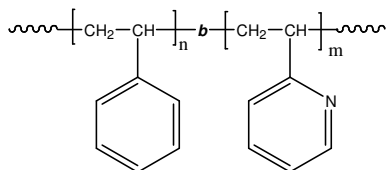


Sample Name:
Polystyrene-*b*-poly (2-vinyl pyridine)

Sample #: **P19939-S2VP**

Structure:



Composition of PS-*b*-P2VP diblock copolymer:

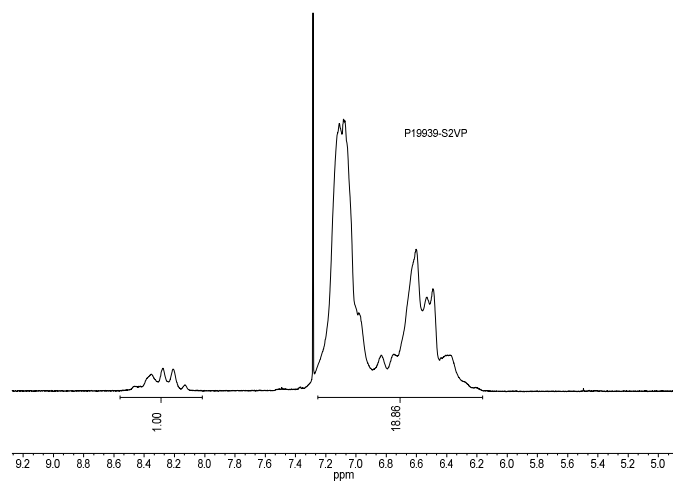
$M_n \times 10^3$ (g/mol)	PDI
20.0- <i>b</i> -5.5	1.04

Synthesis:

Polystyrene-*b*-poly (2-vinyl pyridine) was prepared by living anionic polymerization in THF at -78°C in the presence of LiCl as an additive.

Characterization: The polymer was characterized by ^1H NMR and SEC.

^1H NMR spectrum of PS-*b*-P2VP:



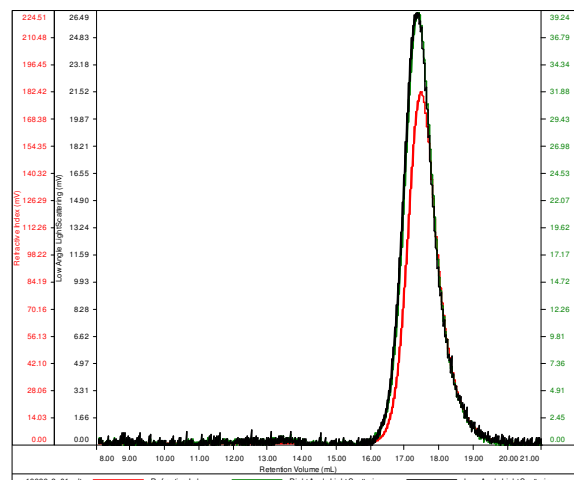
References:

1. S. K. Varshney, X. F. Zhong and A. Eisenberg *Macromolecules* **1993**, 26, 701–706.
2. Z. Gao, S. K. Varshney, S. Wong, A. Eisenberg *Macromolecules* **1994**, 27, 7923–7927.

SEC elugram of PS-*b*-P2VP:

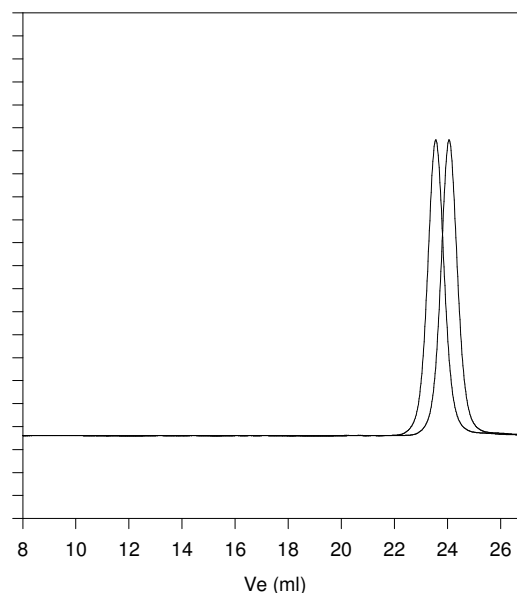
P19939-S2VP

Conc (mg/mL)	4.8074
dn/dc (mL/g)	0.1580
Method	PS80k-May-25-2016-0000.vcm
Solvent	DMF w 0.023M LiBr
Column	PSS



Sample	M_n	M_w	M_p	M_w/M_n	IV
p19939-2_01.vcl	25,813	26,819	26,221	1.039	0.1284

P19939-S2VP



Size exclusion chromatography of poly(styrene-*b*-2-vinyl pyridine)

- Polystyrene, $M_n=20,000$ $M_w:21,500$ $PI=1.06$
 —— Polystyrene(20000)-*b*-Poly(2-vinyl pyridine)(5,500), $PI=1.04$