

Supplementary Information for

**Unprecedented influence of remote substituents on reactivity and stereoselectivity in Cu(I)-catalyzed [2+2] photocycloaddition reaction.
An approach towards the synthesis of tricyclocavulone.**

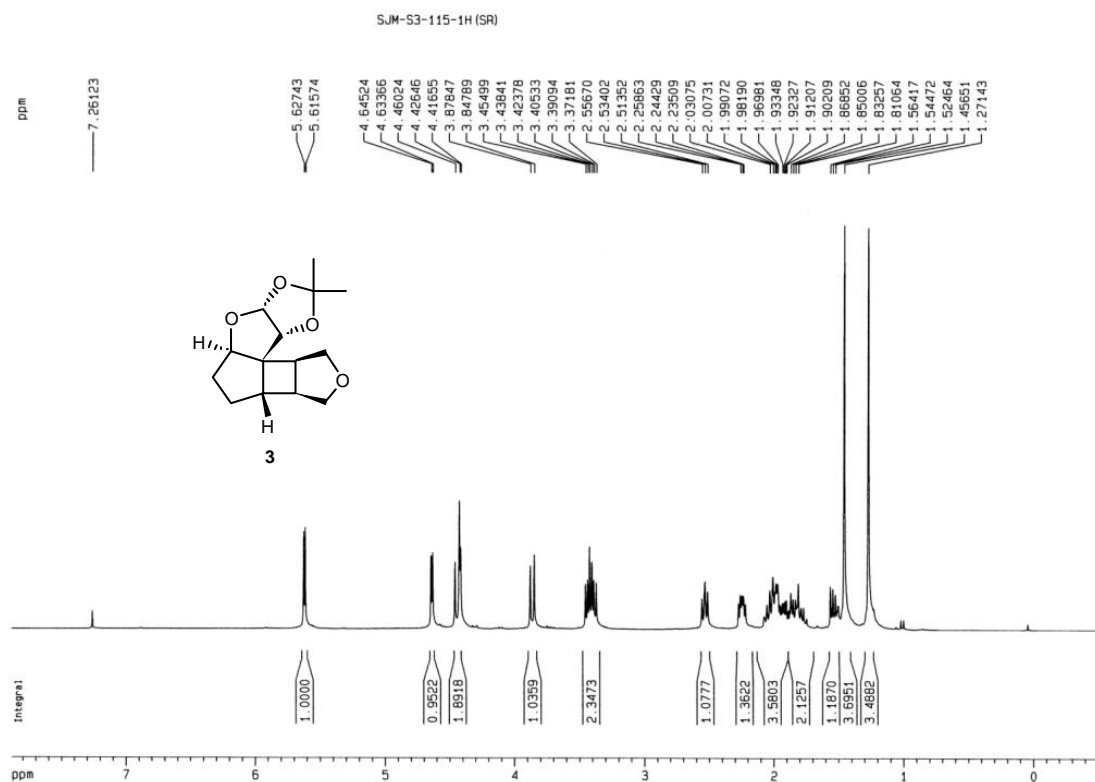
Sujit Mondal, Ram Naresh Yadav and Subrata Ghosh*

*Department of Organic Chemistry, Indian Association for the Cultivation of Science, Jadavpur,
Kolkata 700 032, India*

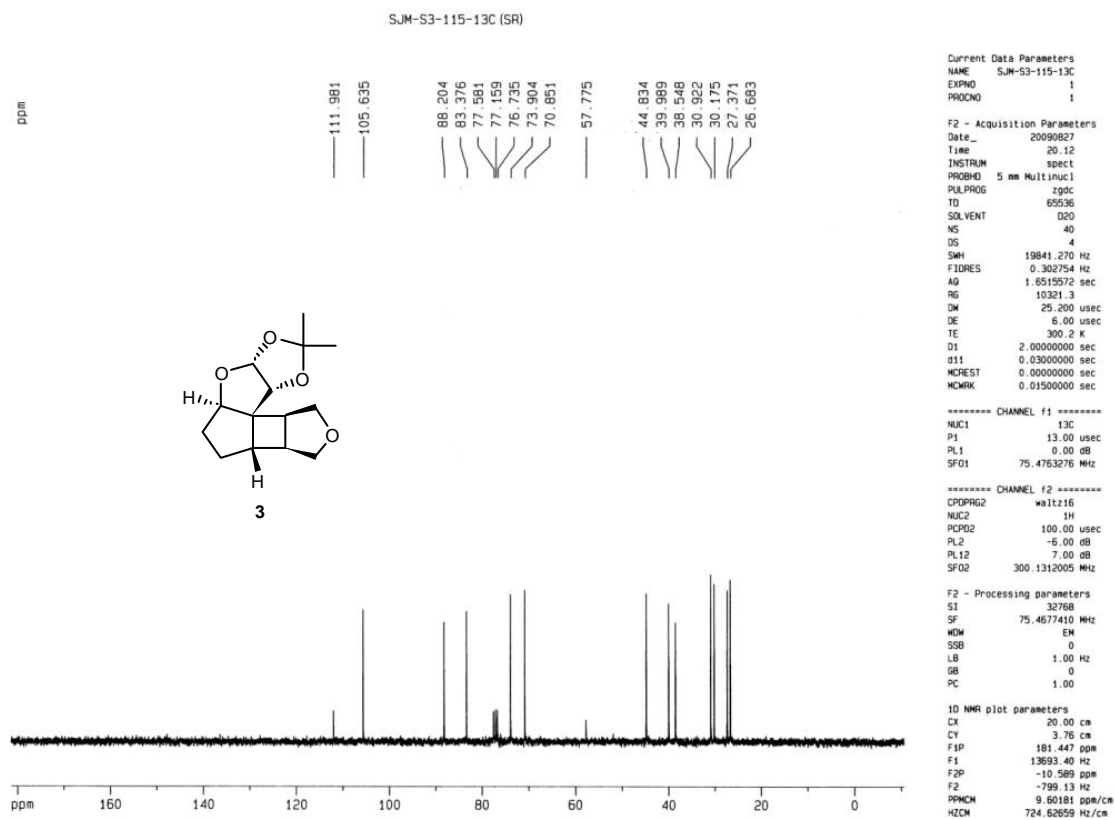
ocsg@iacs.res.in

(¹H & ¹³C NMR Spectra for all new compounds **3-41 and 2D NMR
& NOE Spectra for **27** along with DEPT spectrum for **41**)**

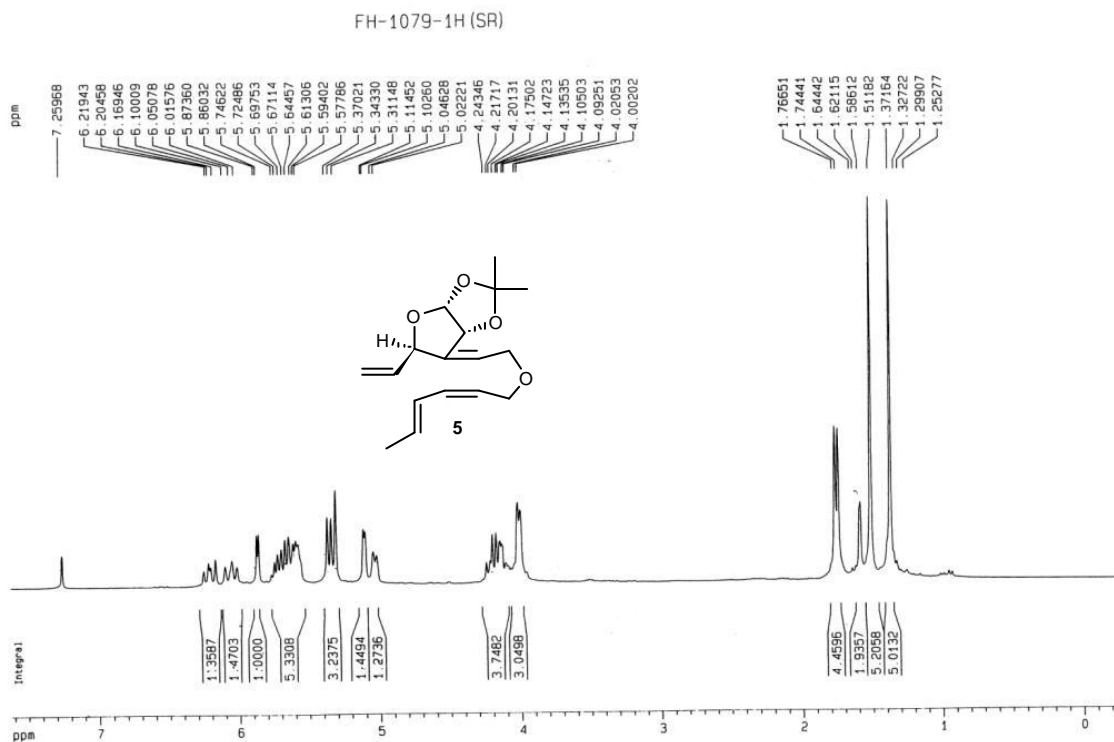
¹H NMR of **3** in CDCl₃ (300 MHz)



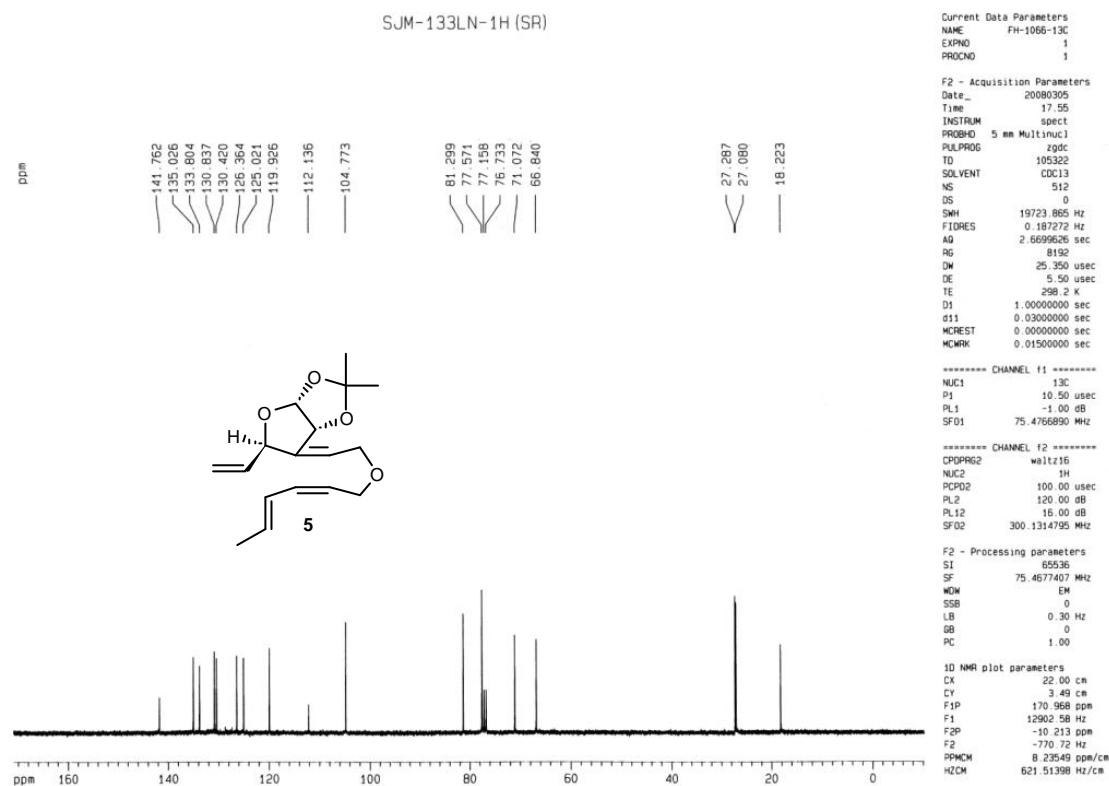
¹³C NMR of **3** in CDCl₃ (75 MHz)



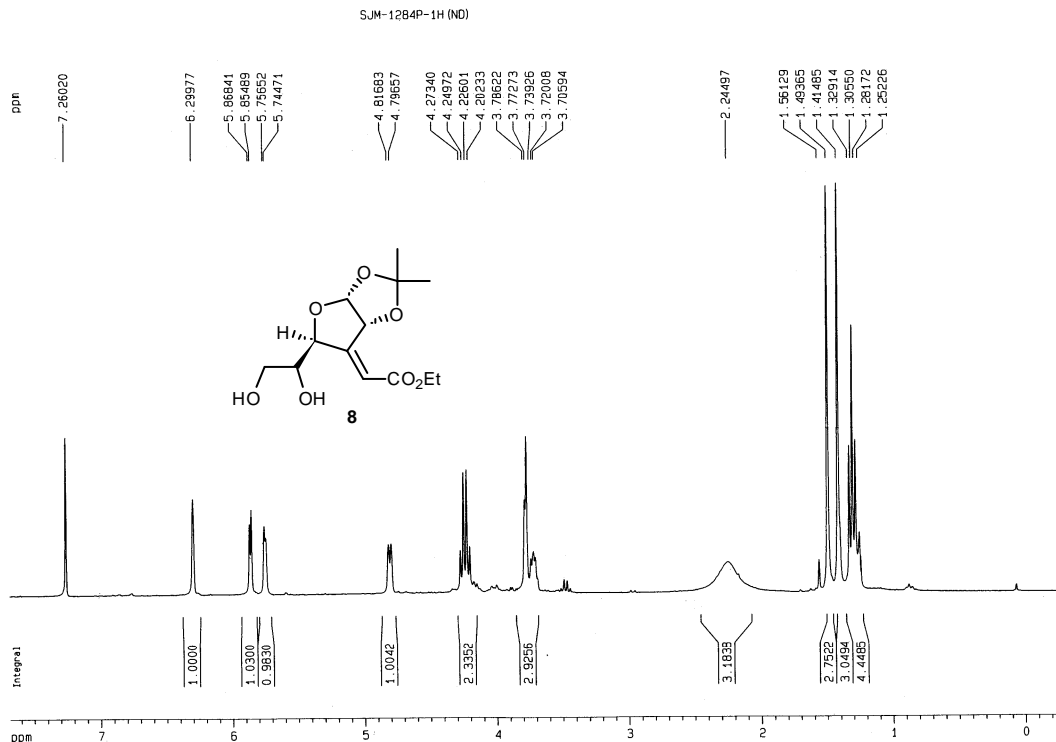
^1H NMR of **5** in CDCl_3 (300 MHz)



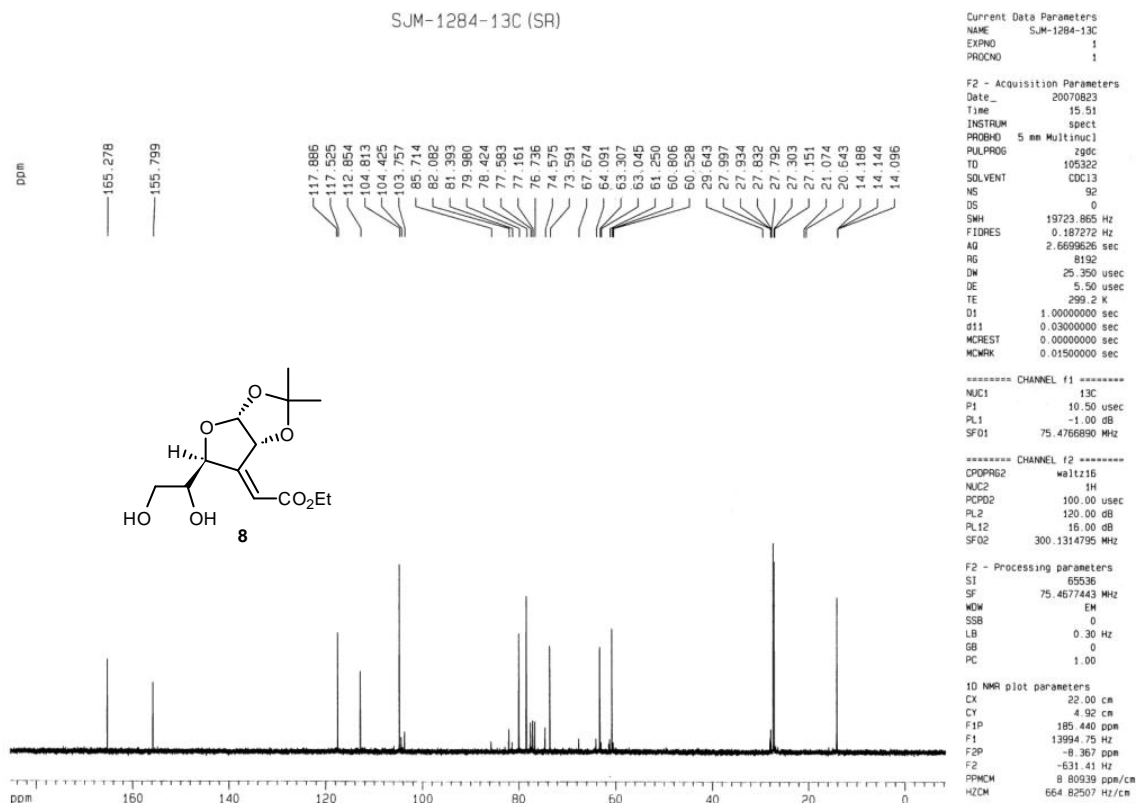
^{13}C NMR of **5** in CDCl_3 (75 MHz)



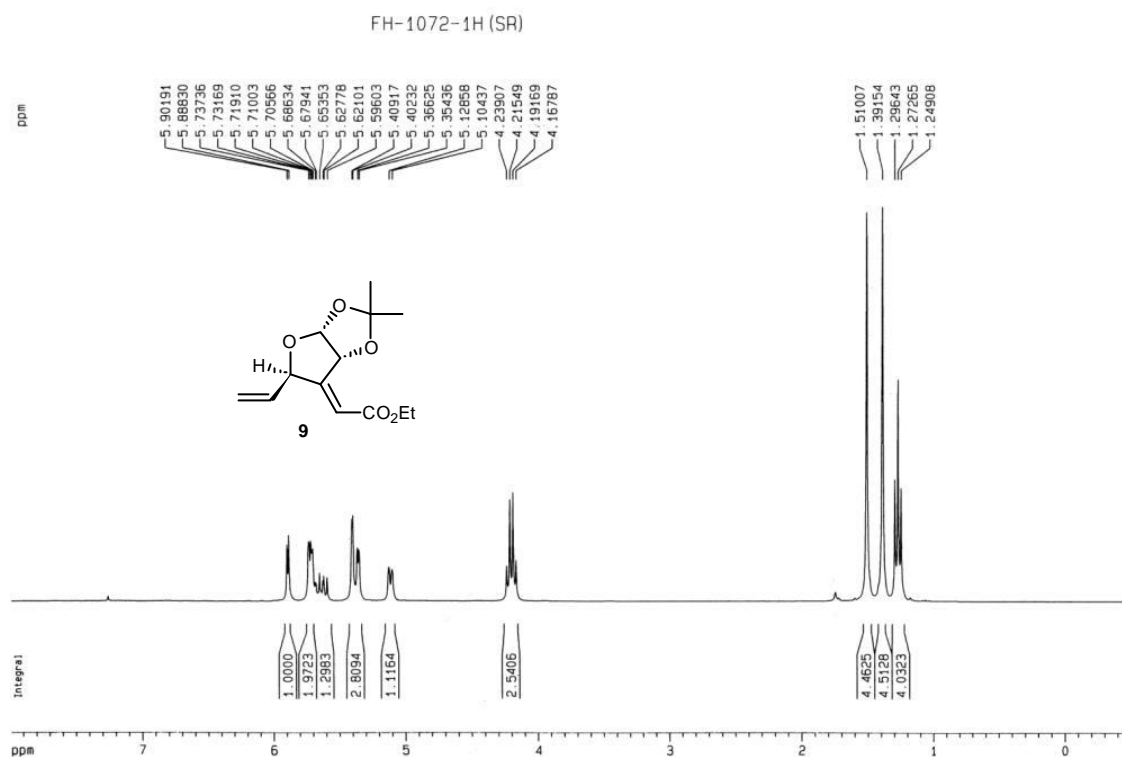
¹H NMR of **8** in CDCl₃ (300 MHz)



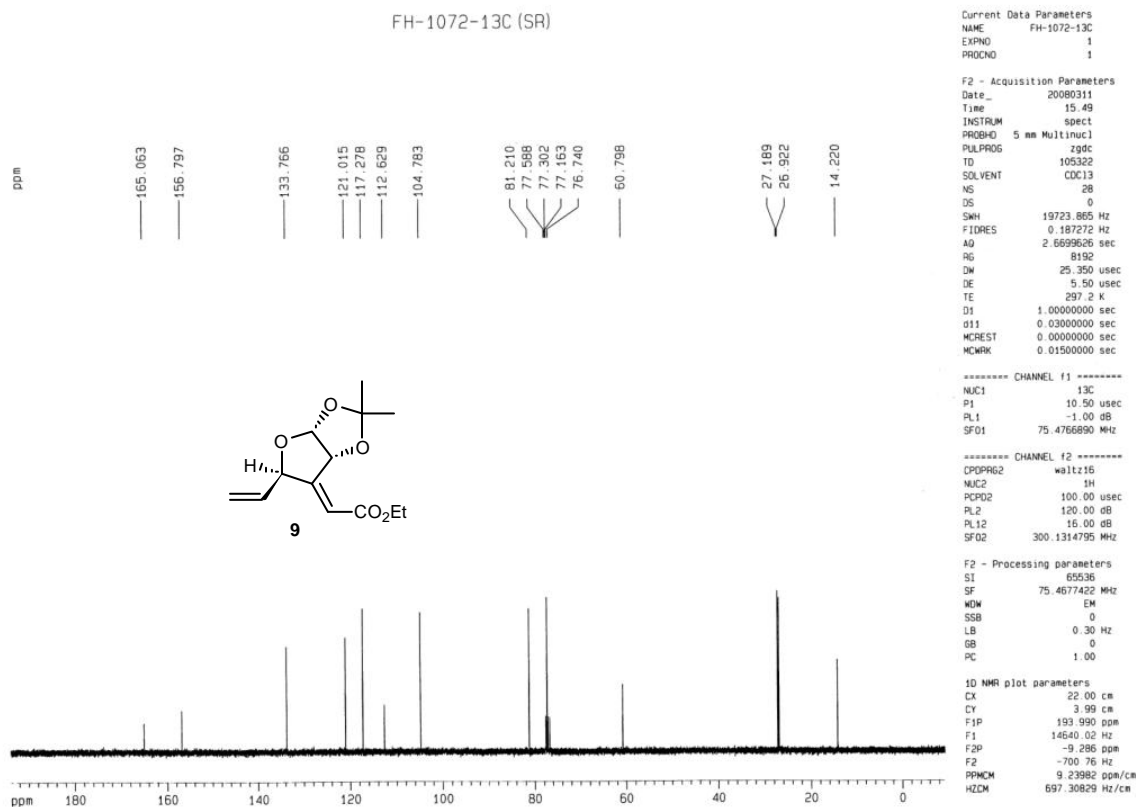
¹³C NMR of **8** in CDCl₃ (75 MHz)



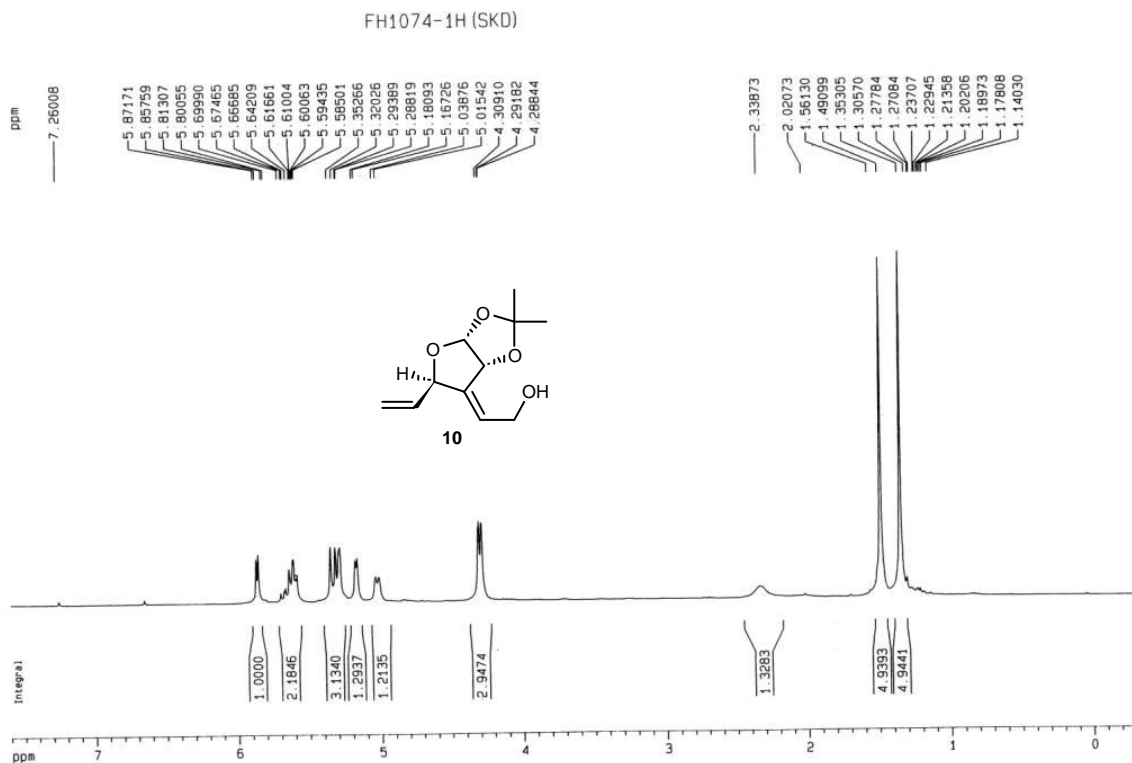
^1H NMR of **9** in CDCl_3 (300 MHz)



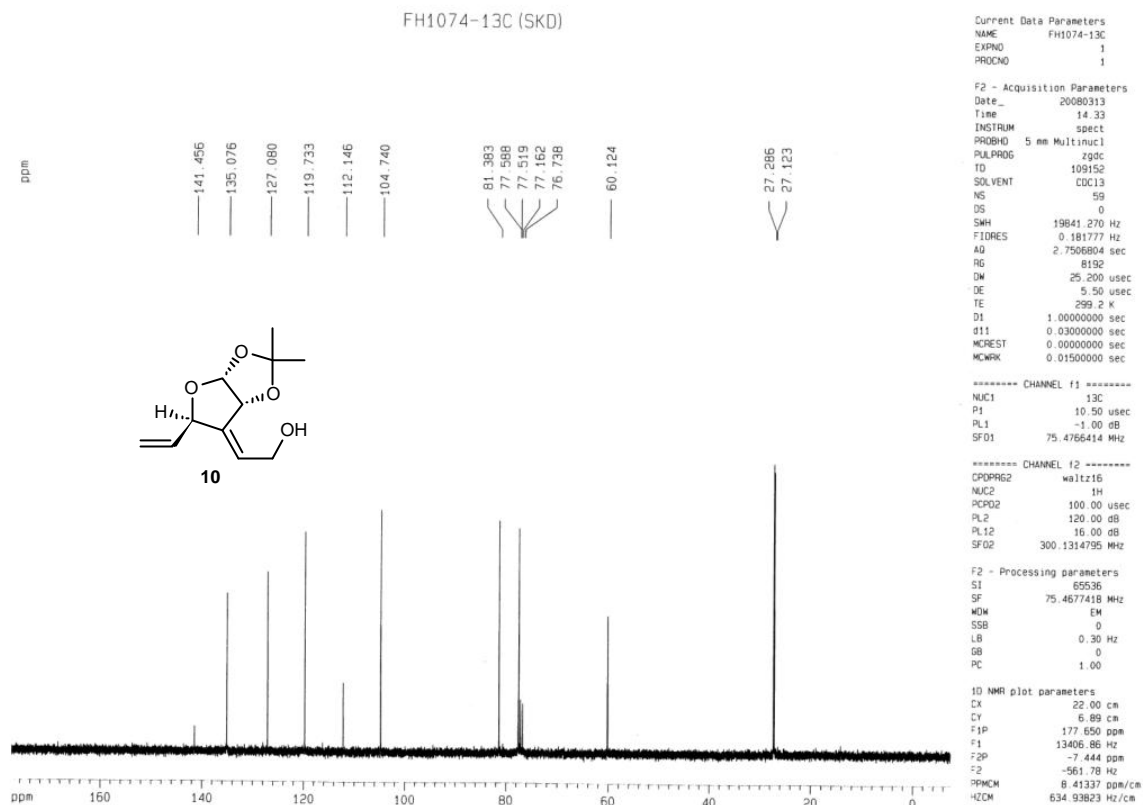
^{13}C NMR of **9** in CDCl_3 (75 MHz)



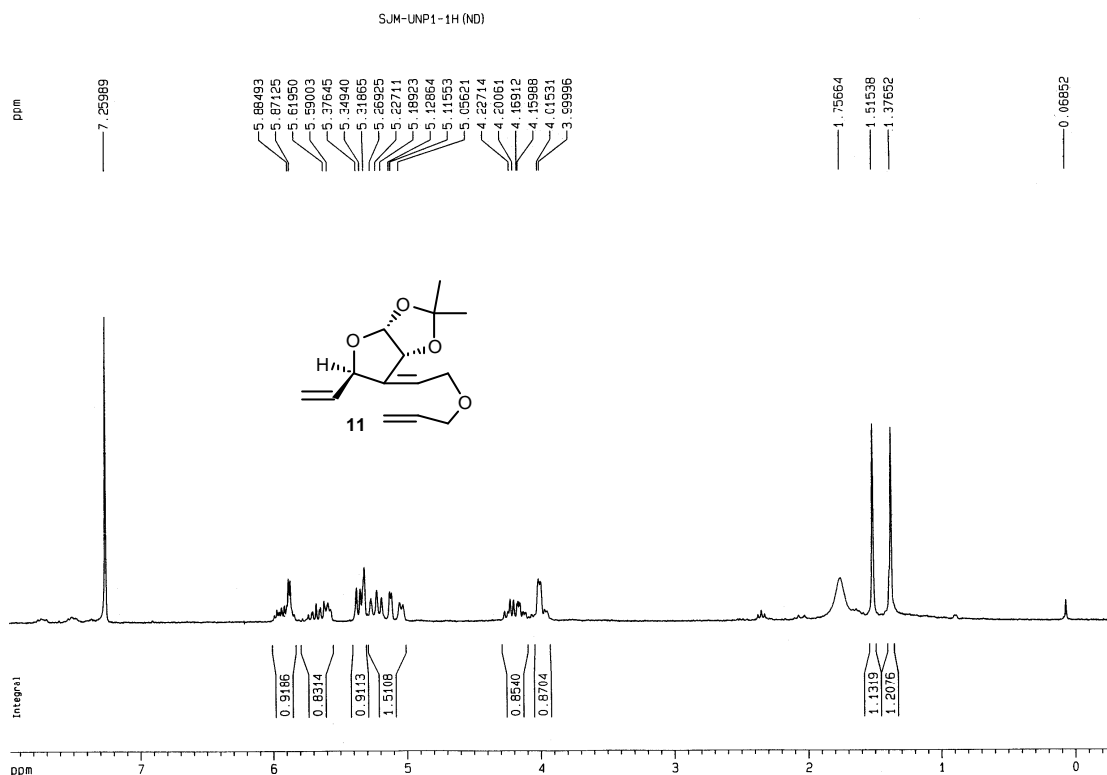
¹H NMR of **10** in CDCl₃ (300 MHz)



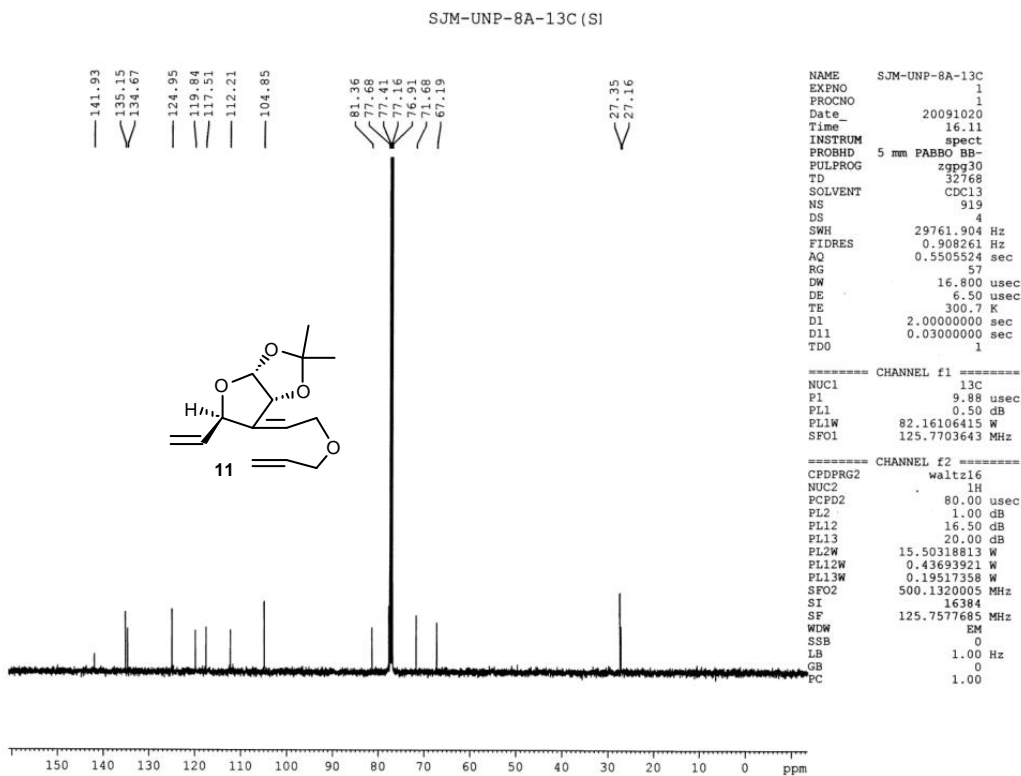
¹³C NMR of **10** in CDCl₃ (75 MHz)



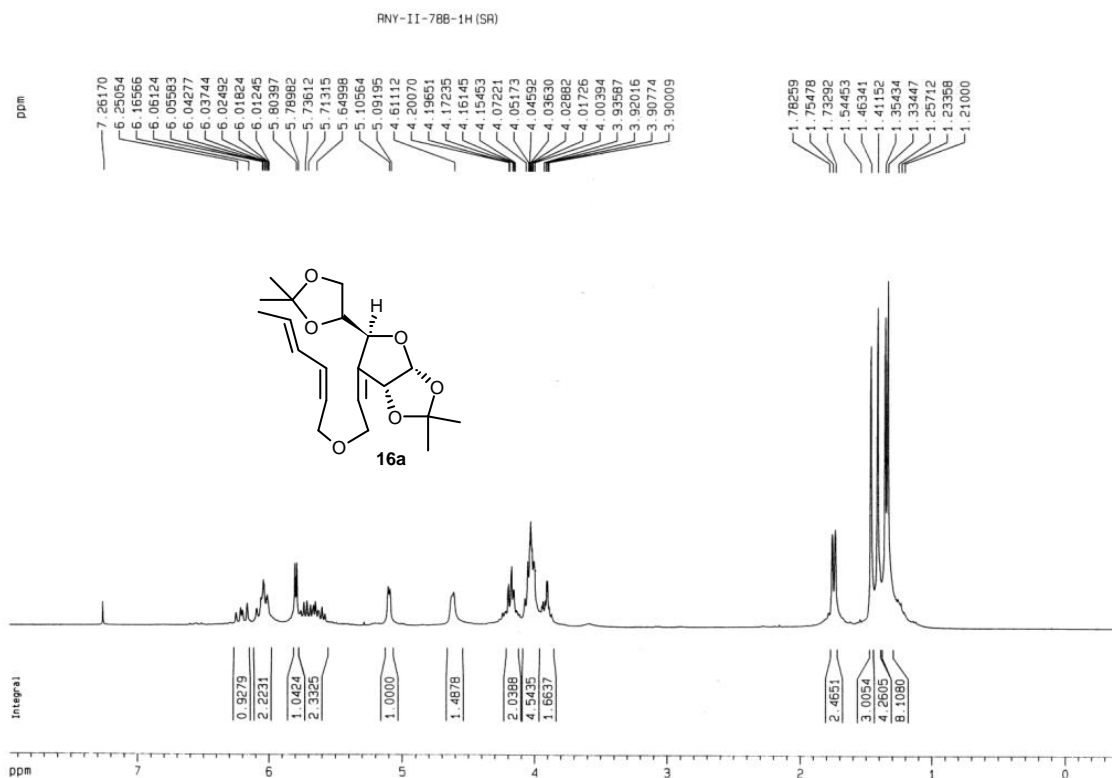
¹H NMR of **11** in CDCl₃ (300 MHz)



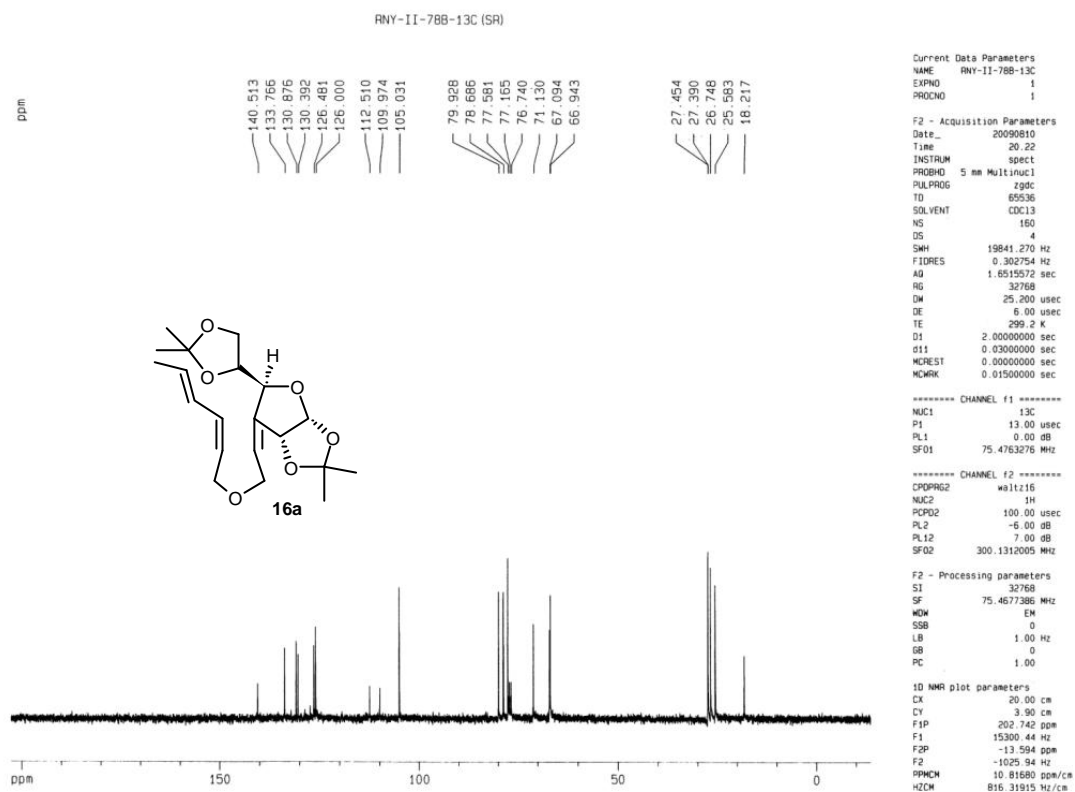
¹³C NMR of **11** in CDCl₃ (125 MHz)



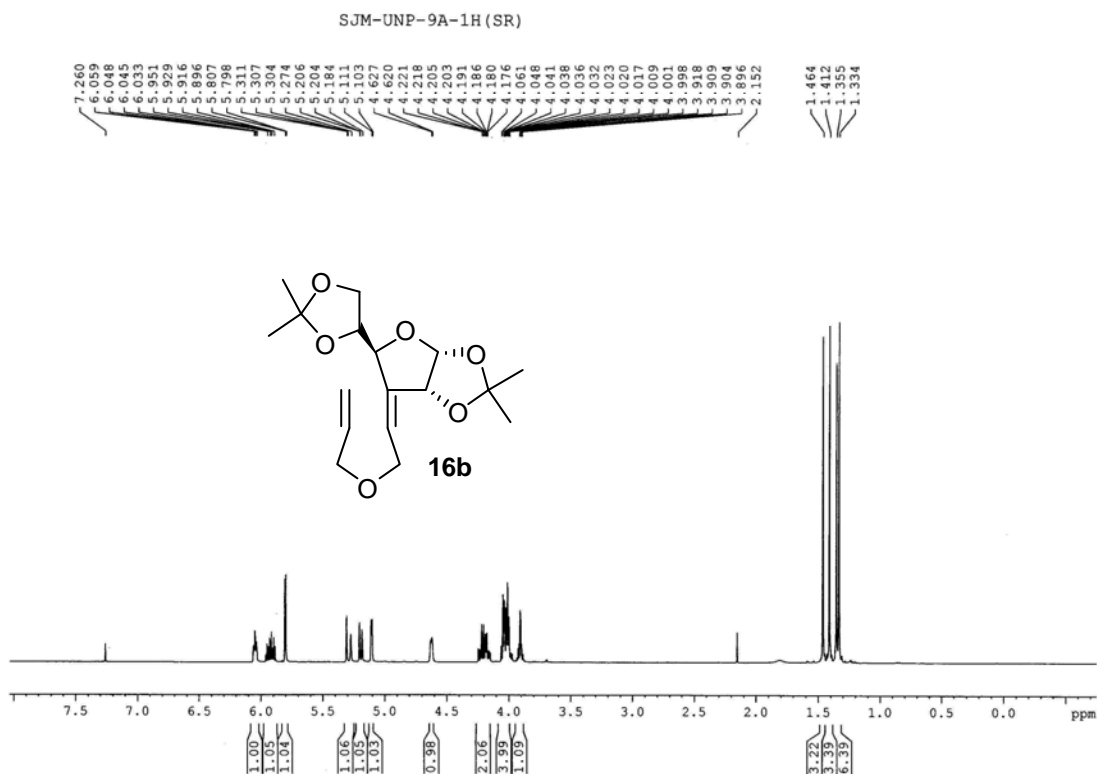
¹H NMR of **16a** in CDCl₃ (300 MHz)



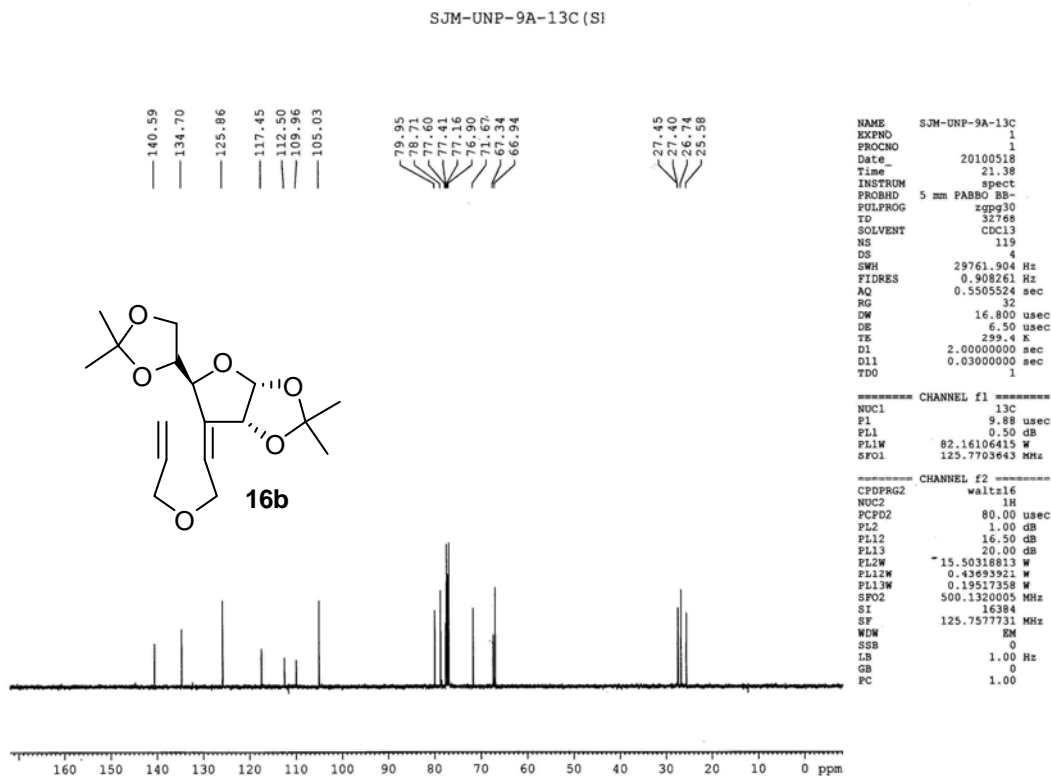
¹³C NMR of **16a** in CDCl₃ (75 MHz)

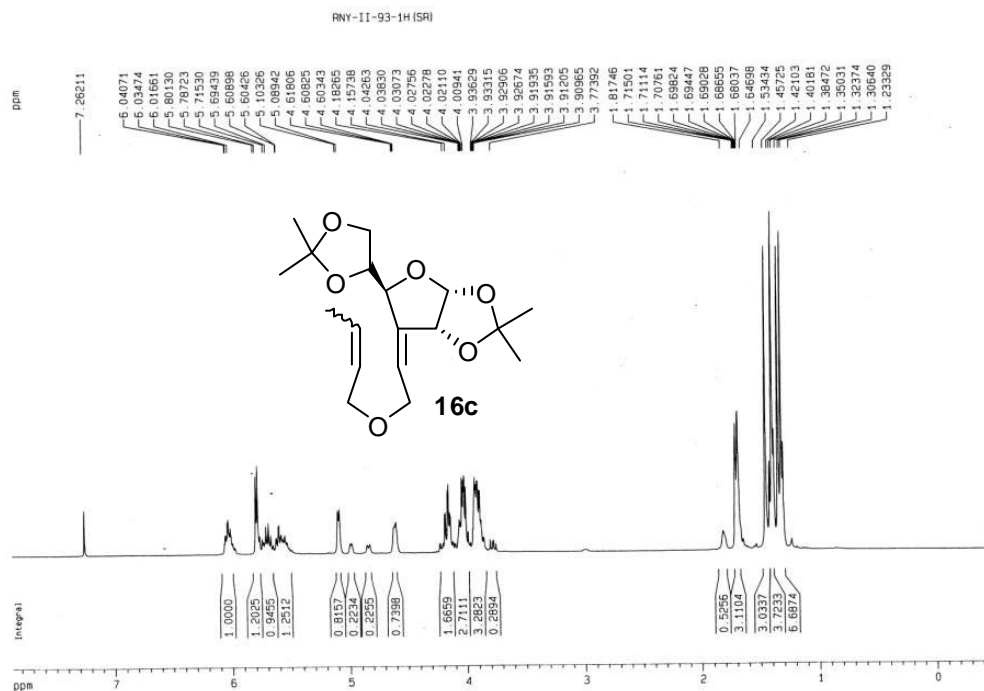
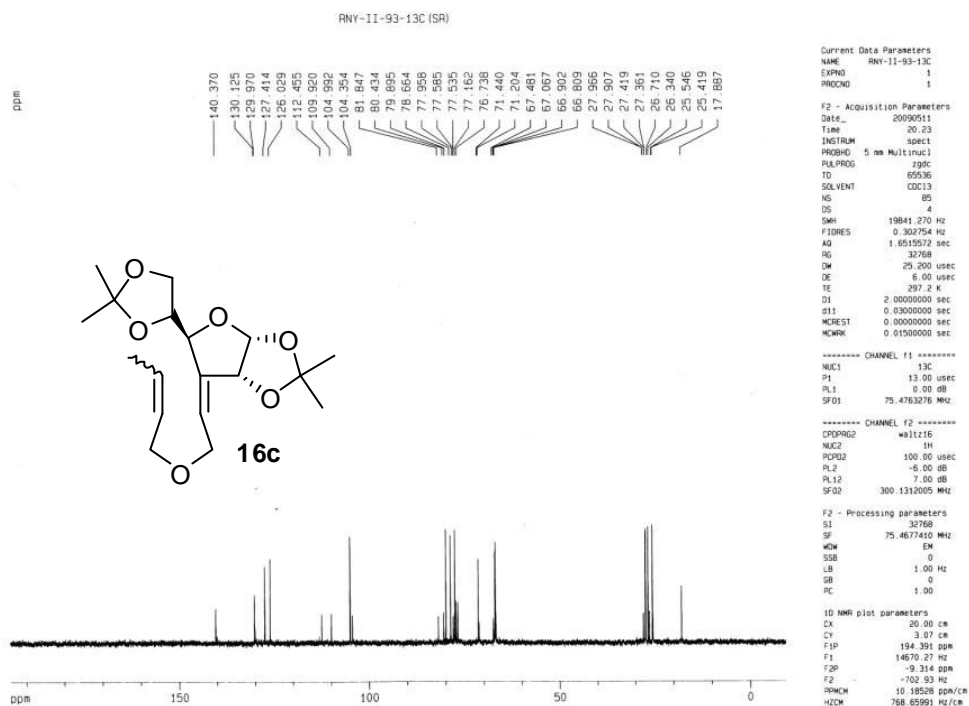


^1H NMR of **16b** in CDCl_3 (500 MHz)

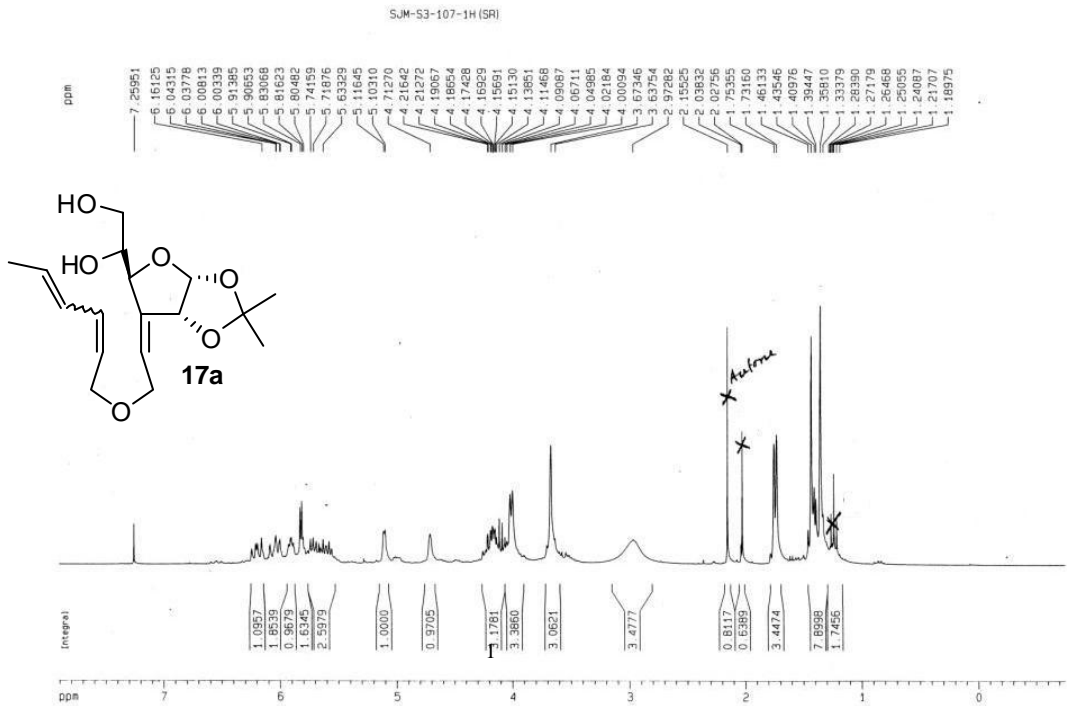


^{13}C NMR of **16b** in CDCl_3 (125 MHz)

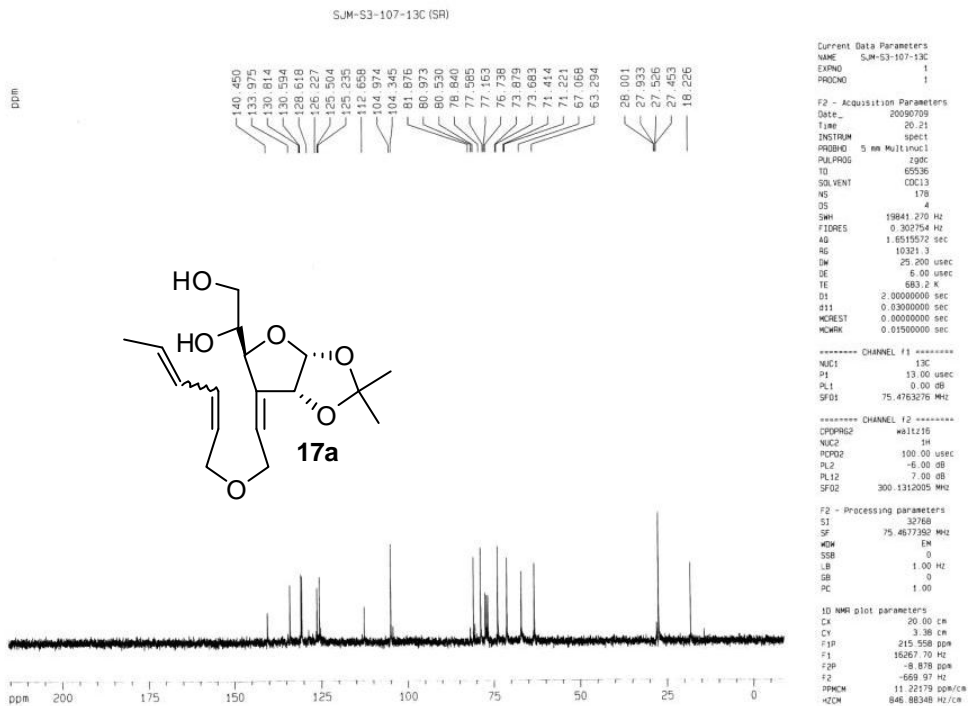


¹H NMR of **16c** in CDCl₃ (300 MHz) ^{13}C NMR of **16c** in CDCl_3 (75 MHz)

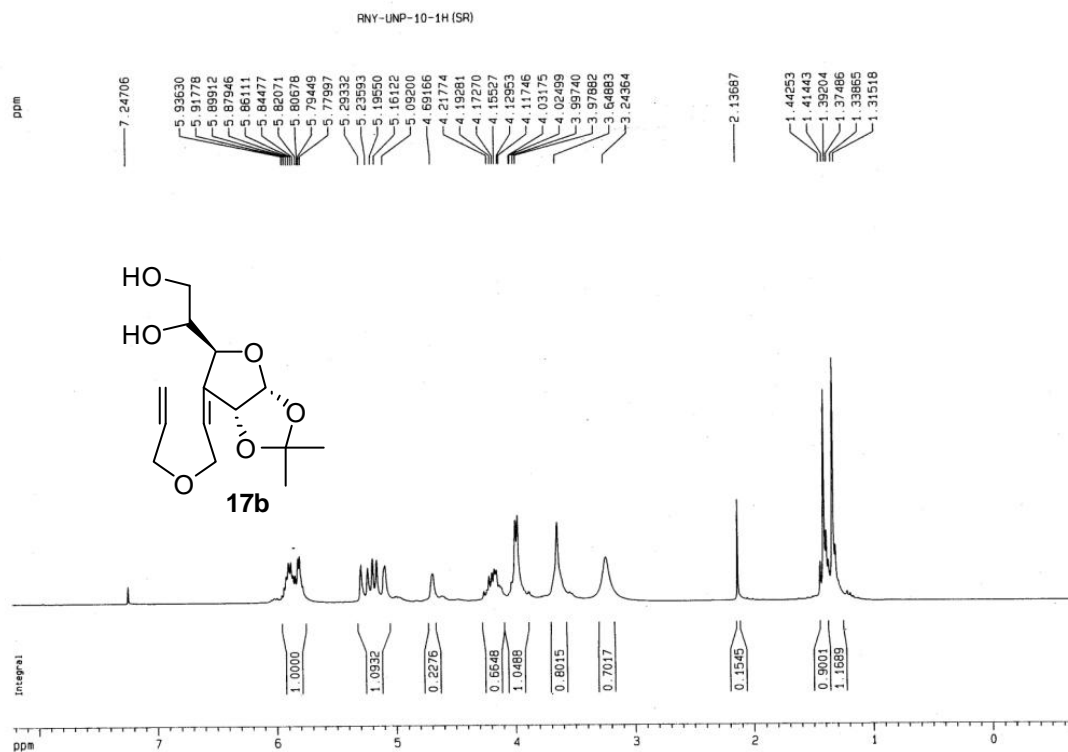
¹H NMR of **17a** in CDCl₃ (300 MHz)



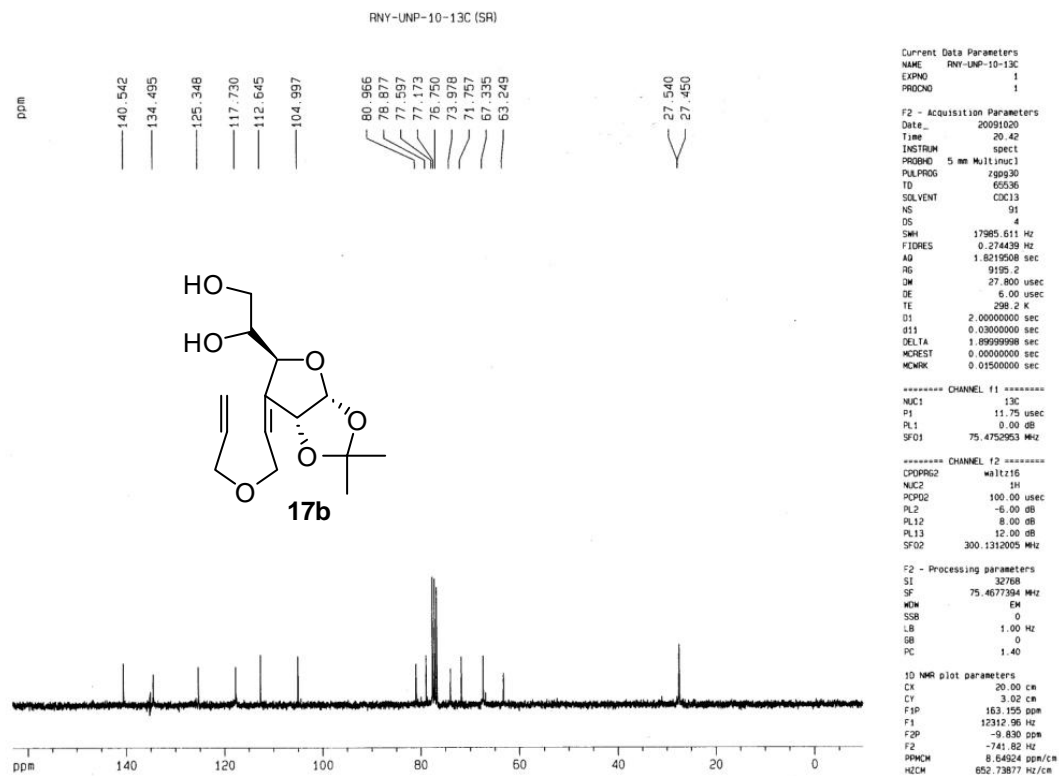
¹³C NMR of **17a** in CDCl₃ (75 MHz)



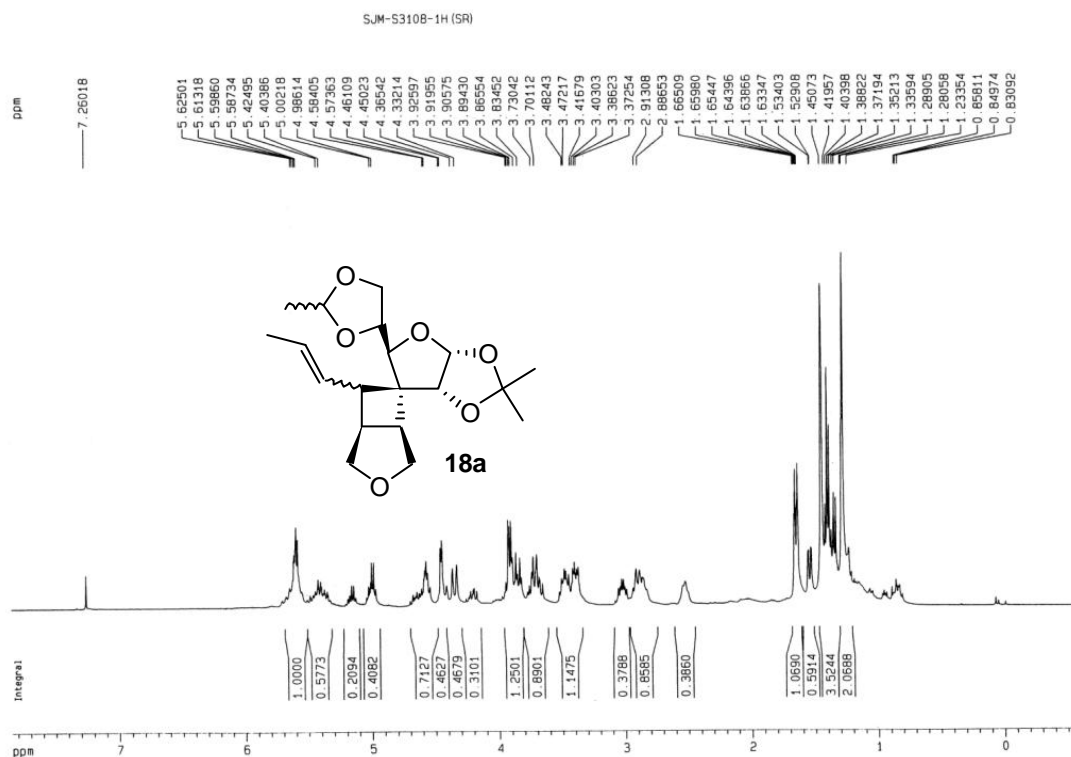
^1H NMR of **17b** in CDCl_3 (300 MHz)



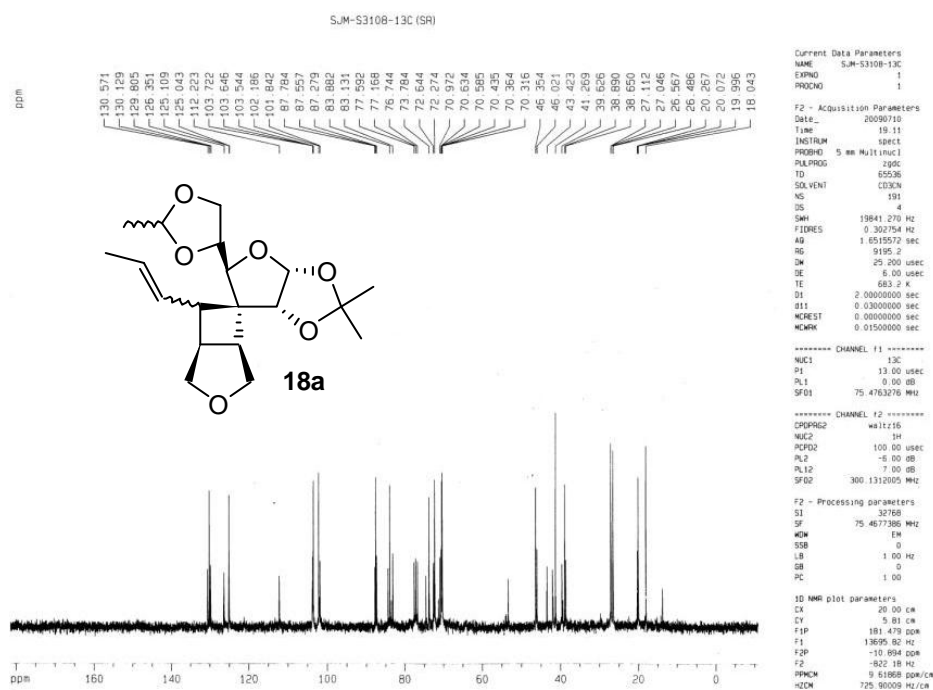
^{13}C NMR of **17b** in CDCl_3 (75 MHz)



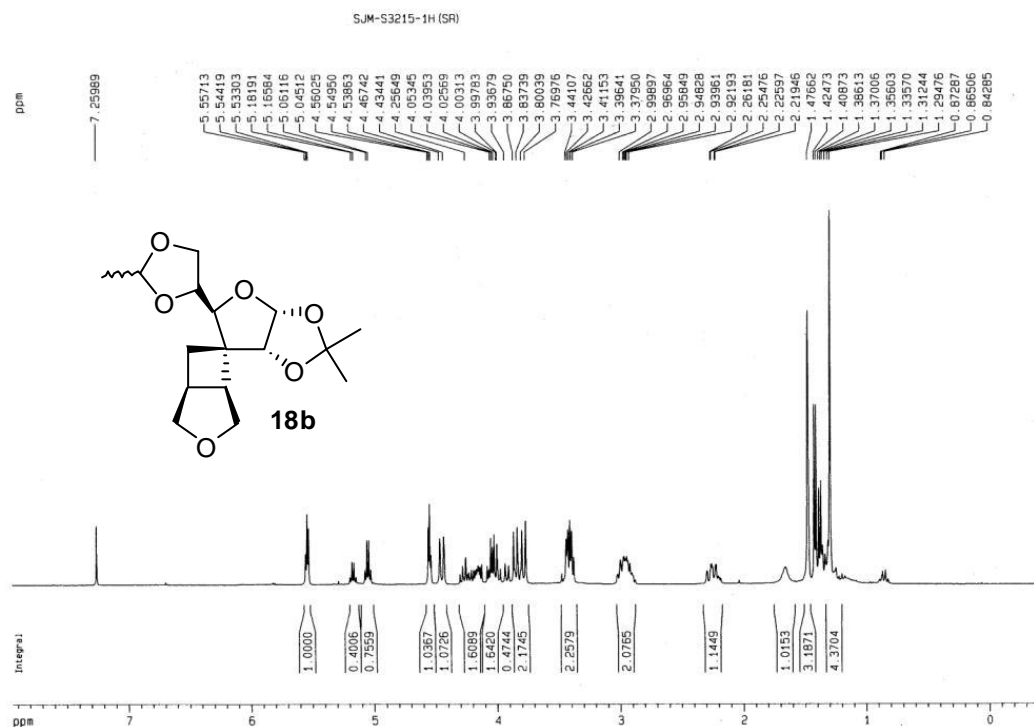
¹H NMR of **18a** in CDCl₃ (500 MHz)



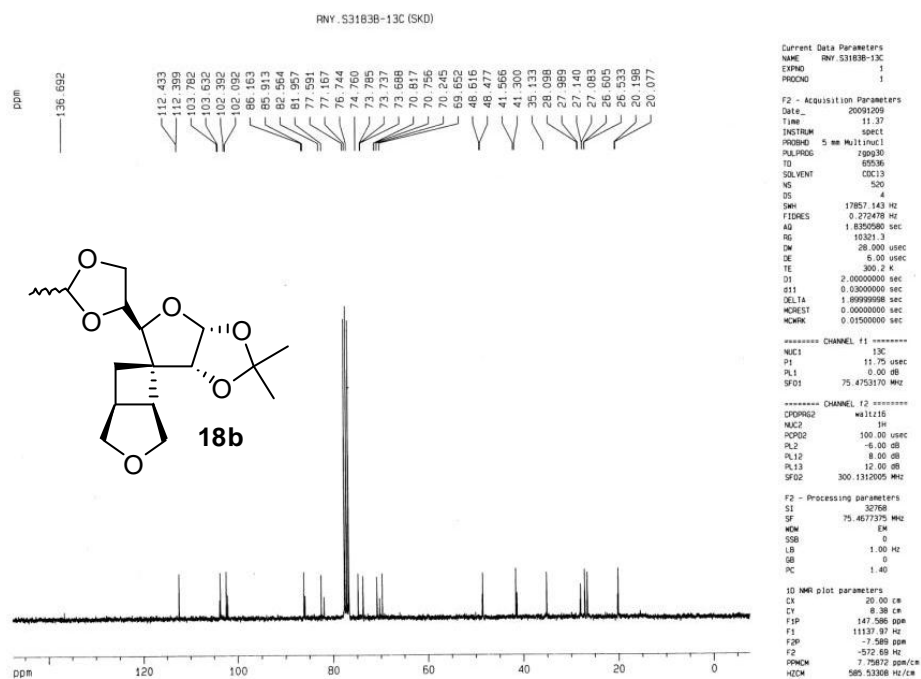
¹³C NMR of **18a** in CDCl₃ (75 MHz)



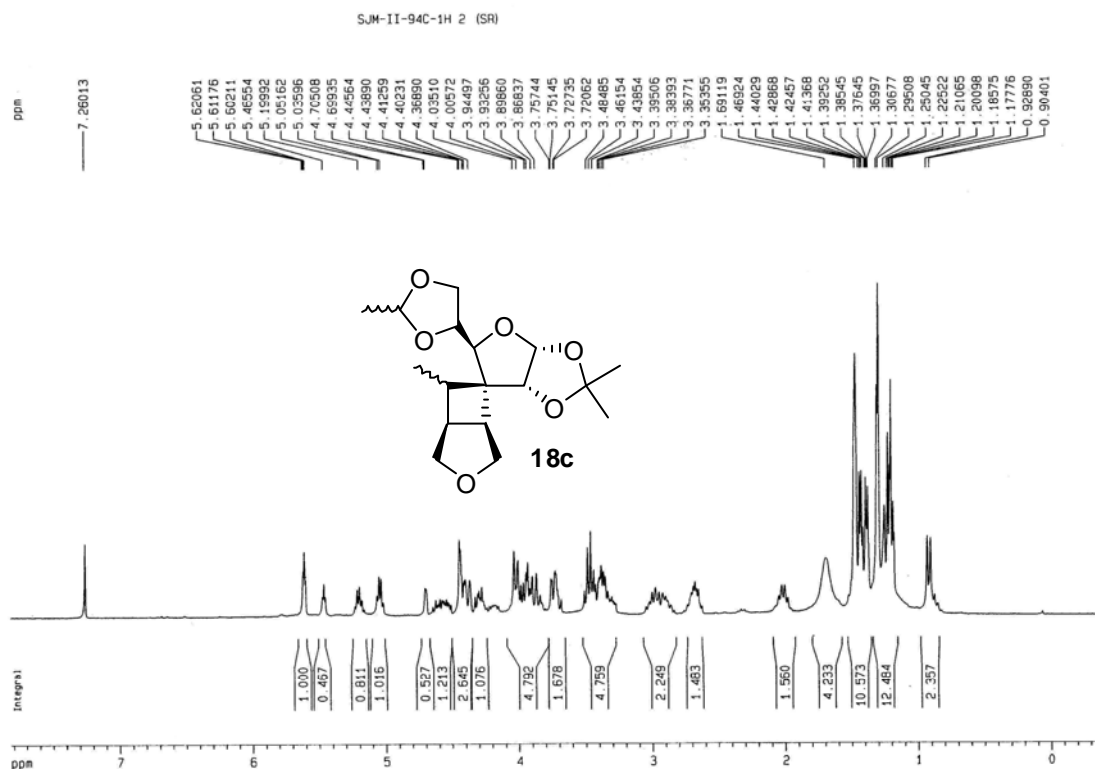
¹H NMR of **18b** in CDCl₃ (300 MHz)



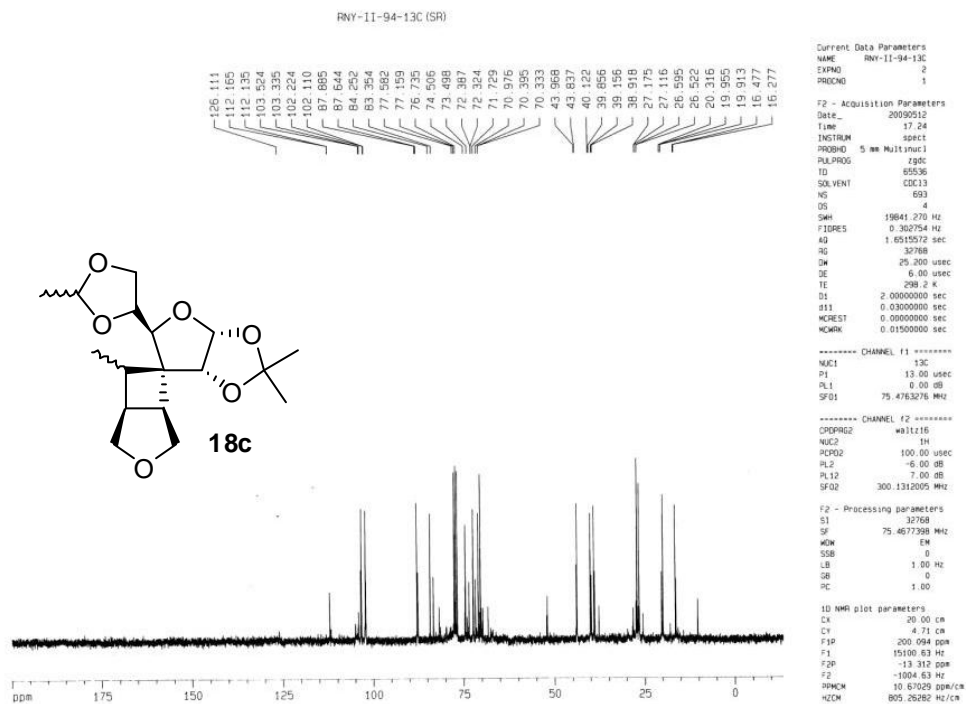
¹³C NMR of **18b** in CDCl₃ (75 MHz)



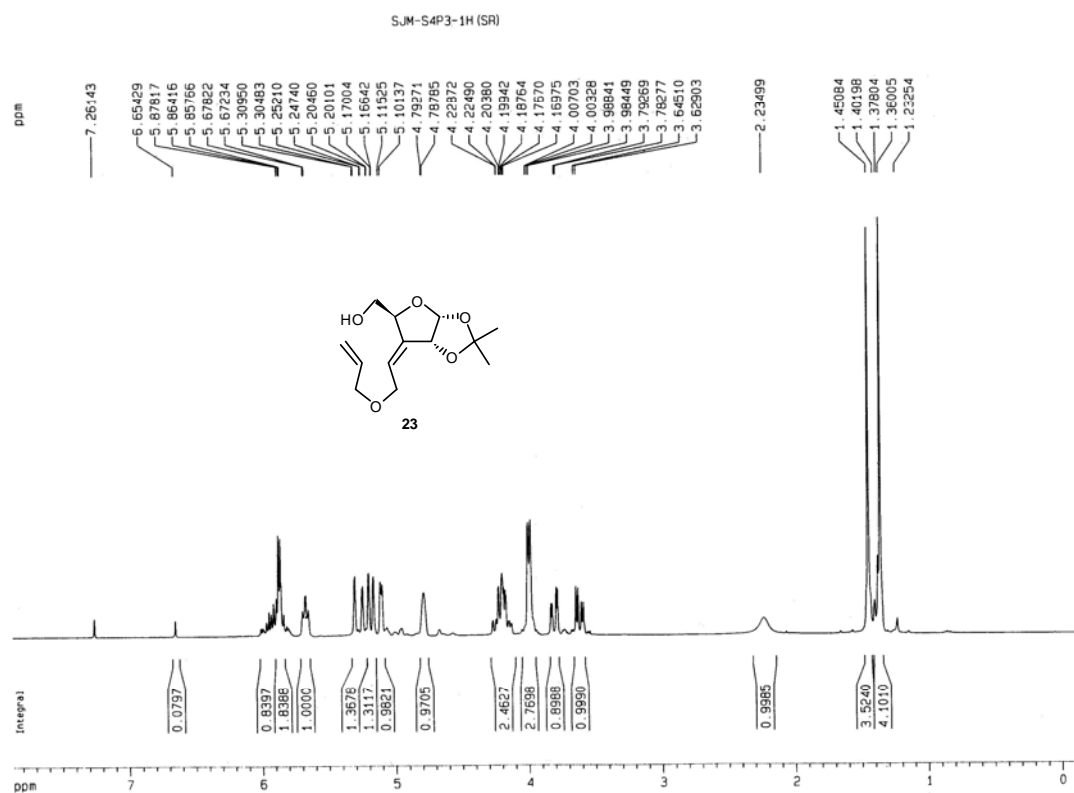
^1H NMR of **18c** in CDCl_3 (300 MHz)



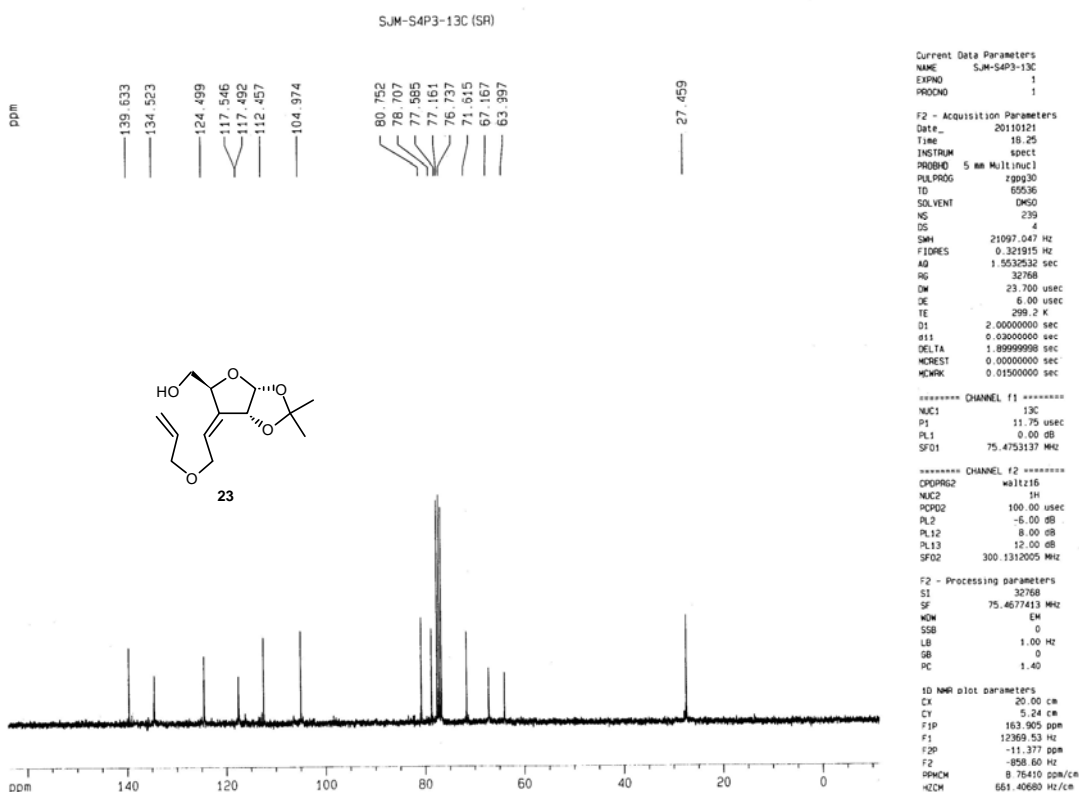
^{13}C NMR of **18c** in CDCl_3 (75 MHz)



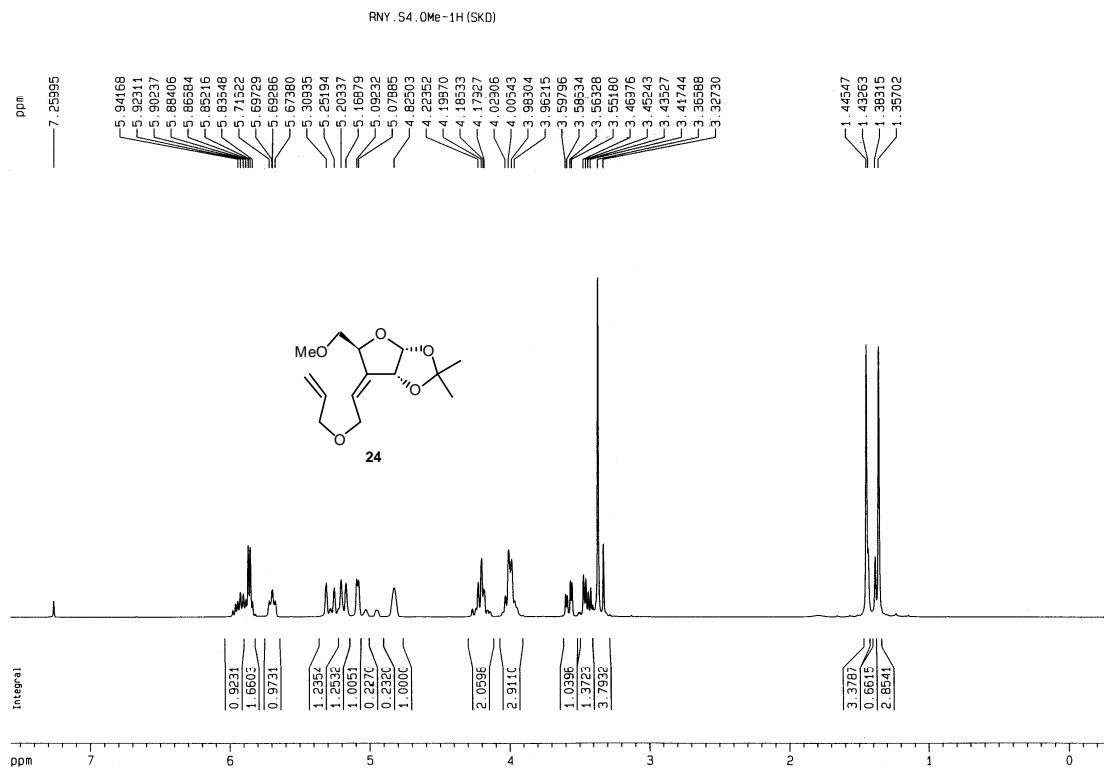
¹H NMR of **23** in CDCl₃ (300 MHz)



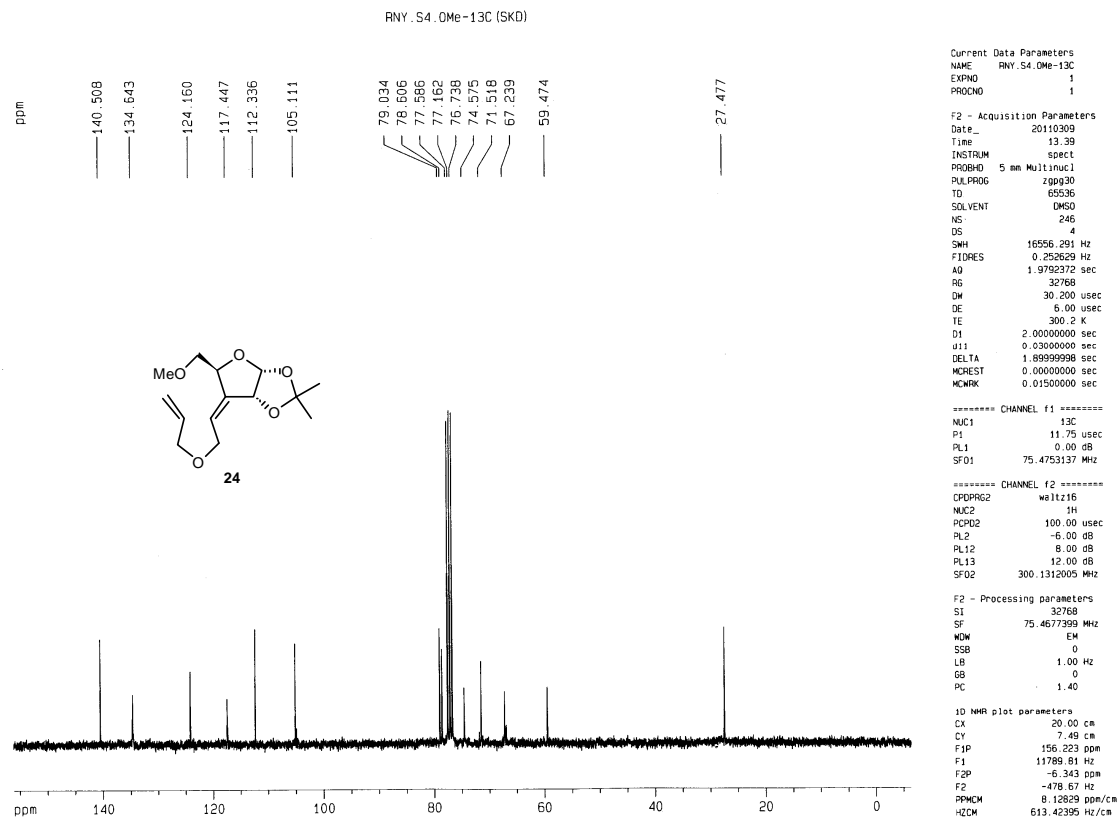
¹³C NMR of **23** in CDCl₃ (75 MHz)



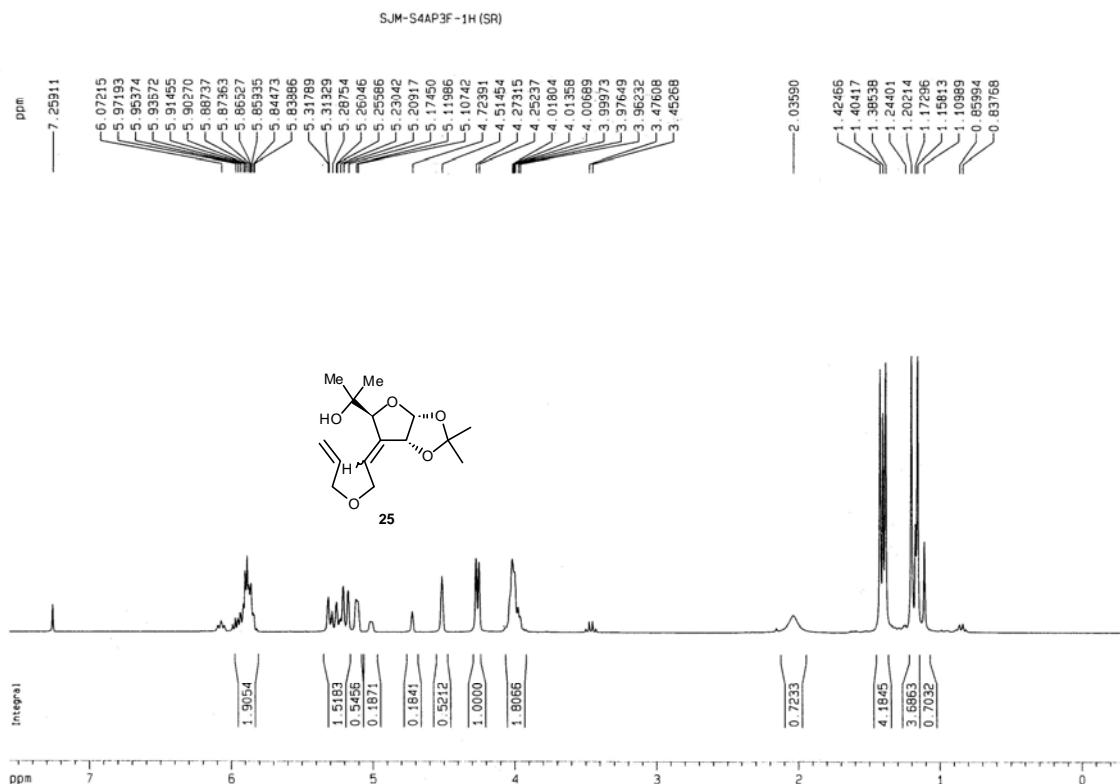
¹H NMR of **24** in CDCl₃ (300 MHz)



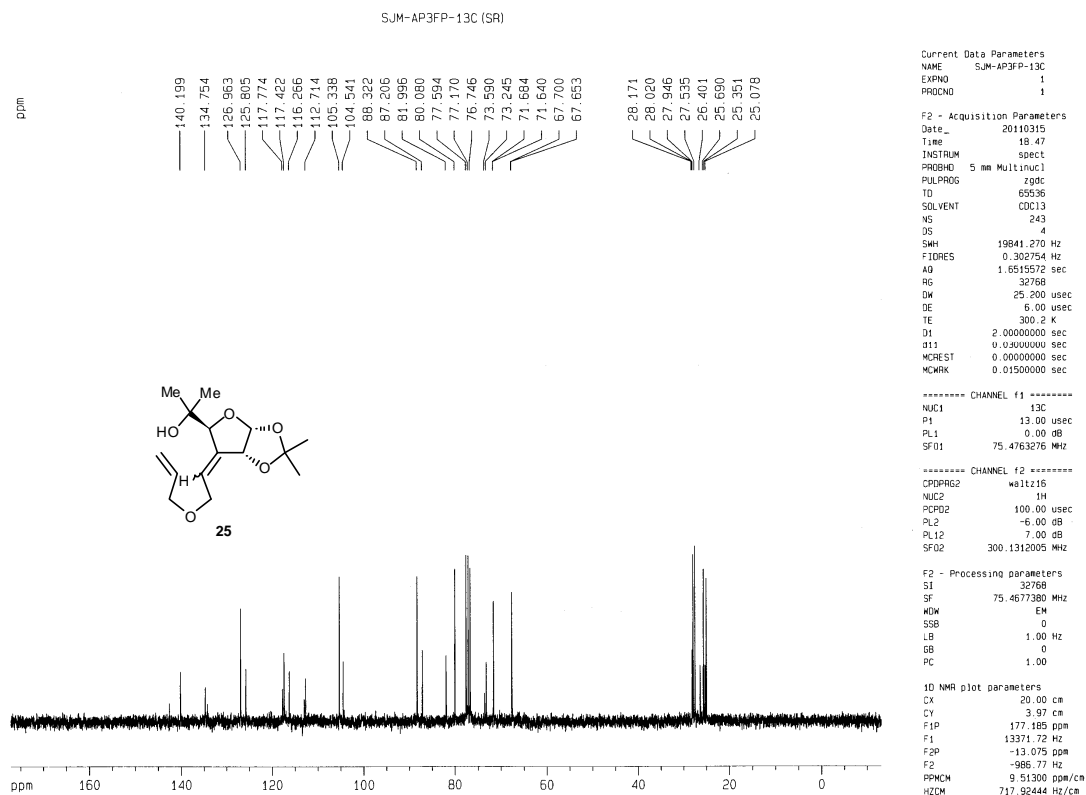
¹³C NMR of **24** in CDCl₃ (75 MHz)



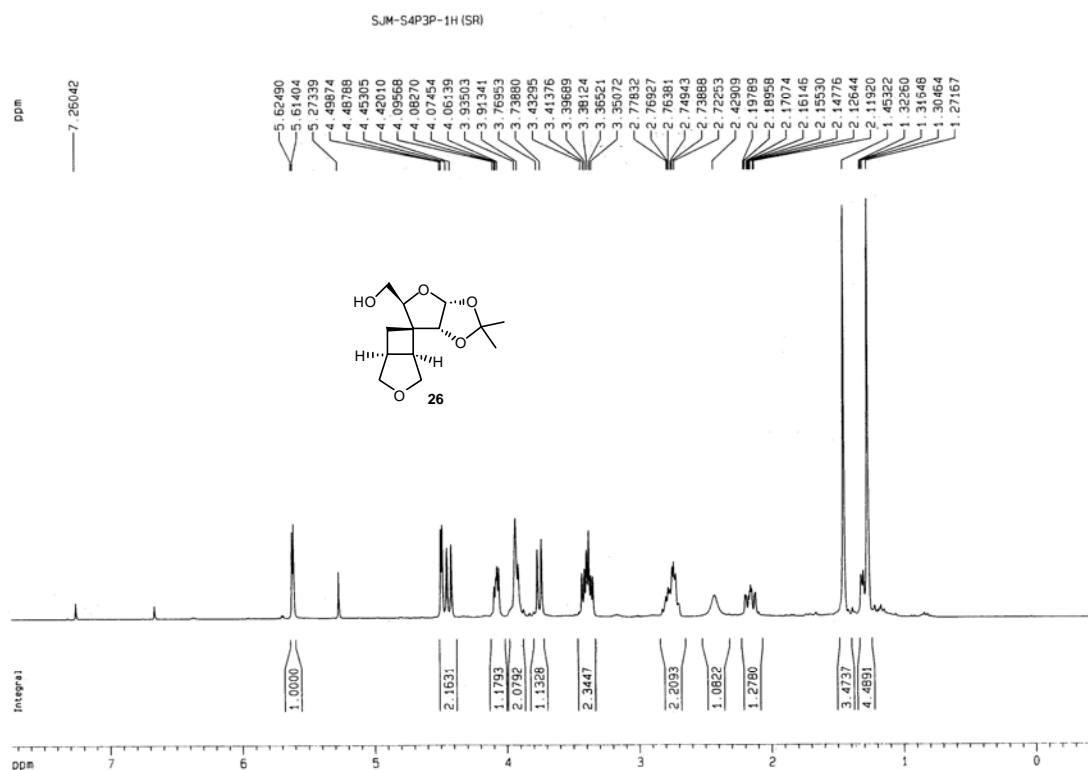
¹H NMR of **25** in CDCl₃ (300 MHz)



¹³C NMR of **25** in CDCl₃ (75 MHz)



¹H NMR of **26** in CDCl₃ (300 MHz)



¹³C NMR of **26** in CDCl₃ (75 MHz)

