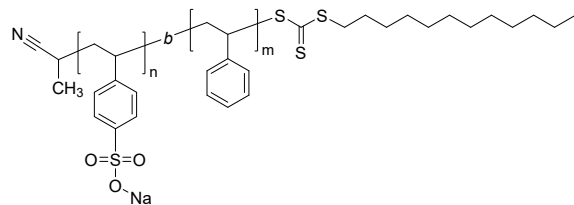


Sample Name: Poly (Styrene sulfonic acid sodium salt-b-styrene)

Sample #: P41852-SSO3Na-S

Structure:

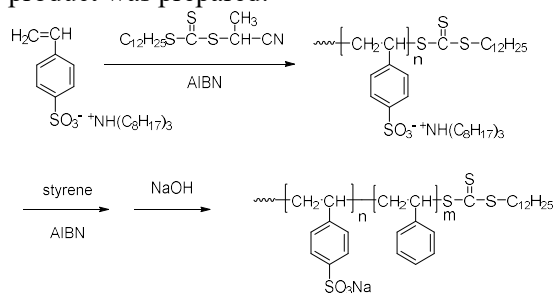


Composition:

Mn × 10 ³ PSSO3Na-S	PDI
5.5-b-11.0	1.05

Synthesis Procedure:

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



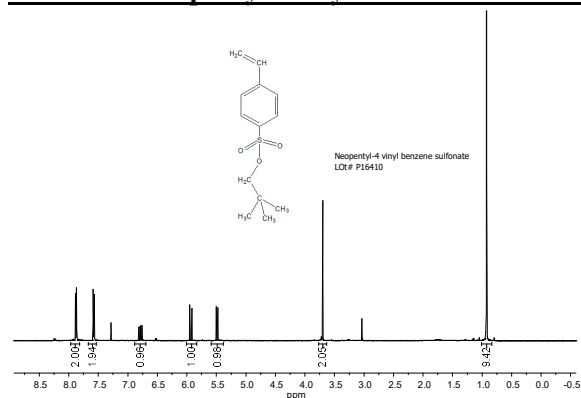
Characterization:

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

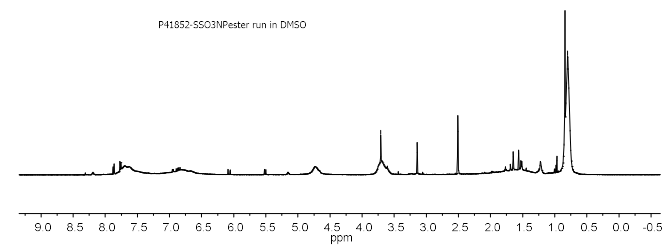
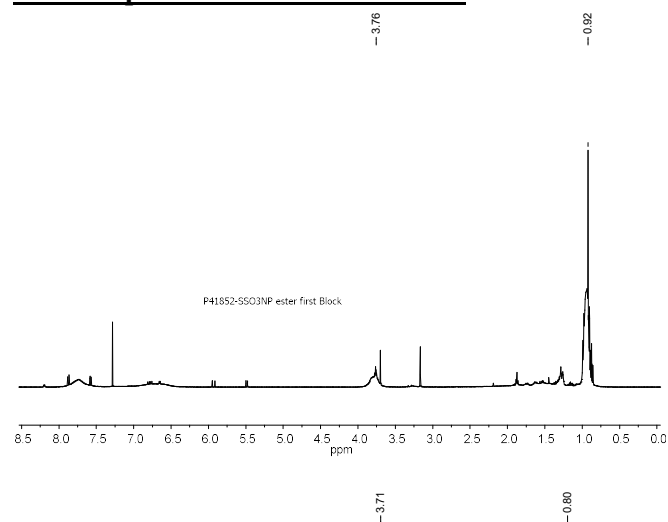
Solubility:

The polymer is soluble in DMSO.

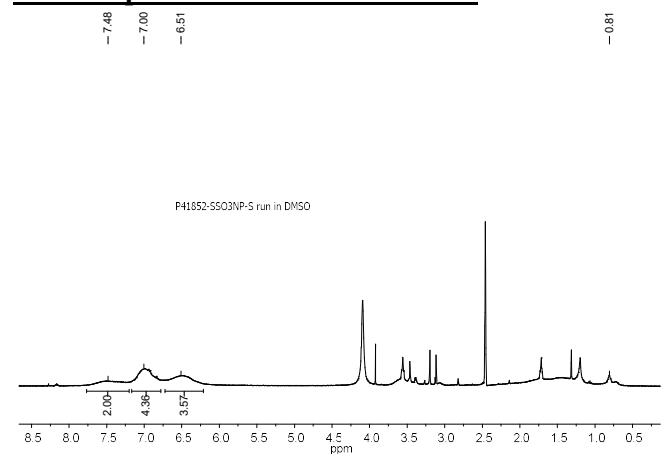
HNMR of Neopentyl-4-styrene sulfonate monomer:



HNMR spectrum of the First Block:

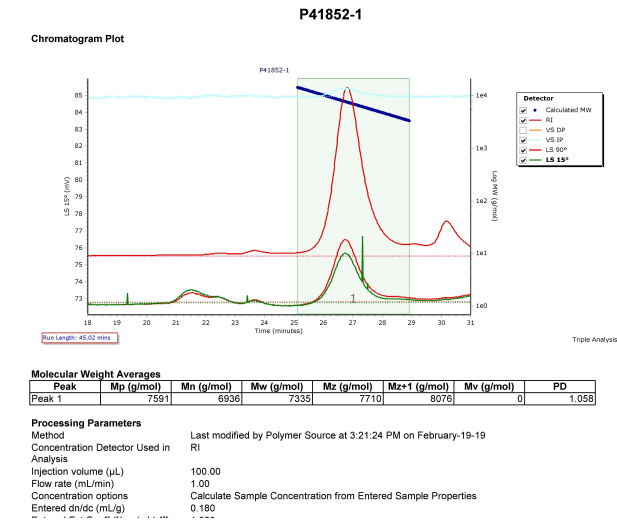


HNMR spectrum of the SSO3NP-b-S



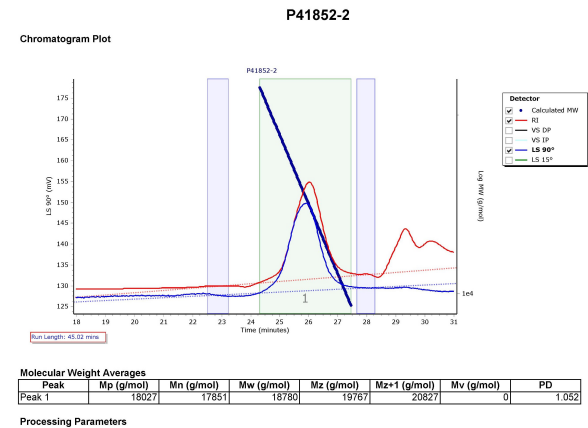
SEC of the first block Poly 4-SSO3NP ester

Agilent GPC/SEC Software



After Thermal Hydrolysis: Mn 5000
Sodium salt: Mn 5,500

Agilent GPC/SEC Software



For PSSO3Na-b-S Mn: 5500-b-11,000