Electronic Supplementary Material (ESI) for Polymer Chemistry

Supporting Information

Synthesis of high-refractive-index and low-birefringence acrylate polymers with a tetraphenylethane skeleton in the side chain

Yusuke Tojo, Yuki Arakawa, Junji Watanabe, and Gen-ichi Konishi*

Department of Organic and Polymeric Materials, Tokyo Institute of Technology, O-okayama, Tokyo 152-8552, Japan

E-mail: konishi.g.aa@m.titech.ac.jp

Table of contents

1. Schemes

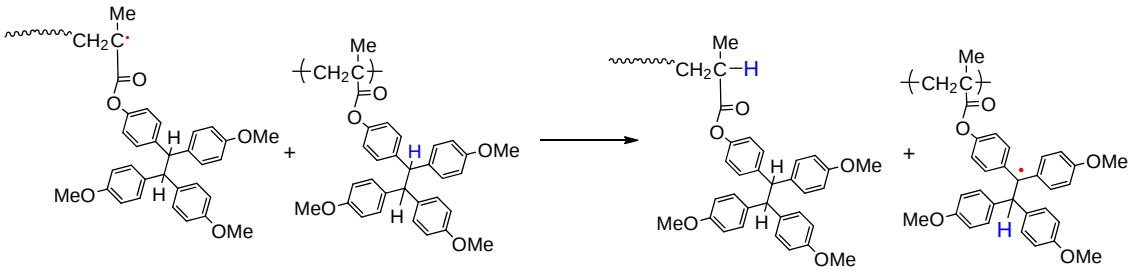

Figure S1

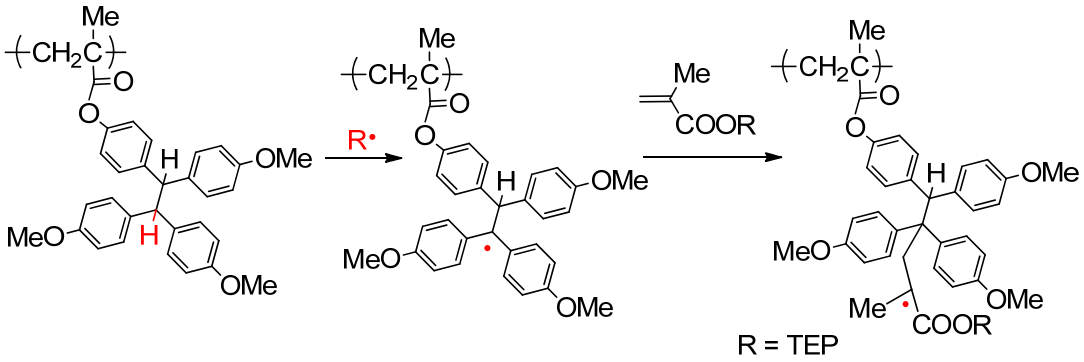

Figure S2

2. ^{1}H NMR spectra

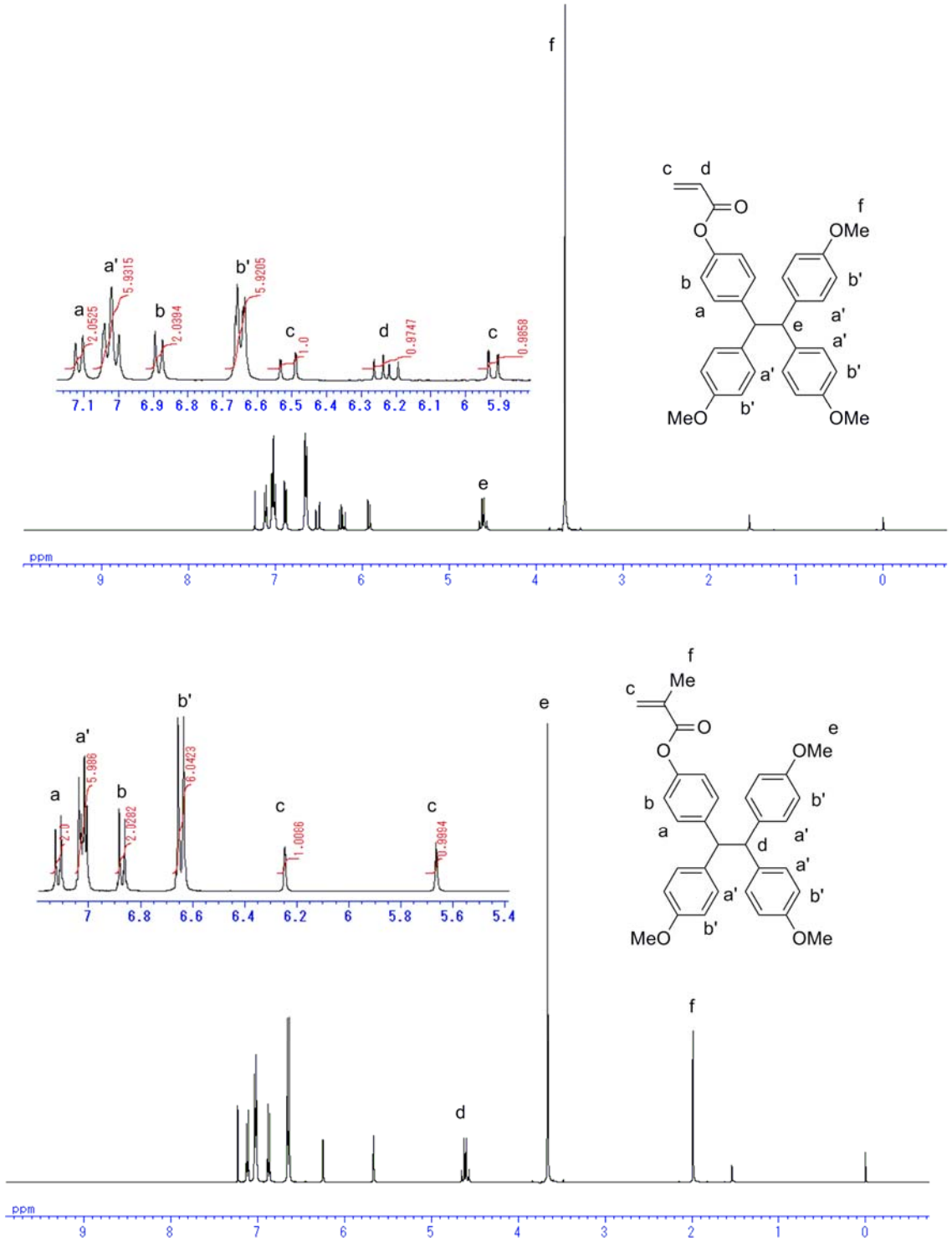

Figure S1. ^{1}H NMR spectra of **monomers 1** and **2**.

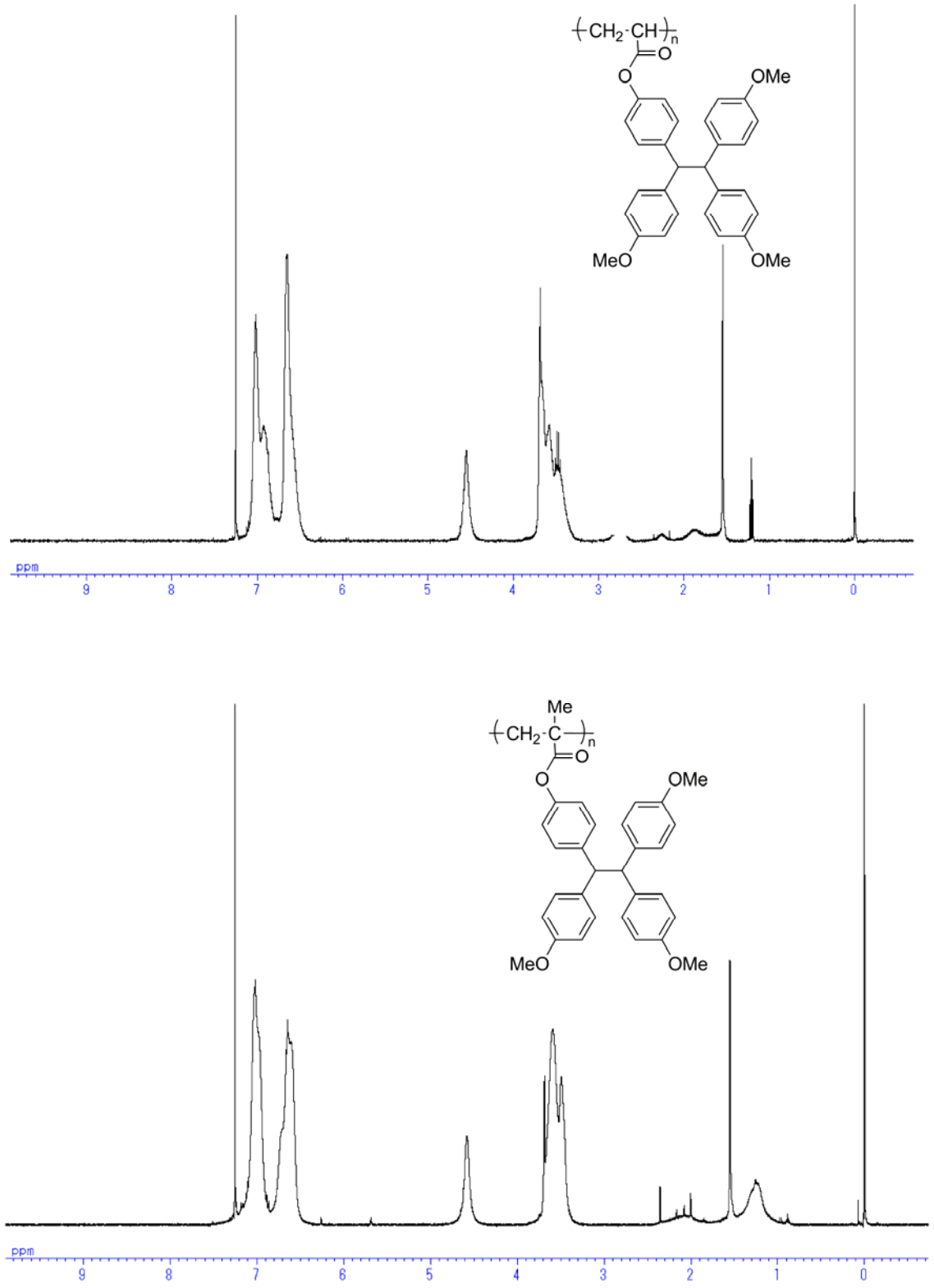

Figure S2. ^{1}H NMR spectra of **polymers 1** and **2**.

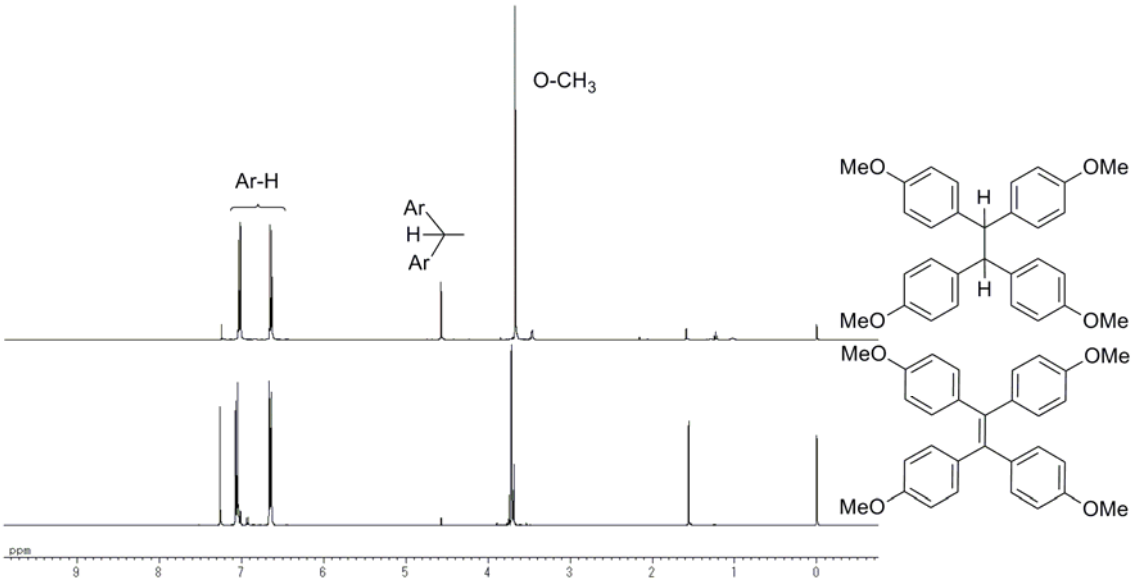

Figure S3. ^{1}H NMR spectra of 1,1′,2,2′-tetrakis(*p*-methoxy)ethane and 1,1′,2,2′-tetrakis(*p*-methoxy)ethene.

3. ^{13}C NMR spectra

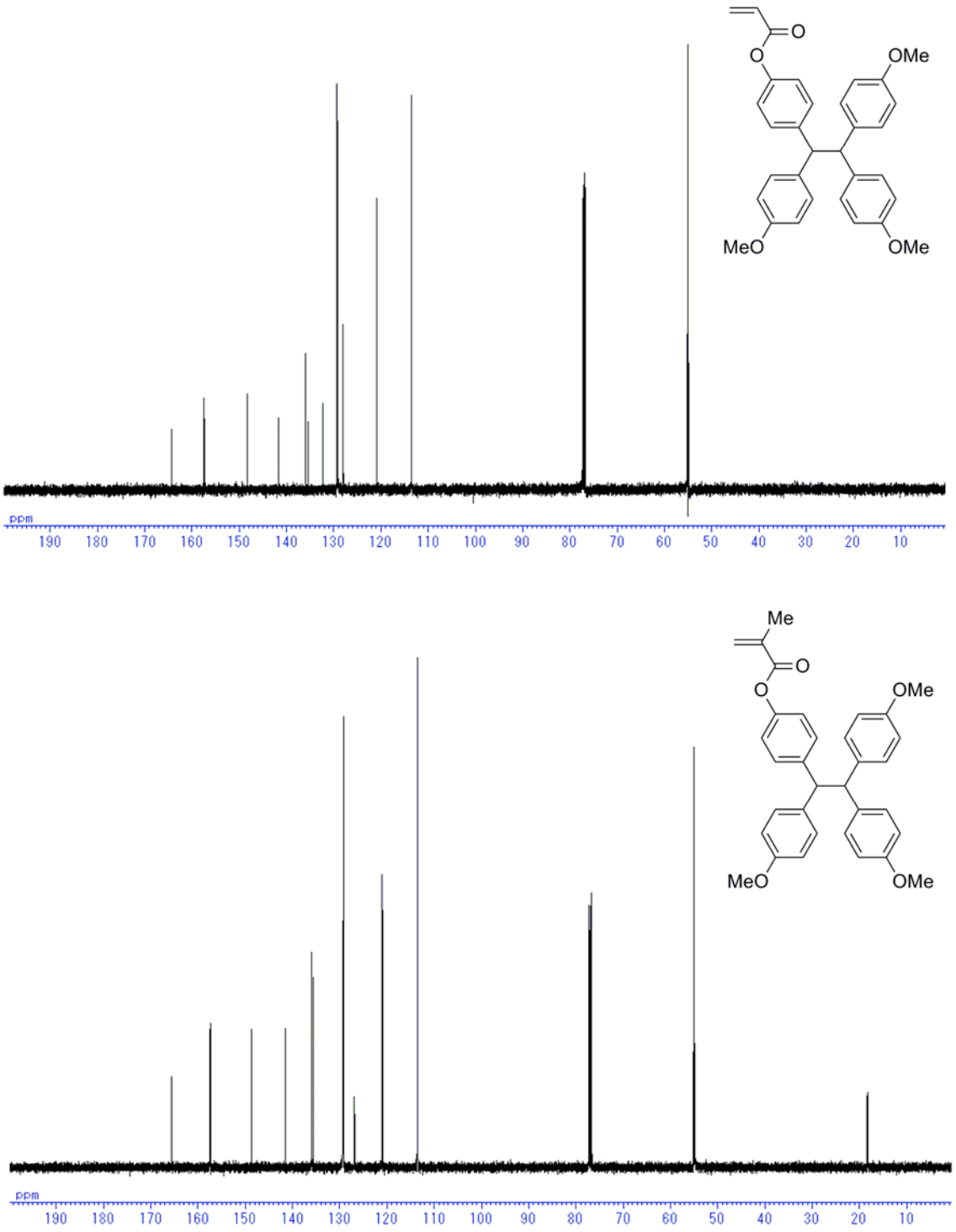

Figure S4. ^{13}C NMR spectra of **monomers 1** and **2**.

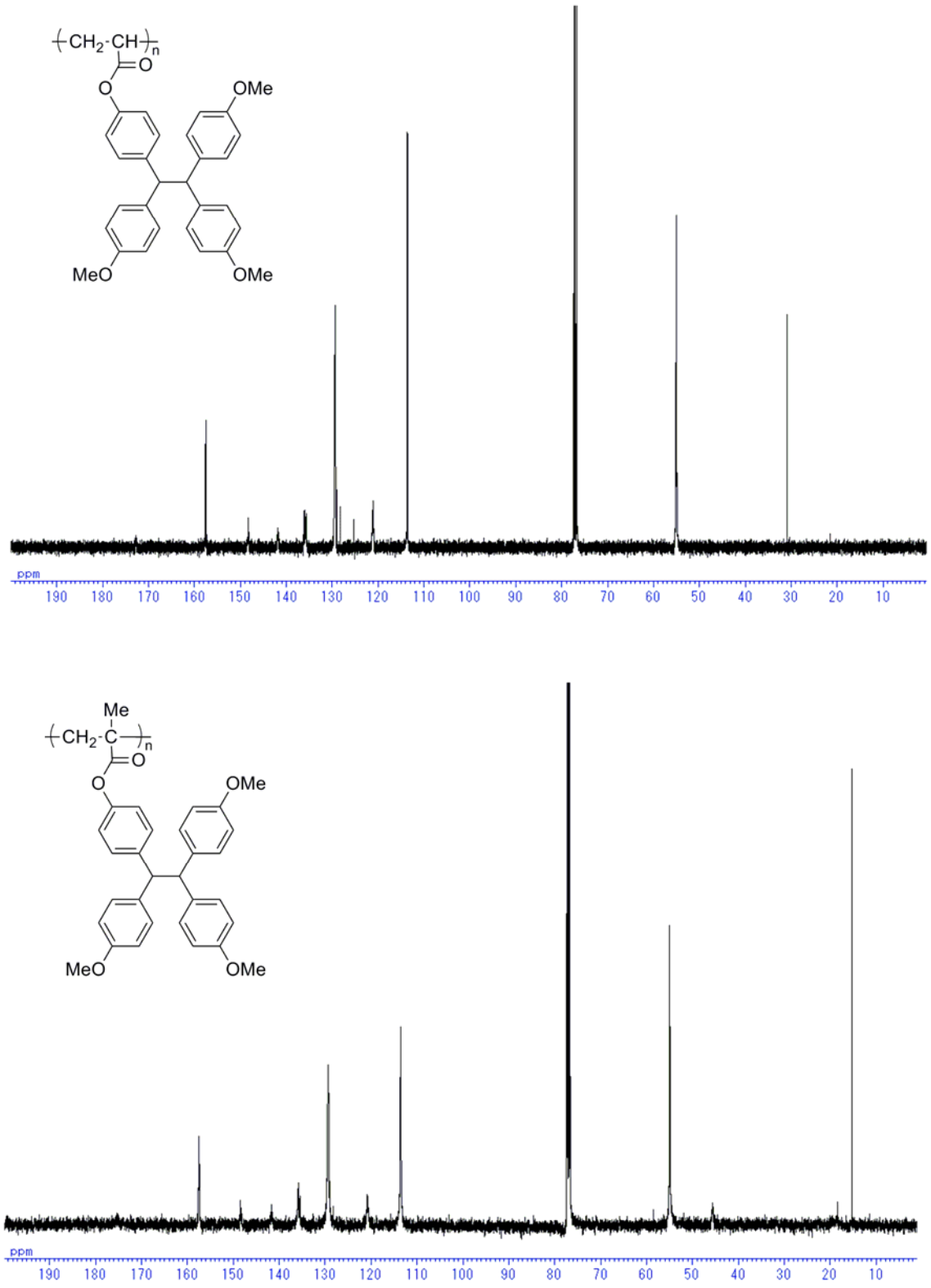

Figure S5. ^{13}C NMR spectra of **polymers 1** and **2**.

4. FT-IR spectra

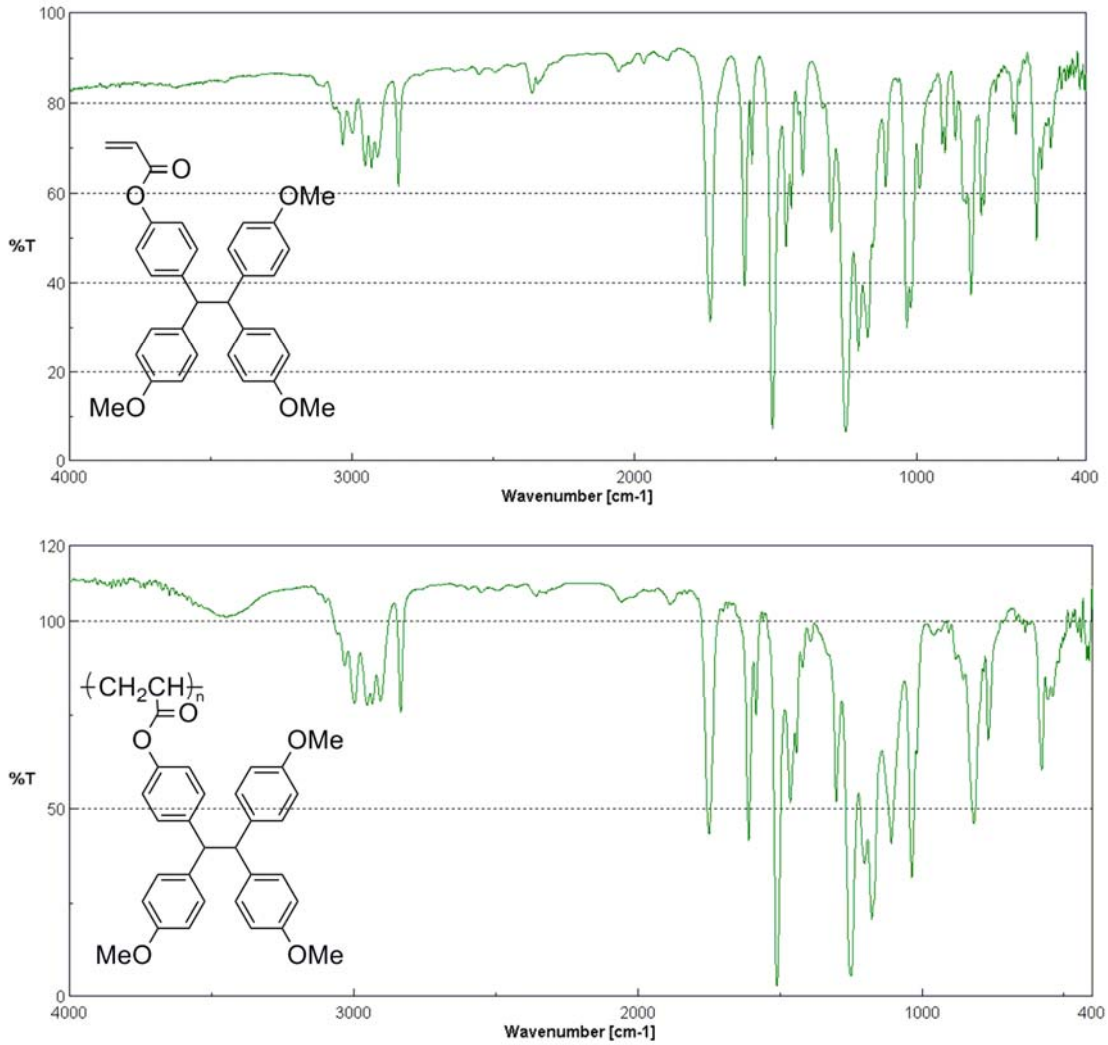

Figure S6. FT-IR spectra of **monomer 1** and **polymer 1**.

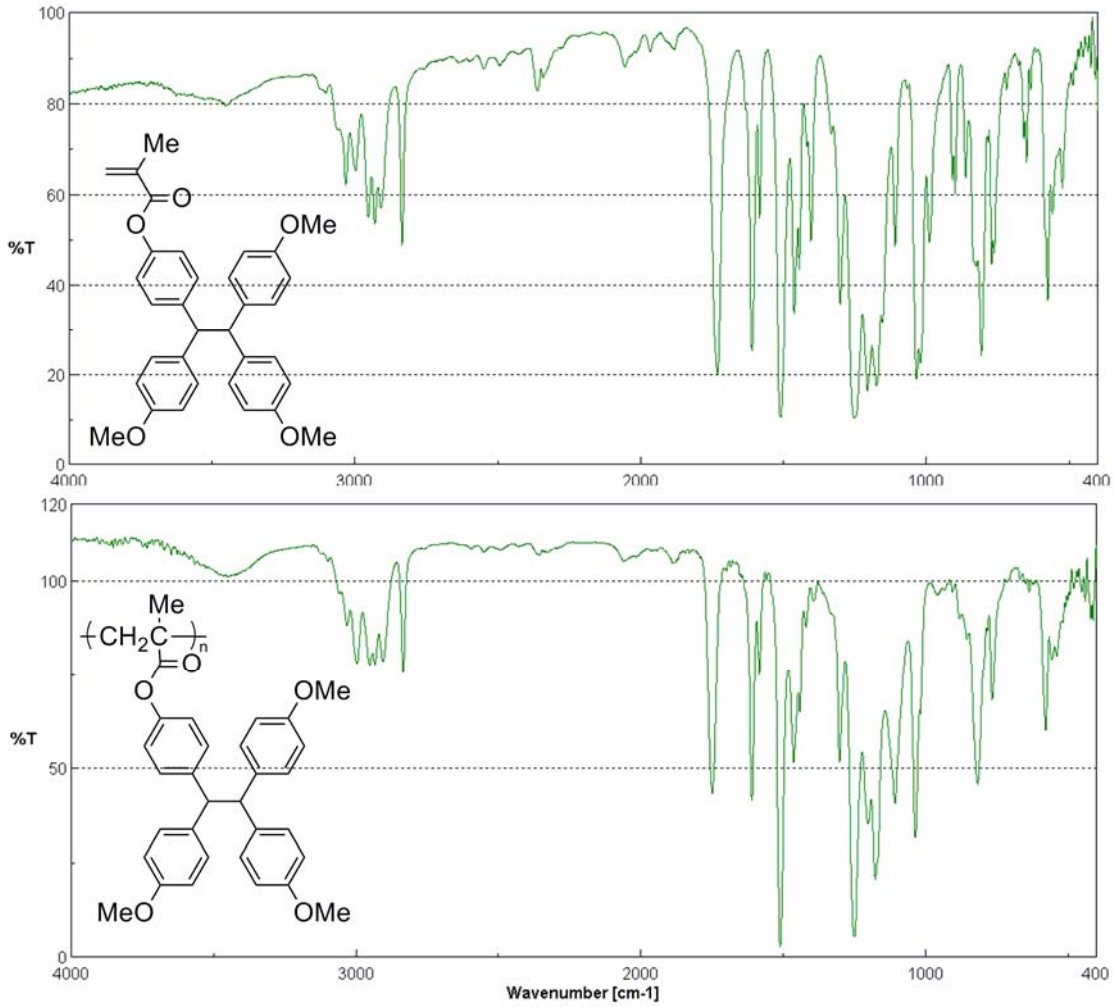

Figure S7. FT-IR spectra of **monomer 2** and **polymer 2**.

5. DSC

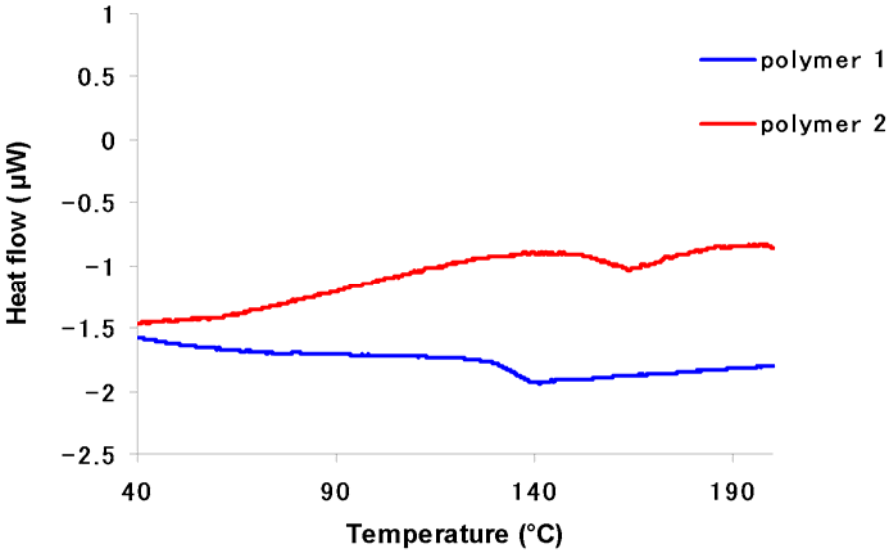

Figure S8. DSC curves of **polymers 1** and **2** (heating rate of 10 °C/min under a nitrogen atmosphere).

6. TGA

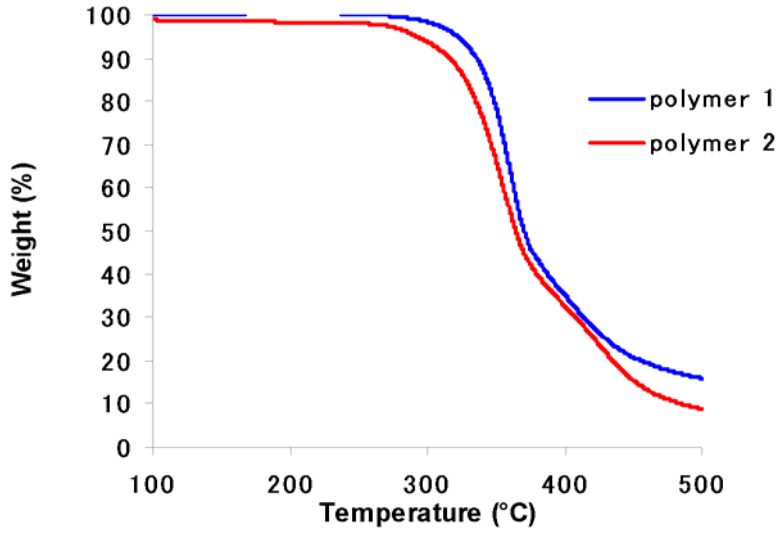

Figure S9. TG analysis of **polymers 1** and **2** (heating rate of 10 °C/min under a nitrogen atmosphere).