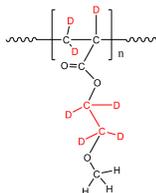


Sample Name: Deuterated Poly(2-methoxyethyl acrylate-d7)

Methoxy and backbone protons are deuterated

Sample #: P43836B-d7MeOEA

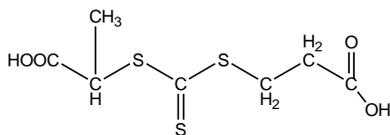
Structure:



Composition:

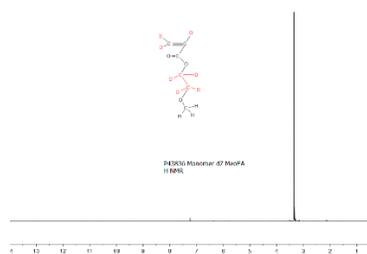
Mn x 10 ³	PDI
42	1.45

Synthesis Procedure: Polymer is obtained by RAFT polymerization process using following RAFT Reagent:

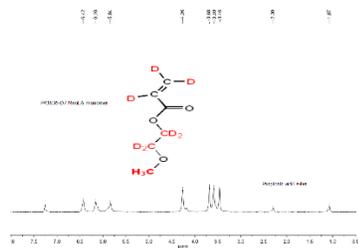


Characterization: Validation of architecture was carried out by GPC (THF) and by ¹H NMR and ²H NMR.

¹H NMR spectrum of d7 2-Methoxy ethyl acrylate monomer:

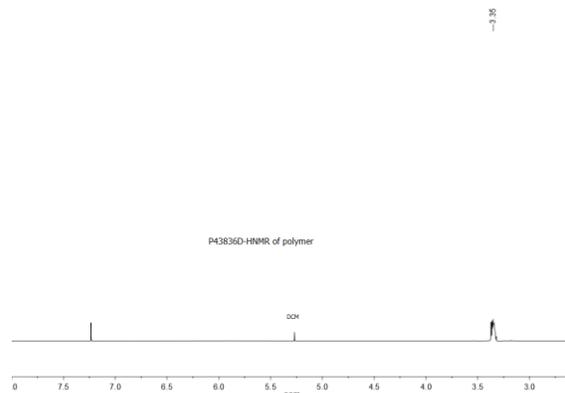


²H NMR spectrum run in CHCl₃ 400MHz:

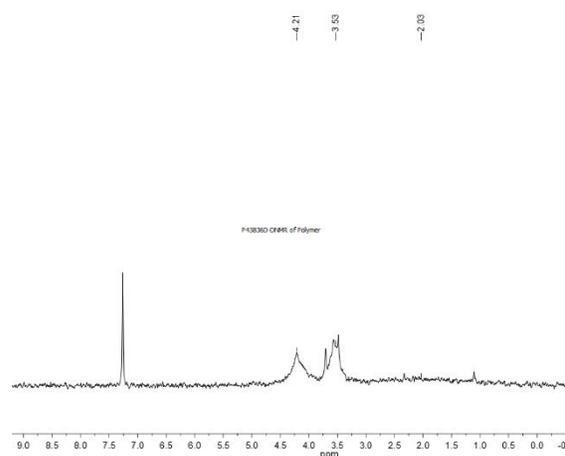


PS. The [presemnce of ester of Propionic acid do not participate in the process of polymerization but in-fact act as solvent for the process that latter wash out in the recovery of polymer.

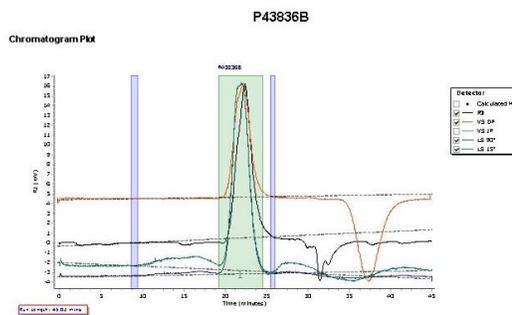
¹H NMR spectrum of Polymer:



D NMR spectrum of the final polymer



GPC elugram of Polymer Carried out in THF:



Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PDI
Peak 1	50206	42202	61182	83957	107215	79557	1.45