

^1H NMR spectrum (in $(\text{CD}_3)_2\text{SO}$)

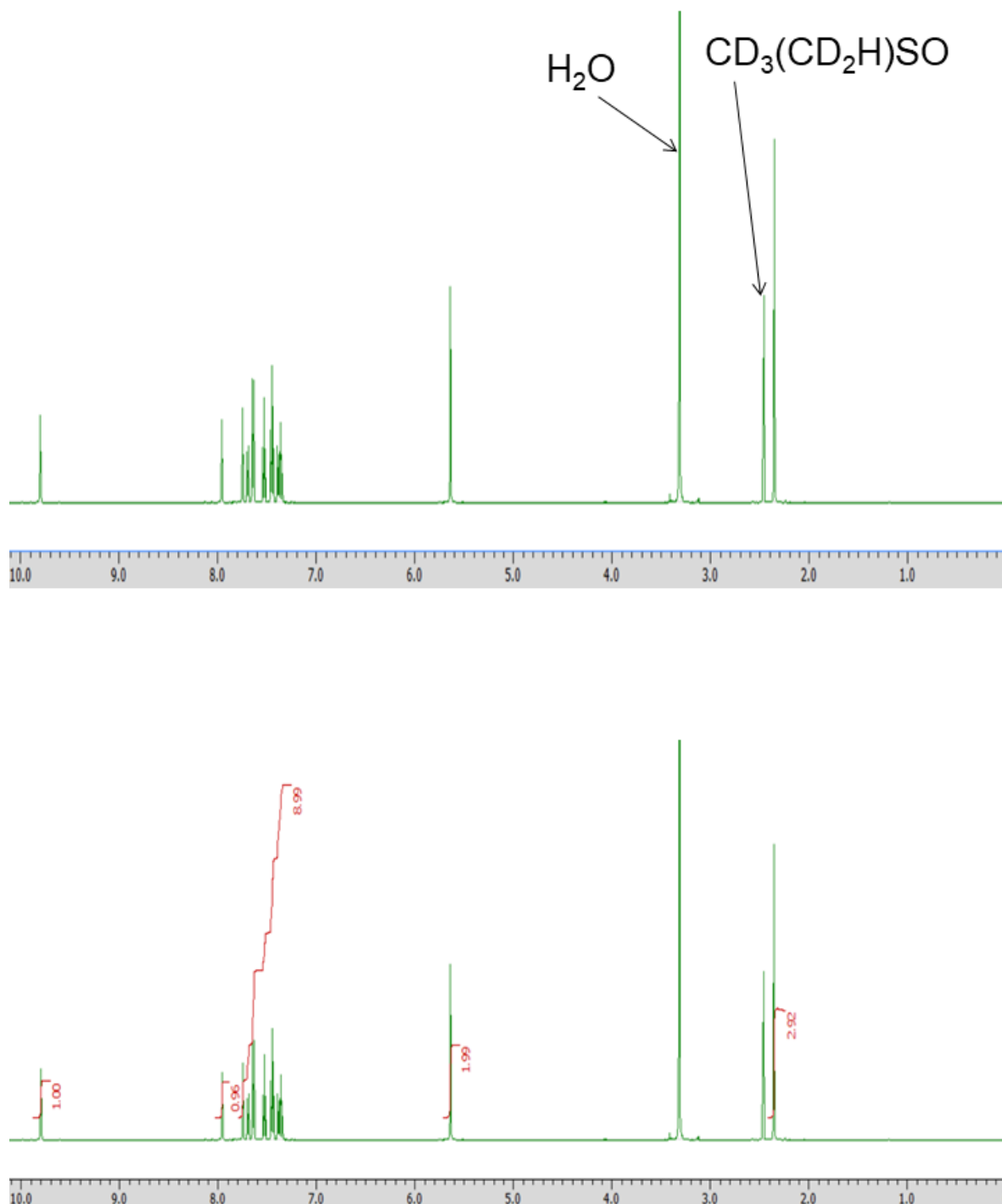


Figure S1. ^1H NMR spectrum of 1-(4-bromo-2,3,5,6-tetrafluorophenyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

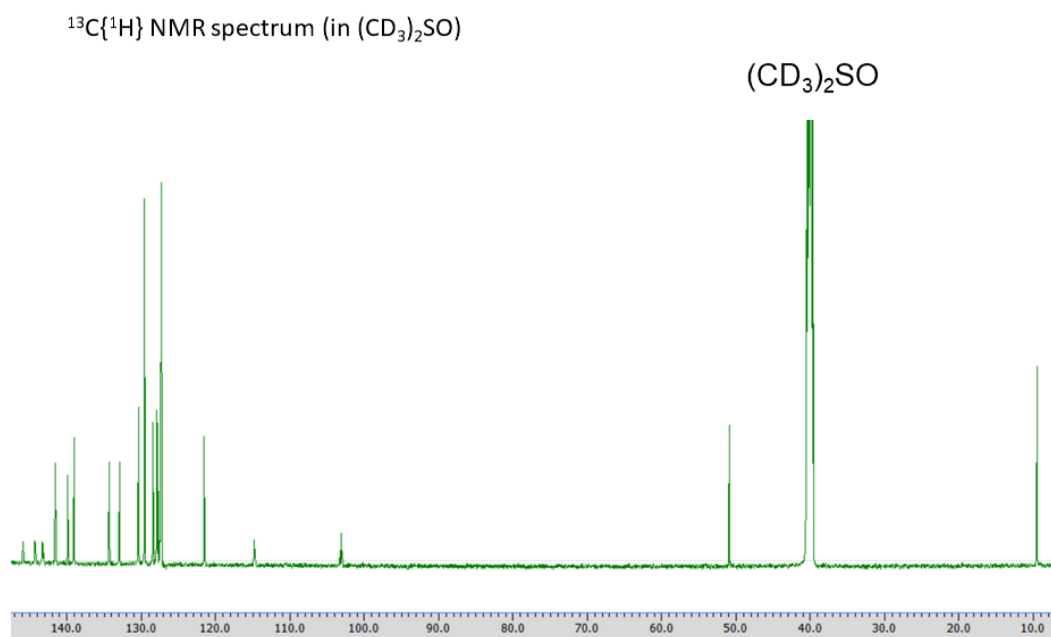


Figure S2: $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of 1-(4-bromo-2,3,5,6-tetrafluorophenyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

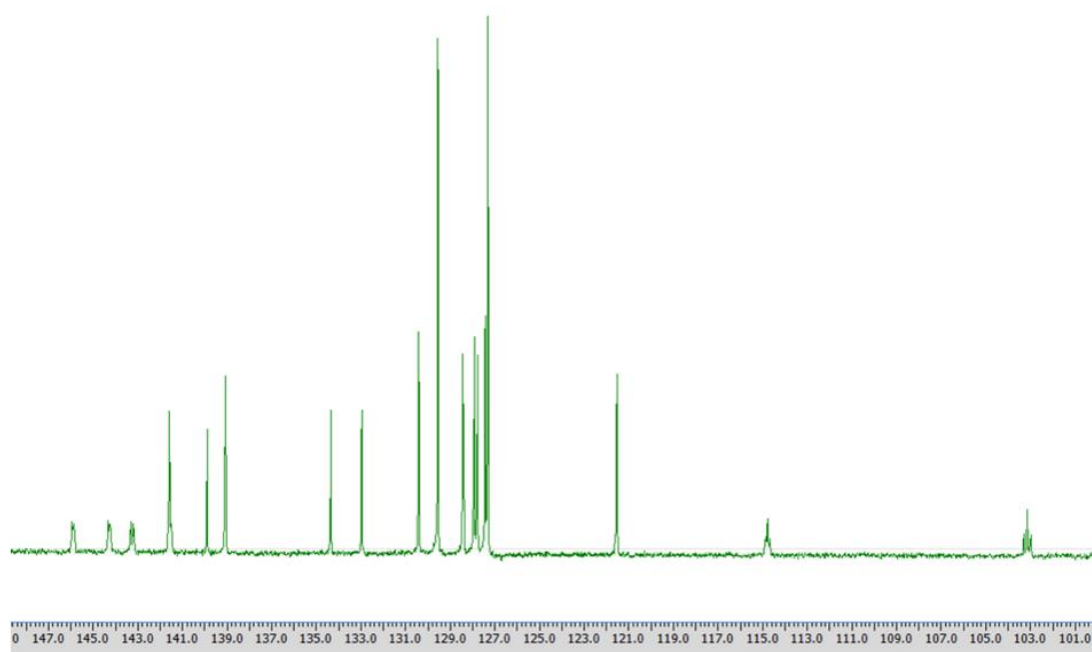


Figure S3. Partial Magnification of $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum of 1-(4-bromo-2,3,5,6-tetrafluorophenyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

^{19}F NMR spectrum (in $(\text{CD}_3)_2\text{SO}$)

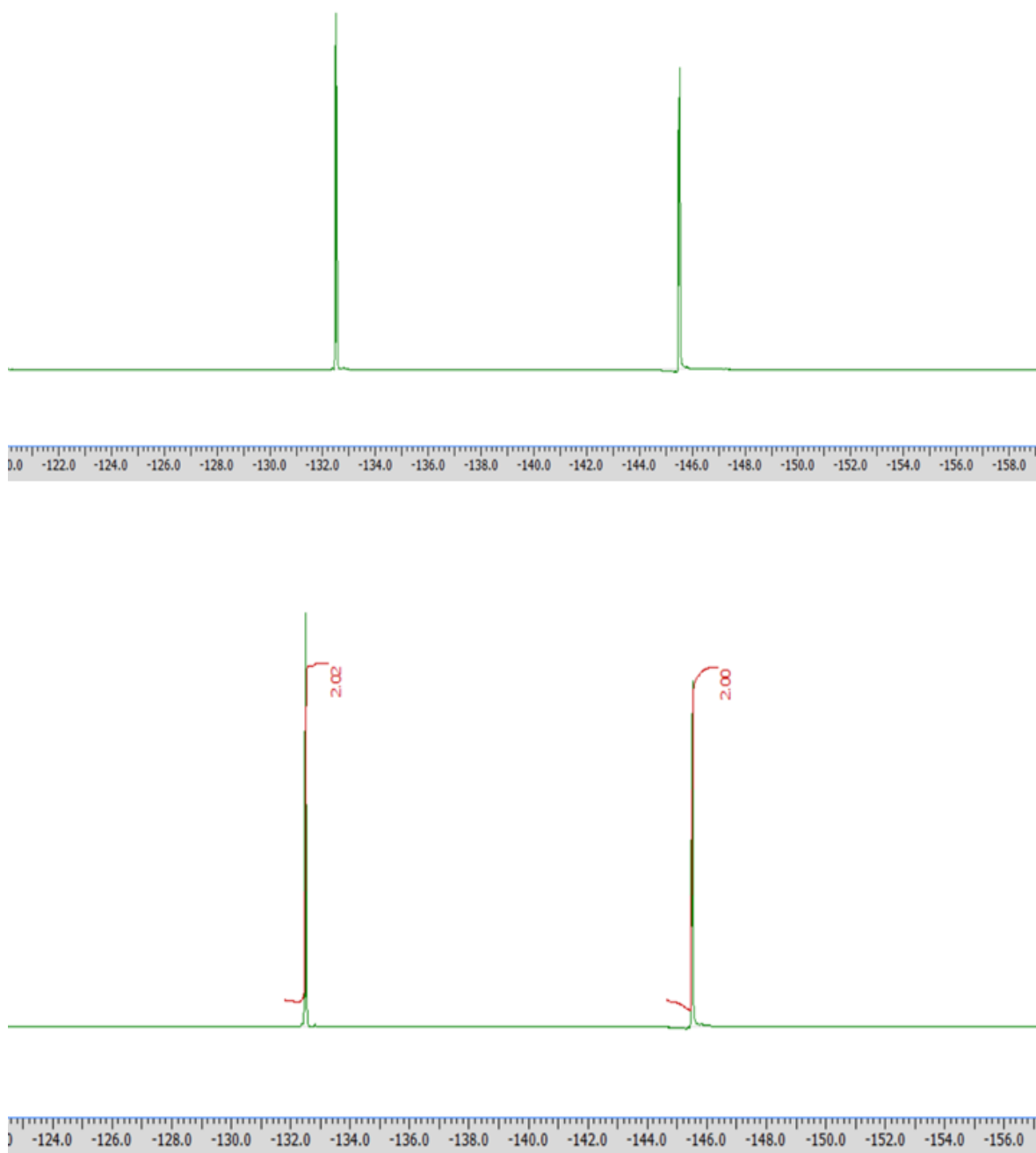


Figure S4. ^{19}F NMR spectrum of 1-(4-bromo-2,3,5,6-tetrafluorophenyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

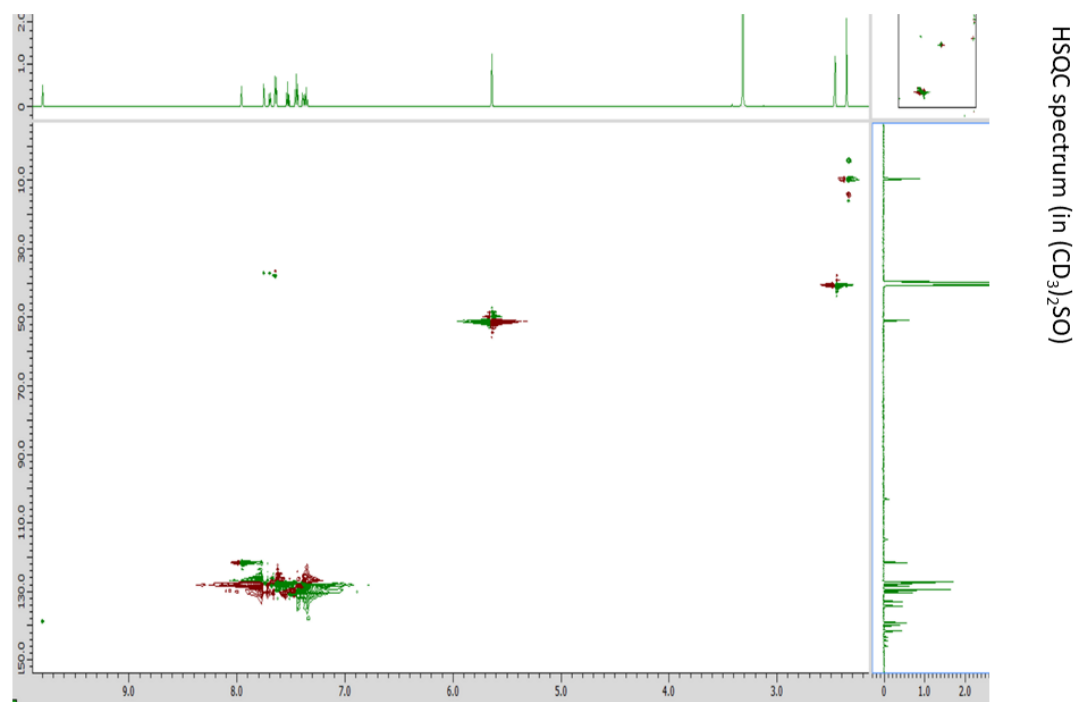


Figure S5. HSQC NMR spectrum of 1-(4-bromo-2,3,5,6-tetrafluorophenyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).

Electrospray mass spectrum (positive ion)

Generic Display Report

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Comment MeOH.

Acquisition Date 9/8/2017 2:01:58 PM

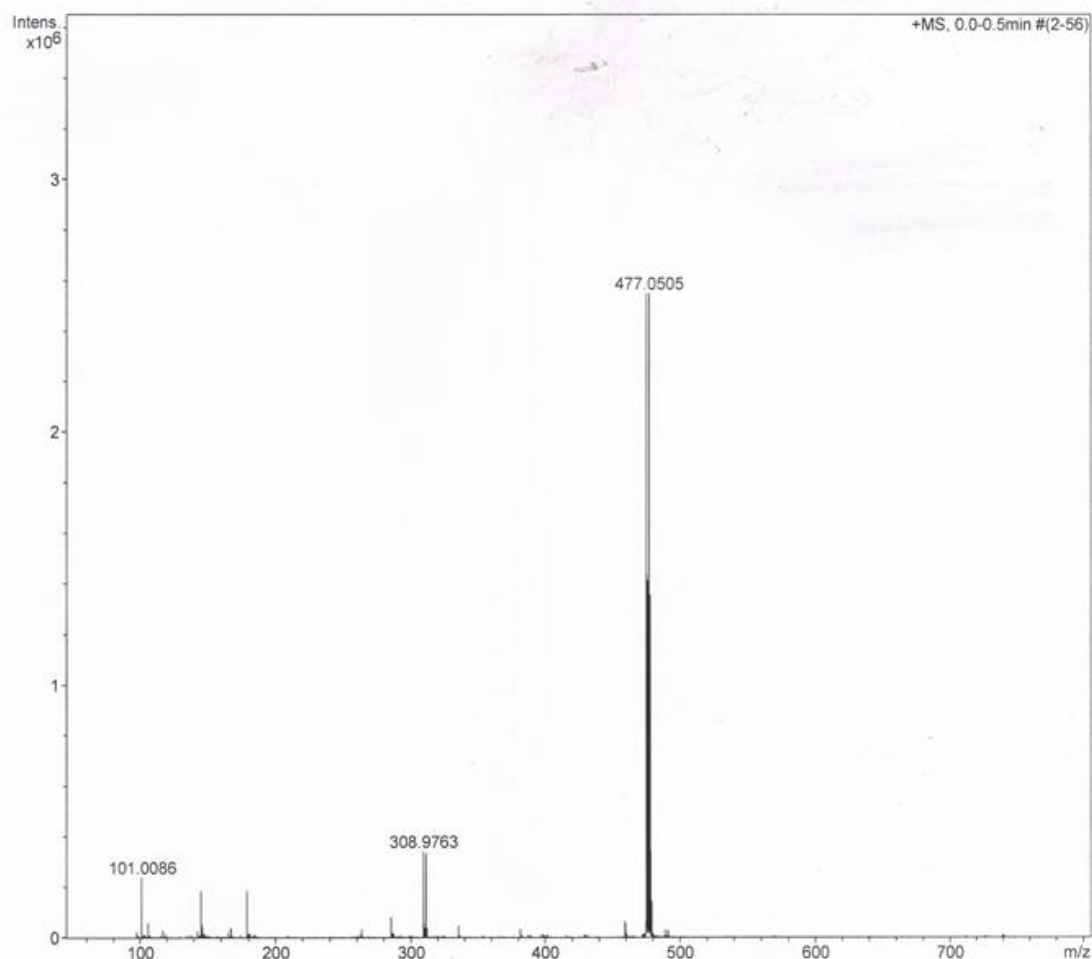
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Set Corrector Fill 53 V
Set Pulsar Pull 790 V
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Set Reflector 1700 V
Set Flight Tube 8600 V
Set Detector TOF 2183 V



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

Electrospray mass spectrum (positive ion)

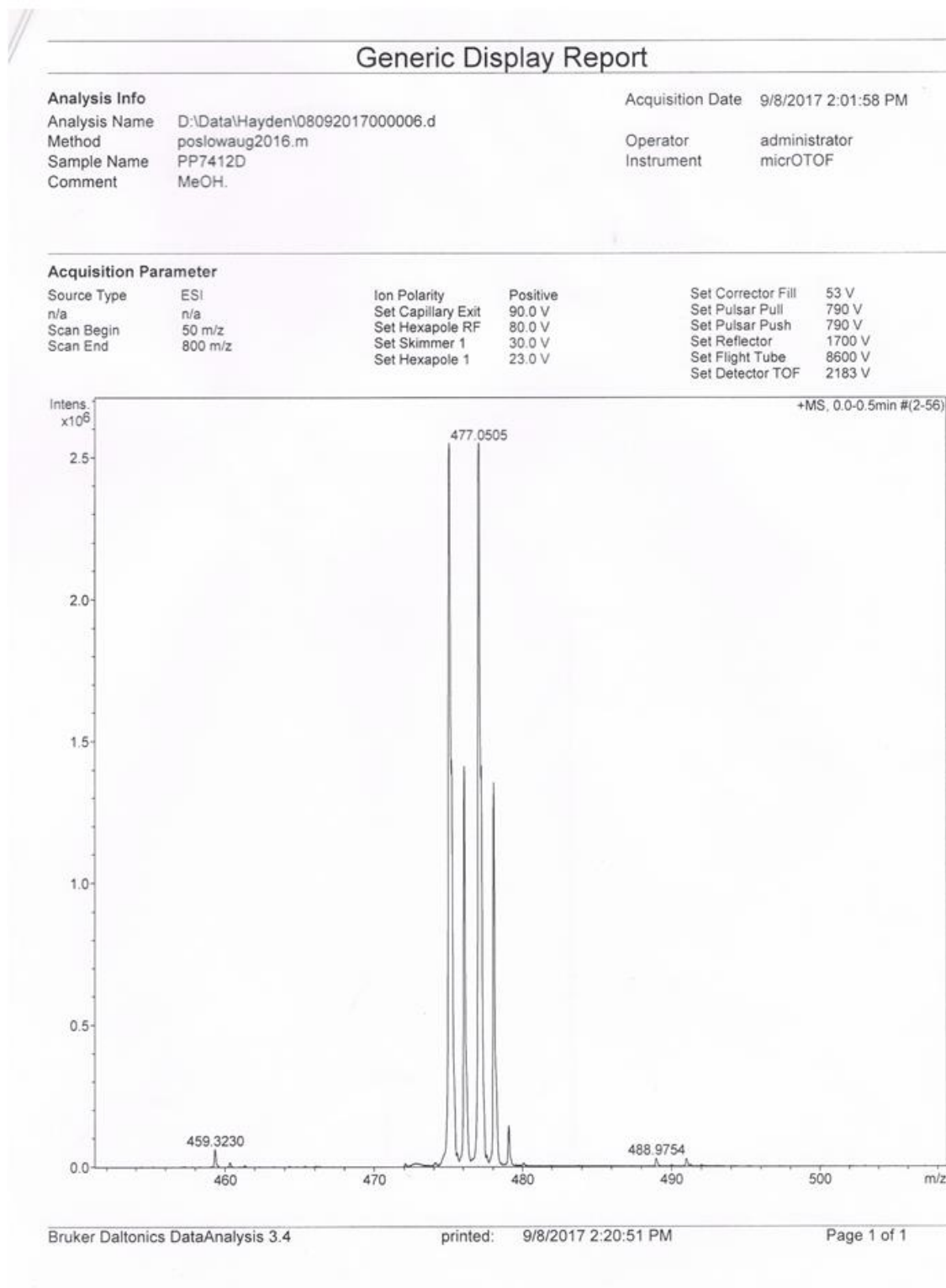


Figure S7. Partial Magnification of Positive ion electrospray mass spectrum of 1-(4-bromo-2,3,5,6-tetrafluorophenyl)-3-(3-phenylbenzyl)-4-methylimidazolium bromide (**3**).