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Synthesis of Poly(arylene ether amine)s from a Monomer Containing an Electron-Donating Amine Group in a Nucleophilic Aromatic Substitution Reaction

*Mong Sup Lee, Sang Youl Kim**

Center for Advanced Functional Polymers, Department of Chemistry and School of Molecular Science (BK21), Korea Advanced Institute of Science and Technology, 373-1, Guseong-dong, Yuseong-gu, Daejeon 305-701, Korea

Fax: (+82) 42-869-2810; e-mail kimsy@kaist.ac.kr.

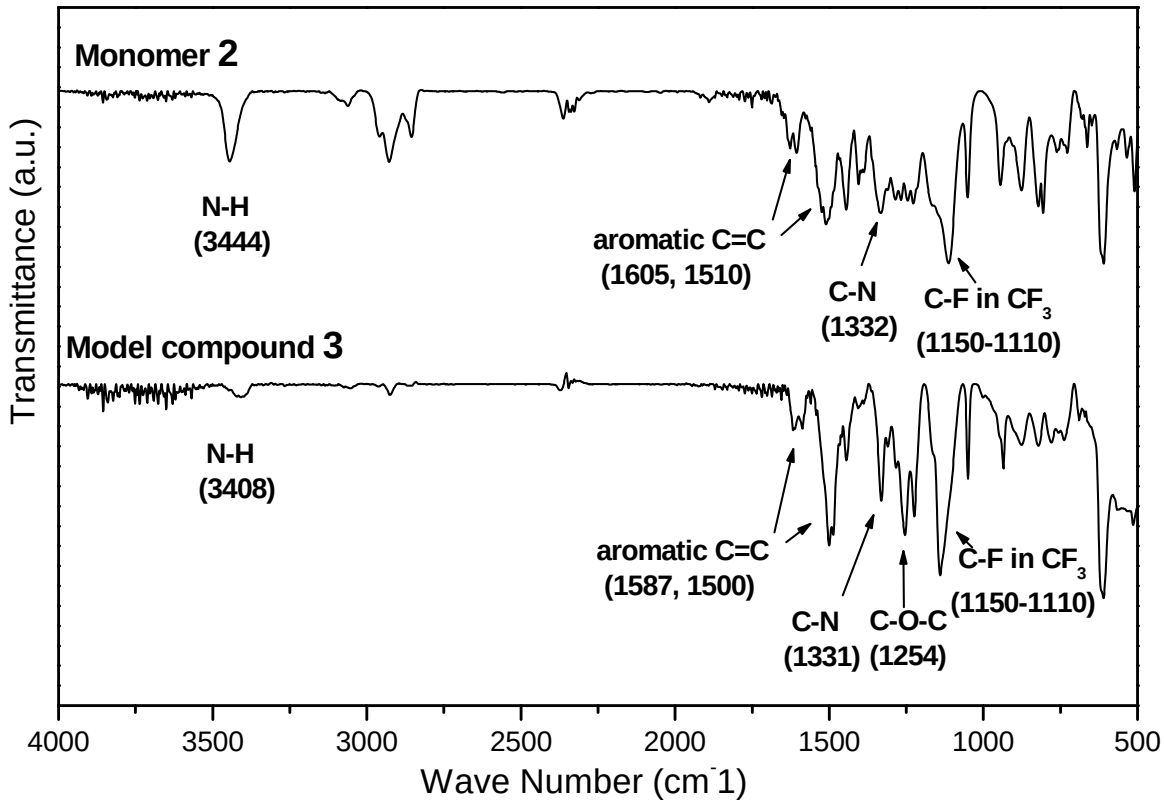

Figure S1. FTIR spectra of the monomer **2** and the model compound **3**.

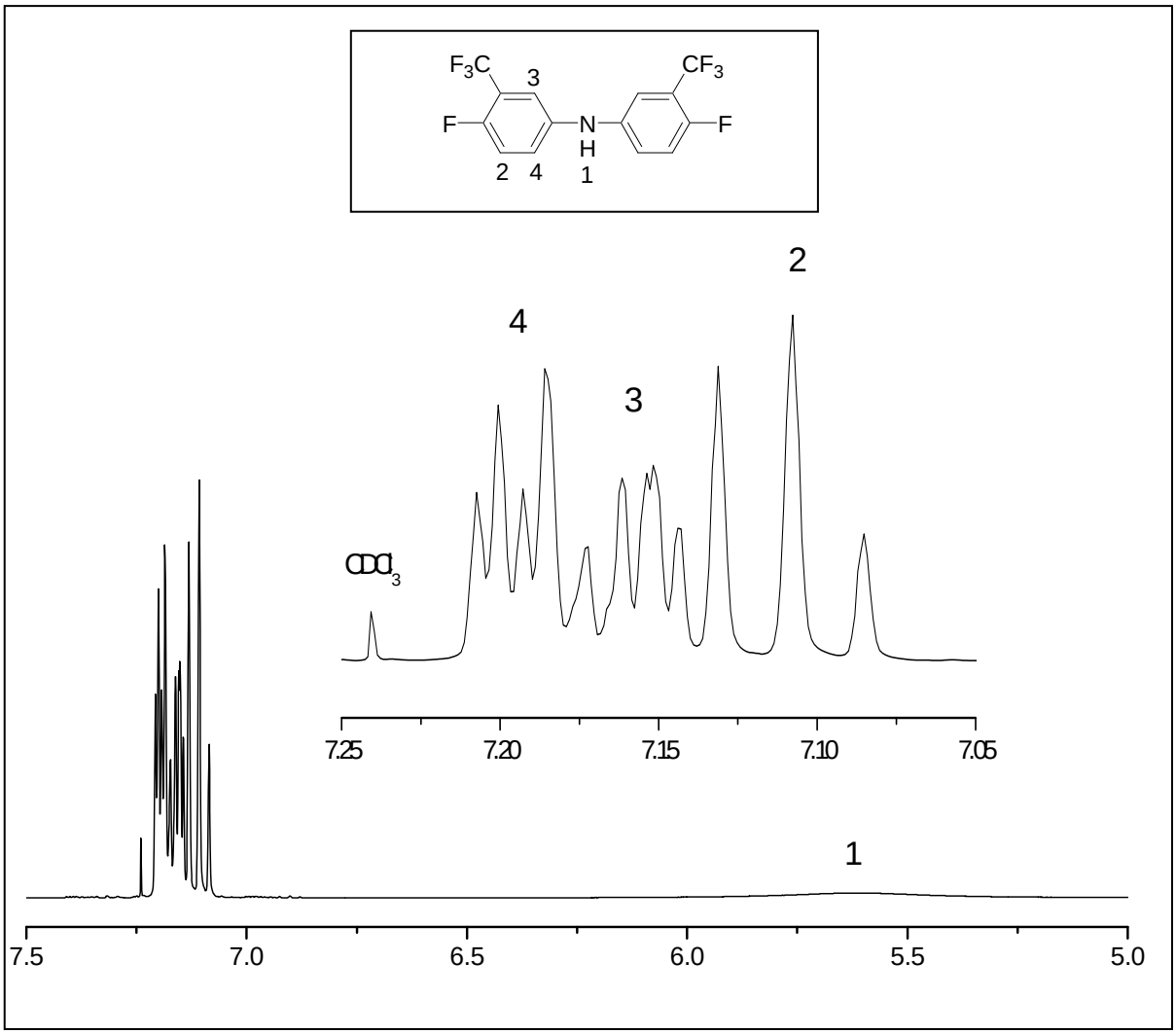

Figure S2.^{1}H NMR spectrum of the monomer **2** (400 MHz, in $CDCl_3$).

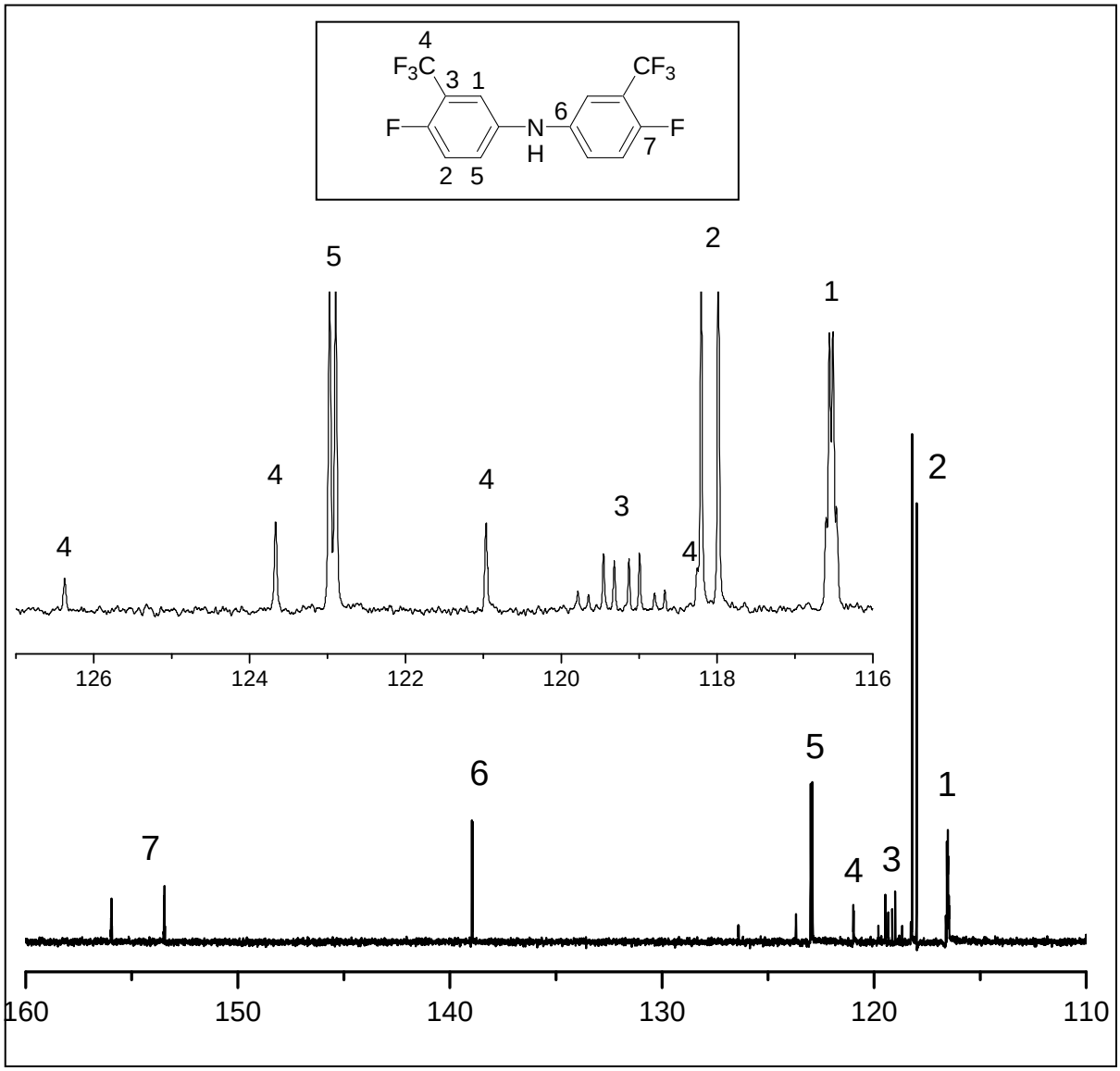

Figure S3.^{13}C NMR spectrum of the model compound **2** (100 MHz, in $CDCl_3$).

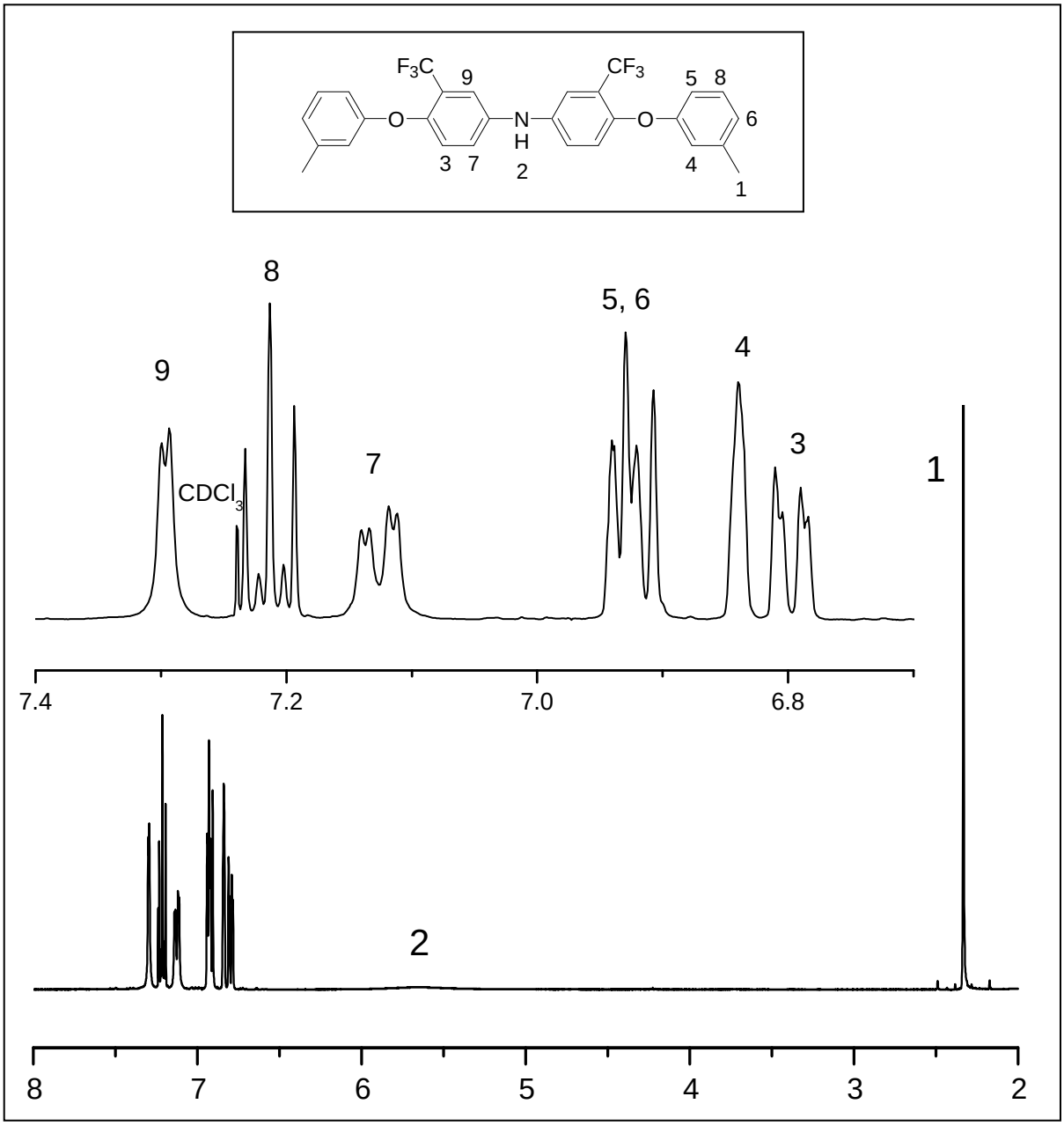

Figure S4.[1]H NMR spectrum of the model compound **3** (400 MHz, in $CDCl_3$).

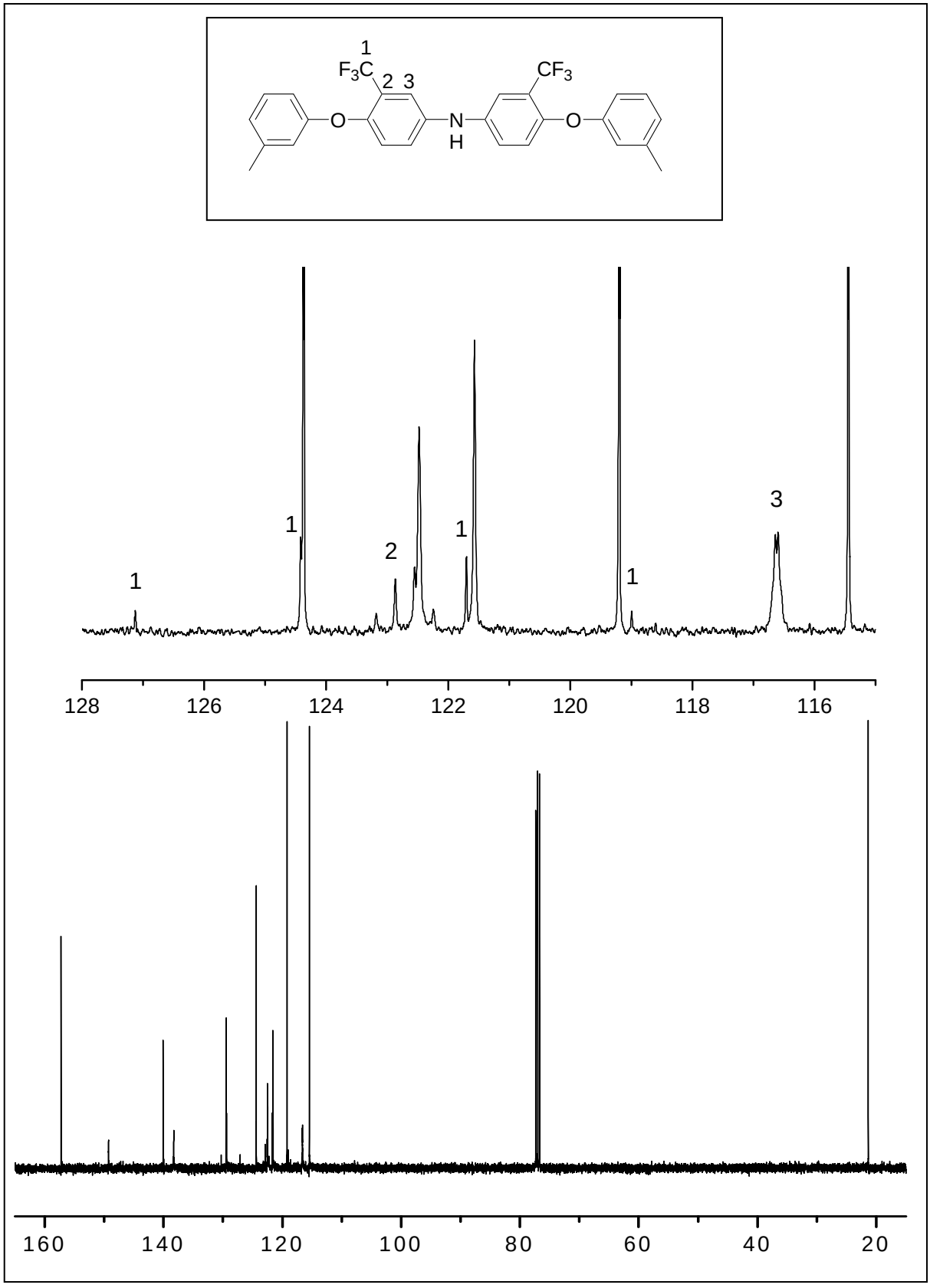

Figure S5.^{13}C NMR spectrum of the model compound **3** (100 MHz, in $CDCl_3$).

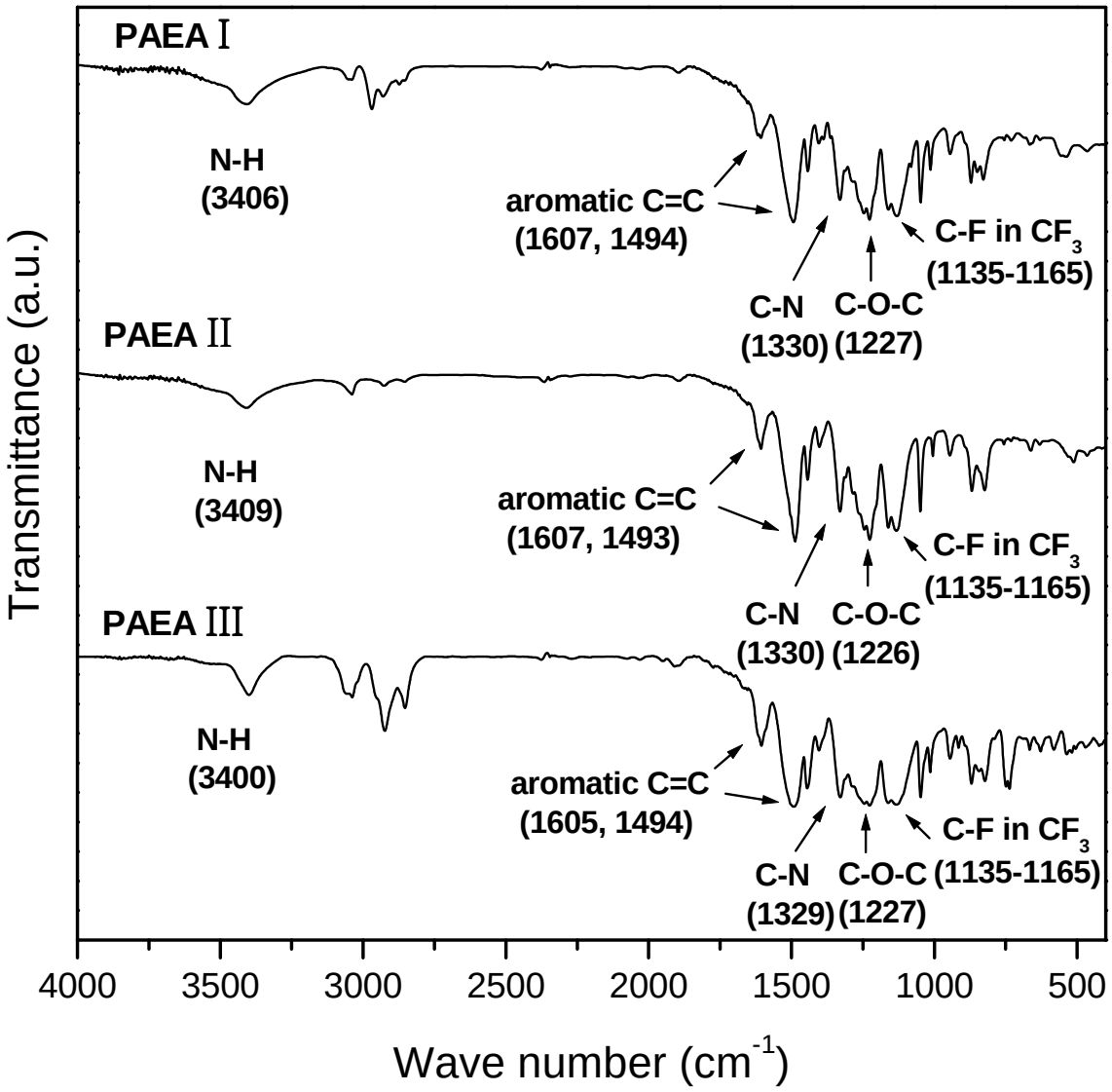

Figure S6. FTIR spectra of the polymers.

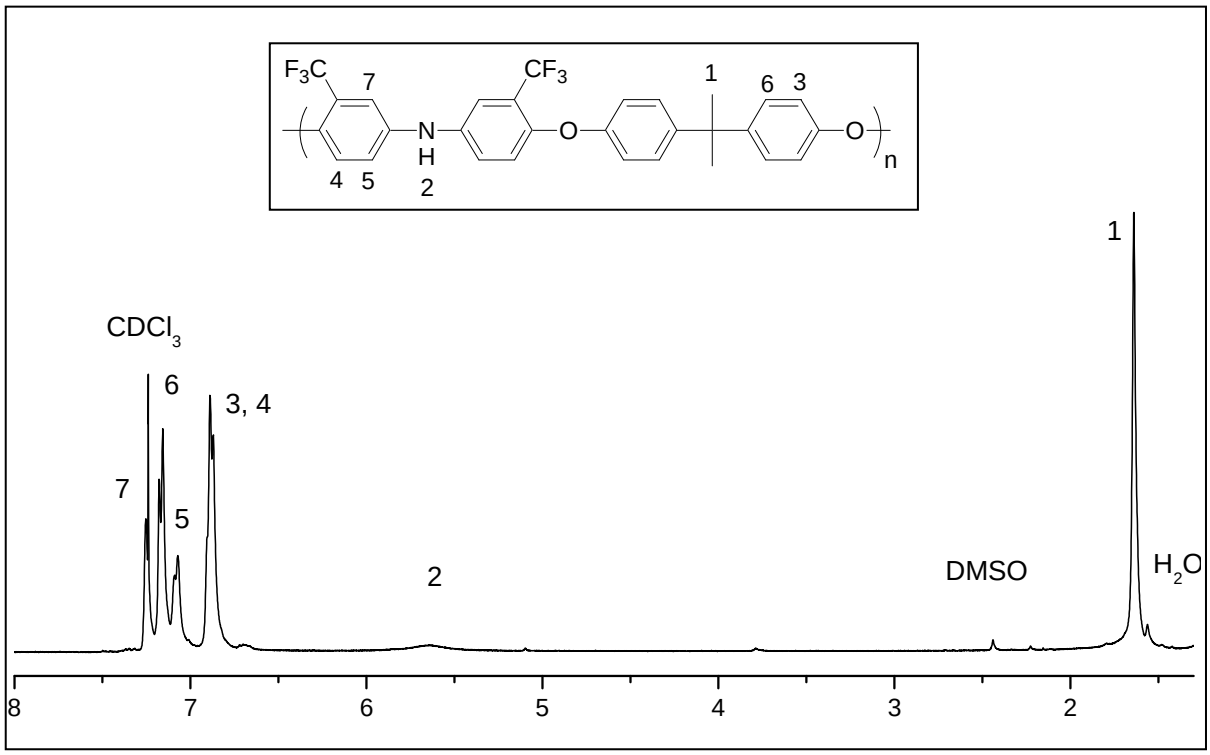

Figure S7.^{1}H NMR spectrum of **PAEA I** (400 MHz, in $CDCl_3$).

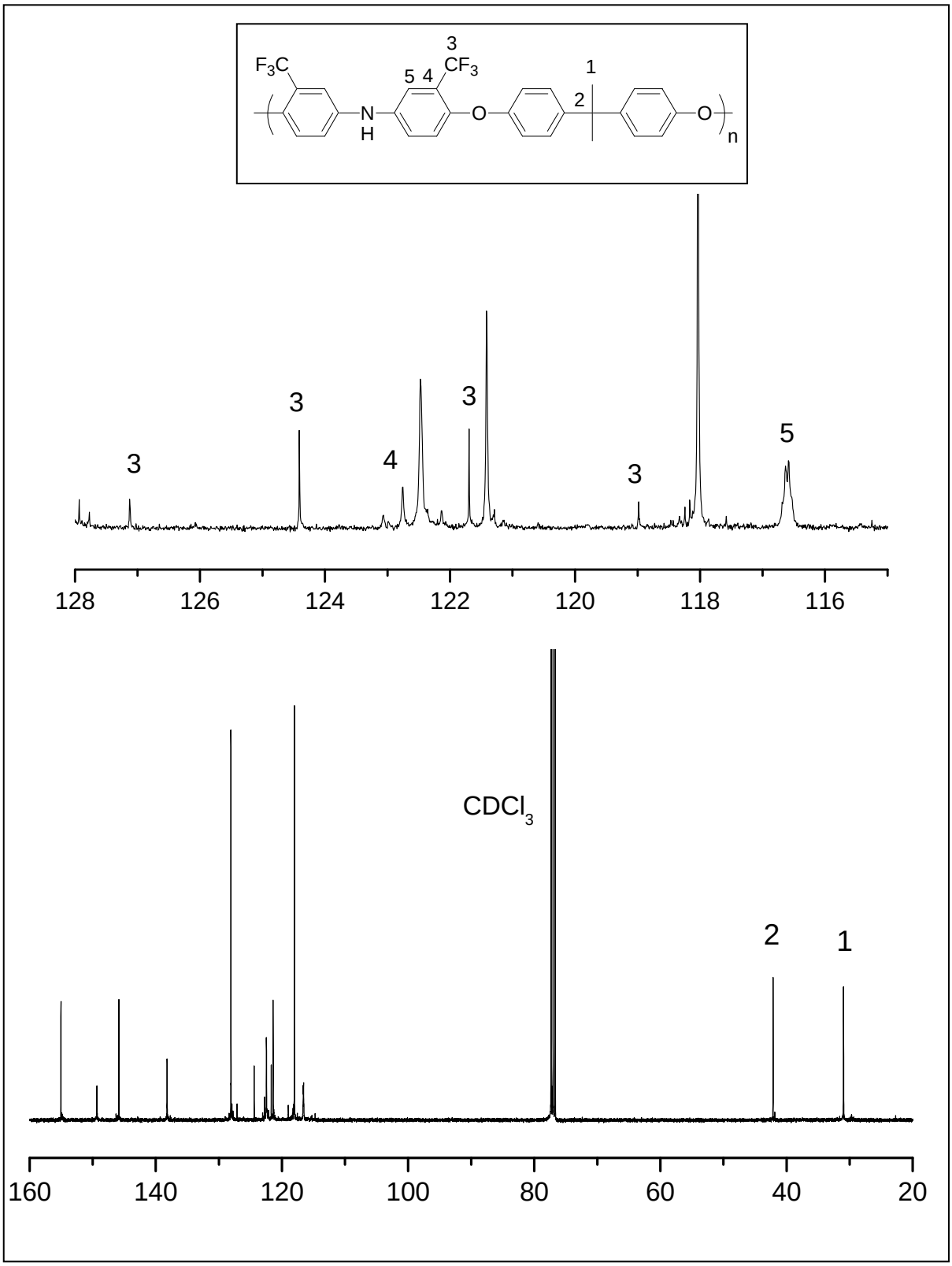

Figure S8.^{13}C NMR spectrum of **PAEA I** (100 MHz, in $CDCl_3$).

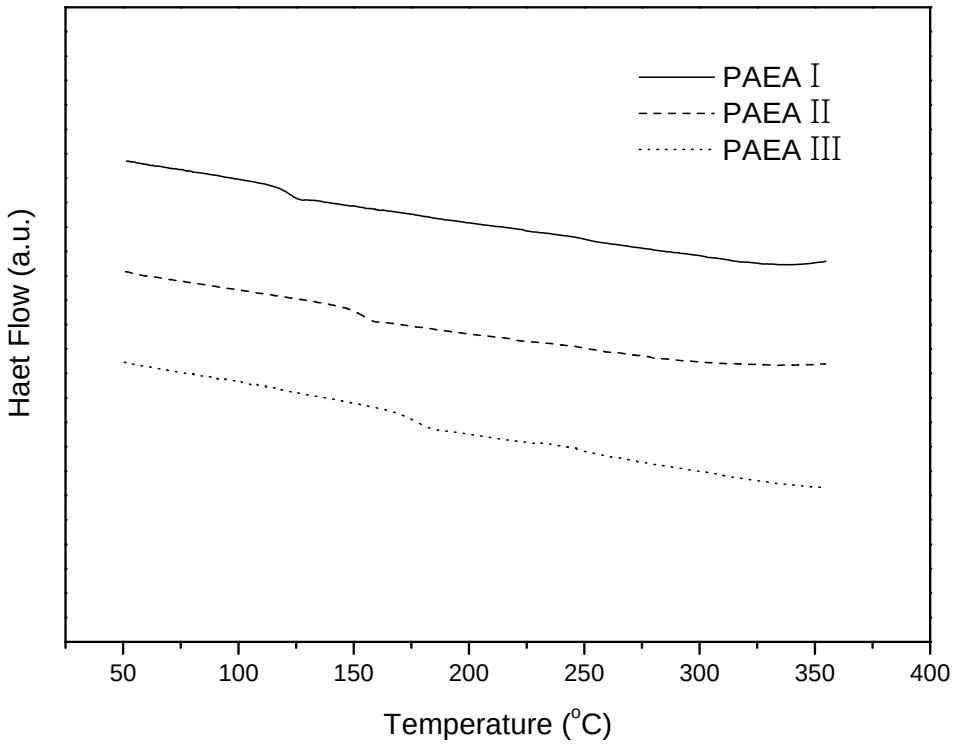

Figure S9. DSC curves of the polymers (heating rate: 10 °C/min).

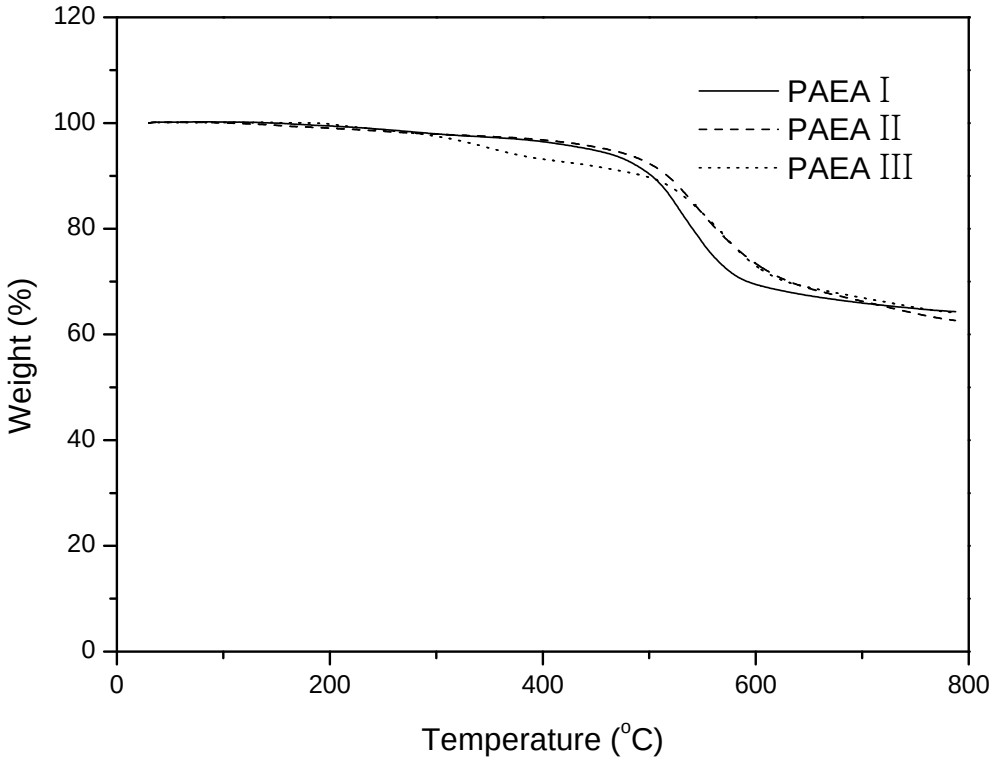

Figure S10. TGA curves of the polymers (heating rate: 10 °C/min).