

Supporting Information
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Supporting information

Tris(pentafluorophenyl)borane-Catalysed Stereoselective C-Glycosylation of Glycals: A Facile Synthesis of Allyl and Alkynyl glycosides

Anand Gaurav,^{a,b} Zanjila Azeem,^{a,b} and Pintu Kumar Mandal^{a,b,*}

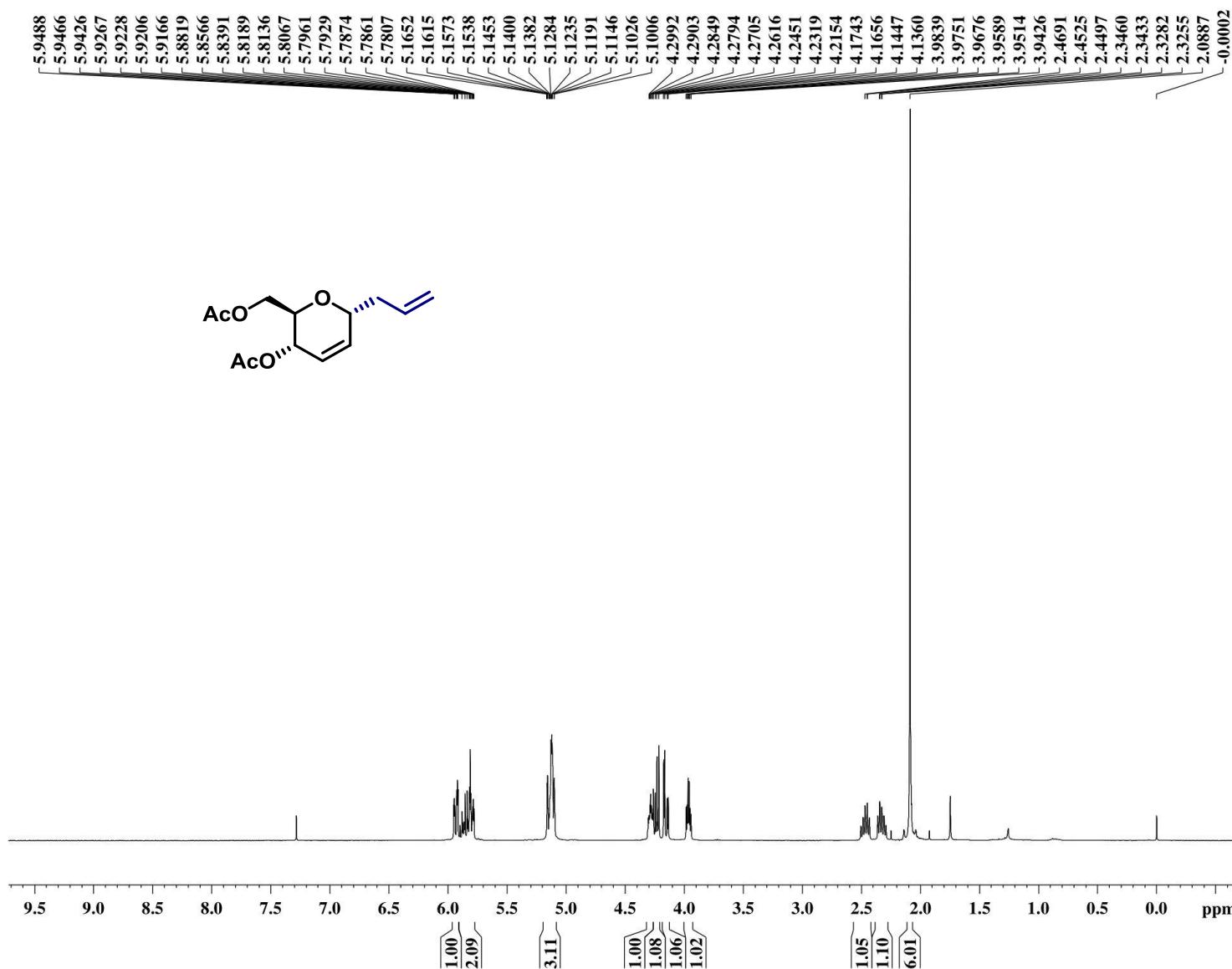
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^bAcademy of Scientific and Innovative Research (AcSIR), Ghaziabad- 201002, India

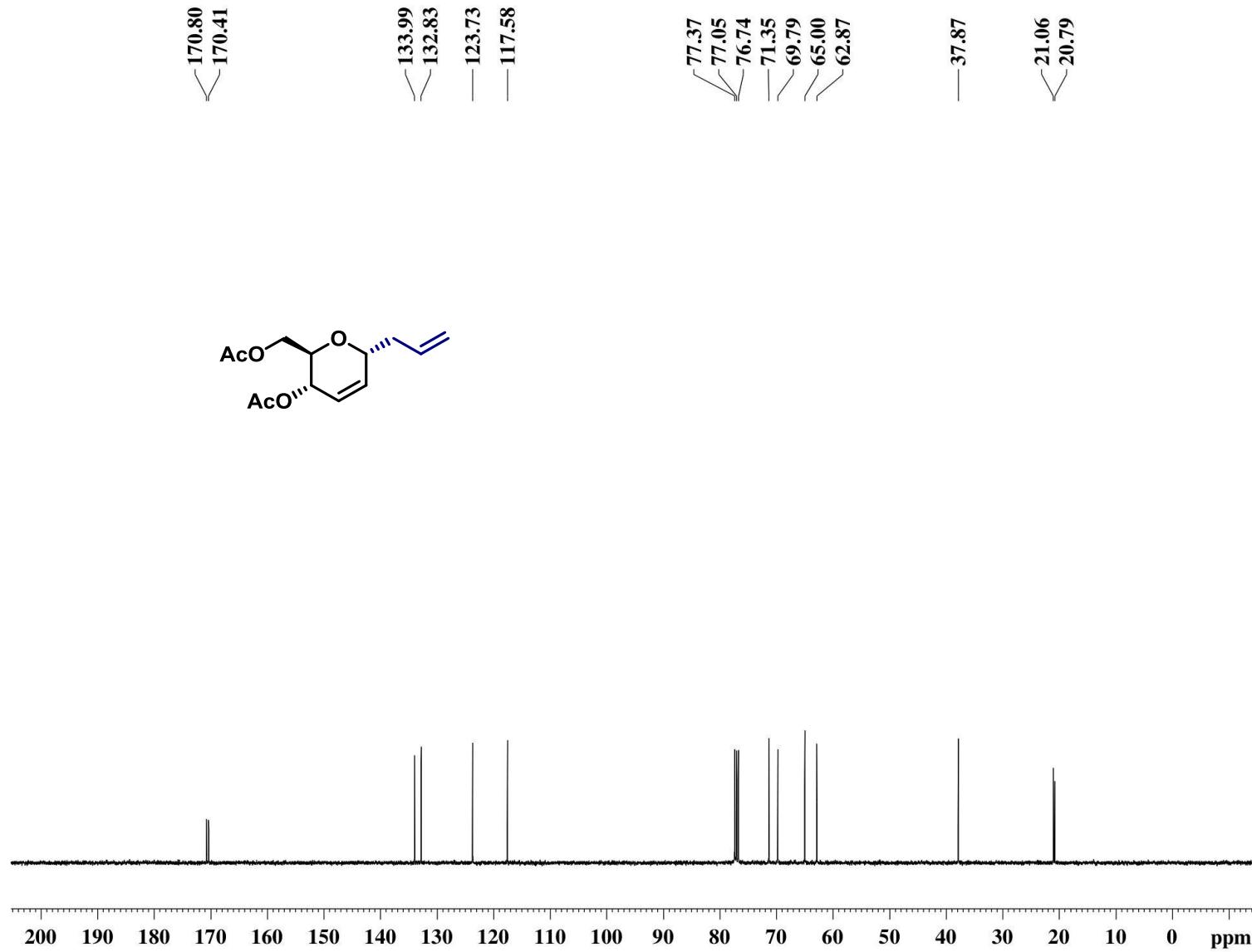
*Corresponding author; Email:pintuchem06@gmail.com / pk.mandal@cdri.res.in

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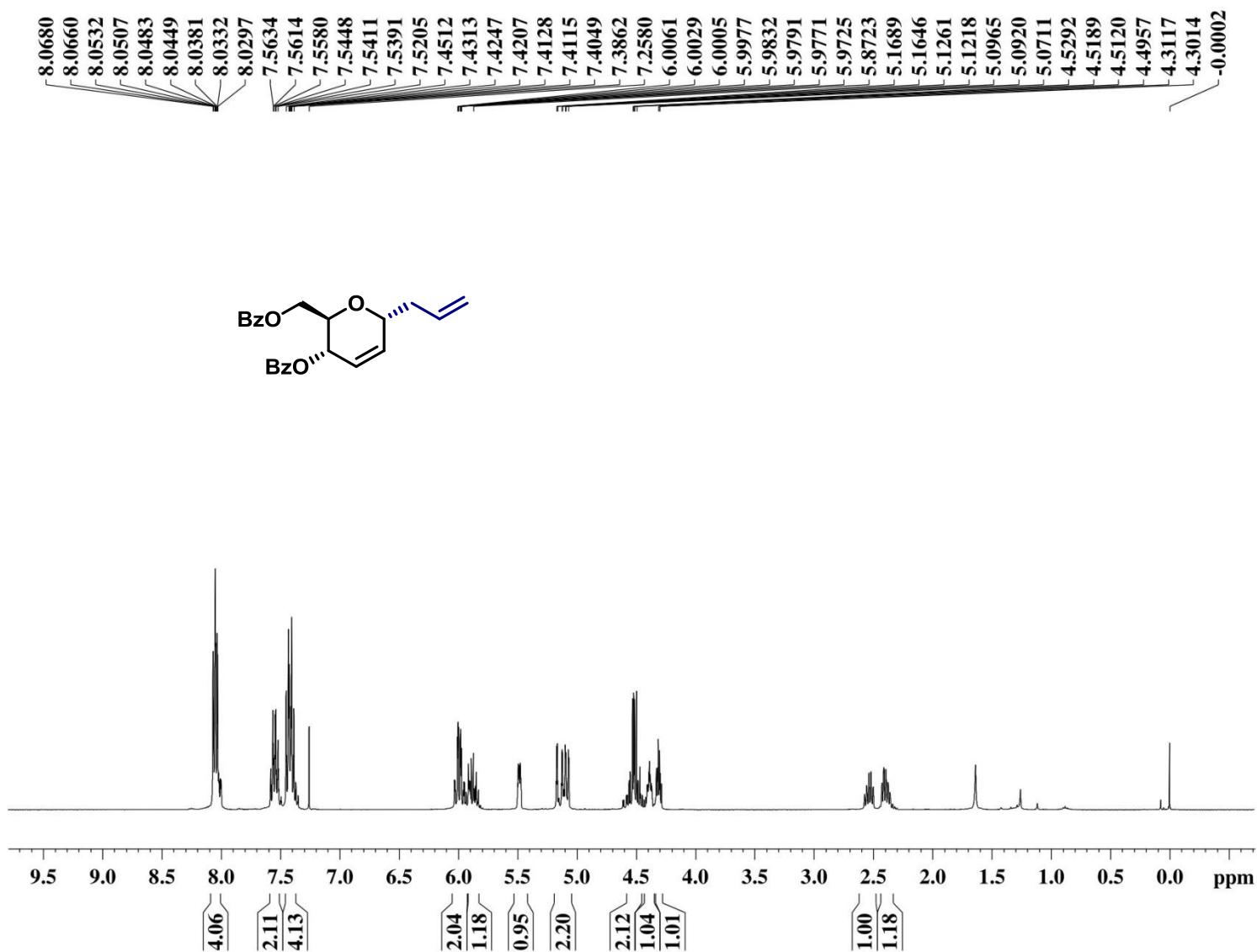
^1H , ^{13}C , DEPT 135, ^{19}F NMR spectra and 2D HSQC/NOESY NMR spectra of 3a-3l & 5a-5g.....S3-S56

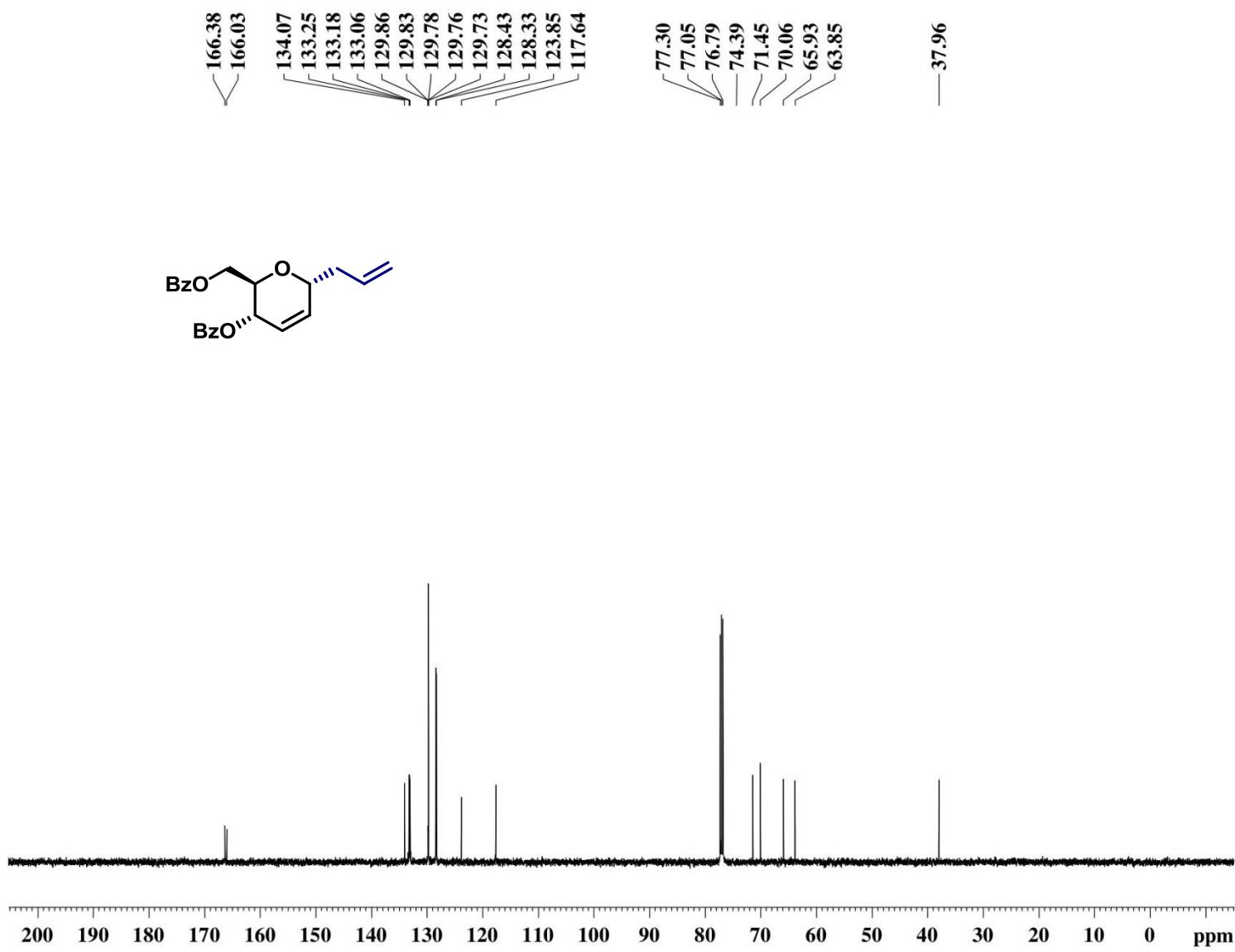


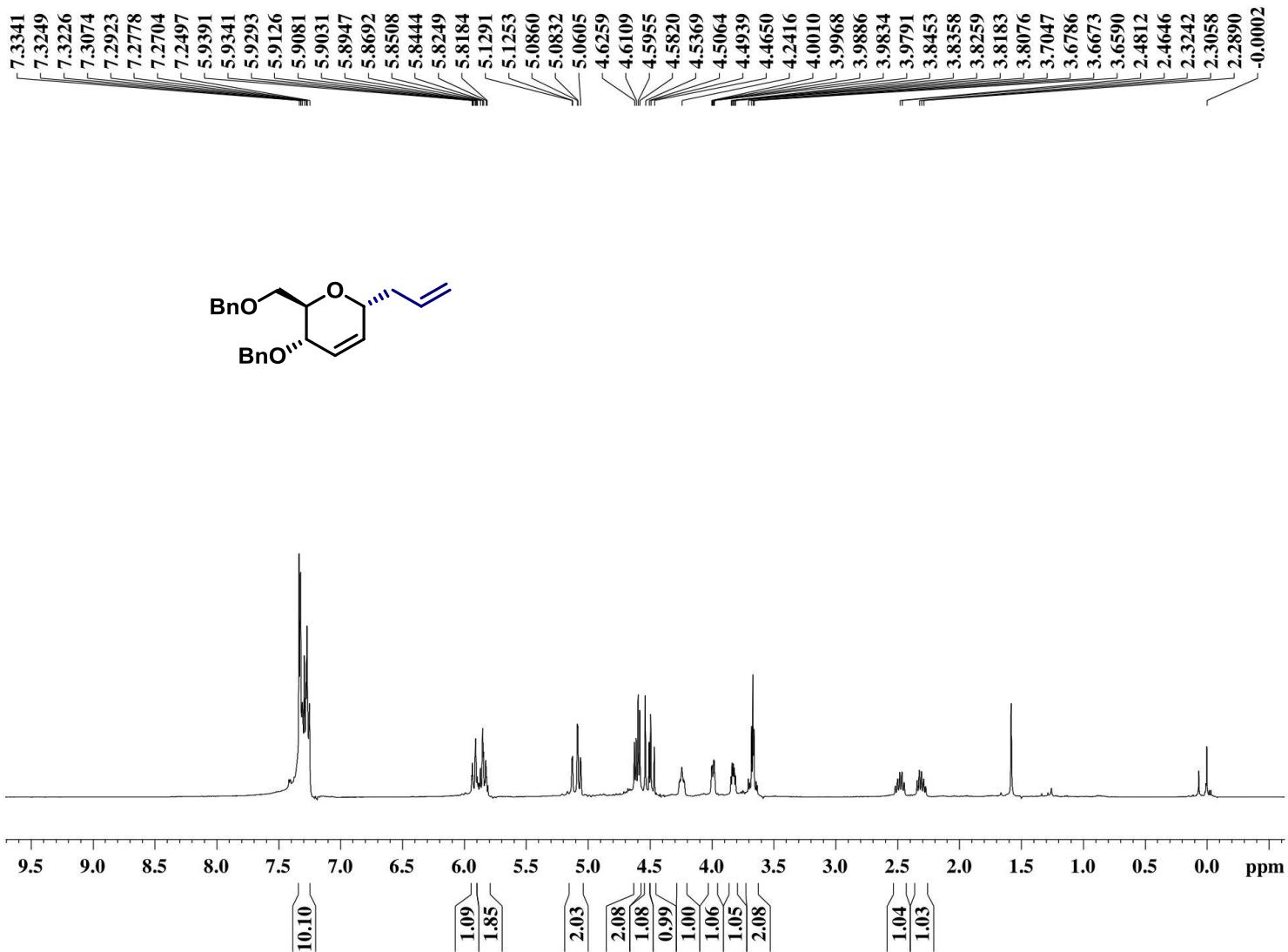
¹H NMR spectrum of **3a** (400 MHz, CDCl₃)



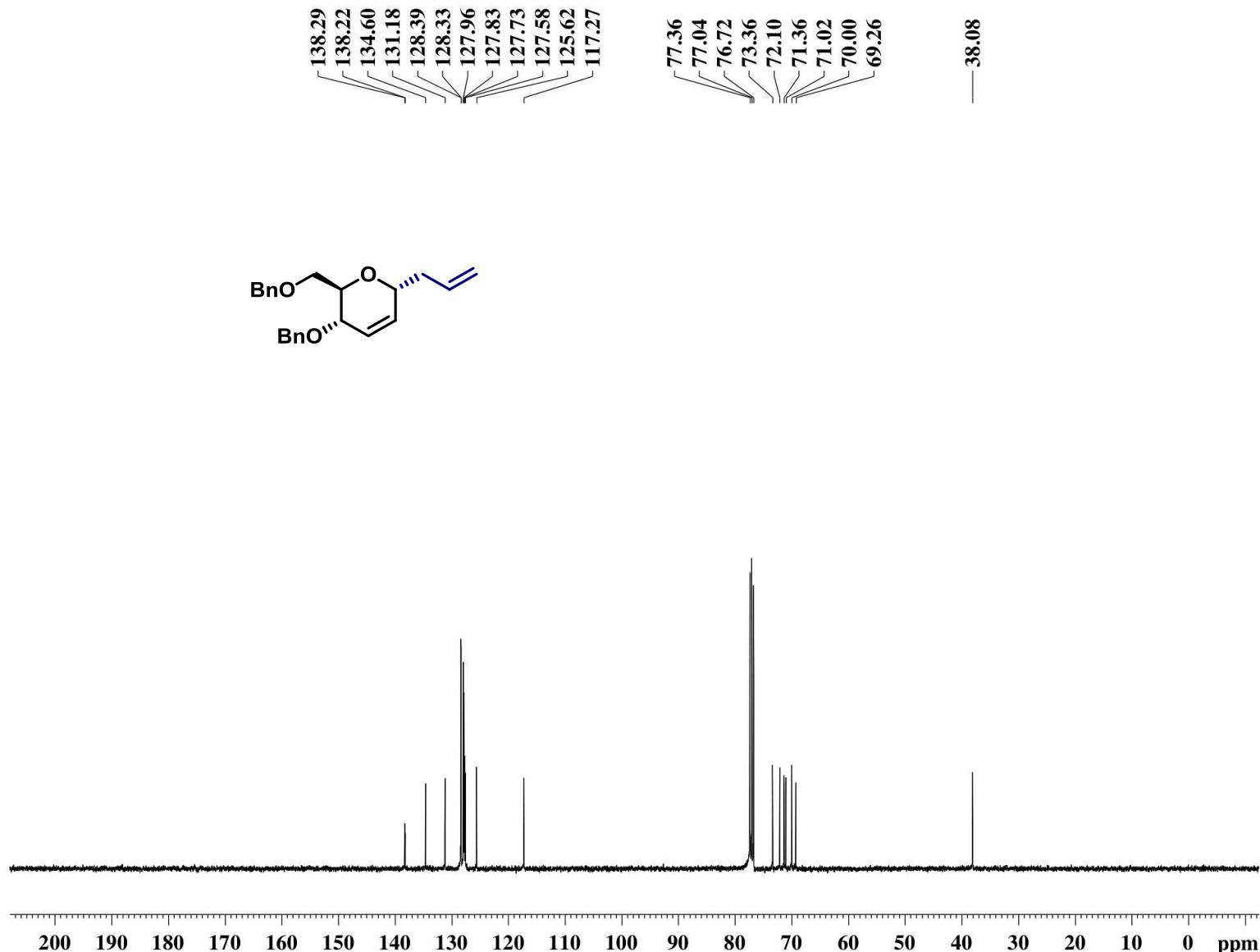
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **3a** (100 MHz, CDCl_3)



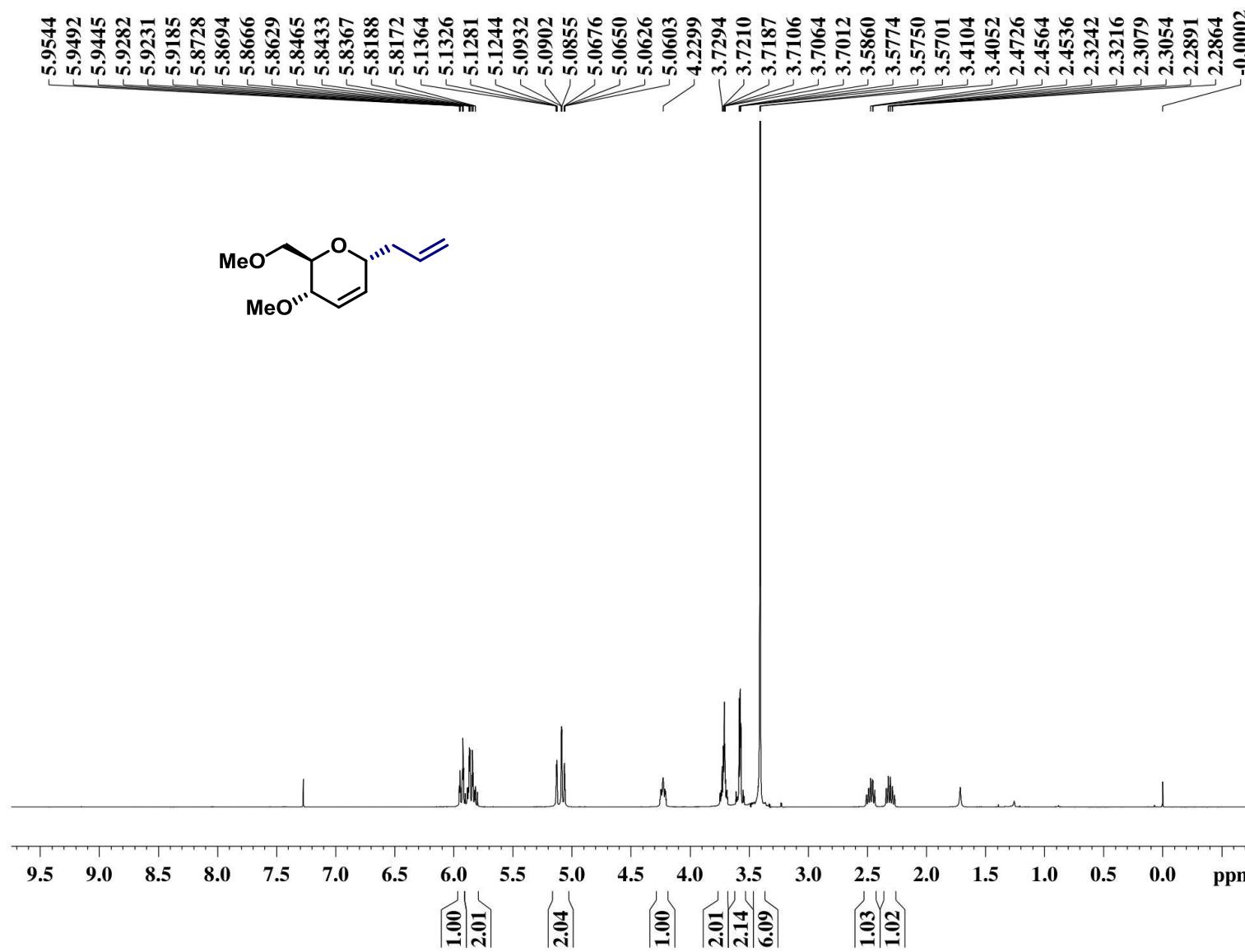


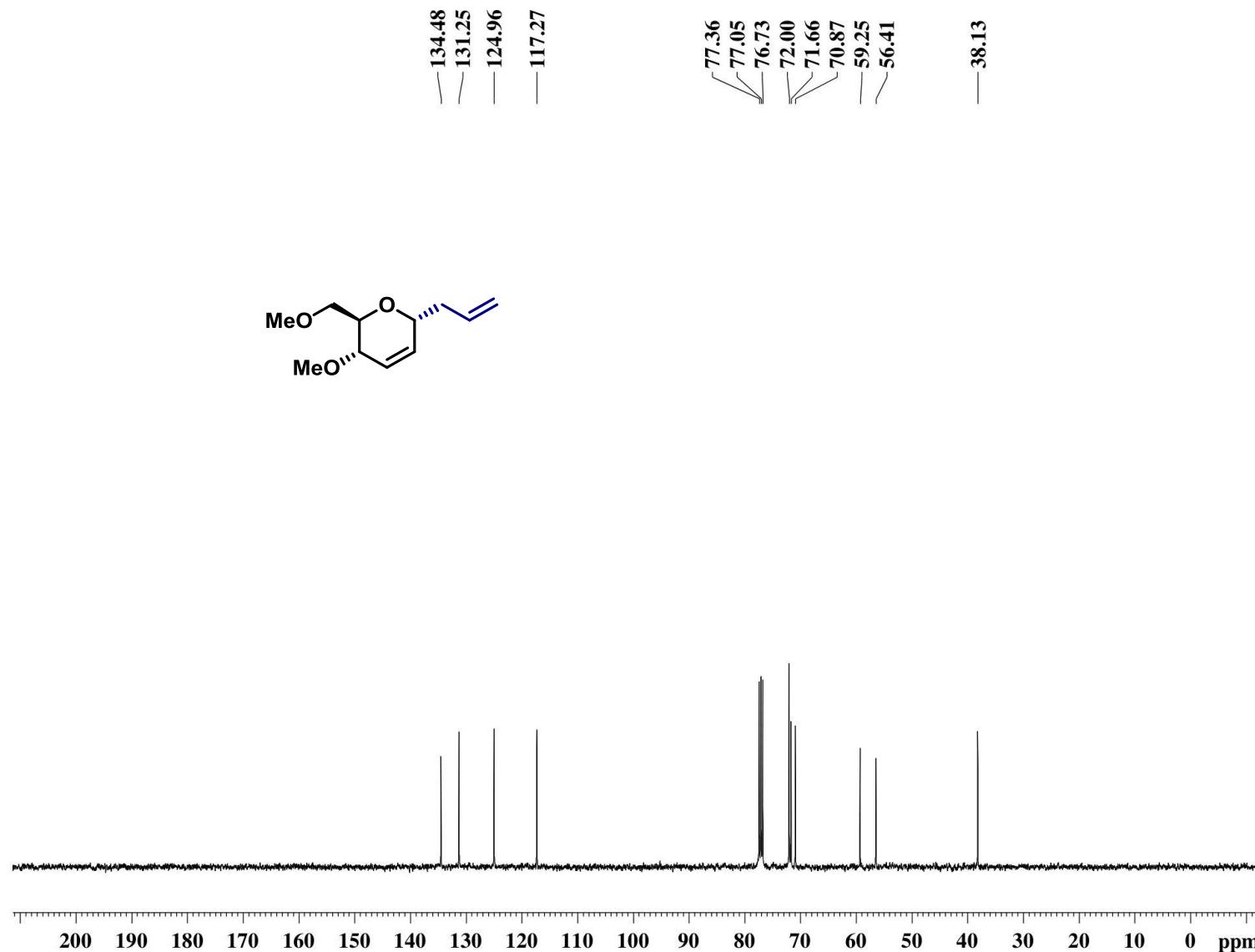


¹H NMR spectrum of **3c** (400 MHz, CDCl_3)

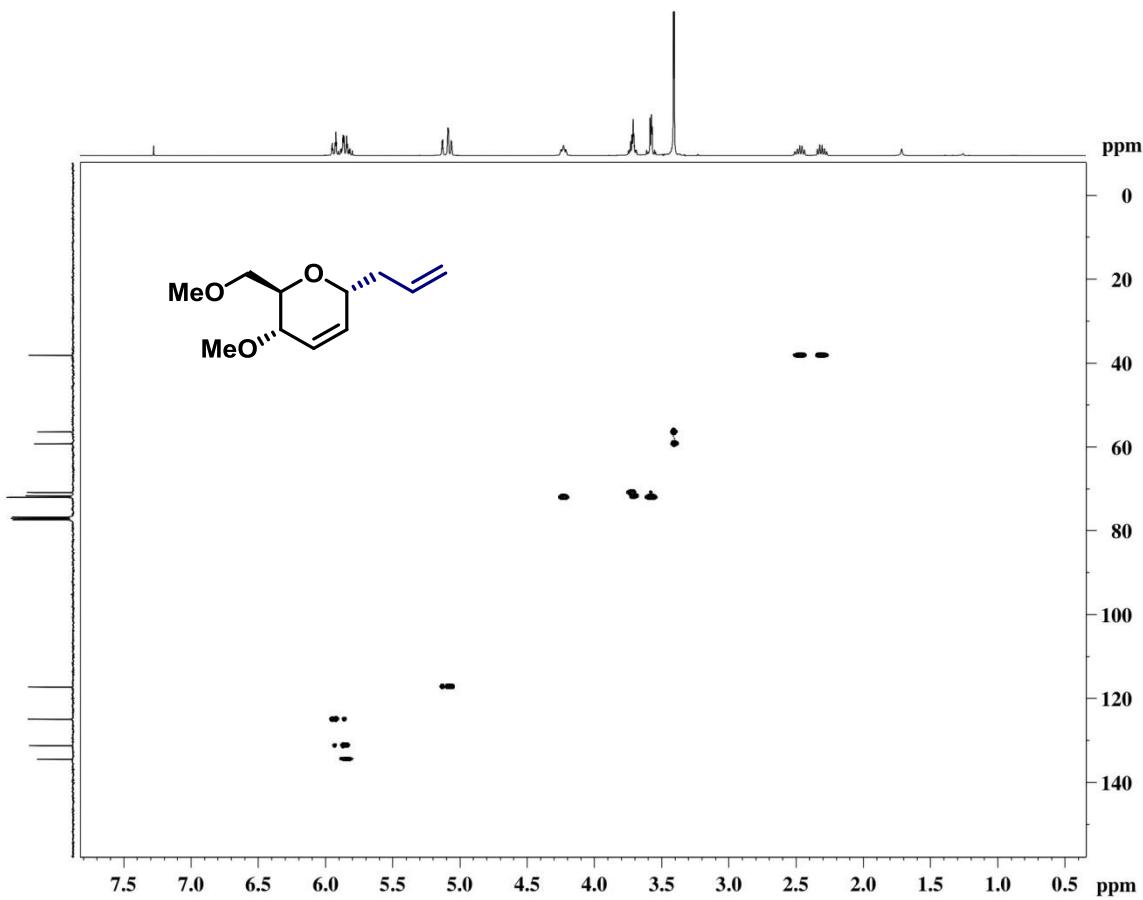


$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **3c** (100 MHz, CDCl_3)

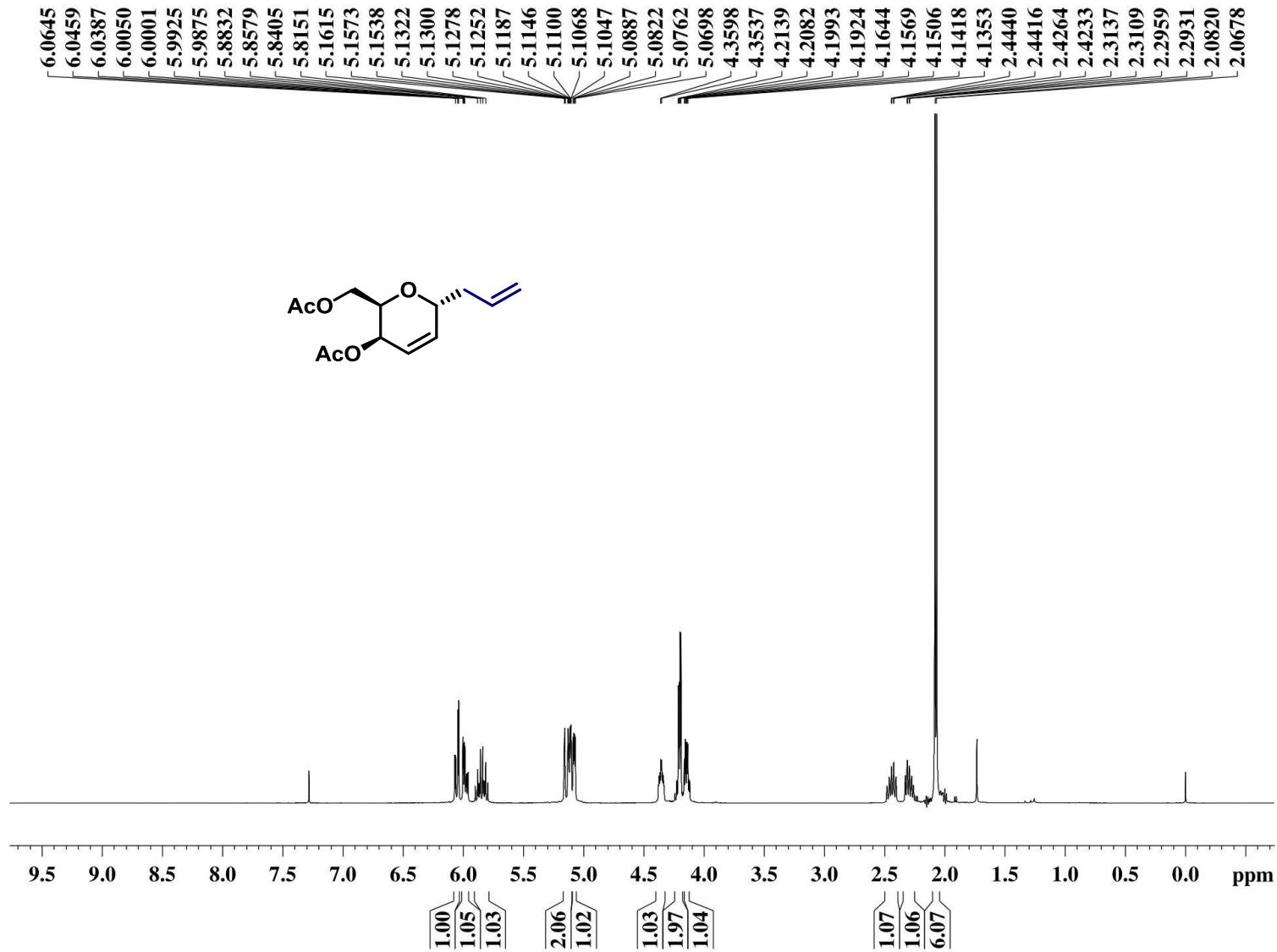




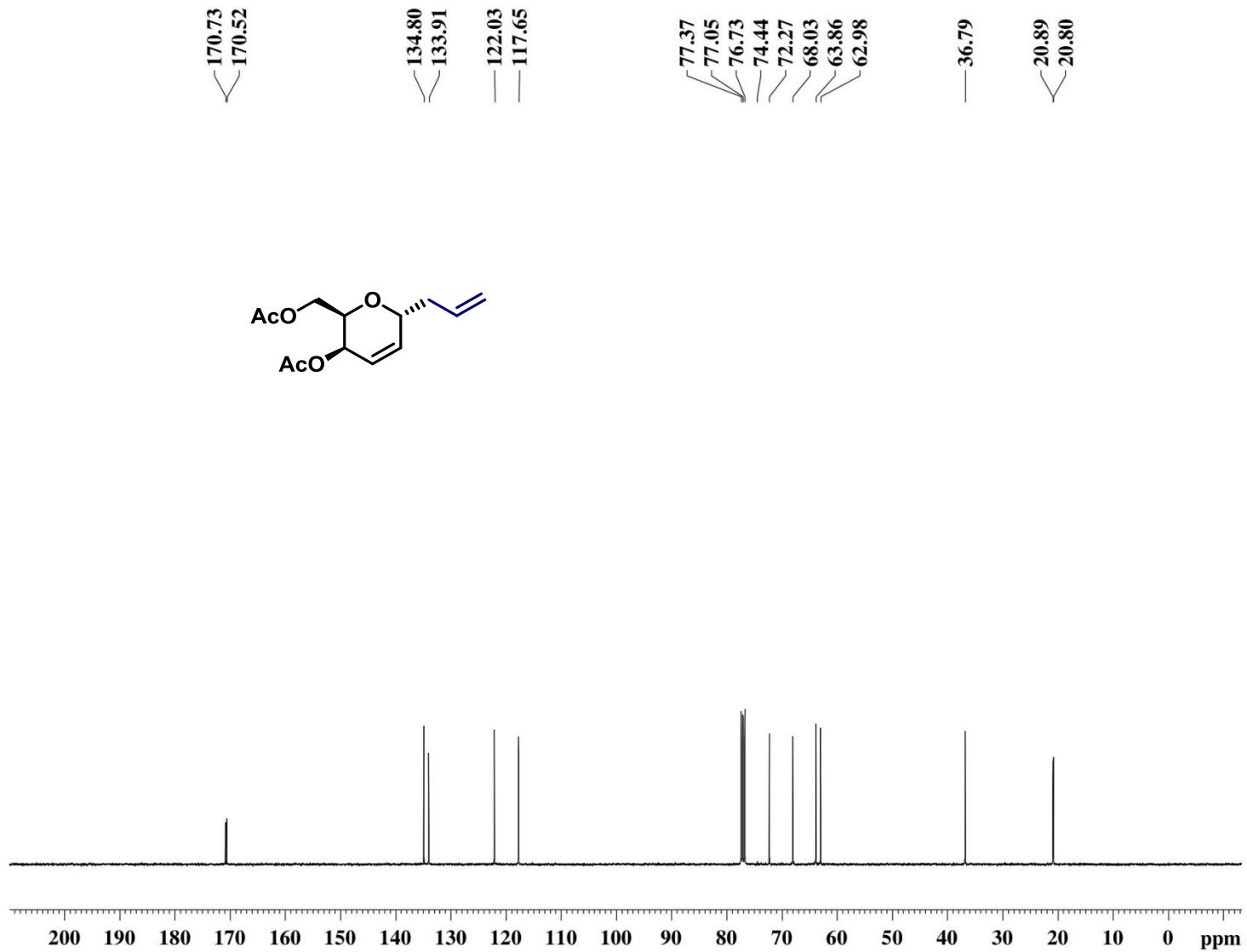
¹³C{¹H} NMR spectrum of **3d** (100 MHz, CDCl₃)



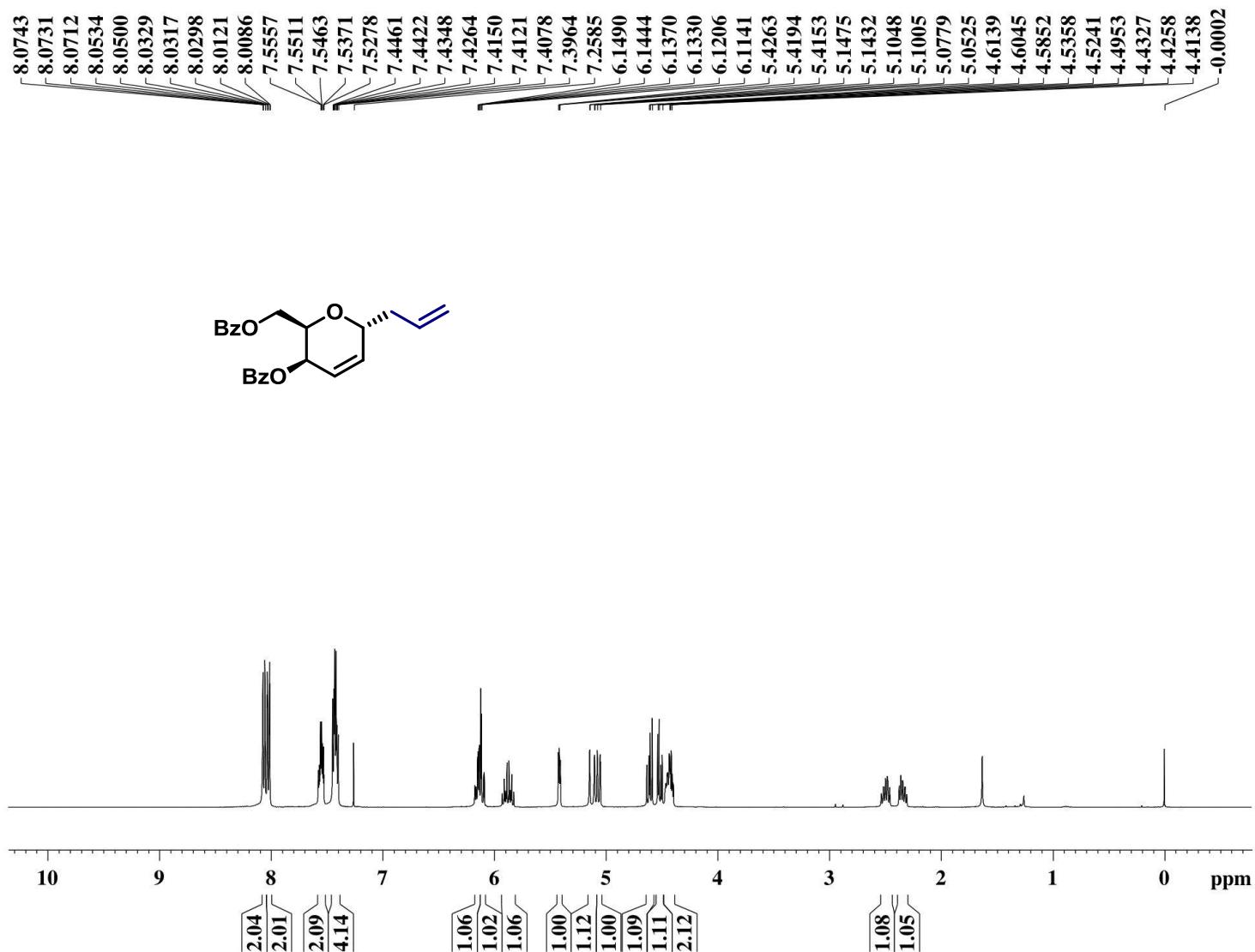
2D-HSQC spectrum of **3d** (400 MHz, CDCl_3)



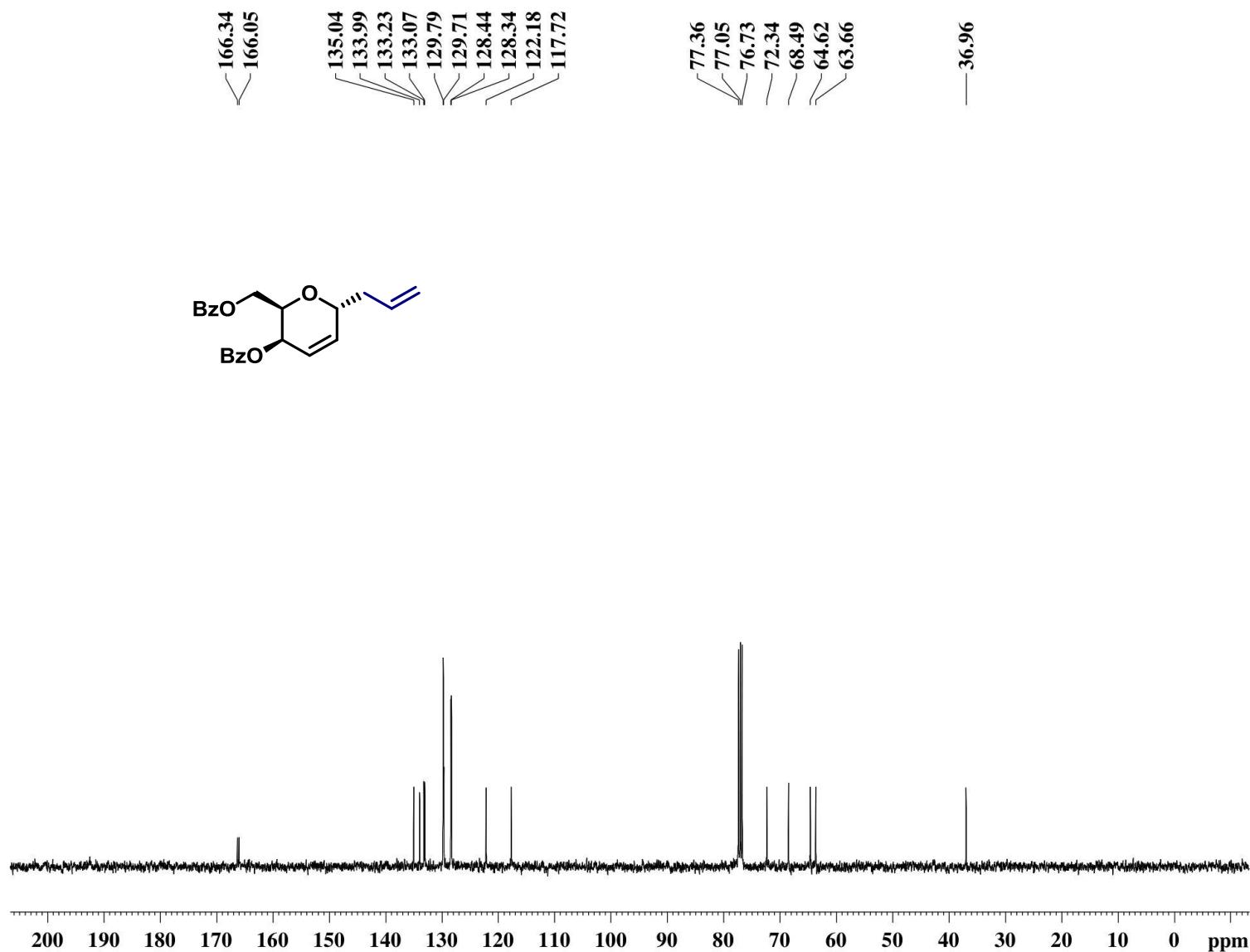
^1H NMR spectrum of **3e** (400 MHz, CDCl_3)

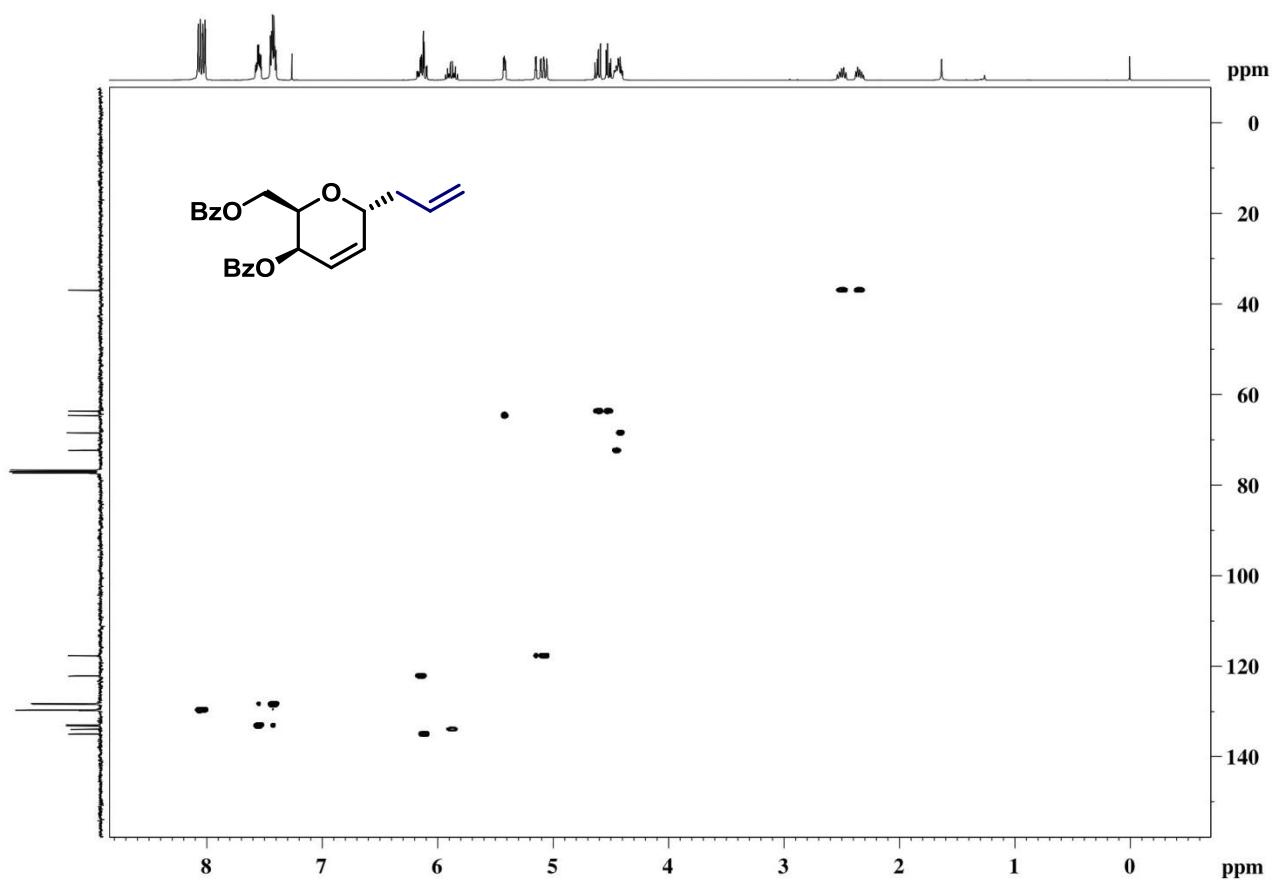


¹³C{¹H} NMR spectrum of **3e** (100 MHz, CDCl₃)

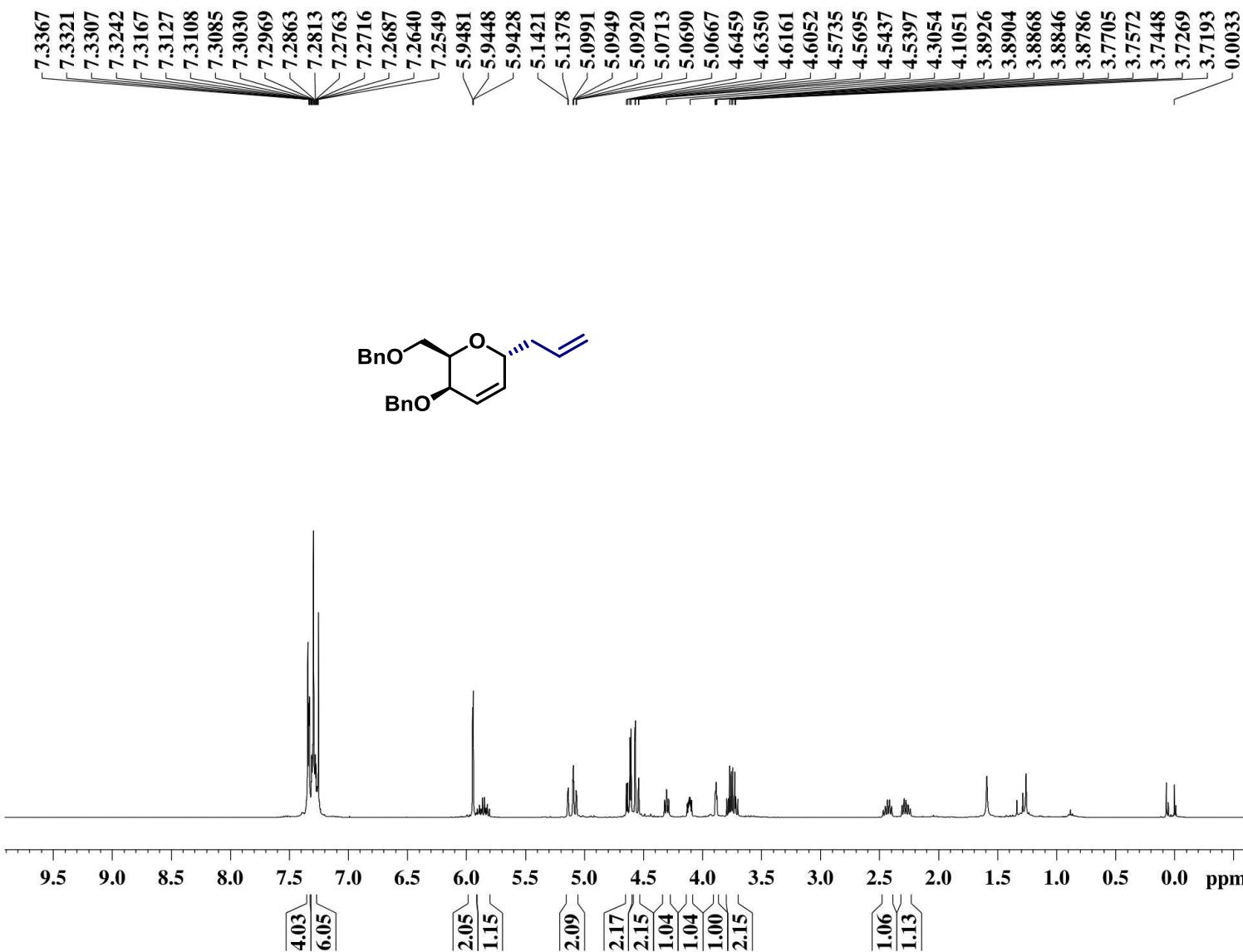


¹H NMR spectrum of **3f** (400 MHz, CDCl_3)

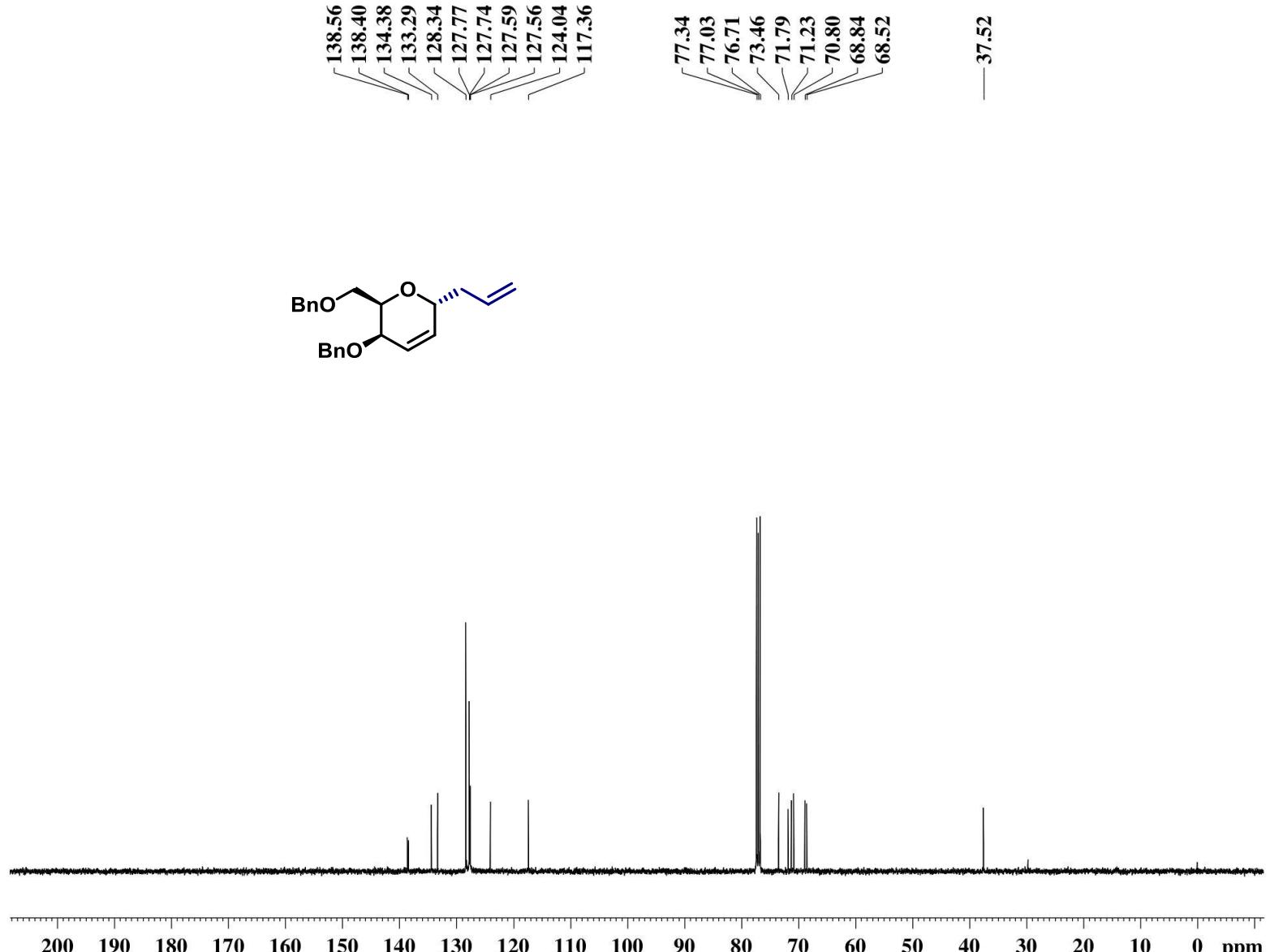


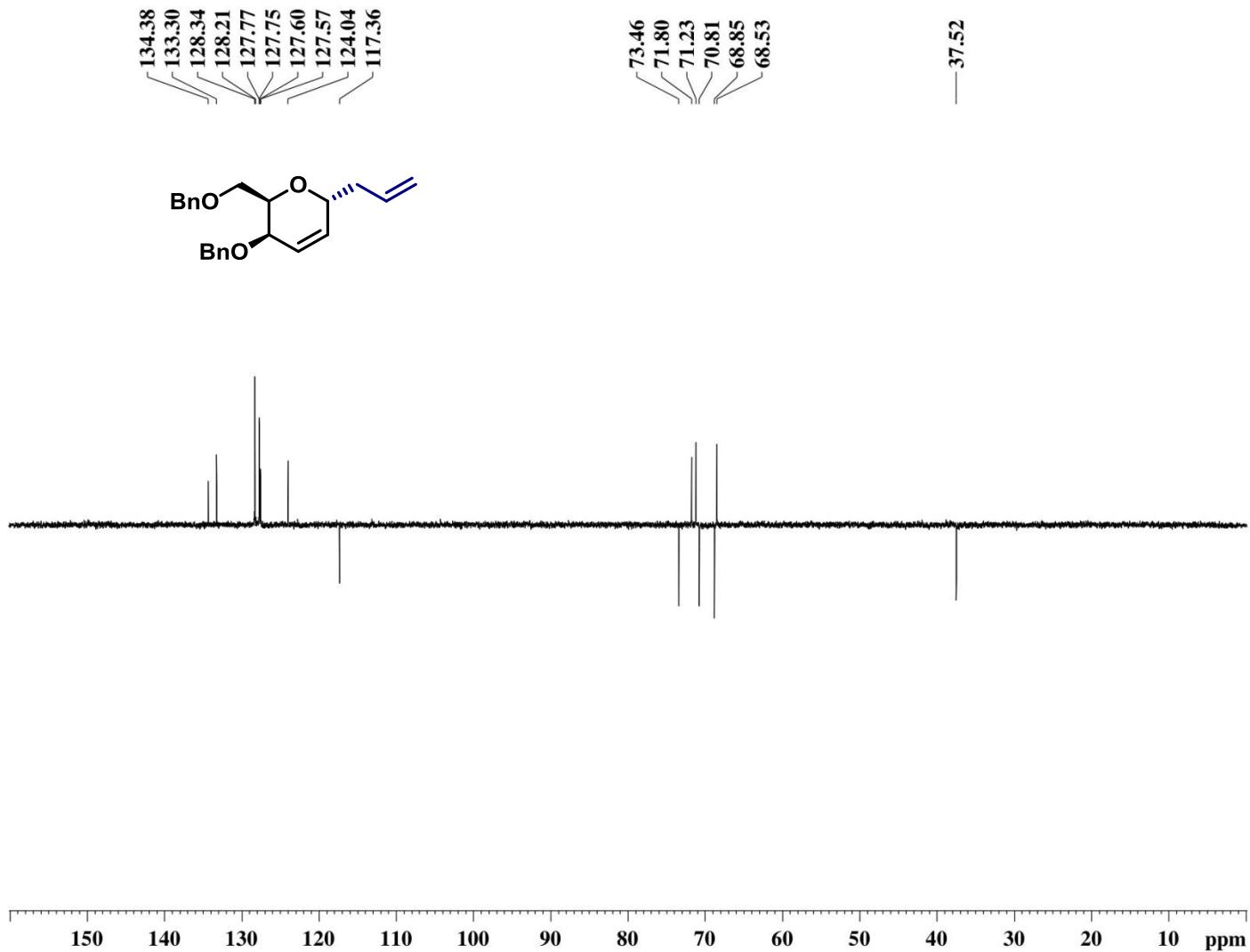


2D-HSQC spectrum of **3f** (400 MHz, CDCl_3)

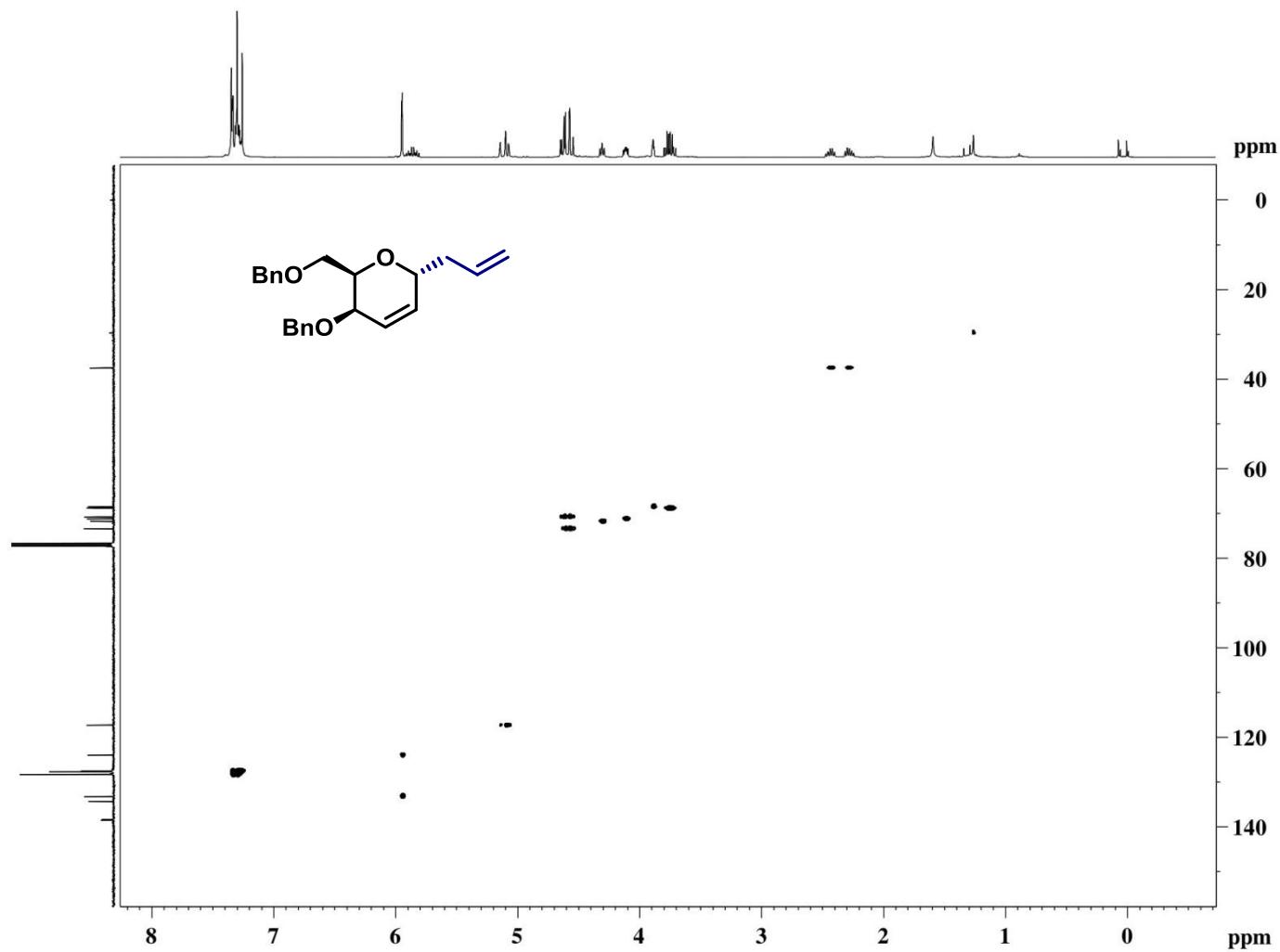


¹H NMR spectrum of **3g** (400 MHz, CDCl₃)

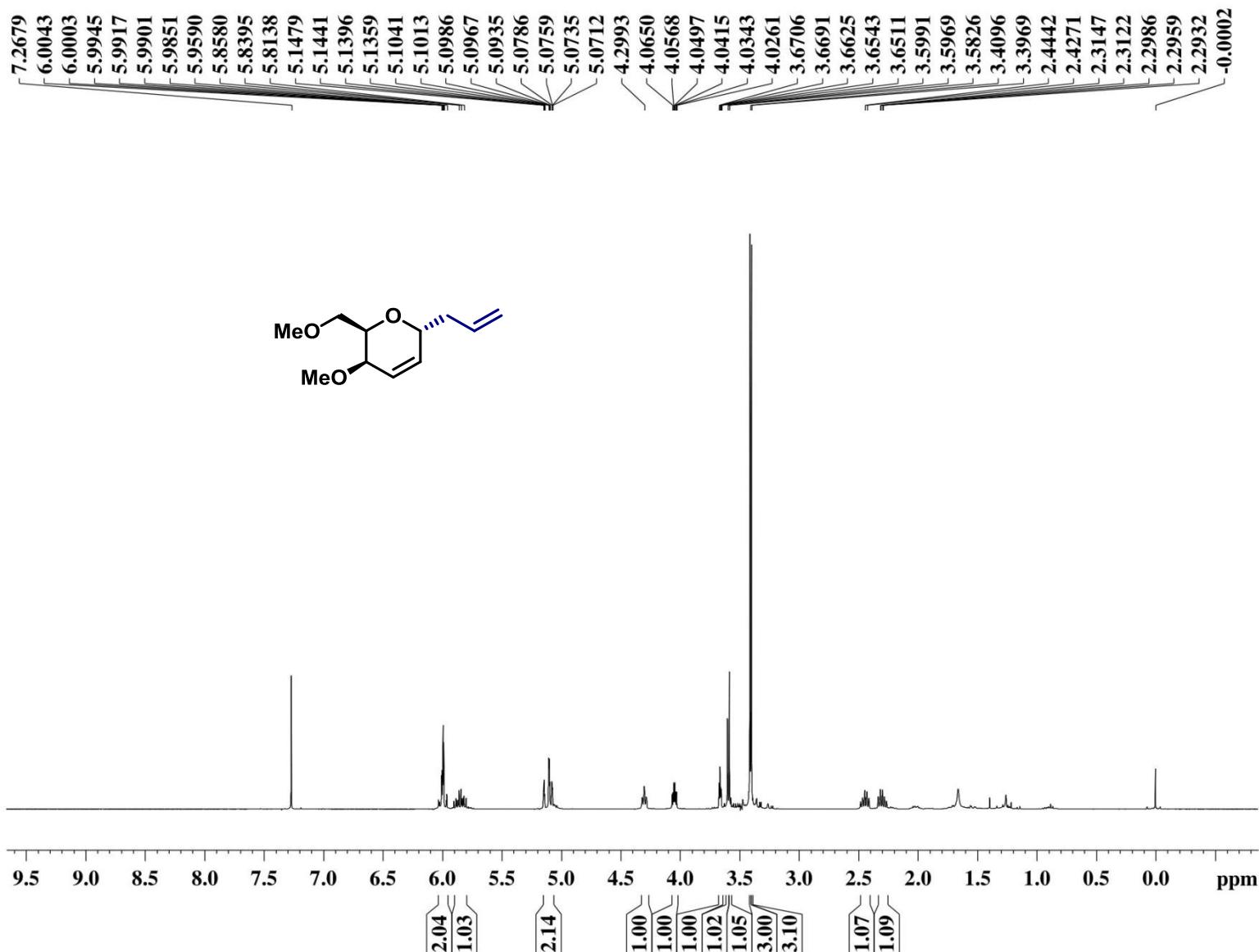




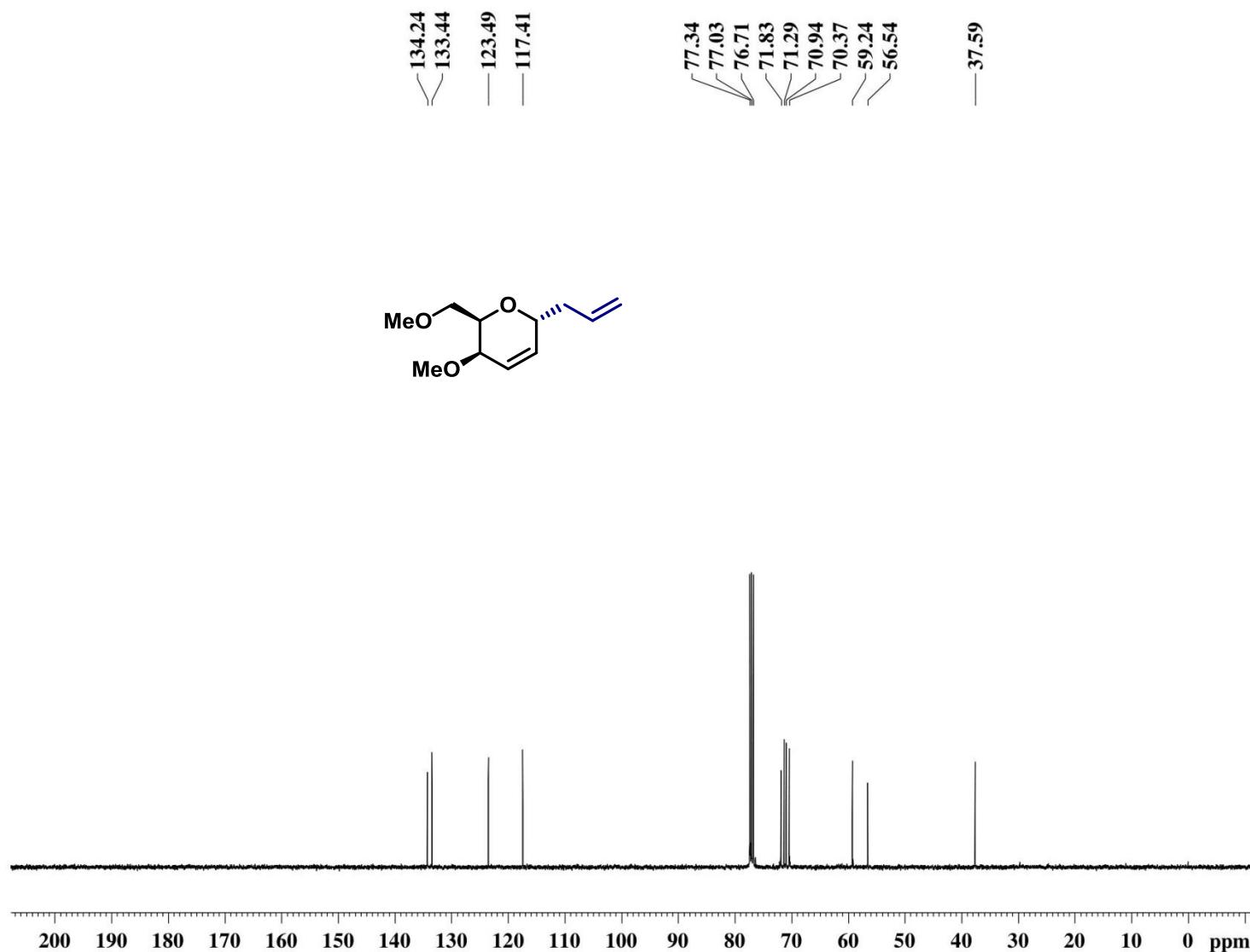
^{13}C Dept-135 spectrum of **3g** (100 MHz, CDCl_3)

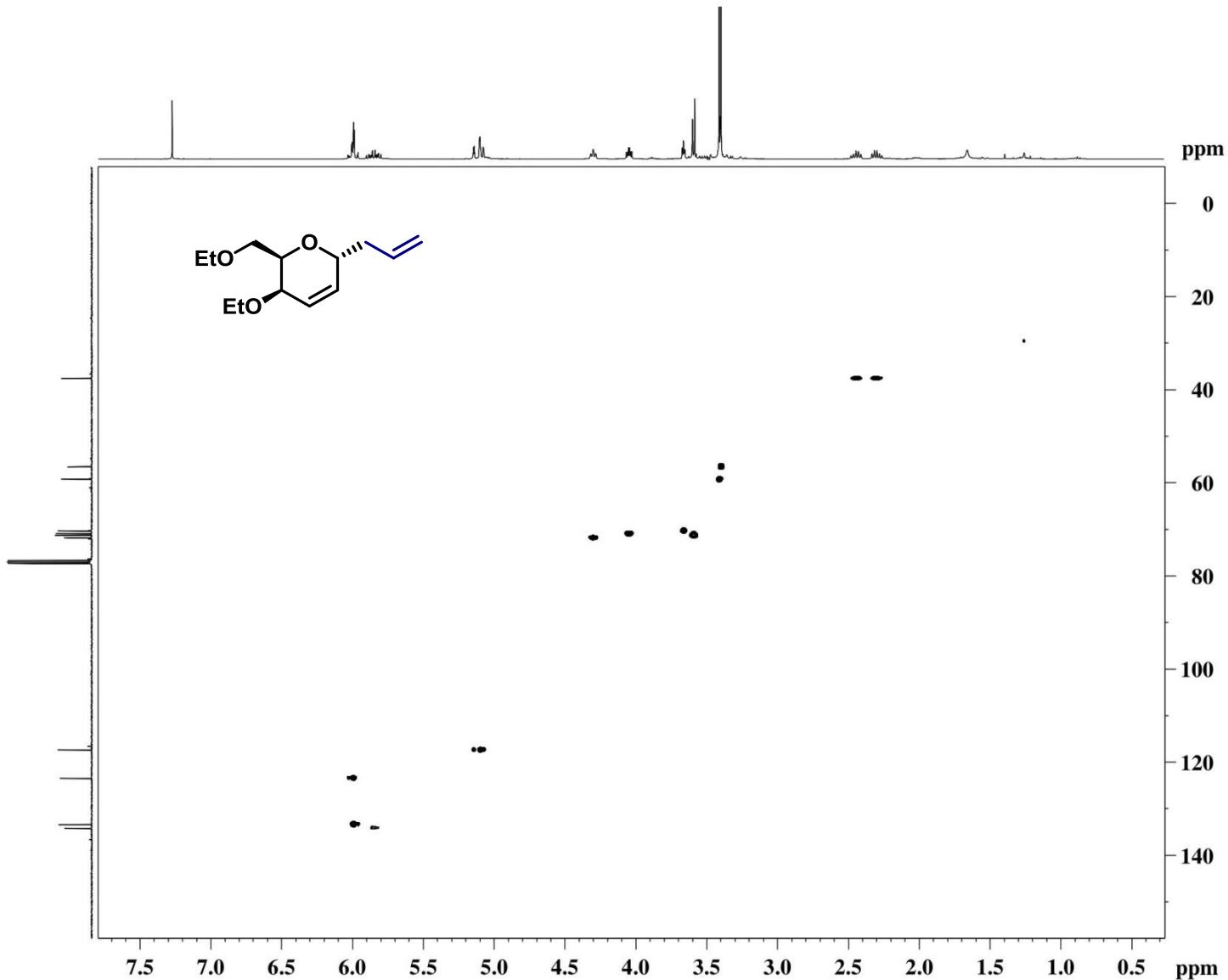


2D-HSQC spectrum of **3g** (400 MHz, CDCl_3)

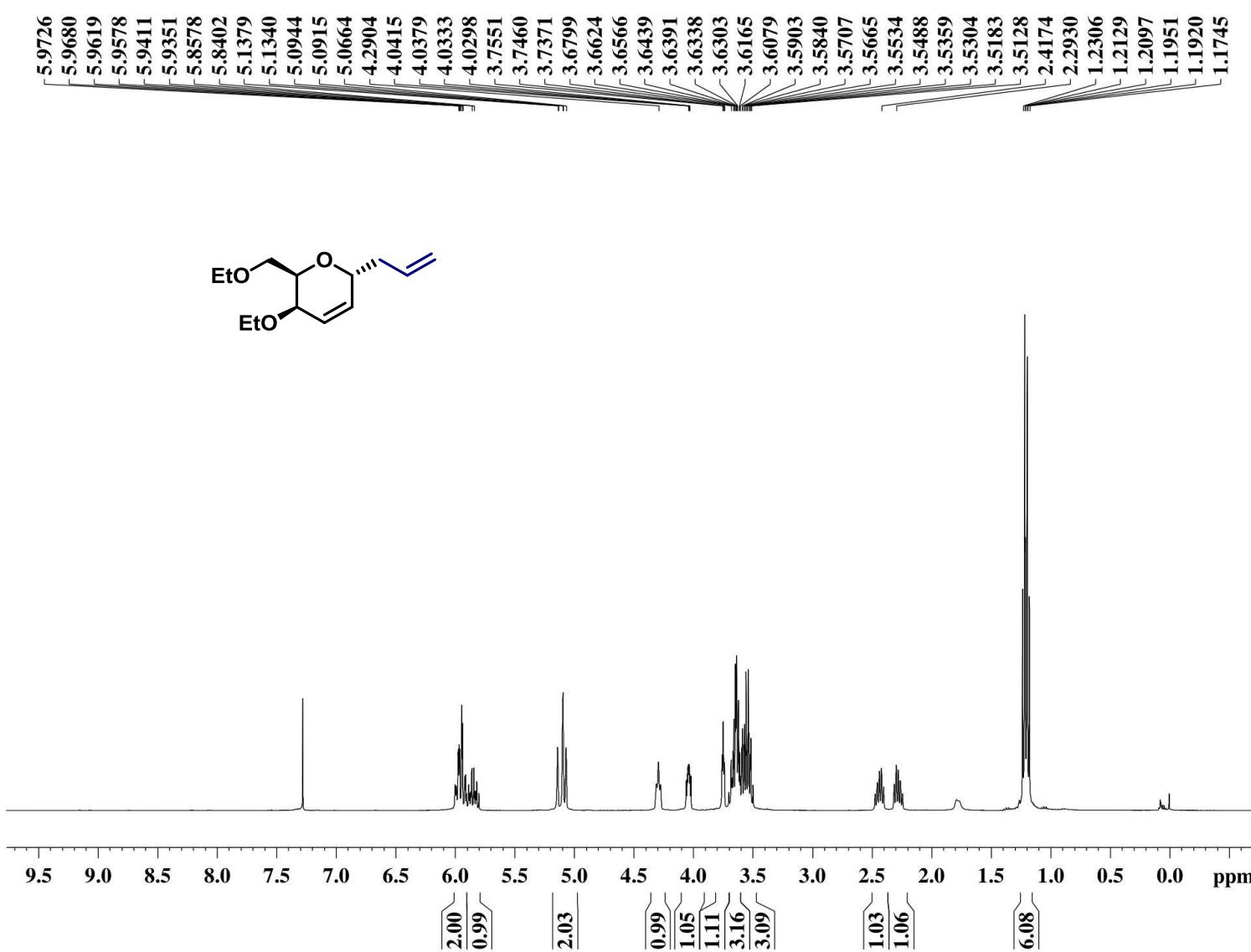


^1H NMR spectrum of **3h** (400 MHz, CDCl_3)

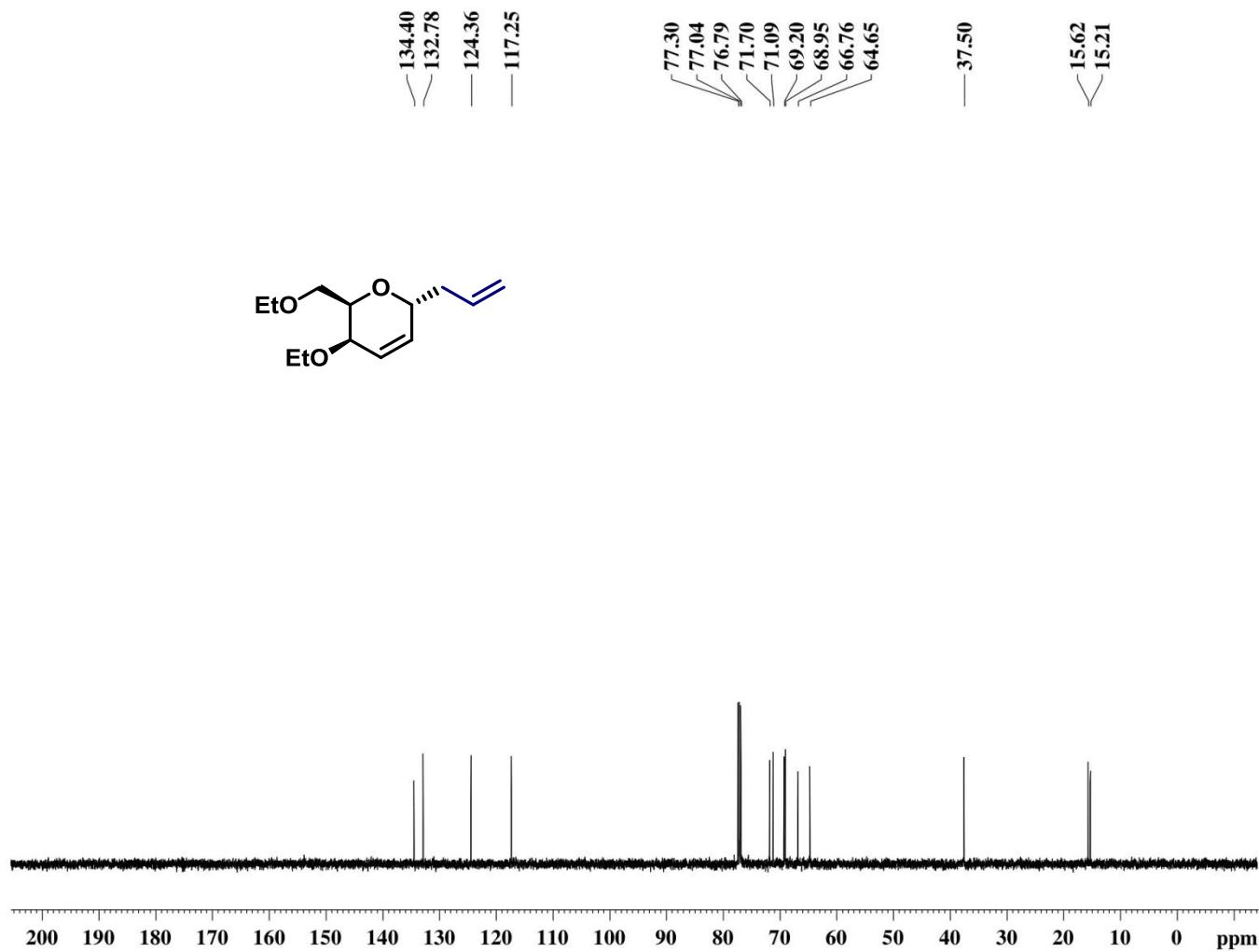




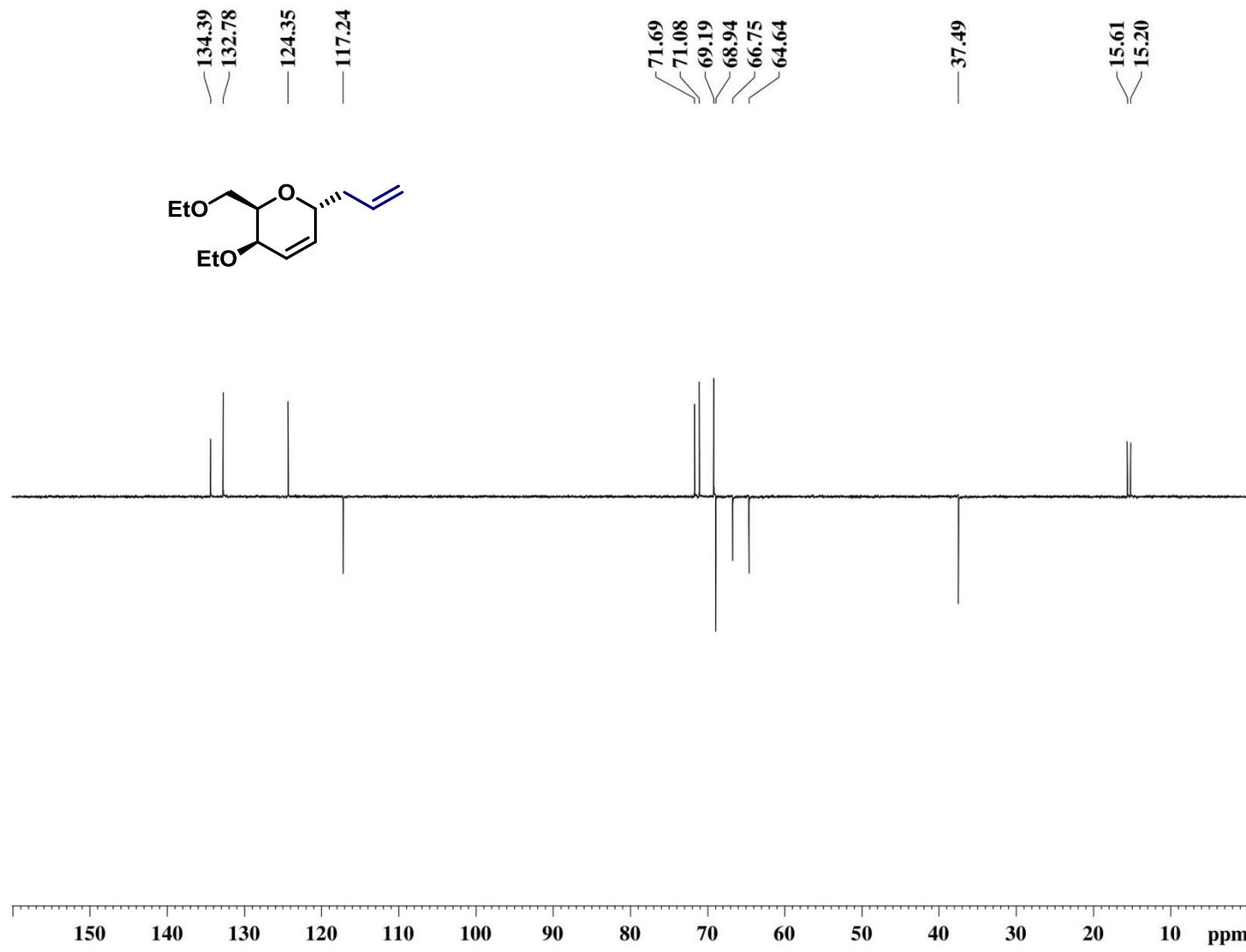
2D-HSQC spectrum of **3h** (400 MHz, CDCl₃)



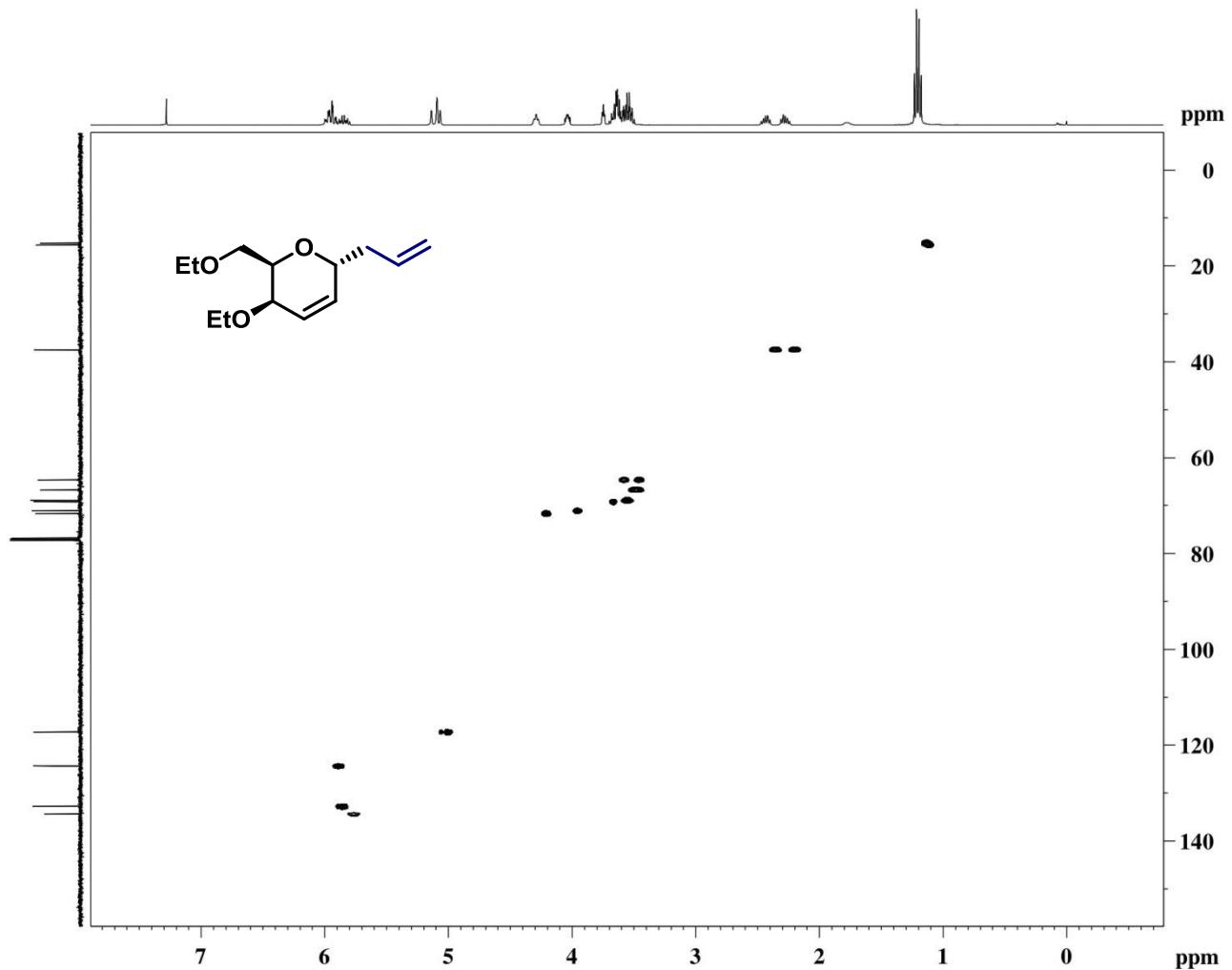
¹H NMR spectrum of **3i** (400 MHz, CDCl₃)



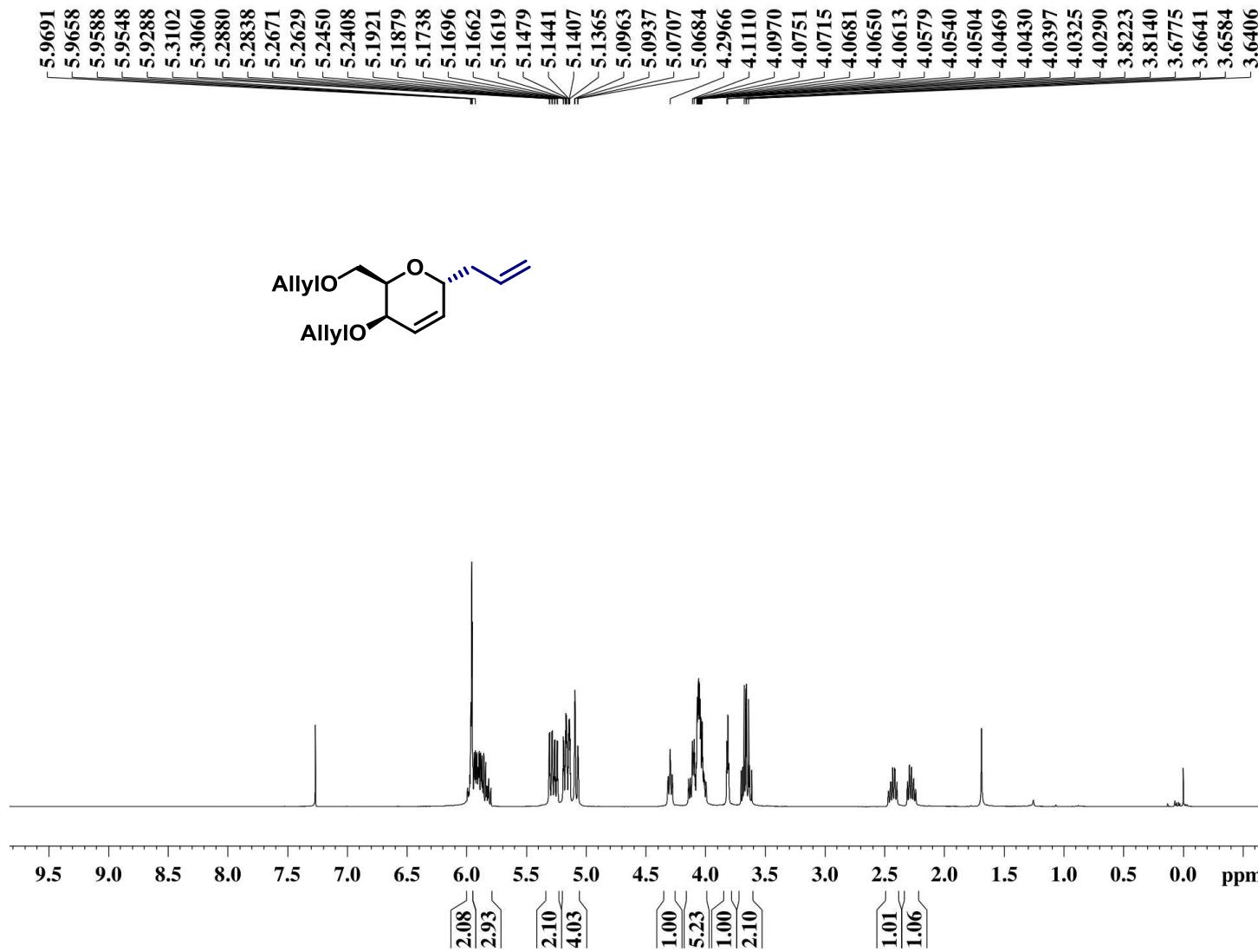
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **3i** (100 MHz, CDCl_3)



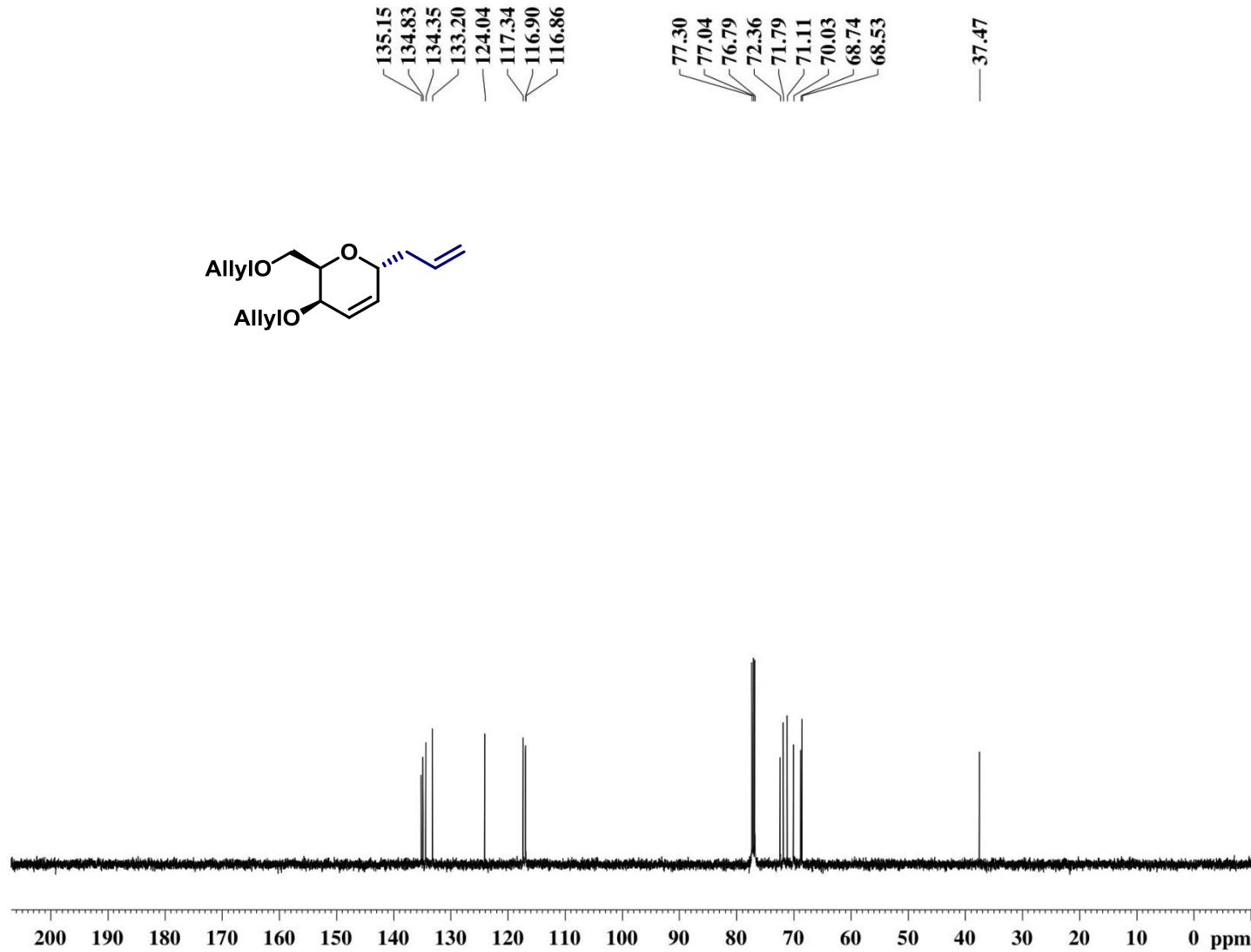
^{13}C Dept-135 spectrum of **3i** (100 MHz, CDCl_3)

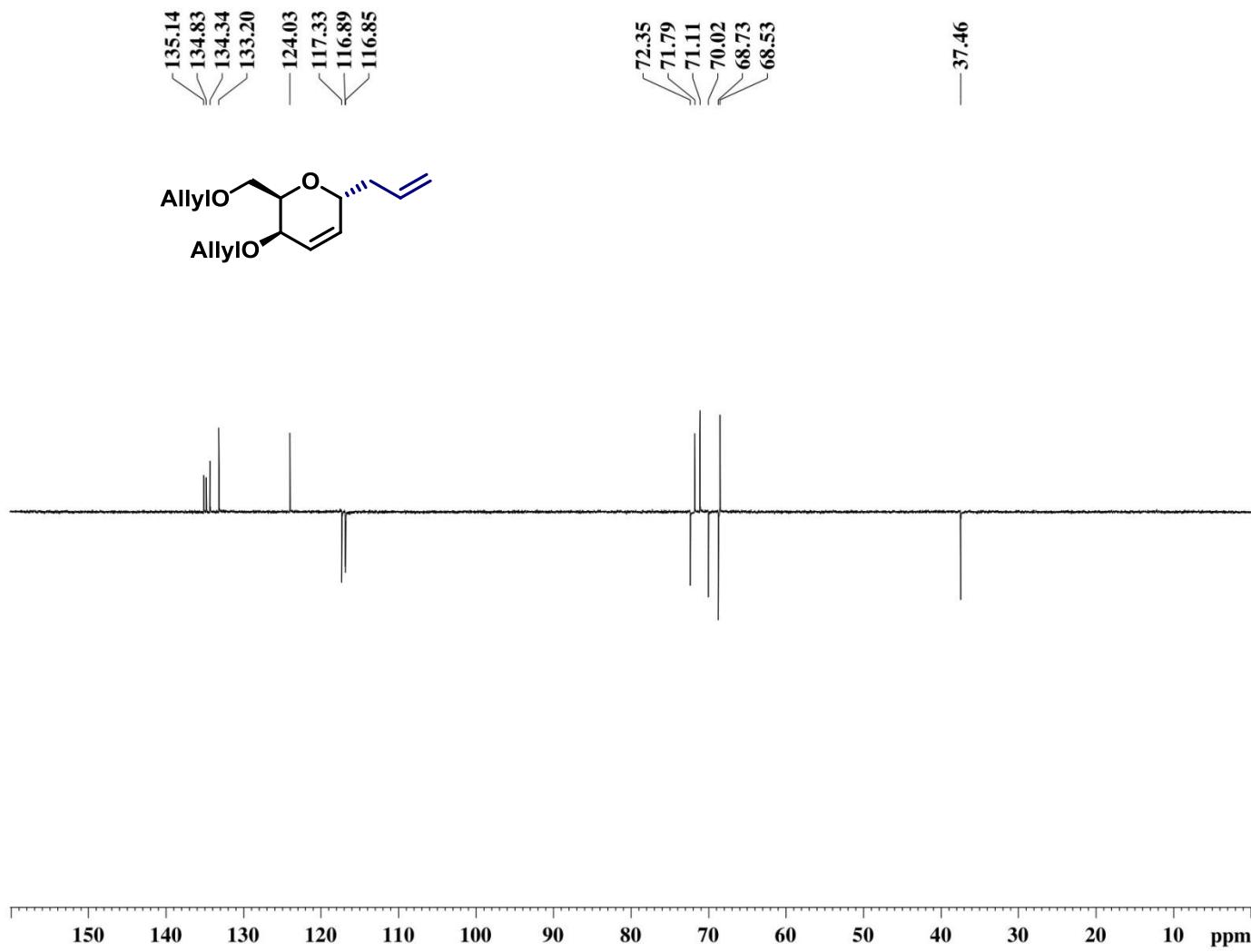


2D-HSQC spectrum of **3i** (400 MHz, CDCl_3)

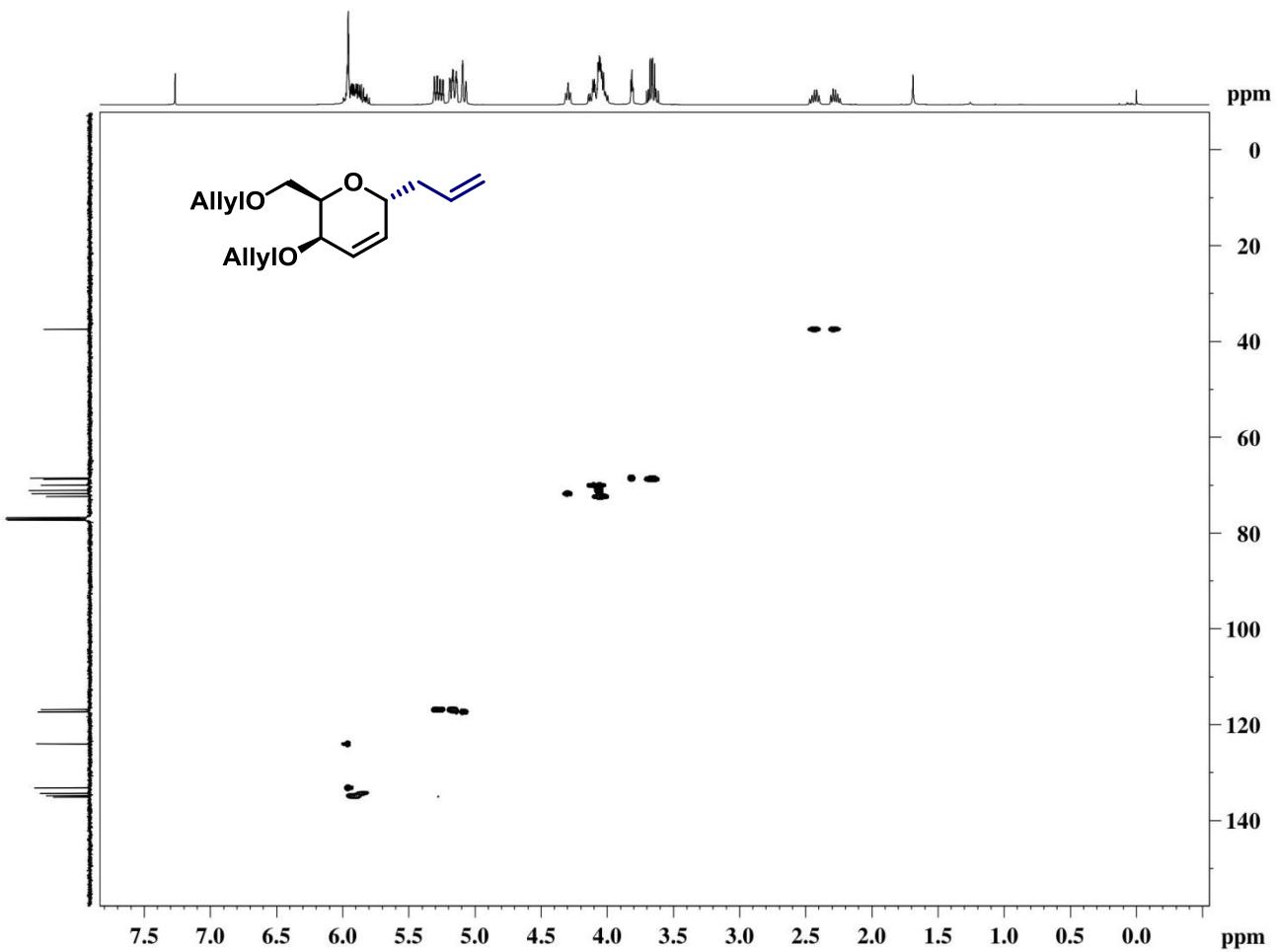


¹H NMR spectrum of **3j** (400 MHz, CDCl₃)

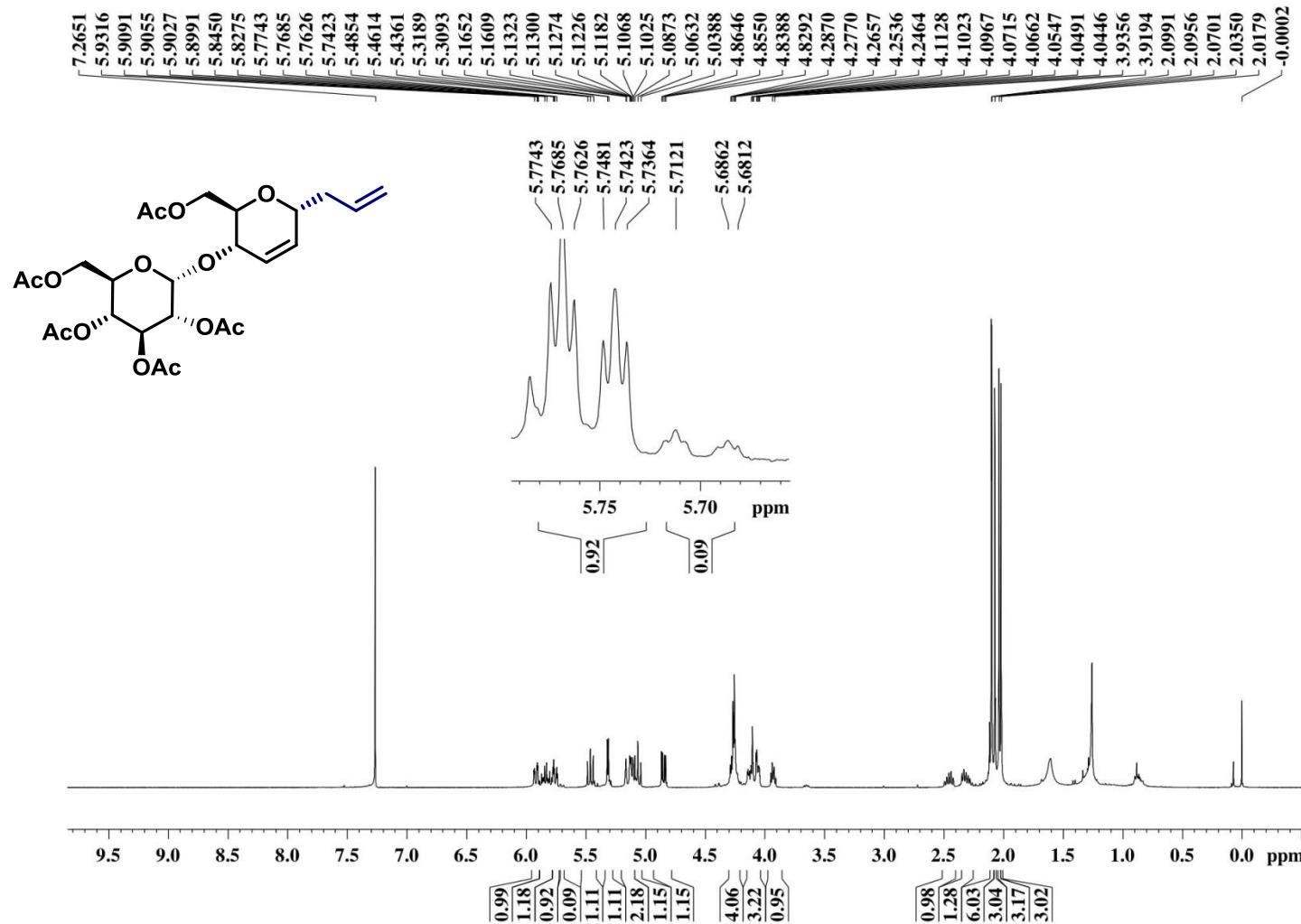




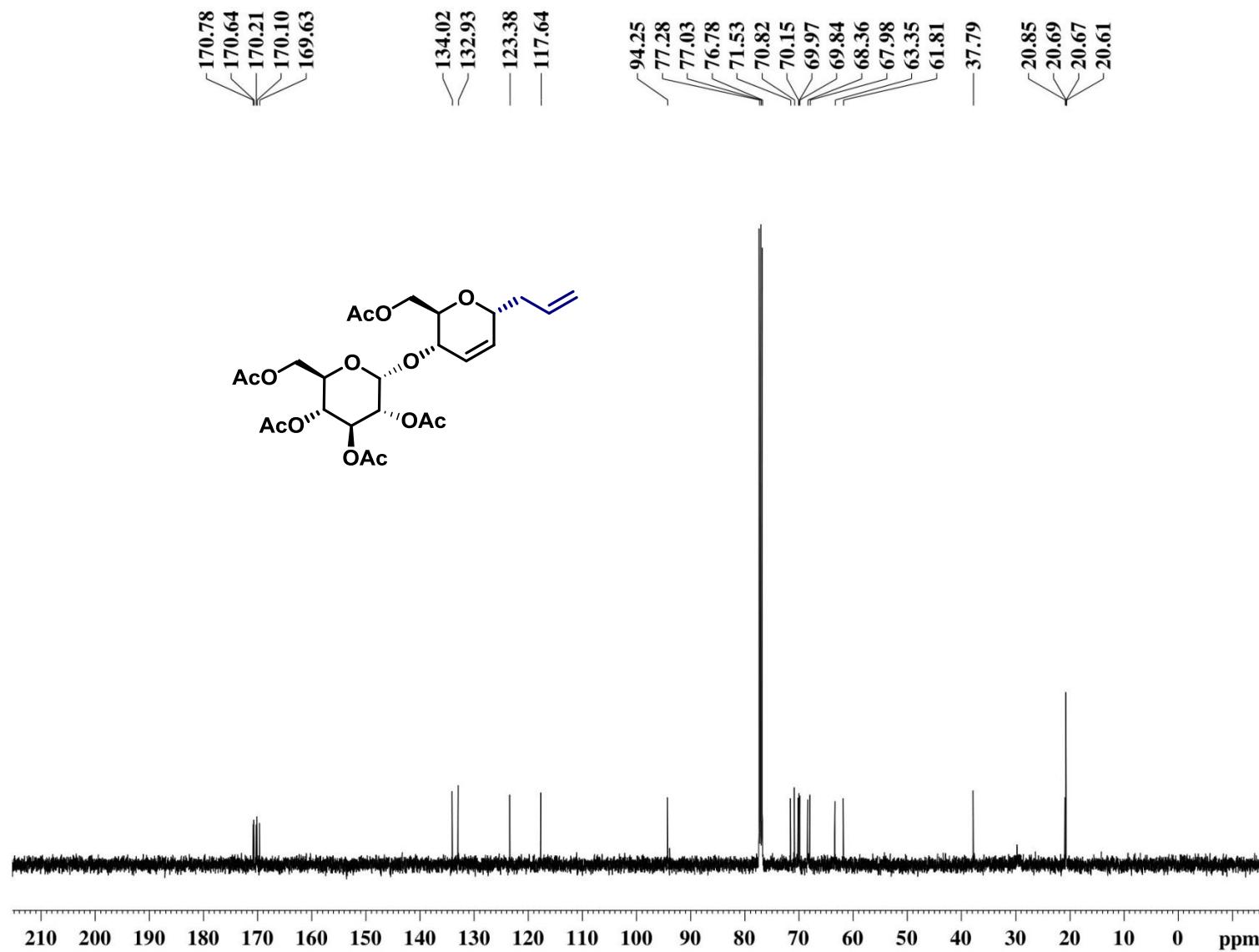
^{13}C Dept-135 spectrum of **3j** (100 MHz, CDCl_3)

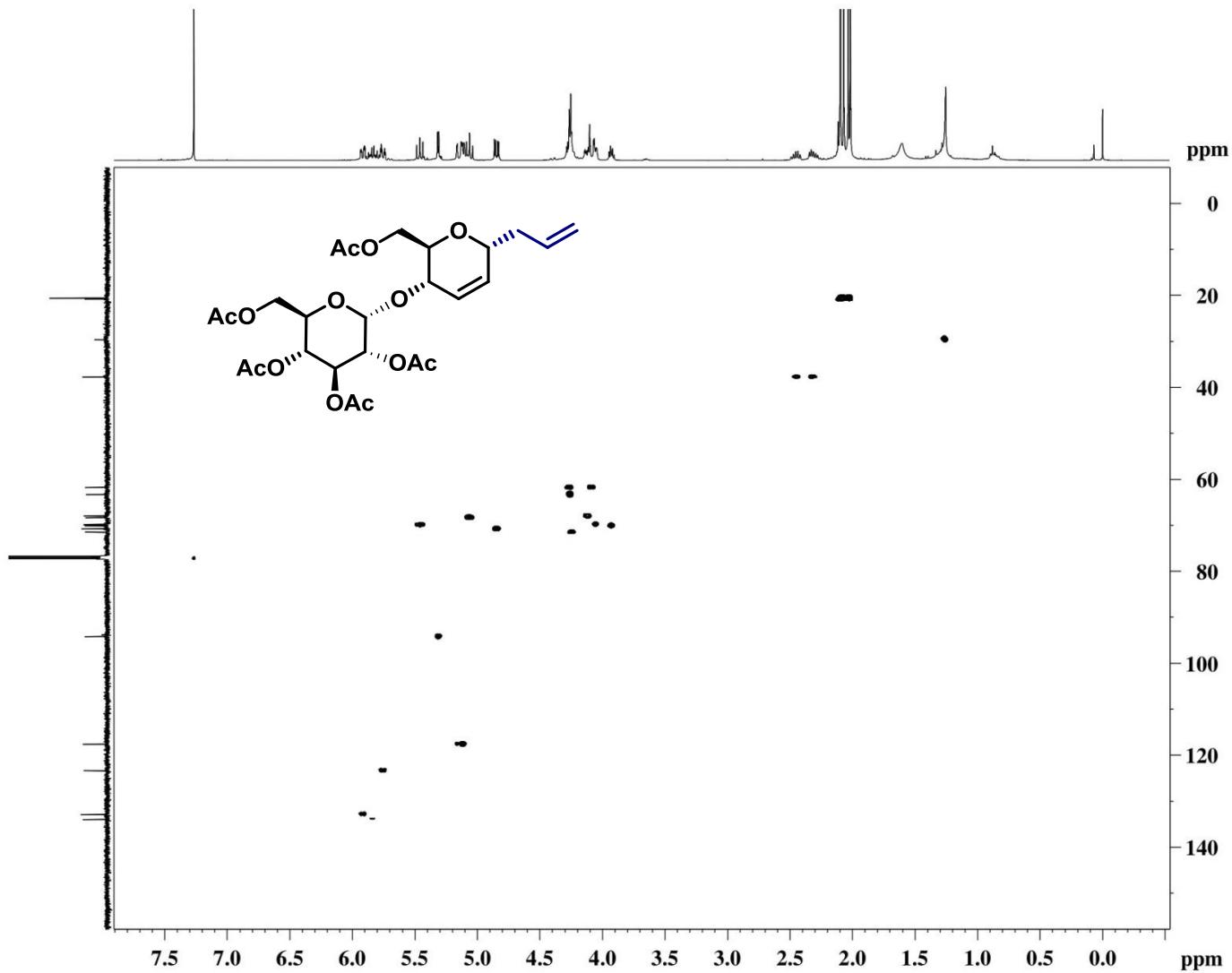


2D-HSQC spectrum of **3j** (400 MHz, CDCl₃)

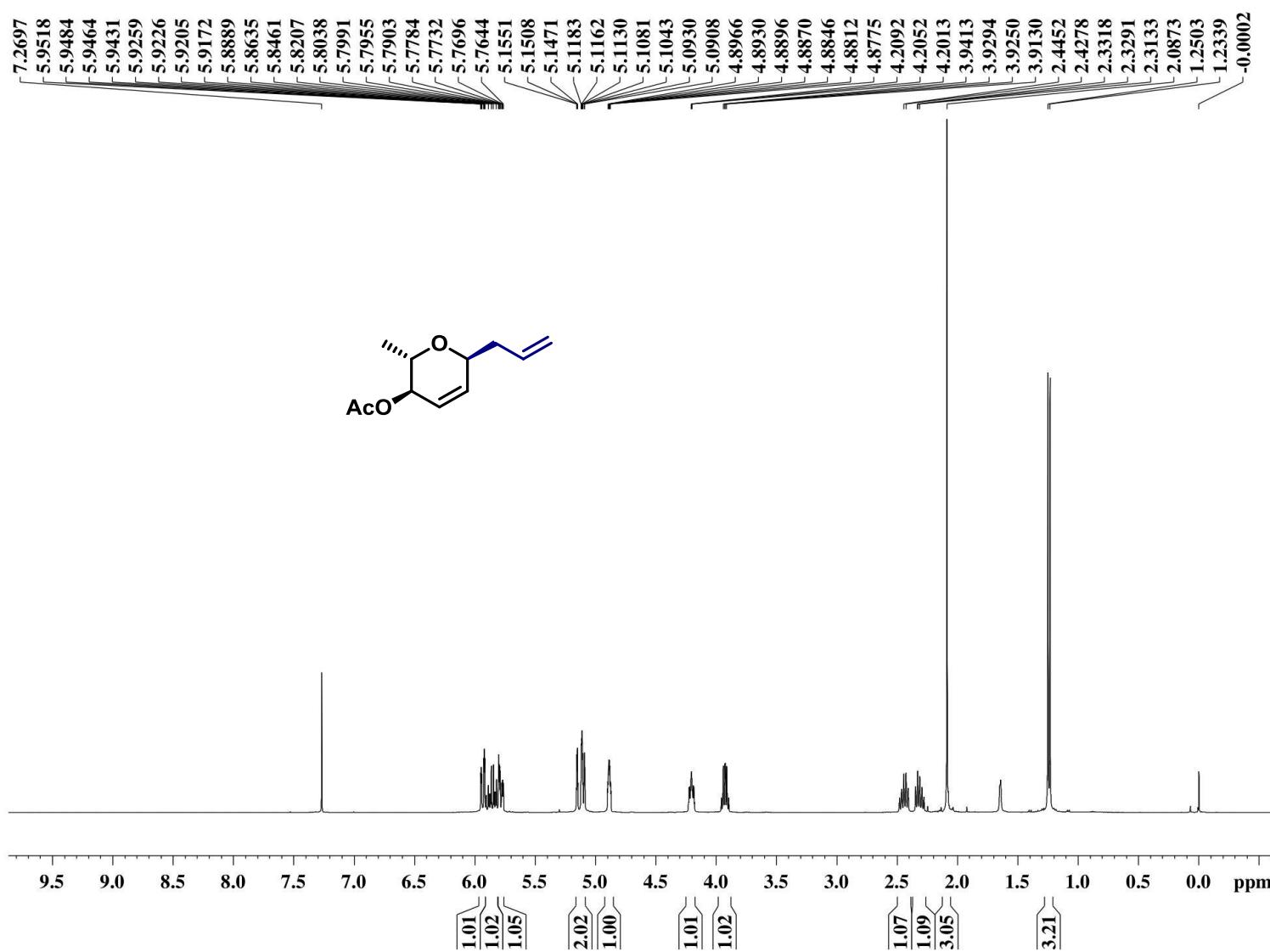


¹H NMR spectrum of **3k** (400 MHz, CDCl_3)

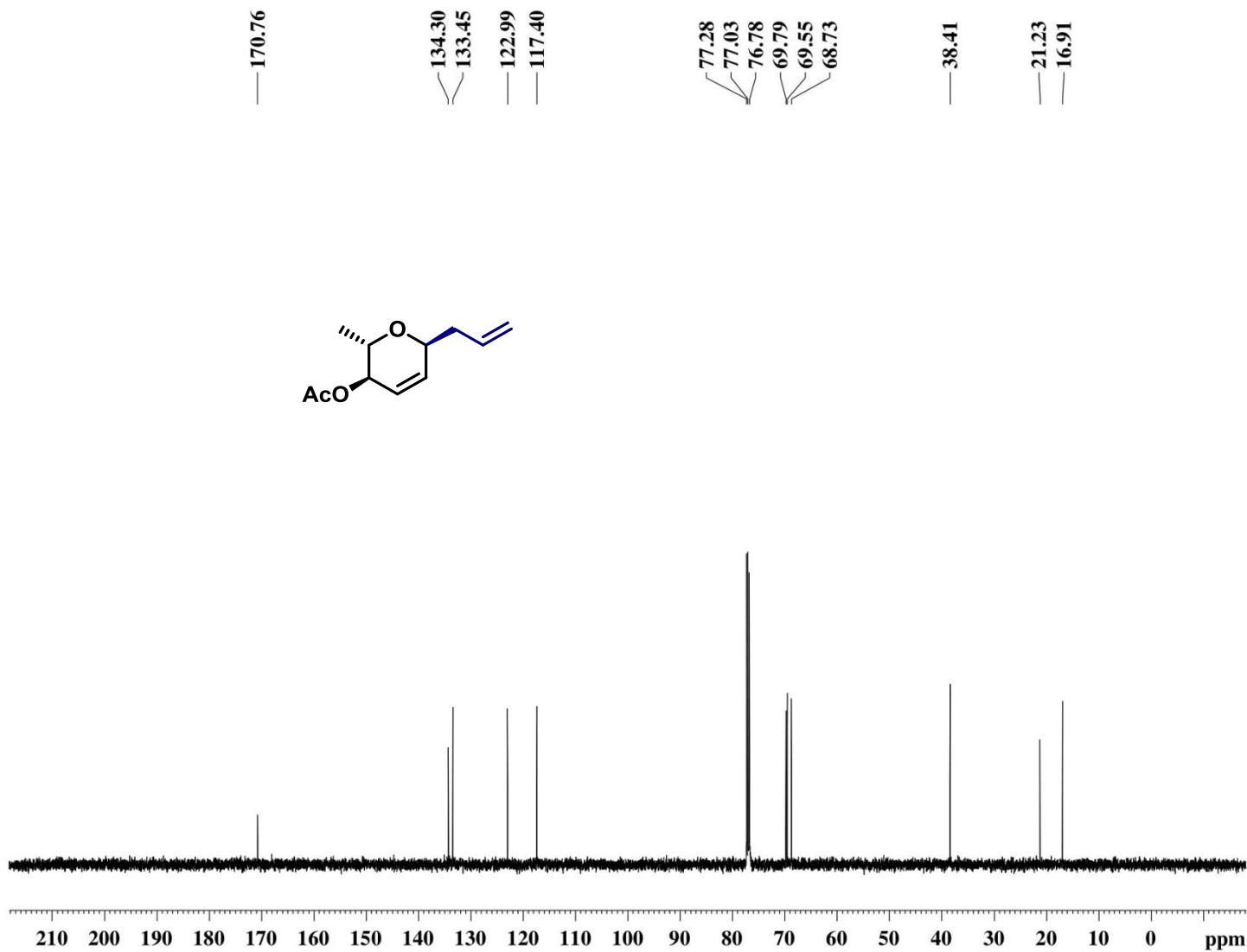


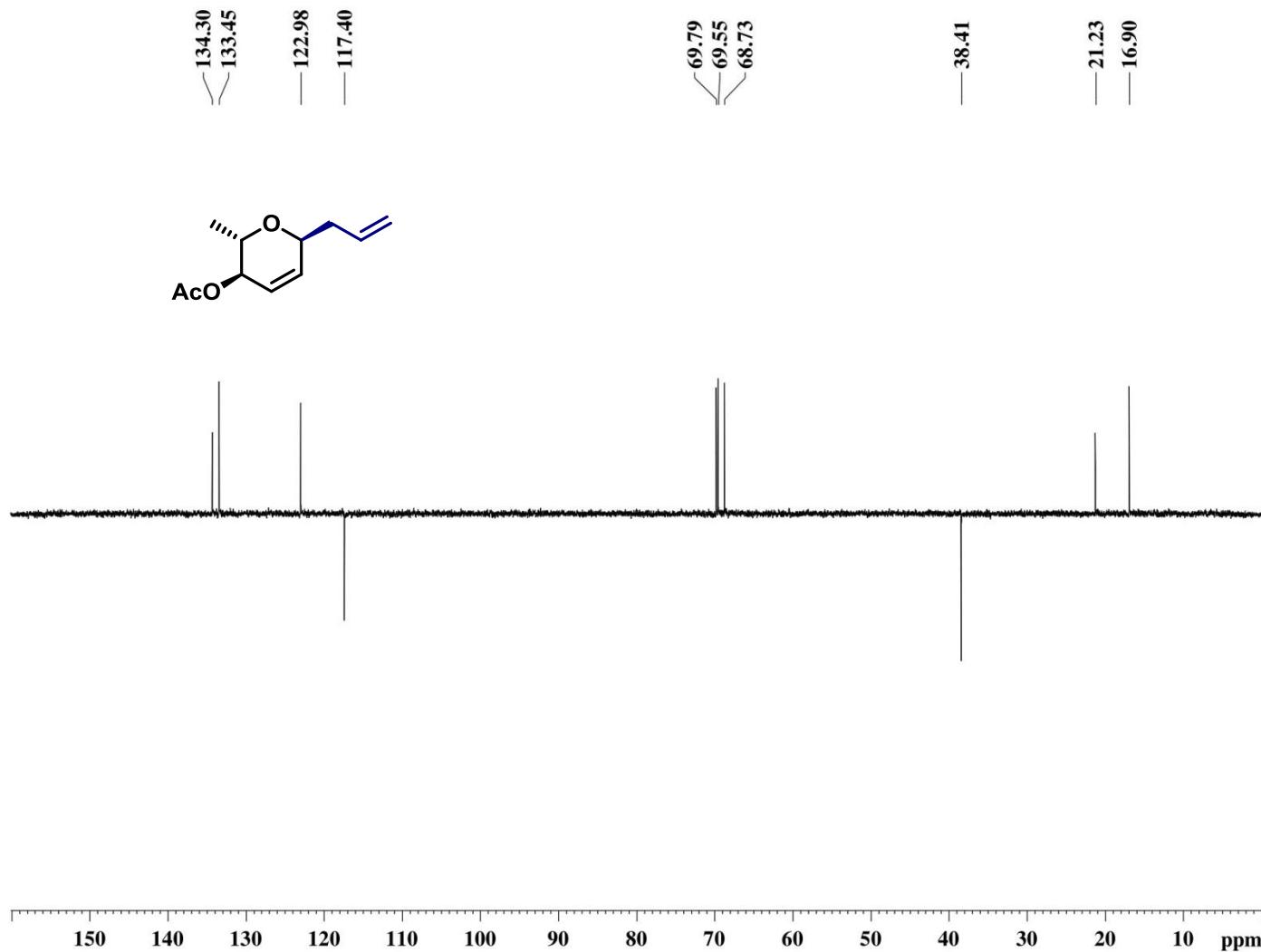


2D-HSQC spectrum of **3k** (400 MHz, CDCl_3)

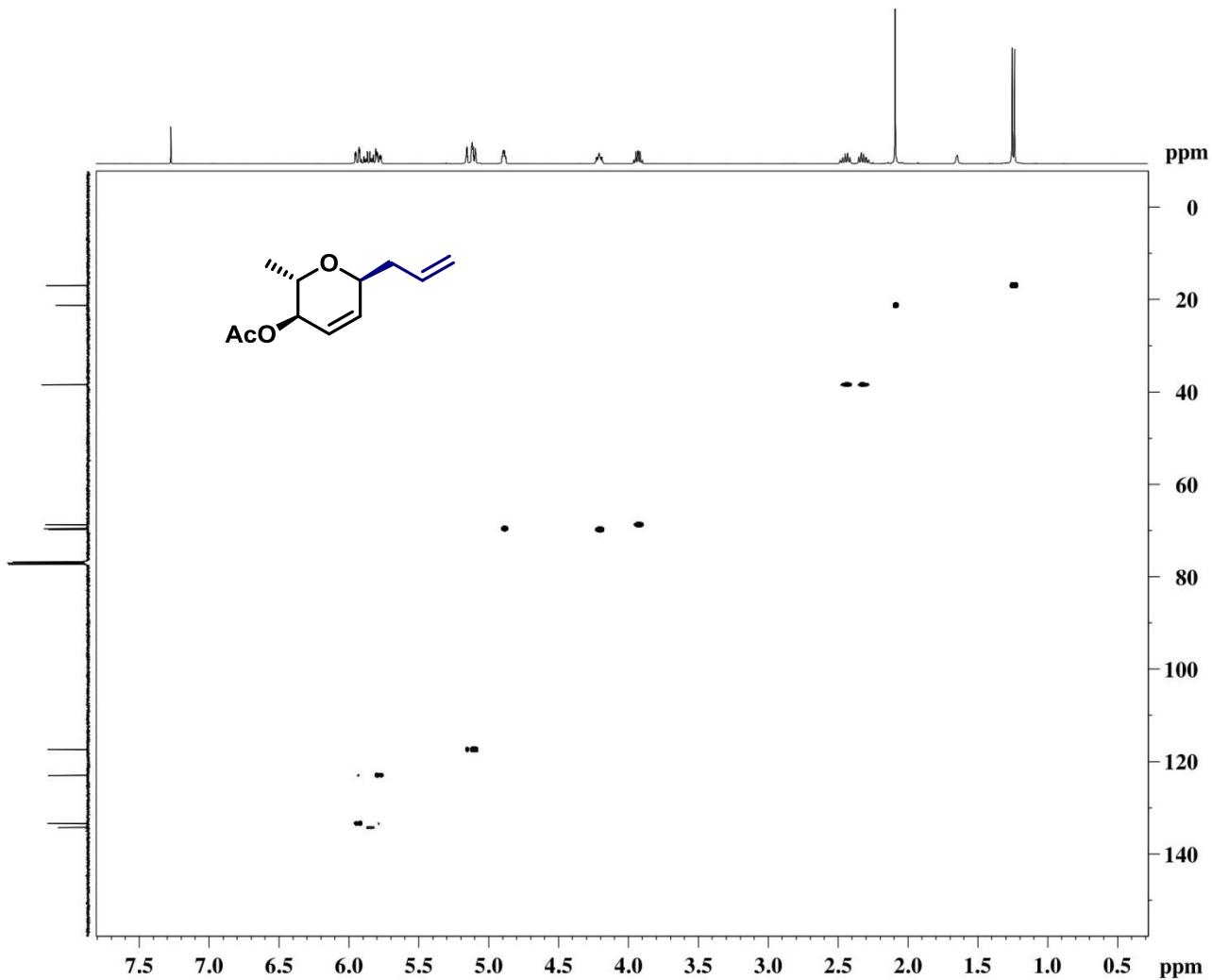


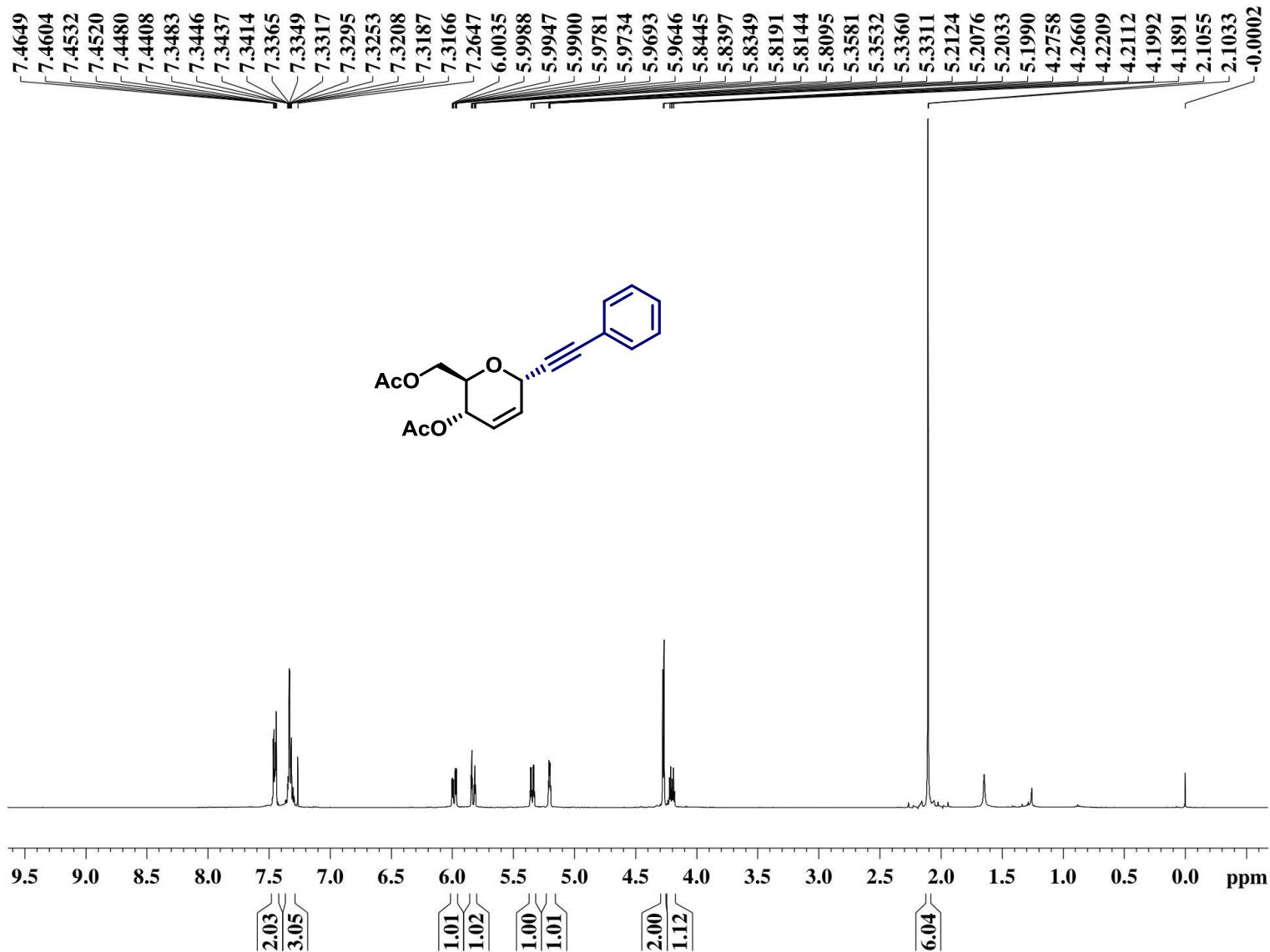
¹H NMR spectrum of **3I** (400 MHz, CDCl₃)



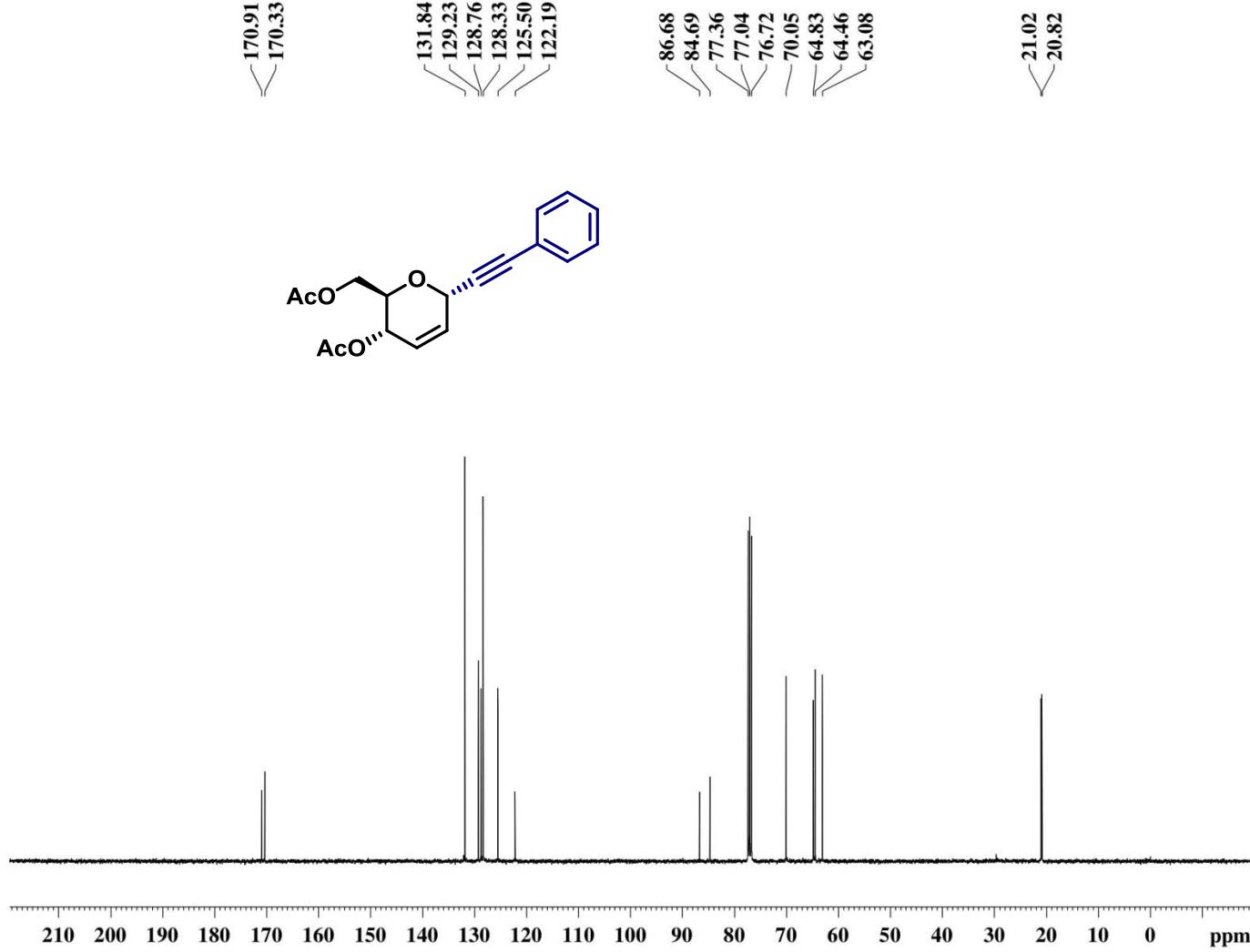


^{13}C Dept-135 spectrum of **3I** (100 MHz, CDCl_3)

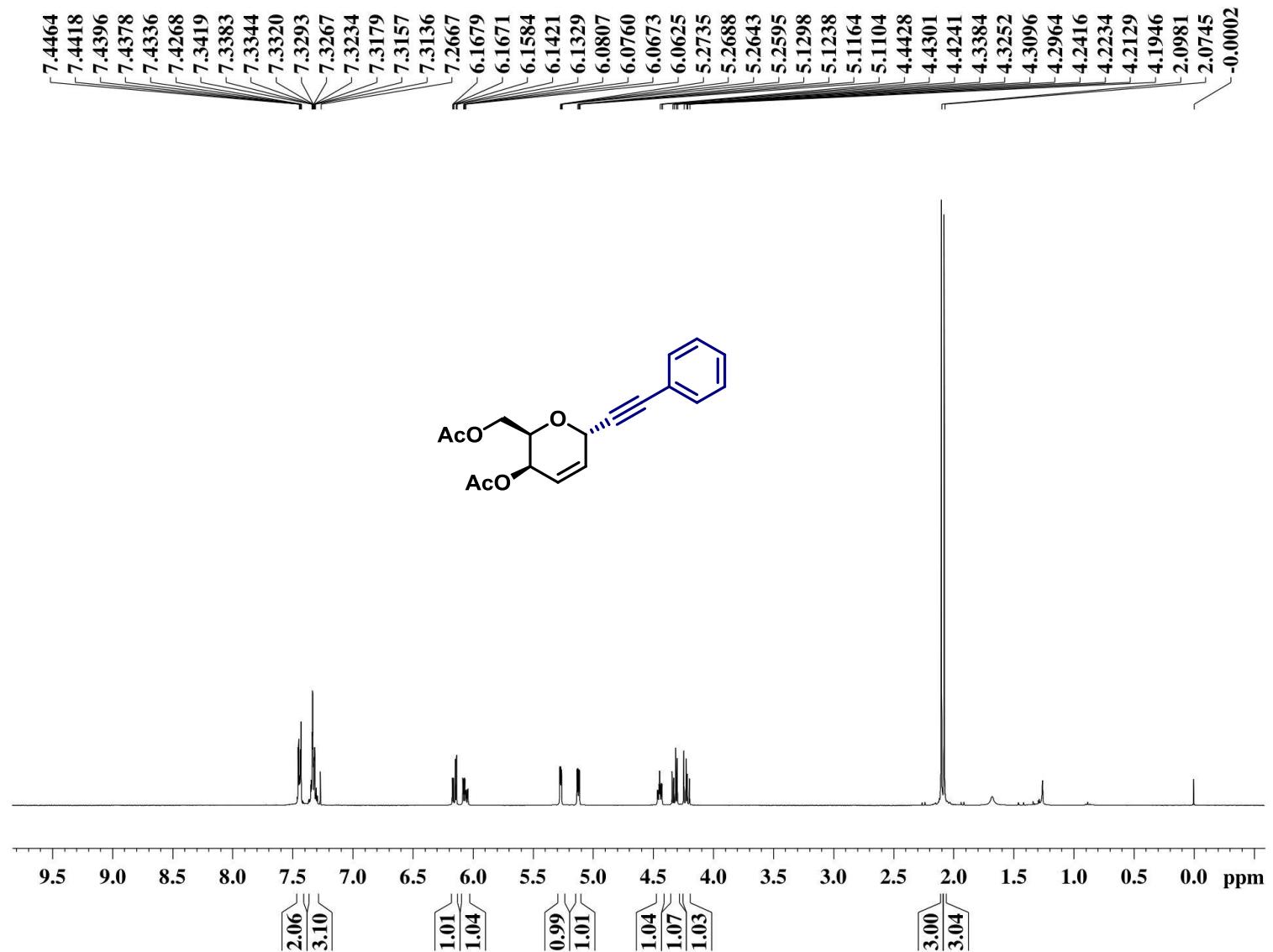




¹H NMR spectrum of **5a** (400 MHz, CDCl₃)



$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **5a** (100 MHz, CDCl_3)



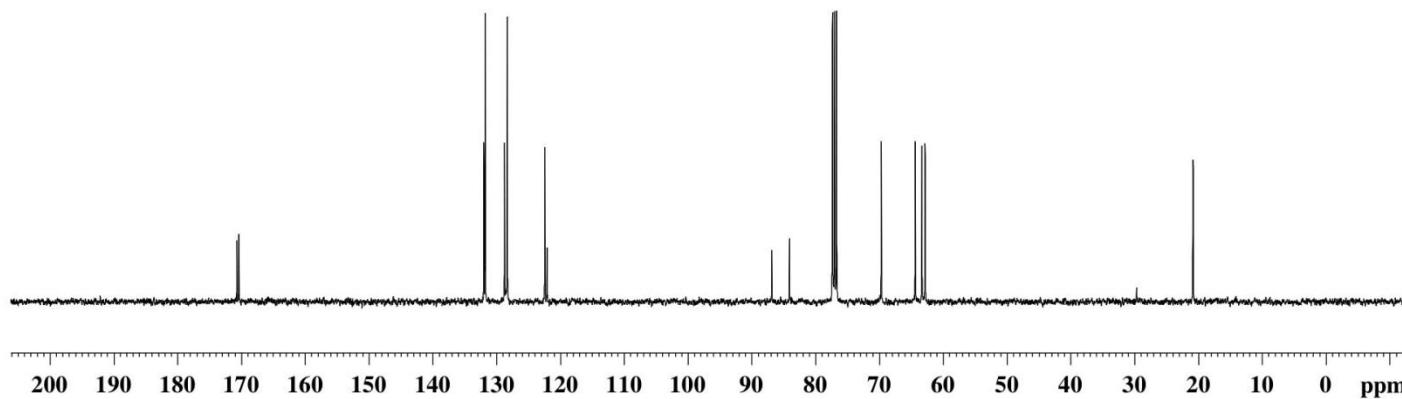
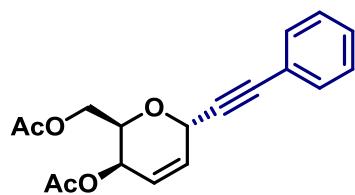
¹H NMR spectrum of **5b** (400 MHz, CDCl₃)

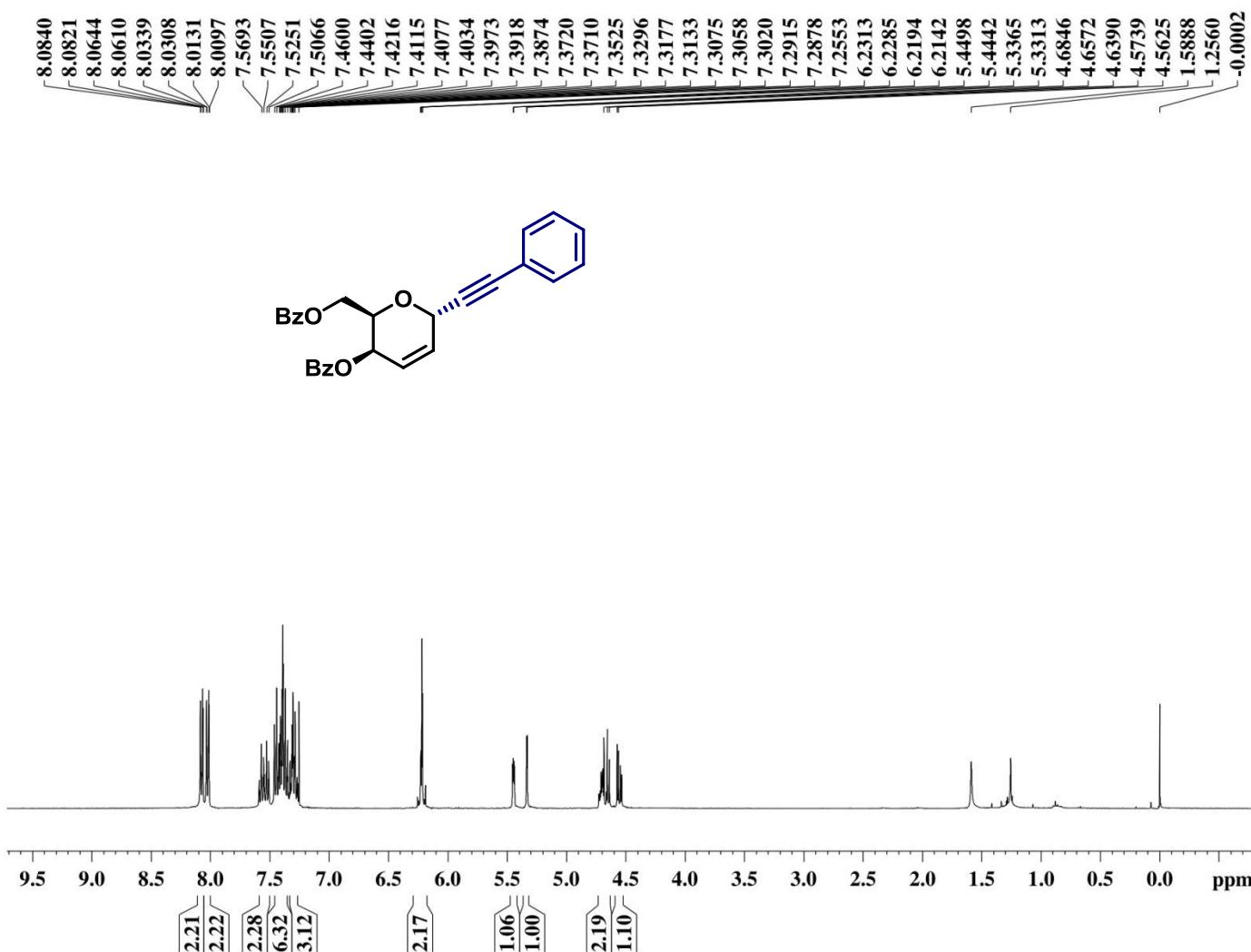
170.74
170.44

132.02
131.82
128.79
128.35
122.47
122.11

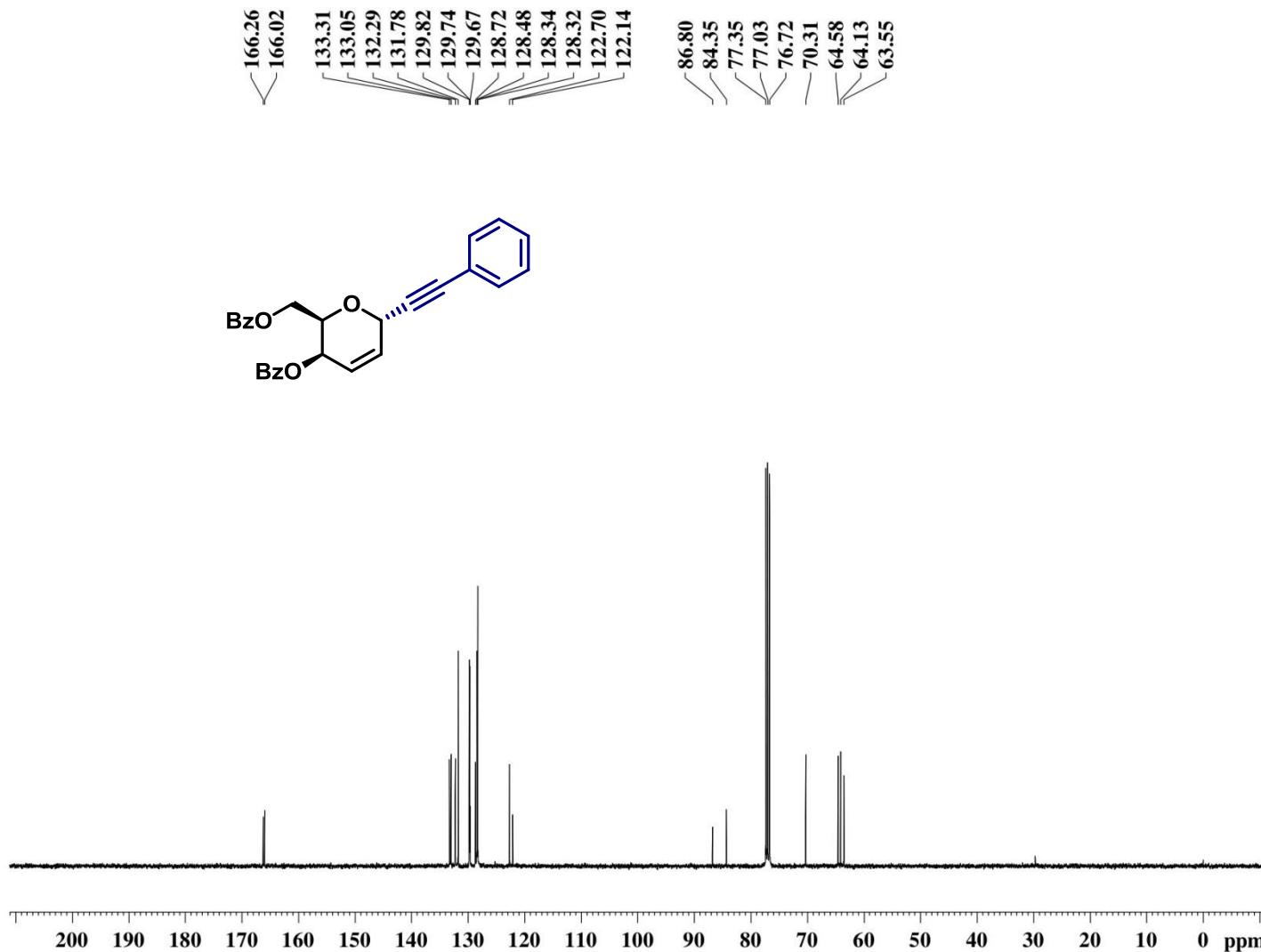
86.89
84.12
77.37
77.05
76.73
69.72
64.40
63.35
62.85

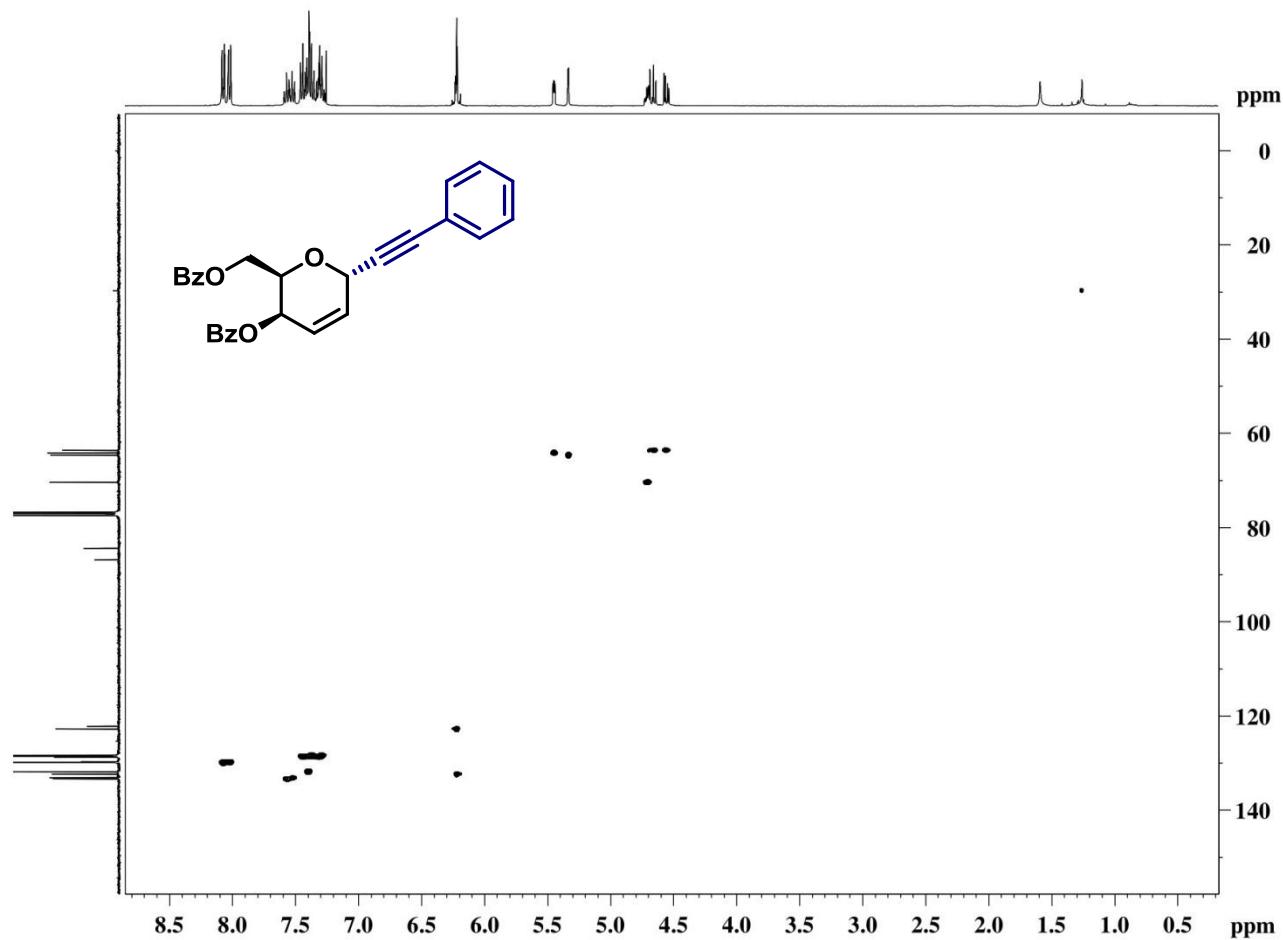
20.87
20.81



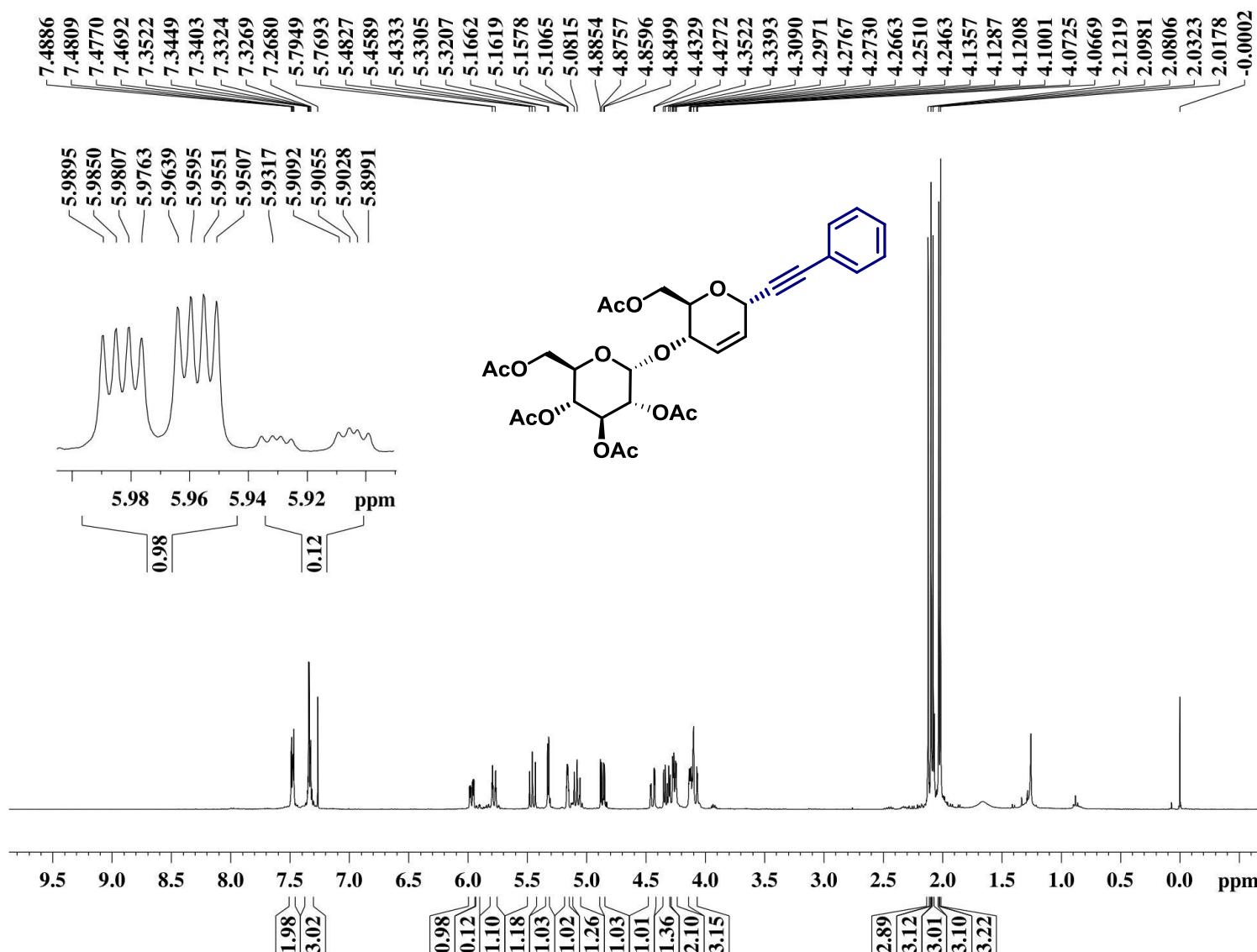


¹H NMR spectrum of **5c** (400 MHz, CDCl₃)

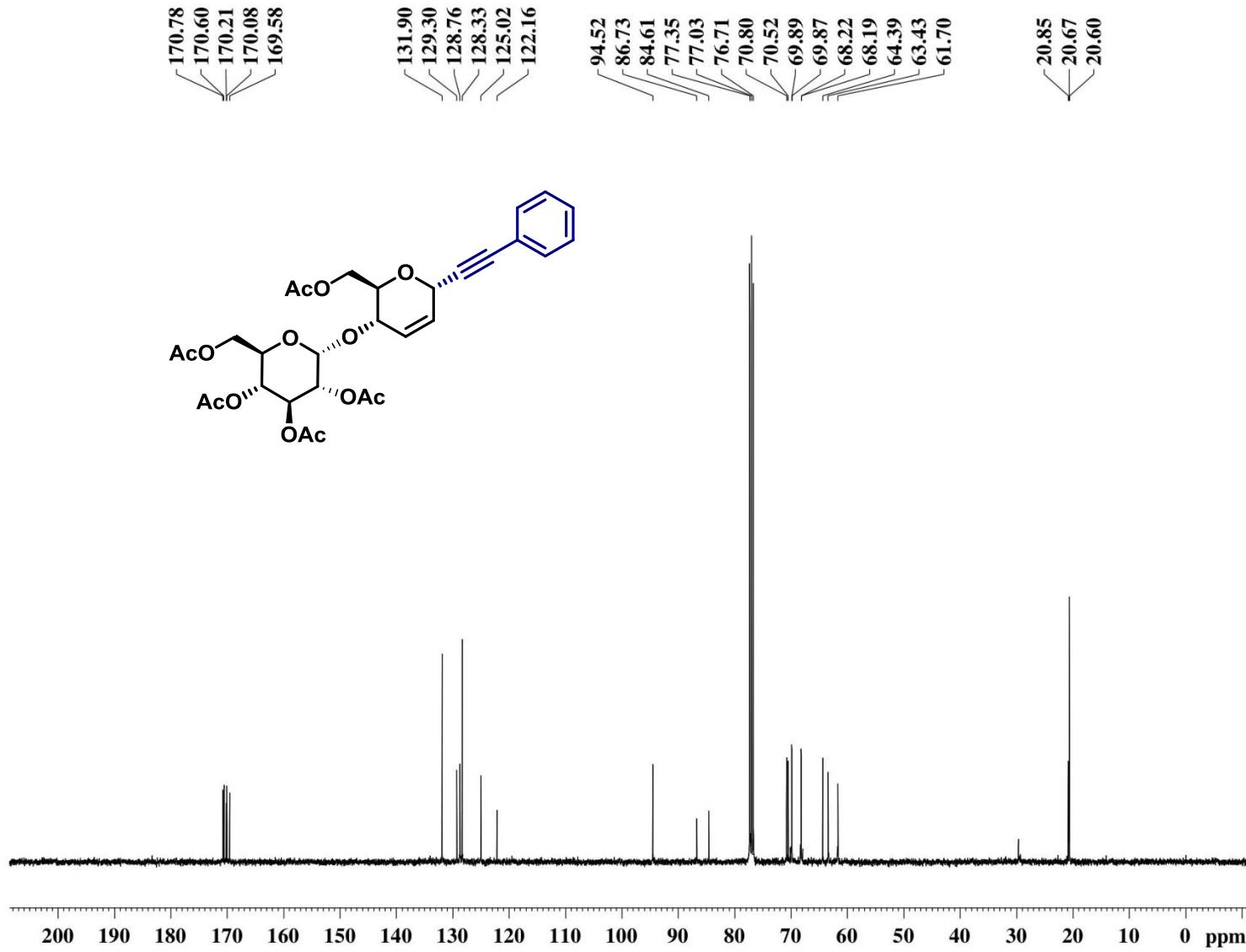


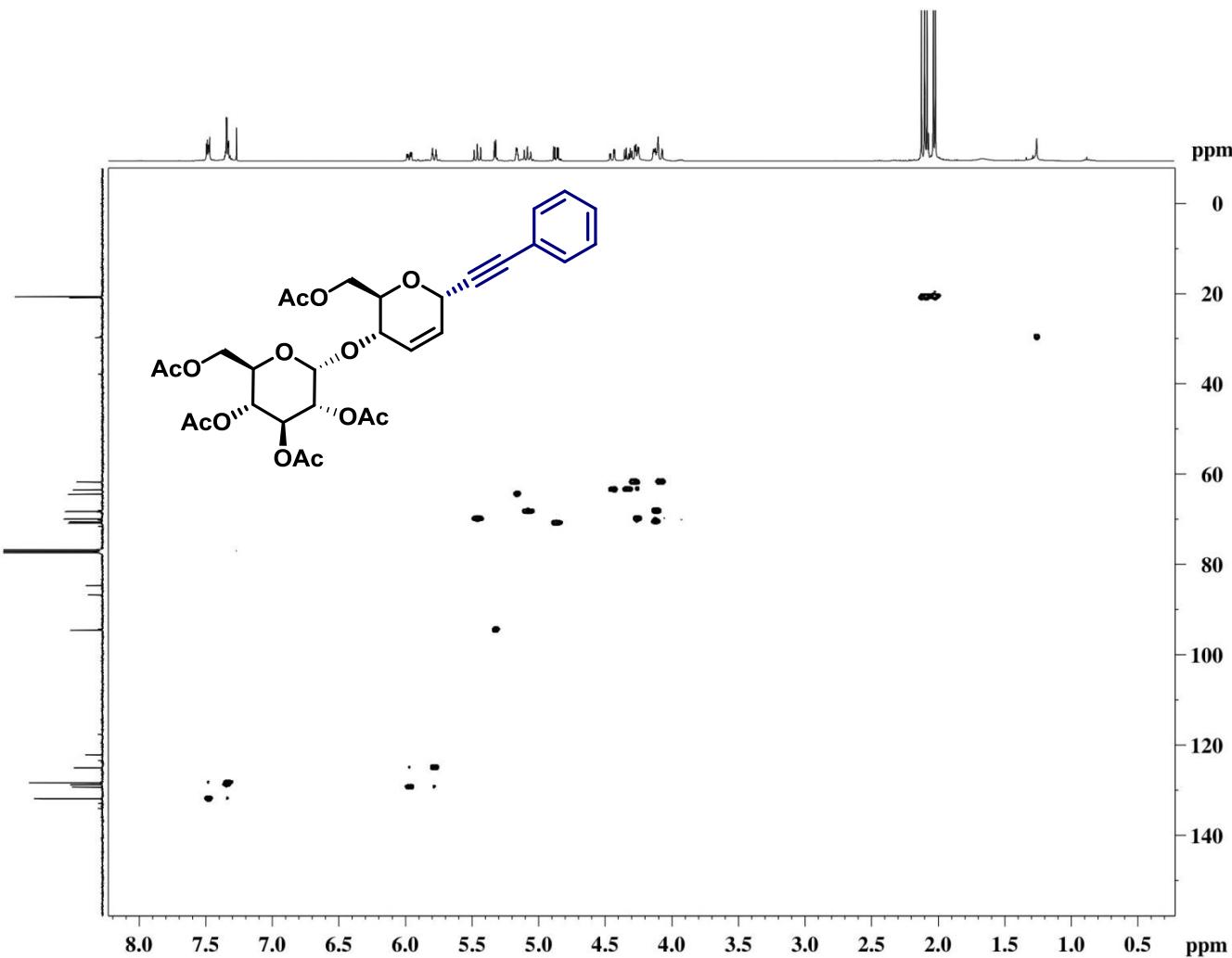


2D-HSQC spectrum of **5c** (400 MHz, CDCl₃)

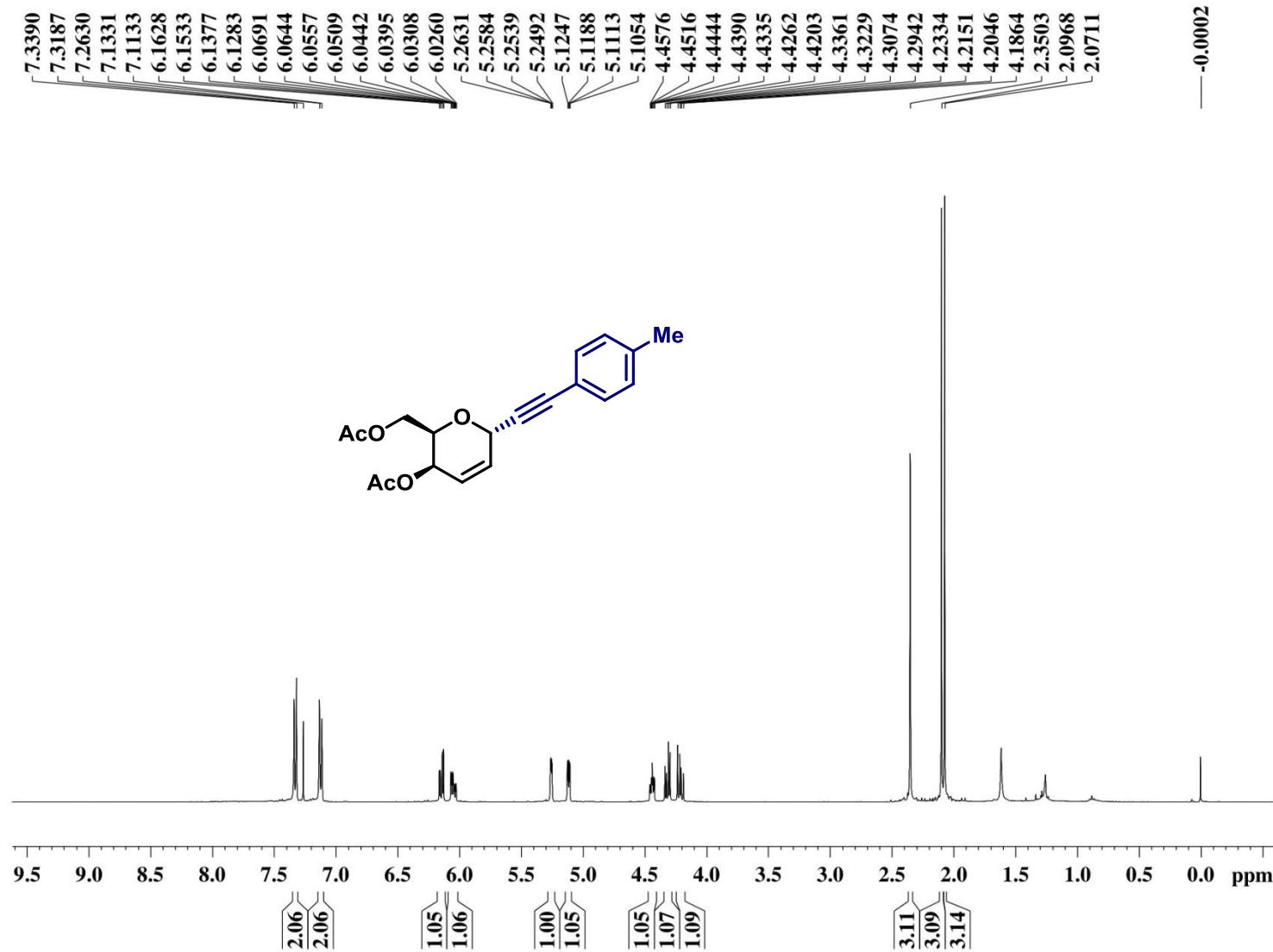


¹H NMR spectrum of **5d** (400 MHz, CDCl_3)

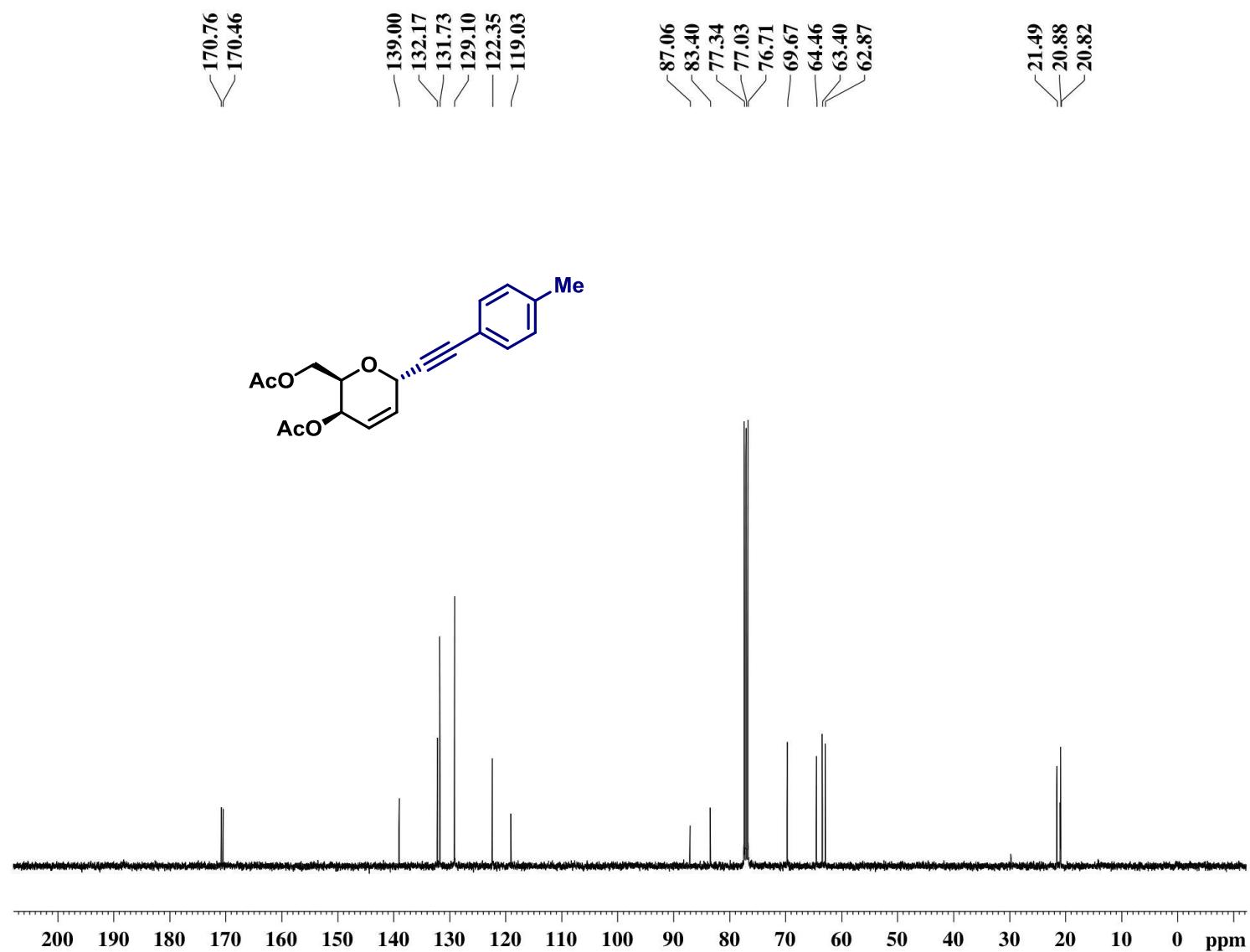




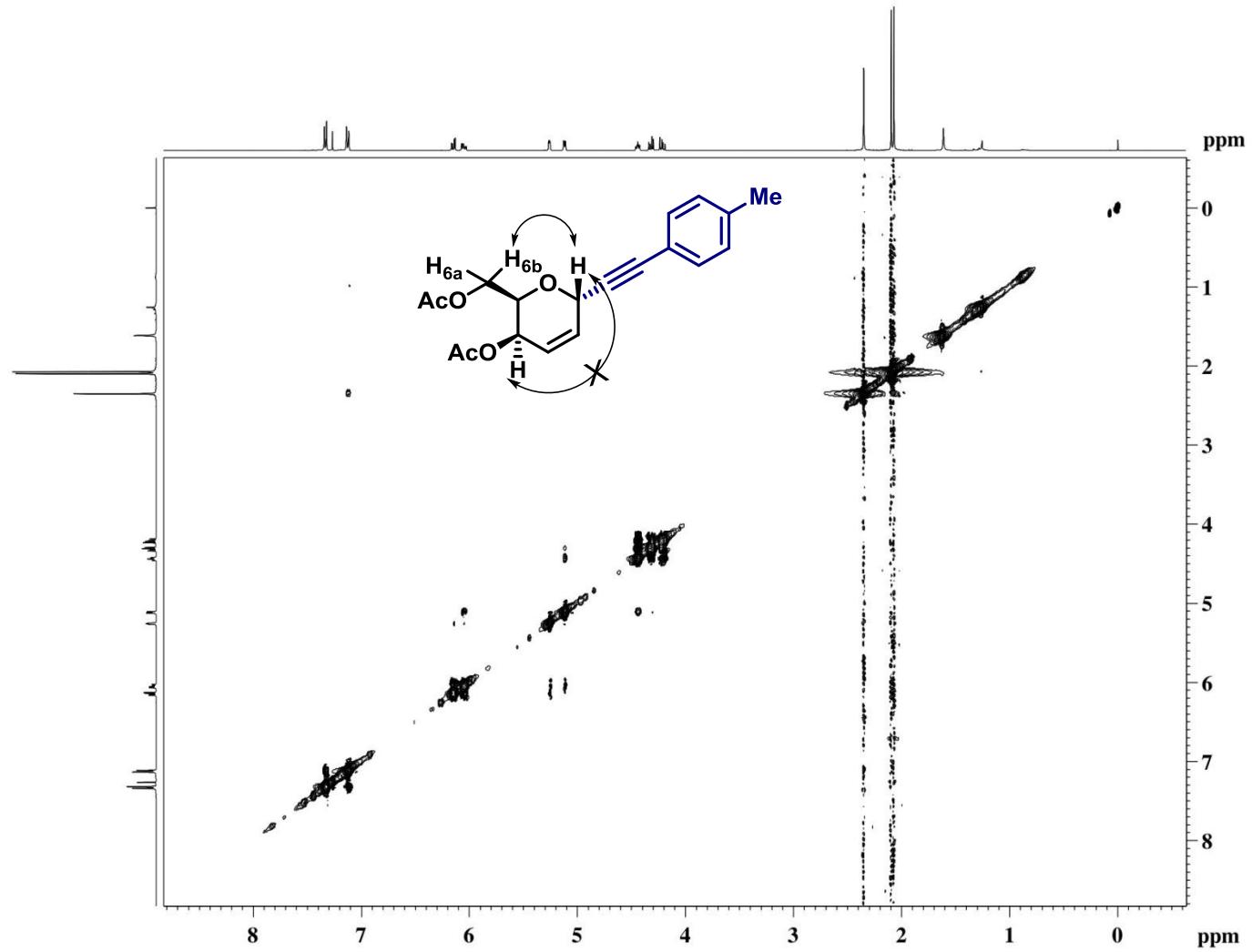
2D-HSQC spectrum of **5d** (400 MHz, CDCl_3)



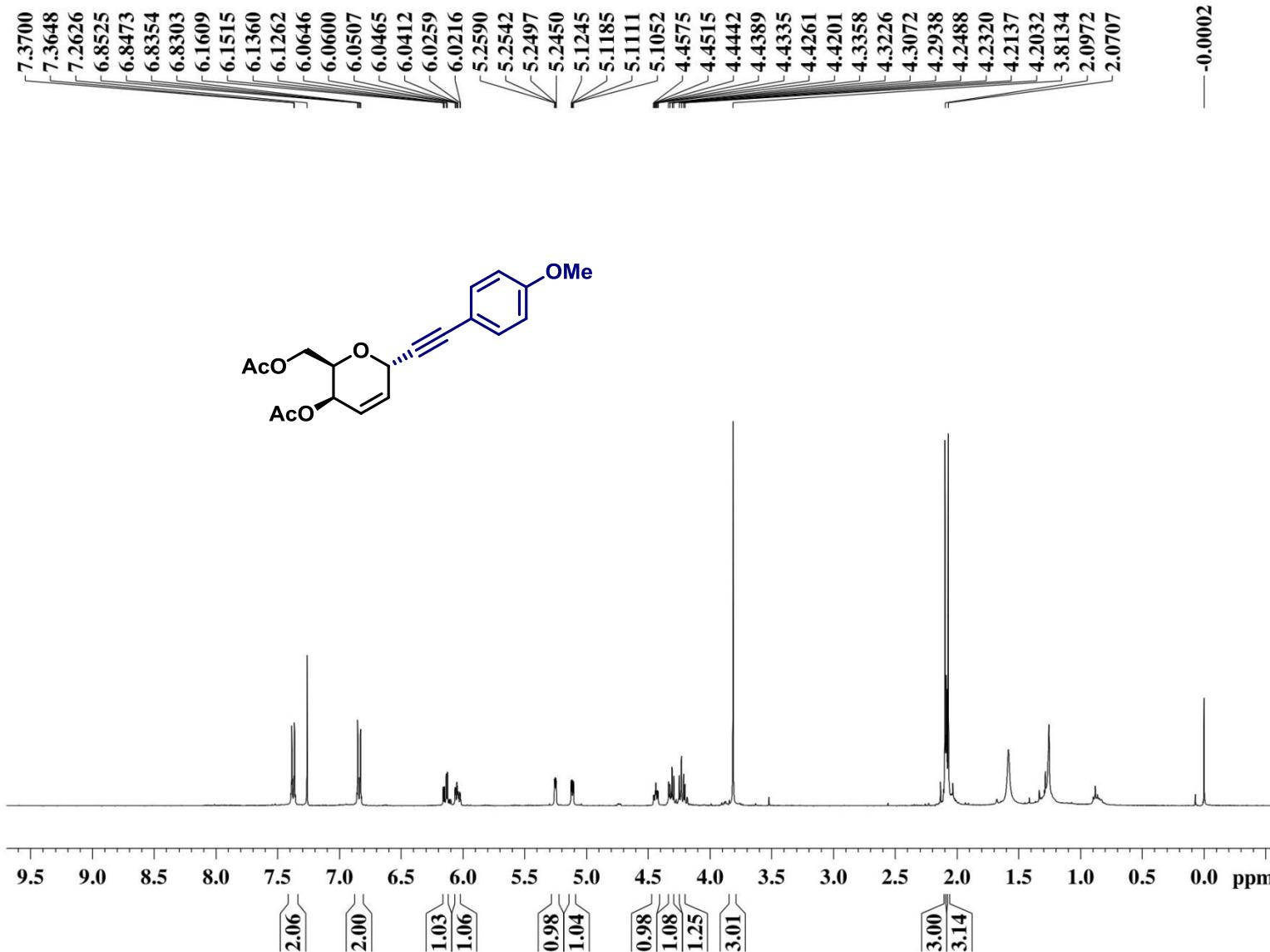
¹H NMR spectrum of **5e** (400 MHz, CDCl₃)



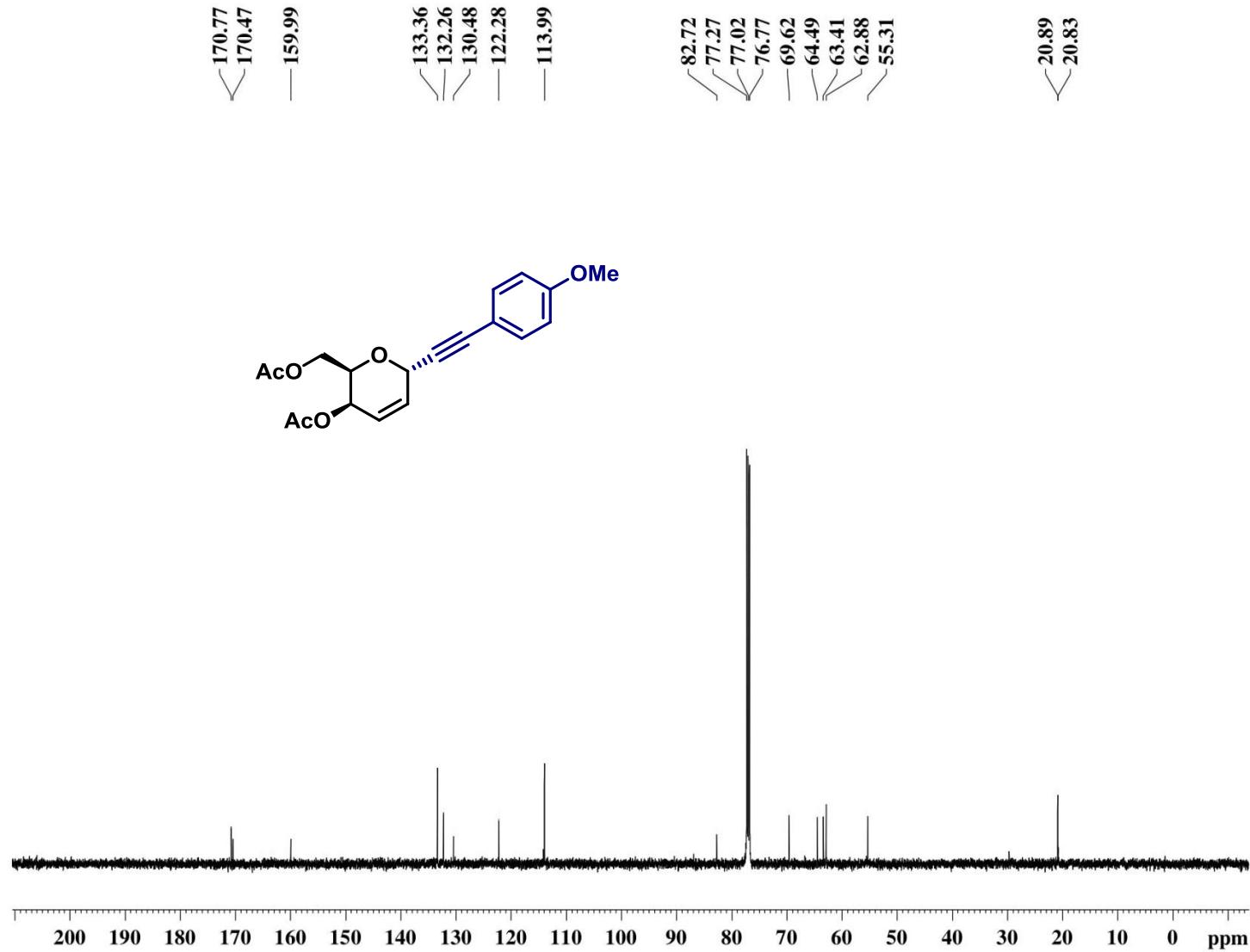
$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **5e** (100 MHz, CDCl_3)



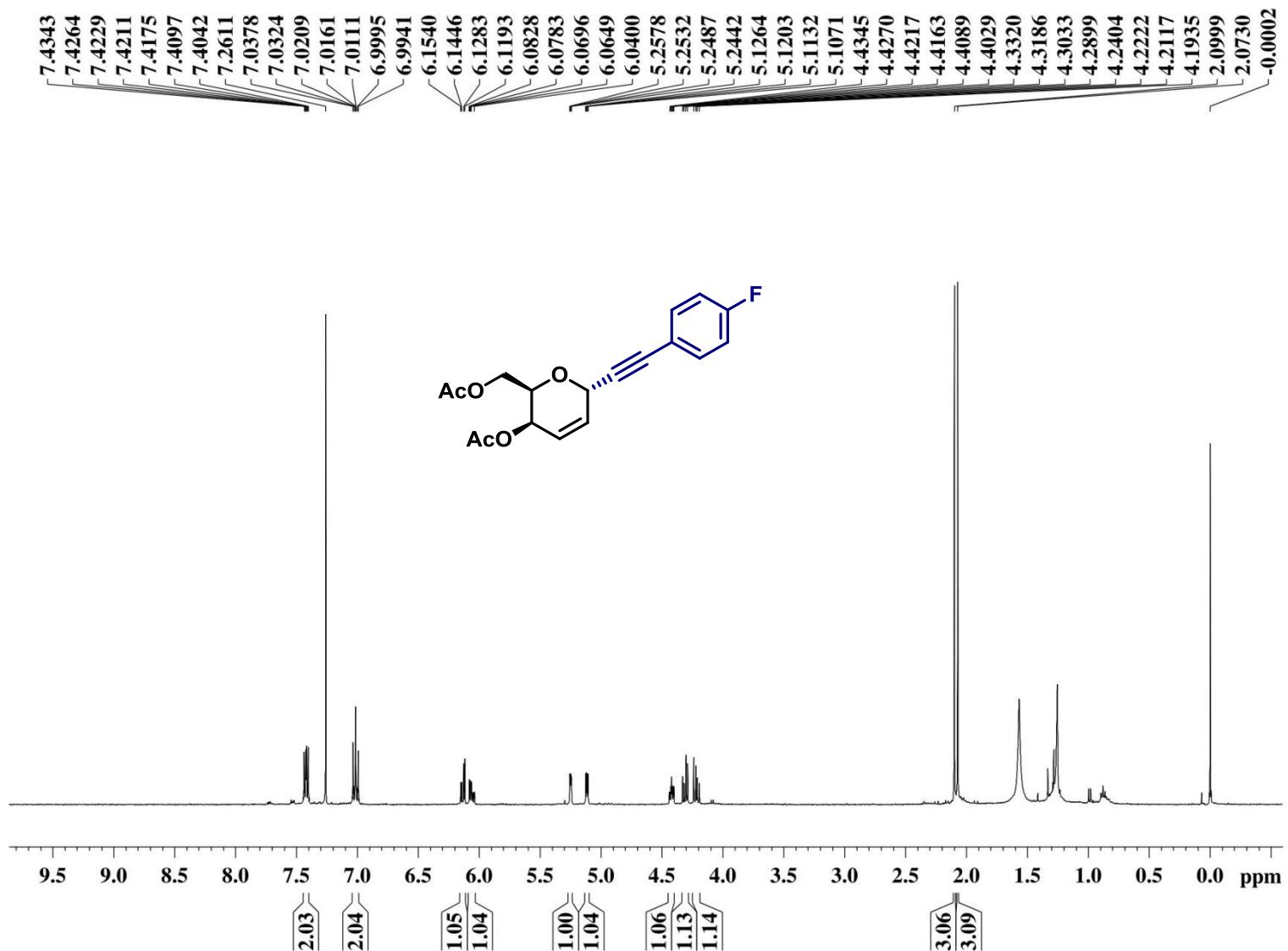
2D-NOESY NMR spectrum of **5e** (400 MHz, CDCl₃)



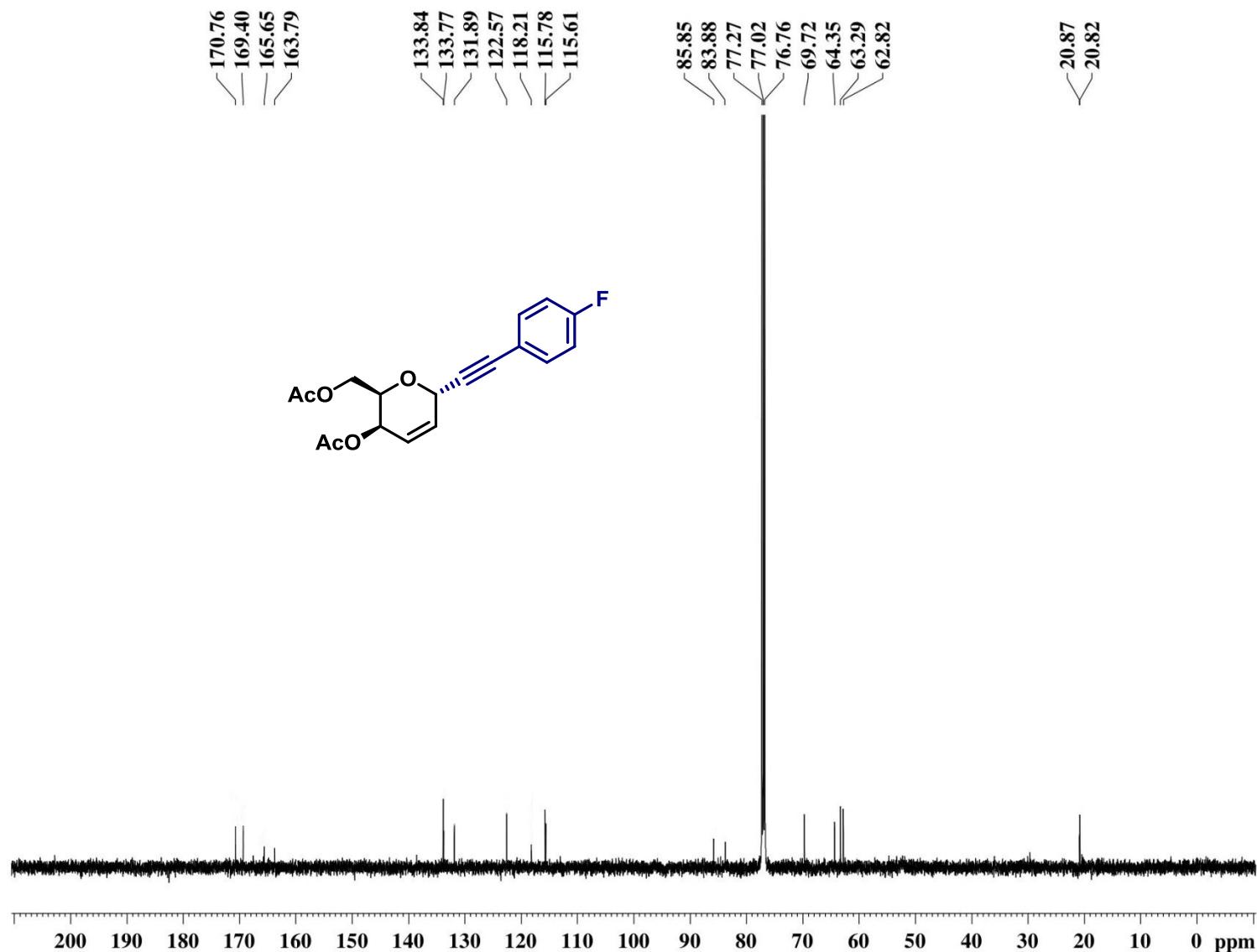
^1H NMR spectrum of **5f** (400 MHz, CDCl_3)

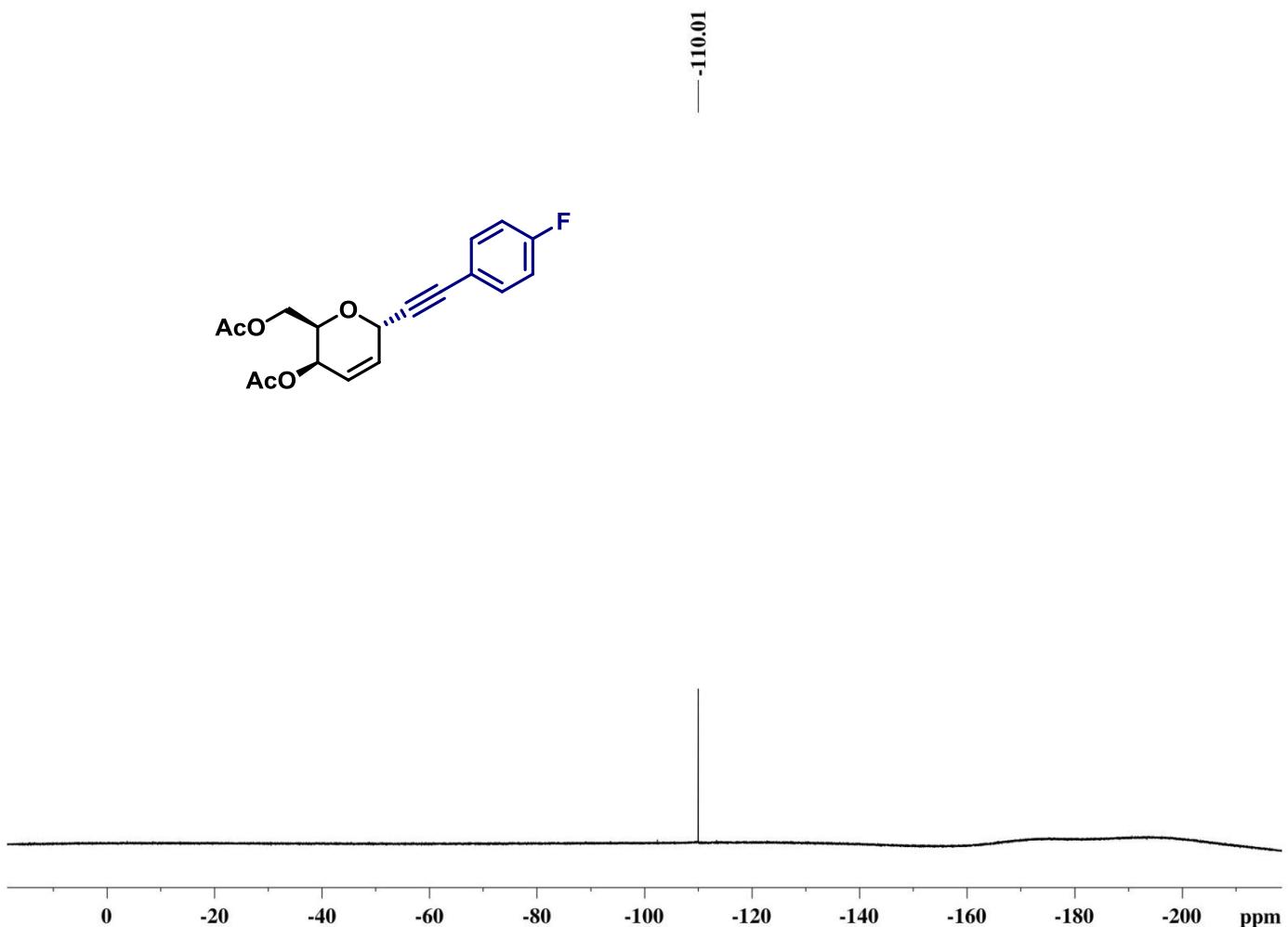


$^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of **5f** (100 MHz, CDCl_3)



¹H NMR spectrum of **5g** (400 MHz, CDCl_3)





^{19}F NMR of **5g** (376 MHz, CDCl_3)