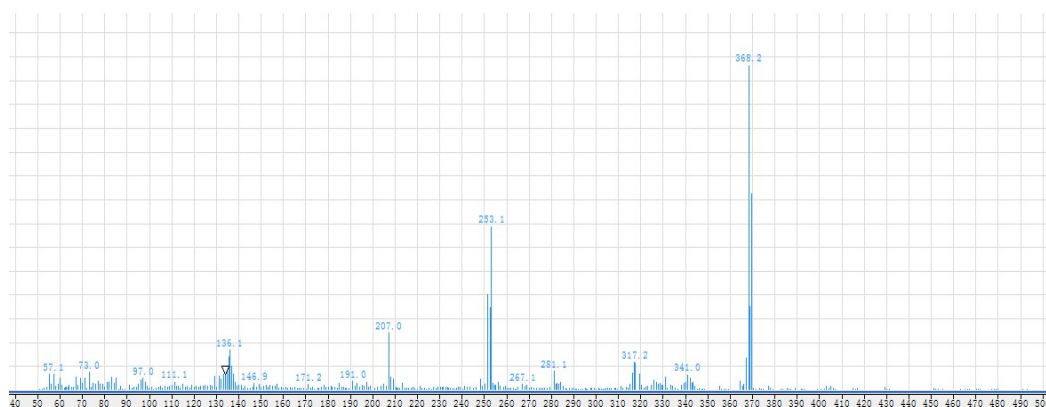
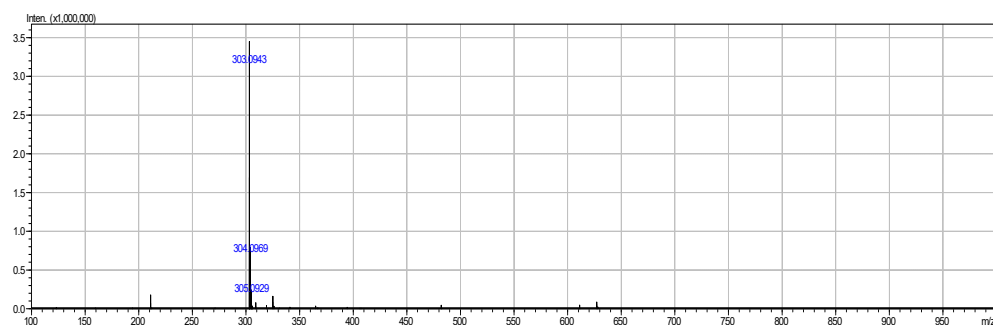


Catalytic polymerization of isoprene using a ultrahigh active iron(II) complex with *ortho*-modified 1,10-phenanthroline ligand: access to a thermal plastic rubber

Jiajia Ge, Binghui Chen, Dirong Gong*

Faculty of Materials Science and Chemical Engineering, Ningbo University, Ningbo 315211, P. R. China.

Corresponding to: gongdirong@nbu.edu.cn



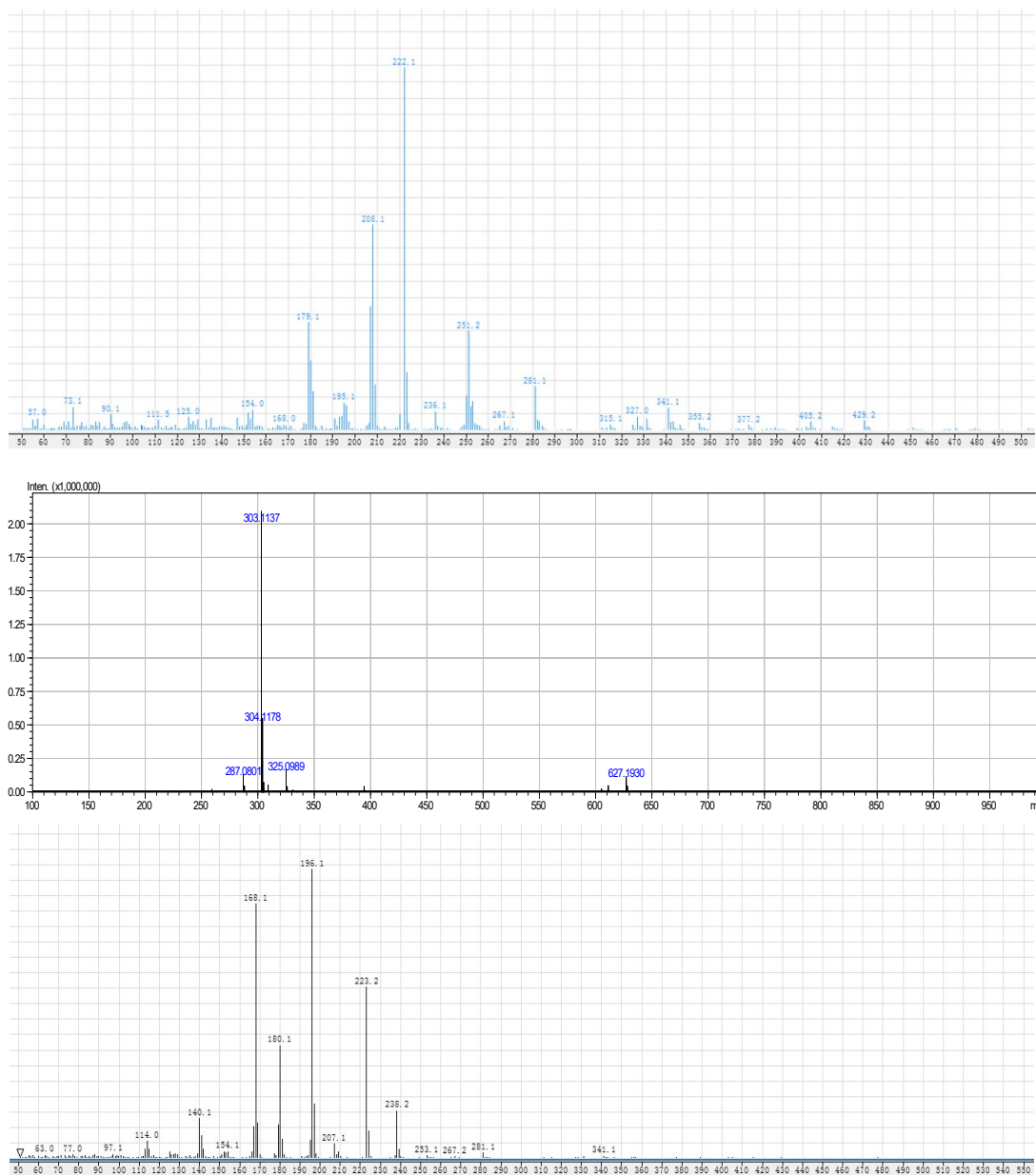


Fig. 1S The mass spectrometry of ligand L1-L6

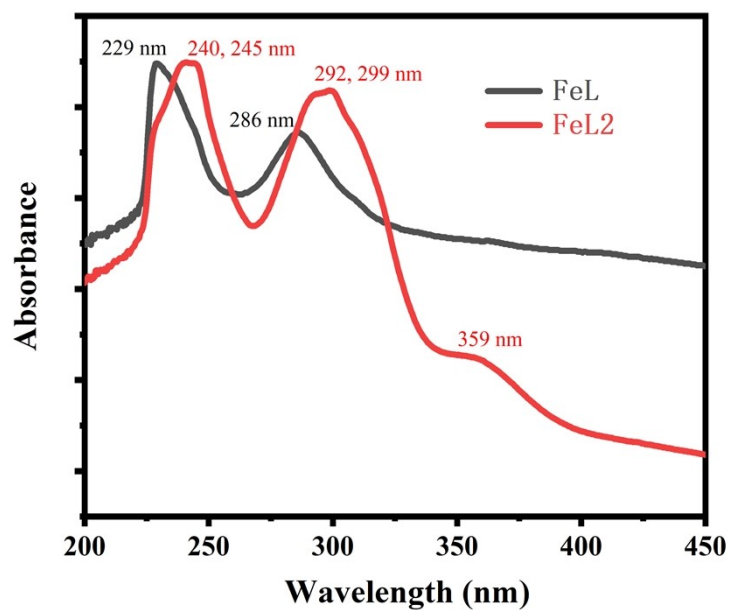


Fig. 2S The Uv-visible spectral comparison of FeL and FeL2 (L=L1)

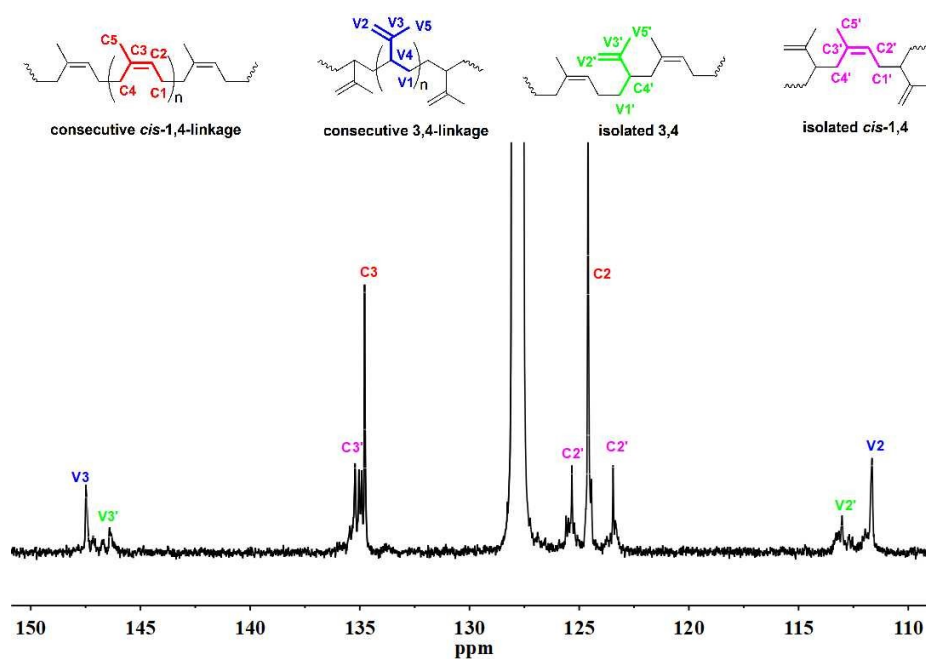


Fig. 3S Magnified ¹³C NMR spectral (olefinic part) of the polyisoprene (Run 3, 25°C, Table 2)

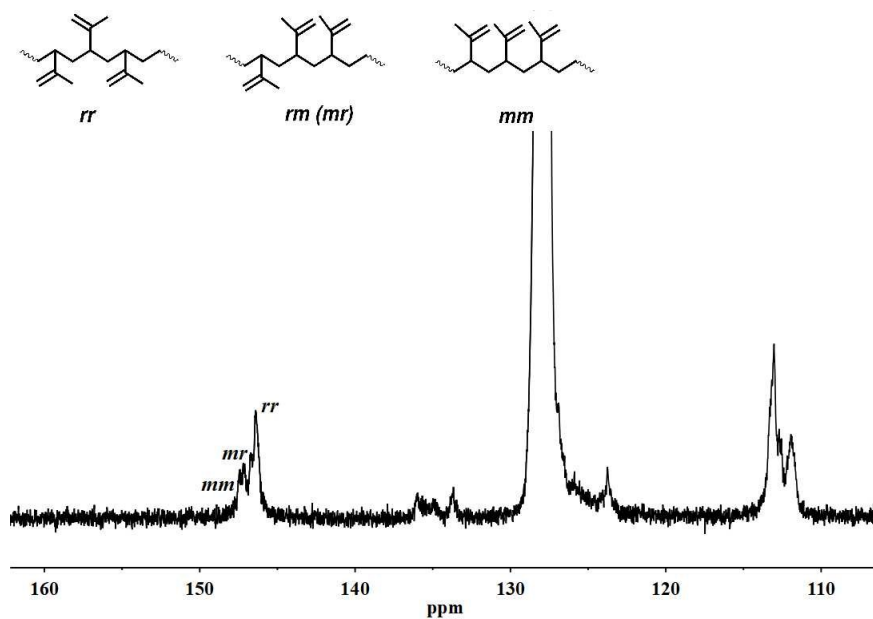


Fig. 4S Stereoregularity analysis of ^{13}C NMR spectral for the polyisoprene obtained at -40°C , run 3, Table 2)

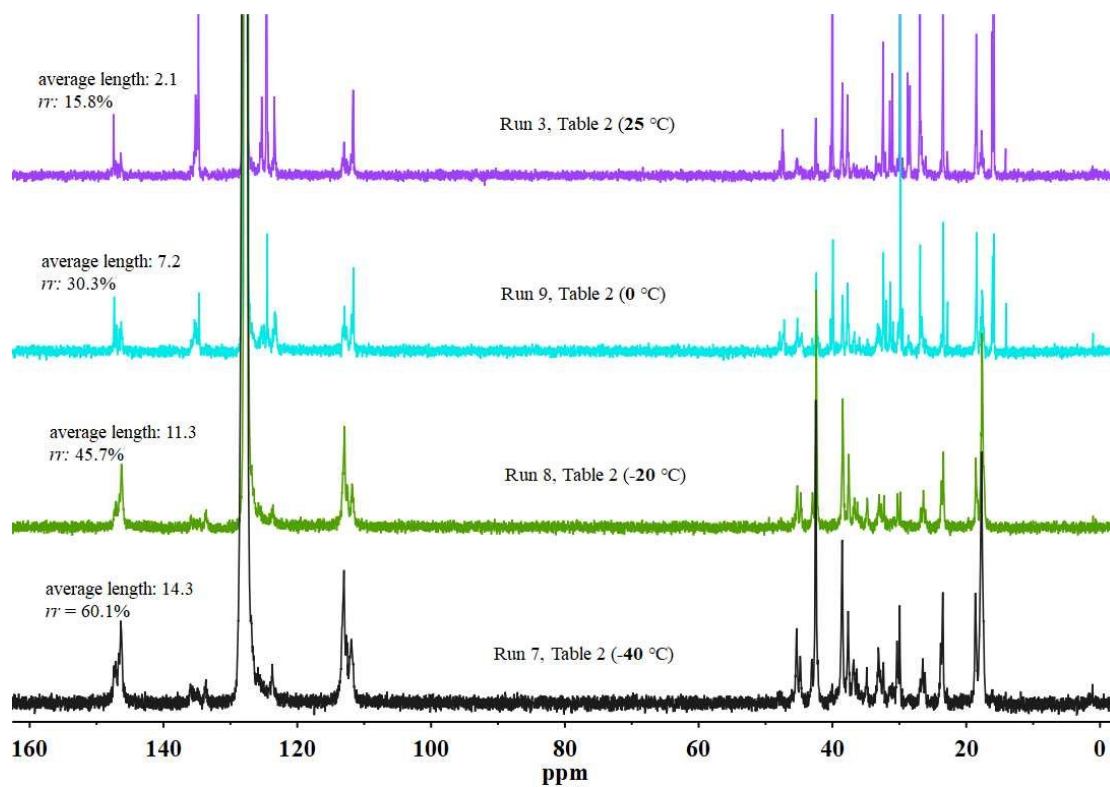


Fig. 5S The ^{13}C NMR of the polyisoprenes obtained from various temperatures (25°C , 0°C , -20°C and -40°C) as shown in Table 2

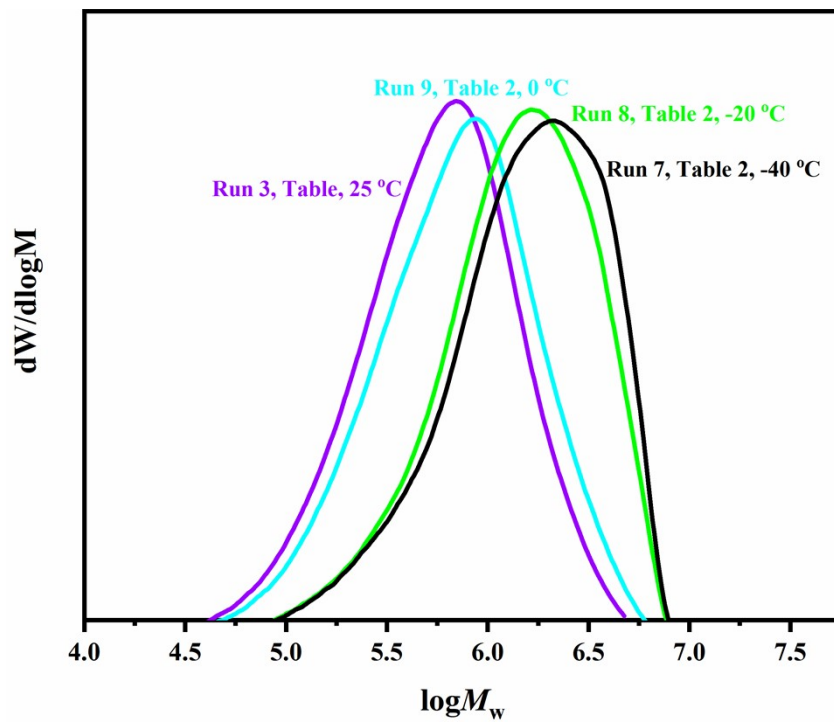


Fig.6S Molecular weight of the polyisoprenes obtained from various temperatures (25°C, 0°C, -20°C and -40°C) as shown in Table 2