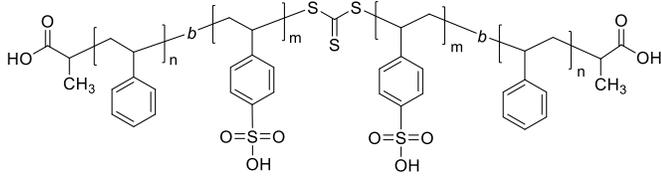


Sample Name: Poly (styrene-*b*-4-styrene sulfonic acid-*b*-styrene) triblock copolymer with RAFT moiety in center

Sample #: P16415-S-SO3H-S

Structure:



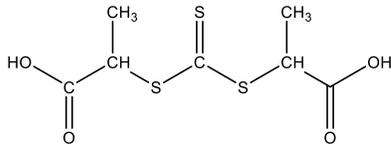
Composition:

Mn x 10 ³ S-b-SSO3H-b-S	PDI
3.5-b-1.5- b-3.5	1.08

Synthesis Procedure:

The polymer was synthesized by RAFT process using following bifunctional initiator:

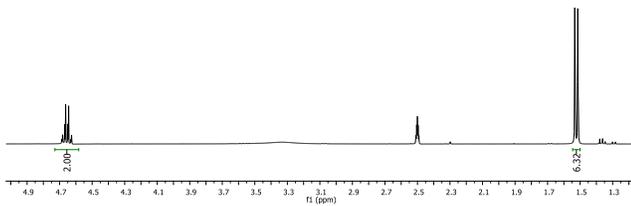
Structure:



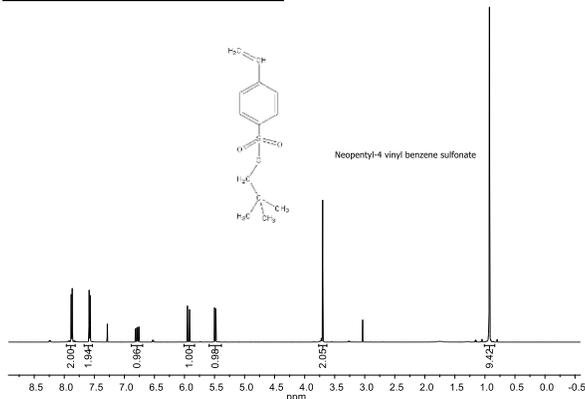
Characterization:

The chemical structure of the product was confirmed by FT-IR and ¹H NMR and GPC in DMF.

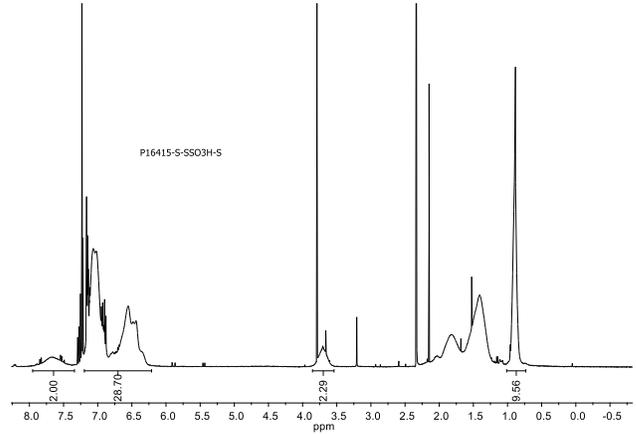
¹H NMR (400 MHz, DMSO-d₆) of RAFT



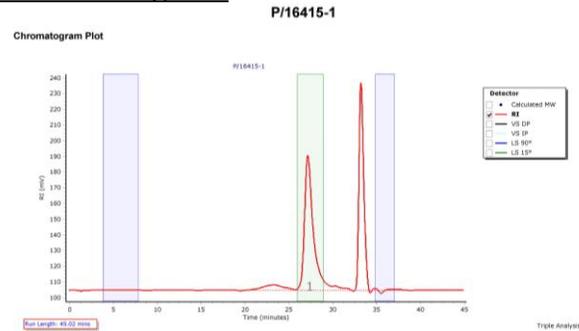
¹H NMR of Monomer:



¹H NMR spectrum of Triblock copolymer:



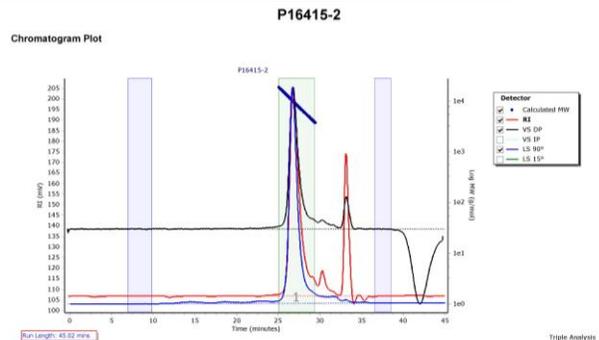
SEC chromatogram:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	8042	6915	7414	7862	8256	7736	1.072

Processing Parameters
 Method: Last modified by Polymer Source at 3:21:24 PM on February-19-19
 Concentration Detector Used in Analysis: RI
 Injection volume (μL): 100.00
 Flow rate (mL/min): 1.00
 Concentration options: Calculate Sample Concentration from Entered Sample Properties
 Entered dn/dc (mL/g): 0.184

SEC chromatogram of triblock copolymer:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	9081	8365	8920	9527	10000	9424	1.075

Processing Parameters
 Method: Last modified by Polymer Source at 3:21:24 PM on February-19-19
 Concentration Detector Used in Analysis: RI
 Injection volume (μL): 100.00
 Flow rate (mL/min): 1.00
 Concentration options: Calculate Sample Concentration from Entered Sample Properties
 Entered dn/dc (mL/g): 0.184

After Thermolysis of Neopentyl Group Mn: about 1500