

Supplementary Materials: Unprecedented Multifunctionality of Grubbs and Hoveyda–Grubbs Catalysts: Competitive Isomerization, Hydrogenation, Silylation and Metathesis Occurring in Solution and on Solid Phase

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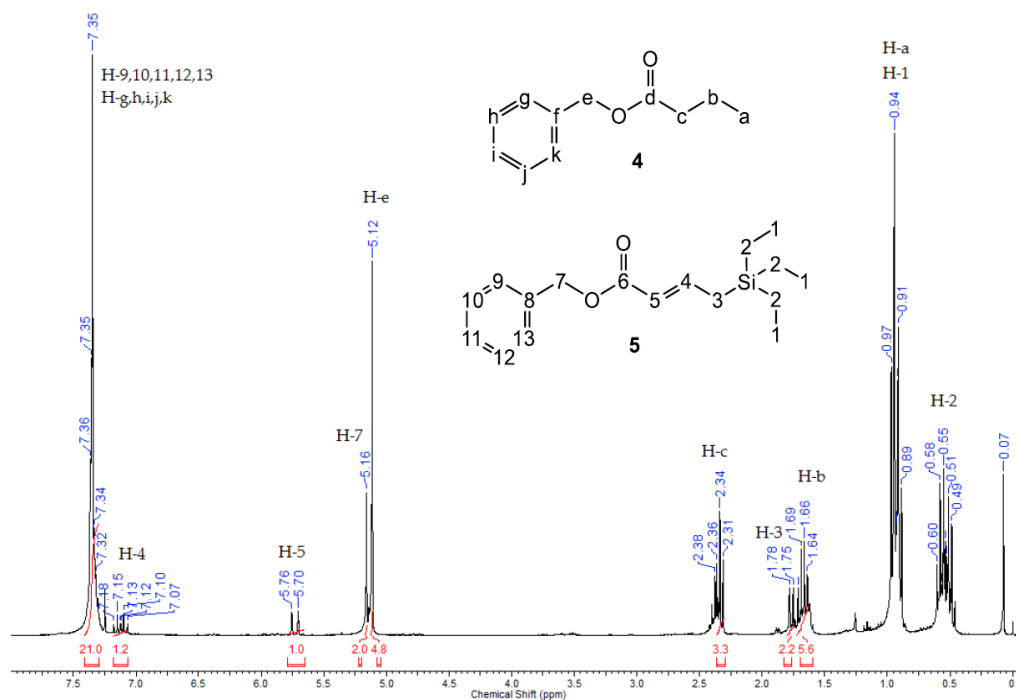
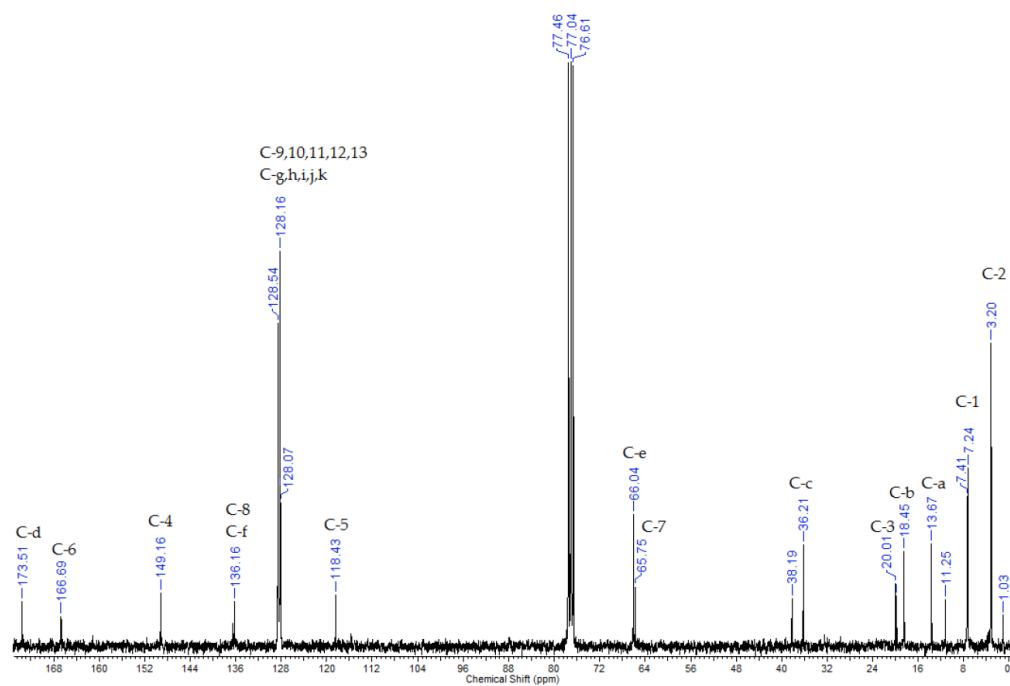
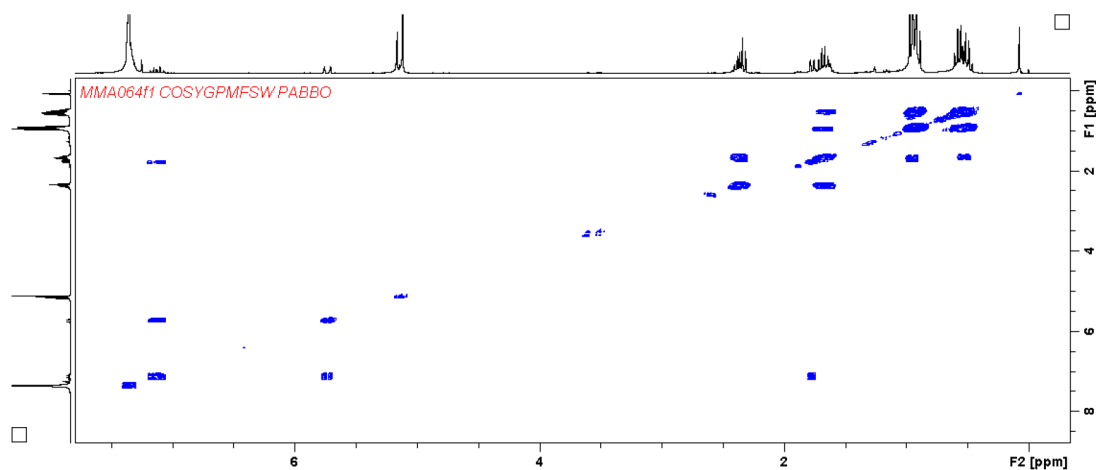
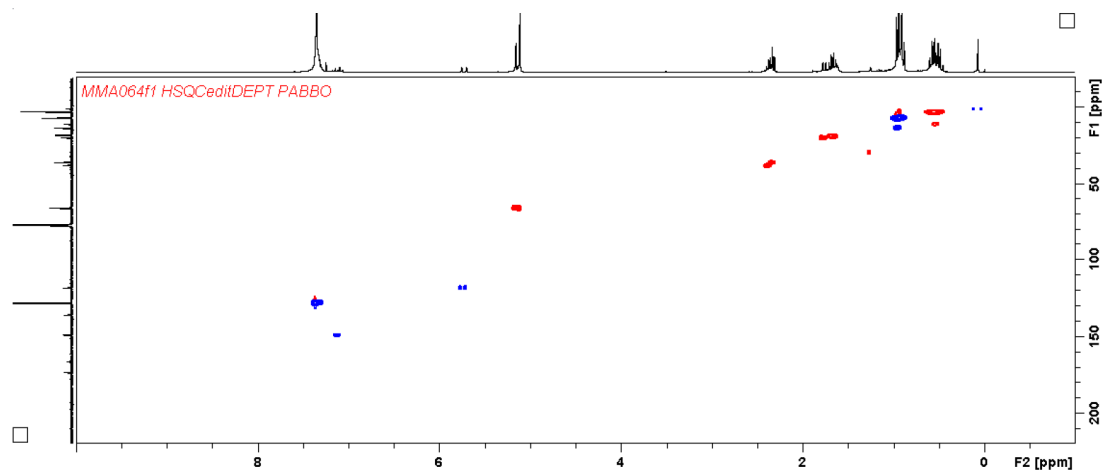


Figure S1. ^1H NMR of a mixture of compounds **4** and **5** in CDCl_3 .

Figure S2. ¹³C NMR of a mixture of compounds 4 and 5 in CDCl₃.Figure S3. HH-COSY NMR of a mixture of compounds 4 and 5 in CDCl₃.Figure S4. HSQC NMR of a mixture of compounds 4 and 5 in CDCl₃.

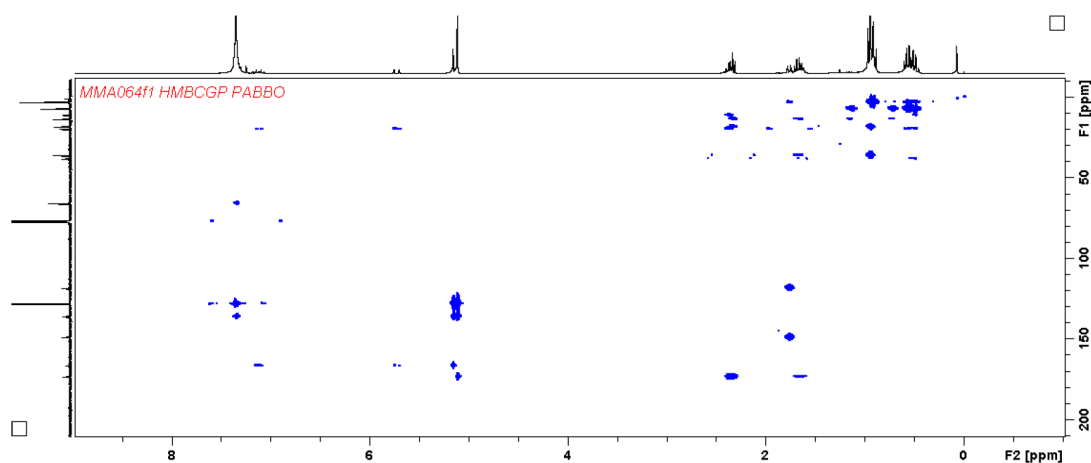


Figure S5. HMBC NMR of a mixture of compounds **4** and **5** in CDCl₃.

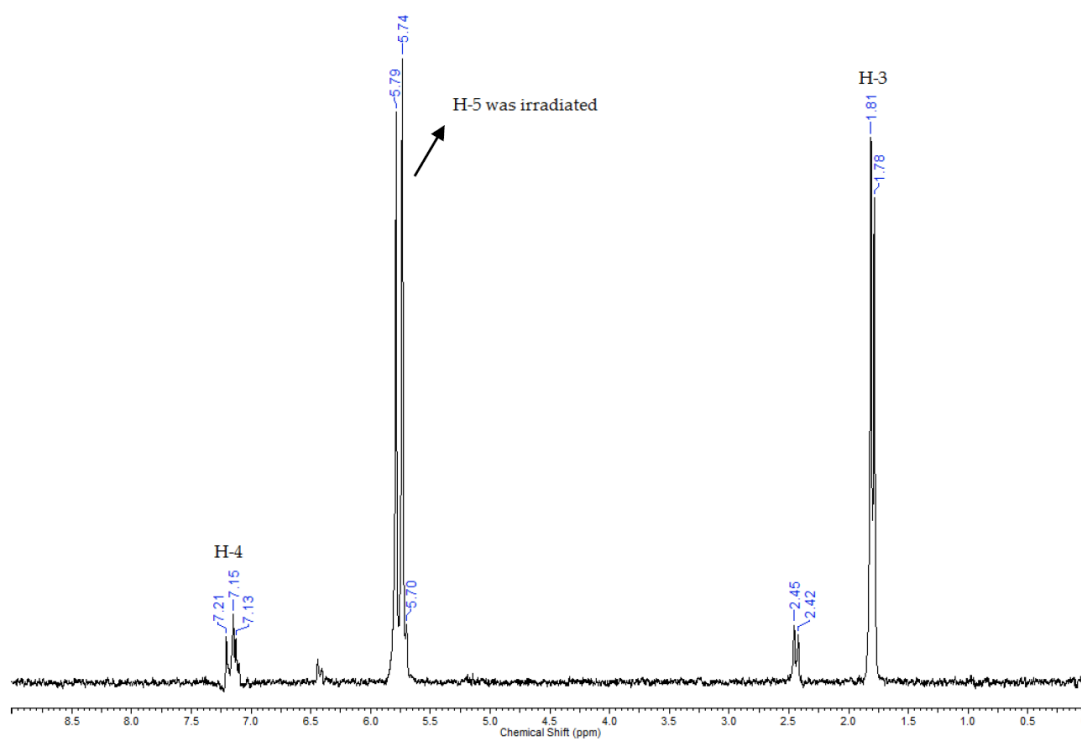


Figure S6. TOCSY NMR of a mixture of compounds **4** and **5** in CDCl₃, the experiment was carried out irradiating H-5 of compound **5**.

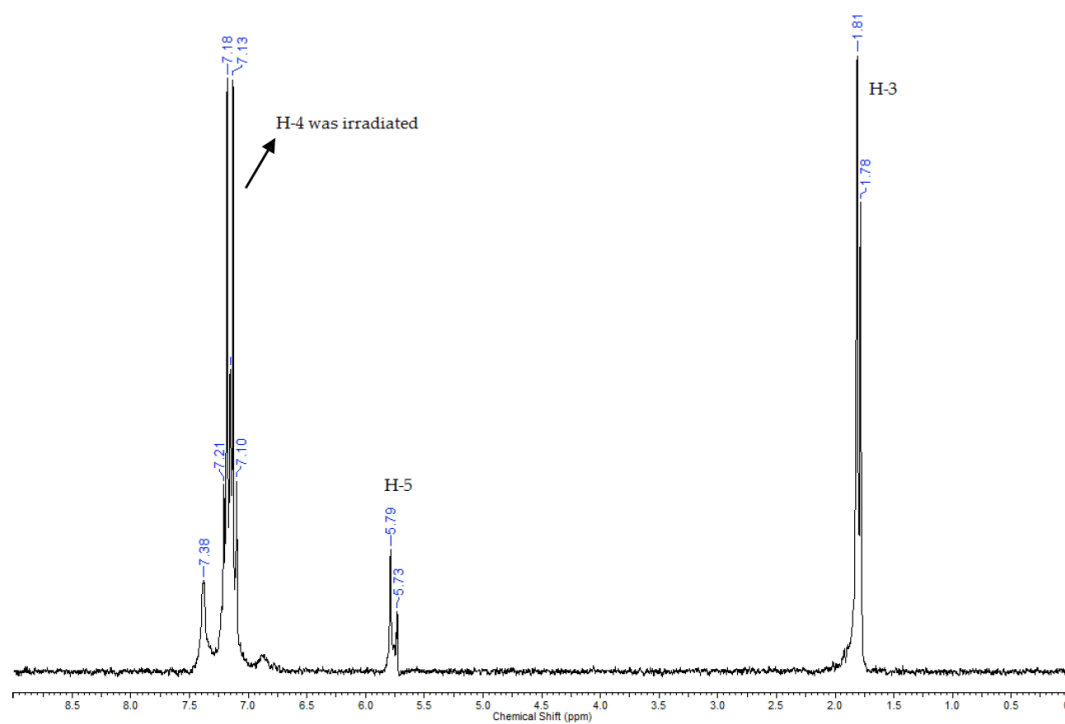


Figure S7. TOCSY NMR of a mixture of compounds **4** and **5** in CDCl_3 , the experiment was carried out irradiating H-4 of compound **5**.

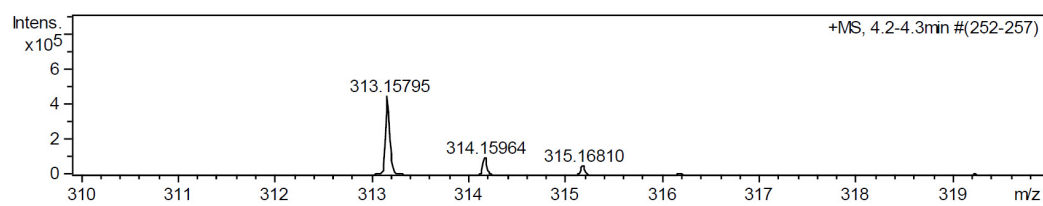


Figure S8. Experimental HRMS of compound **5**.

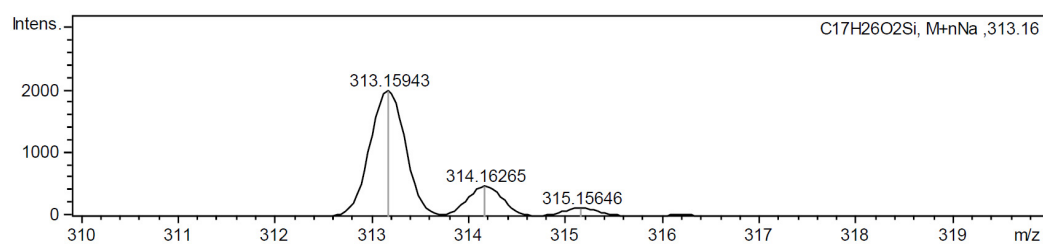
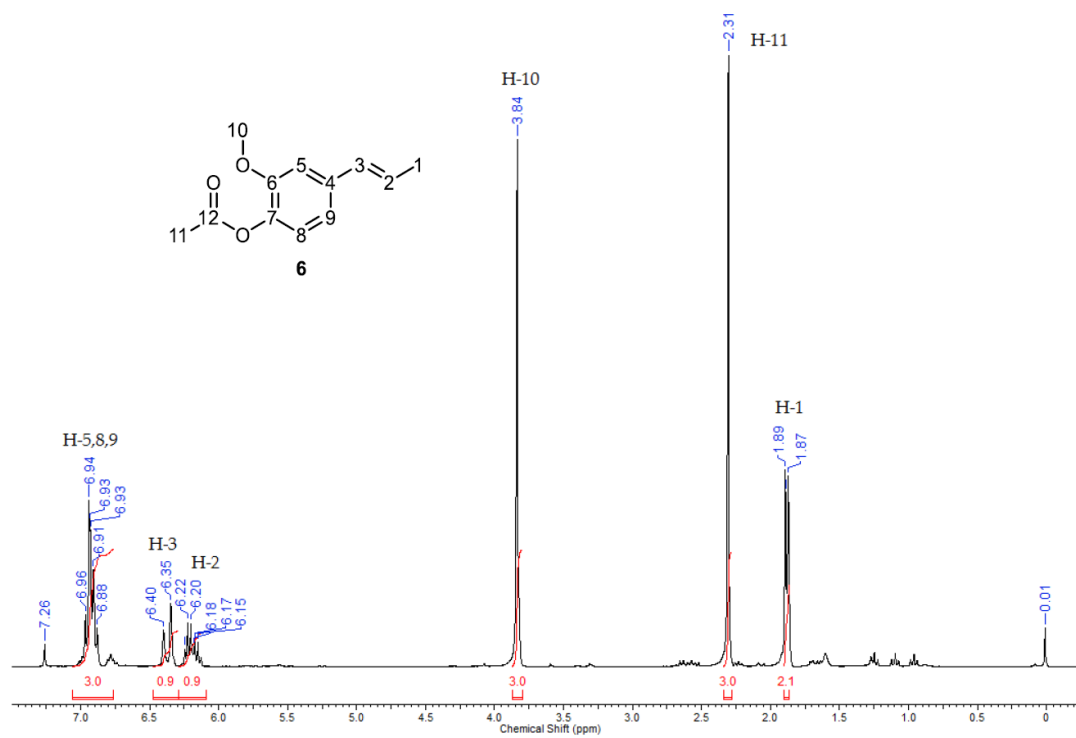
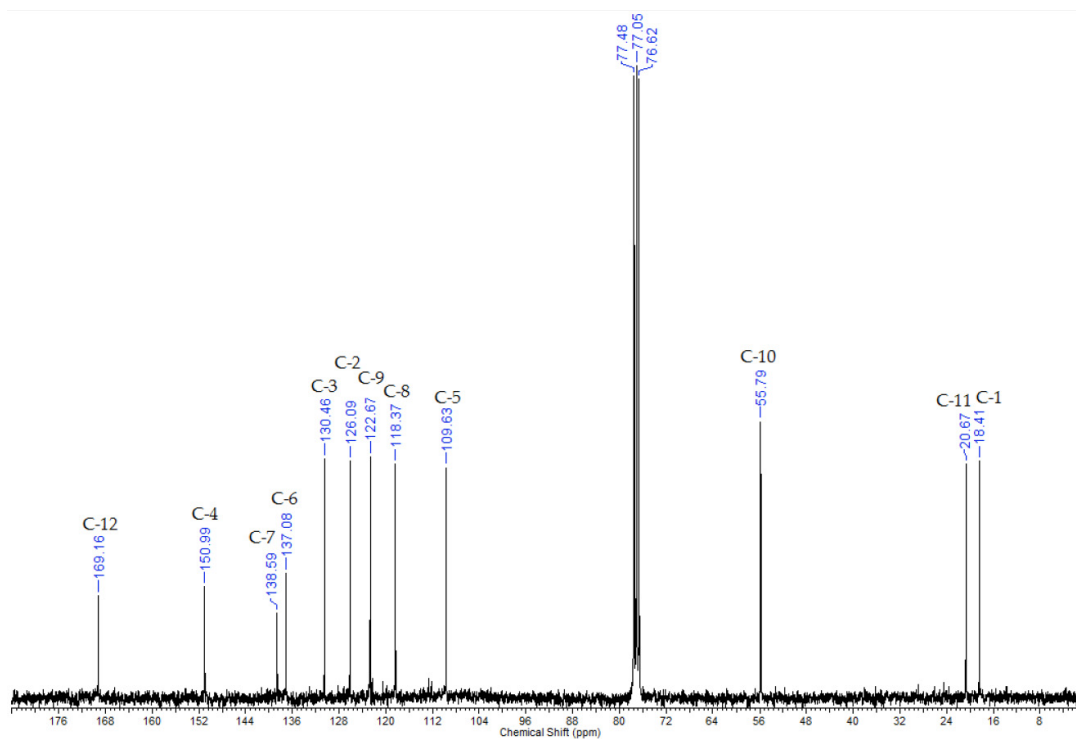


Figure S9. Simulated HRMS of compound **5**.

Figure S10. ¹H NMR of compound 6 in CDCl₃.Figure S11. ¹³C NMR of compound 6 in CDCl₃.

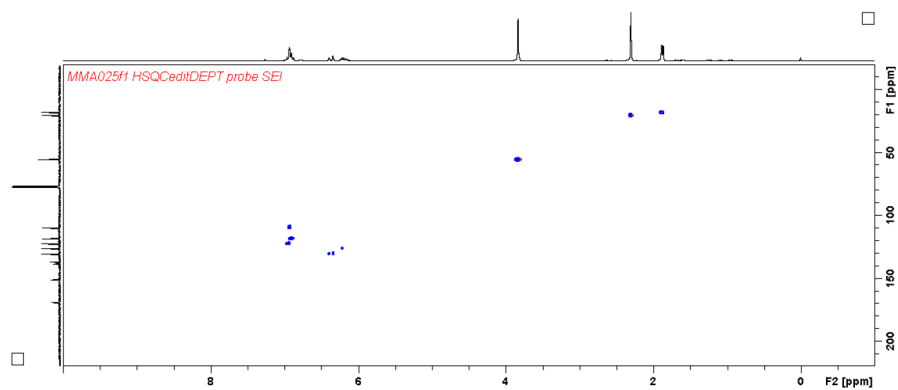
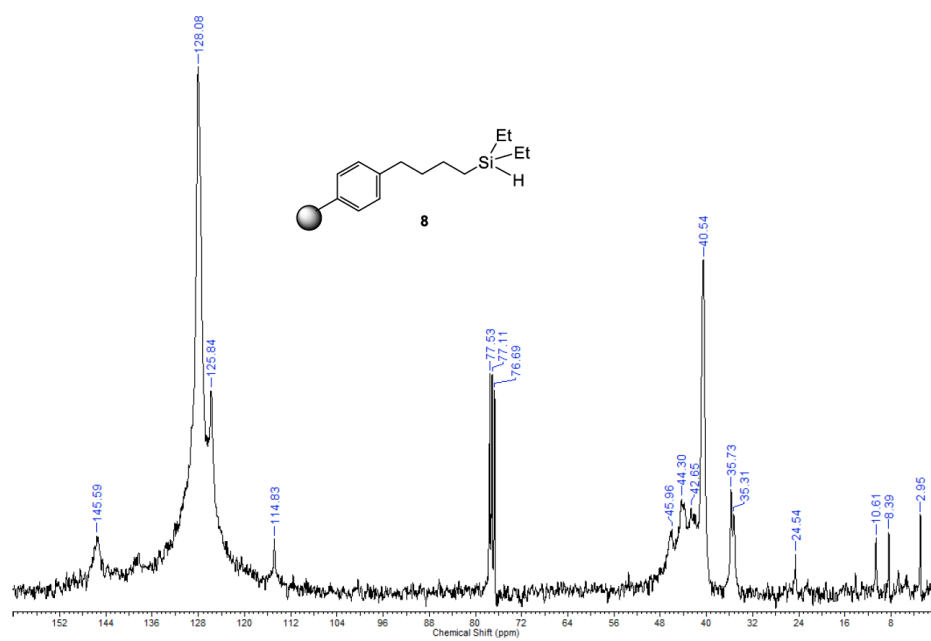
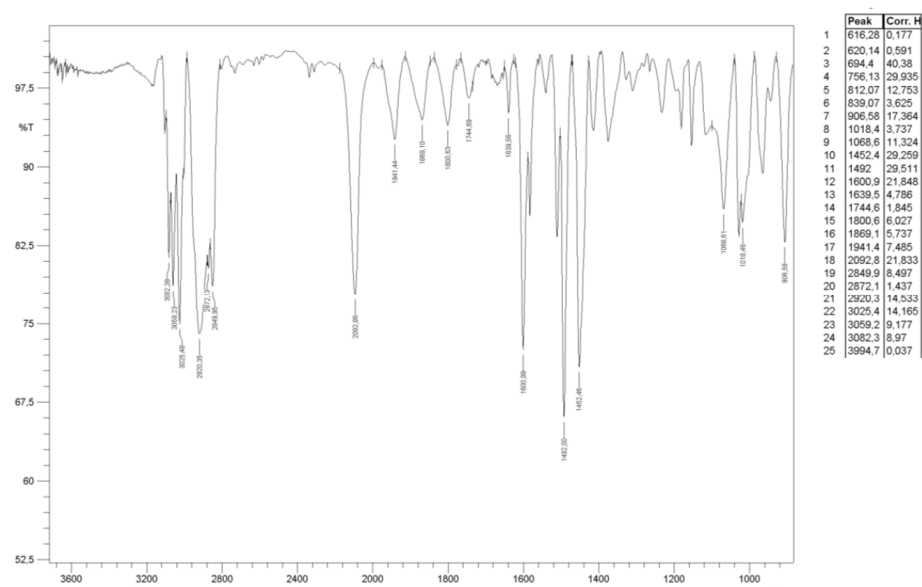
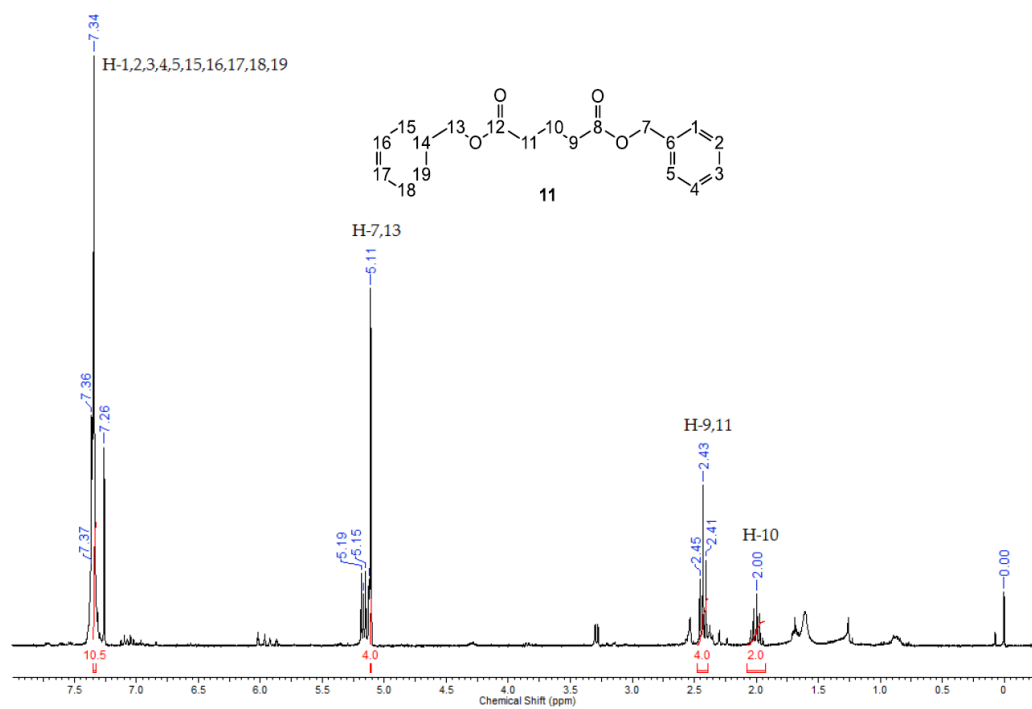
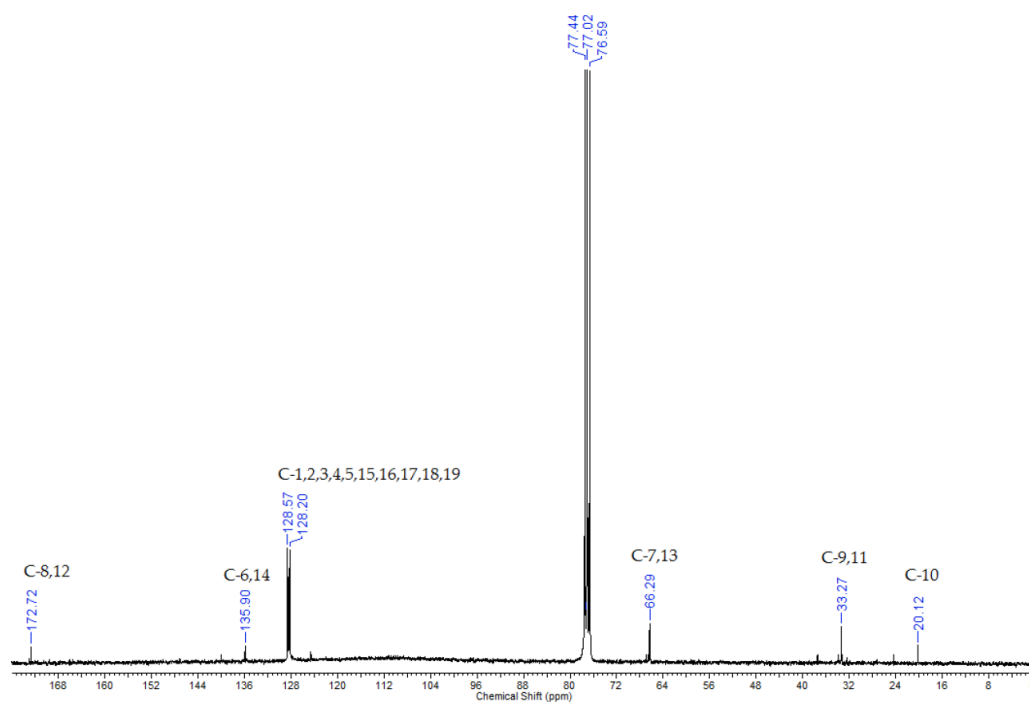
Figure S12. HSQC NMR of compound 6 in CDCl₃.Figure S13. ¹³C gel phase NMR of resin 8 in CDCl₃.

Figure S14. IR of resin 8 in KBr pellet.

Figure S15. ¹H NMR of compound 11 in CDCl₃.Figure S16. ¹³C NMR of compound 11 in CDCl₃.

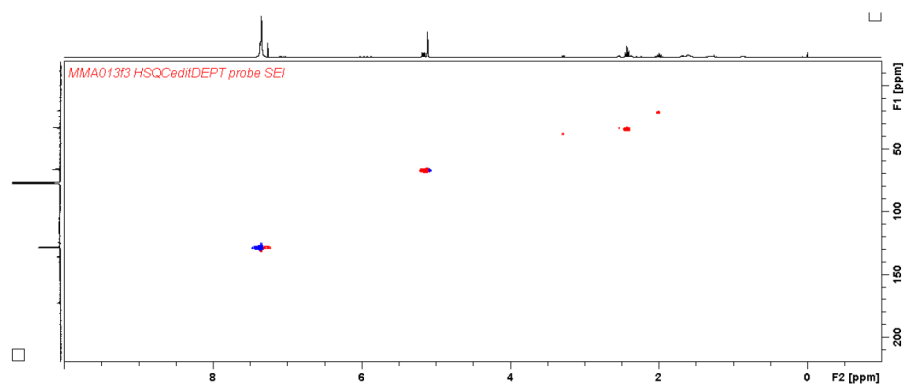


Figure S17. HSQC NMR of compound **11** in CDCl_3 .