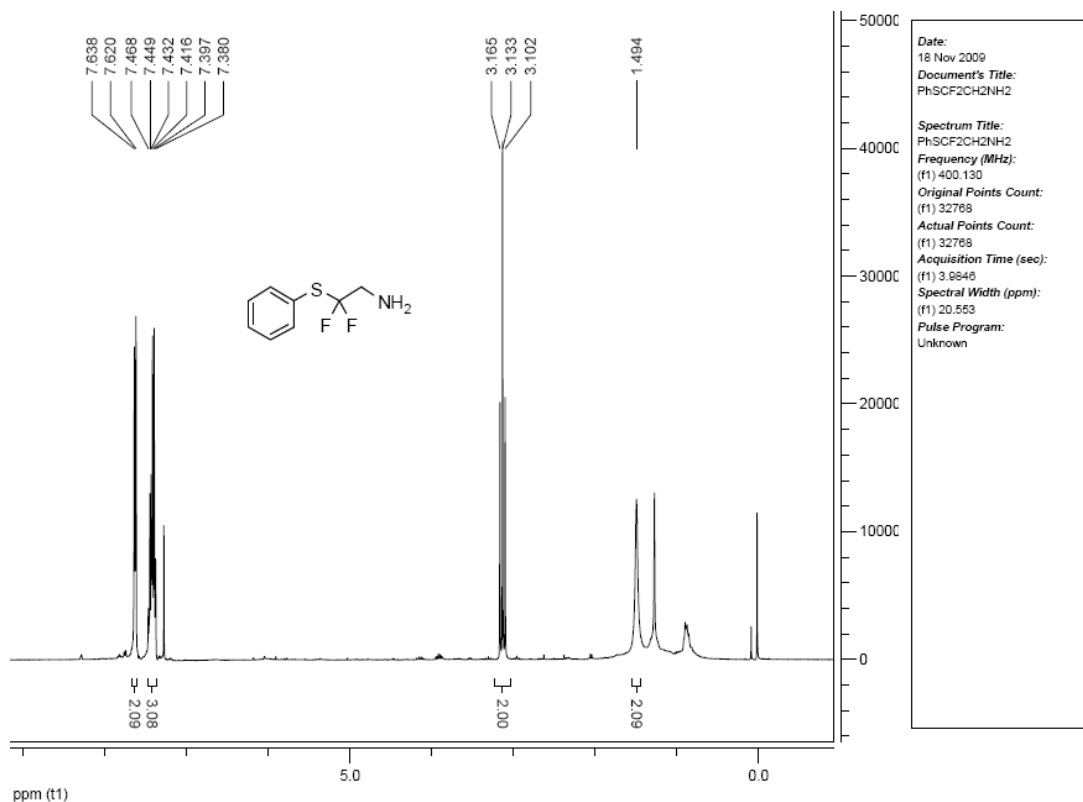


# **A General Strategy for Construction of Difluoromethyl Compound Library and its Application in Synthesis of Pseudopeptides having Terminal Difluoromethyl Group**

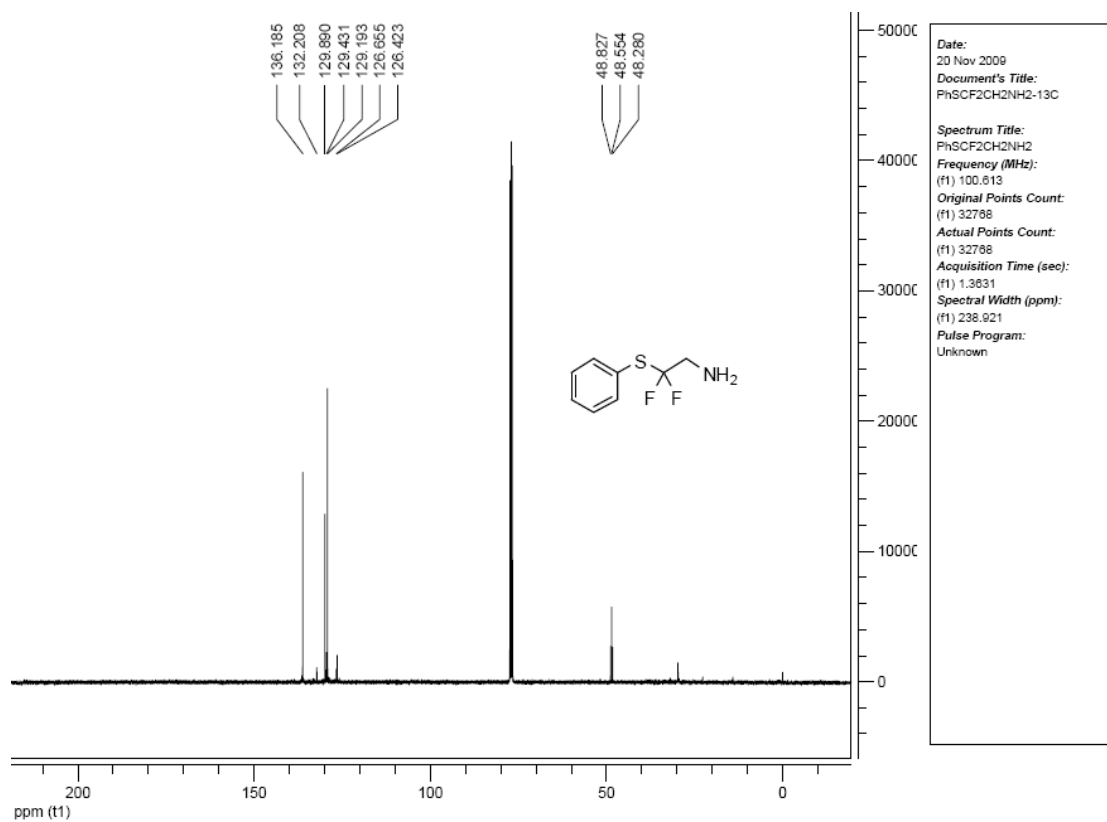
Jingjing Wu, Song Cao,\* Nianjin Liu, Li Shen, Jinlong Yu, Jian Zhang, Hui Li and Xuhong Qian

*Shanghai Key Laboratory of Chemical Biology, Center of Fluorine Chemical Technology, School of Pharmacy, East China University of Science and Technology, Shanghai, 200237, China*

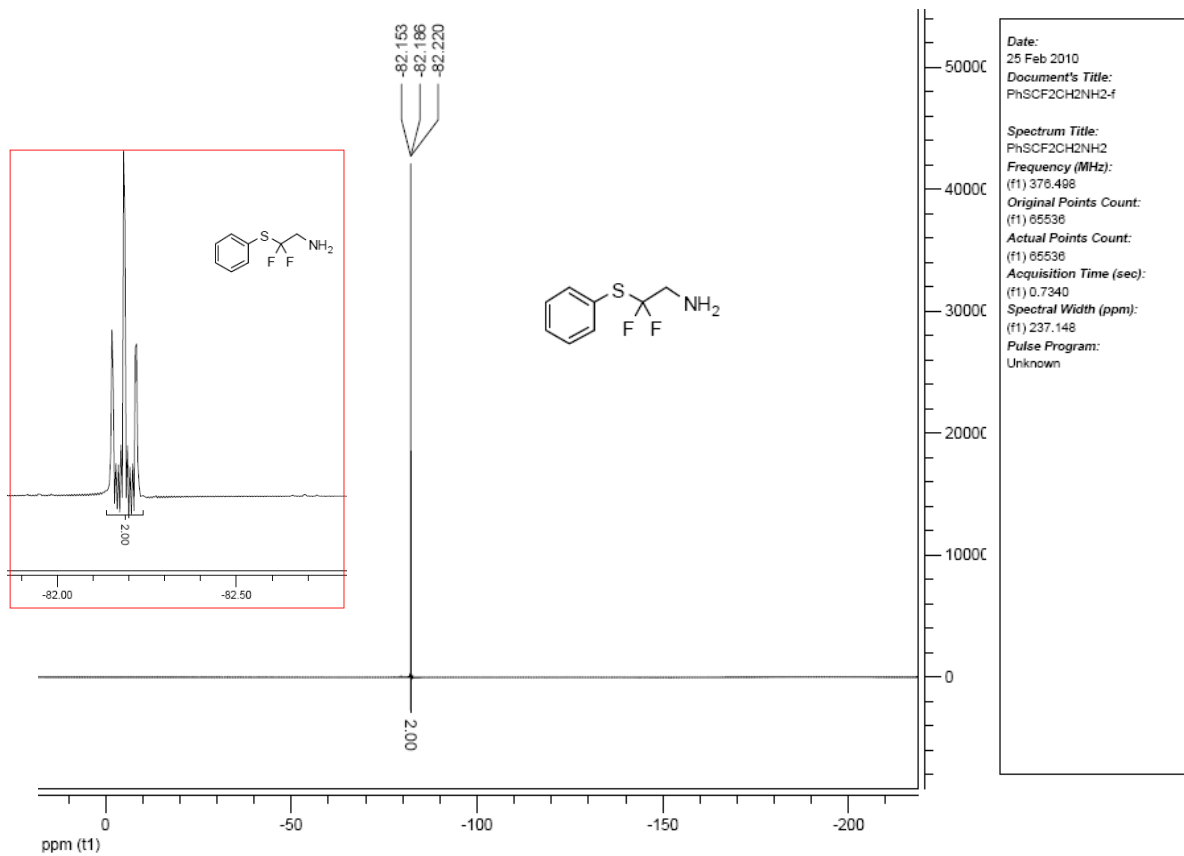
### <sup>1</sup>H NMR spectra of **3**



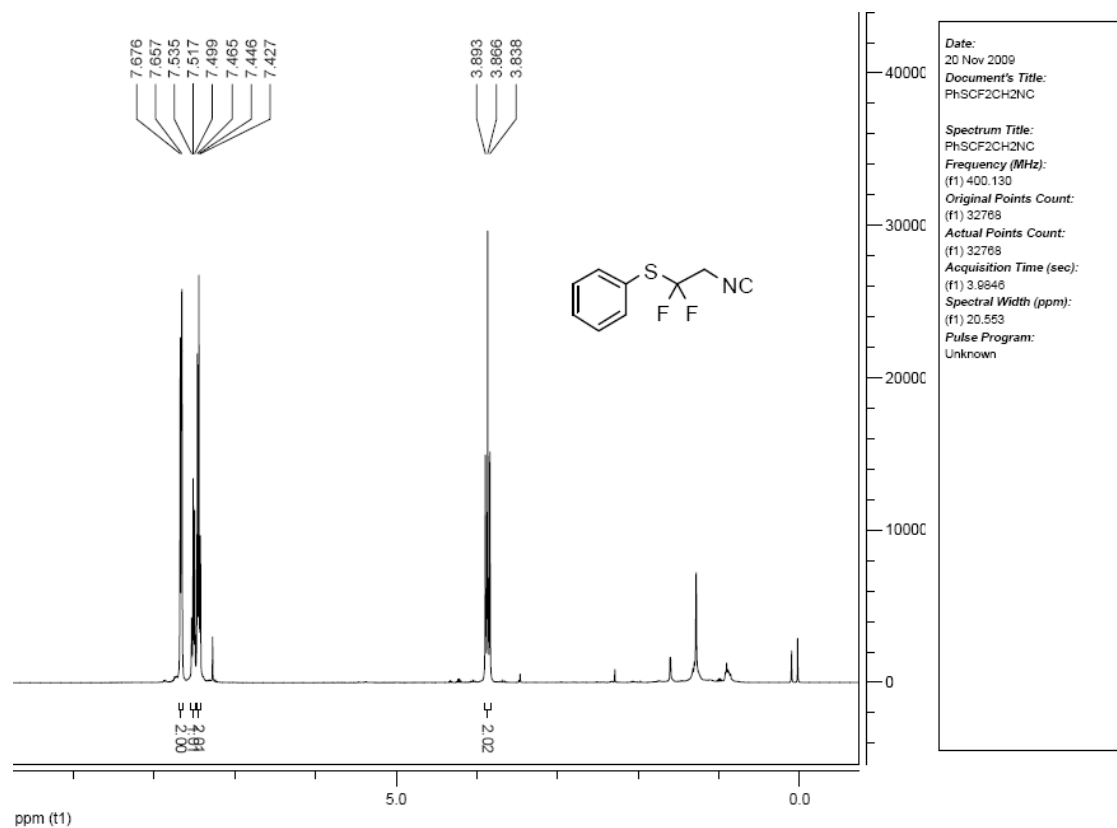
### <sup>13</sup>C NMR spectra of **3**



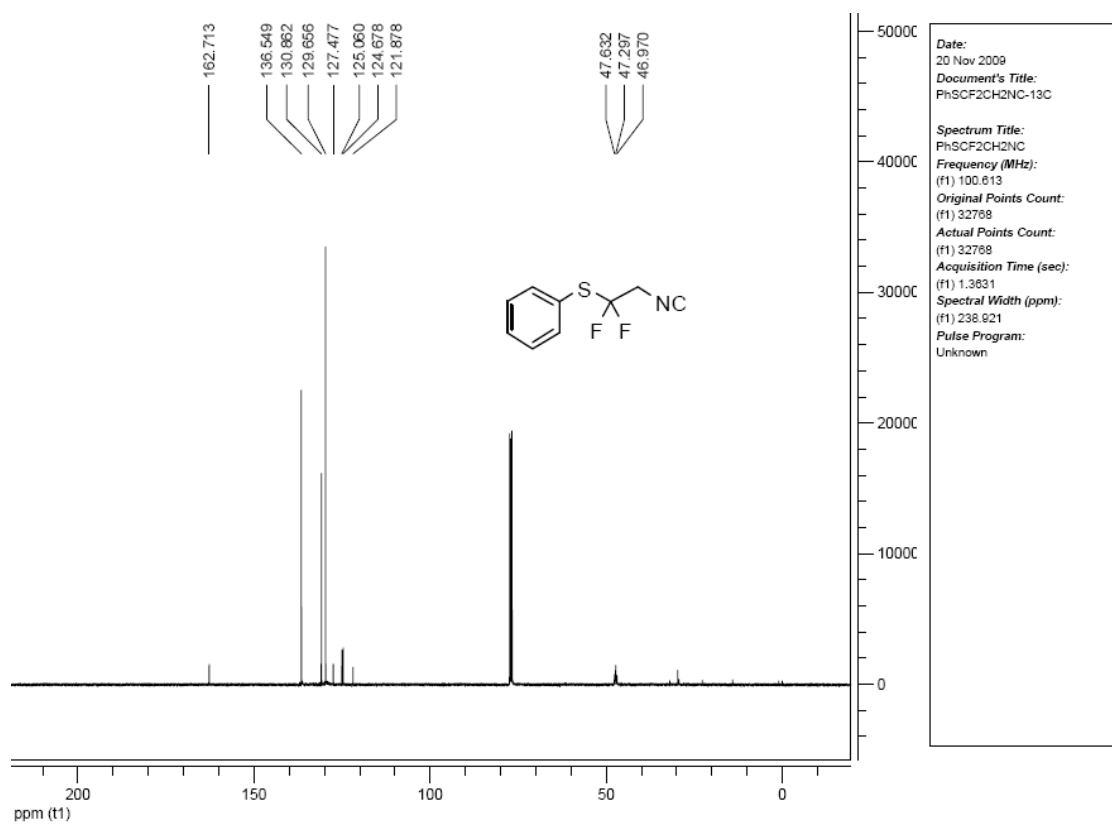
<sup>19</sup>F NMR spectra of **3**



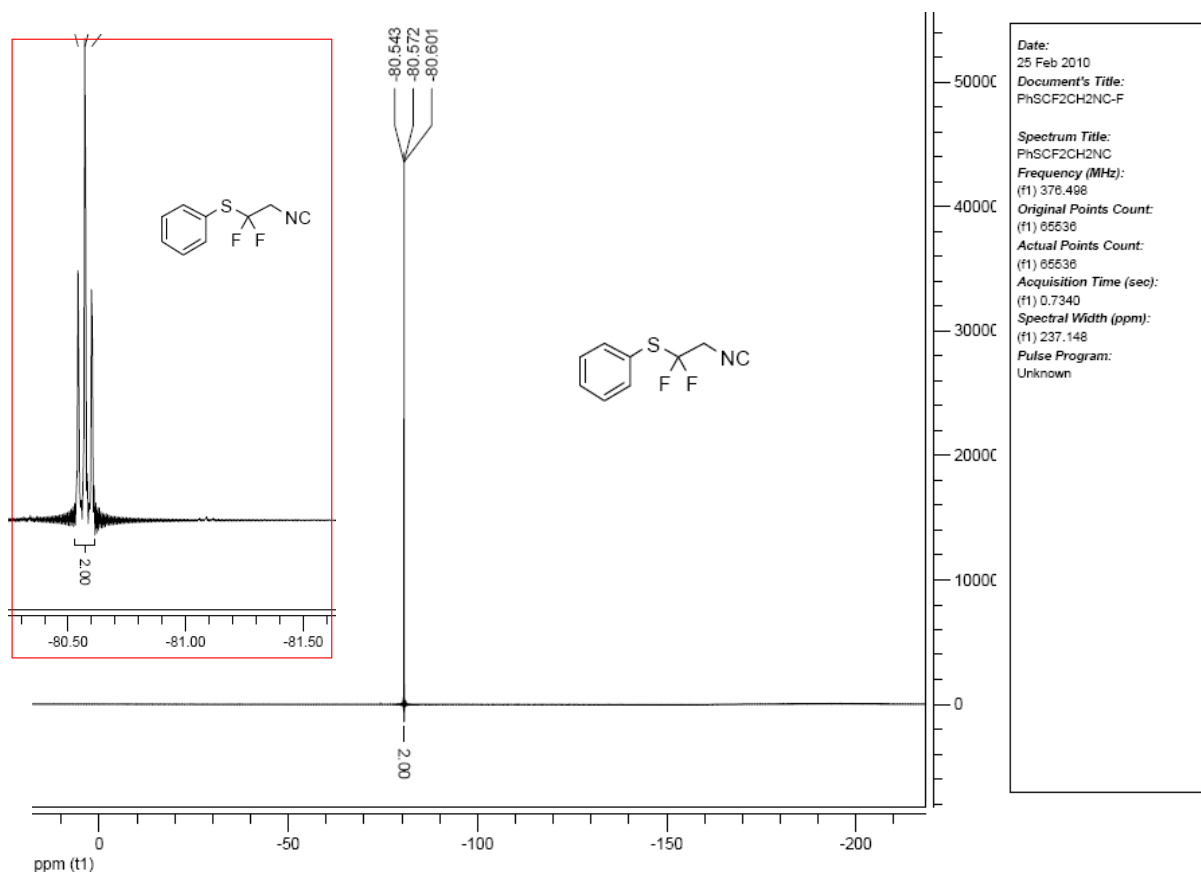
### <sup>1</sup>H NMR spectra of **4**



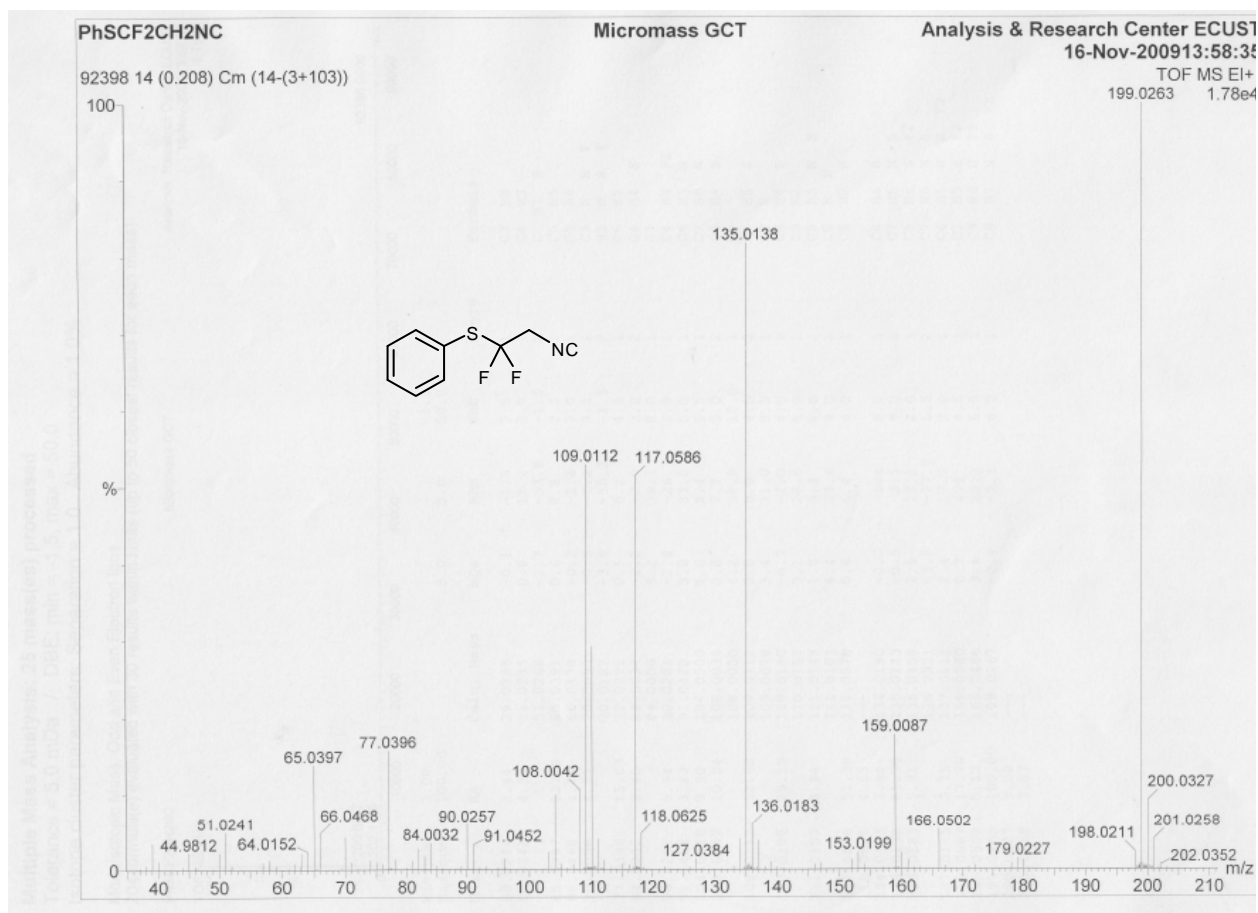
### <sup>13</sup>C NMR spectra of **4**



### $^{19}\text{F}$ NMR spectra of **4**

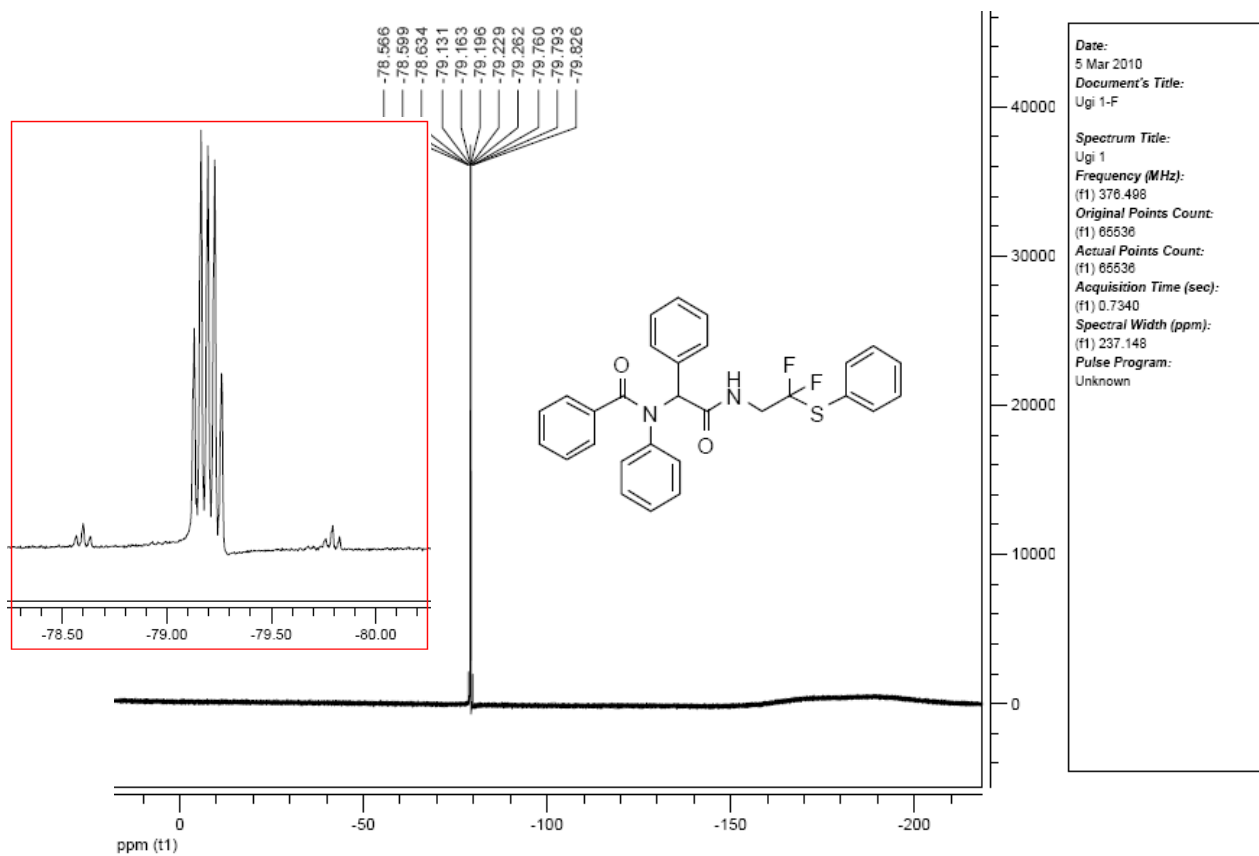


### HRMS (ESI) spectra of **4**

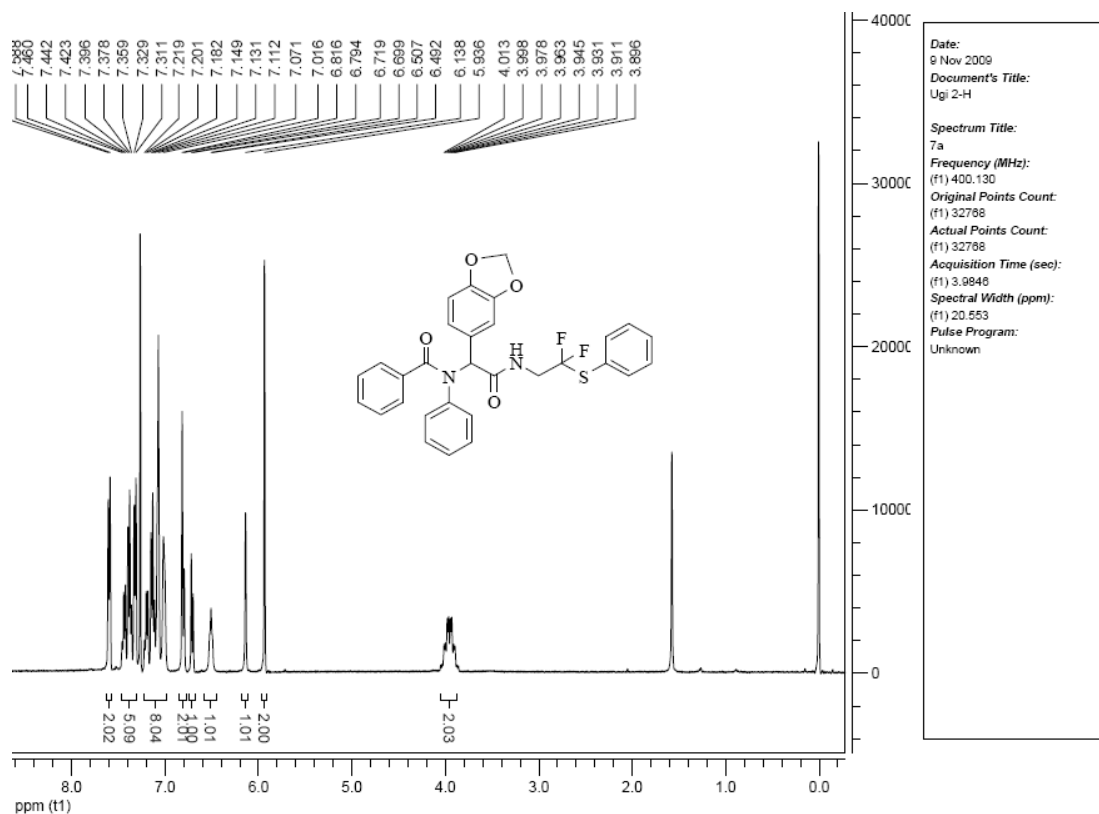




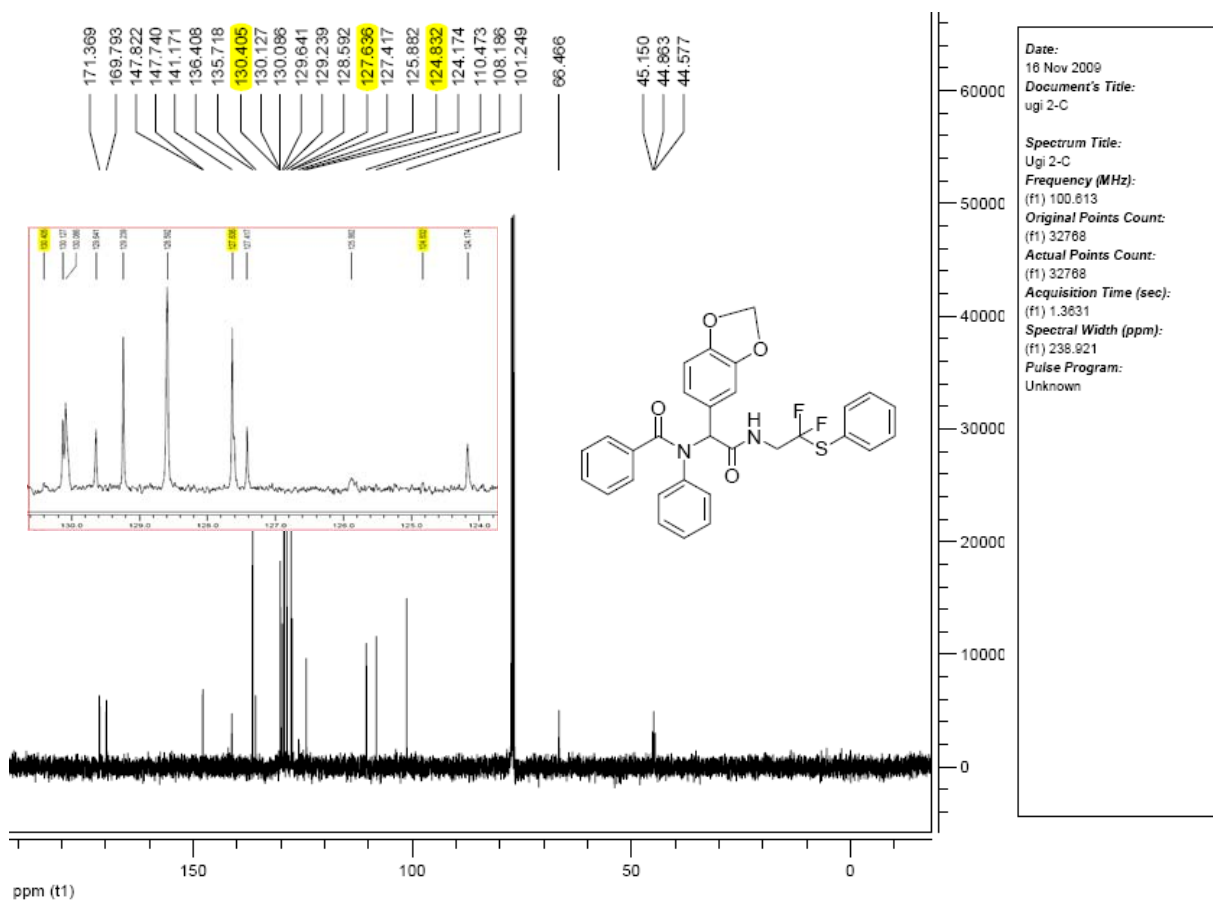
$^{19}\text{F}$  NMR spectra of **5a**



<sup>1</sup>H NMR spectra of **5b**

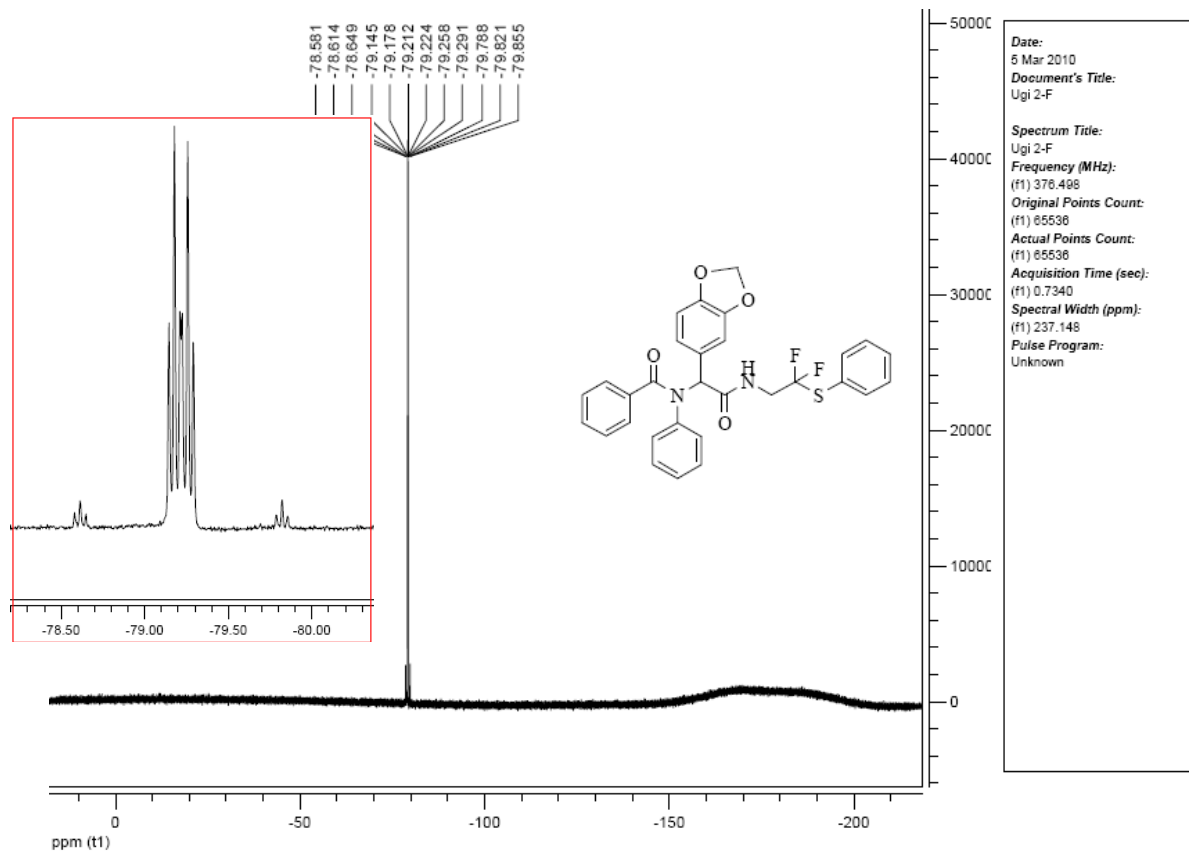


<sup>13</sup>C NMR spectra of **5b**

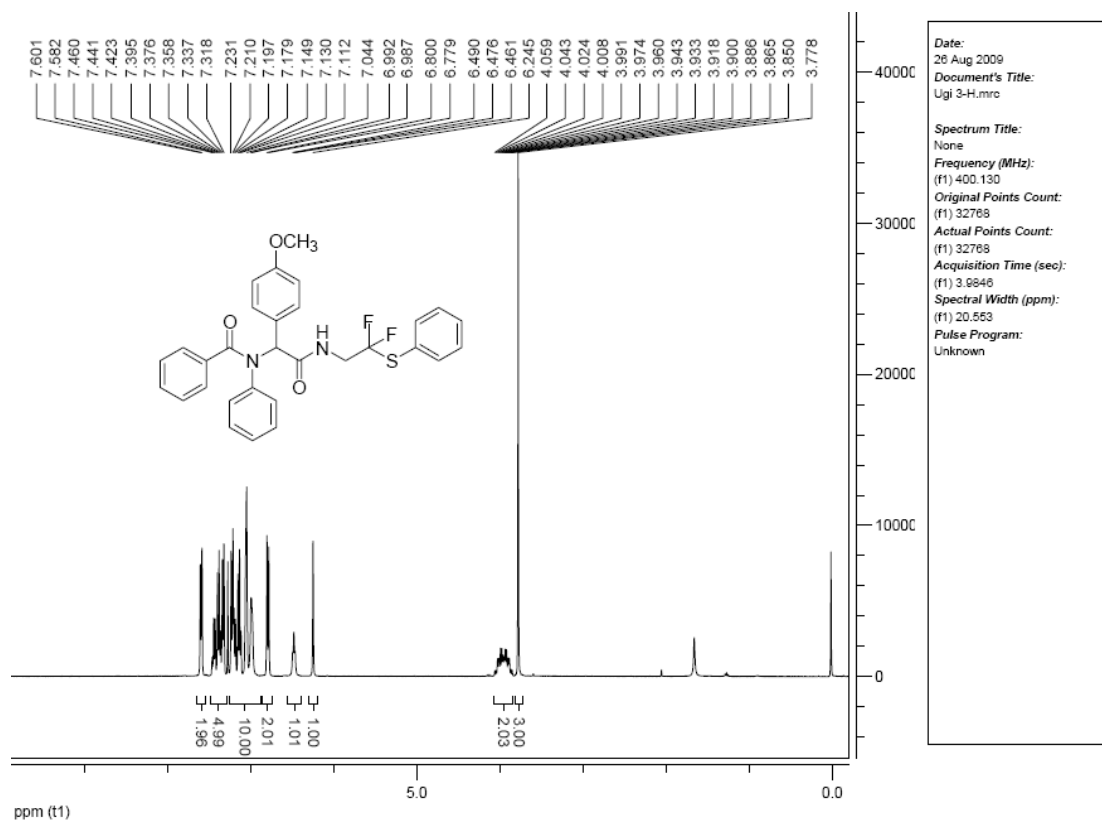




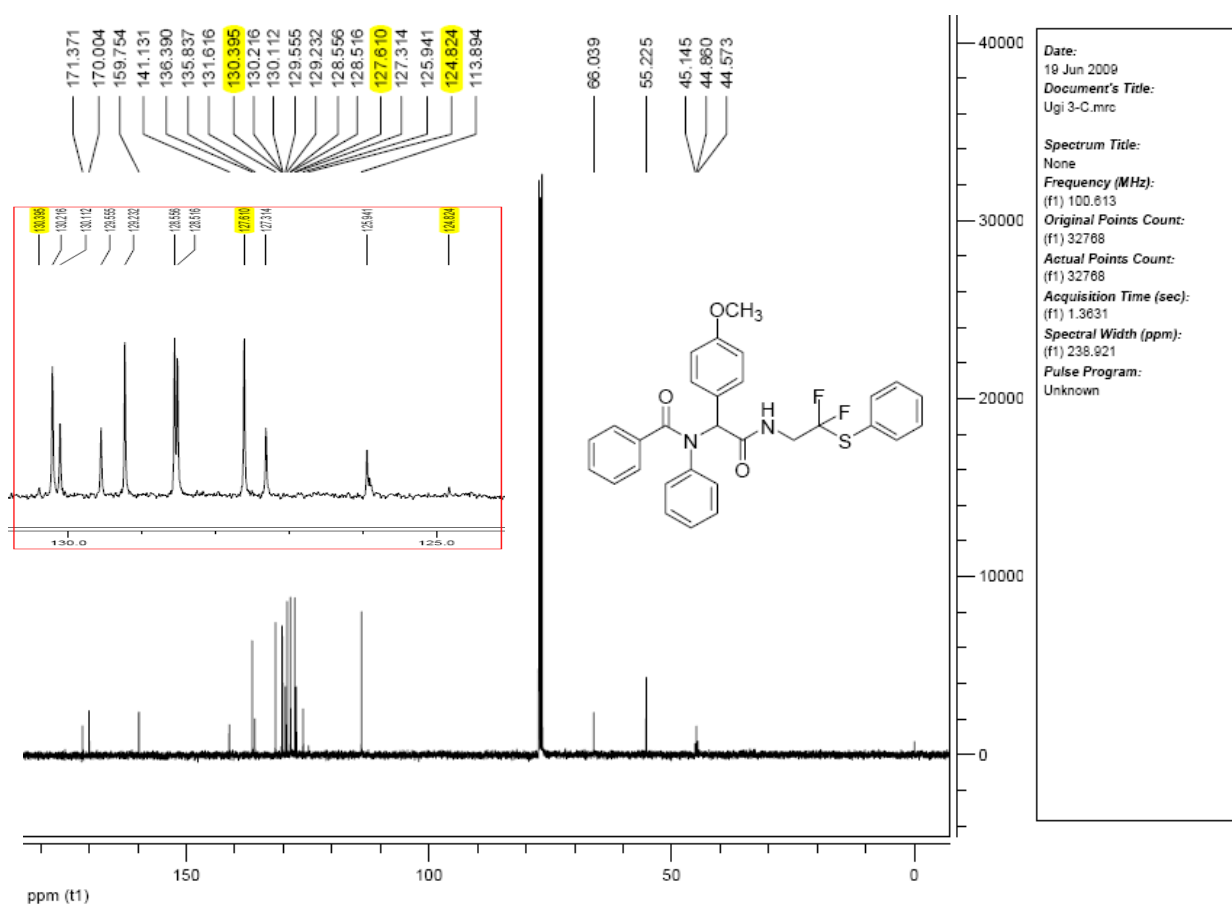
$^{19}\text{F}$  NMR spectra of **5b**



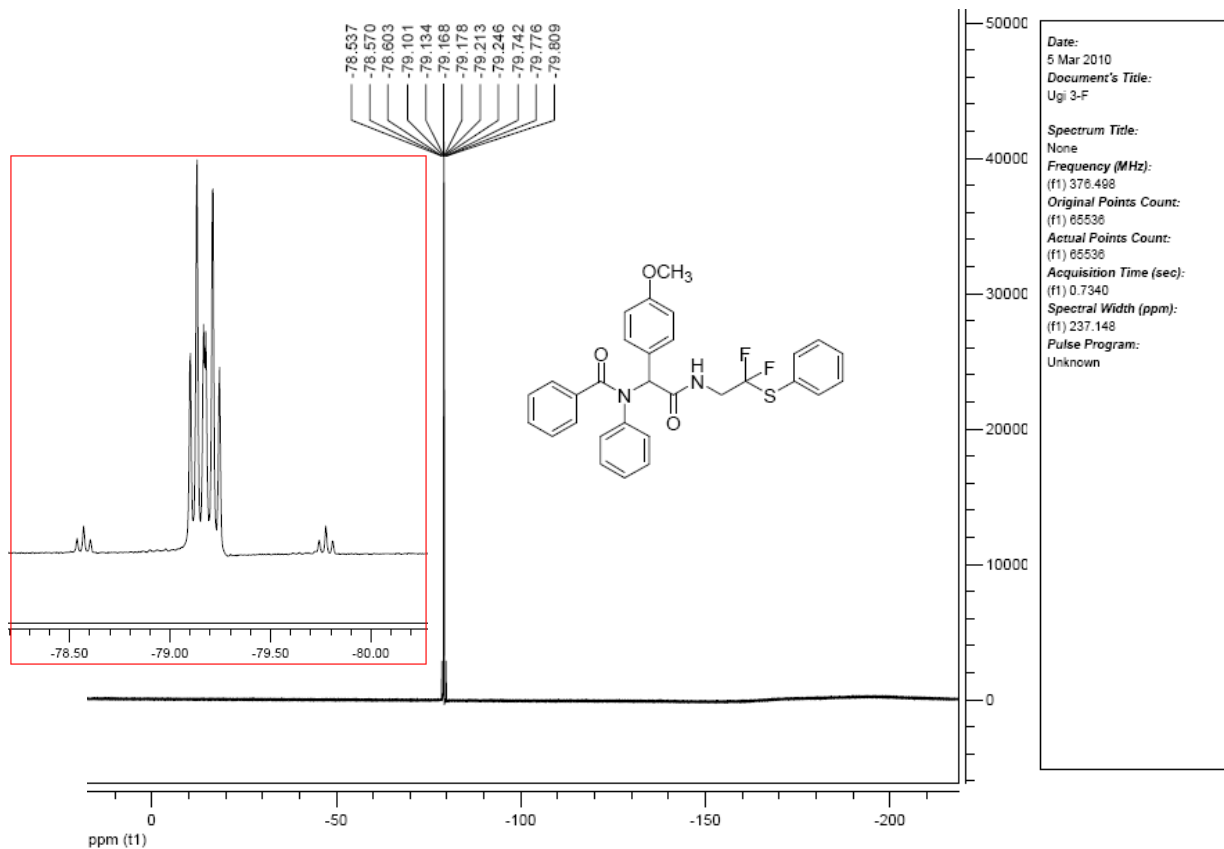
<sup>1</sup>H NMR spectra of **5c**



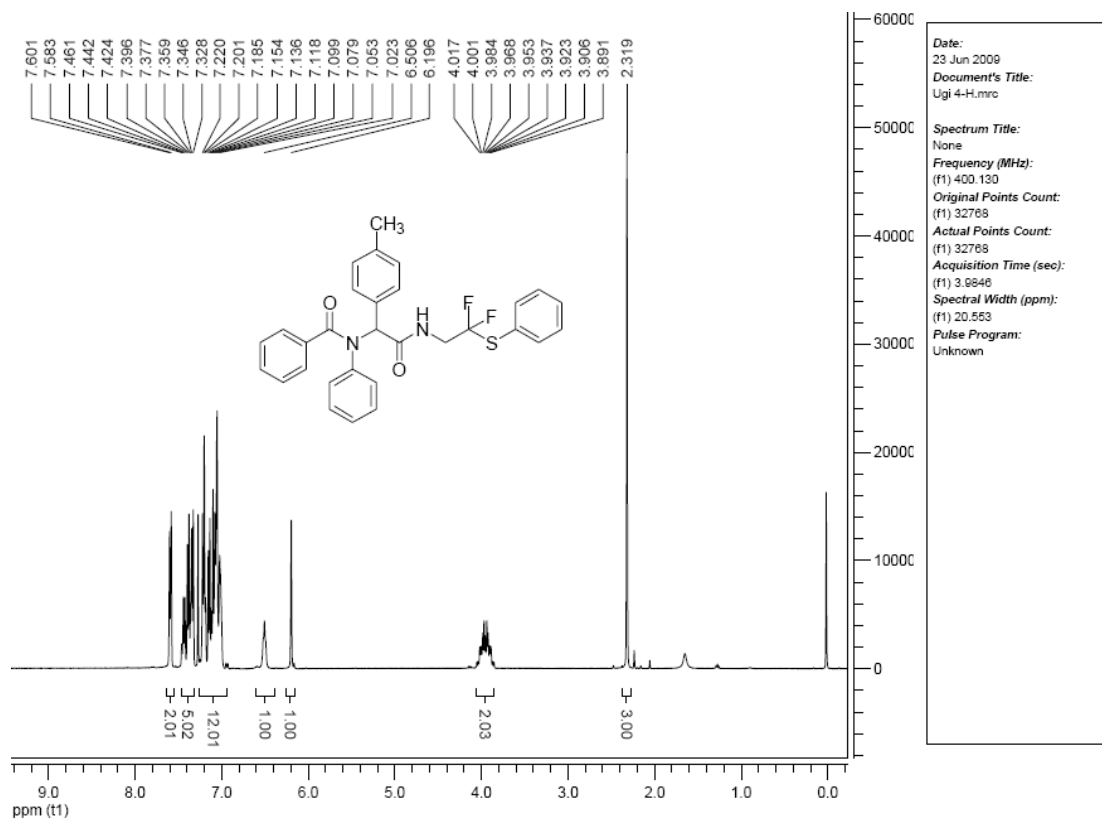
<sup>13</sup>C NMR spectra of **5c**



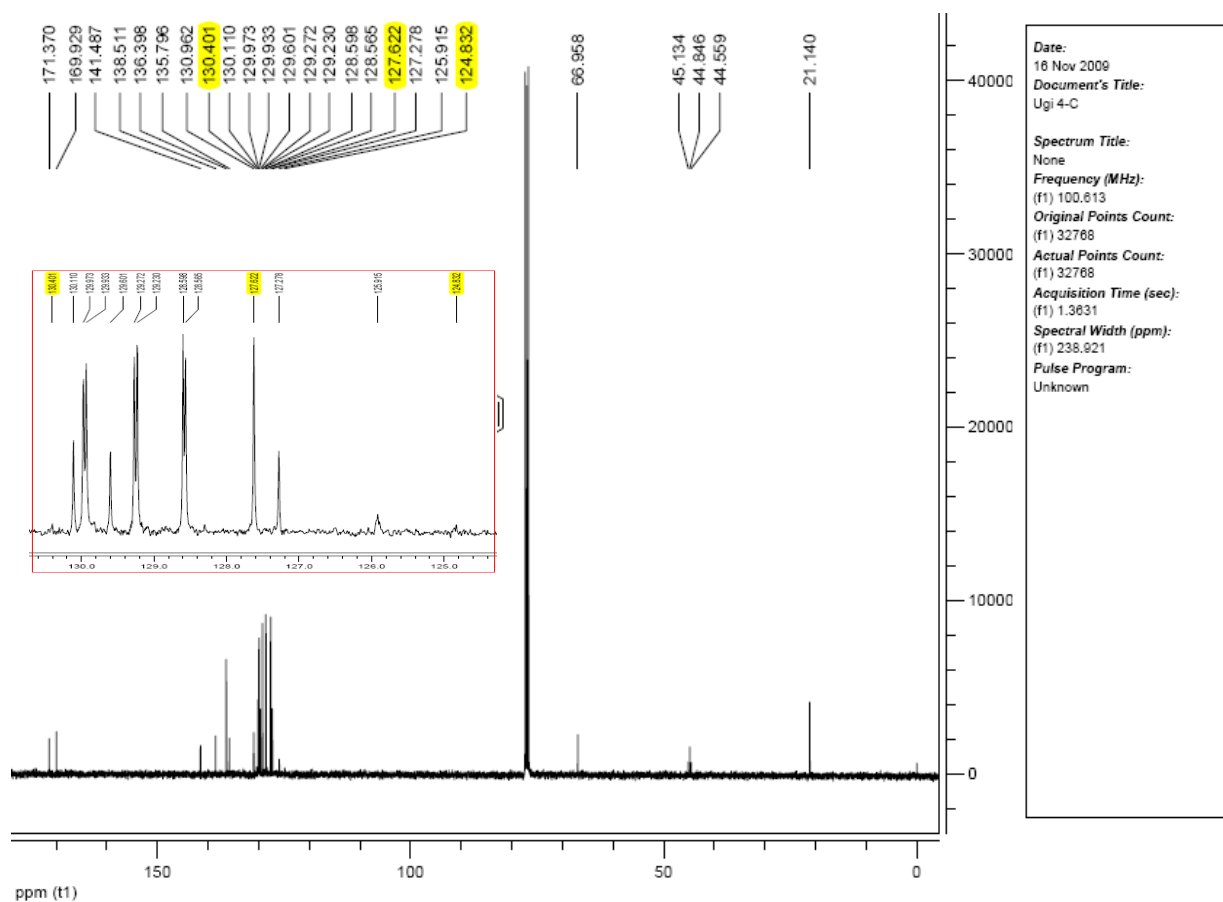
$^{19}\text{F}$  NMR spectra of **5c**



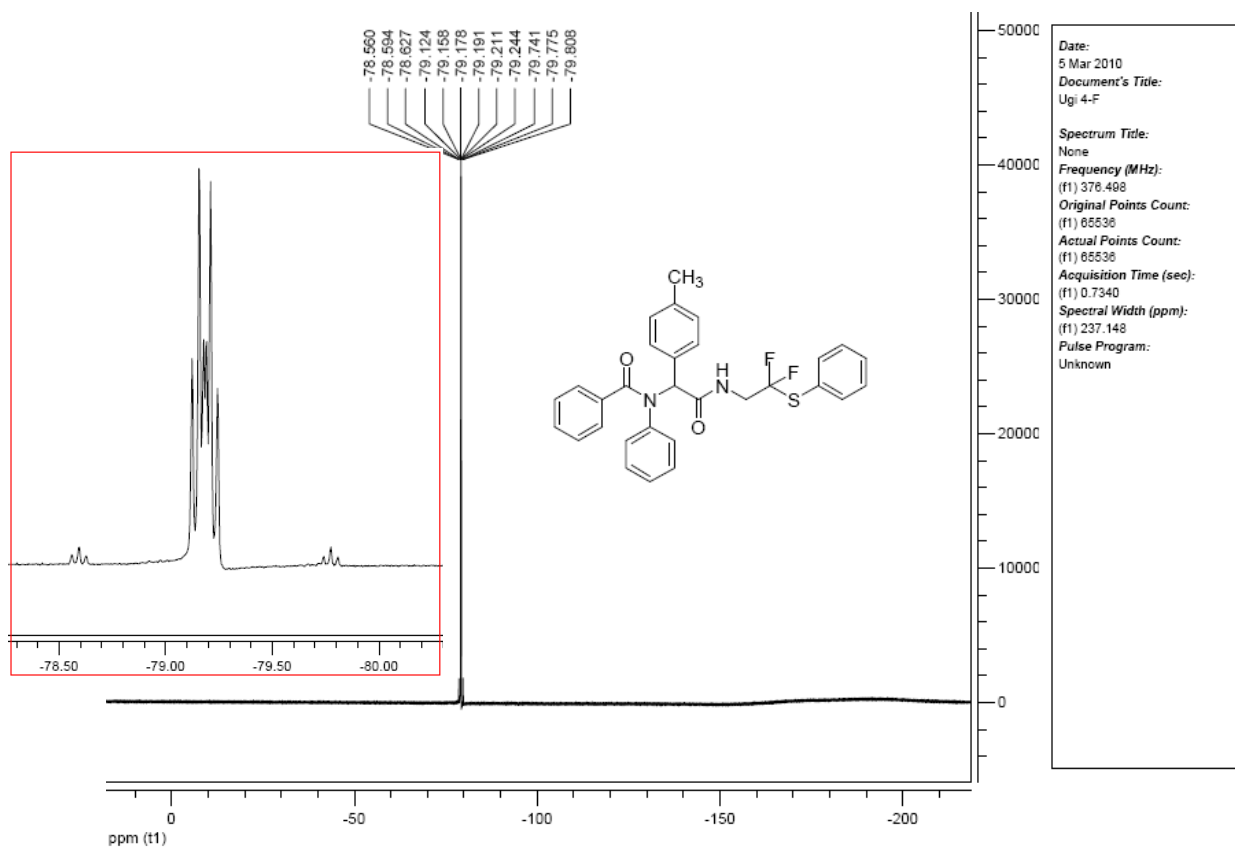
<sup>1</sup>H NMR spectra of **5d**



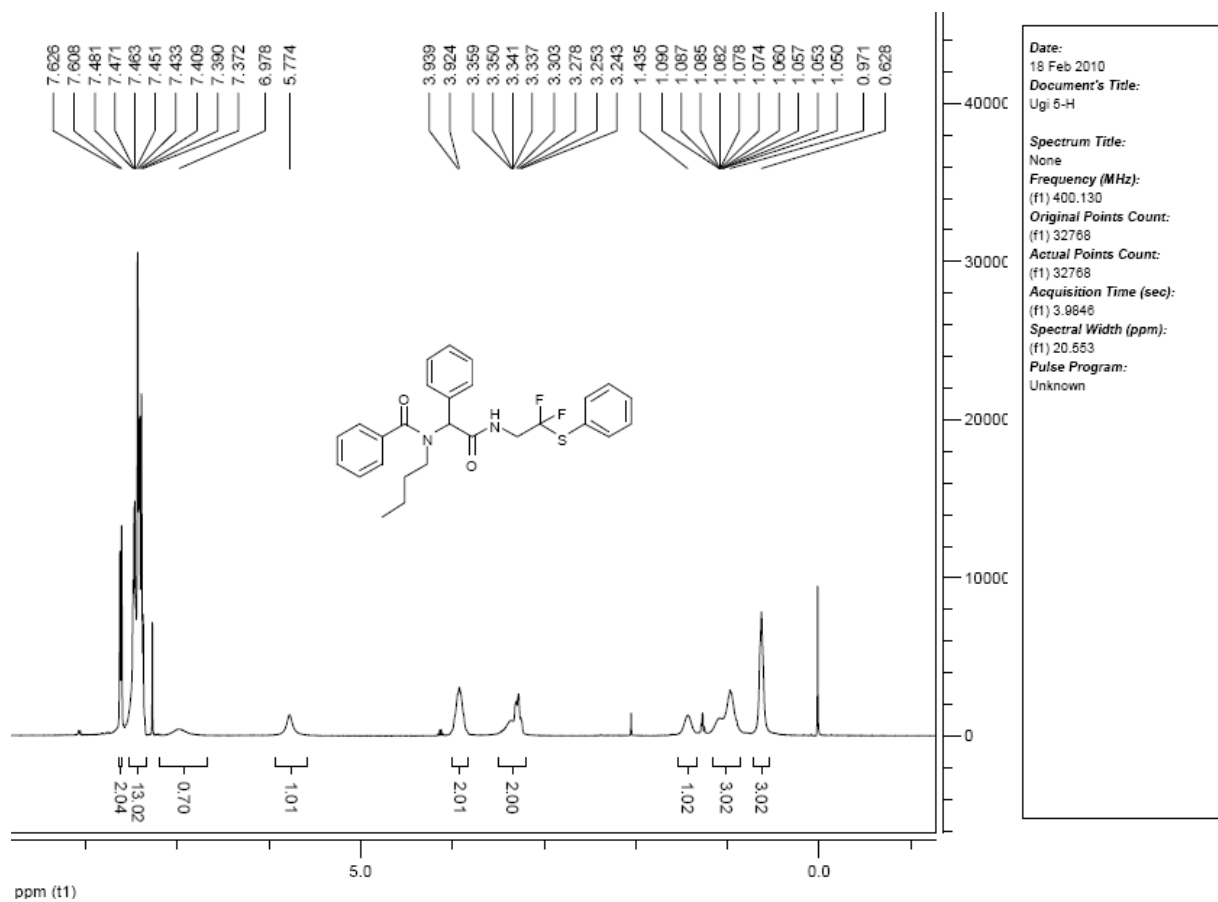
<sup>13</sup>C NMR spectra of **5d**



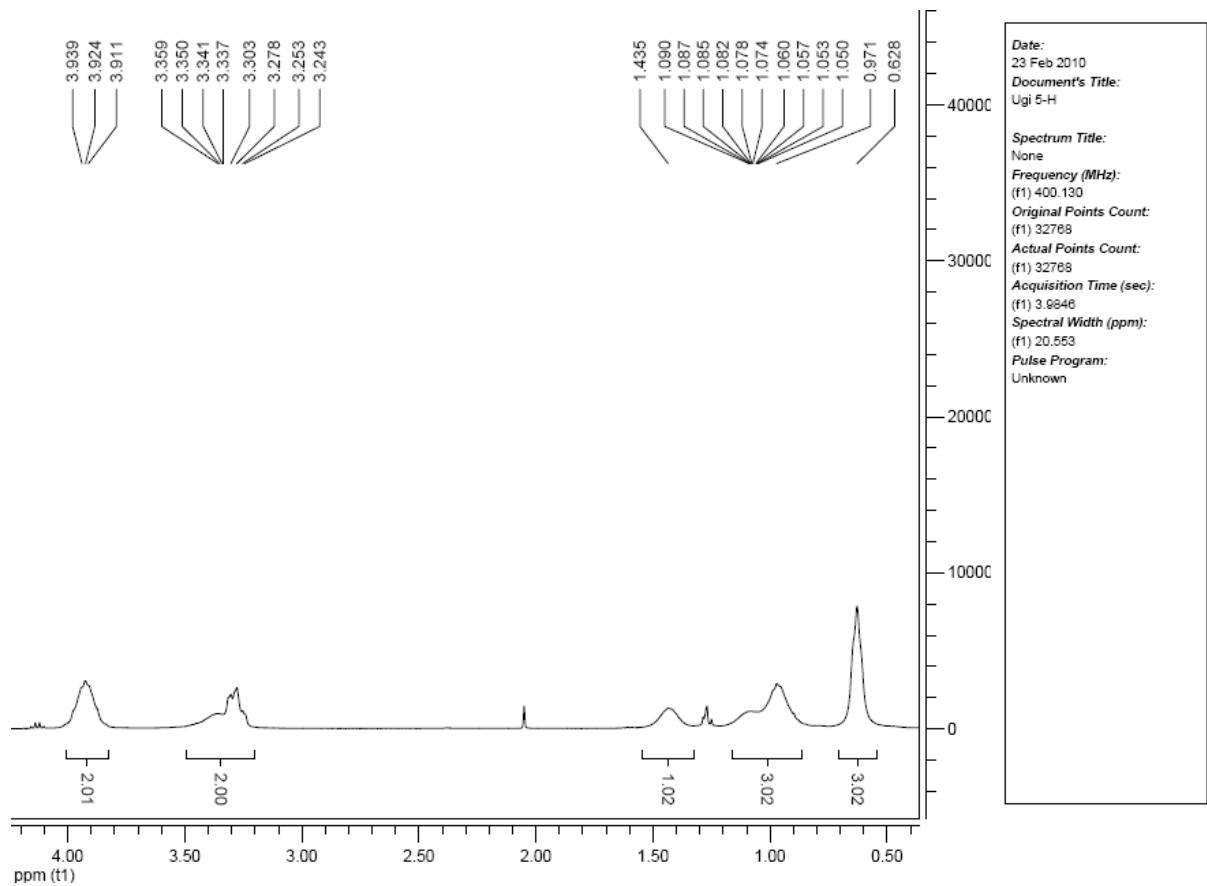
$^{19}\text{F}$  NMR spectra of **5d**



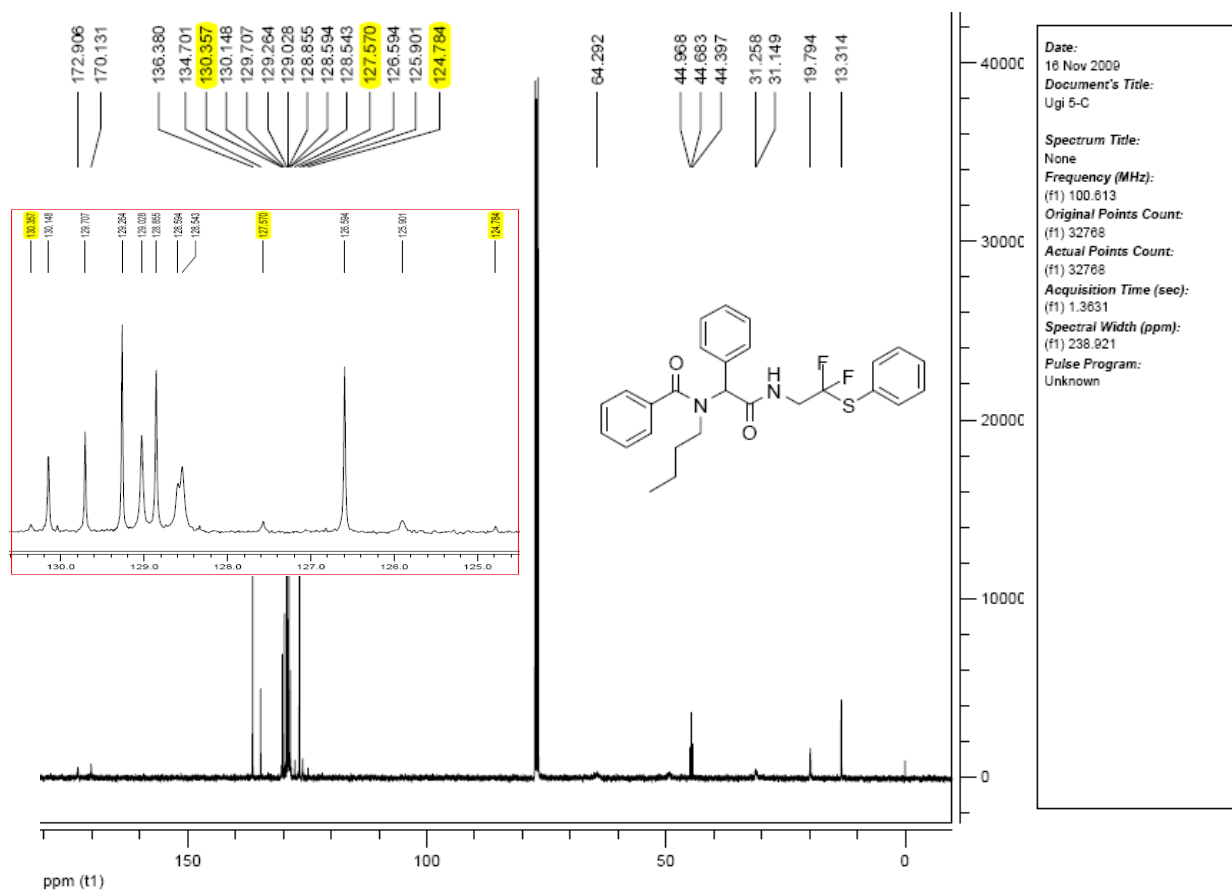
### $^1\text{H}$ NMR spectra of **5e**



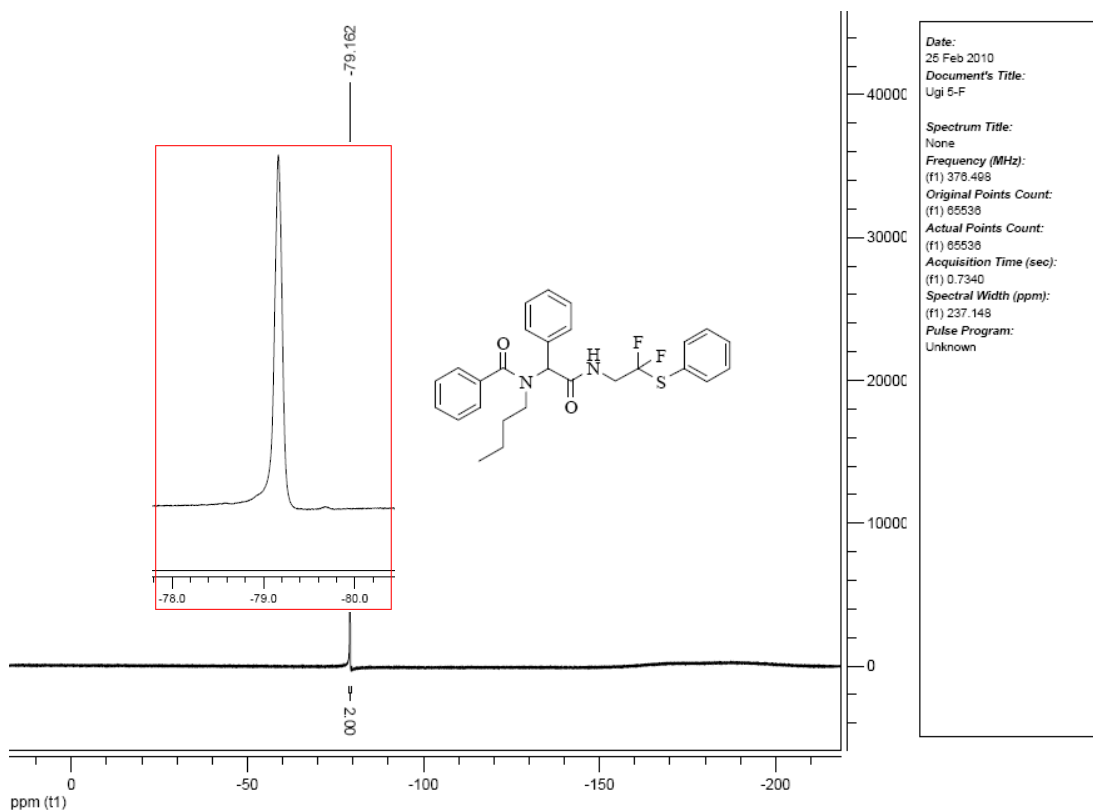
### partial enlargement of $^1\text{H}$ NMR spectra of **5e**



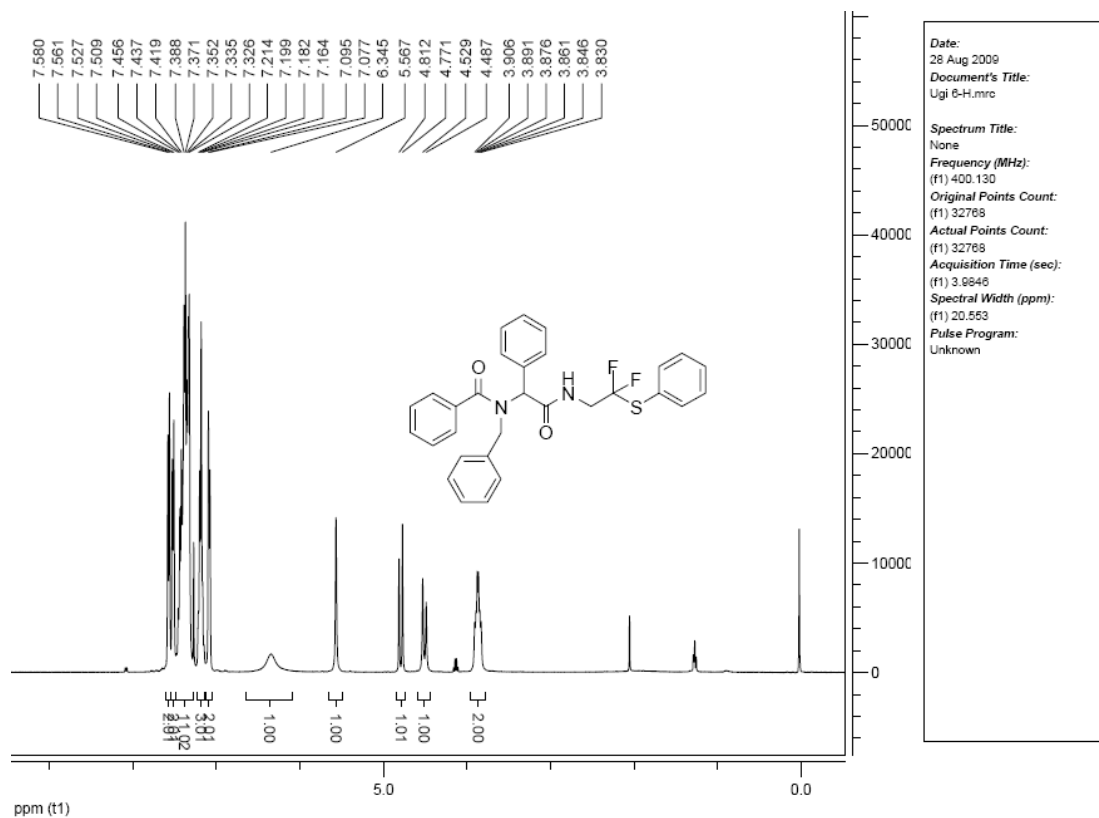
<sup>13</sup>C NMR spectra of **5e**



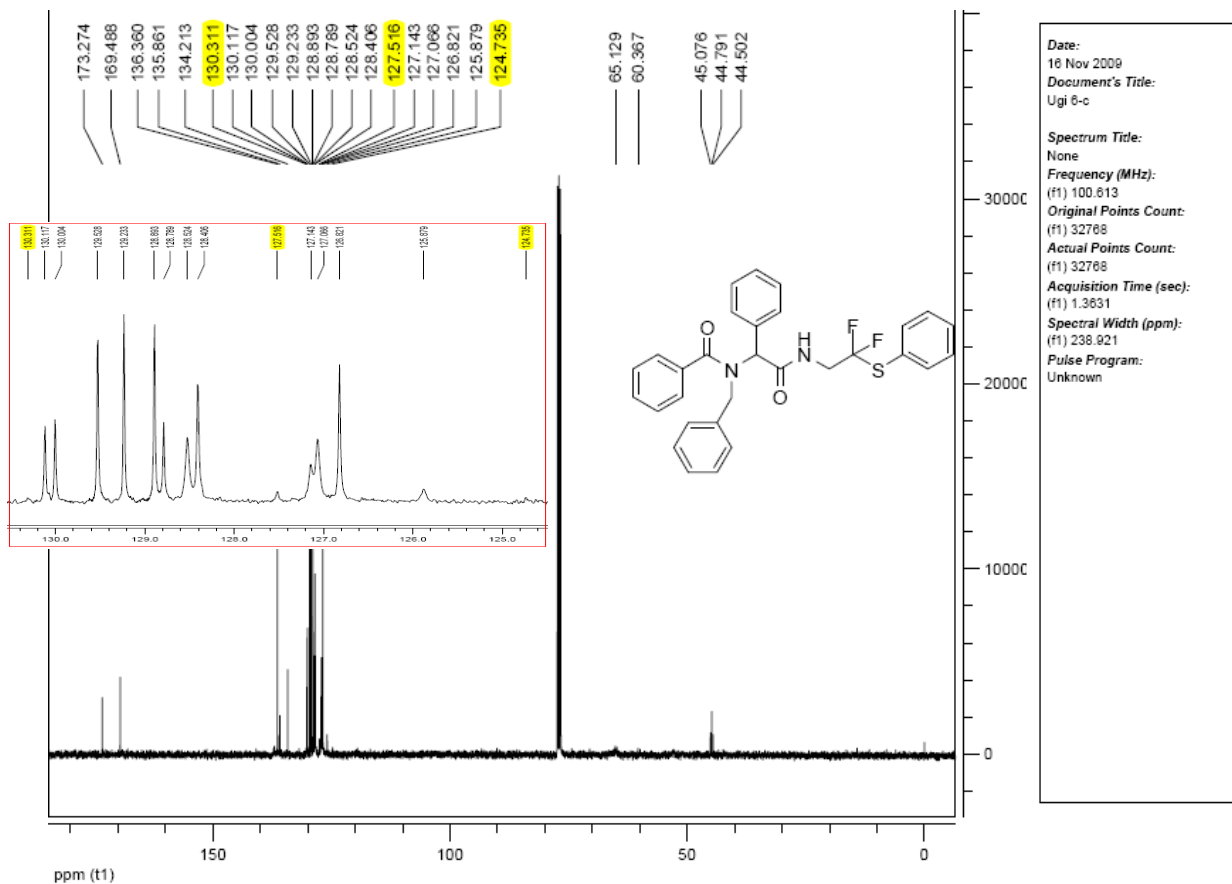
<sup>19</sup>F NMR spectra of **5e**



<sup>1</sup>H NMR spectra of **5f**

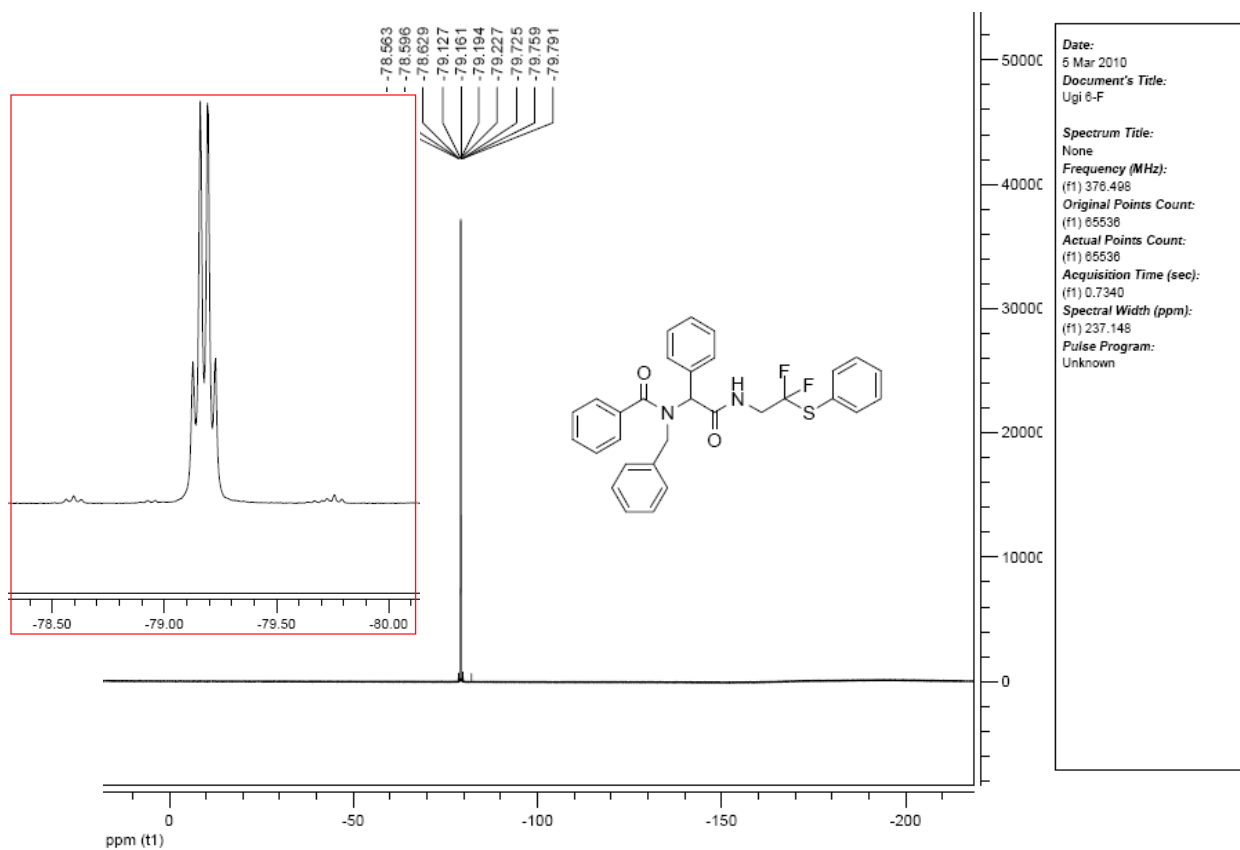


<sup>13</sup>C NMR spectra of **5f**

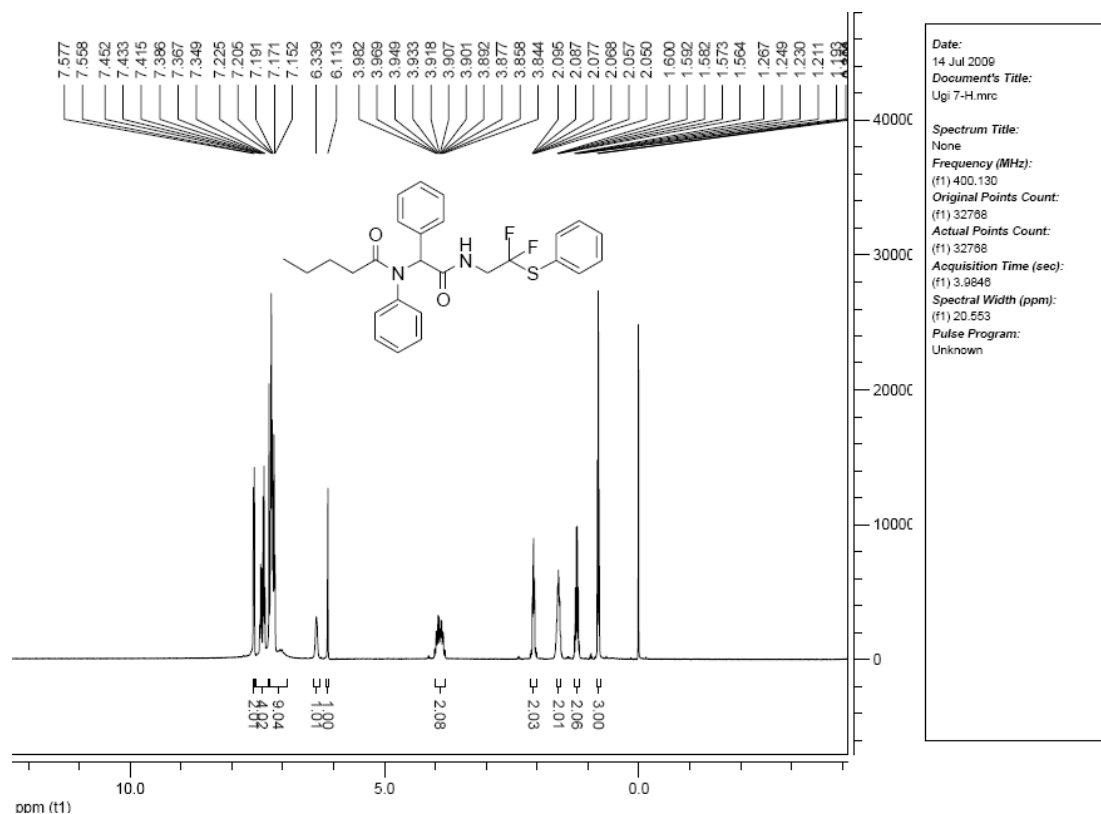




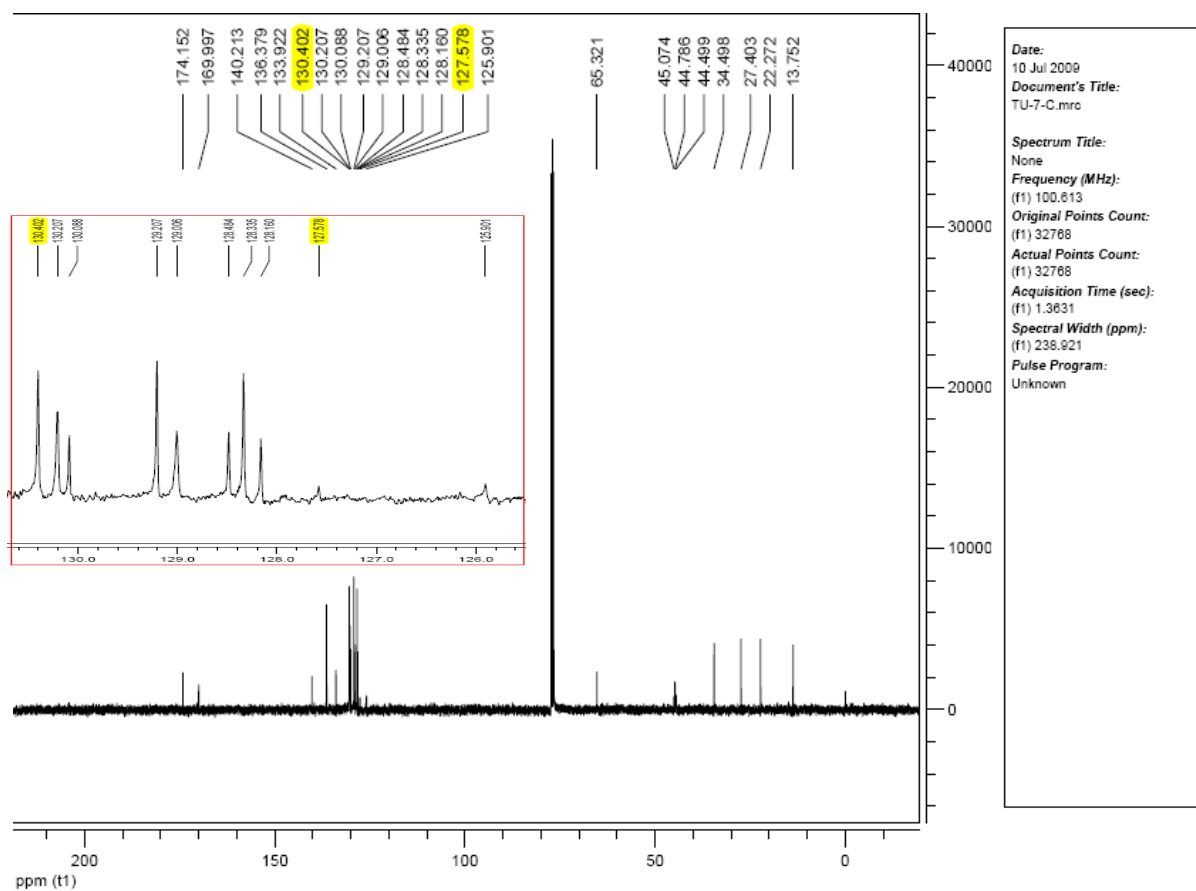
<sup>19</sup>F NMR spectra of **5f**



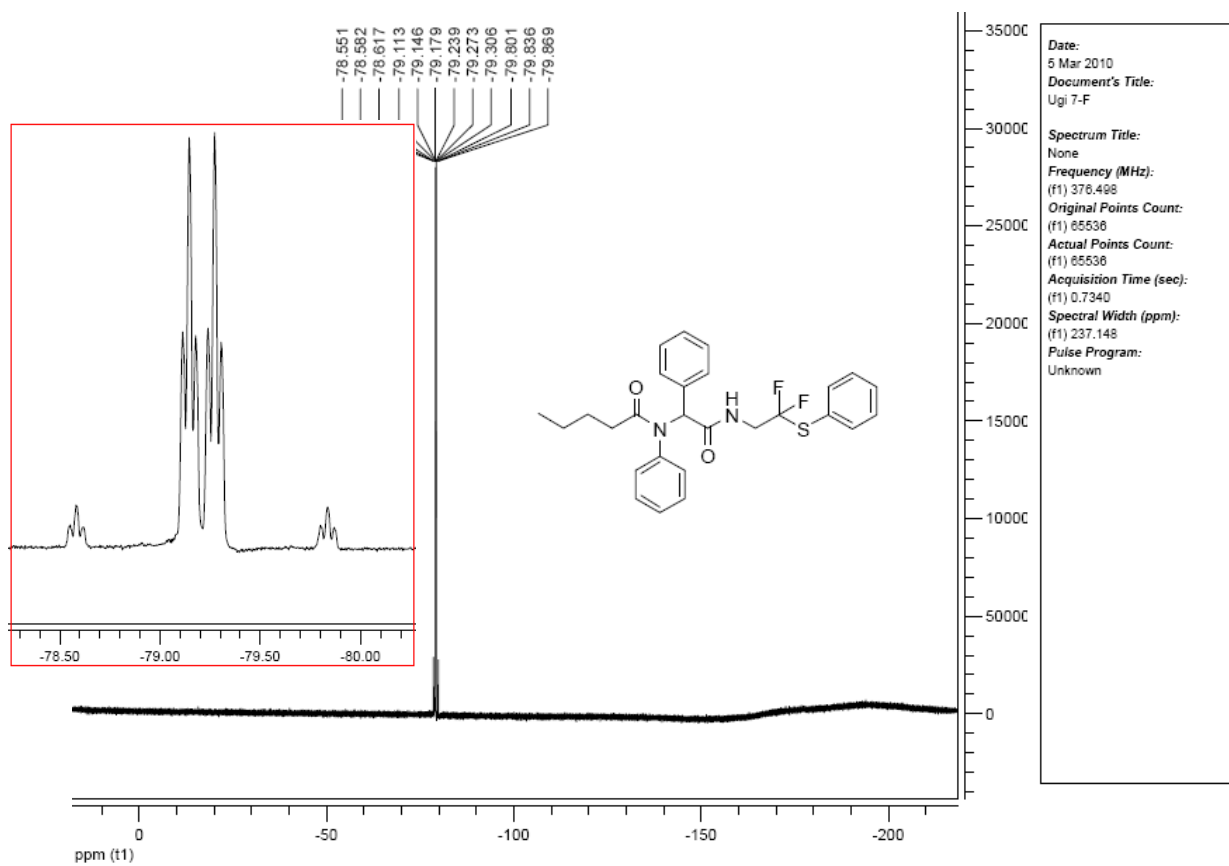
<sup>1</sup>H NMR spectra of **5g**



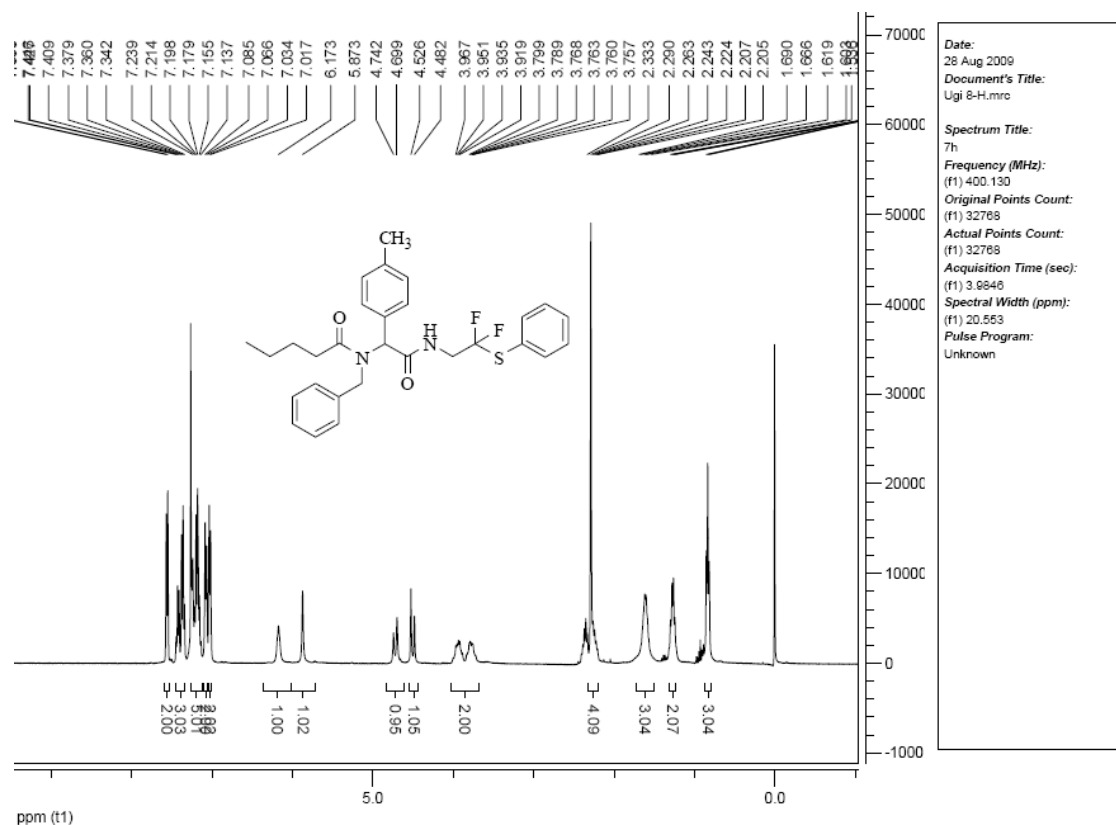
<sup>13</sup>C NMR spectra of **5g**



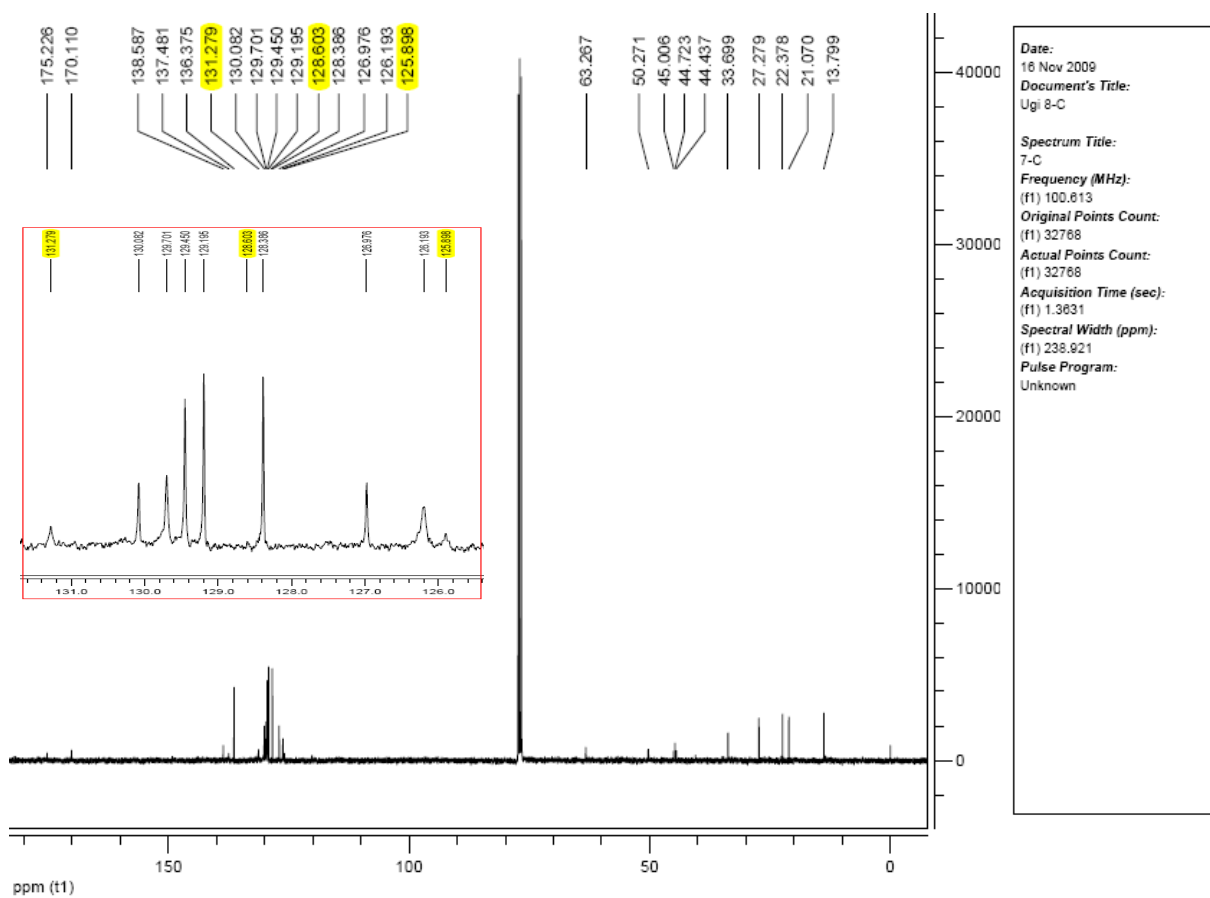
$^{19}\text{F}$  NMR spectra of **5g**



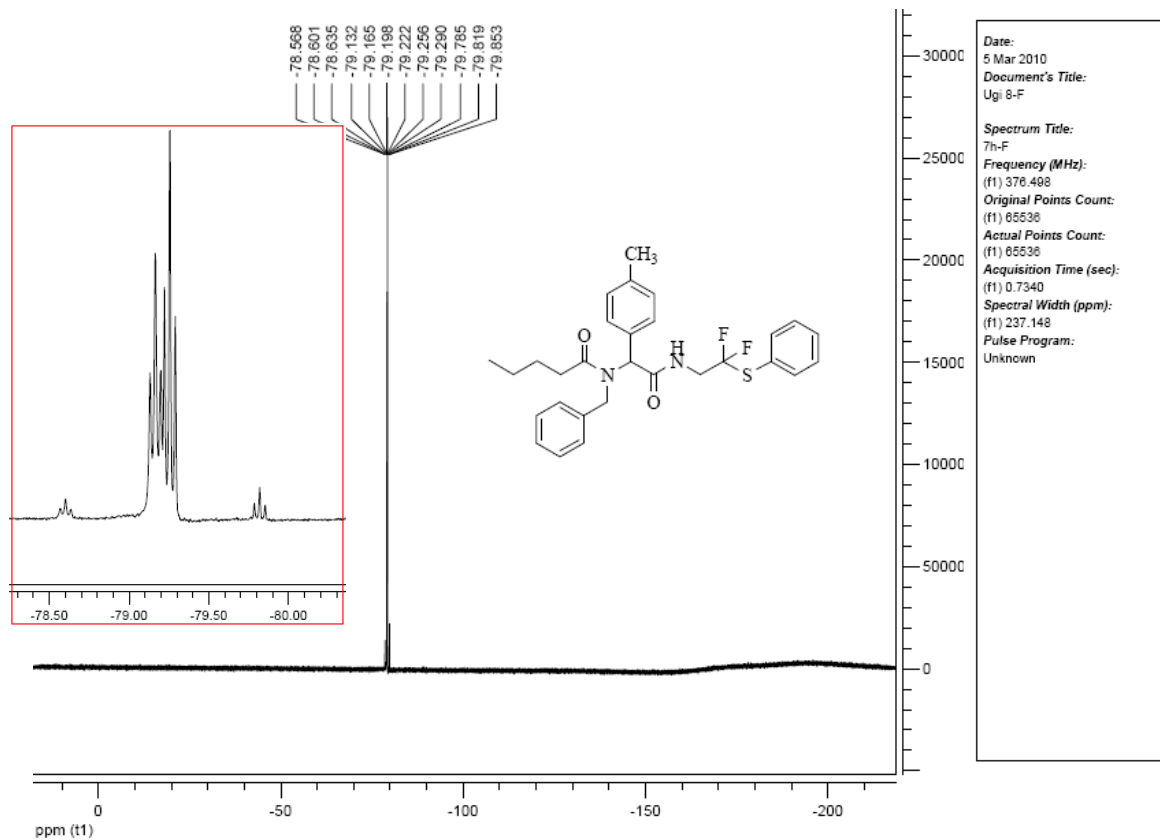
<sup>1</sup>H NMR spectra of **5h**



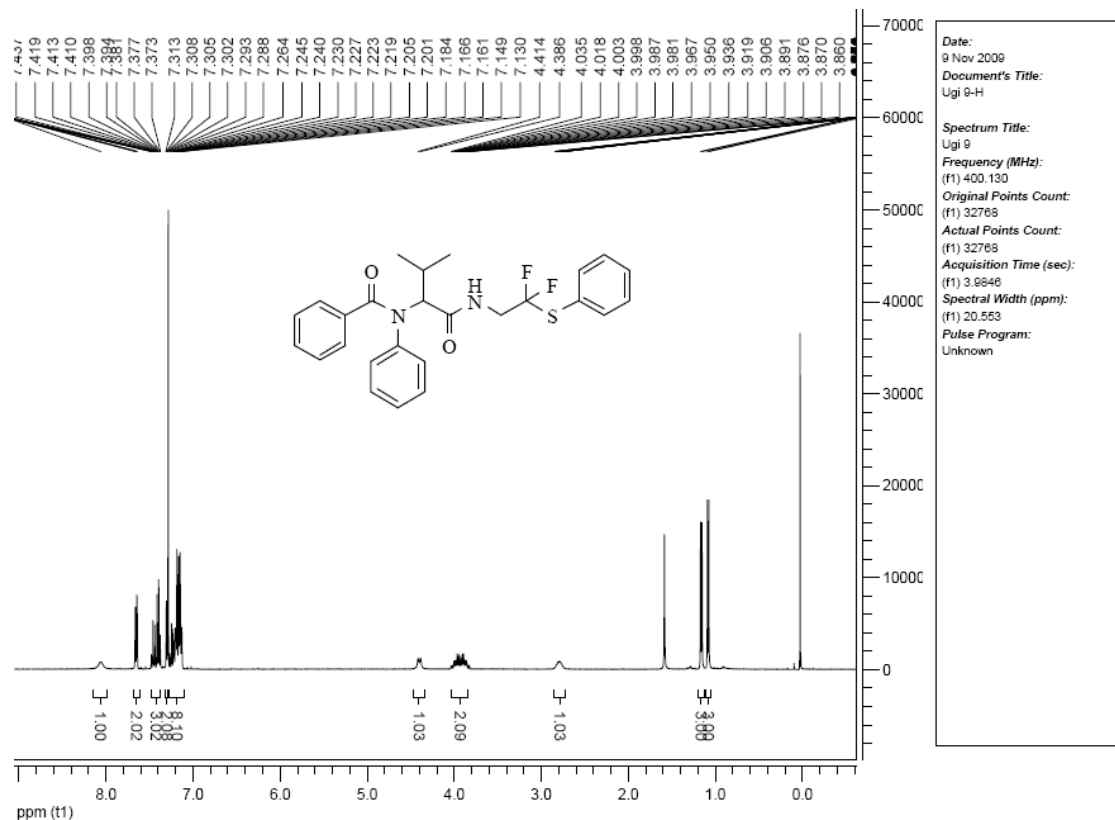
<sup>13</sup>C NMR spectra of **5h**



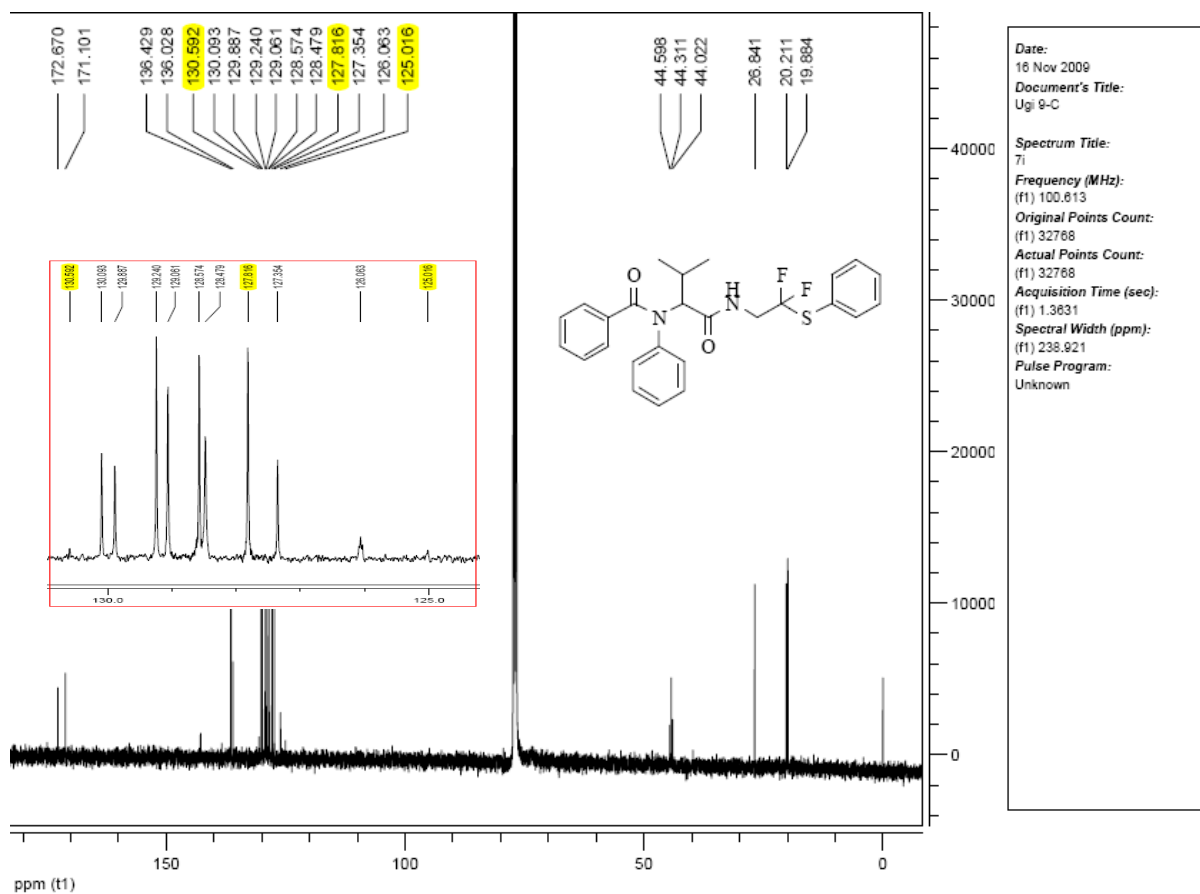
$^{19}\text{F}$  NMR spectra of **5h**



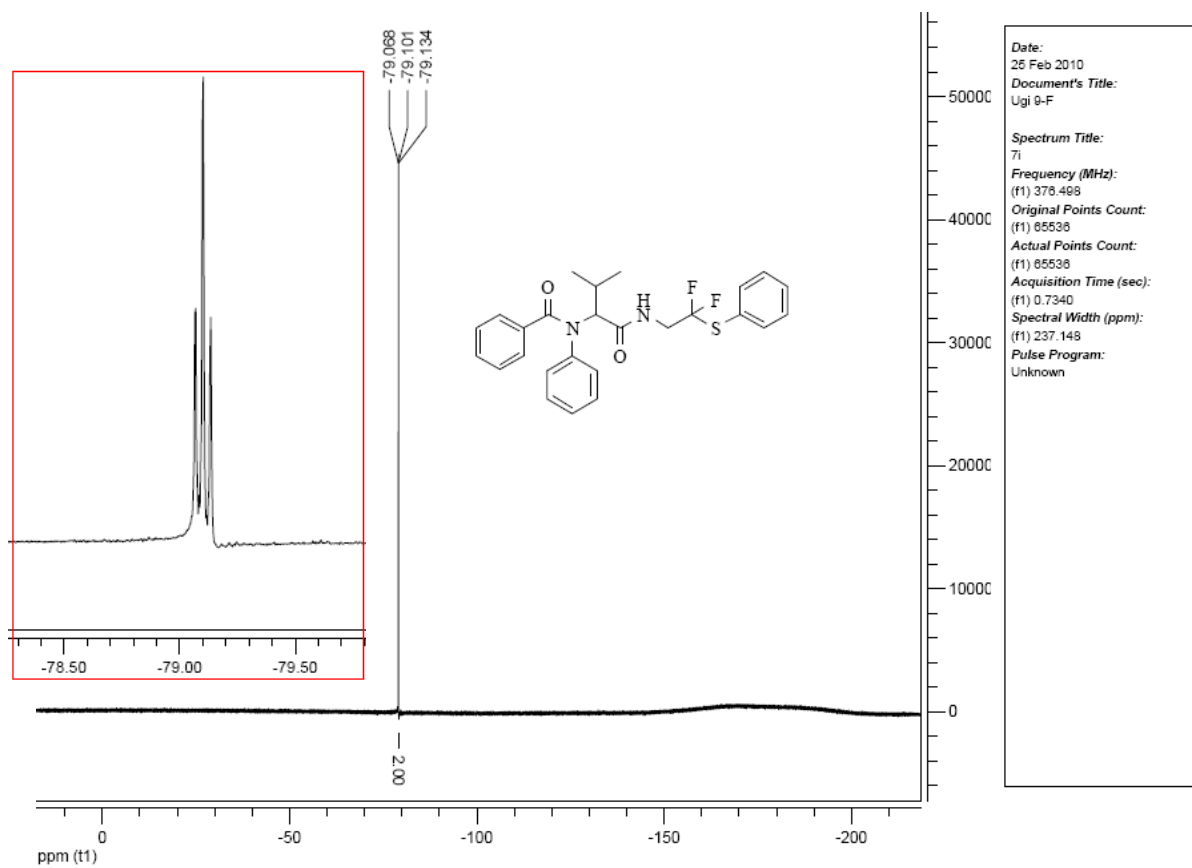
<sup>1</sup>H NMR spectra of **5i**



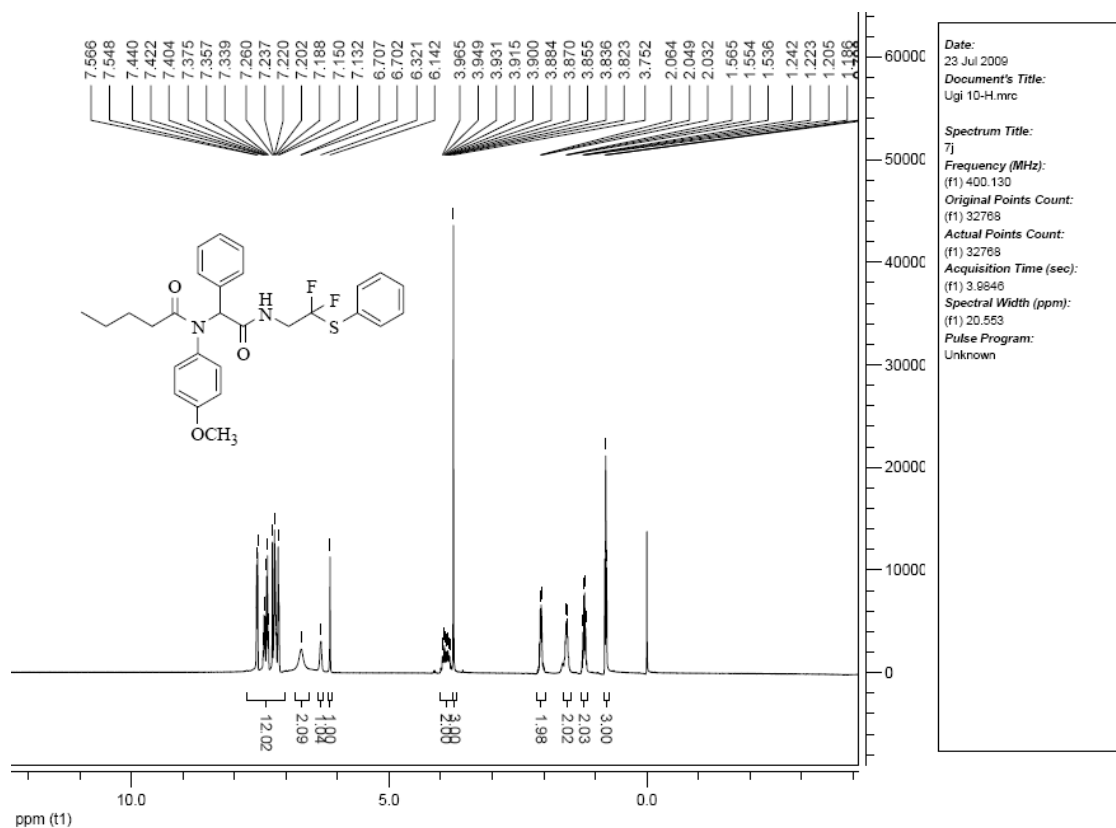
<sup>13</sup>C NMR spectra of **5i**



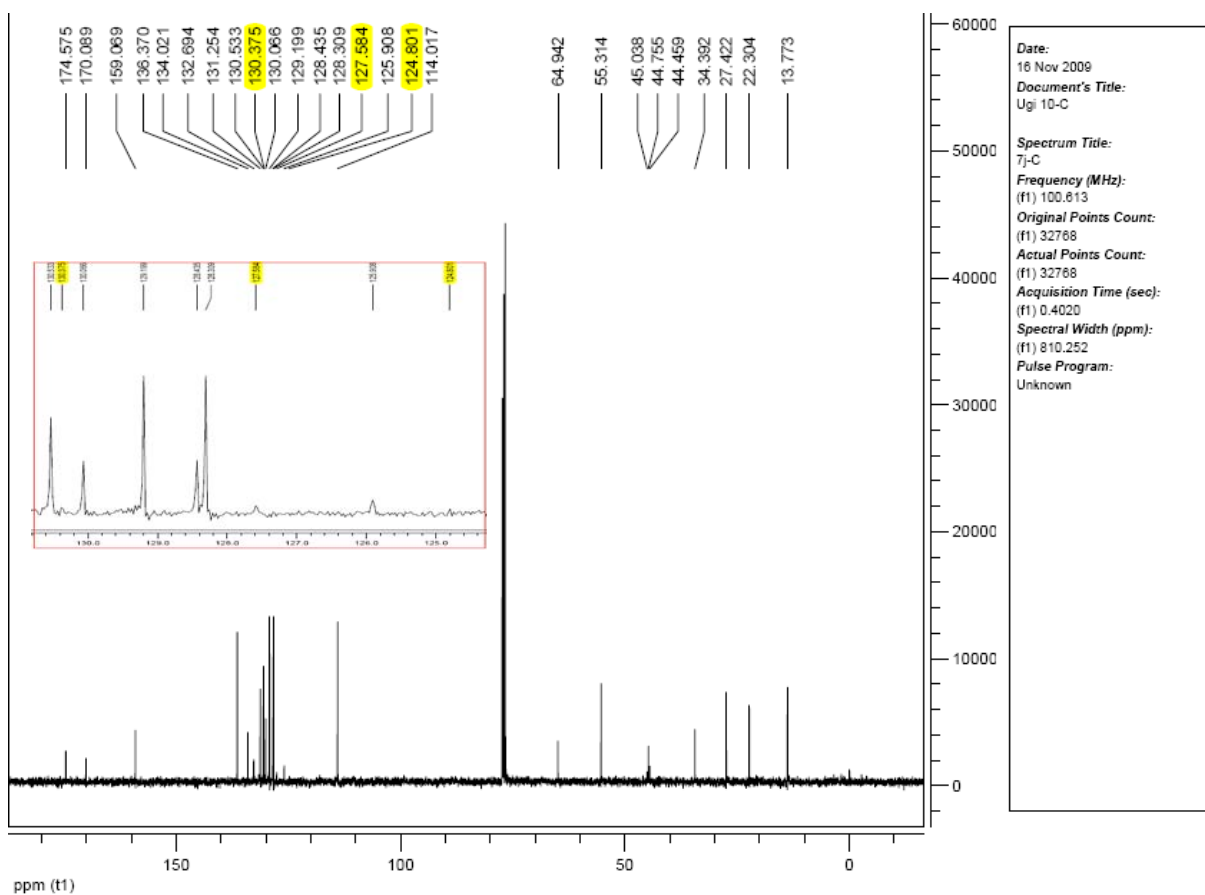
<sup>19</sup>F NMR spectra of **5i**



<sup>1</sup>H NMR spectra of **5j**

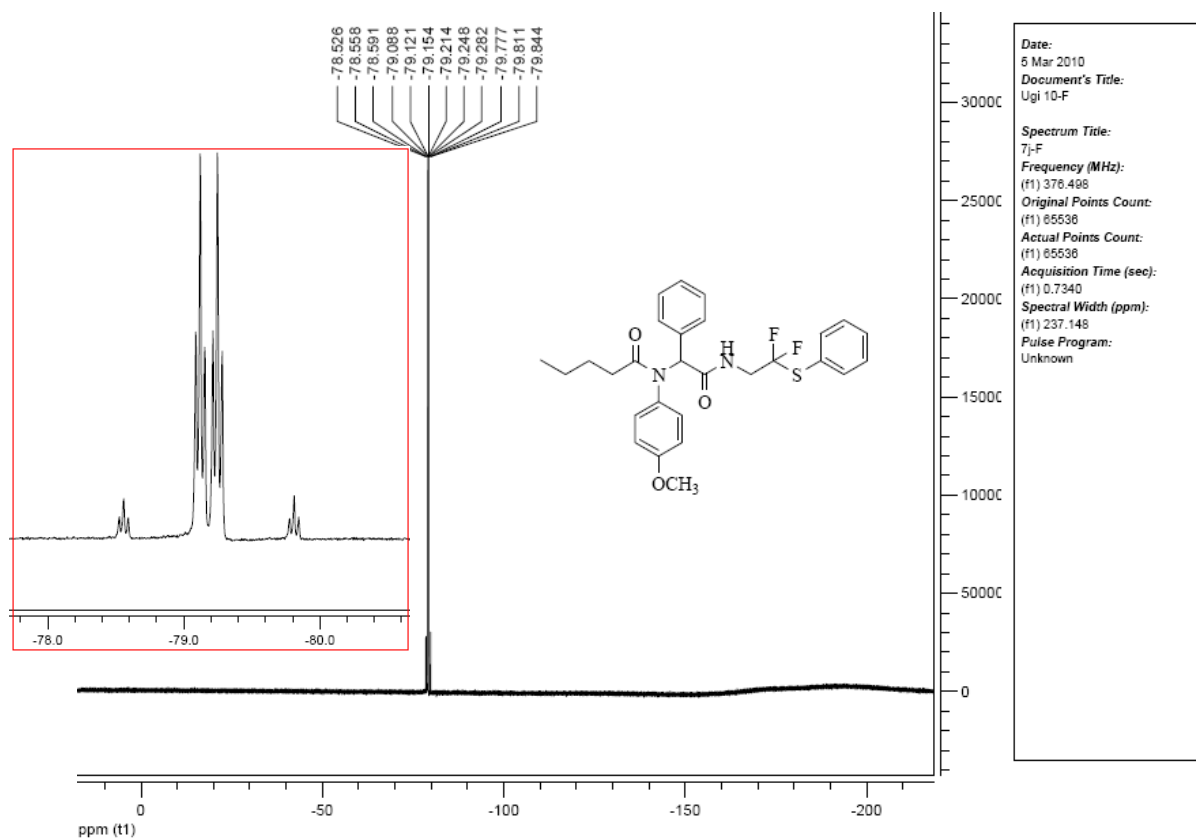


<sup>13</sup>C NMR spectra of **5j**

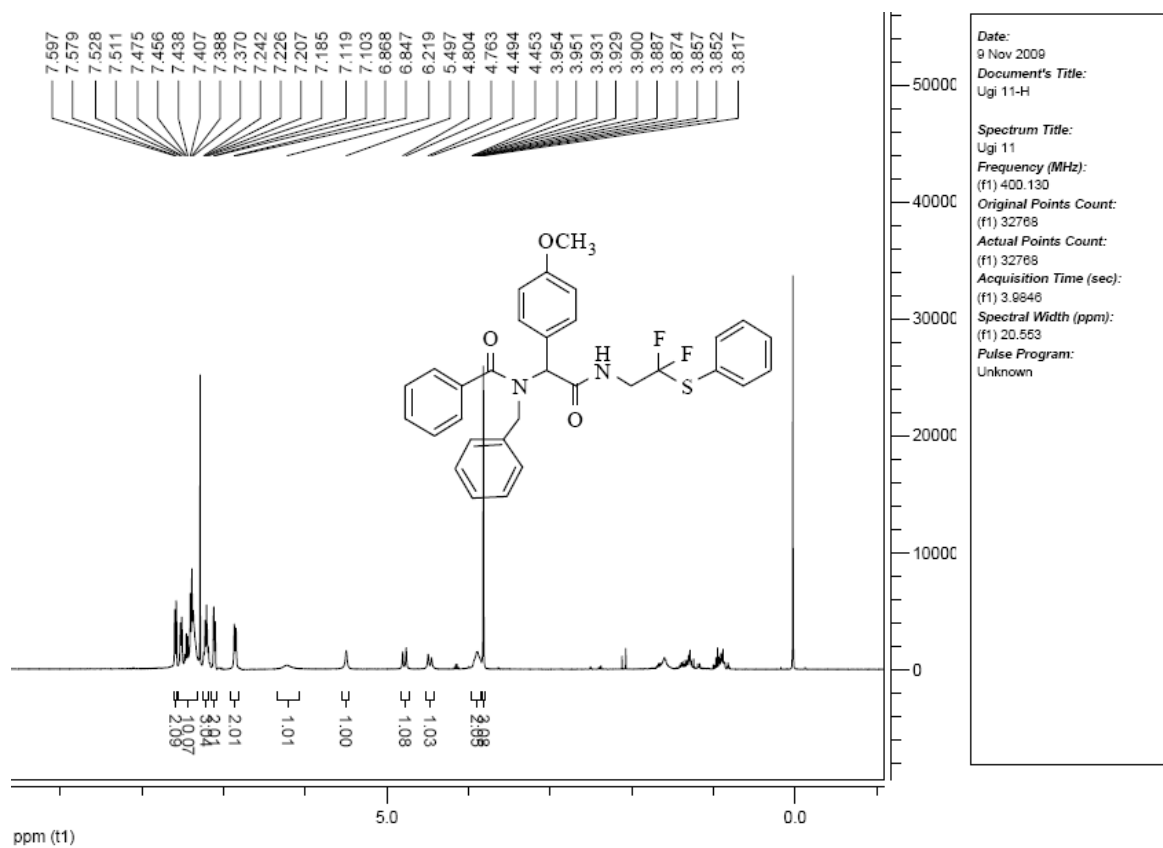




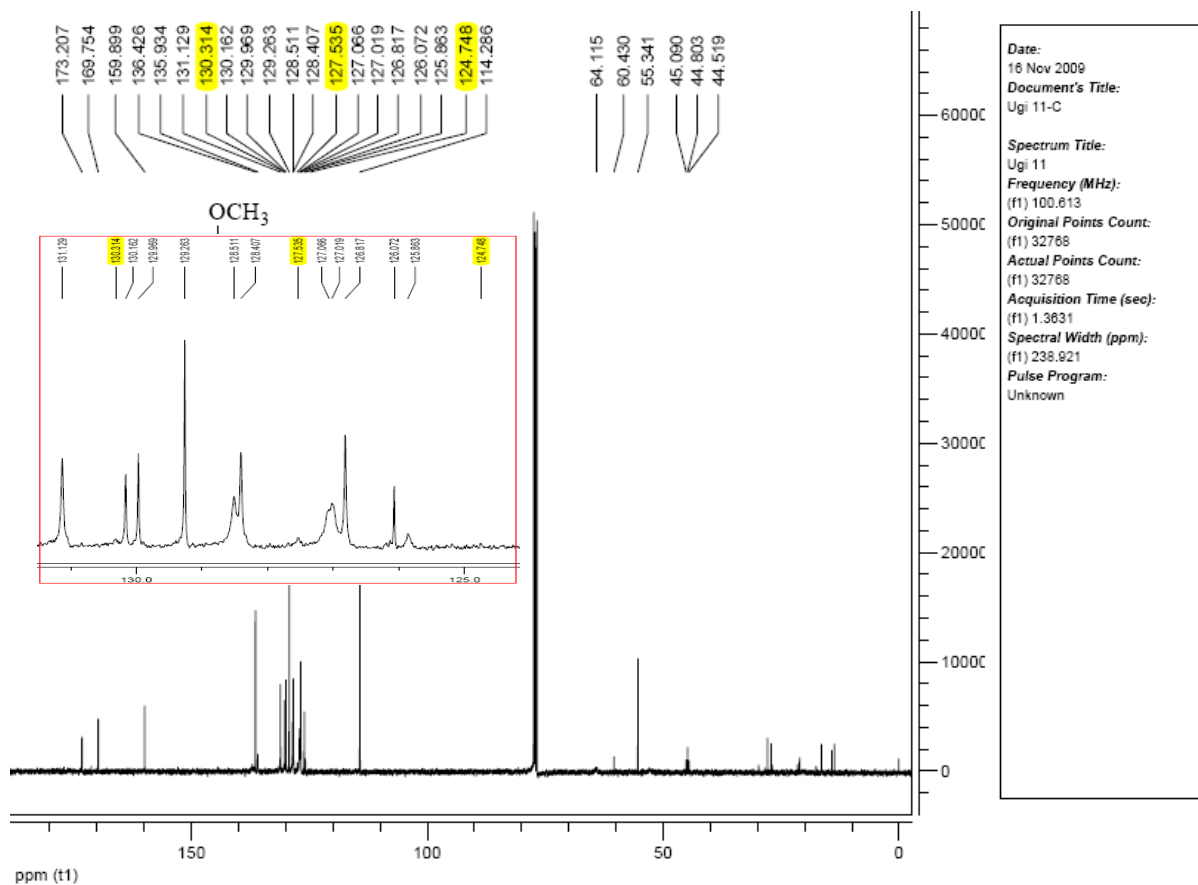
<sup>19</sup>F NMR spectra of **5j**



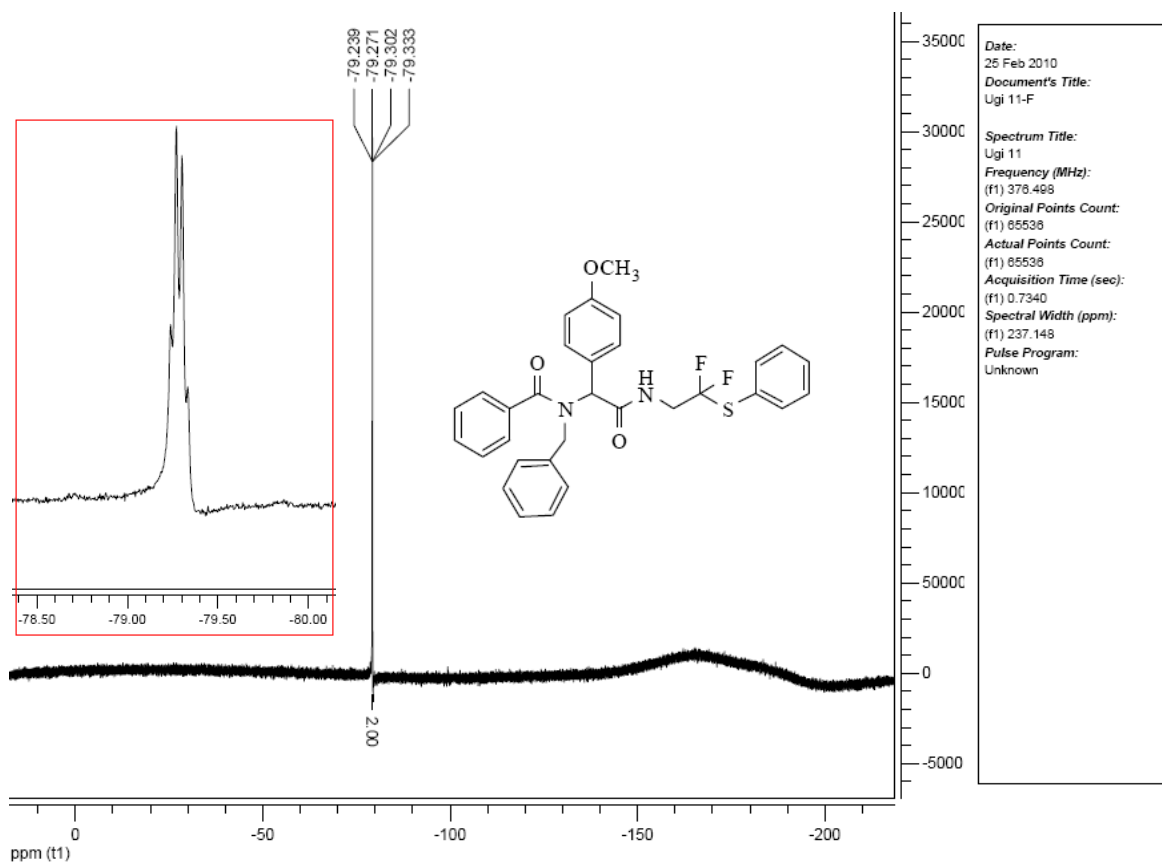
<sup>1</sup>H NMR spectra of **5k**



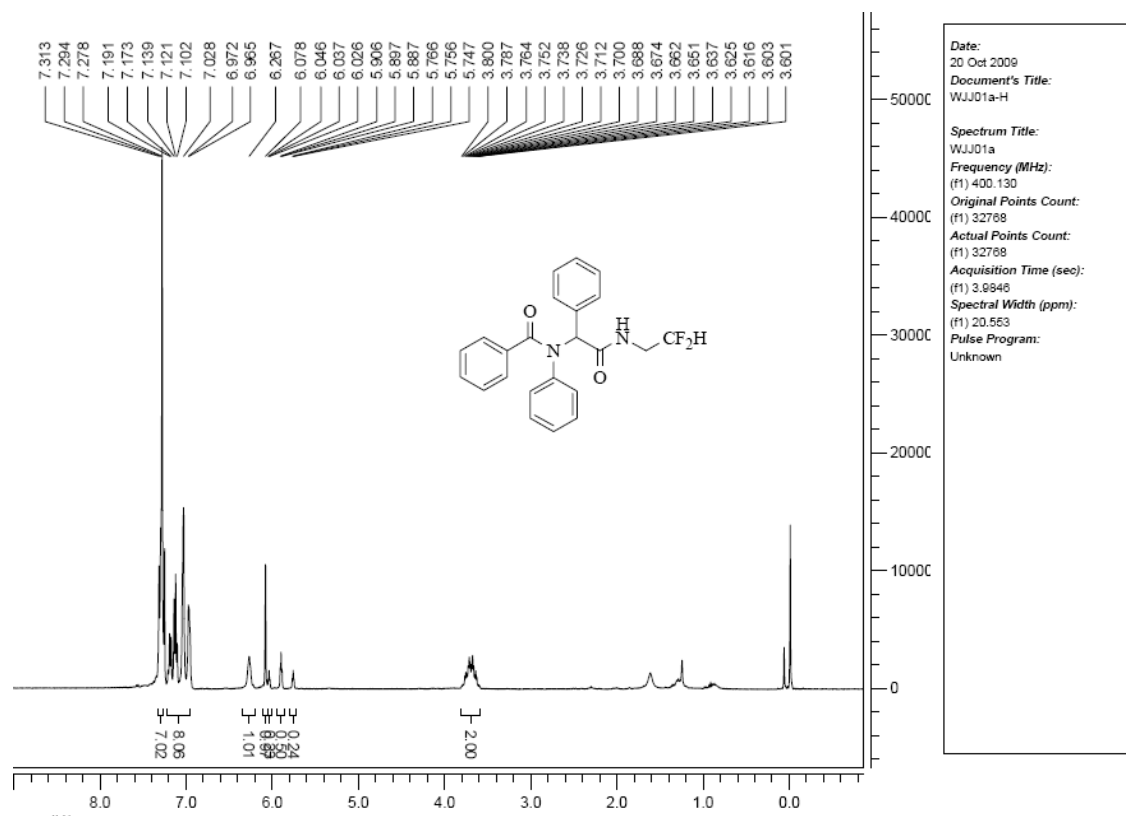
<sup>13</sup>C NMR spectra of **5k**



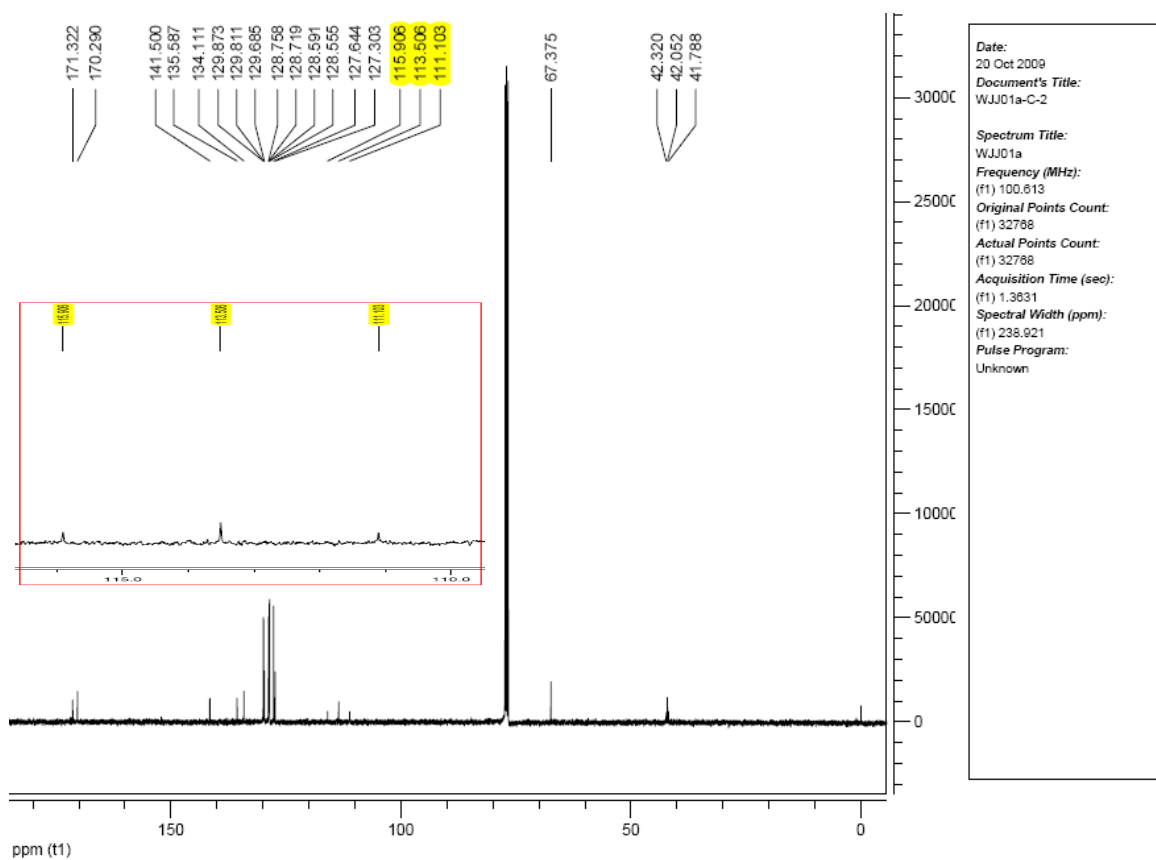
$^{19}\text{F}$  NMR spectra of **5k**



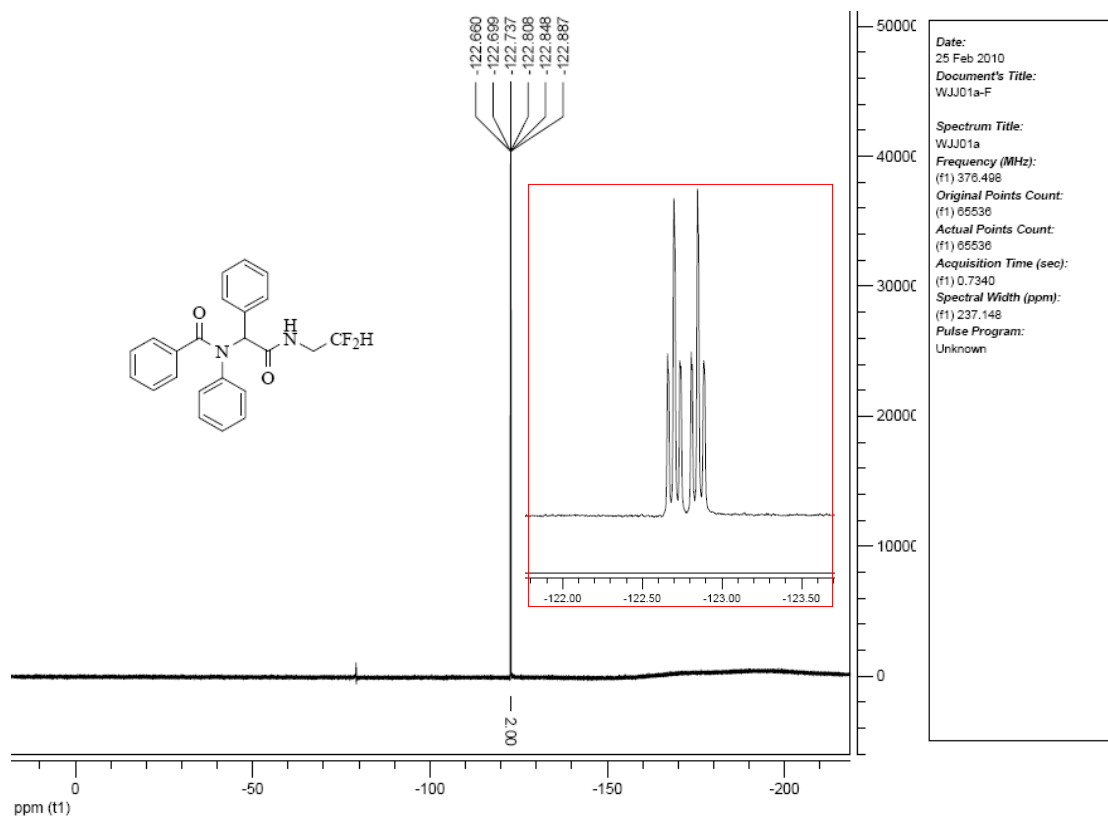
### <sup>1</sup>H NMR spectra of **6a**



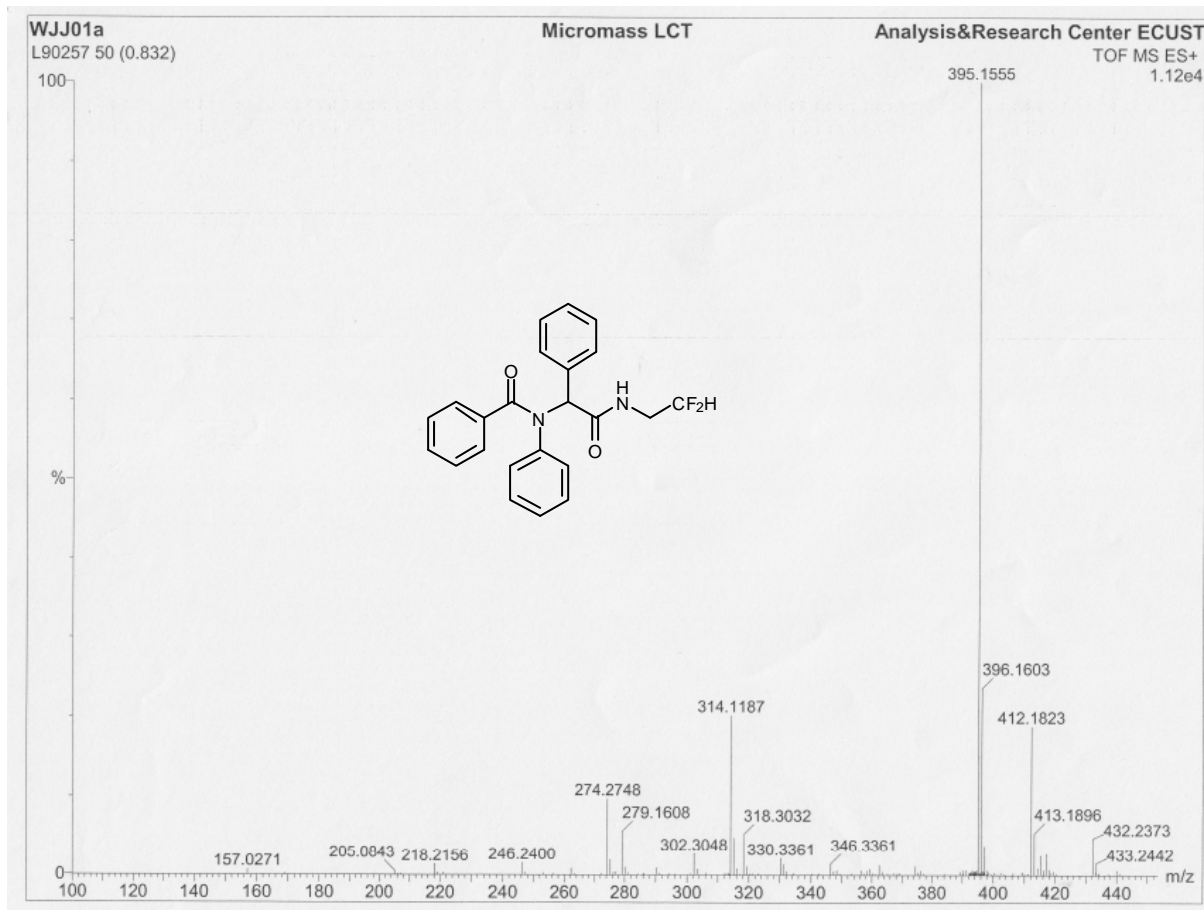
### <sup>13</sup>C NMR spectra of **6a**



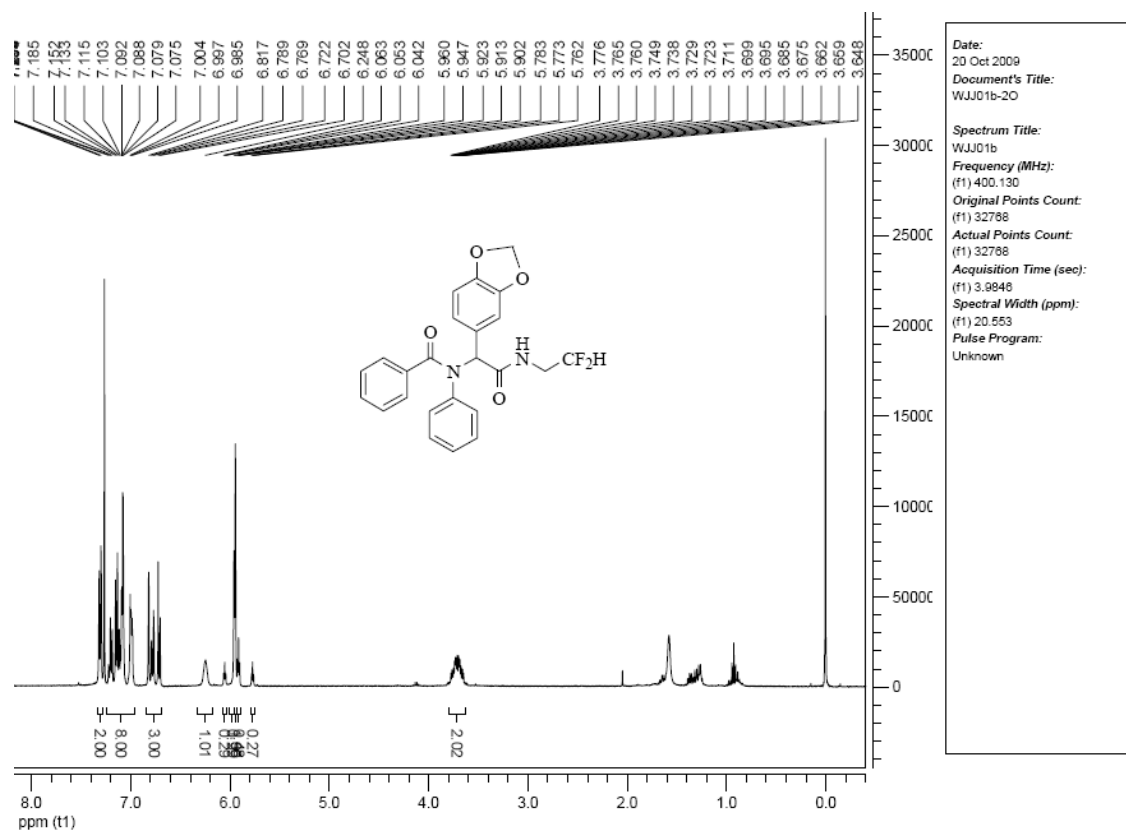
### <sup>19</sup>F NMR spectra of **6a**



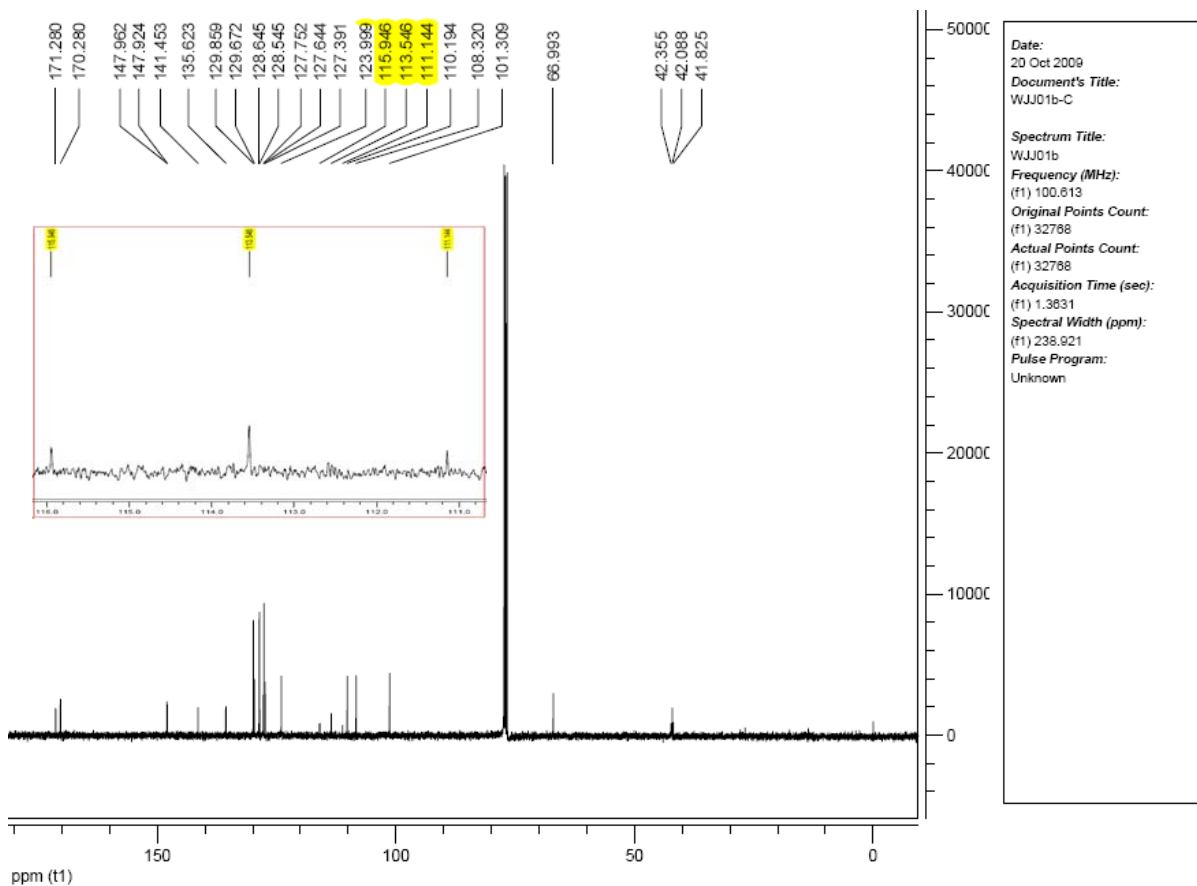
### HRMS (ESI) spectra of **6a**



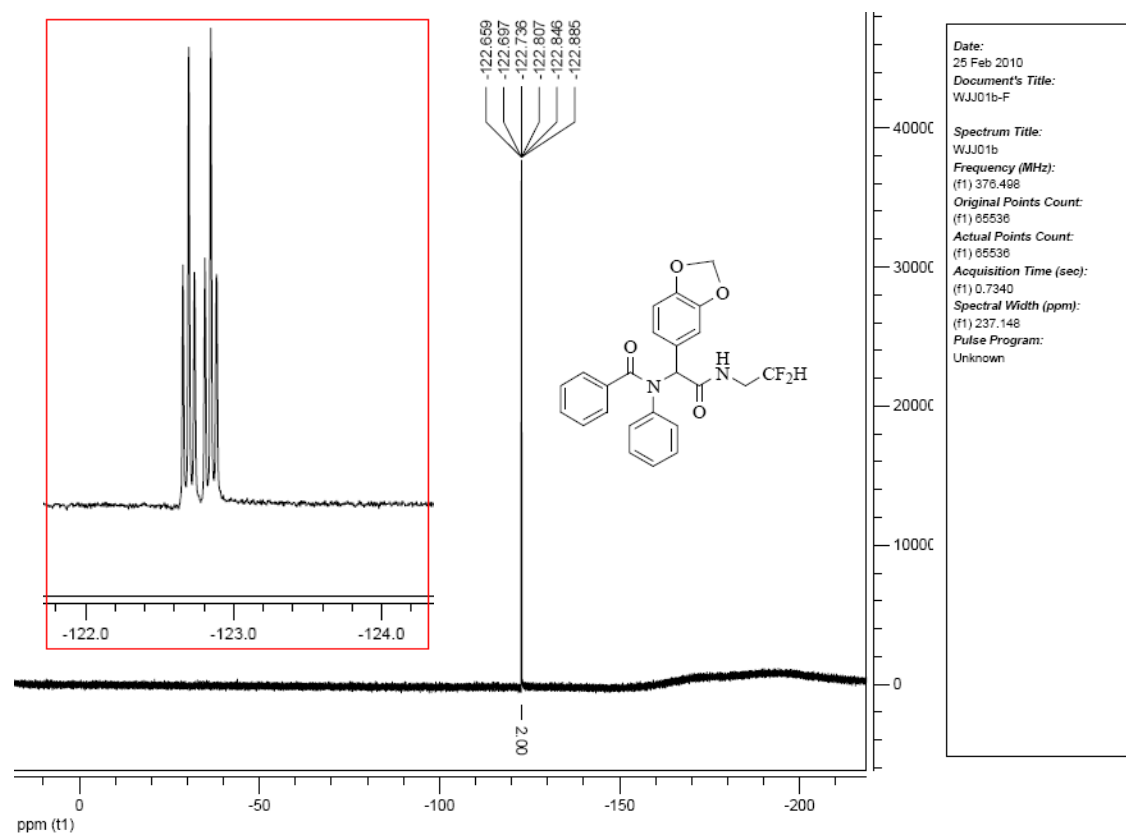
<sup>1</sup>H NMR spectra of **6b**



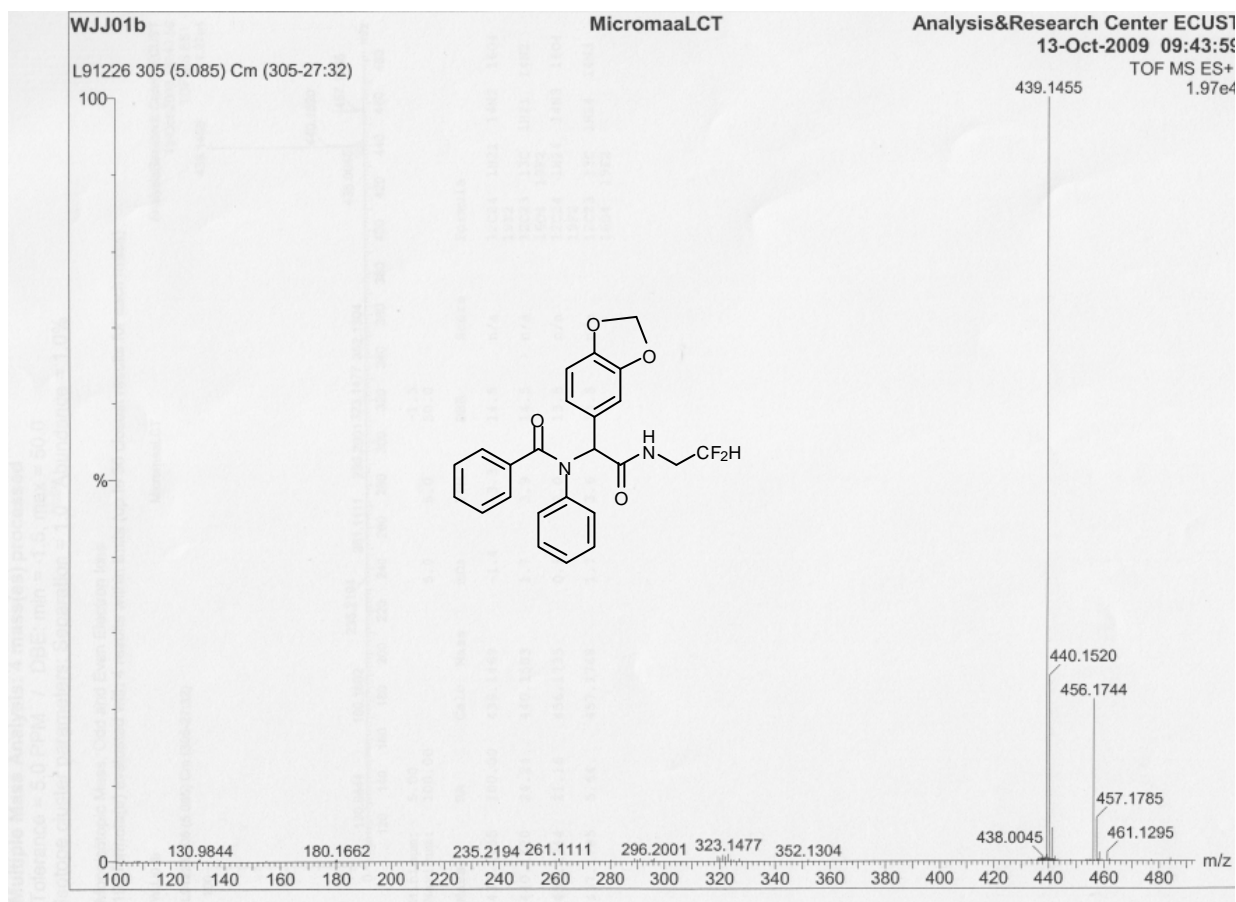
<sup>13</sup>C NMR spectra of **6b**



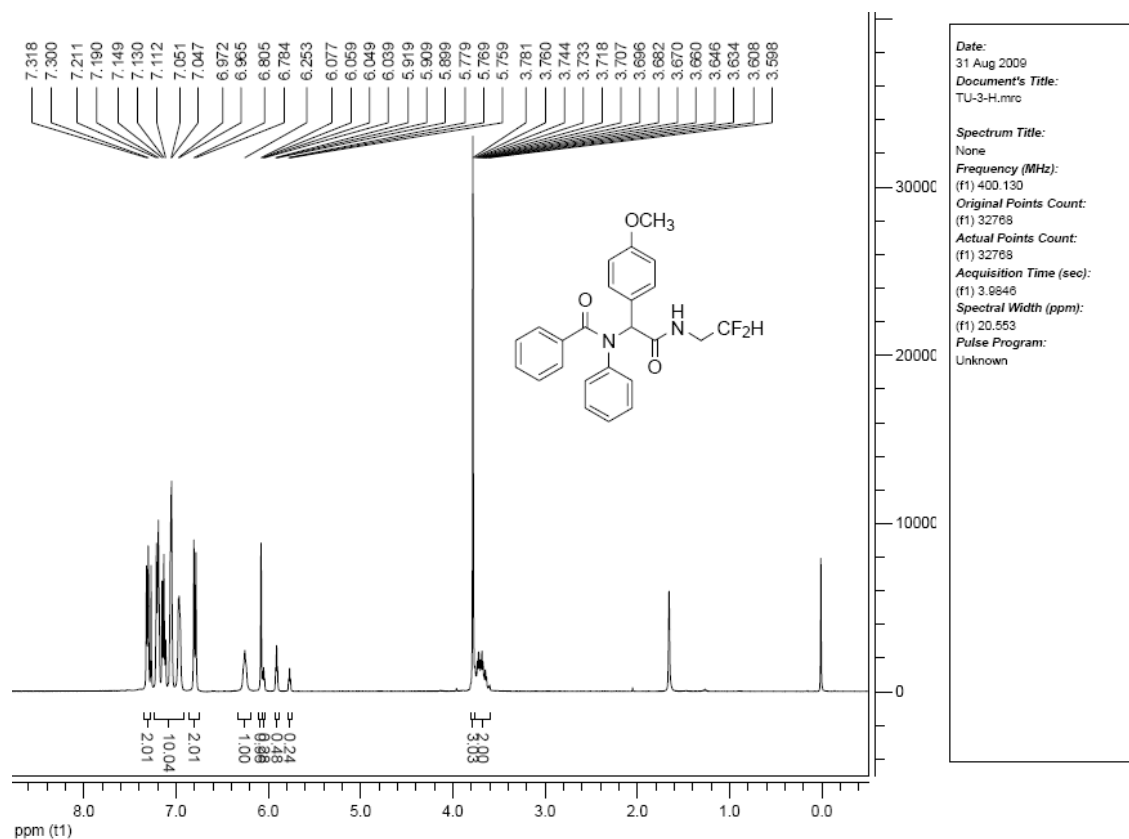
### $^{19}\text{F}$ NMR spectra of **6b**



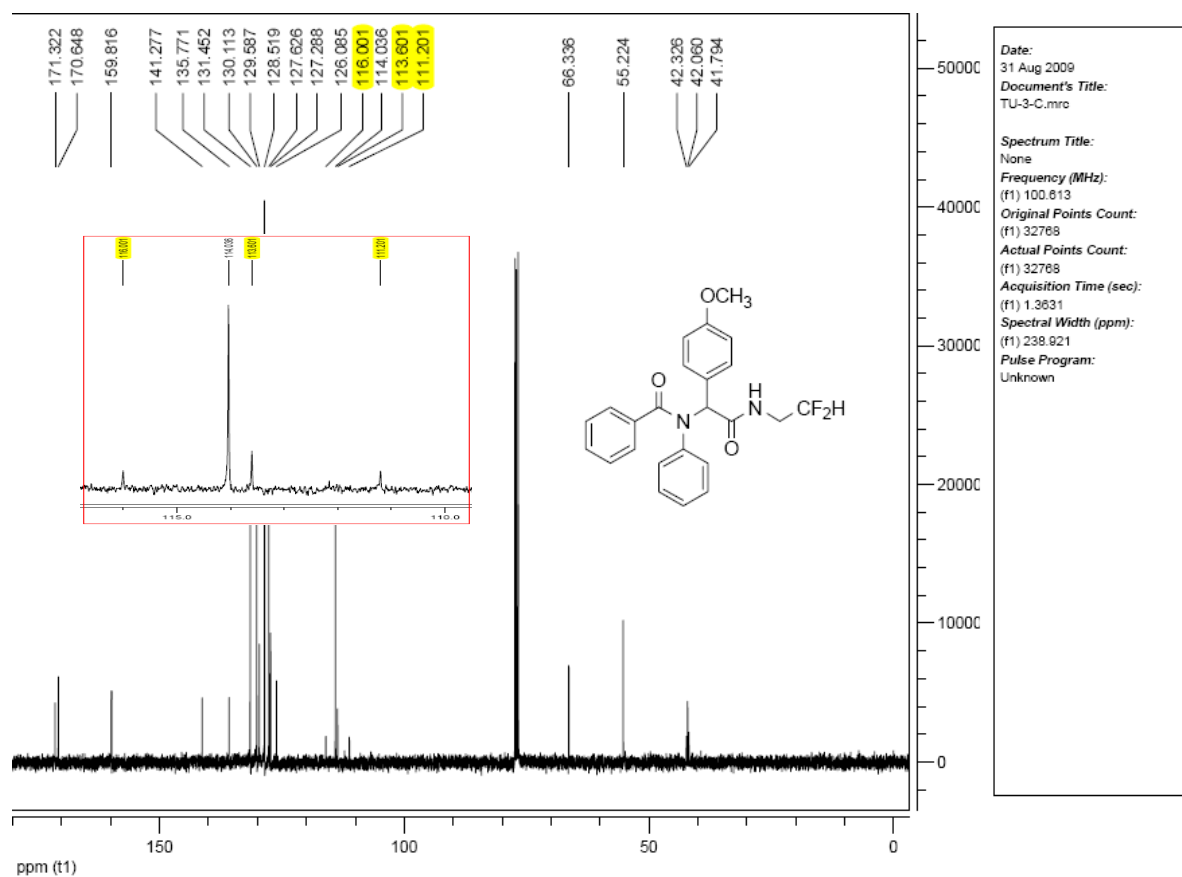
### HRMS (ESI) spectra of **6b**



### <sup>1</sup>H NMR spectra of **6c**

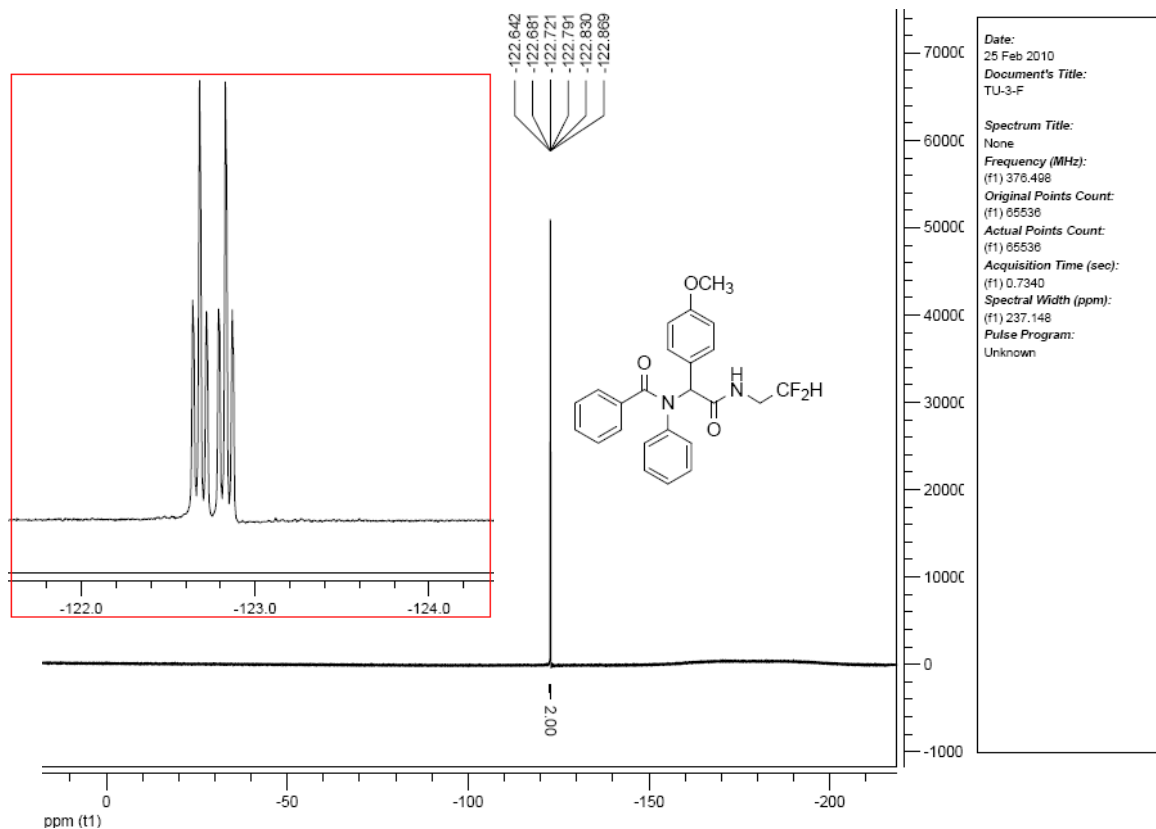


### <sup>13</sup>C NMR spectra of **6c**

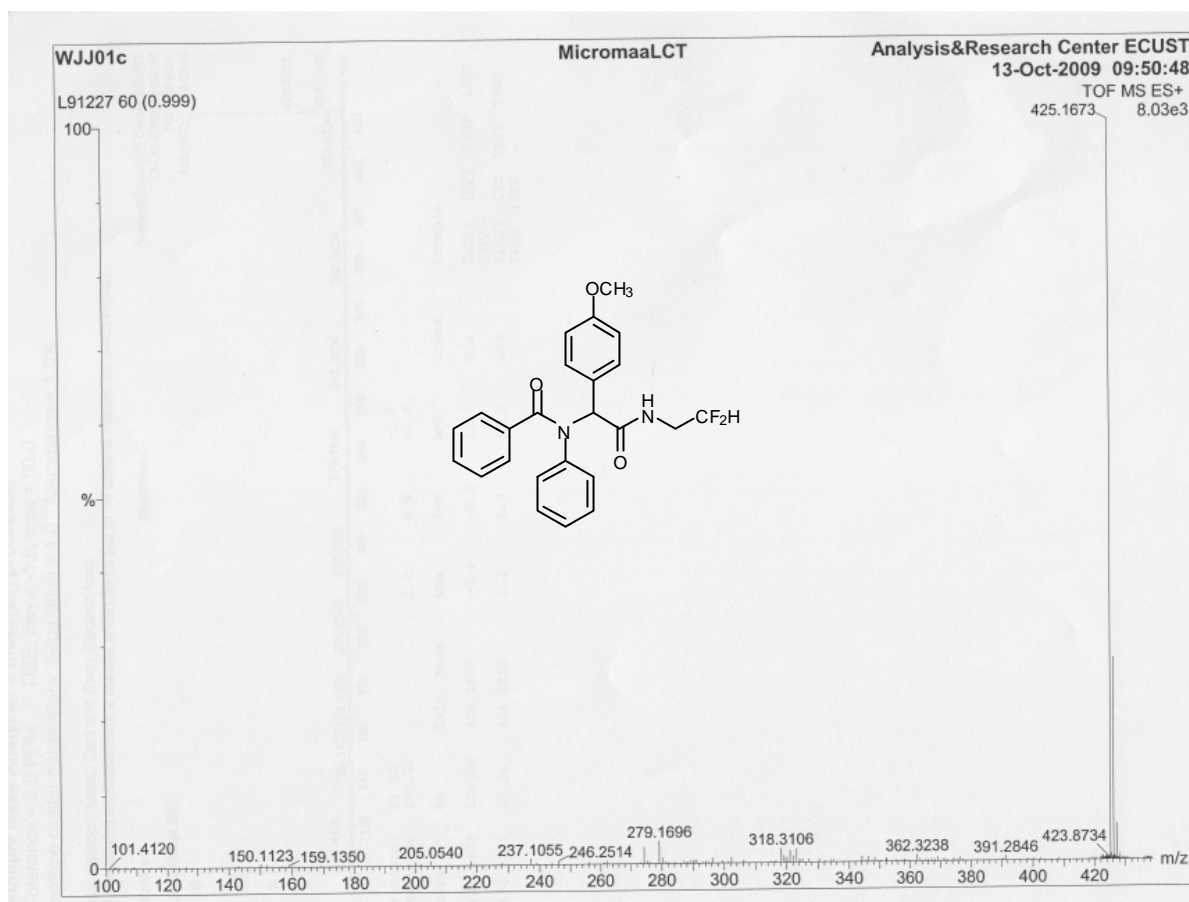




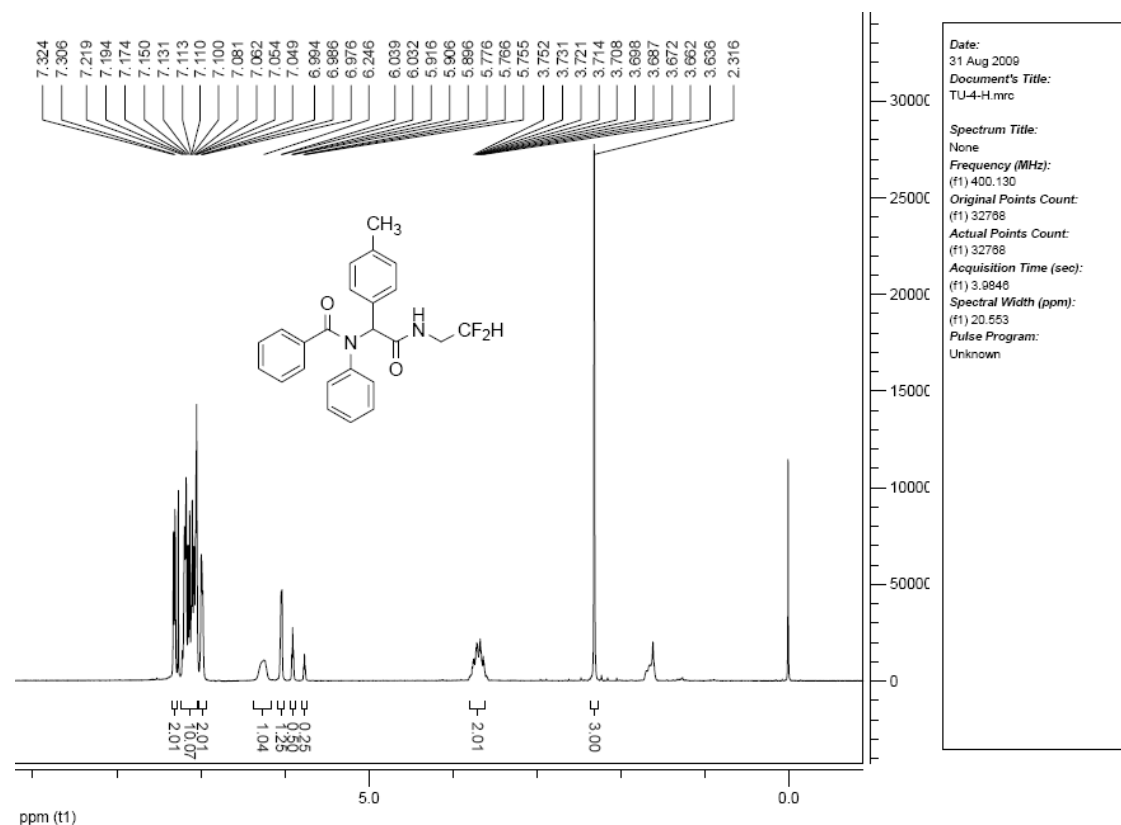
### $^{19}\text{F}$ NMR spectra of **6c**



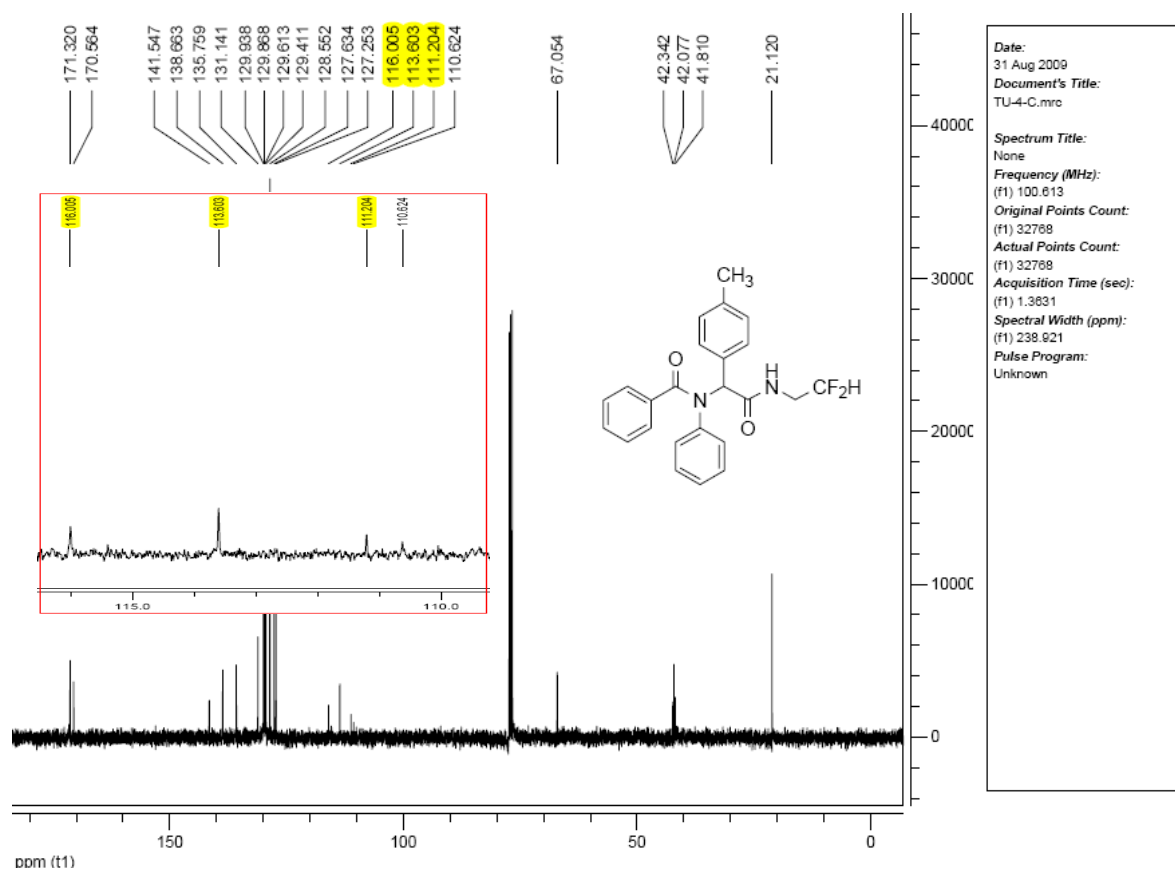
### HRMS (ESI) spectra of **6c**



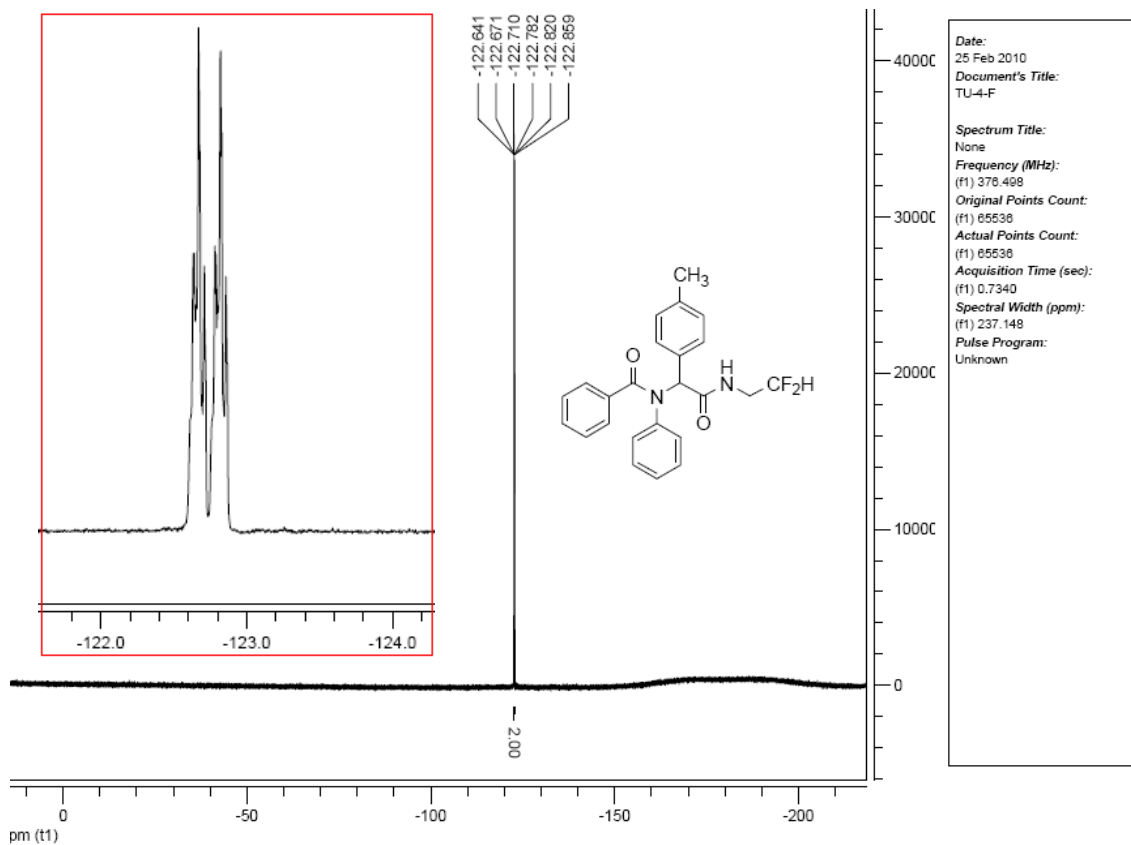
<sup>1</sup>H NMR spectra of **6d**



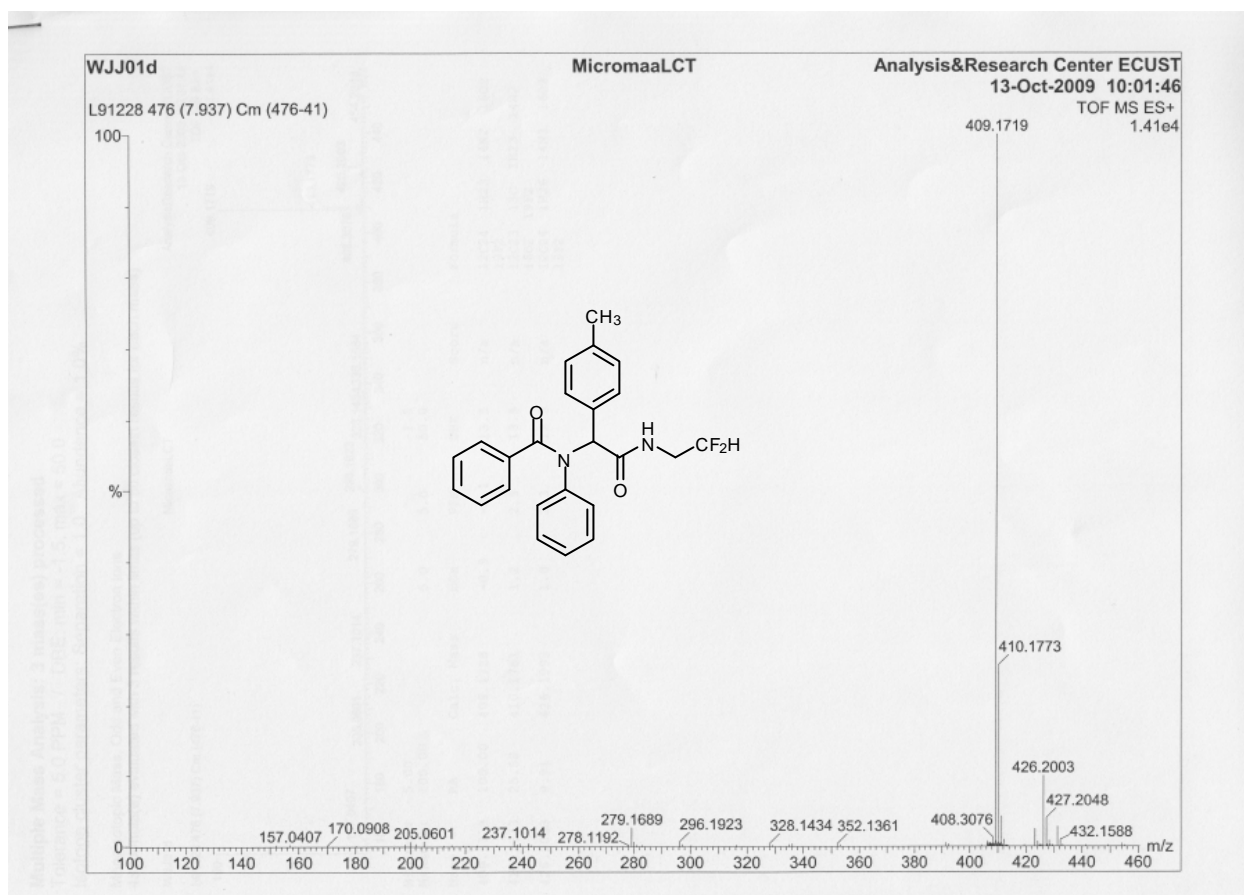
<sup>13</sup>C NMR spectra of **6d**



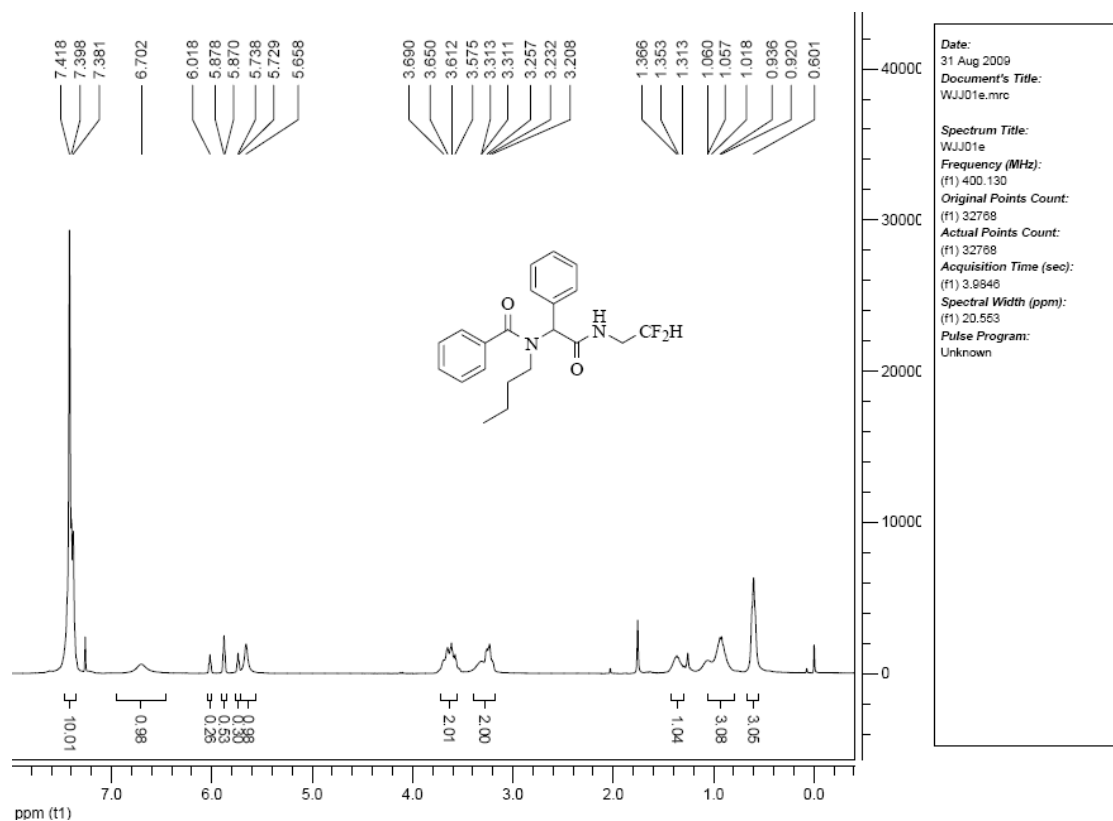
$^{19}\text{F}$  NMR spectra of **6d**



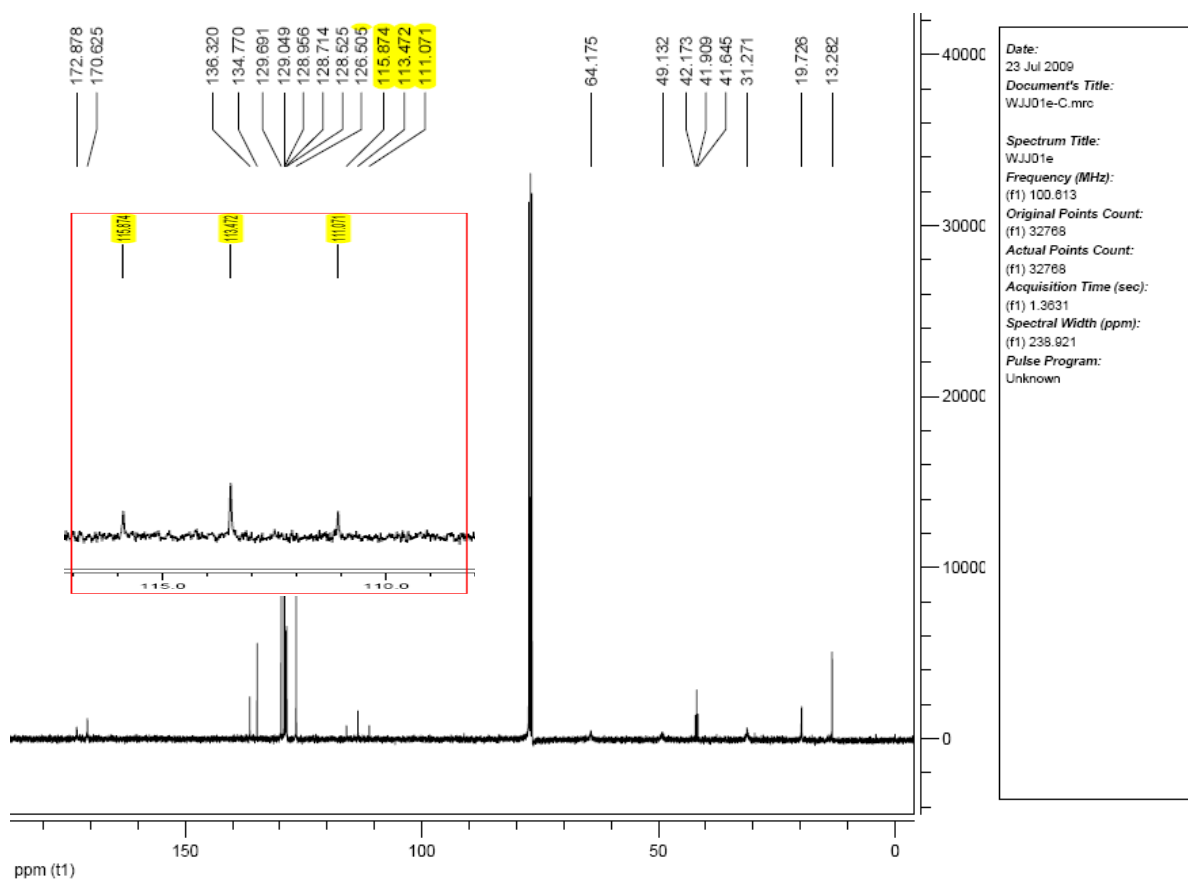
HRMS (ESI) spectra of **6d**



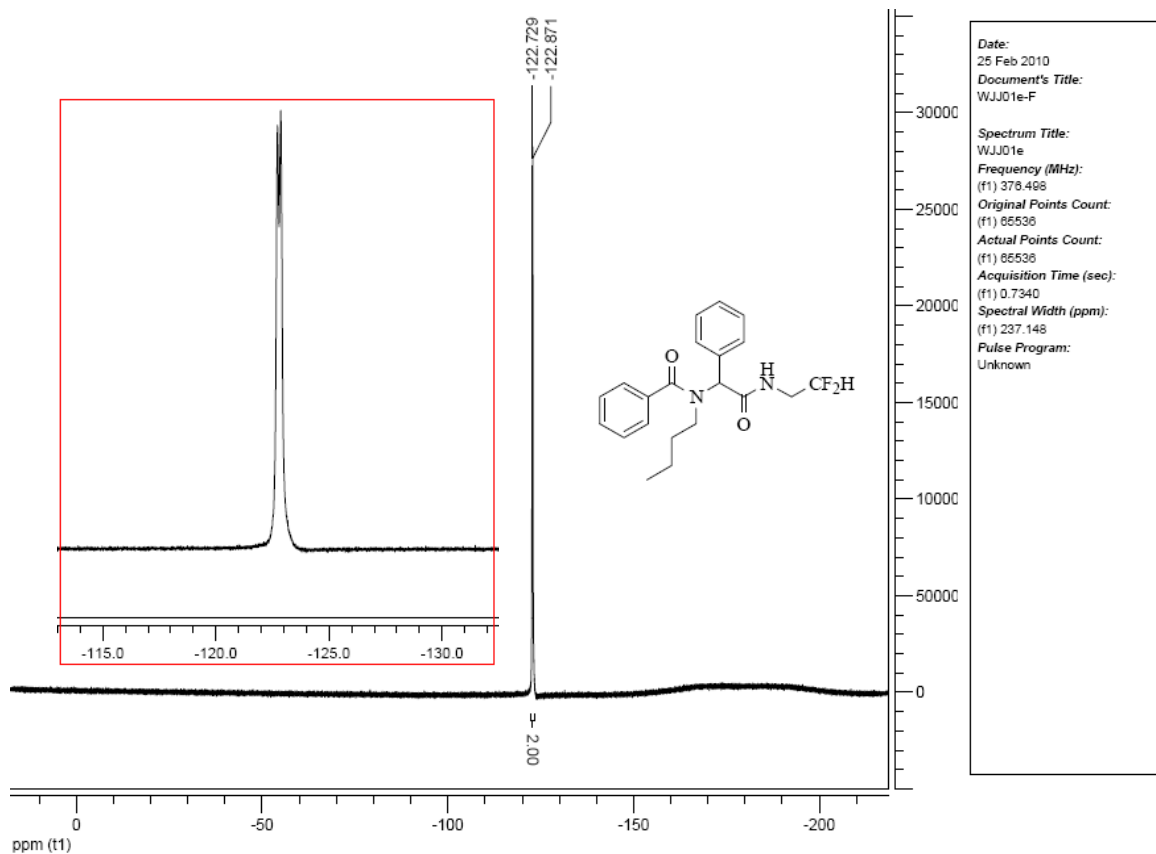
### <sup>1</sup>H NMR spectra of **6e**



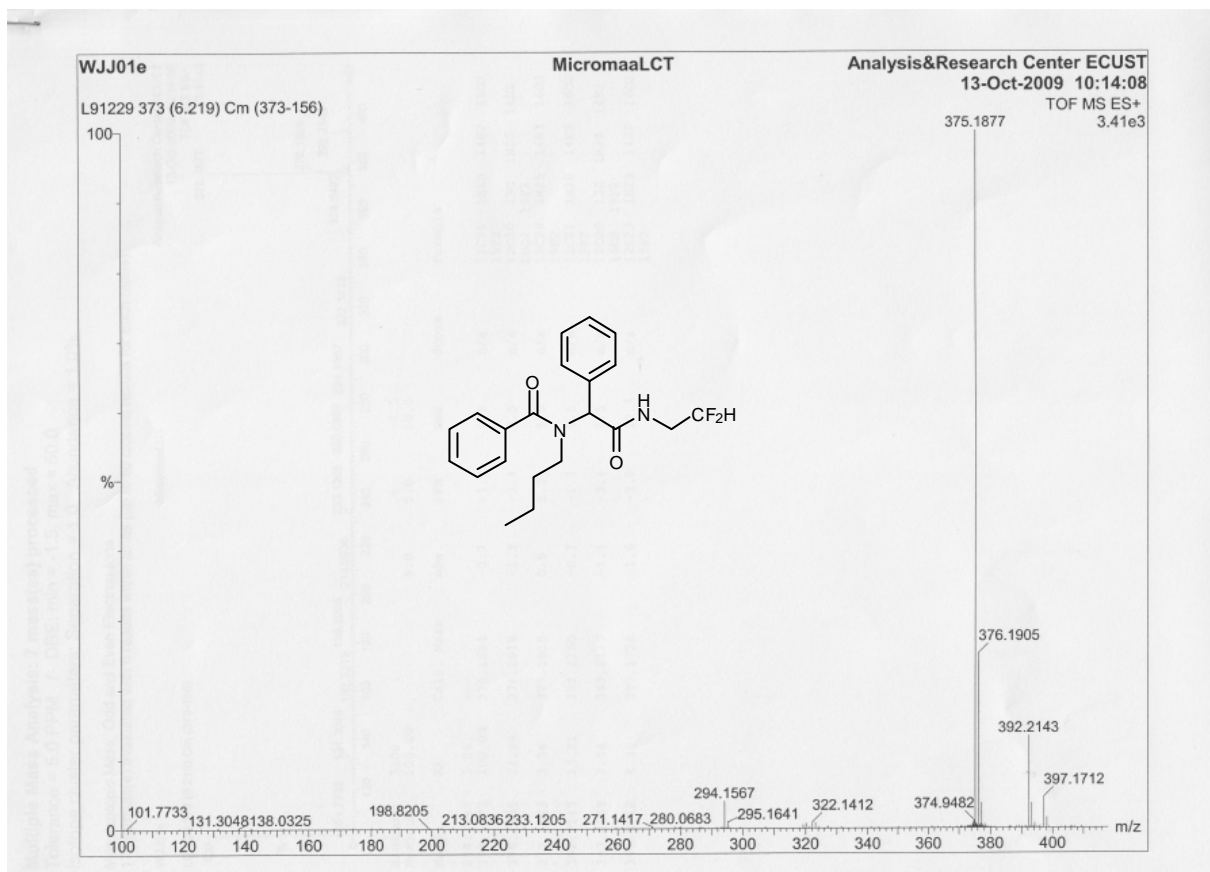
### <sup>13</sup>C NMR spectra of **6e**



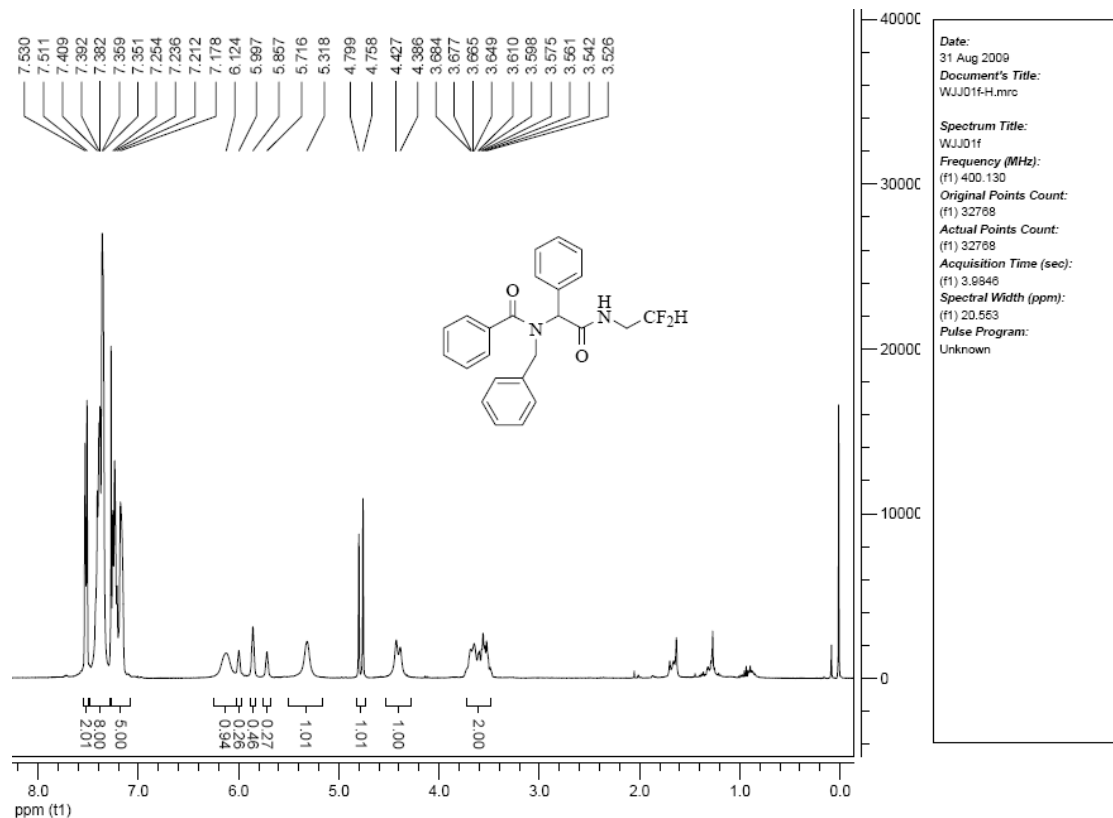
### $^{19}\text{F}$ NMR spectra of **6e**



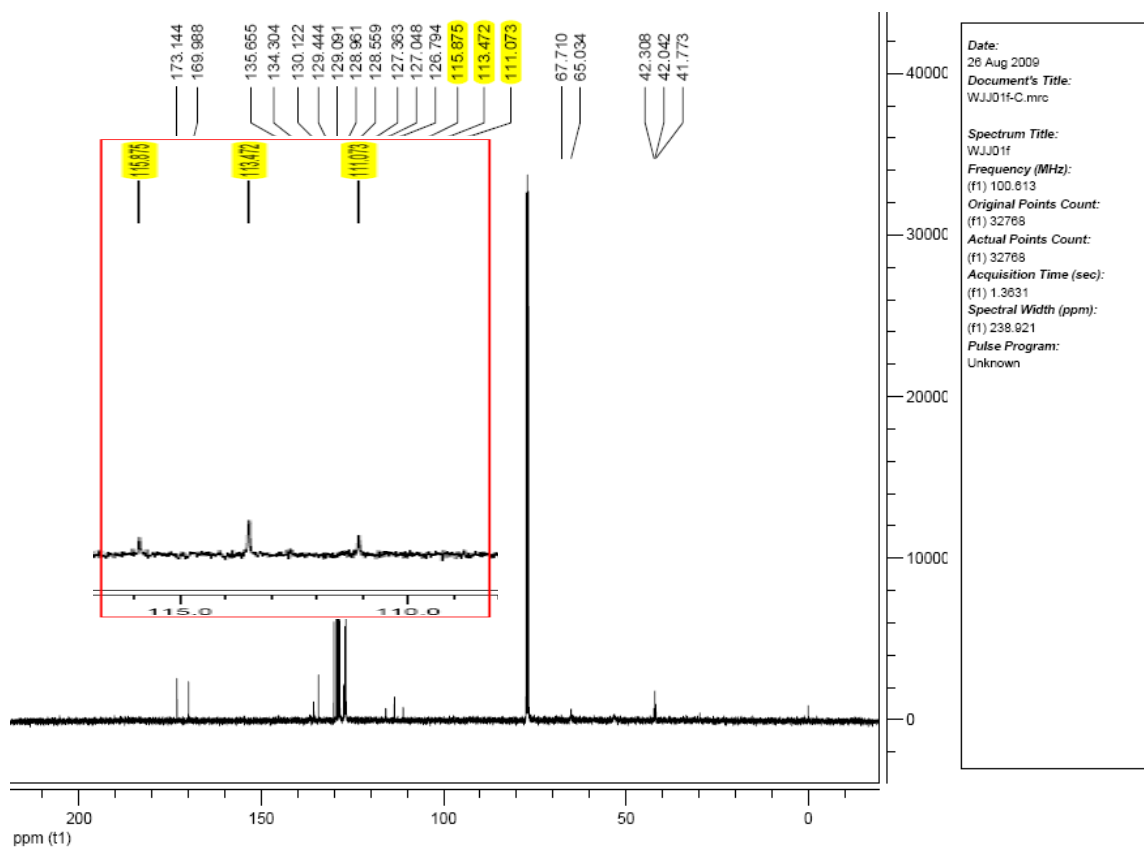
### HRMS (ESI) spectra of **6e**



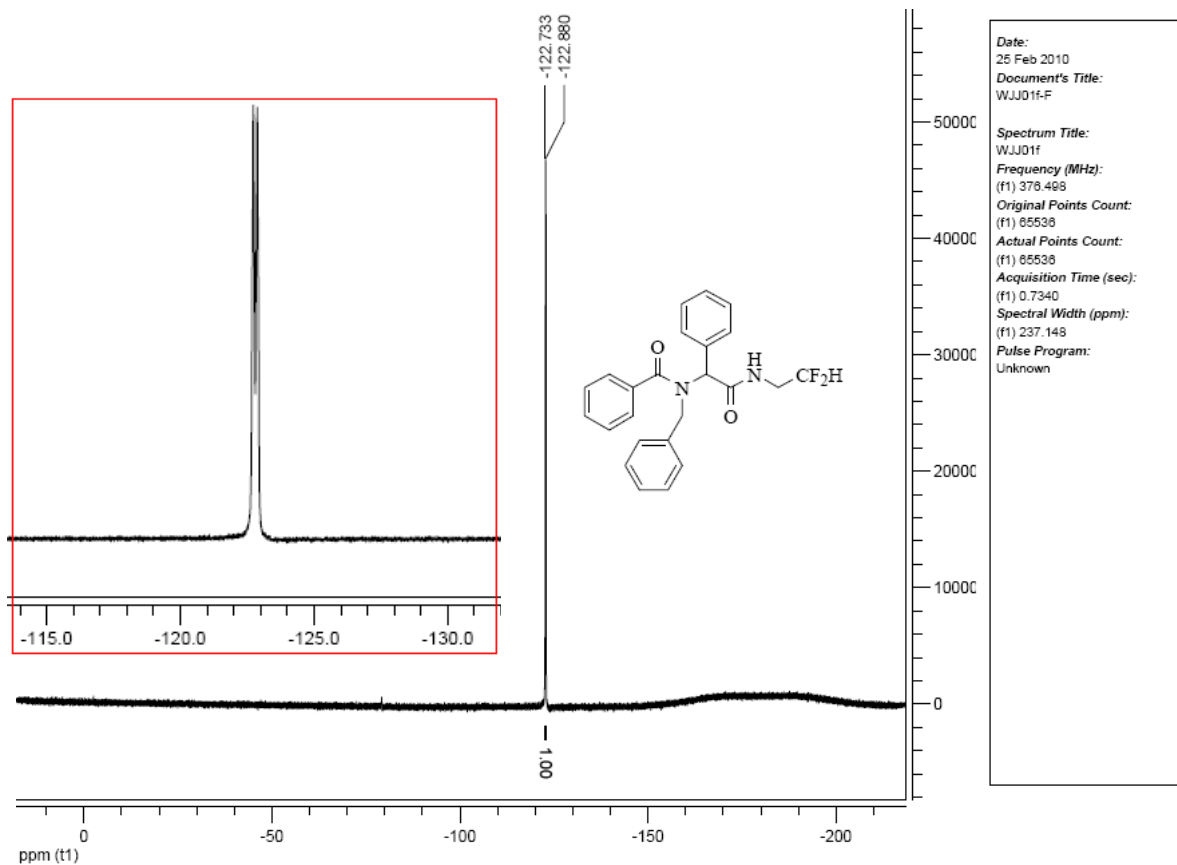
### $^1\text{H}$ NMR spectra of **6f**



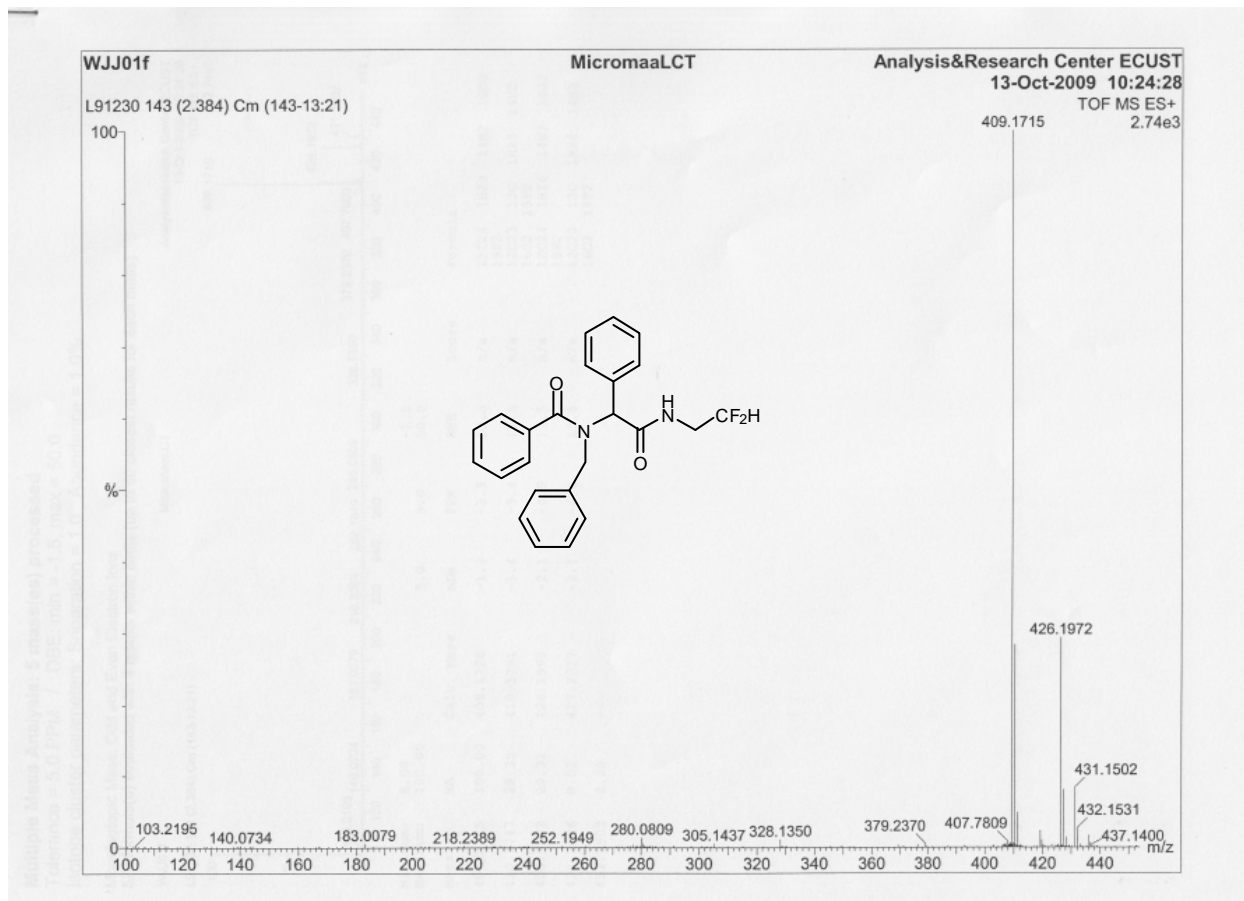
### $^{13}\text{C}$ NMR spectra of **6f**



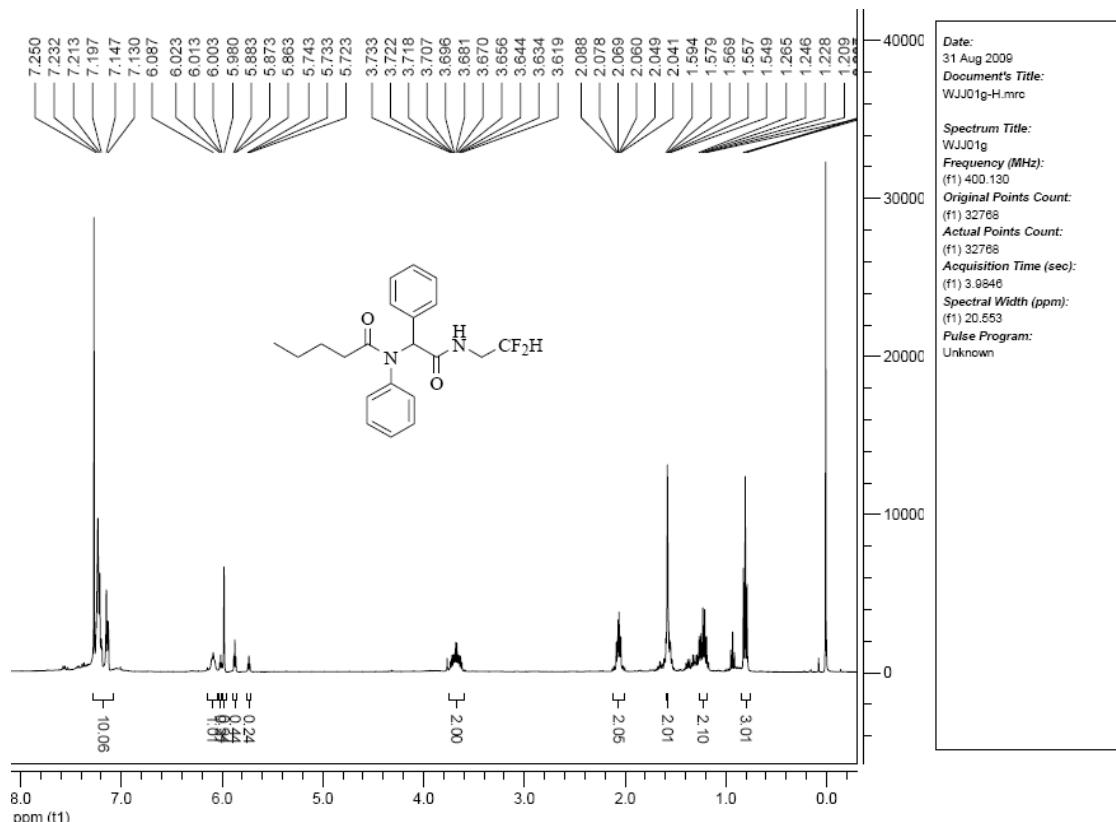
### $^{19}\text{F}$ NMR spectra of **6f**



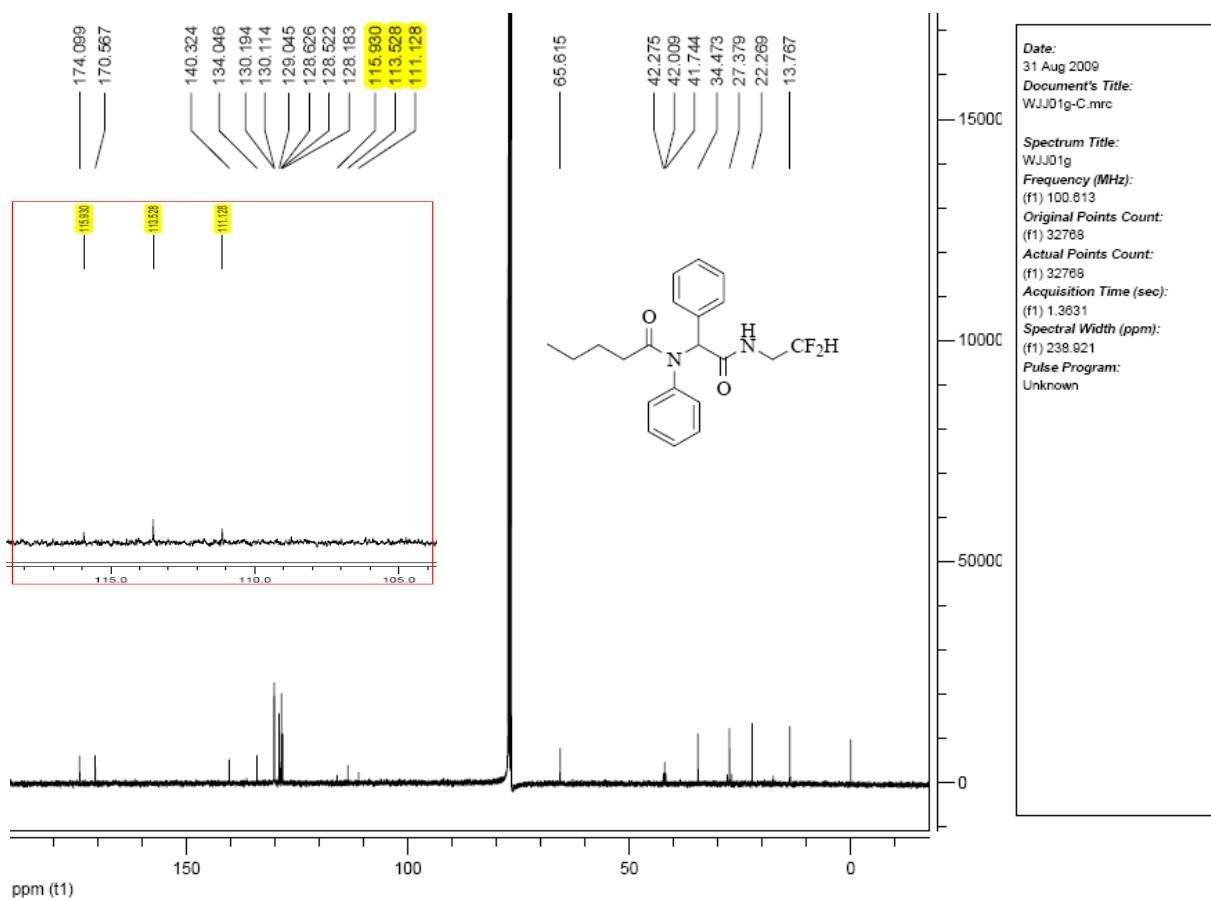
### HRMS (ESI) spectra of **6f**



<sup>1</sup>H NMR spectra of **6g**

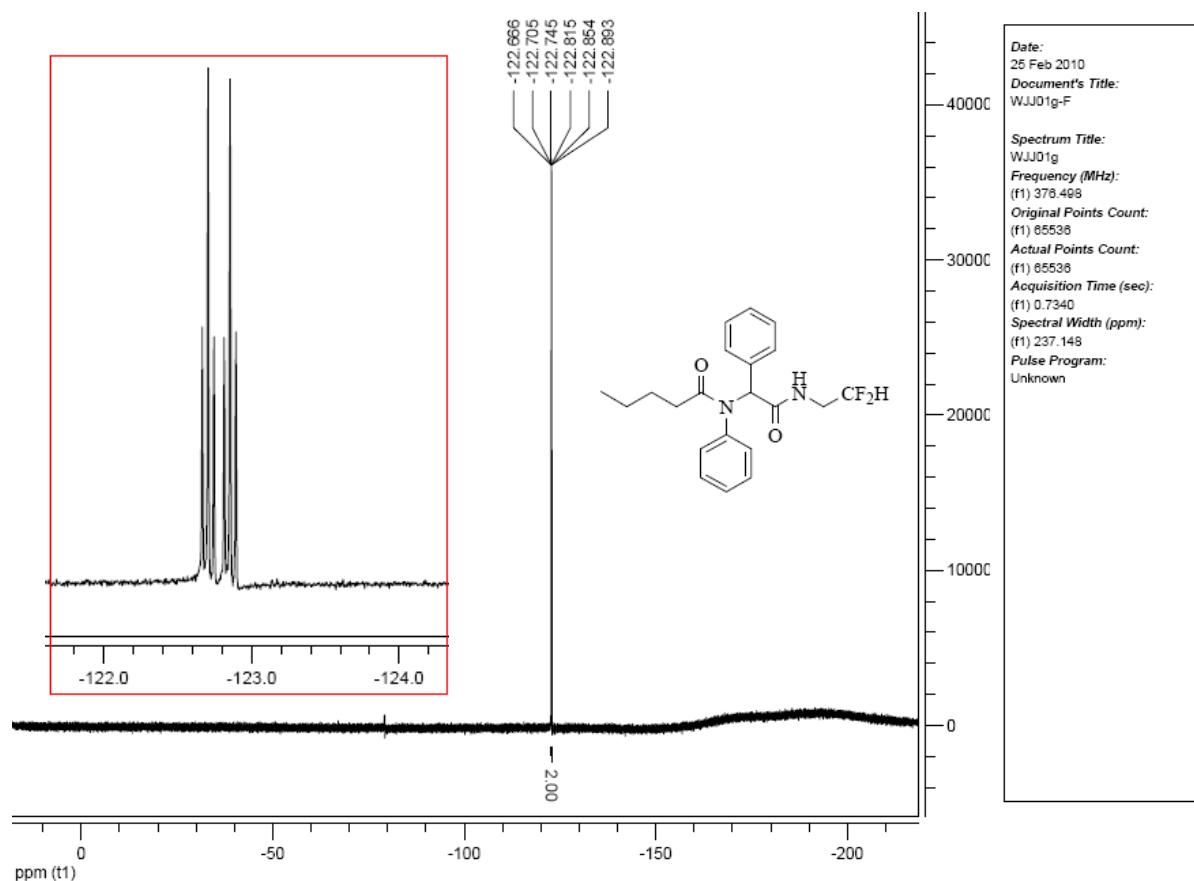


<sup>13</sup>C NMR spectra of **6g**

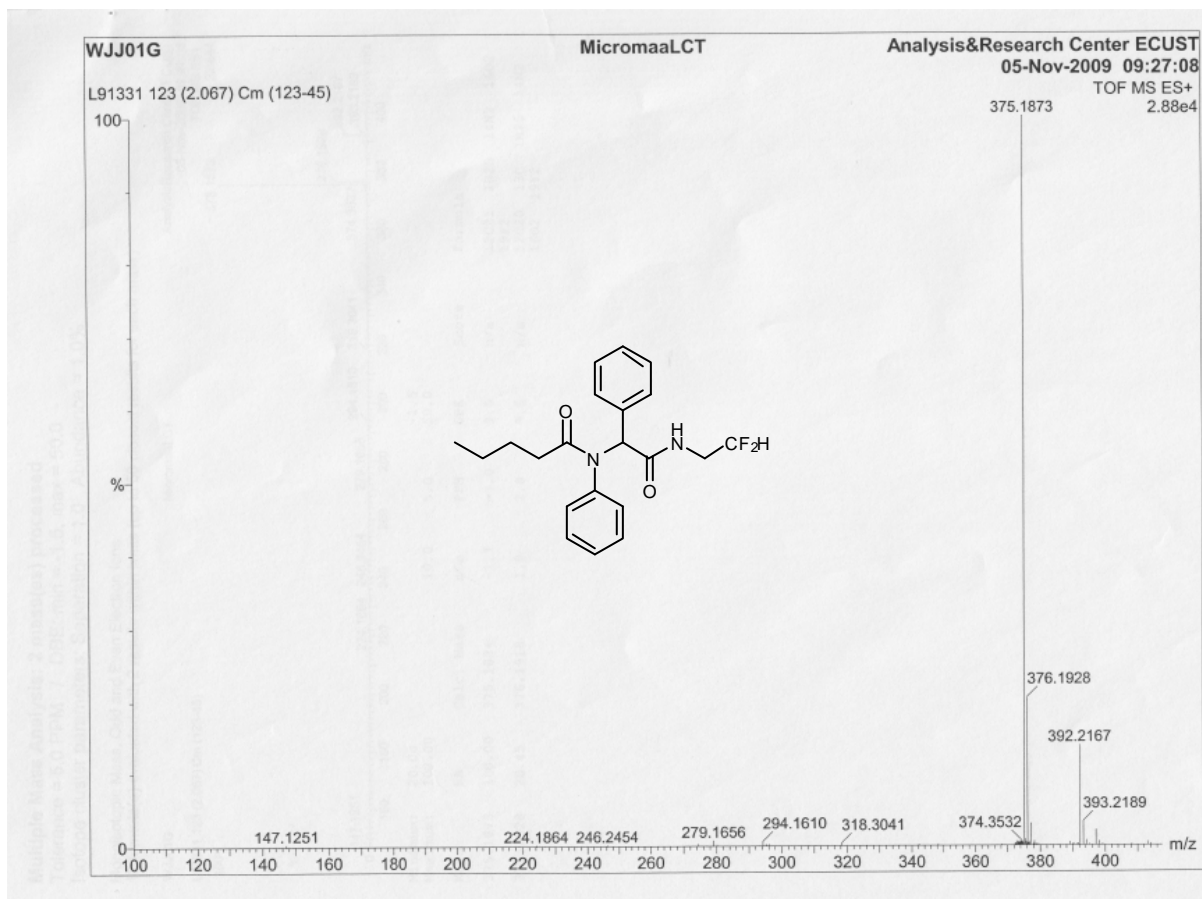




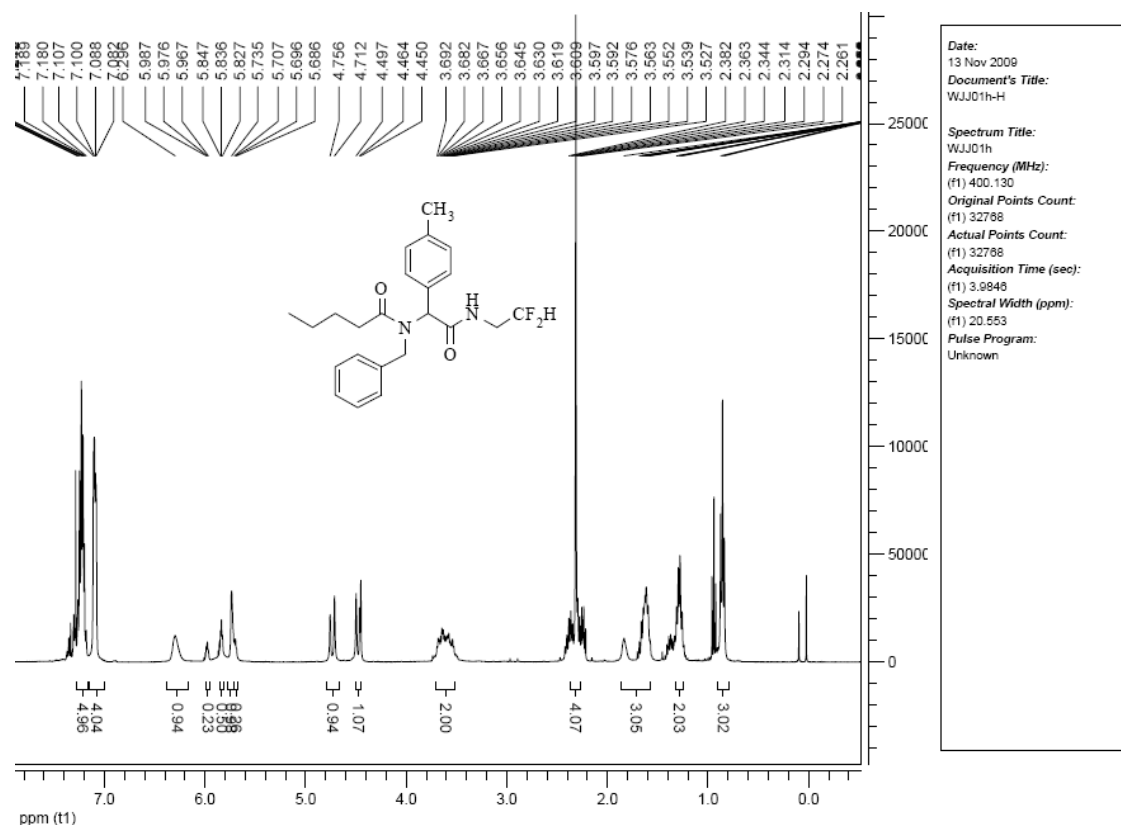
### $^{19}\text{F}$ NMR spectra of **6g**



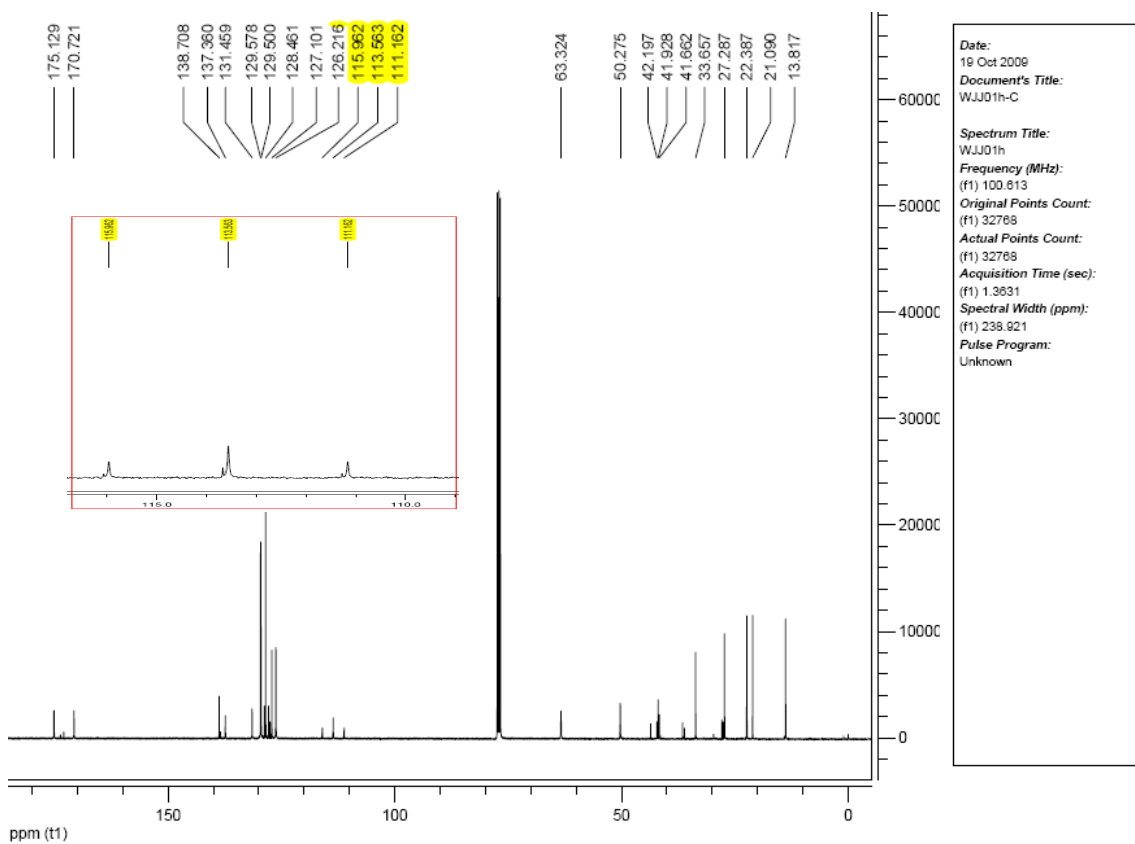
### HRMS (ESI) spectra of **6g**



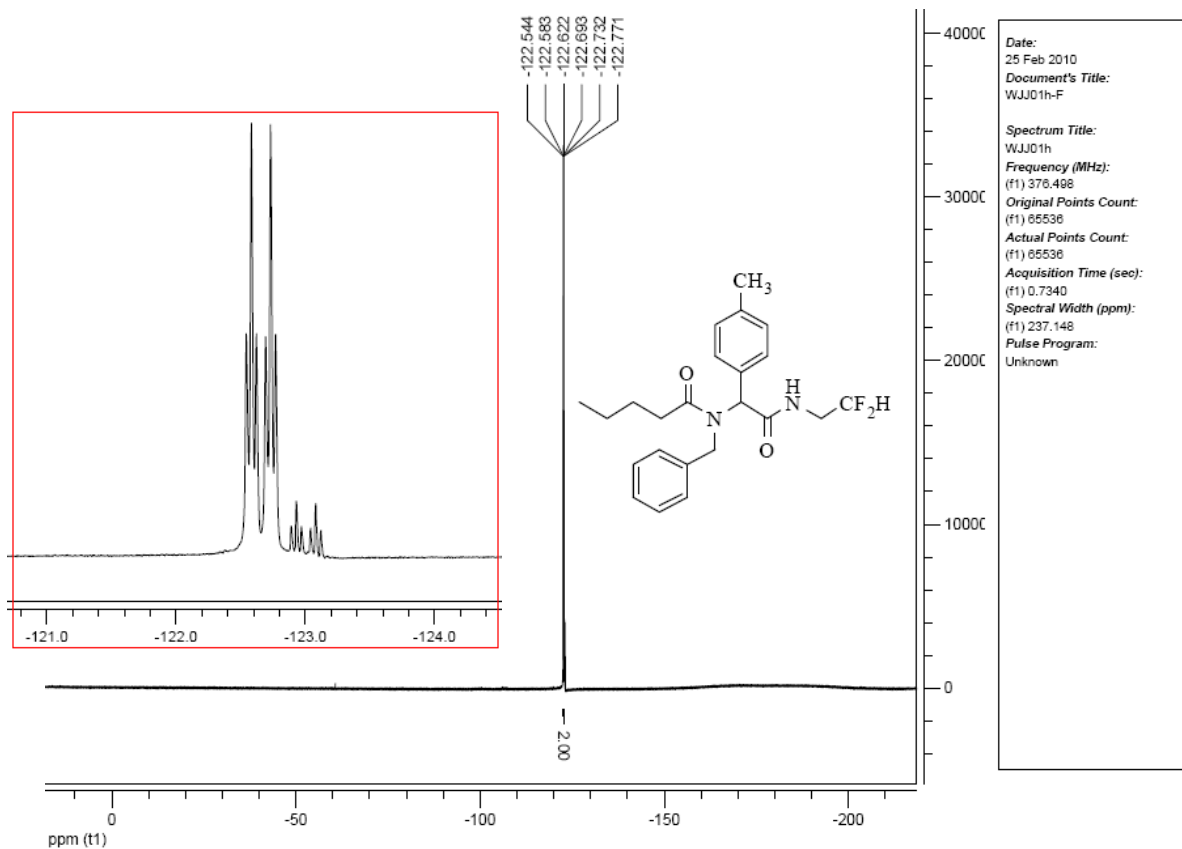
### $^1\text{H}$ NMR spectra of **6h**



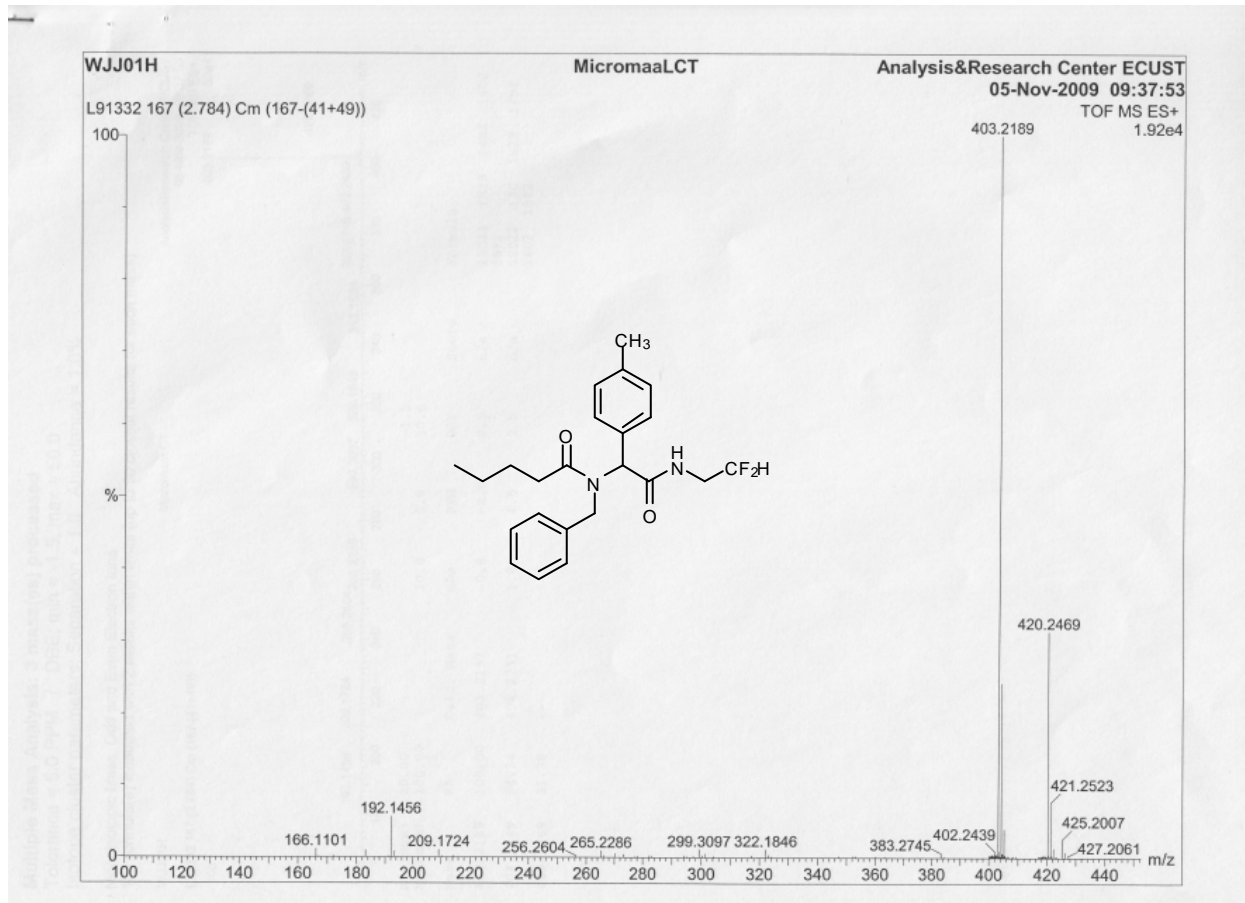
### $^{13}\text{C}$ NMR spectra of **6h**



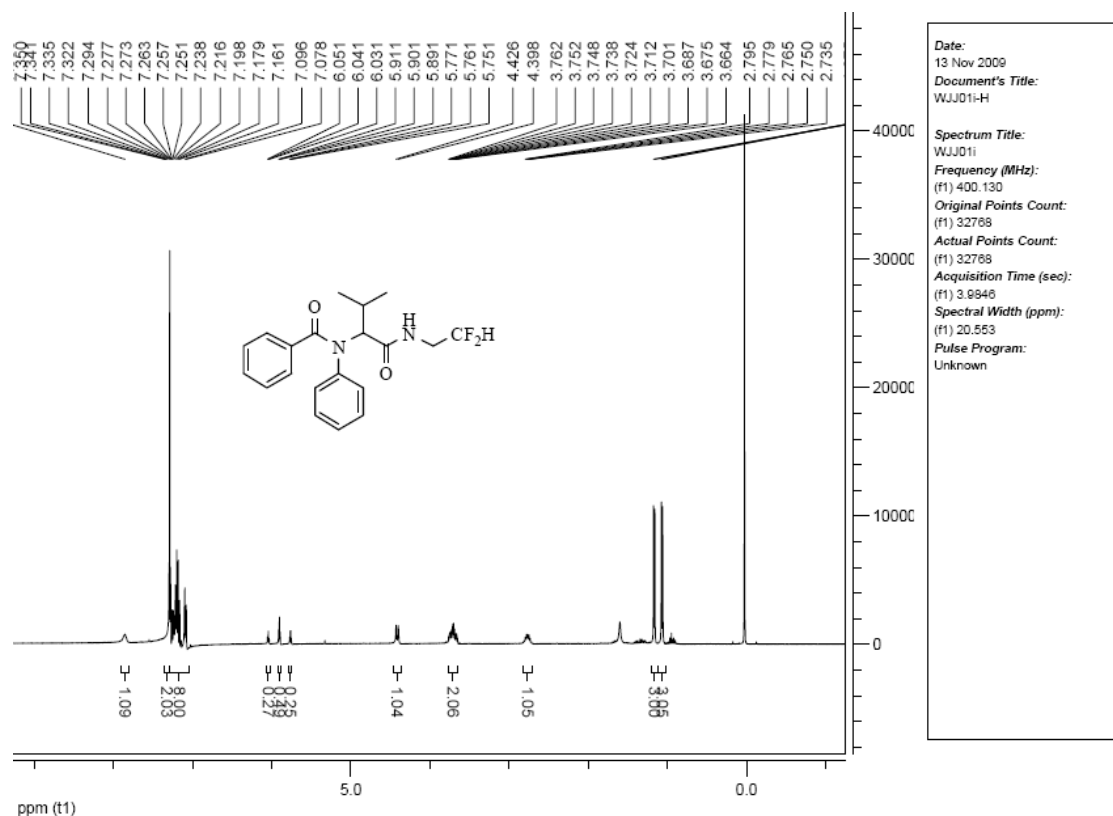
### $^{19}\text{F}$ NMR spectra of **6h**



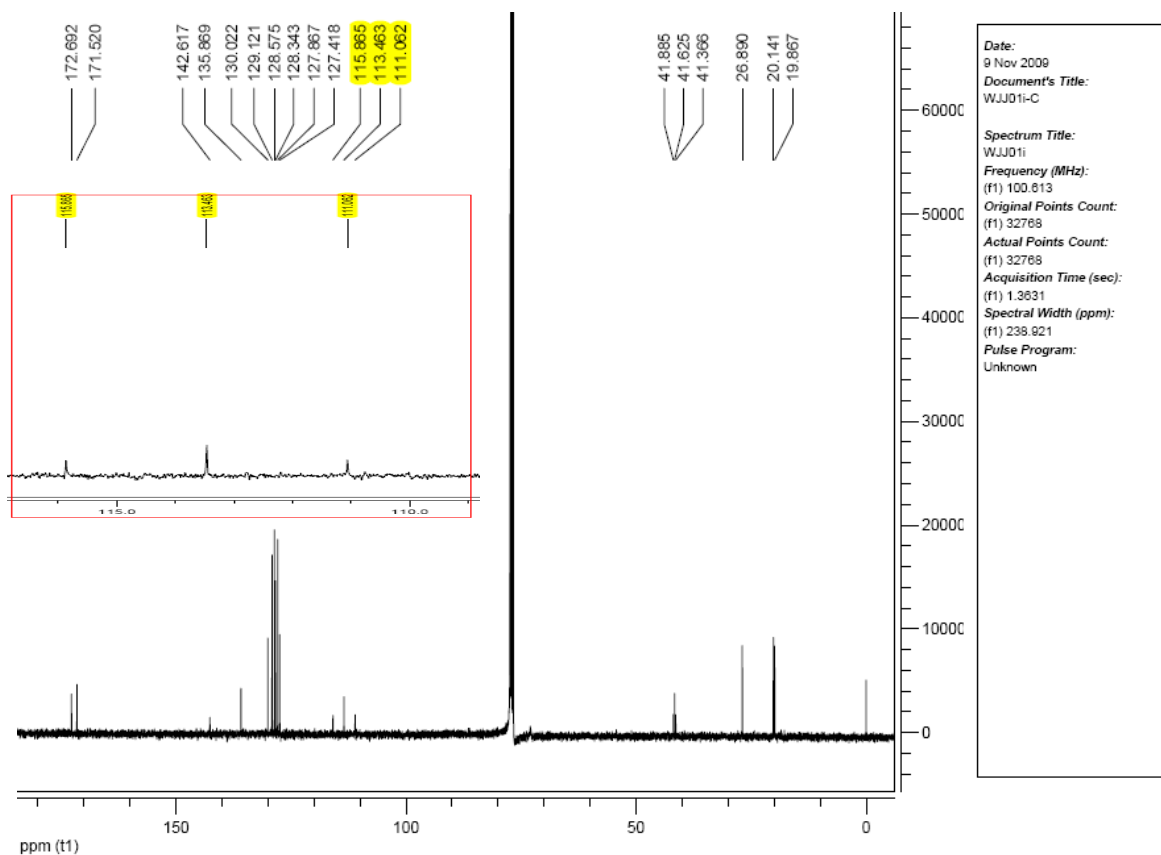
### HRMS (ESI) spectra of **6h**



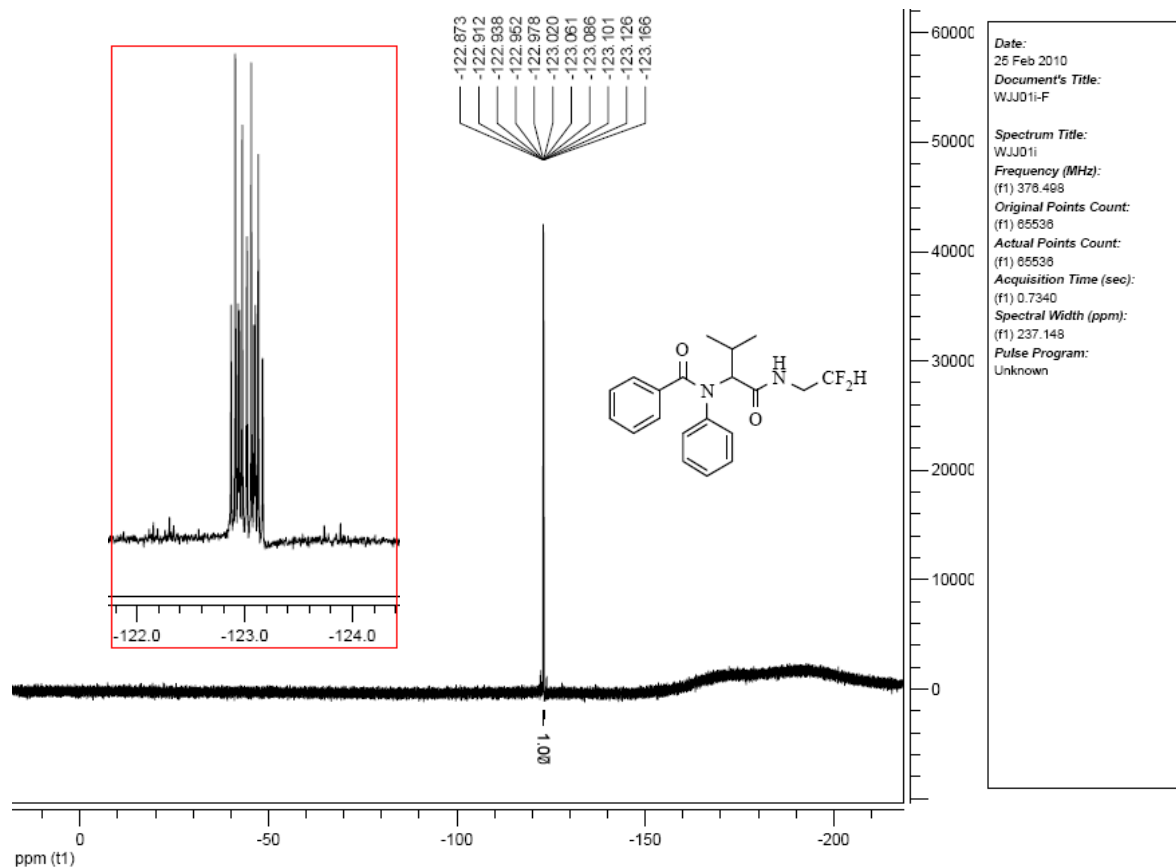
### <sup>1</sup>H NMR spectra of **6i**



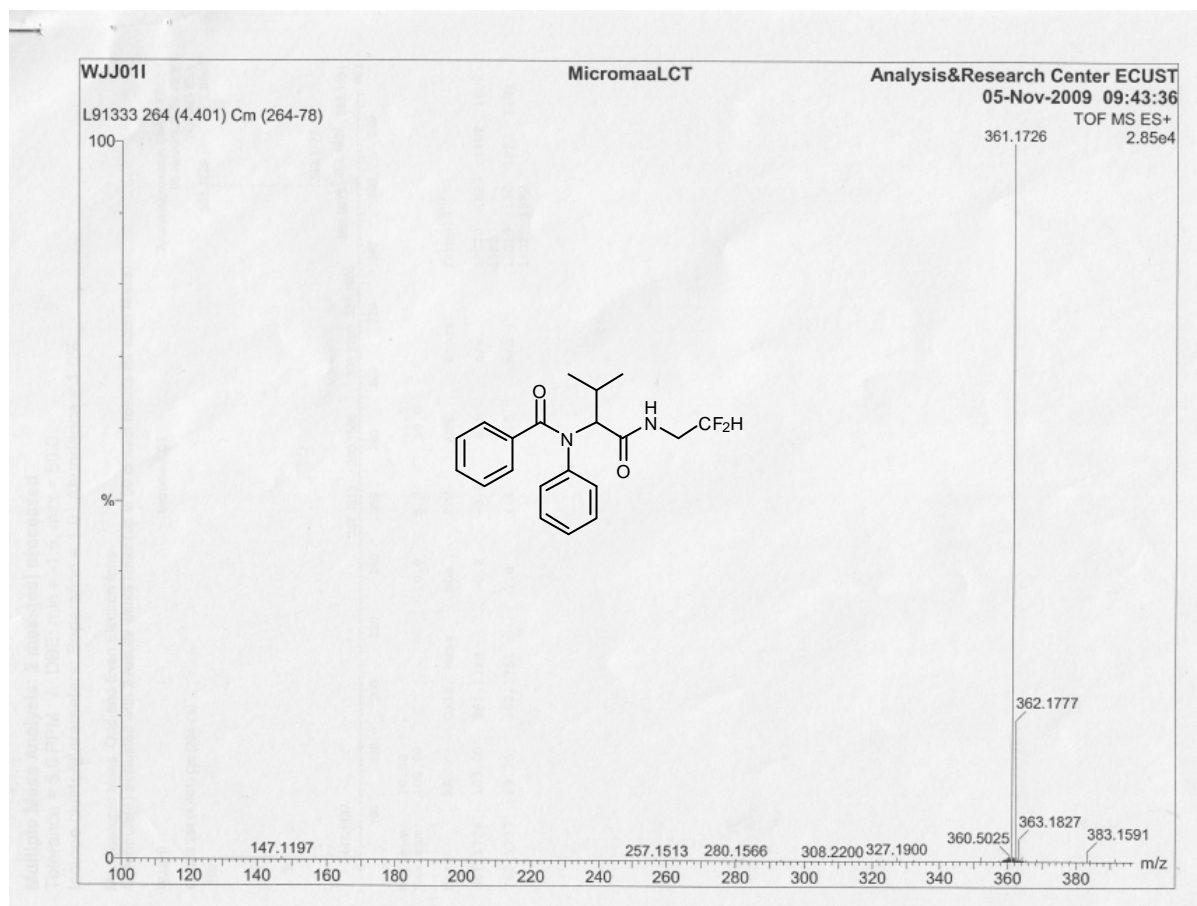
### <sup>13</sup>C NMR spectra of **6i**



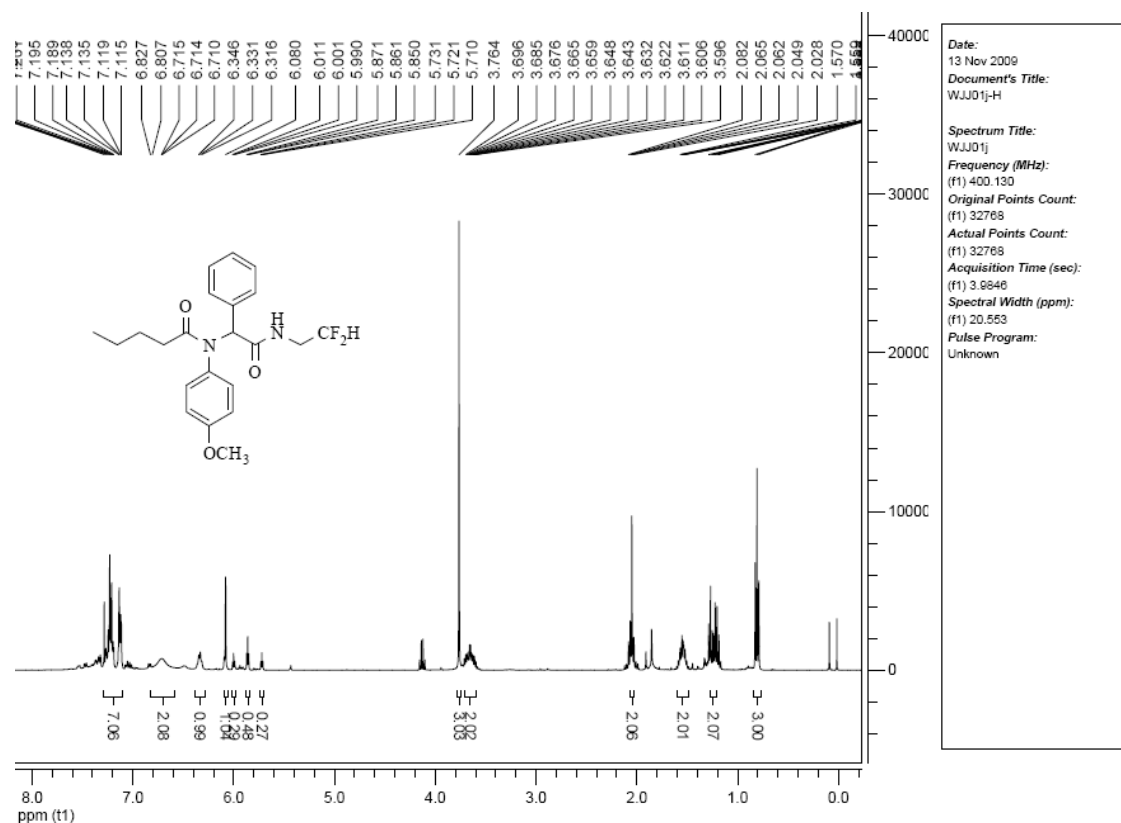
### $^{19}\text{F}$ NMR spectra of **6i**



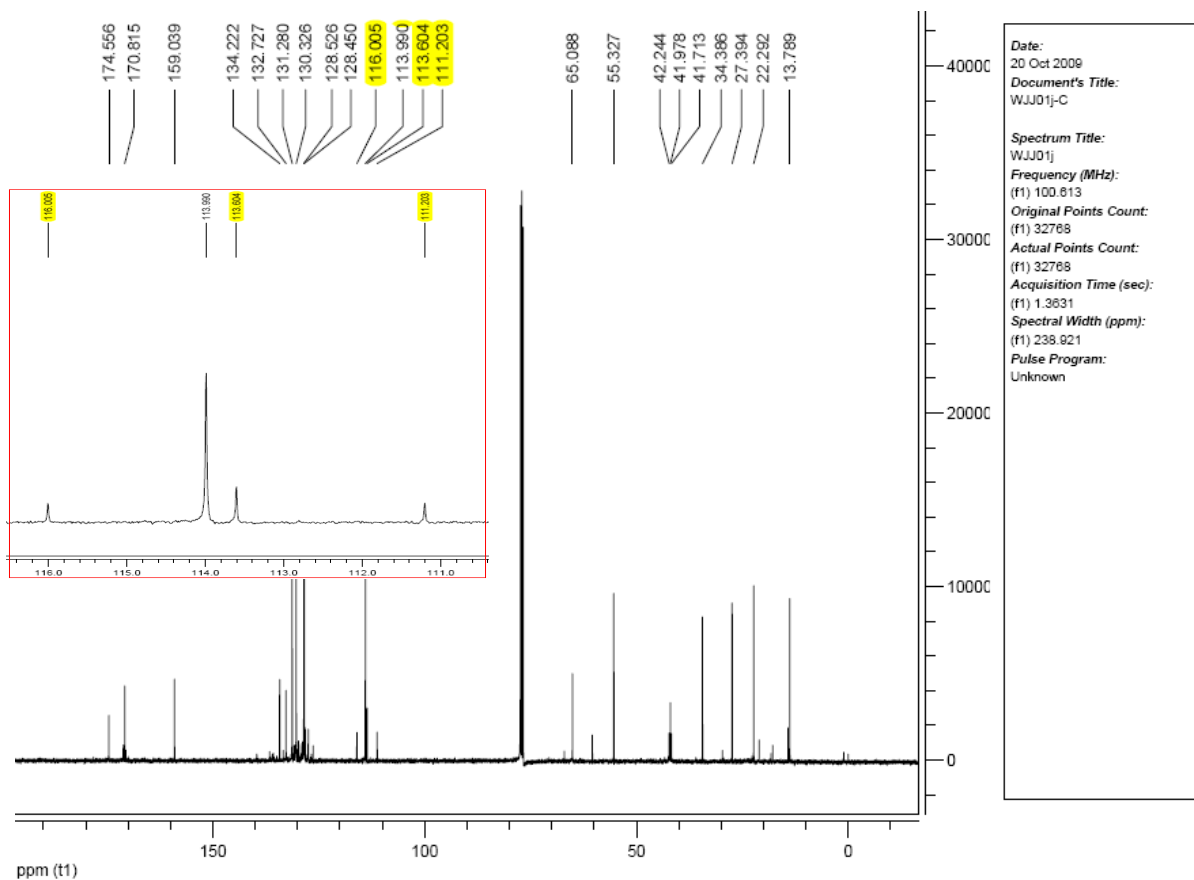
### HRMS (ESI) spectra of **6i**



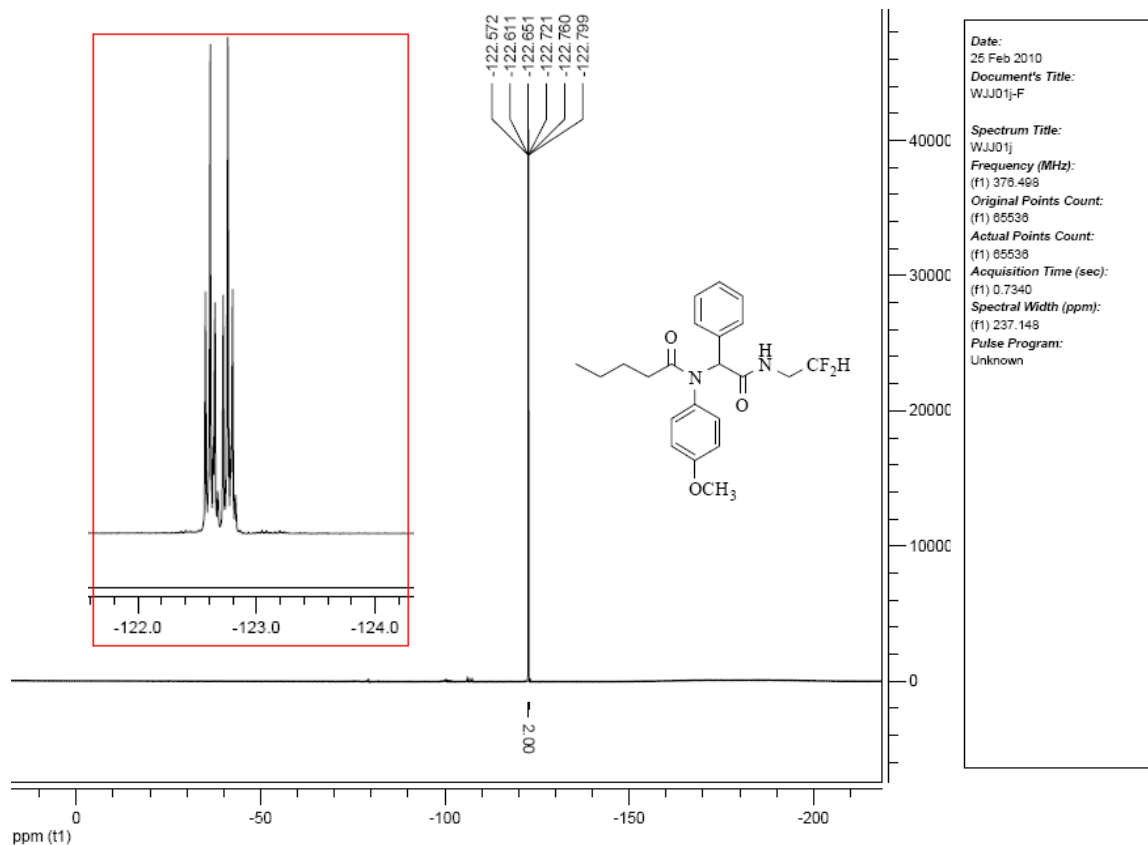
<sup>1</sup>H NMR spectra of **6j**



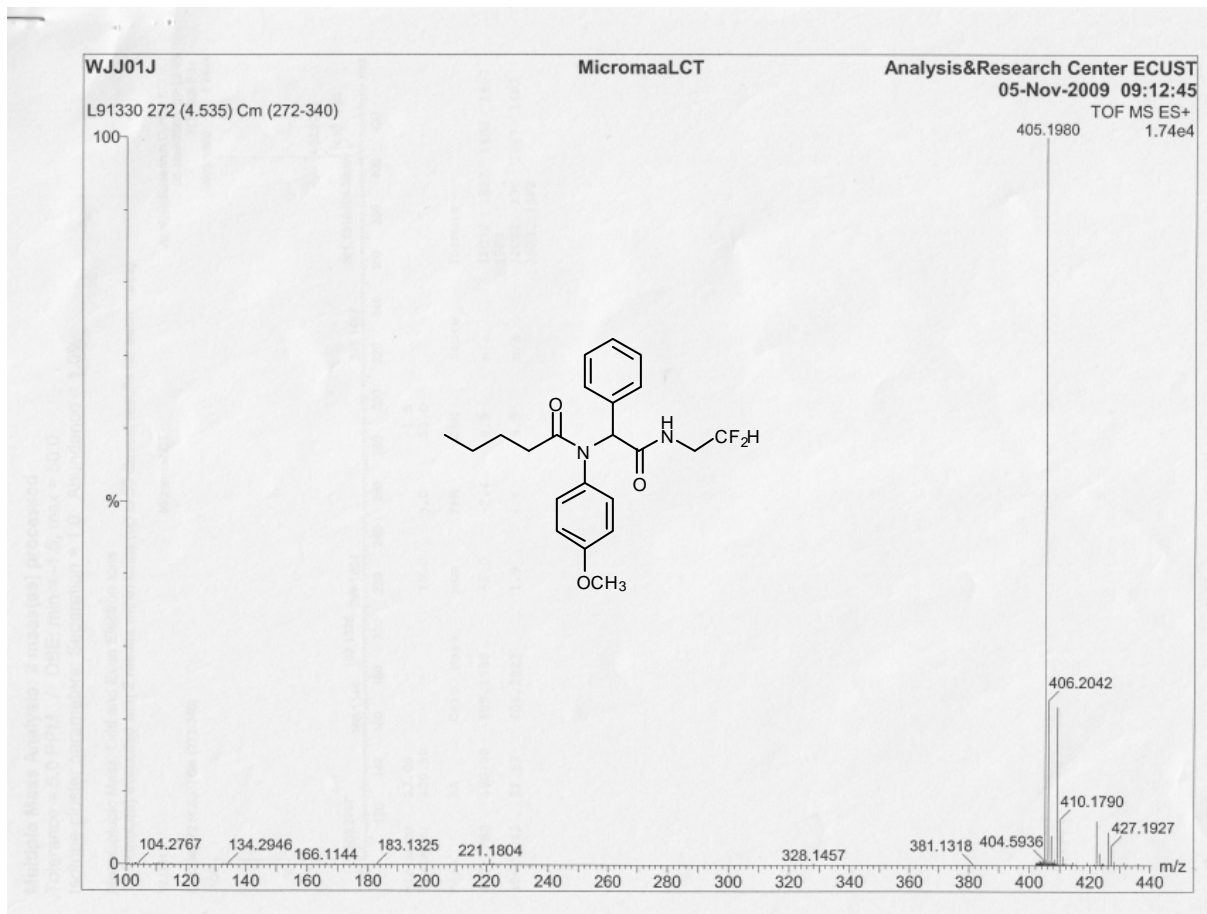
<sup>13</sup>C NMR spectra of **6j**



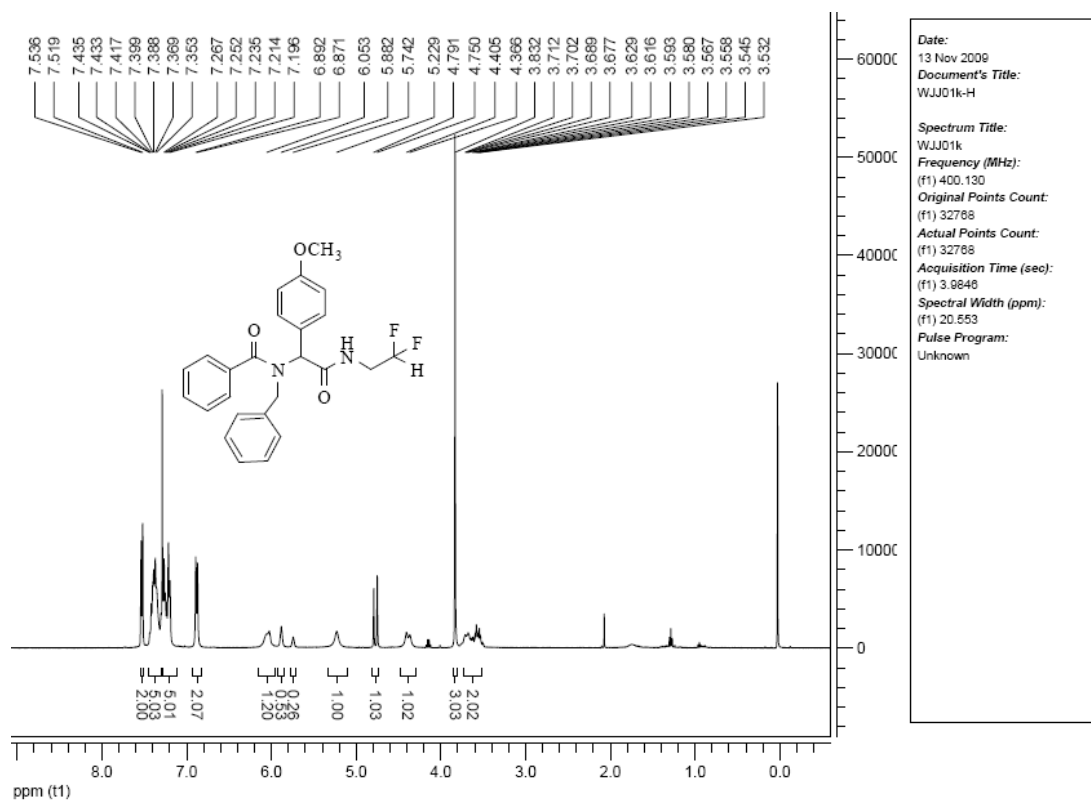
### $^{19}\text{F}$ NMR spectra of **6j**



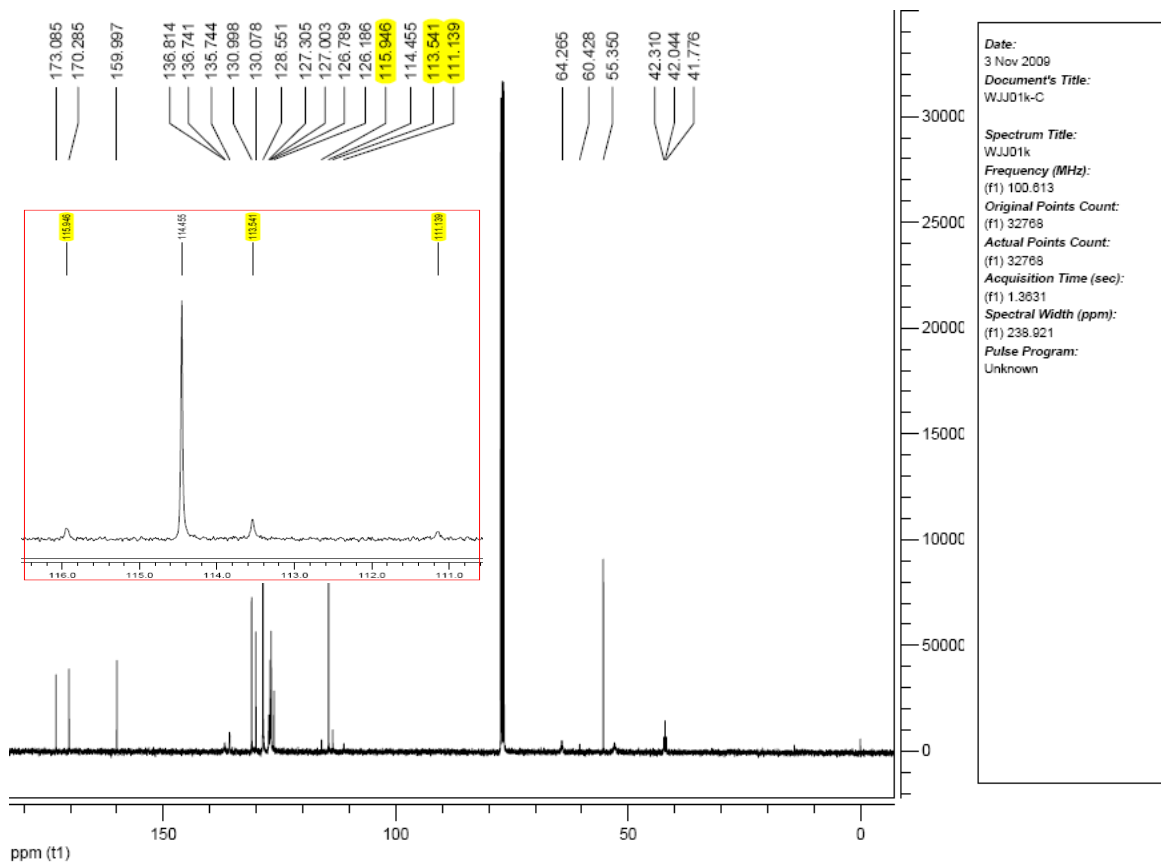
### HRMS (ESI) spectra of **6j**



<sup>1</sup>H NMR spectra of **6k**

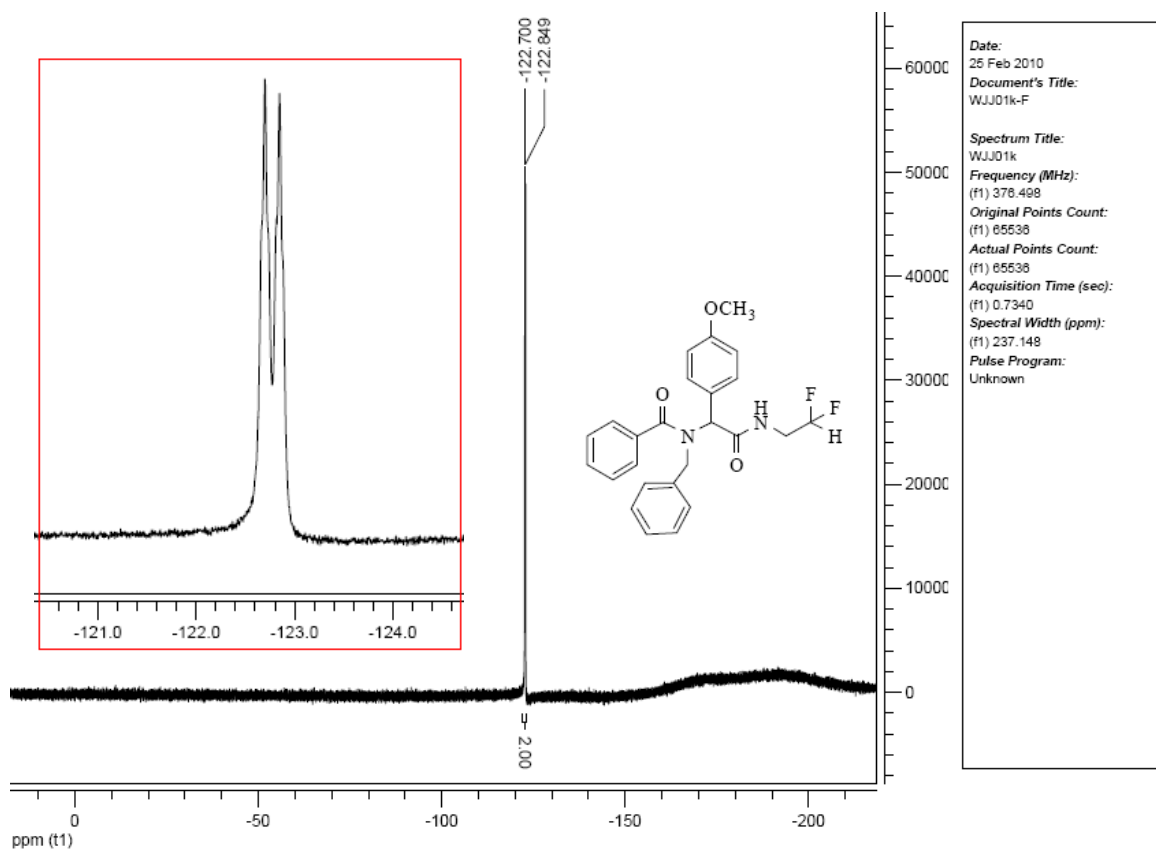


<sup>13</sup>C NMR spectra of **6k**





### $^{19}\text{F}$ NMR spectra of **6k**



### HRMS (ESI) spectra of **6k**

