Supplementary Information for

Renewable polyesters derived from 10-undecenoic acid and vanillic acid with versatile properties

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Figure S1. Stacked $^1$H NMR spectra of M1-4
Figure S2. Stacked $^1$H NMR spectra of M5 and M6

Figure S3. $^{13}$C NMR spectra of M1

Figure S4. $^{13}$C NMR spectra of M2
Figure S5. $^{13}$C NMR spectra of M3

Figure S6. $^{13}$C NMR spectra of M4

Figure S7. $^{13}$C NMR spectra of M5
Figure S8. $^{13}$C NMR spectra of M6

Figure S9. $^1$H NMR spectra of PE2, PE3

Figure S10. $^1$H NMR spectra of PE4, PE6
Figure S11. FTIR of spectra of PE1, PE3, PE4, PE7

Figure S12. TGA curves of PE2, PE3 and PE5 at a heating rate of 10 °C min⁻¹

Figure S13. SEC traces of selected synthesized PE1 and PE4
**Figure S14.** Detailed structures of PEs 1-7.