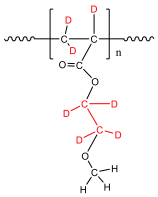
Sample Name: **Deuterated Poly(2-methoxyethyl acrylate-d7)**

Methoxy protonated and backbone, ethylene glycol protons are deuterated

Sample #: **P43836C-d7MeOEA**

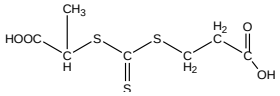
Structure:



Composition:

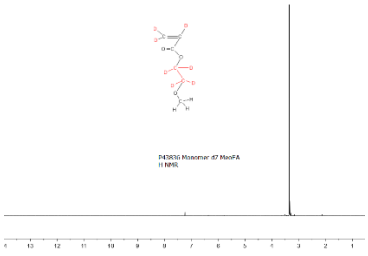
Mn x 10^3	PDI
40	1.04

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

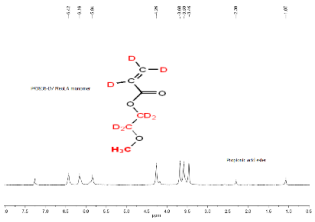


Characterization: Validation of architecture was carried out by GPC (THF) and by H^1NMR and H^2NMR.

HNMR spectrum of d7 2-Methoxy ethyl acrylate monomer:

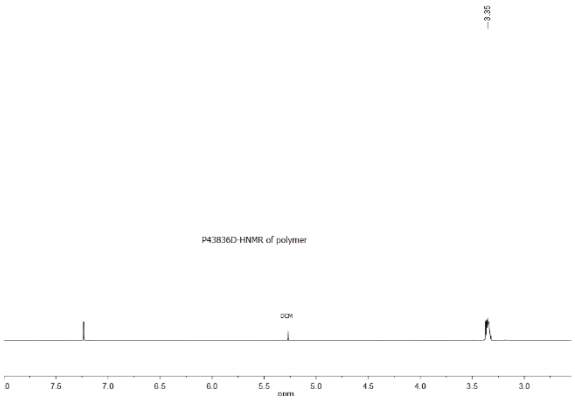


DNMR spectrum run in CHCl3 400MHz:

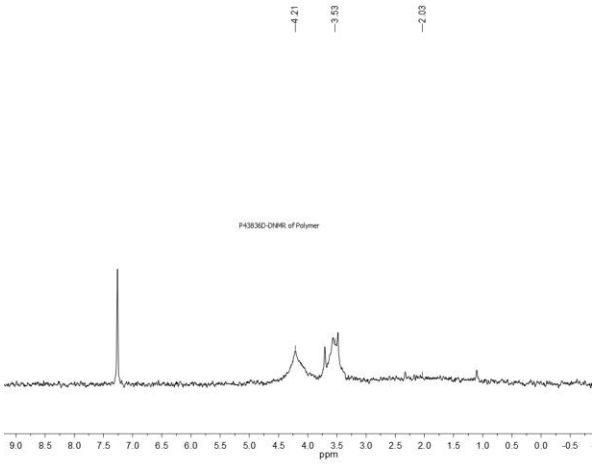


PS. The [presemnce of ester of Propionic acid do not participate in the process of polymerization but in-fact act as solvent for the process that latter wash out in the recovery of polymer.

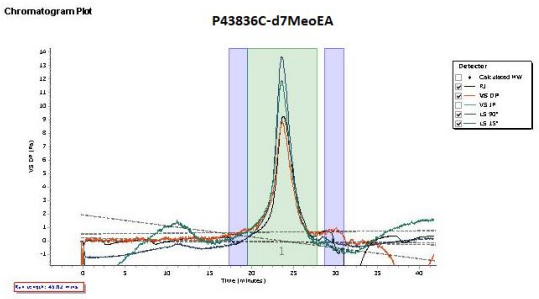
HNMR spectrum of Polymer:



D NMR spectrum of the final polymer



GPC elugram of Polymer Carried out in THF:



Molecular Weight Averages

Peak	Mp (g/mol)	Mn (g/mol)	Mw (g/mol)	Mz (g/mol)	Mz+1 (g/mol)	Mv (g/mol)	PD
Peak 1	41322	38939	41401	42998	44777	43003	1.037