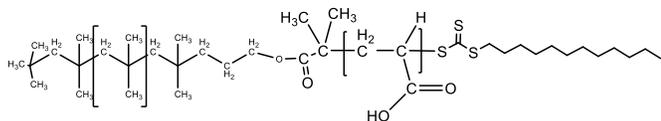


**Sample Name: Poly(isobutylene-b-Acrylic acid)**

**Sample #: P42367-IbAA**

**Structure:**

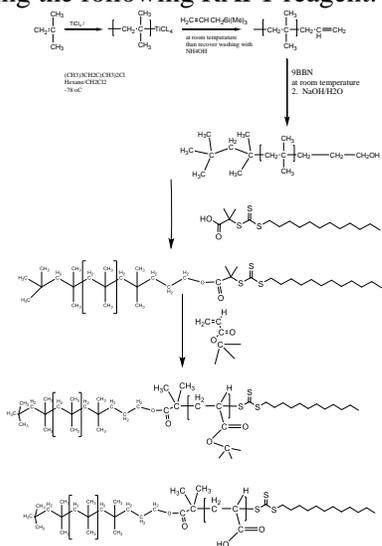


**Composition:**

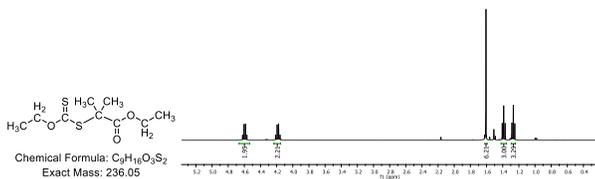
Mn × 10 <sup>3</sup> Ib-b-AA	Mw/Mn (PDI)
6.5-b-27.0	1.13

**Synthesis Procedure:**

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



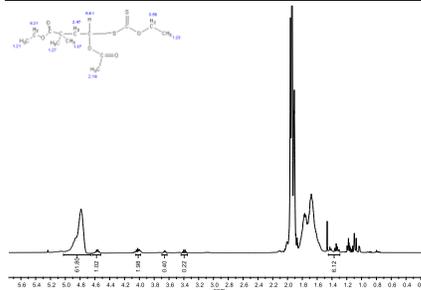
**<sup>1</sup>H NMR of RAFT (400 MHz, CDCl<sub>3</sub>):**



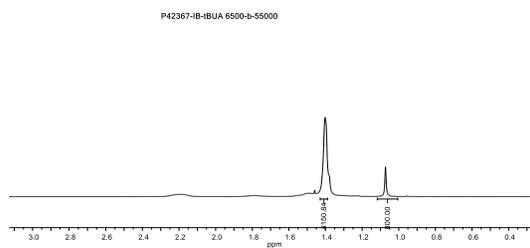
**Characterization:**

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

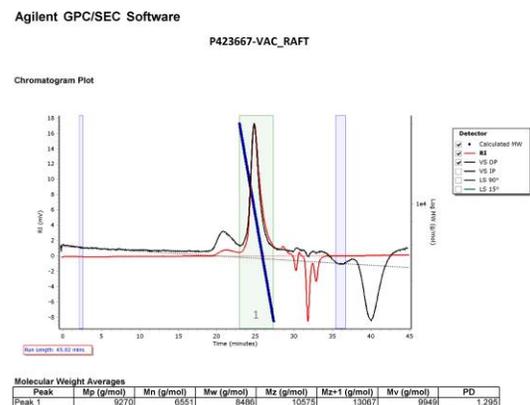
**<sup>1</sup>H NMR of Polymer (500 MHz, CdCl<sub>3</sub>):**



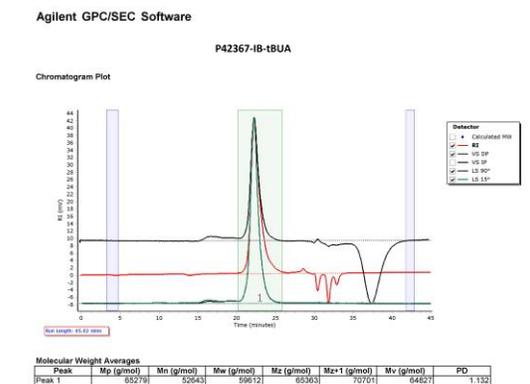
**H NMR spectrum of the IBtBuA Sample:**



**SEC elugram of the RAFT macroinitiator:**



**SEC elugram of the IBtBuA Sample:**



After Hydrolysis of tert butyl ester to Acid  
Mn 6,500-b-27,000