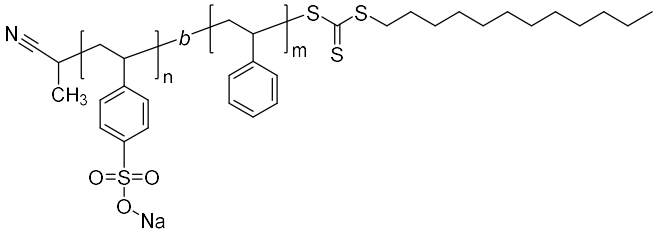


Sample Name: Poly (Styrene sulfonic acid sodium salt-b-styrene)

Sample #: P16413-SSO3Na-S

Structure:

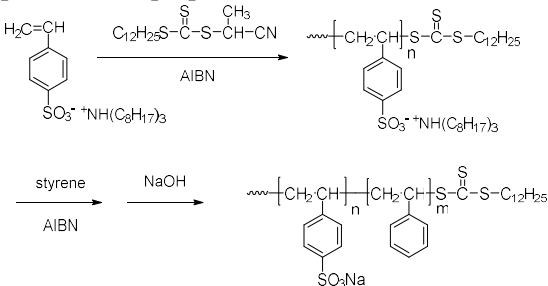


Composition:

Mn × 10 ³ PSSO3Na-S	PDI
8.0-b-7.0	1.06

Synthesis Procedure:

The polymer was synthesized by RAFT polymerization process. The following reaction scheme shows how the product was prepared:



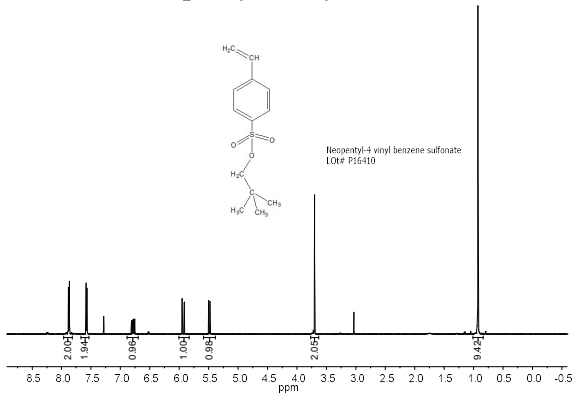
Characterization:

The product was characterized by size exclusion chromatography (SEC) in DMF as eluent and ¹H NMR.

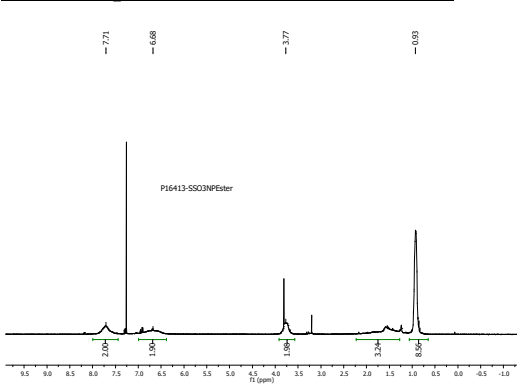
Solubility:

The polymer is soluble in DMSO.

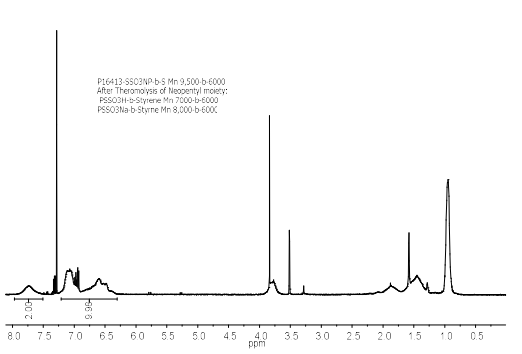
HNMR of Neopentyl-4-styrene sulfonate monomer:



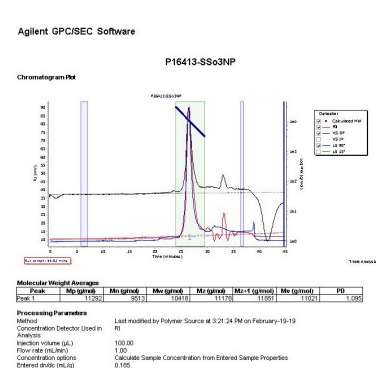
HNMR spectrum of the First Block:



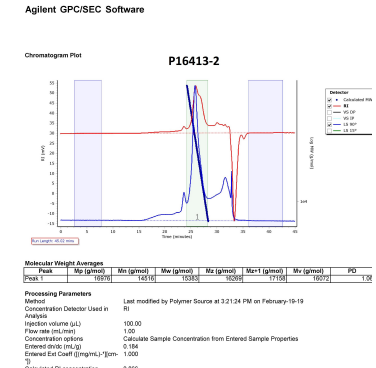
HNMR spectrum of the SSO3NP-b-S:



SEC of the first block Poly 4-SSO3NP Ester:



**After Thermal Hydrolysis: Mn 7,000
Sodium salt: Mn 8,000**



For SSO3Na-b-S Mn 8,000-b-7,000