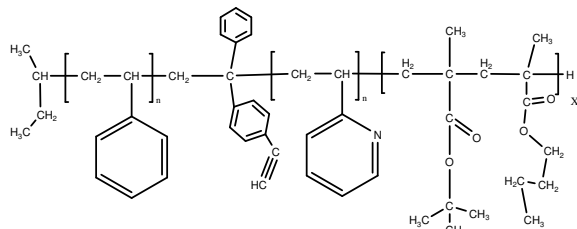


**Sample Name:** Poly(styrene-b-2-vinyl pyridine-tert butylmethacrylate-Butyl methacrylate ran) bearing ethynyl (acetylenic triple bond) phenyl – phenyl ethylene at the junction of S-2VP block

**Sample #:**

**P19070-S(acetylene) 2VPtBuMANBuMAran**

**Structure:**

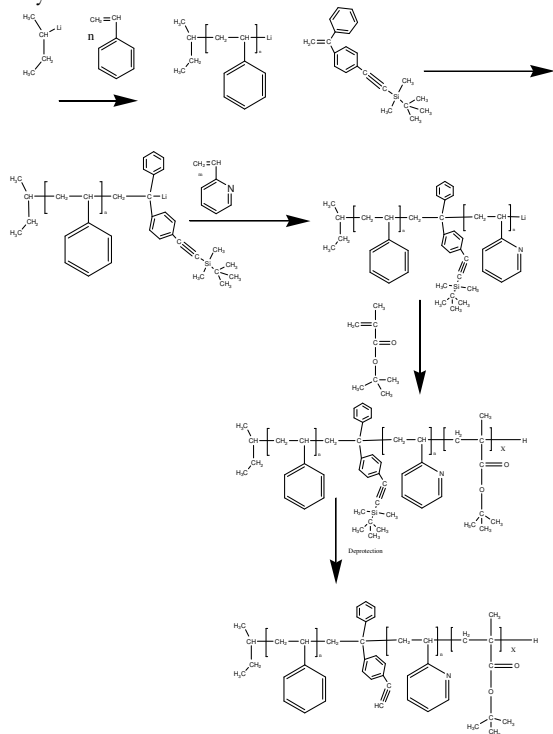


**Composition: tBuMA: nBuMA 1:1ratio**

Mn x 10 <sup>3</sup>	PDI
S-b-2VP-b-tBuMANBuMA	
49.0-b-44.0-b-165.0	1.08
HNMR	
Tg: °C	101:119:68
S:2VP	

**Synthesis Procedure:**

By anionic Process



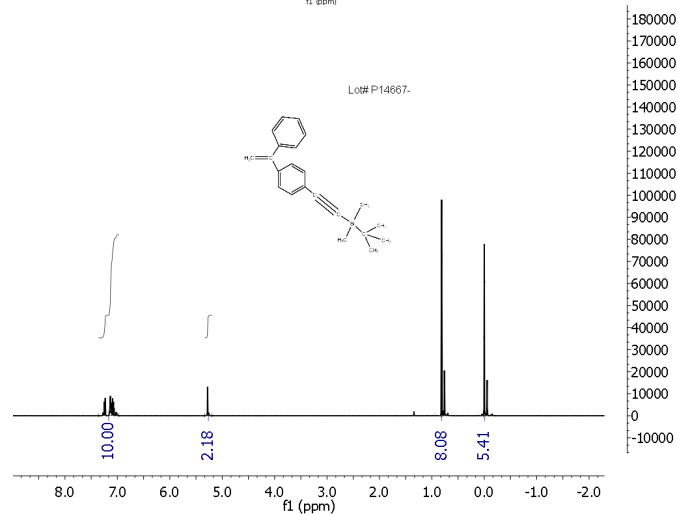
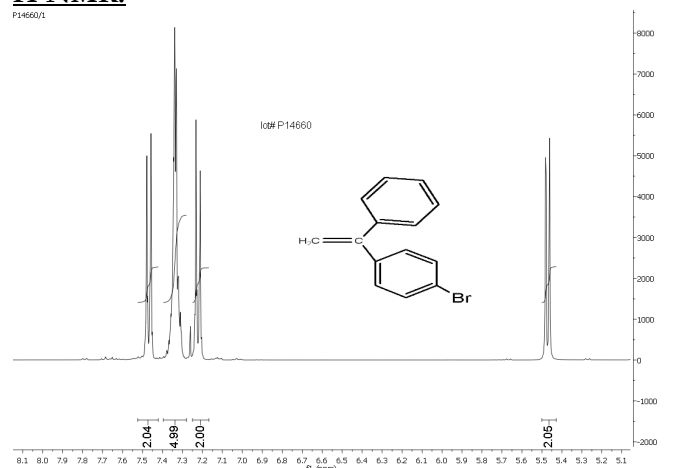
**Characterization:**

By SEC and HNMR spectroscopy.

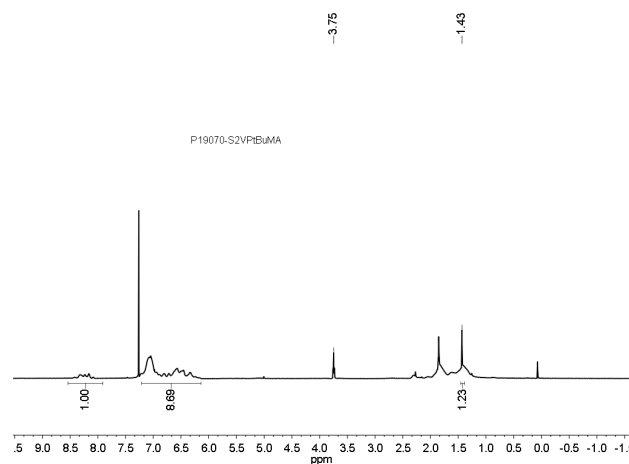
DPE-4Br:

The product was characterized by NMR and FTIR.

**H NMR:**



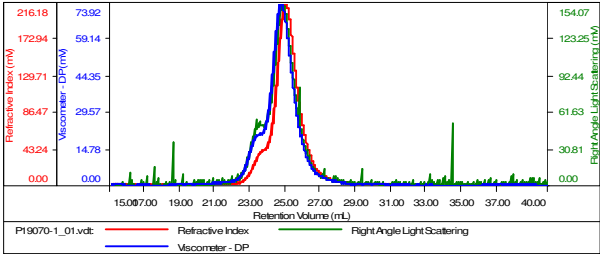
**<sup>1</sup>H-NMR Spectrum of the polymer**



SEC for the polymer at different stages:

Sample ID: P19070-1

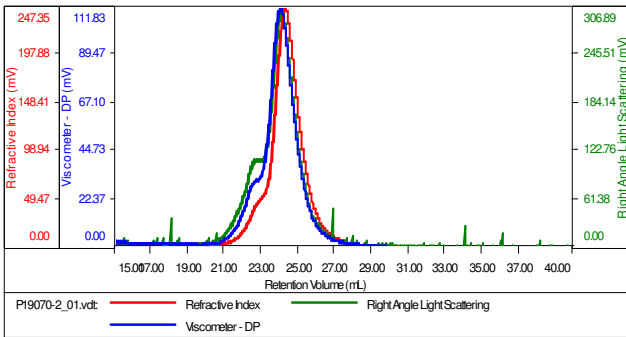
Concentration (mg/mL)	4.8827
Sample dn/dc (mL/g)	0.1850
Method File	PS80K-Jan22-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19070-1_01.vdt	48,690	51,660	47,718	1.061	0.4793

Sample ID: P19070-S2VP

Concentration (mg/mL)	6.4843
Sample dn/dc (mL/g)	0.1700
Method File	PS80K-Jan22-2015-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	MW Number Average (Da)	MW Weight Average (Da)	MW at Peak (Da)	Polydispersity	Intrinsic Viscosity (dL/g)
P19070-2_01.vdt	99,454	105,222	99,478	1.068	0.5722