

Supporting Information

Vanillin-derived α,ω -diene monomer for Thermosets Preparation via Thiol-ene

Click polymerization

Zijun Gao,^a Yang You,^a Qin Chen,^{a*} Michael North^b and Haibo Xie^{a*}

^aDepartment of Polymeric Materials & Engineering, College of Materials & Metallurgy, Guizhou

University, Huaxi District, Guiyang 550025, P.R. China. E-mail: hbxic@gzu.edu.cn;

qchen6@gzu.edu.cn.

^bGreen Chemistry Centre of Excellence, Department of Chemistry, University of York, York, UK.

YO10 5DD.

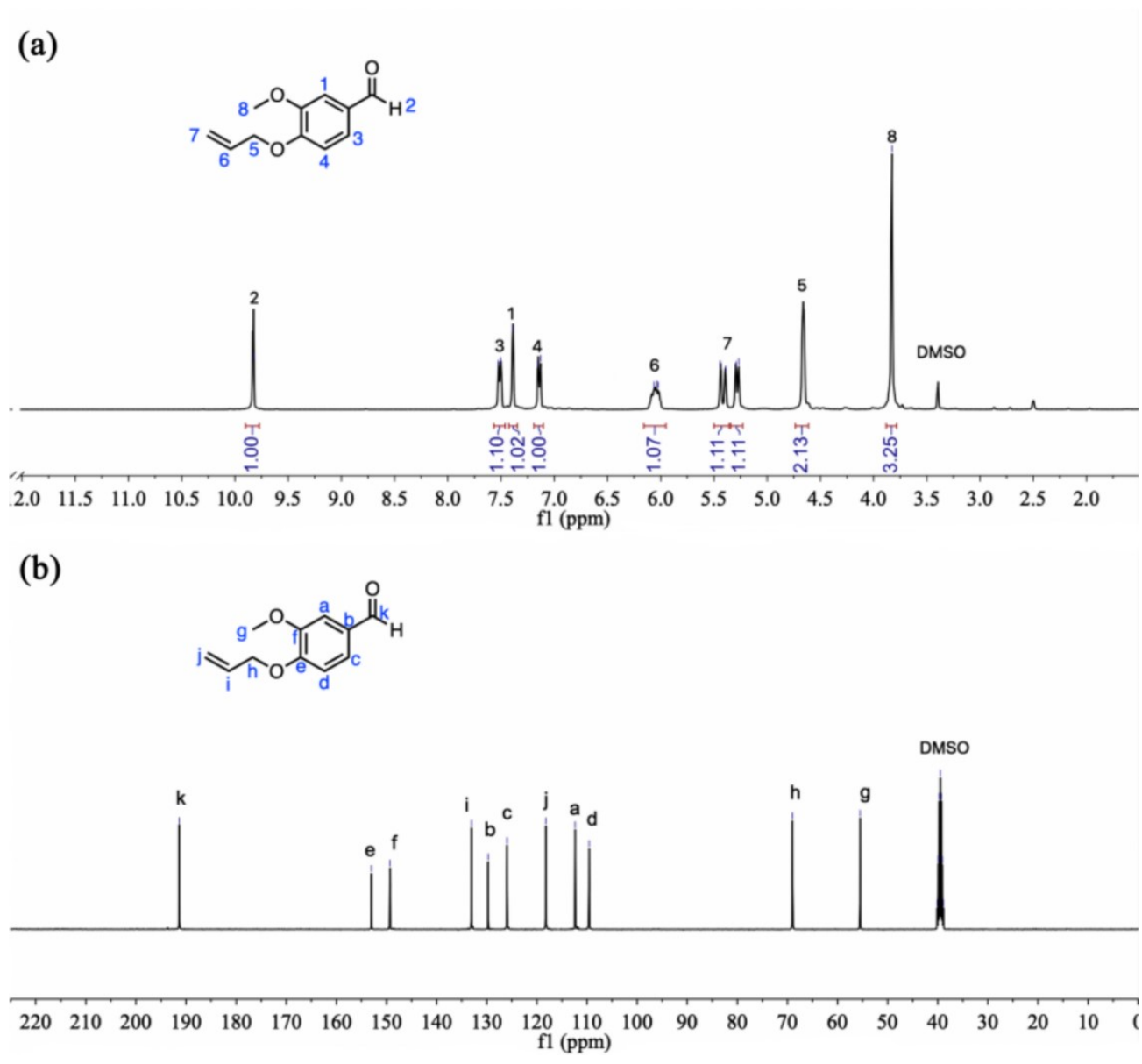


Fig. S1. ^1H NMR and ^{13}C NMR spectra of AM.

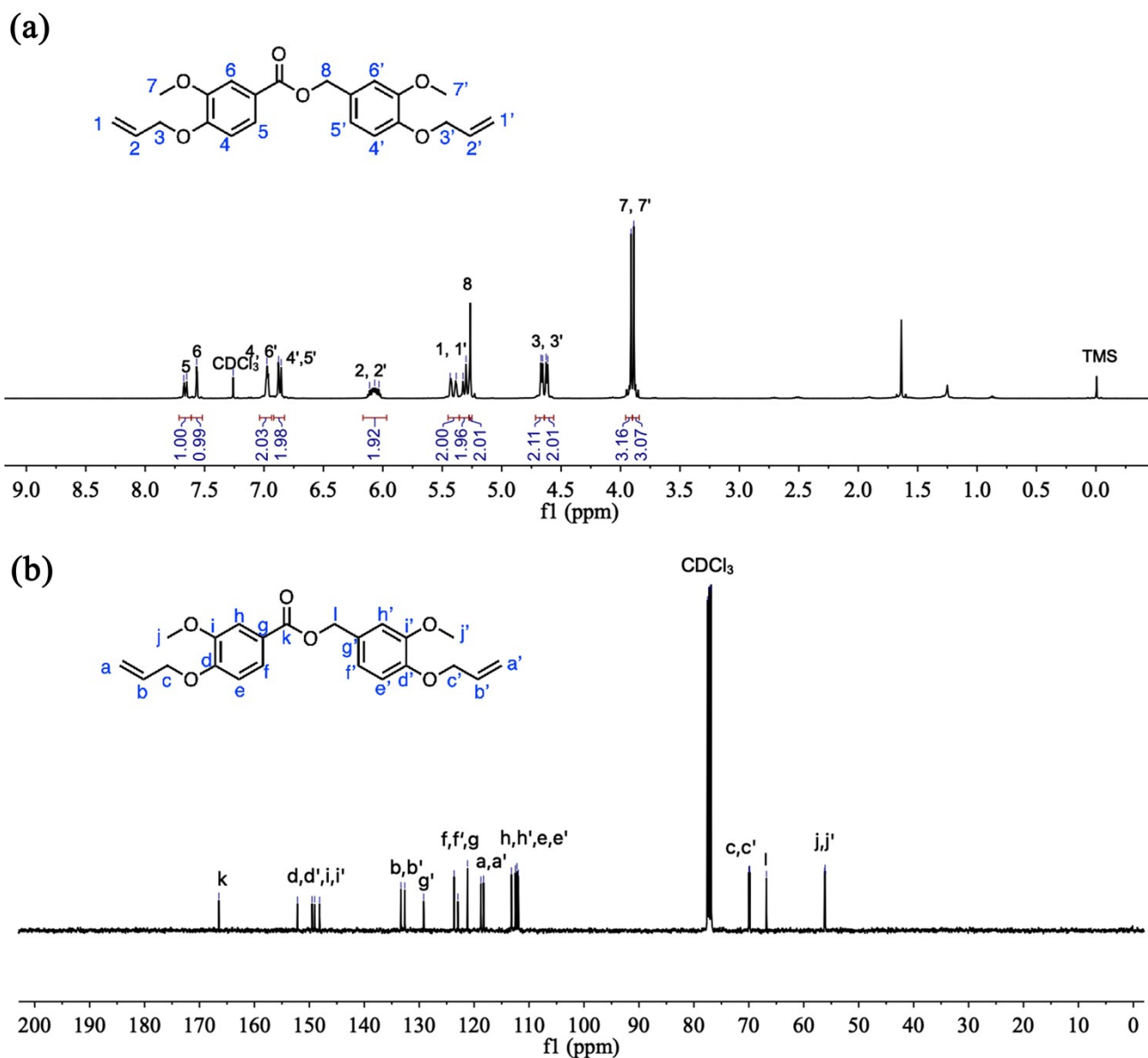
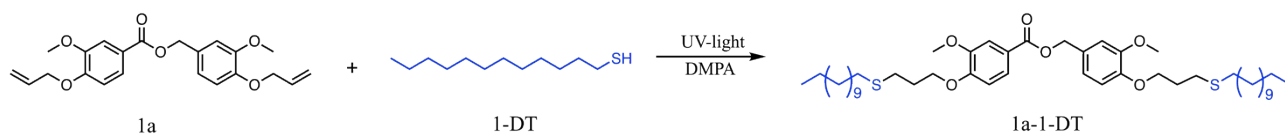


Fig. S2. ^1H NMR and ^{13}C NMR spectra of **1a**.



Scheme S1 Click reaction between **1a** and 1-dodecanethiol

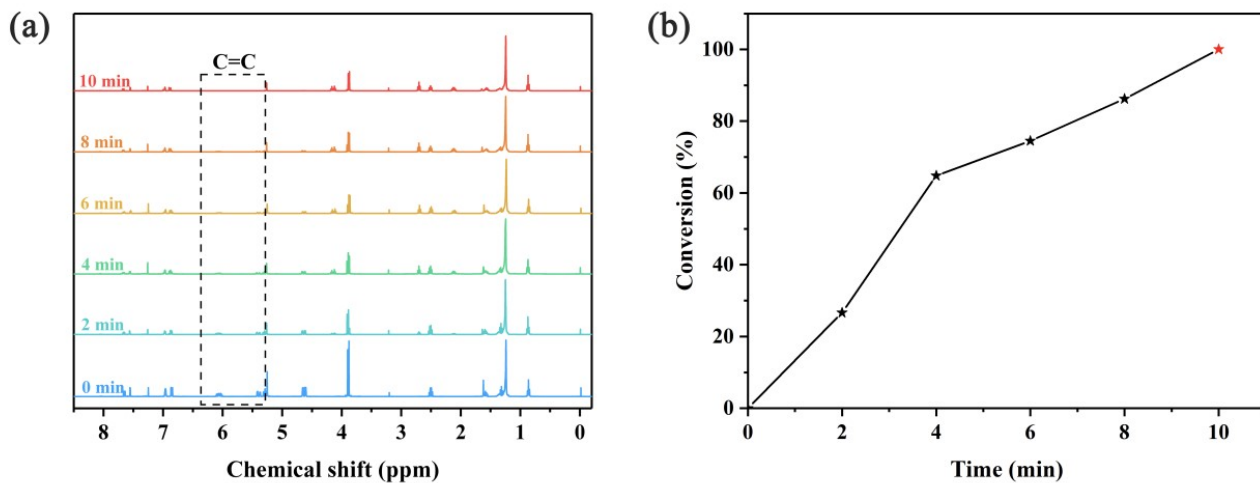


Fig. S3. (a) ¹H NMR spectra of the click reaction between **1a** and 1-DT every 2 minutes, and (b) the conversion of vinyl double bonds every 2 minutes under UV light.

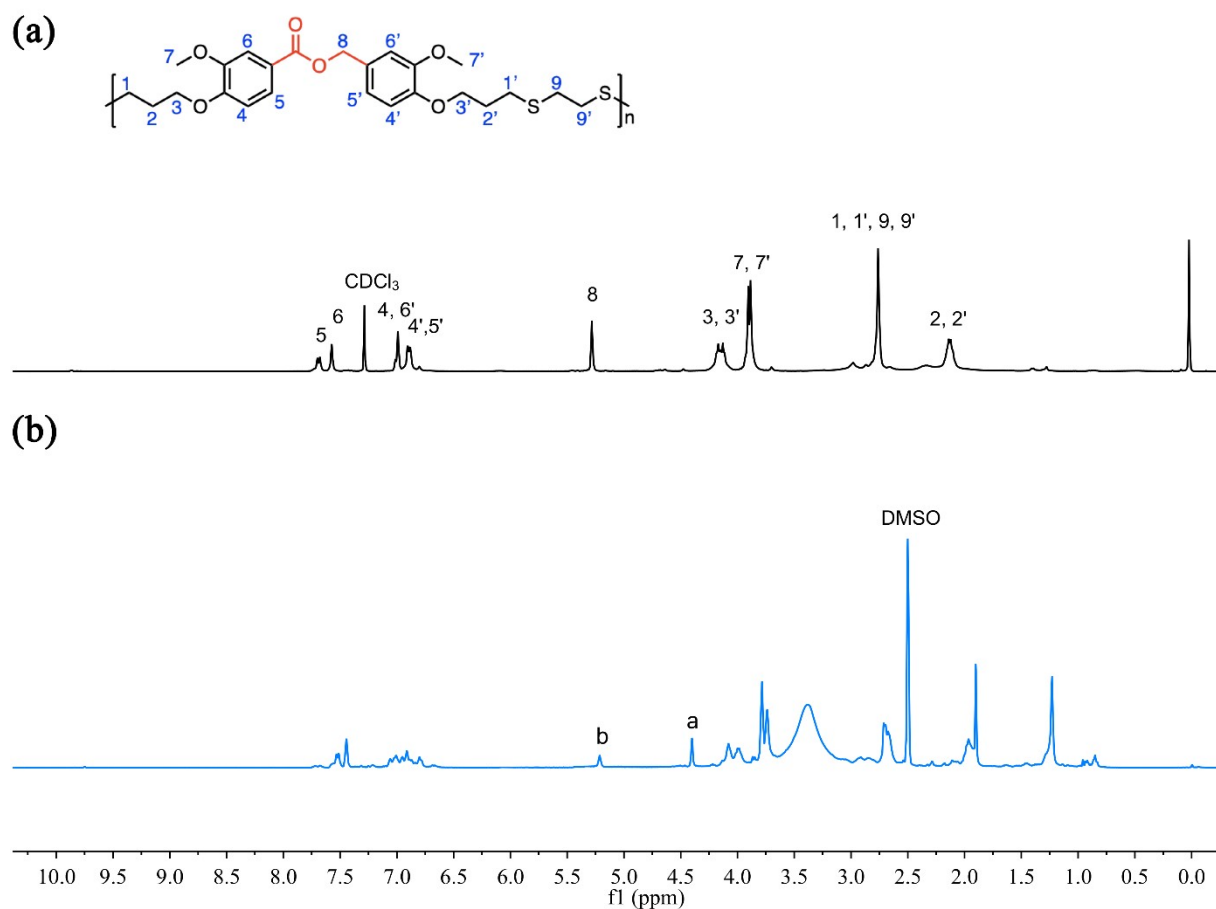


Fig. S4 Comparison of the ¹H NMR spectra of polyester before and after degradation in 1M NaOH: (a) before degradation, (b) after degradation.

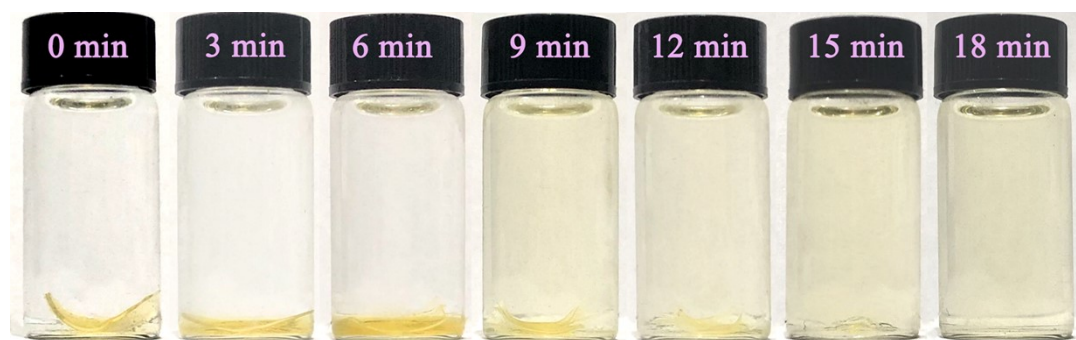


Fig. S5. Degradation of **P1a2d** in 1 M NaOH solutions (acetone/water = 5/5, v/v)