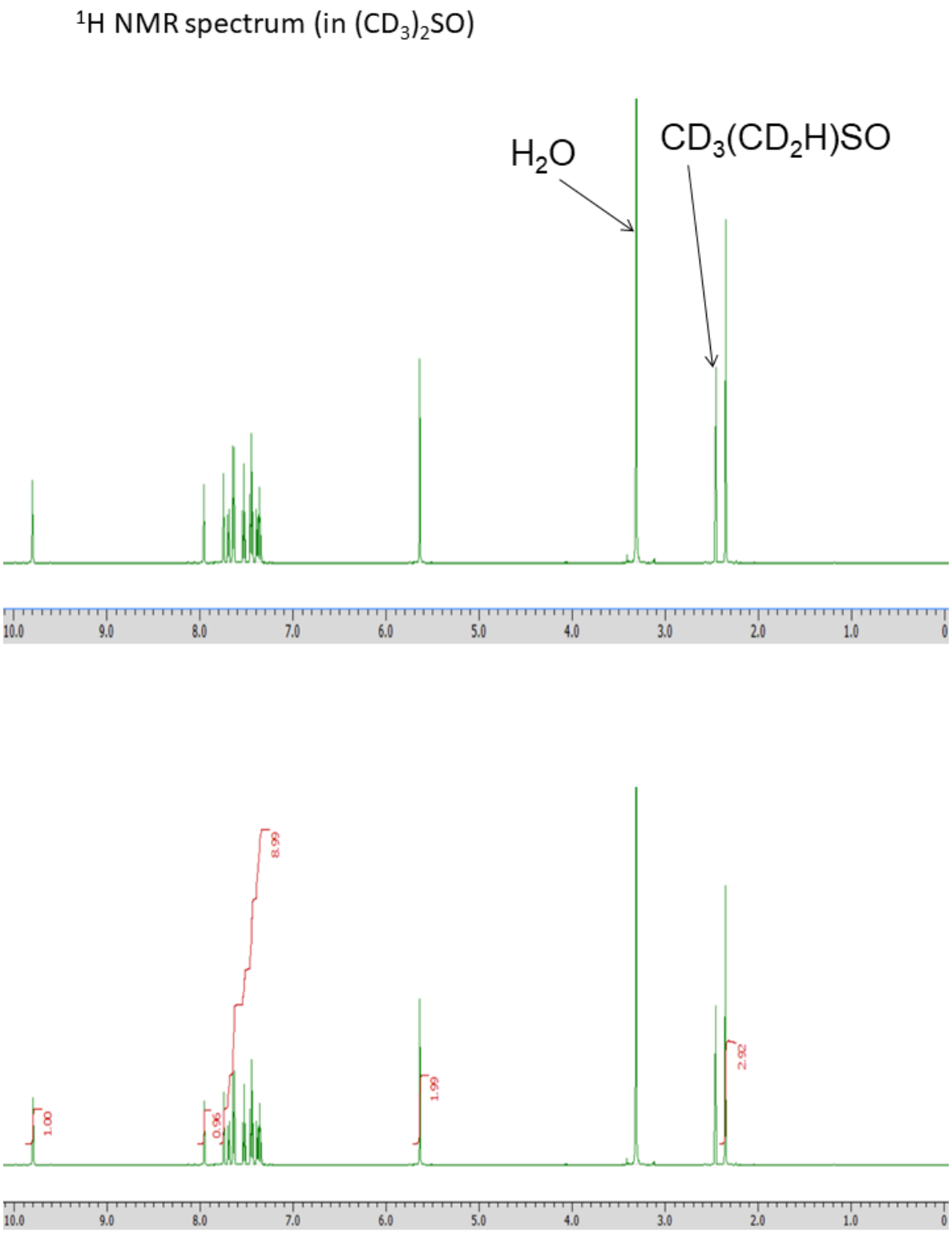

Figure S1. ^{1}H NMR spectrum of 1-(4-bromo-2,3,5,6-tetrafluorophenyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

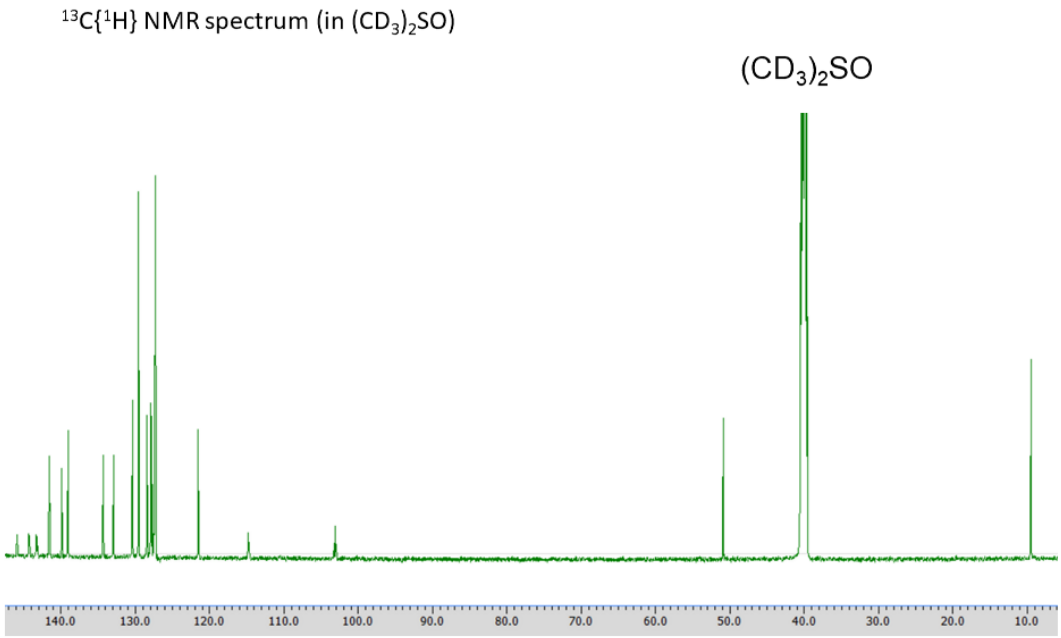

Figure S2: $^{13}C\{^{1}H\}$ NMR spectrum of 1-(4-bromo-2,3,5,6-tetrafluoropheyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

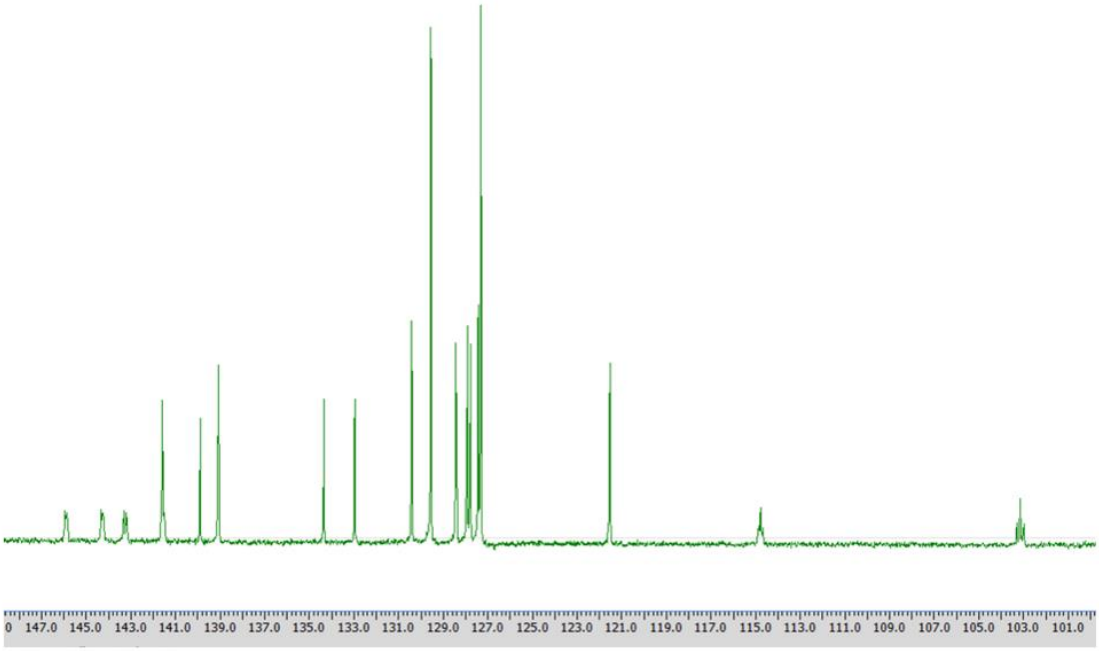

Figure S3. Partial Magnification of $^{13}C\{^{1}H\}$ NMR spectrum of 1-(4-bromo-2,3,5,6-tetrafluoropheyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

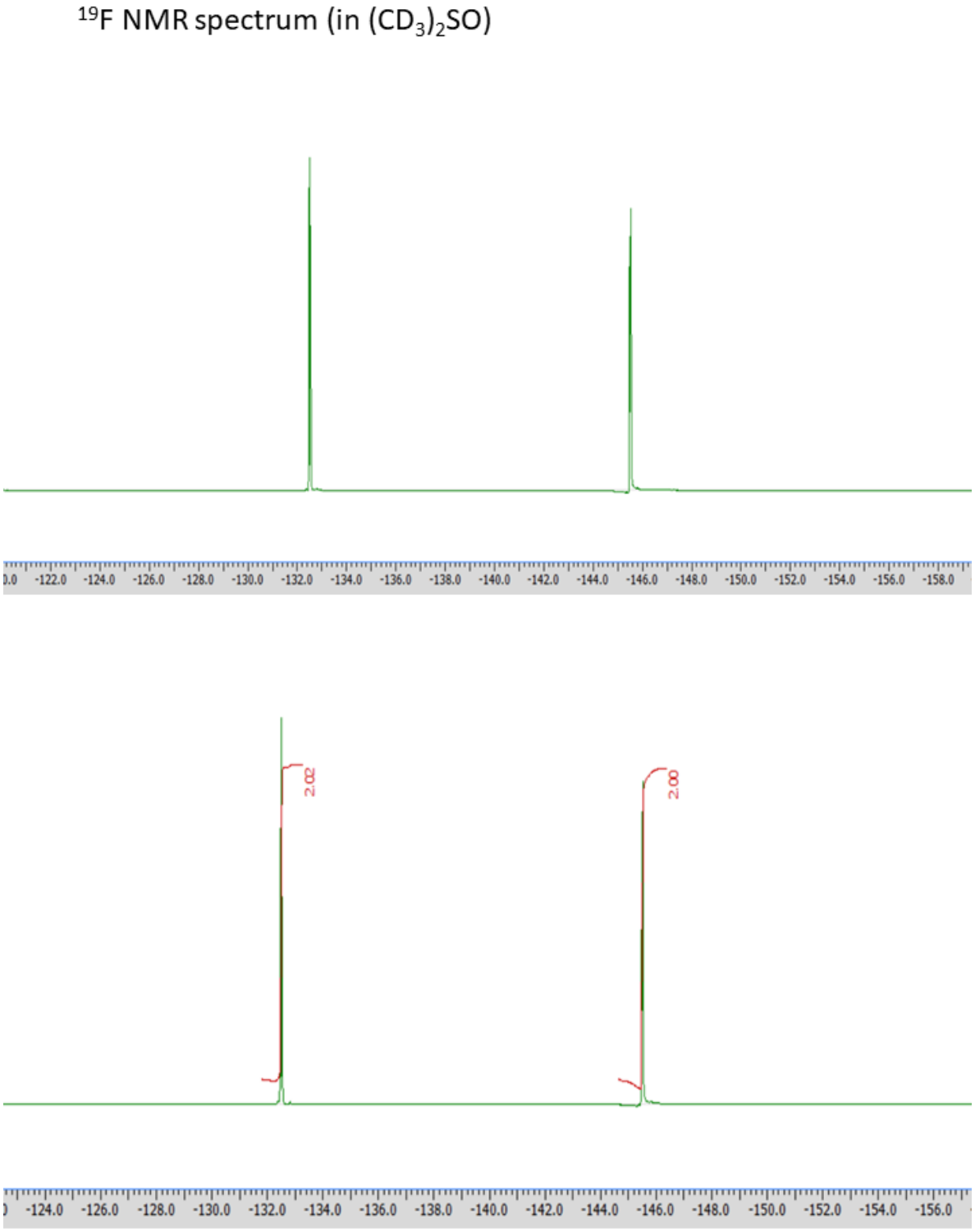

Figure S4. ^{19}F NMR spectrum of 1-(4-bromo-2,3,5,6-tetrafluoropheyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

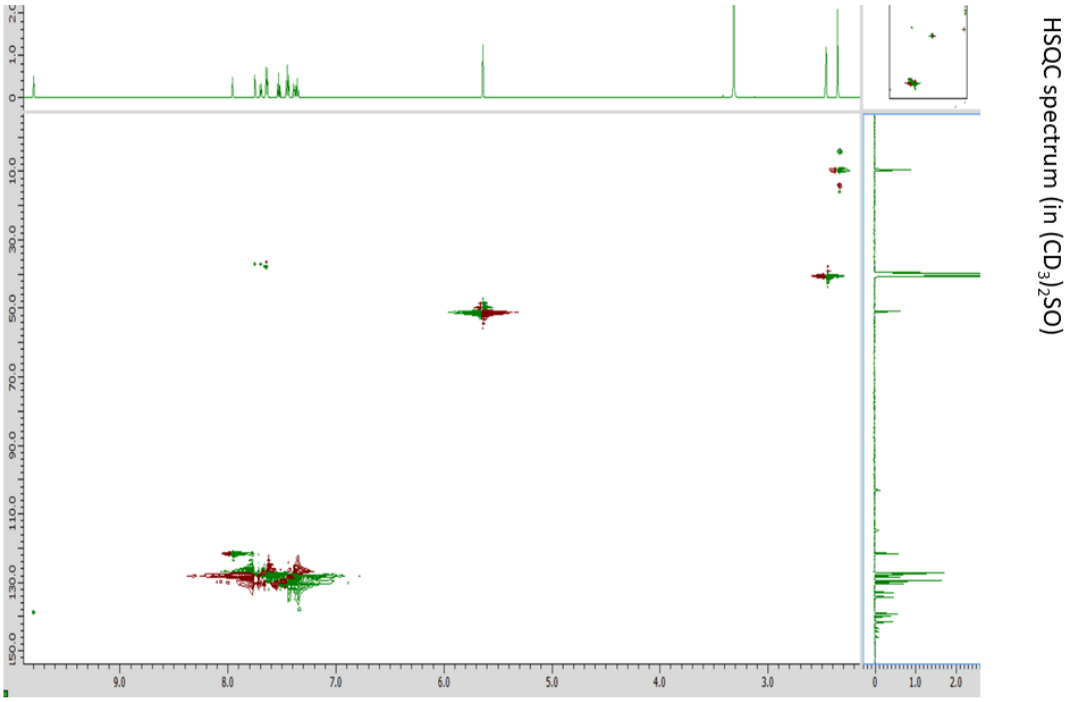

Figure S5. HSQC NMR spectrum of 1-(4-bromo-2,3,5,6-tetrafluoropheyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

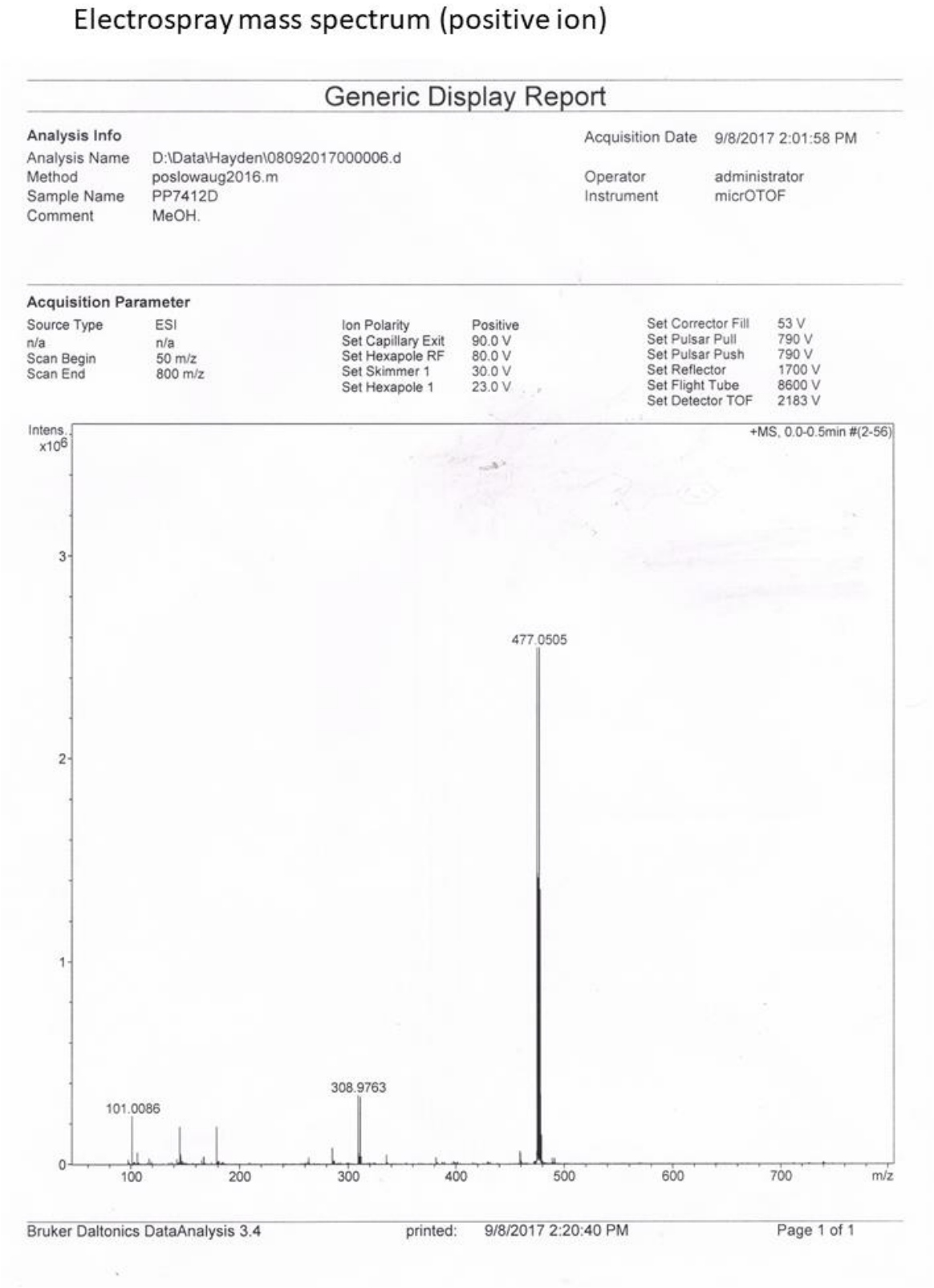

Figure S6. Positive ion electrospray mass spectrum of 1-(4-bromo-2,3,5,6-tetrafluoropheyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

Electrospray mass spectrum (positive ion)

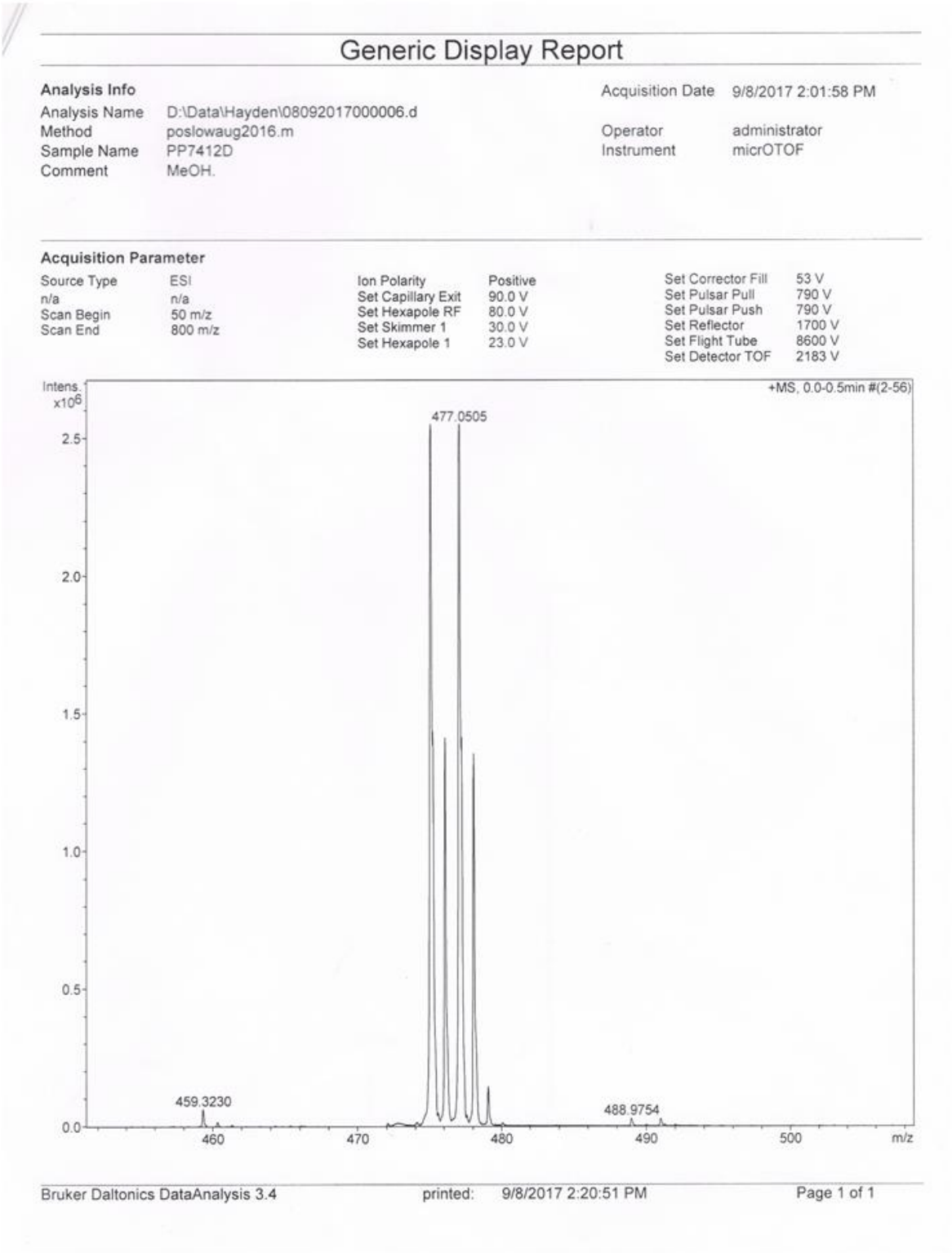

Figure S7. Partial Magnification of Positive ion electrospray mass spectrum of 1-(4-bromo-2,3,5,6-tetrafluoropheyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).