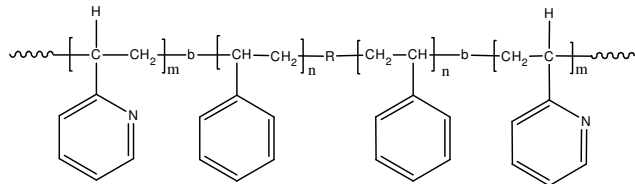


Sample Name: Poly(2-vinyl pyridine-b-styrene-b-2-vinyl pyridine)

Sample #: P18770-2VPS2VP

Structure:



R: dimer or tetramer of alpha methyl styrene

Composition:

Mn x 10 ³ 2VP-b-PS-b-2VP	PDI
13.0-b-29.0-b-13.0	1.19
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).

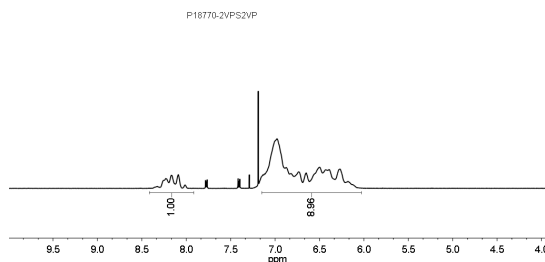
Characterization:

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).

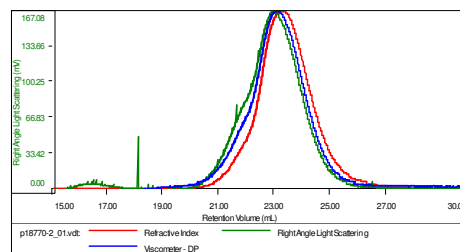
H NMR:



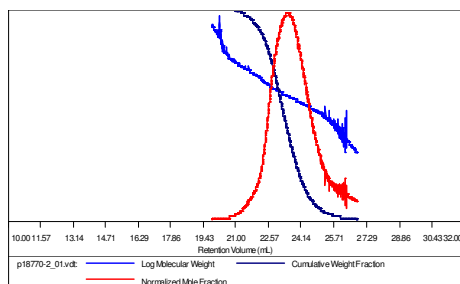
SEC of the polymer:

Sample ID: P18770-2VPS2VP

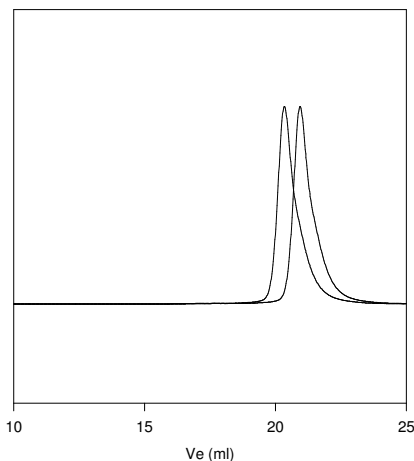
Concentration (mg/mL)	22.7027
Sample chrb (mL/g)	0.1800
Method File	PS80K-Apr15-2014-0000.vcm
Column Set	3x PL 1113-6300
Solvent	THF



Sample	Mn	Mw	Mp	Mw/Mn	IV
p18770-2_01.vdt	57,748	68,694	64,808	1.190	0.1575



P18770-2VPS2VP



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

— Poly(Styrene), M_n=29,000, PI=1.38

— Triblock Copolymer P 2VP(13,000)-b-PS(29,000)-b-P2VP(13,000) PI=1.19
Chemical composition from ¹H NMR and by titration (average value)