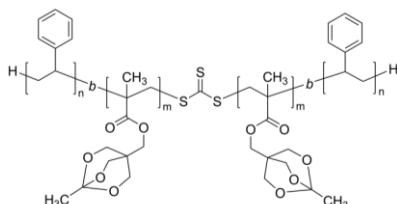


Sample Name: Poly(styrene)-b-poly(1-methyl-2,6,7-trioxabicyclo[2.2.2]octan-4-yl)methyl methacrylate)-b-poly(styrene)

Sample #: P43220-SOertMAS

Contain average 2 units of ORTHO erythritol methacrylate

Structure:

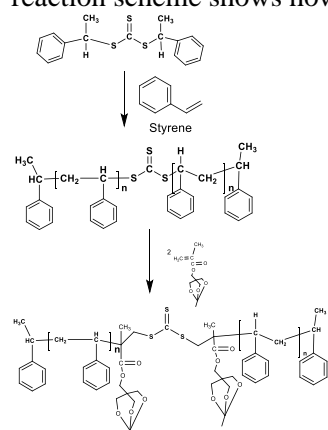


Composition:

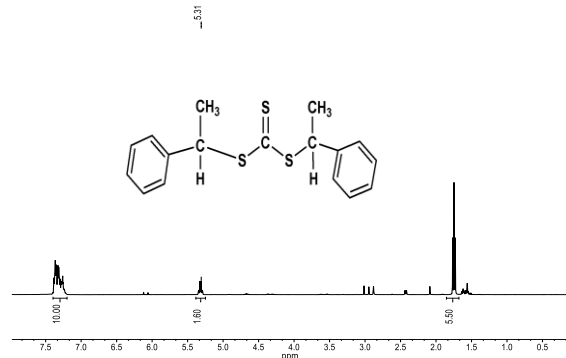
Mn x 10 ³	PDI
4.5-b-0.45-b-4.5	1.05

Synthesis Procedure:

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



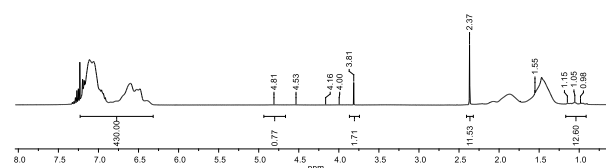
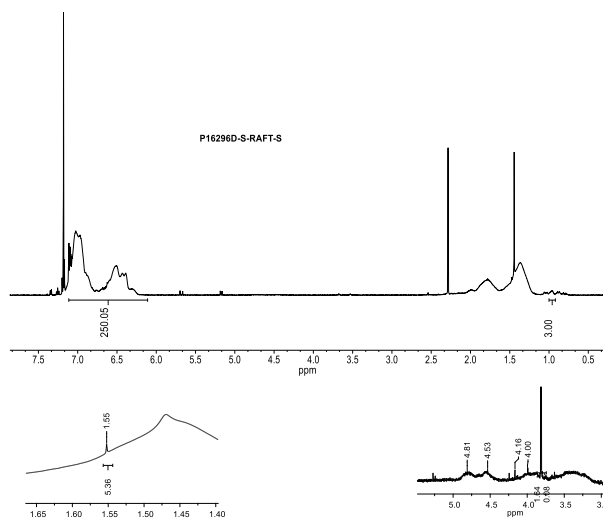
¹H NMR spectrum of the RAFT reagent:



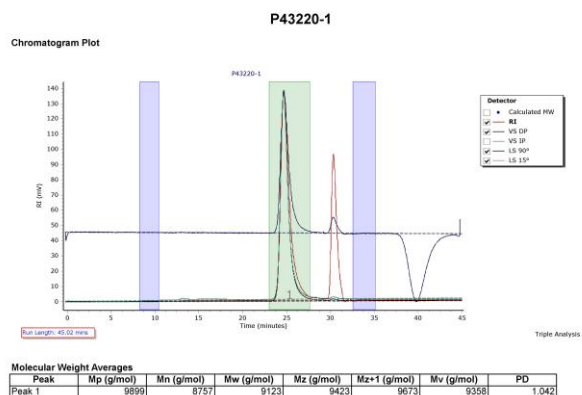
Characterization:

The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography (SEC), and ¹HNMR analysis.

¹HNMR spectrum of the Polymer (RAFT moiety in the center)



SEC elugram of the polymer:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	9899	8757	9123	9423	9673	9358	1.042