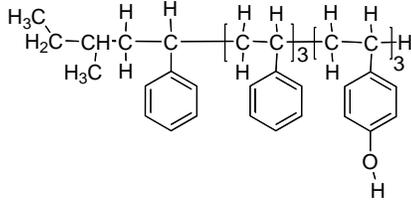


Sample Name: Poly (styrene-b-4-hydroxy styrene)

Sample #: P41155-S4OHS

Structure:

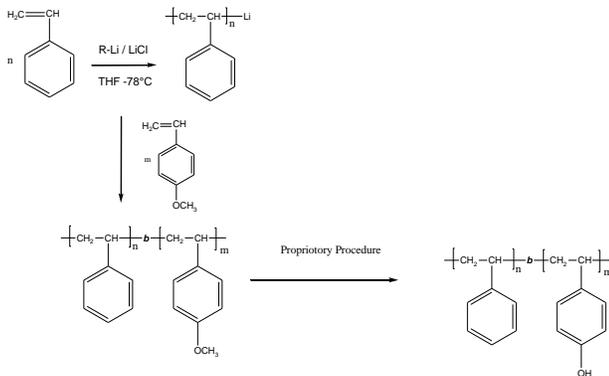


Composition:

Mn x 10 ³ S-b-4HOS	Mw/Mn (PDI)
1.1-b-4.2	1.09

Synthesis Procedure:

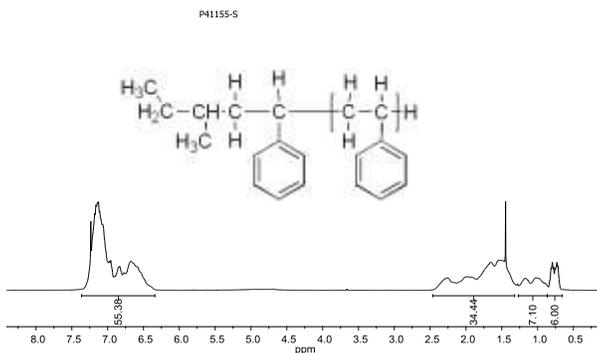
The following reaction scheme shows how the product was prepared:



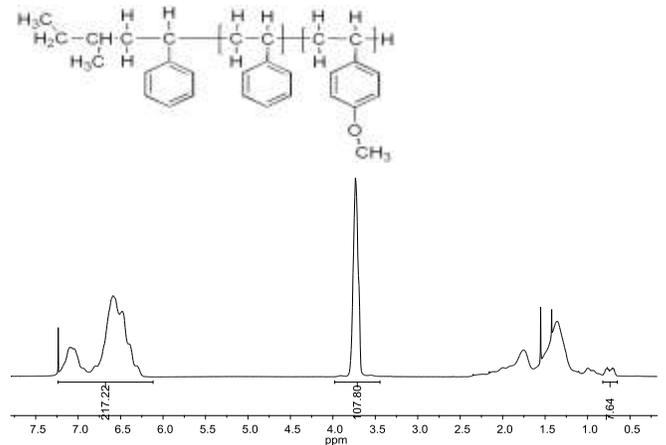
Characterization:

The product was characterized by size exclusion chromatography (SEC), ¹H NMR and FTIR.

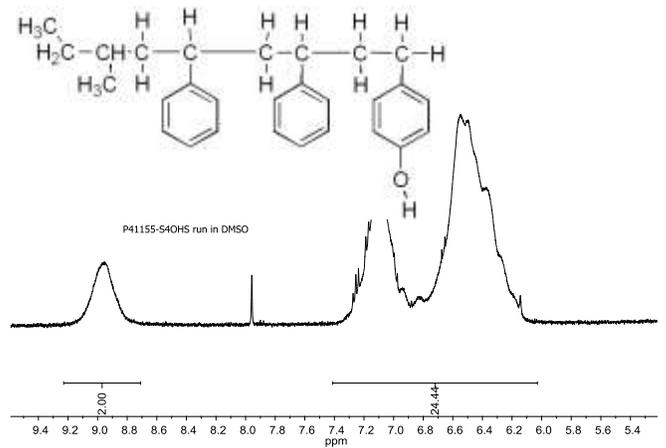
¹H NMR spectrum of S Block:



¹H NMR spectrum of the P(S-b-4MeOS):

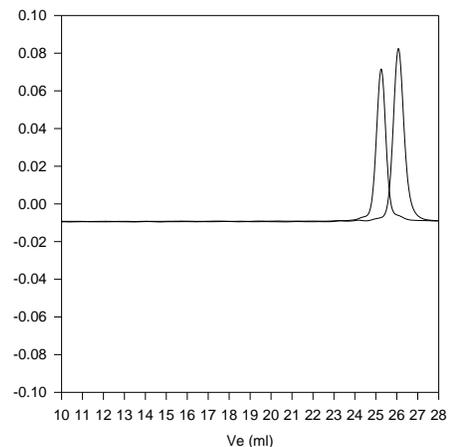


¹H NMR spectrum of the P(S-b-4OHS):



SEC profile of the block copolymer

P41155-S4CH3OS
(precursor for P41155-S4OHS)



— Polystyrene, M_n=1,100, M_w=1,200, PI=1.04
 — Block Copolymer PS(1200)-b-P4MeOS(4700), PI=1.09
 After deprotecting OCH₃ Mn: (1,100-b-4,200) Mw/Mn 1.09