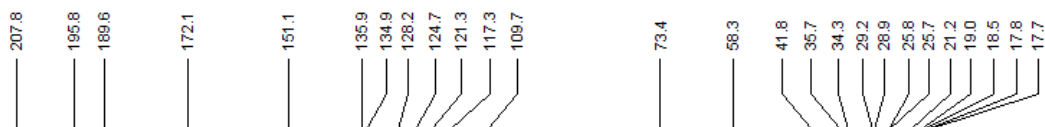
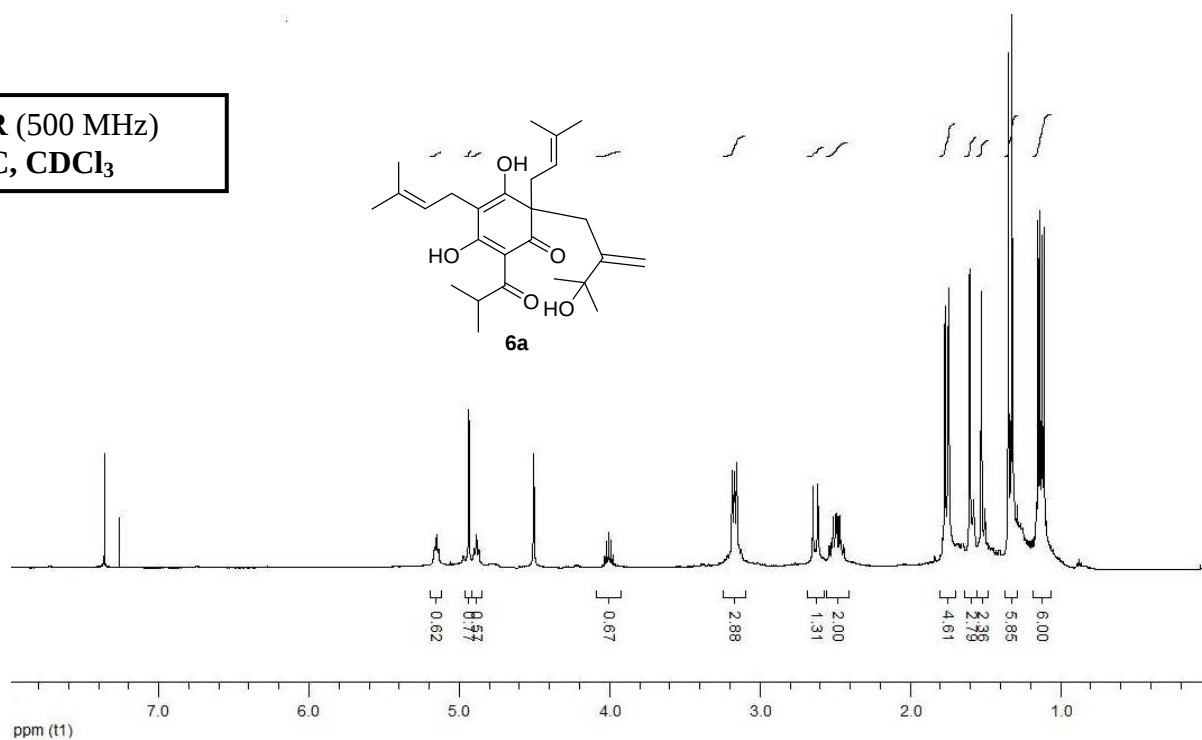
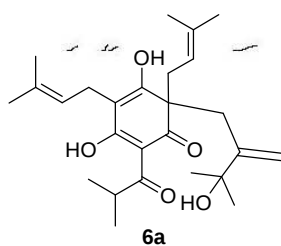
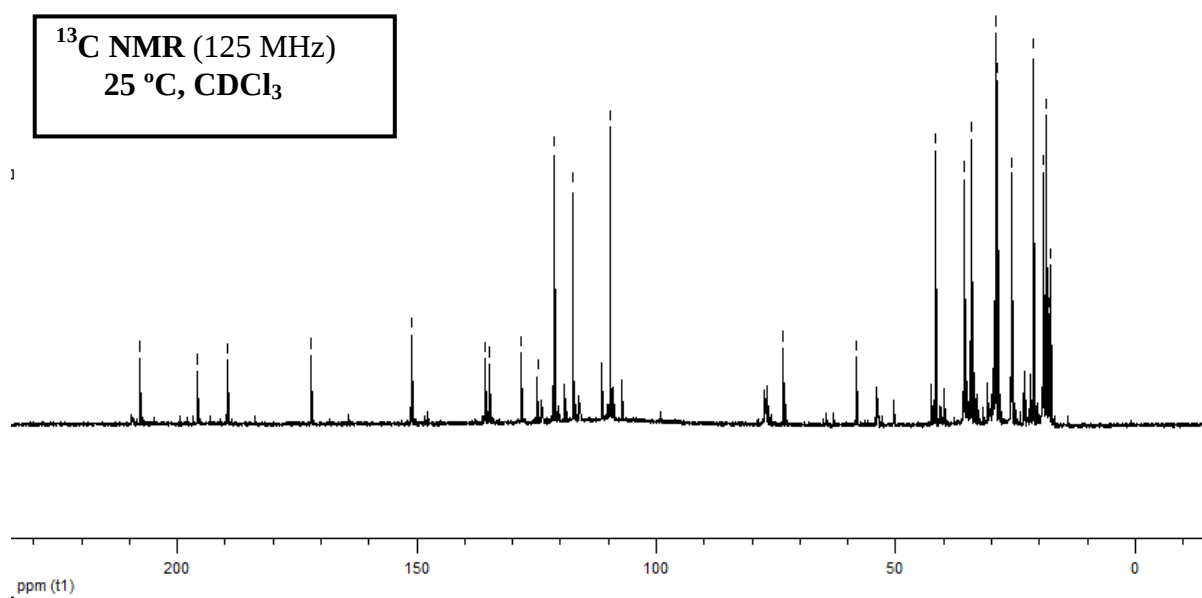


IV. Select NMR Spectra

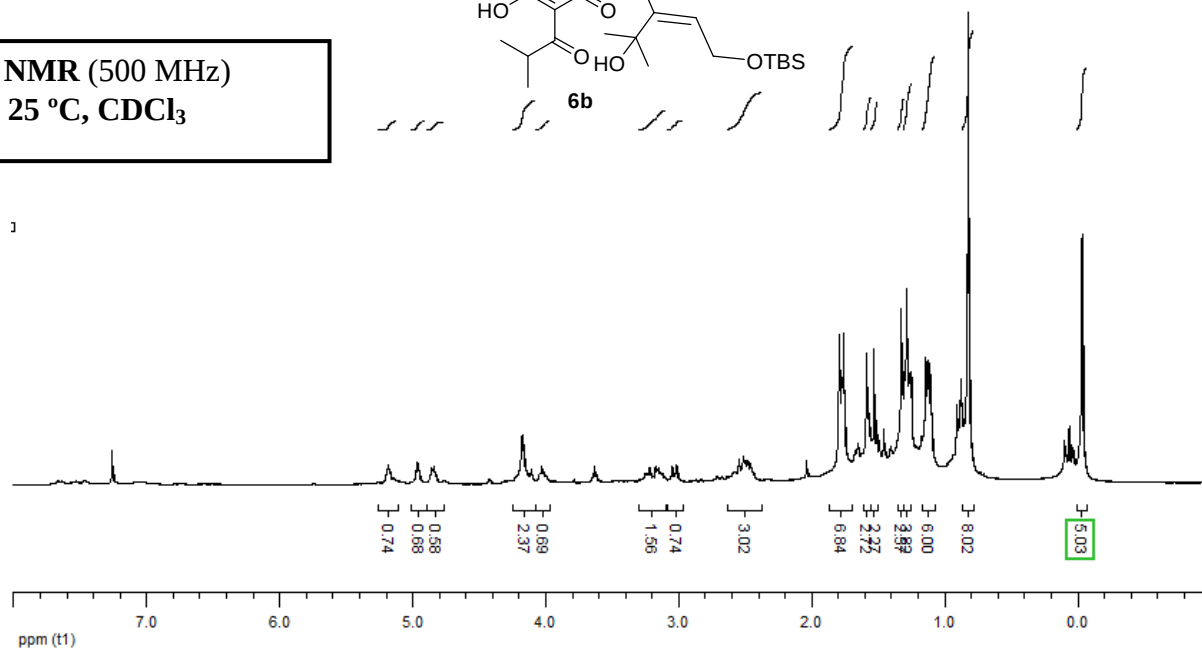
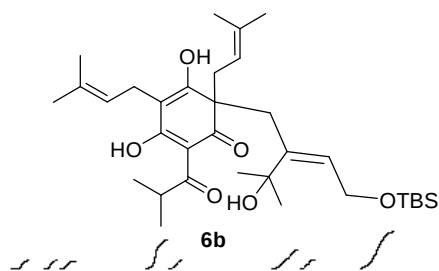
^1H NMR (500 MHz)
25 °C, CDCl_3



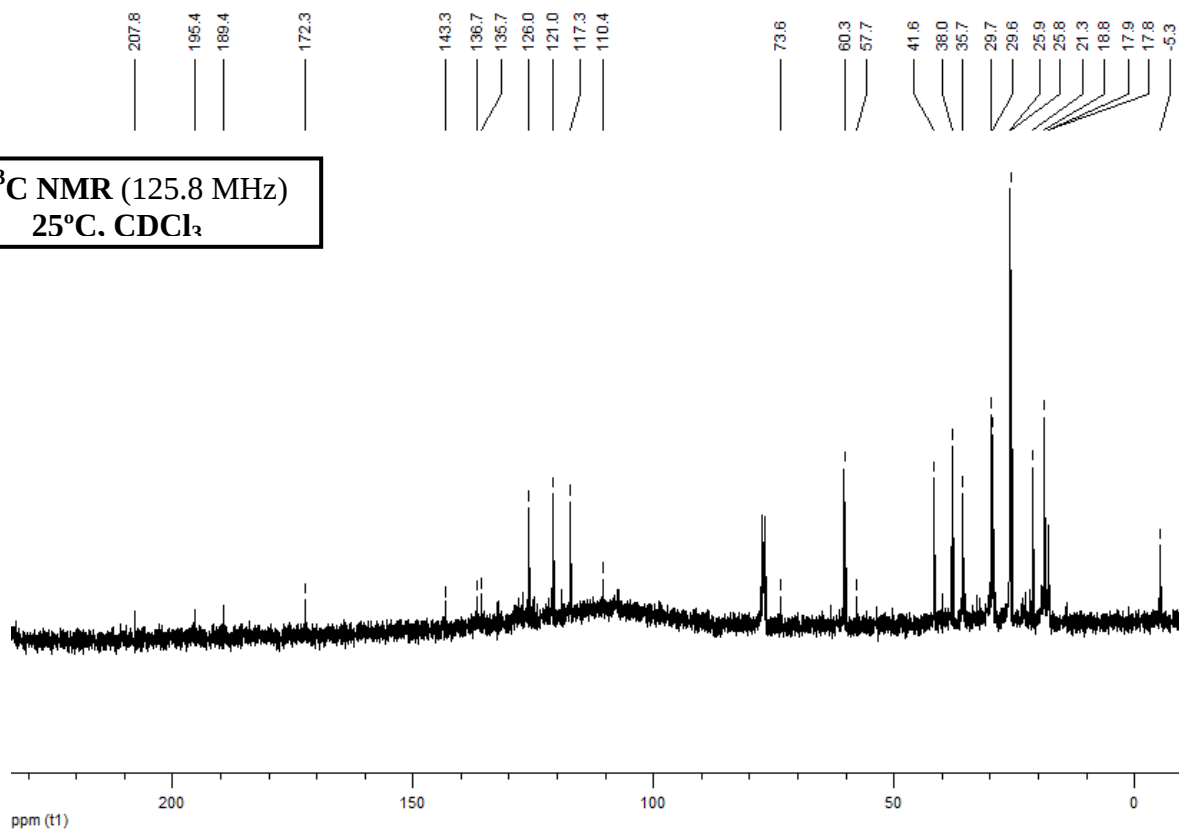
^{13}C NMR (125 MHz)
25 °C, CDCl_3



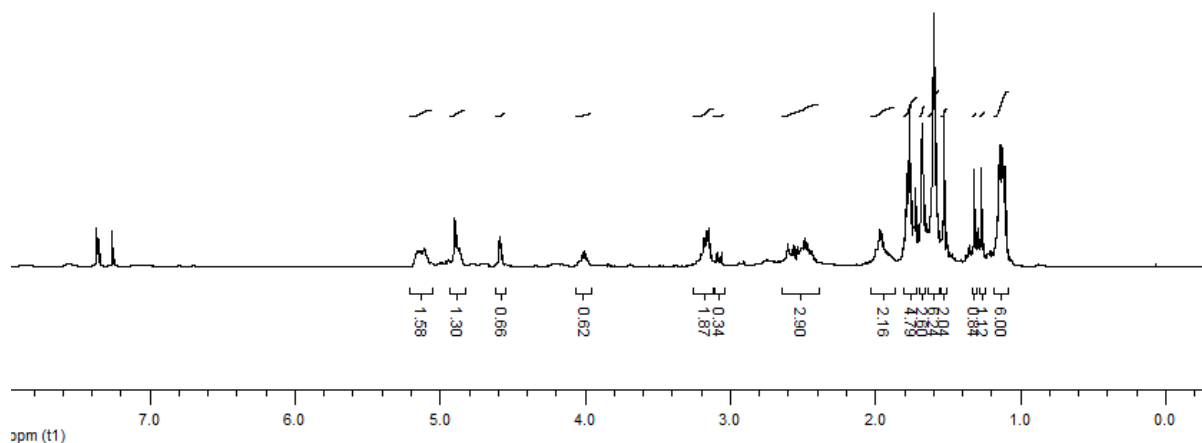
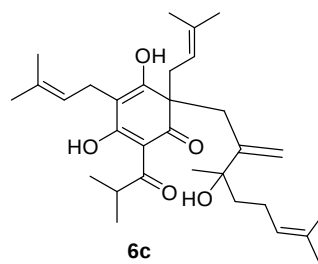
**¹H NMR (500 MHz)
25 °C, CDCl₃**



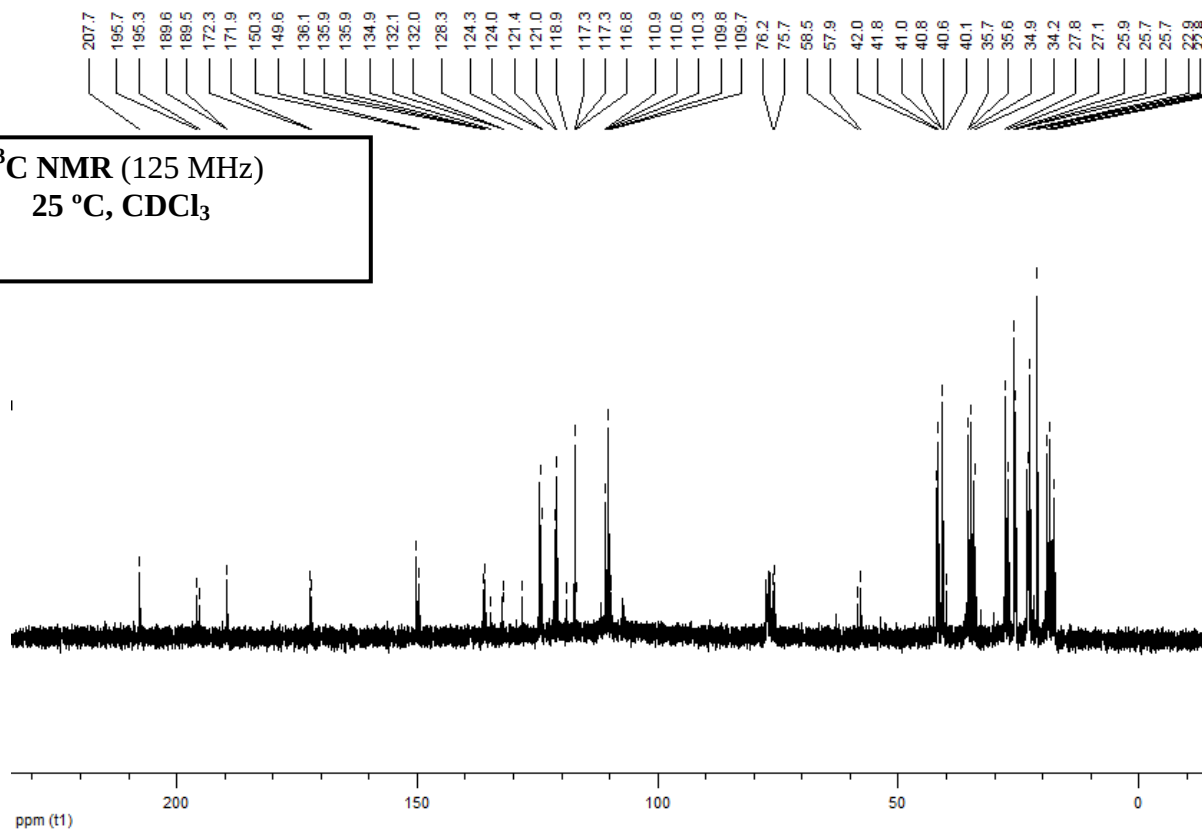
**¹³C NMR (125.8 MHz)
25°C. CDCl₃**

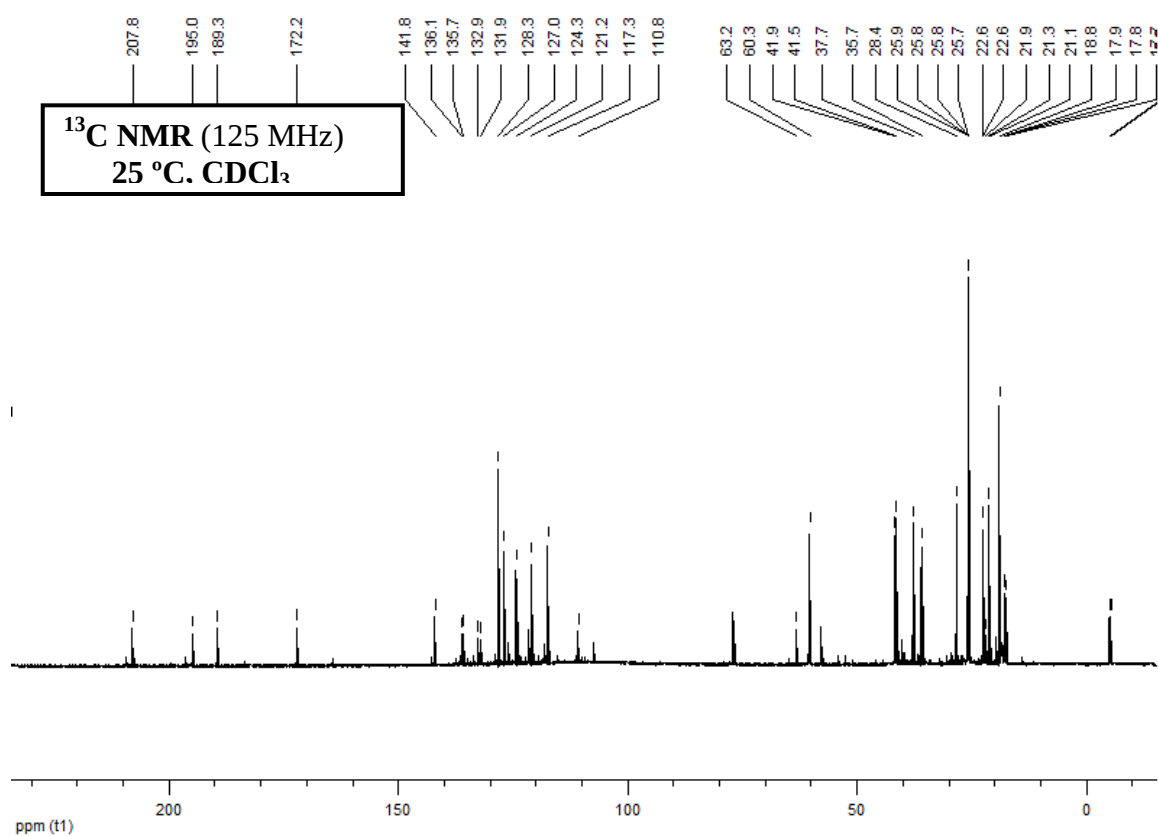
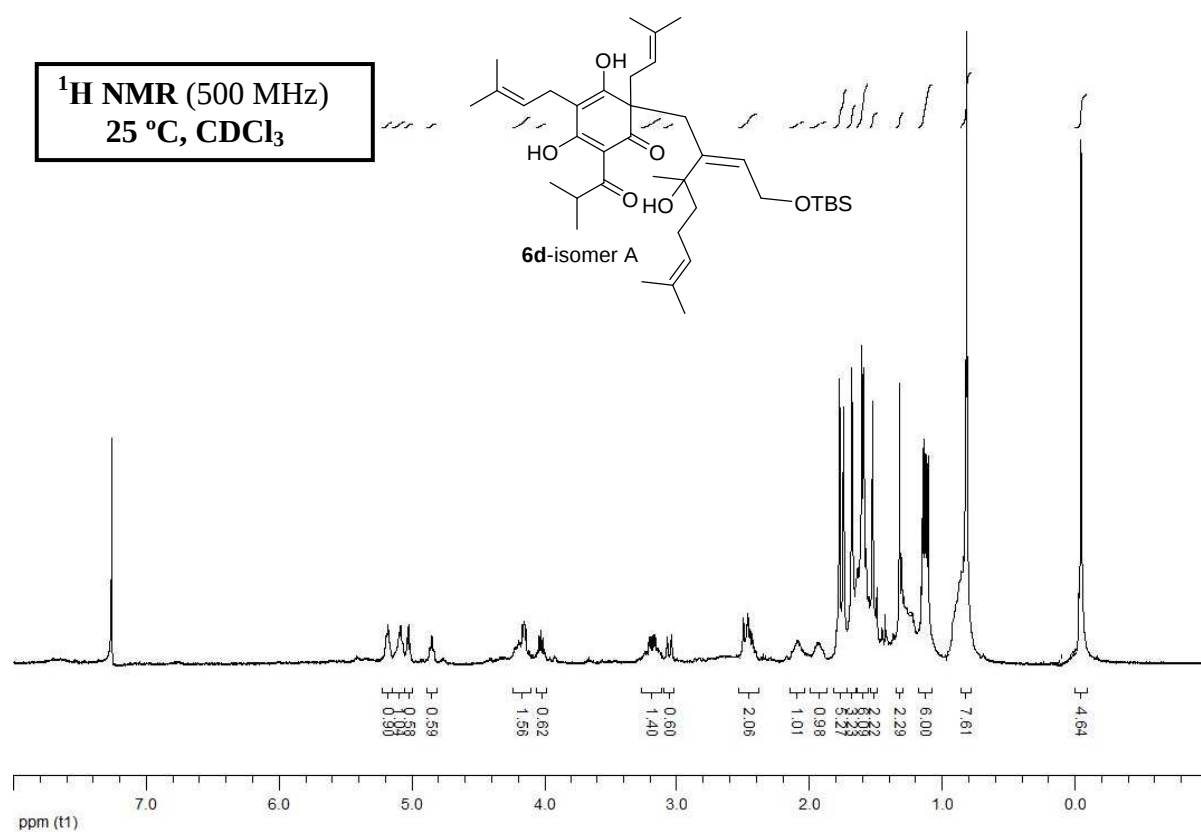


^1H NMR (500 MHz)
25 °C, CDCl_3

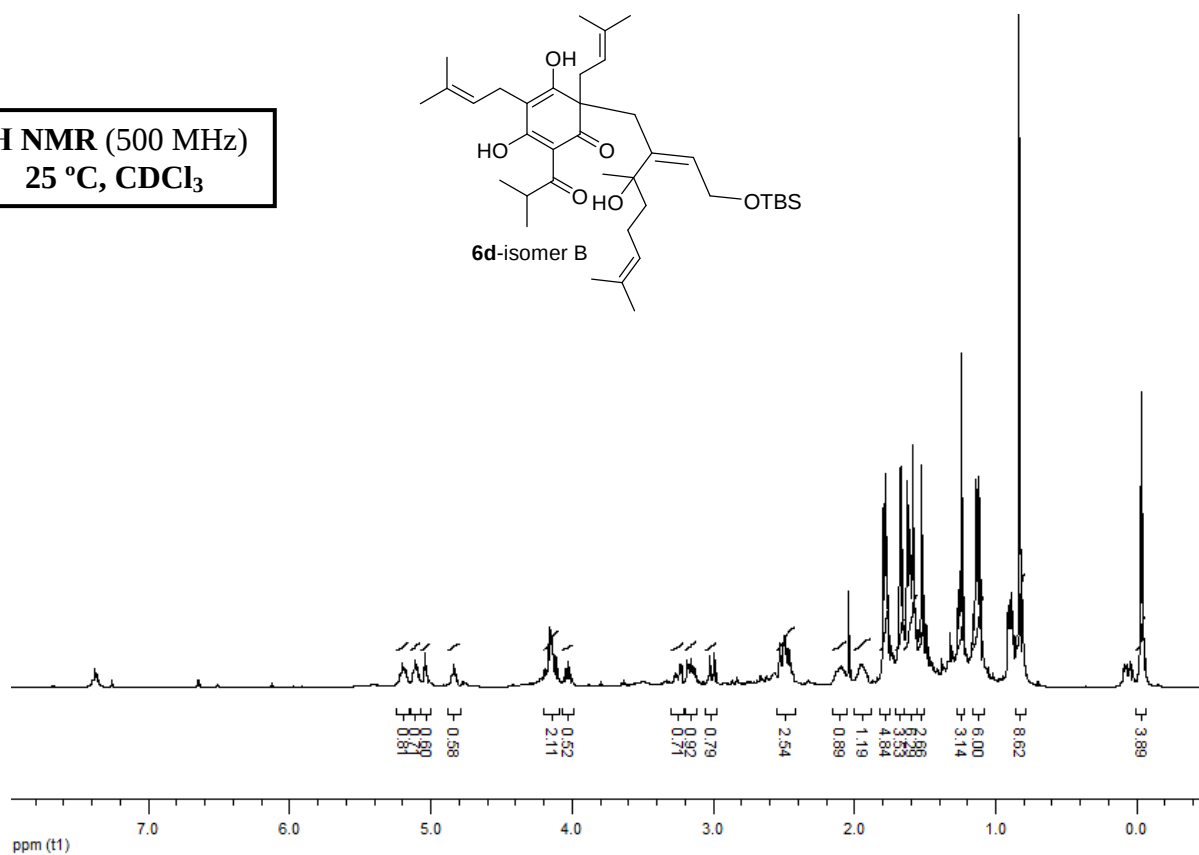
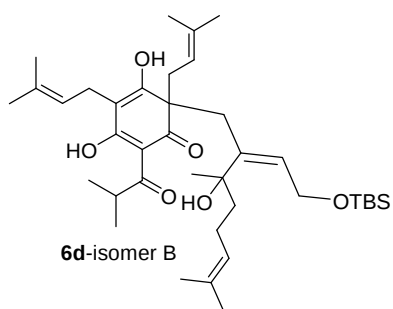


^{13}C NMR (125 MHz)
25 °C, CDCl_3

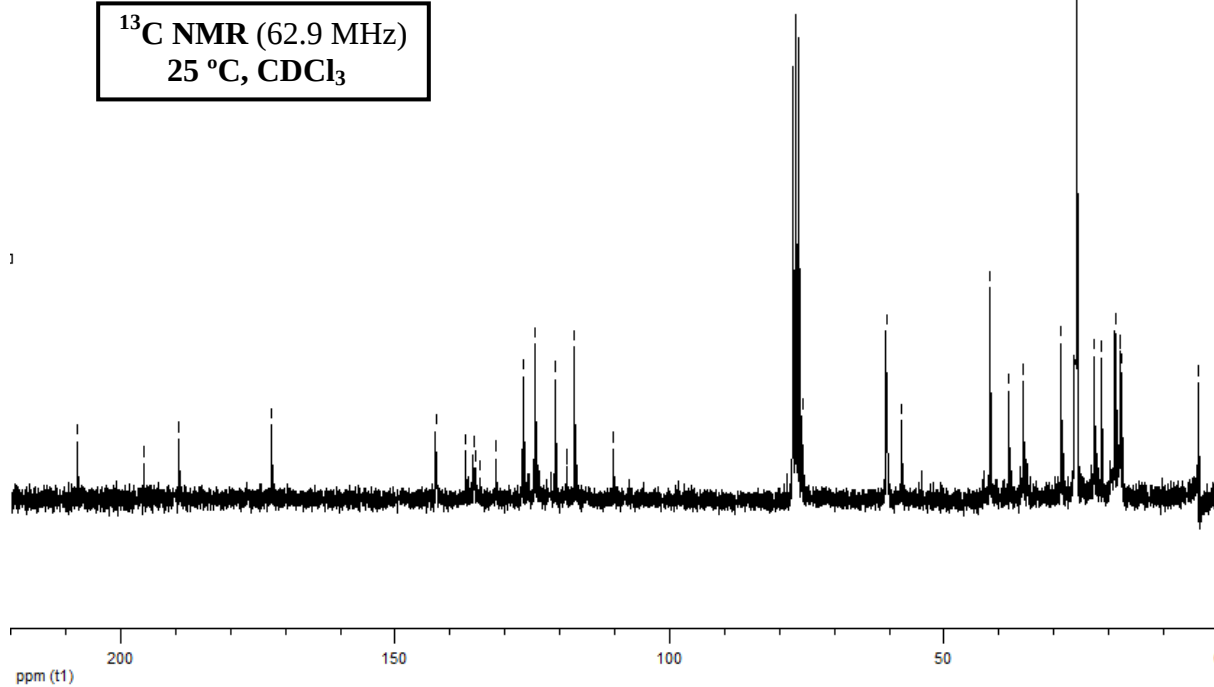




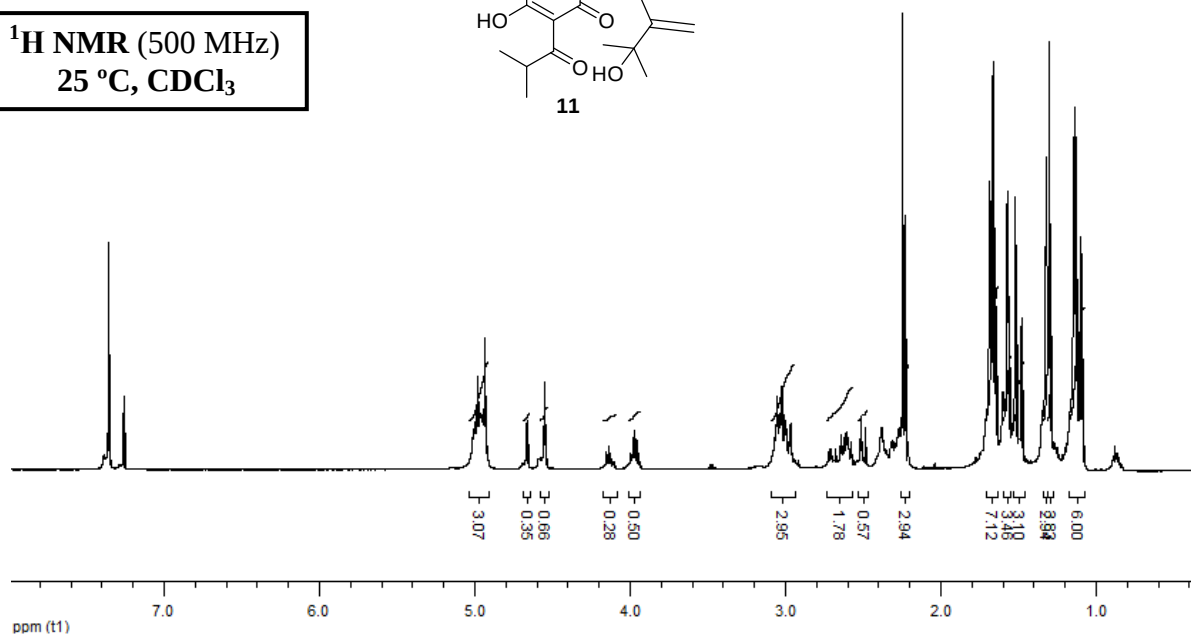
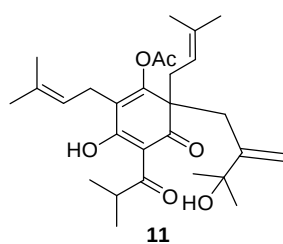
^1H NMR (500 MHz)
25 °C, CDCl_3



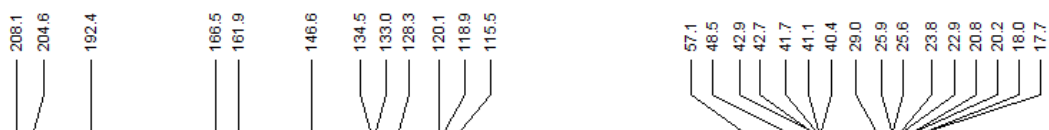
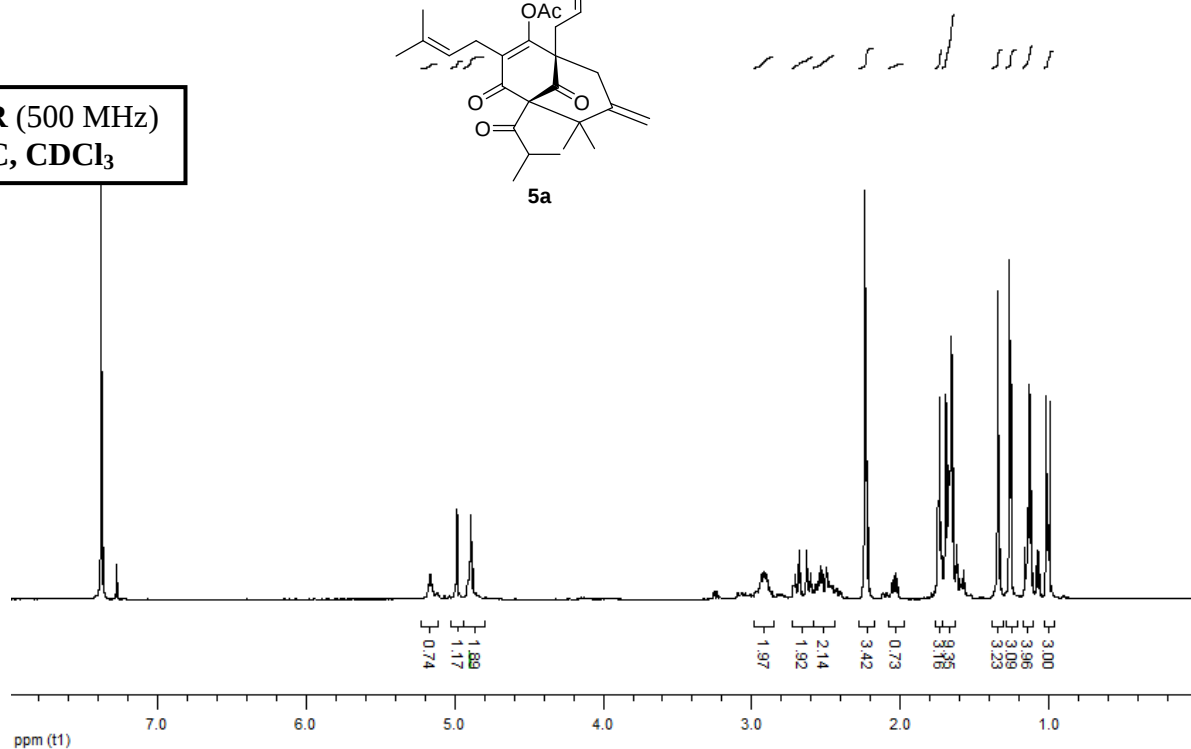
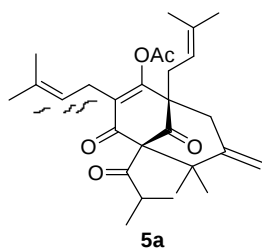
^{13}C NMR (62.9 MHz)
25 °C, CDCl_3



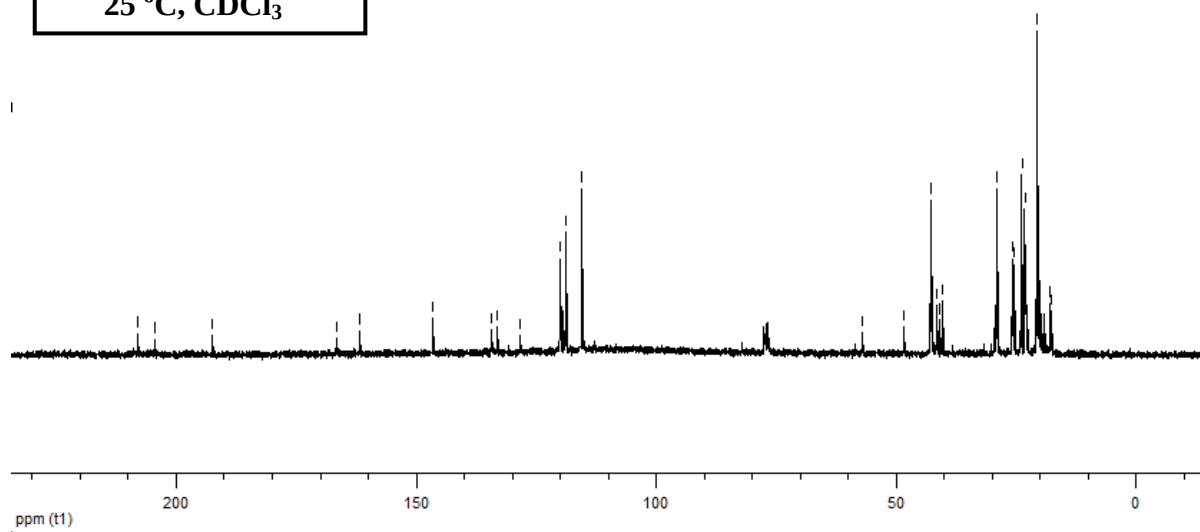
^1H NMR (500 MHz)
25 °C, CDCl_3



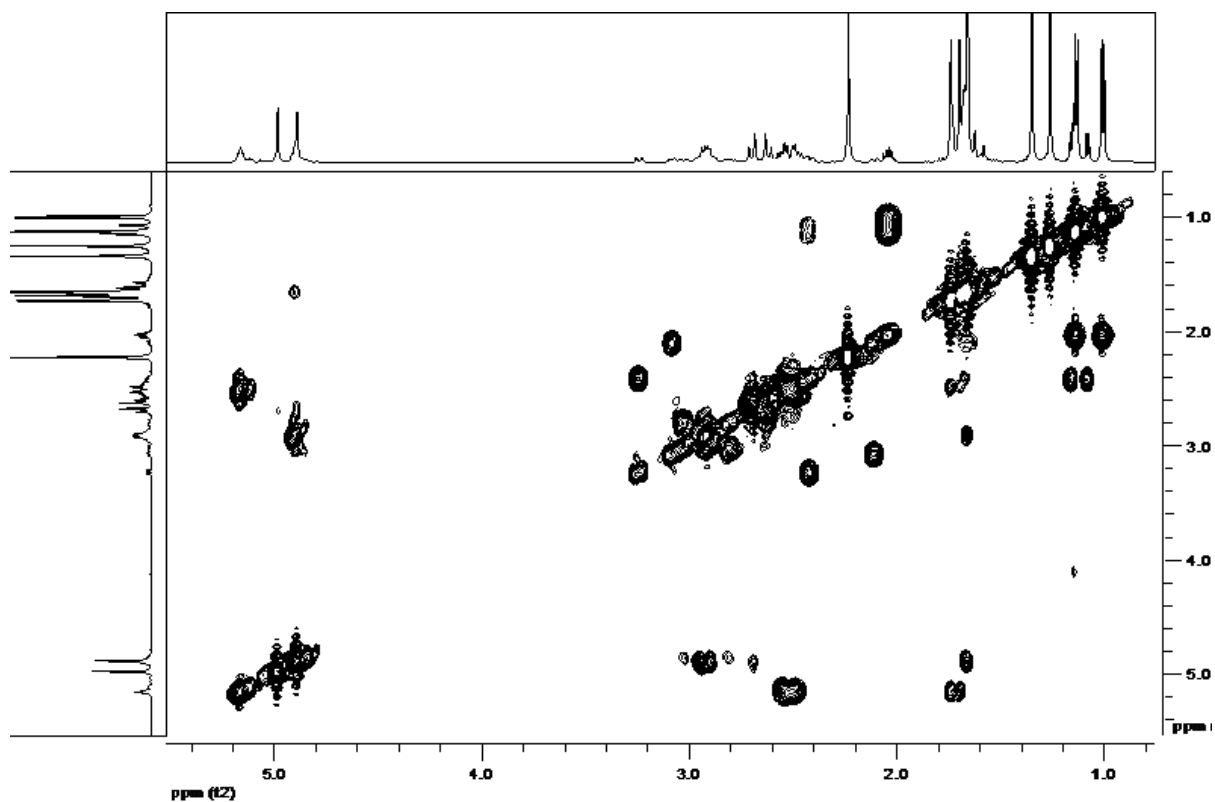
**^1H NMR (500 MHz)
25 °C, CDCl_3**



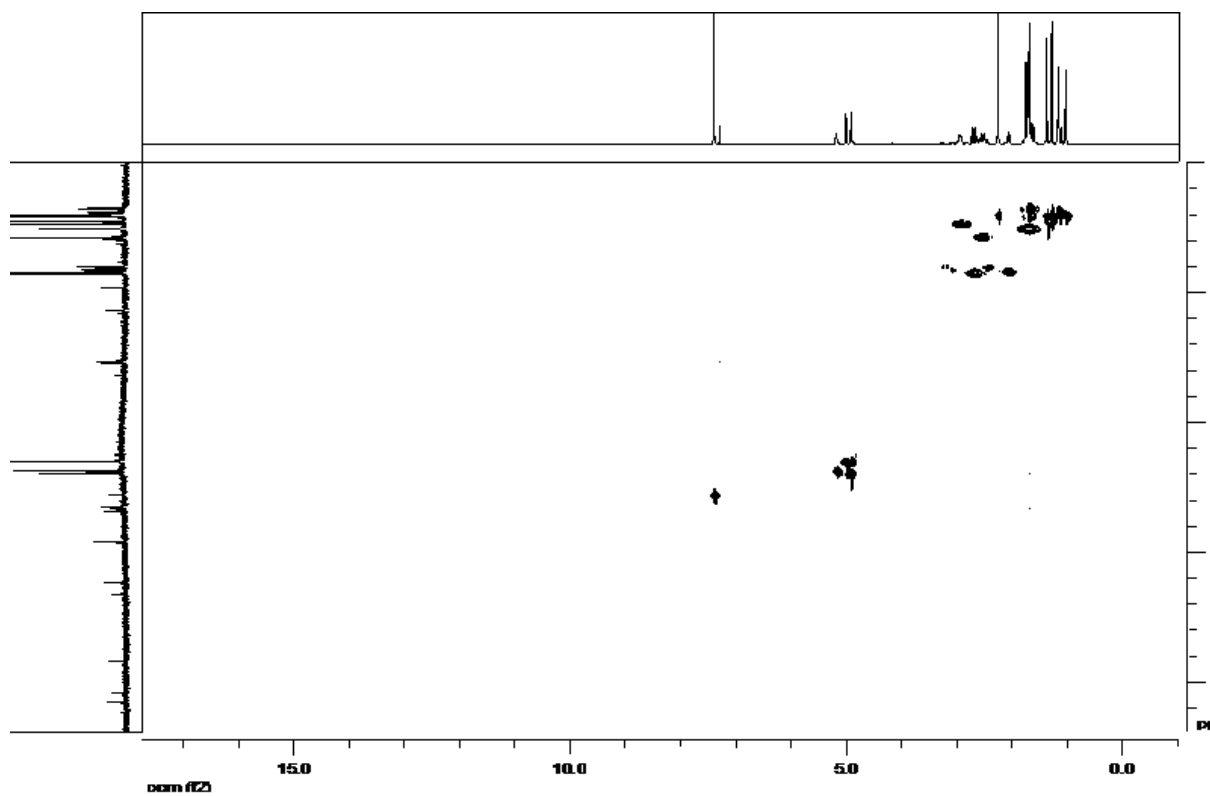
**^{13}C NMR (125 MHz)
25 °C, CDCl_3**



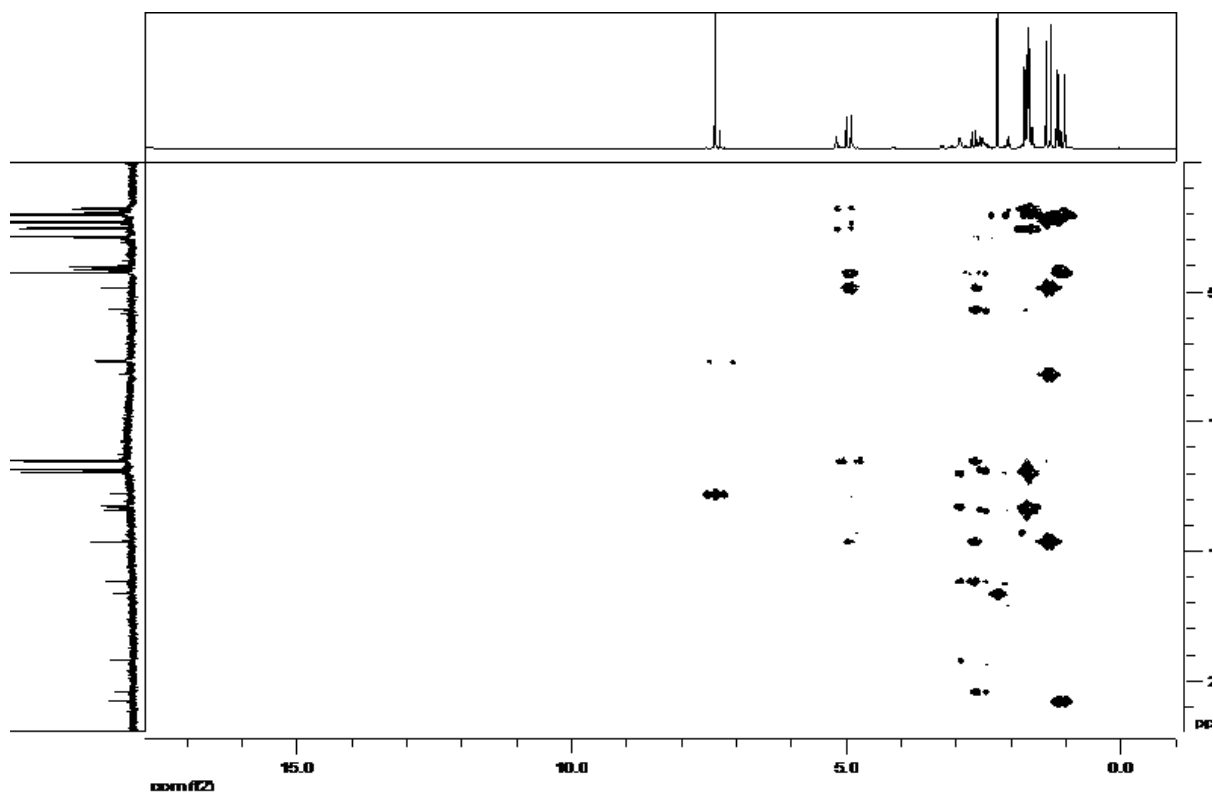
^1H - ^1H (COSY) NMR (500 MHz, CDCl_3) for compound 5a



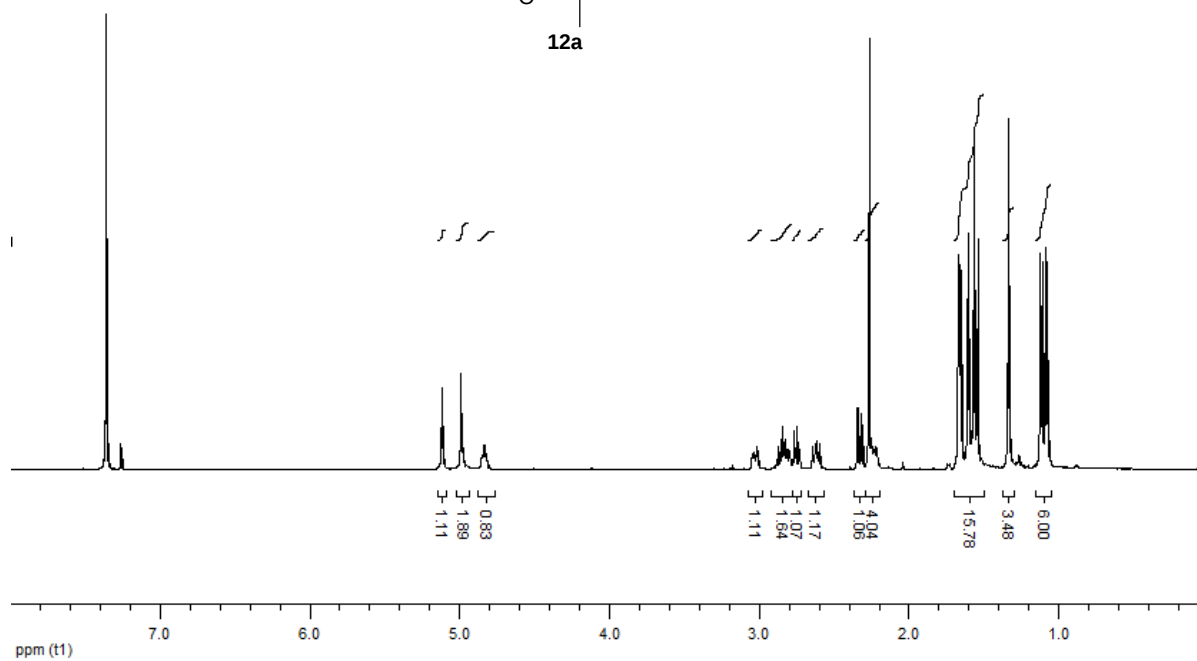
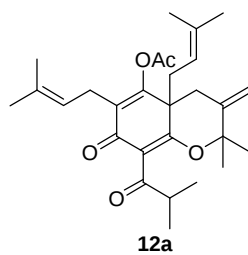
^1H - ^{13}C (HSQC) NMR (125 MHz, CDCl_3) for compound 5a



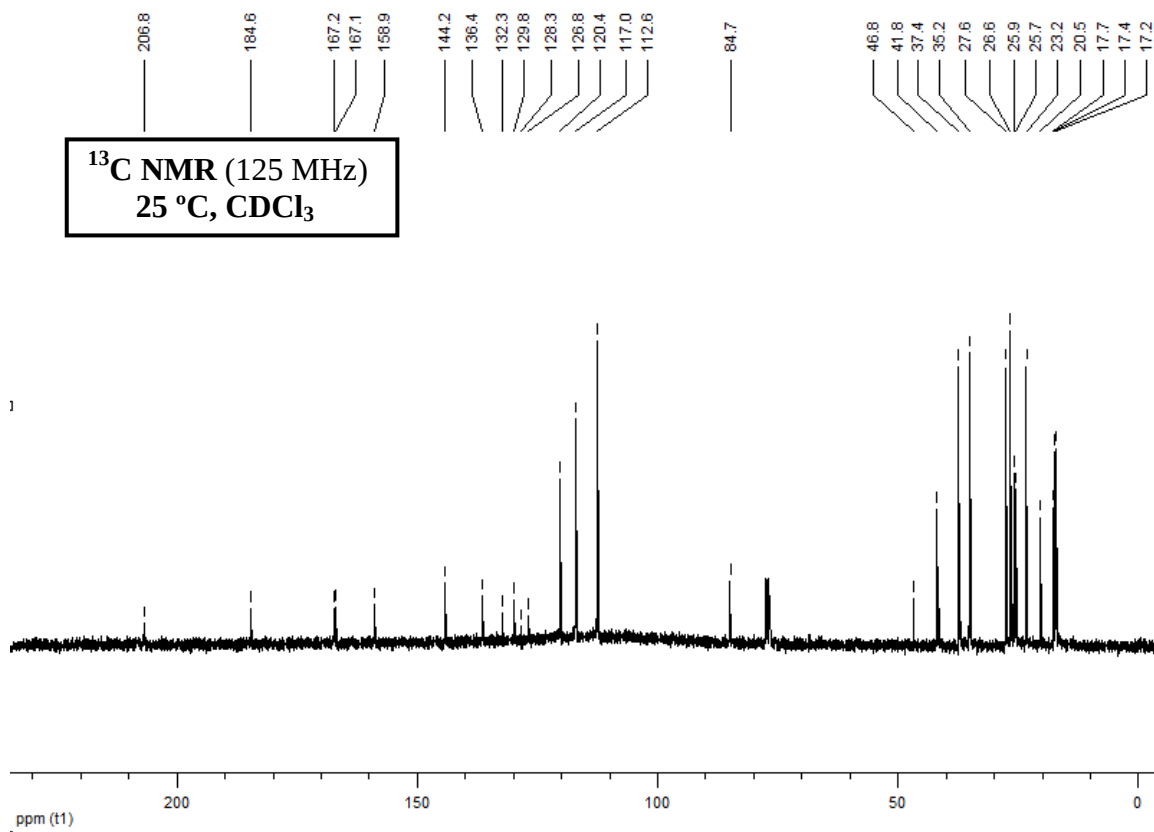
^1H - ^{13}C (HMBC) NMR (125 MHz, CDCl_3) for compound **5a**



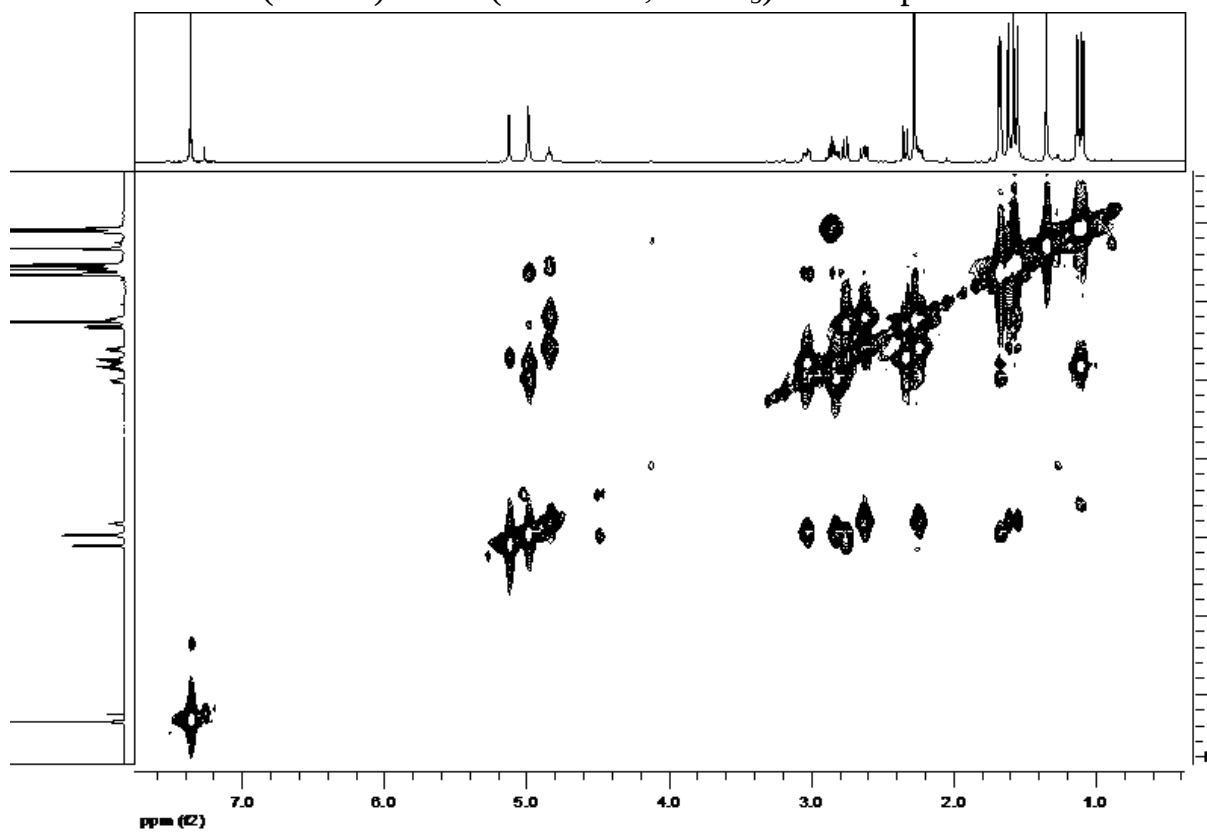
^1H NMR (500 MHz)
25 °C, CDCl_3



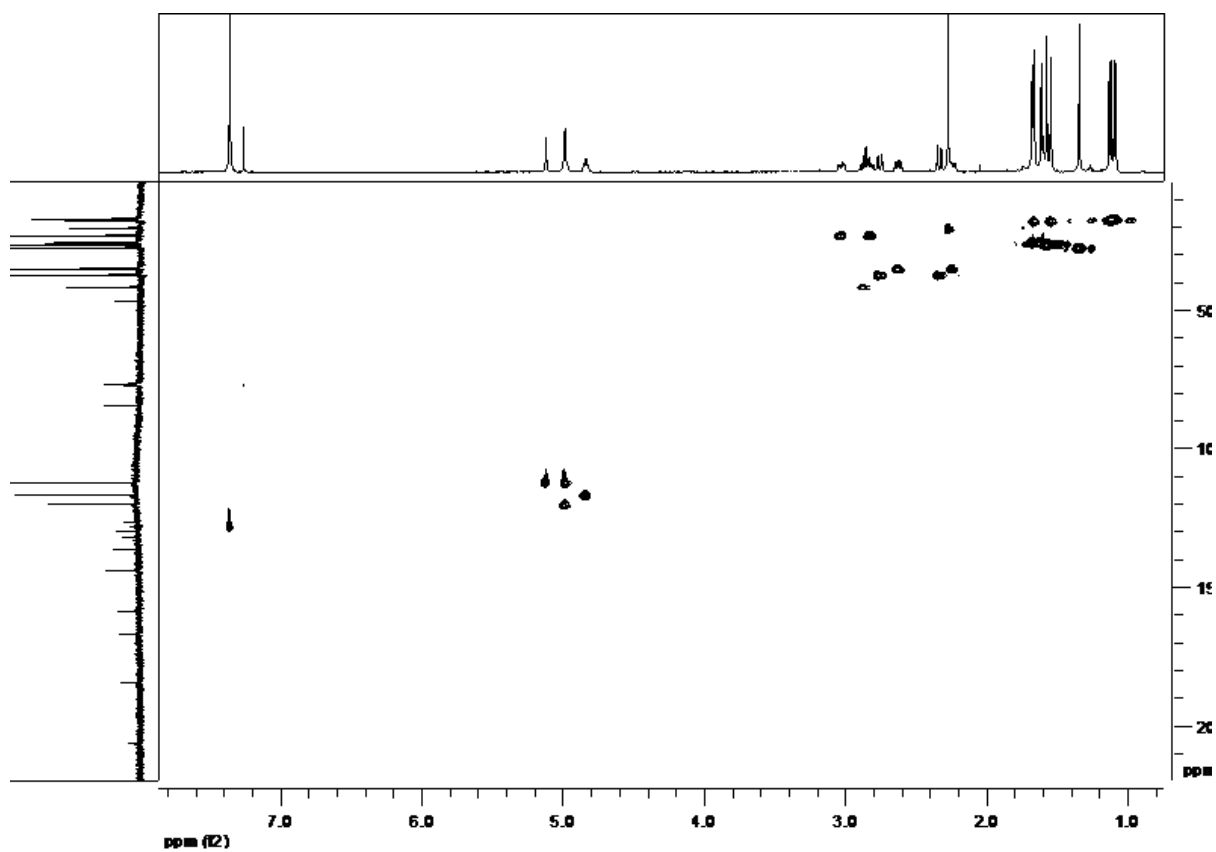
^{13}C NMR (125 MHz)
25 °C, CDCl_3



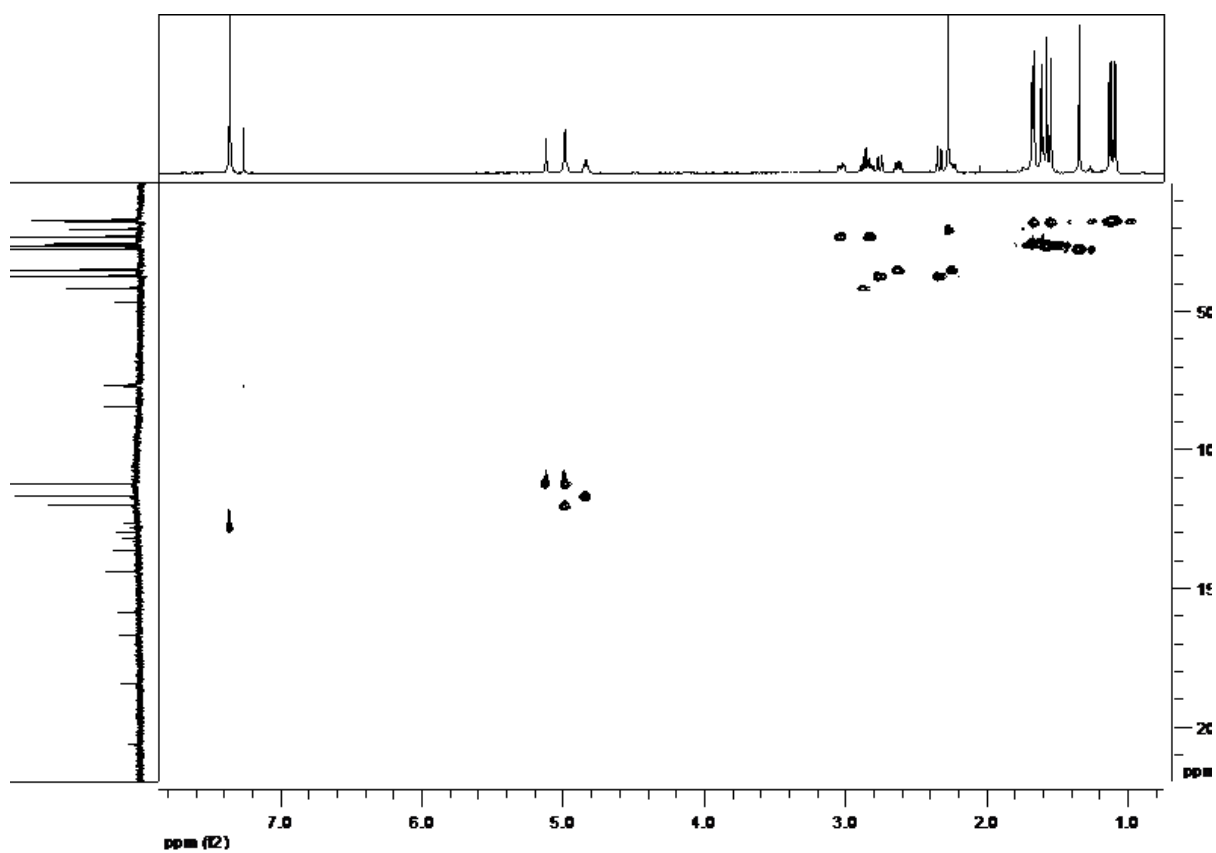
^1H - ^1H (COSY) NMR (500 MHz, CDCl_3) for compound **12a**



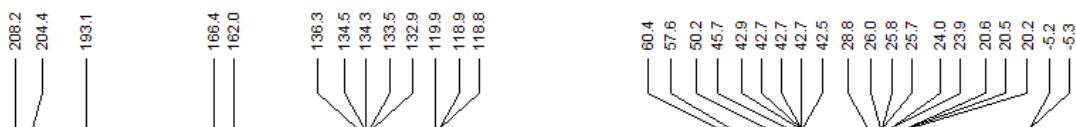
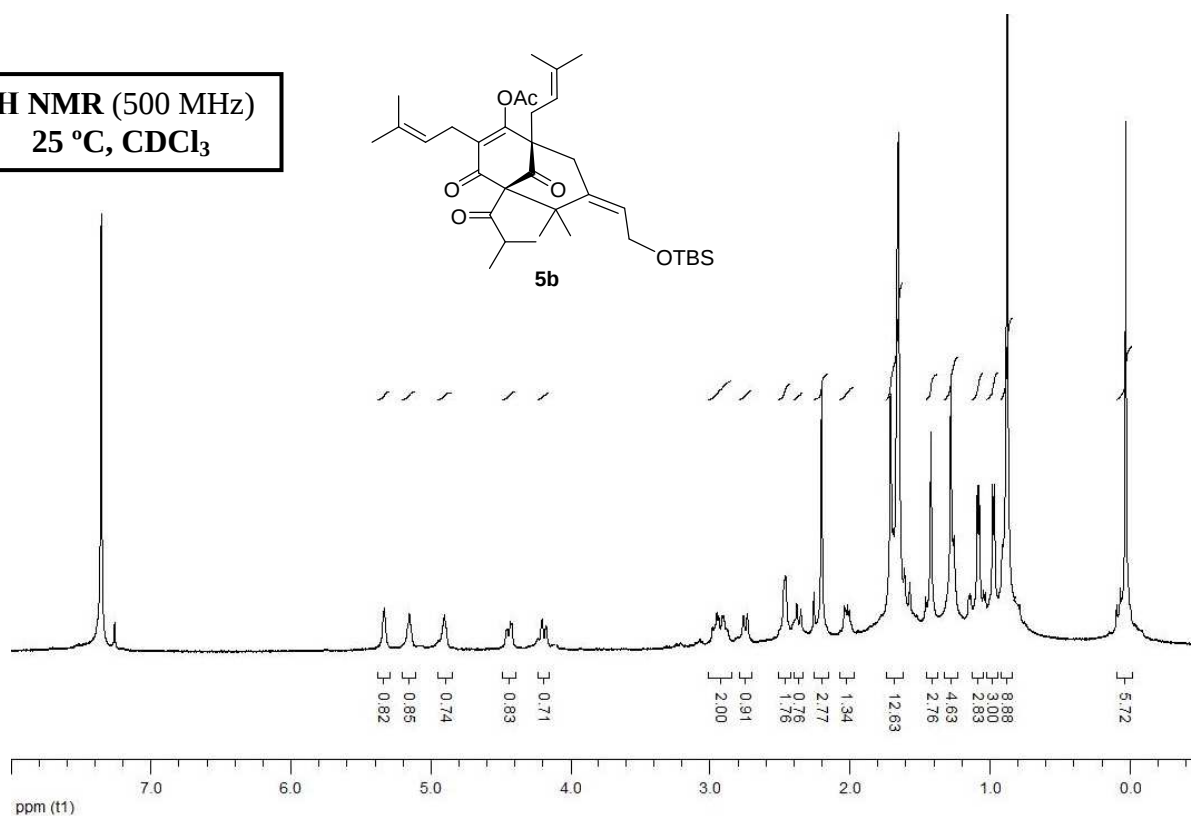
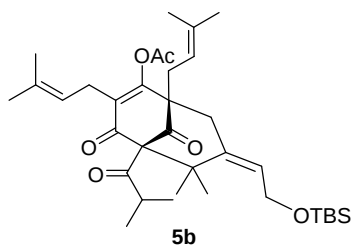
^1H - ^{13}C (HSQC) NMR (125 MHz, CDCl_3) for compound **12a**



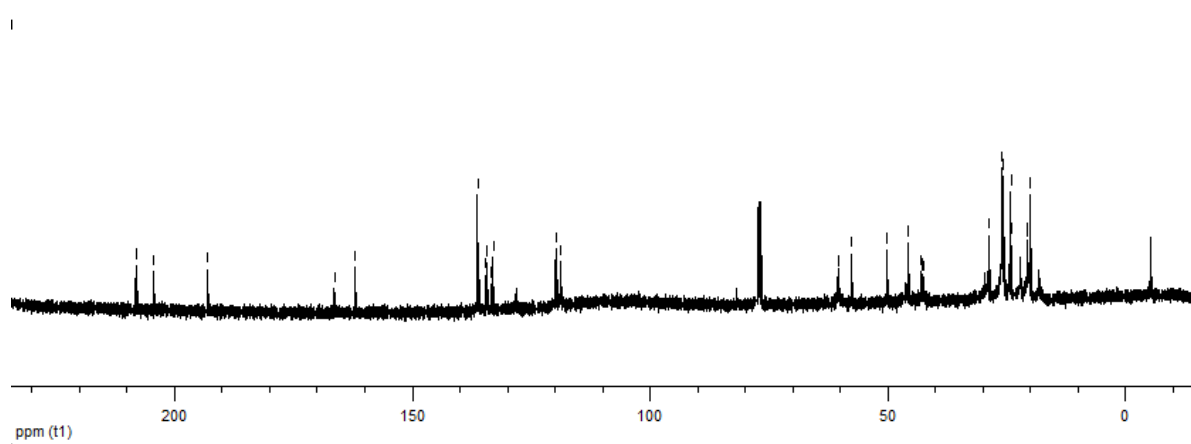
^1H - ^{13}C (HMBC) NMR (125 MHz, CDCl_3) for compound **12a**

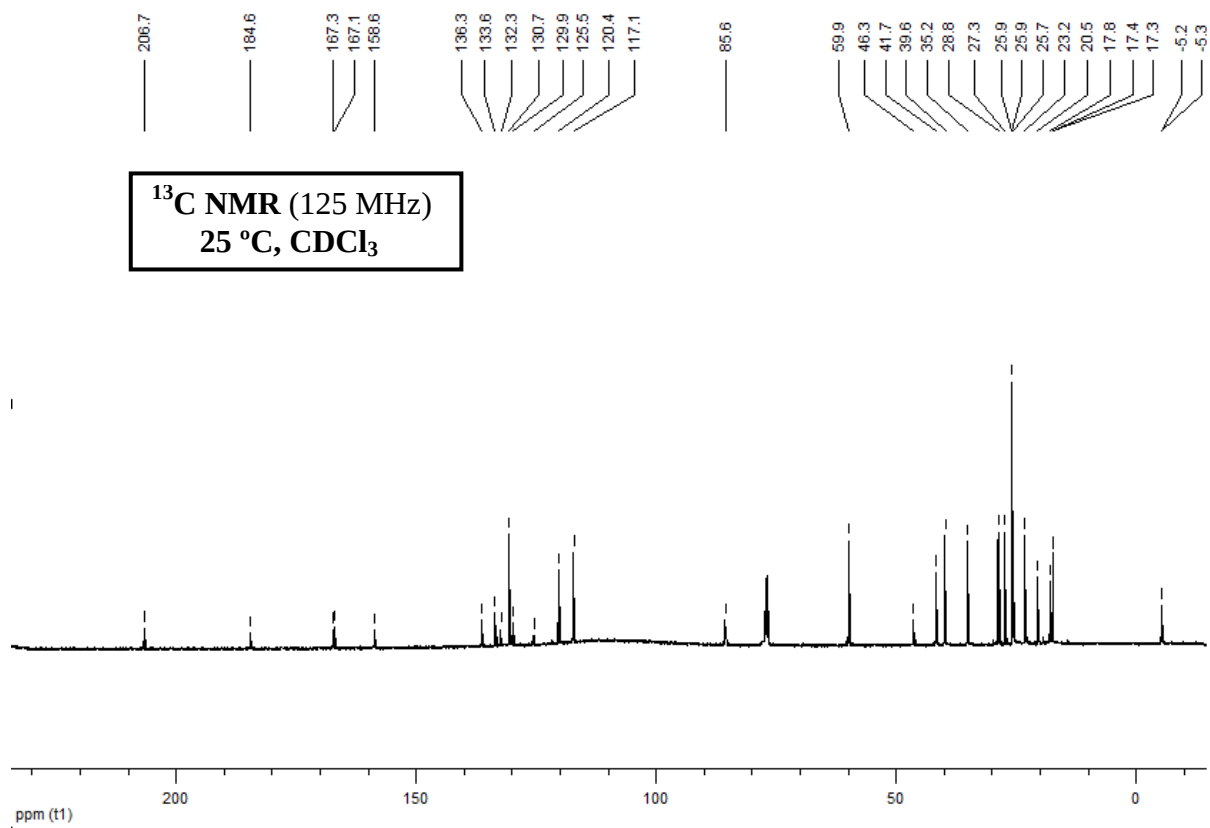
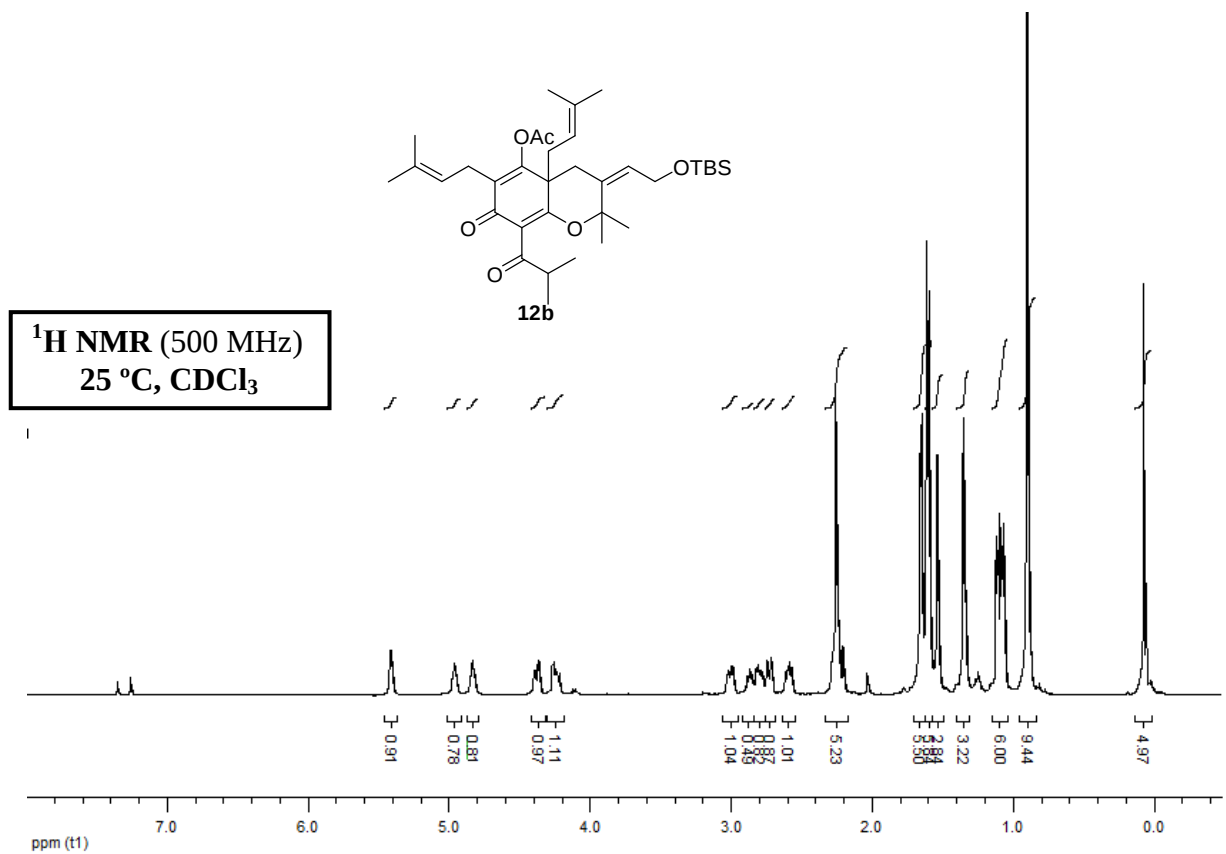


^1H NMR (500 MHz)
25 °C, CDCl_3

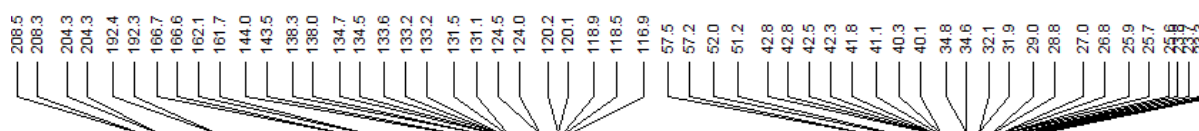
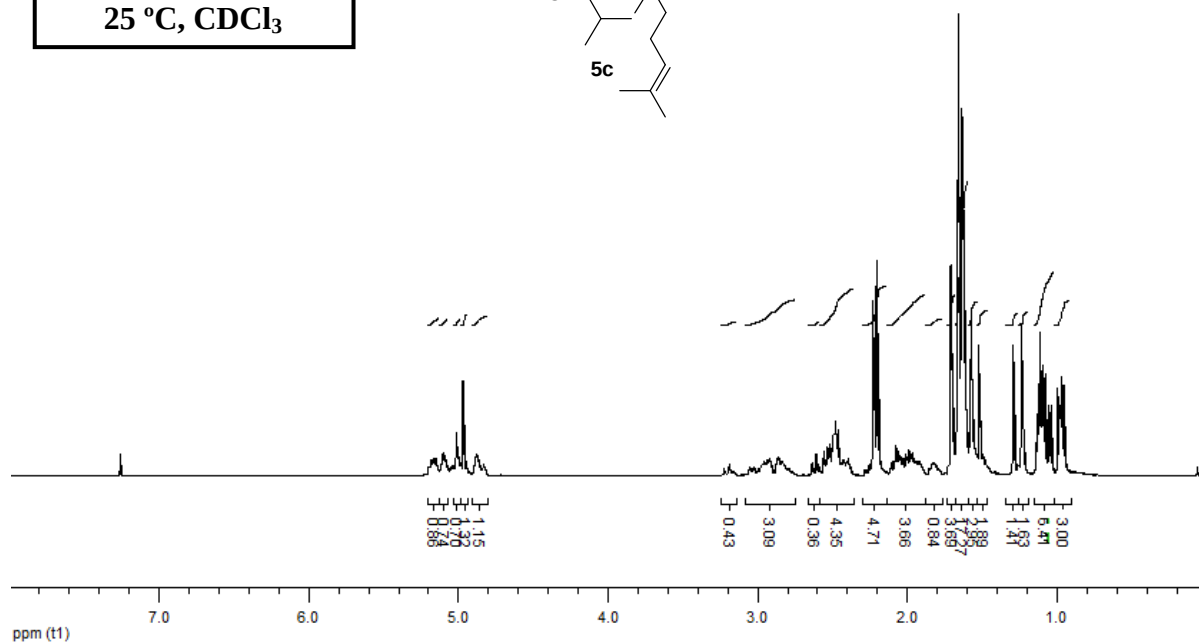
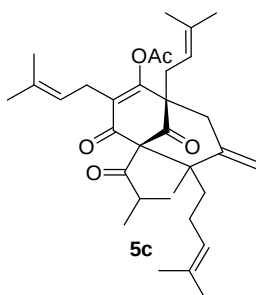


^{13}C NMR (125 MHz)
25 °C, CDCl_3

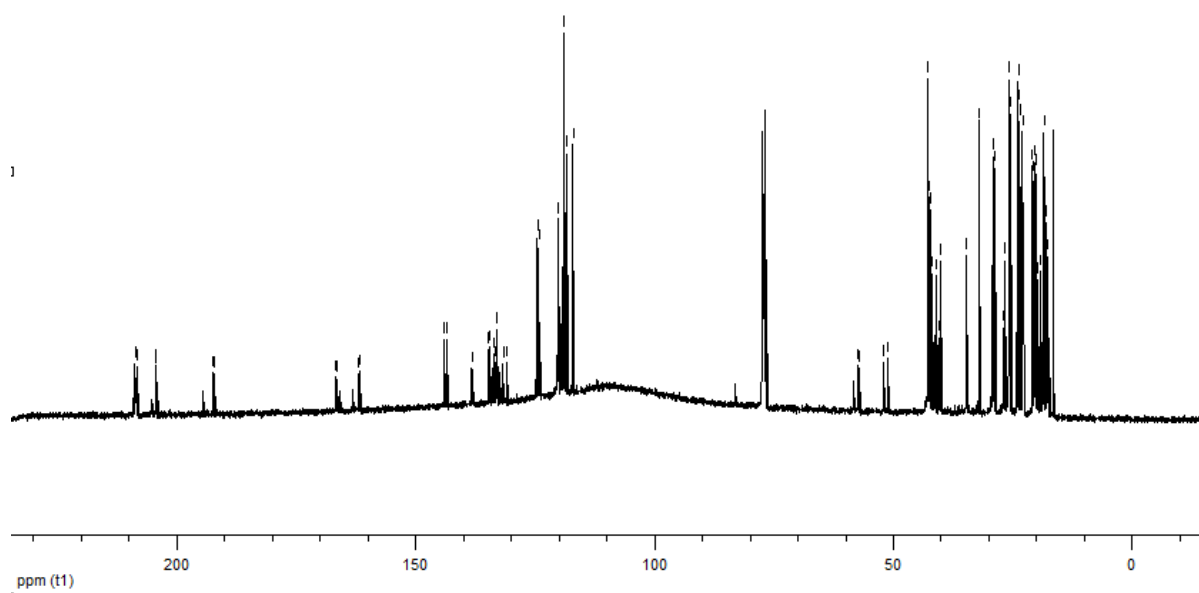




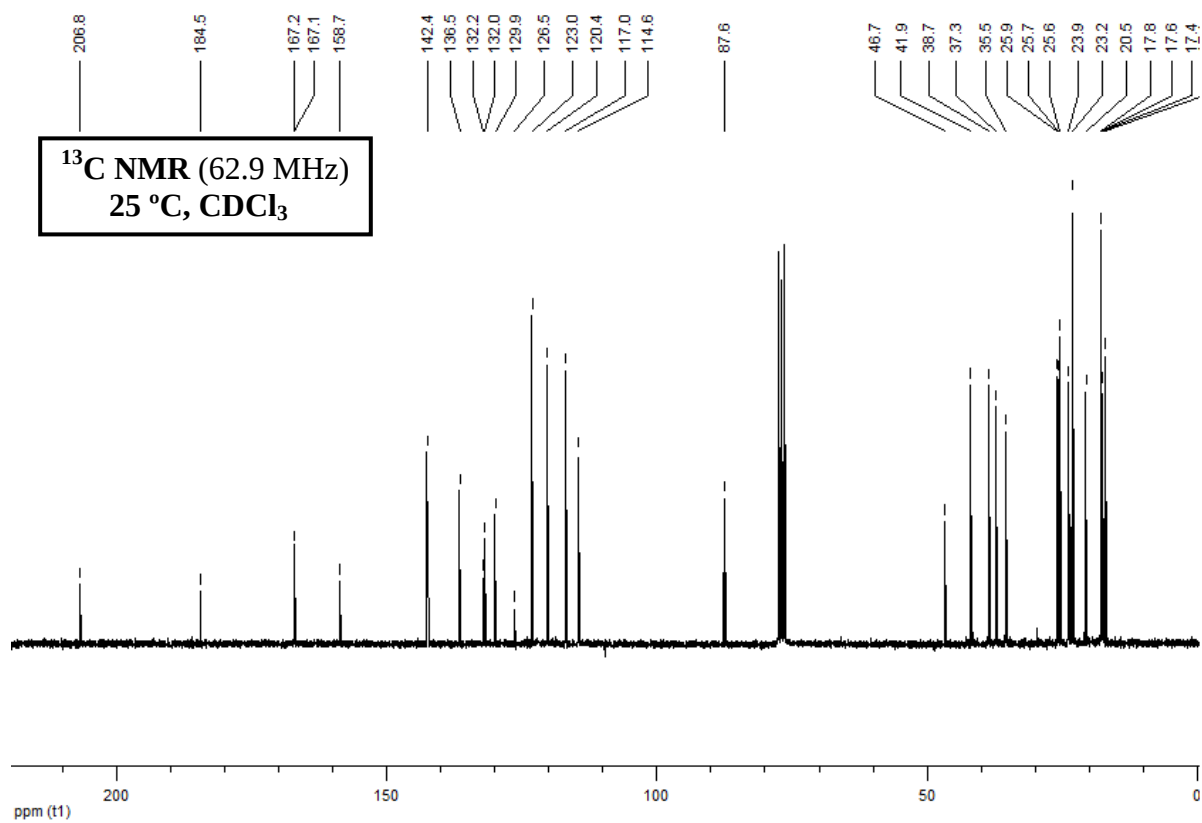
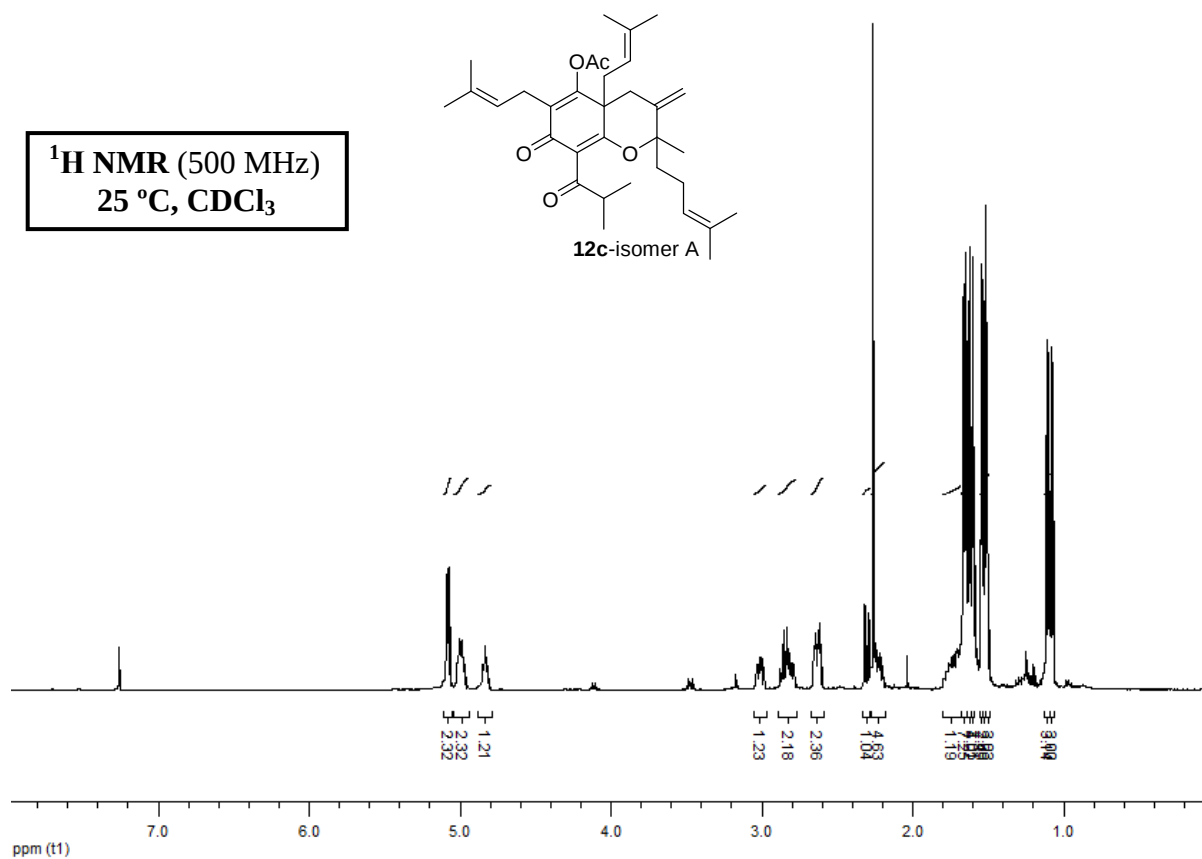
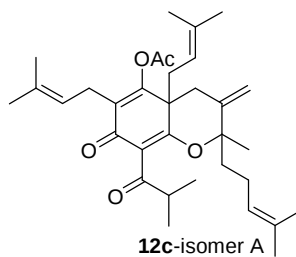
^1H NMR (500 MHz)
25 °C, CDCl_3



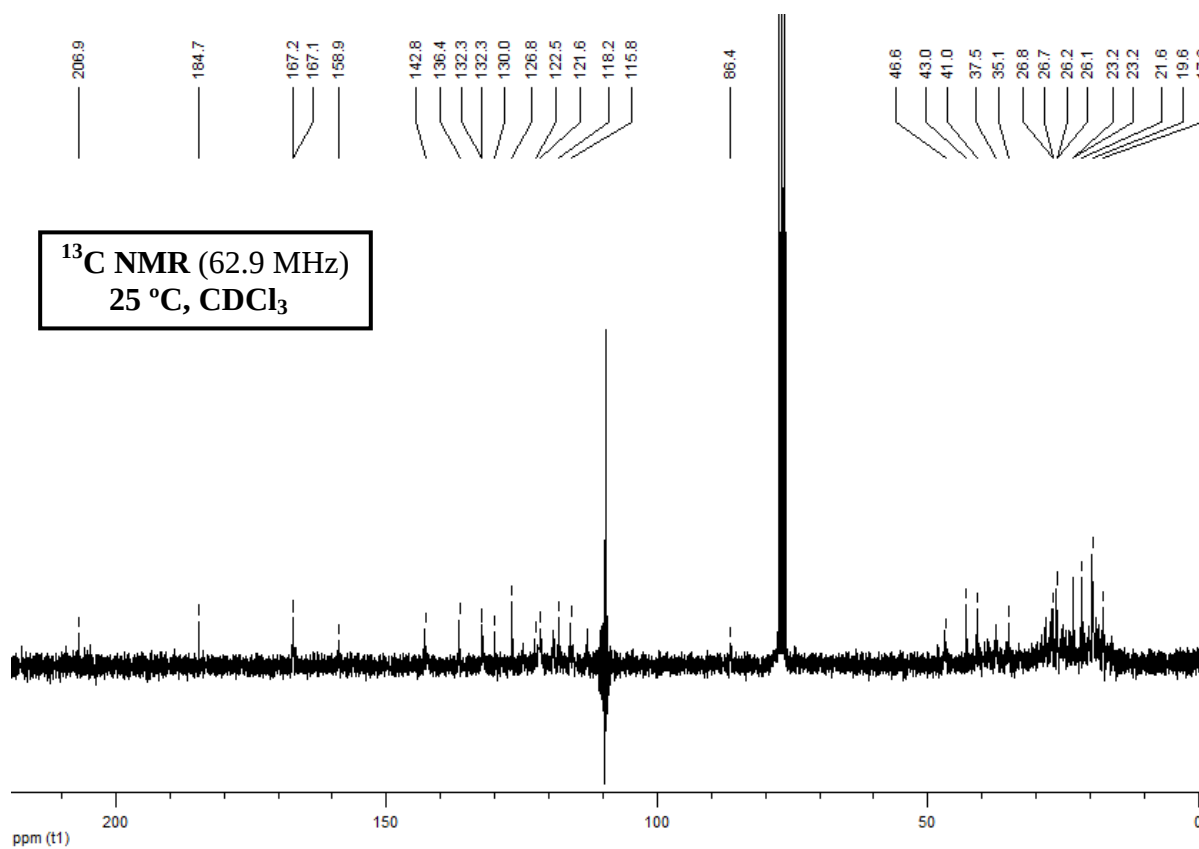
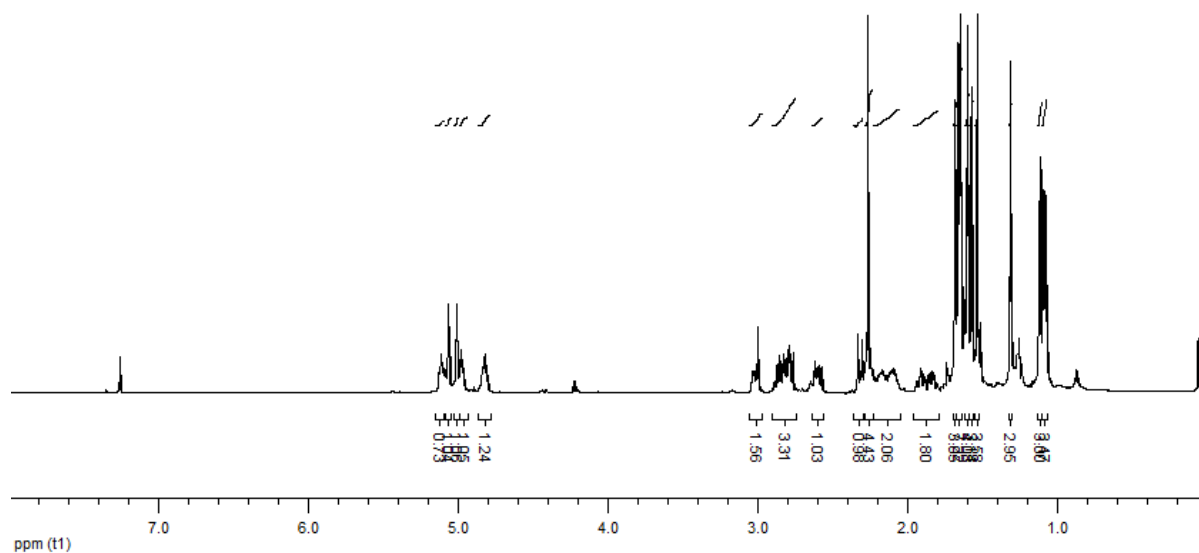
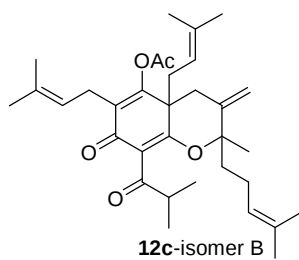
^{13}C NMR (125 MHz)
25 °C, CDCl_3



**^1H NMR (500 MHz)
25 °C, CDCl_3**

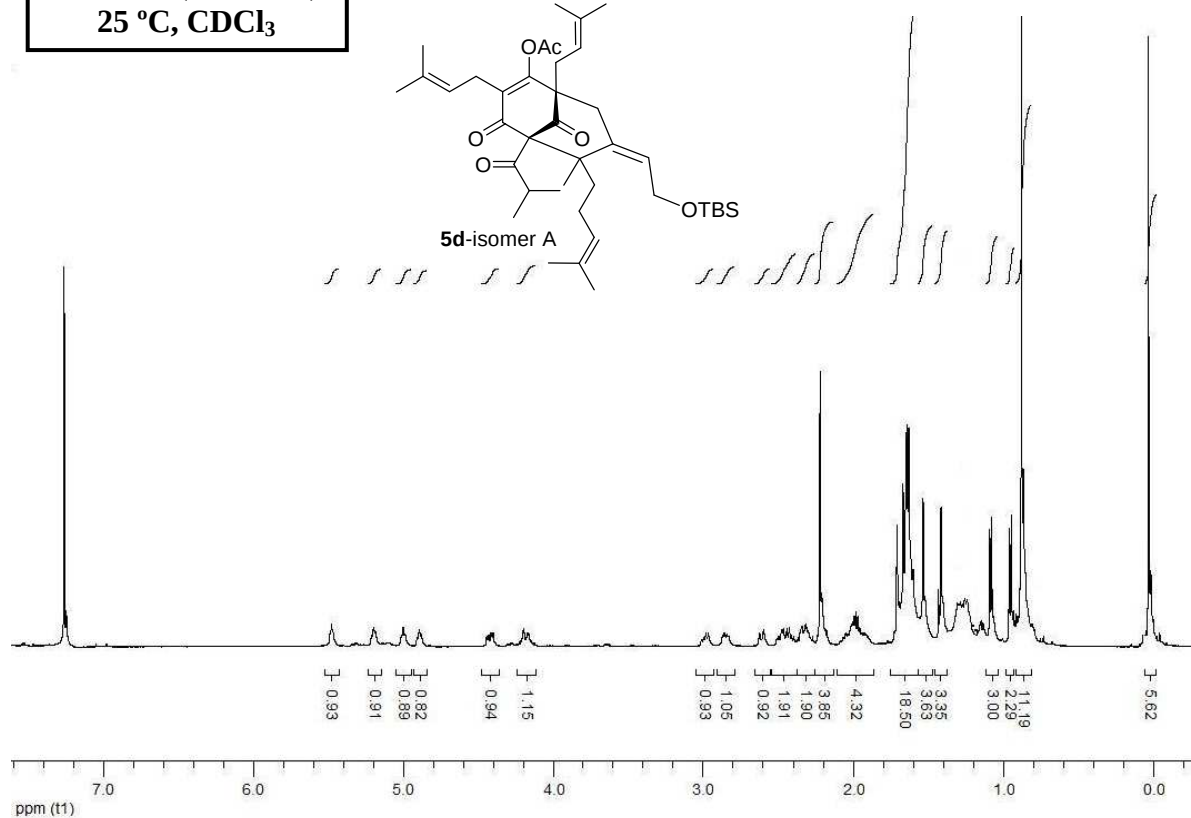
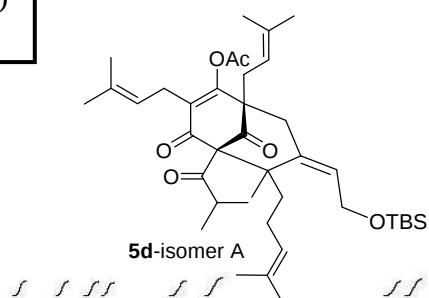


**^1H NMR (500 MHz)
25 °C, CDCl_3**



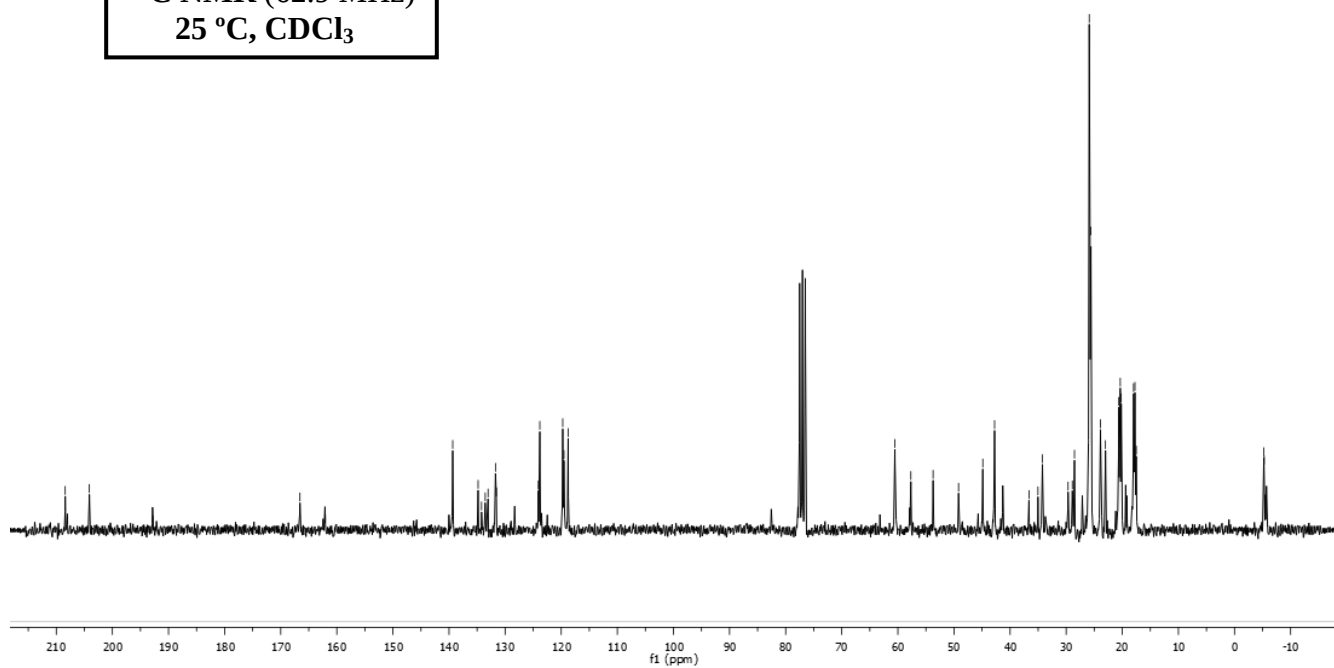
**^{13}C NMR (62.9 MHz)
25 °C, CDCl_3**

^1H NMR (500 MHz)
25 °C, CDCl_3

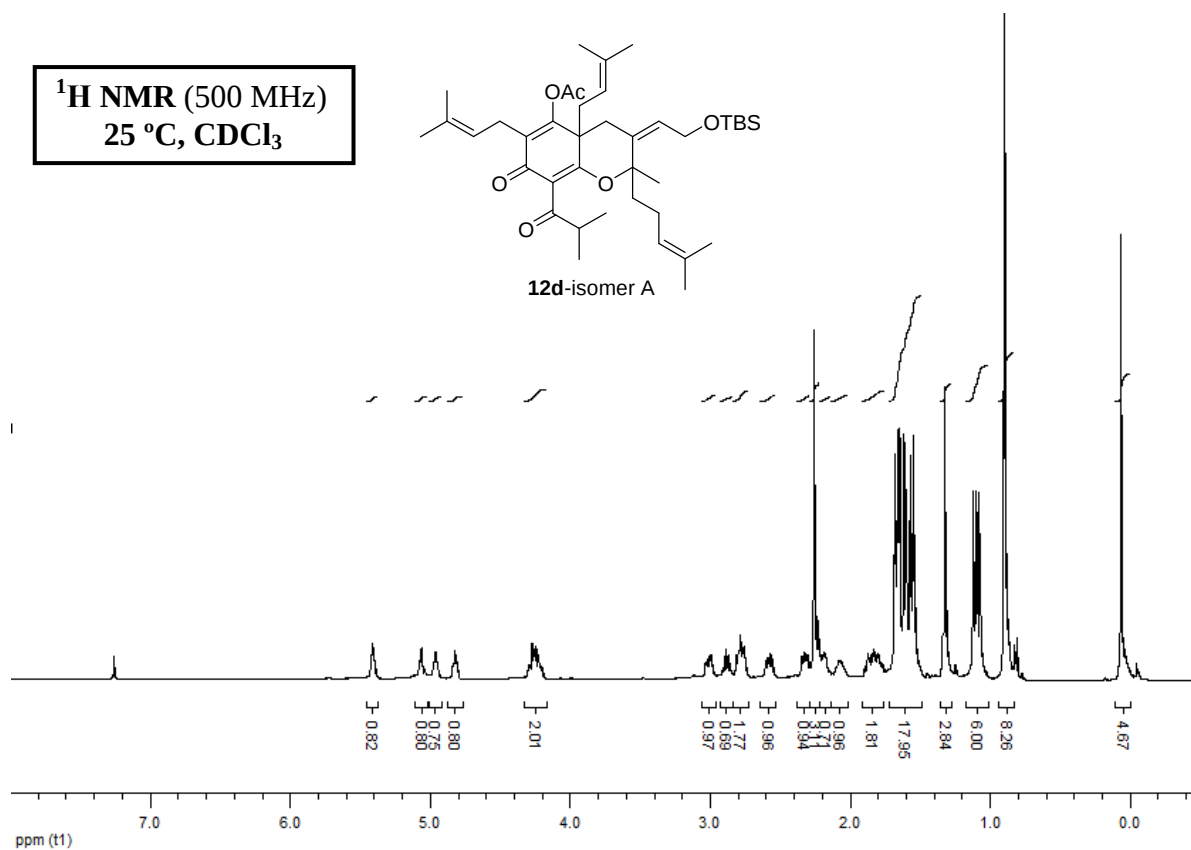
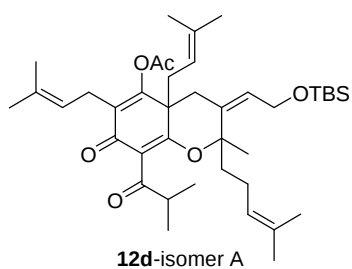


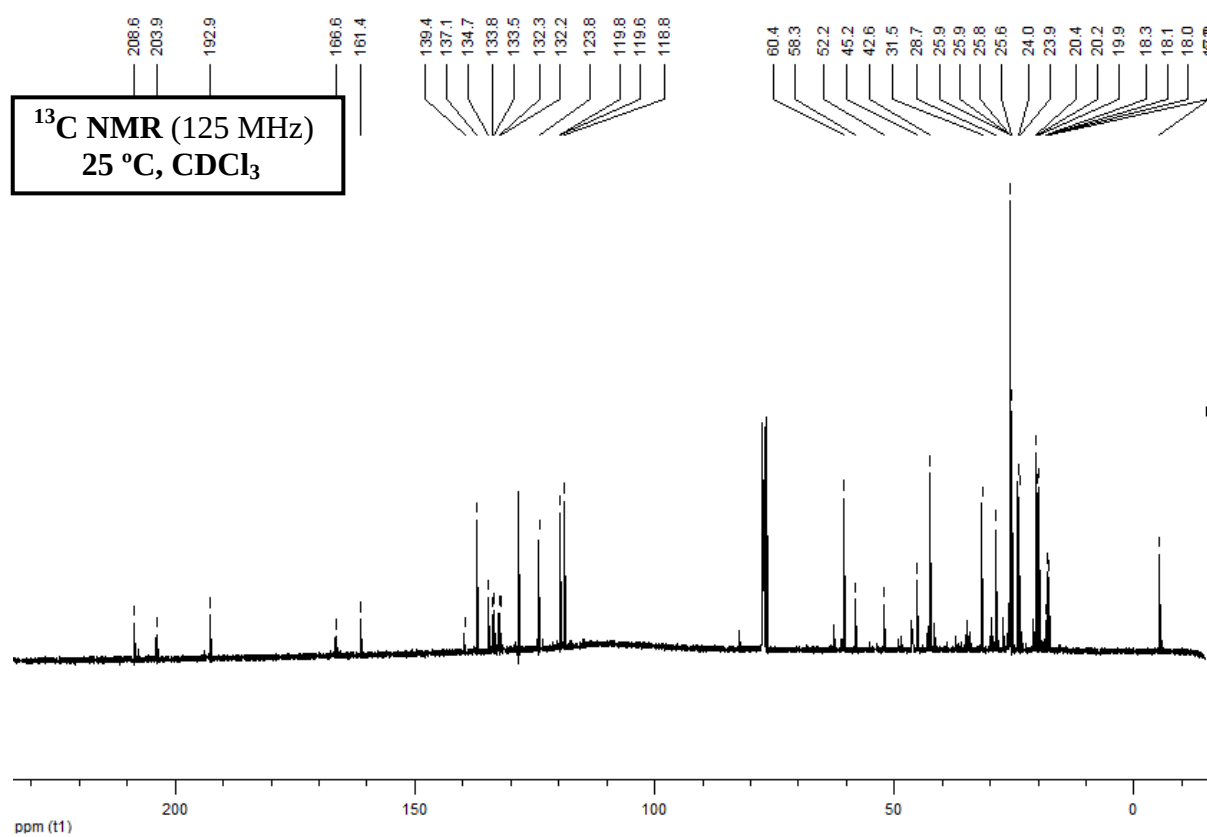
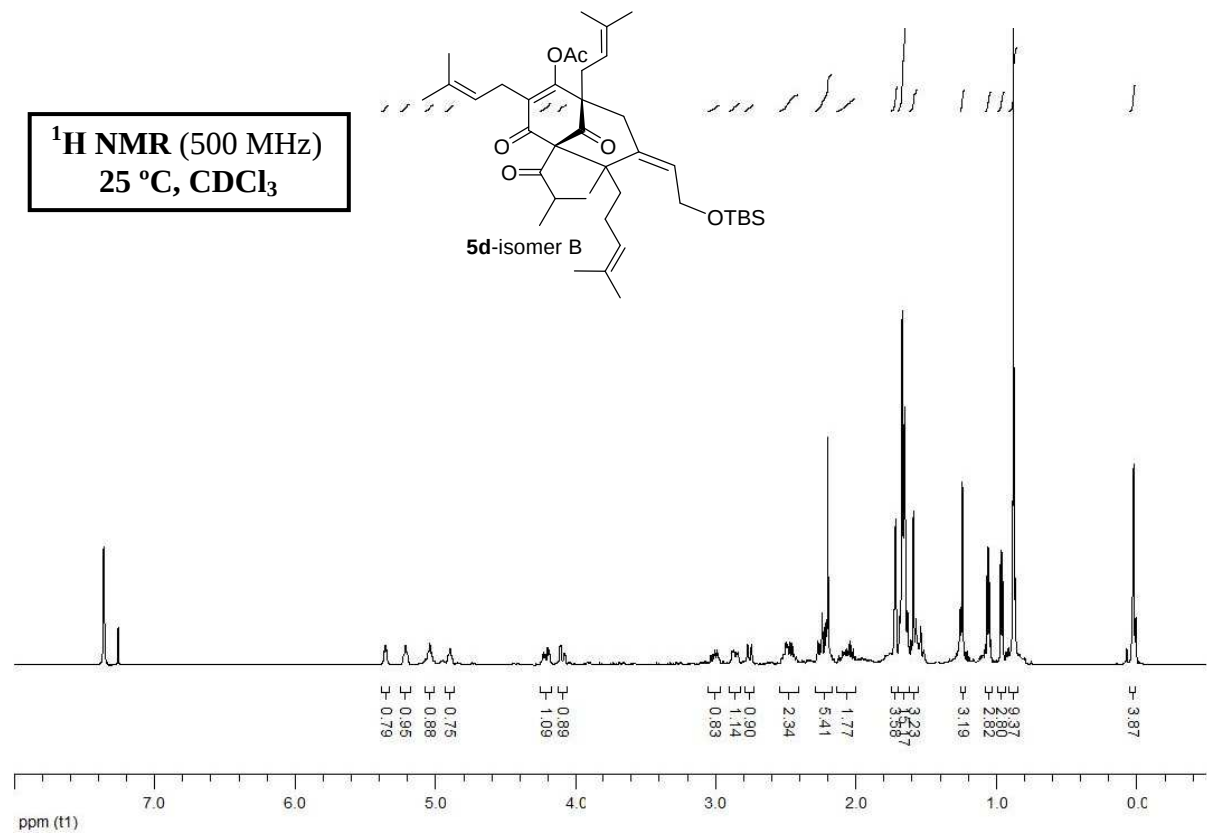
208.4, 204.1, 192.8, 166.6, 162.0, 139.3, 131.6, 124.1, 123.8, 119.7, 119.5, 118.8, 60.5, 57.7, 53.7, 49.2, 42.8, 34.2, 33.9, 20.6, 20.4, 20.2, 18.0, 17.7, 17.5, 5.2, 5.3

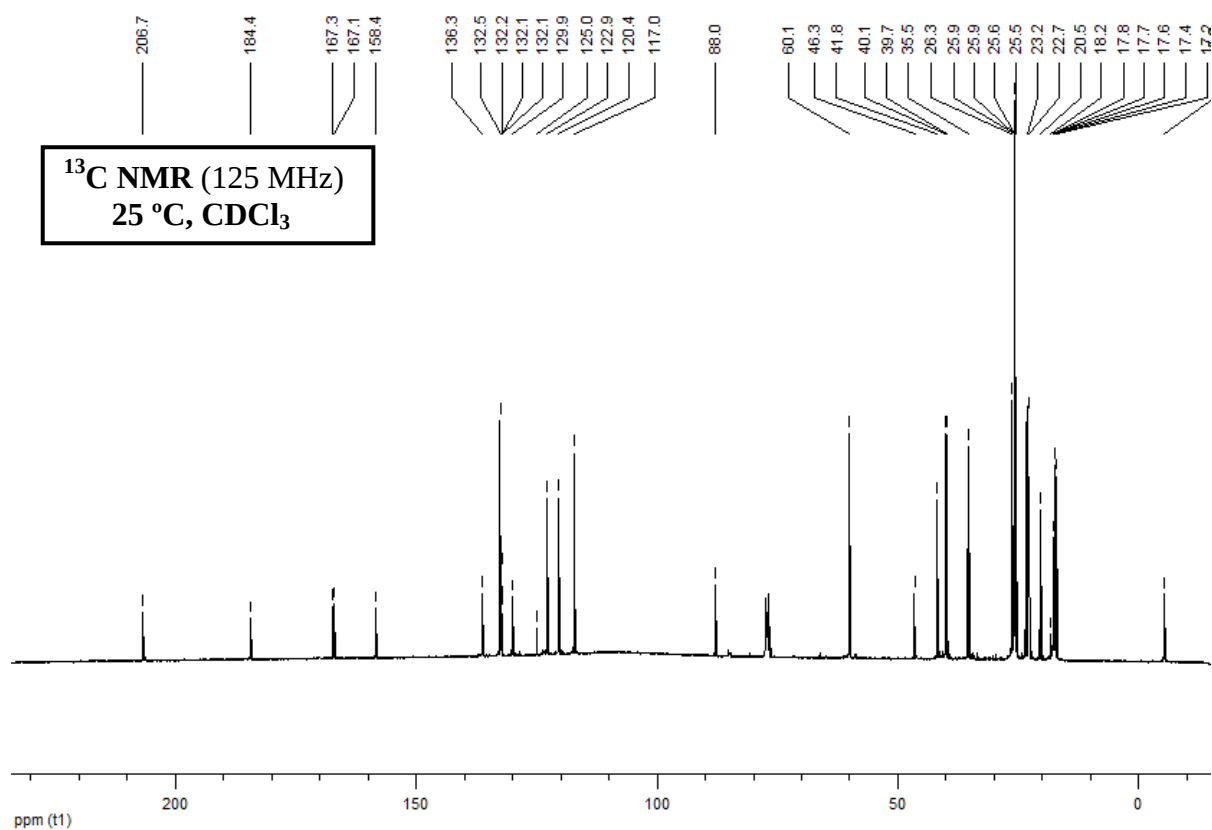
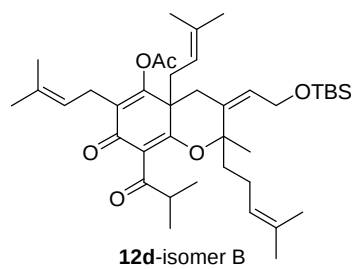
^{13}C NMR (62.9 MHz)
25 °C, CDCl_3



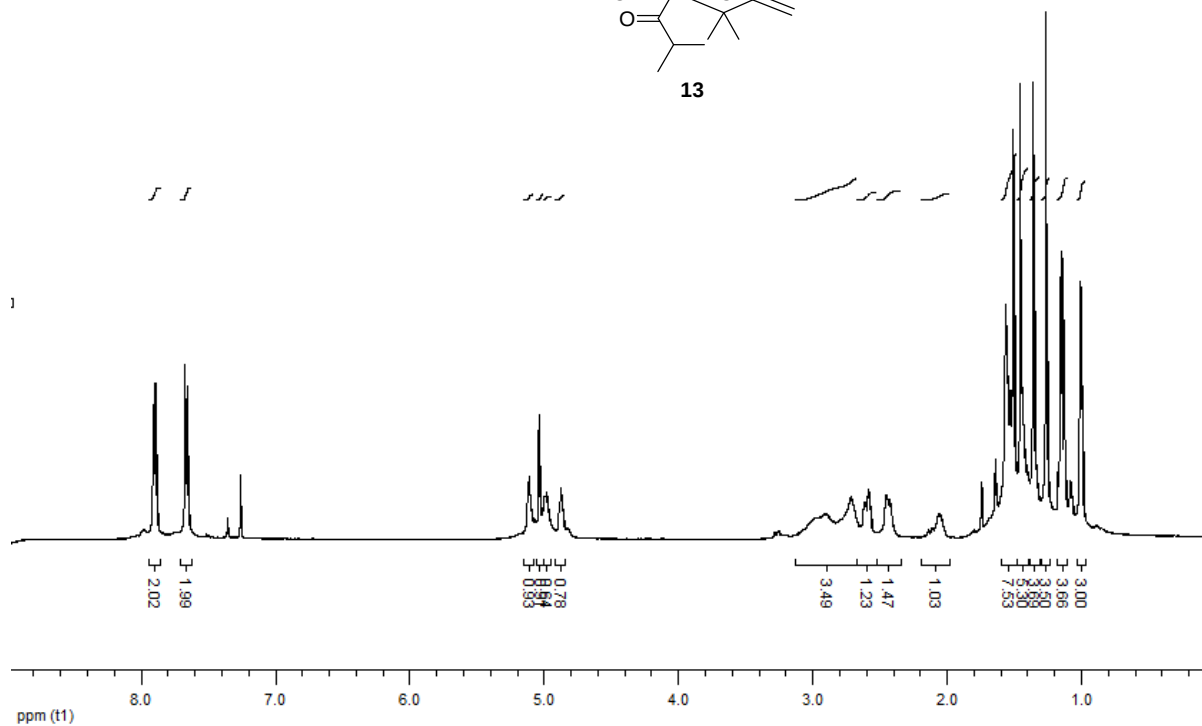
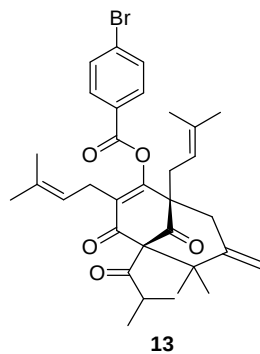
**^1H NMR (500 MHz)
25 °C, CDCl_3**



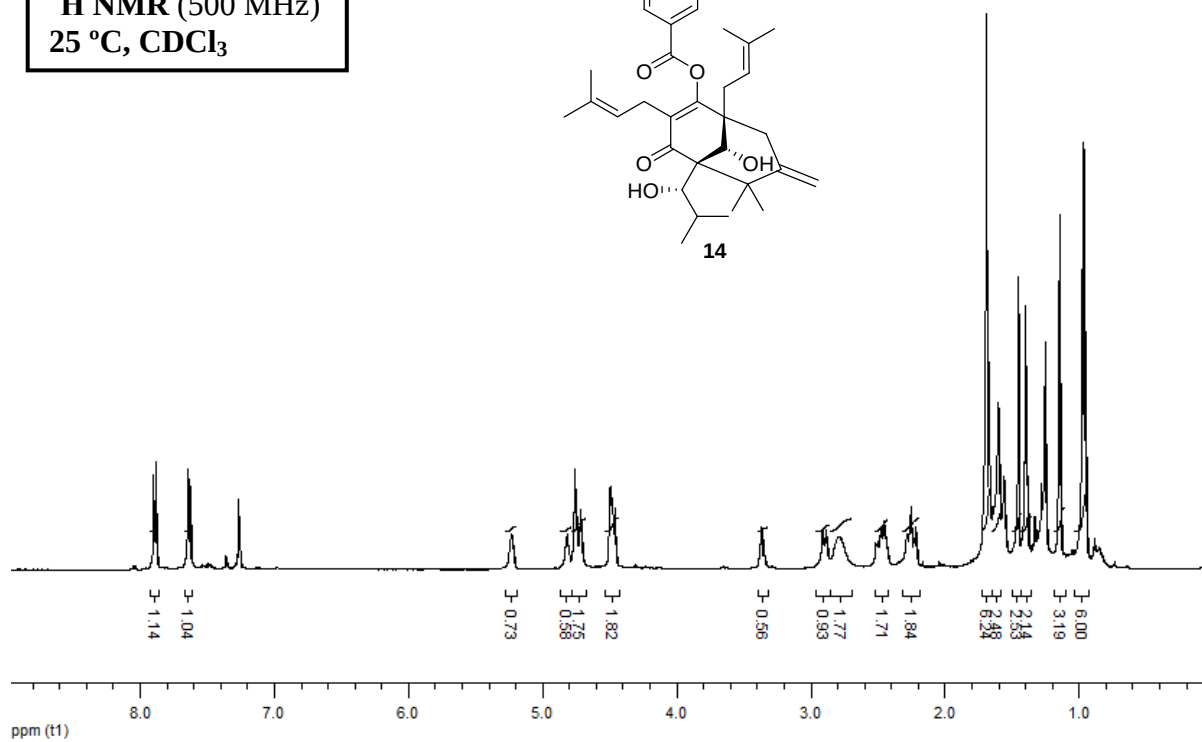
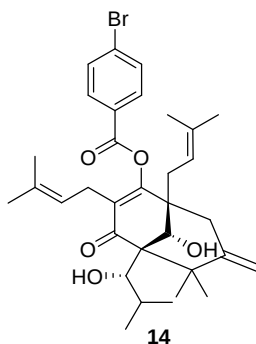


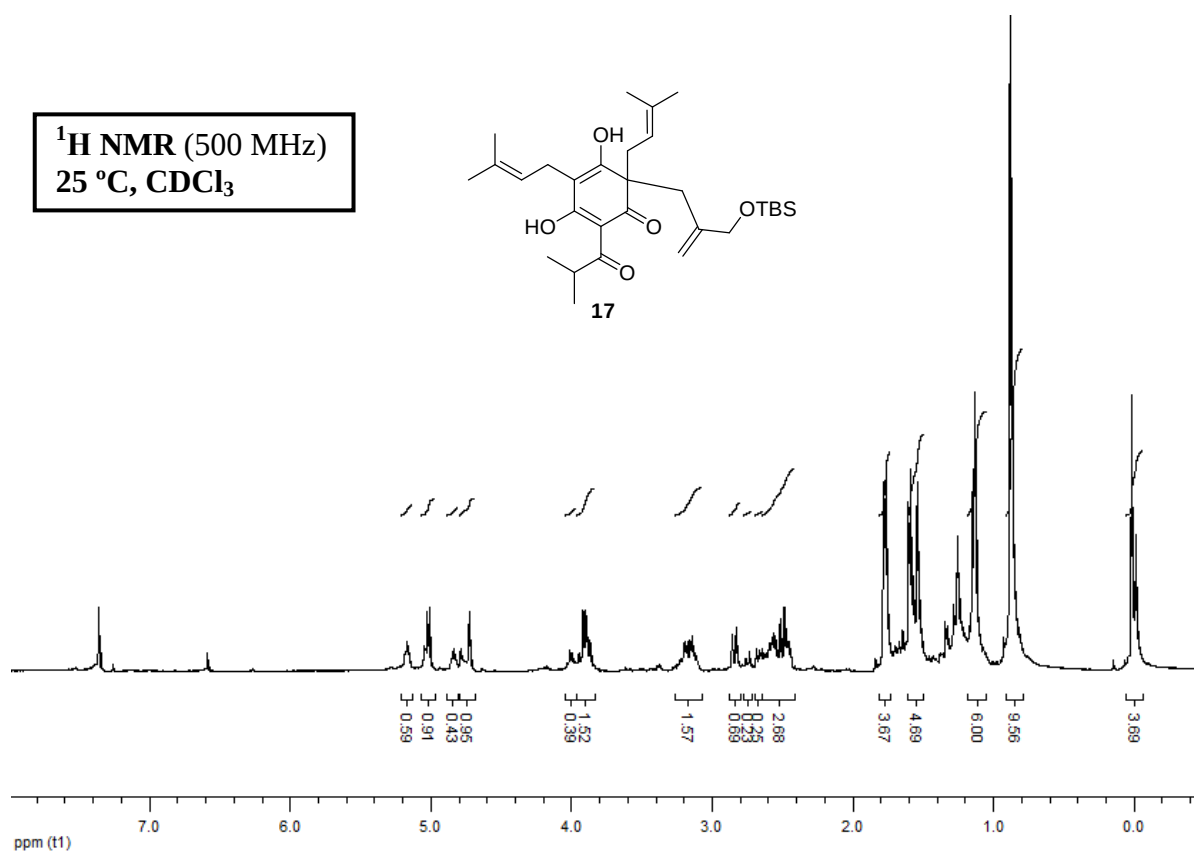
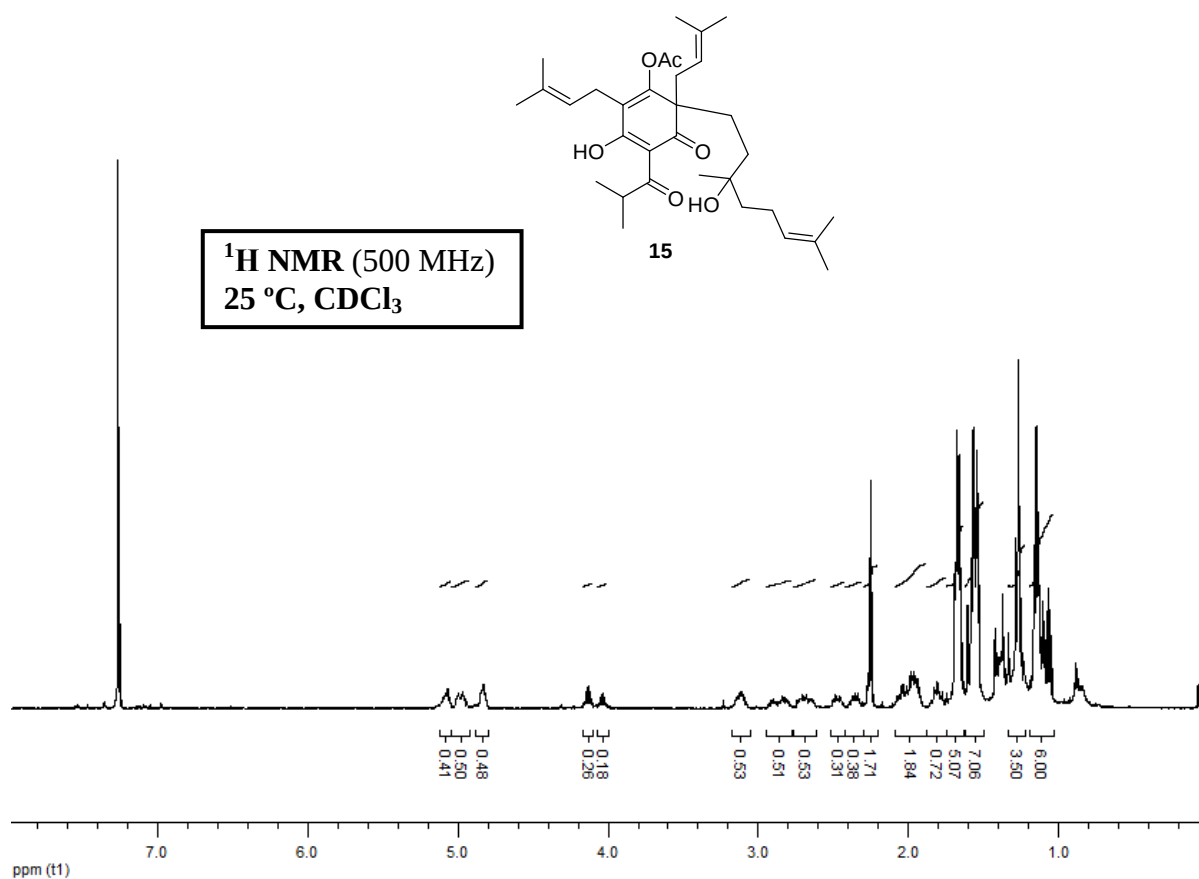


**^1H NMR (500 MHz)
25 °C, CDCl_3**

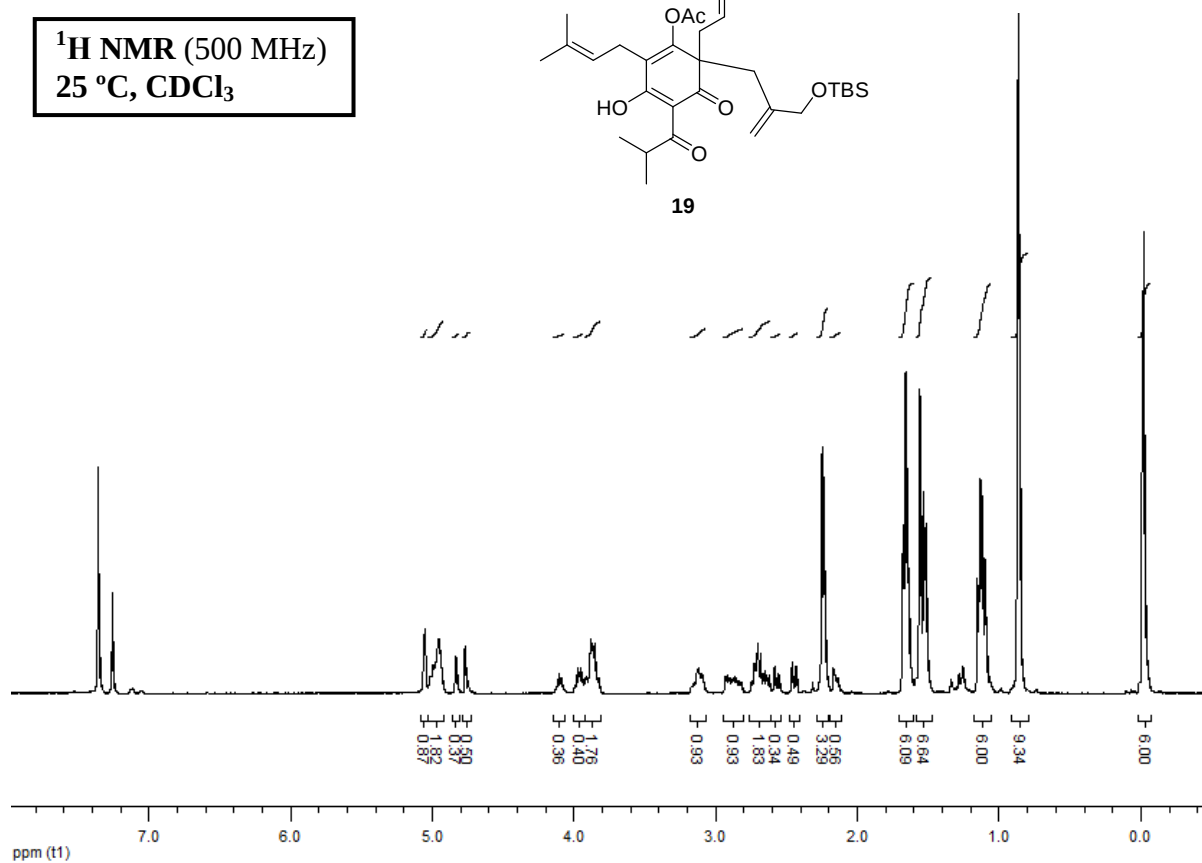
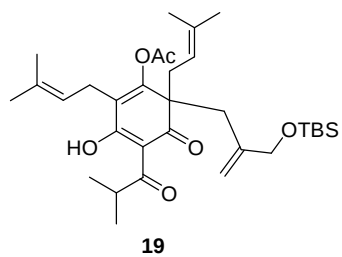


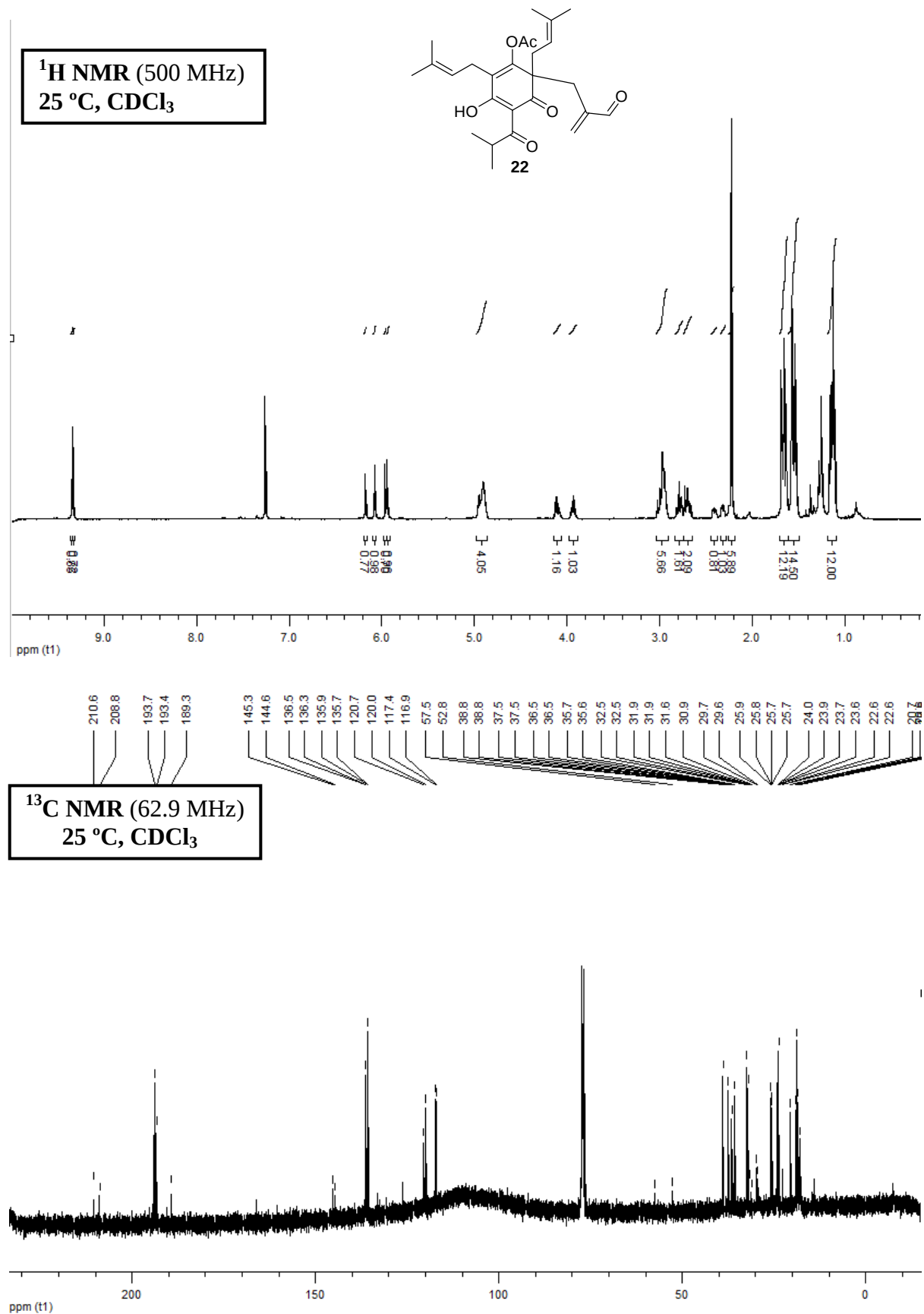
**^1H NMR (500 MHz)
25 °C, CDCl_3**



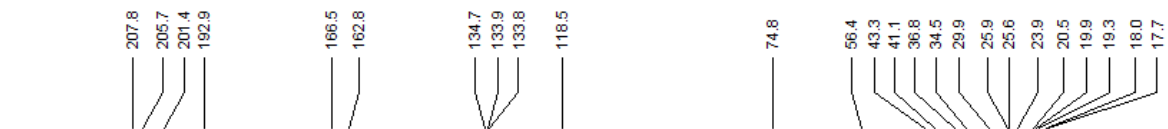
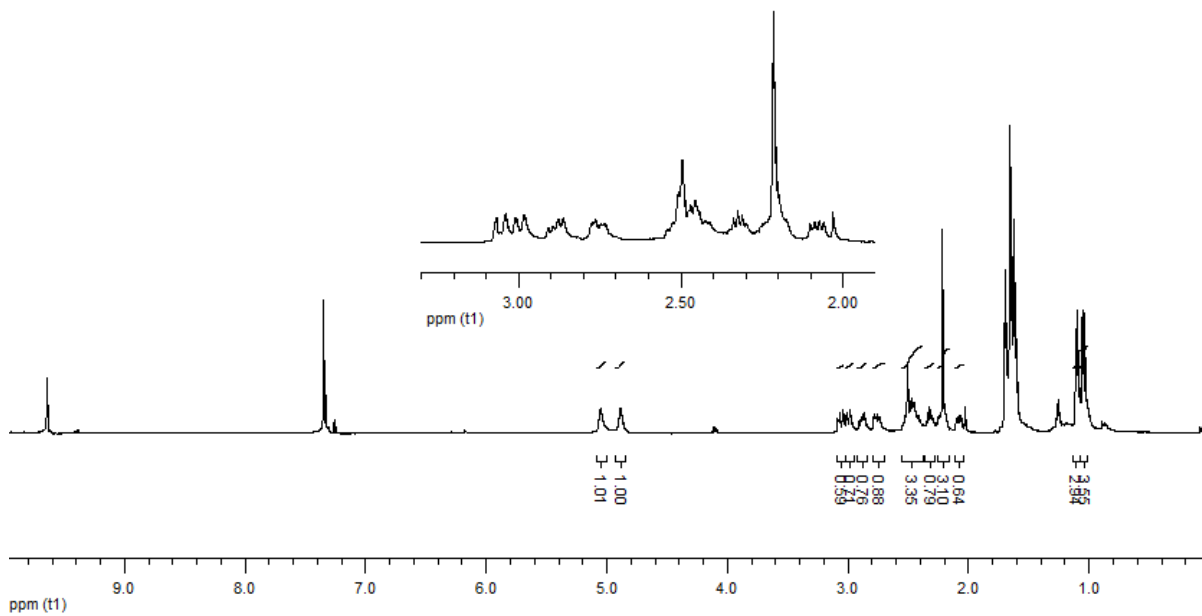
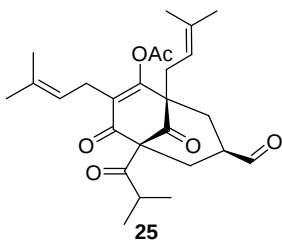


^1H NMR (500 MHz)
25 °C, CDCl_3

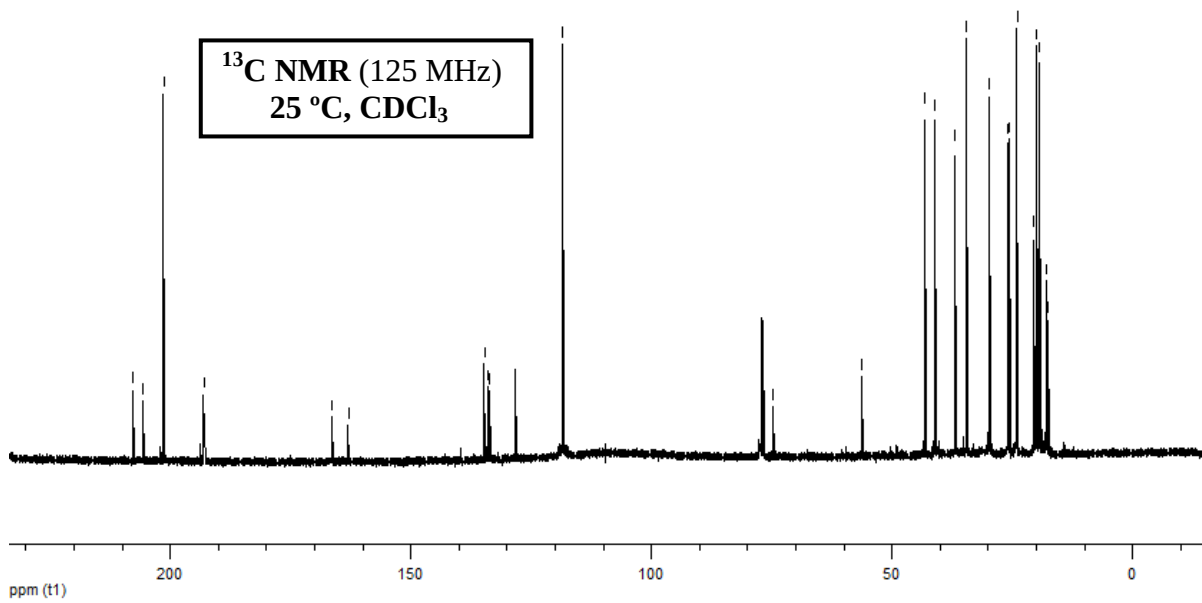




¹H NMR (500 MHz)
 25 °C, CDCl₃



**^{13}C NMR (125 MHz)
25 °C, CDCl_3**



**¹H NMR (500 MHz)
25 °C, CDCl₃**

