## Supplementary data

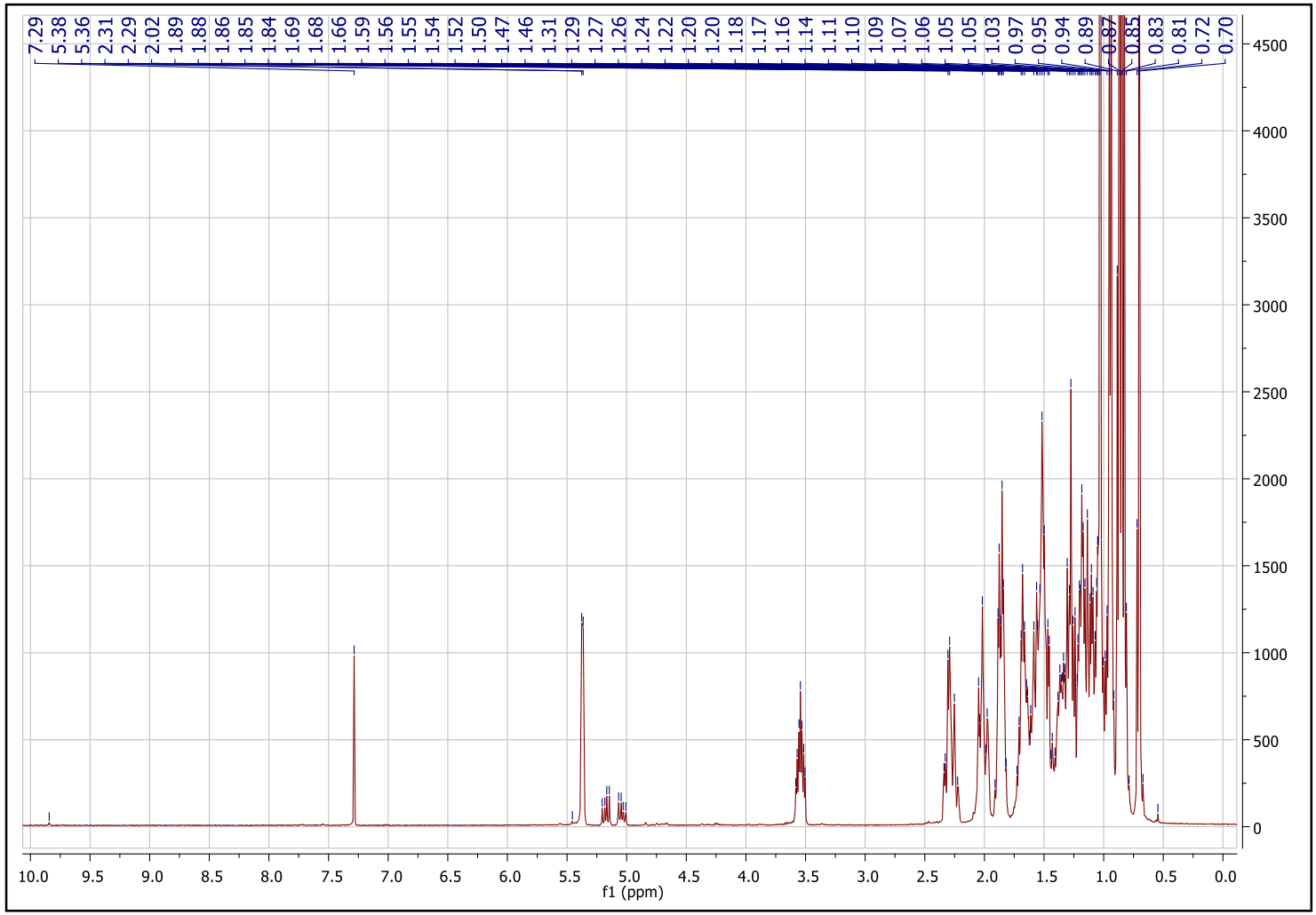


**Figure S1.** $^{1}$H-NMR spectrum of stigmasterol and β-sitosterol (1+2) ($CDCl_3$, 400 MHz).

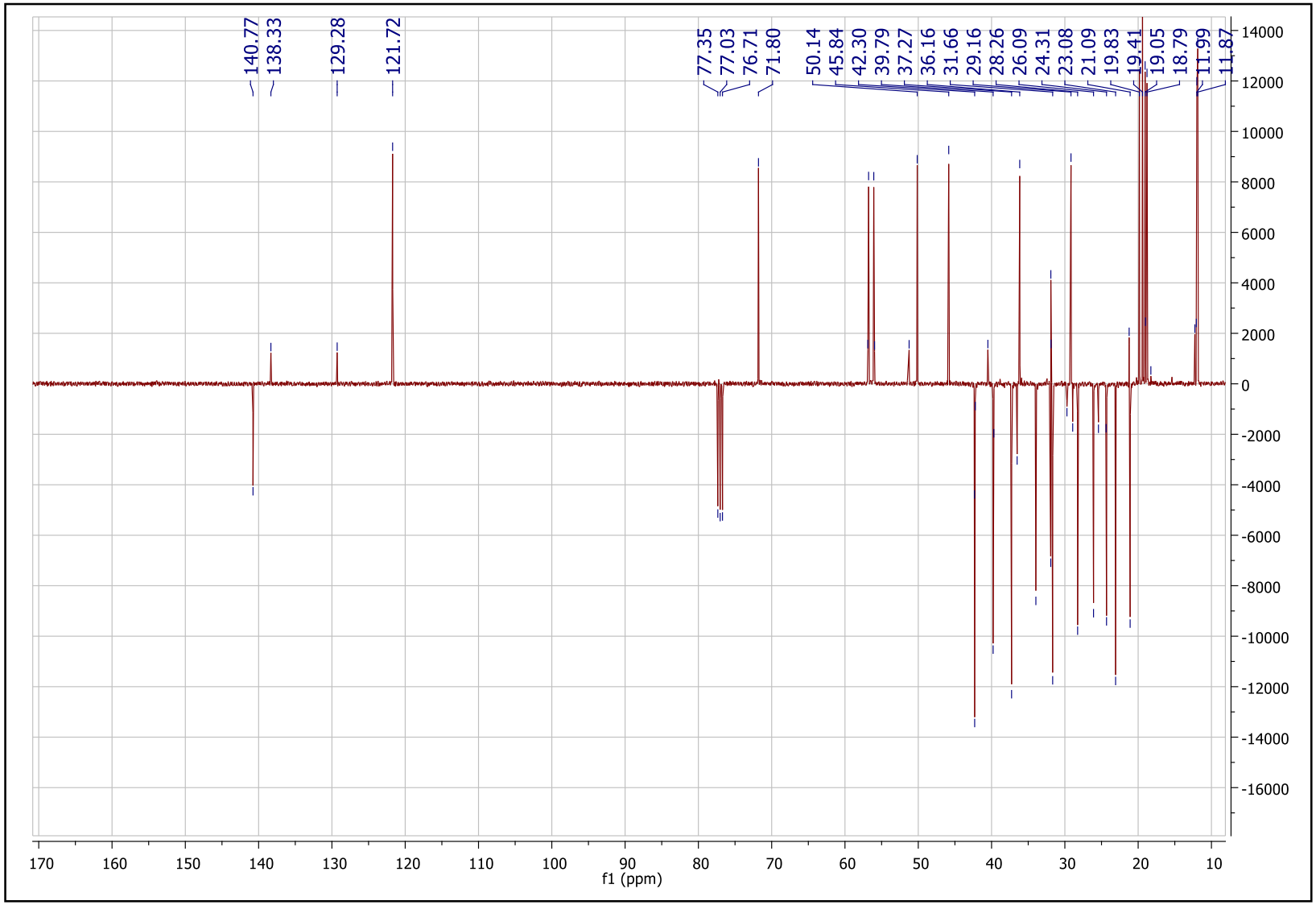


**Figure S2.** DEPT-Q NMR spectrum of stigmasterol and β-sitosterol (1+2) ($CDCl_3$, 100MHZ).

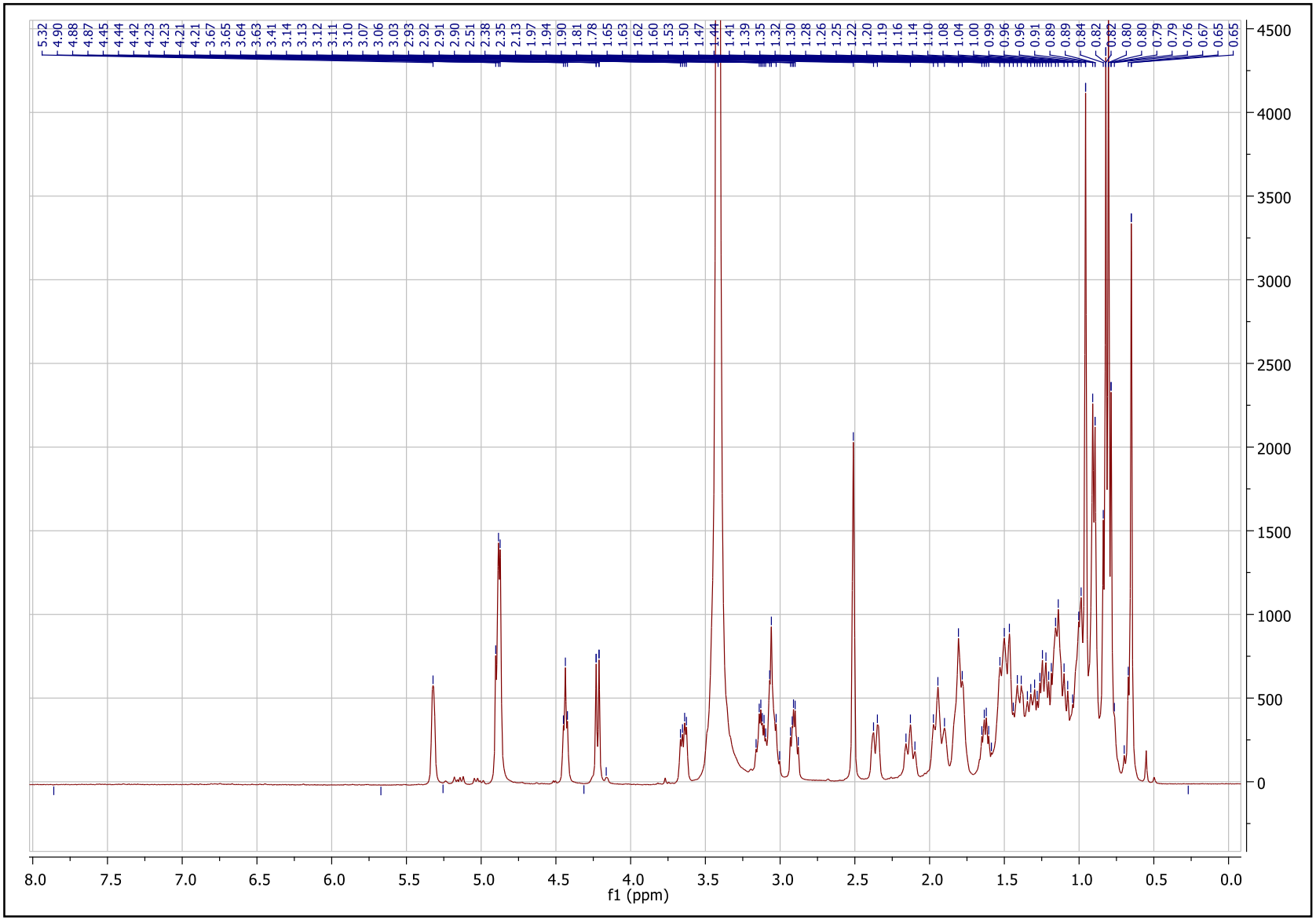


**Figure S3.** $^{1}$H-NMR spectrum of β-sitosterol glucoside (3) (DMSO, 400 MHz).

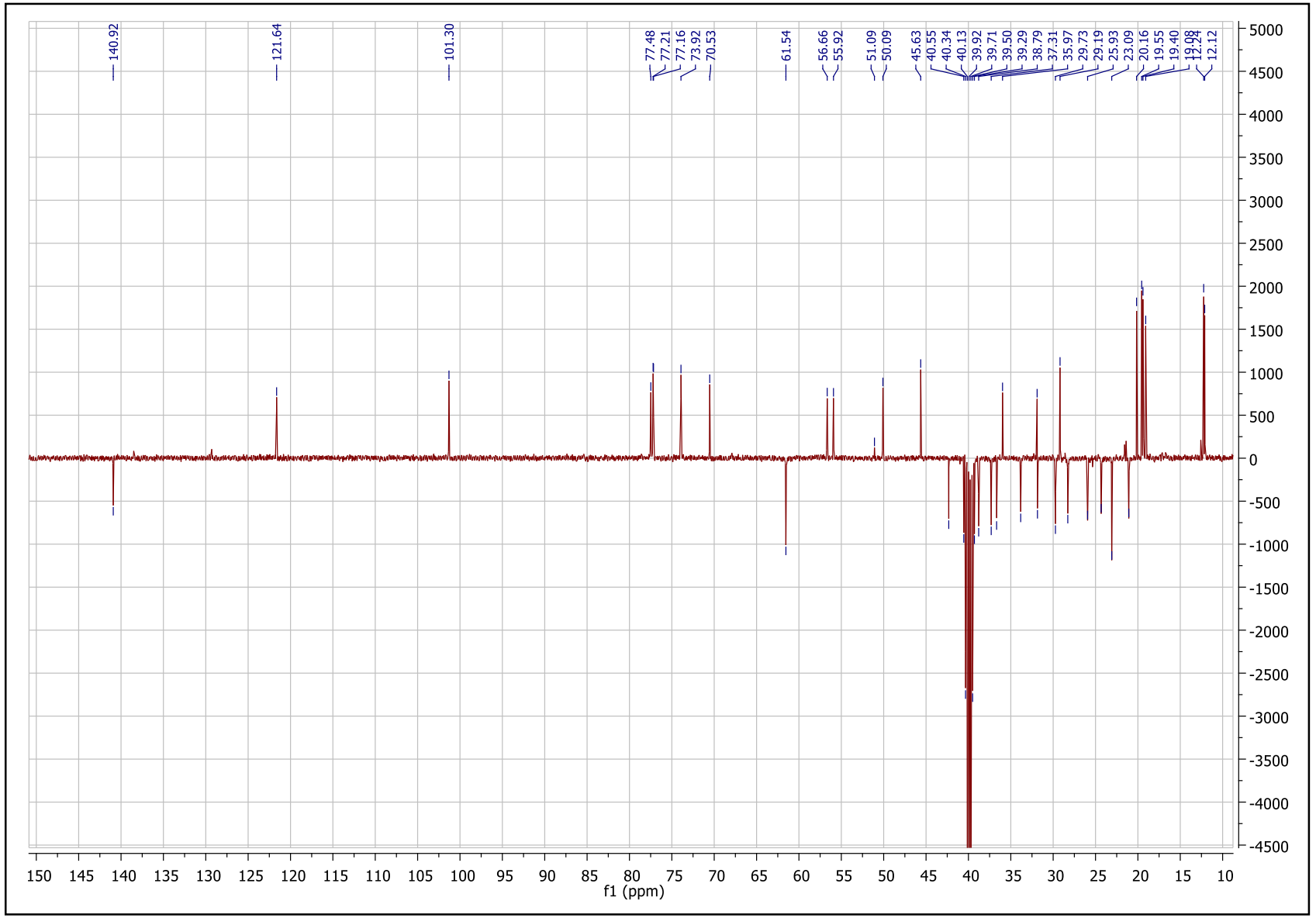


**Figure S4.** DEPT-Q NMR spectrum of β-sitosterol glucoside (3) (DMSO, 100 MHz).

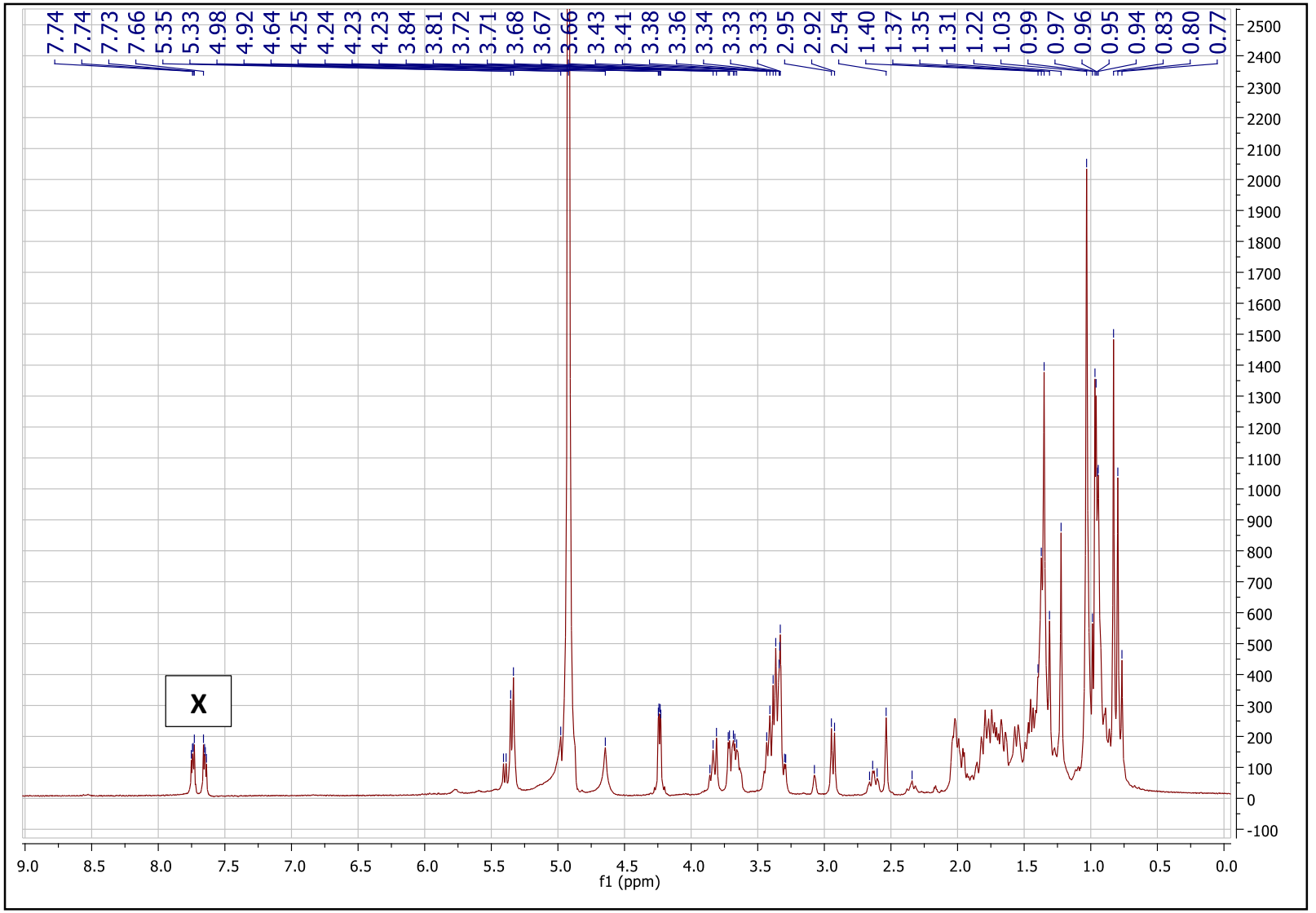


**Figure S5.** $^{1}$H-NMR spectrum of rosamultin (4) ($CD_3OD$, 400 MHz) +traces of phthalates.

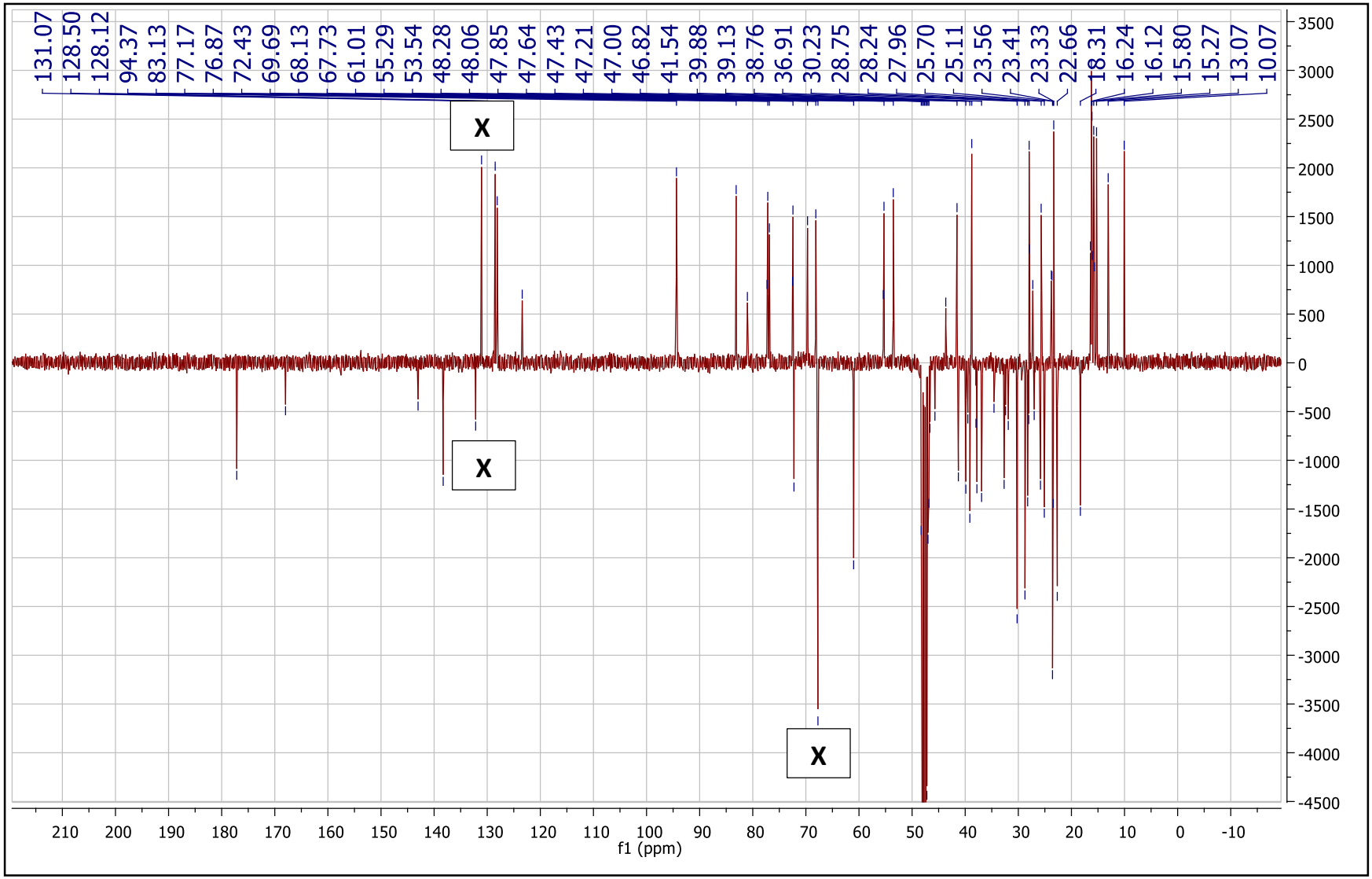


**Figure S6.** DEPT-Q NMR spectrum of rosamultin (4) ($CD_3OD$, 100 MHz) +traces of phthalates.

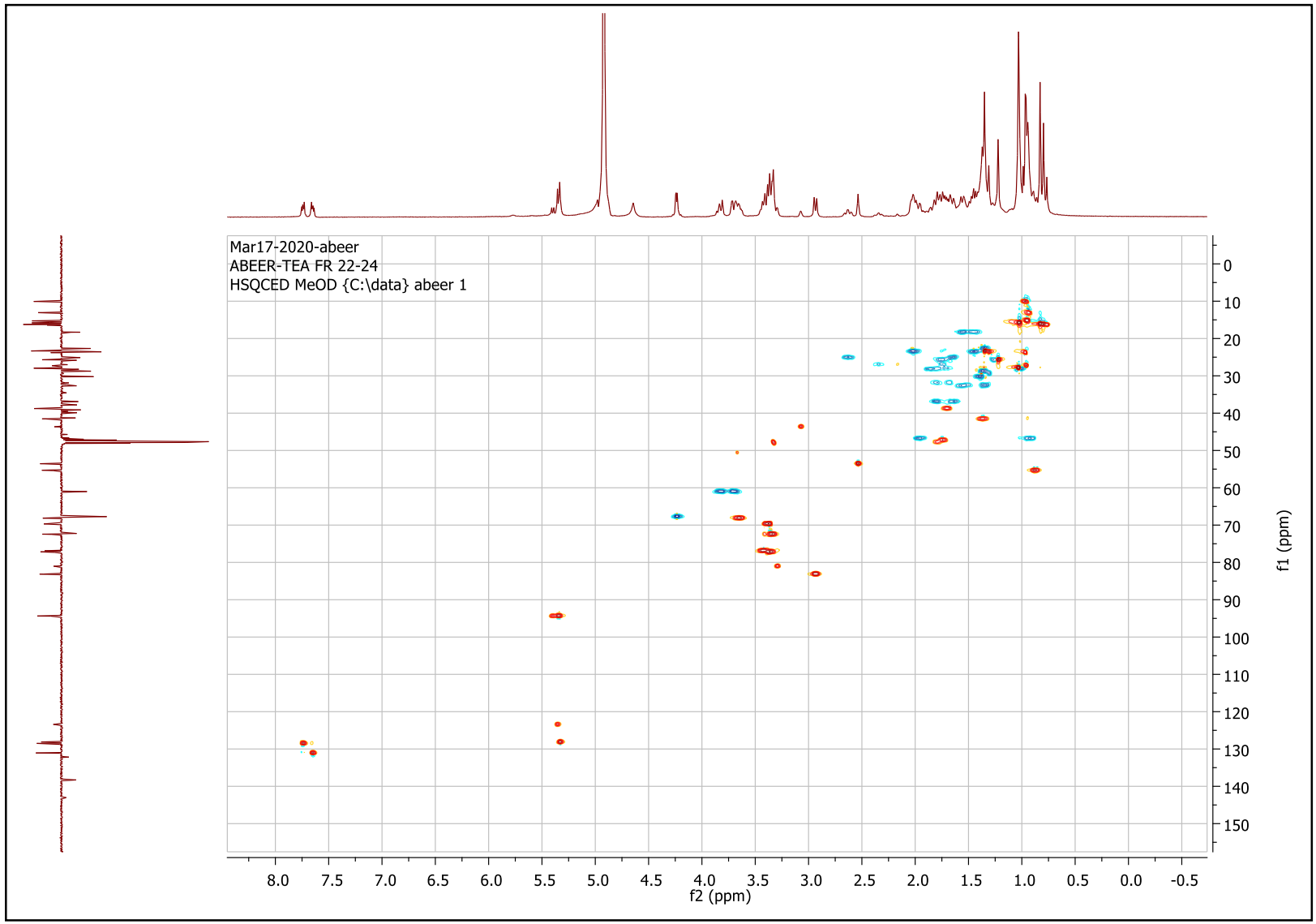


**Figure S7.** $^{1}H \rightarrow ^{13}C$ HSQC NMR spectrum of rosamultin (4) ($CD_3OD$, 400 MHz).

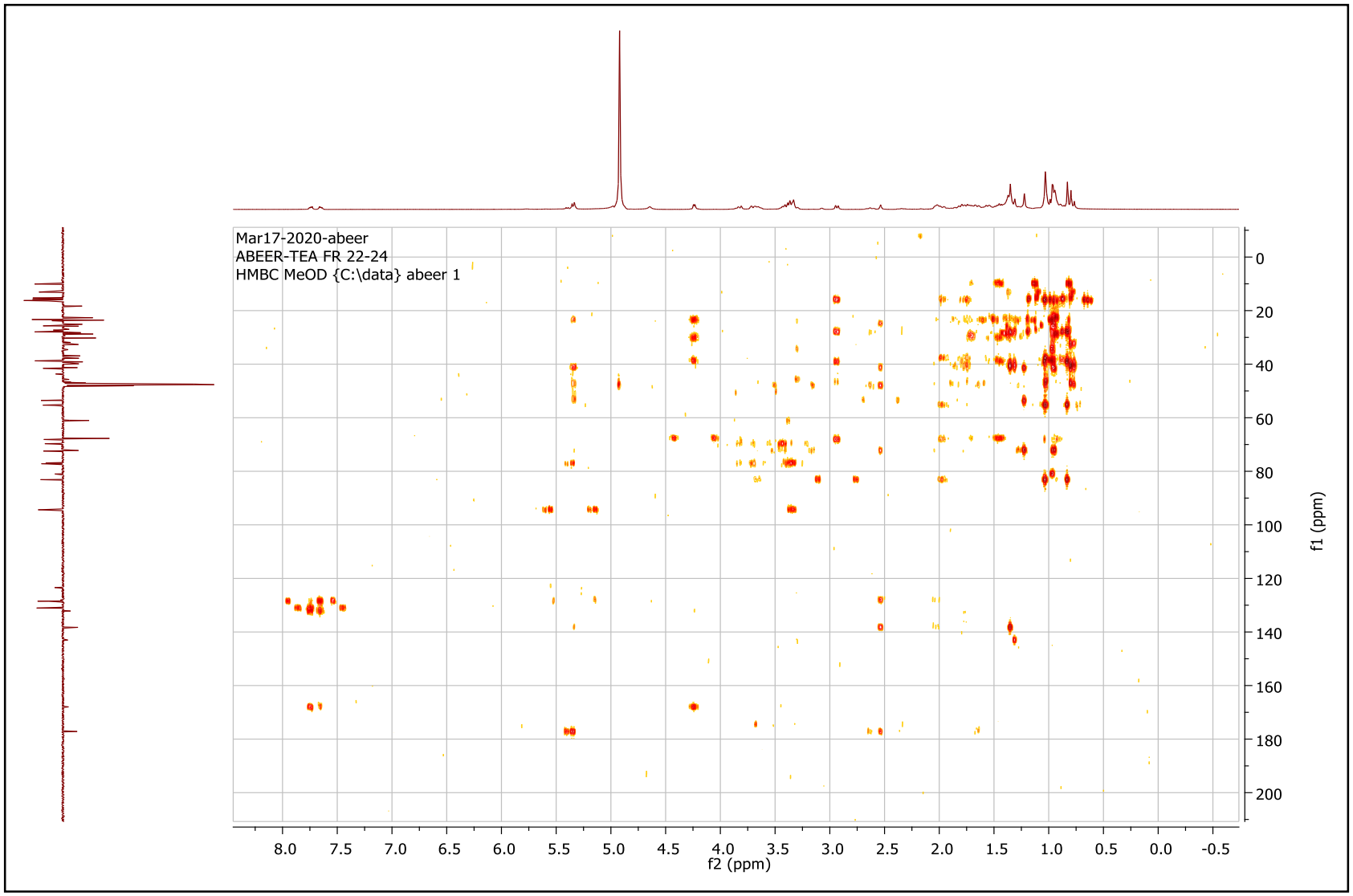


**Figure S8.** $^{1}H \rightarrow ^{13}C$ HMBC NMR spectrum of rosamultin (4) ($CD_3OD$, 400 MHz).

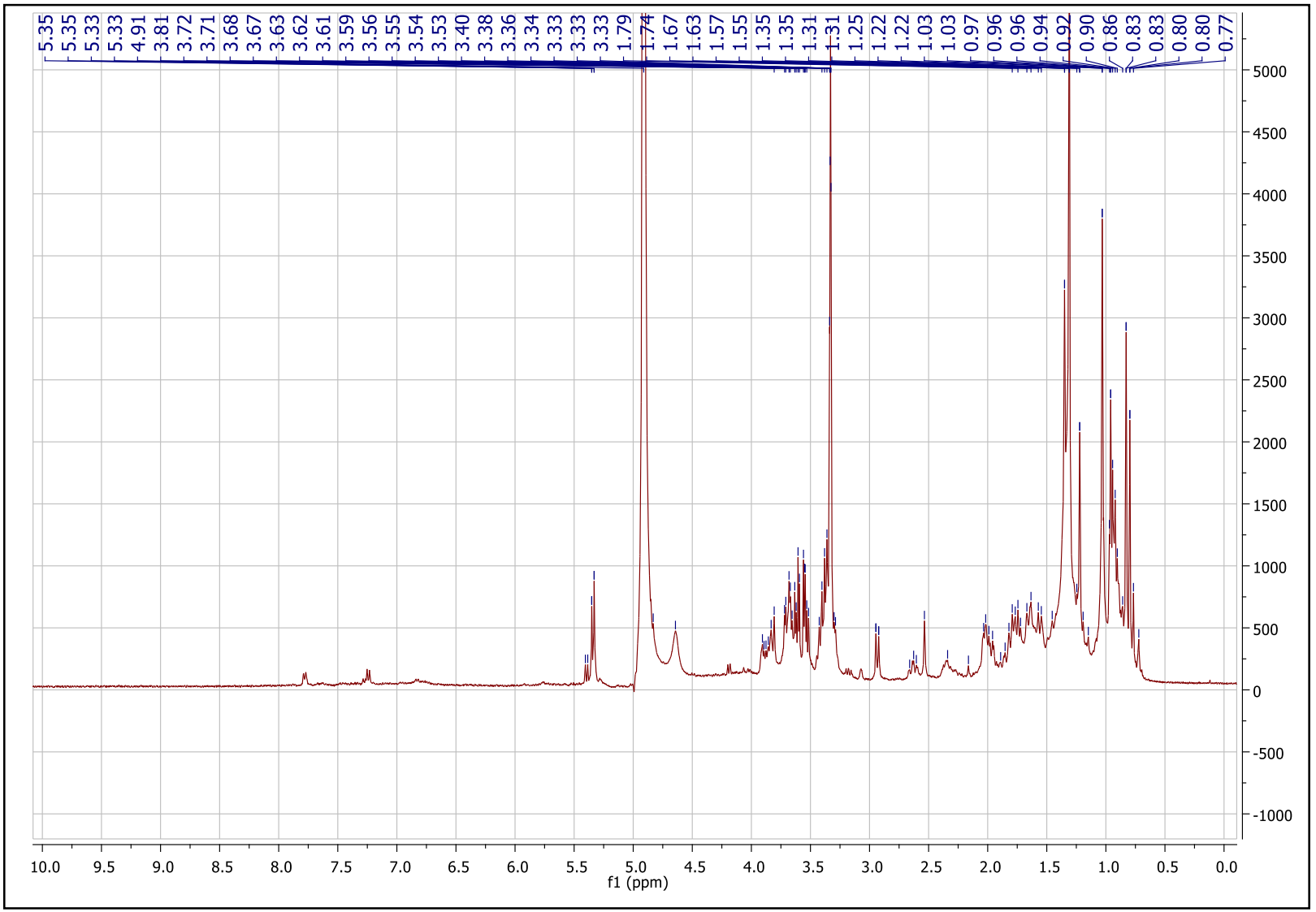


**Figure S9.** $^{1}$H-NMR spectrum of niga-ichigoside F1 (5) ($CD_3OD$, 400 MHz).

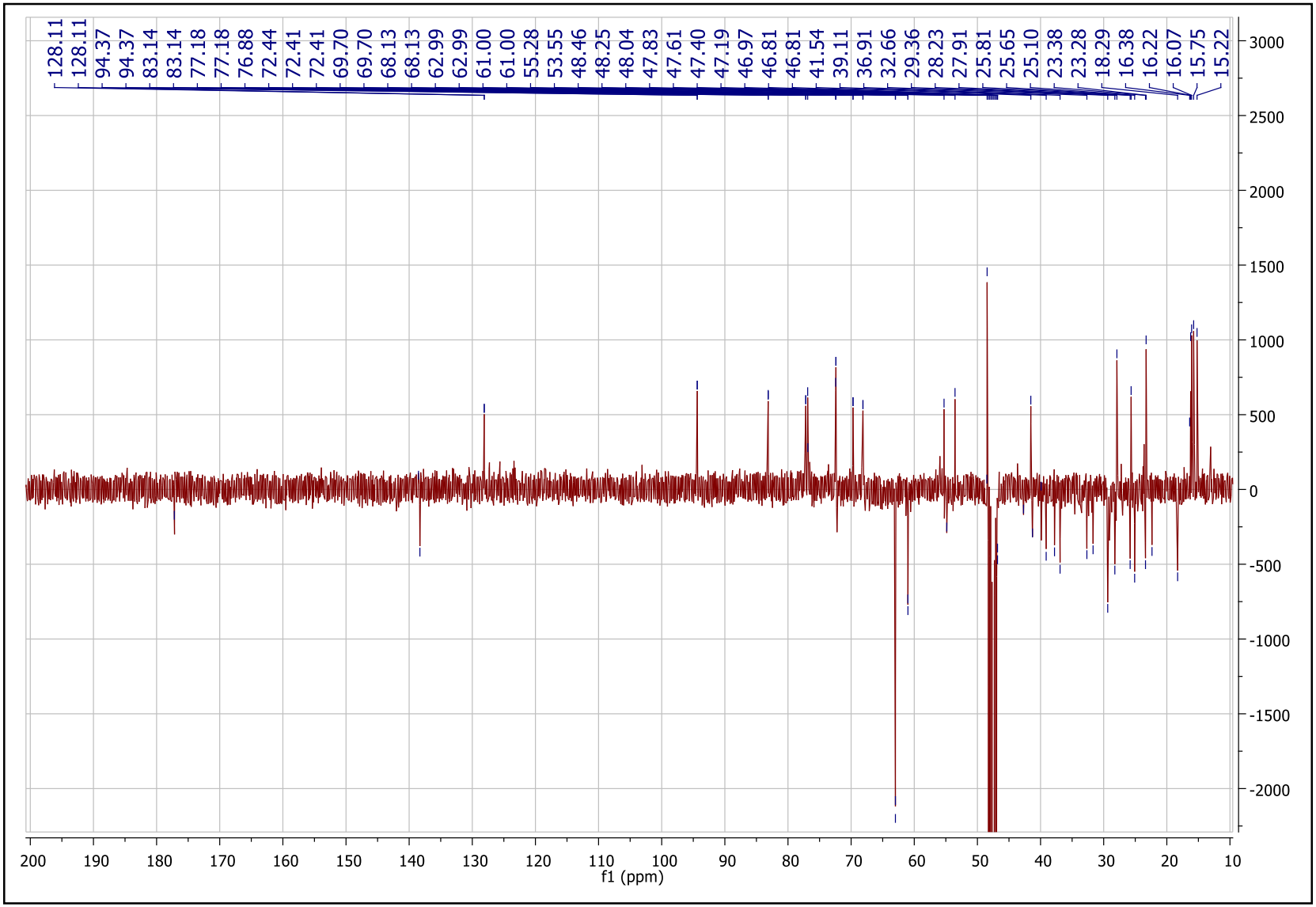


**Figure S10.** DEPT-Q NMR spectrum of niga-ichigoside F1(5) (CD3OD, 100 MHz).

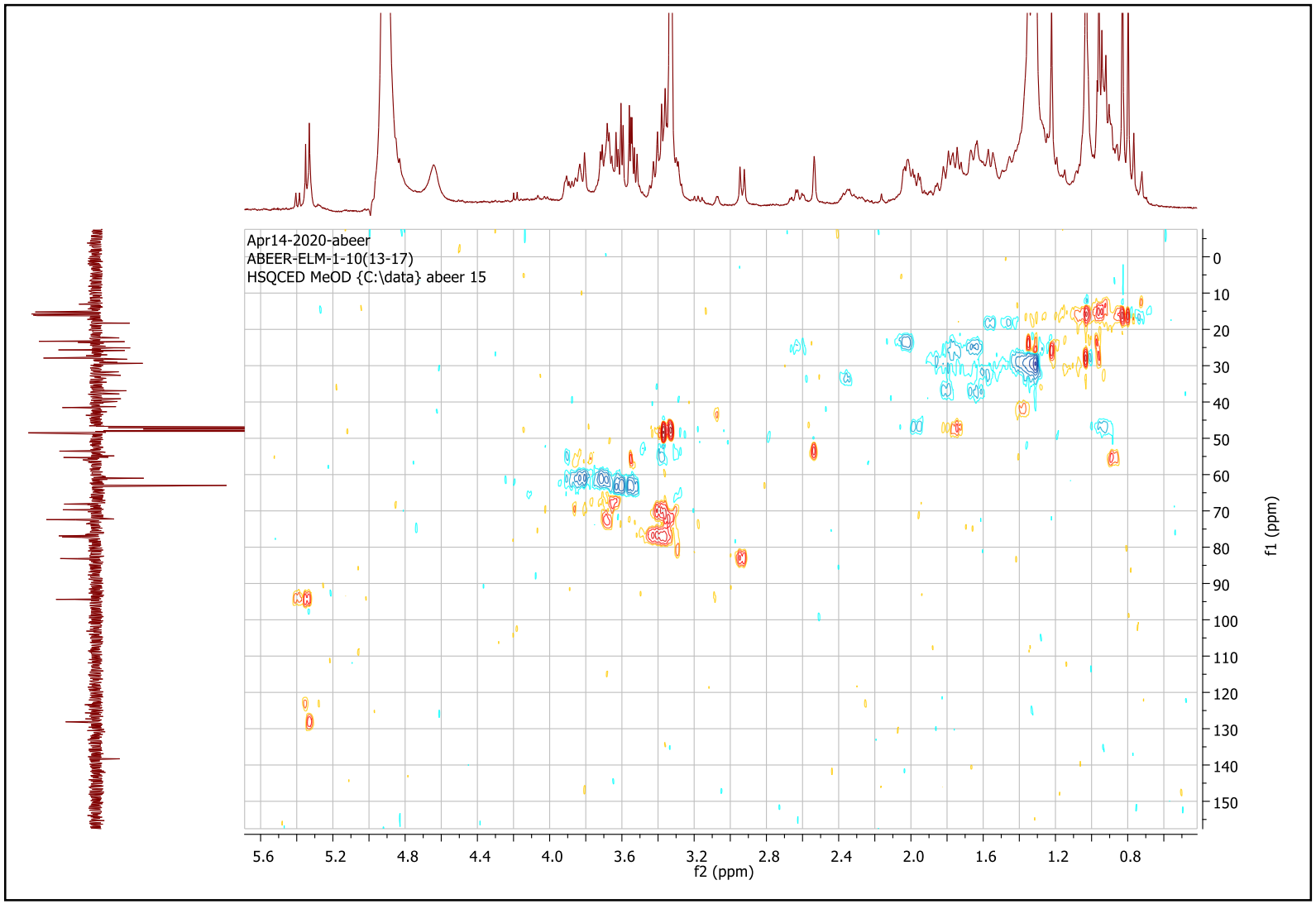


**Figure S11.** $^{1}H \rightarrow ^{13}C$ HSQC NMR spectrum of niga-ichigosise (5) ($CD_3OD$, 400 MHz).

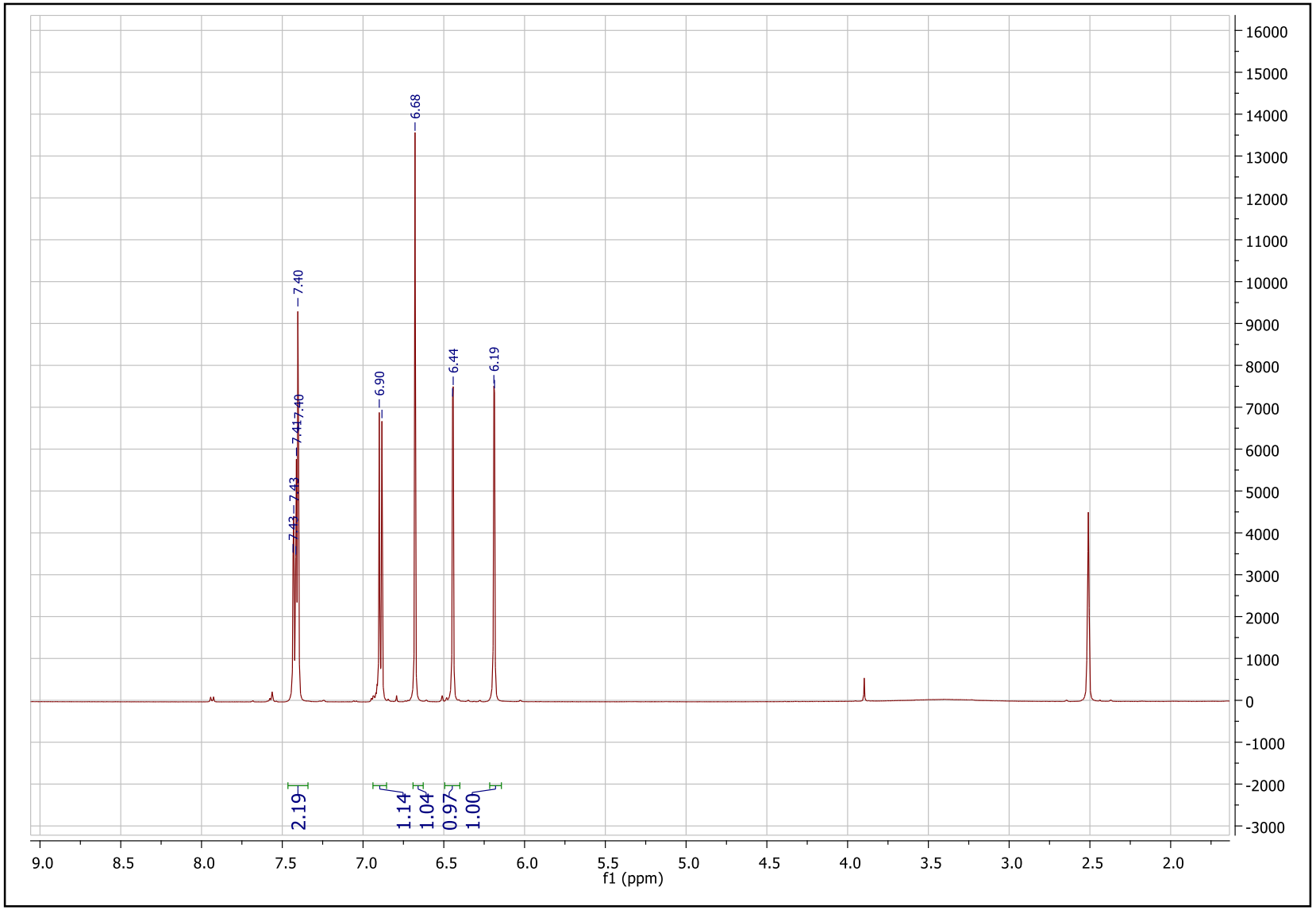


**Figure S12.** [1]H-NMR spectrum of luteolin (6) (DMSO, 500 MHz).

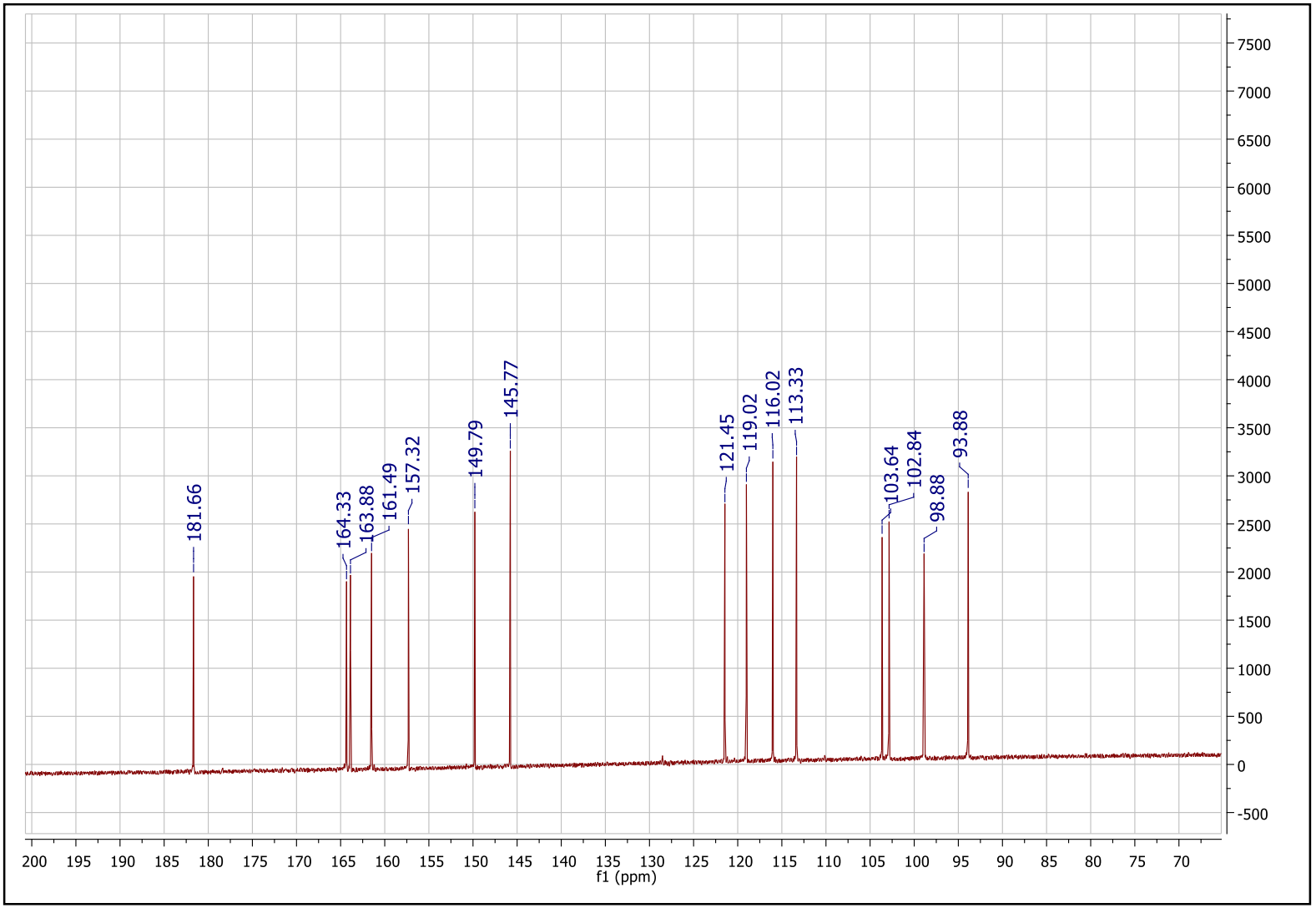


**Figure S13.** $^{13}$C-NMR spectrum of luteolin (6) (DMSO, 125 MHz).

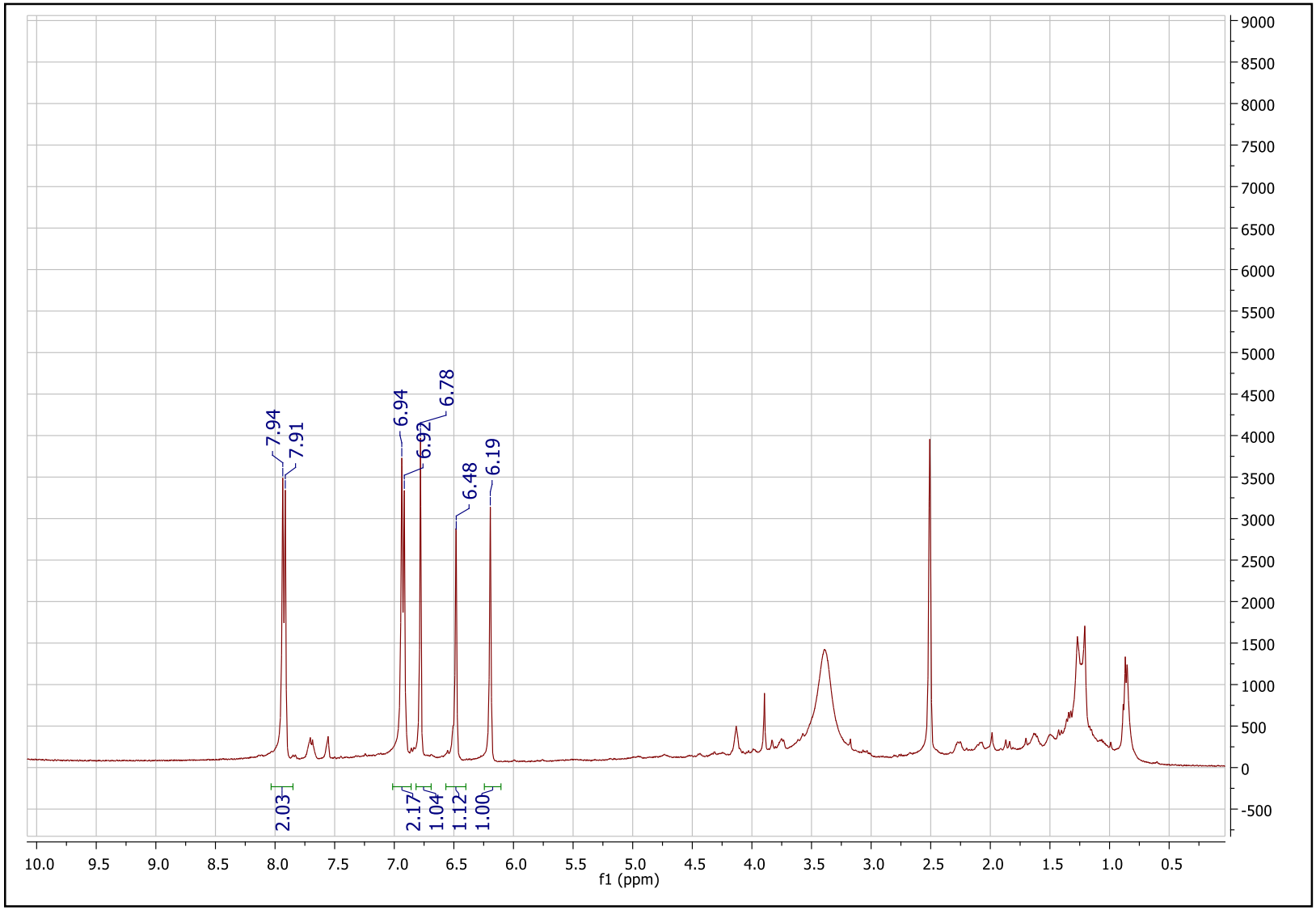


**Figure S14.** $^{1}$H-NMR spectrum of apigenin (7) (DMSO, 400 MHz).

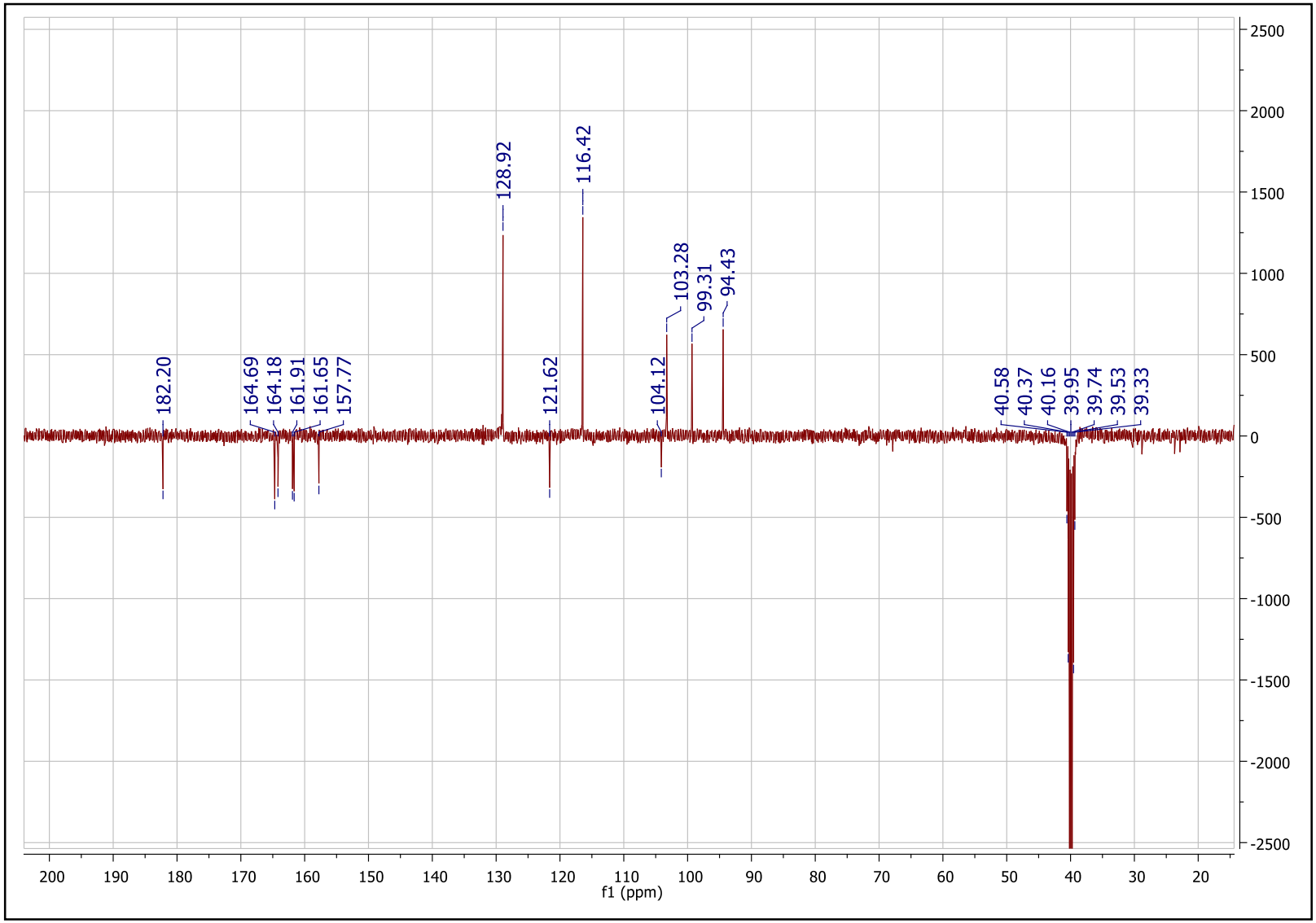


**Figure S15.** DEPT-Q NMR spectrum of apigenin (7) (DMSO, 100 MHz).

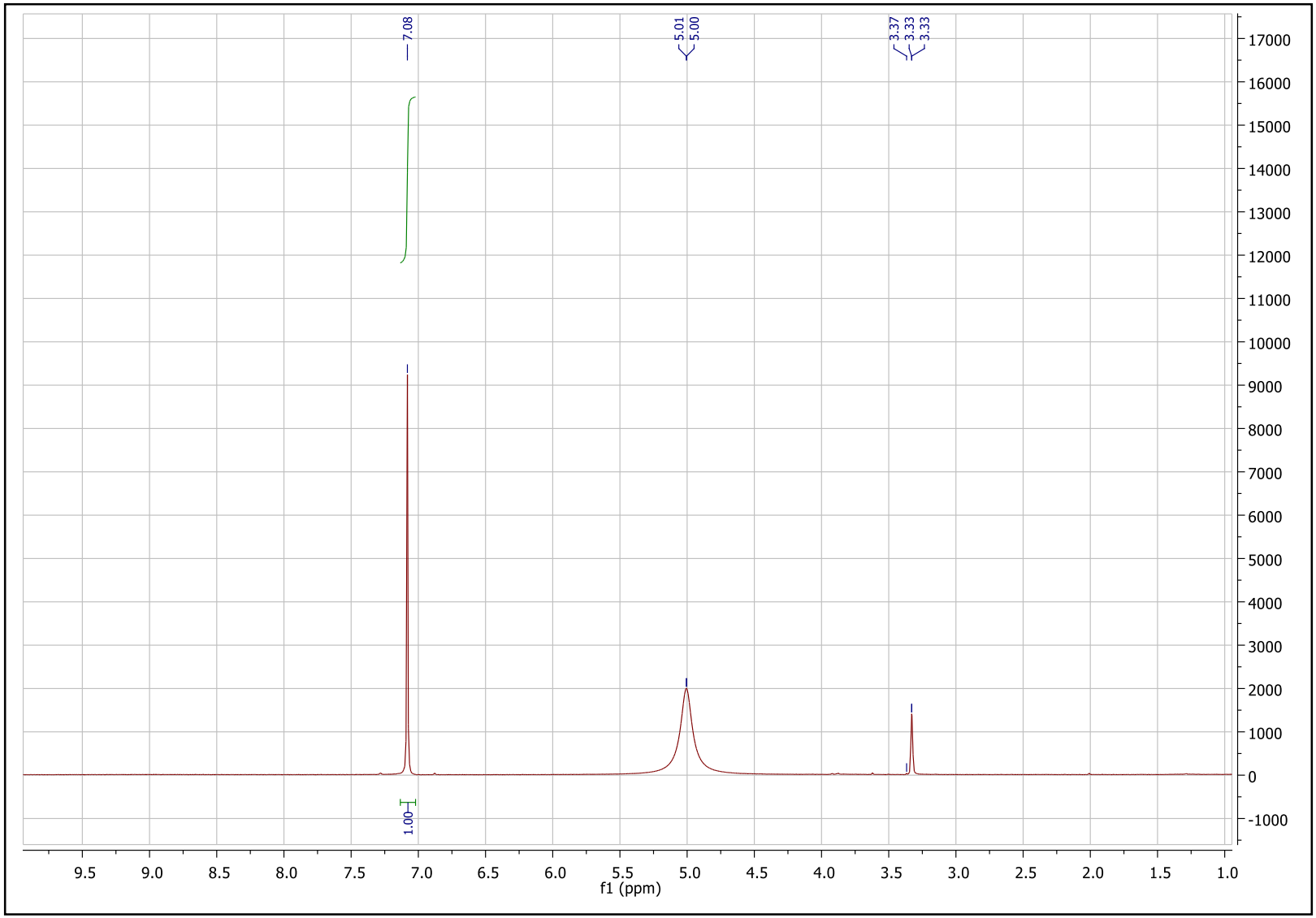


**Figure S16.** $^{1}$H-NMR spectrum of gallic acid (8) ($CD_3OD$, 400 MHz).

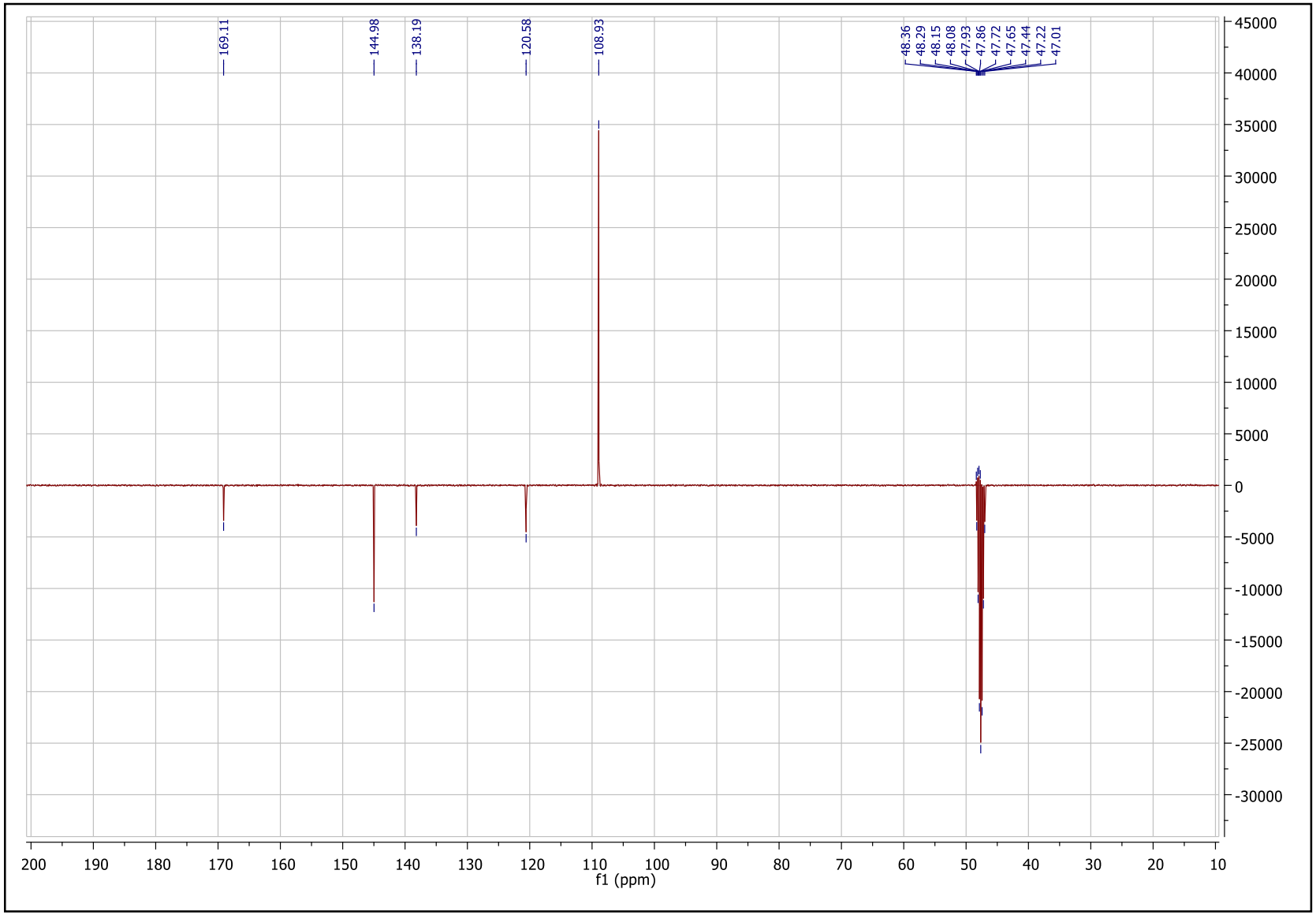


**Figure S17.** DEPT-Q NMR spectrum of gallic acid (8) ($CD_3OD$, 100 MHz).

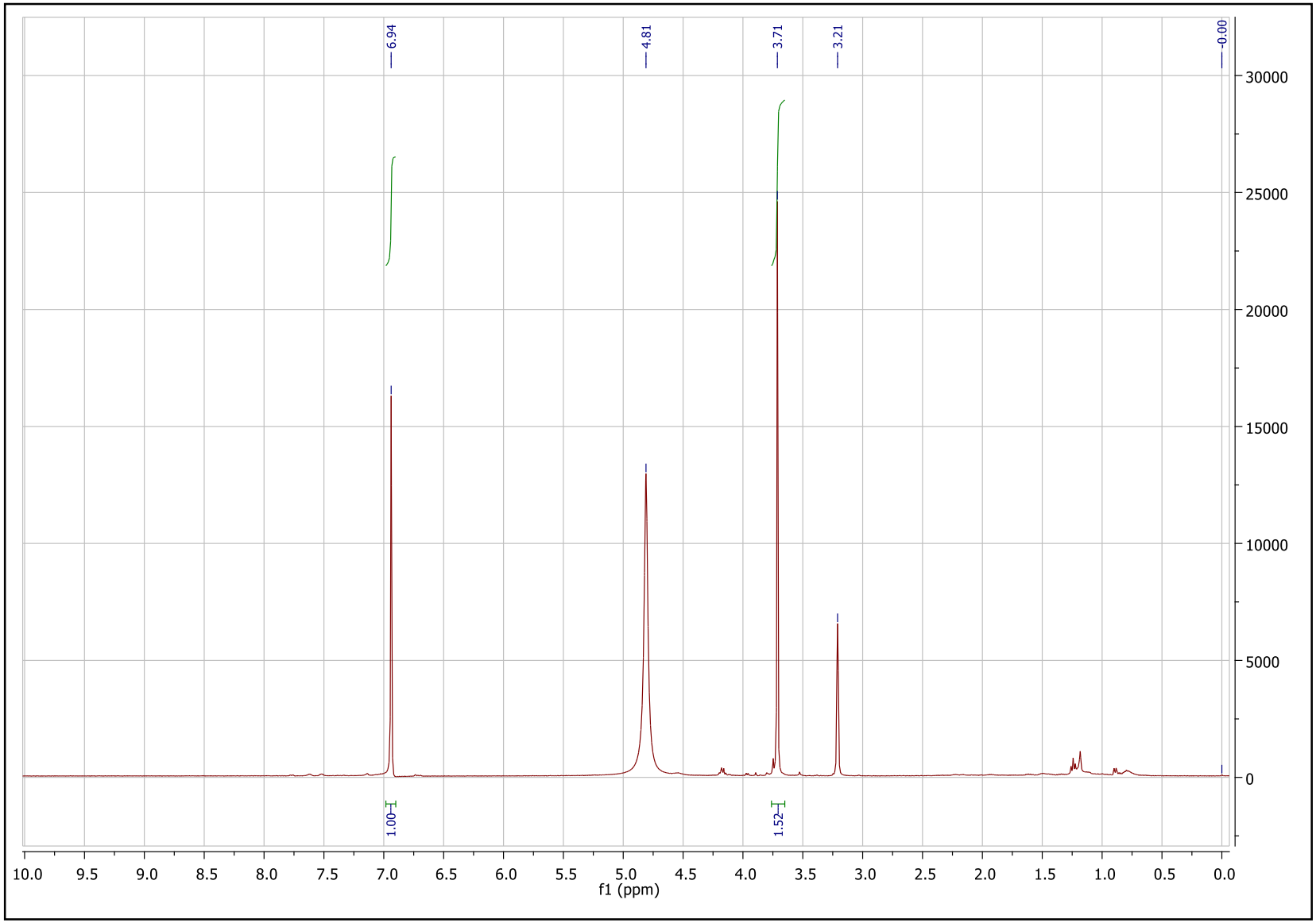


**Figure S18.** $^{1}$H-NMR spectrum of methyl gallate (9) ($CD_3OD$, 400 MHz).

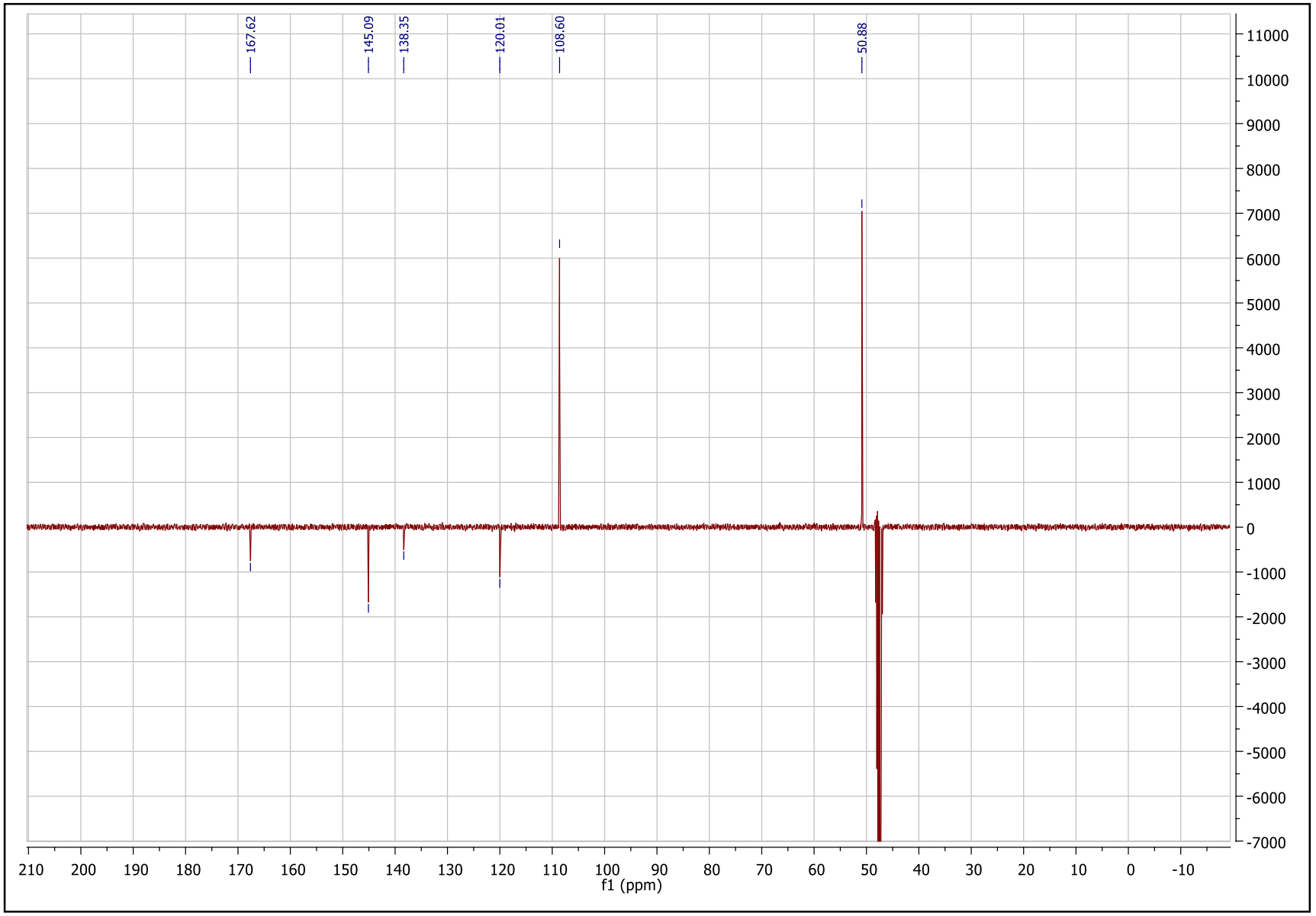


**Figure S19.** DEPT-Q NMR spectrum of methyl gallate (9) ($CD_3OD$, 100 MHz).