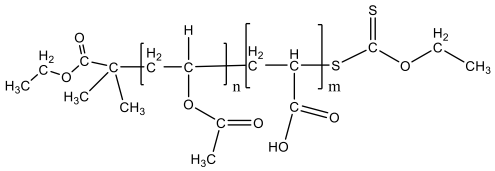
Sample Name: **Poly(vinyl acetate)-b-poly(acrylic acid)**

Sample #: **P42373-VAcAA**

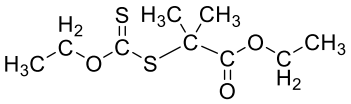
Structure:



Composition:

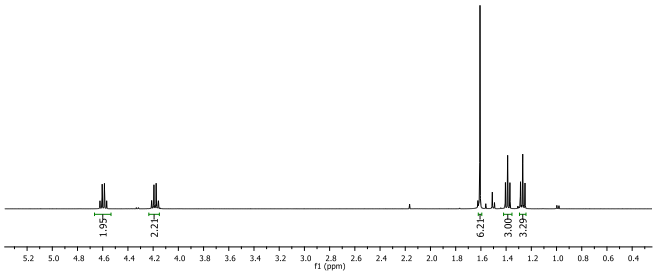
Mn × 10^3 (VAC-b-AA)	PDI
6.5-b-62.0	3.0

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



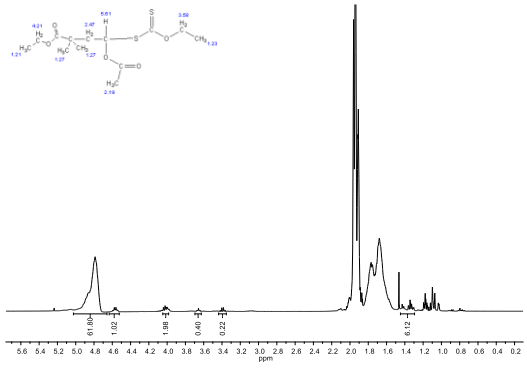
Chemical Formula: $C_9H_{16}O_3S_2$
Exact Mass: 236.05

^{1}H NMR of RAFT (400 MHz, $CDCl_3$):

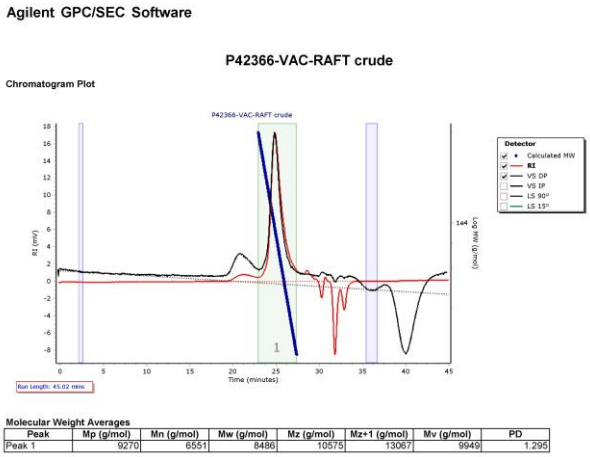


Characterization:
The molecular weight and polydispersity index (PDI) of the polymer are obtained by size exclusion chromatography (SEC) in THF as eluent.

^{1}H NMR spectrum of the Sample (500 MHz, $CdCl_3$):



SEC elugram of the Vac Block::



To calculate Mn of Poly acrylic block the polymer was trans esterified to n-Butyl ester and accordingly Polyacrylic composition calculated: