

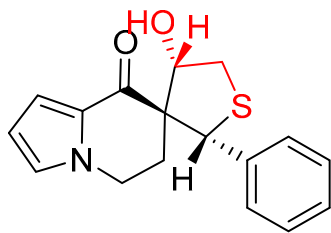
Synthesis of novel 2'-aryl-4'-hydroxy-4',5,5',6-tetrahydro-2'H,8H-spiro[indolizine-7,3'-thiophen]-8-one derivatives via sulfa-Michael/aldol cascade reactions

Yulin Huang¹, Guihua Tang¹, Demin Ren¹, Ju-Lan Zeng², Xiaofang Li^{1*}

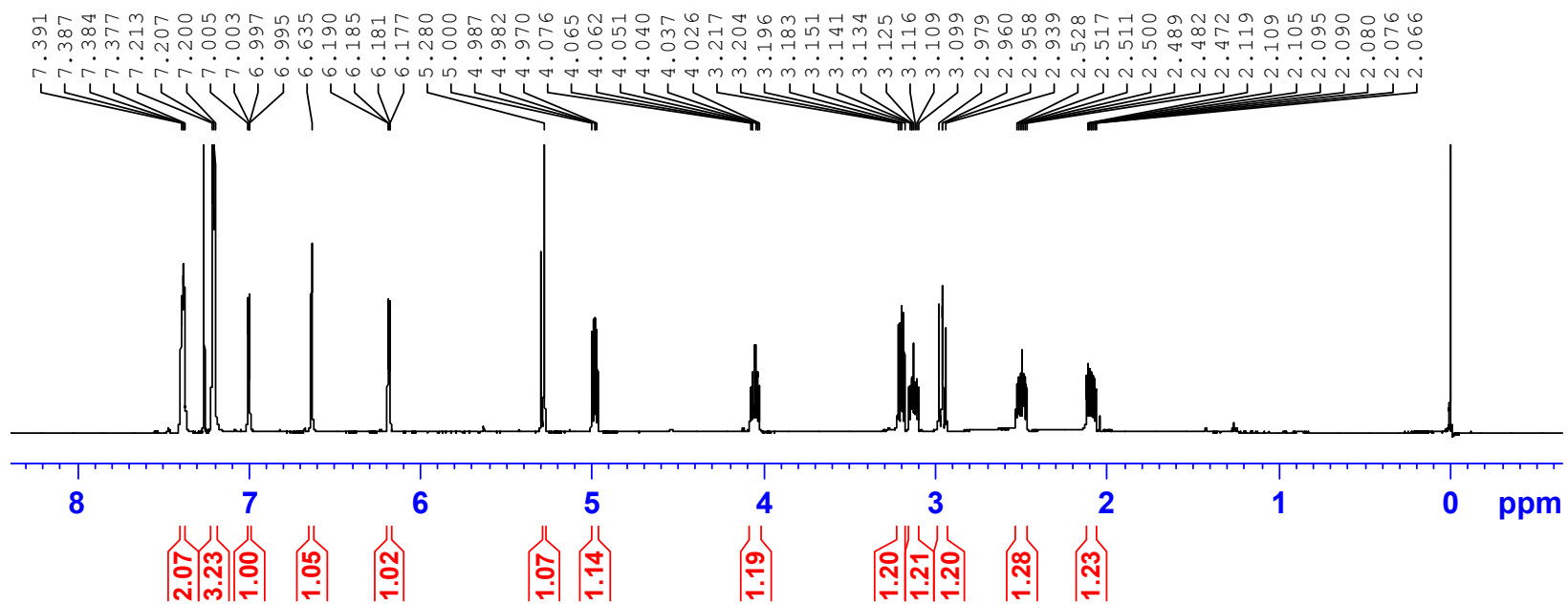
¹ *Key Laboratory of Theoretical Organic Chemistry and Functional Molecules, Ministry of Education, School of Chemistry and Chemical Engineering, Hunan University of Science and Technology, Xiangtan, Hunan 411201, China; e-mail: 850468131@qq.com*

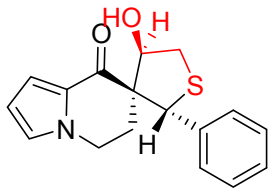
² *School of Chemistry and Food Engineering, Changsha University of Science and Technology, Changsha 410114, China; e-mail: jlzeng@csust.cn*

SUPPLEMENTARY INFORMATION

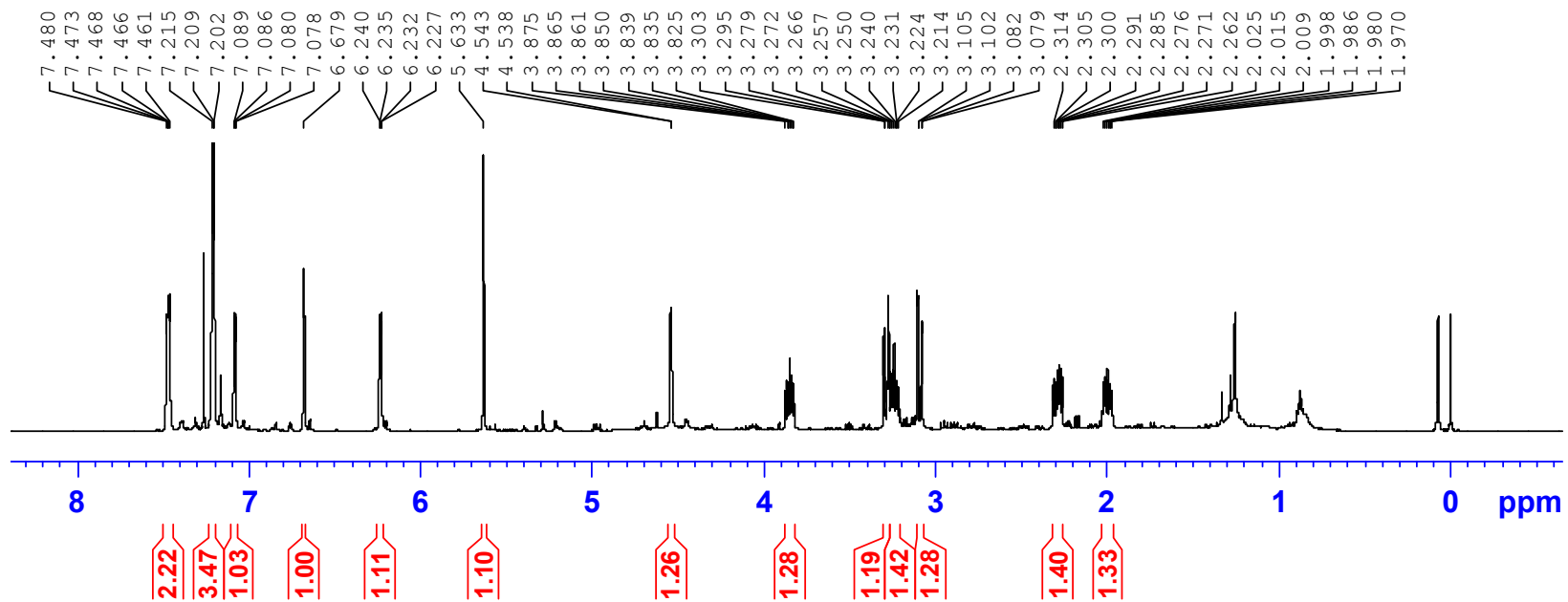


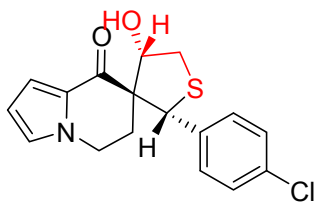
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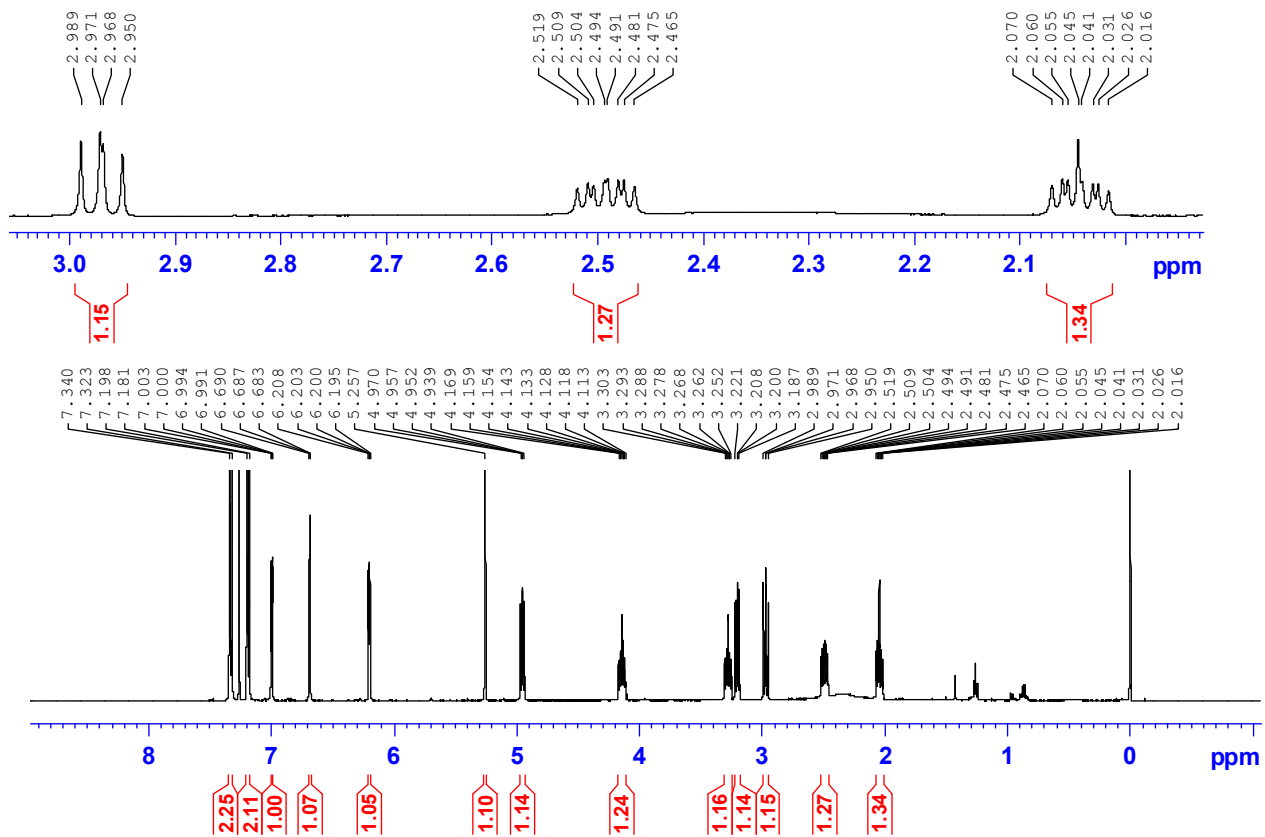


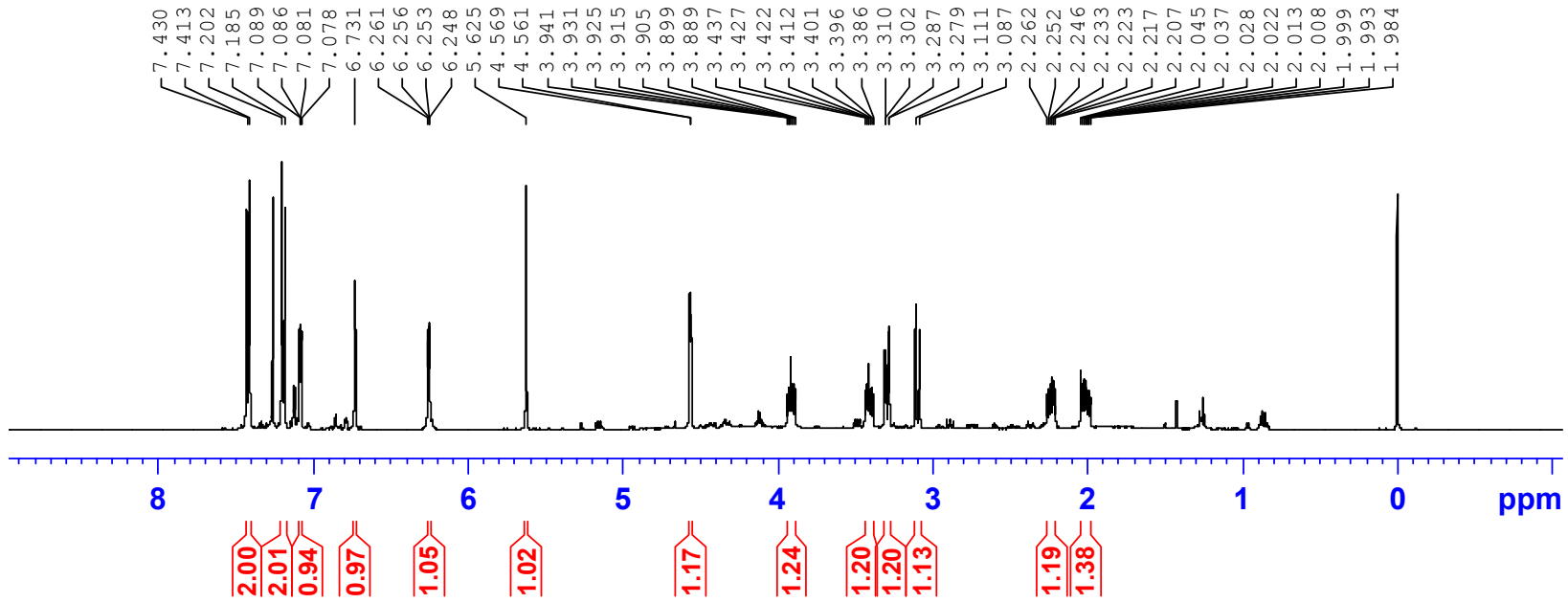
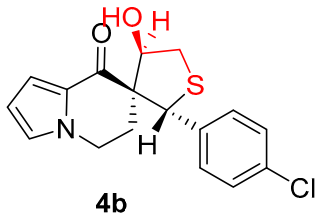
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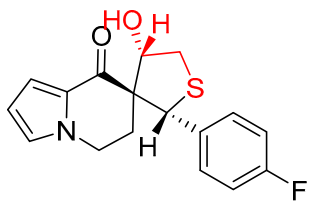




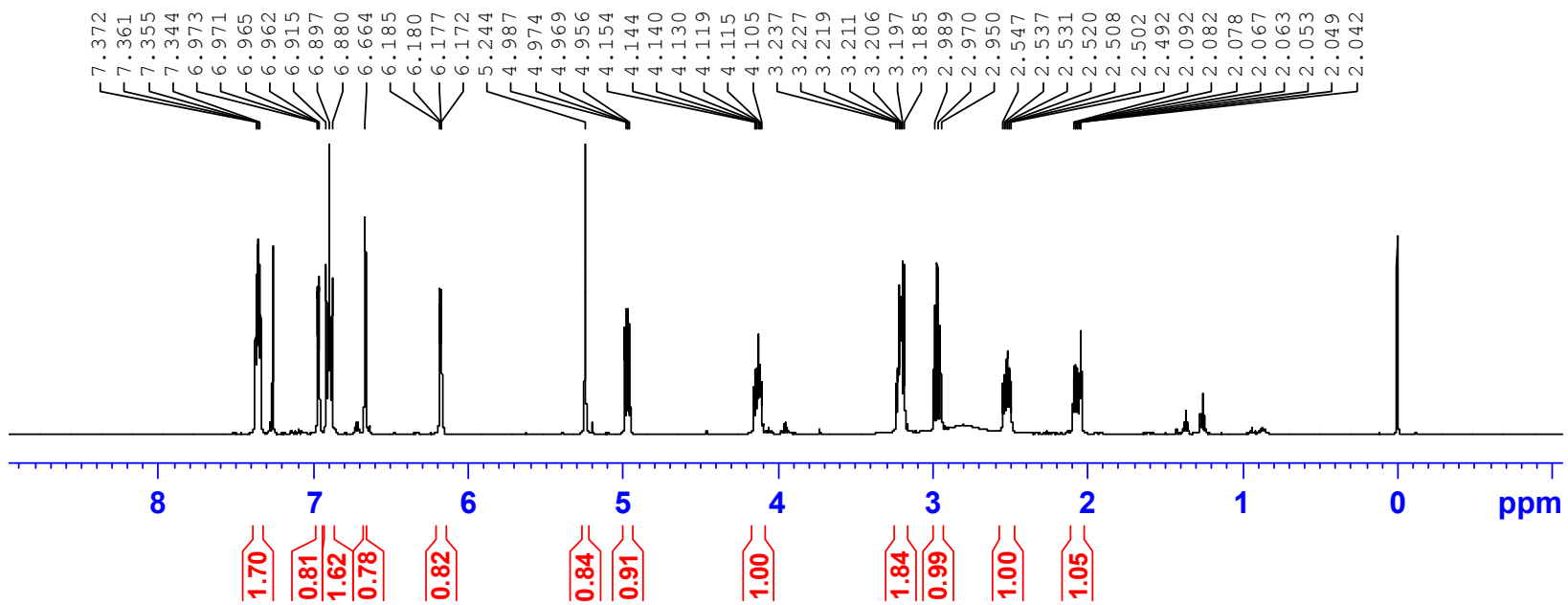
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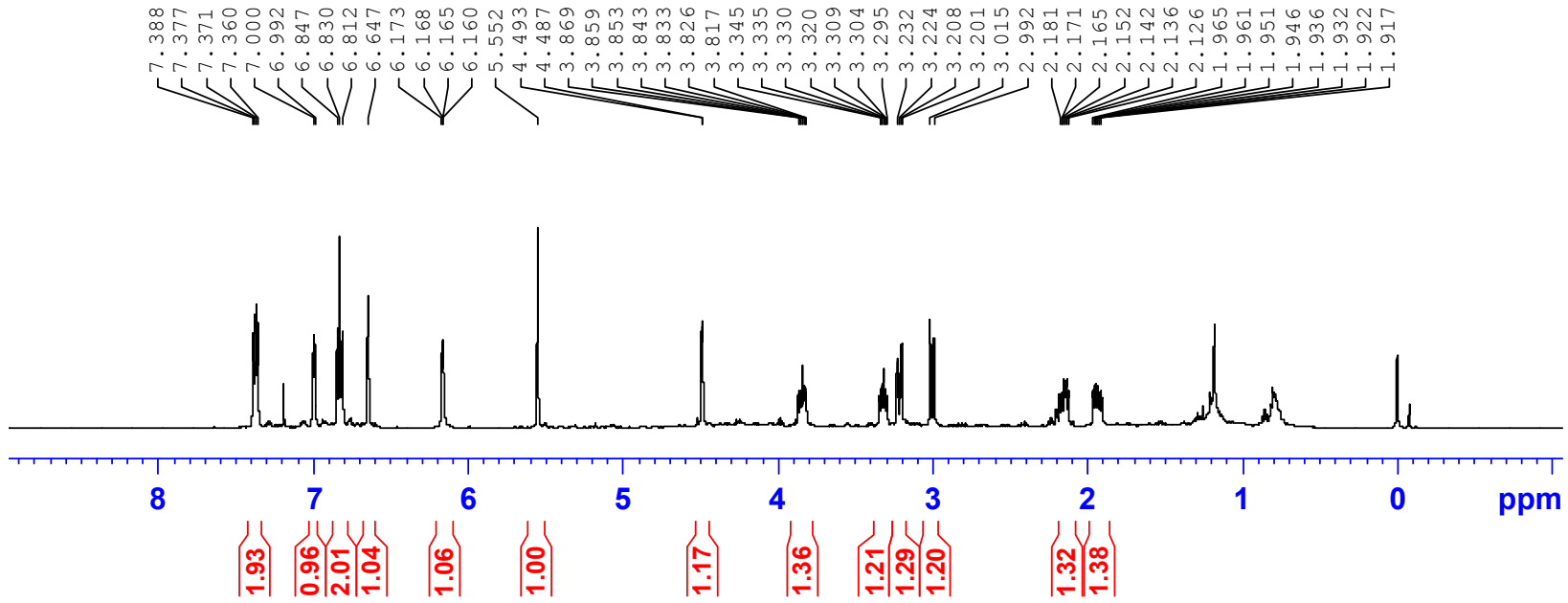
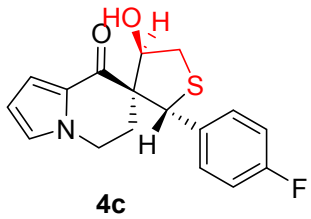


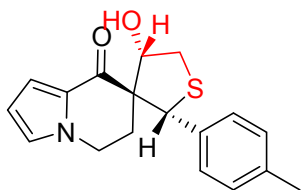




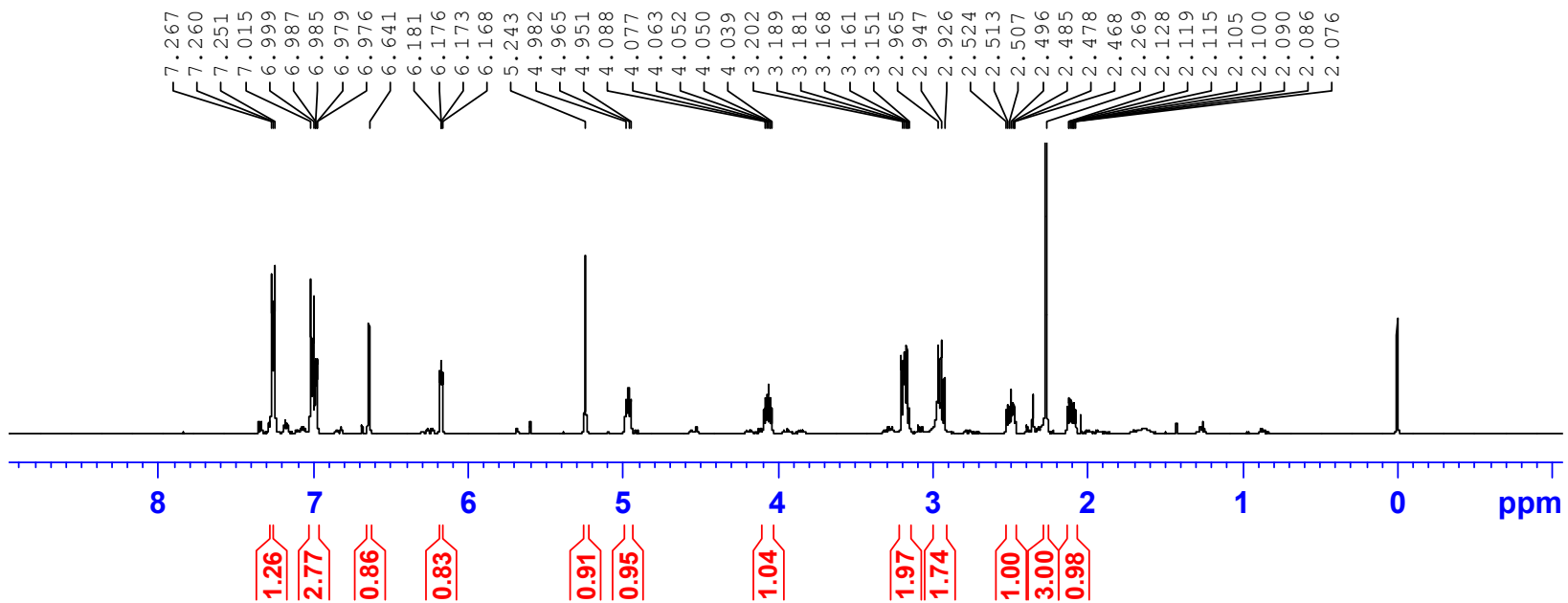
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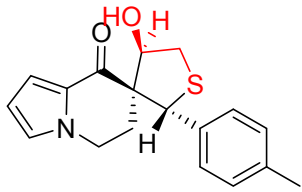




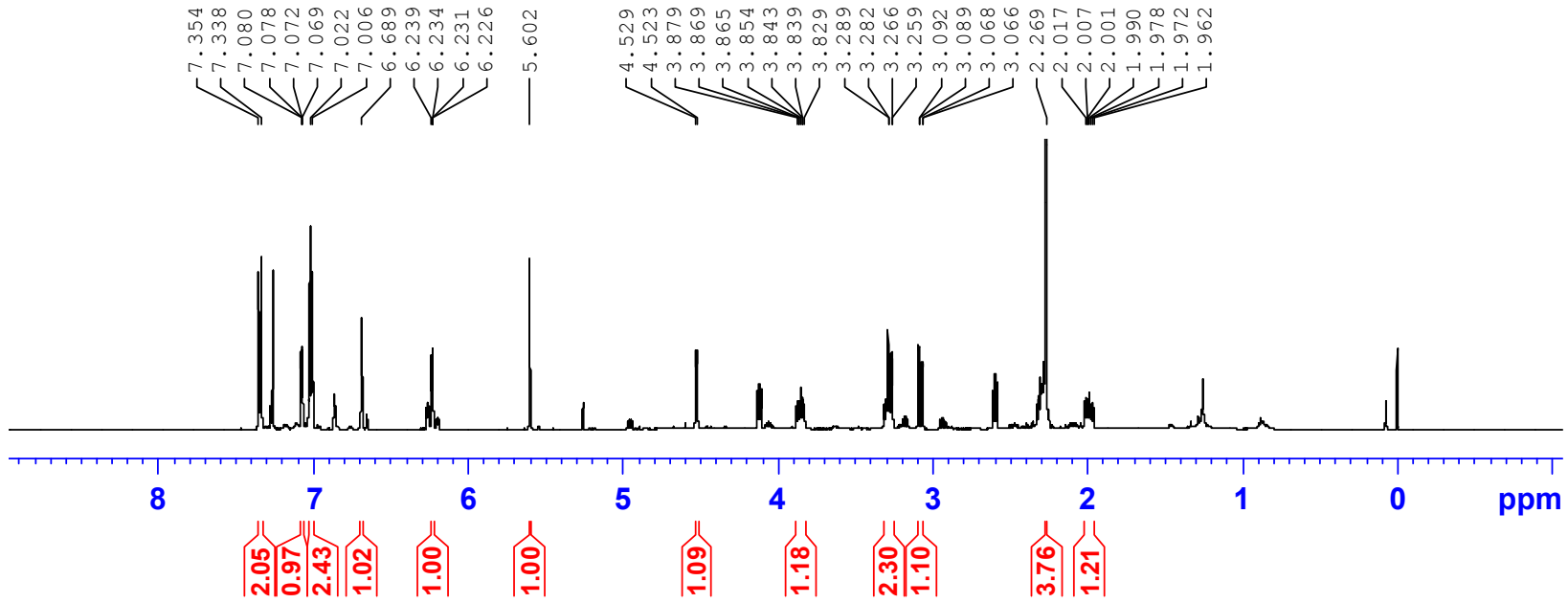


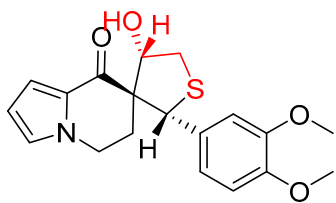
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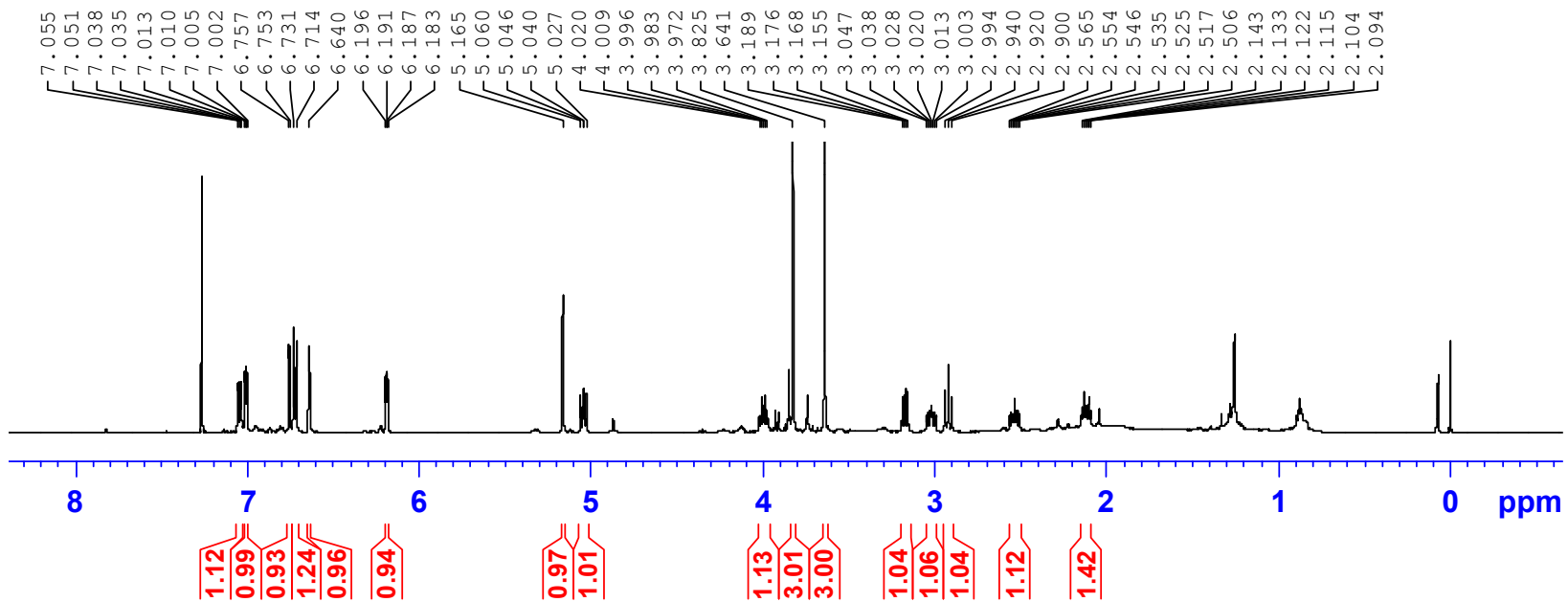


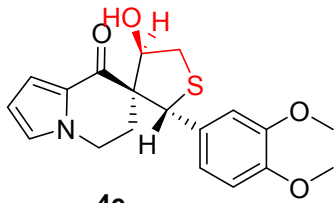
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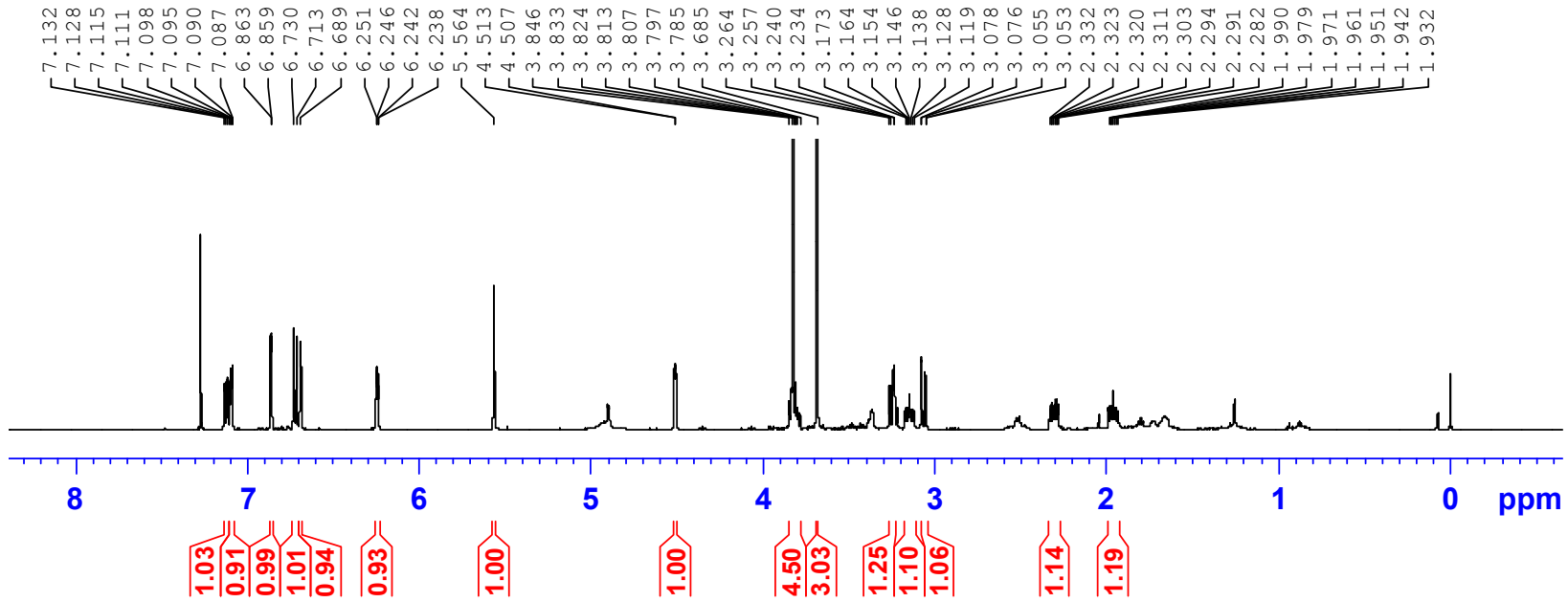


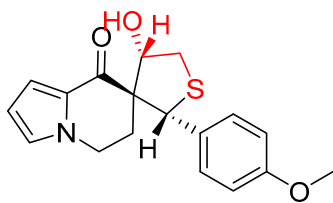
3e





4e





3f

