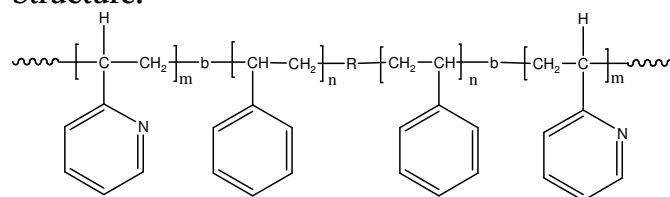


Sample Name: Poly(2-vinyl pyridine-b-styrene-b-2-vinyl pyridine)

Sample #: P18771-2VPS2VP

Structure:



R: dimer or tetramer of alpha methyl styrene

Composition:

Mn x 10 ³ 2VP-b-PS-b-2VP	PDI
8.5-b-17.5-b-8.5	1.2
T _g for PS block: 102°C	

Synthesis Procedure:

Poly(2-vinyl pyridine-b-styrene-b-2-vinyl pyridine) is prepared by living anionic polymerization using a bifunctional initiator with sequence addition of styrene followed by 2-vinylpyridine (2VP).

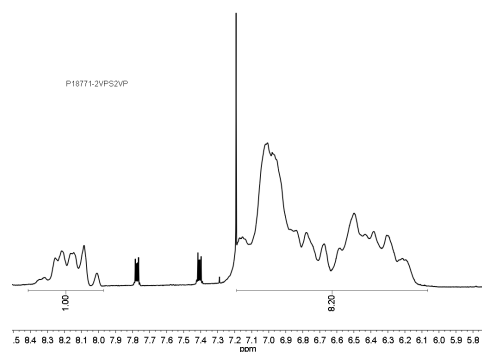
Characterization:

The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector. THF was an eluent.

Thermal analysis:

Thermal analysis of the samples was carried out on a TA Q100 differential scanning calorimeter at a heating rate of 10°C/min. The midpoint of the slope change of the heat flow plot of the second heating scan was considered as the glass transition temperature (T_g).

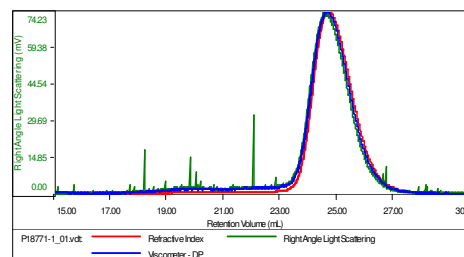
H NMR:



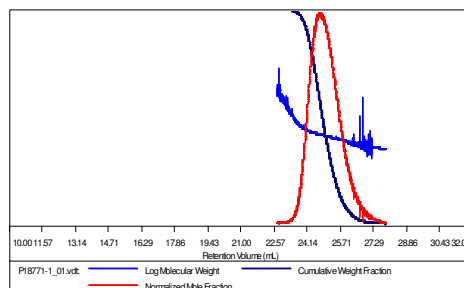
SEC of the polymer:

Sample ID: P18771-1

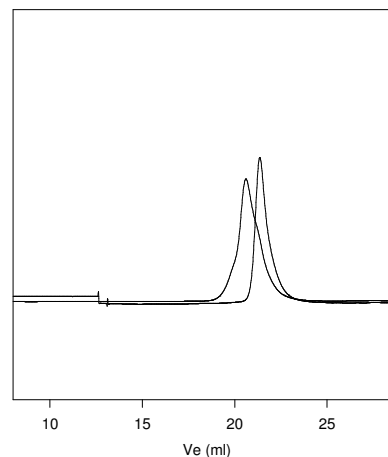
Concentration (mg/mL)	24.5336
Sample chdc (mL/g)	0.1850
Method File	PS80K-Apr15-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mh	Mw	Mp	Mw/Mh	IV
P18771-1_01.vcl	17,771	18,271	18,418	1.028	0.0772



P18771-2VPS2VP



Size exclusion chromatography of:
Poly(2 vinyl pyridine-b-Styrene-b-2 vinylpyridine)

— Poly(Styrene), M_n=17,500, PI=1.08
— Triblock Copolymer P 2VP(8,500)-b-PS(17,500)-b-P2VP(8,500) PI=1.2
Chemical composition from ¹H NMR and by titration (average value)