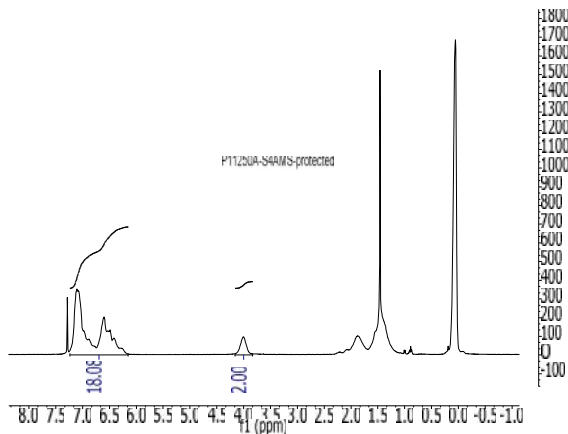
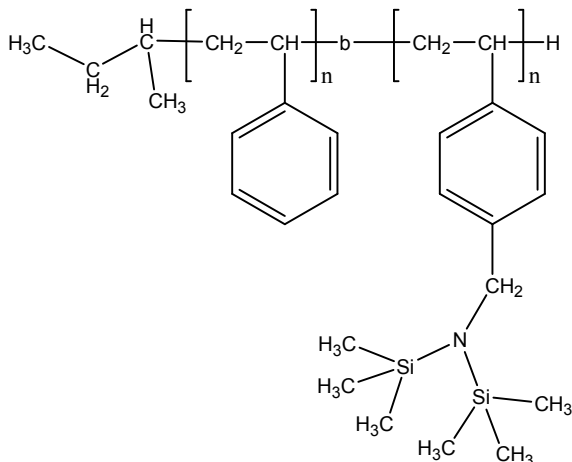


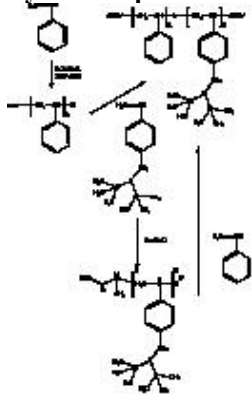
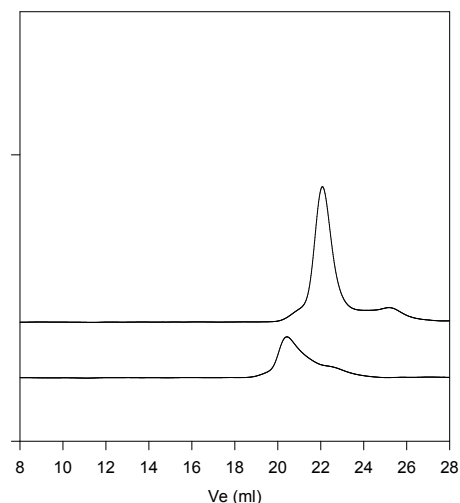
Sample Name:**Poly(styrene-b-4-(N,N-bis (trimethylsilyl) aminomethyl) styrene)****Sample #:** P11250A-S4AMS-Protected**Structure:****Solubility of the polymer**

Poly(styrene-b- 4-(N,N-bis (trimethylsilyl) aminomethyl) styrene) polymer (protected Amino compound) is soluble in THF, CHCl₃, Toluene. Once the trimethyl silyl group removed the free amino methyl styrene block polymer was found insoluble in most of the solvents:

SEC profile of the block copolymer**Composition:**

Mn x 10 ³ S-b-4AMSProtected	Mw/Mn (PDI)
30.0-b-30.0	1.25

Synthesis Procedure: First 4-(N,N-bis (trimethylsilyl) aminomethyl) styrene) monomer polymerized followed by addition of styrene

By anionic process:**P11250A-S4AMS (protected amino group)**

Size exclusion chromatography of
poly(styrene-b-4-(N,N-bis (trimethylsilyl) aminomethyl)styrene

— 4-NN-Bis Trimethyl silyl amino methyl styrene, M_n=30,000 Mw= 36,500 PI=1.11
— 4-(N,N-bis (trimethylsilyl) aminomethyl)styrene (30,000)-b-Styrene 30,000,PI=1.25

Characterization:

Polymer analyzed by size exclusion chromatography (SEC) to obtain the molecular weight and polydispersity index (PDI). The final block copolymer composition was calculated from ¹H-NMR spectroscopy by comparing the peak area of the styrene protons at 6.3-7.2 ppm with the peak area at 3.76. HNMR analysis was carried out in CdCl₃ for the amino protected group with trimethyl silyl groups. Block copolymer PDI is determined by SEC.