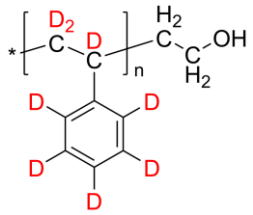
Sample Name: **Deuterated Poly(styrene-d8), ω-hydroxy-terminated**

Sample #: **P43596-dPSOH**

Structure:



Composition:

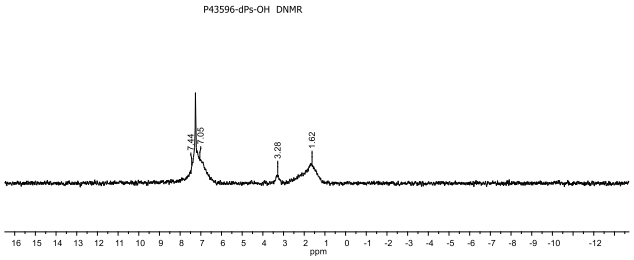
Mn x 10^3	PDI
3.0	1.4

Synthesis Procedure:
ω-Hydroxy Terminated deuterated polystyrene was prepared by living anionic polymerization of deuterated styrene using a monofunctional initiator such as Sec. butyl lithium in THF at -78 ºC followed by termination with ethylene oxide.

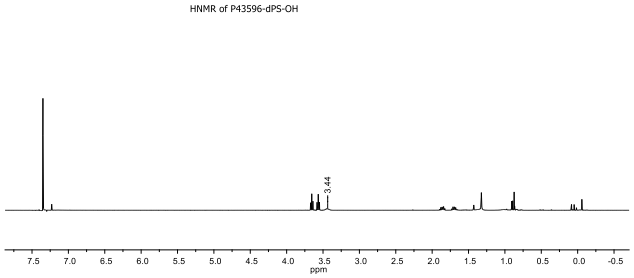
Characterization:
The product was characterized by size exclusion chromatography (SEC) and H NMR and DNMR data analysis. The molecular weight and polydispersity index of this polymer were determined by size exclusion chromatography (SEC) using a Varian liquid chromatograph equipped with a UV and refractive index detector.

Solubility:
Polymer is soluble in toluene, THF, and $CHCl_3$. It can be precipitated in water, and cold methanol.

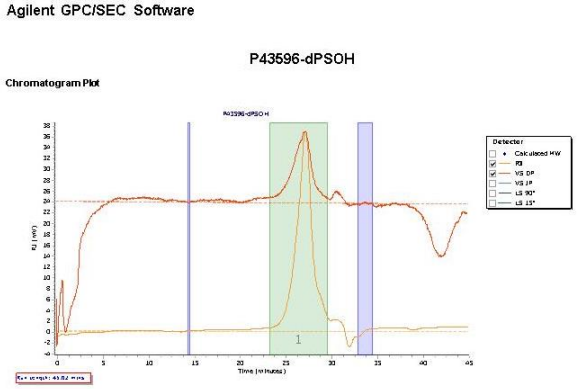
DNMR spectrum of the polymer:



HNMR spectrum of the polymer:



SEC elugram of the Sample:



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	2051	1916	2738	4281	7078	3746	1.429