

Supporting Information

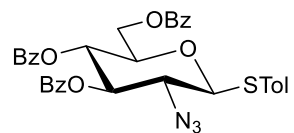
Efficient Synthesis of Fluorogenic Substrates for Mucopolysaccharidosis (MPS) IIIA and IIIB Via Aromatic α -Glycosylation with Thioglycosyl Donors

Yuchen Pan,¹ Gareth G. Doherty,¹ Abdullah Al Nahain,¹ Norbert Wimmer,¹ Adeline A. Lau,²

Kim M. Hemsley,² and Vito Ferro^{1,*}

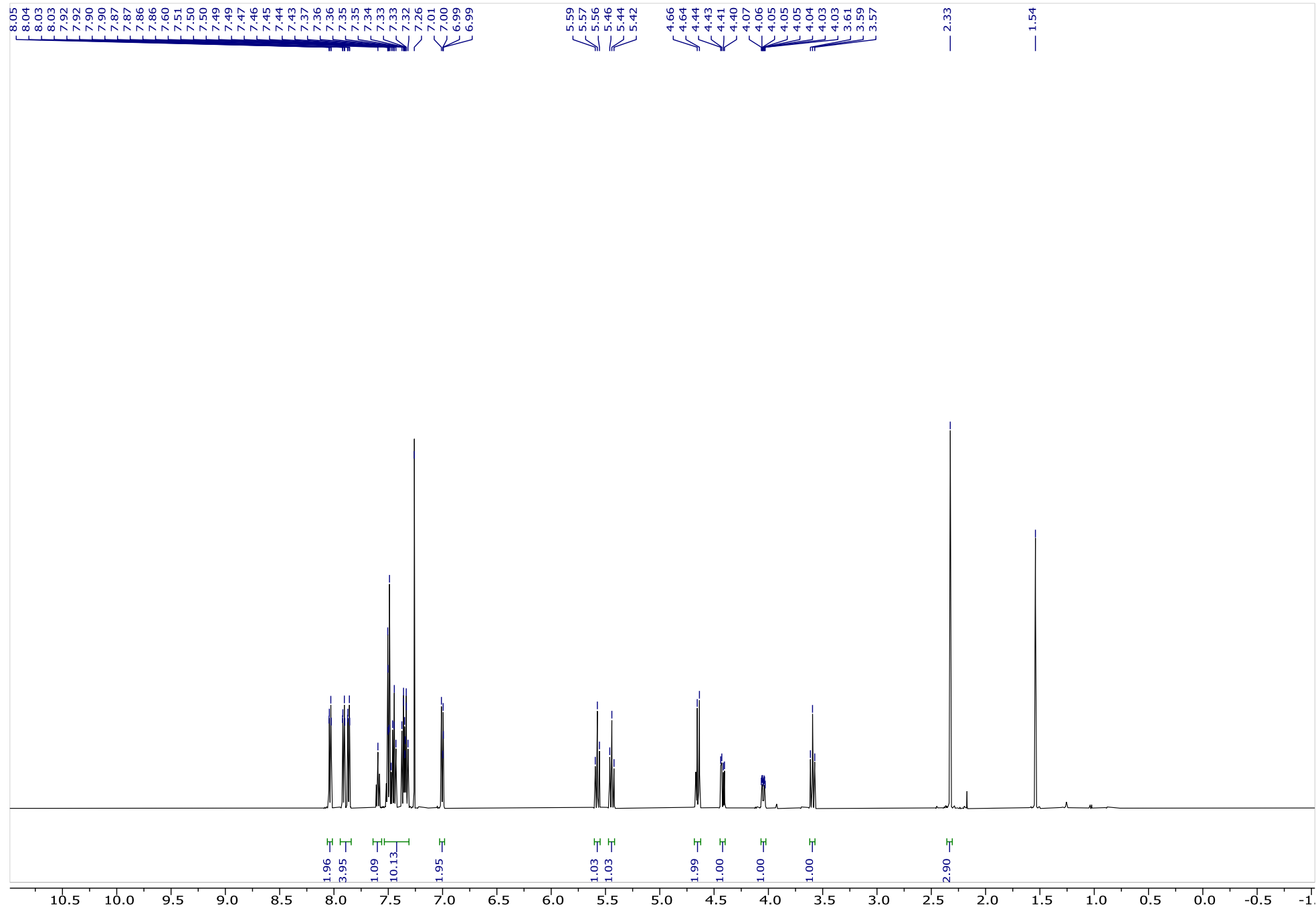
¹School of Chemistry & Molecular Biosciences, The University of Queensland, Brisbane, QLD
4072, Australia

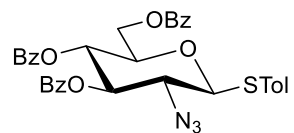
²Childhood Dementia Research Group, College of Medicine and Public Health, Flinders
Health and Medical Research Institute (FHMRI), Flinders University, Bedford Park, SA, 5042,
Australia.



8

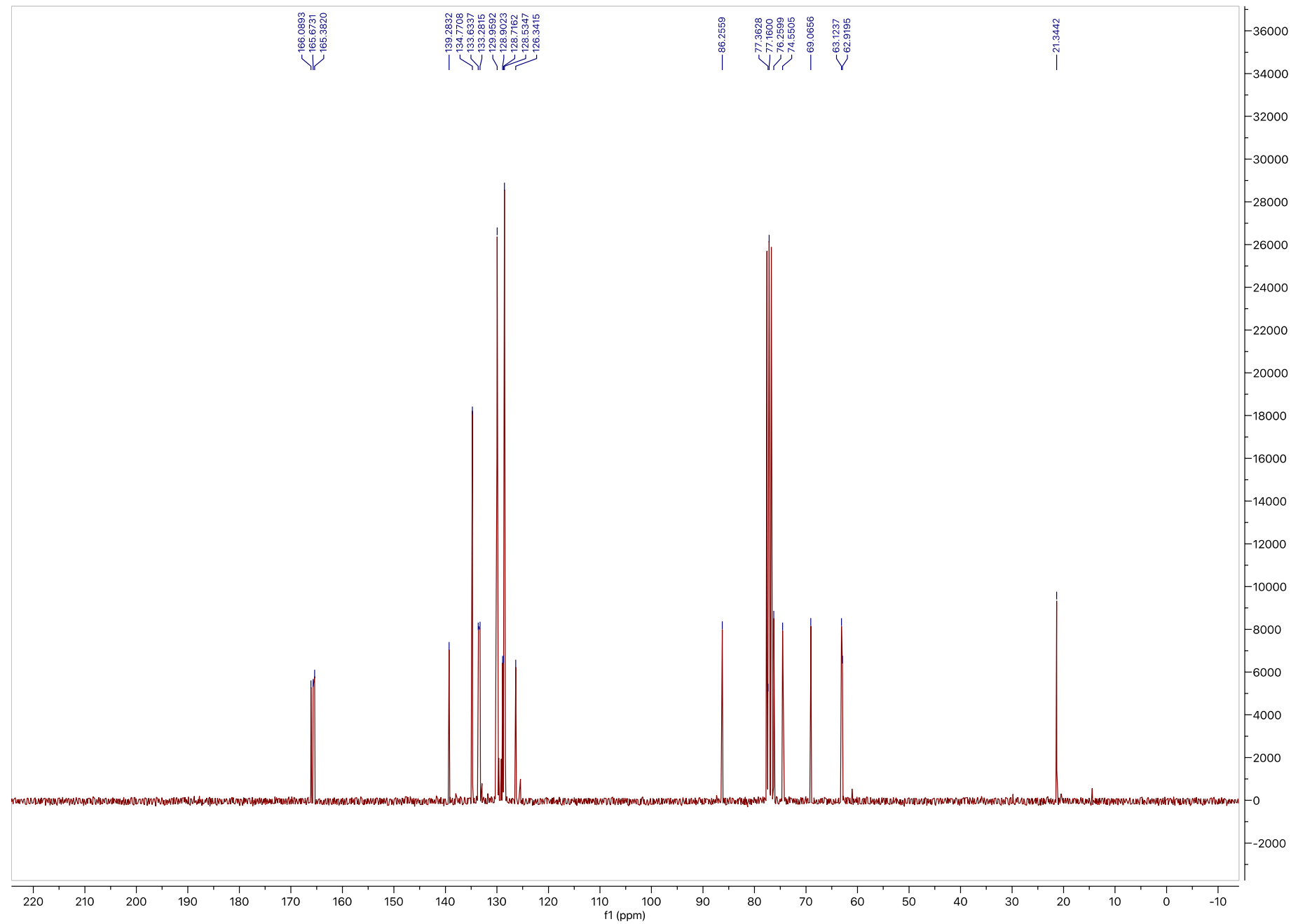
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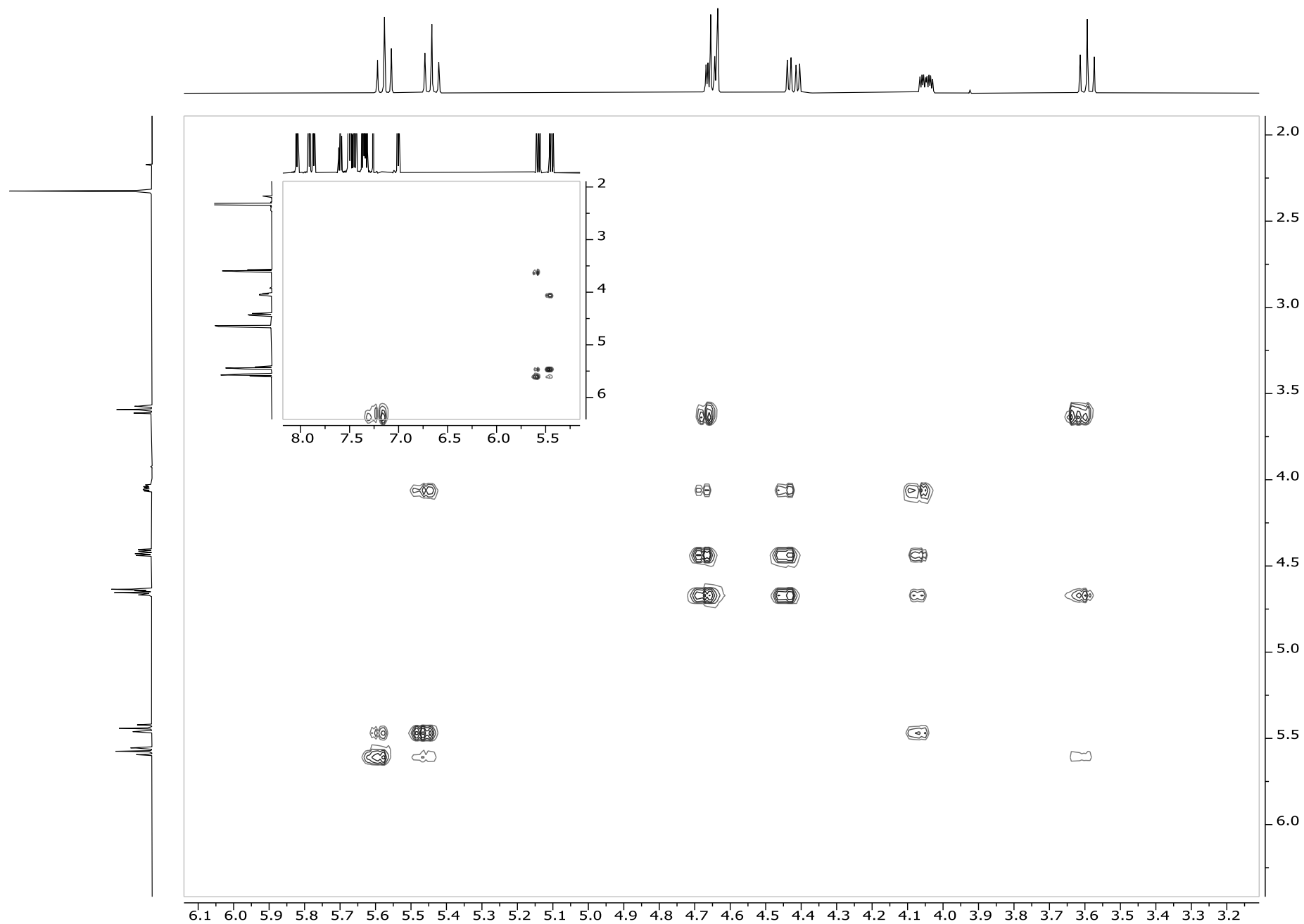
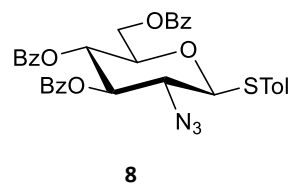


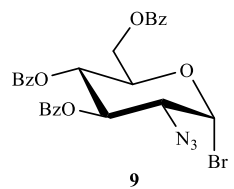


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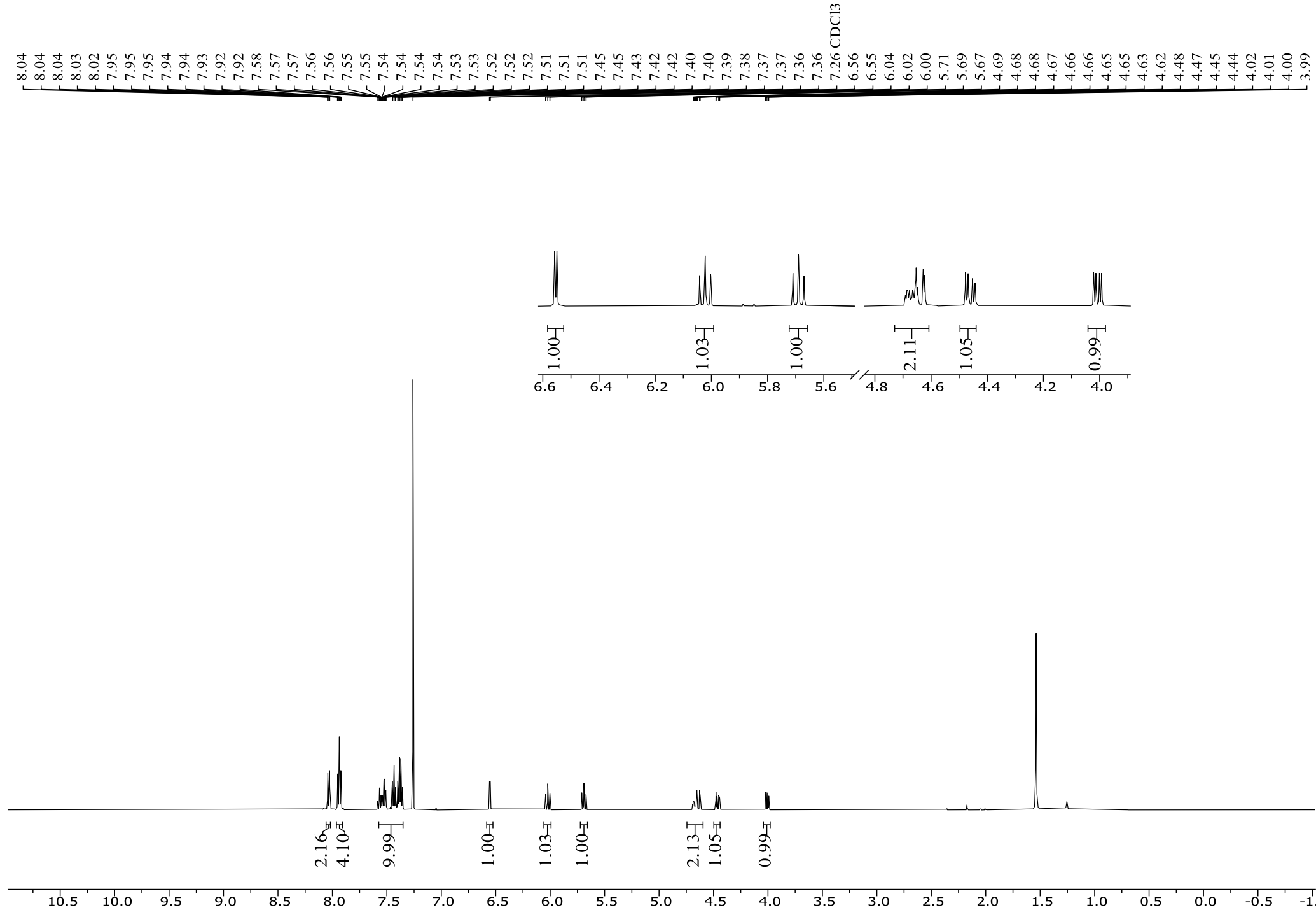
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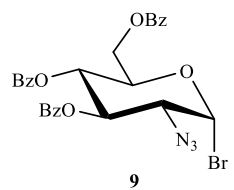




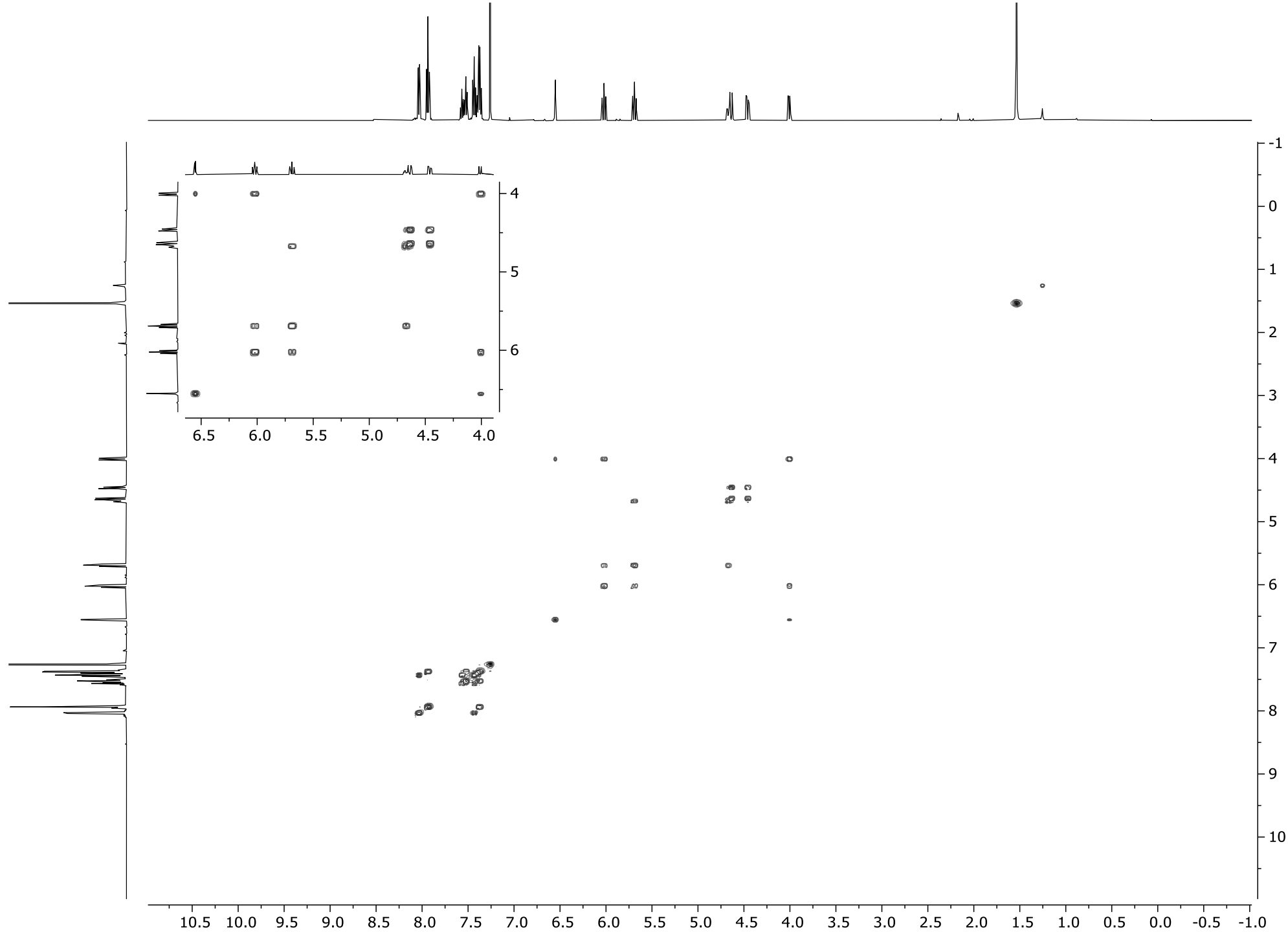


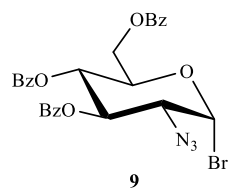
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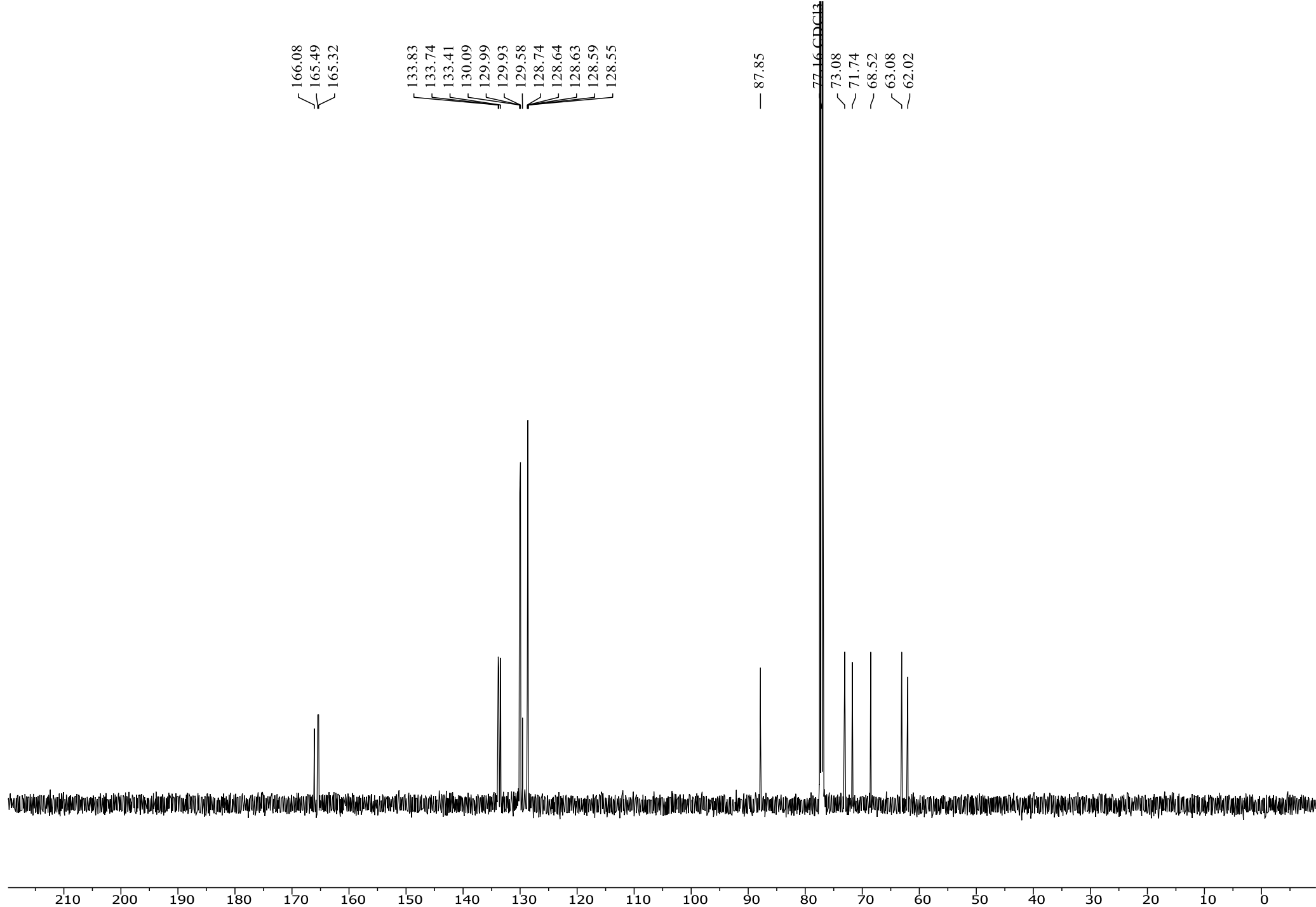


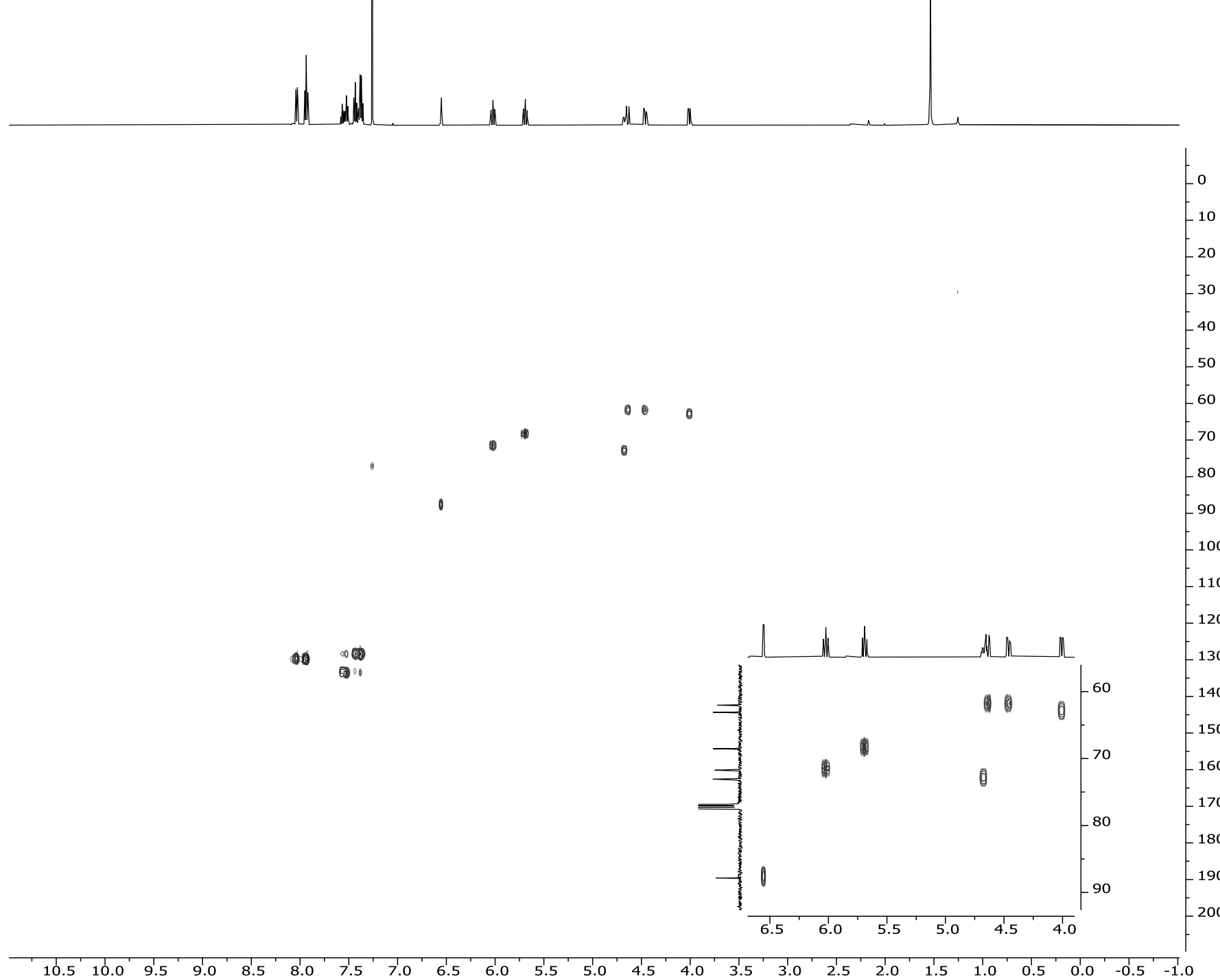
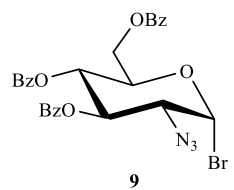
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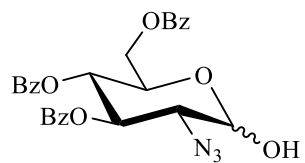




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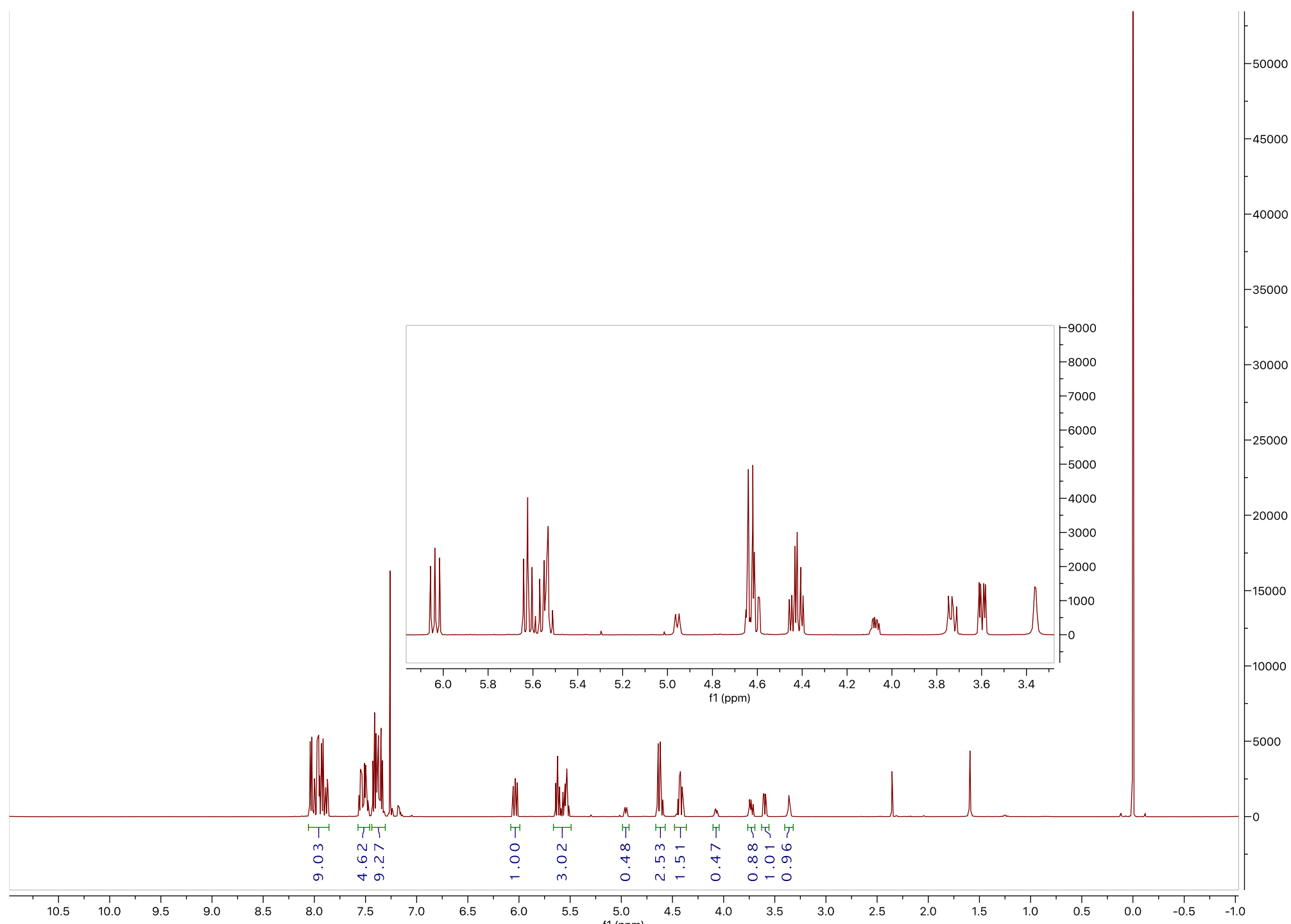


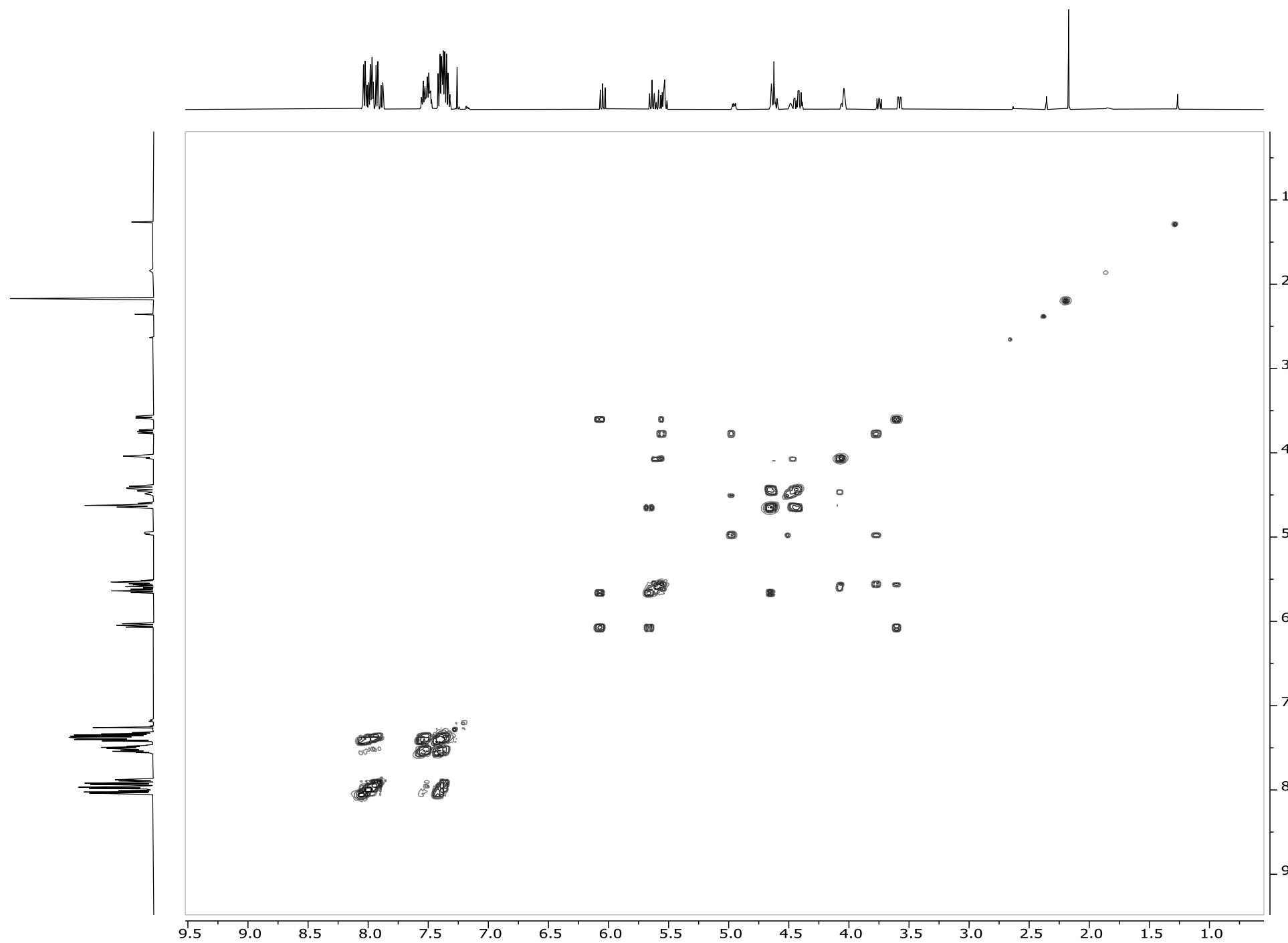
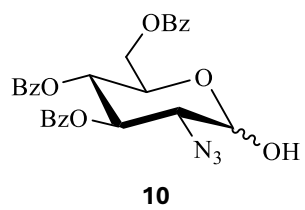


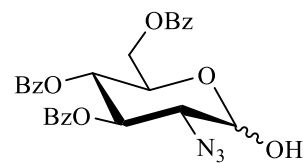


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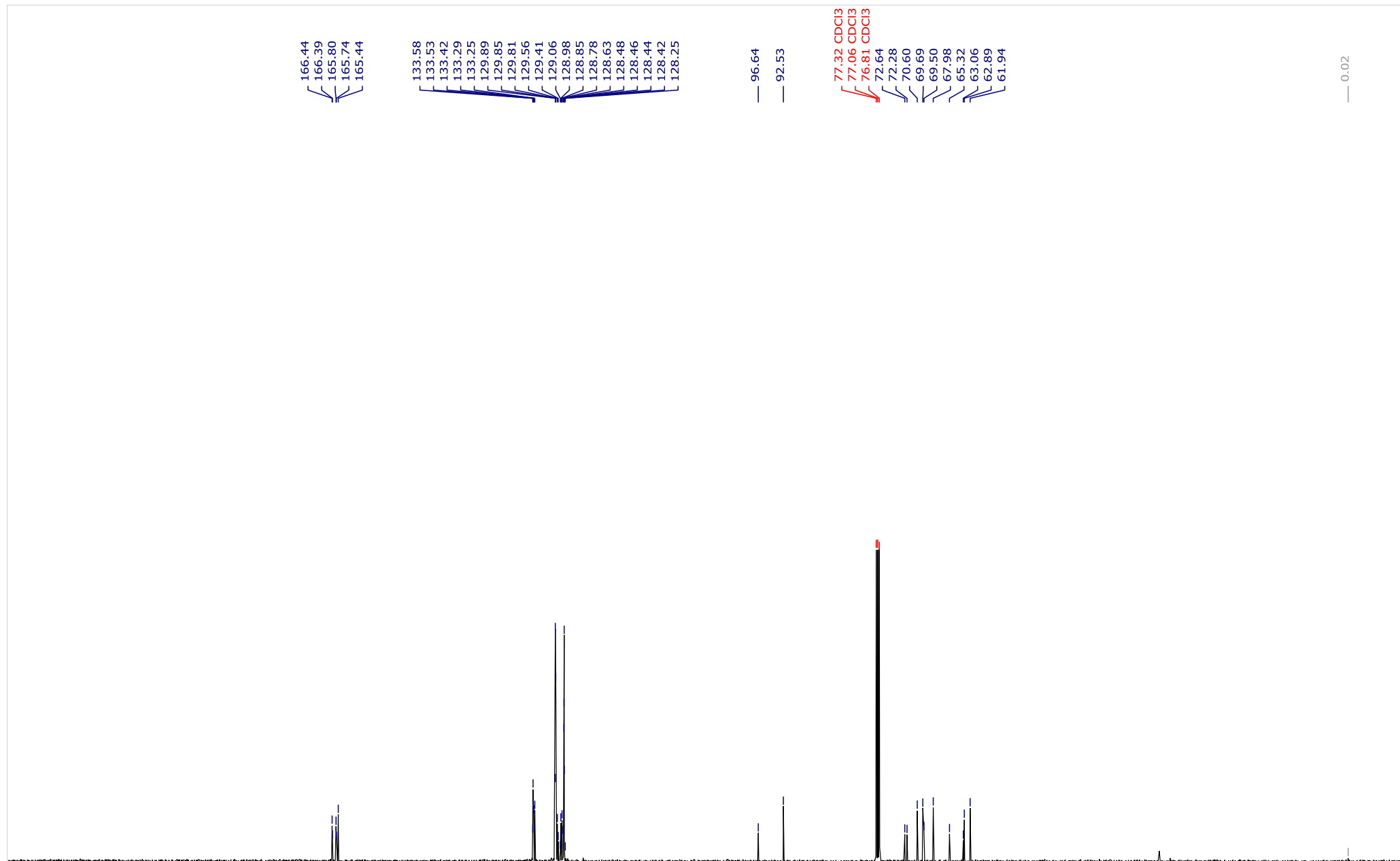


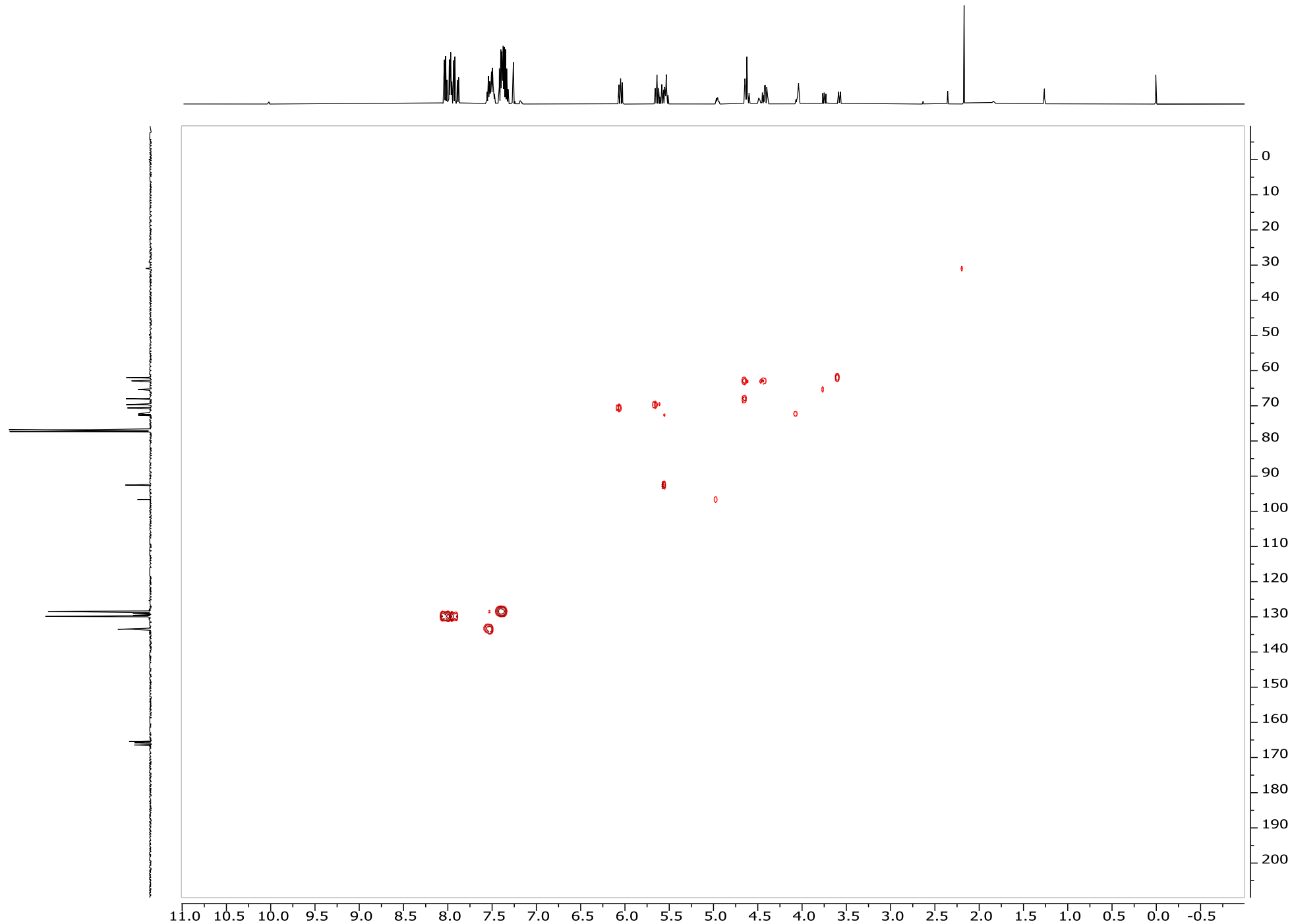
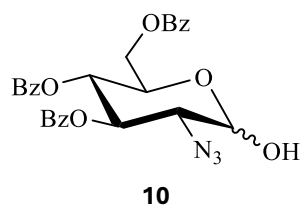


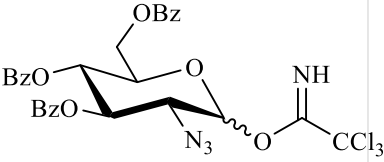


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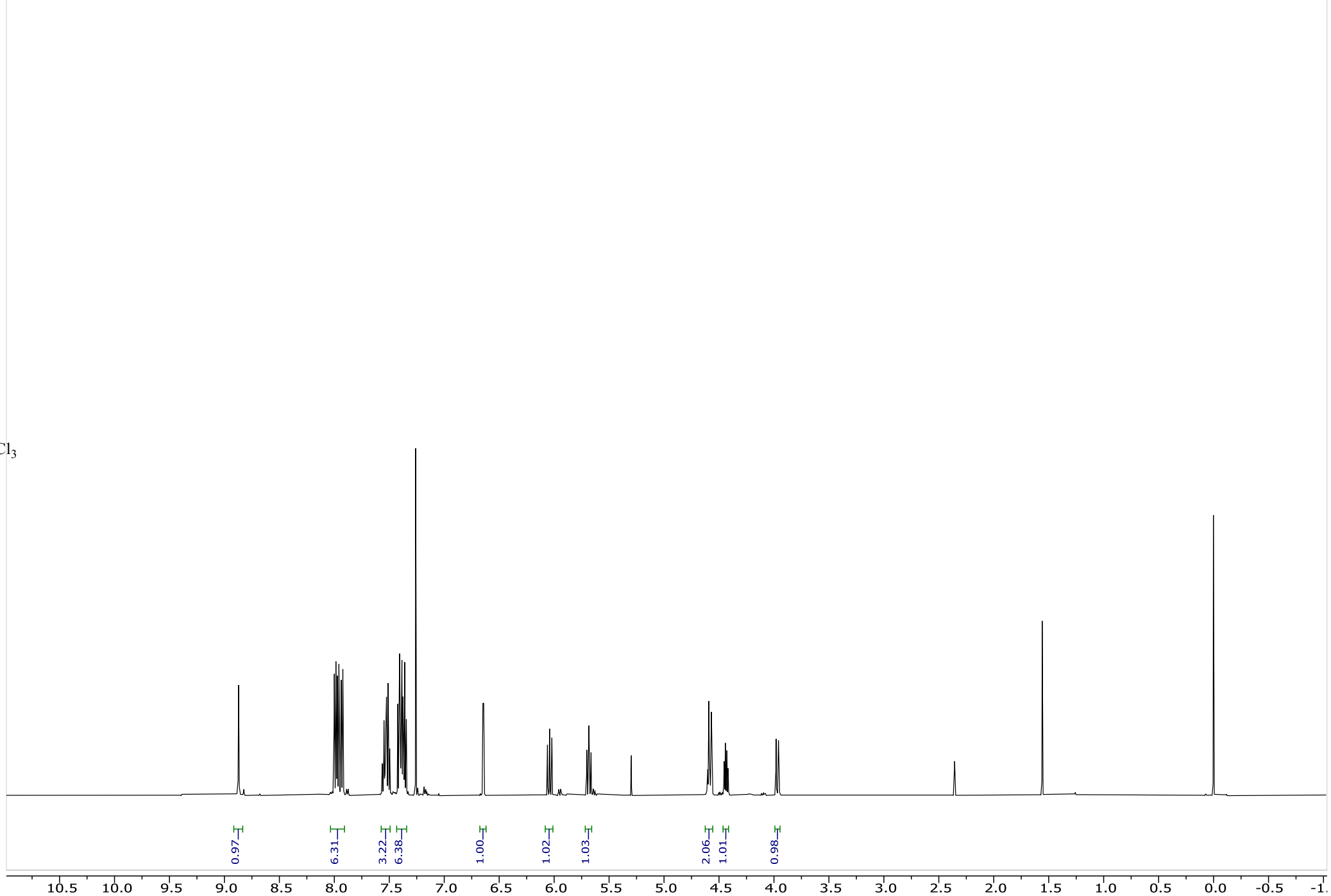


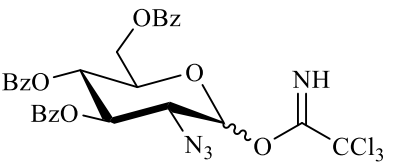




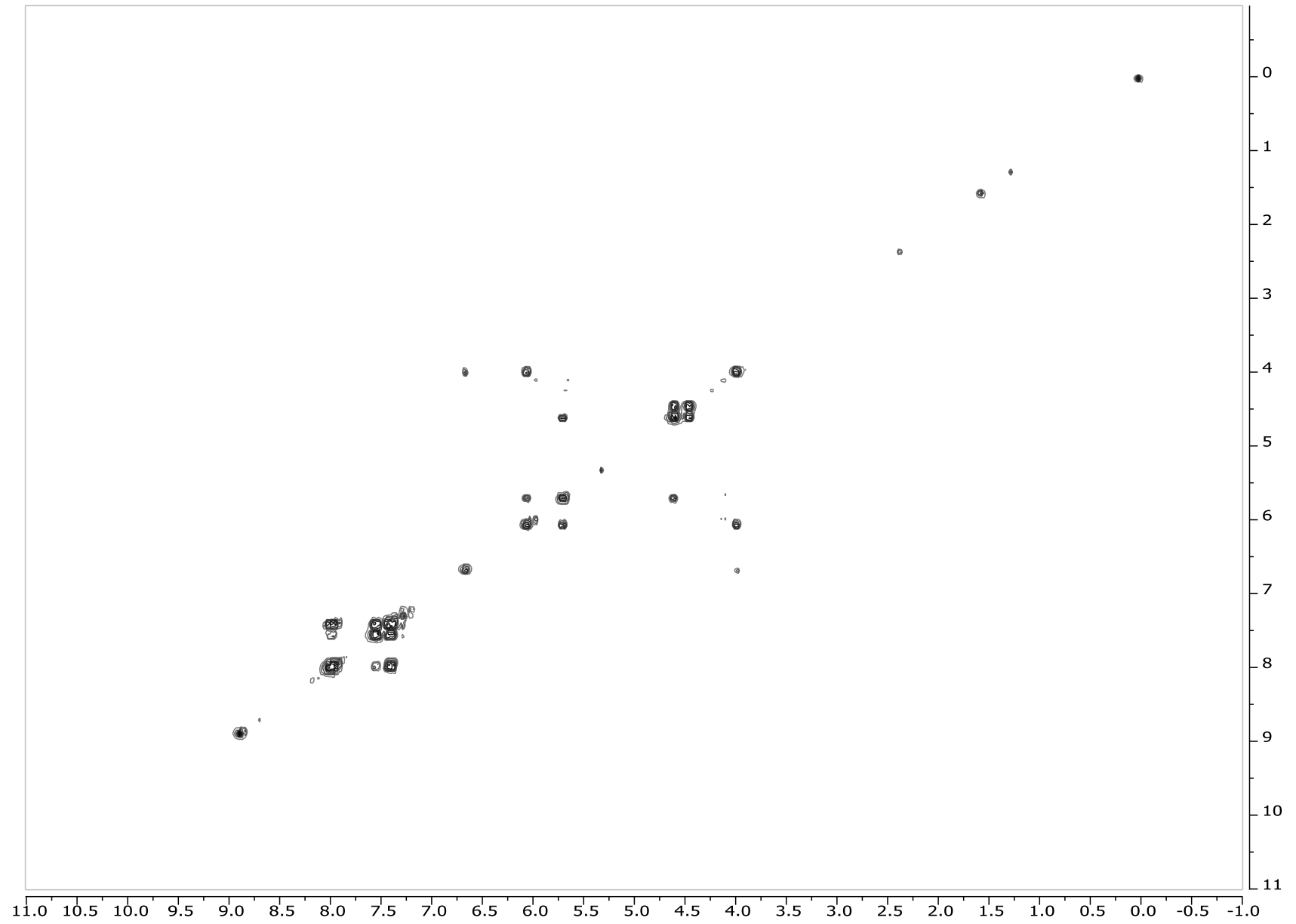
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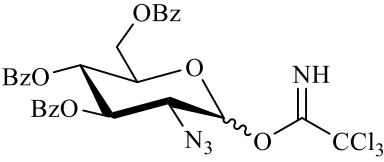
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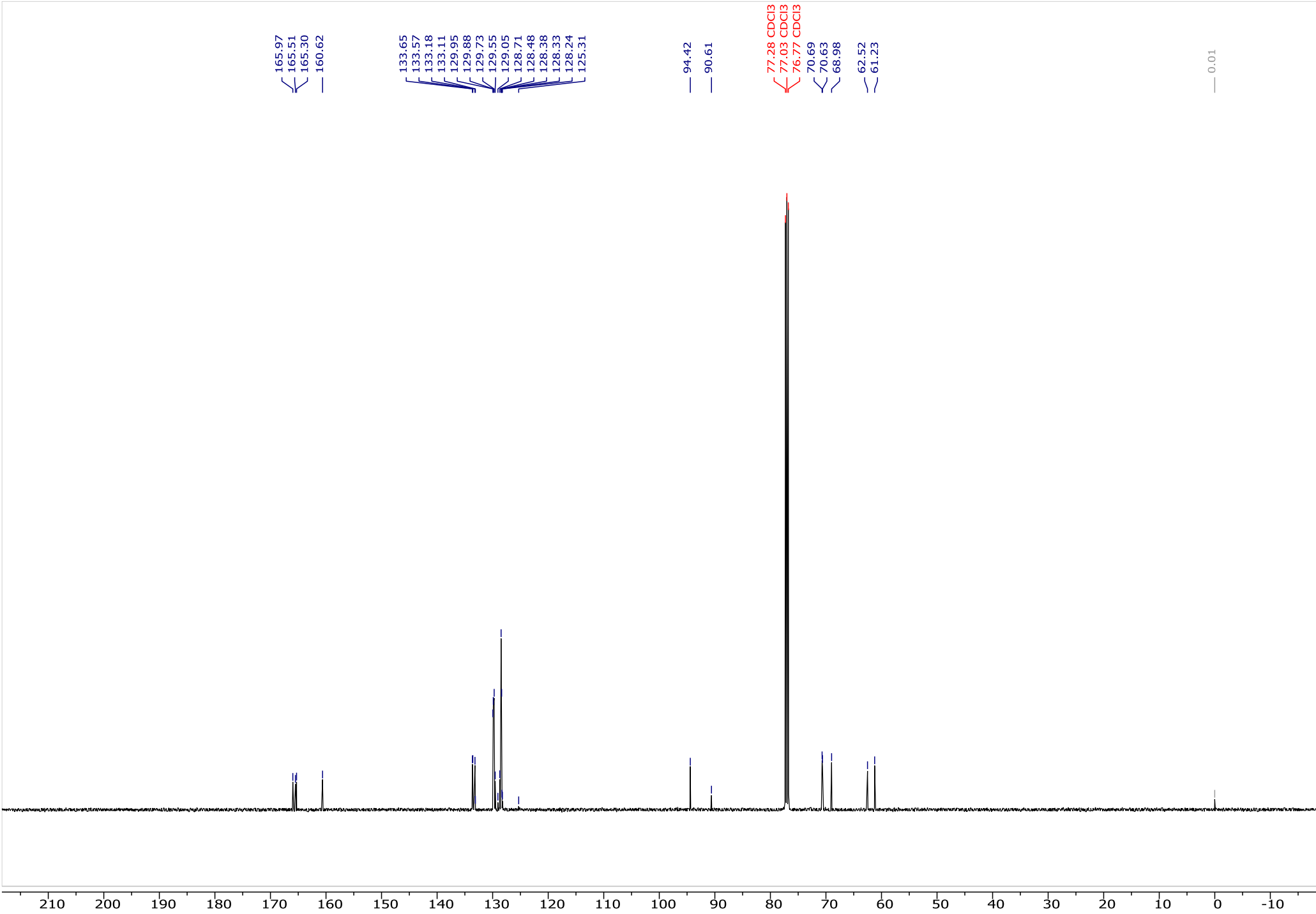
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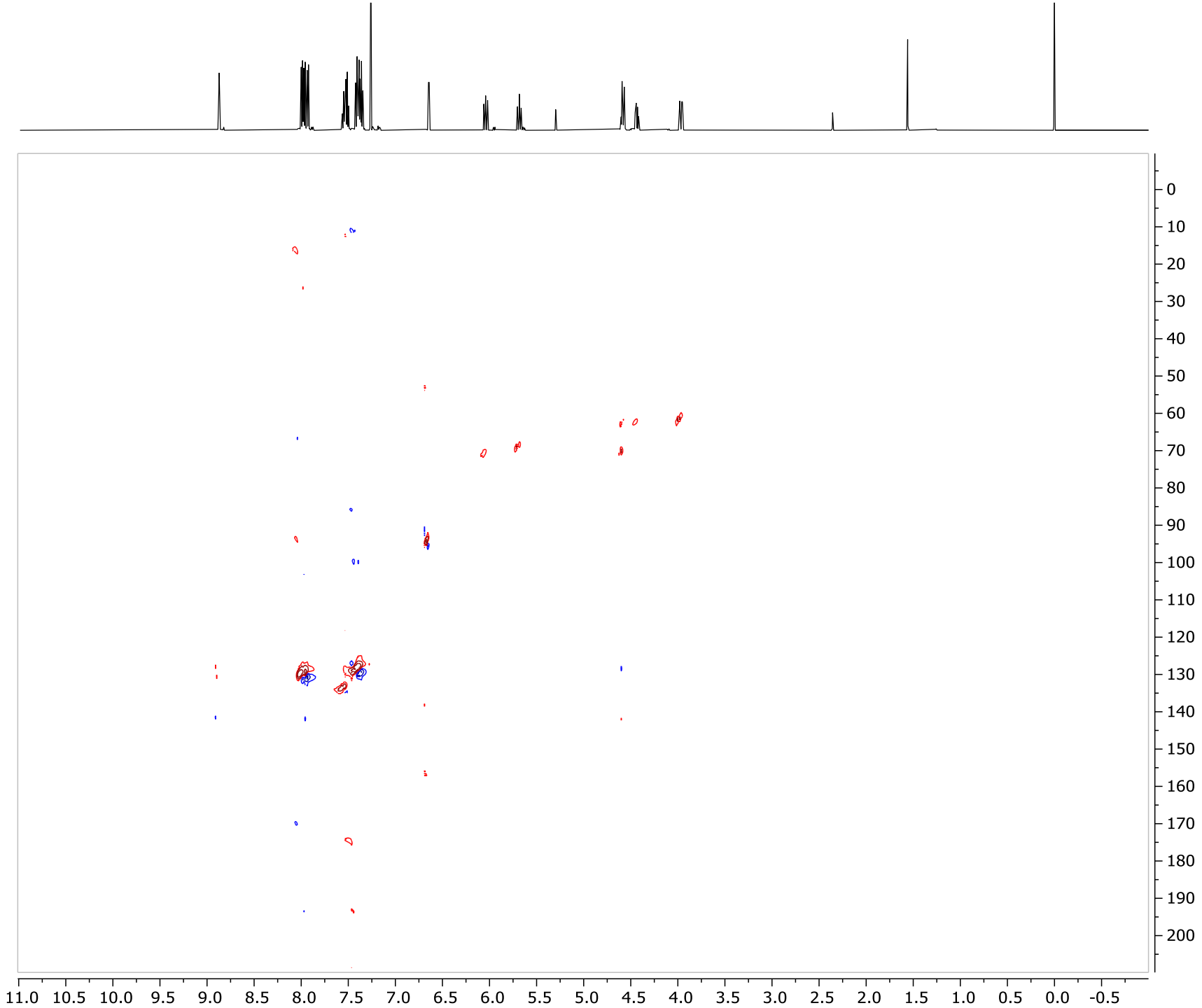
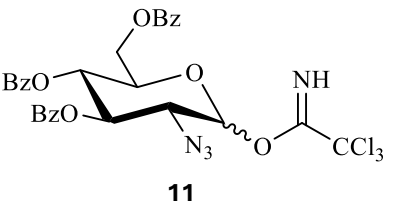


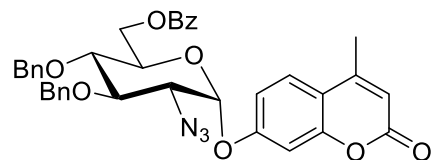


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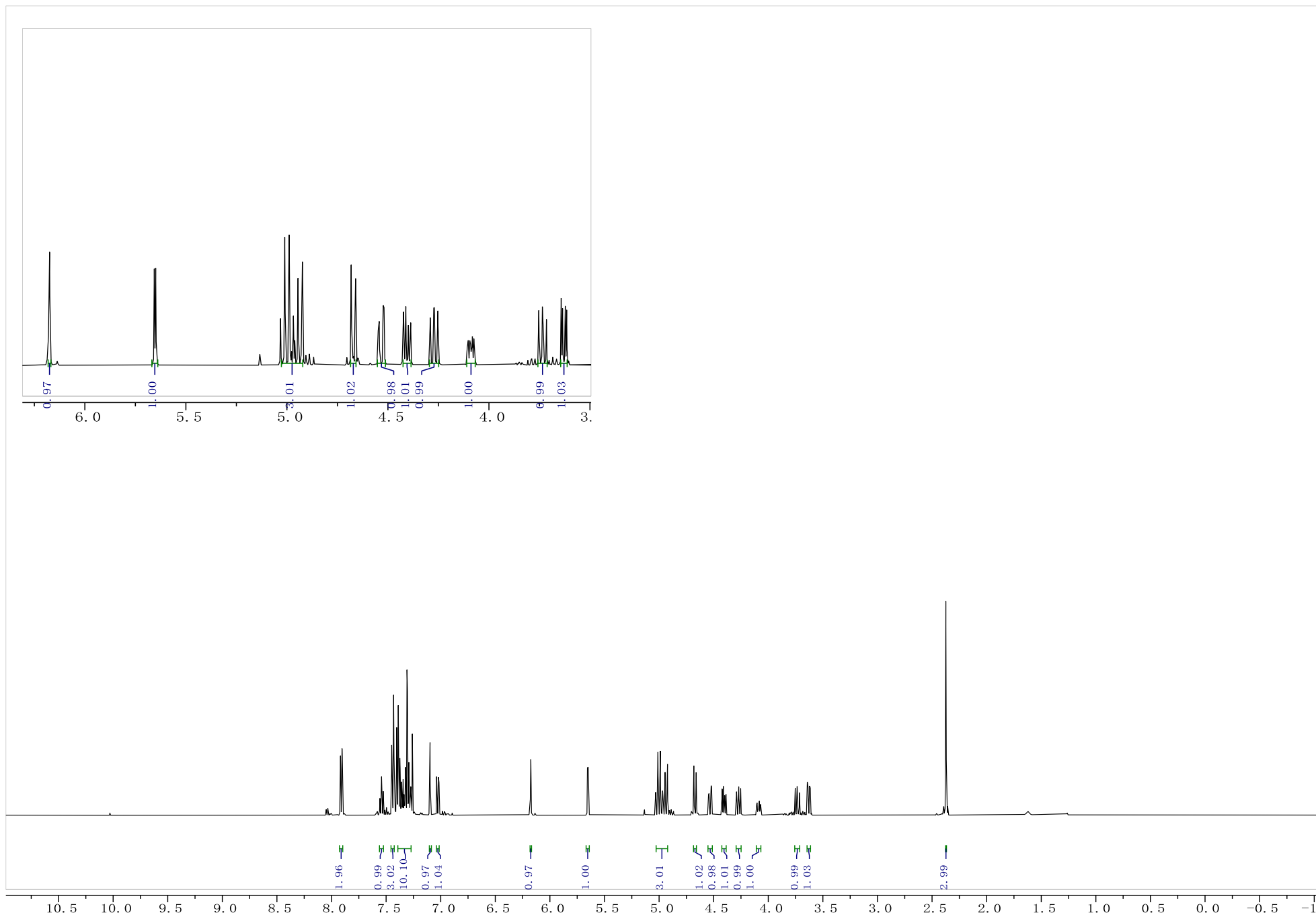


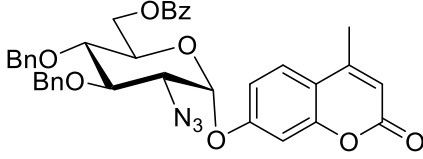




14 (α/β >20:1)

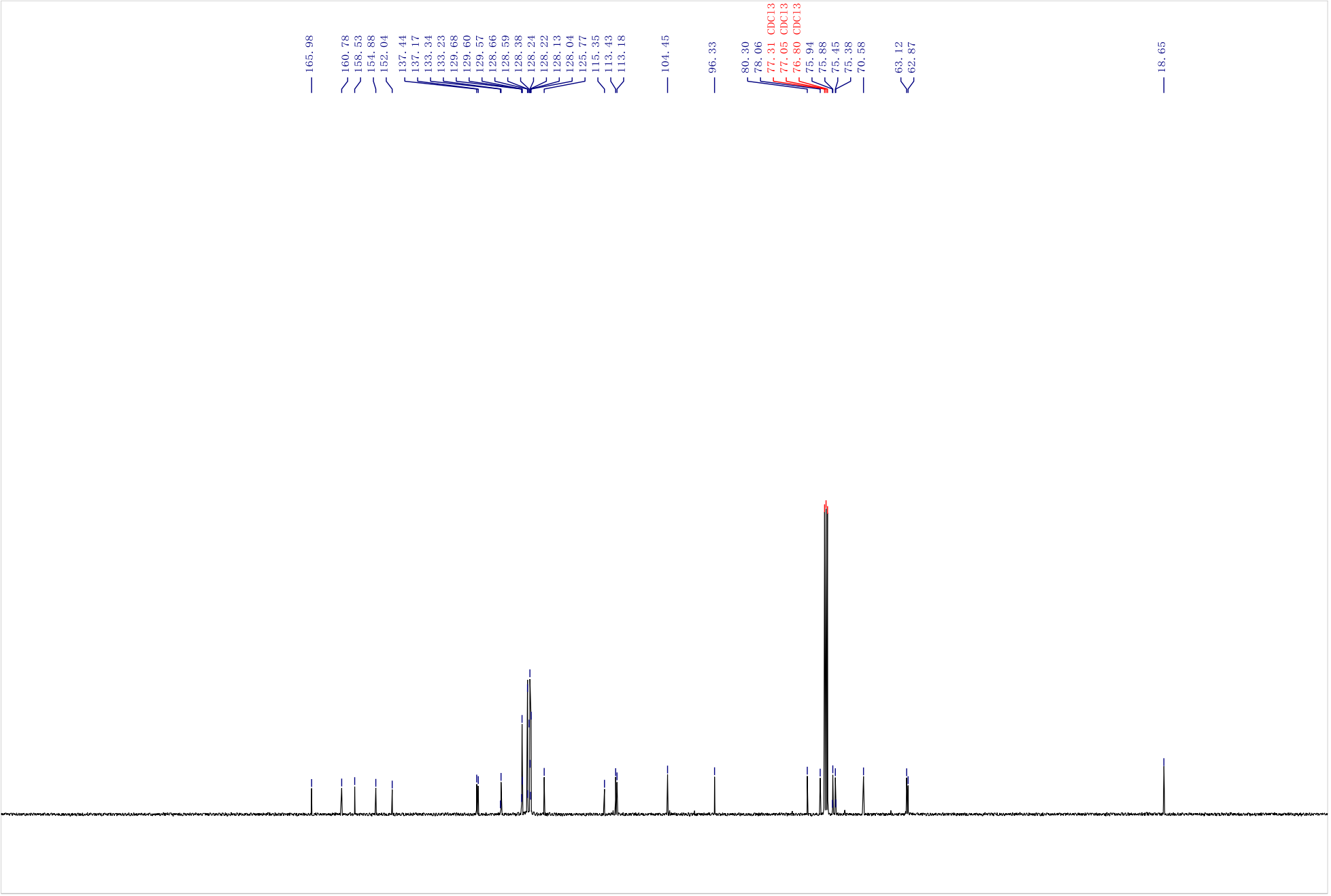
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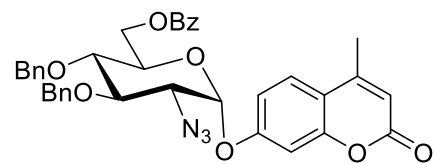




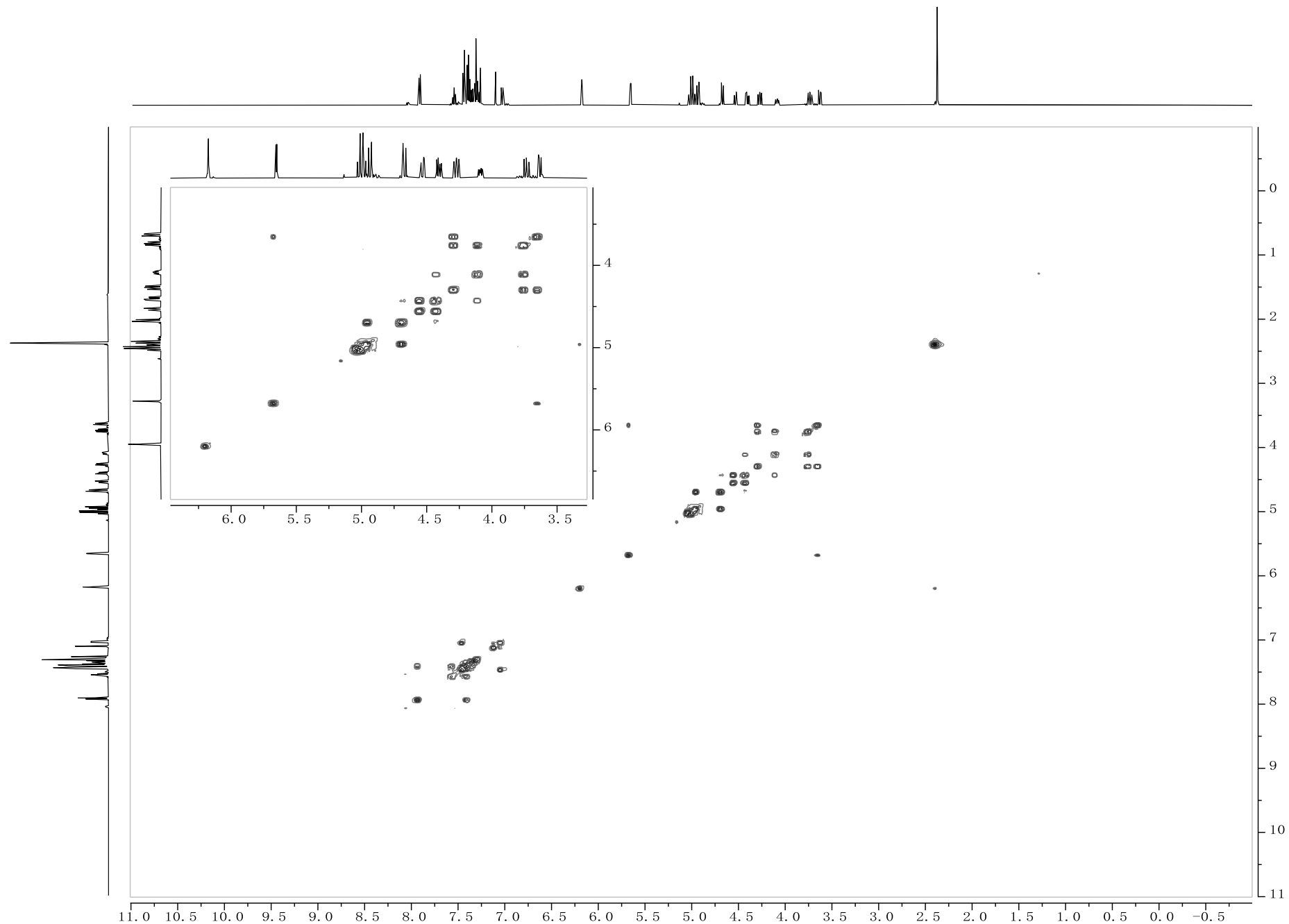
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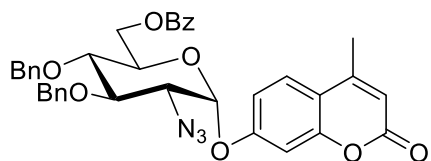
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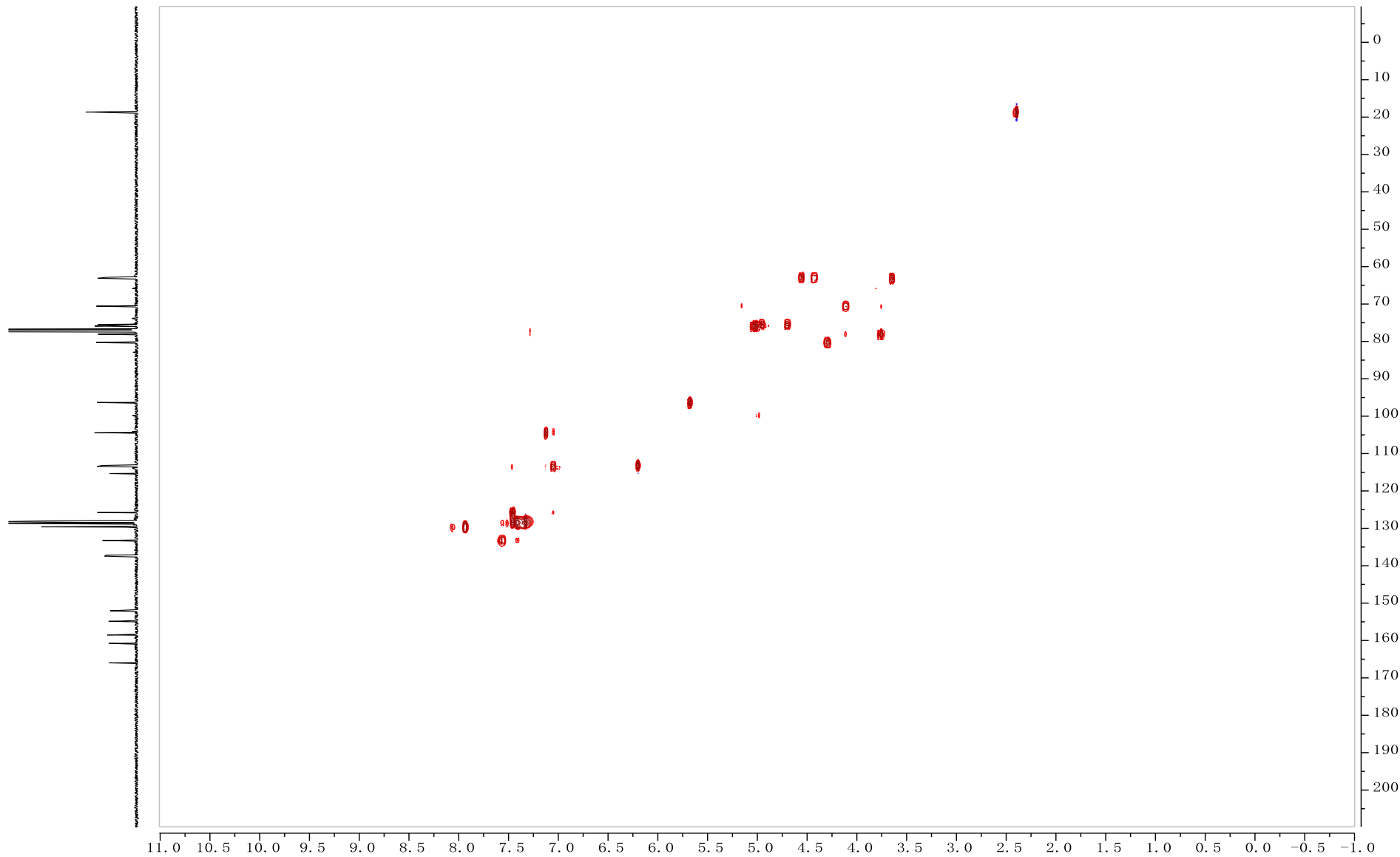


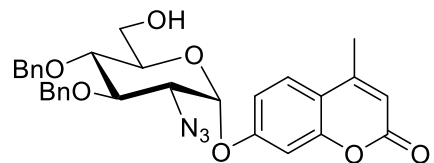
14 ($\alpha/\beta > 20:1$)





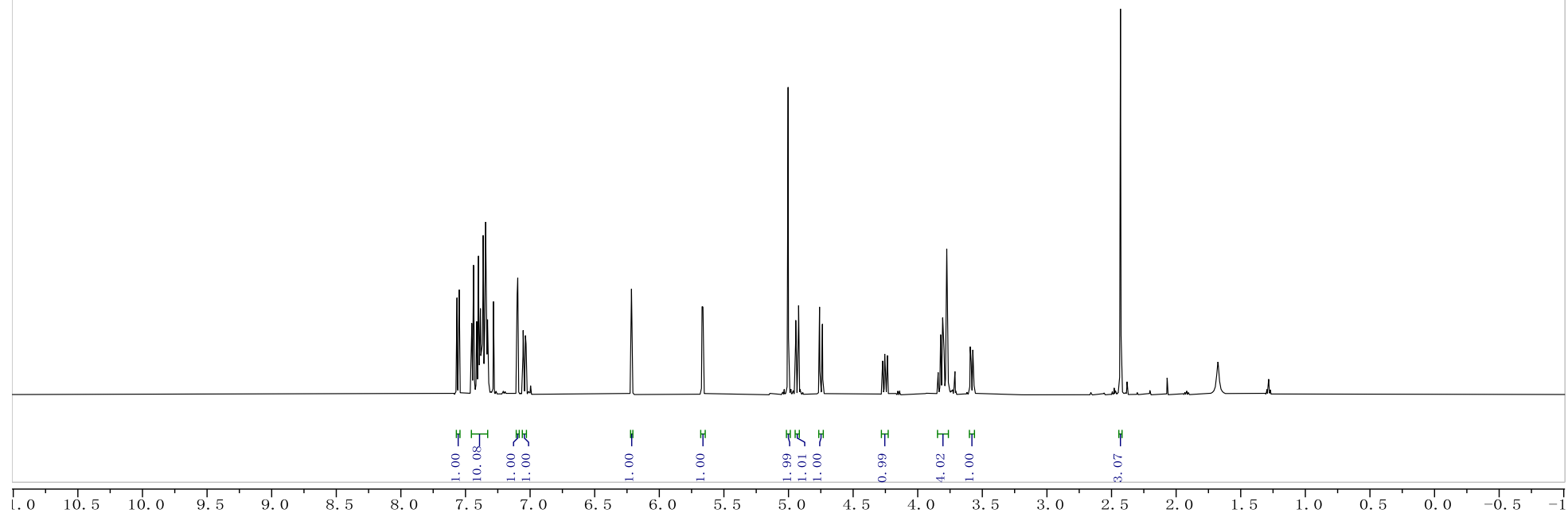
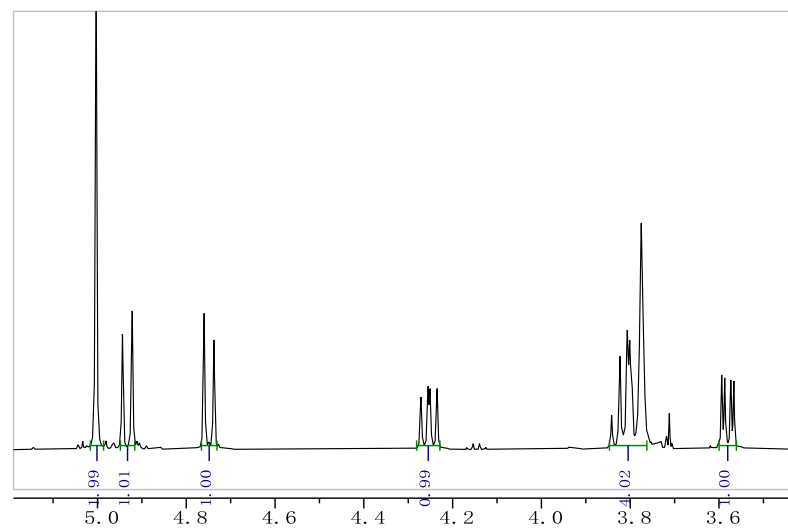
14 ($\alpha/\beta > 20:1$)



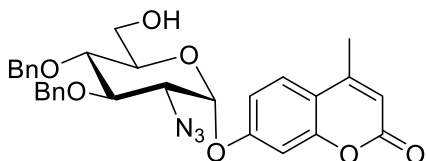


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500 MHz, CDCl₃

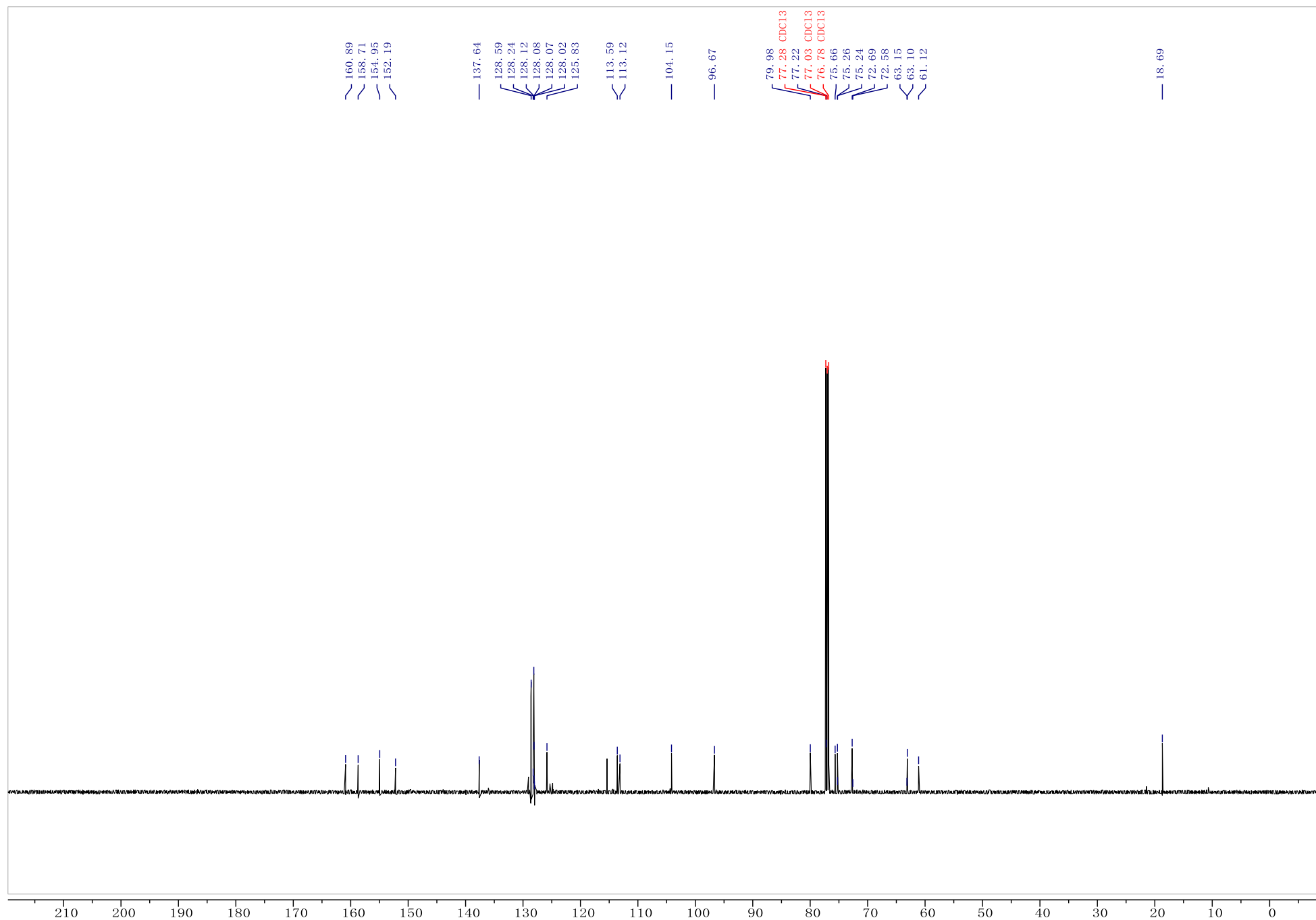


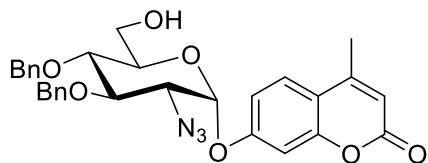
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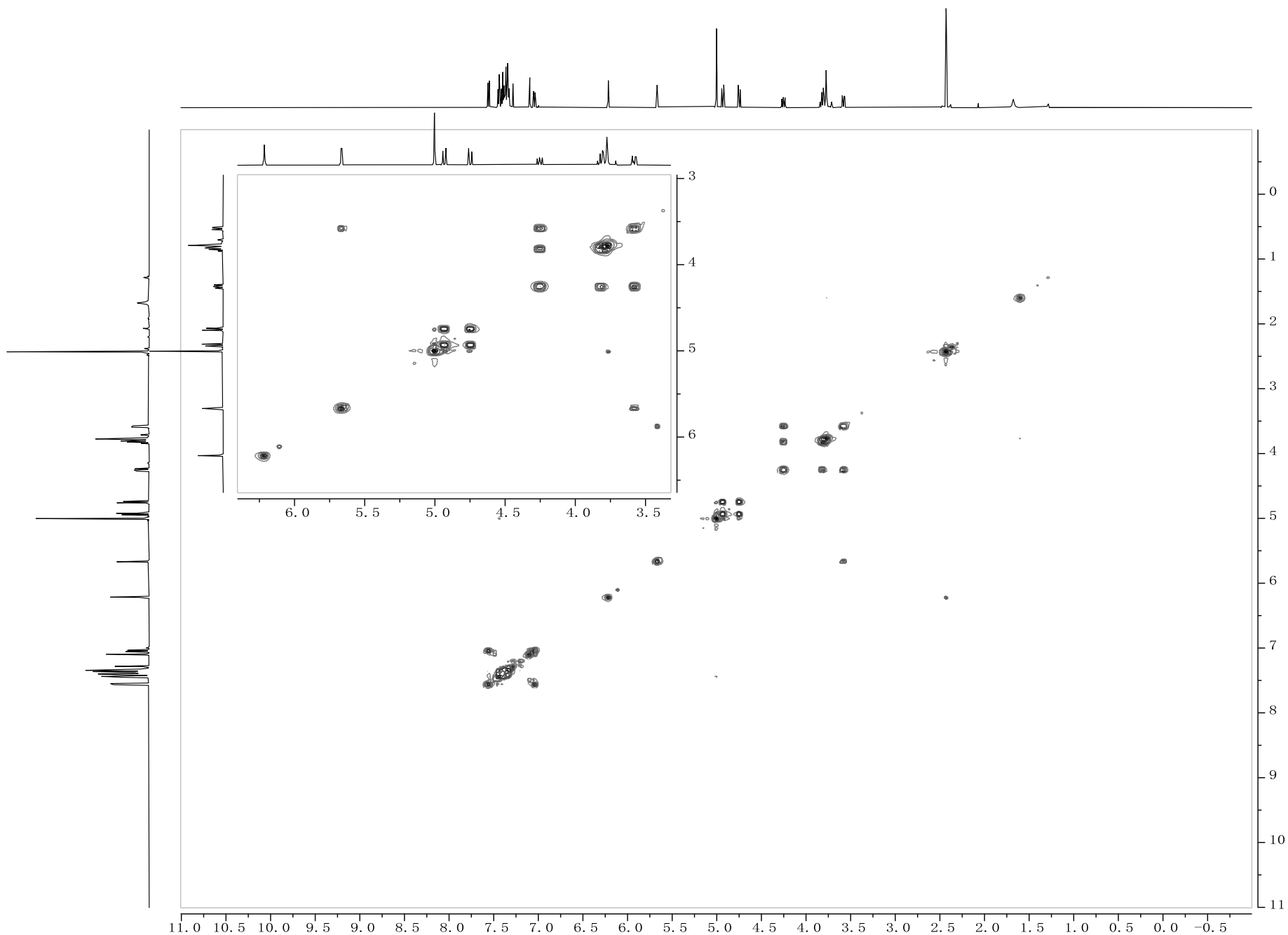
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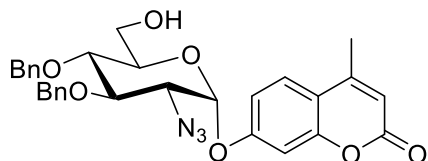
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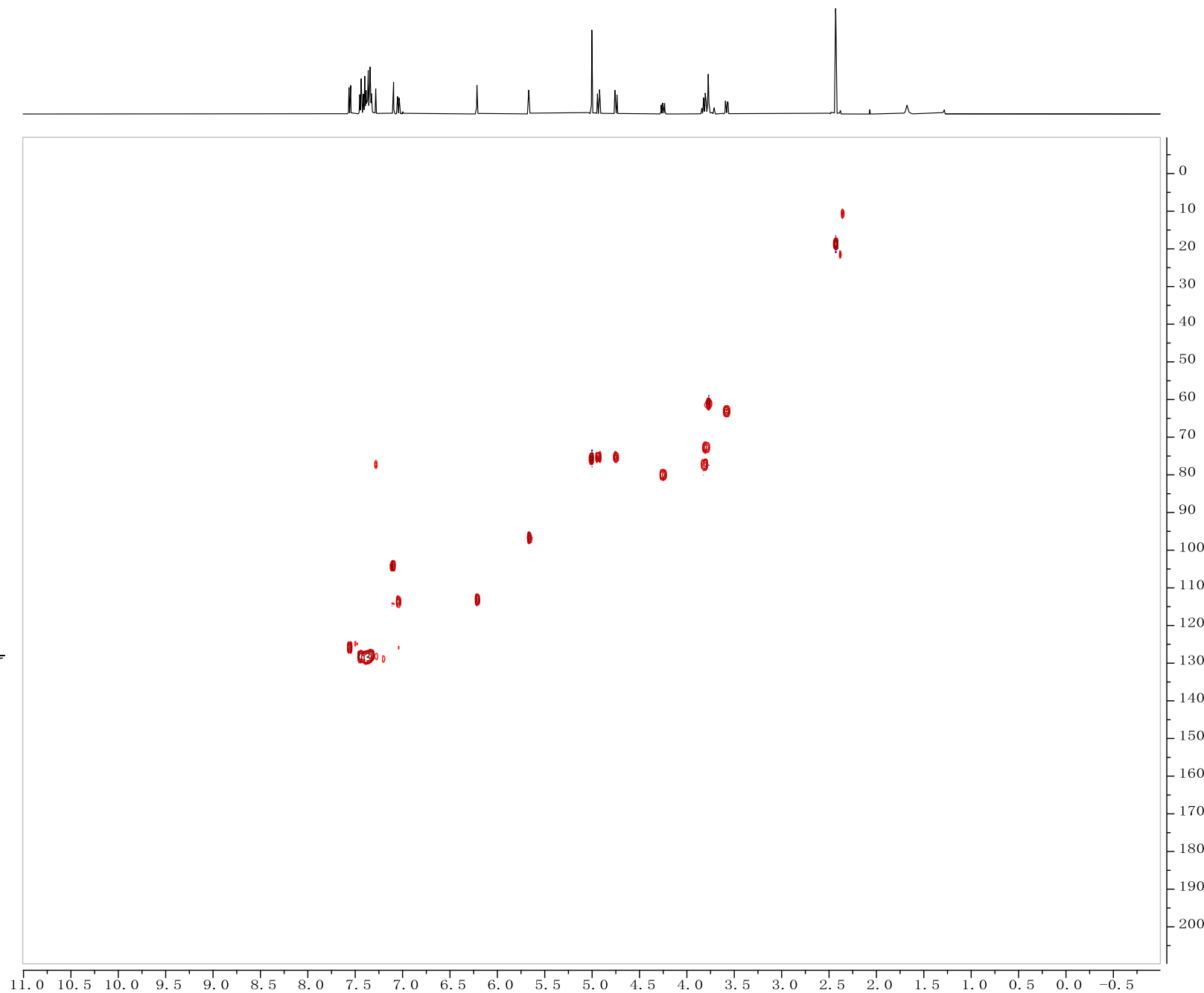


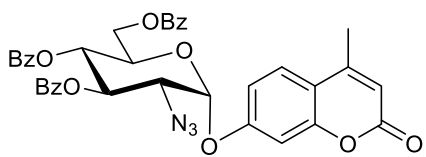
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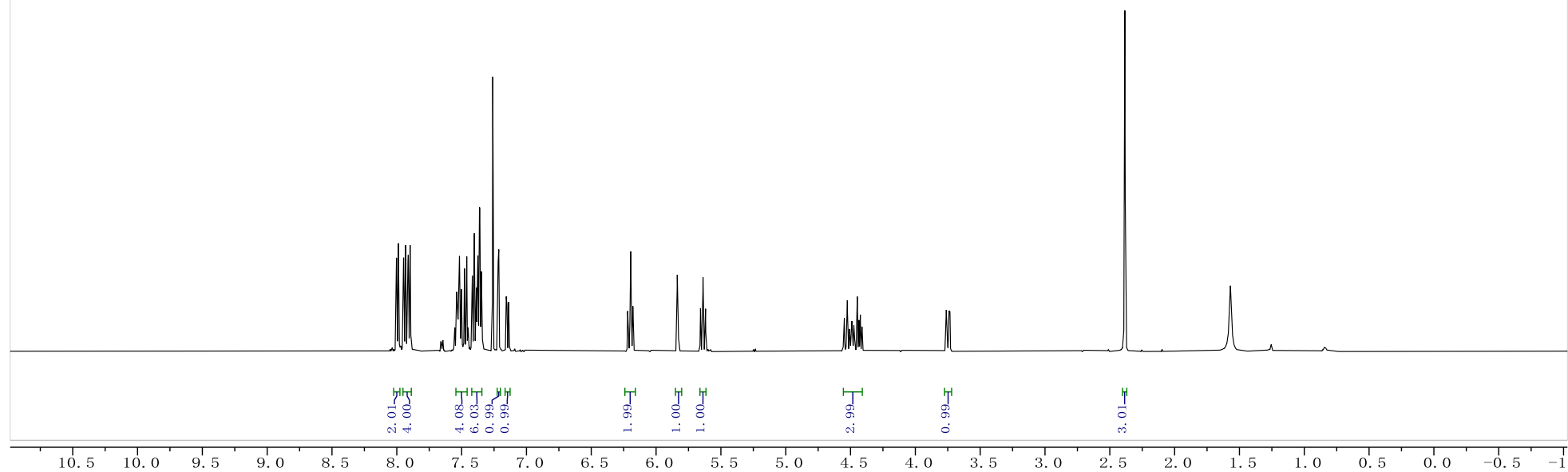
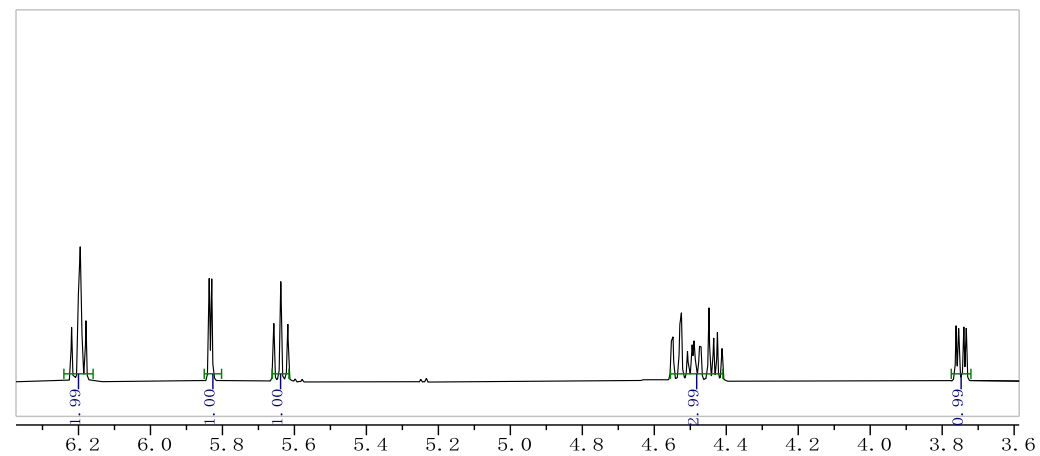
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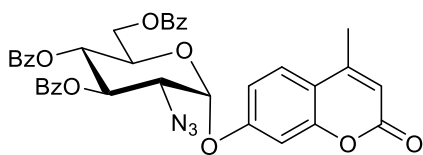


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500 MHz, CDCl₃

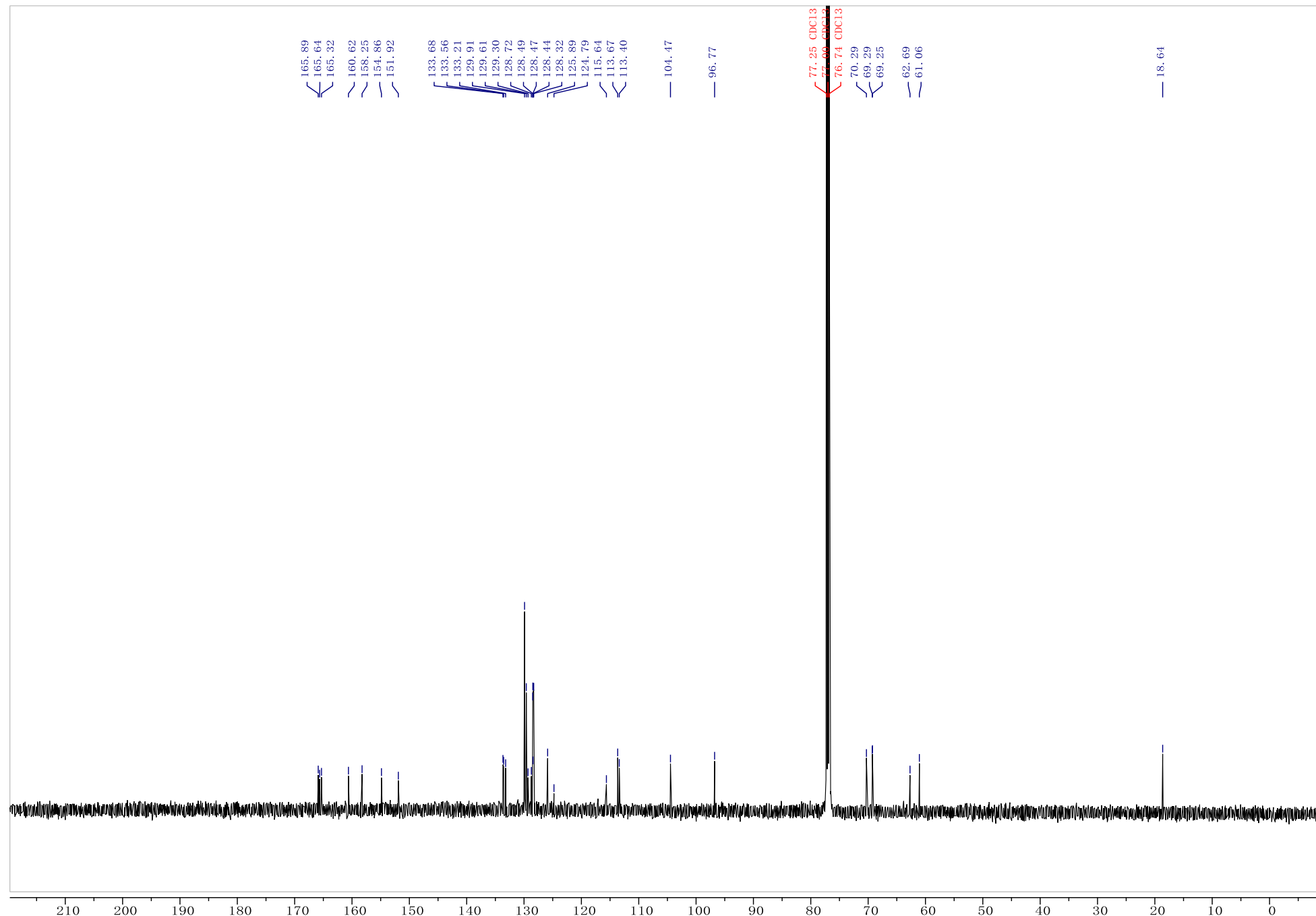


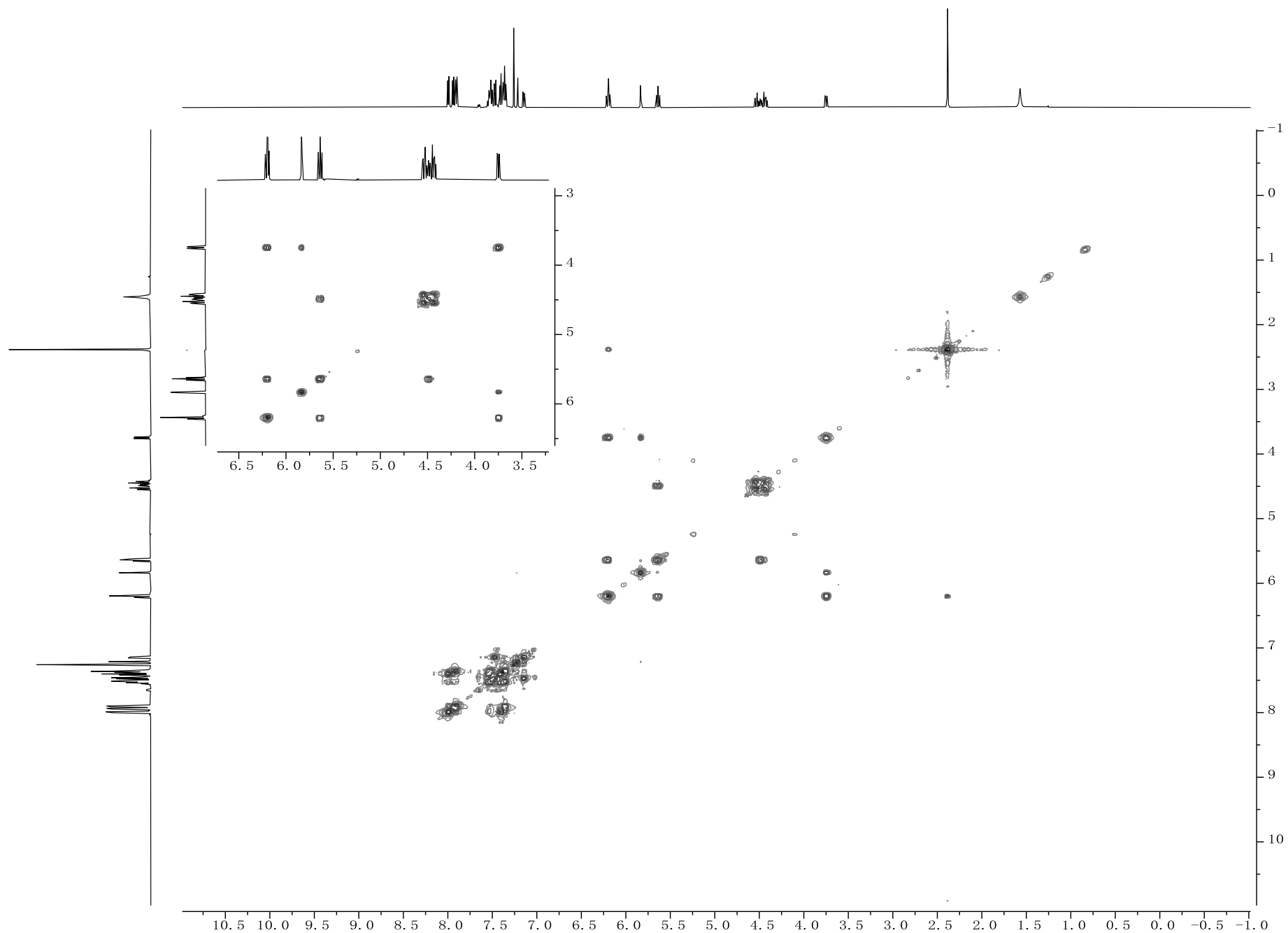
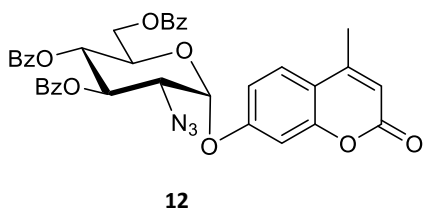
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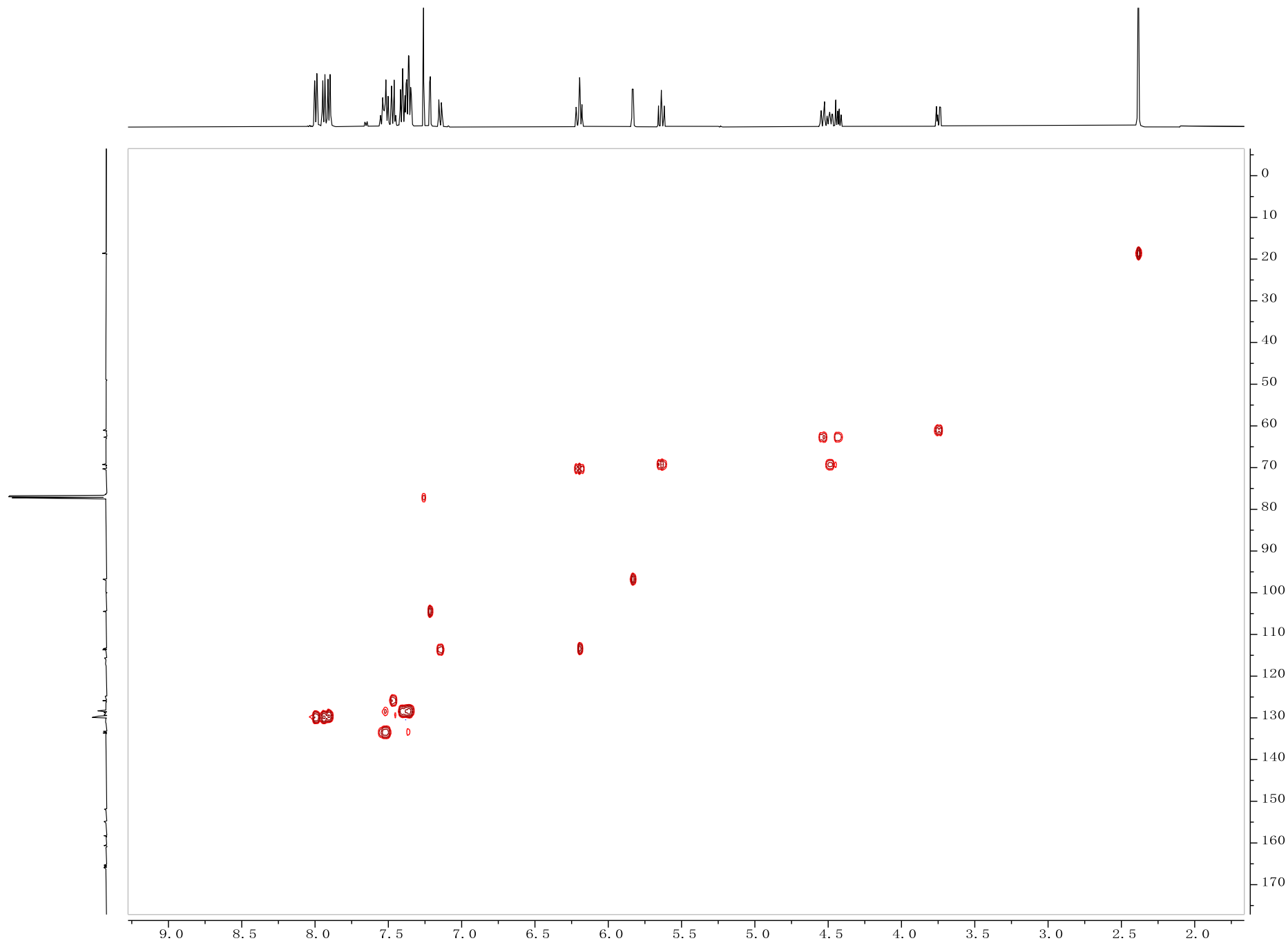
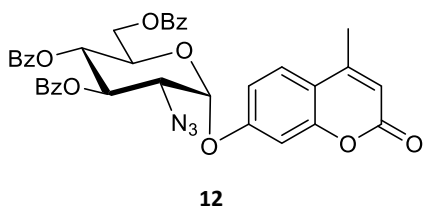


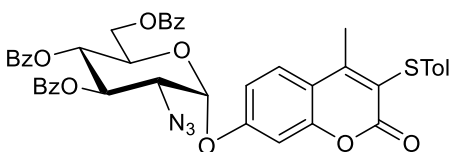
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125 MHz, CDCl₃

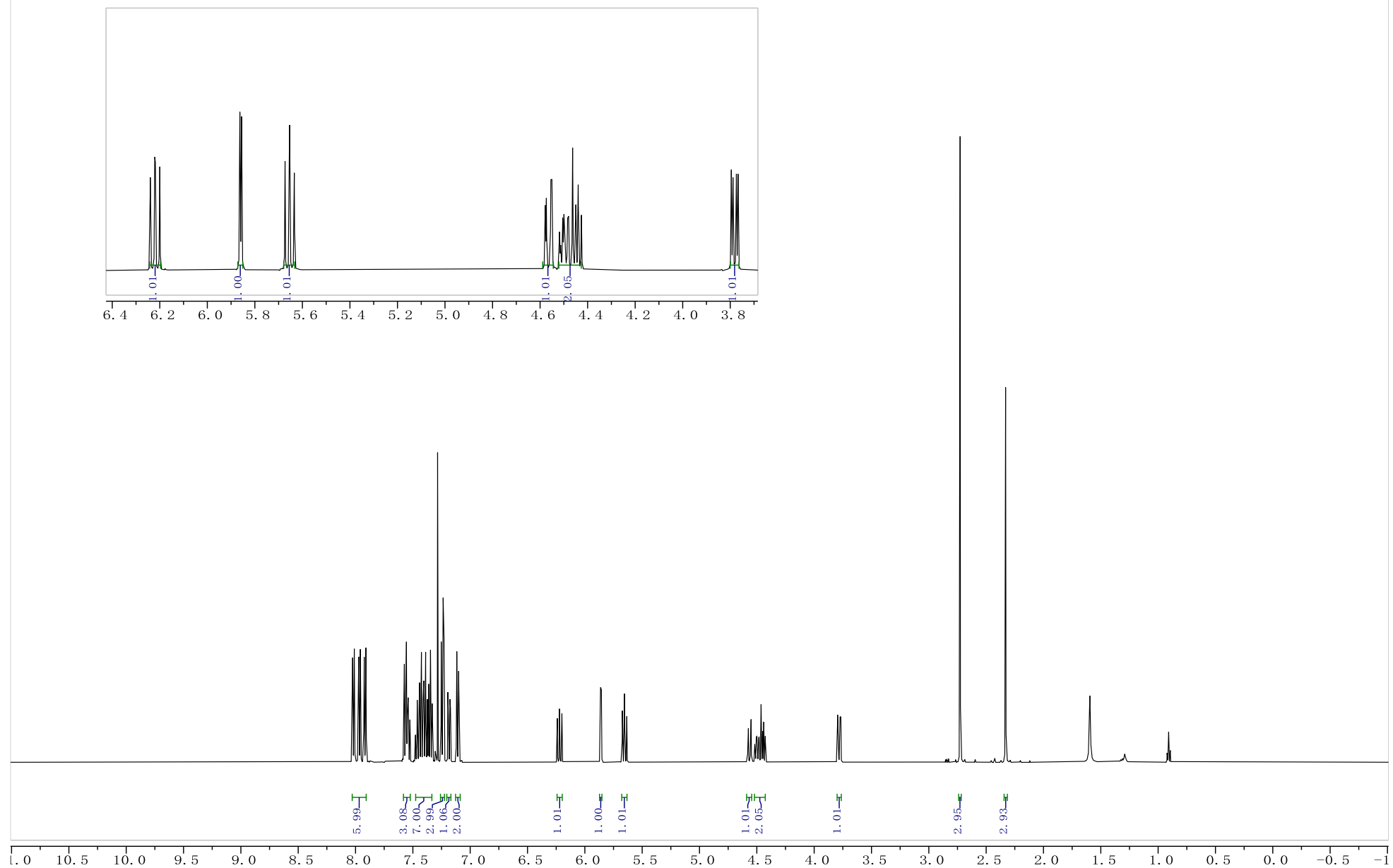


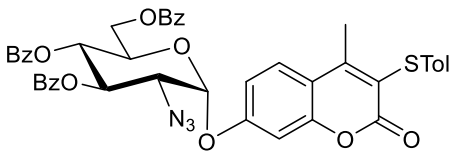




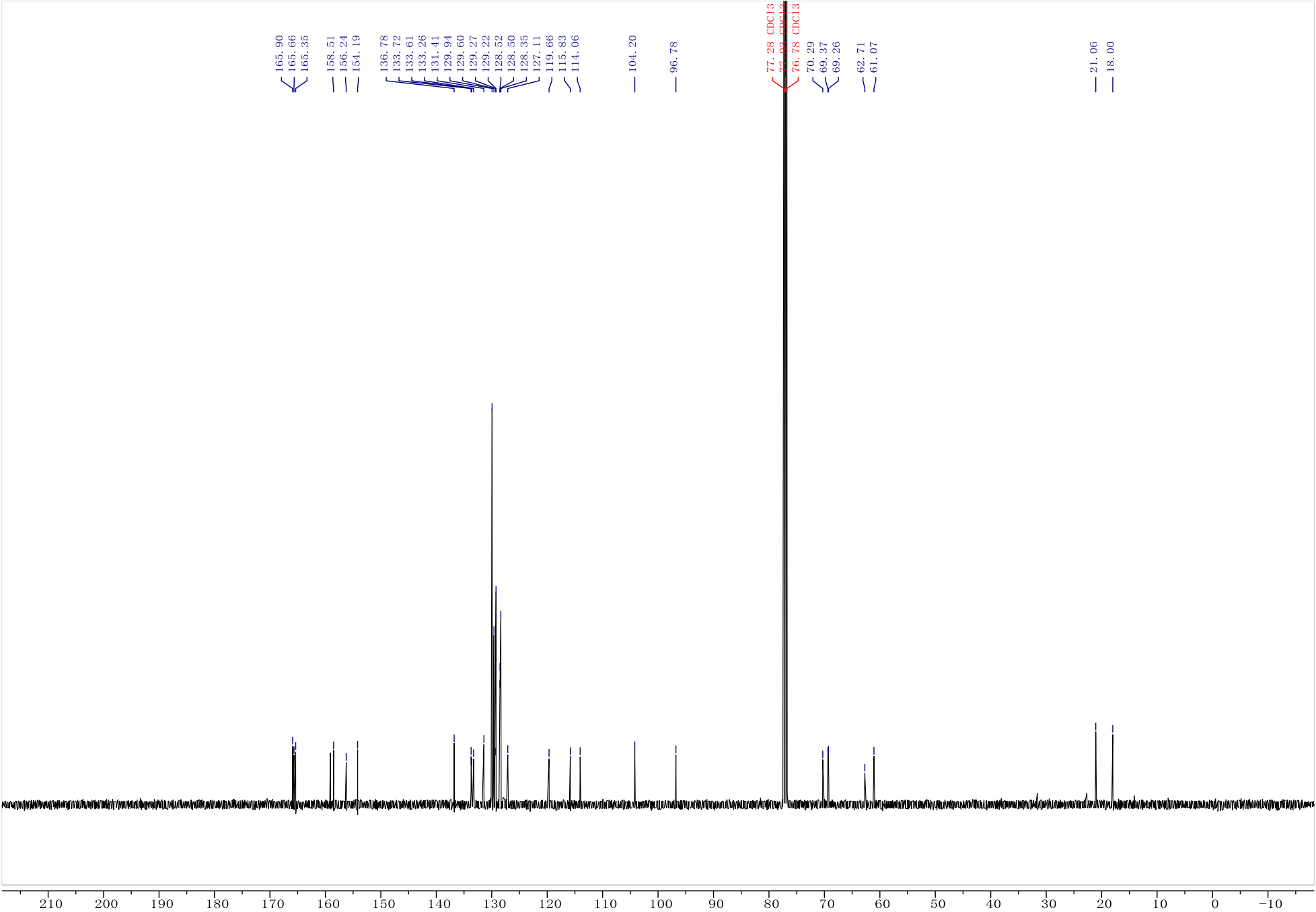


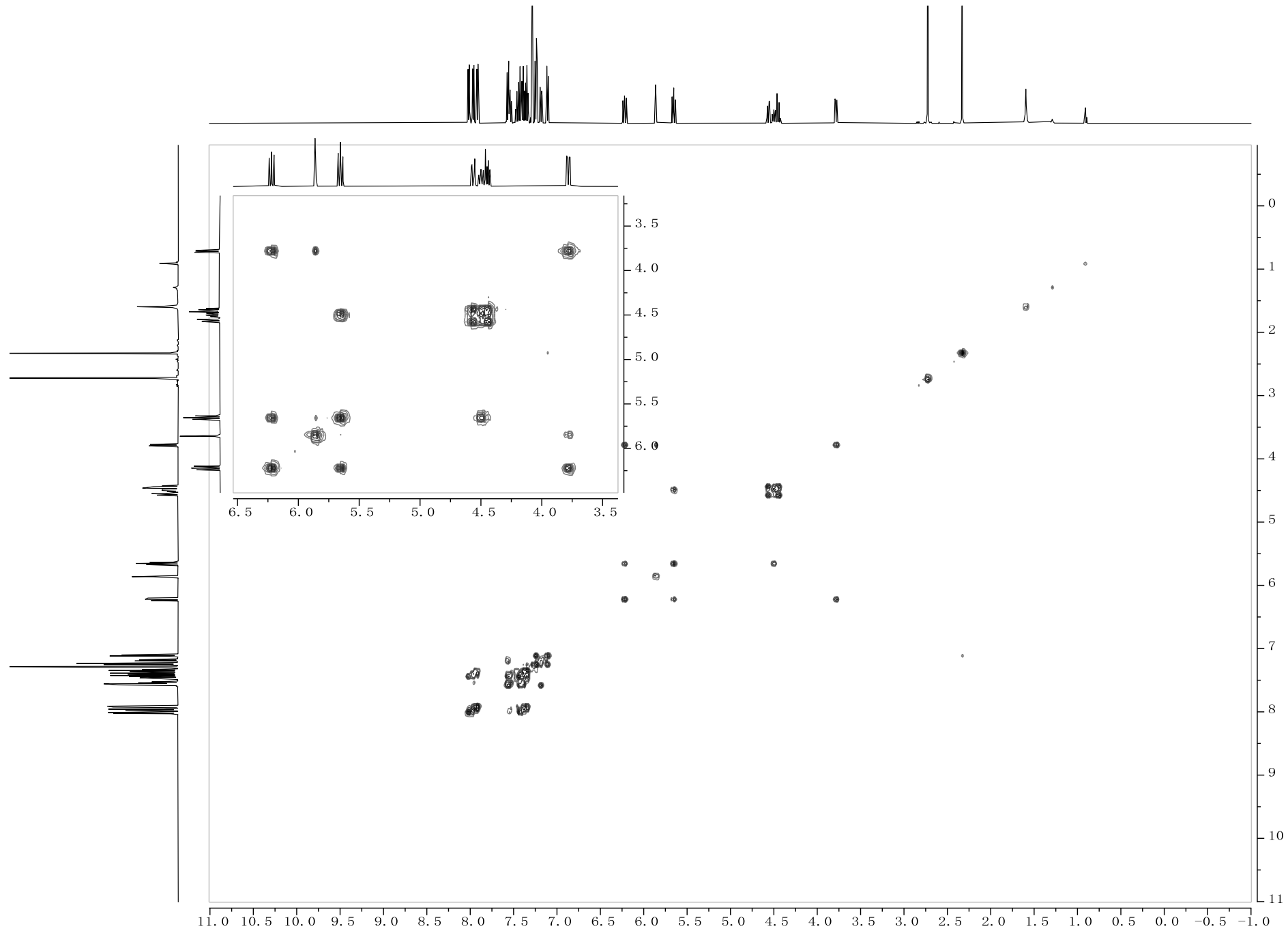
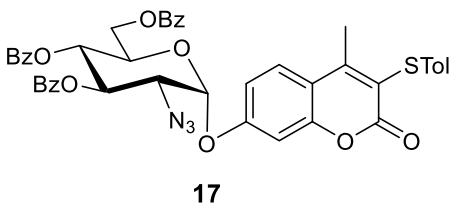
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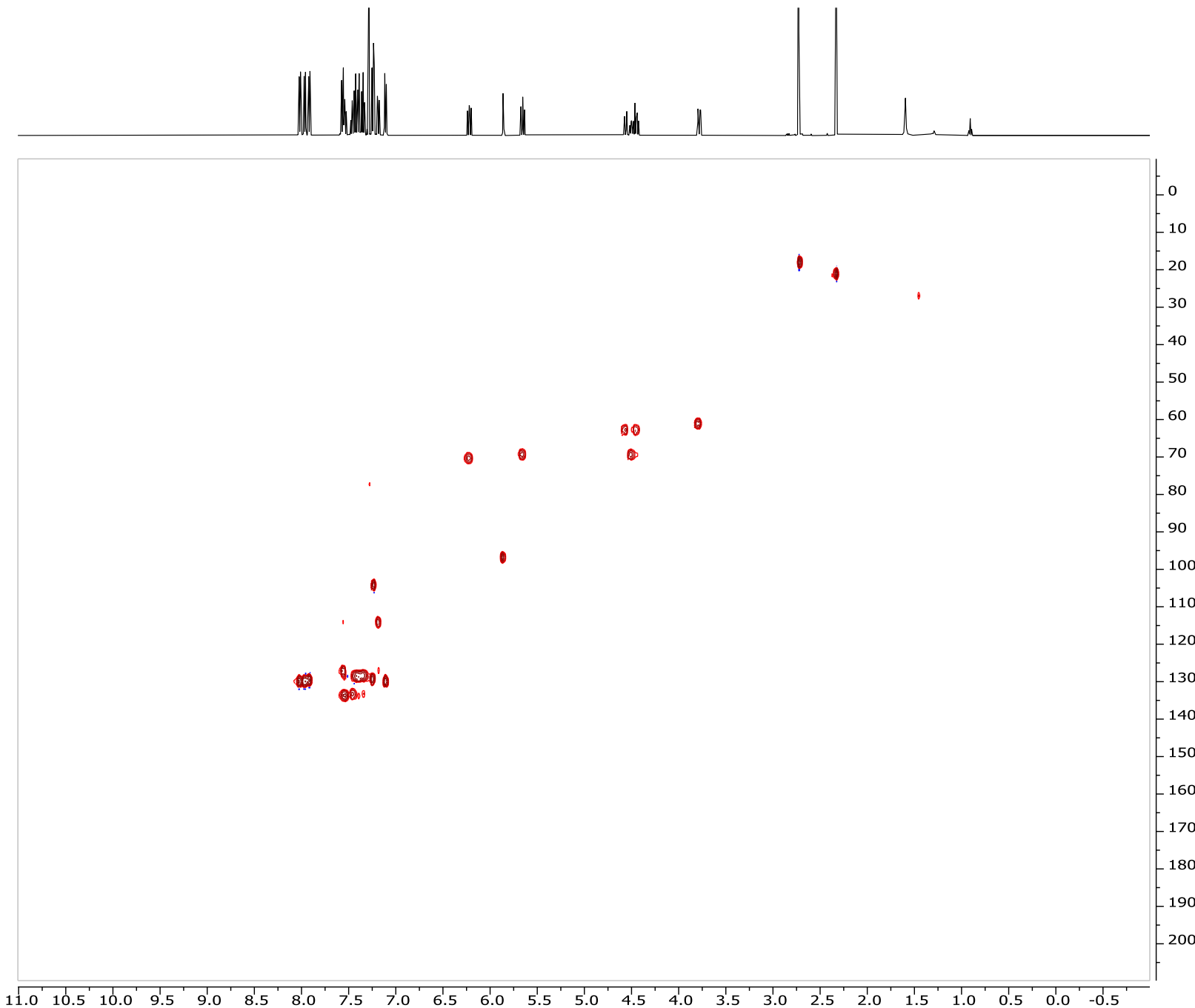
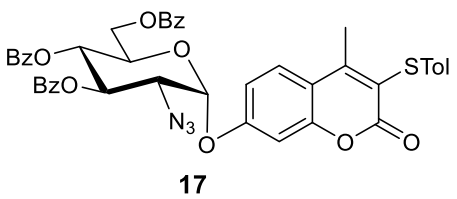


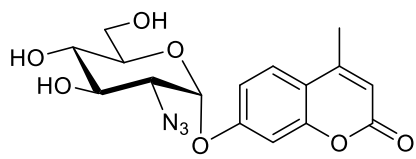


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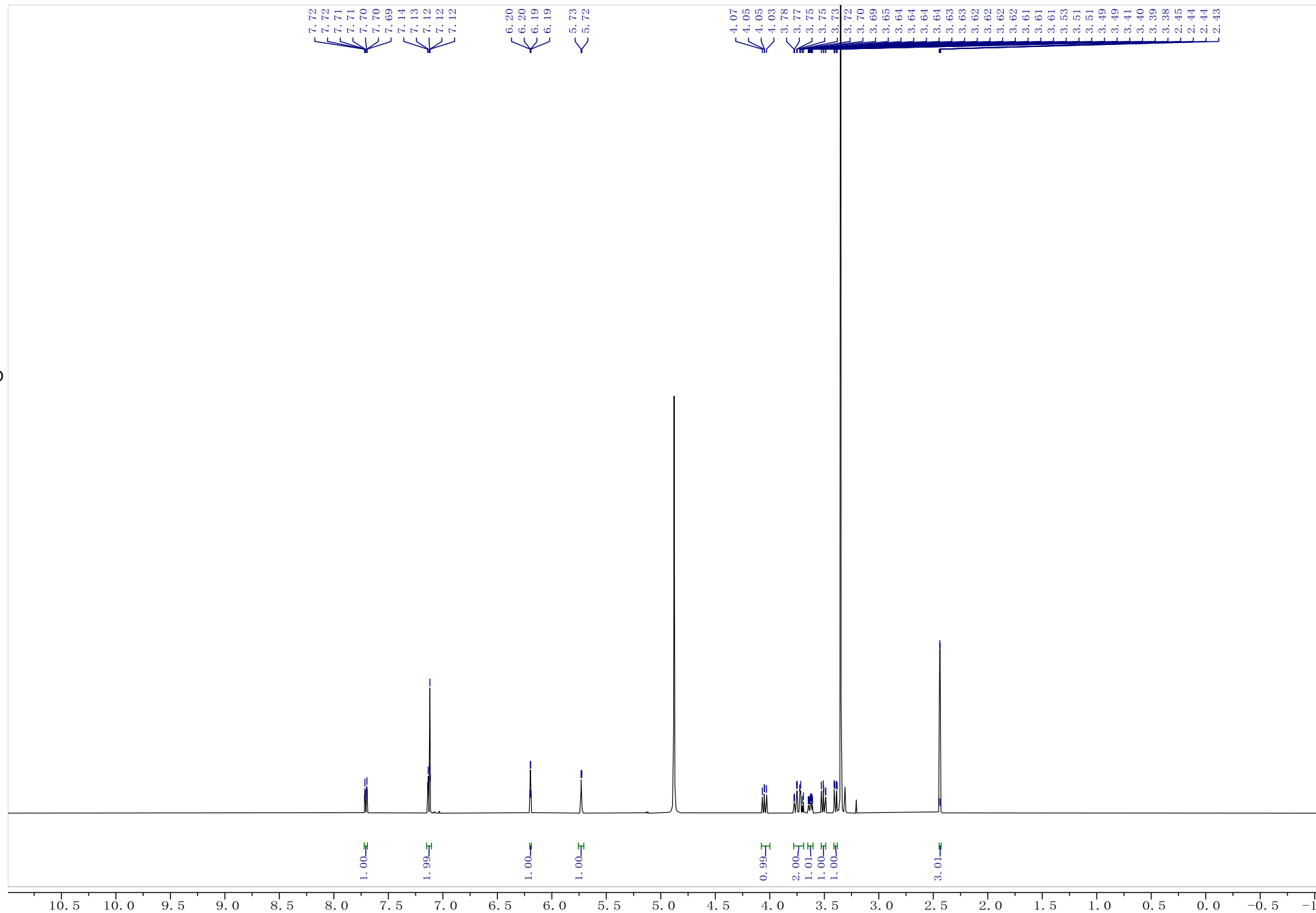


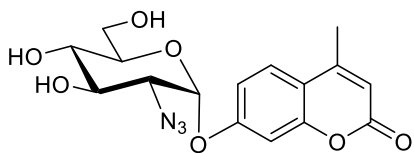




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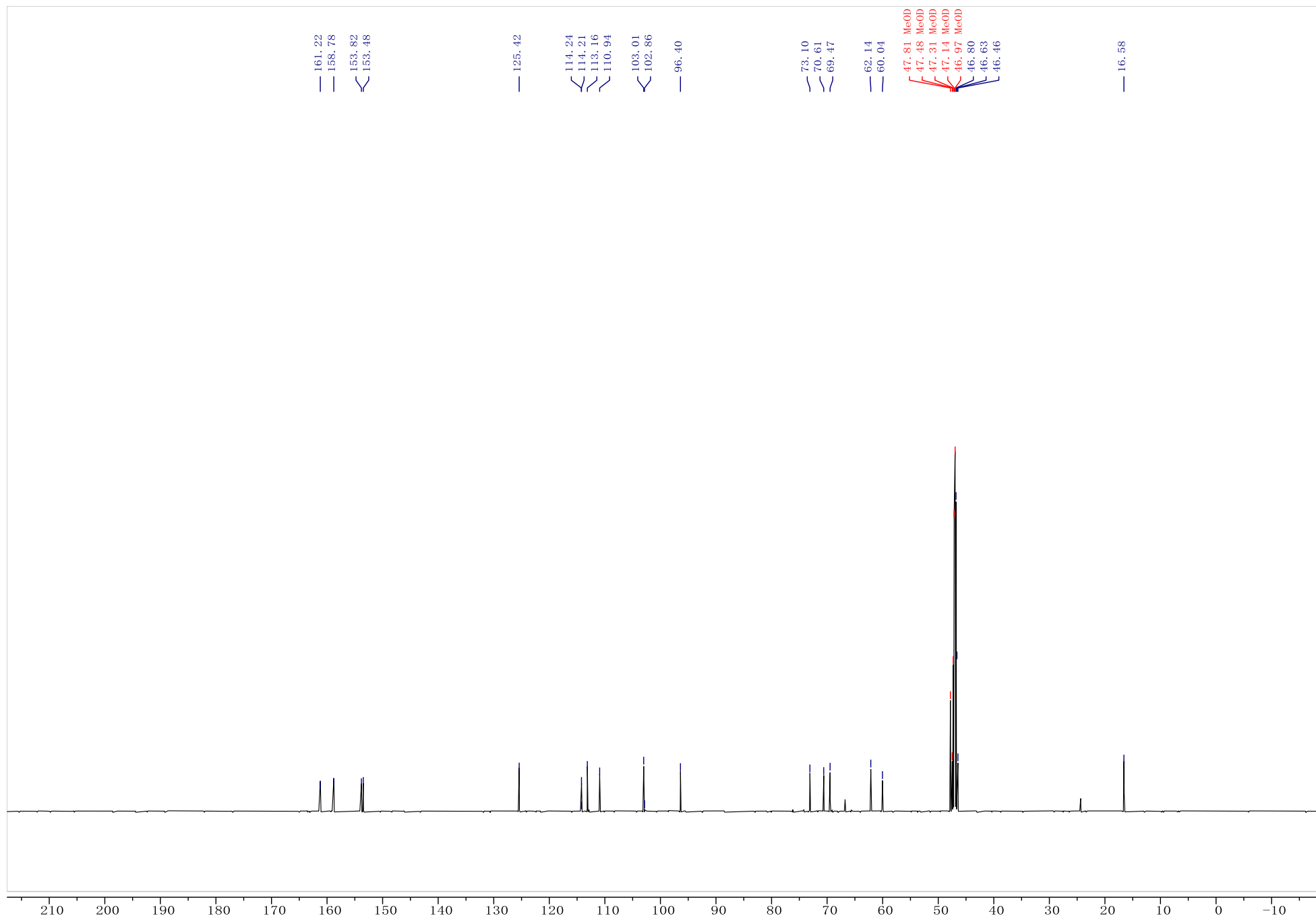
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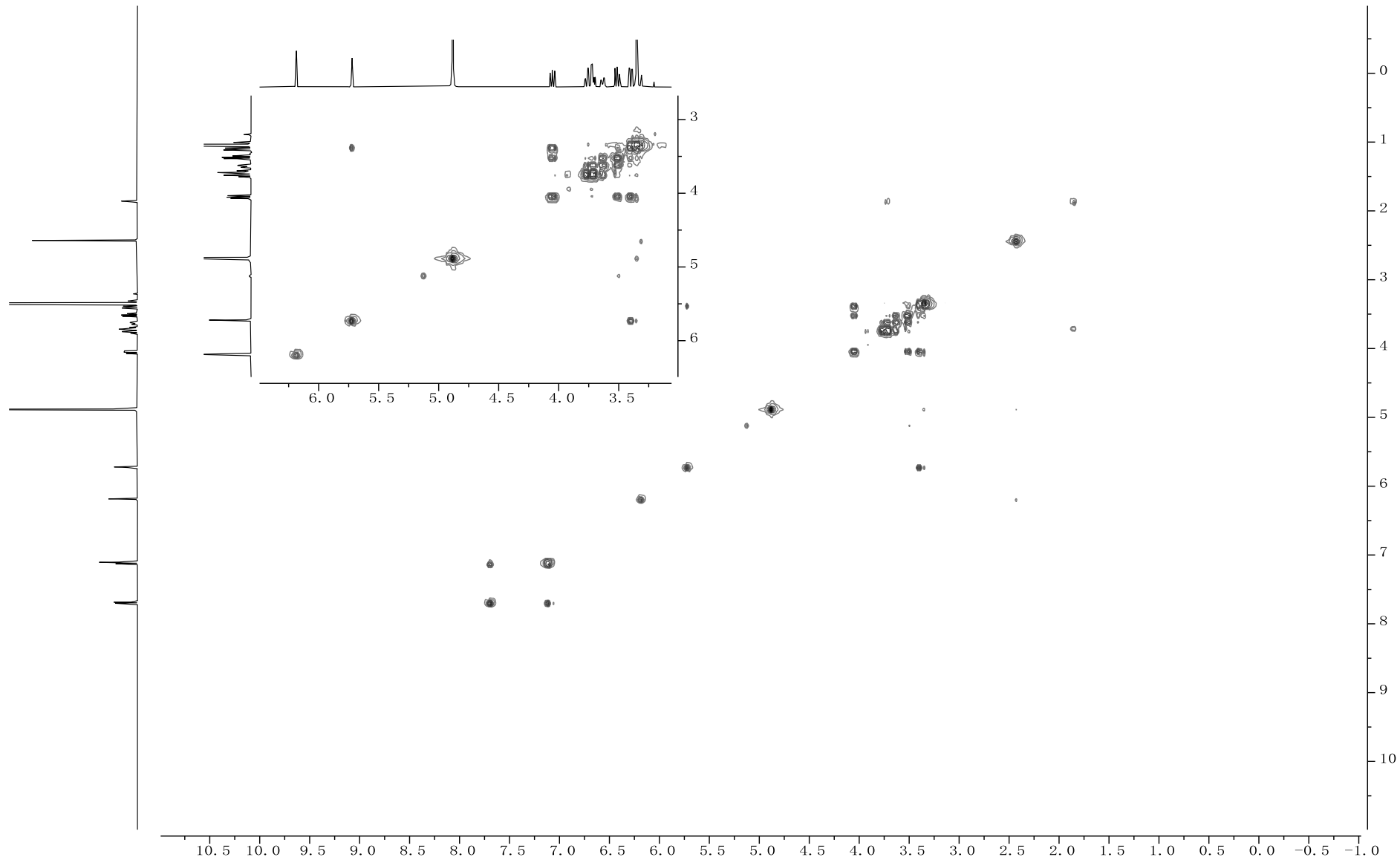
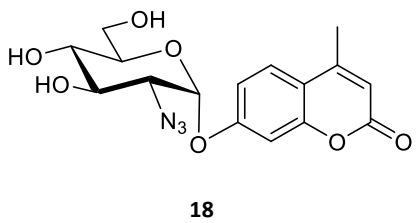


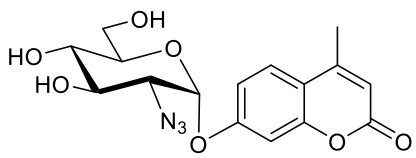


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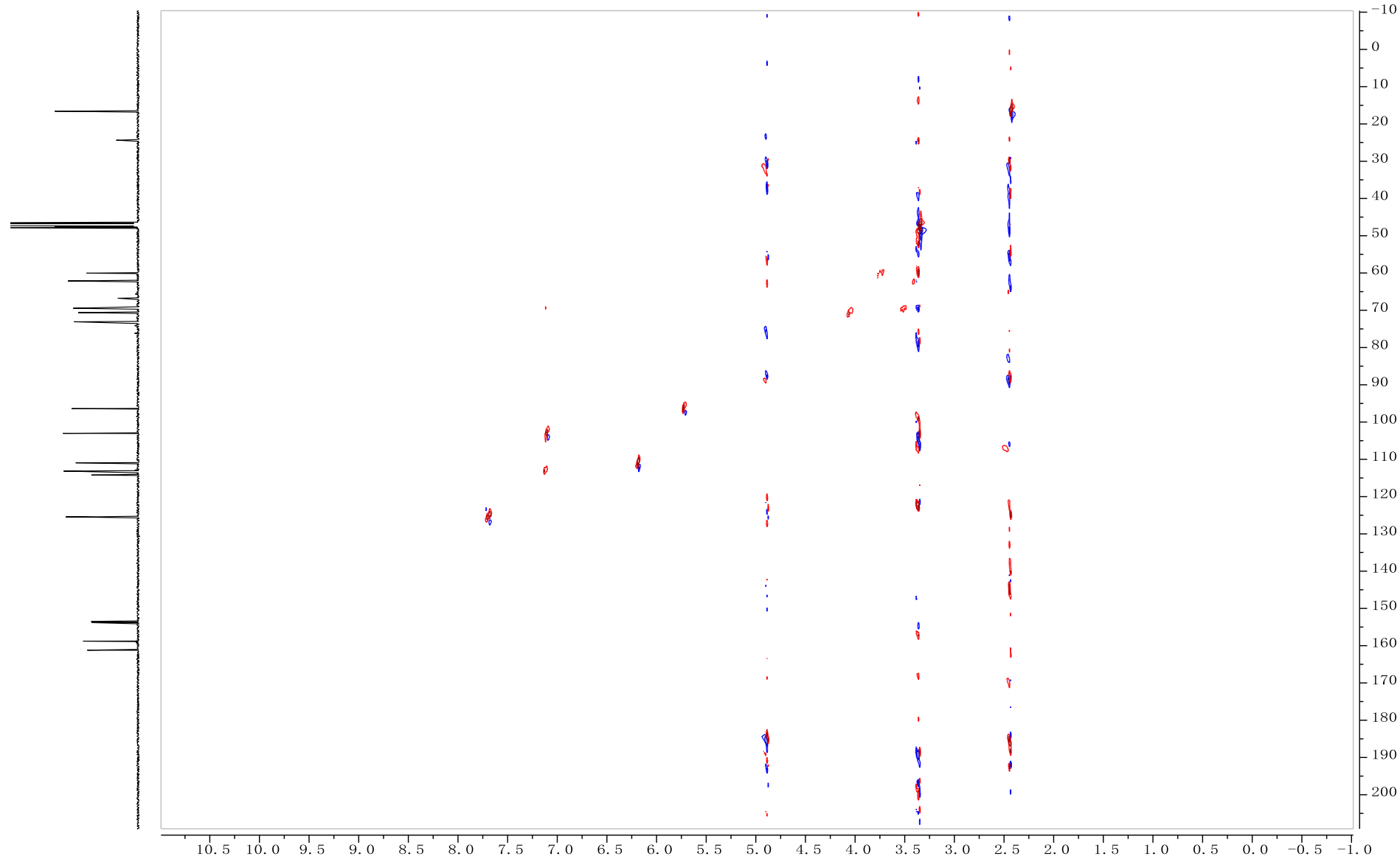
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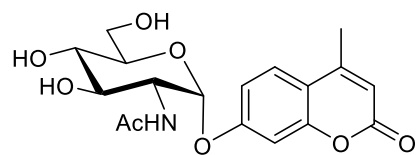






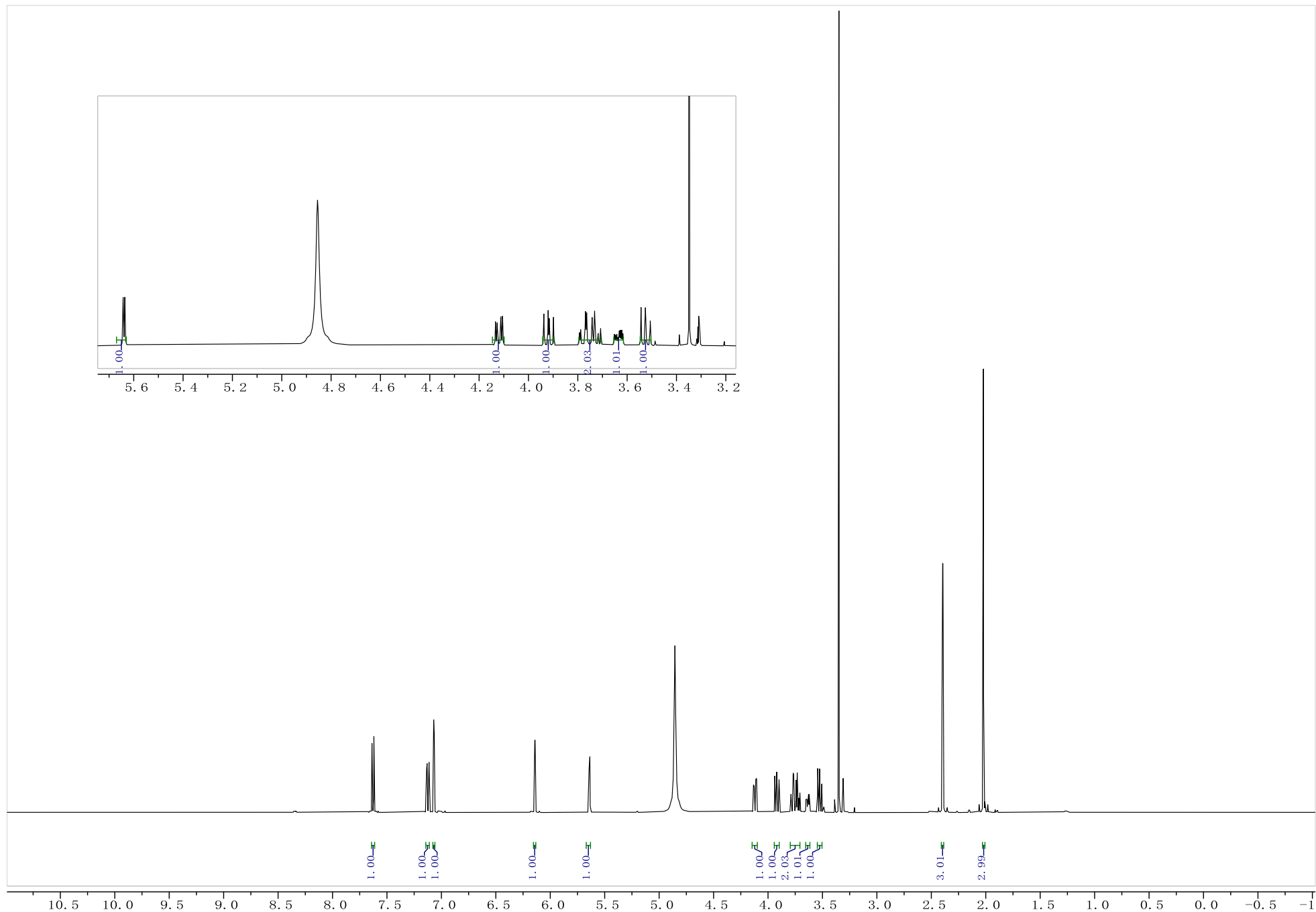
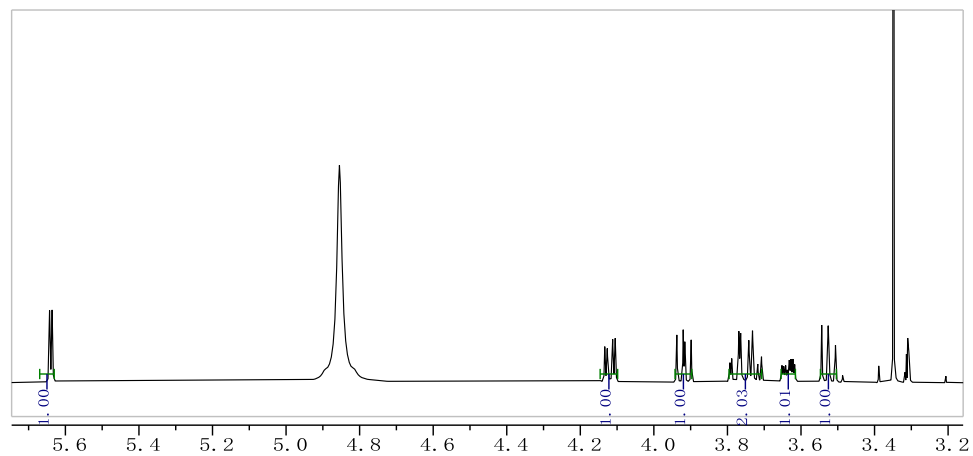
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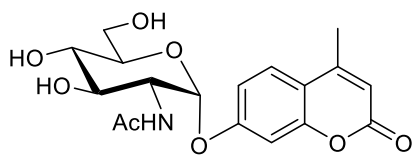




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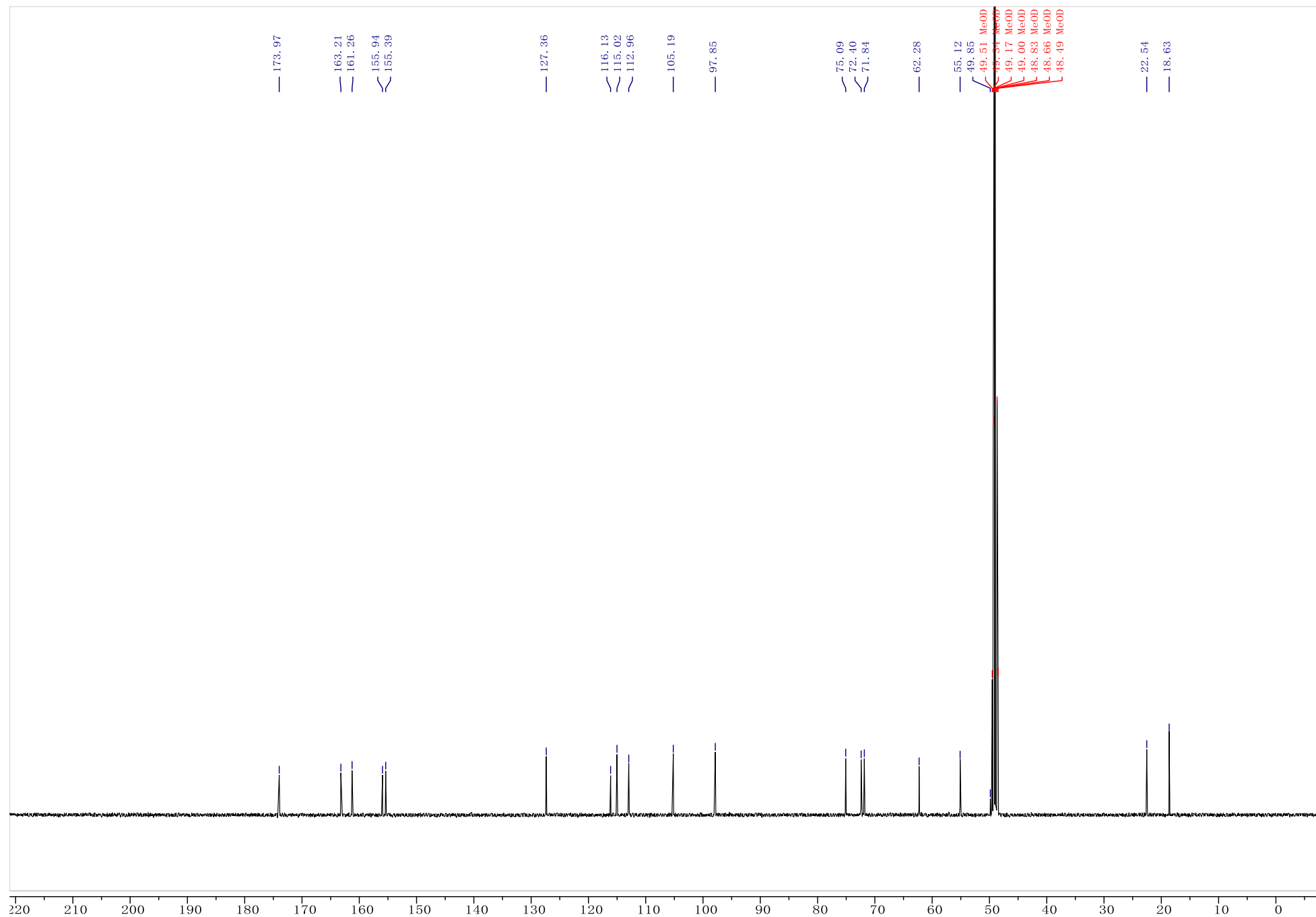
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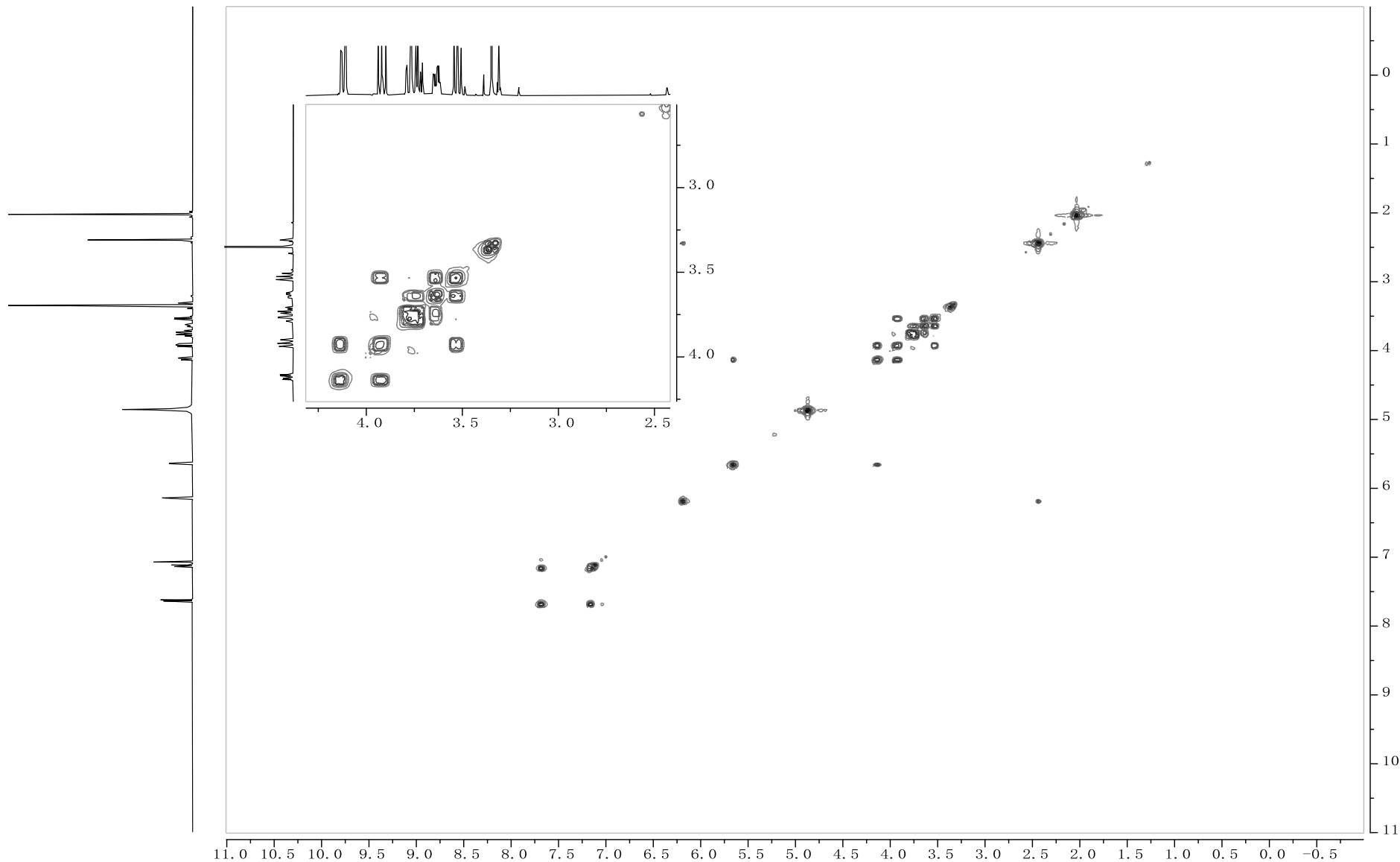
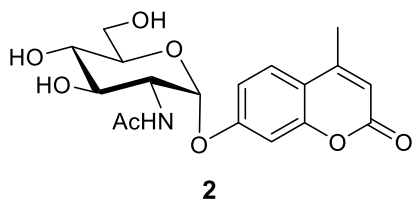


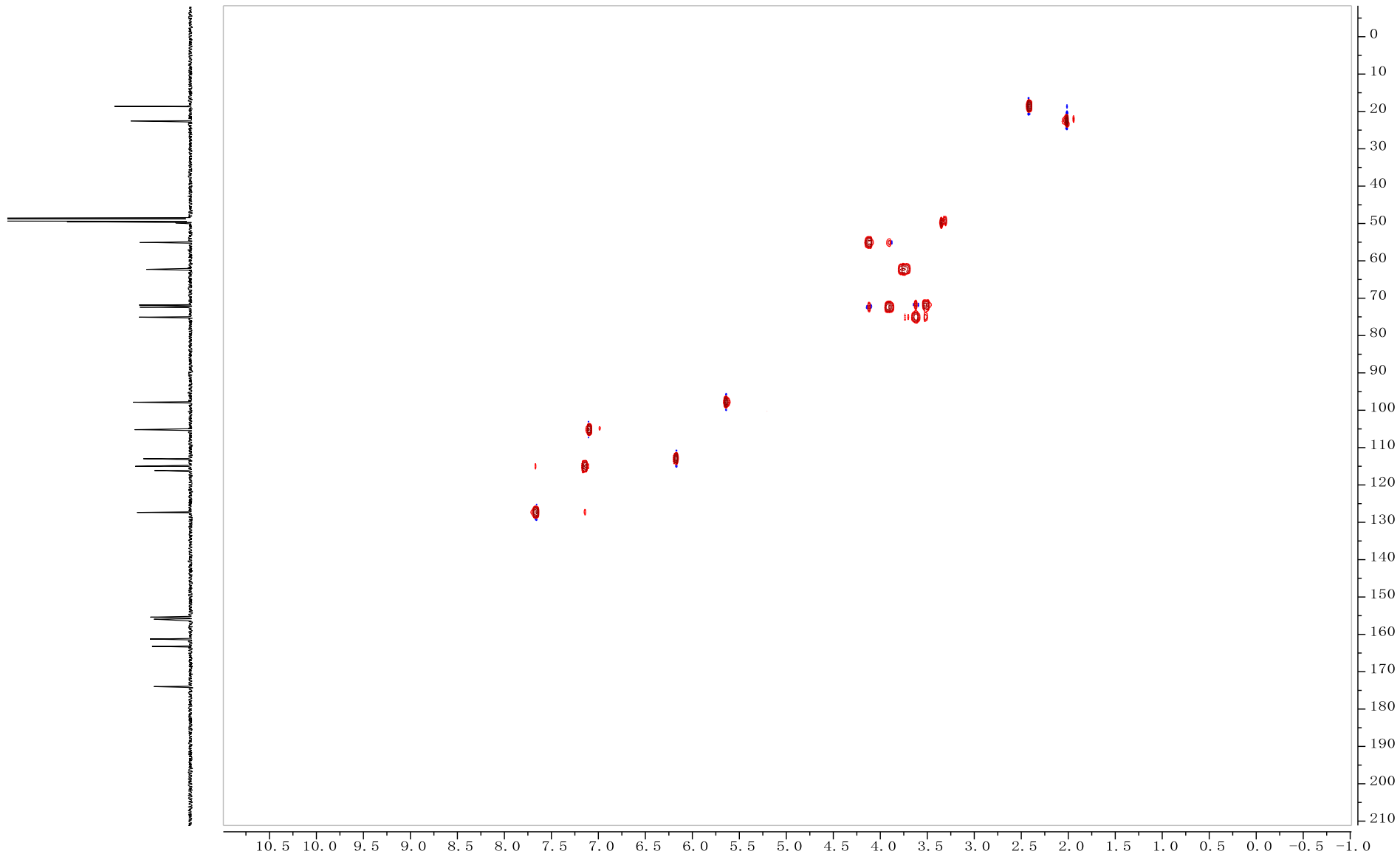
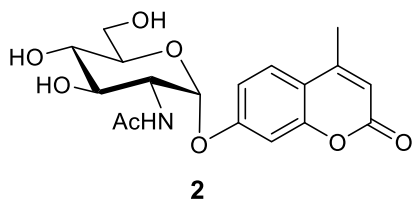


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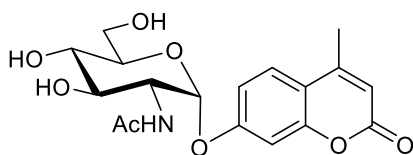
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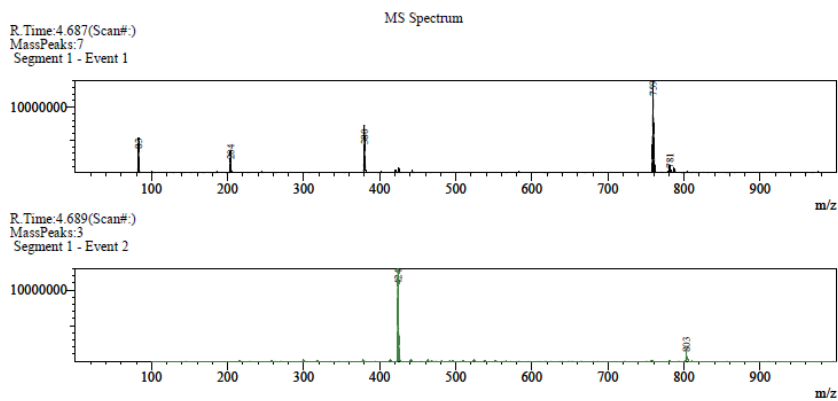
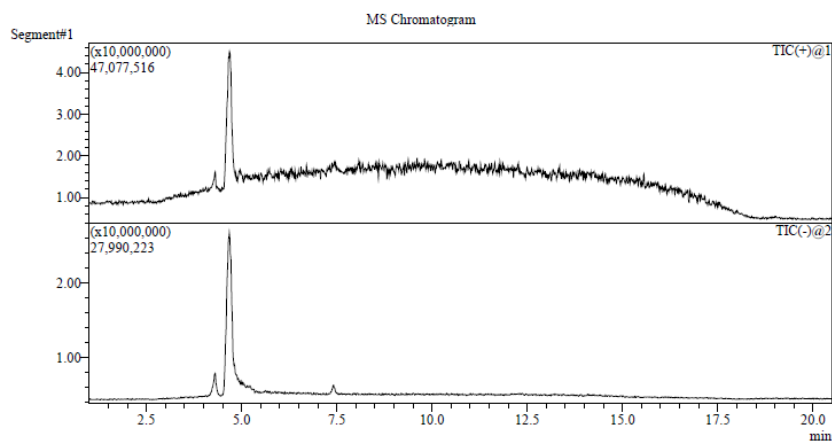


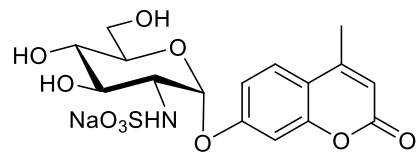


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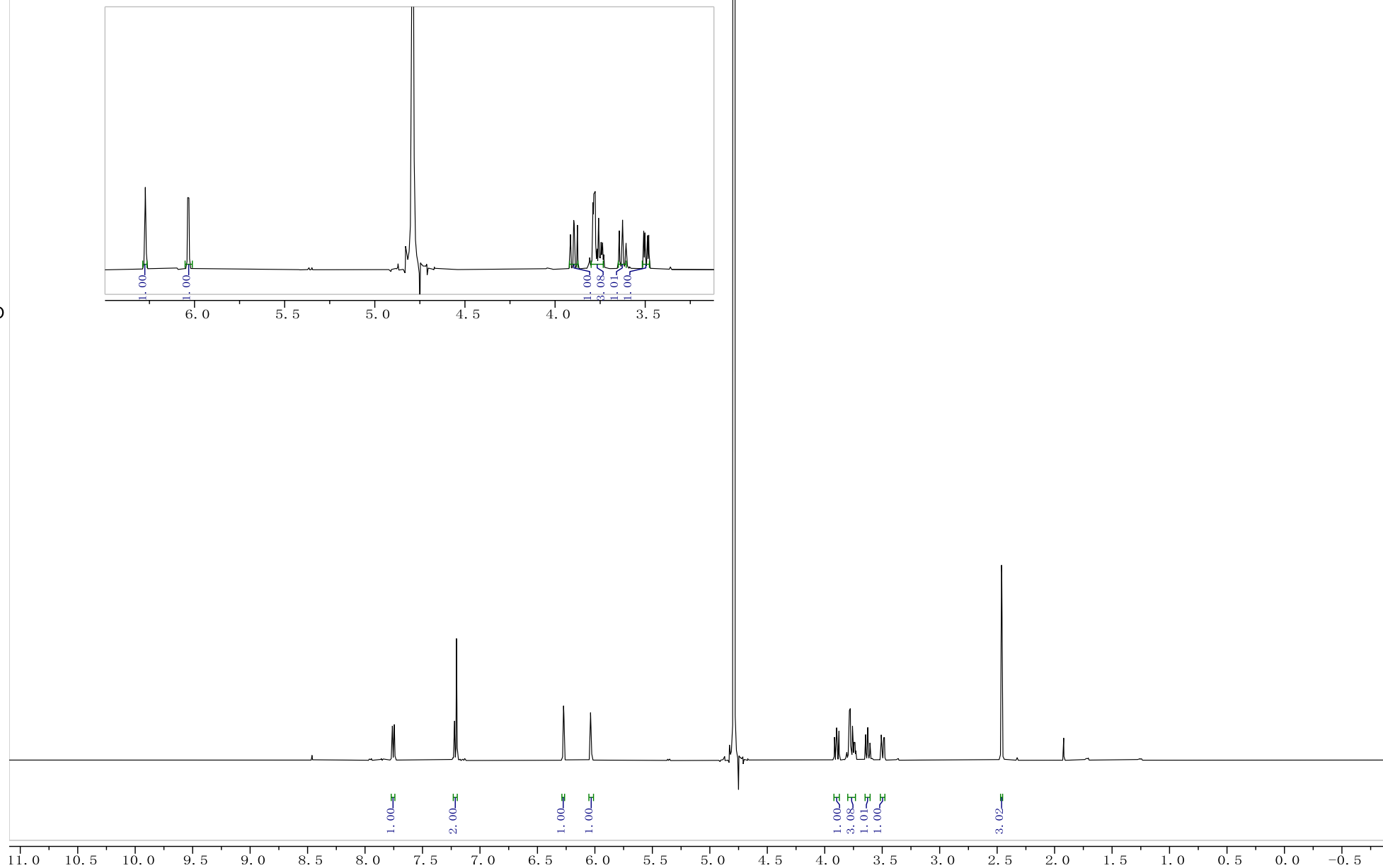
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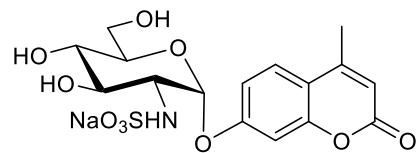




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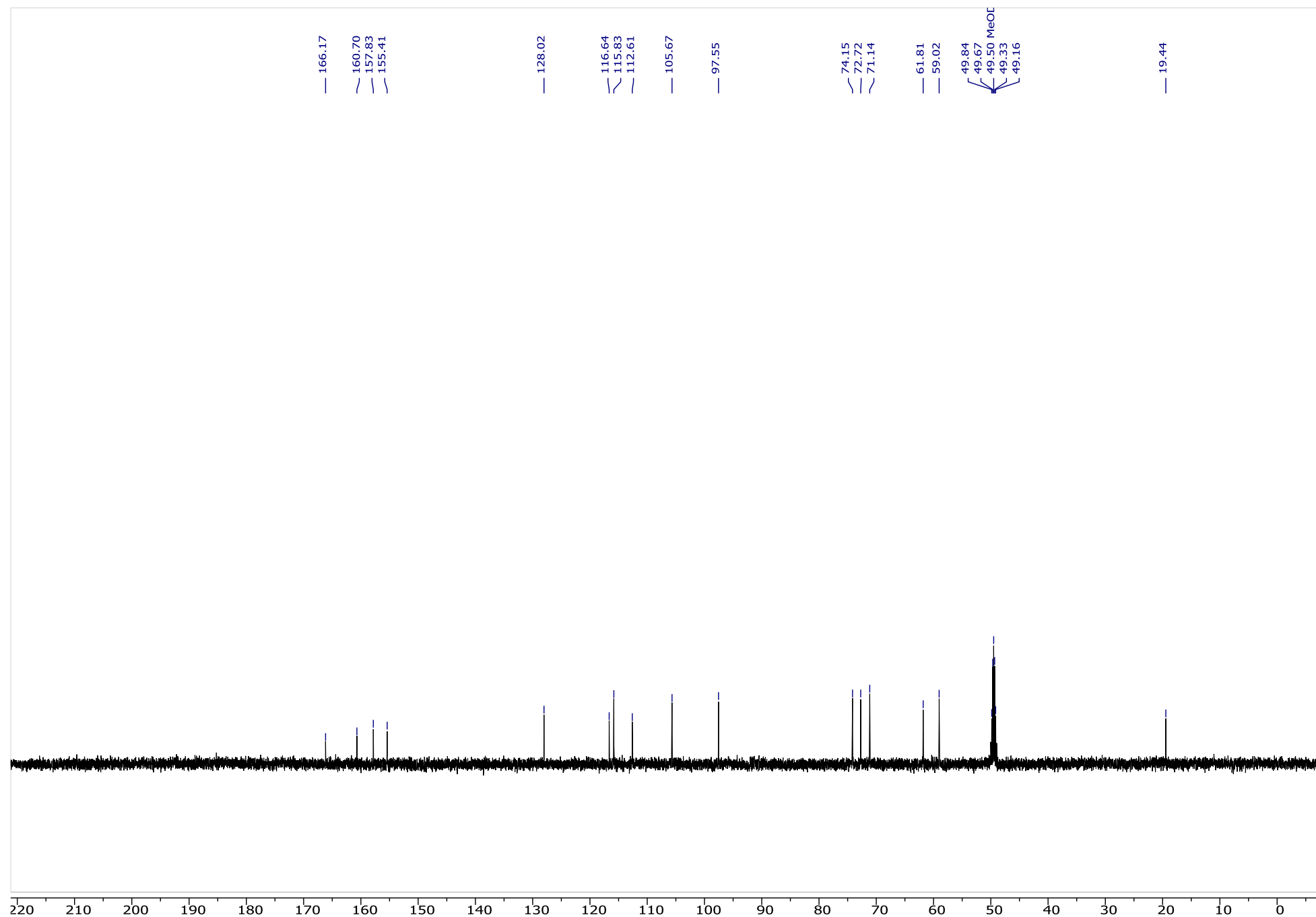
500 MHz, D₂O

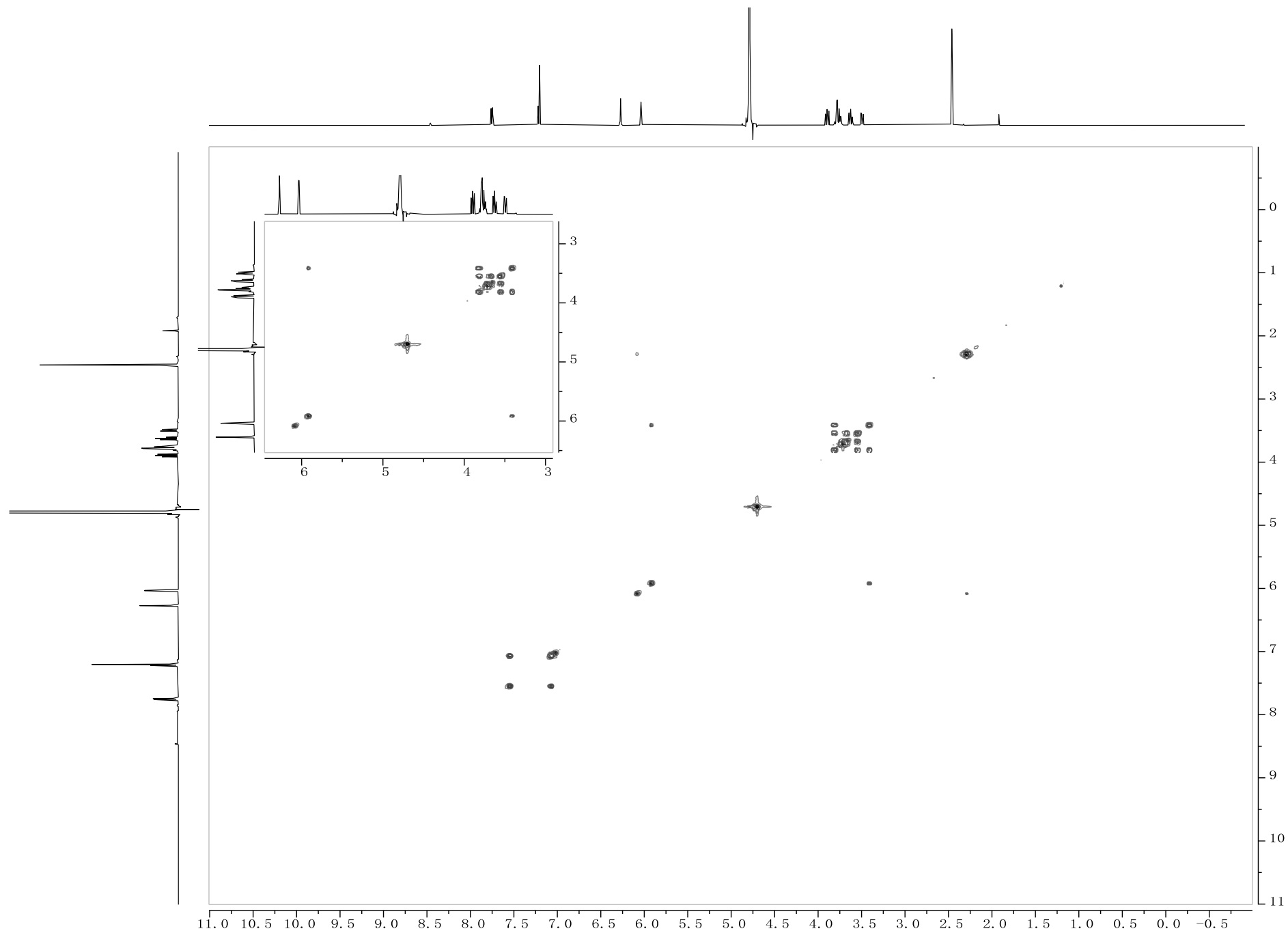
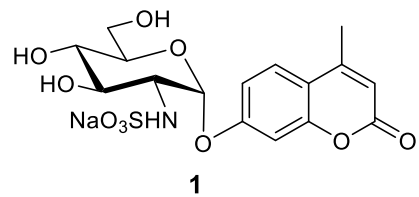


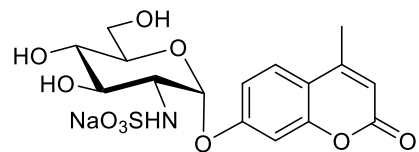


1

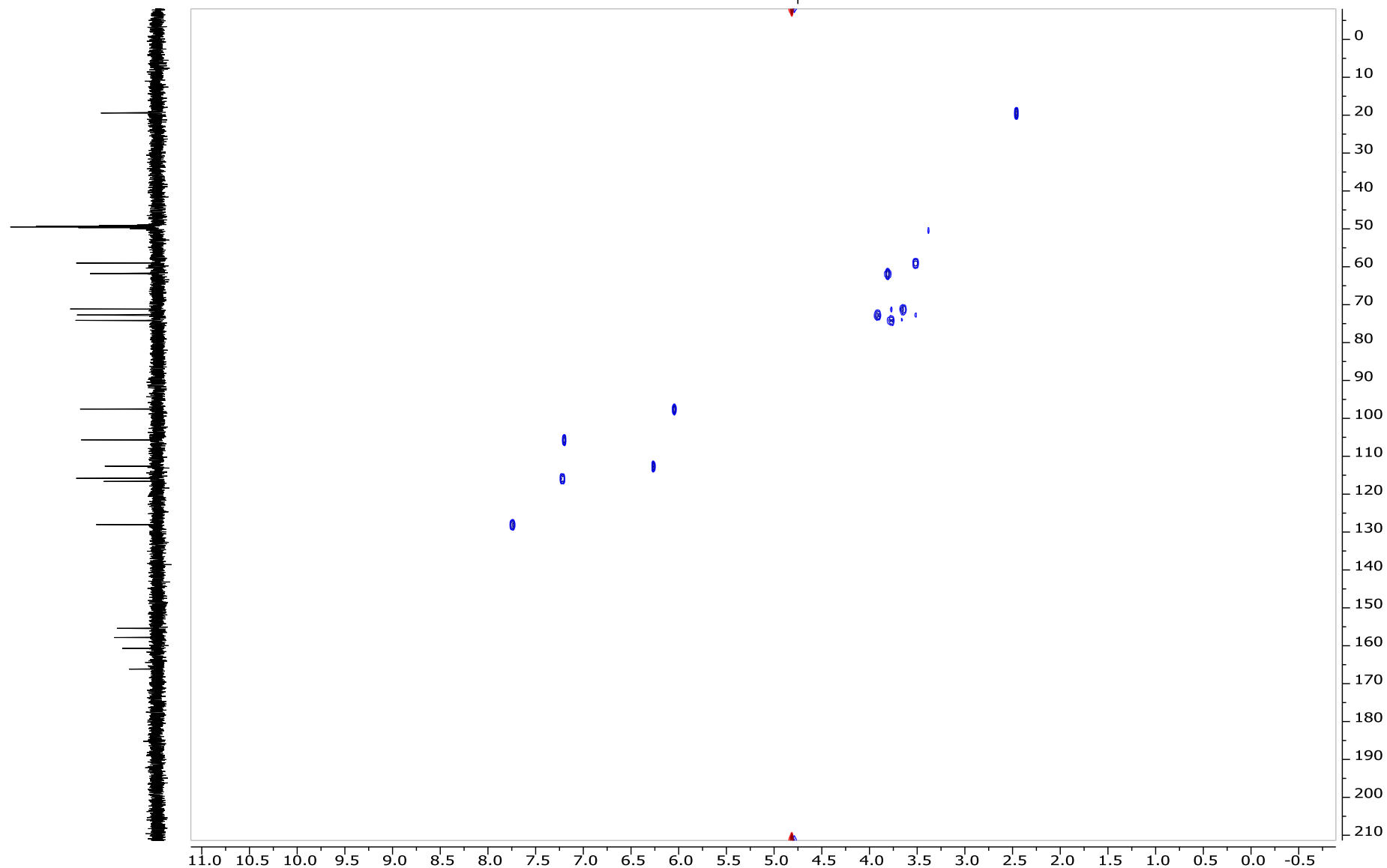
125 MHz, D₂O

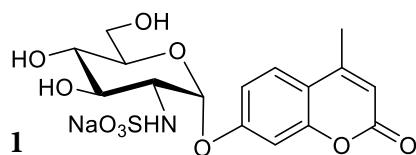






1





Sample Name : YP58 Sample Information Date Acquired : 21/05/2025 5:13:46 PM
 Method File : NEW JDV DL Standard method cut0min 0.35mL C0.lcm

