

Synthesis of monoglycosides, bisglycosides and open-chain ketoacetals from sugar derived exocyclic enol ethers

Soumendra Nath Das,¹ Praveen Krishna K² and Sukhendu Bikas Mandal*,¹

¹Chemistry Division, CSIR-Indian Institute of Chemical Biology, 4, Raja S. C. Mullick Road, Jadavpur, Kolkata 700 032, India

²National Institute of Pharmaceutical Education and Research, 4, Raja S. C. Mullick Road, Jadavpur, Kolkata 700 032, India

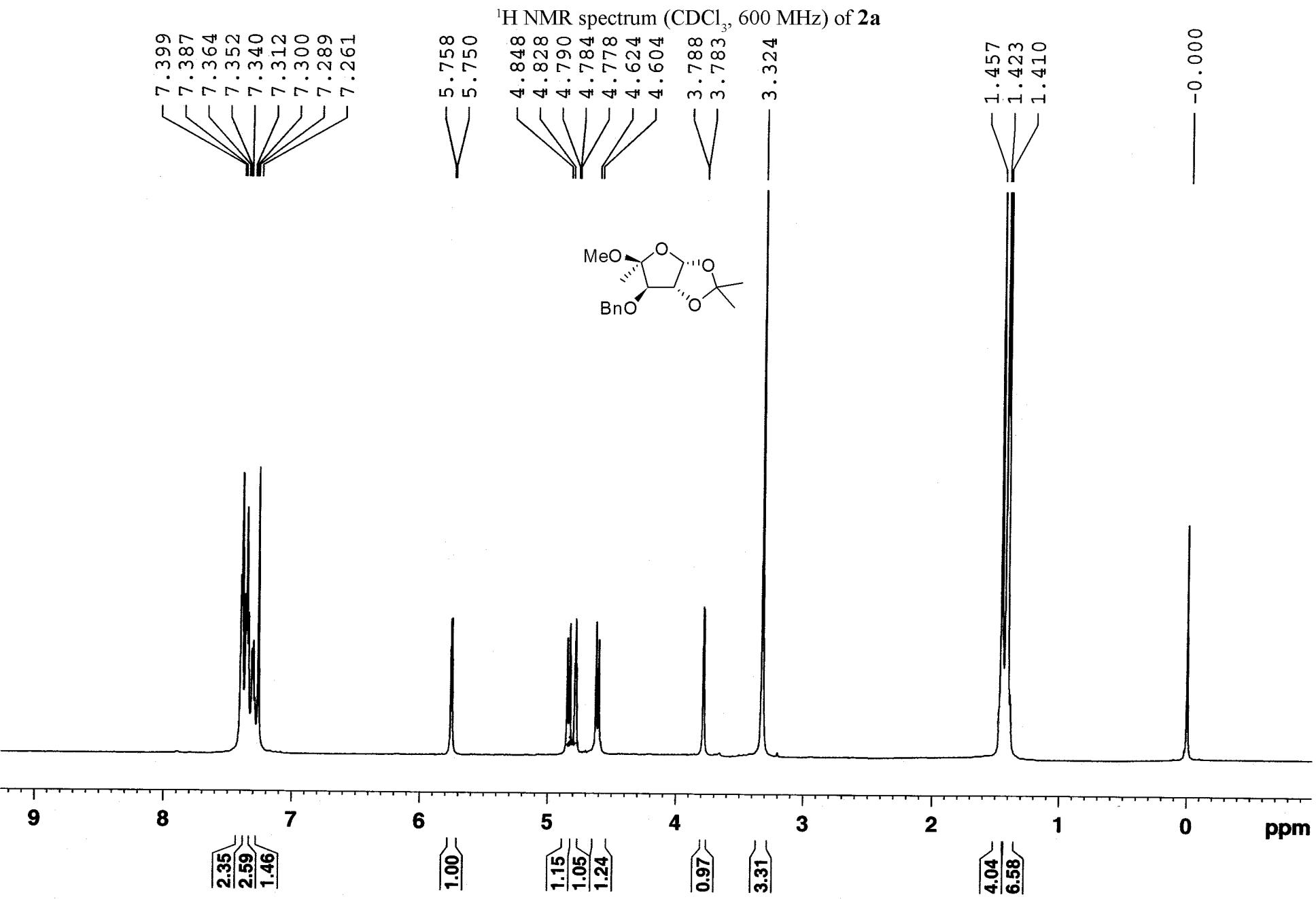
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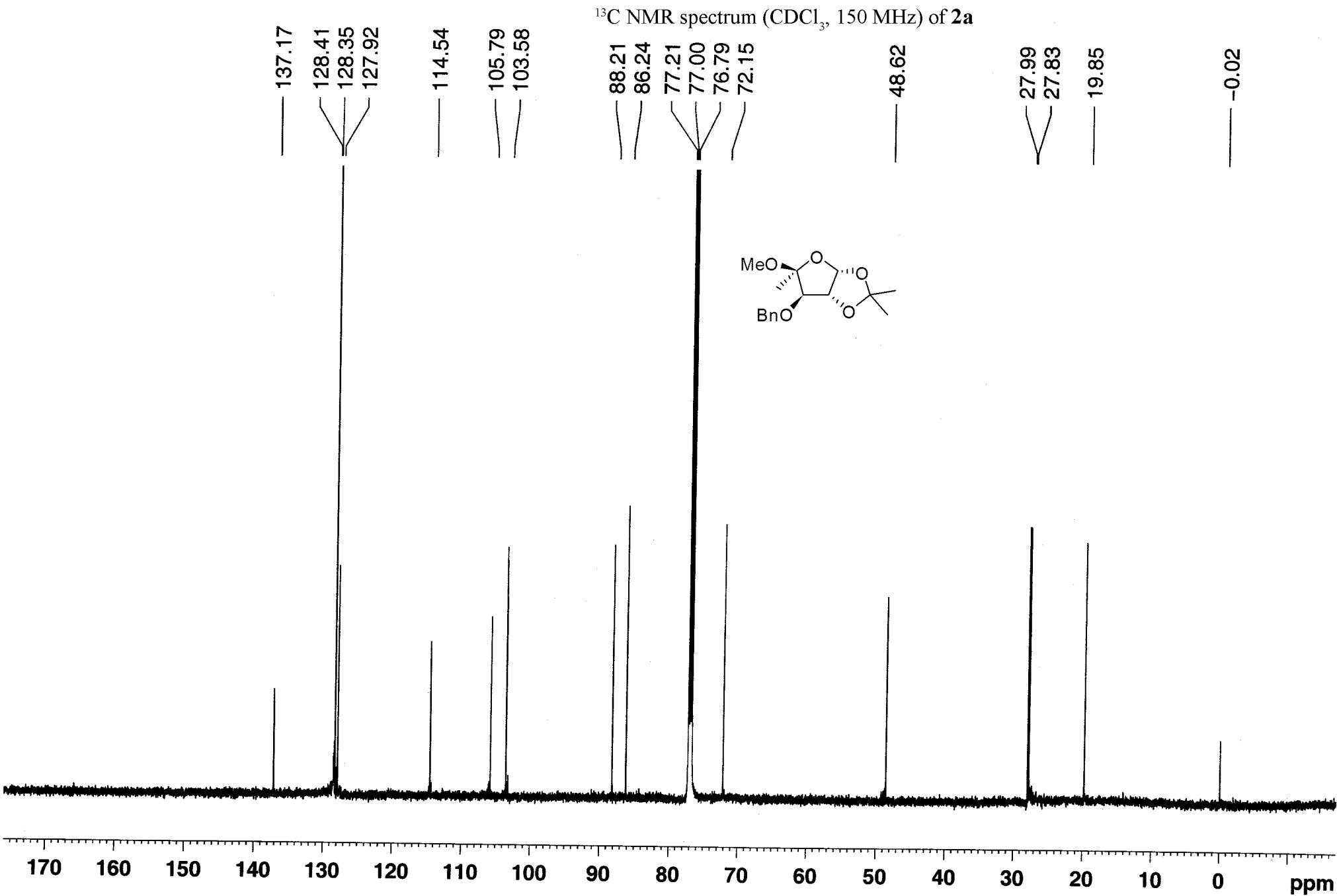
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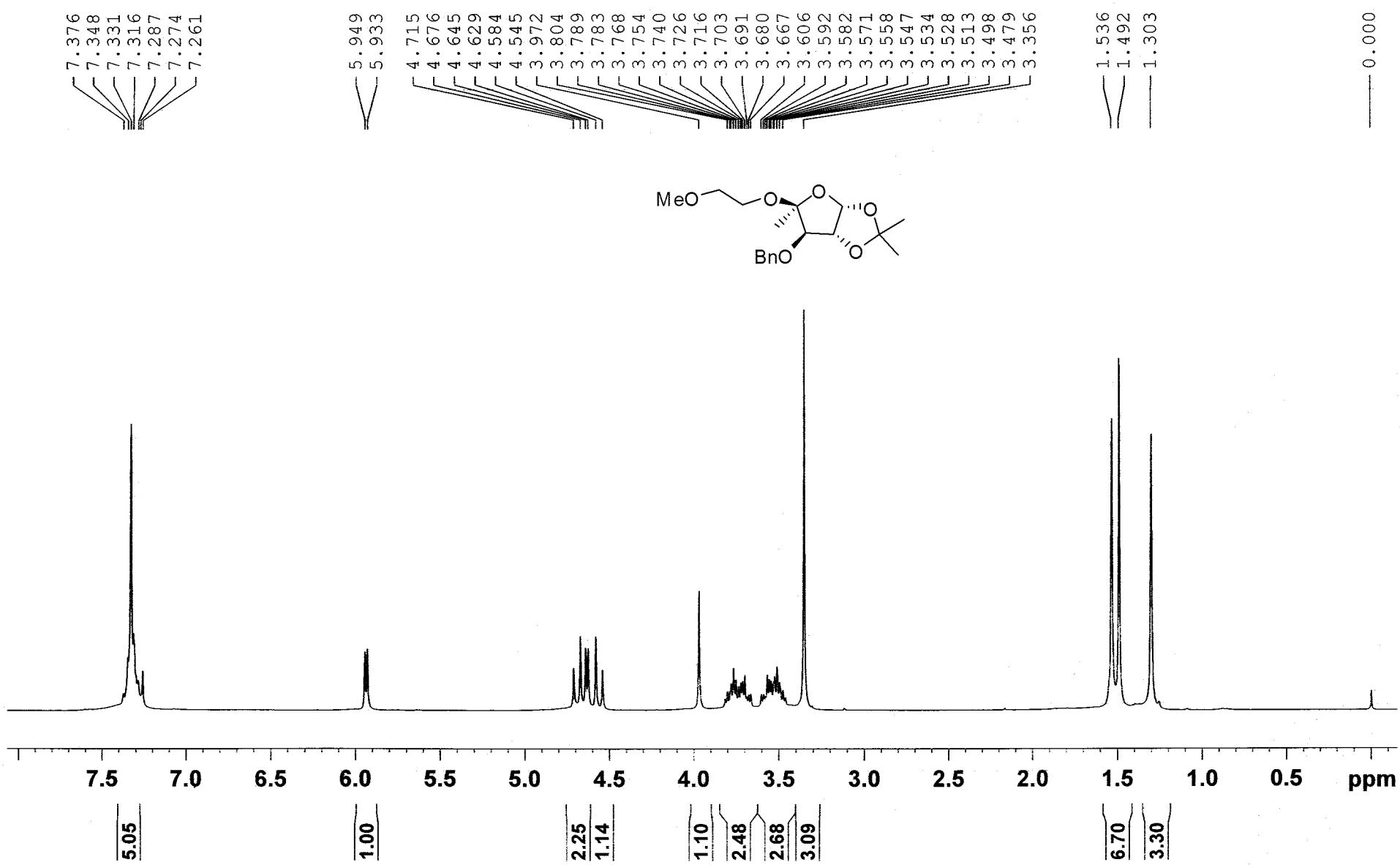
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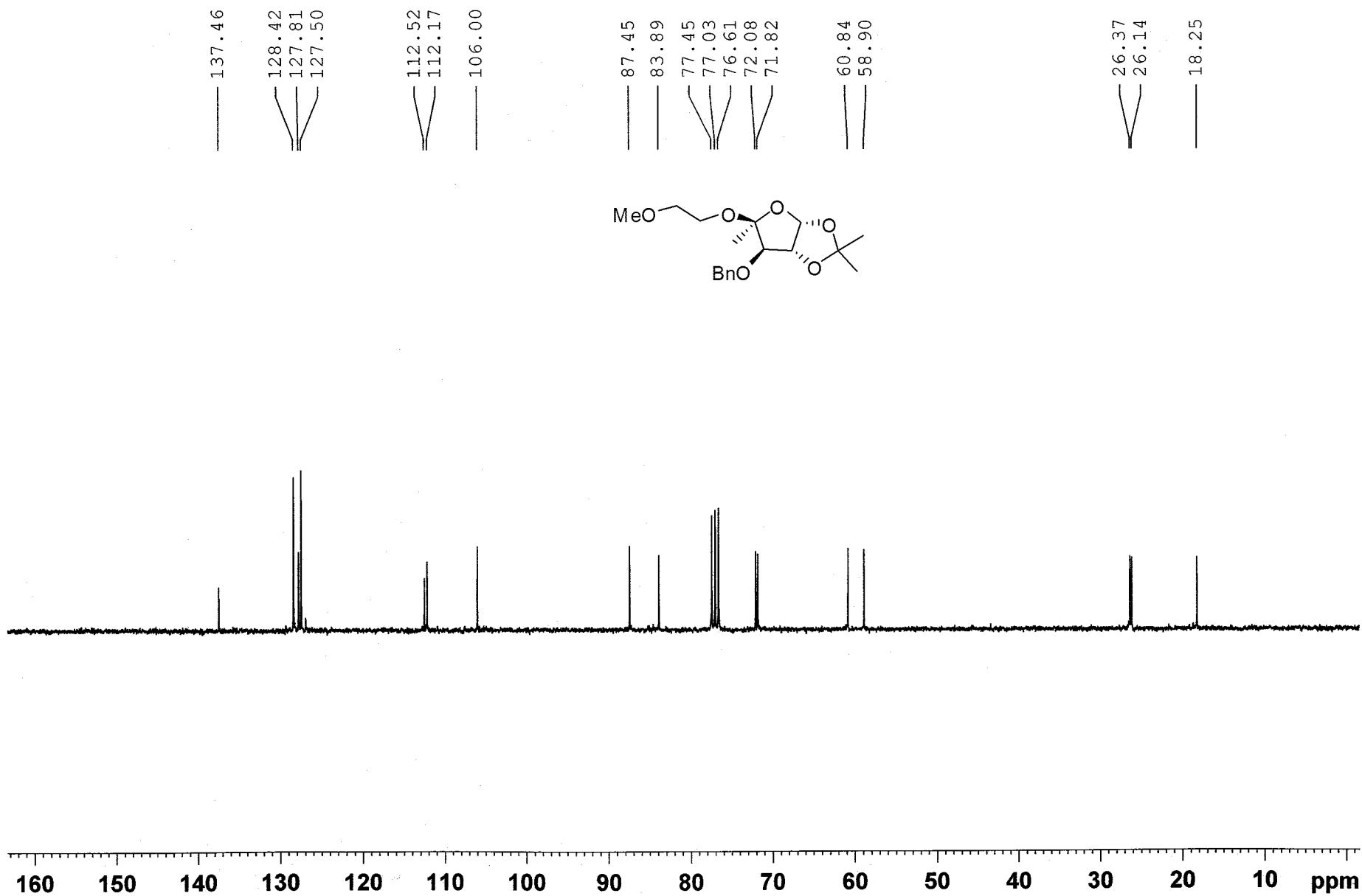




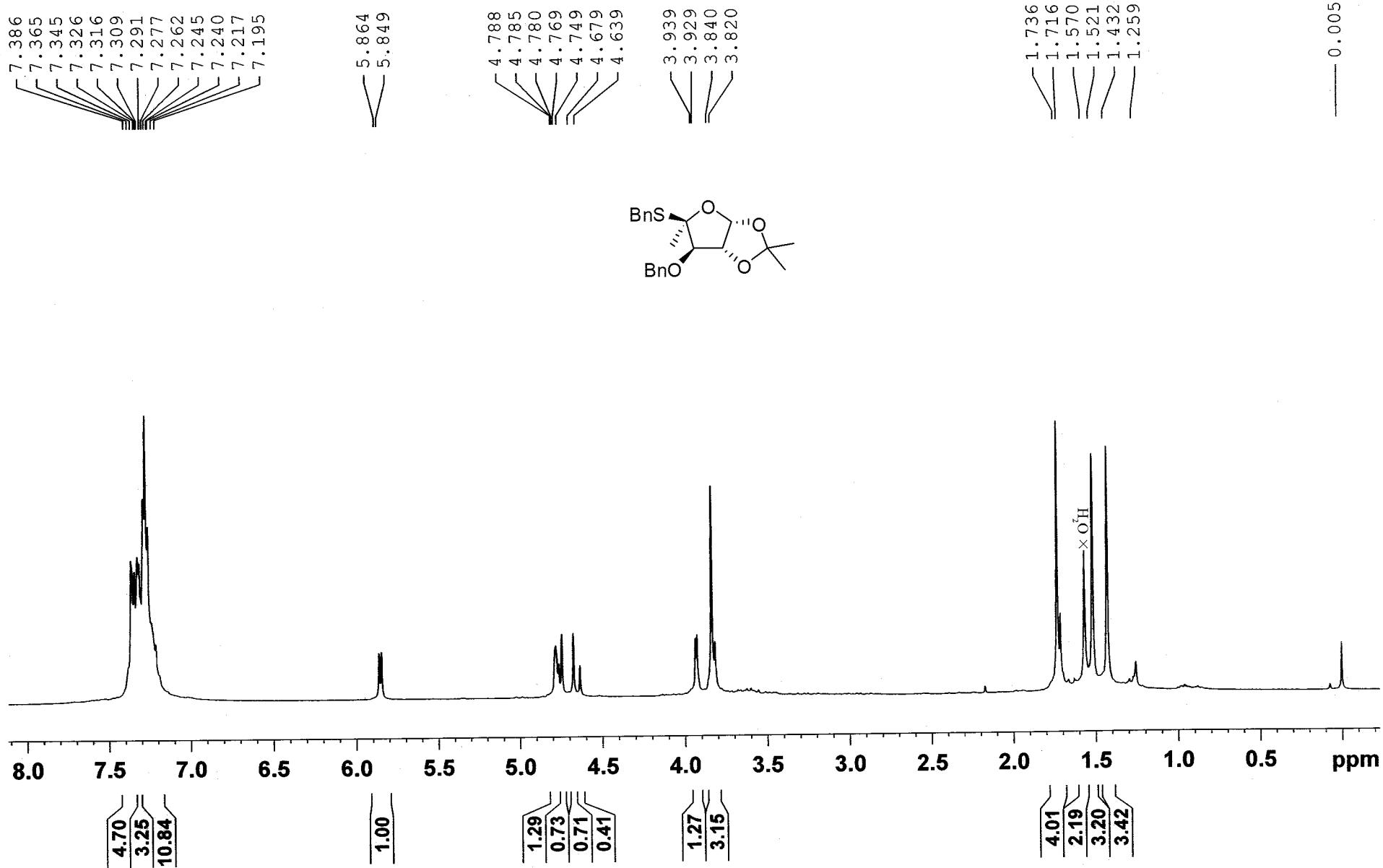
¹H NMR spectrum (CDCl_3 , 300 MHz) of **2b**



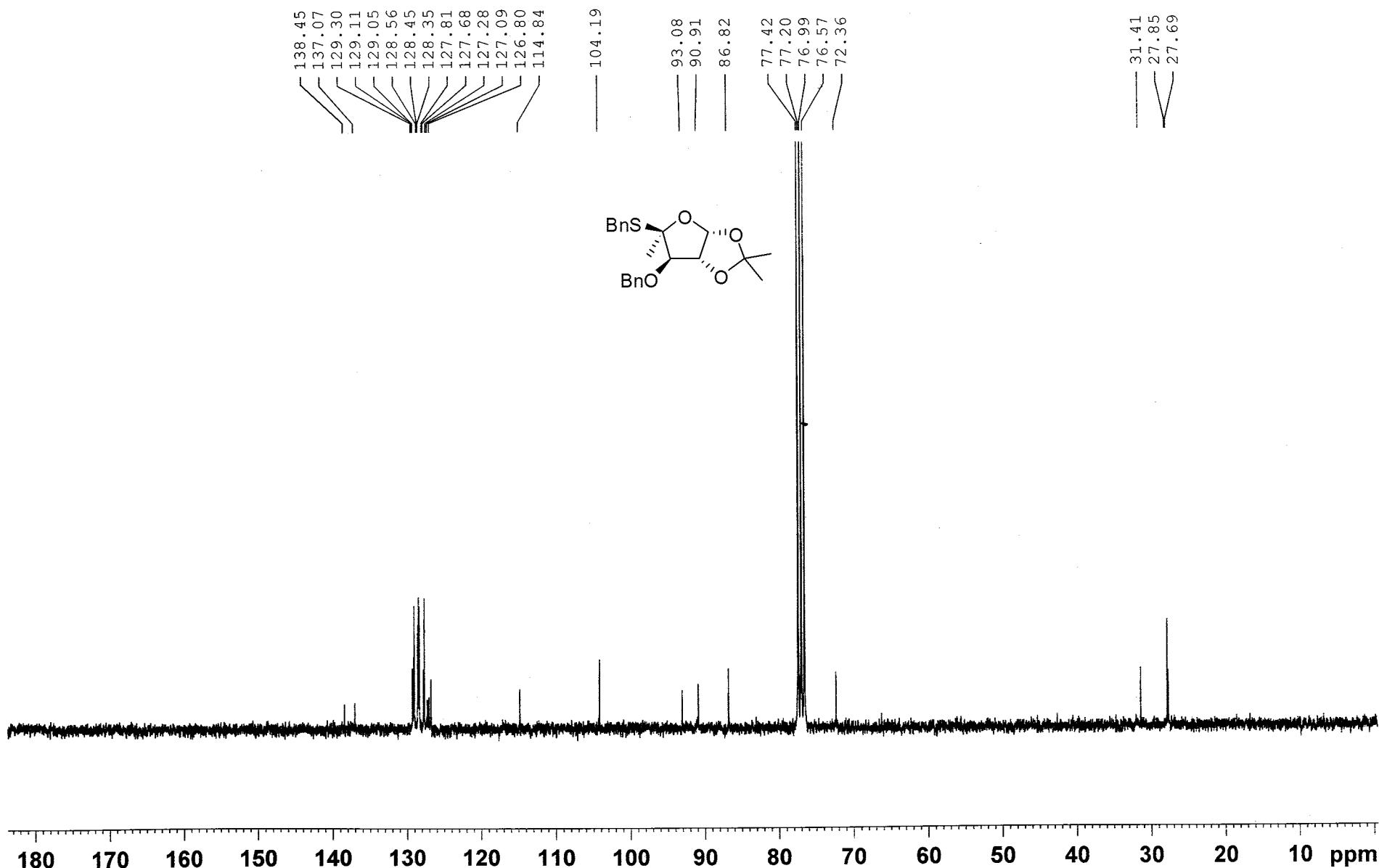
^{13}C NMR spectrum (CDCl_3 , 75 MHz) of **2b**



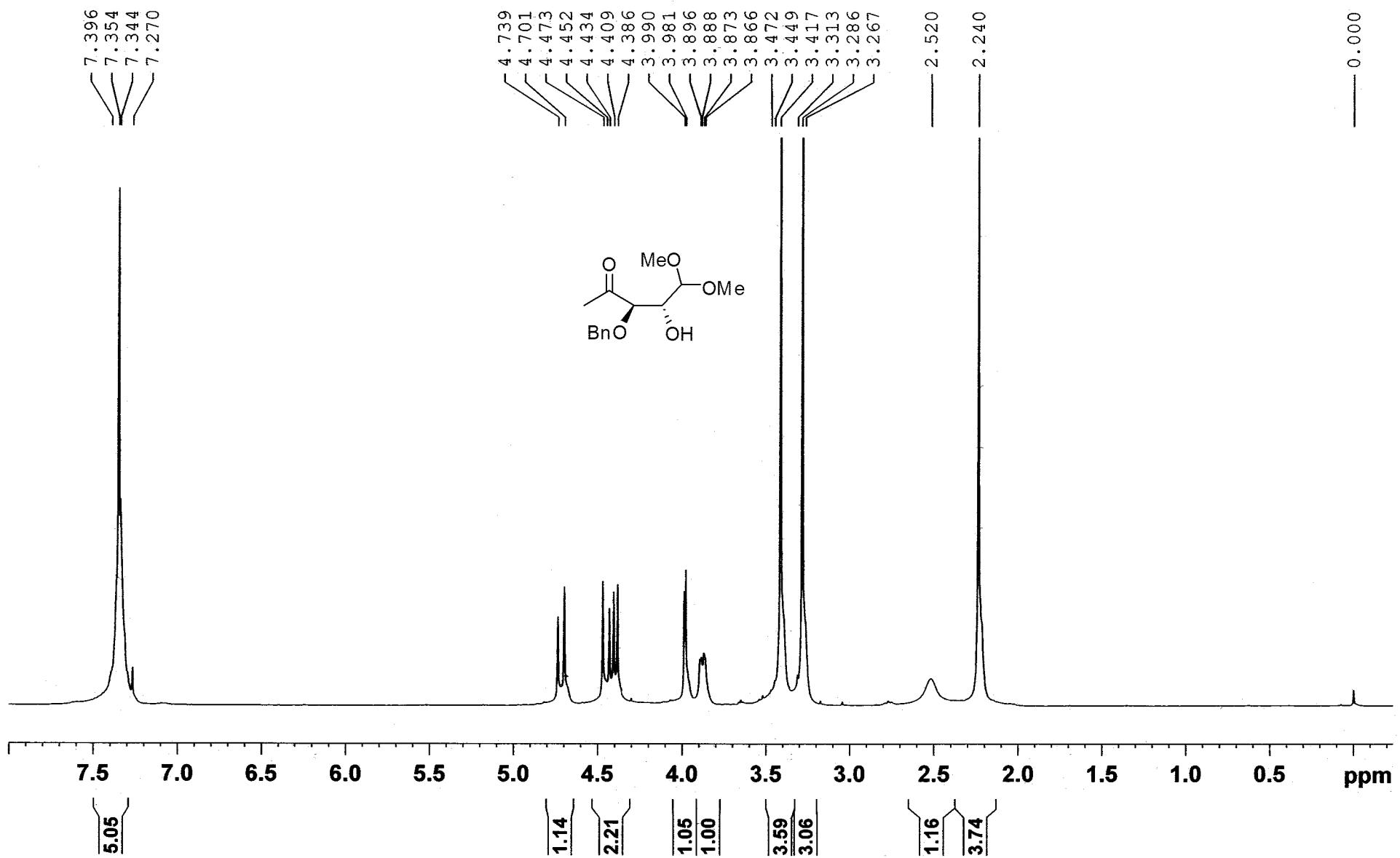
¹H NMR spectrum (CDCl_3 , 300 MHz) of **2c**

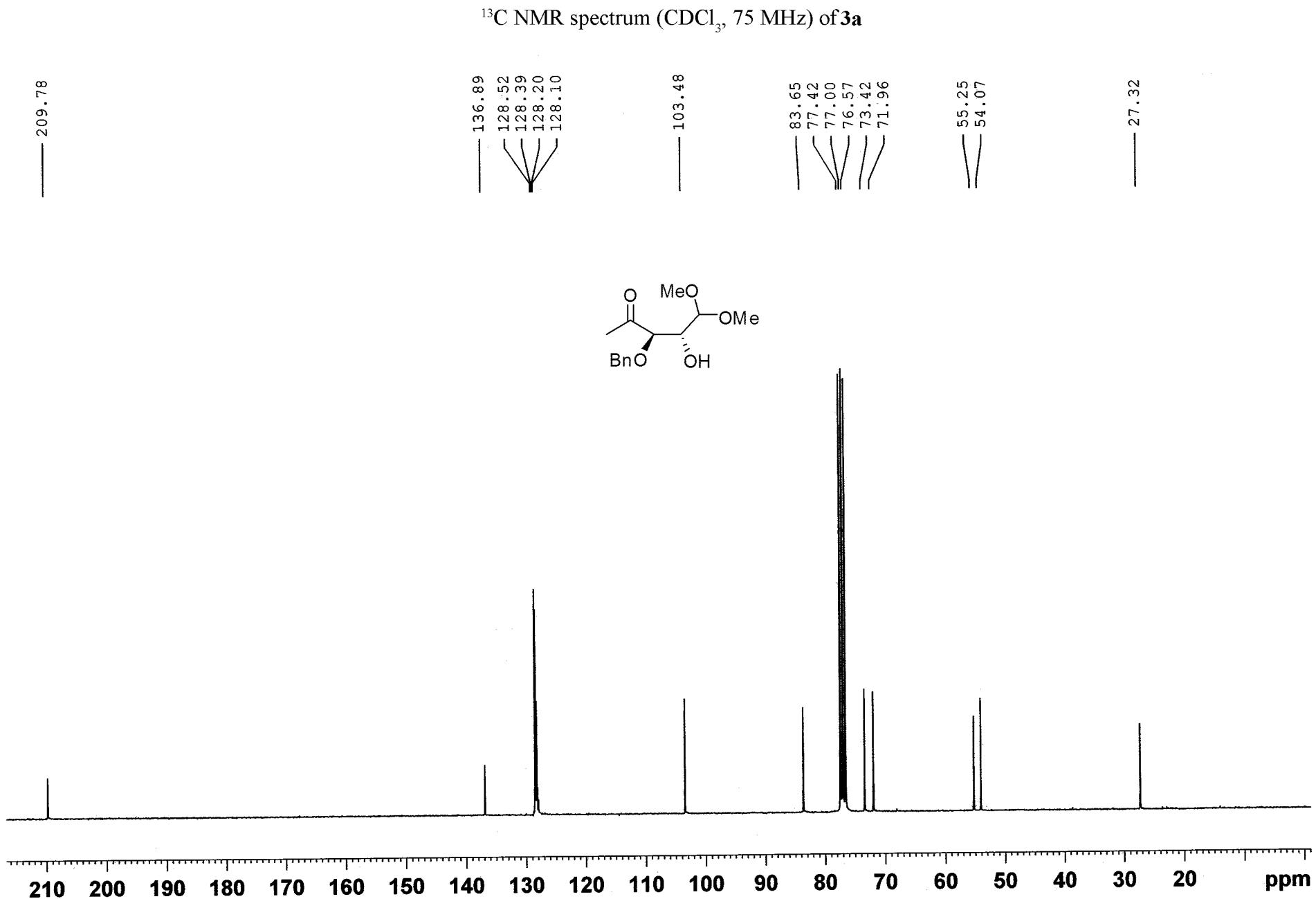


^{13}C NMR spectrum (CDCl_3 , 75 MHz) of **2c**

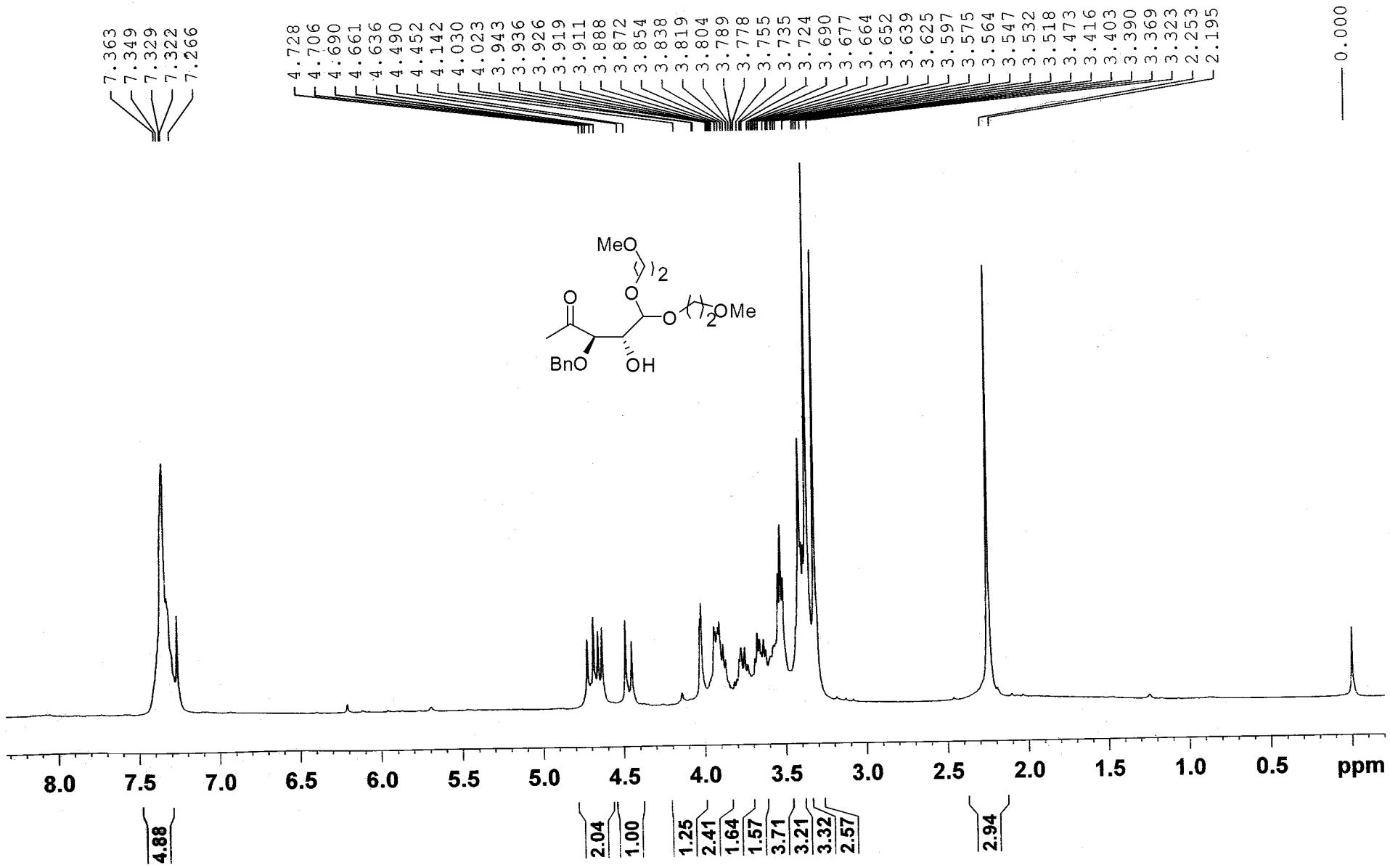


¹H NMR spectrum (CDCl_3 , 300 MHz) of **3a**

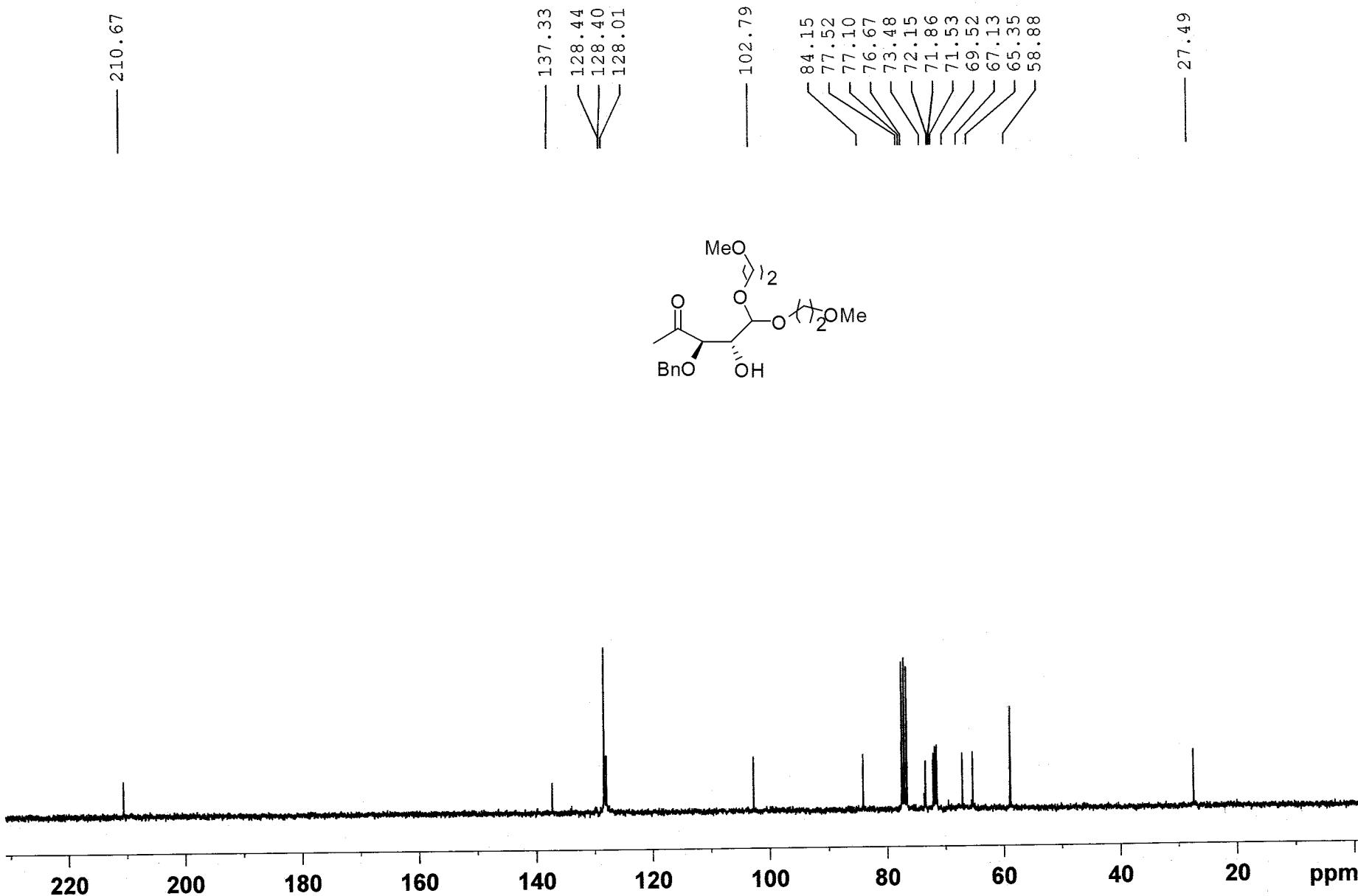




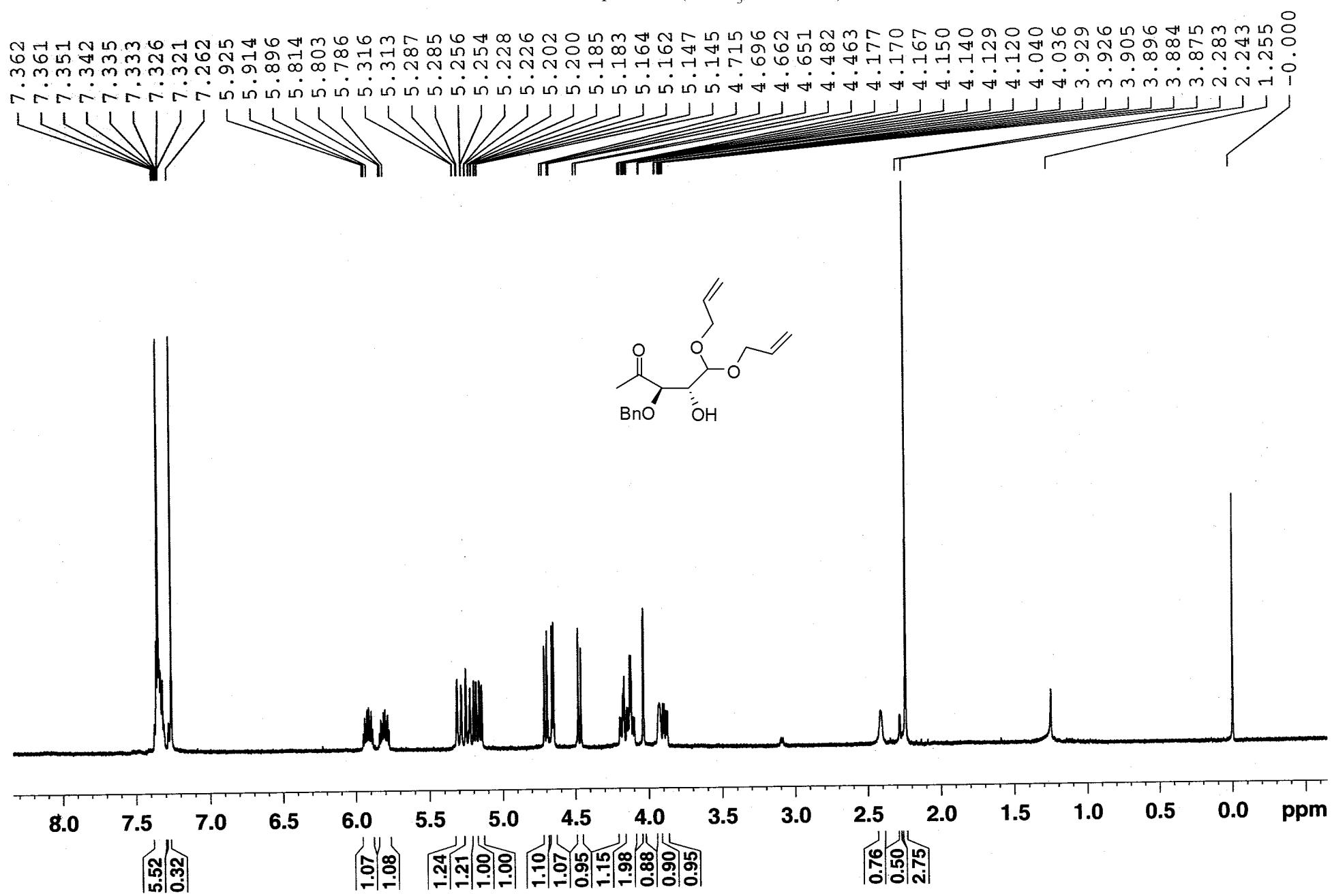
¹H NMR spectrum (CDCl_3 , 300 MHz) of **3b**



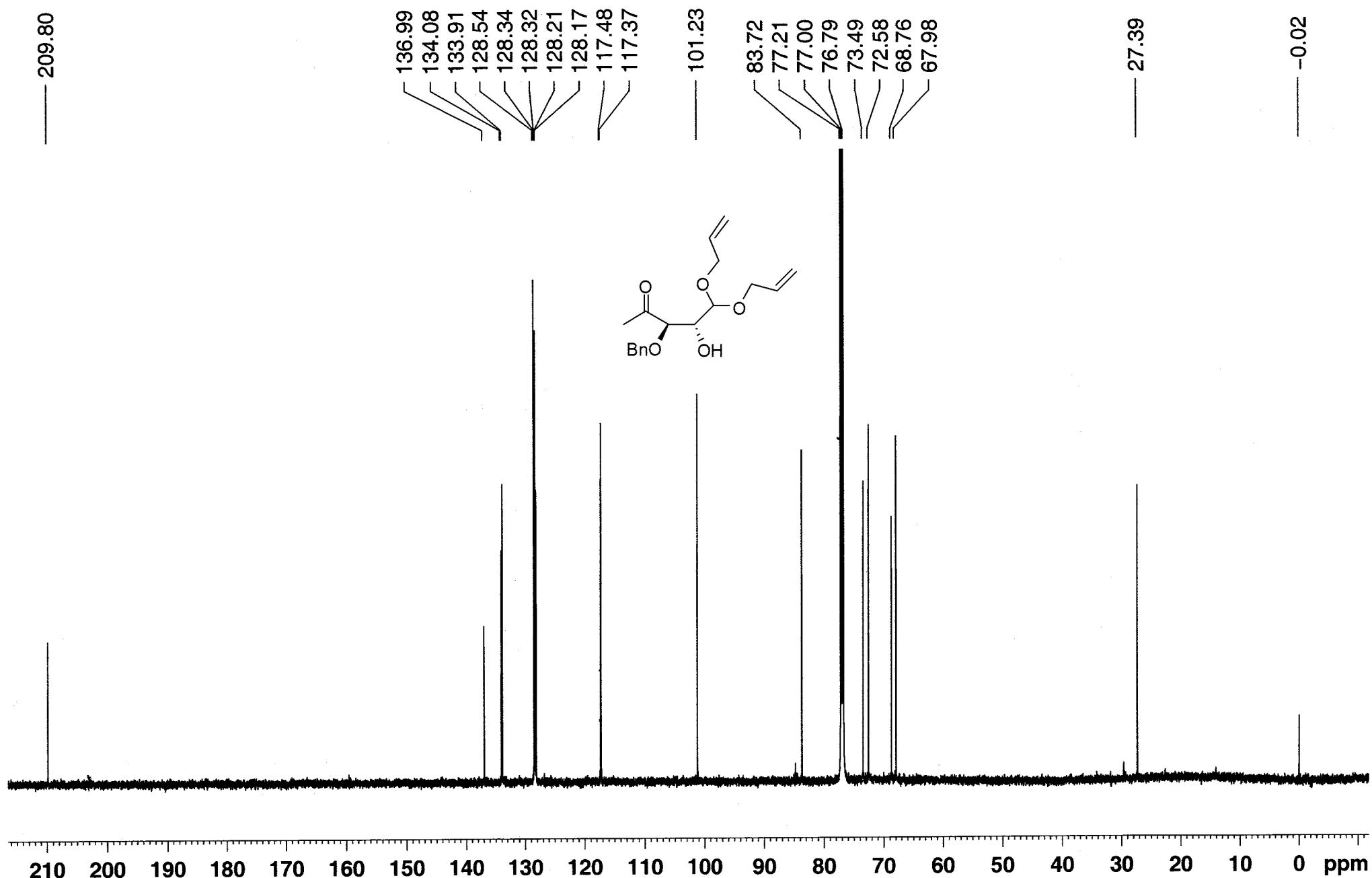
¹³C NMR spectrum (CDCl_3 , 75 MHz) of **3b**



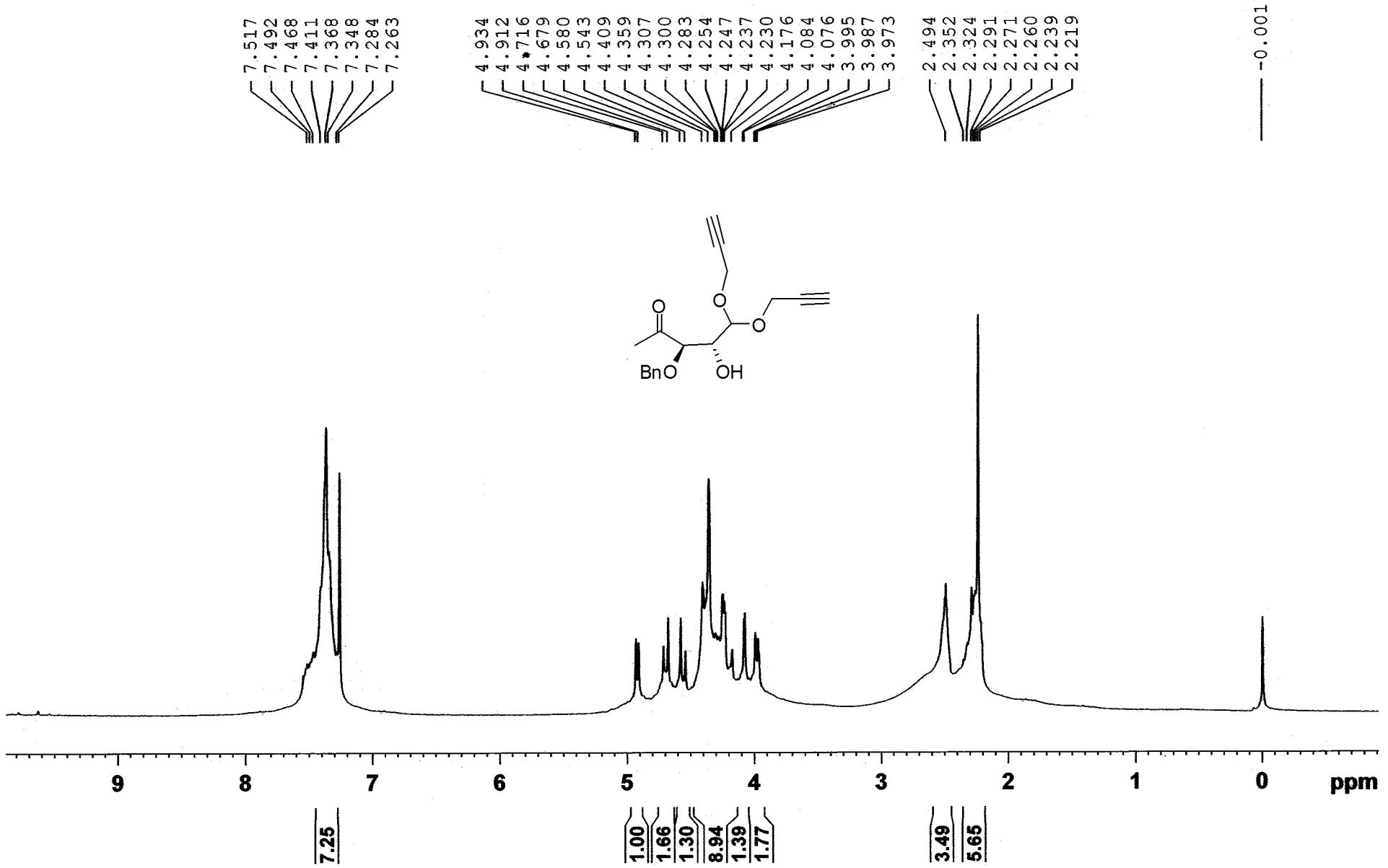
¹H NMR spectrum (CDCl_3 , 600 MHz) of **3c**



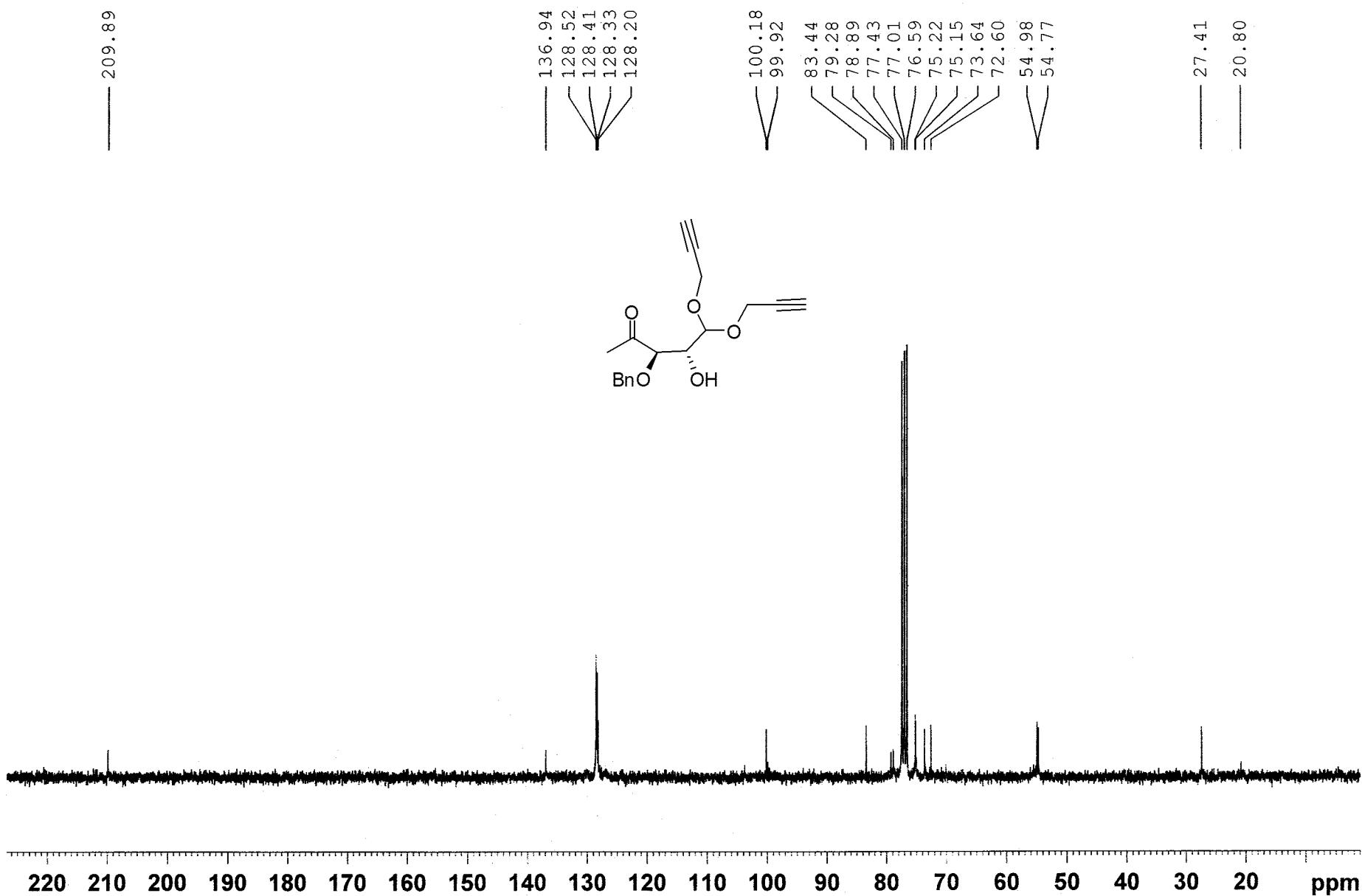
¹³C NMR spectrum (CDCl_3 , 150 MHz) of **3c**

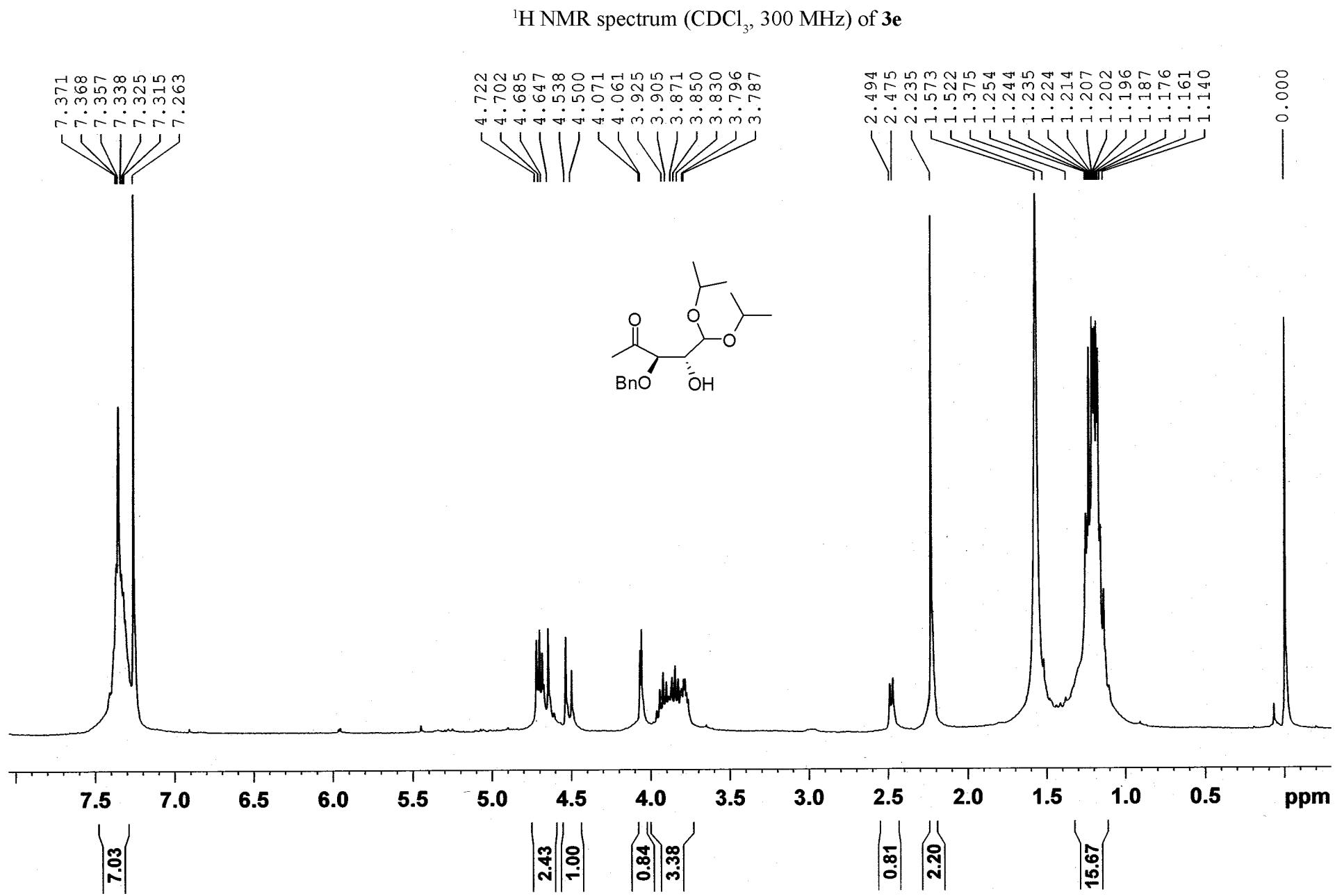


¹H NMR spectrum (CDCl_3 , 300 MHz) of 3d

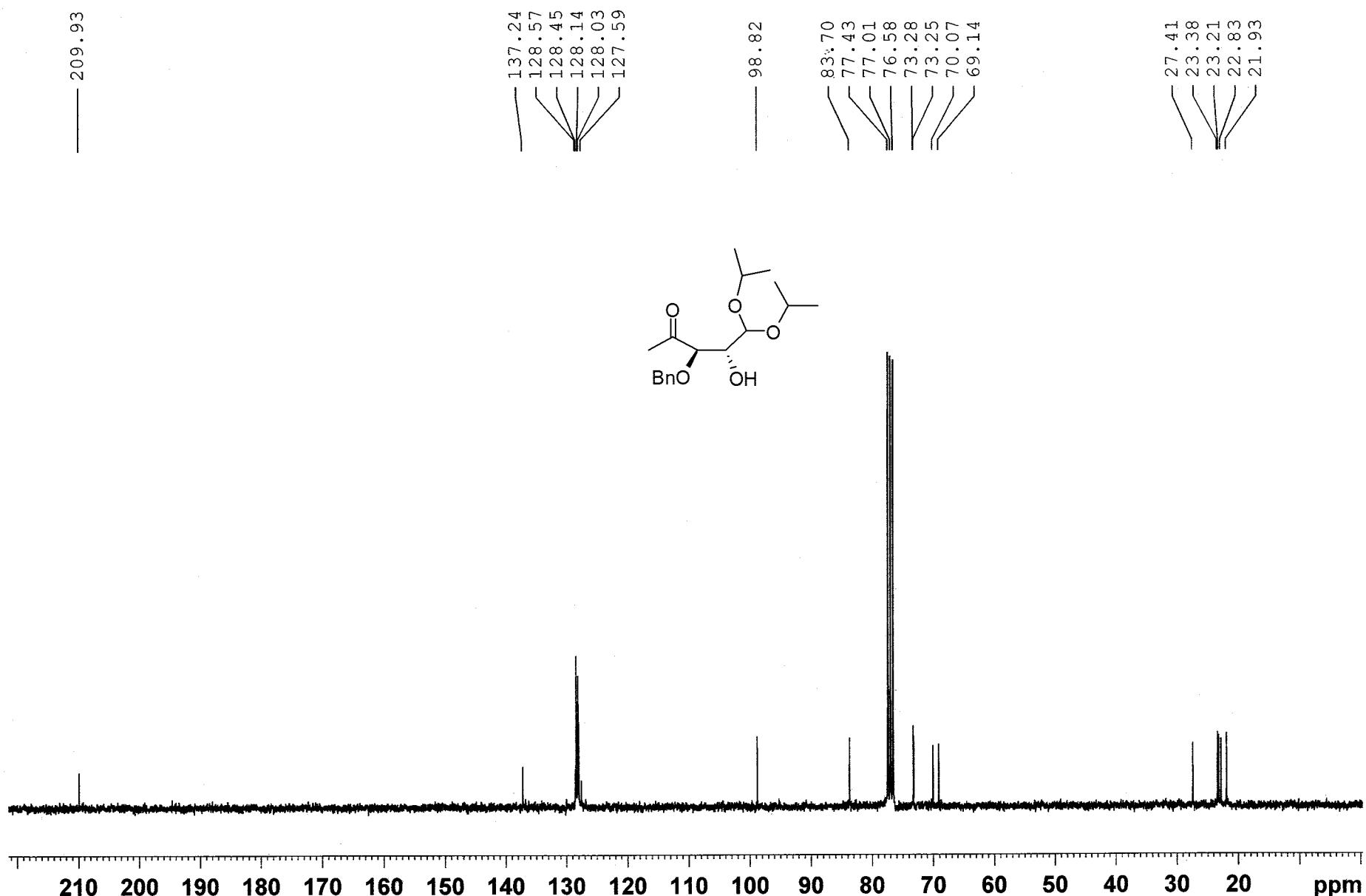


^{13}C NMR spectrum (CDCl_3 , 75 MHz) of **3d**

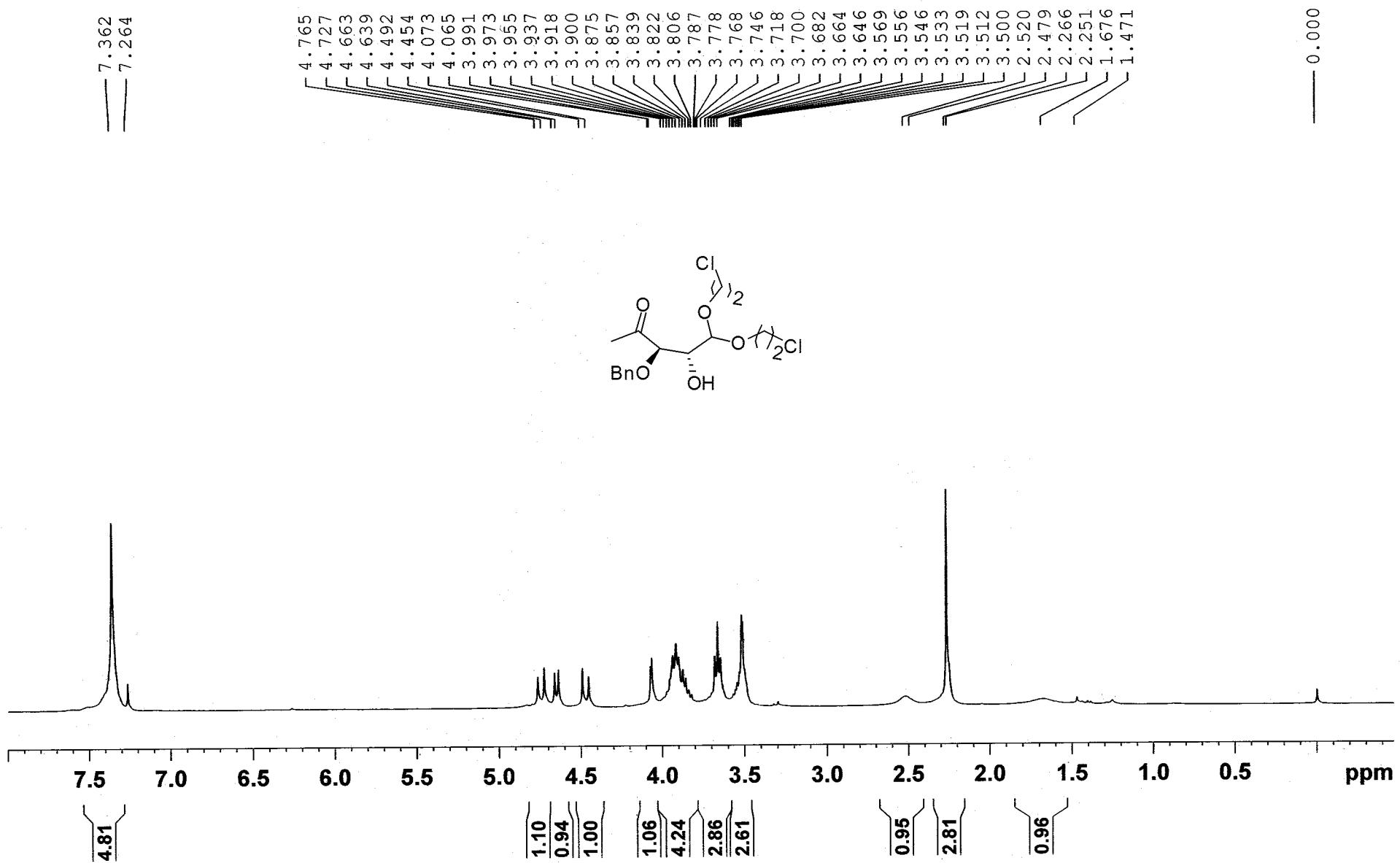




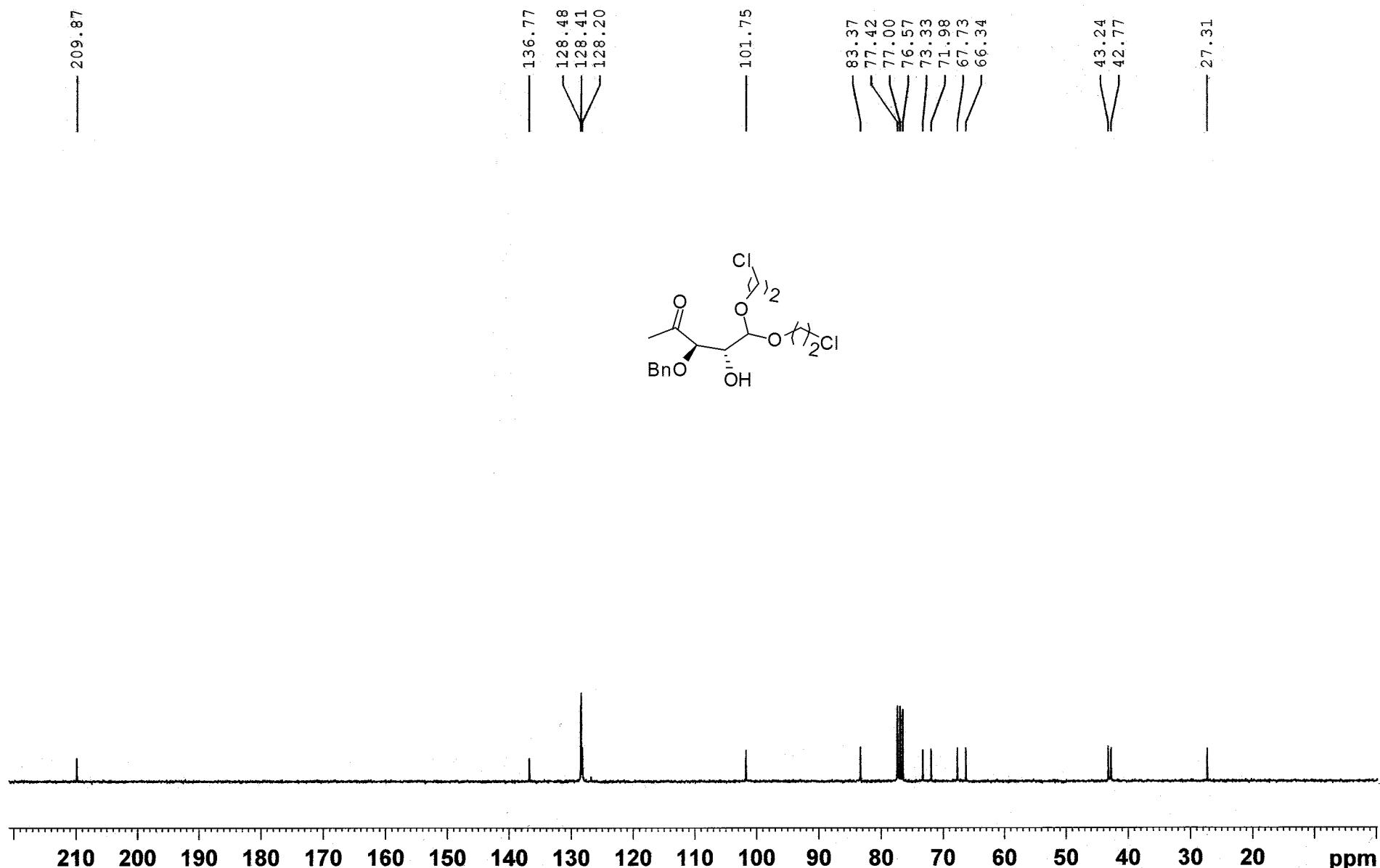
^{13}C NMR spectrum (CDCl_3 , 75 MHz) of **3e**



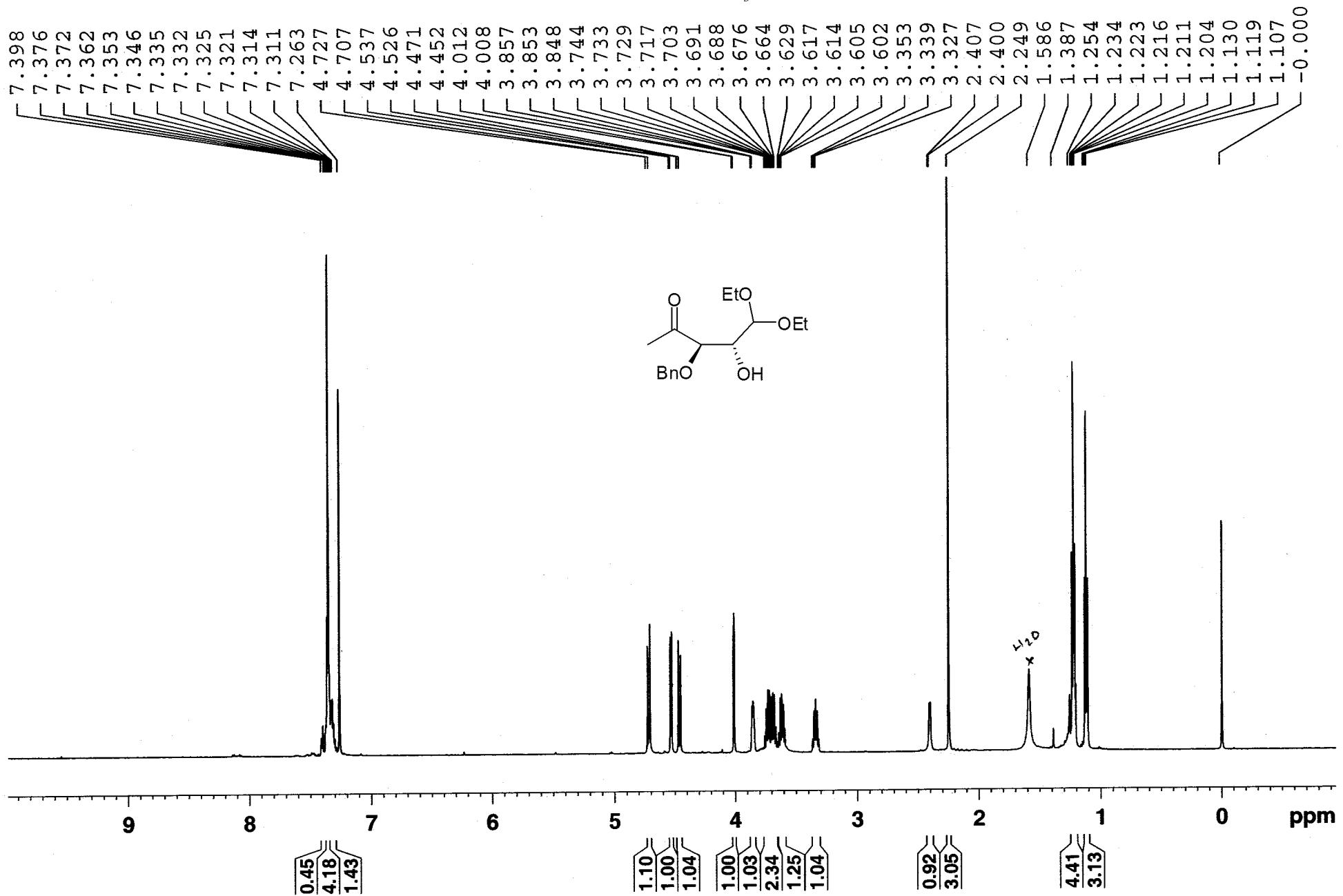
¹H NMR spectrum (CDCl_3 , 300 MHz) of **3f**



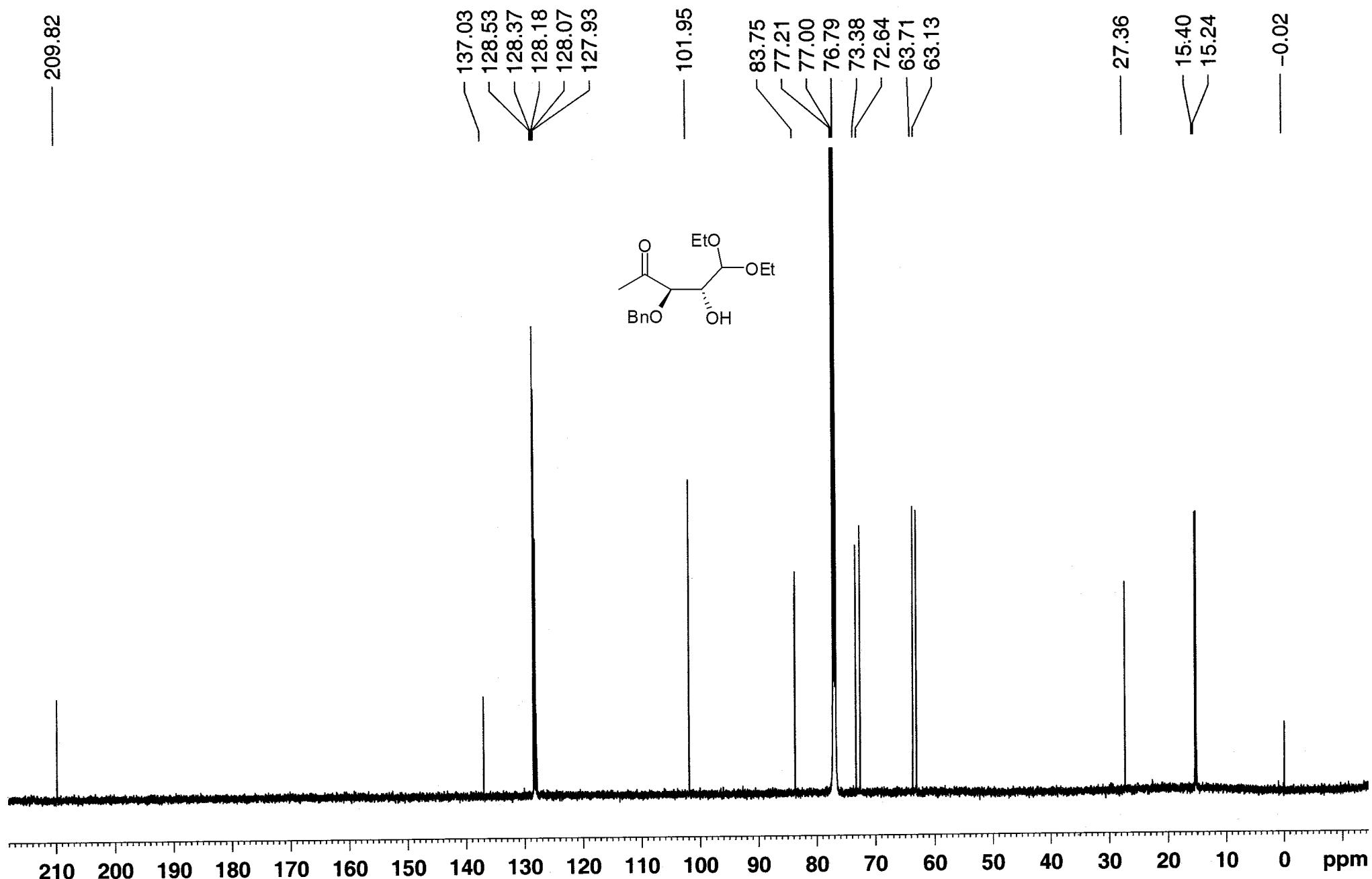
^{13}C NMR spectrum (CDCl_3 , 75 MHz) of **3f**



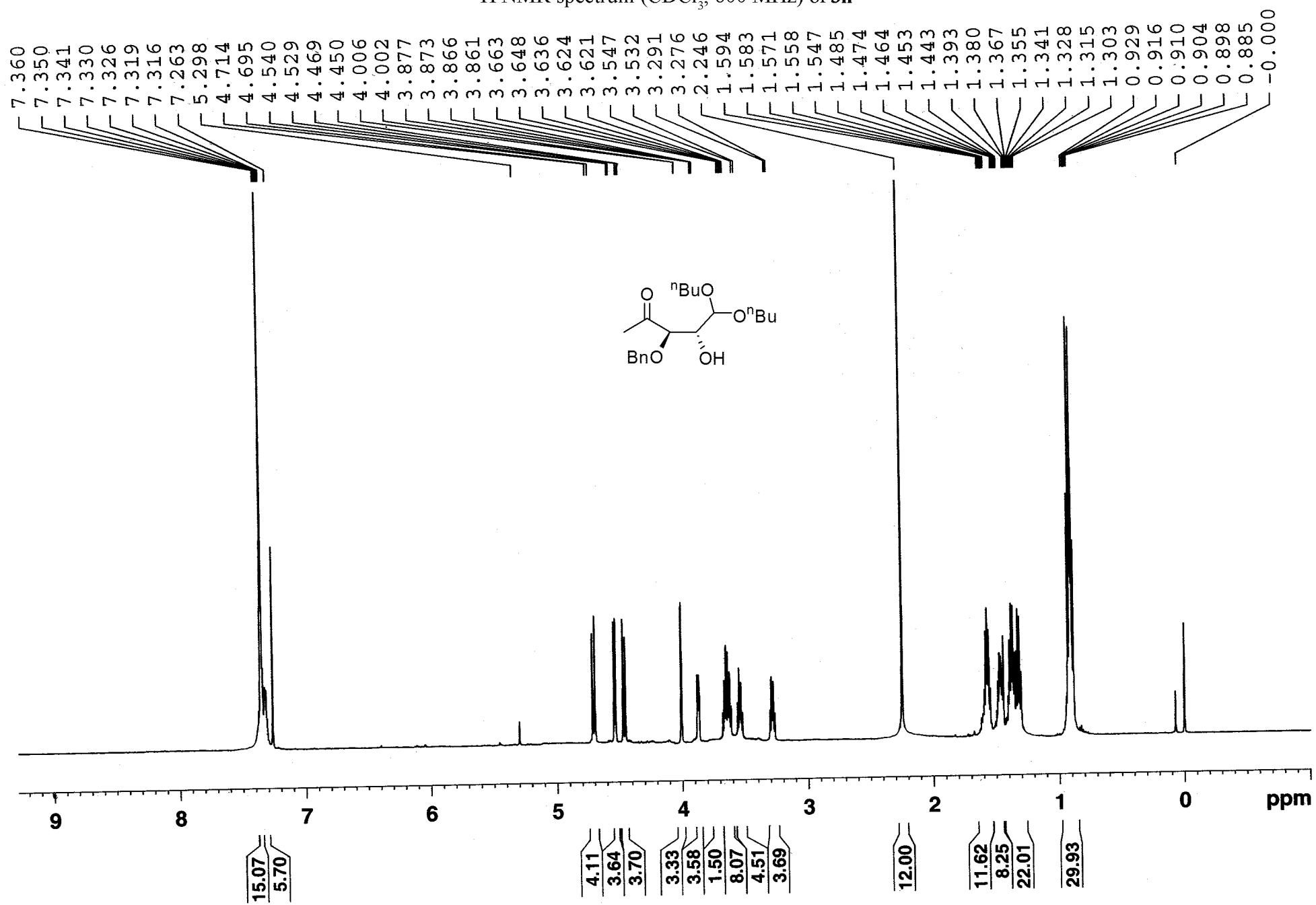
¹H NMR spectrum (CDCl_3 , 600 MHz) of **3g**



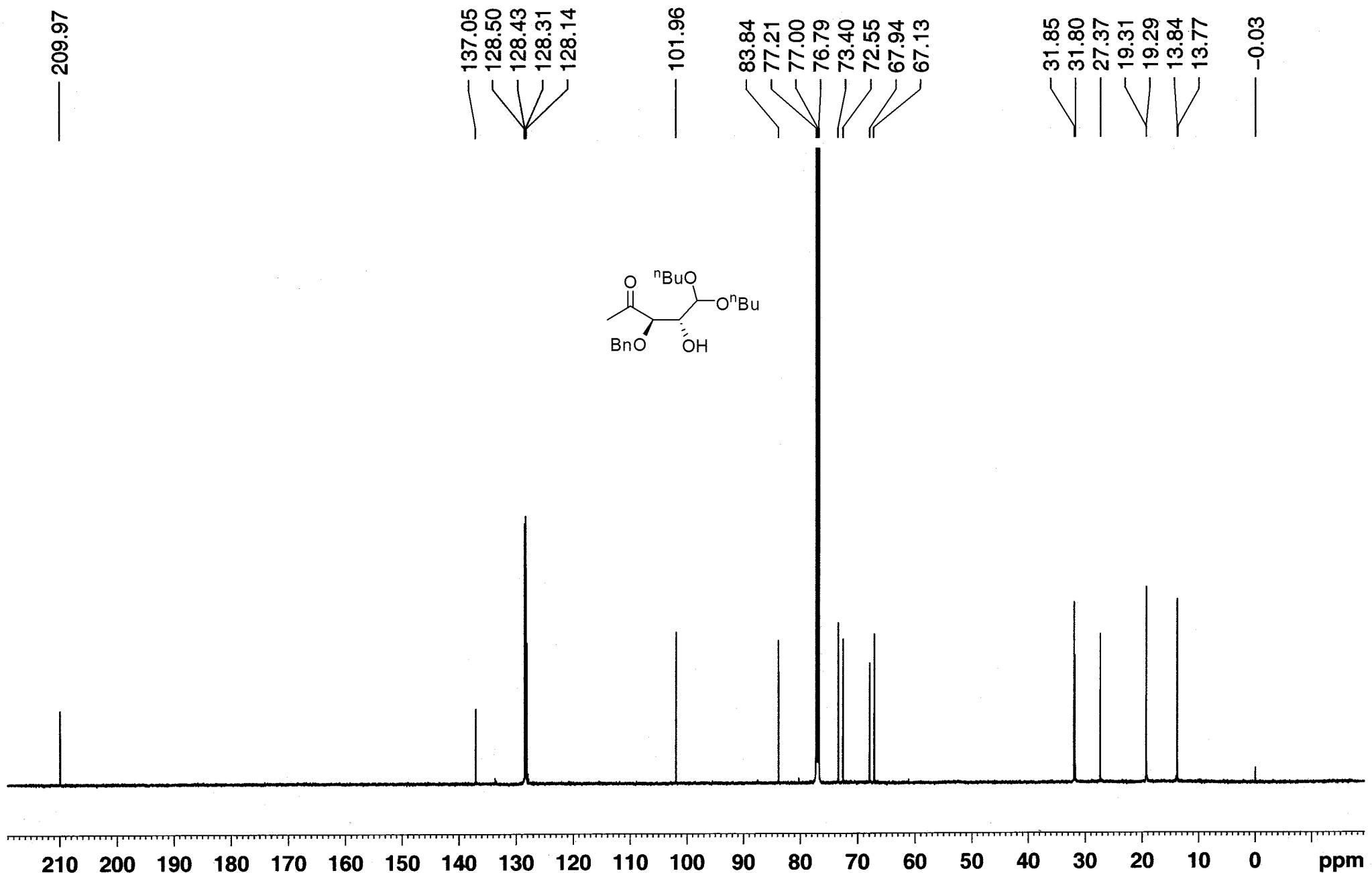
^{13}C NMR spectrum (CDCl_3 , 150 MHz) of **3g**

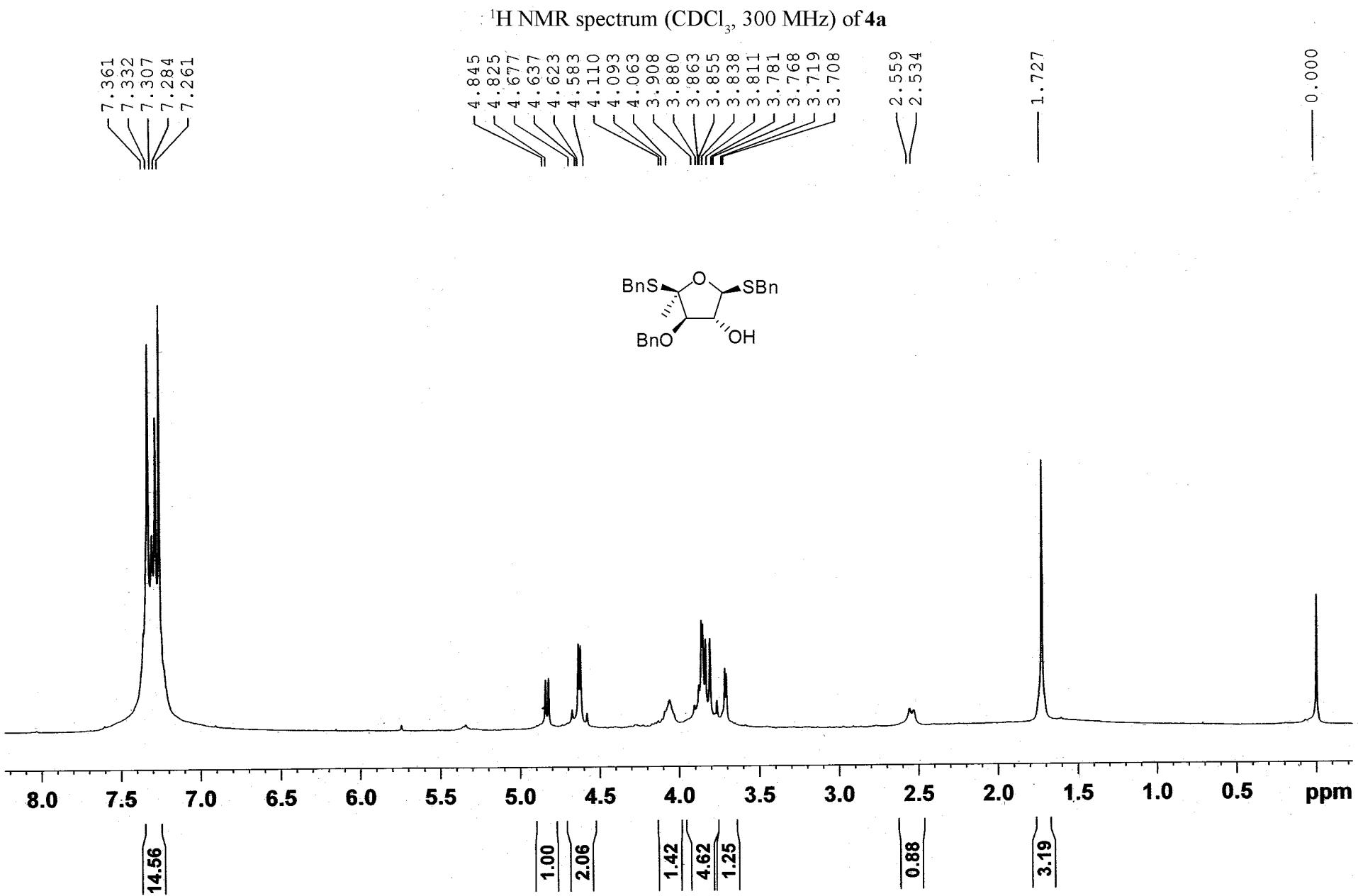


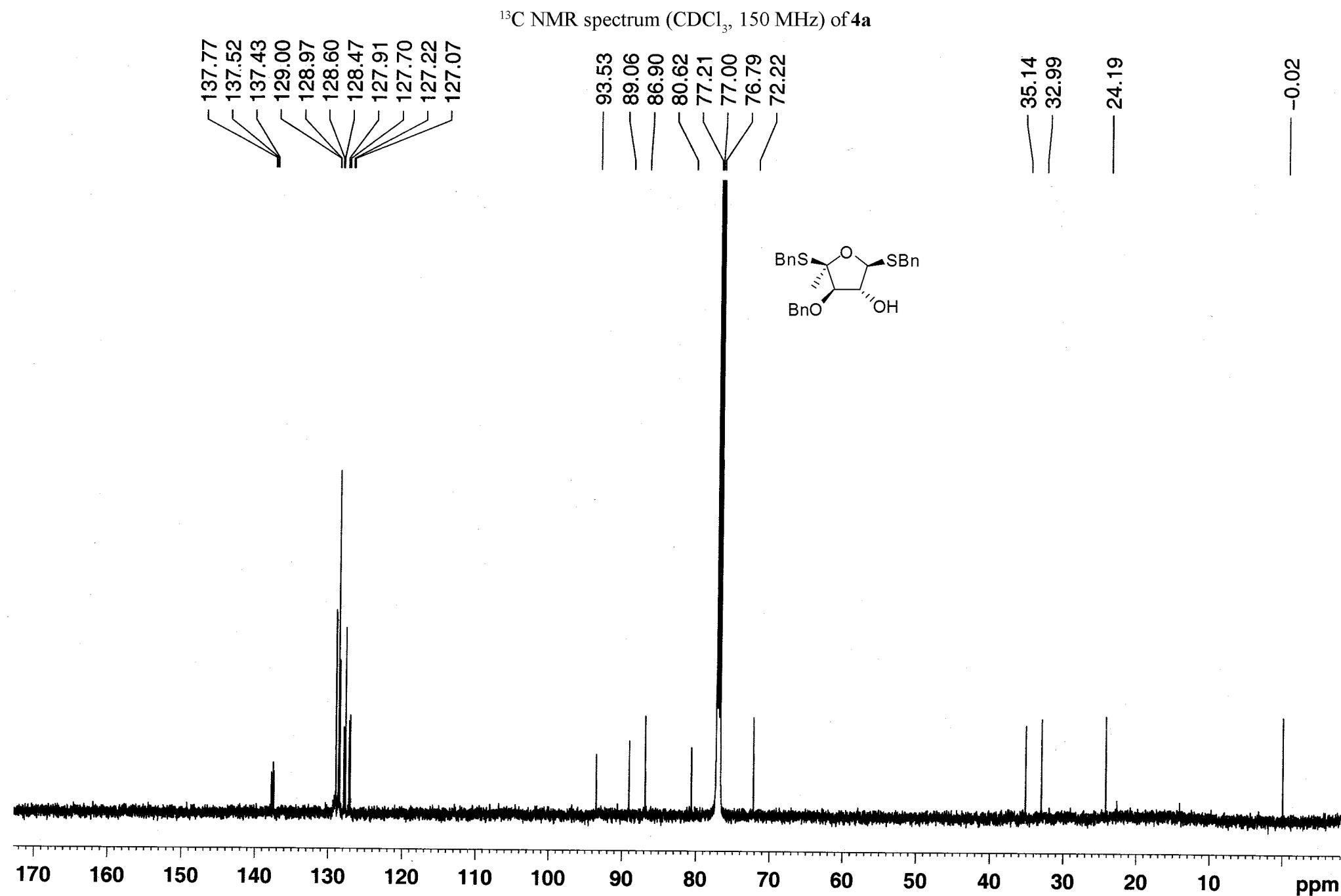
¹H NMR spectrum (CDCl_3 , 600 MHz) of **3h**



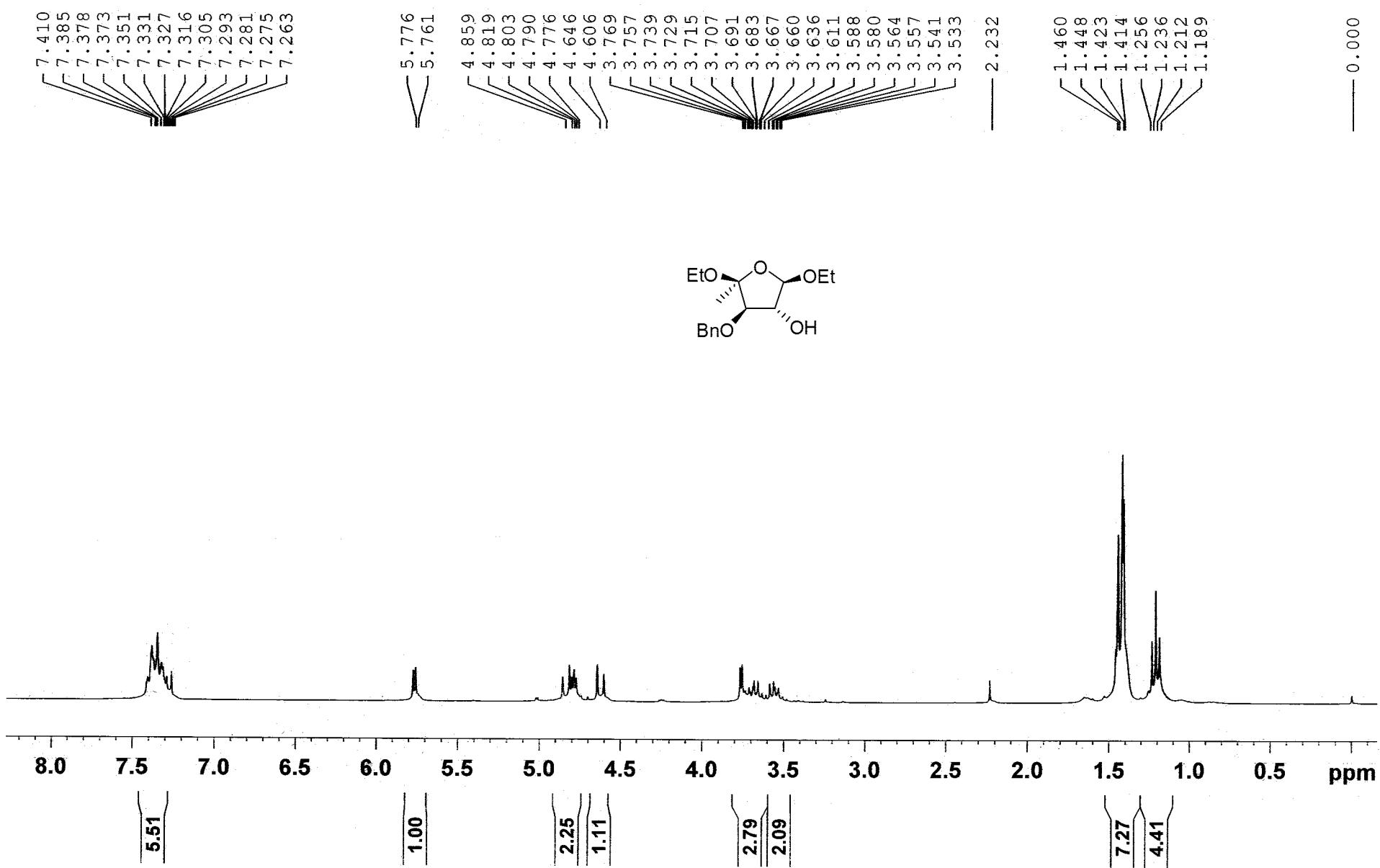
^{13}C NMR spectrum (CDCl_3 , 150 MHz) of **3h**



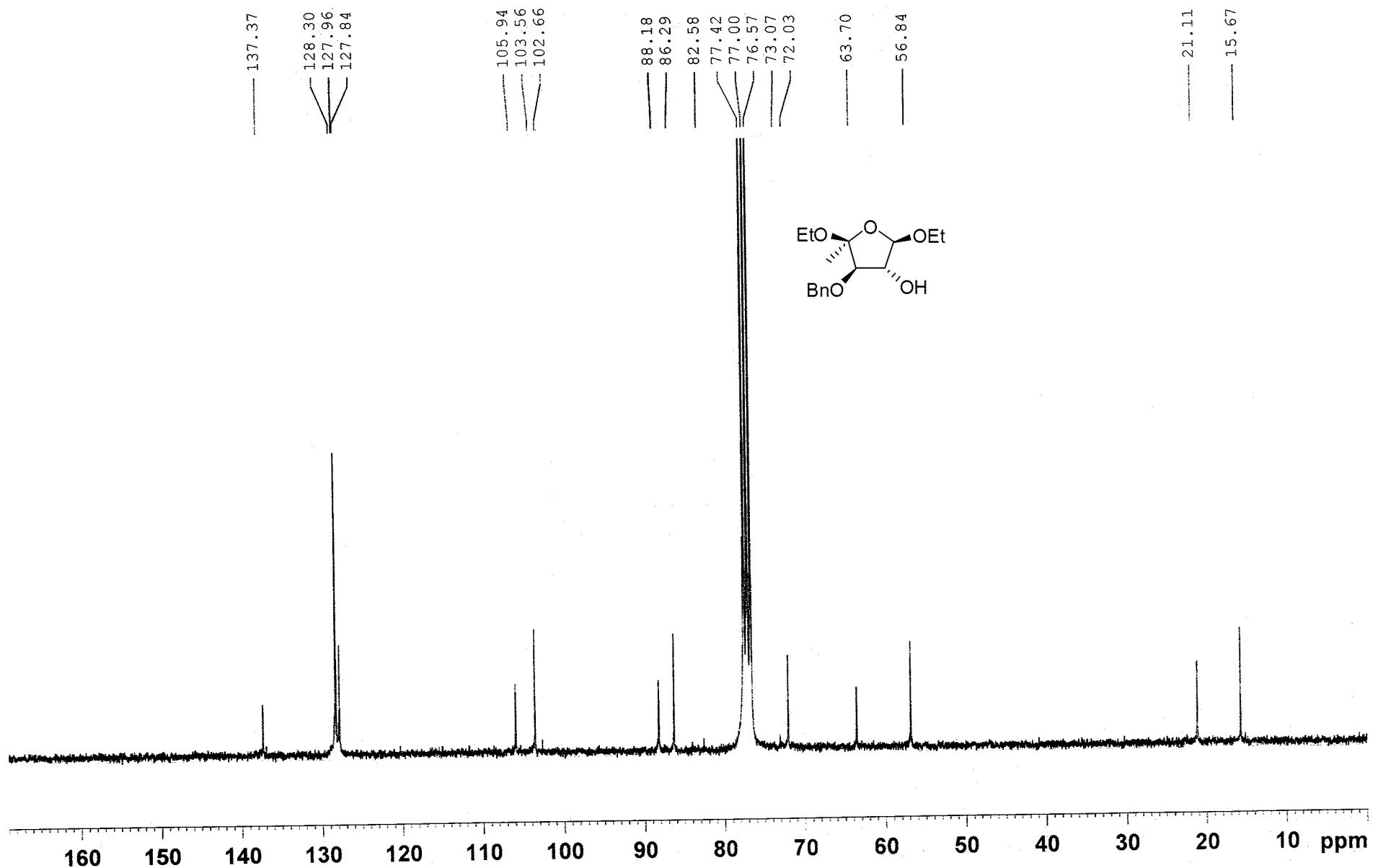




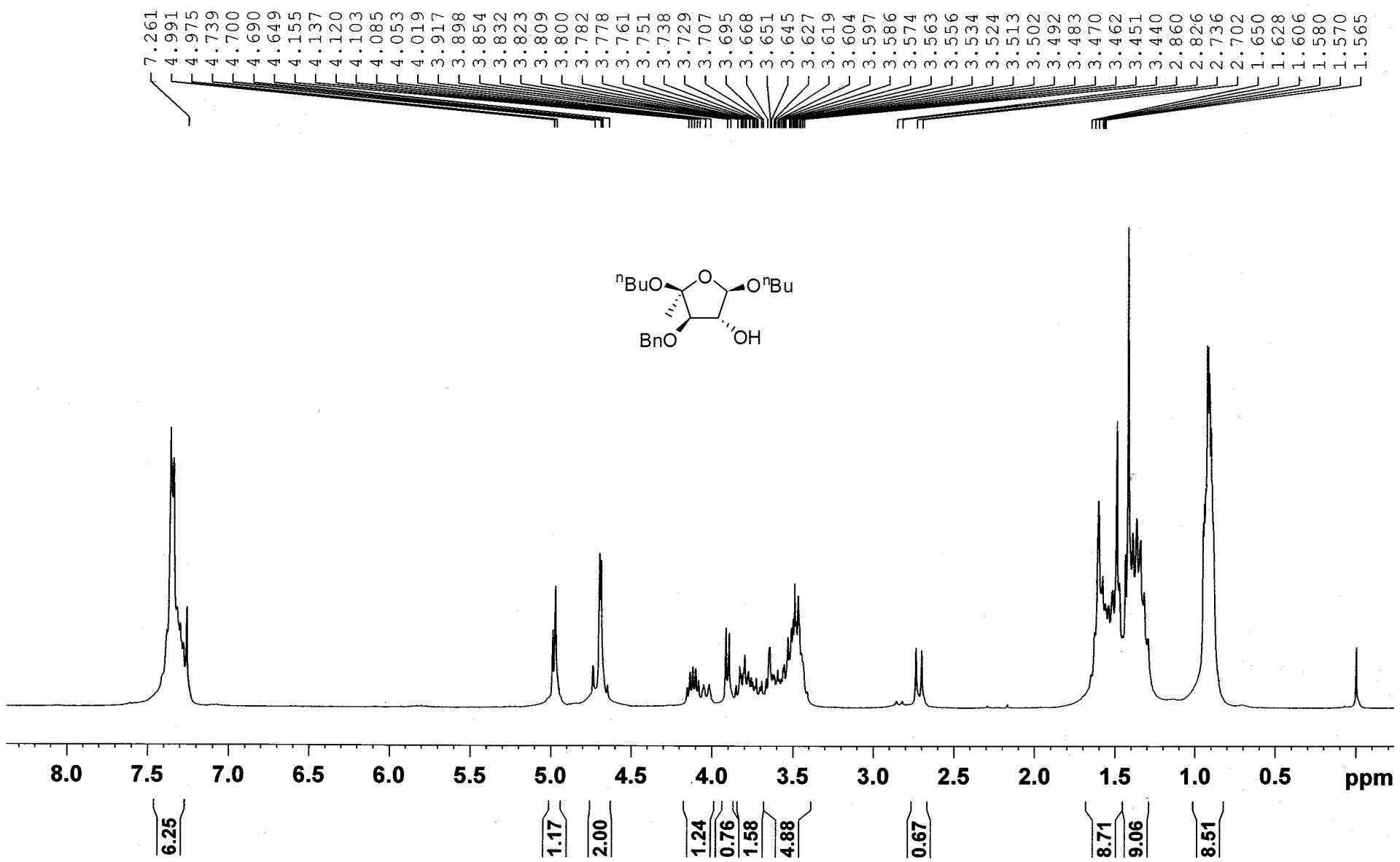
¹H NMR spectrum (CDCl_3 , 300 MHz) of **4b**



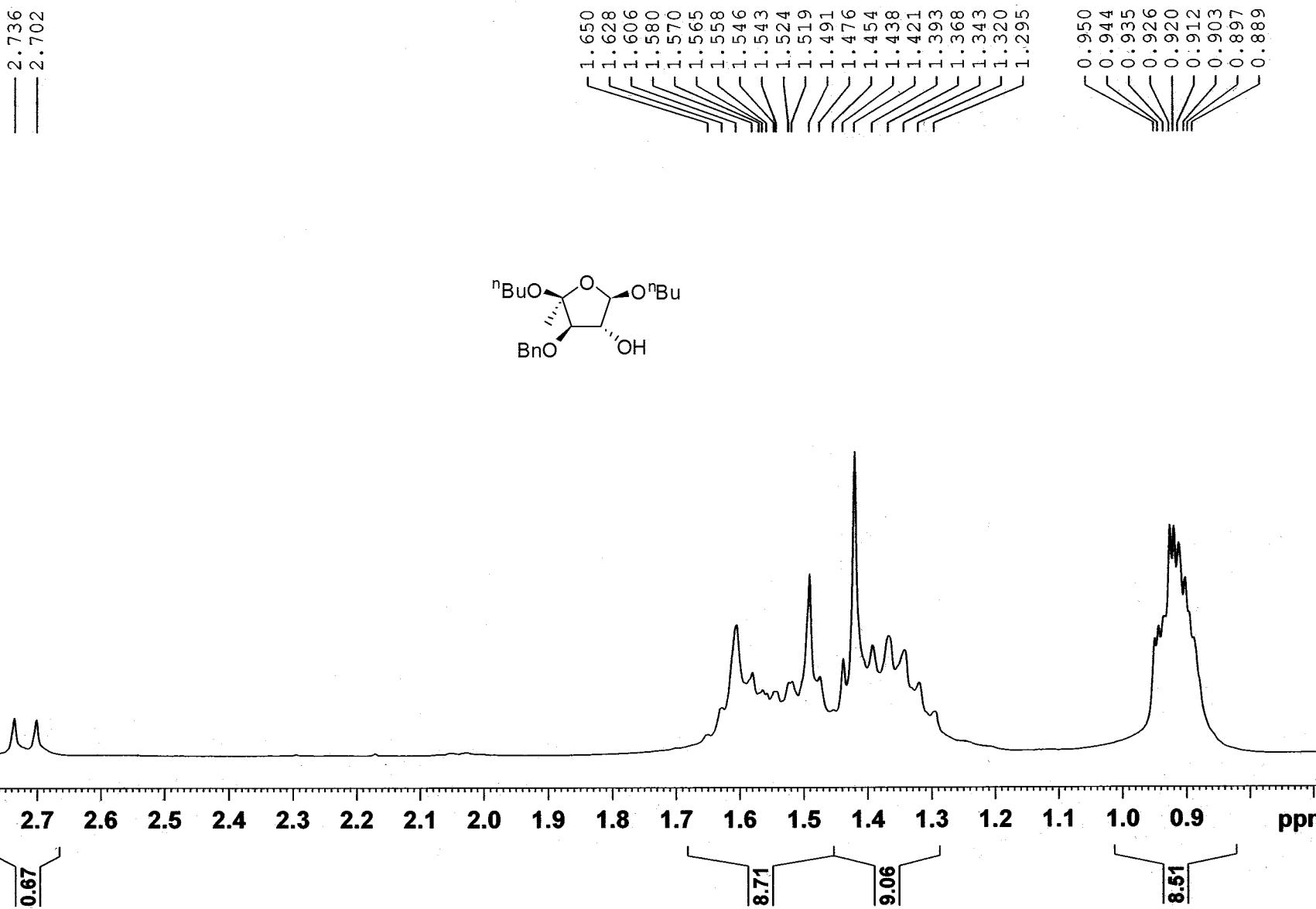
^{13}C NMR spectrum (CDCl_3 , 75 MHz) of **4b**

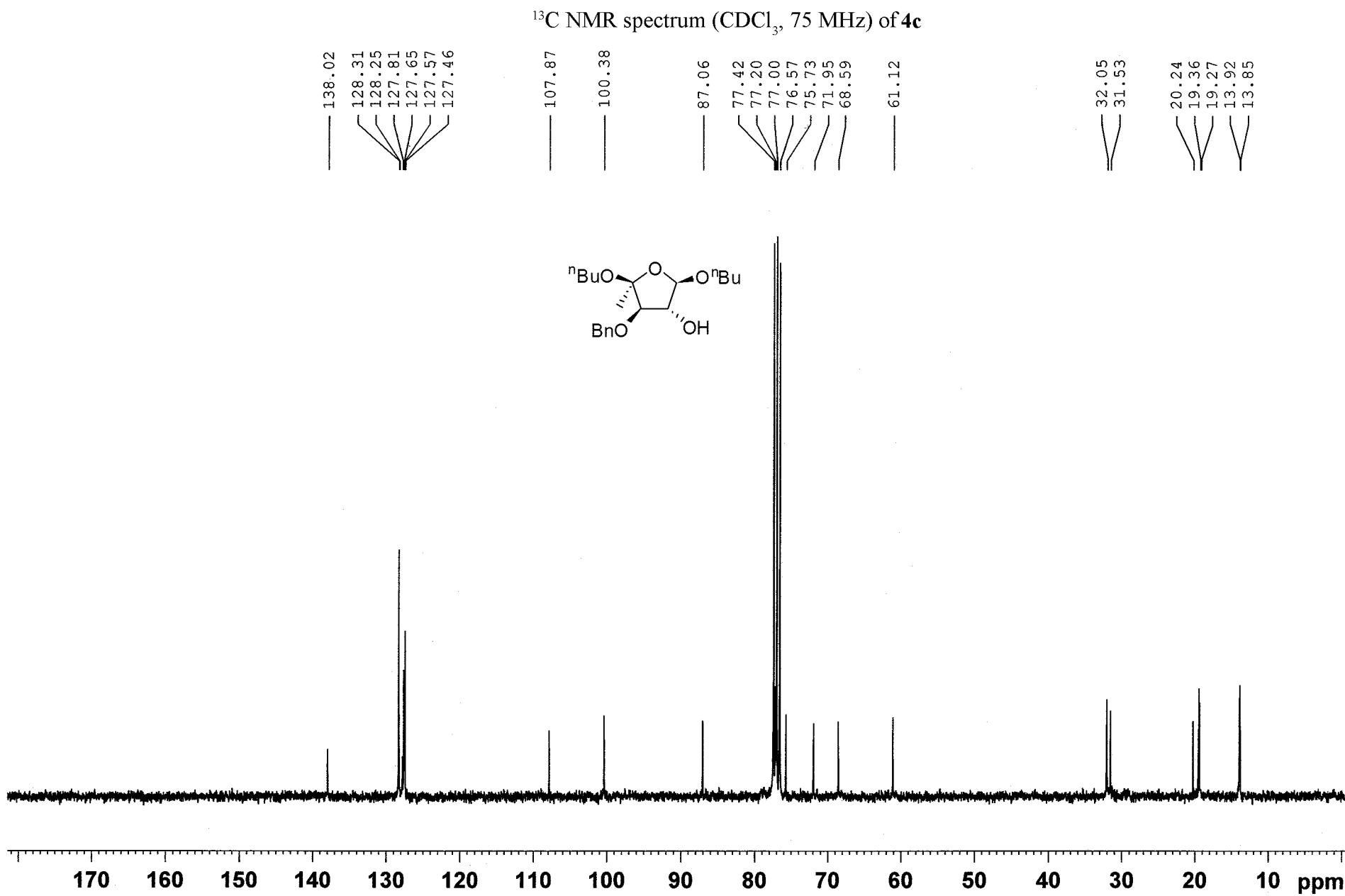


¹H NMR spectrum (CDCl_3 , 300 MHz) of **4c**

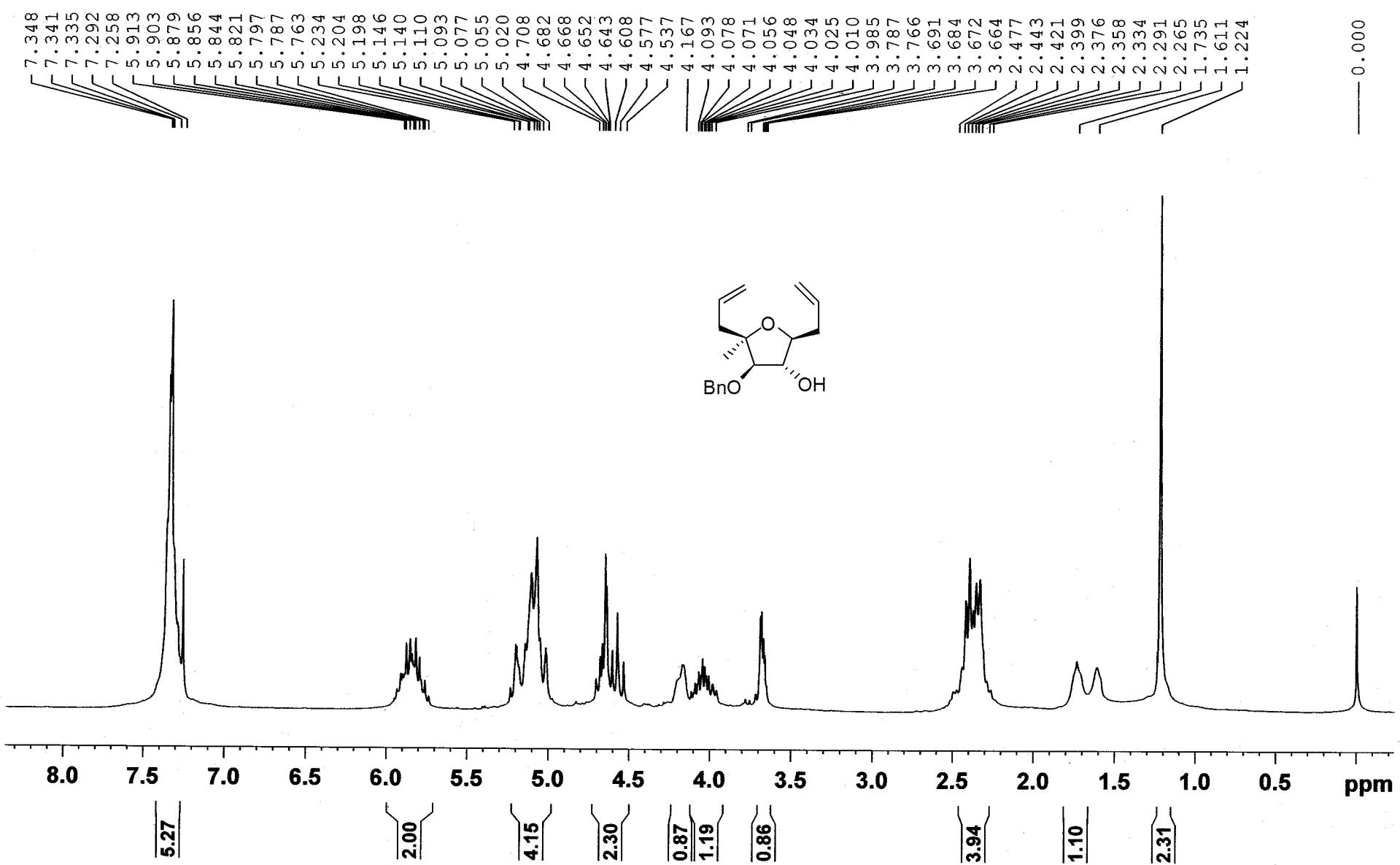


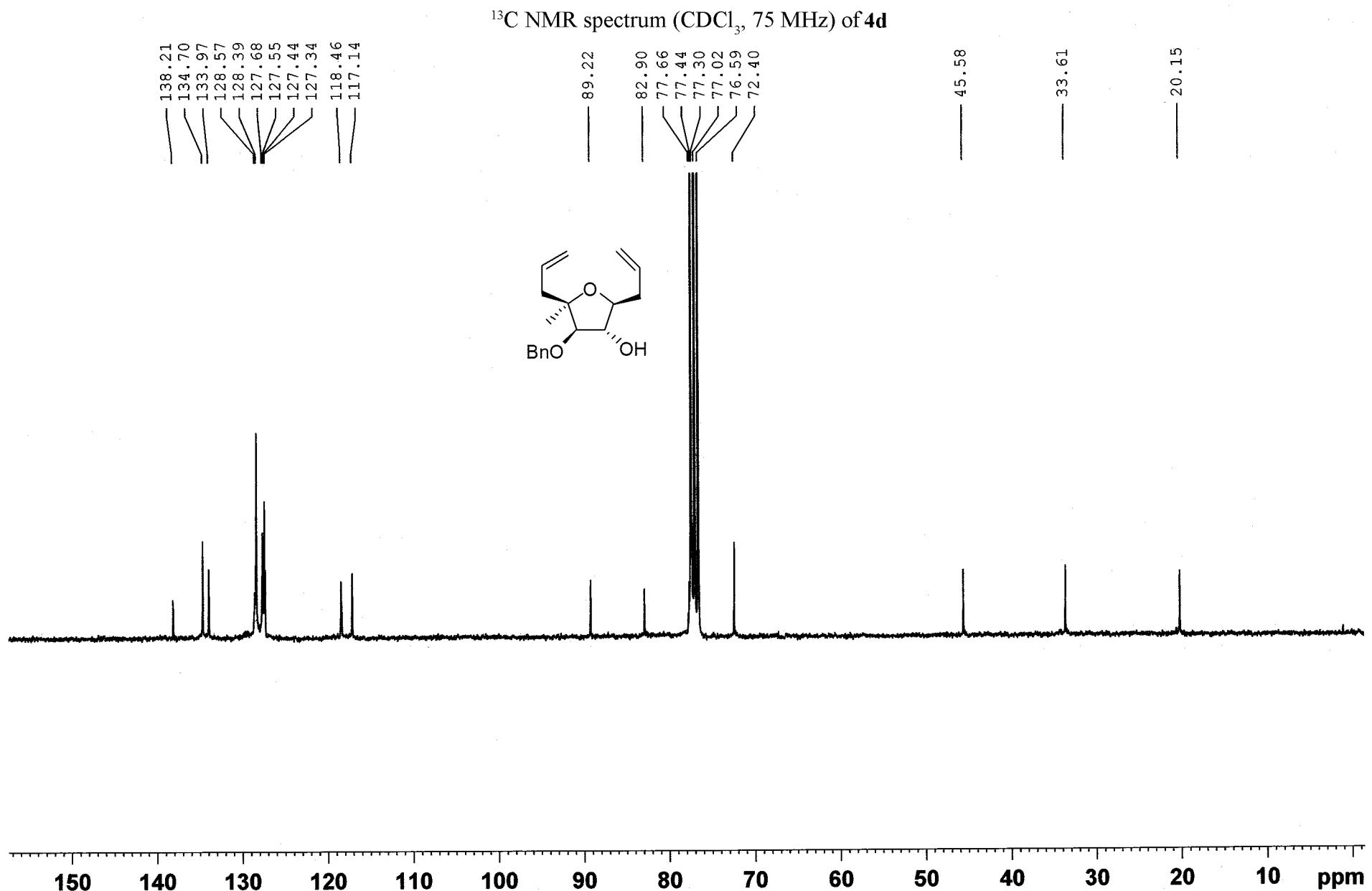
¹H NMR spectrum (CDCl_3 , 300 MHz) of **4c**
(region expanded δ 0.80 – 2.90)



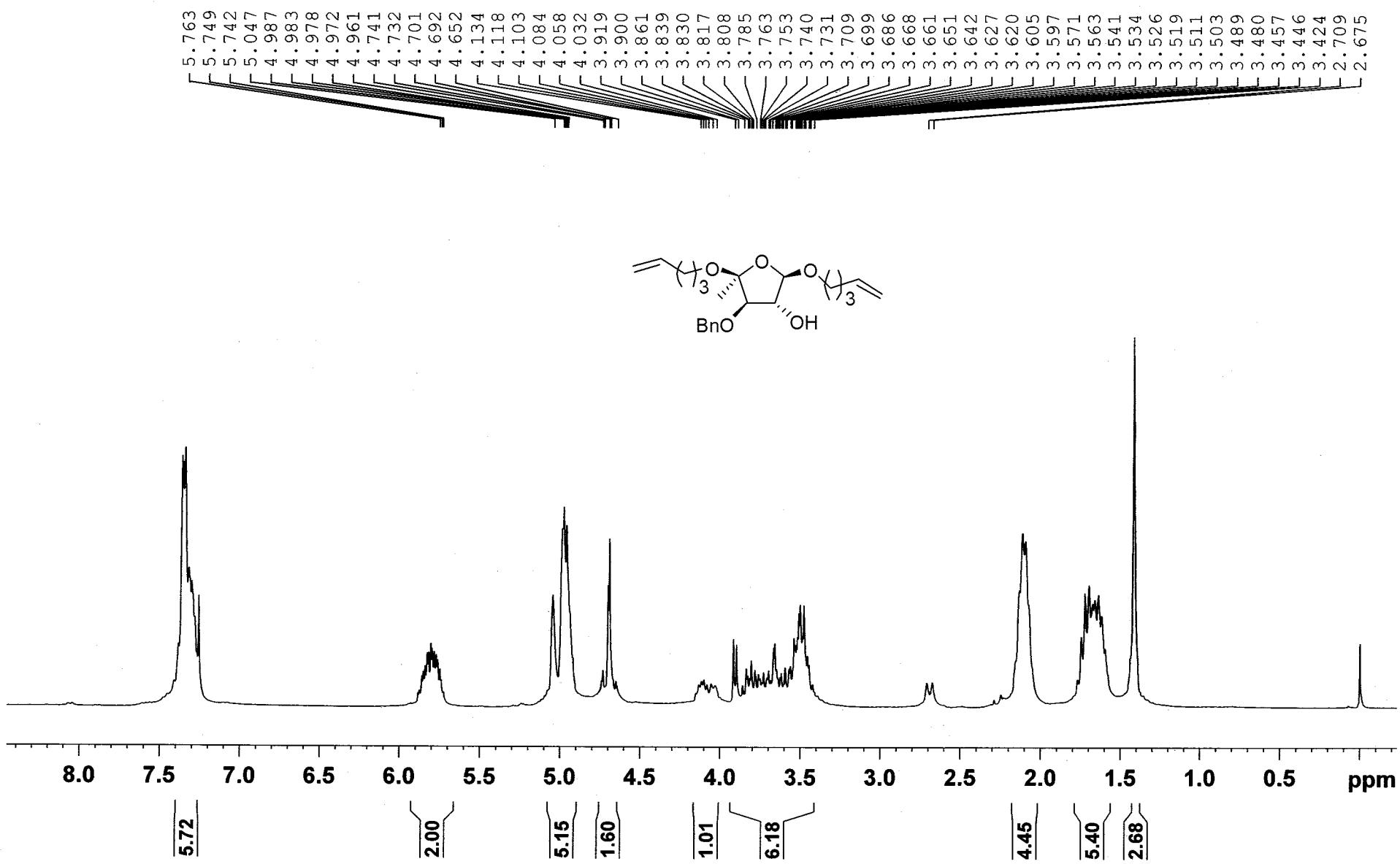


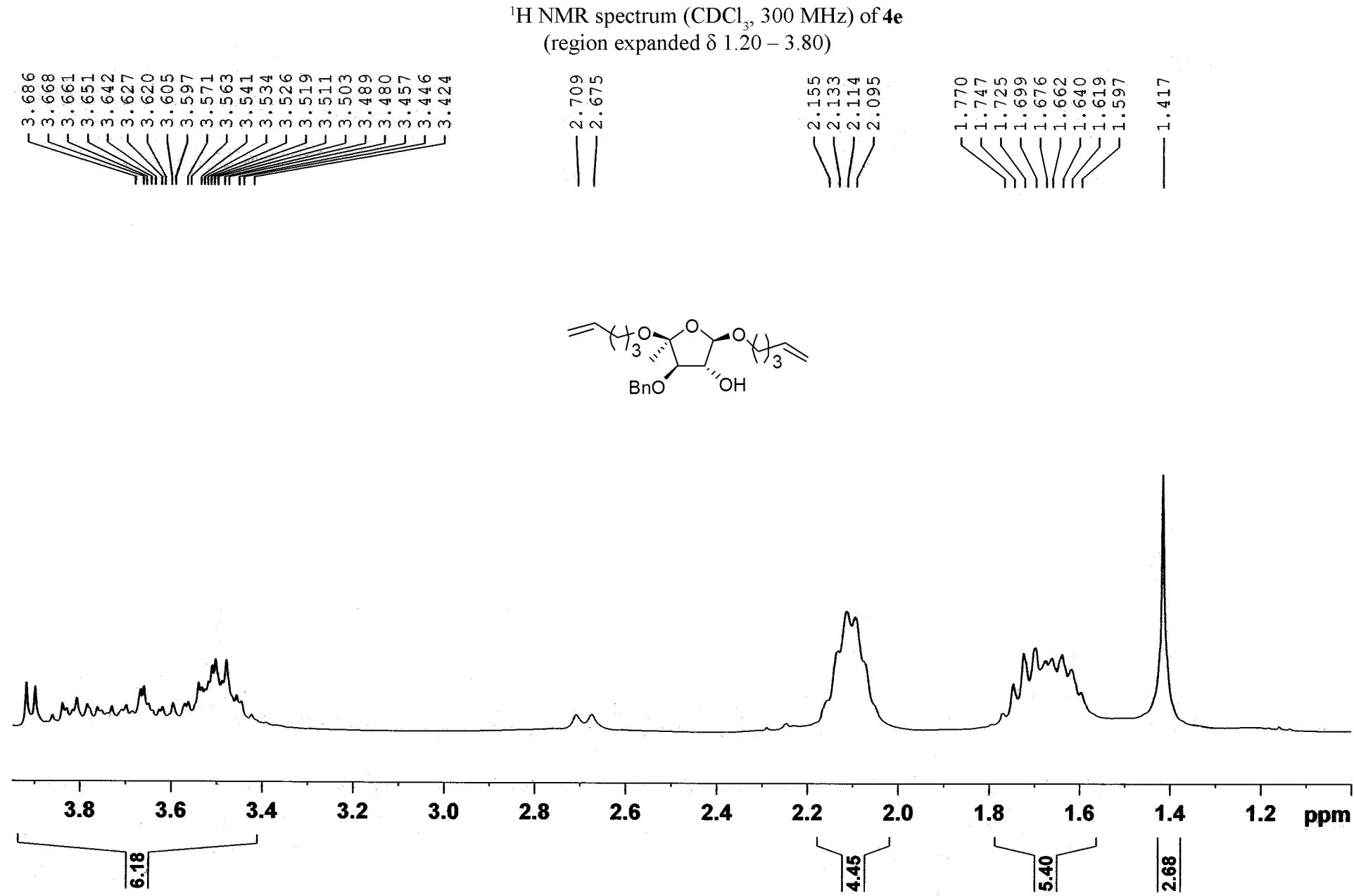
¹H NMR spectrum (CDCl_3 , 300 MHz) of **4d**



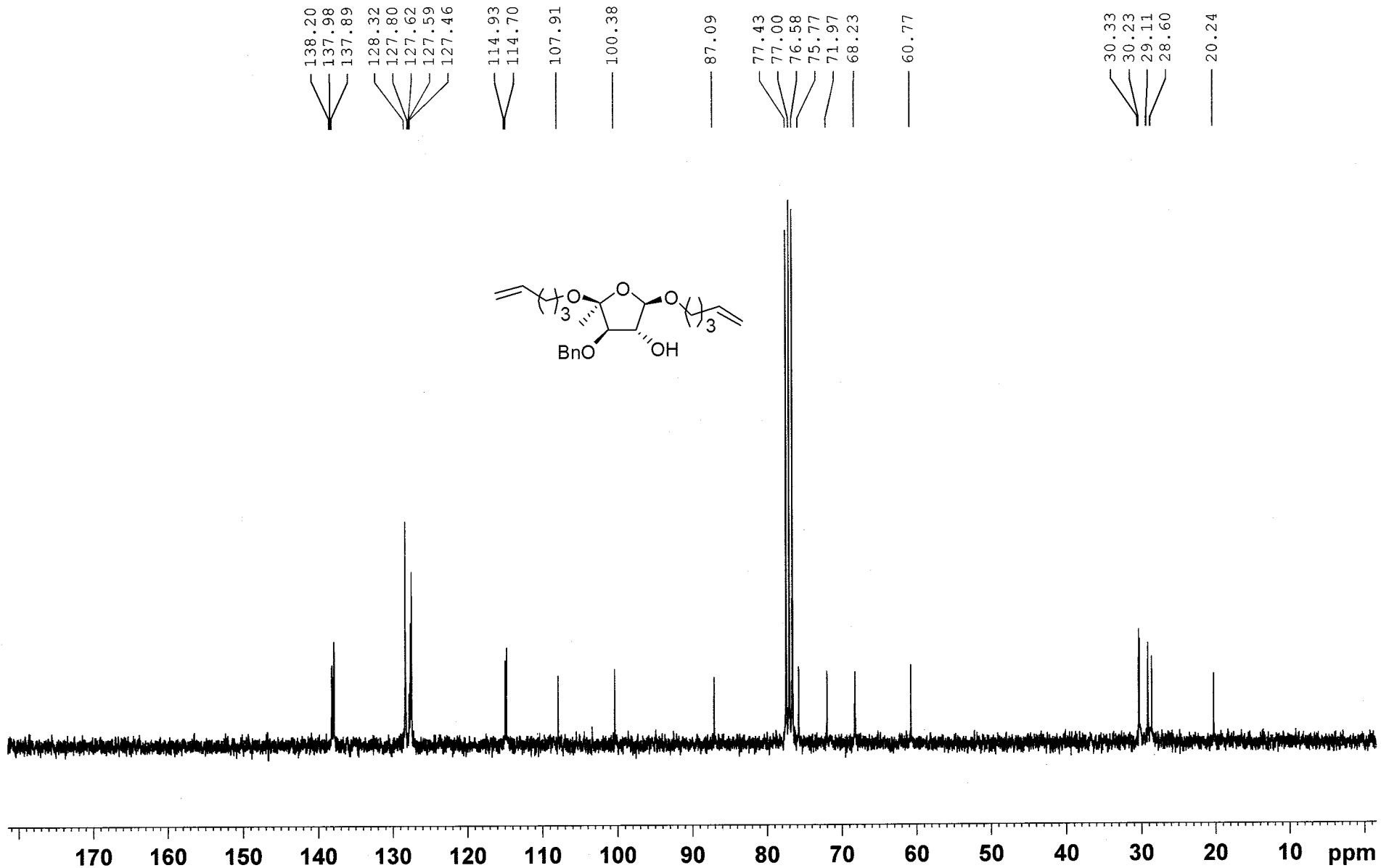


¹H NMR spectrum (CDCl_3 , 300 MHz) of **4e**

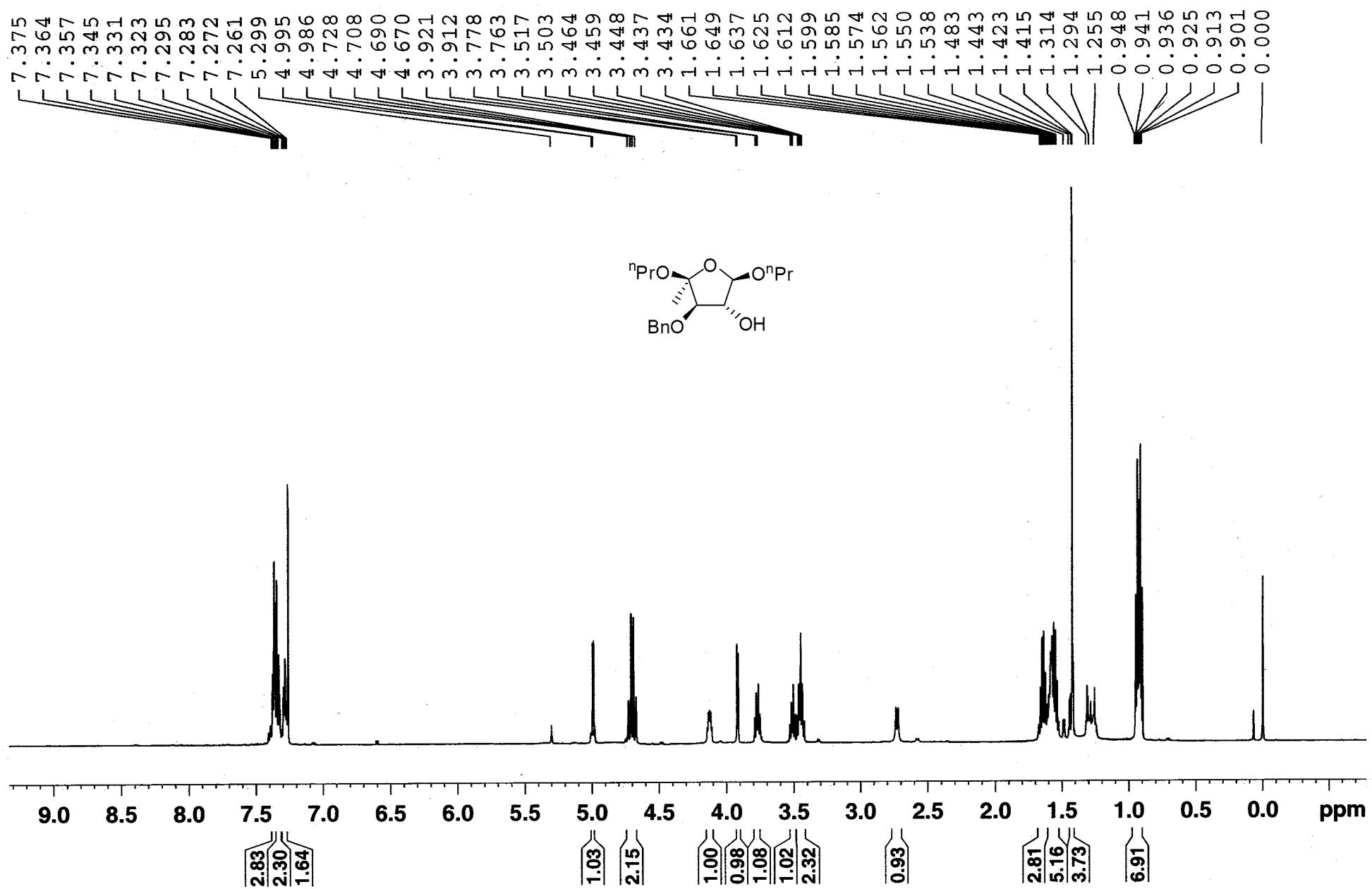


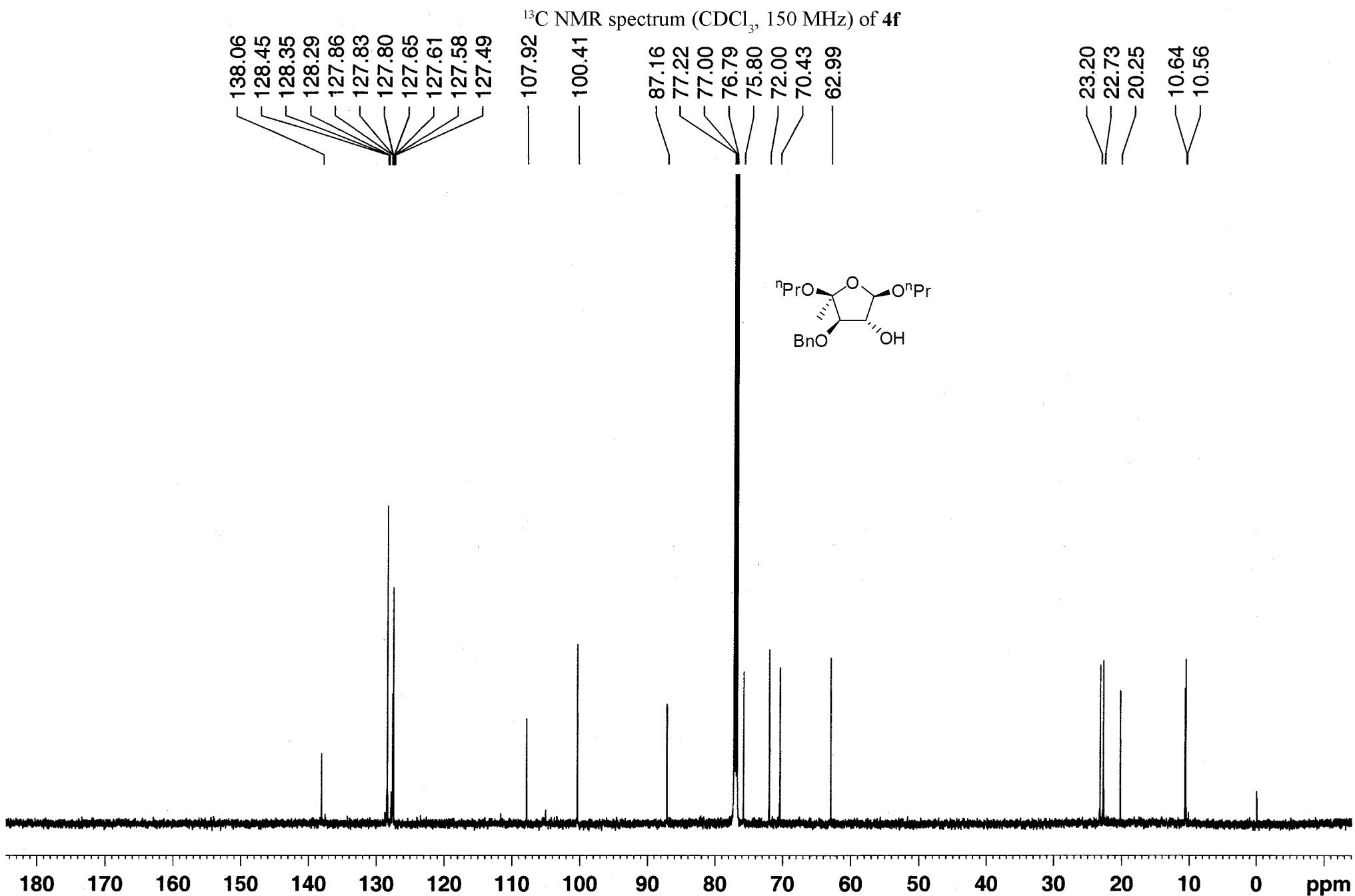


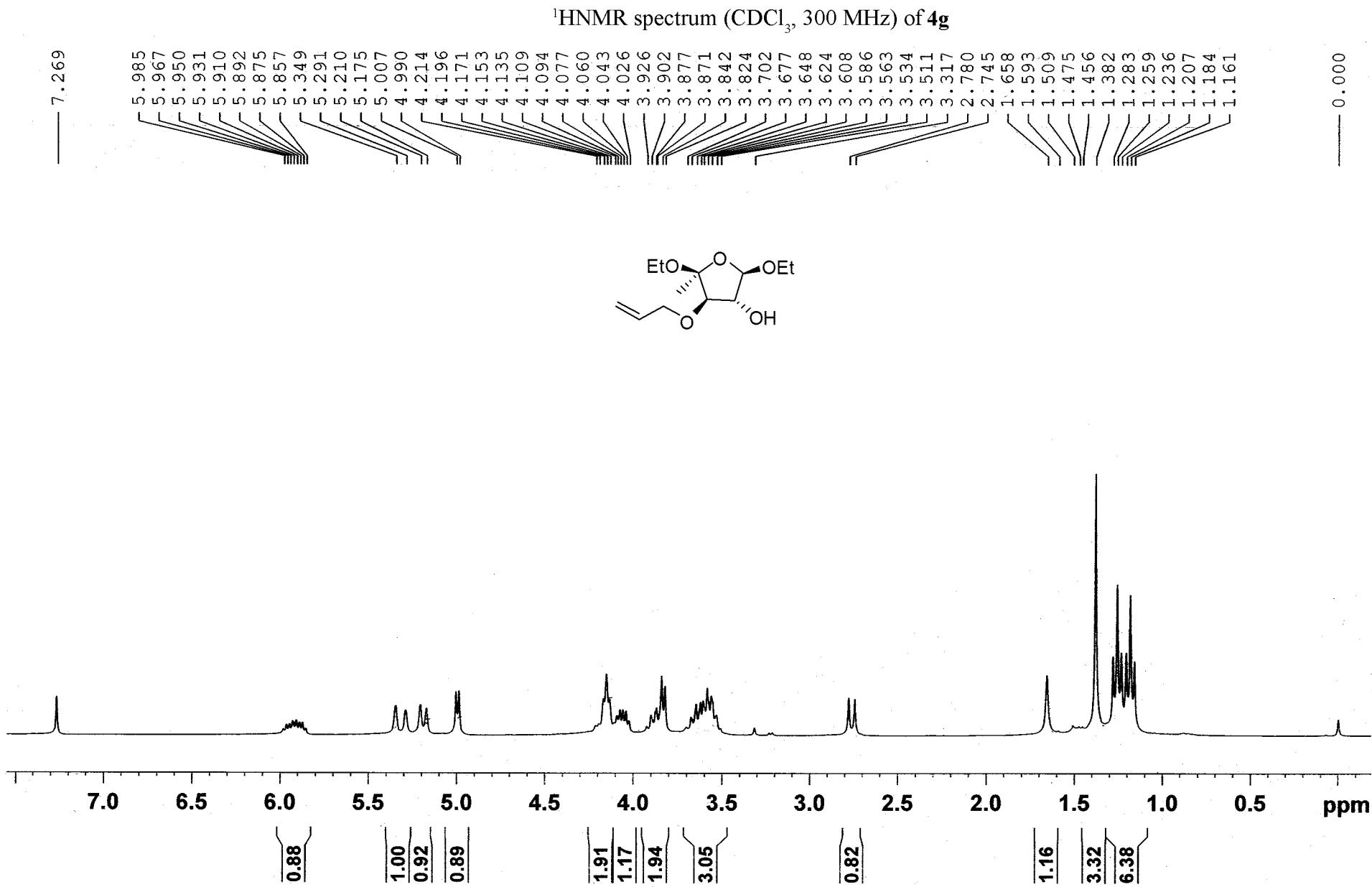
^{13}C NMR spectrum (CDCl_3 , 75 MHz) of **4e**

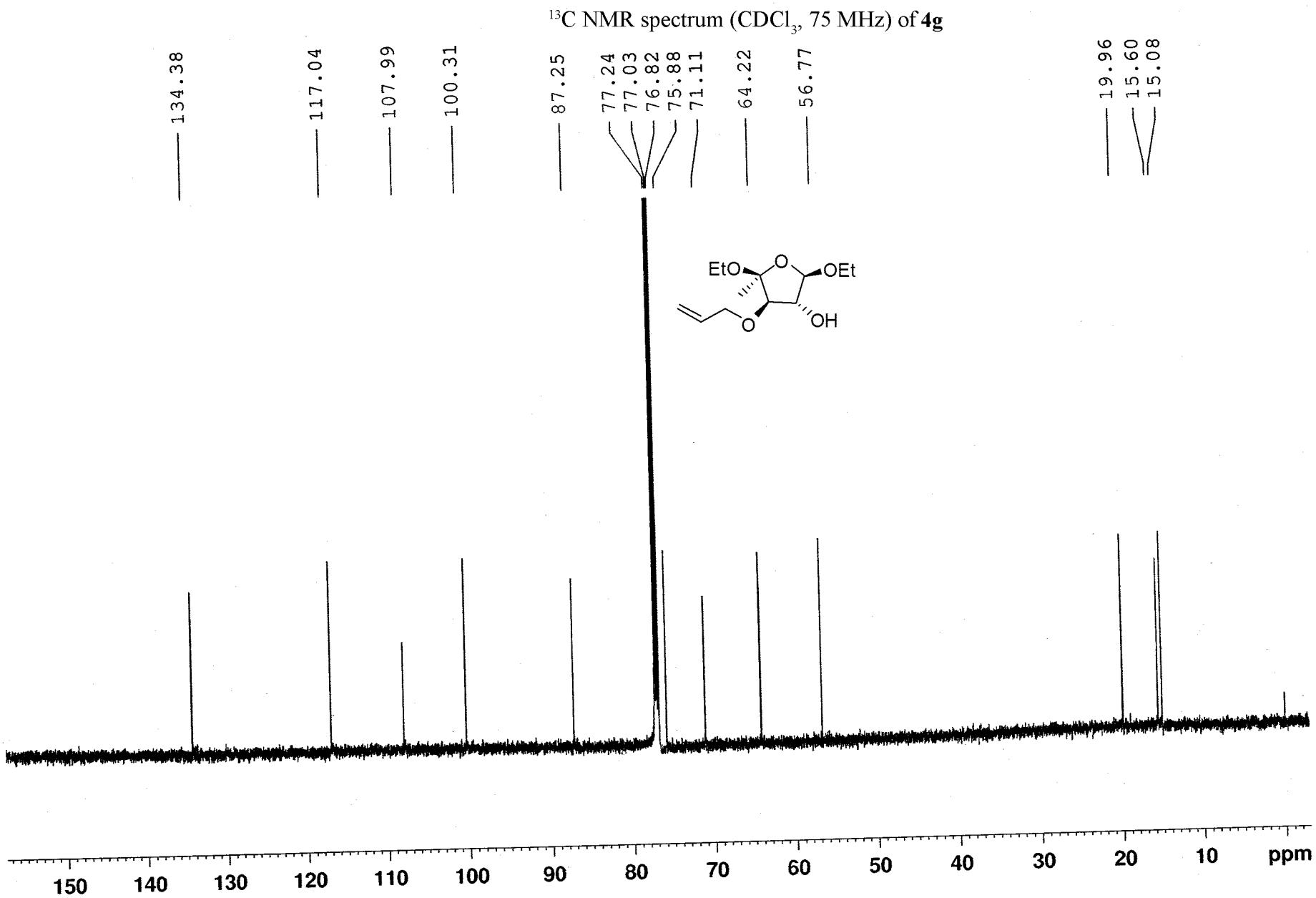


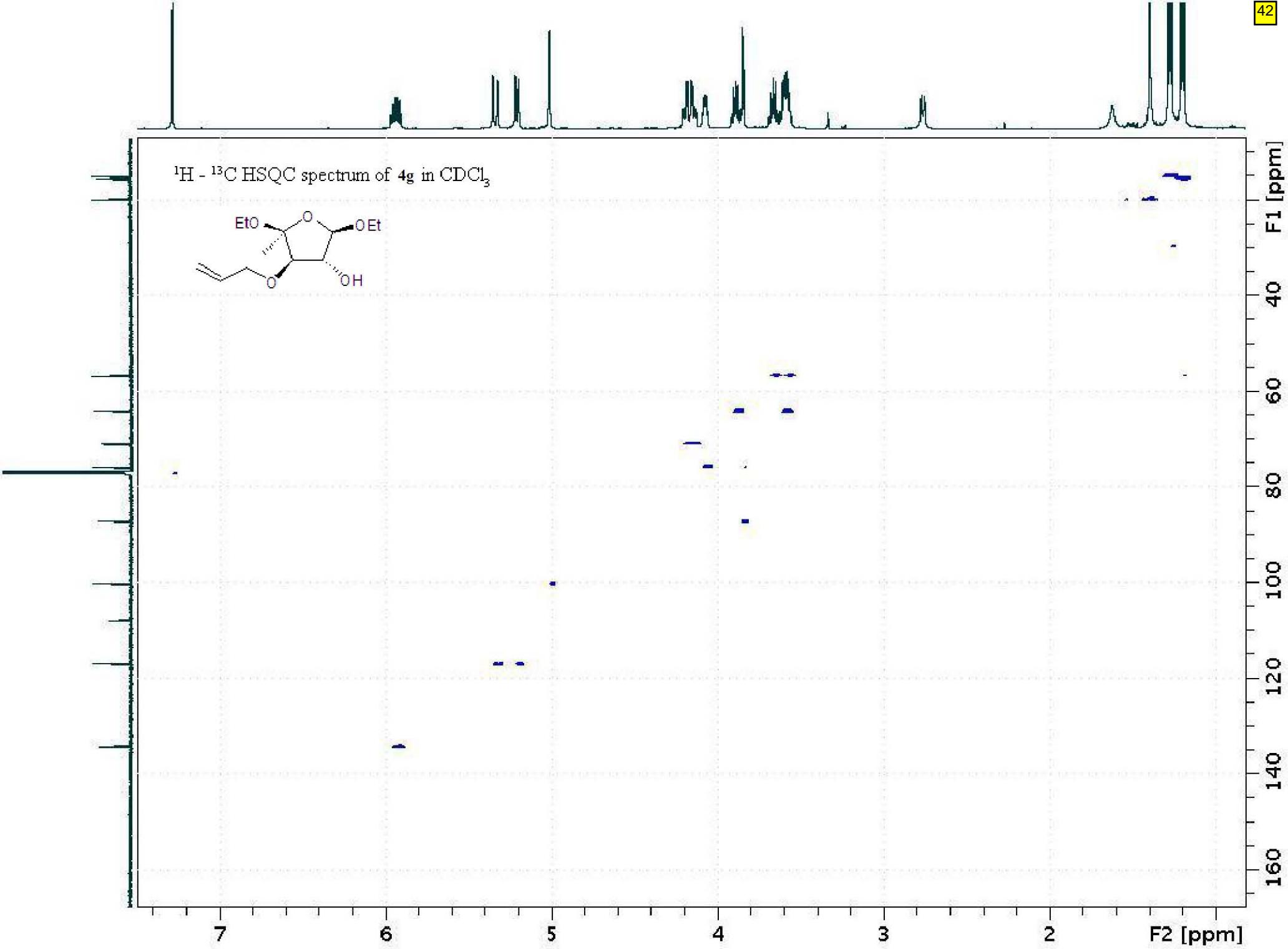
¹H NMR spectrum (CDCl_3 , 600 MHz) of **4f**

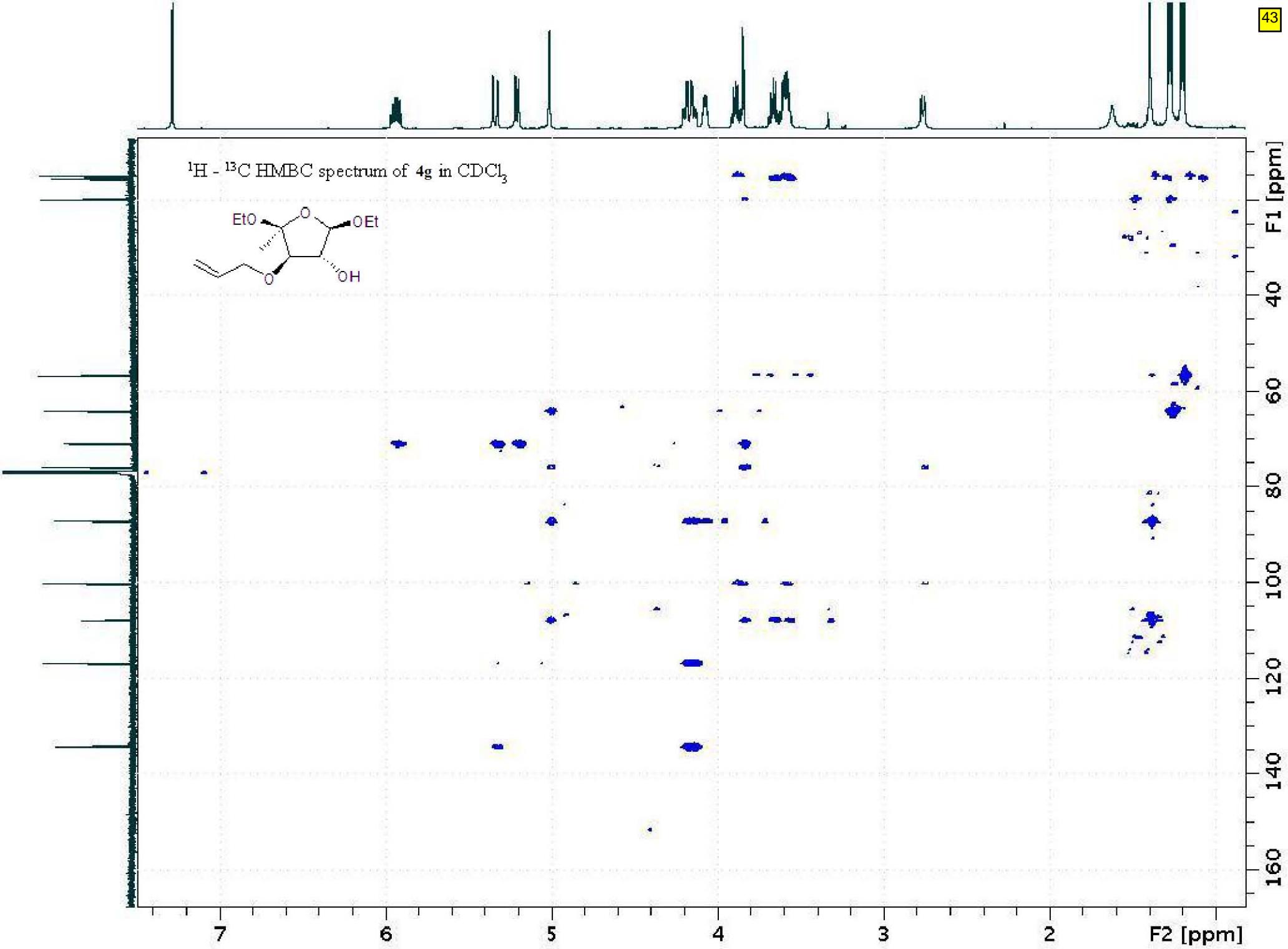




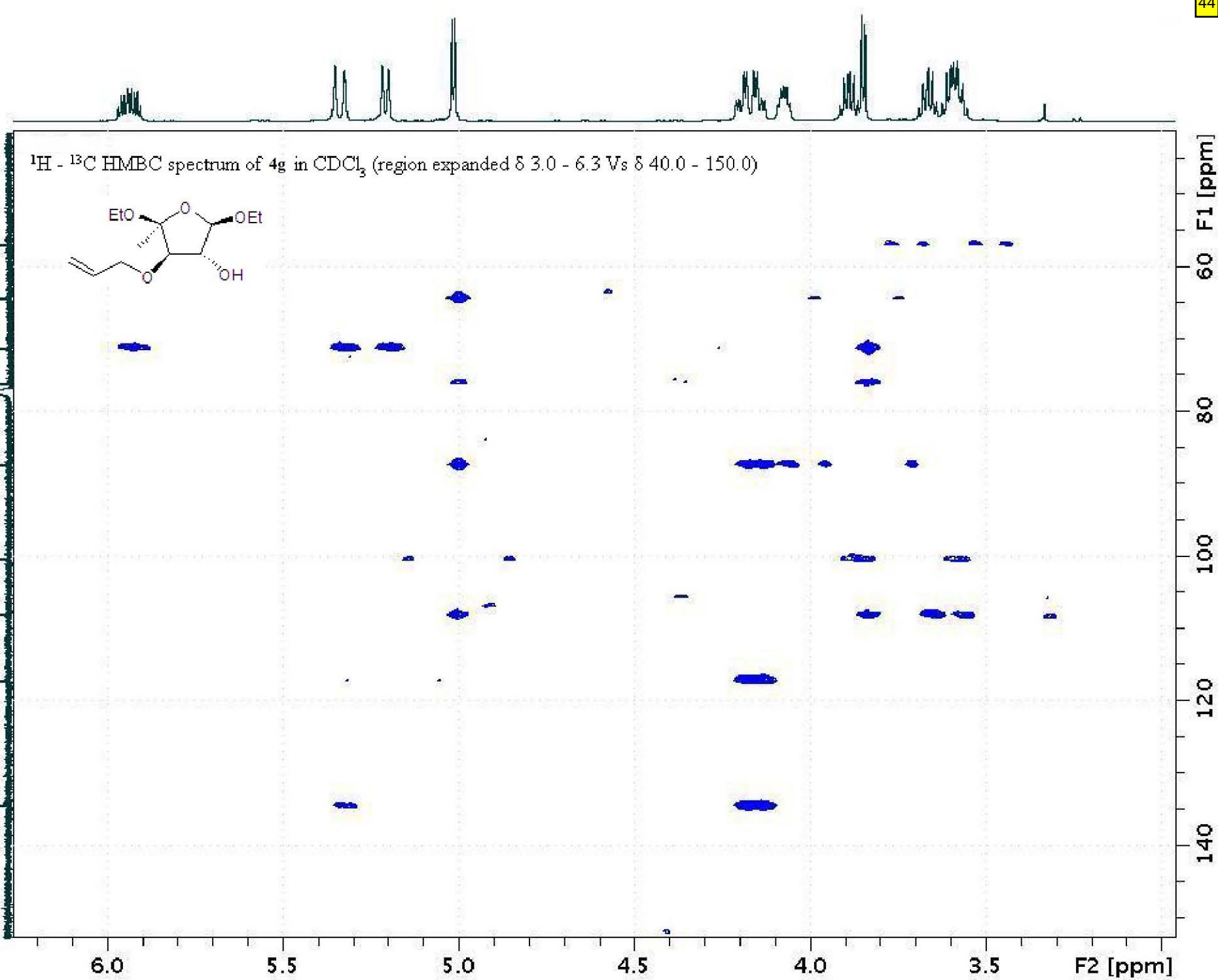
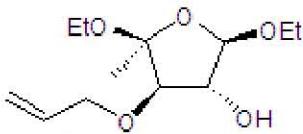


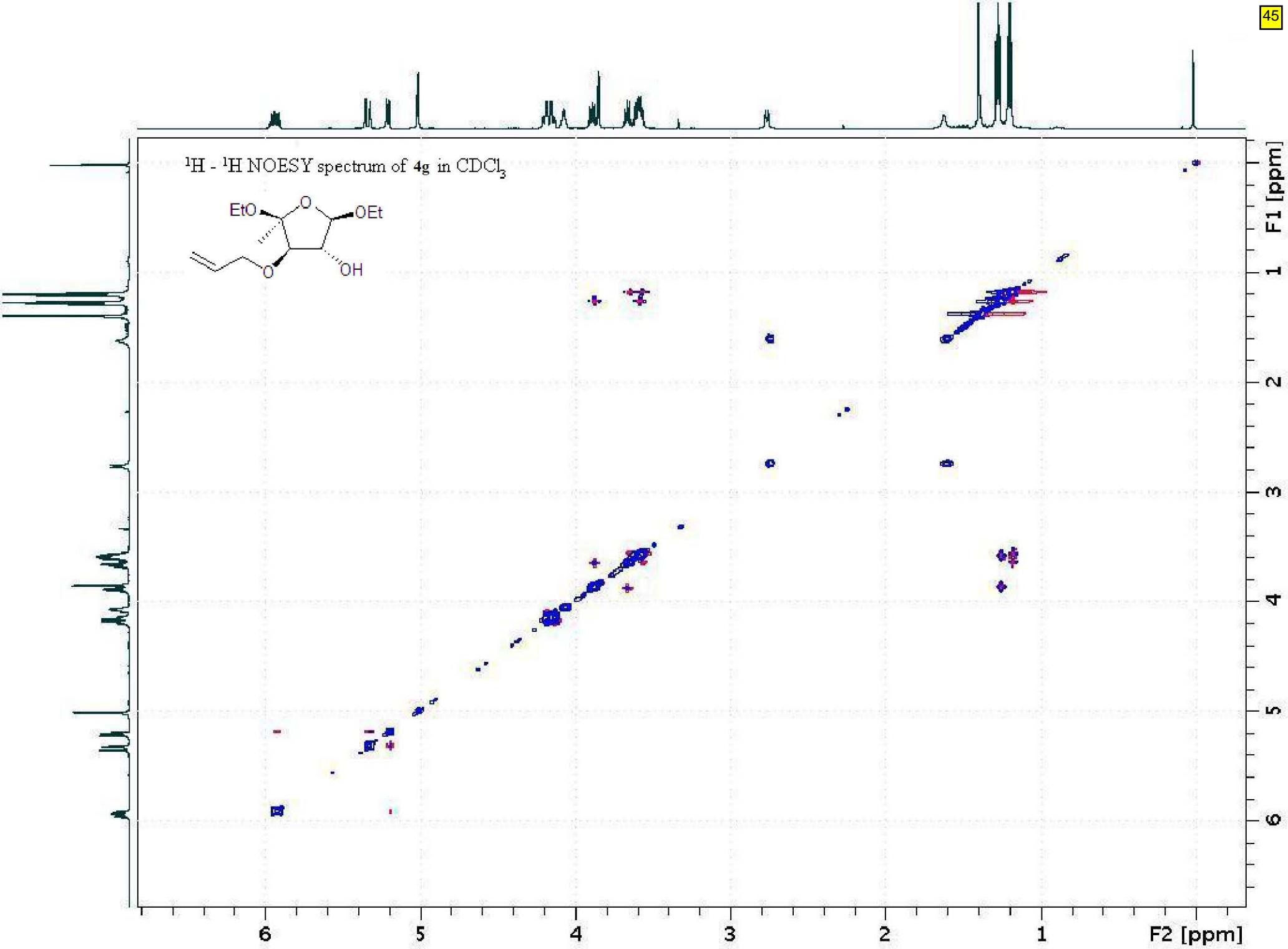




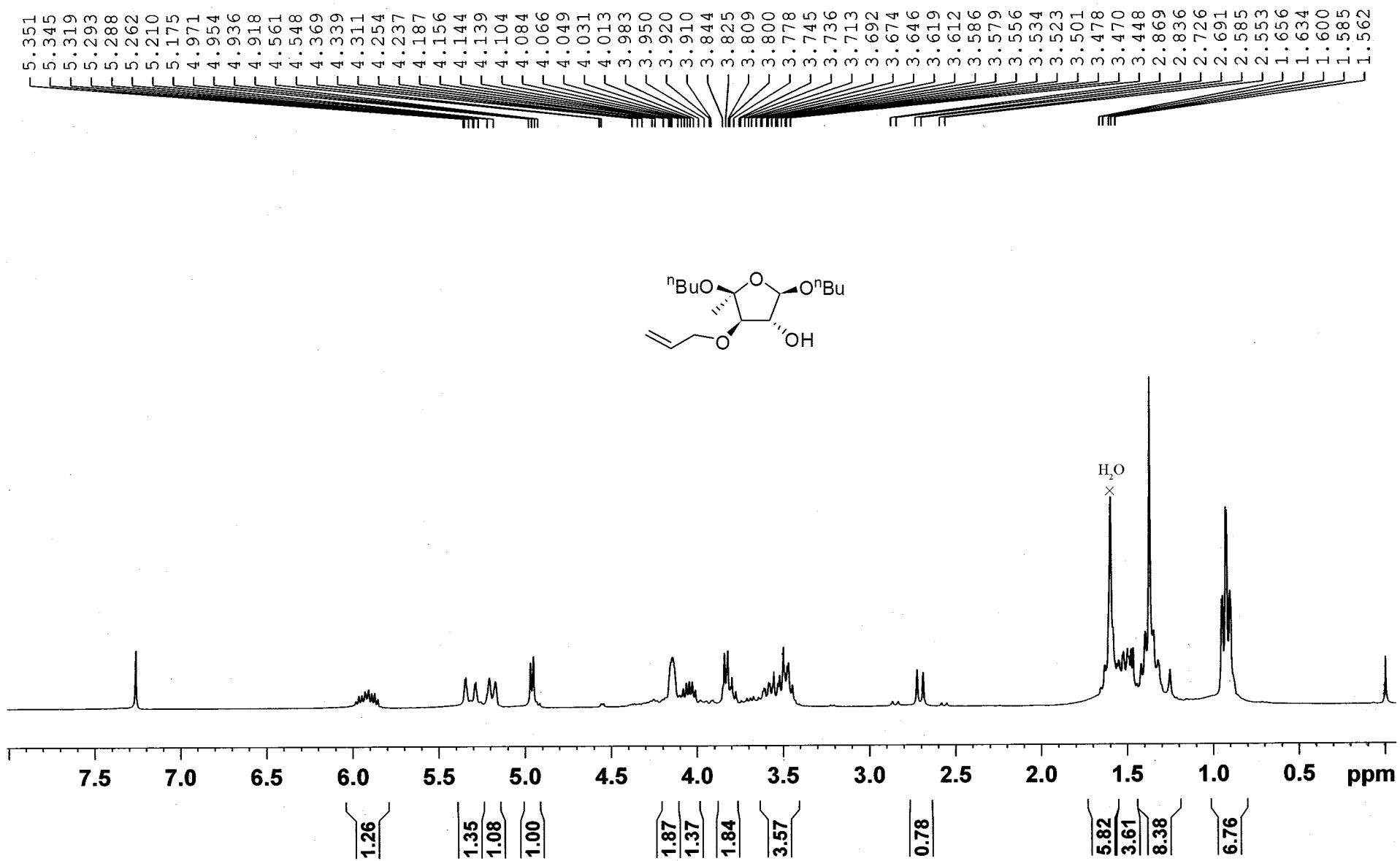


^1H - ^{13}C HMBC spectrum of 4g in CDCl_3 (region expanded δ 3.0 - 6.3 Vs δ 40.0 - 150.0)

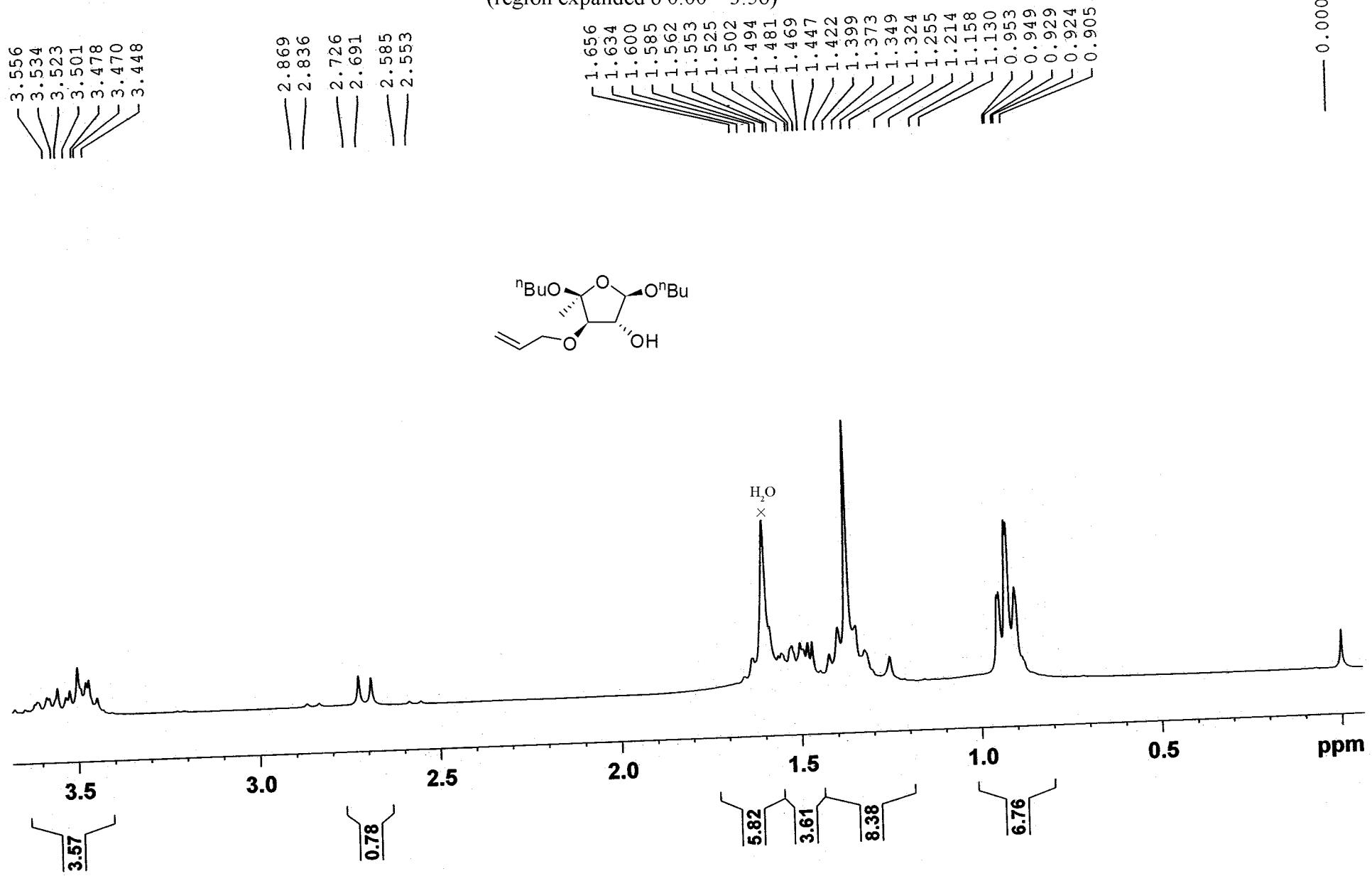




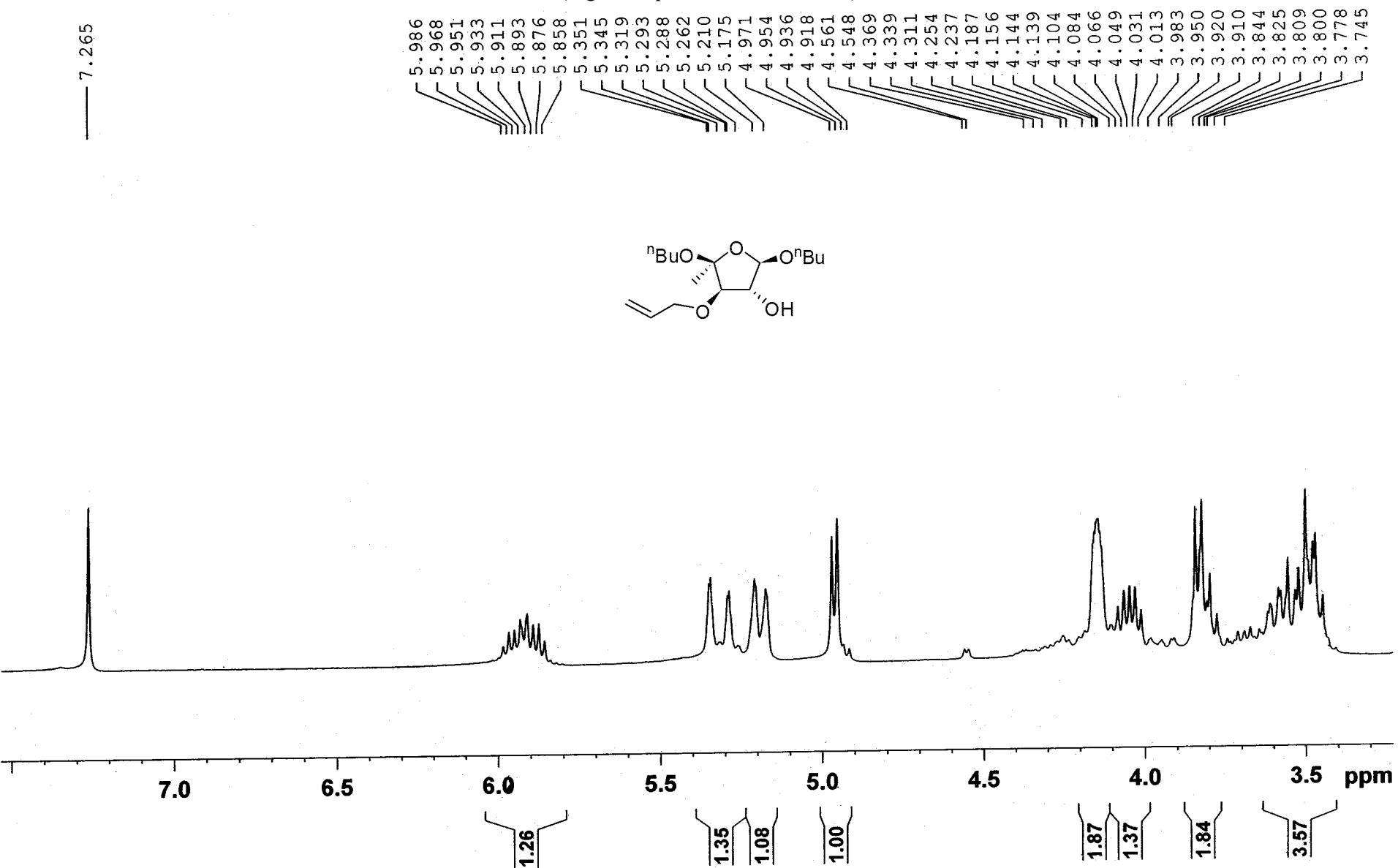
¹H NMR spectrum (CDCl_3 , 300 MHz) of **4h**

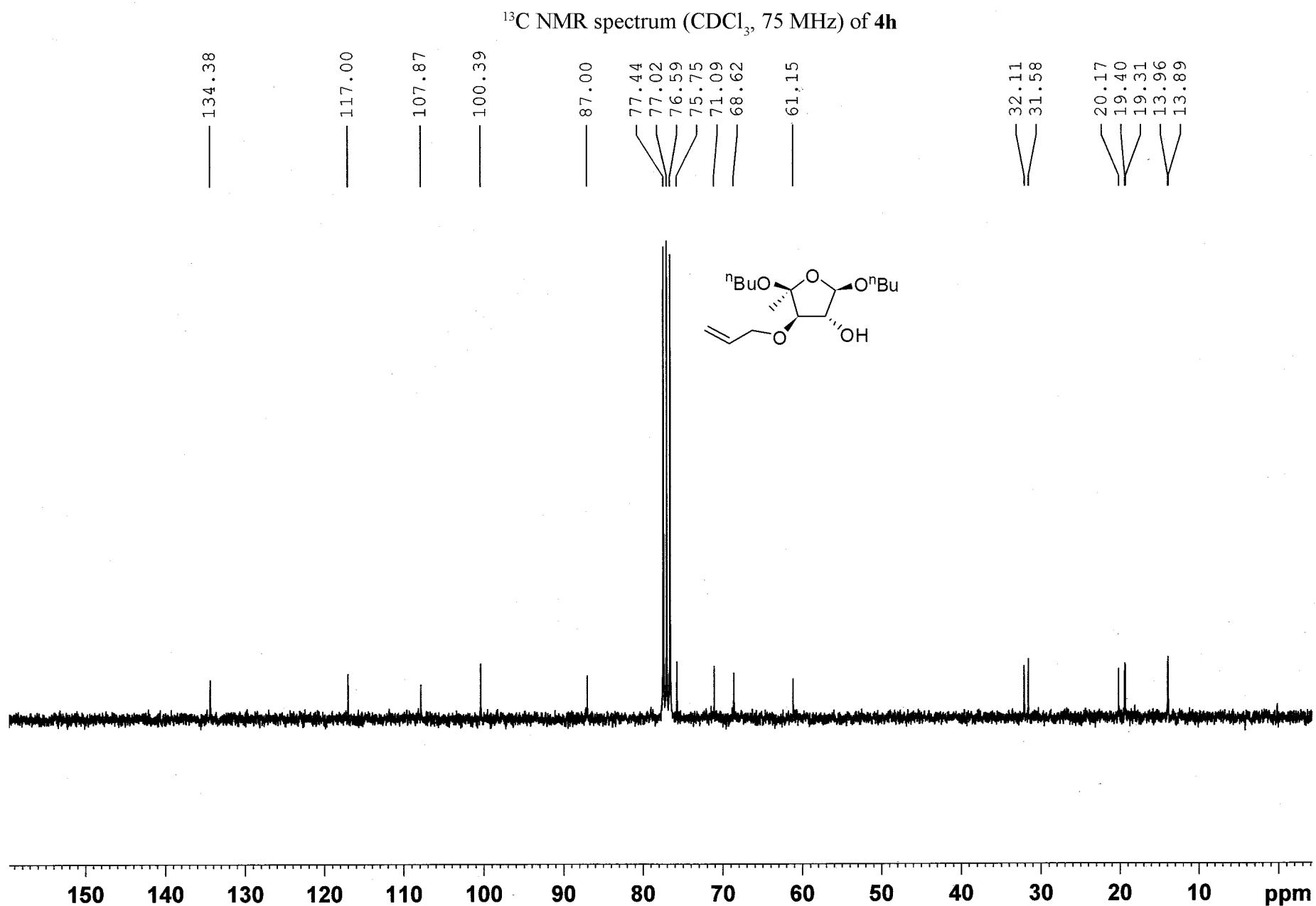


¹H NMR spectrum (CDCl_3 , 300 MHz) of **4h**
(region expanded δ 0.00 – 3.56)

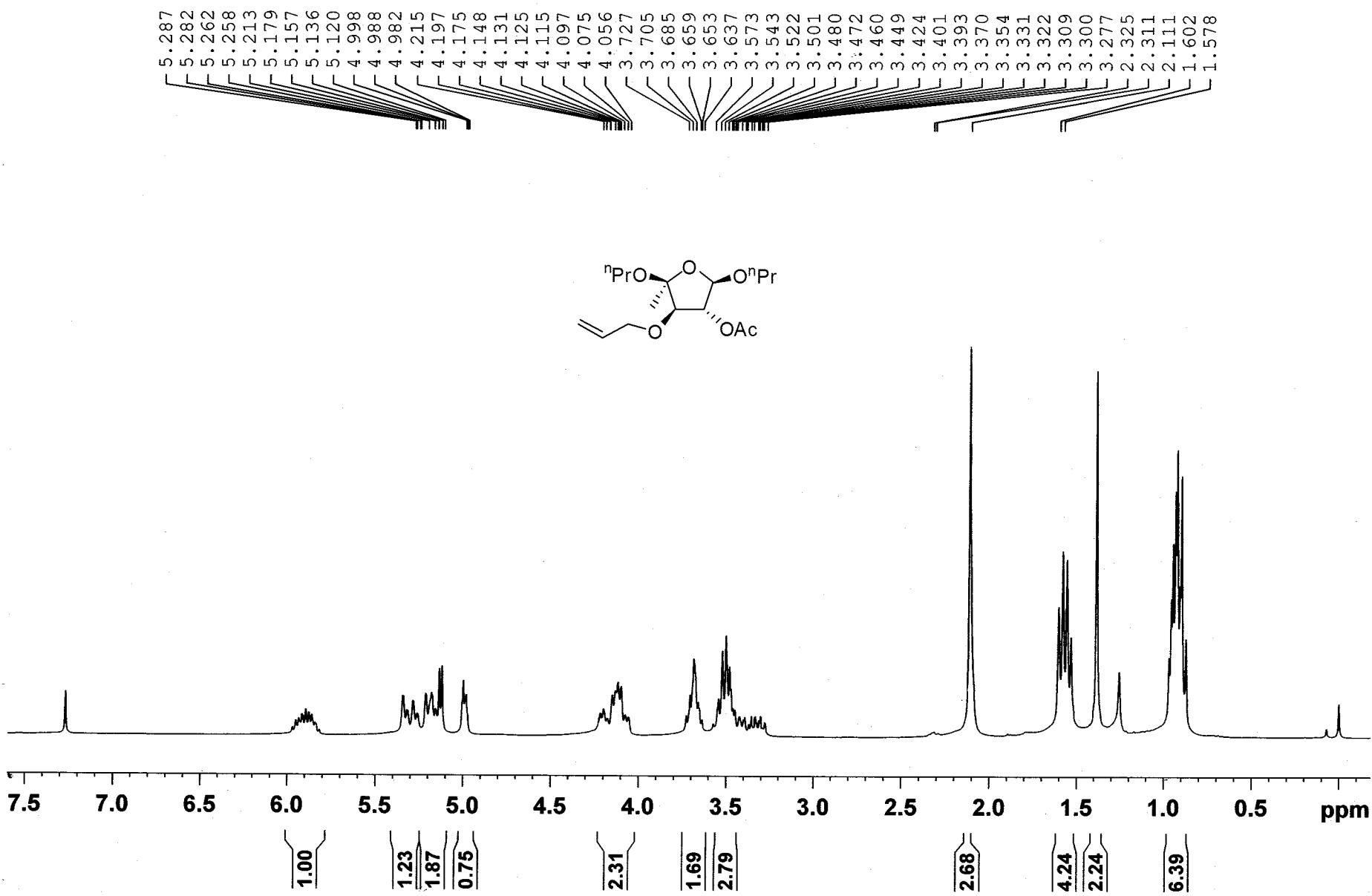


¹H NMR spectrum (CDCl_3 , 300 MHz) of **4h**
(region expanded δ 3.50 – 7.50)

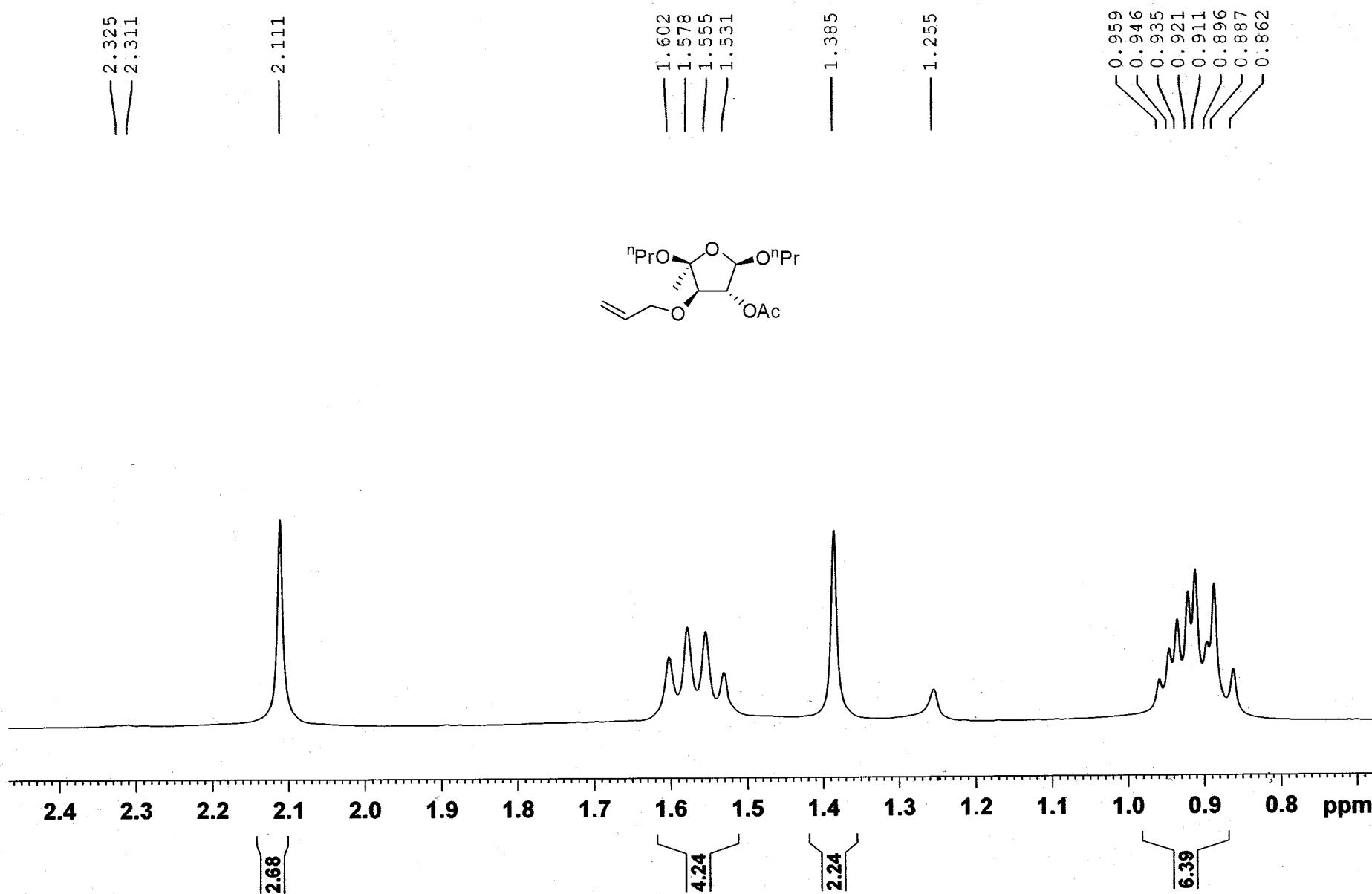




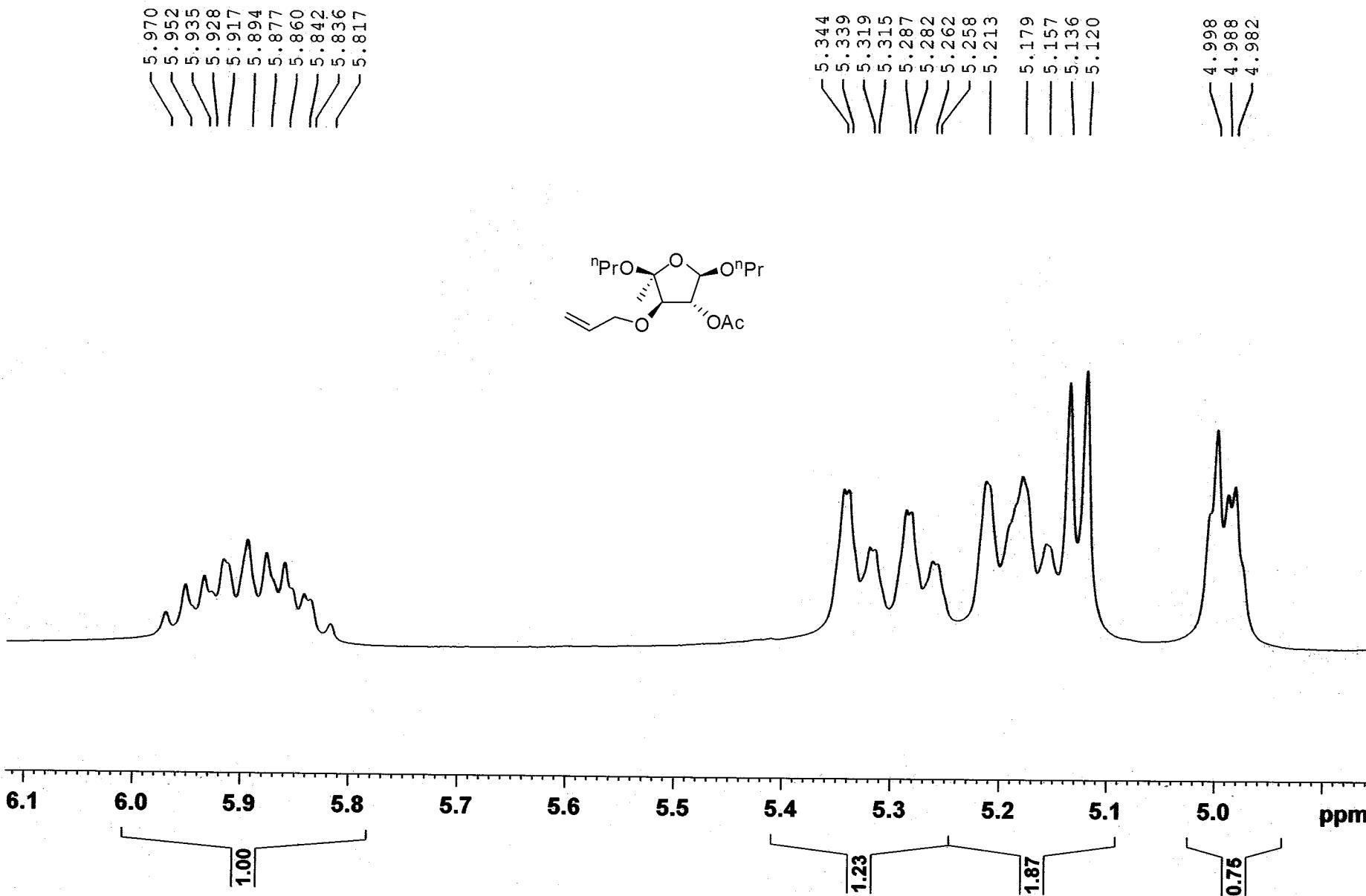
¹H NMR spectrum (CDCl_3 , 300 MHz) of **4i**



¹H NMR spectrum (CDCl_3 , 300 MHz) of **4i**
(region expanded δ 0.70 – 2.40)



¹H NMR spectrum (CDCl_3 , 300 MHz) of **4i**
(region expanded δ 4.50 – 6.10)



¹³C NMR spectrum (CDCl_3 , 75 MHz) of **4i**

