

Supplementary Material

An alternative stereoselective total synthesis of Verbalactone

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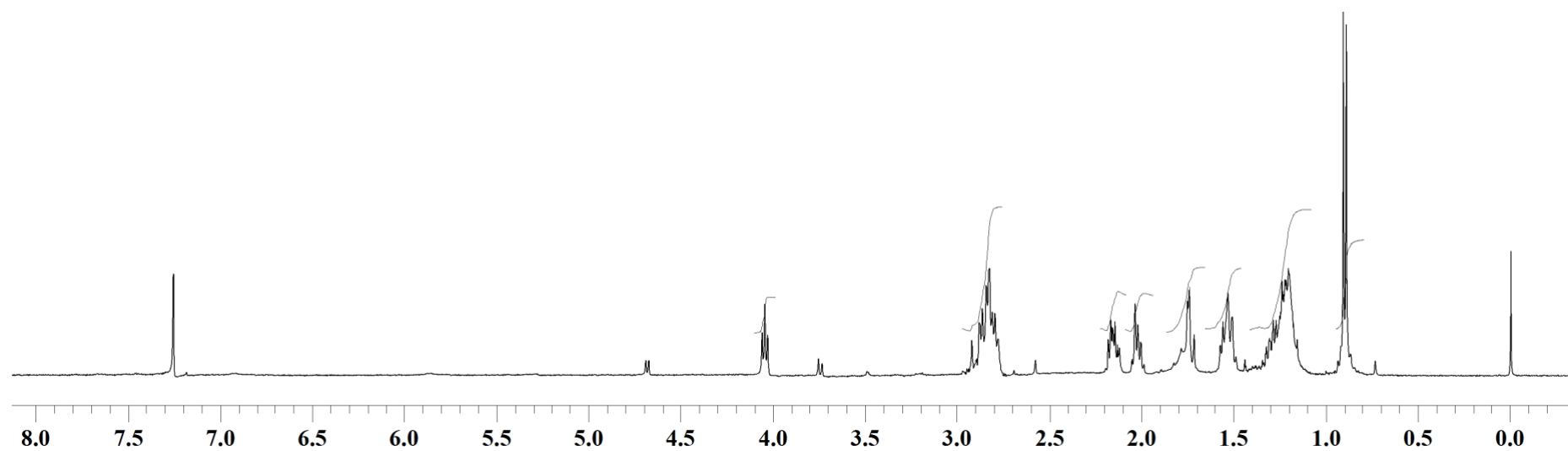
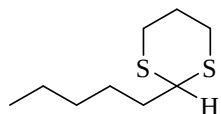
³Organic Chemistry Department, Telangana university, Dichpally, Nizamabad, Telangana, India.

⁴Organic and Biomolecular Chemistry Division, CSIR-Indian Institute of Chemical Technology, Hyderabad, 500107, India.

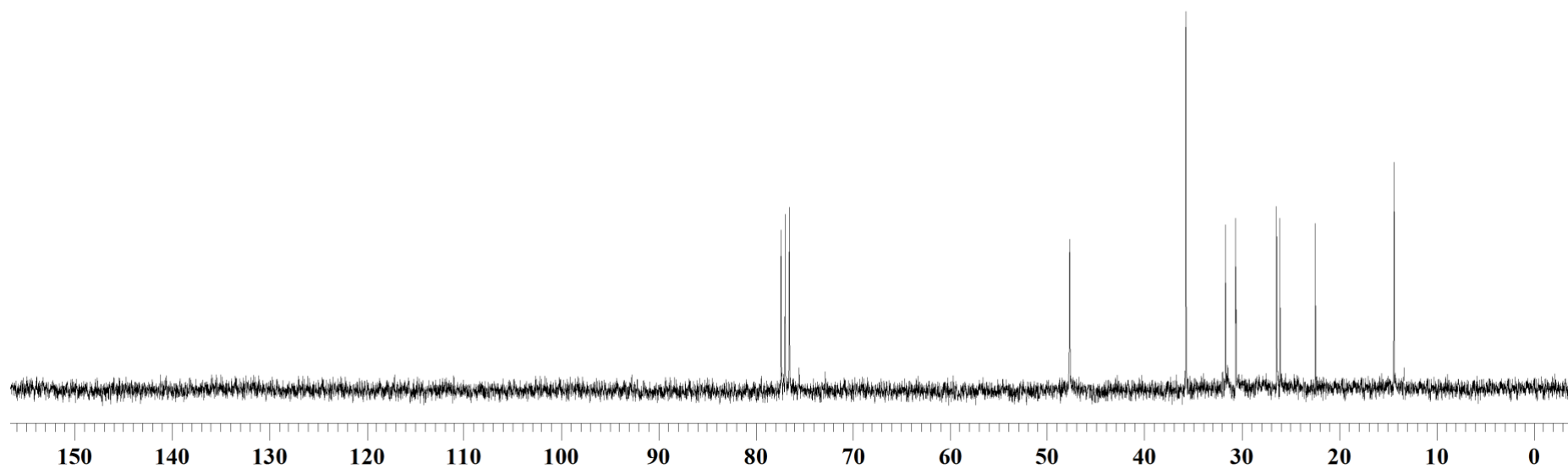
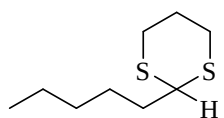
(Email: rk1org@yahoo.com)

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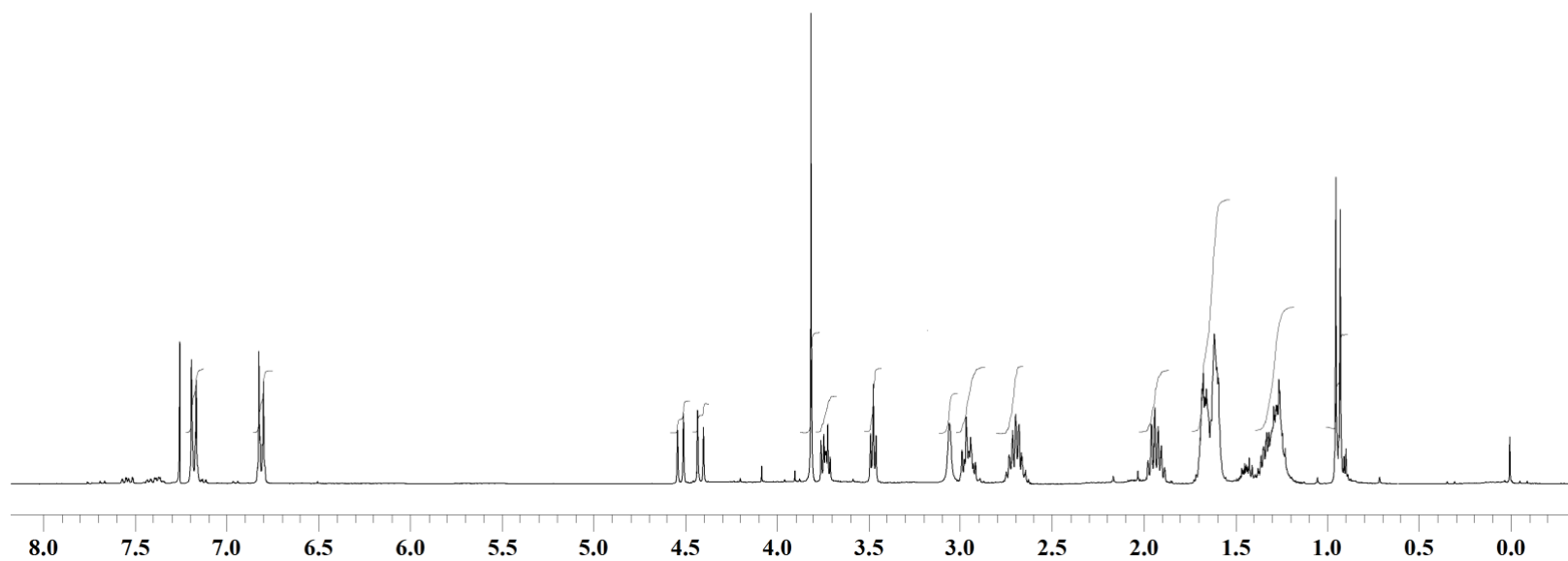
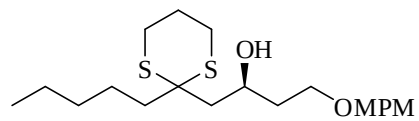
1. Copies of ¹ H and ¹³ C NMR spectra of all new compounds	S2
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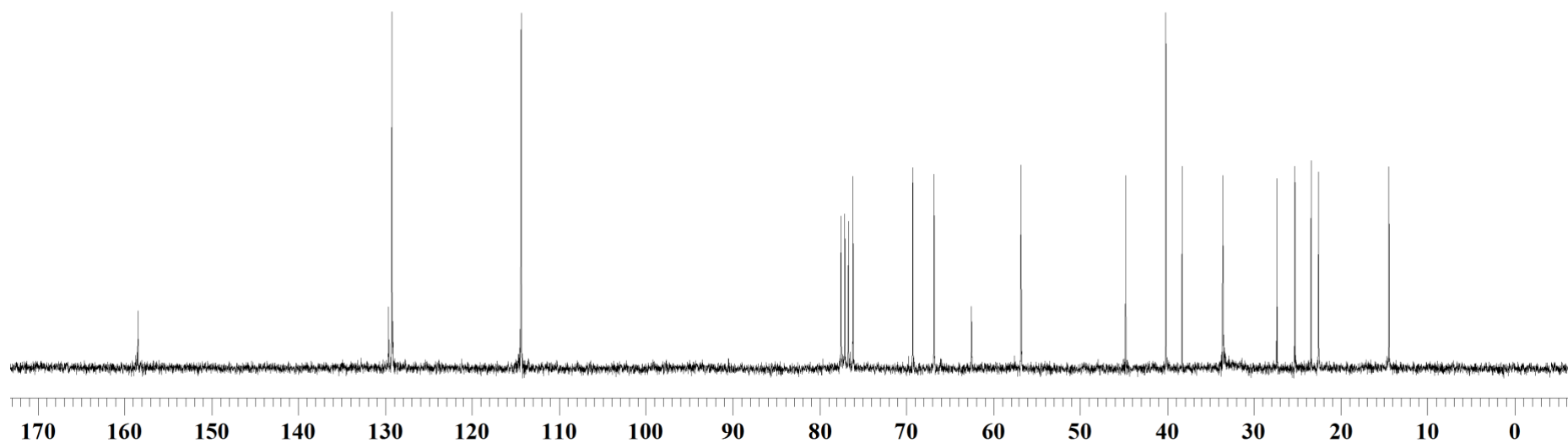
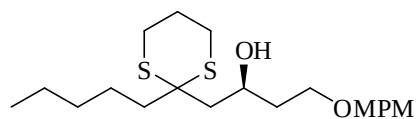
Spectrum 1: ^1H NMR Spectrum of **3** (300 MHz, CDCl_3).



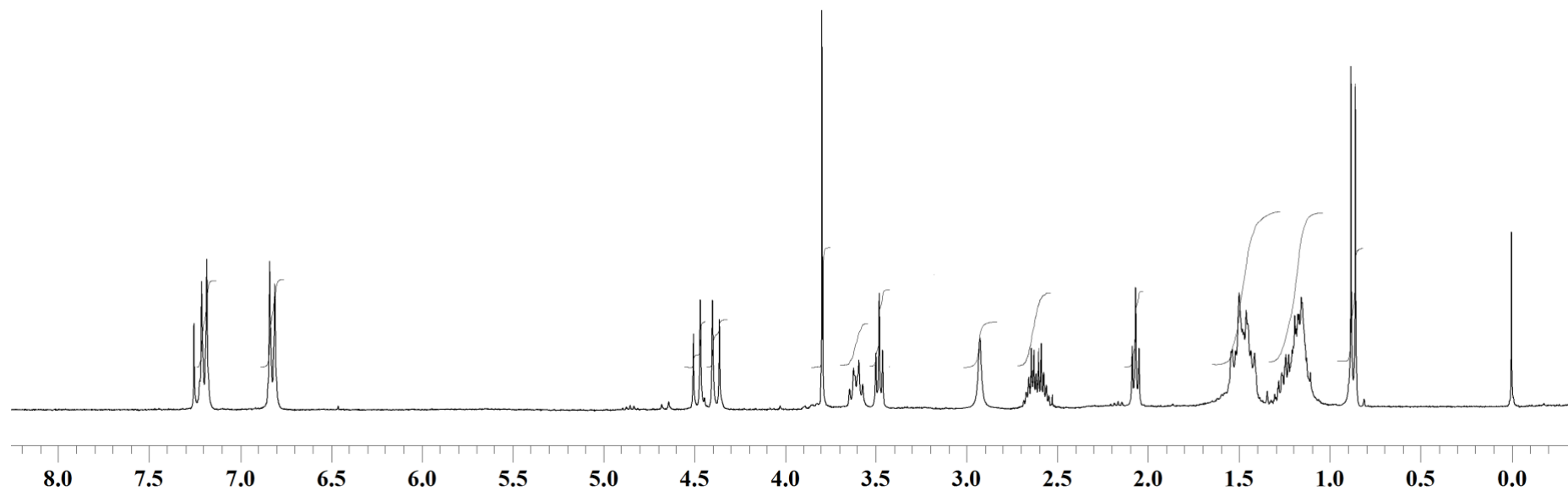
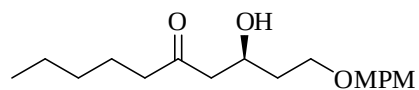
Spectrum 2: ^{13}C NMR Spectrum of **3** (100 MHz, CDCl_3).



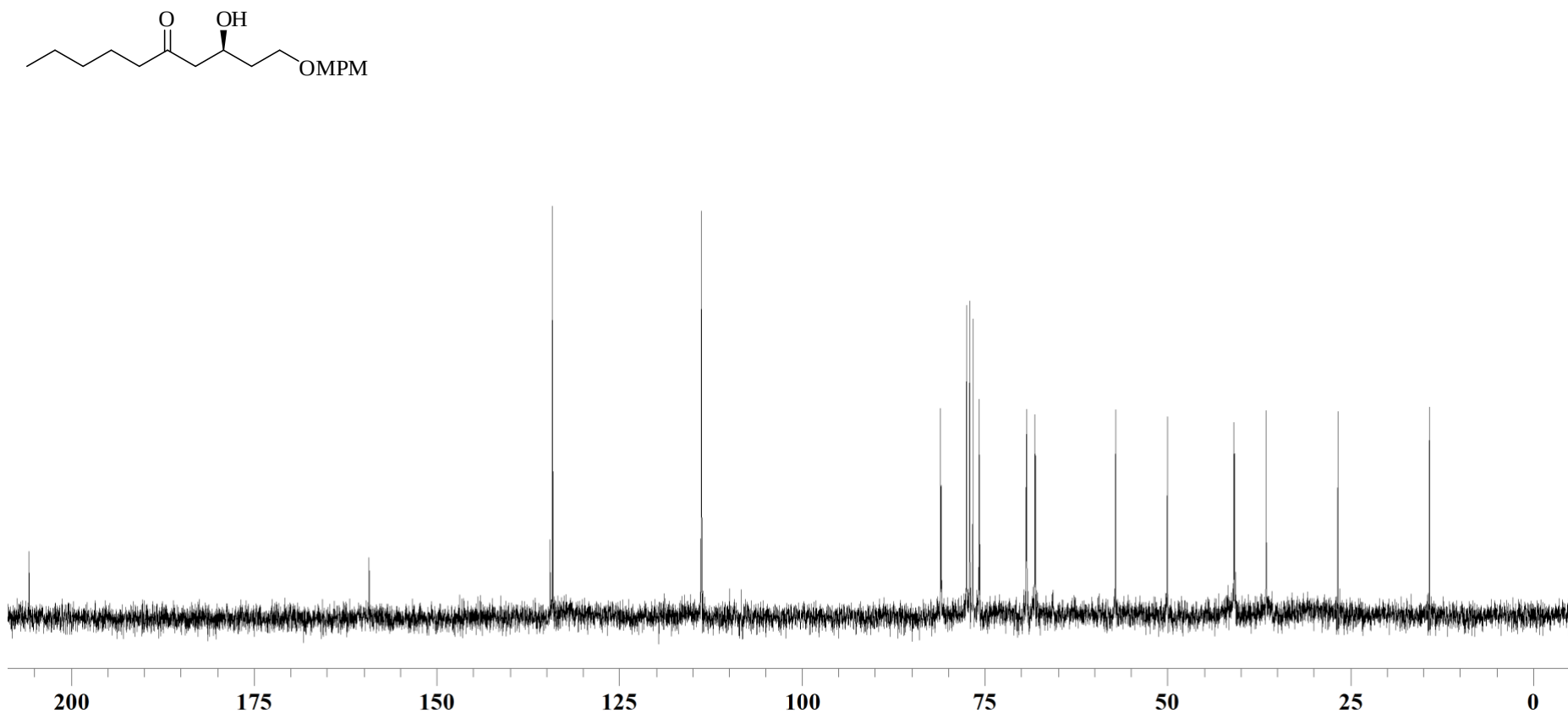
Spectrum 3: ¹H NMR Spectrum of 6 (300 MHz, CDCl₃).



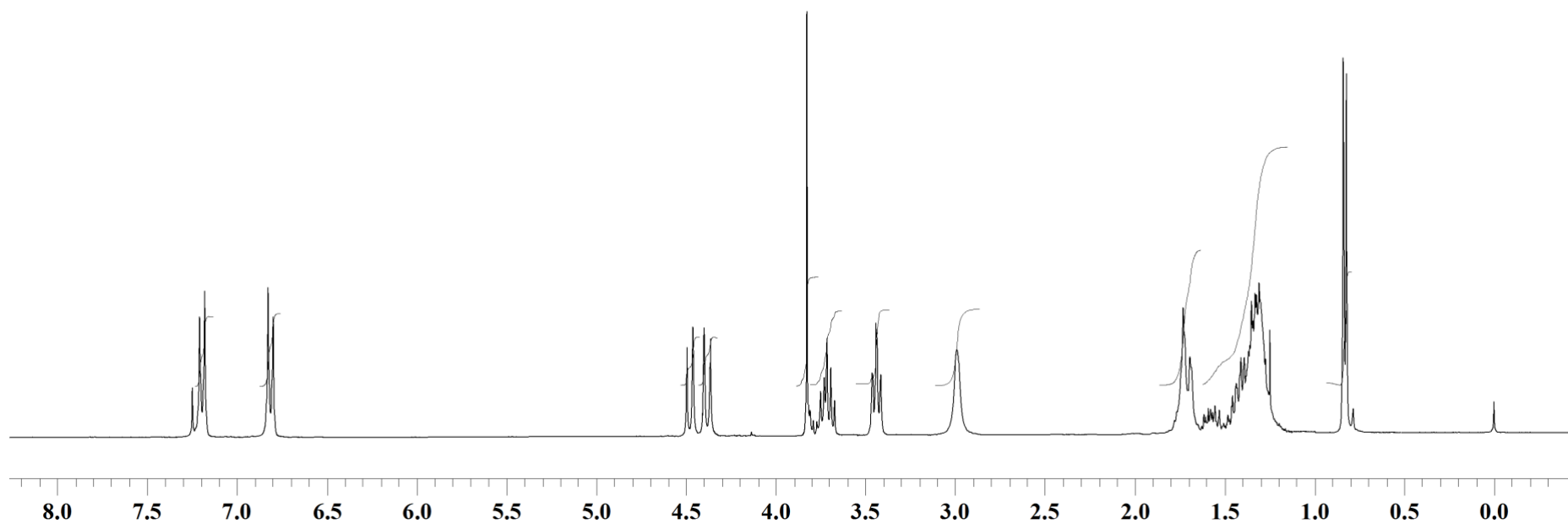
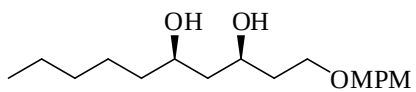
Spectrum 4: ^{13}C NMR Spectrum of **6** (75 MHz, CDCl_3).



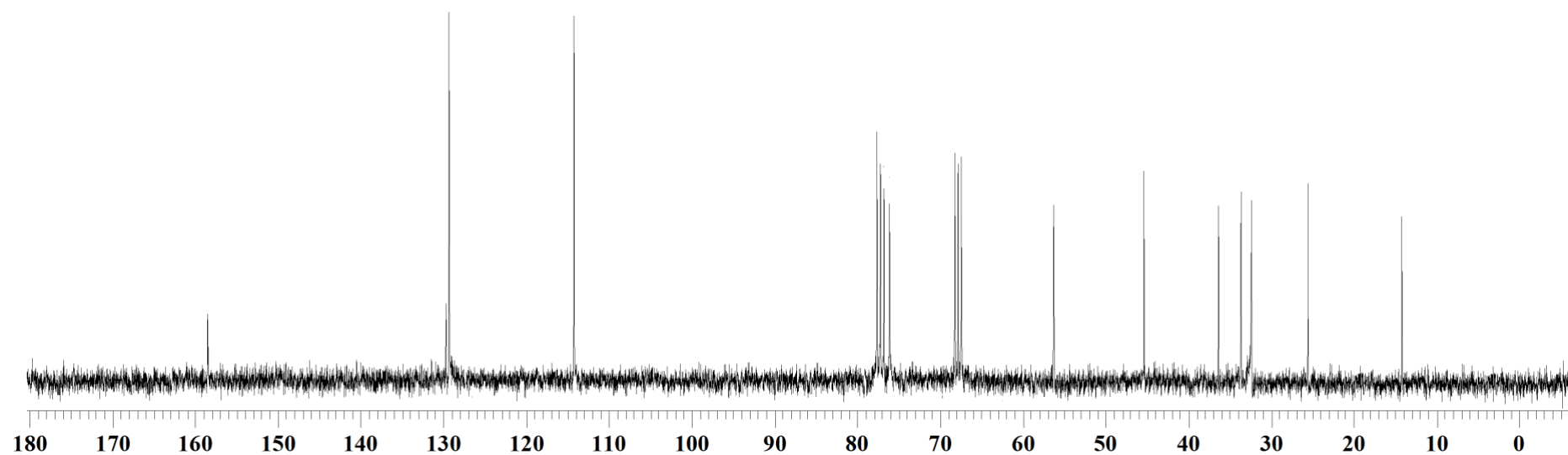
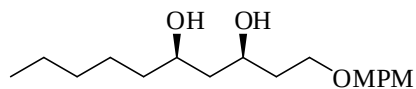
Spectrum 5: ^1H NMR Spectrum of 7 (300 MHz, CDCl_3).



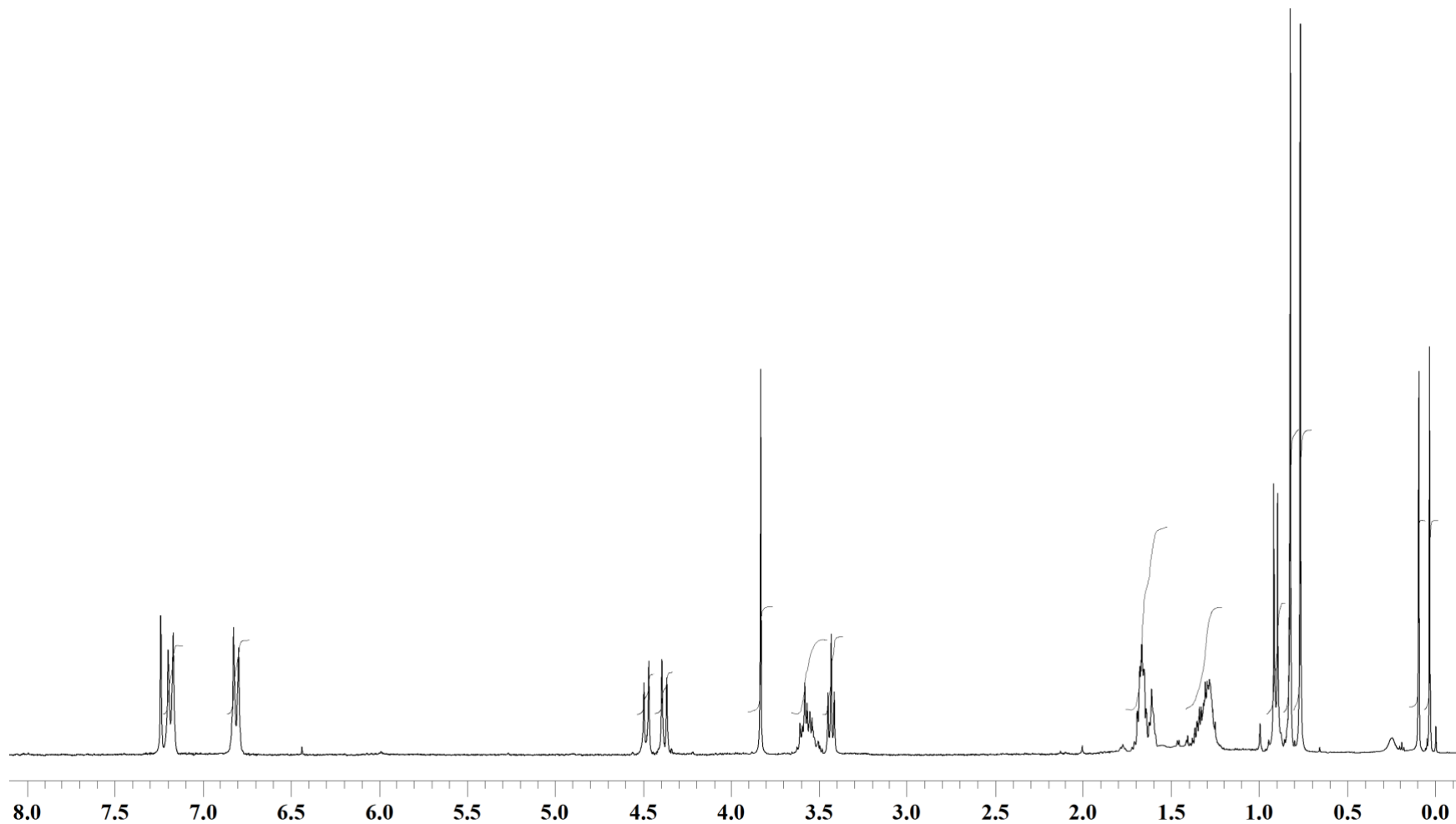
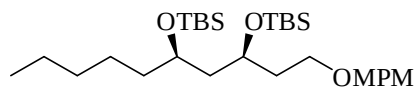
Spectrum 6: ^{13}C NMR Spectrum of 7 (75 MHz, CDCl_3).



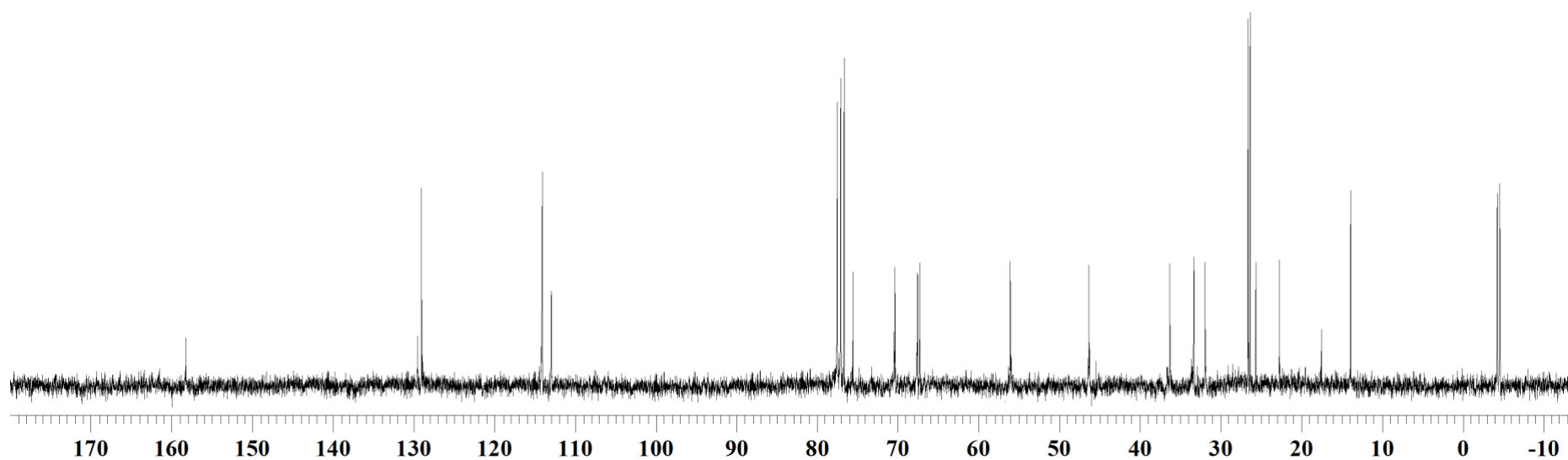
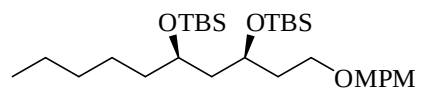
Spectrum 7: ^1H NMR Spectrum of **8** (300 MHz, CDCl_3).



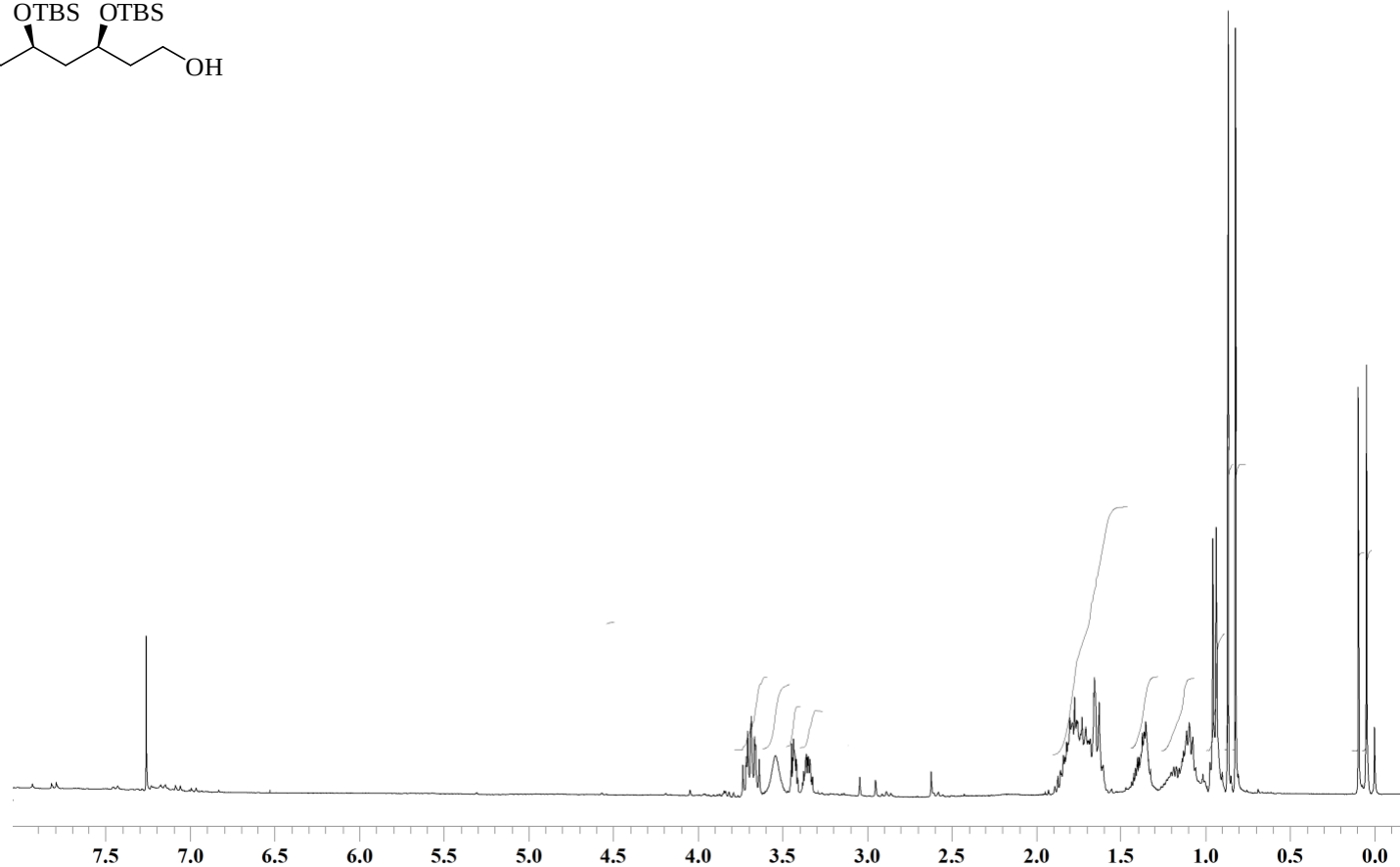
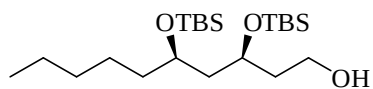
Spectrum 8: ^{13}C NMR Spectrum of **8** (75 MHz, CDCl_3).



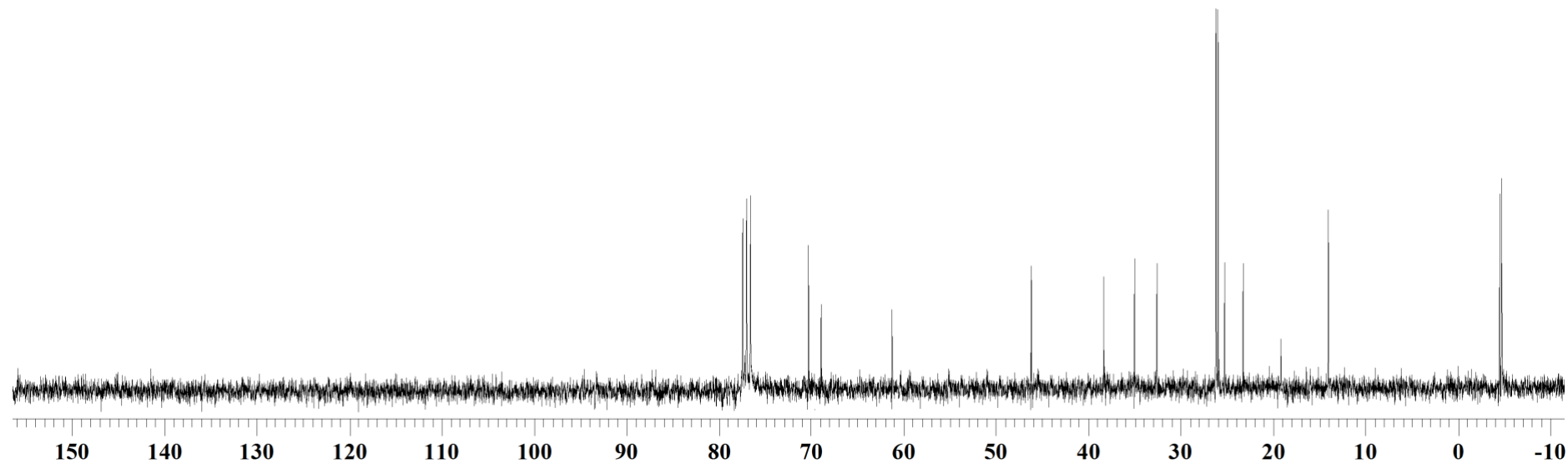
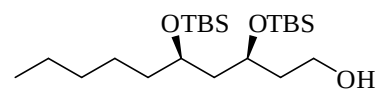
Spectrum 9: ^1H NMR Spectrum of **9** (300 MHz, CDCl_3).



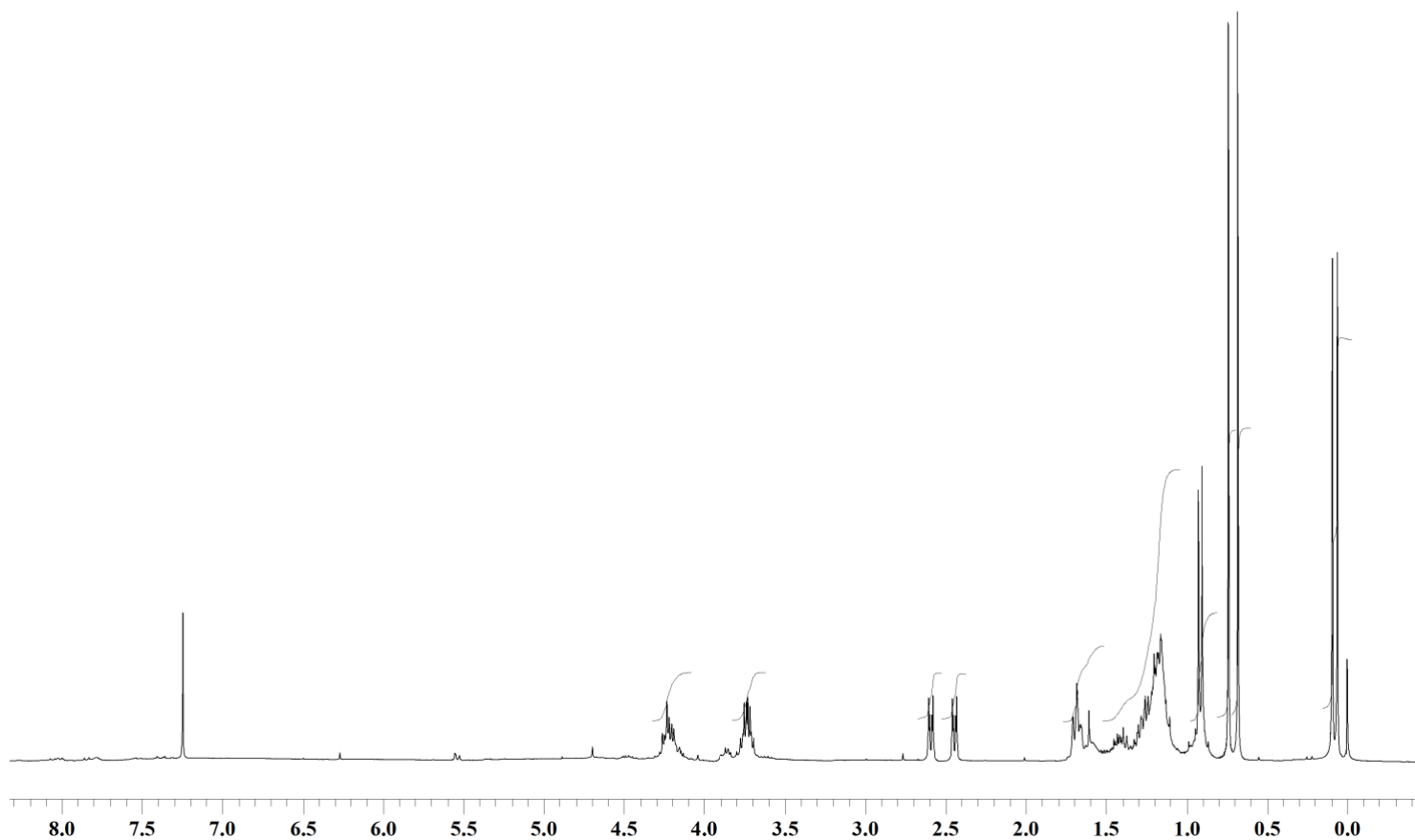
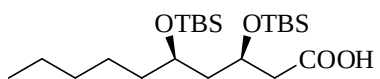
Spectrum 10: ^{13}C NMR Spectrum of **9** (75 MHz, CDCl_3).



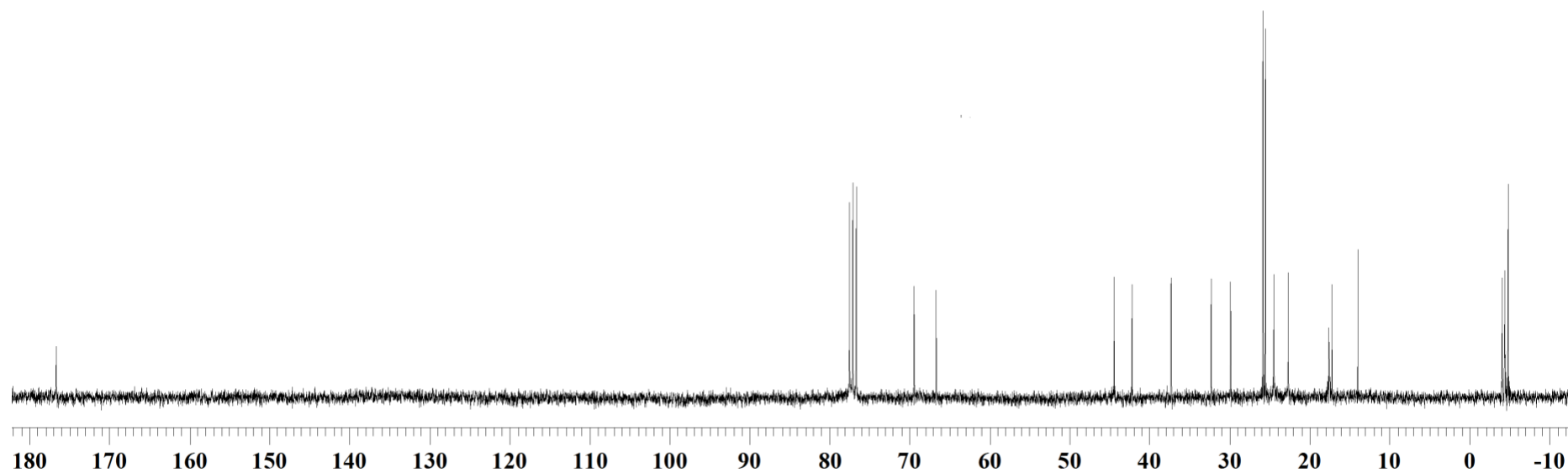
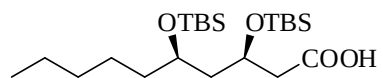
Spectrum 11: ^1H NMR Spectrum of **10** (300 MHz, CDCl_3).



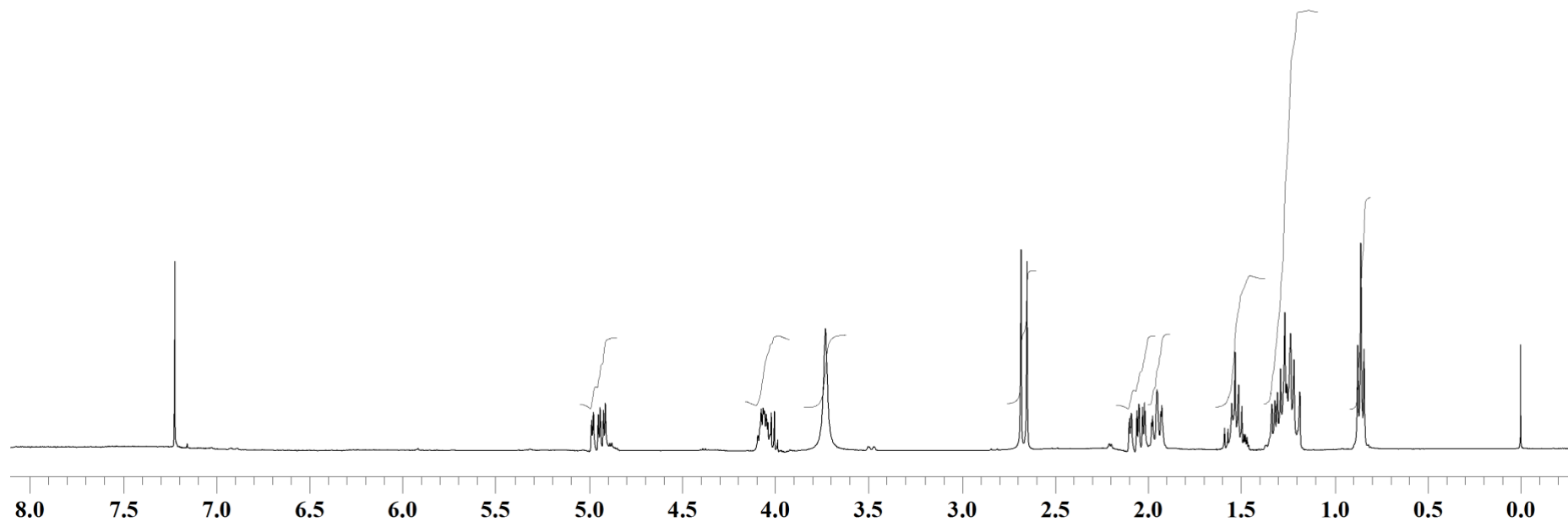
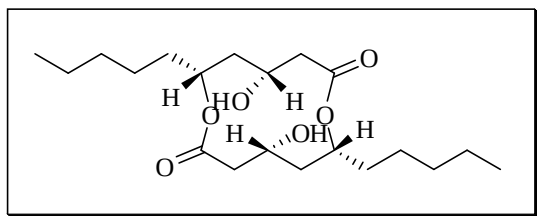
Spectrum 12: ^{13}C NMR Spectrum of **10** (75 MHz, CDCl_3).



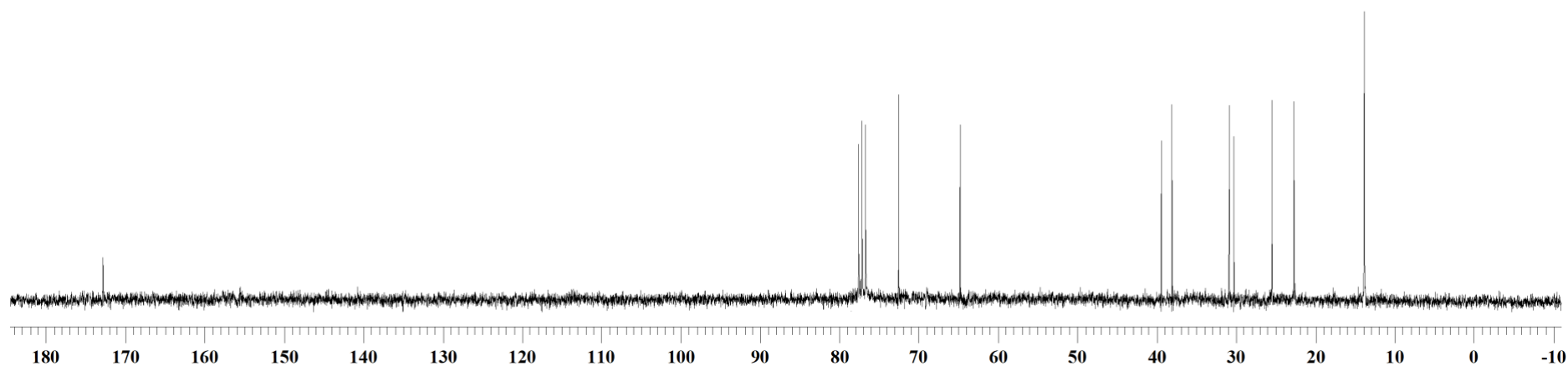
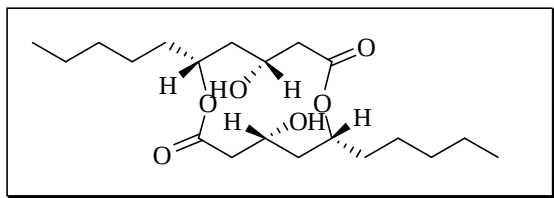
Spectrum 13: ^1H NMR Spectrum of **11** (300 MHz, CDCl_3).



Spectrum 14: ^{13}C NMR Spectrum of **11** (75 MHz, CDCl_3).



Spectrum 15: ^1H NMR Spectrum of **1** (300 MHz, CDCl_3).



Spectrum 16: ^{13}C NMR Spectrum of **1** (75 MHz, CDCl_3).