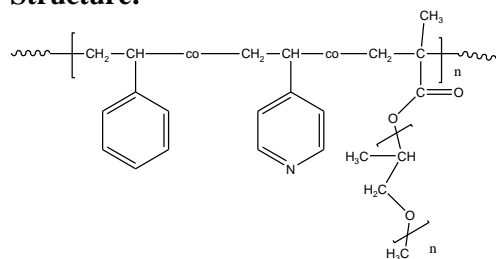


**Sample Name:** Random Copolymer Poly(styrene-co-4-vinylpyridine-co-propylene glycol methyl ether methacrylate)

**Sample #:** P41001-S4VPPGMAran

**Structure:**



**Composition:**

Mn x 10 <sup>3</sup> PS-co-P4VP-co-PGMA	PDI
49.5	1.5
S:4VP:PGMA mole ratio	10:76:14
Mn of Propylene glycol methyl ether methacrylate : ~2000	Values of n : 34 units

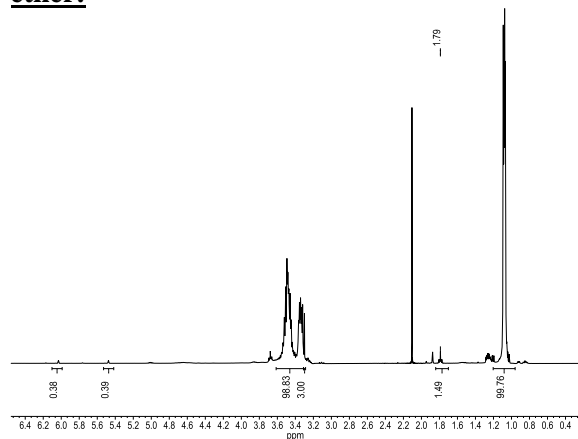
**Synthesis Procedure:**

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

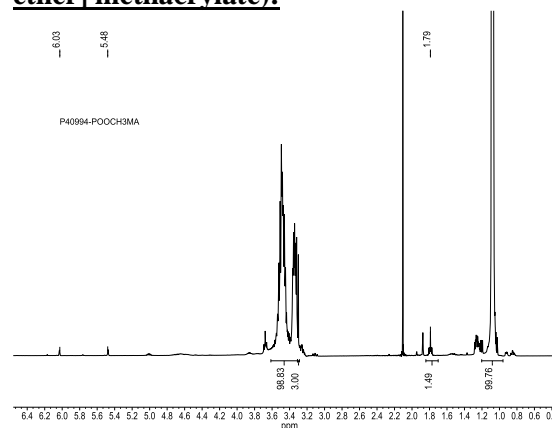
**Characterization:**

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

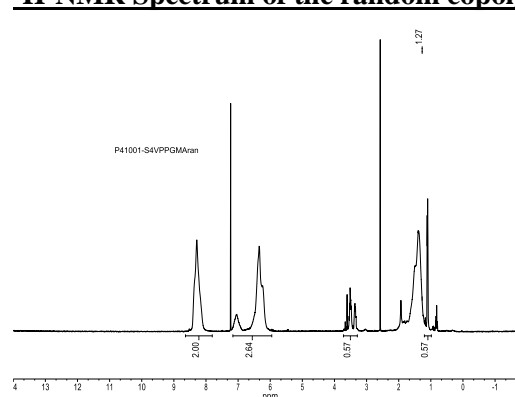
**<sup>1</sup>H-NMR spectrum of poly (propylene oxide) methyl ether:**



**<sup>1</sup>H-NMR spectrum of poly ([propylene oxide methyl ether] methacrylate):**



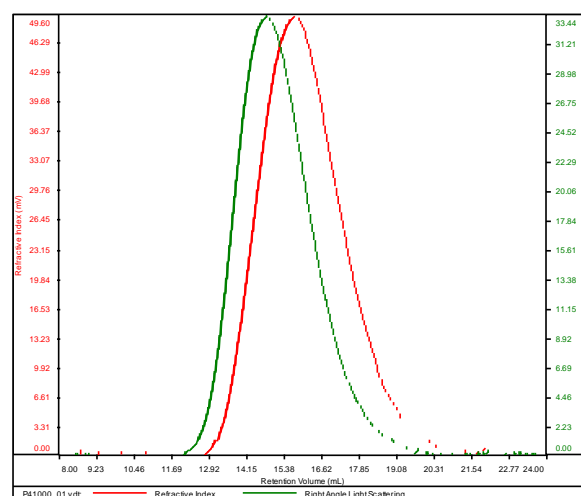
**<sup>1</sup>H-NMR Spectrum of the random copolymer:**



**SEC of the random copolymer:**

P41001-S4VPPGMAran

Conc	4.0919
dn/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS80k_2018-03-09-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41000_01.vdt	49,403	74,680	63,960	1.512	0.2729