

SUPPORTING INFORMATION

Title: Pybox/Lanthanide-Catalysed Diels–Alder Reactions with an Unsaturated α -Oxo Ester or 3-Alkenoyl-2-oxazolidinone as Dienophile: The Sense of Stereoinduction in Five- or Six-Membered Bidentate Reagent Coordination

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NMR Spectra

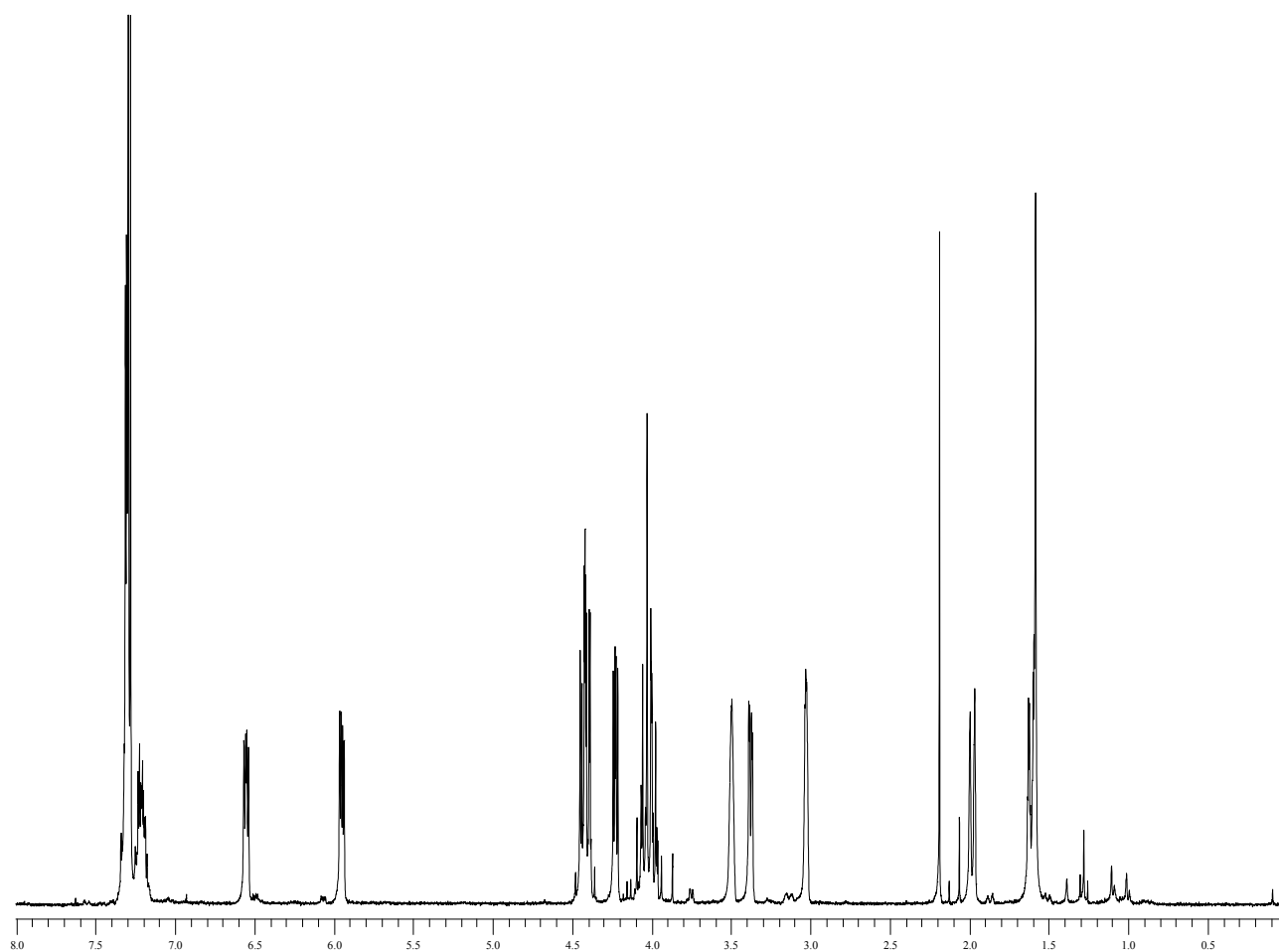


Figure S1. ^1H -NMR Spectrum of **5**.

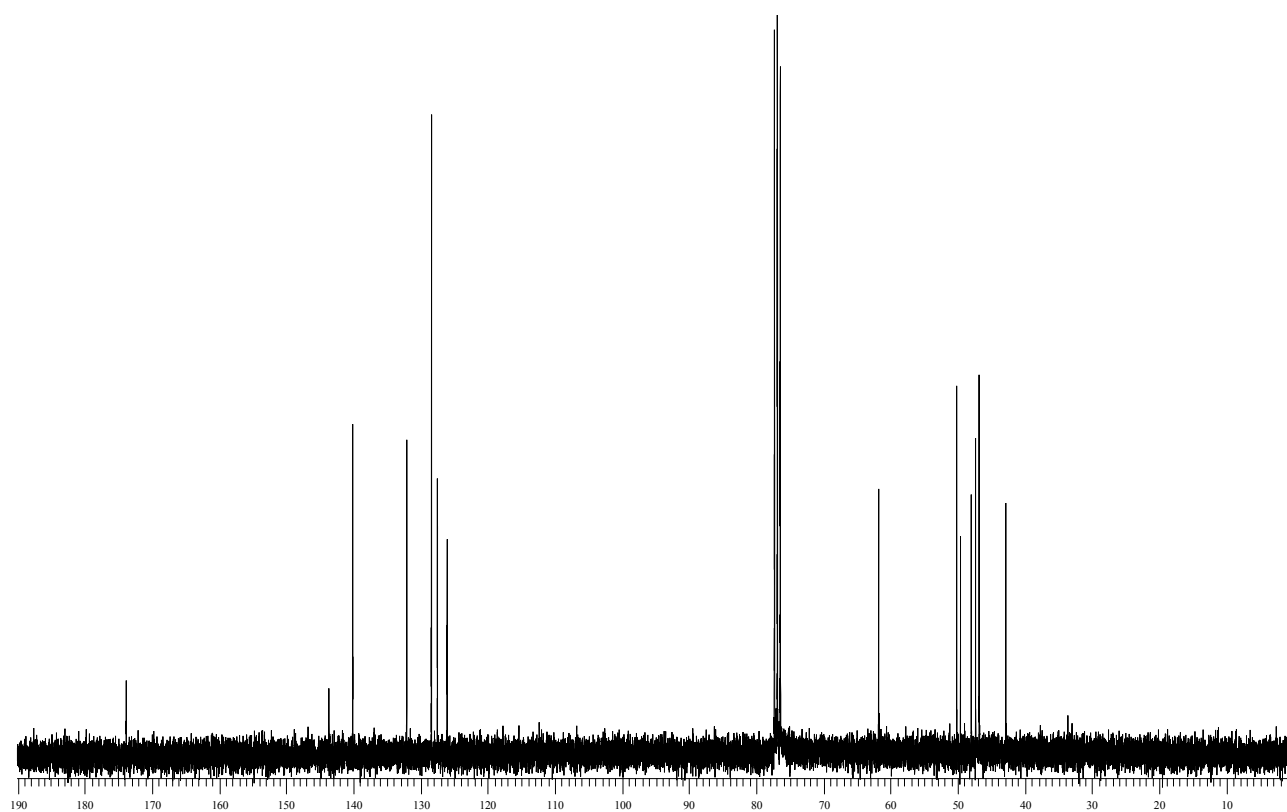


Figure S2. ^{13}C -NMR Spectrum of **5**.

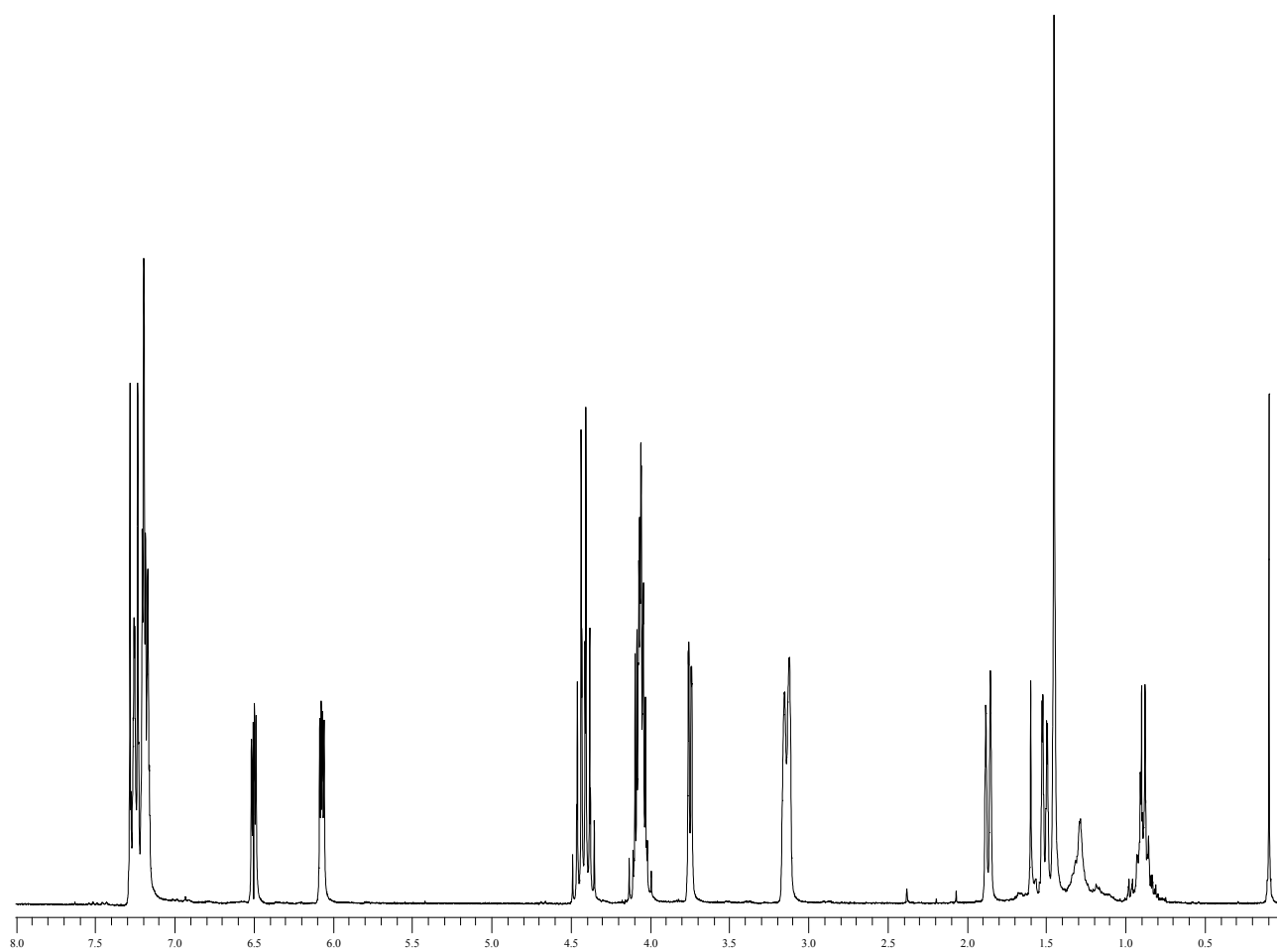


Figure S3. ^1H -NMR Spectrum of **6**.

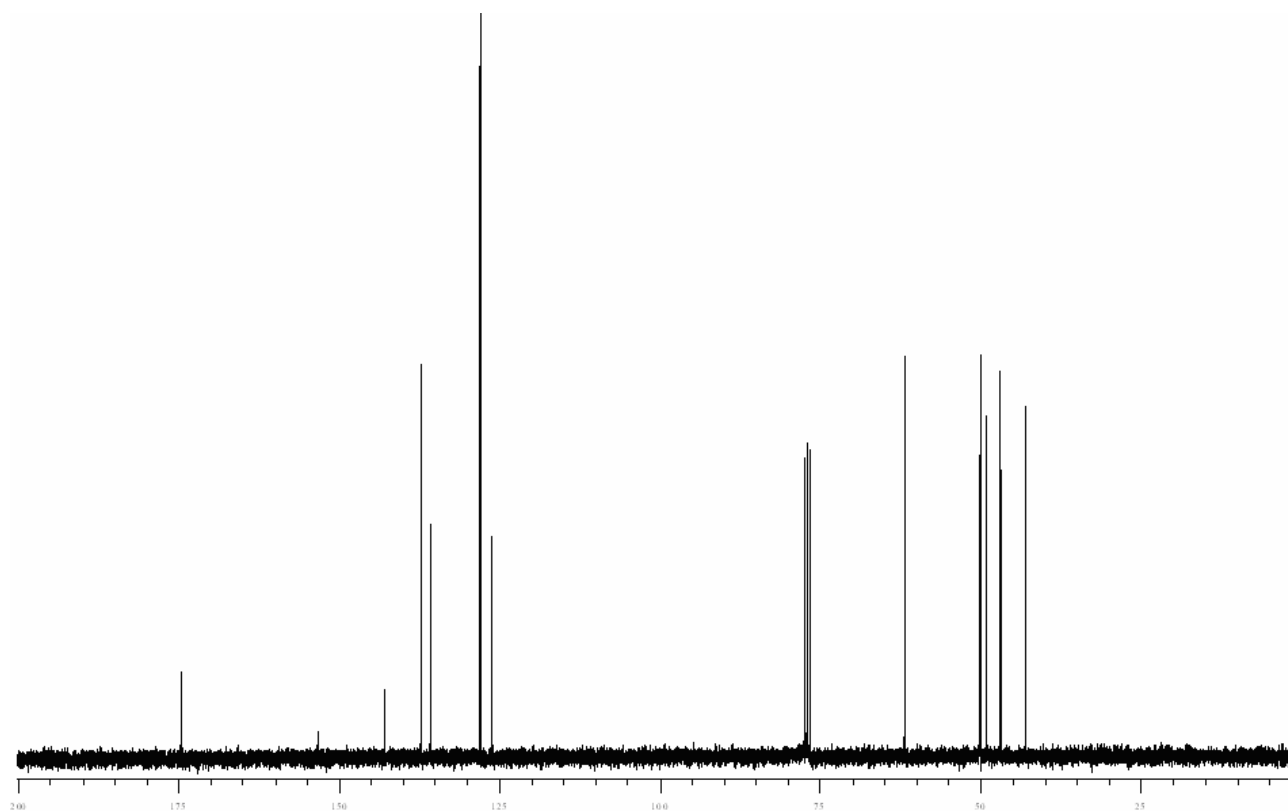


Figure S4. ^{13}C -NMR Spectrum of **6**.

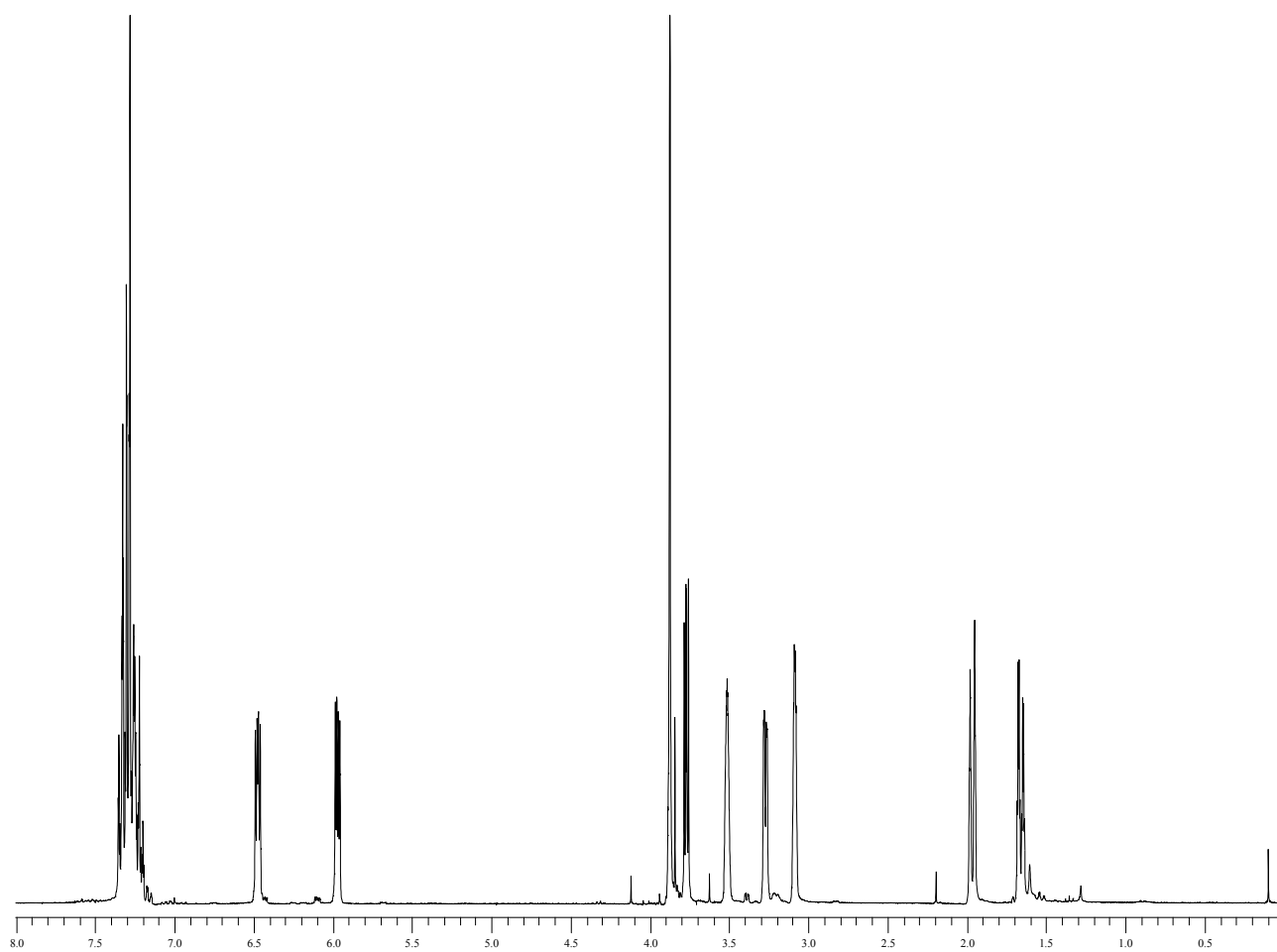


Figure S5. ^1H -NMR Spectrum of **7**.

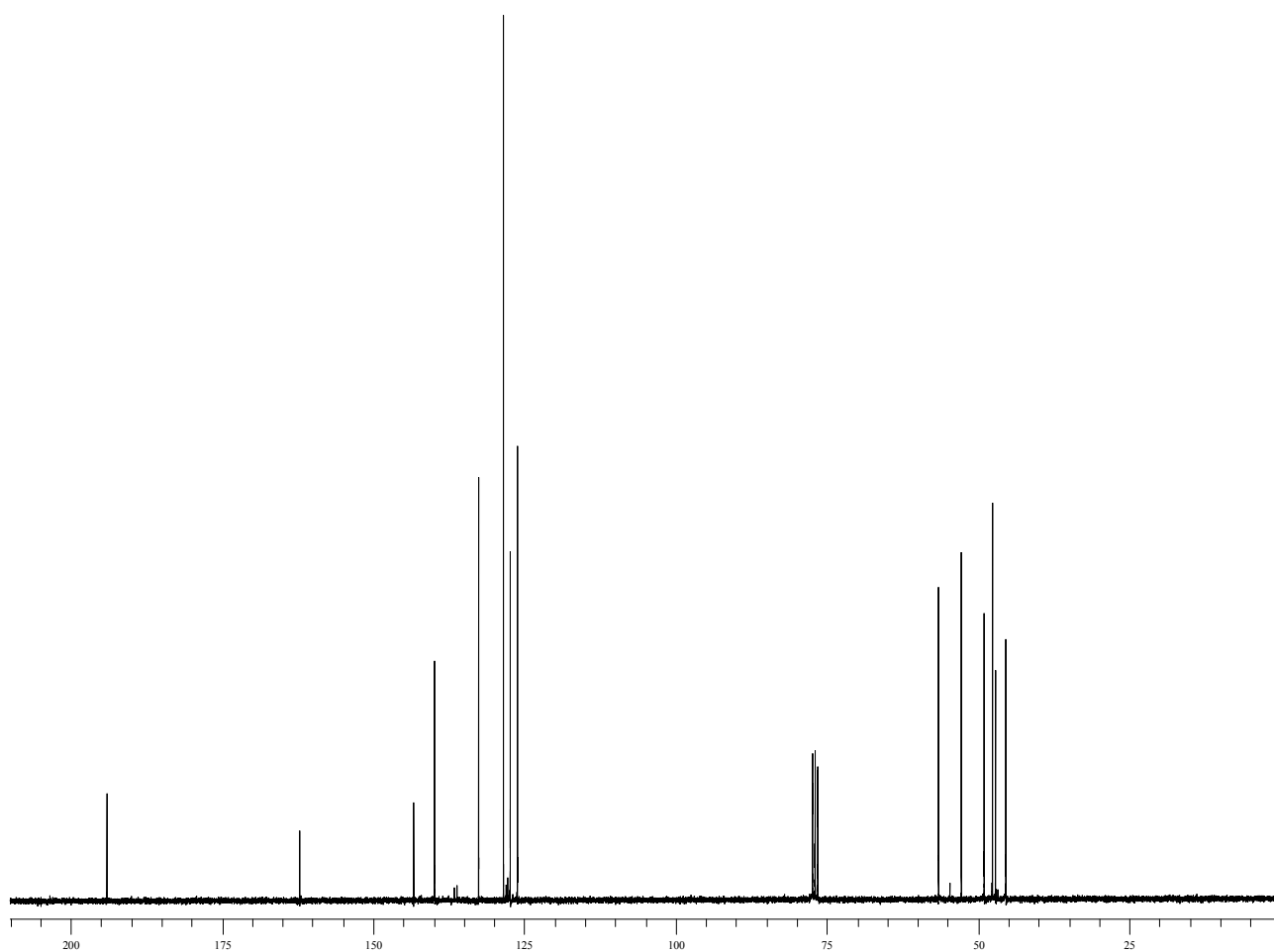


Figure S6. ^{13}C -NMR Spectrum of 7.

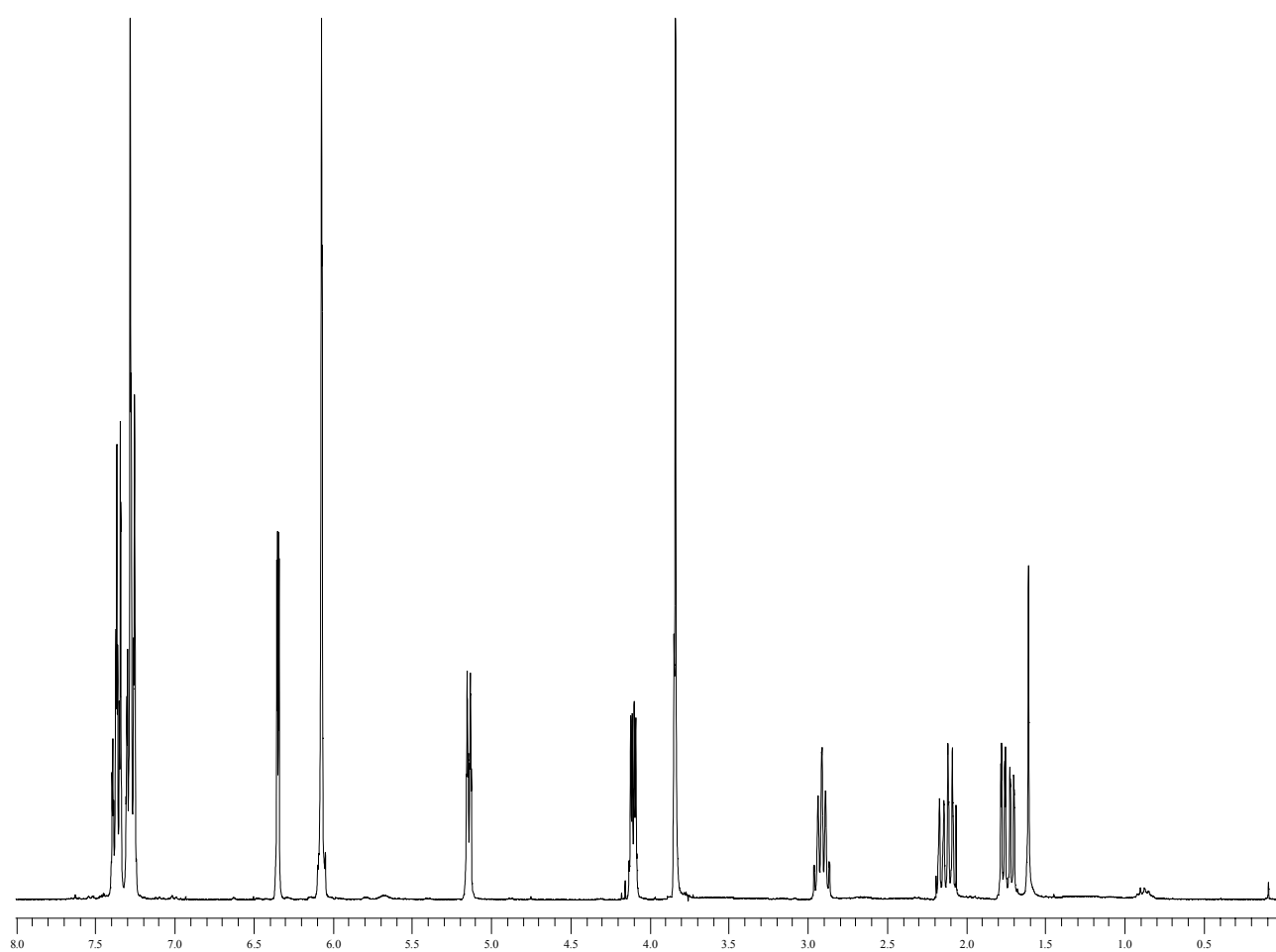


Figure S7. ^1H -NMR Spectrum of **9**.

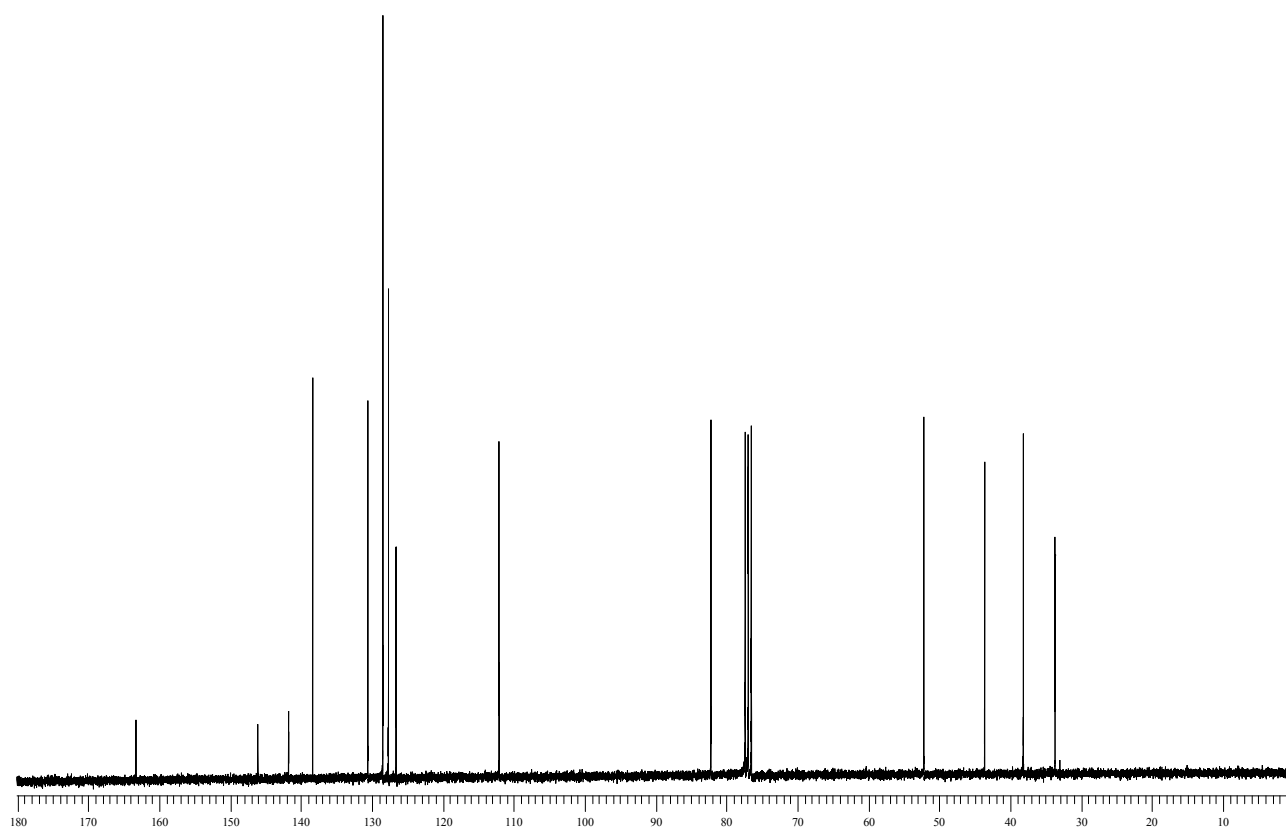


Figure S8. ^{13}C -NMR Spectrum of **9**.

HPLC Chromatograms

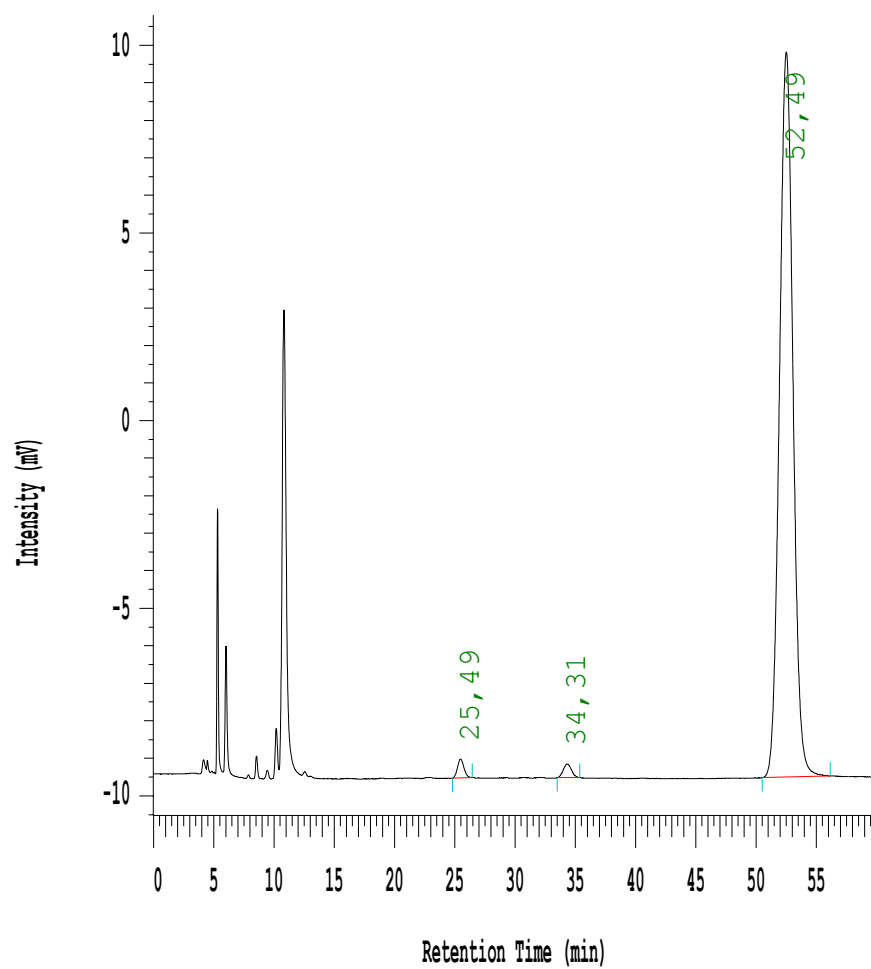


Figure S9. Chromatogram of the Sc(III)-catalyzed D.A. reaction between **2** and **3** to give **5** and **6** in Table 1, entry 1.

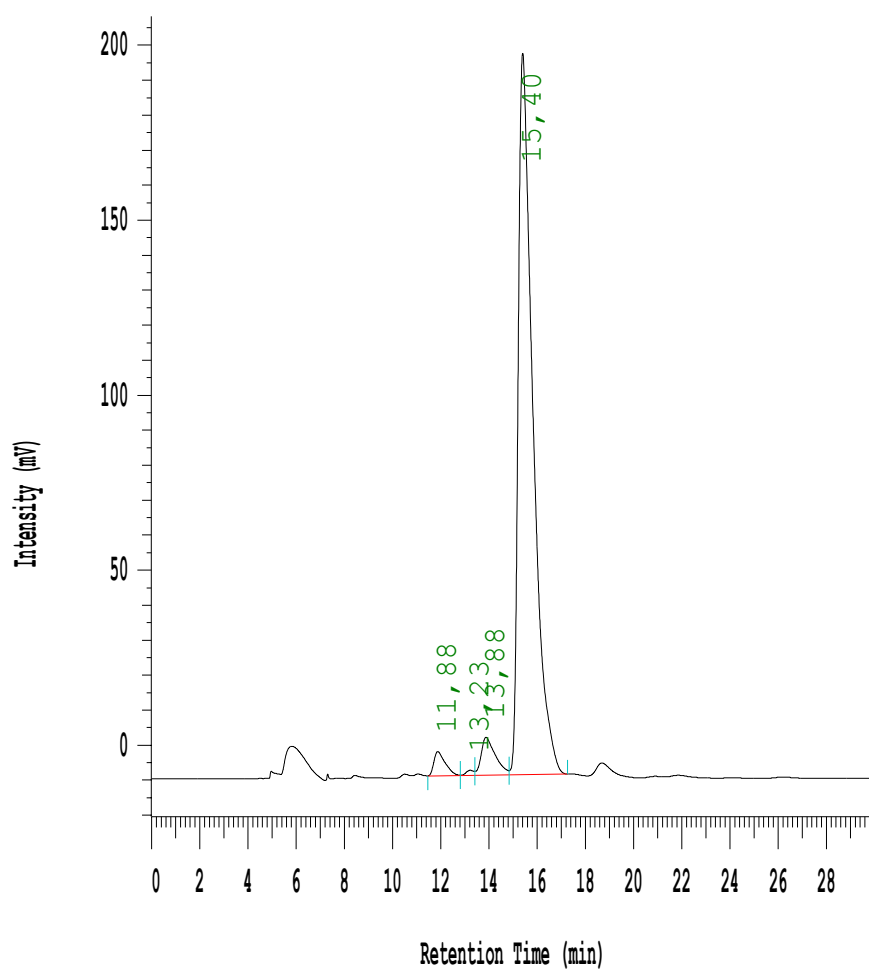


Figure S10 Chromatogram of the Sc(III)-catalyzed D.A. reaction between **2** and **4** to give **7** and **8** in Table 2, entry 1.

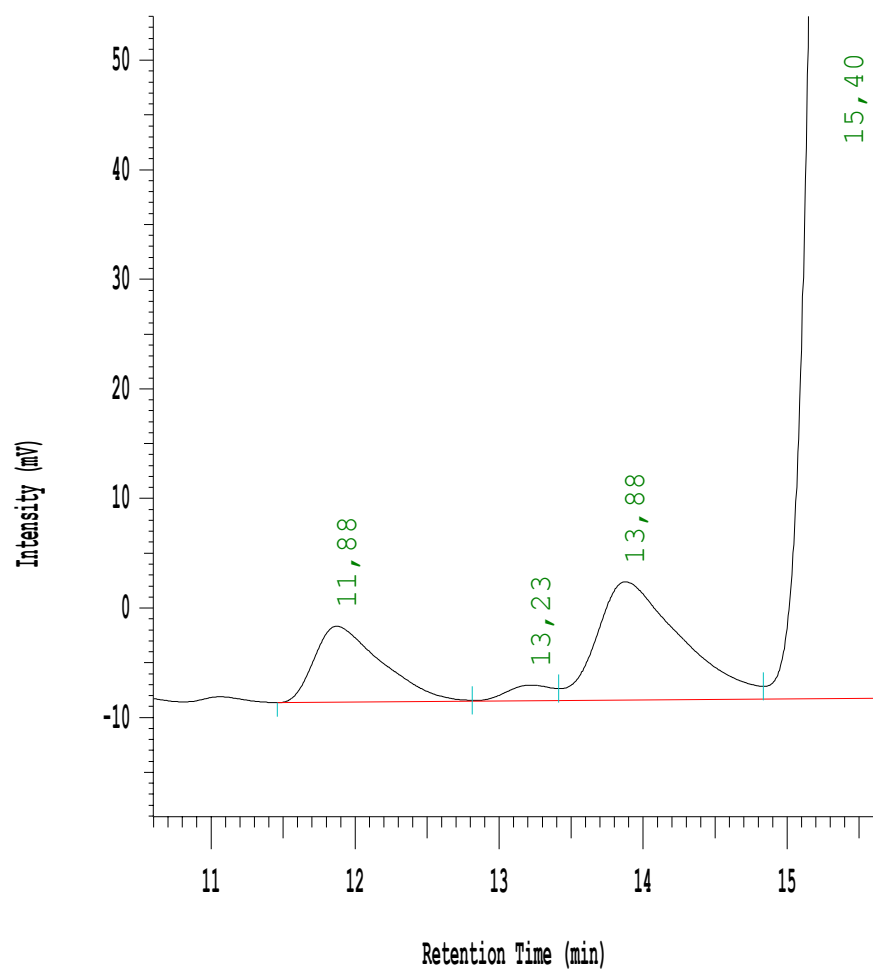


Figure S11. Expanded chromatogram of the Sc(III)-catalyzed D.A. reaction between **2** and **4** to give **7** and **8** in Fig. S10.

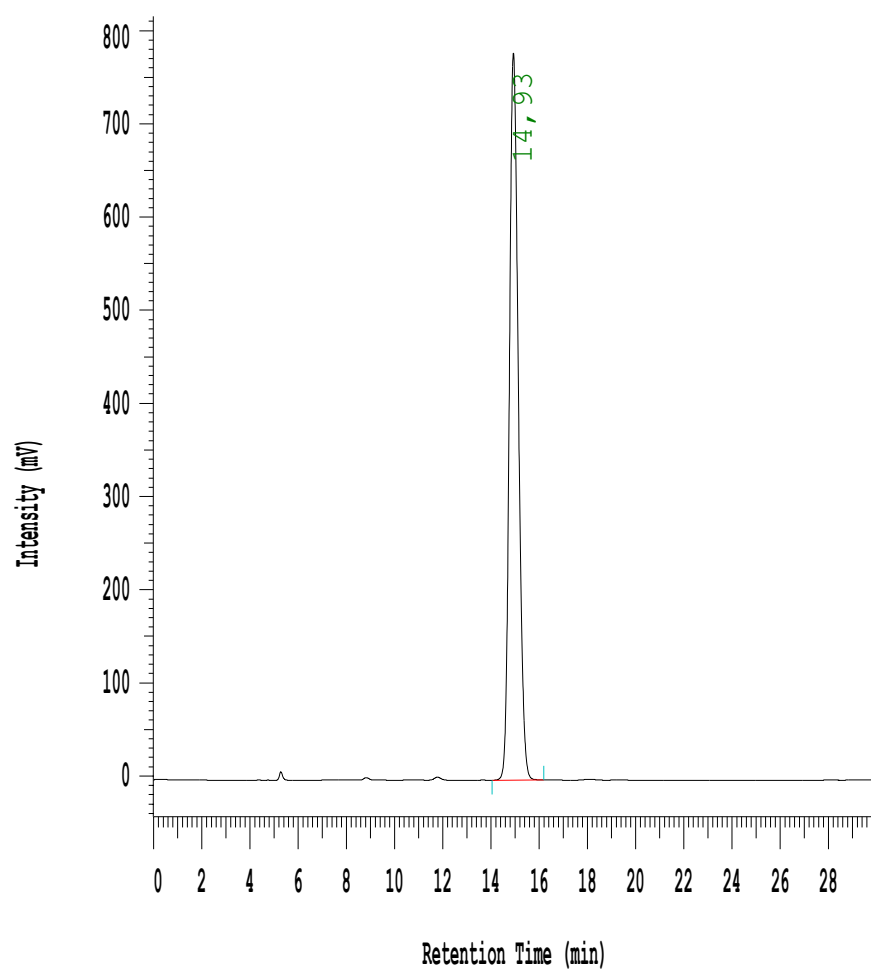


Figure S12. Chromatogram of the Sc(III)-catalyzed H.D.A. reaction between **2** and **4** to give **9** in Table 2, entry 1.

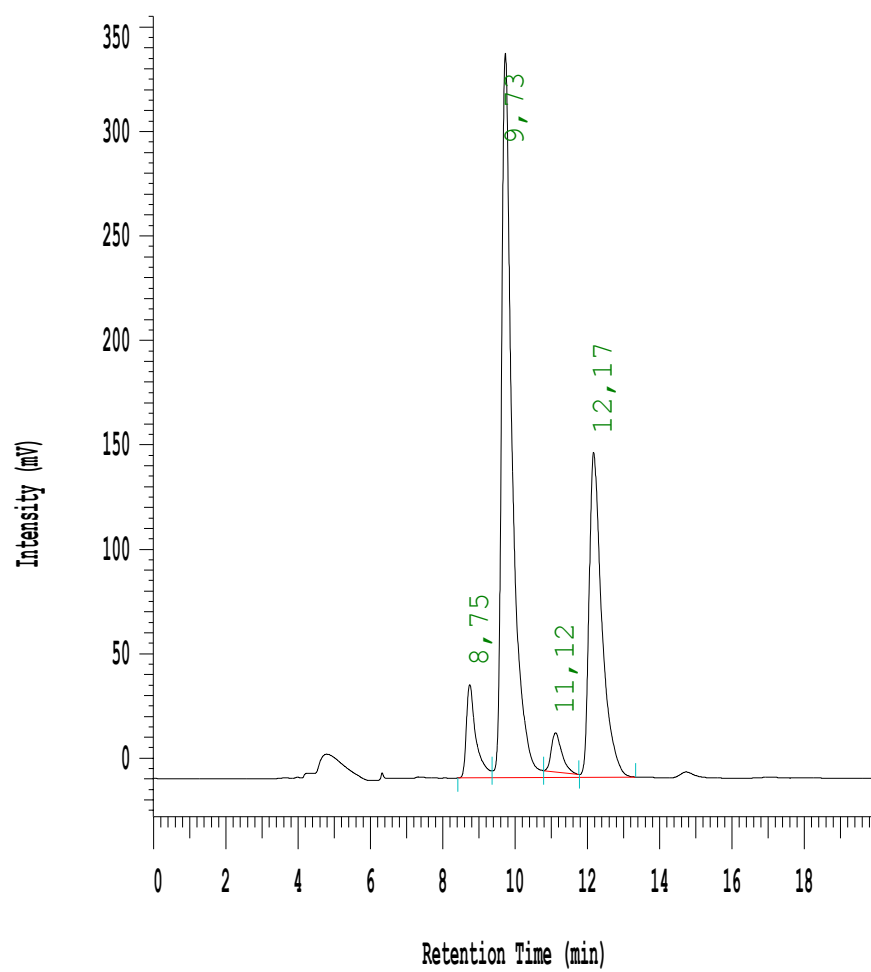


Figure S13 Chromatogram of the La(III)-catalyzed D.A. reaction between **2** and **4** to give **7** and **8** in Table 2, entry 7.

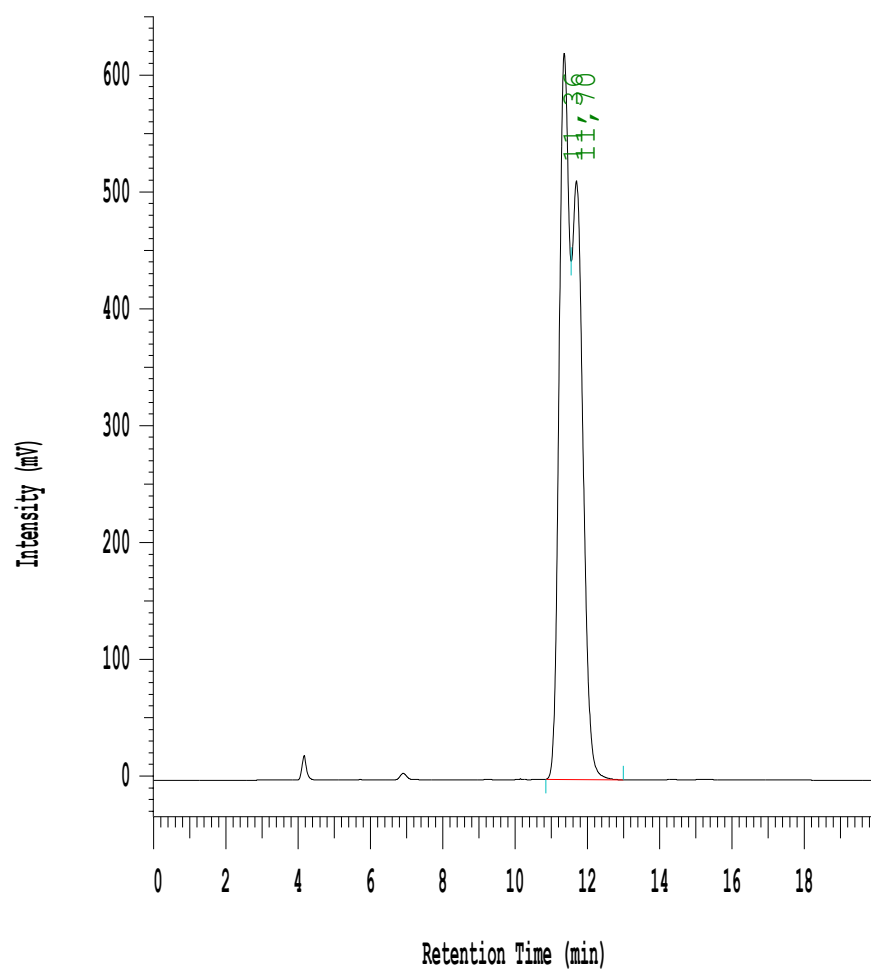


Figure S14. Chromatogram of the La(III)-catalyzed H.D.A. reaction between **2** and **4** to give **9** in Table 2, entry 7.

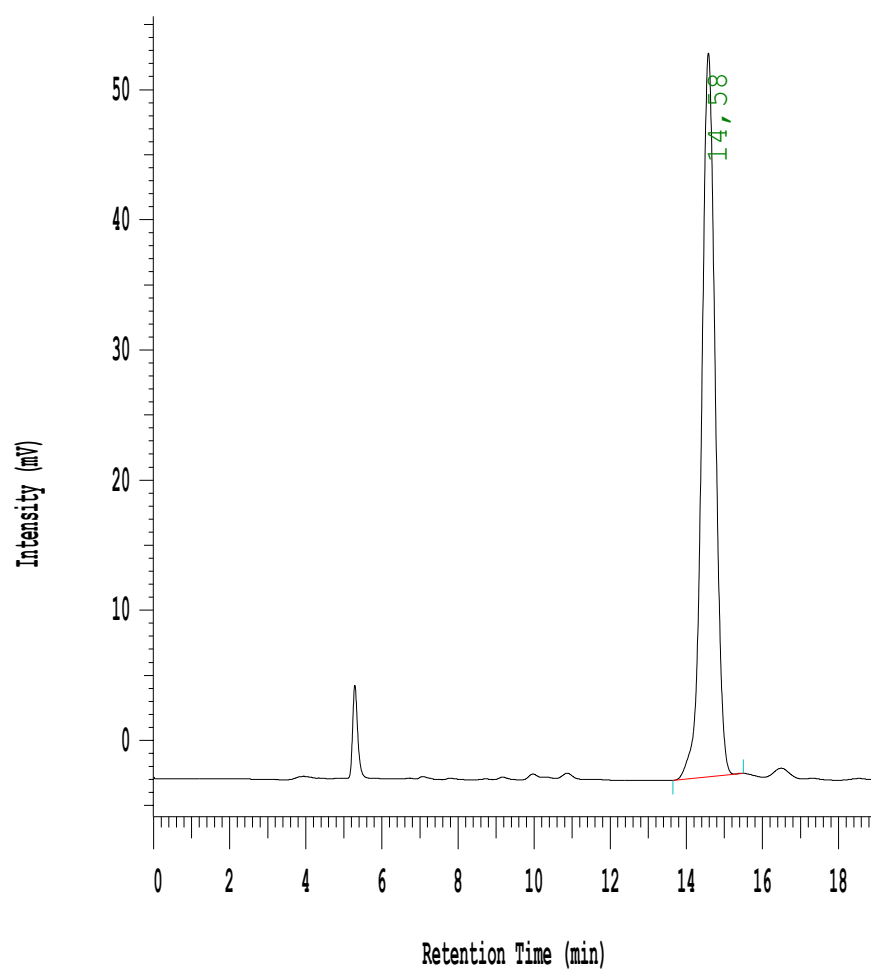


Figure S15 Chromatogram of the H.D.A. product **9** submitted to the Claisen rearrangement in Scheme 3.

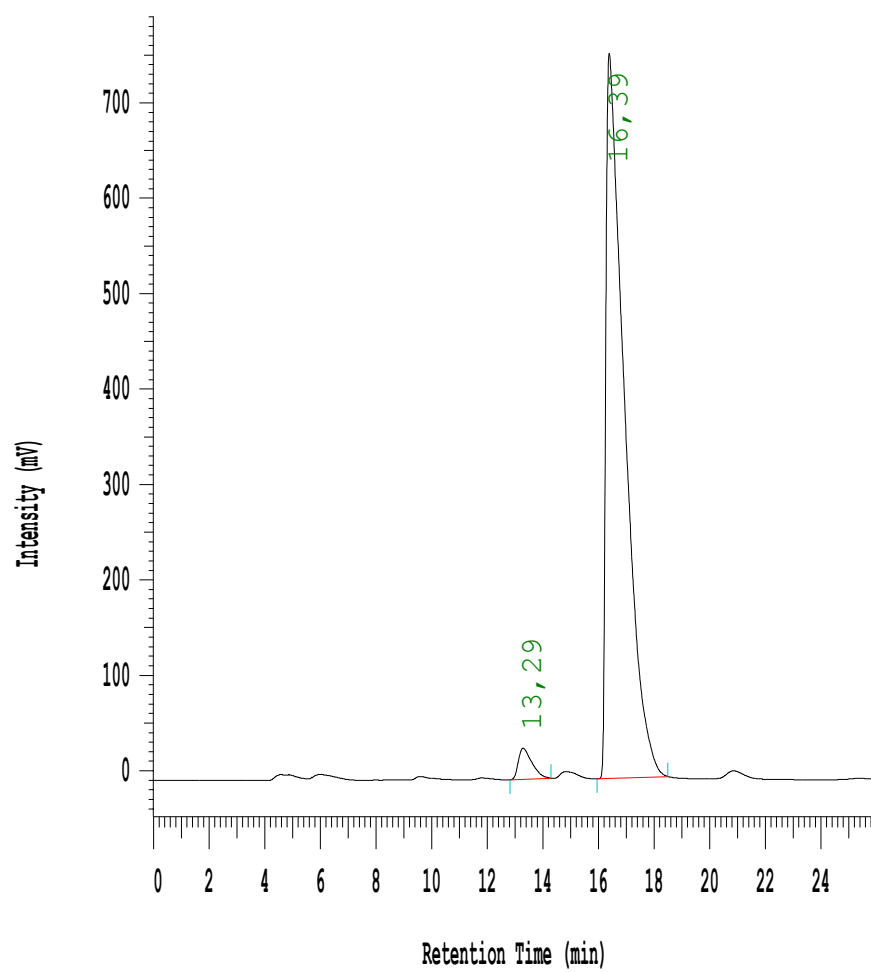


Figure S16 Chromatogram of the D.A. product **7** derived from the Claisen rearrangement of the sample **9** of Fig. S15.

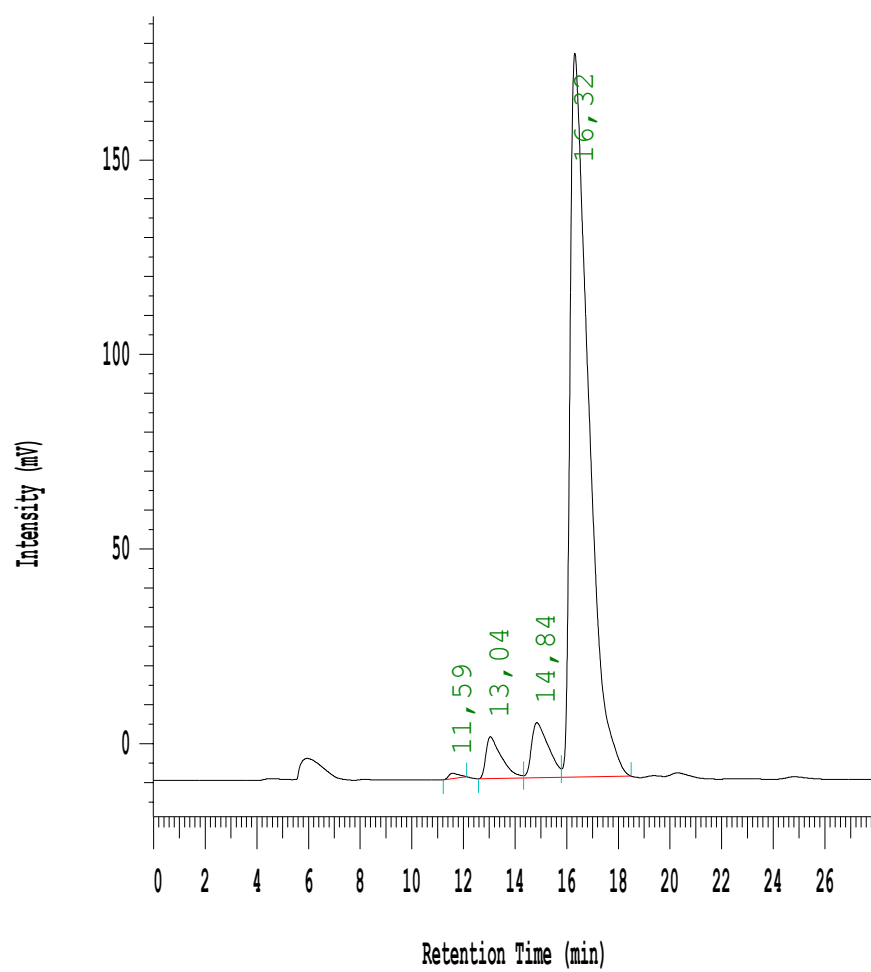


Figure S17. Chromatogram of the D.A. products **7** and **8** obtained from the same reaction that furnished the H.D.A. sample **9** of Fig. S15.