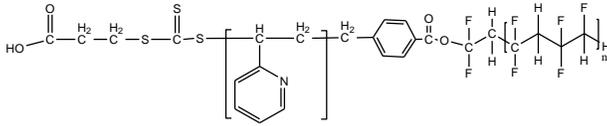


Sample Name: Block copolymer of Poly (vinylidene difluoride)-b-poly (2-vinyl pyridine)

Sample #: P41182-VDF-2VP

Structure:



Composition:

Mn x 10 ³	PDI
30.0-b-30.0	1.7
Composition by HNMR	

Synthesis procedure:

The polymer was synthesized by radical polymerization process using 4-chloromethyl benzoyl peroxide as an initiator.

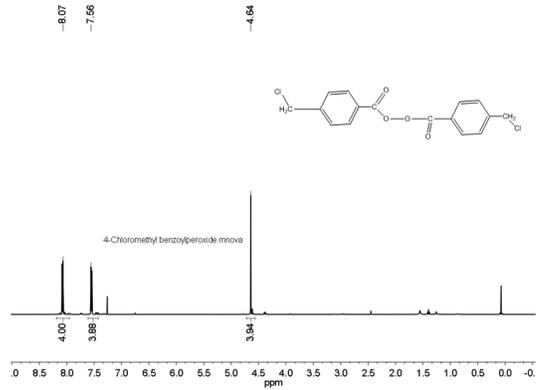
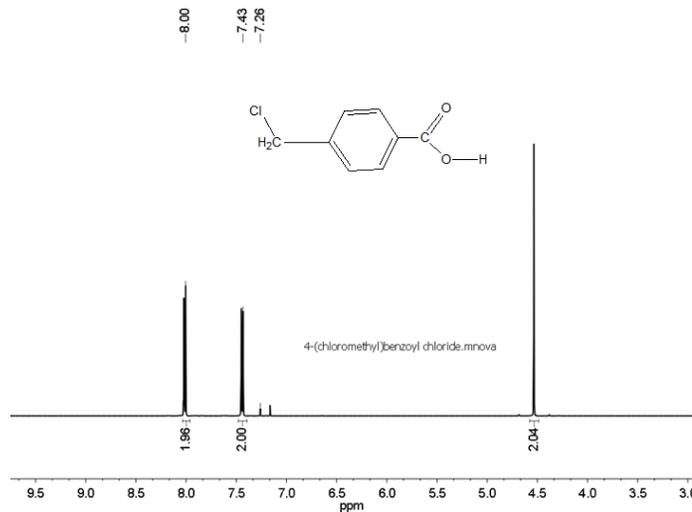
Characterization:

The product was characterized by size exclusion chromatography (SEC) runs in DMF as an eluant and ¹H NMR runs in Acetone.

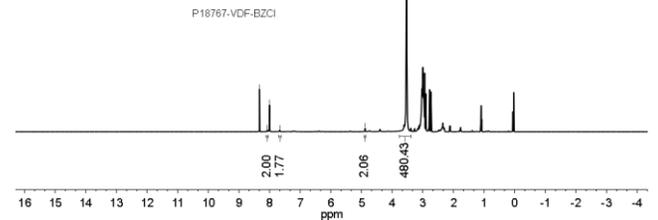
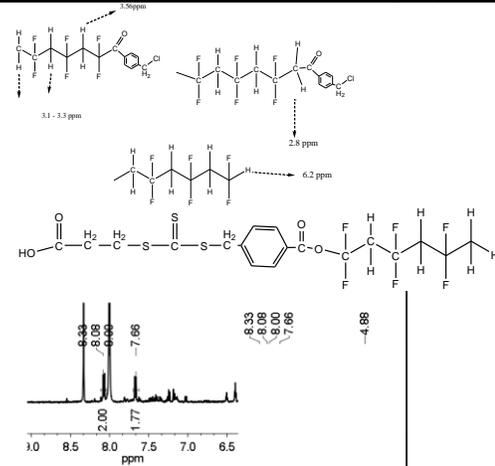
Solubility:

The polymer is soluble in dimethylformamide (DMF), Acetone and in THF.

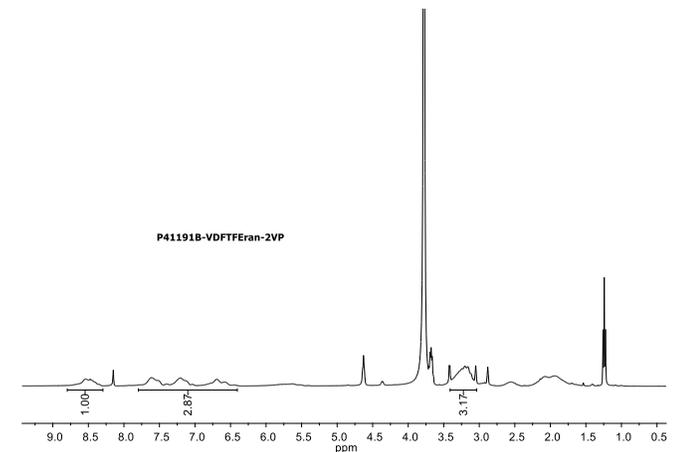
¹H NMR spectrum of the initiator and its precursor:



¹H NMR of BzCl terminated VDF prepolymer converted to RAFT end terminated polymer:



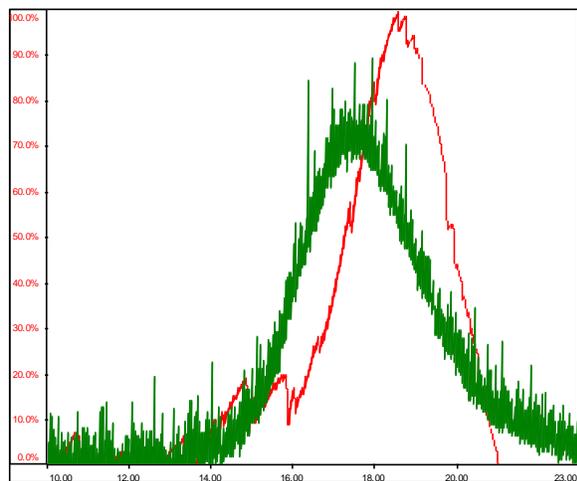
¹H NMR spectrum of the Sample:



SEC elugram of the Sample:

P41182-VDF-2VP

Conc	0.2919
dr/dc	0.1650
Solvent	DMF w 0.023M LiBr
Flow Rate	0.7000
Method	PS99k_2018-05-30-0000.vcm



Sample	Mn	Mw	Mp	Mw/Mn	IV
P41182-2_01.vdt	60,790	107,333	48,073	1.766	2.3388