

Supplementary Material

First stereoselective total synthesis of an anti-fouling agent, C₂-symmetric natural macrolide trichobotryside A

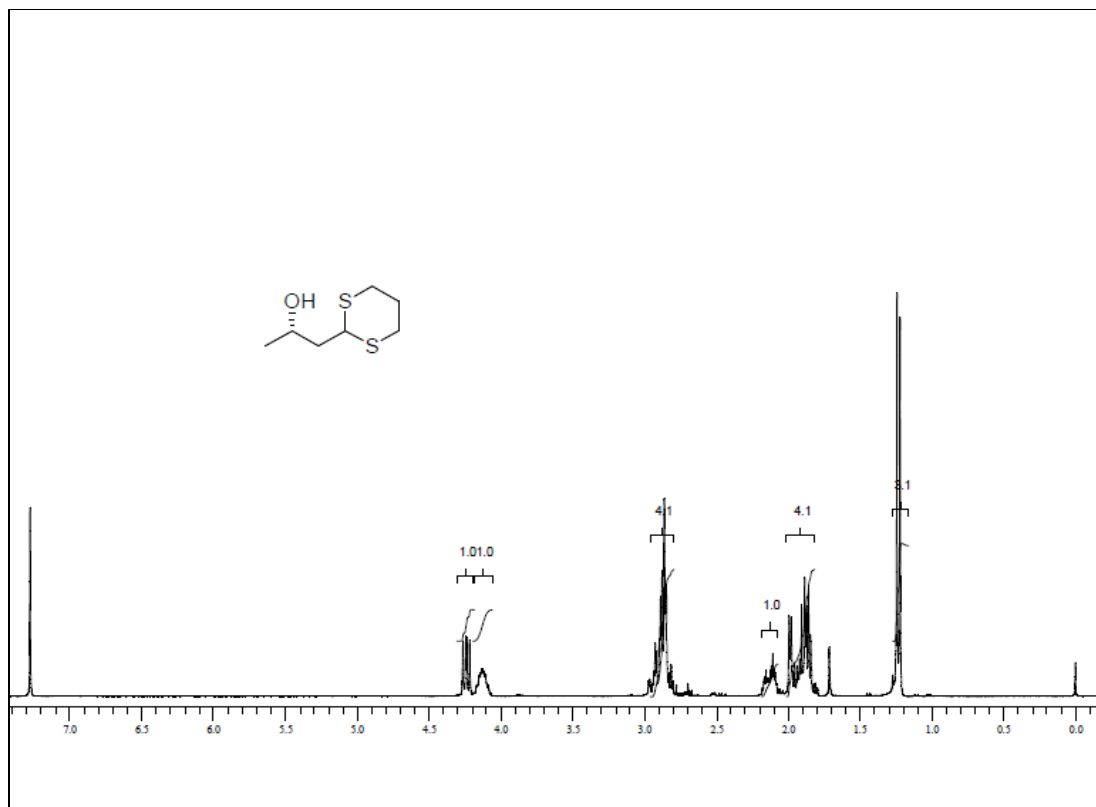
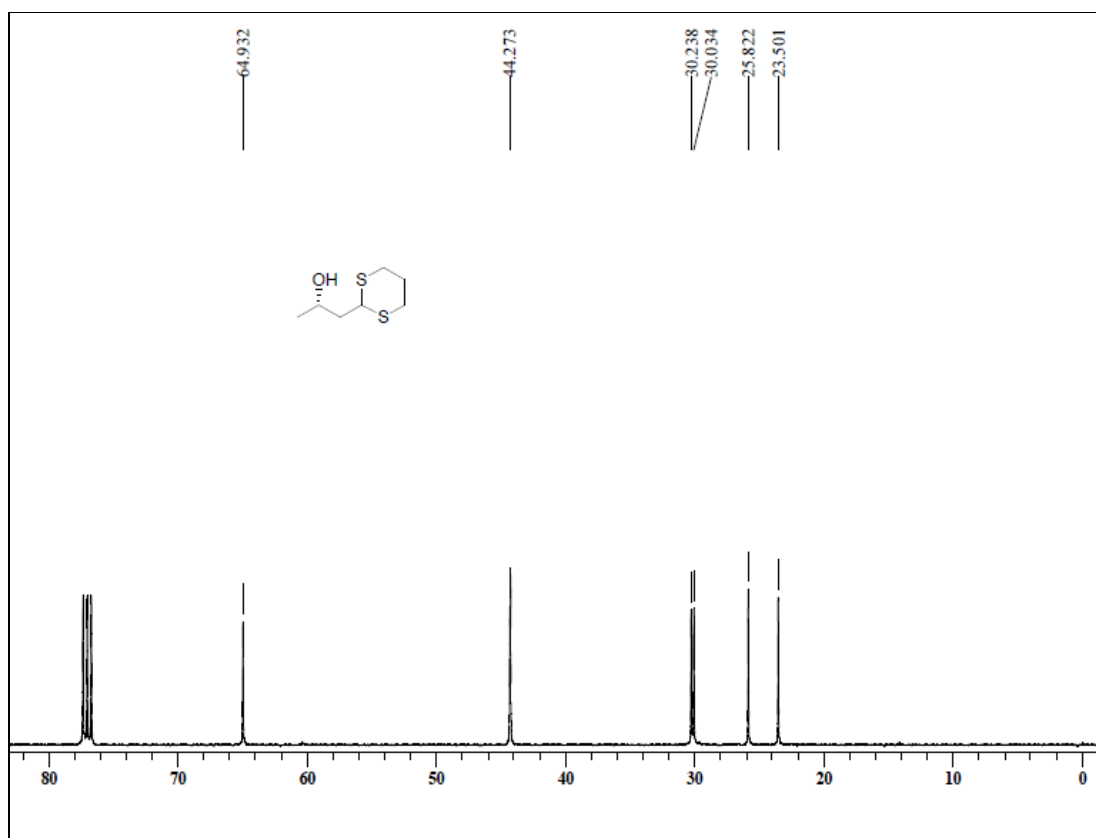
Siva Ganesh Narala, G. Nagalatha, and A. Venkat Narsaiah*

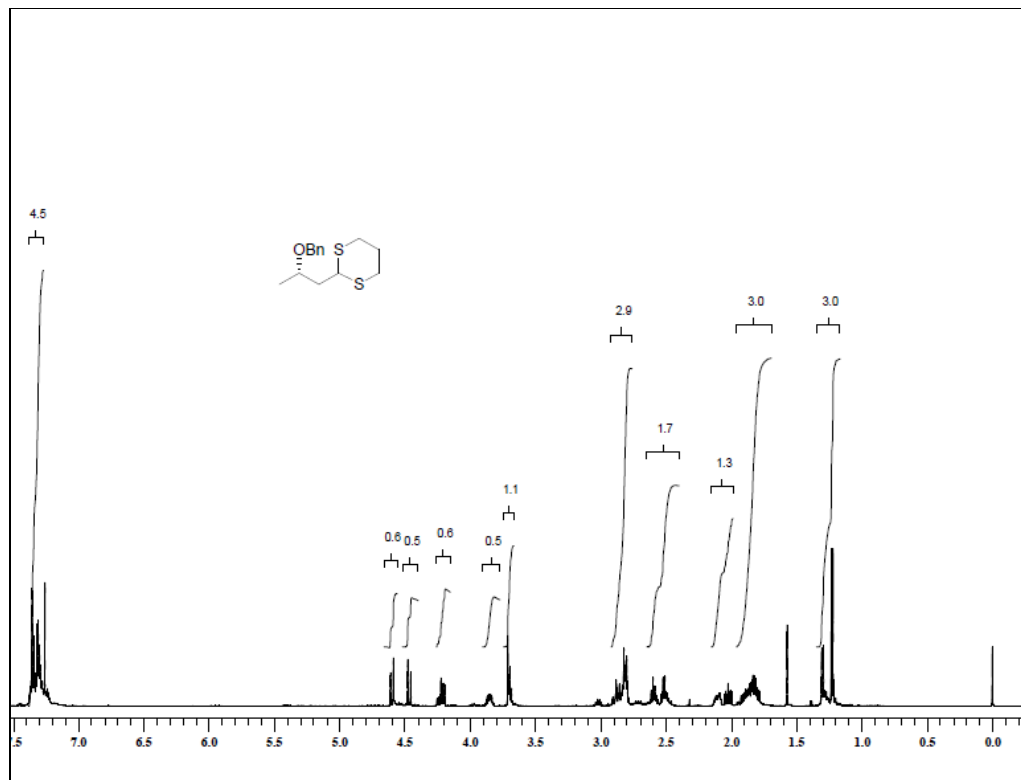
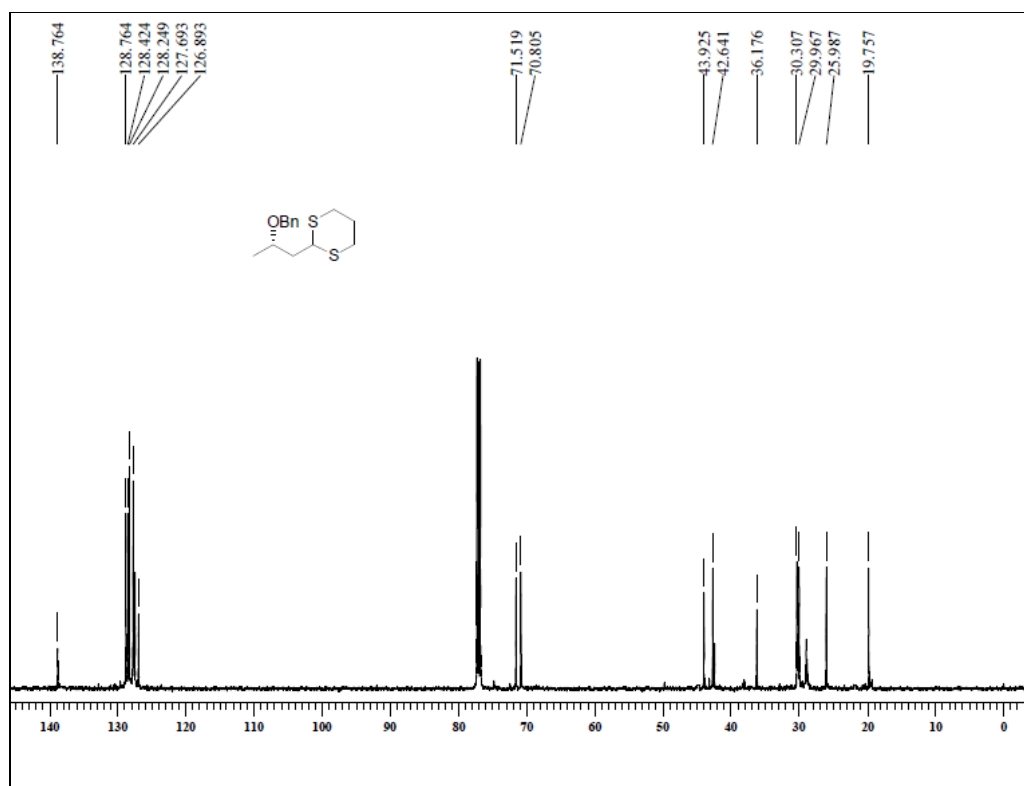
Organic Synthesis Laboratory, Fluoro-Agrochemicals Department, CSIR-Indian Institute of Chemical Technology, Hyderabad, 500007, Telangana, India

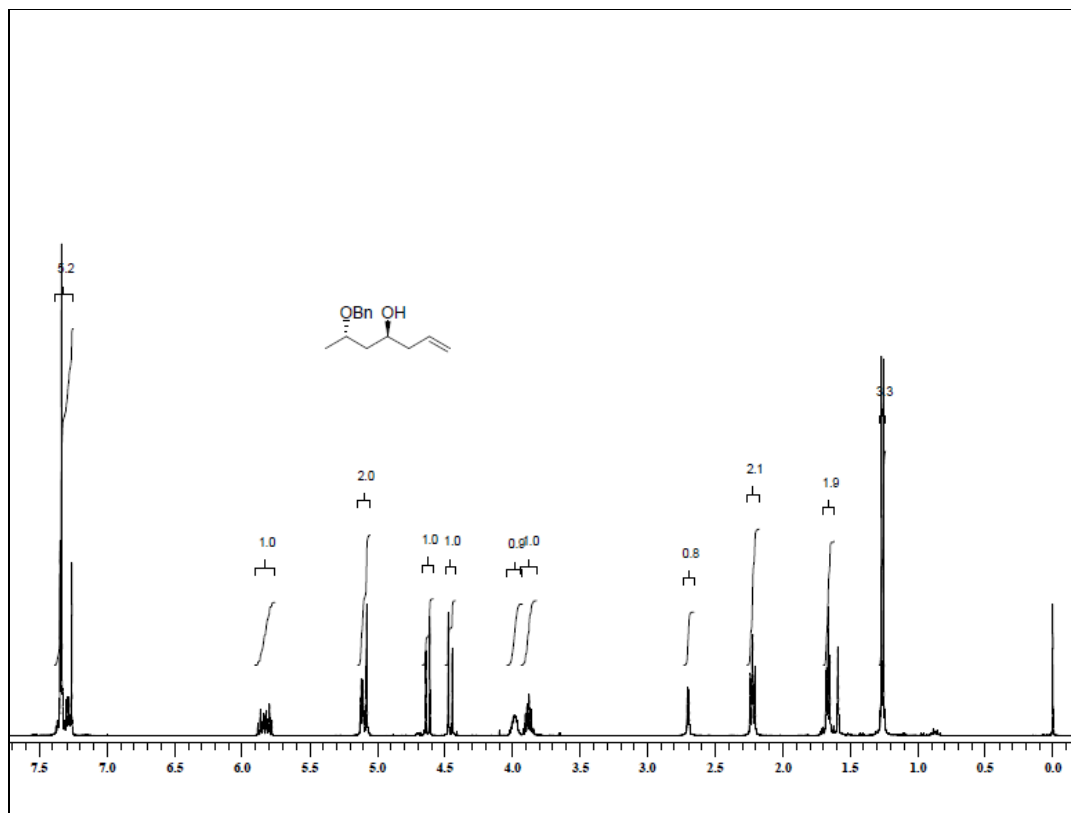
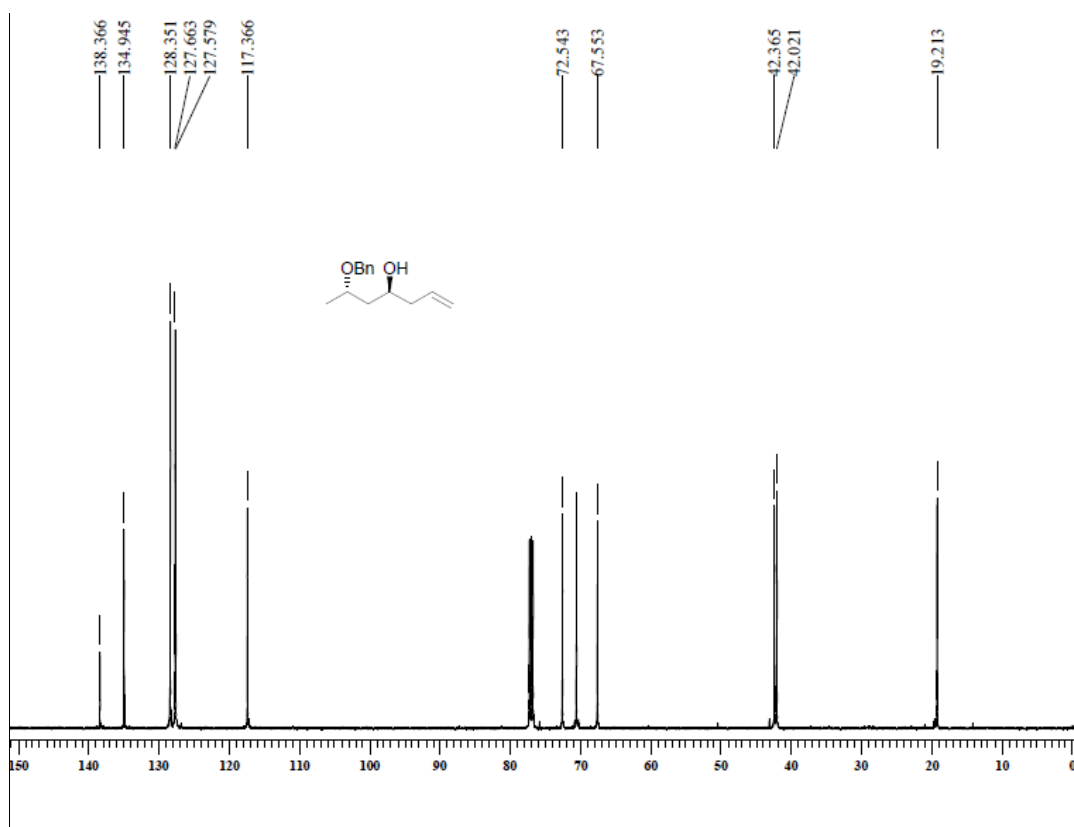
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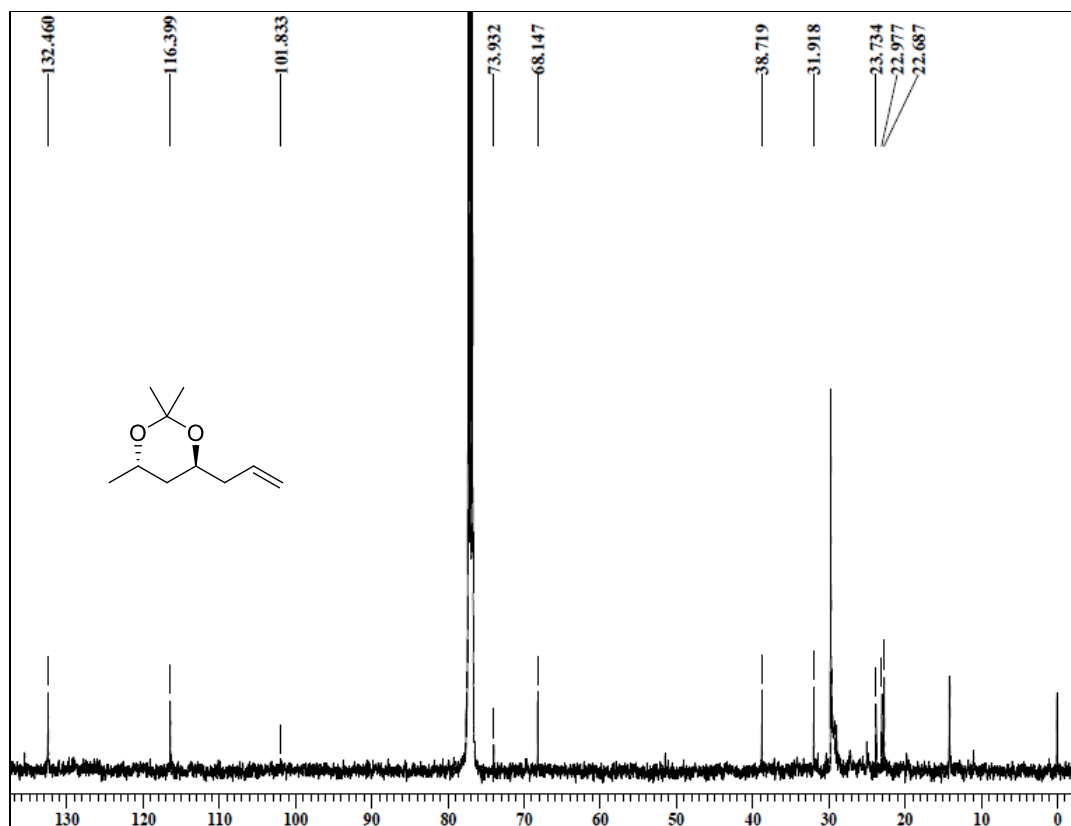
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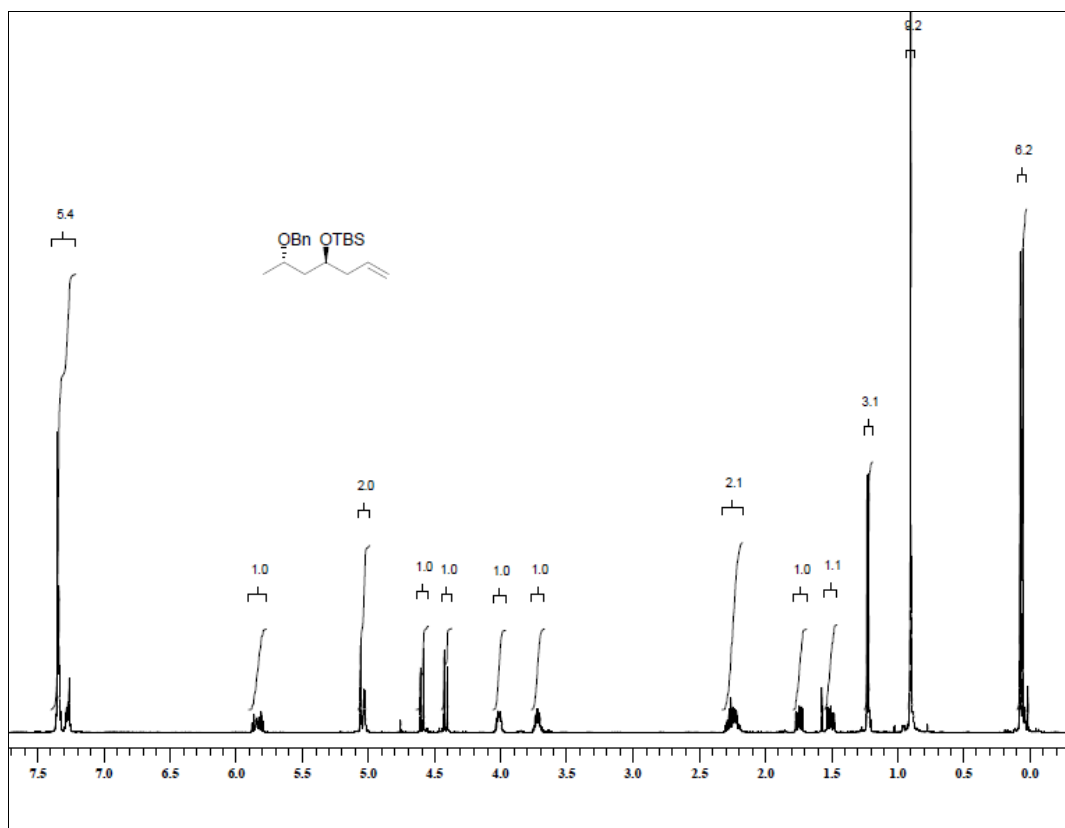
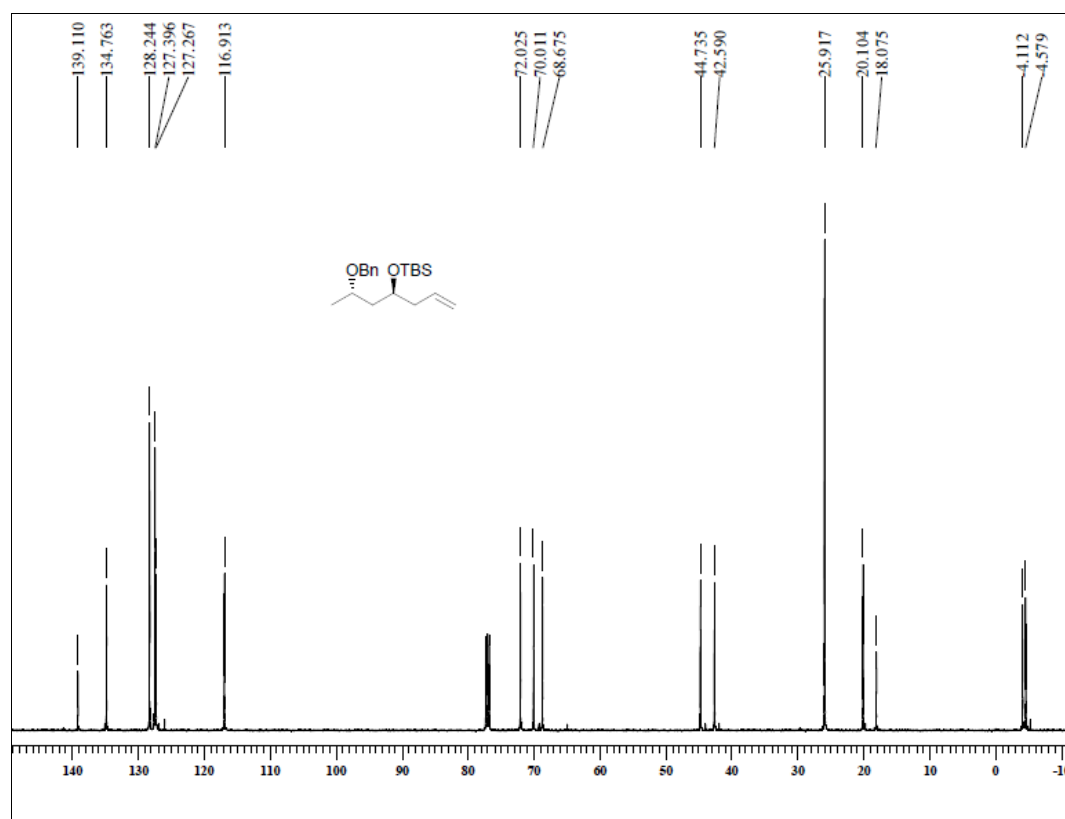
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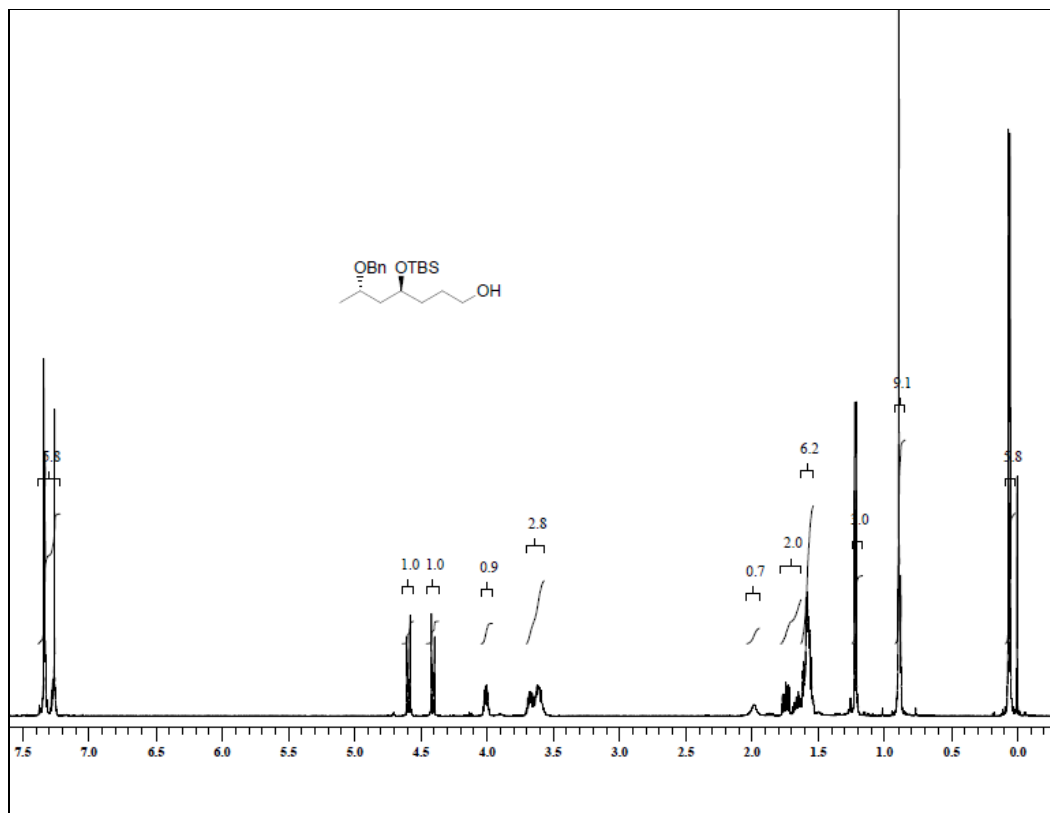
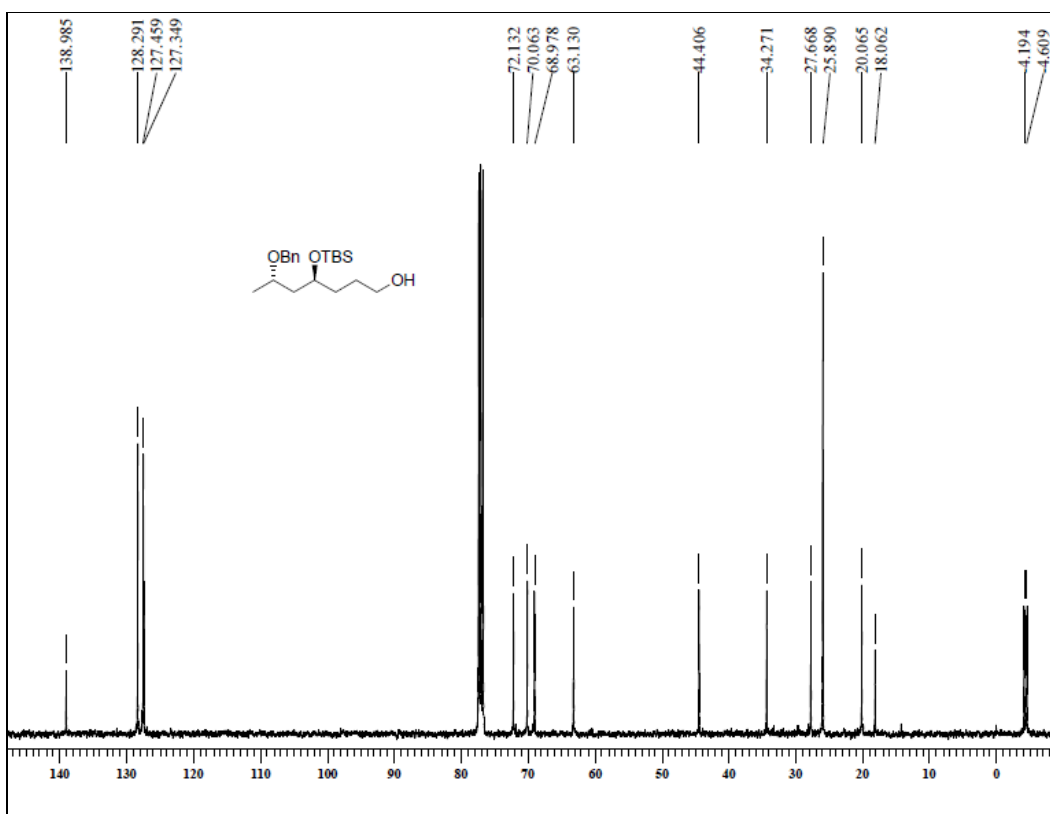
¹H NMR Spectrum of Compound **3**¹³C NMR Spectrum of Compound **3**

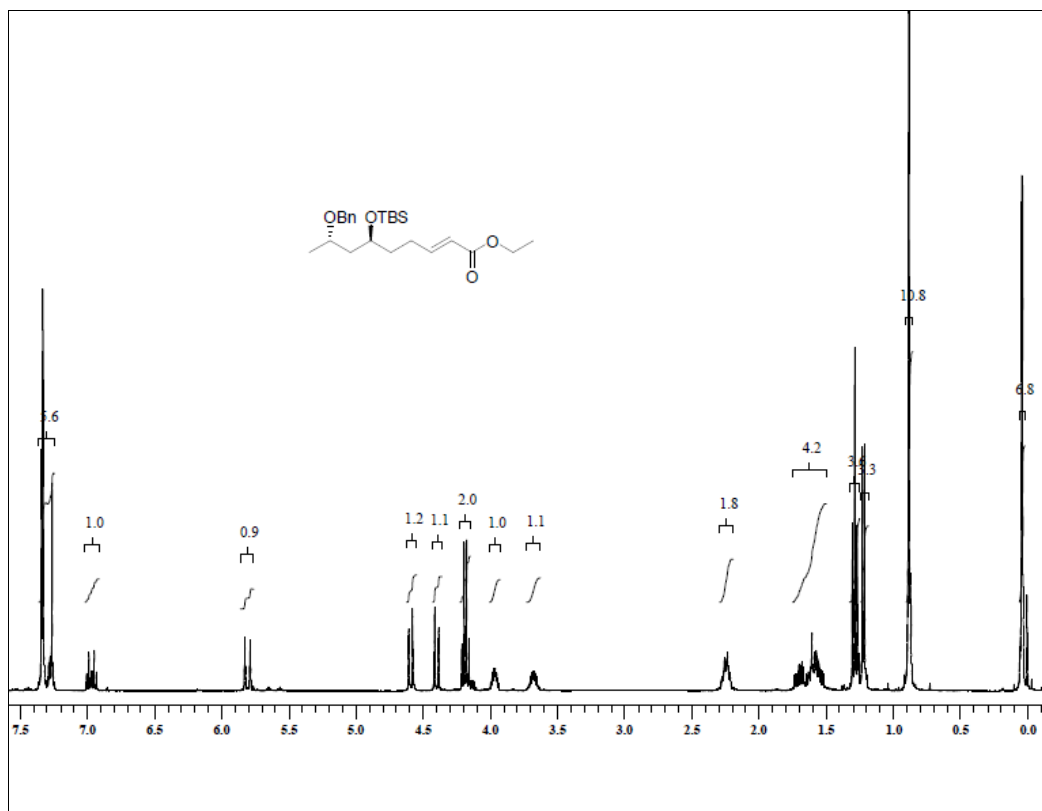
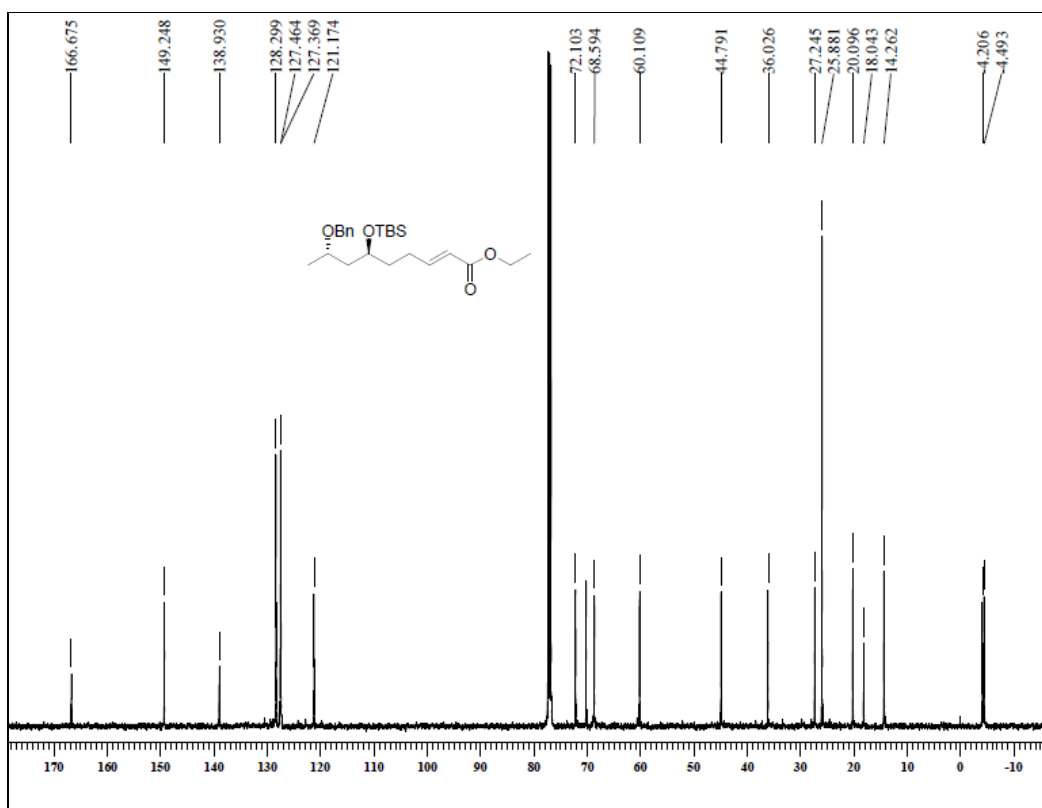
¹H NMR Spectrum of Compound **4**¹³C NMR Spectrum of Compound **4**

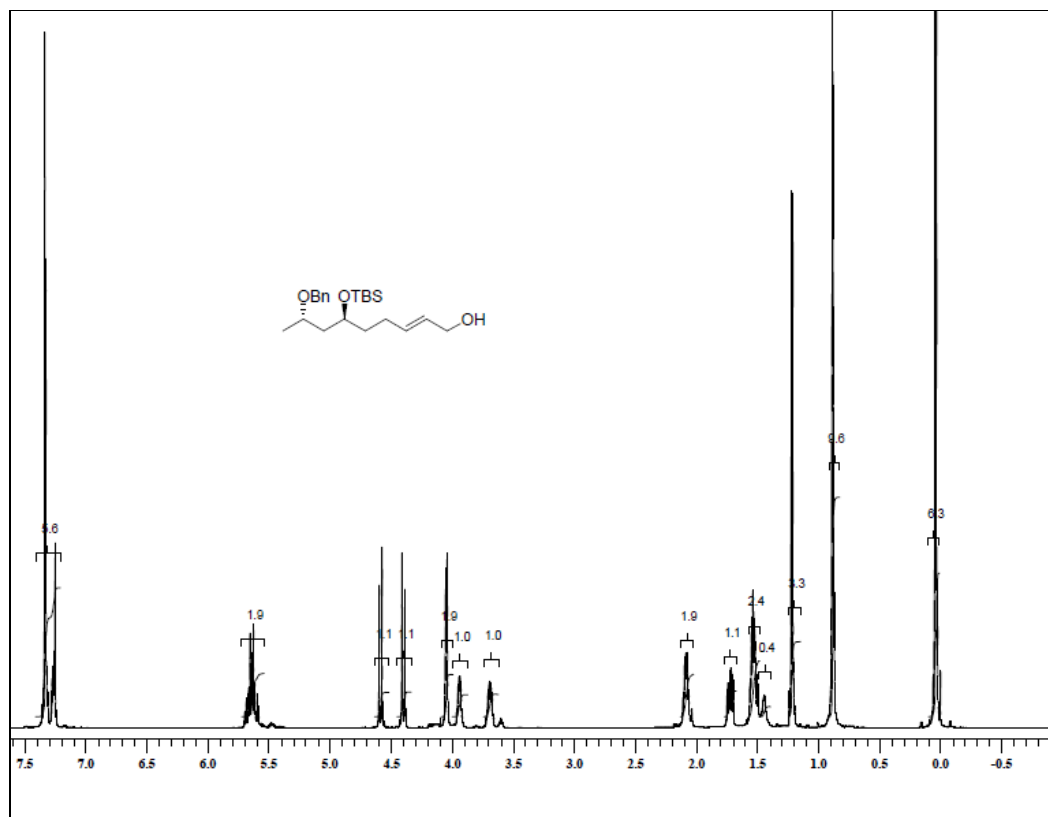
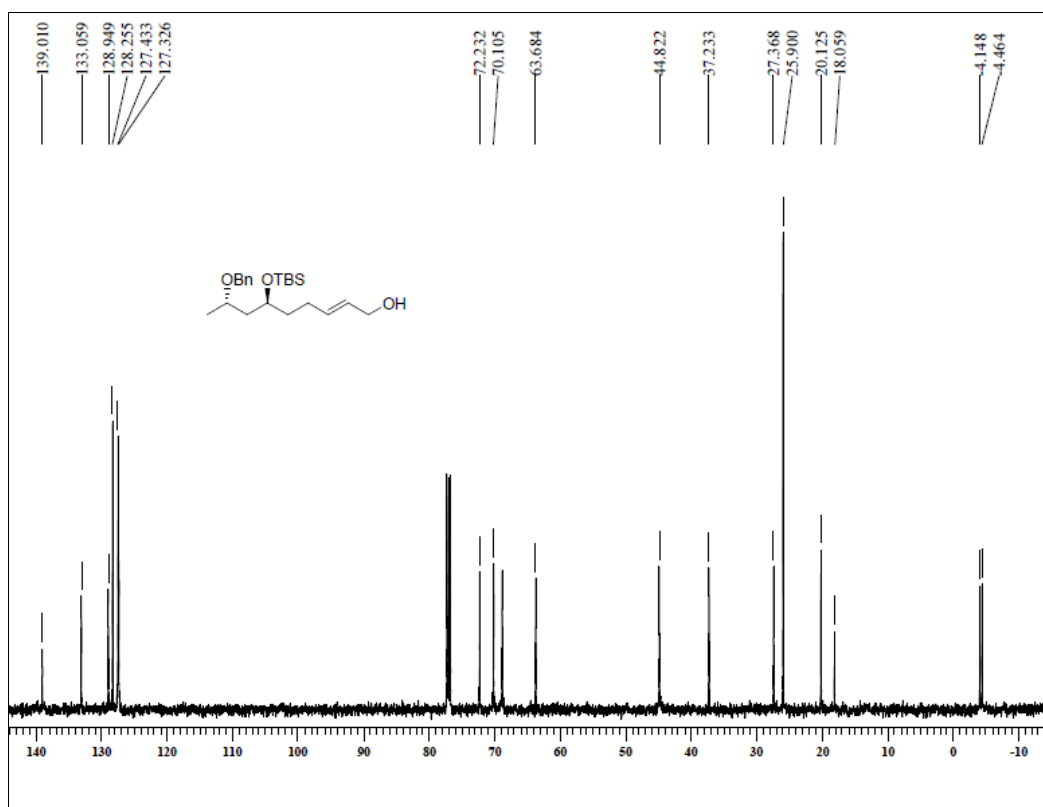
^1H NMR Spectrum of Compound **6** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **6** (100 MHz, CDCl_3)

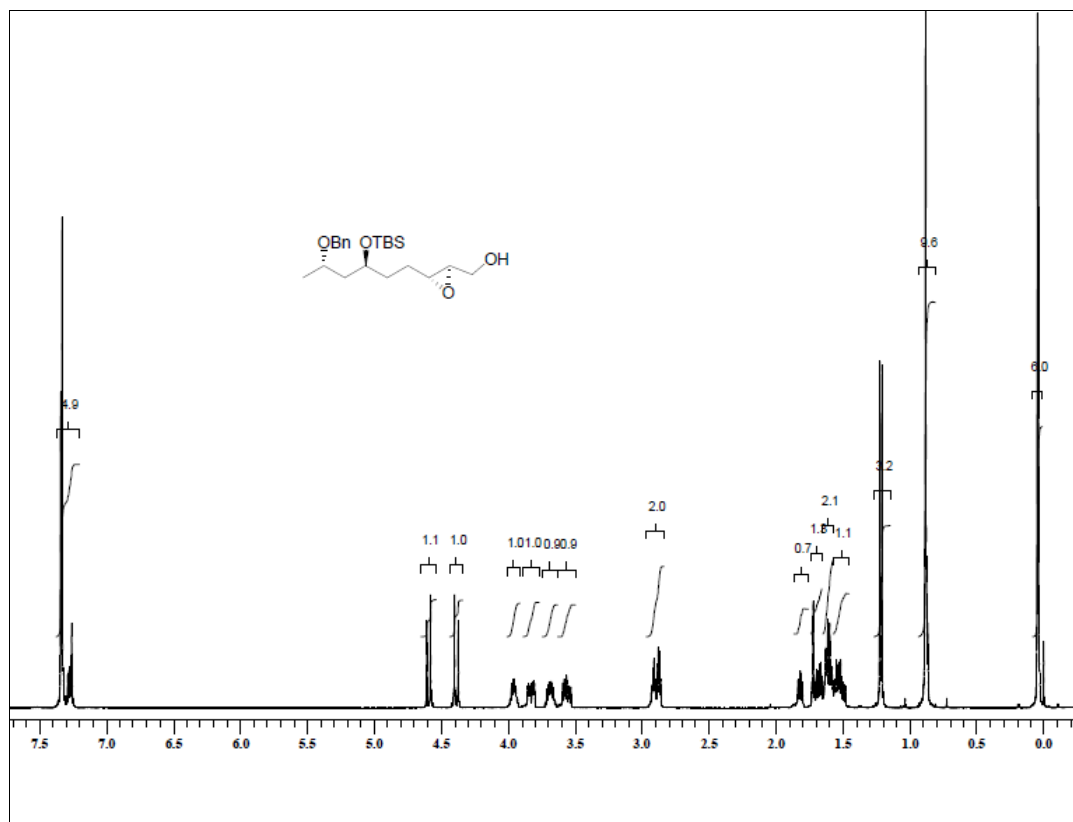
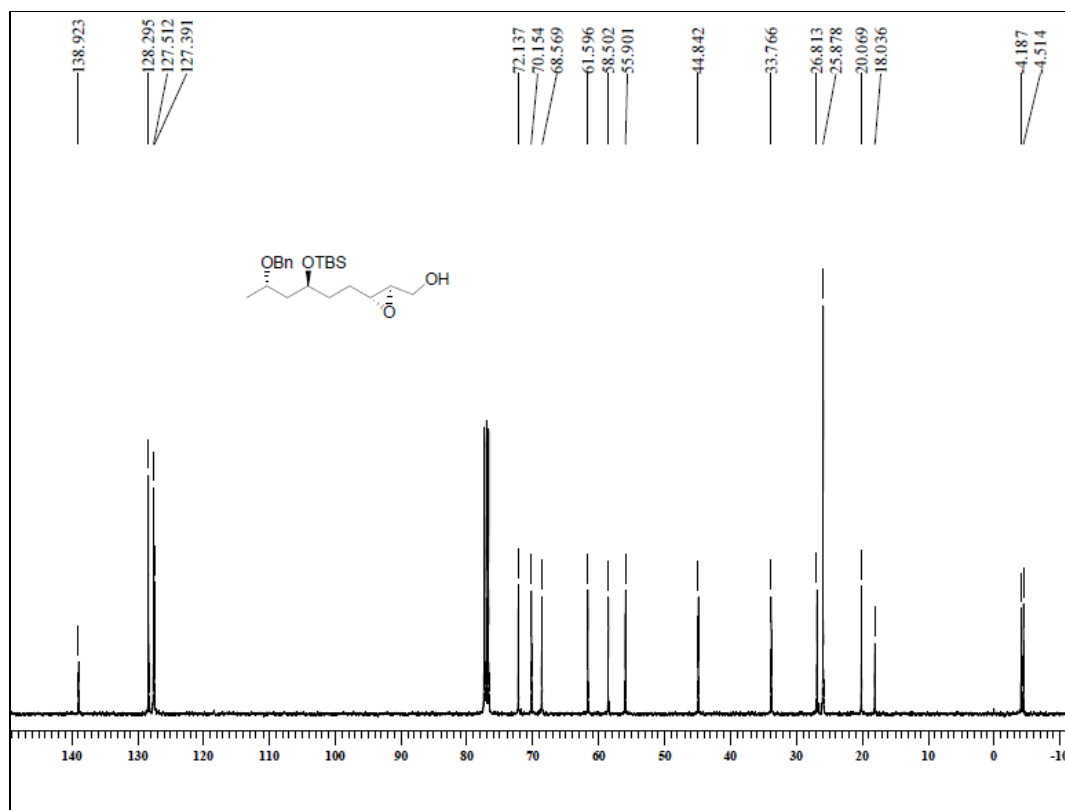
^{13}C NMR Spectrum of **(4S,6S)**-4-allyl-2,2,6-trimethyl-1,3-dioxane (100 MHz, CDCl_3)

^1H NMR Spectrum of Compound **7** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **7** (100 MHz, CDCl_3)

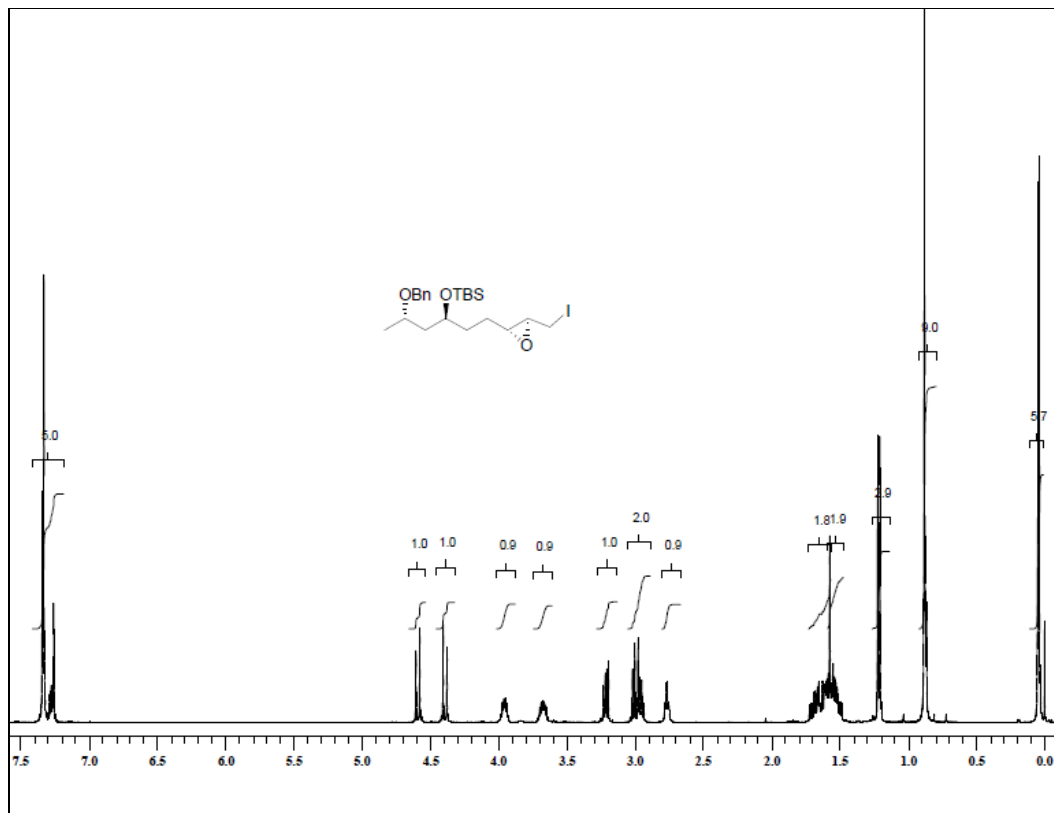
^1H NMR Spectrum of Compound **8** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **8** (100 MHz, CDCl_3)

^1H NMR Spectrum of Compound **10** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **10** (100 MHz, CDCl_3)

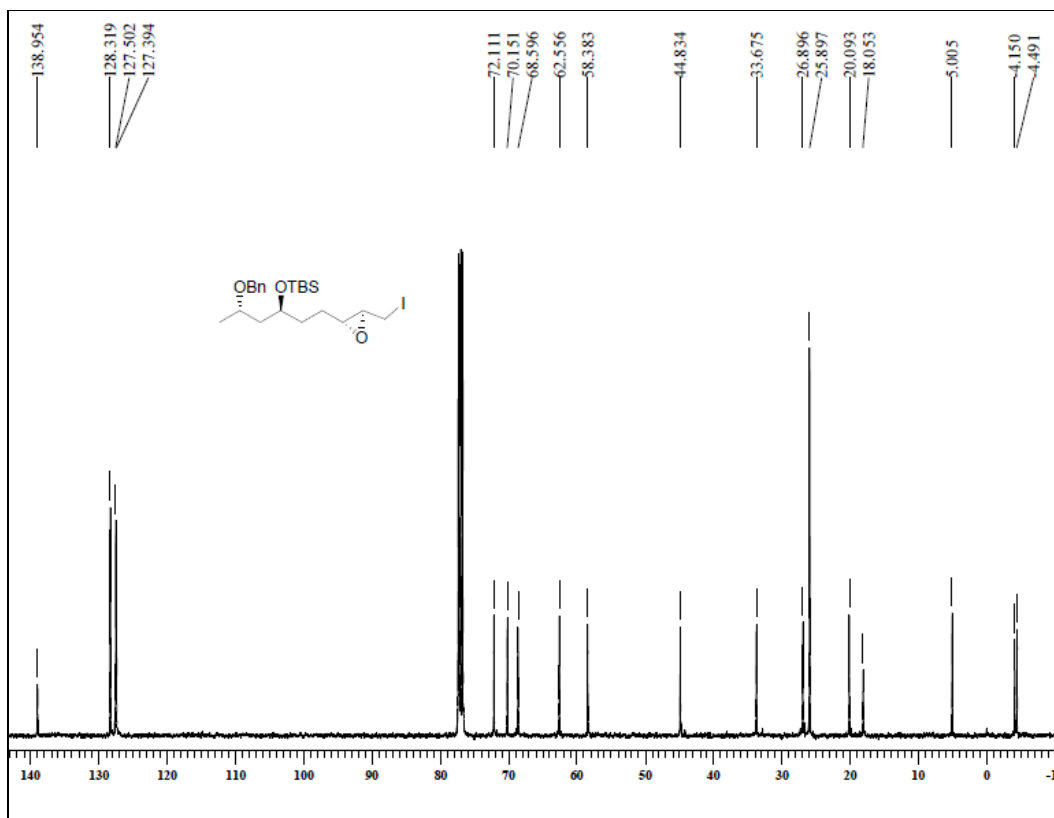
^1H NMR Spectrum of Compound **11** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **11** (100 MHz, CDCl_3)

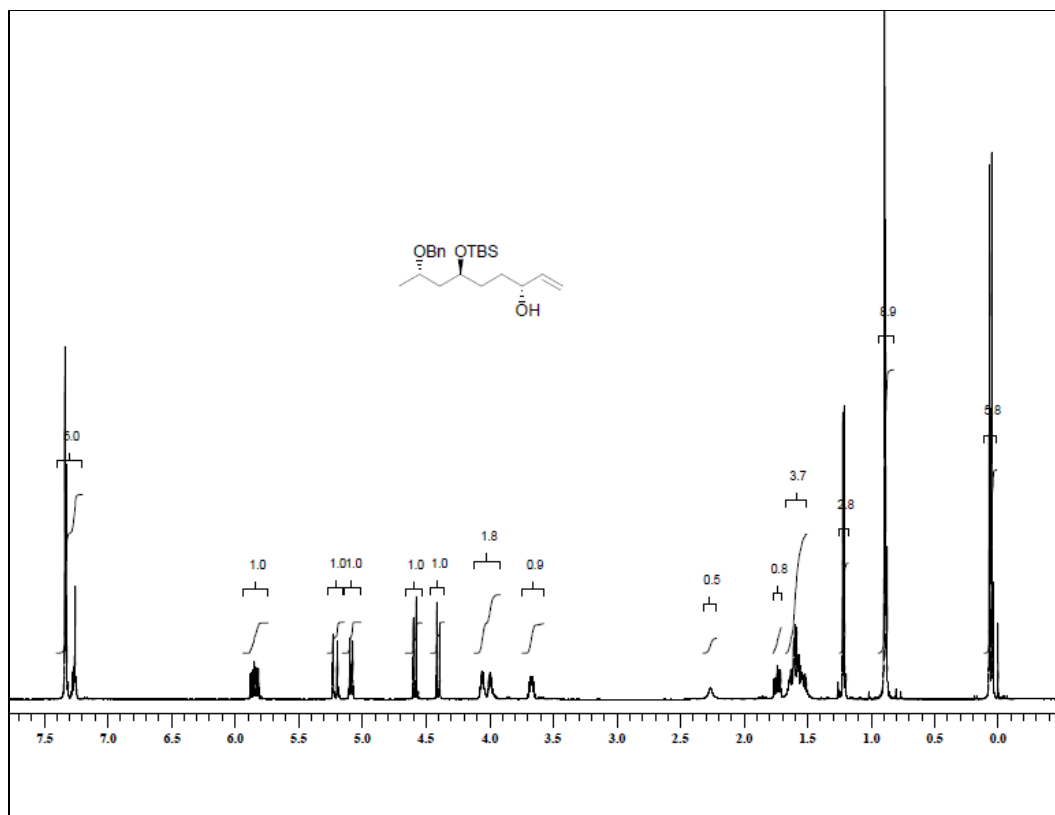
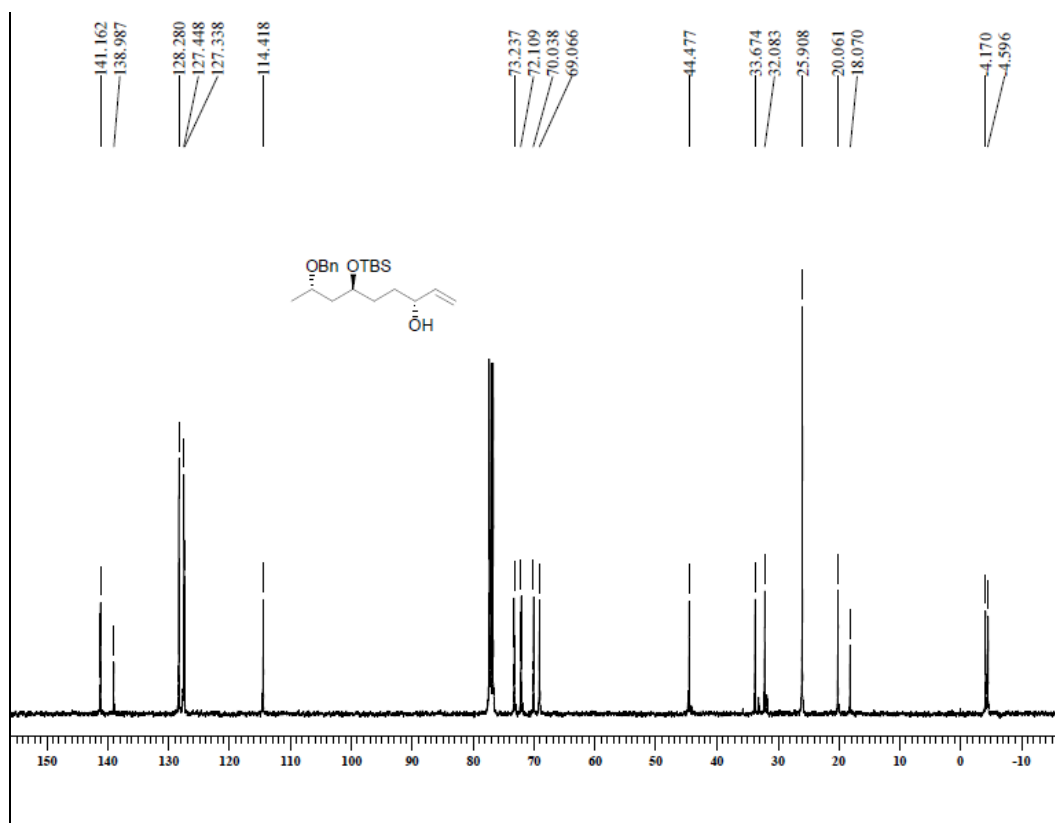
^1H NMR Spectrum of Compound **12** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **12** (100 MHz, CDCl_3)

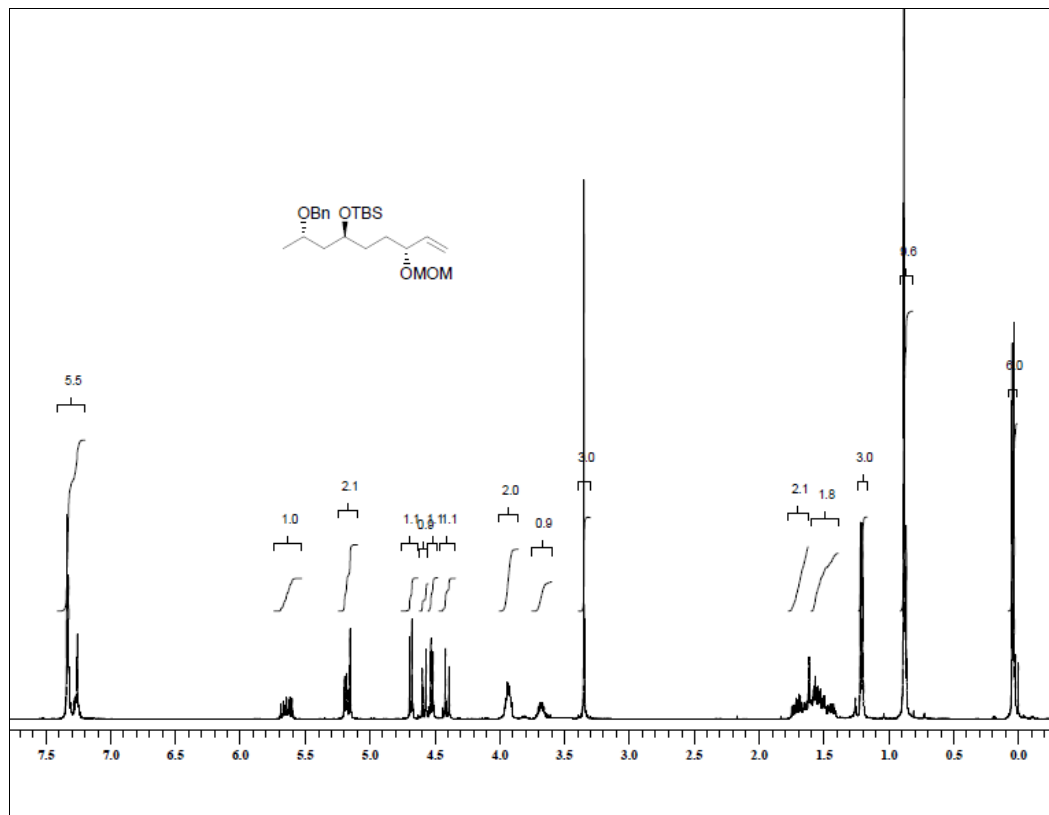
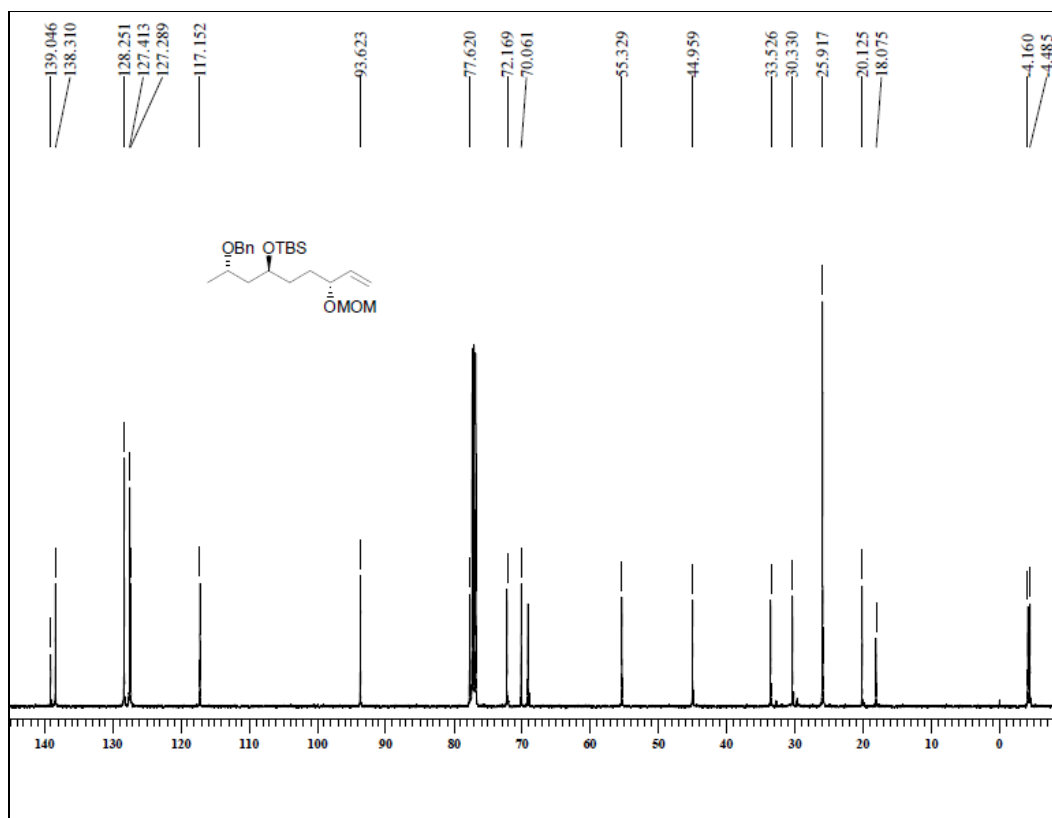
¹H NMR Spectrum of Compound **13** (400 MHz, CDCl₃)

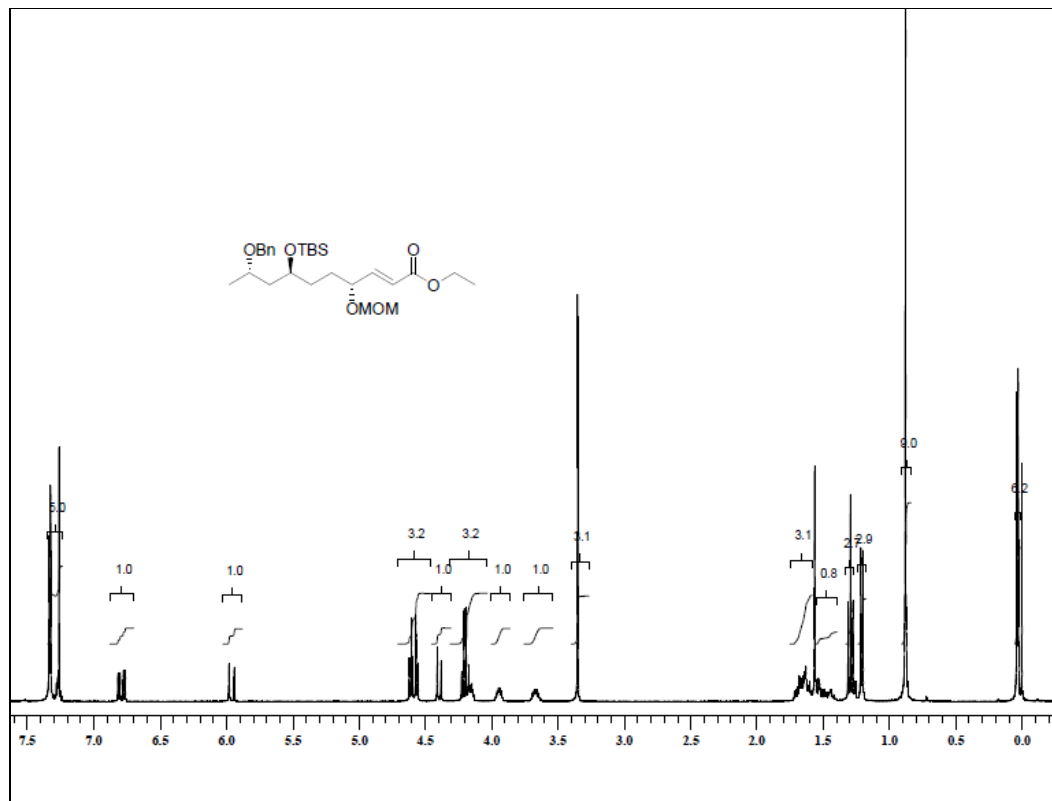
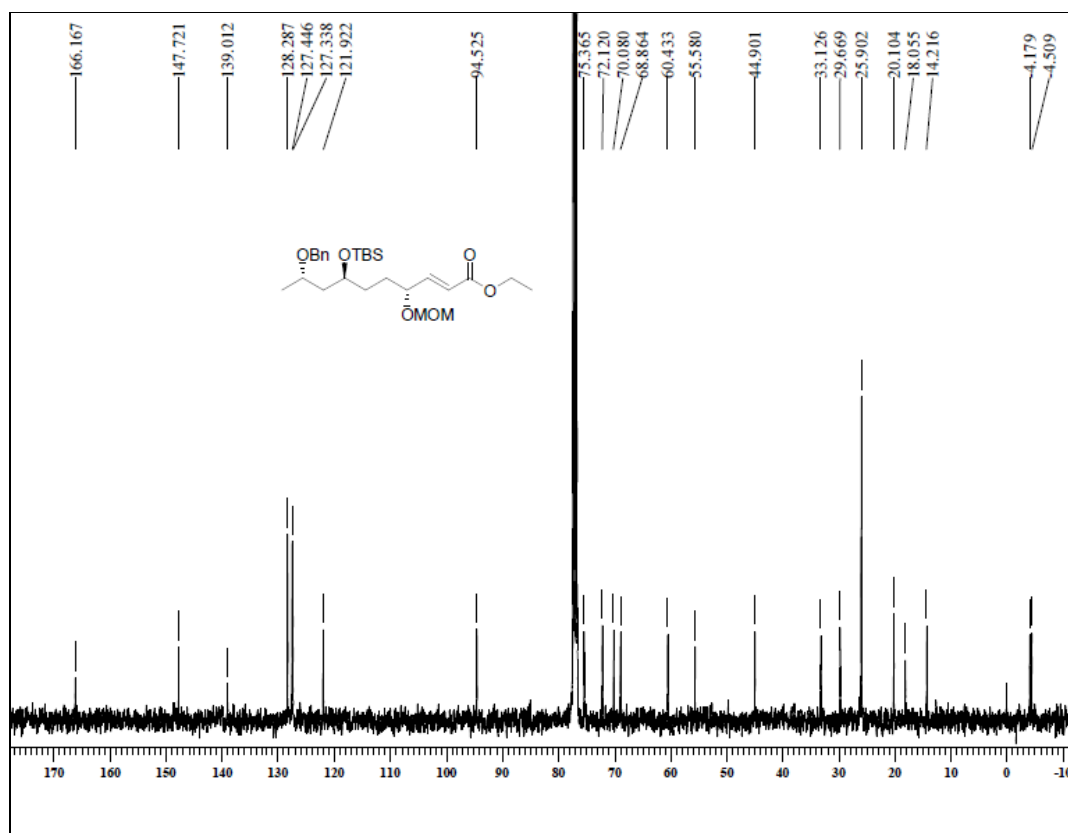


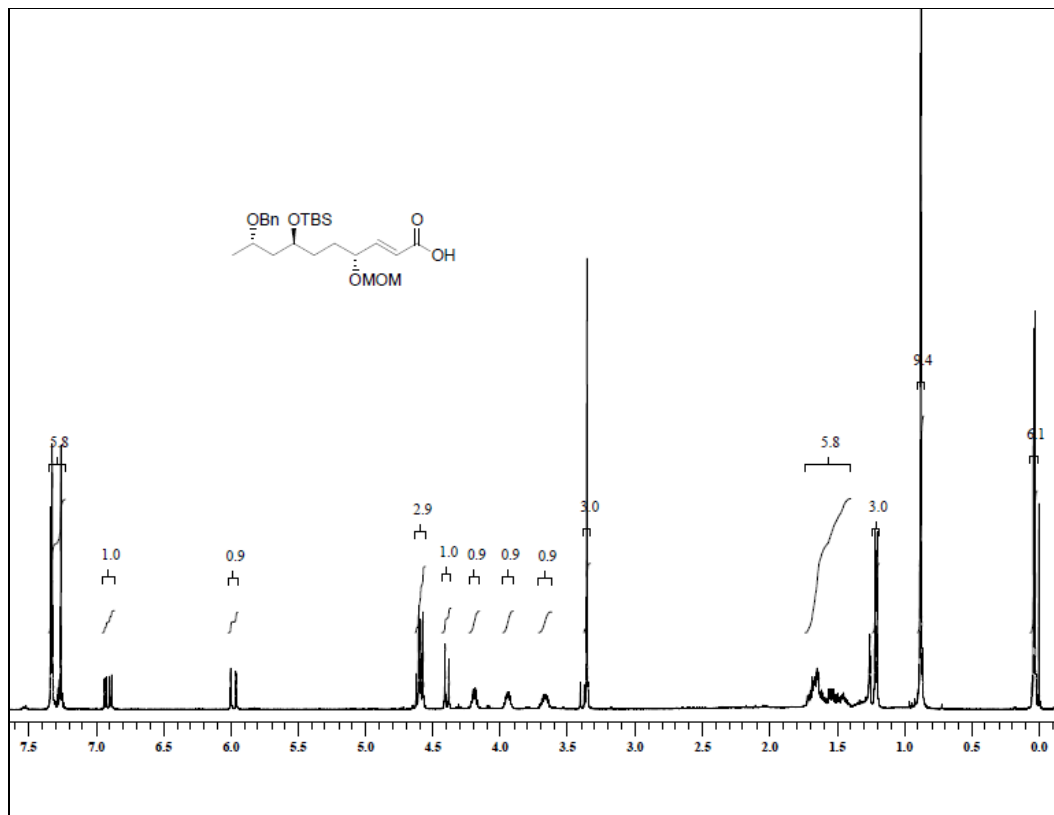
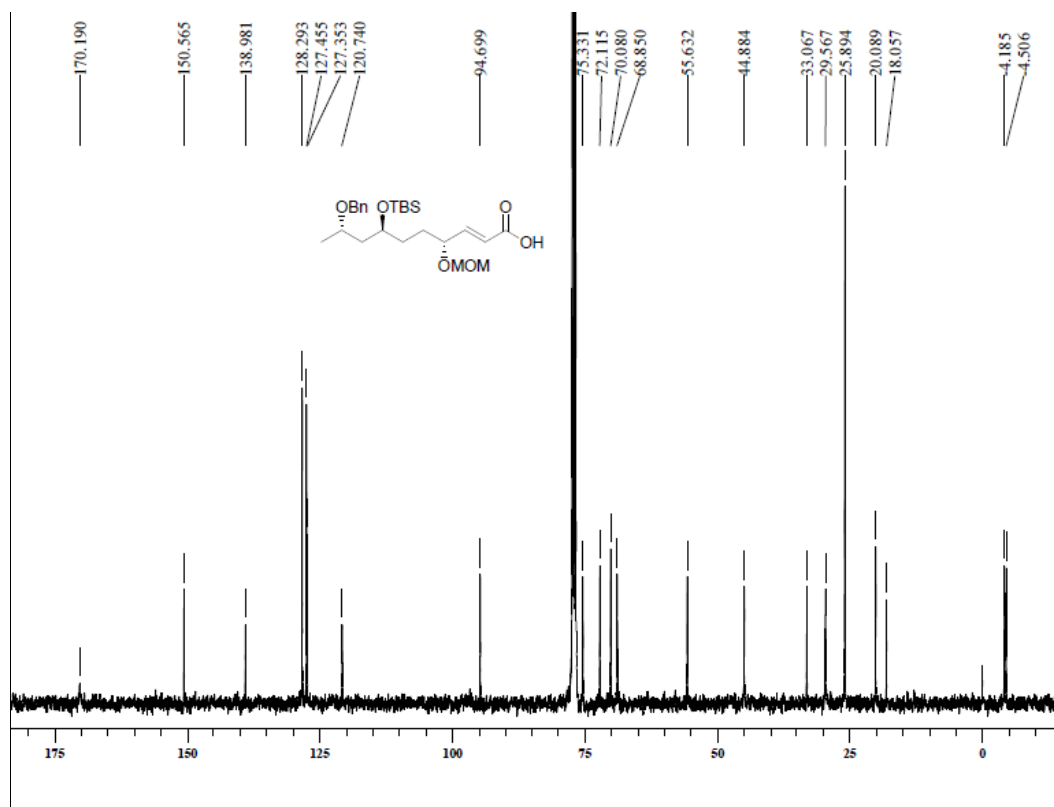
¹³C NMR Spectrum of Compound **13** (100 MHz, CDCl₃)

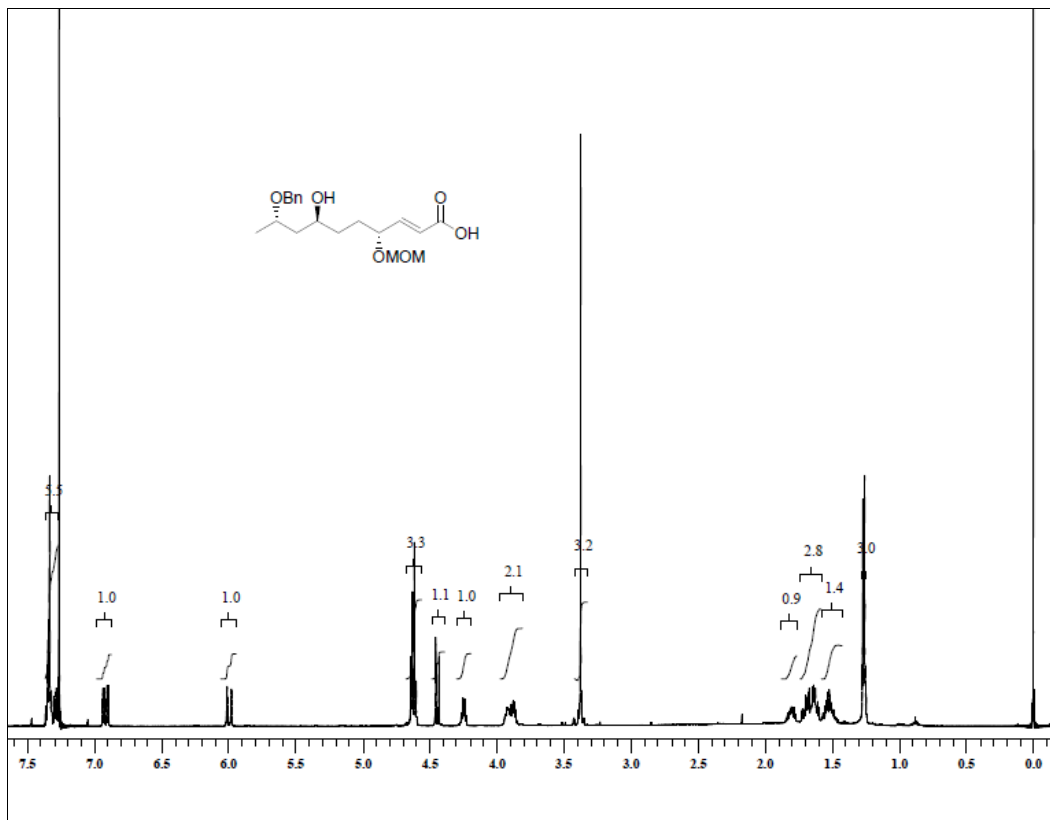
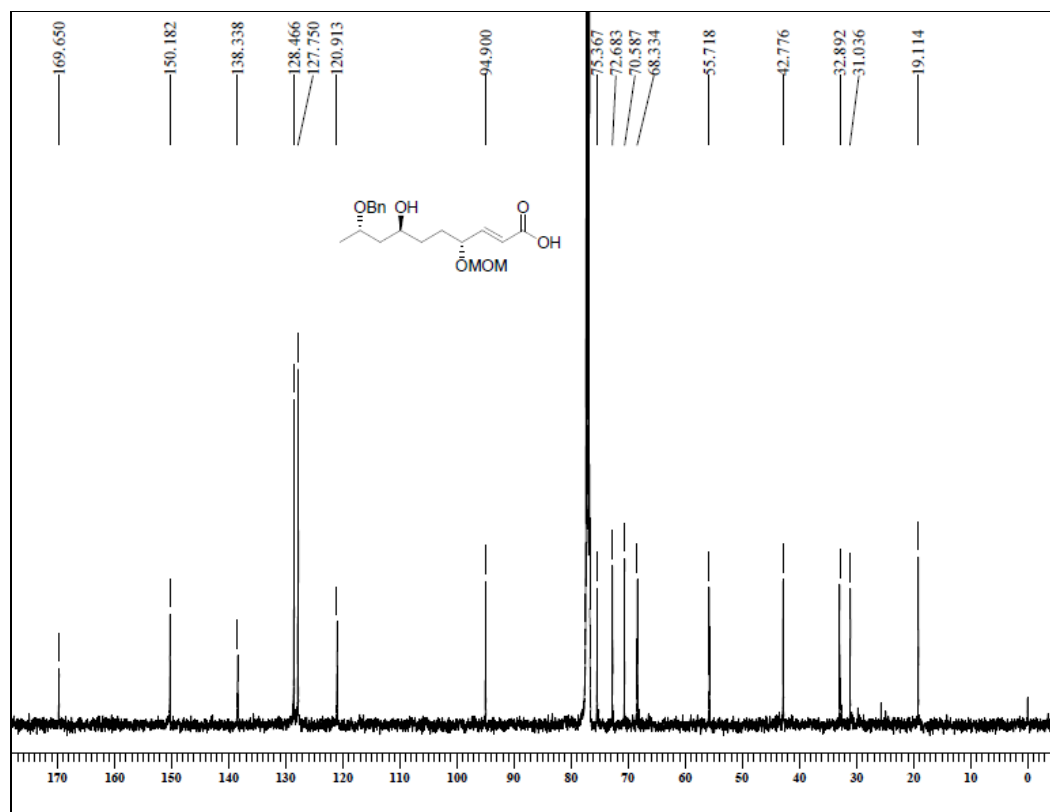


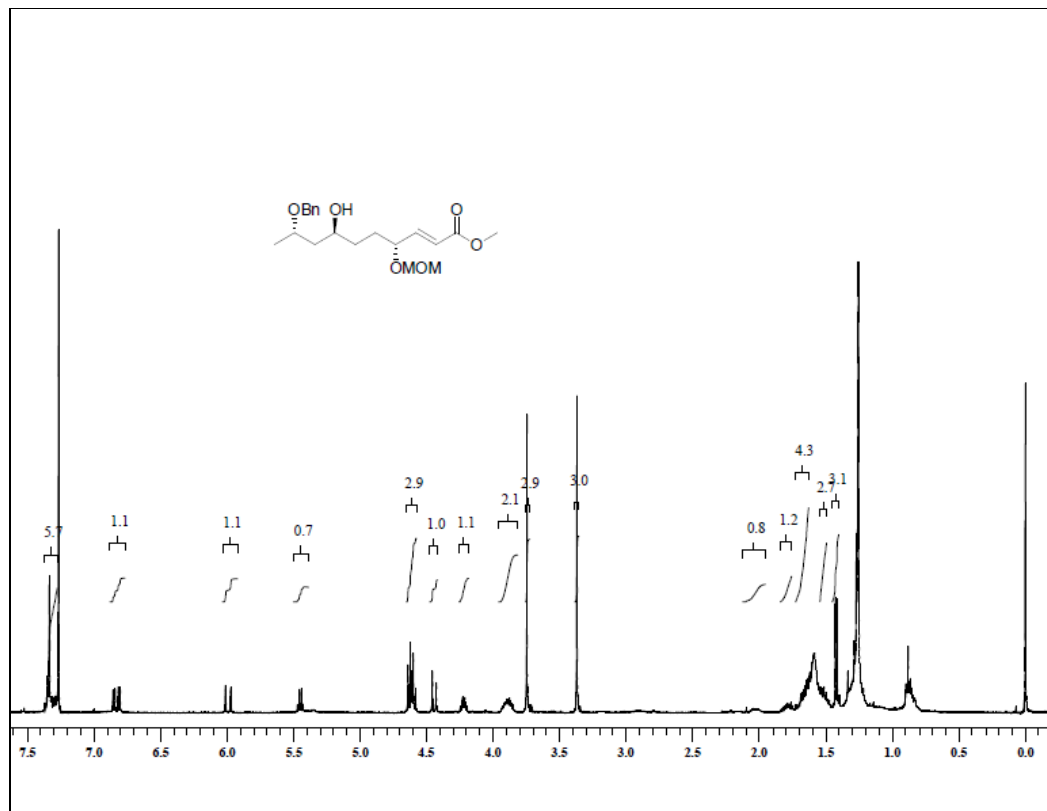
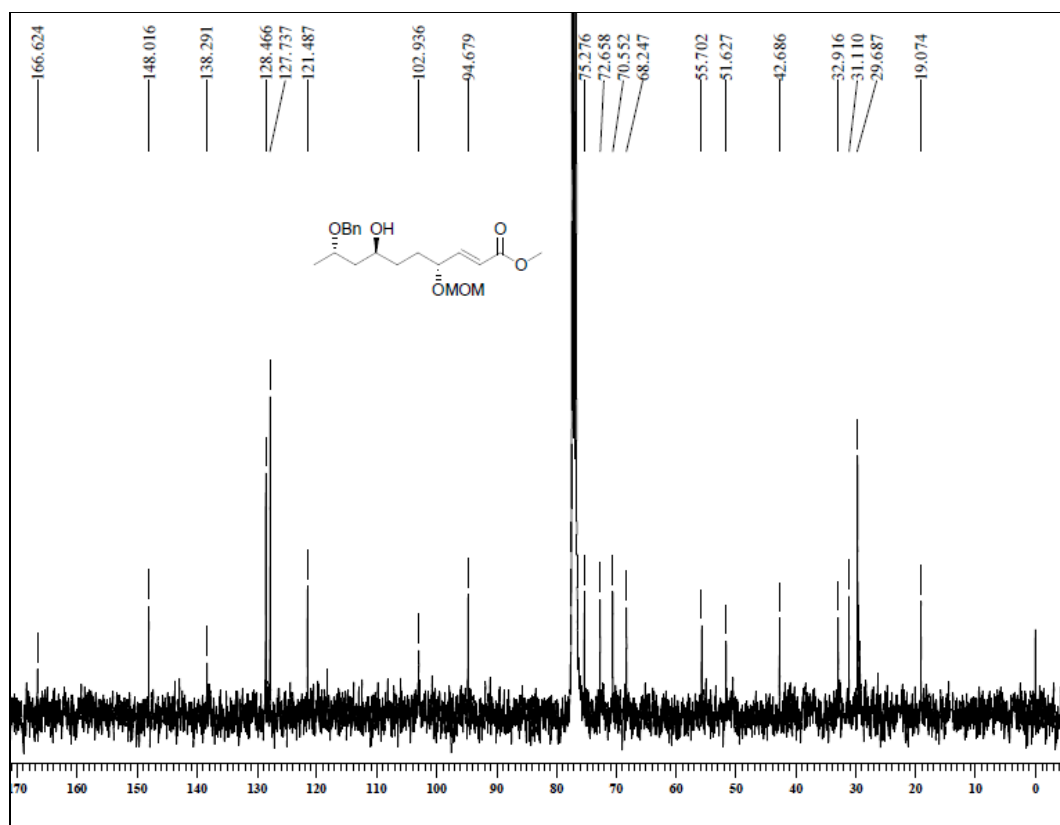
^1H NMR Spectrum of Compound **14** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **14** (100 MHz, CDCl_3)

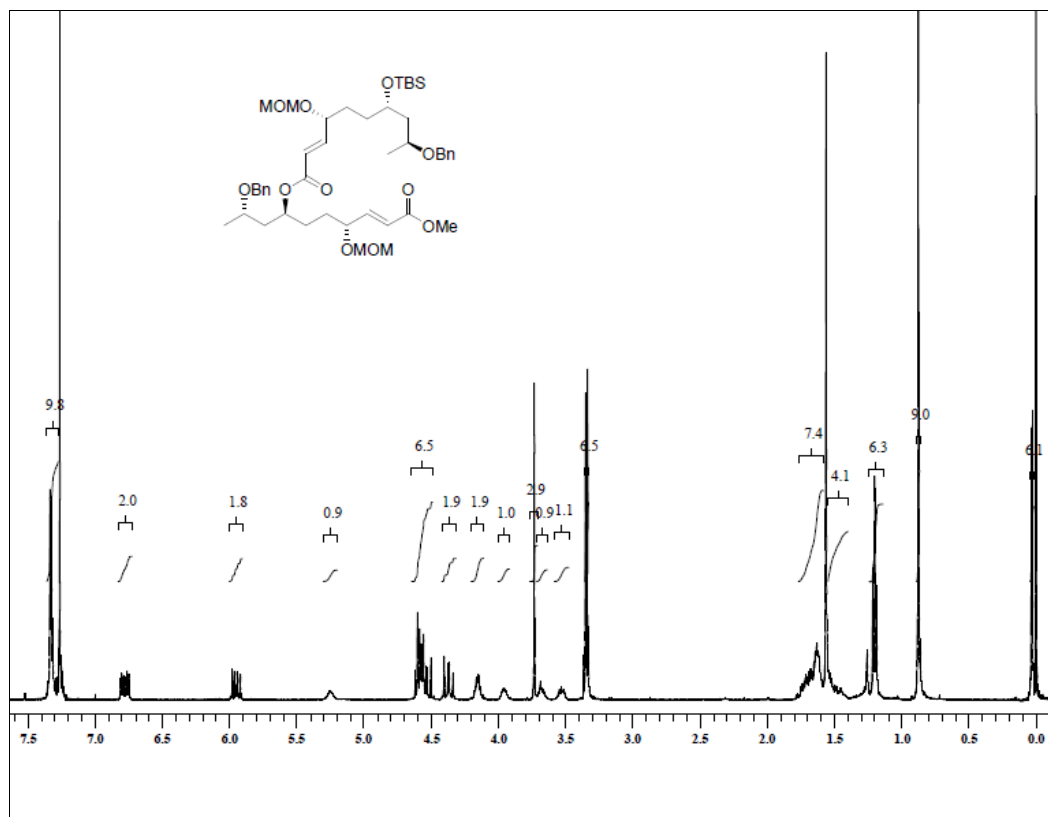
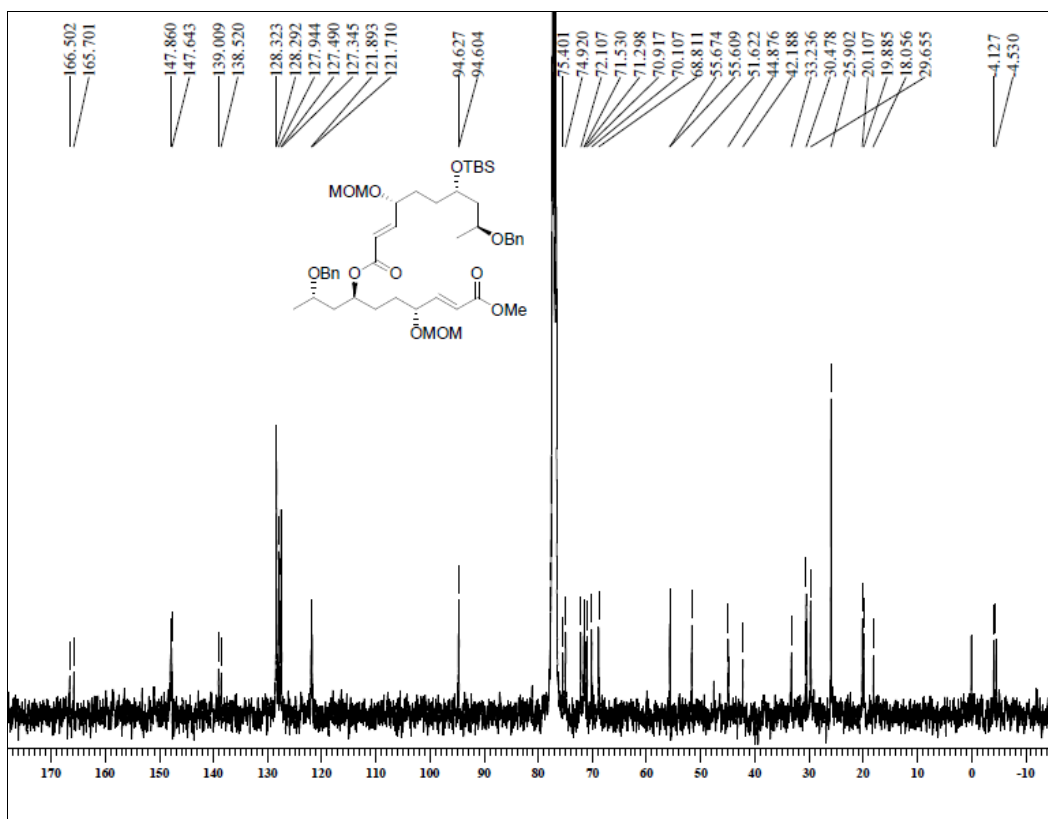
^1H NMR Spectrum of Compound **15** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **15** (100 MHz, CDCl_3)

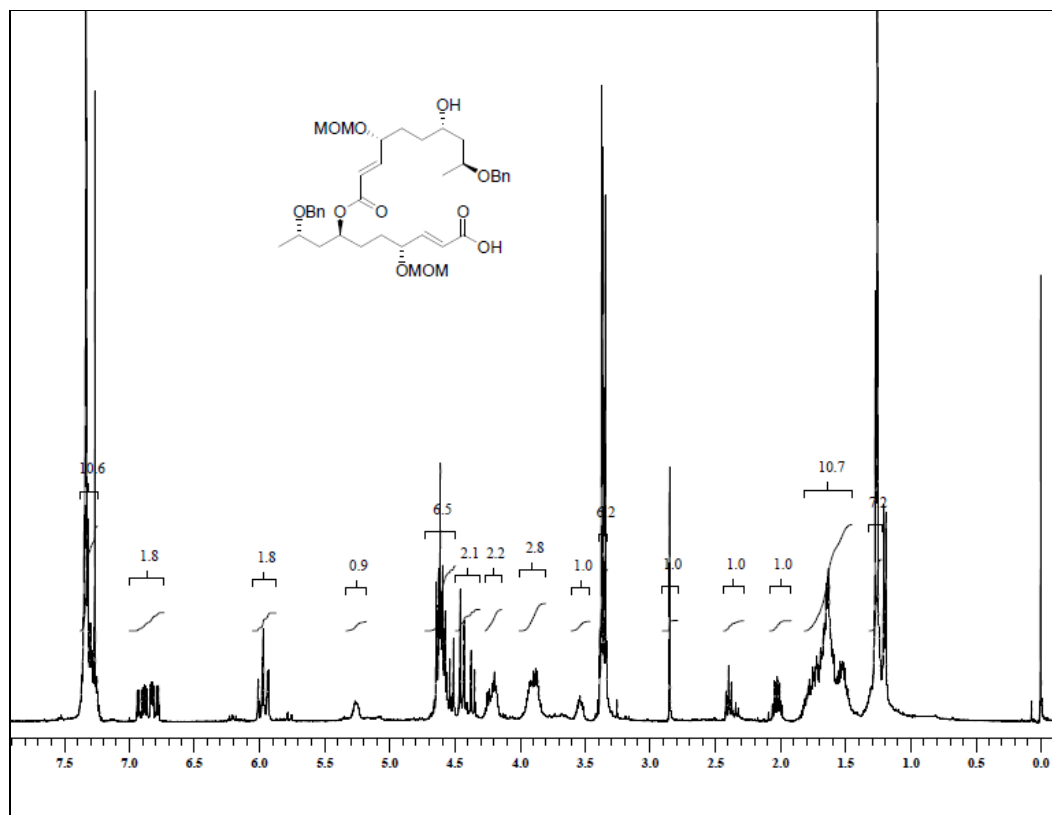
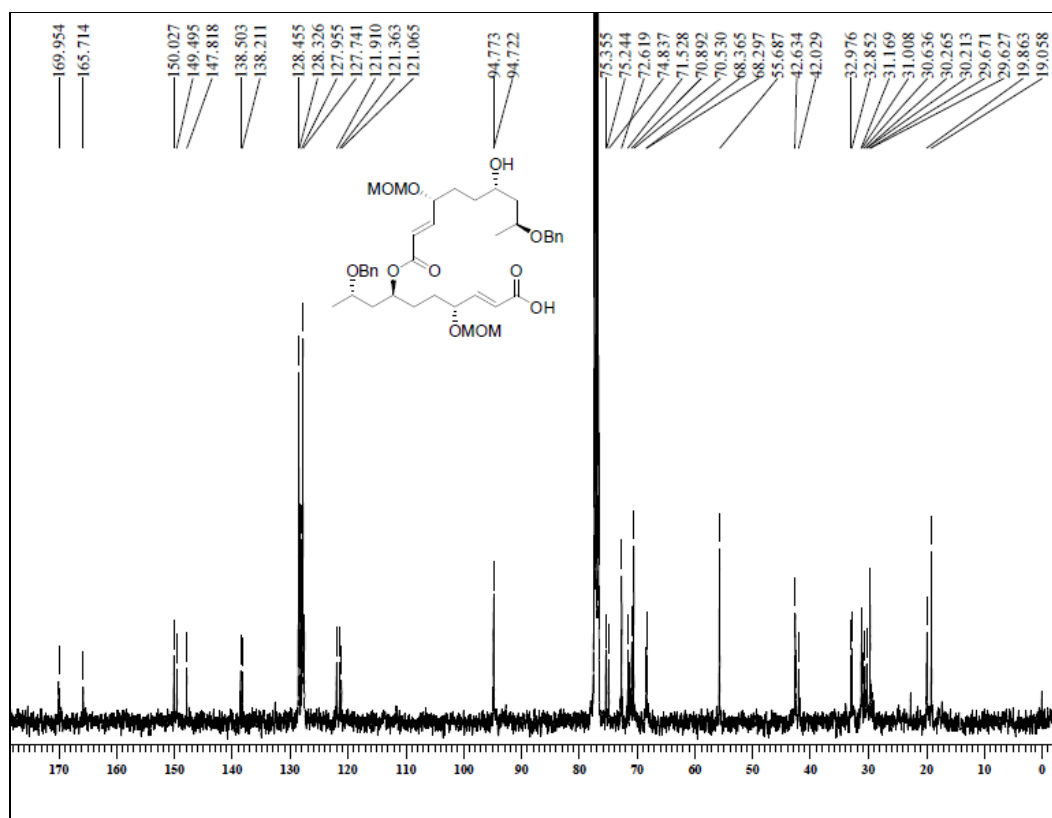
^1H NMR Spectrum of Compound **16** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **16** (100 MHz, CDCl_3)

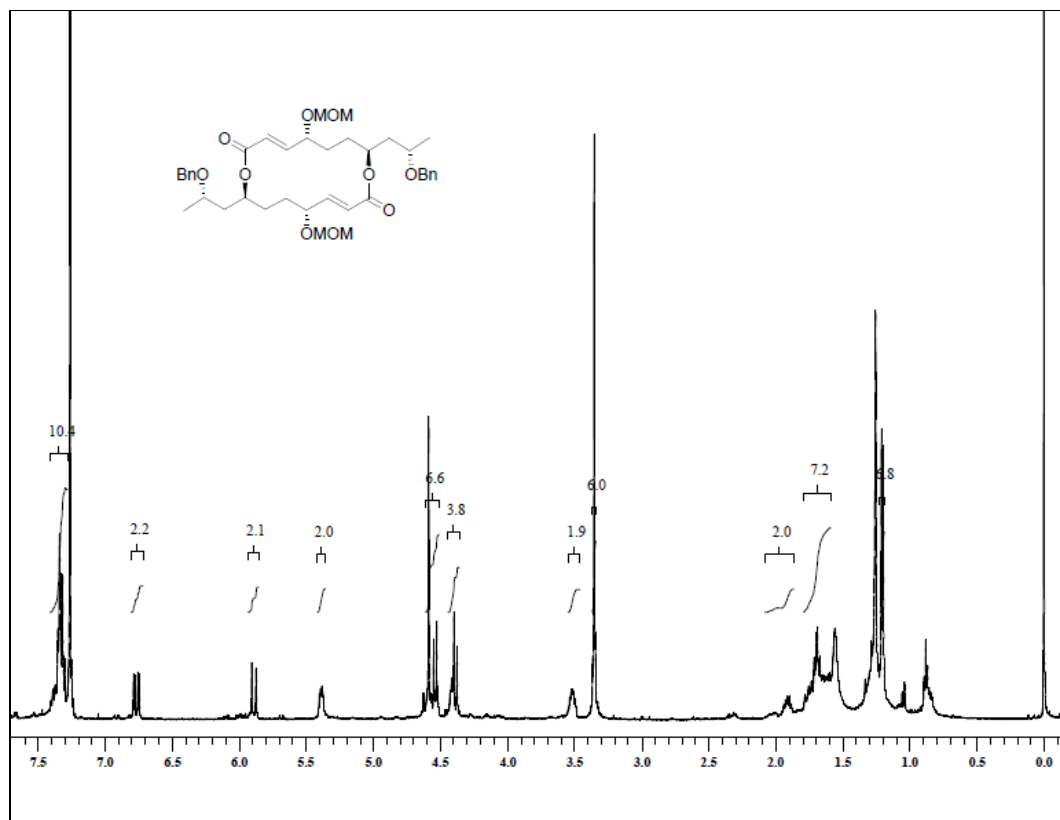
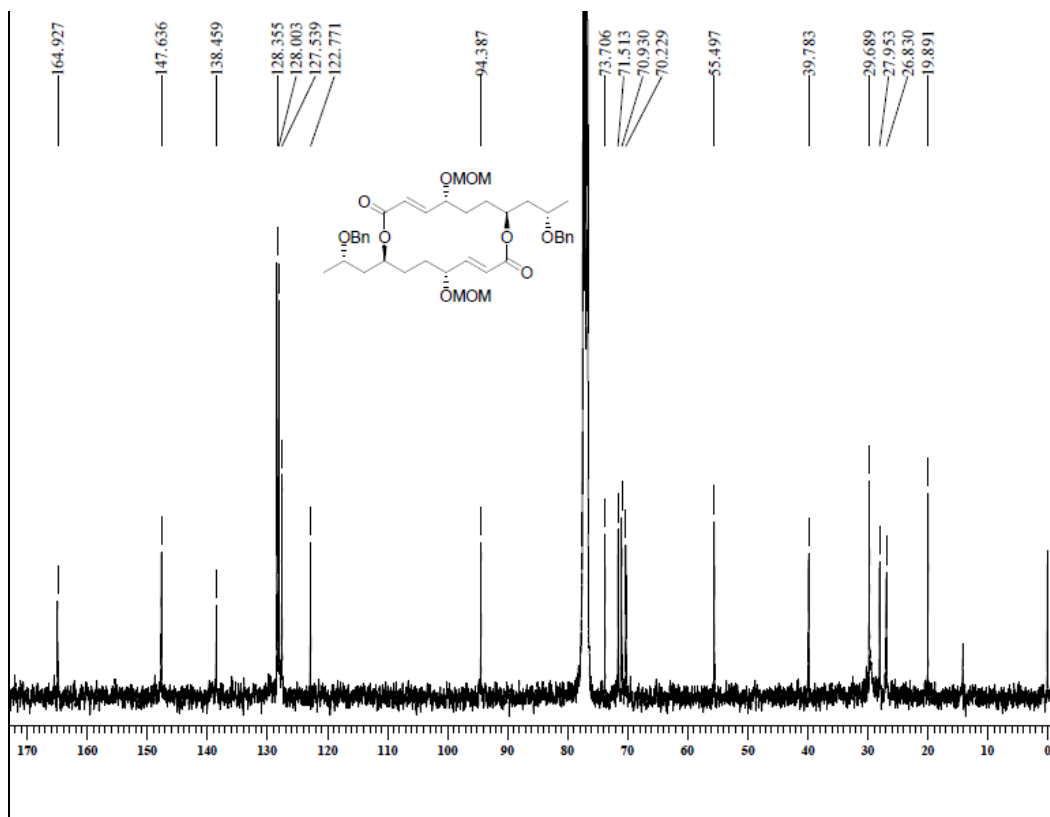
^1H NMR Spectrum of Compound **17** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **17** (100 MHz, CDCl_3)

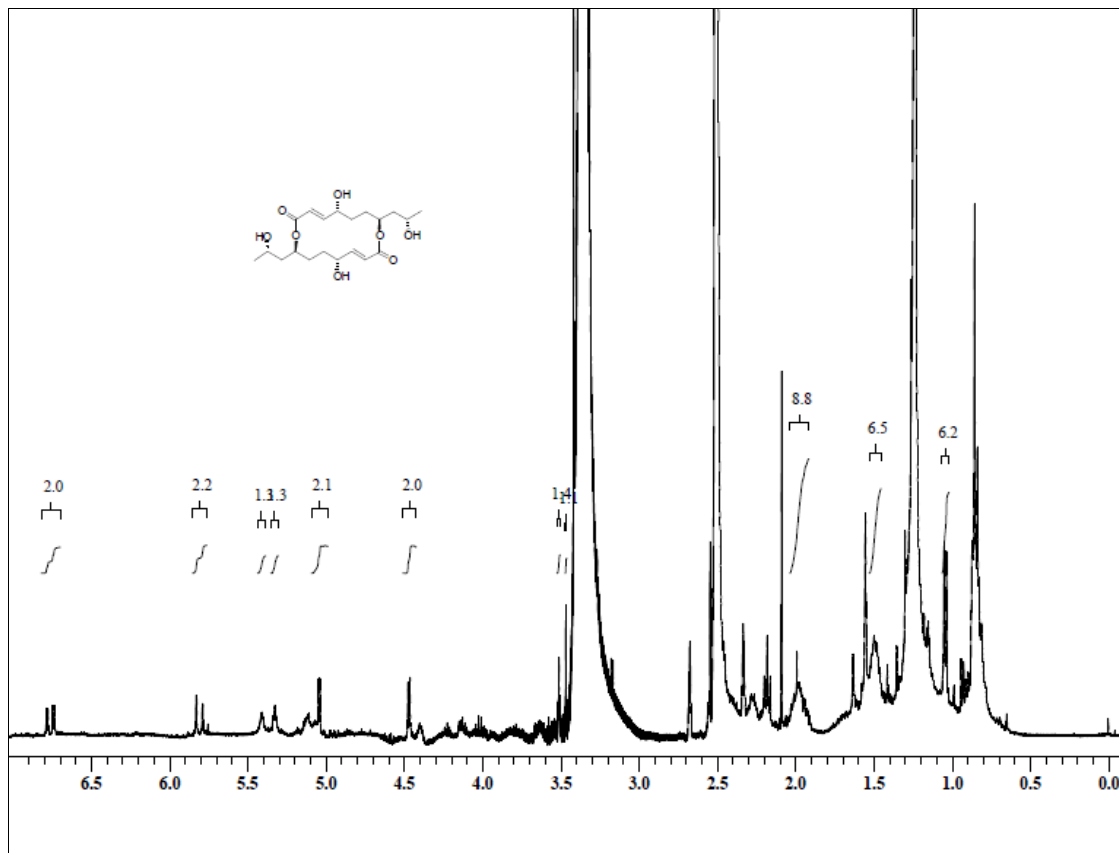
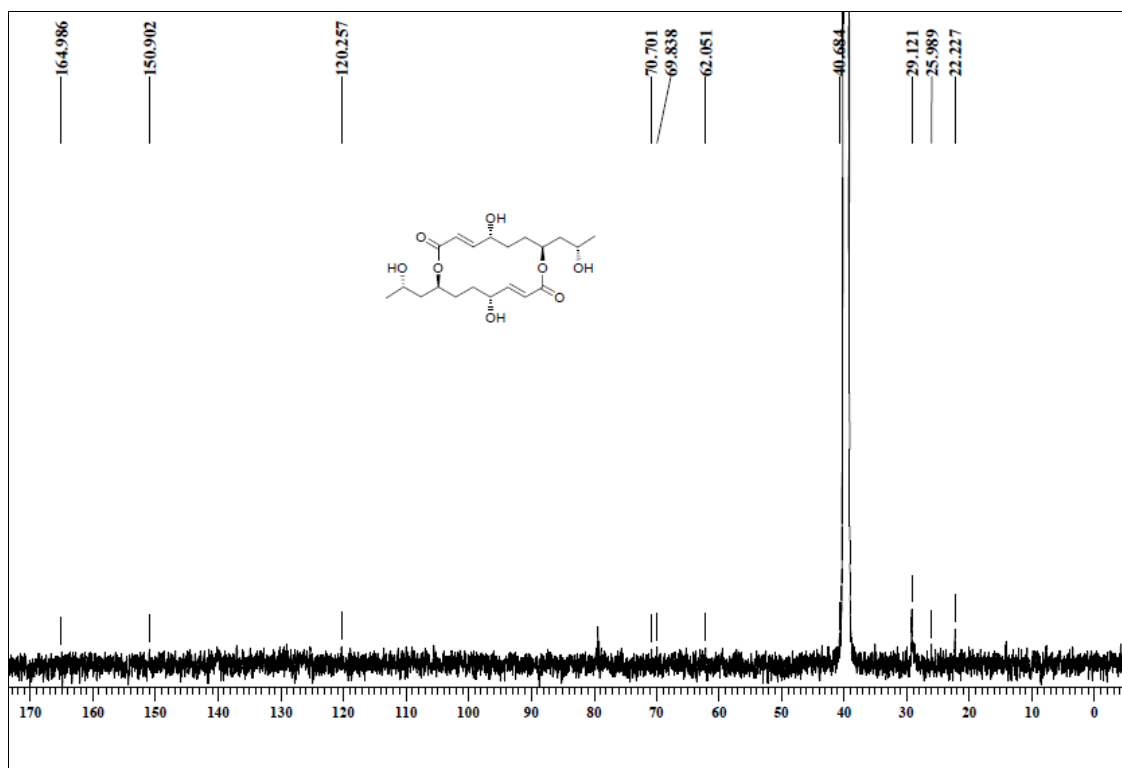
^1H NMR Spectrum of Compound **18** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **18** (100 MHz, CDCl_3)

^1H NMR Spectrum of Compound **19** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **19** (100 MHz, CDCl_3)

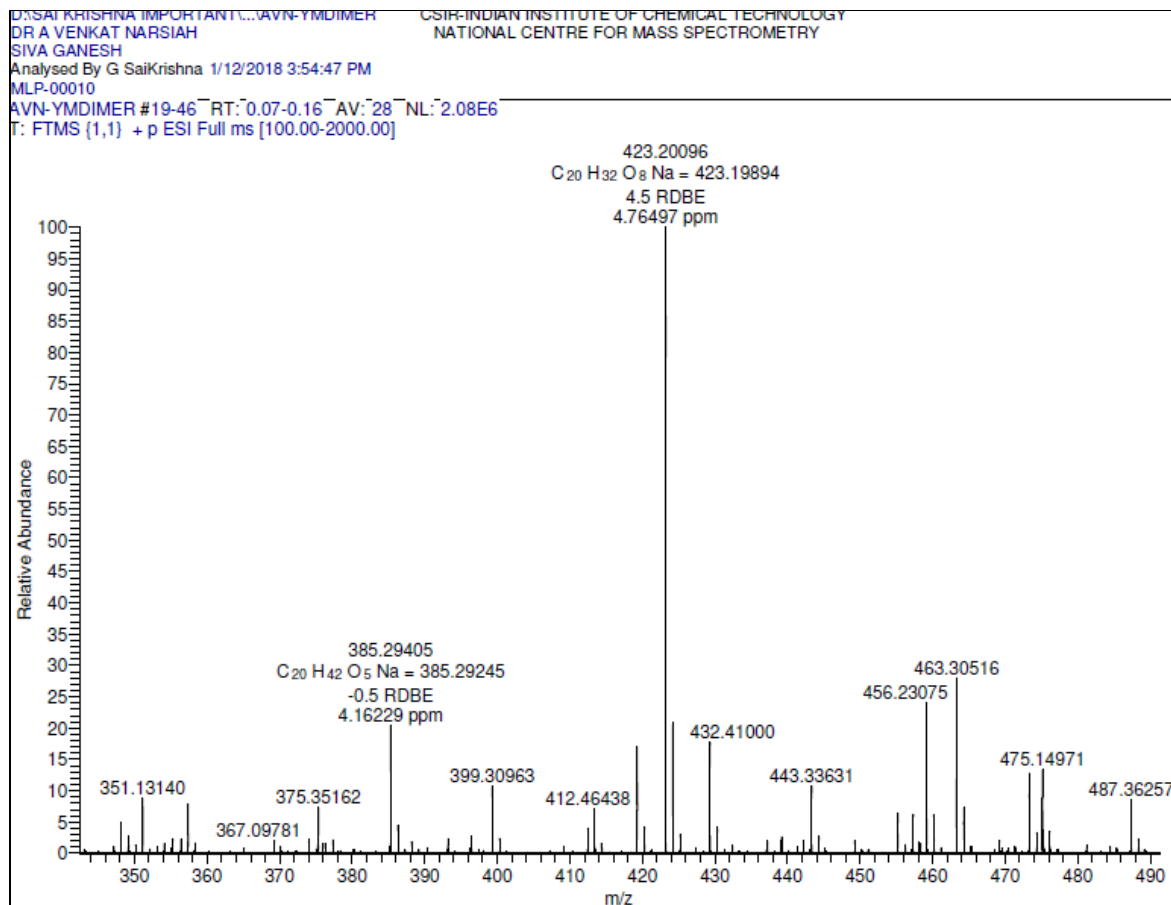
^1H NMR Spectrum of Compound **20** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **20** (100 MHz, CDCl_3)

^1H NMR Spectrum of Compound **21** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **21** (100 MHz, CDCl_3)

^1H NMR Spectrum of Compound **22** (400 MHz, CDCl_3) ^{13}C NMR Spectrum of Compound **22** (100 MHz, CDCl_3)

^1H NMR Spectrum of Compound **1** (500 MHz, $\text{DMSO}-d_6$) ^{13}C NMR Spectrum of Compound **1** (500 MHz, $\text{DMSO}-d_6$)

ESI-HRMS NMR Spectrum of Compound 1



ESI-MASS NMR Spectrum of Compound 1

