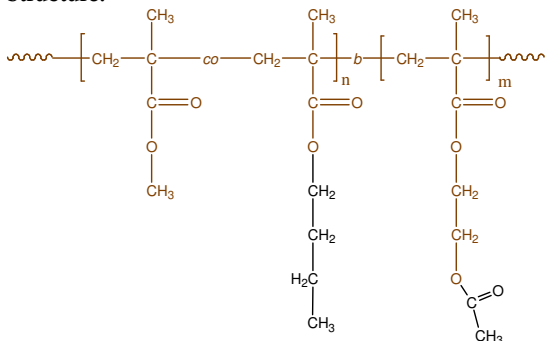


Poly(Methyl methacrylate -co-n-butyl methacrylate random -b-2-Acetylate ethyl methacrylate)

Sample #: P11499B-MMAnBuMAran-b-HEMAAcet
Structure:



Composition:

Mn $\times 10^3$ MMAnBuMAran-b-HEMAAcet	PDI
19.0-b-34.0	1.18
MMA:nBuMA	60:40

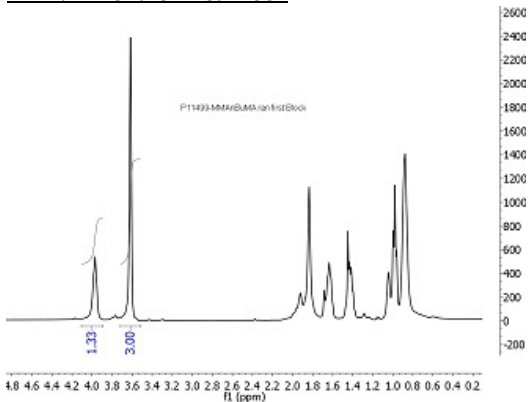
Synthesis Procedure:

Poly(methylmethacrylate-*n*-butyl methacrylate random-*b*-2-hydroxyethyl methacrylate) block copolymer is synthesized by living anionic polymerization with sequential addition of a mixture of MMA and *n*-butyl methacrylate followed by adding protecting hydroxyl HEMA (trimethyl siloxy ethyl methacrylate monomer).

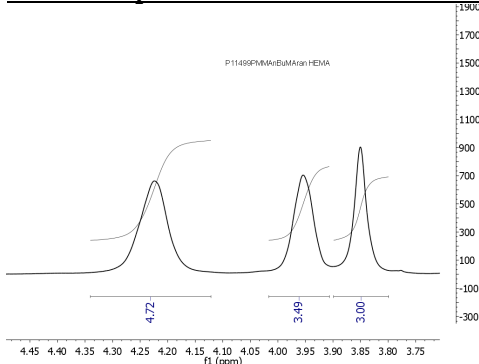
Characterization:

SEC analysis of the obtained block copolymer in THF and in DMF

¹H NMR of the First Block



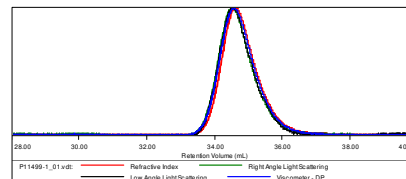
H-NMR Spectrum of the random copolymer:



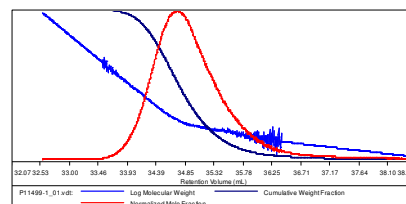
SEC of the random copolymer:

Sample ID: P11499-1-MMAAnBuMA

Concentration (mg/mL)	8.0623
Sample divid (mL/g)	0.0800
Method File	PS80K-May-2013-0000.vcm
Column Set	3x PL 1113-6300
System	System 1

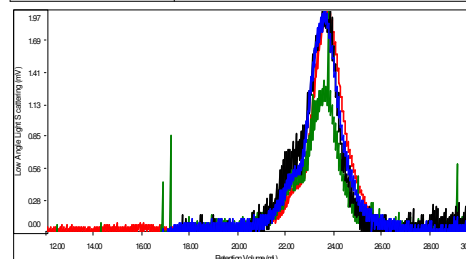


Sample	Mn	Mw	Mp	Mw/Mn	IV
P11499-1_01.vdt	19,038	20,136	19,771	1.058	0.2613



Sample ID: P11499-MMAAnBuMA-HEMAAcetylated

Concentration (mg/mL)	2.2577
Sample dn/dc (mL/g)	0.0700
Method File	PS80K-Apr15/2014-0000.vom
Column Set	3x PL 1113-6300
System	System 1



Sample	Mn	Mw	Mp	Mw/Mn	IV
P1149-MMA-BnMA-HMA-Acetylated_01	56,958	67,240	58,677	1.181	0.0691

