

Supporting Information

Palladium complexes of N-heterocyclic carbenes displaying an unsymmetrical *N*-alkylfluorenyl/*N'*-aryl substitution pattern and their behaviour in Suzuki-Miyaura cross coupling

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^b*Inorganic and Organometallic Coordination Chemistry Laboratory, Faculty of Sciences, Lebanese University, R. Hariri University Campus, Beyrouth, Hadath, Lebanon*

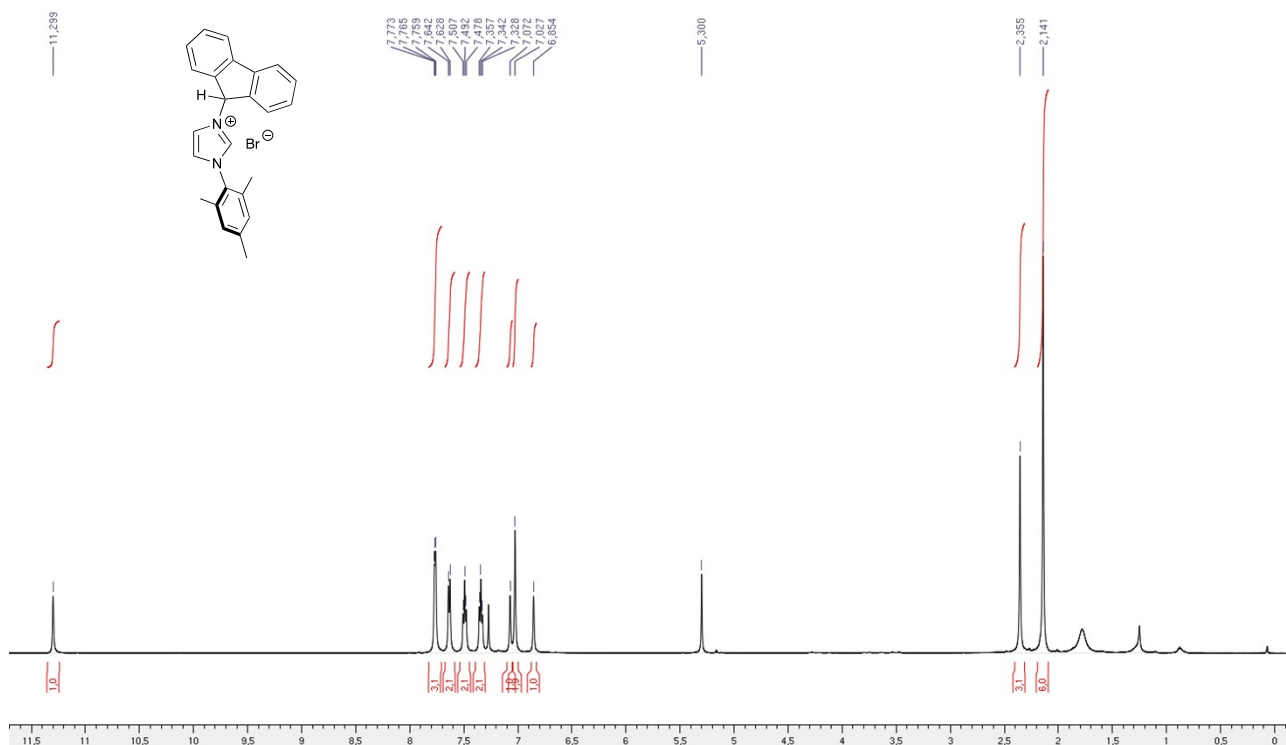
^c*Institut de Science et Ingénierie Supramoléculaires (ISIS), UMR 7606 CNRS, Université de Strasbourg, 8 rue Gaspard Monge, 67083 Strasbourg cedex, France*

Contents:

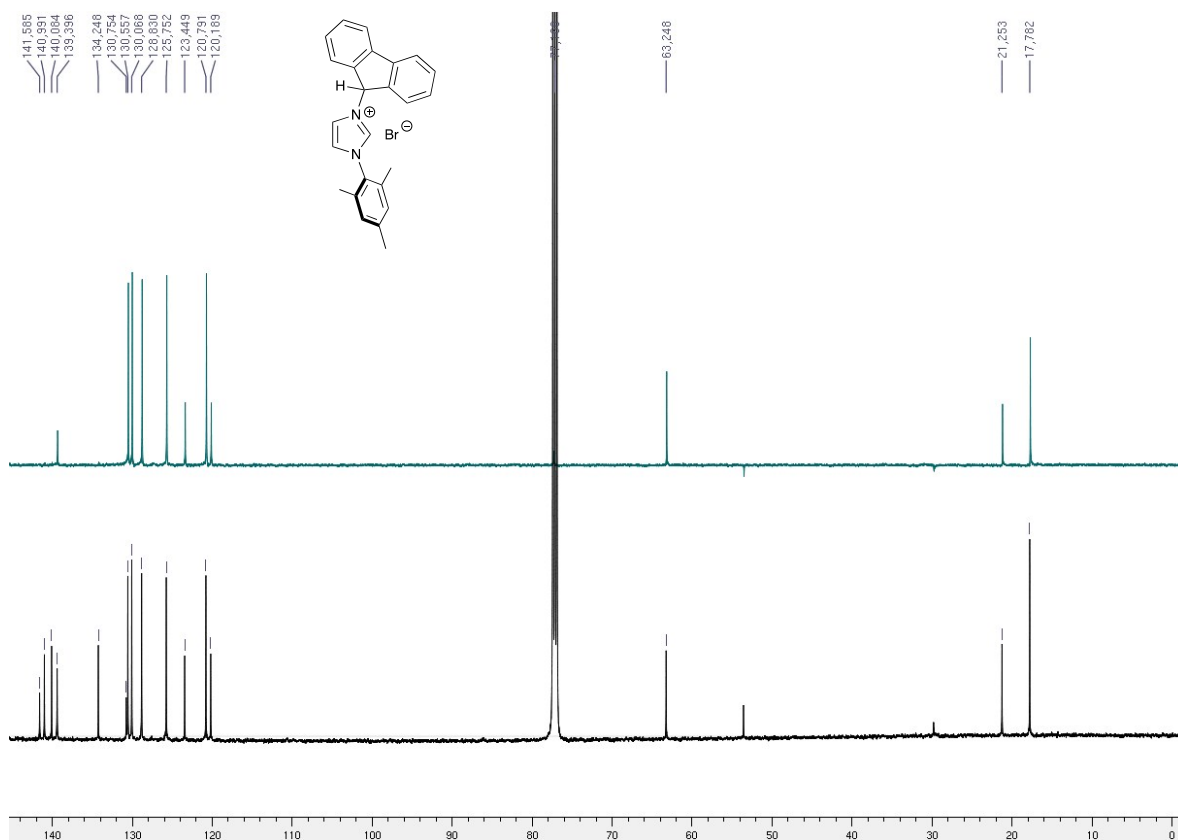
1) ¹H, ¹³C{¹H} and ¹⁹F NMR spectra ————— S1-S30

1) ^1H , $^{13}\text{C}\{^1\text{H}\}$ and ^{19}F NMR spectra

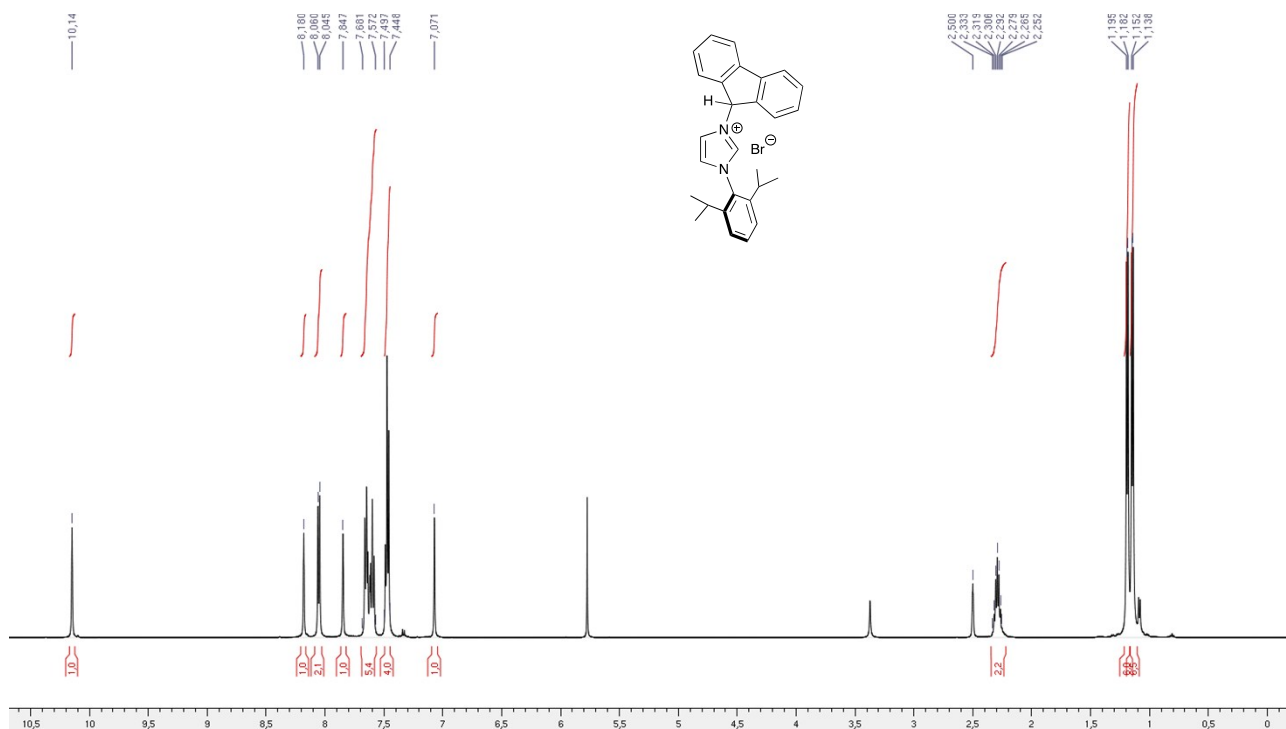
^1H NMR (CDCl_3 , 300 MHz) of imidazolium 3^{H}



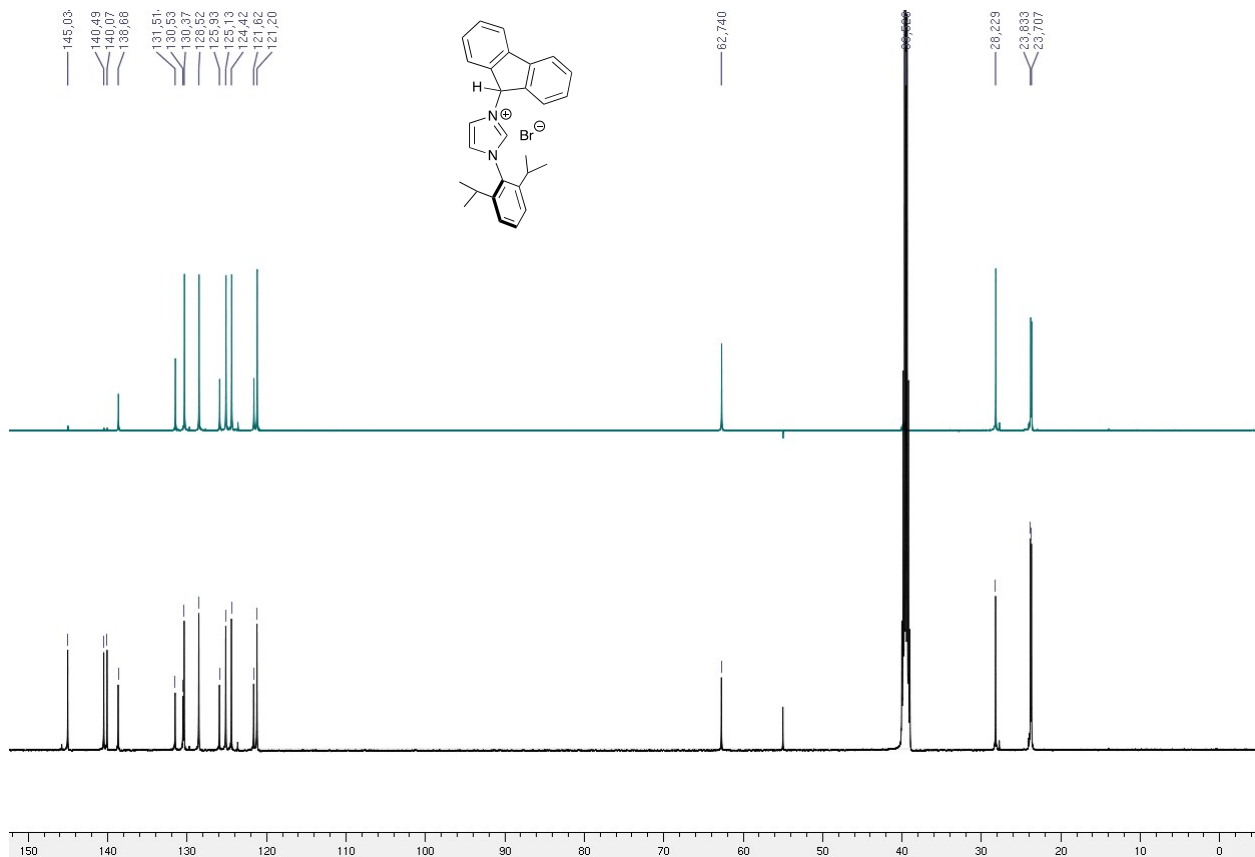
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium 3^{H}



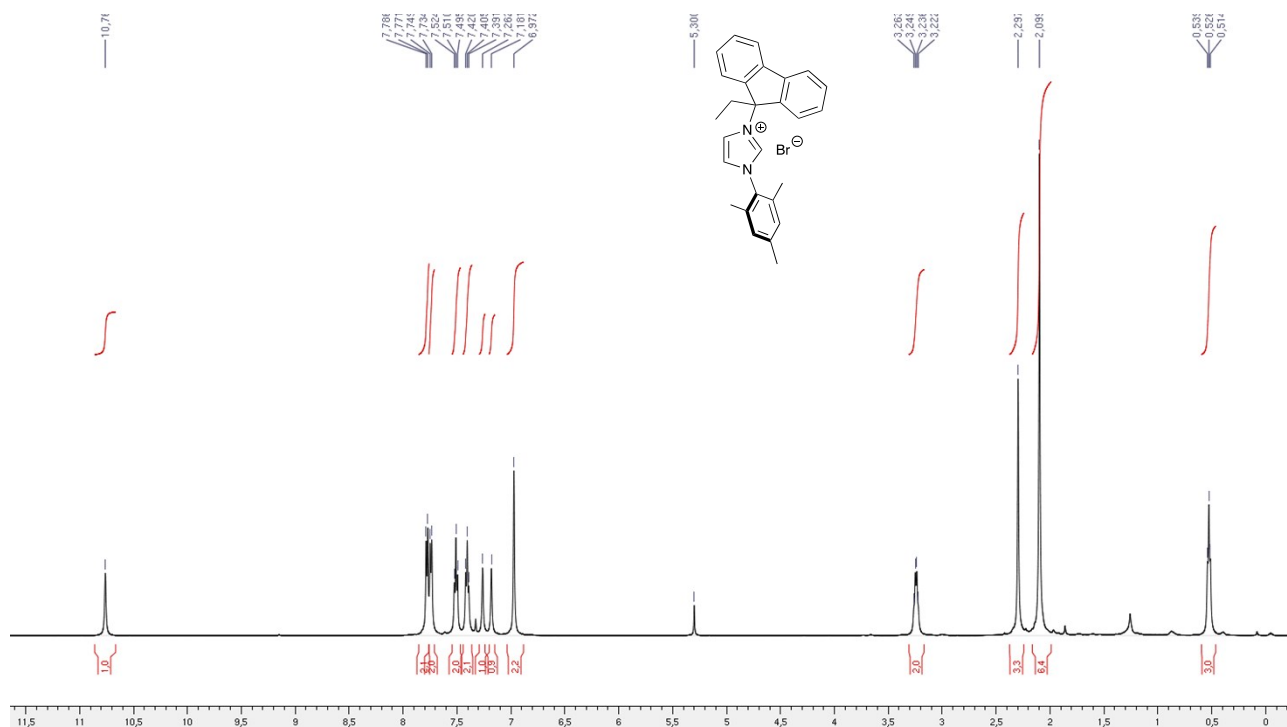
^1H NMR ($[\text{D}_6]$ DMSO, 500 MHz) of imidazolium 4^{H}



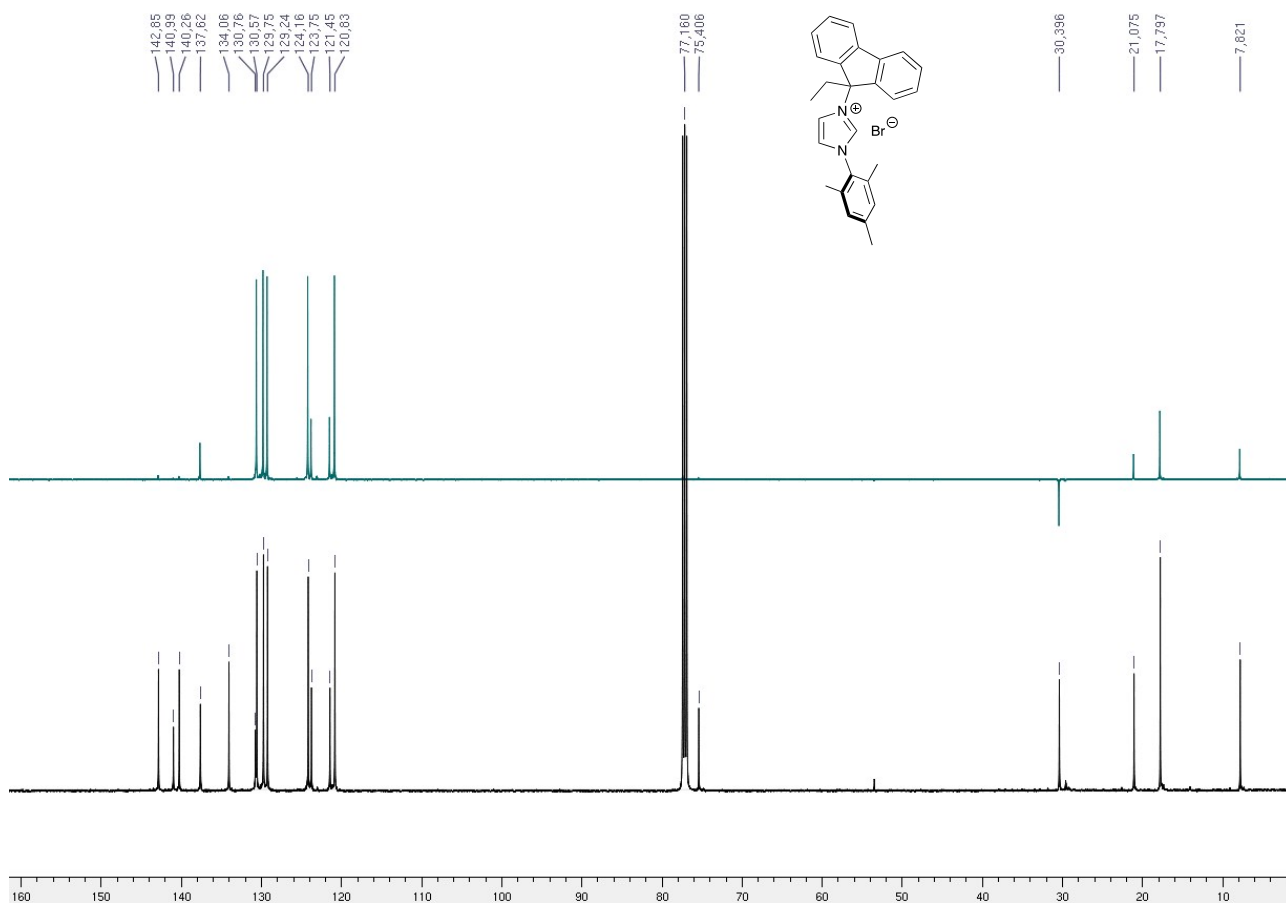
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR ($[\text{D}_6]$ DMSO, 125 MHz) of imidazolium 4^{H}



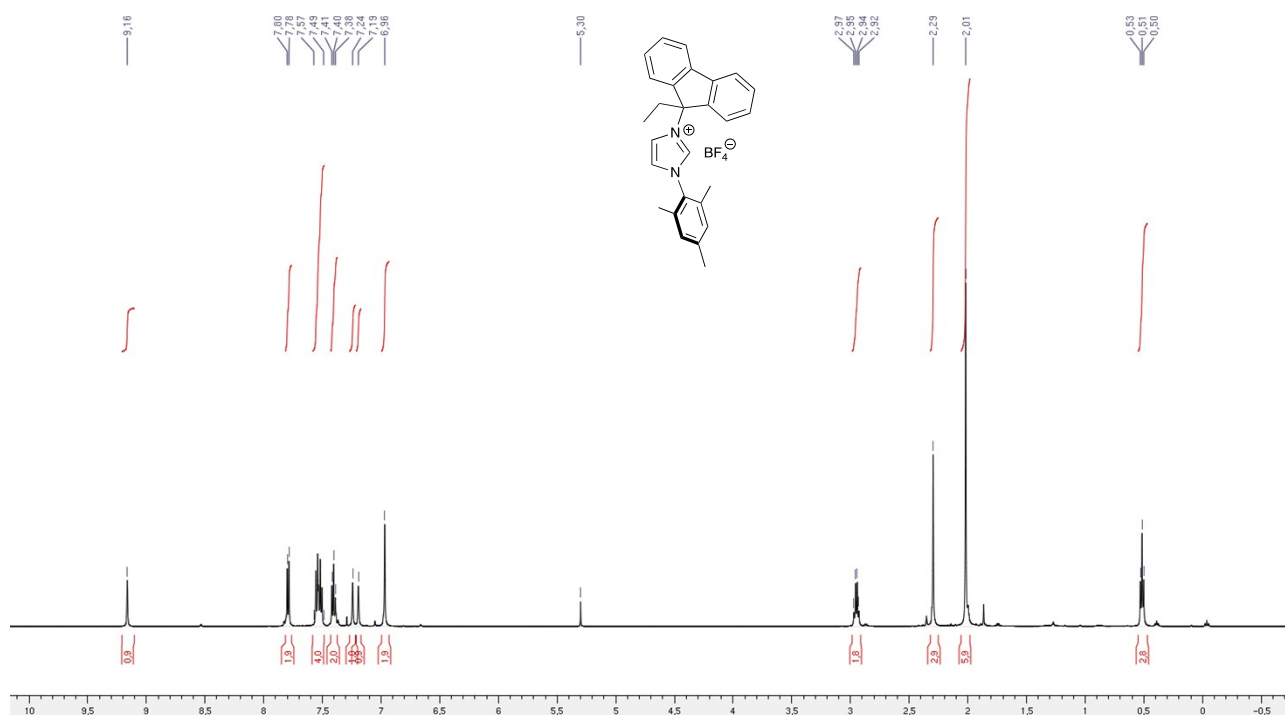
^1H NMR (CDCl_3 , 500 MHz) of imidazolium **3***Et



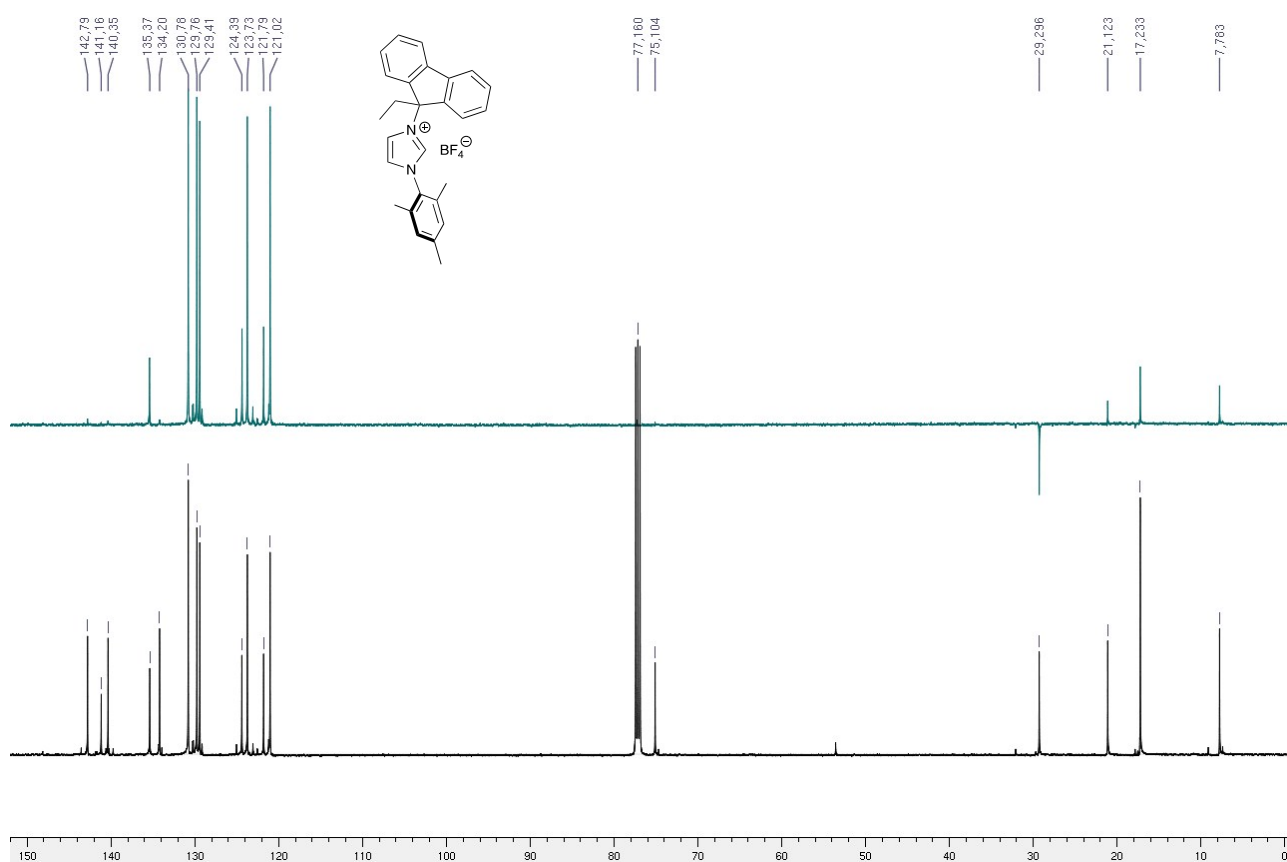
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **3***Et



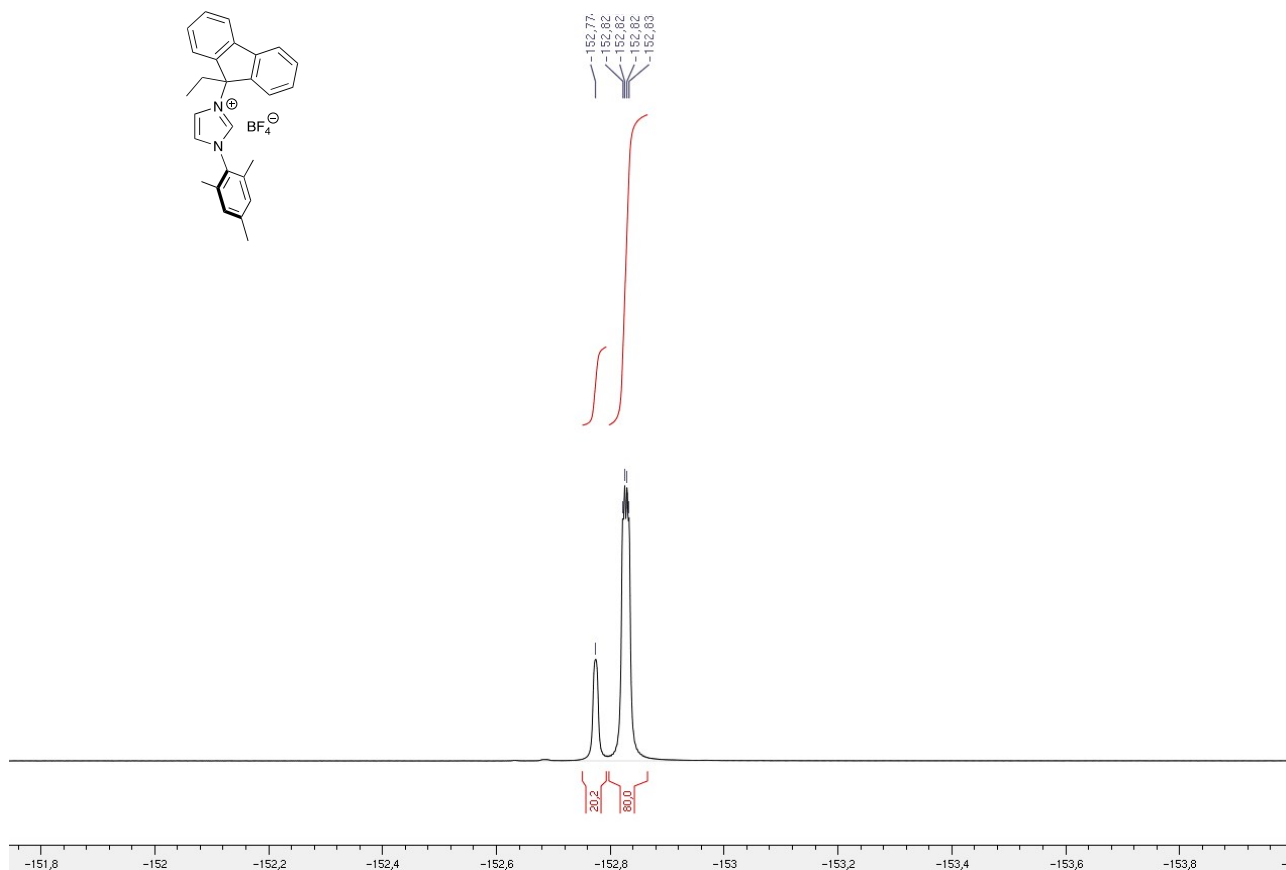
^1H NMR (CDCl_3 , 500 MHz) of imidazolium 3^{Et}



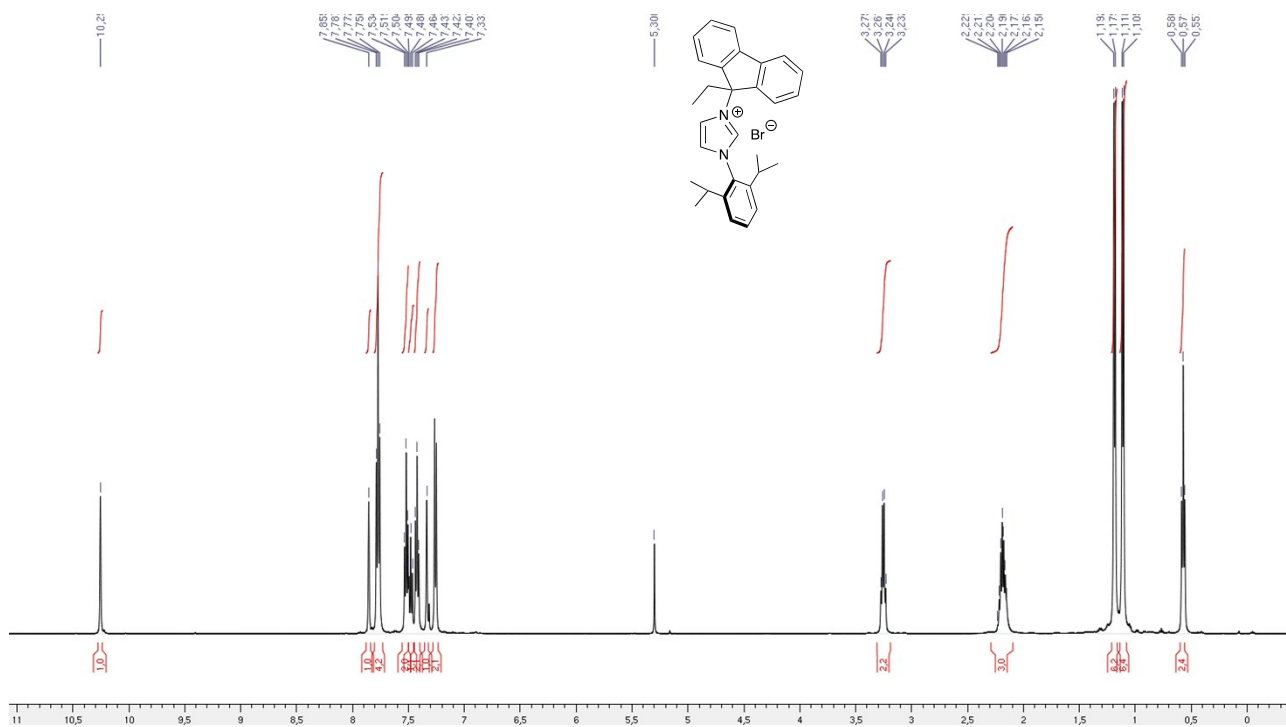
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium 3^{Et}



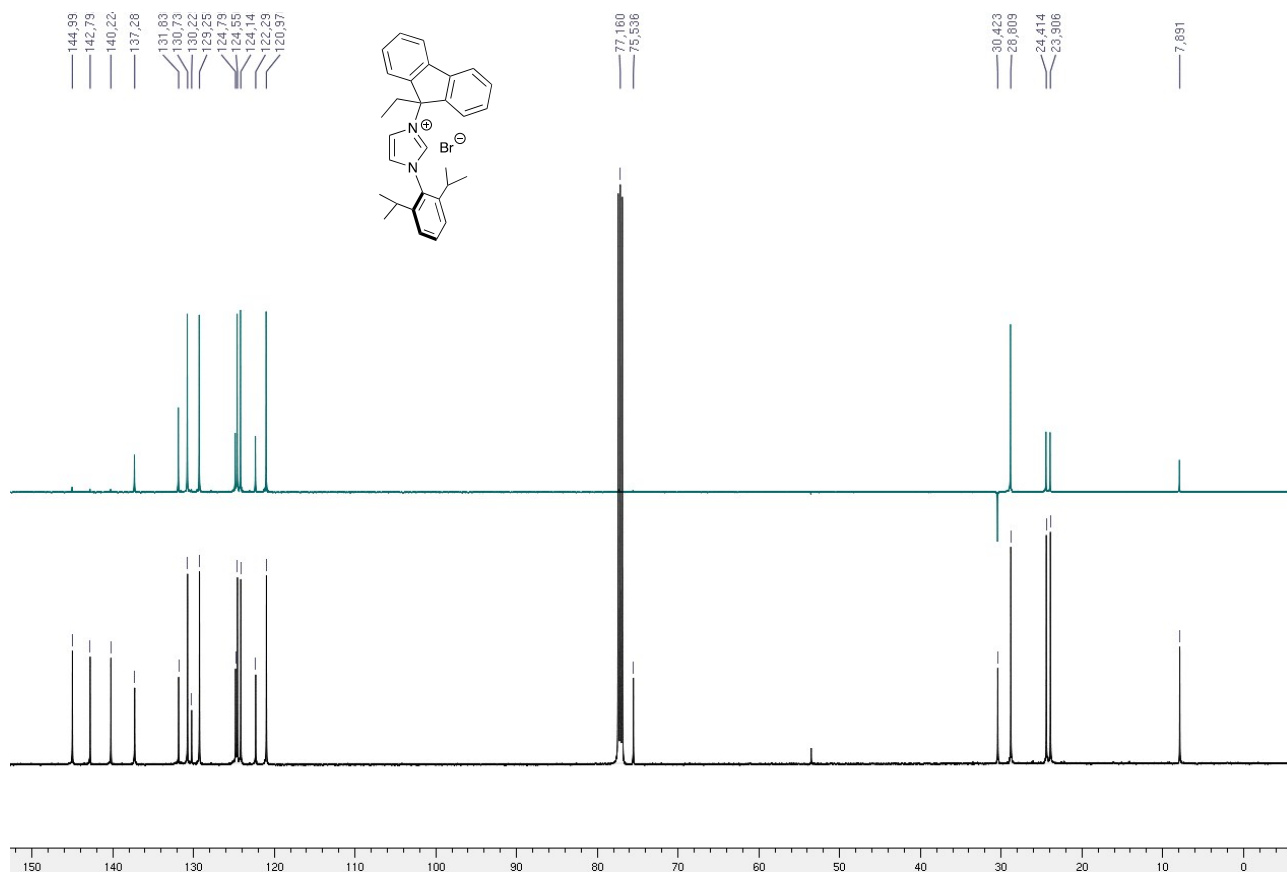
^{19}F NMR (CDCl_3 , 282 MHz) of imidazolium **3**^{Et}



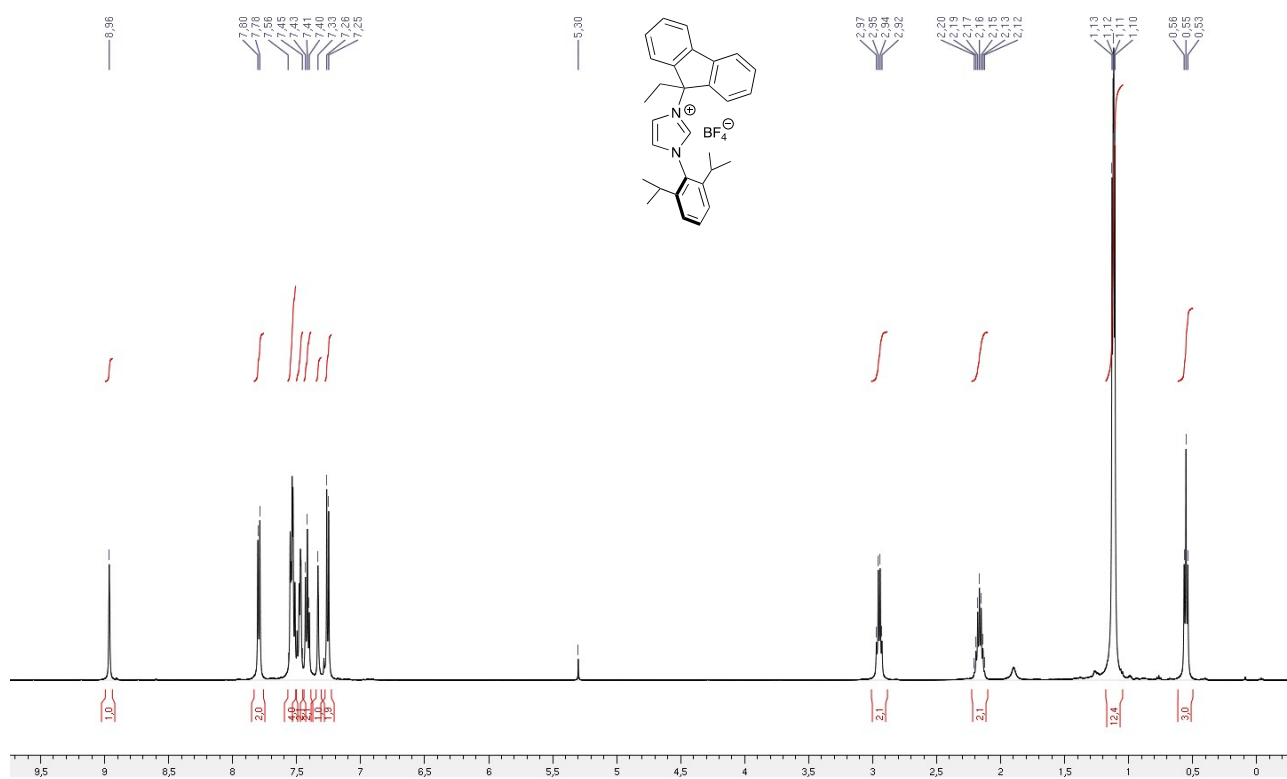
^1H NMR (CDCl_3 , 500 MHz) of imidazolium **4**^{*Et}



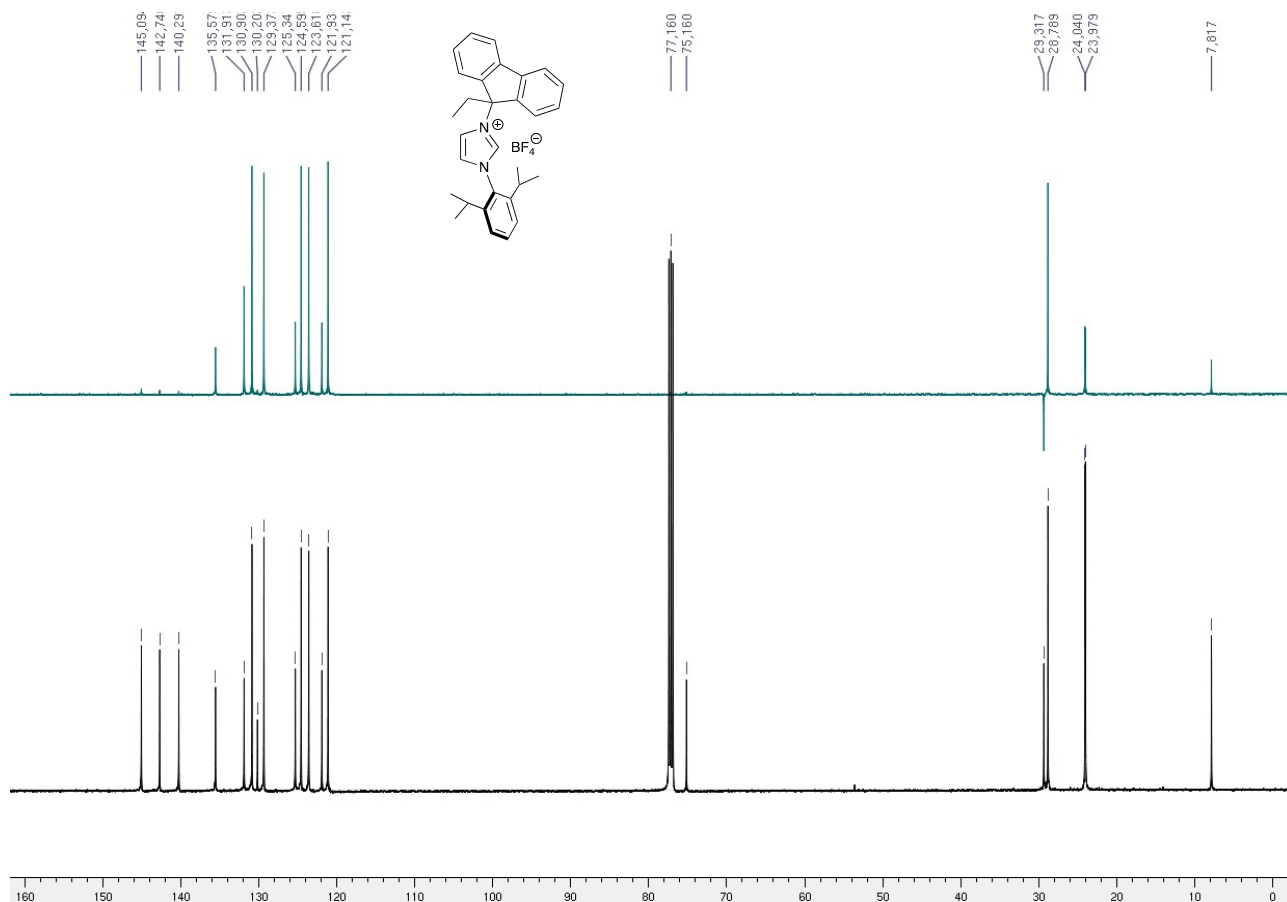
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **4^{Et}**



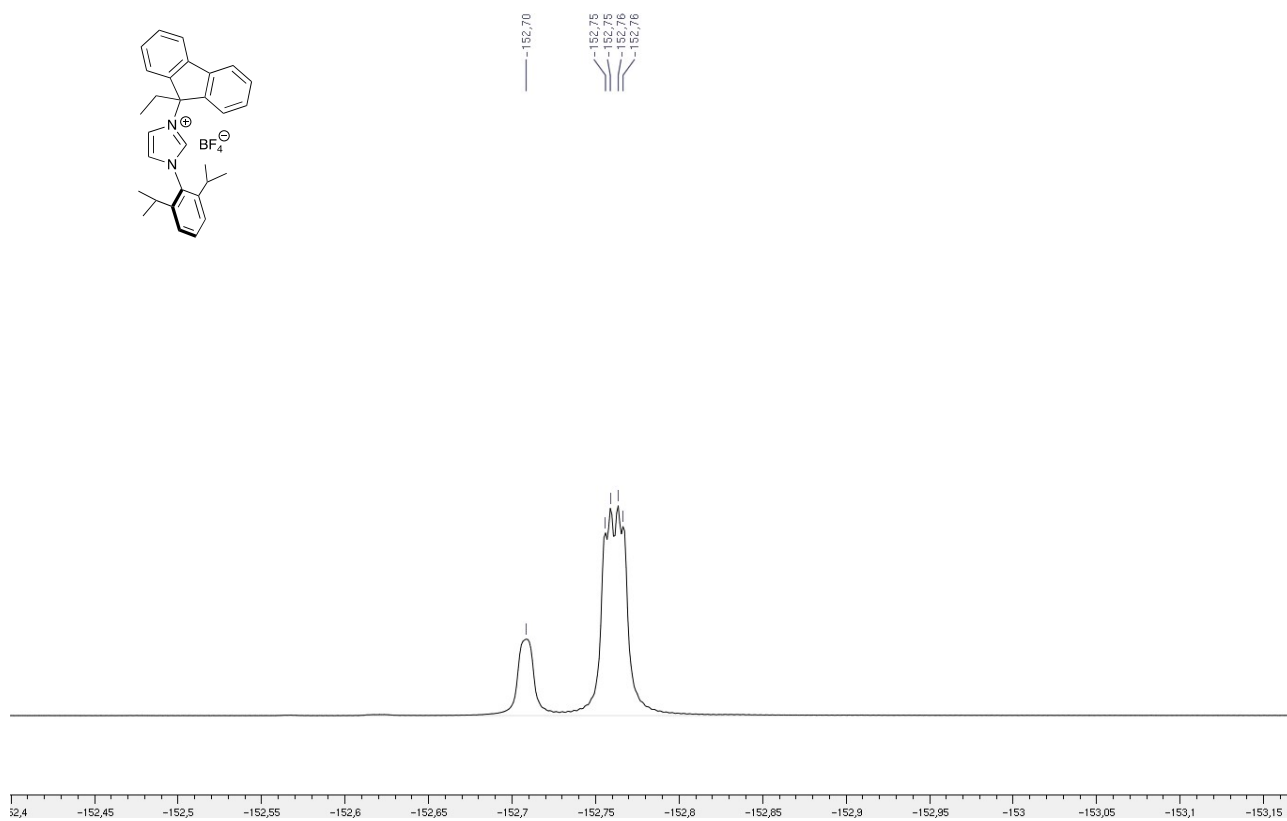
^1H NMR (CDCl_3 , 500 MHz) of imidazolium **4^{Et}**



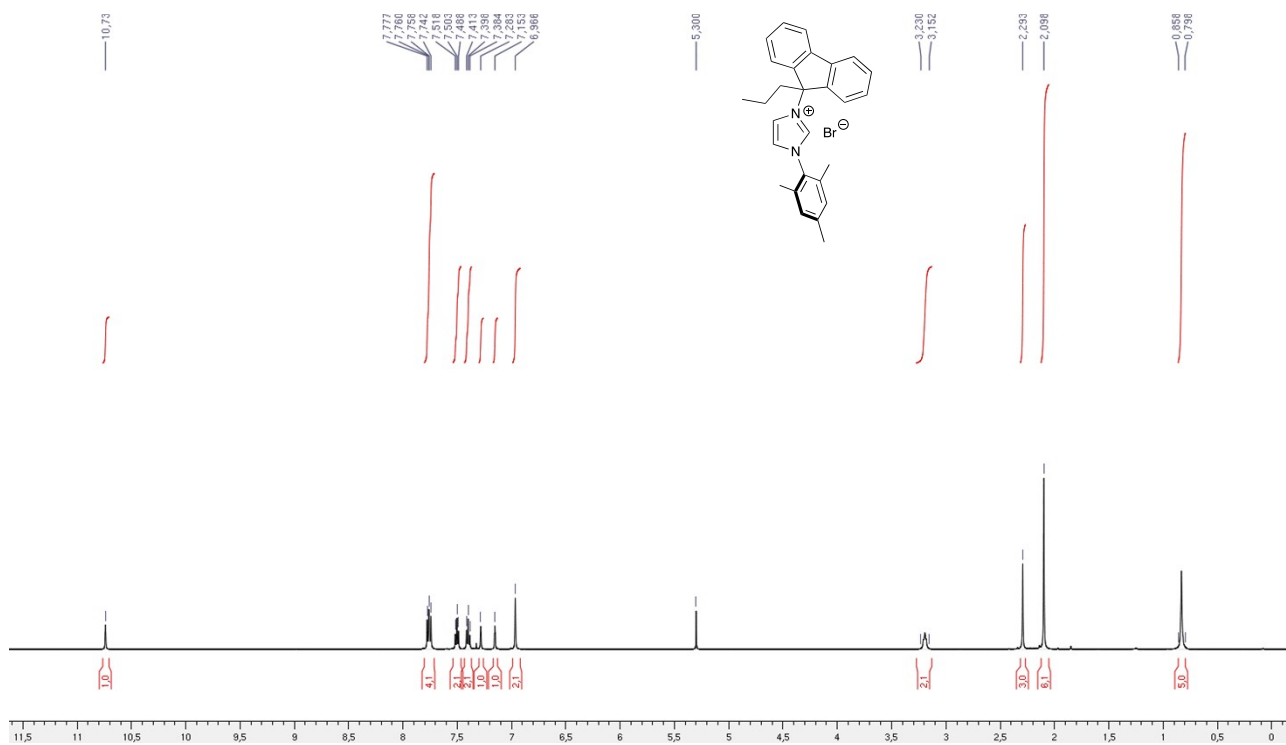
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **4^{Et}**



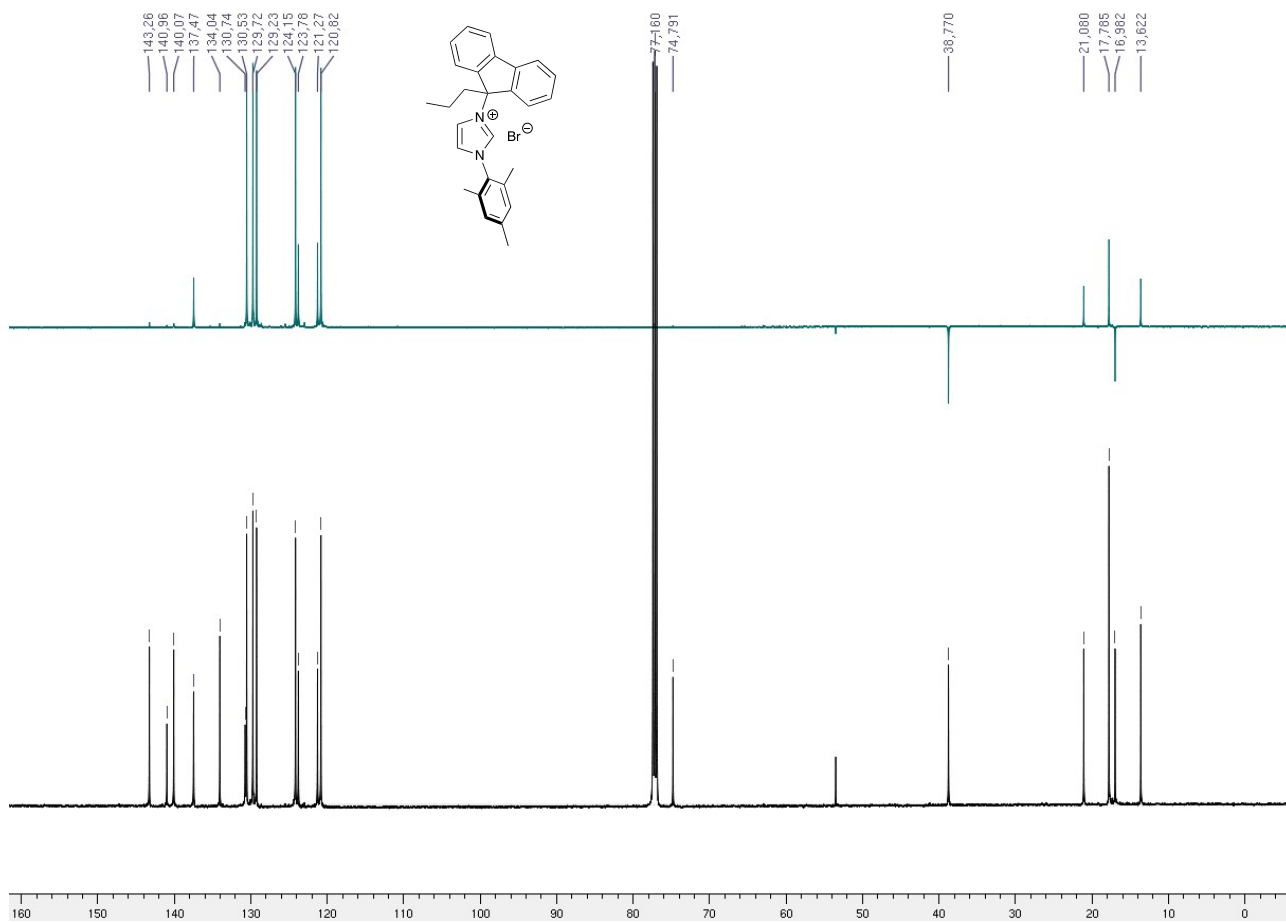
^{19}F NMR (CDCl_3 , 282 MHz) of imidazolium **4^{Et}**



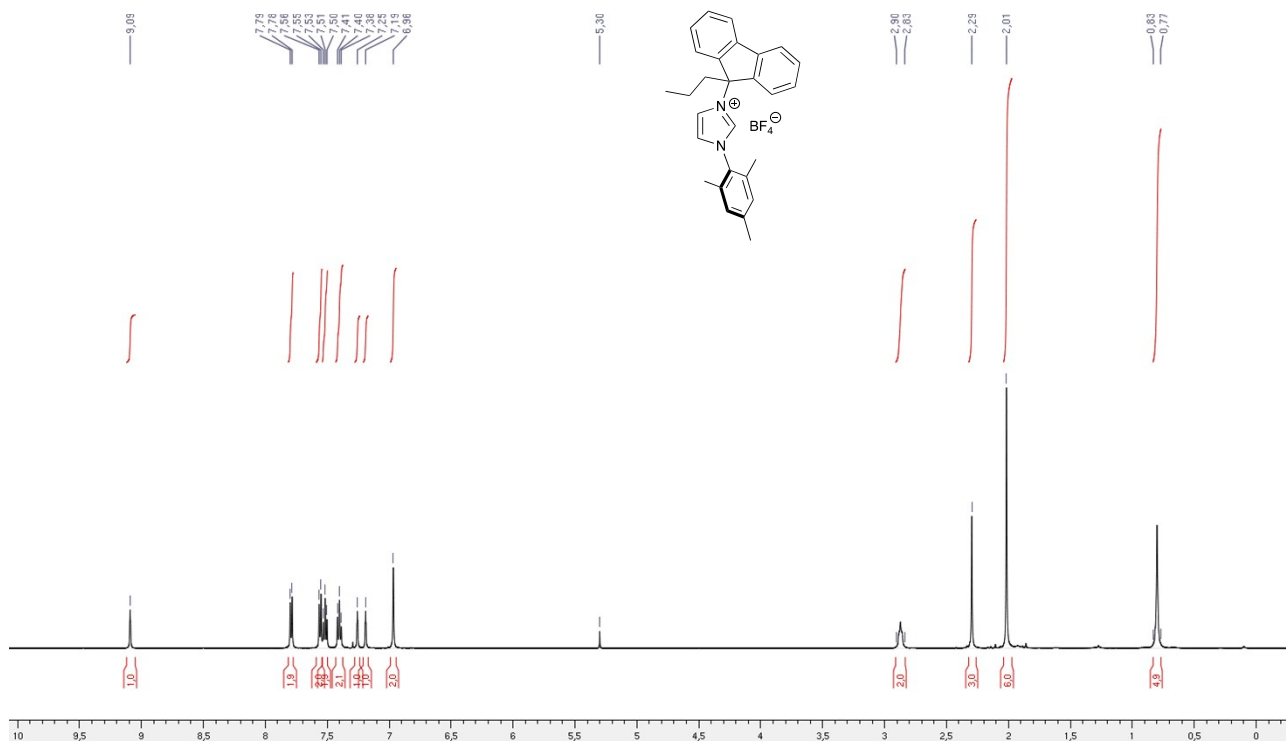
^1H NMR (CDCl_3 , 500 MHz) of imidazolium **3*Pr**



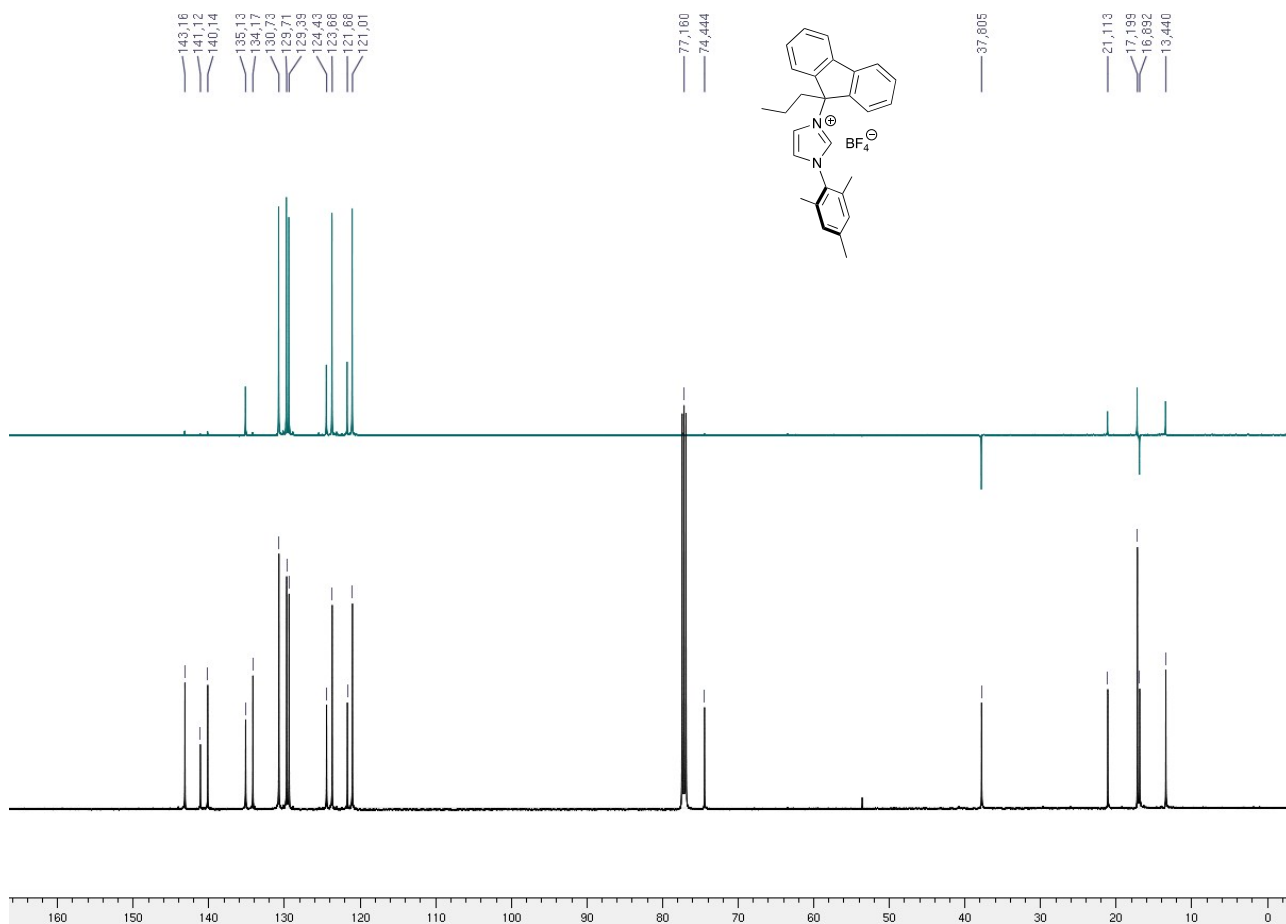
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **3*Pr**



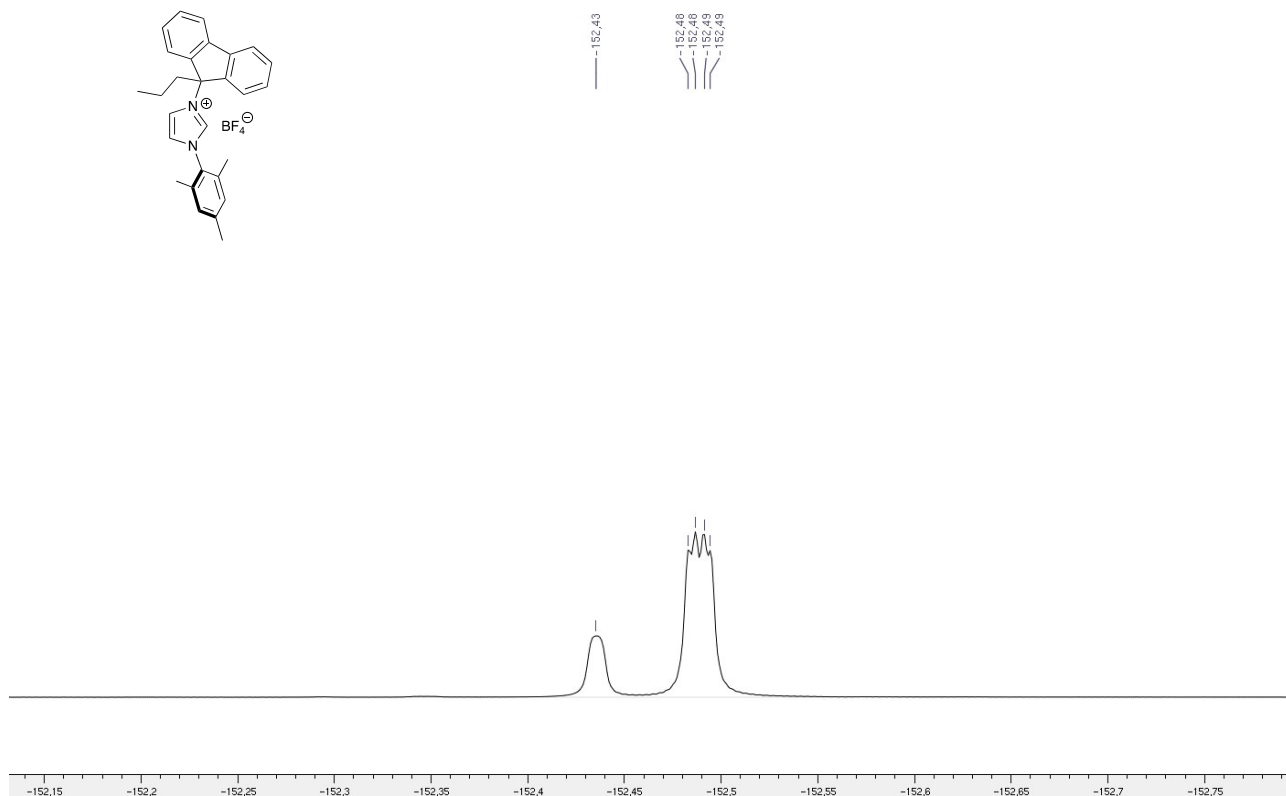
^1H NMR (CDCl_3 , 500 MHz) of imidazolium **3Pr**



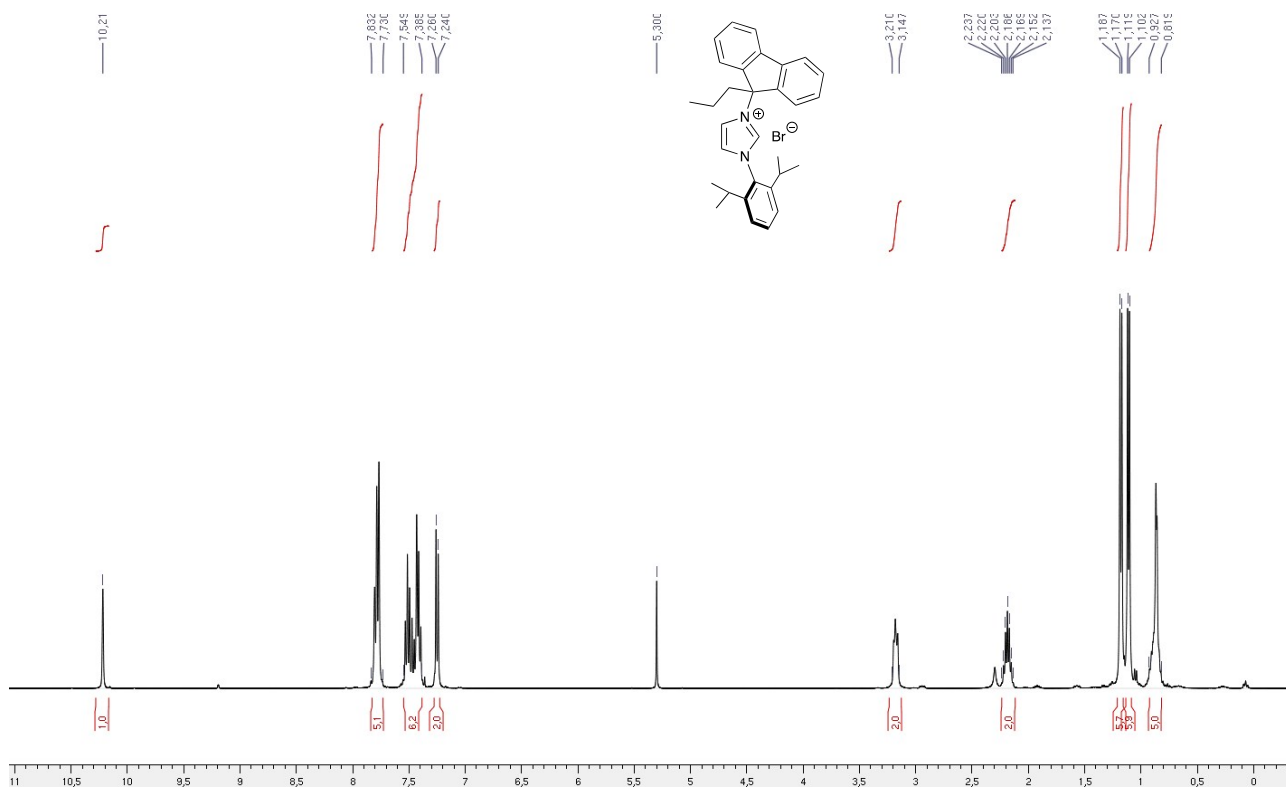
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **3Pr**



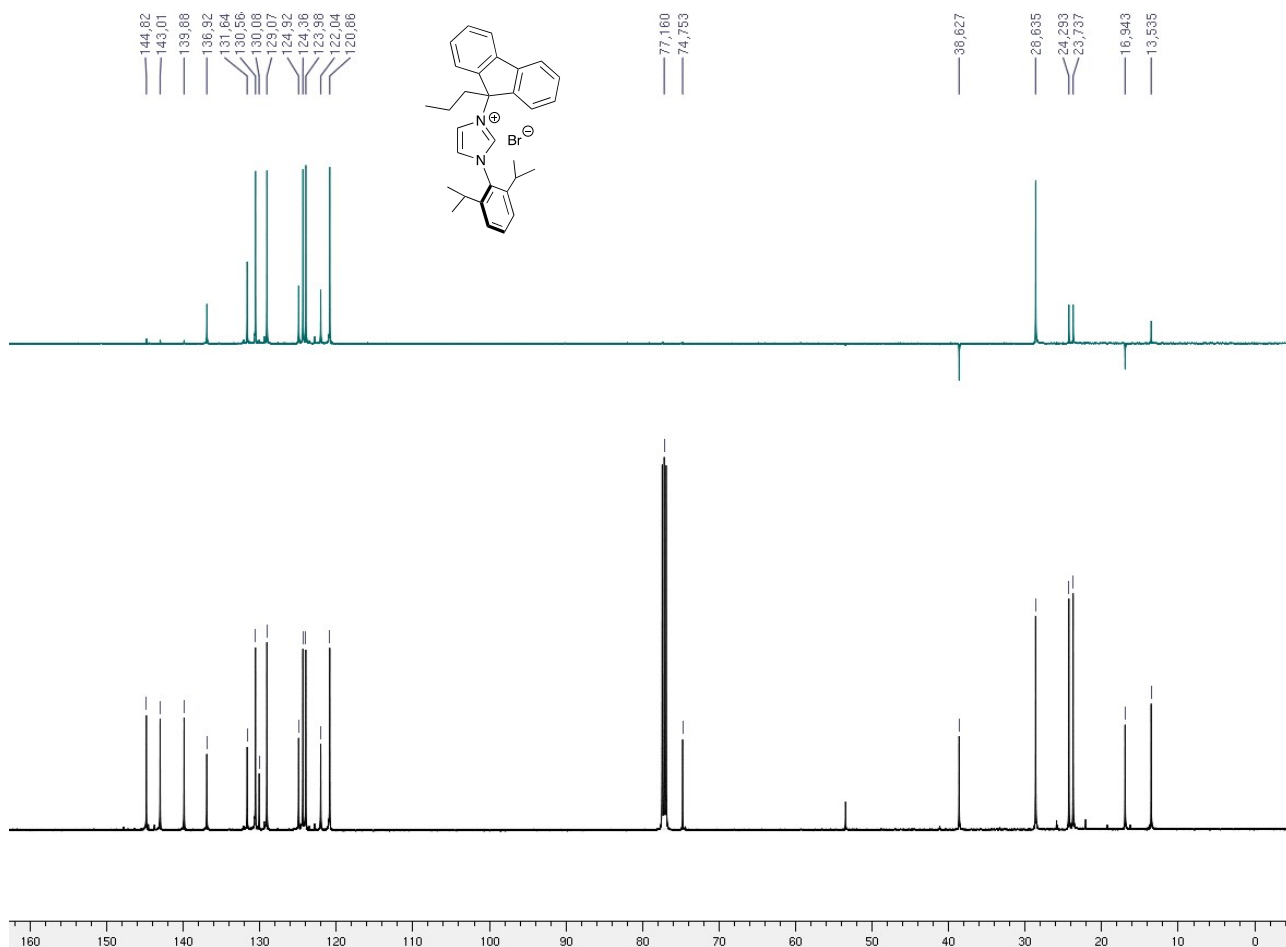
^{19}F NMR (CDCl_3 , 282 MHz) of imidazolium **3^{Pr}**



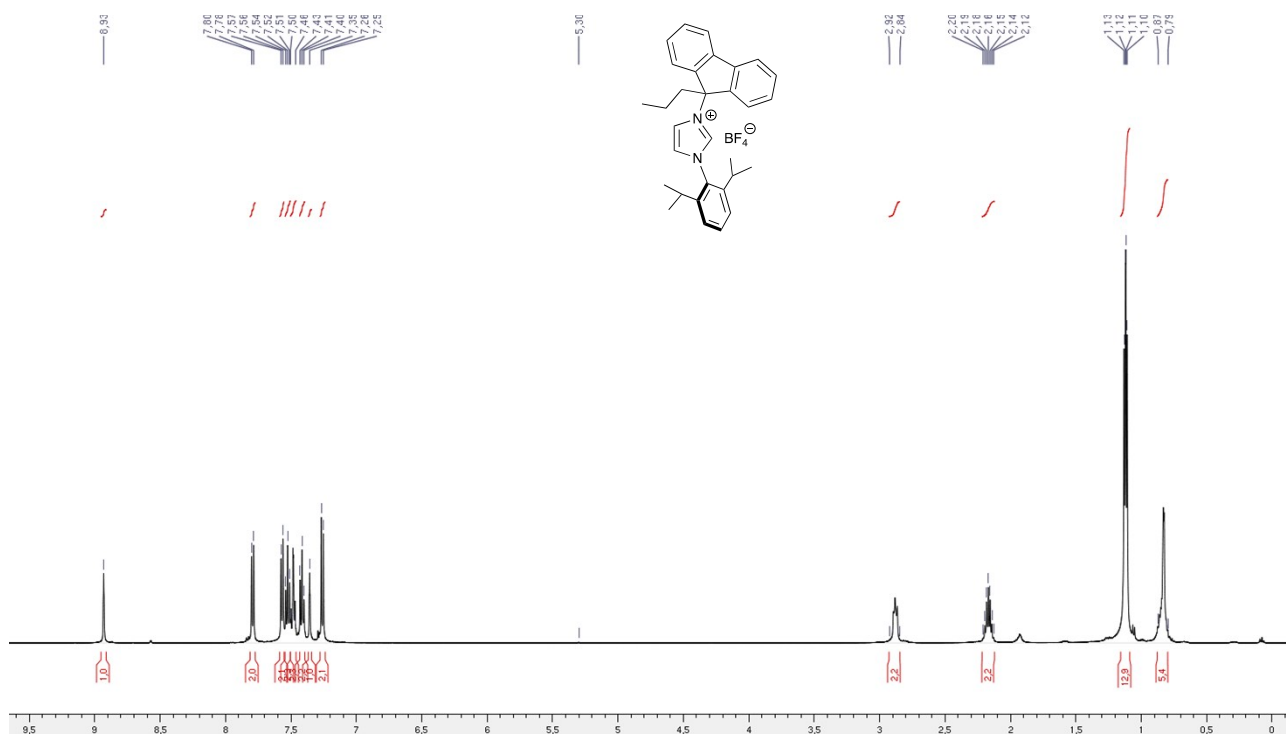
^1H NMR (CDCl_3 , 400 MHz) of imidazolium **4*Pr**



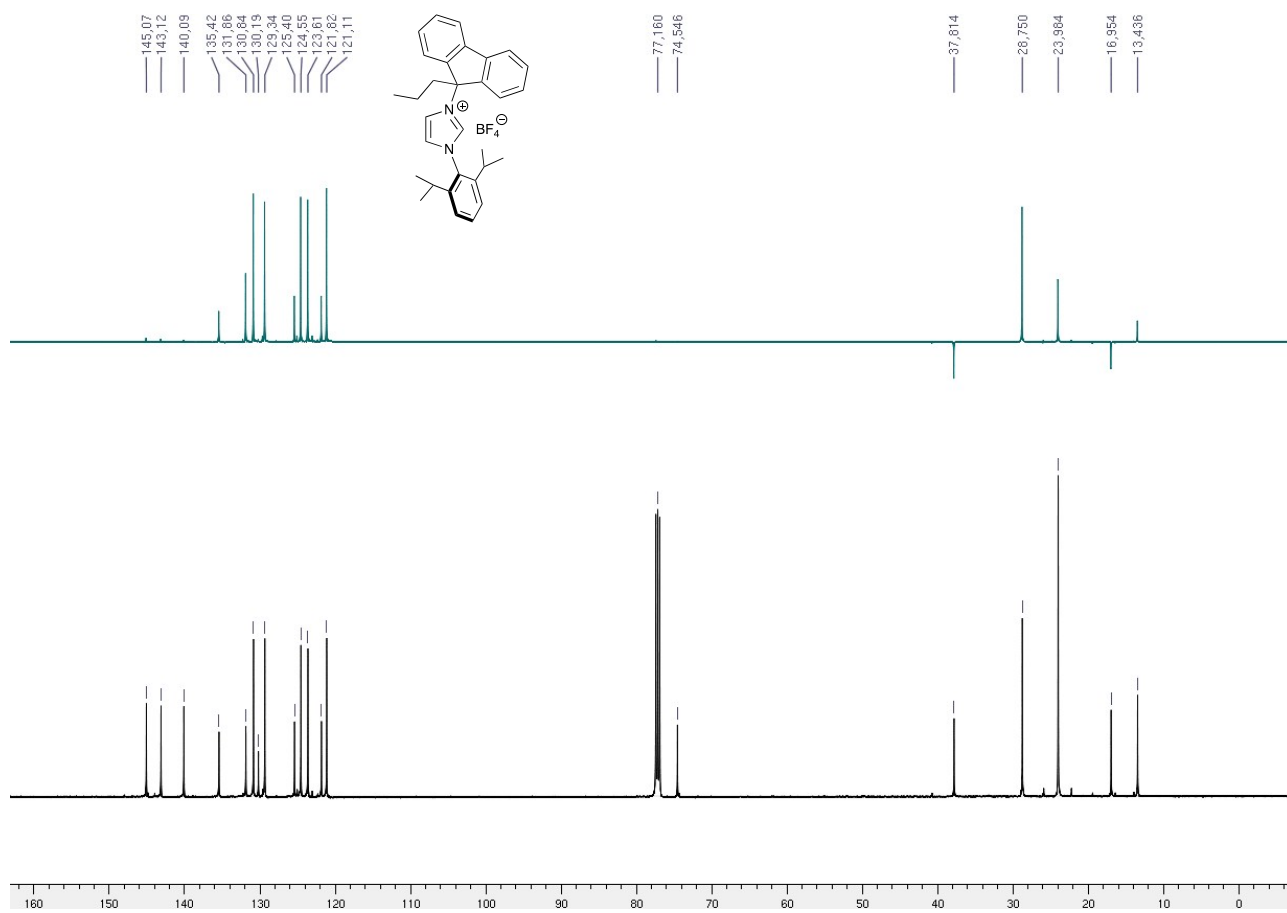
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **4^{Pr}**



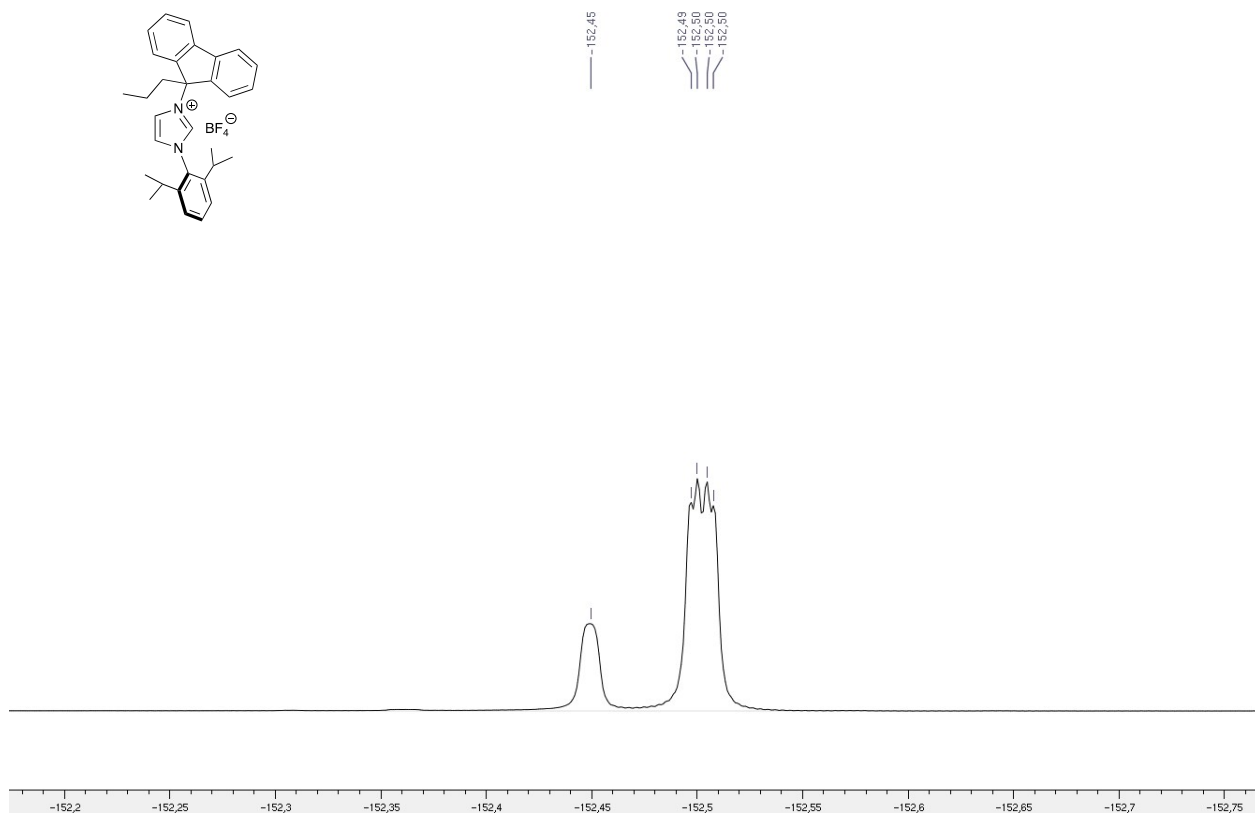
^1H NMR (CDCl_3 , 500 MHz) of imidazolium **4^{Pr}**



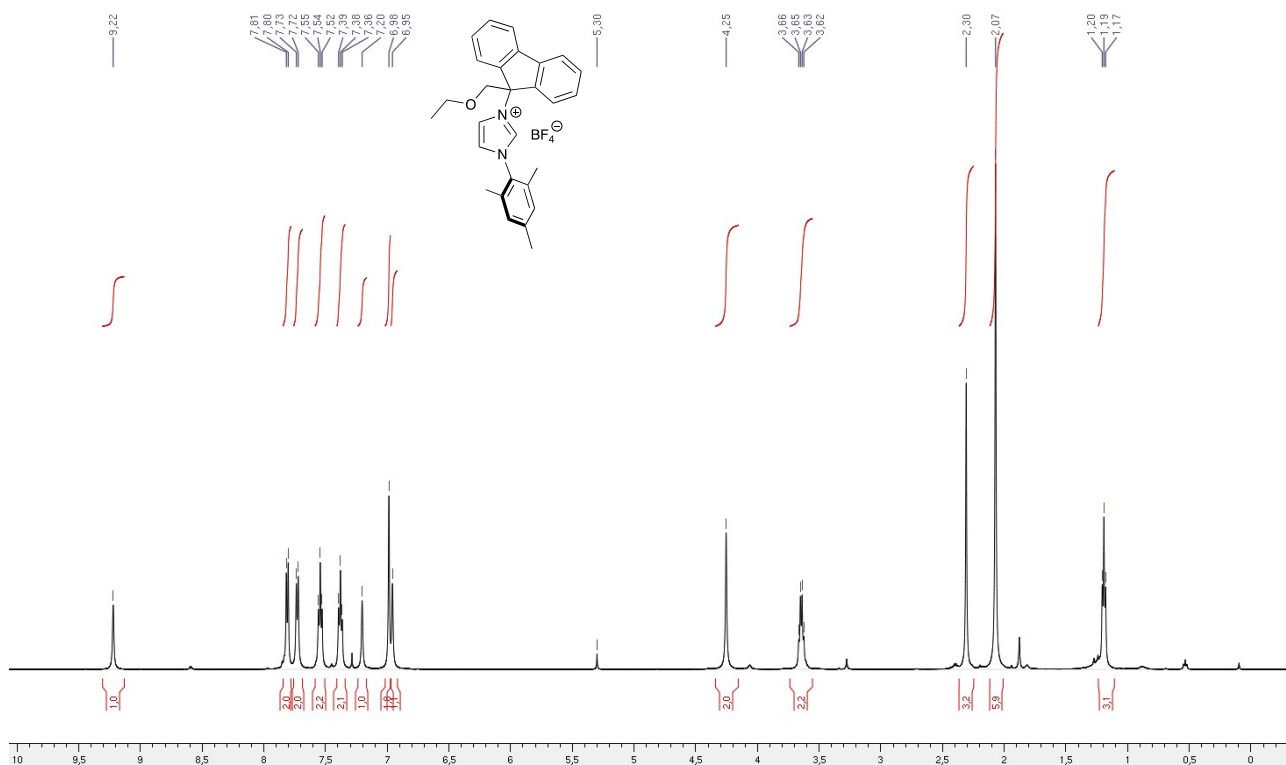
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **4Pr**



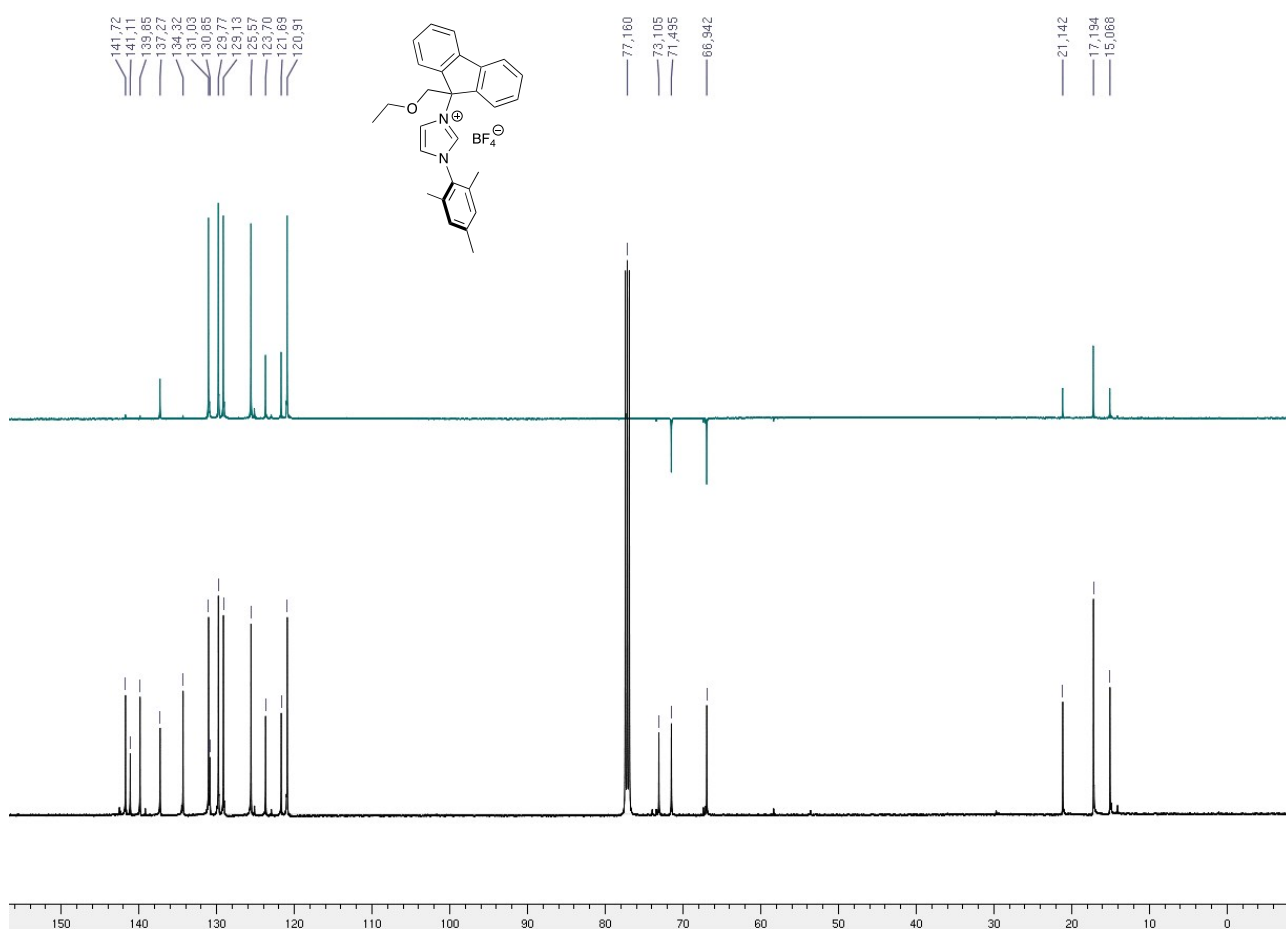
^{19}F NMR (CDCl_3 , 282 MHz) of imidazolium **4Pr**



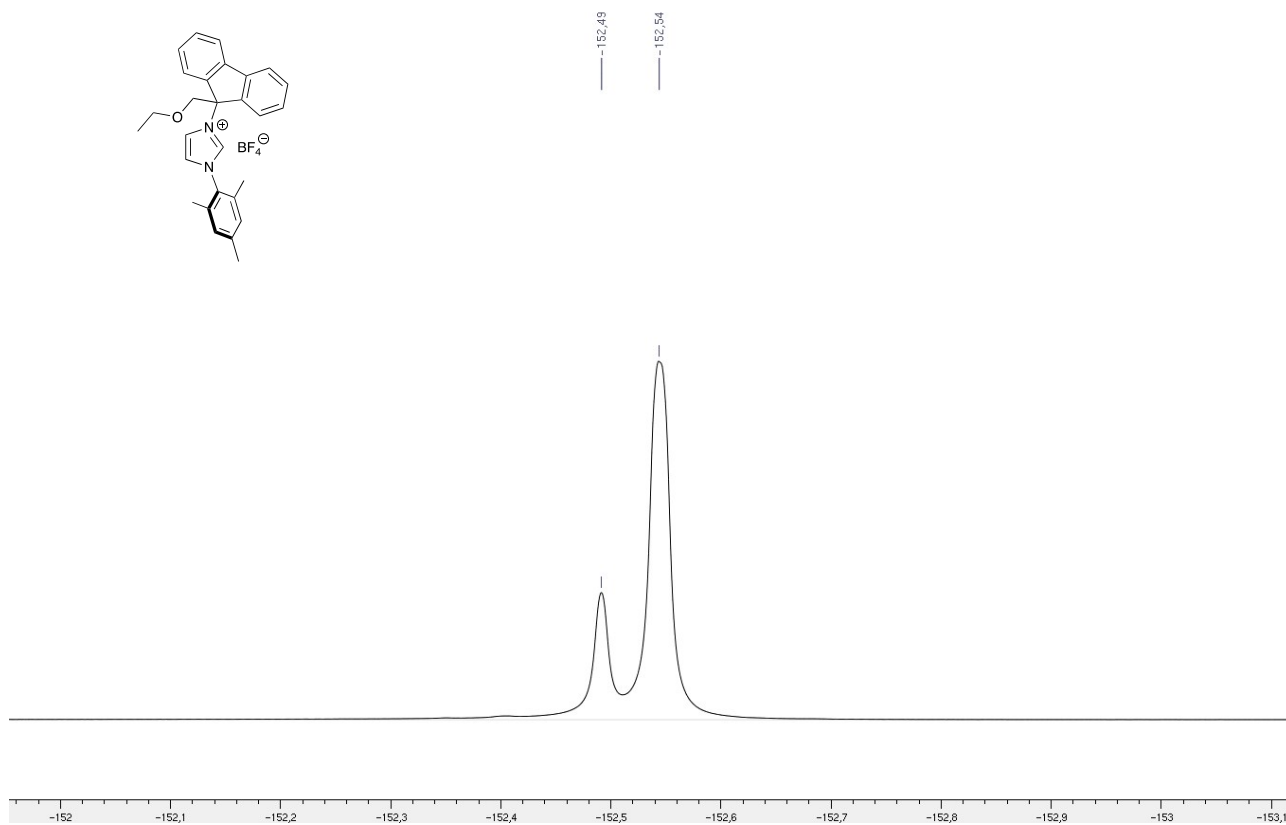
^1H NMR (CDCl_3 , 500 MHz) of imidazolium **3**^{EOM}



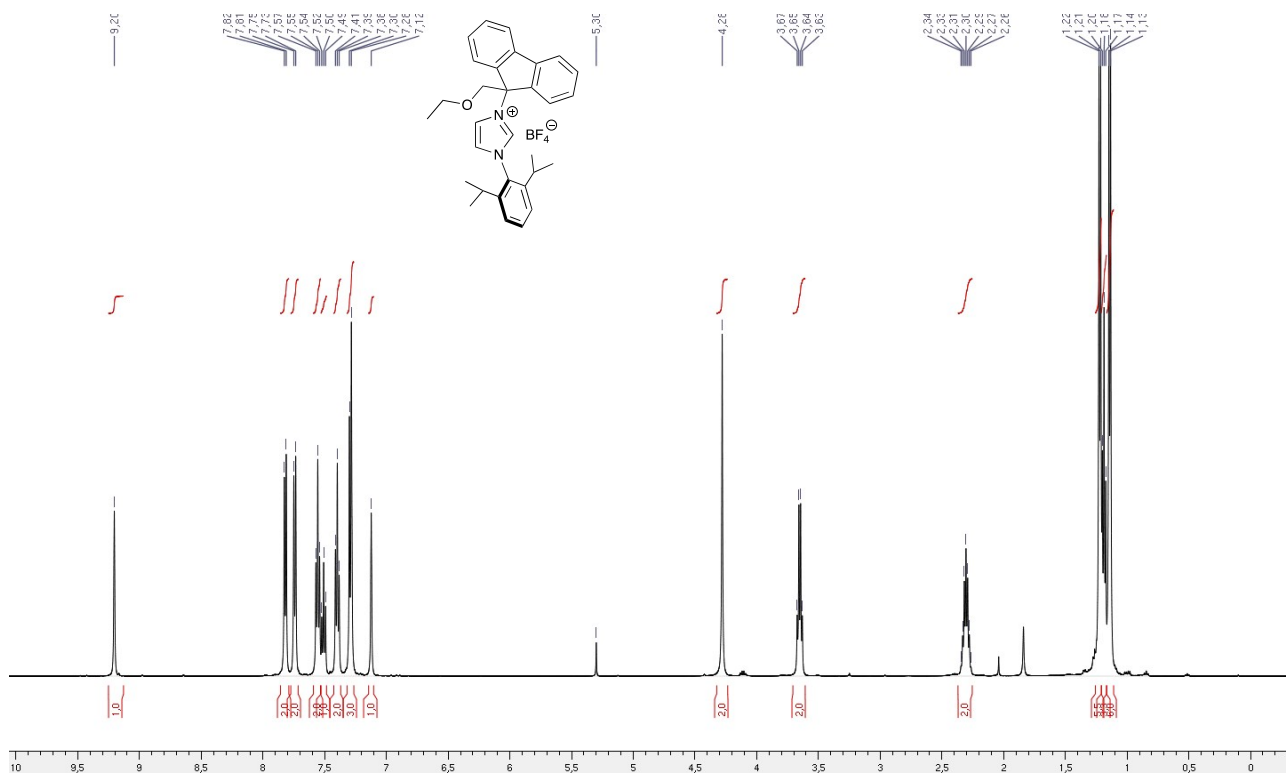
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **3**^{EOM}



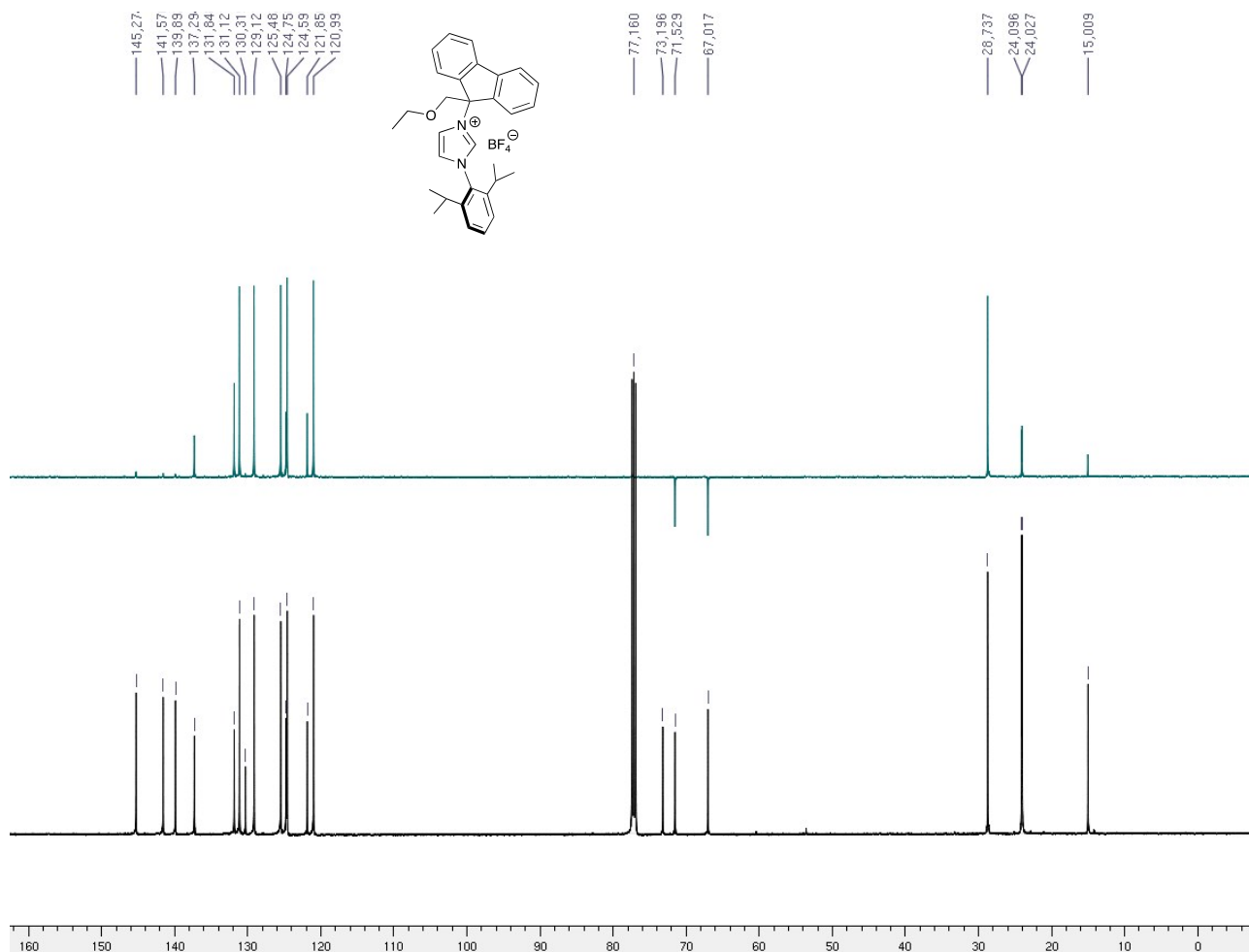
^{19}F NMR (CDCl_3 , 282 MHz) of imidazolium **3**^{EOM}



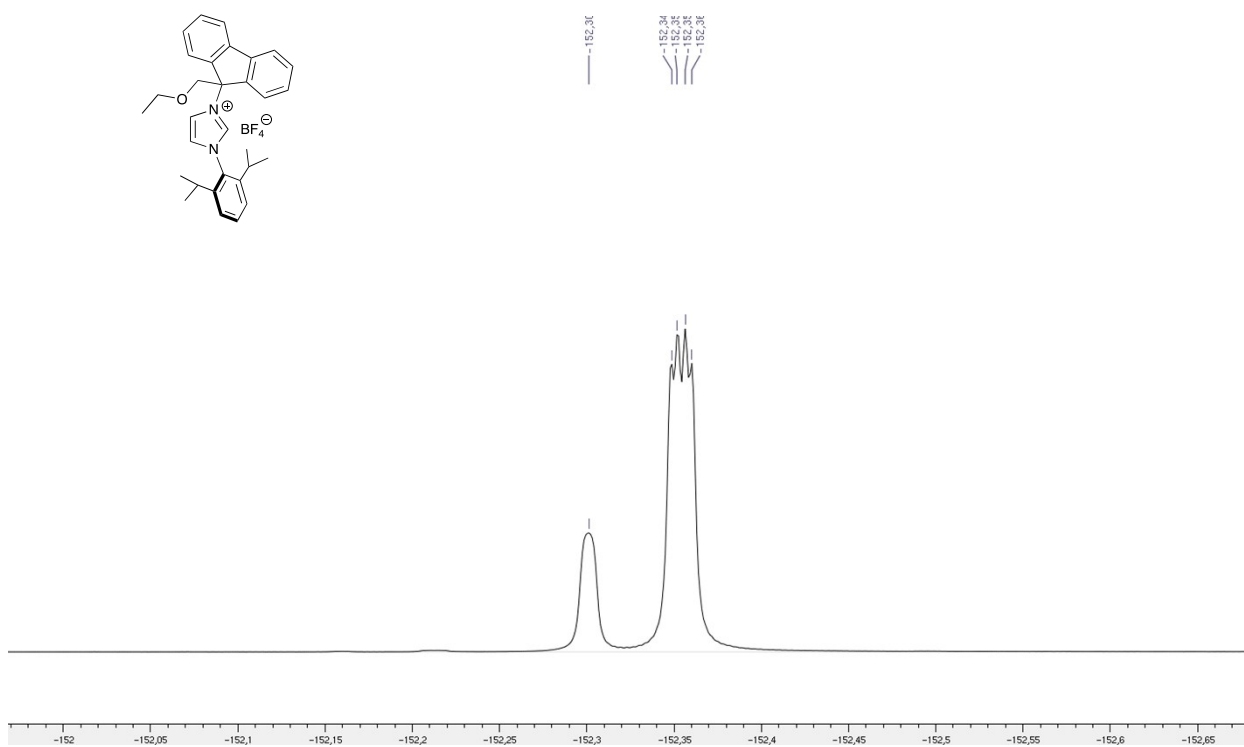
^1H NMR (CDCl_3 , 500 MHz) of imidazolium **4**^{EOM}



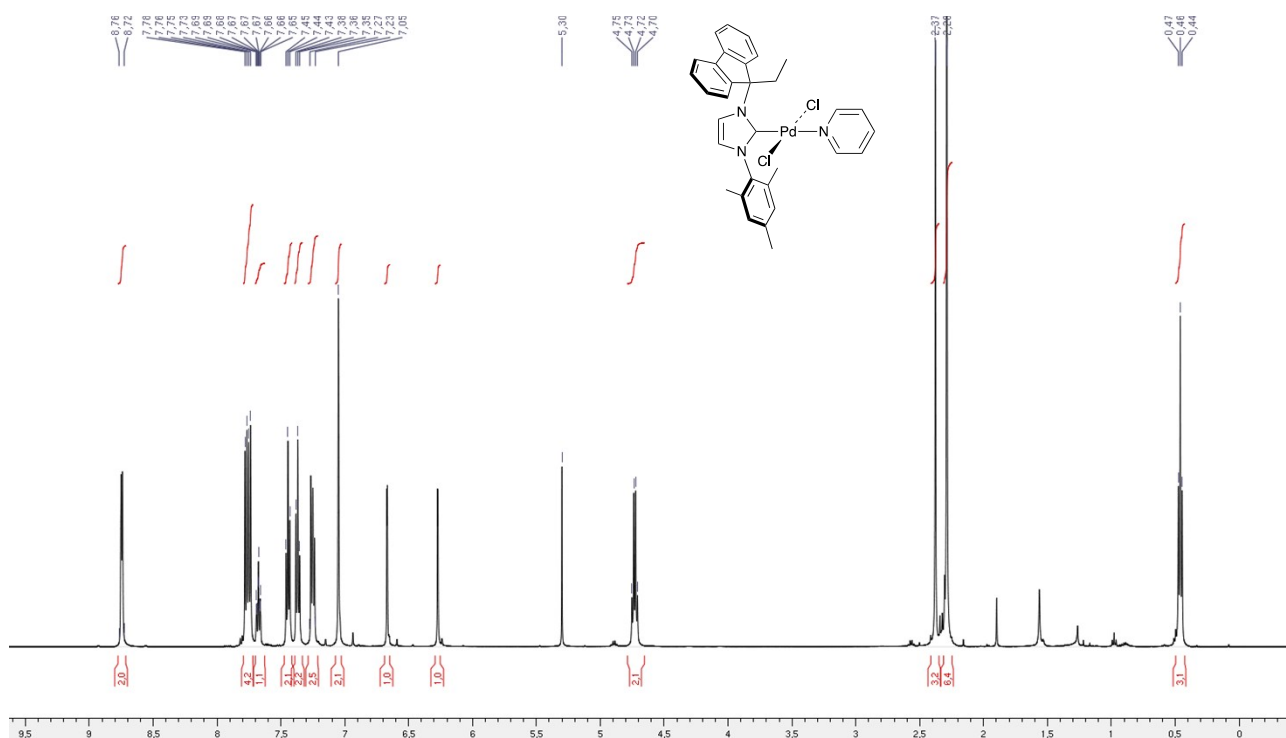
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **4**^{EOM}



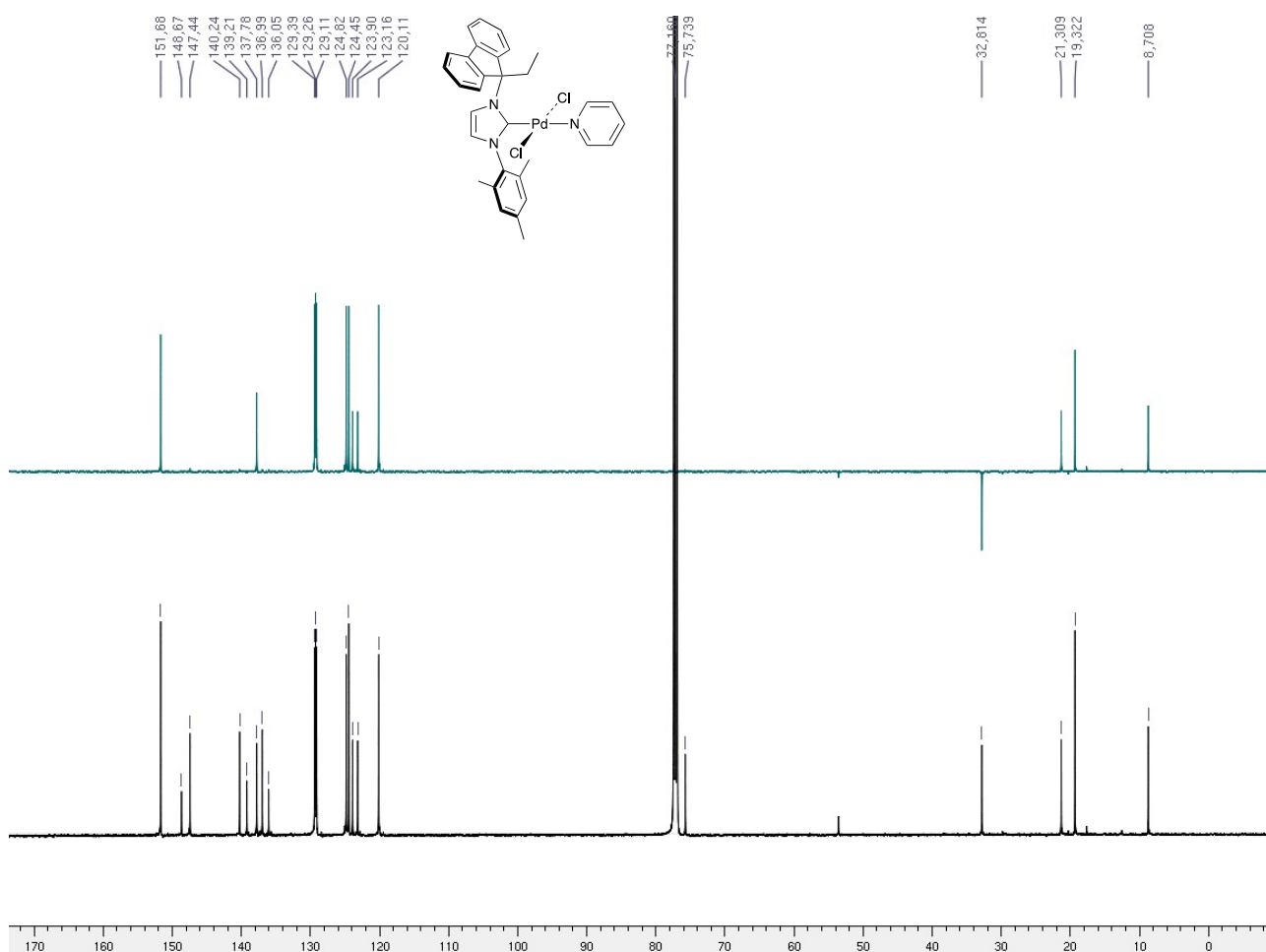
^{19}F NMR (CDCl_3 , 282 MHz) of imidazolium **4**^{EOM}



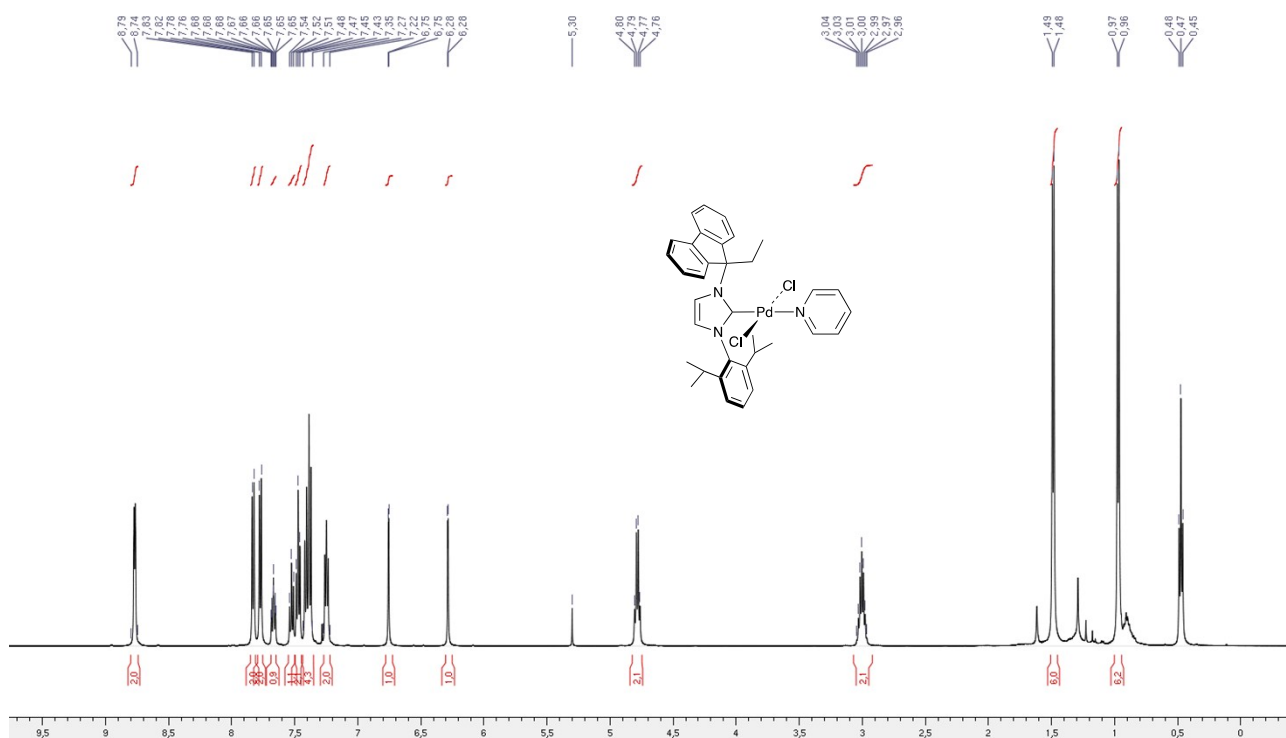
^1H NMR (CDCl_3 , 500 MHz) of complex 5^{Et}



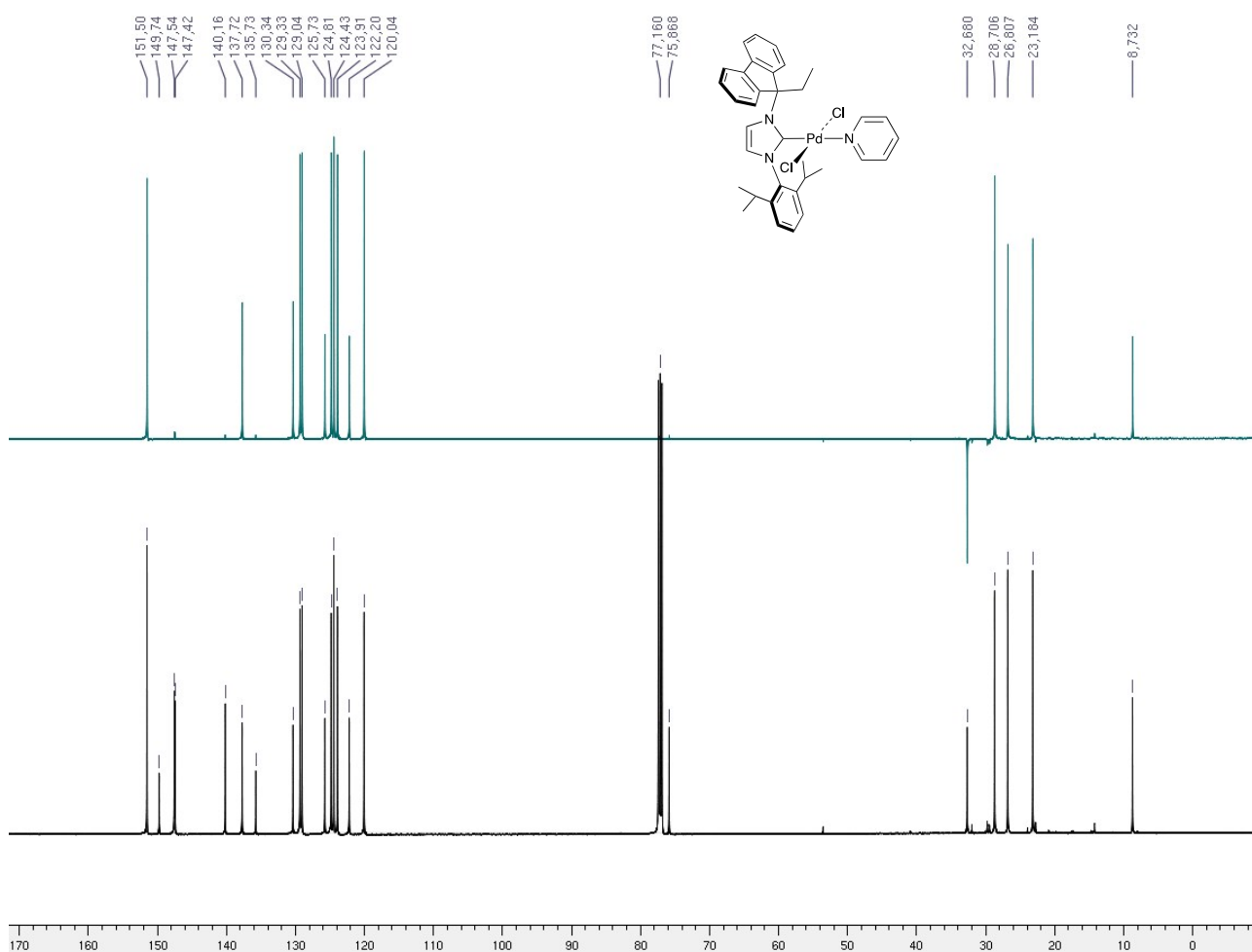
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of complex 5^{Et}



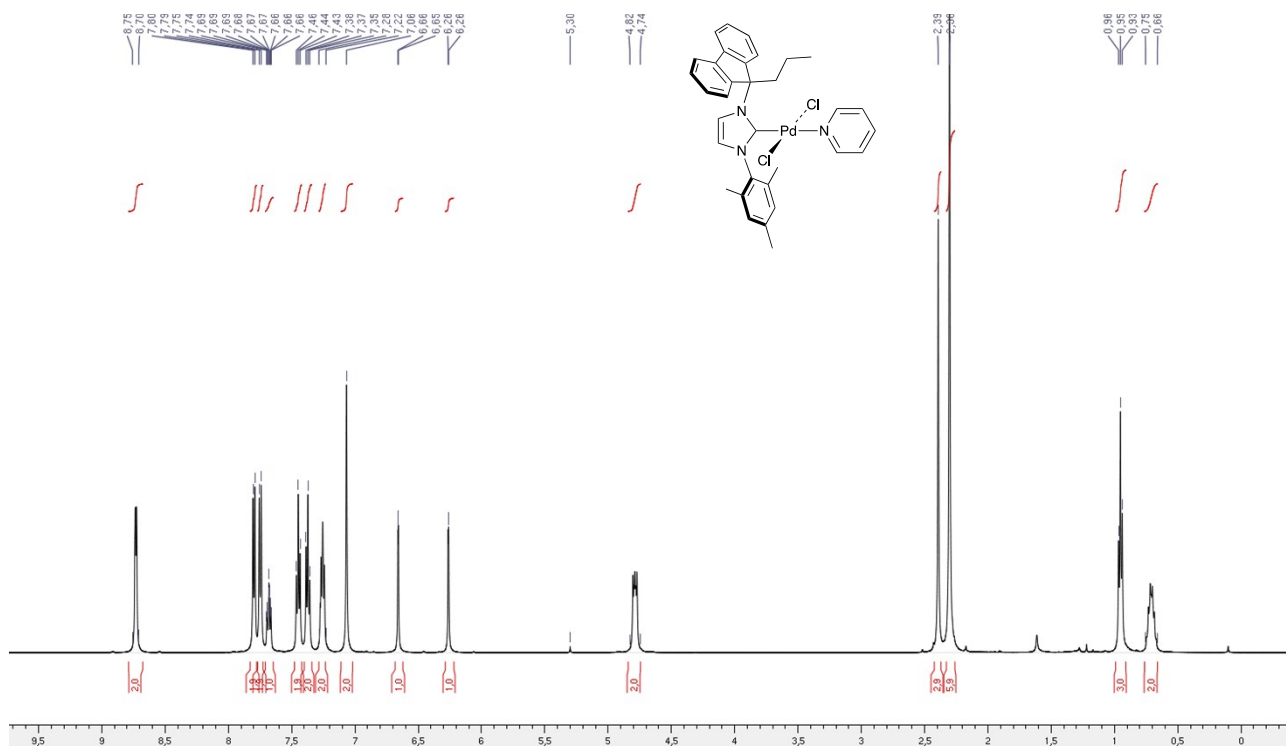
^1H NMR (CDCl_3 , 500 MHz) of complex **6^{Et}**



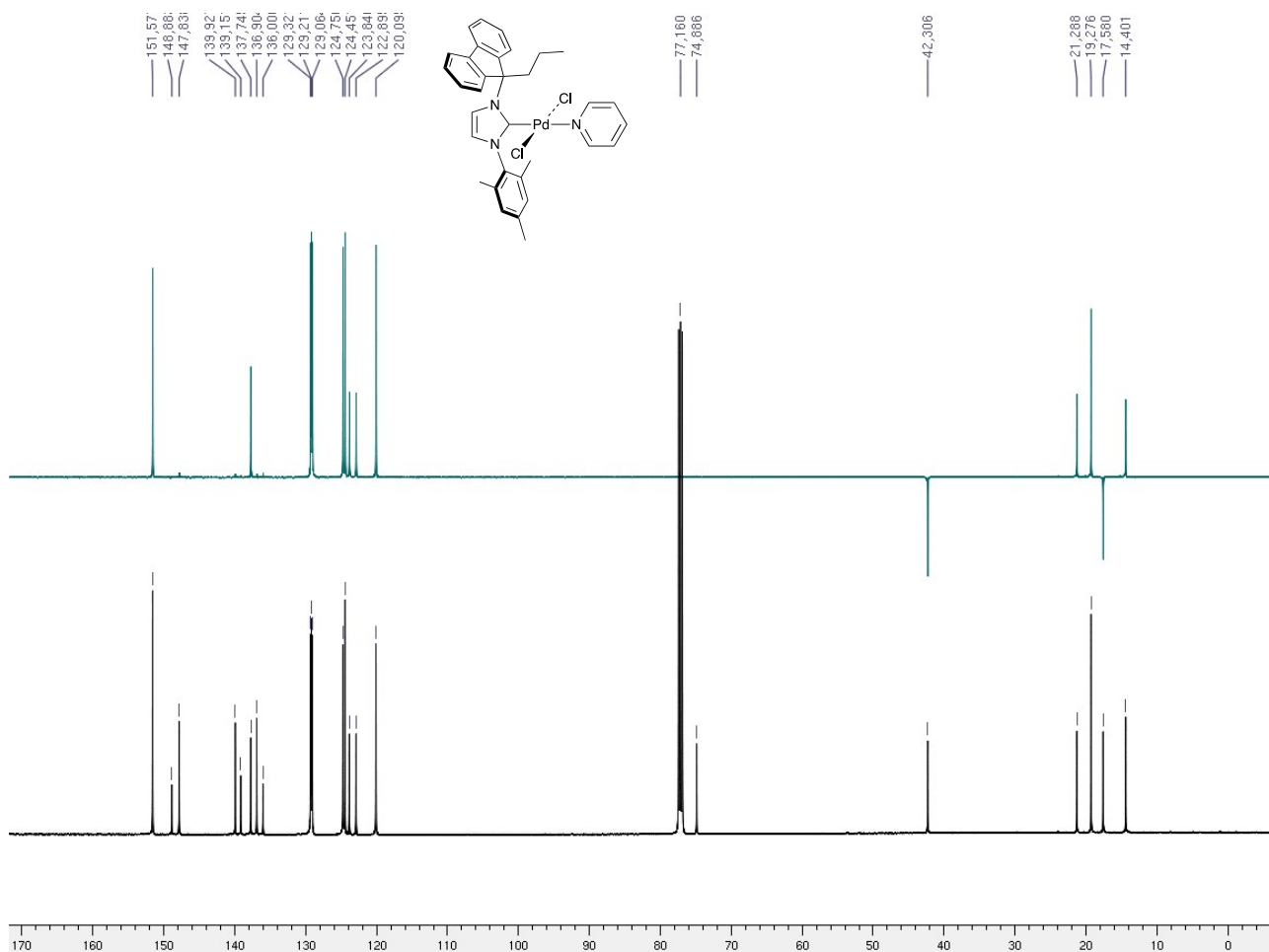
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of complex **6^{Et}**



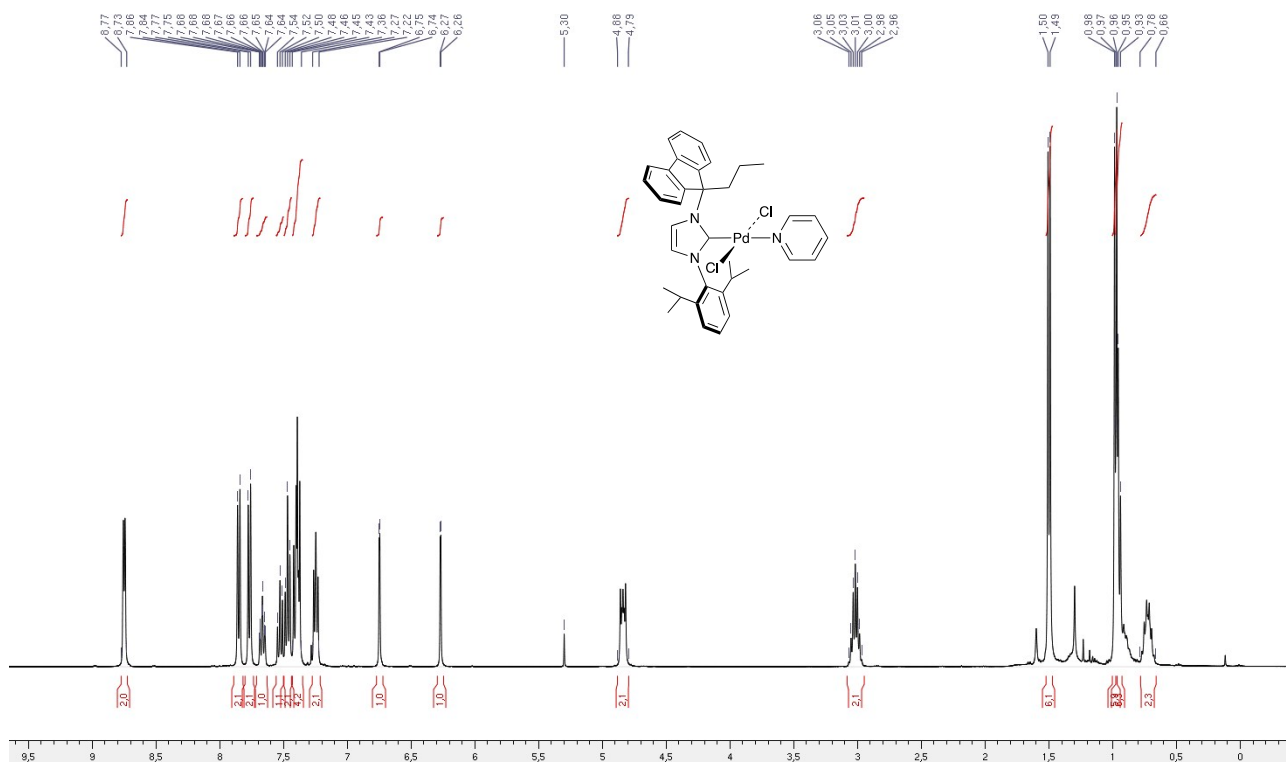
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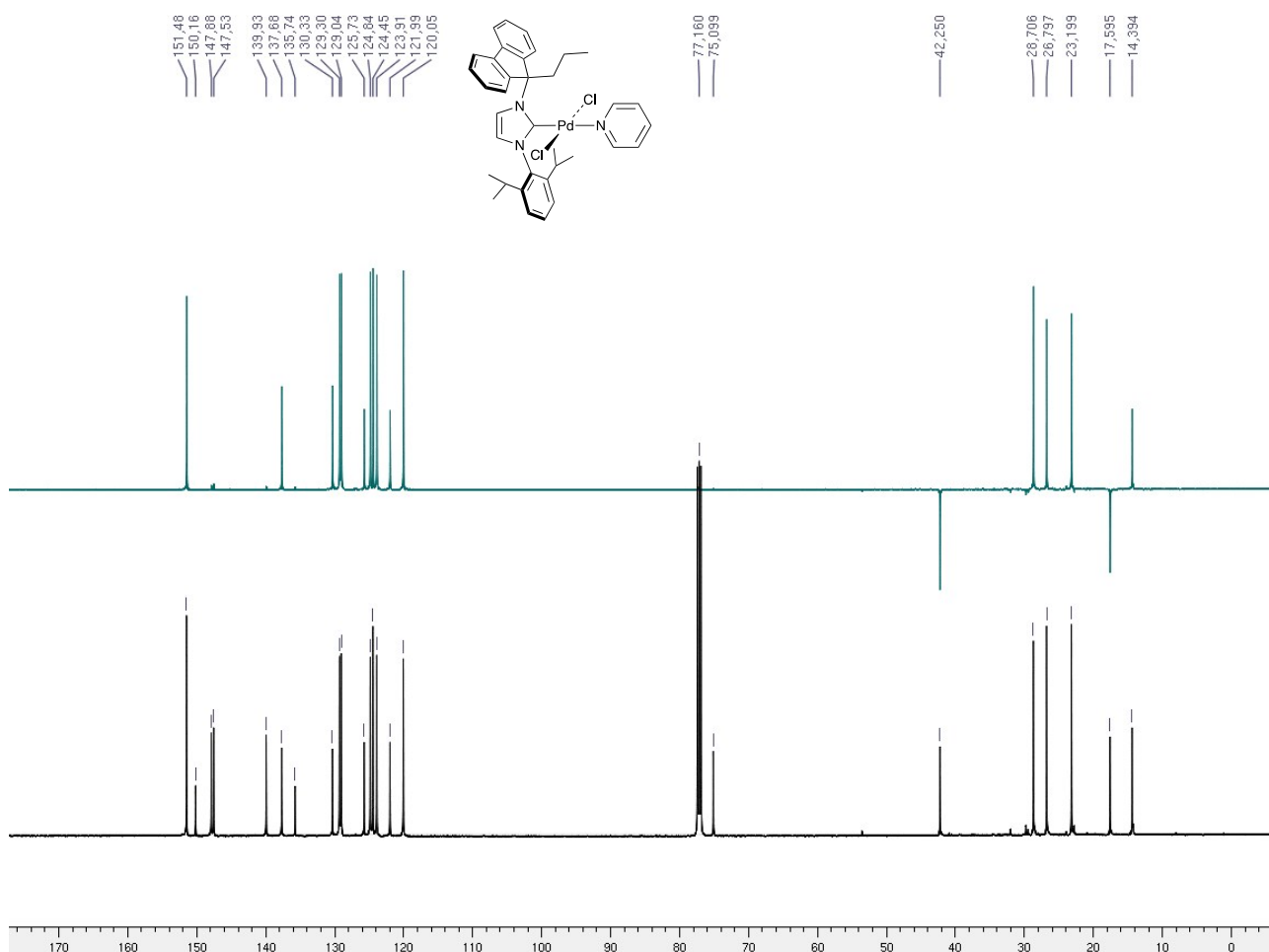
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of complex **5Pr**



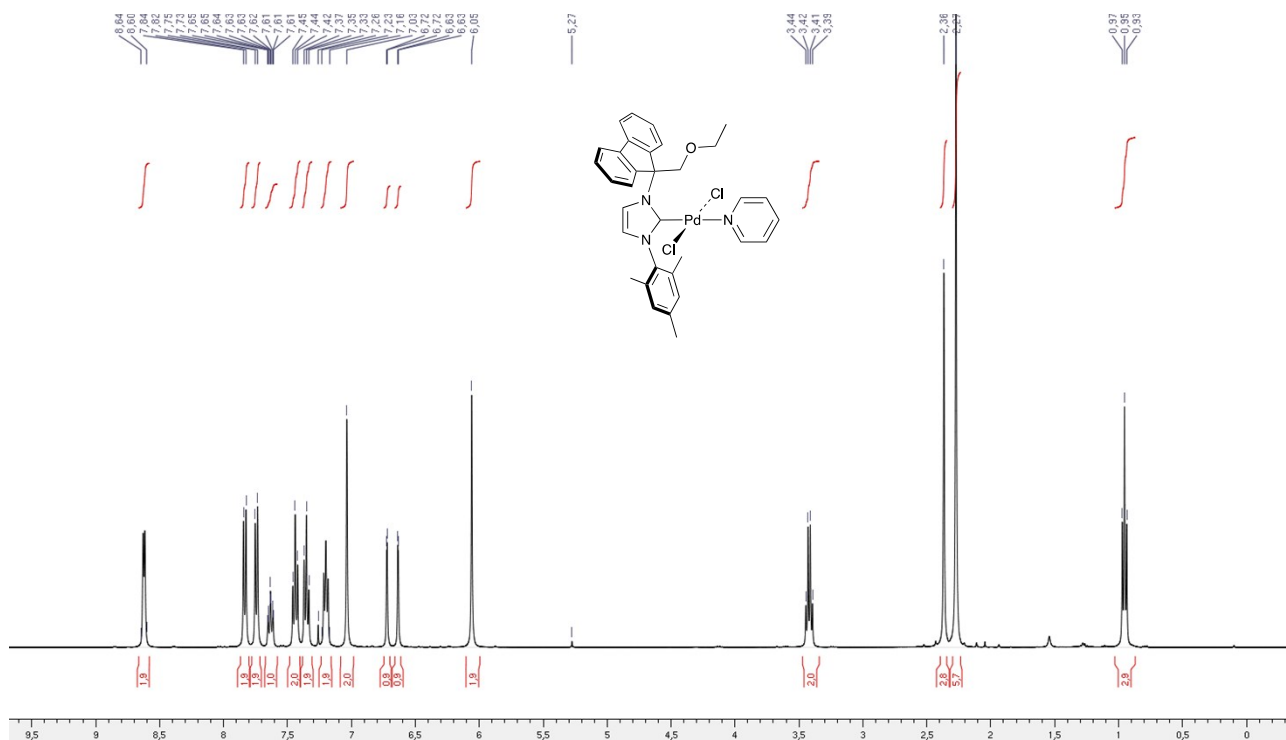
^1H NMR (CDCl_3 , 400 MHz) of complex **6Pr**



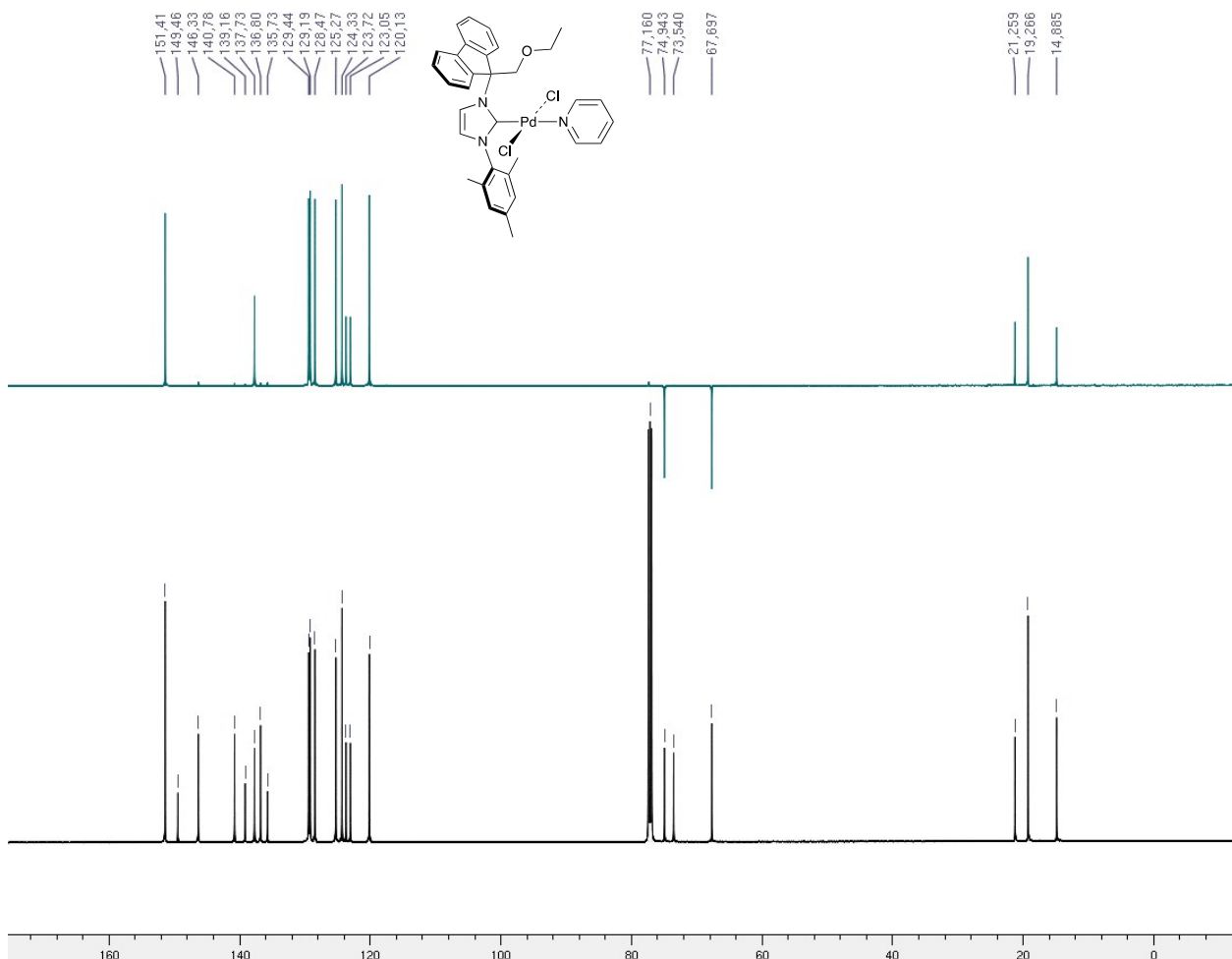
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of complex **6Pr**



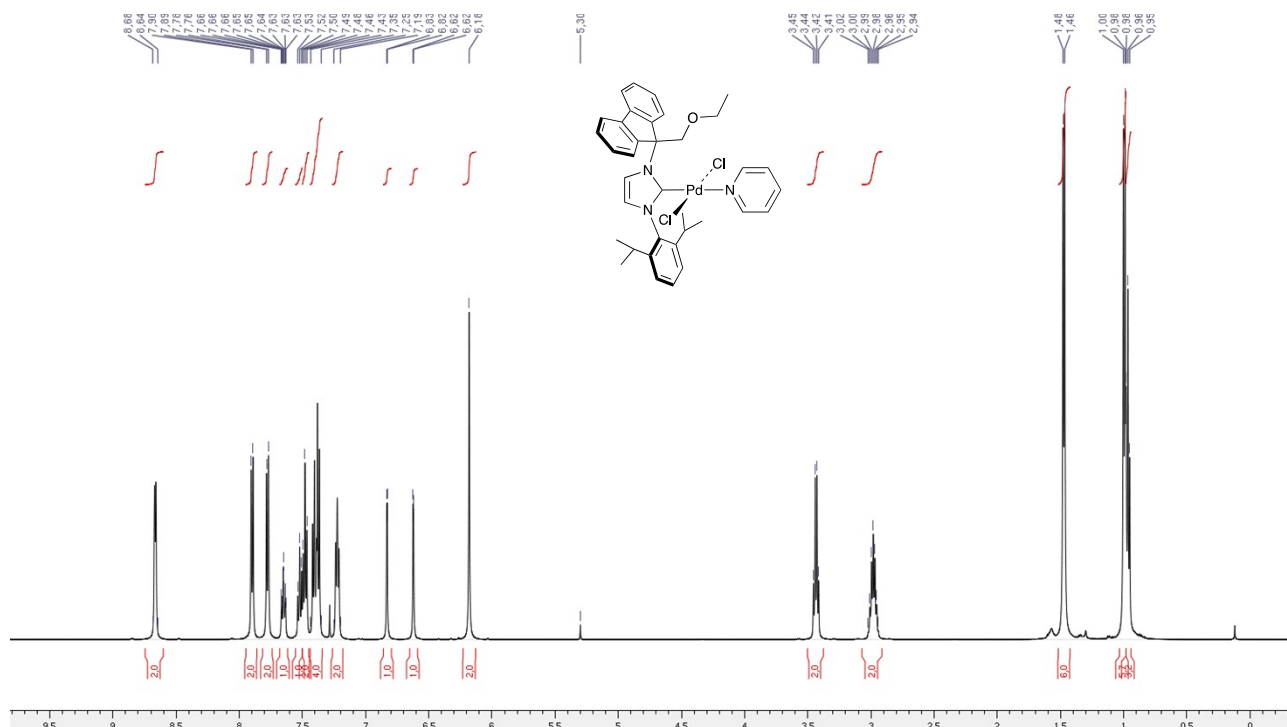
^1H NMR (CDCl_3 , 400 MHz) of complex **5^{EOM}**



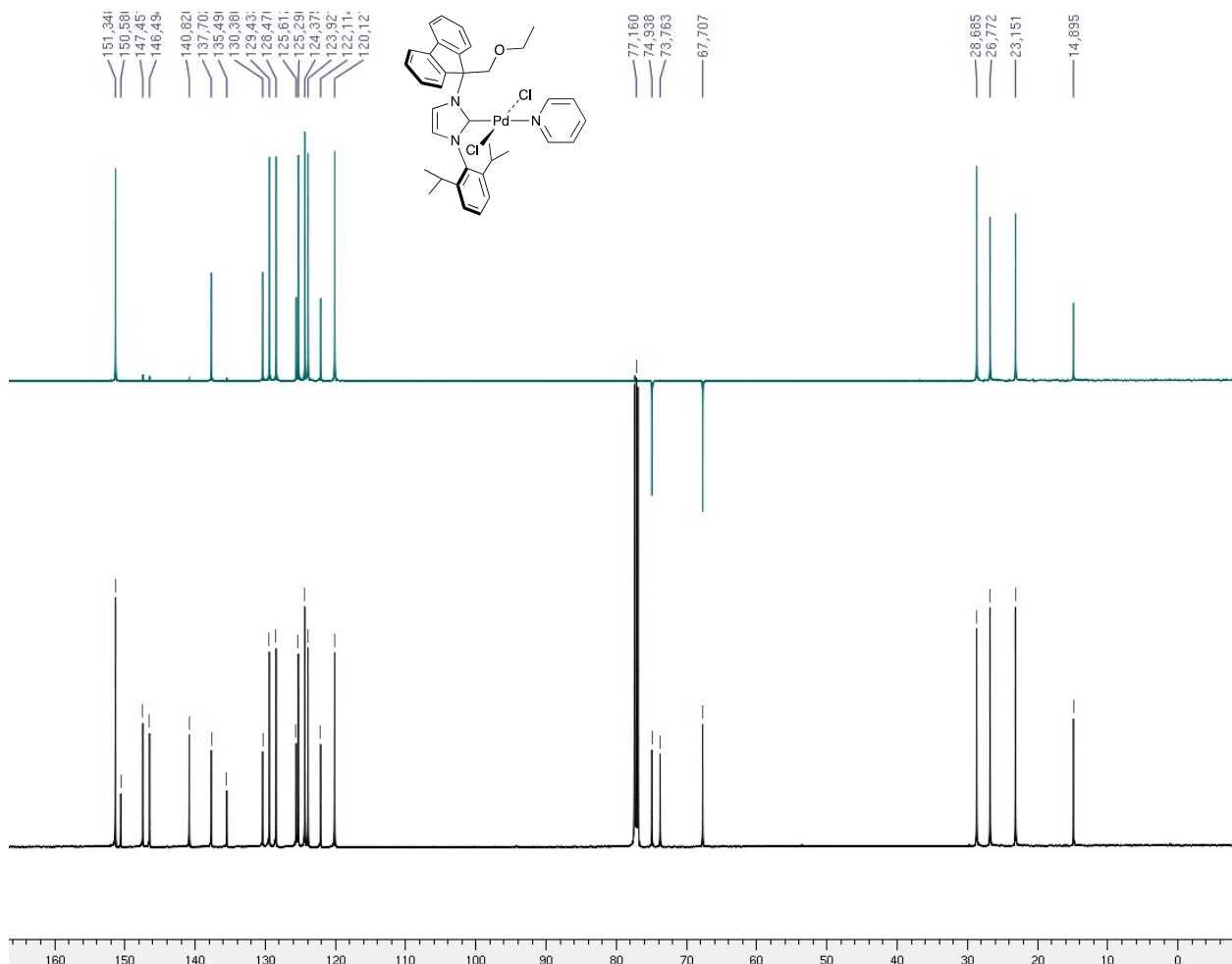
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of complex **5^{EOM}**



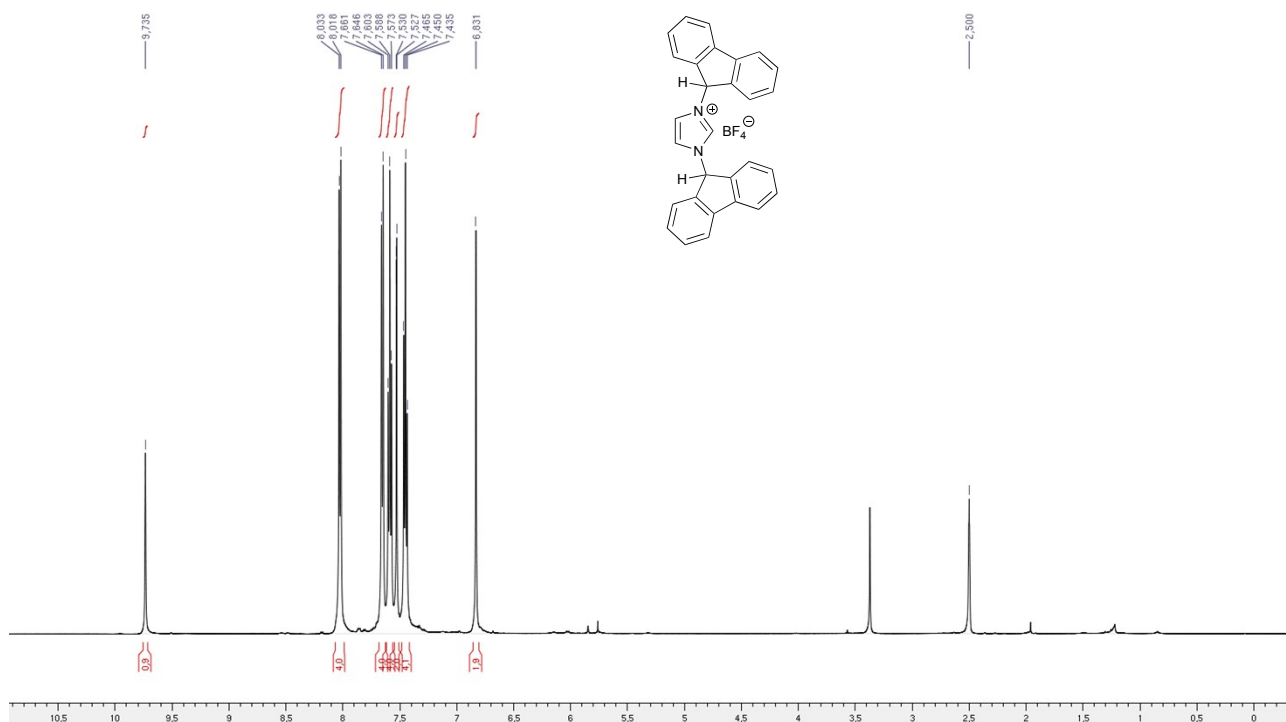
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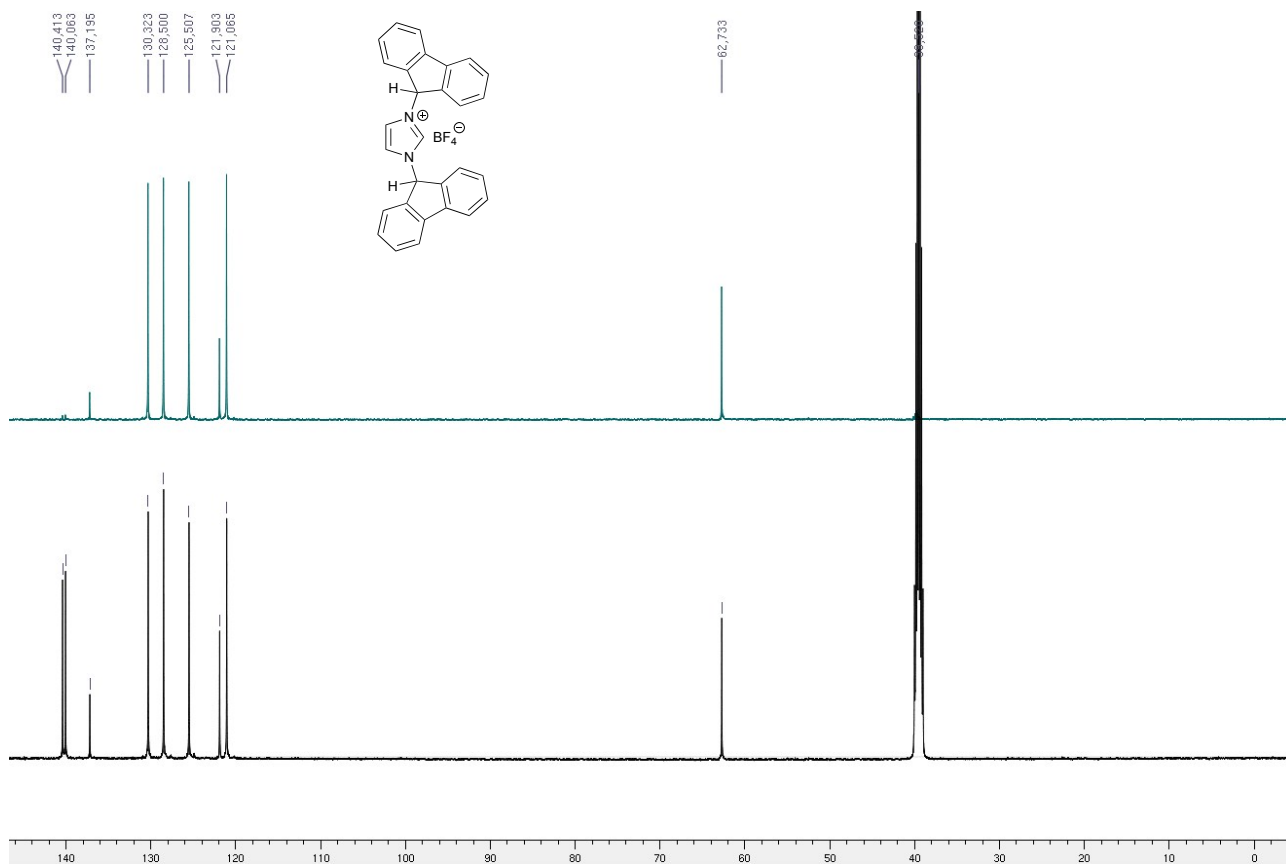
¹³C {¹H} and DEPT NMR (CDCl₃, 125 MHz) of complex **6^{EOM}**



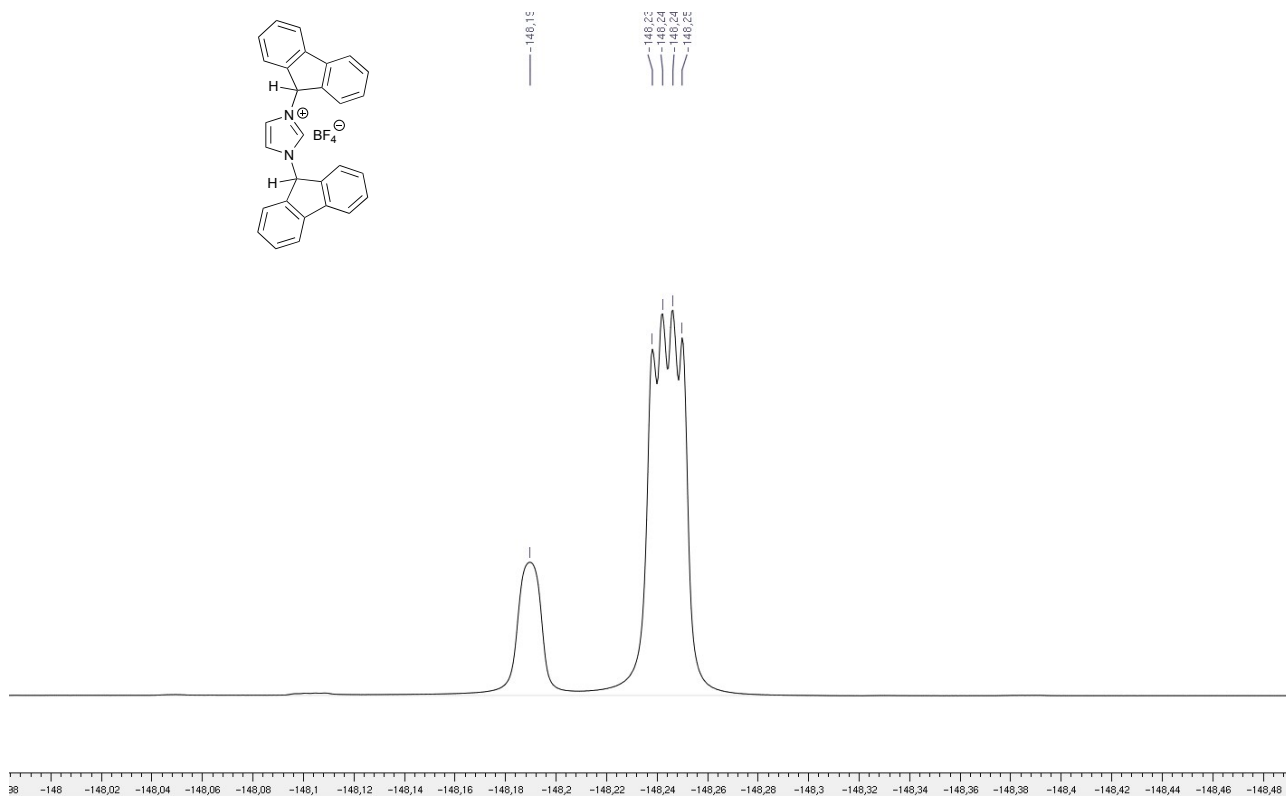
^1H NMR ($[\text{D}_6]$ DMSO, 500 MHz) of imidazolium 7^{H}



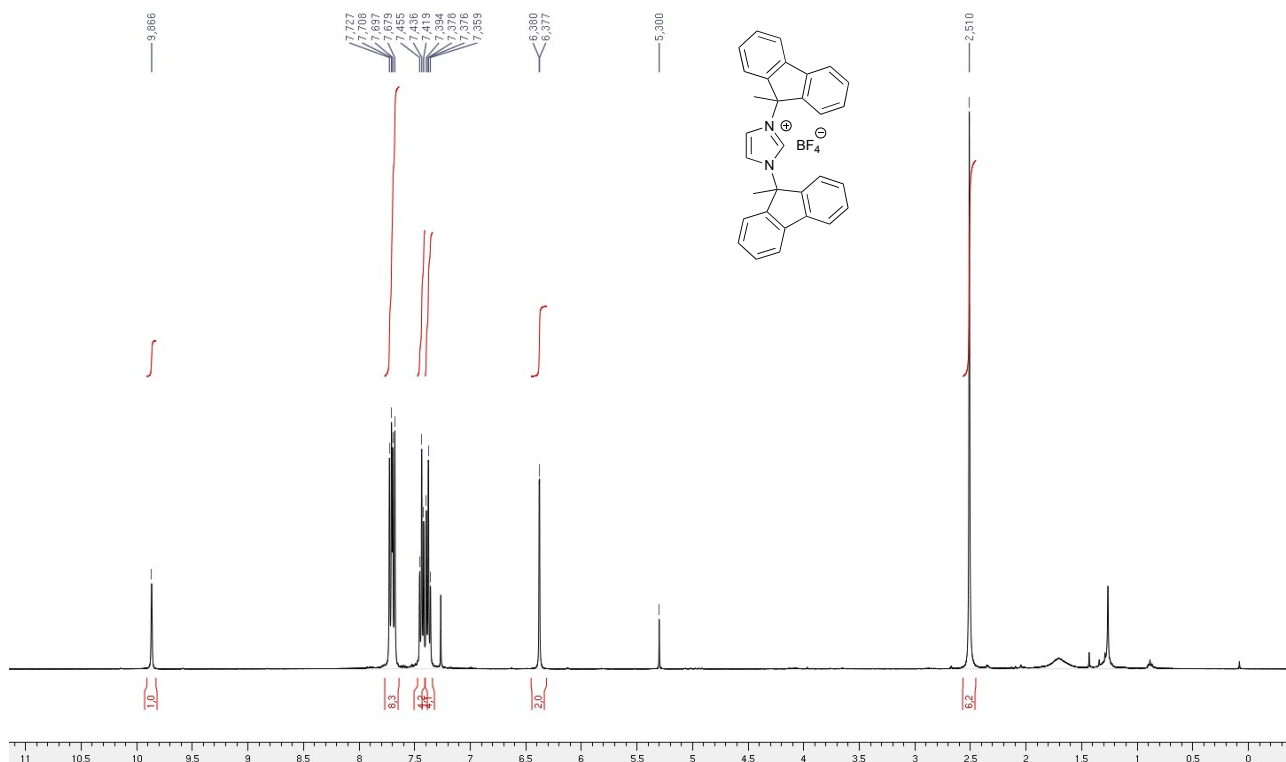
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR ($[\text{D}_6]$ DMSO, 125 MHz) of imidazolium 7^{H}



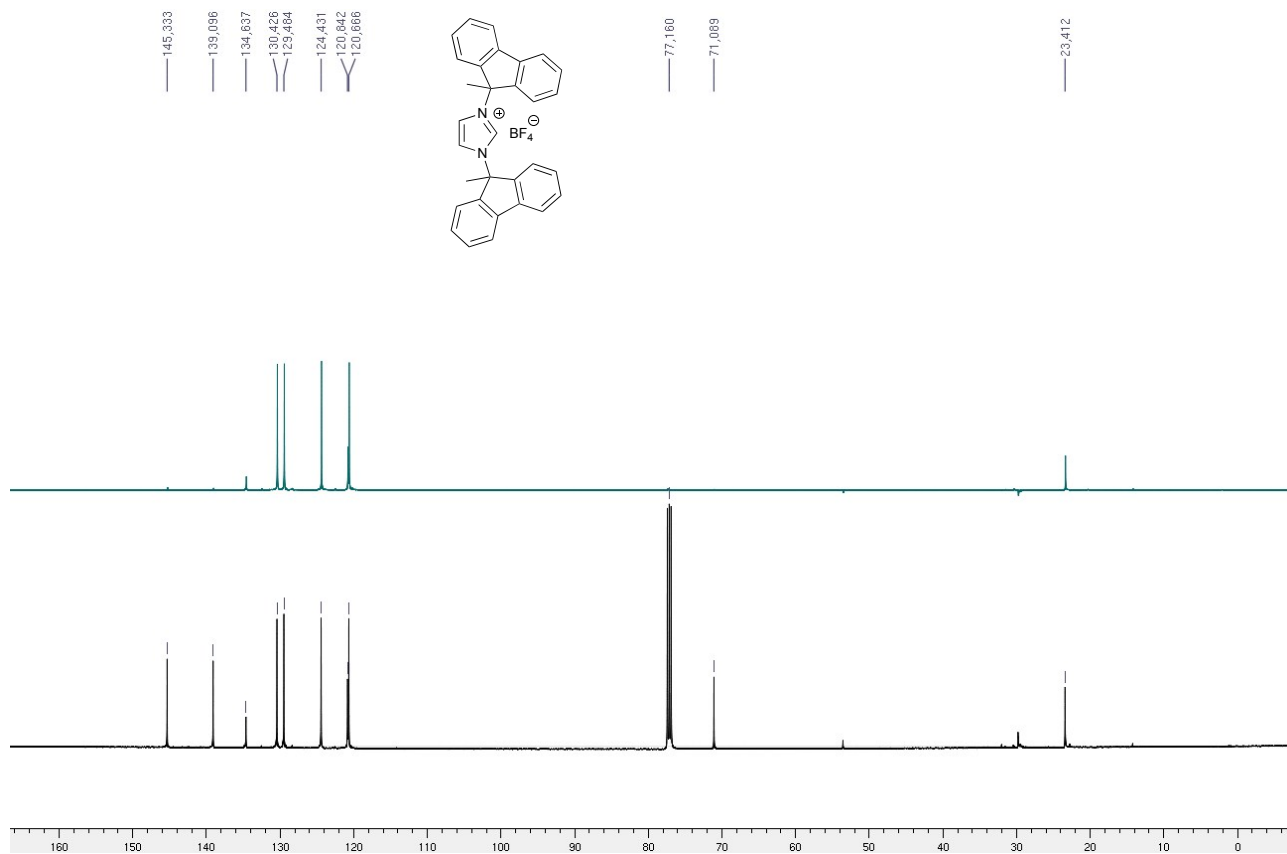
^{19}F NMR ($[\text{D}_6]$ DMSO, 282 MHz) of imidazolium **7^H**



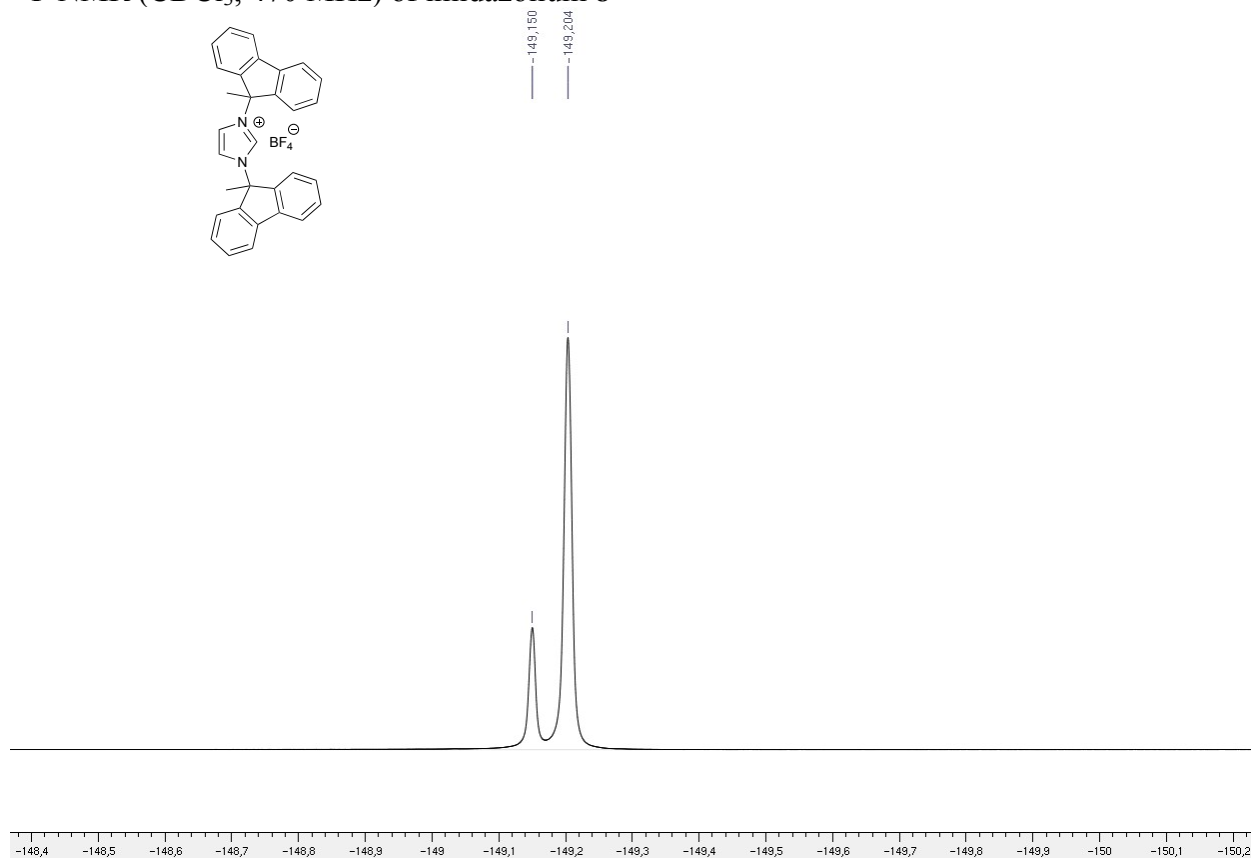
^1H NMR (CDCl_3 , 400 MHz) of imidazolium **8^{Me}**



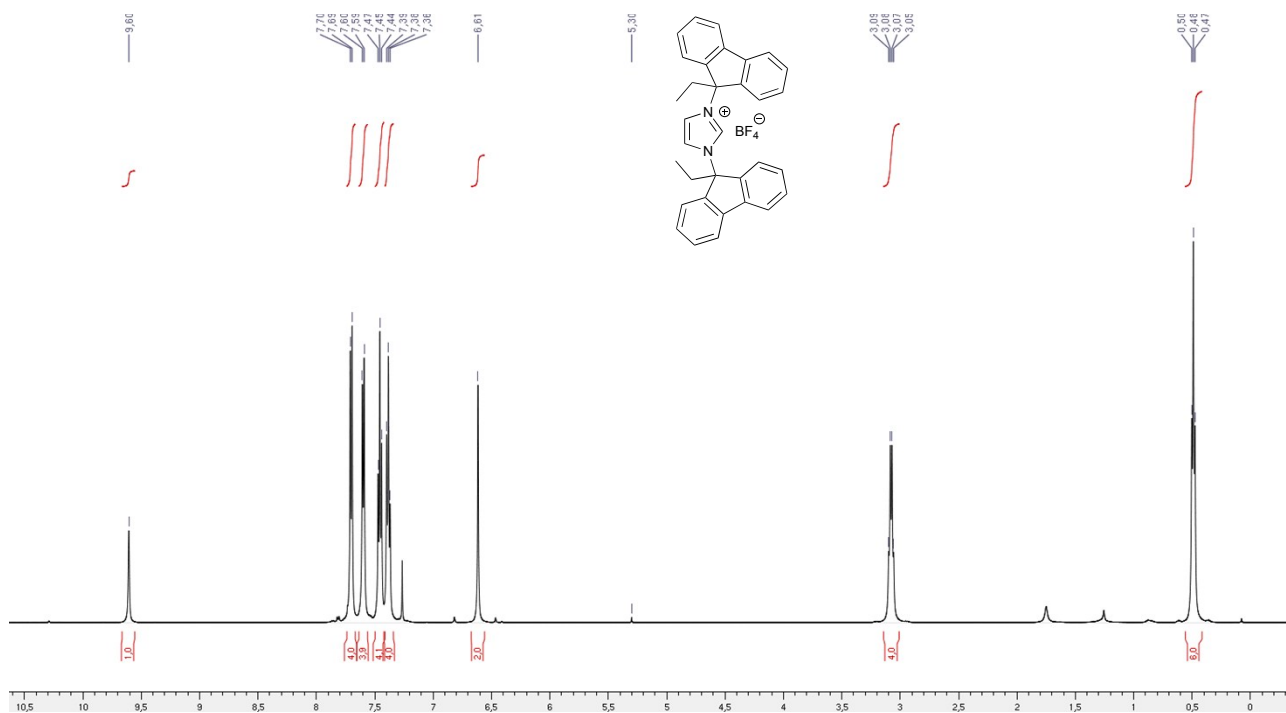
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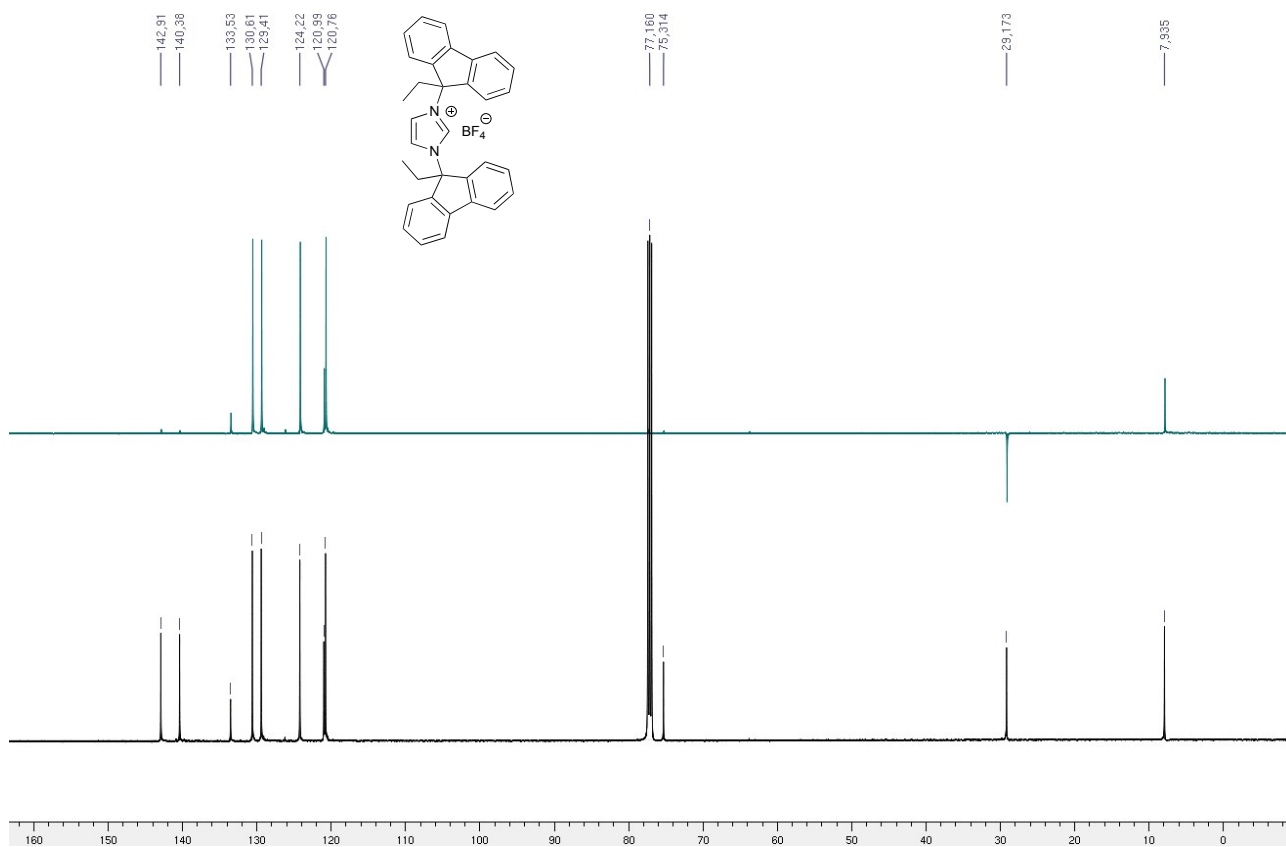
^{19}F NMR (CDCl_3 , 470 MHz) of imidazolium **8**^{Me}



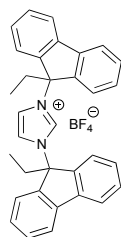
^1H NMR (CDCl_3 , 500 MHz) of imidazolium **8^{Et}**



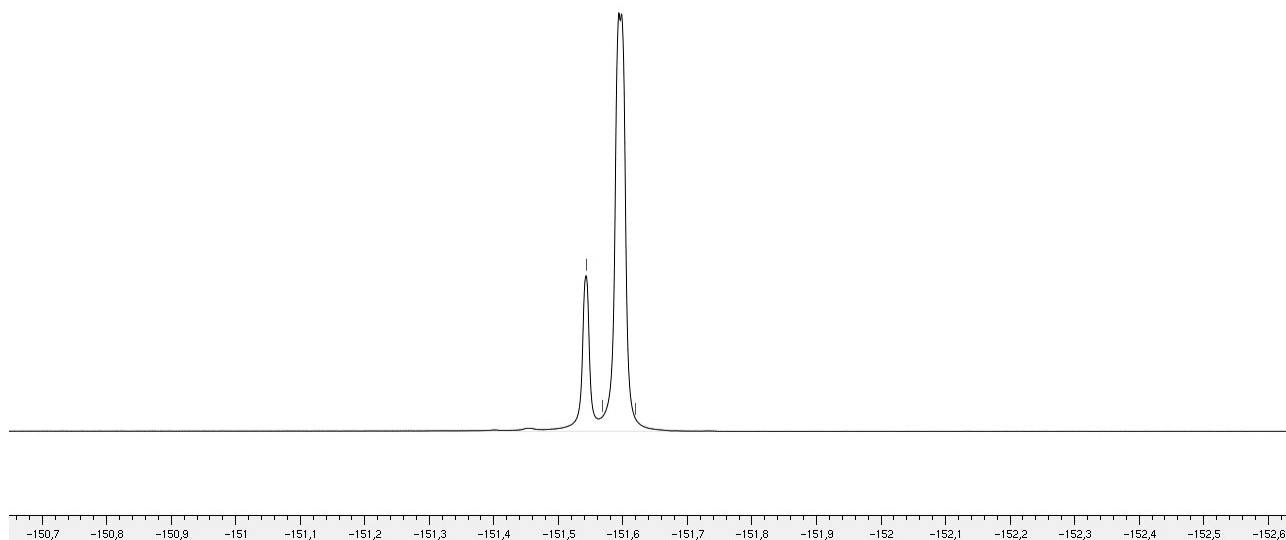
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **8^{Et}**



^{19}F NMR (CDCl_3 , 282 MHz) of imidazolium **8^{Et}**



— -151,543
— -151,568
— -151,620



^1H NMR (CDCl_3 , 500 MHz) of imidazolium **8^{Pr}**

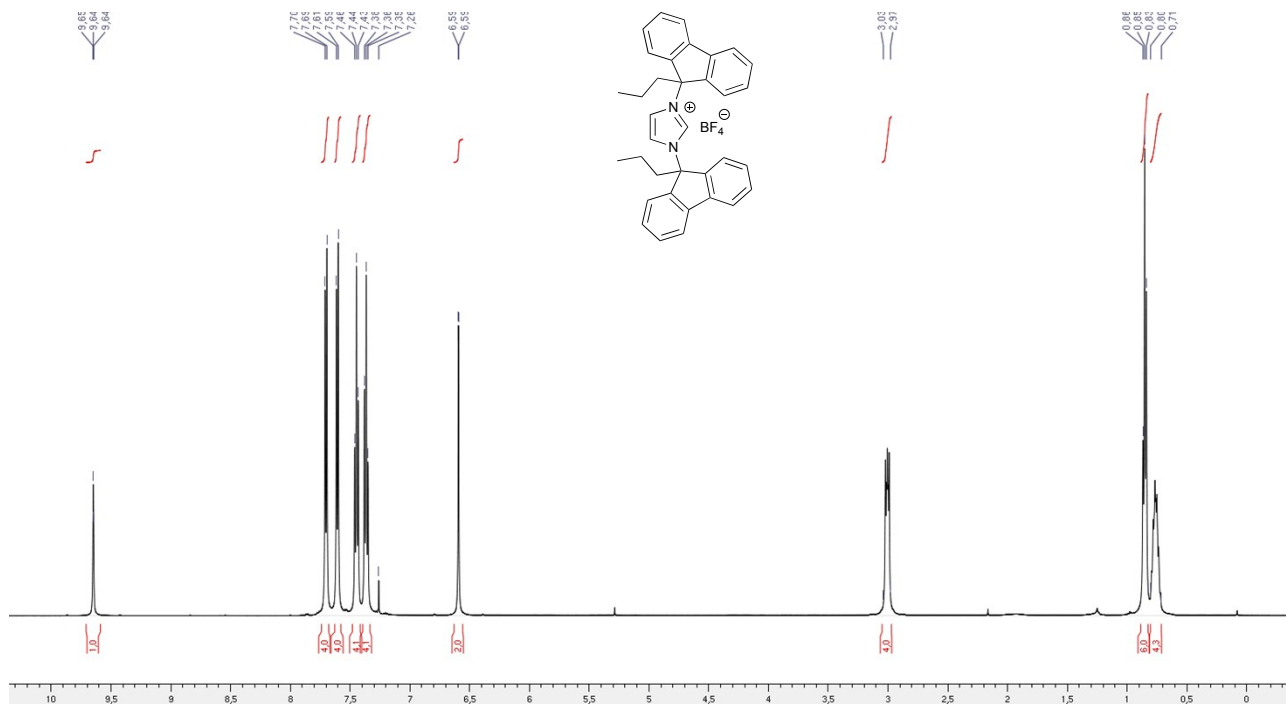
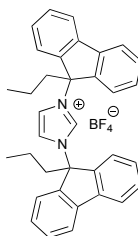
9.85
9.84
9.84

7.76
7.65
7.65
7.58
7.48
7.44
7.38
7.38
7.21
7.21

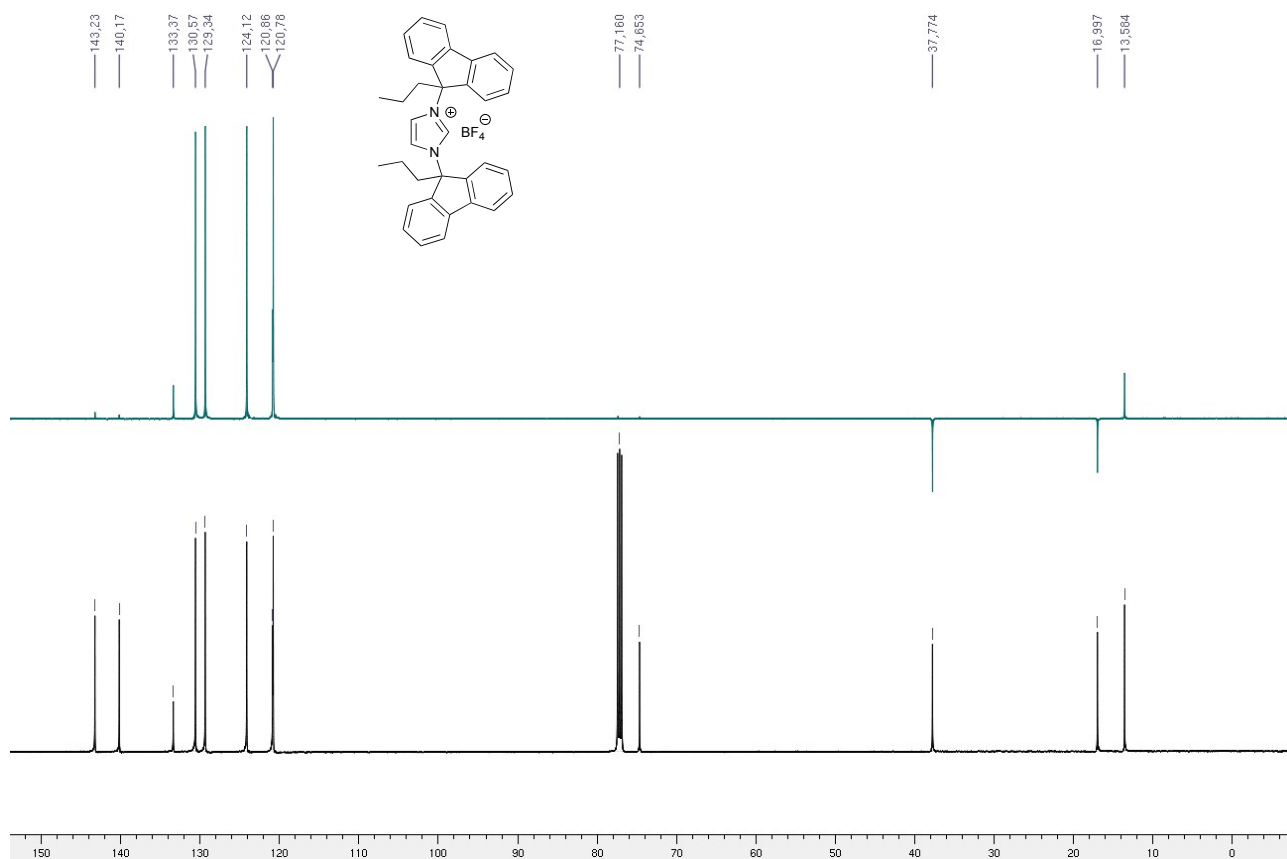
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6.58

3.02
2.97

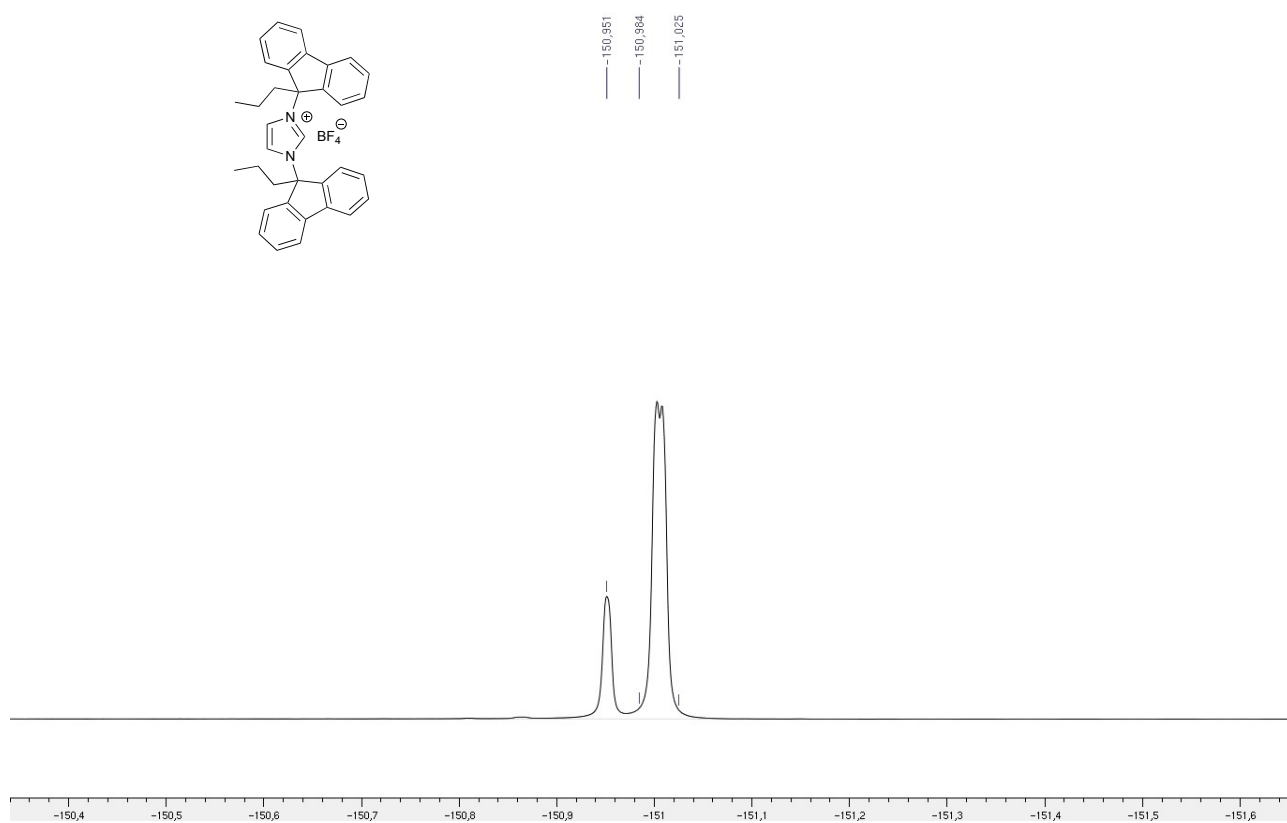
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0.85
0.82
0.71
0.71



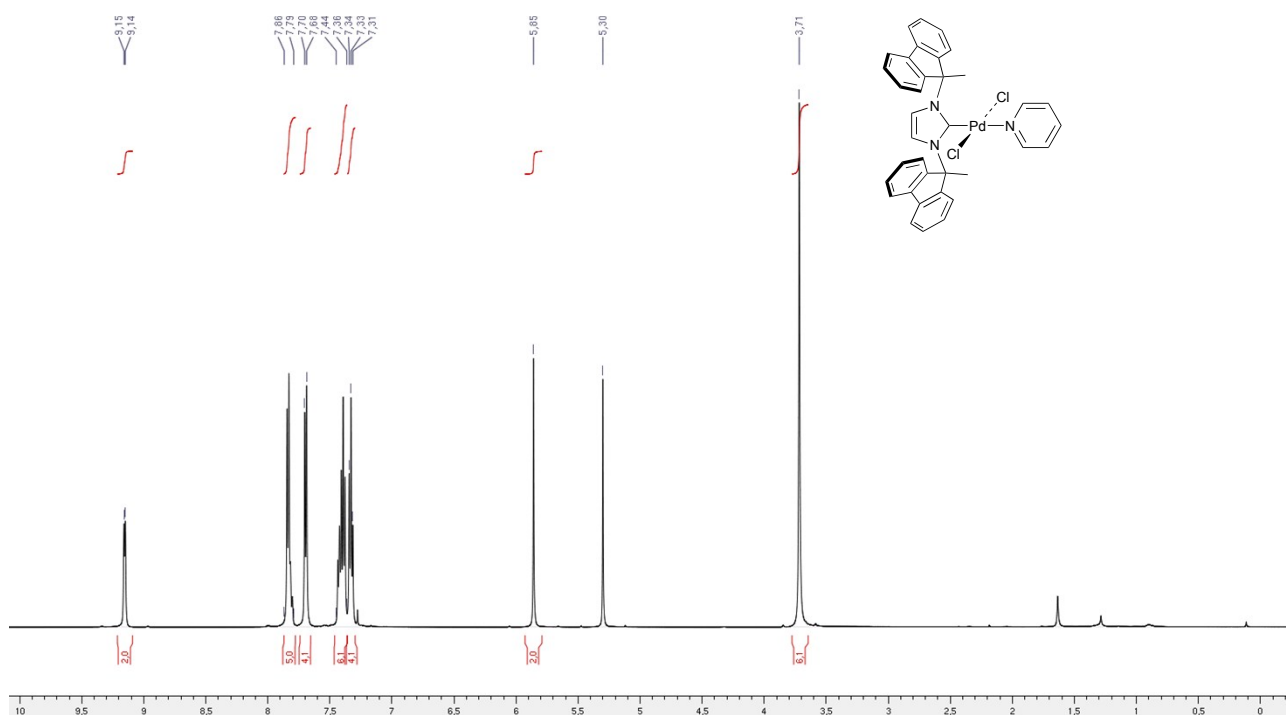
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of imidazolium **8Pr**



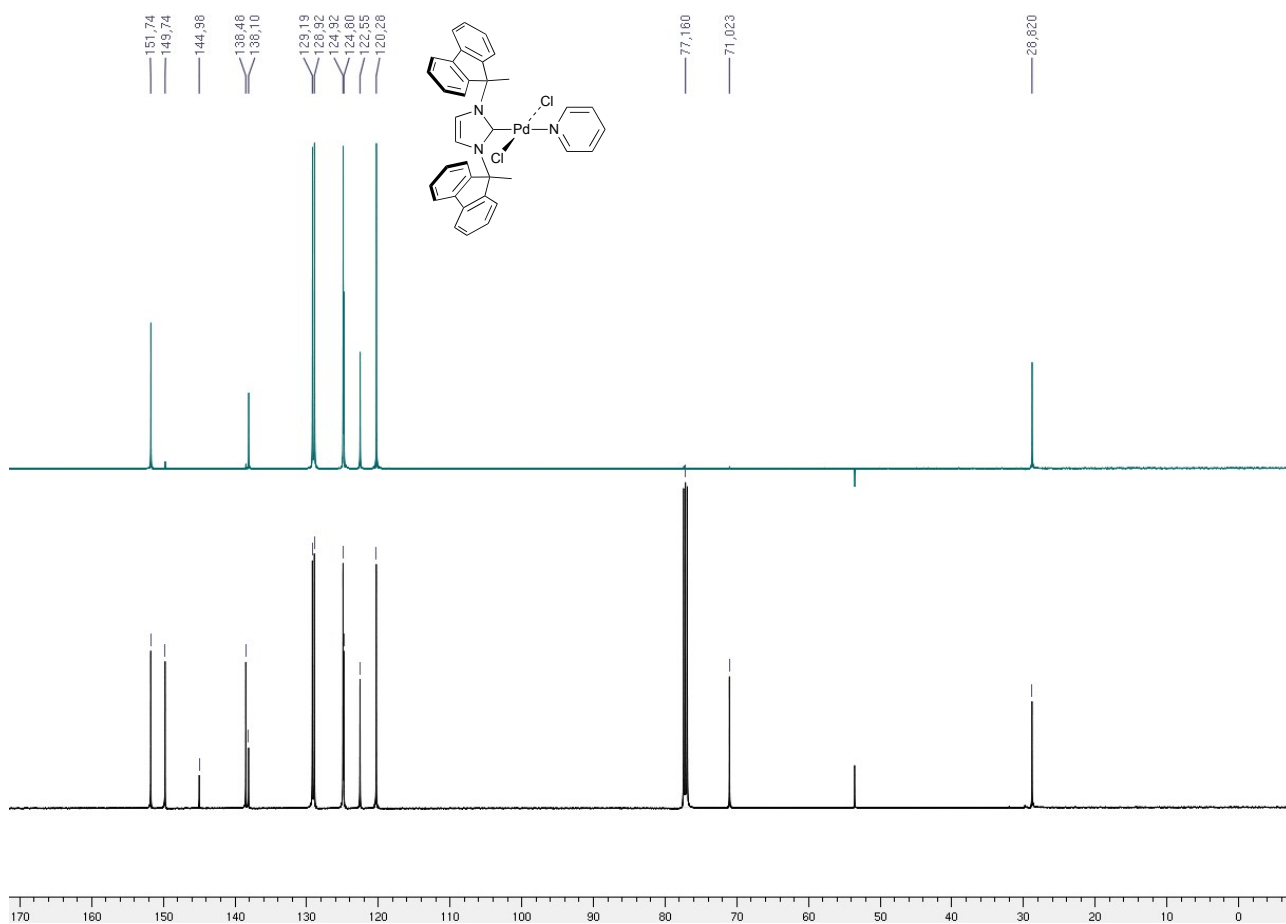
^{19}F NMR (CDCl_3 , 282 MHz) of imidazolium **8Pr**



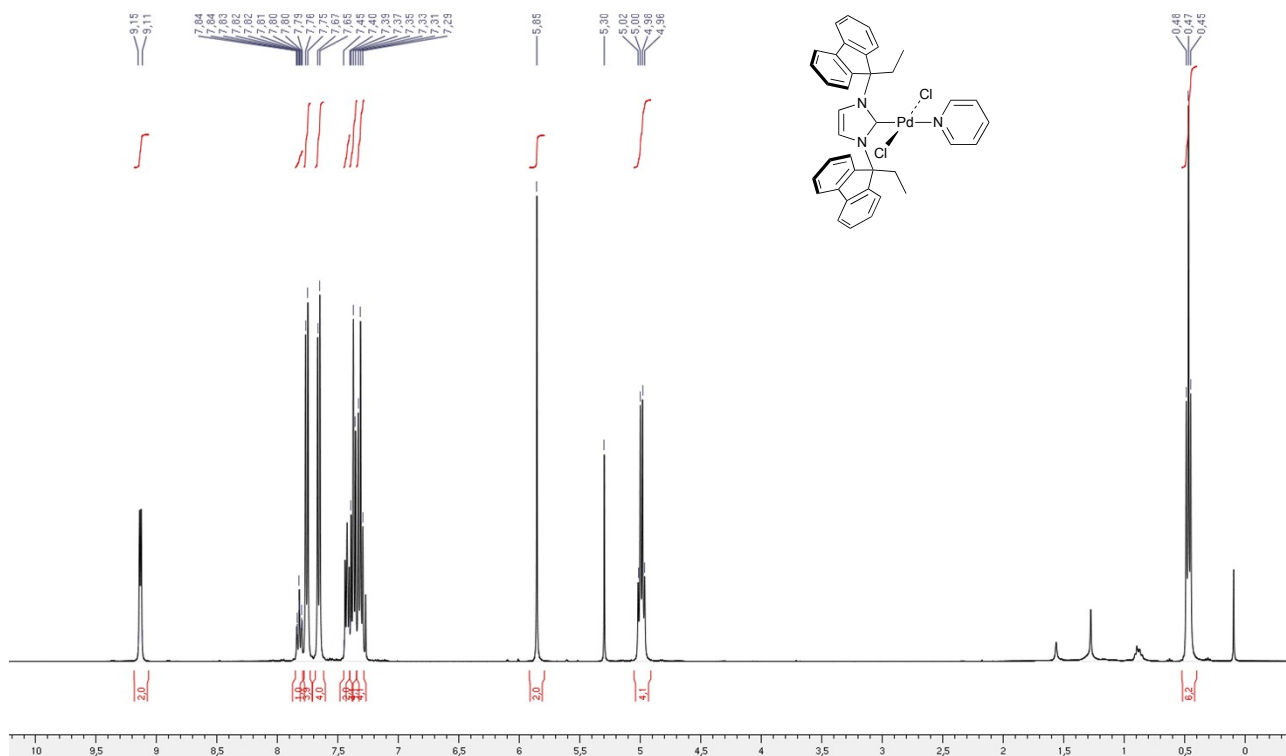
^1H NMR (CDCl_3 , 500 MHz) of complex **9Me**



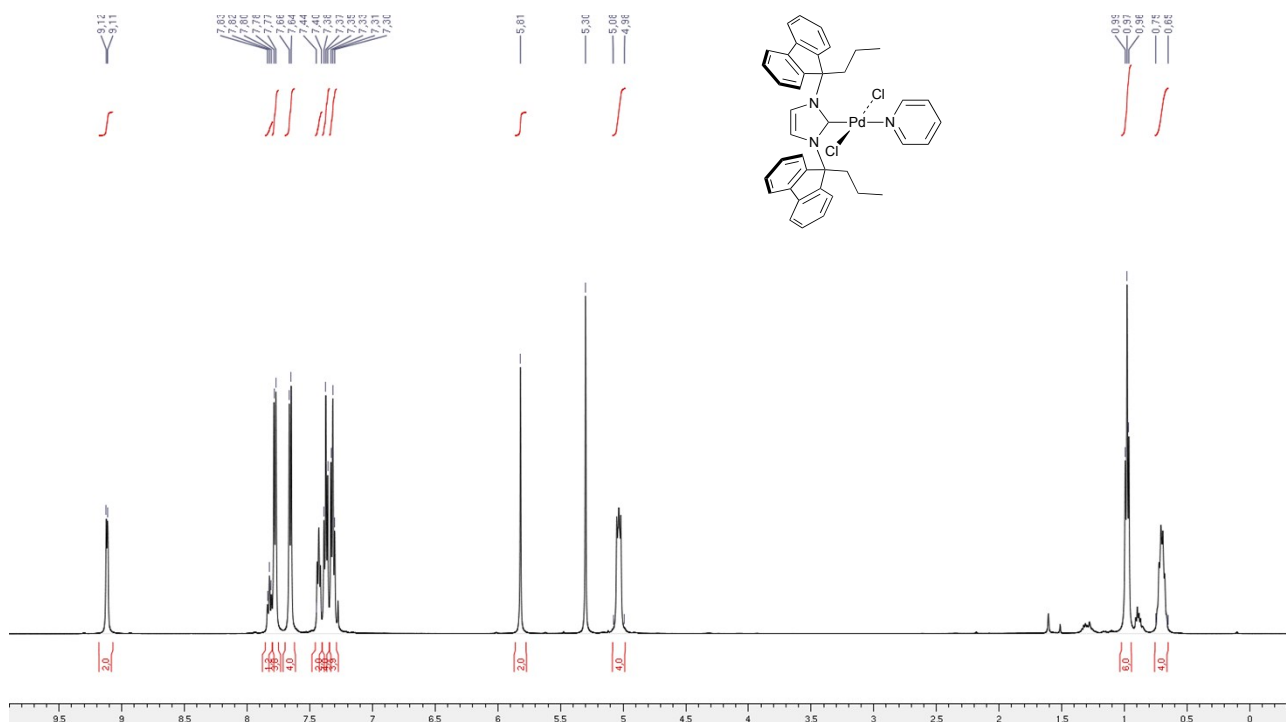
$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of complex **9Me**



^1H NMR (CDCl_3 , 400 MHz) of complex **9Et**



^1H NMR (CDCl_3 , 500 MHz) of complex **9Pr**



$^{13}\text{C}\{^1\text{H}\}$ and DEPT NMR (CDCl_3 , 125 MHz) of complex **9Pr**

