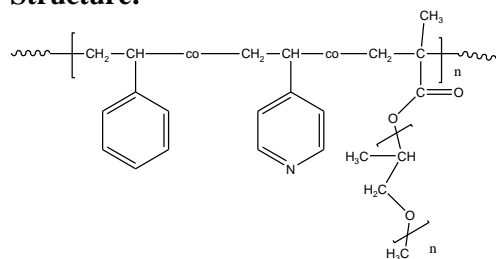


Sample Name: Random Copolymer Poly(styrene-co-4-vinylpyridine-co-propylene glycol methyl ether methacrylate)

Sample #: P40997-S4VPPGMAn

Structure:



Composition:

Mn x 10 ³ PS-co-P4VP-co-PGMA	PDI
55.0	1.7
S:4VP:PGMA mole ratio	7:52:41
Mn of Propylene glycol methyl ether methacrylate : ~2000	Values of n : 34 units

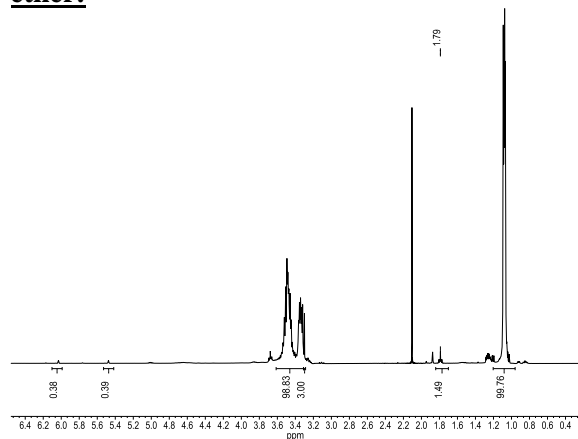
Synthesis Procedure:

The polymer was prepared by RAFT polymerization of styrene, 4-vinylpyridine, and poly(propylene glycol) methyl ether methacrylate (M_n[PPO]=2000 g/mol). Lot P40994

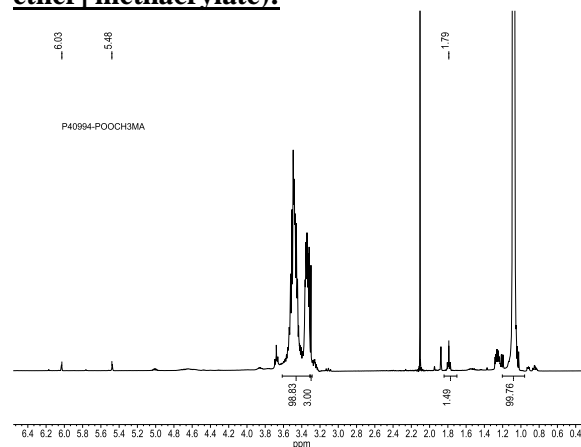
Characterization:

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

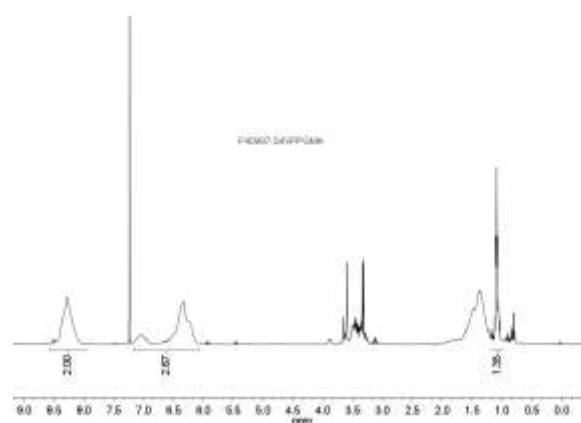
¹H-NMR spectrum of poly (propylene oxide) methyl ether:



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



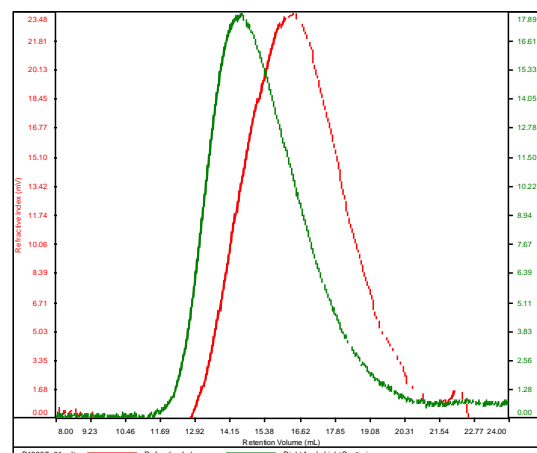
¹H-NMR Spectrum of the random copolymer:



SEC of the random copolymer:

P40997-S4VPPGMAn

Conc	2.4689
dn/dc	0.1650
Solvent	DMF w 0.023MLBr
Flow Rate	0.7000
Method	PS80K_2018-03-09-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P40997_01.vdt	55,529	94,033	59,986	1.693	0.3396