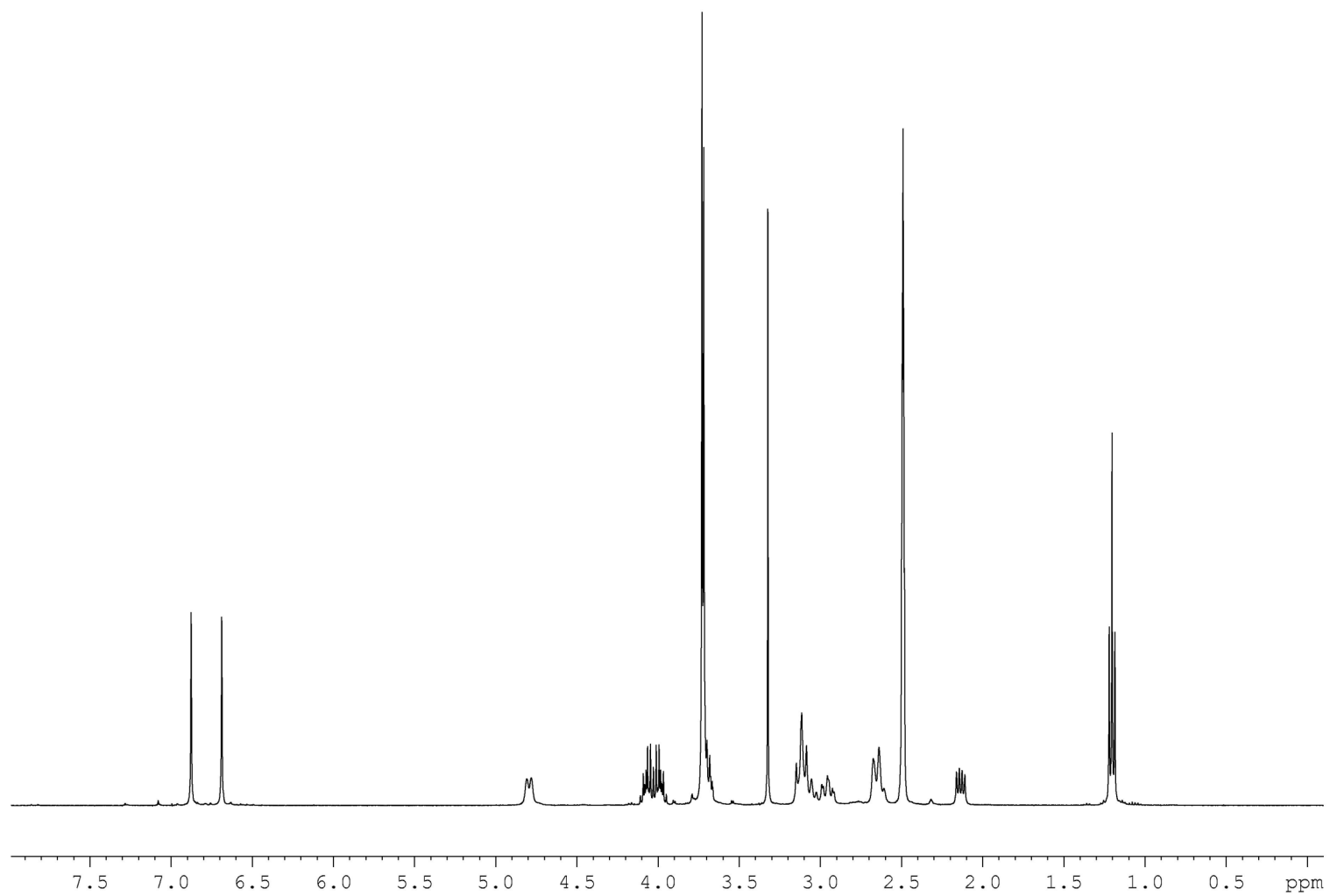
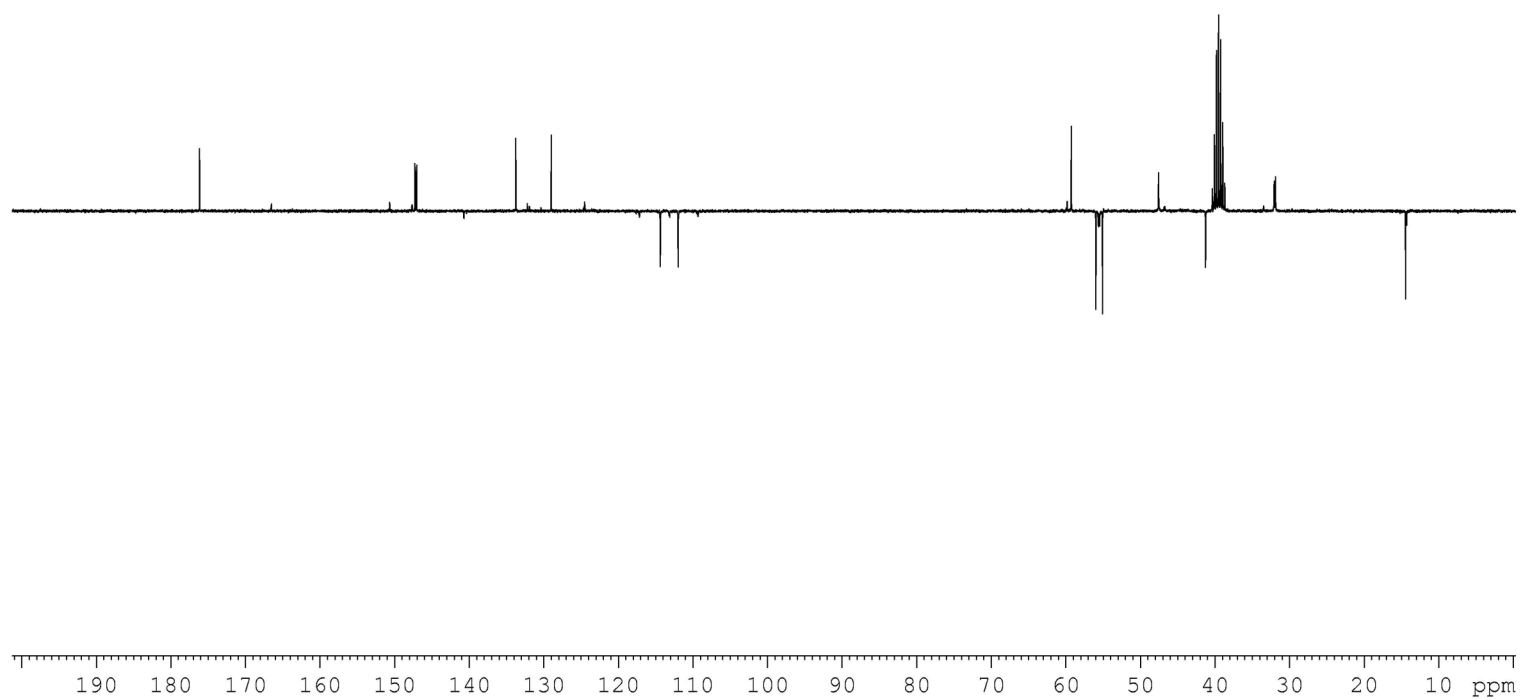


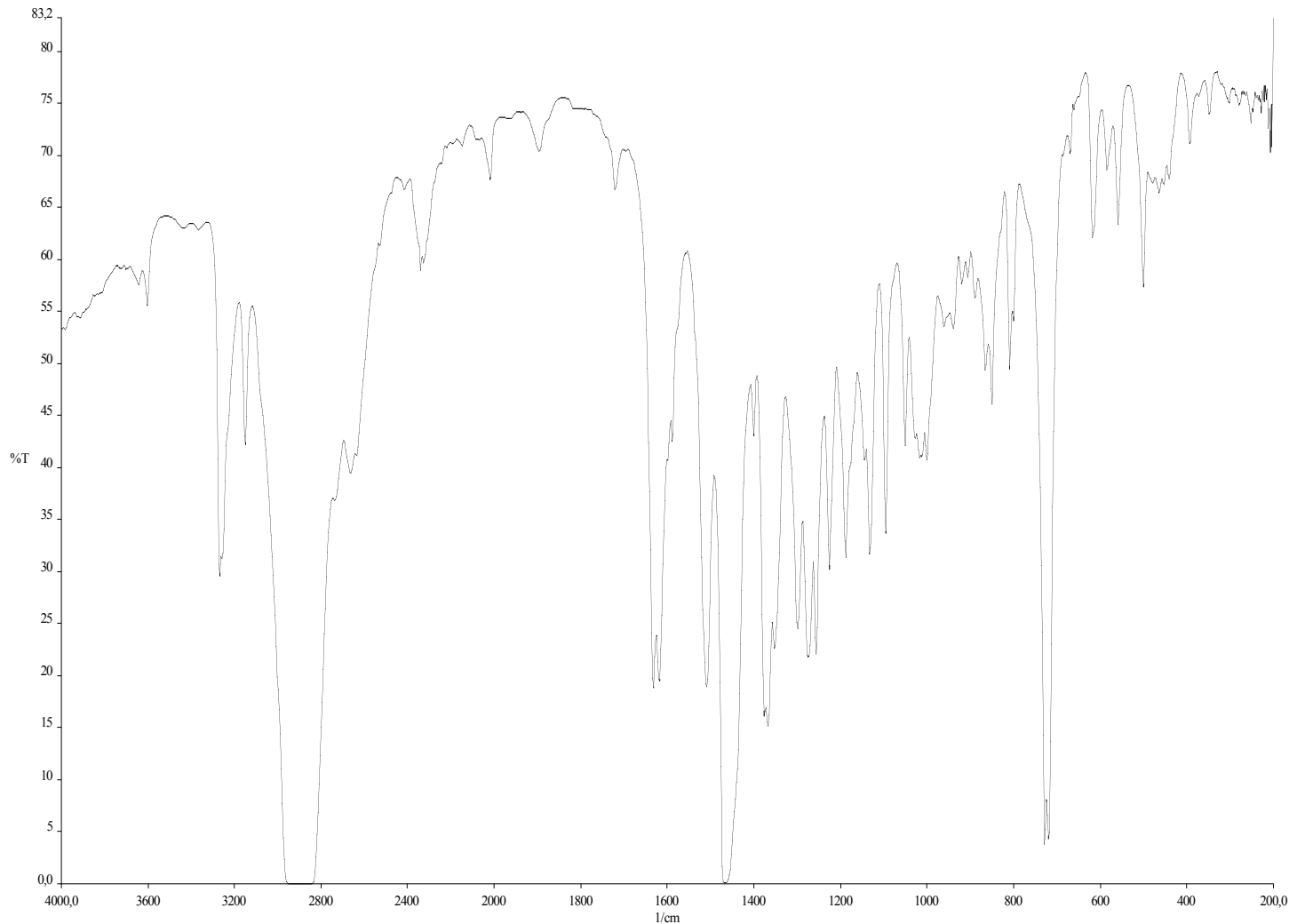
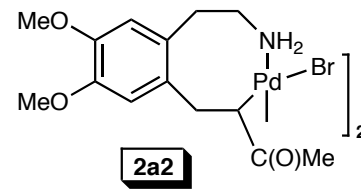
IR spectrum of 2a1 (Nujol, cm⁻¹)



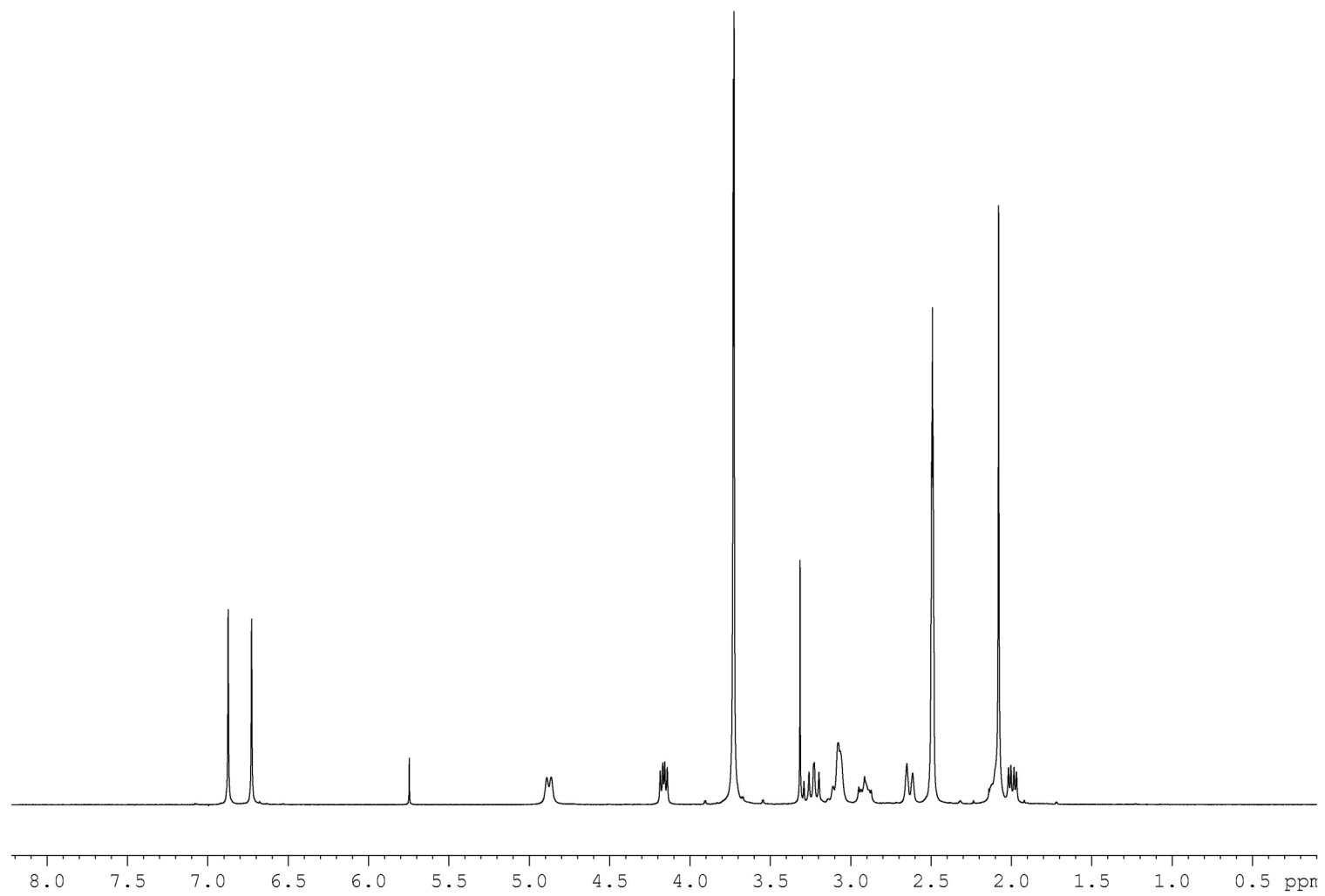
^1H NMR spectrum of 2a1 (DMSO- d_6 , 25 °C)



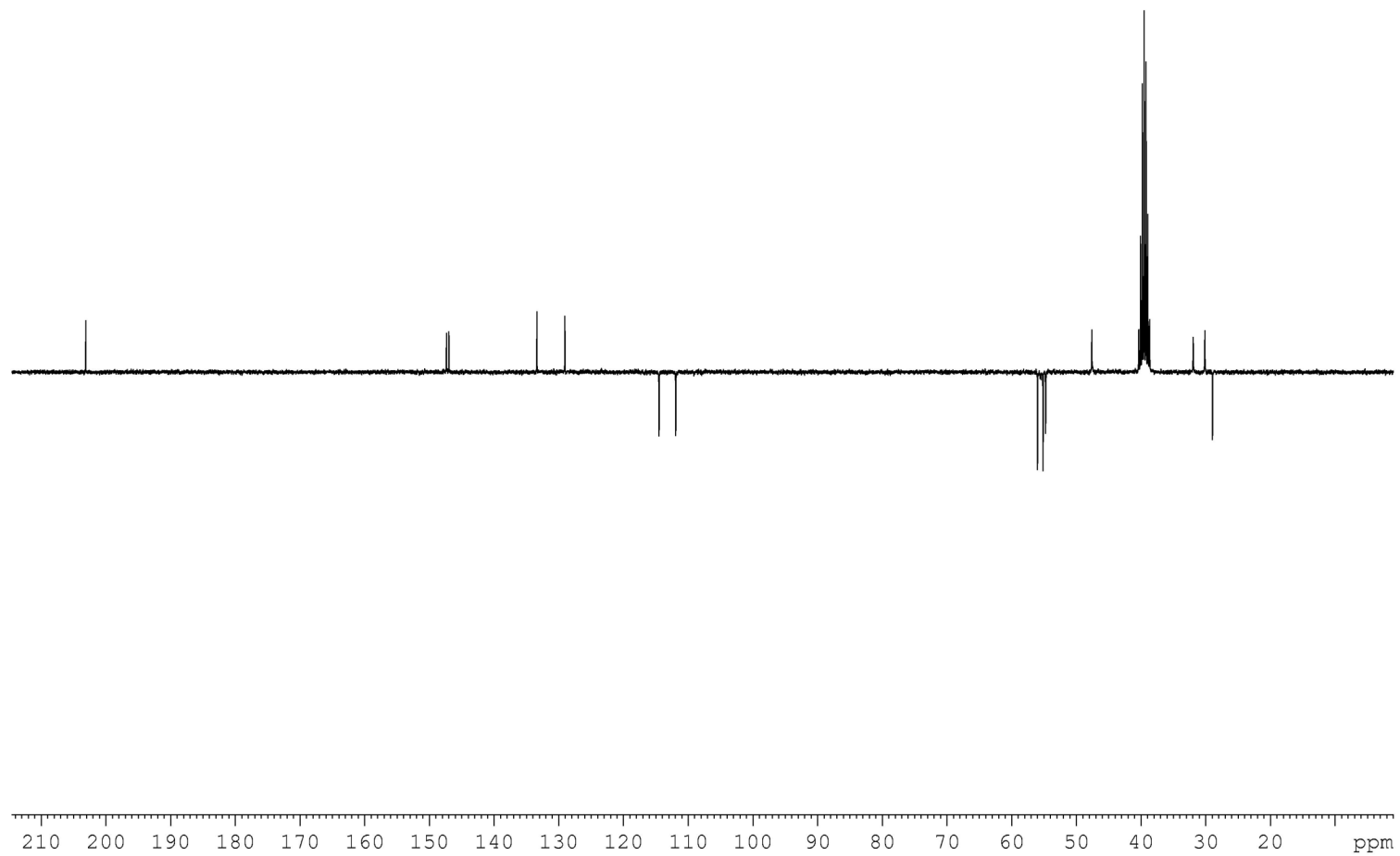
^{13}C APT NMR spectrum of 2a1 (DMSO- d_6 , 25 °C)



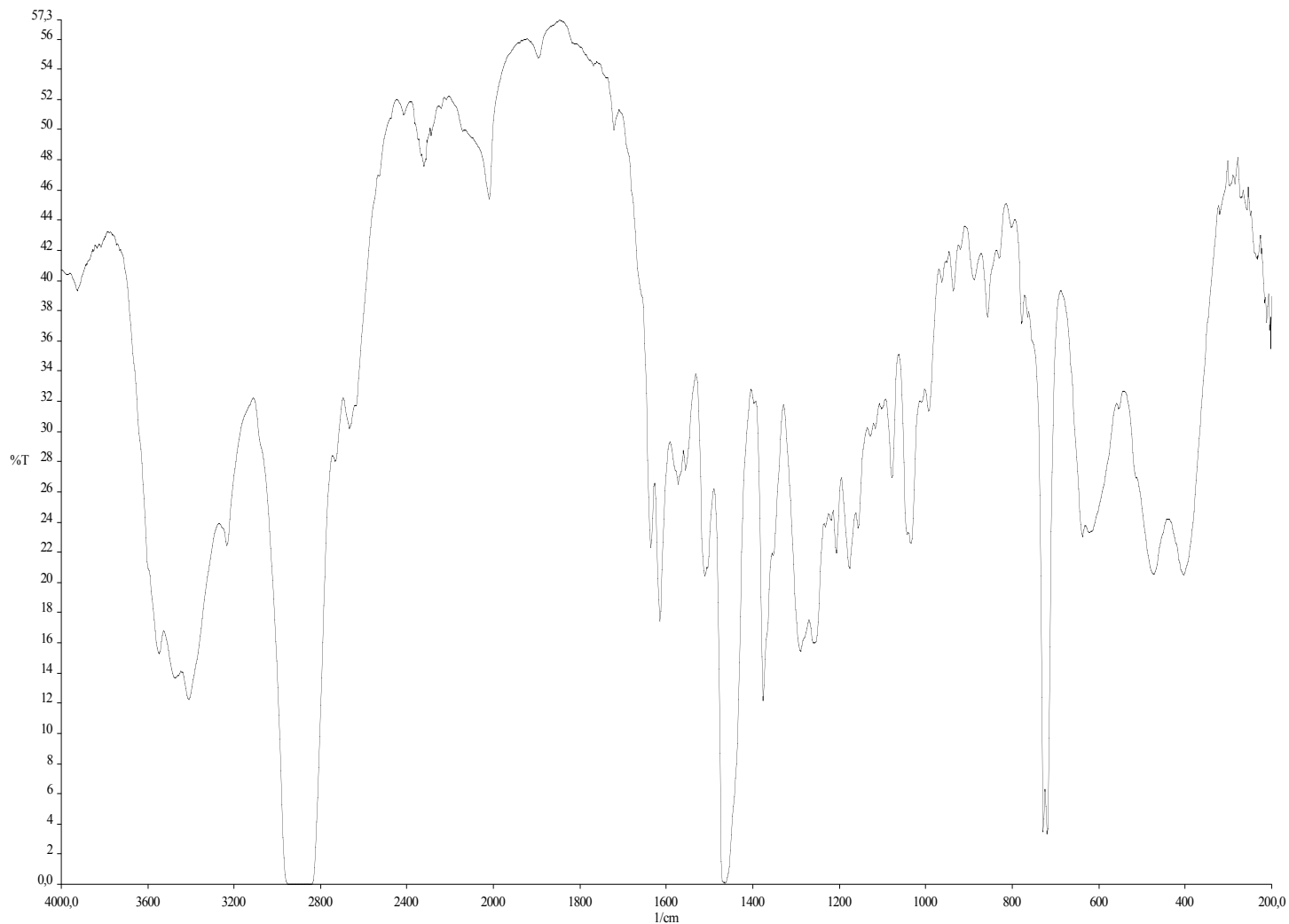
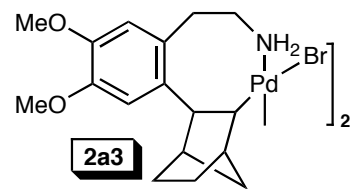
IR spectrum of 2a2 (Nujol, cm⁻¹)



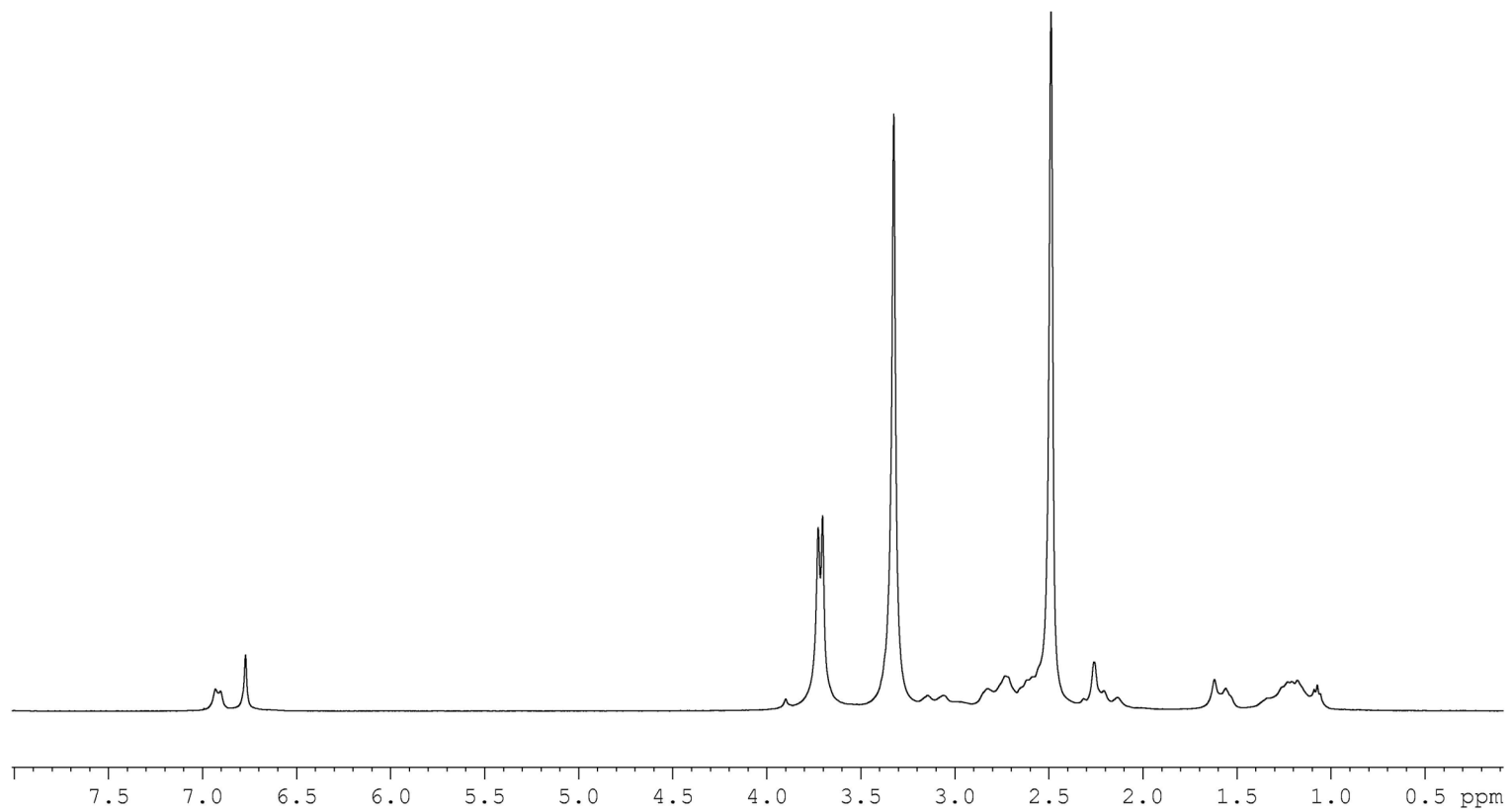
^1H NMR spectrum of 2a2 (DMSO- d_6 , 25 °C)



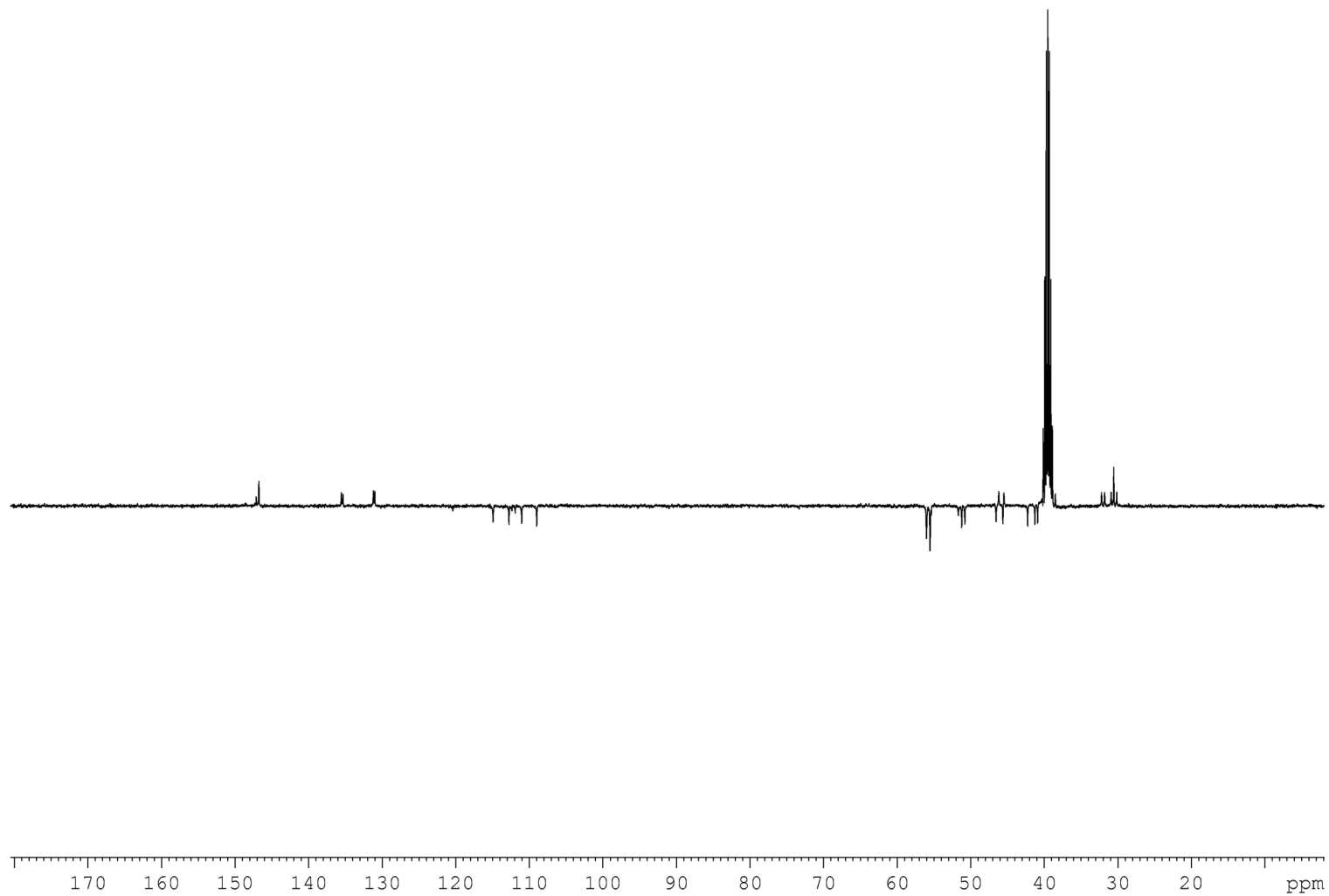
^{13}C APT NMR spectrum of 2a2 (DMSO- d_6 , 25 °C)



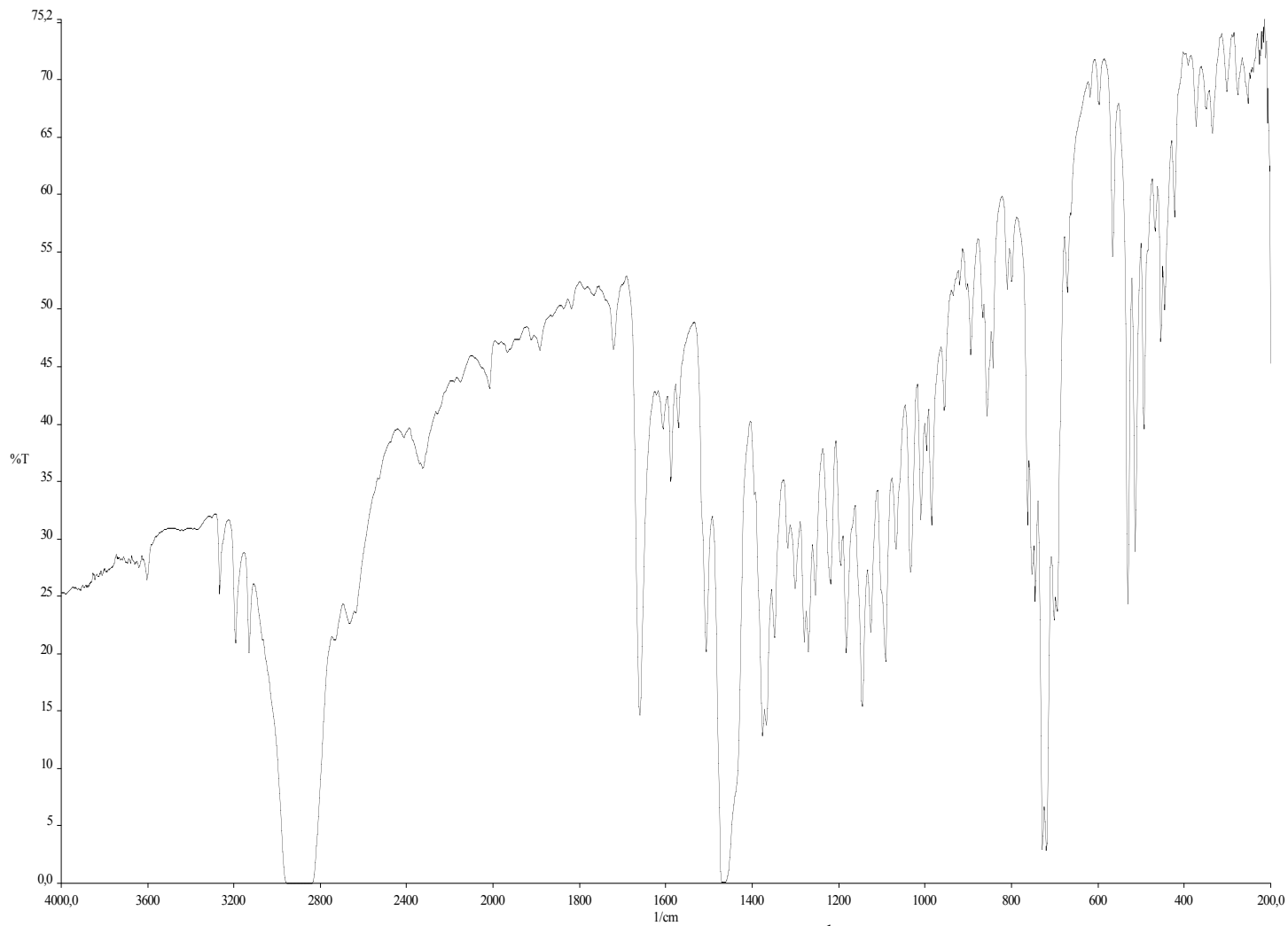
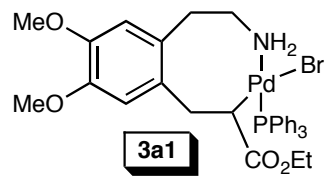
IR spectrum of 2a3 (Nujol, cm^{-1})



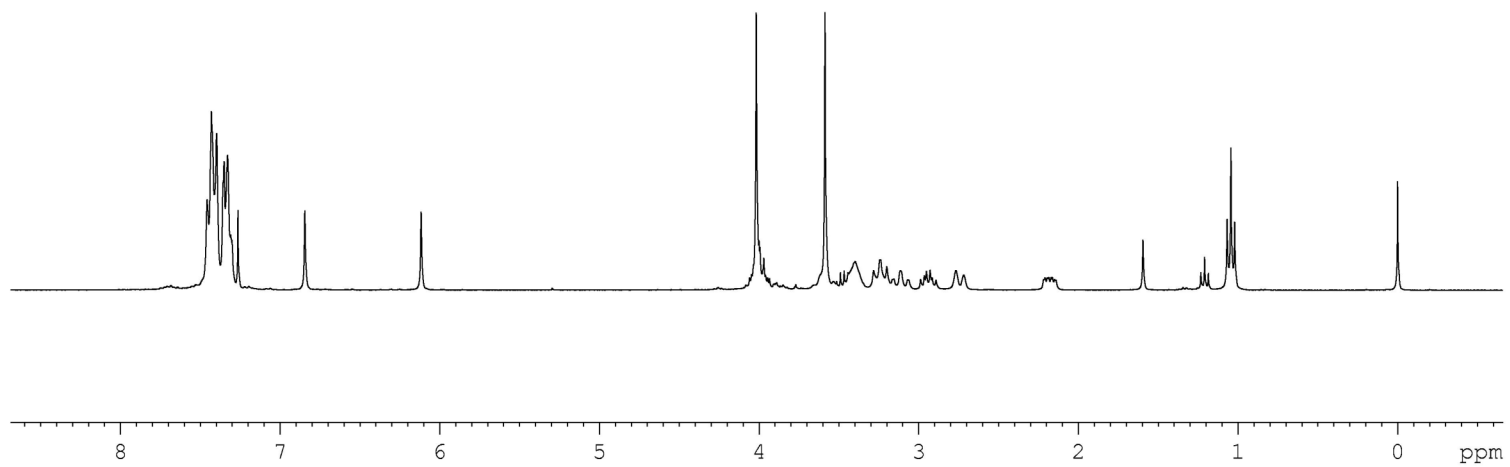
^1H NMR spectrum of 2a3 (DMSO- d_6 , 25 °C)



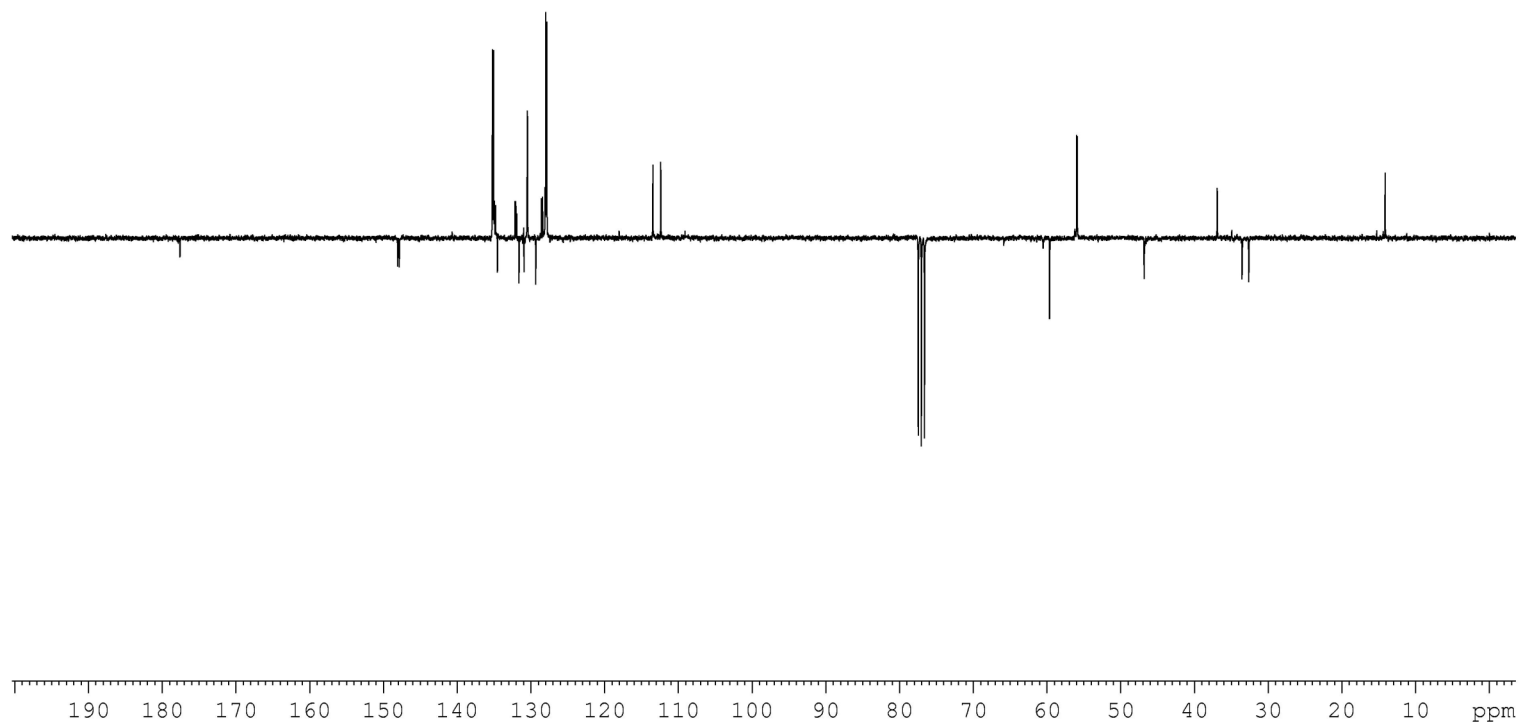
^{13}C APT NMR spectrum of **2a3** (DMSO- d_6 , 25 °C)



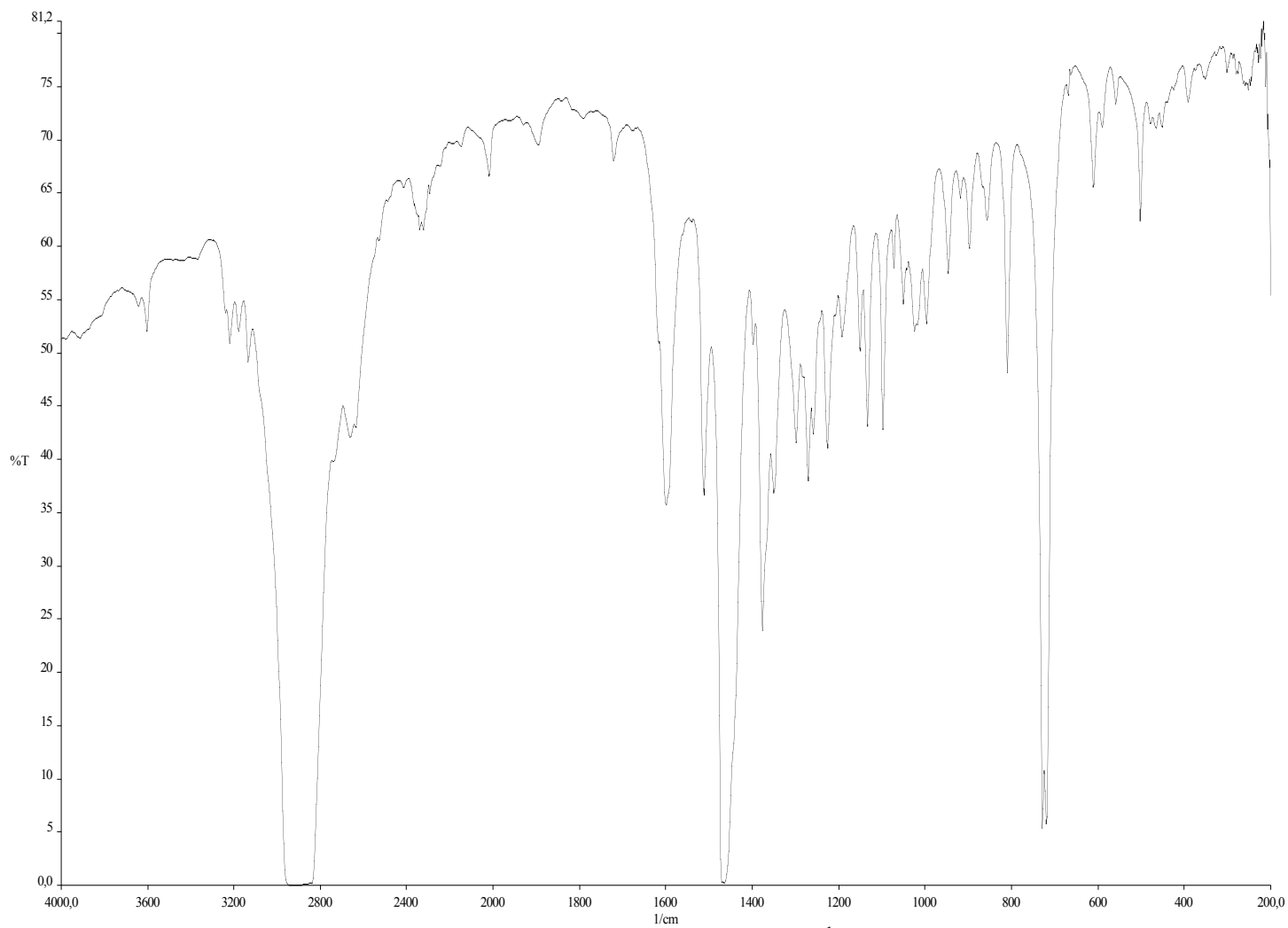
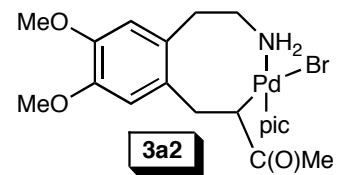
IR spectrum of 3a1 (Nujol, cm⁻¹)



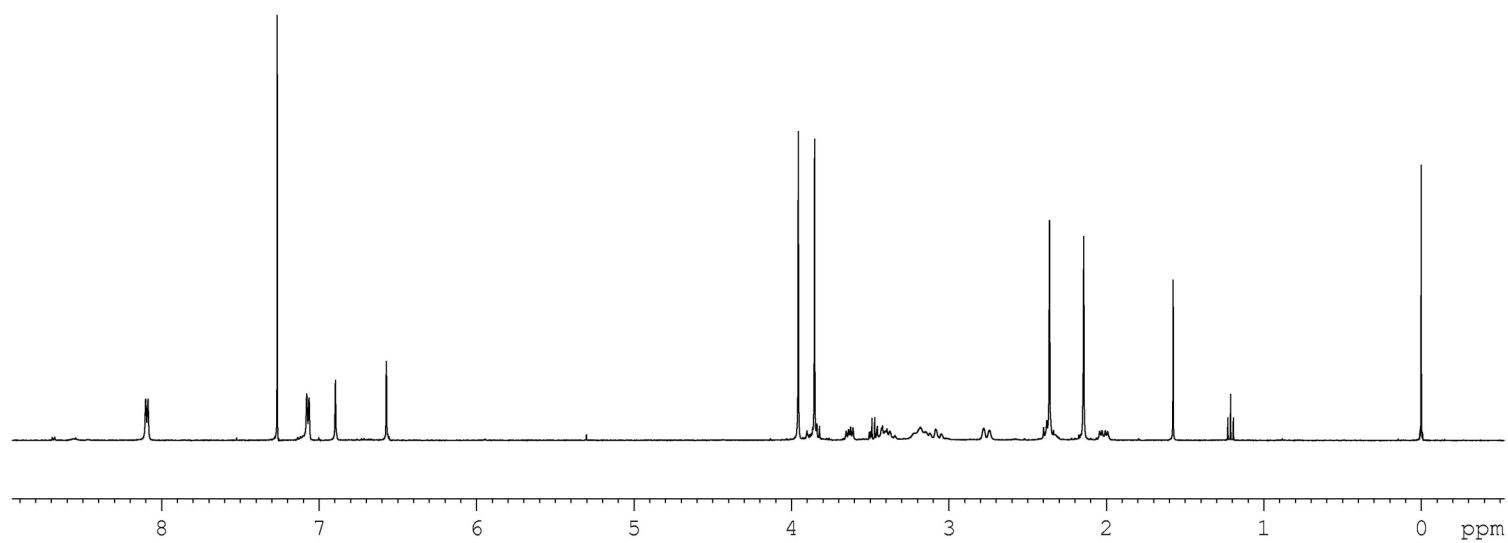
^1H NMR spectrum of 3a1 (CDCl₃ + TMS, 25 °C)



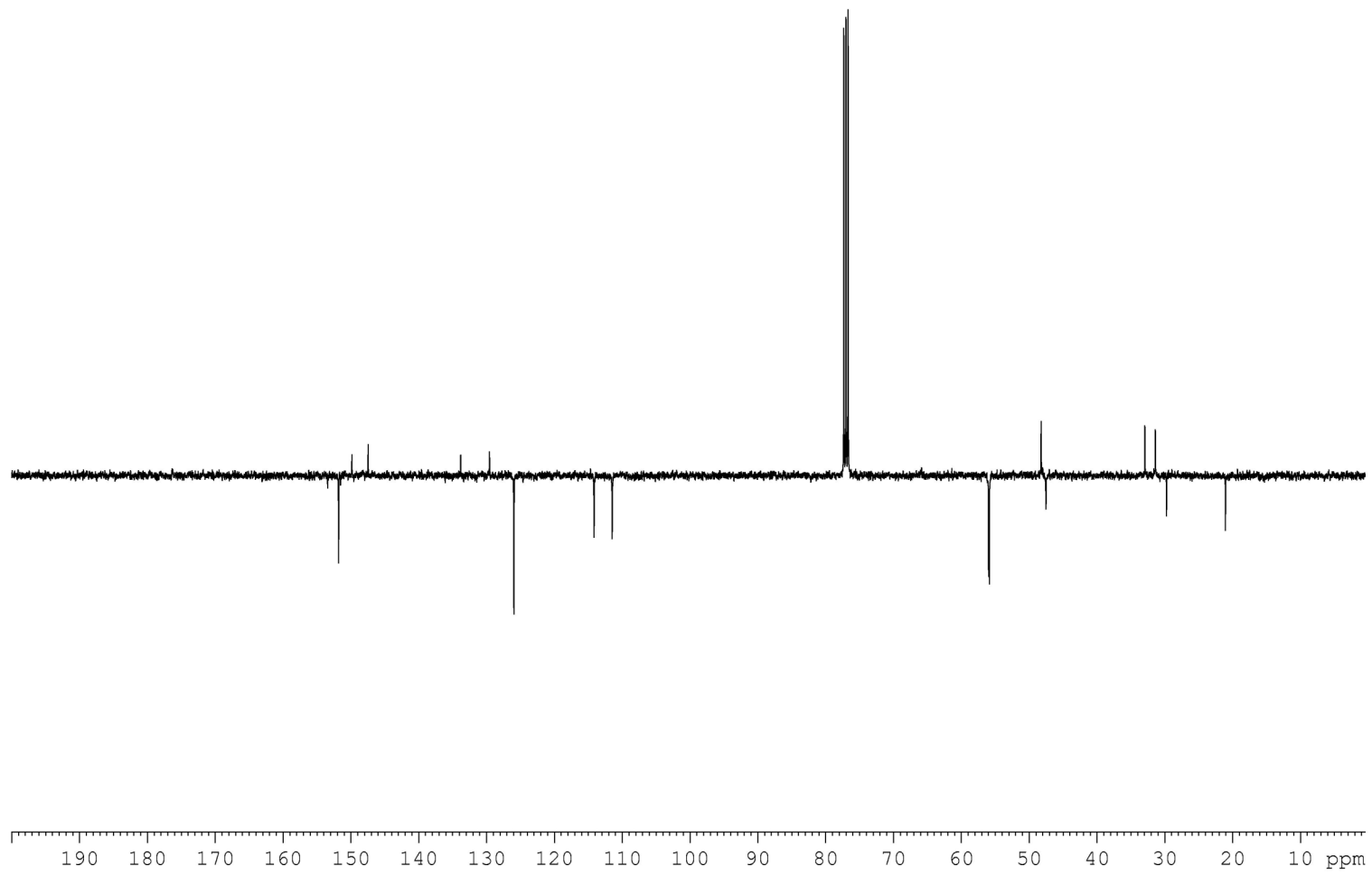
^{13}C APT NMR spectrum of 3a1 (CDCl₃ + TMS, 25 °C)



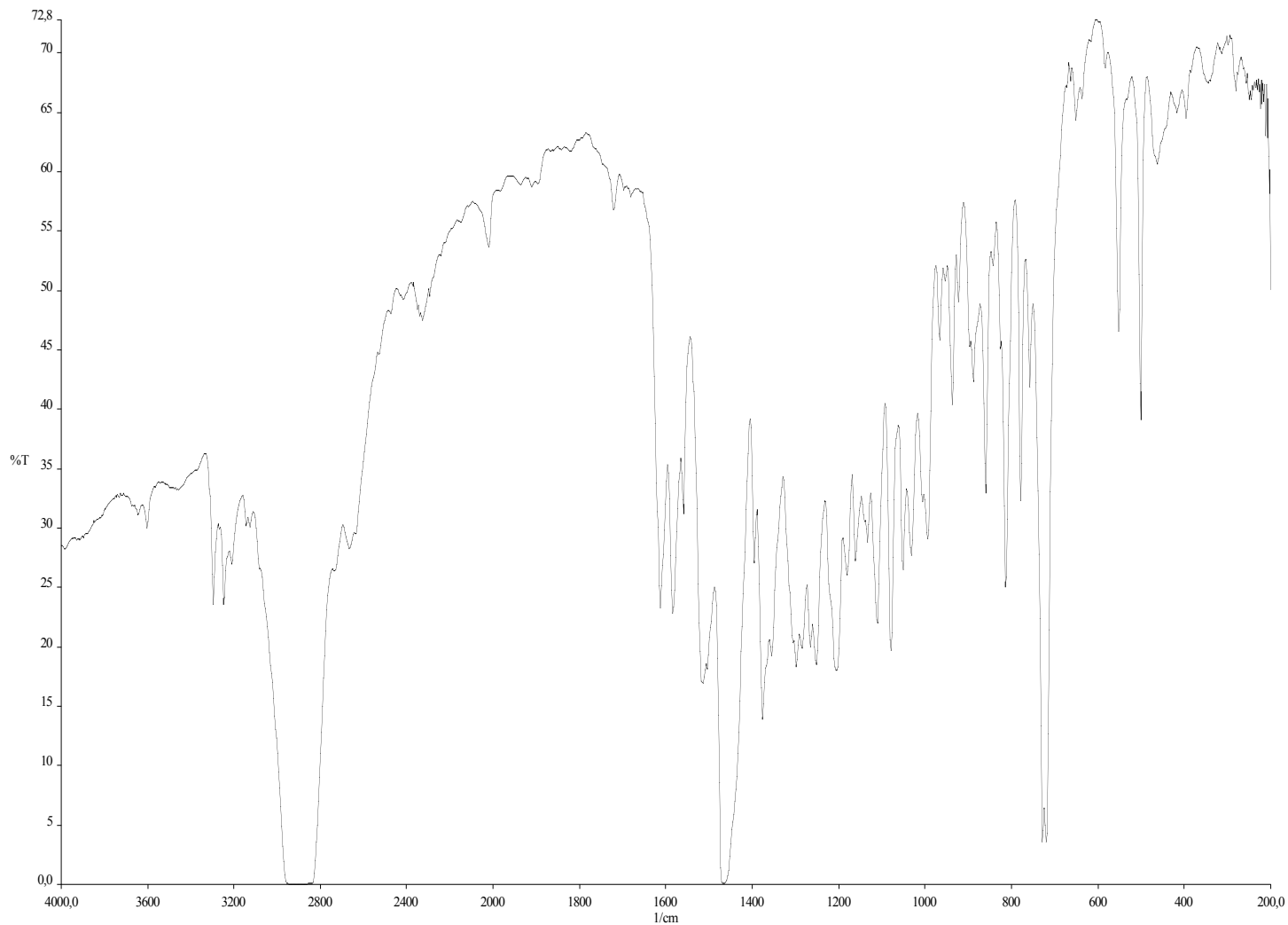
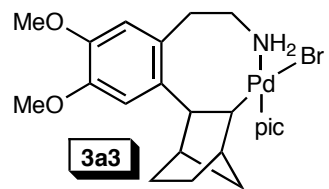
IR spectrum of 3a2 (Nujol, cm⁻¹)



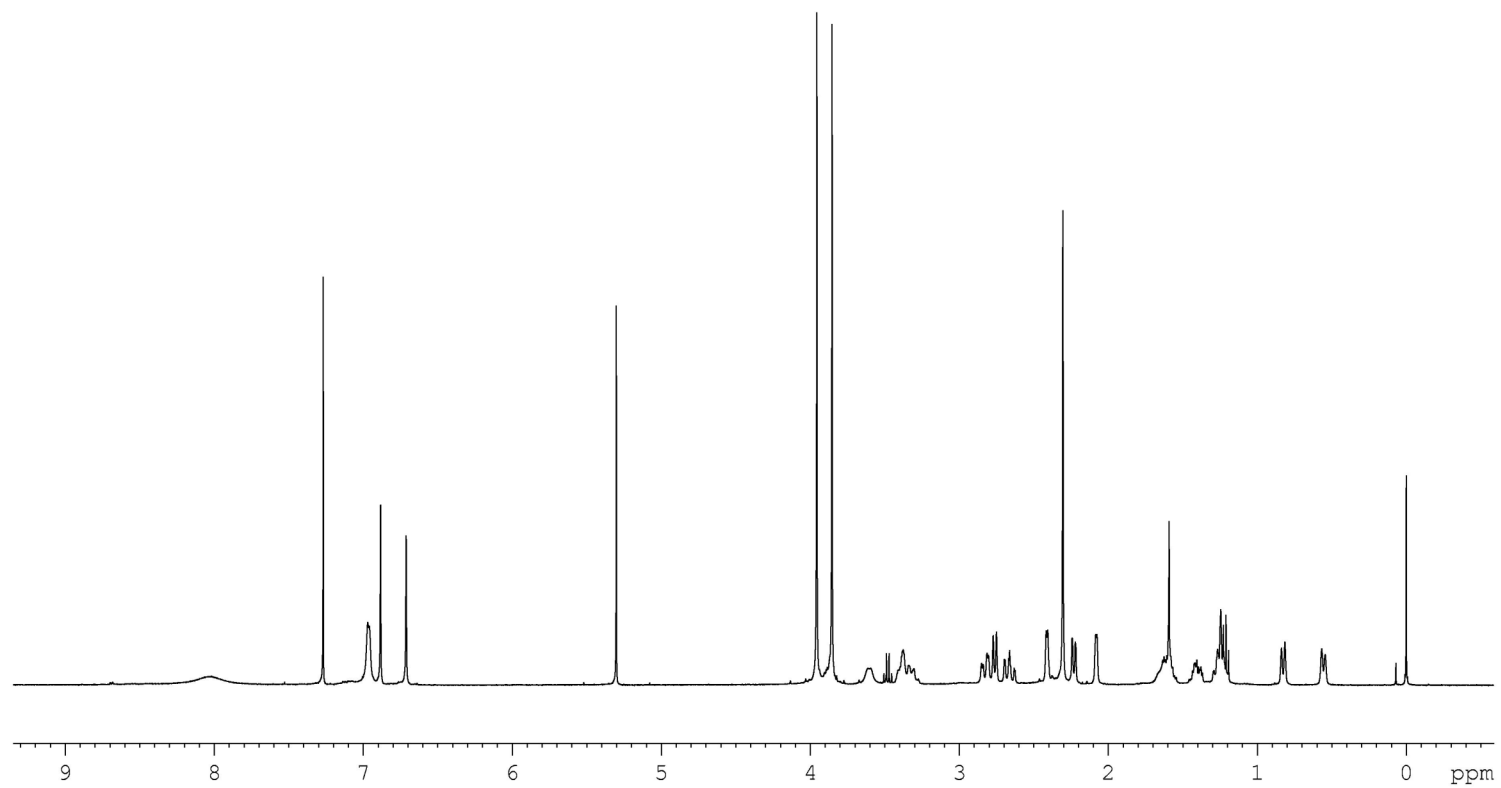
^1H NMR spectrum of 3a2 (CDCl₃ + TMS, 25 °C)



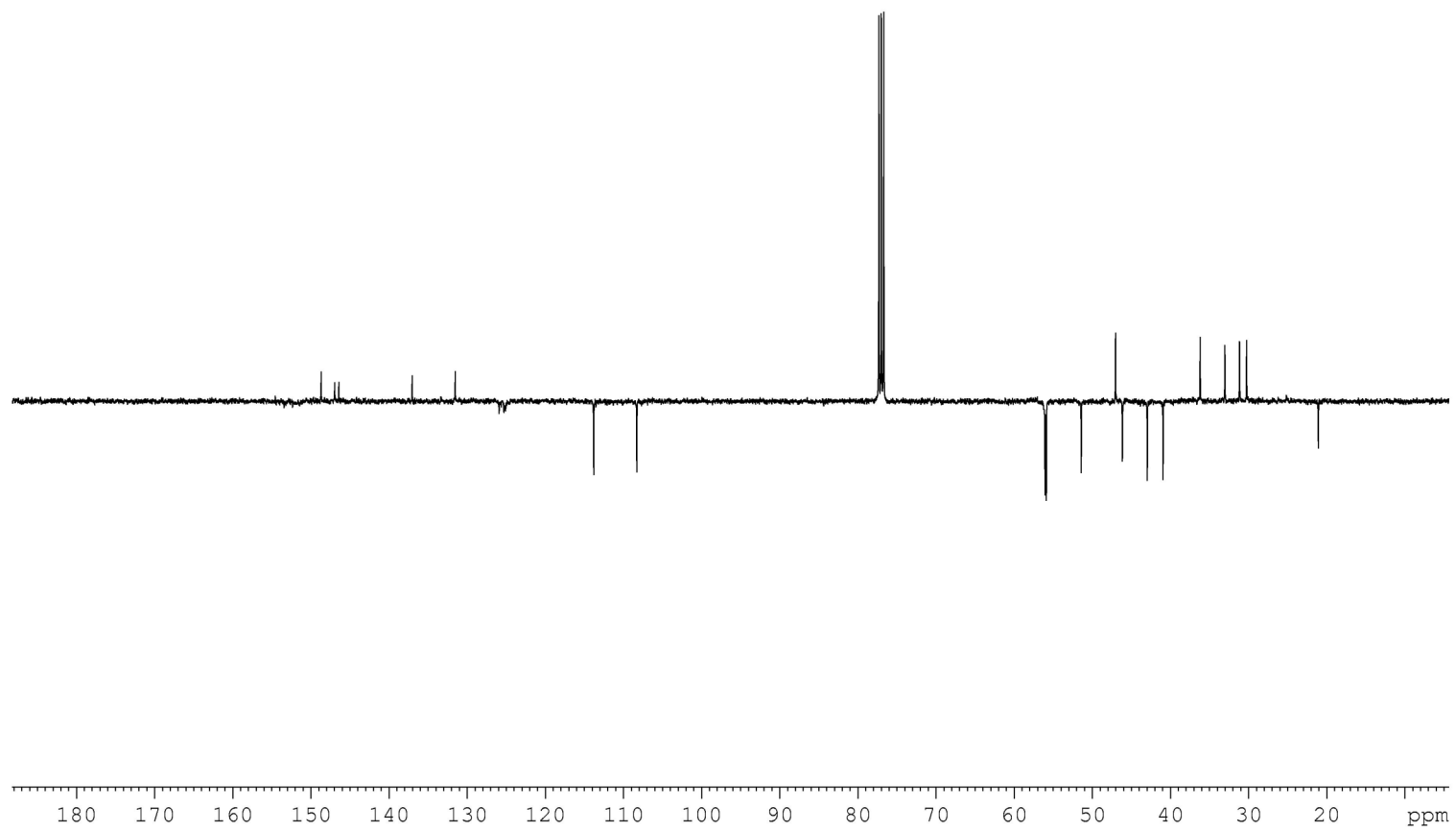
^{13}C APT NMR spectrum of **3a2** ($\text{CDCl}_3 + \text{TMS}$, $25\text{ }^\circ\text{C}$)



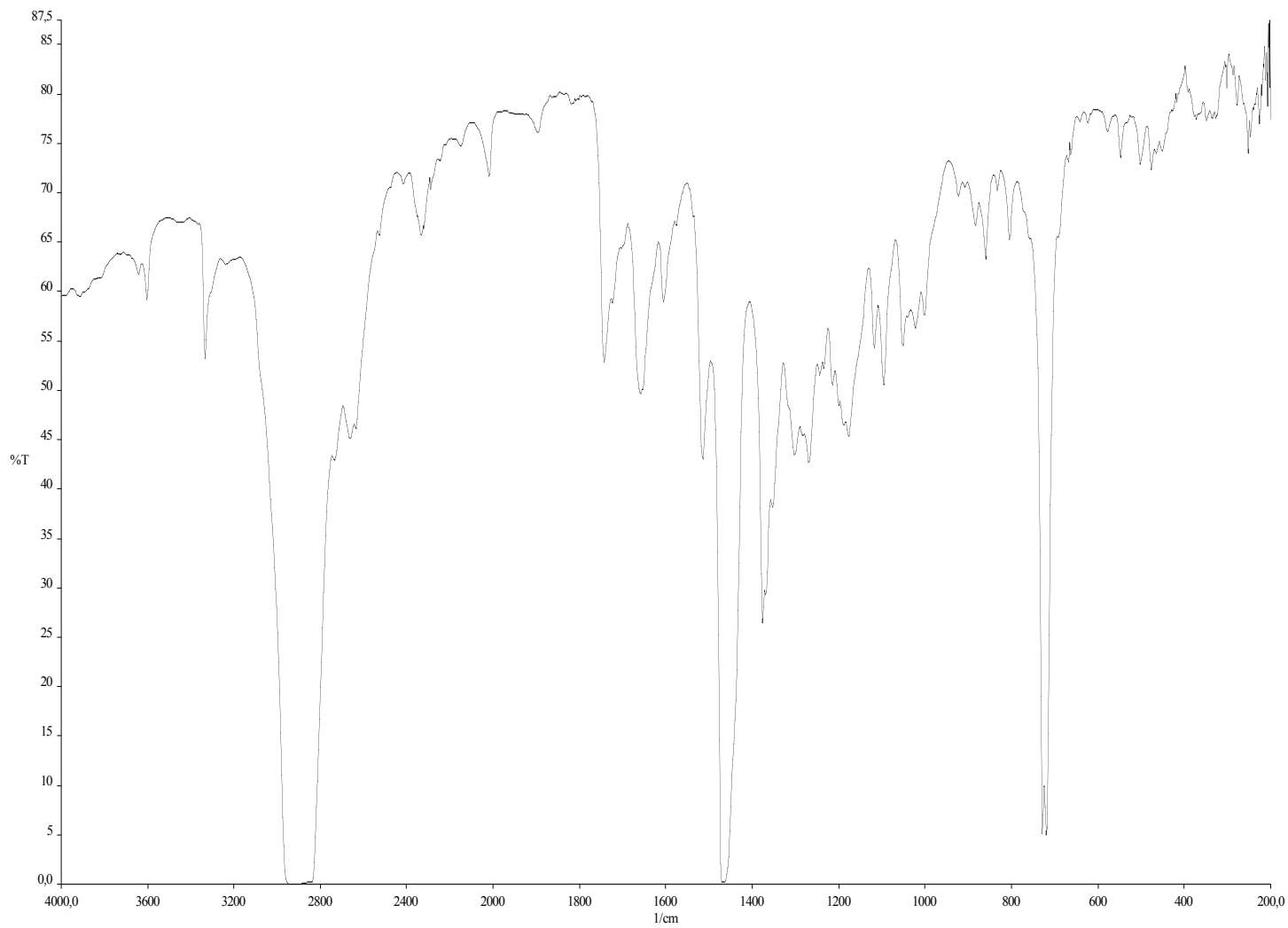
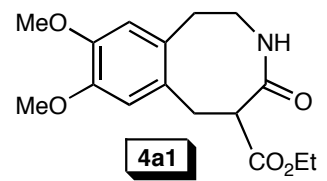
IR spectrum of 3a3 (Nujol, cm^{-1})



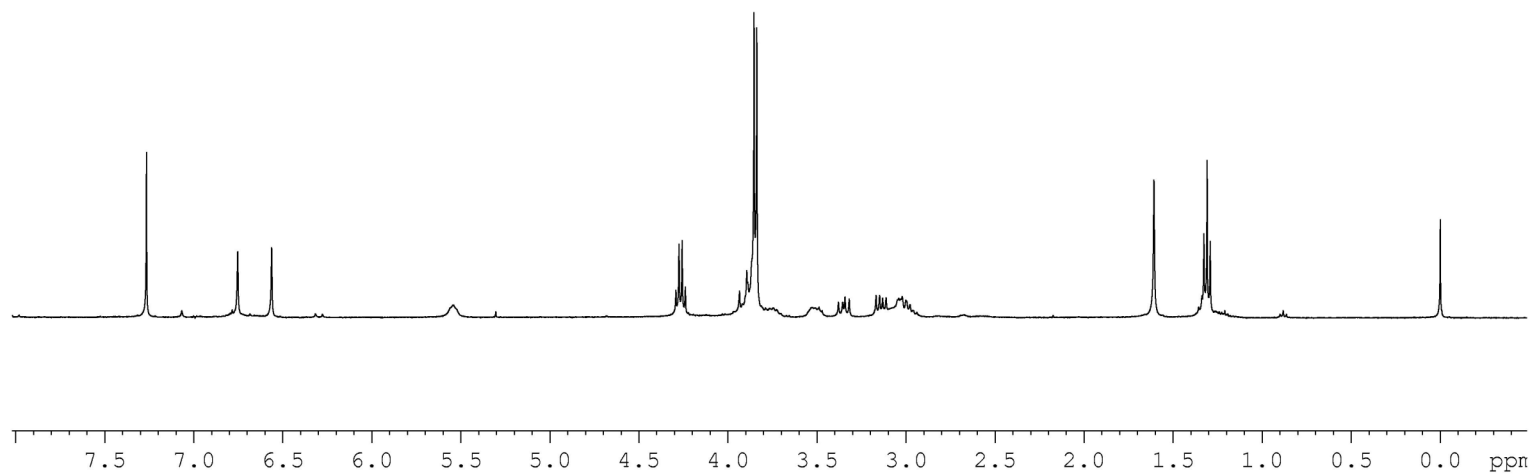
^1H NMR spectrum of 3a3 (CDCl₃ + TMS, 25 °C)



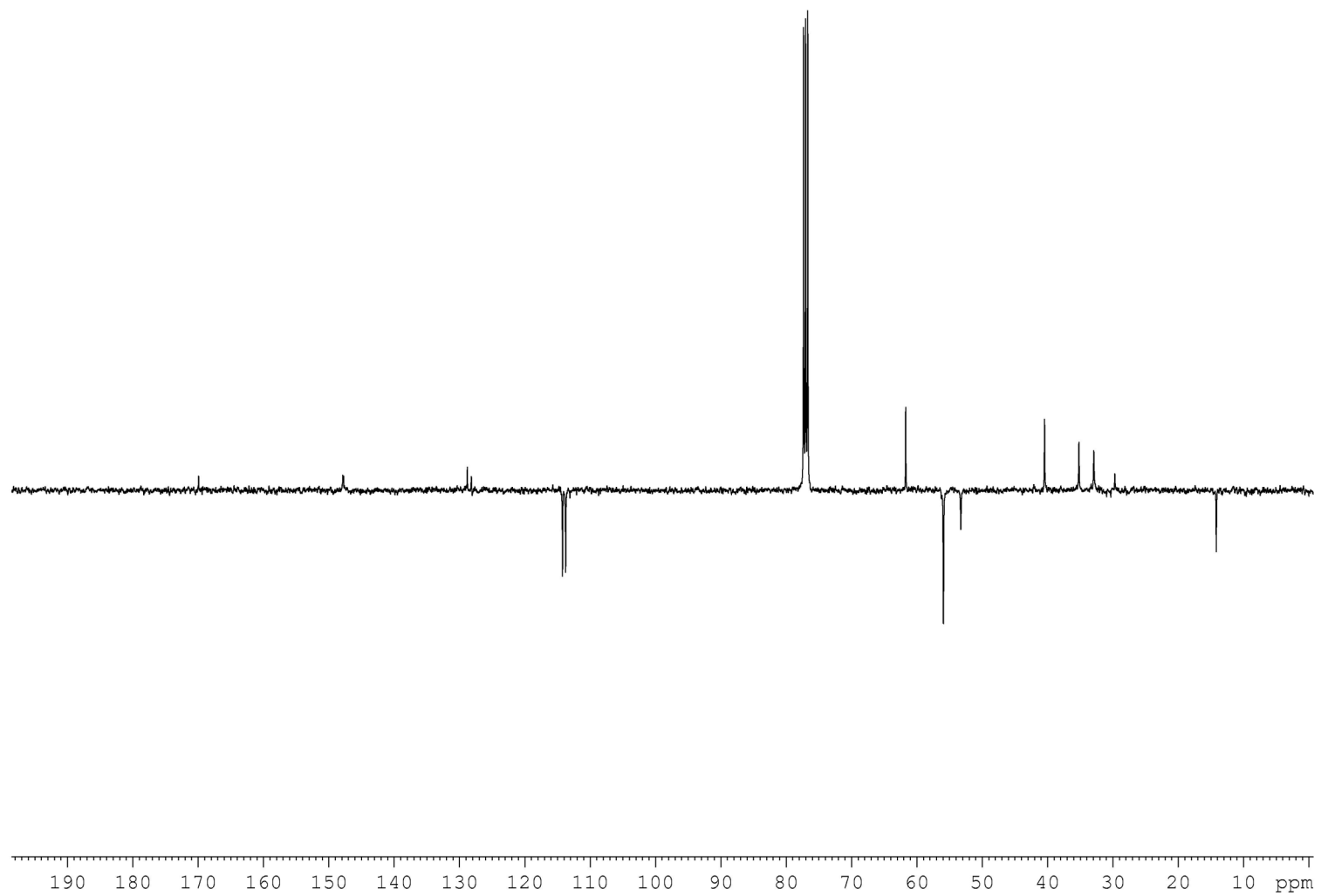
¹³C APT NMR spectrum of 3a3 (CDCl₃ + TMS, 25 °C)



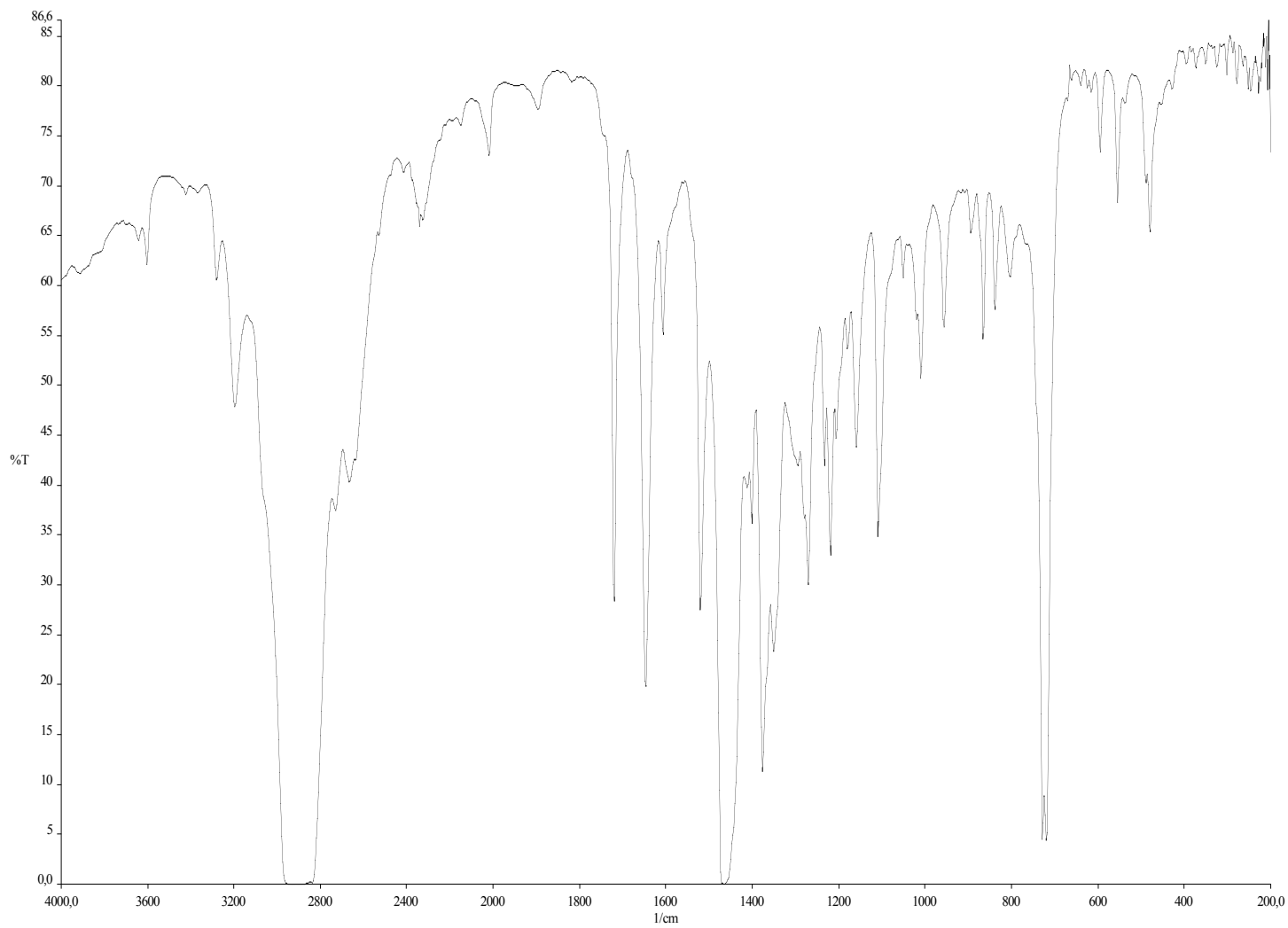
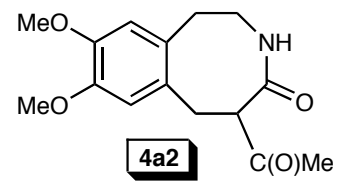
IR spectrum of 4a1 (Nujol, cm^{-1})



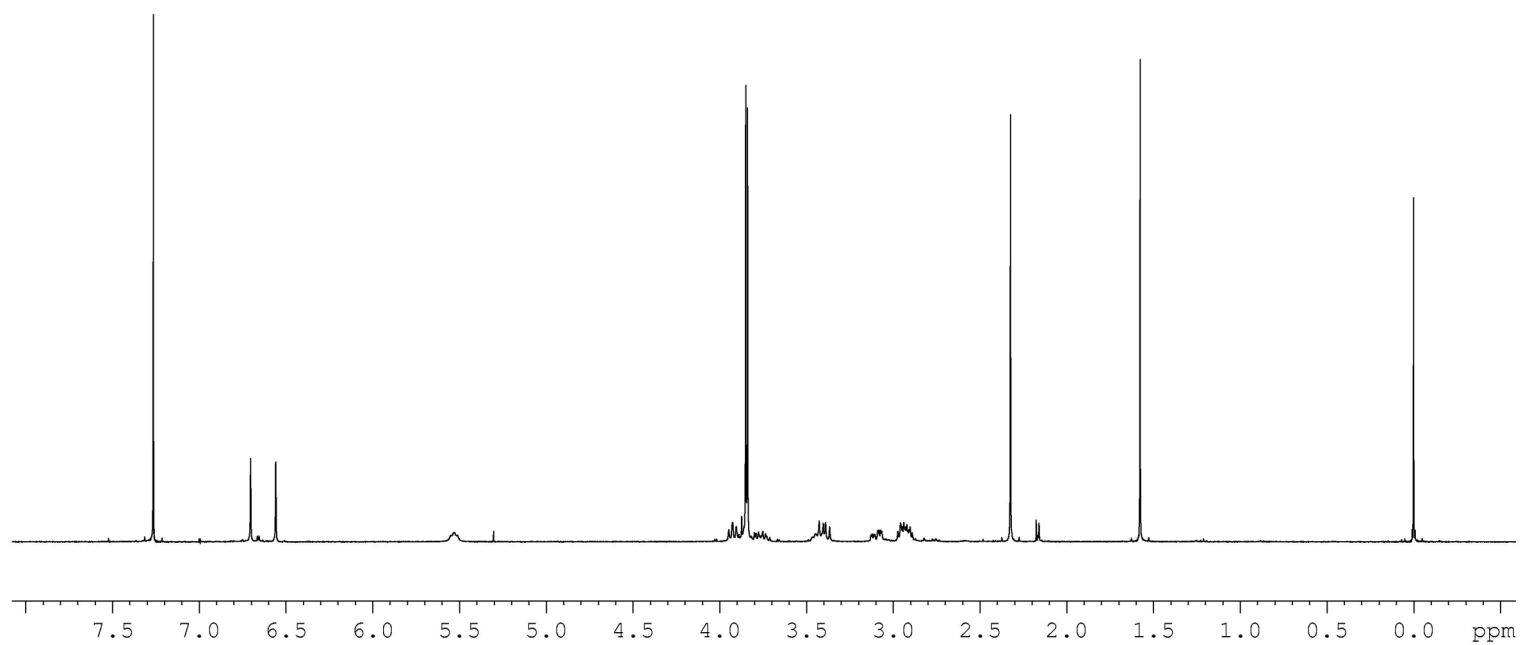
^1H NMR spectrum of 4a1 (CDCl₃ + TMS, 25 °C)



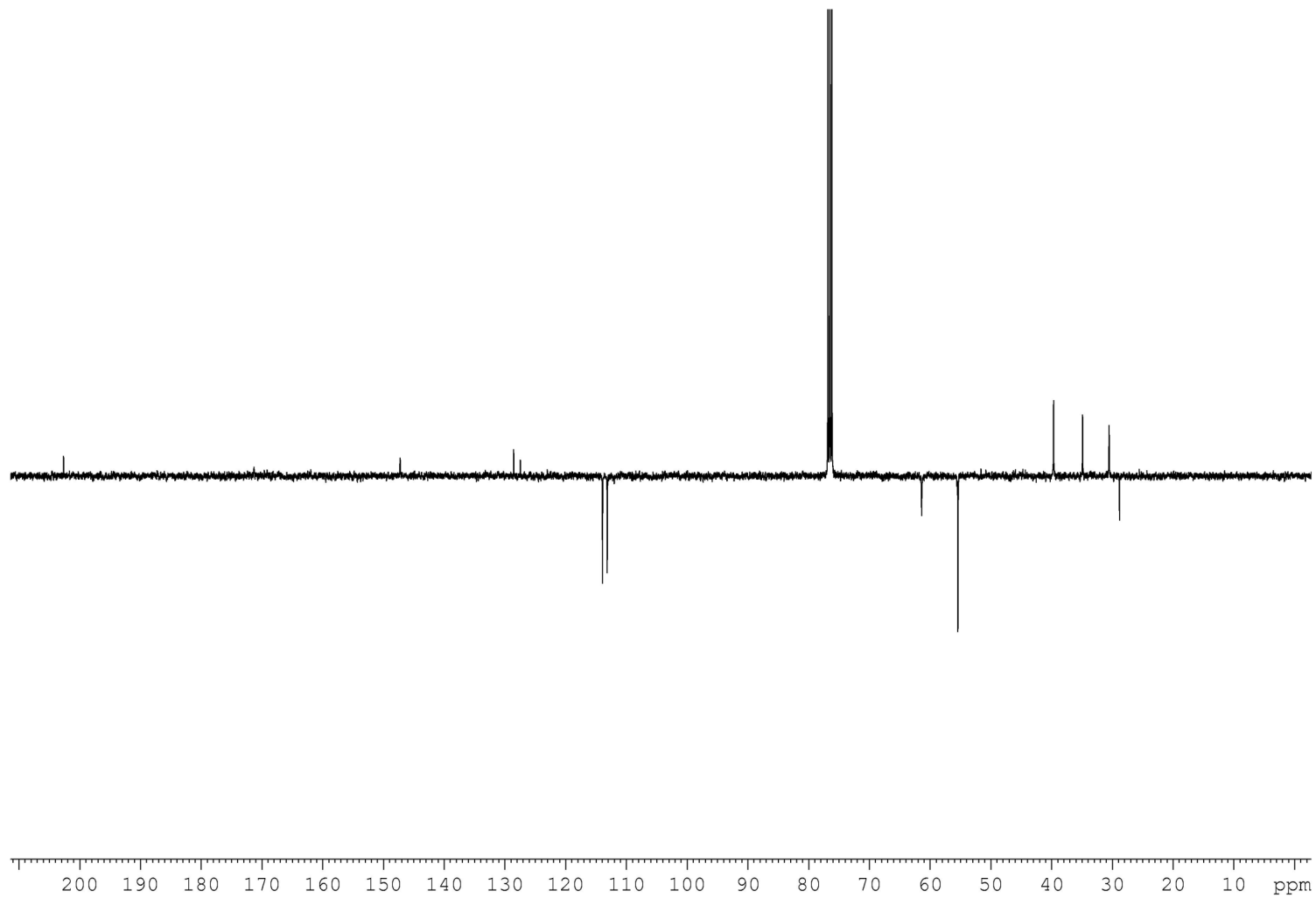
^{13}C APT NMR spectrum of **4a1** ($\text{CDCl}_3 + \text{TMS}$, $25\text{ }^\circ\text{C}$)



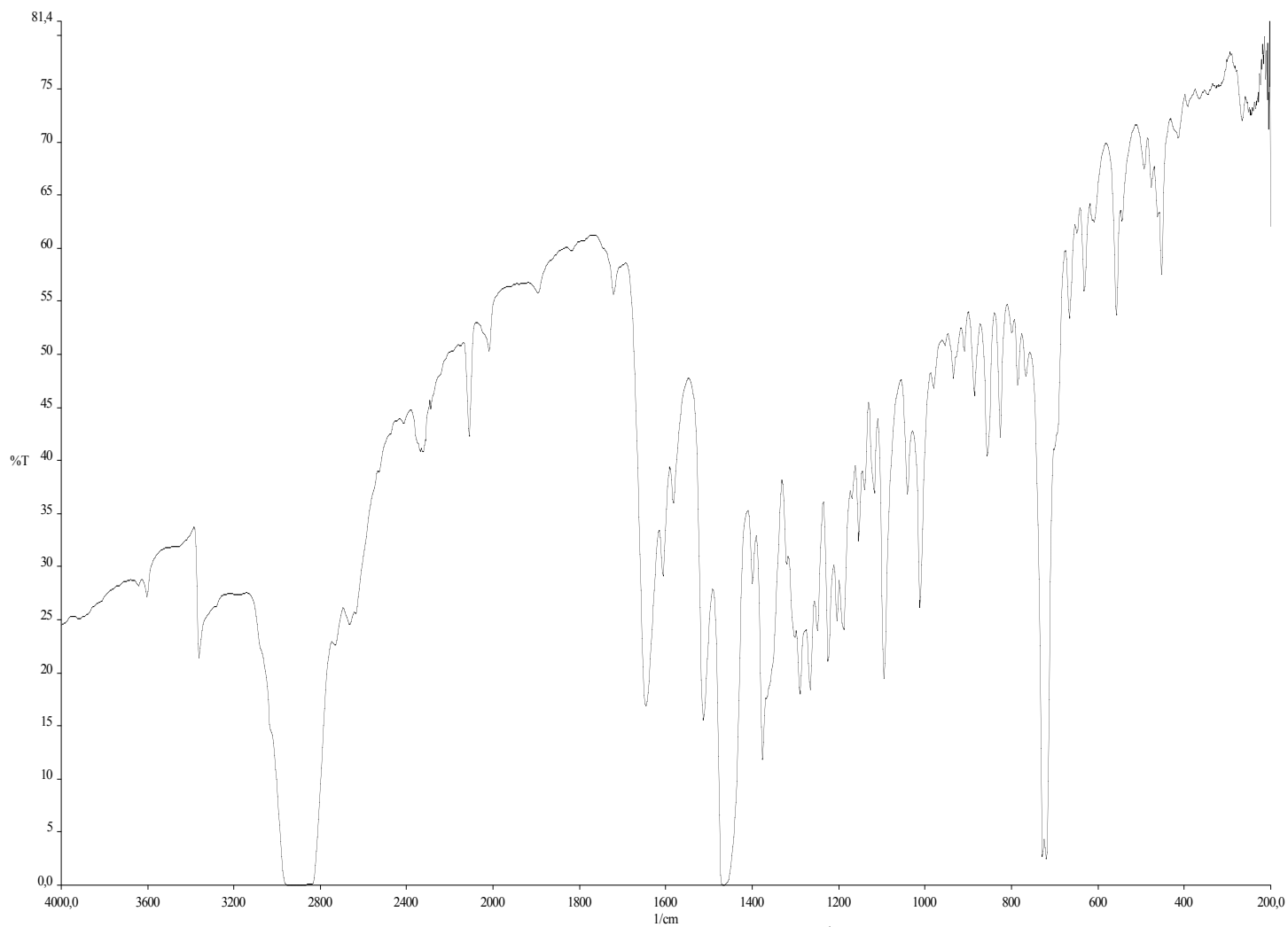
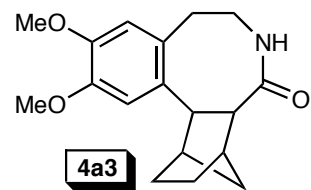
IR spectrum of 4a2 (Nujol, cm⁻¹)



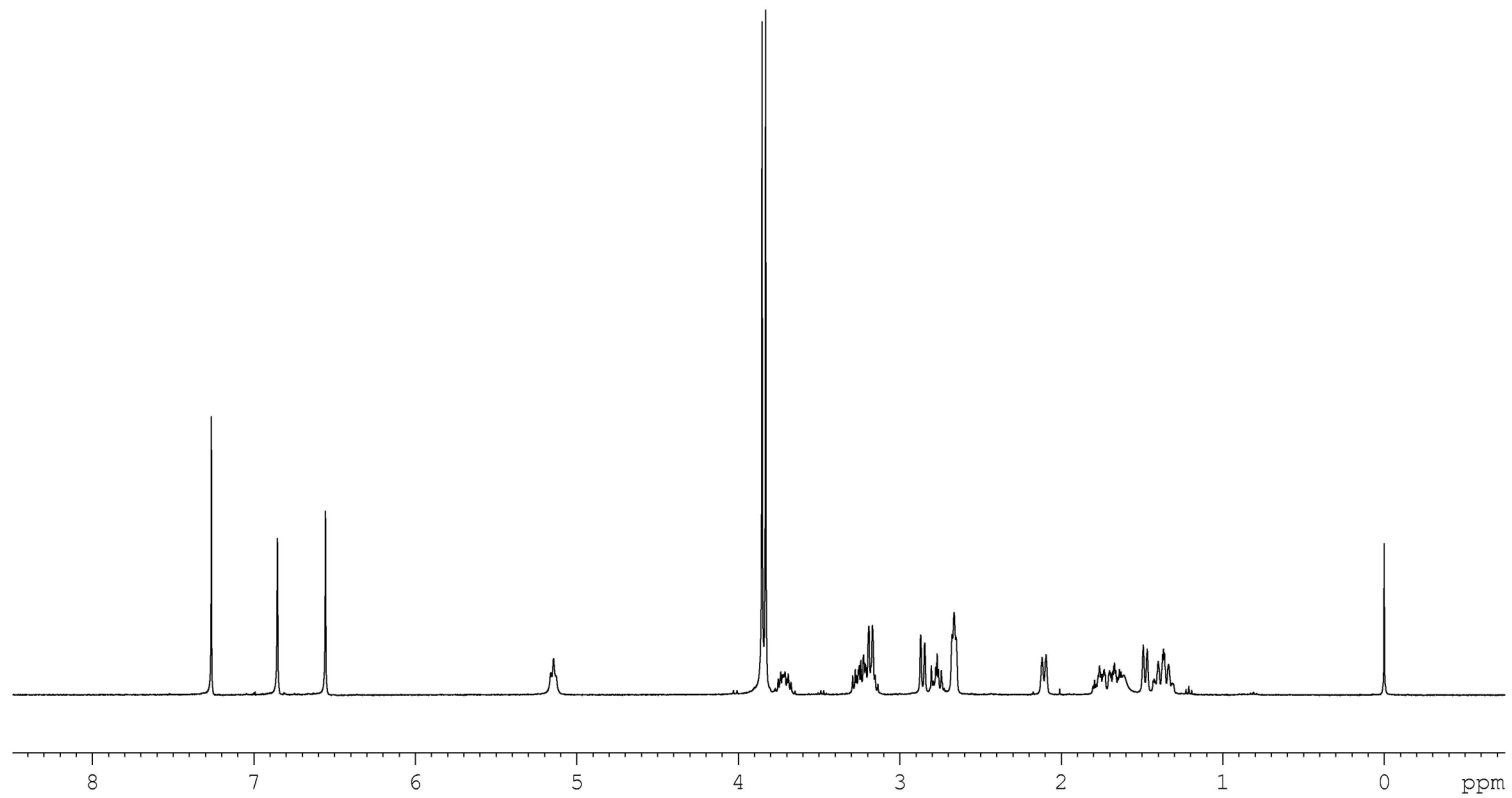
^1H NMR spectrum of 4a2 (CDCl_3 + TMS, 25 °C)



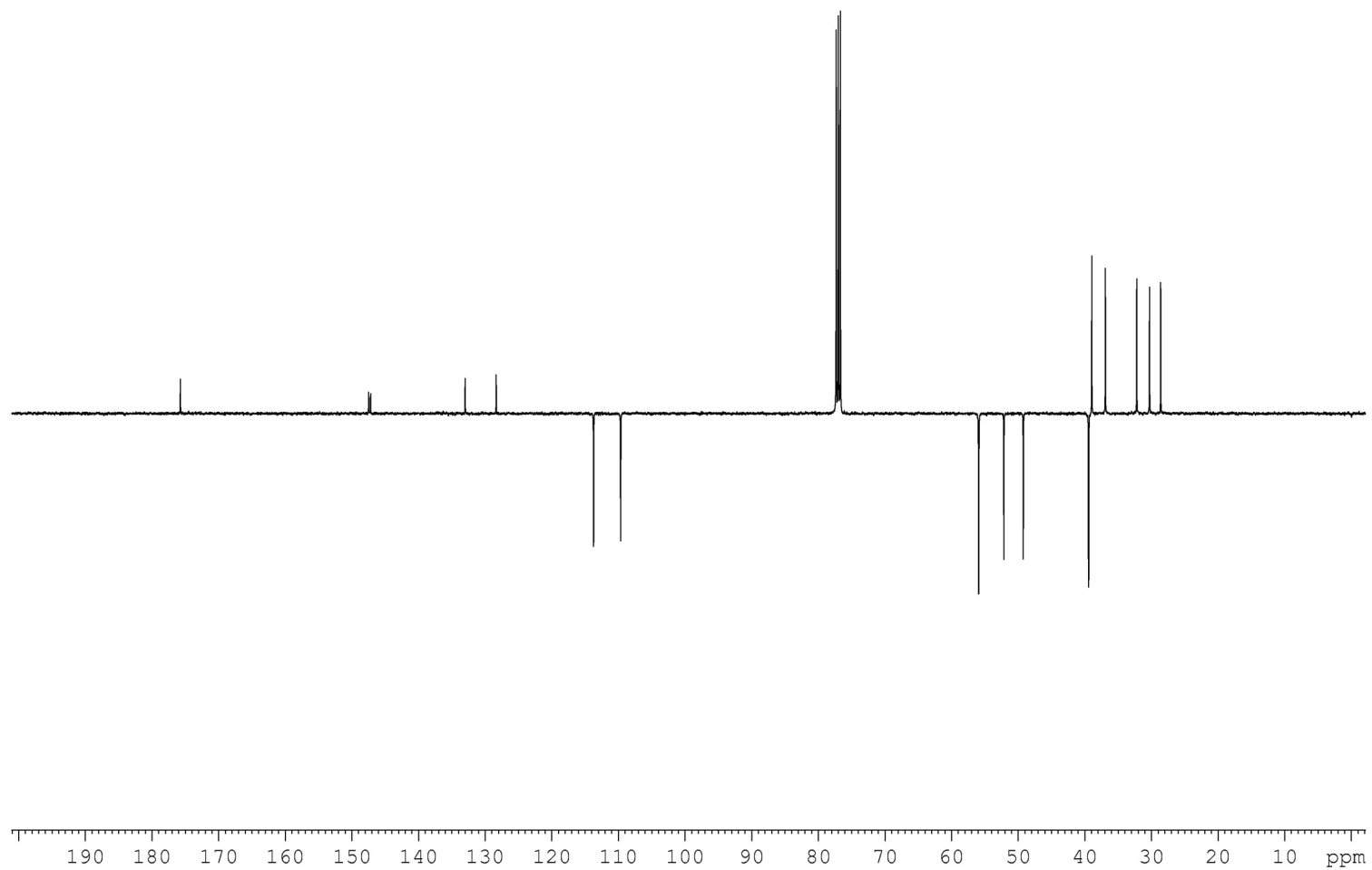
^{13}C APT NMR spectrum of **4a2** ($\text{CDCl}_3 + \text{TMS}$, 25 °C)



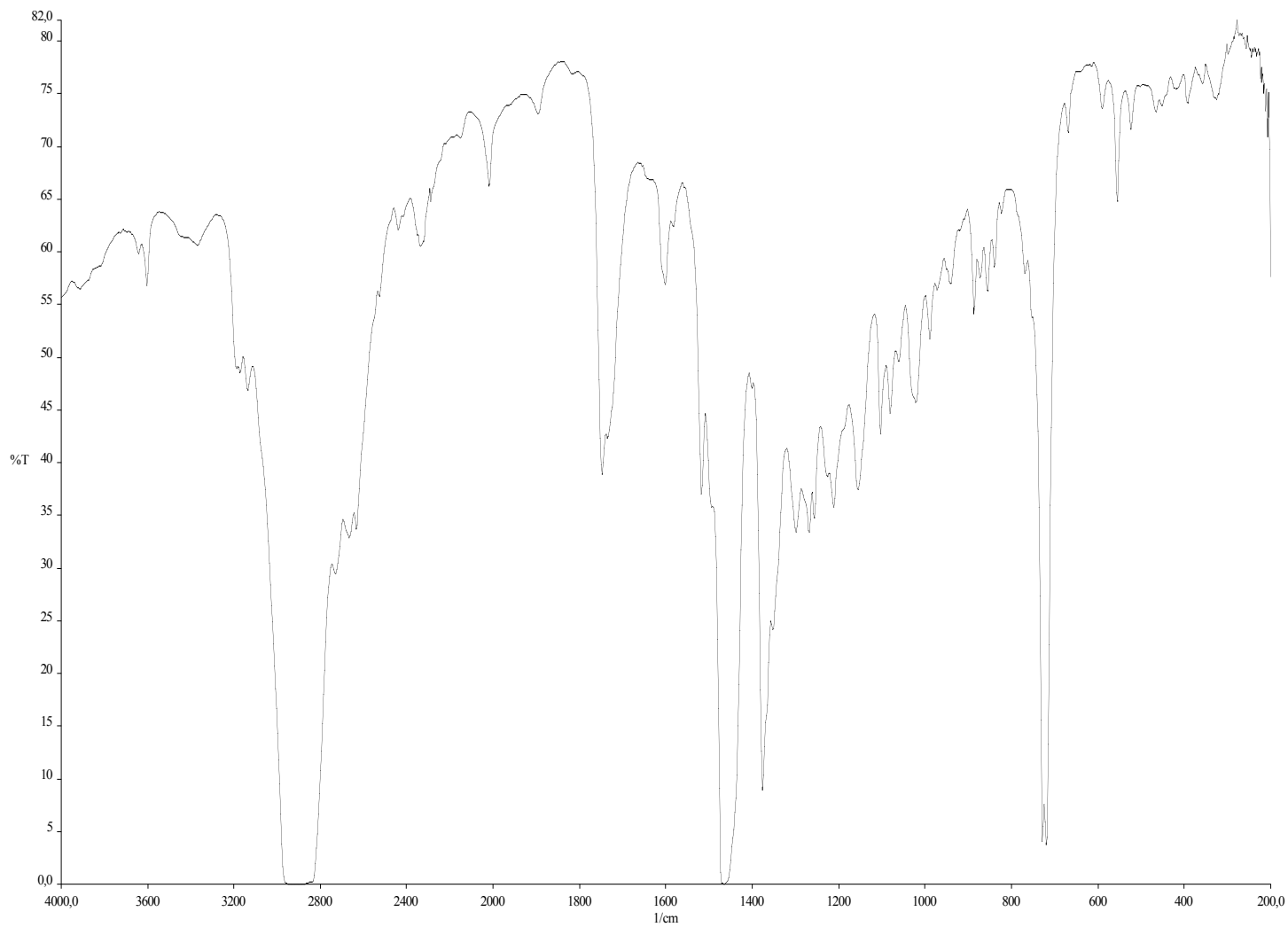
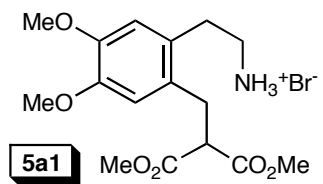
IR spectrum of 4a3 (Nujol, cm^{-1})



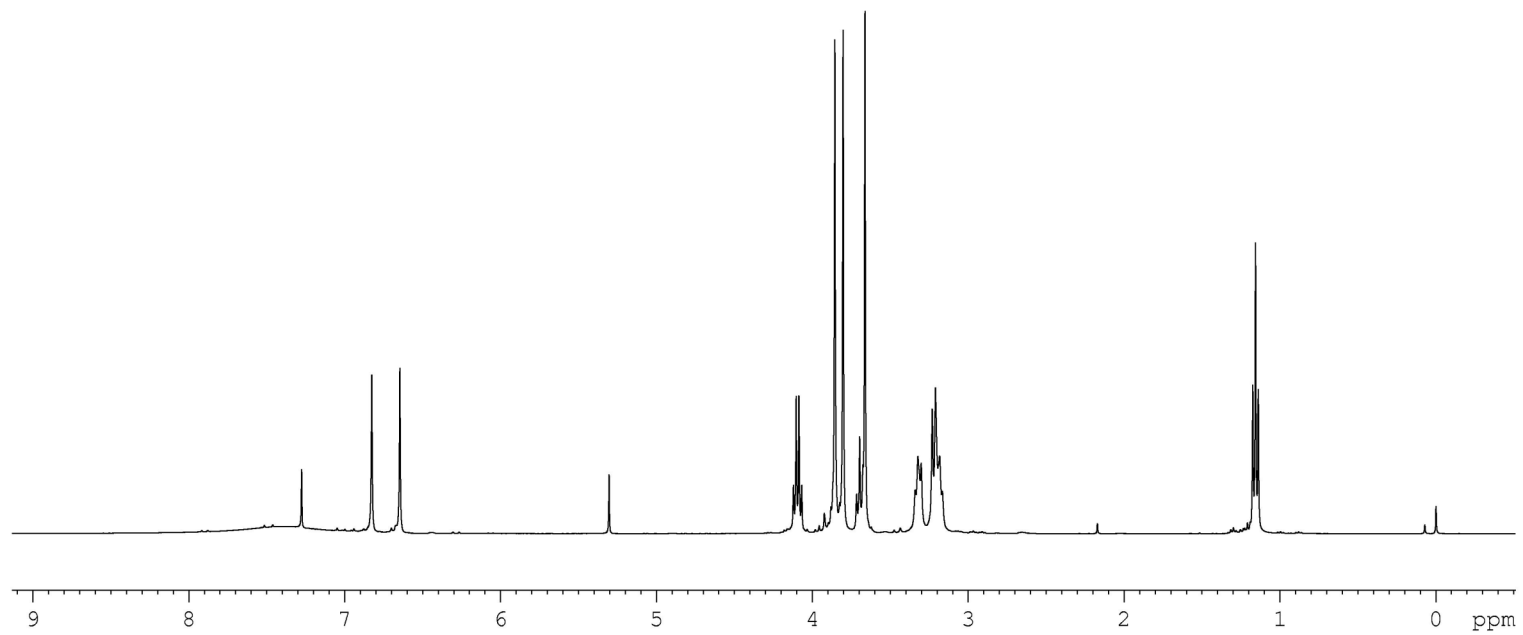
^1H NMR spectrum of 4a3 (CDCl₃ + TMS, 25 °C)



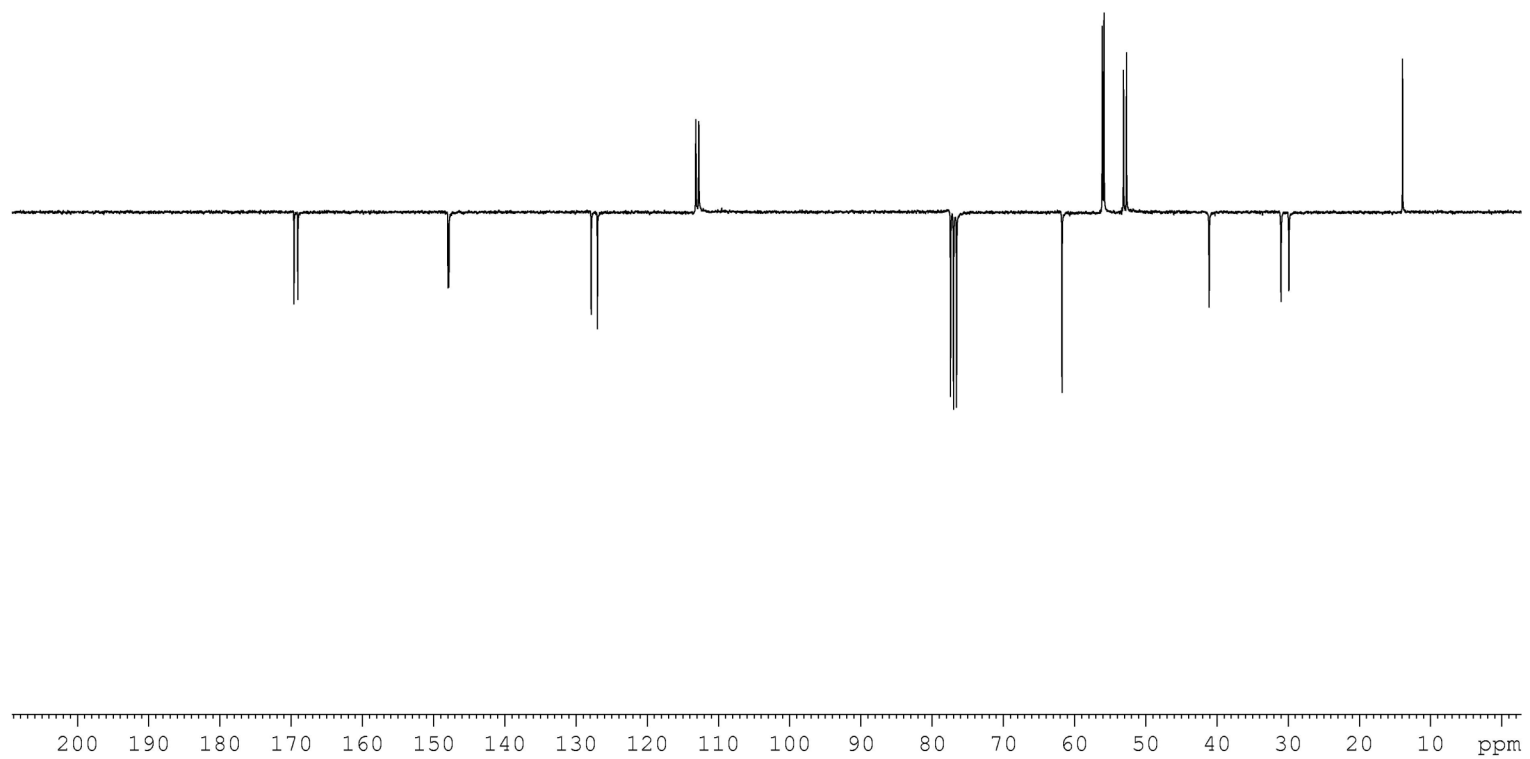
^{13}C APT NMR spectrum of **4a3** ($\text{CDCl}_3 + \text{TMS}$, 25 °C)



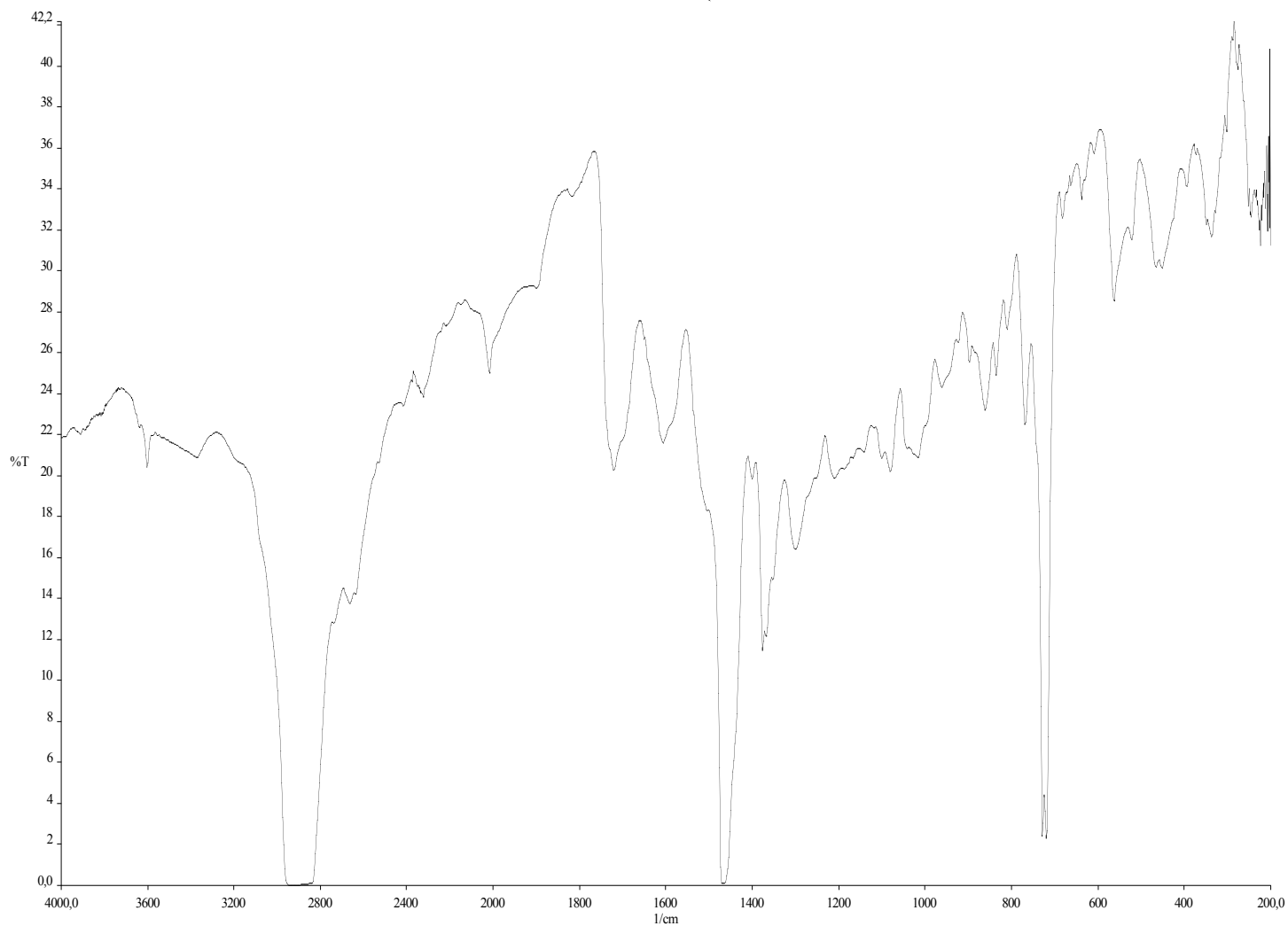
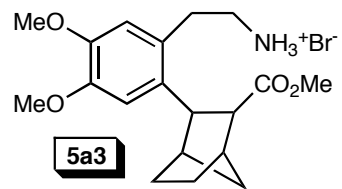
IR spectrum of 5a1 (Nujol, cm⁻¹)



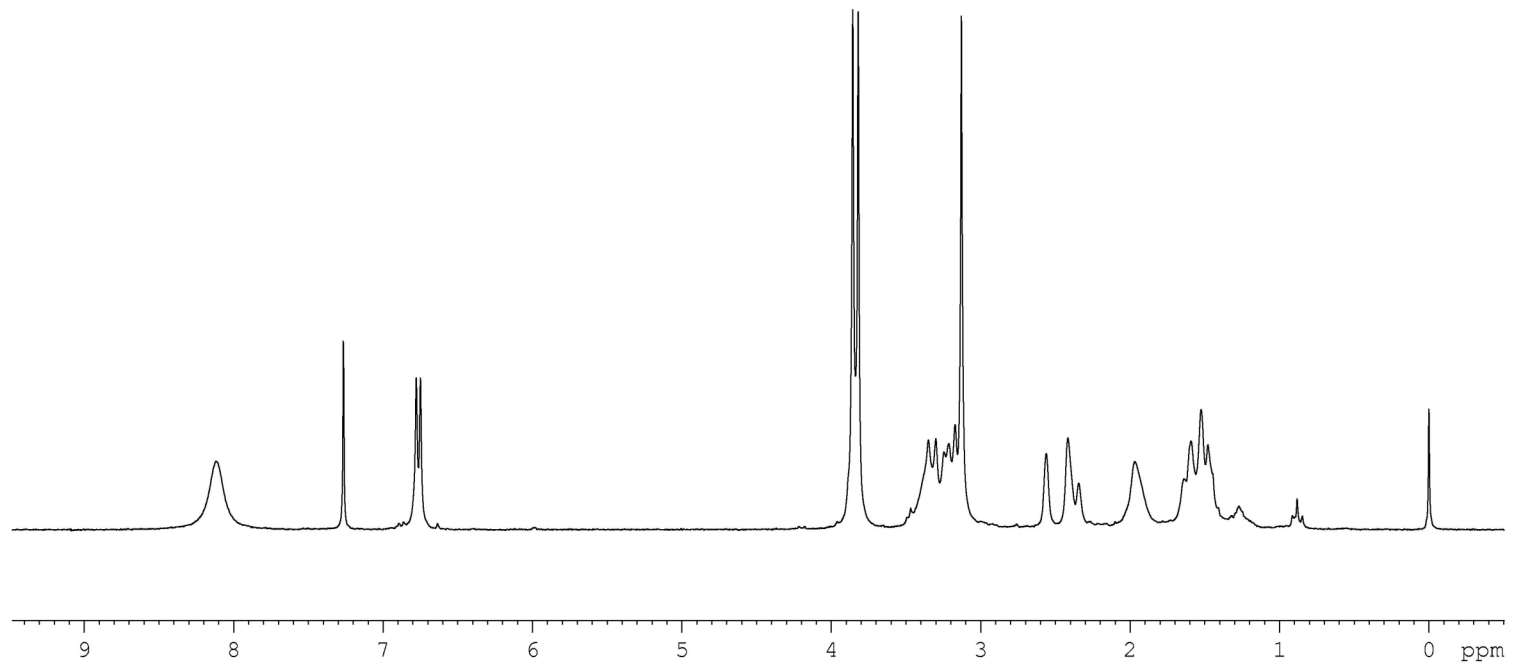
^1H NMR spectrum of 5a1 (CDCl₃ + TMS, 25 °C)



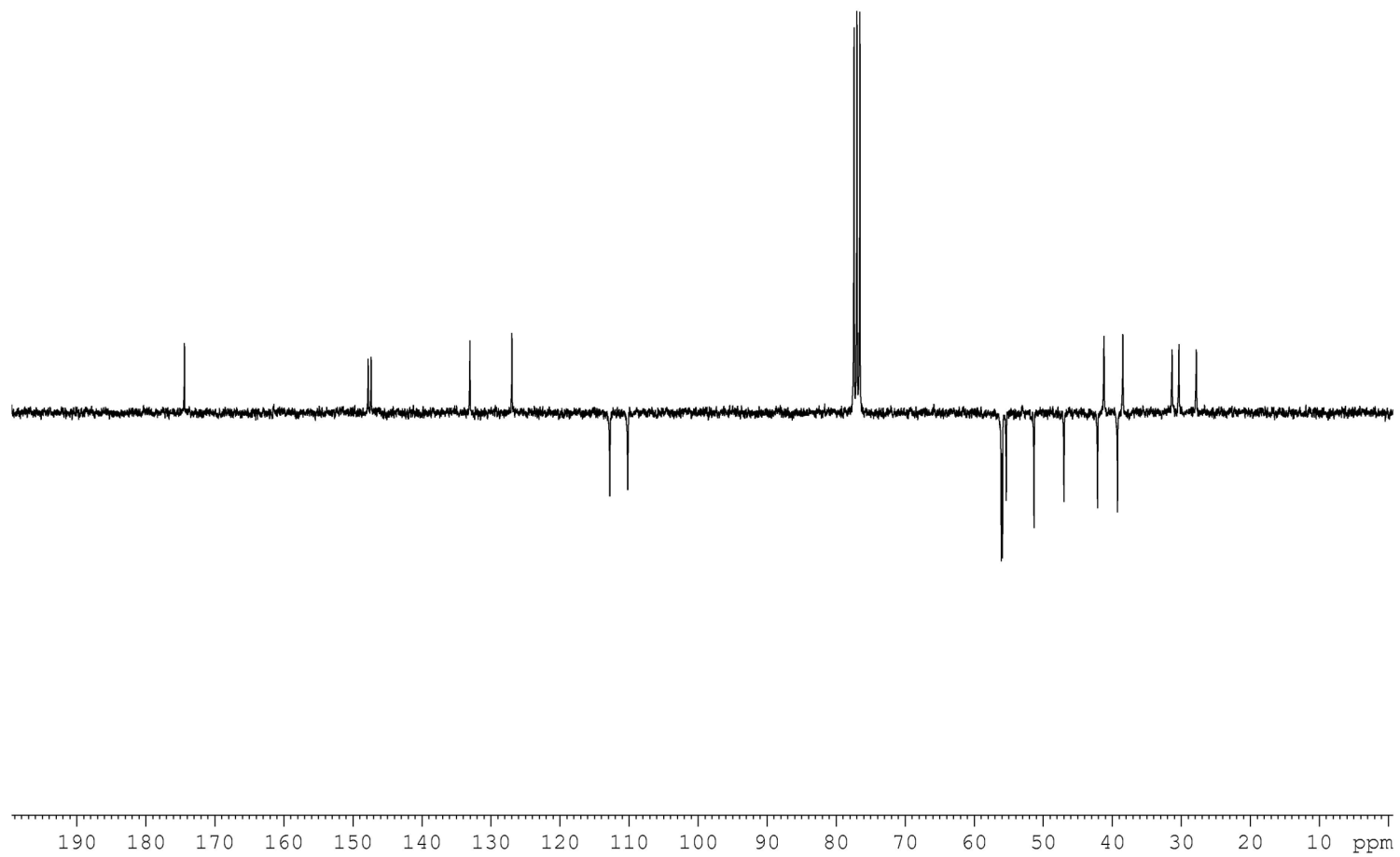
^{13}C APT NMR spectrum of 5a1 ($\text{CDCl}_3 + \text{TMS}$, 25 °C)



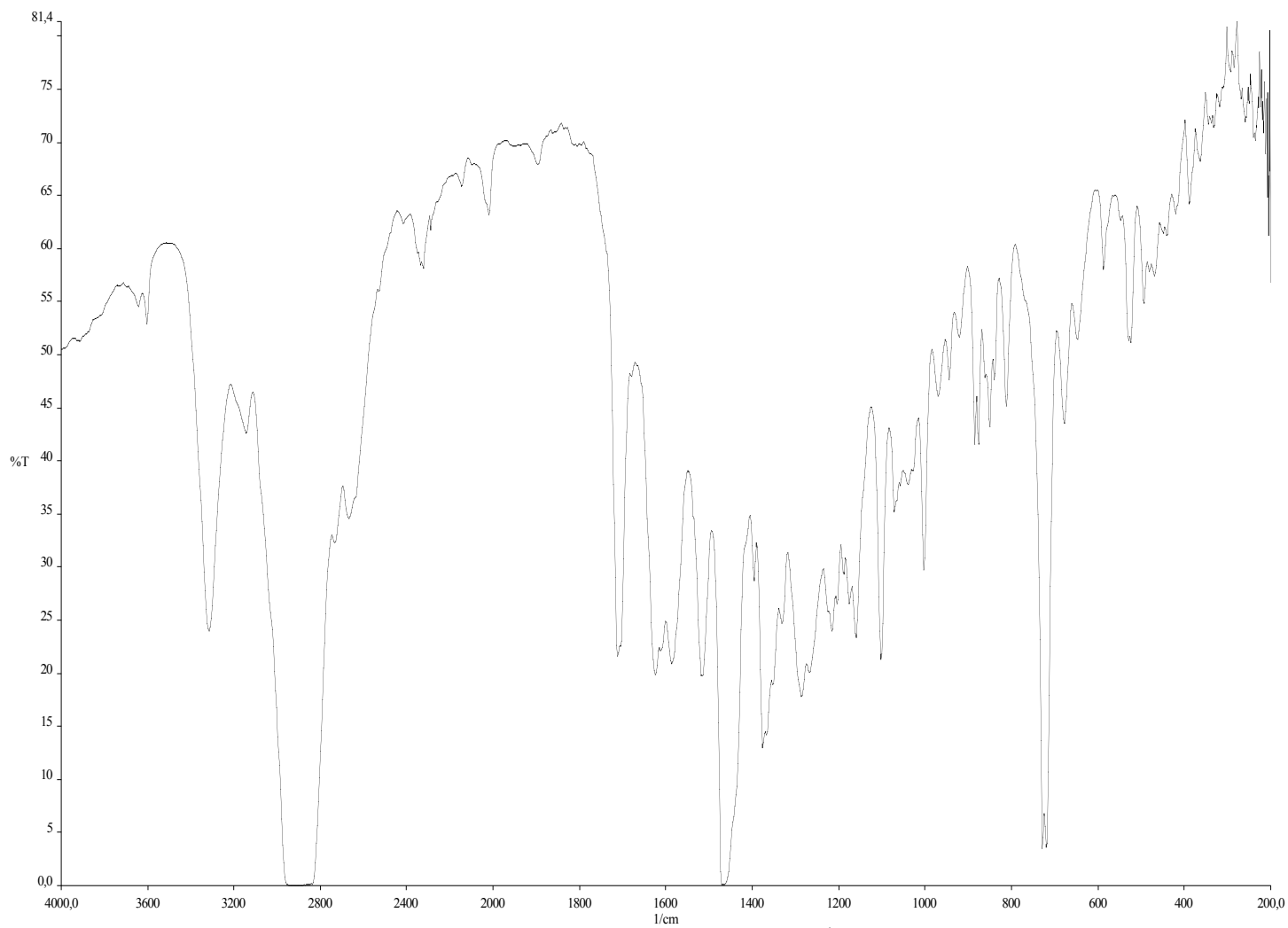
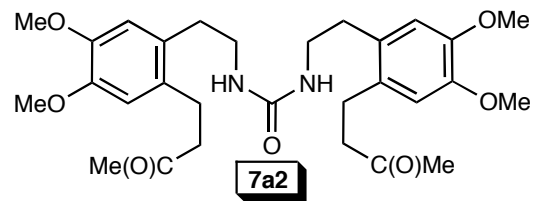
IR spectrum of 5a3 (Nujol, cm⁻¹)



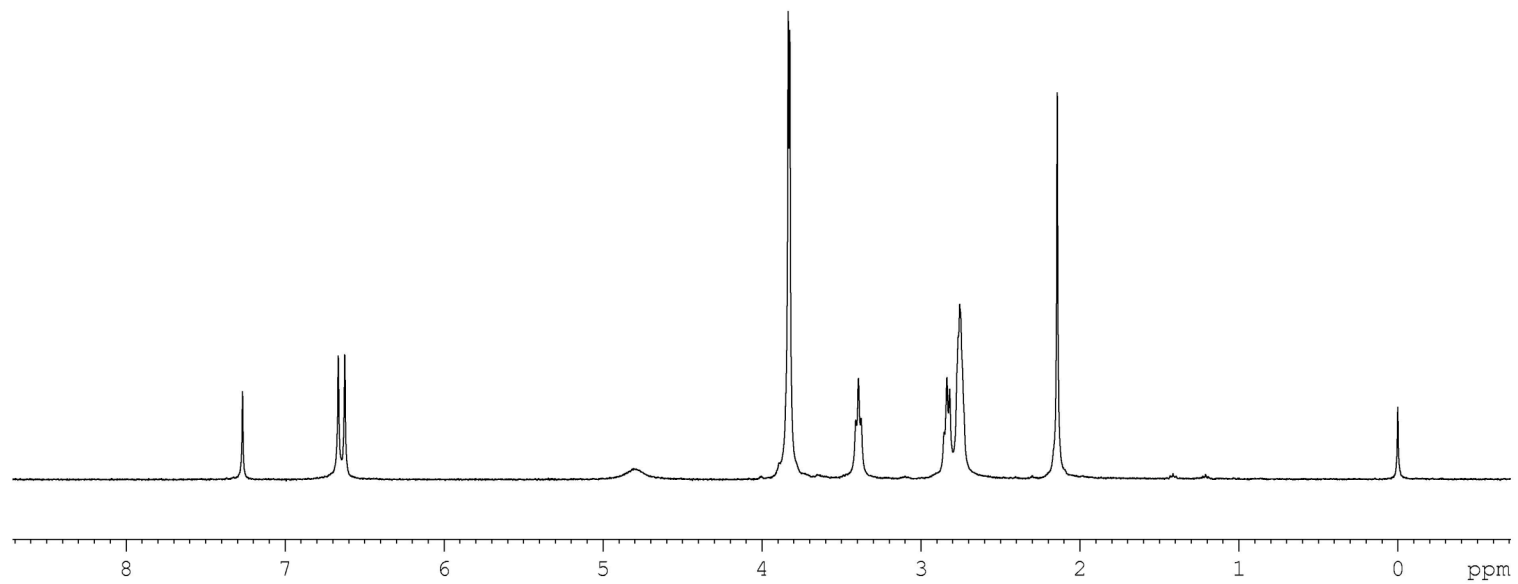
^1H NMR spectrum of 5a3 (CDCl₃ + TMS, 25 °C)



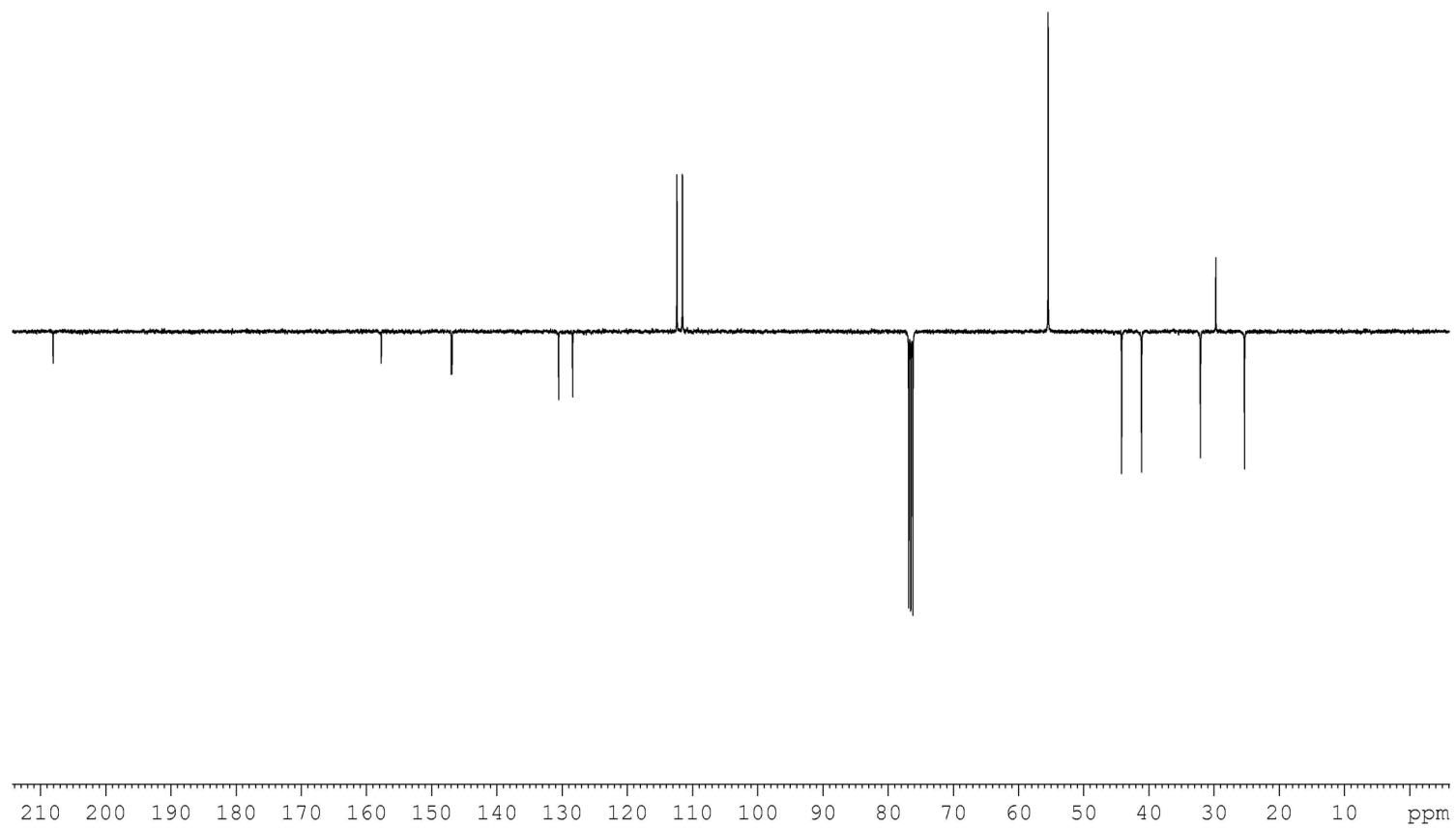
^{13}C APT NMR spectrum of 5a3 ($\text{CDCl}_3 + \text{TMS}$, 25 °C)



IR spectrum of 7a2 (Nujol, cm⁻¹)



^1H NMR spectrum of 7a2 (CDCl₃ + TMS, 25 °C)



^{13}C APT NMR spectrum of **7a2** ($\text{CDCl}_3 + \text{TMS}$, 25 °C)