

Supplementary Information

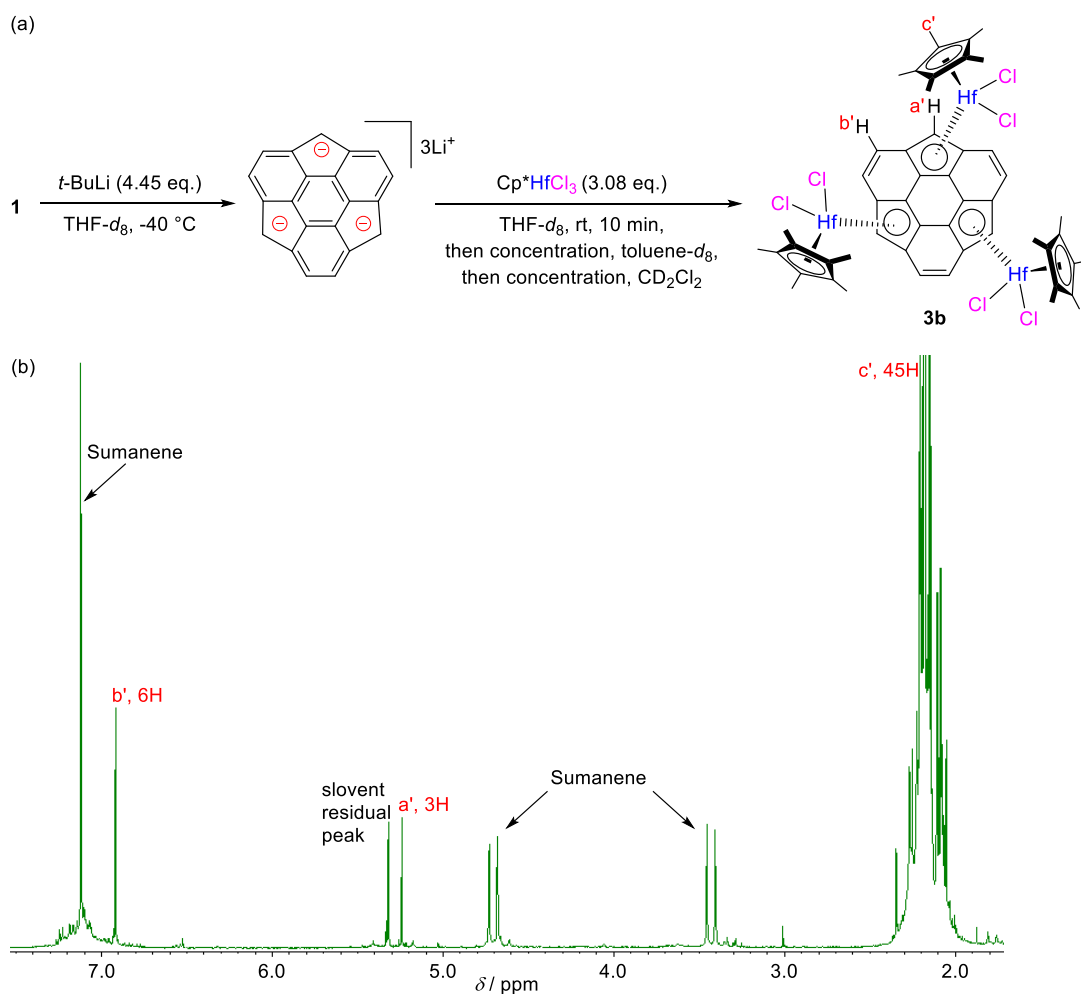
Synthesis of sumanenyl hafnocene complex

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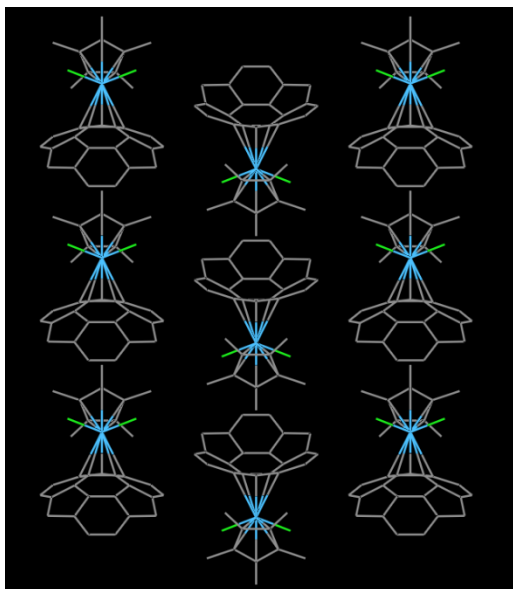
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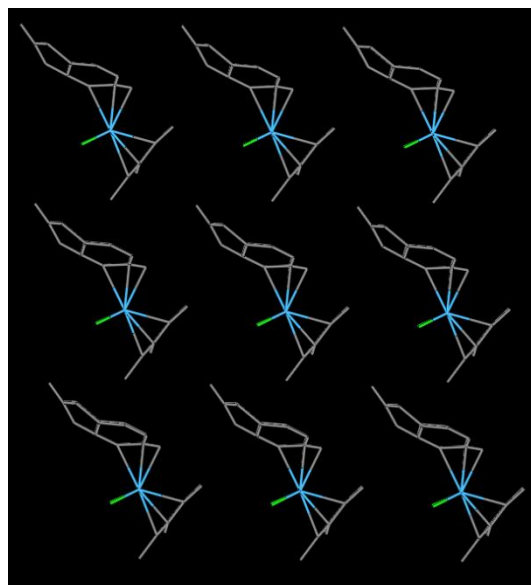
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Scheme S1. (a). Synthesis of **3b** and (b) its crude ^1H NMR spectrum (400 MHz, CD_2Cl_2).



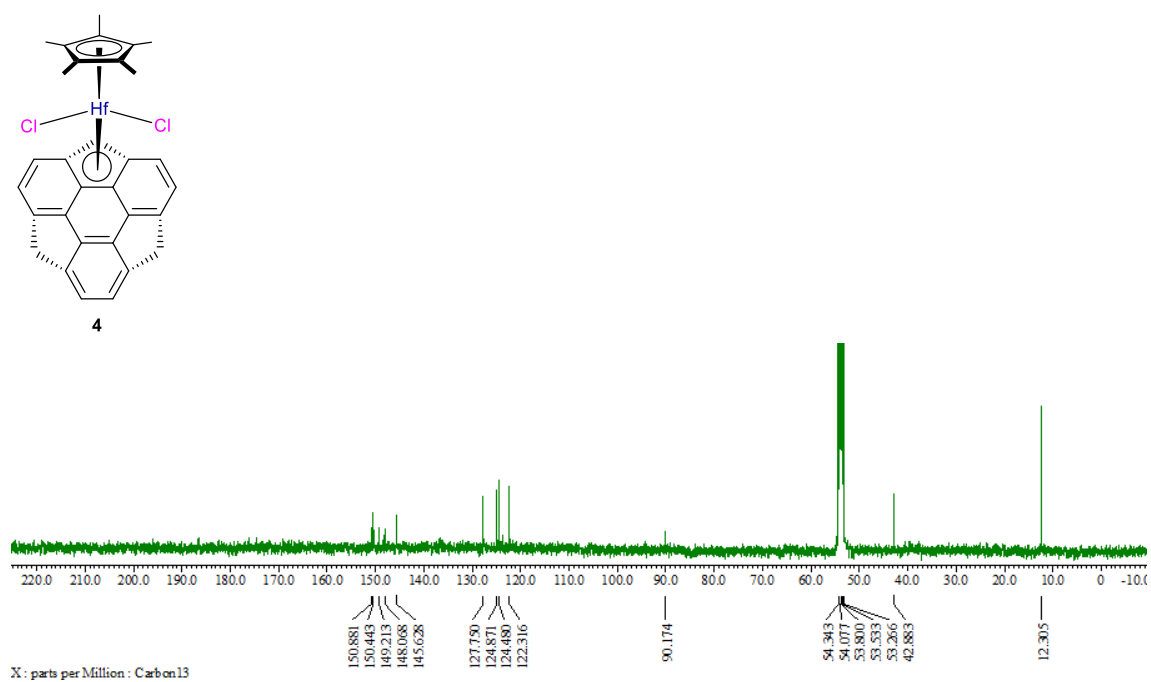
View 1



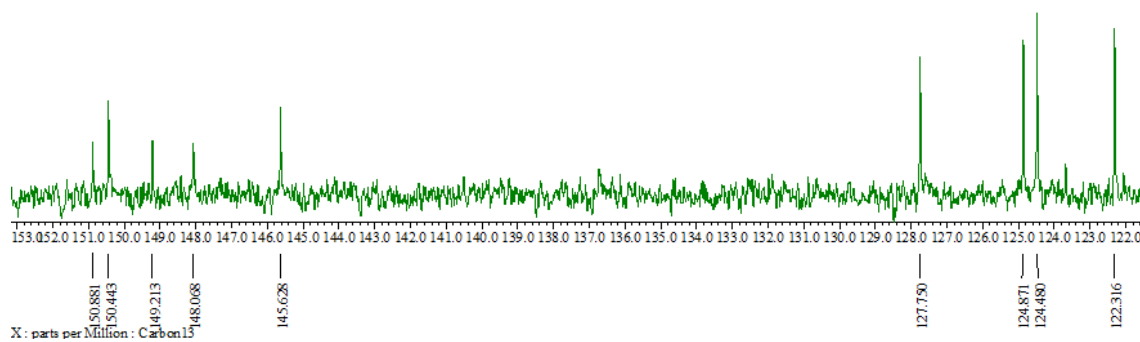
View 2

Figure S1. Packing structure of Cp*(sumanenyl)HfCl₂ (**4**).

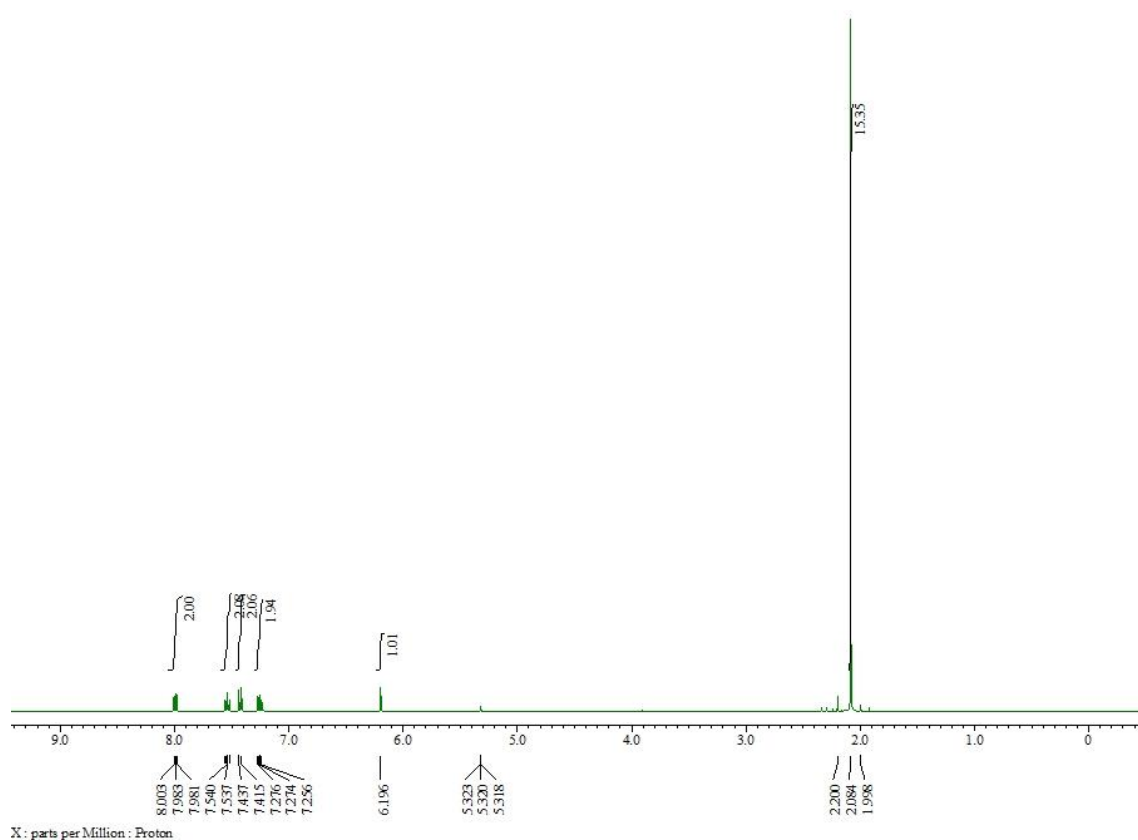
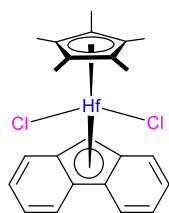
^{13}C NMR spectrum of **4** (100 MHz, CD_2Cl_2)



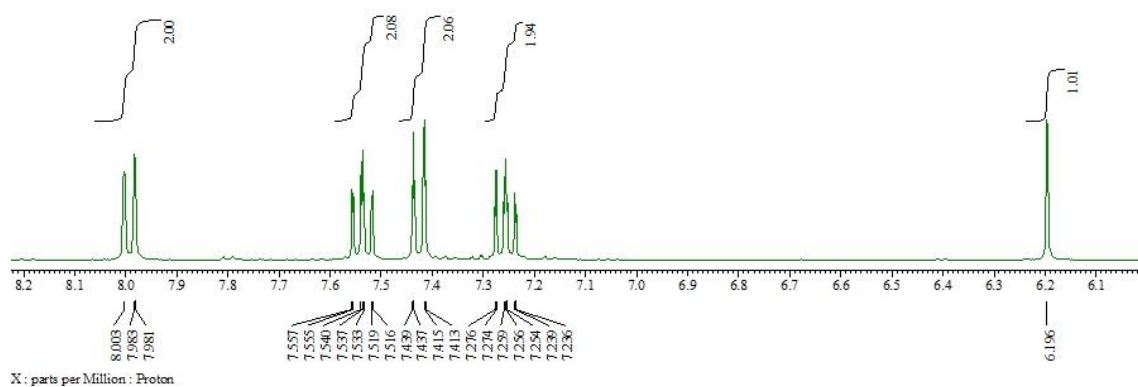
Enlarged view



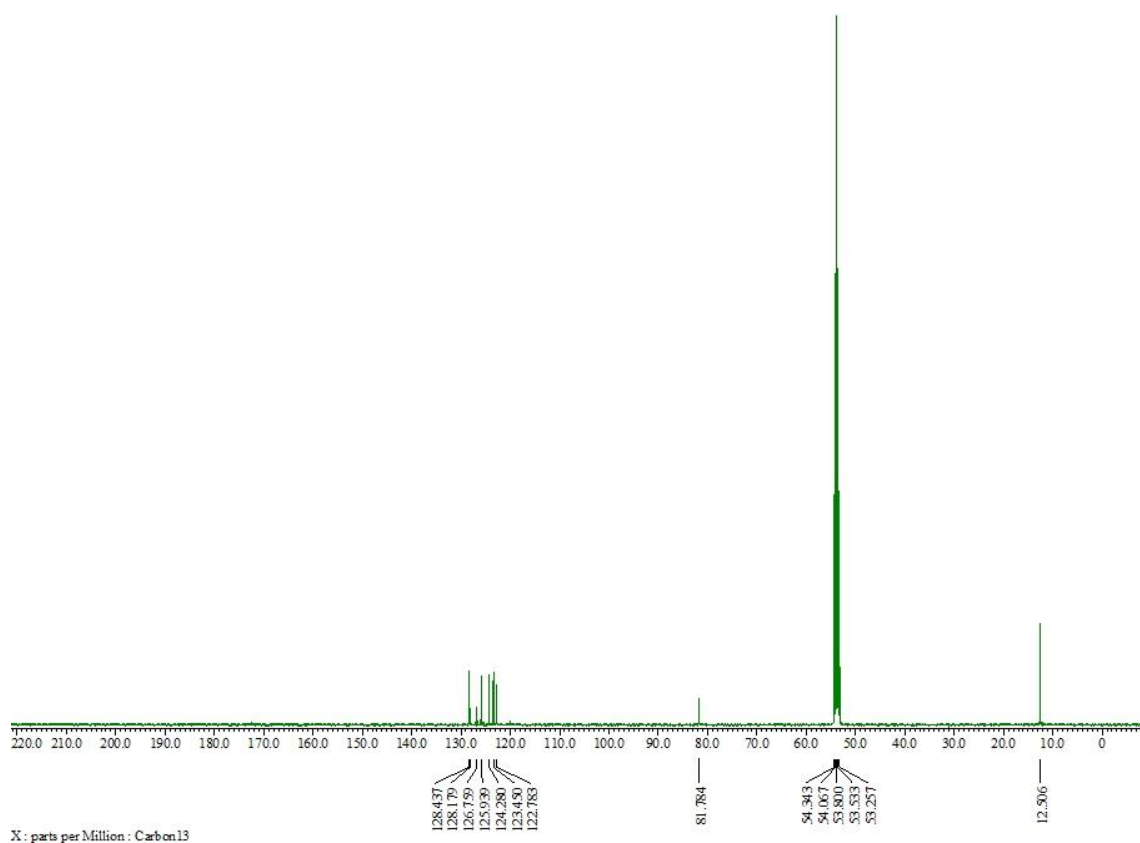
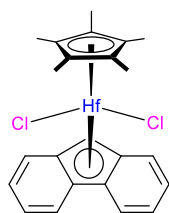
^1H NMR spectrum of $\text{Cp}^*(\text{fluorenyl})\text{HfCl}_2$ (400 MHz, CD_2Cl_2)



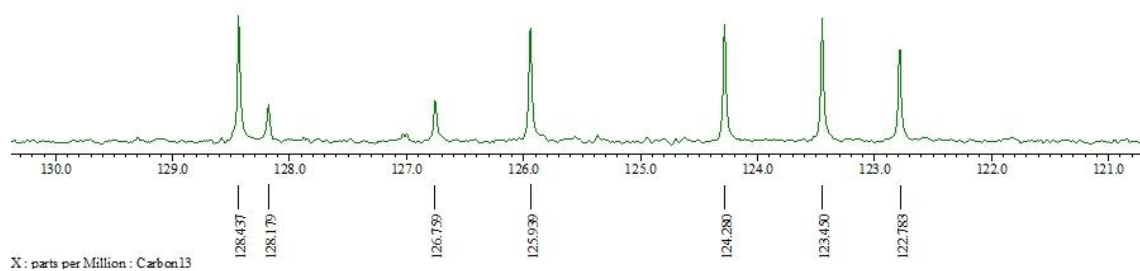
Enlarged view



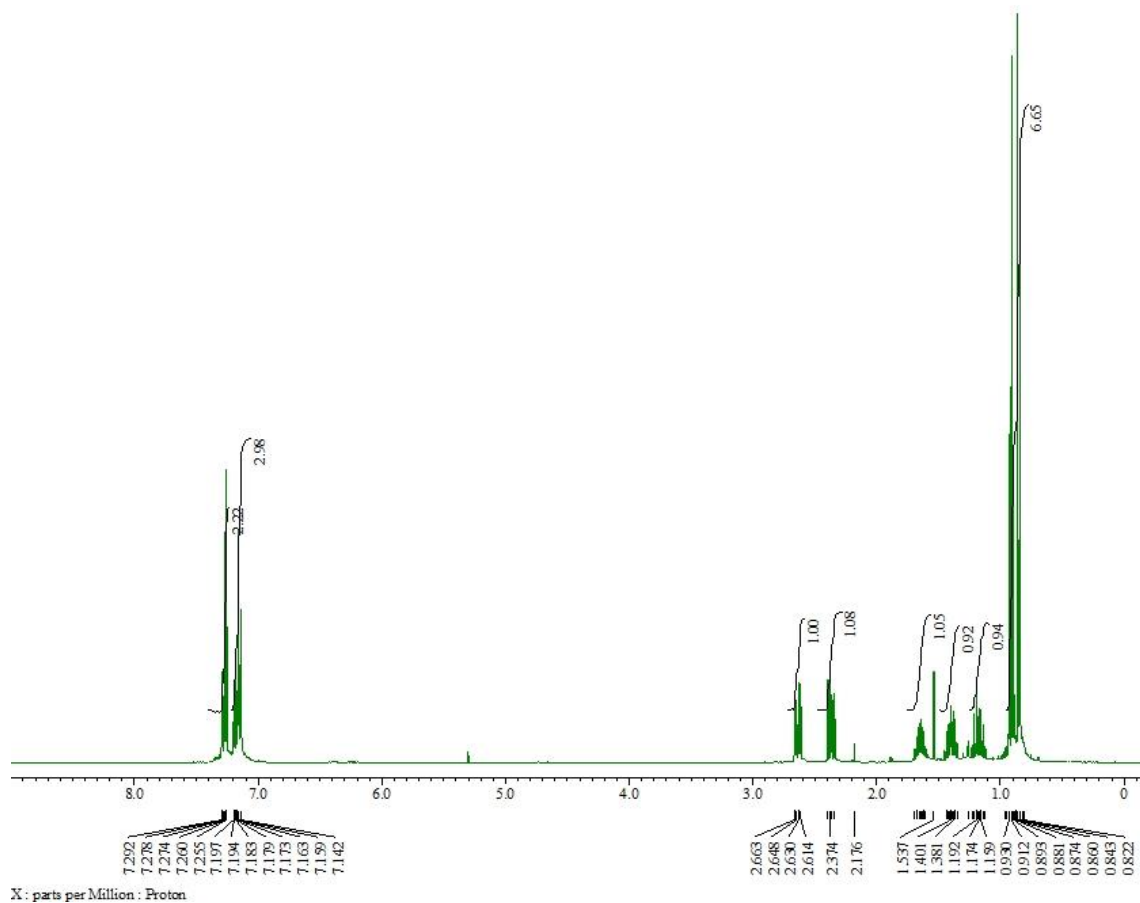
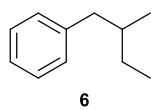
^{13}C NMR spectrum of $\text{Cp}^*(\text{fluorenyl})\text{HfCl}_2$ (100 MHz, CD_2Cl_2)



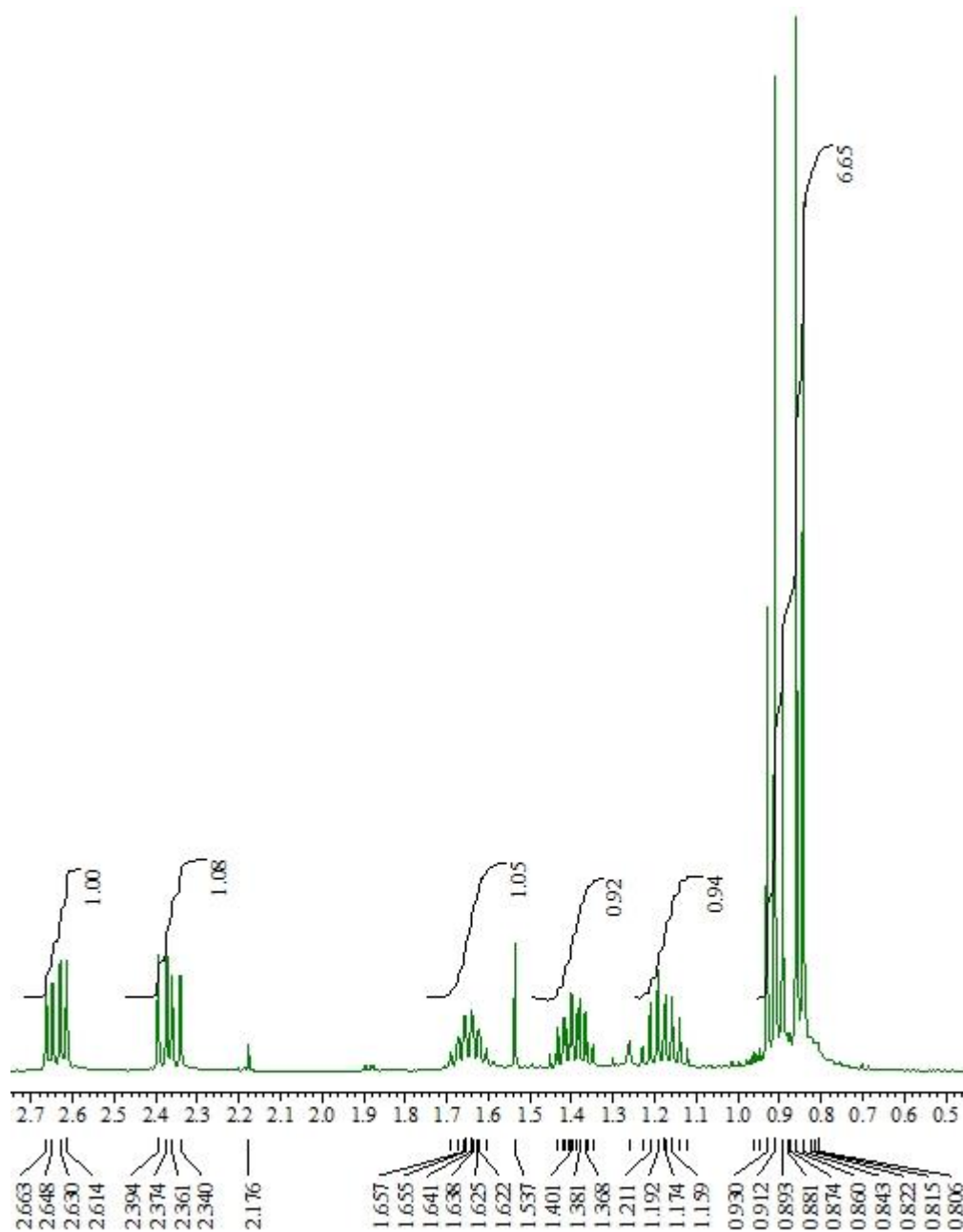
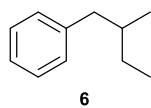
Enlarged view



^1H NMR spectrum of **6** (400 MHz, CDCl_3)



Enlarged view of the ^1H NMR spectrum of **6** (400 MHz, CDCl_3)



^{13}C NMR spectrum of **6** (100 MHz, CDCl_3)

