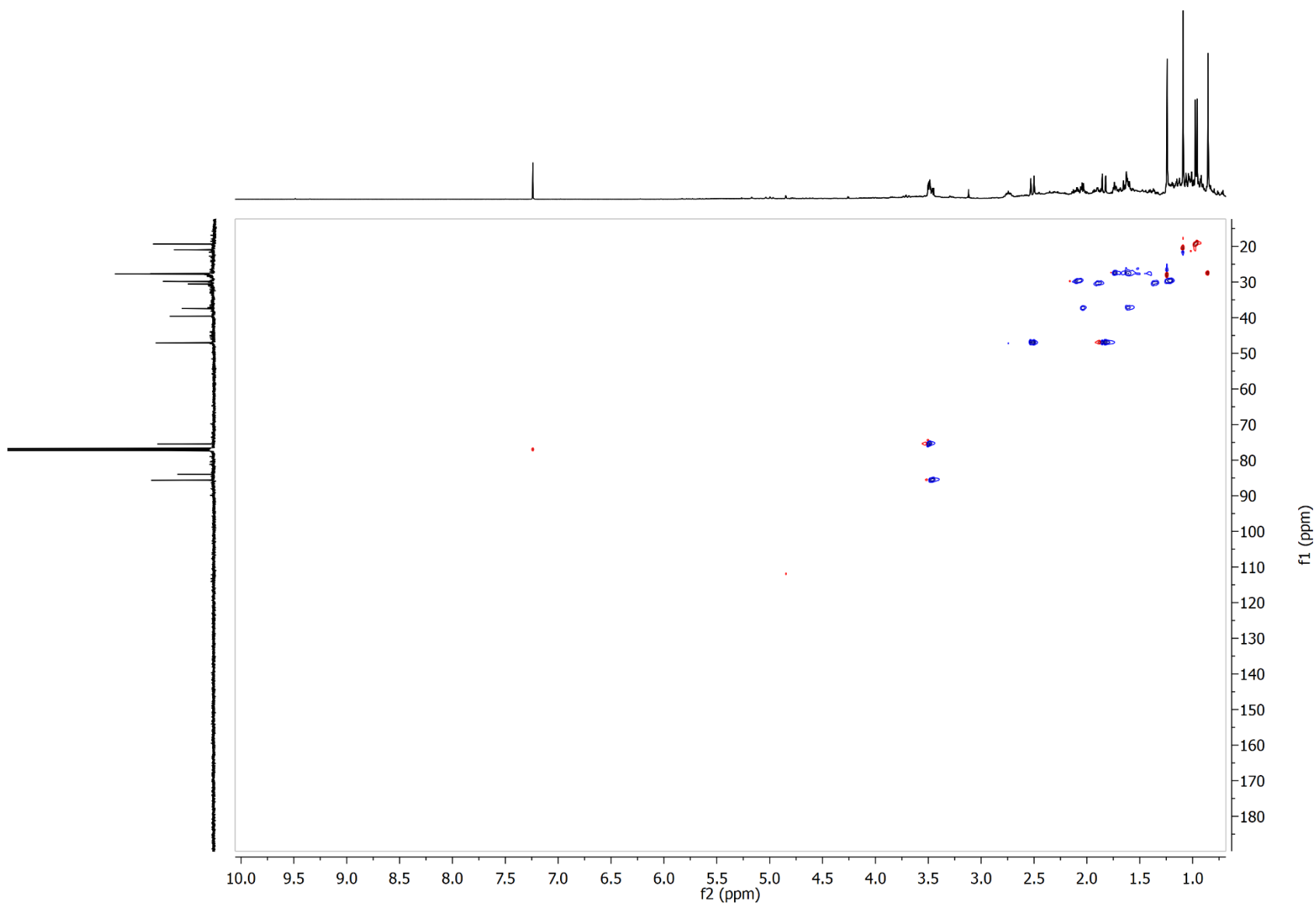


Figure S37. HSQC NMR (400 MHz, CDCl₃) extension spectrum of **3**

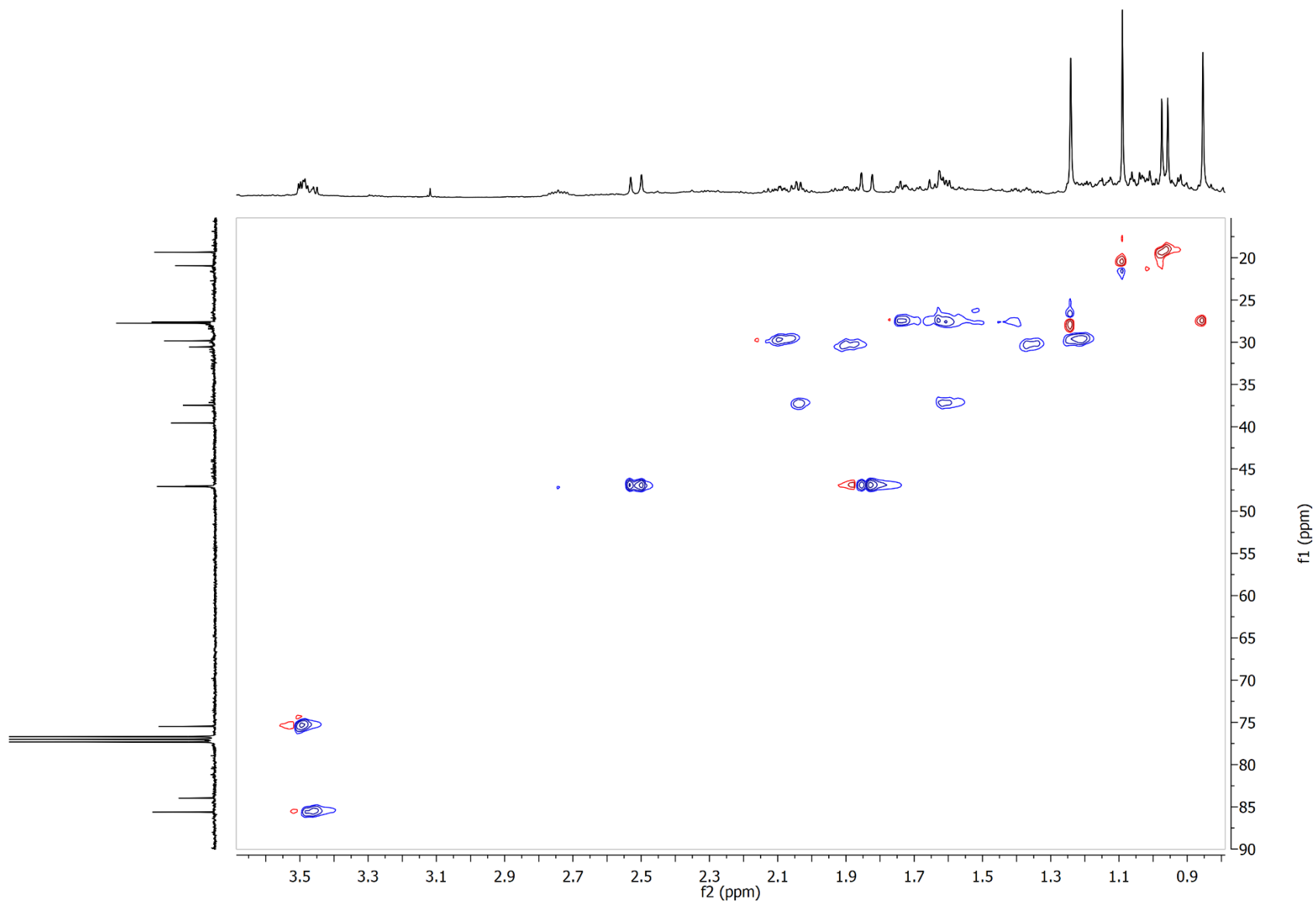


Figure S38. HMBC NMR (400 MHz, CDCl₃) spectrum of **3**

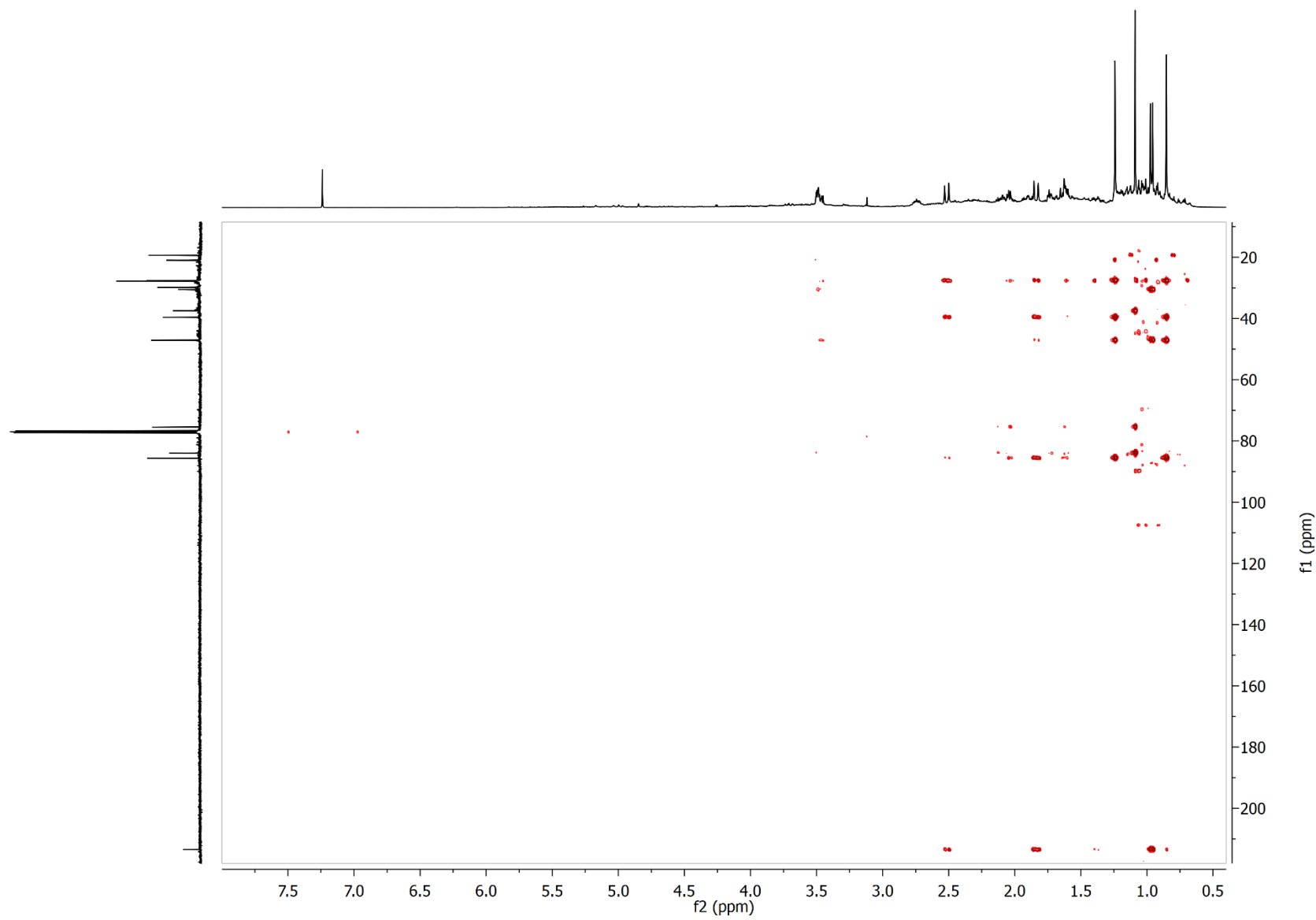


Figure S39. HMBC NMR (400 MHz, CDCl₃) extension spectrum of **3**

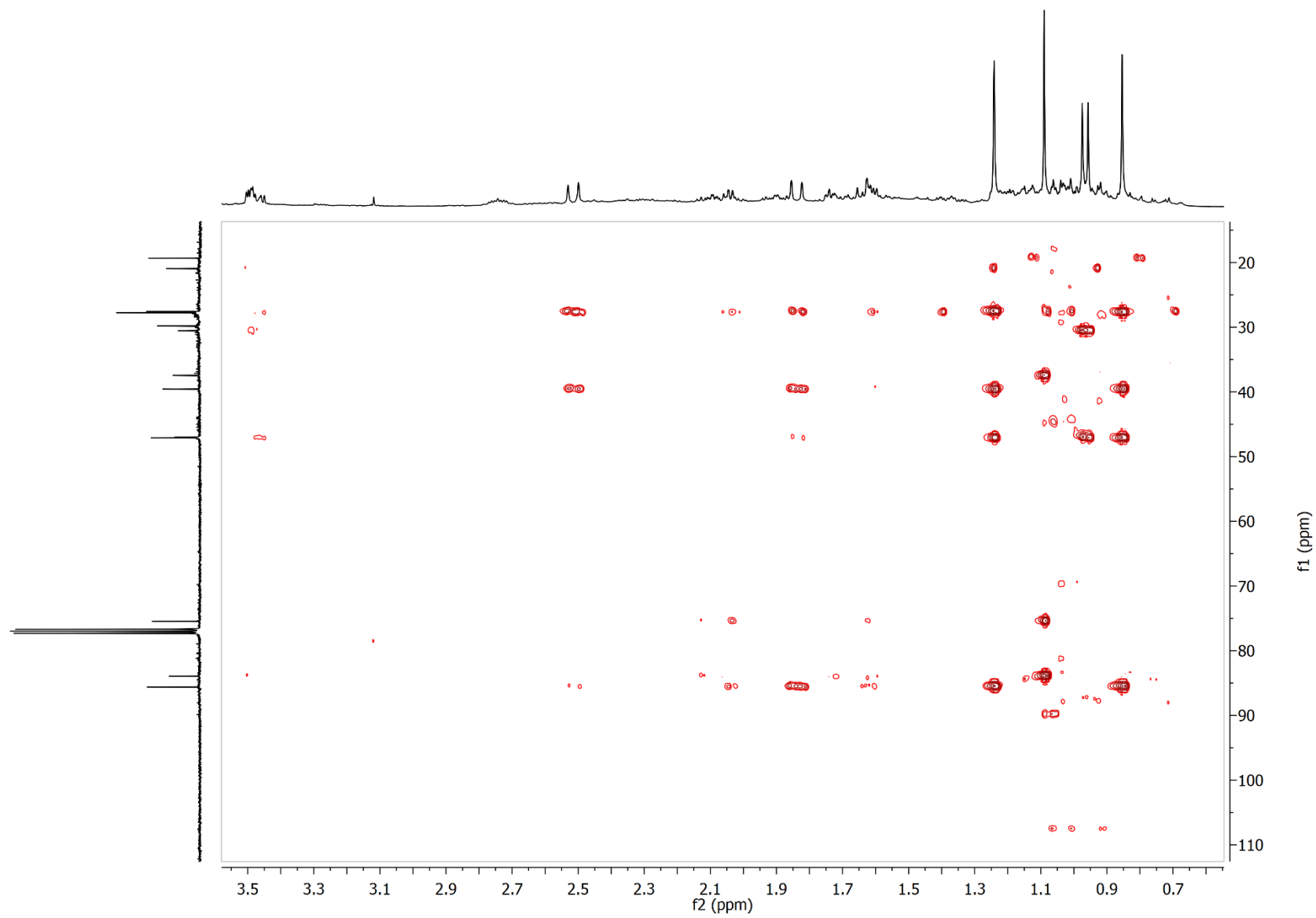


Figure S40. HMBC NMR (400 MHz, CDCl₃) extension spectrum of **3**

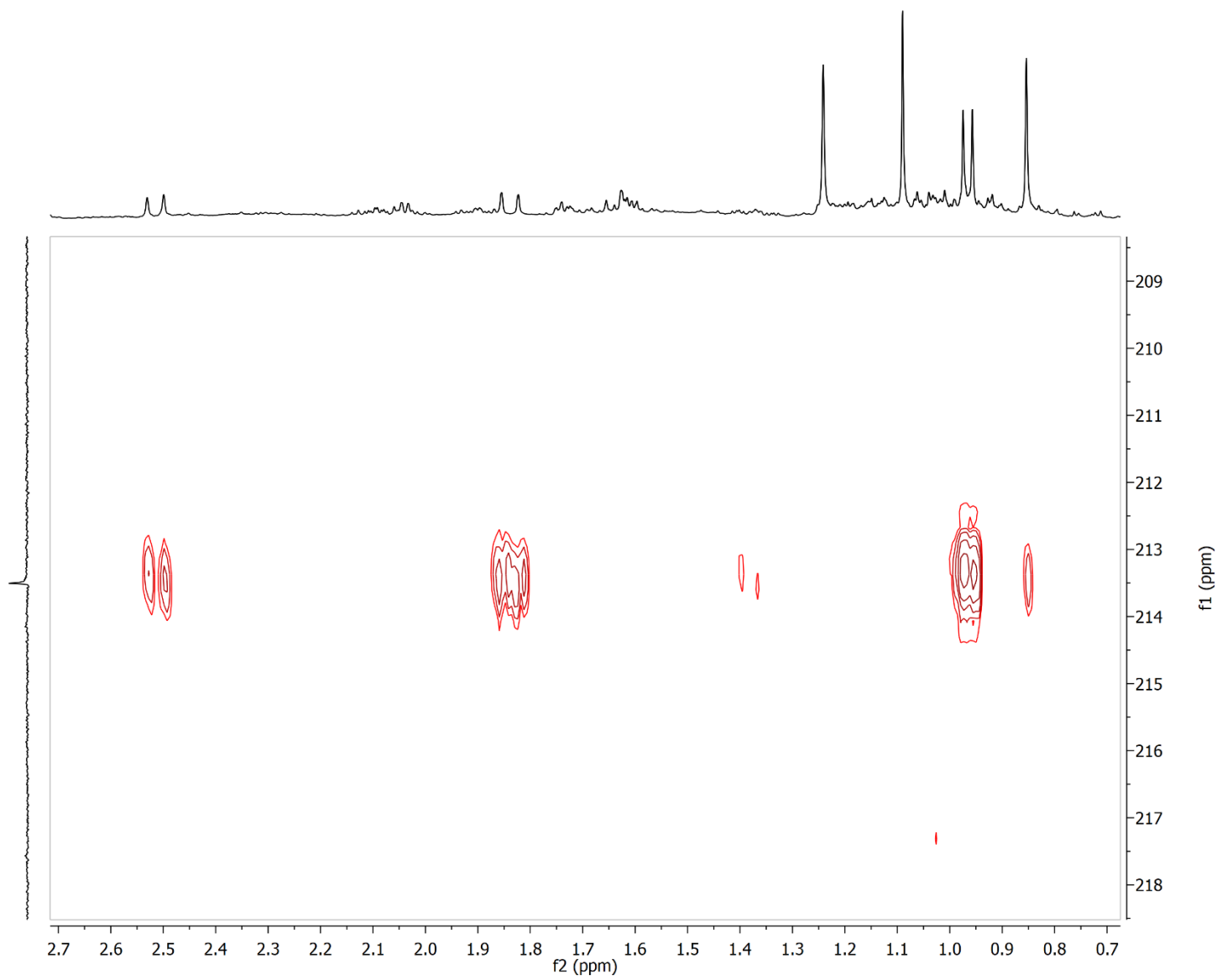


Figure S41. ^1H - ^1H COSY NMR (400 MHz, CDCl_3) spectrum of **3**

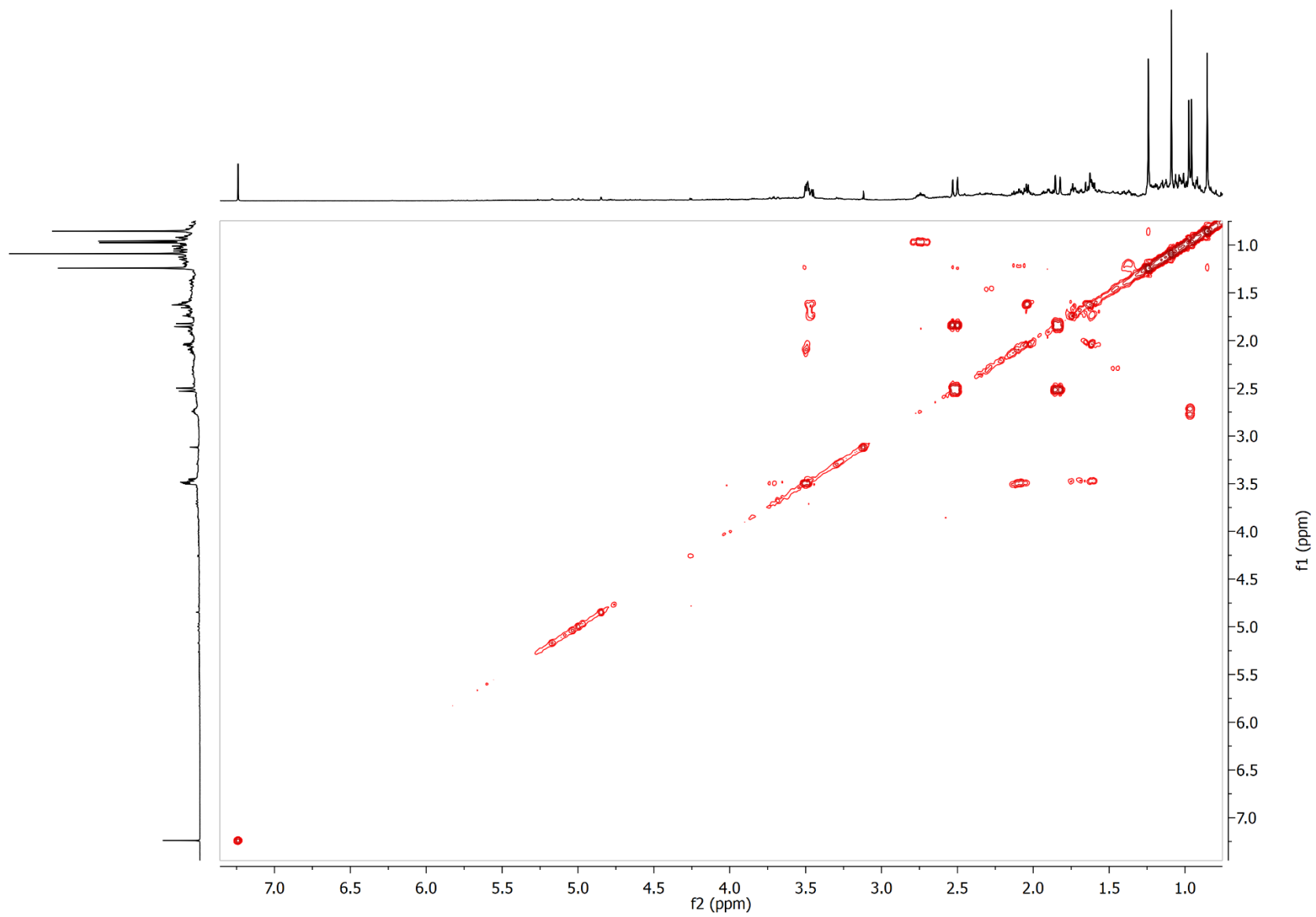


Figure S42. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) spectrum of **3**

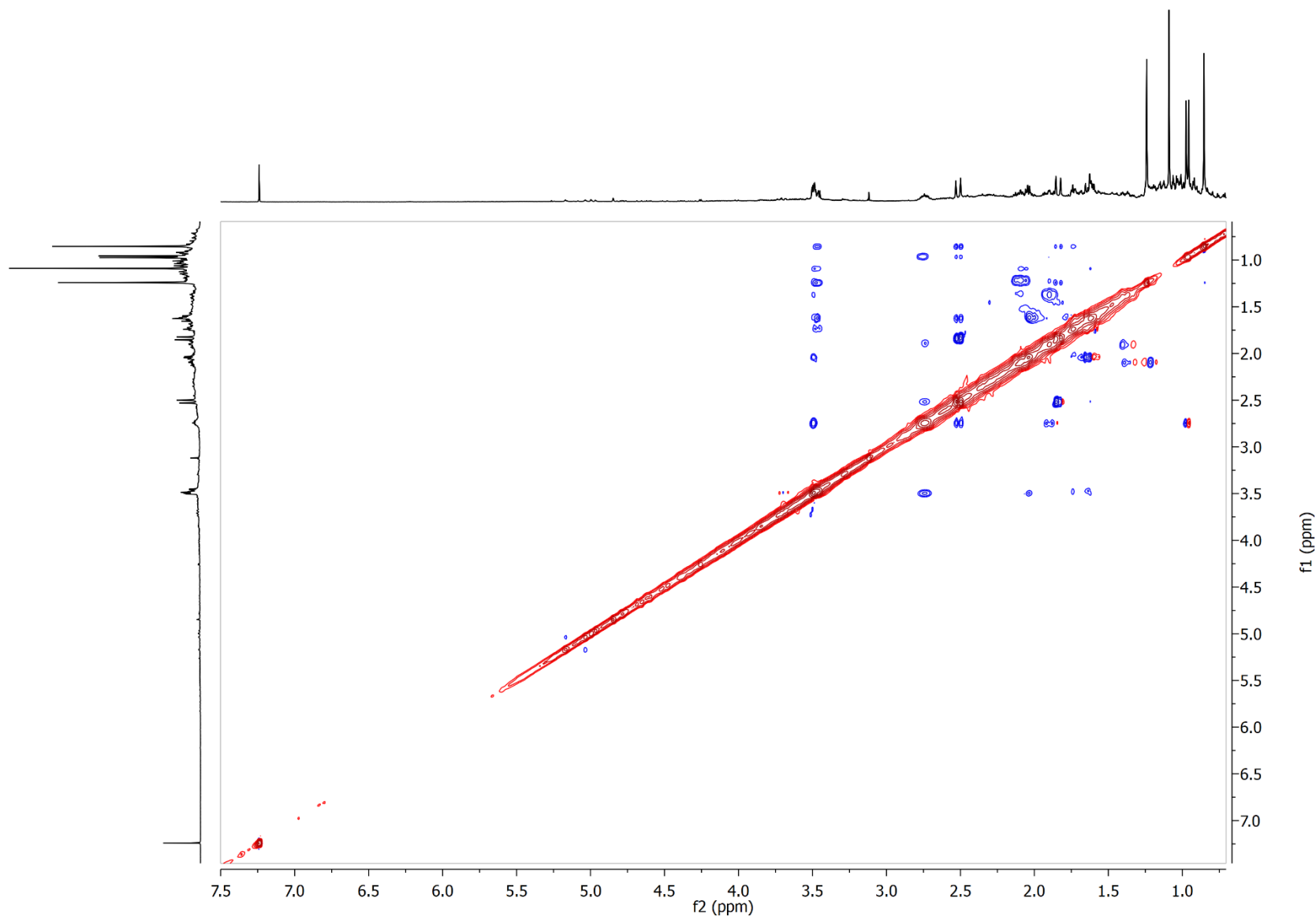


Figure S43. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) extension spectrum of **3**

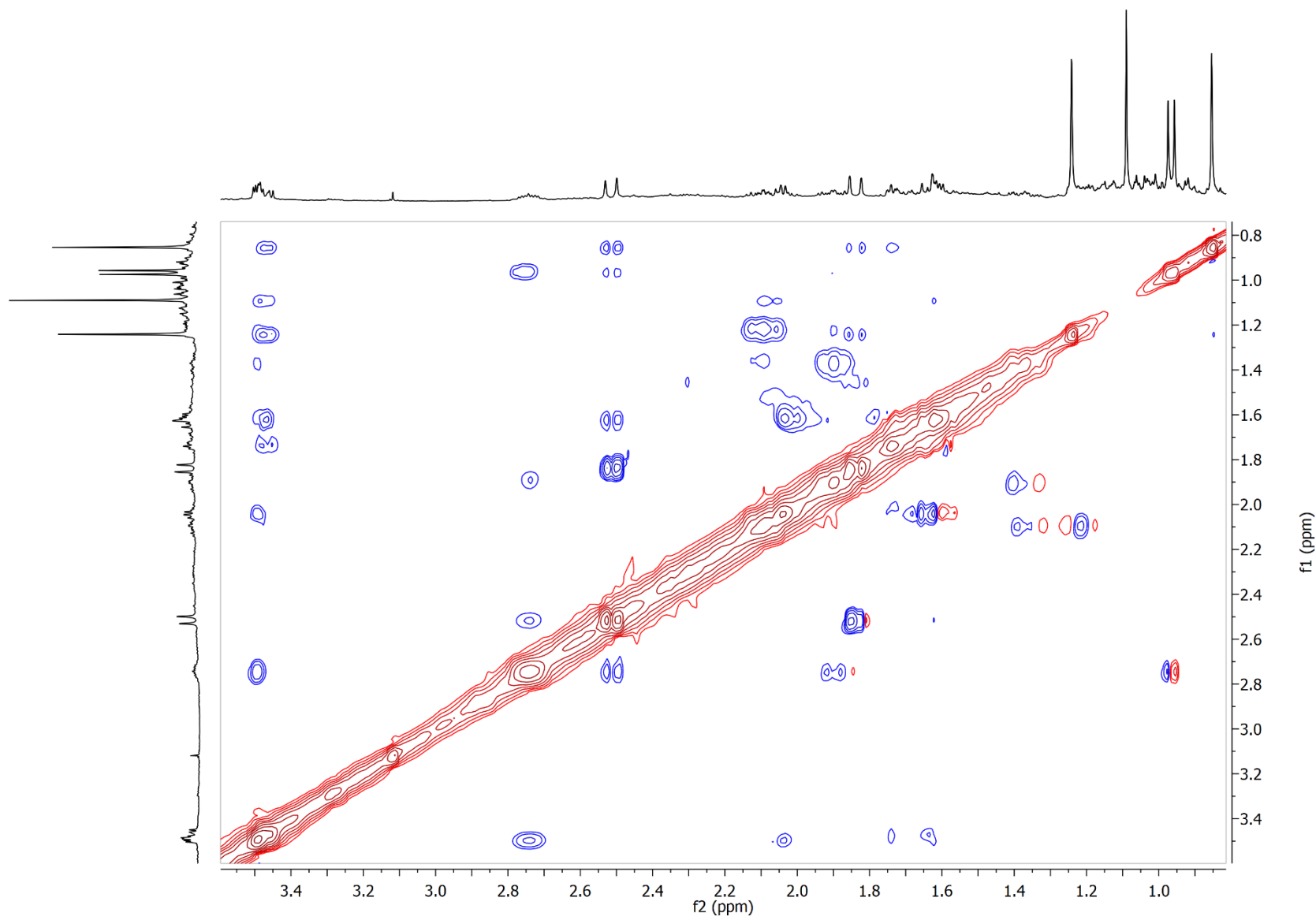


Figure S44. ^1H NMR (400 MHz, CDCl_3) spectrum of acetylated **3**

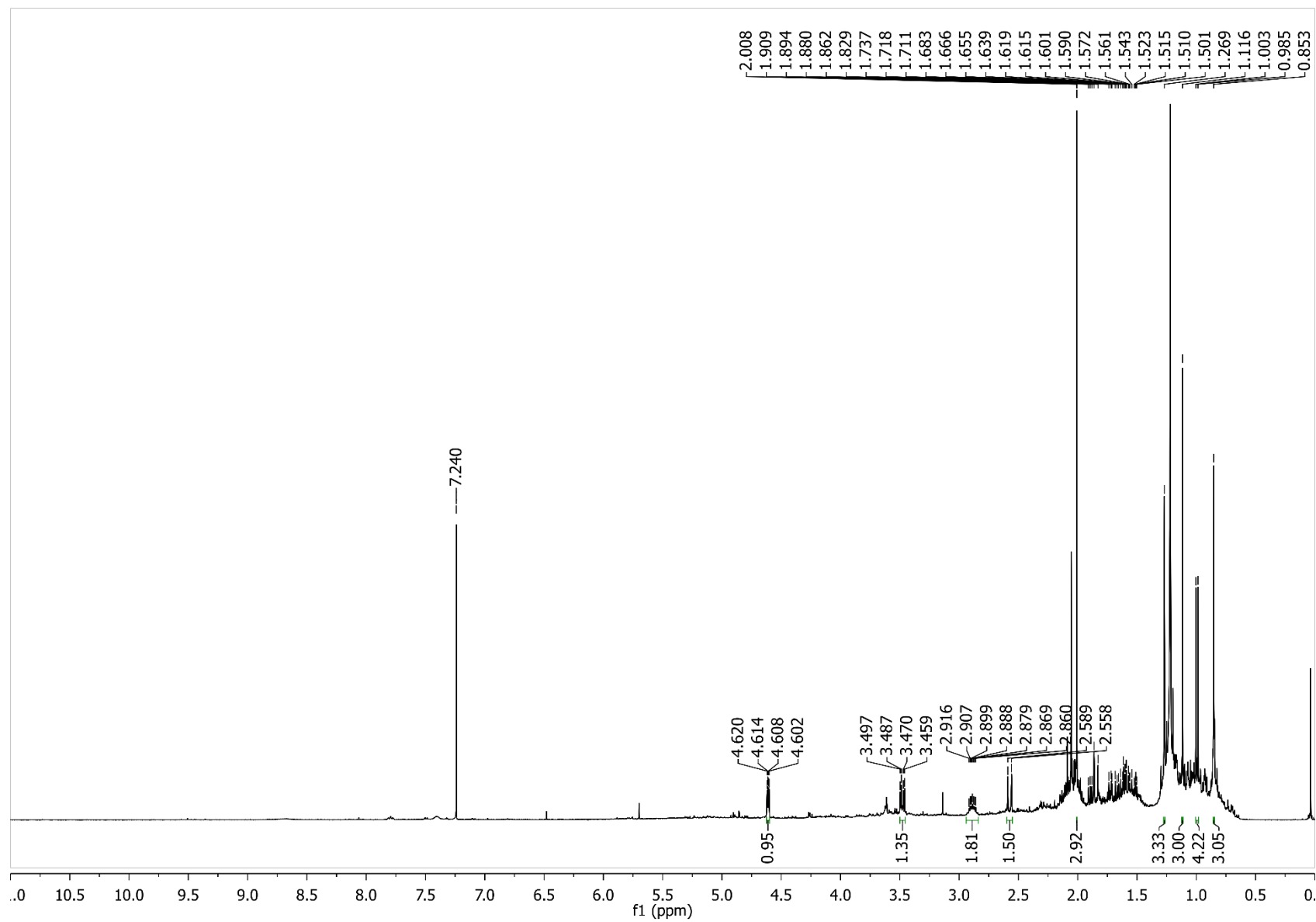


Figure S45. ¹H NMR (400 MHz, CDCl₃) extension spectrum of acetylated **3**

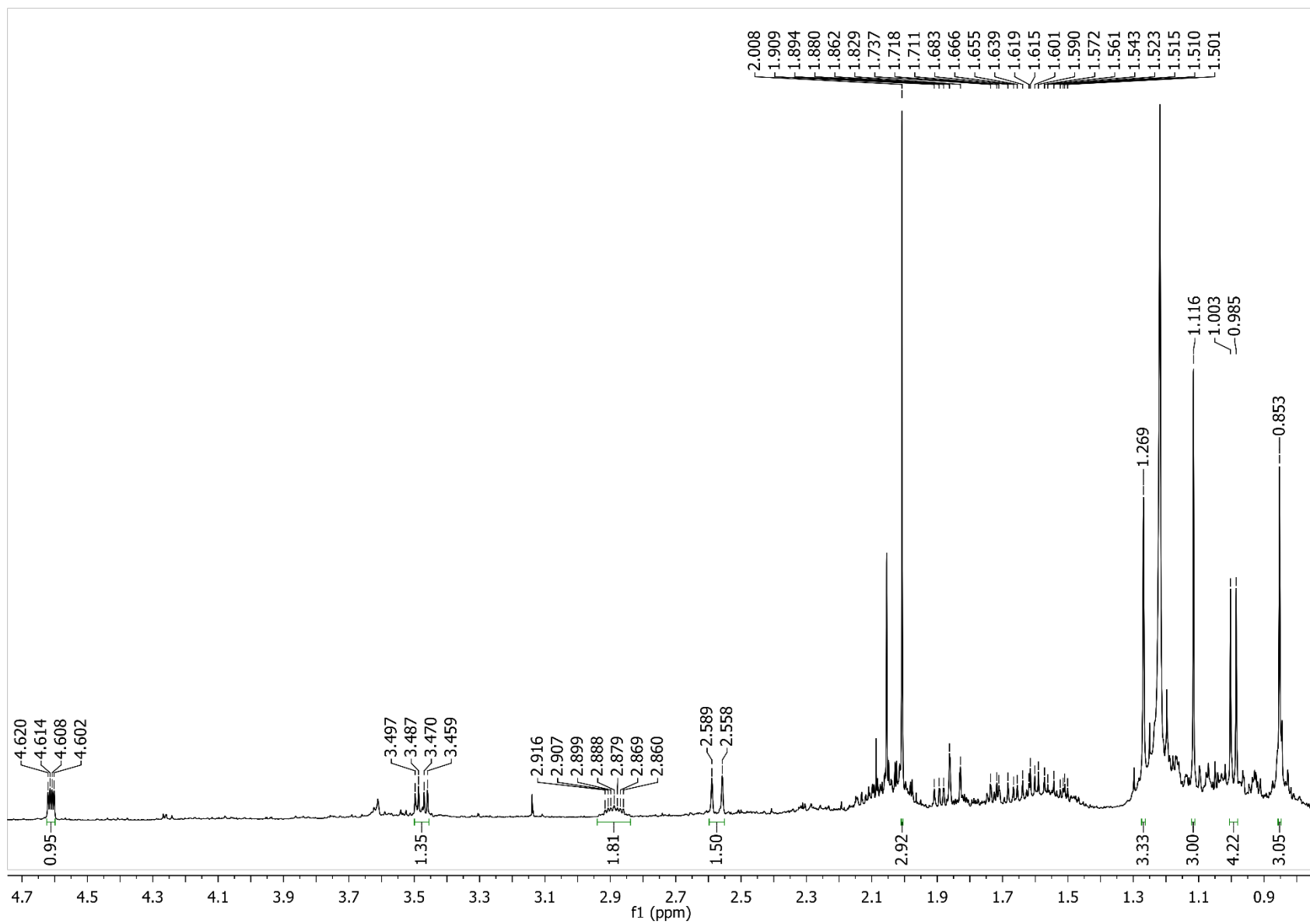


Figure S46. ^{13}C NMR (100 MHz, CDCl_3) spectrum of acetylated **3**

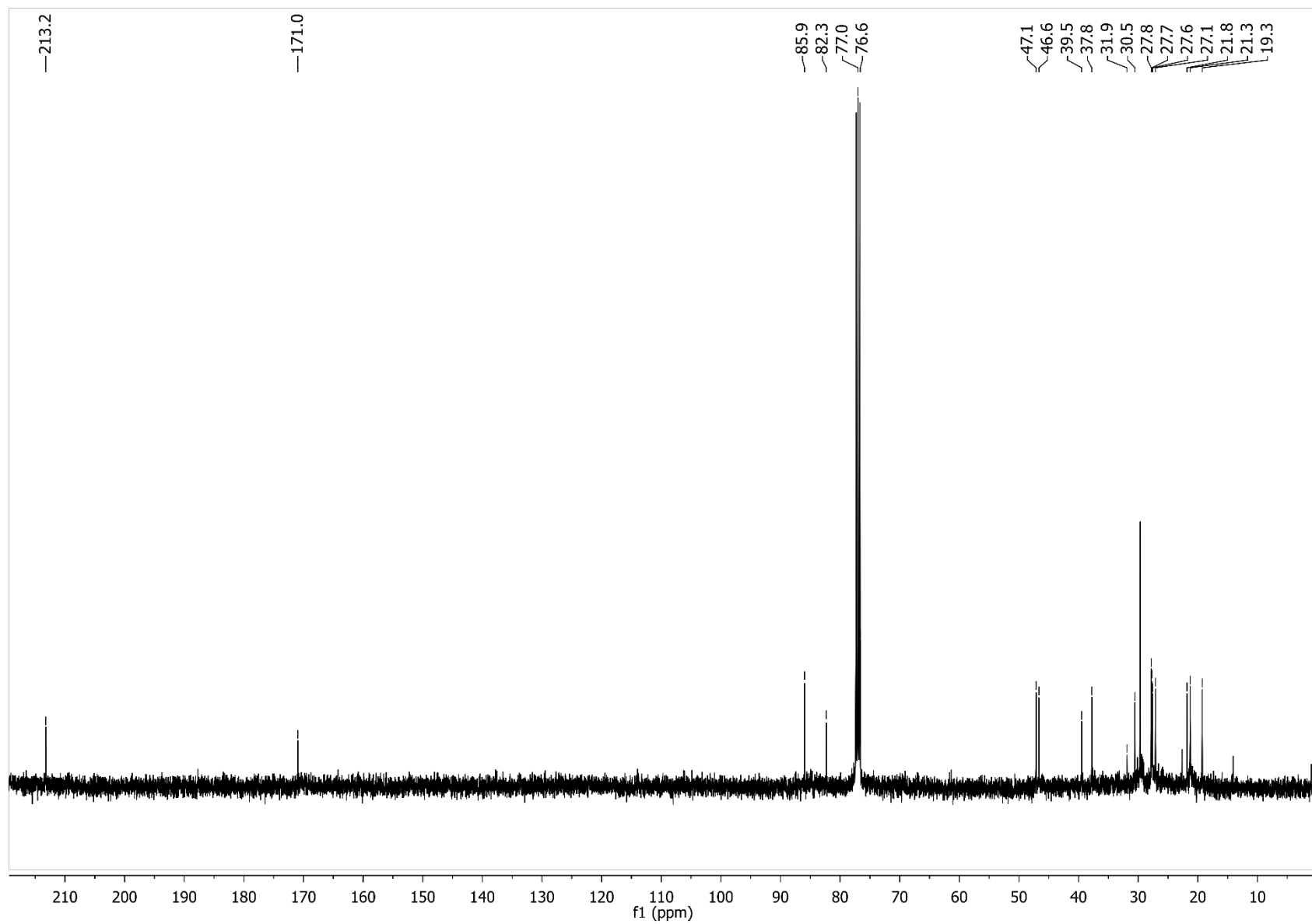


Figure S47. HSQC NMR (400 MHz, CDCl₃) spectrum of acetylated **3**

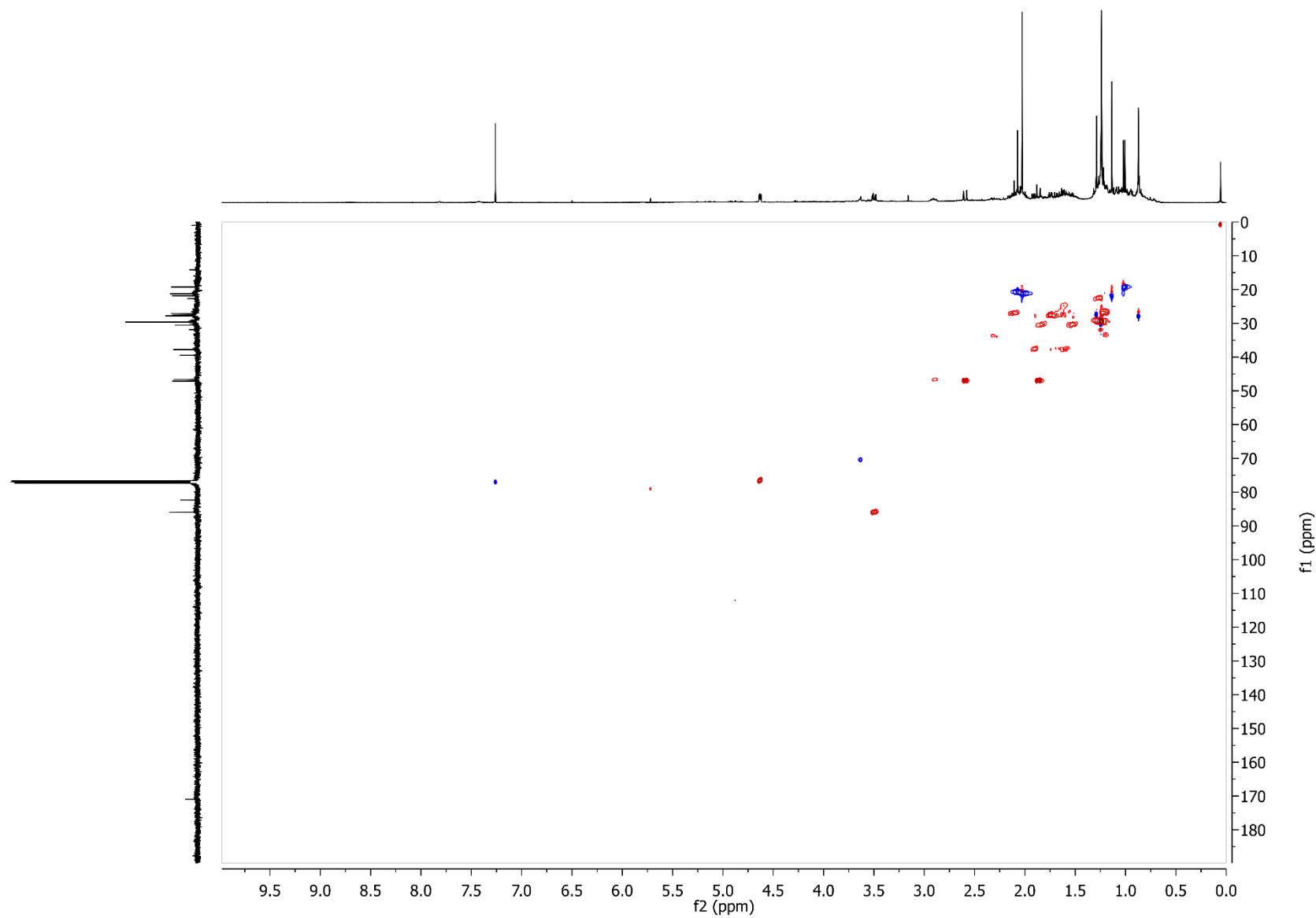


Figure S48. HSQC NMR (400 MHz, CDCl₃) extension spectrum of acetylated **3**

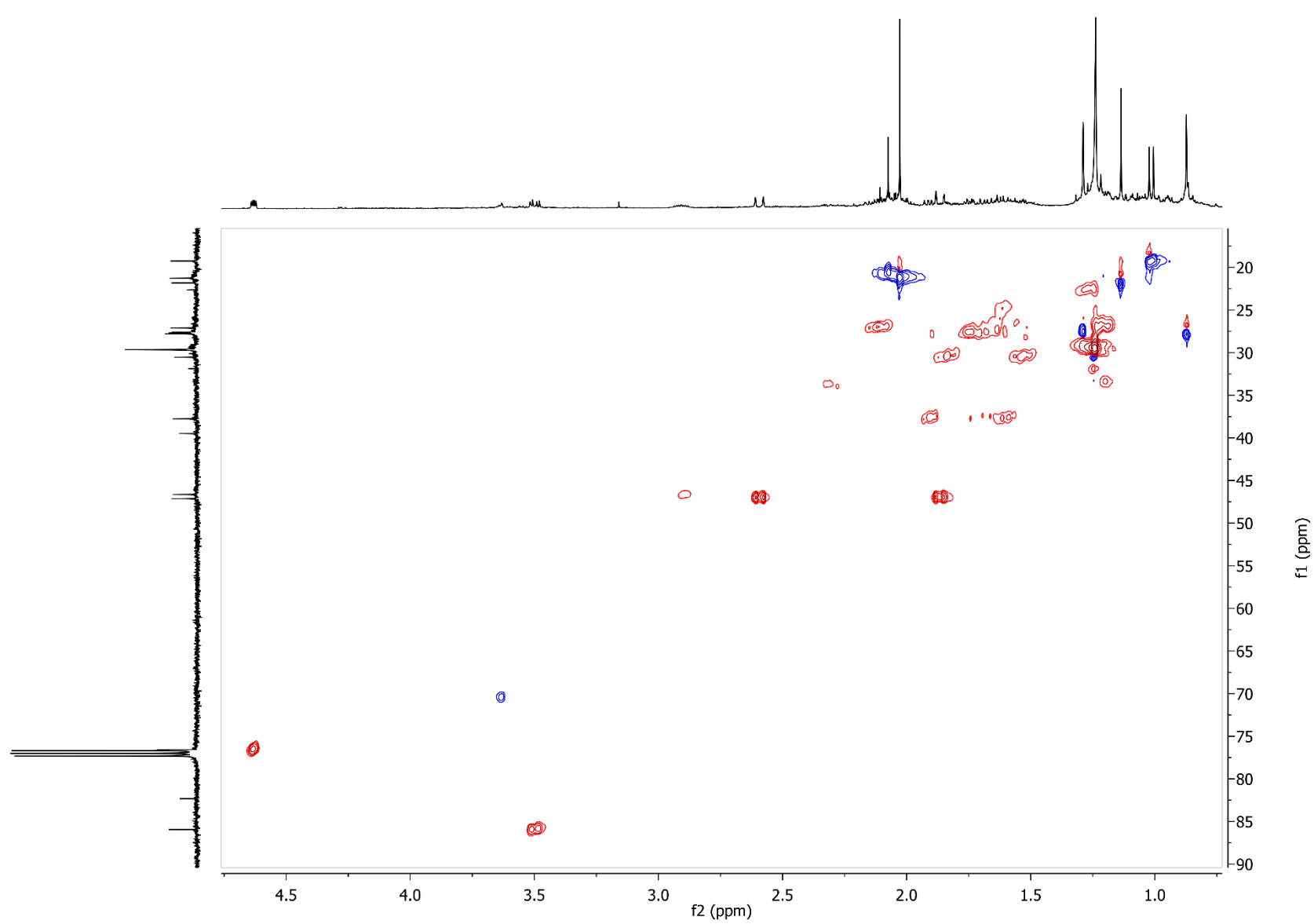


Figure S49. HMBC NMR (400 MHz, CDCl₃) spectrum of acetylated **3**

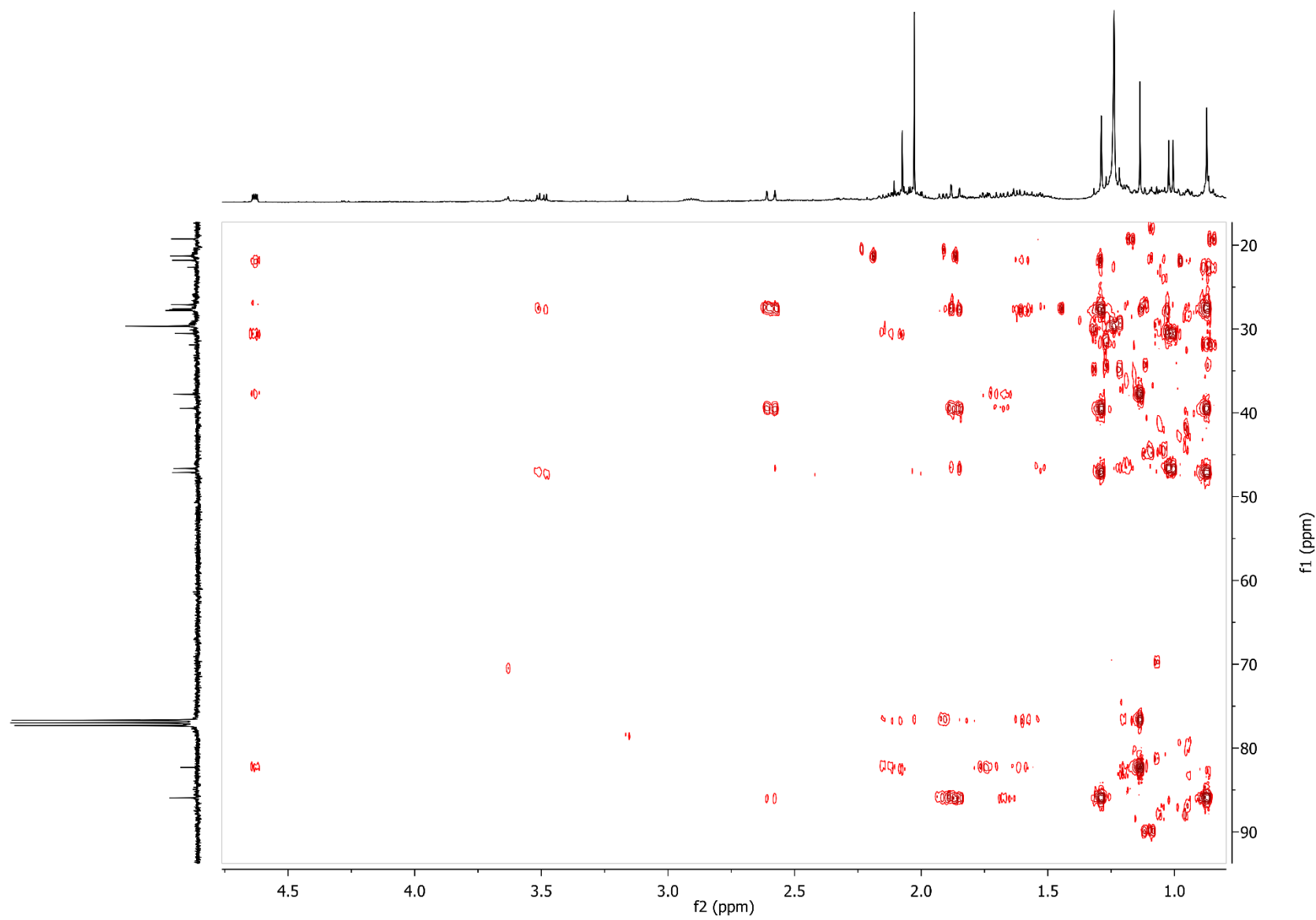


Figure S50. HMBC NMR (400 MHz, CDCl₃) extension spectrum of acetylated **3**

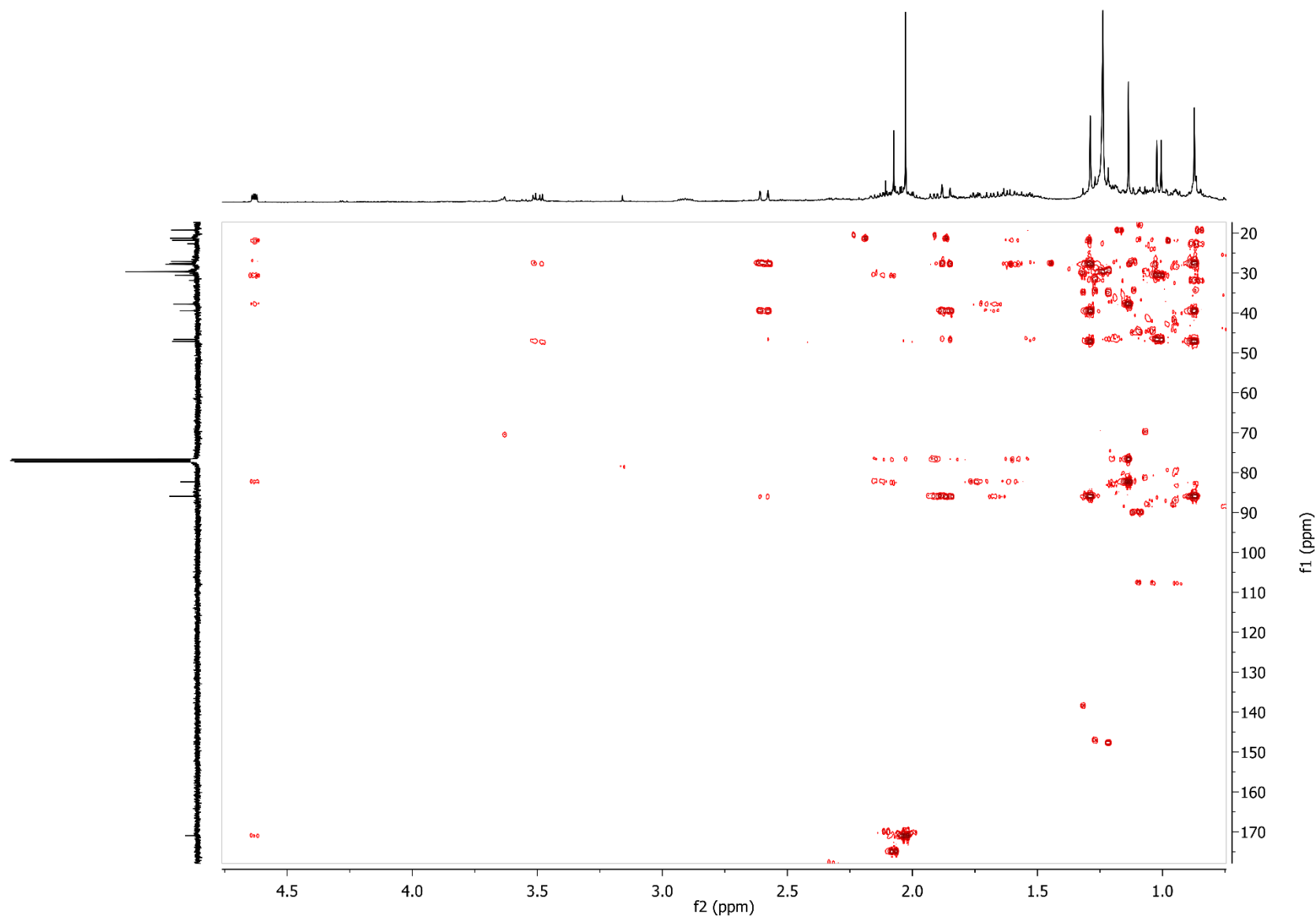


Figure S51. ^1H - ^1H COSY NMR (400 MHz, CDCl_3) spectrum of acetylated **3**

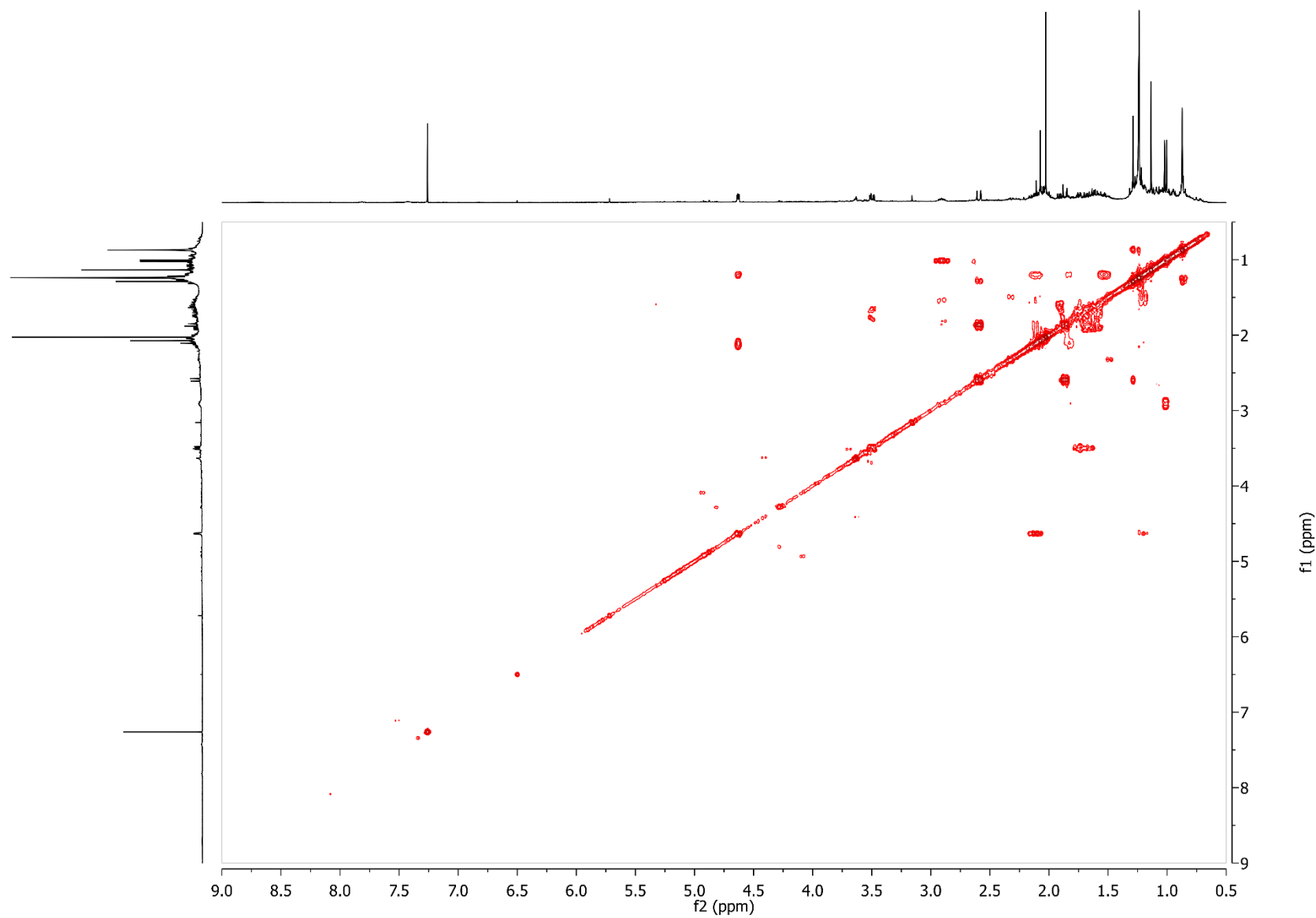


Figure S52. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) spectrum of acetylated **3**

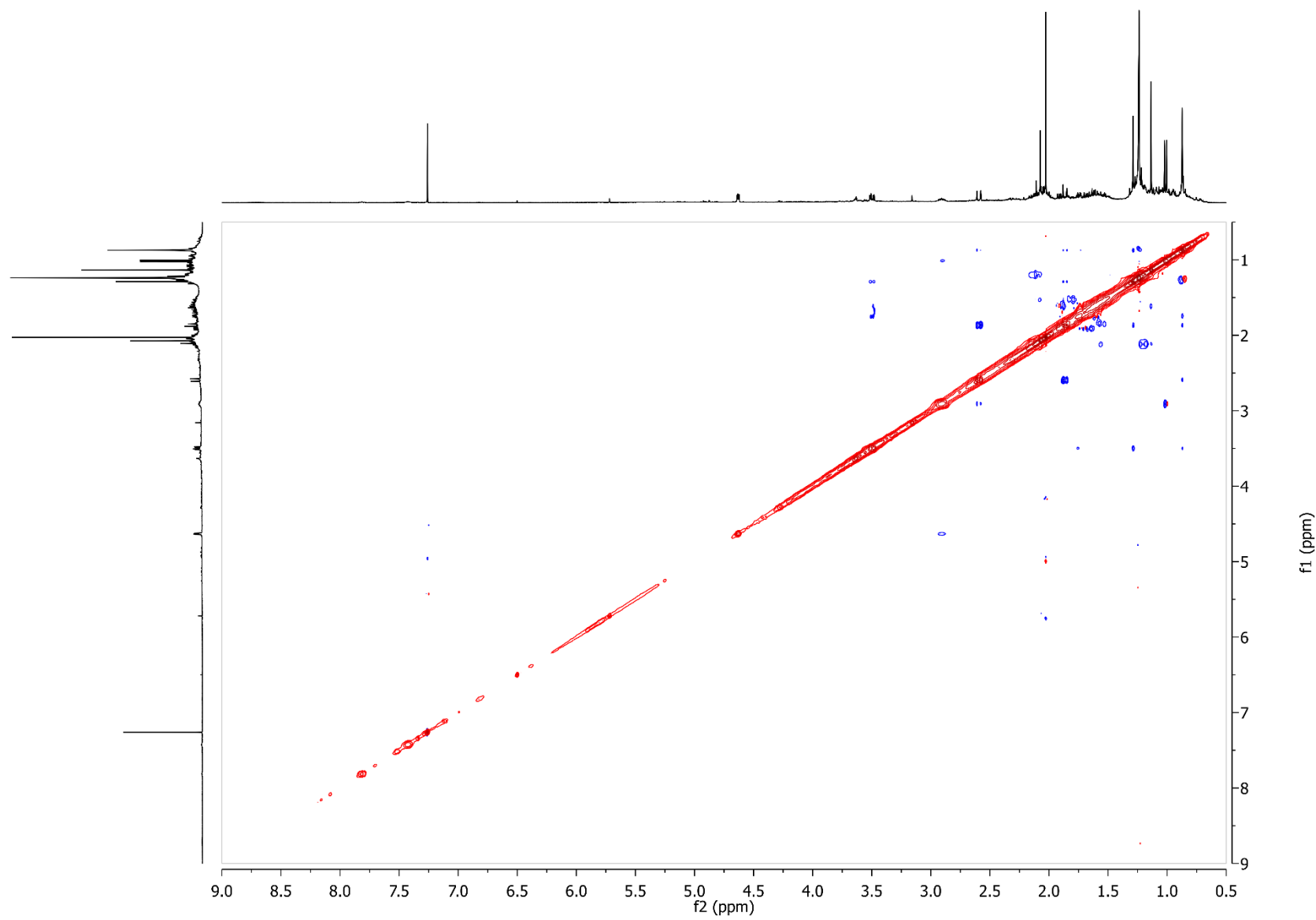


Figure S53. ^1H NMR (400 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of **3**

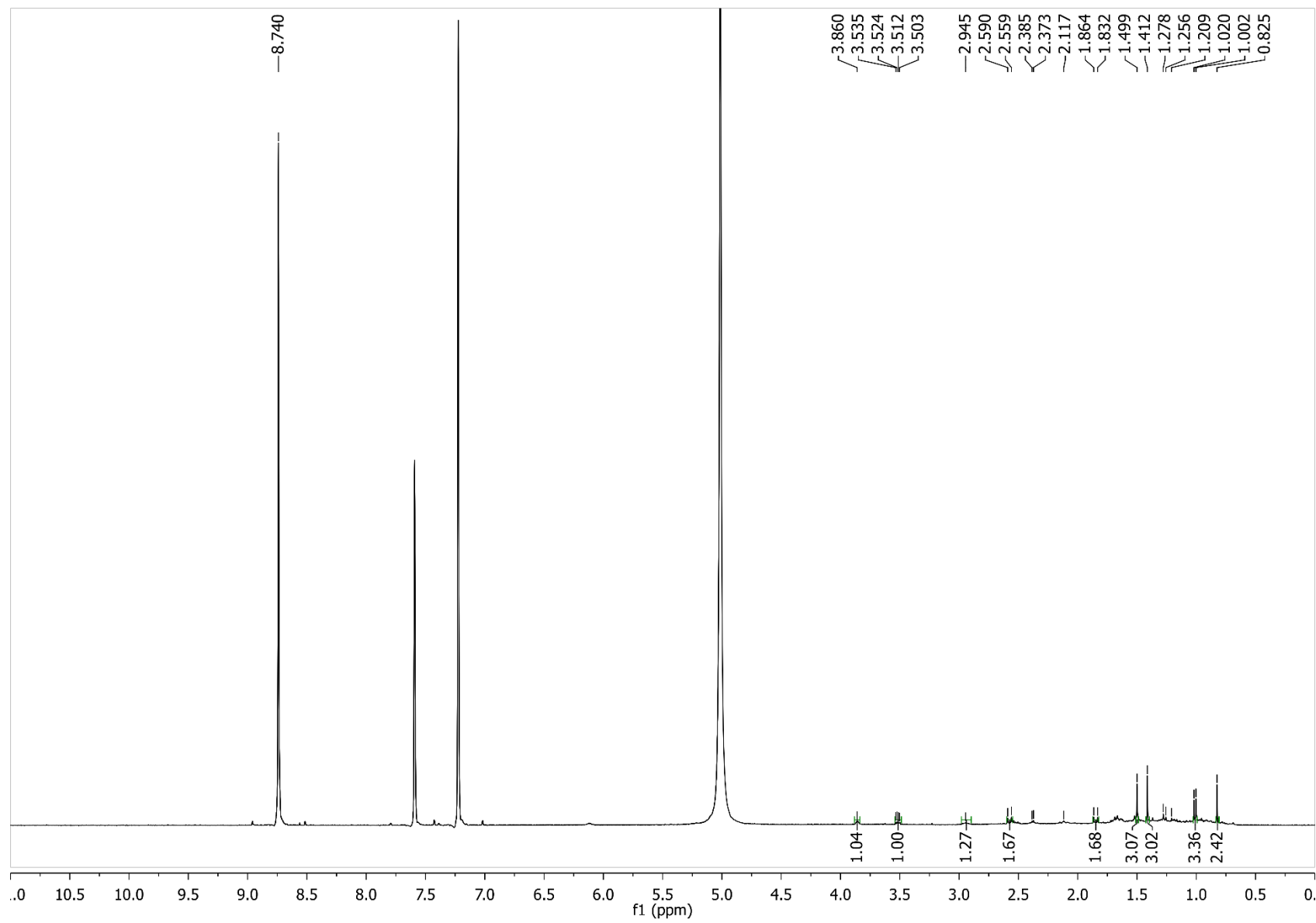


Figure S54. ^1H NMR (400 MHz, $\text{C}_5\text{D}_5\text{N}$) extension spectrum of **3**

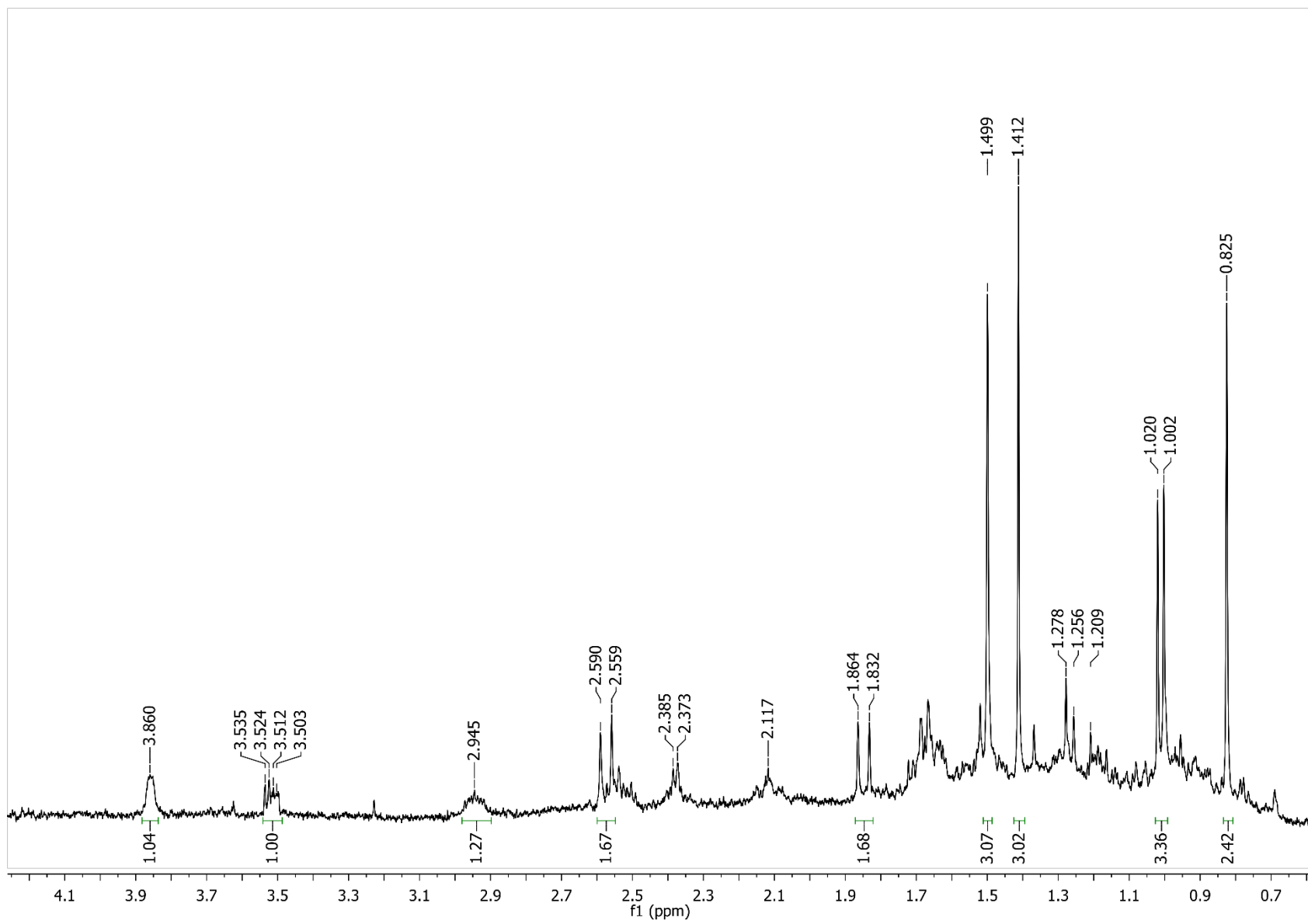


Figure S55. ^1H - ^1H NOESY NMR (400 MHz, $\text{C}_5\text{D}_5\text{N}$) spectrum of acetylated **3**

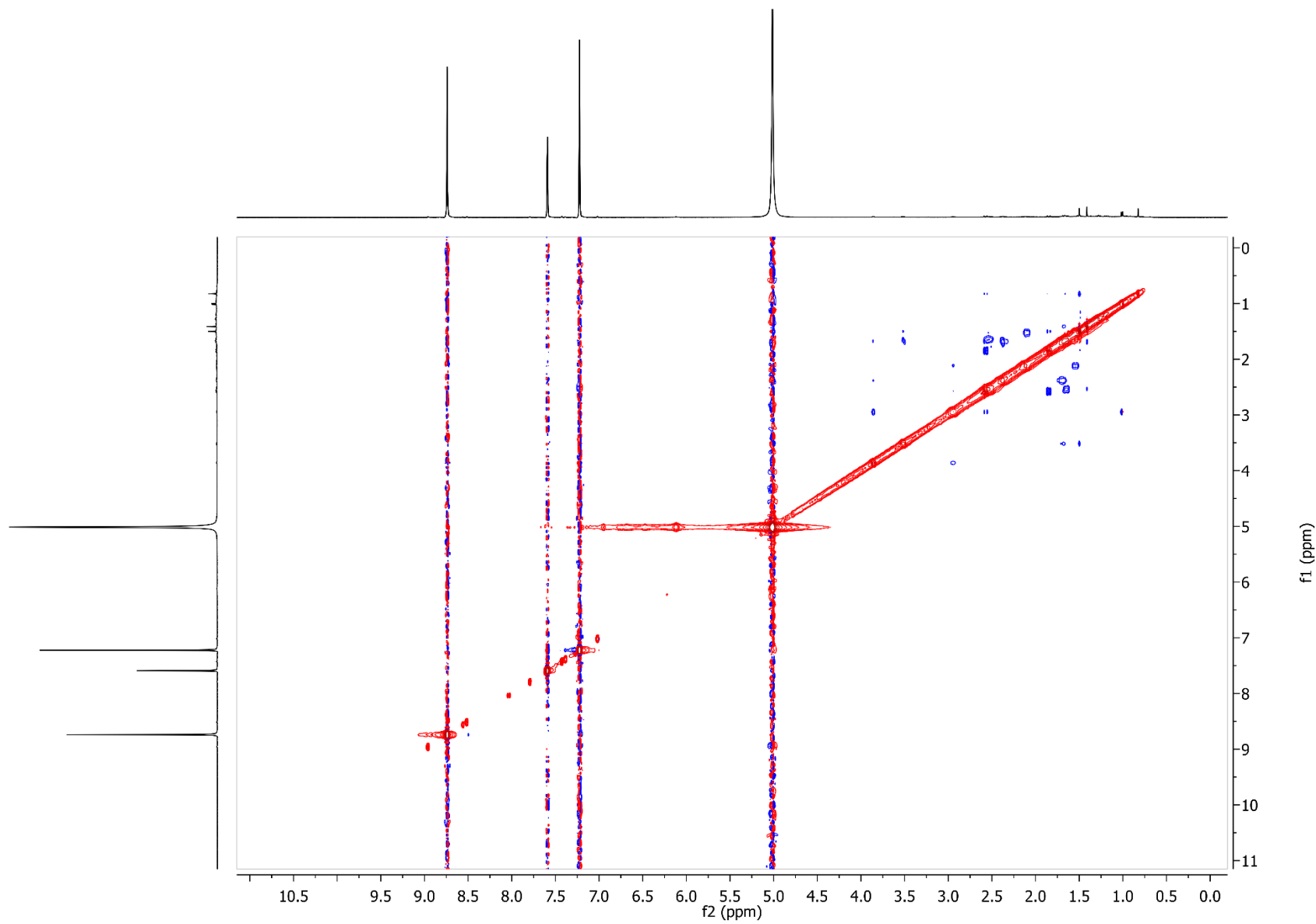


Figure S56. ^1H - ^1H NOESY NMR (400 MHz, $\text{C}_5\text{D}_5\text{N}$) extension spectrum of **3**

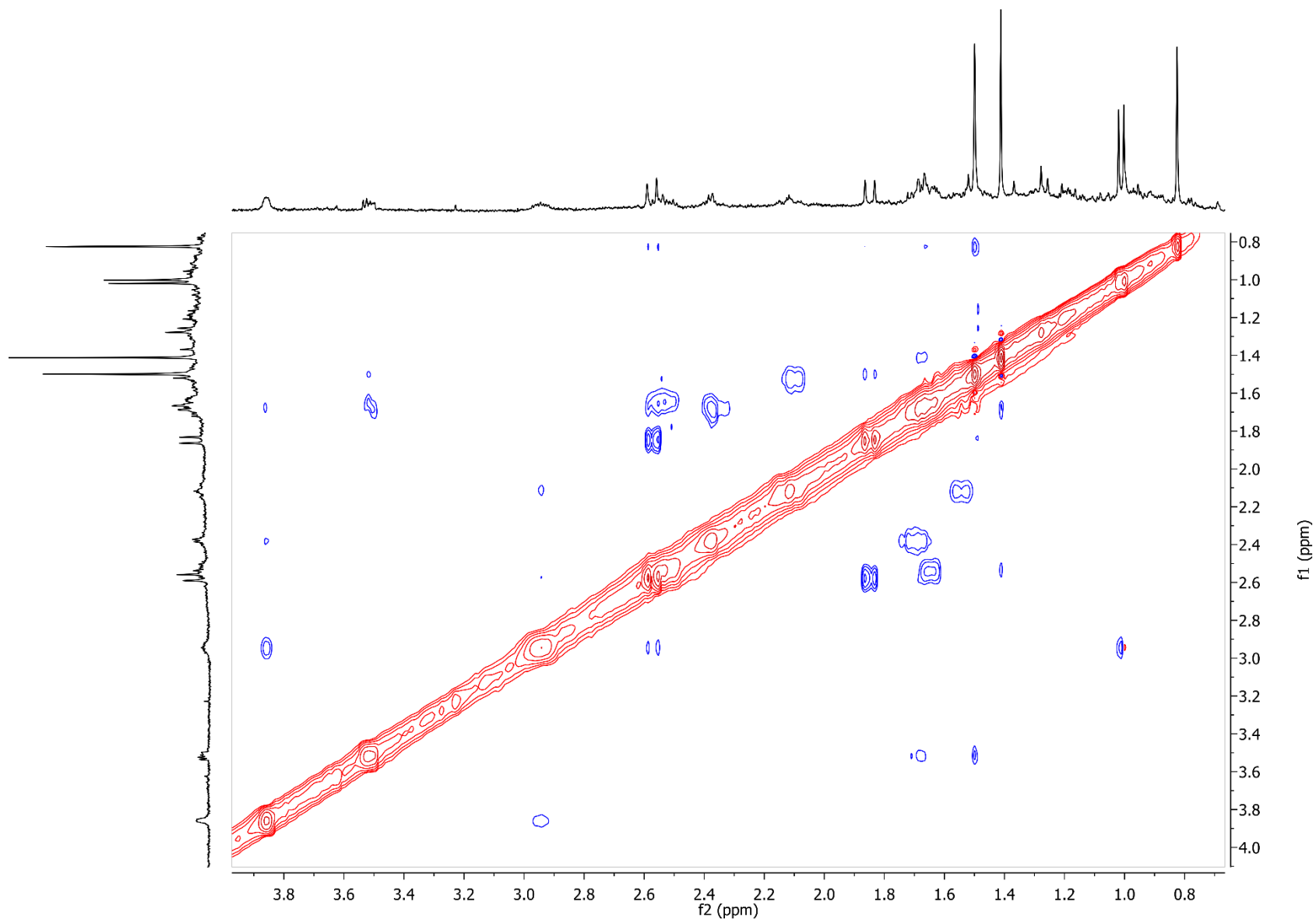


Figure S57. ESIMS/MS spectrum of compound **3** ($[M+H]^+$, positive ion mode)

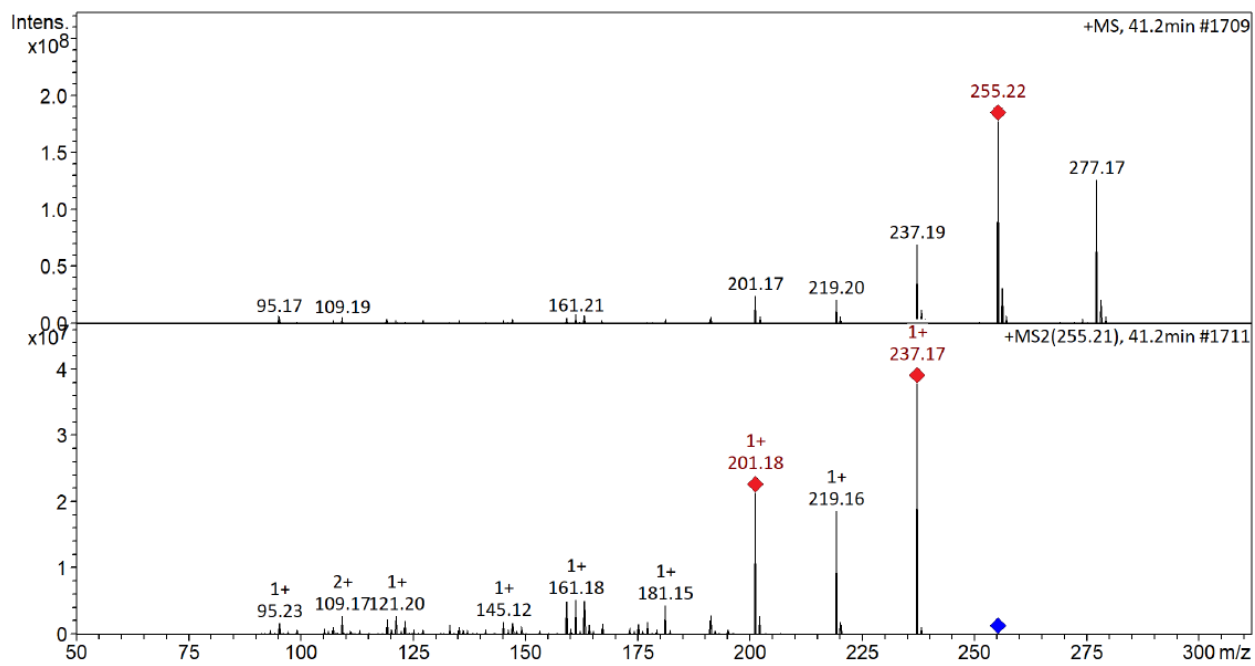


Figure S58. IR spectrum of compound **4**

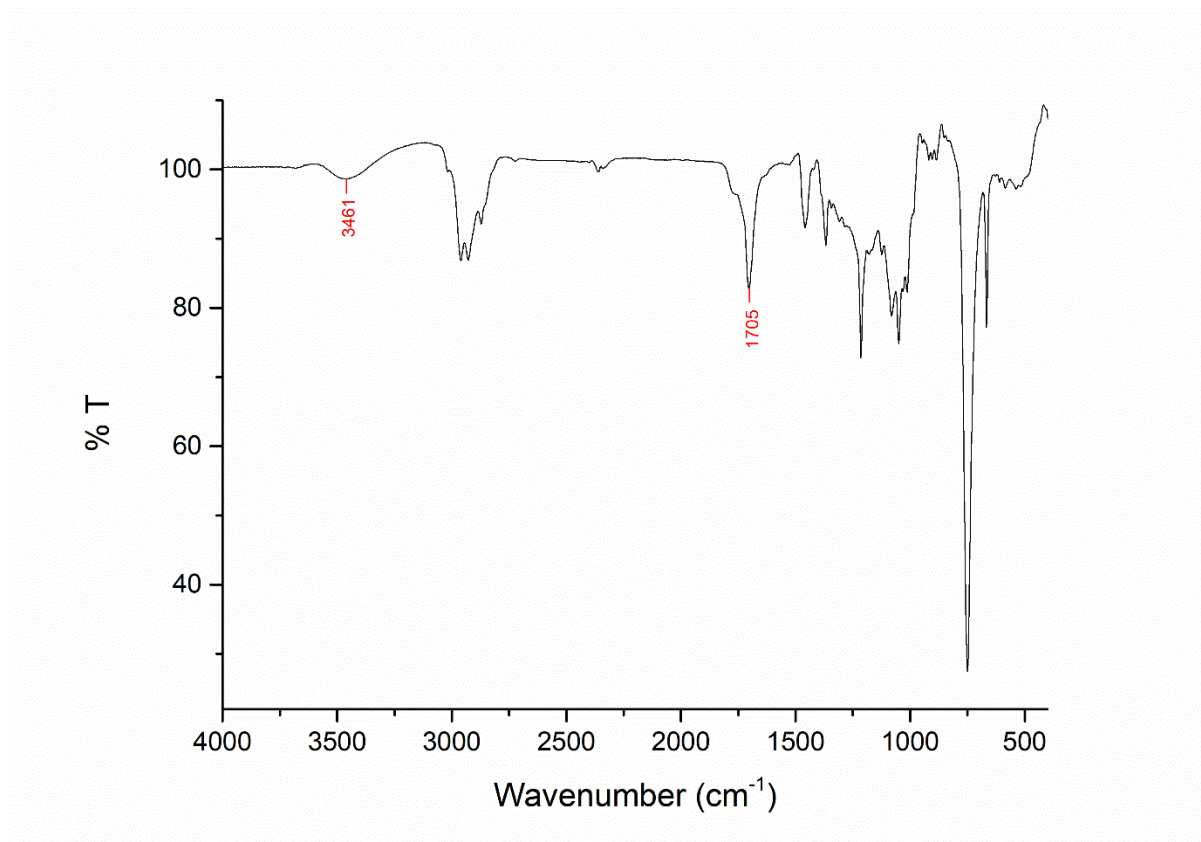


Figure S59. HRESIMS spectrum of compound **4** ([M + Na], positive ion mode)

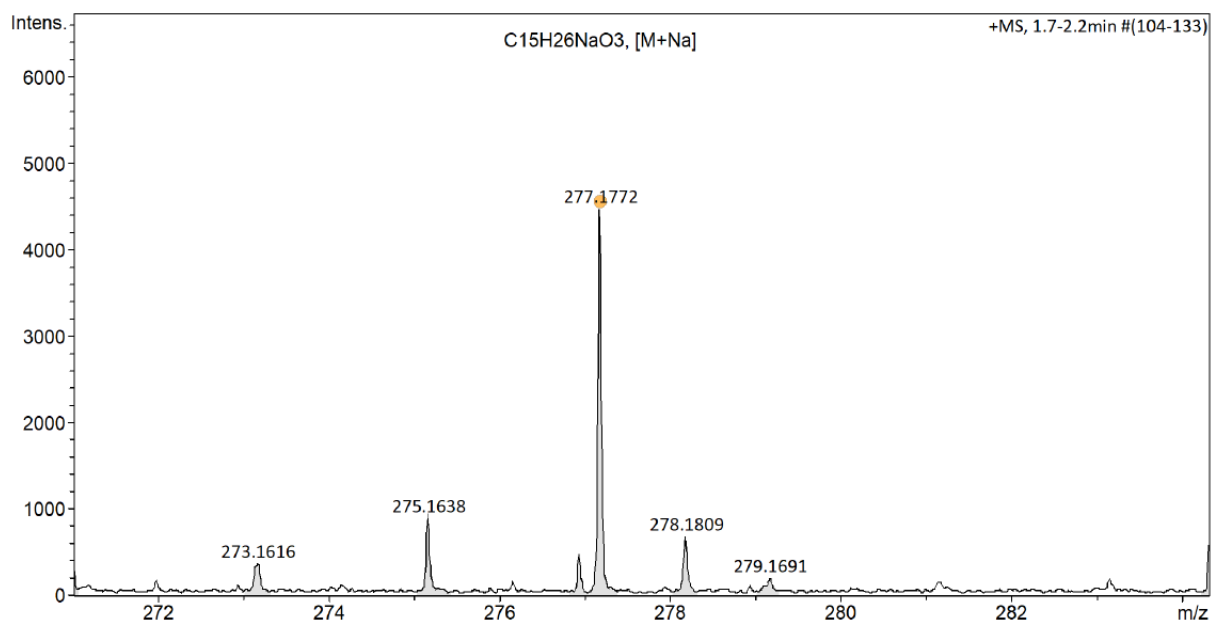


Figure S60. ^1H NMR (400 MHz, CDCl_3) spectrum of **4**

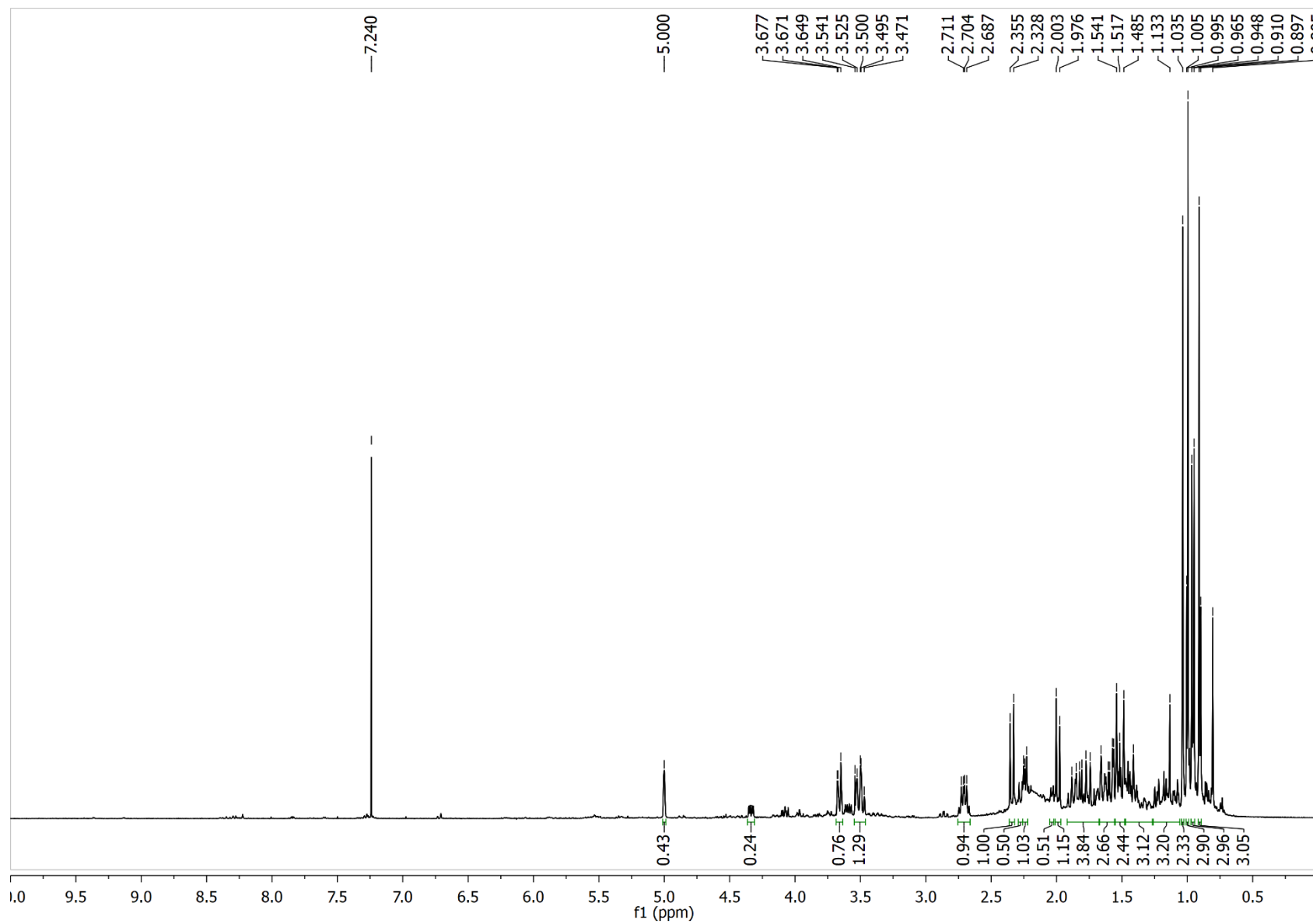


Figure S61. ^1H NMR (400 MHz, CDCl_3) extension spectrum of **4**

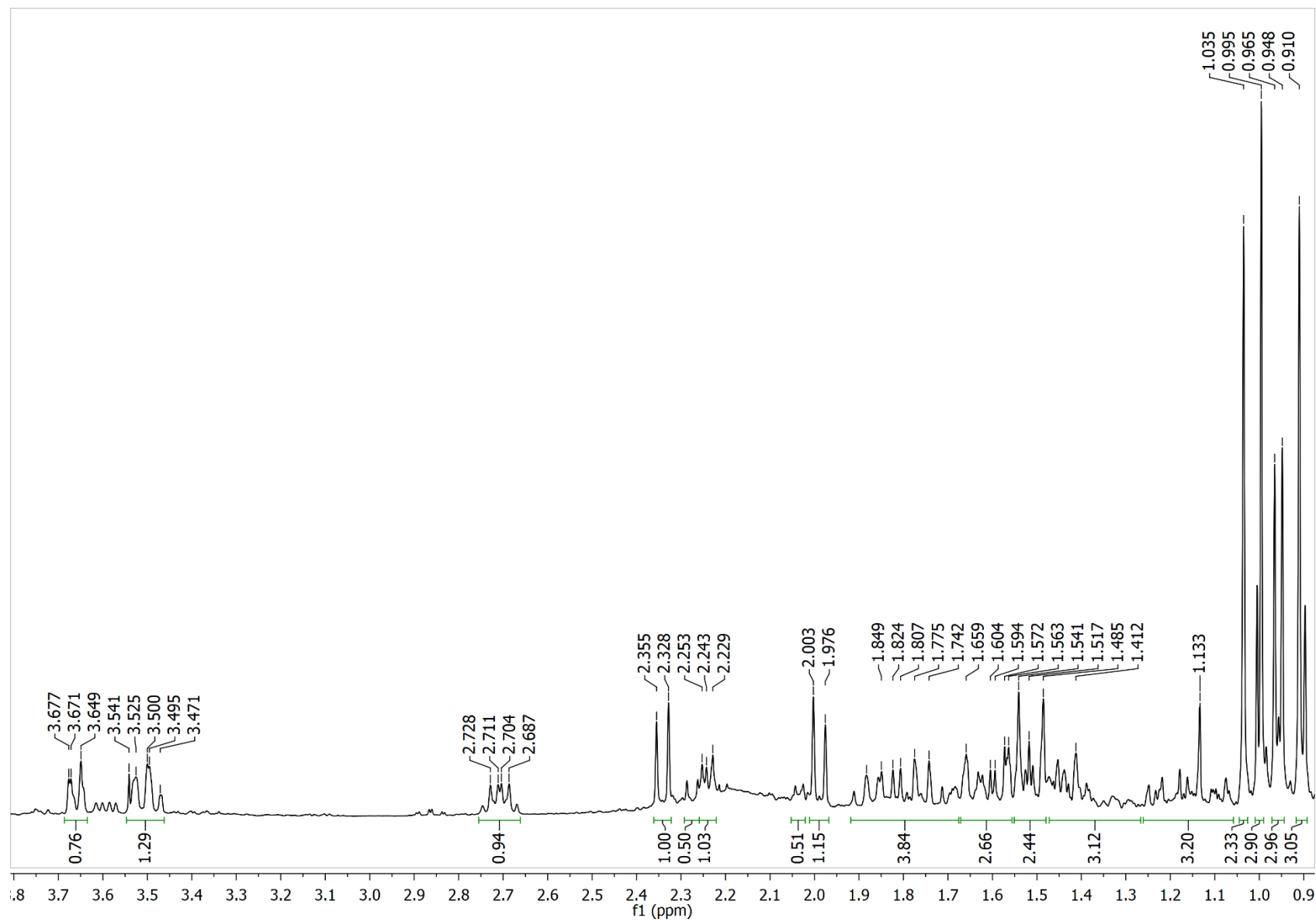


Figure S62. ^{13}C NMR (100 MHz, CDCl_3) spectrum of **4**

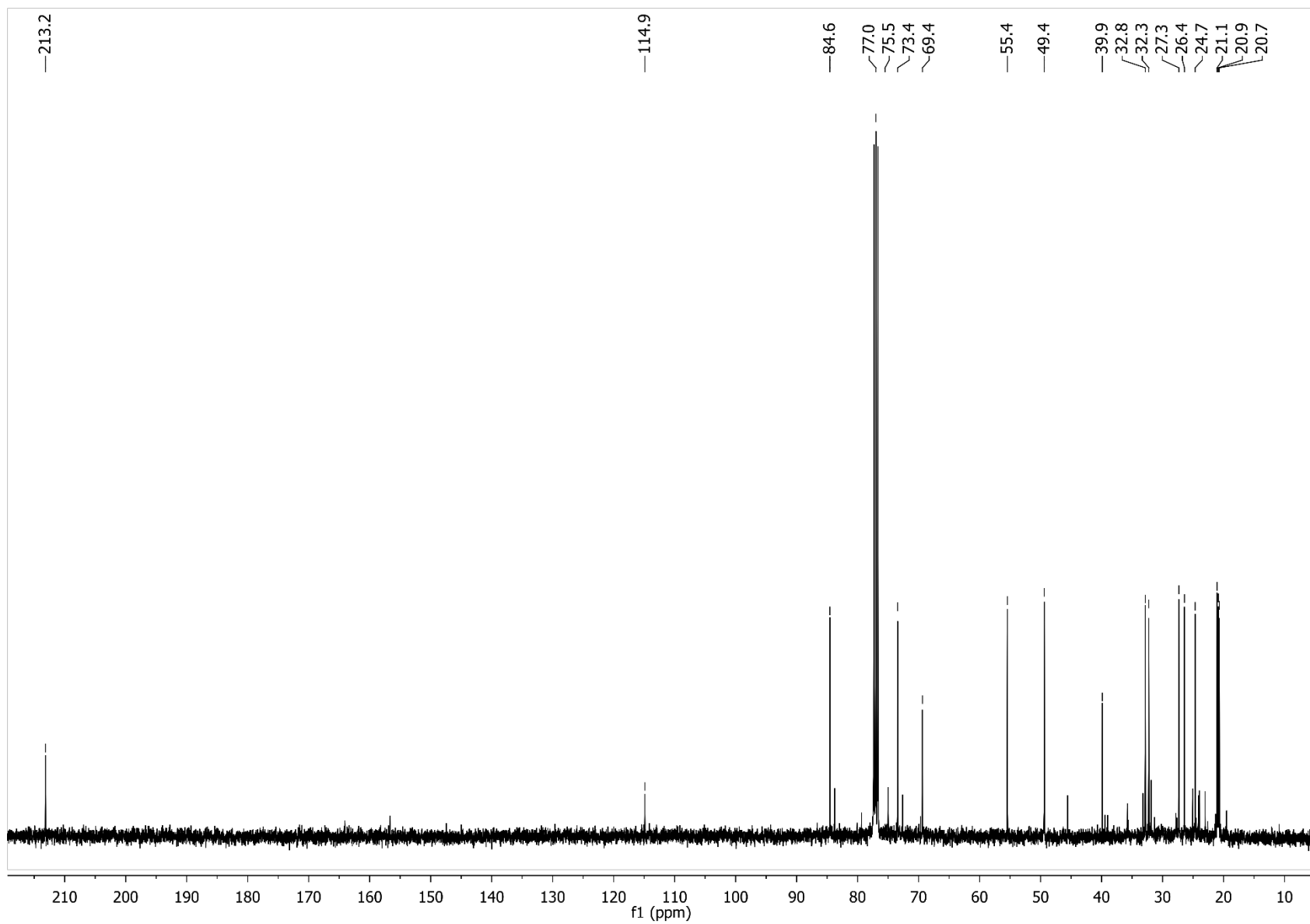


Figure S63. ^{13}C DEPT-135 NMR (100 MHz, CDCl_3) spectrum of **4**

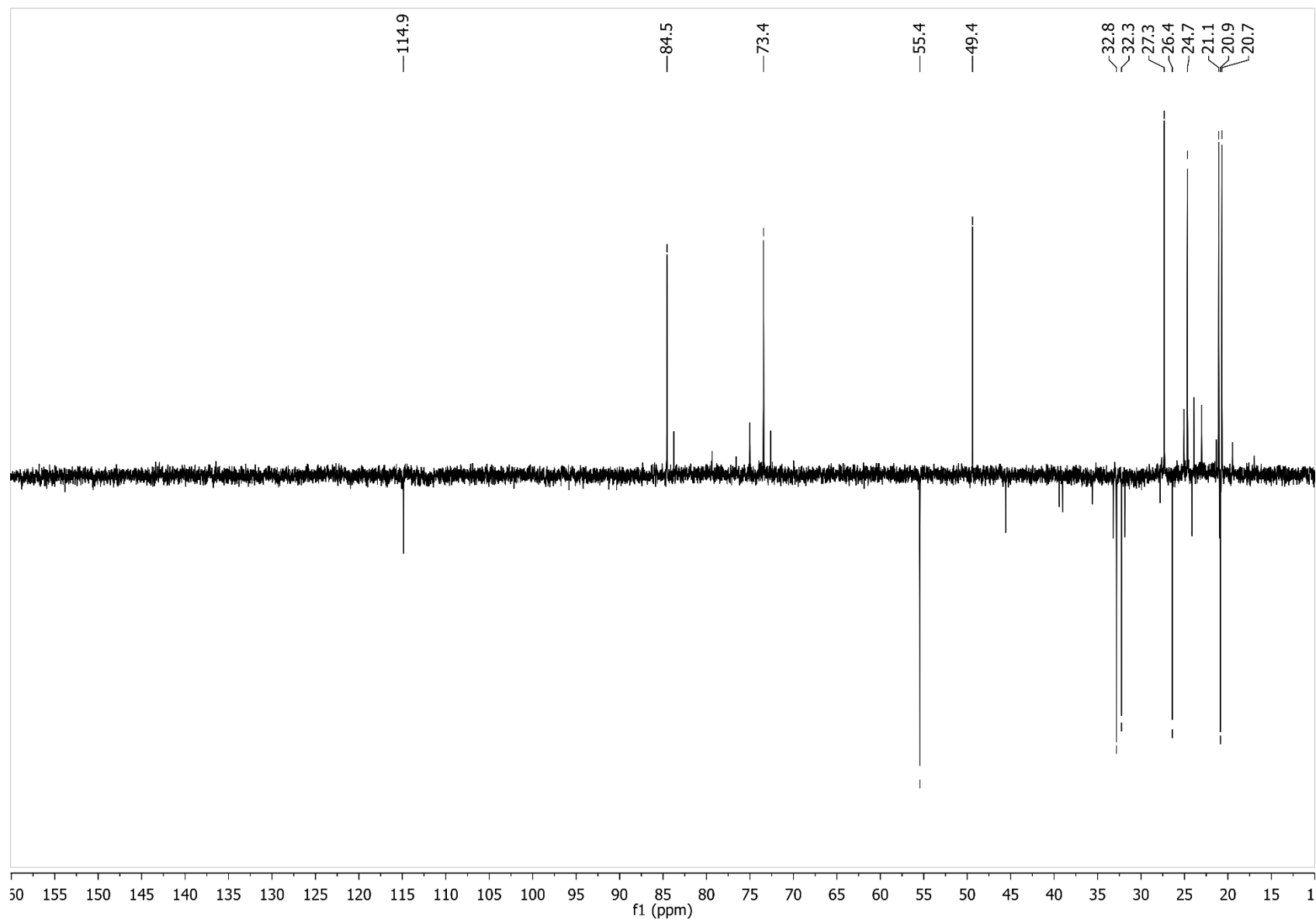


Figure S64. HSQC NMR (400 MHz, CDCl₃) spectrum of **4**

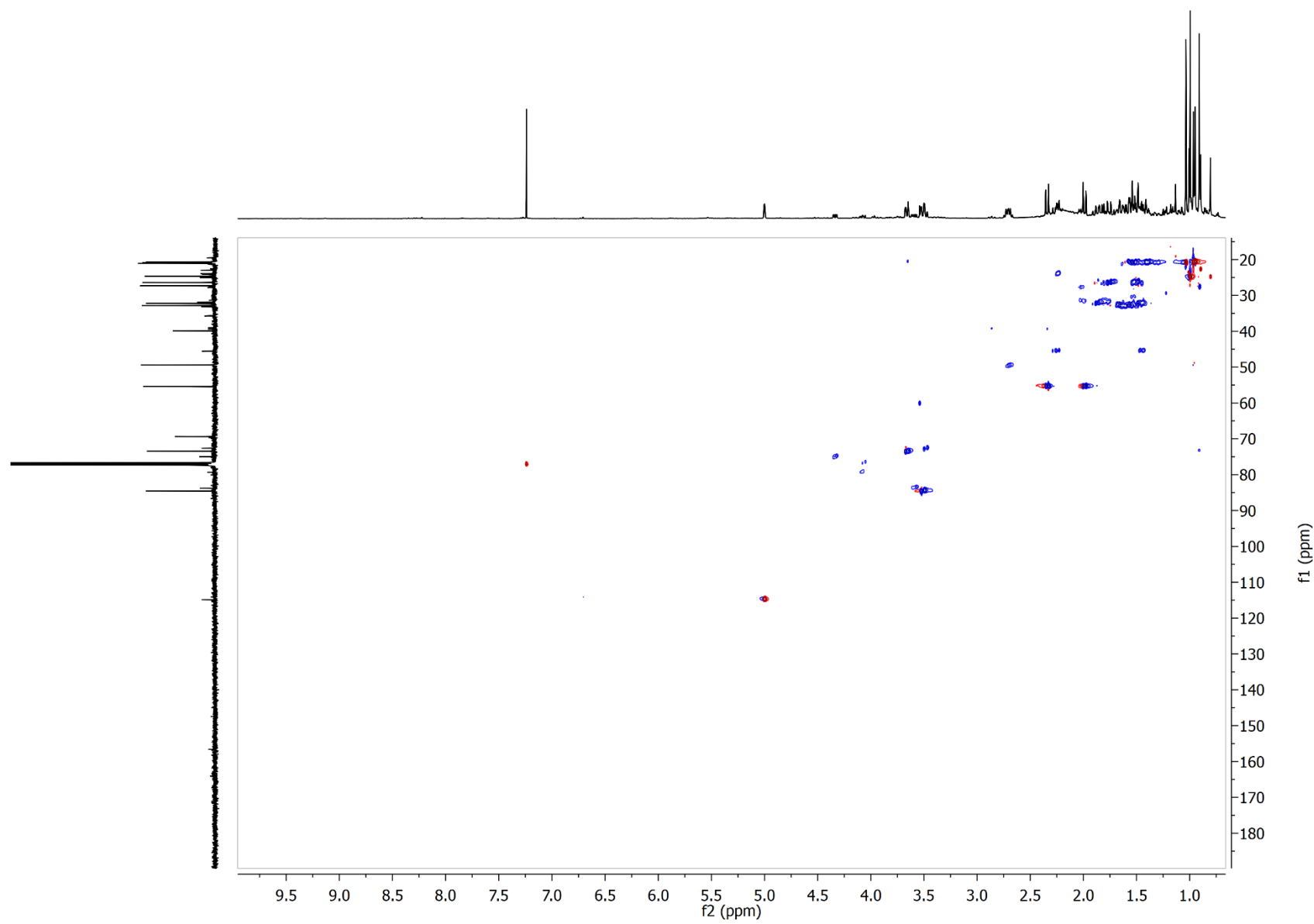


Figure S65. HSQC NMR (400 MHz, CDCl₃) extension spectrum of **4**

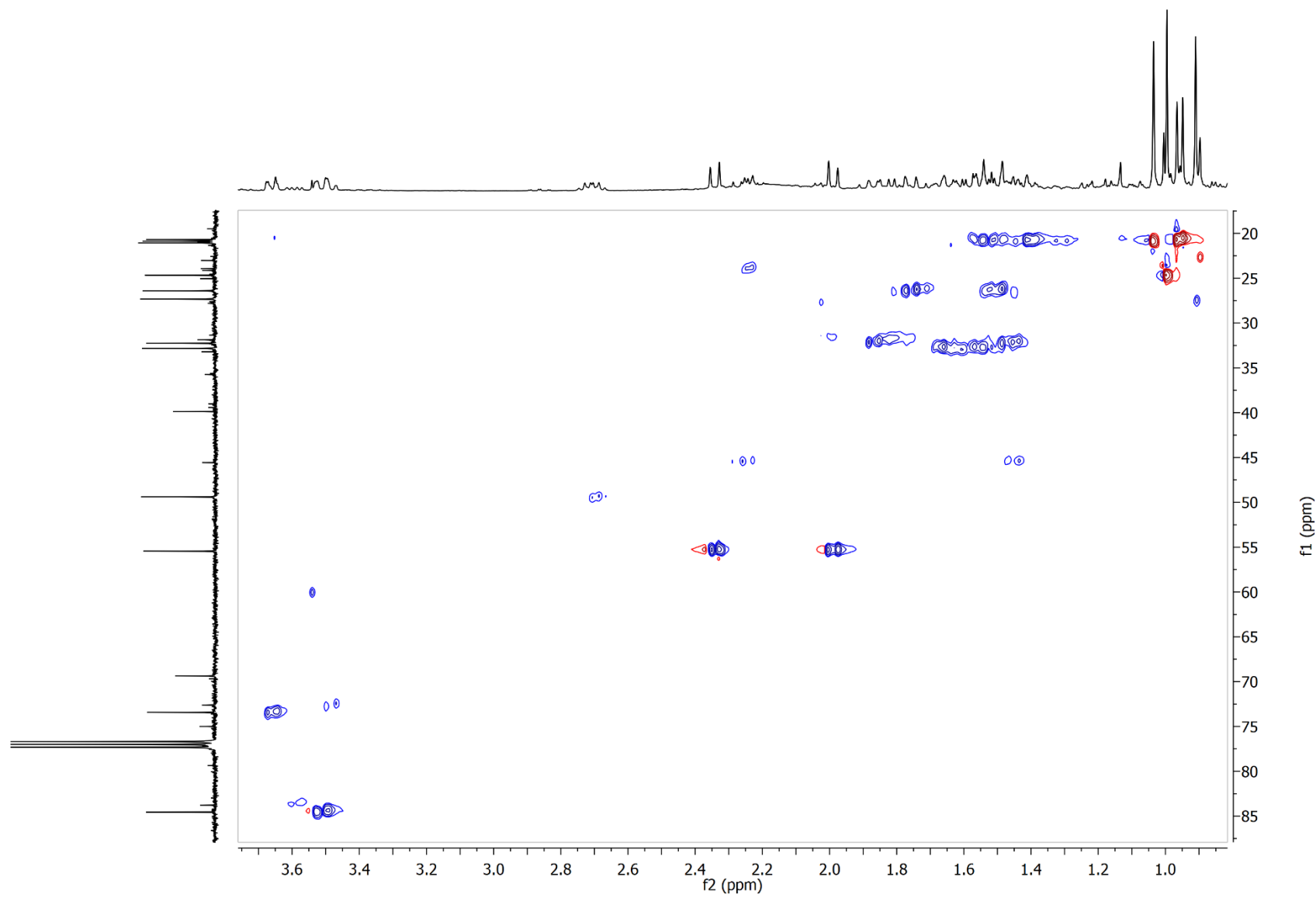


Figure S66. HMBC NMR (400 MHz, CDCl₃) spectrum of **4**

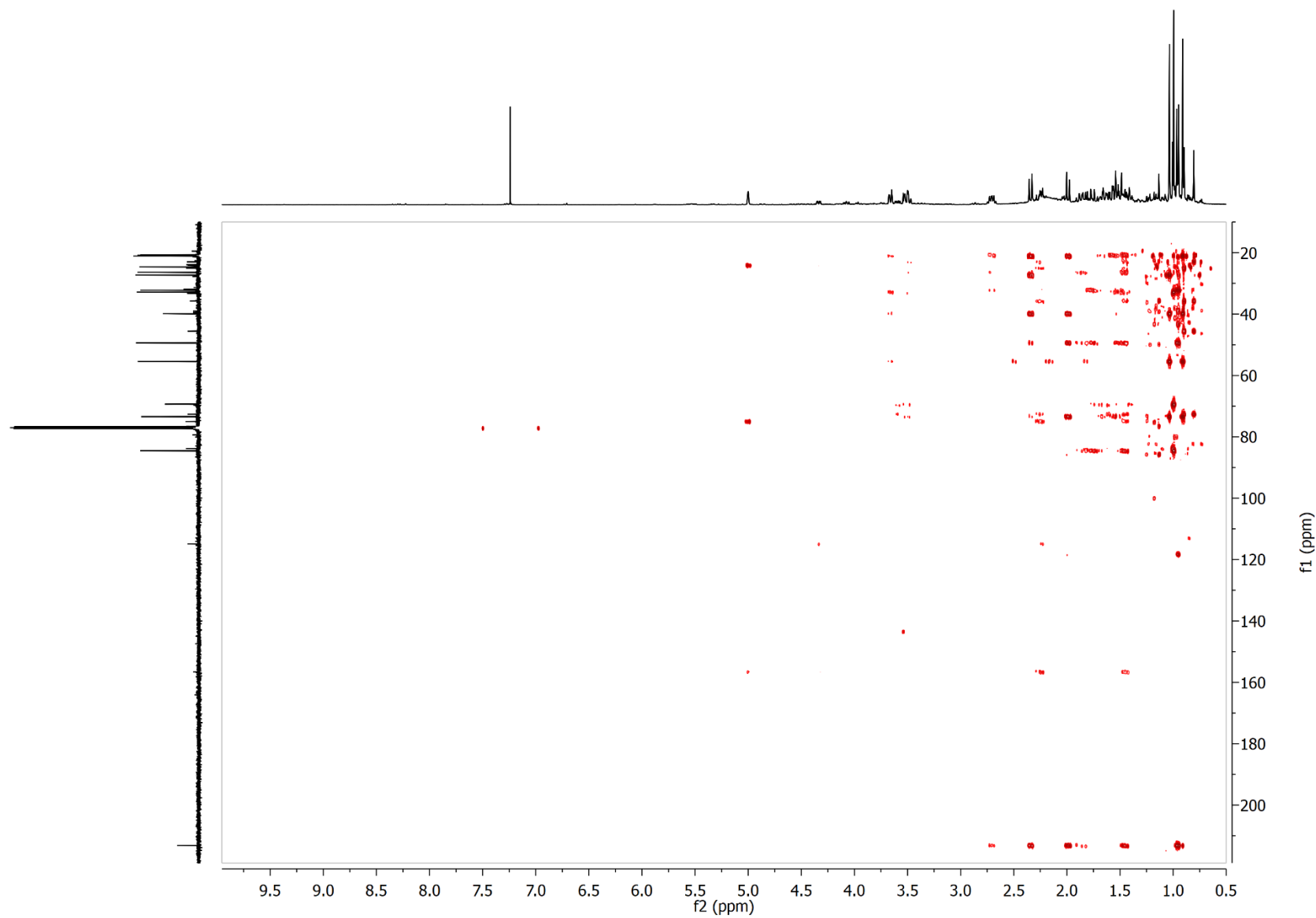


Figure S67. HMBC NMR (400 MHz, CDCl₃) extension spectrum of **4**

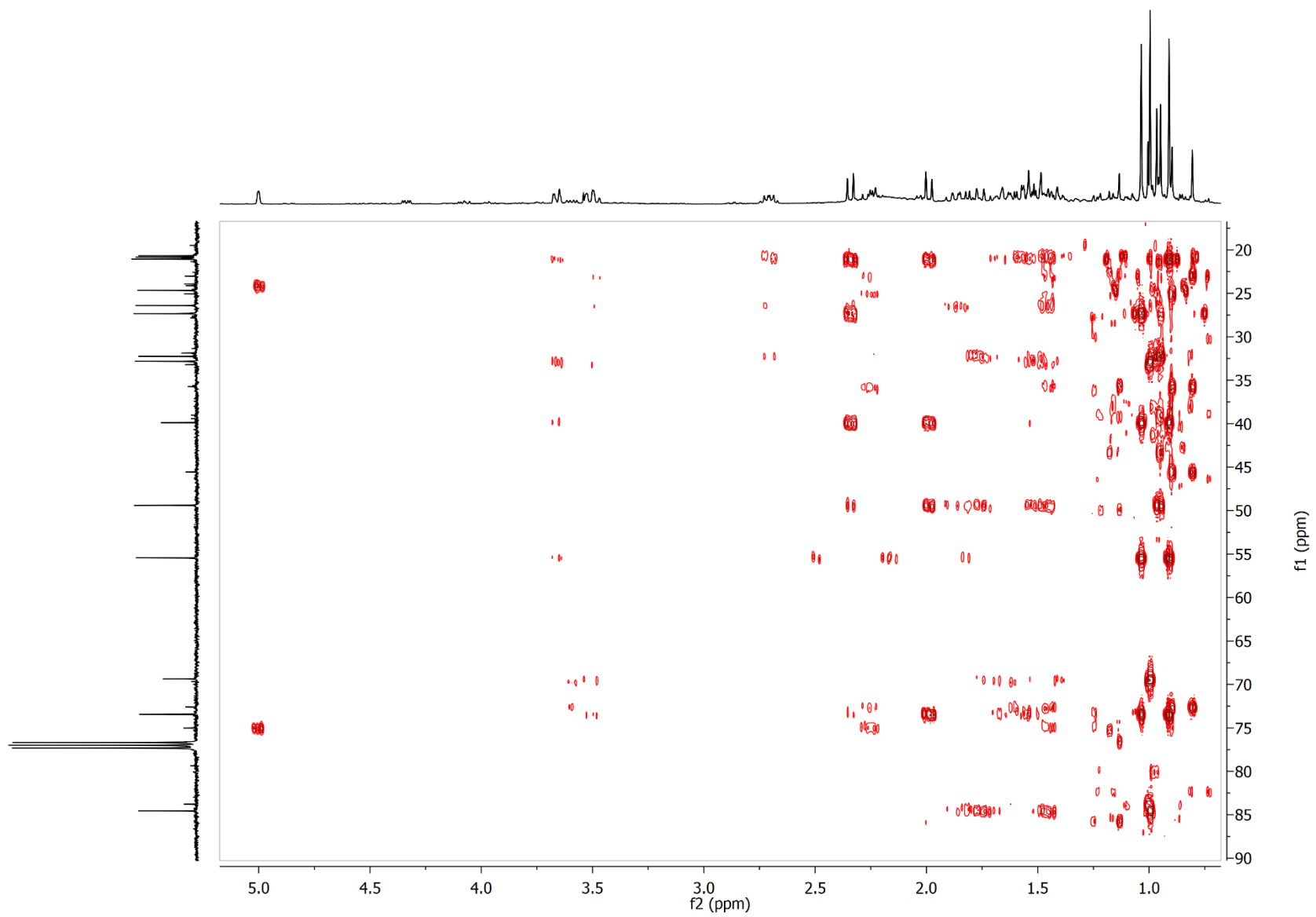


Figure S68. ^1H - ^1H COSY NMR (400 MHz, CDCl_3) spectrum of **4**

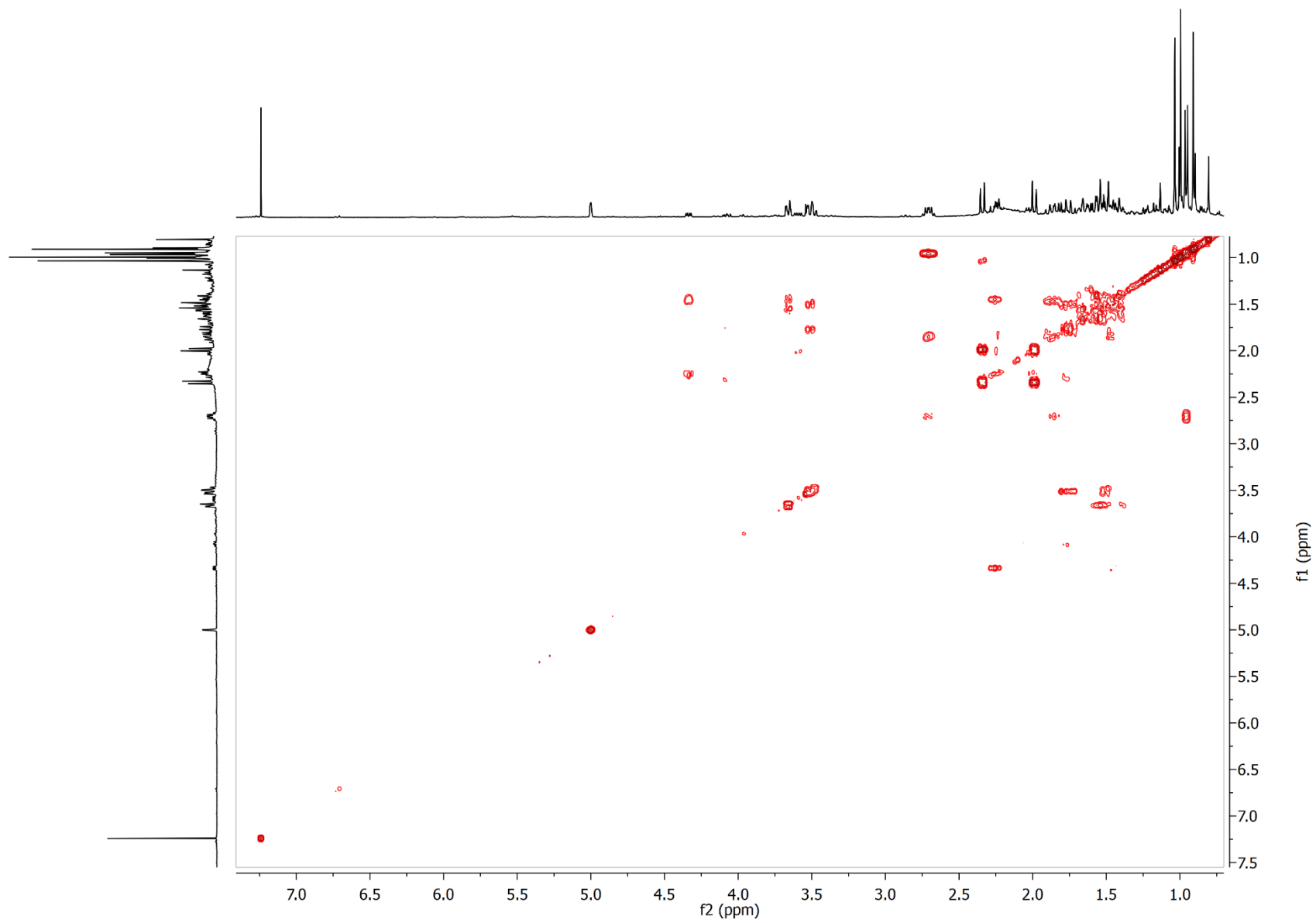


Figure S69. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) spectrum of **4**

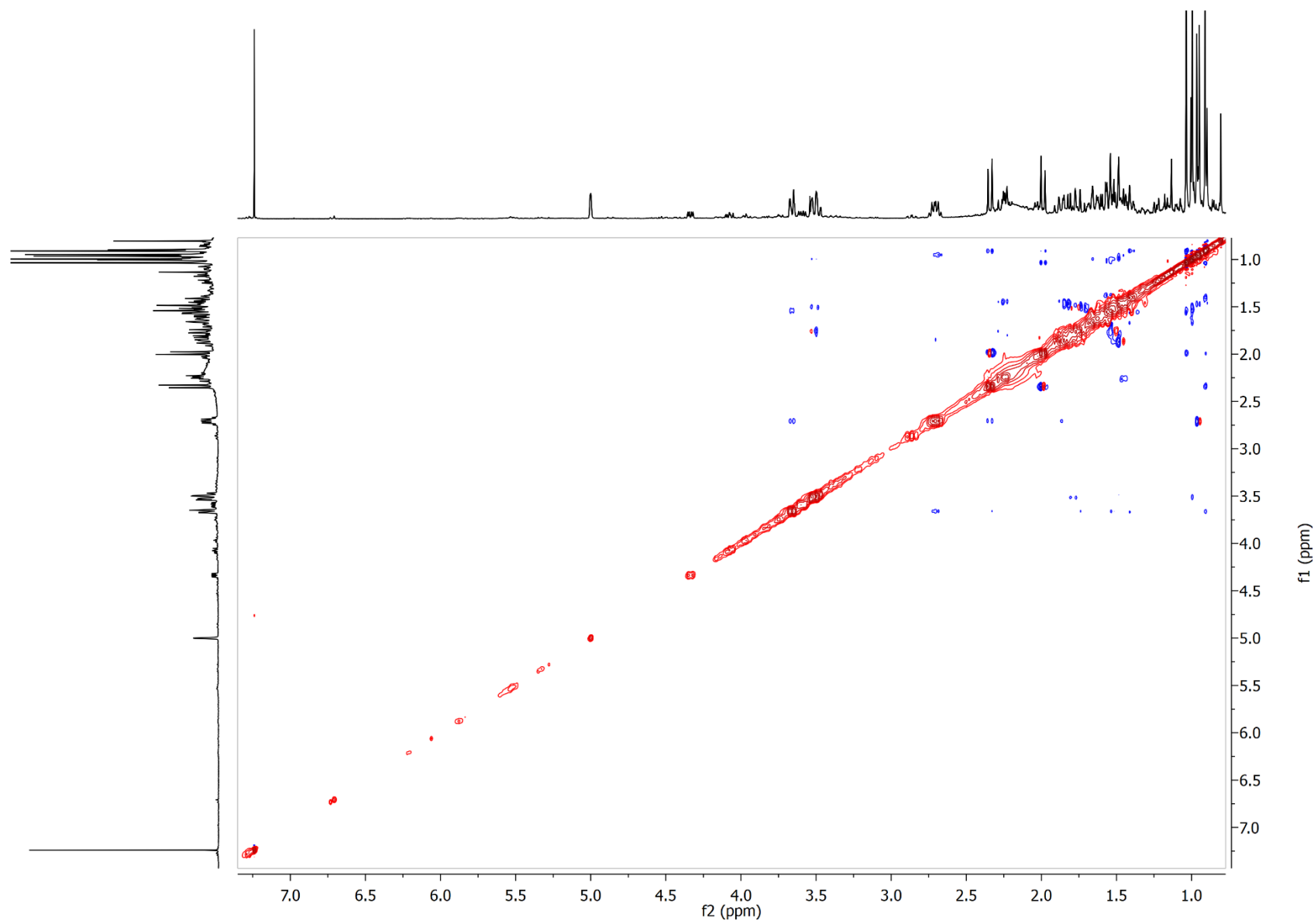


Figure S70. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) extension spectrum of **4**

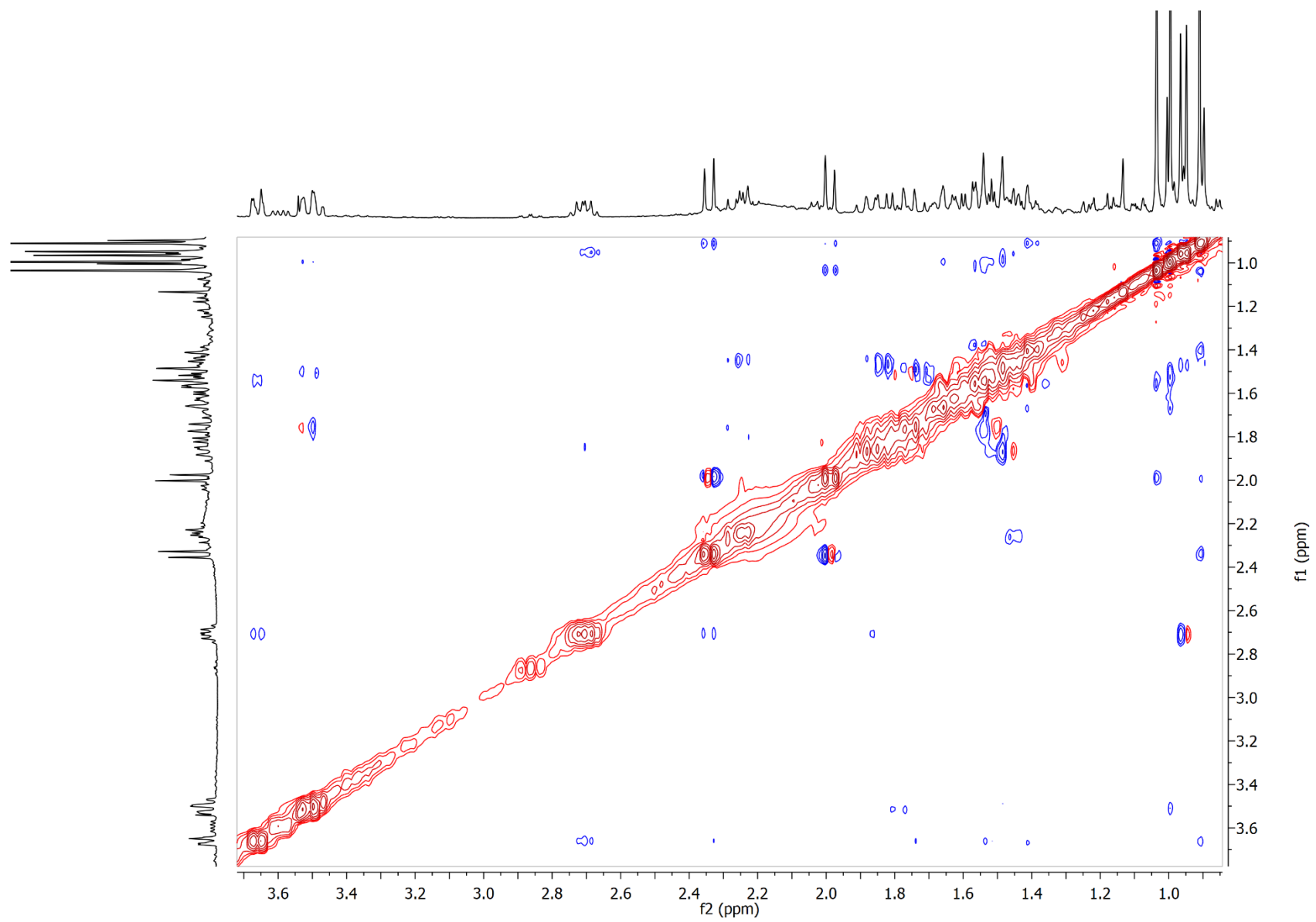


Figure S71. ESIMS/MS spectrum of compound **4** ($[M + H]^+$, positive ion mode)

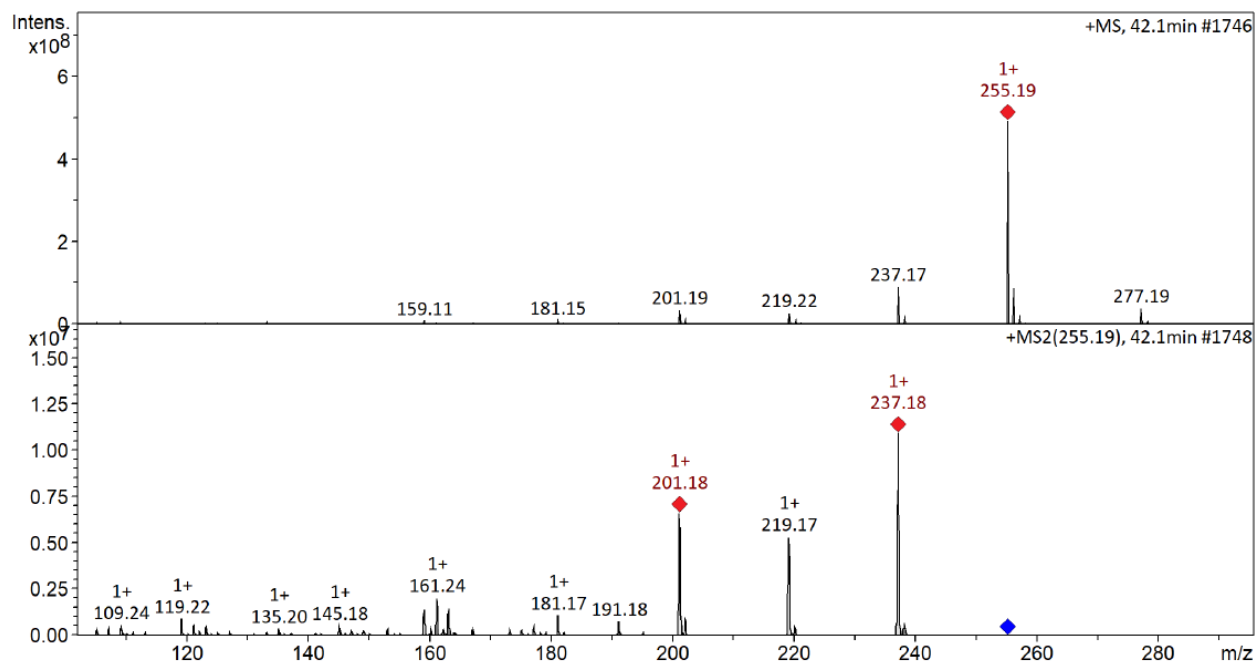


Figure S72. IR spectrum of compound **5**

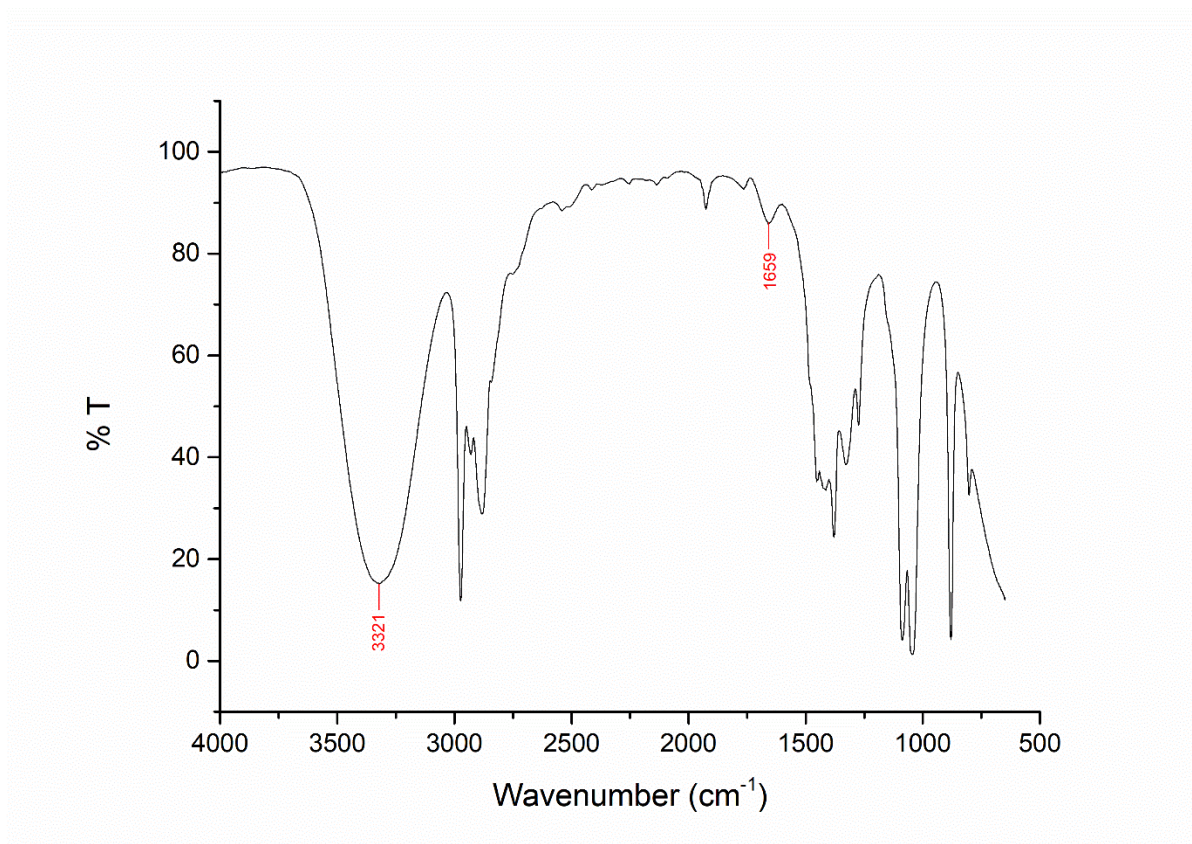


Figure S73. HRESIMS spectrum of compound **5** ([M + Na], positive ion mode)

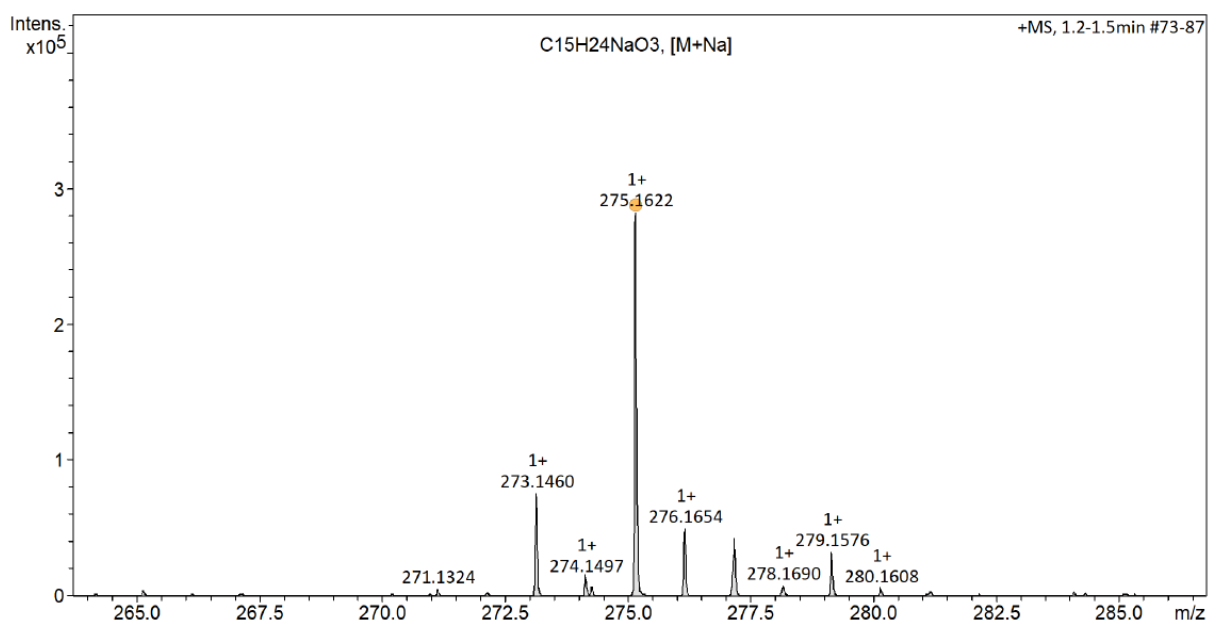


Figure S74. ^1H NMR (400 MHz, CDCl_3) spectrum of **5**

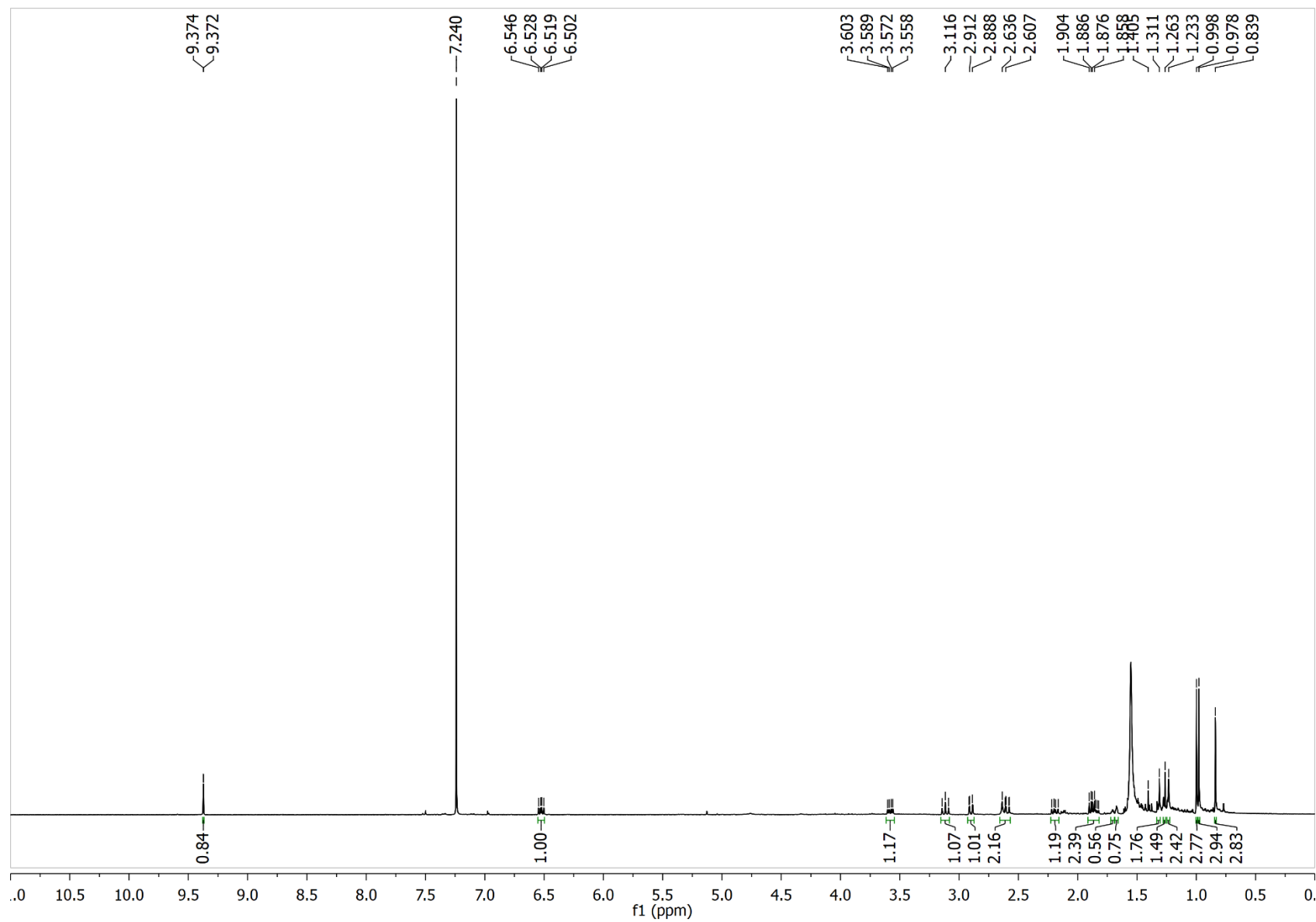


Figure S75. ^1H NMR (400 MHz, CDCl_3) extension spectrum of **5**

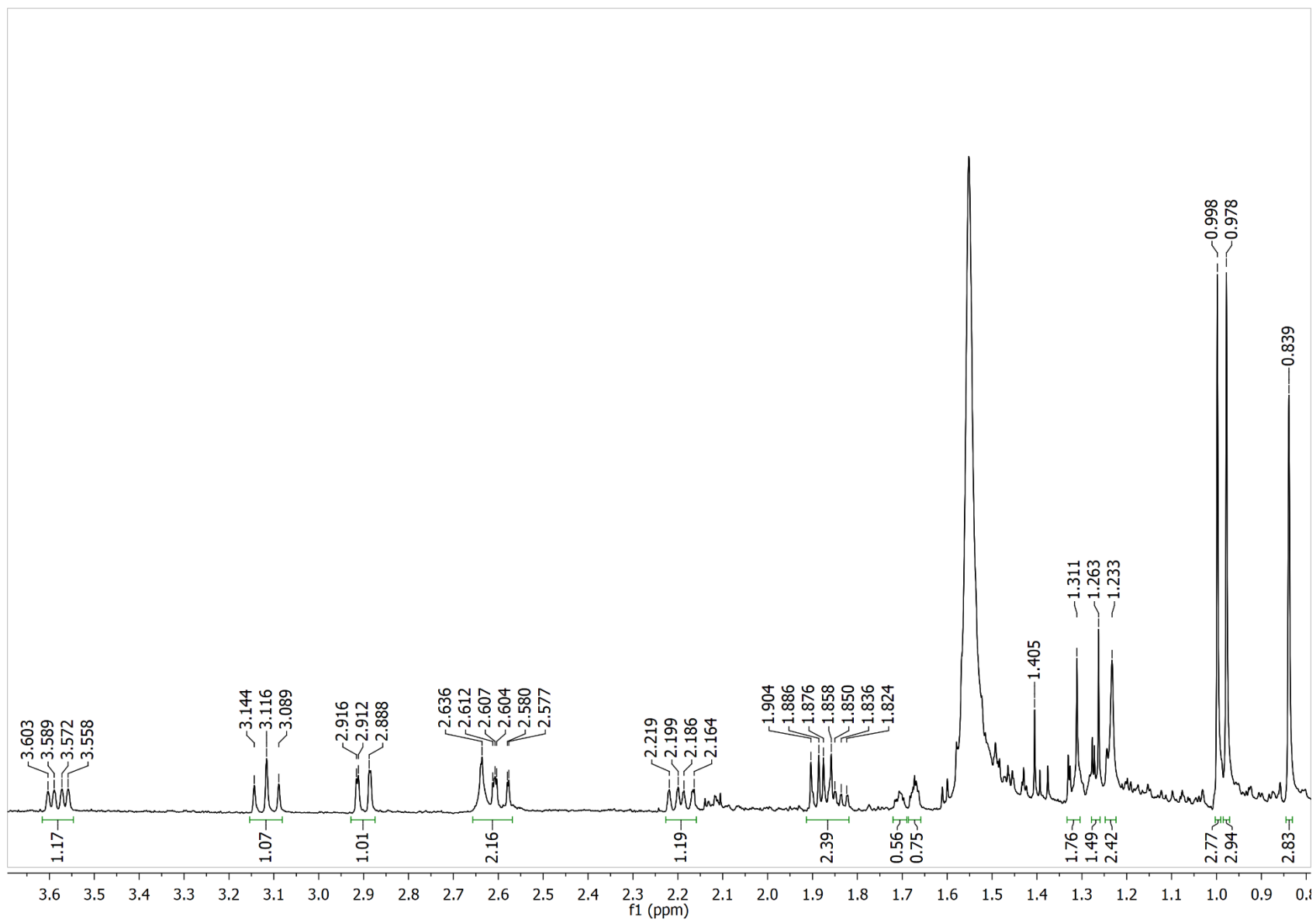


Figure S76. ^{13}C NMR (100 MHz, CDCl_3) spectrum of **5**

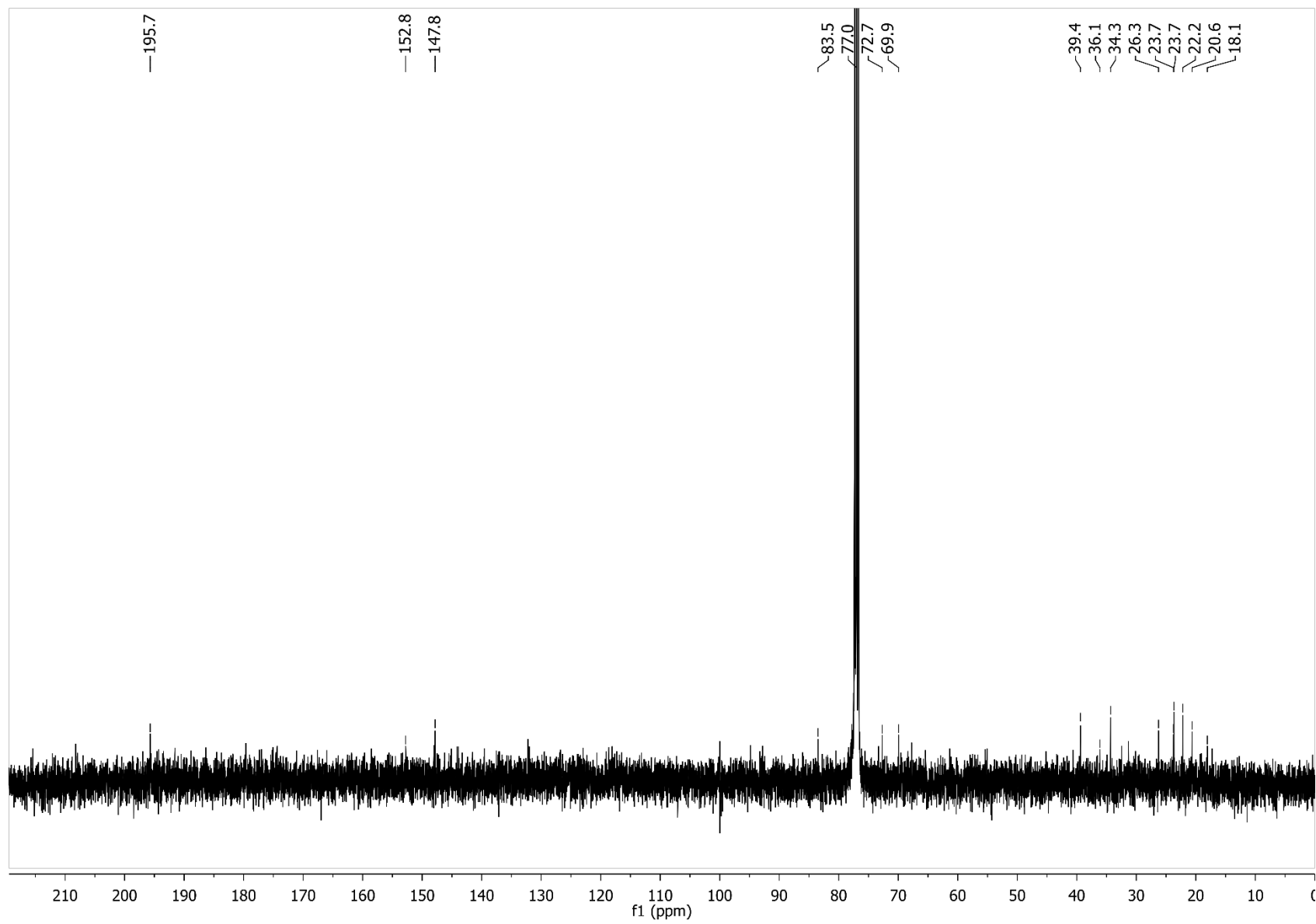


Figure S77. ^{13}C DEPT-135 NMR (100 MHz, CDCl_3) spectrum of **5**

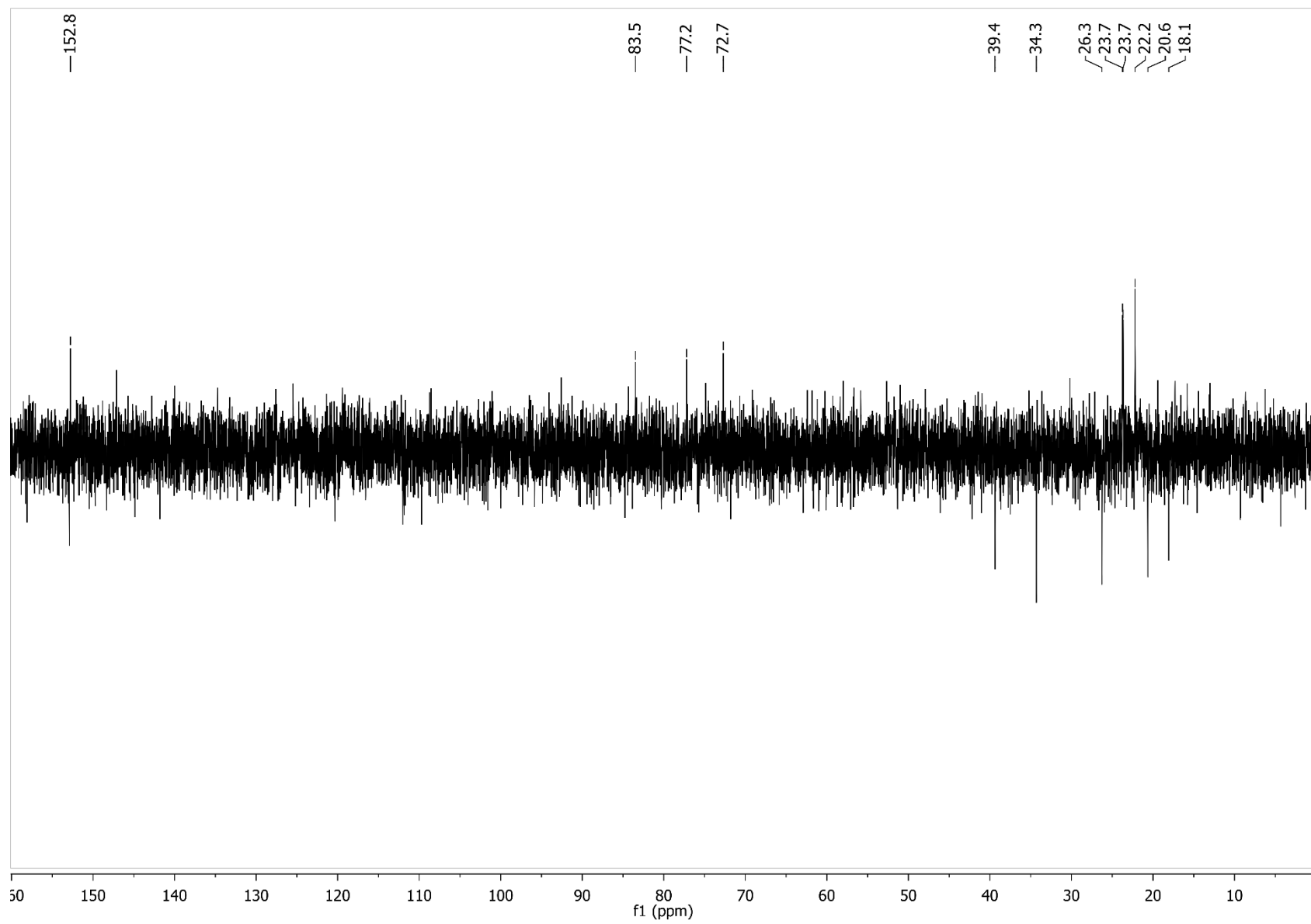


Figure S78. HSQC NMR (400 MHz, CDCl₃) spectrum of **5**

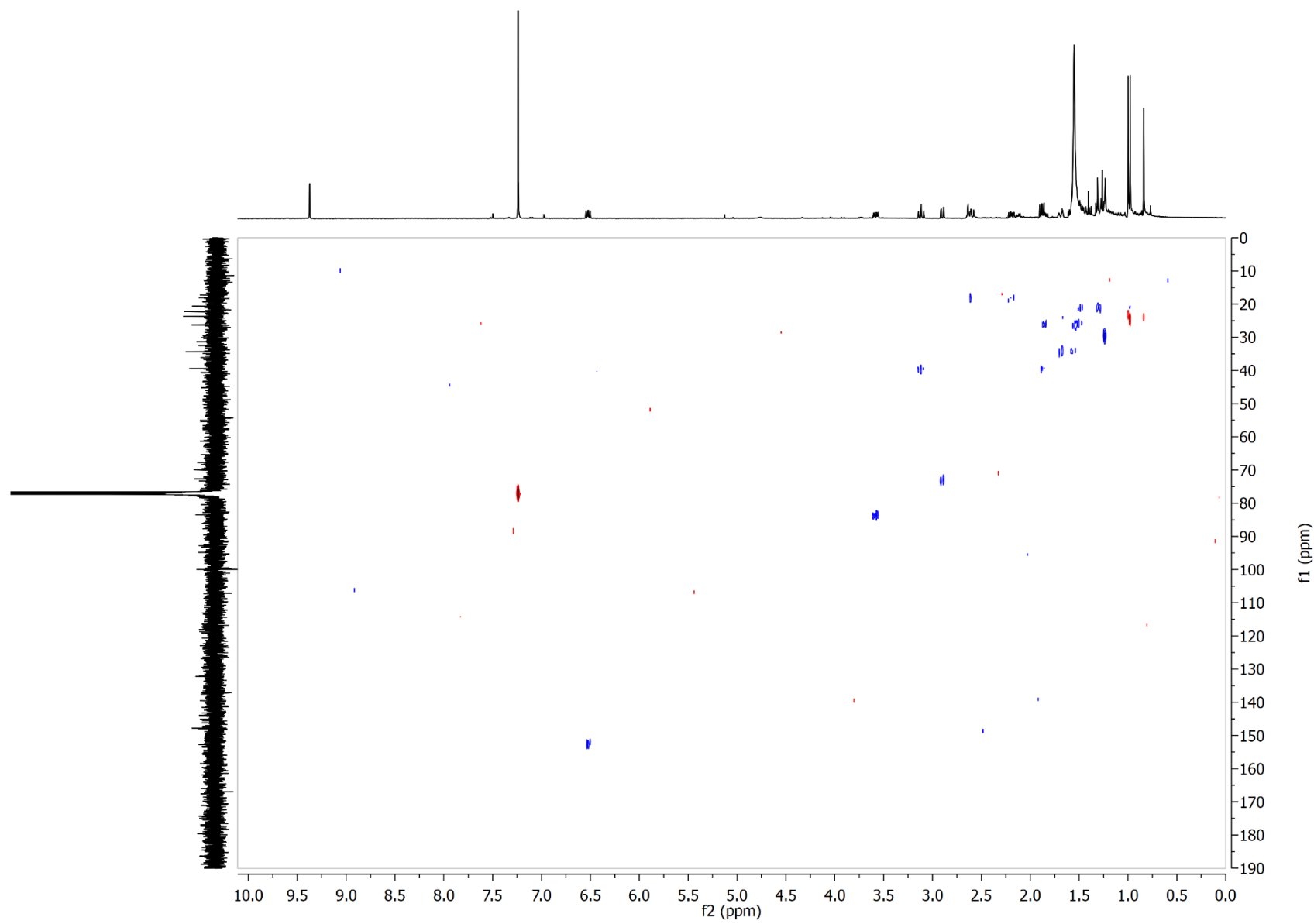


Figure S79. HSQC NMR (400 MHz, CDCl₃) extension spectrum of **5**

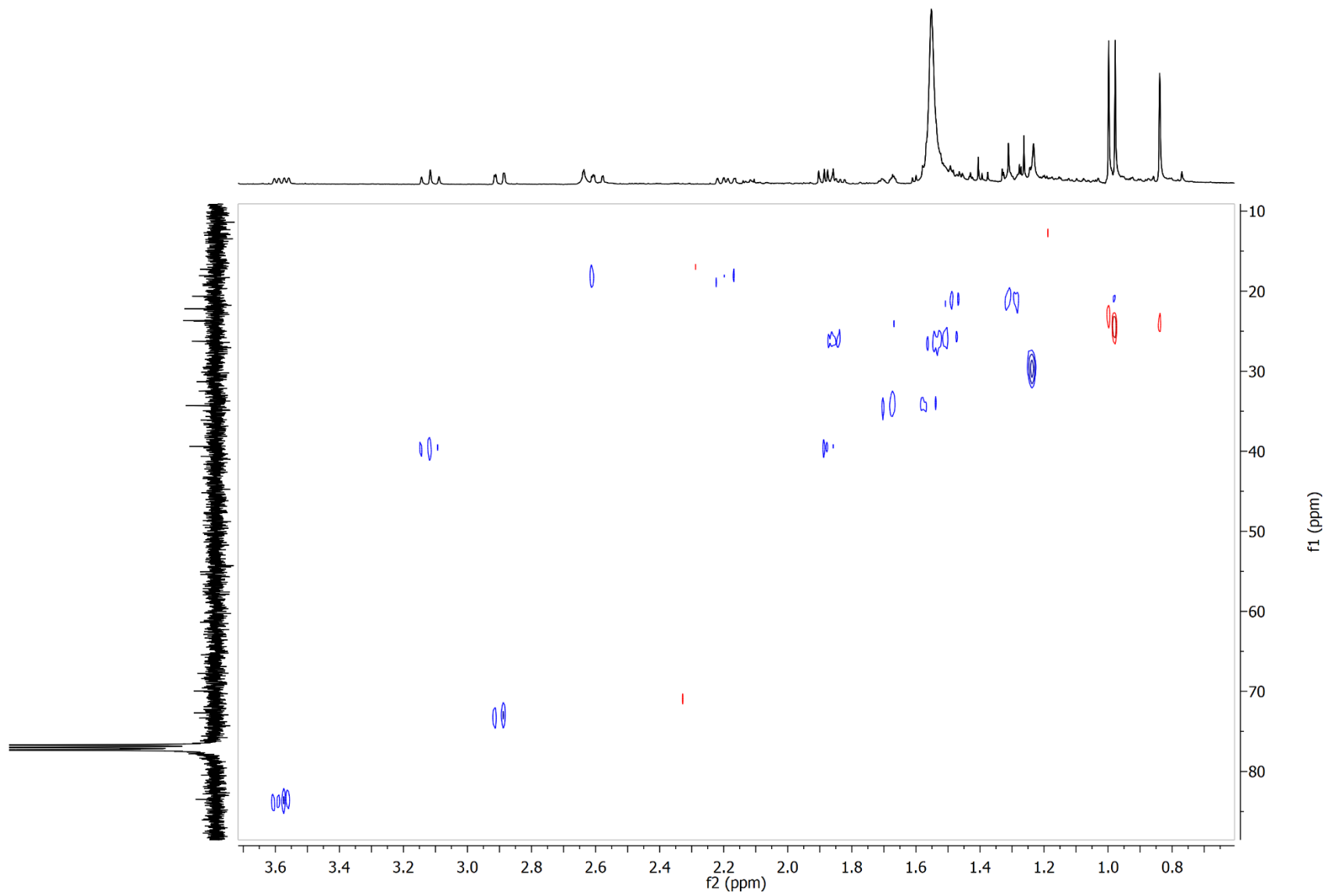


Figure S80. HMBC NMR (400 MHz, CDCl₃) spectrum of **5**

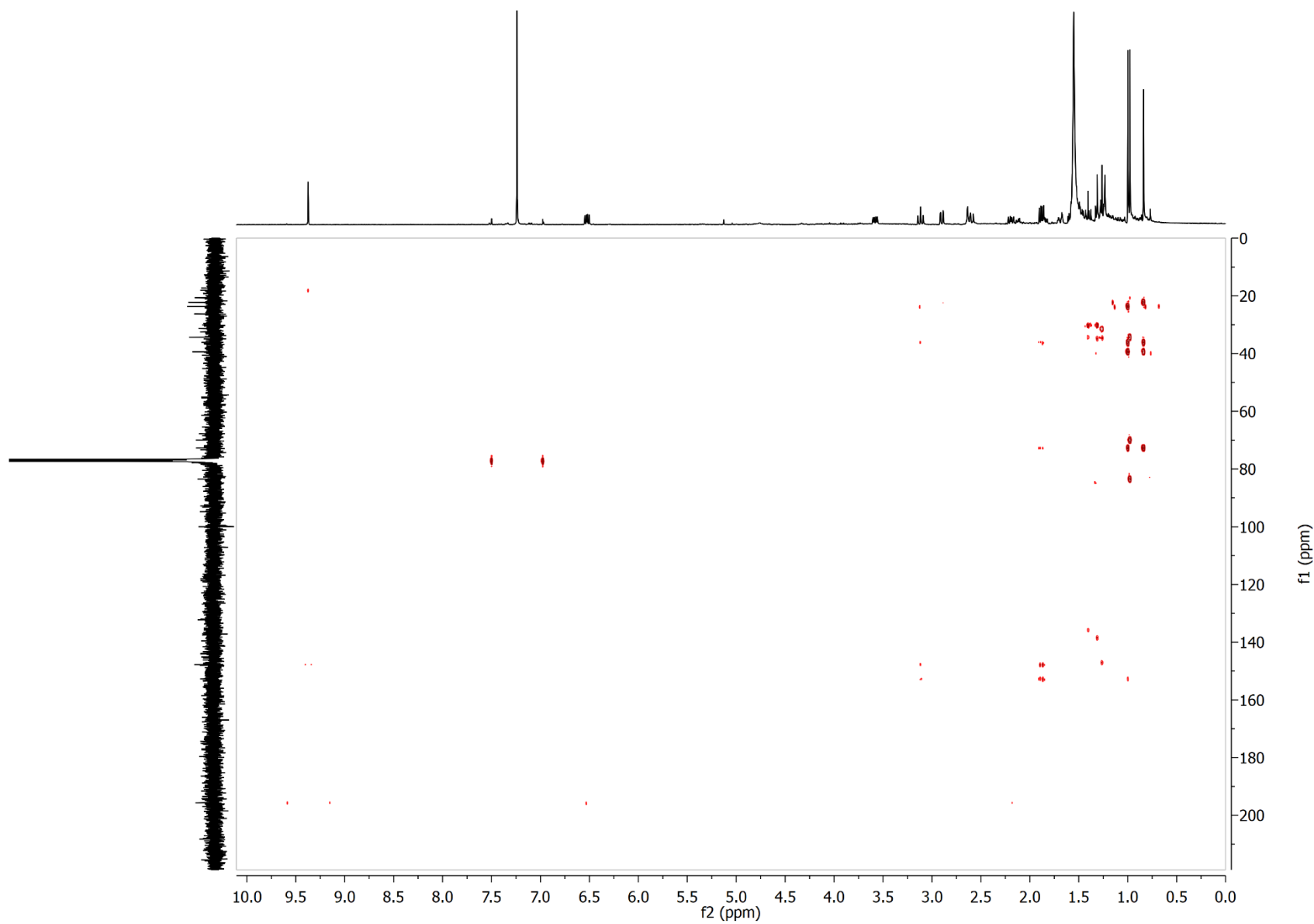


Figure S81. HMBC NMR (400 MHz, CDCl₃) extension spectrum of **5**

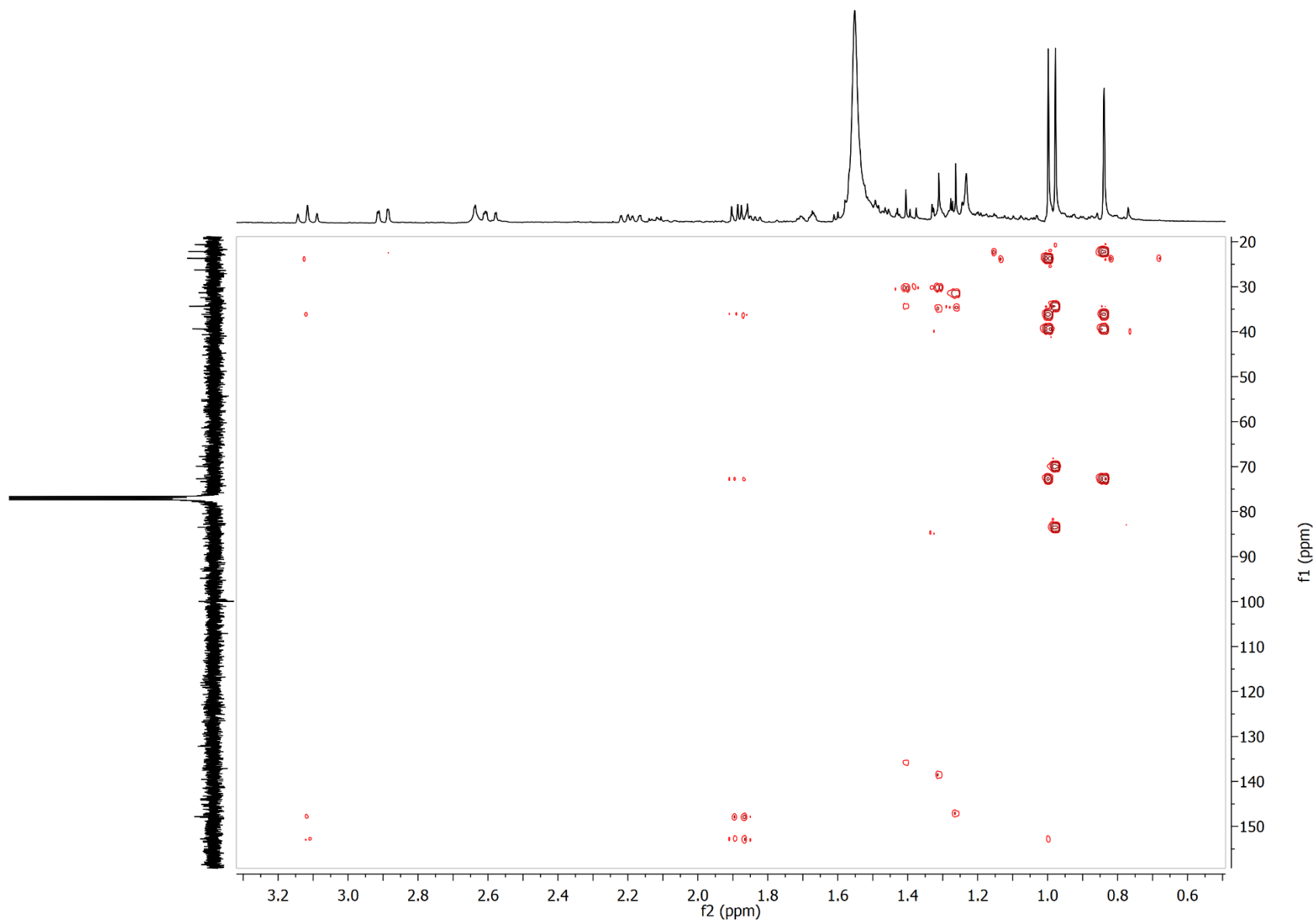


Figure S82. ^1H - ^1H COSY NMR (400 MHz, CDCl_3) spectrum of **5**

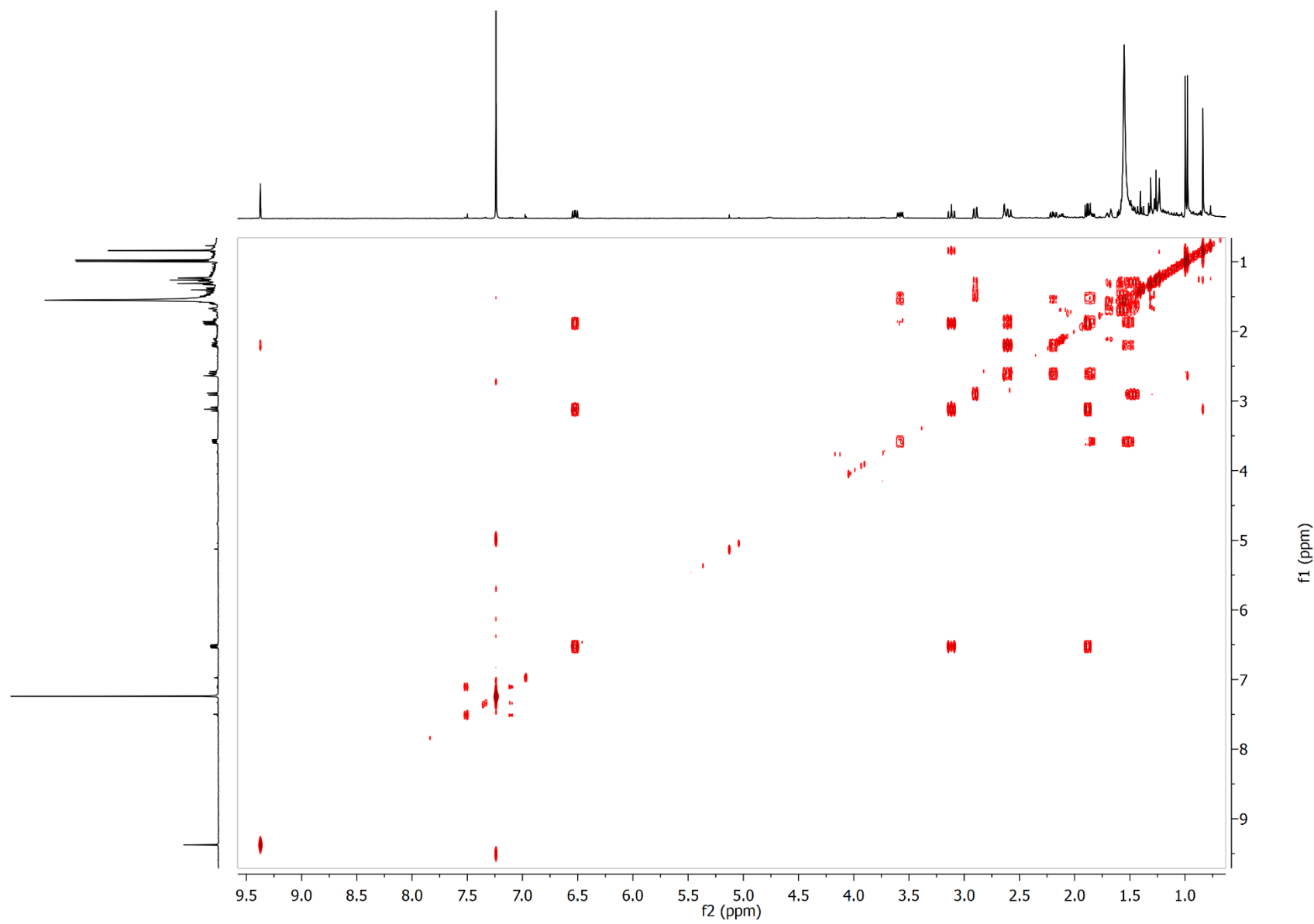


Figure S83. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) spectrum of **5**

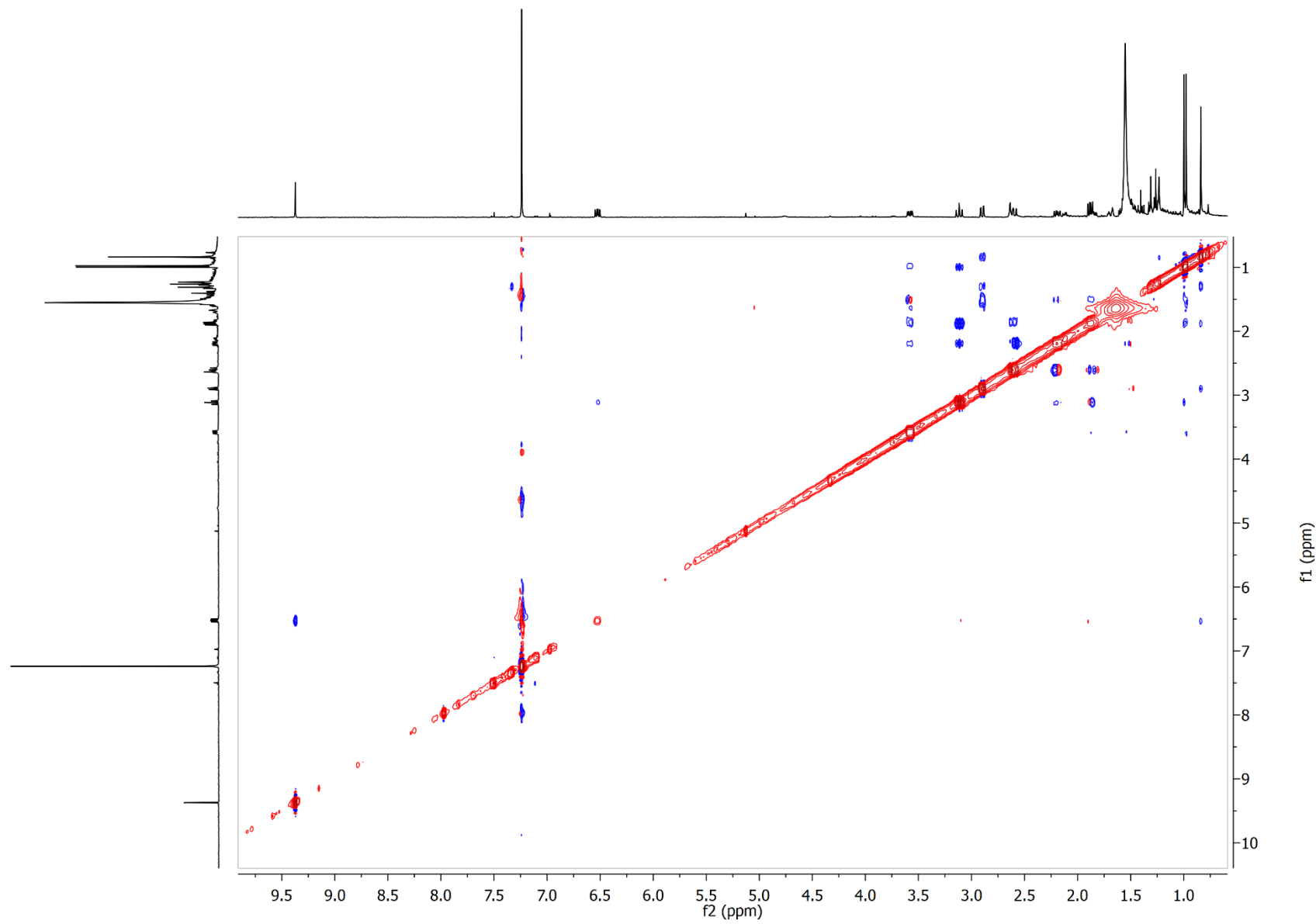


Figure S84. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) extension spectrum of **5**

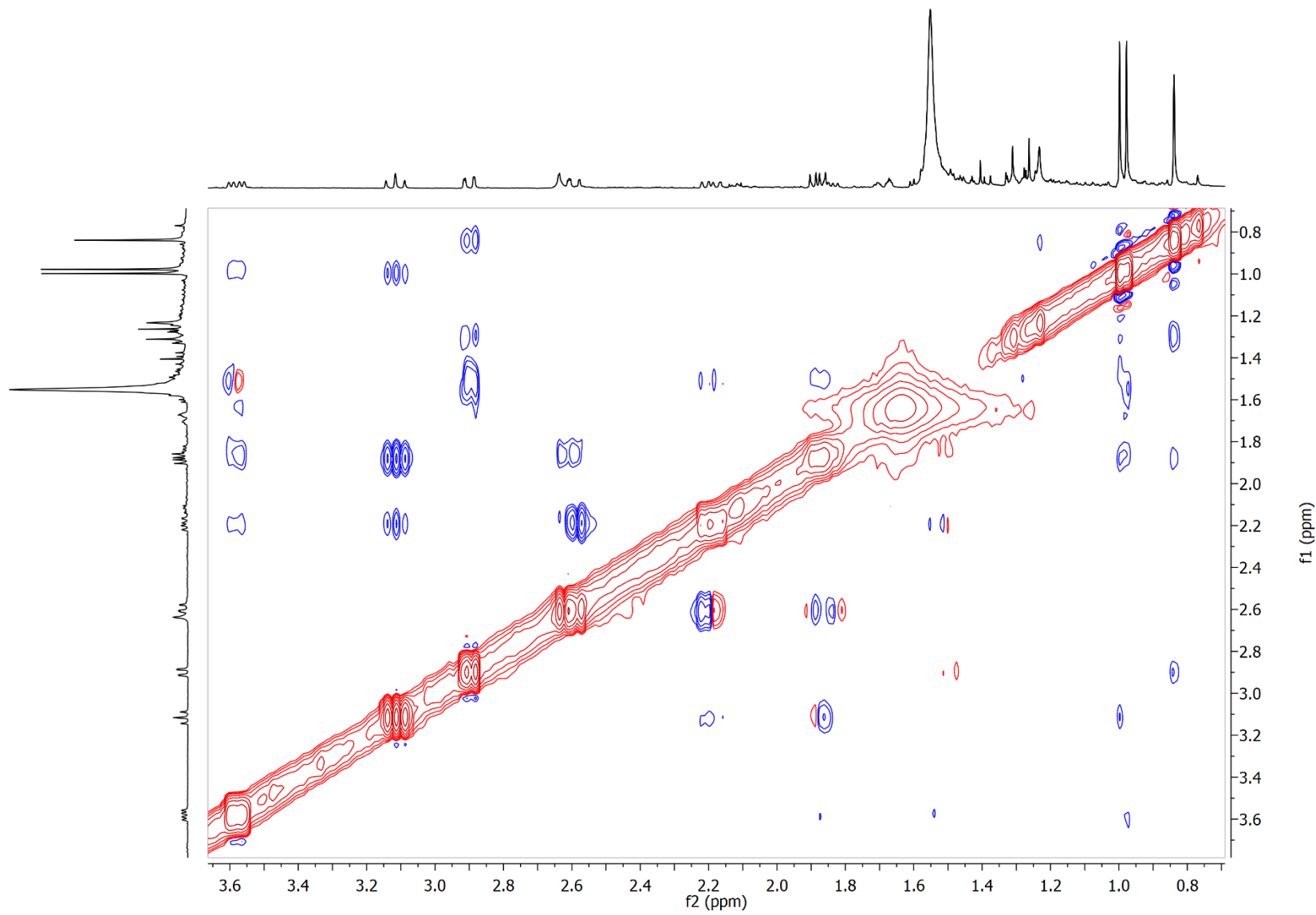


Figure S85. IR spectrum of compound **6**

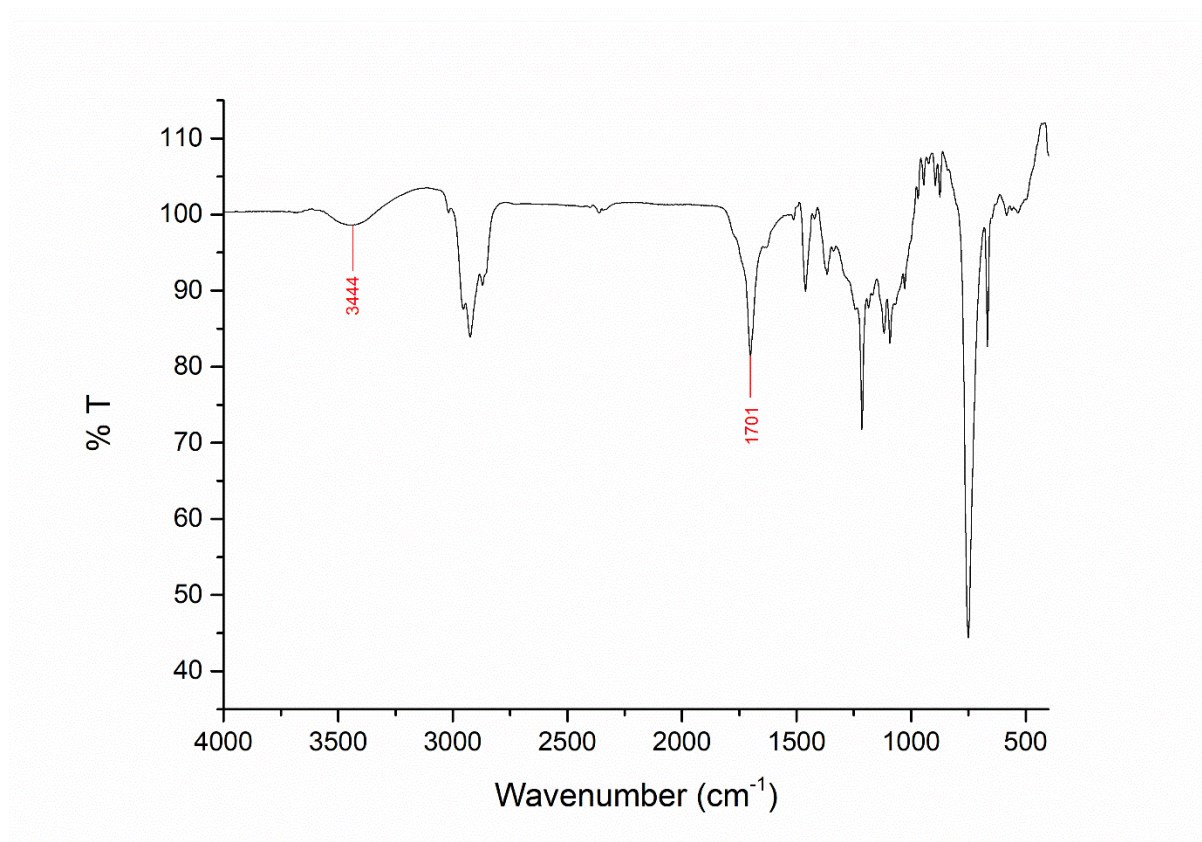


Figure S86. HRESIMS spectrum of compound **6** ([M + Na], positive ion mode)

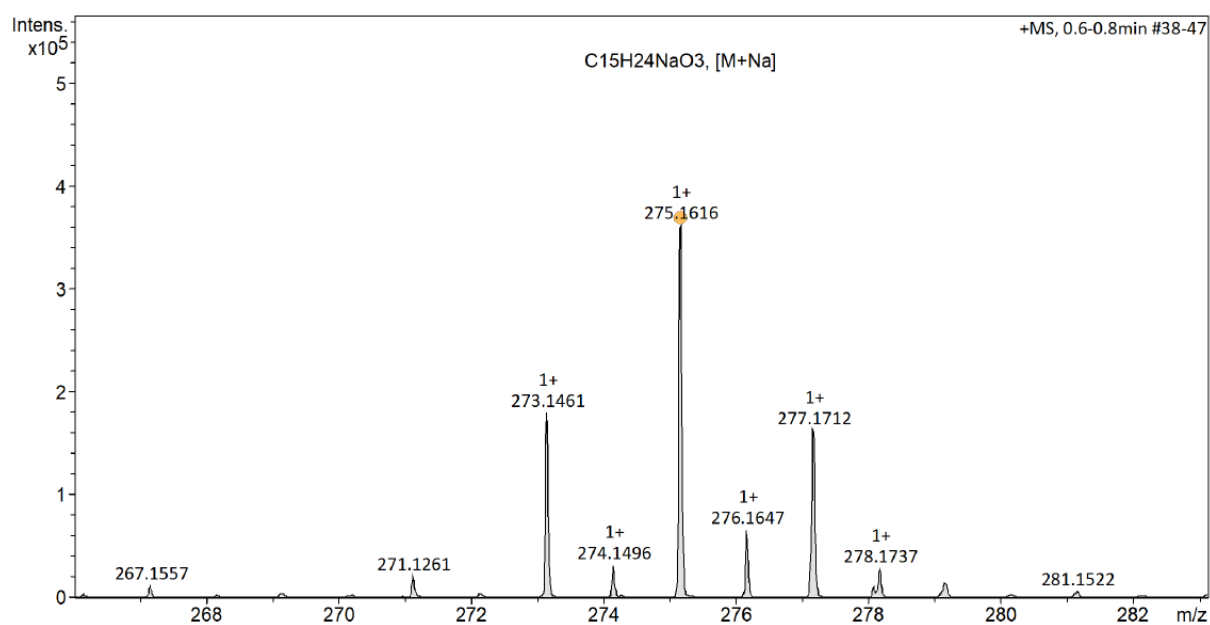


Figure S87. ^1H NMR (400 MHz, CDCl_3) spectrum of **6**

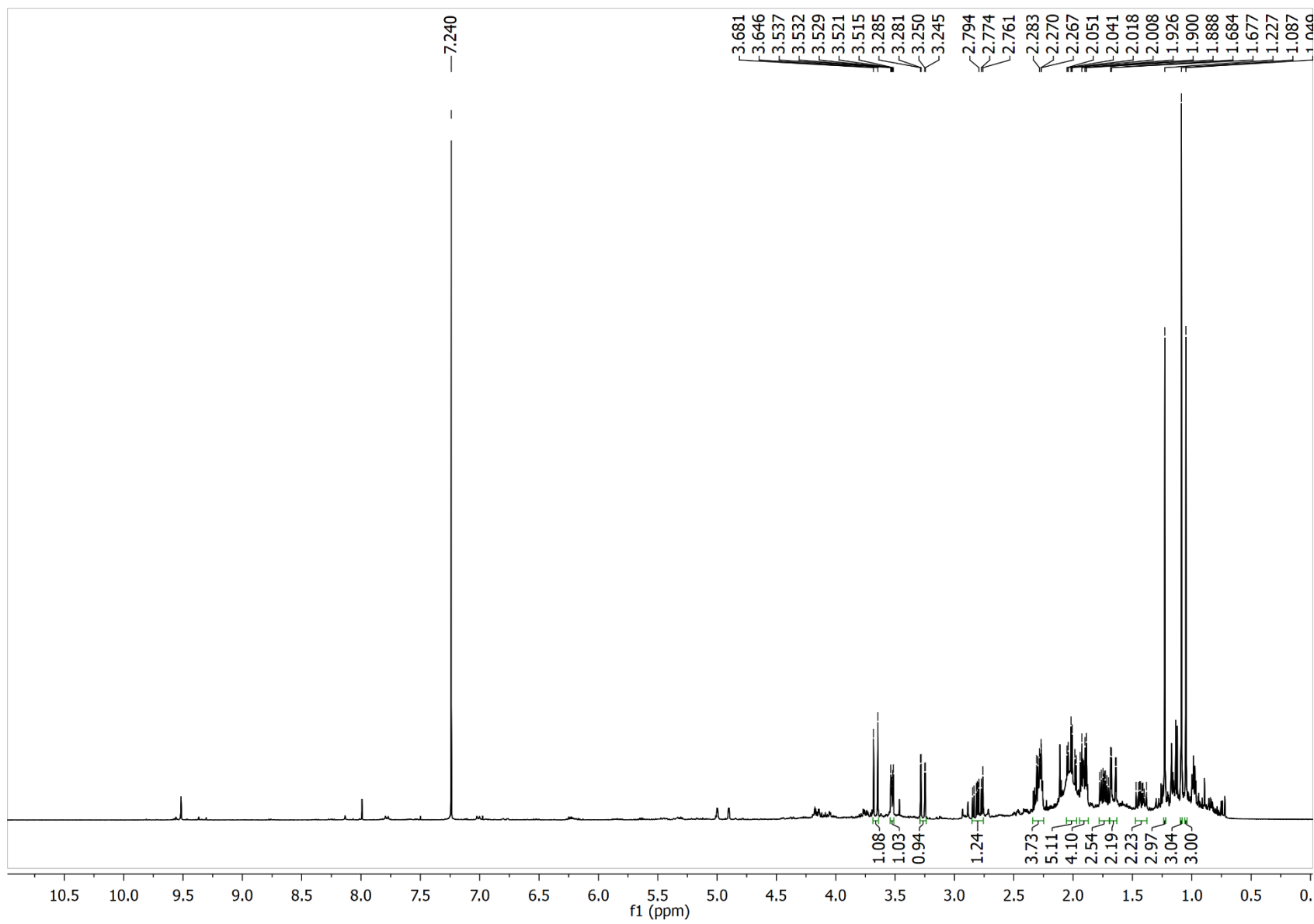


Figure S88. ^1H NMR (400 MHz, CDCl_3) extension spectrum of **6**

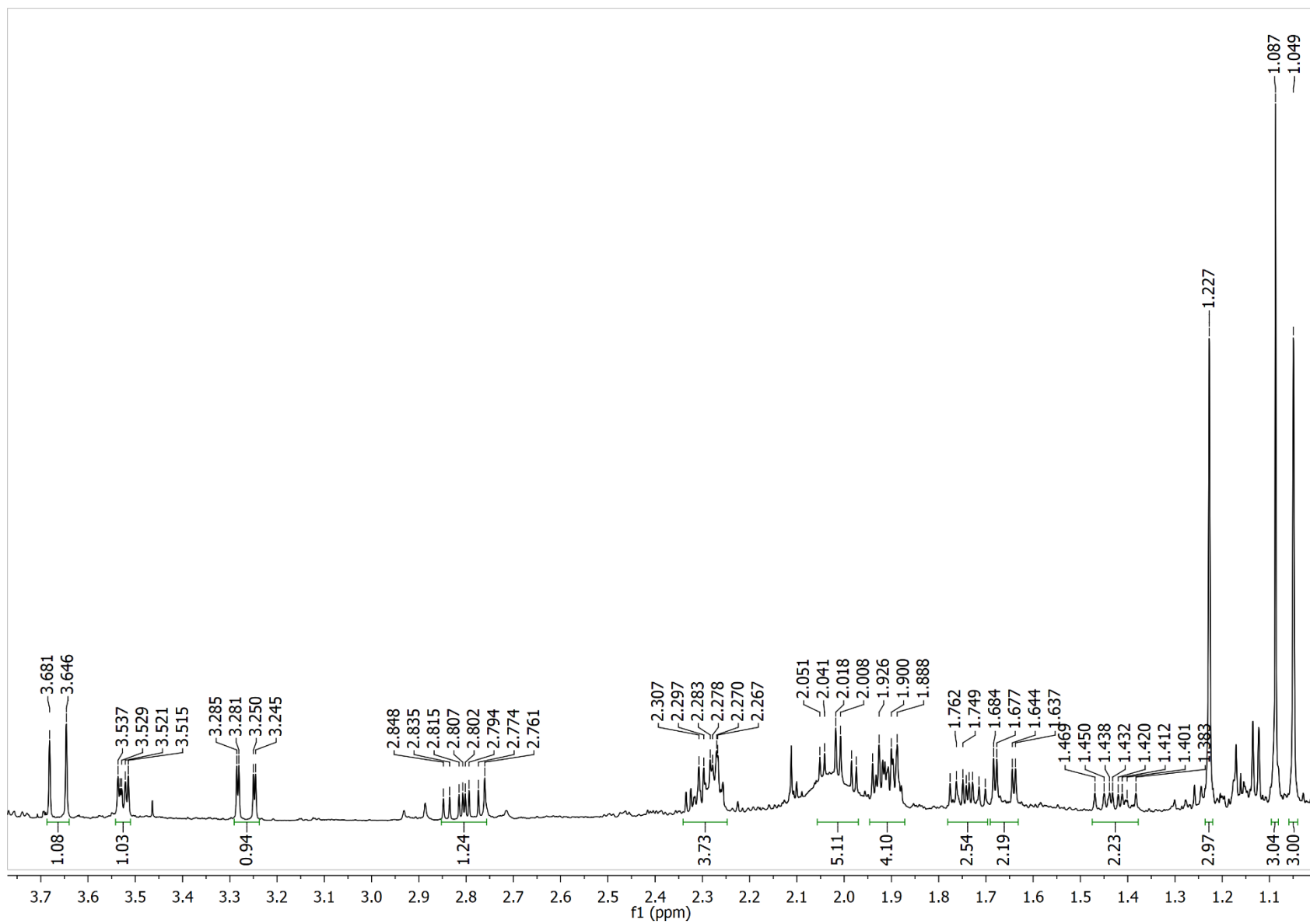


Figure S89. ^{13}C NMR (400 MHz, CDCl_3) spectrum of **6**

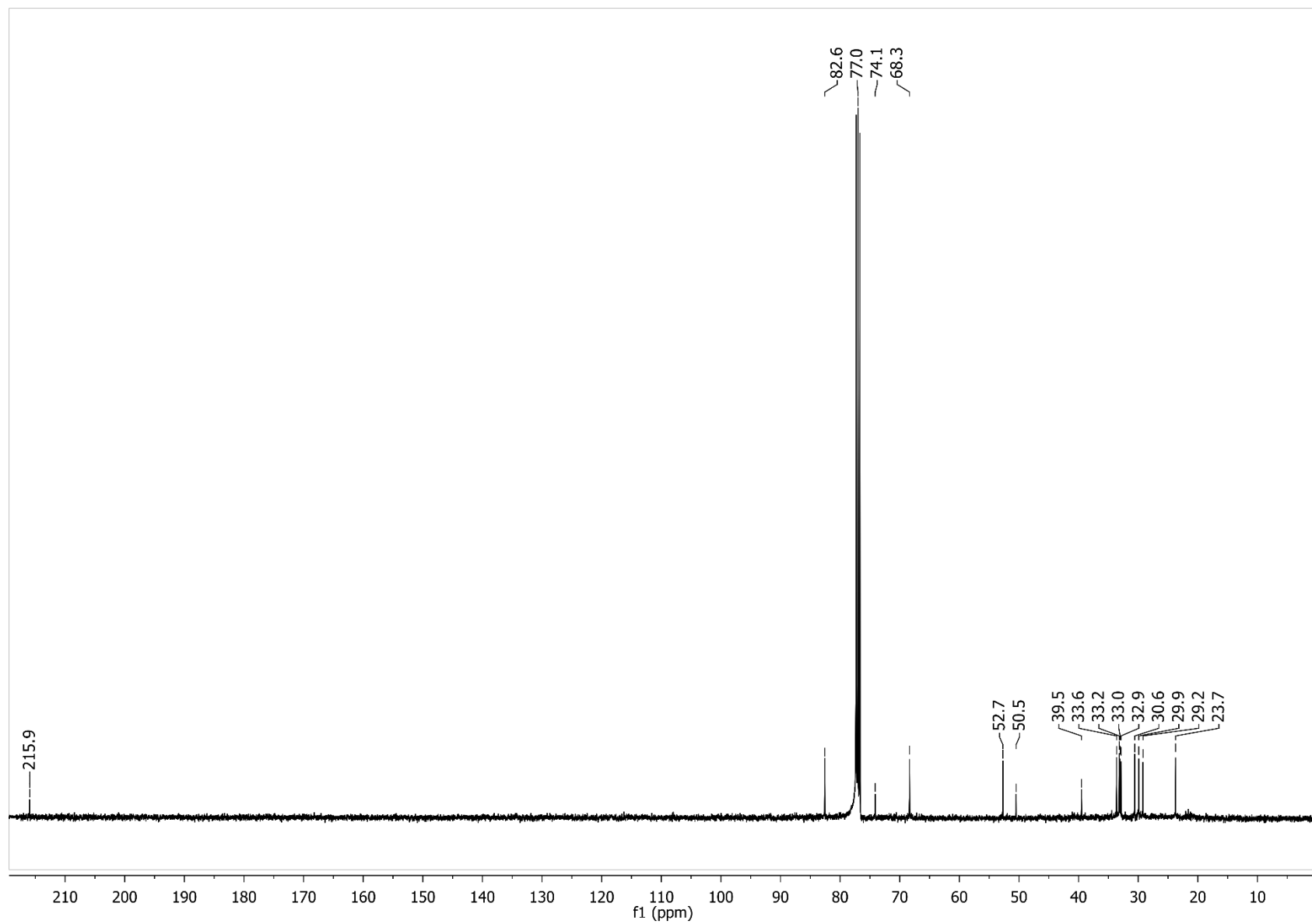


Figure S90. DEPT-135 NMR (400 MHz, CDCl₃) spectrum of **6**

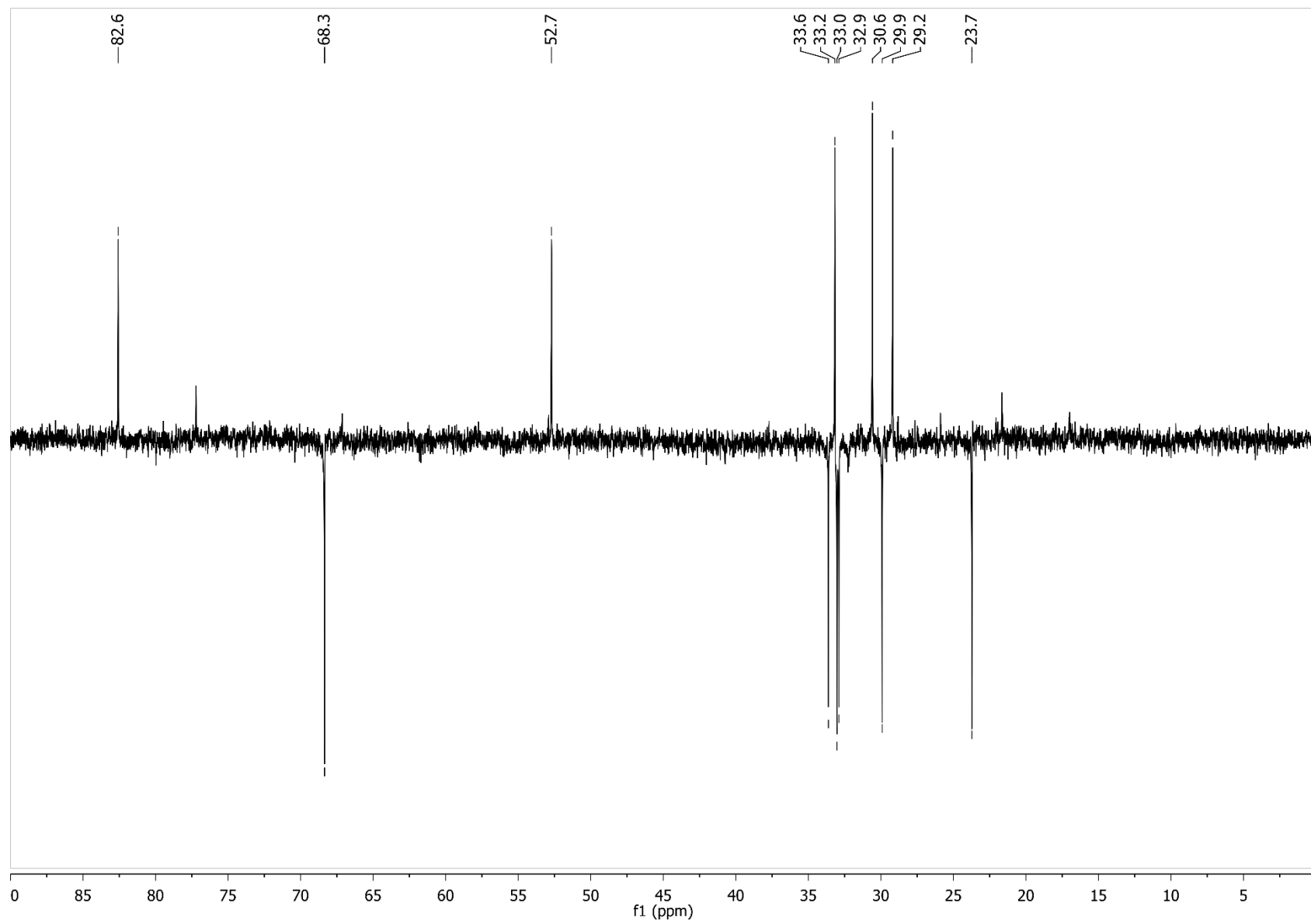


Figure S91. HSQC NMR (400 MHz, CDCl₃) spectrum of **6**

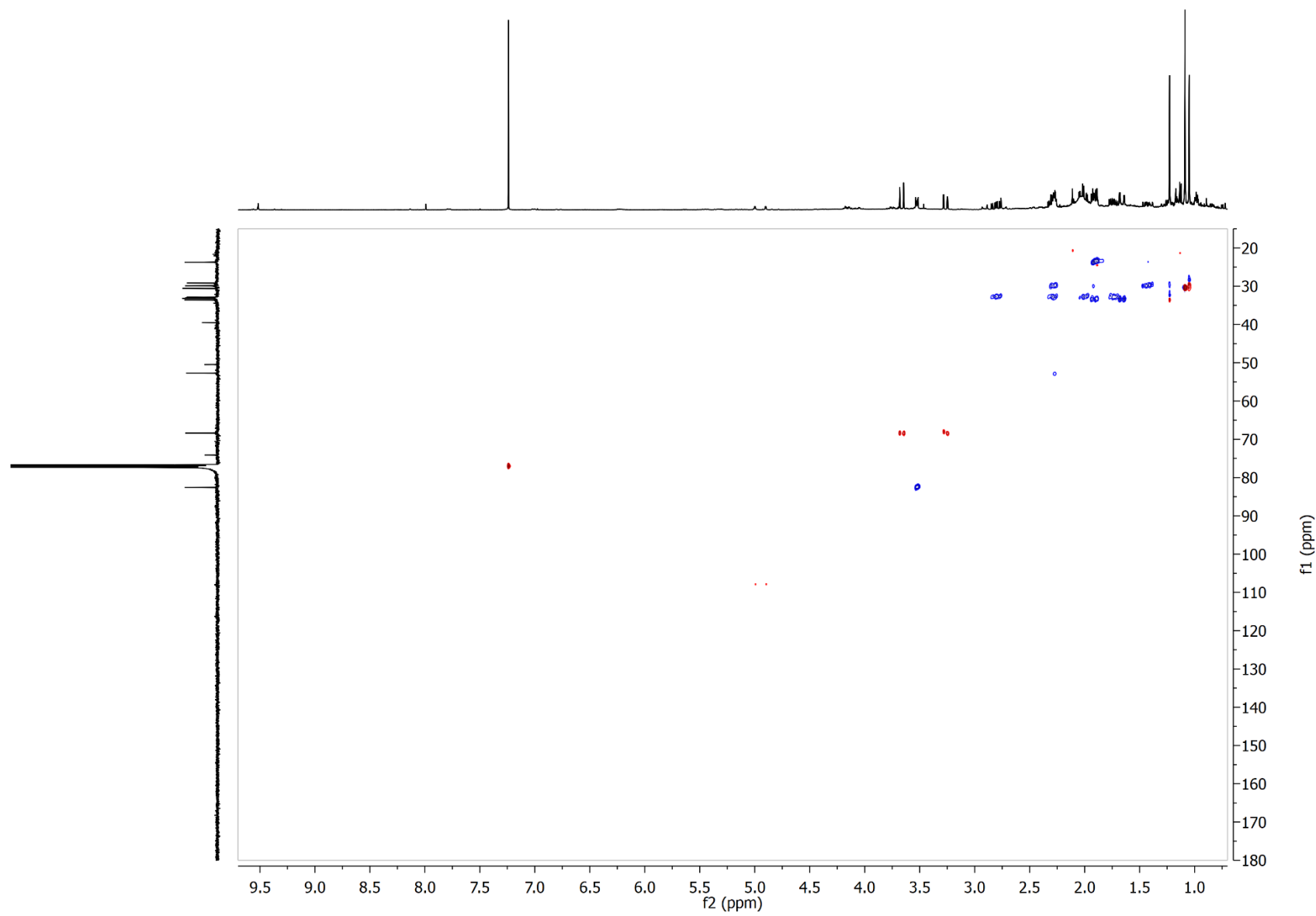


Figure S92. HSQC NMR (400 MHz, CDCl₃) extension spectrum of **6**

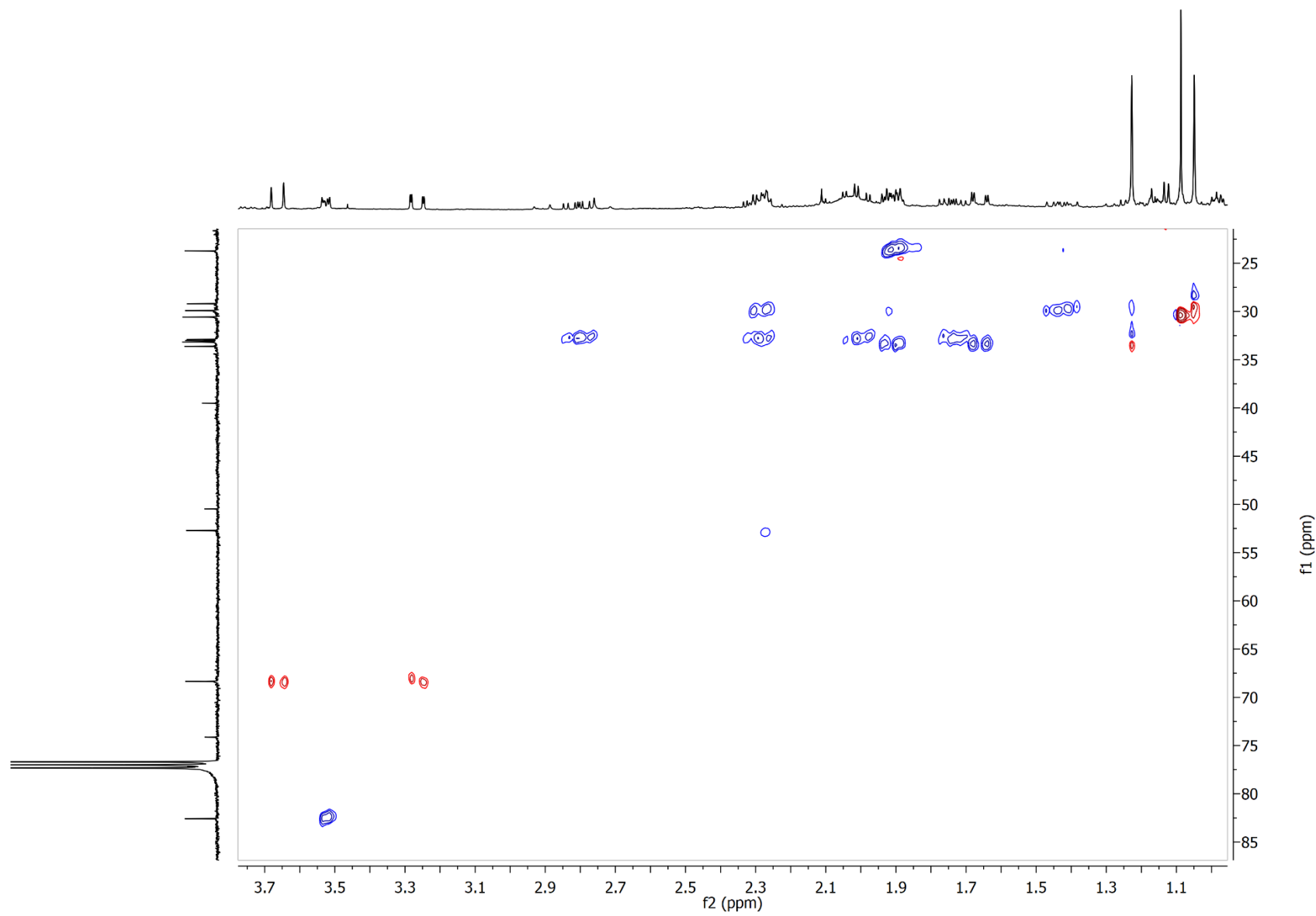


Figure S93. HMBC NMR (400 MHz, CDCl₃) spectrum of **6**

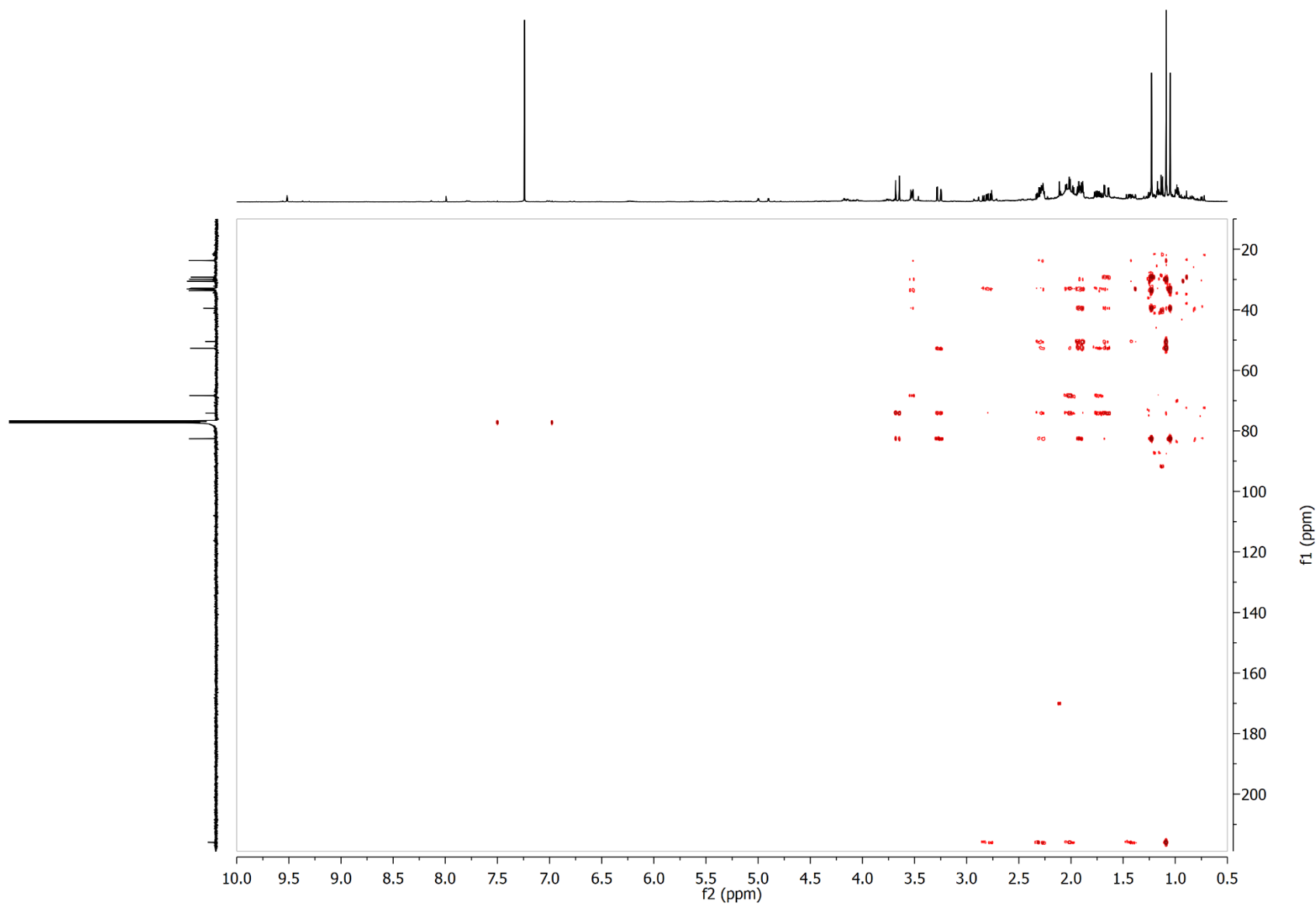


Figure S94. HMBC NMR (400 MHz, CDCl₃) extension spectrum of **6**

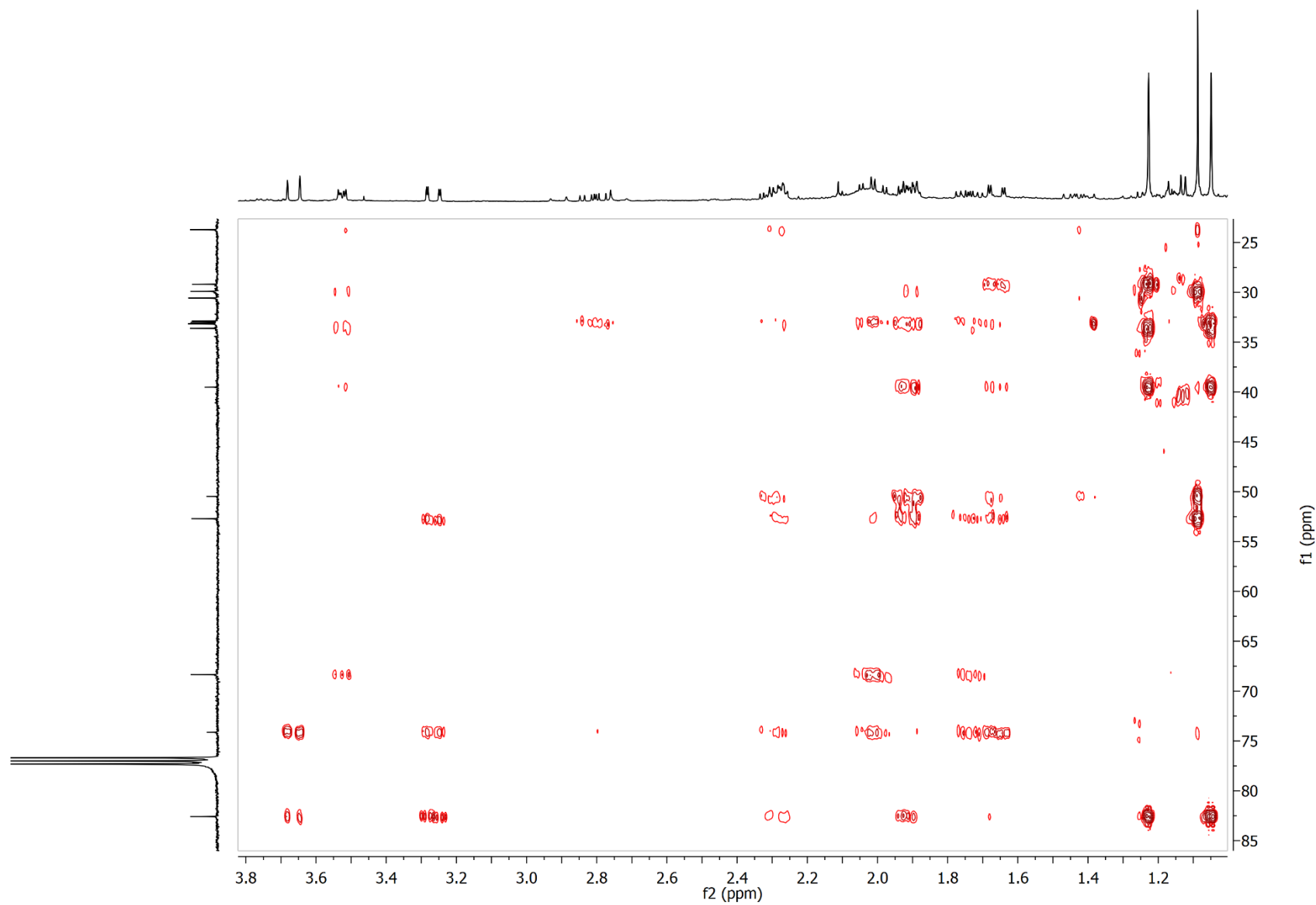


Figure S95. ^1H - ^1H COSY NMR (400 MHz, CDCl_3) spectrum of **6**

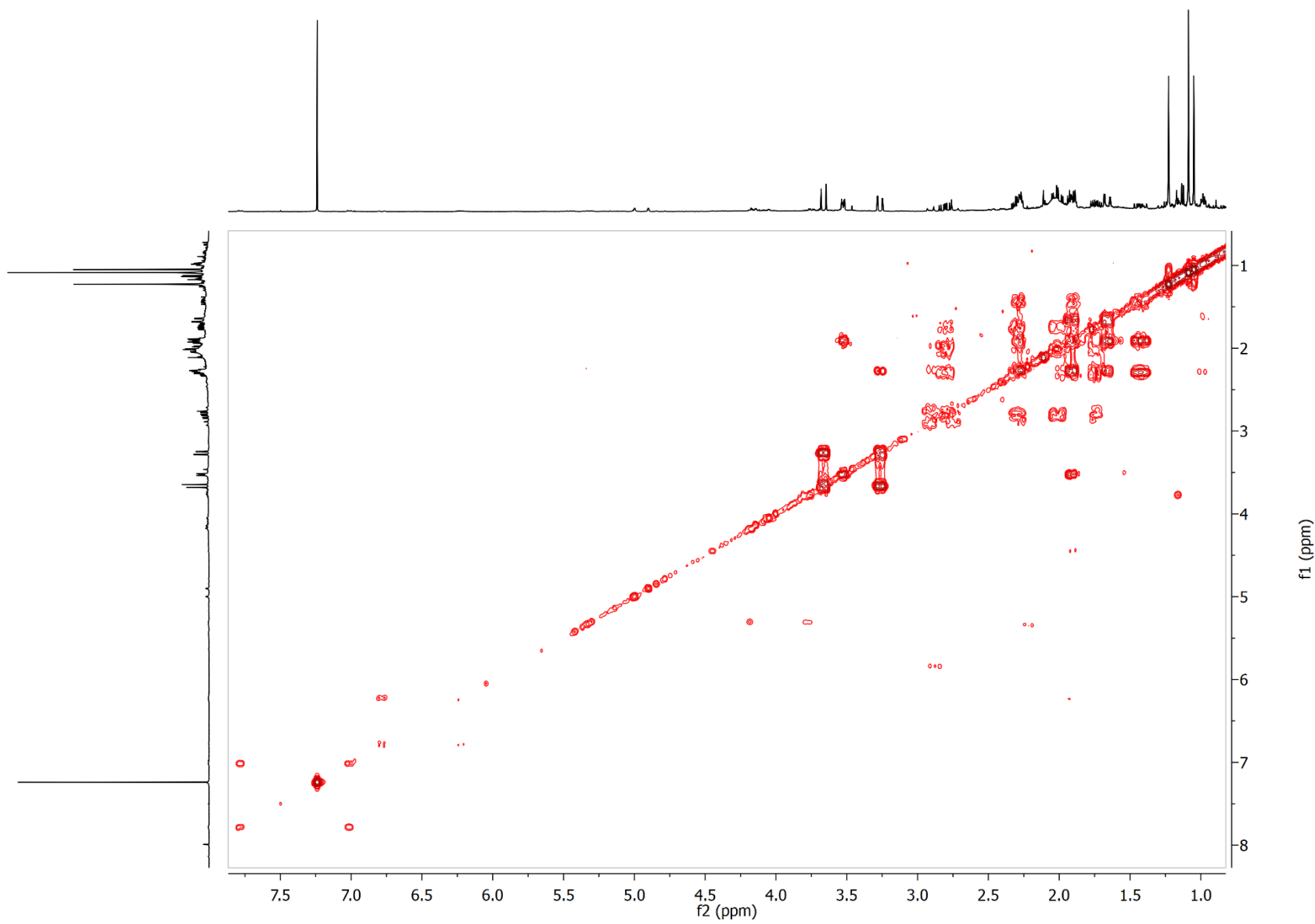


Figure S96. ^1H - ^1H COSY NMR (400 MHz, CDCl_3) extension spectrum of **6**

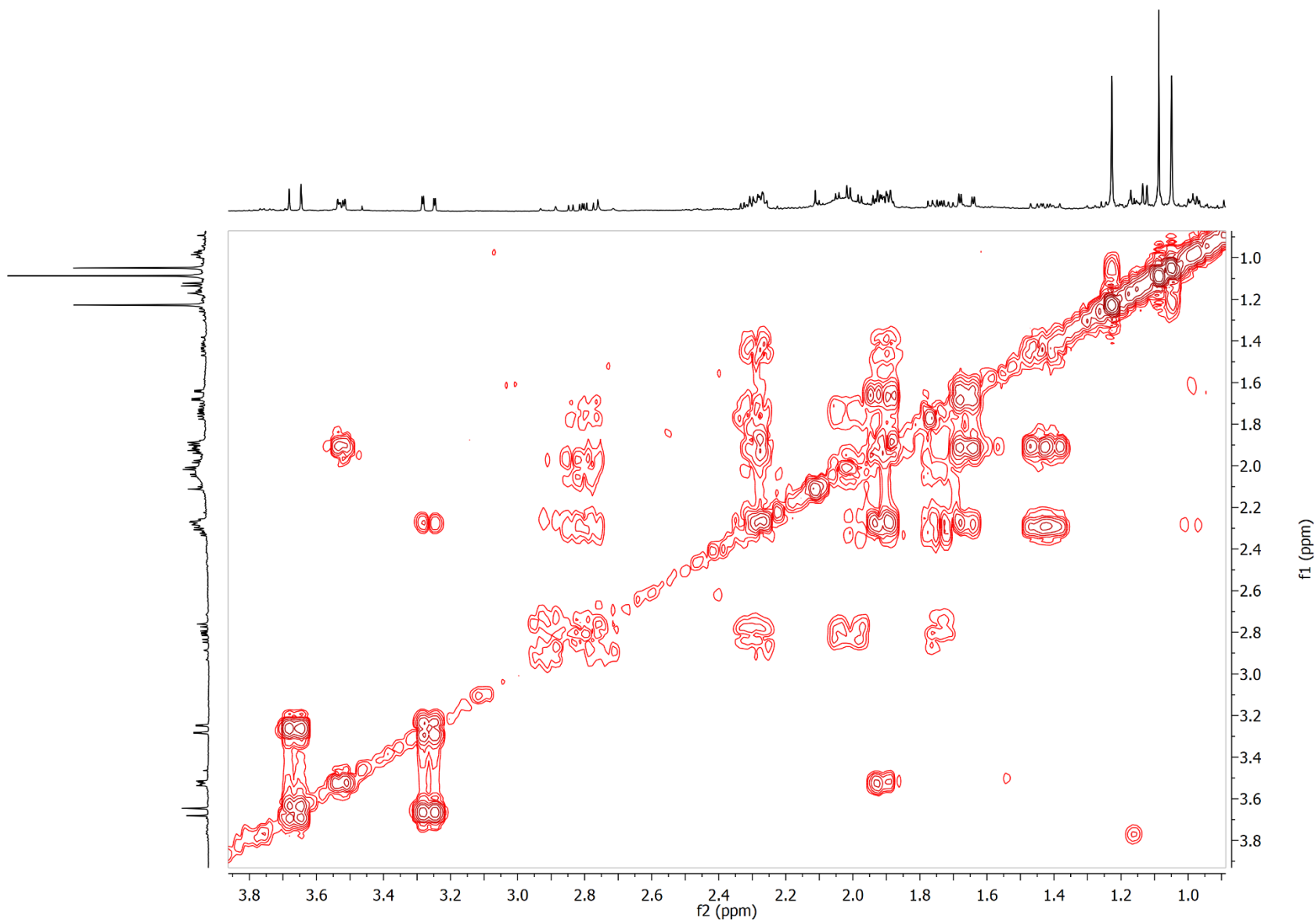


Figure S97. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) spectrum of **6**

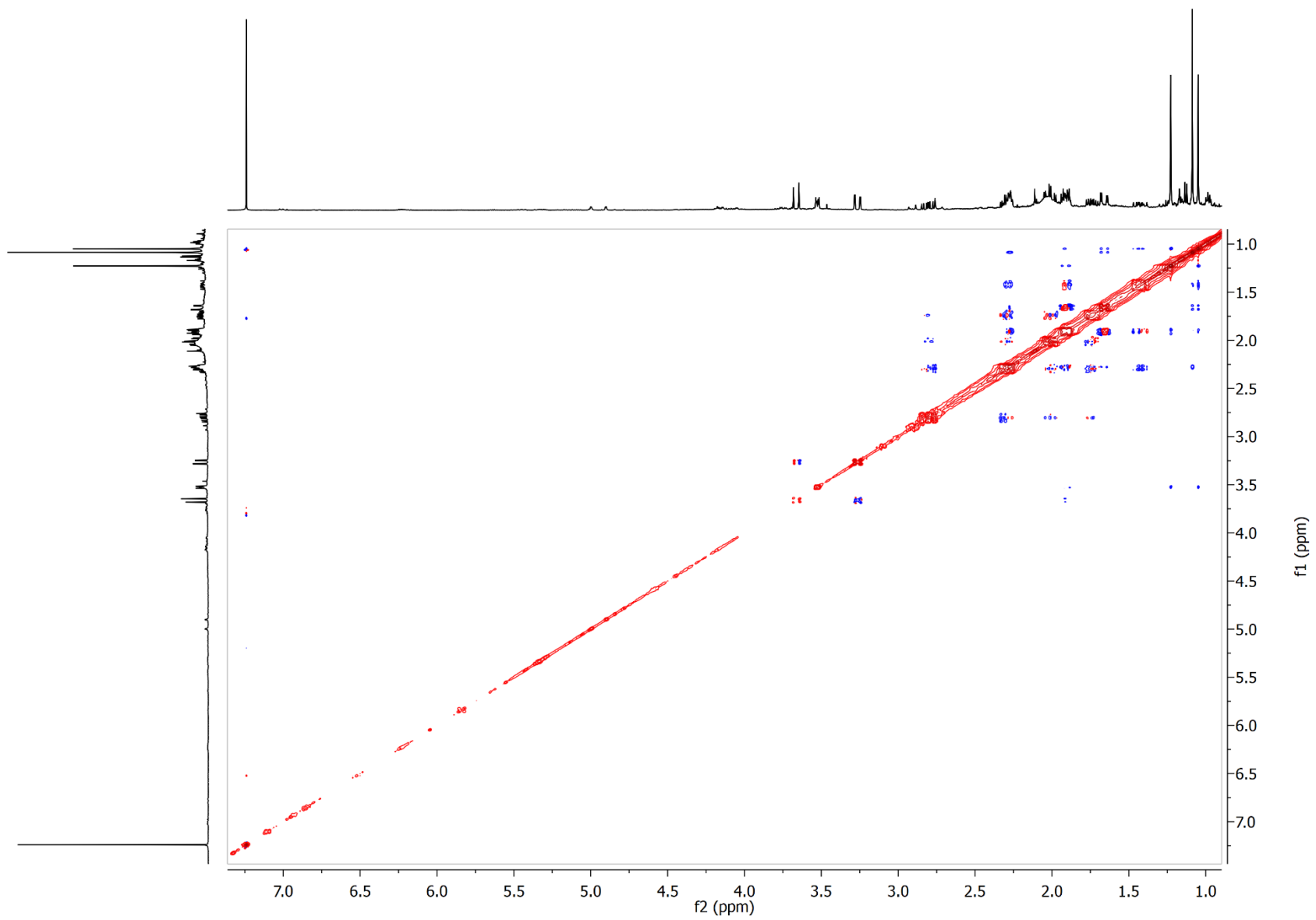


Figure S98. ^1H - ^1H NOESY NMR (400 MHz, CDCl_3) extension spectrum of **6**

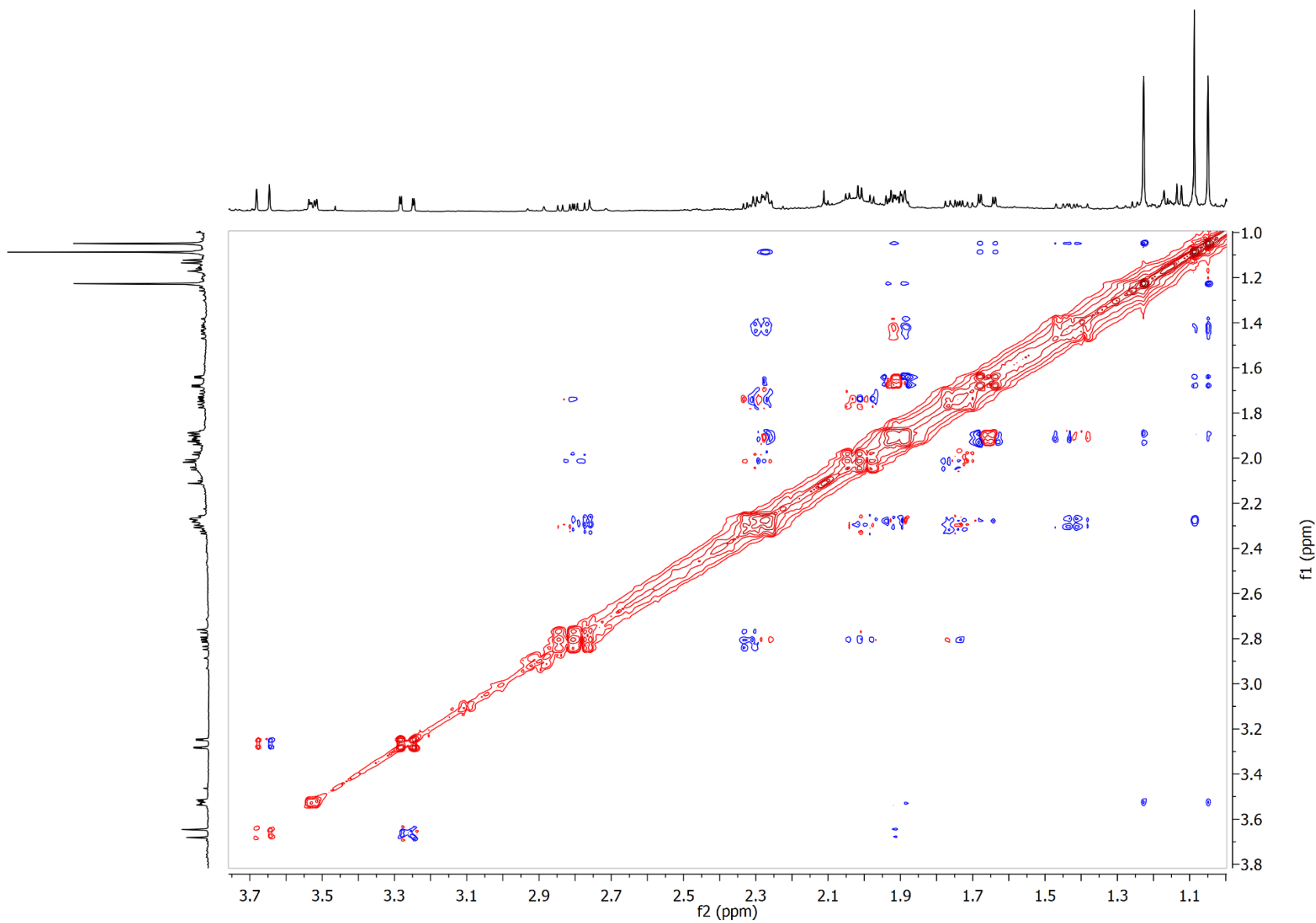


Figure S99. ESIMS/MS spectrum of compound **6** ($[M + H]^+$, positive ion mode)

