Electronic Supplementary Information:

Further enhancement of macroscopic NLO coefficient of hyperbranched polymer by enhancing the degree of branching

Wenbo Wu,* and Zhen Li* 

Fig. S1 $^{13}$C NMR spectrum of AB$_4$-type monomer M1 in chloroform-$d$.

Fig. S2 $^{13}$C NMR spectrum of HP1 in chloroform-$d$. 

Fig. S3 $^{13}$C NMR spectrum of HP2 in chloroform-$d$.

Fig. S4 TGA thermograms of hyperbranched polymers, measured in nitrogen at a heating rate of 10 °C/min.
Fig. S5 UV-Vis spectra of HP1 in different solutions. (0.02 mg/mL).

Fig. S6 UV-Vis spectra of HP2 in different solutions. (0.02 mg/mL).
**Fig. S7** Absorption spectra of the film of **HP1** before and after poling.

**Fig. S8** Absorption spectra of the film of **HP2** before and after poling.
Fig. S9 Absorption spectra of the film of HPS1 before and after poling.