

Supporting Information

Visible-light Induced di- and trifluoromethylation of *N*-methacryloyl benzamides with fluorinated sulfones for the synthesis of CF₂H/CF₃-containing isoquinolinediones

Guanglong Zou^{a*}, Xuelin Wang^b

a. School of Chemical Engineering, Guizhou Minzu University, Huaxi University
Town, Guiyang 550025, China

E-mail: chemphys@126.com

b. School of Graduate Students, Guizhou Minzu University, Ten-li Strand Campus,
Guiyang 550025, China.

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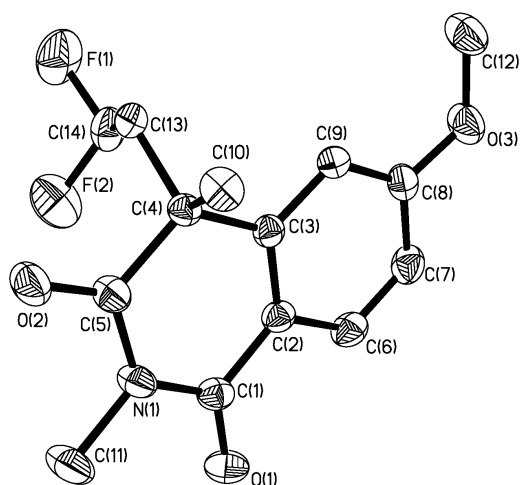


Figure 1 The ORTEP drawing of **3c** (Thermal ellipsoids are set at 30% probability level)

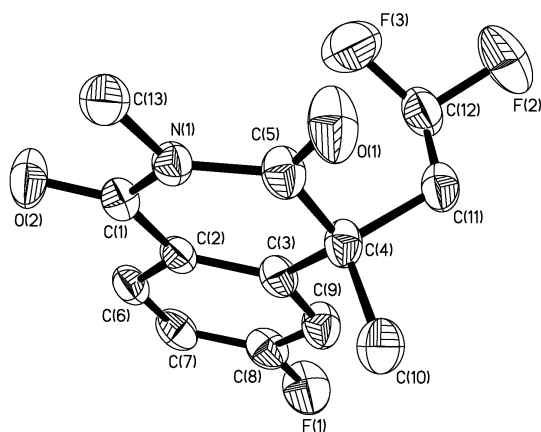
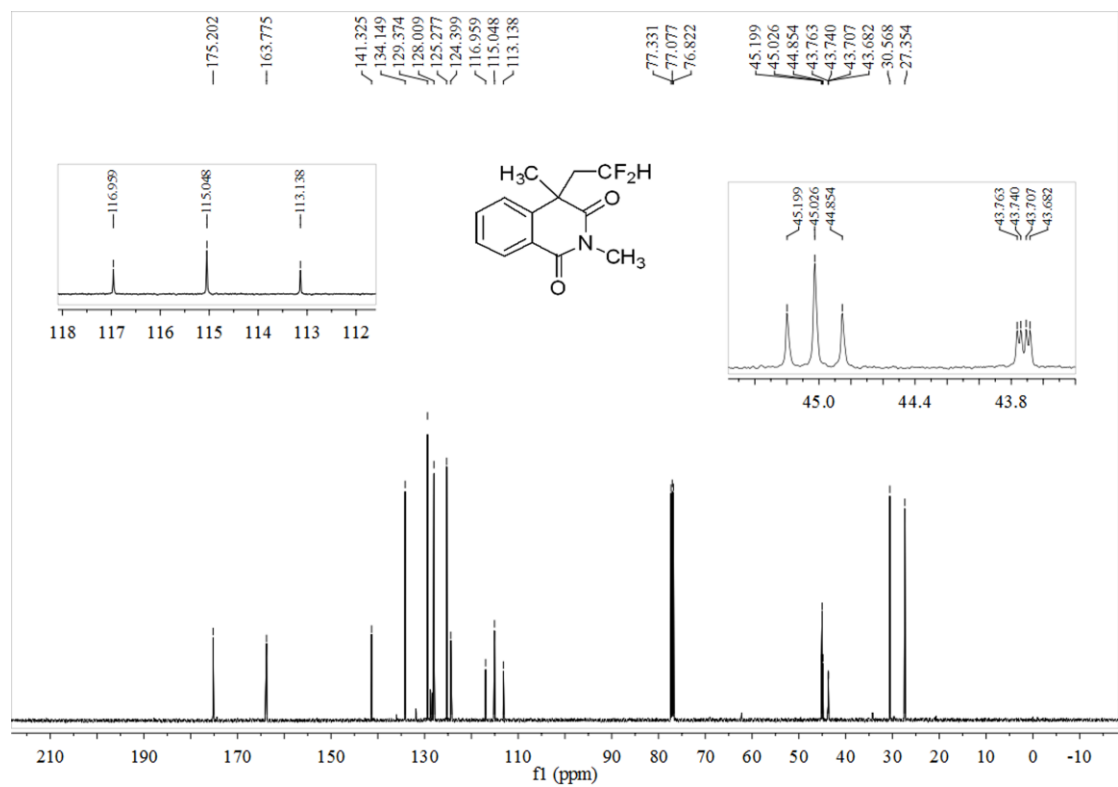
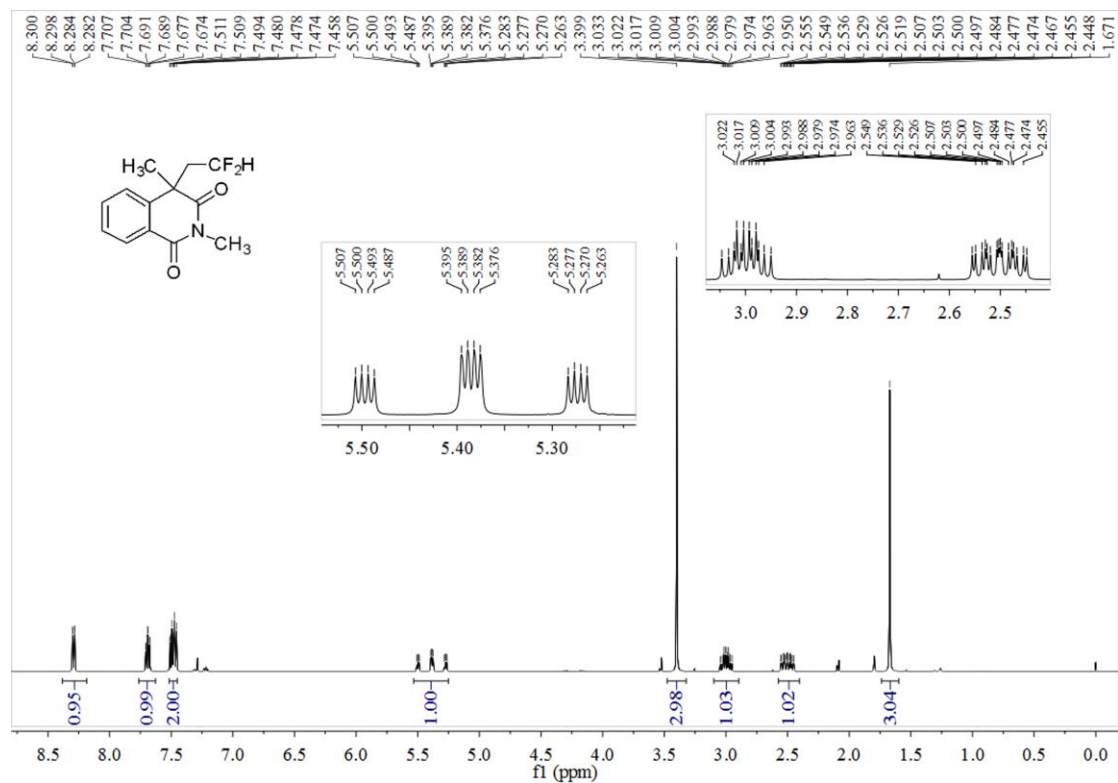
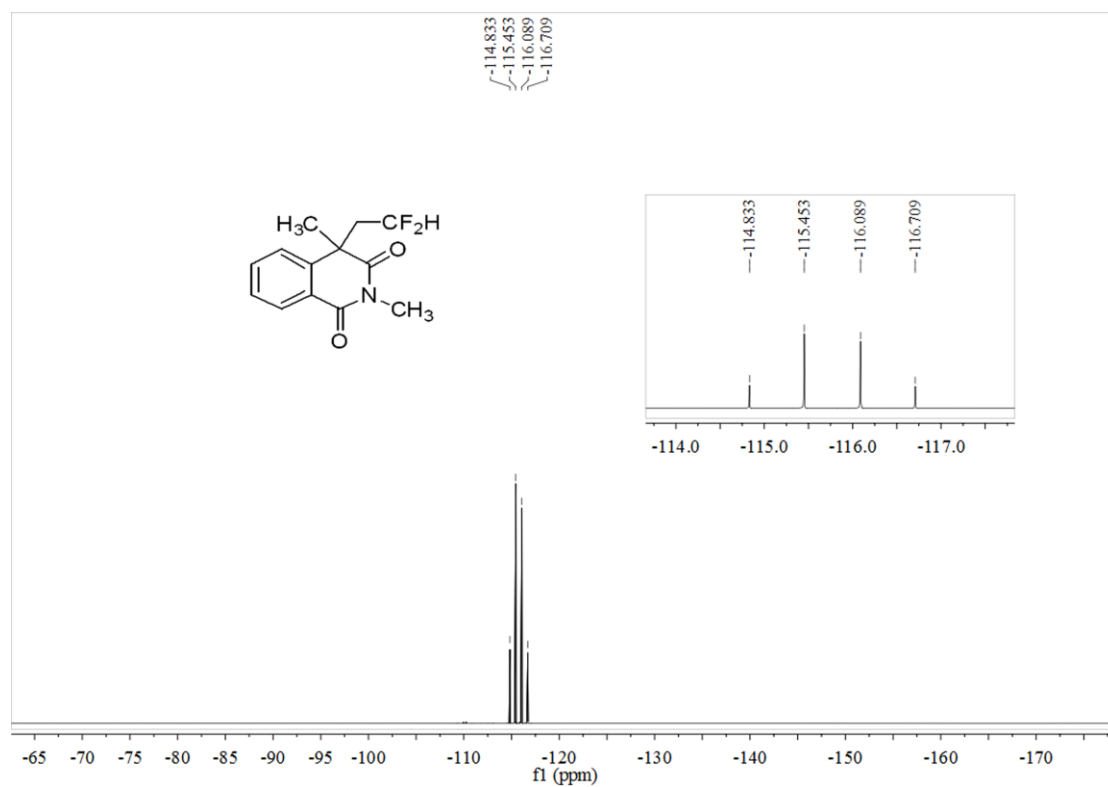


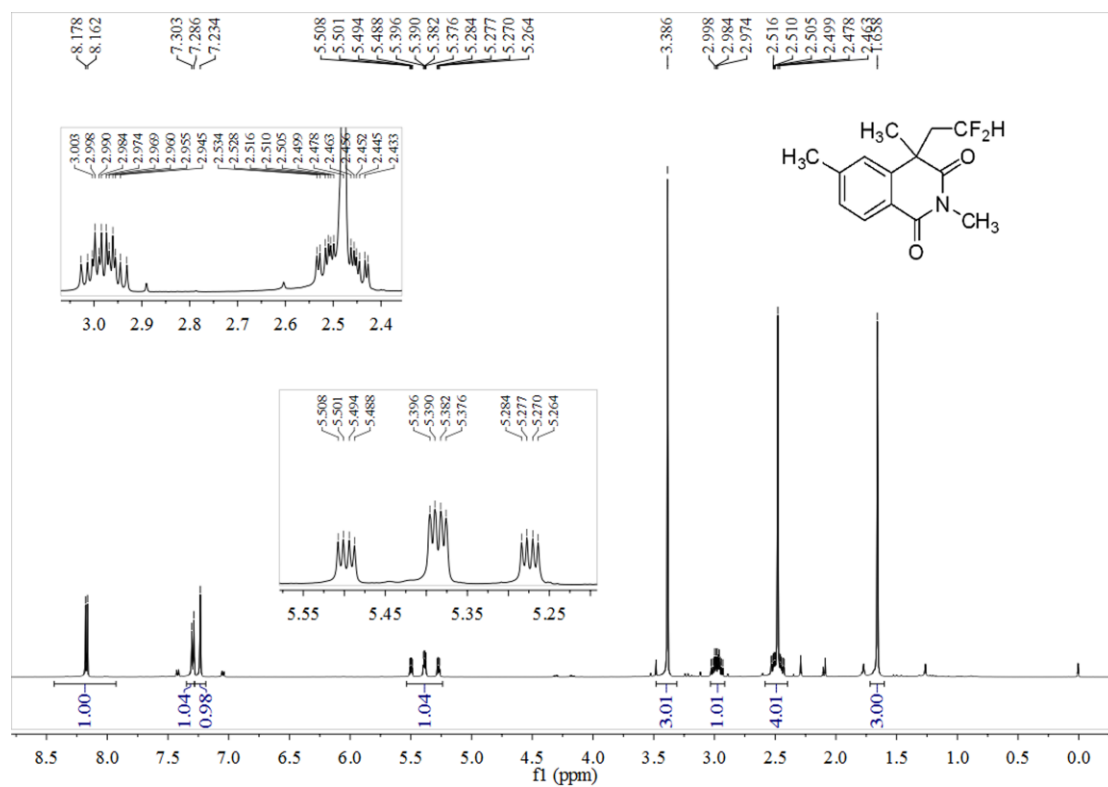
Figure 2 The ORTEP drawing of **3d** (Thermal ellipsoids are set at 30% probability level)

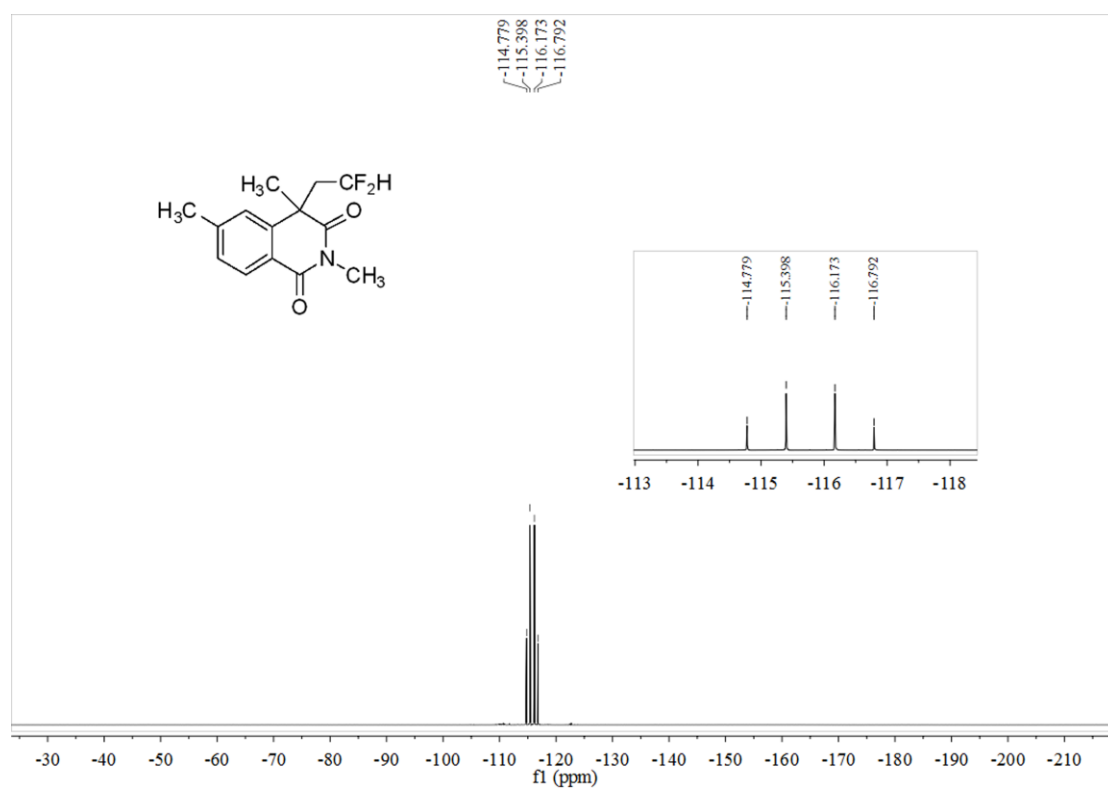
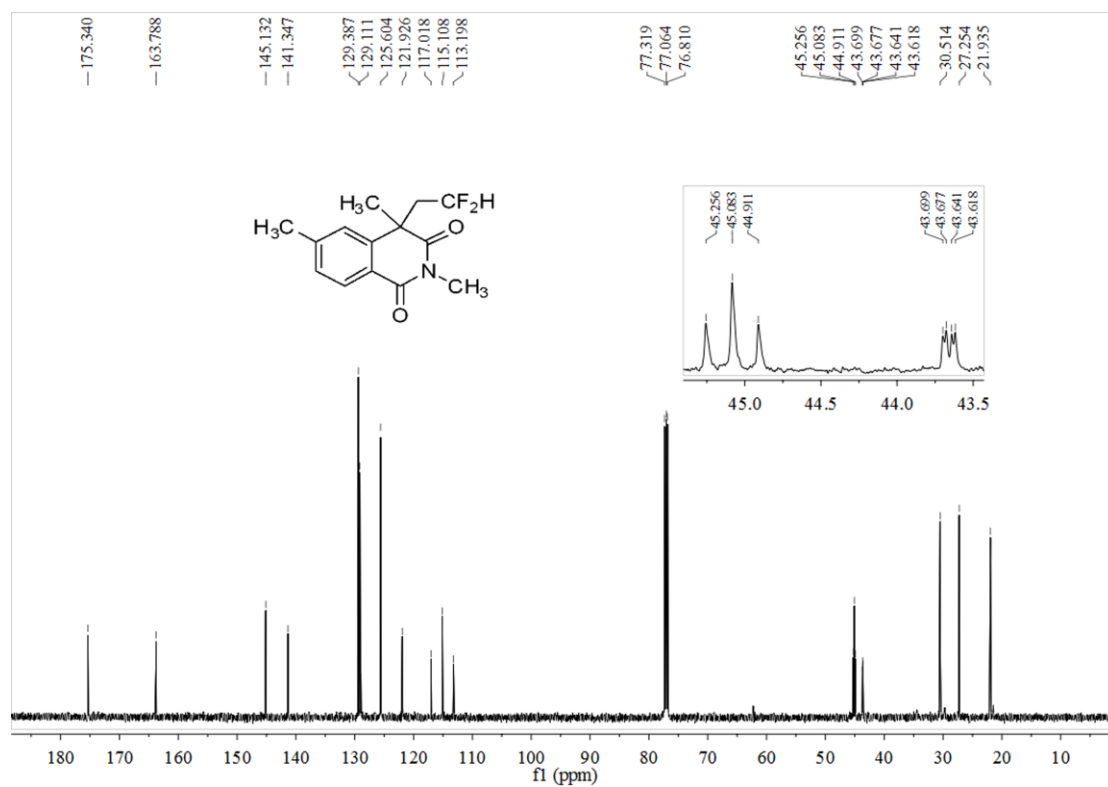
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **3a**:



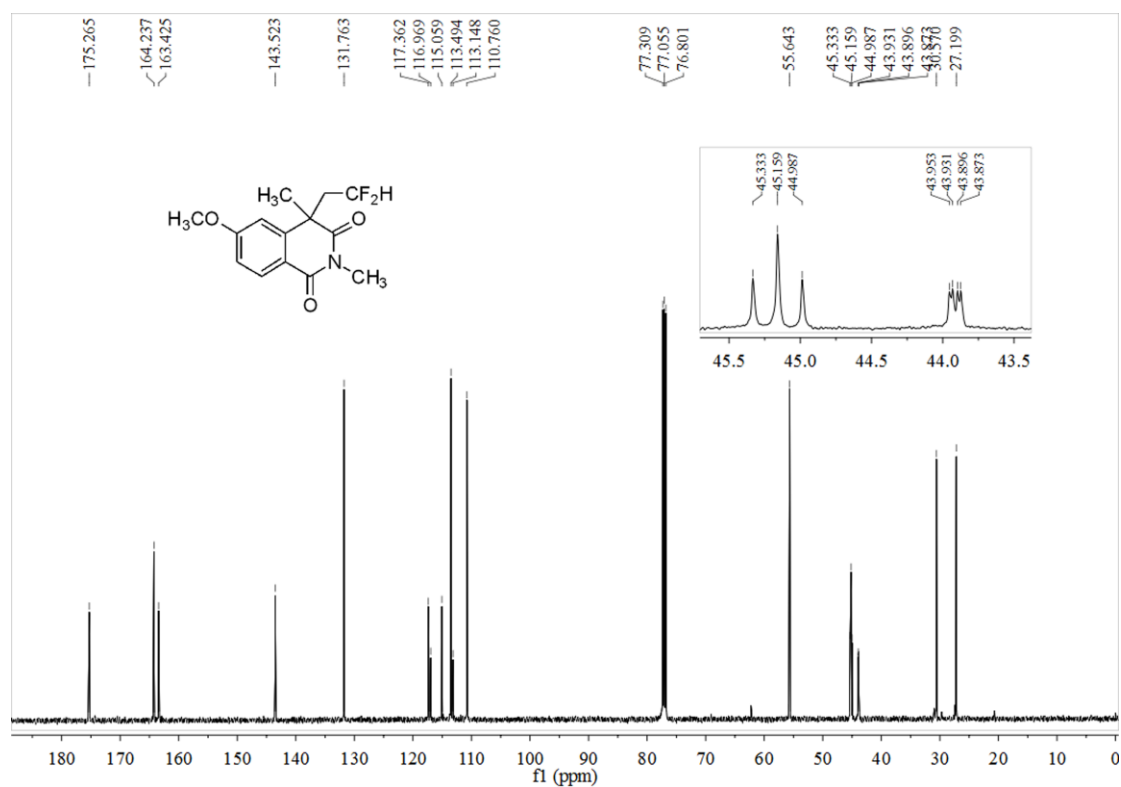
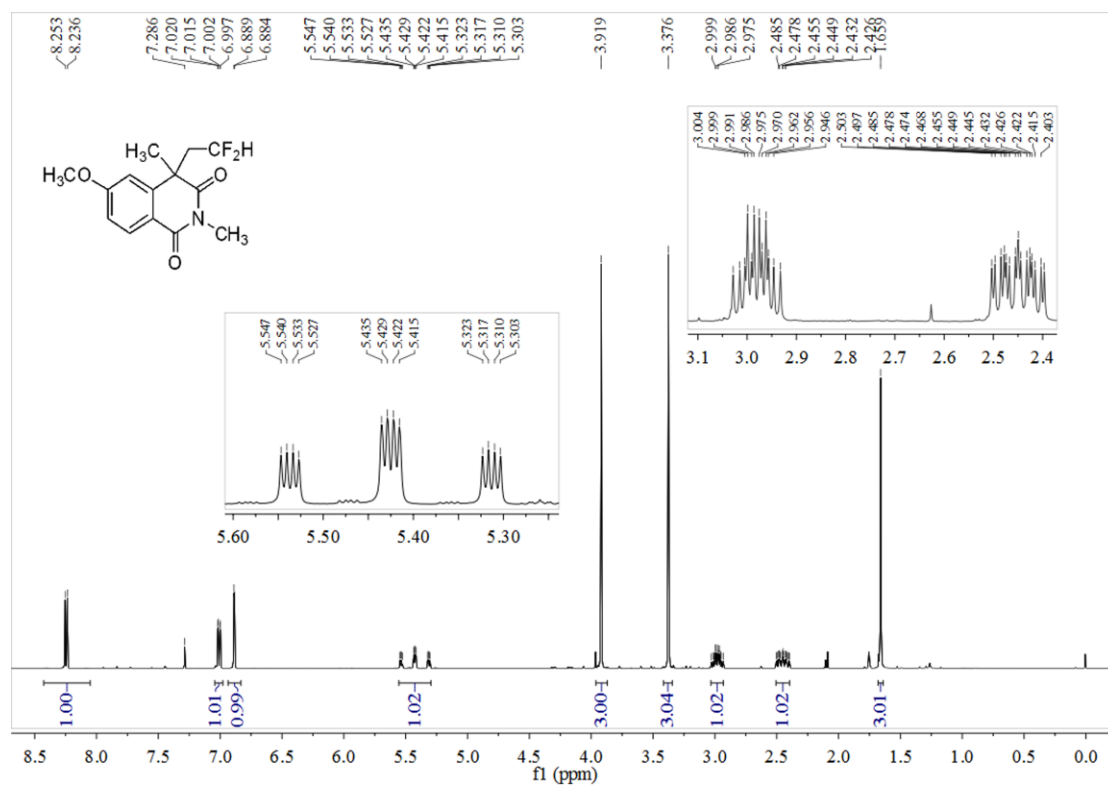


¹H NMR, ¹³C NMR and ¹⁹F NMR spectra of compound **3b**:

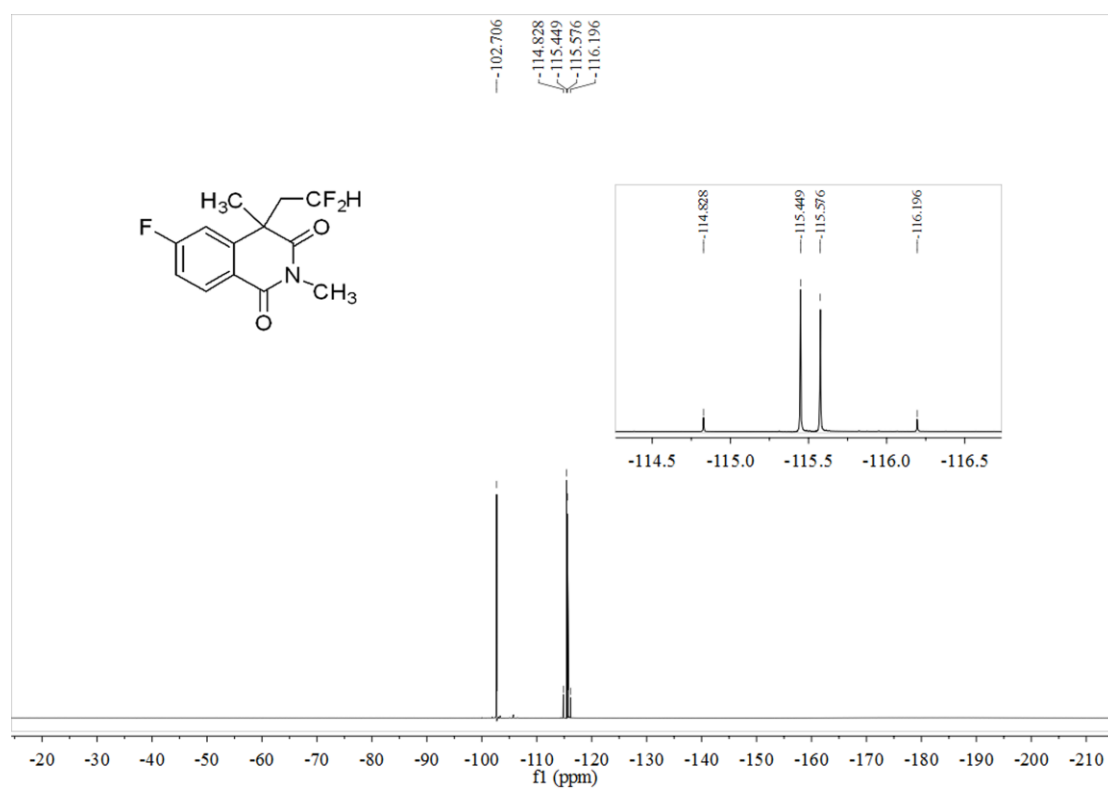
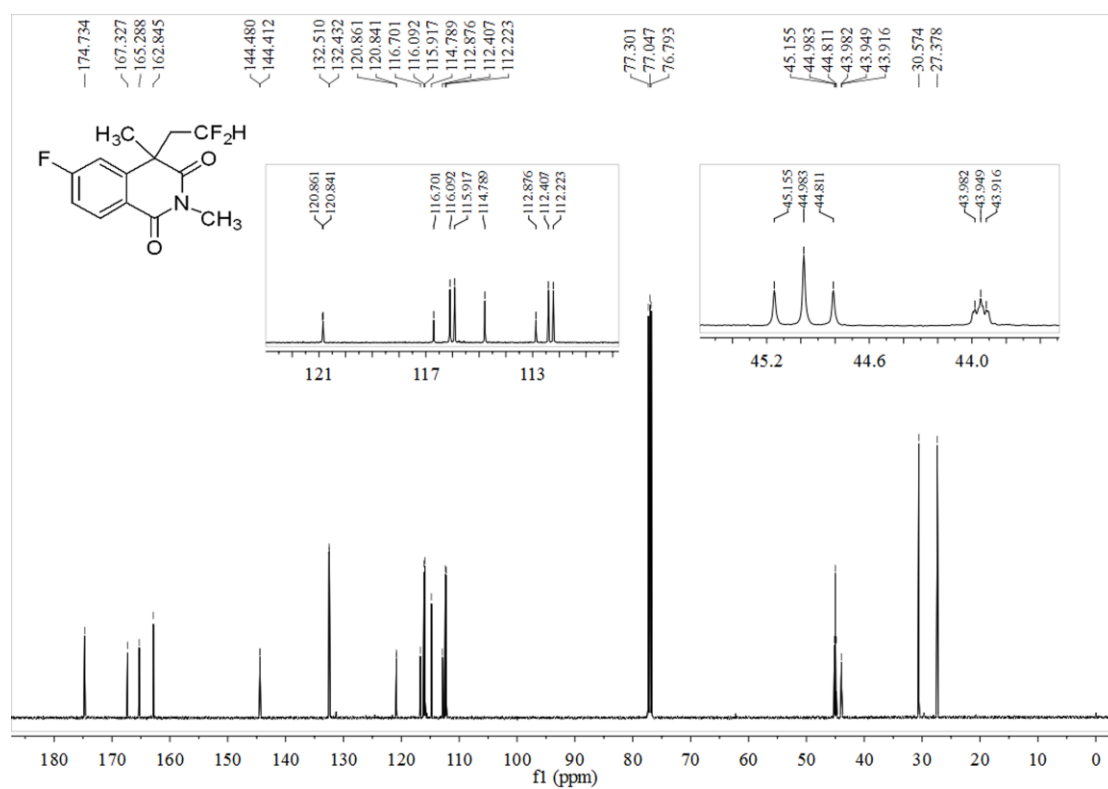




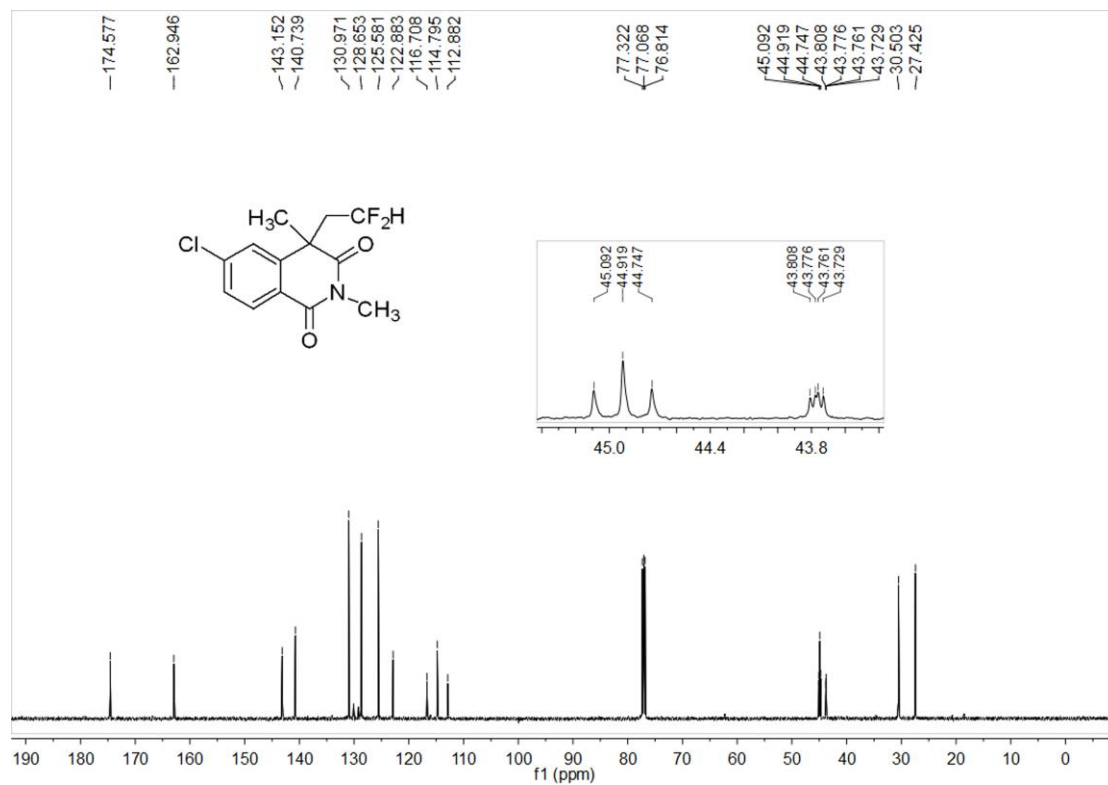
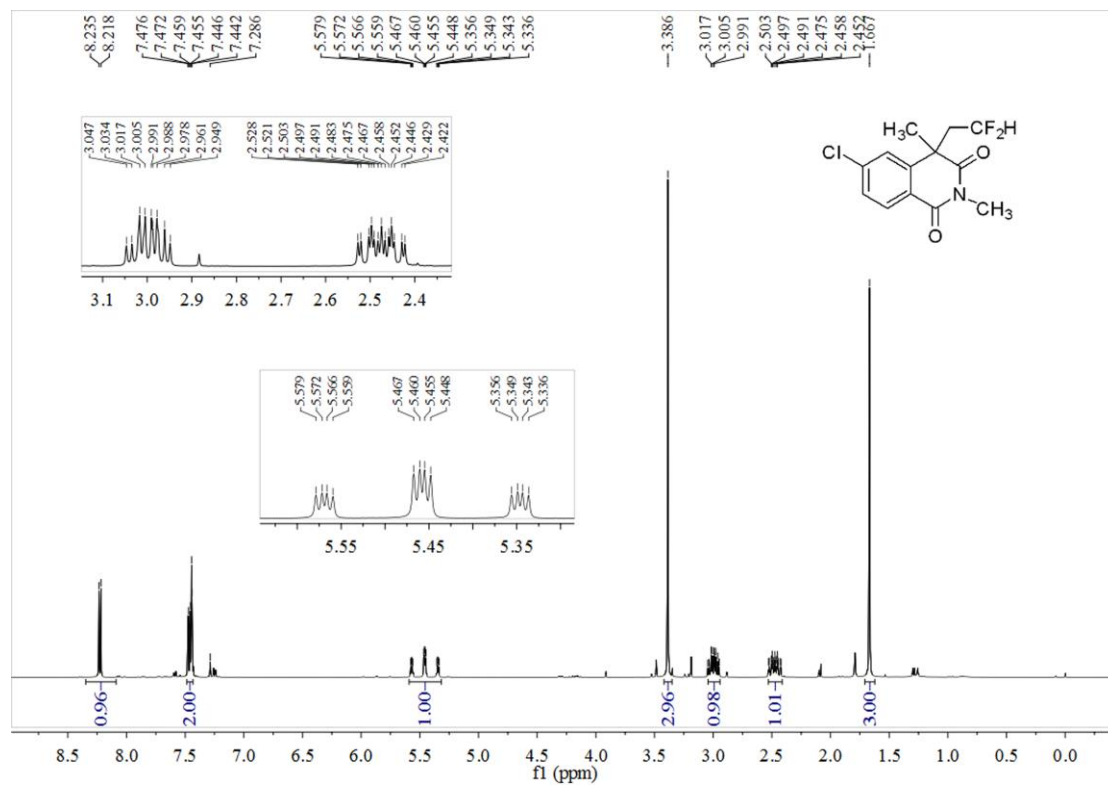
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **3c**:

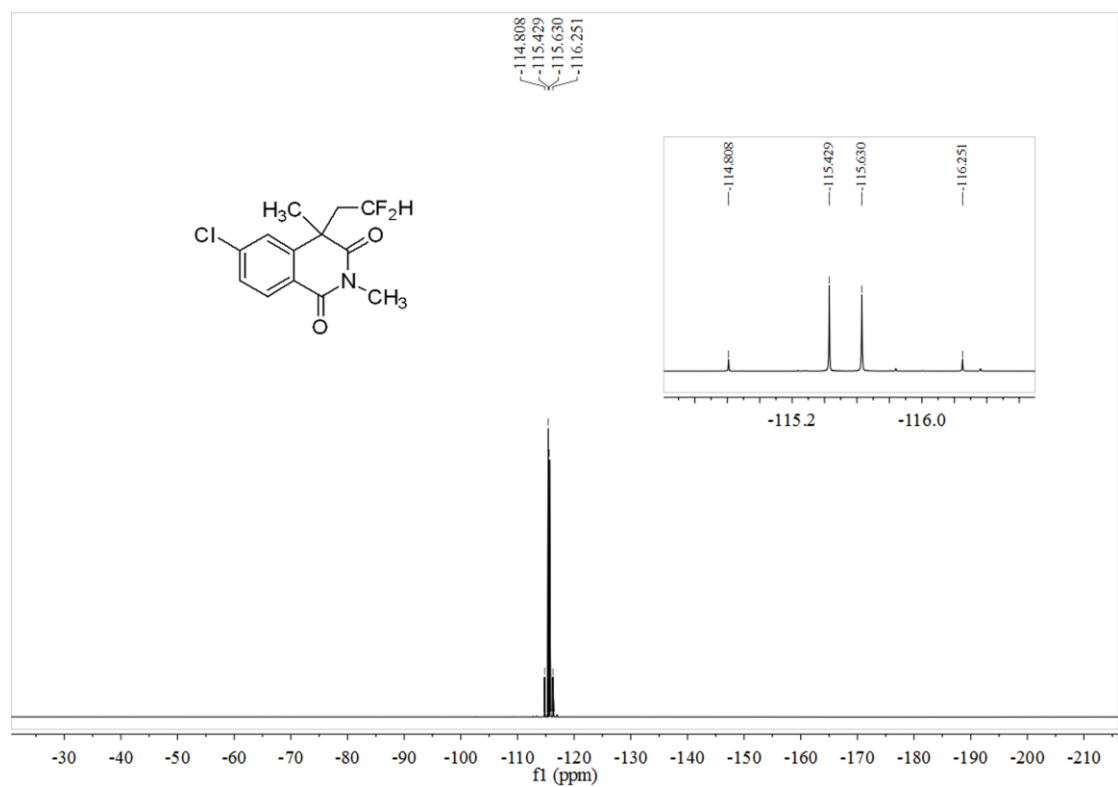




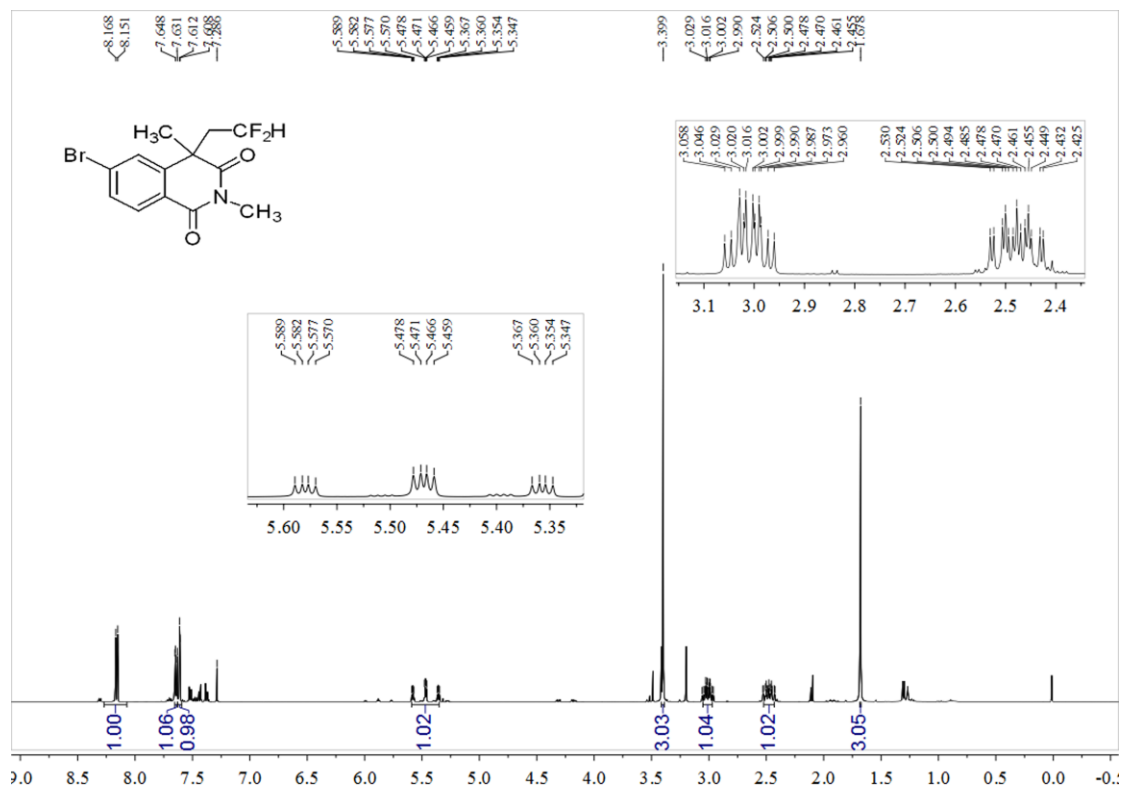


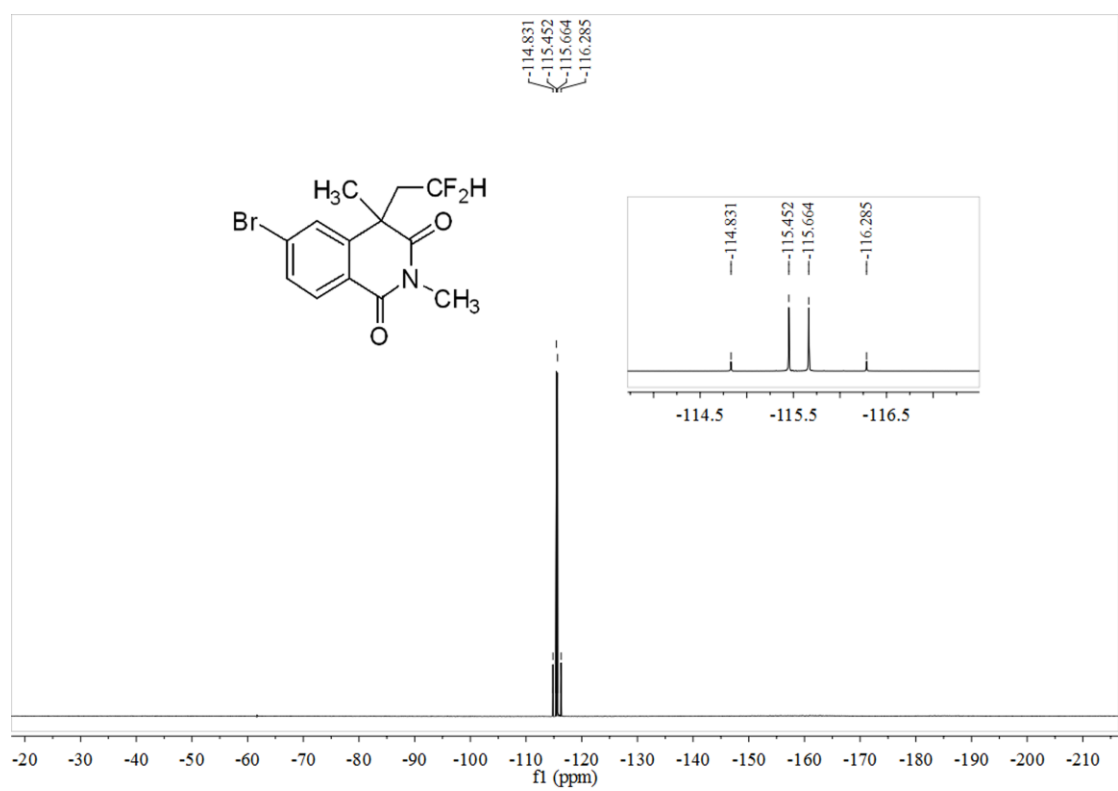
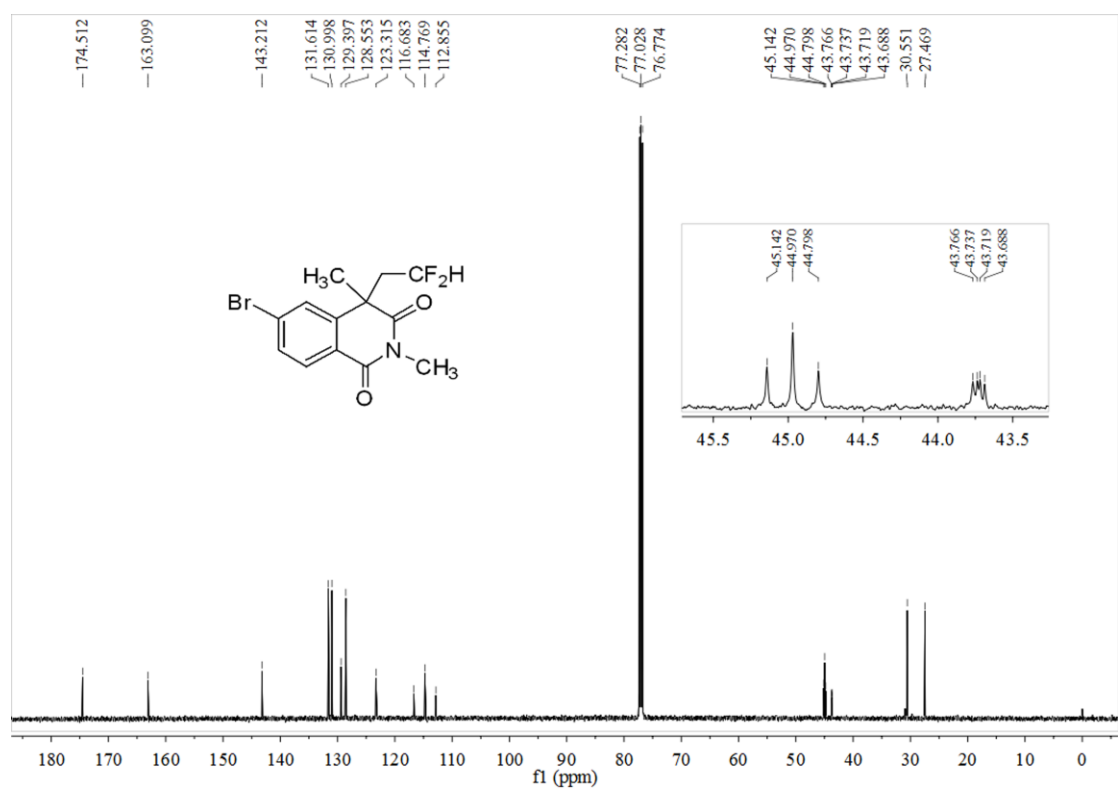
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **3e**:



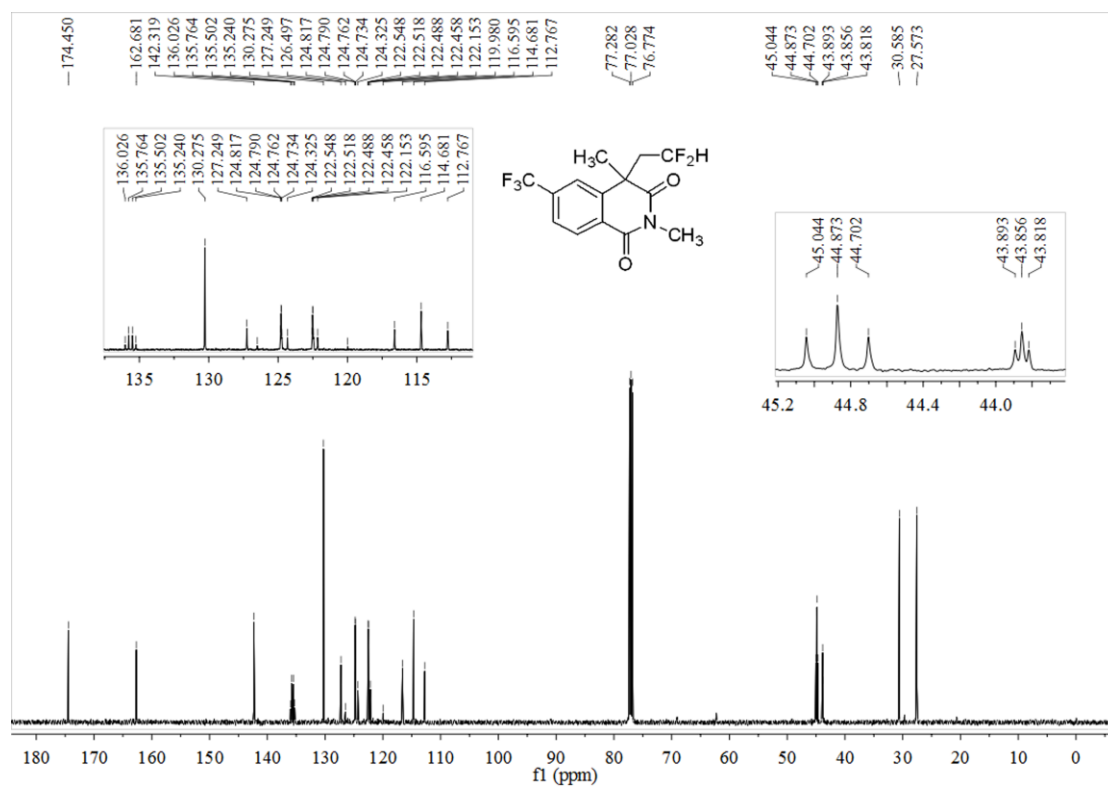
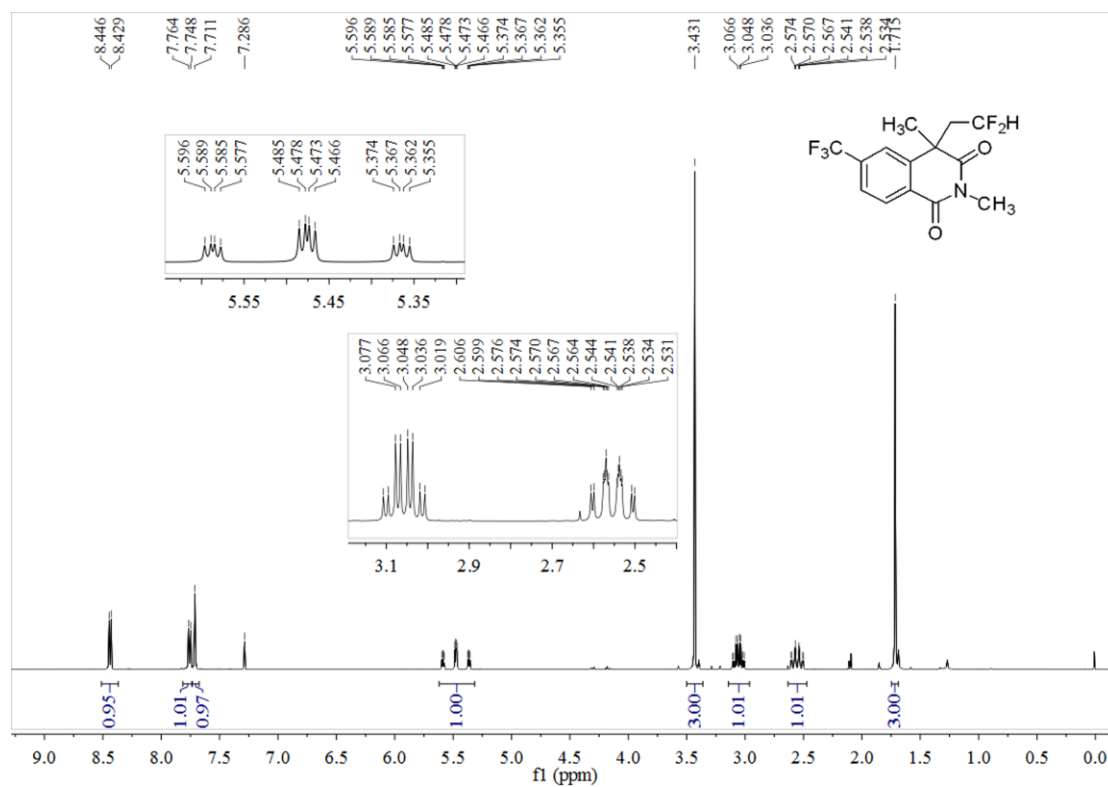


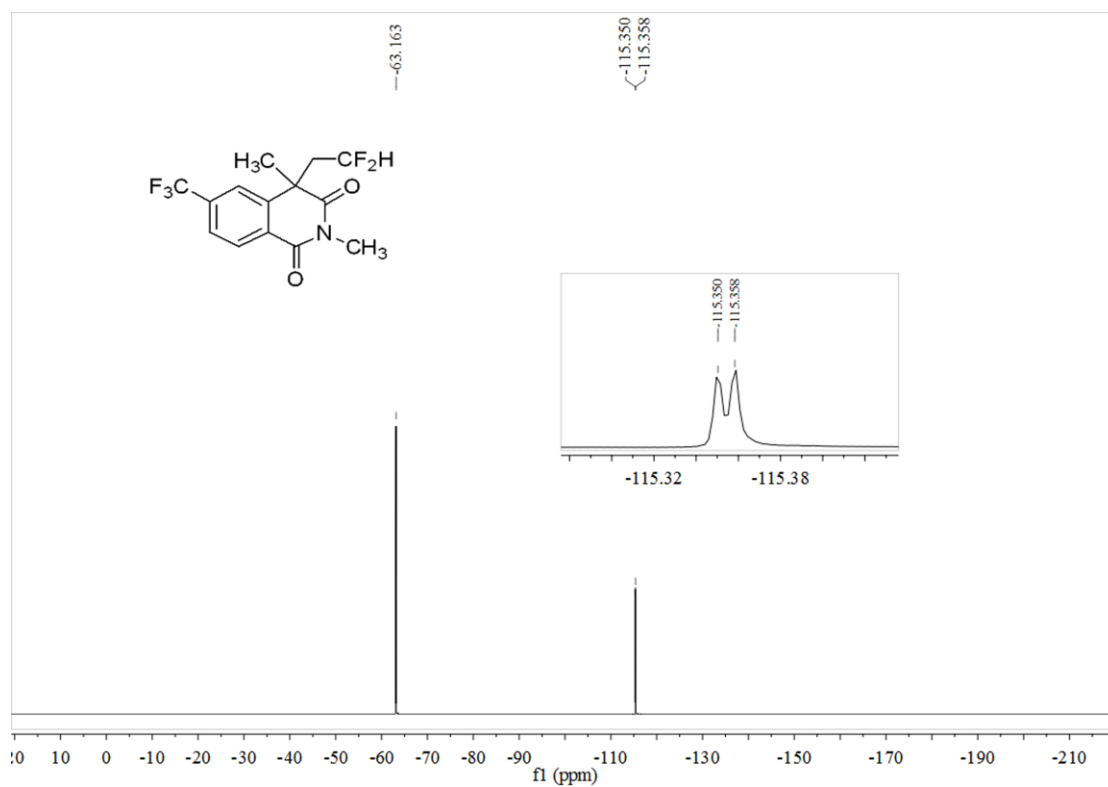
¹H NMR, ¹³C NMR and ¹⁹F NMR spectra of compound **3f**:



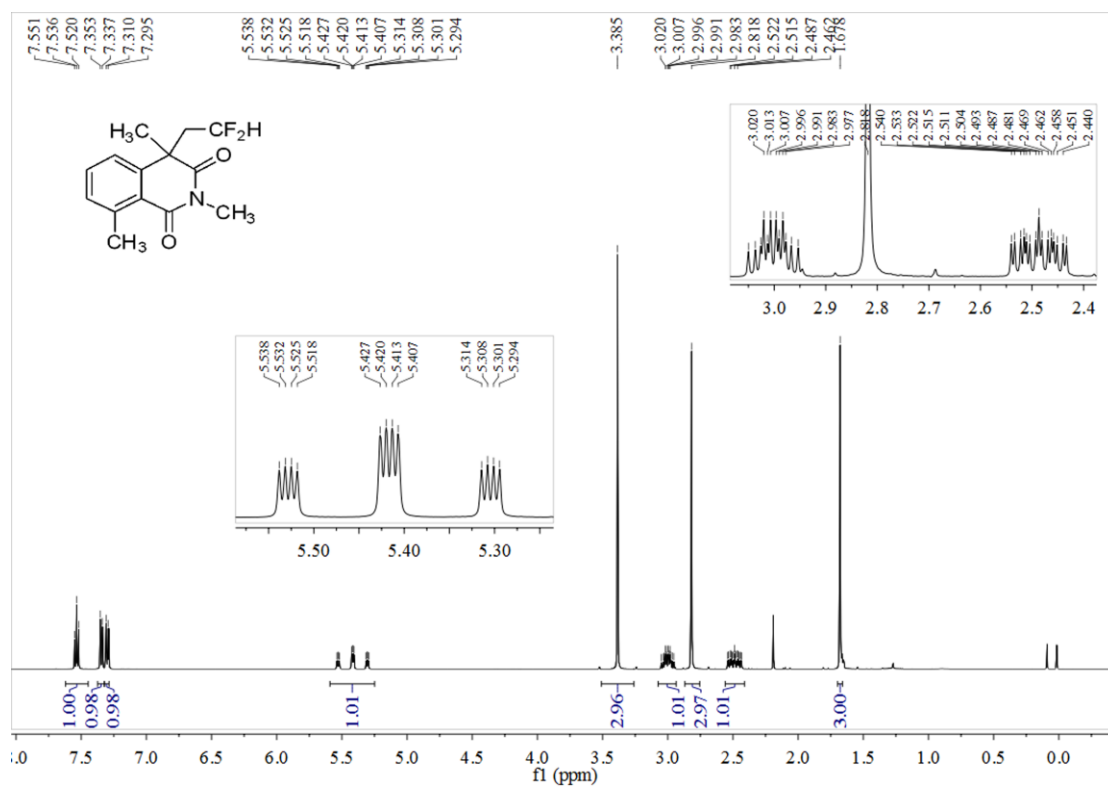


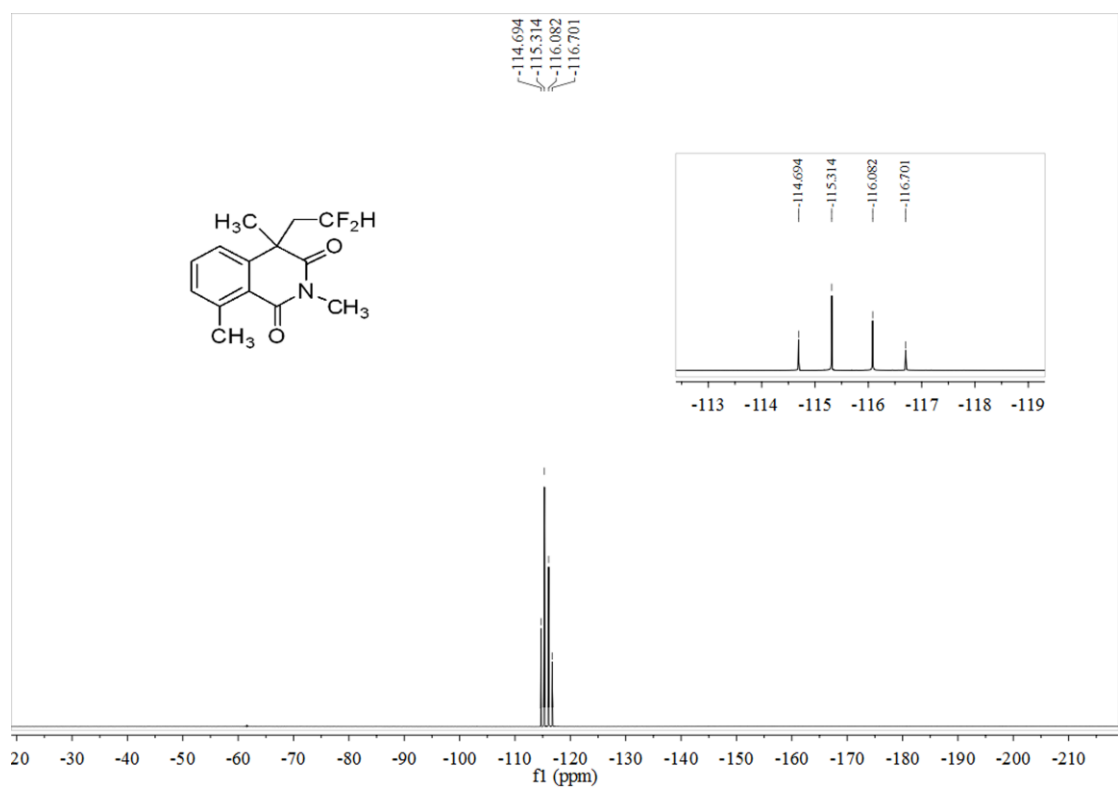
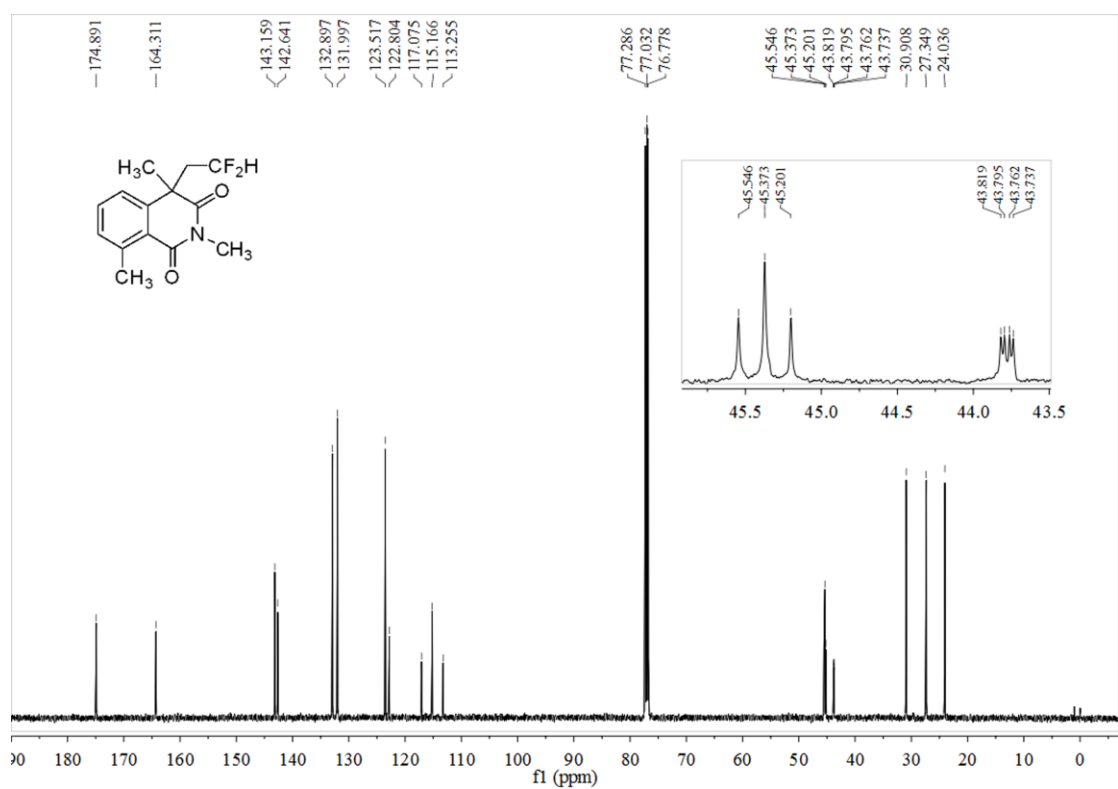
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **3g**:



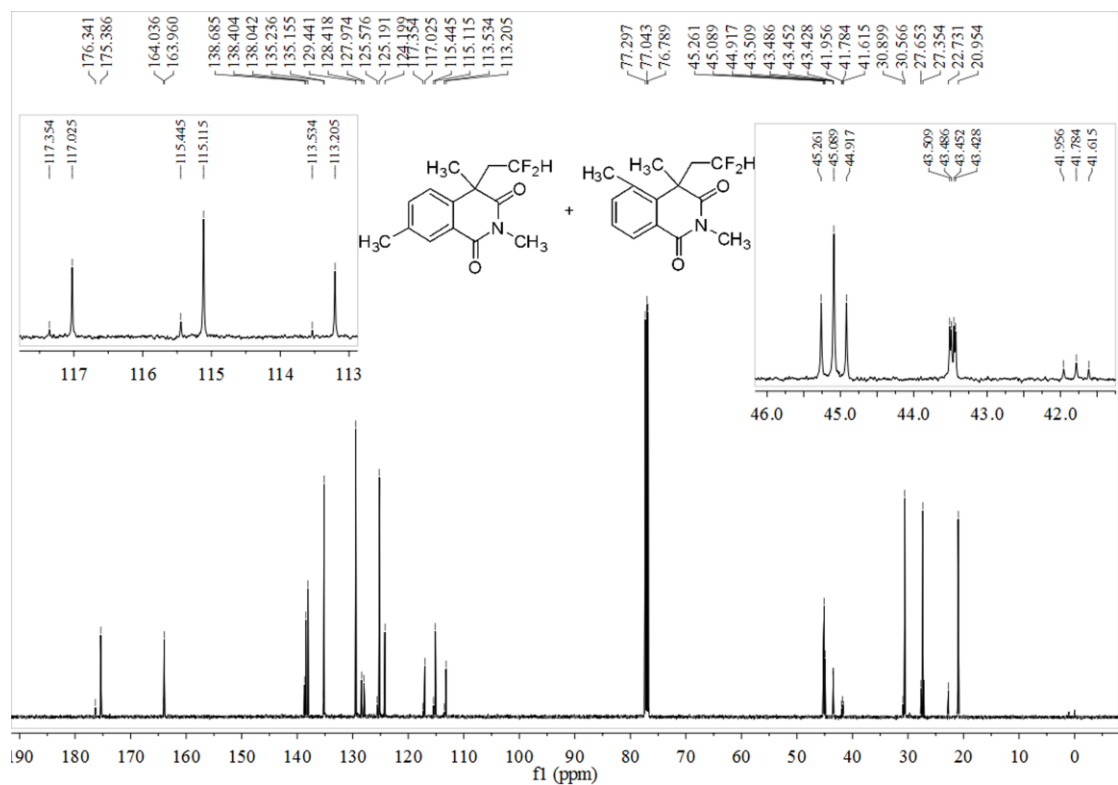
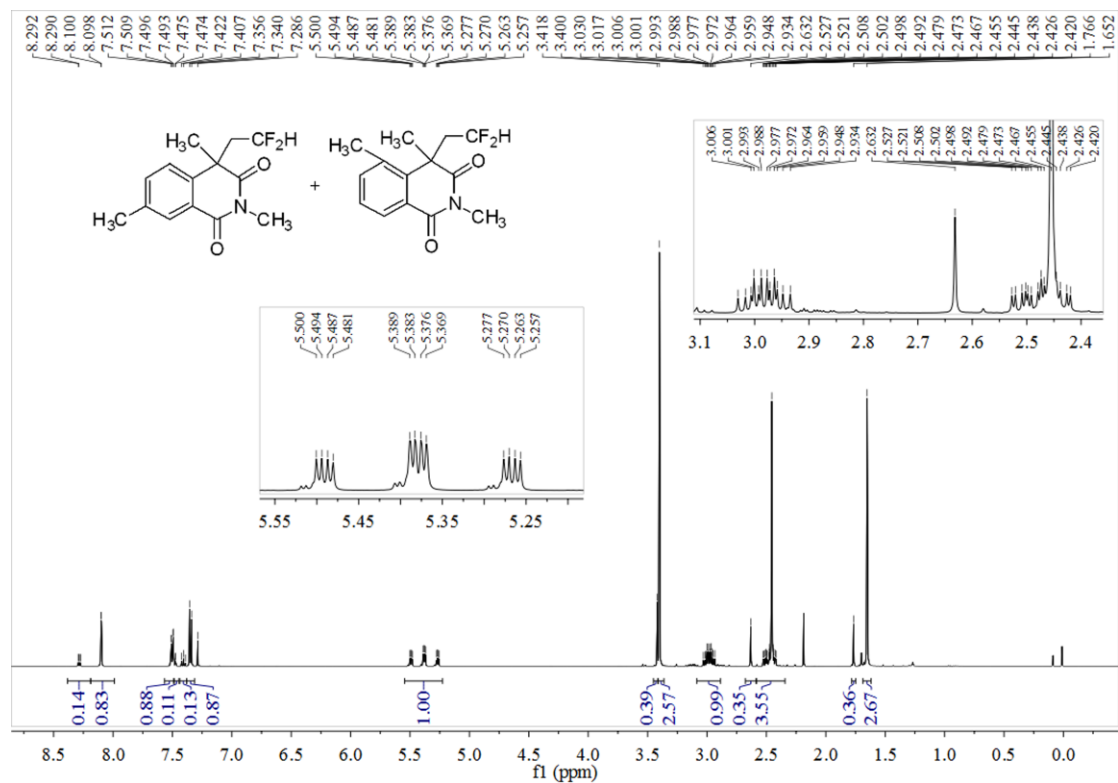


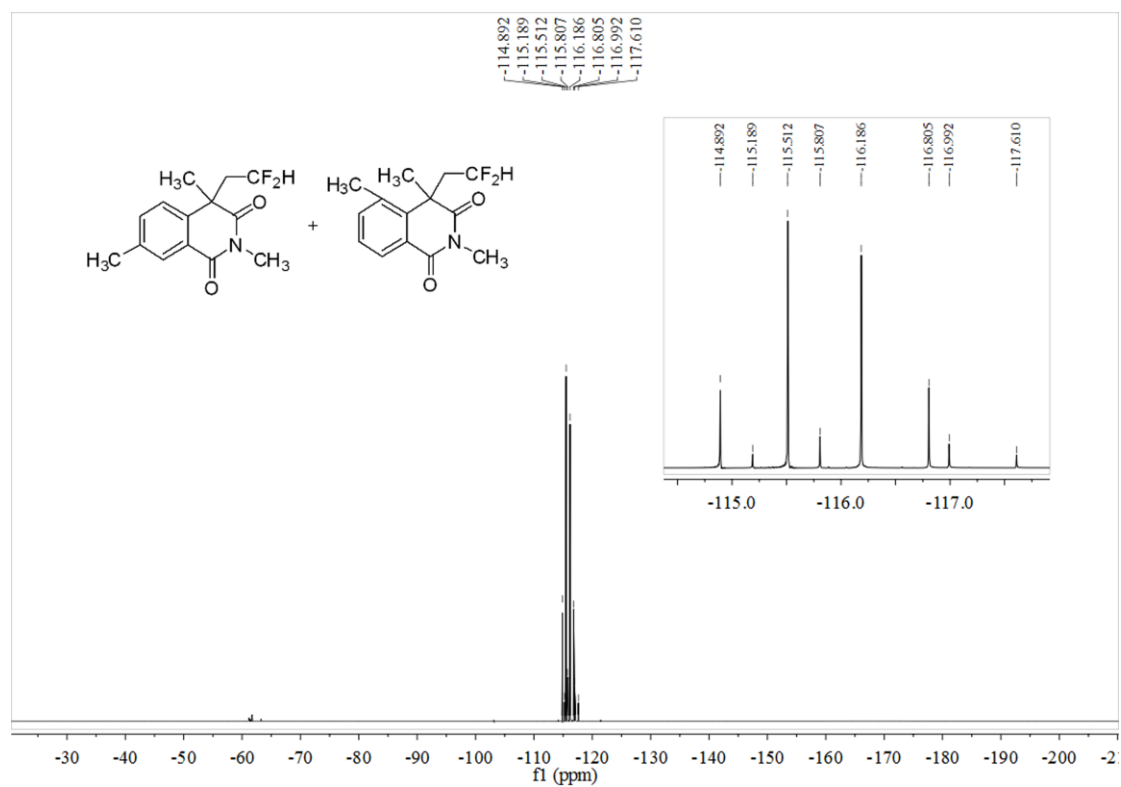
¹H NMR, ¹³C NMR and ¹⁹F NMR spectra of compound **3h**:



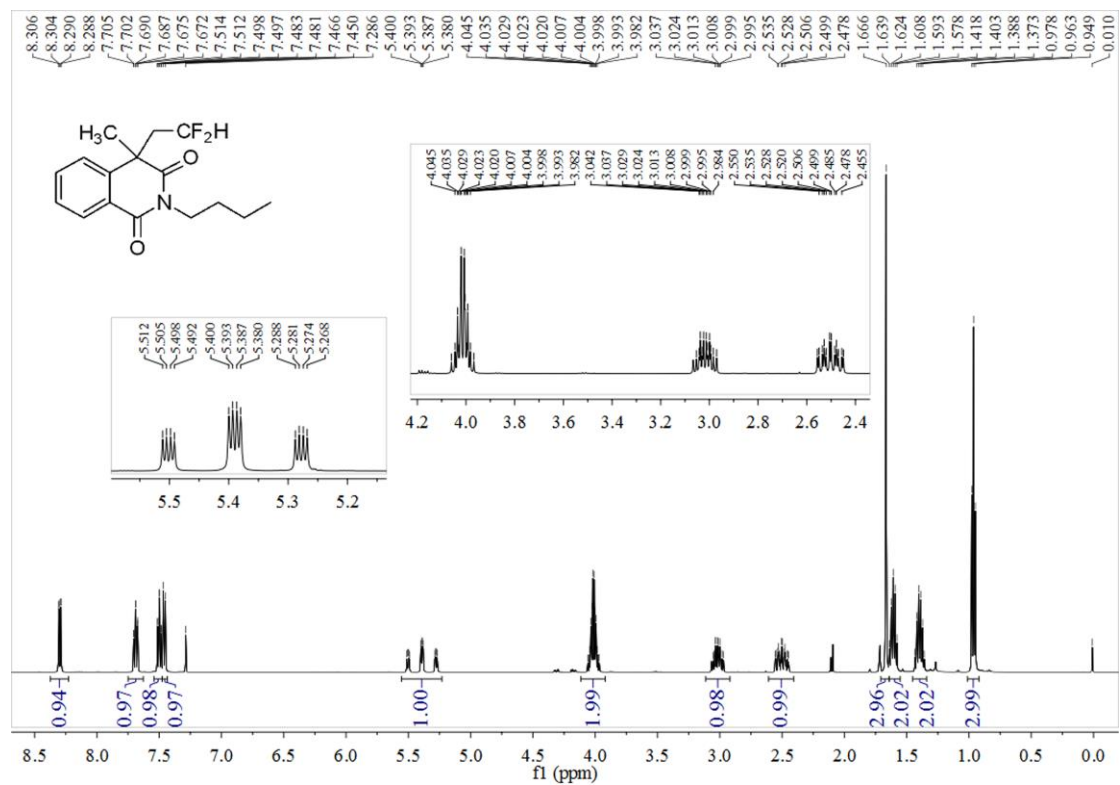


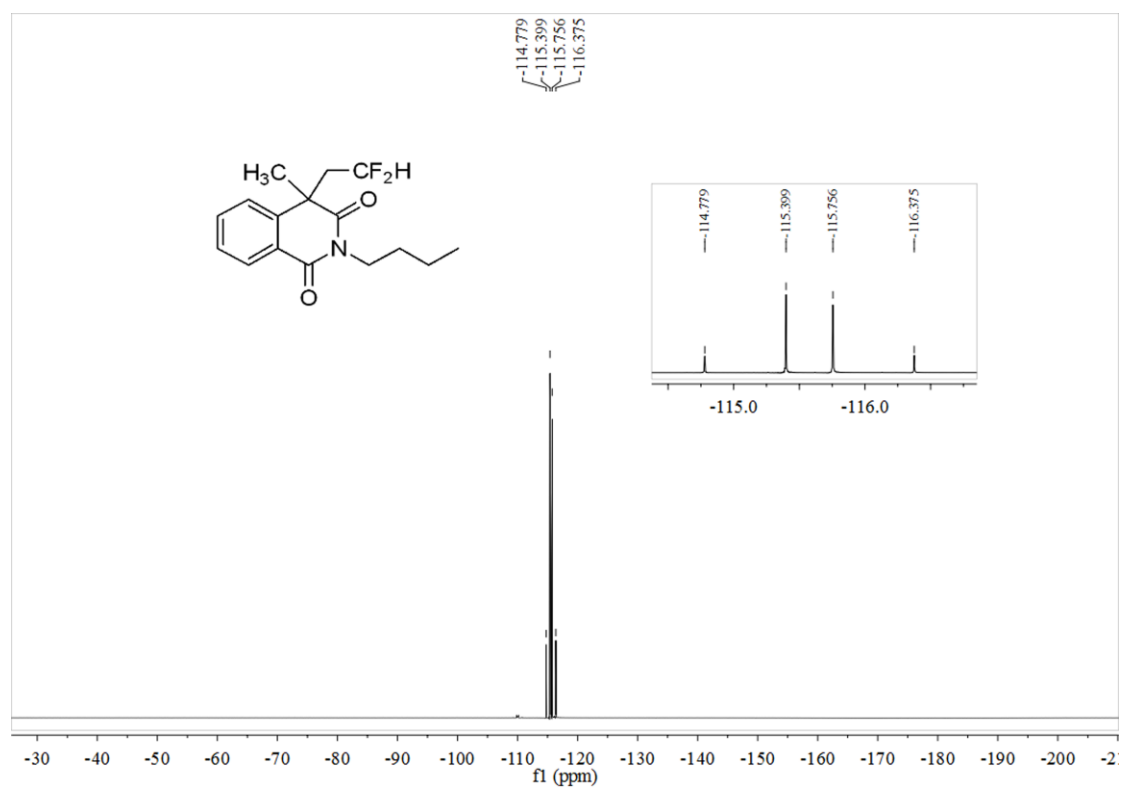
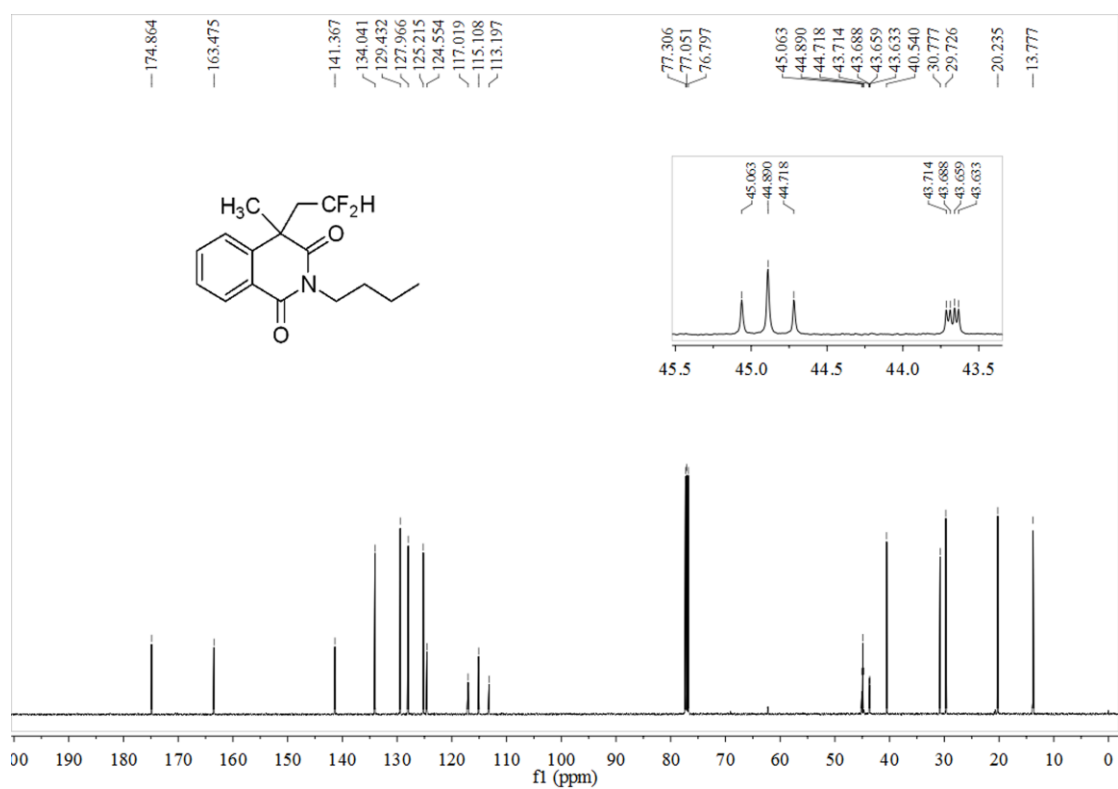
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **3i** and **3i'**:



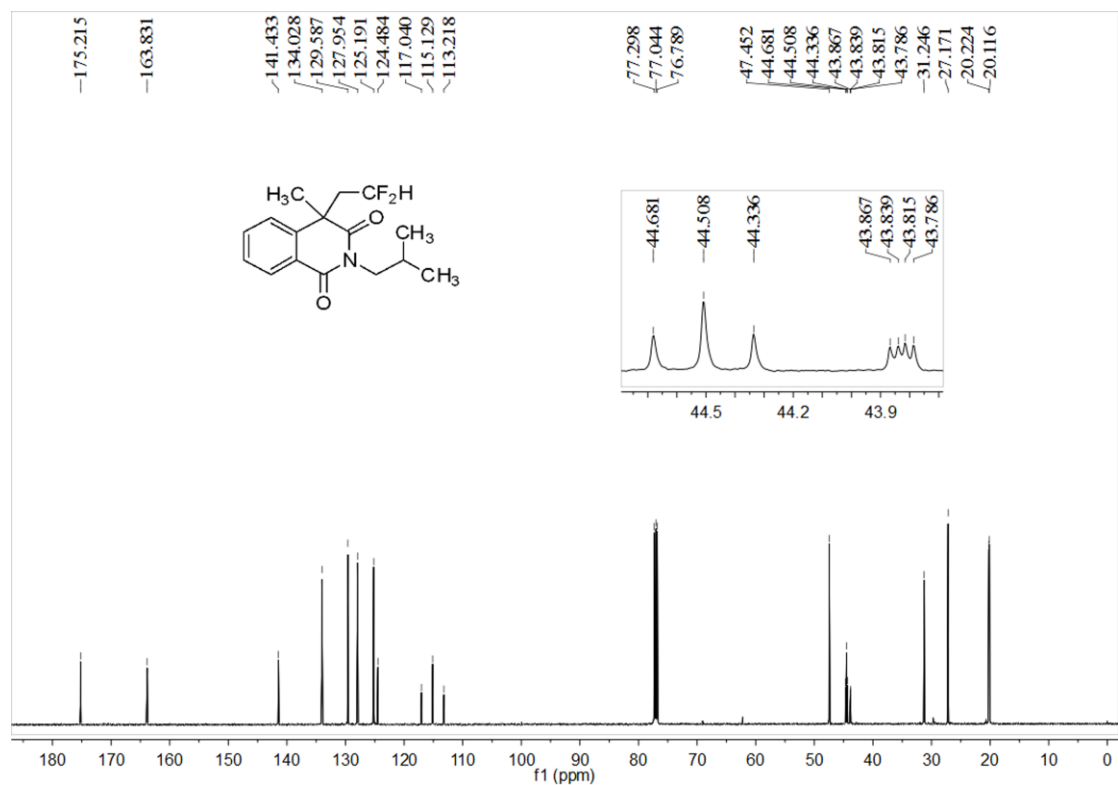
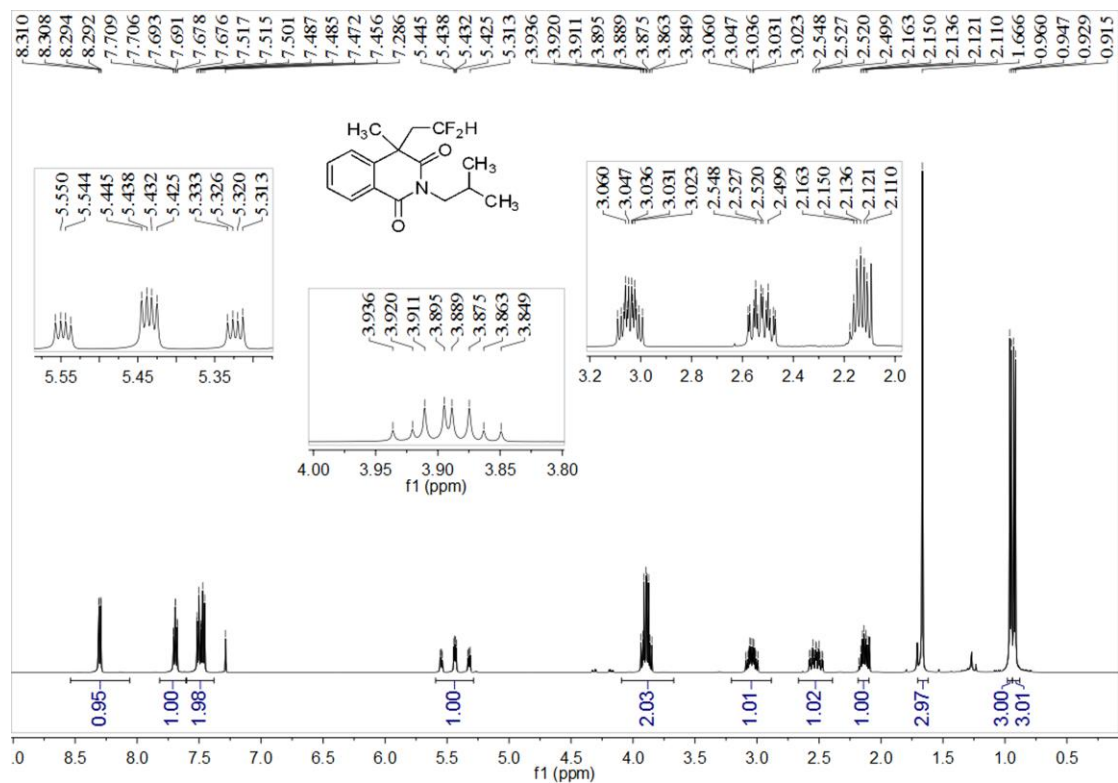


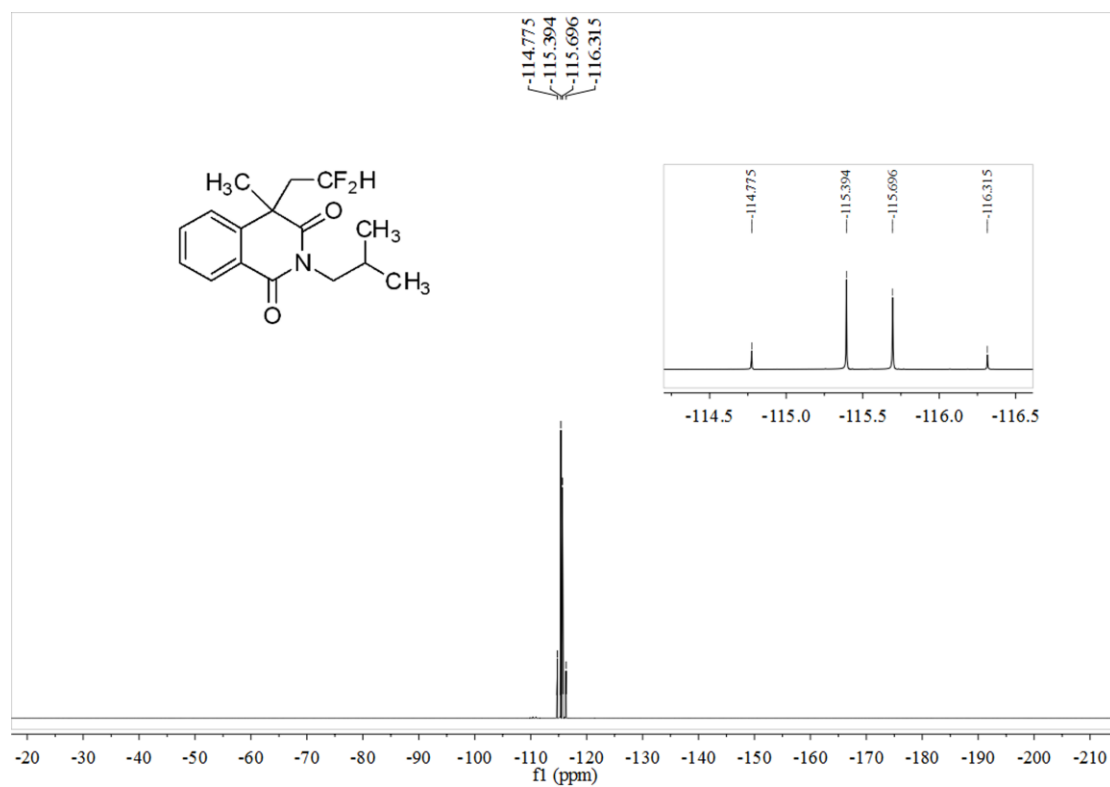
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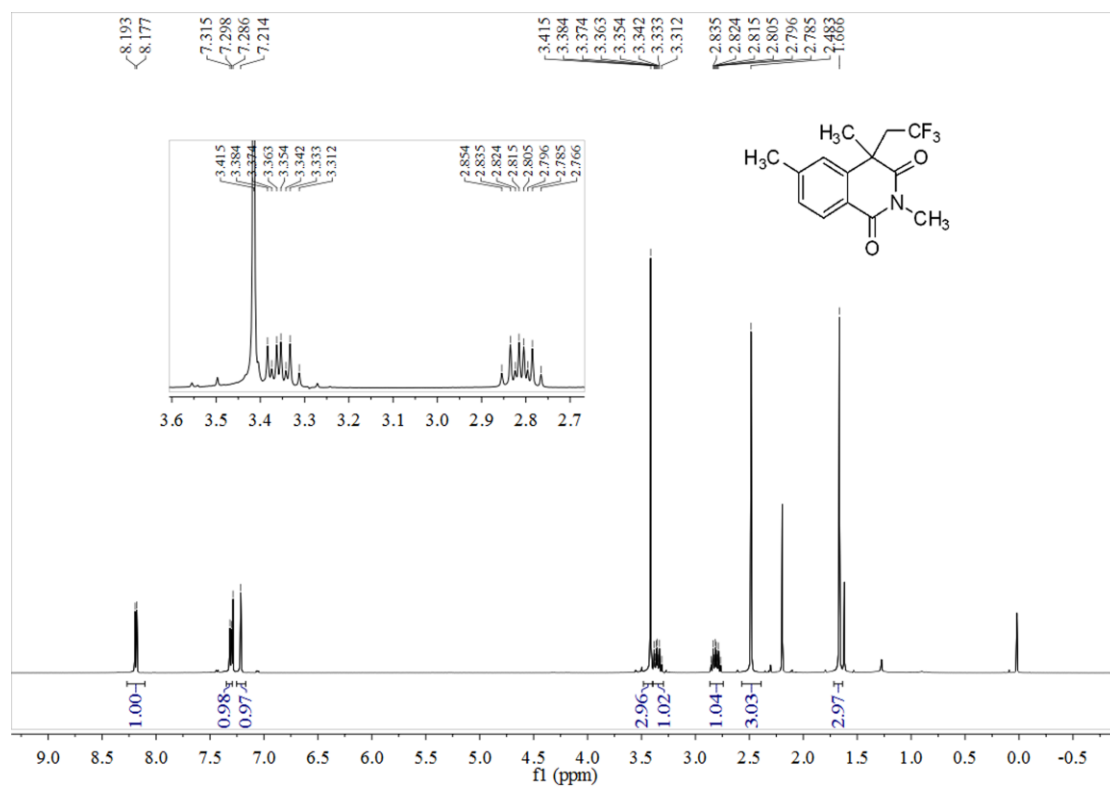


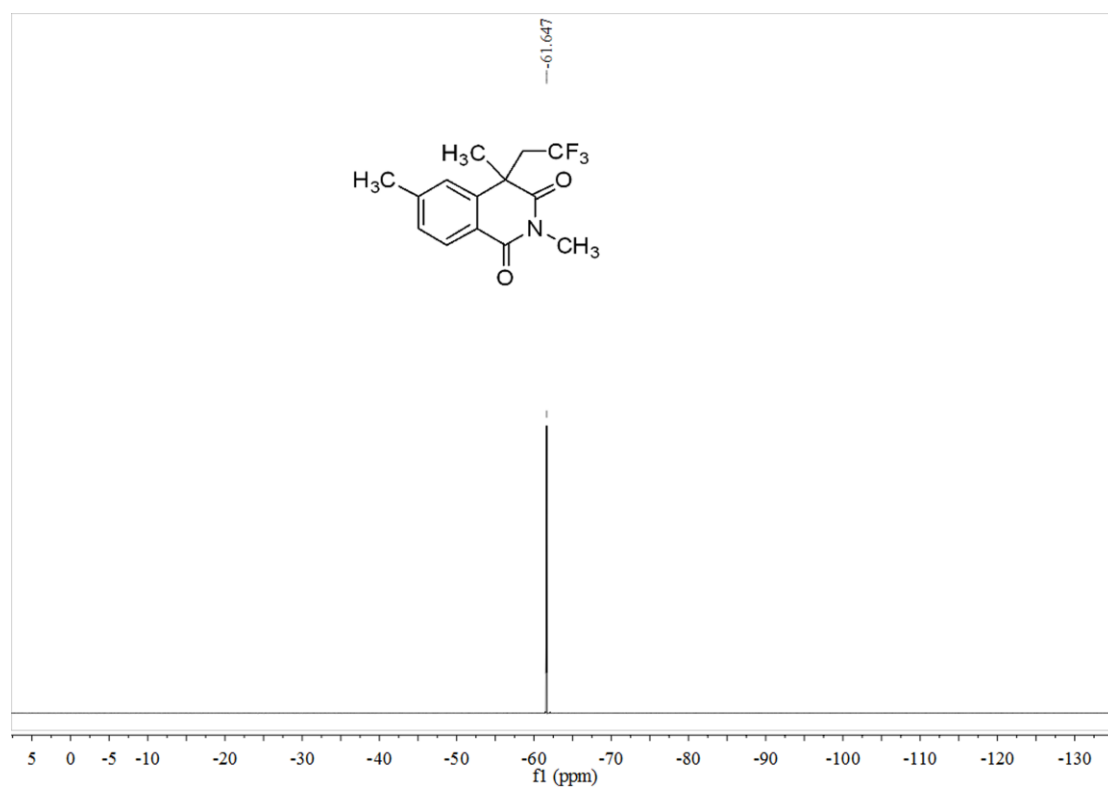
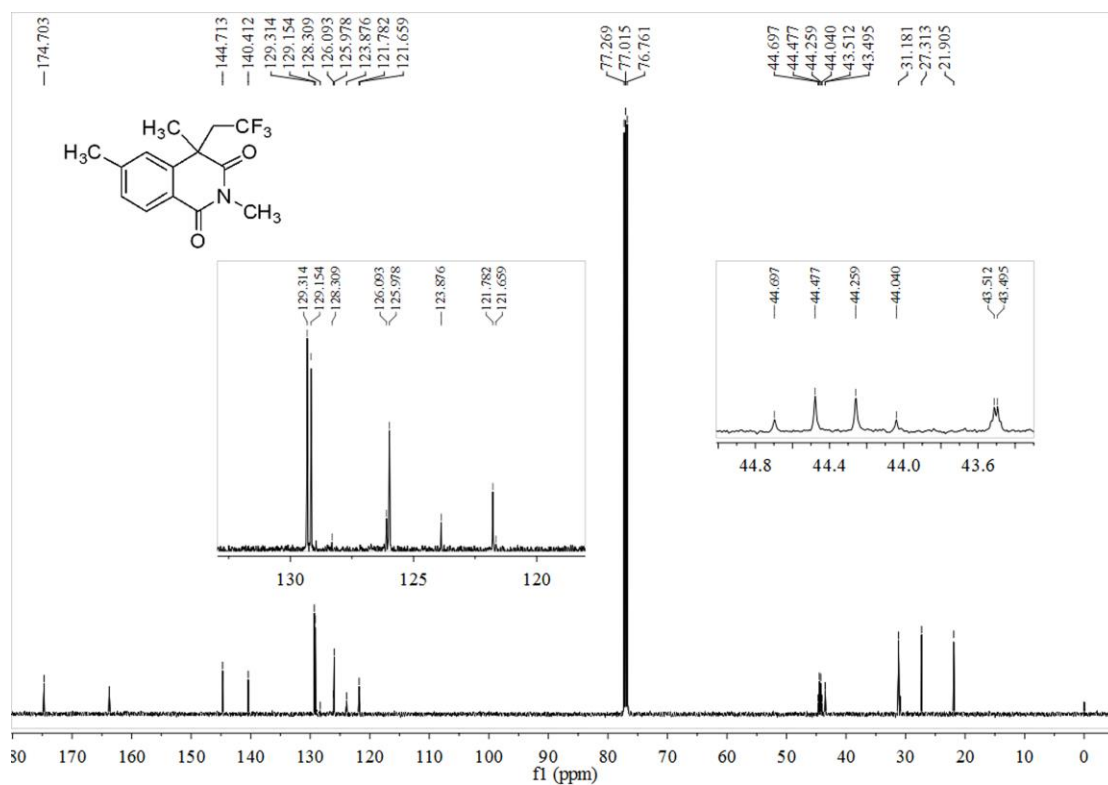
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **3k** :



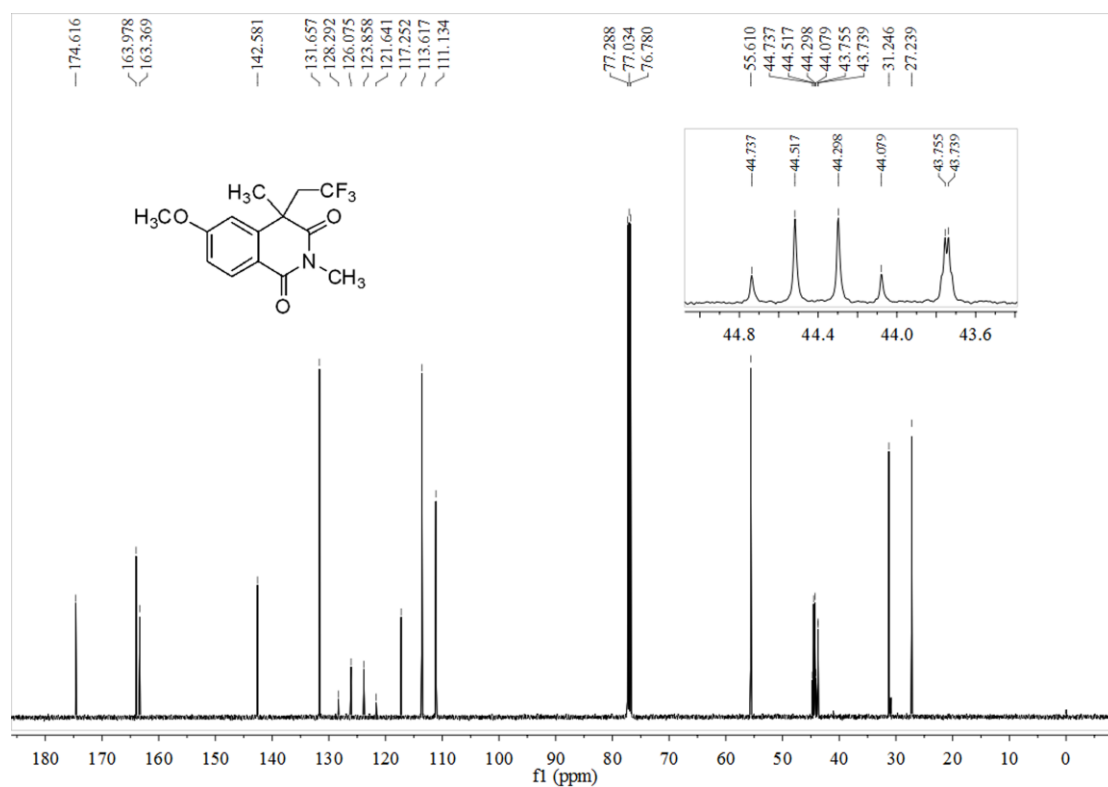
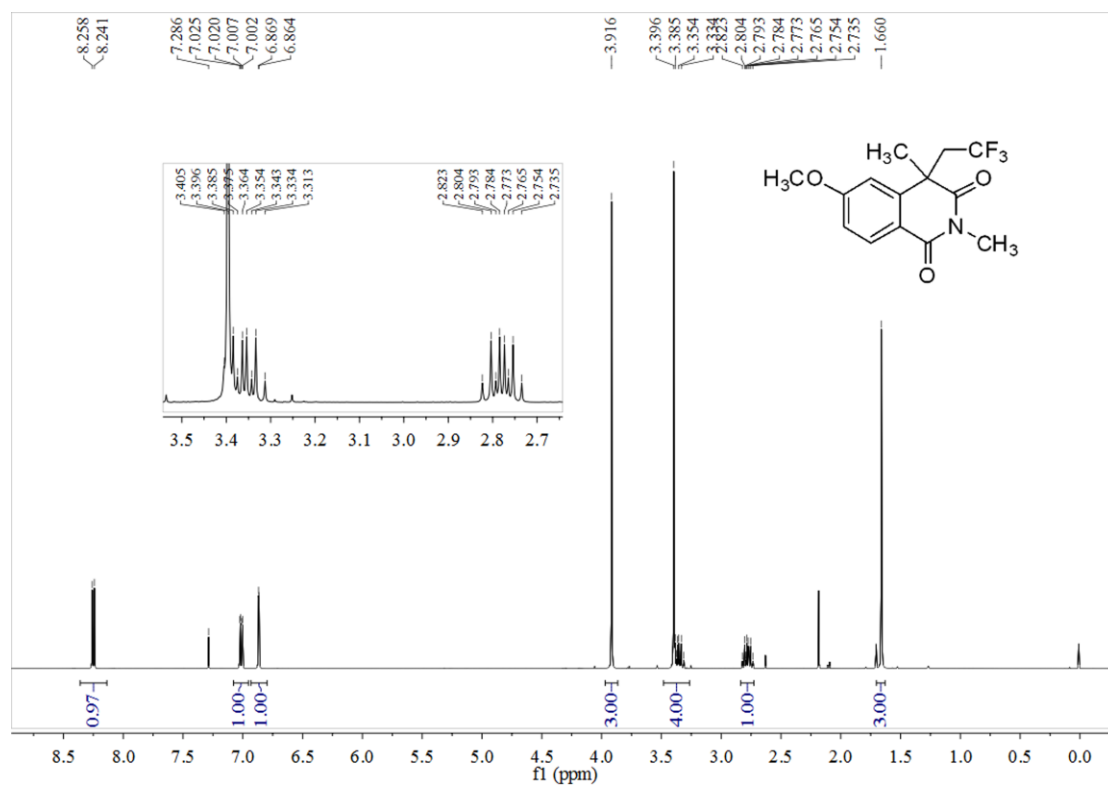


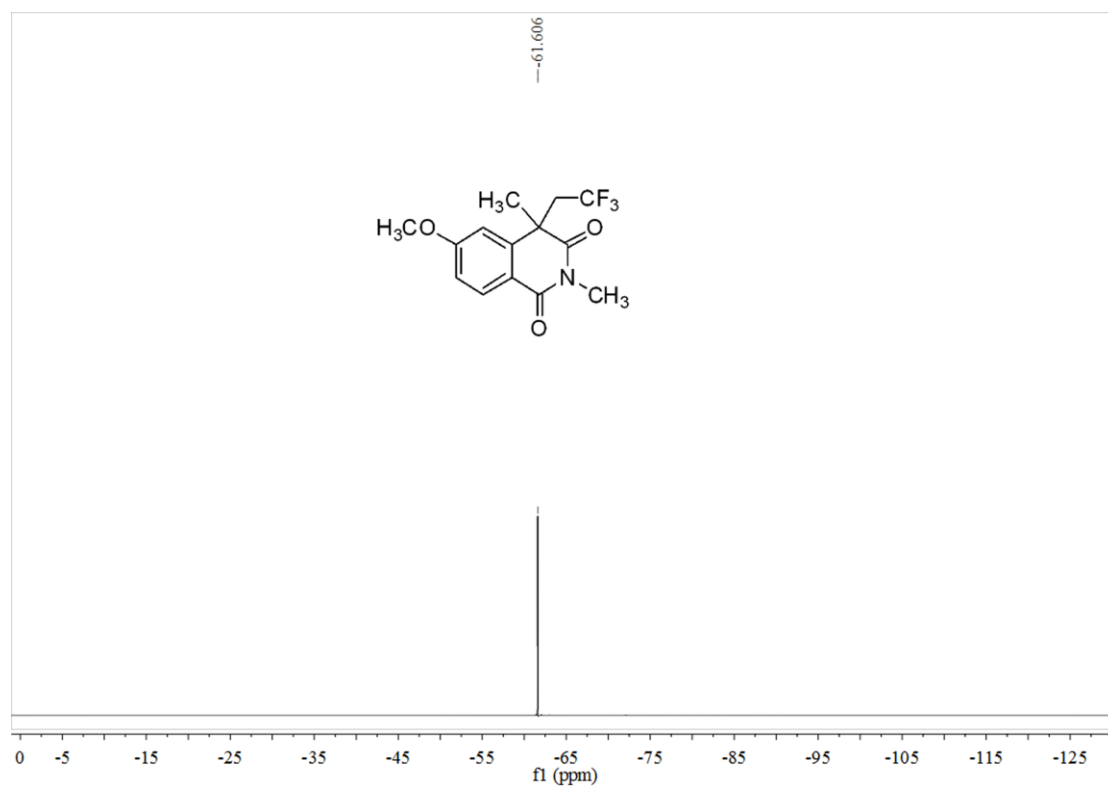
¹H NMR, ¹³C NMR and ¹⁹F NMR spectra of compound **5a** :



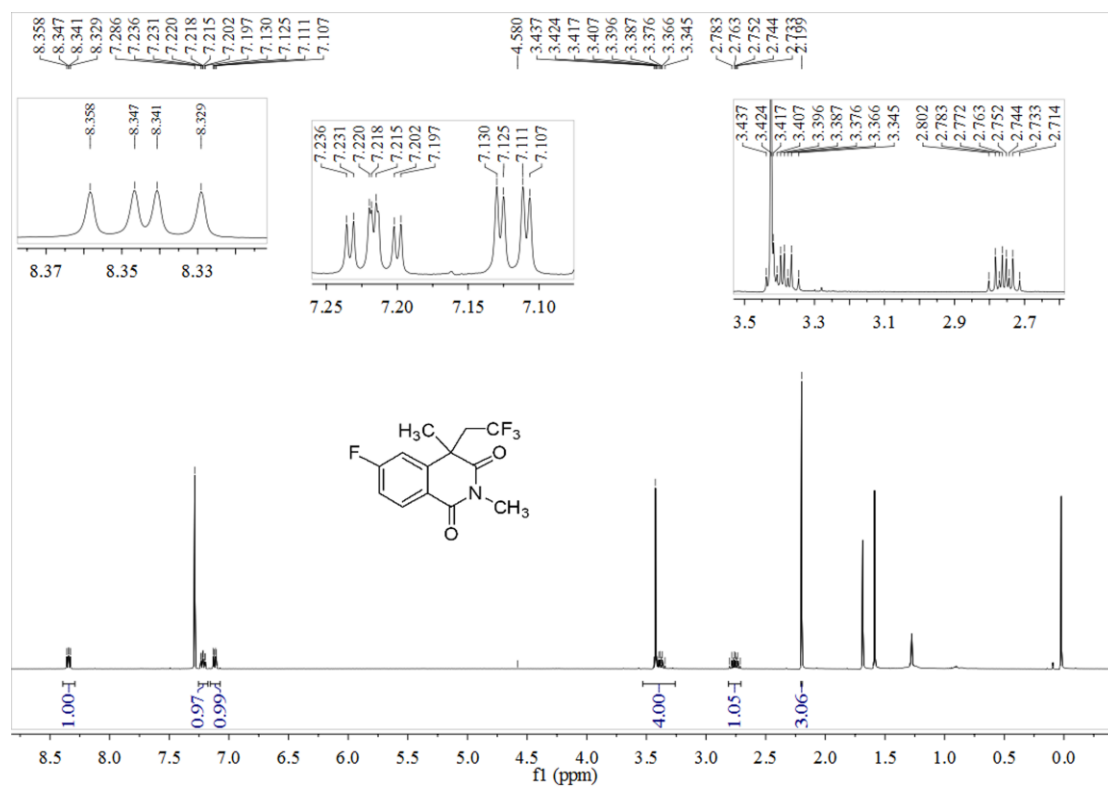


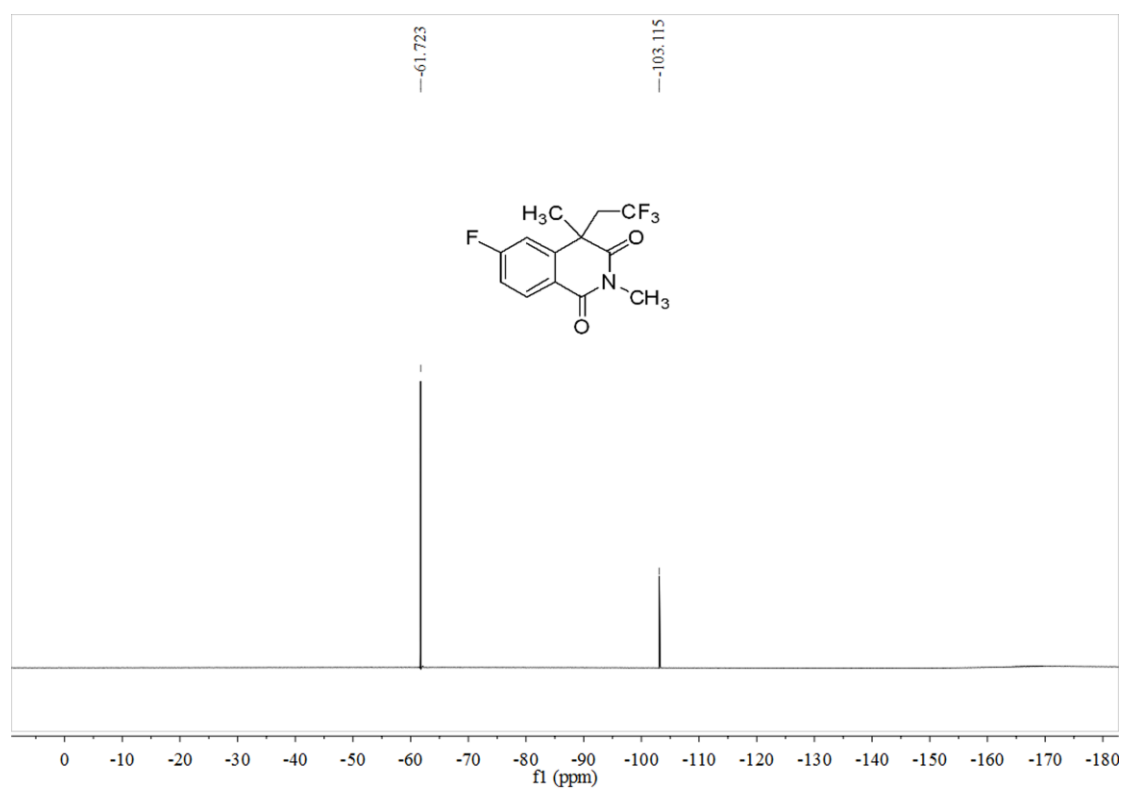
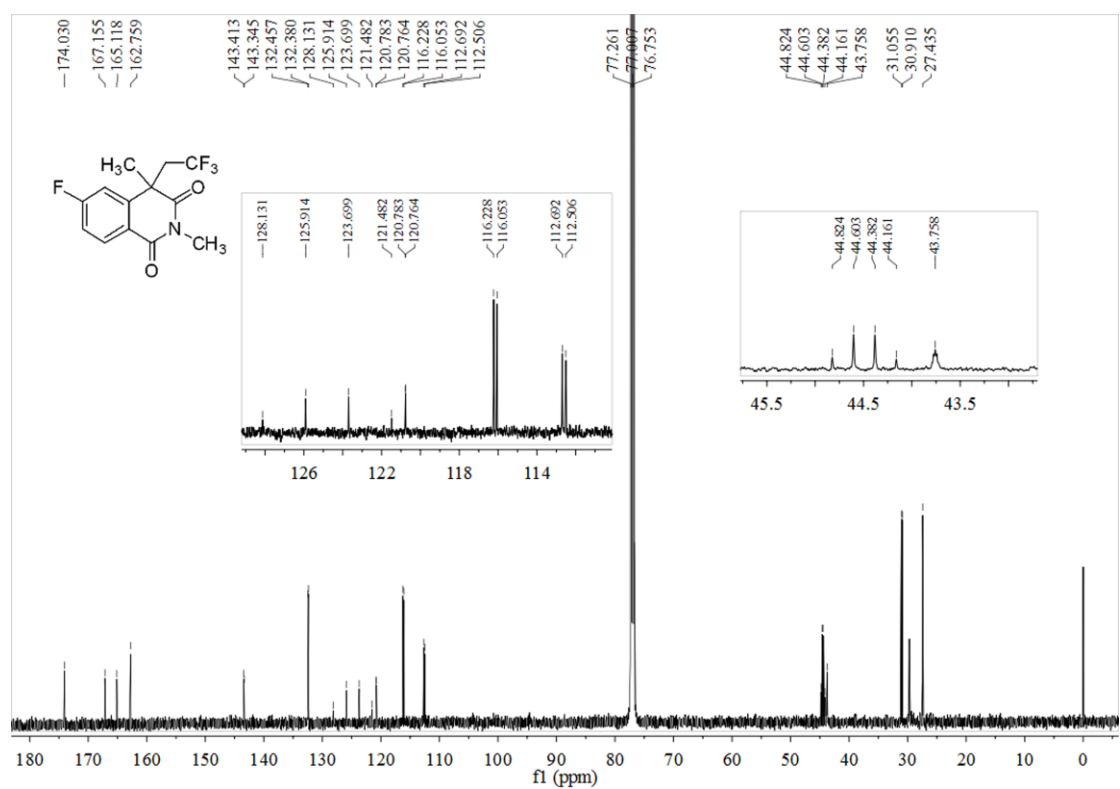
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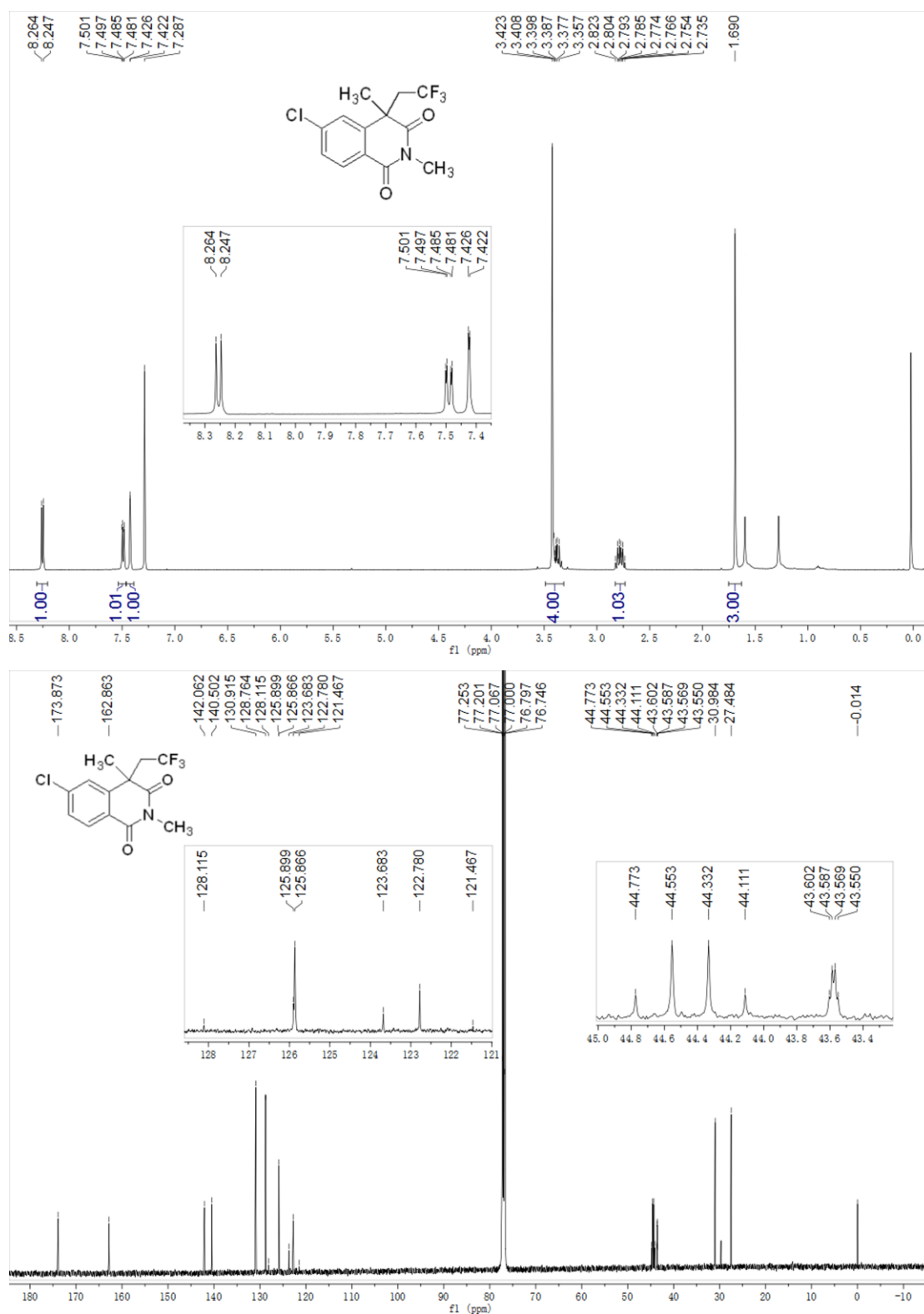


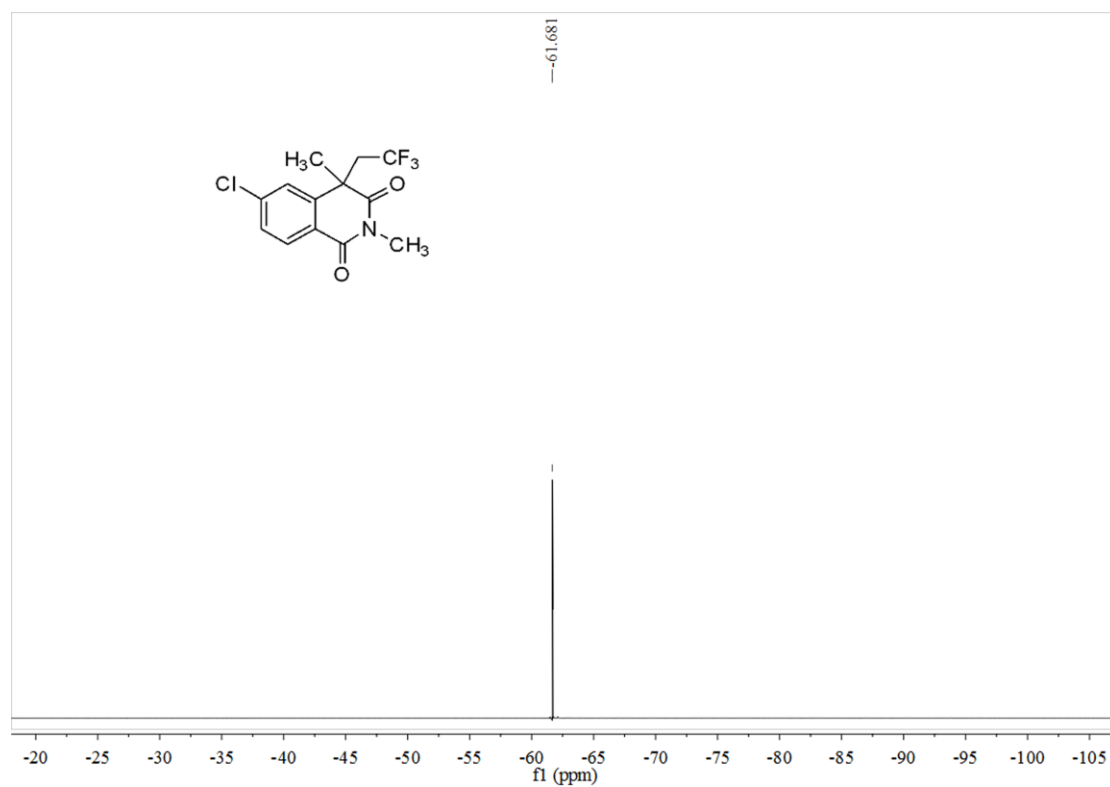
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **5c** :



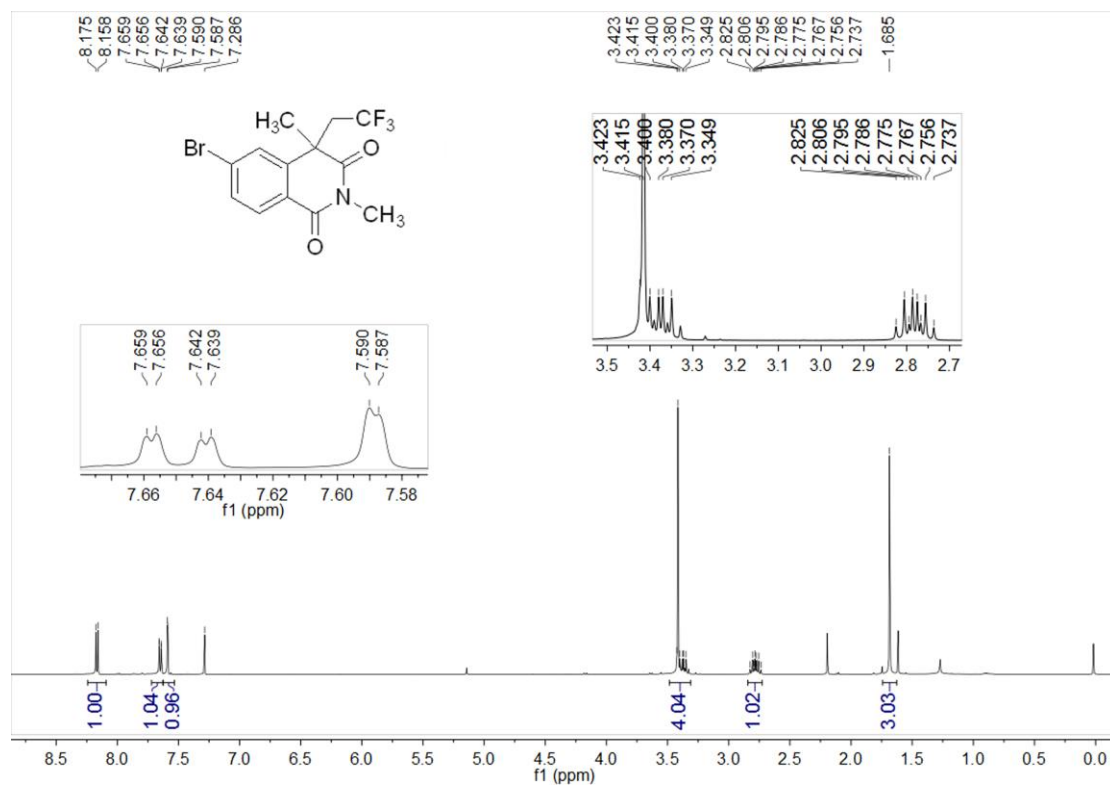


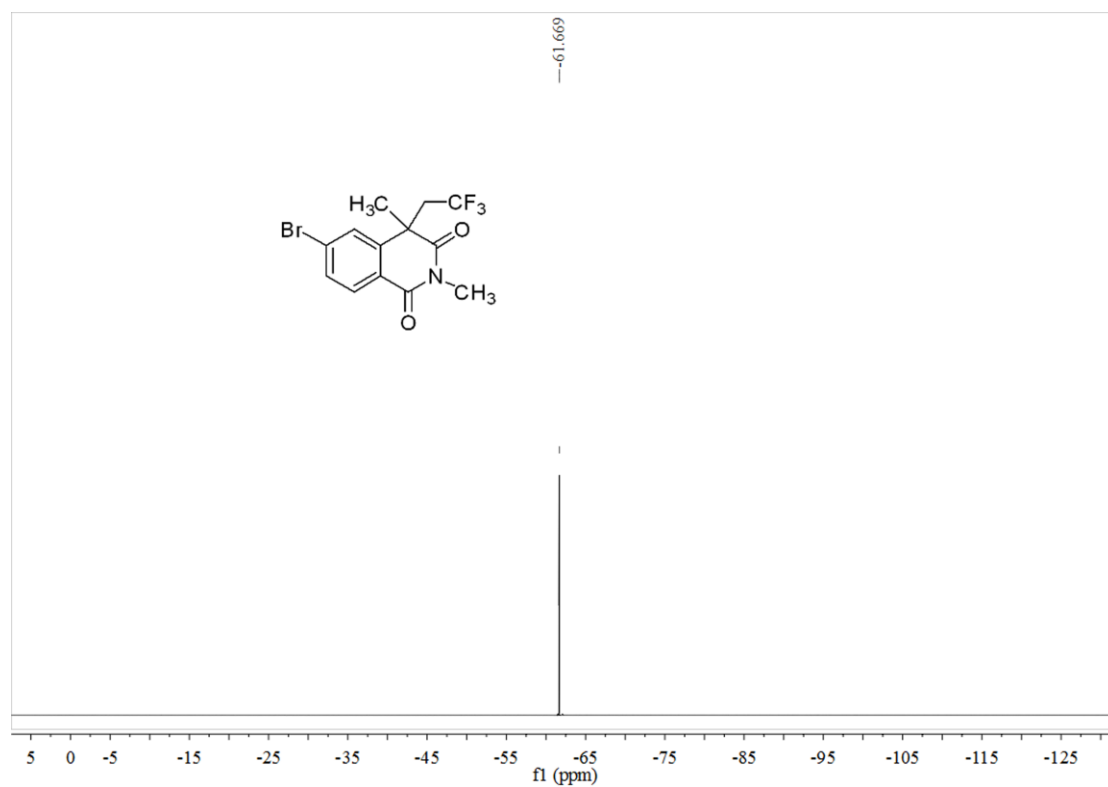
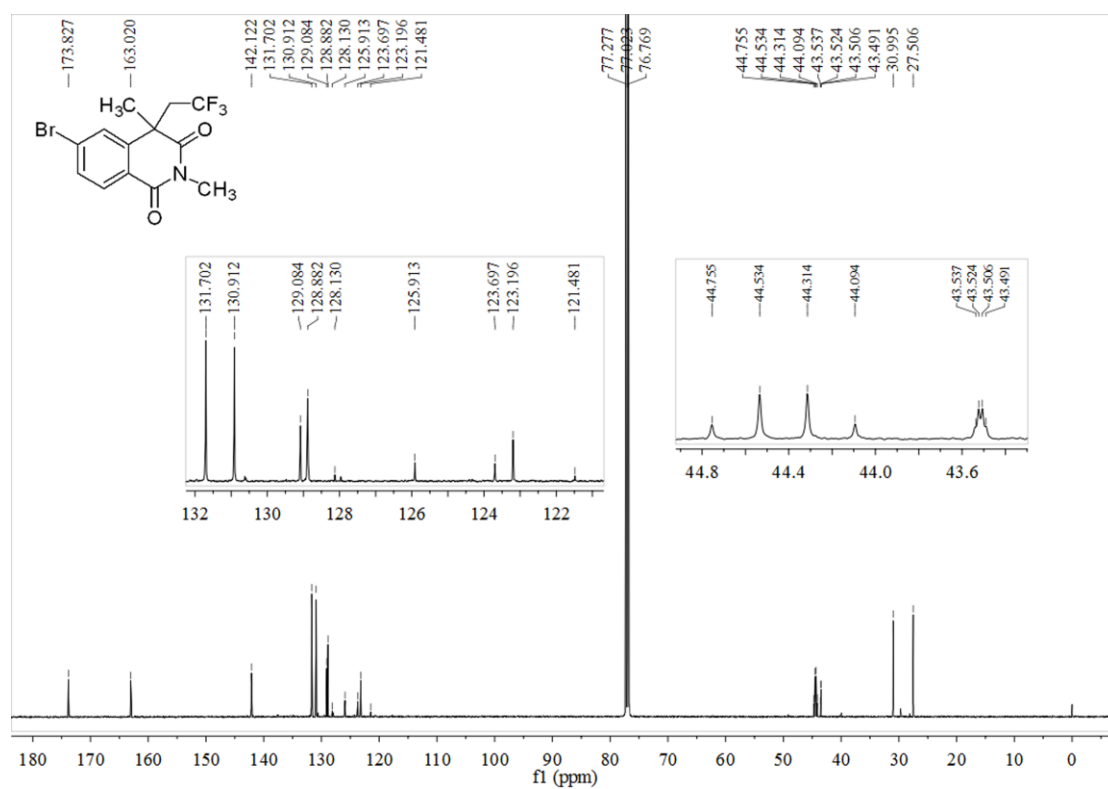
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **5d** :



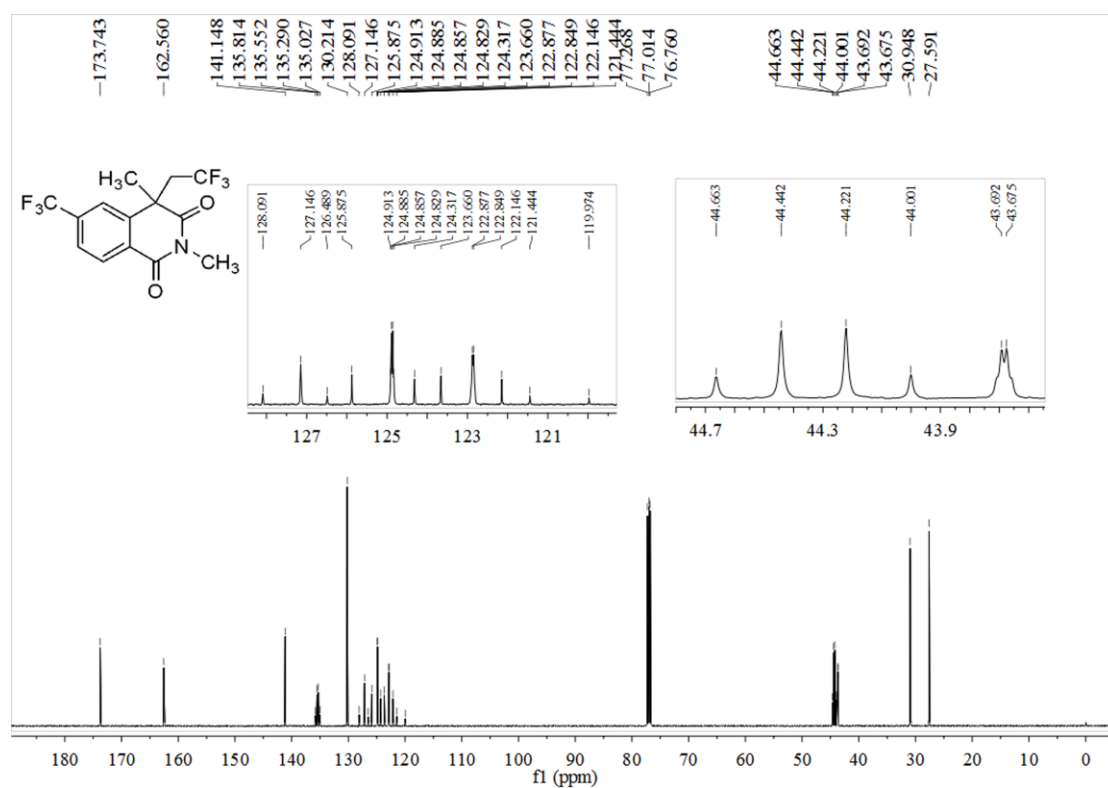
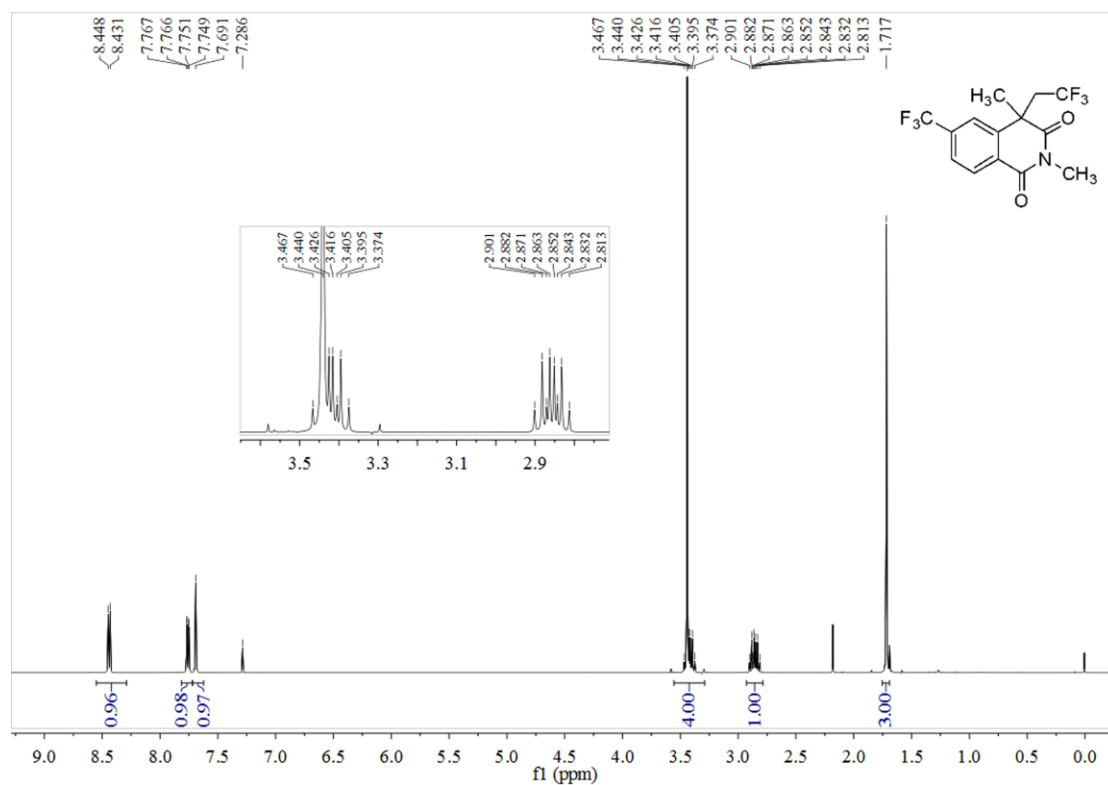


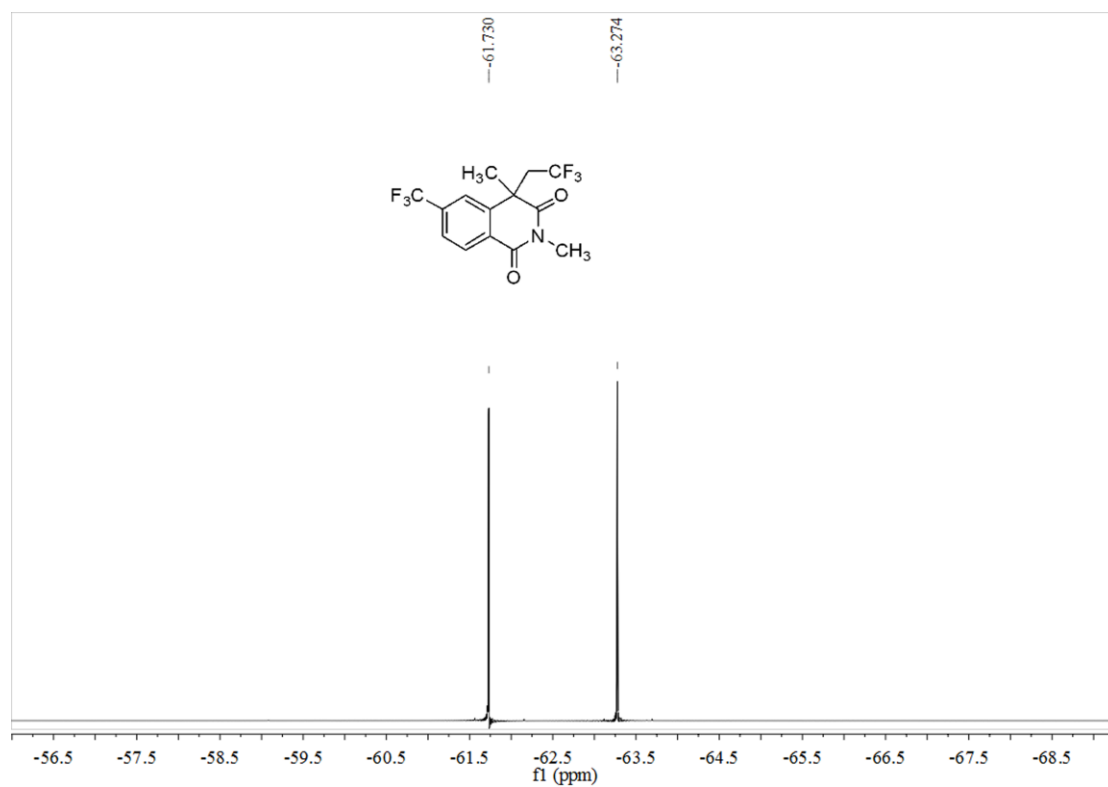
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **5e** :



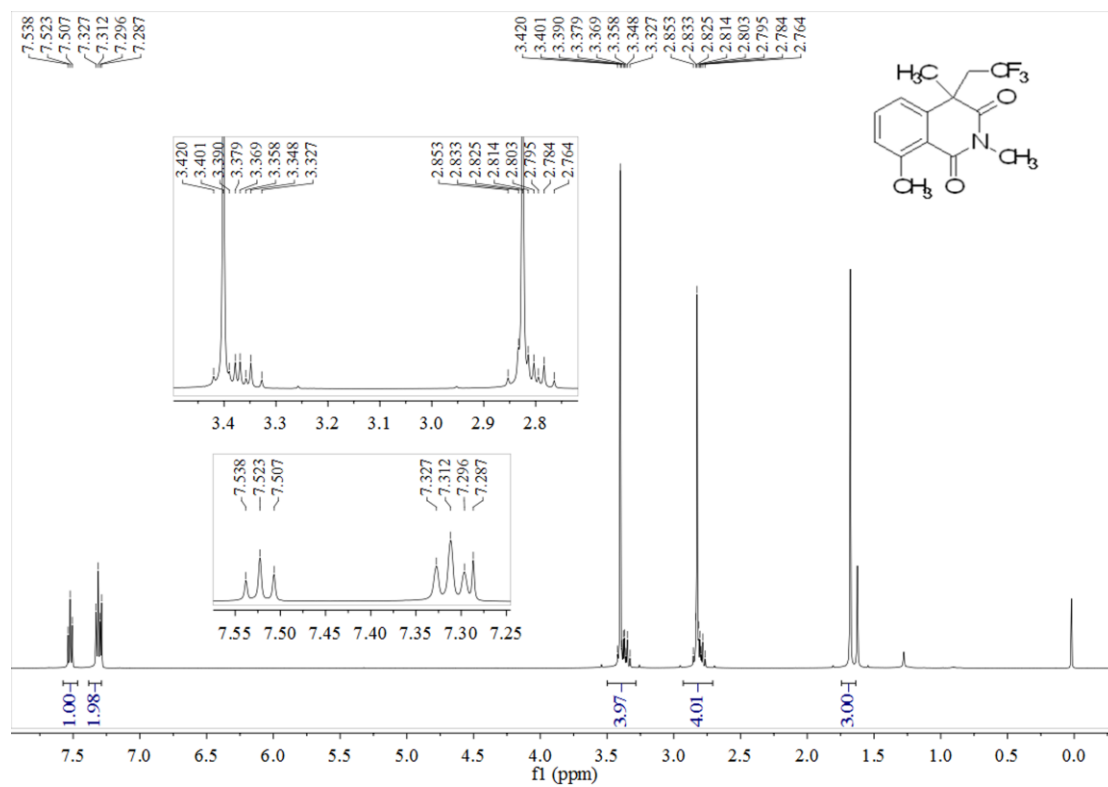


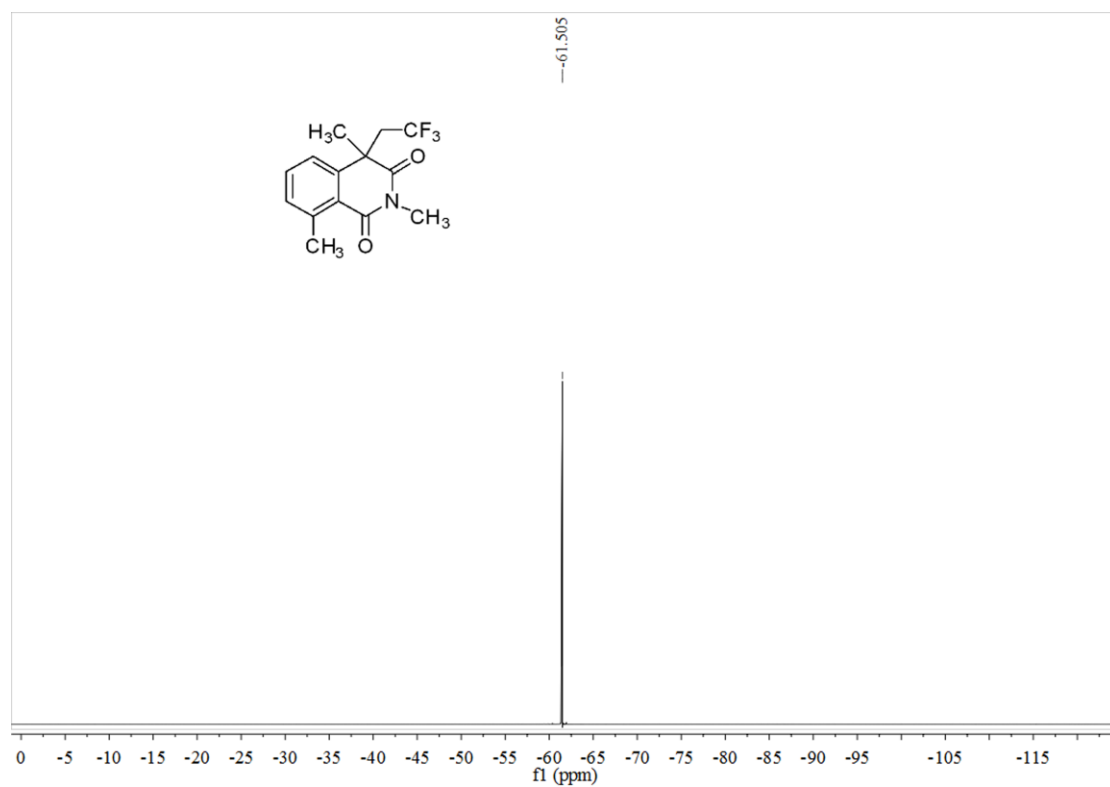
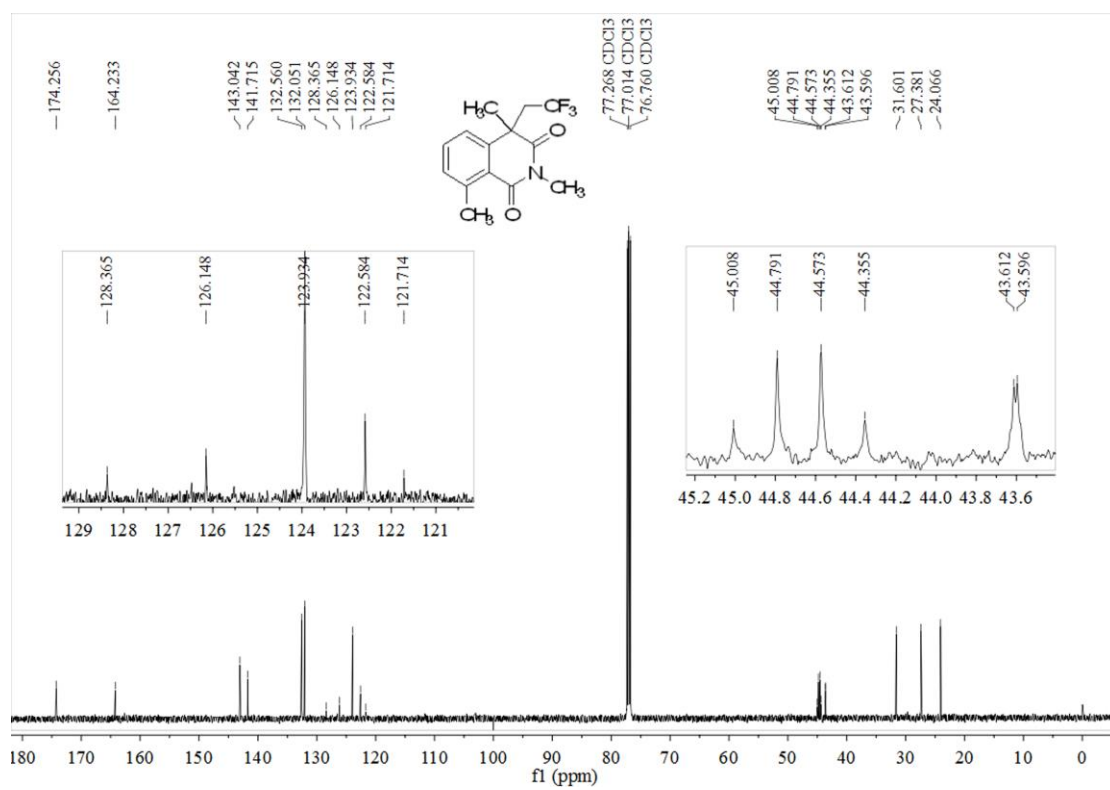
¹H NMR, ¹³C NMR and ¹⁹F NMR spectra of compound **5f** :



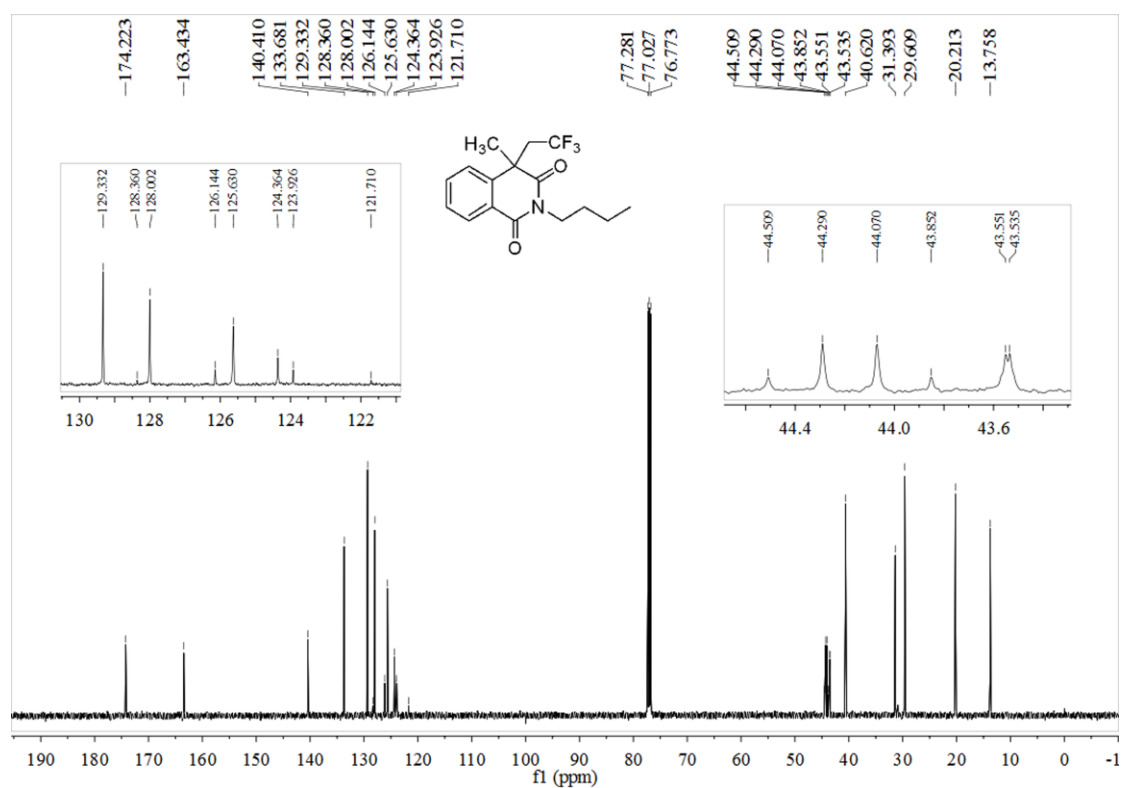
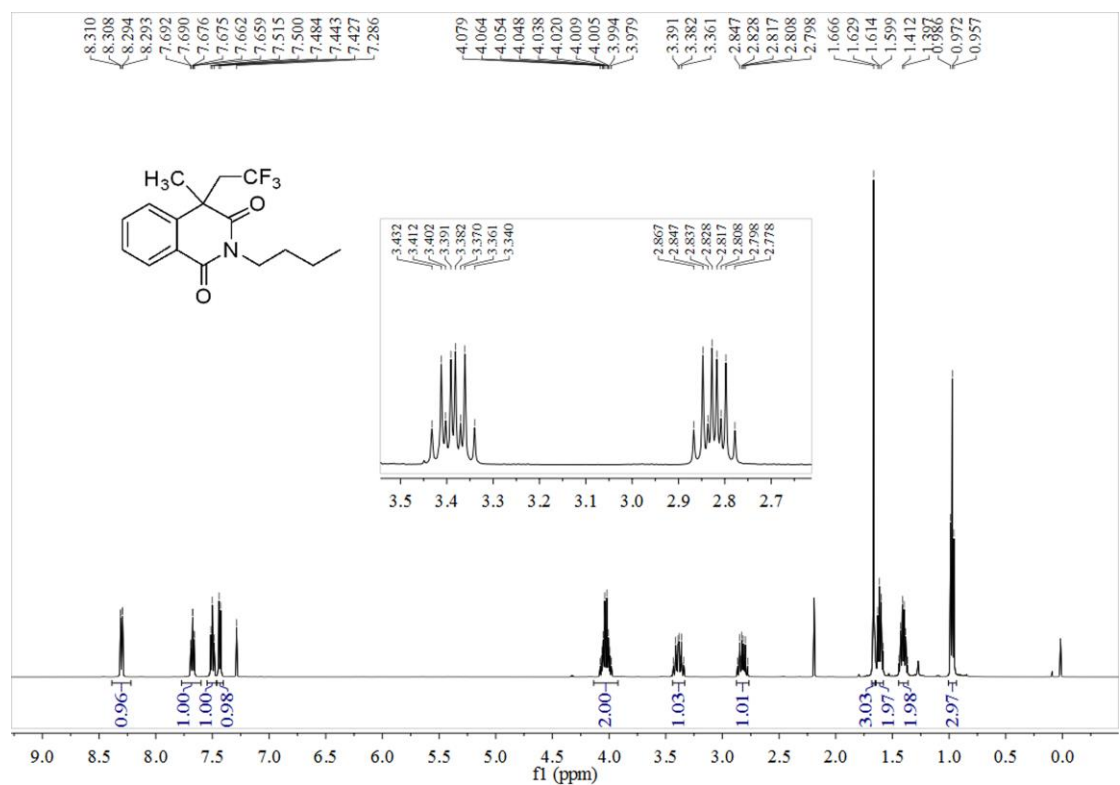


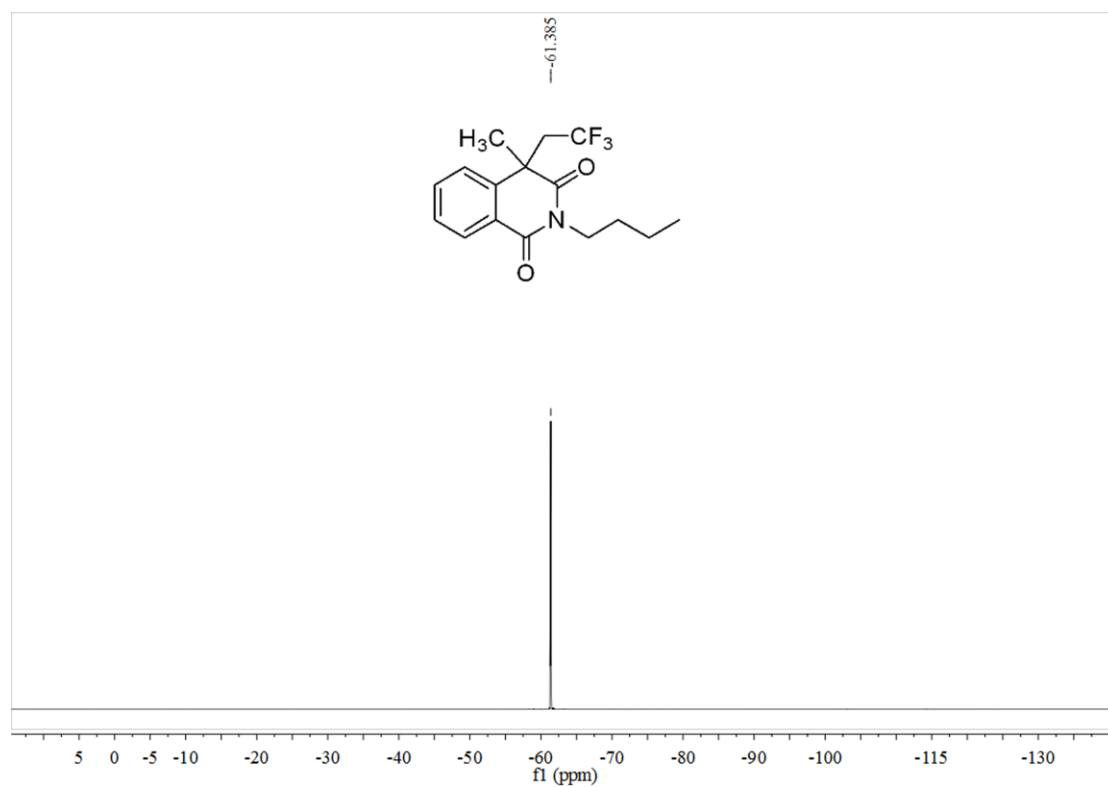
^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **5g** :





^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **5h** :





^1H NMR, ^{13}C NMR and ^{19}F NMR spectra of compound **5i** :

