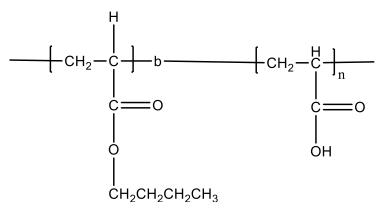


**Sample Name: Poly(n-butylacrylate-b-Acrylic acid)**

**Sample #: P42703C1-nBuAAA**

**Structure:**

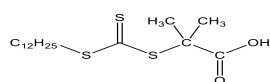


**Composition:**

Mn x 10 <sup>3</sup> PnBuA-b-tBuA	PDI
7.5-b-7.5	1.4

**Synthesis Procedure:**

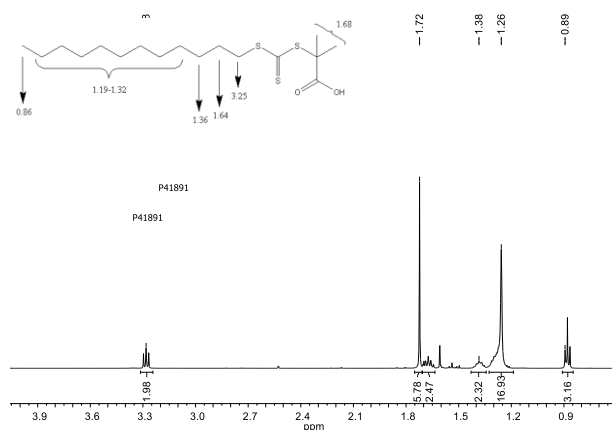
Poly(n-butylacrylate -b- acrylic acid) is prepared by RAFT process using following RAFT reagent :



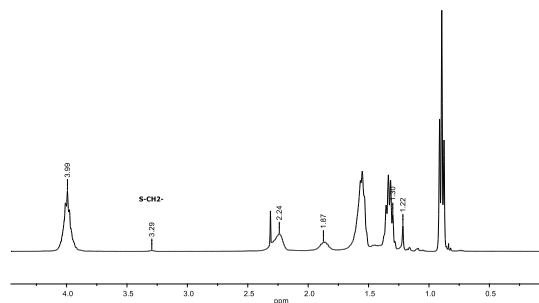
Chemical Formula: C<sub>17</sub>H<sub>33</sub>O<sub>2</sub>S<sub>3</sub>  
Molecular Weight: 364.6

**Characterization:** The product was characterized by size exclusion chromatography (SEC), <sup>1</sup>H NMR and FT-IR data analysis.

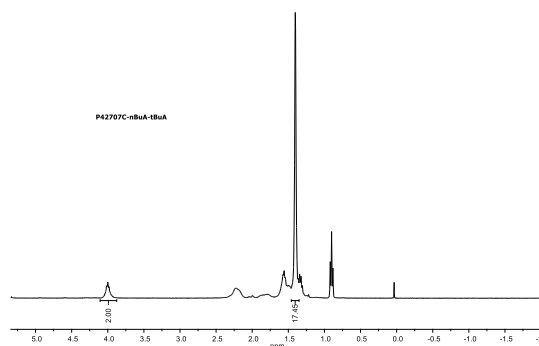
**<sup>1</sup>H-NMR spectrum of the RAFT:**



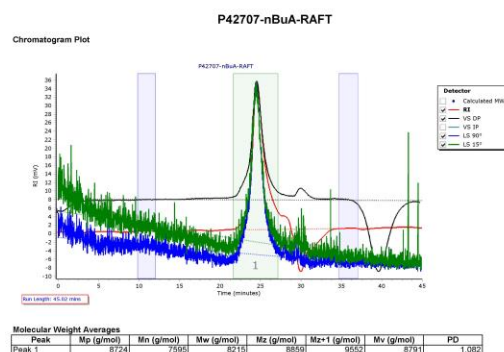
**<sup>1</sup>H-NMR spectrum of the PnBuA-RAFT:**



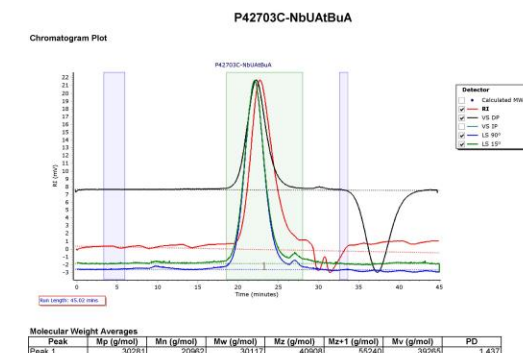
**<sup>1</sup>H-NMR spectrum of the nBuA-tBuA:**



**SEC elugram of the nBuA RAFT macroinitiator:**



**SEC elugram of the nBuA-tBuA:**



**After Hydrolysis of ter. Butyl ester Mn 7500-b-7500**