

Cysteine catalyzed water mediated eco-friendly approach for the synthesis of 5-substituted 1*H*-tetrazole and its derivatives

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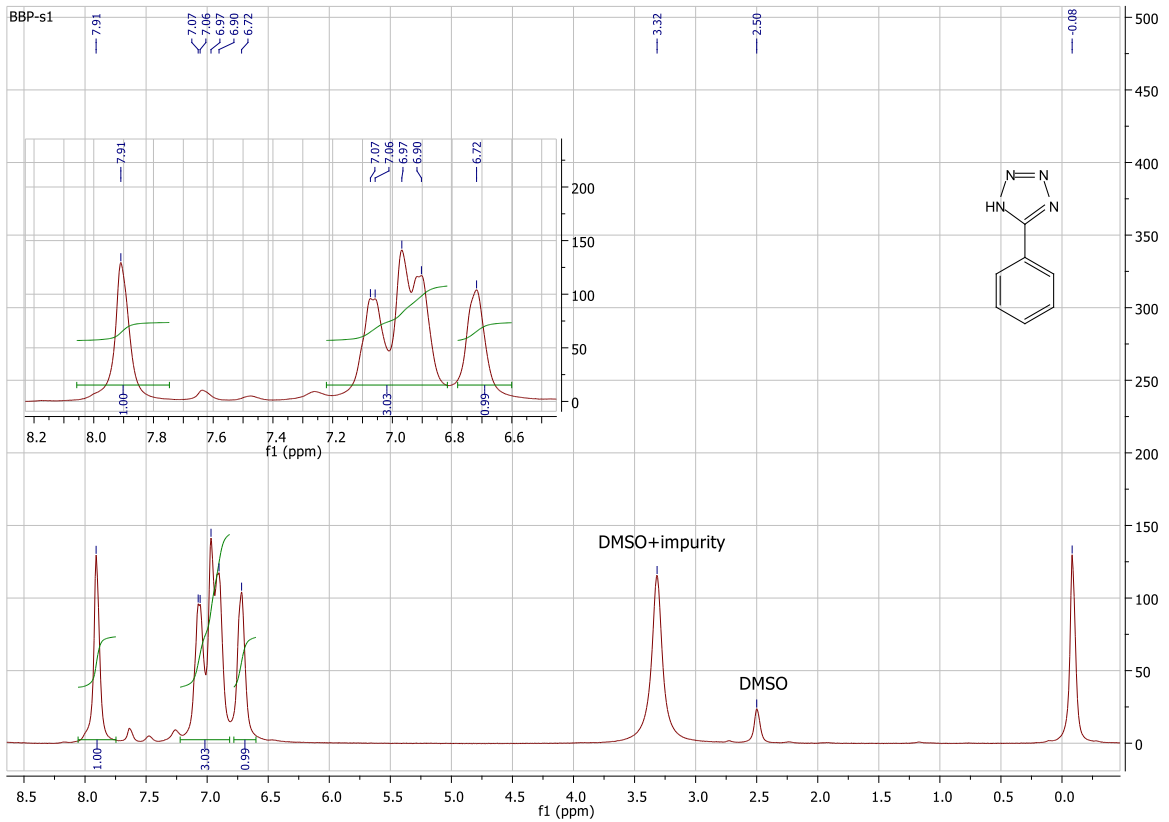
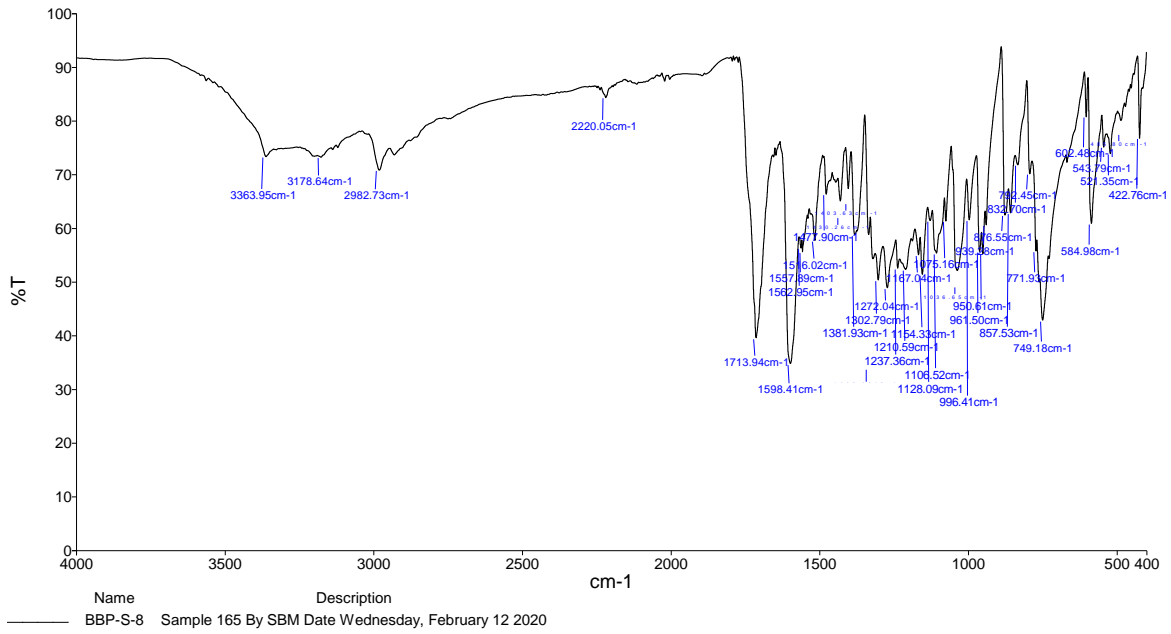
^b Department of Chemistry, The Institute of Science, Mumbai, Dr. Homi Bhabha State University, 15, Madame Cama Road, Mumbai, 32, India

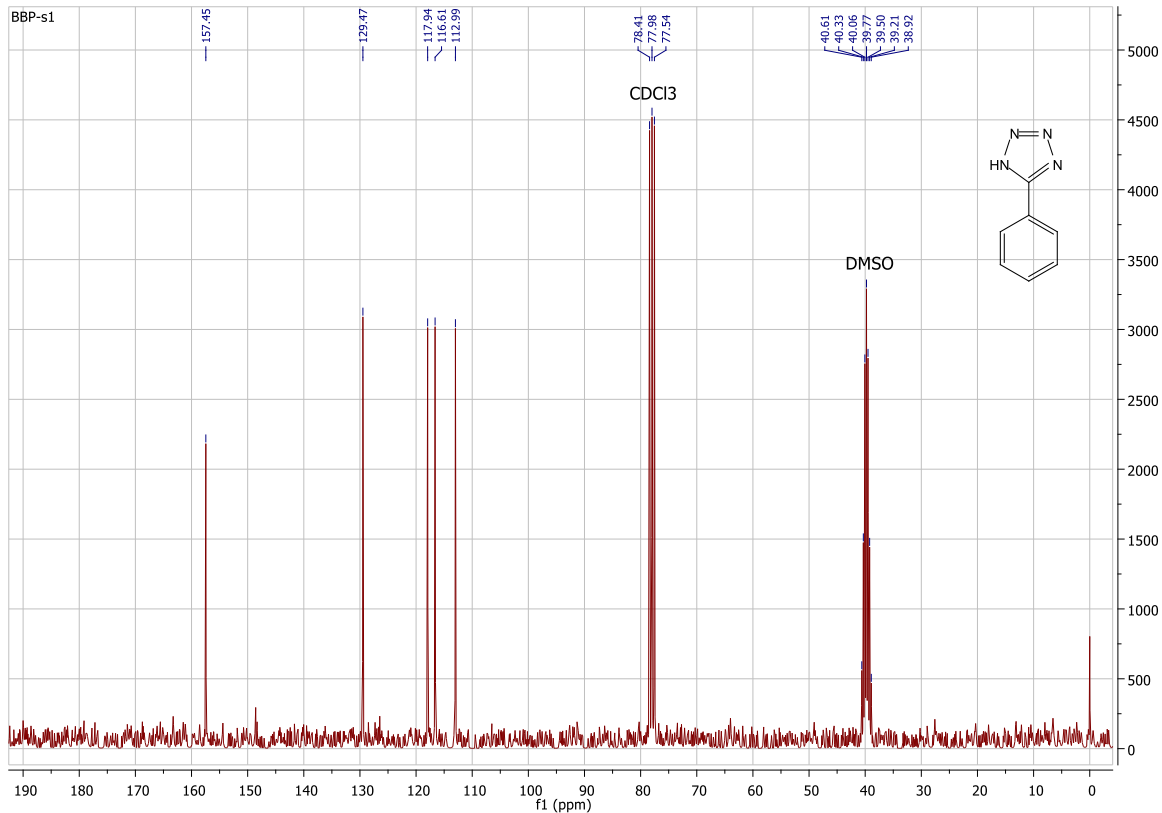
^c Department of Chemistry, Dr. Ambedkar College, Deekshabhoomi, Nagpur, Maharashtra 440010, India.

Corresponding author: Dr. Bhushan B. Popatkar, Department of Chemistry, University of Mumbai, Vidyanagari, Kalina, Santacruz (E), Mumbai 400 098, India

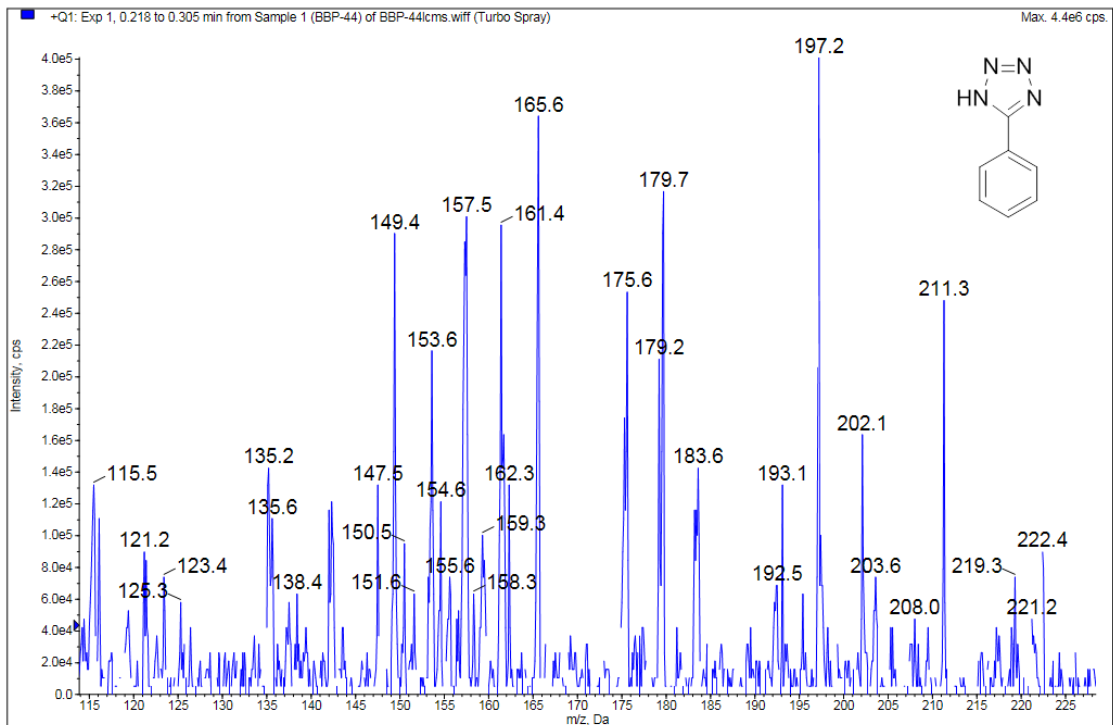
Contents:	Page No.
I. Spectra.....	2-30

5-Phenyl-1H-tetrazole (4a):

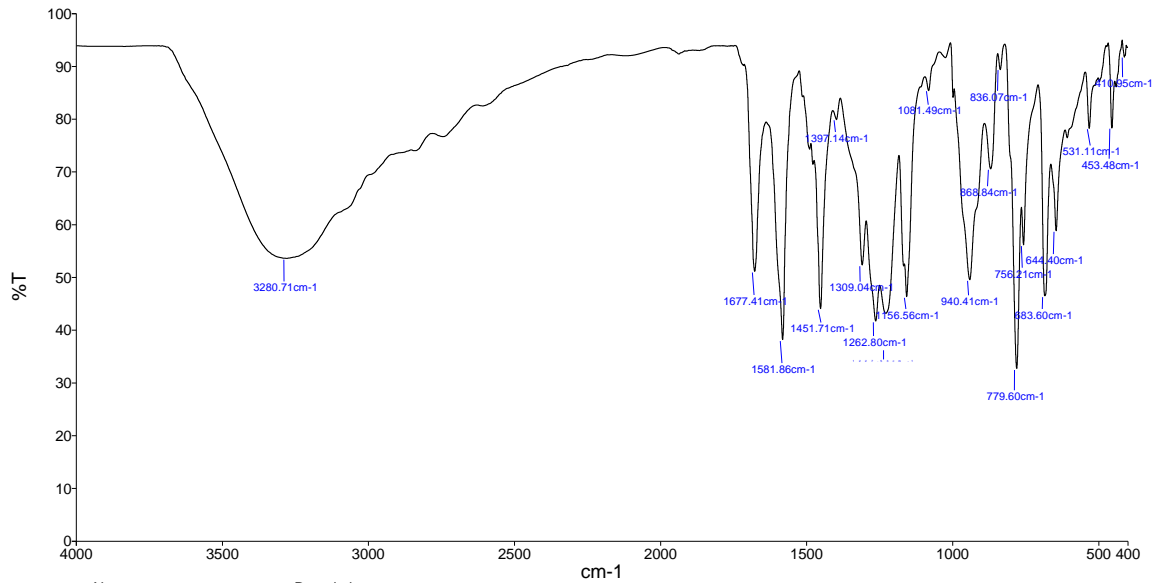




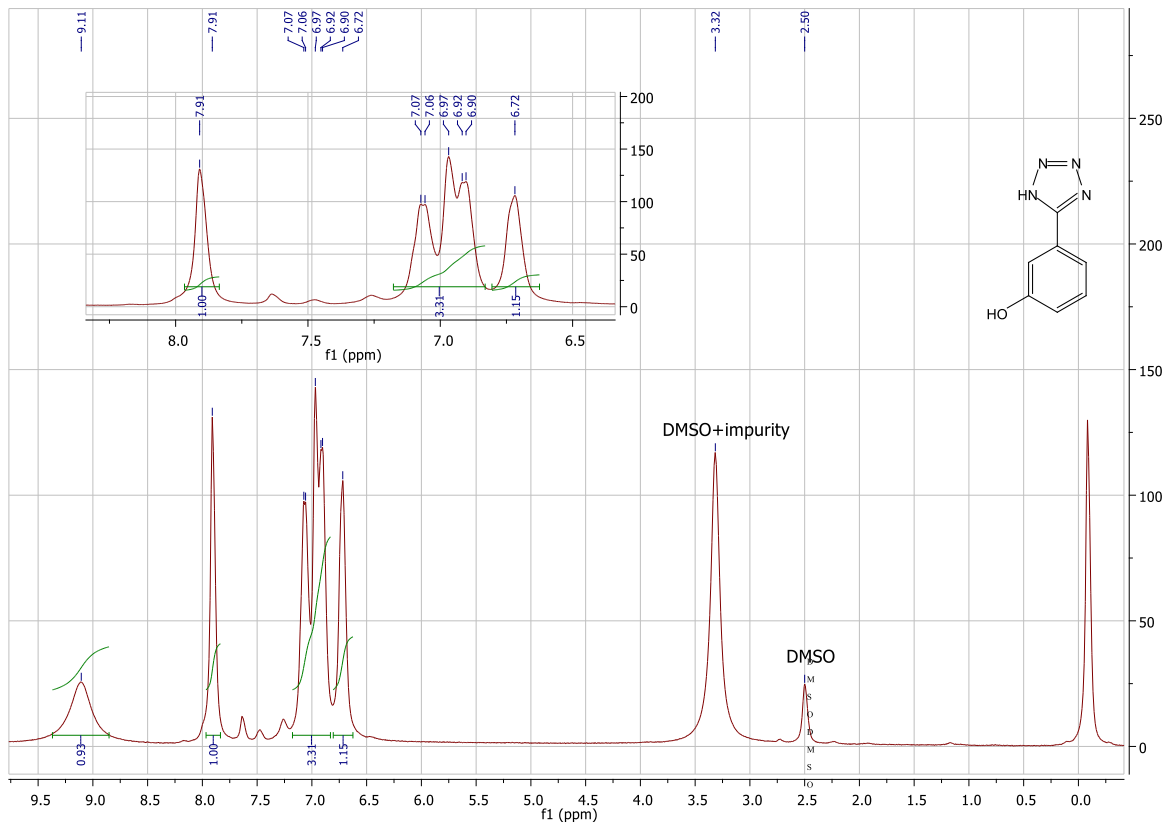
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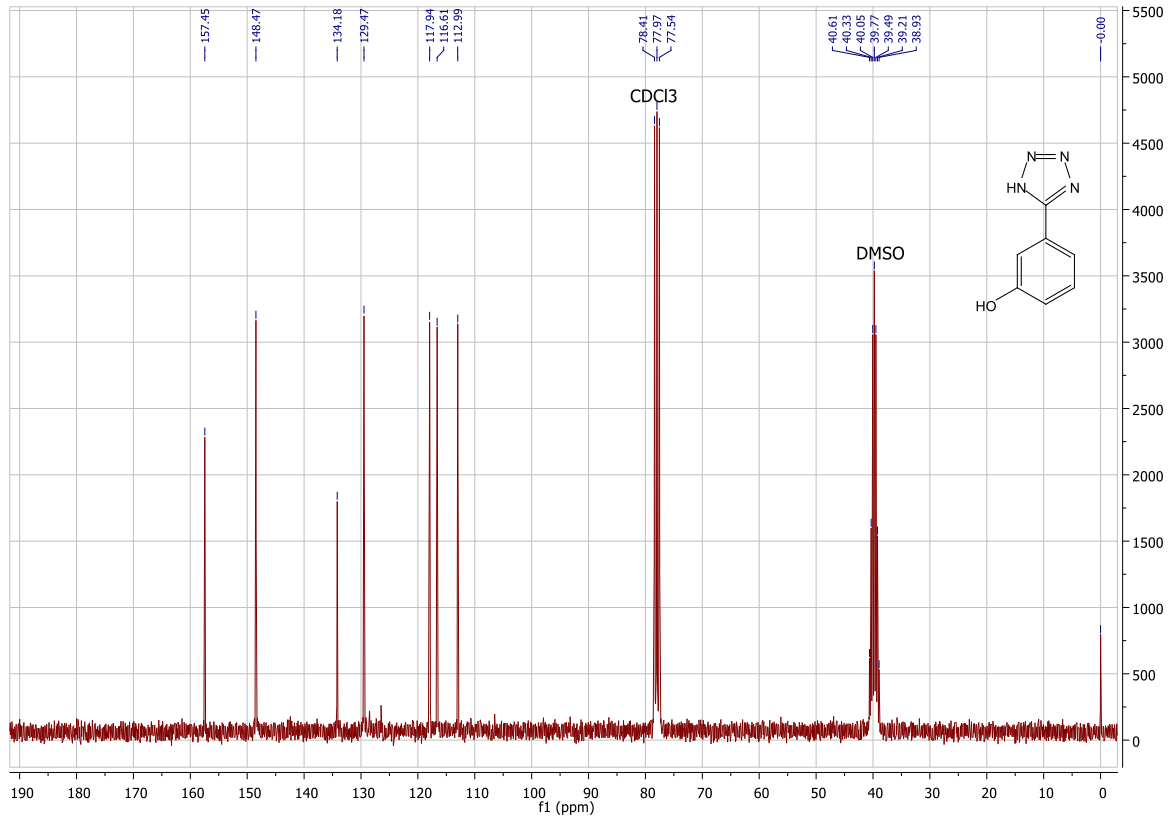


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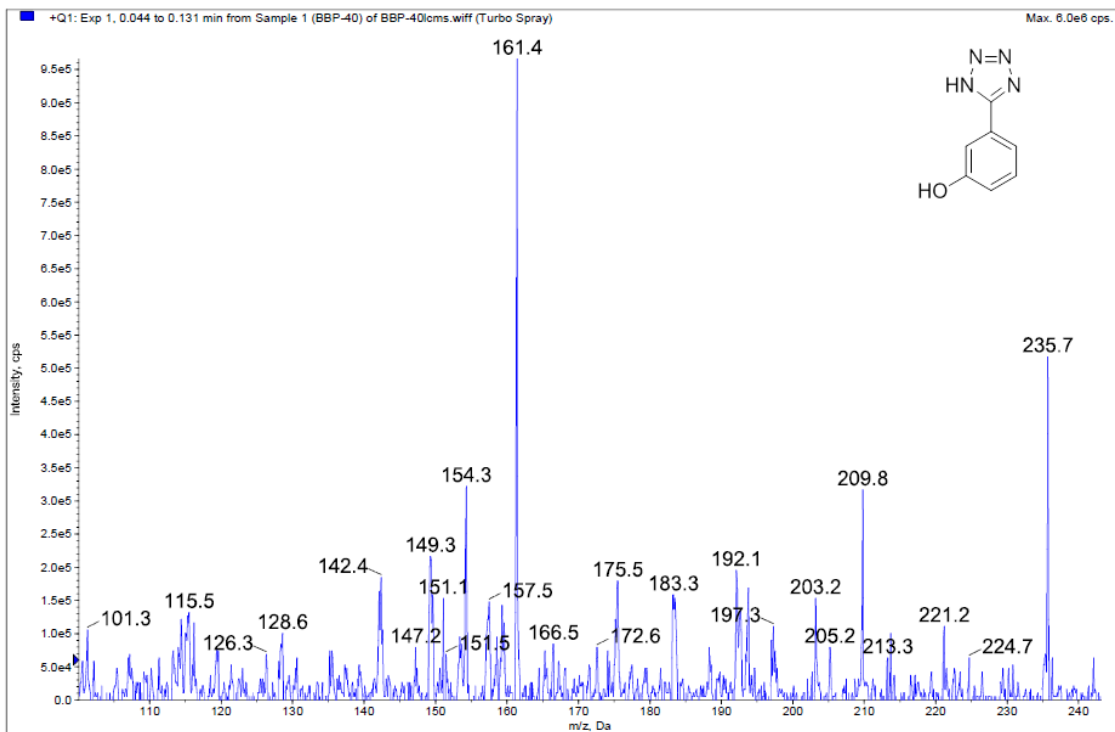


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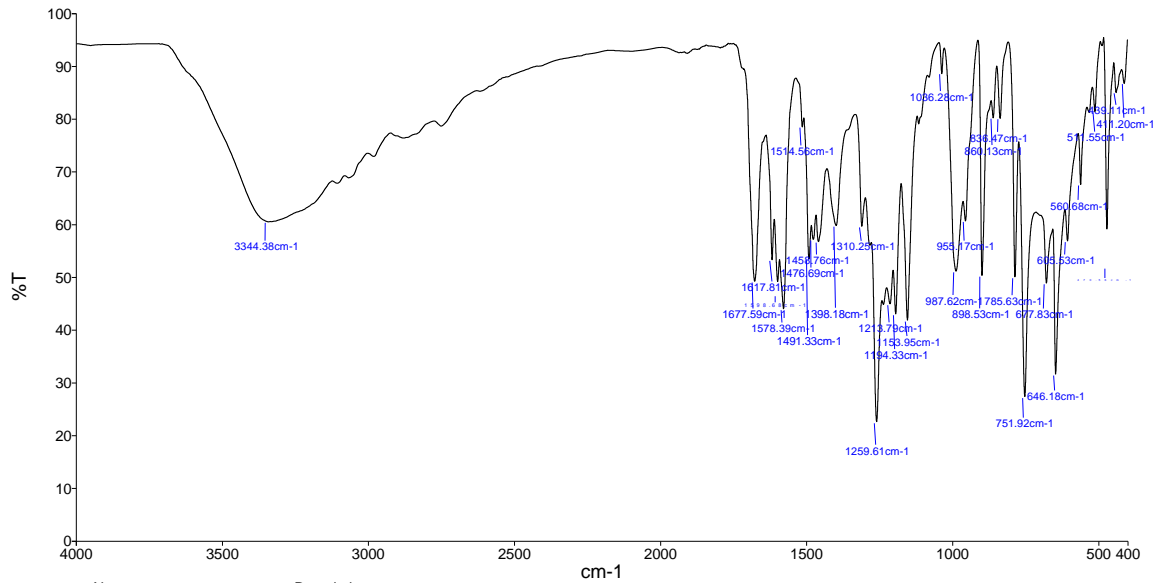


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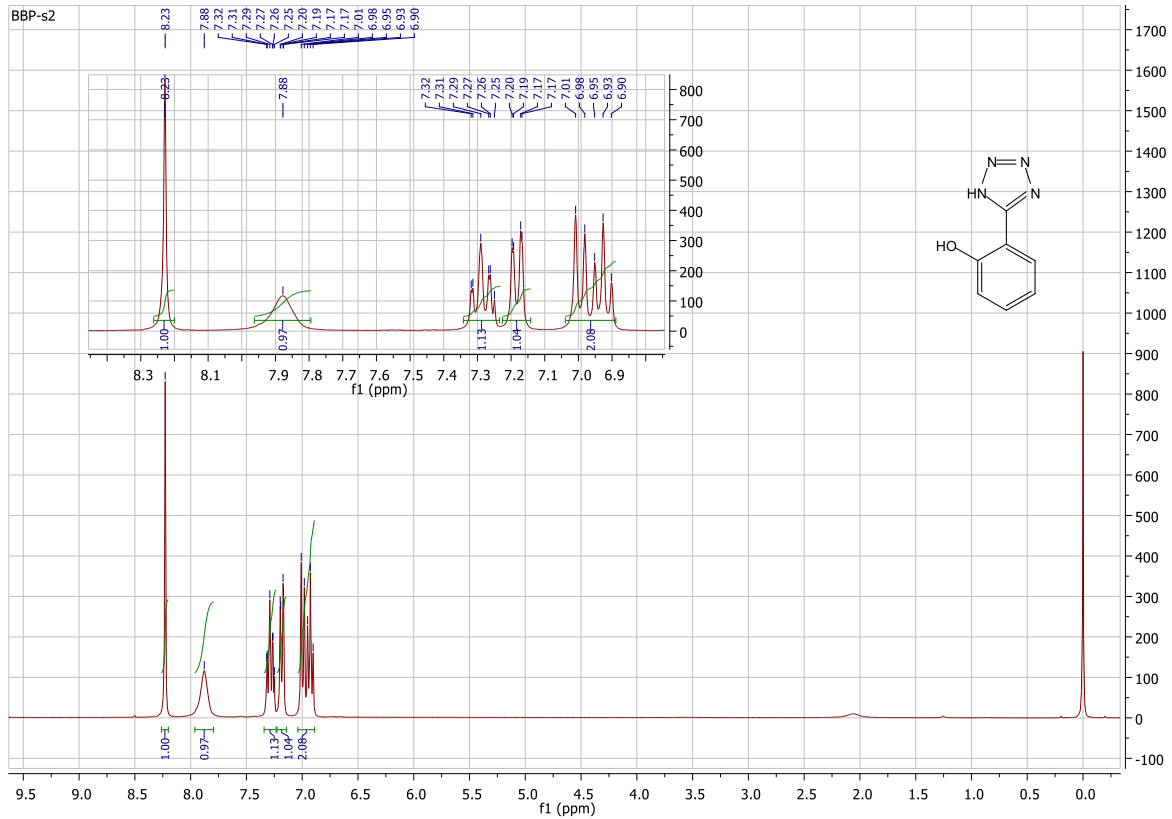


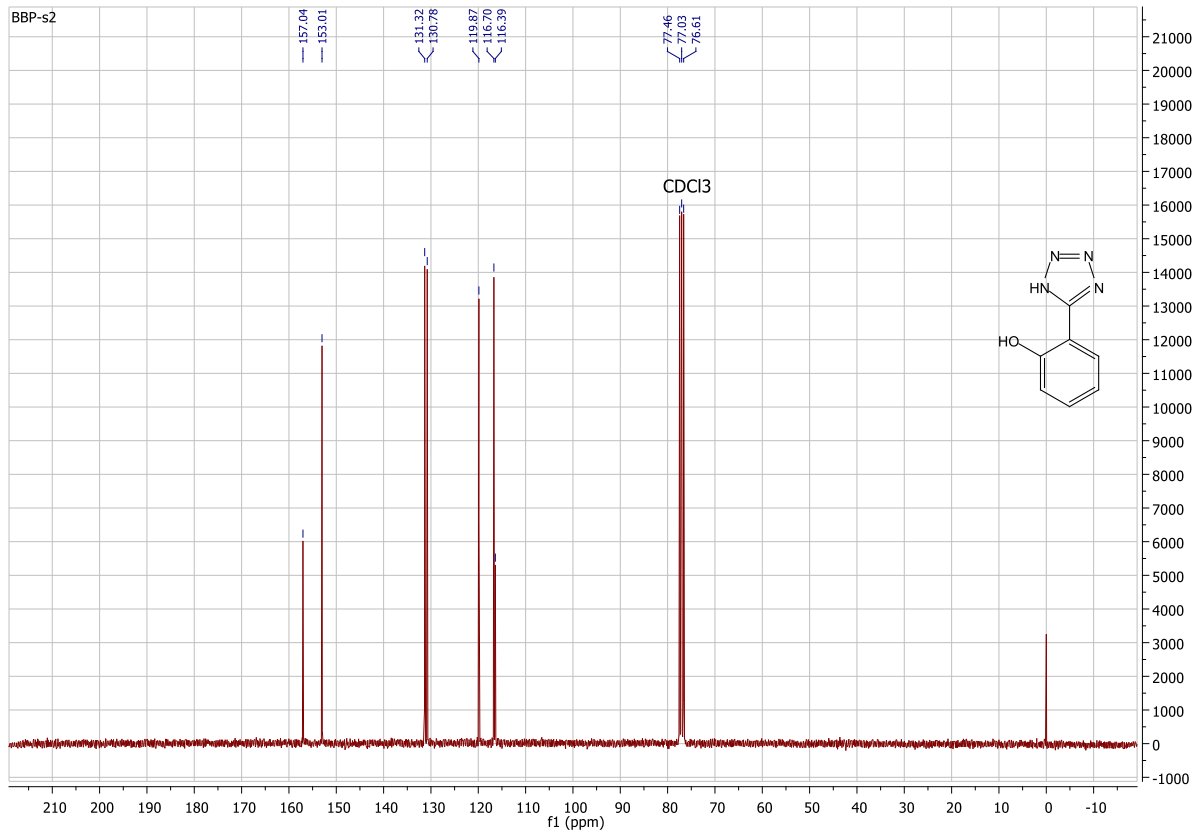
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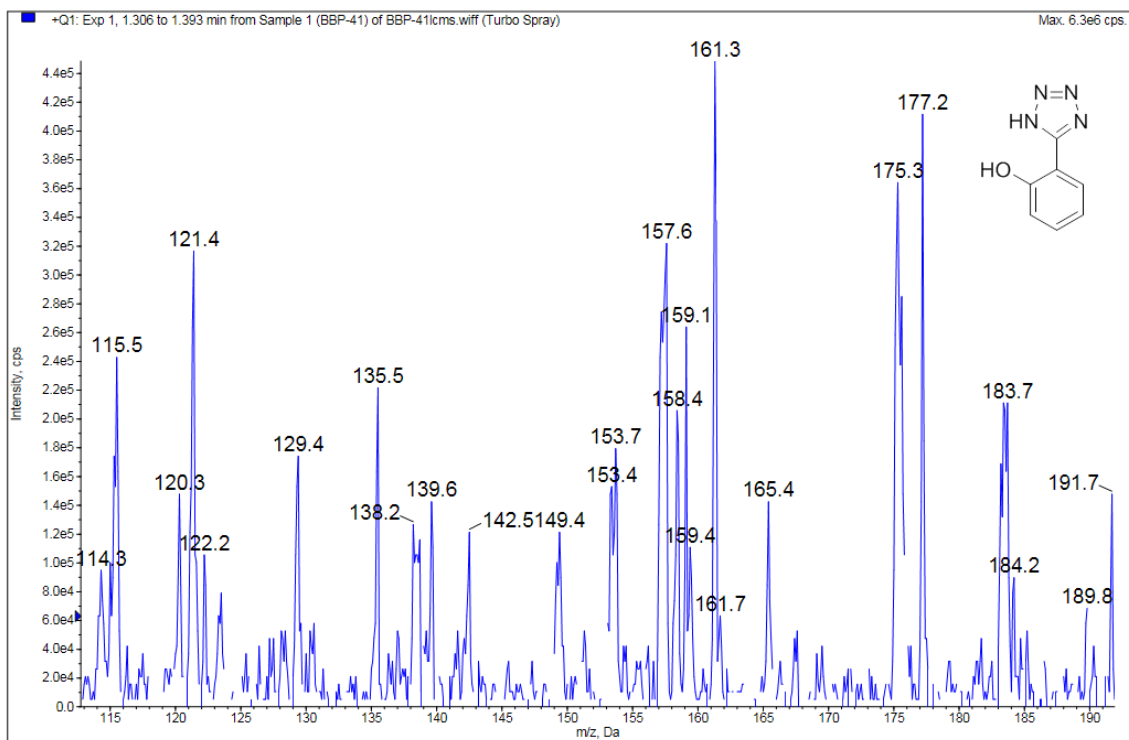


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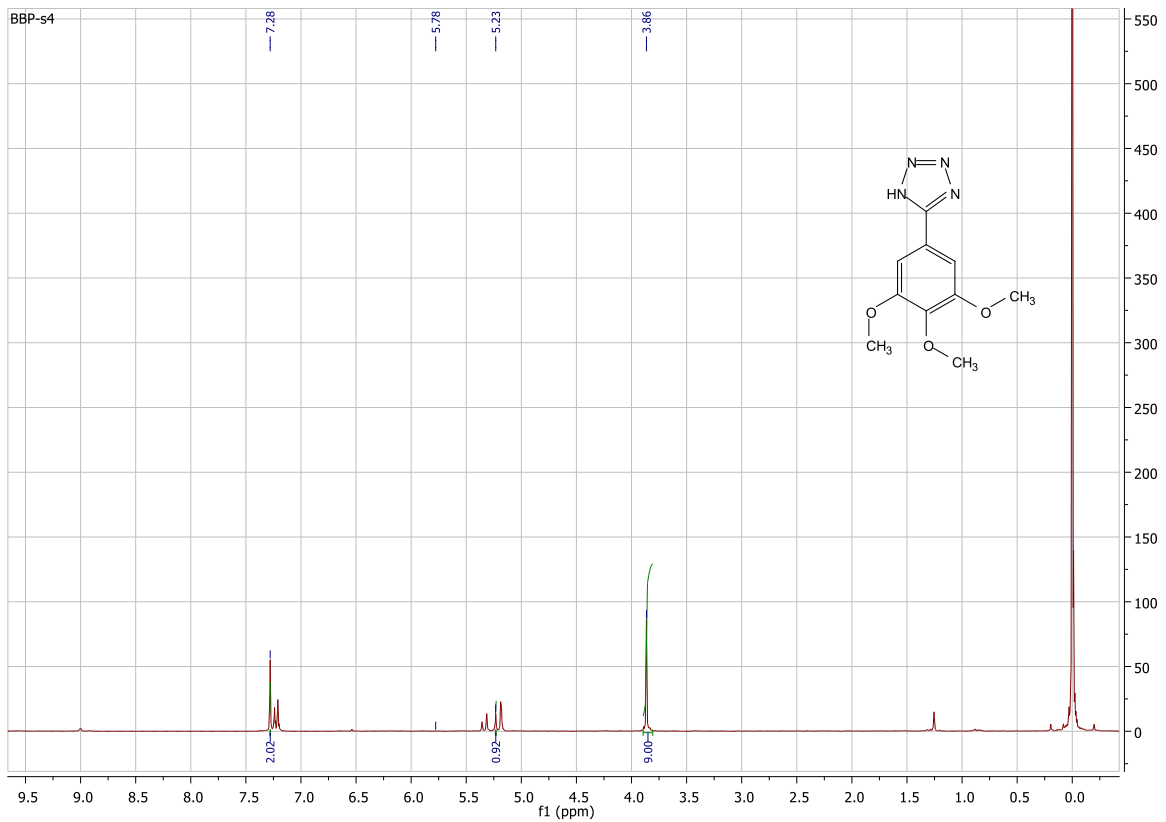
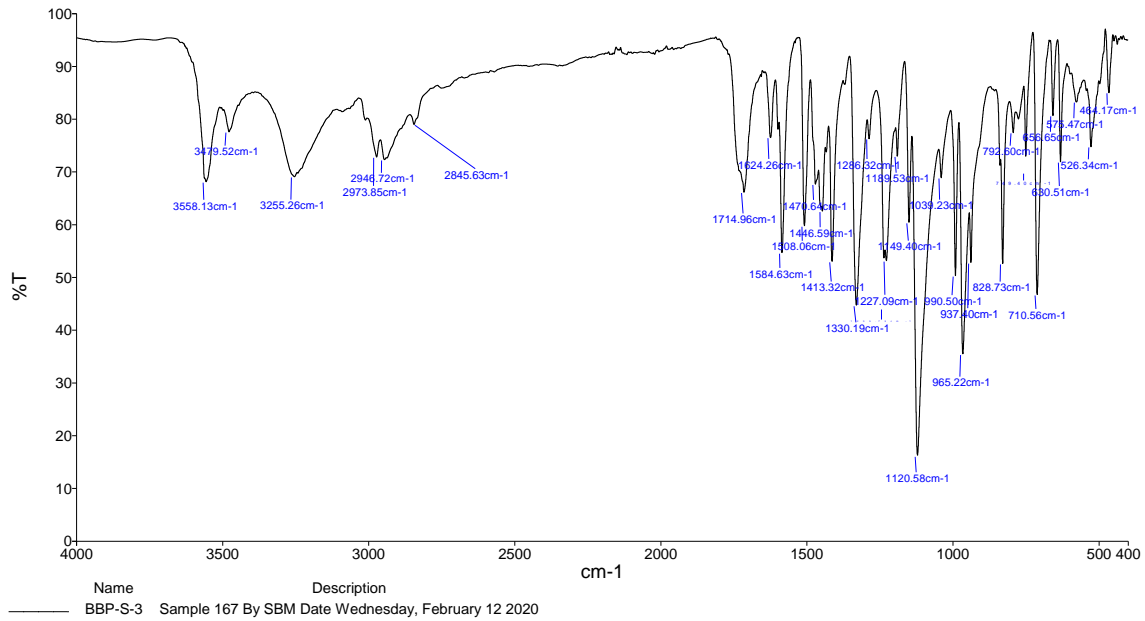


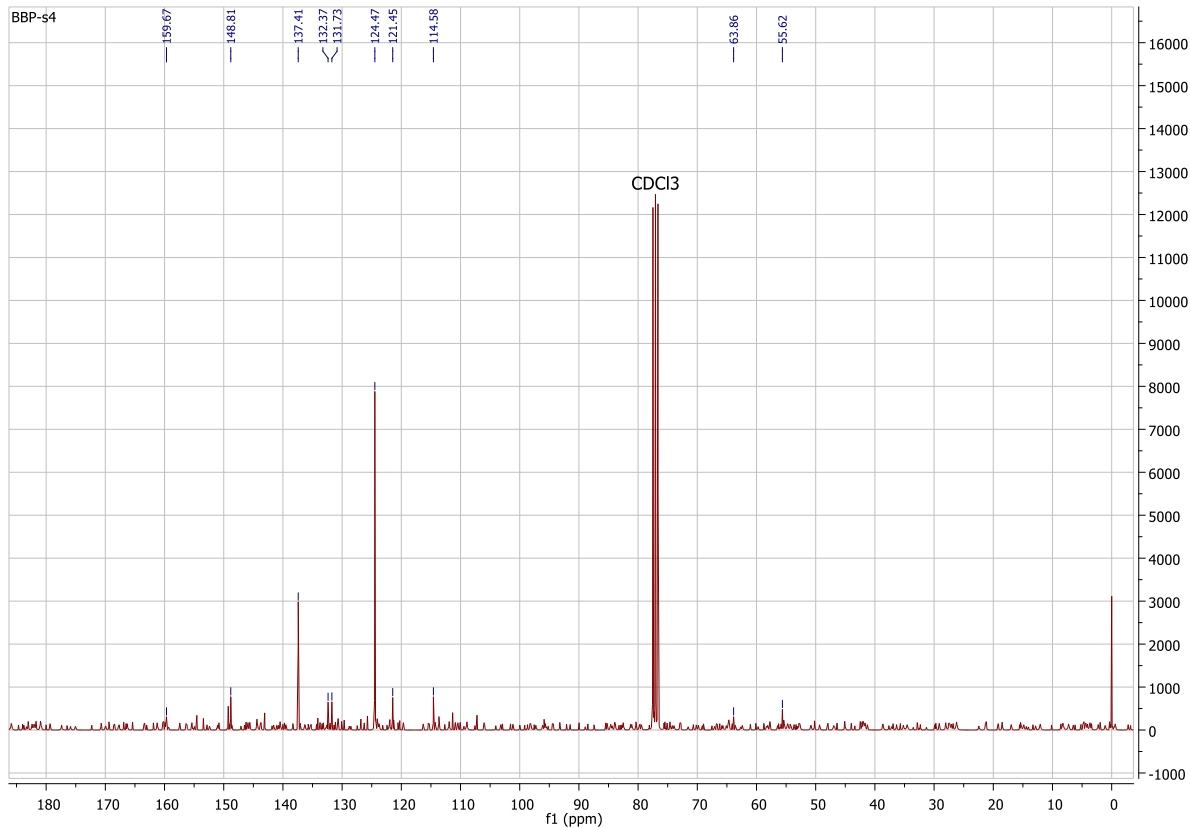
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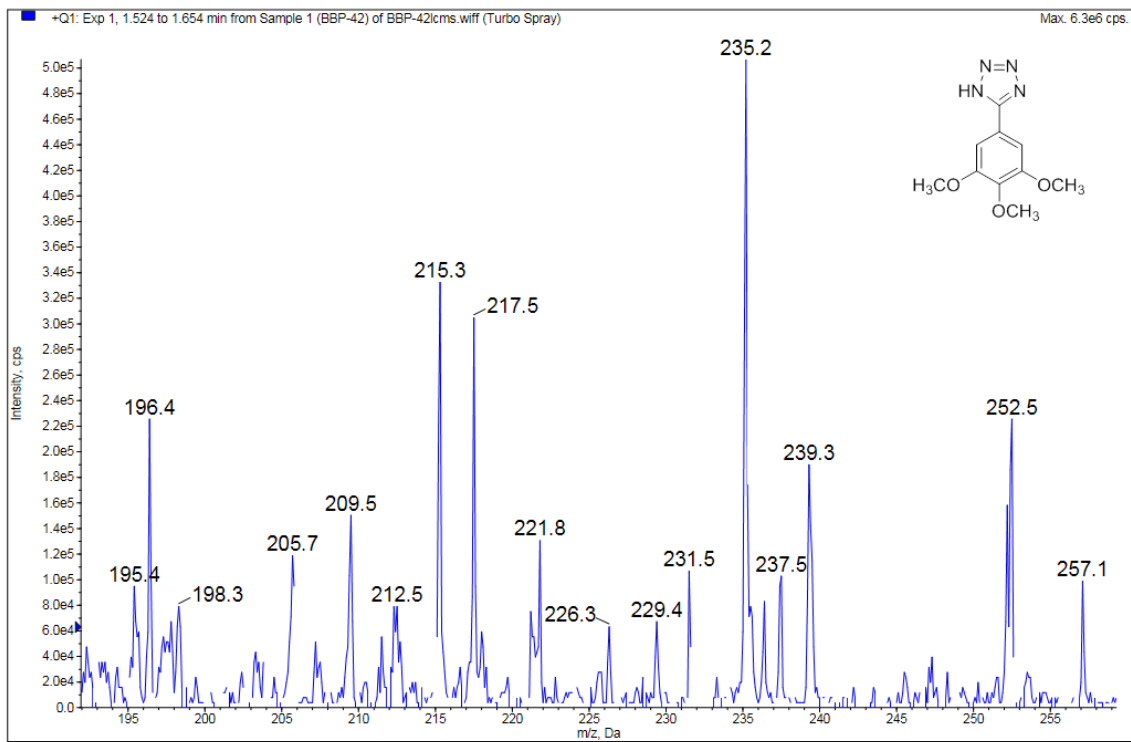
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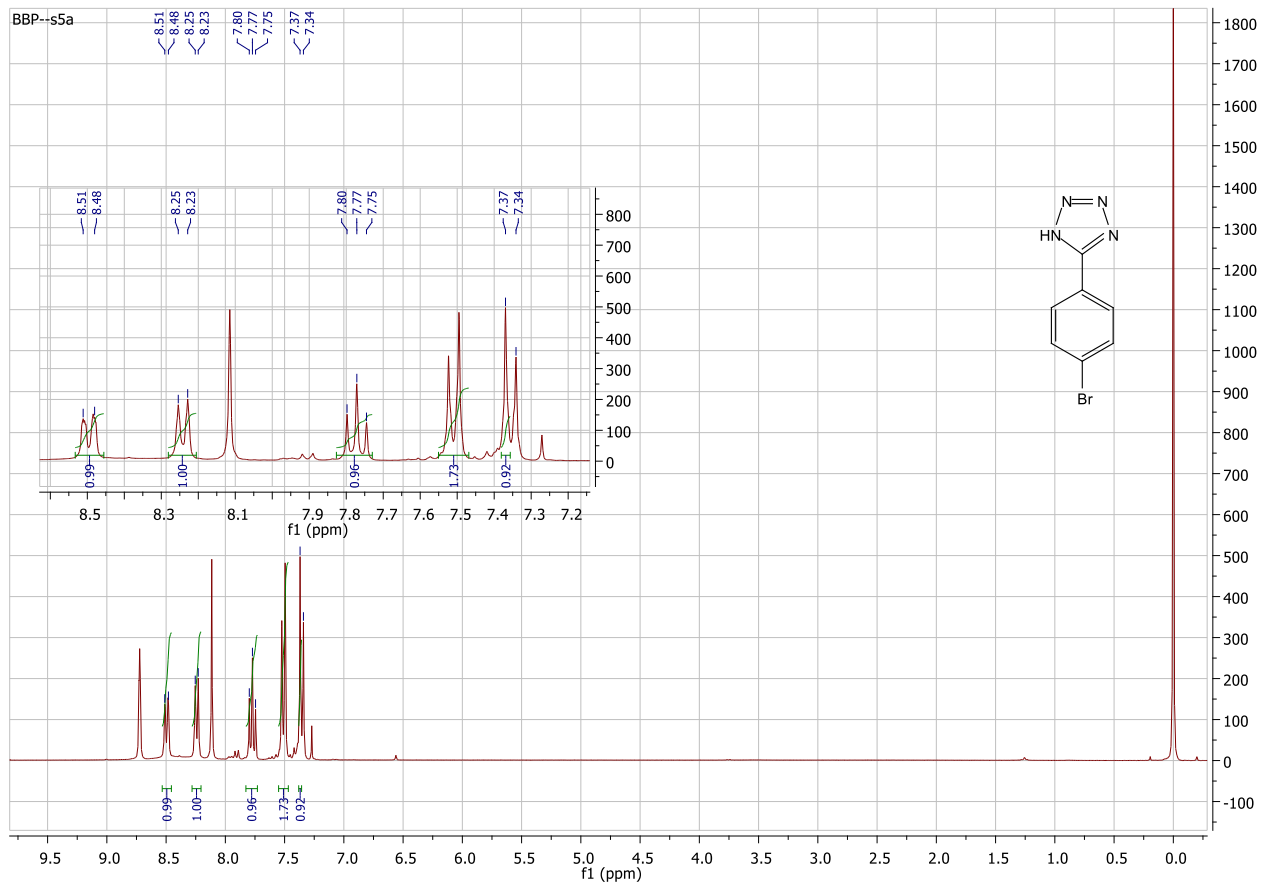
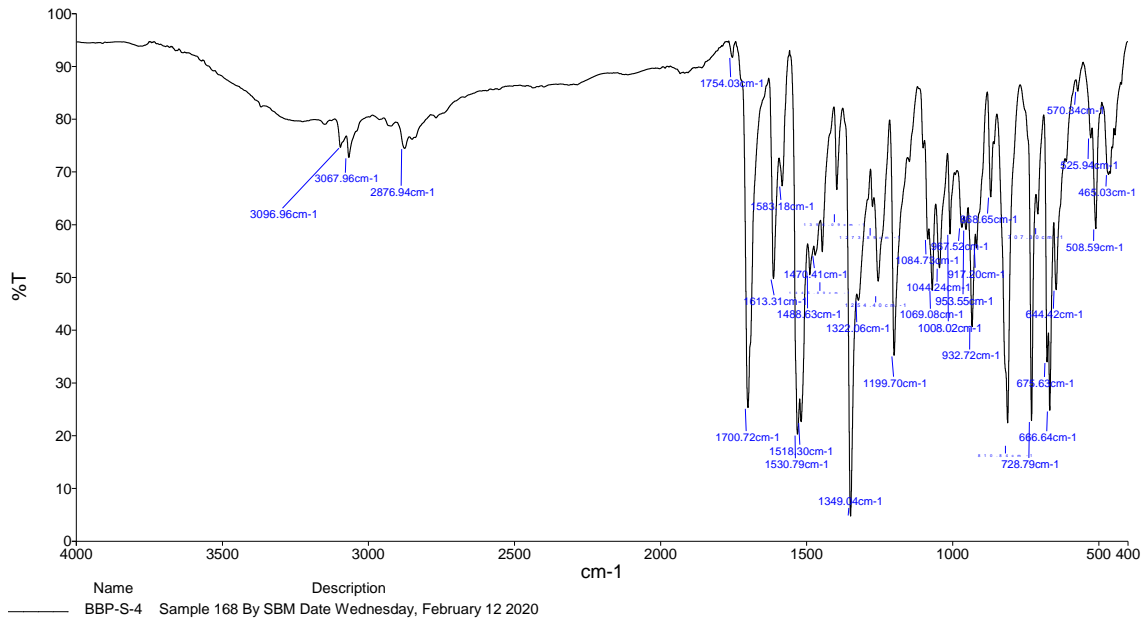


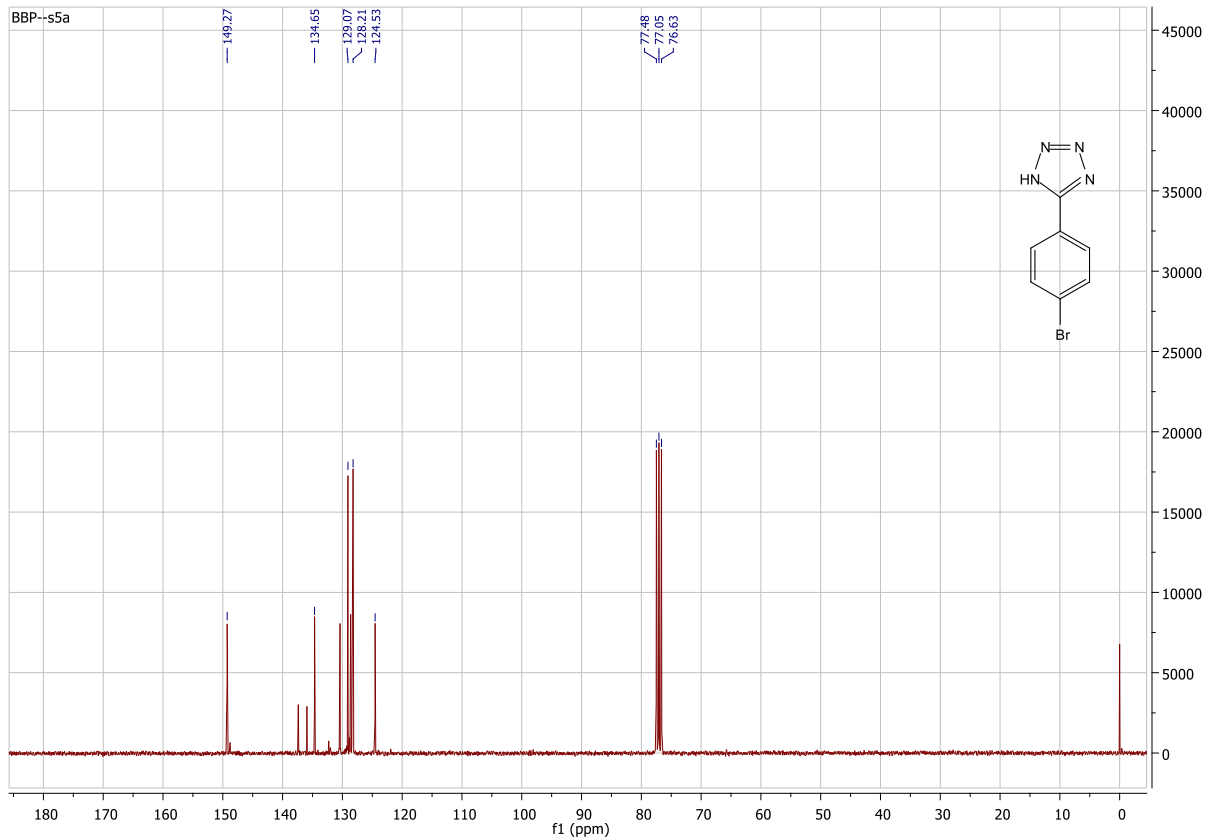
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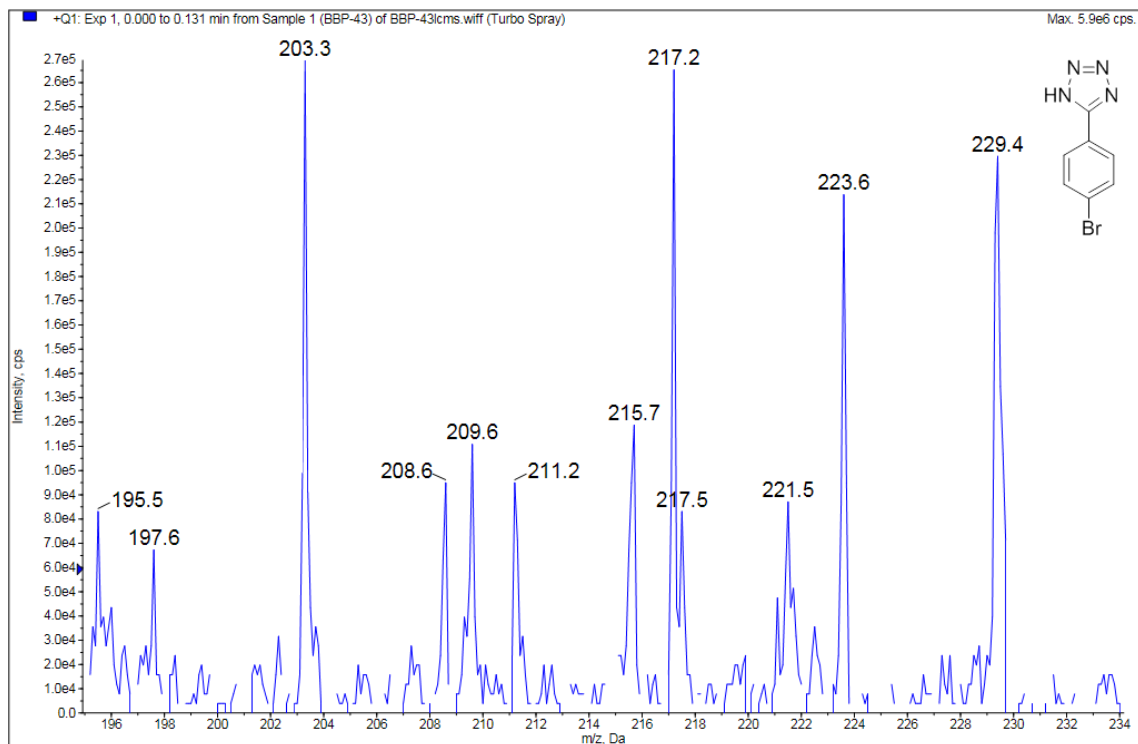
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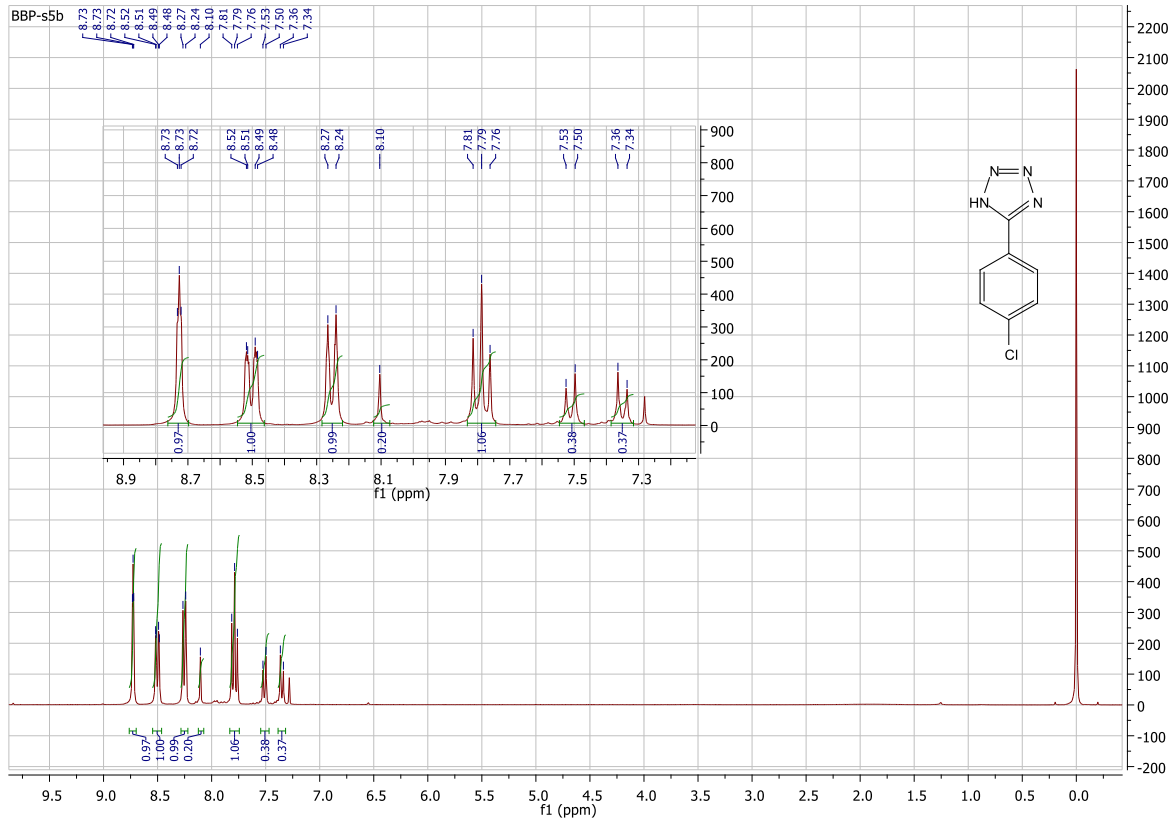
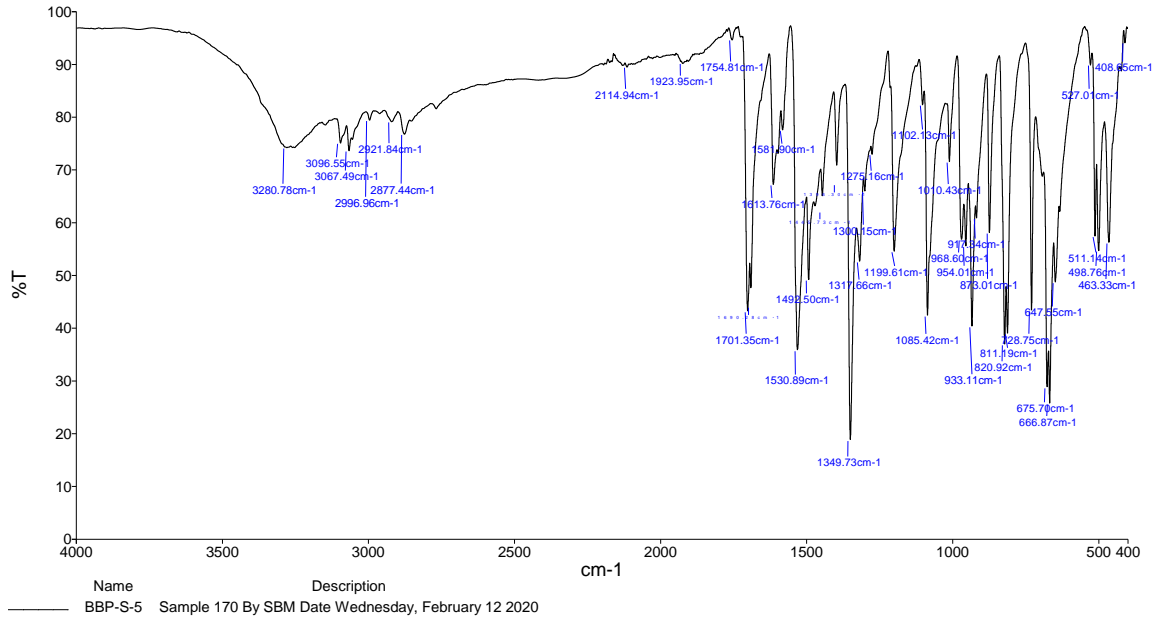


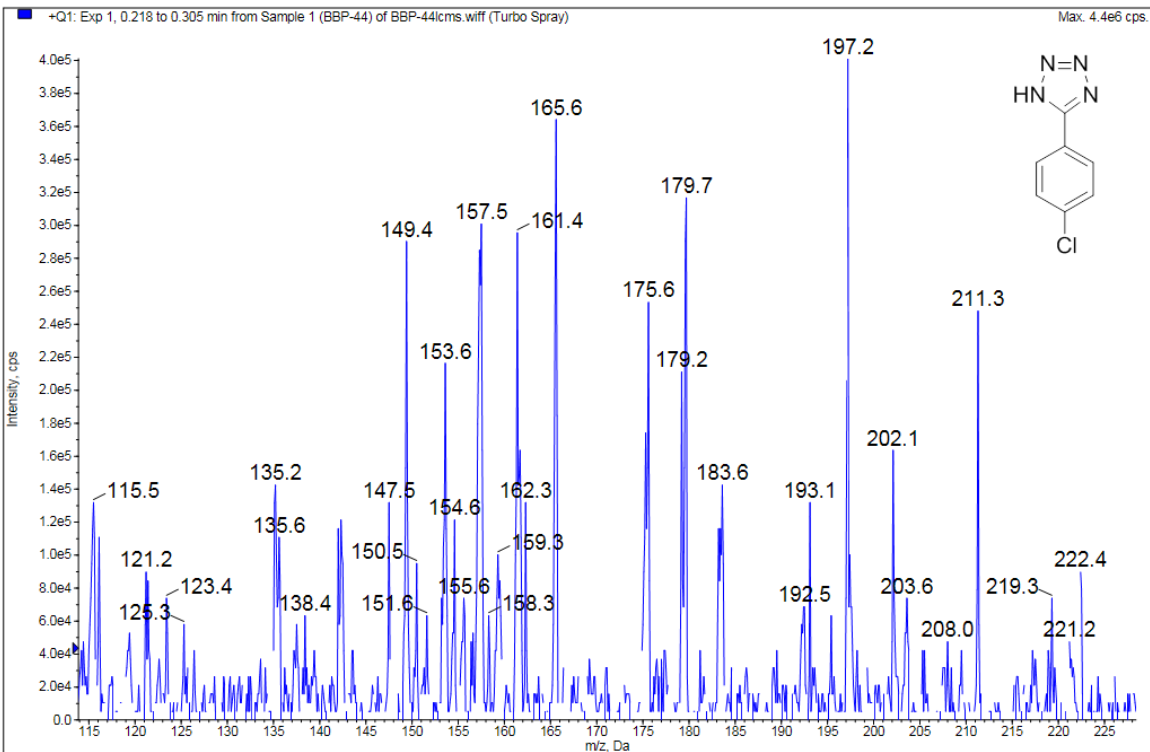
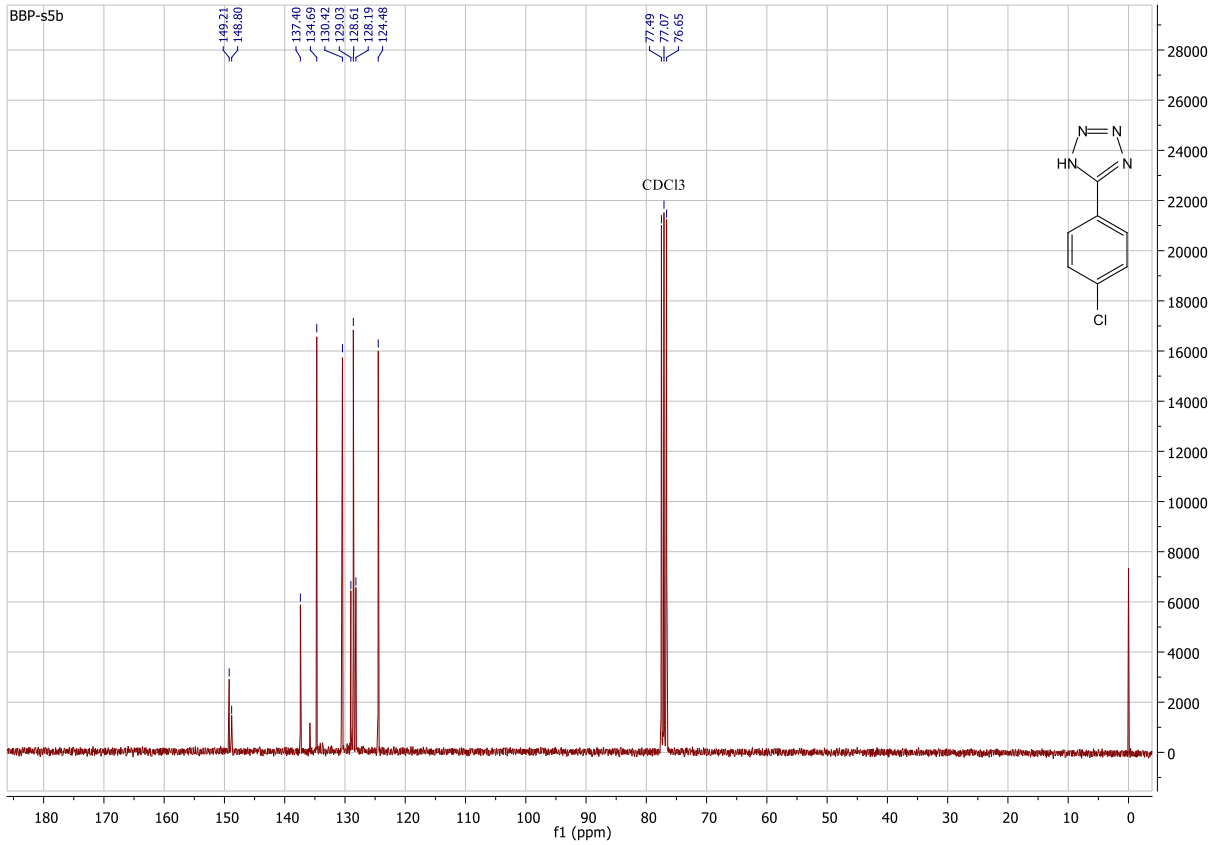
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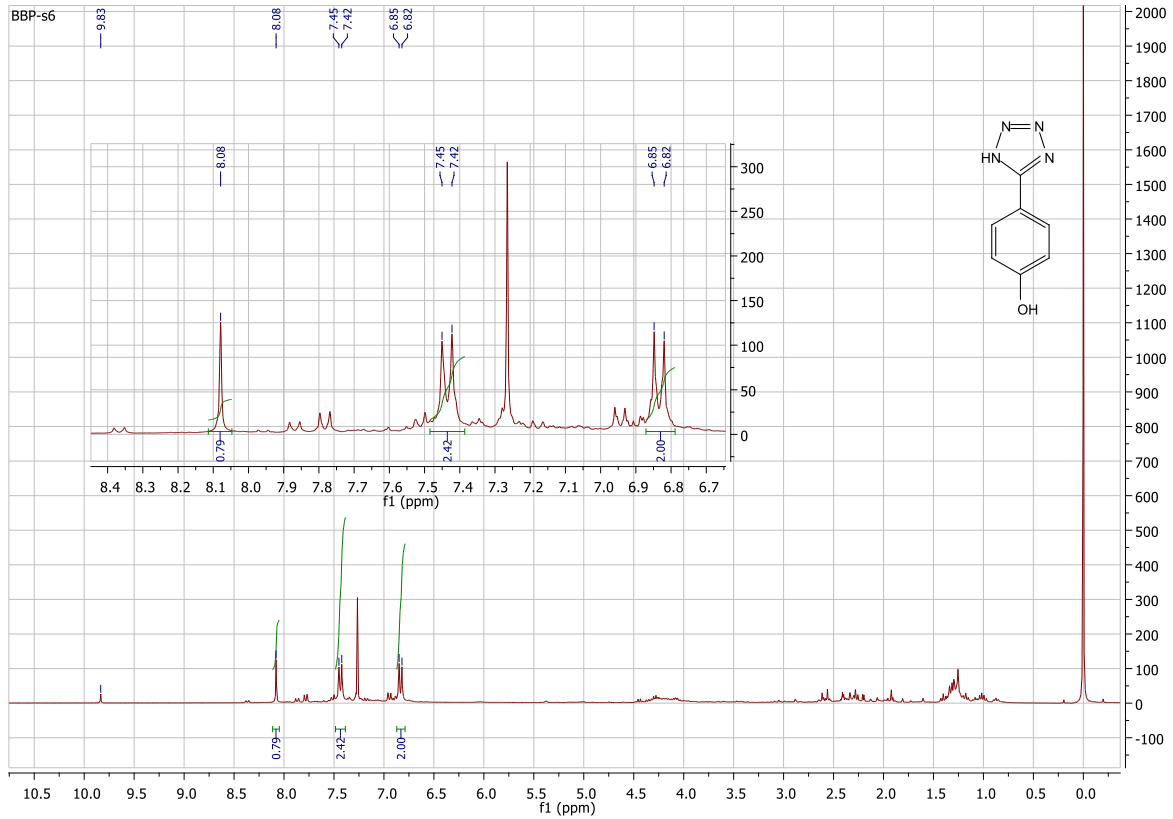
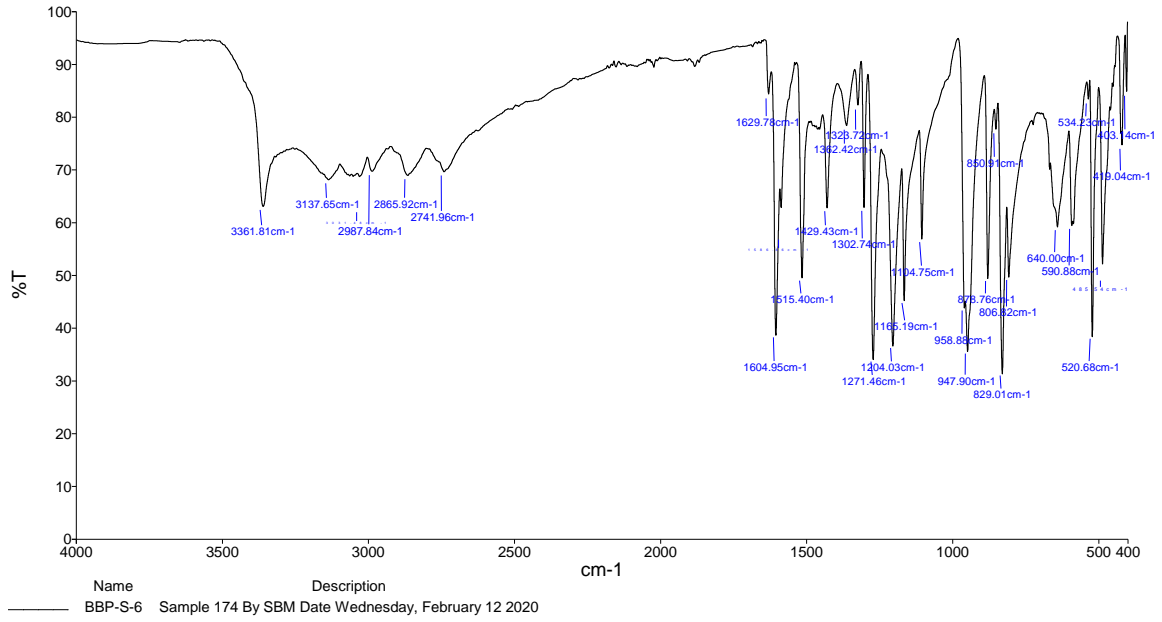
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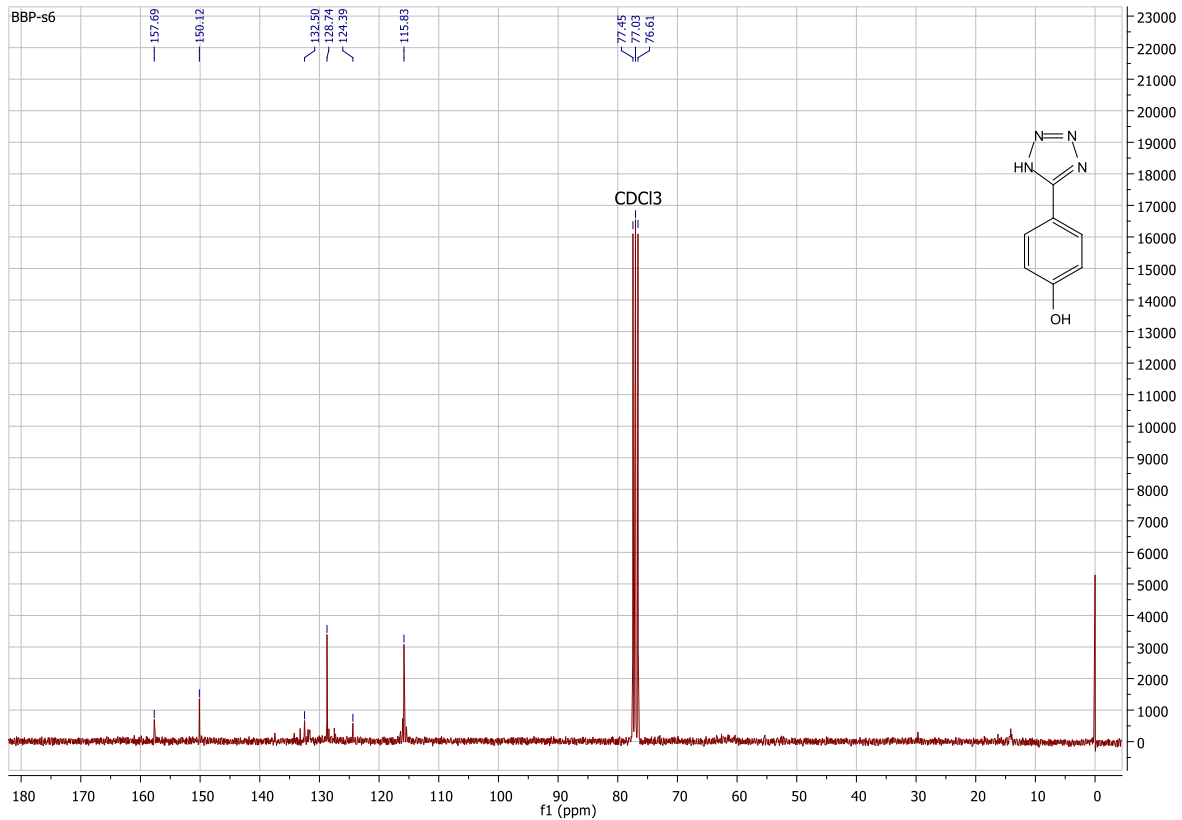




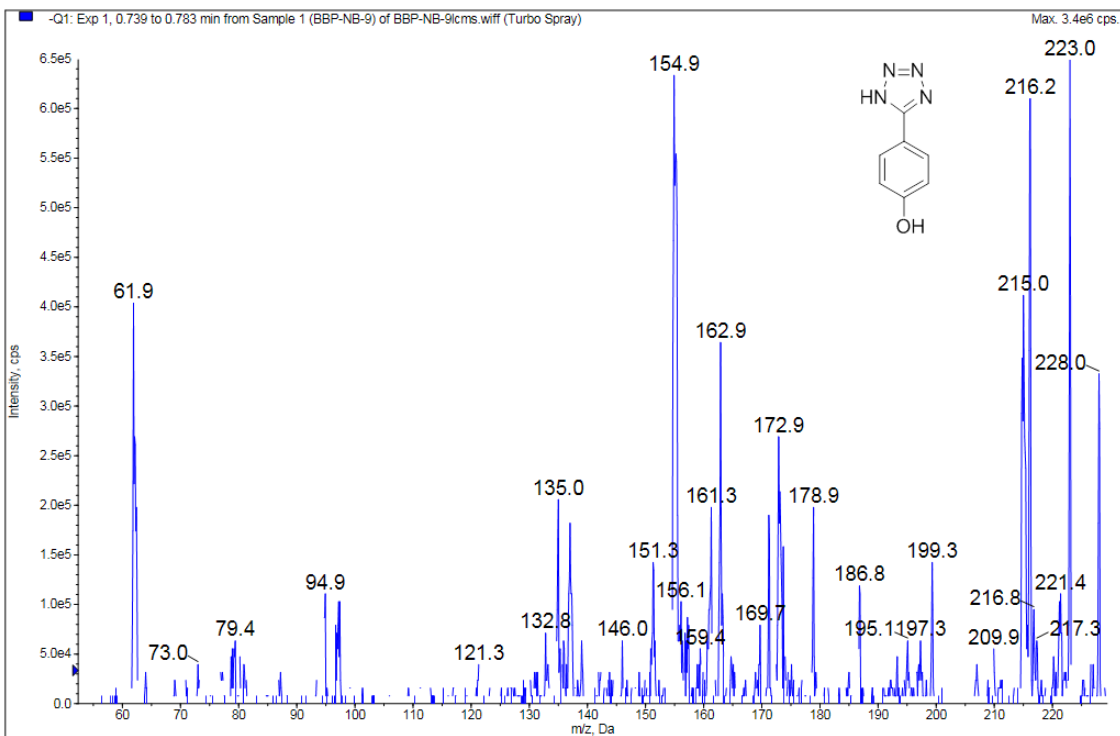
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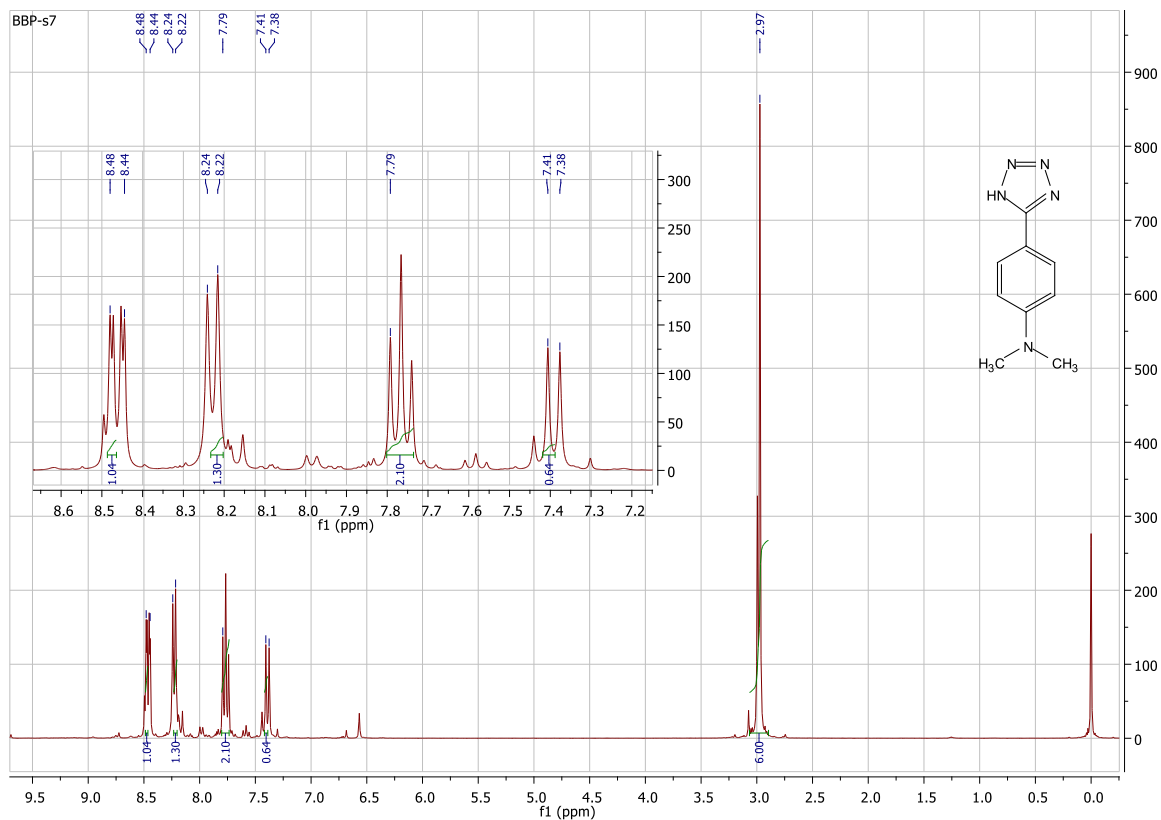
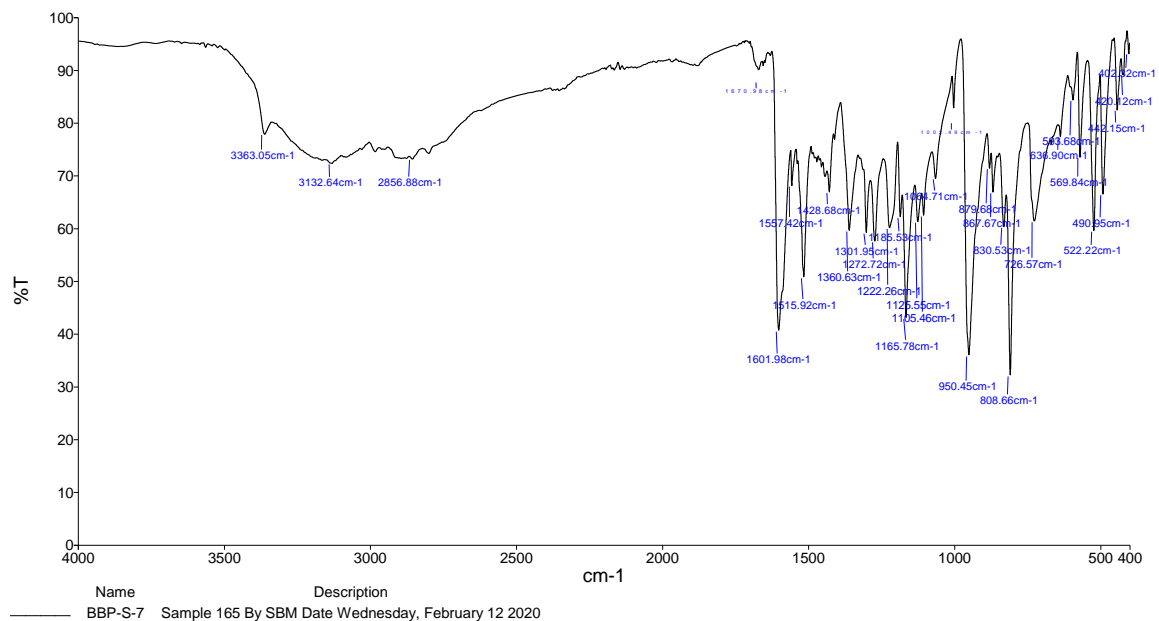


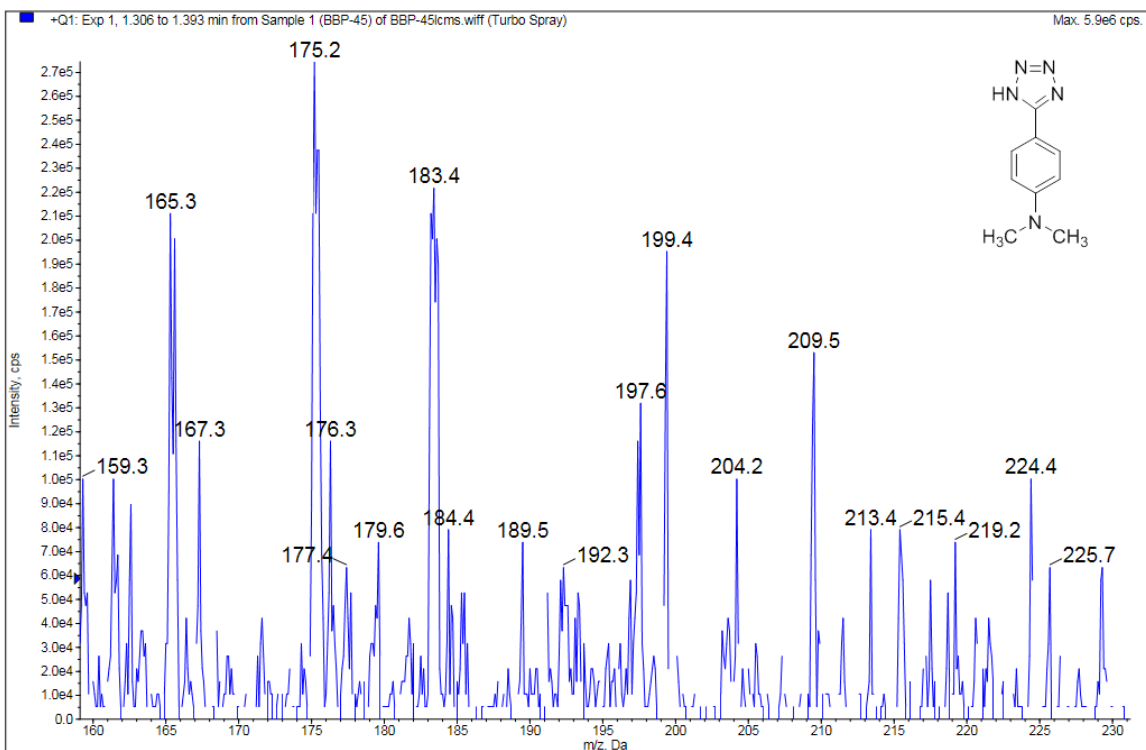
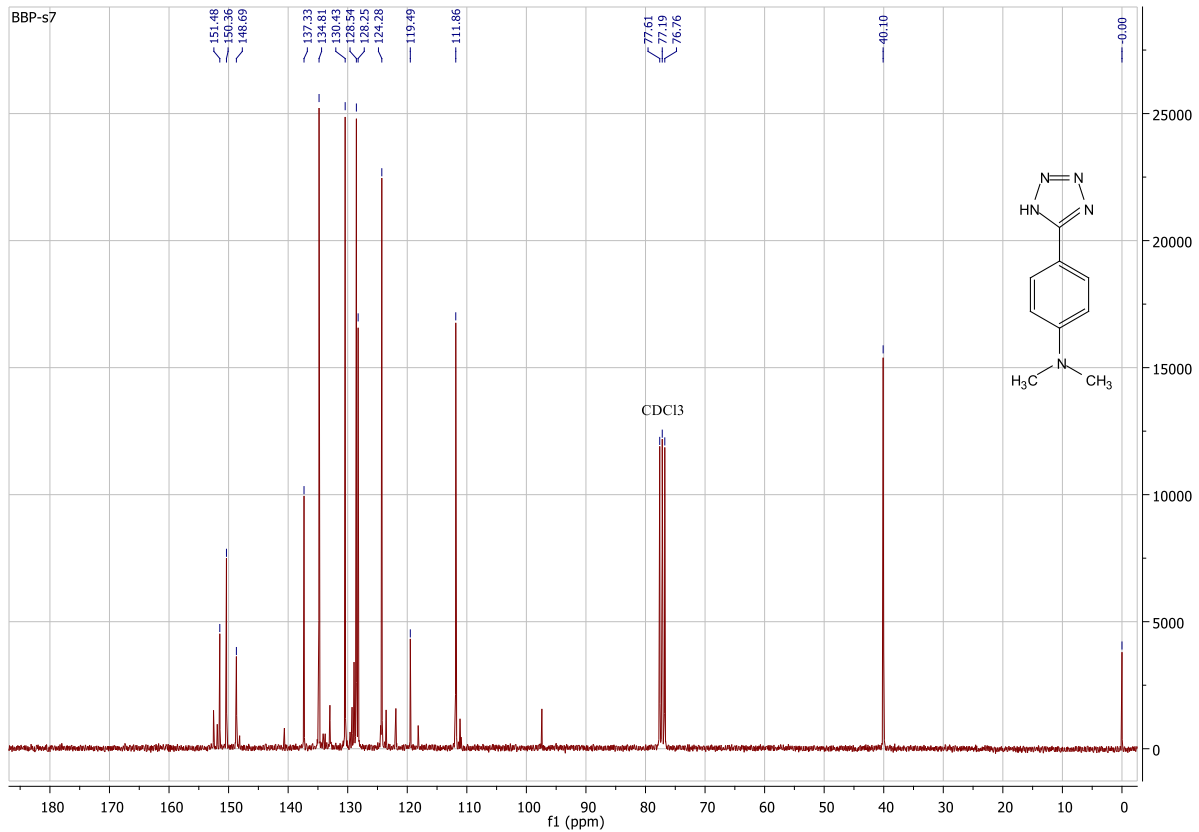
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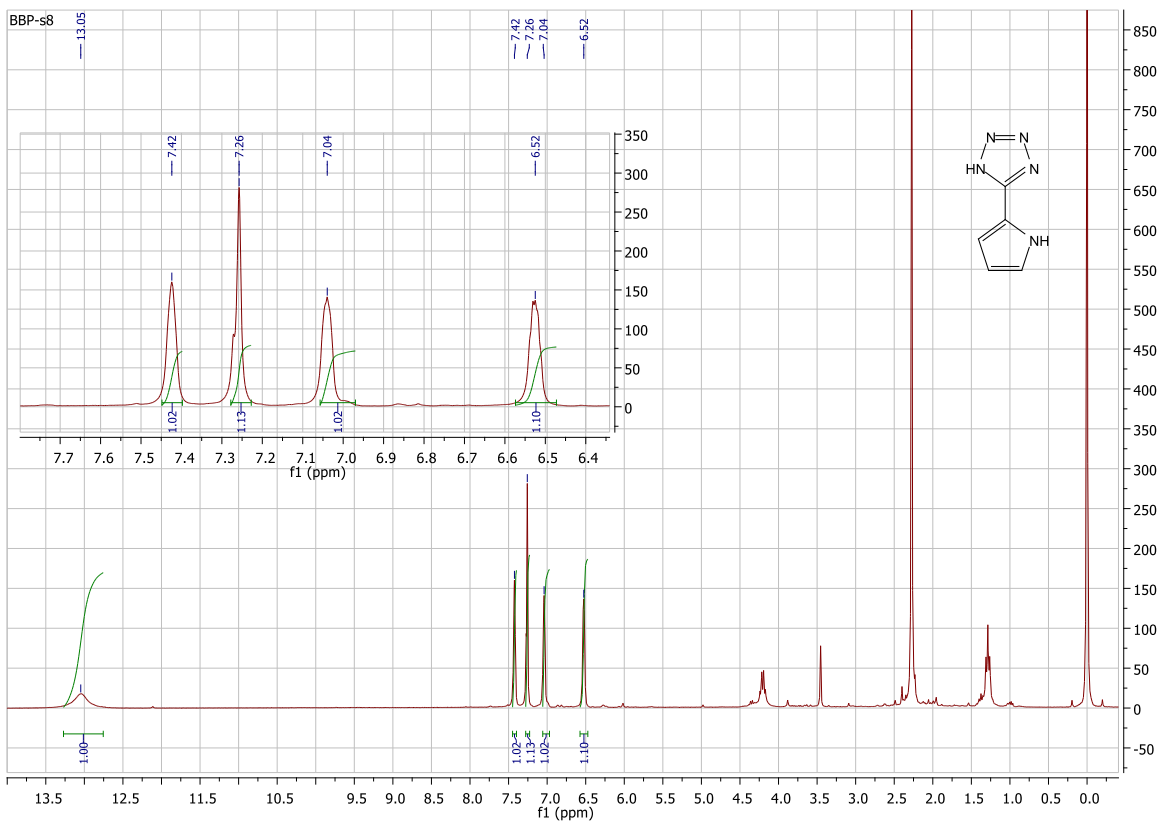
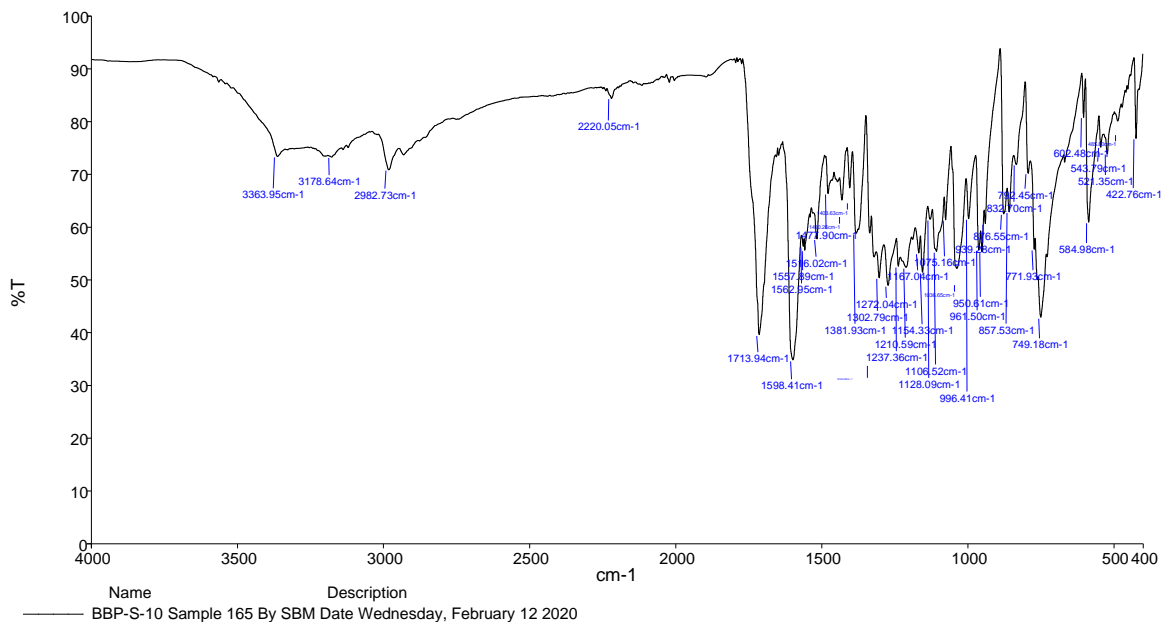
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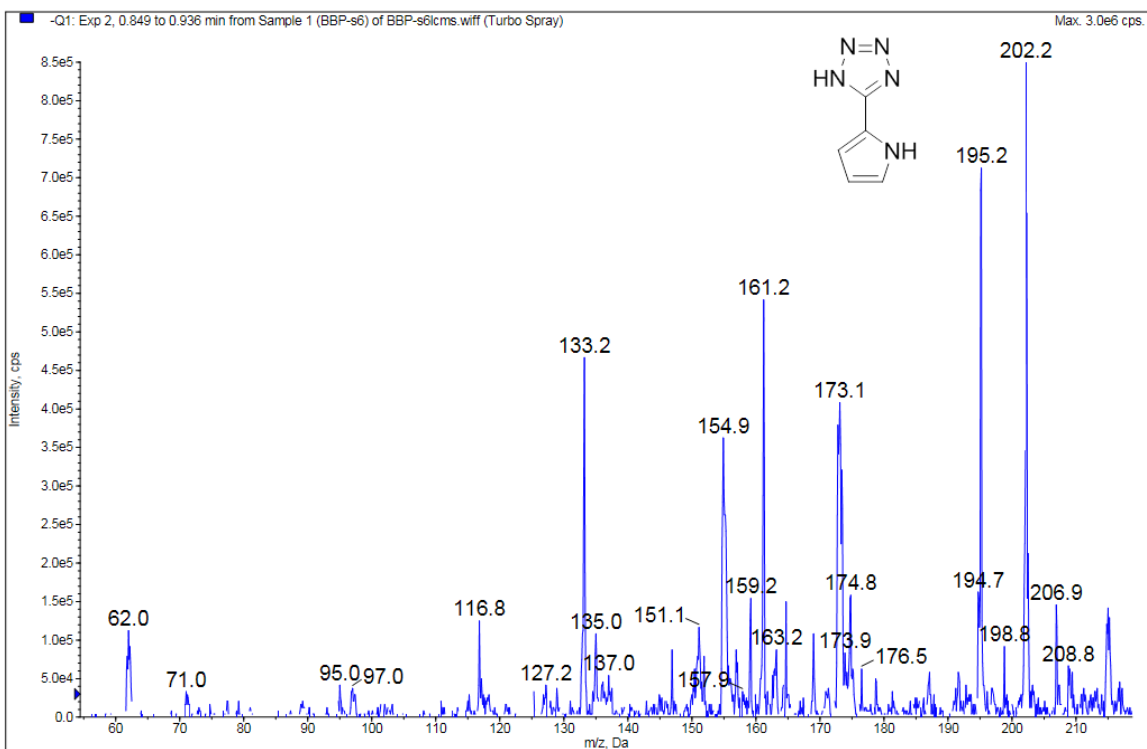
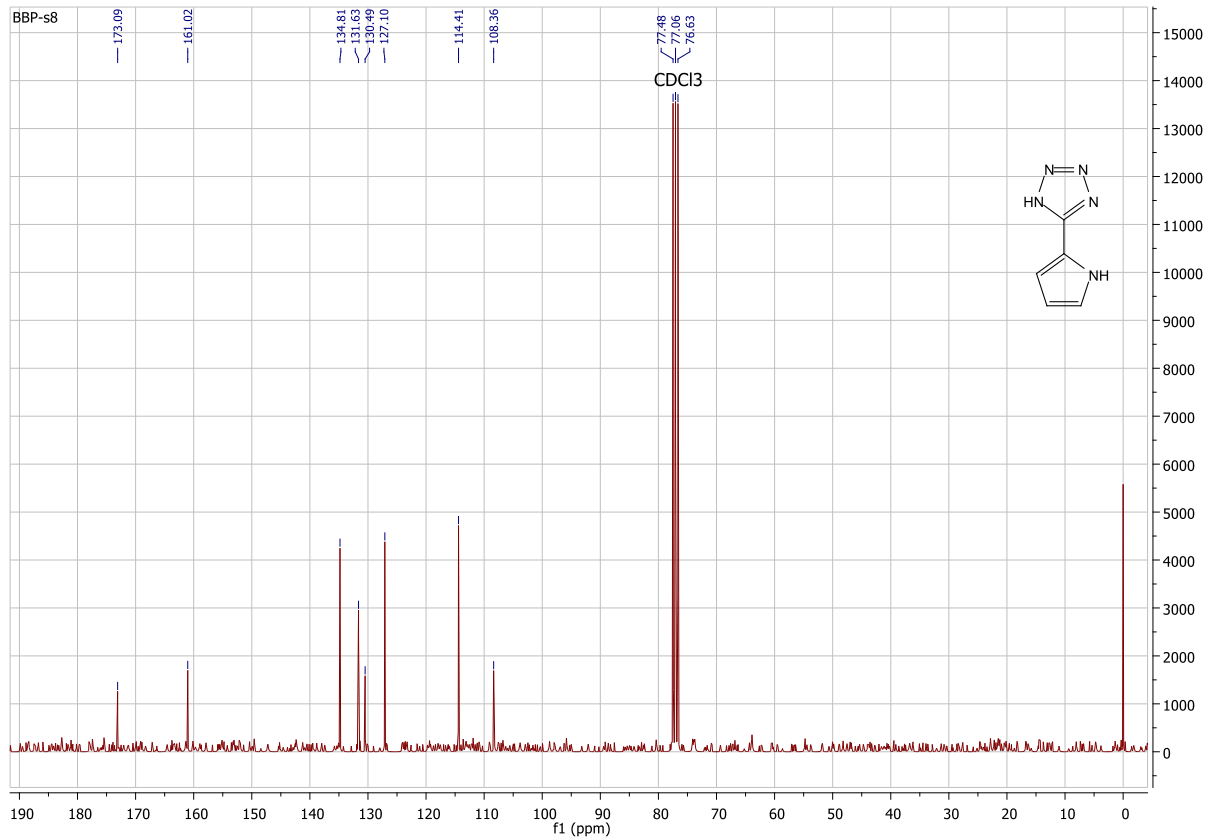
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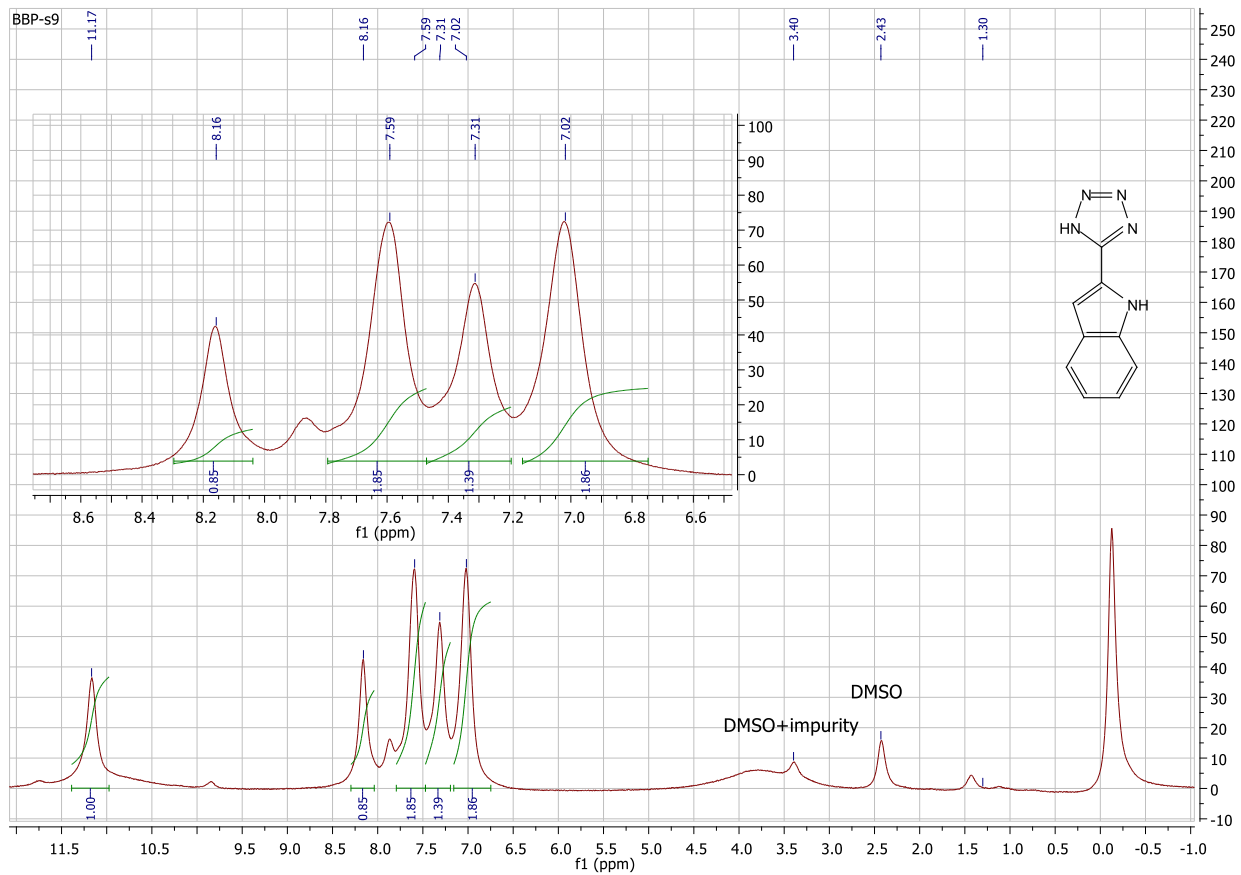
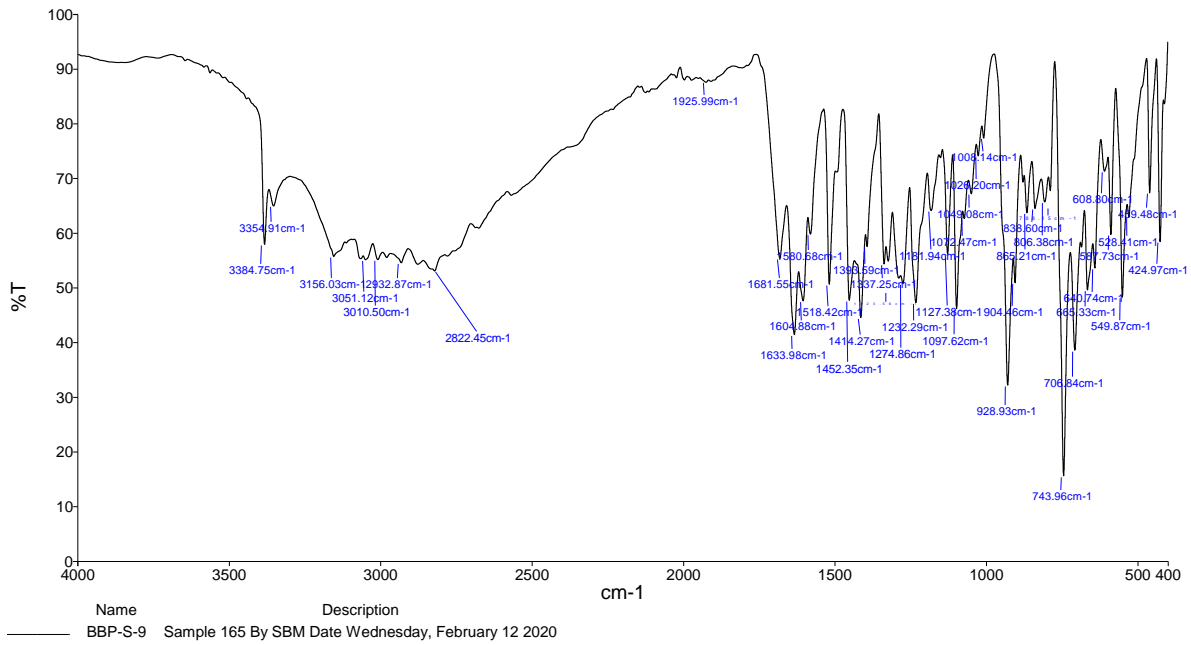
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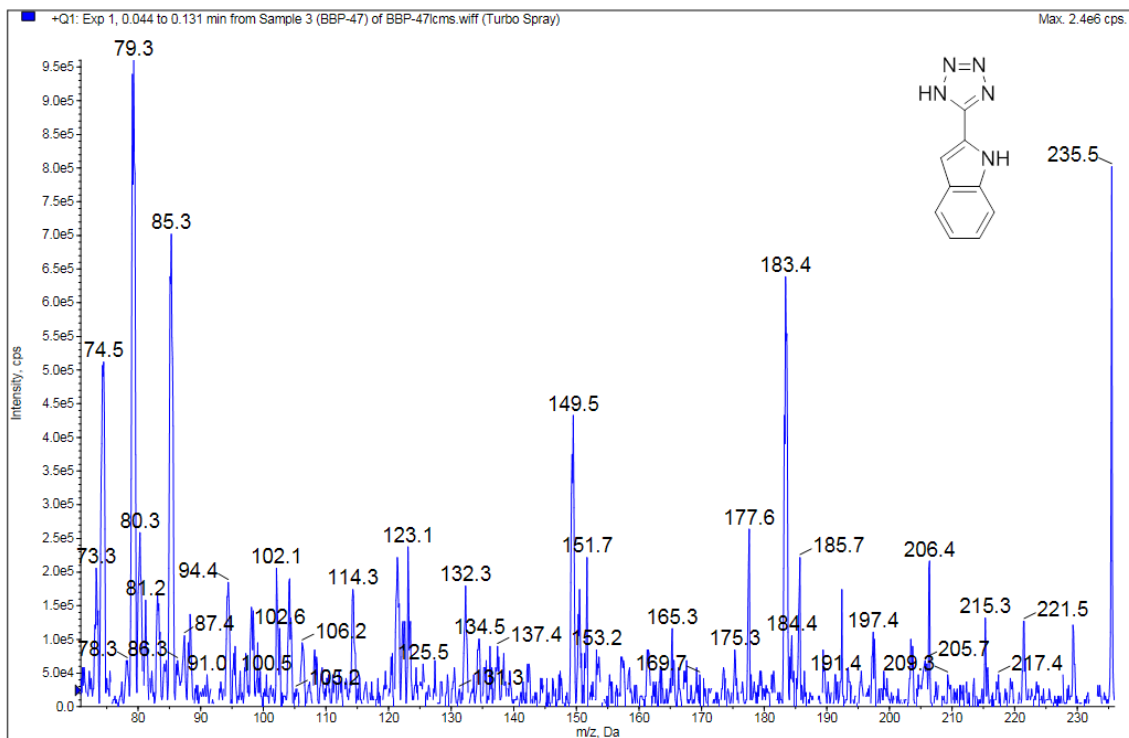
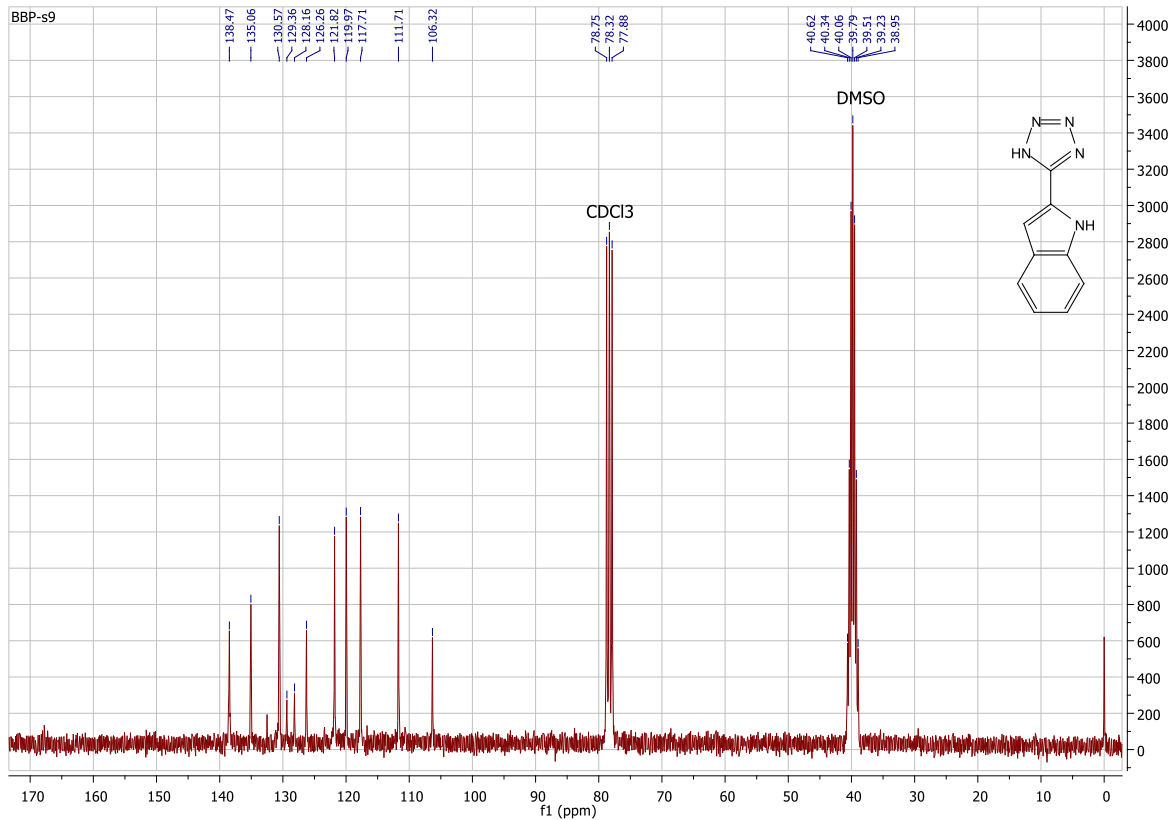




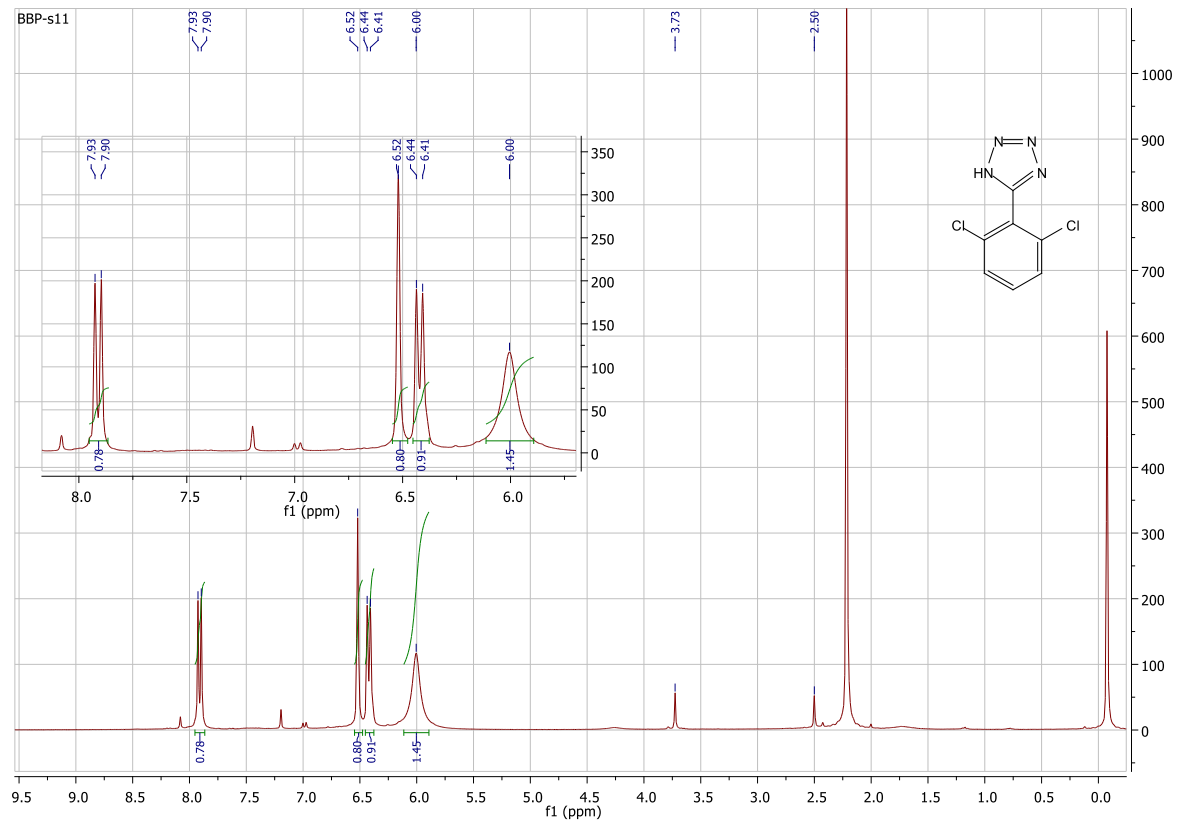
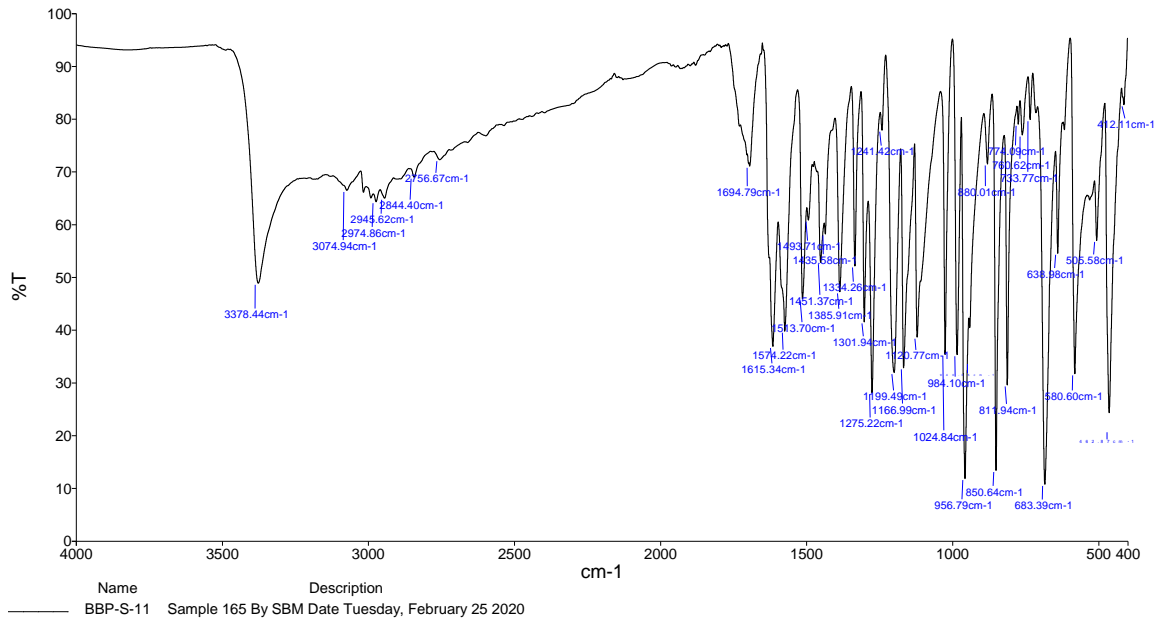
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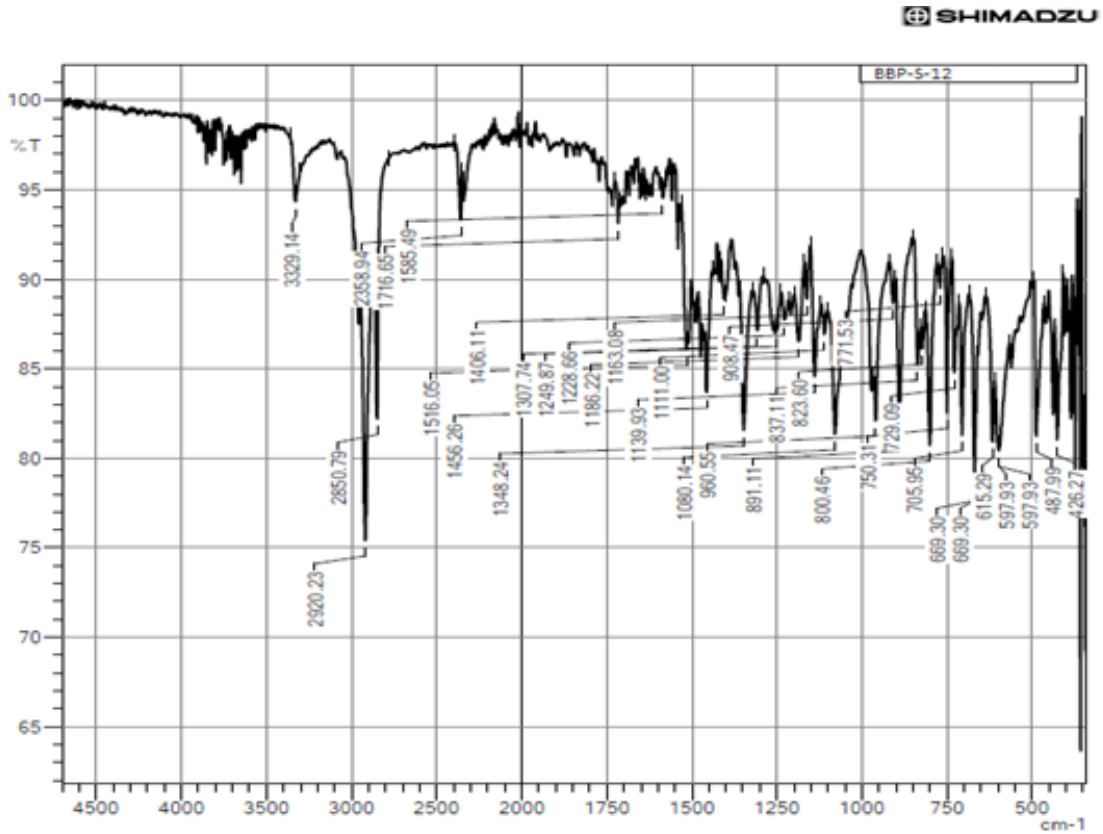


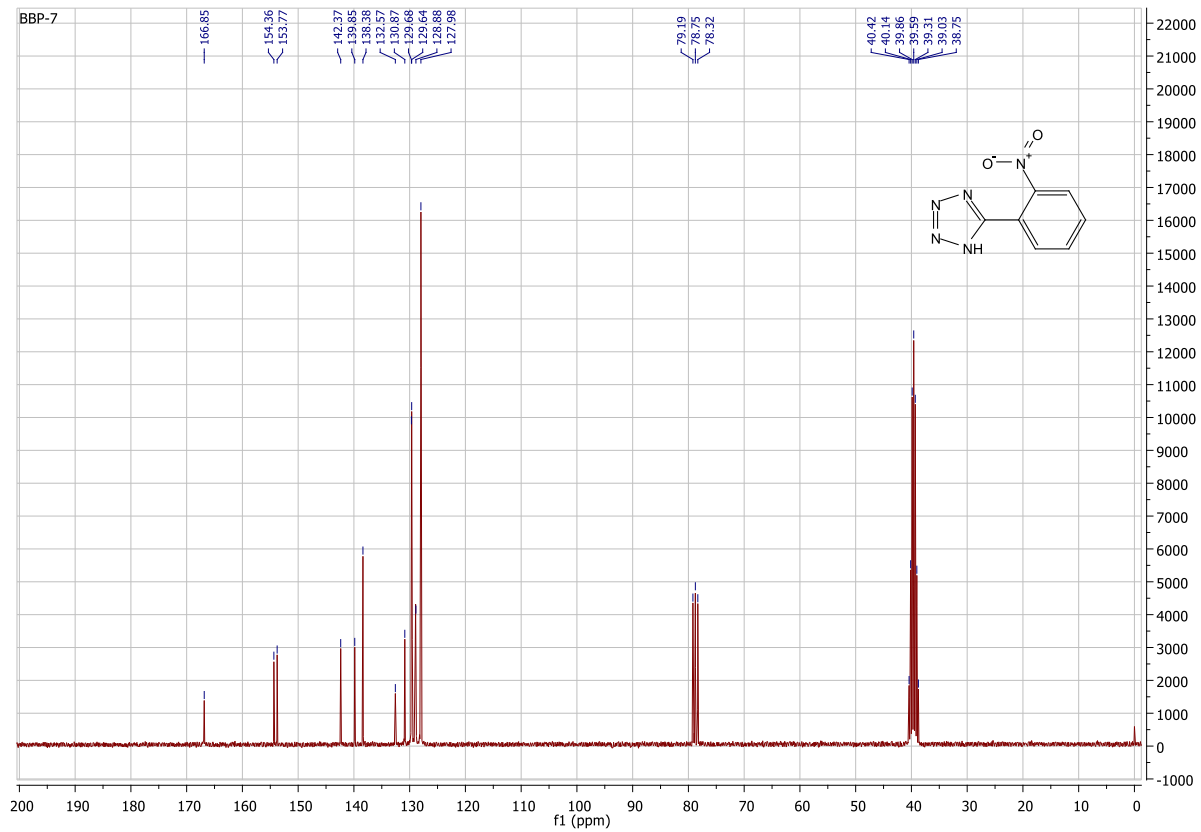
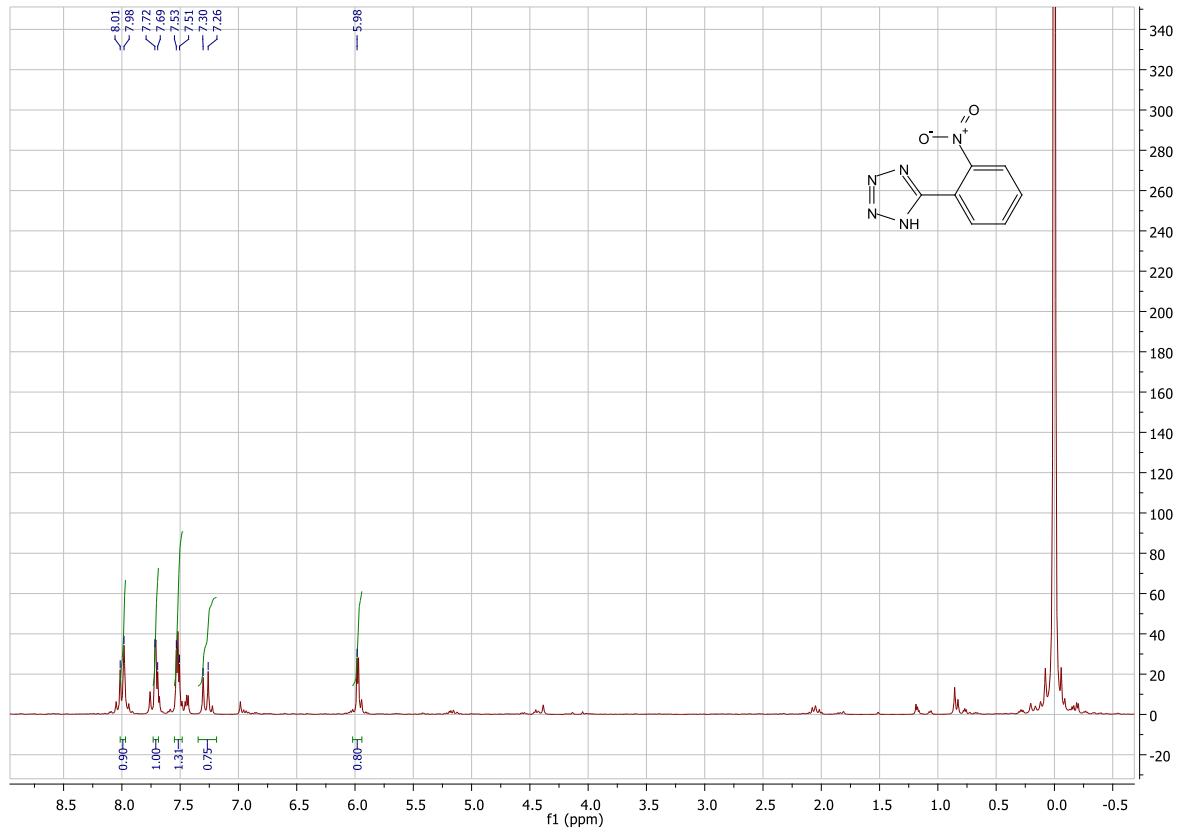
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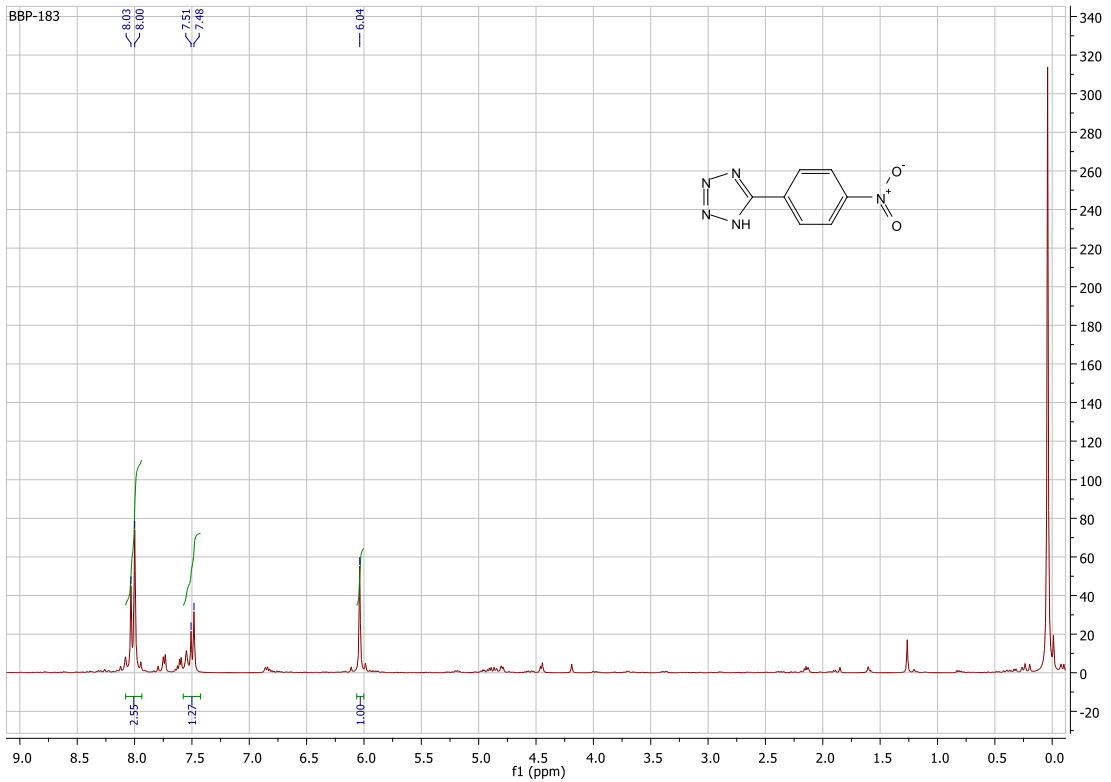
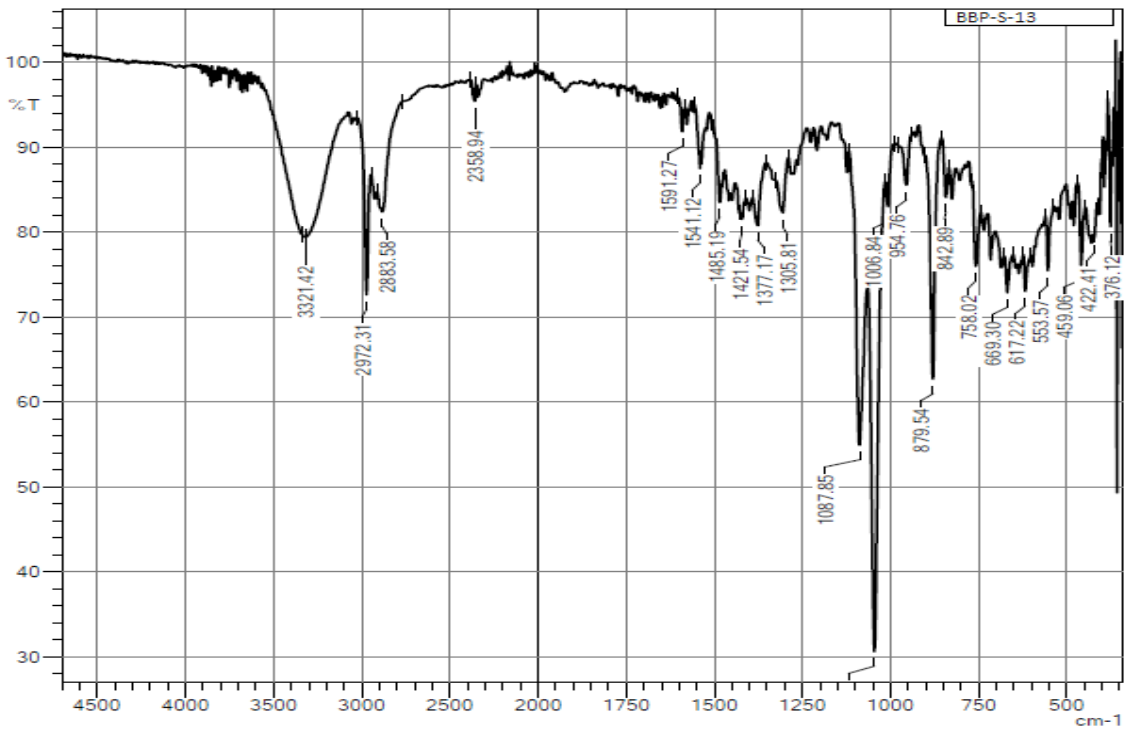
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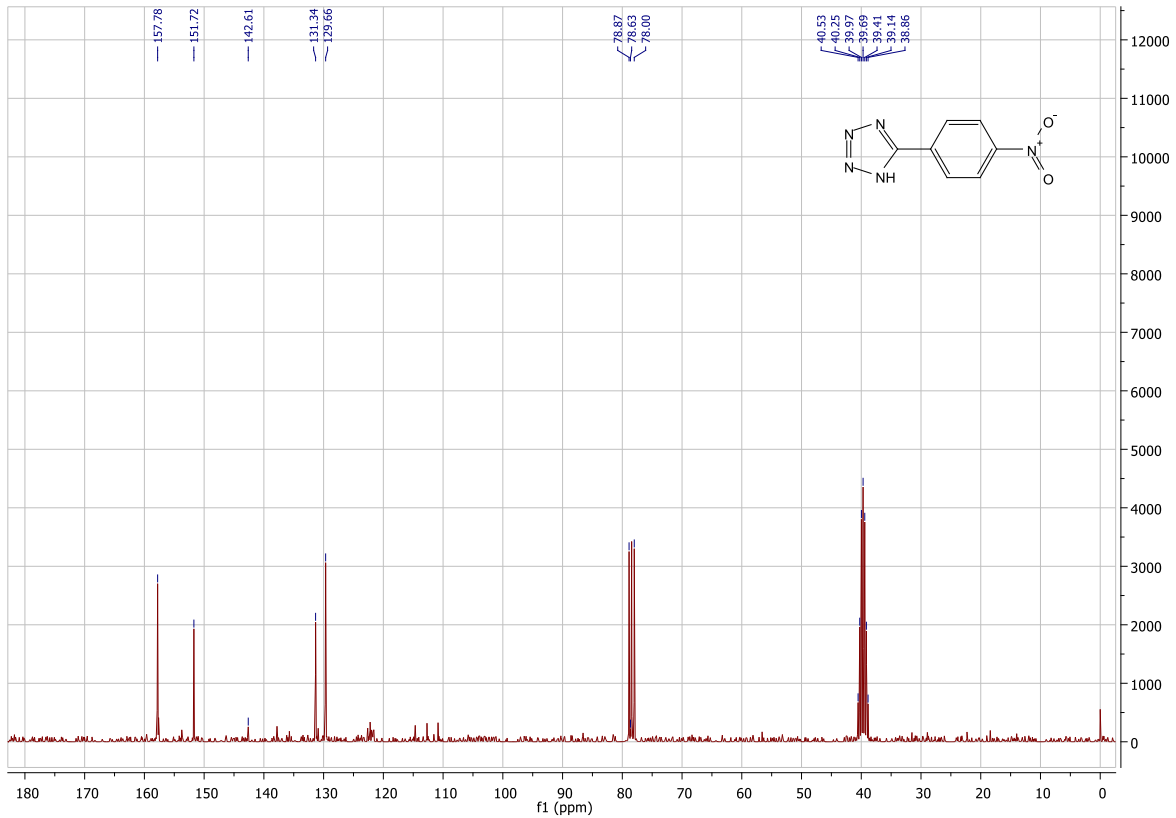




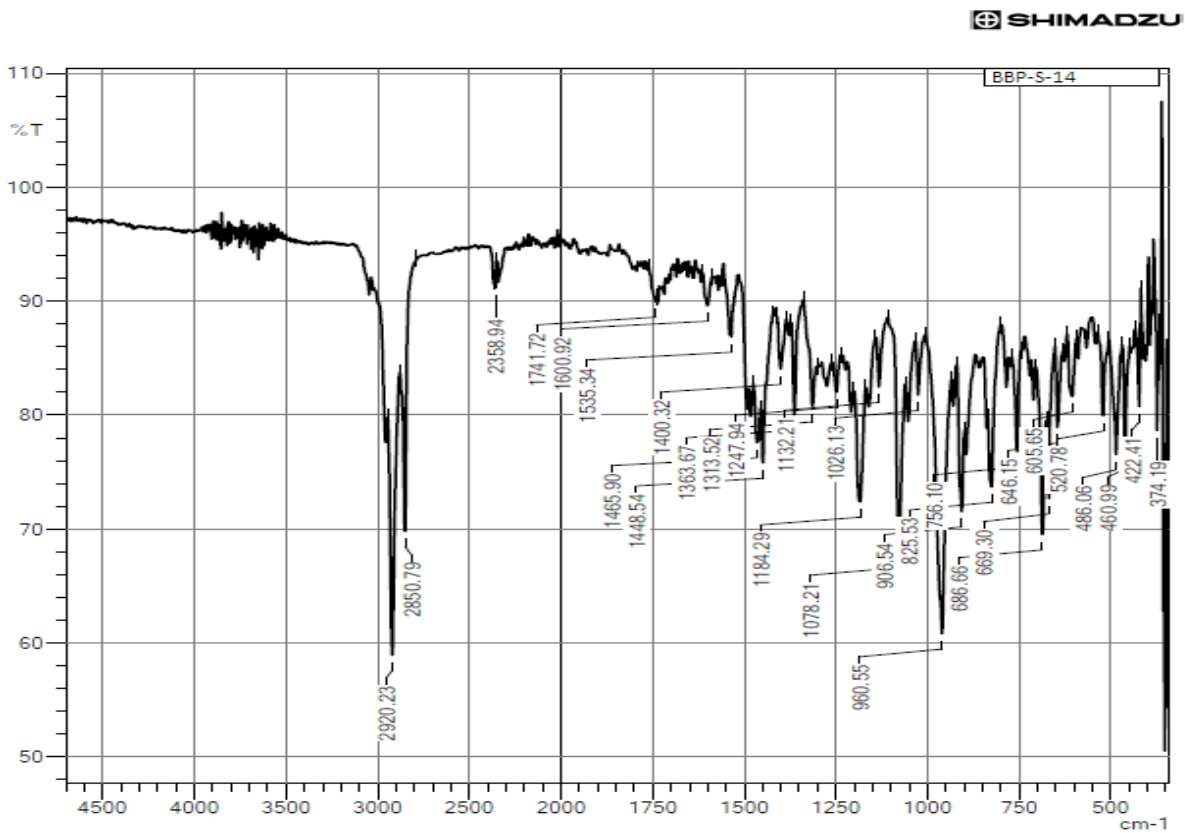
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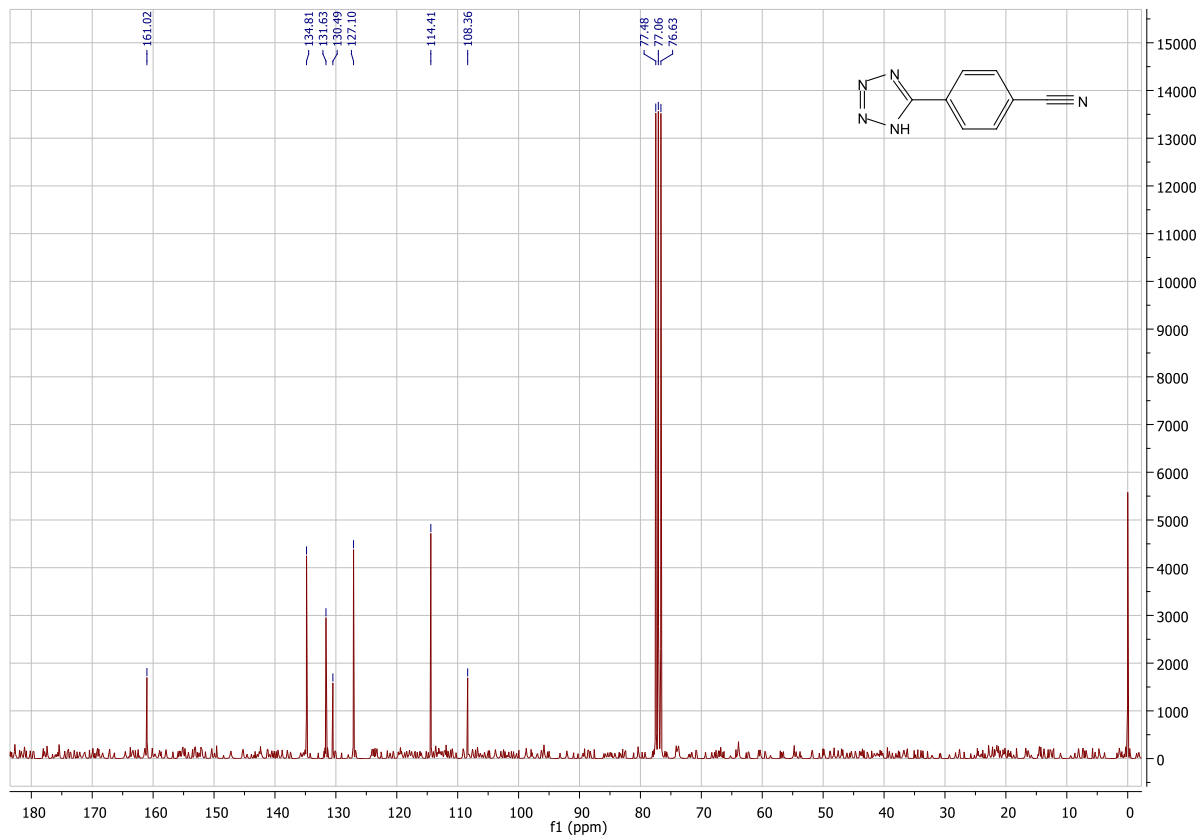
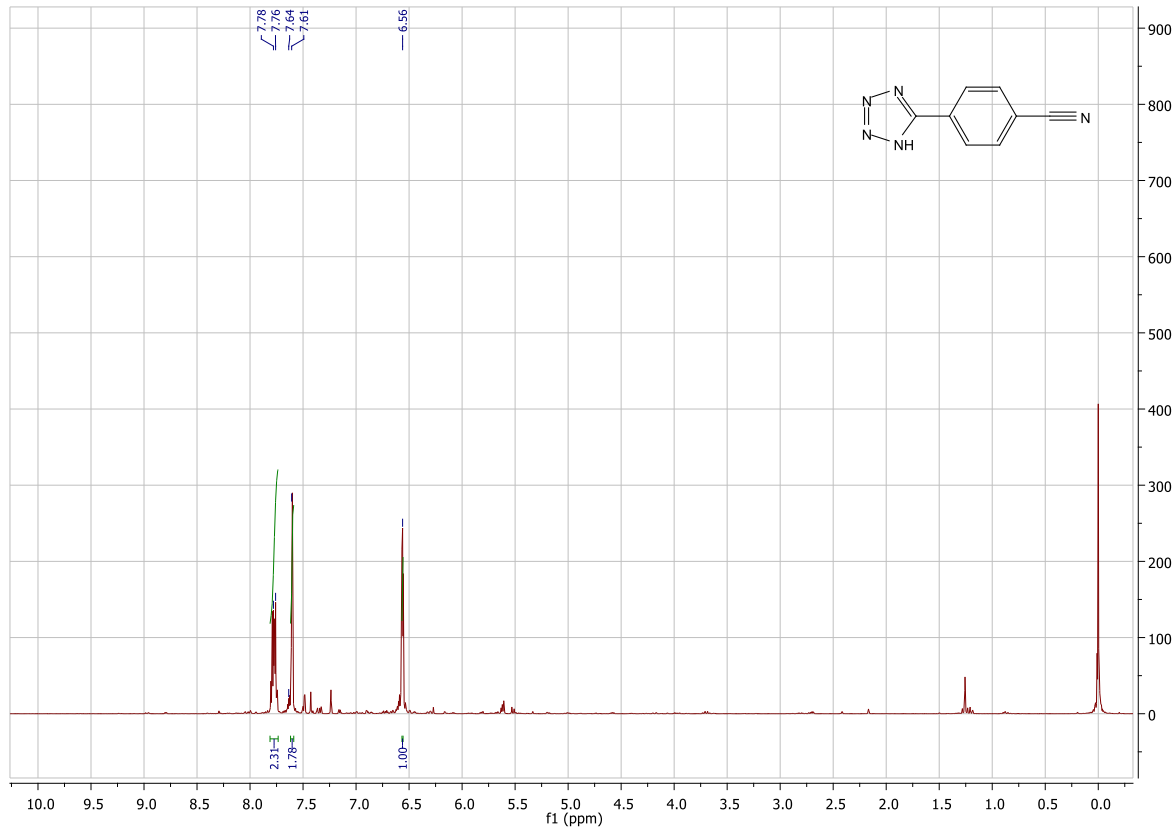
SHIMADZU





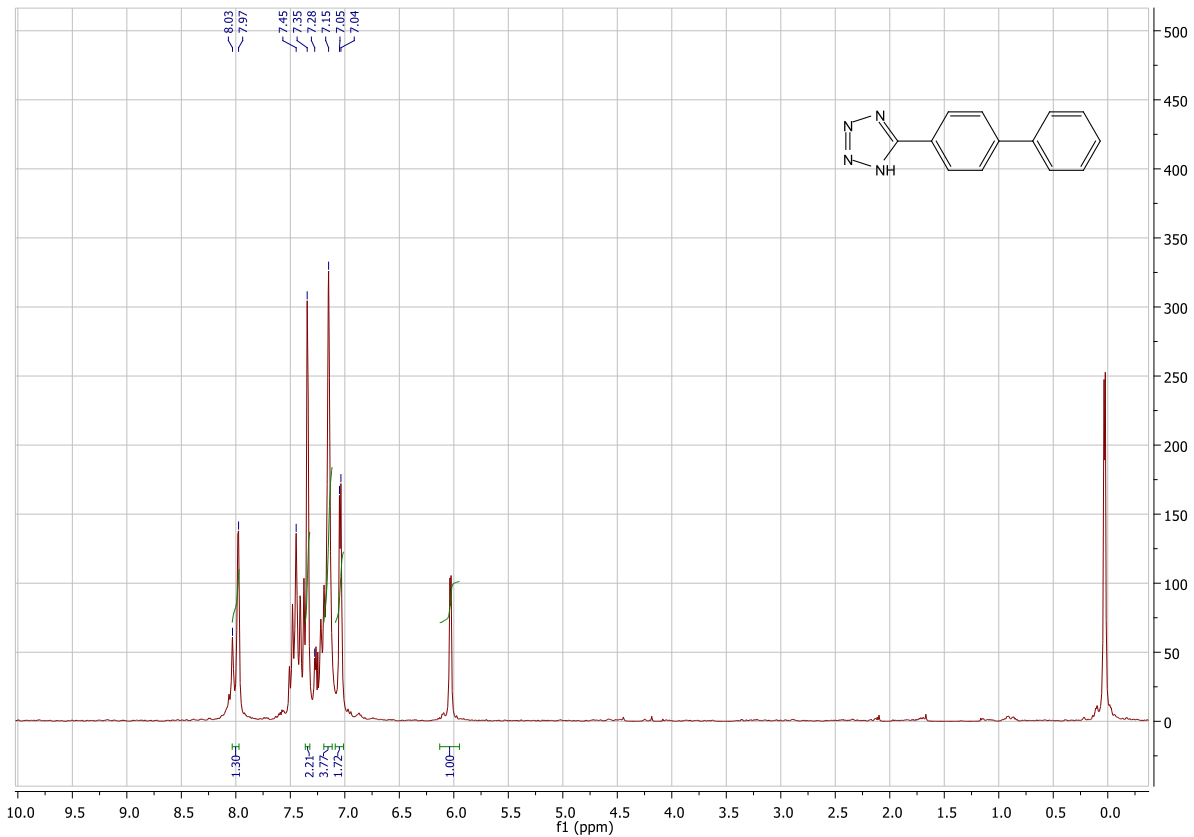
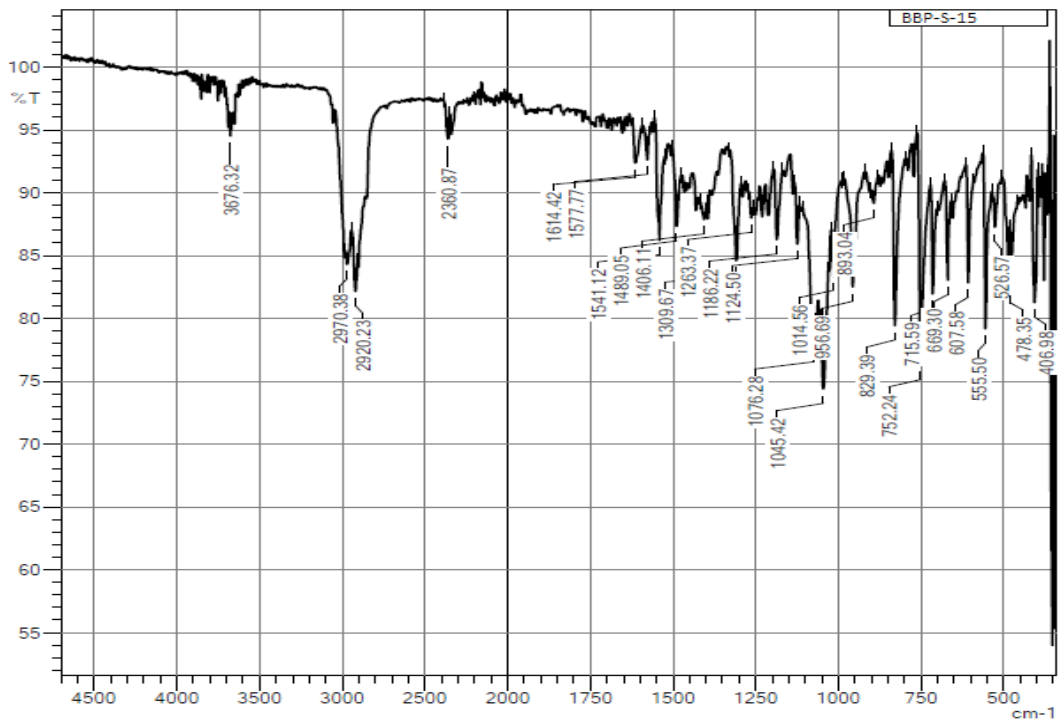
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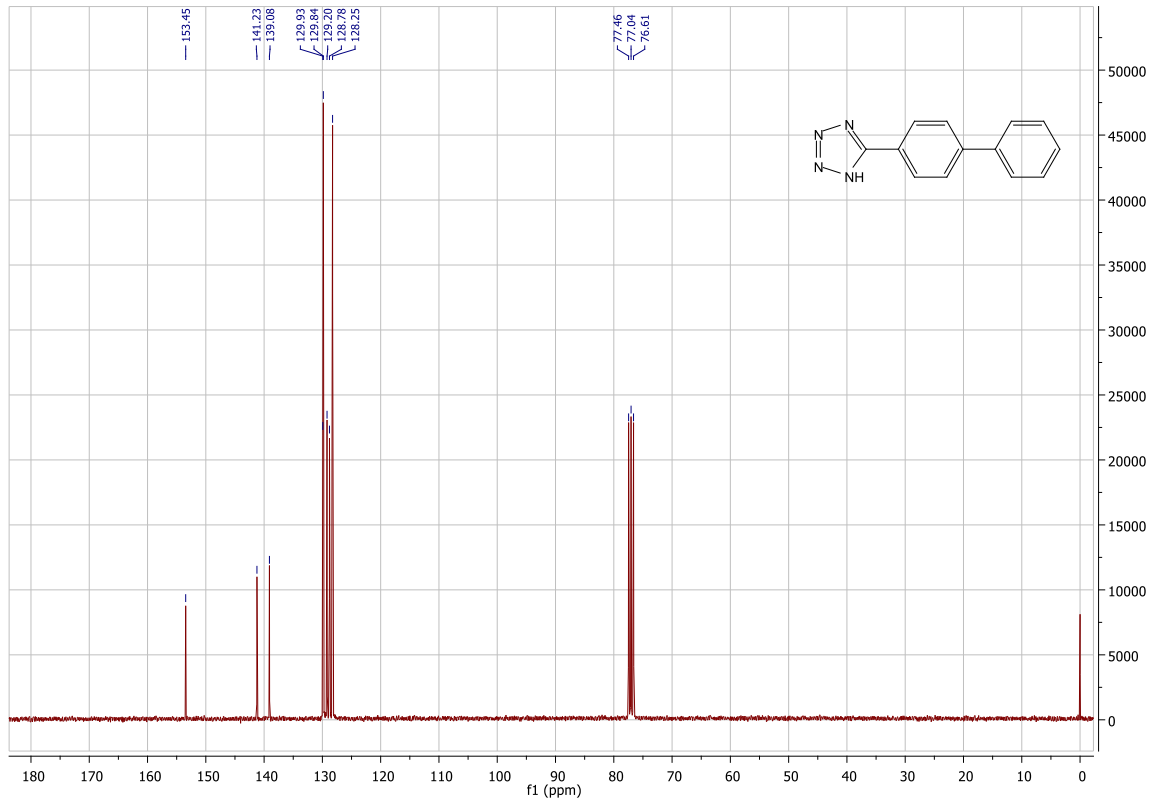




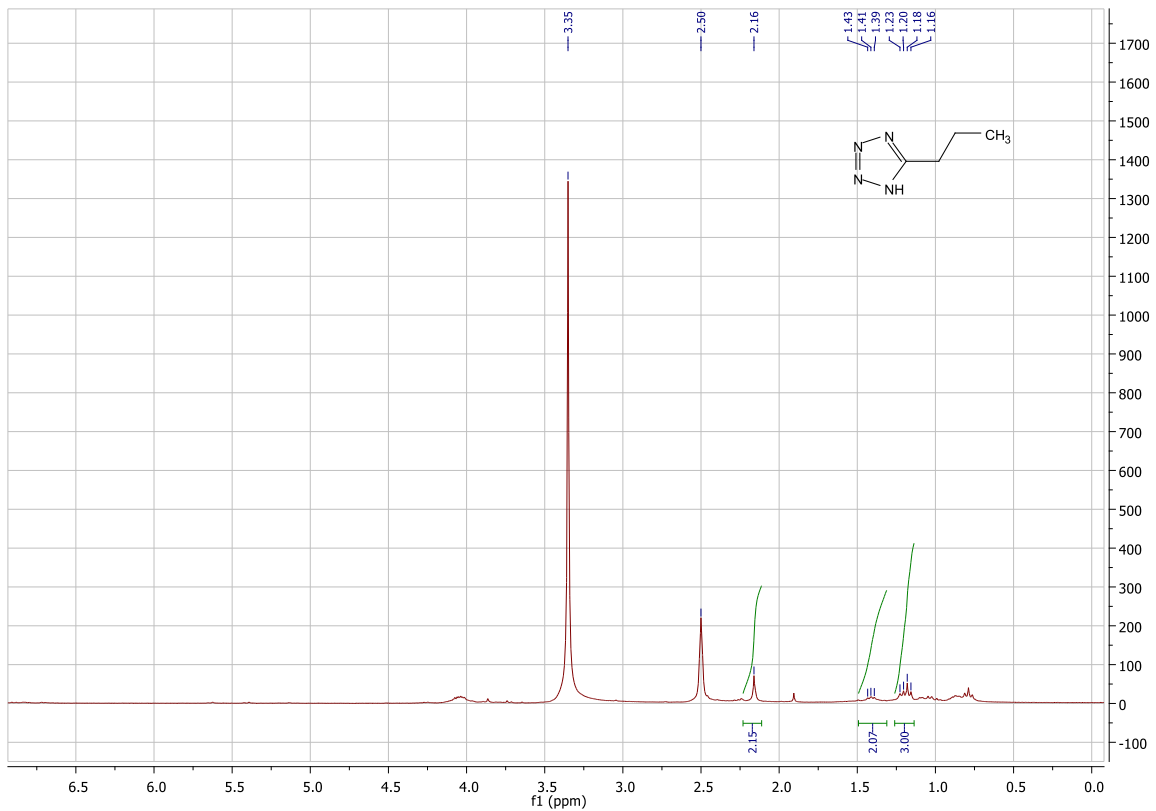
5-(Bipheny-4'-yl)-1H-tetrazole (4o):

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5-propyl-1H-tetrazole (4p):



5-Butyl-1H-tetrazole (4q):

