

## Supporting Information

### **Silver-catalyzed three-component reactions of alkynyl aryl ketones, element selenium, and boronic acids leading to 3- organoselenylchromones**

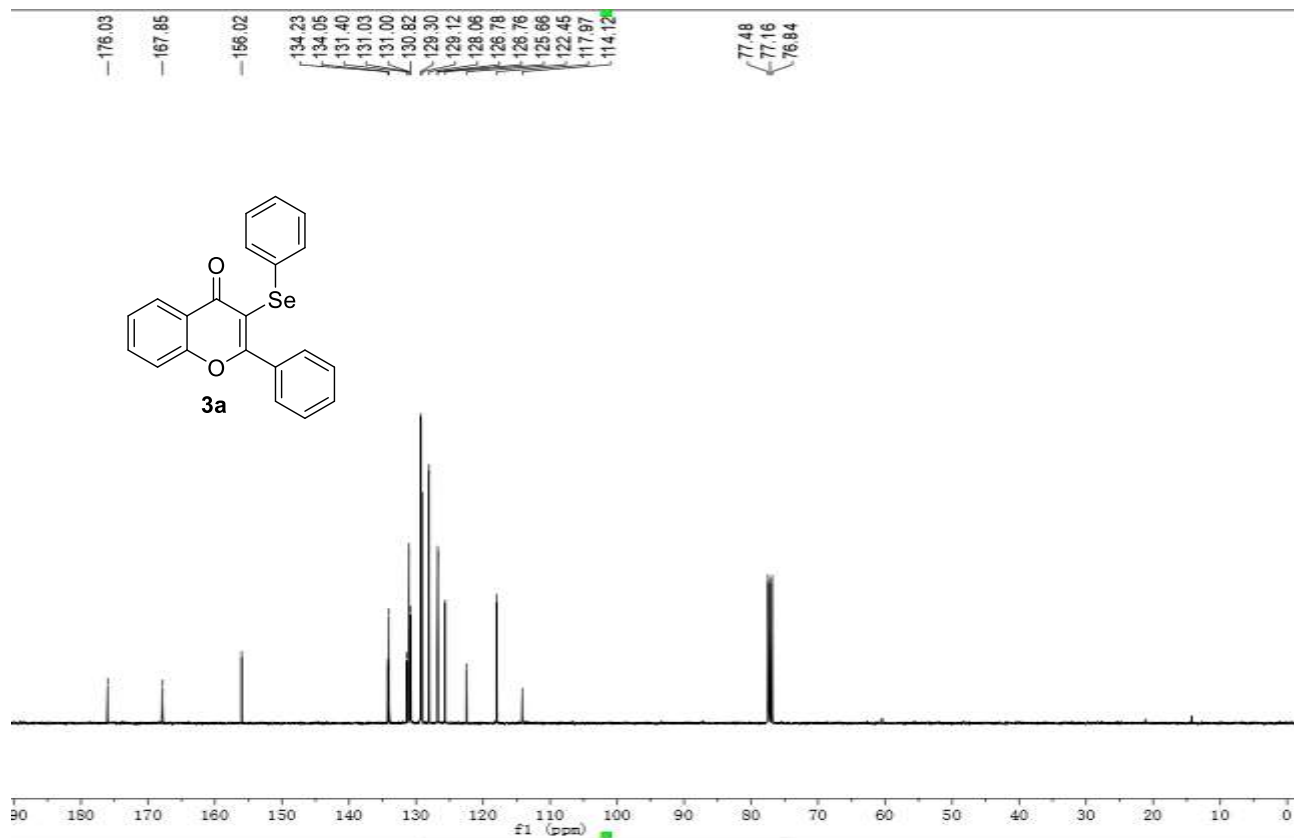
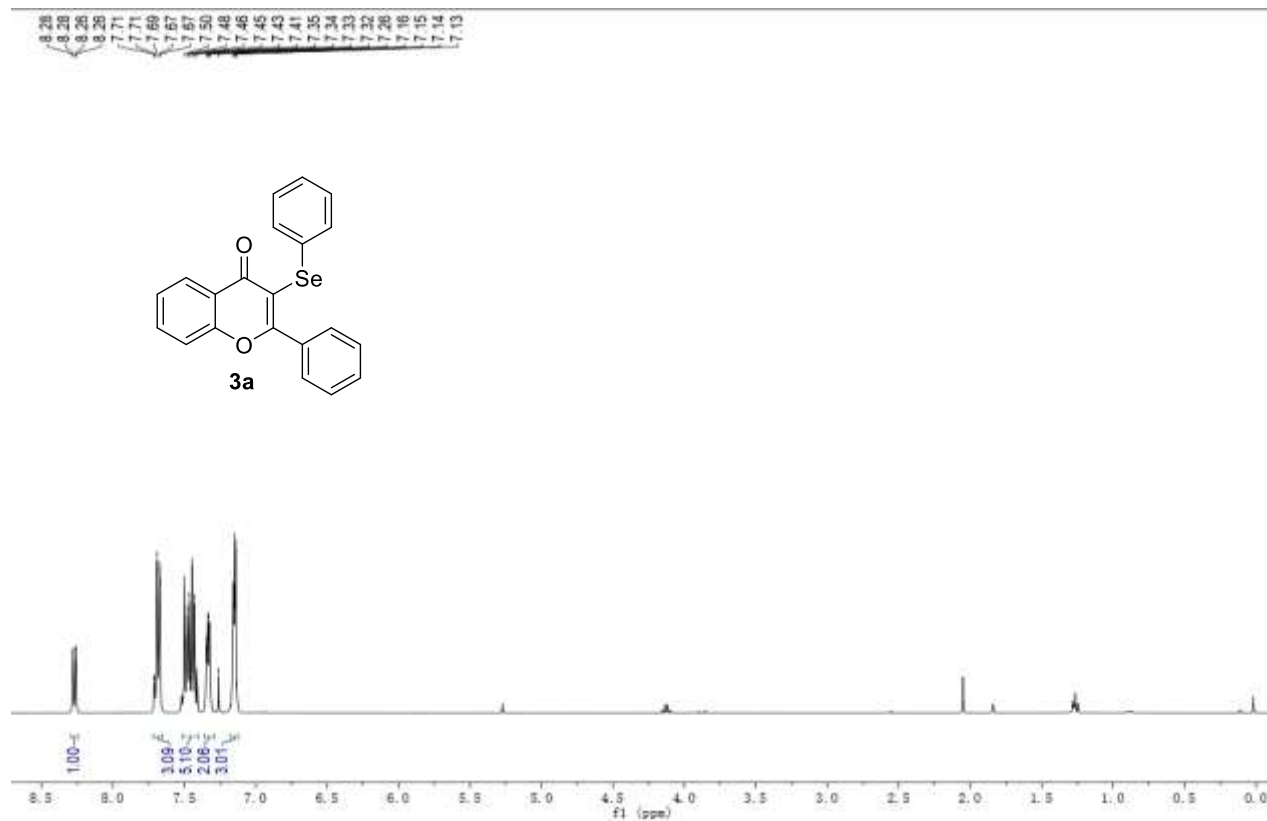
Jin-Rong Lai, Fu-Dang Ying, Qing-Song Guo, Fei Yuan, Bei-Fang Nian, Ming-Zhang,  
Zhi-Bang Wu, Hong-Bin Zhang\* and E Tang\*

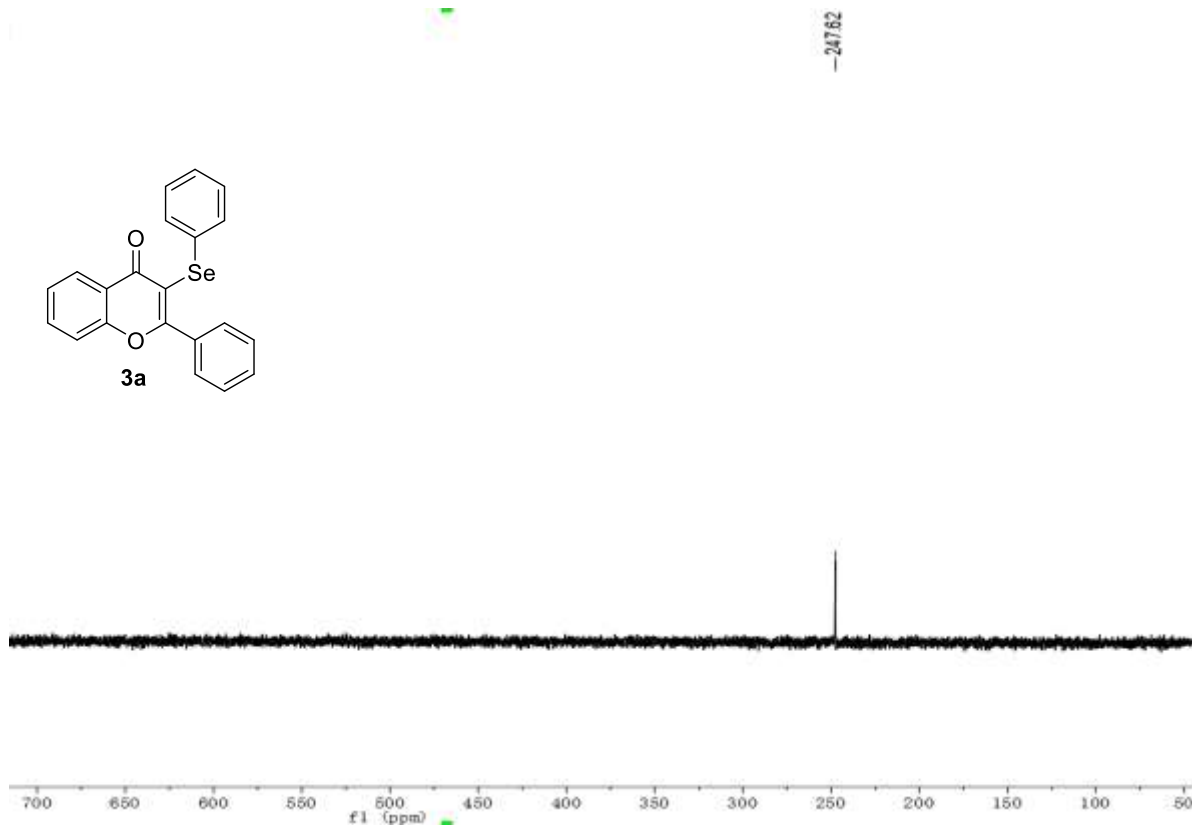
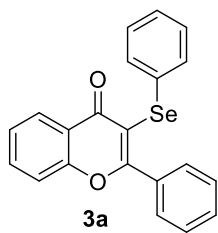
Corresponding authors:

tange@ynu.edu.cn

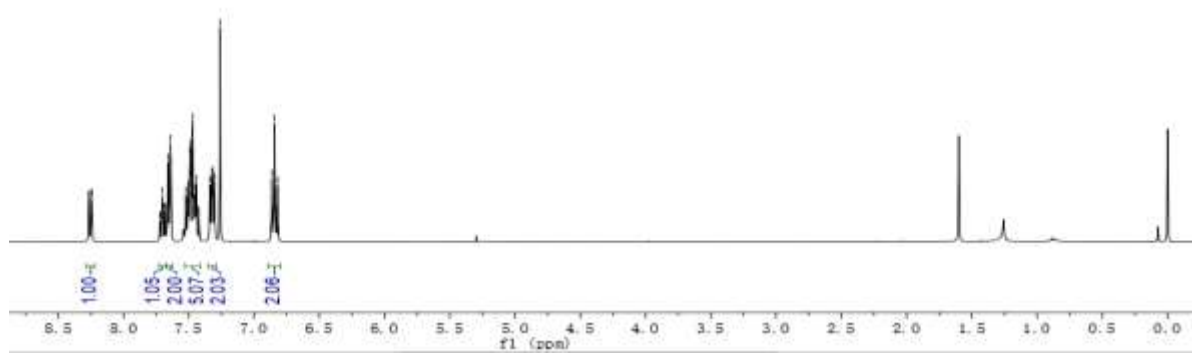
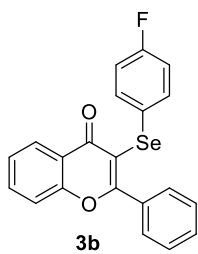
zhanghb@ynu.edu.cn

Copies of  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR spectra for the products 3 and 4, copy of  $^{77}\text{Se}$  NMR spectrum for the compound 3a, and copy of  $^{19}\text{F}$  NMR spectrum for the intermediate I-3

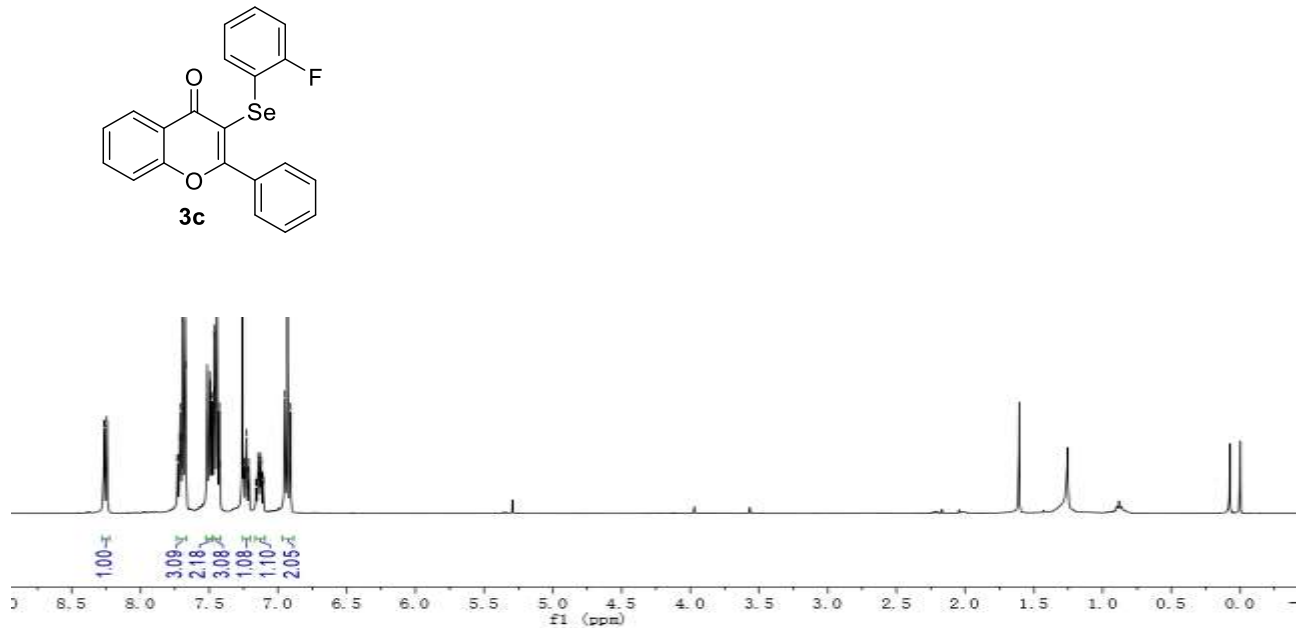
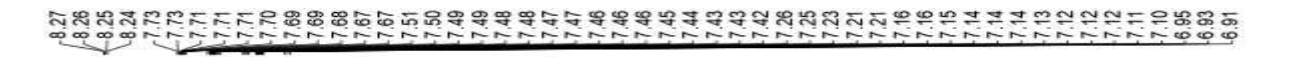
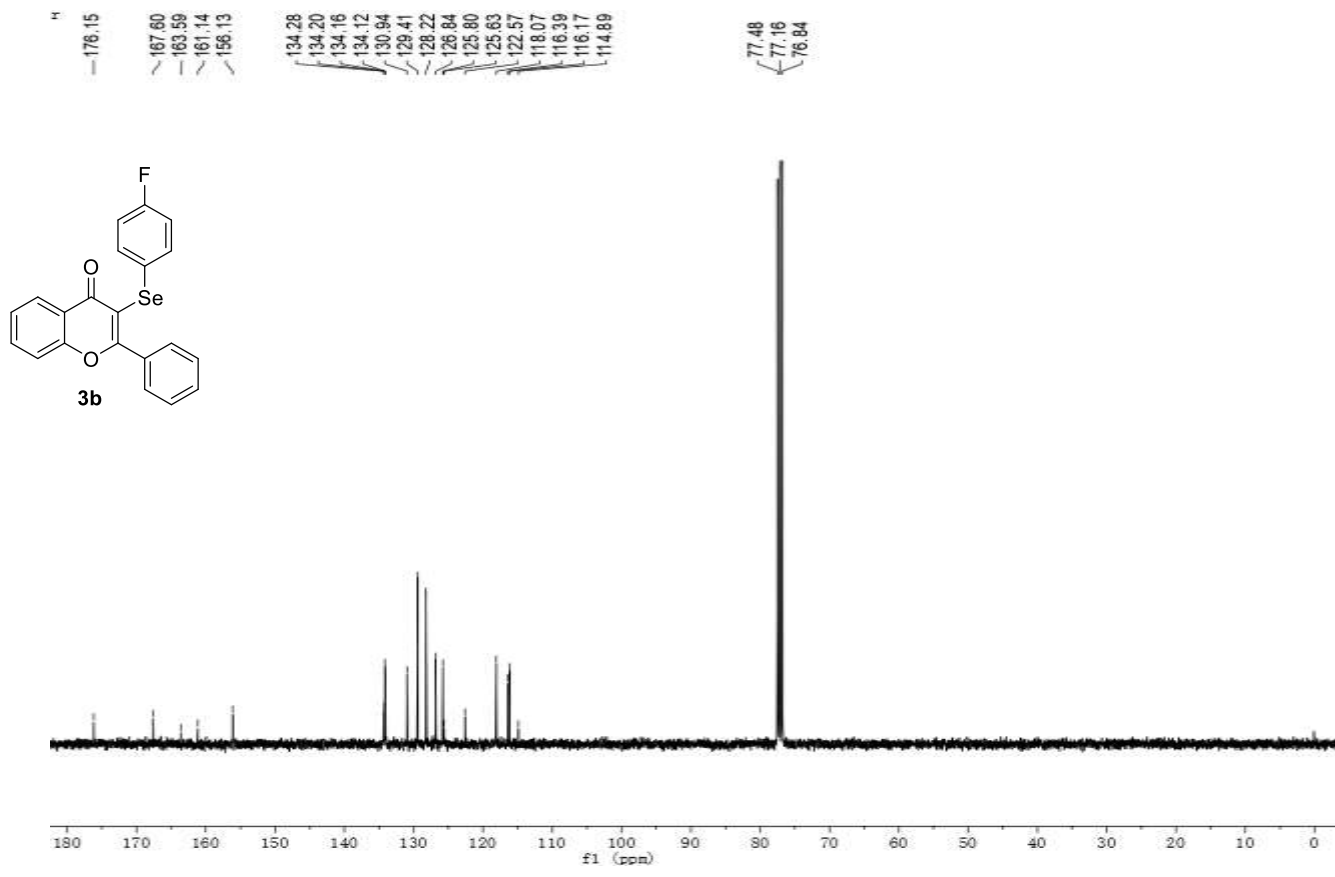




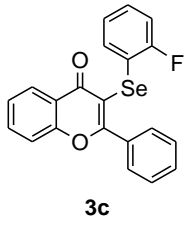
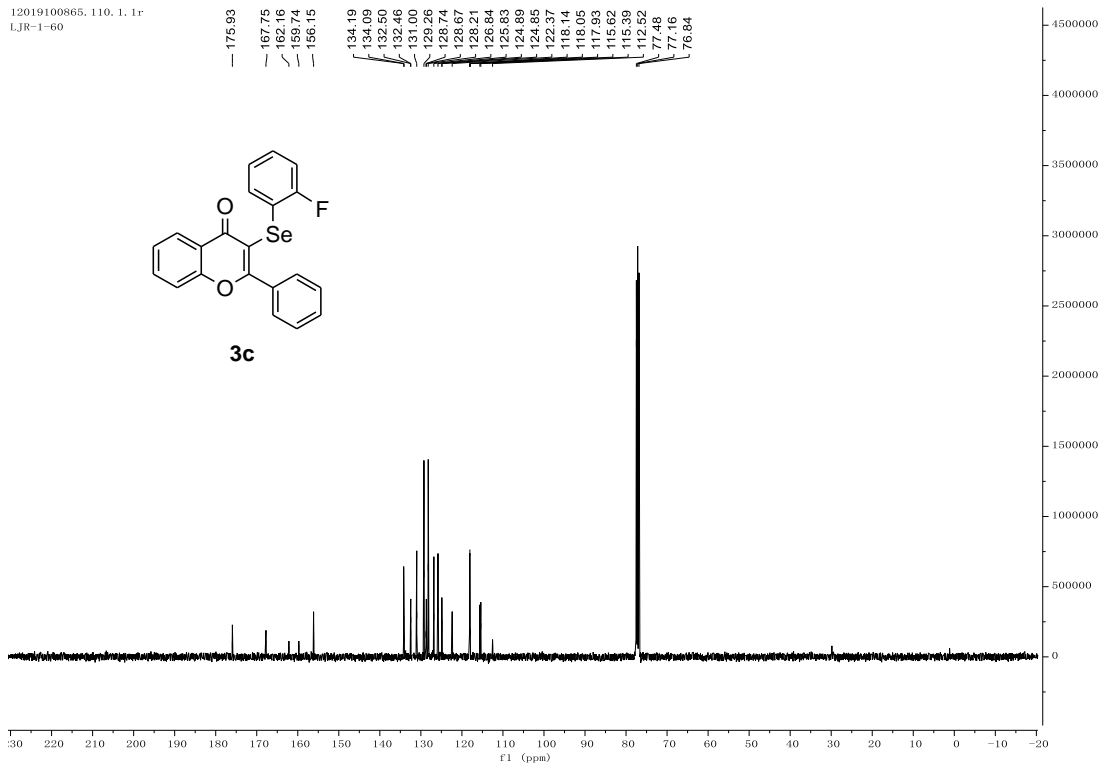
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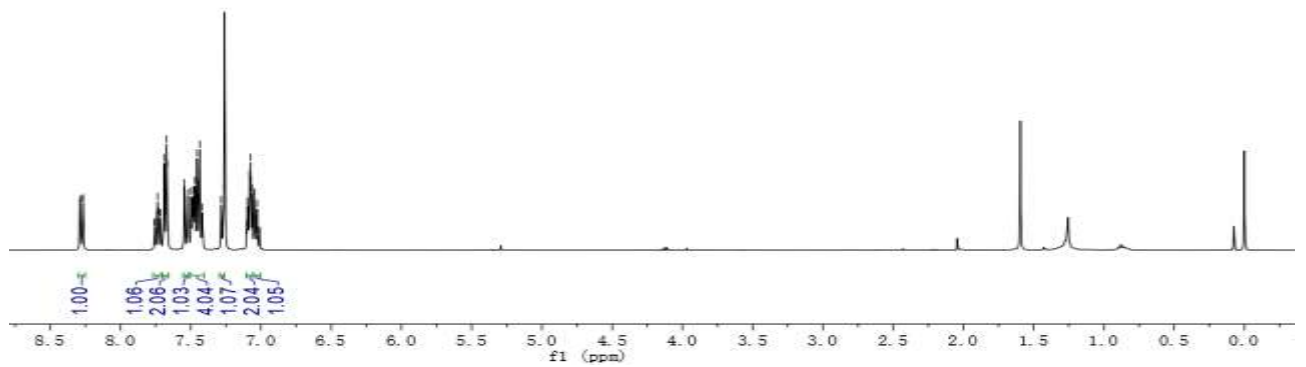
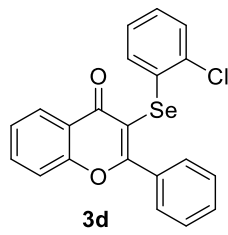
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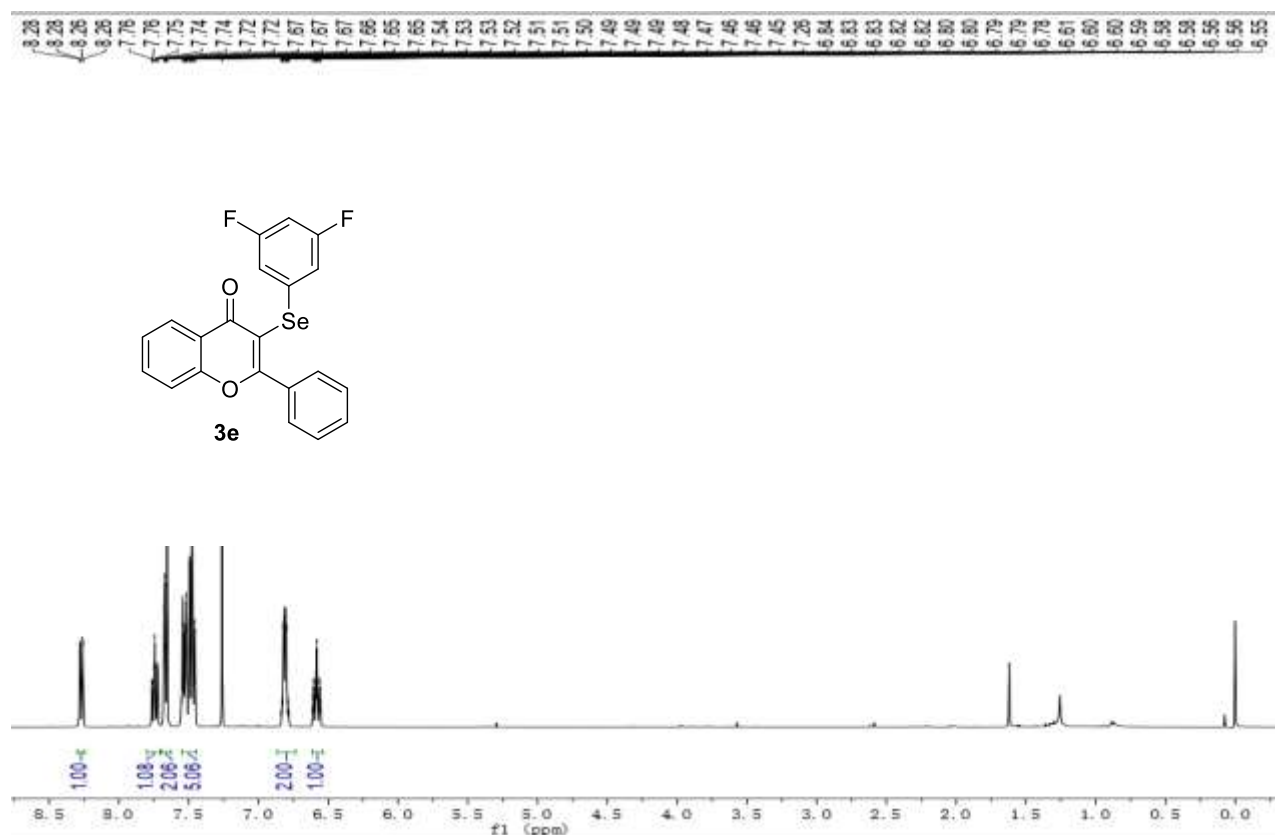
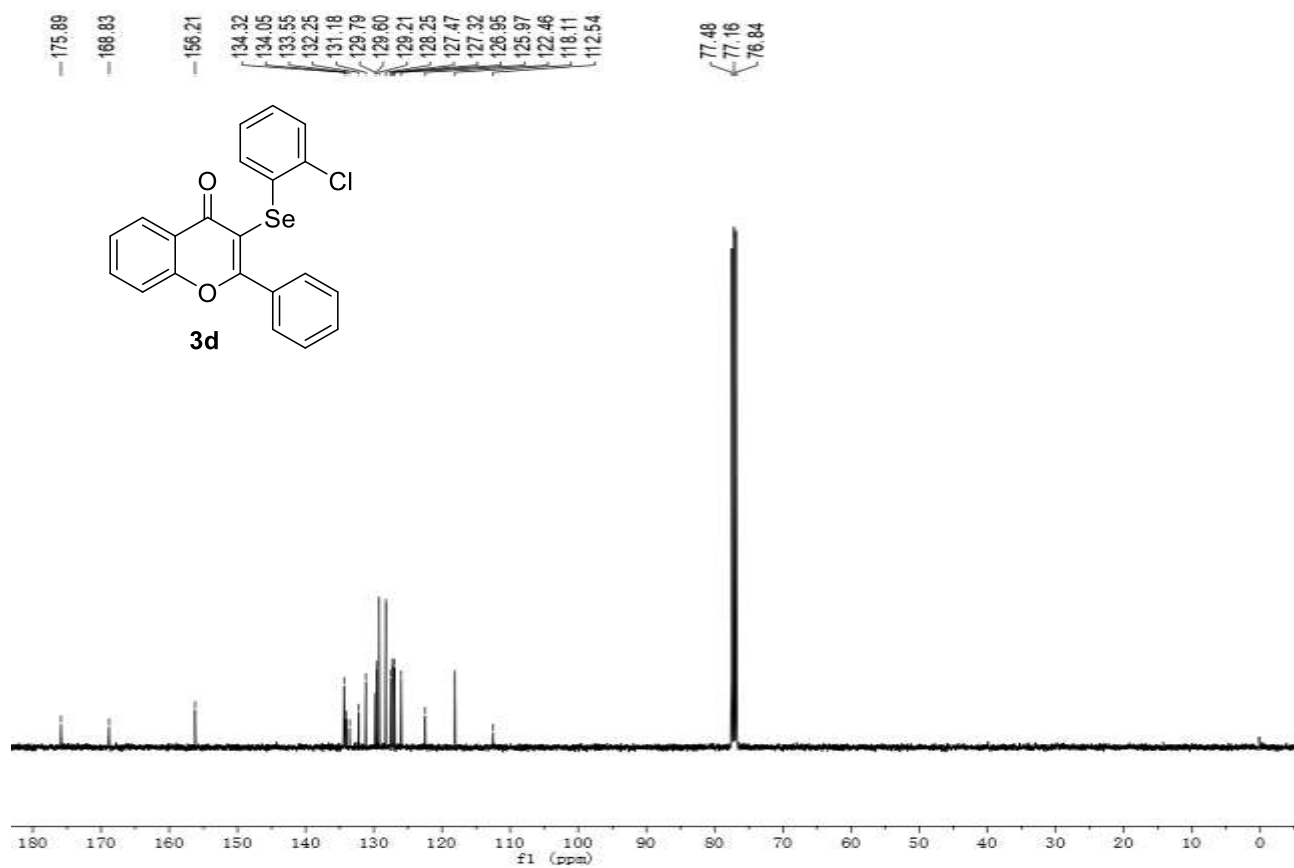


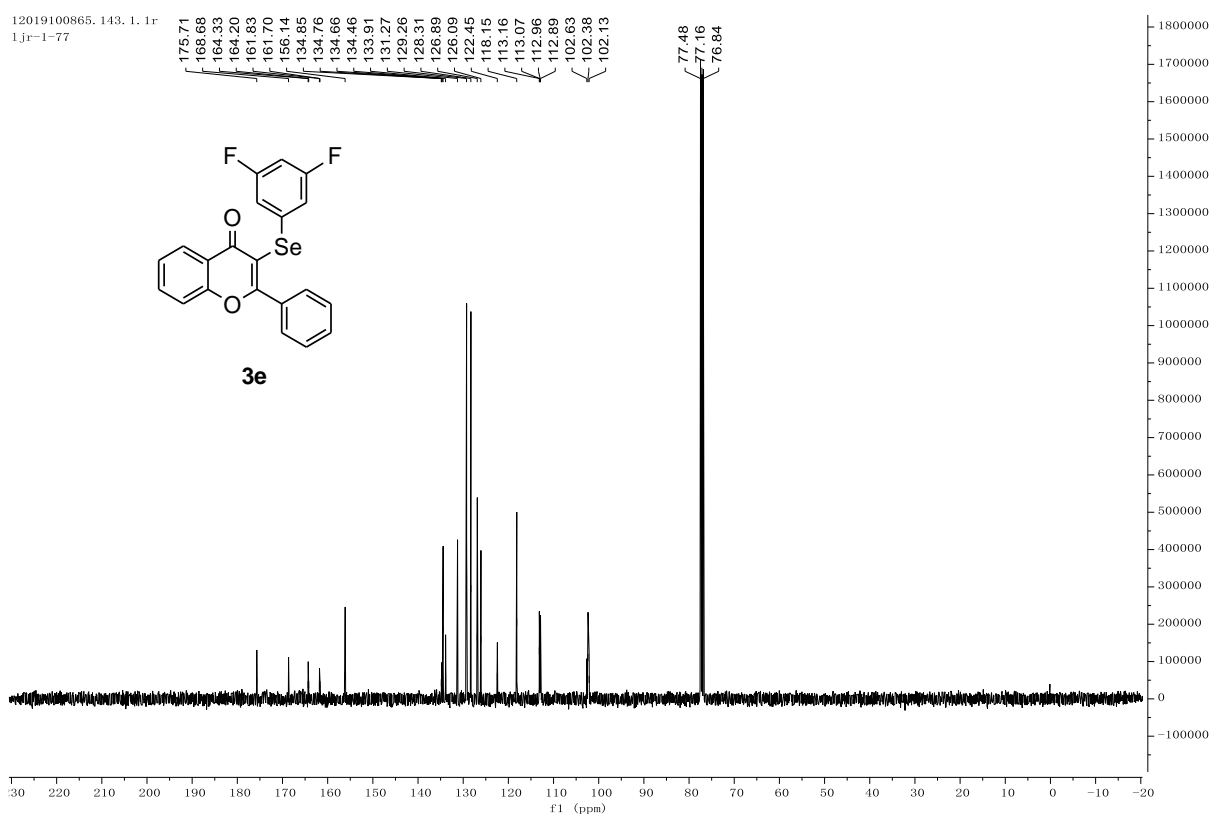
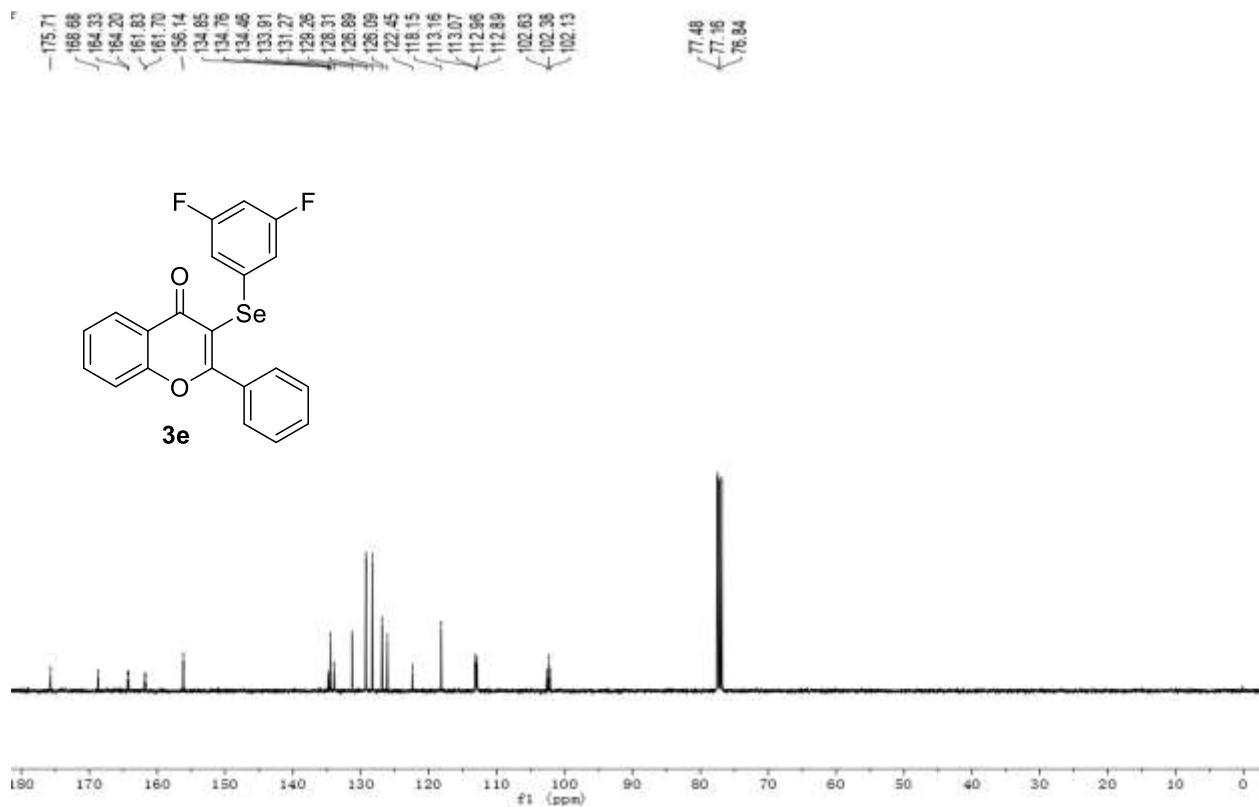
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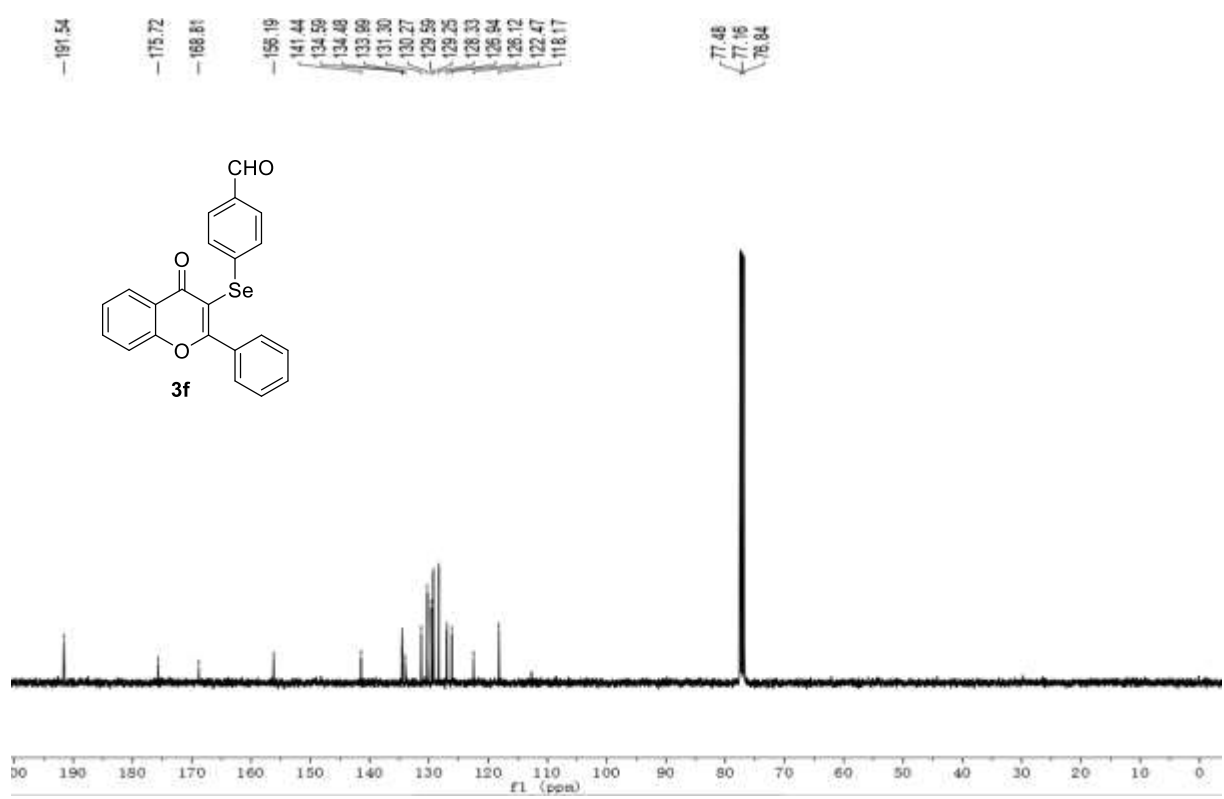
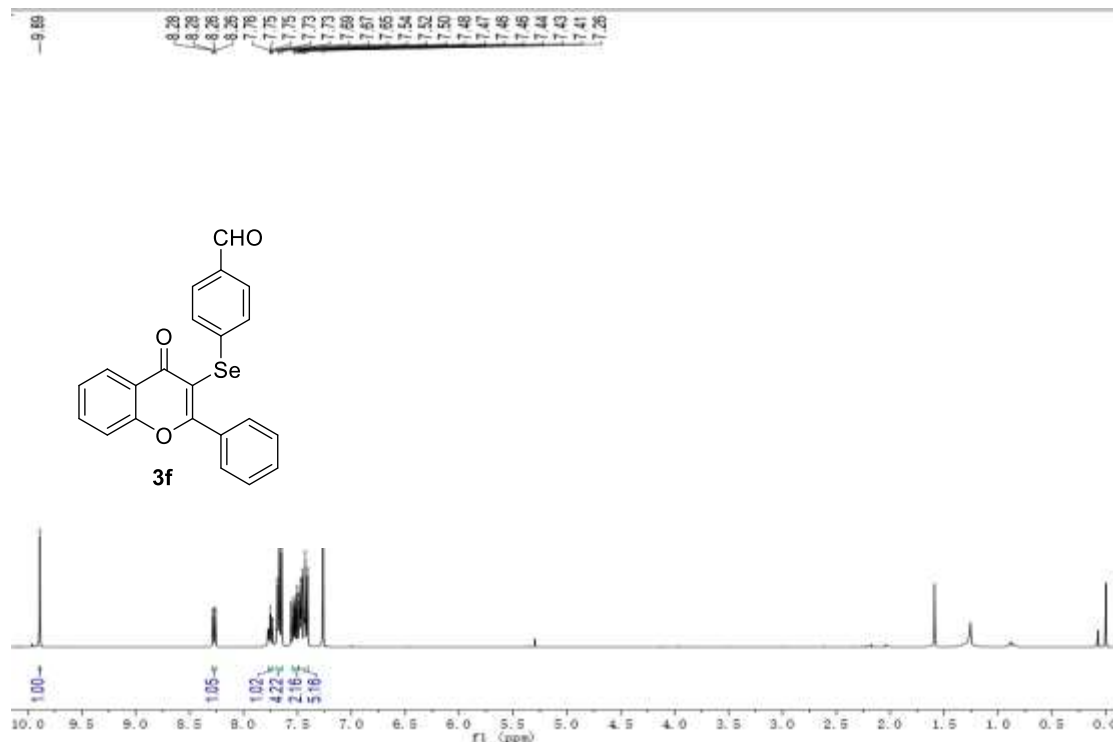


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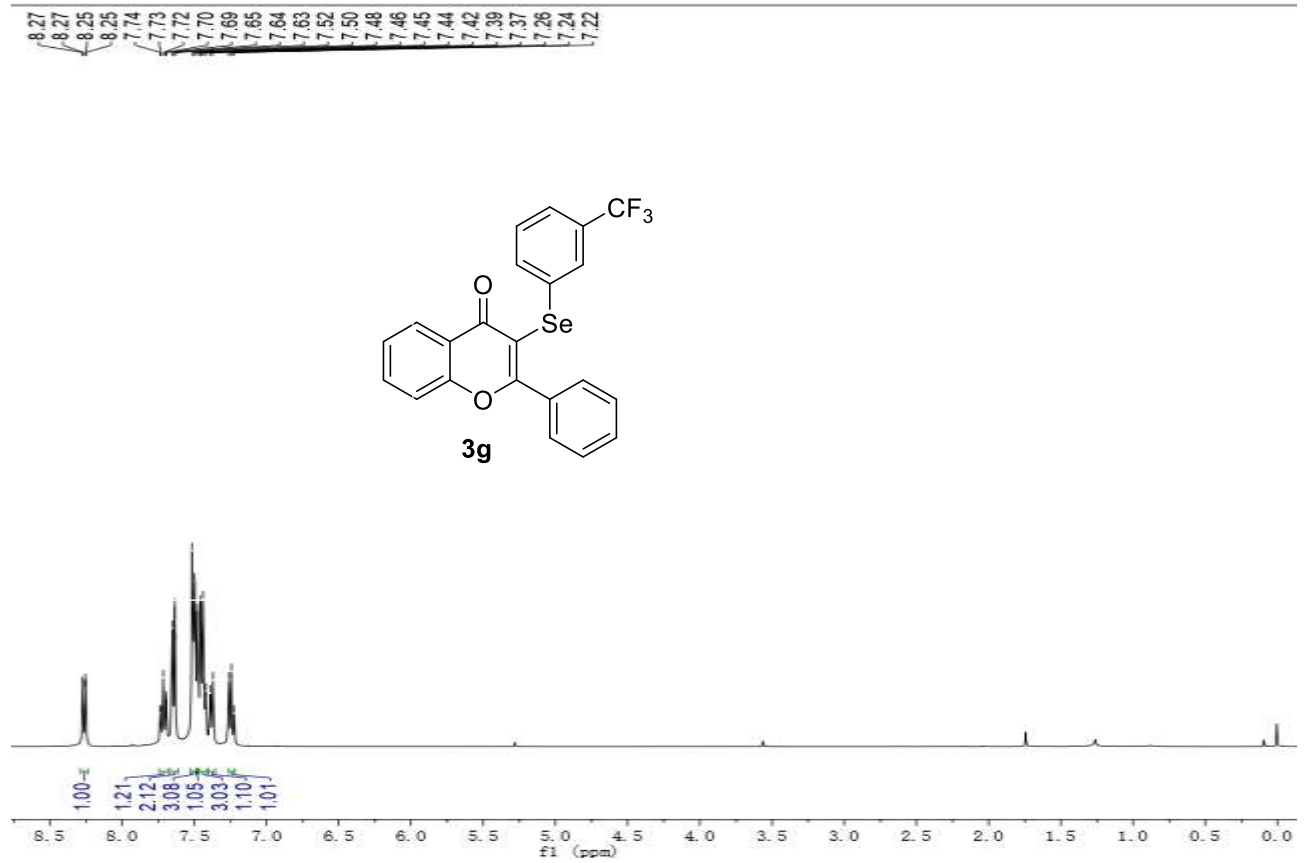




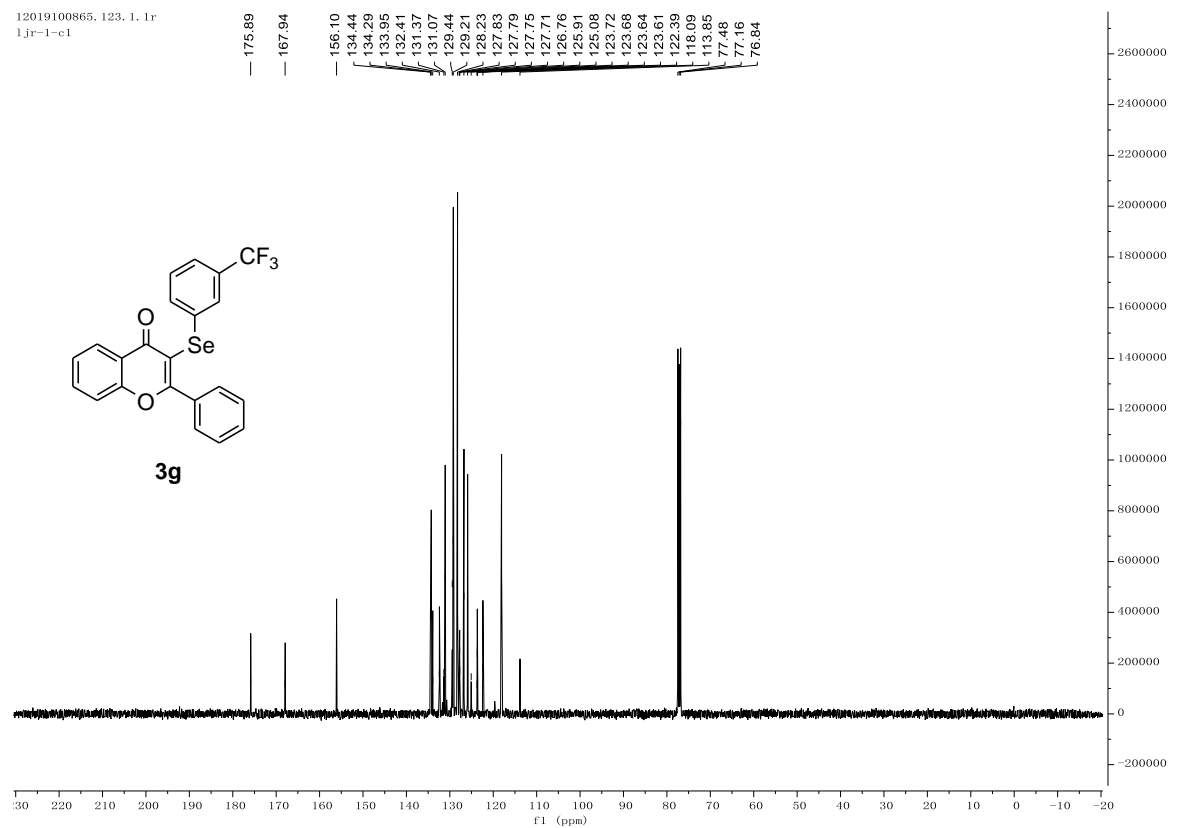




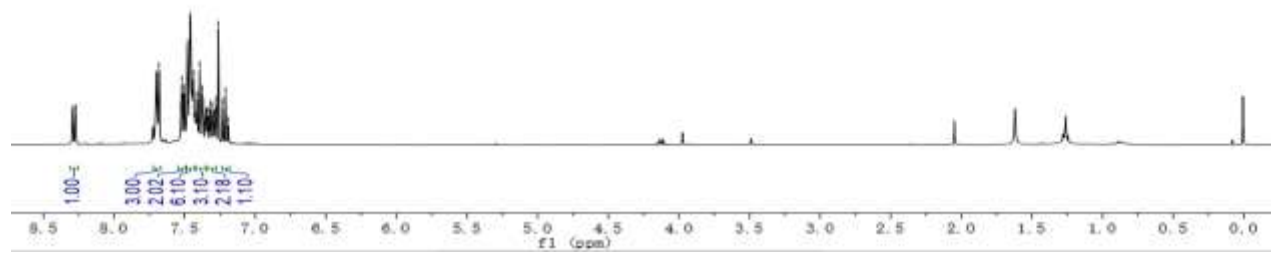
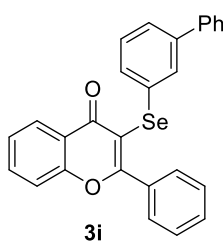




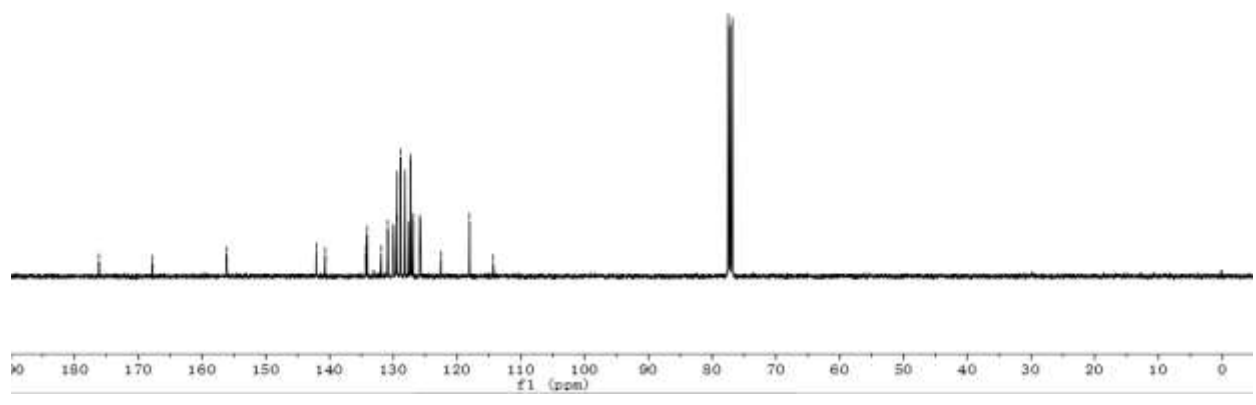
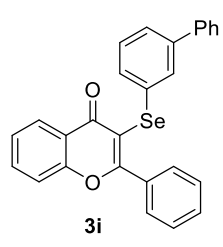
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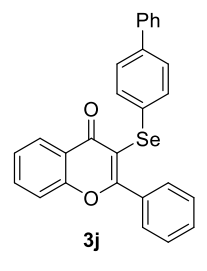
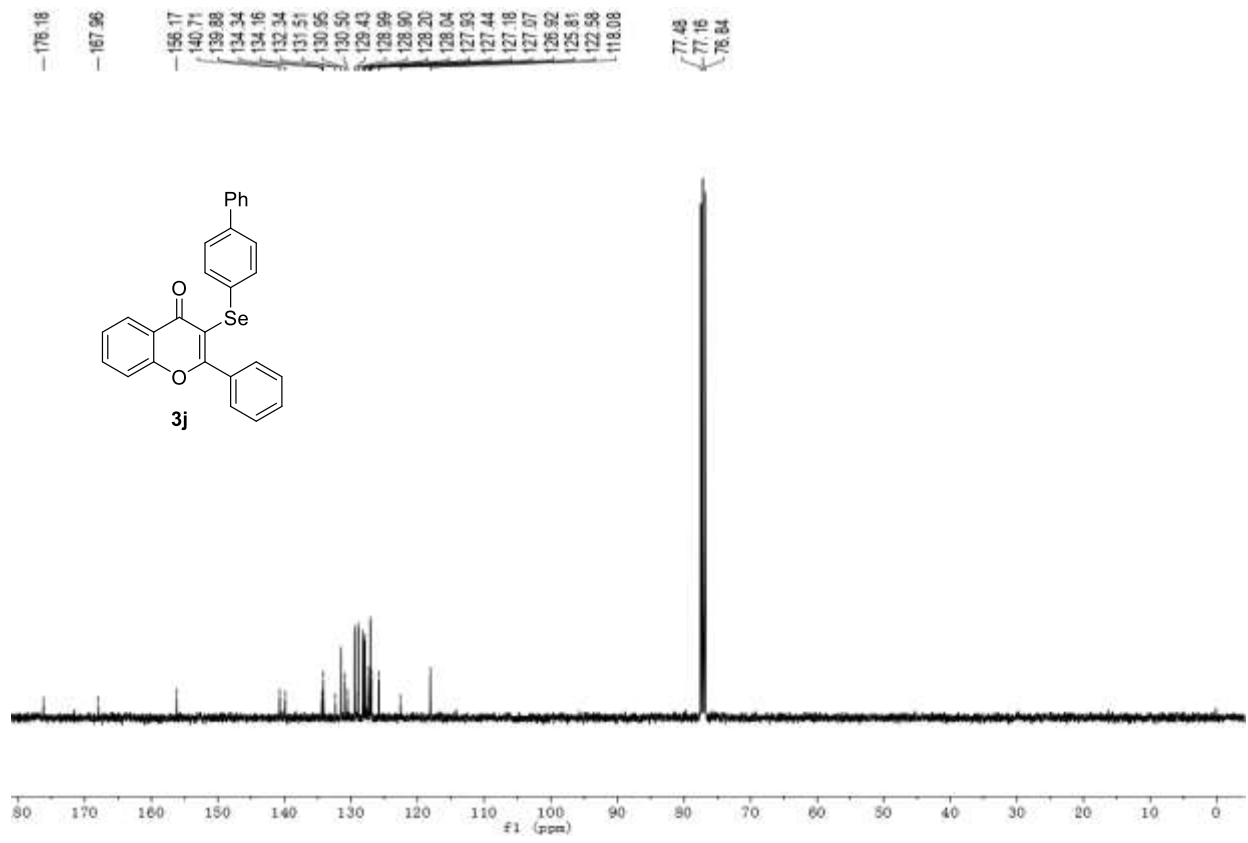
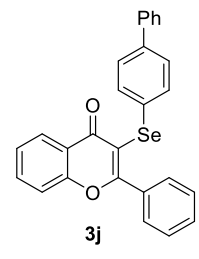
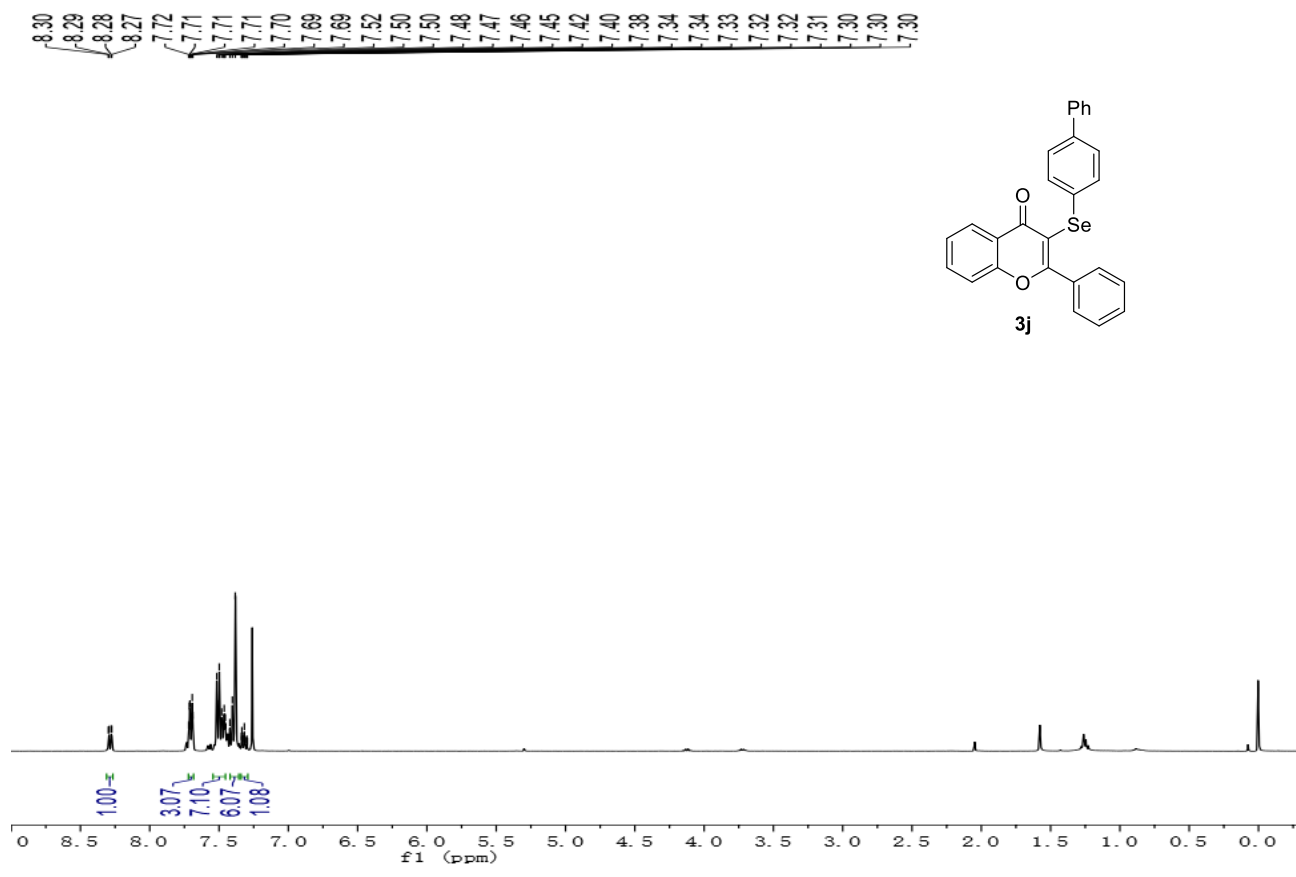


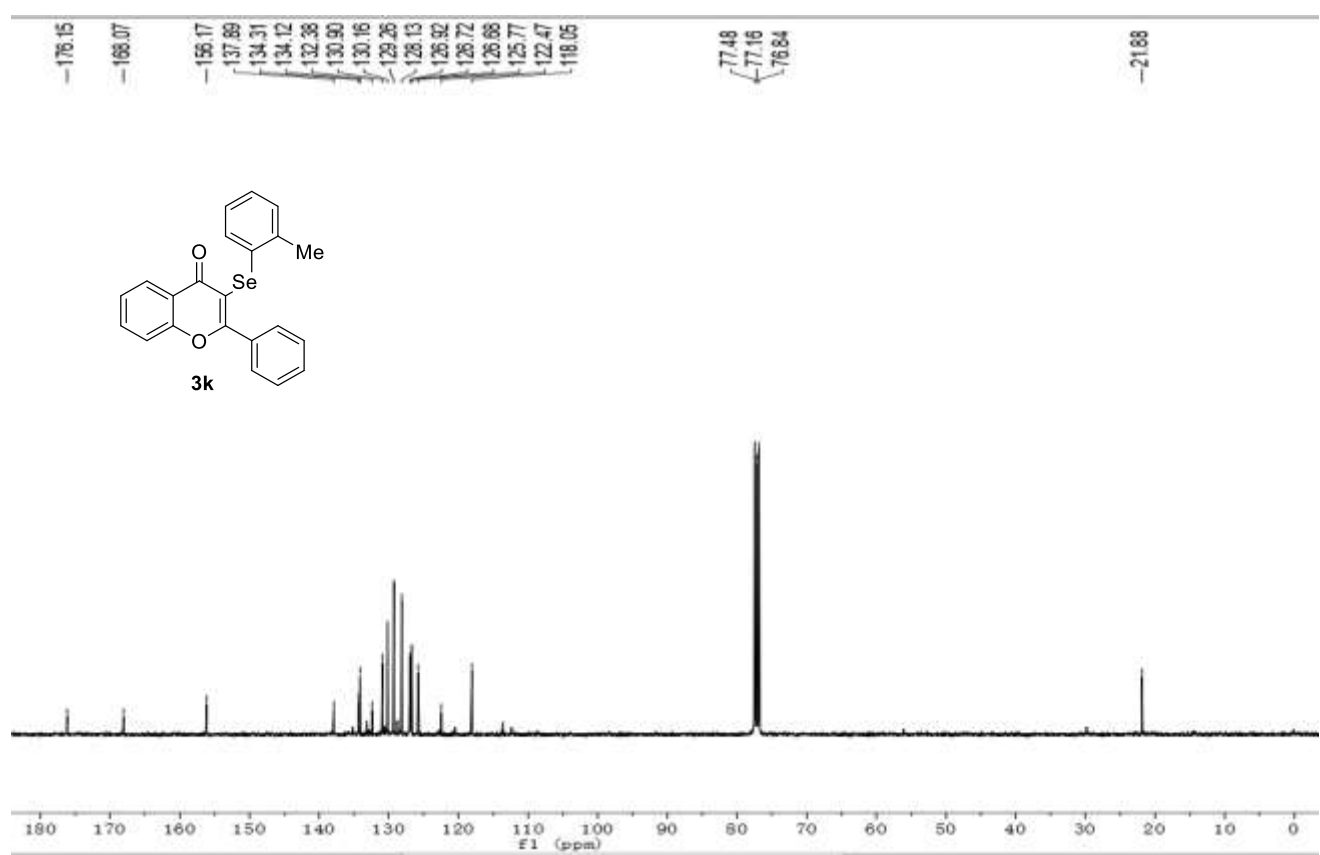
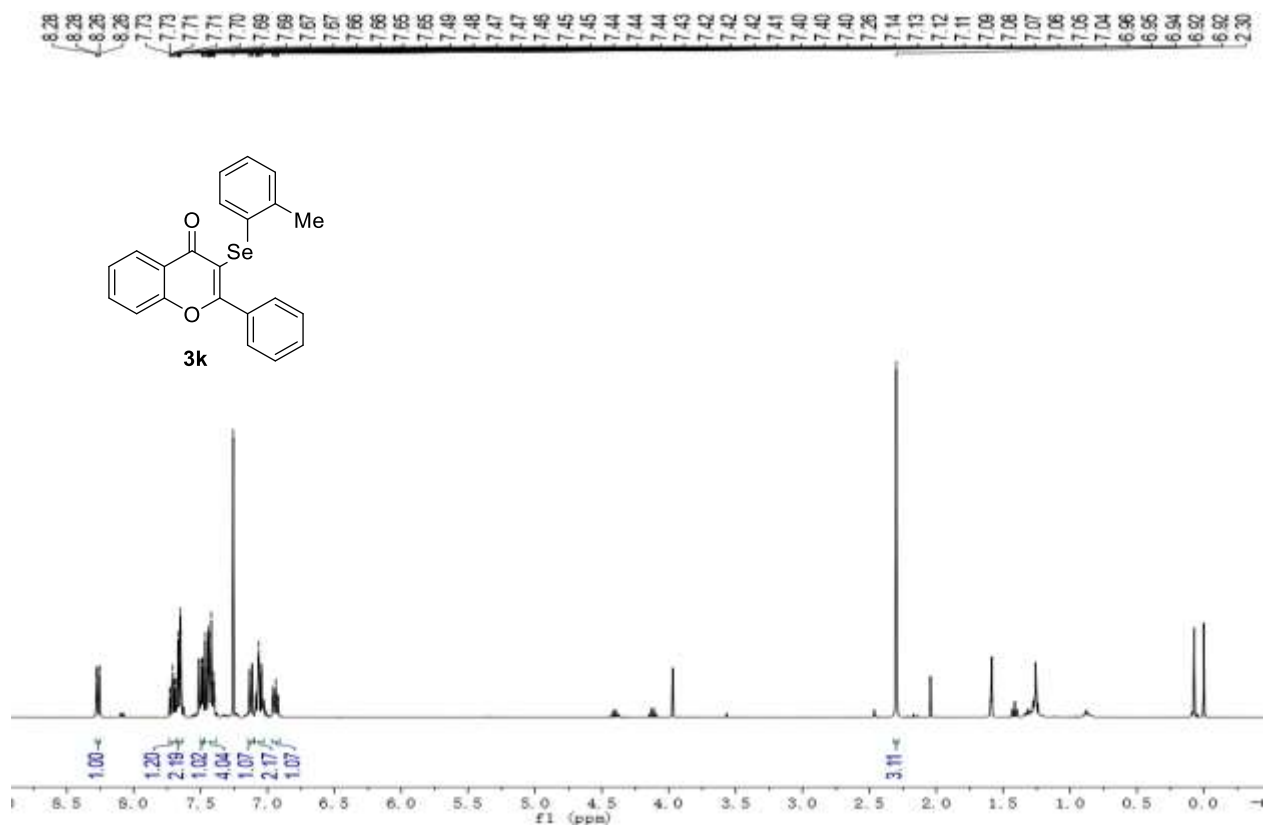
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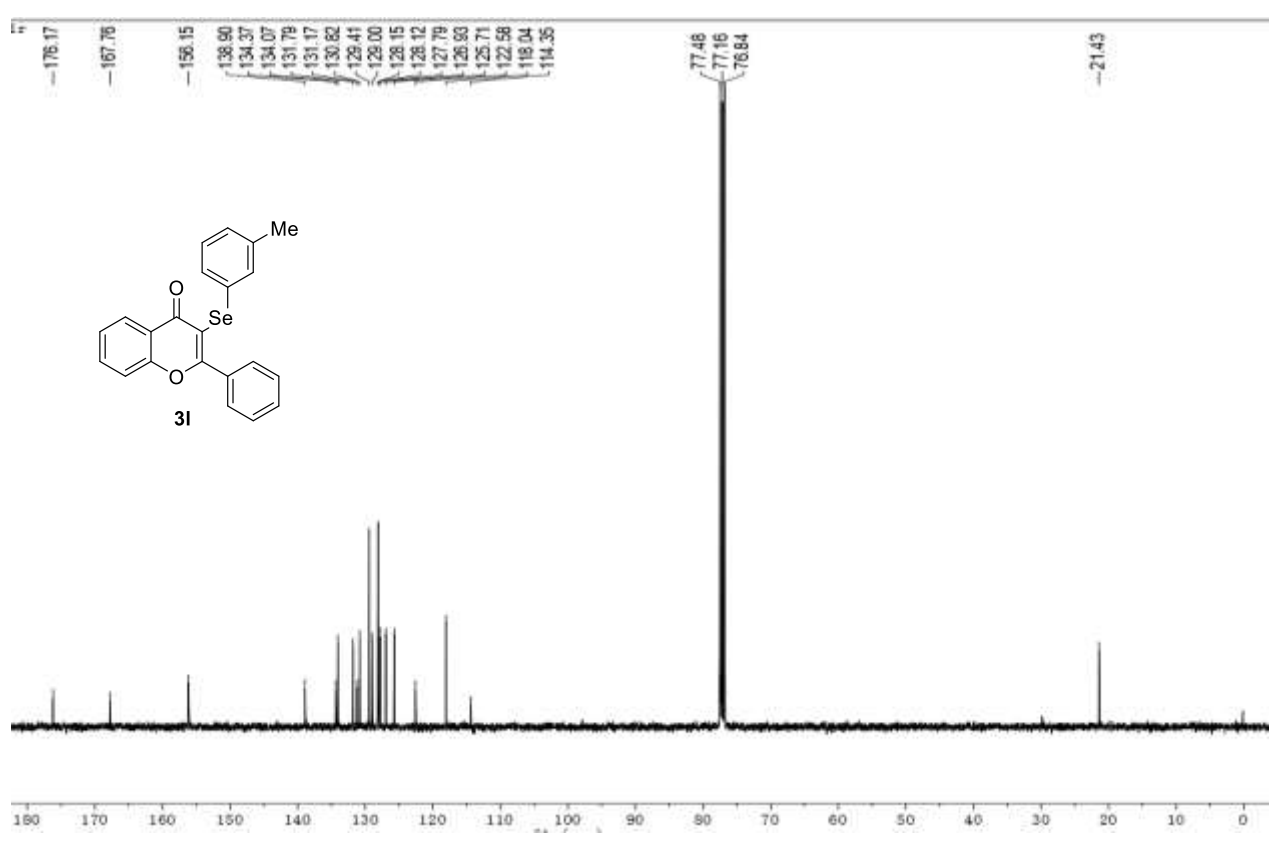
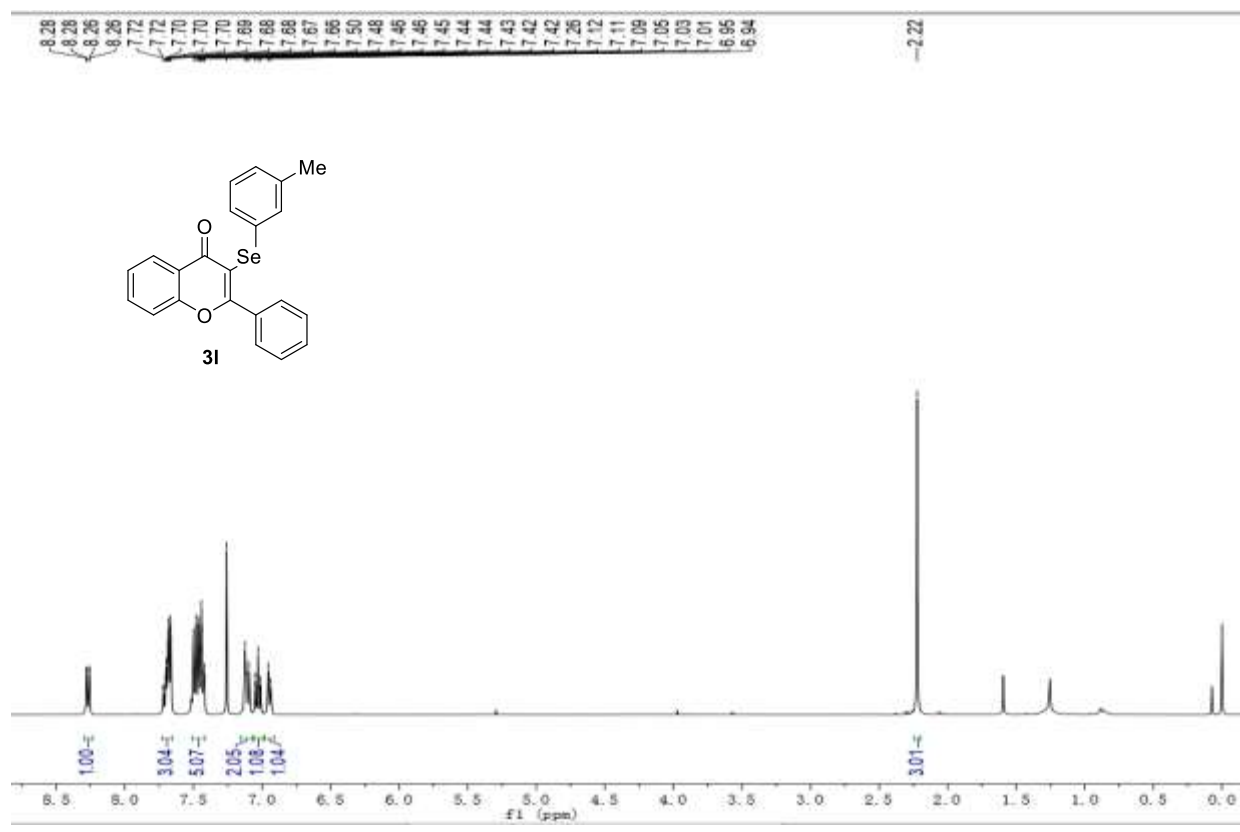


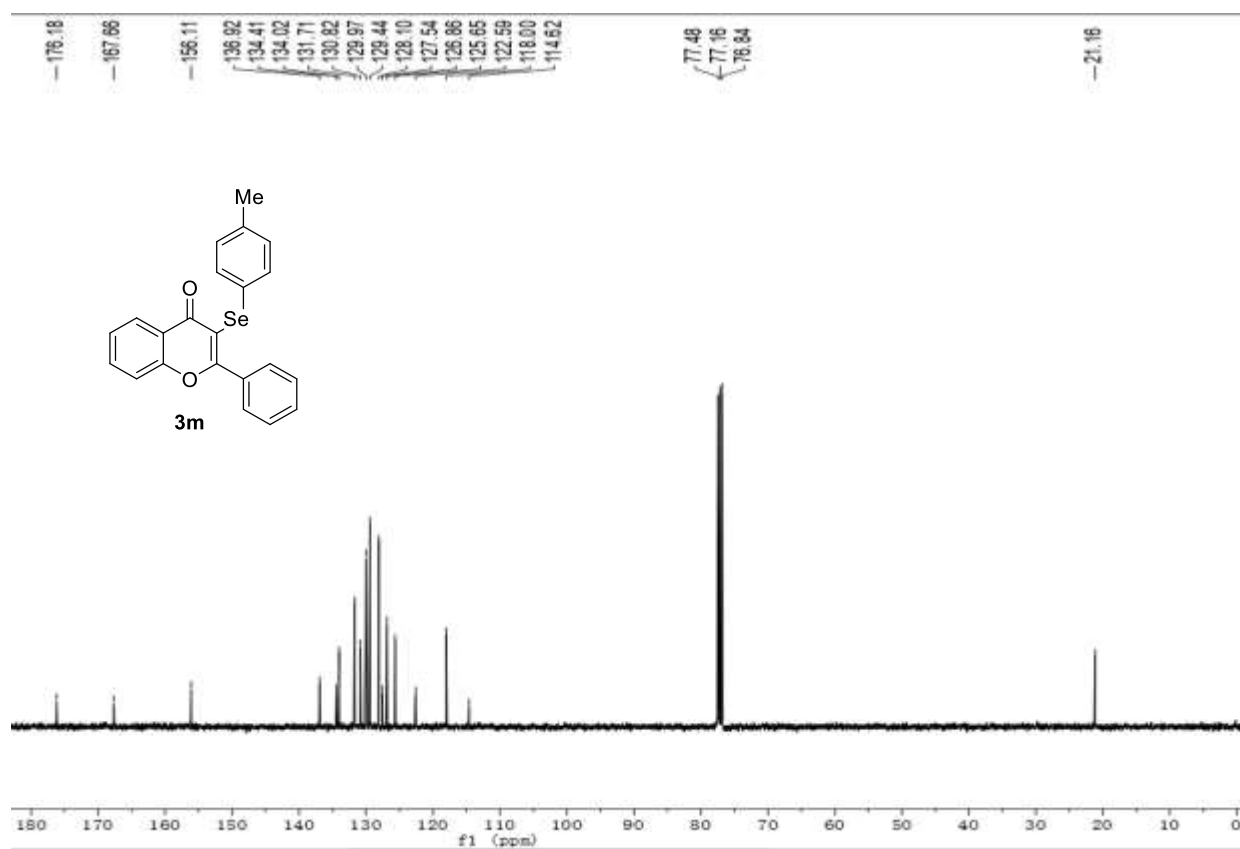
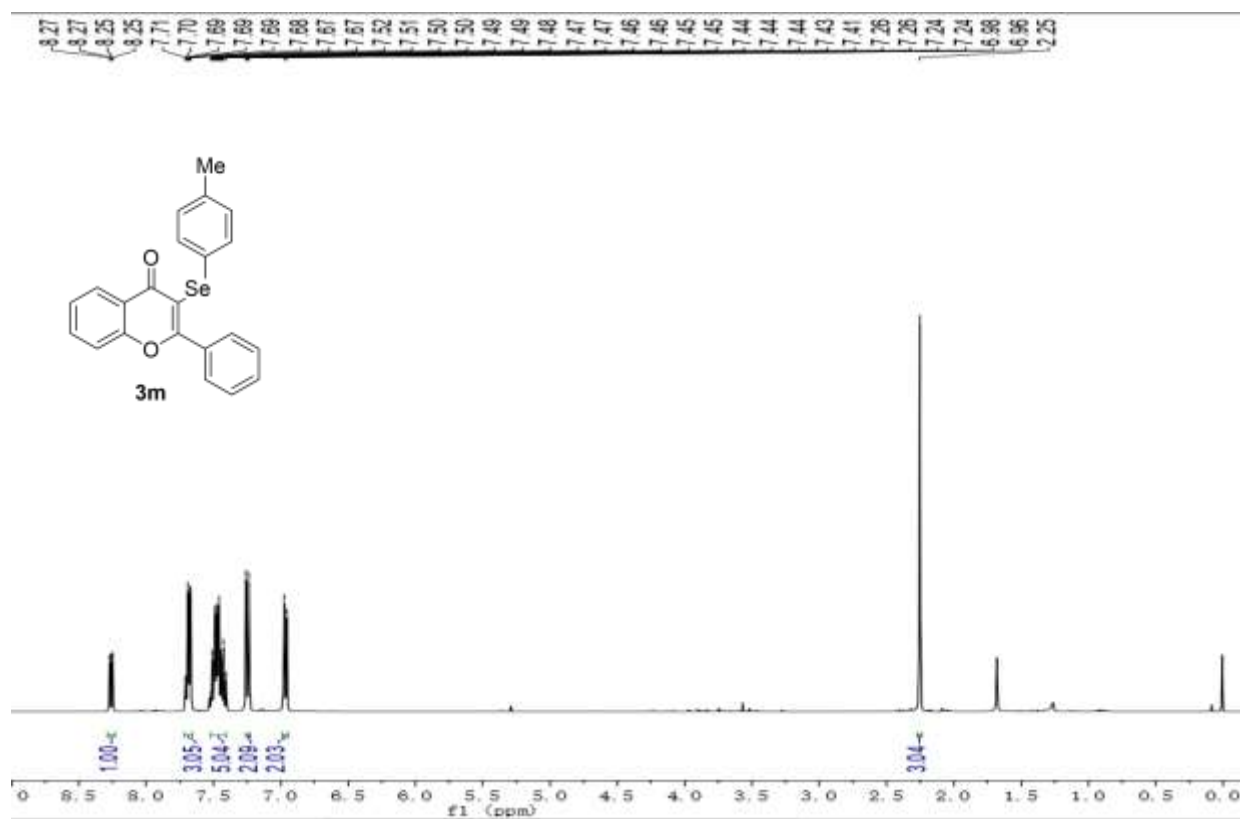
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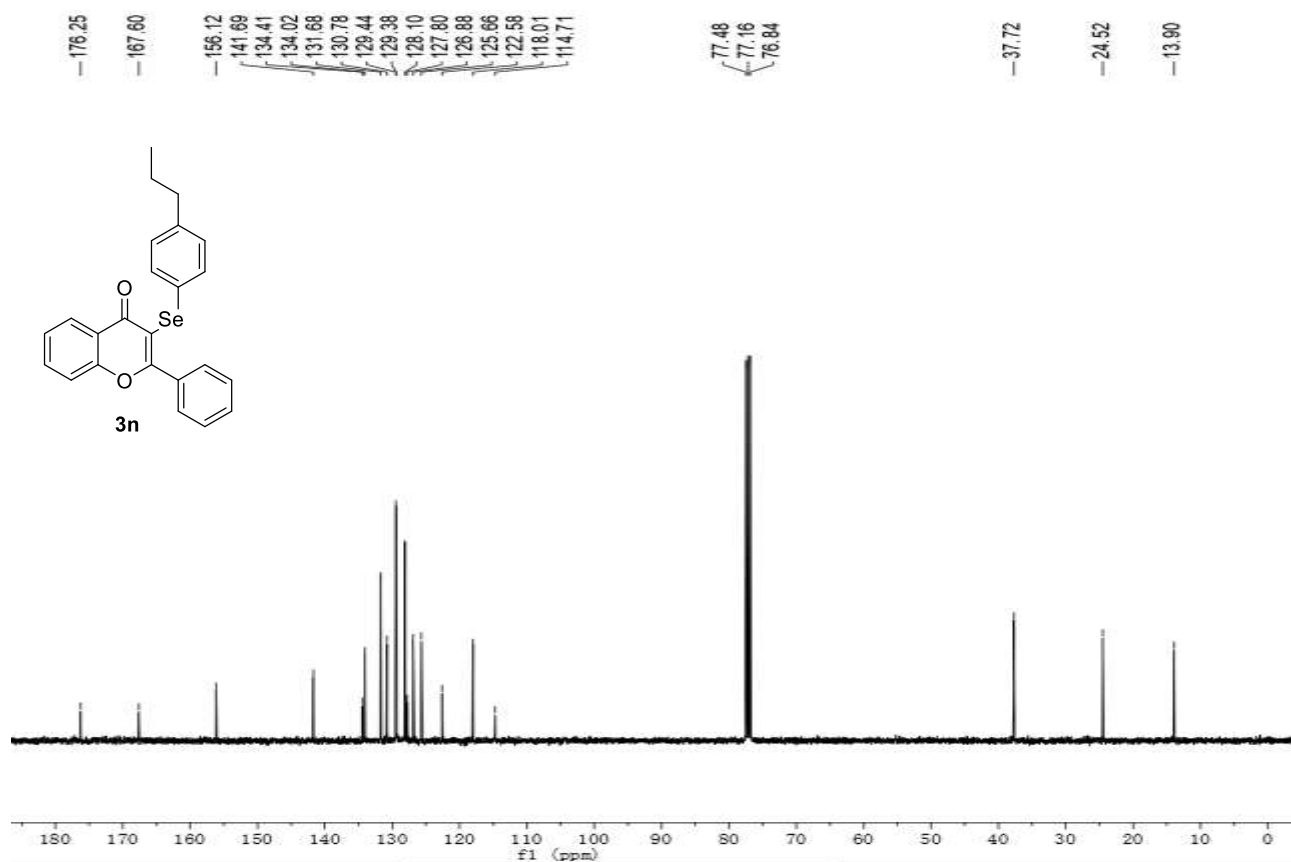
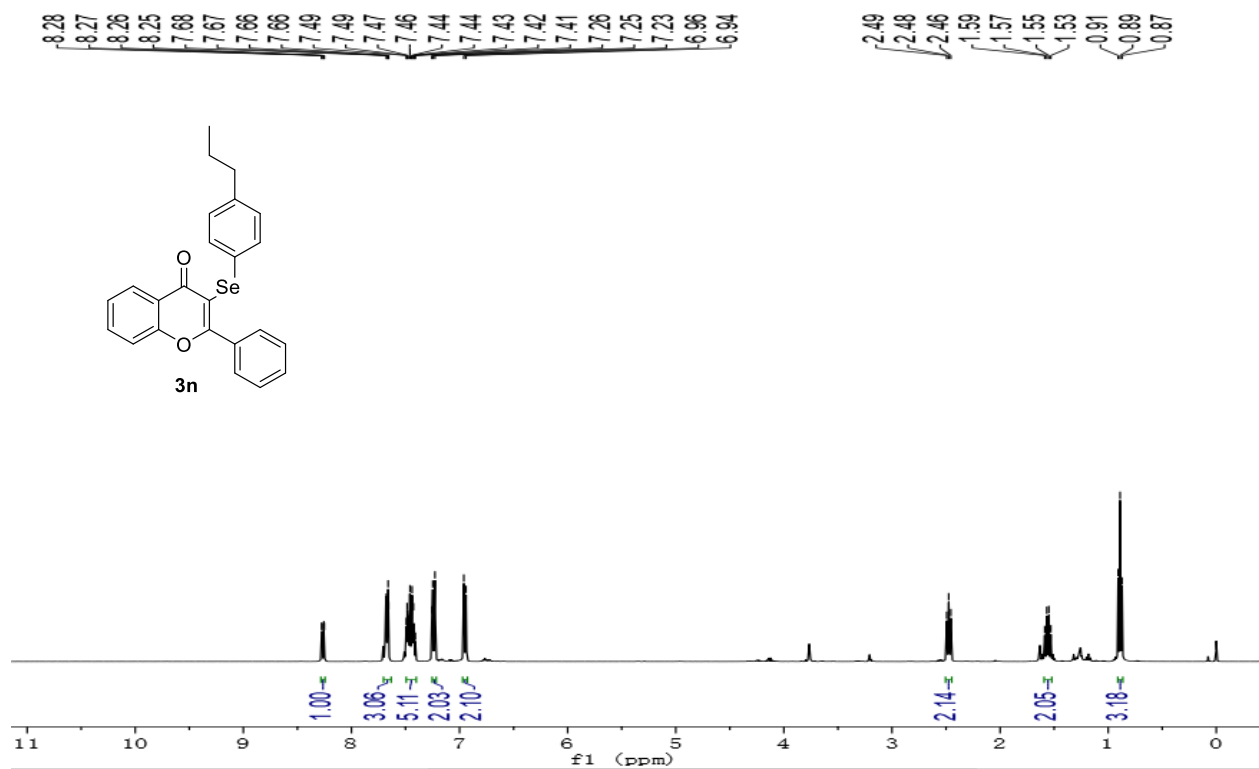


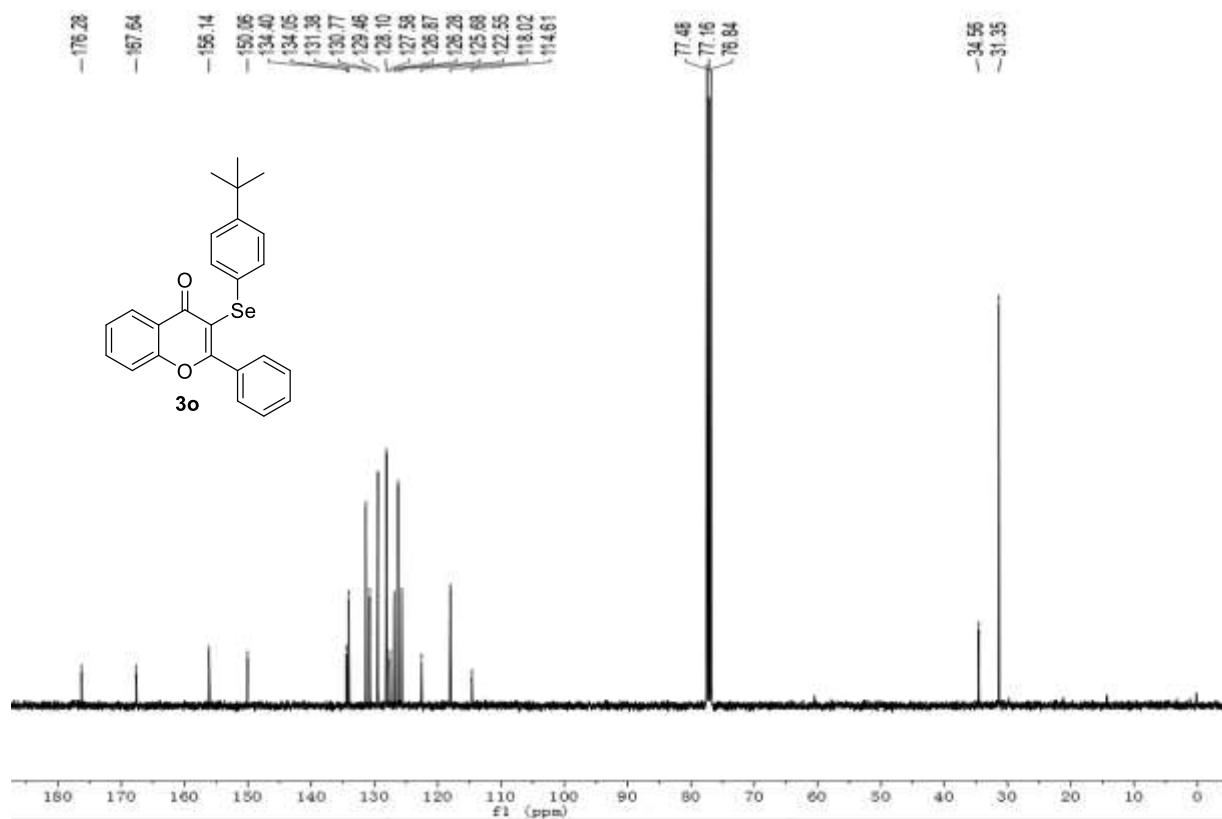
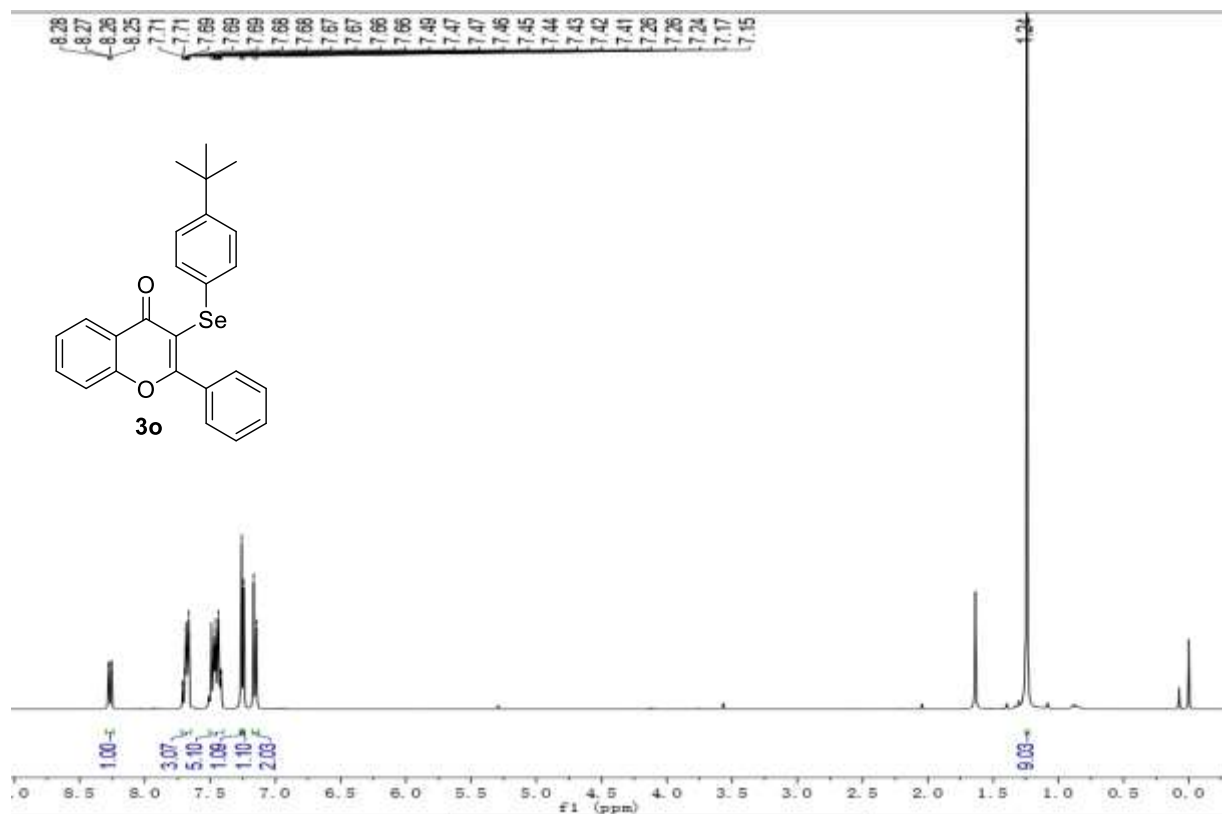




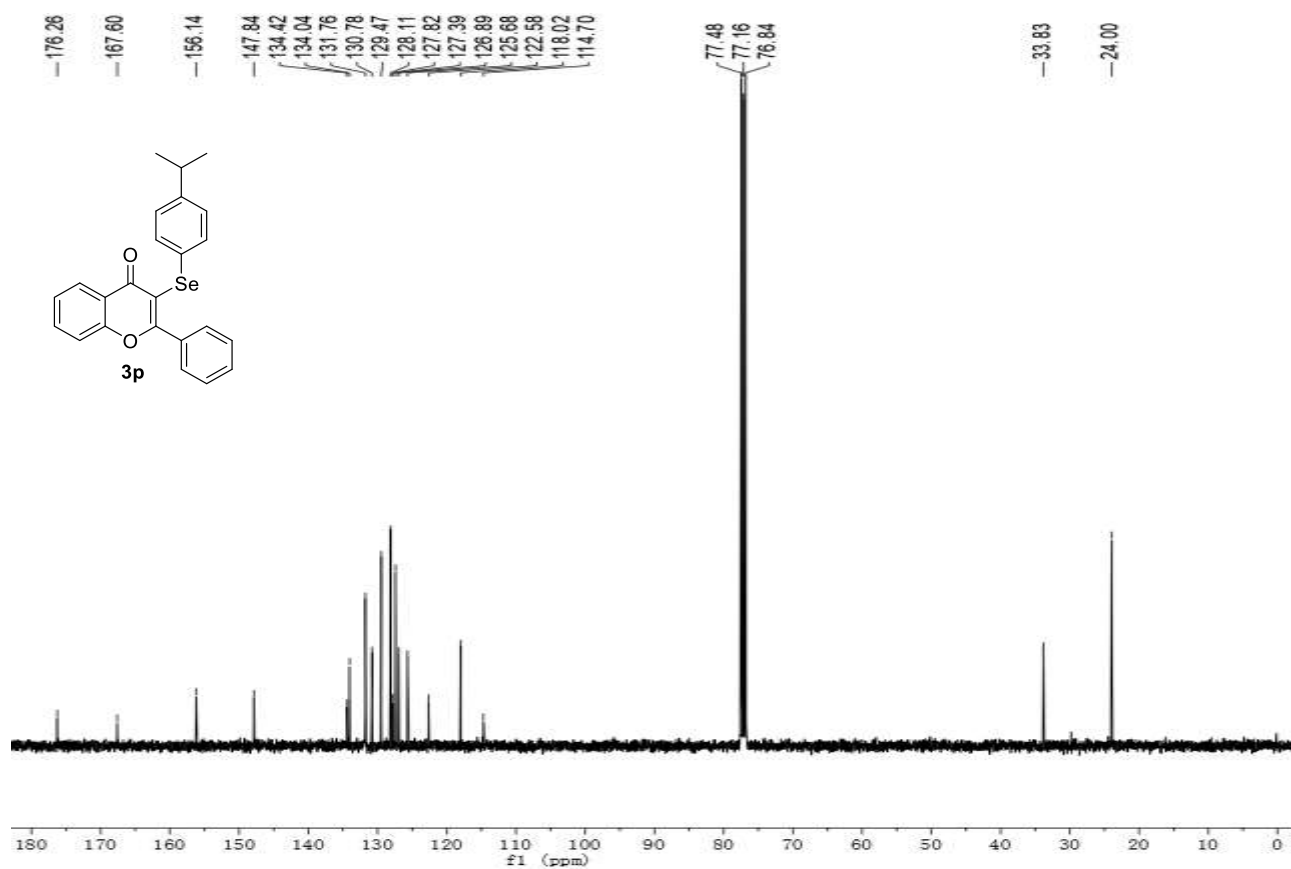
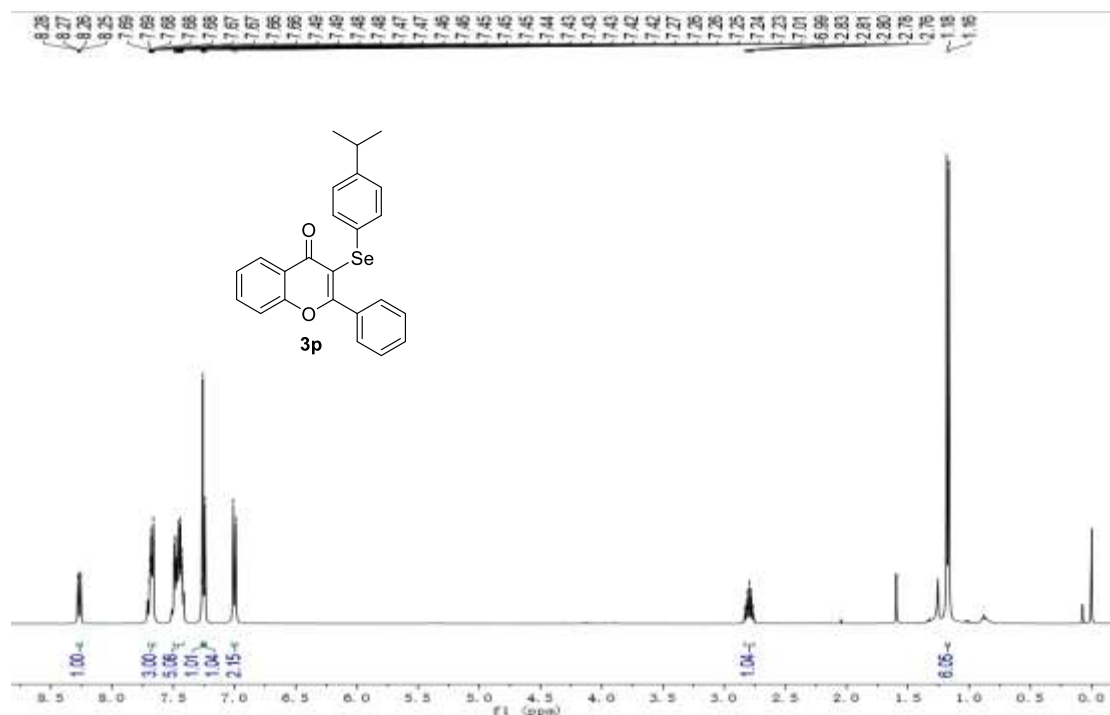


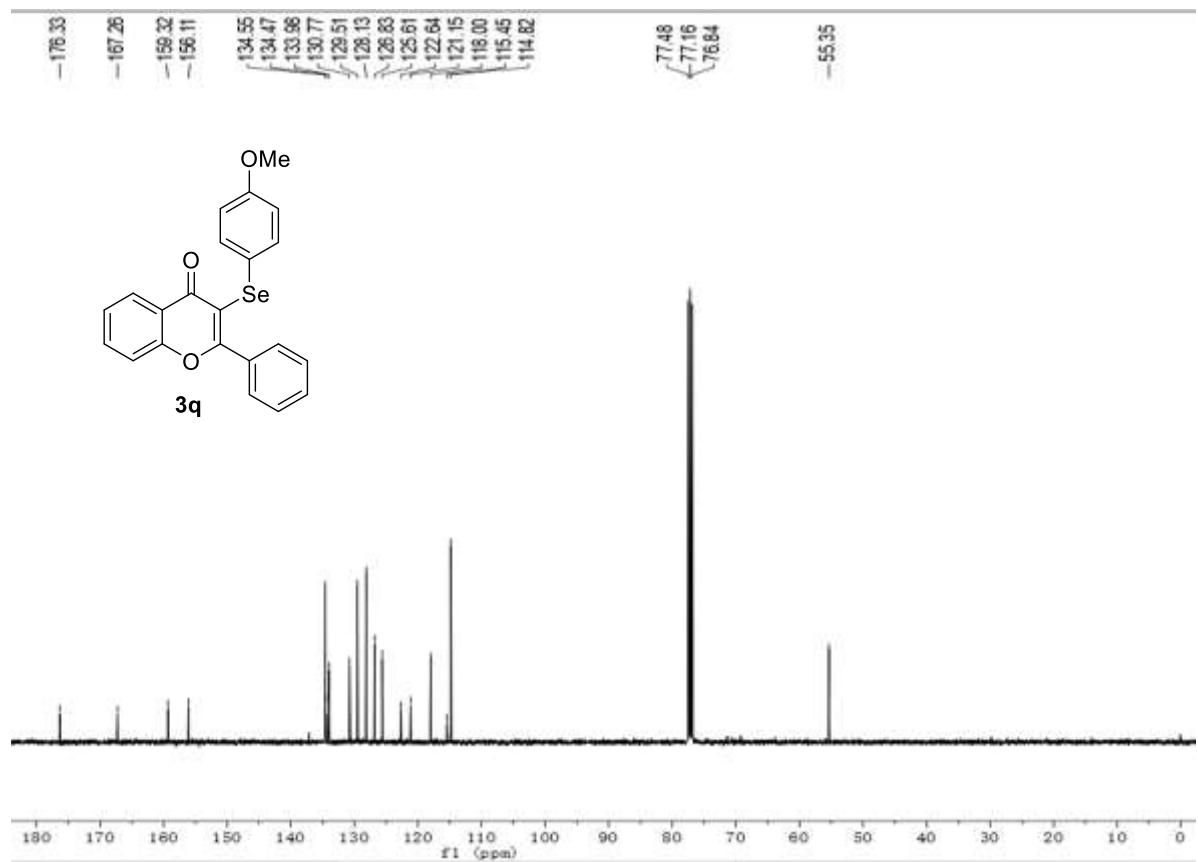
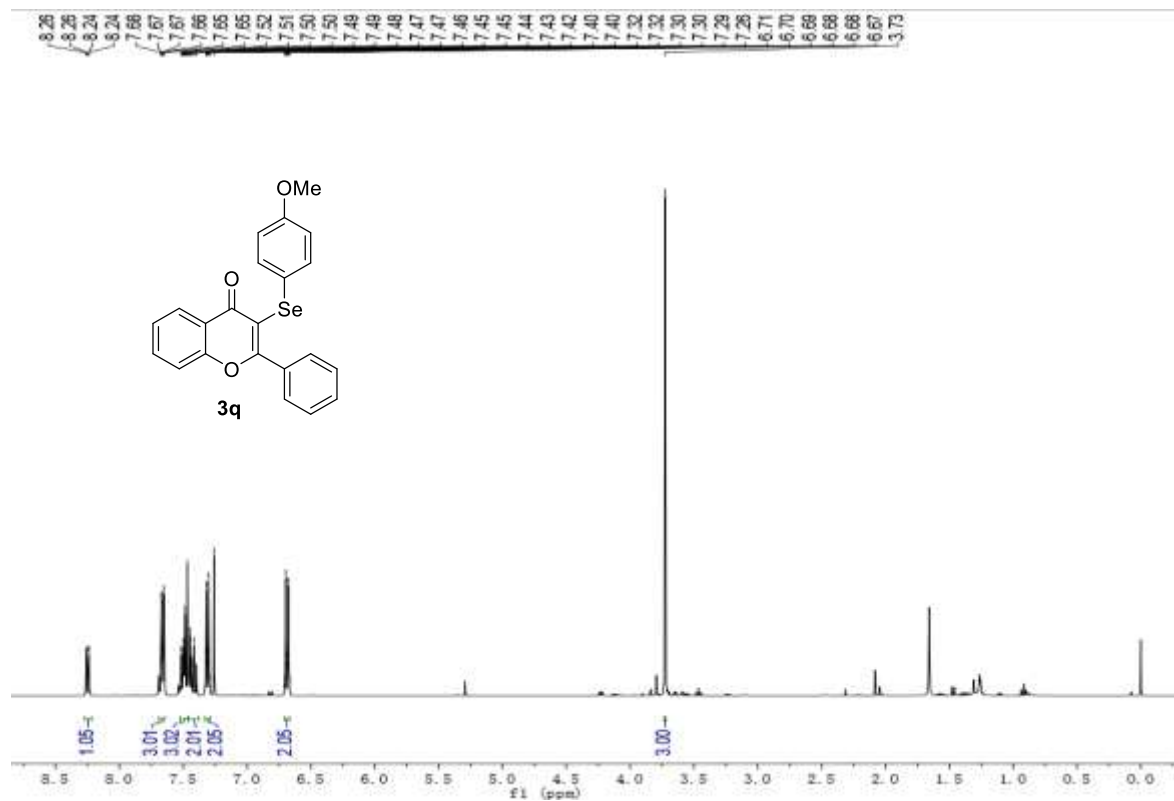


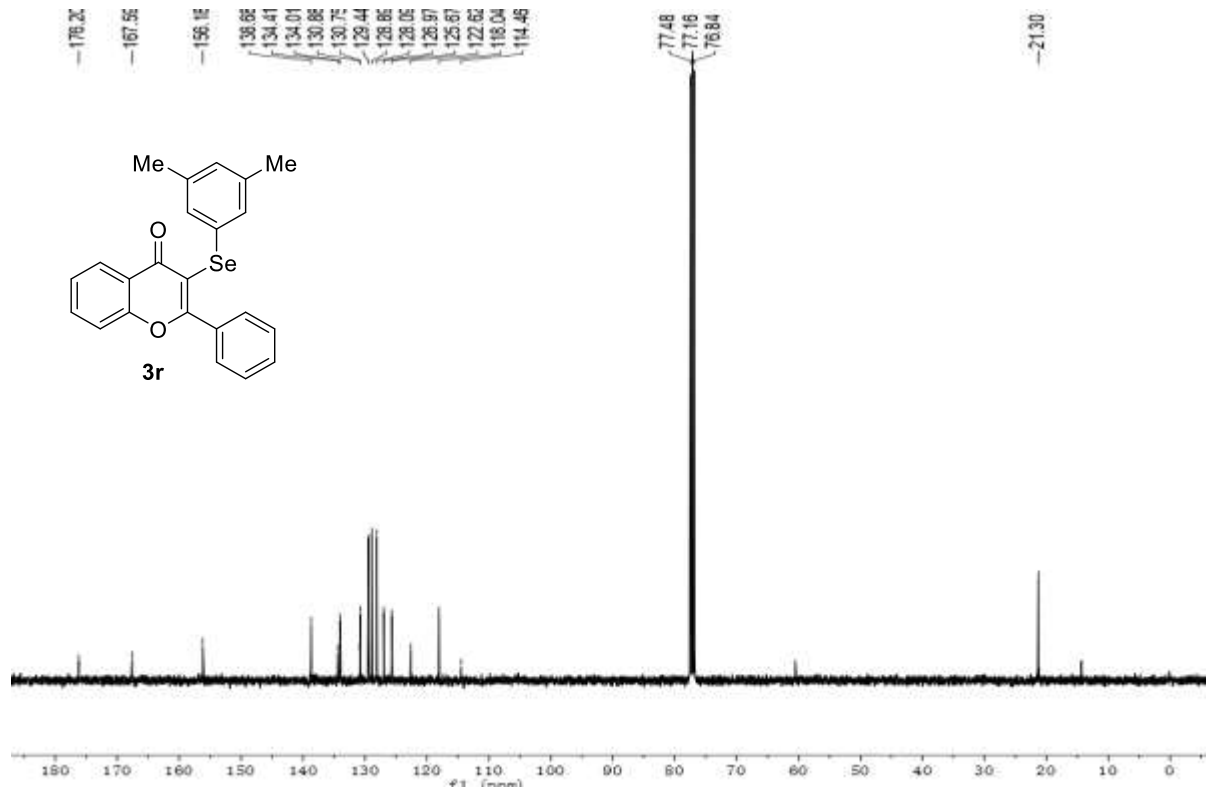
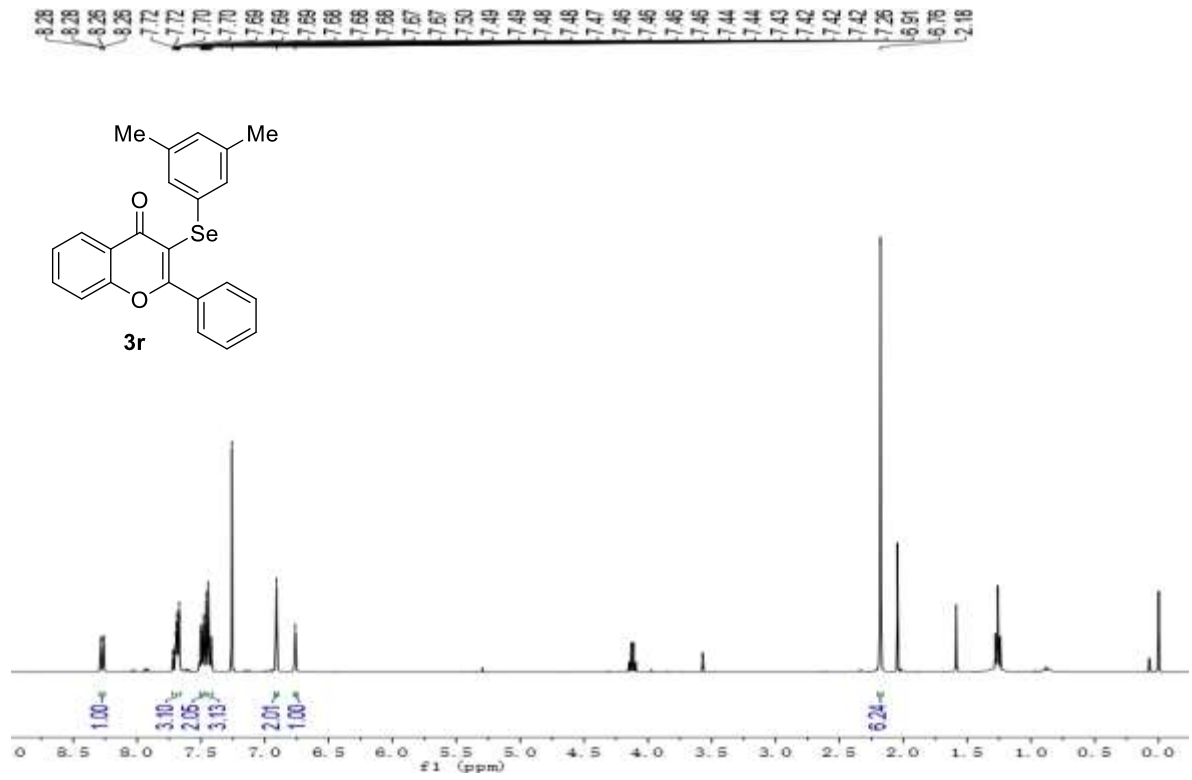


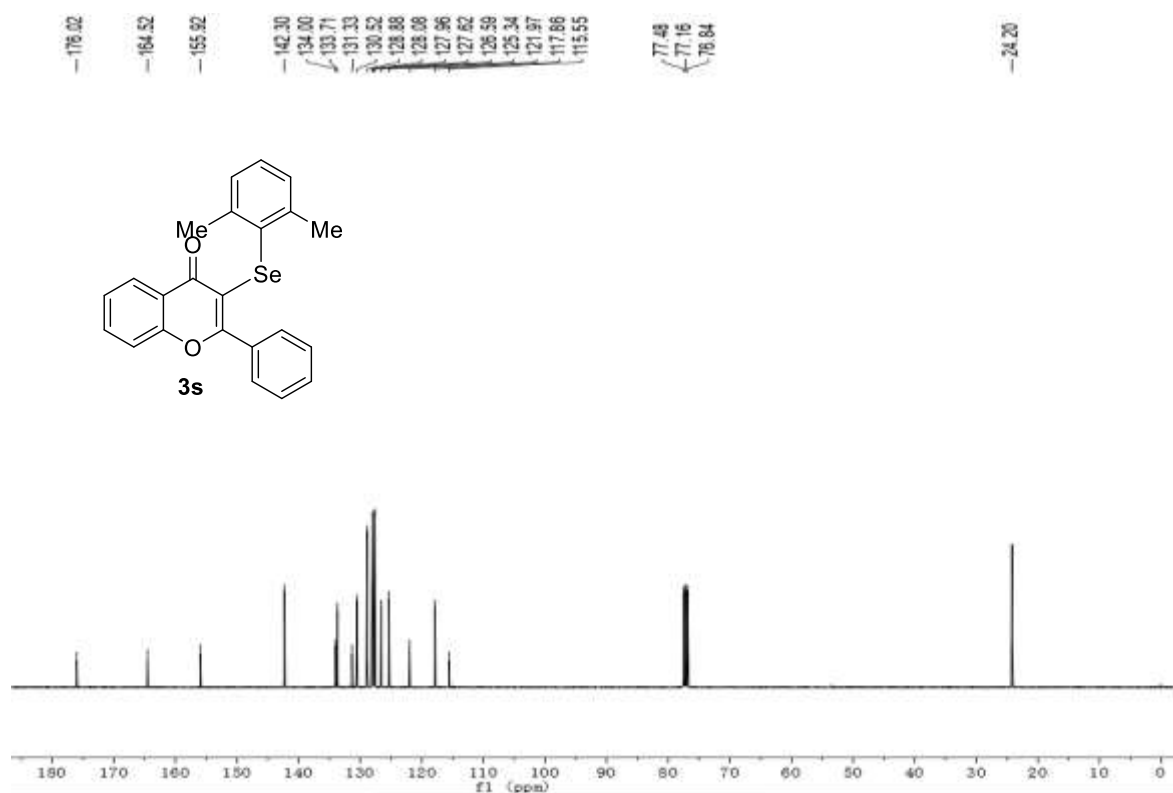
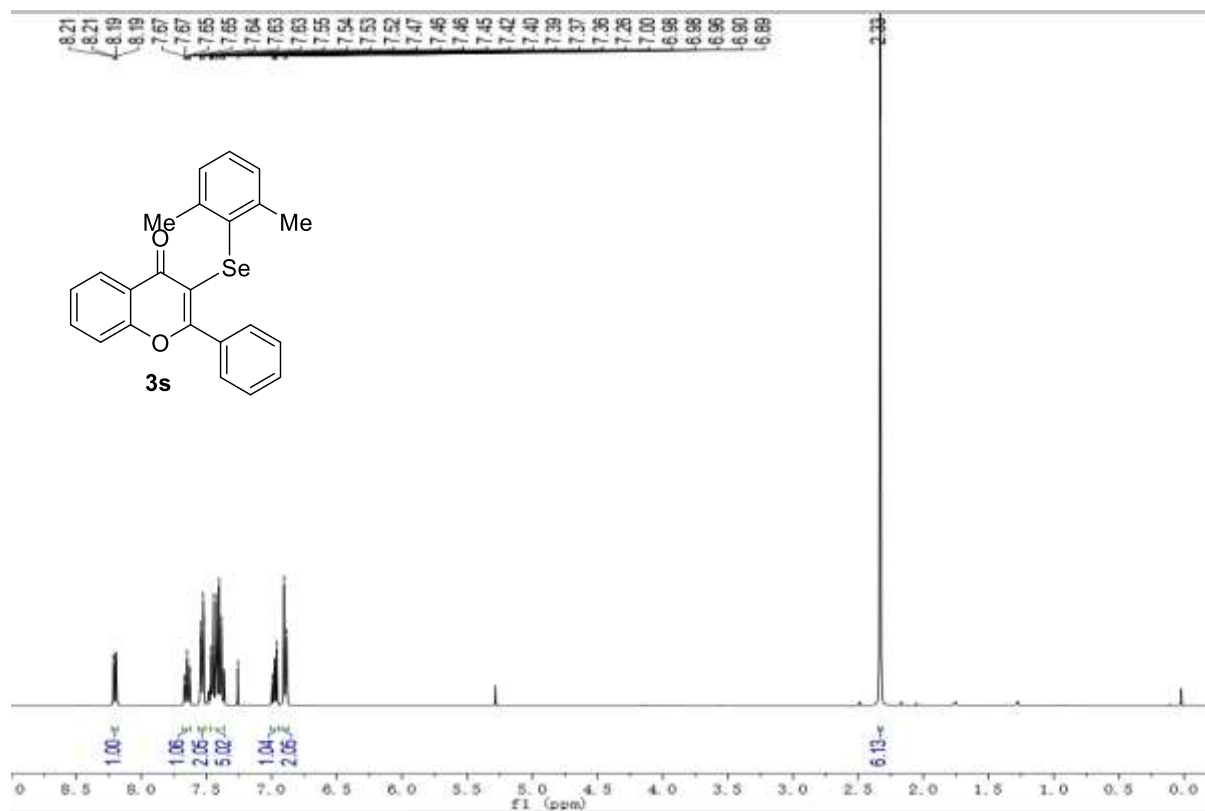


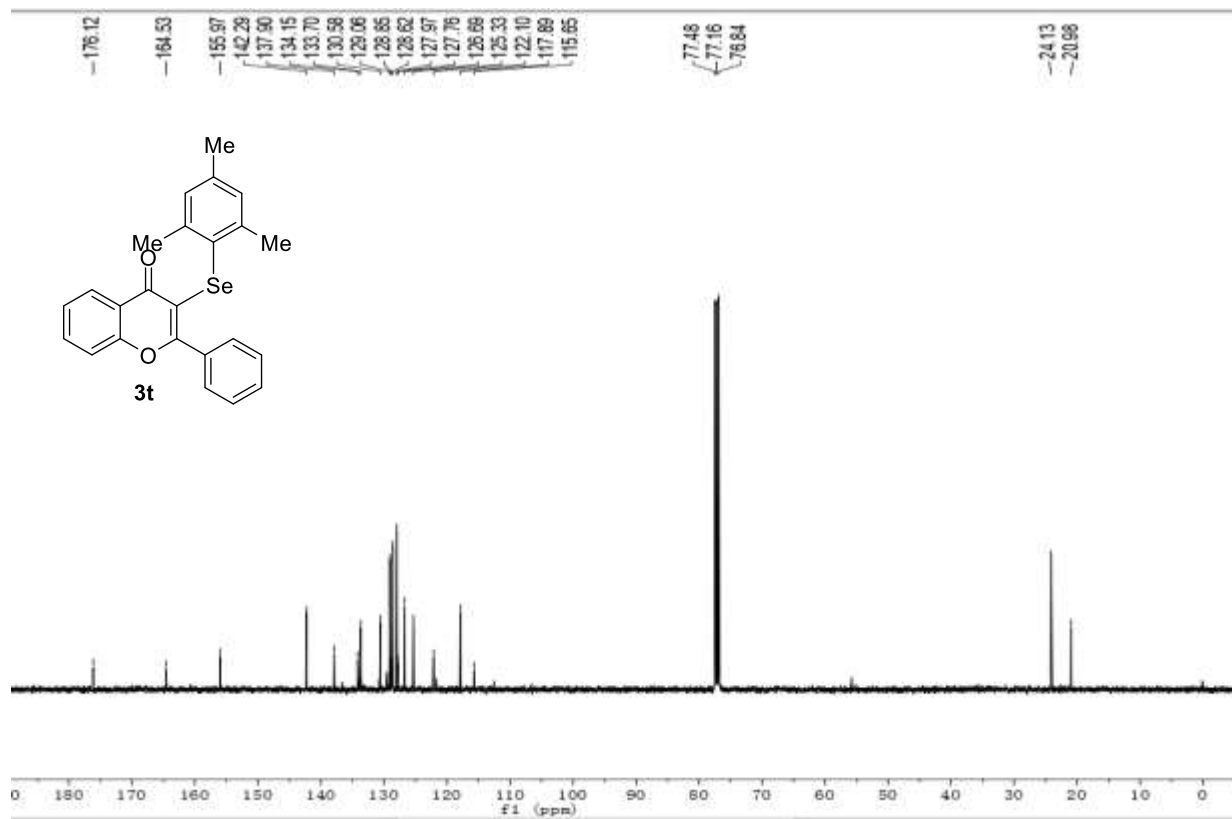
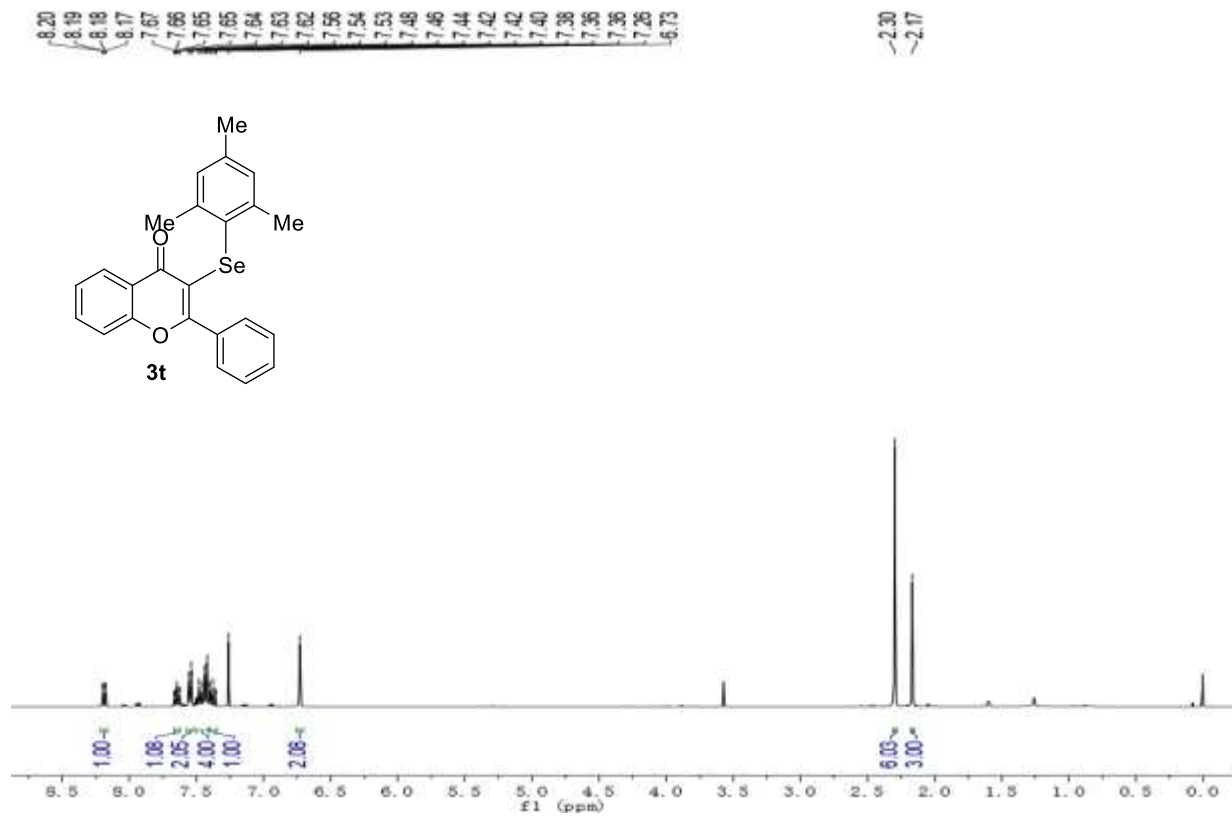


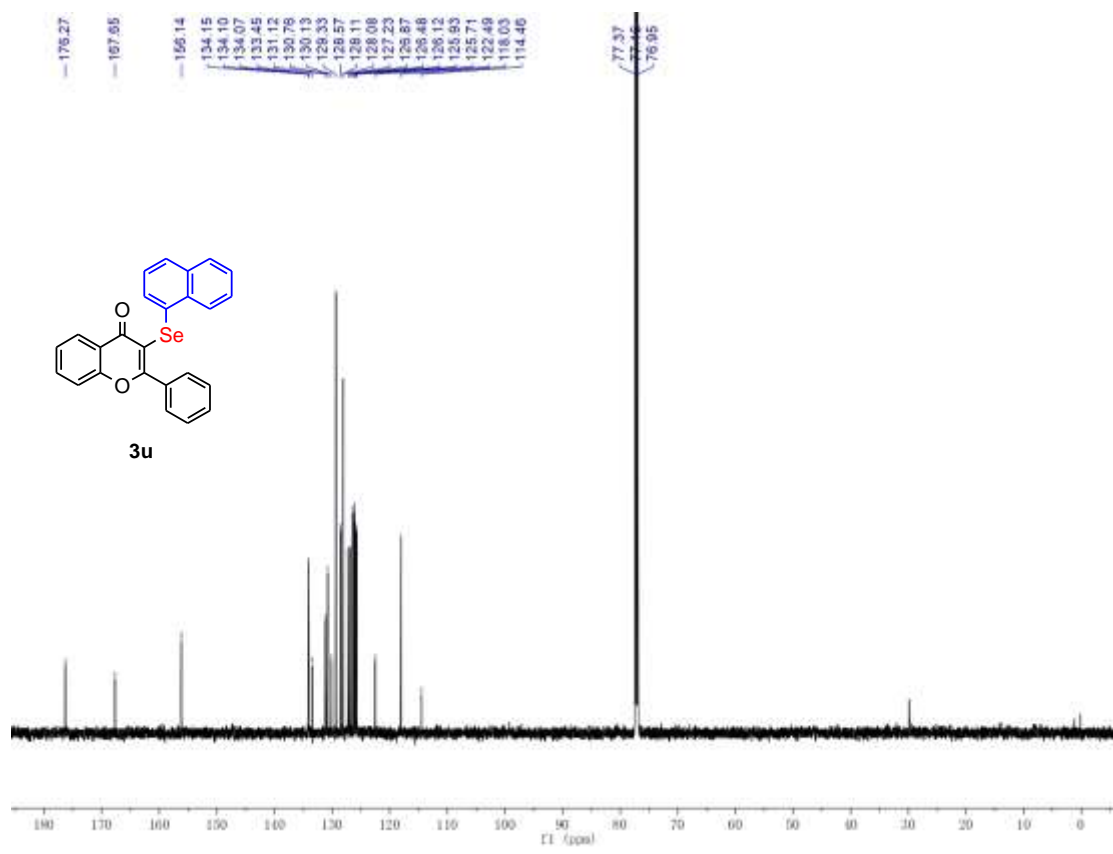
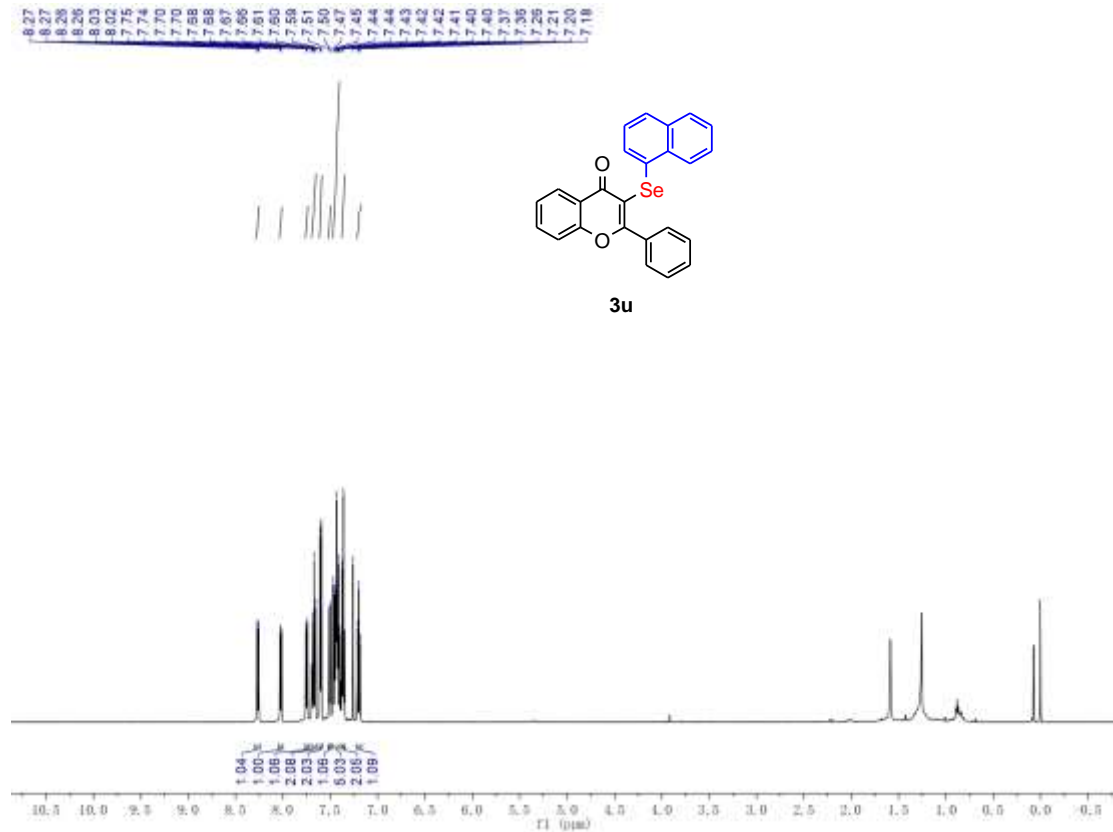


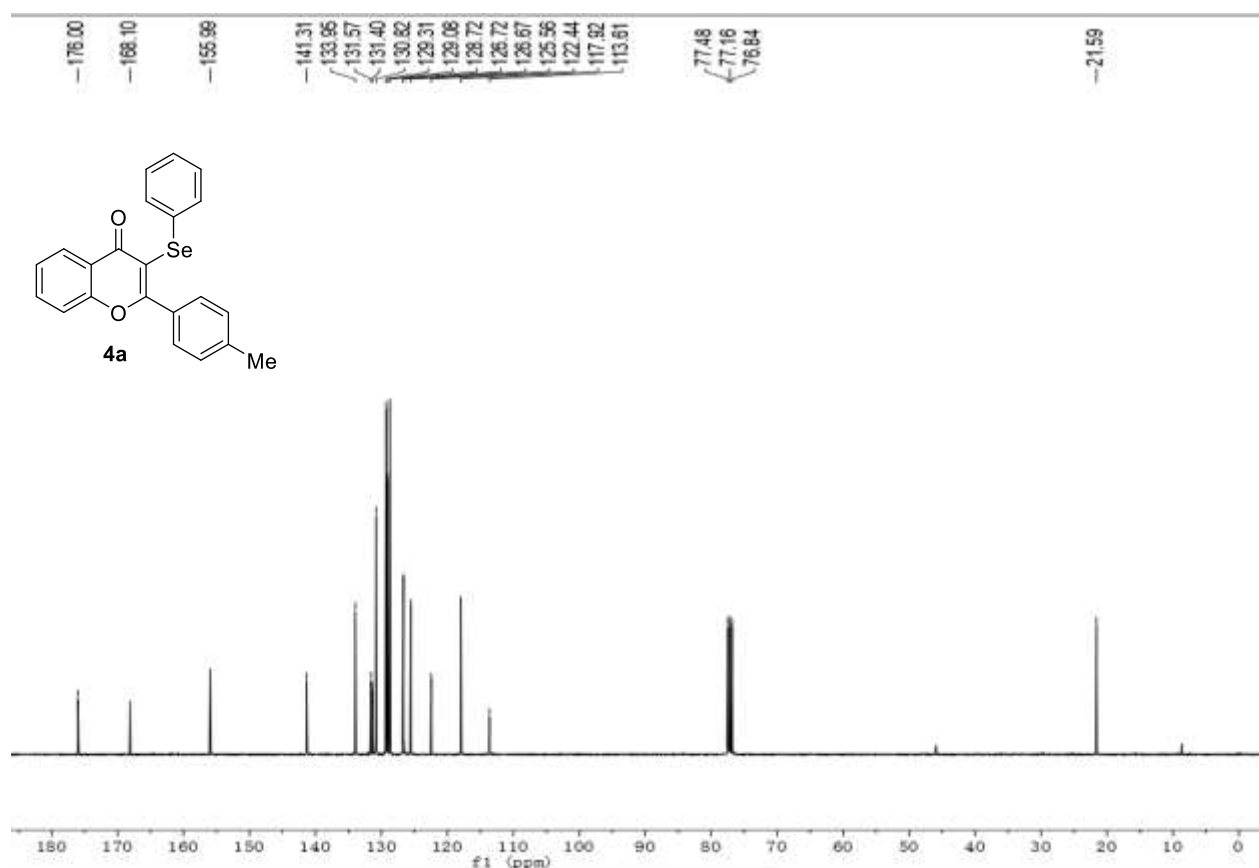
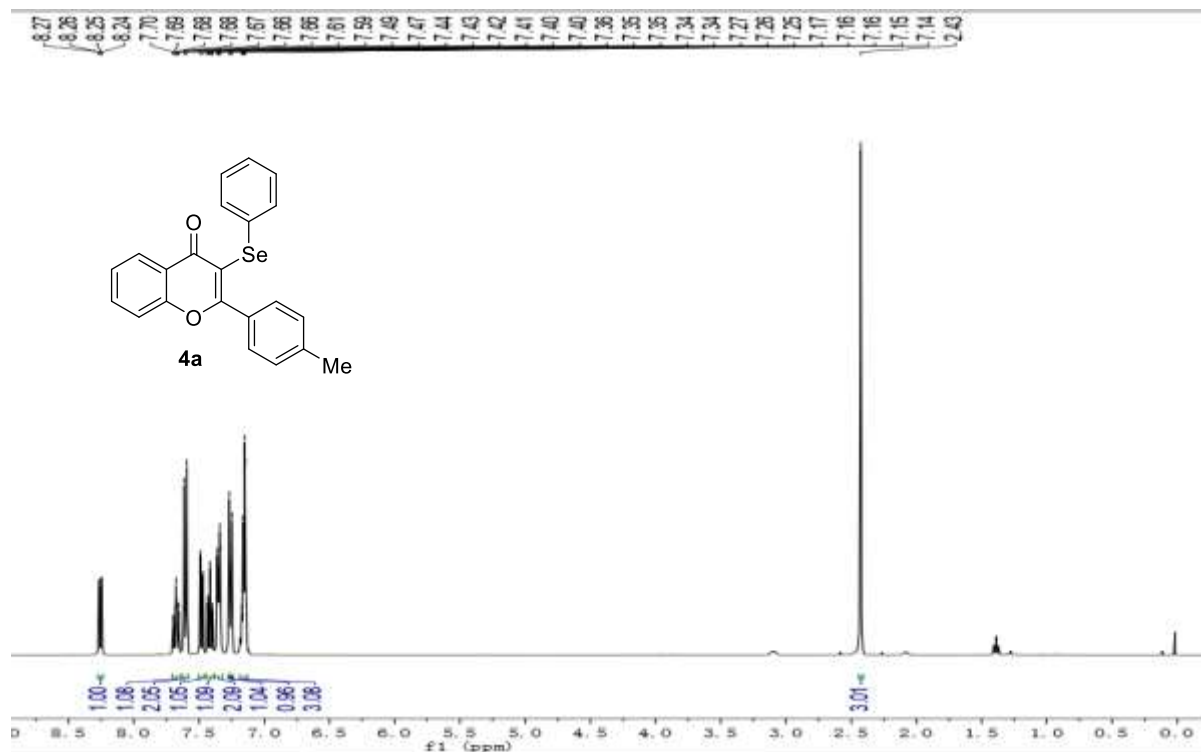


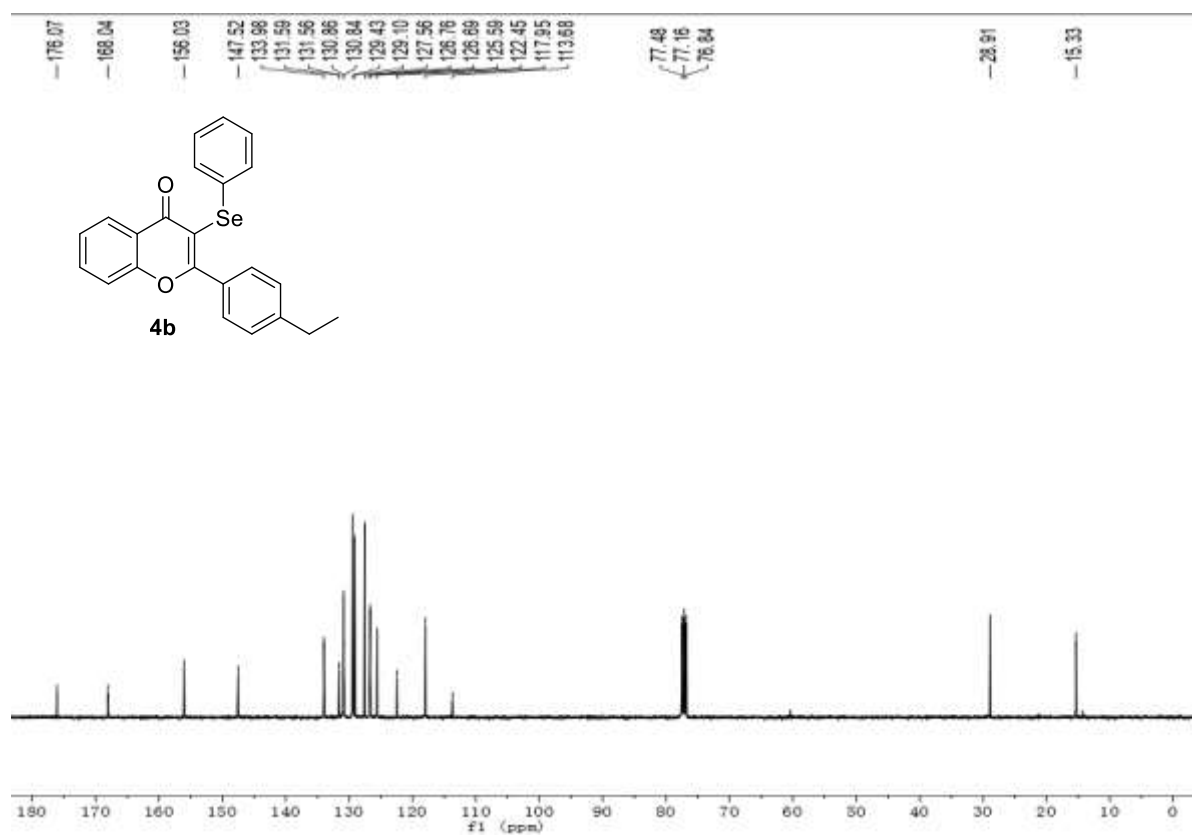
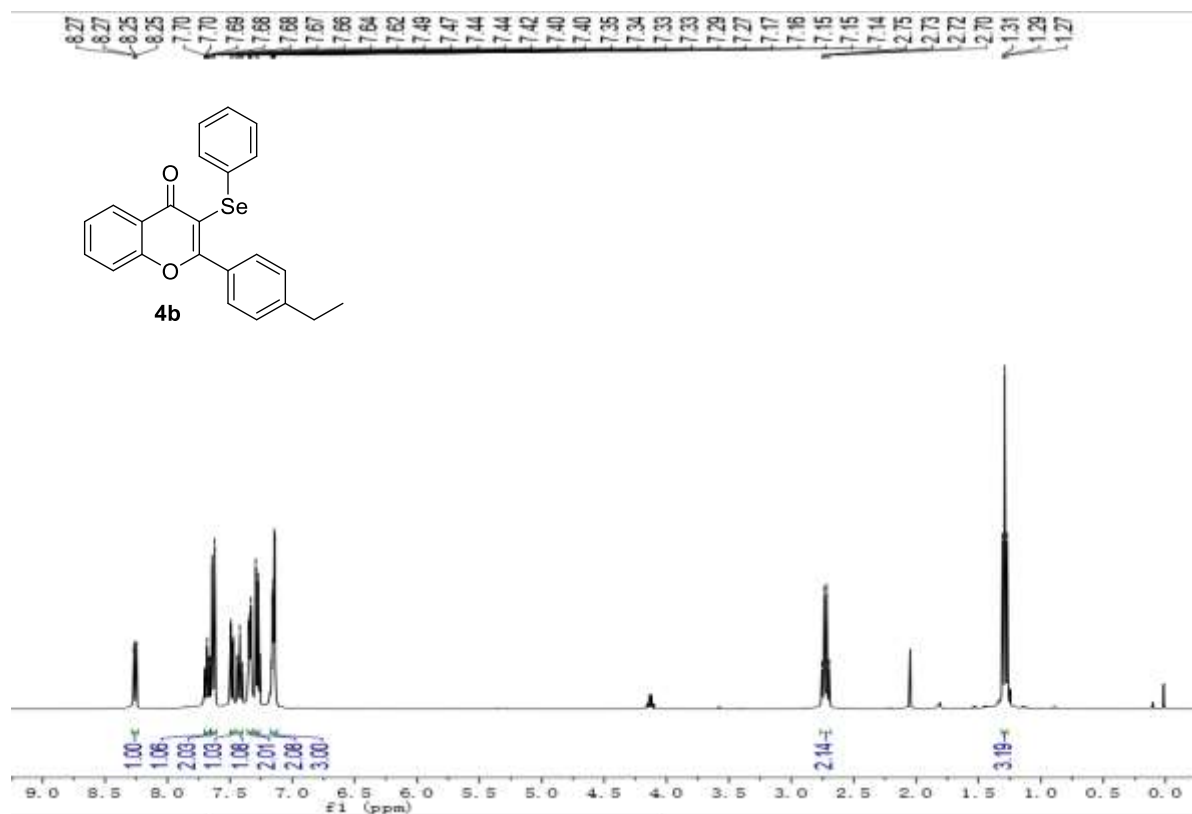




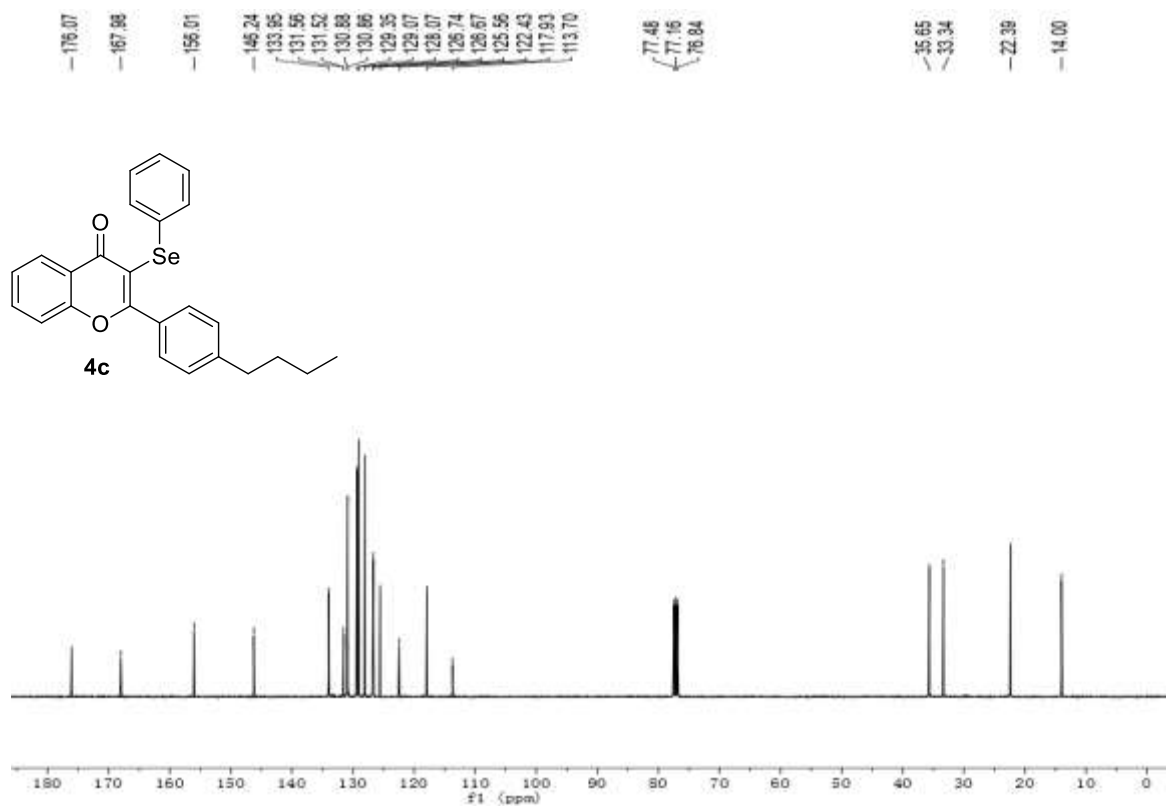
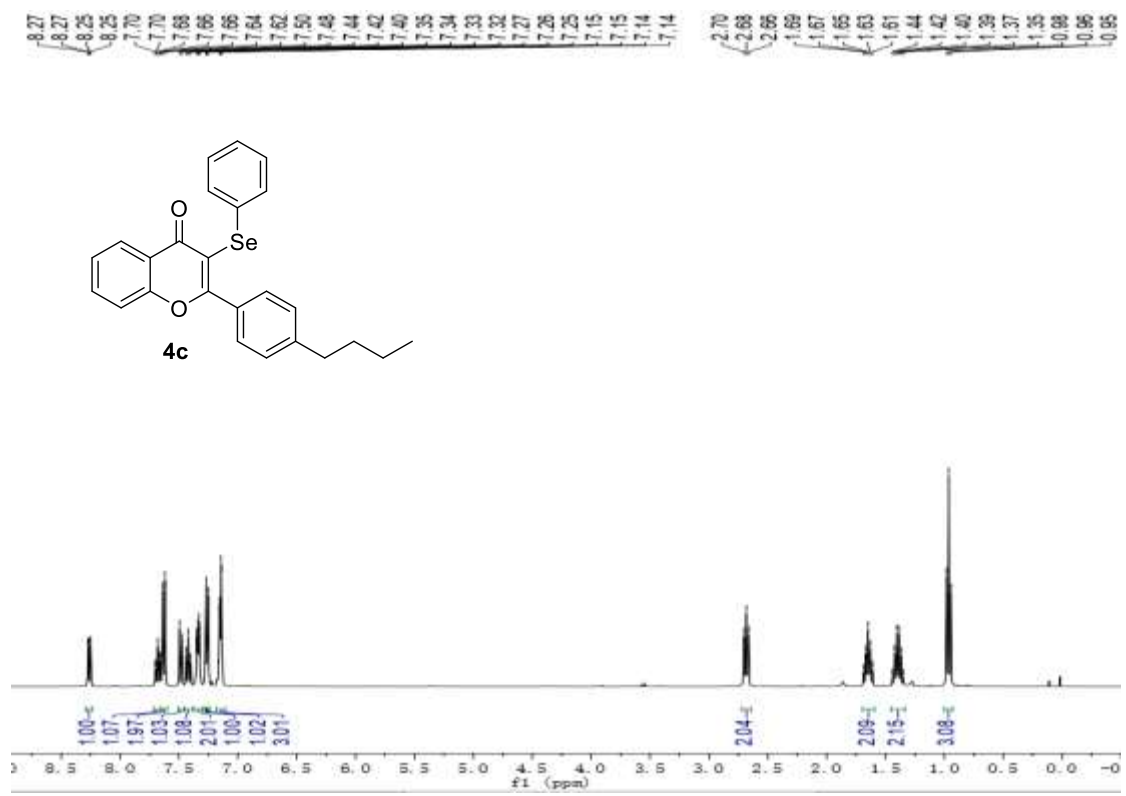




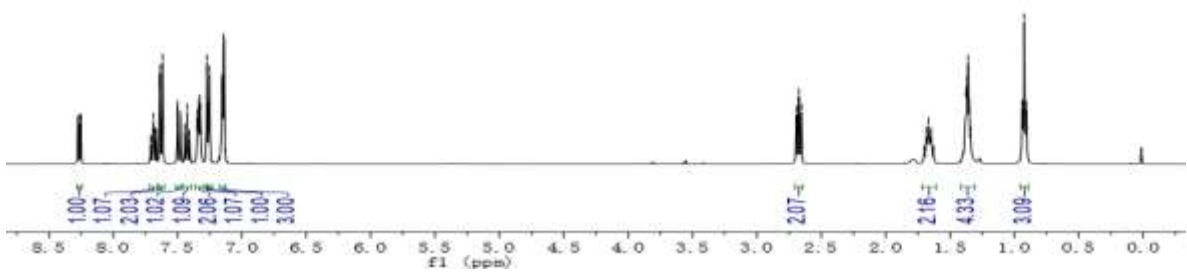
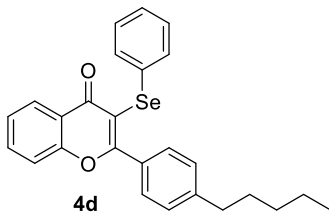




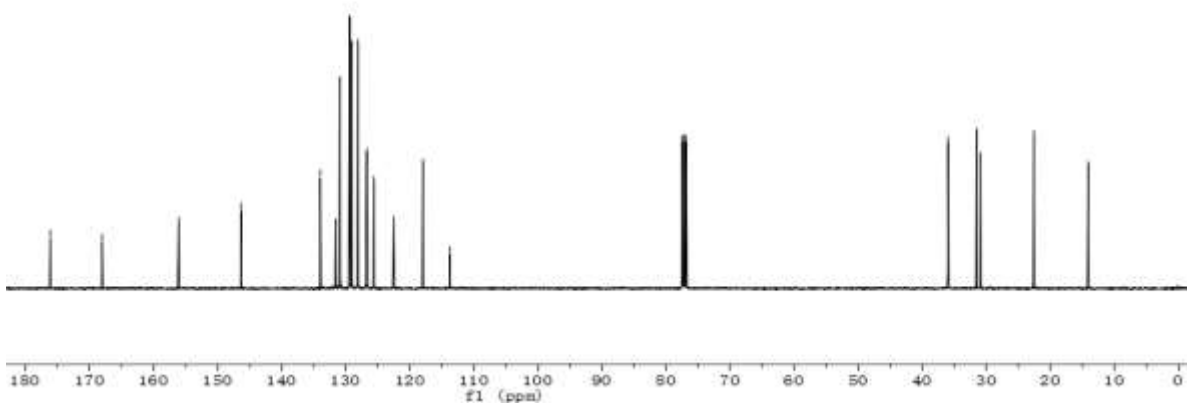
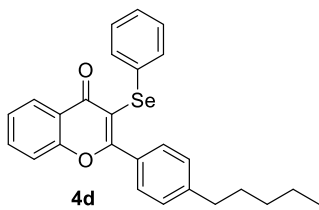


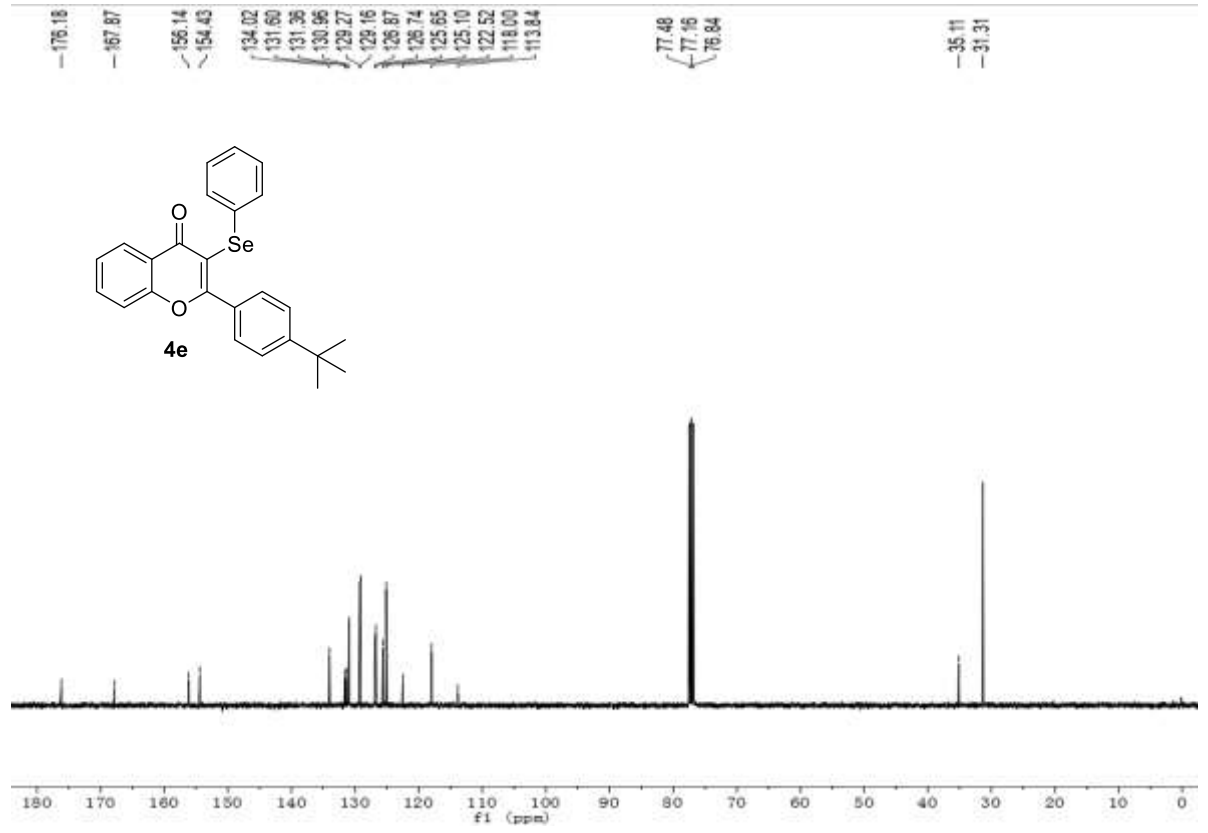
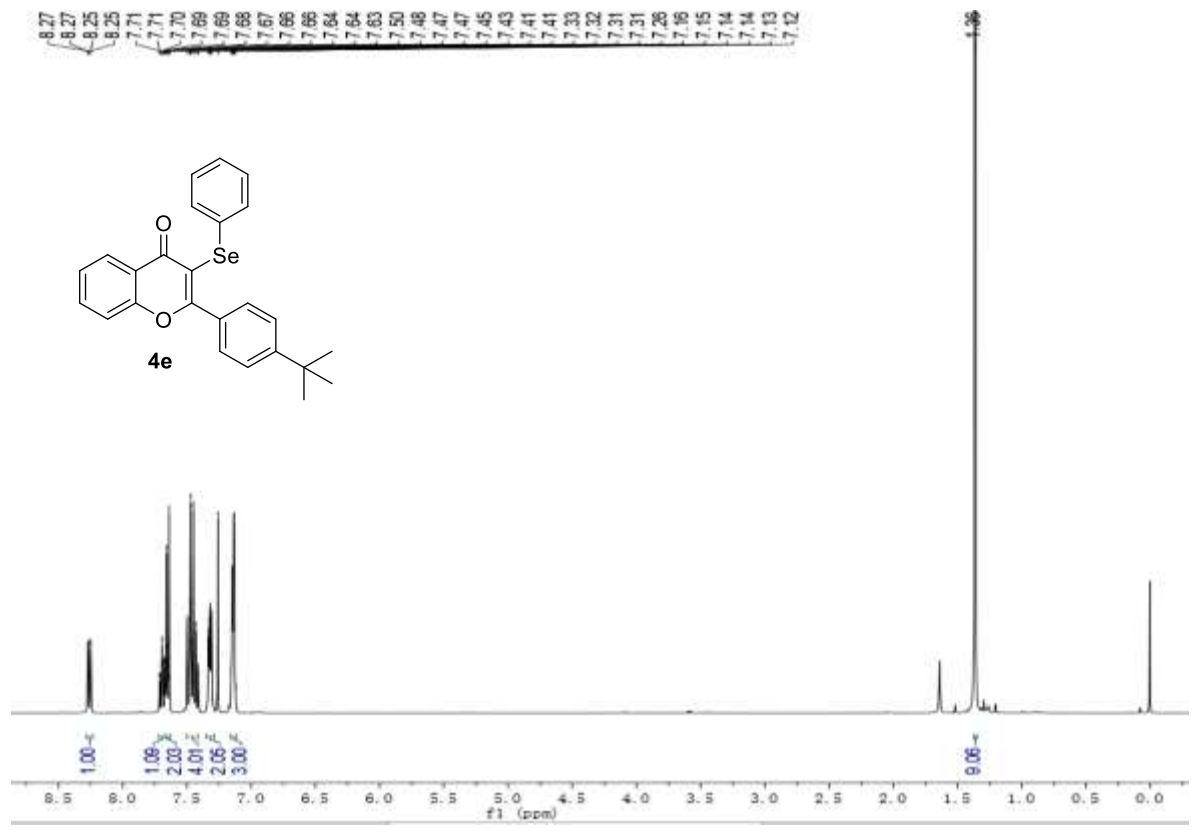


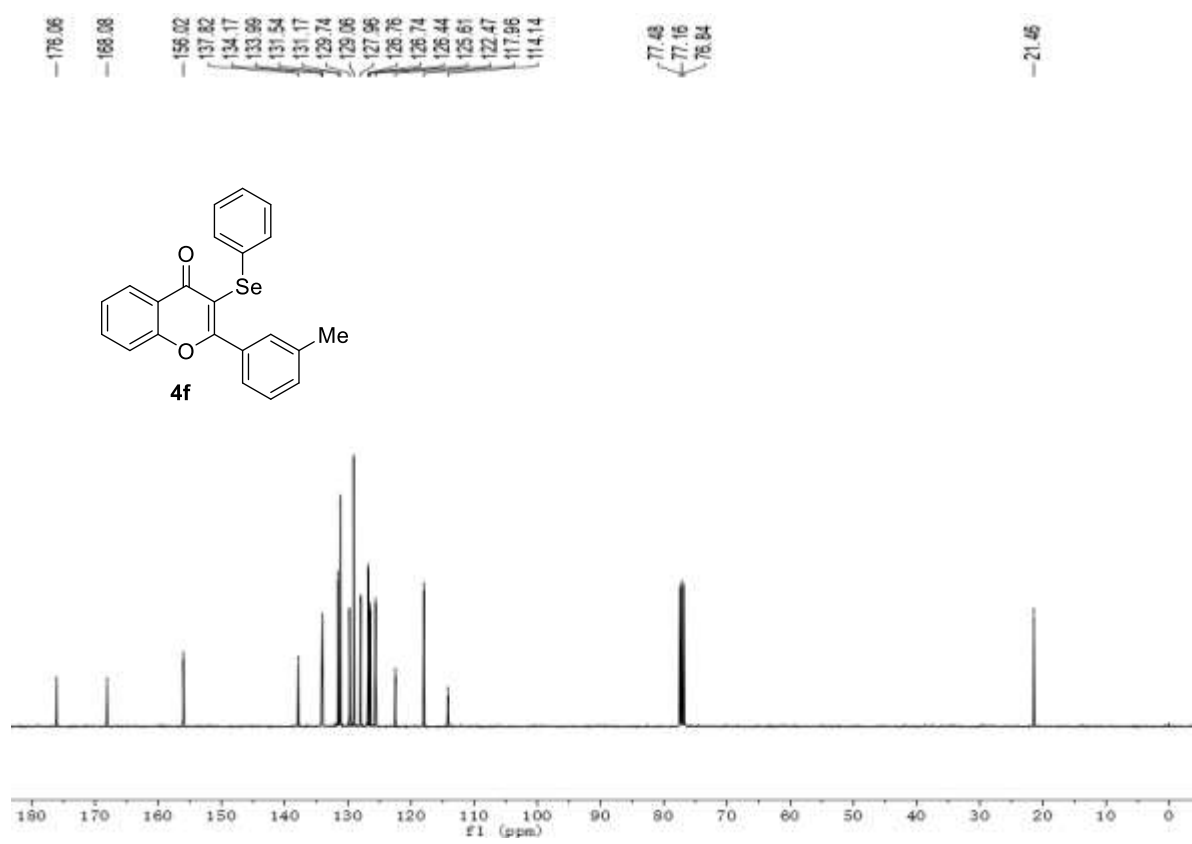
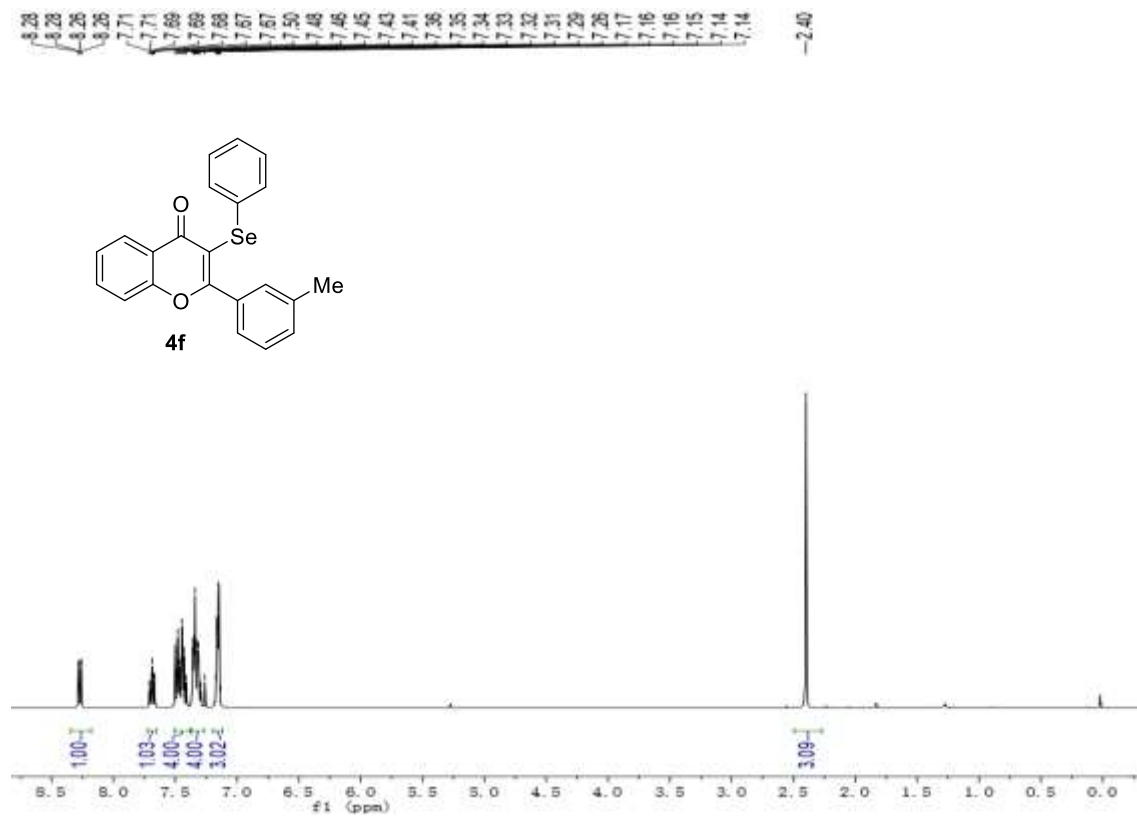
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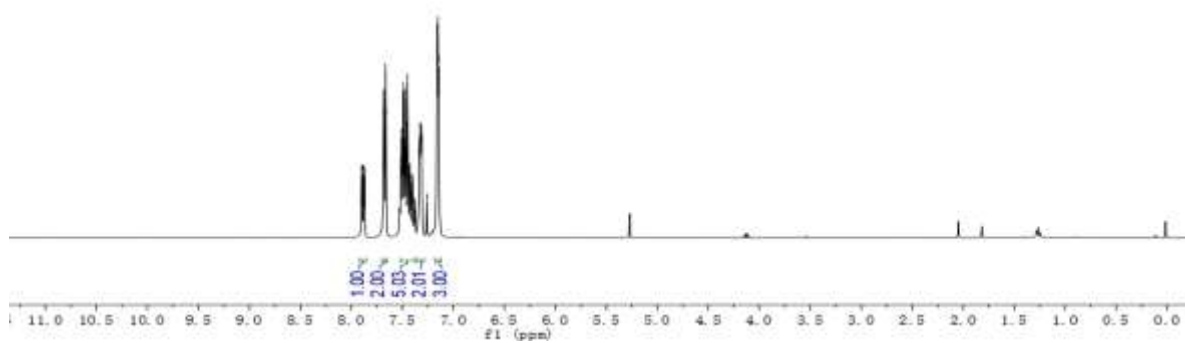
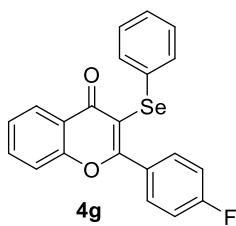
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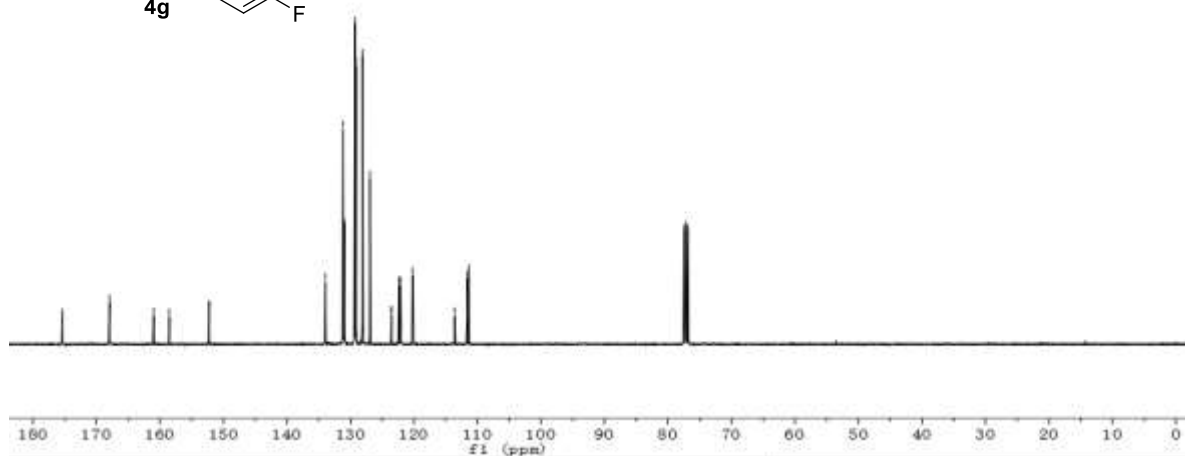
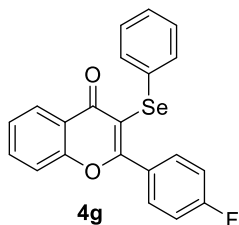


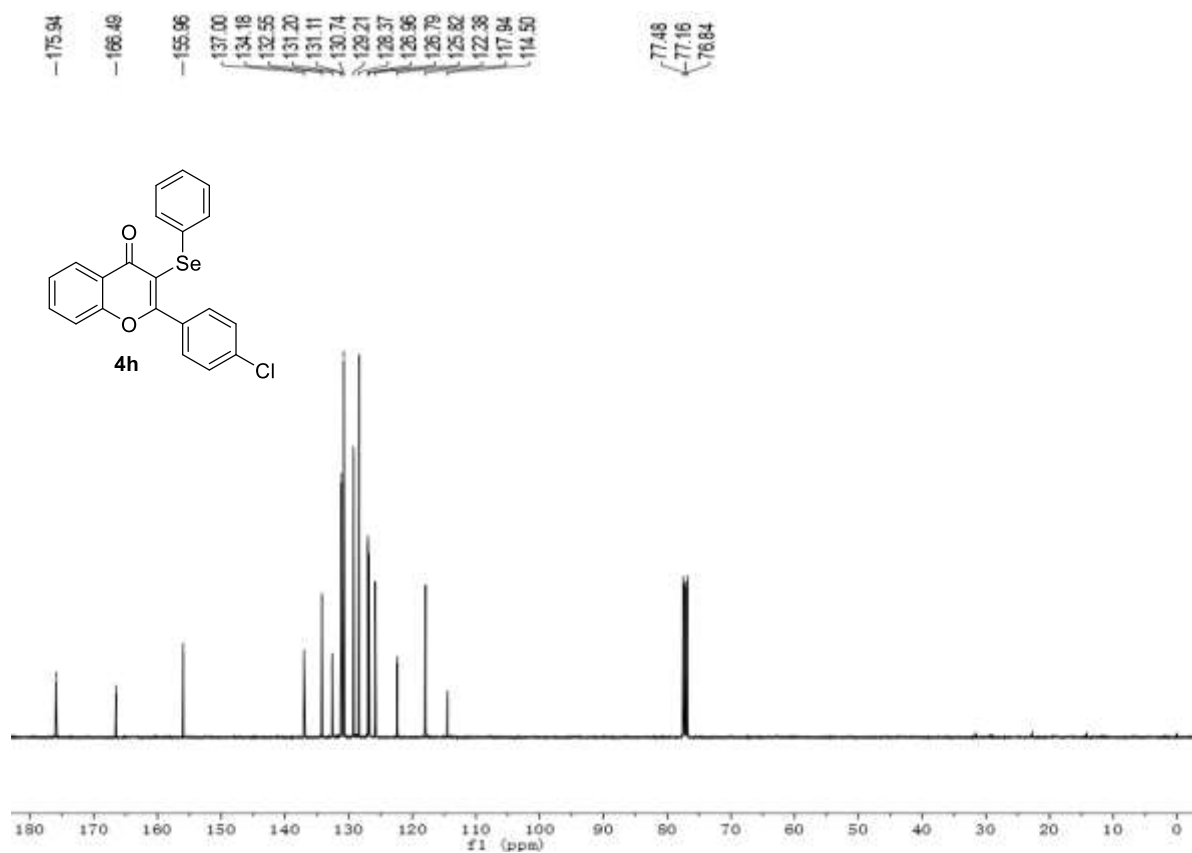
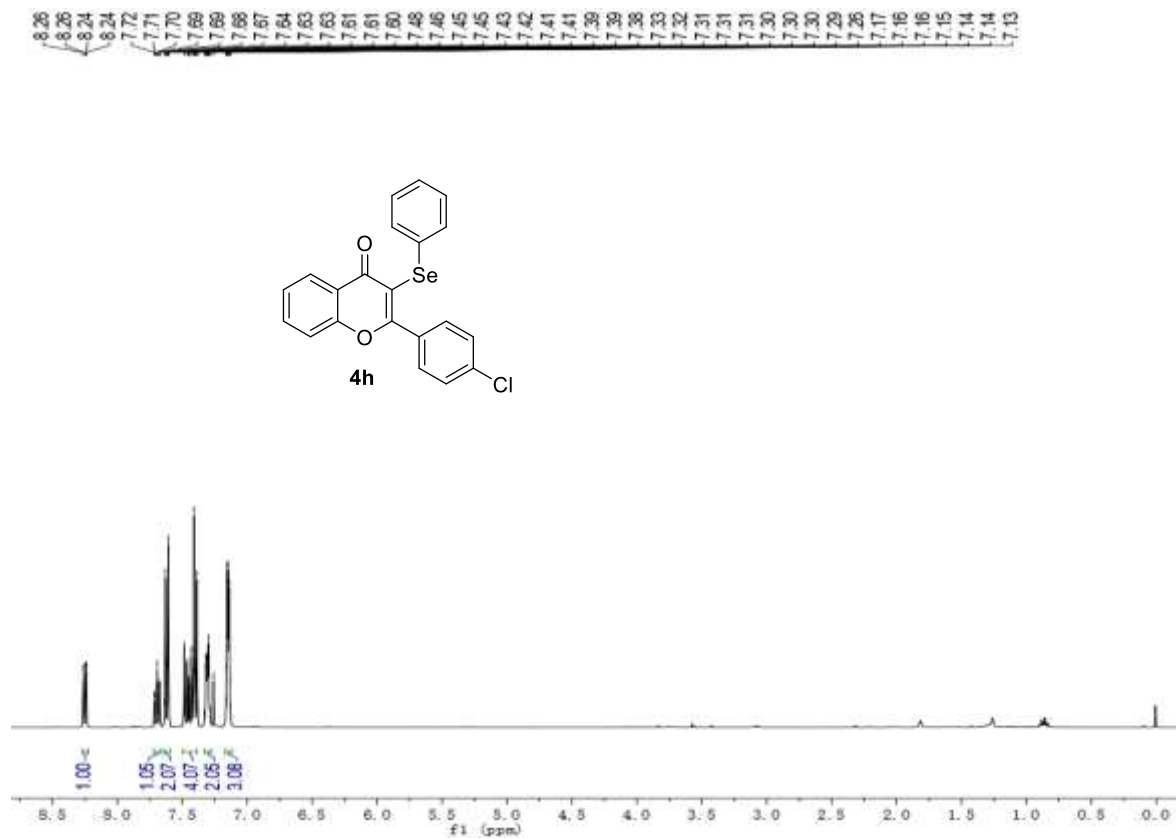


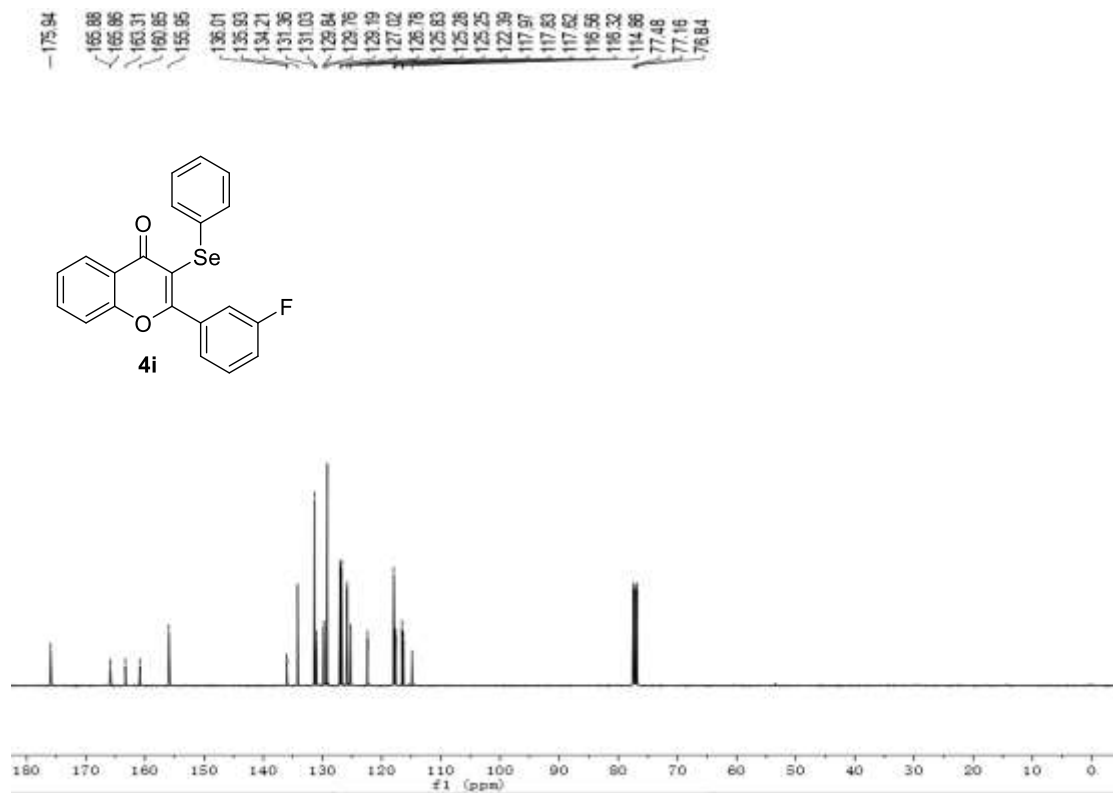
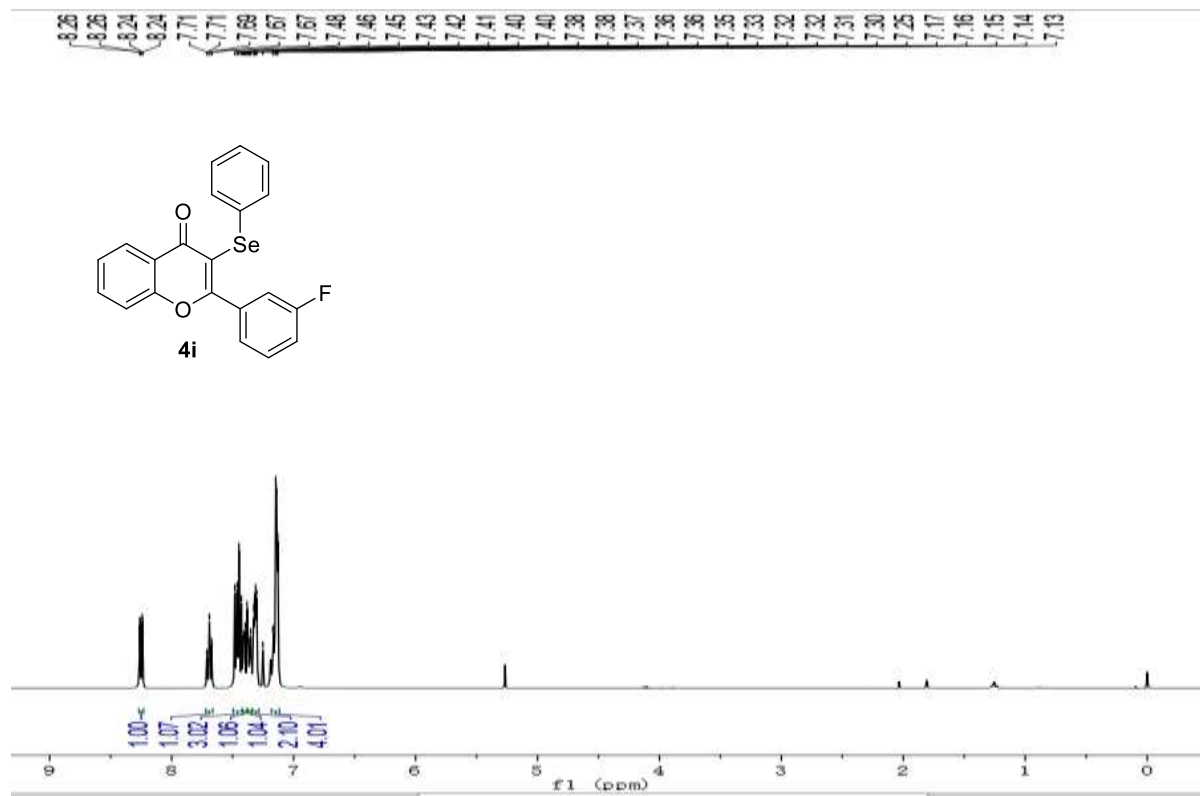
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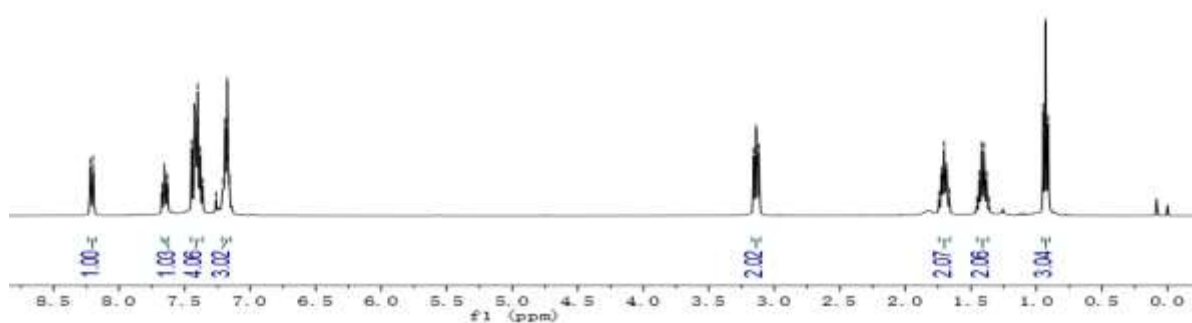
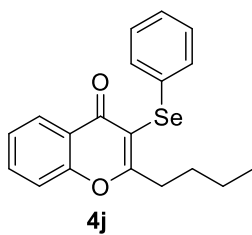
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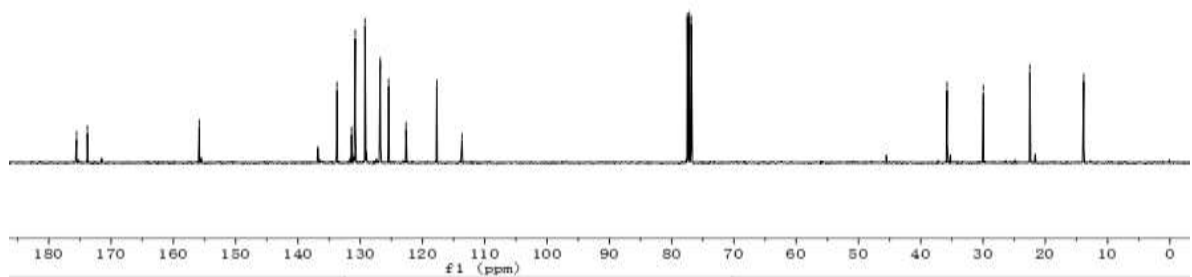
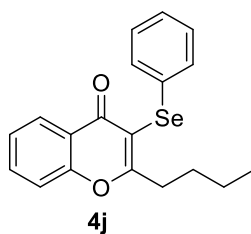




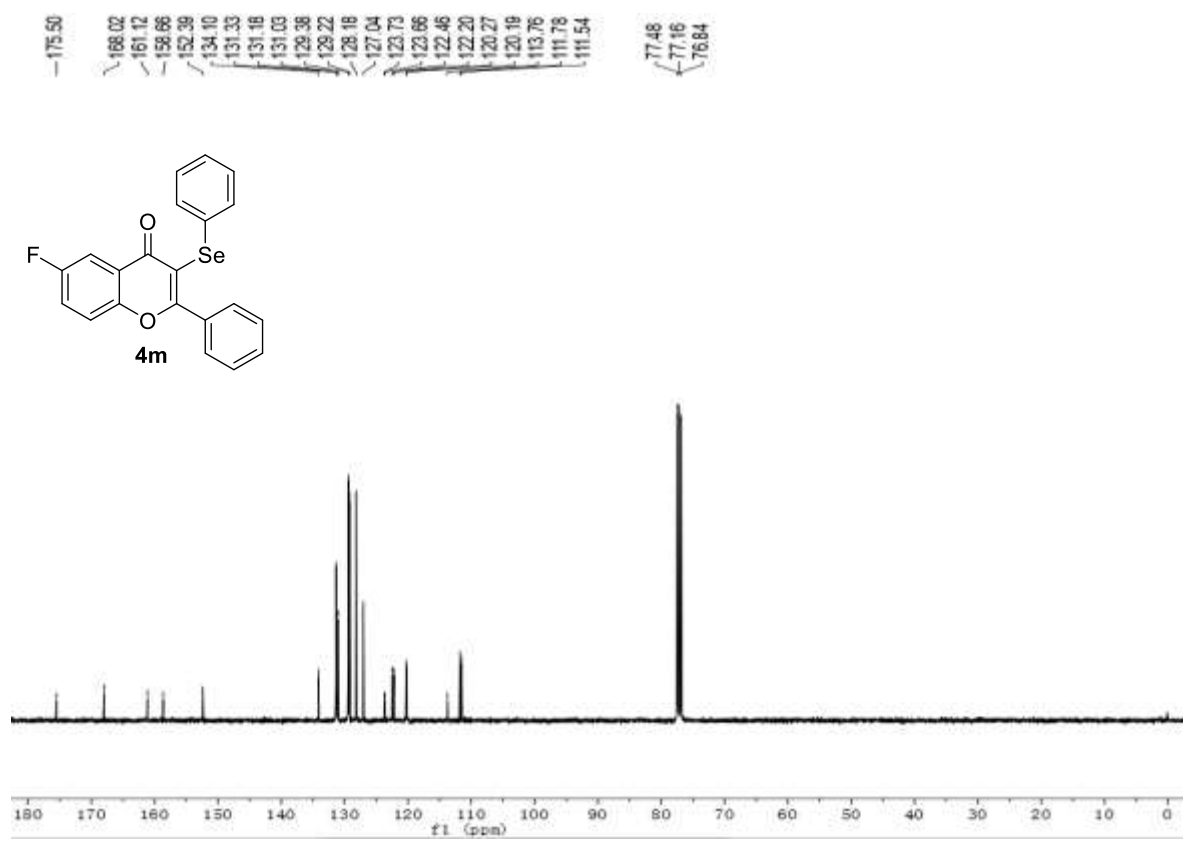
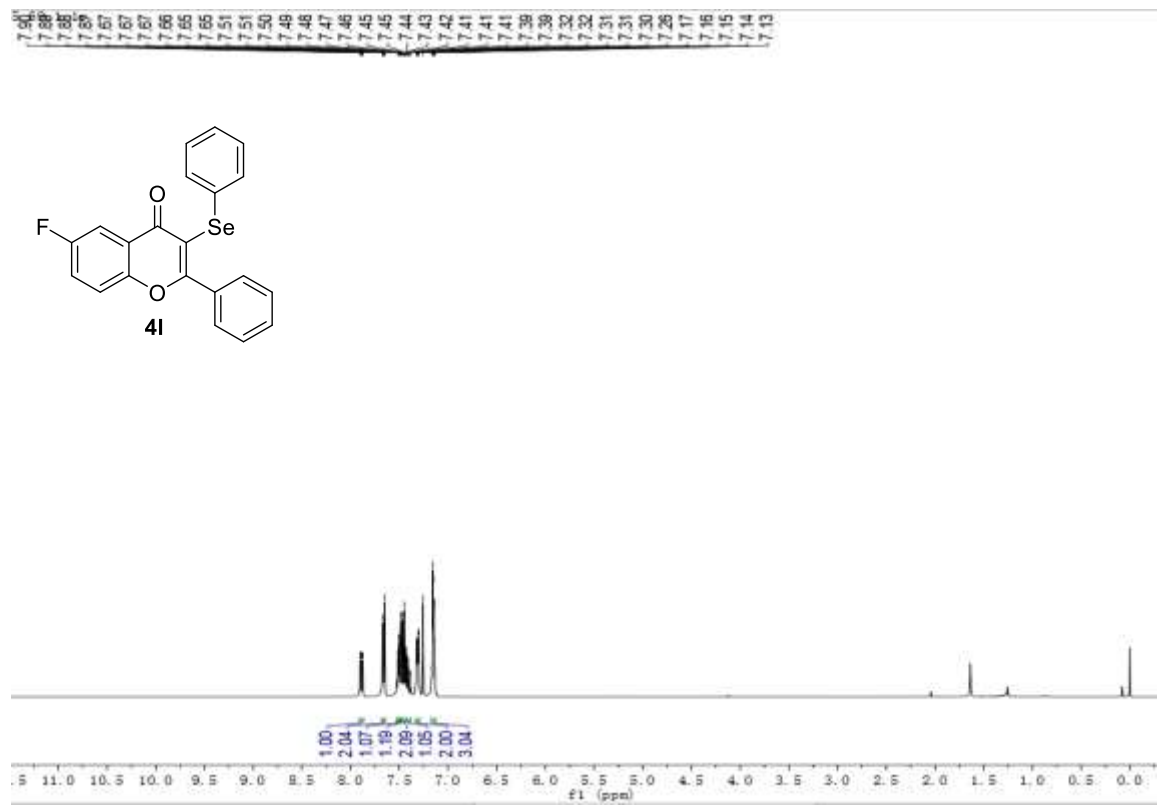
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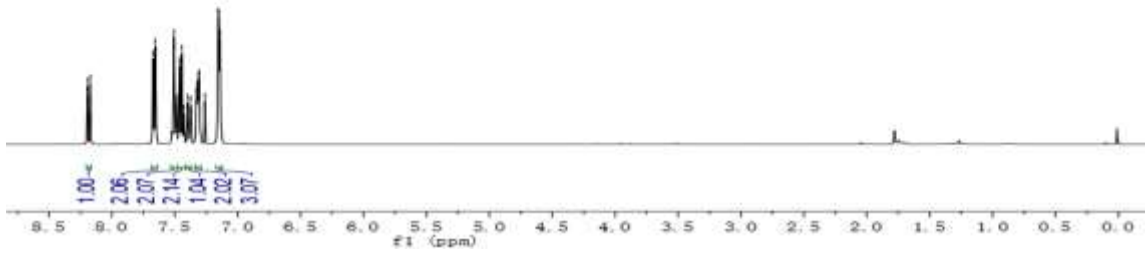
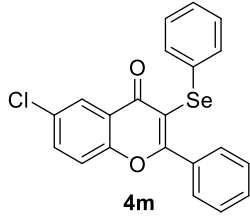
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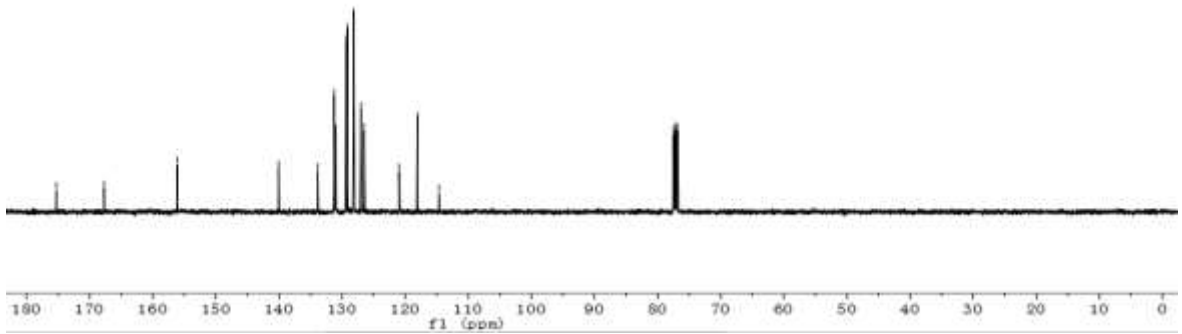
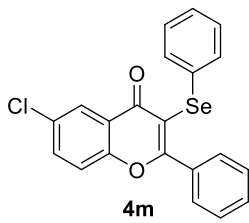




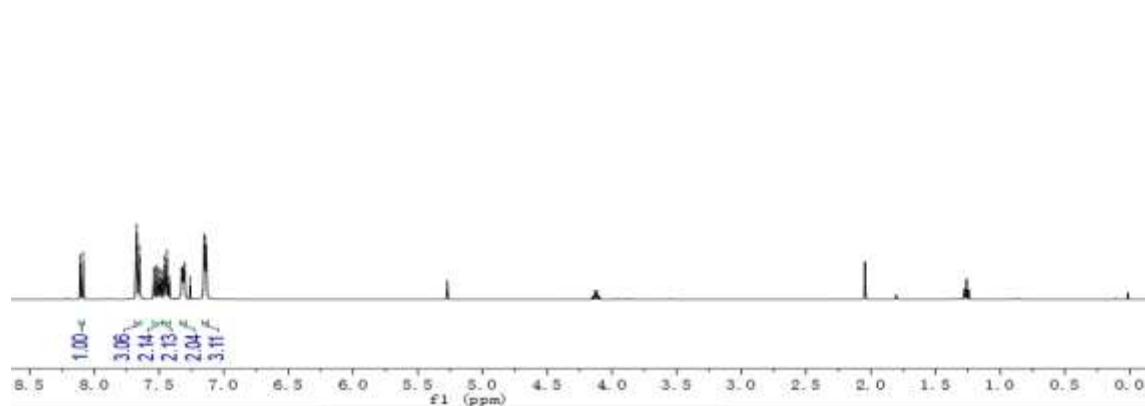
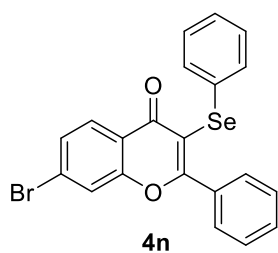
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7.49  
7.46  
7.44  
7.43  
7.40  
7.38  
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7.26  
7.16  
7.15  
7.14



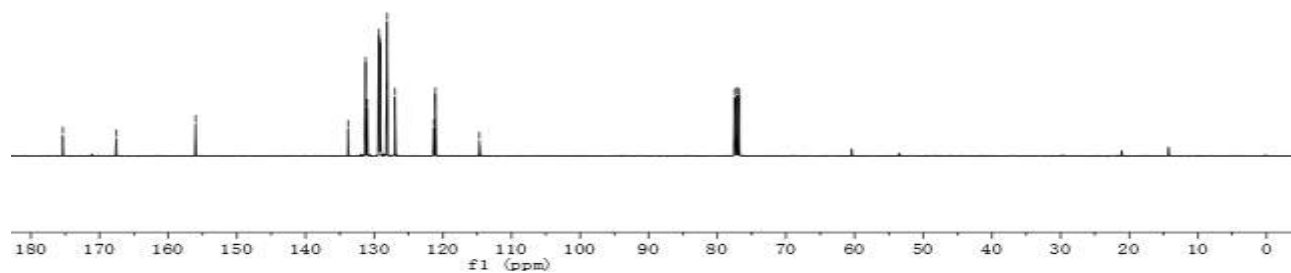
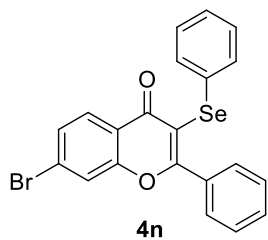
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131.25  
131.08  
131.02  
129.33  
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114.65  
77.47  
77.16  
76.84

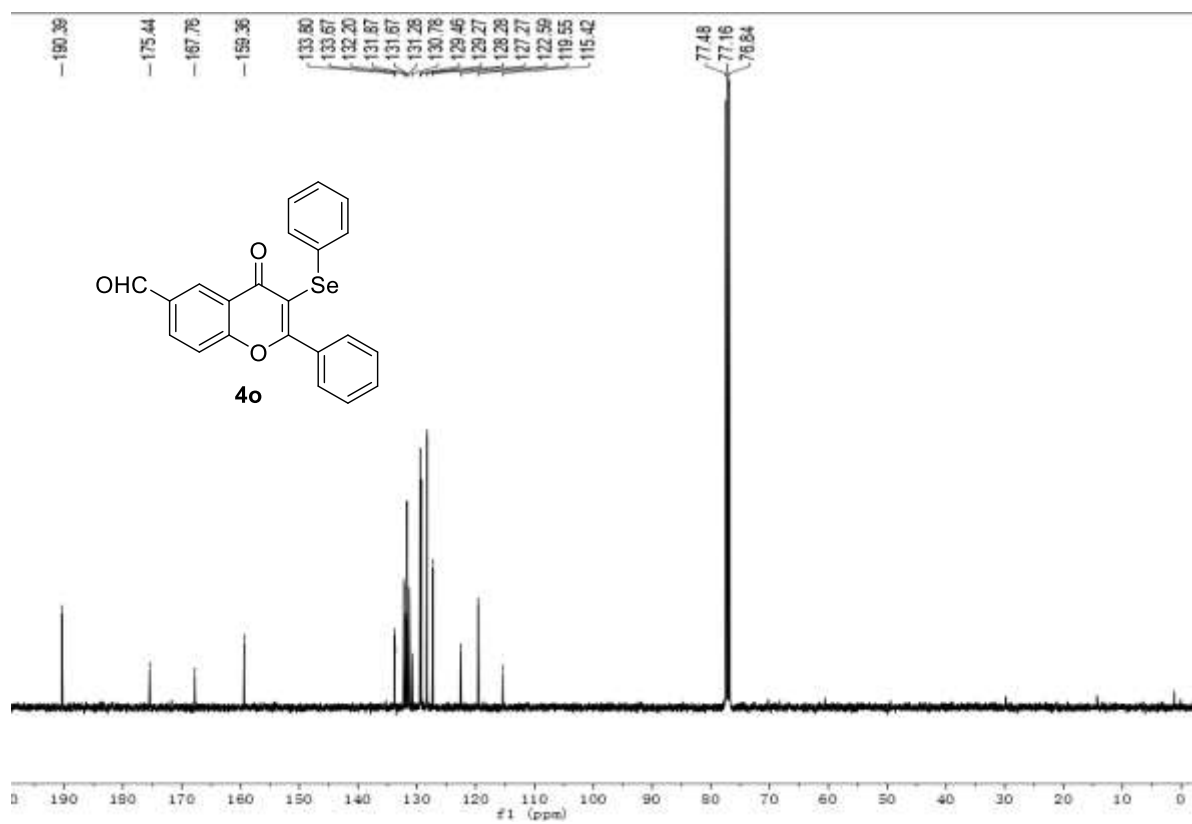
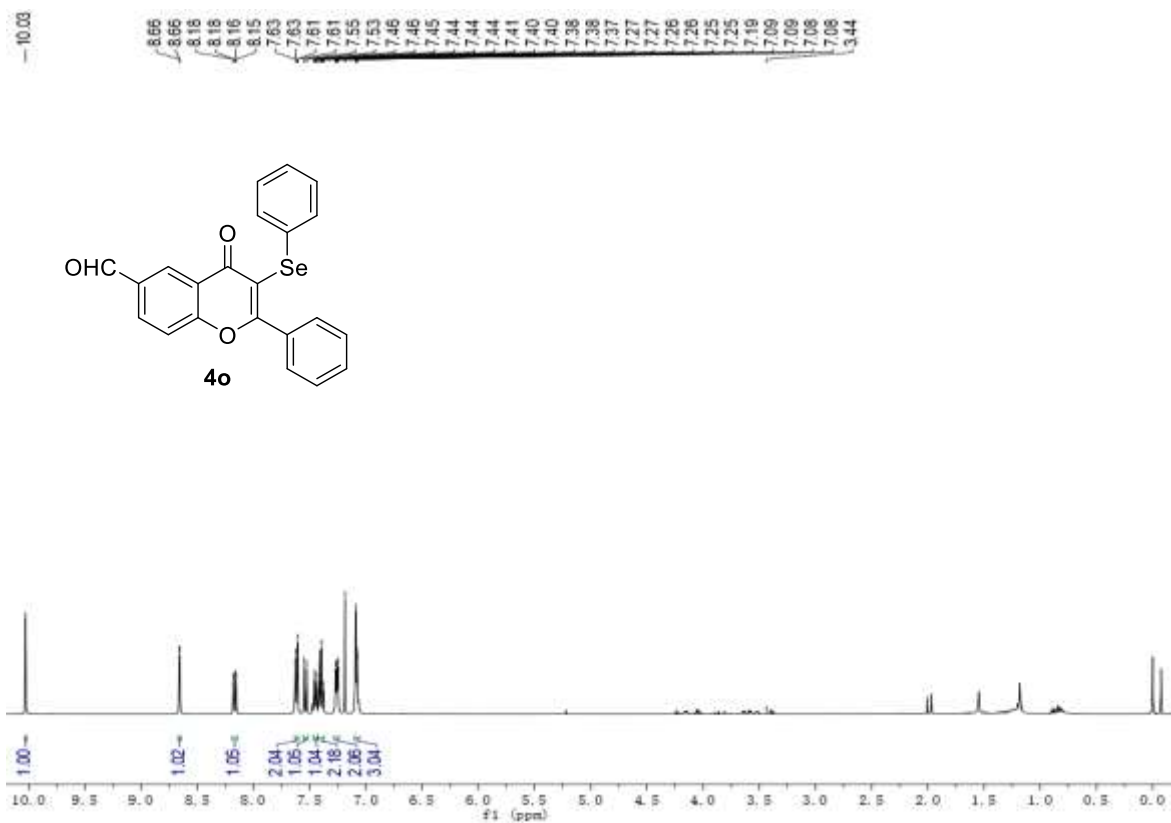


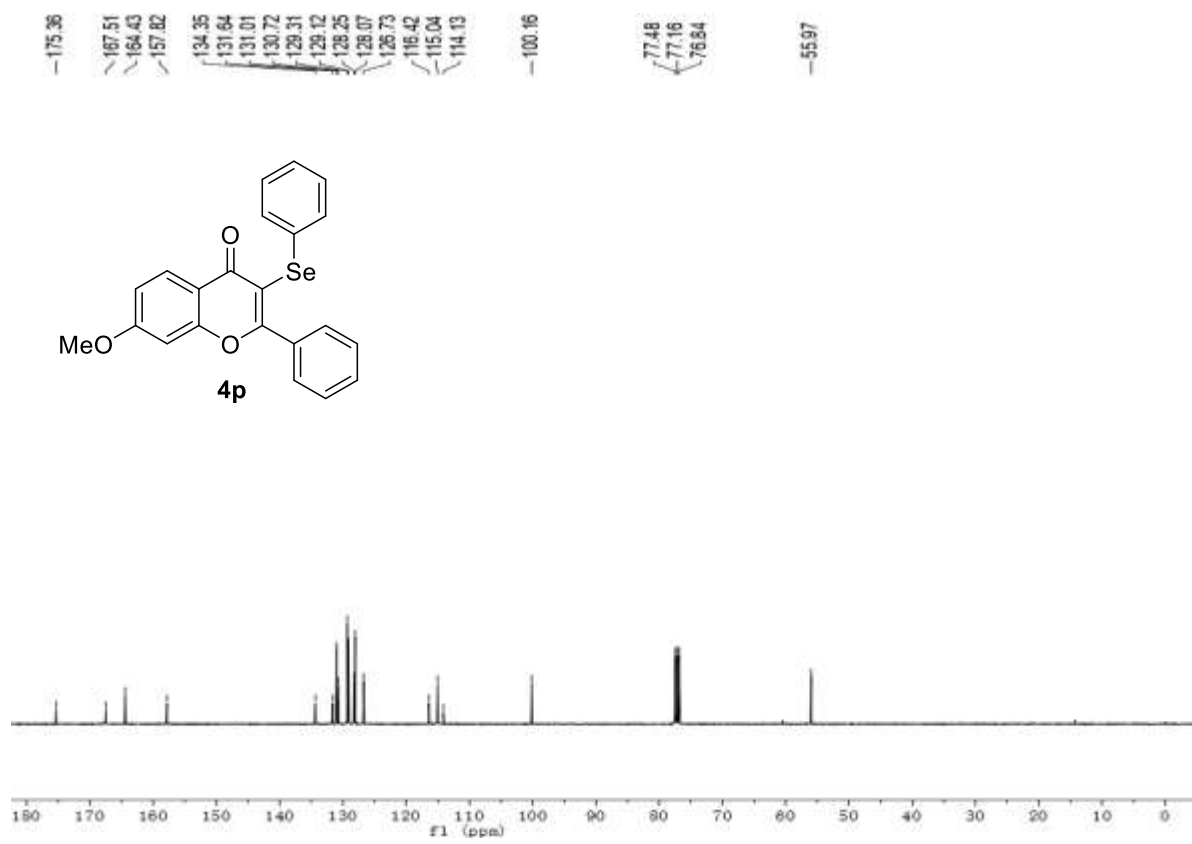
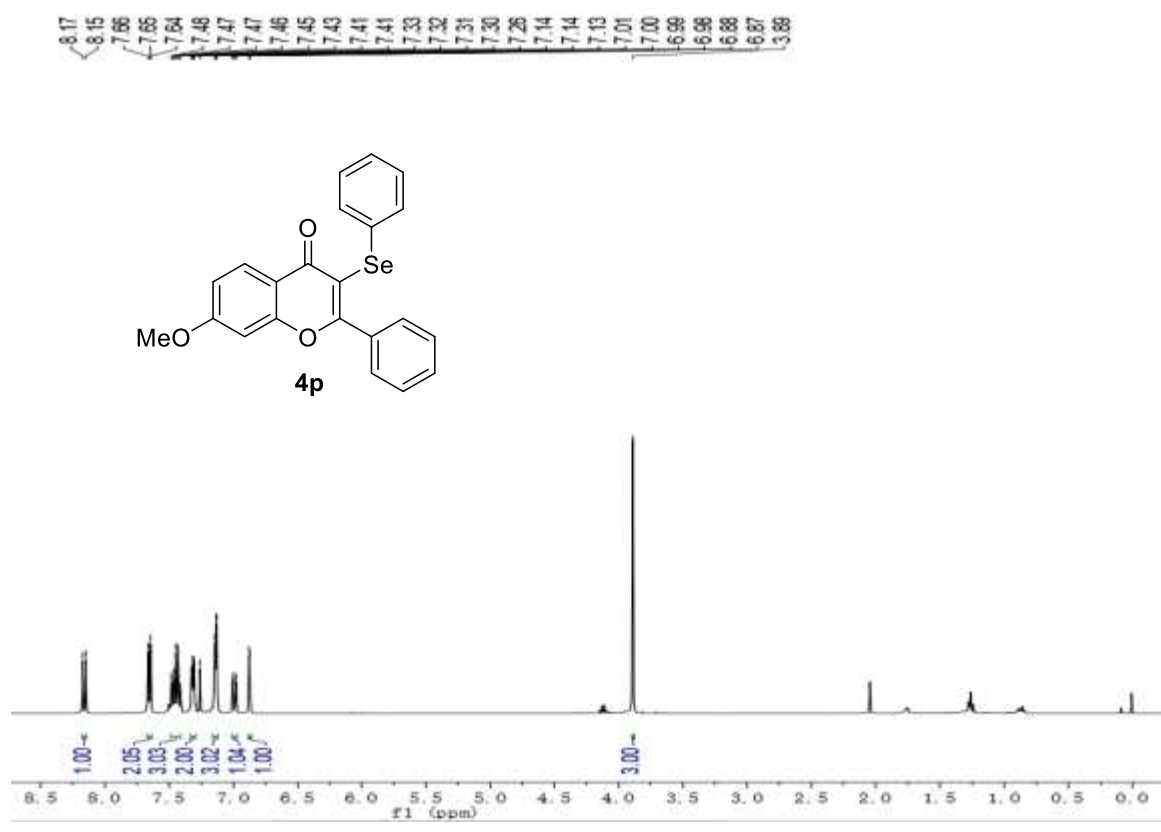
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7.49  
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7.14  
7.13

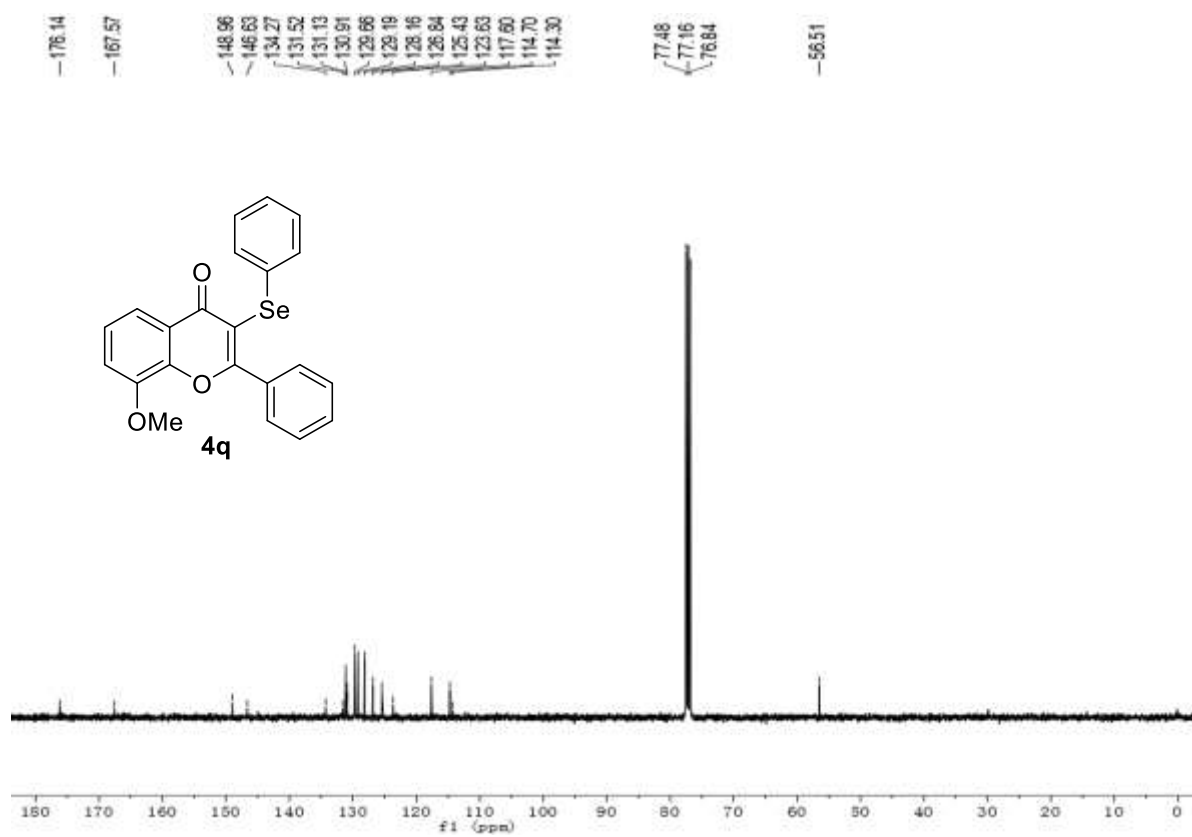
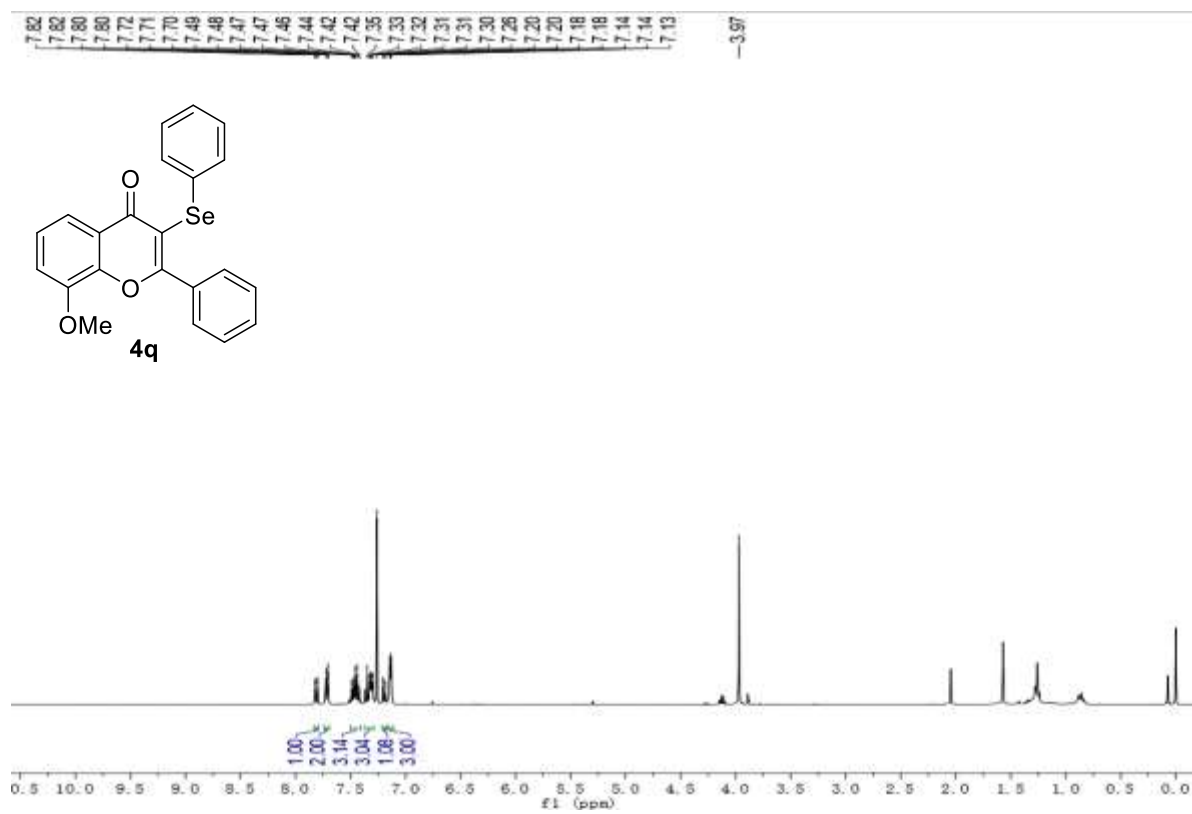


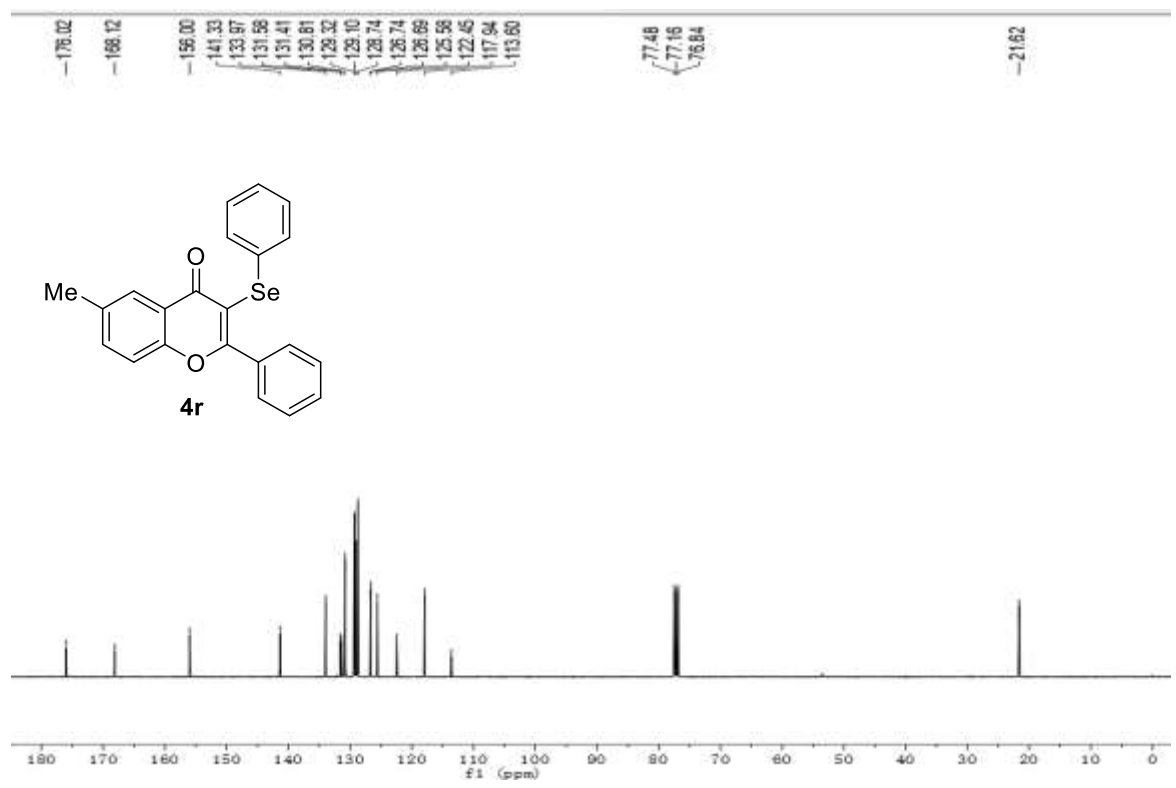
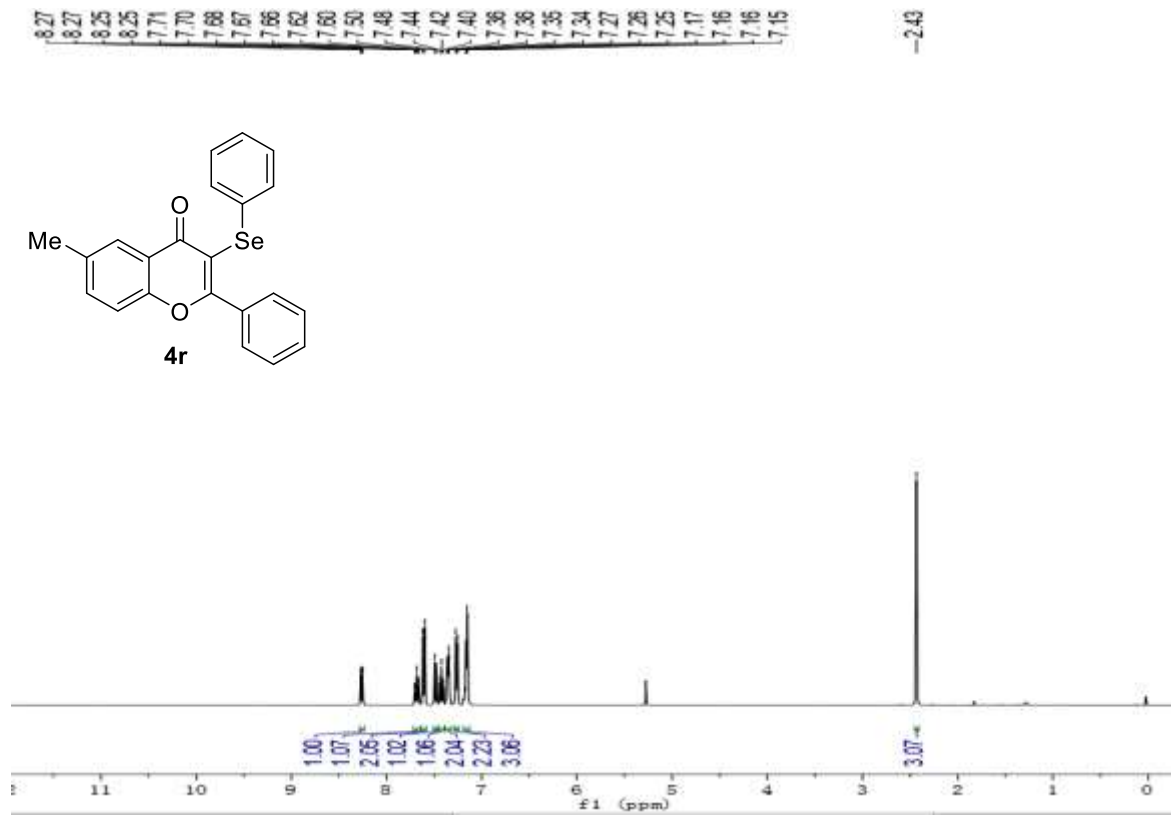
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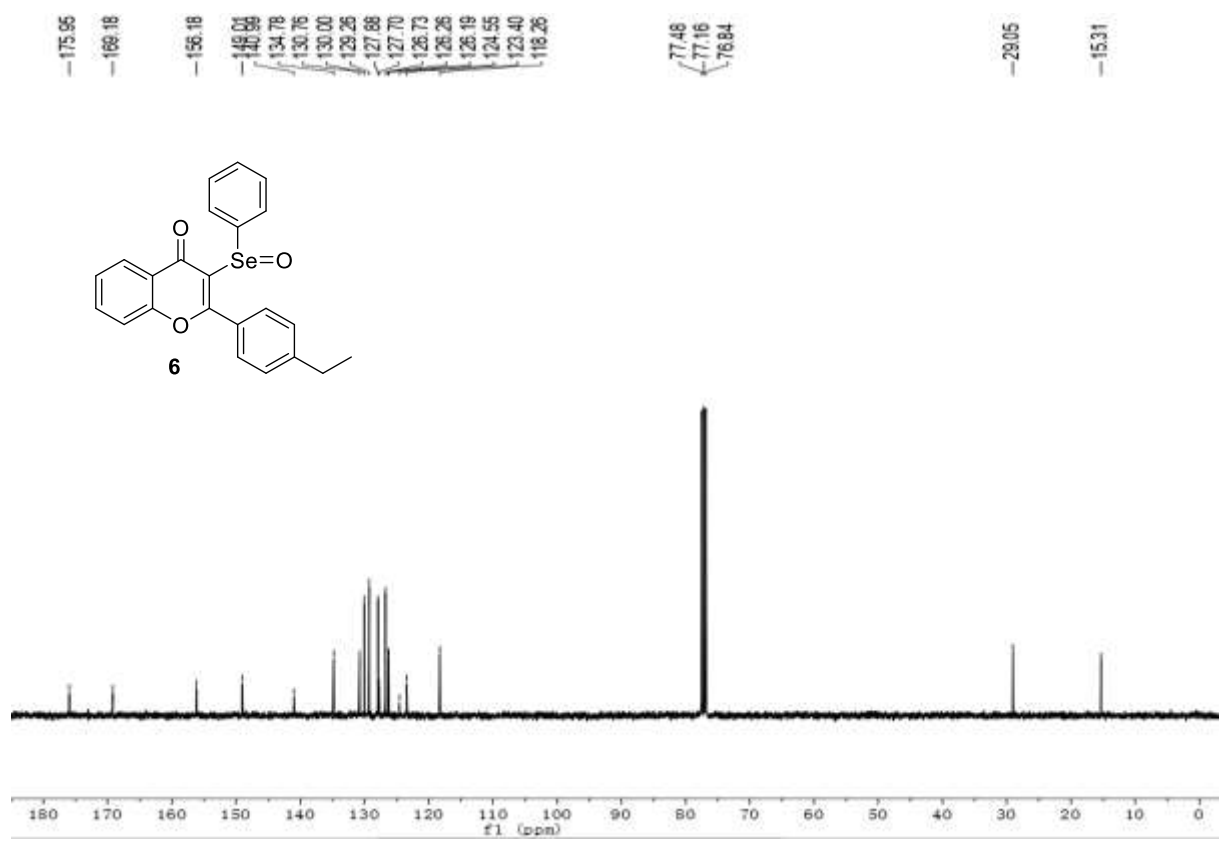
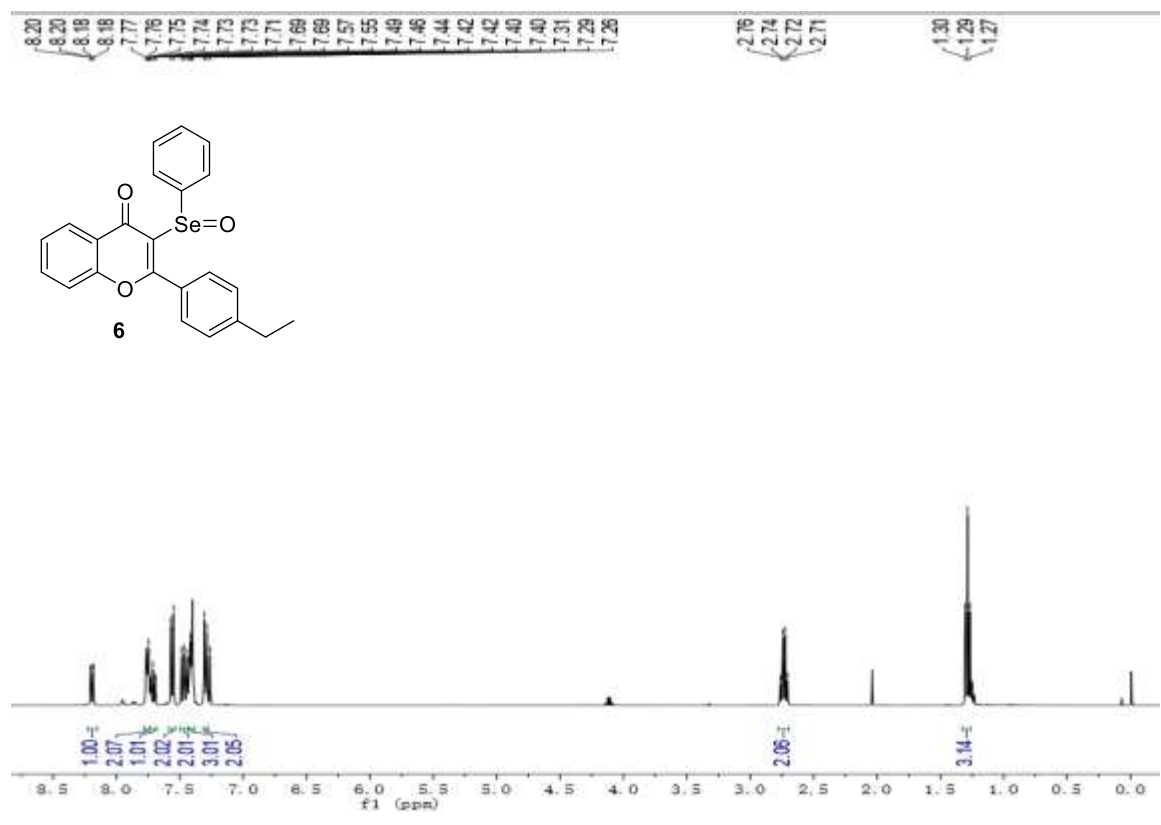














Copy of  $^{19}\text{F}$  NMR spectrum for the intermediate I-3

