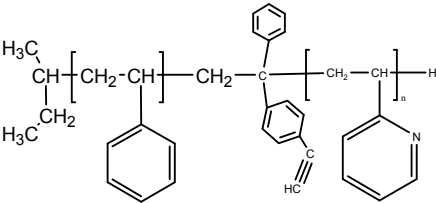


**Sample Name:** Poly (Styrenee-b-2-vinyl pyridine) bearing ethynyl (acetylenic triple bond) phenyl – phenyl ethylene at the junction of S-2VP block

**Sample #:** P40221-S (acetylene) 2VP

**Structure:**

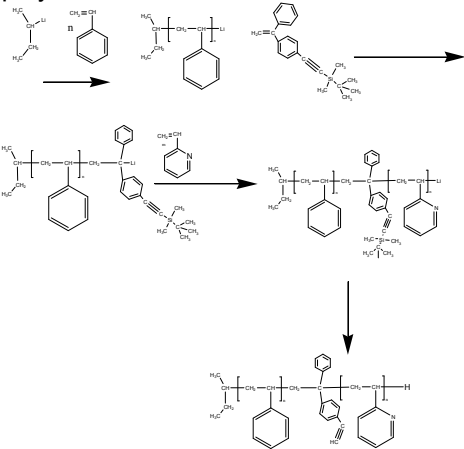


**Composition:**

Mn x 10 <sup>3</sup> S-b-2VP	PDI
110.0-b-40.0	1.03

**Synthesis Procedure:**

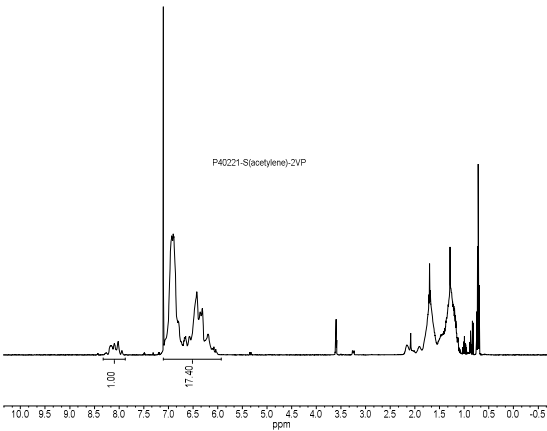
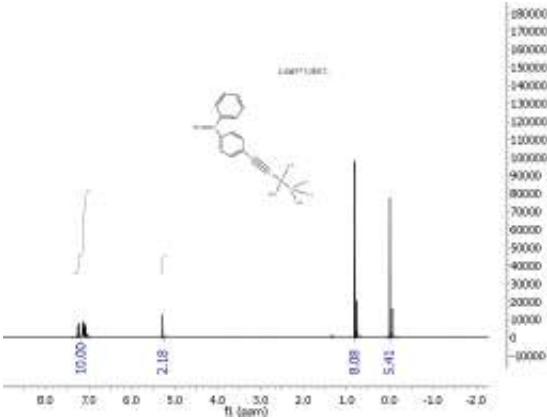
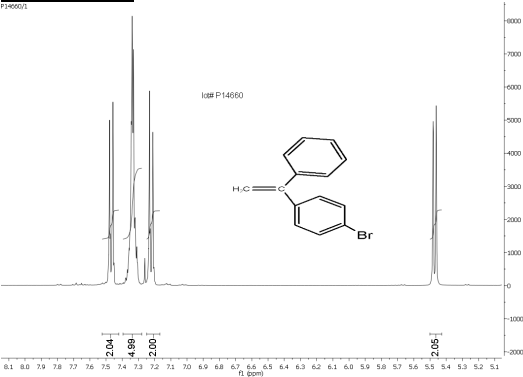
The polymer was synthesized by anionic polymerization.



**Characterization:**

The product was characterized by size exclusion chromatography (SEC) and 1H NMR.

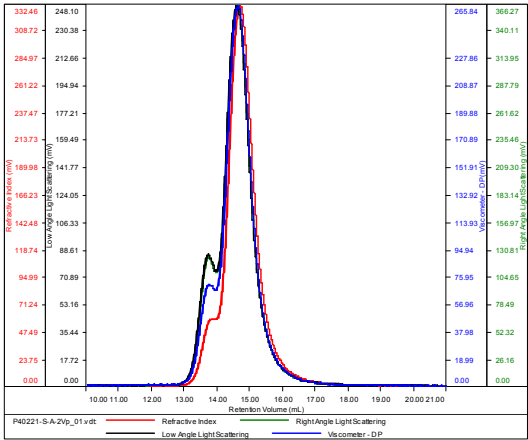
**DPE-4Br:** The product was characterized by NMR and FTIR.



**SEC for the polymer at different stages:**

**P40221-S-A-2VP**

Conc (mg/mL)	11.6214
dn/dc (mL/g)	0.1600
Method	PS80k-Nov162016-0000.vcm
Solvent	DMF w 0.023MLiBr
Column	PSS



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40221-S-A-2VP_01.vdt	146,583	150,562	151,855	1.027	0.2283