

Supporting Information for

Low-catalyst concentration atom transfer radical polymerization of a phosphonium salt-type monomer

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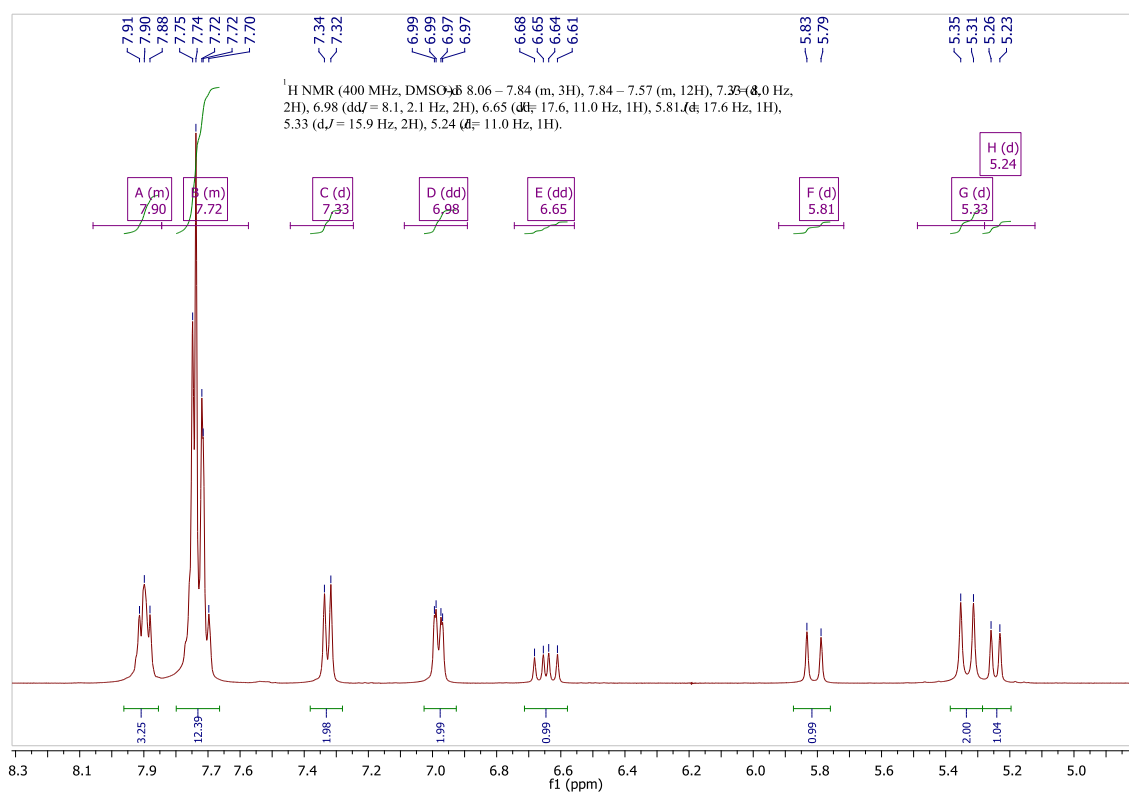


Figure S1. ¹H NMR spectrum of 4VBTPPCI in DMSO-*d*₆

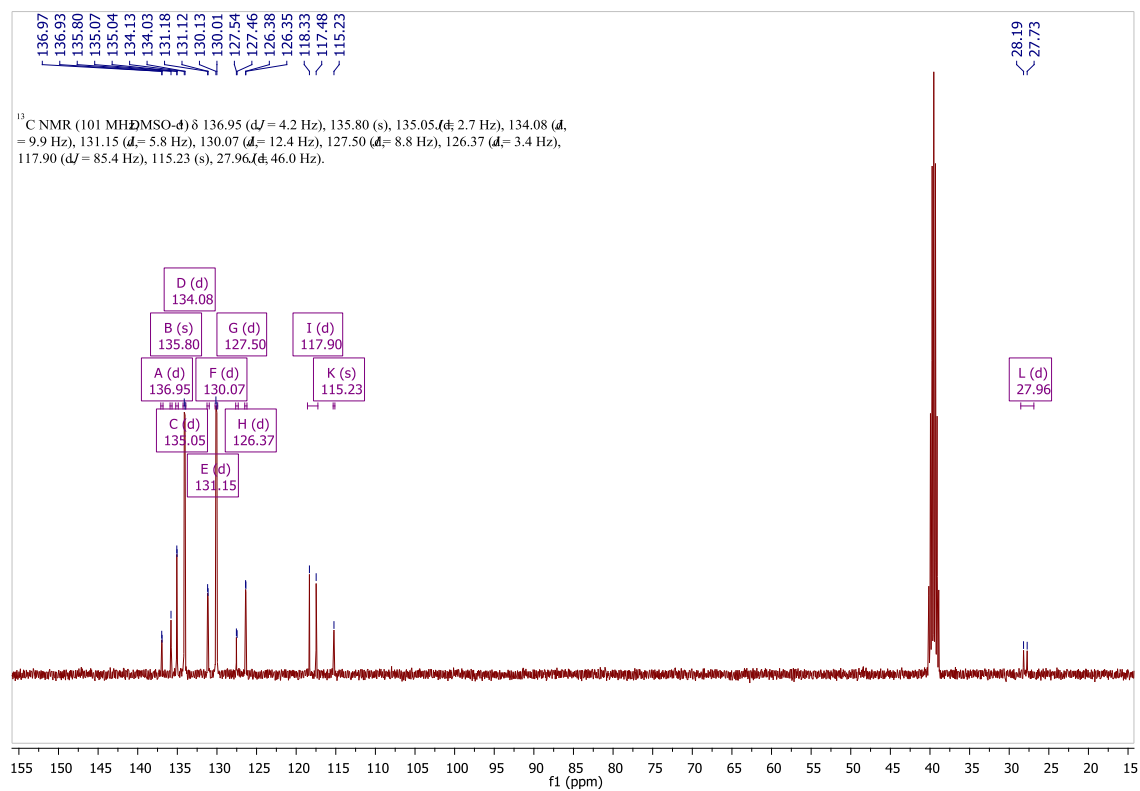


Figure S2. ¹³C NMR spectrum of 4VBTPPCI in DMSO-*d*₆

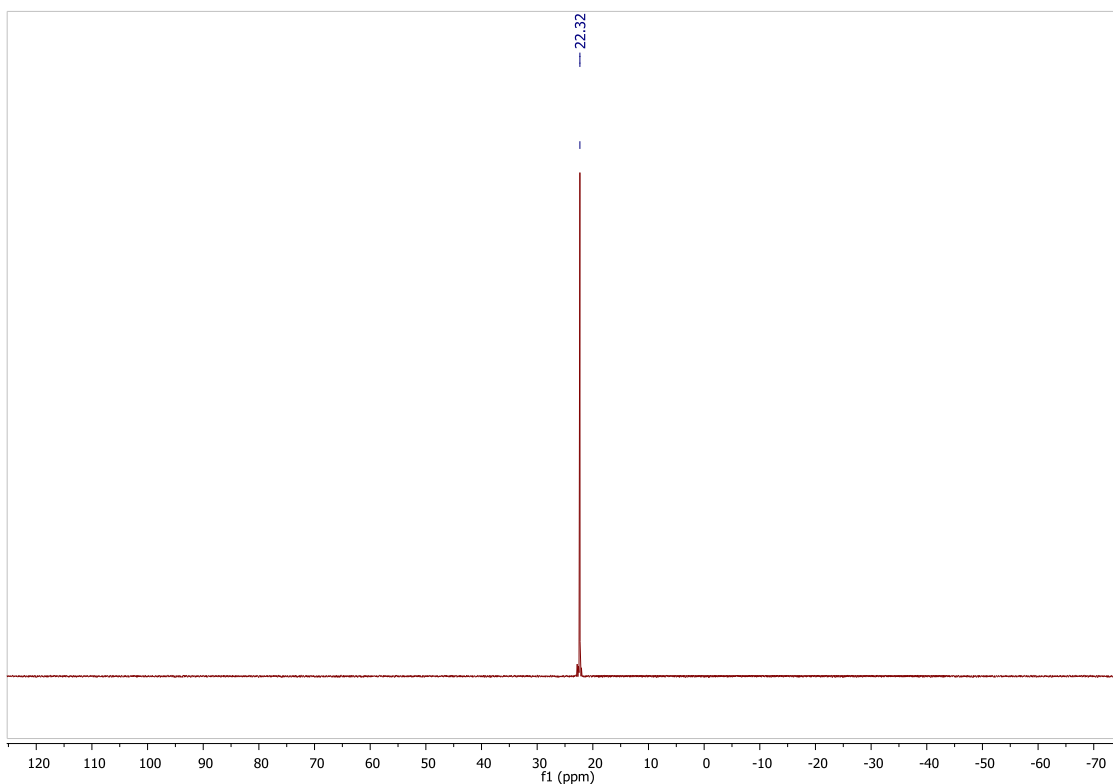


Figure S3. $\{^1\text{H}\}^{31}\text{P}$ NMR spectrum of 4VBTPPCL in $\text{DMSO-}d_6$

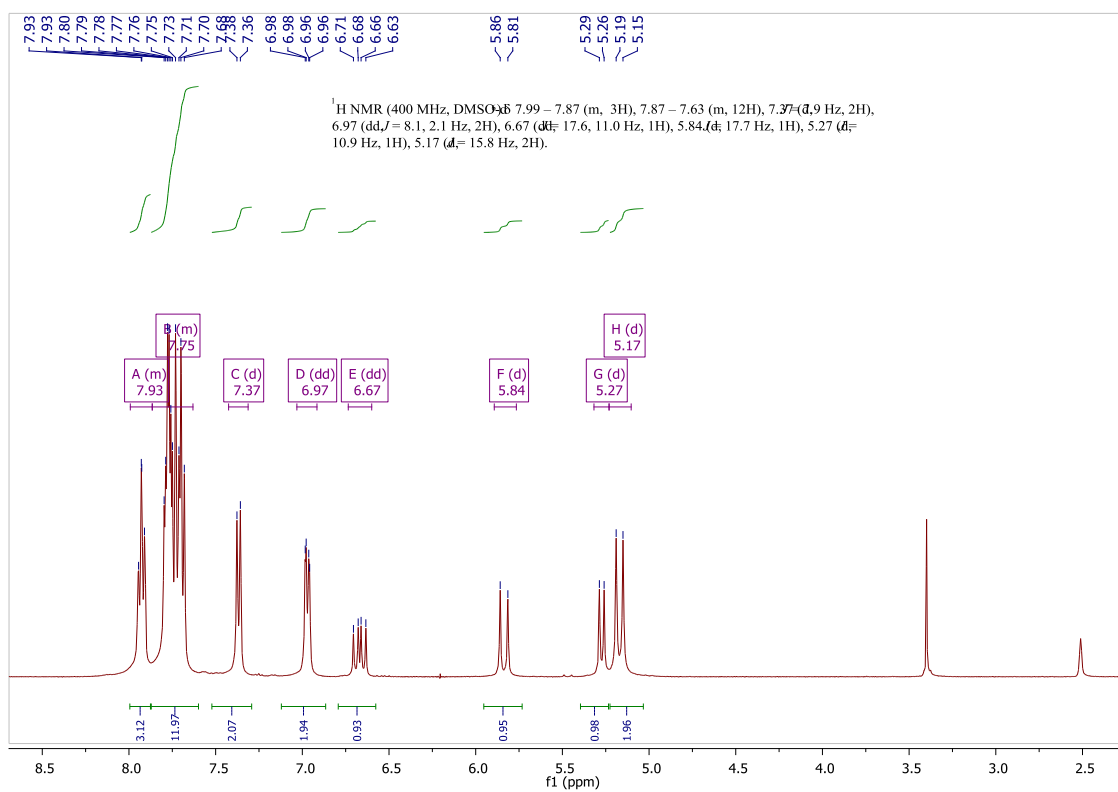


Figure S4. ^1H NMR spectrum of 4VBTPPBF $_4$ in $\text{DMSO-}d_6$

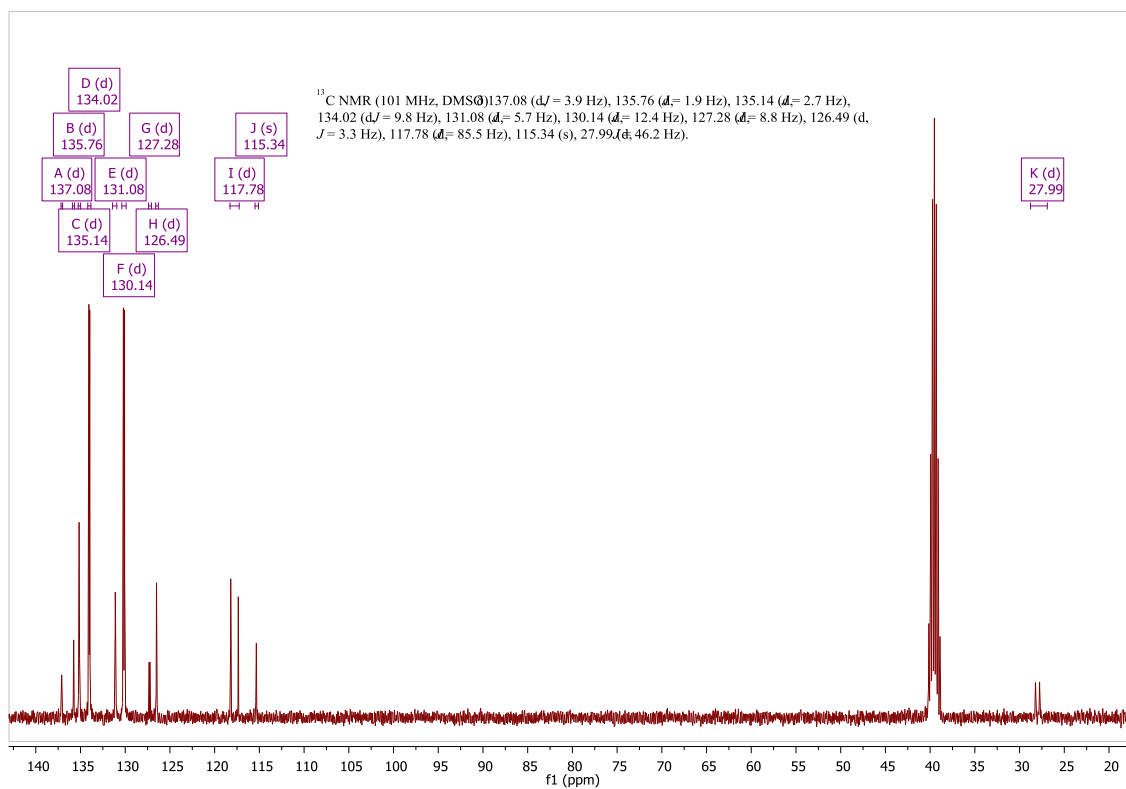


Figure S5. ¹³C NMR spectrum of 4VBTPPB₄ in DMSO-*d*₆

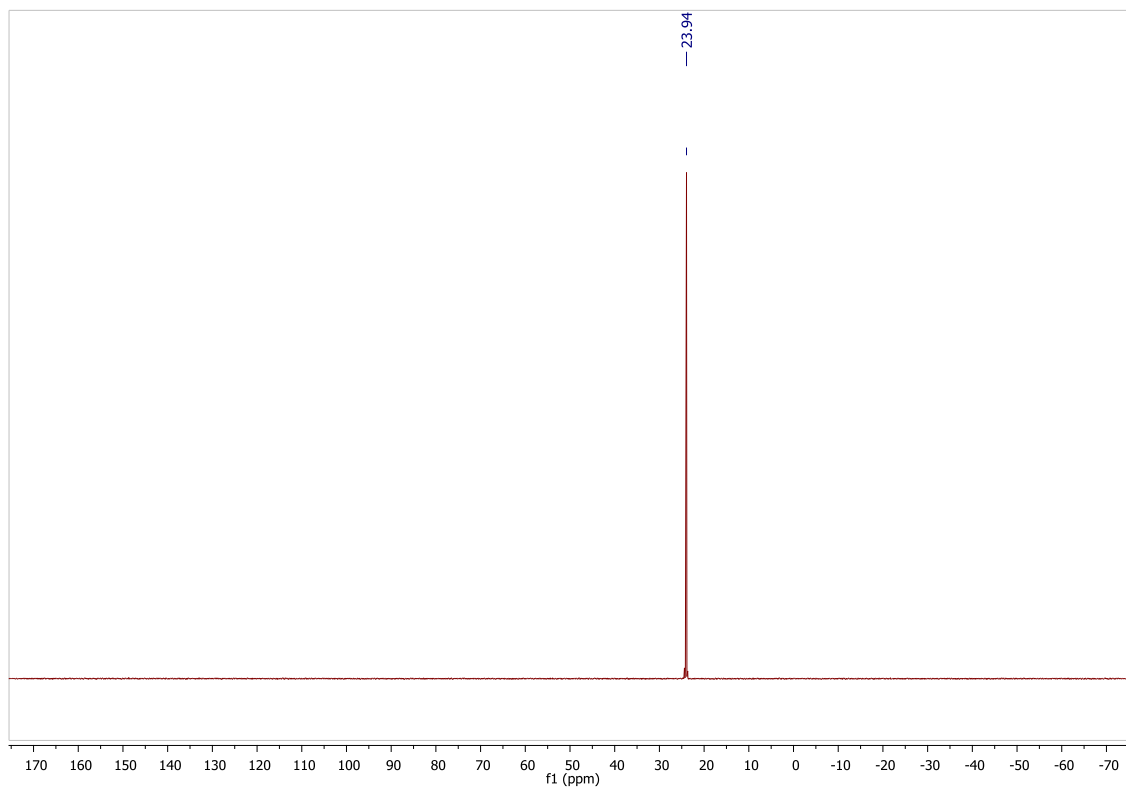


Figure S6. ³¹P NMR spectrum of 4VBTPPB₄ in DMSO-*d*₆

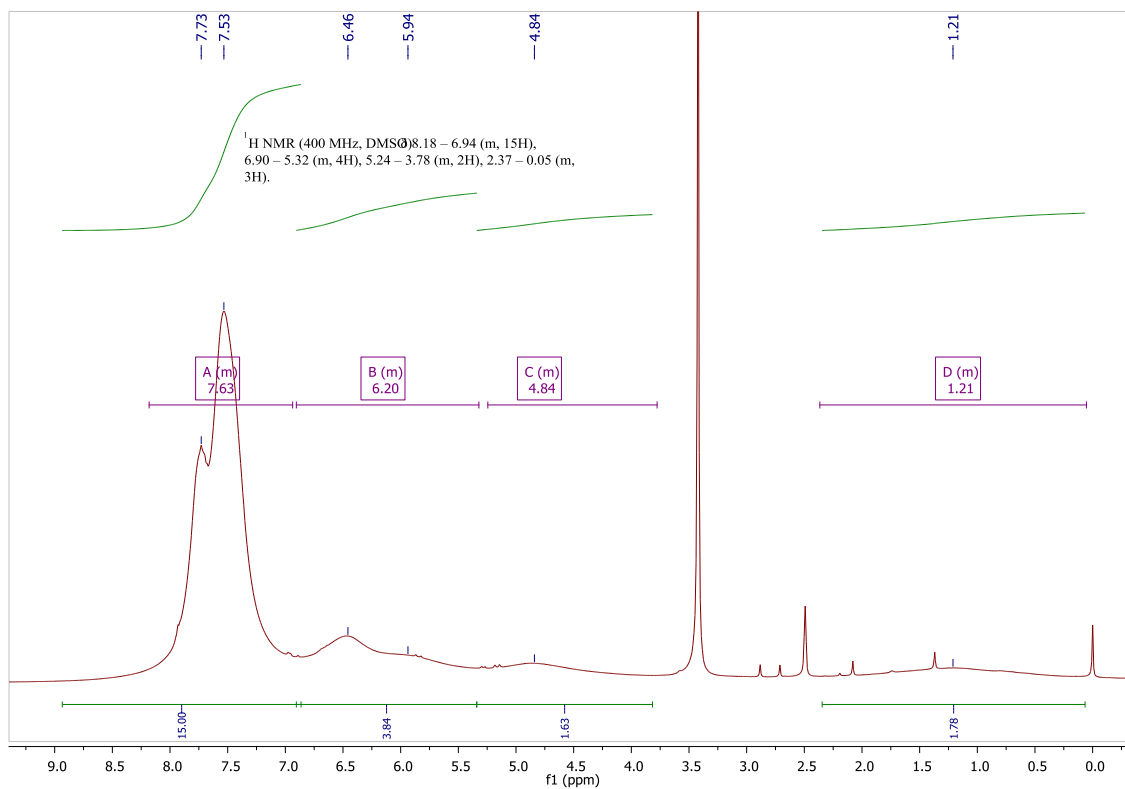


Figure S7. ¹H NMR spectrum of poly4VBTPPBF₄ in DMSO-*d*₆

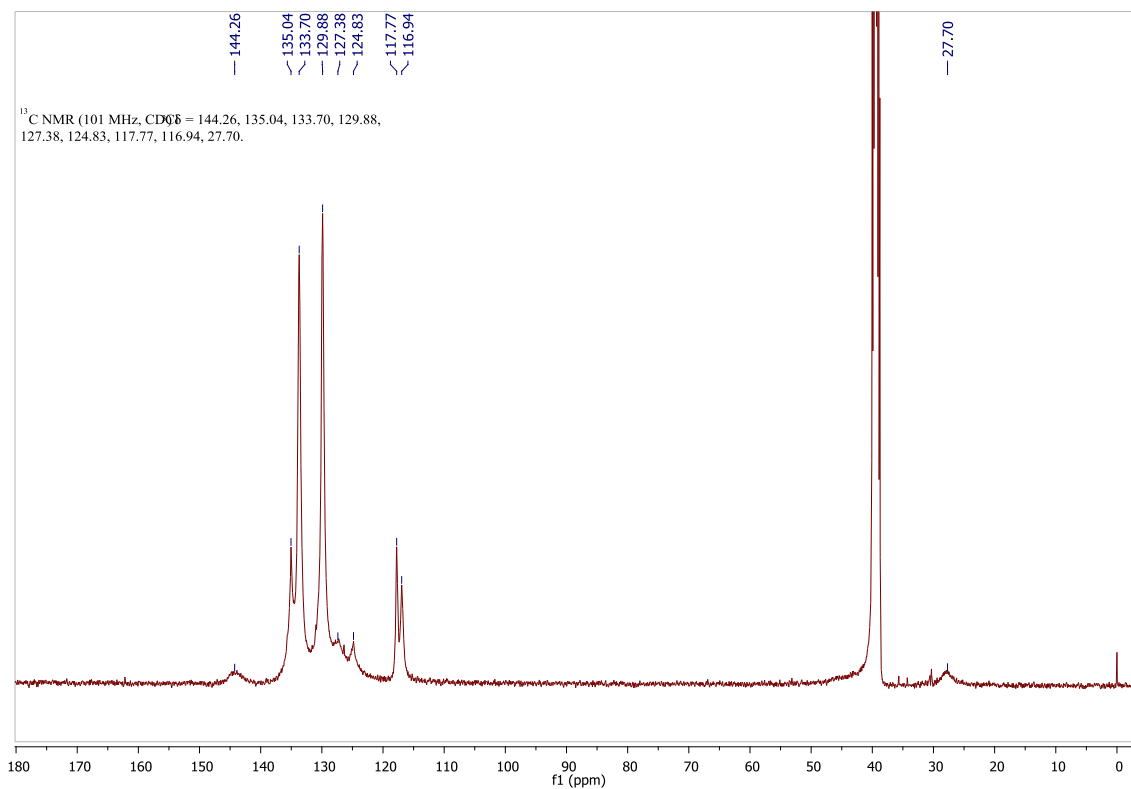


Figure S8. ¹³C NMR spectrum of poly4VBTPPBF₄ in DMSO-*d*₆

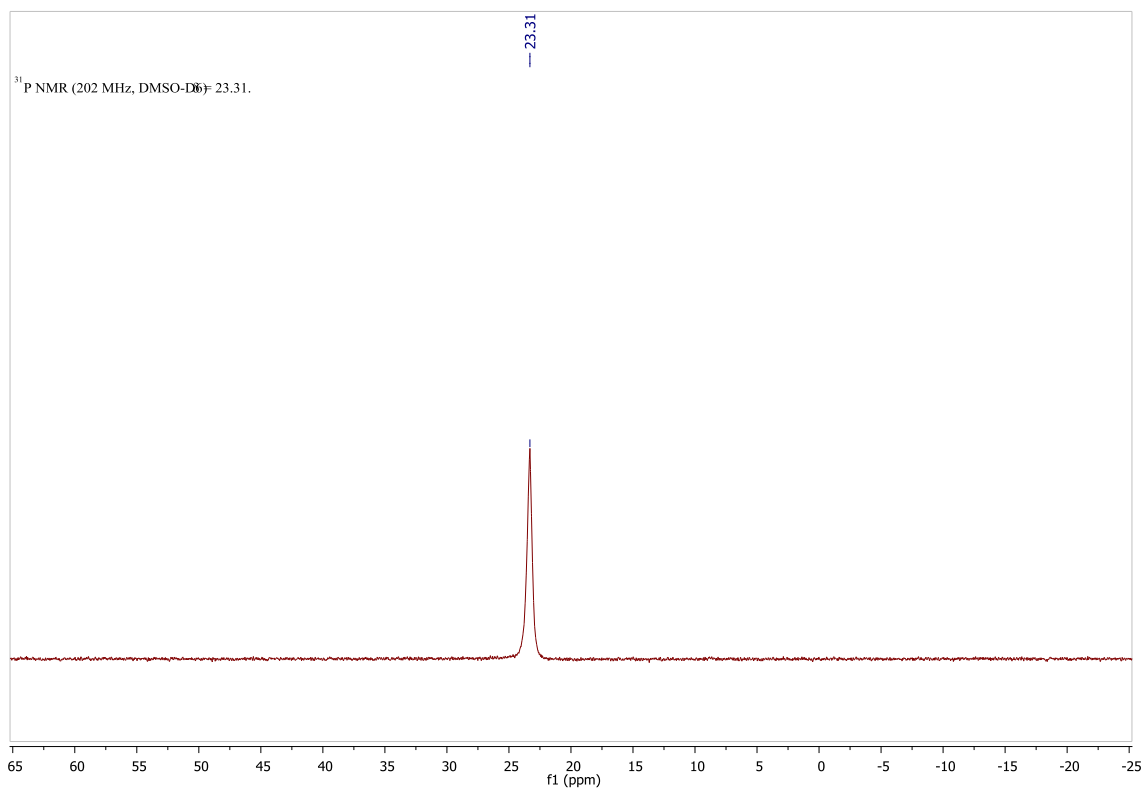


Figure S9. ^{31}P NMR spectrum of poly4VBTPPBF₄ in DMSO- d_6

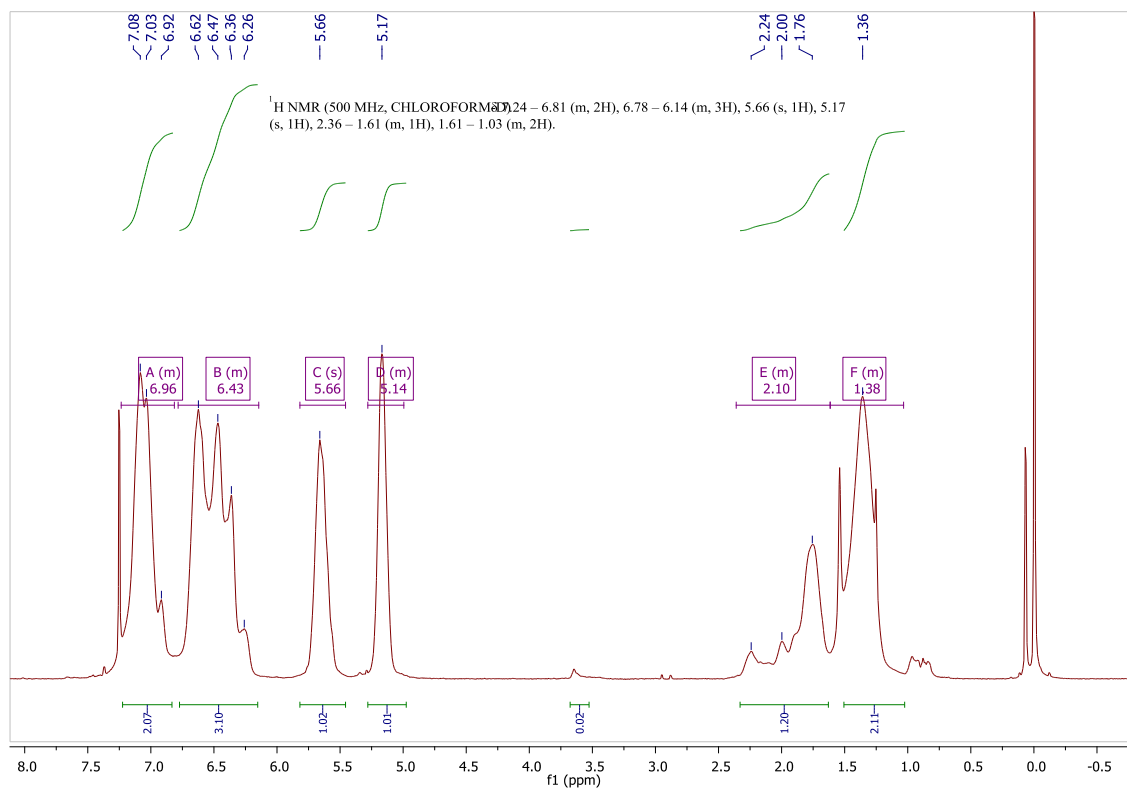


Figure S10. ^1H NMR spectrum of poly4VSty in CDCl_3

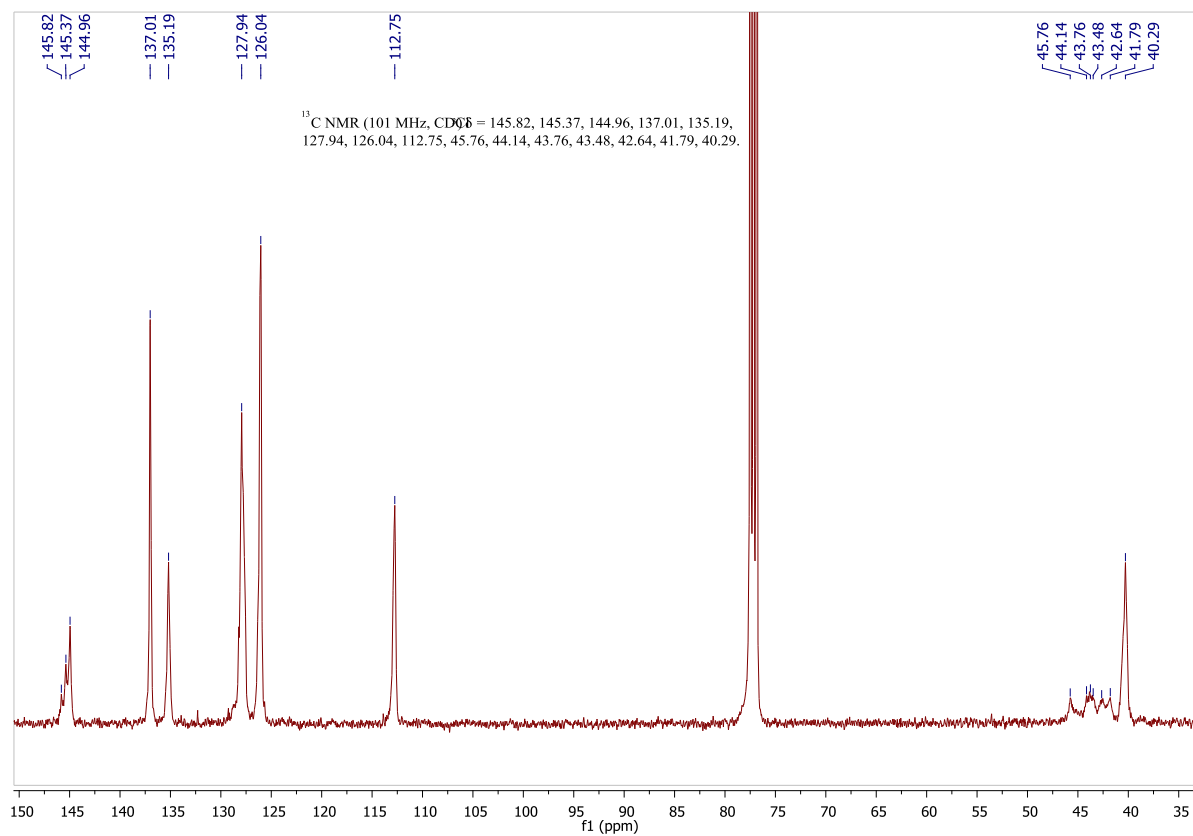


Figure S11. ¹³C NMR spectrum of poly4VSty in CDCl₃