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Supporting Information

First RAFT/MADIX Radical Copolymerization of *tert*-Butyl 2-Trifluoromethacrylate with Vinylidene Fluoride Controlled by Xanthate

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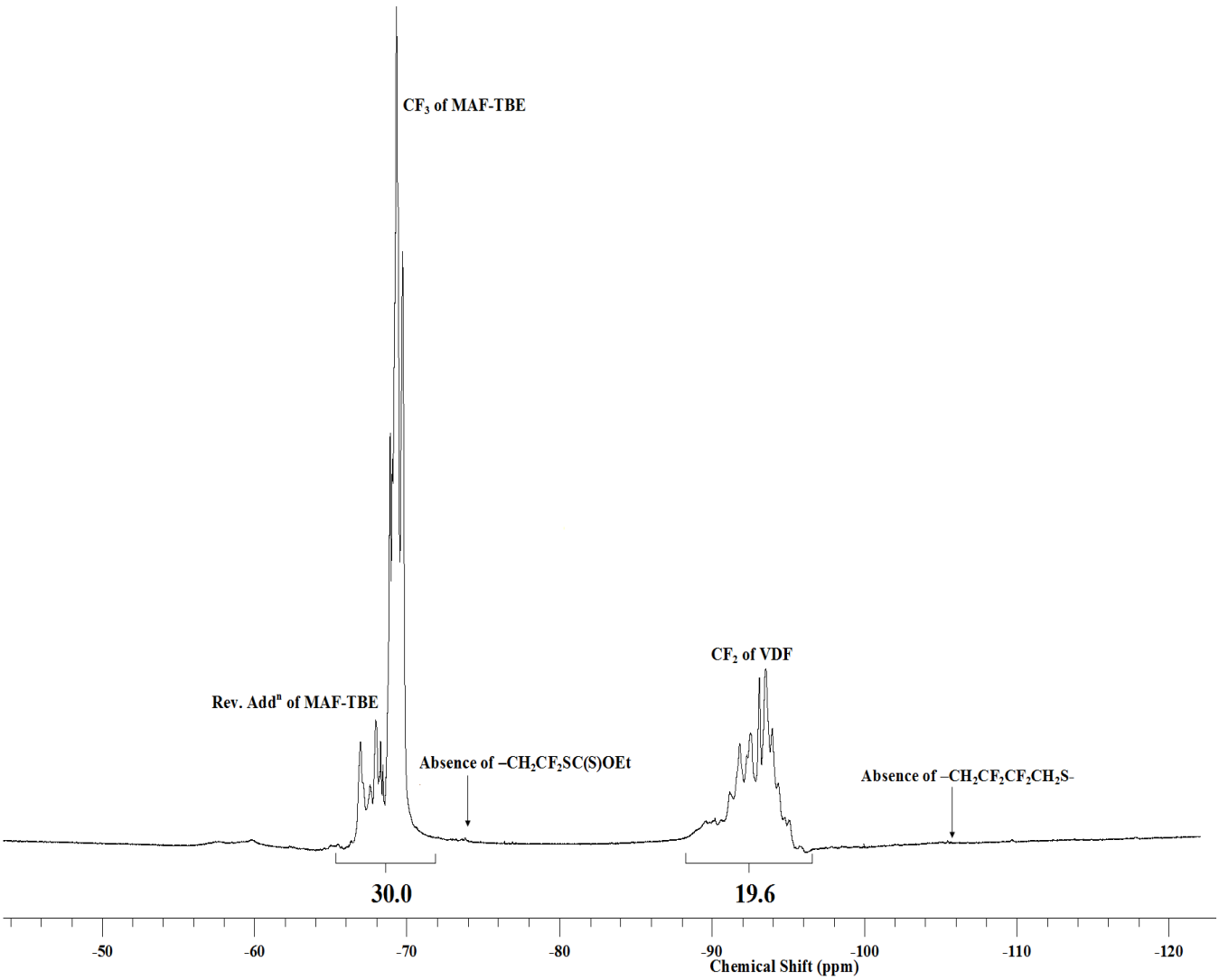

Figure S1: ^{19}F NMR spectrum (recorded in $CDCl_3$) of the poly(MAF-TBE-*co*-VDF)-*b*-PVAc block copolymer (Run 15 in Table 2).

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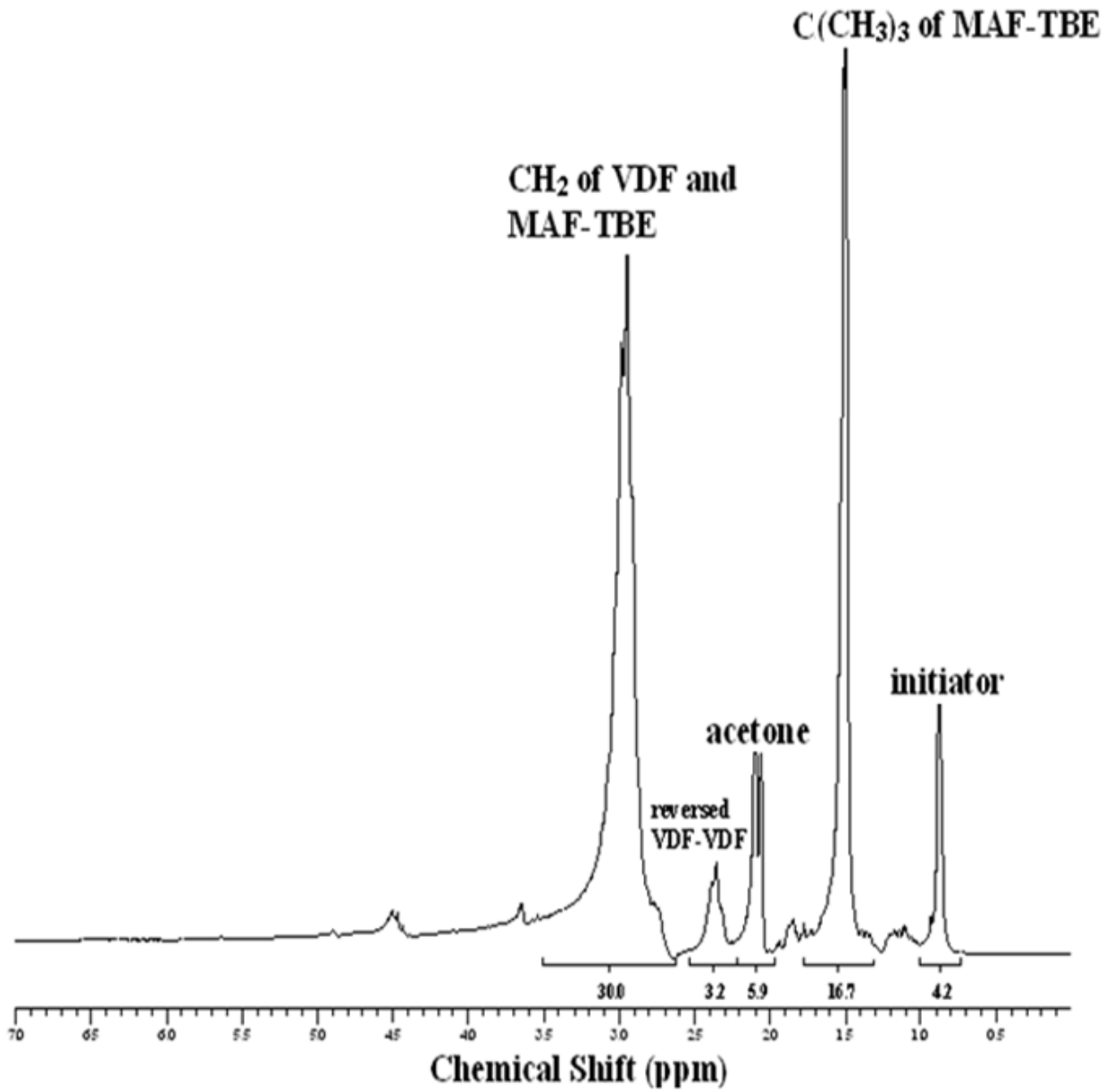

Figure S2: ^{1}H NMR spectrum (recorded in deuterated acetone) of the poly(MAF-TBE-*co*-VDF)-*b*-PVDF block copolymer (Run 16 in Table 2)

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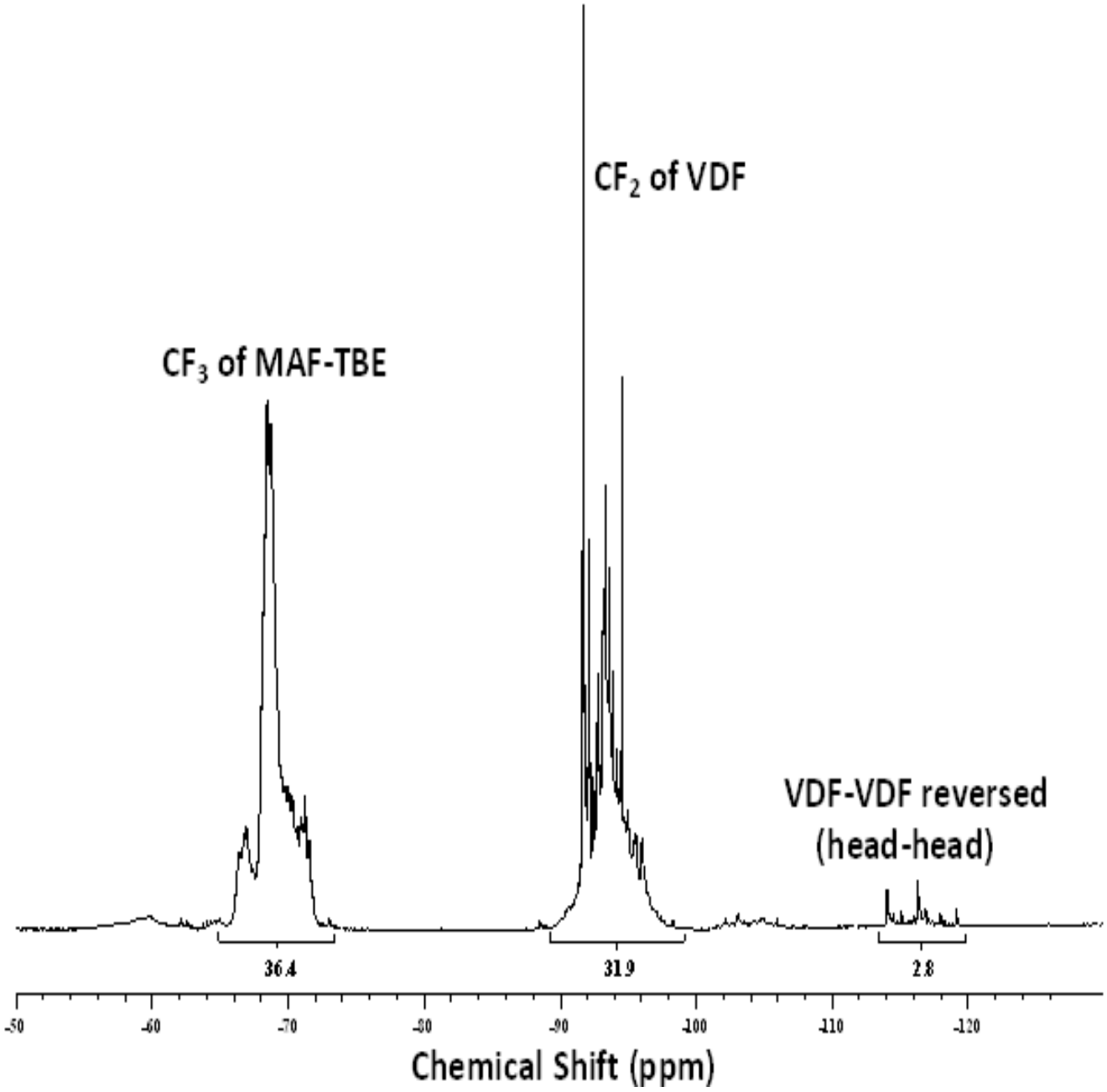

Figure S3: ^{19}F NMR spectrum (recorded in d_6 acetone) of the poly(MAF-TBE-*co*-VDF) copolymer in absence of xanthate (Run 4 in Table 1)

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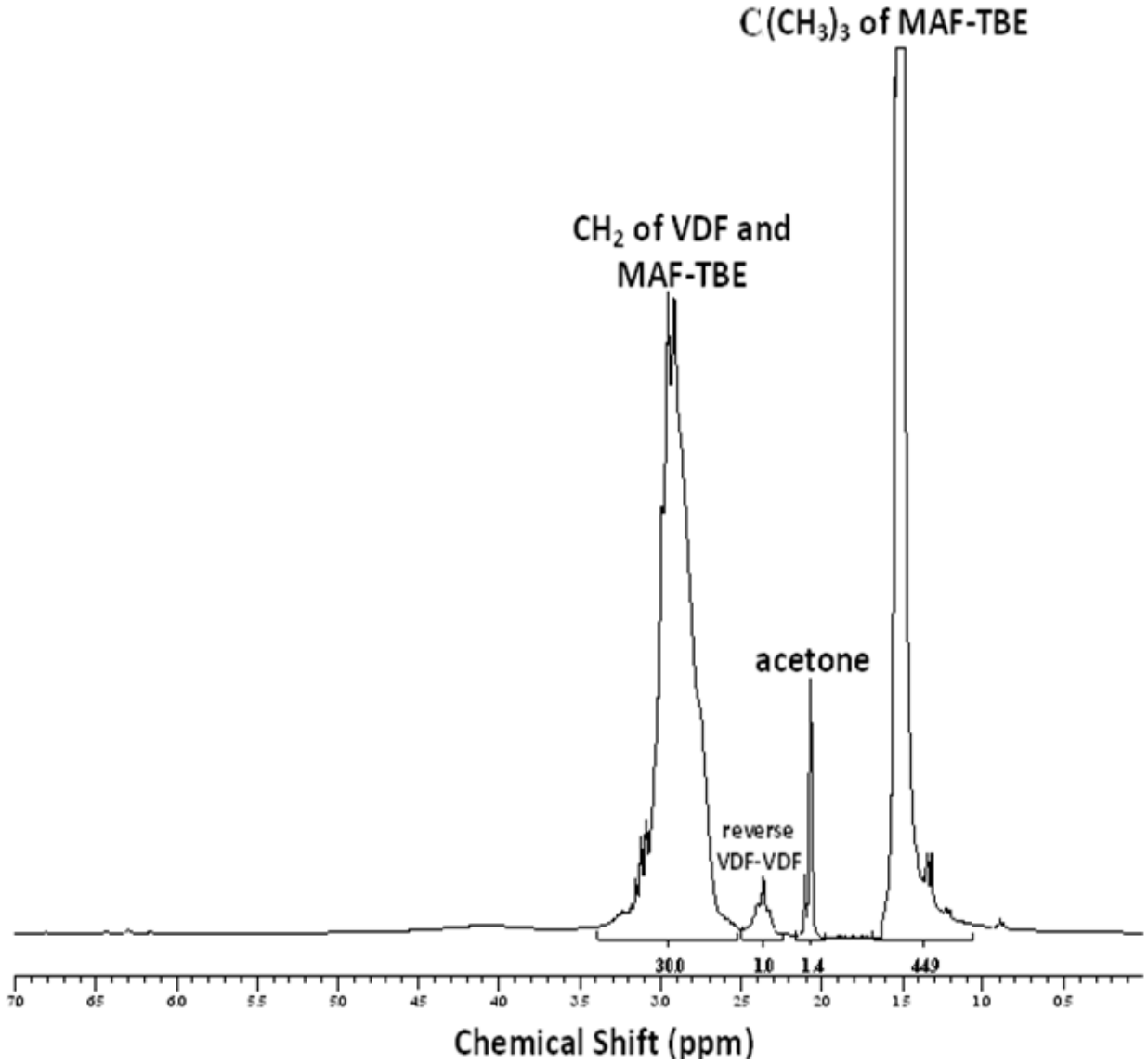

Figure S4: ^{1}H NMR spectrum (recorded in d_6 acetone) of the poly(MAF-TBE-*co*-VDF) copolymer in absence of xanthate (Run 4 in Table 1)

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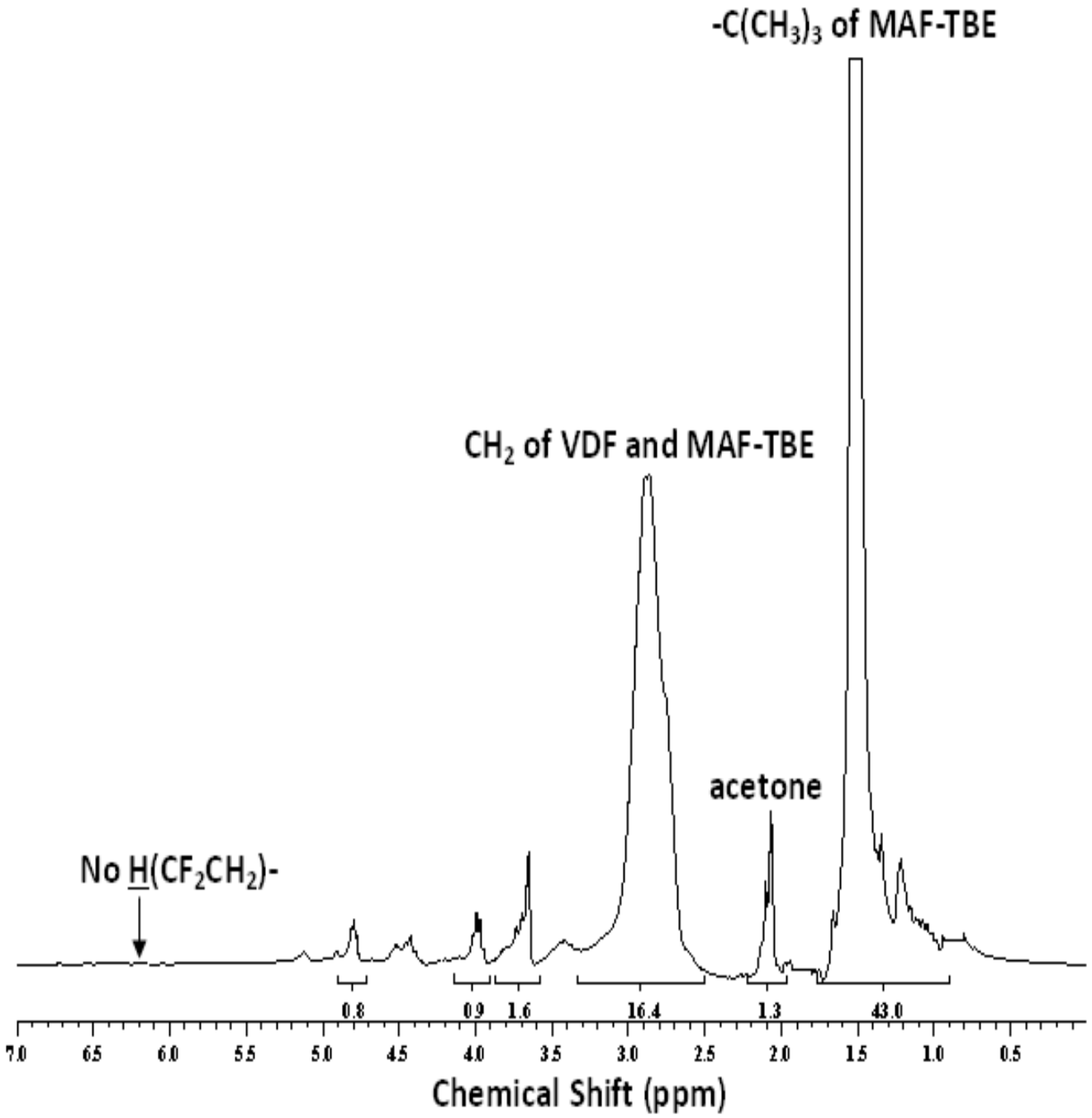

Figure S5: ^{1}H NMR spectrum (recorded in d_6 acetone) of the poly(MAF-TBE-*co*-VDF) copolymer in 2,2,2-trifluoroethanol (Run 10 in Table 1)

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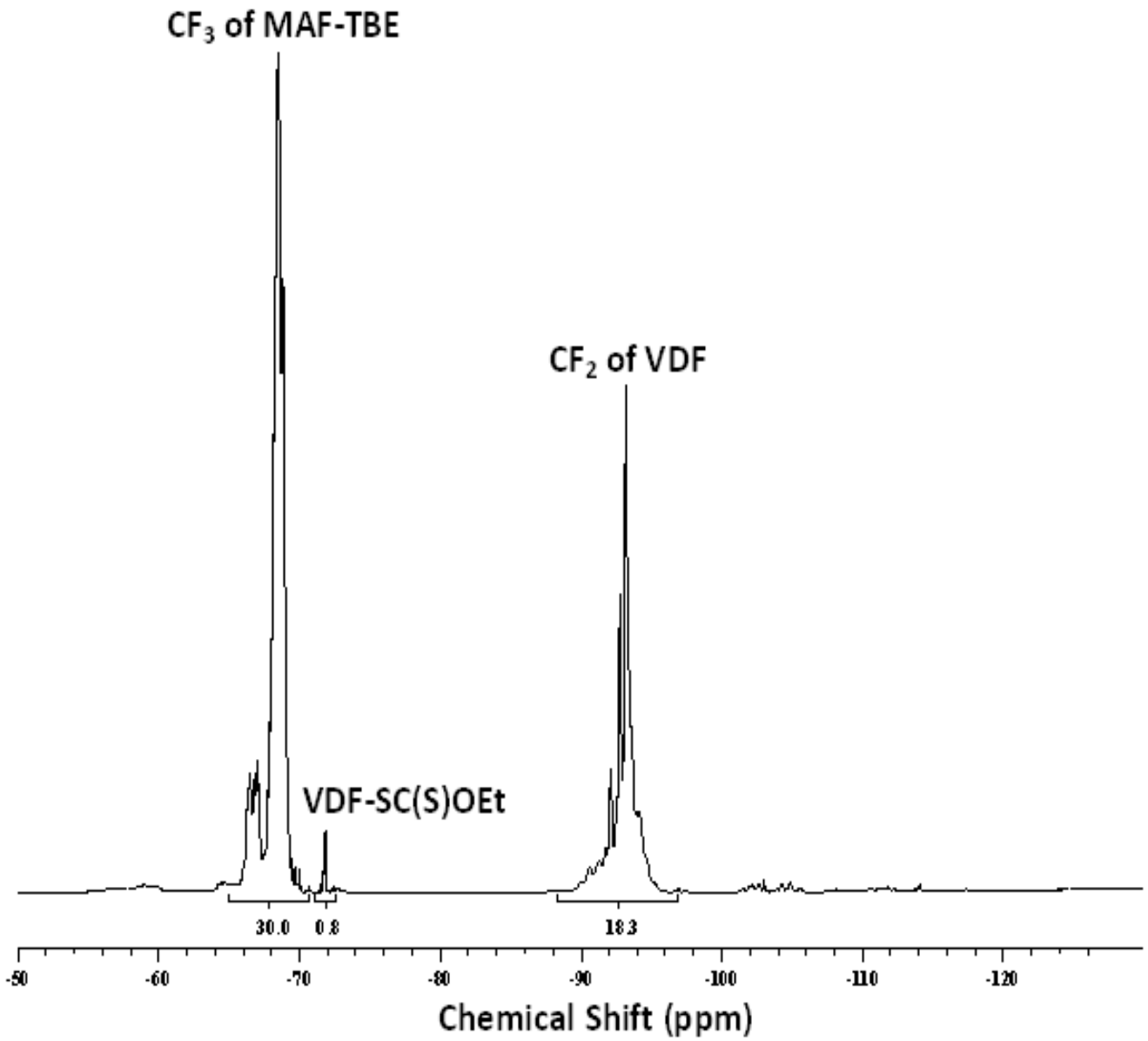

Figure S6. ^{19}F NMR spectrum (recorded in d_6 acetone) of the poly(MAF-TBE-*co*-VDF) copolymer in 2,2,2-trifluoroethanol (Run 10 in Table 1)

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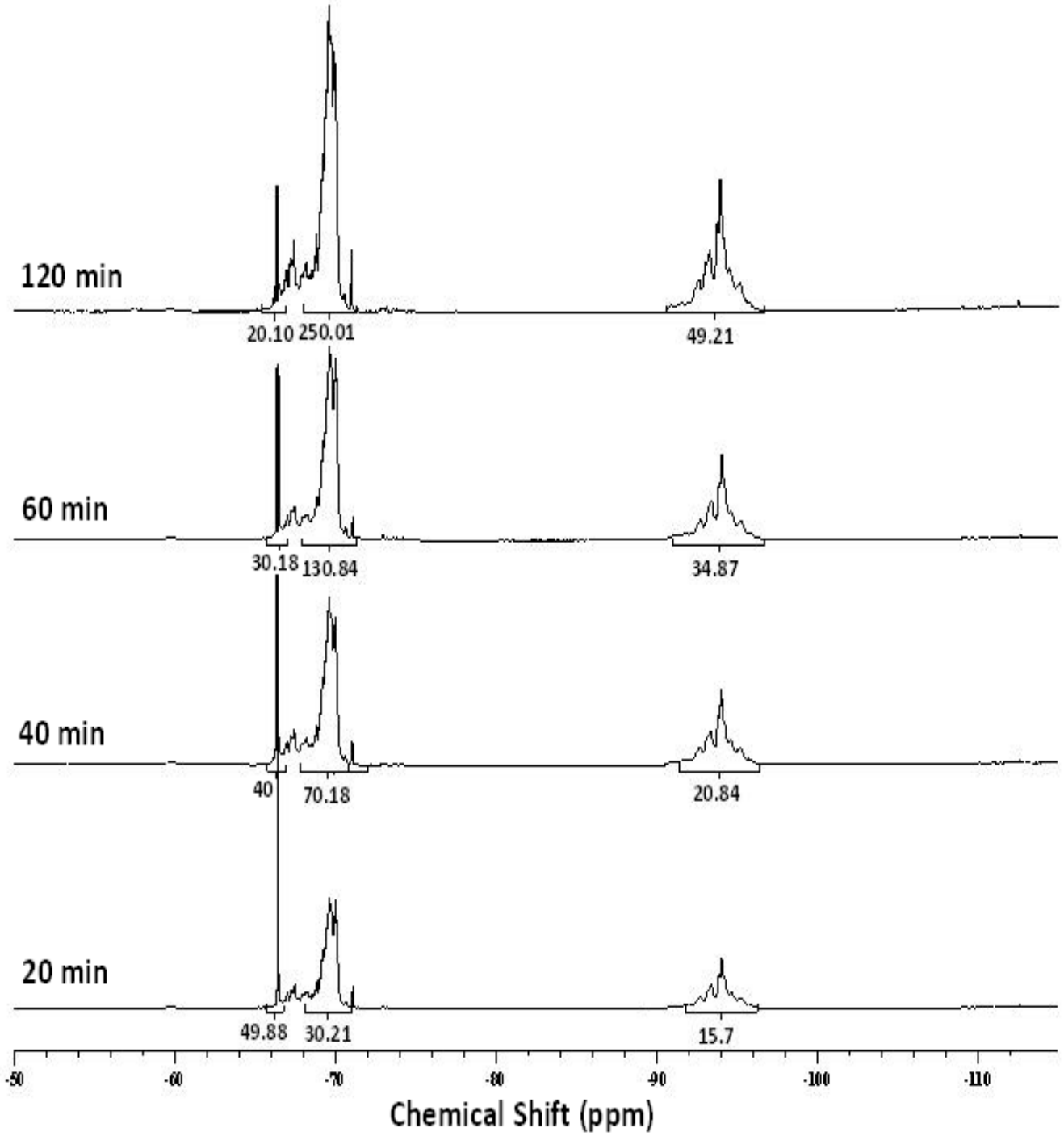

Figure S7: ^{19}F NMR spectra (recorded in d_6 acetone) of the poly(MAF-TBE-*co*-VDF) copolymer in 20, 40, 60, and 120 min to determine the conversion of MAF-TBE

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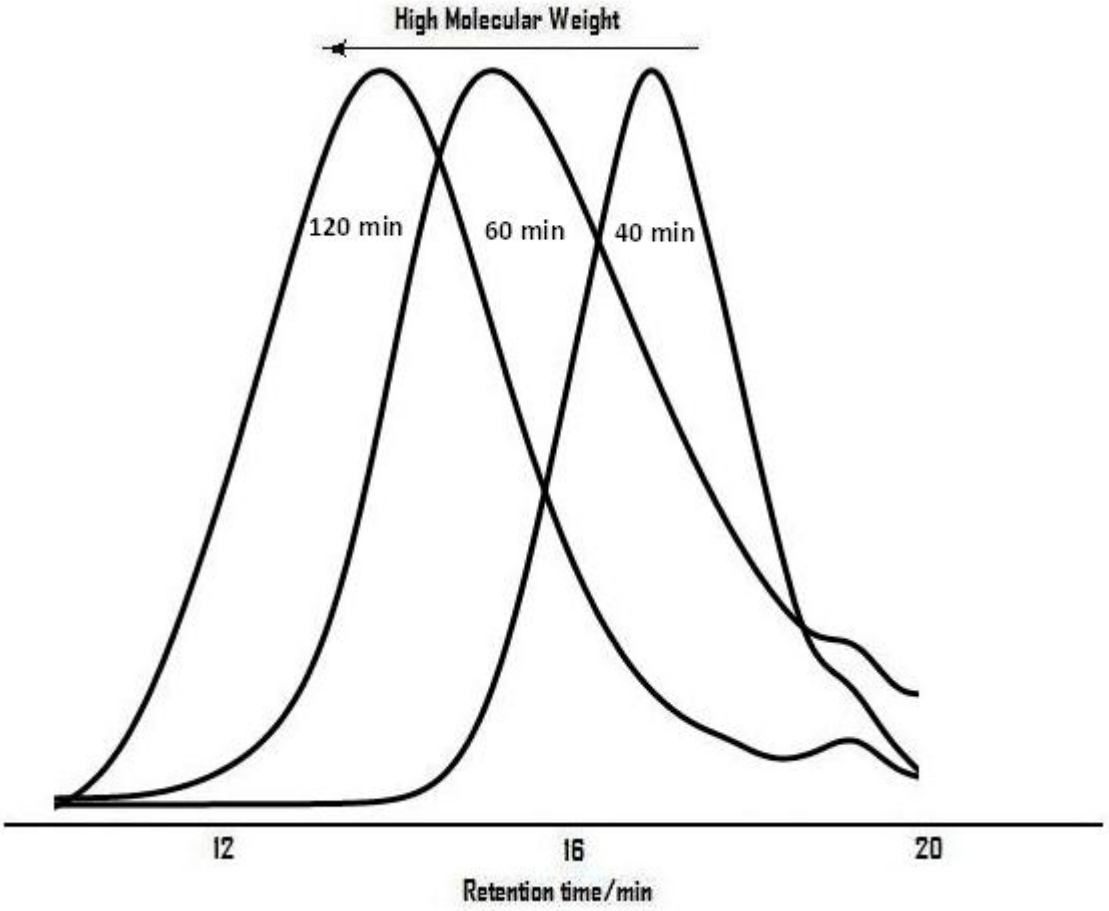

Figure S8: Size exclusion chromatograms (SEC) of poly(VDF-*co*-MAF-TBE)-xanthate copolymers at 40, 60, and 120 min, respectively. Initial concentrations = $[VDF]_o$: $[MAF\text{-}TBE]_o$: [*tert*-butyl peroxypivalate]$_o$: $[Xanthate]_o$ = 0.420 : 0.110 : 0.010 : 0.012 at 74 °C

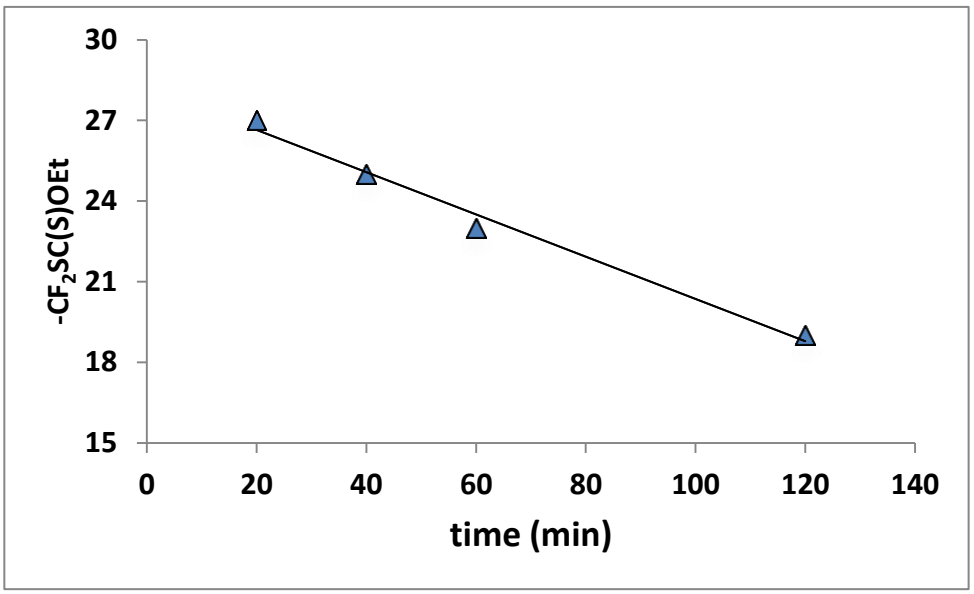

Figure S9: Evolution of $-CF_2SC(S)OEt$ versus time