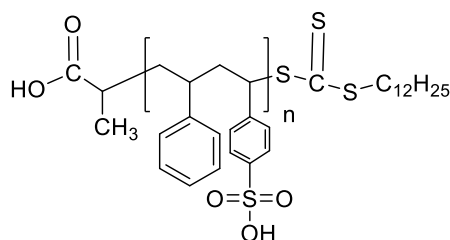


Sample Name:  
**POLY(STYRENE-CO-4-STYRENE SULFONIC  
 ACID)-RAFT-agent terminated**

Sample #: **P42608A-SSSO3H**

**Structure:**

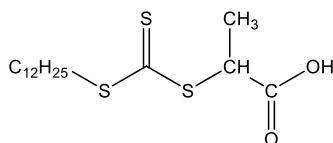


**Composition:**

$M_n \times 10^3$	PDI
34.5	1.06
Sulfonation	28%

**Synthesis Procedure:**

The polymer is prepared by RAFT polymerization process using following RAFT reagent:

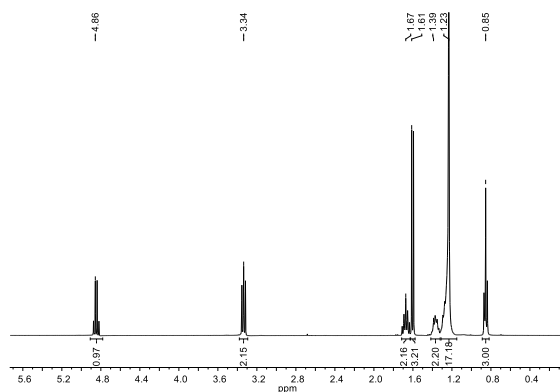


Chemical Formula:  $C_{16}H_{30}O_2S_3$   
 Molecular Weight: 350.59

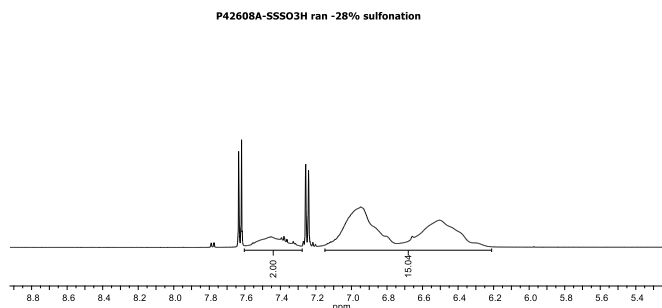
**Characterization:**

The molecular weight and polydispersity index(PDI) of the polymer are obtained by size exclusion chromatography (SEC) in THF as eluent.

**$^1H$ -NMR spectrum of the RAFT ( $CDCl_3$ ):**

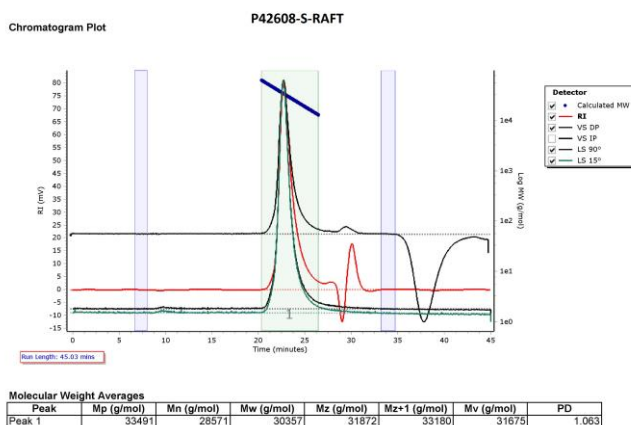


**$^1H$ -NMR spectrum of the Polymer: First random block:**



**SEC elugram of the PS-RAFT starting polymer:**

Agilent GPC/SEC Software



% sulfonation : 28%  $M_n$  34,500