

## **A novel approach to obtain 3-amino-1-benzothiophene-2-carbonitriles**

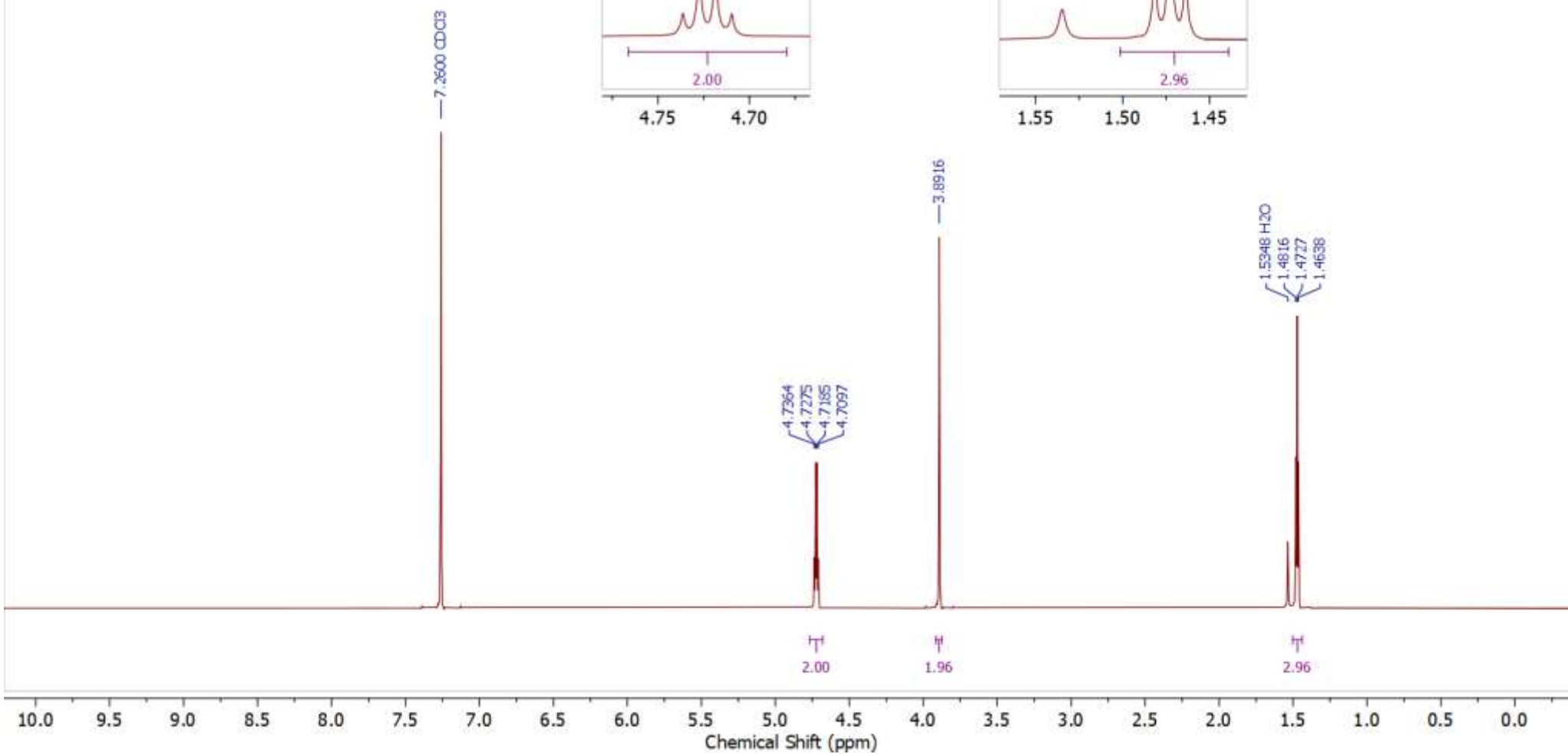
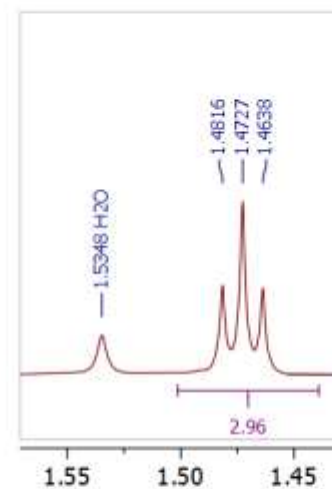
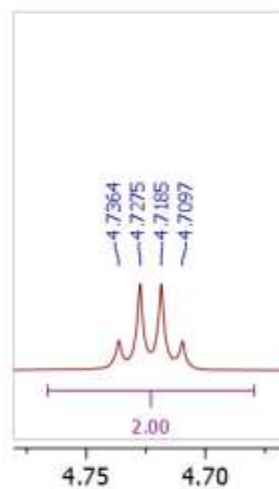
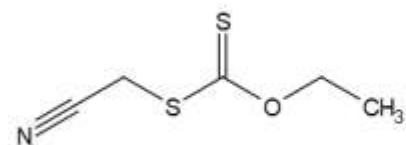
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Alexander Yu. Smirnov<sup>1,2</sup>, Mikhail S. Baranov<sup>1,2</sup>**

<sup>1</sup> *Shemyakin-Ovchinnikov Institute of Bioorganic Chemistry, Russian Academy of Sciences,  
16/10 Miklukho-Maklaya St., Moscow 117997, Russia*

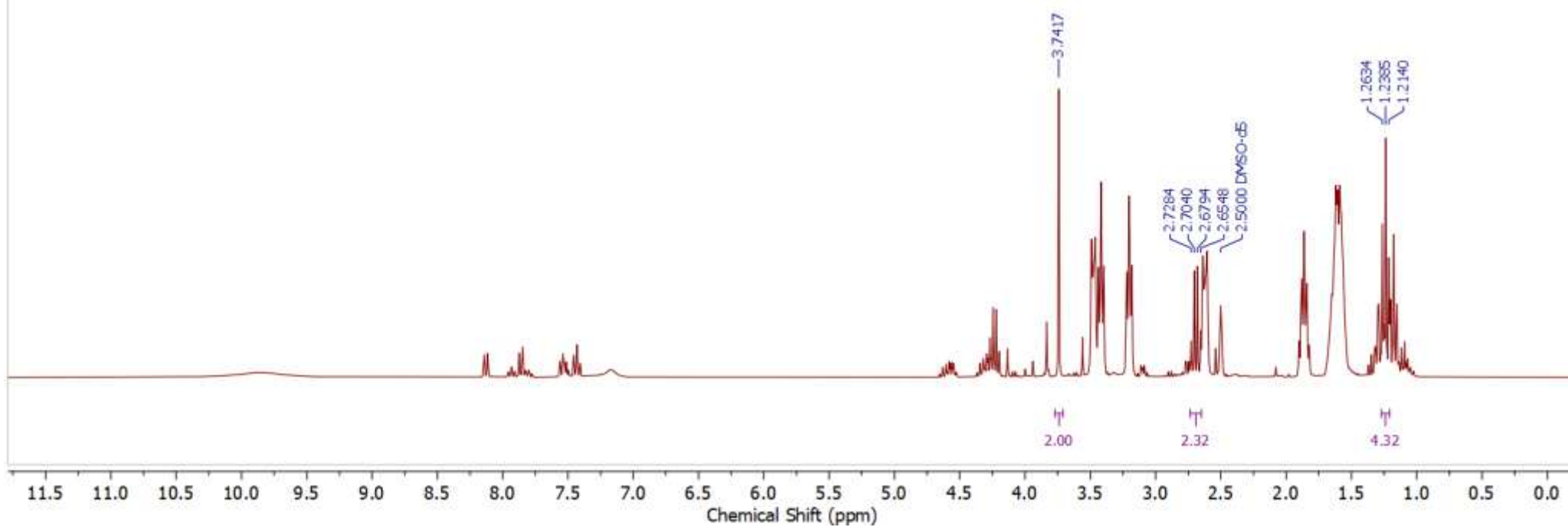
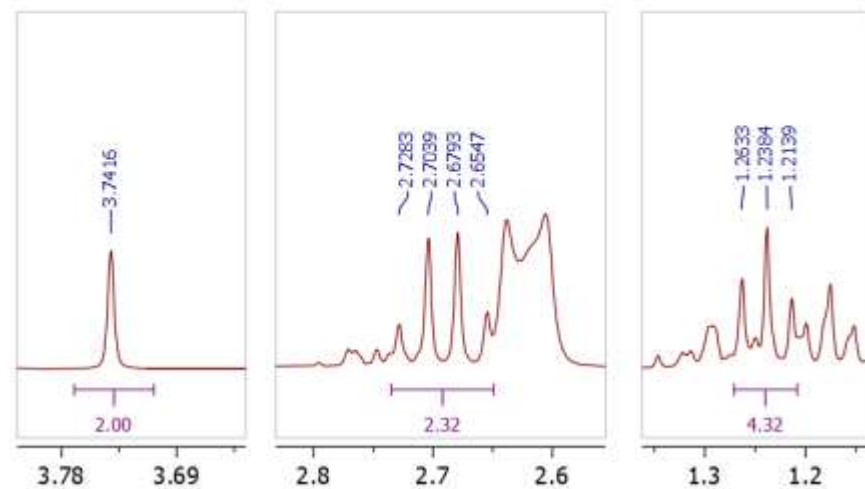
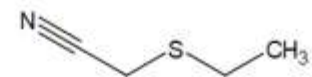
<sup>2</sup> *Pirogov Russian National Research Medical University,  
1 Ostrovityanova St, Moscow 117997, Russia; e-mail: alexmsu@yandex.ru*

**SUPPLEMENTARY INFORMATION**

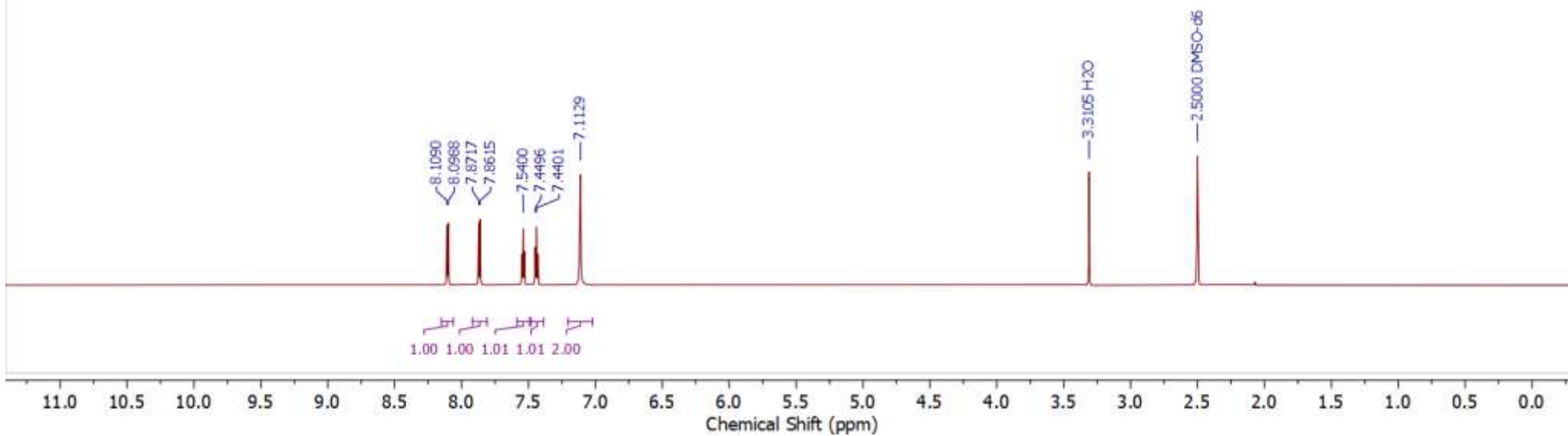
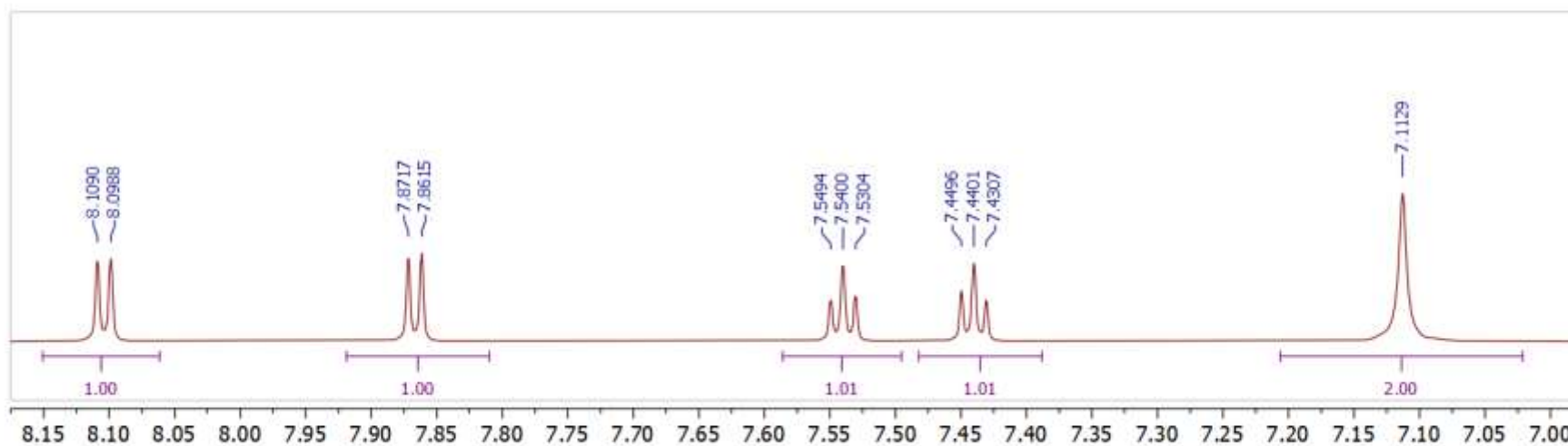
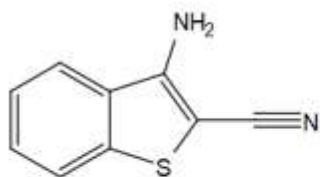
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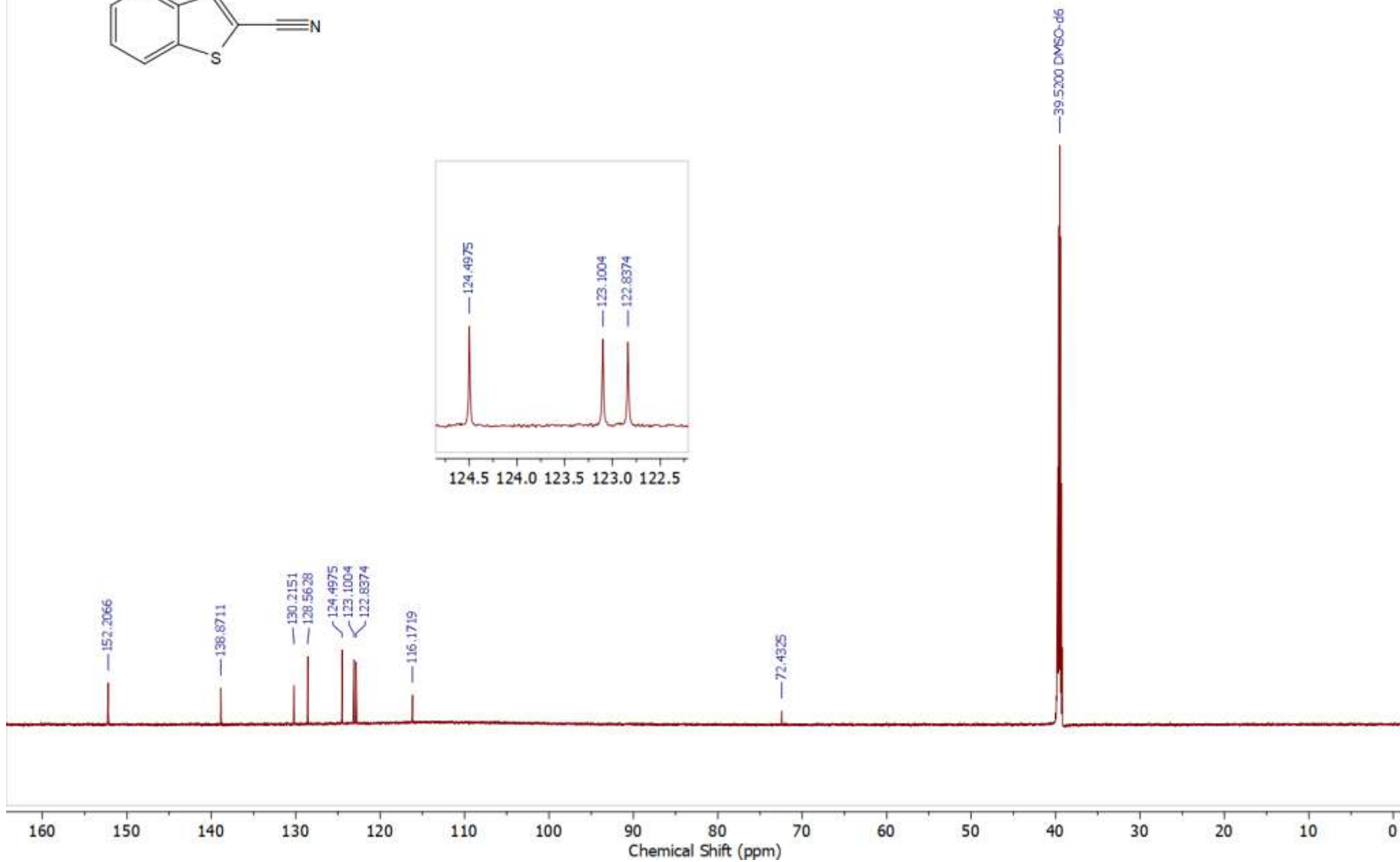
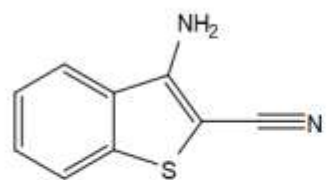
Reaction mixture #12  
after work-up



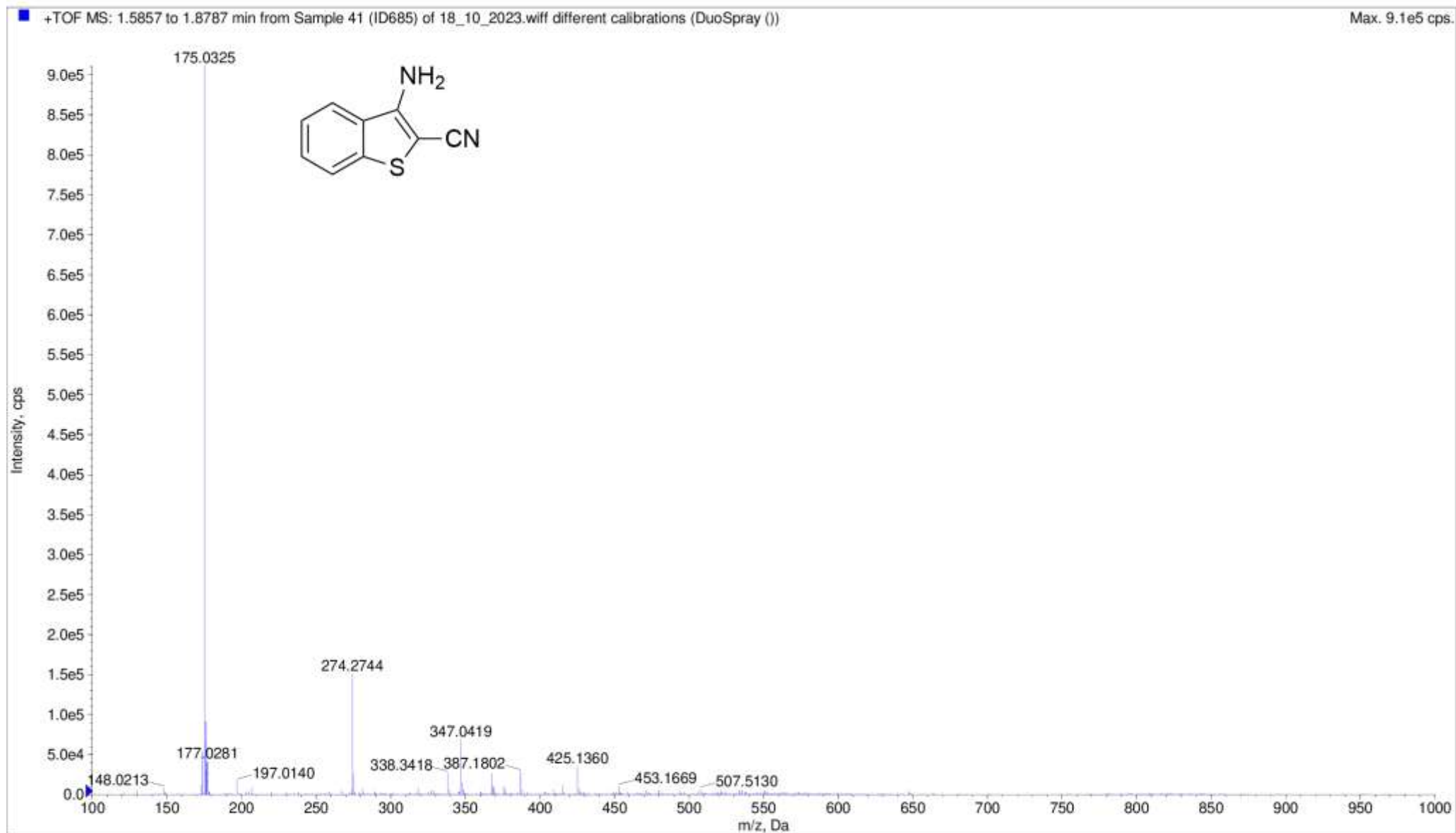
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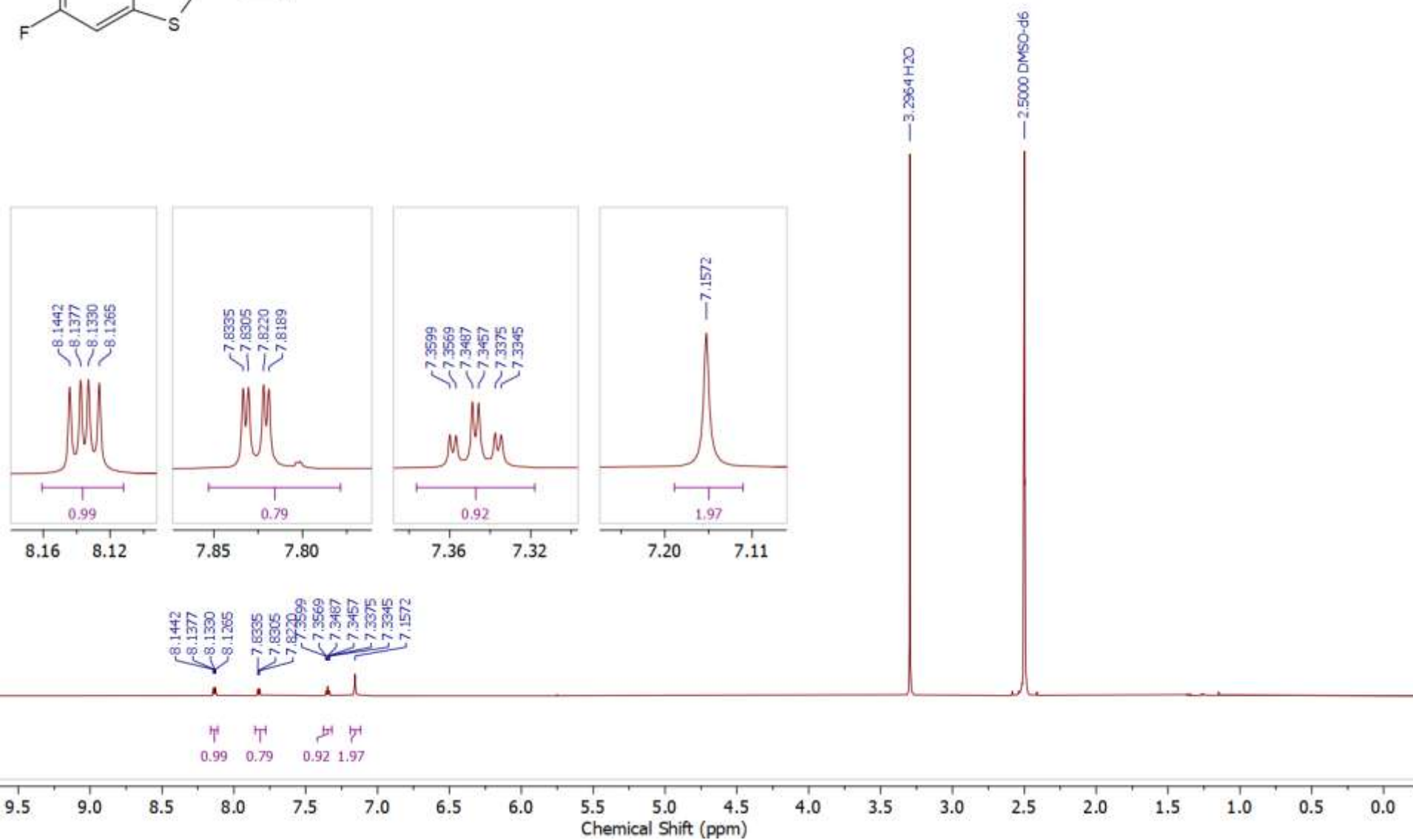
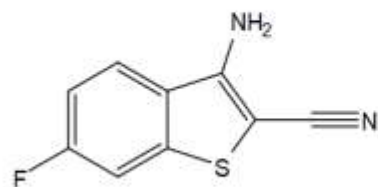
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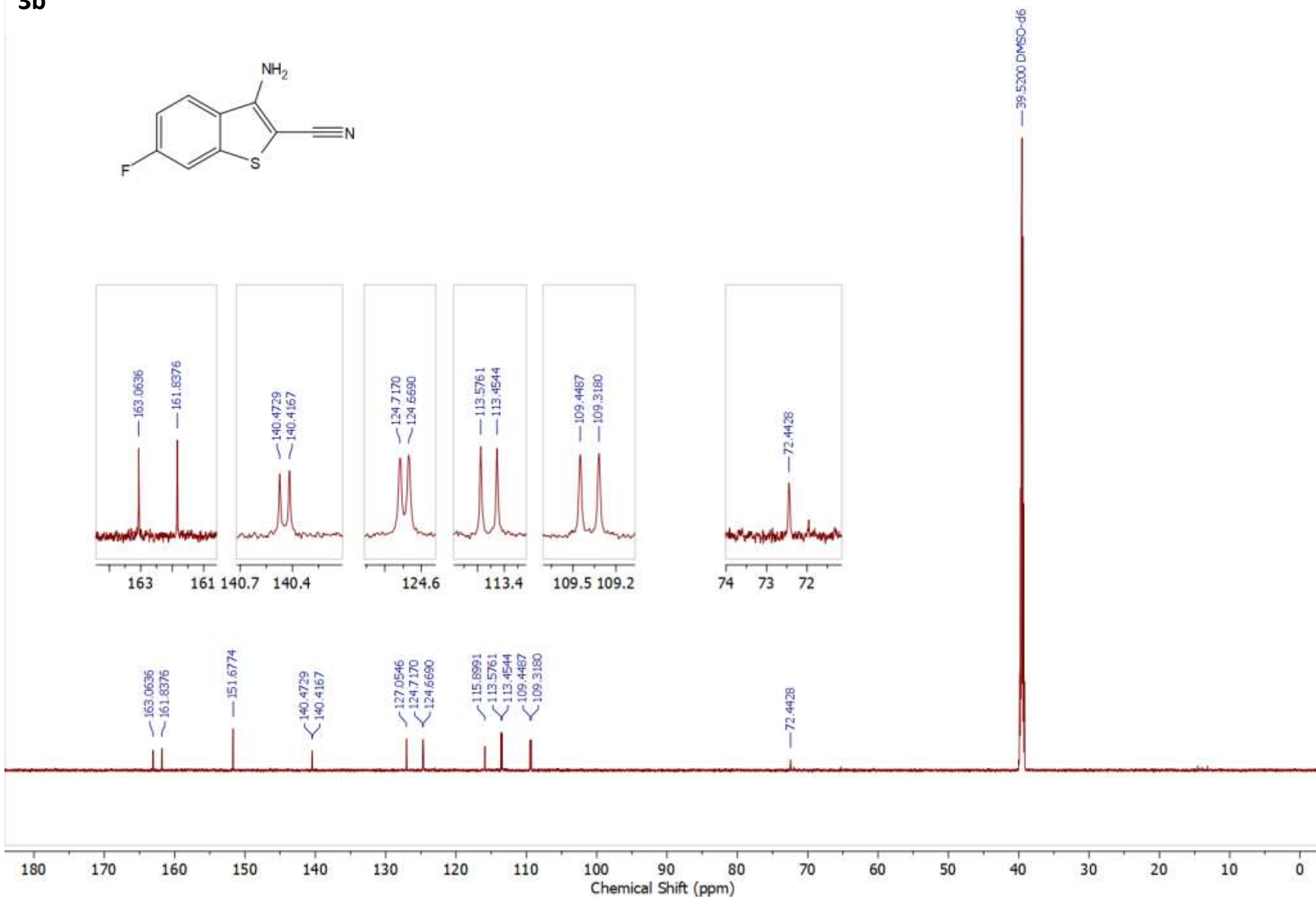
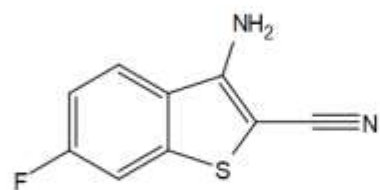
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3b

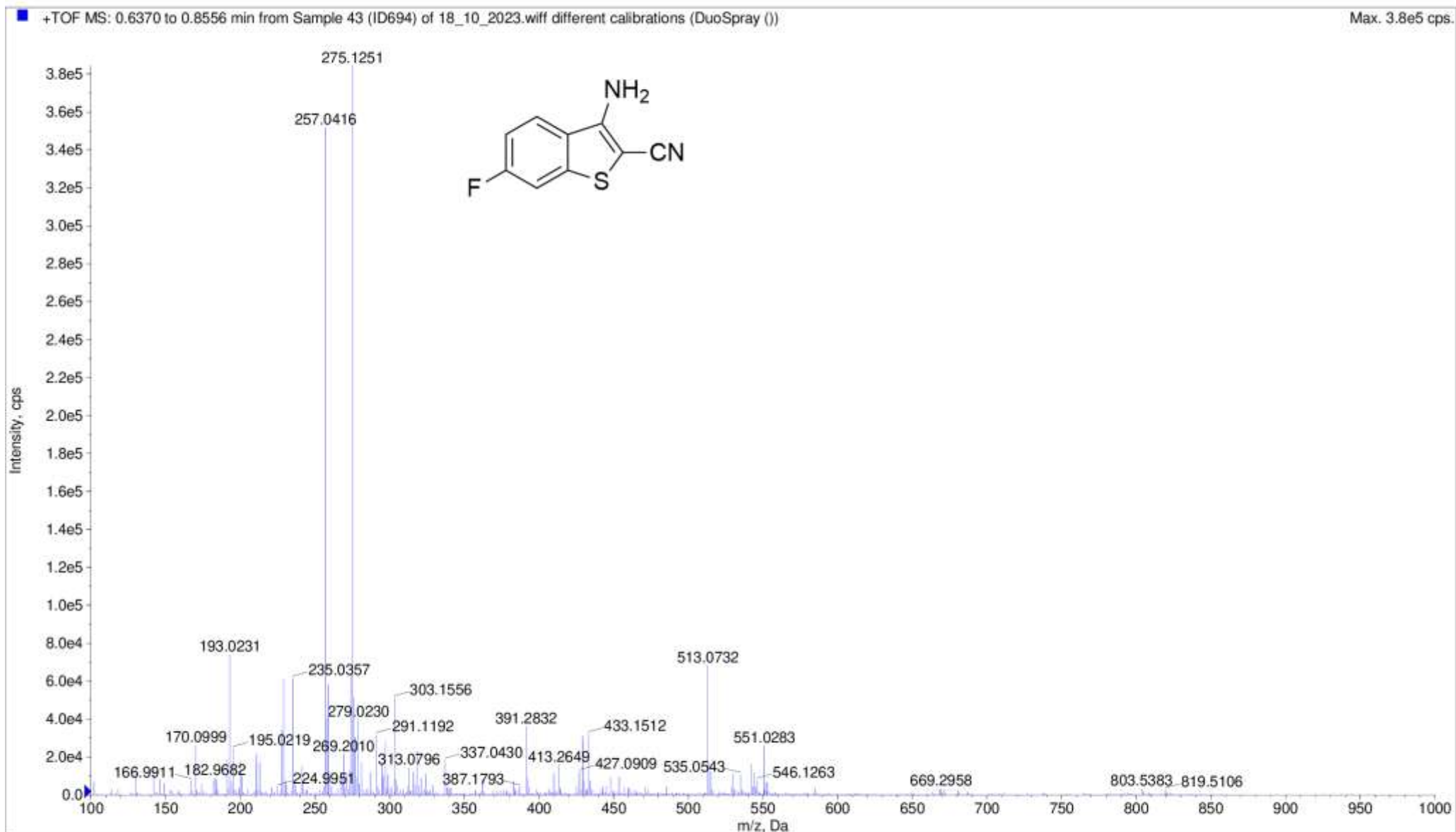


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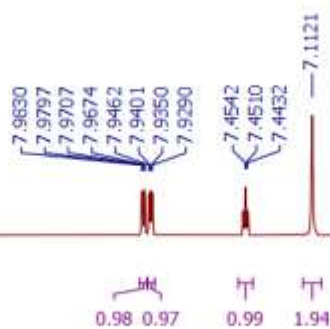
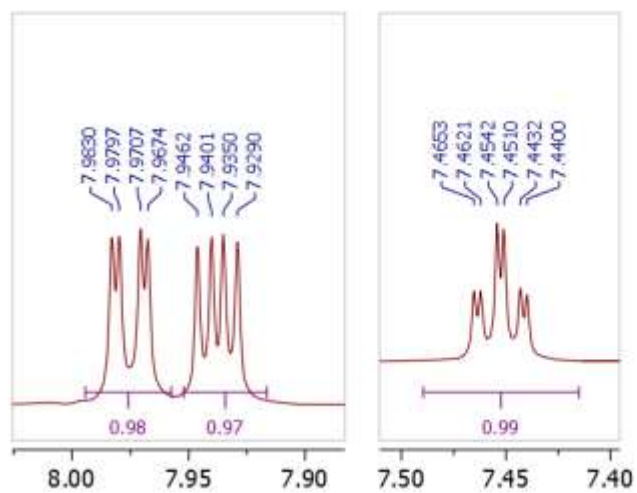
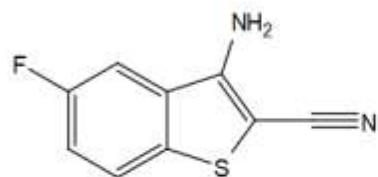




3b



3c

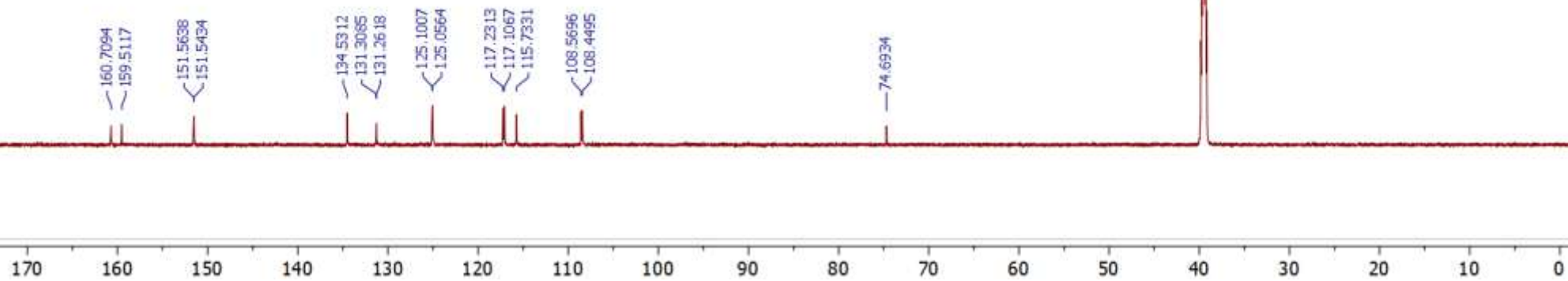
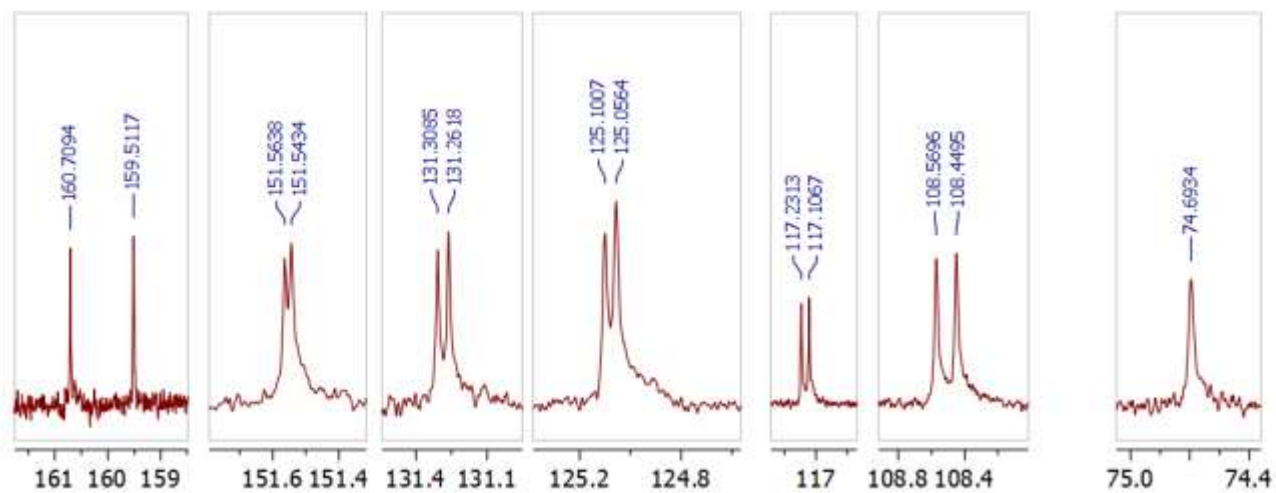
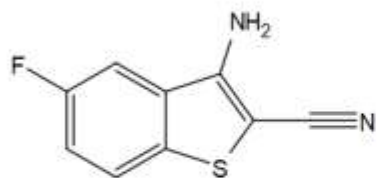


3.2986 H<sub>2</sub>O

2.5000 DMSO-d<sub>6</sub>

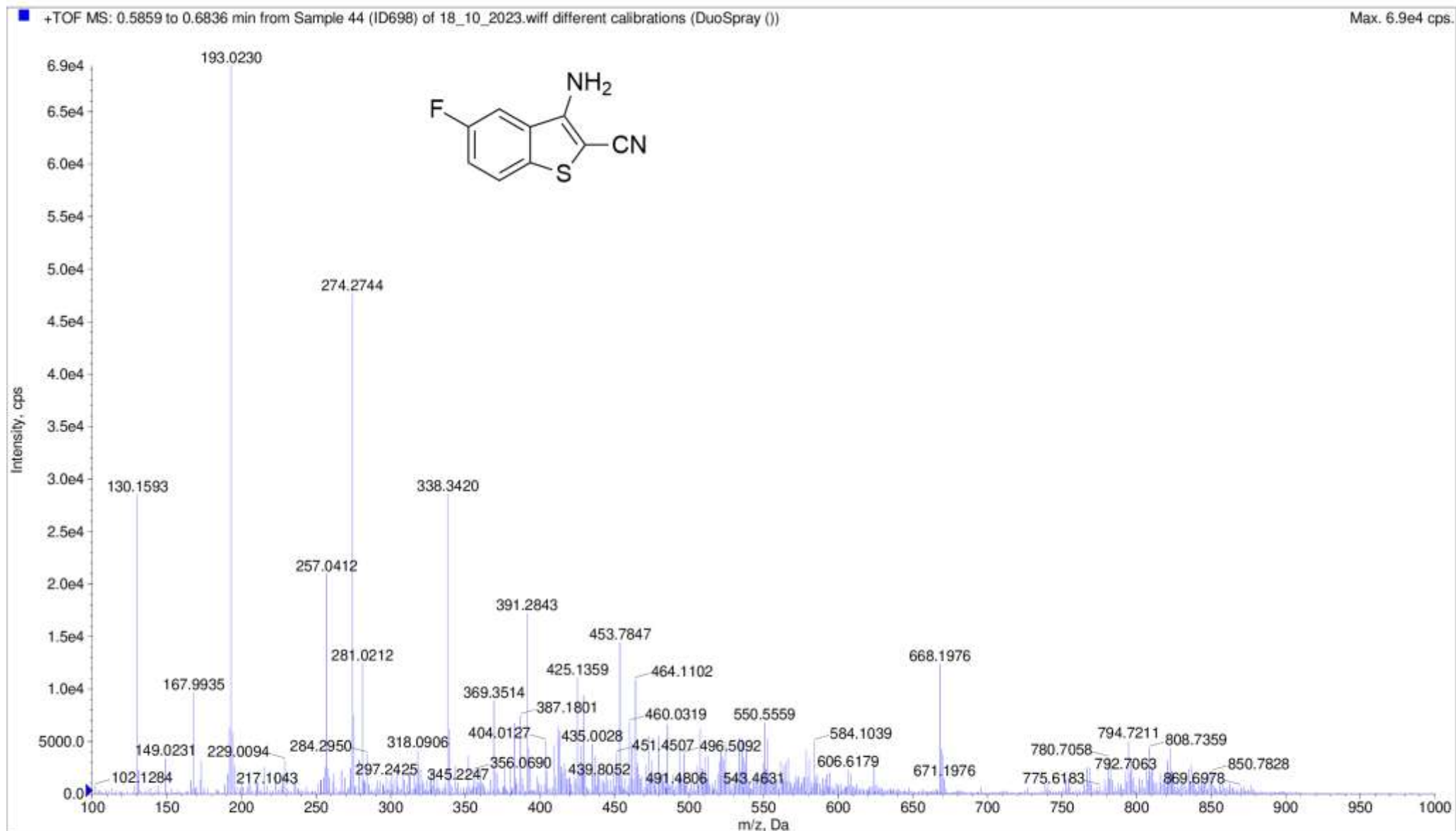
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0  
Chemical Shift (ppm)

3c

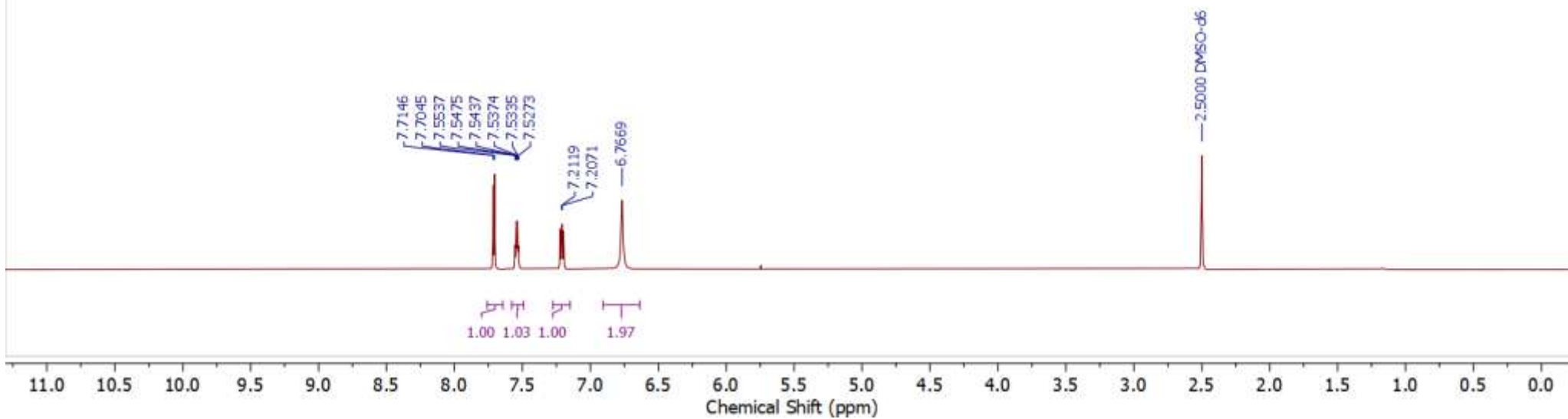
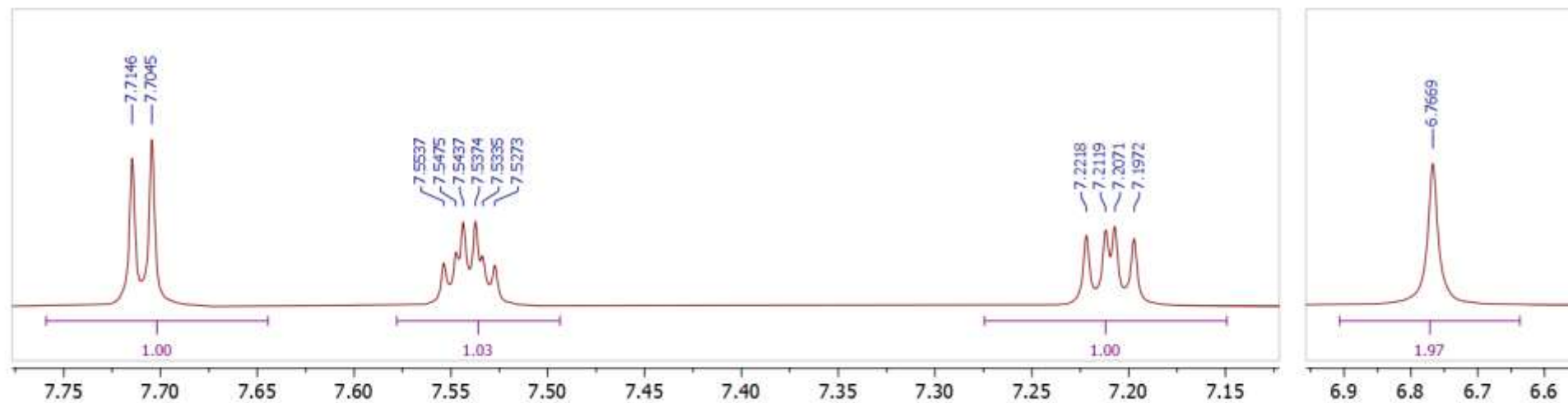
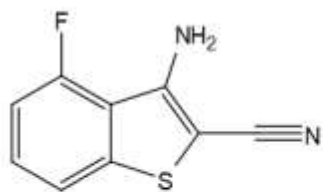


— 39.5200 DMSO-d6

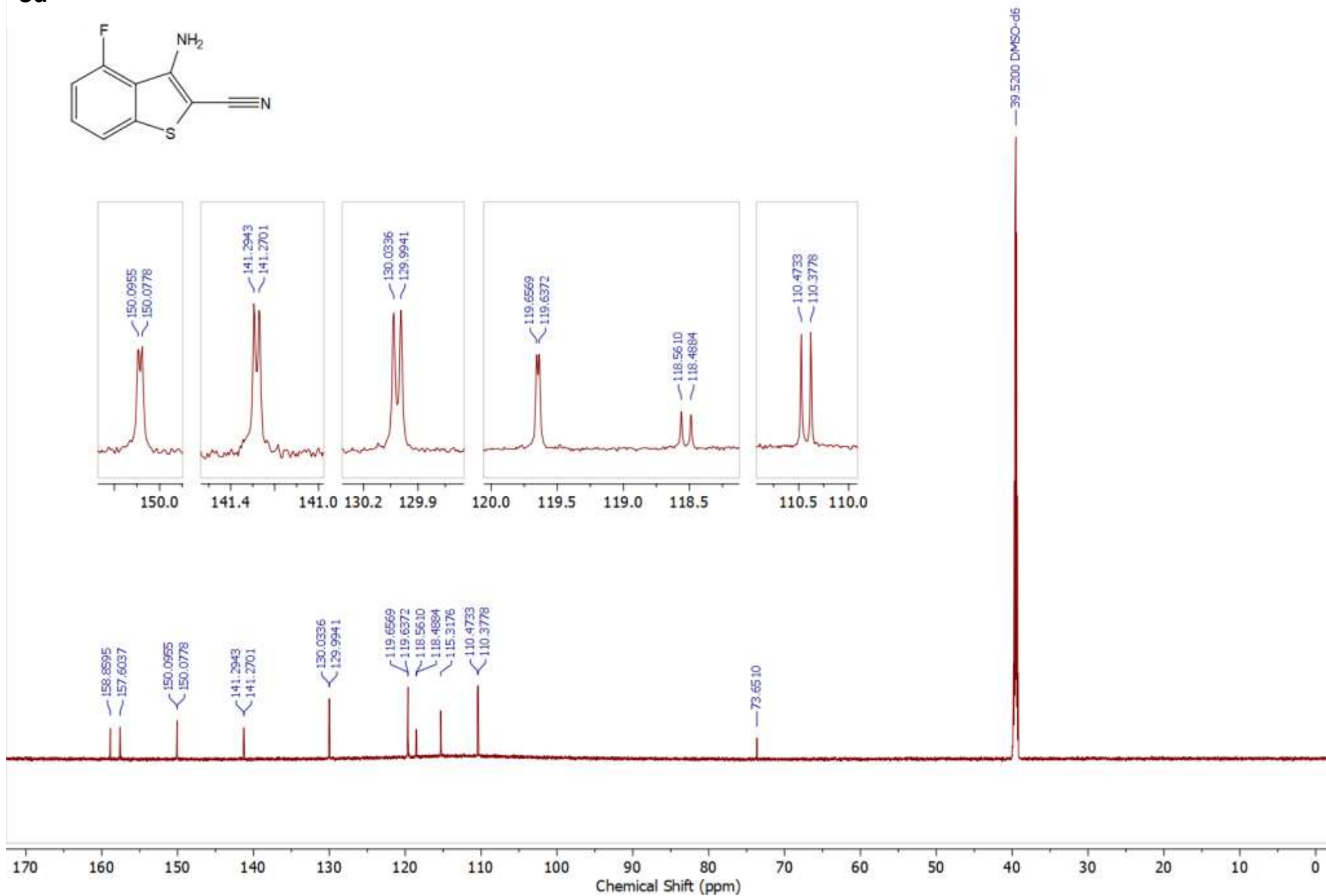
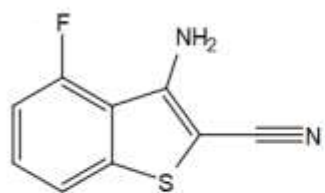
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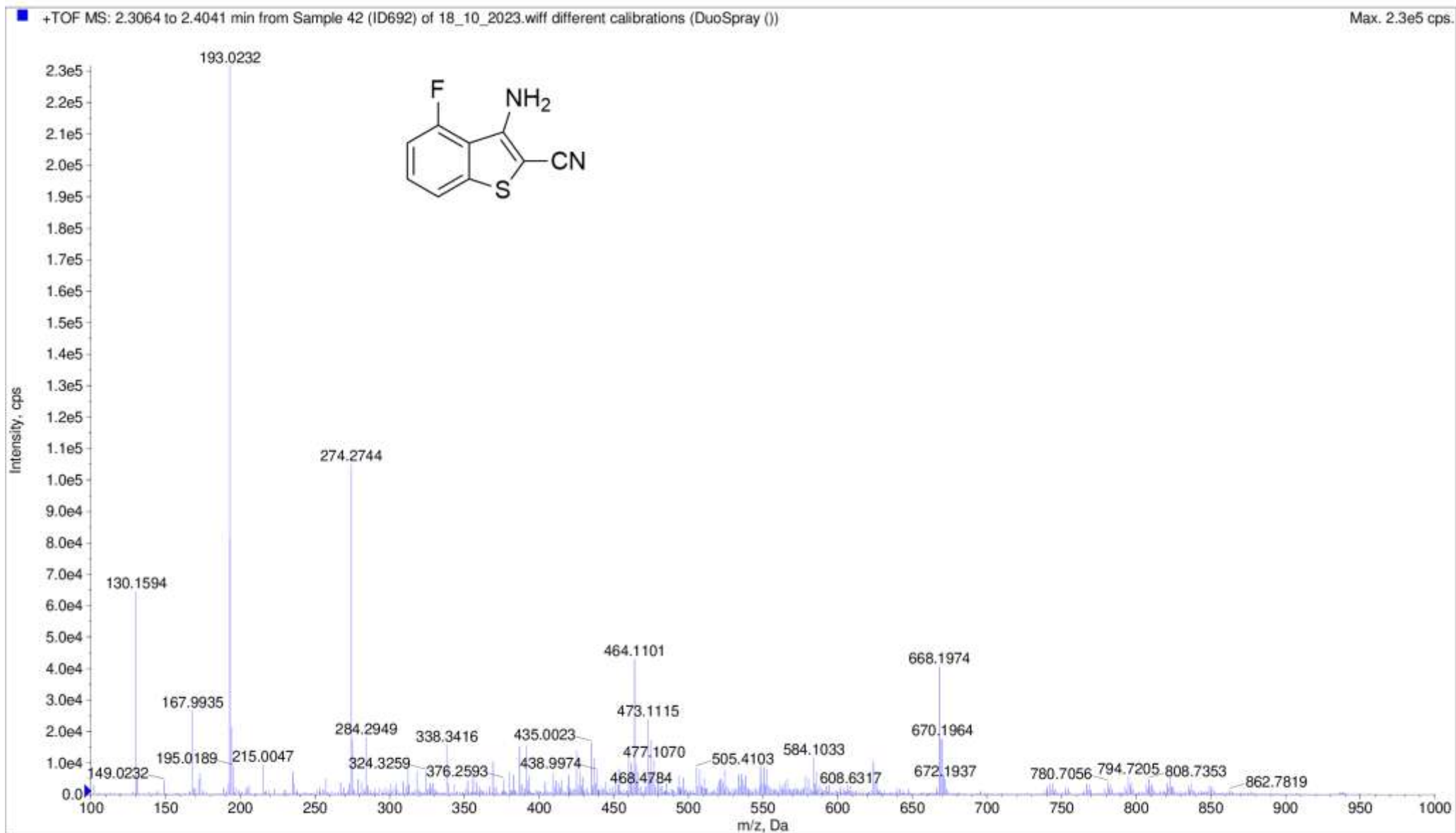
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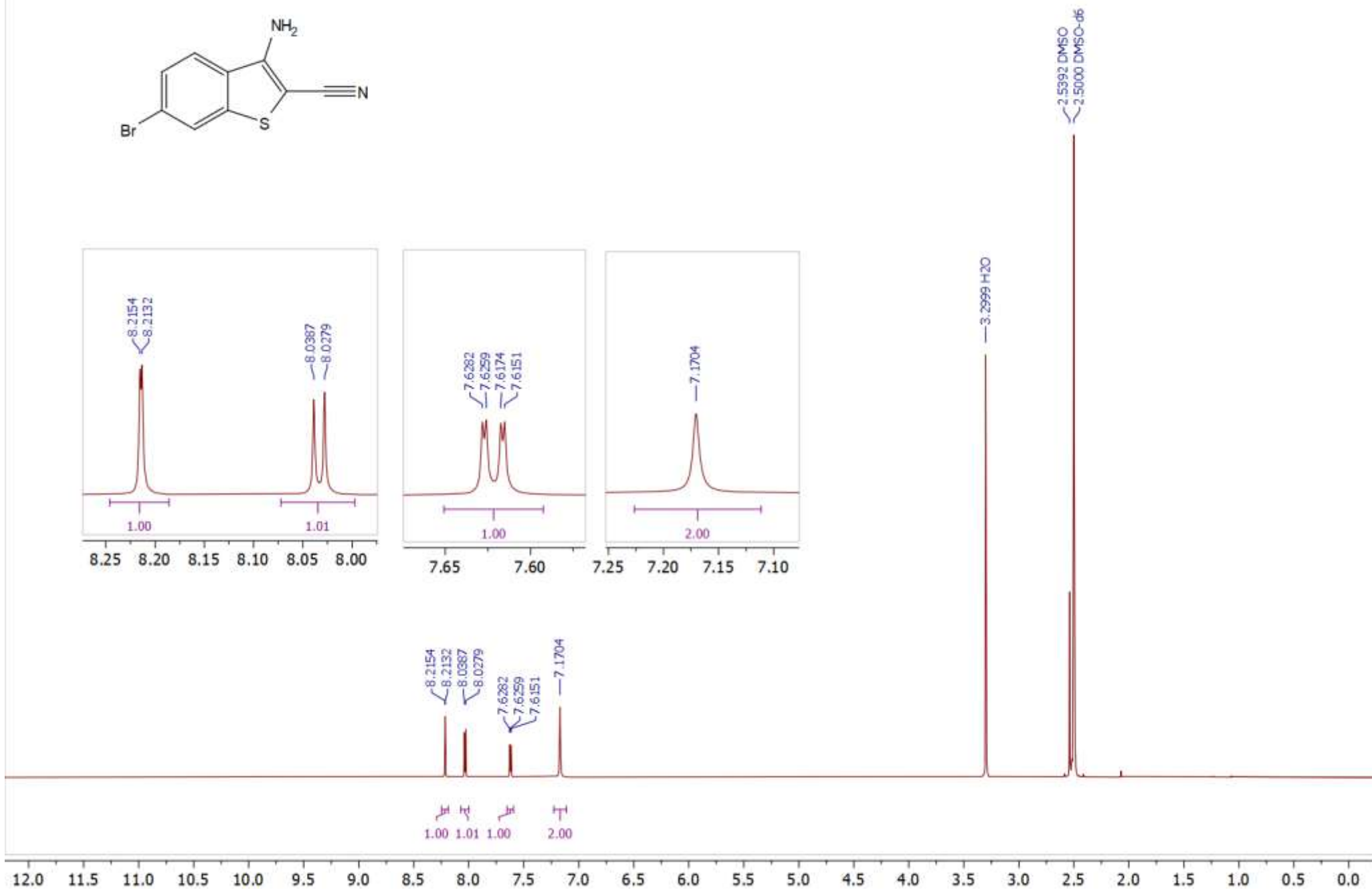
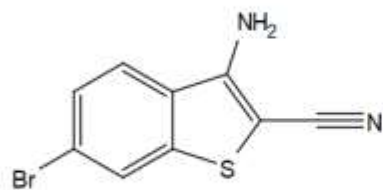
3d



3d

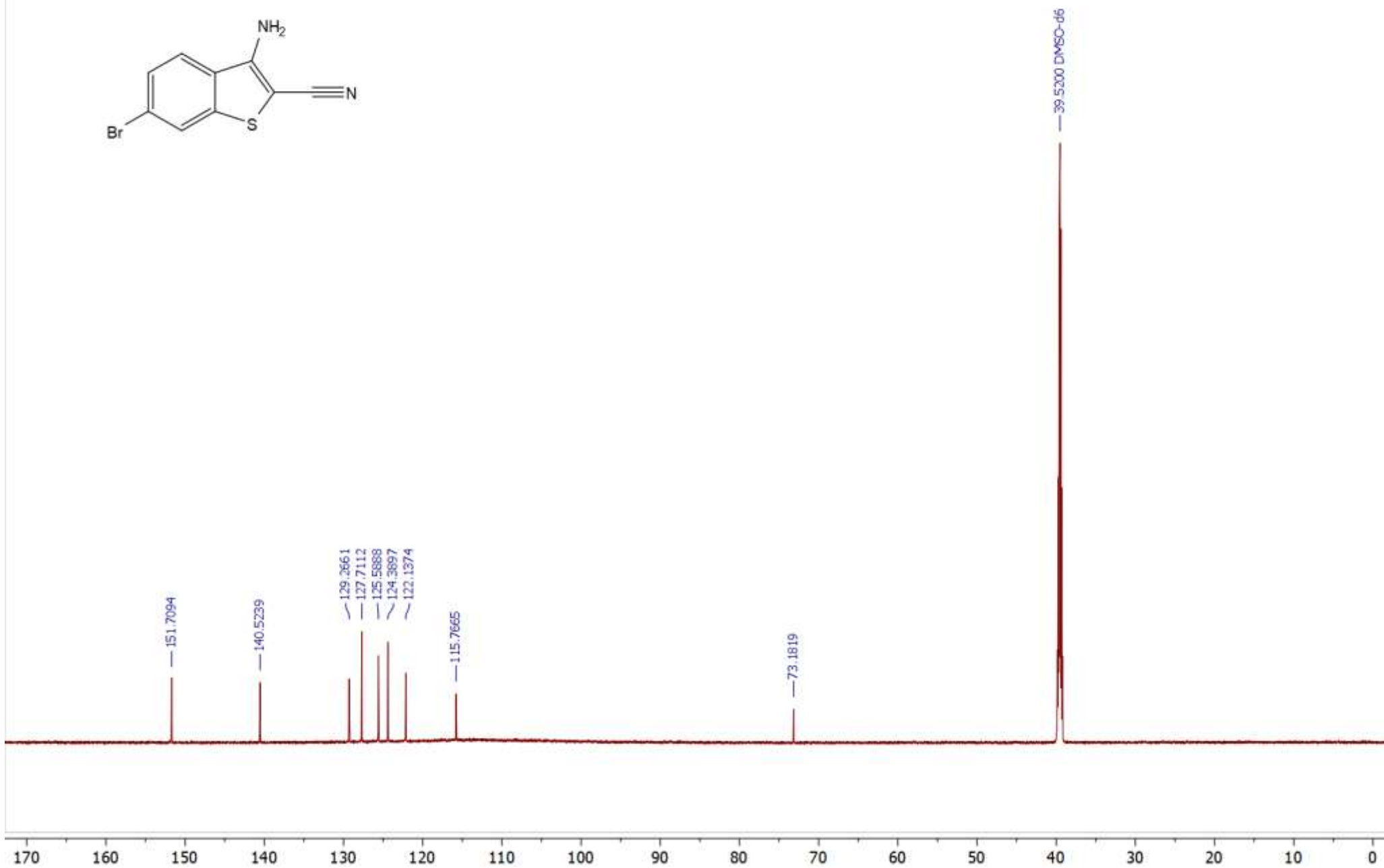
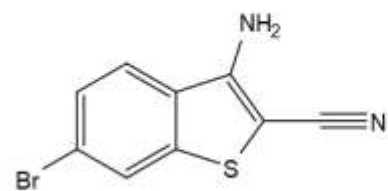


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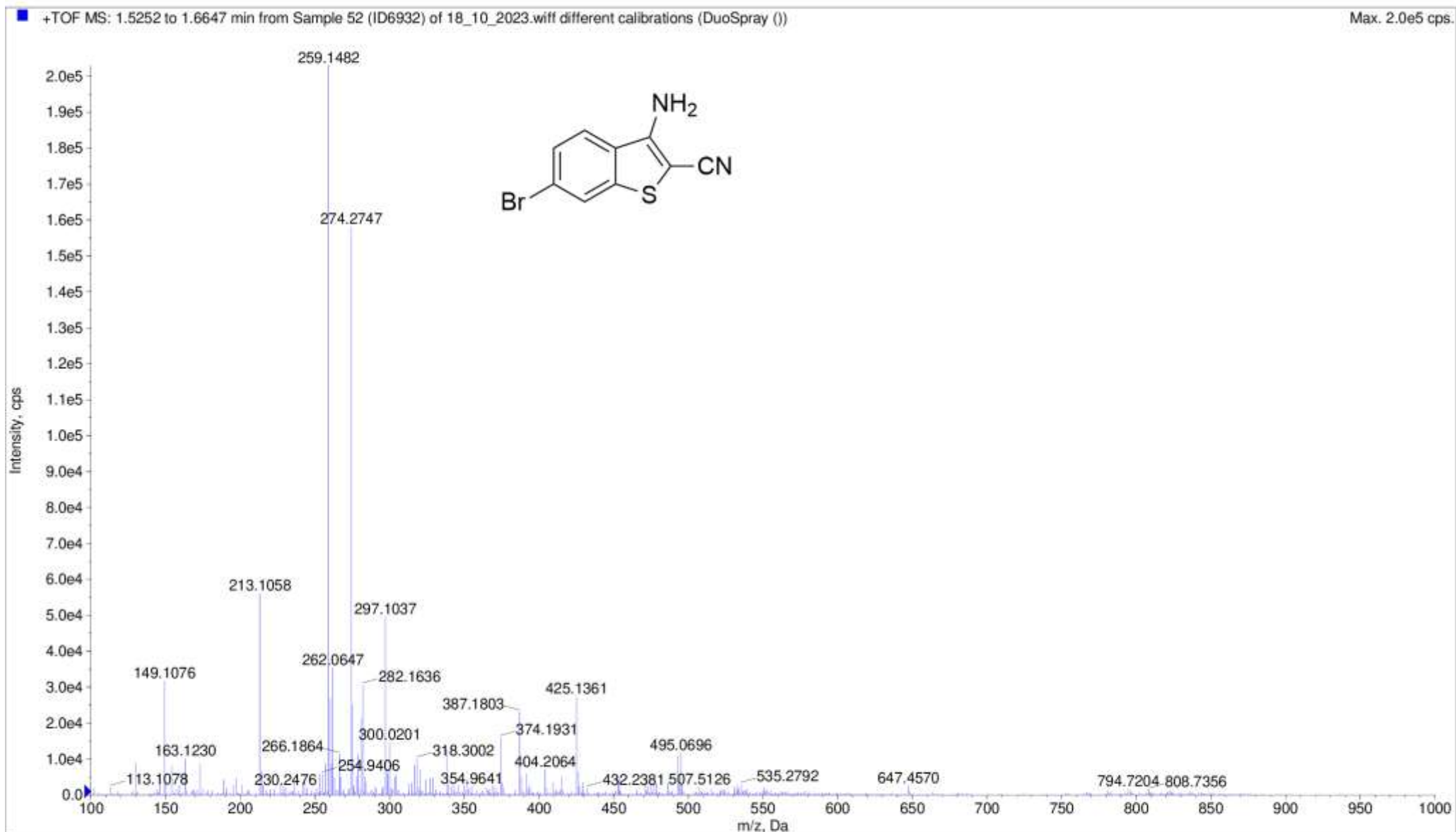




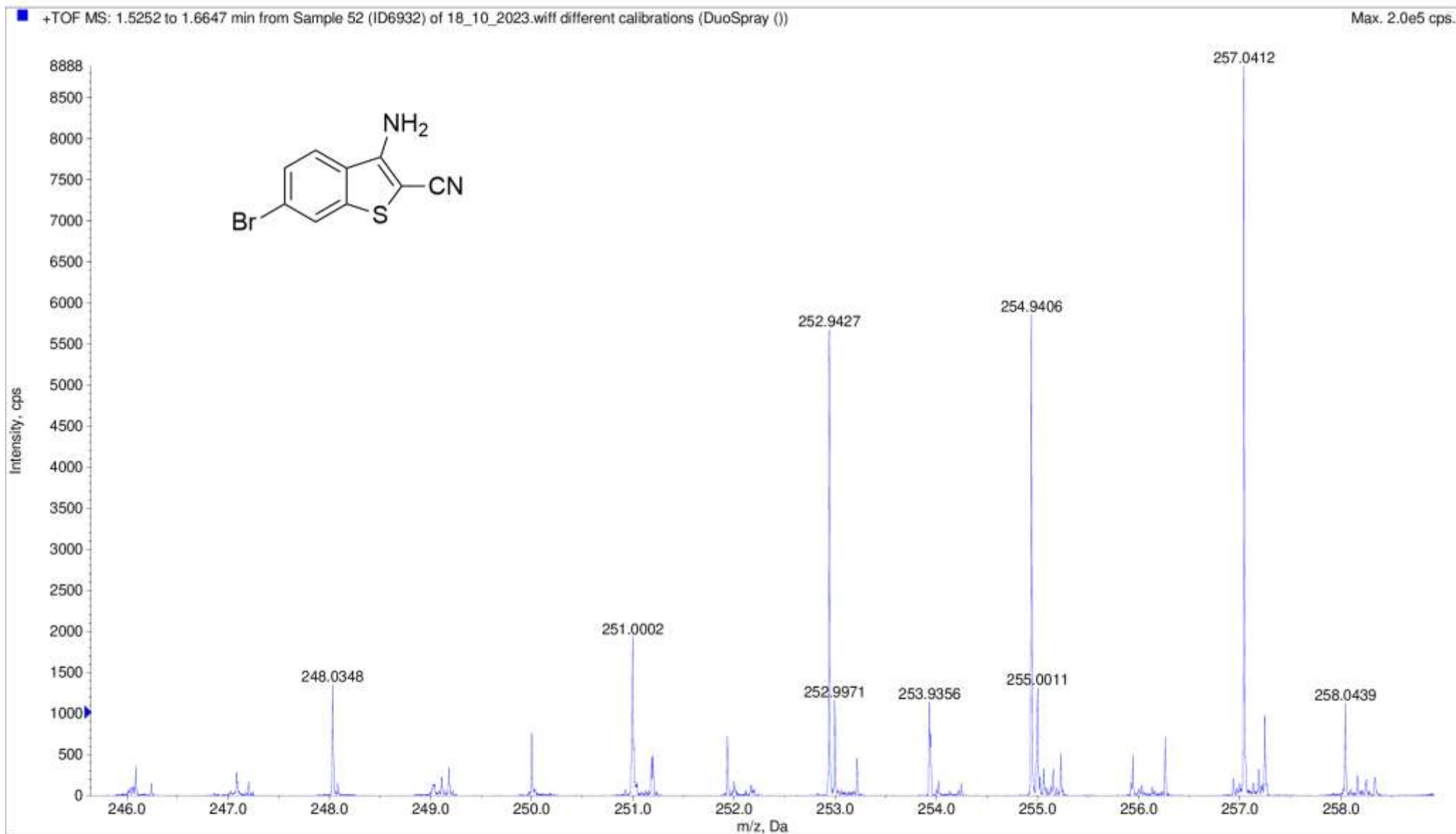
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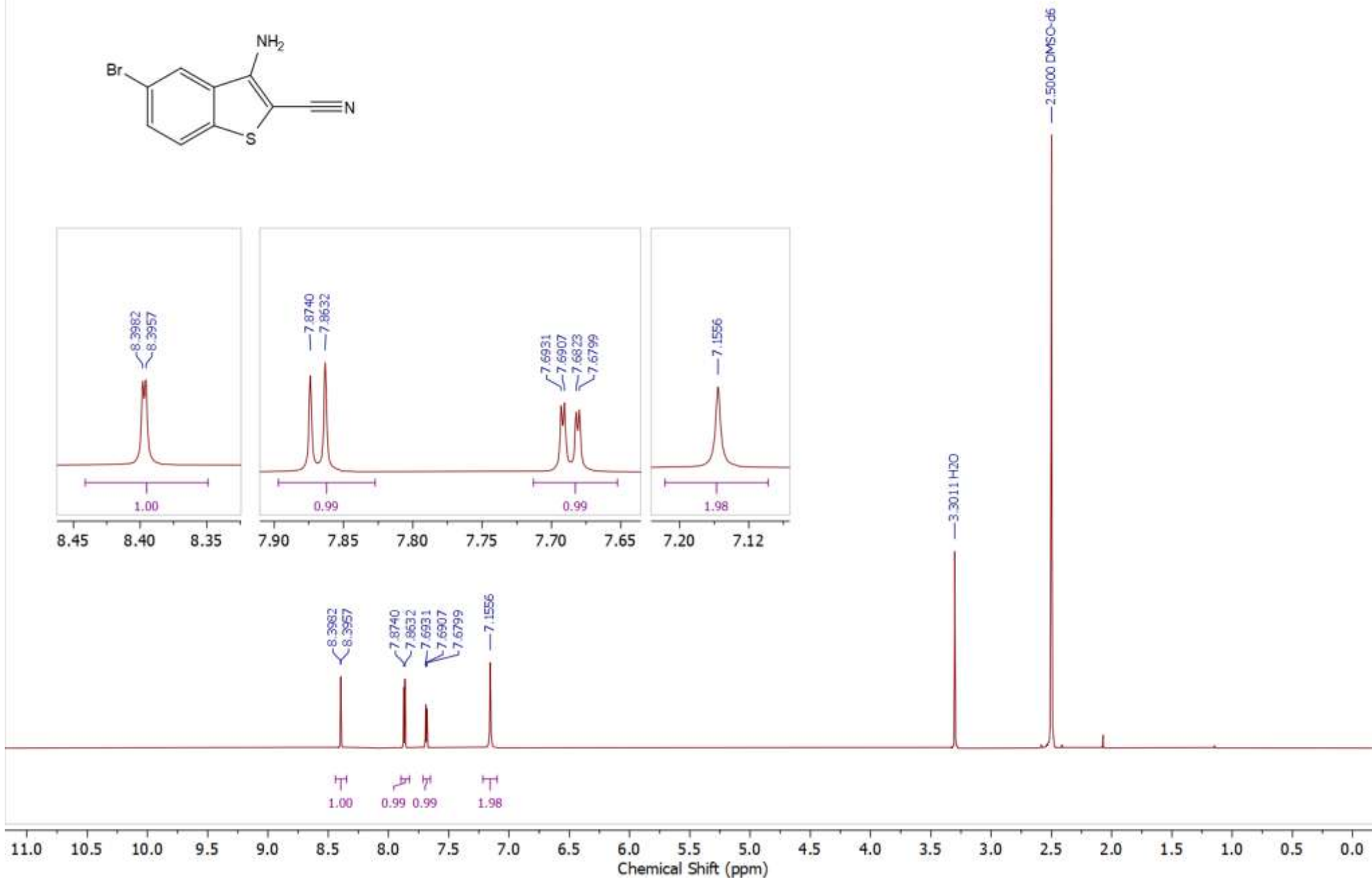
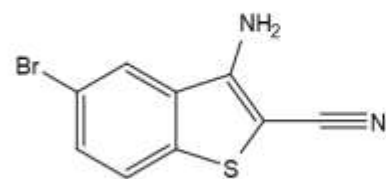
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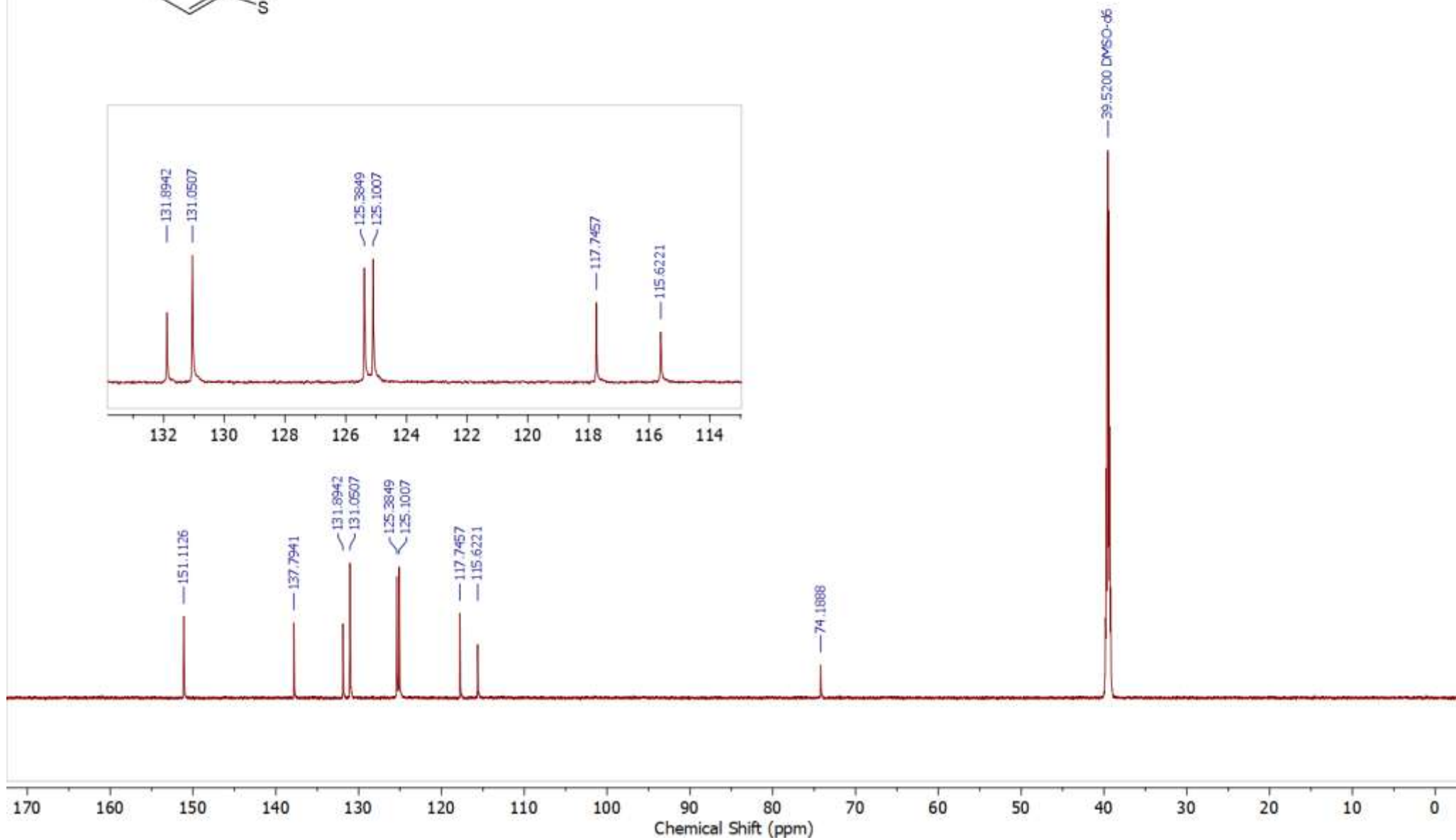
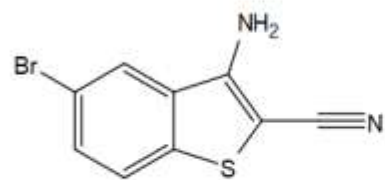
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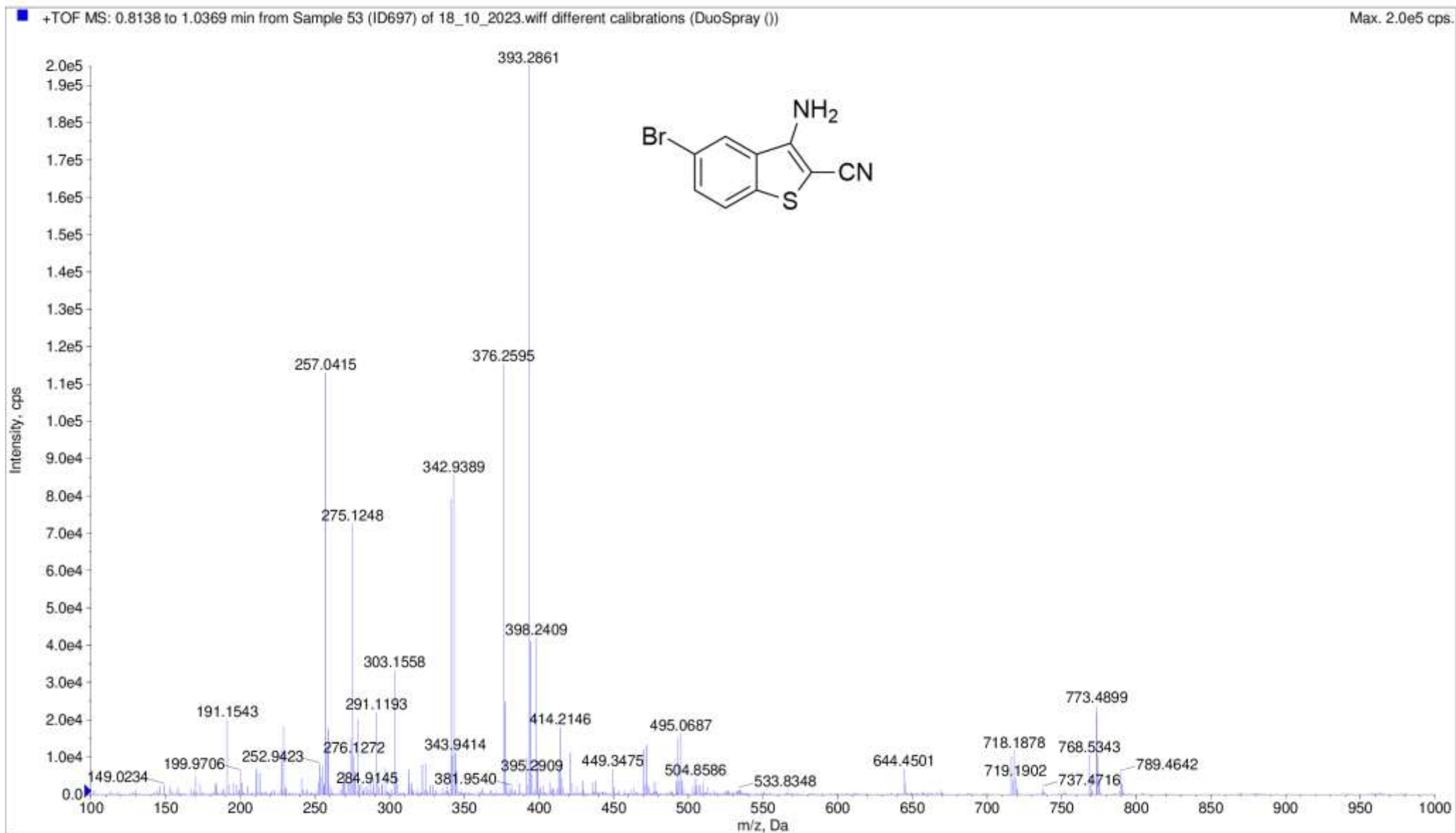
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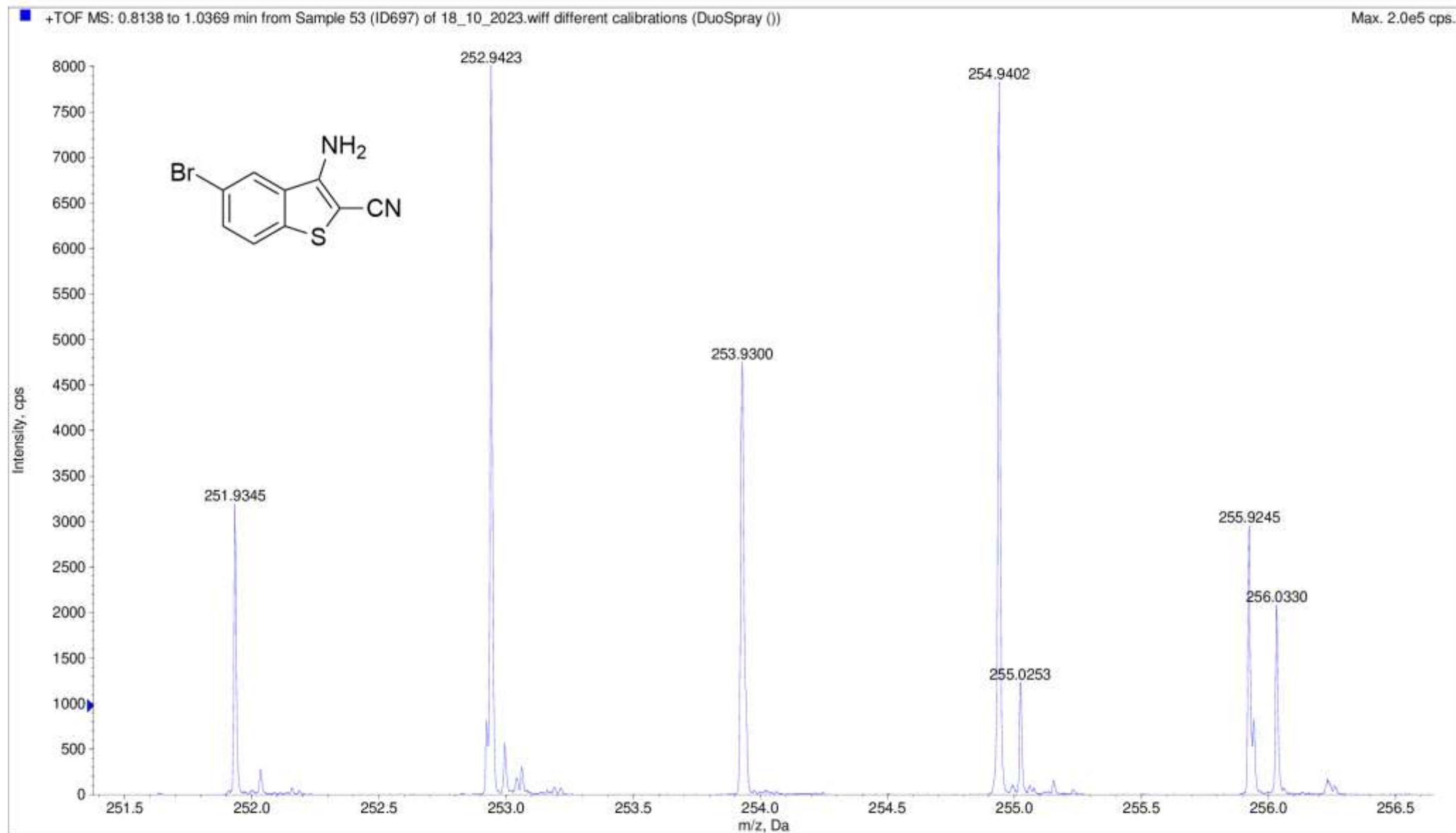
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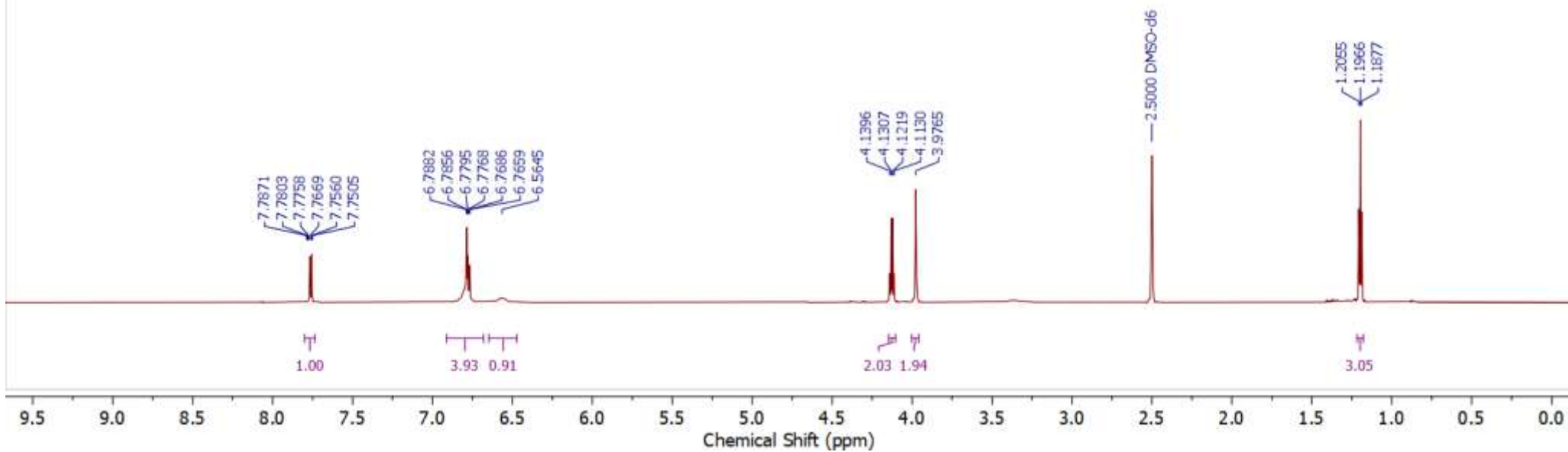
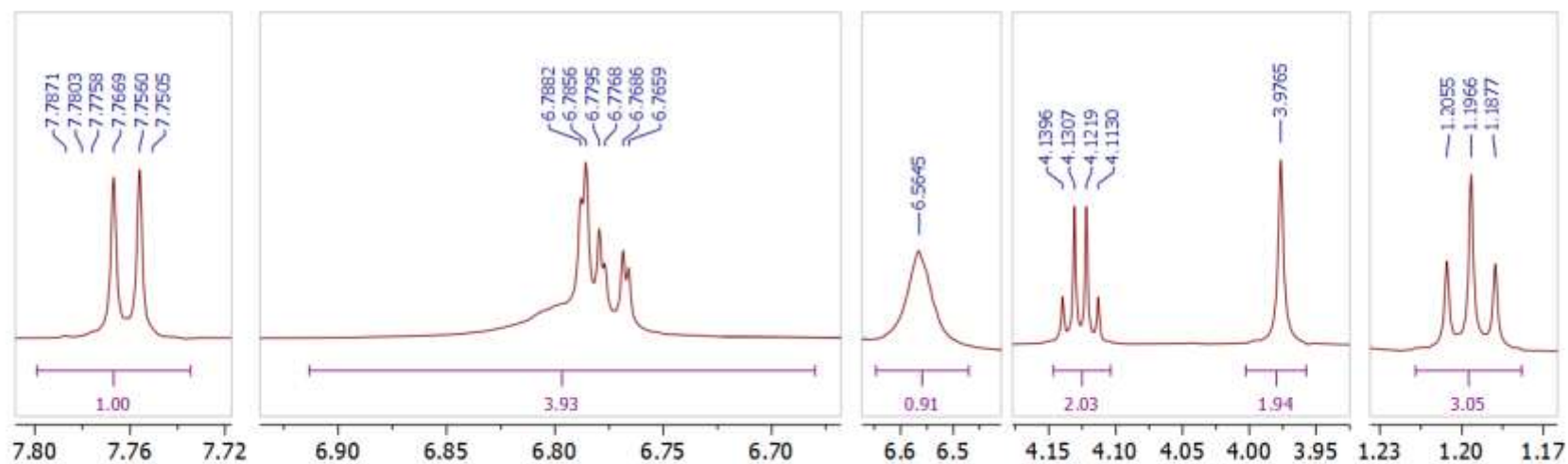
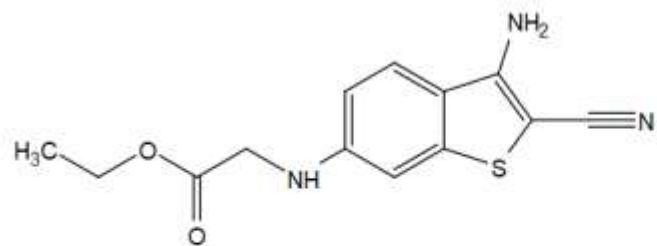


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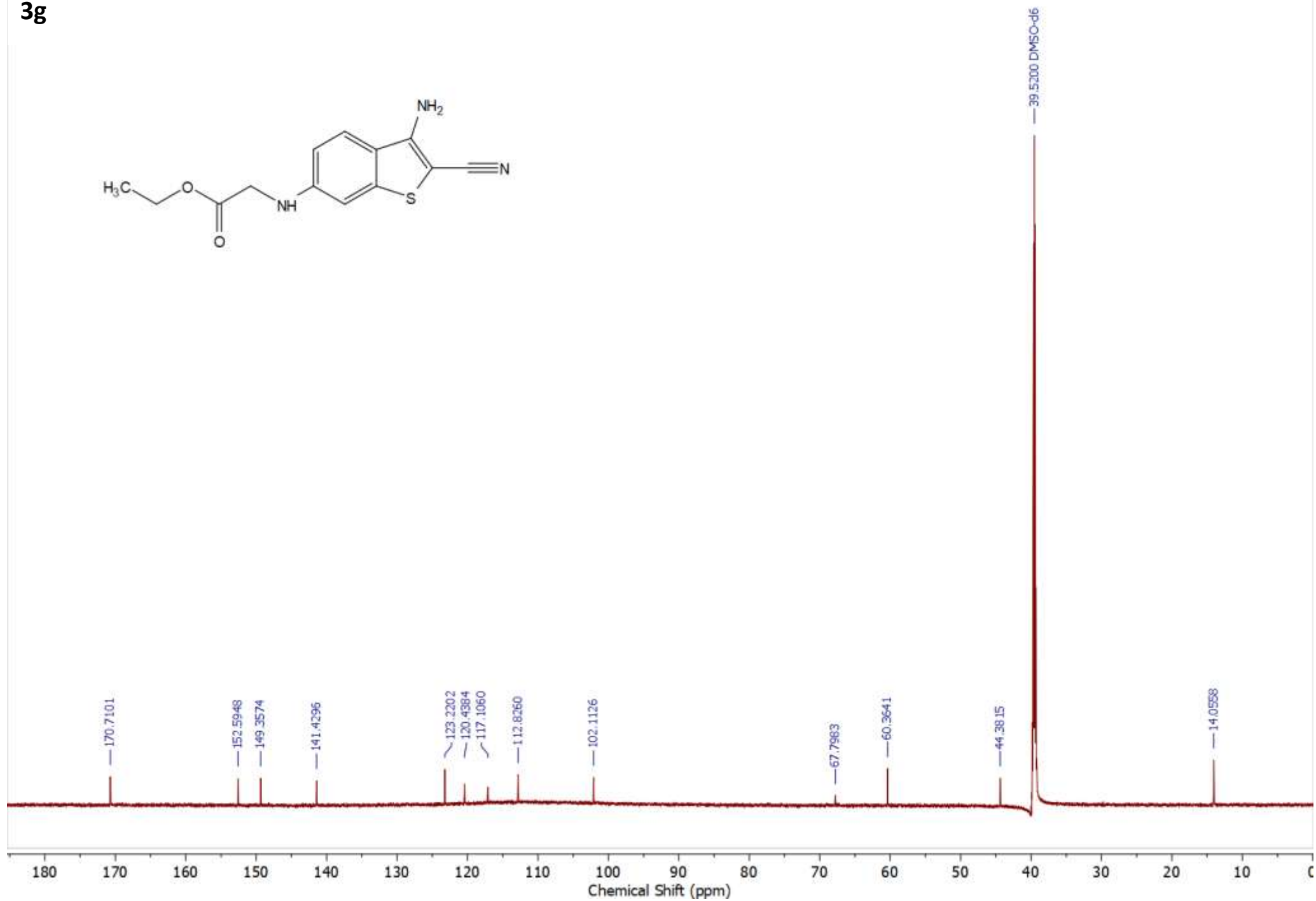
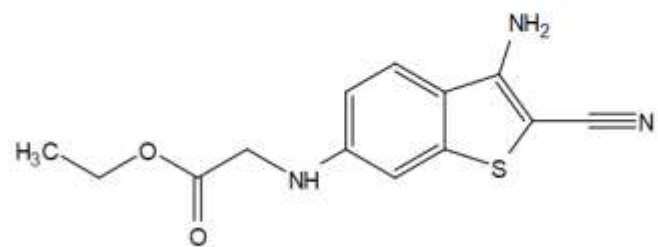
3f



**3g**



3g



3g

