

## Supplementary Material

### Synthesis, acaricidal activities and docking study of novel acrylonitrile derivatives

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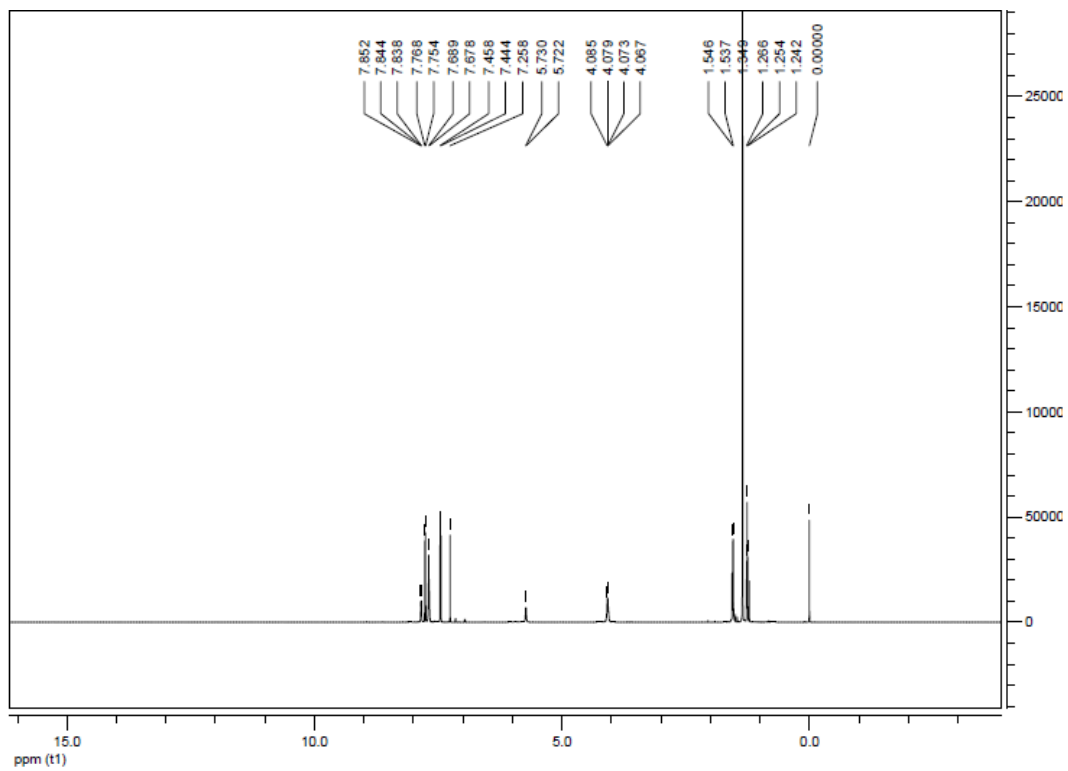
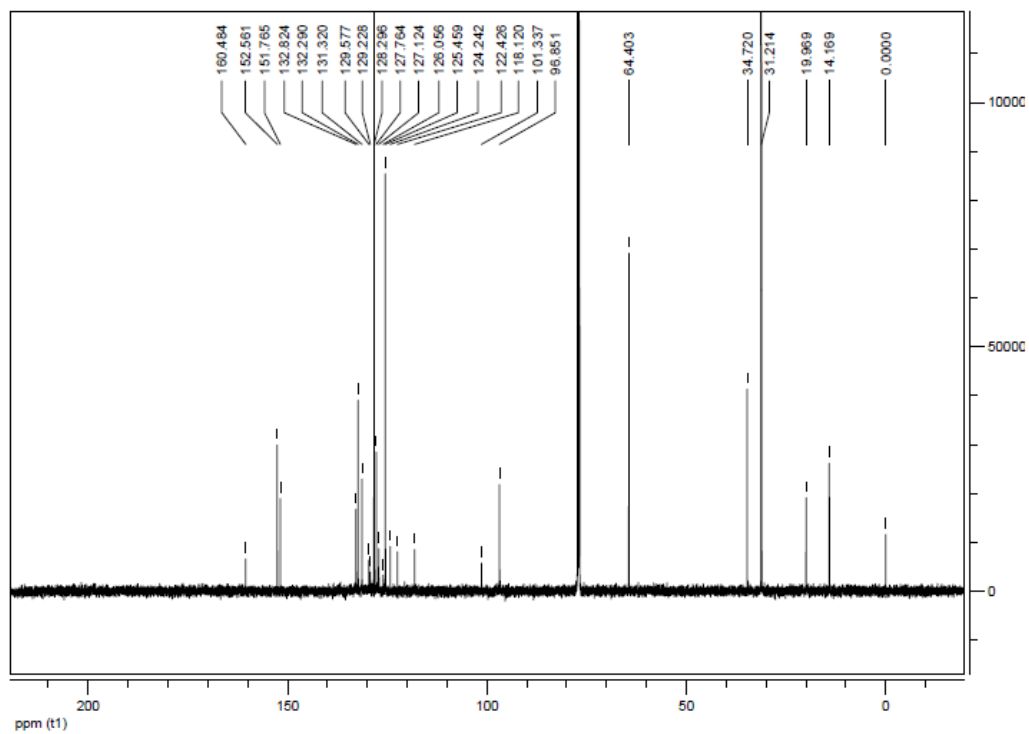
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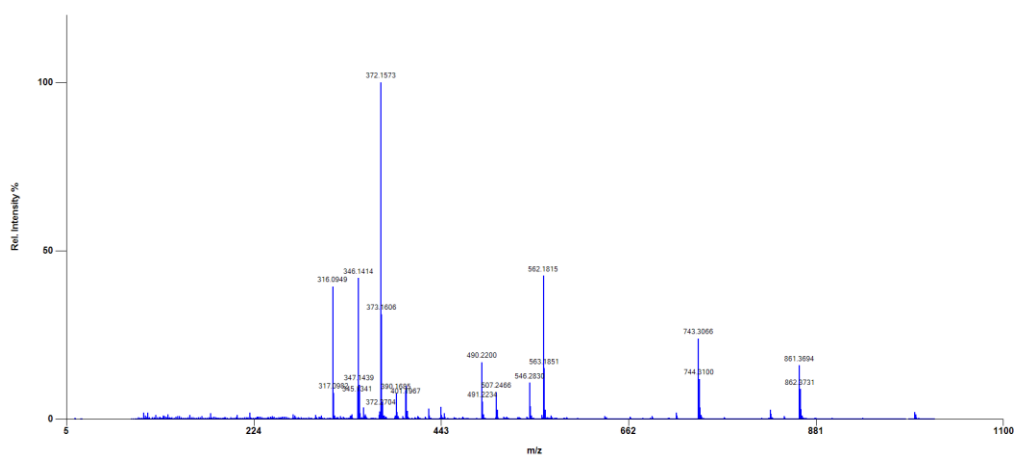
*Email: [xhliu@zjut.edu.cn](mailto:xhliu@zjut.edu.cn); [xutianming@sinochem.com](mailto:xutianming@sinochem.com)*

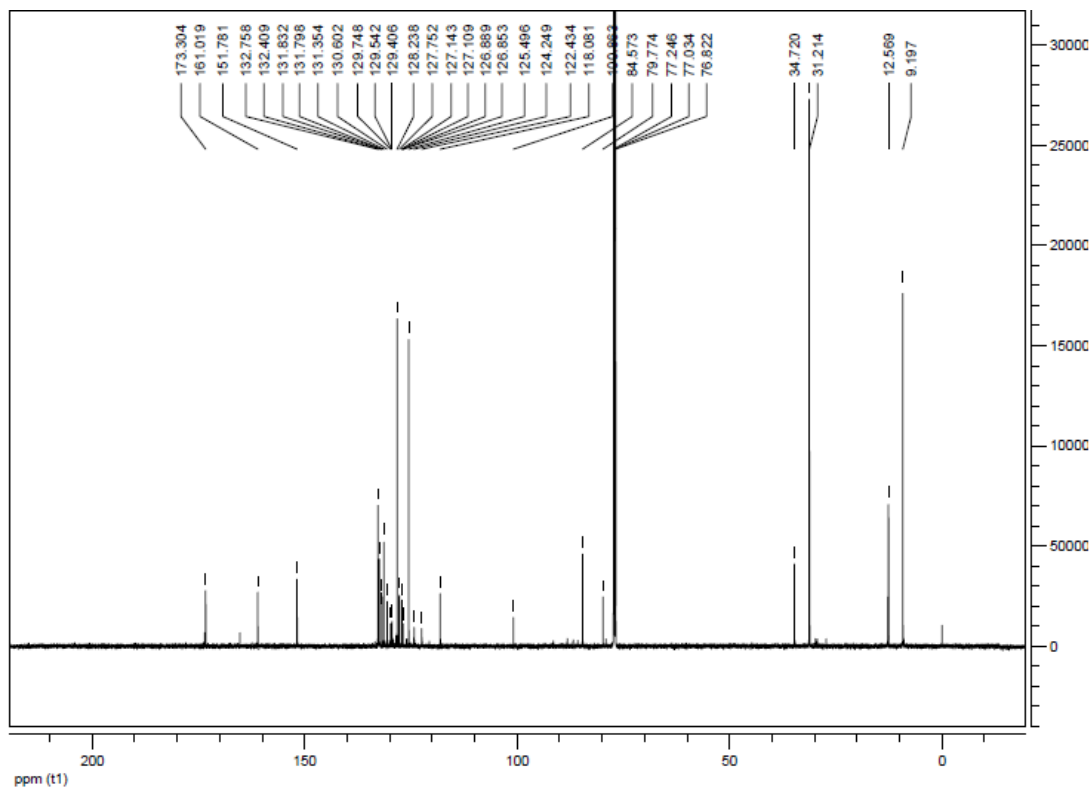
#### Table of contents

- |   |     |
|---|-----|
| 1. <sup>1</sup> H NMR, <sup>13</sup> C NMR and HRMS spectra for compounds <b>2a-k</b> | S2  |
| 2. <sup>1</sup> H NMR for compound <b>1</b>   | S18 |

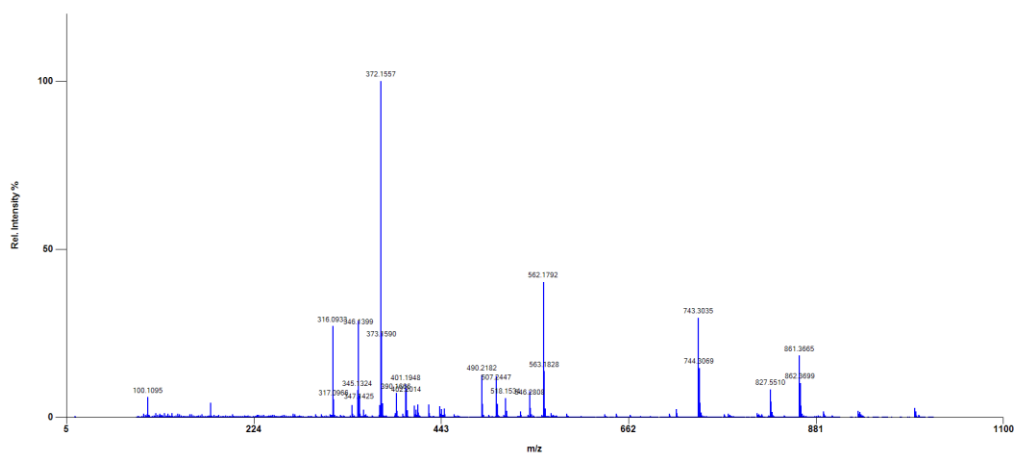
<sup>1</sup>H NMR of 2a<sup>13</sup>C NMR of 2a

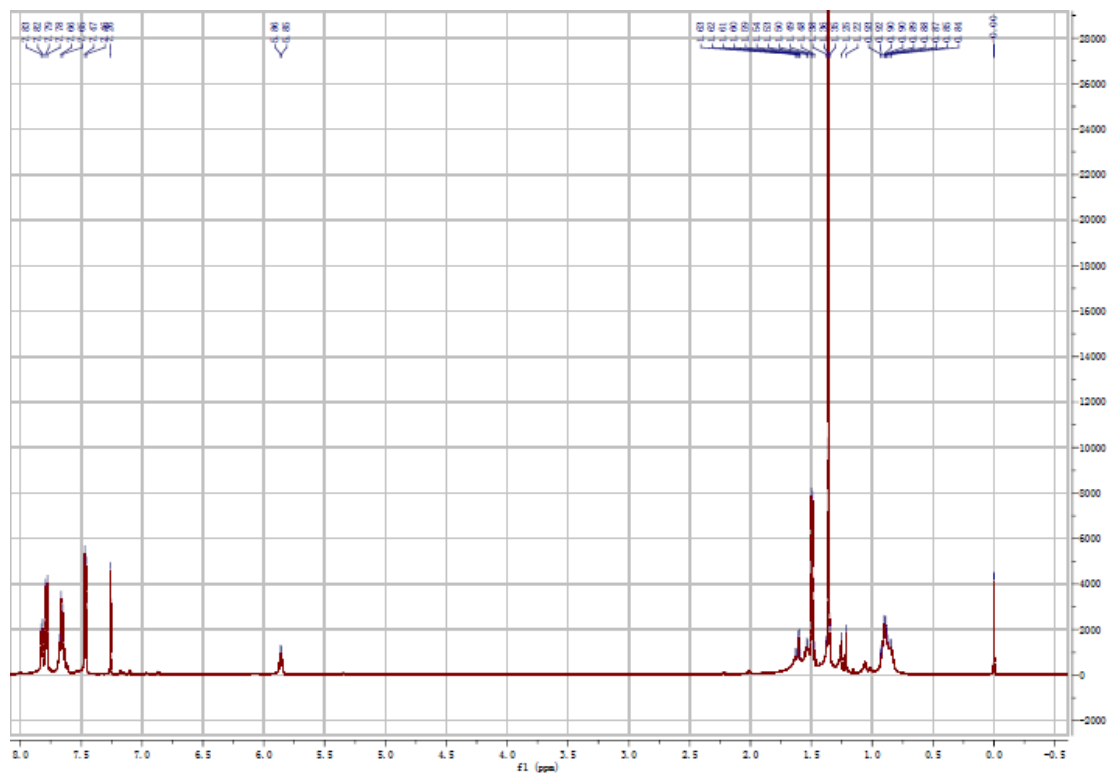
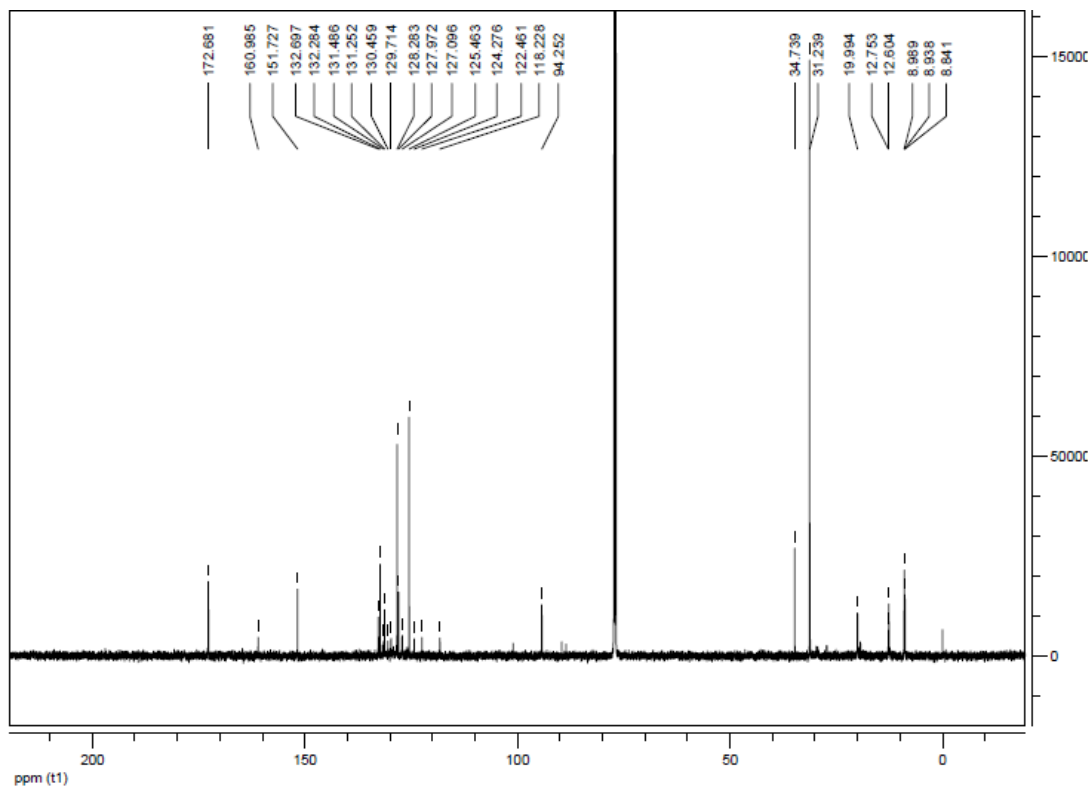
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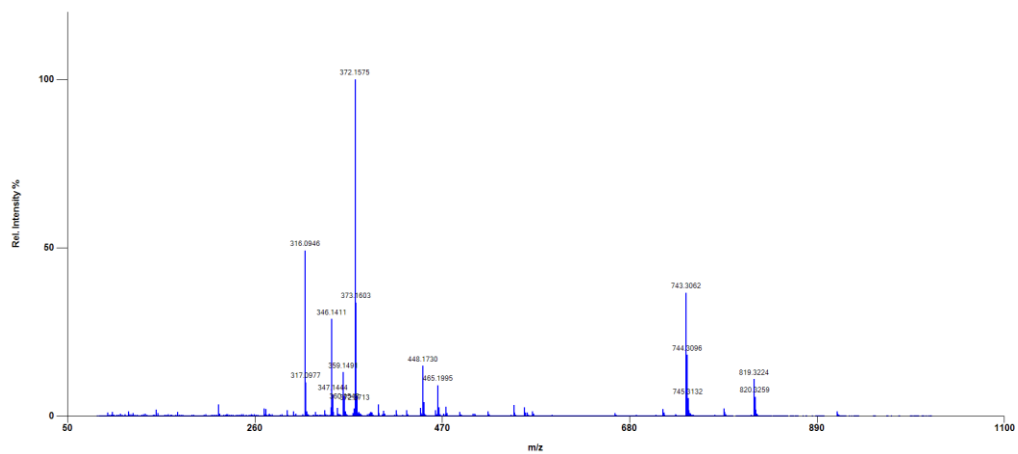


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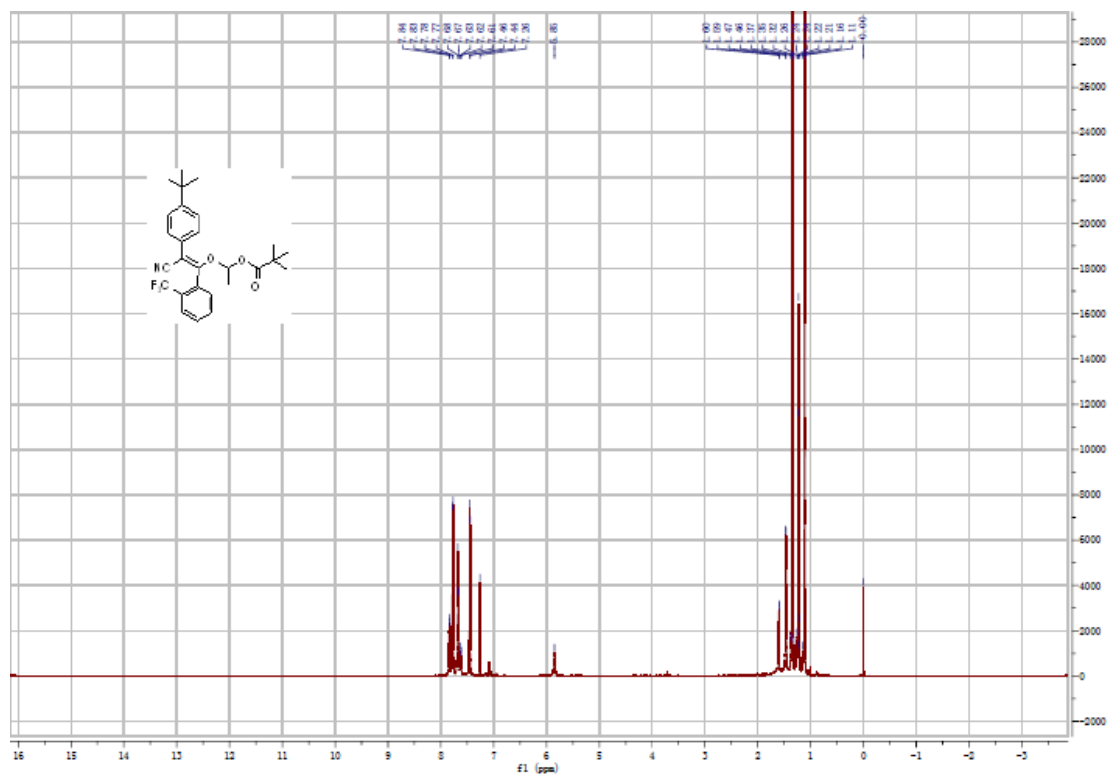


 $^1\text{H}$  NMR of 2c $^{13}\text{C}$  NMR of 2c

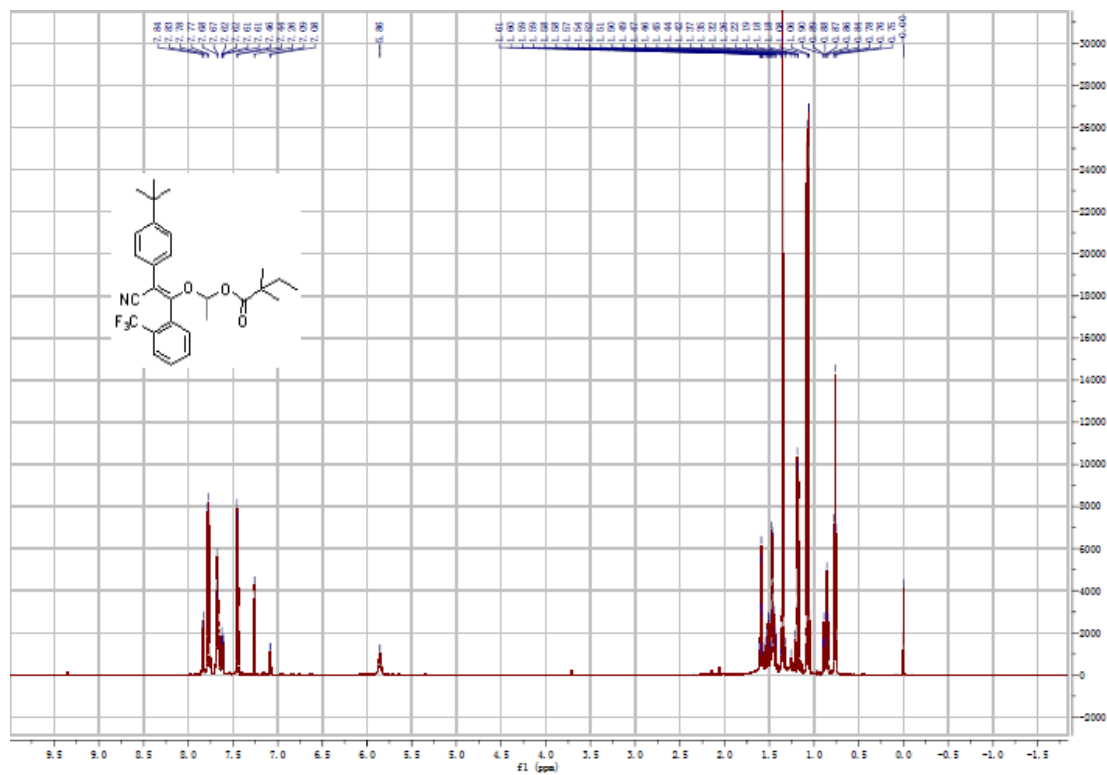
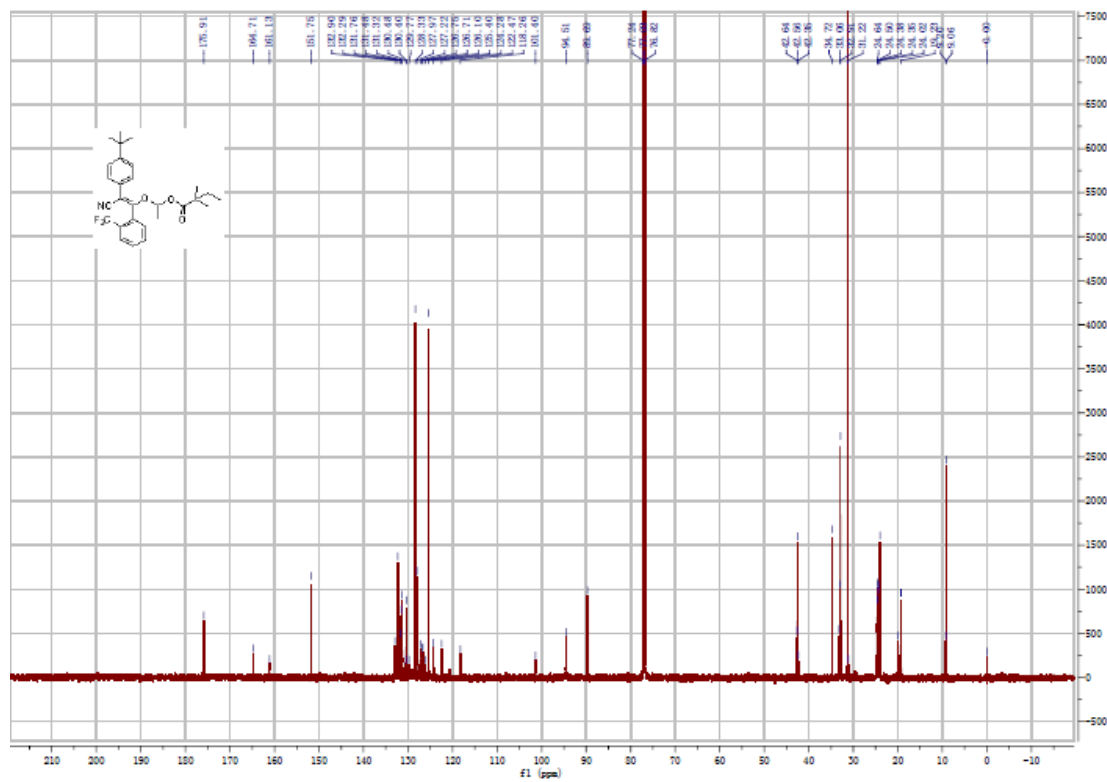
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HRMS of 2c

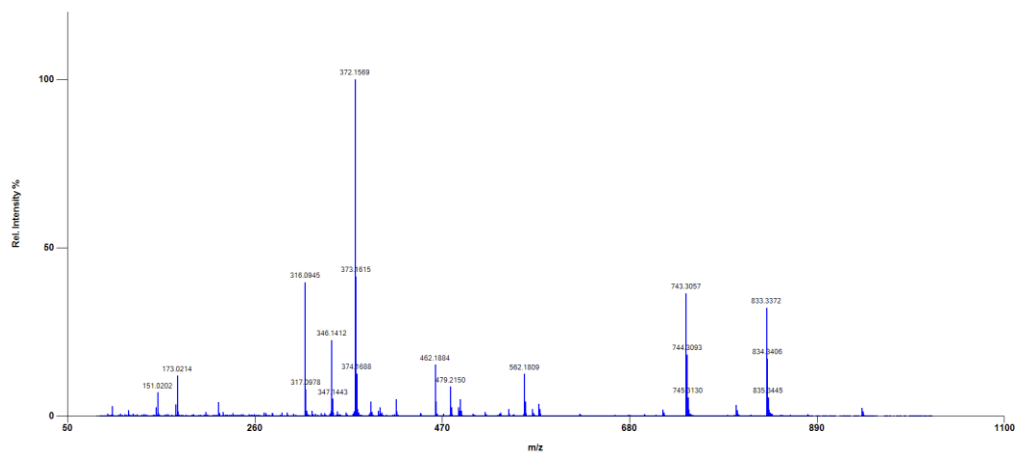
<sup>1</sup>H NMR of 2d



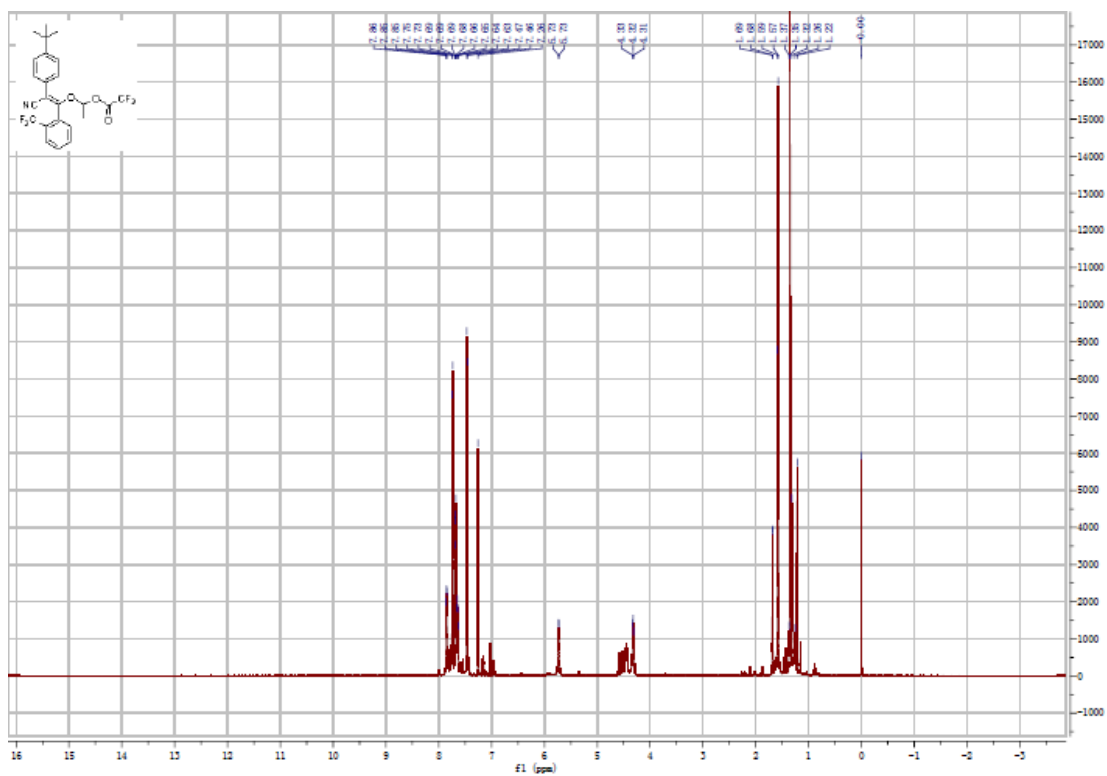
<sup>1</sup>H NMR of 2e<sup>13</sup>C NMR of 2e

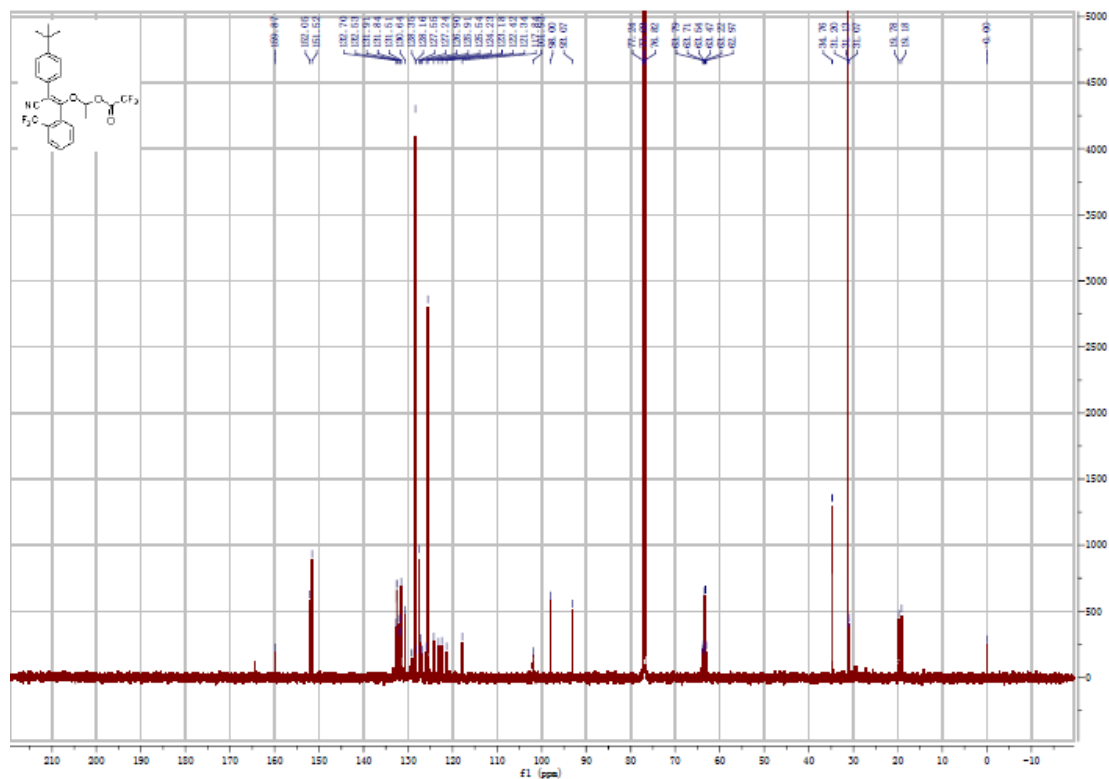


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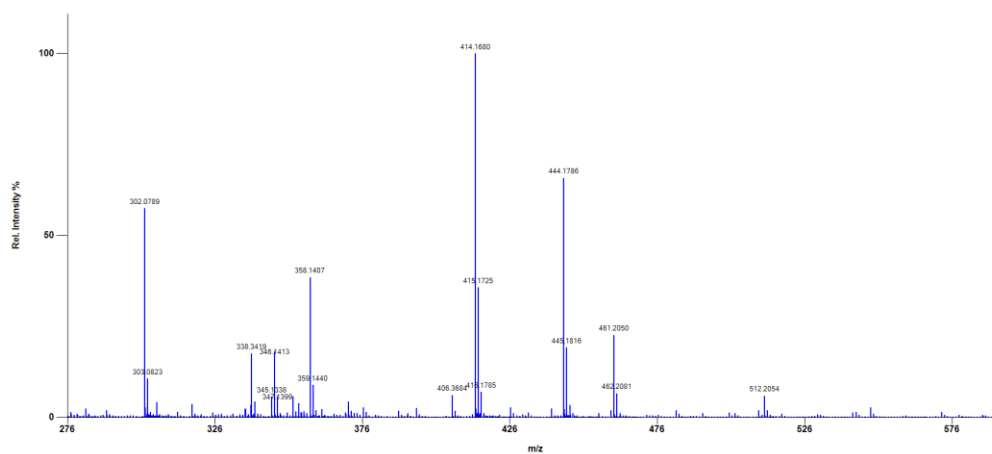


HRMS of 2e

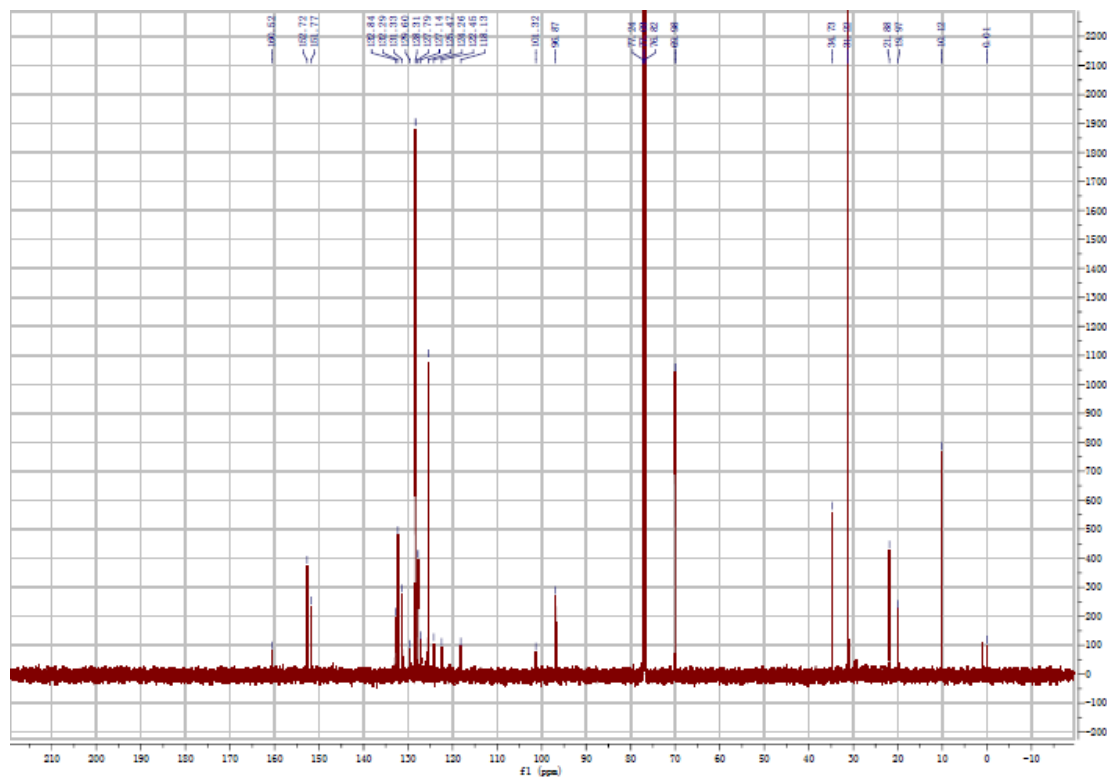
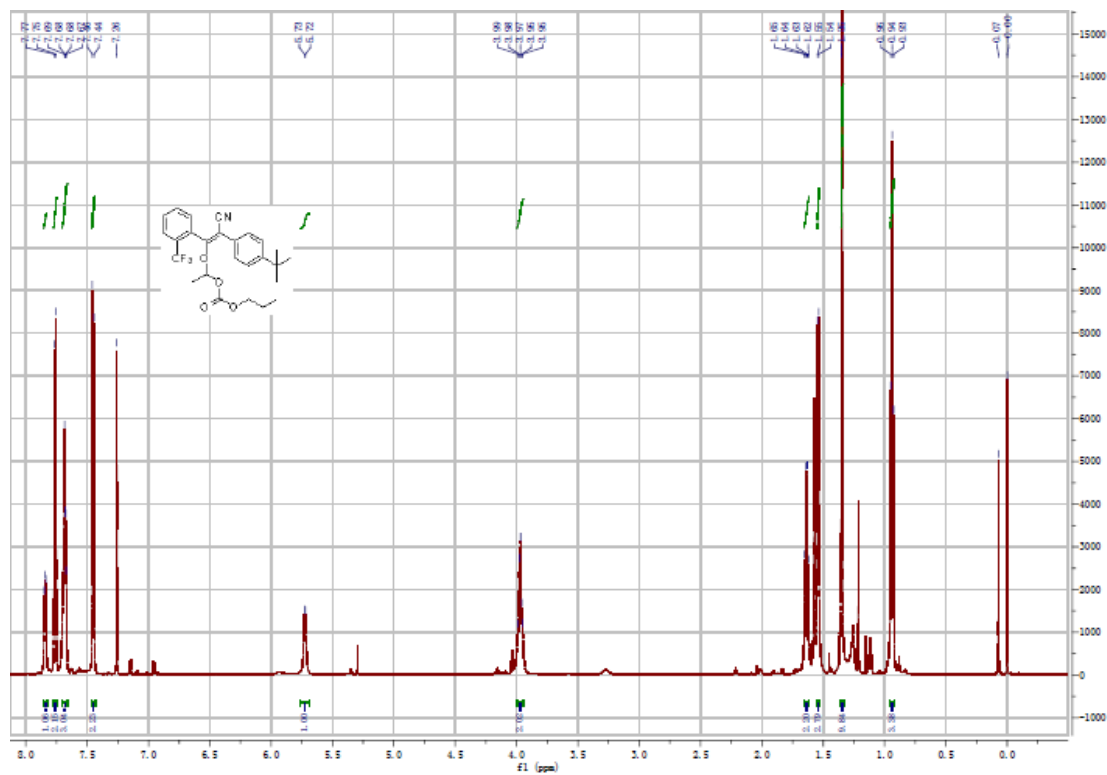
<sup>1</sup>H NMR of 2f

 $^{13}\text{C}$  NMR of 2f

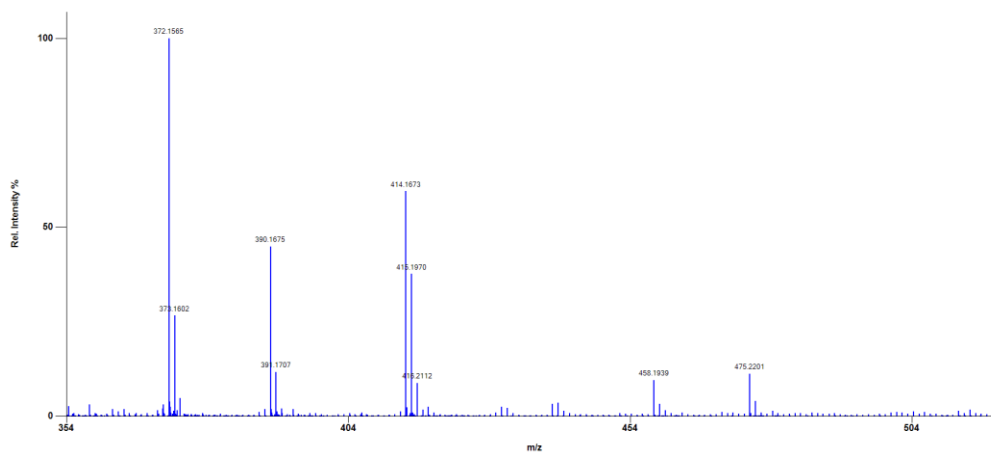
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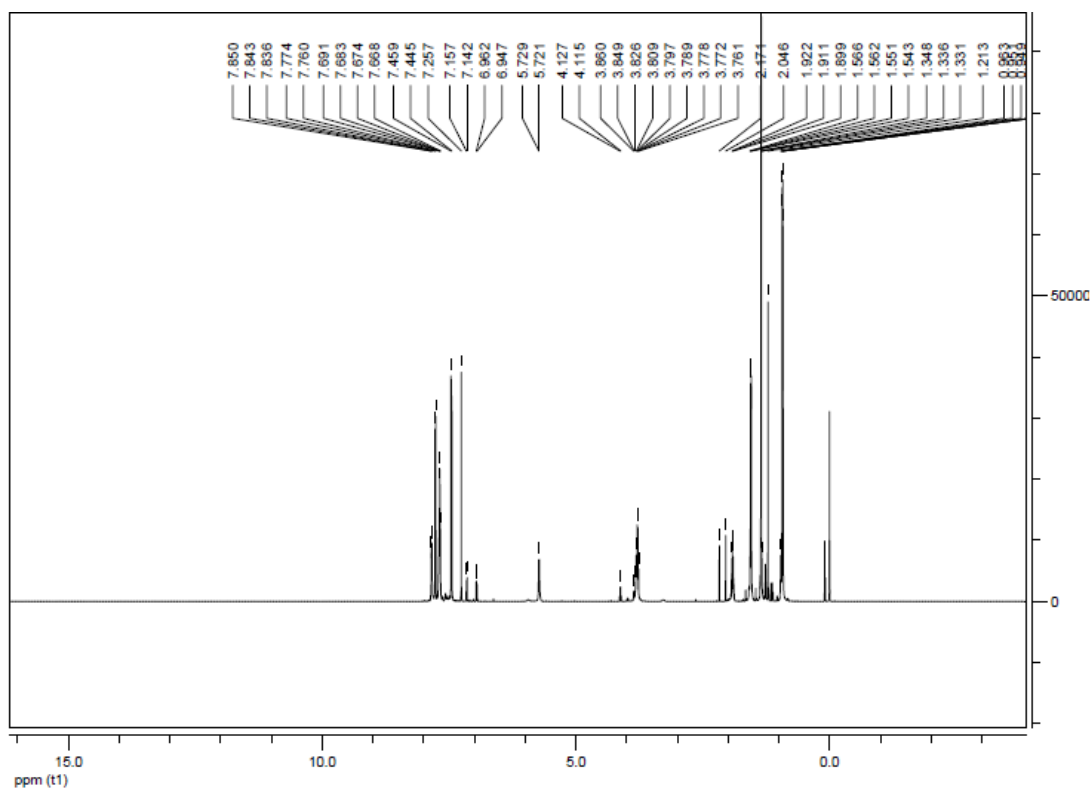
HRMS of 2f

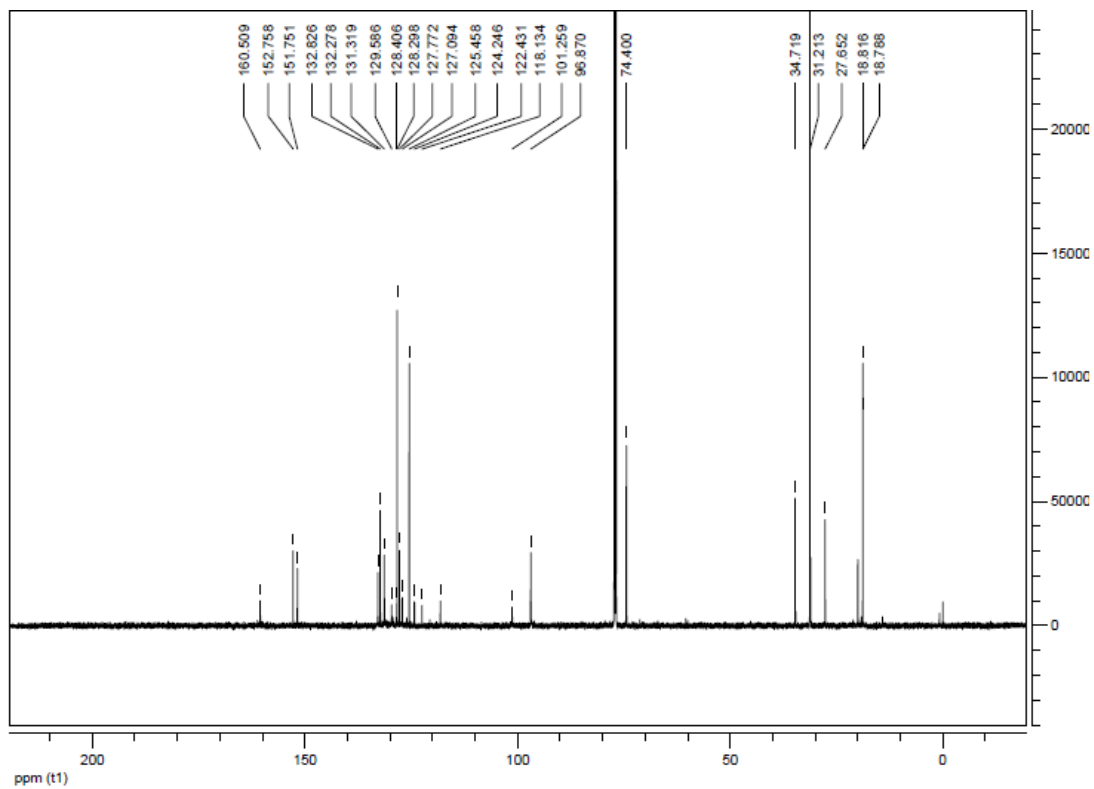


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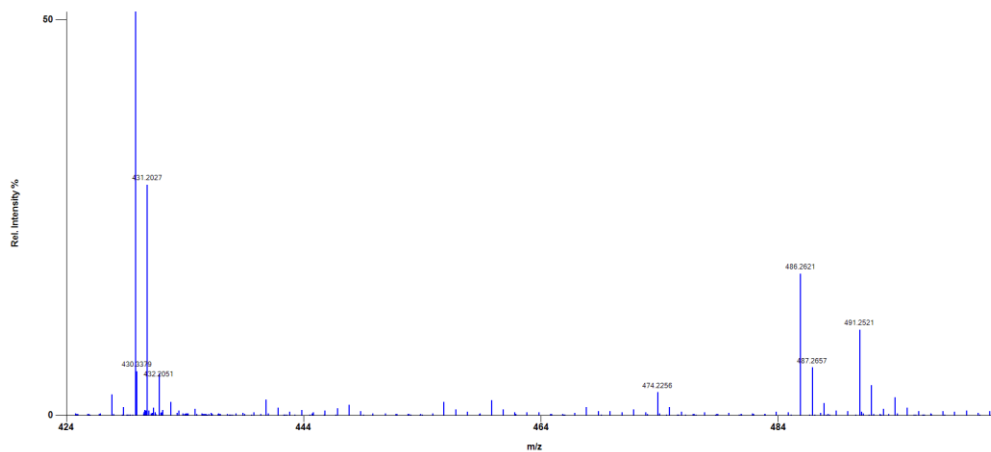


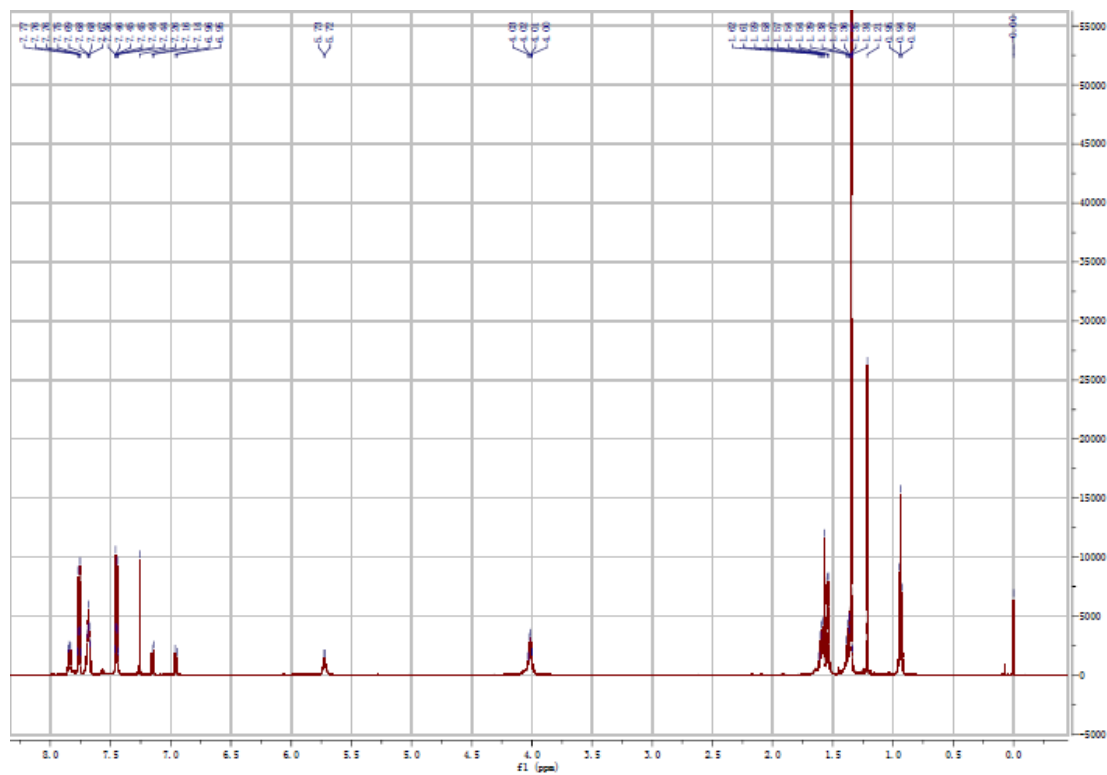
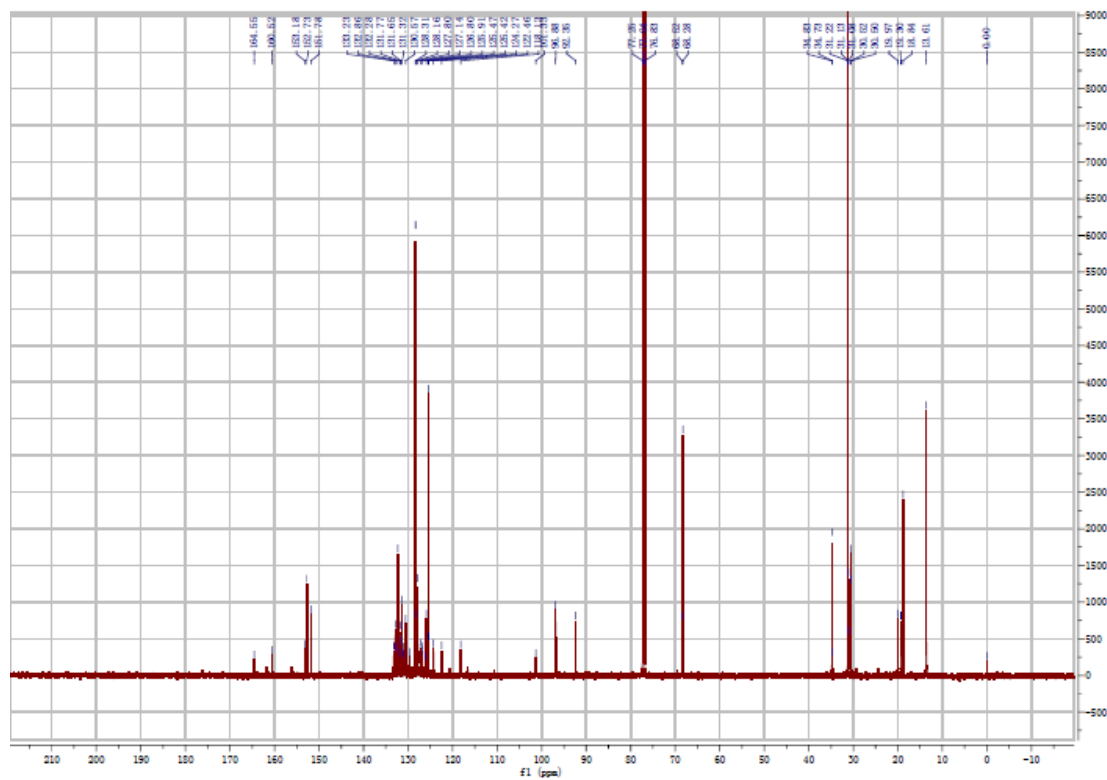
HRMS of 2g

<sup>1</sup>H NMR of 2h

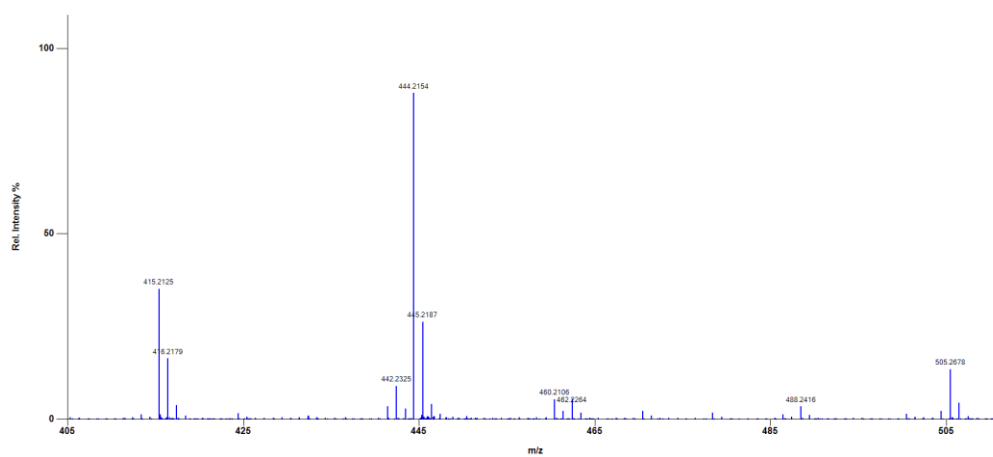


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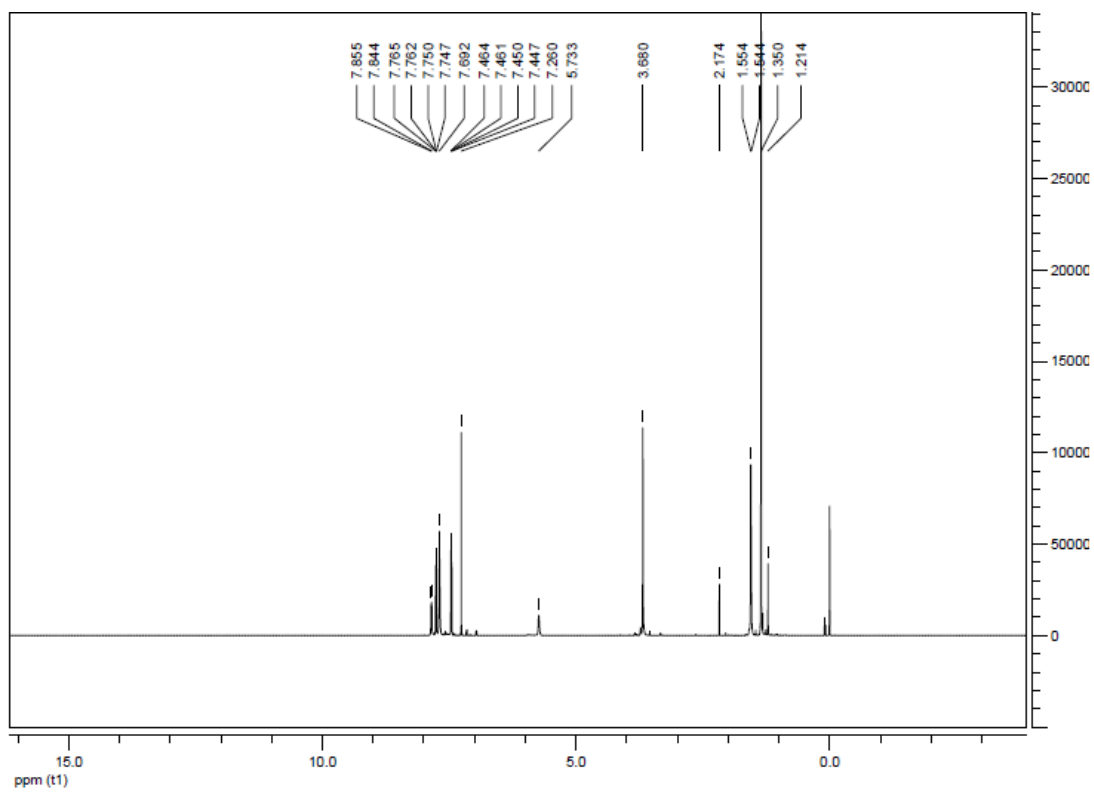


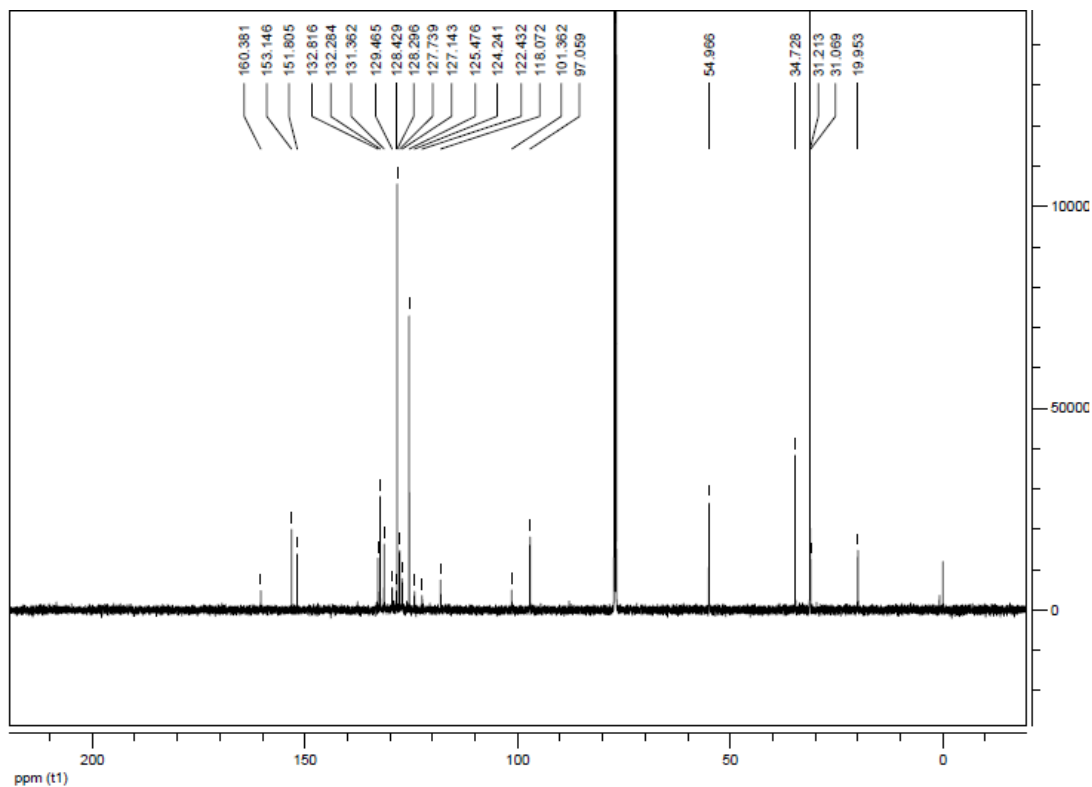
<sup>1</sup>H NMR of 2i<sup>13</sup>C NMR of 2i

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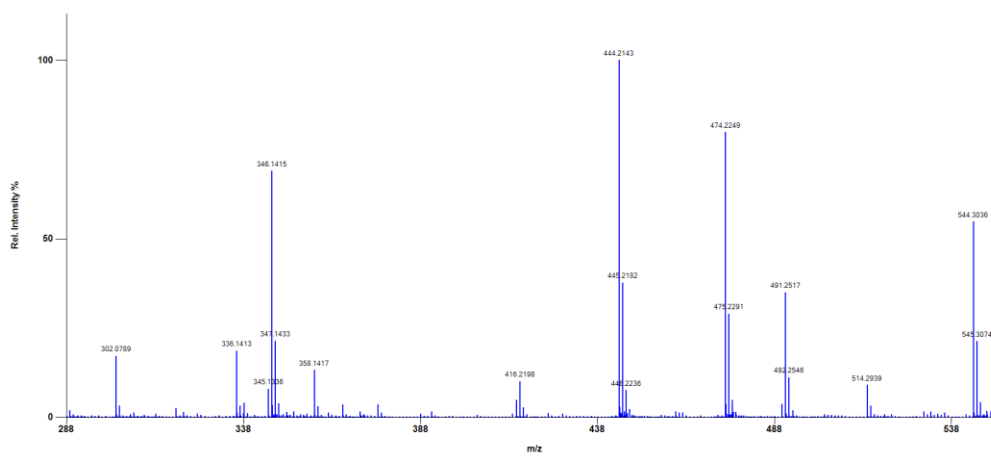


HRMS of 2i

<sup>1</sup>H NMR of 2j

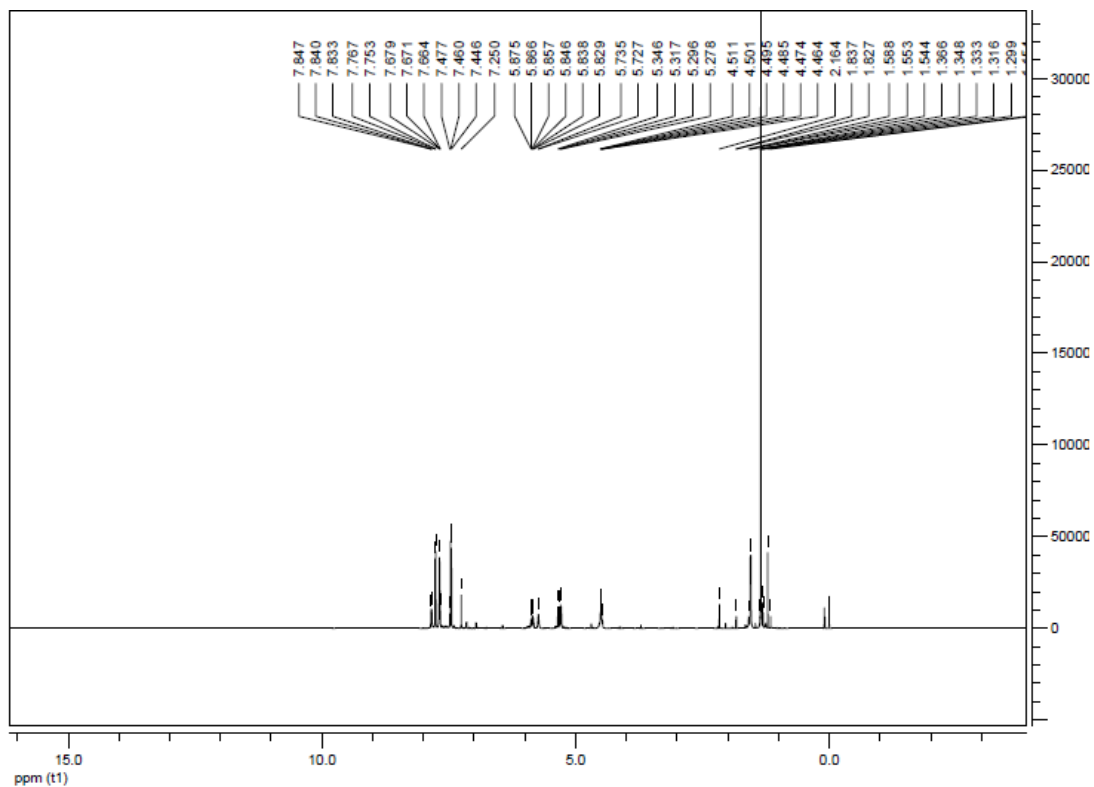
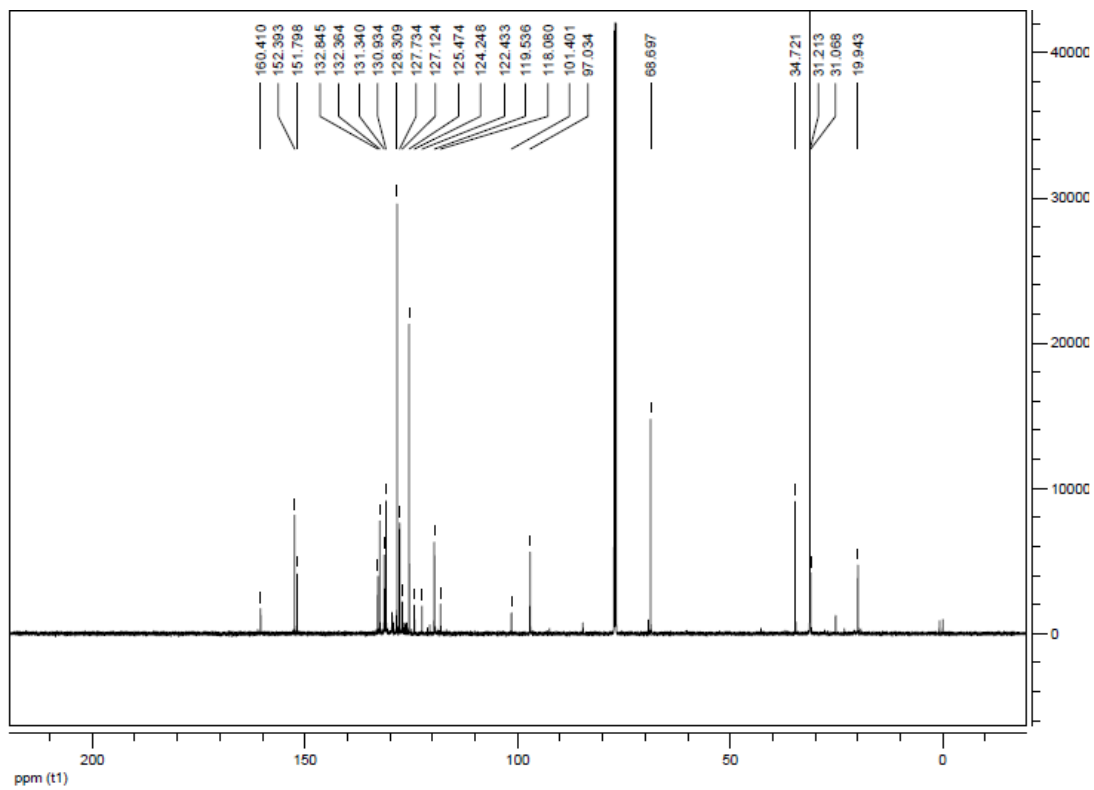
 $^{13}\text{C}$  NMR of 2j

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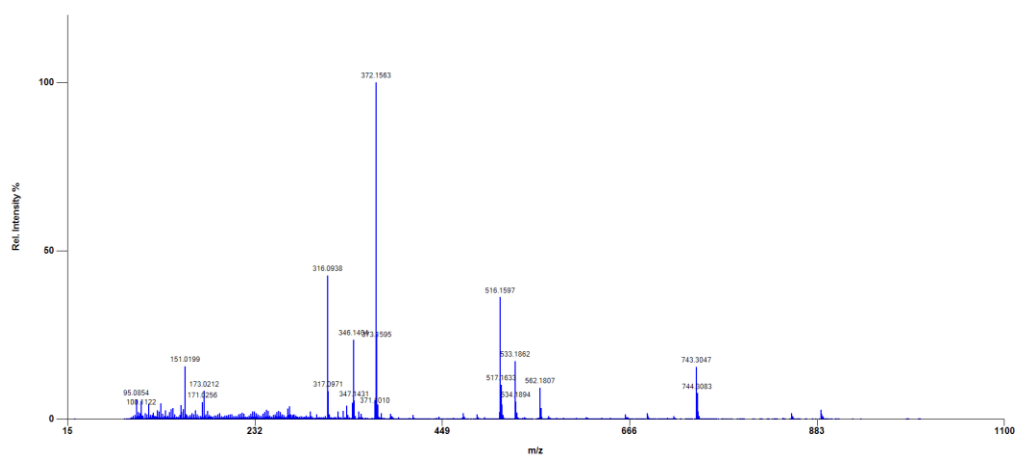


HRMS of 2j

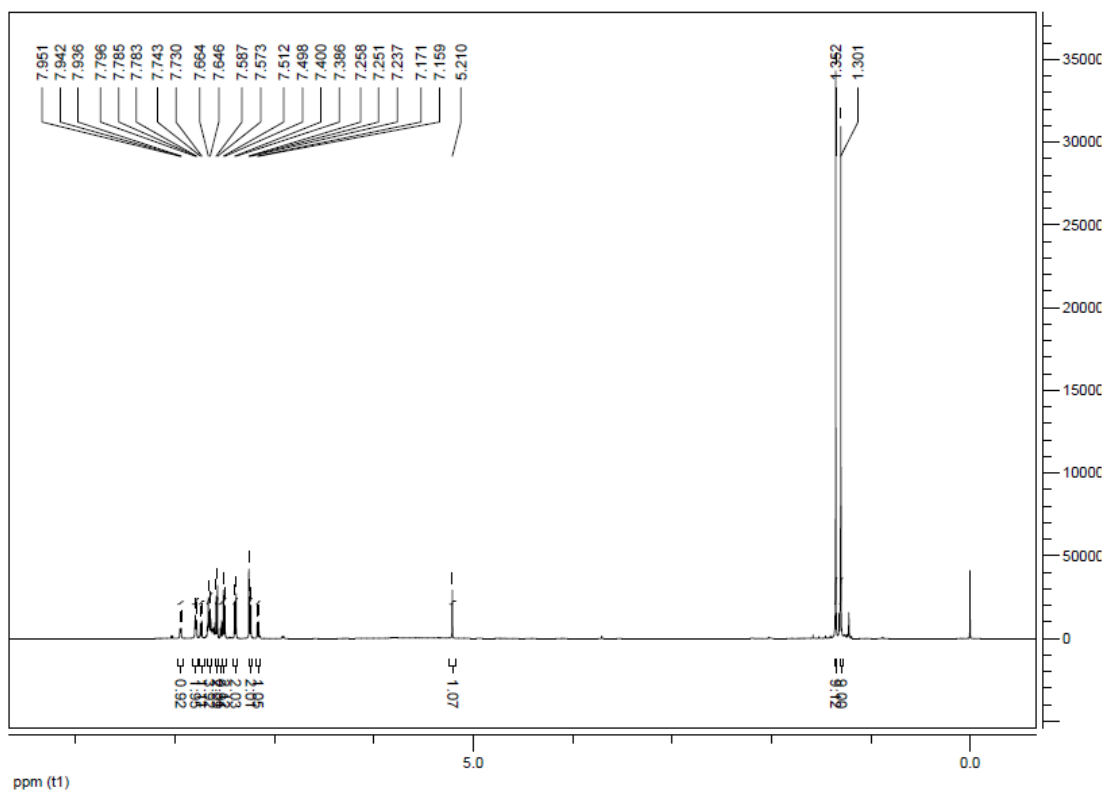


<sup>1</sup>H NMR of 2k<sup>13</sup>C NMR of 2k

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HRMS of 2k

The  $^1\text{H}$  NMR of compound 1