

New aromatic bisabolane derivatives with anti-obesity activity

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Figure S1 – Fresh sponge used for this study. The sample was morphologically identified as *Myrmekioderma* sp..

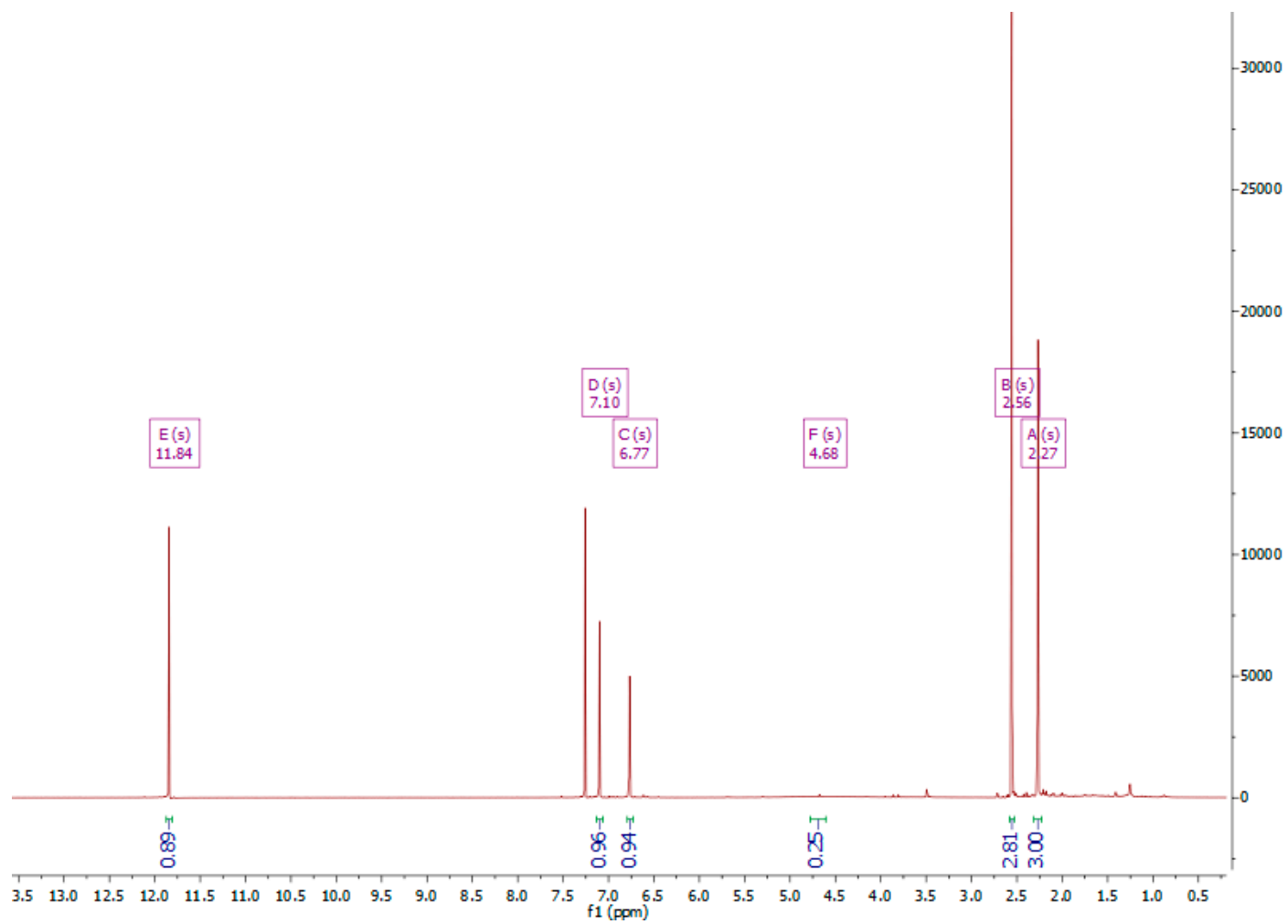


Figure S2 – ¹H-NMR spectrum for **Compound 1** (400 MHz, CDCl₃).

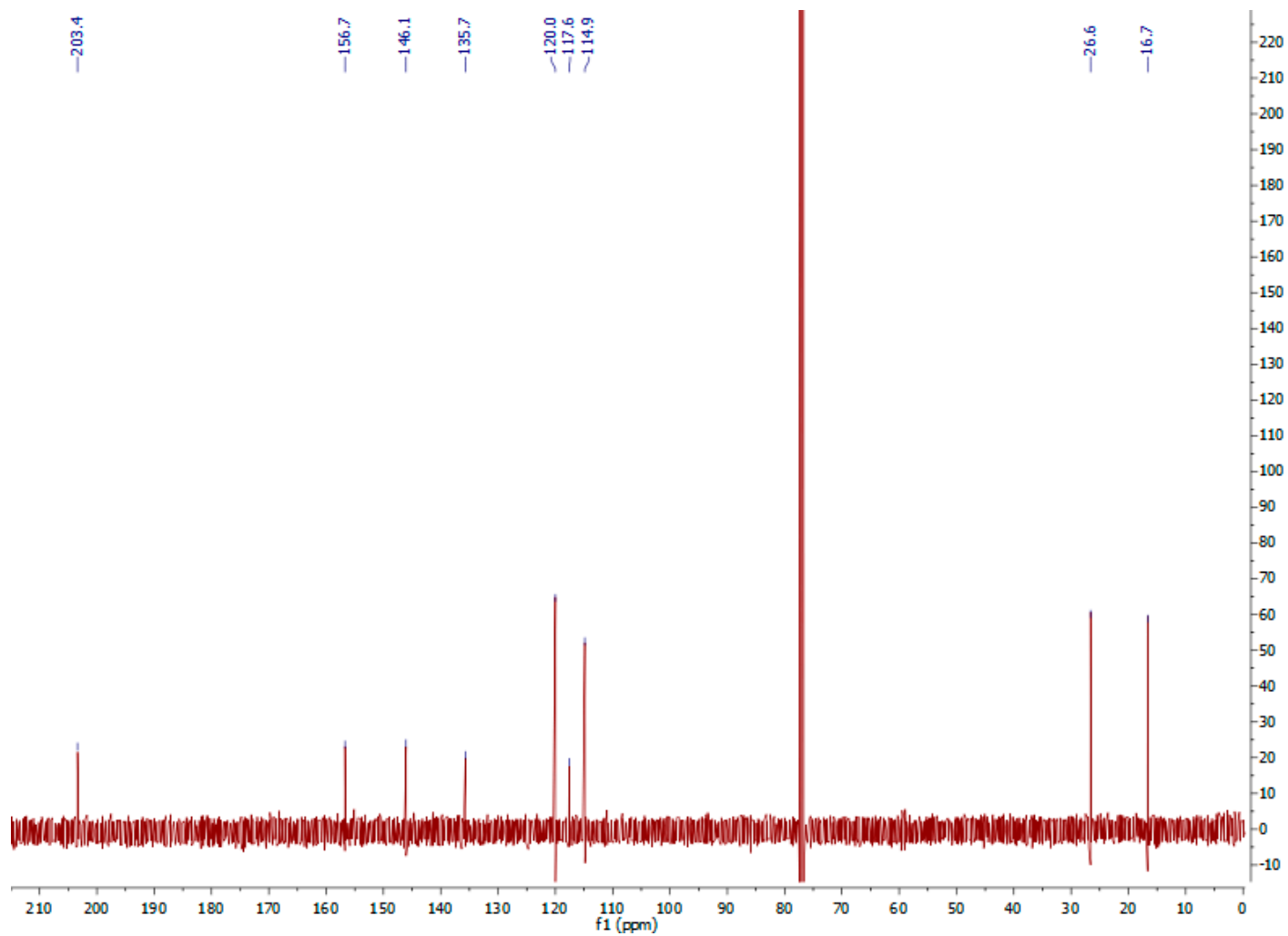


Figure S3 – ^{13}C -NMR spectrum for **Compound 1** (100 MHz, CDCl_3).

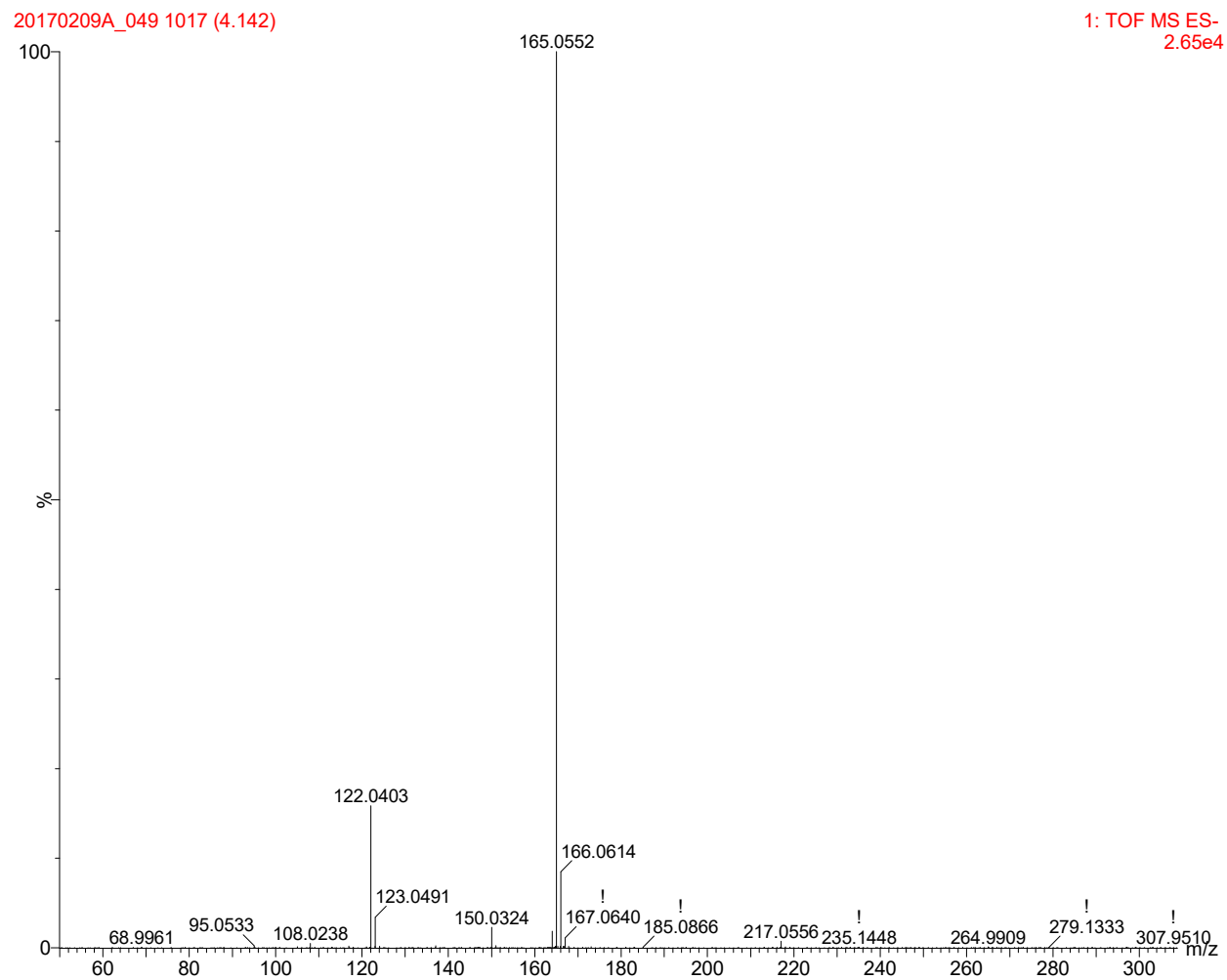


Figure S4 - HRESIMS spectrum for Compound 1.

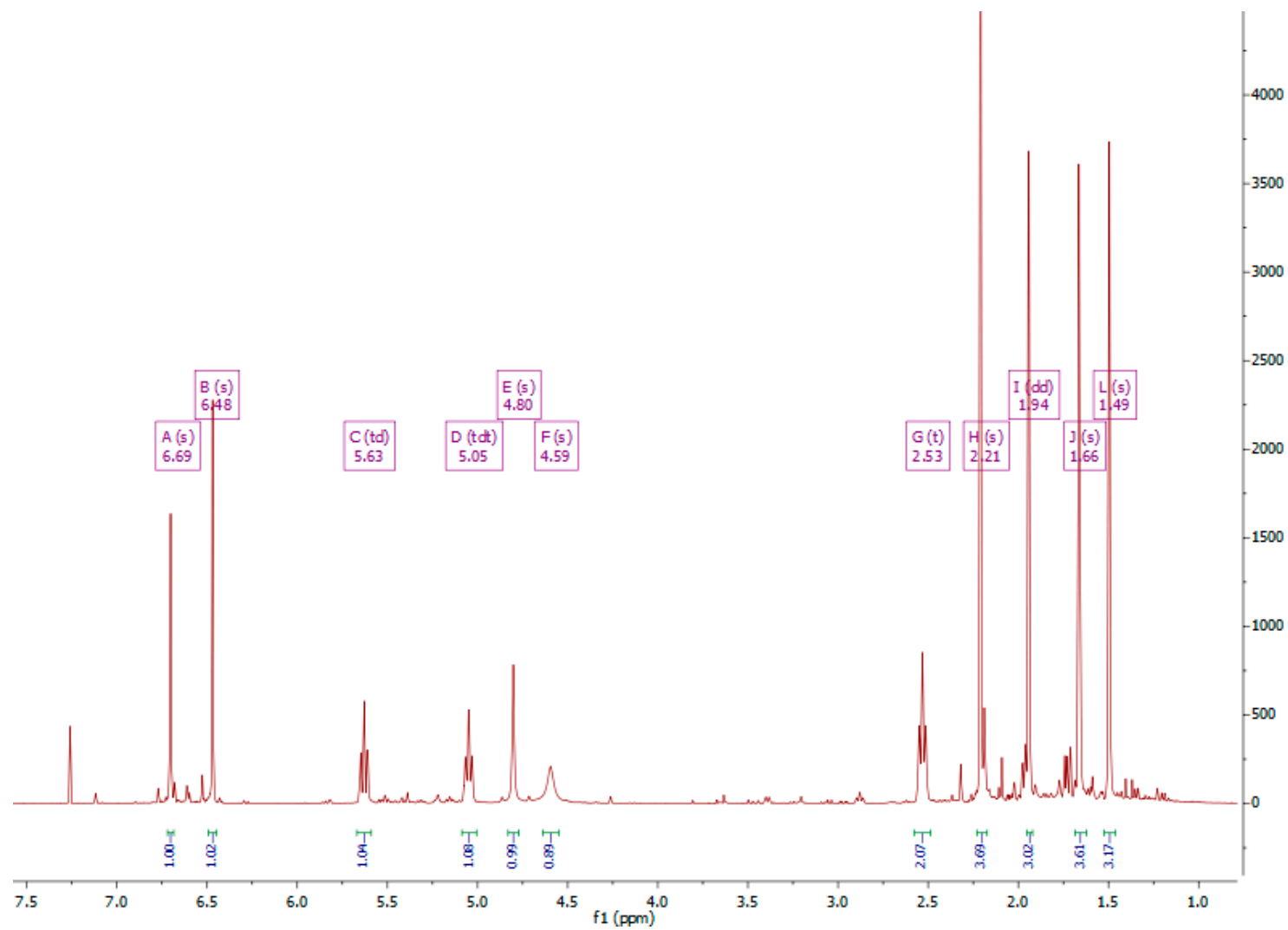


Figure S5 – ¹H-NMR spectrum for **Compound 2** (400 MHz, (CDCl₃)).

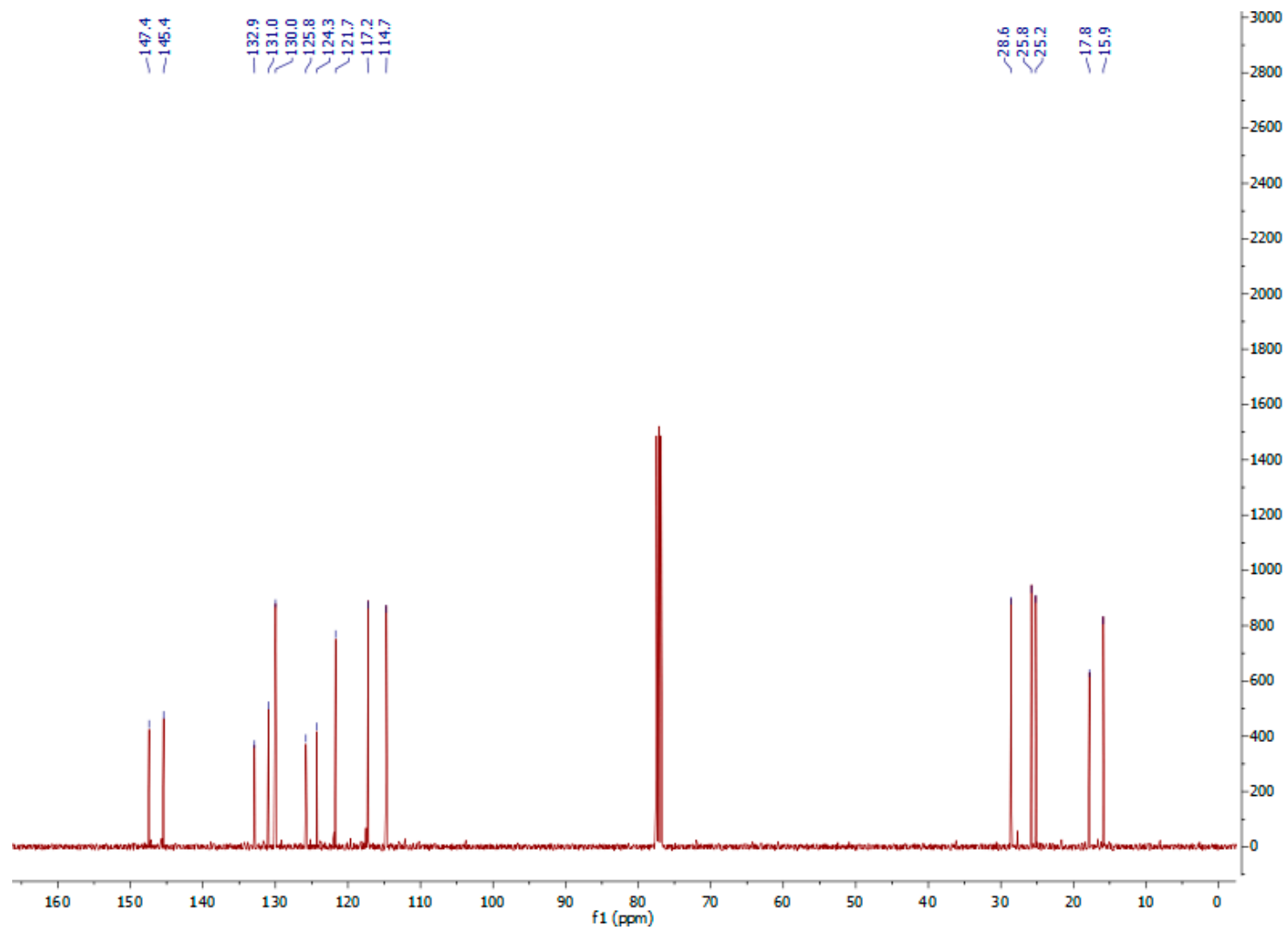


Figure S6 – ^{13}C -NMR spectrum for **Compound 2** (100 MHz, CDCl_3).

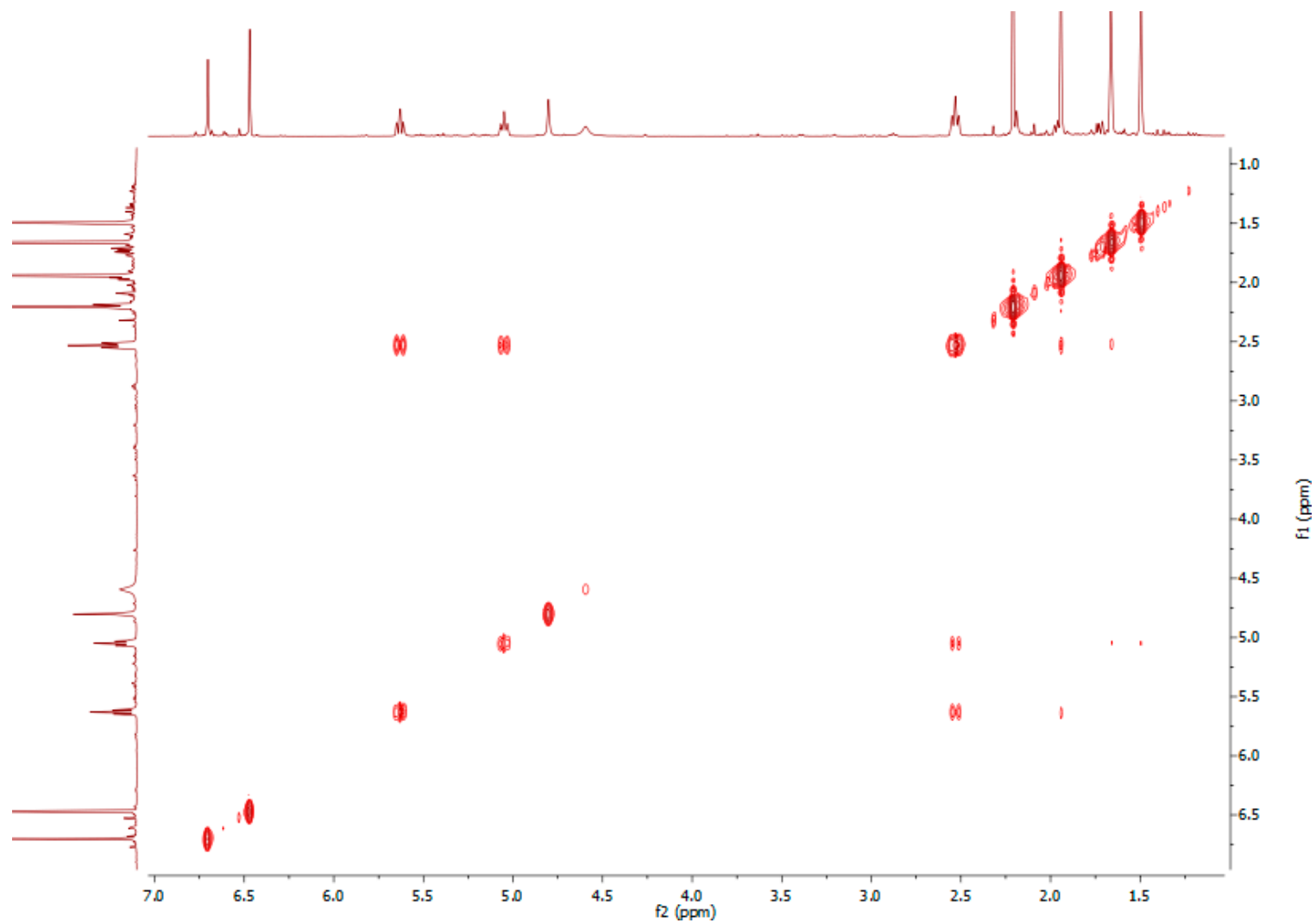


Figure S7 – *g*-COSY spectrum for **Compound 2** (100 MHz, CDCl₃).

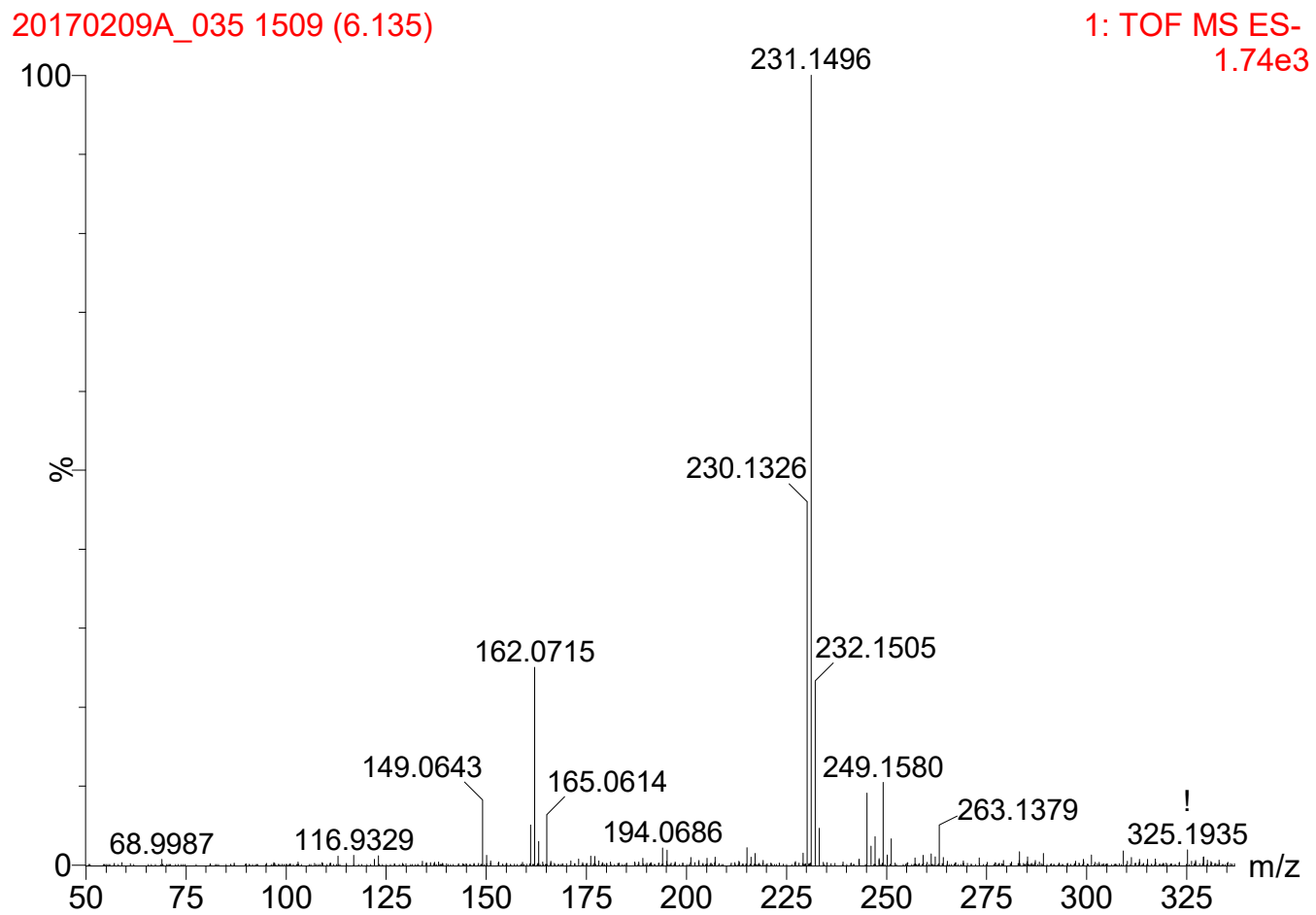


Figure S8 - HRESIMS spectrum for **Compound 2**.

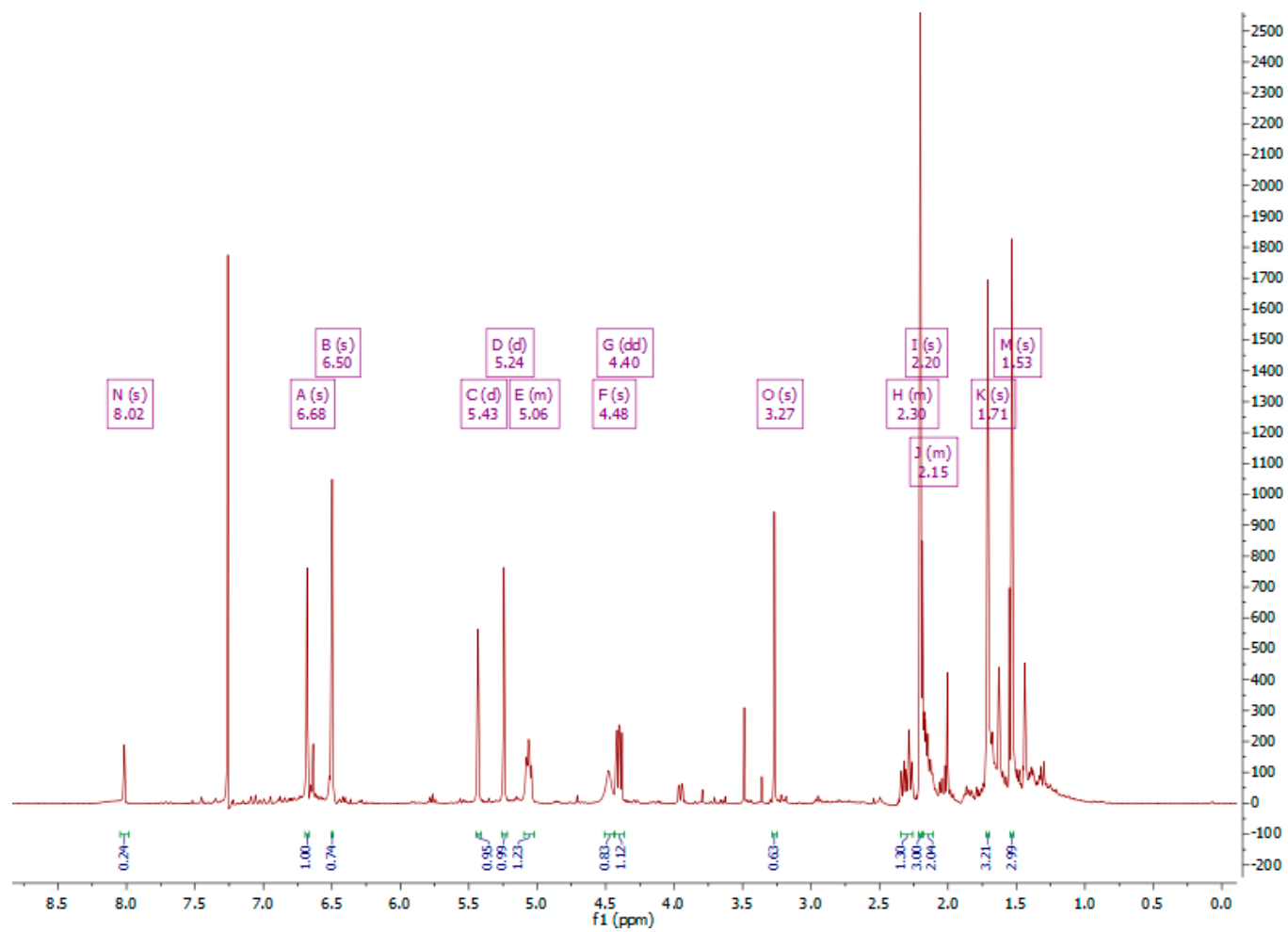


Figure S9 – ¹H-NMR spectrum for **Compound 3** (400 MHz, CDCl₃).

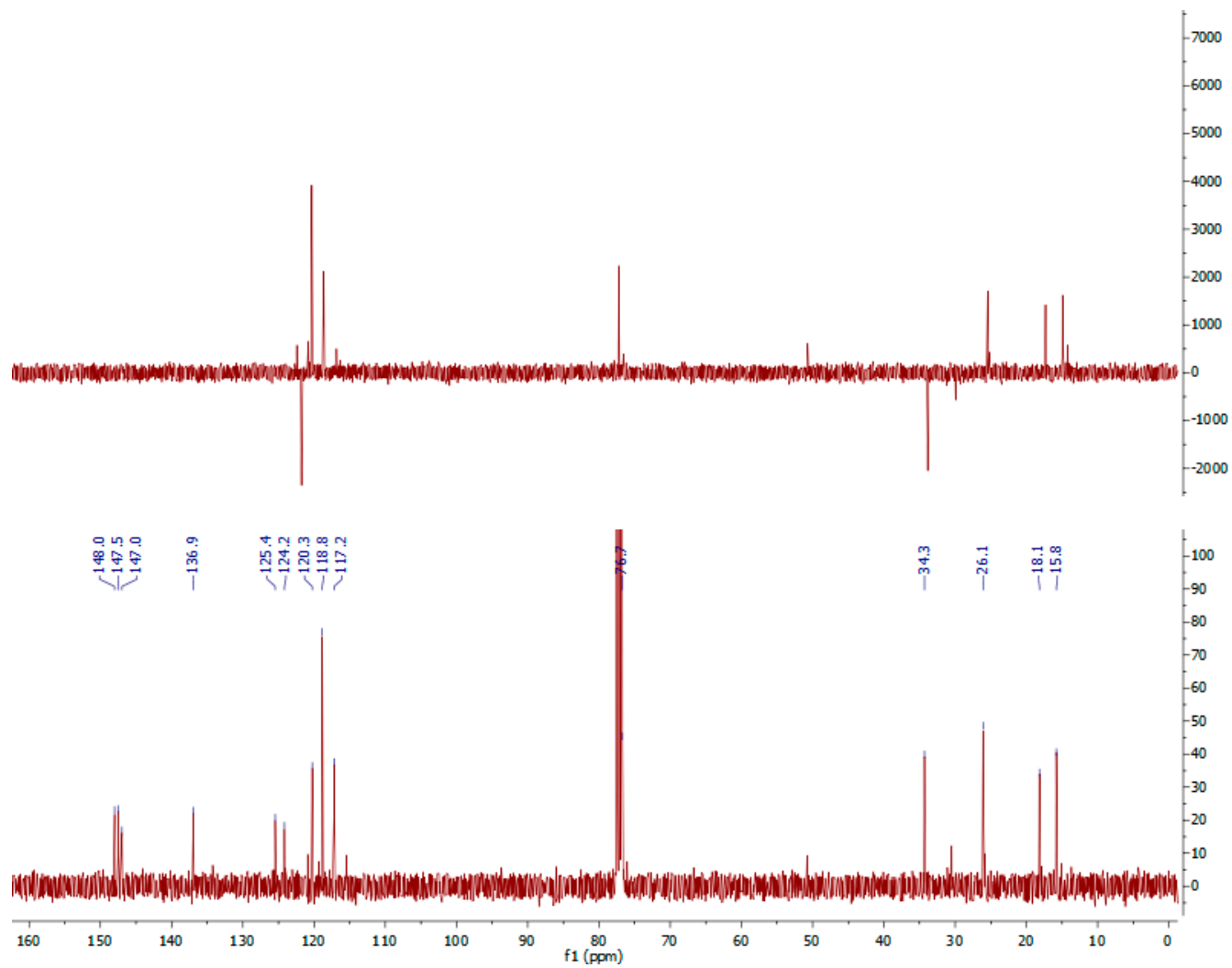


Figure S10 – DEPT and ^{13}C -NMR spectra for **Compound 3** (100 MHz, CDCl_3).

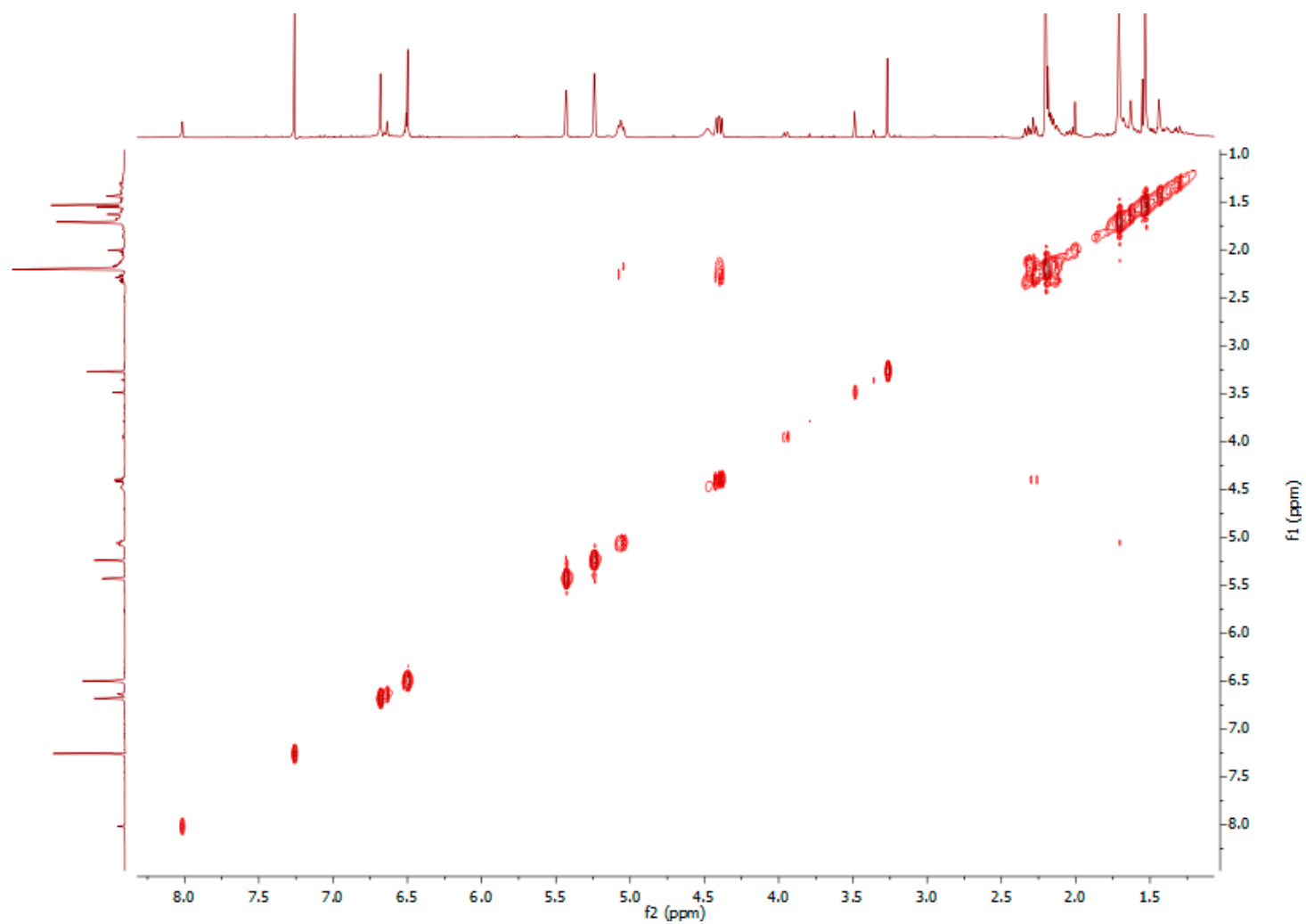


Figure S11 - g-COSY spectrum for **Compound 3** (400 MHz, CDCl_3).

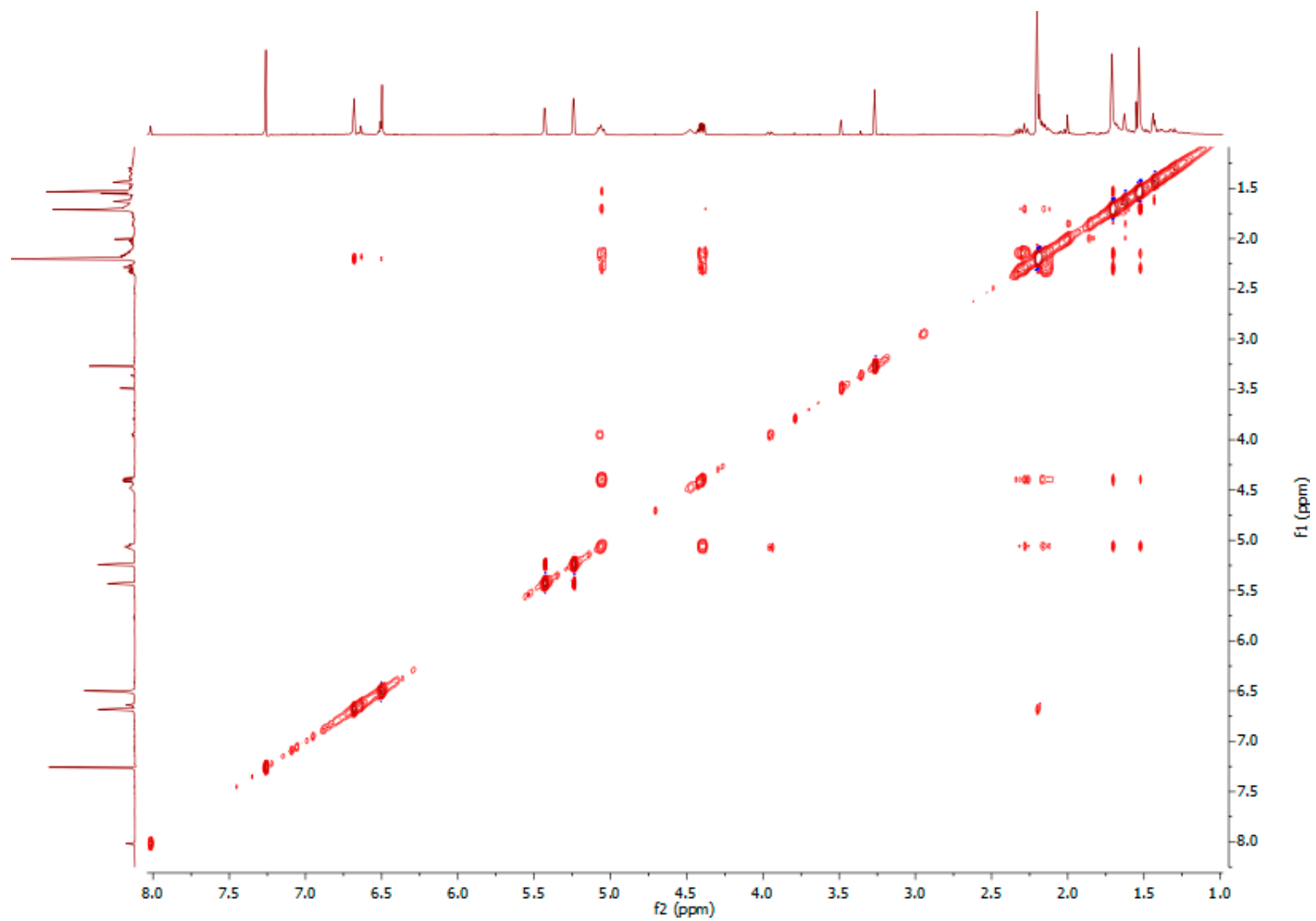


Figure S12 - TOCSY spectrum for **Compound 3** (400 MHz, CDCl₃).

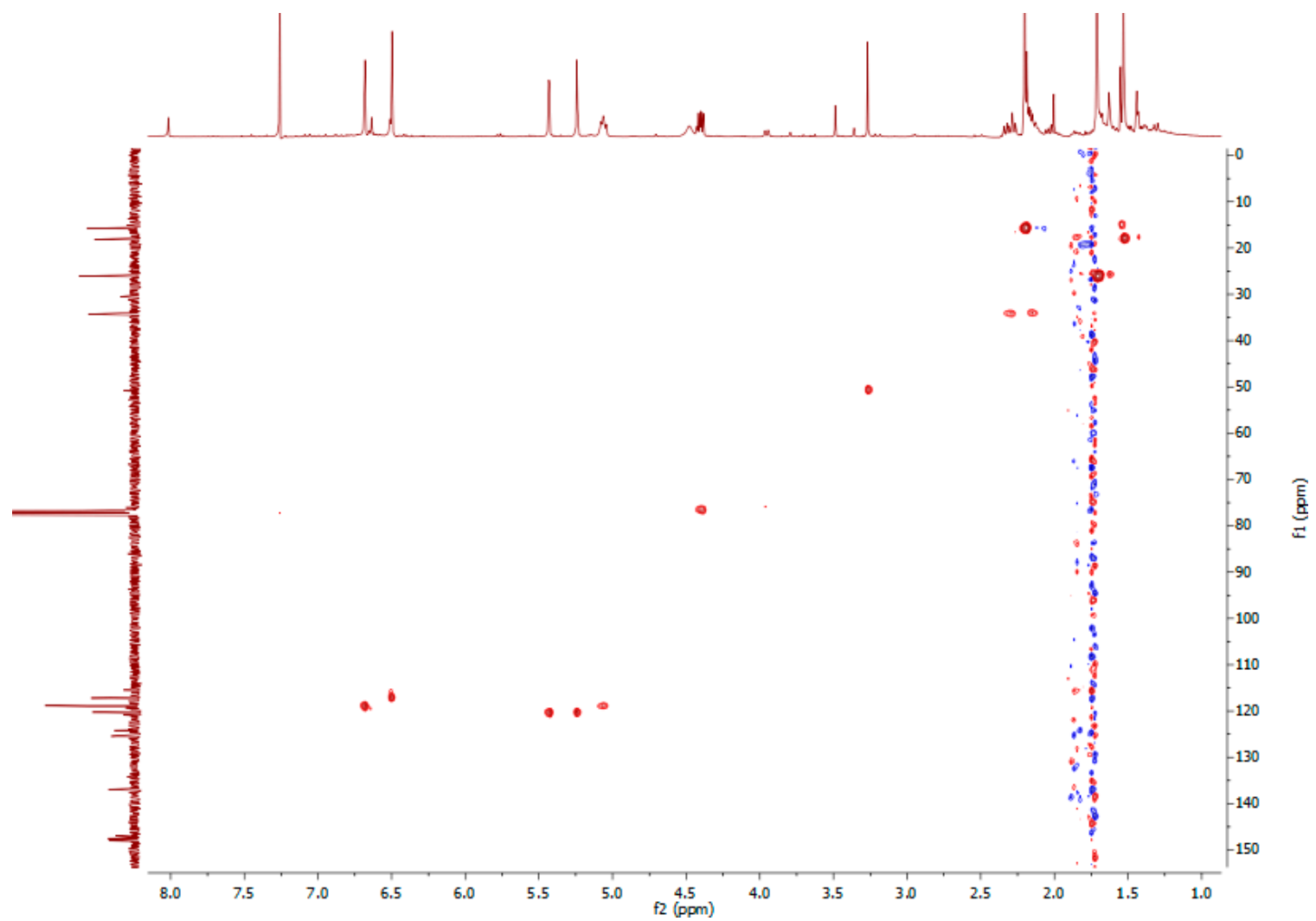


Figure S13 - g-HMPC spectrum for **Compound 3** (400 MHz, CDCl₃).

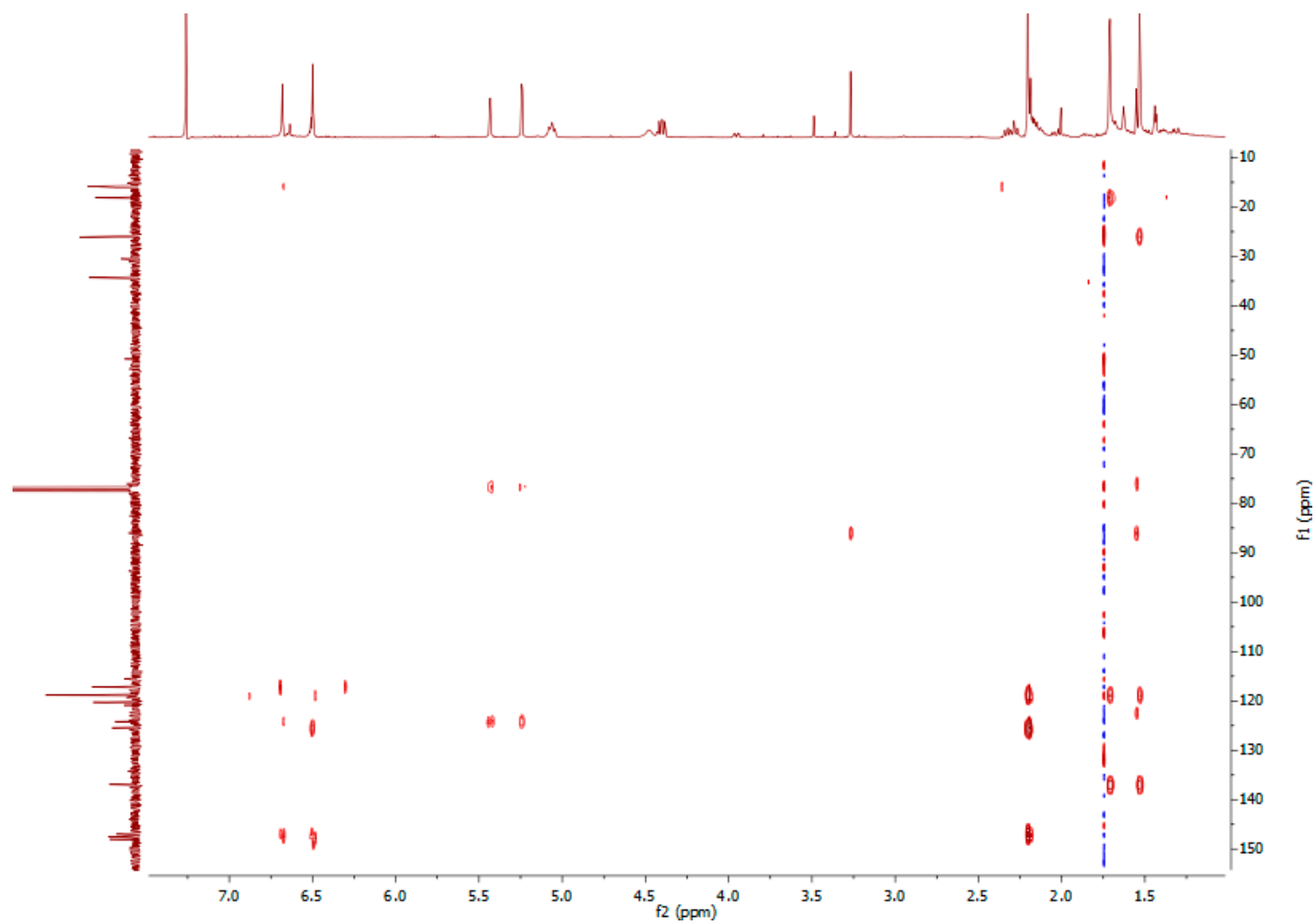


Figure S14 - g-HMBC spectrum for **Compound 3** (400 MHz, CDCl₃).

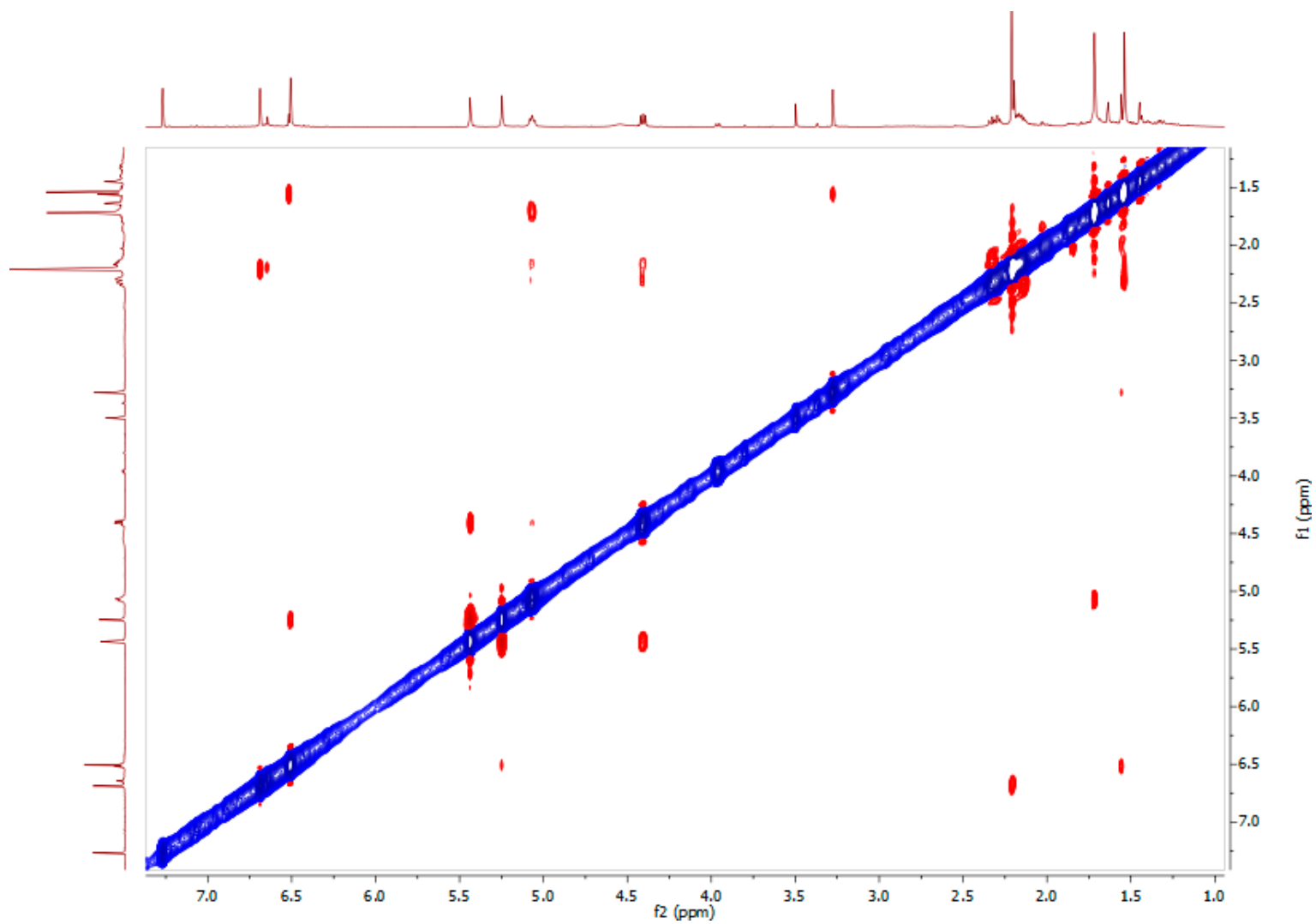


Figure S15 - NOESY spectrum for **Compound 3** (400 MHz, CDCl₃).

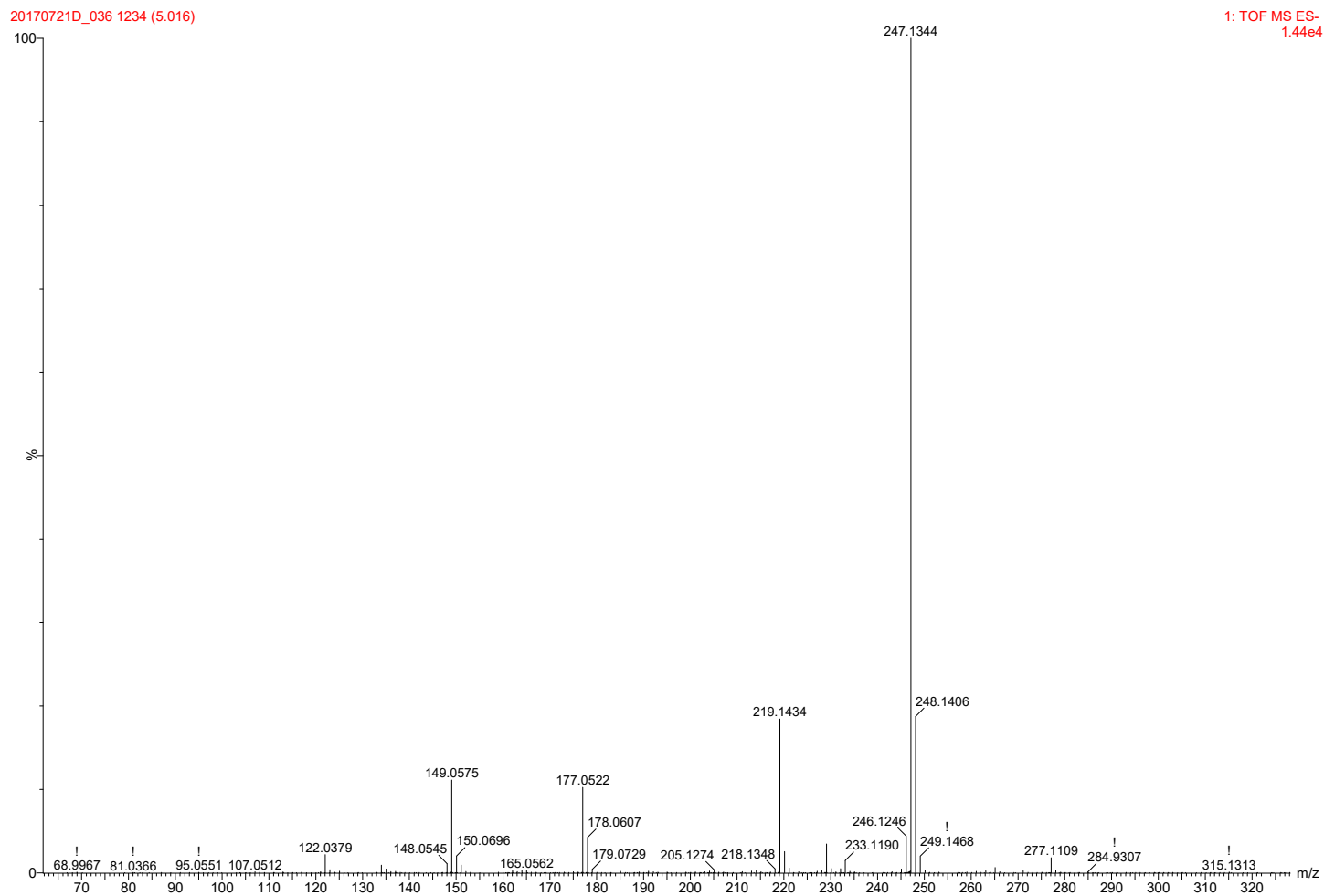


Figure S16 - (-)-HRESIMS spectrum for **Compound 3**.

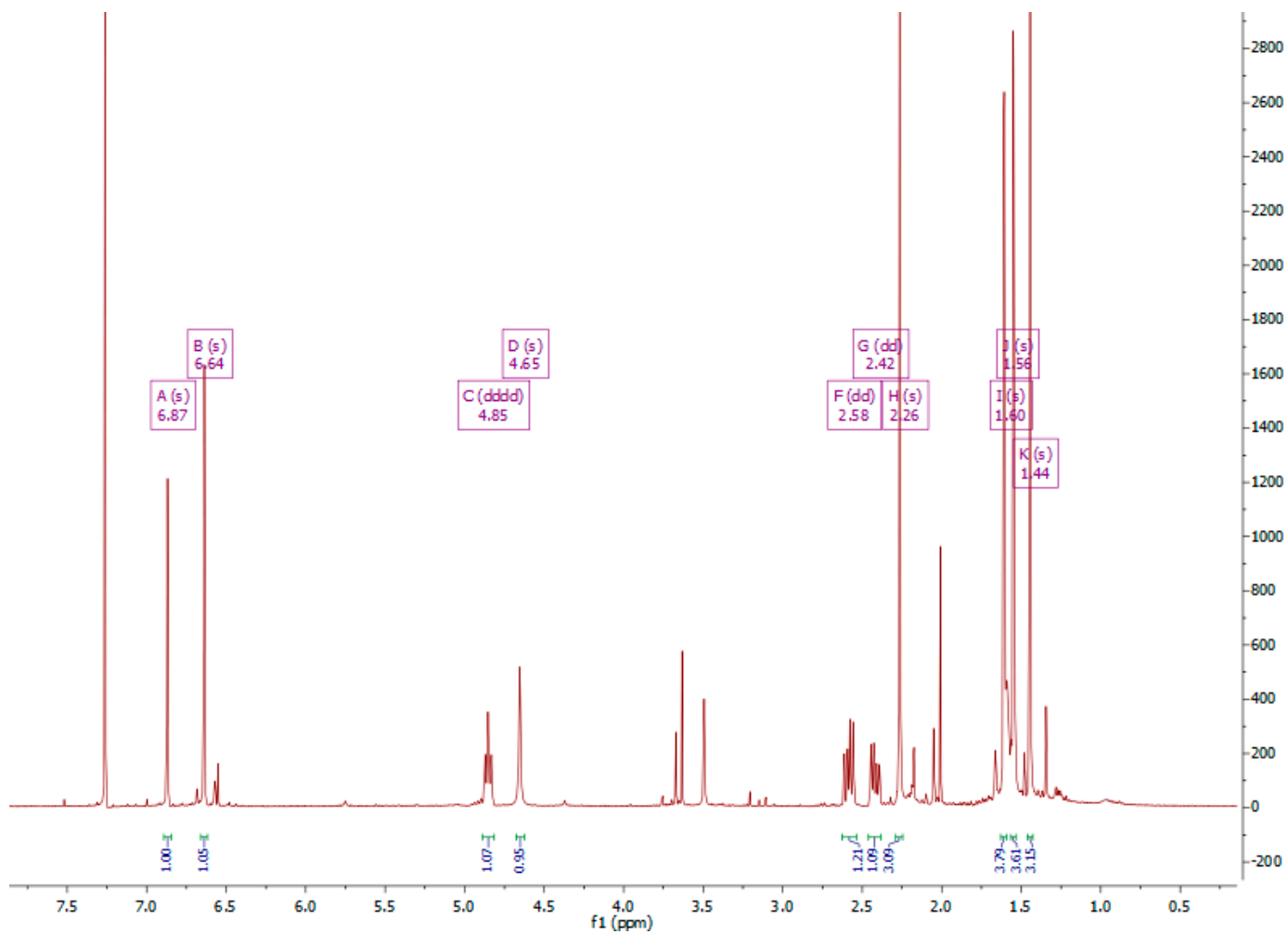


Figure S17 – ¹H-NMR spectrum for **Compound 4** (400 MHz, CDCl₃).

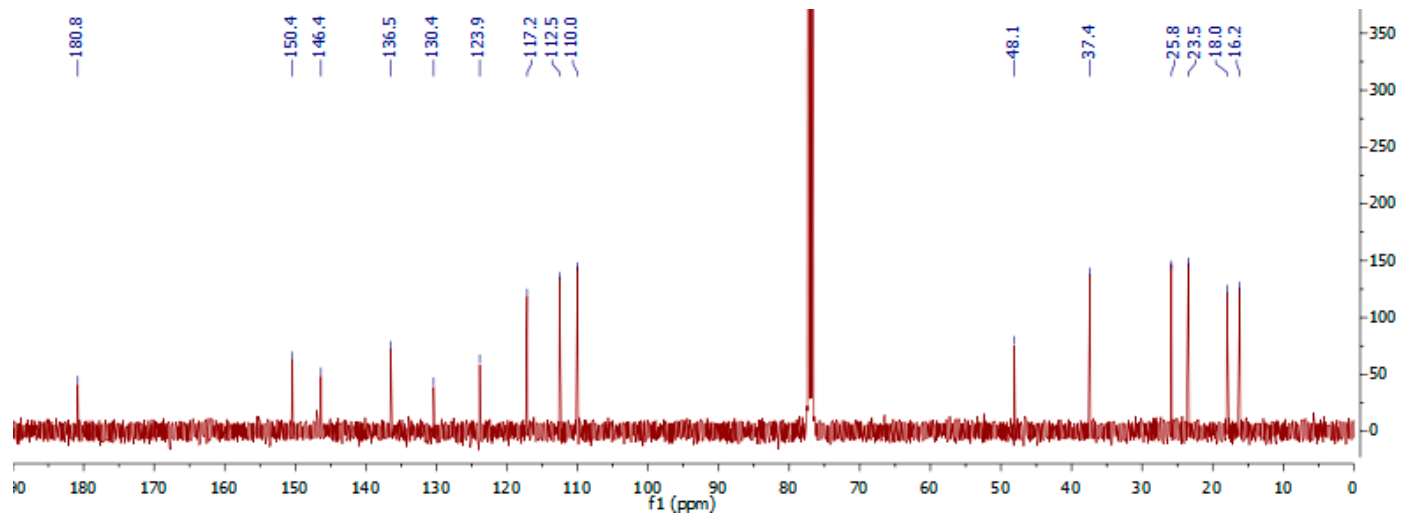


Figure S18 ^{13}C -NMR spectra for **Compound 4** (100 MHz, CDCl_3).

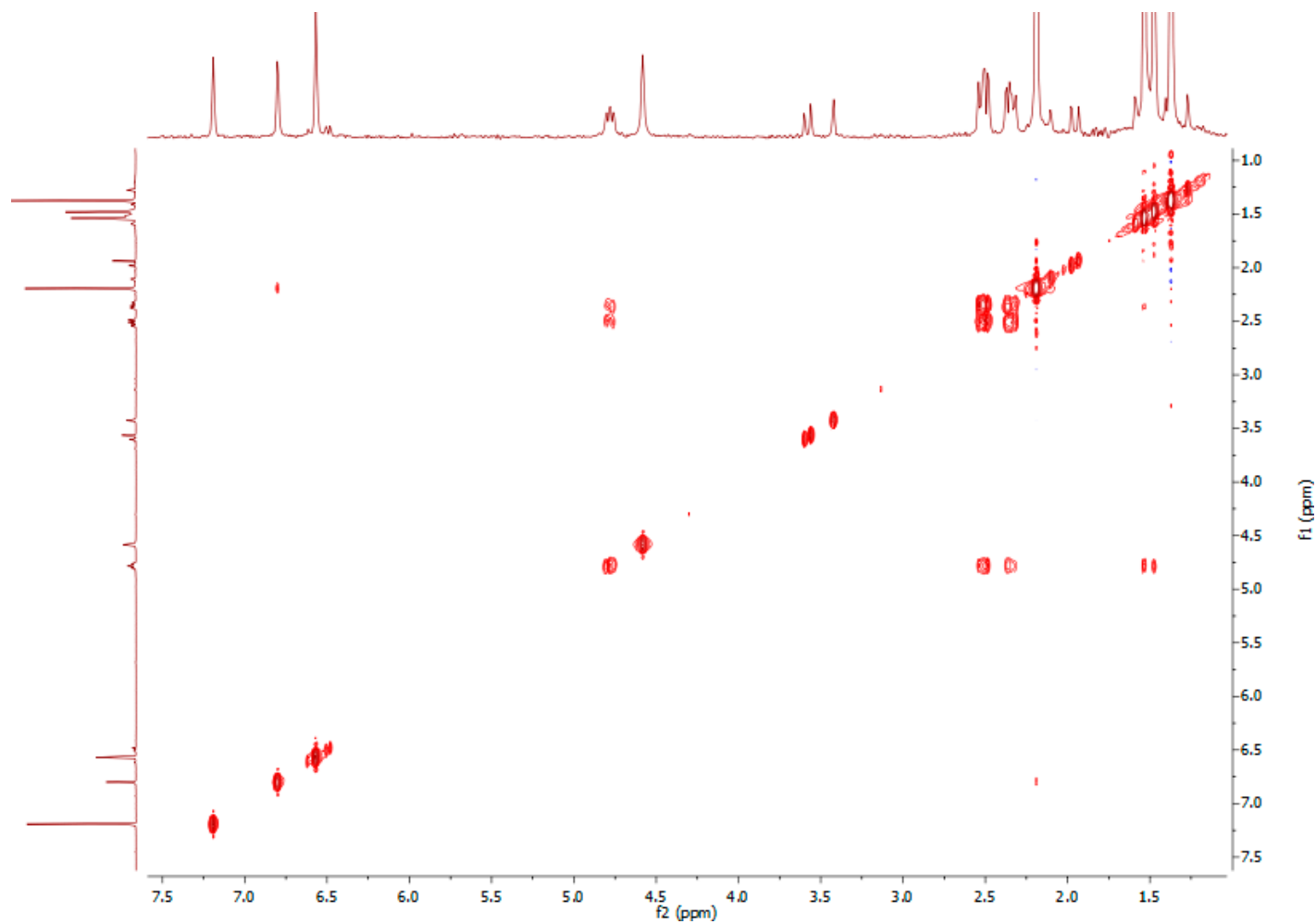


Figure S19 - g-COSY spectrum for **Compound 4** (400 MHz, CDCl₃).

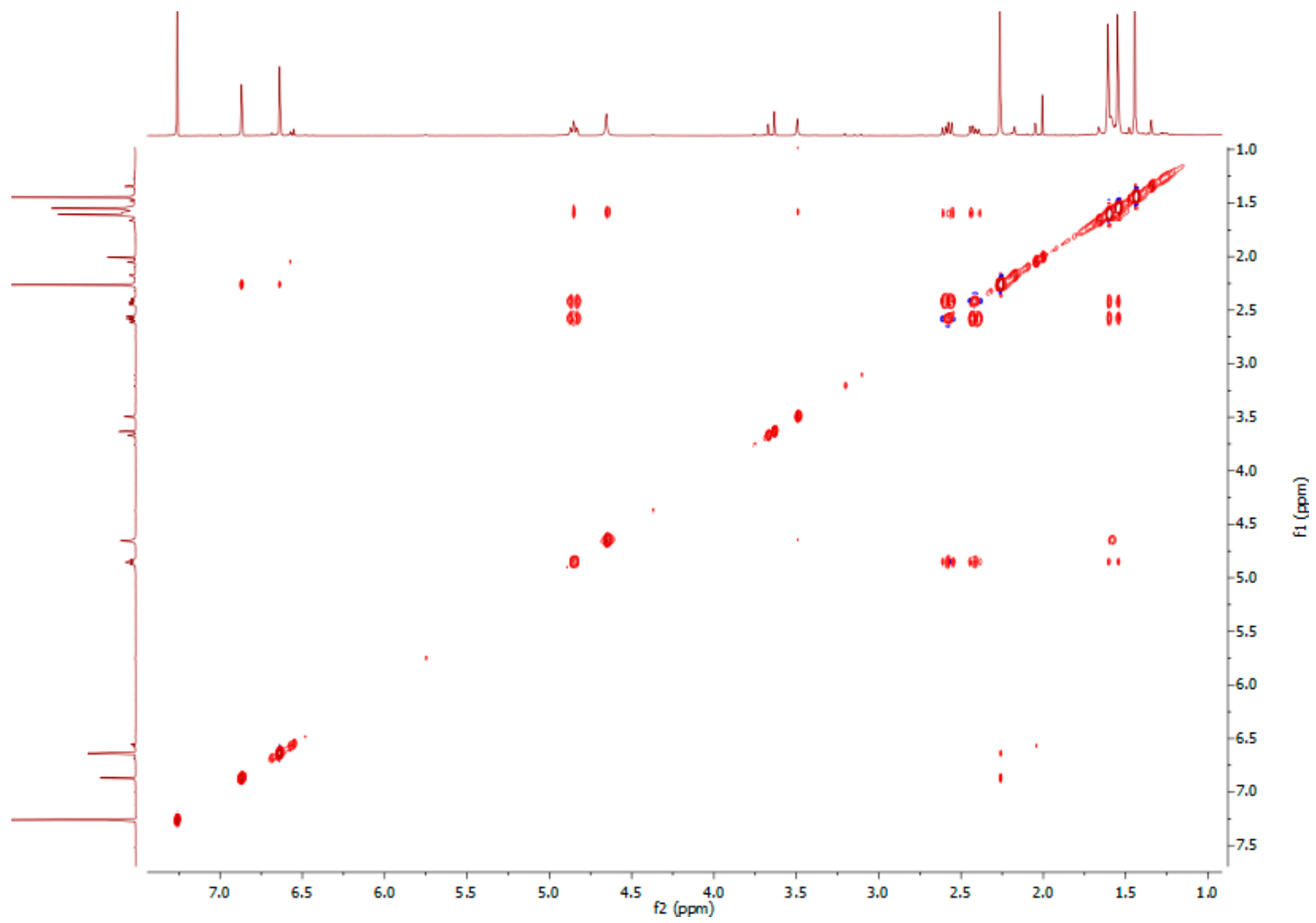


Figure S20 - TOCSY spectrum for **Compound 4** (400 MHz, CDCl₃).

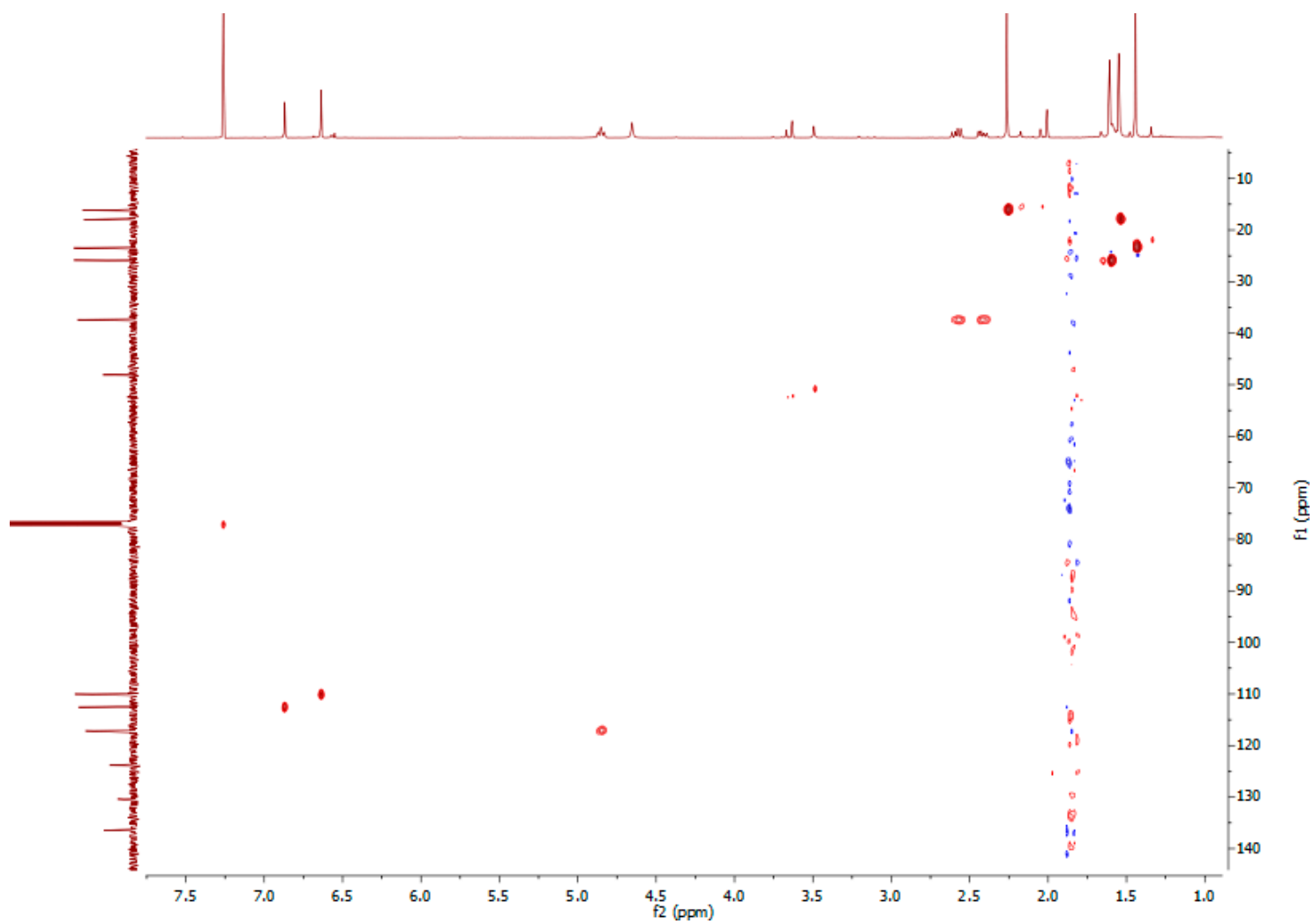


Figure S21 - g-HMQC spectrum for **Compound 4** (400 MHz, CDCl₃).

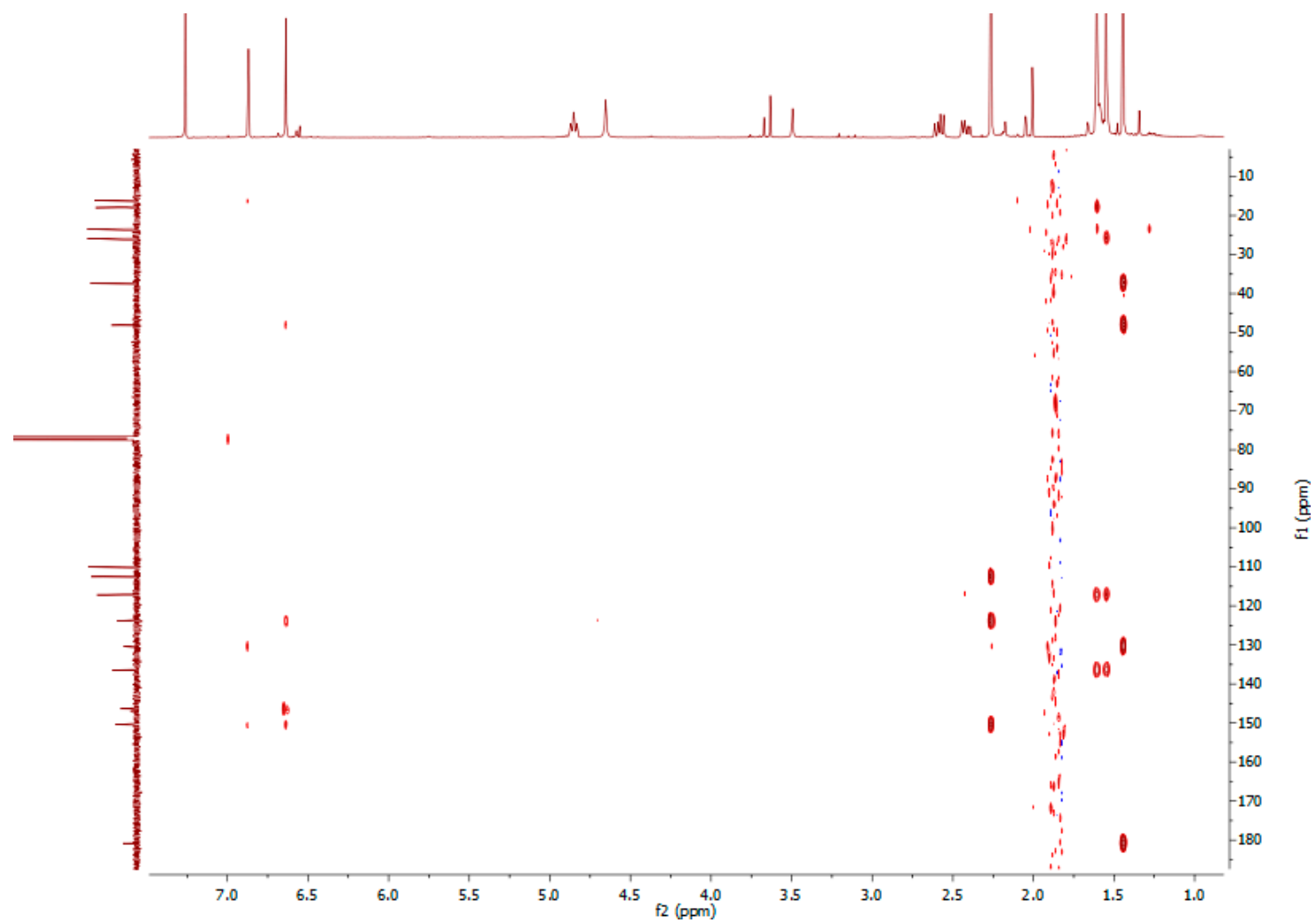


Figure S22 - g-HMBC spectrum for **Compound 4** (400 MHz, CDCl₃).

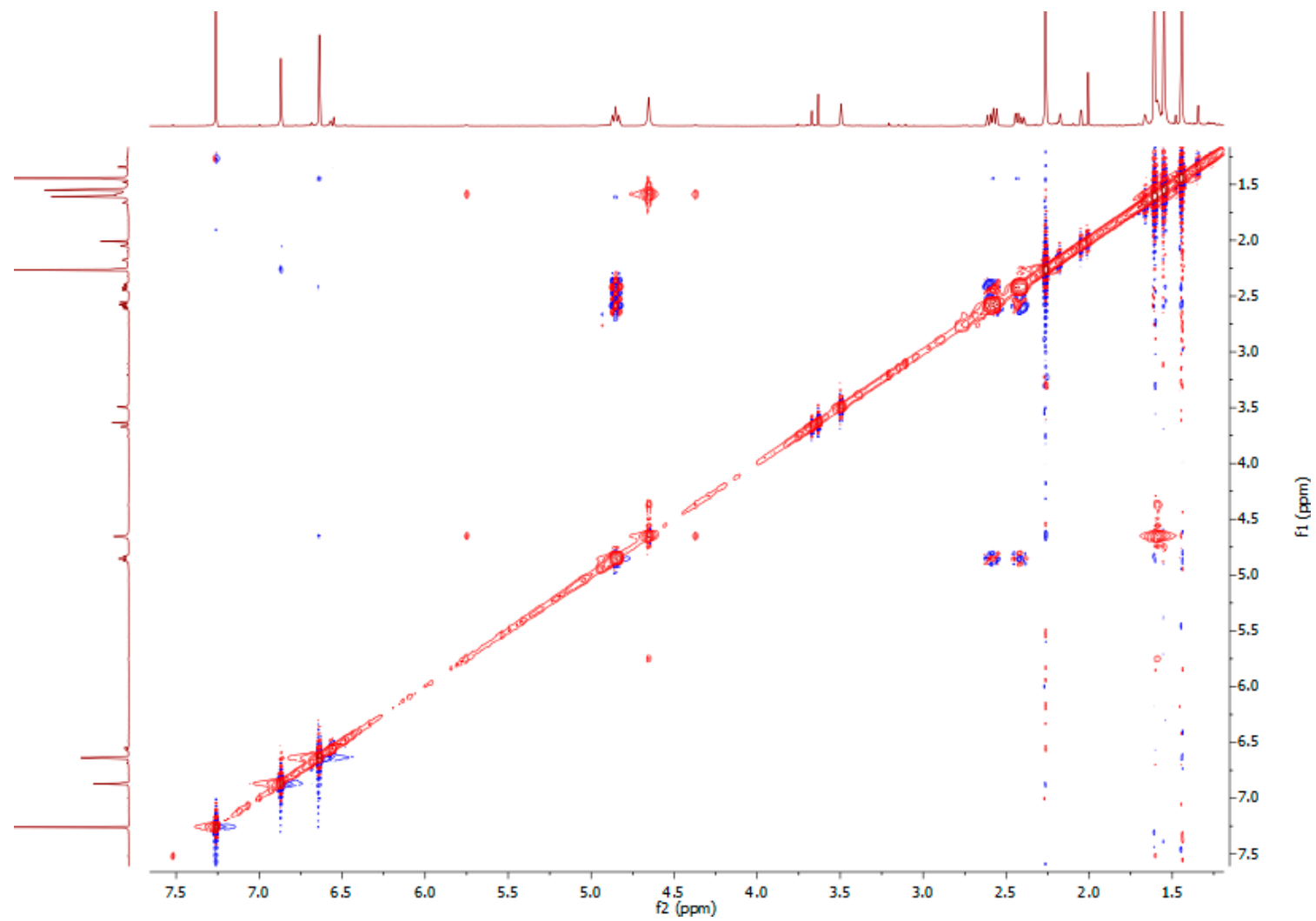


Figure S23 - NOESY spectrum for **Compound 4** (400 MHz, CDCl₃).

20170721D_041 1533 (6.231)

1: TOF MS ES-
5.58e4

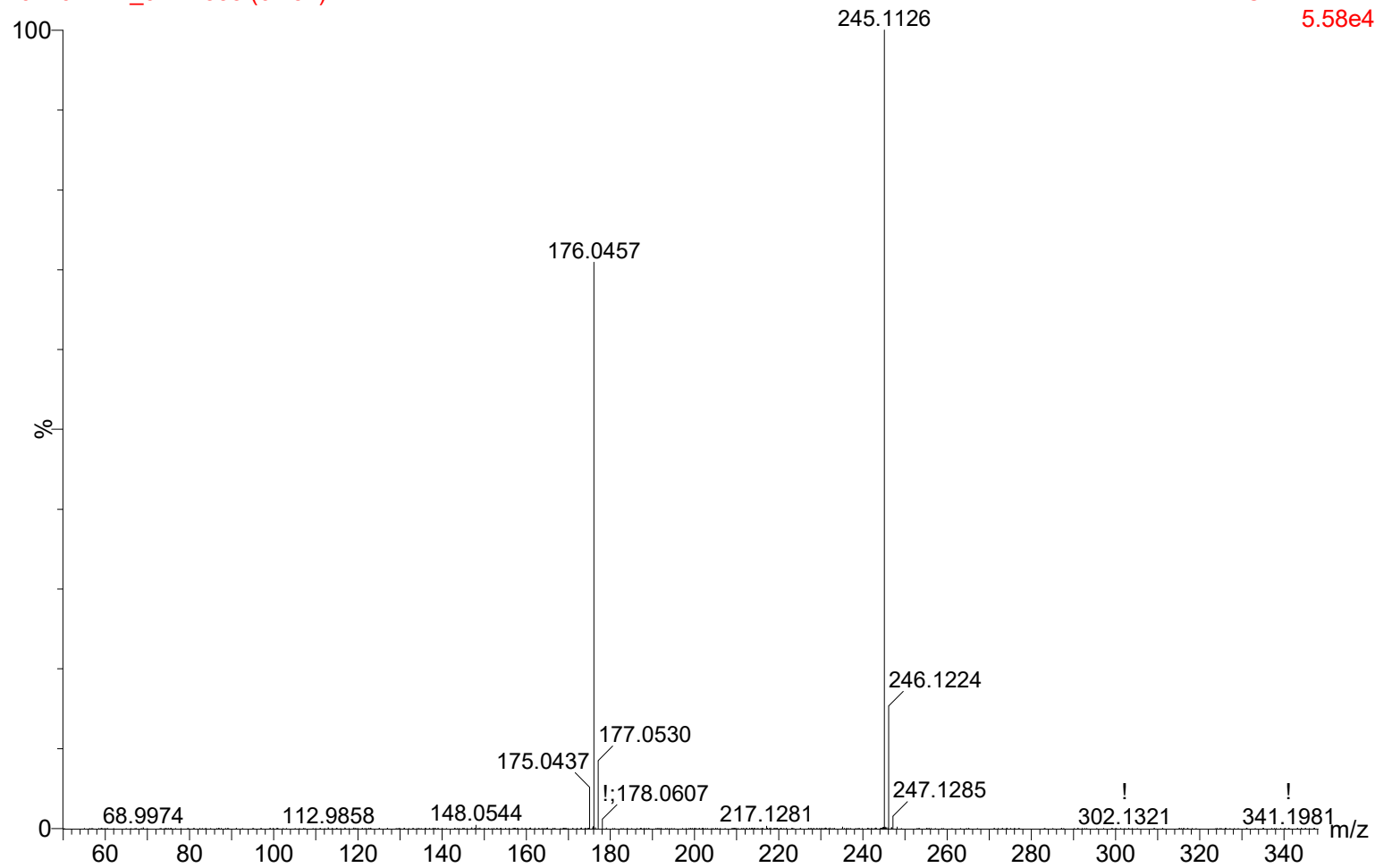


Figure S24 - HRESIMS spectrum for **Compound 4**.

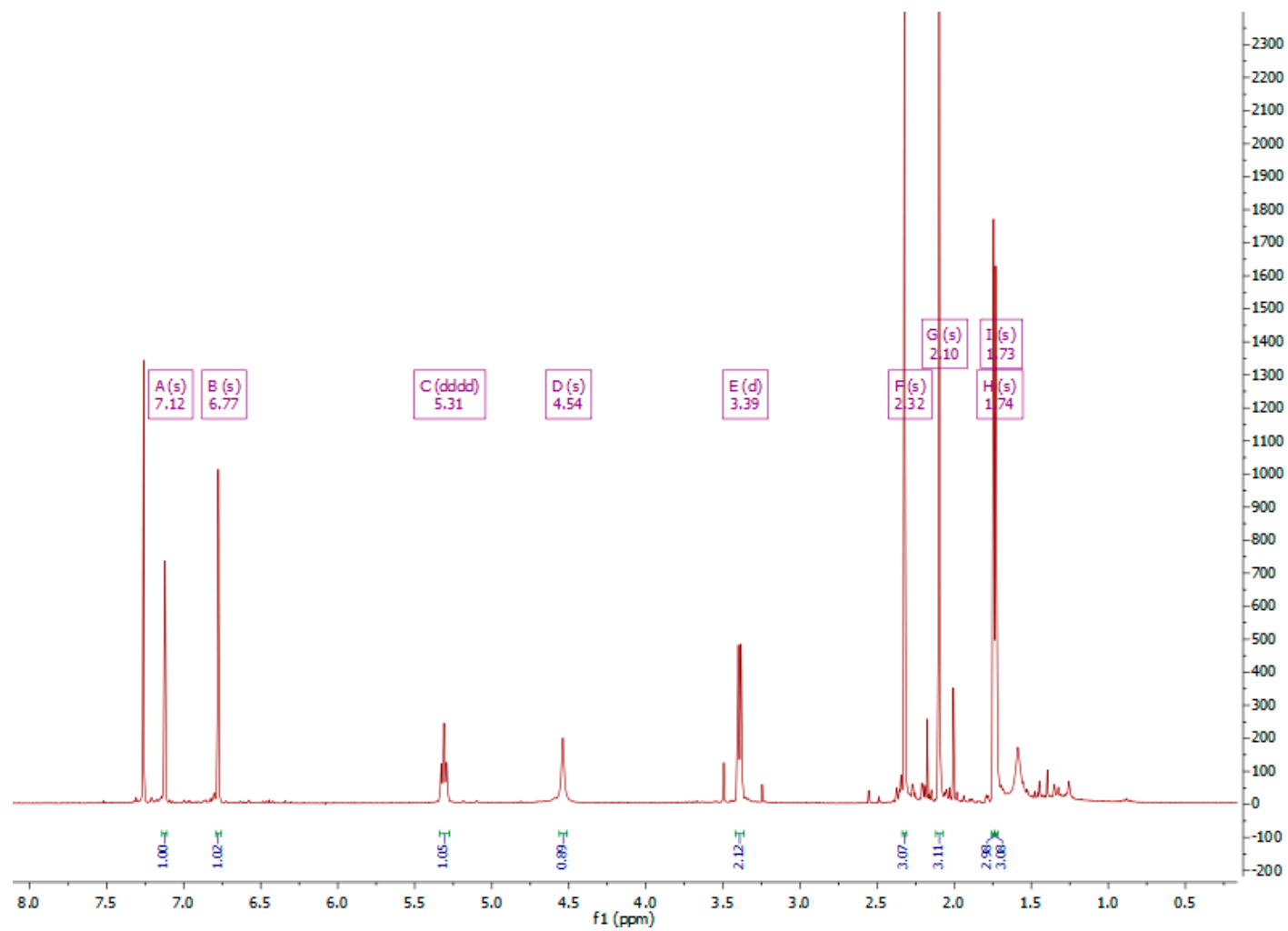


Figure 25 – ¹H-NMR spectrum for **Compound 5** (400 MHz, CDCl₃).

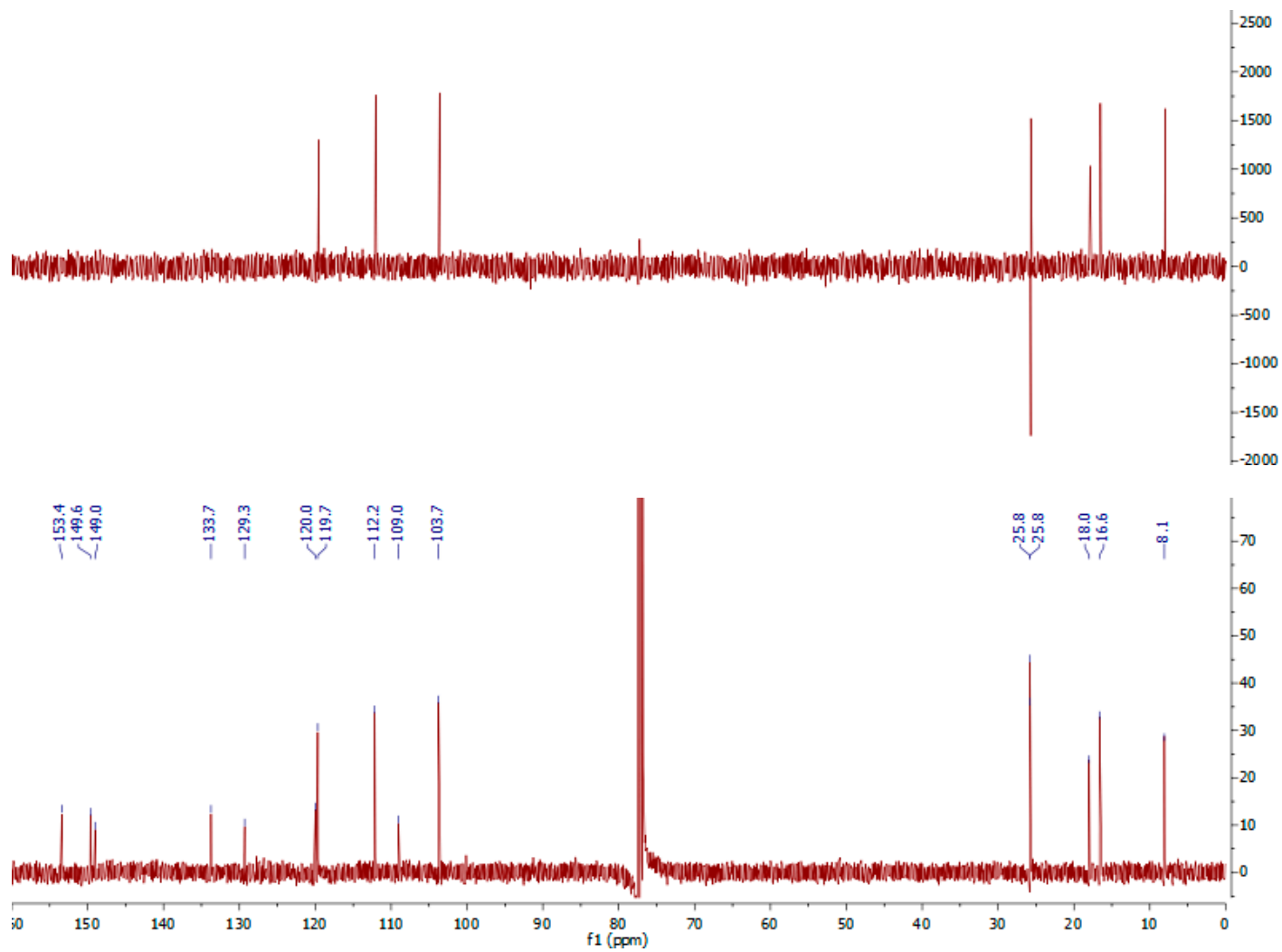


Figure 26 – DEPT and ¹³C-NMR spectra for **Compound 5** (100 MHz, CDCl₃).

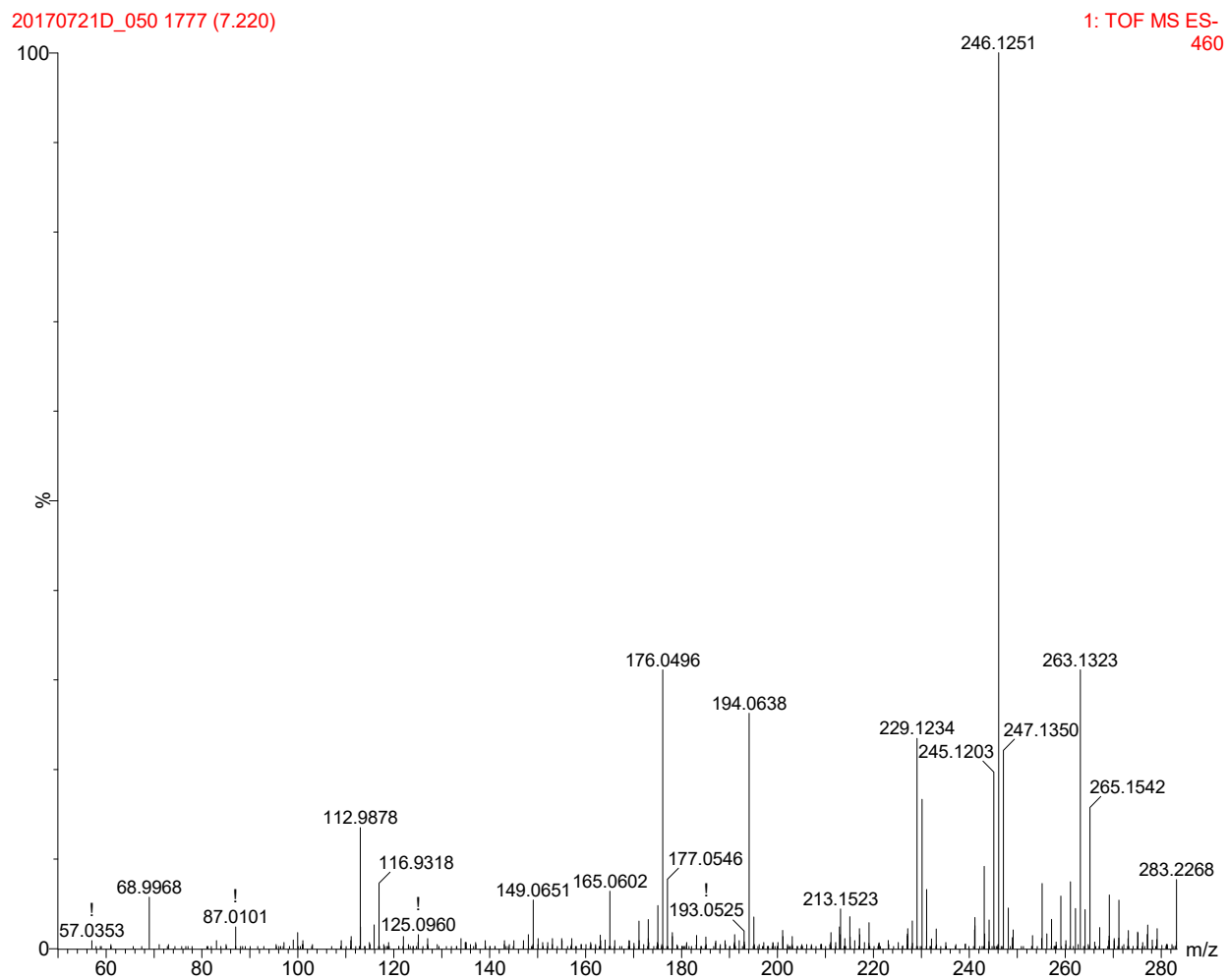


Figure S27 - HRESIMS spectrum for **Compound 5**.

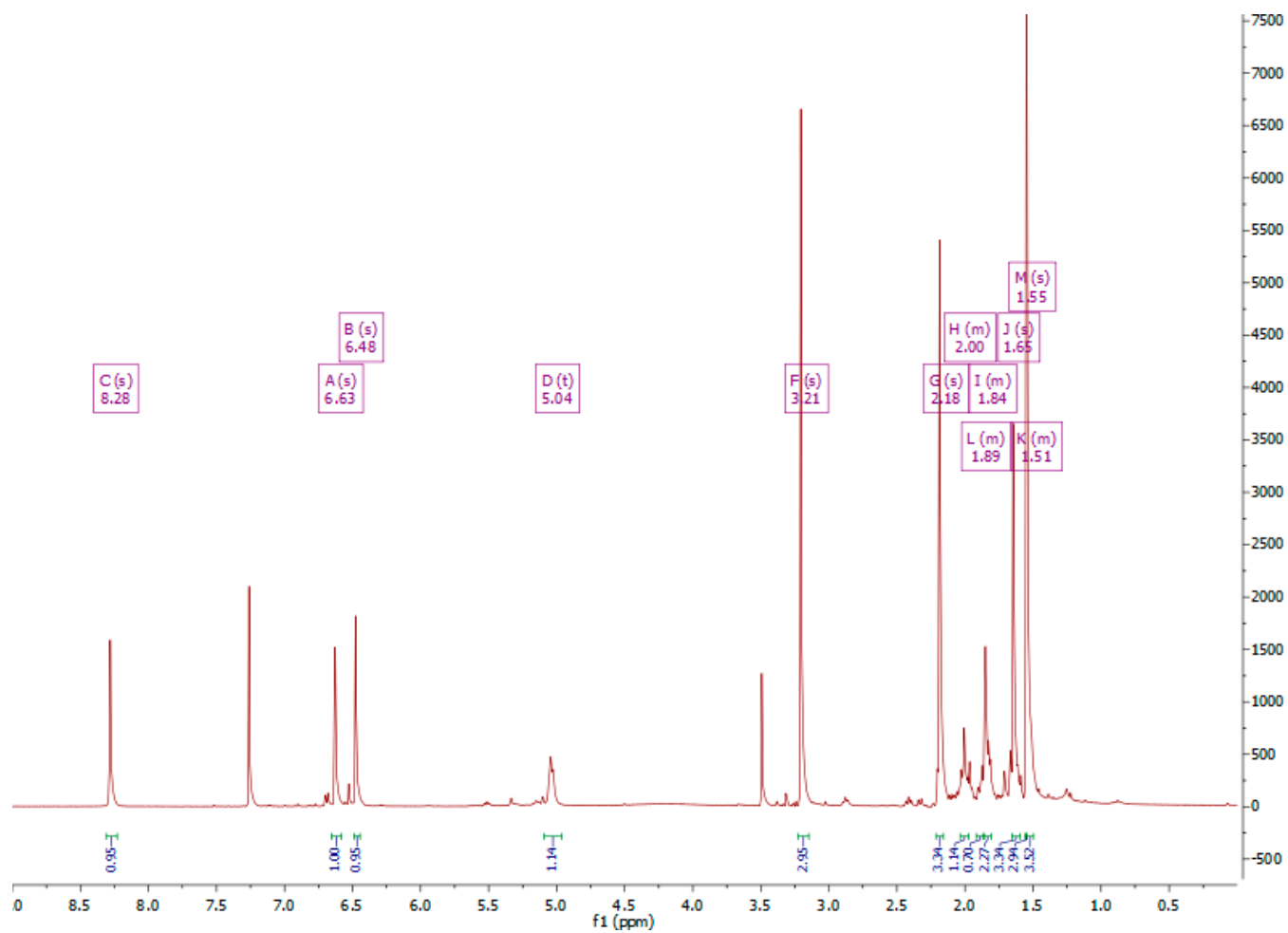


Figure S28 – ¹H-NMR spectrum for **Compound 6** (400 MHz, CD₃OD).

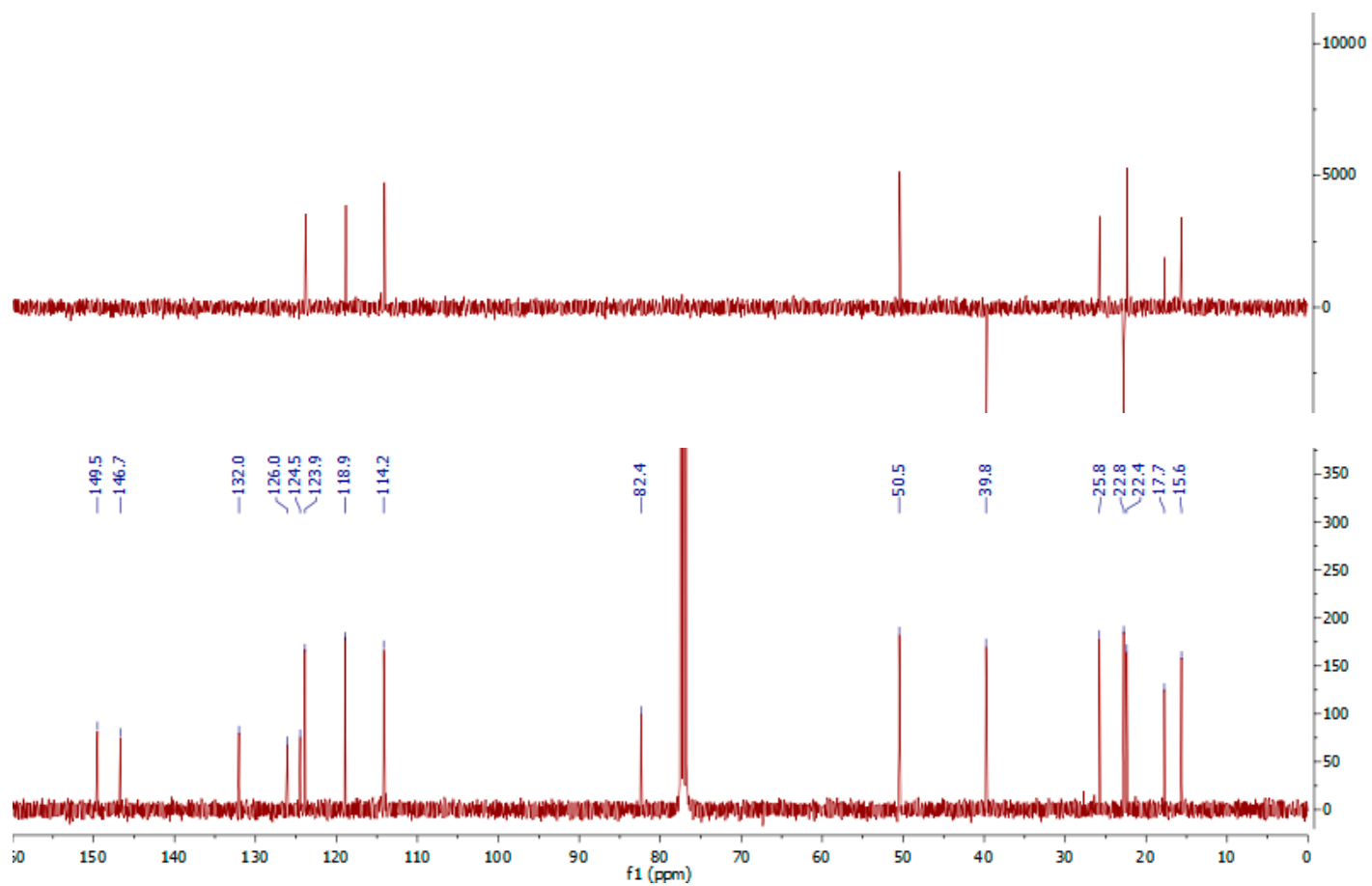


Figure S29 – DEPT and ^{13}C -NMR spectra for **Compound 6** (100 MHz, CD₃OD).

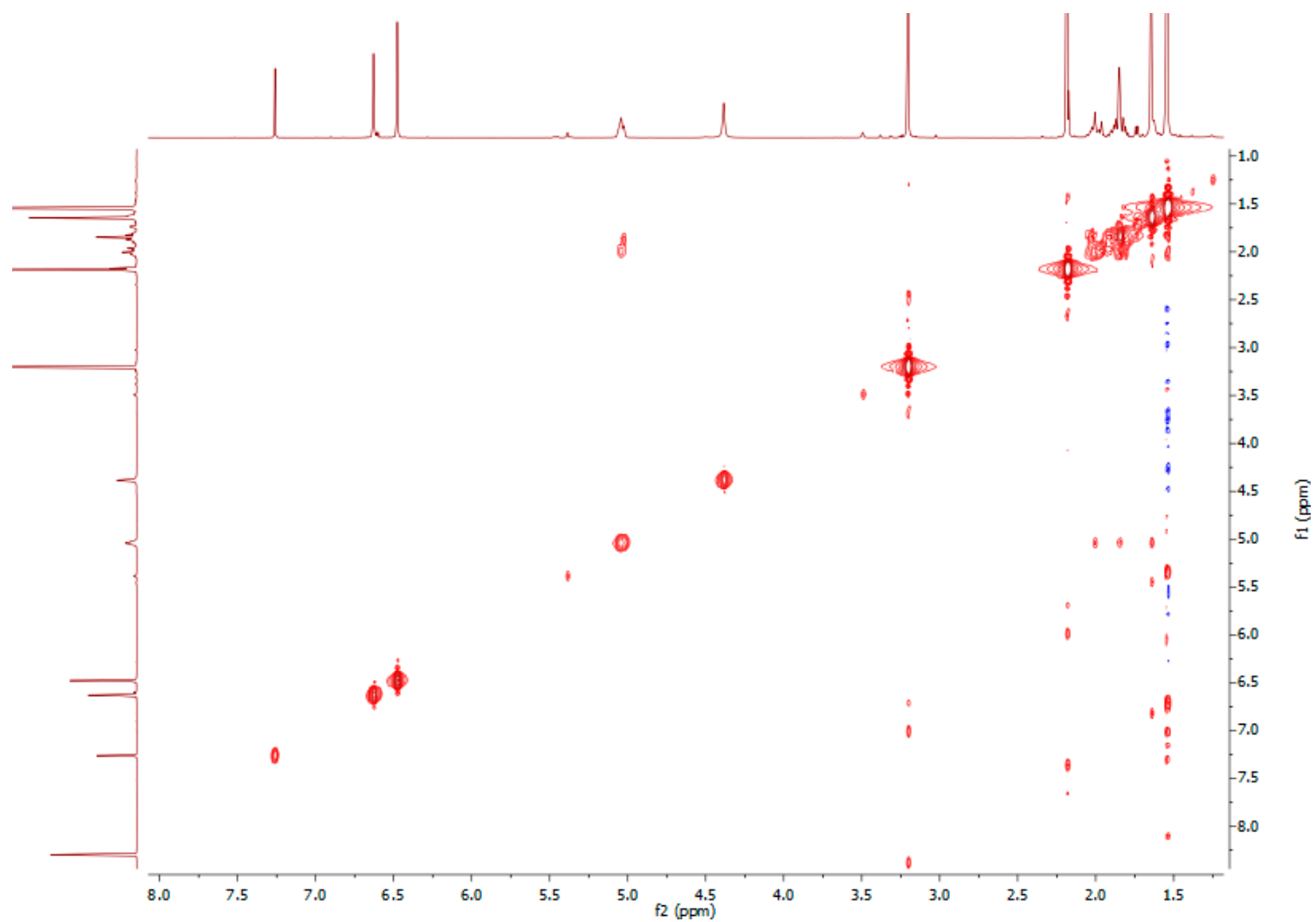


Figure S30 - g-COSY spectrum for **Compound 6** (400 MHz, CD₃OD).

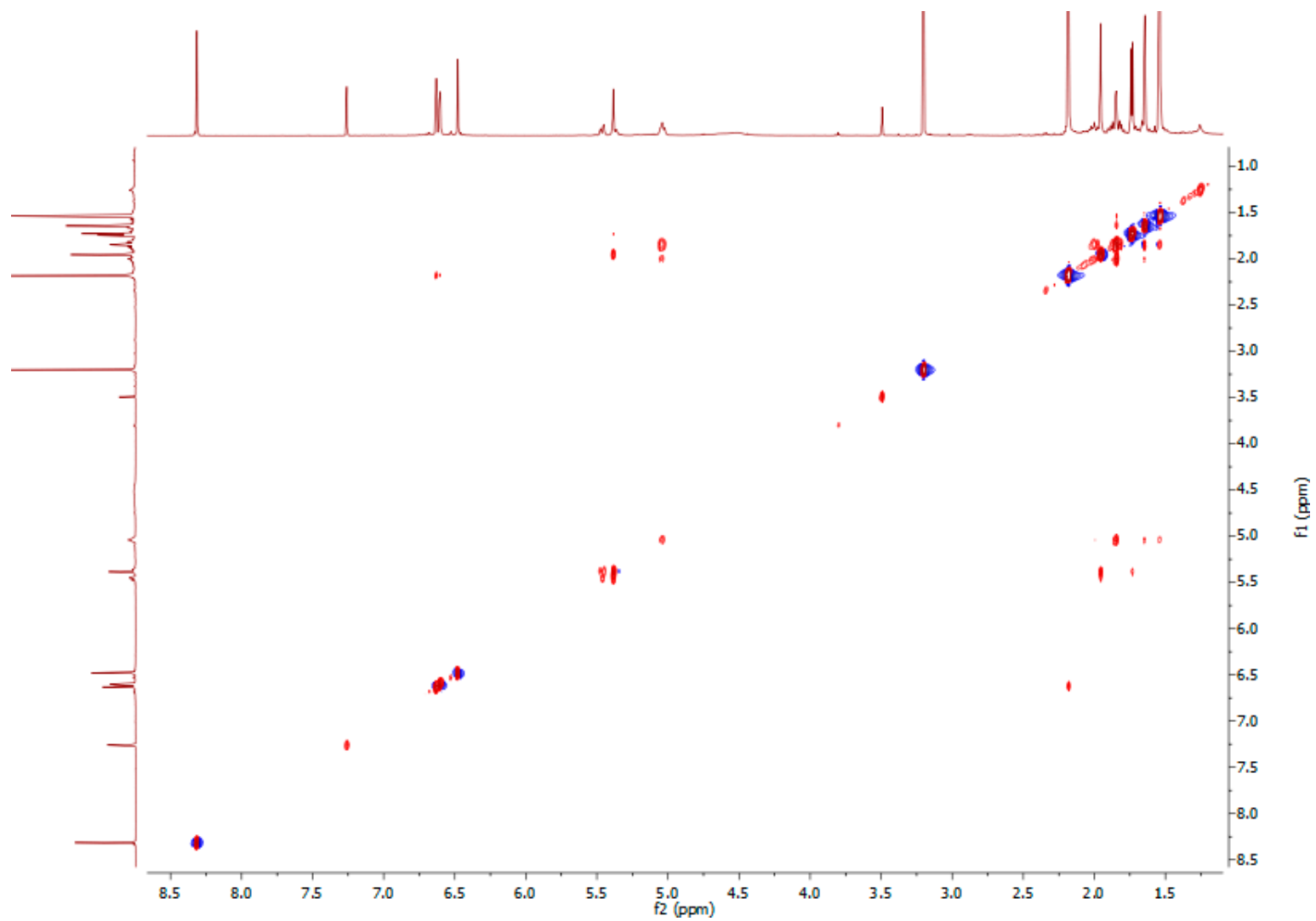


Figure S31 - TOCSY spectrum for **Compound 6** (400 MHz, CD₃OD).

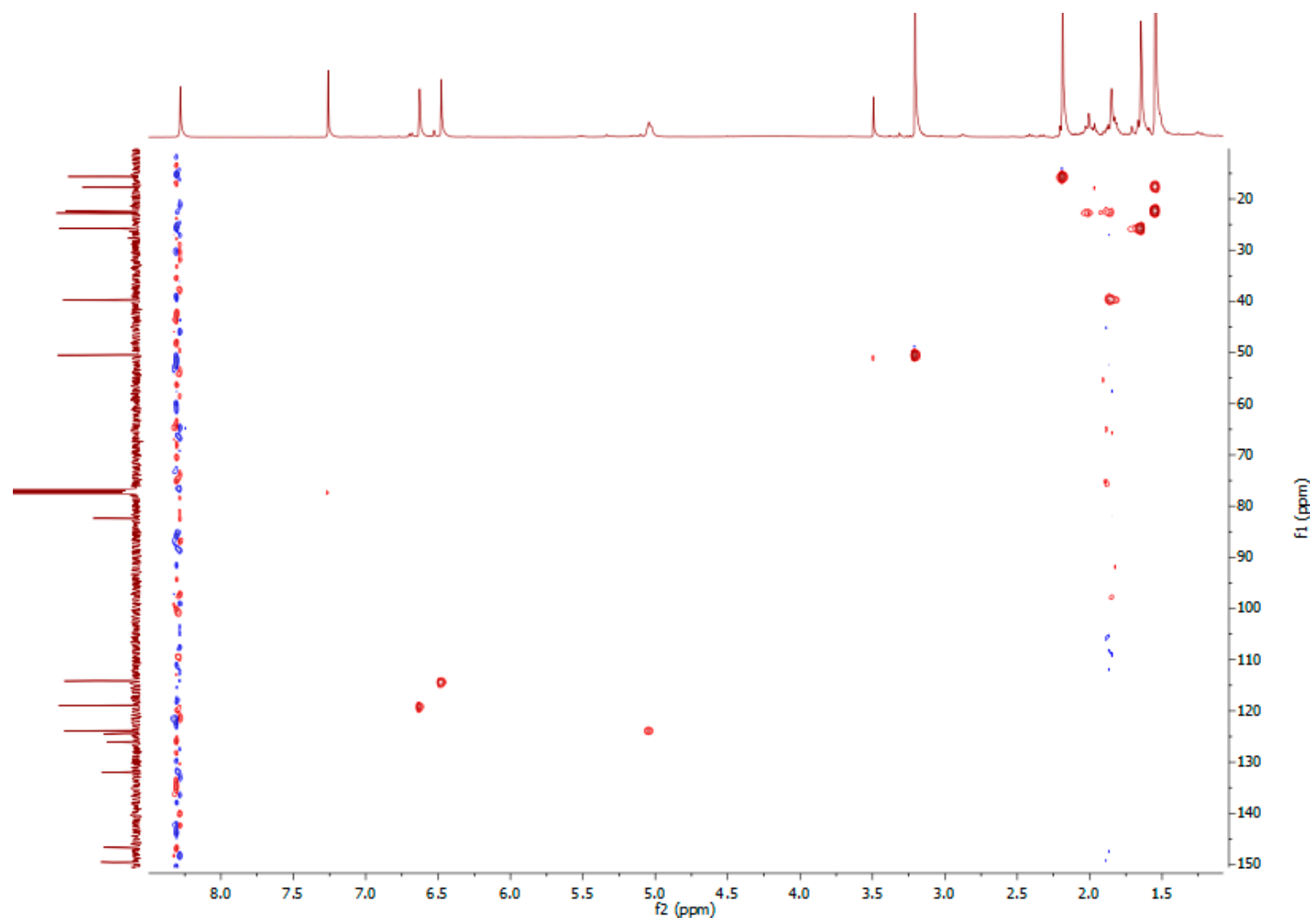


Figure S32 - g-HMOC spectrum for **Compound 6** (400 MHz, CD₃OD).

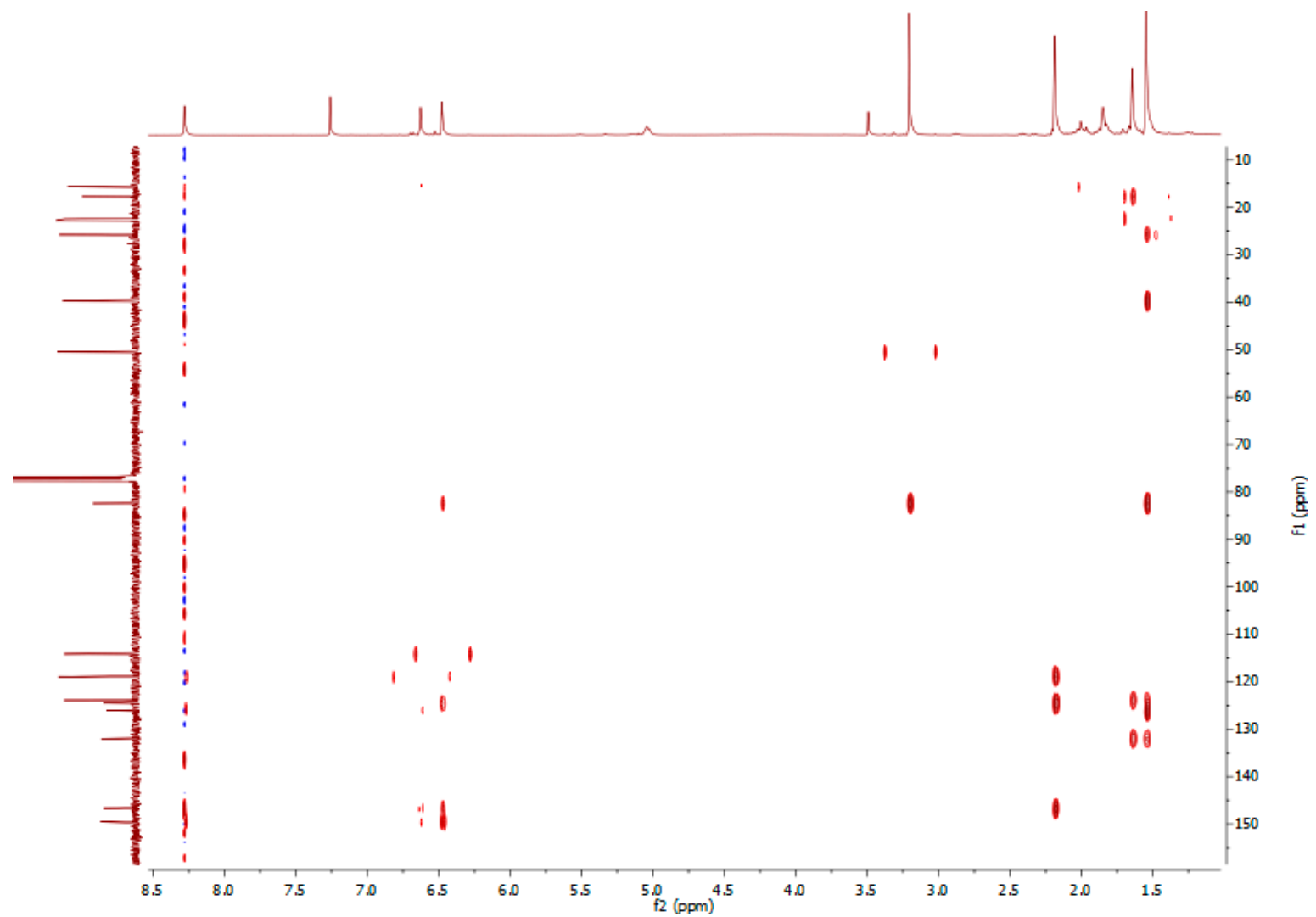


Figure 33 - g-HMBC spectrum for **Compound 6** (400 MHz, CD₃OD).

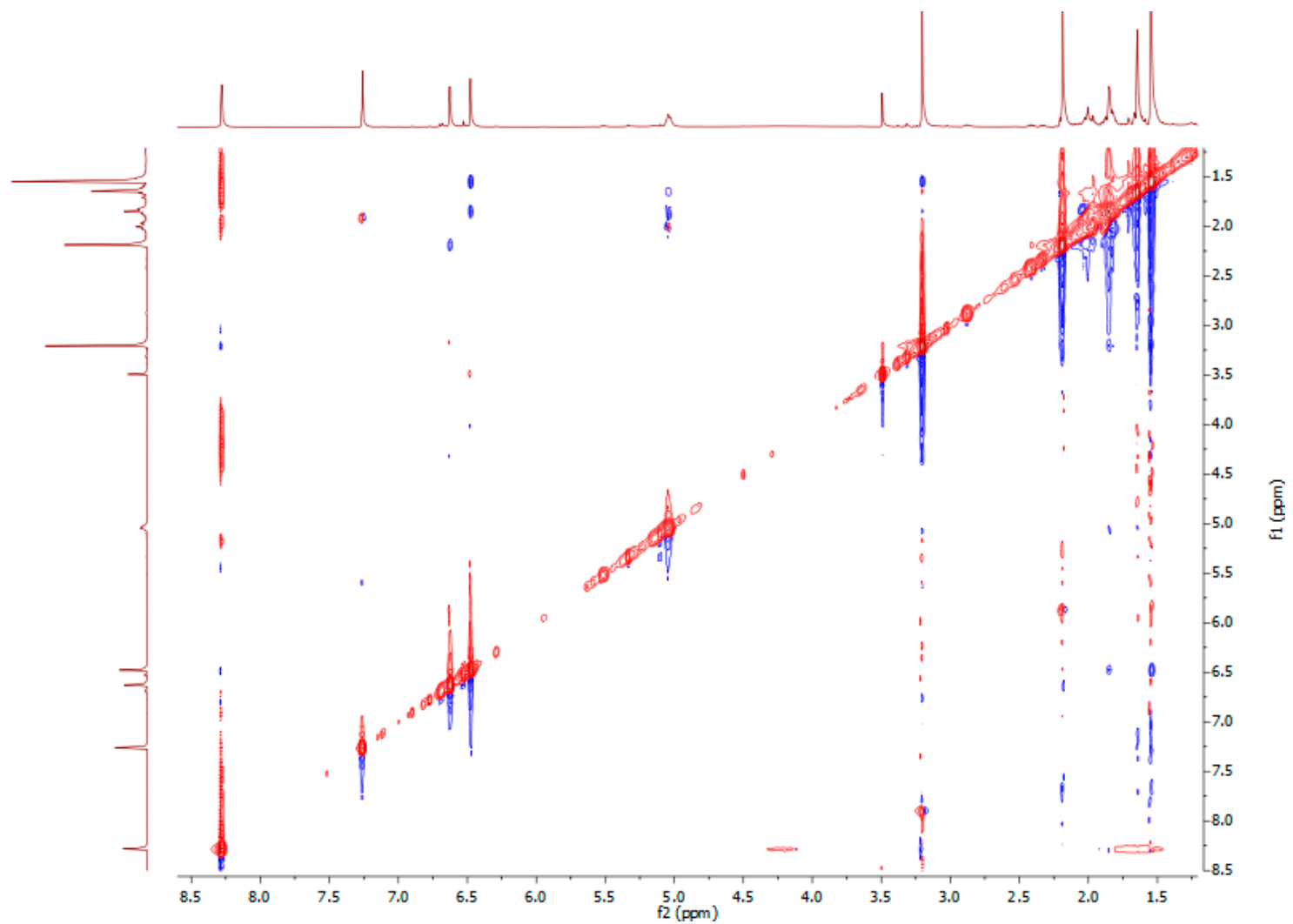


Figure 34 - NOESY spectrum for **Compound 6** (400 MHz, CD₃OD).

20170721D_053 1658 (6.737) Cm (1651:1662-1666:1684)

1: TOF MS ES-
5.53e3

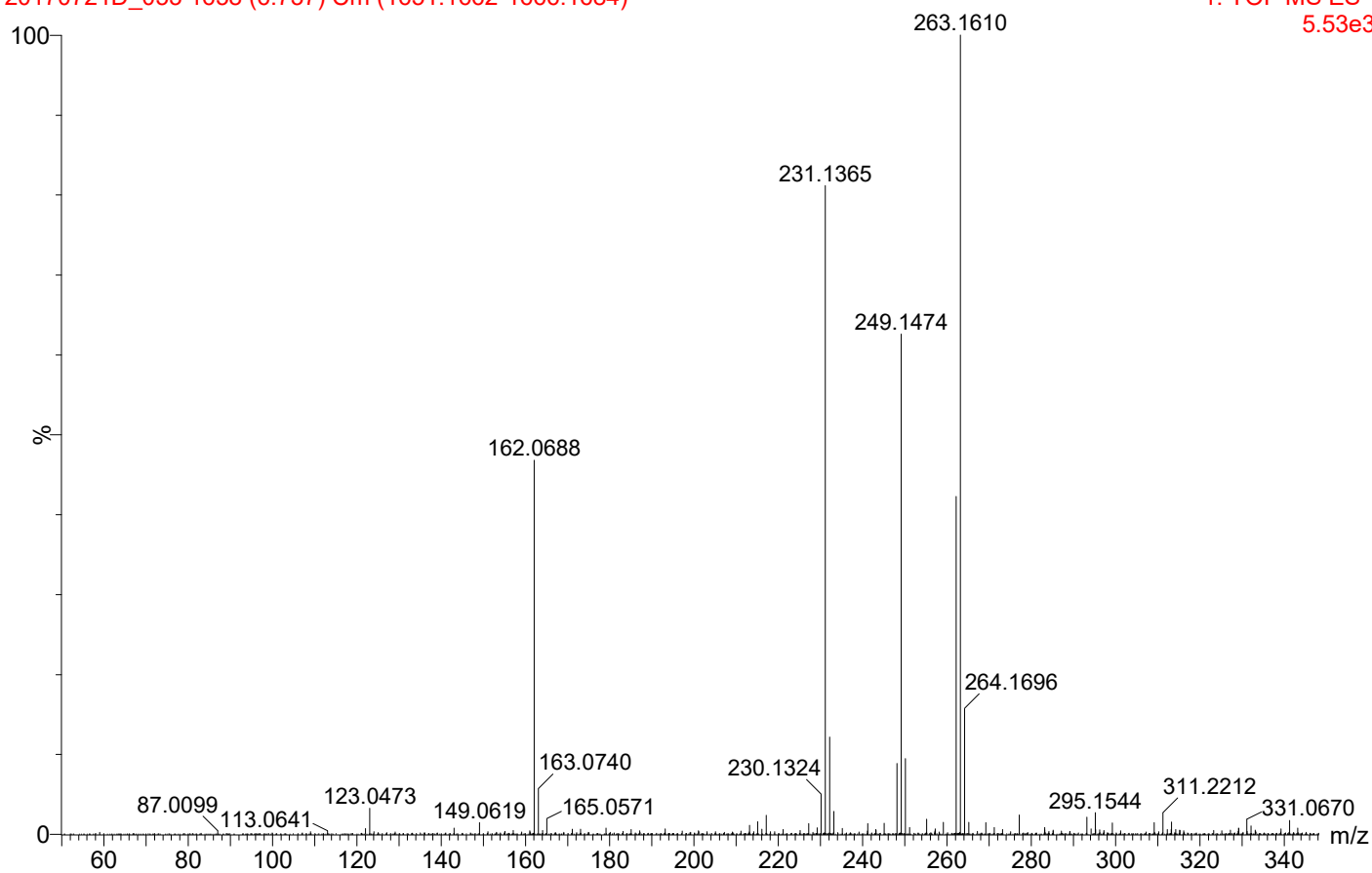


Figure S35 - HRESIMS spectrum for **Compound 6**.

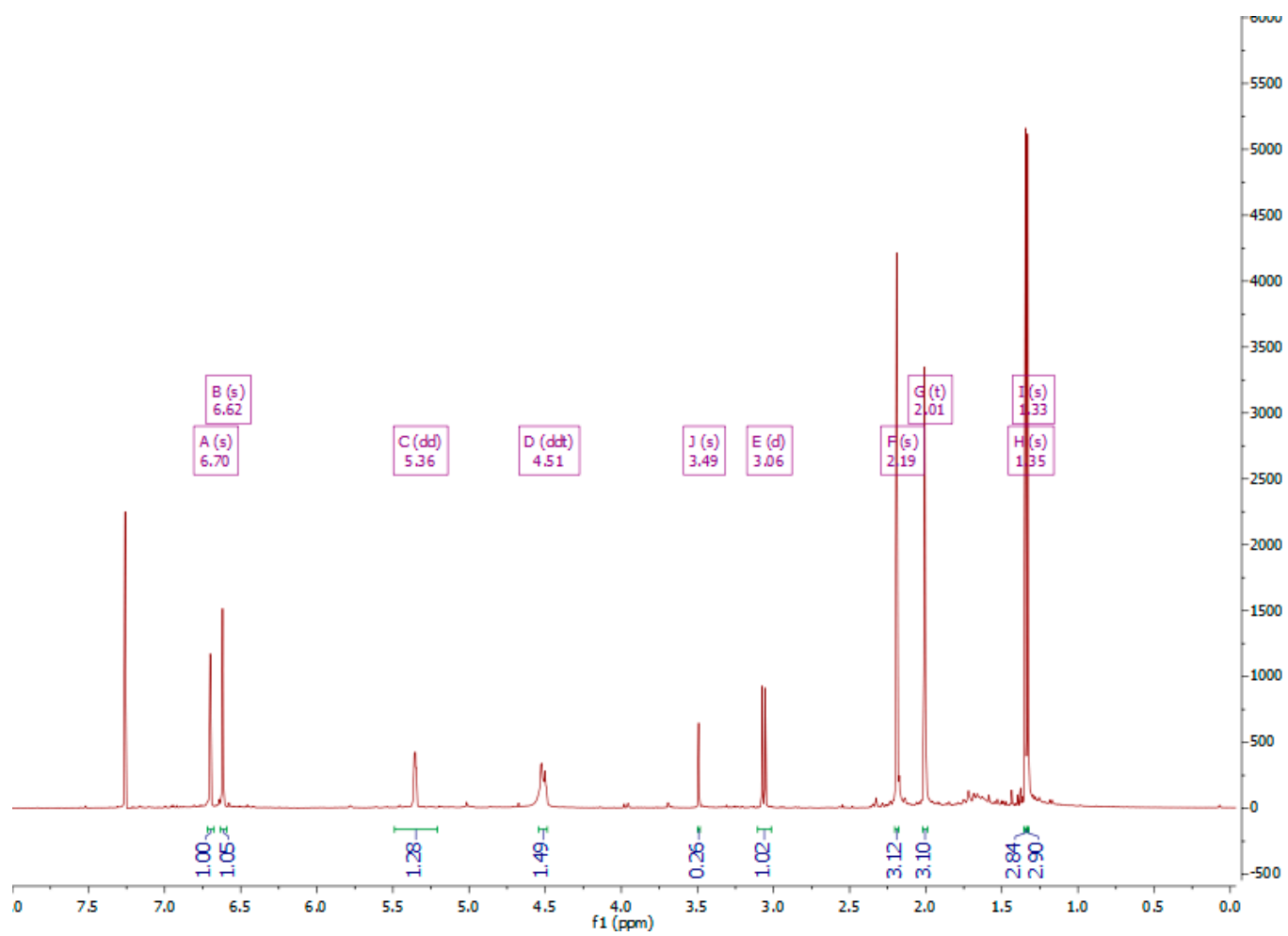


Figure S36 – ¹H-NMR spectrum for **Compound 7** (400 MHz, CDCl₃).

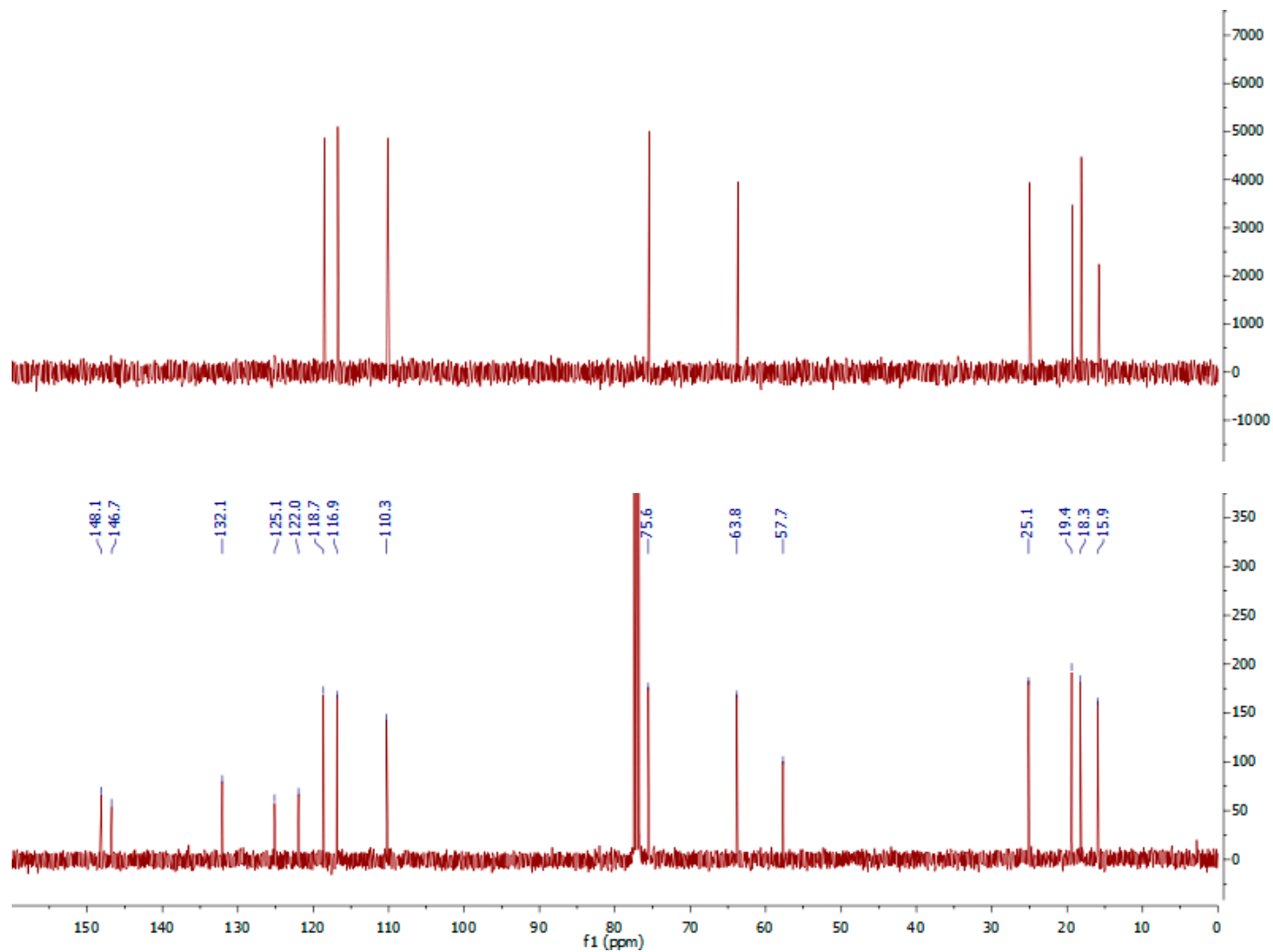


Figure S37 – ^{13}C -NMR spectrum for **Compound 7** (400 MHz, CDCl_3).

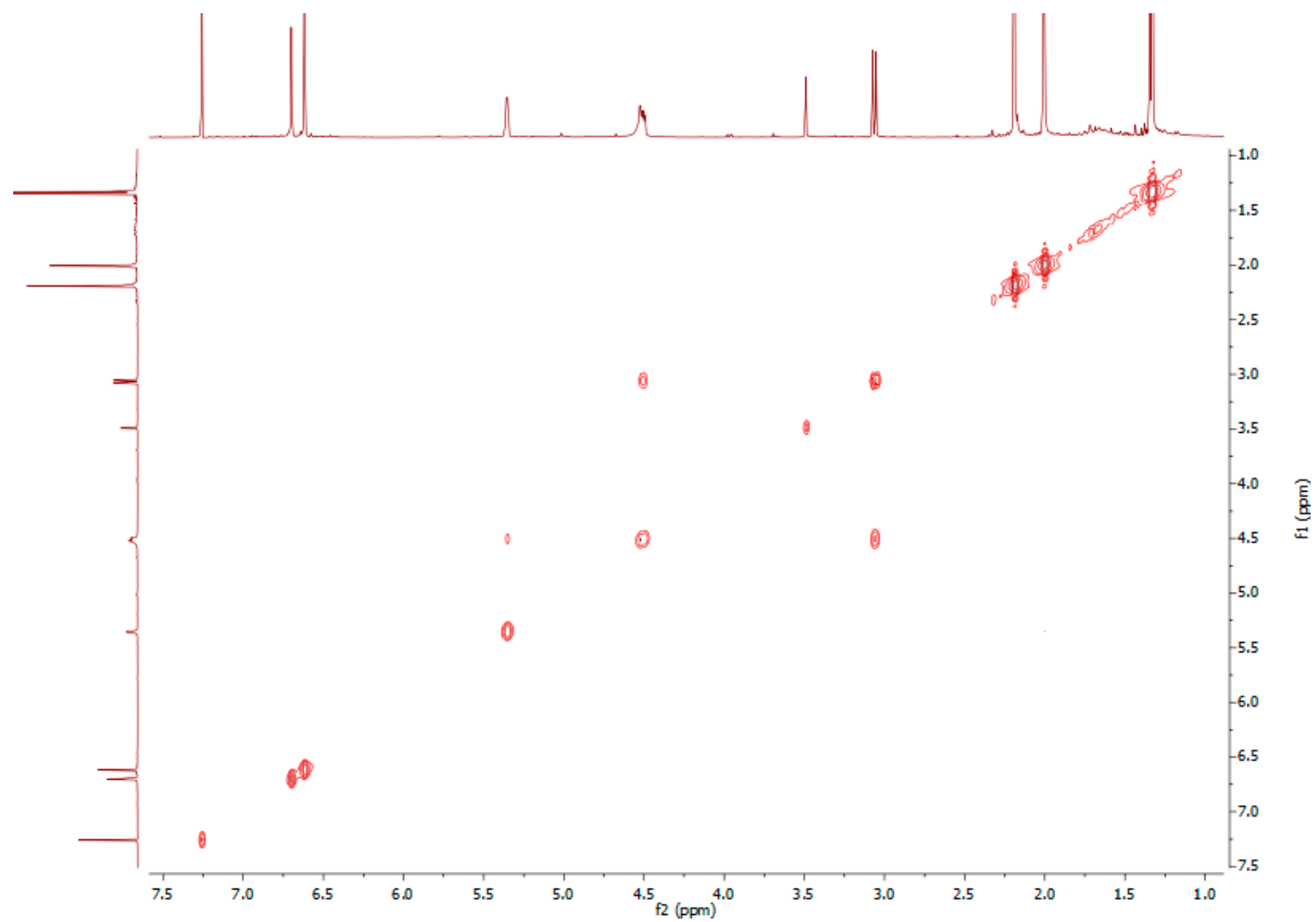


Figure S38 - g-COSY spectrum for **Compound 7** (400 MHz, CDCl₃).

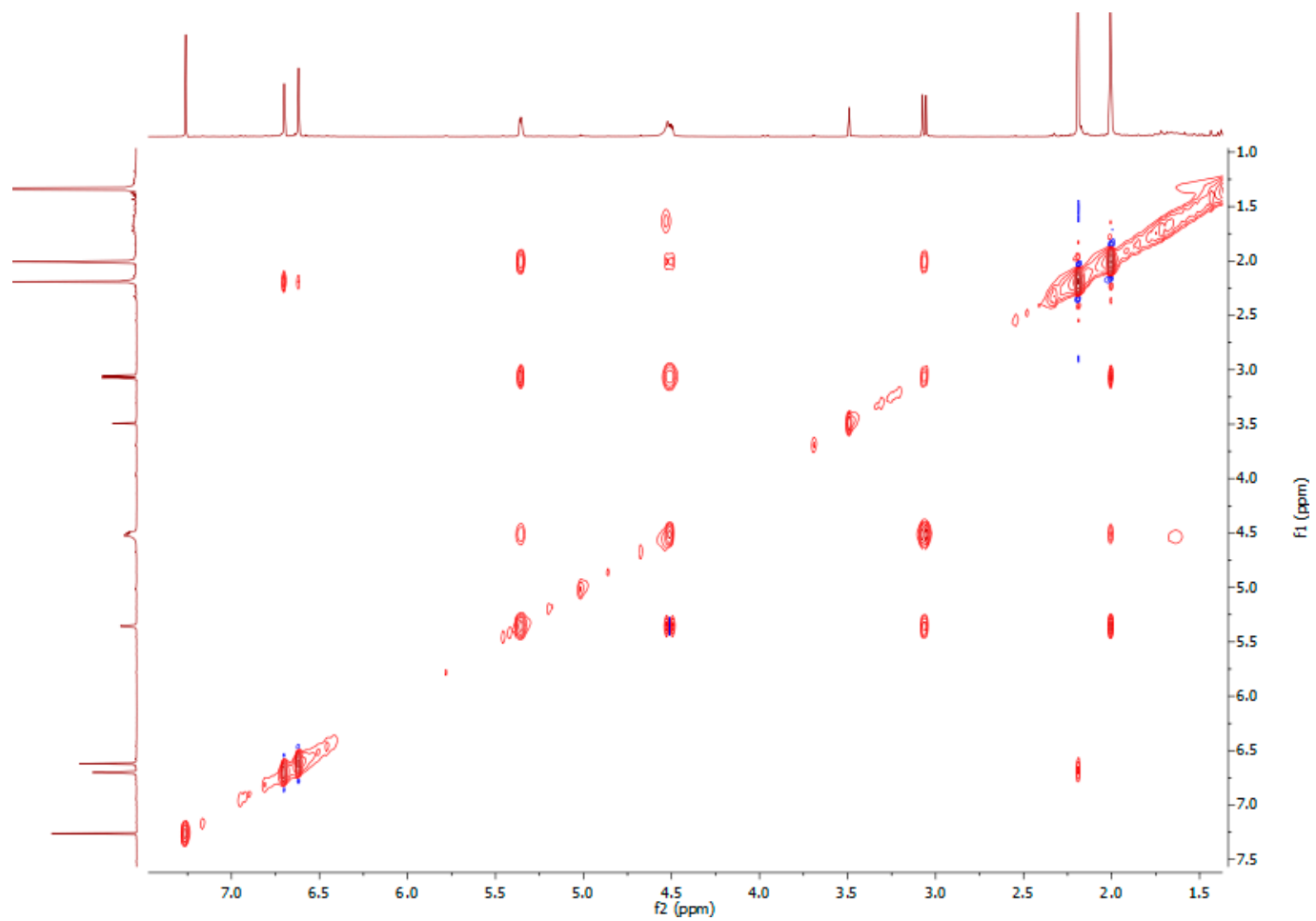


Figure S39 - TOCSY spectrum for **Compound 7** (400 MHz, CDCl₃).

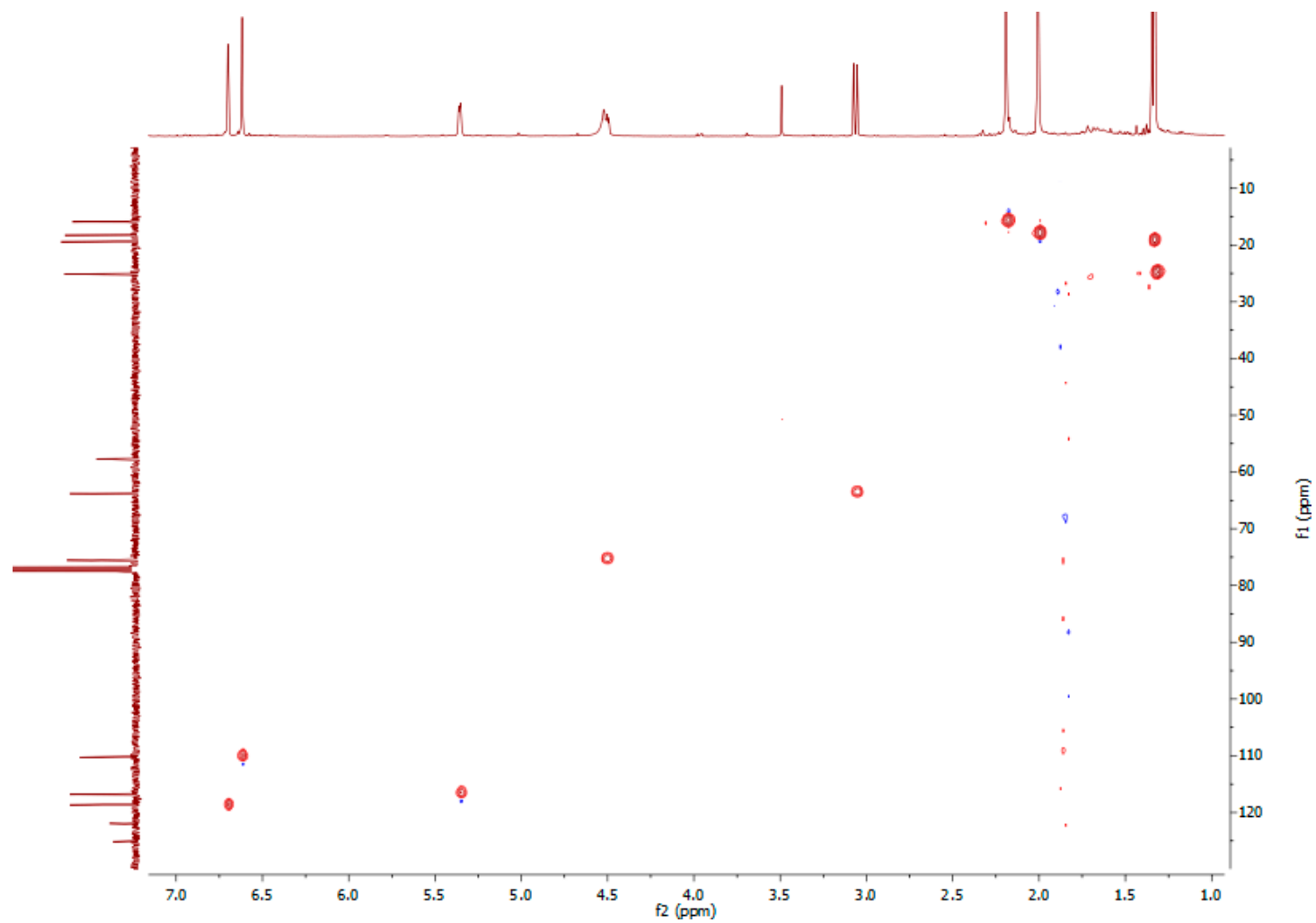


Figure S40 - g-HMQC spectrum for **Compound 7** (400 MHz, CDCl_3).

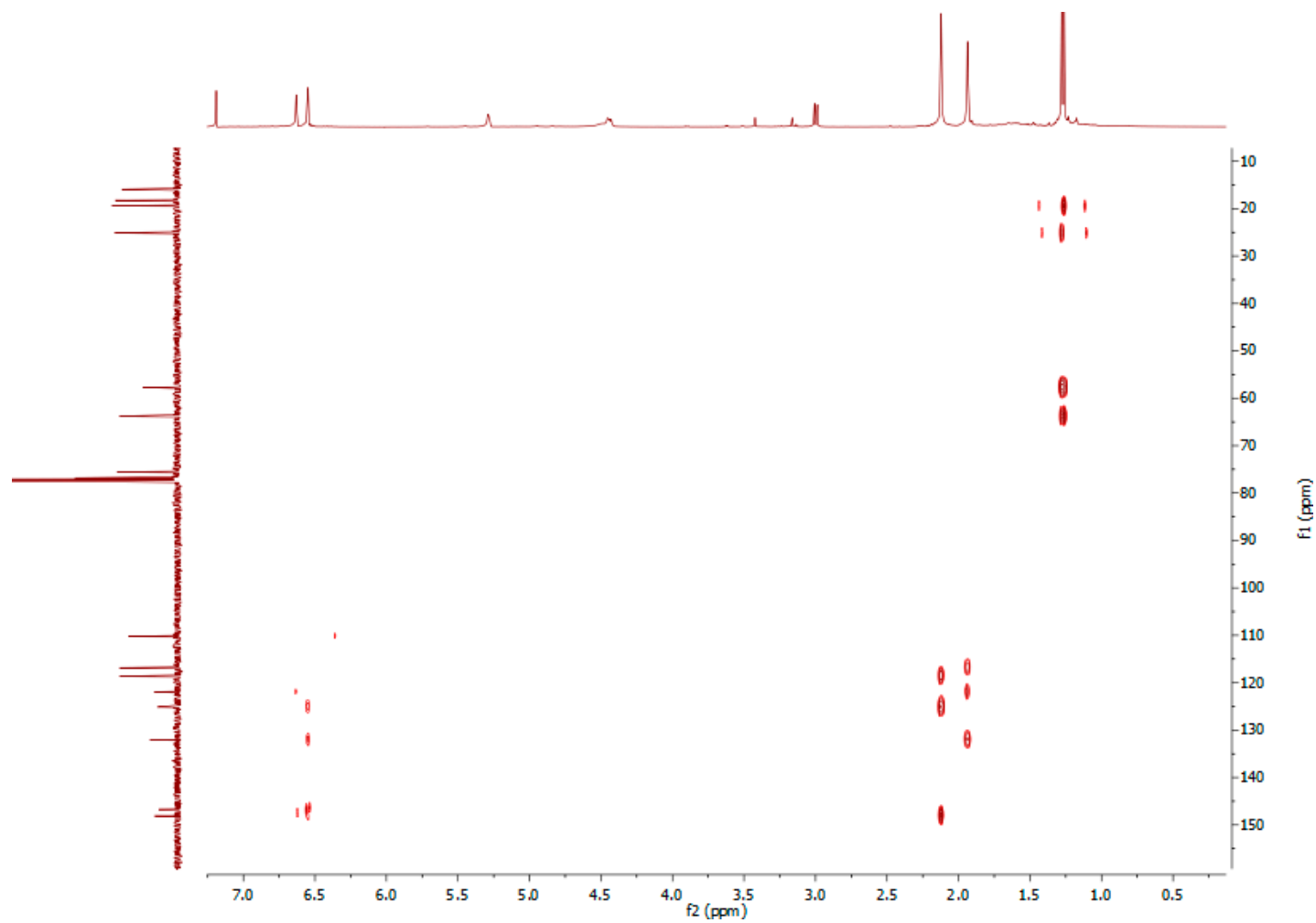


Figure S41 - g-HMBC spectrum for **Compound 7** (400 MHz, CDCl₃).

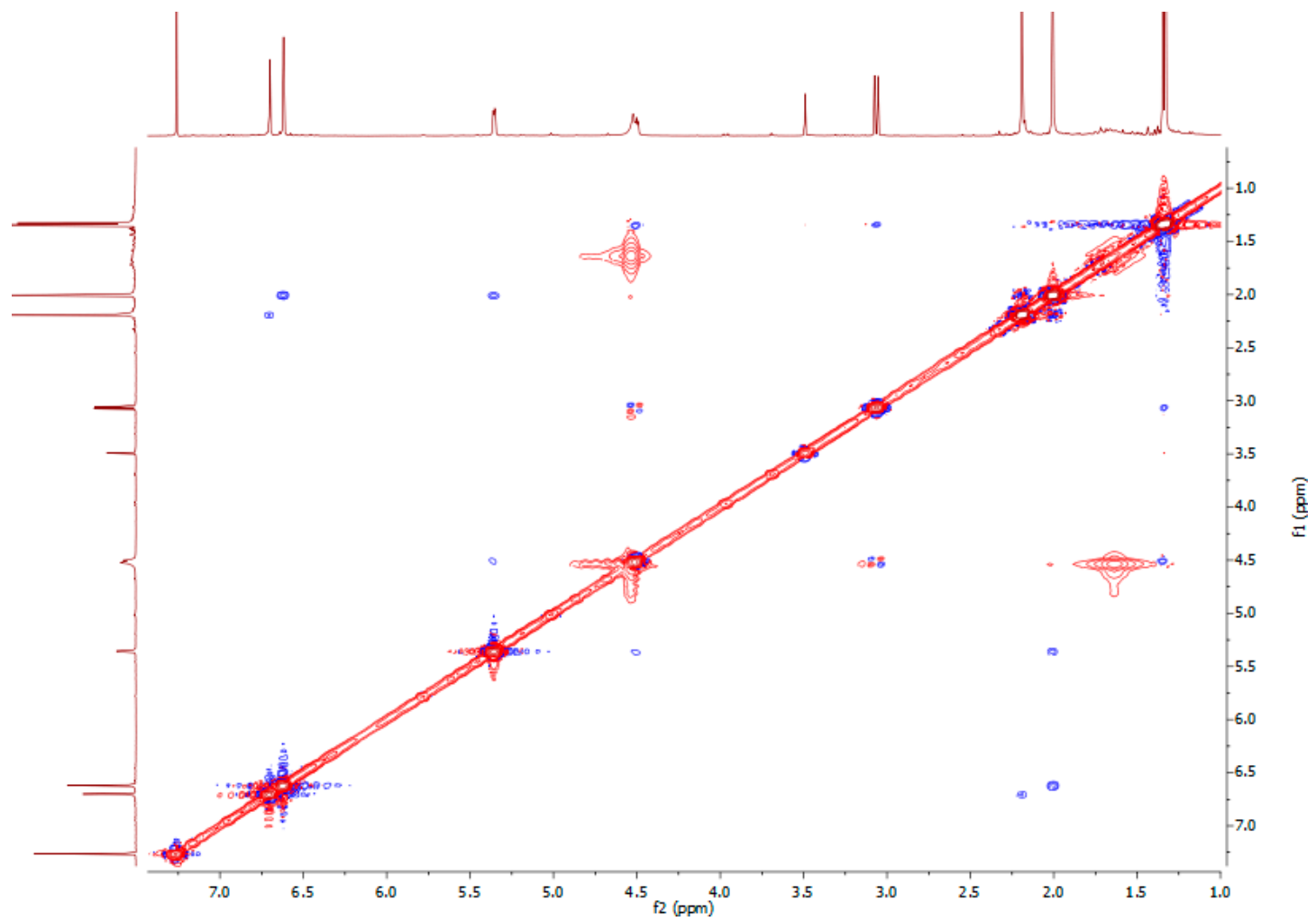


Figure S42 - NOESY spectrum for **Compound 7** (400 MHz, CDCl_3).

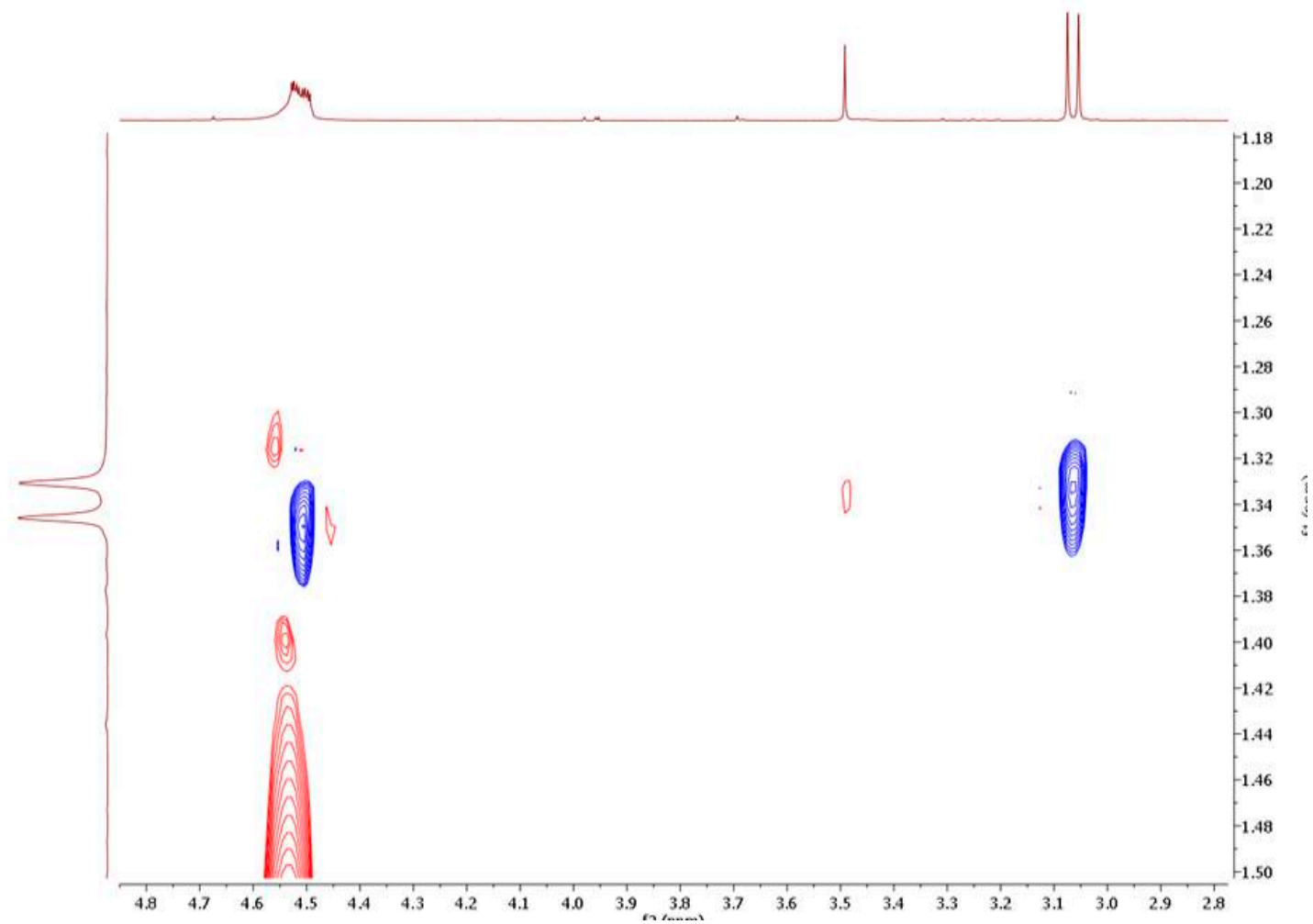


Figure S43 – Close up of NOESY spectrum for **Compound 7** (400 MHz, CDCl₃).

20170505A_004 1477 (6.001)

1: TOF MS ES-
1.82e3

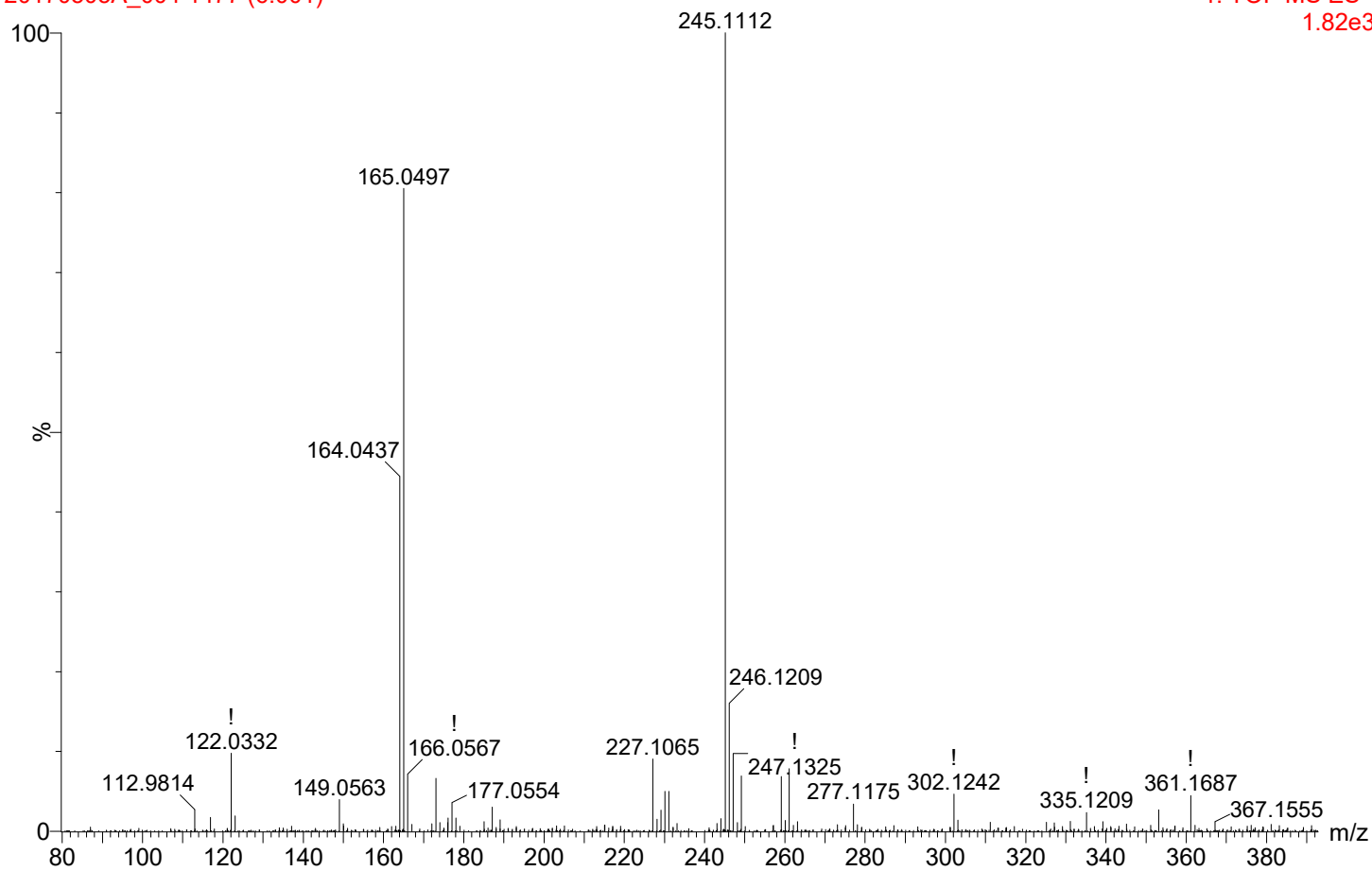


Figure S44 - HRESIMS spectrum for **Compound 7**.

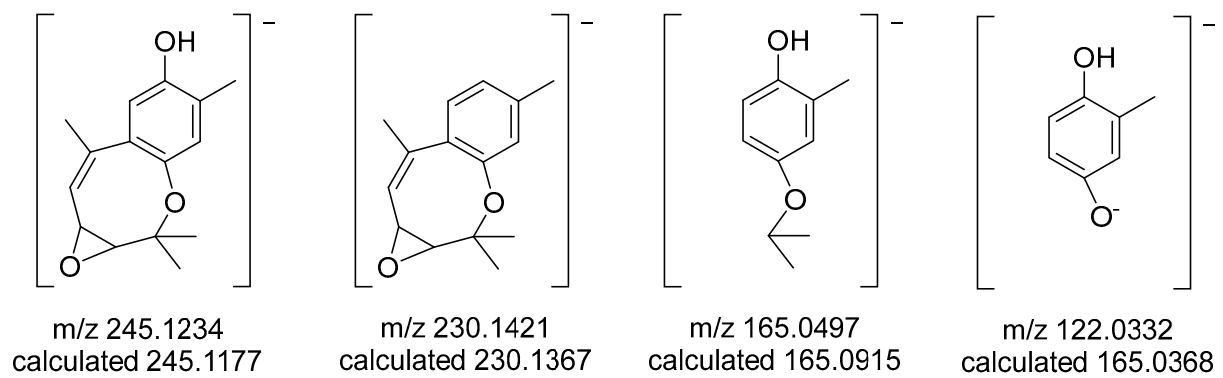


Figure S45 - Compound 7 MS fragmentation ions induced by ESI (negative ionization mode).