

Imidazolium ionic liquids as solvents for cerium(IV)-mediated oxidation reactions

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Figure S1. ^1H -NMR spectrum of 1-methylimidazolium hydrogensulfate, [Hmim][HSO₄] in dmso-d₆ (300 MHz).

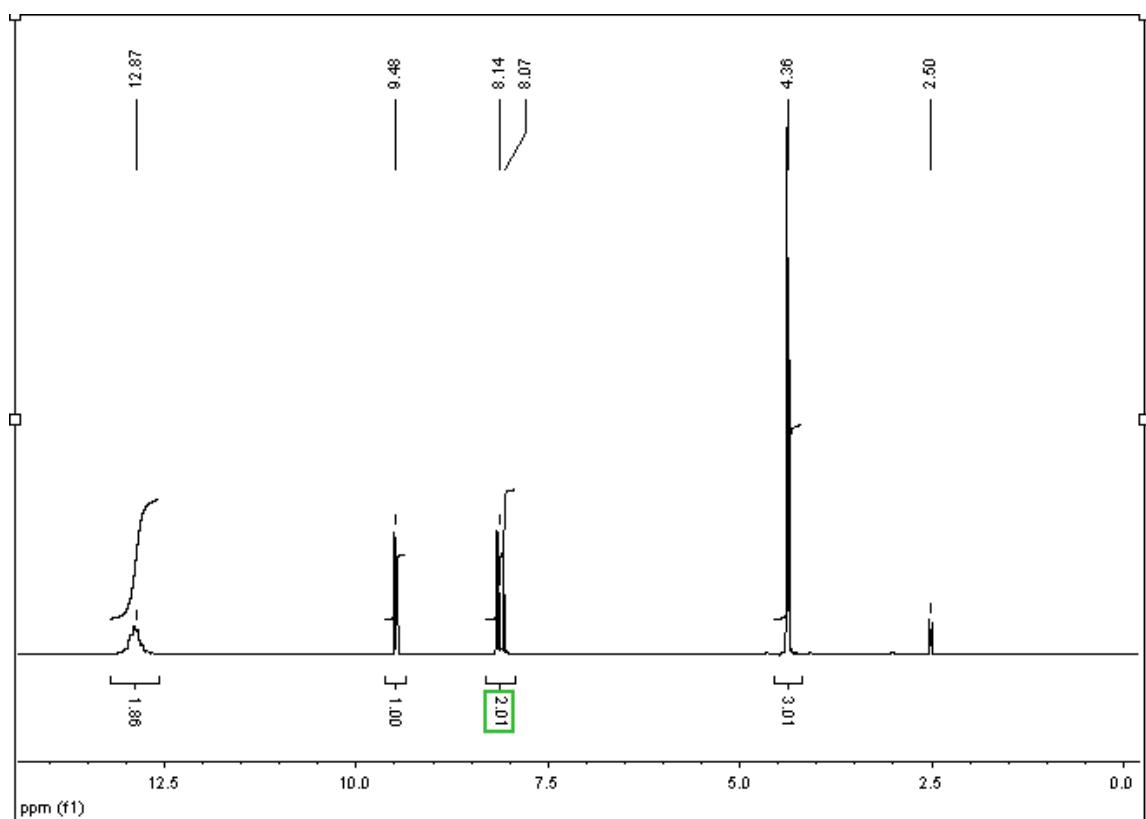


Figure S2. ^{13}C -NMR spectrum of 1-methylimidazolium hydrogensulfate, [Hmim][HSO₄] in dmso-d₆ (75.47 MHz).

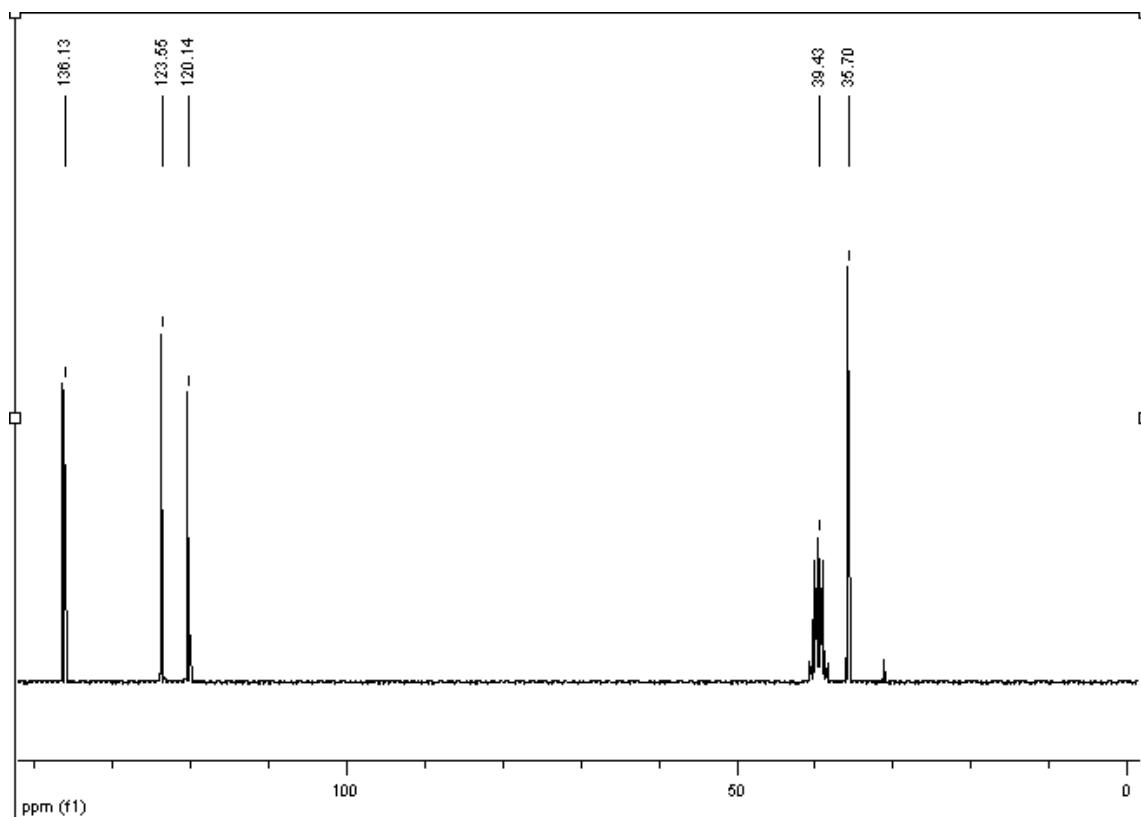


Figure S3. ^1H -NMR spectrum of 1-butylimidazolium trifluoromethanesulfonate, [Hbim][TfO] in dmso- d_6 (300 MHz).

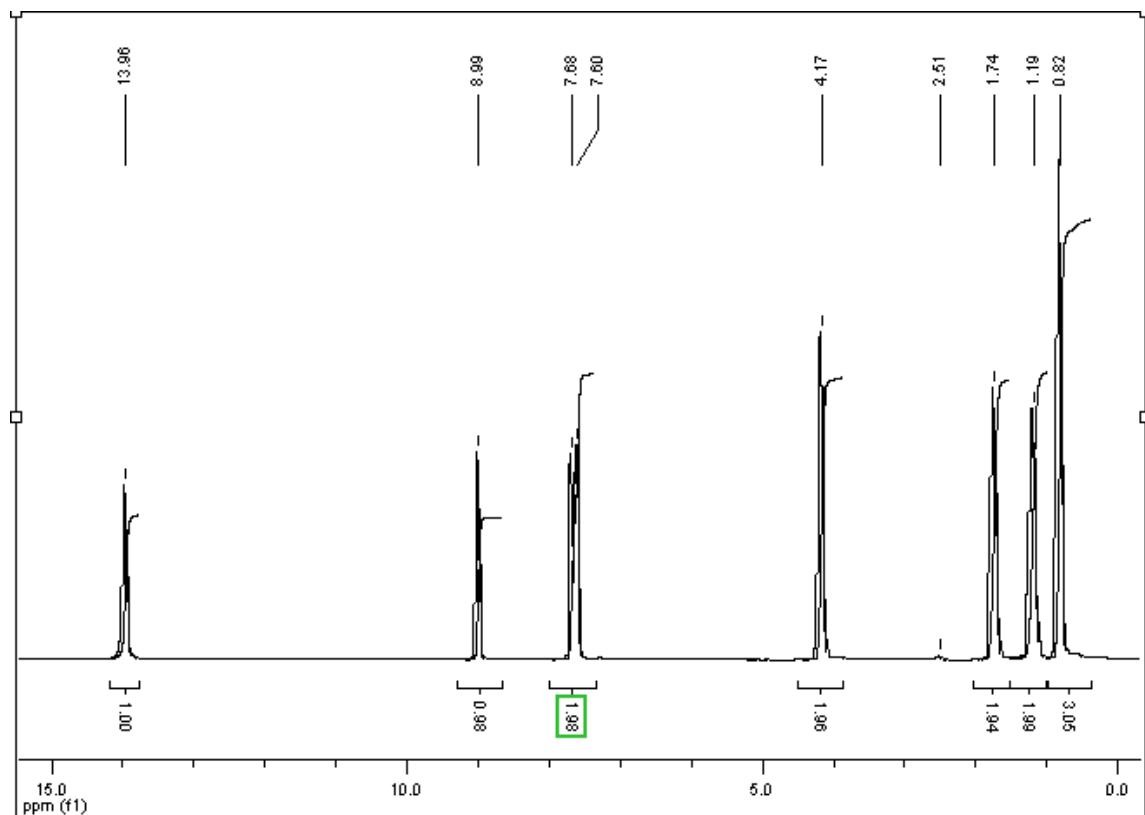


Figure S4: ^{13}C -NMR spectrum of 1-butylimidazolium trifluoromethanesulfonate, [Hbim][TfO] in dmso-d₆ (75.47 MHz).

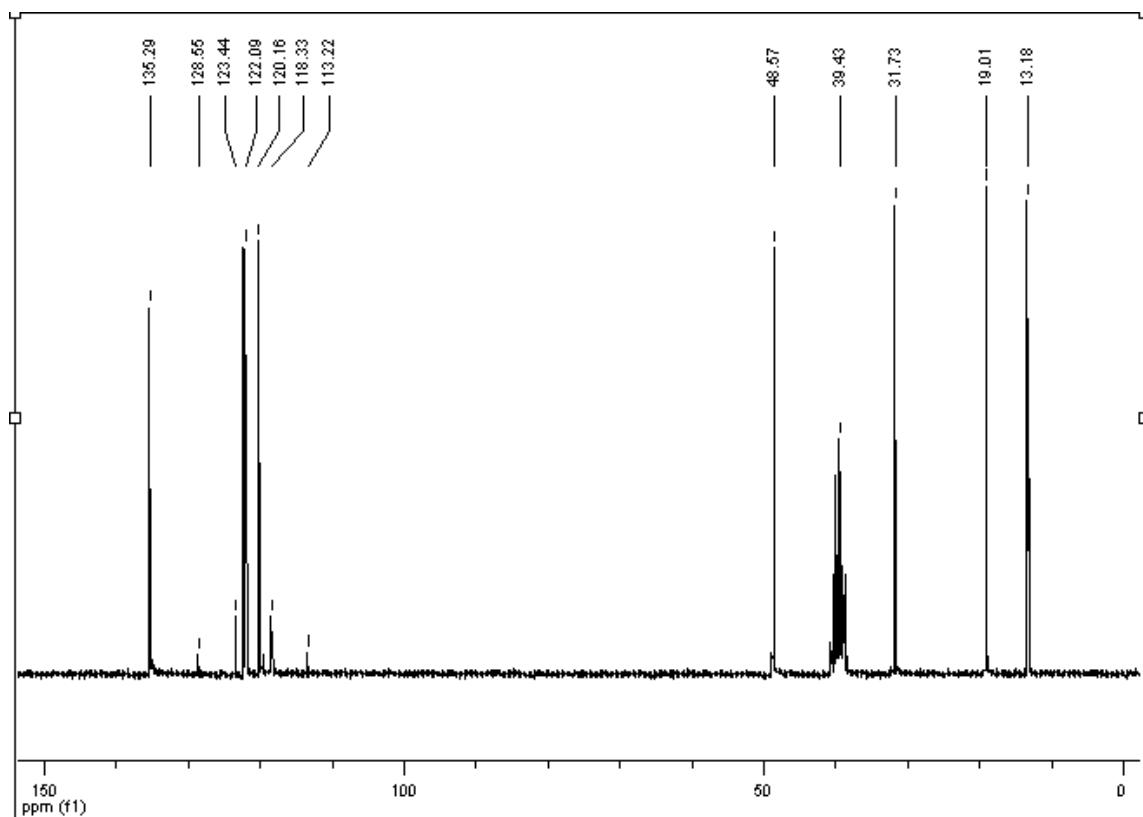


Figure S5. ^1H -NMR spectrum of 1-hexyl-3-methylimidazolium trifluoromethanesulfonate, [C₆mim][TfO] in chloroform-d₃ (300 MHz).

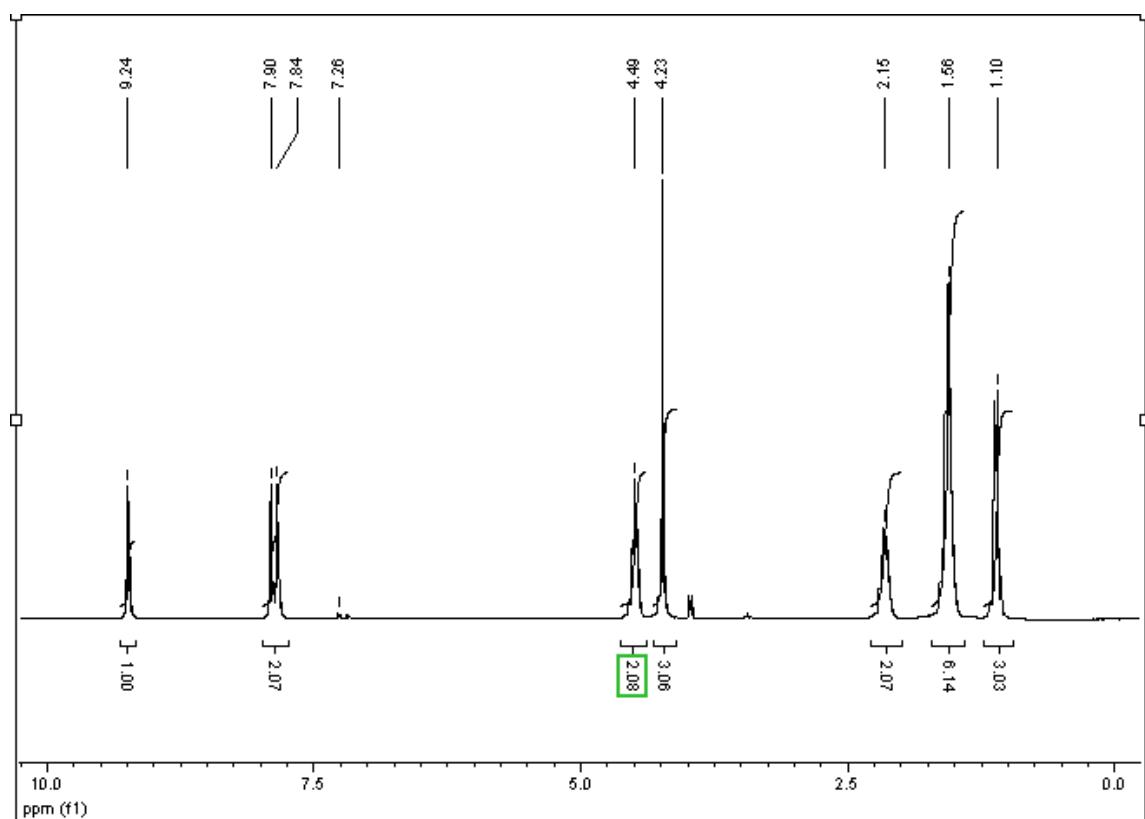


Figure S6. ^{13}C -NMR spectrum of 1-hexyl-3-methylimidazolium trifluoromethanesulfonate, [C₆mim][TfO] chloroform-d₃ (75.47 MHz).

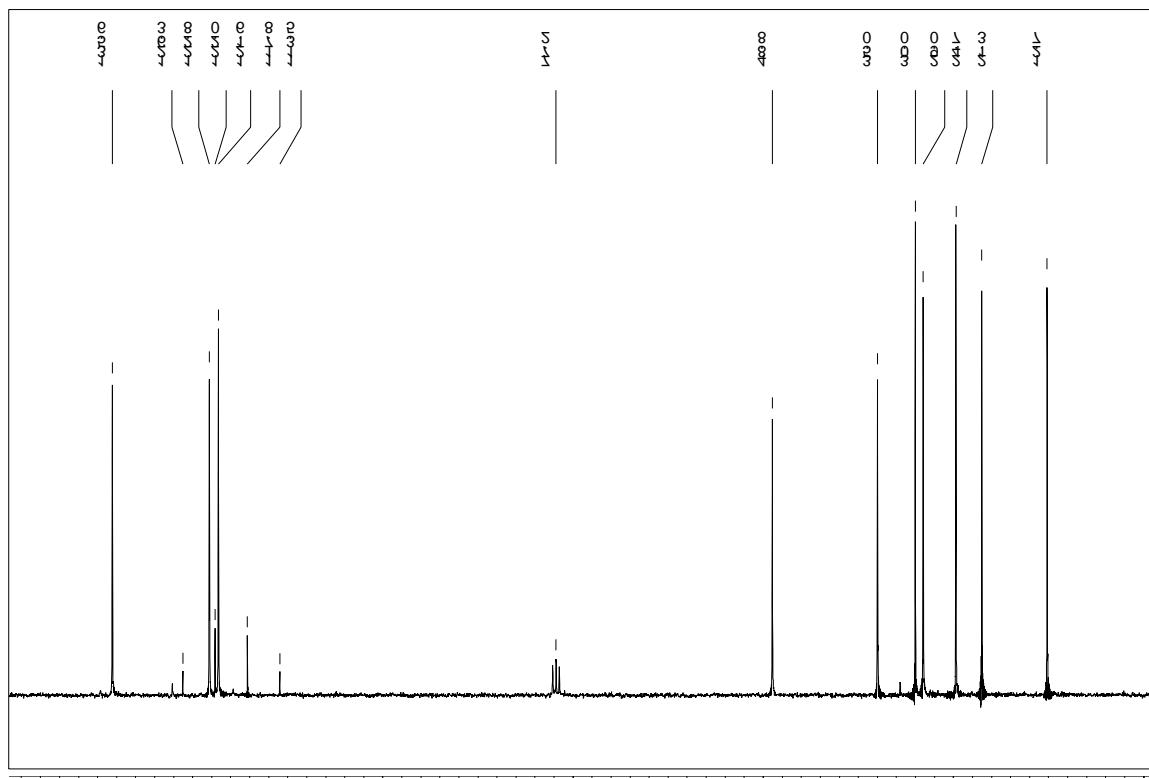


Figure S7. ^1H -NMR spectrum of 1-methylimidazolium trifluoromethanesulfonate, [emim][TfO] in acetone- d_6 (250 MHz).

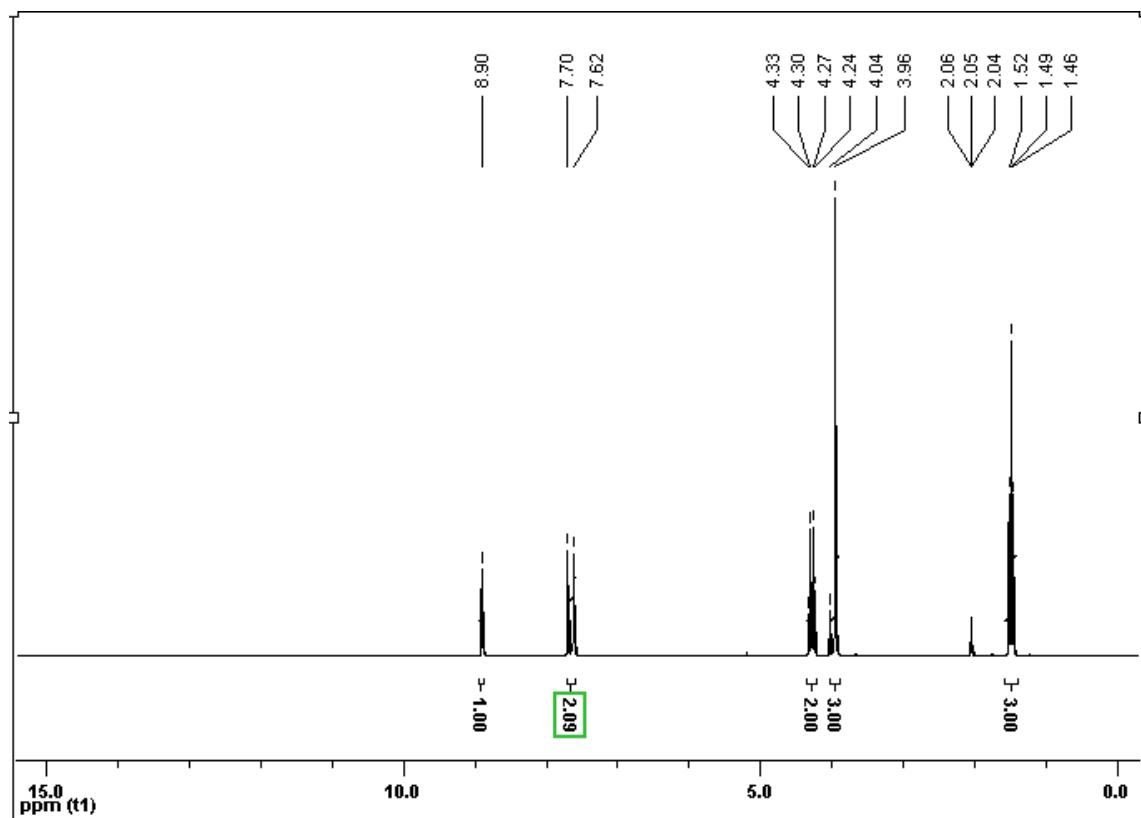


Figure S8. ^{13}C -NMR spectrum of 1-methylimidazolium trifluoromethanesulfonate, [emim][TfO] in acetone-d₆ (62.9 MHz).

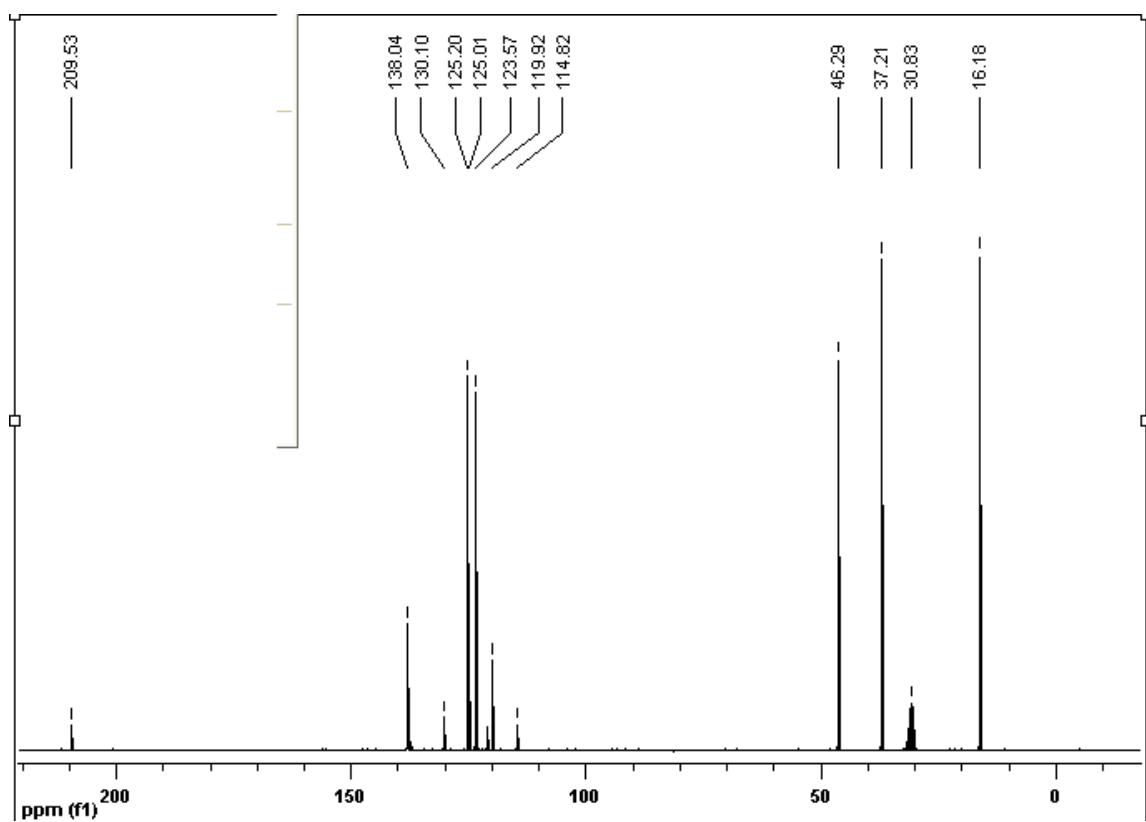


Figure S9. ^{19}F -NMR spectrum of 1-methylimidazolium trifluoromethanesulfonate, [emim][TfO] in acetone- d_6 (235.2 MHz).

