Supporting Information for

Polymerization of Disubstituted Acetylenes by Monodentate

NHC-Pd Catalysts

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Measurement



Figure S1. PXRD curves of Poly (**B**)-**1** (table 1, entry 9) and Poly (**B**)-**Mo** (table 1, entry 20).



Figure S2. PXRD curves of Poly (C)-1 (table 1, entry 4) and Poly (C)-Mo (table 1, entry 21).



Figure S3. TGA curves of Poly (**C**)-1 (table 1, entry 4)and Poly (**C**)-**Mo** (table 1, entry 21)



Figure S4. DSC curves of Poly Poly (B)-1 (table 1, entry 9) and Poly (B)-Mo (table 1, entry 20).



Figure S5. DSC curves of Poly (C)-1 (table 1, entry 4) and Poly (C)-Mo (table 1, entry 21).



Figure S6. IR spectra of Mon. C, Poly (C)-1 (table 1, entry 4) and Poly (C)-Mo (table 1, entry 21).



Figure S7. IR spectra of Mon. D, Poly (D)-1 (table 1, entry 4) and Poly (D)-Mo (table 1, entry 21).



Figure S8. Raman spectra of Poly (**B**)-1 (table 1, entry 9) and Poly (**B**)-**Mo** (table 1, entry 20).



Figure S9. Raman spectra of Poly (C)-1 (table 1, entry 4) and Poly (C)-Mo (table 1, entry 21)



m/z

Figure S10. ESI-mass spectrum of a mixture of 1/NaBAF and C (1:2). Inset: expanded experimental and calculated isotope patterns of single and double insertion product.



Figure S11. ¹H NMR spectrum of Poly (D)-1 (table 1, entry 22)



Figure S12. ¹³C NMR spectrum of Poly (D)-1 (table 1, entry 22)



Figure S13. ¹H NMR spectrum of Poly (**B**)-1 (table 2, entry 2), * impurity peaks from n-hexane (maybe overlapping with some incorporated 1-octene peaks), # impurity peak from water.

