

# **Supporting Information**

**for**

## **Metal-free formal synthesis of phenoxazine**

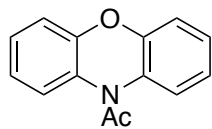
Gabriella Kervefors, Antonia Becker, Chandan Dey and Berit Olofsson\*

Address: Department of Organic Chemistry, Arrhenius Laboratory, Stockholm University, SE-106-91 Stockholm, Sweden

\* Corresponding author

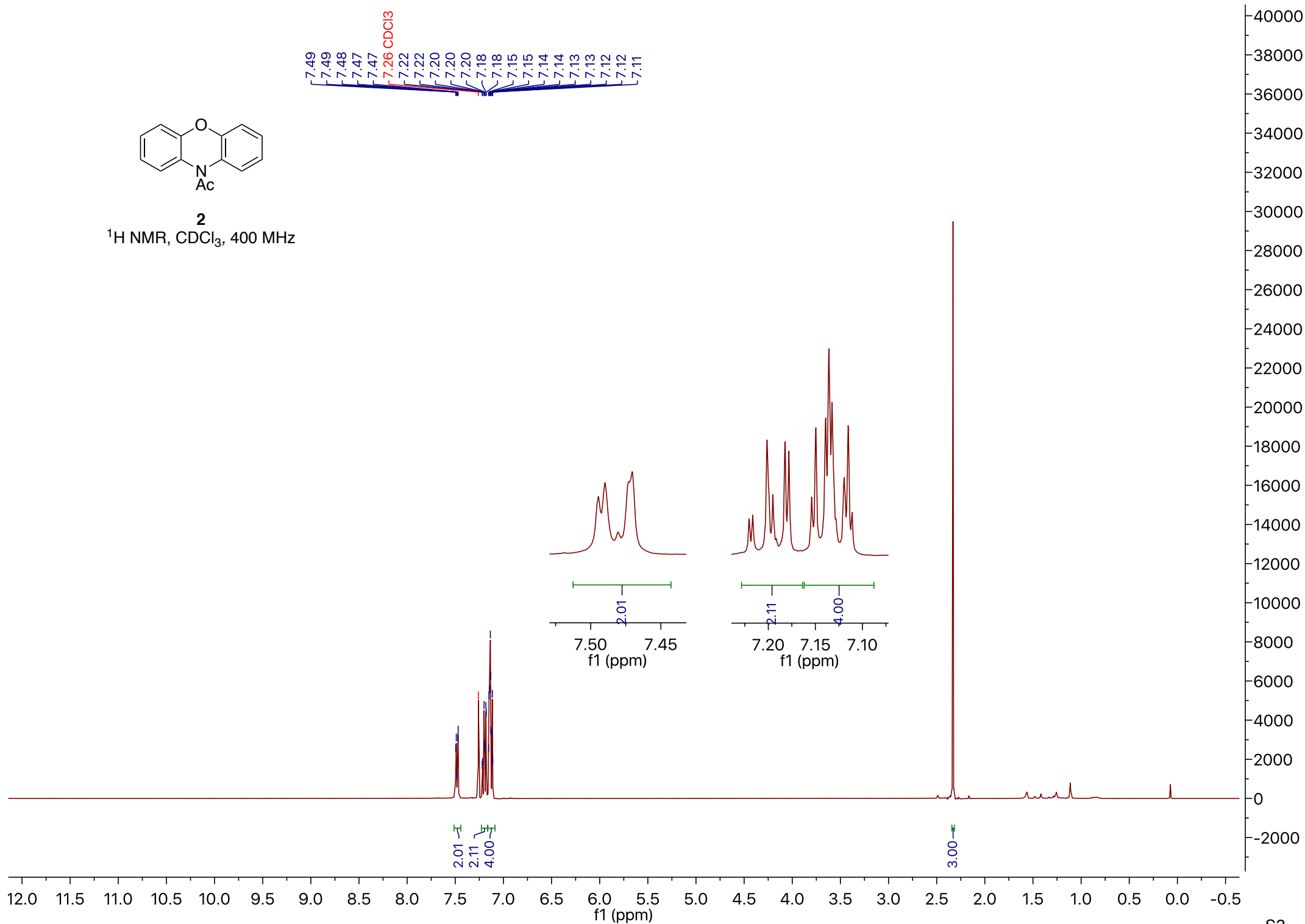
Email: Berit Olofsson - [berit.olofsson@su.se](mailto:berit.olofsson@su.se)

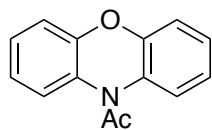
**NMR spectra for products 2, 3, 5a, 7a and 11**



**2**

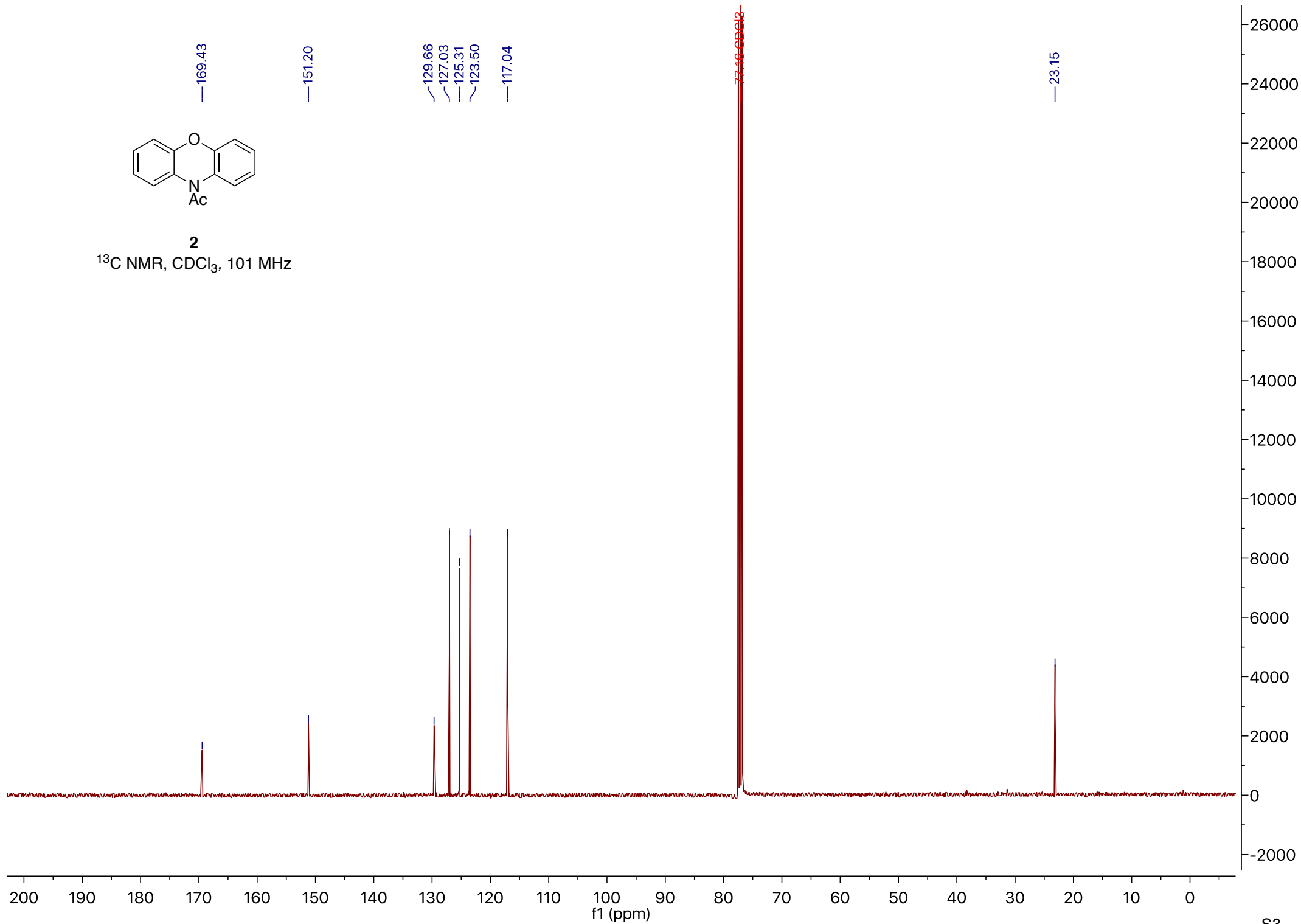
$^1\text{H}$  NMR,  $\text{CDCl}_3$ , 400 MHz

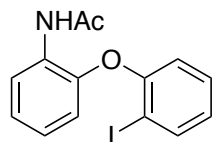




**2**

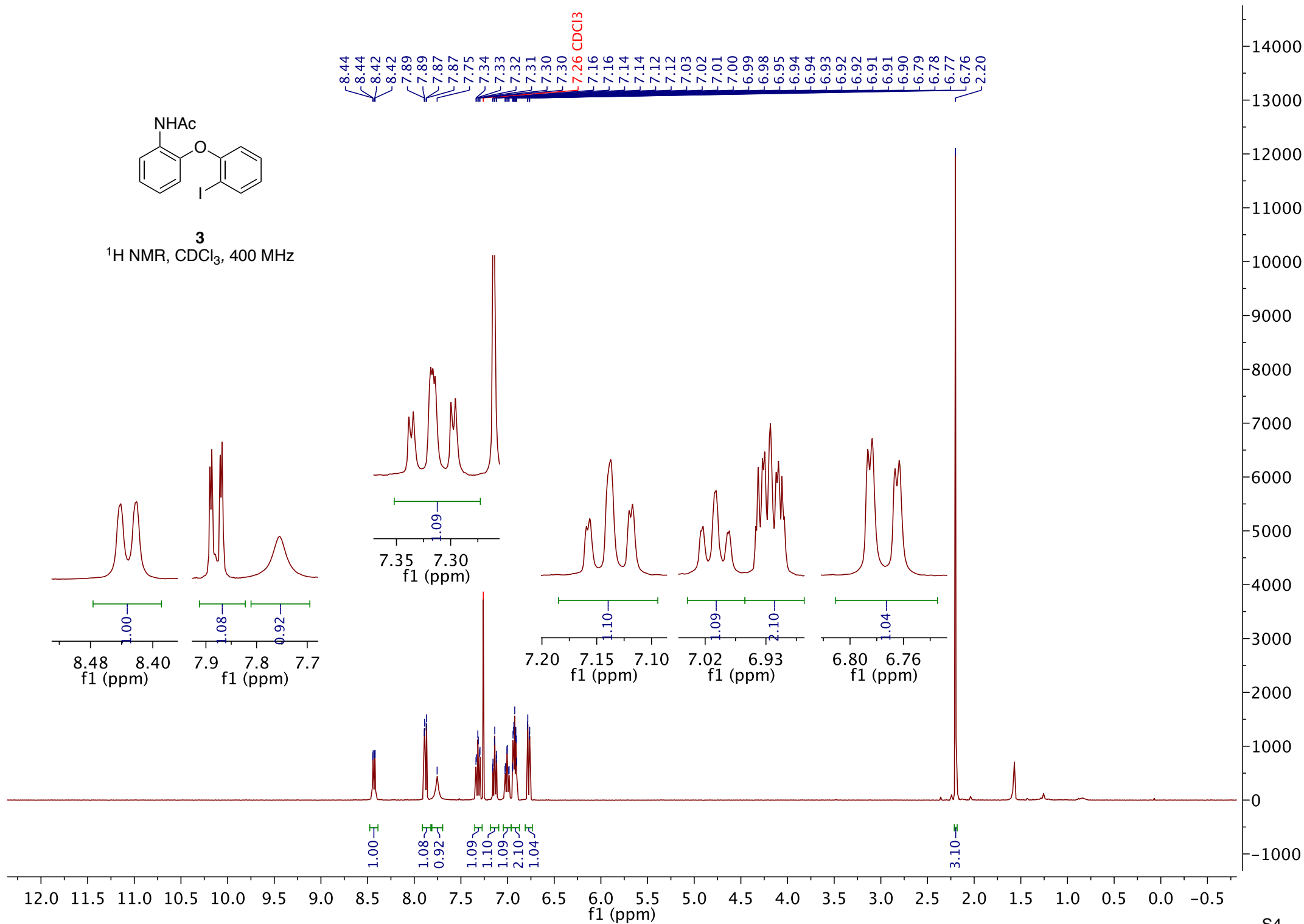
$^{13}\text{C}$  NMR,  $\text{CDCl}_3$ , 101 MHz

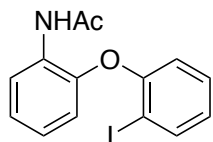




**3**

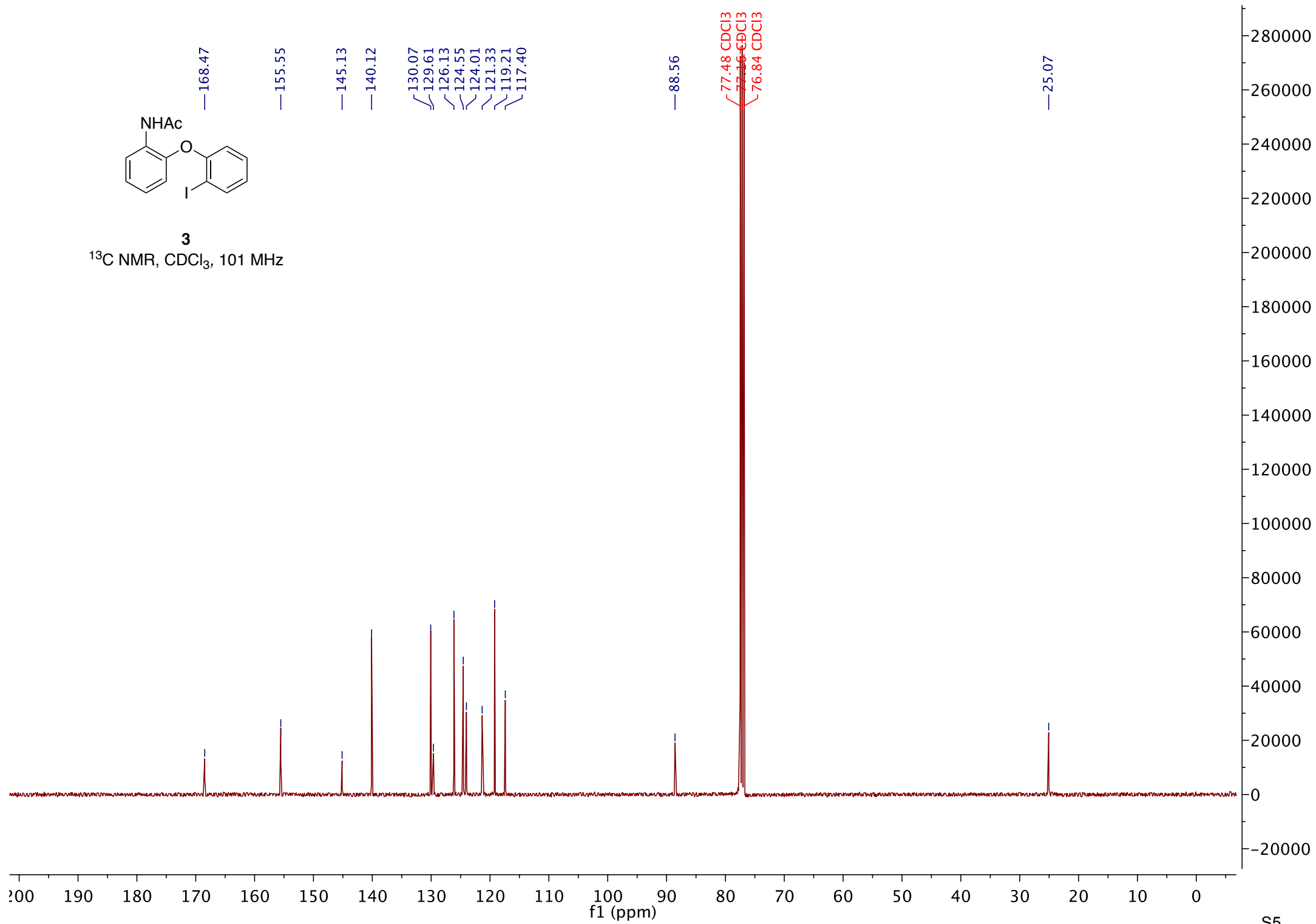
<sup>1</sup>H NMR, CDCl<sub>3</sub>, 400 MHz

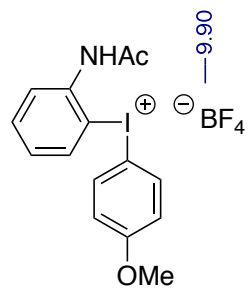




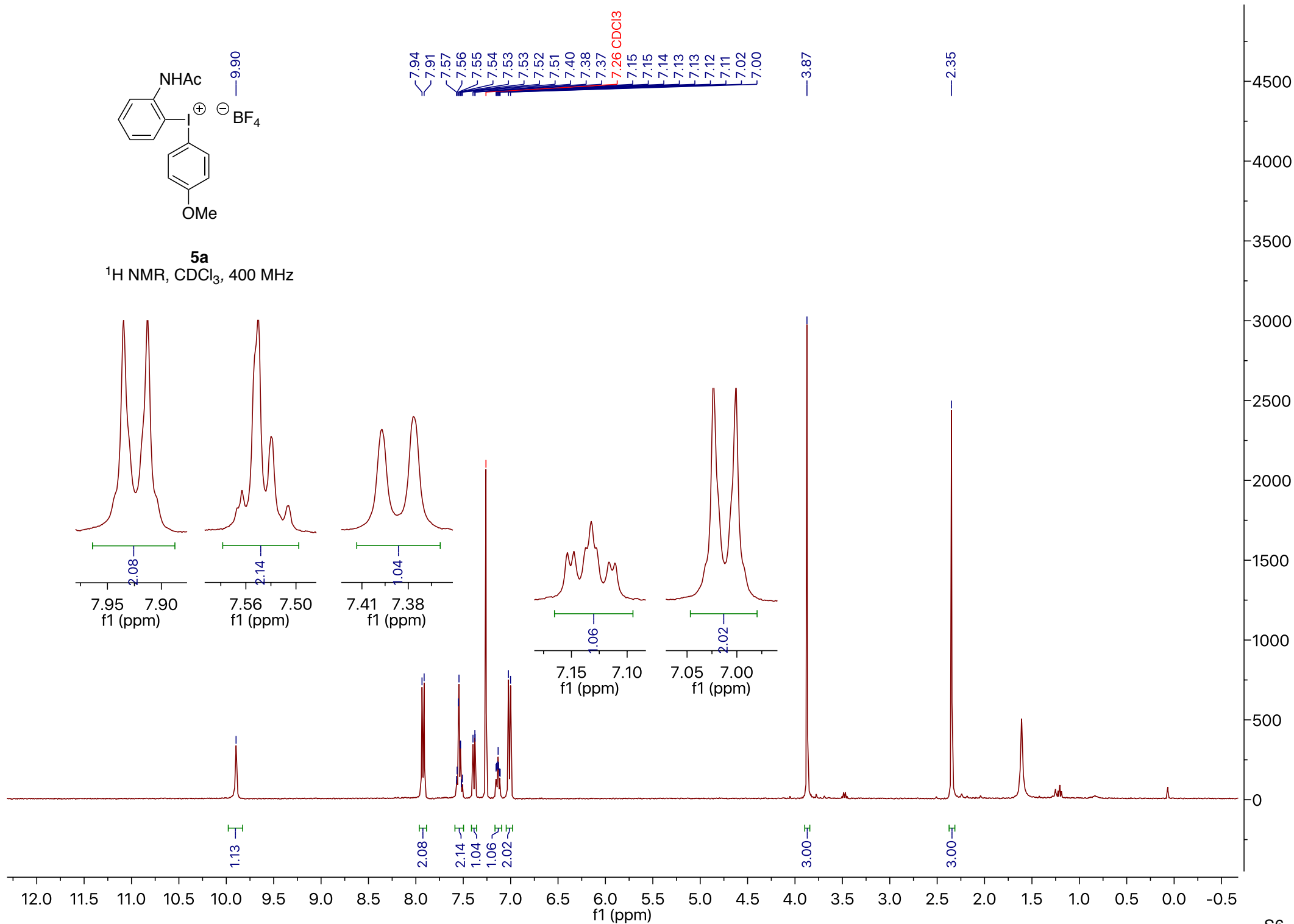
**3**

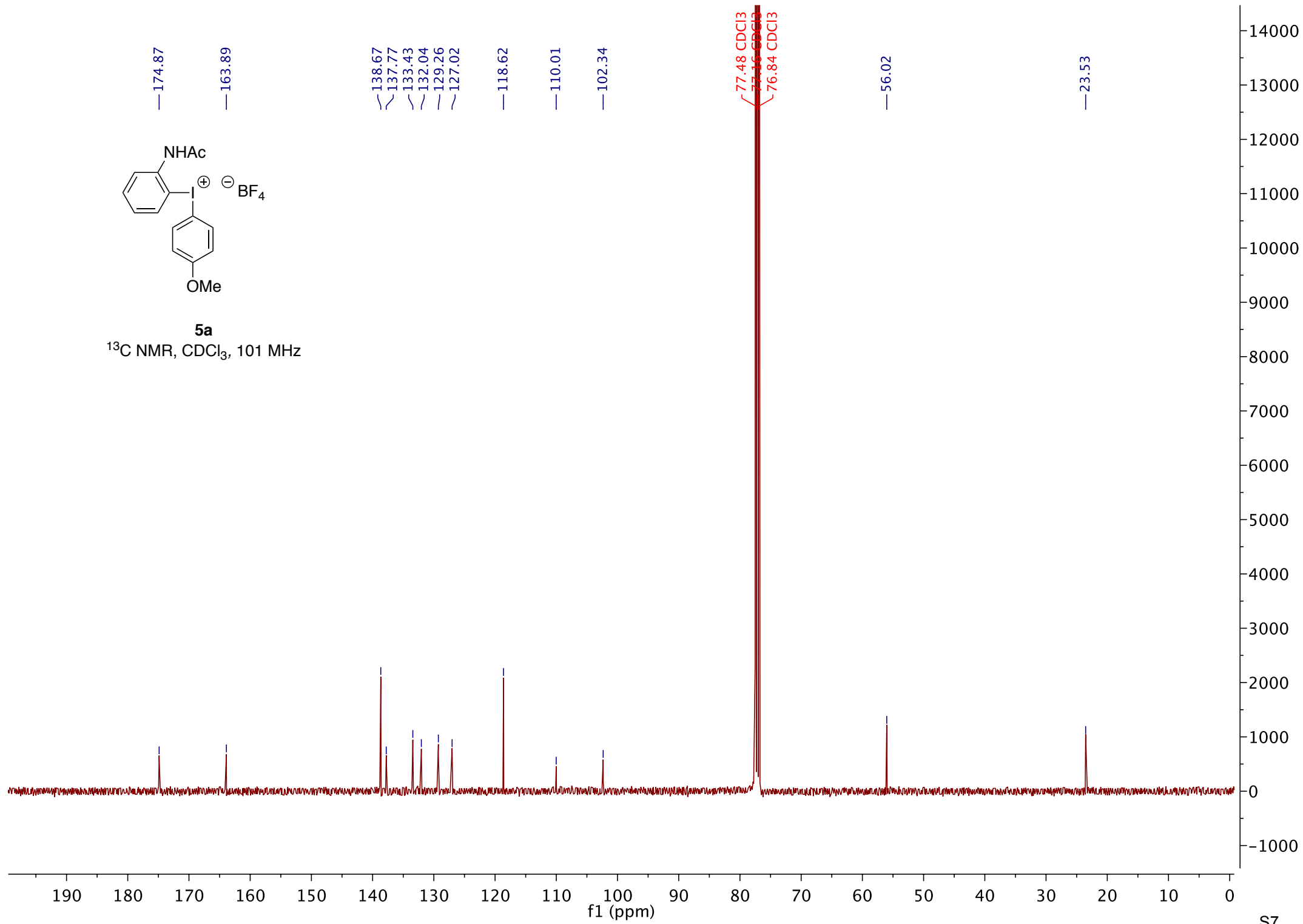
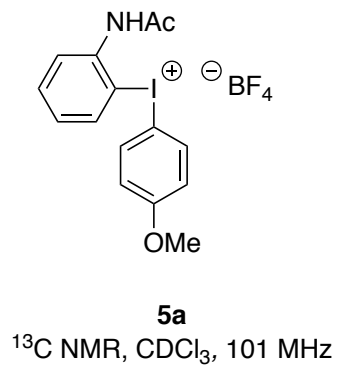
$^{13}\text{C}$  NMR,  $\text{CDCl}_3$ , 101 MHz

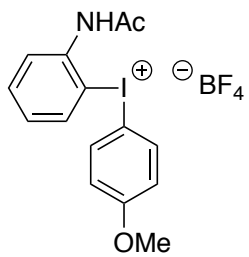




**5a**  
 $^1\text{H}$  NMR,  $\text{CDCl}_3$ , 400 MHz

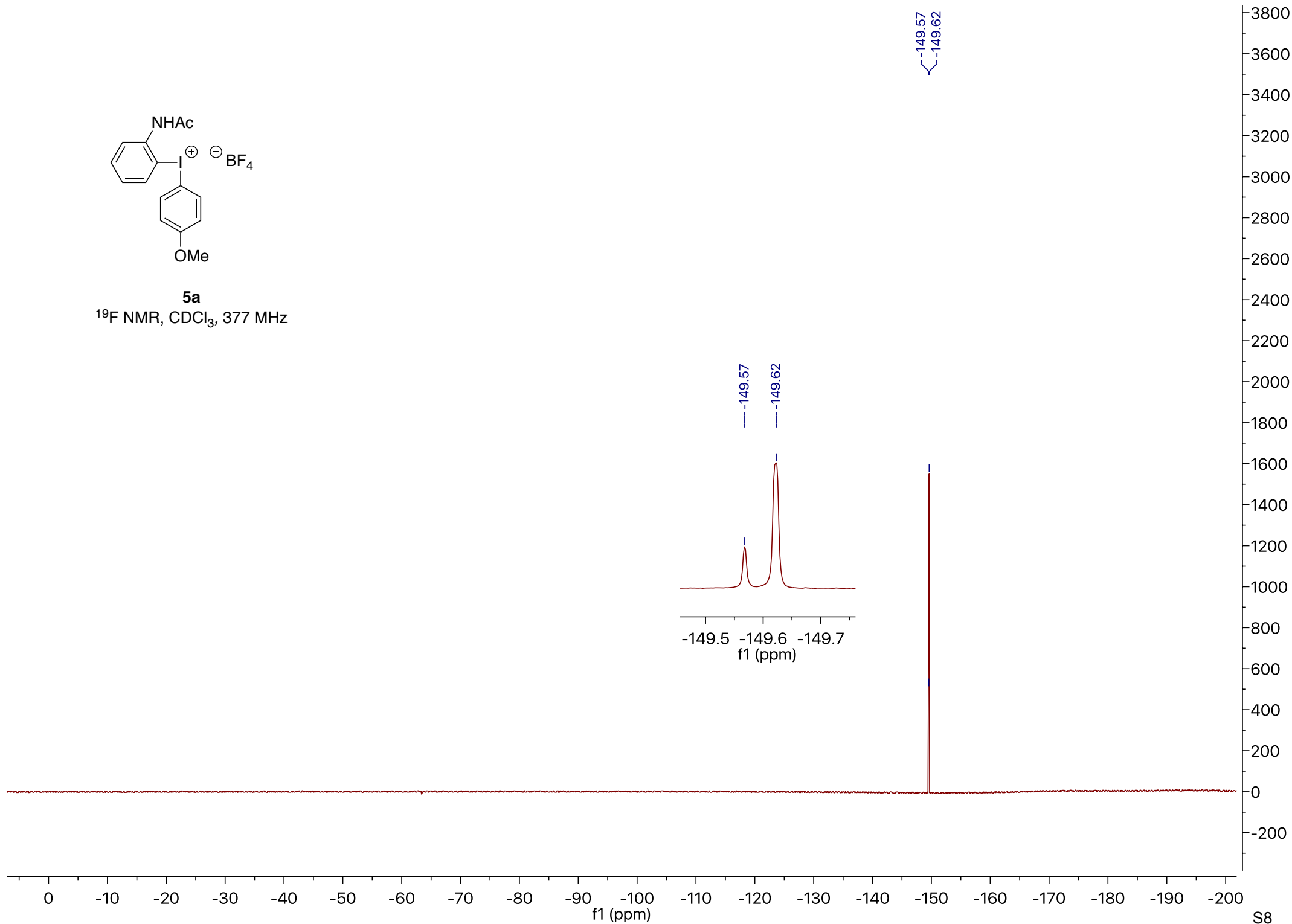




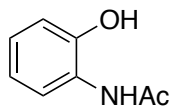


**5a**

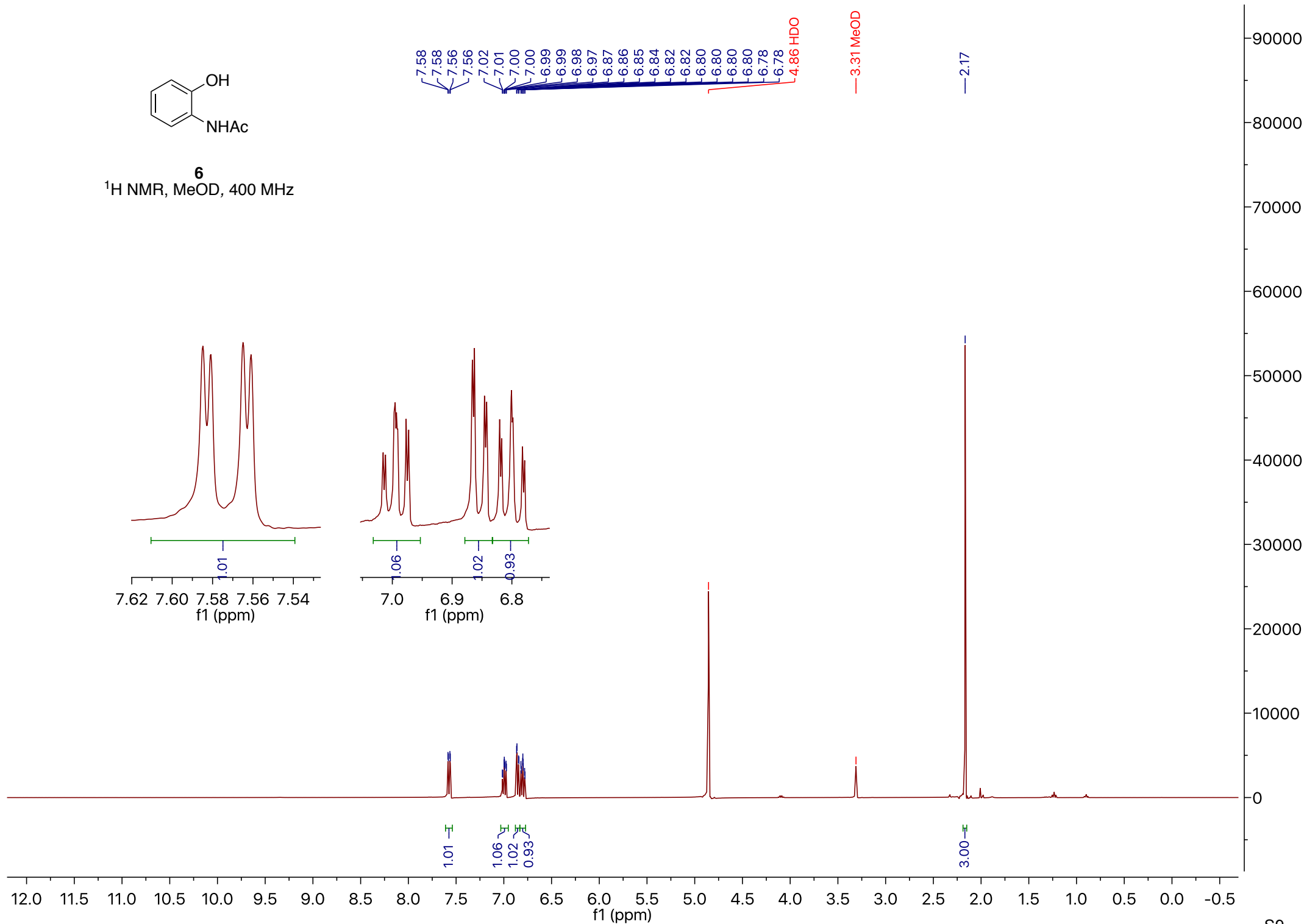
$^{19}\text{F}$  NMR,  $\text{CDCl}_3$ , 377 MHz

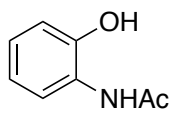






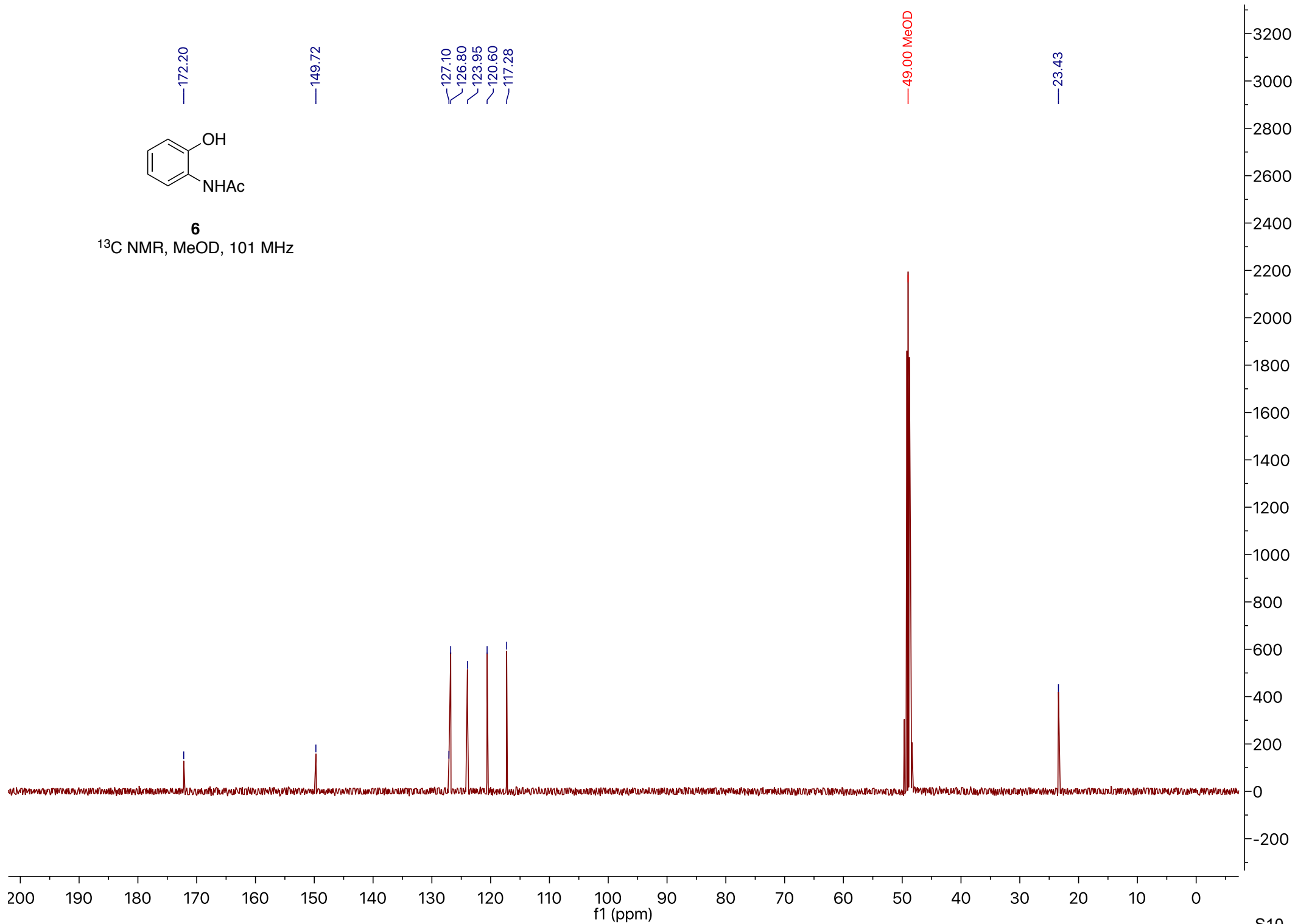
**6**  
<sup>1</sup>H NMR, MeOD, 400 MHz

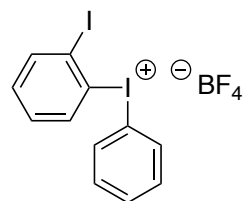




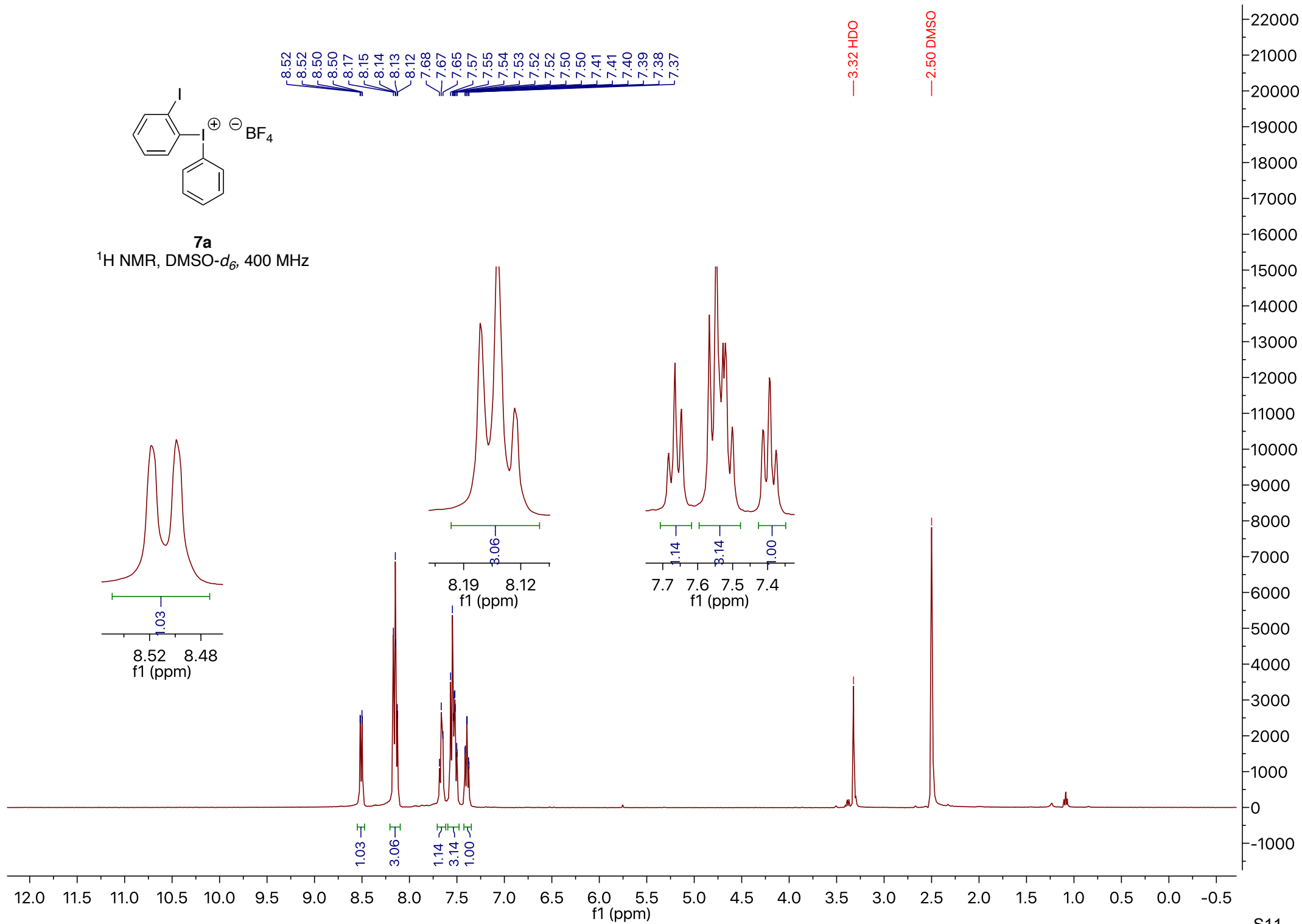
**6**

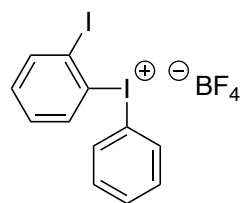
$^{13}\text{C}$  NMR, MeOD, 101 MHz





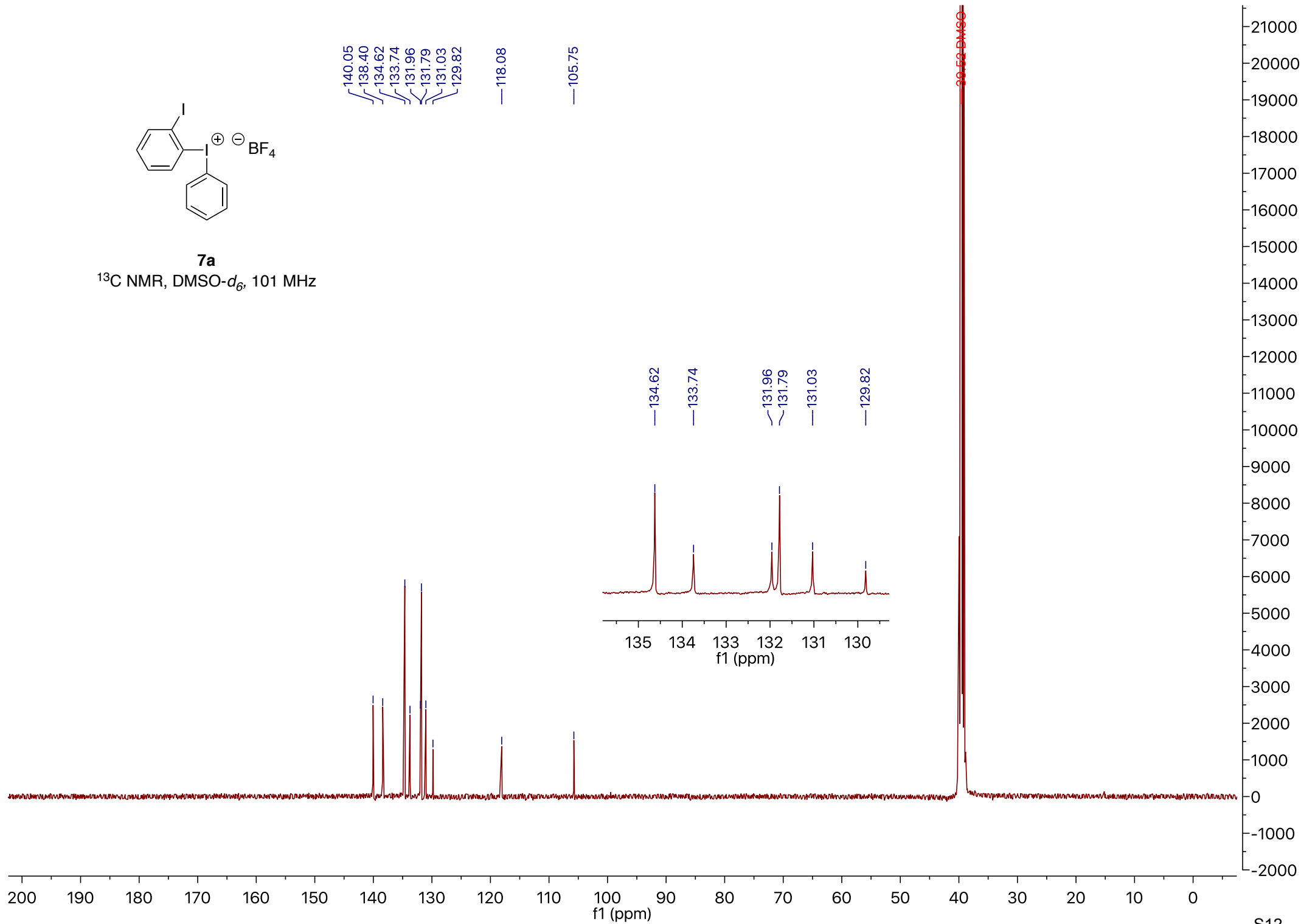
**7a**  
 $^1\text{H}$  NMR,  $\text{DMSO-}d_6$ , 400 MHz

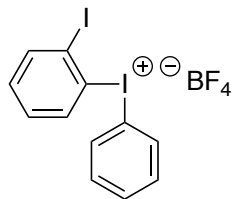




**7a**

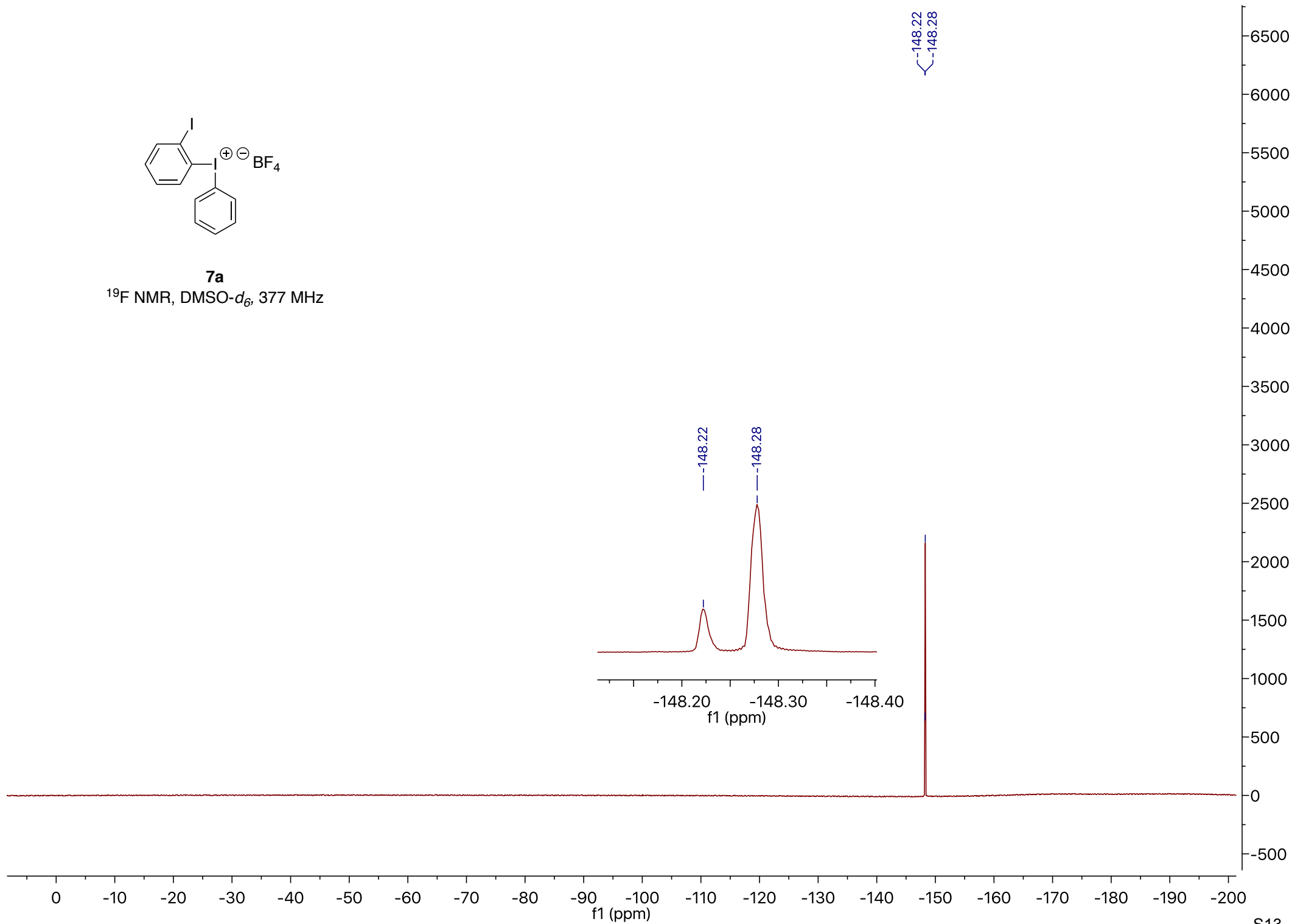
$^{13}\text{C}$  NMR,  $\text{DMSO-}d_6$ , 101 MHz

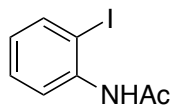




**7a**

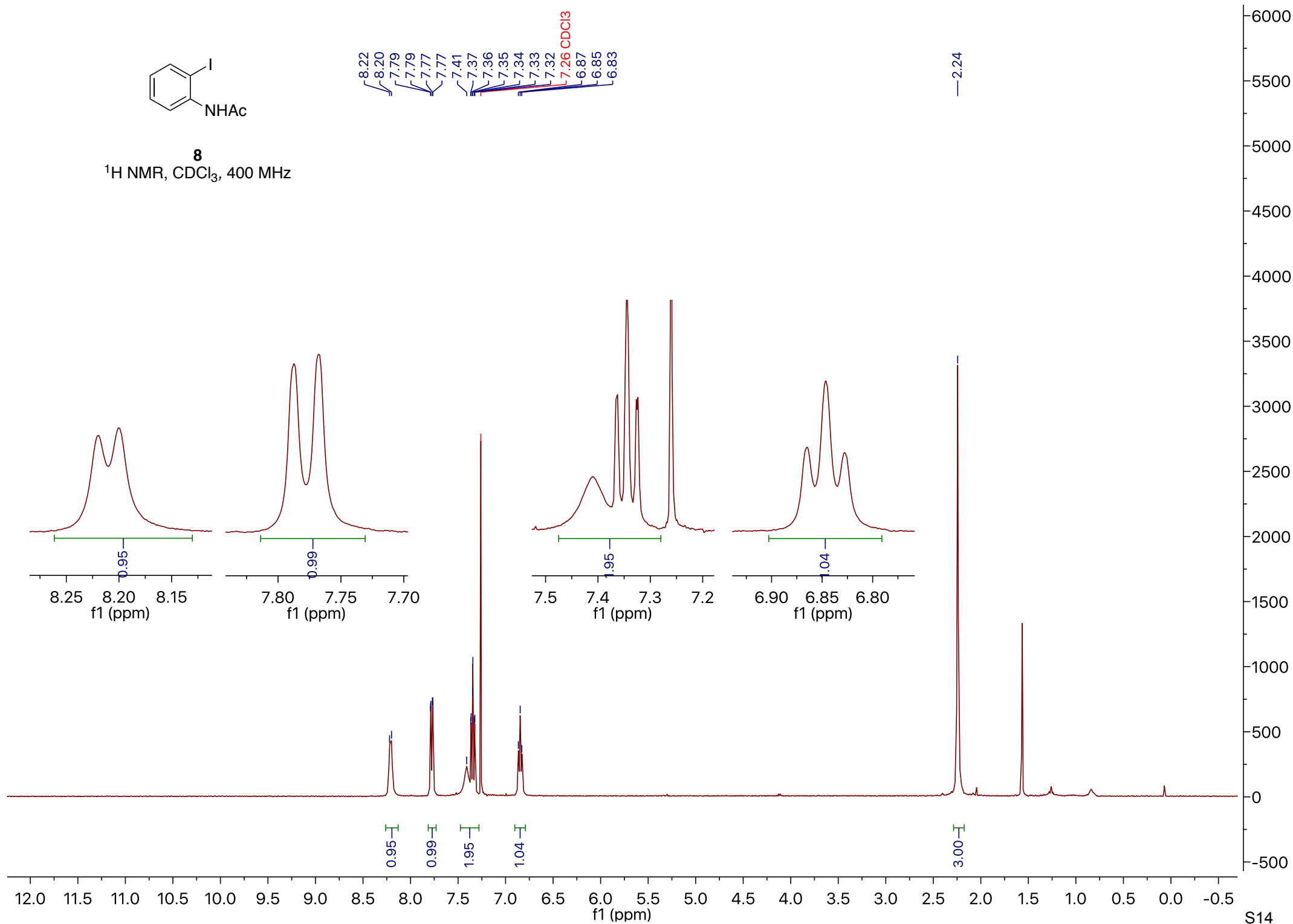
$^{19}\text{F}$  NMR, DMSO- $d_6$ , 377 MHz

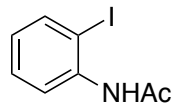




**8**

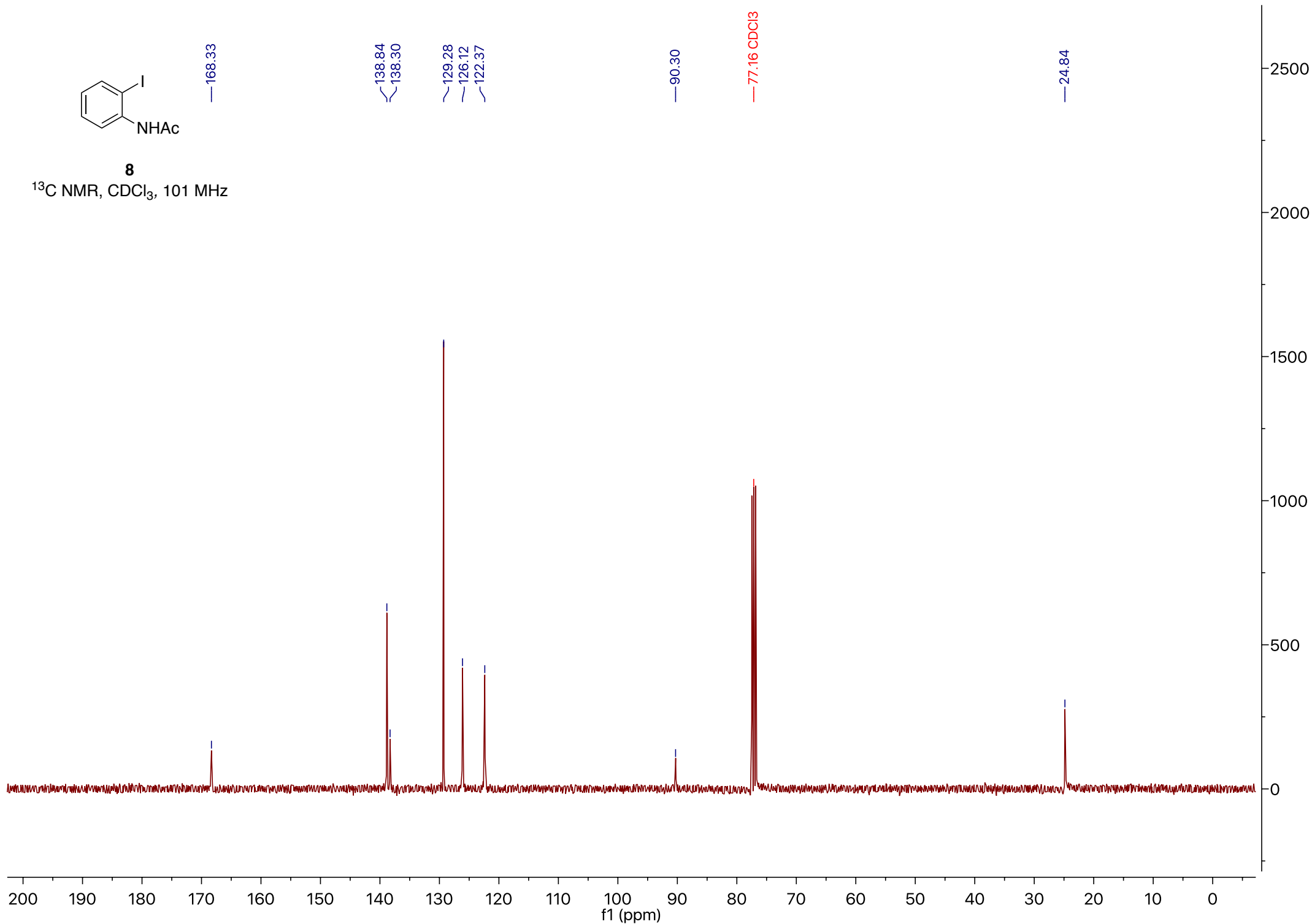
$^1\text{H}$  NMR,  $\text{CDCl}_3$ , 400 MHz



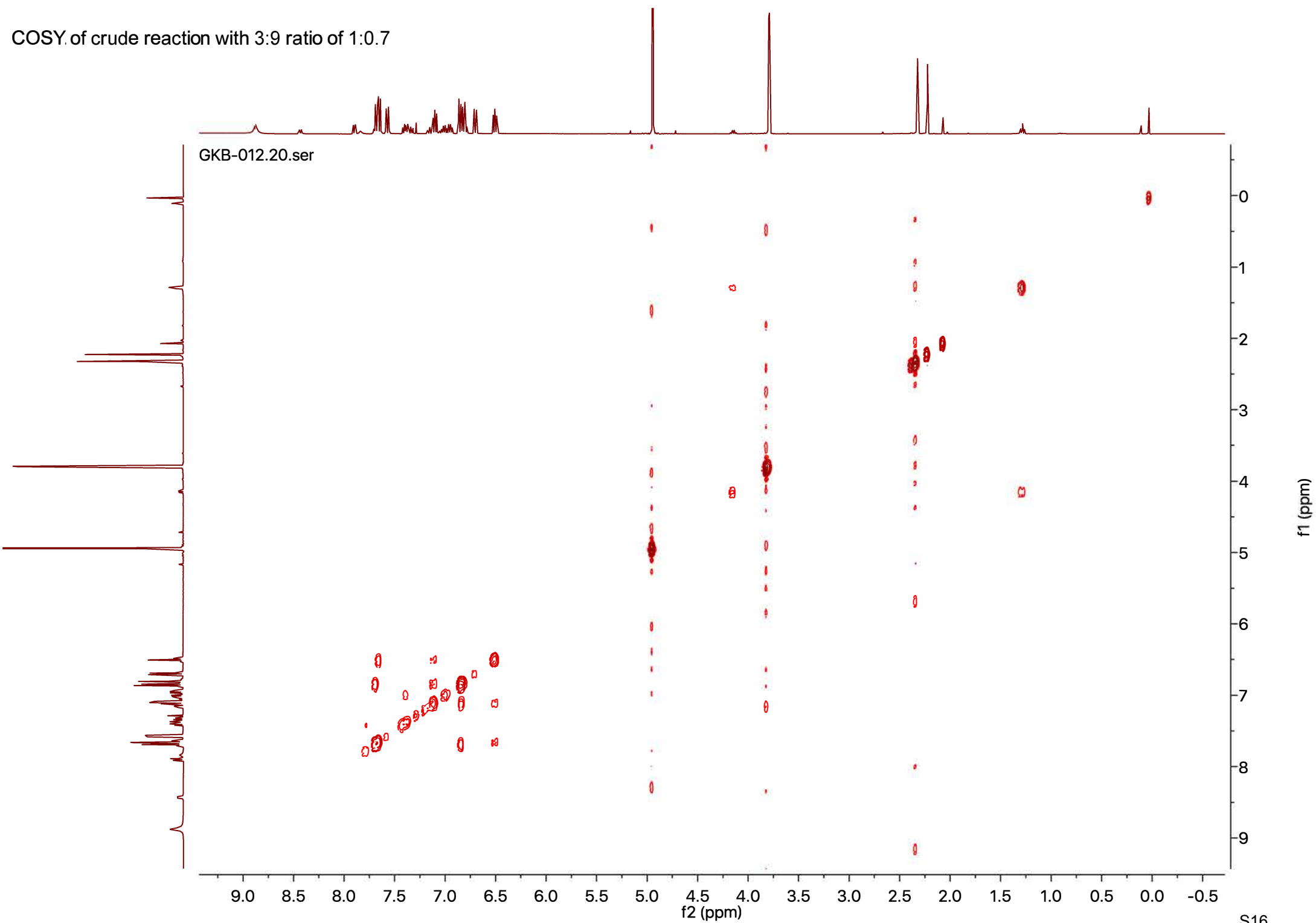


**8**

$^{13}\text{C}$  NMR,  $\text{CDCl}_3$ , 101 MHz

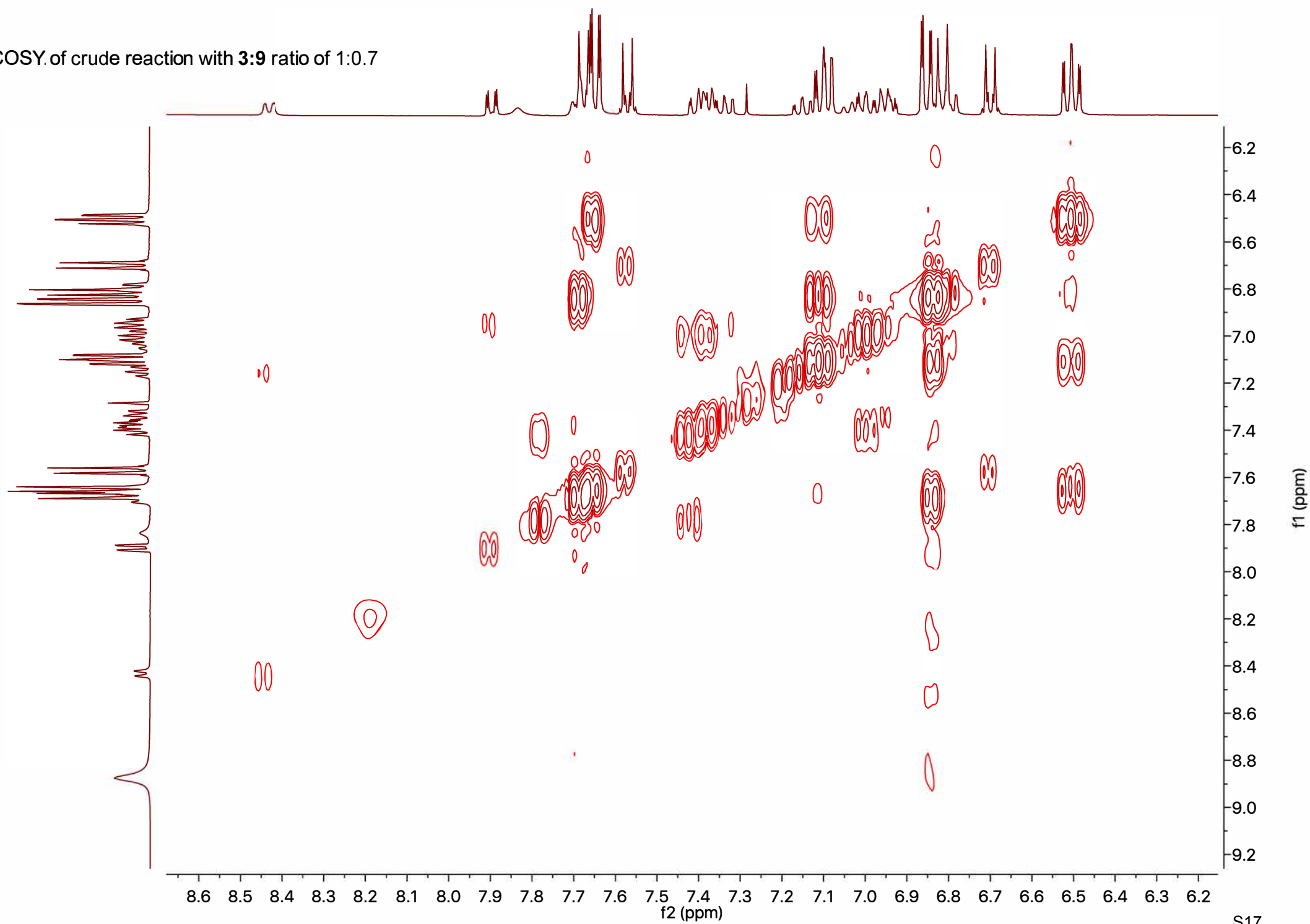


COSY of crude reaction with 3:9 ratio of 1:0.7

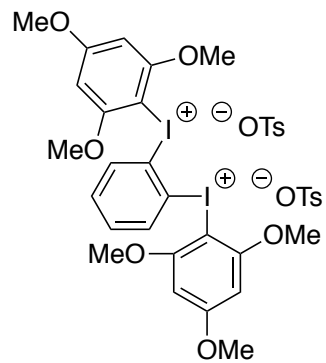




COSY of crude reaction with **3:9** ratio of 1:0.7







**11**

$^{13}\text{C}$  NMR, DMSO- $d_6$ , 101 MHz

