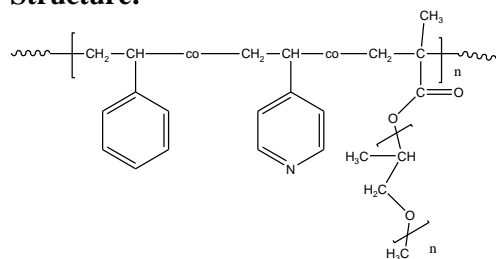


Sample Name: Random Copolymer Poly(styrene-co-4-vinylpyridine-co-propylene glycol methyl ether methacrylate)

Sample #: P40943-S4VPPGMAn

Structure:



Composition:

Mn x 10 ³ PS-co-P4VP-co-PGMA	PDI
75.0	2.25
S:4VP:PGMA mole ratio	21:62:17
Mn of Propylene glycol methyl ether methacrylate : ~750	Values of n : 13 units

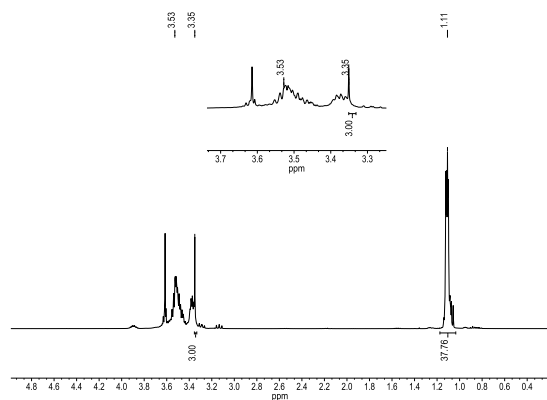
Synthesis Procedure:

The polymer was prepared by RAFT polymerization of styrene, 4-vinylpyridine, and poly(propylene glycol) methyl ether methacrylate (M_n[PPO]=750 g/mol).

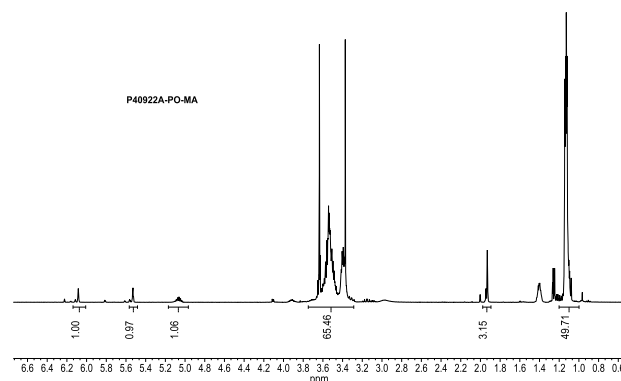
Characterization:

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

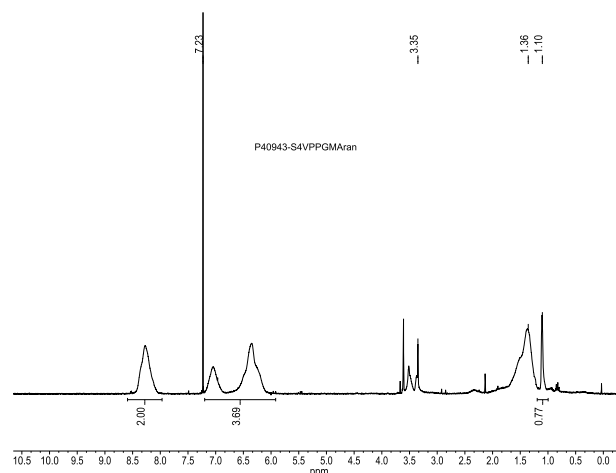
¹H-NMR spectrum of poly (propylene oxide) methyl ether:



¹H-NMR spectrum of poly([propylene oxide methyl ether] methacrylate):



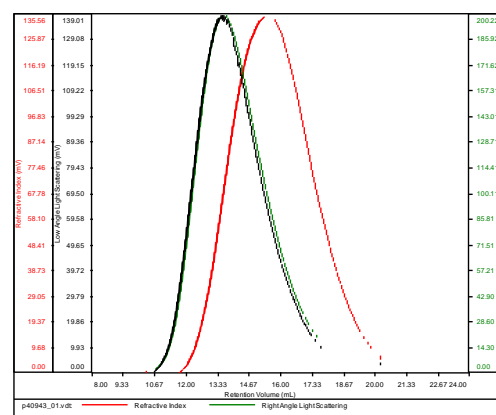
¹H-NMR Spectrum of the random copolymer:



SEC of the random copolymer:

P40943

Conc	15.6556
dn/dc	0.1530
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k_2018-01-24-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
p40943_01.vdt	74,757	168,532	95,258	2.254	0.3041