

## Supplementary Information

Figure S1.  $^1\text{H}$  NMR spectra of compound 2

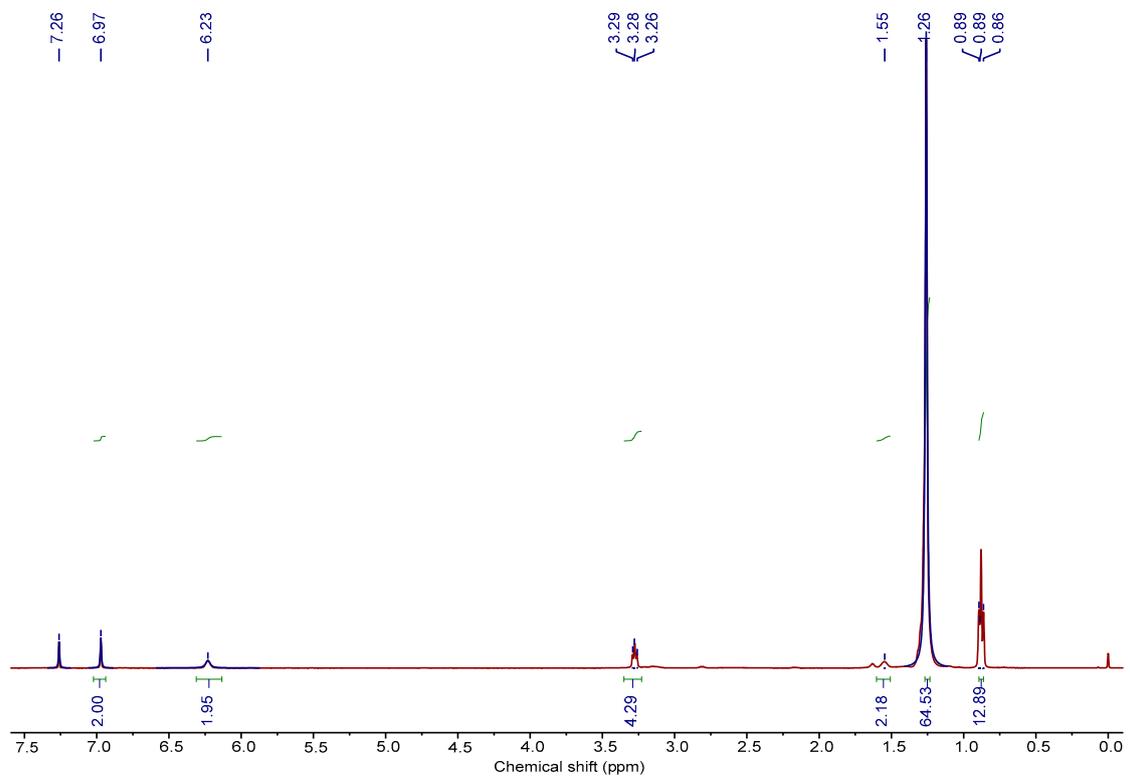
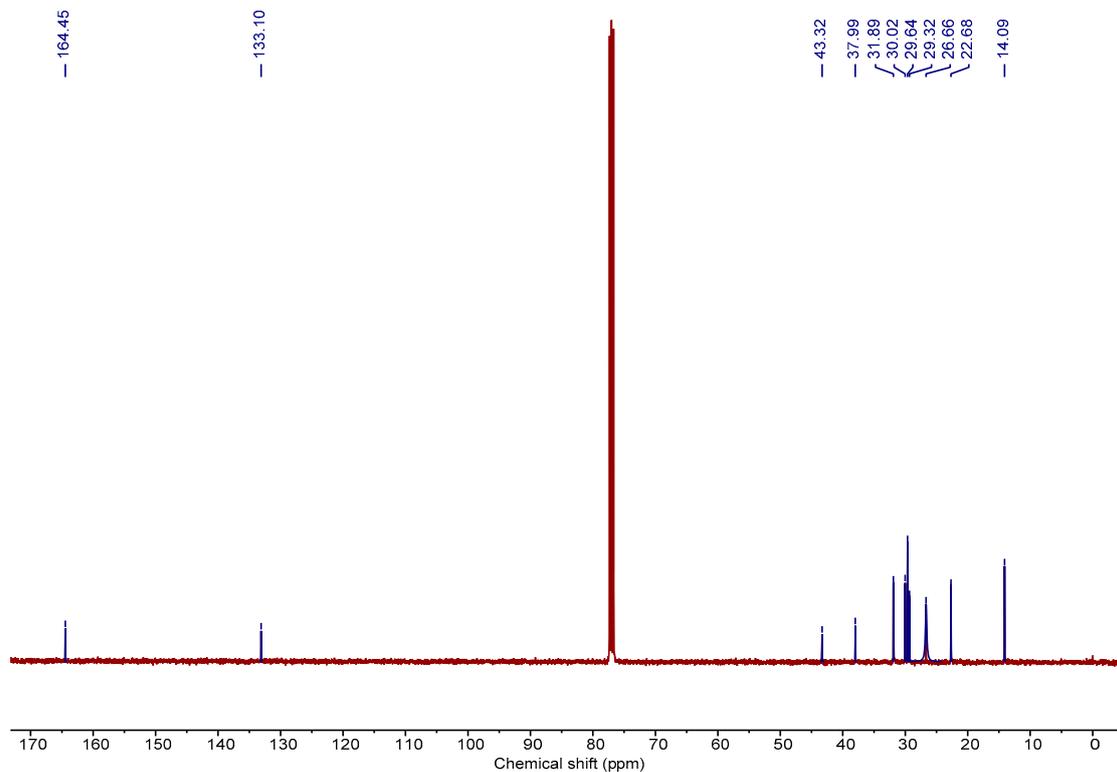
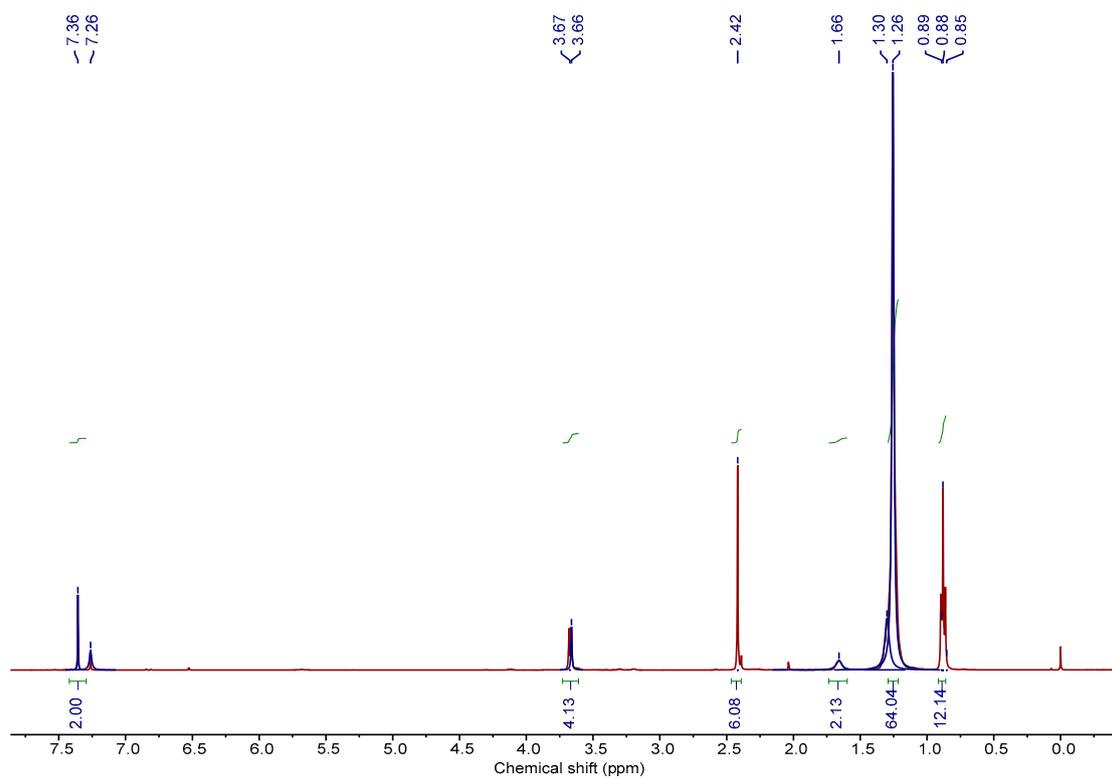


Figure S2.  $^{13}\text{C}$  NMR spectra of compound 2



**Figure S3.**  $^1\text{H}$  NMR spectra of compound 3



**Figure S4.**  $^{13}\text{C}$  NMR spectra of compound 3

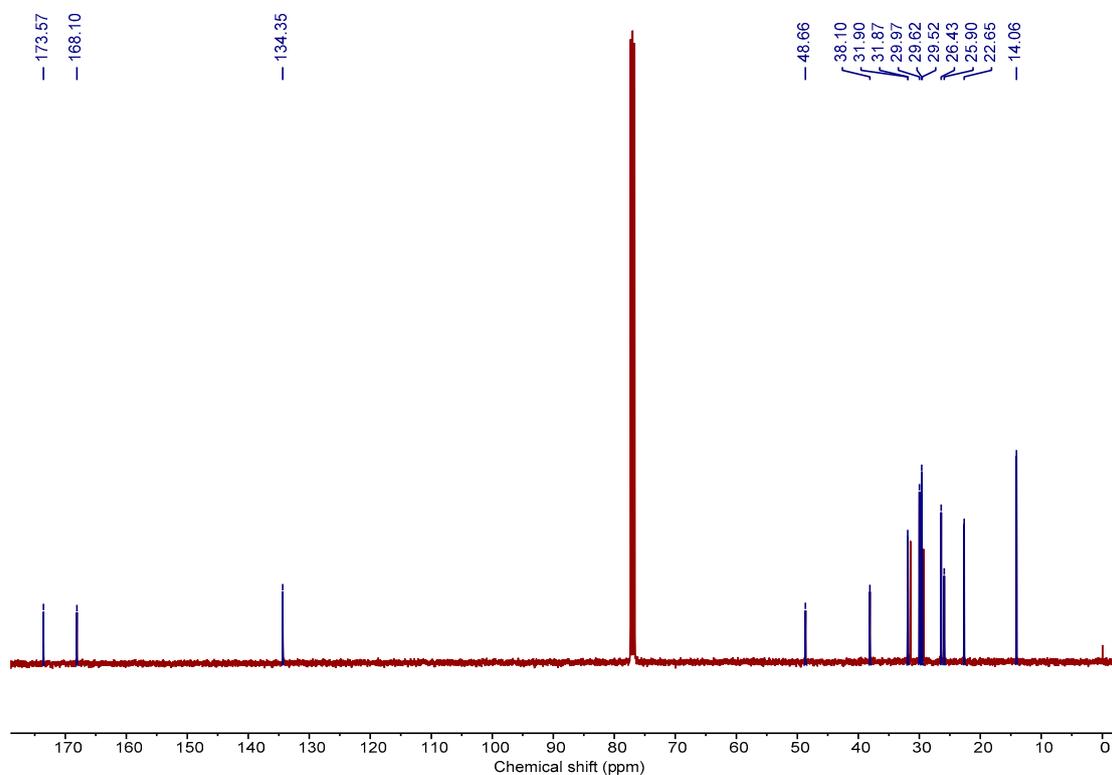


Figure S5.  $^1\text{H}$  NMR spectra of compound 4

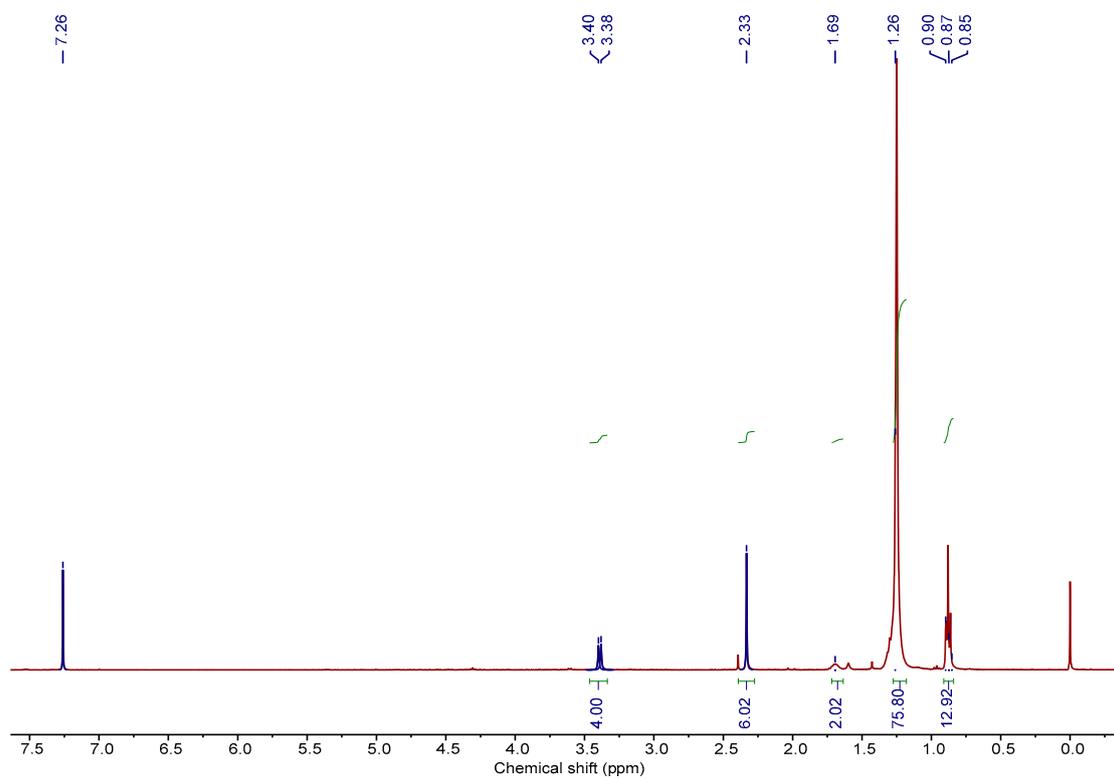
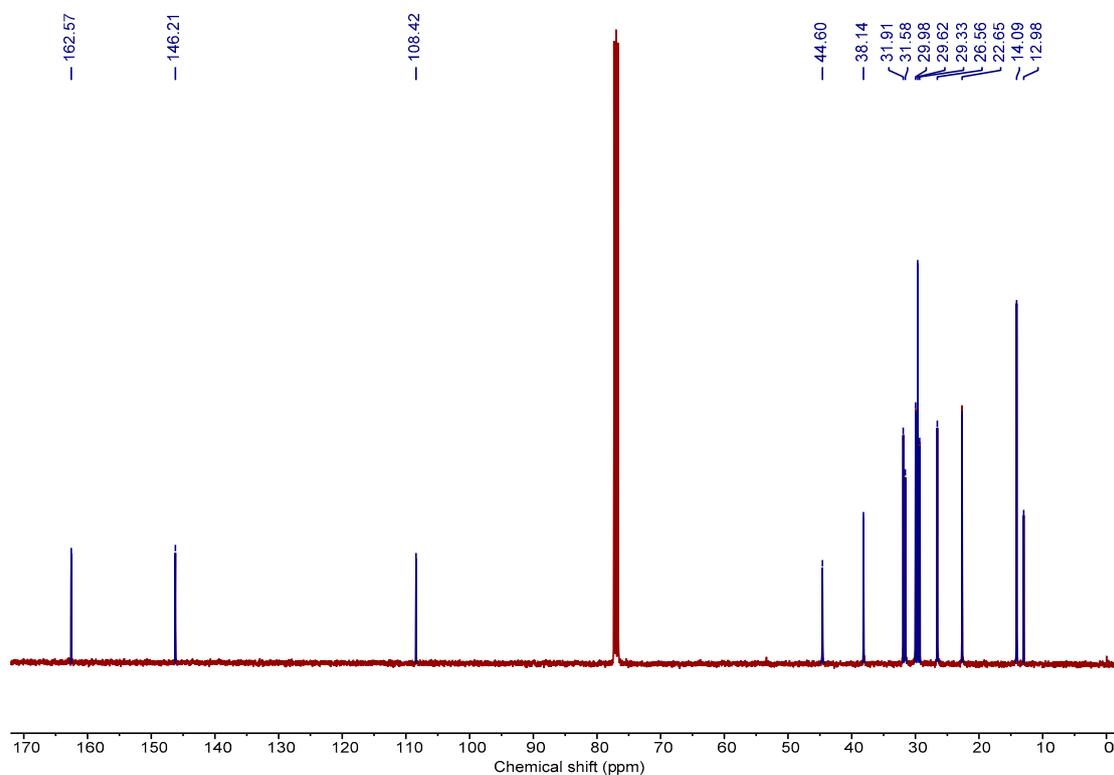
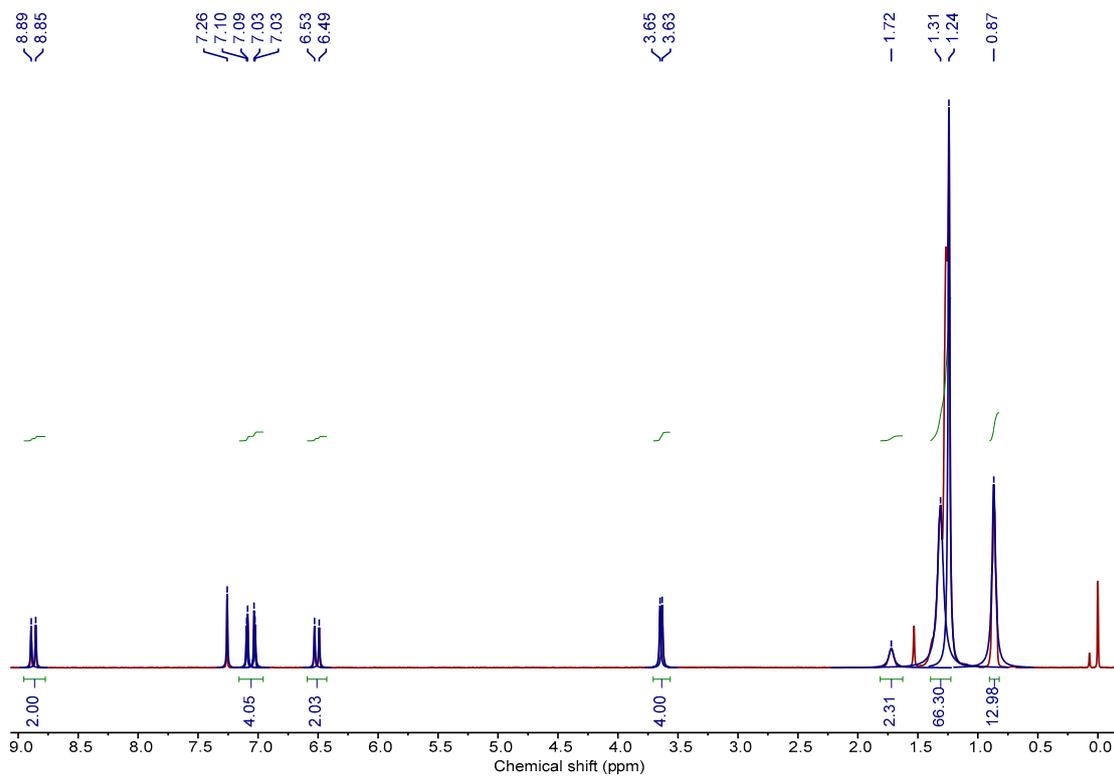


Figure S6.  $^{13}\text{C}$  NMR spectra of compound 4



**Figure S7.**  $^1\text{H}$  NMR spectra of compound TVDPP



**Figure S8.**  $^{13}\text{C}$  NMR spectra of compound TVDPP

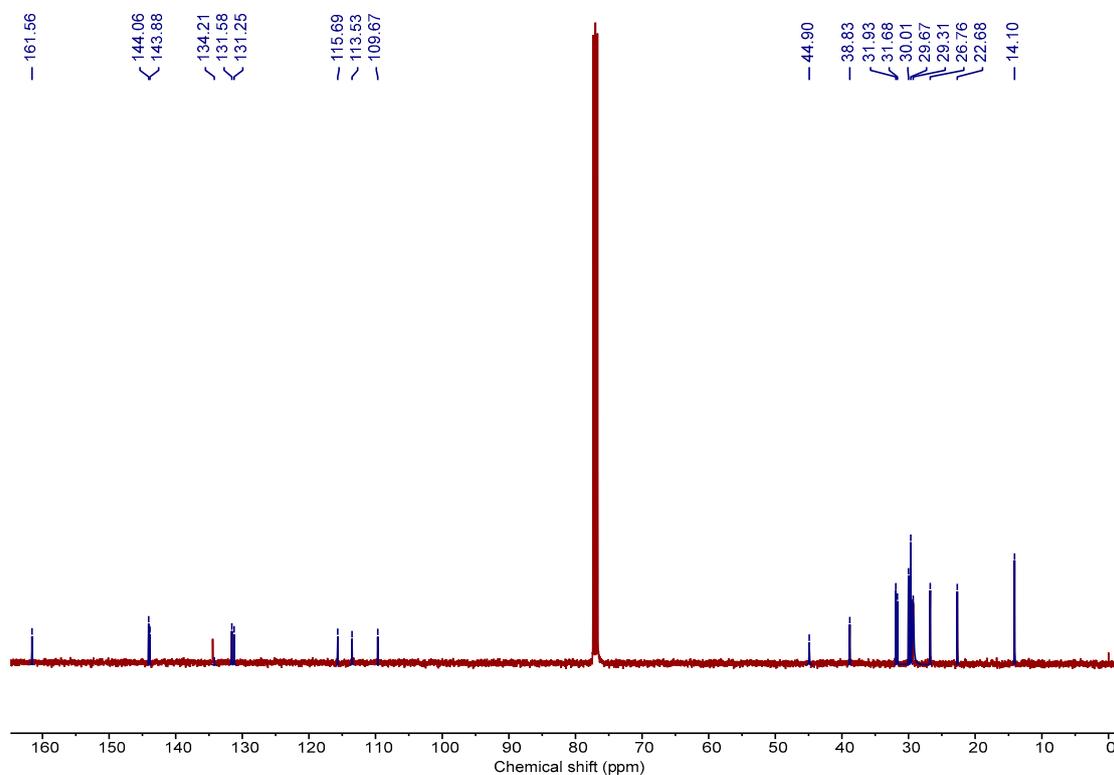


Figure S9. GPC data (cumulative percent curves and molecular weight distribution) for the polymer.

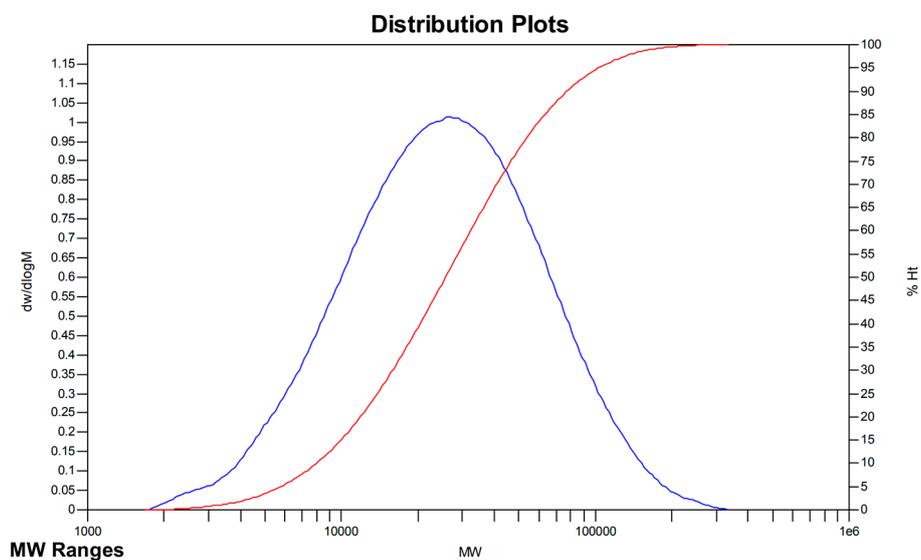
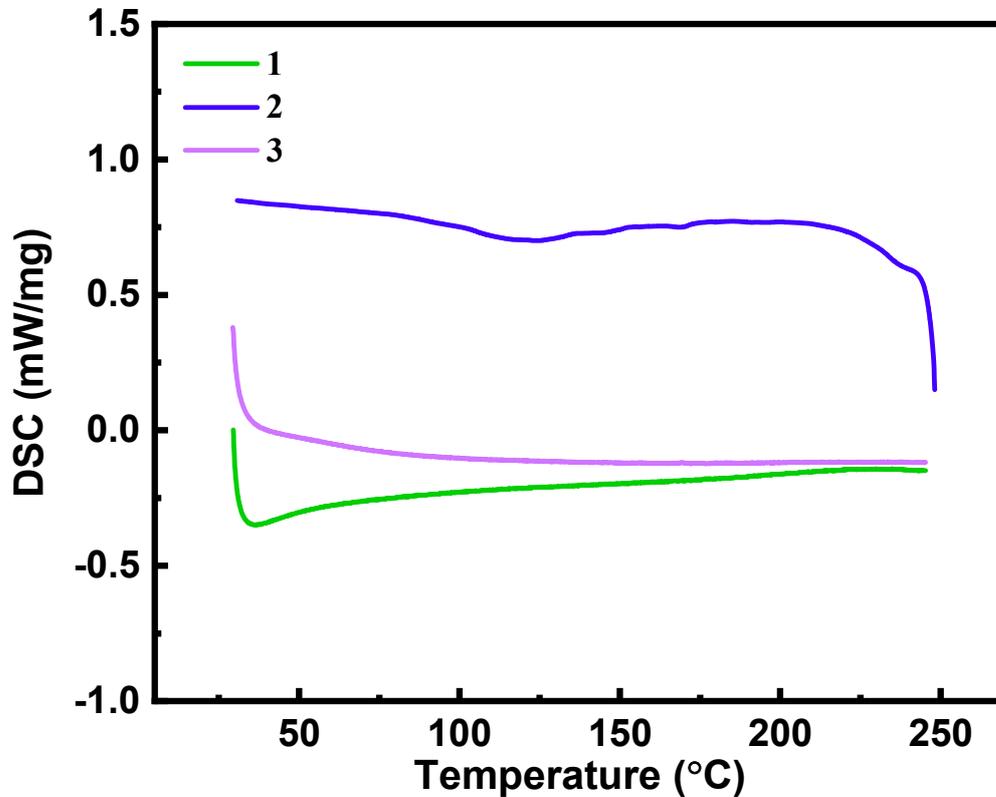


Figure S10: Differential scanning calorimetry of polymer PTVDPP-2FT.



**Figure S11:** AFM phase image of annealed film of polymer PTVDPP-2FT.

