

Bicyclic isoxazoline derivatives: synthesis and evaluation of biological activity

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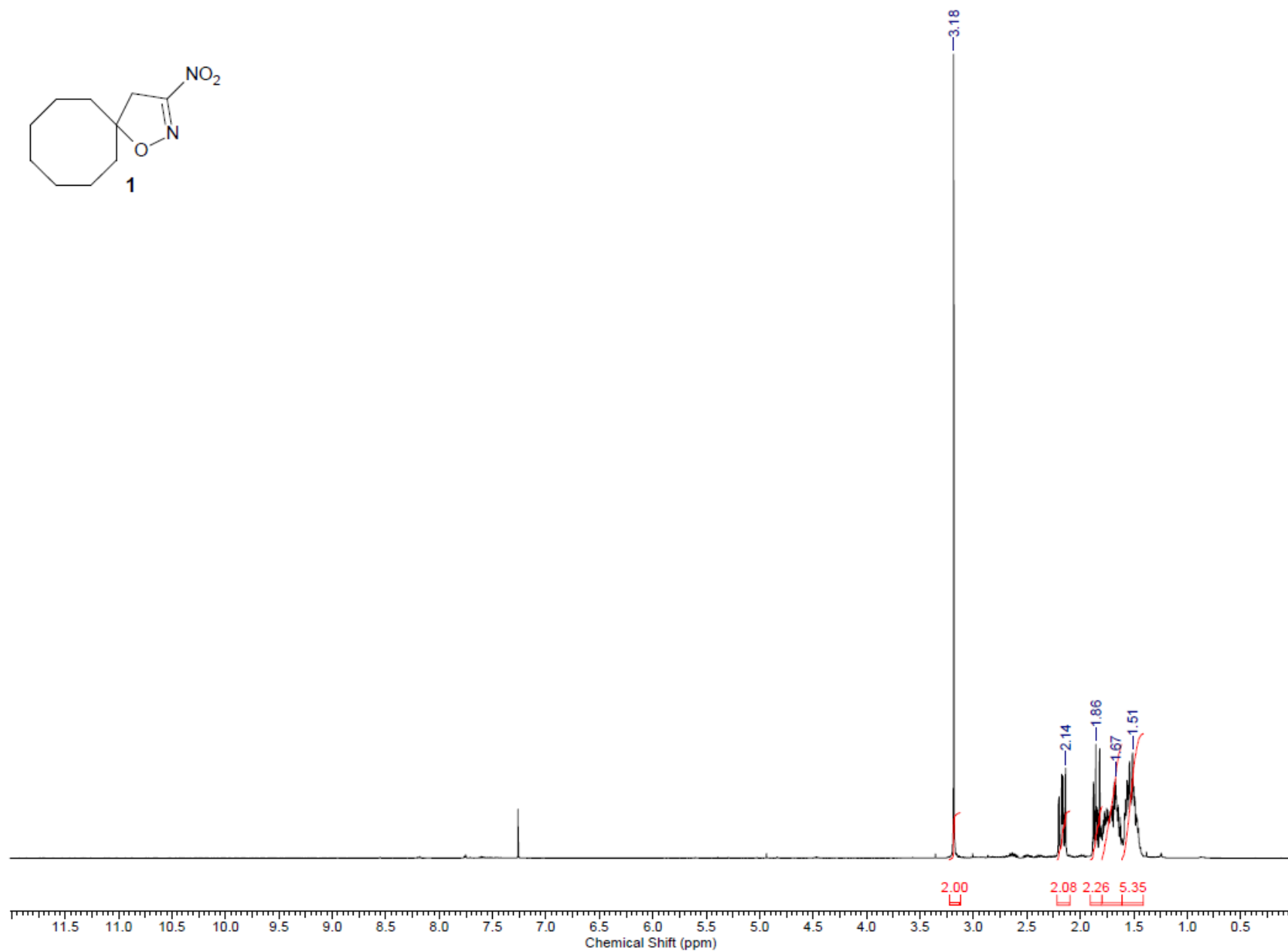
⁴ Saint Petersburg Pasteur Research Institute of Epidemiology and Microbiology, 14 Mira St., Saint Petersburg 197101, Russia; zarubaev@gmail.com

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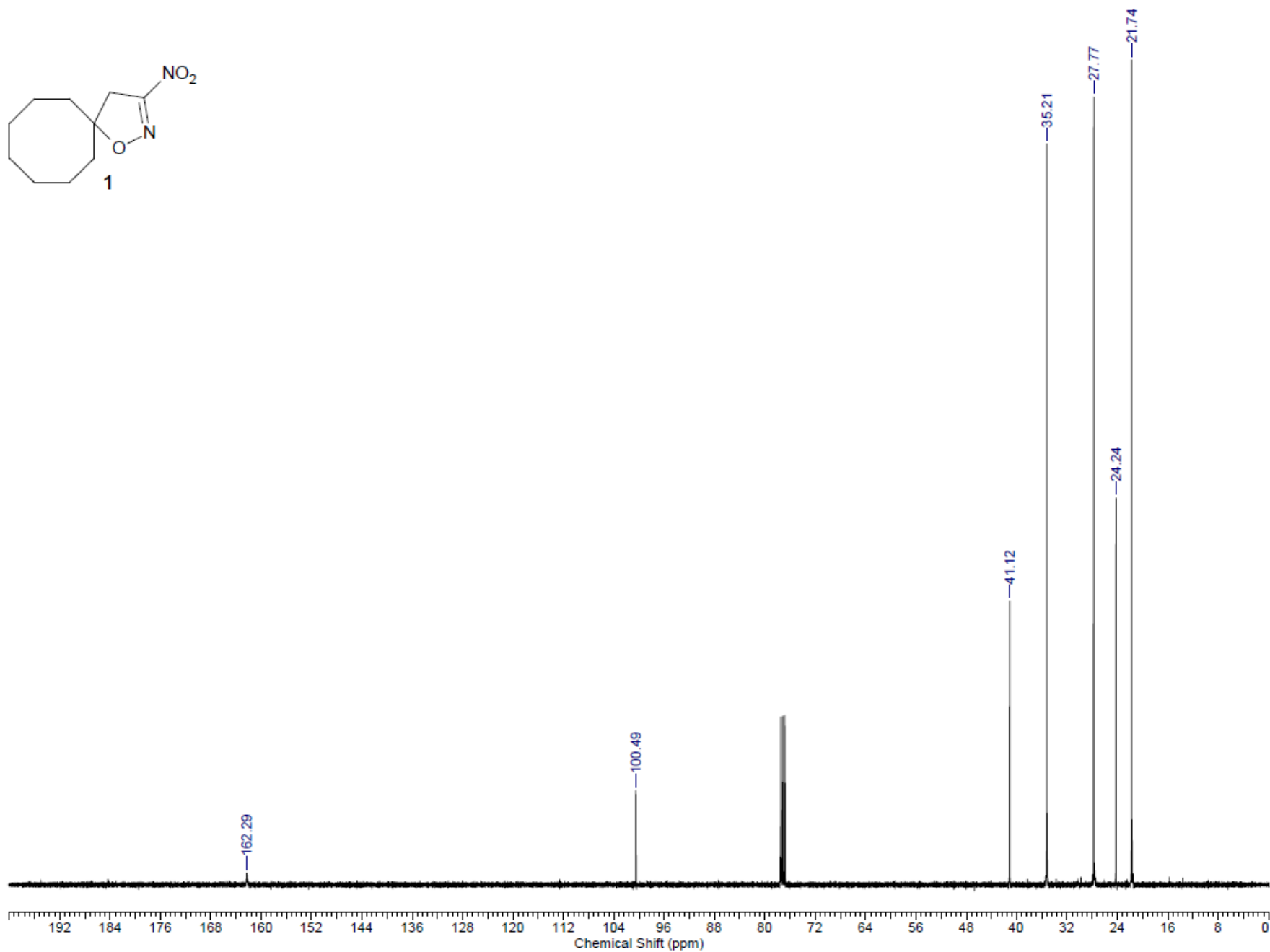
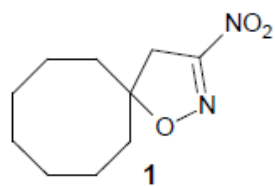
Supporting information

Copies of NMR spectra.....2

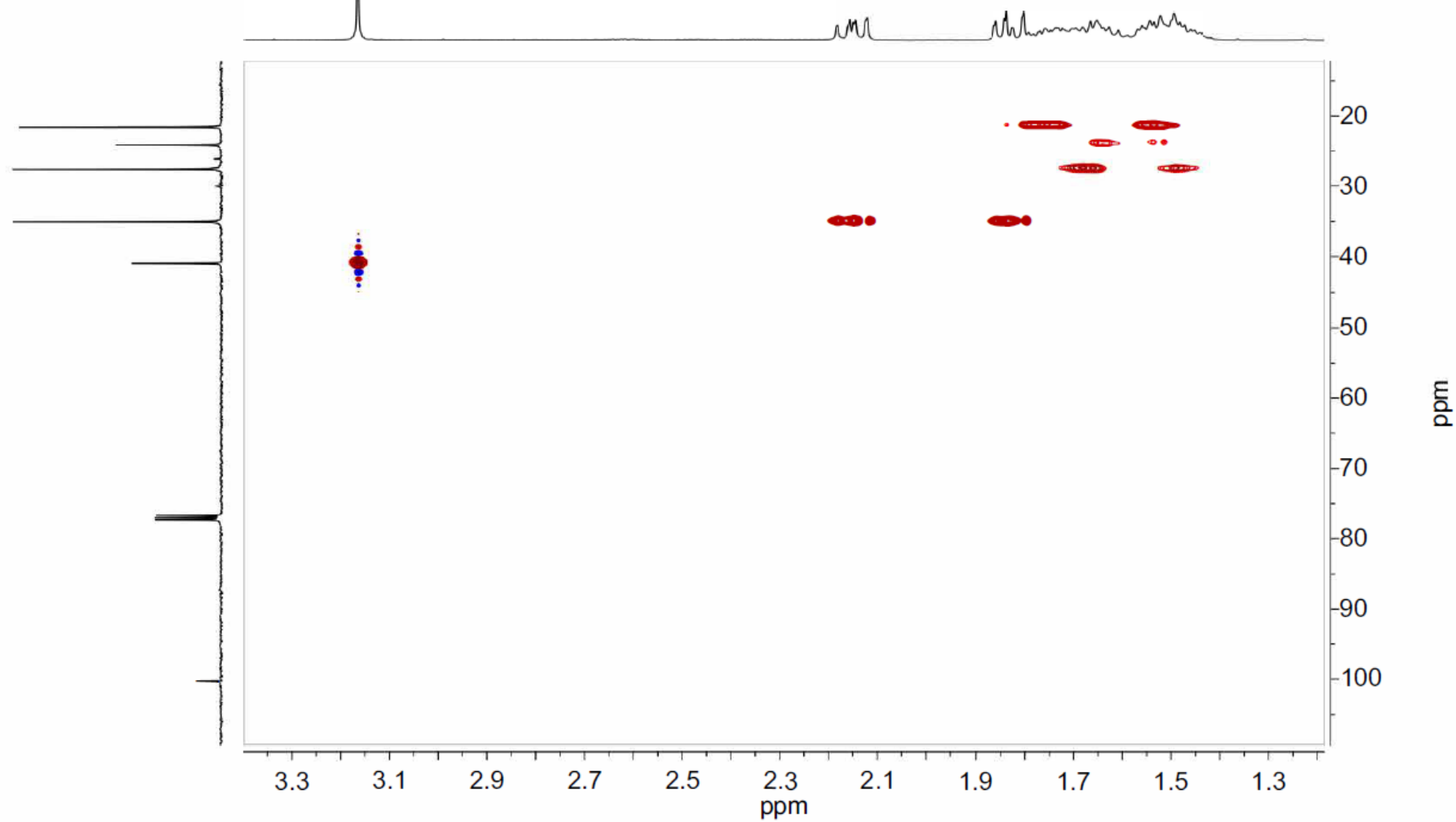
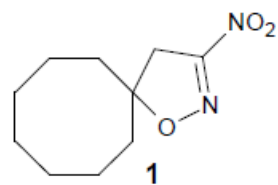
^1H NMR (CDCl_3) spectrum of compound **1**



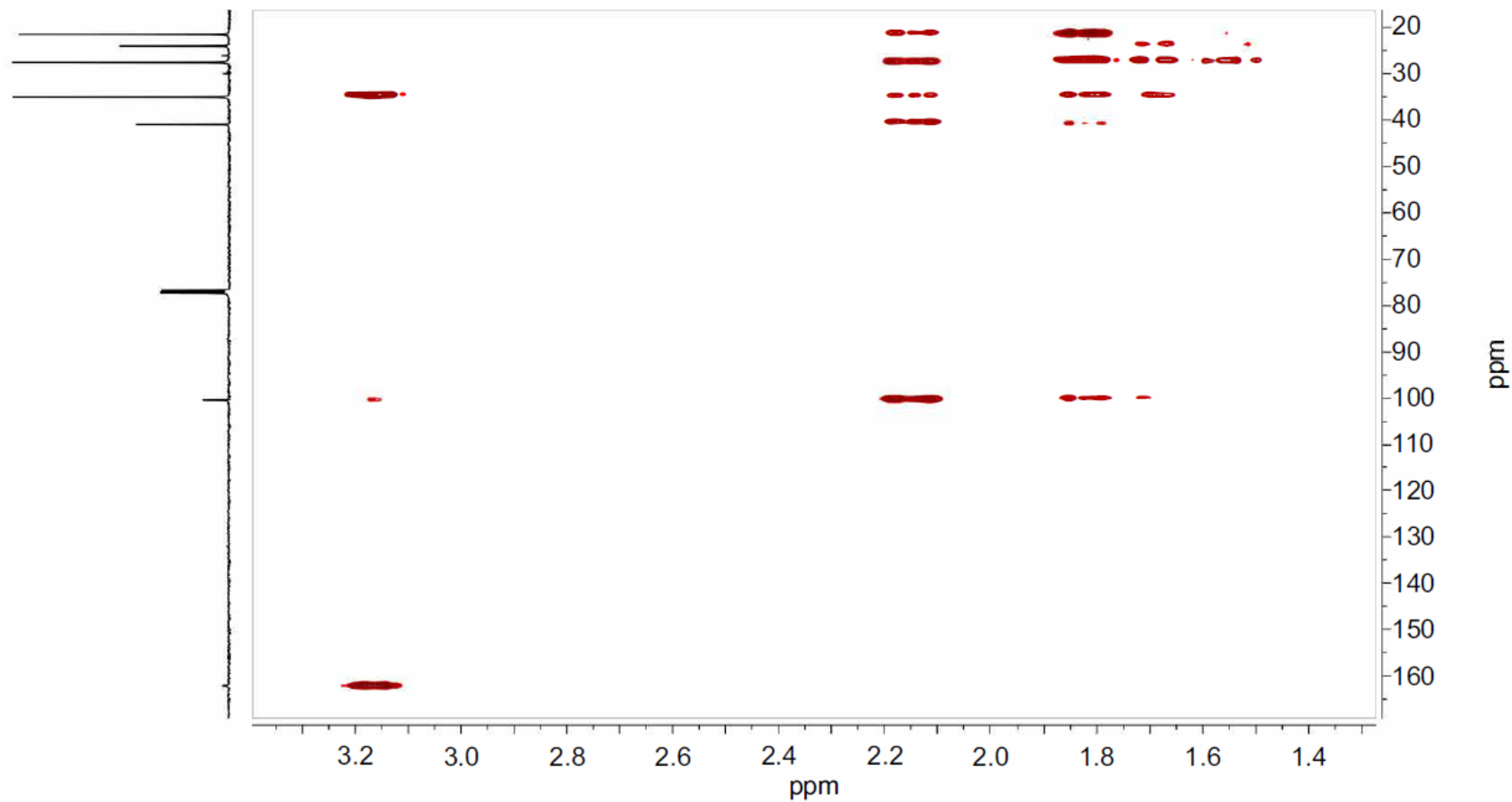
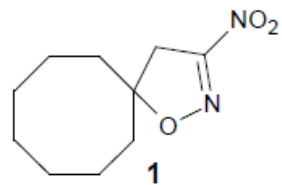
^{13}C NMR (CDCl_3) spectrum of compound **1**



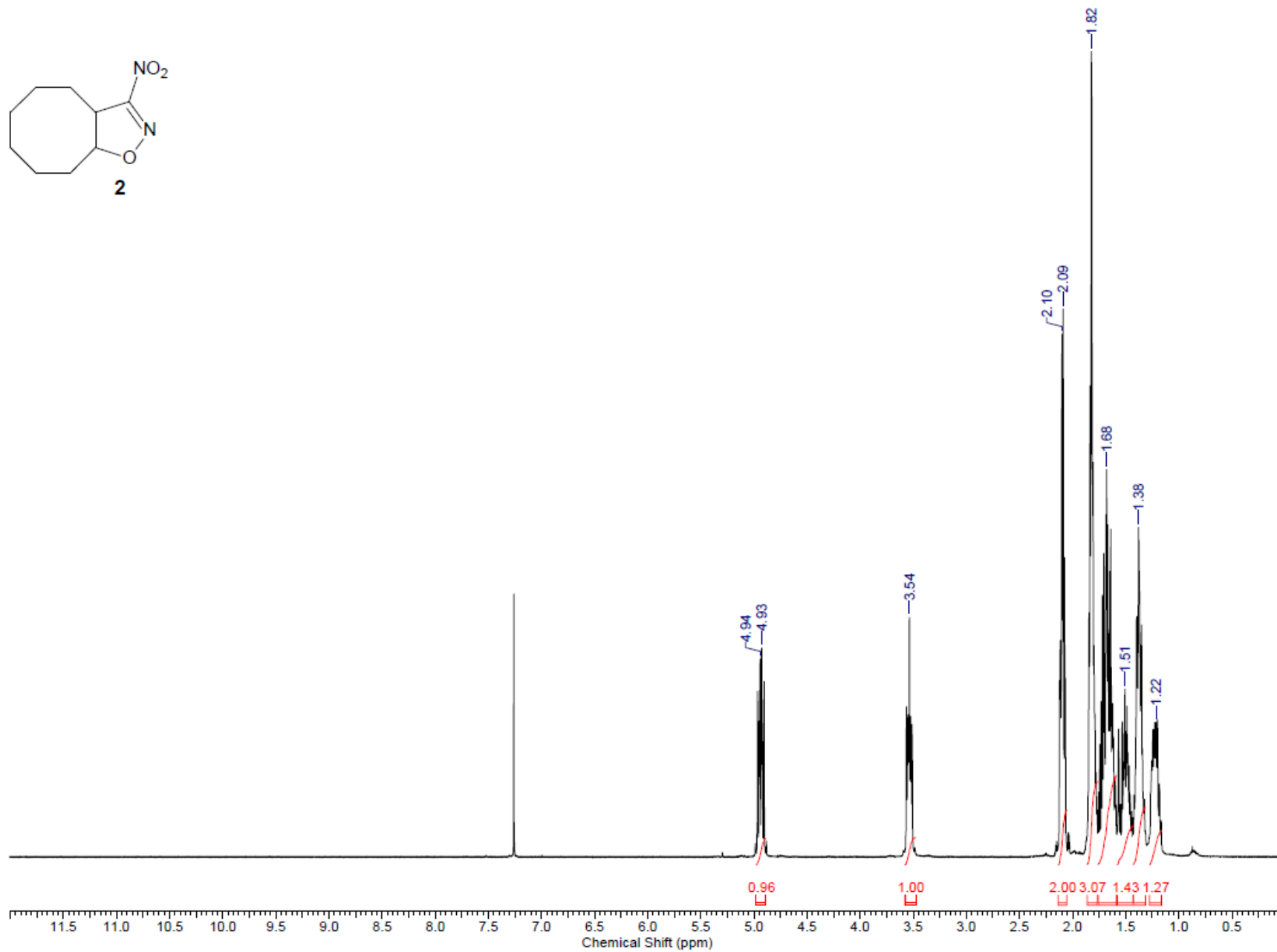
HSQC NMR (CDCl₃) spectrum of compound 1



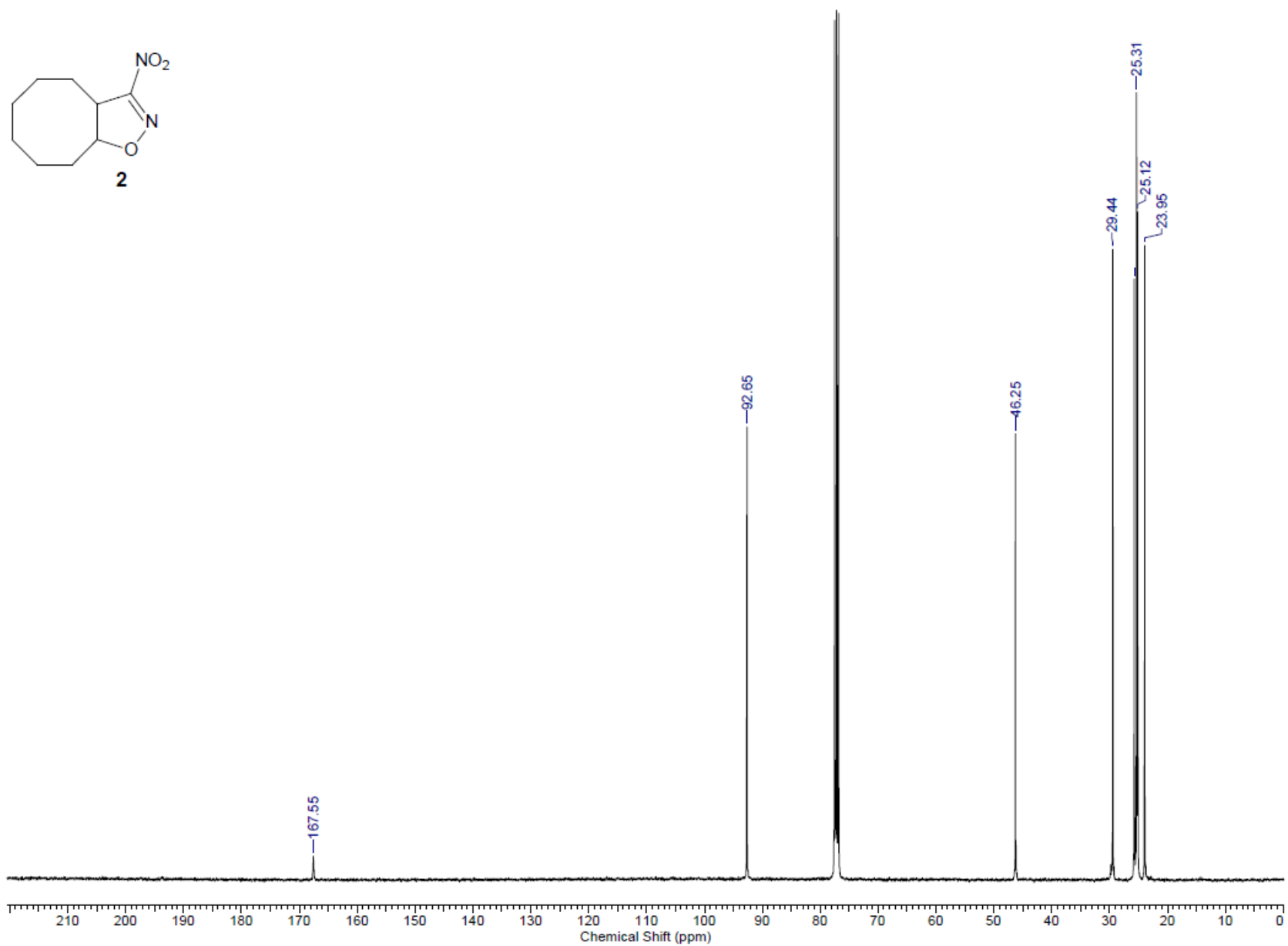
HMBC NMR (CDCl₃) spectrum of compound 1



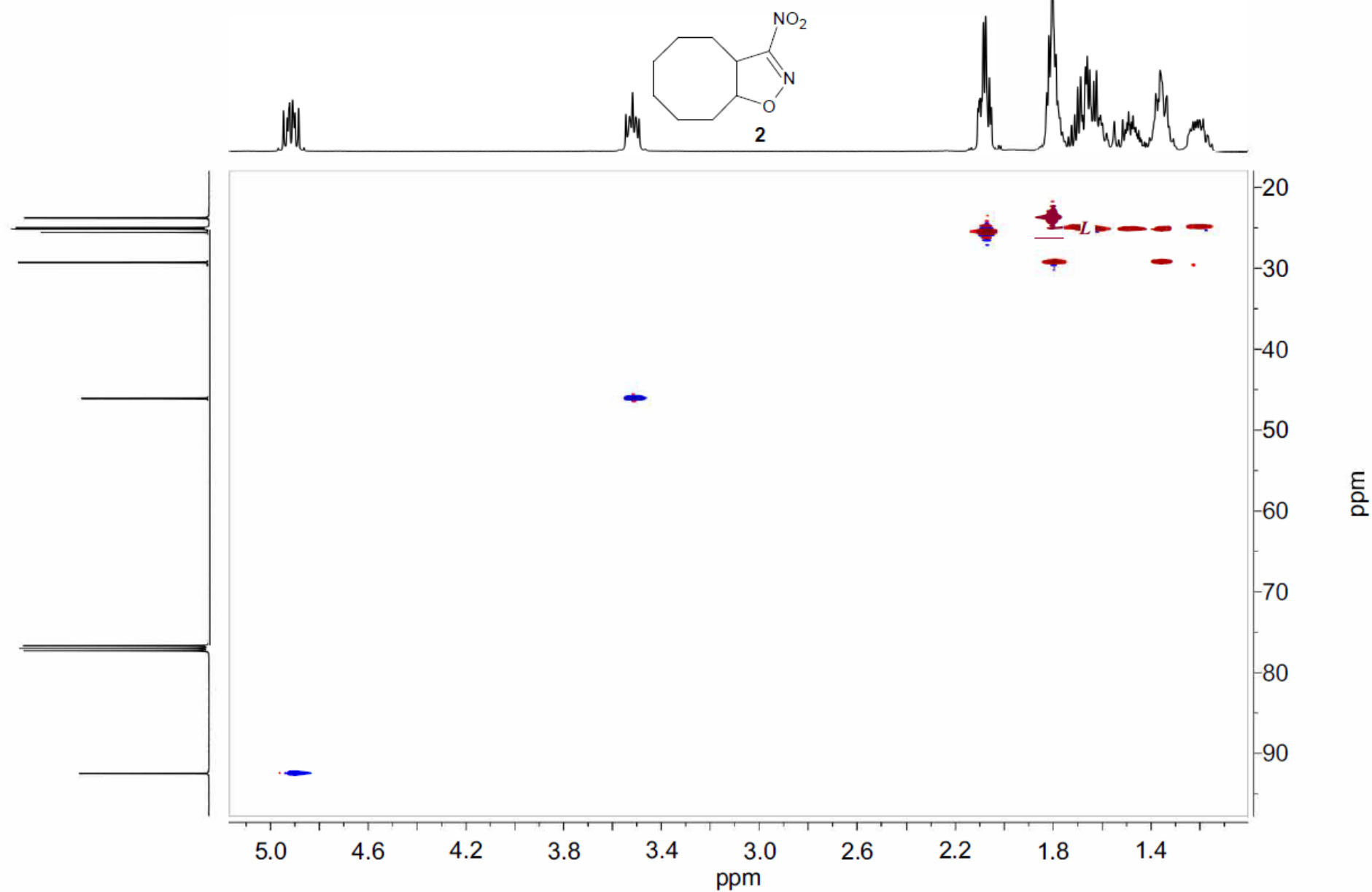
^1H NMR (CDCl_3) spectrum of compound **2**



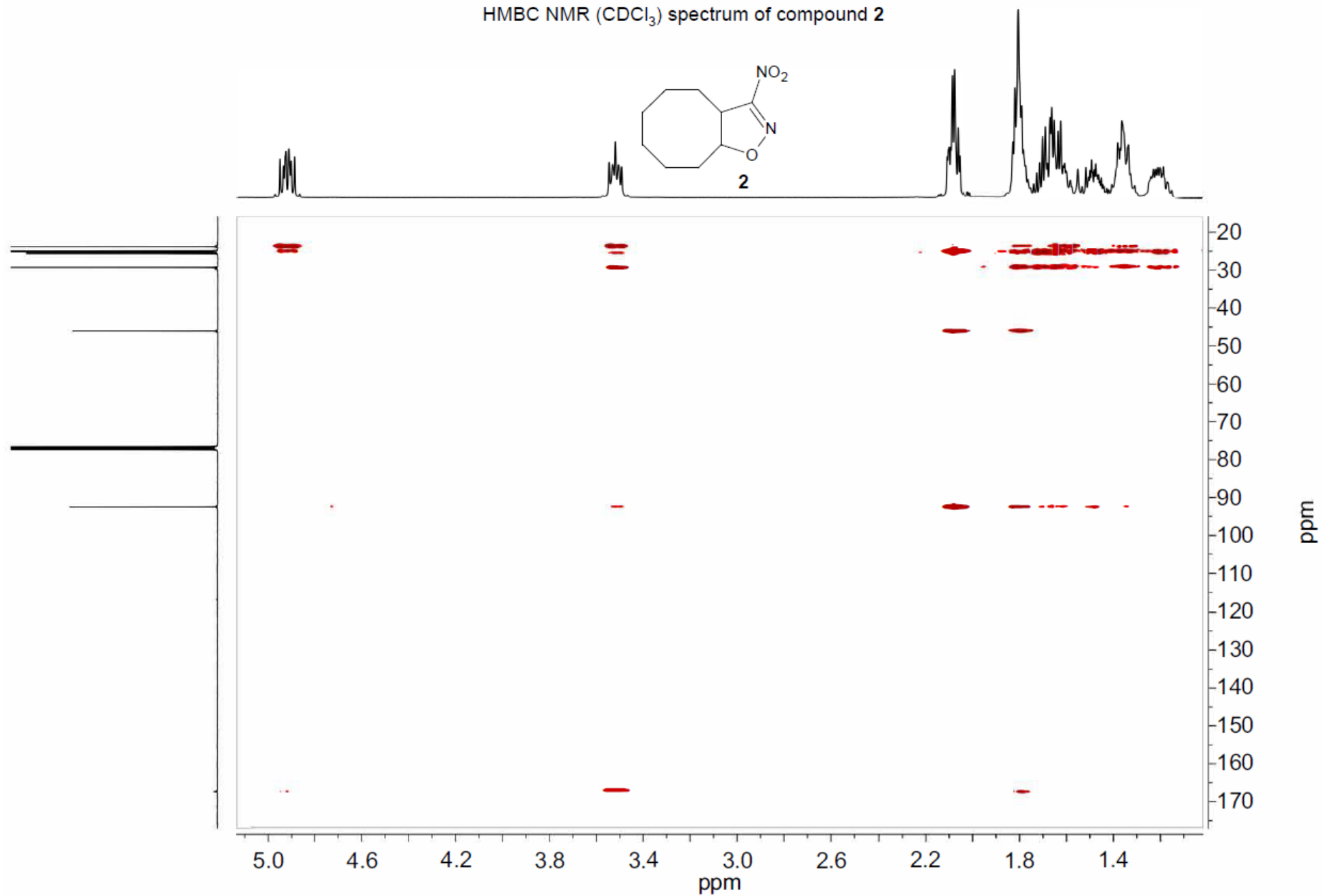
^{13}C NMR (CDCl_3) spectrum of compound **2**



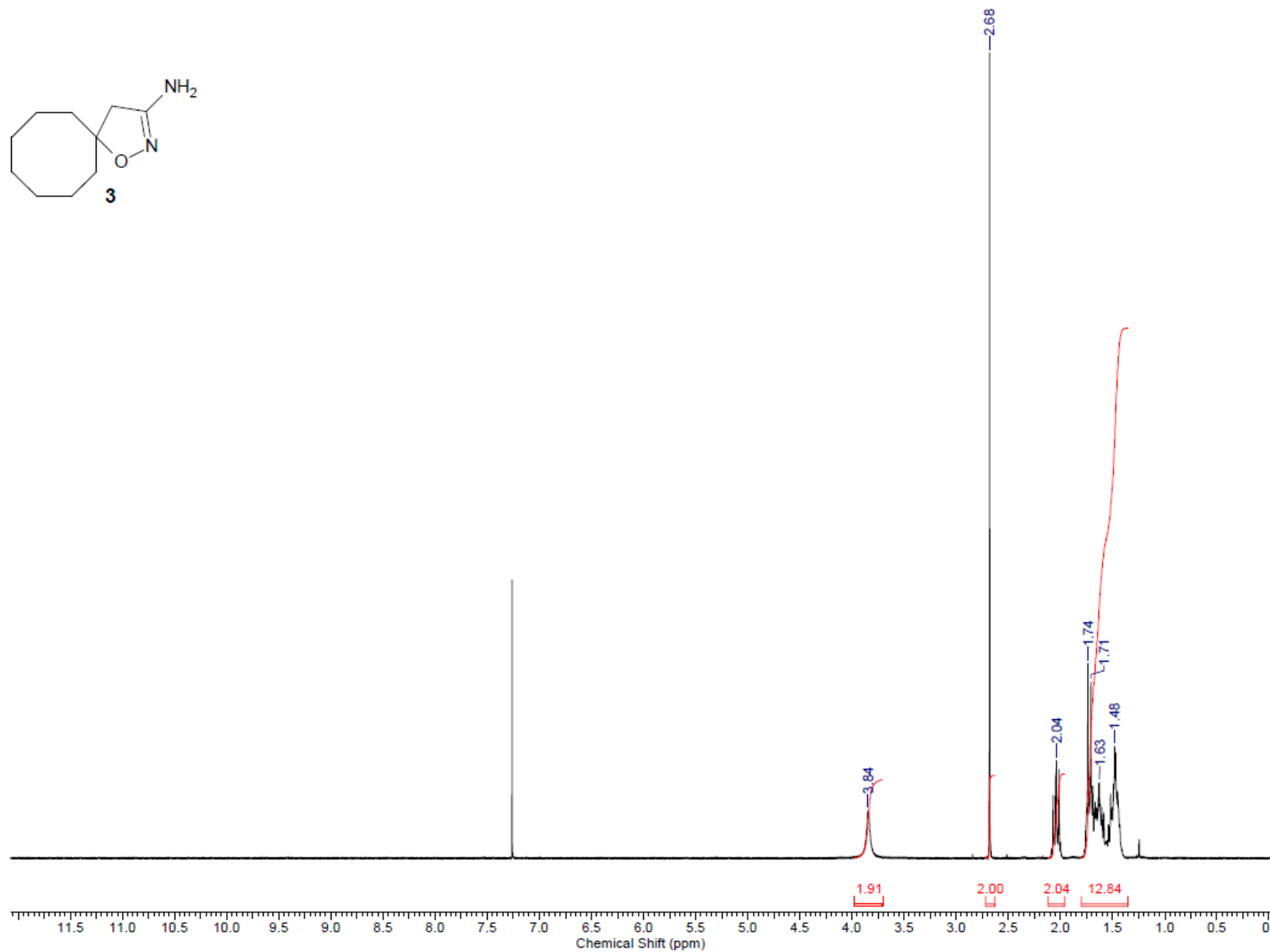
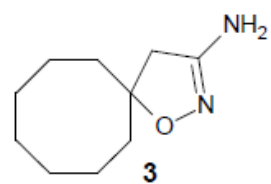
HSQC NMR (CDCl₃) spectrum of compound 2



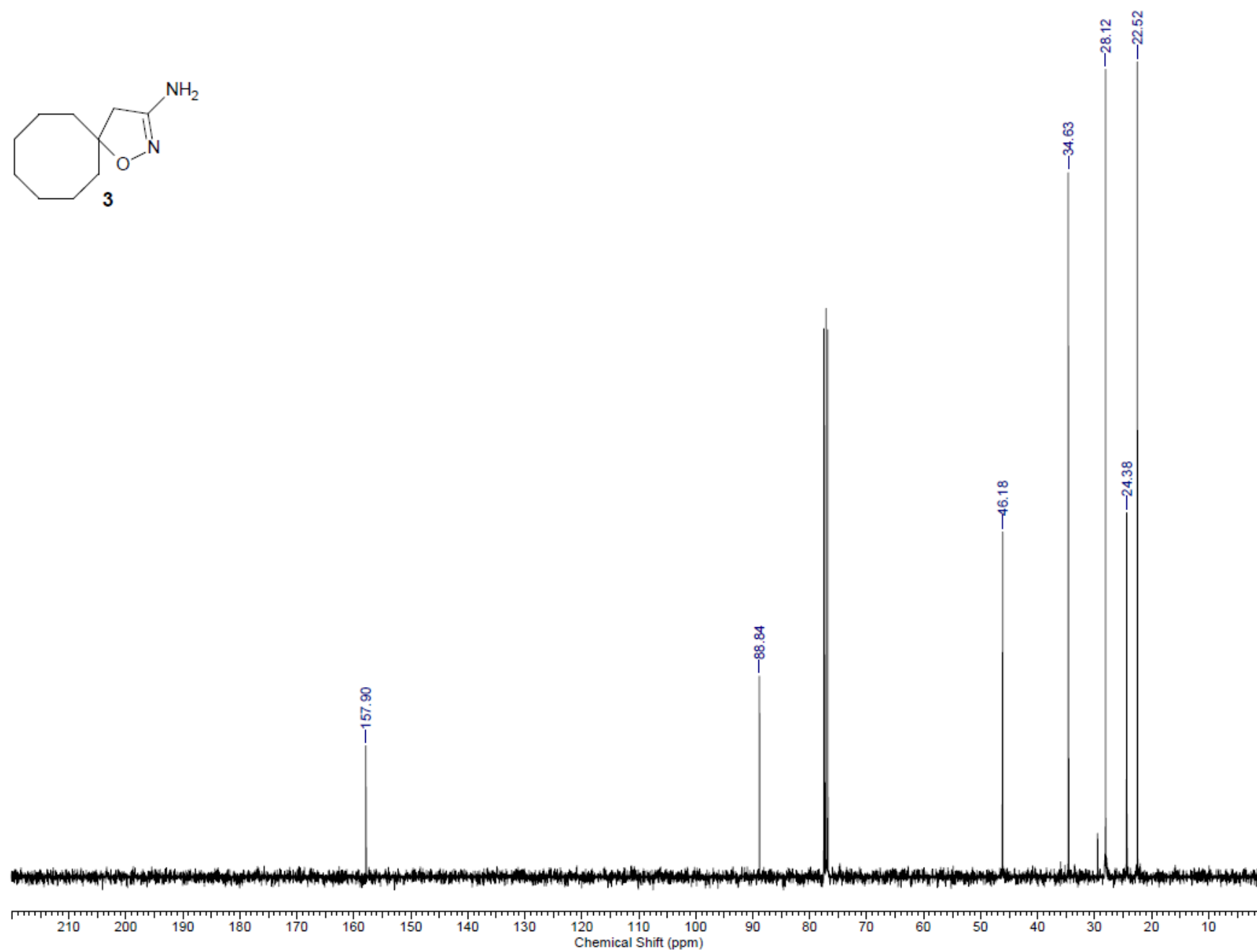
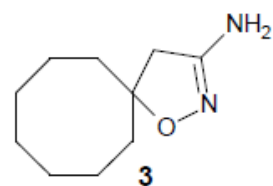
HMBC NMR (CDCl₃) spectrum of compound 2



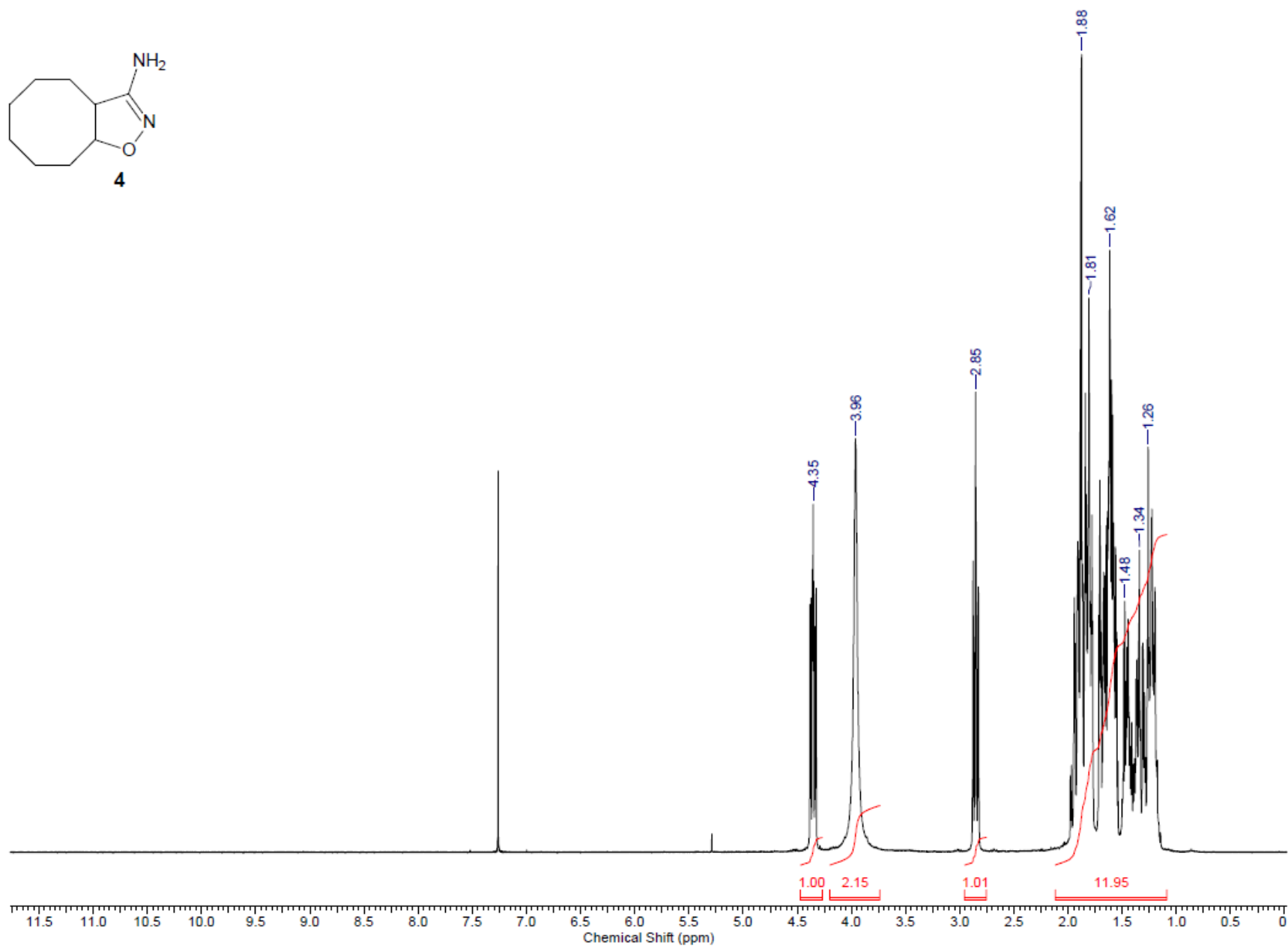
^1H NMR (CDCl_3) spectrum of compound **3**



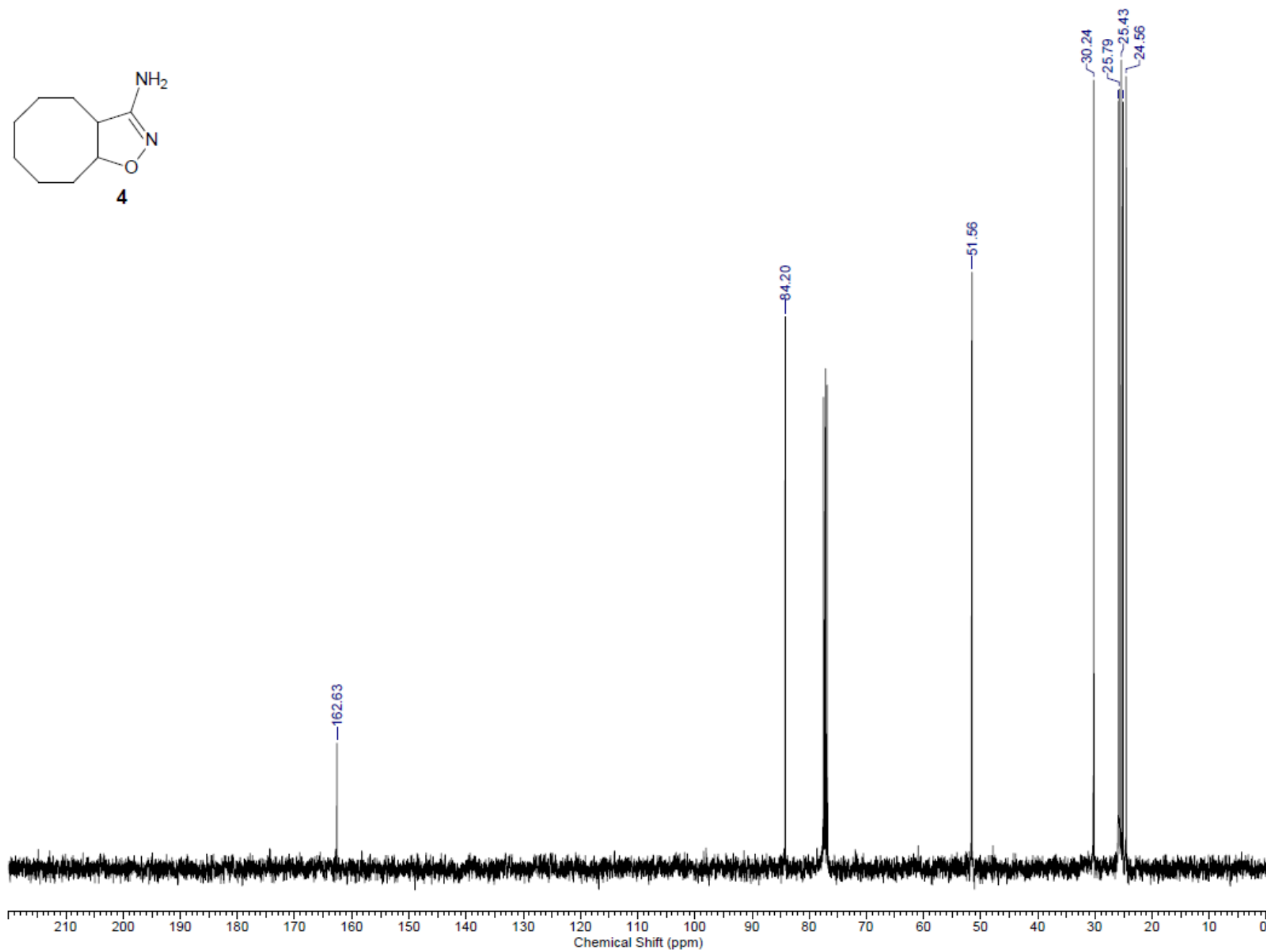
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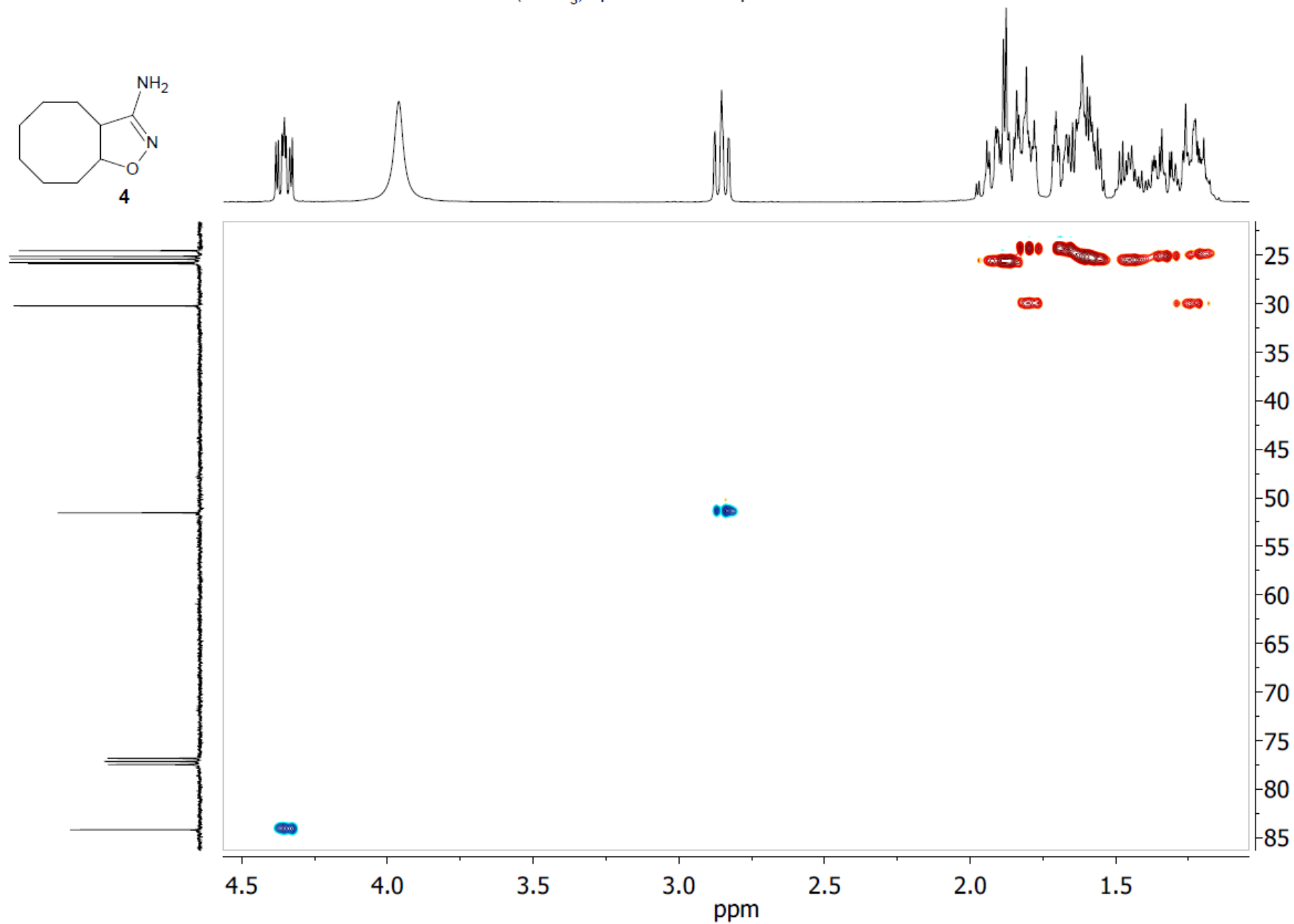
^1H NMR (CDCl_3) spectrum of compound **4**



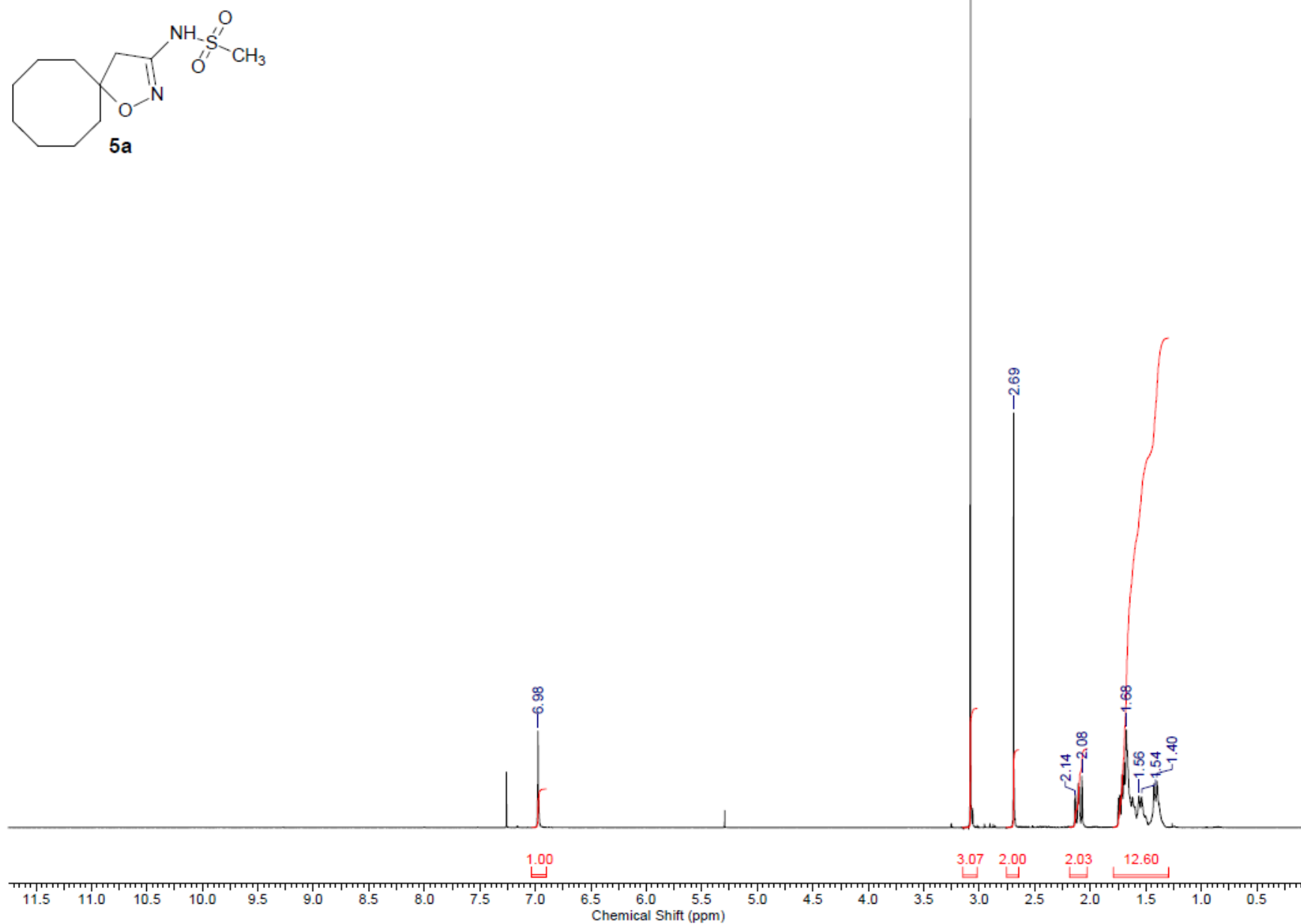
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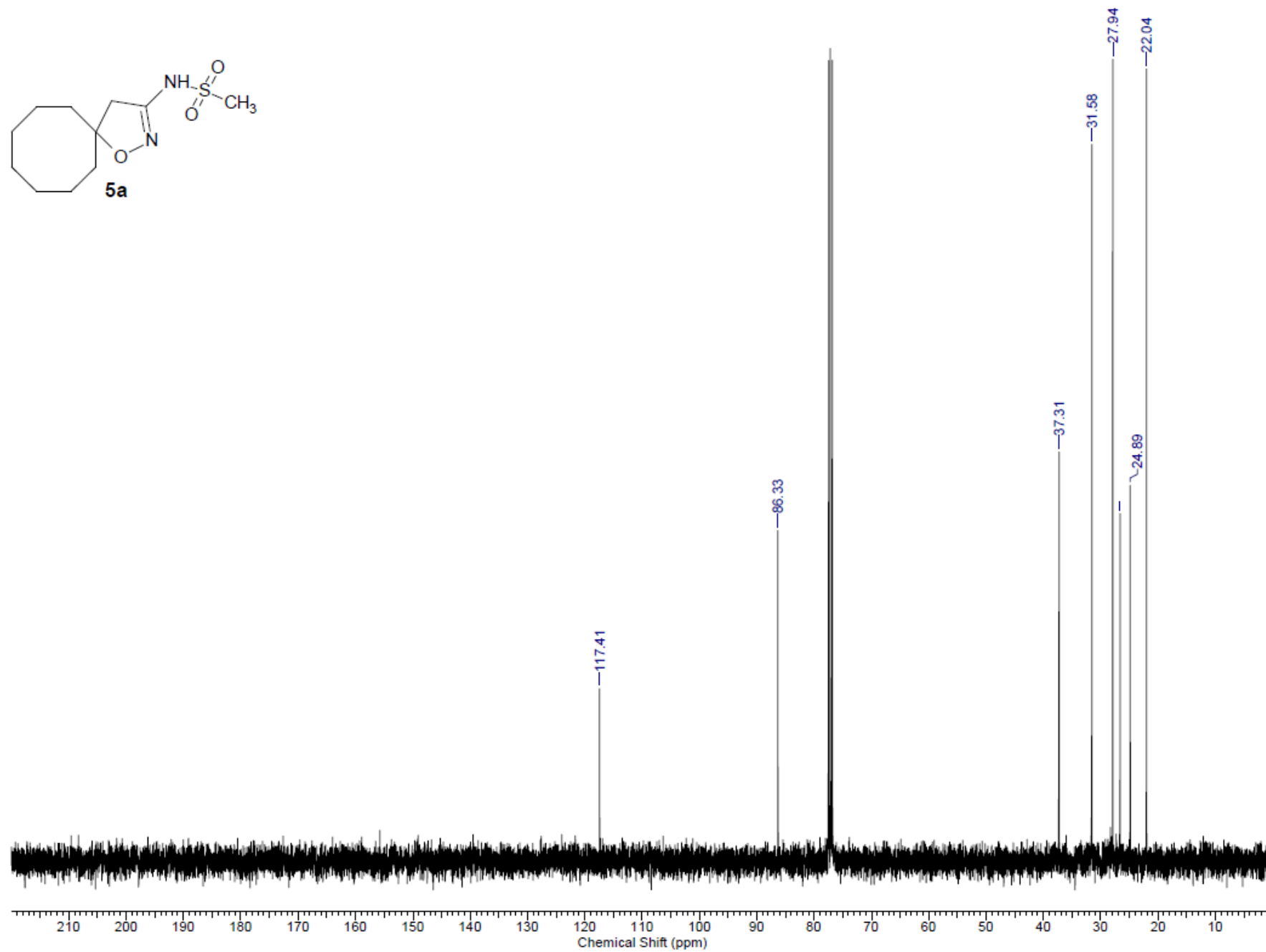
HSQC (CDCl₃) spectrum of compound 4



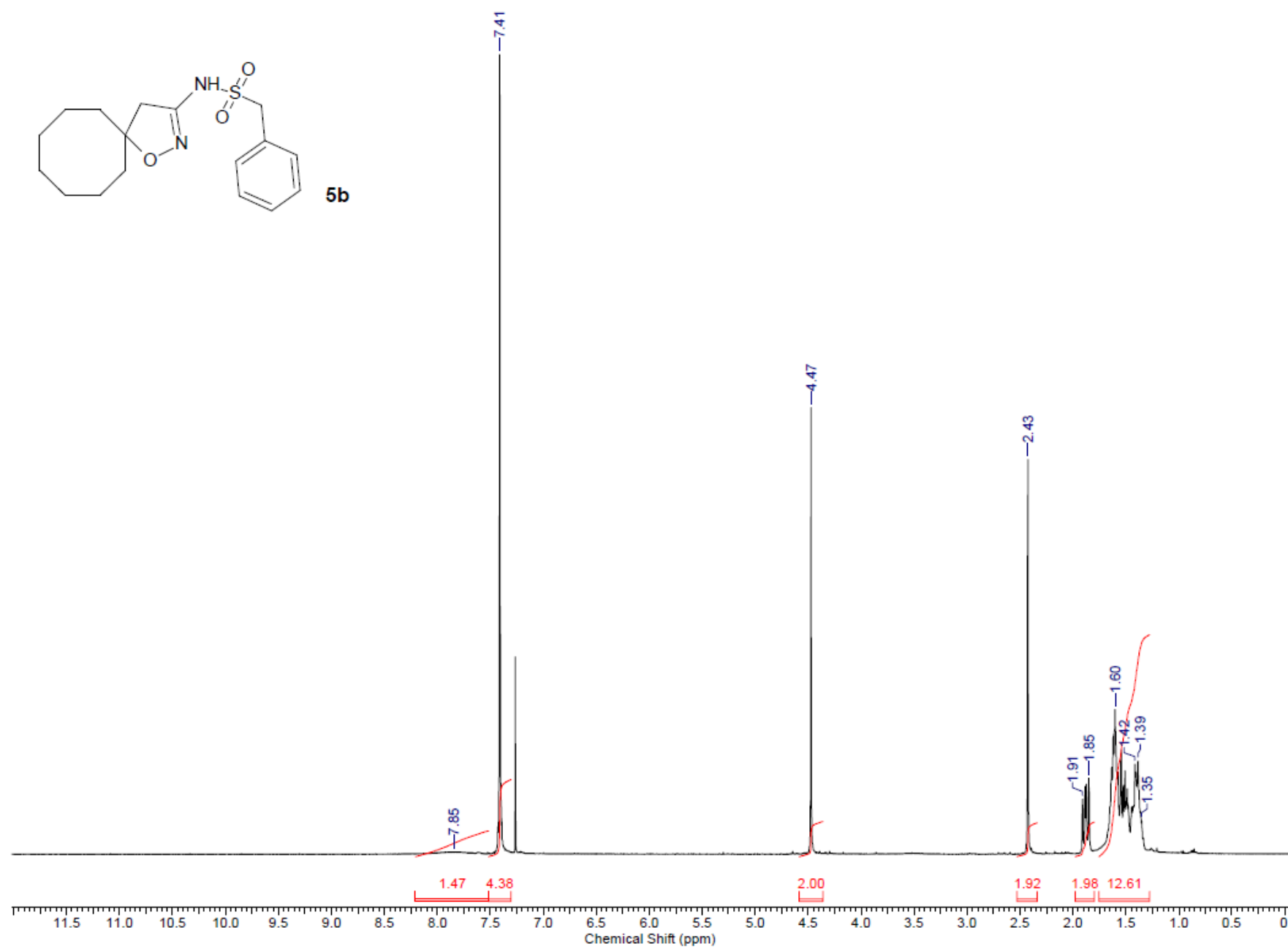
¹H NMR (CDCl₃) spectrum of compound **5a**



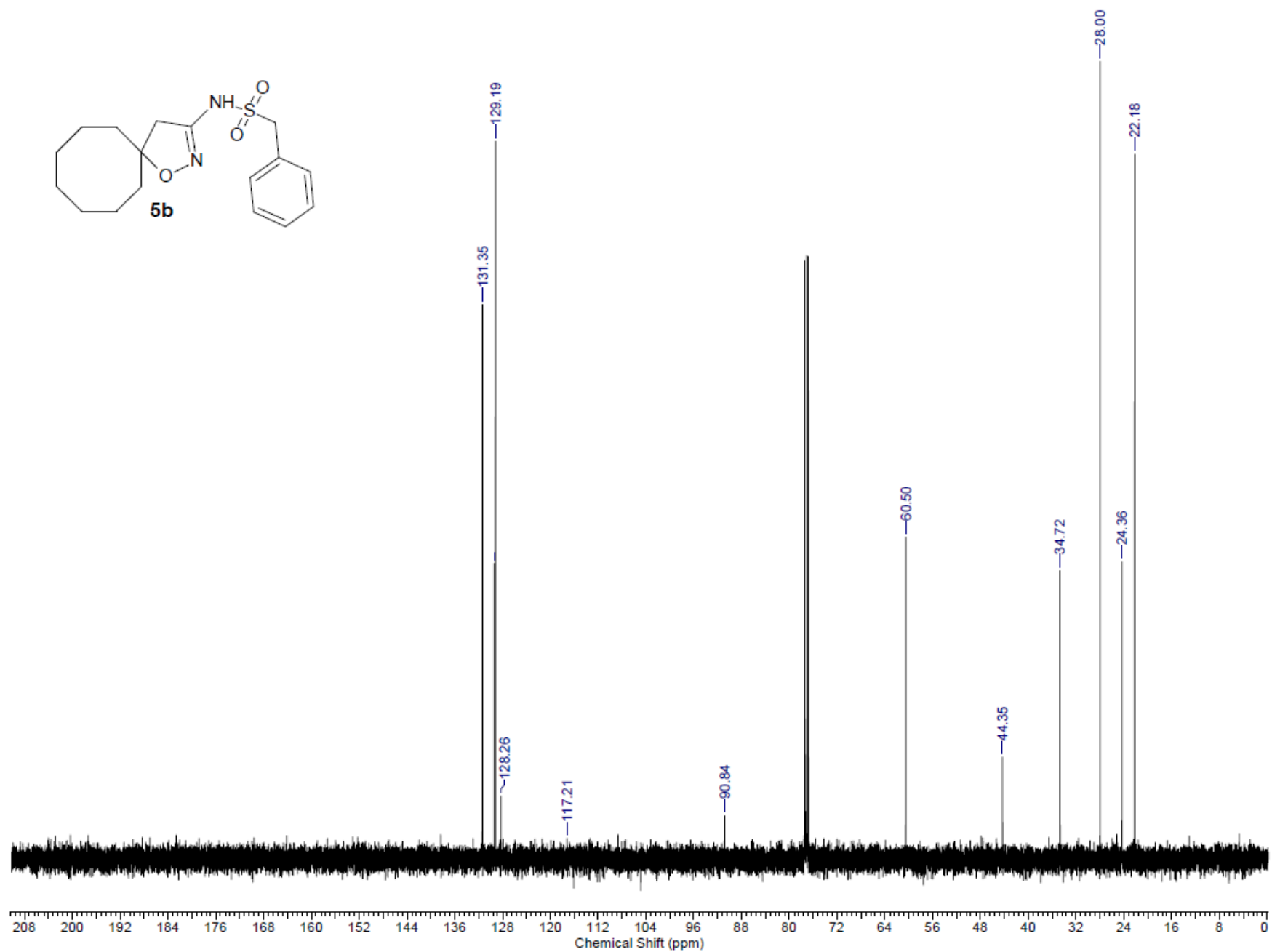
^{13}C NMR (CDCl_3) spectrum of compound **5a**



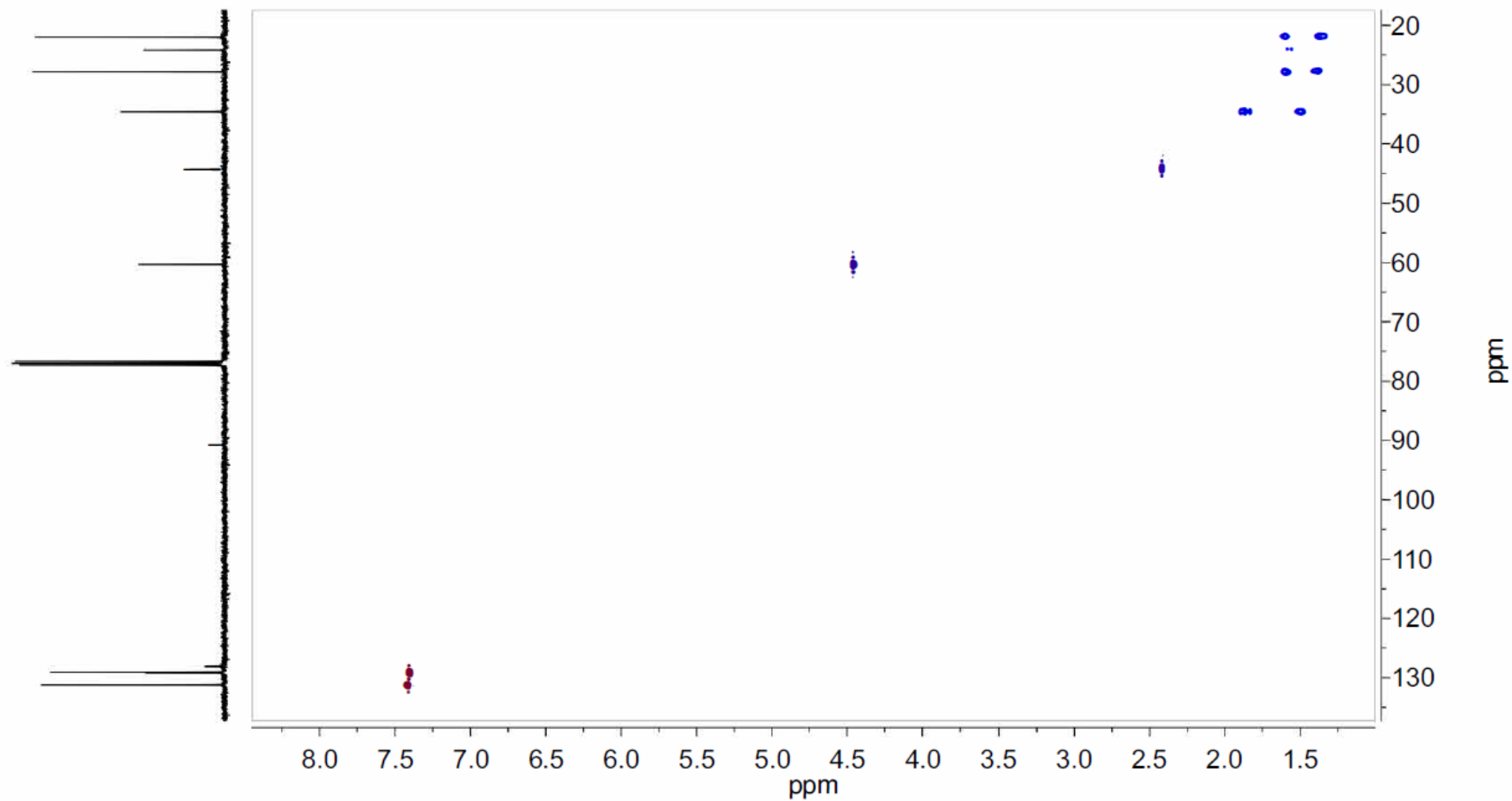
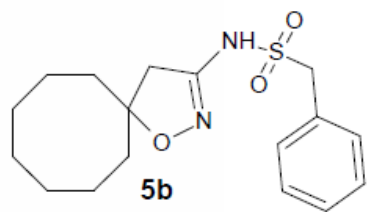
^1H NMR (CDCl_3) spectrum of compound **5b**

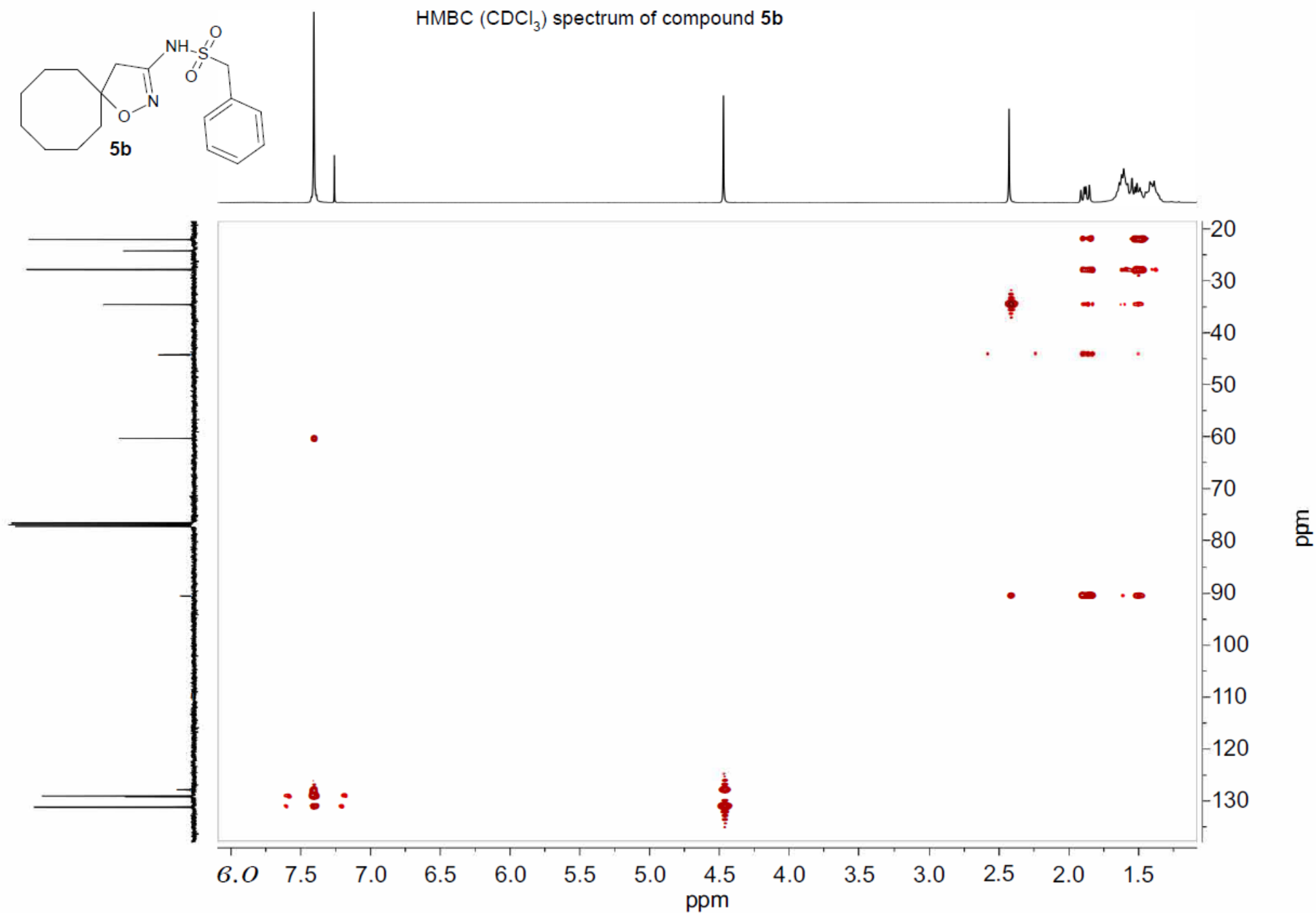


^{13}C NMR (CDCl_3) spectrum of compound **5b**

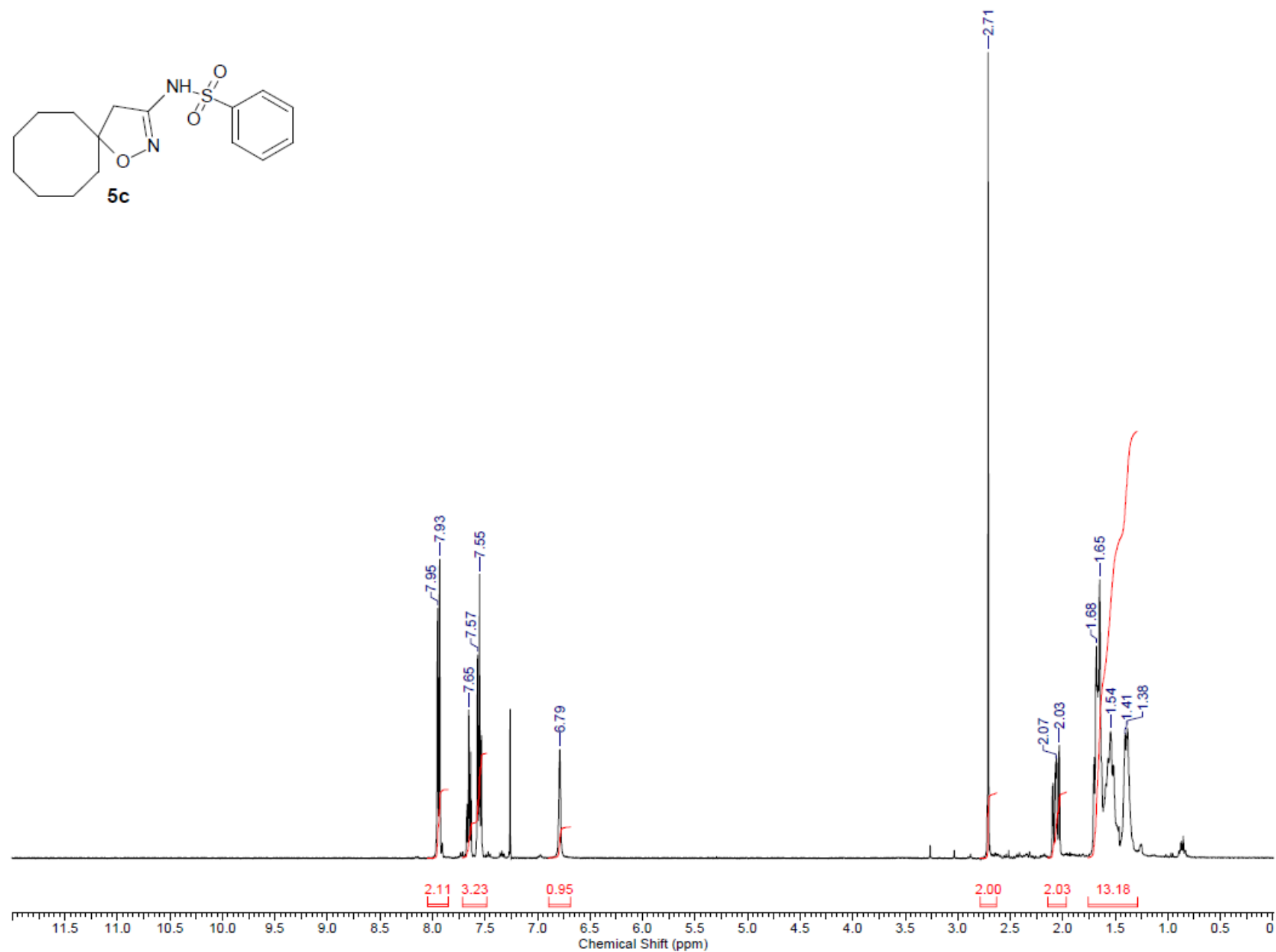
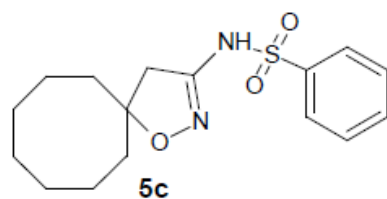


HSQC (CDCl₃) spectrum of compound 5b

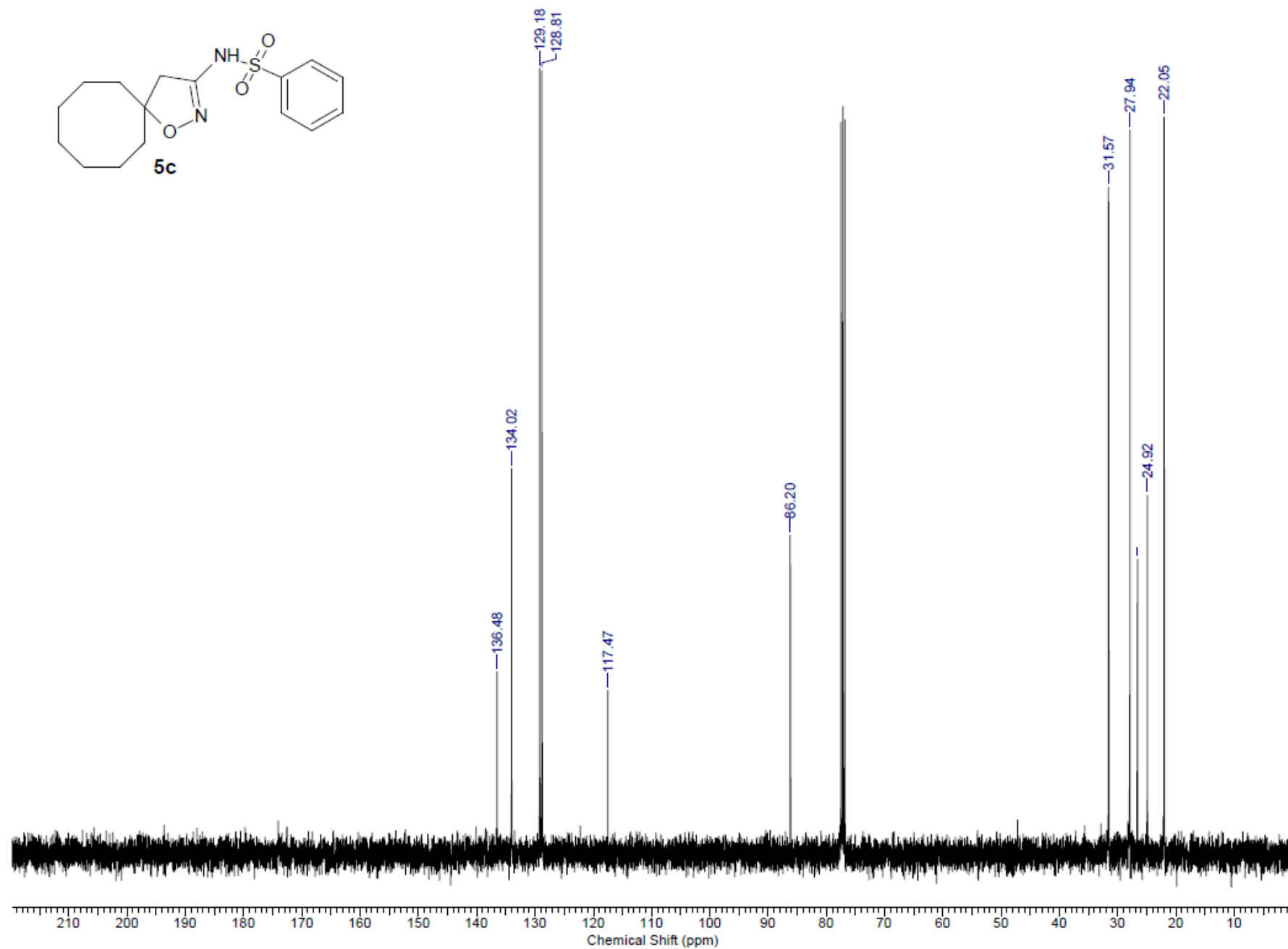




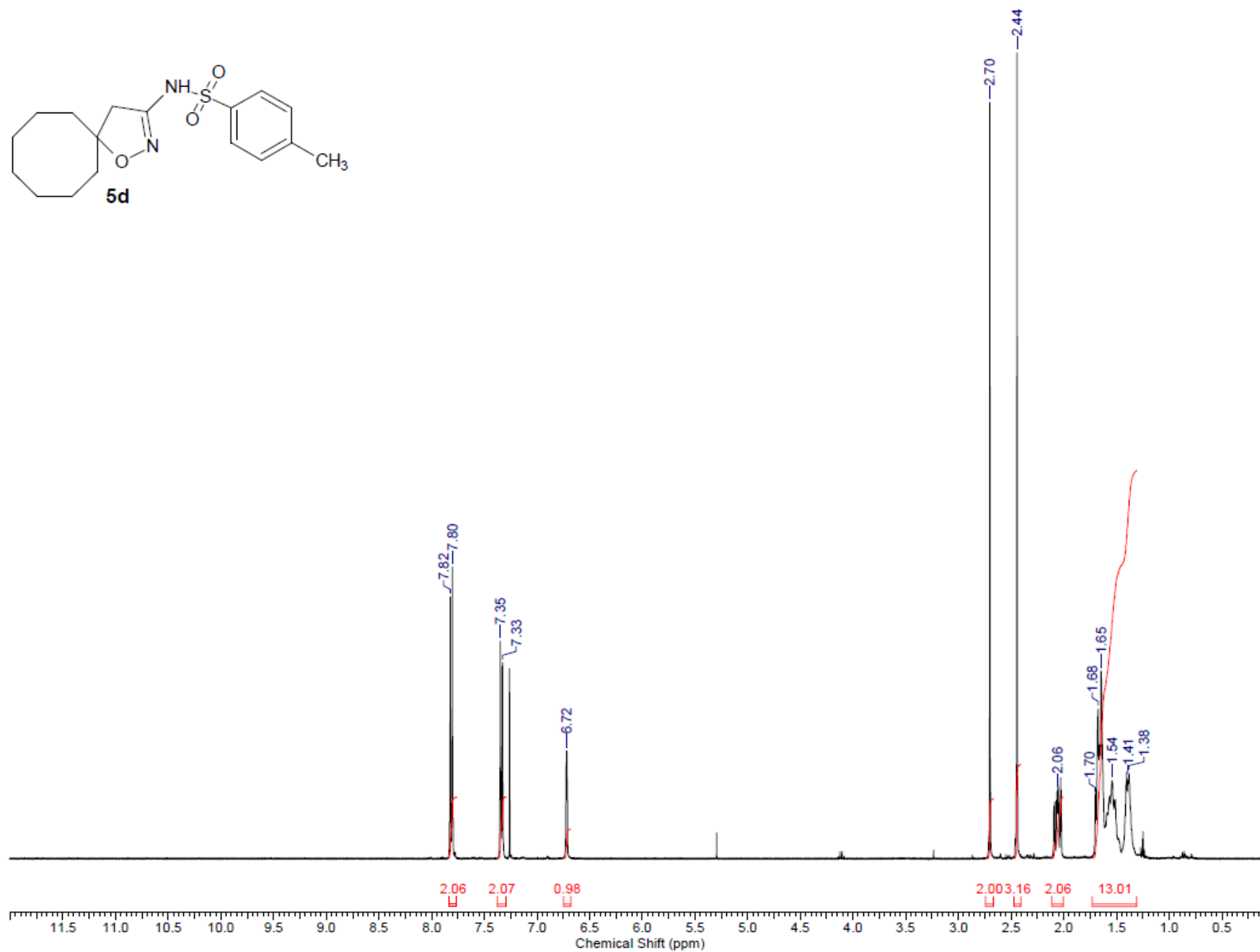
^1H NMR (CDCl_3) spectrum of compound **5c**



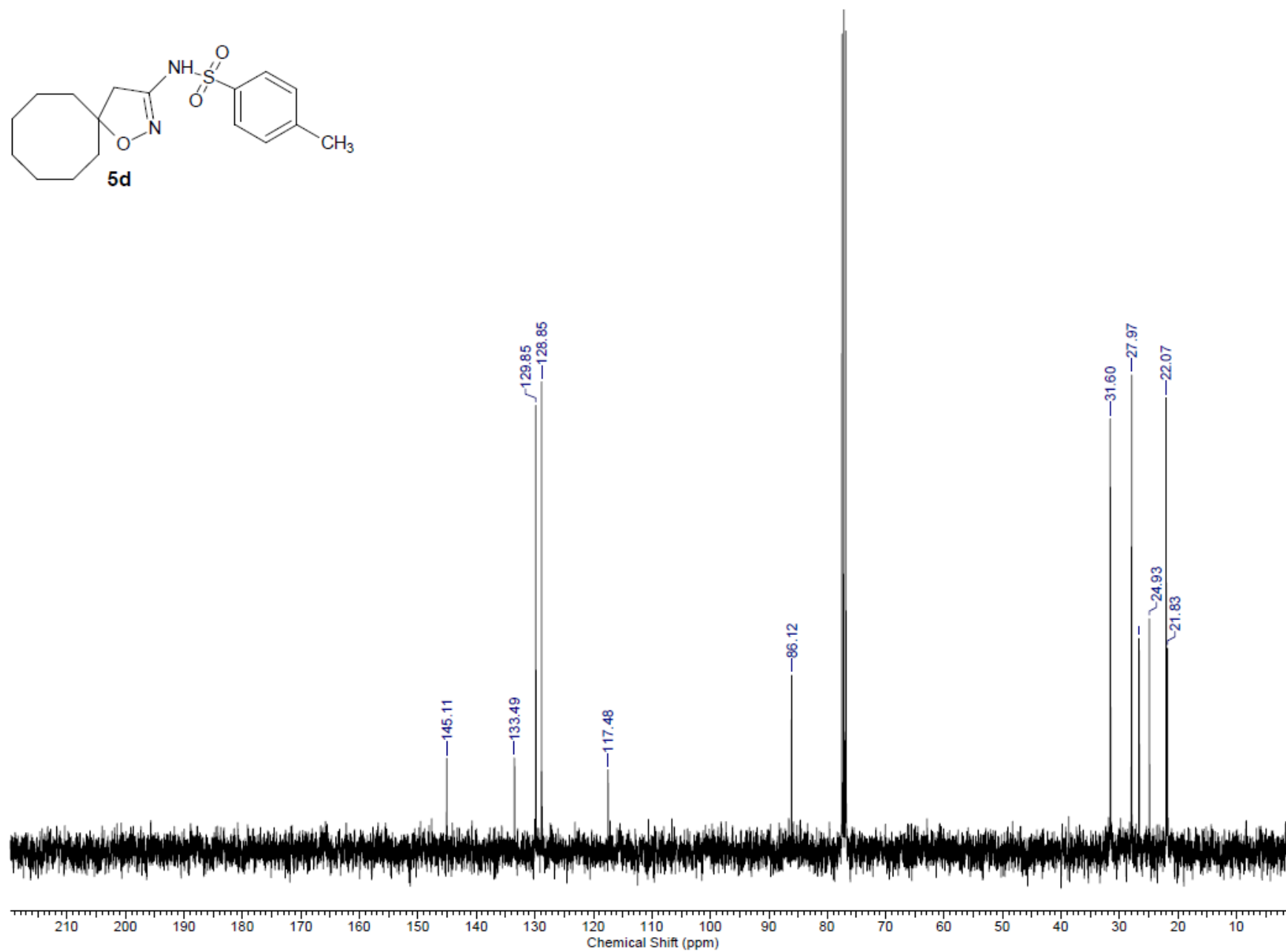
^{13}C NMR (CDCl_3) spectrum of compound **5c**



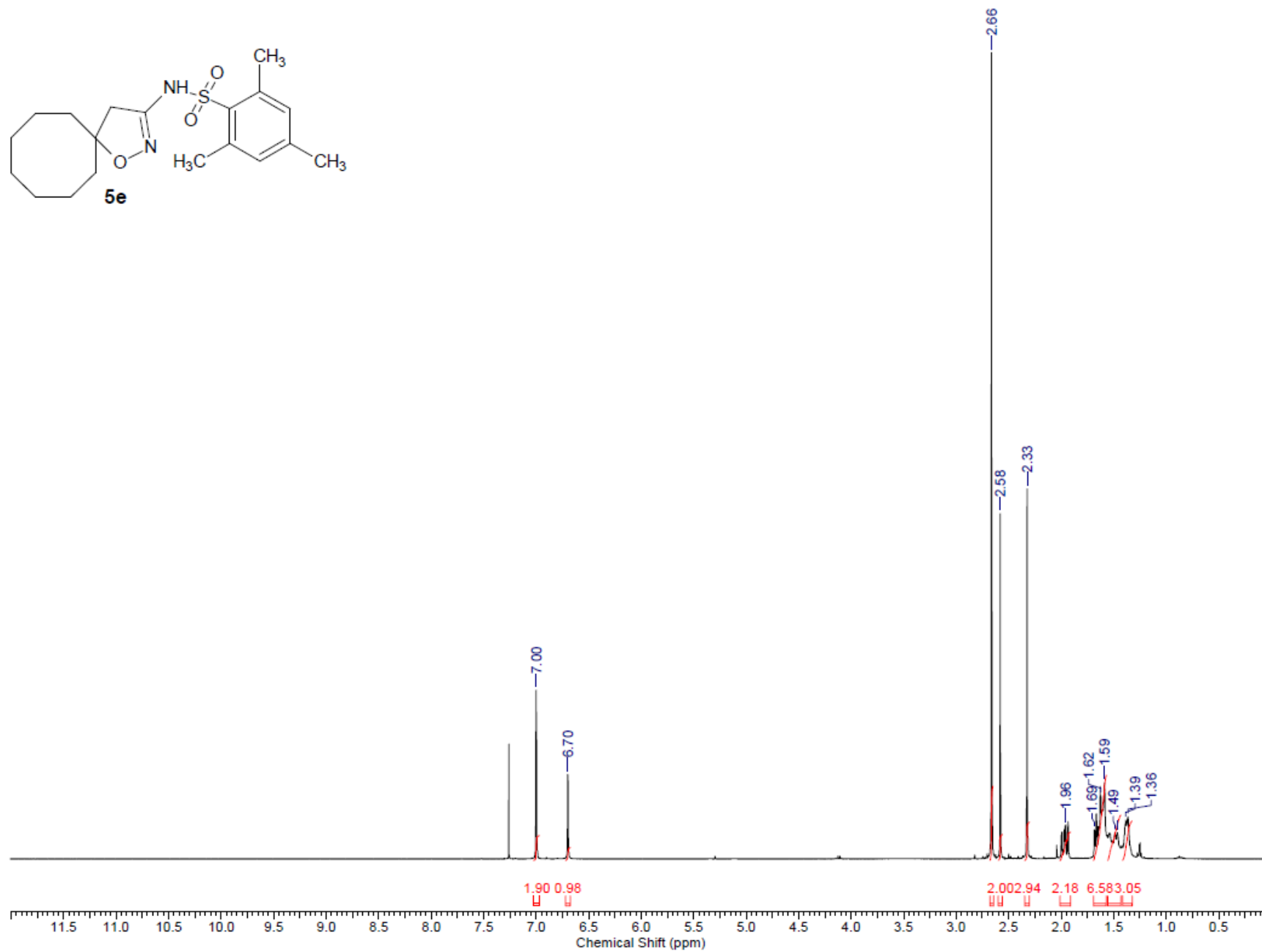
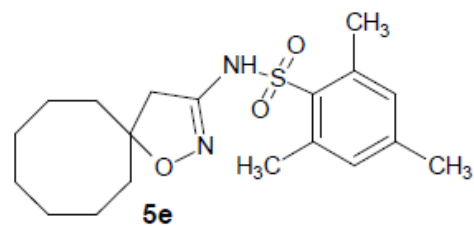
¹H NMR (CDCl₃) spectrum of compound **5d**



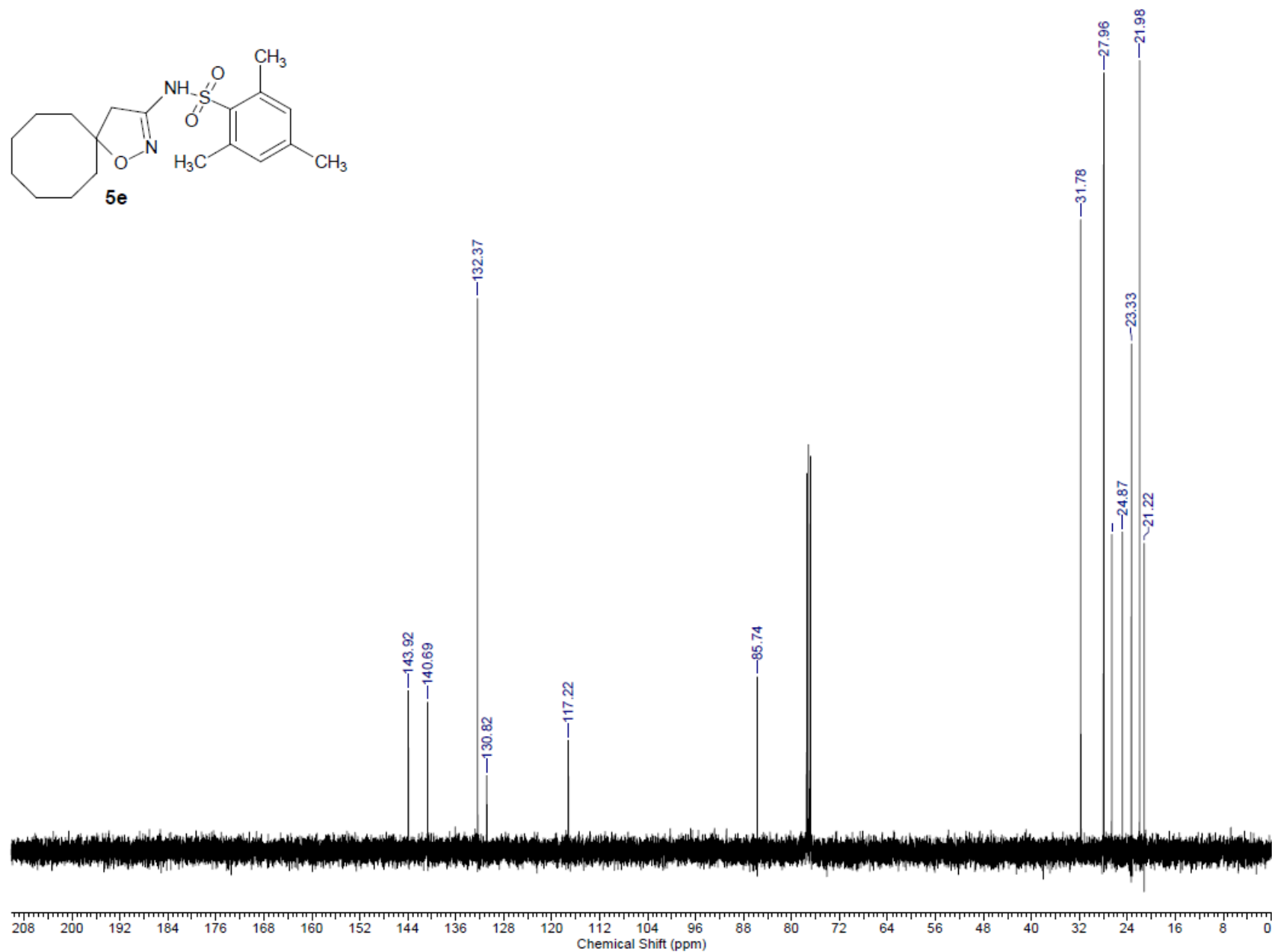
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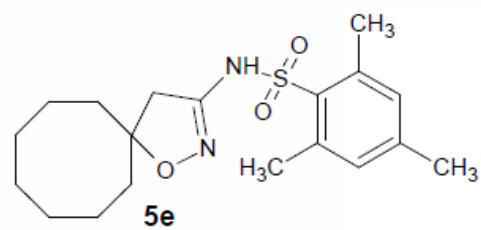


^1H NMR (CDCl_3) spectrum of compound **5e**

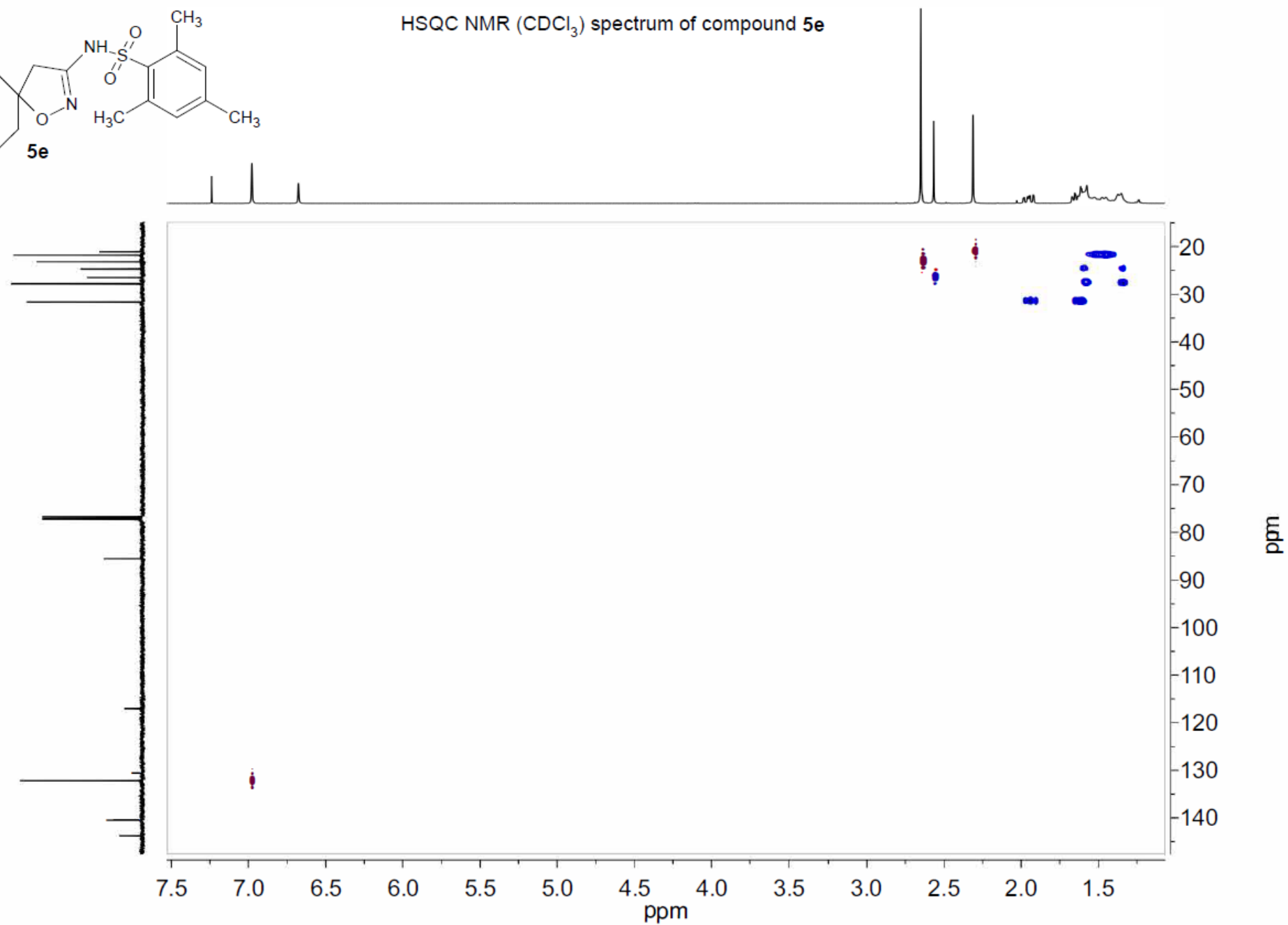


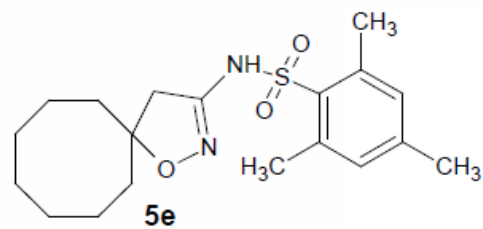
^{13}C NMR (CDCl_3) spectrum of compound **5e**



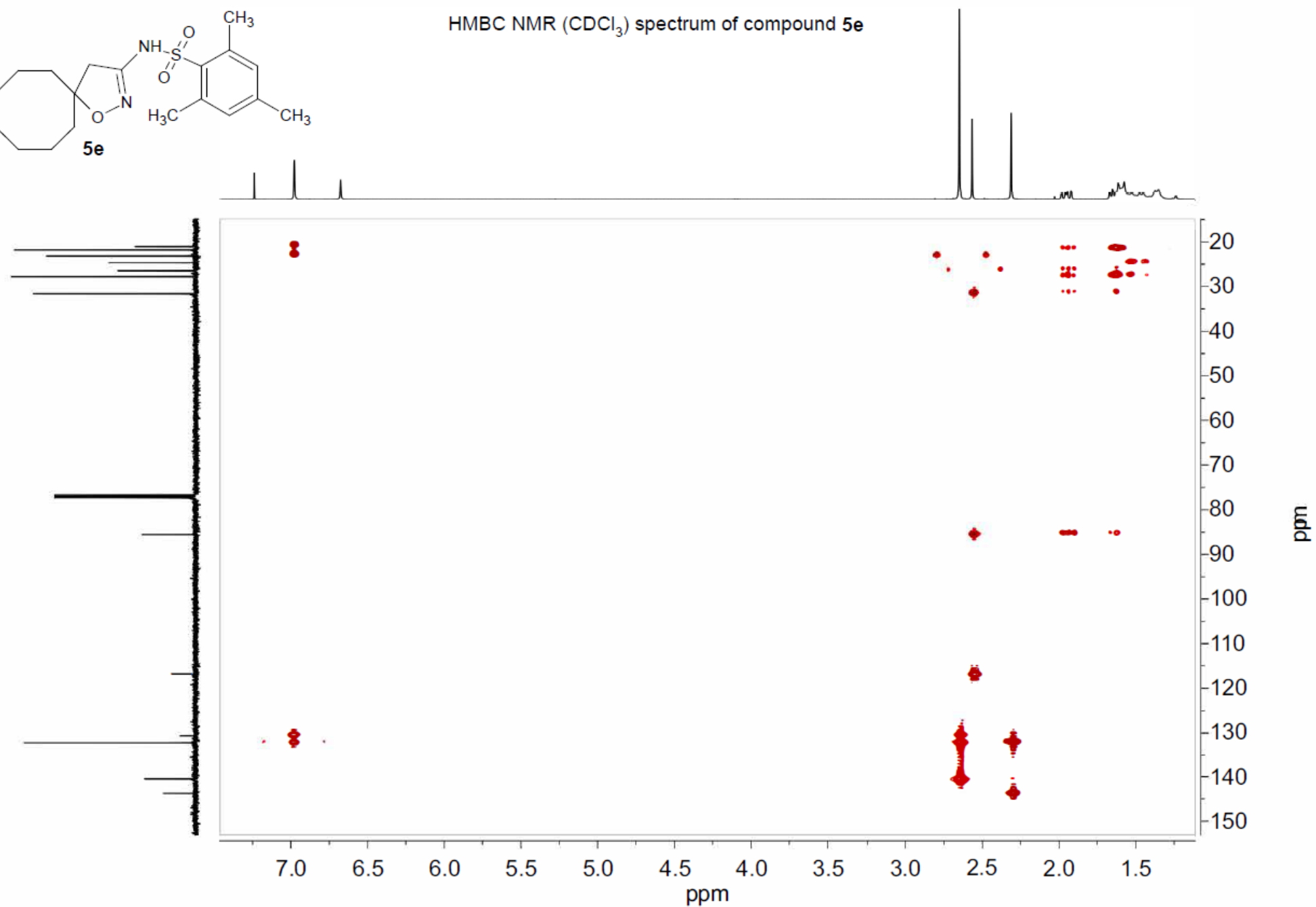


HSQC NMR (CDCl₃) spectrum of compound **5e**

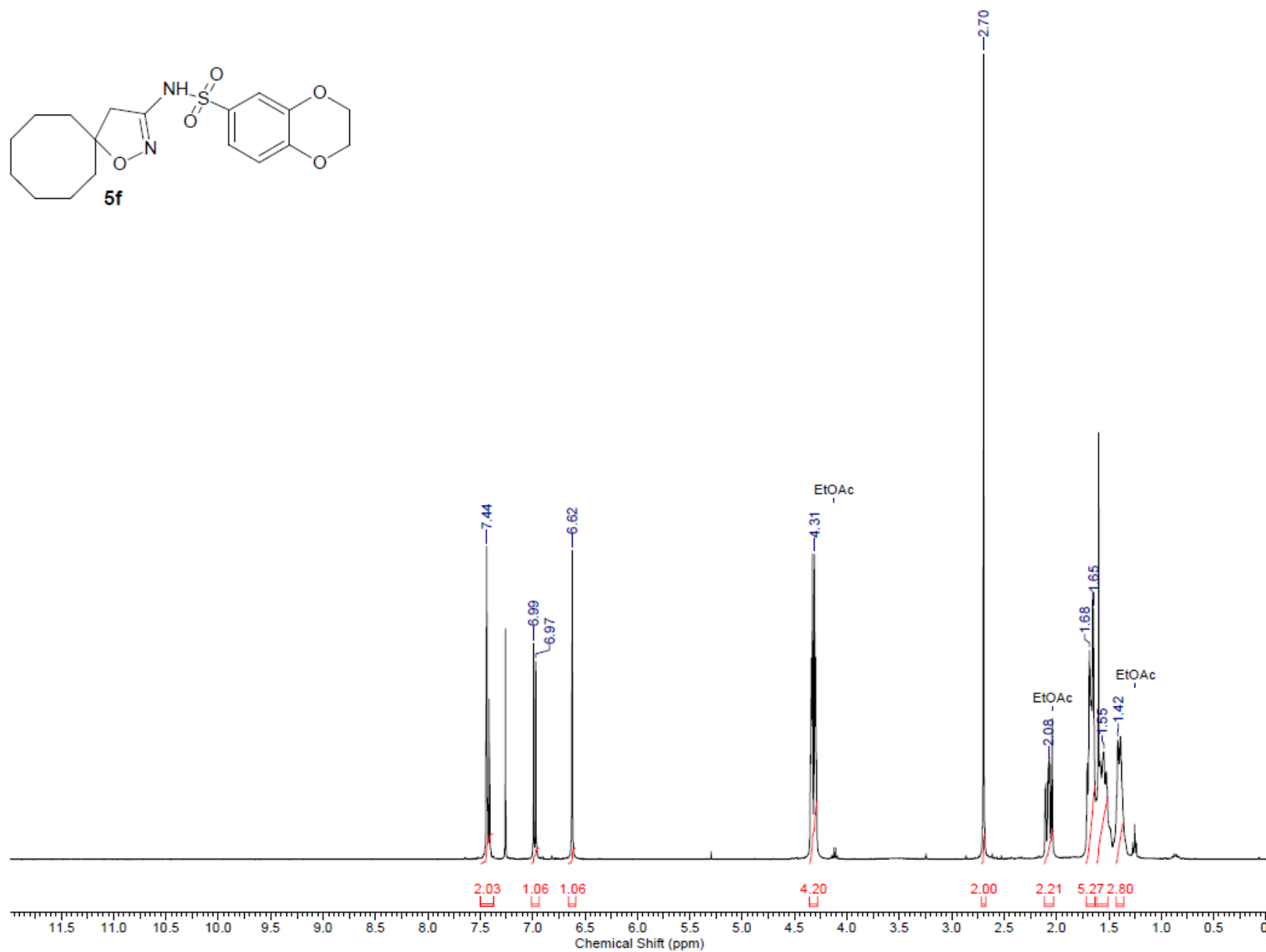




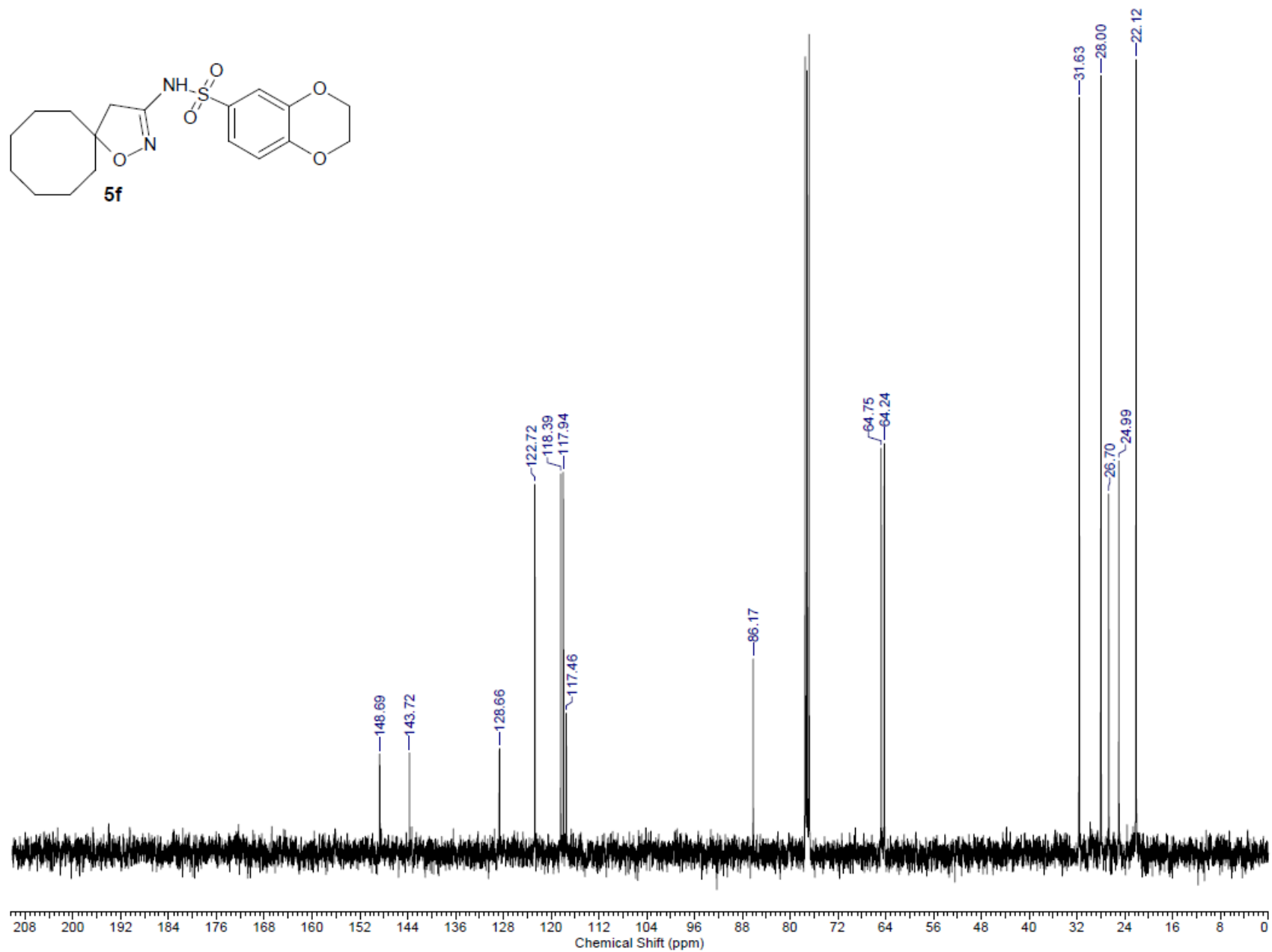
HMBC NMR (CDCl₃) spectrum of compound **5e**

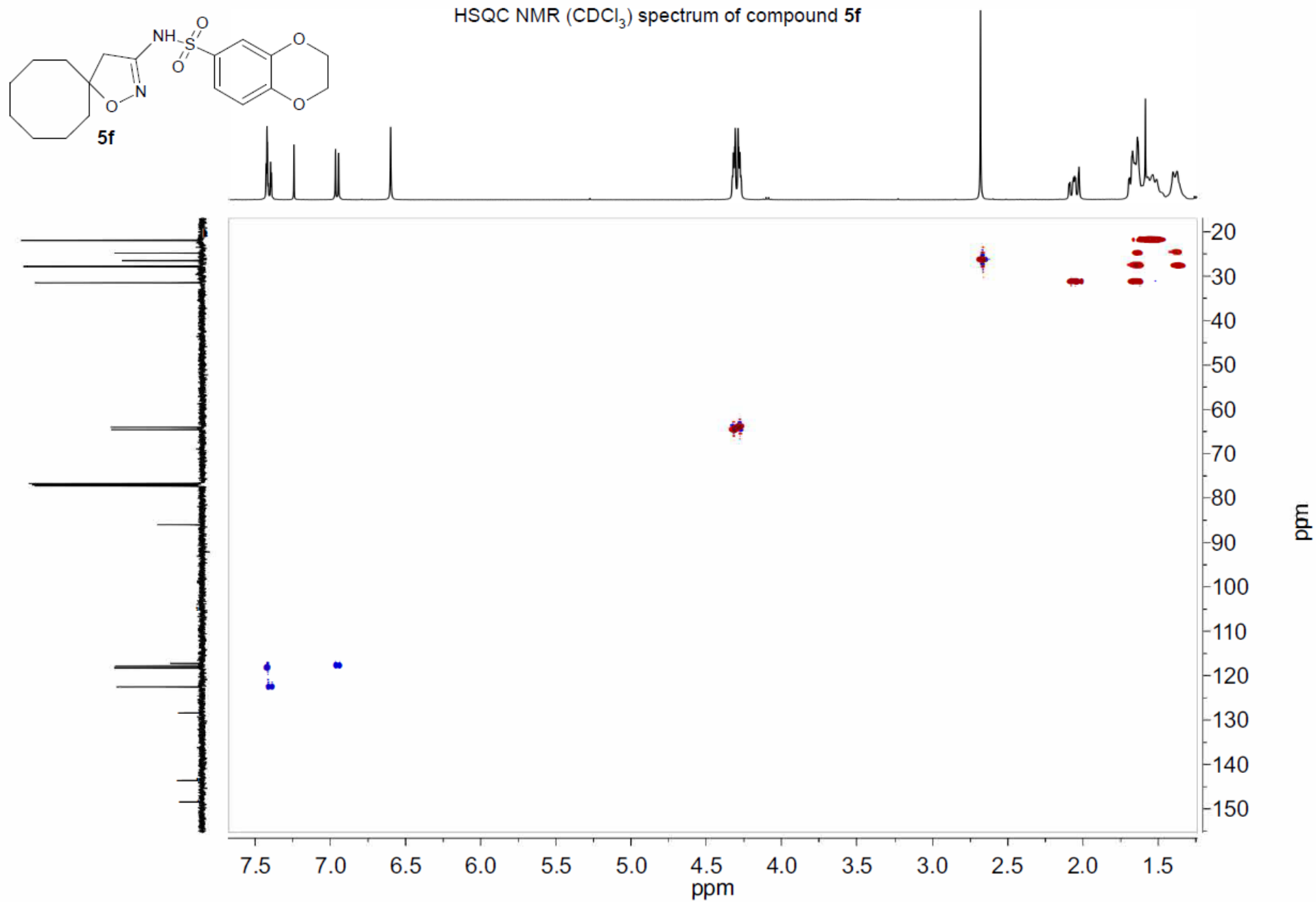


^1H NMR (CDCl_3) spectrum of compound **5f**

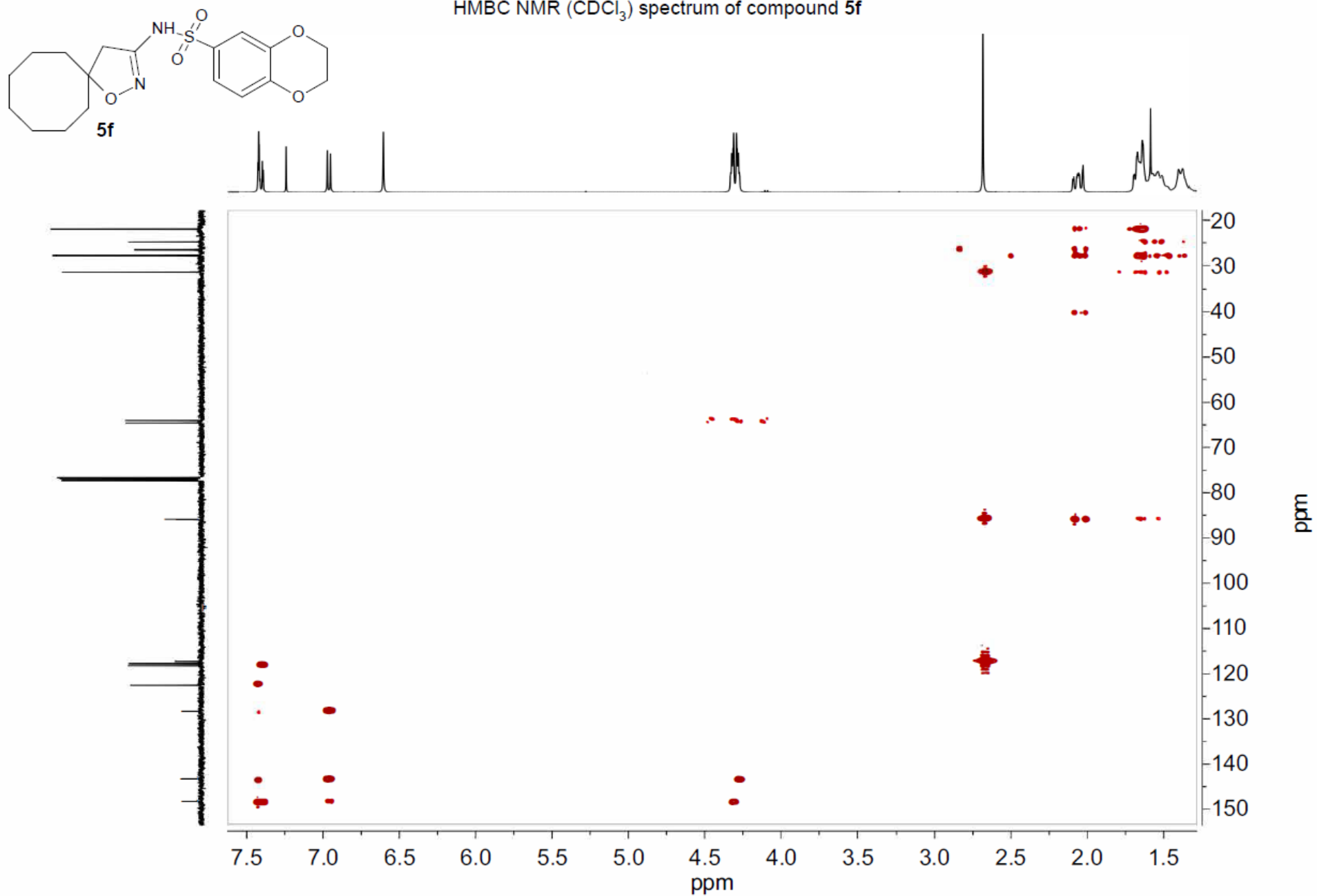


^{13}C NMR (CDCl_3) spectrum of compound **5f**

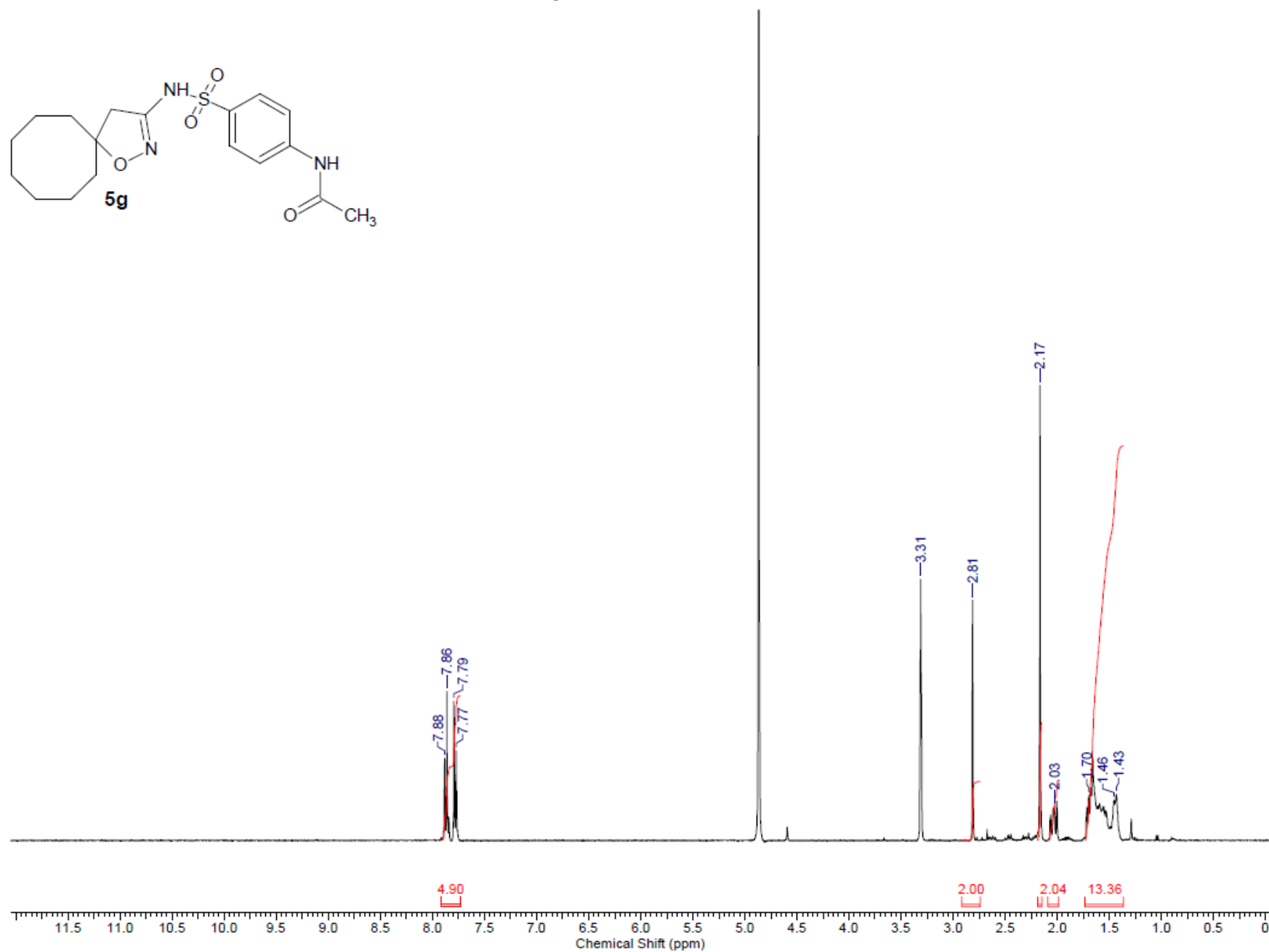
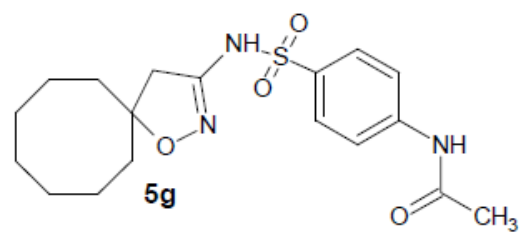




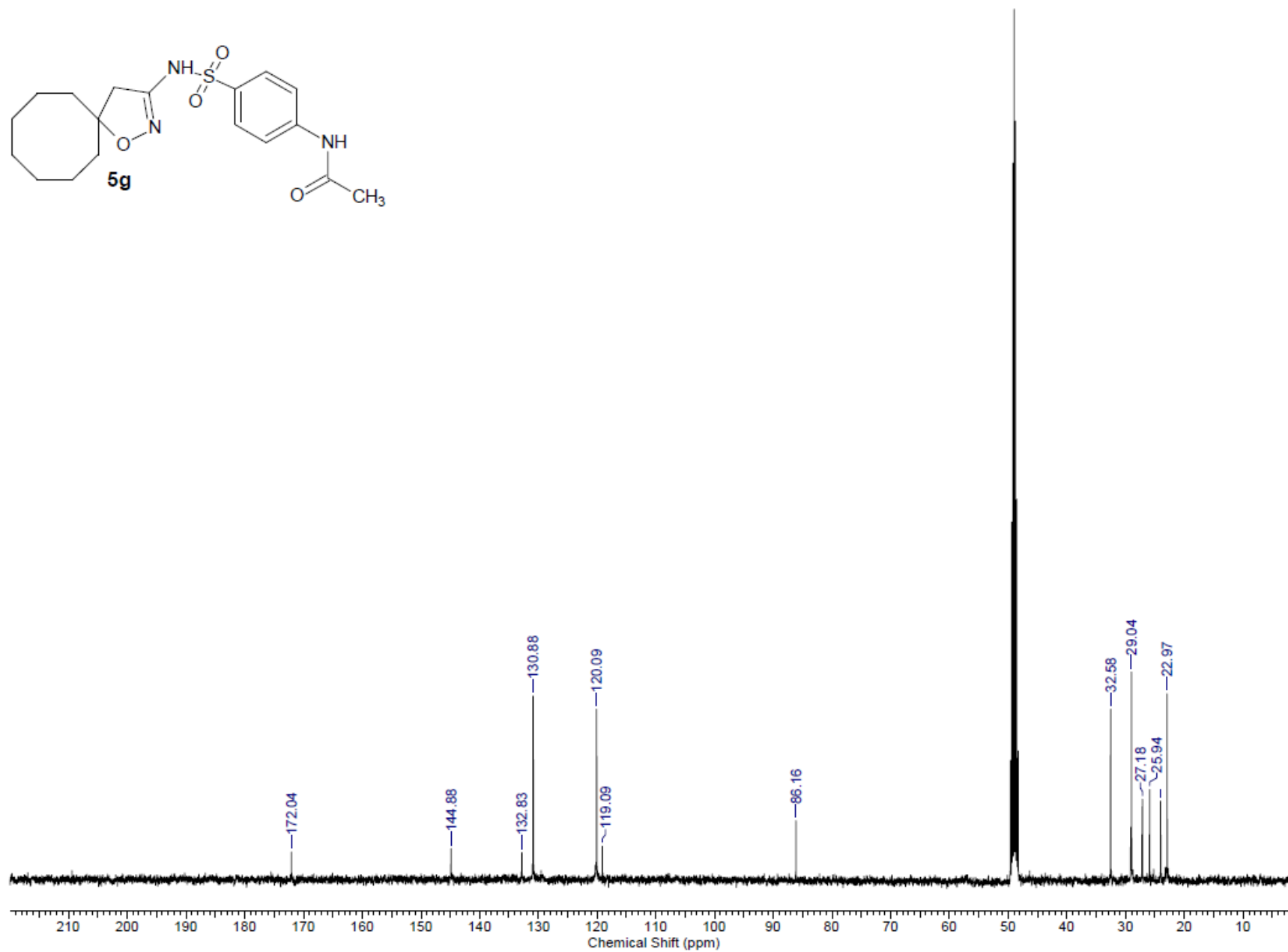
HMBC NMR (CDCl₃) spectrum of compound 5f



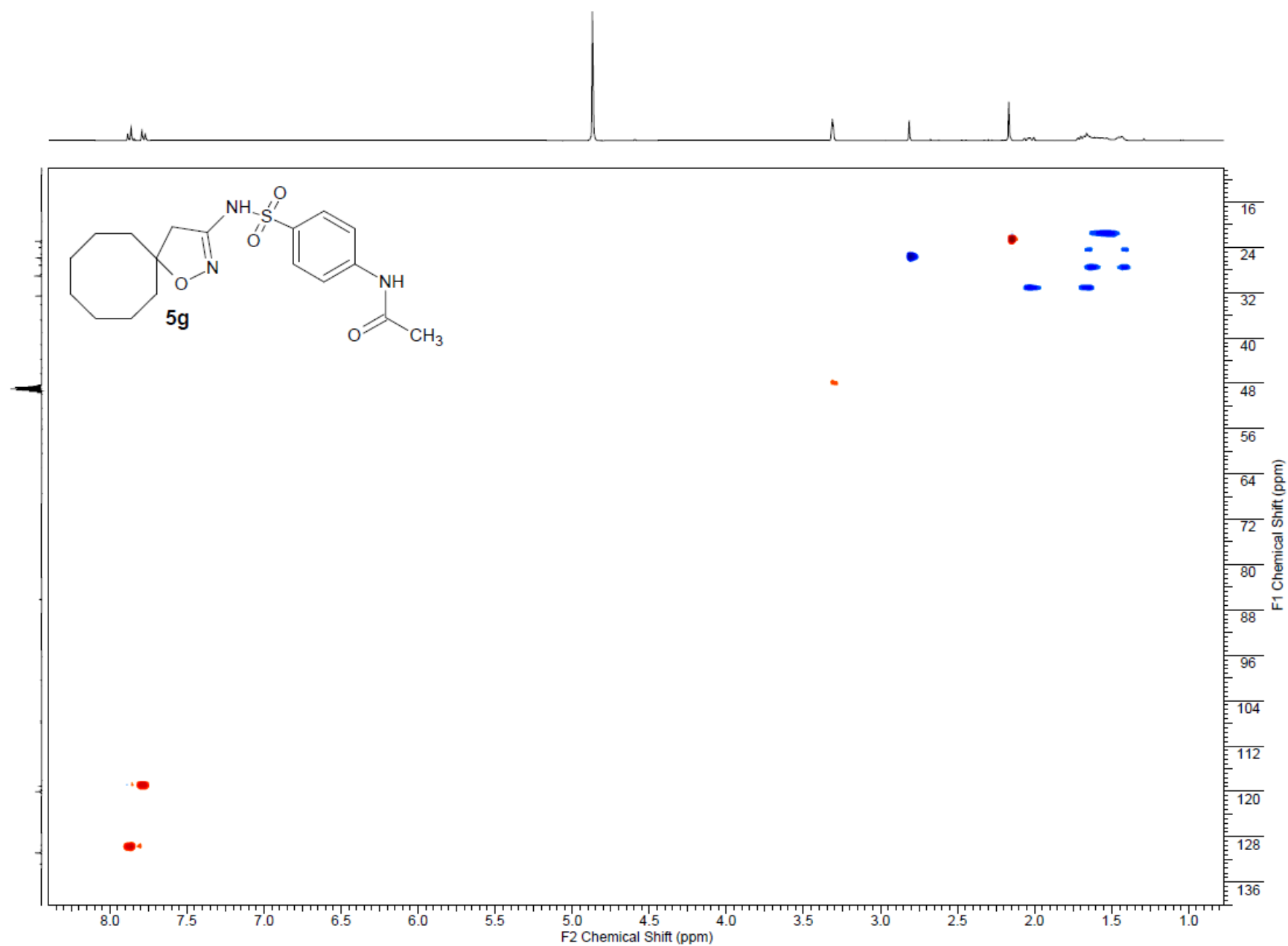
¹H NMR (CD₃OD) spectrum of compound **5g**

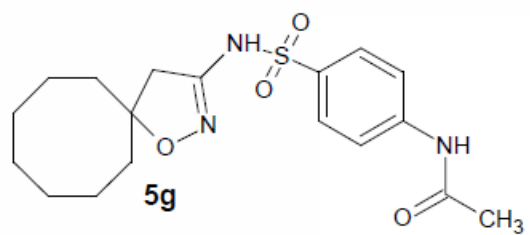


^{13}C NMR (CD_3OD) spectrum of compound **5g**

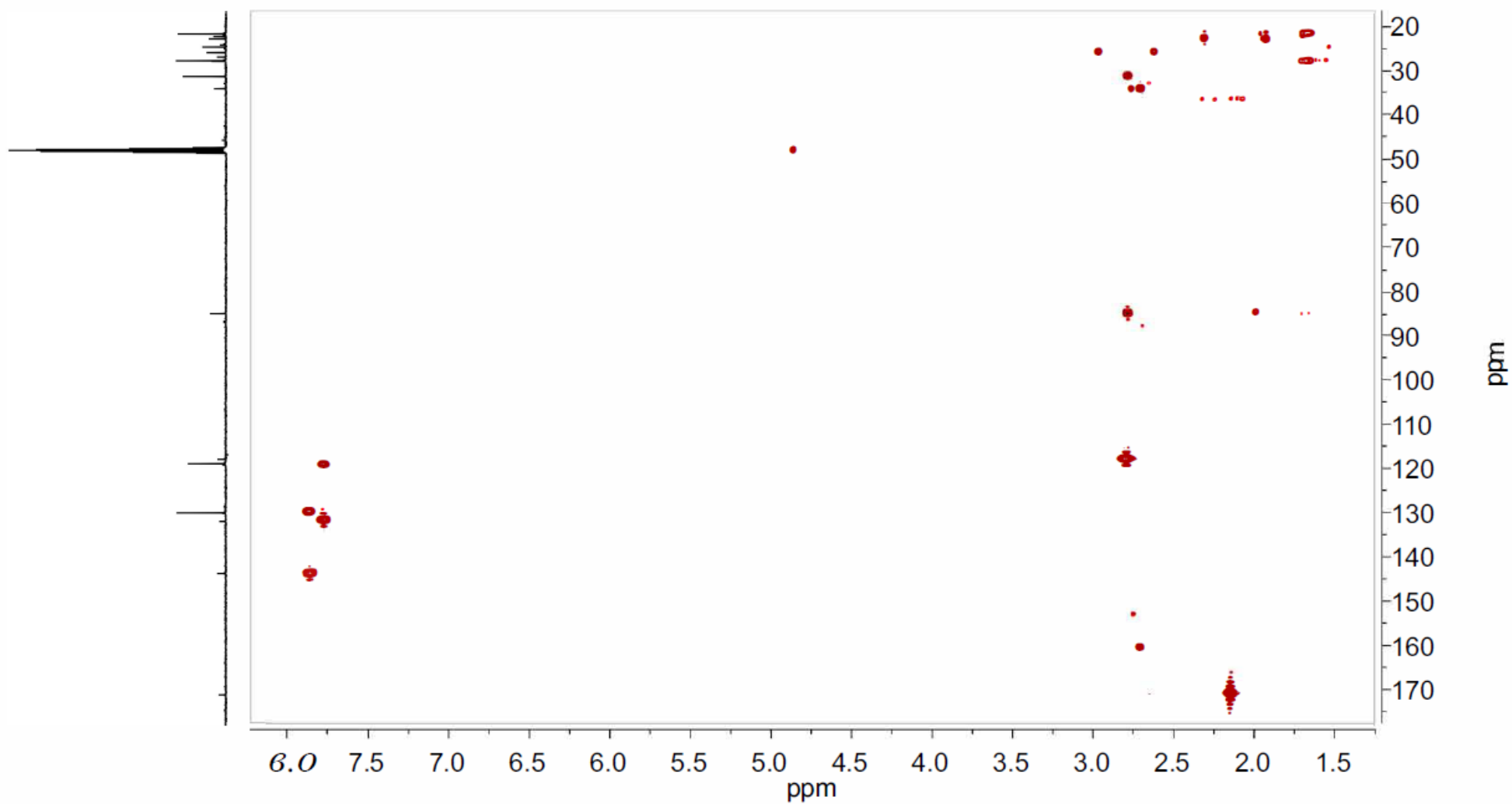


HSQC NMR (CD₃OD) spectrum of compound 5g

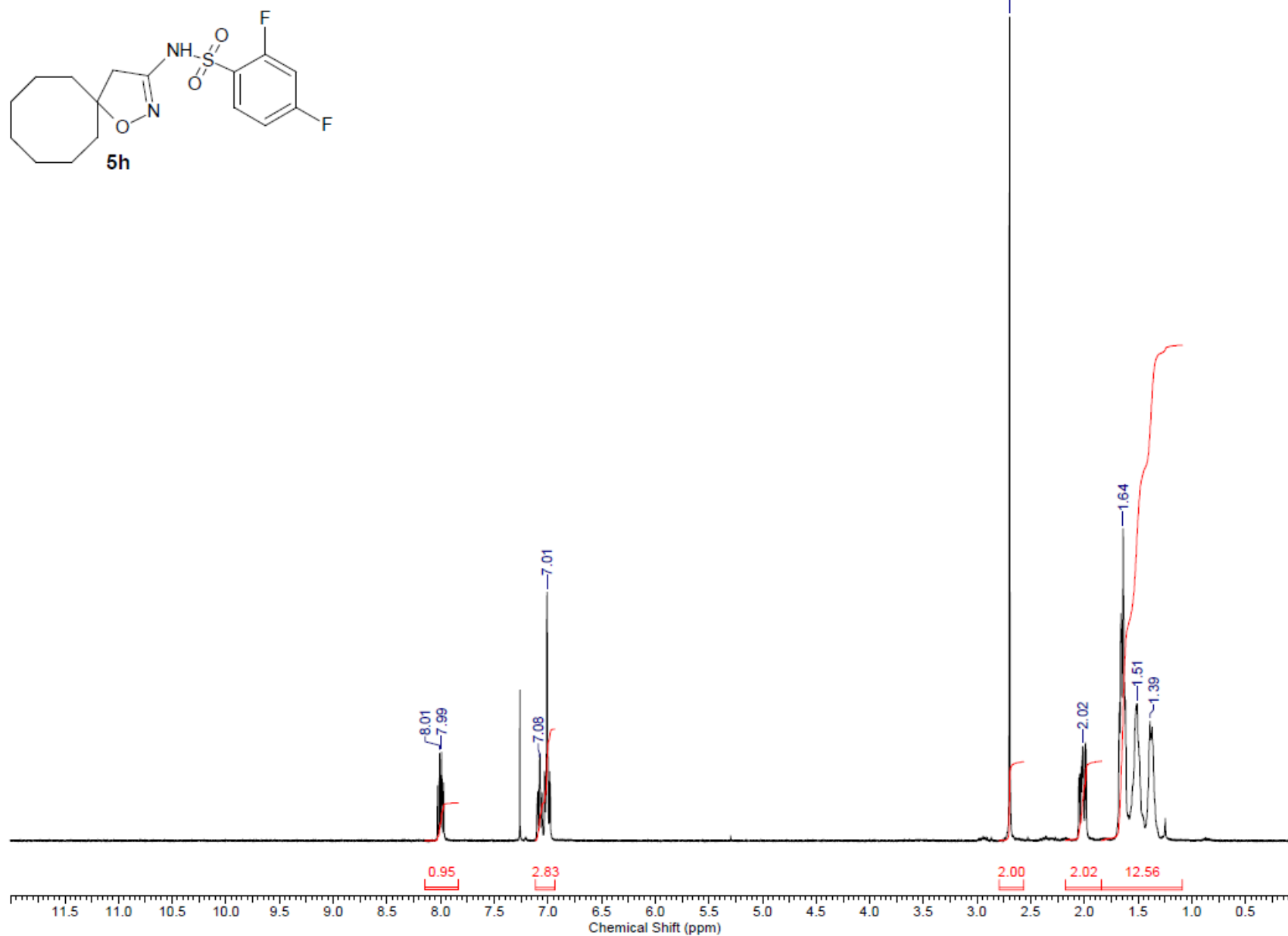




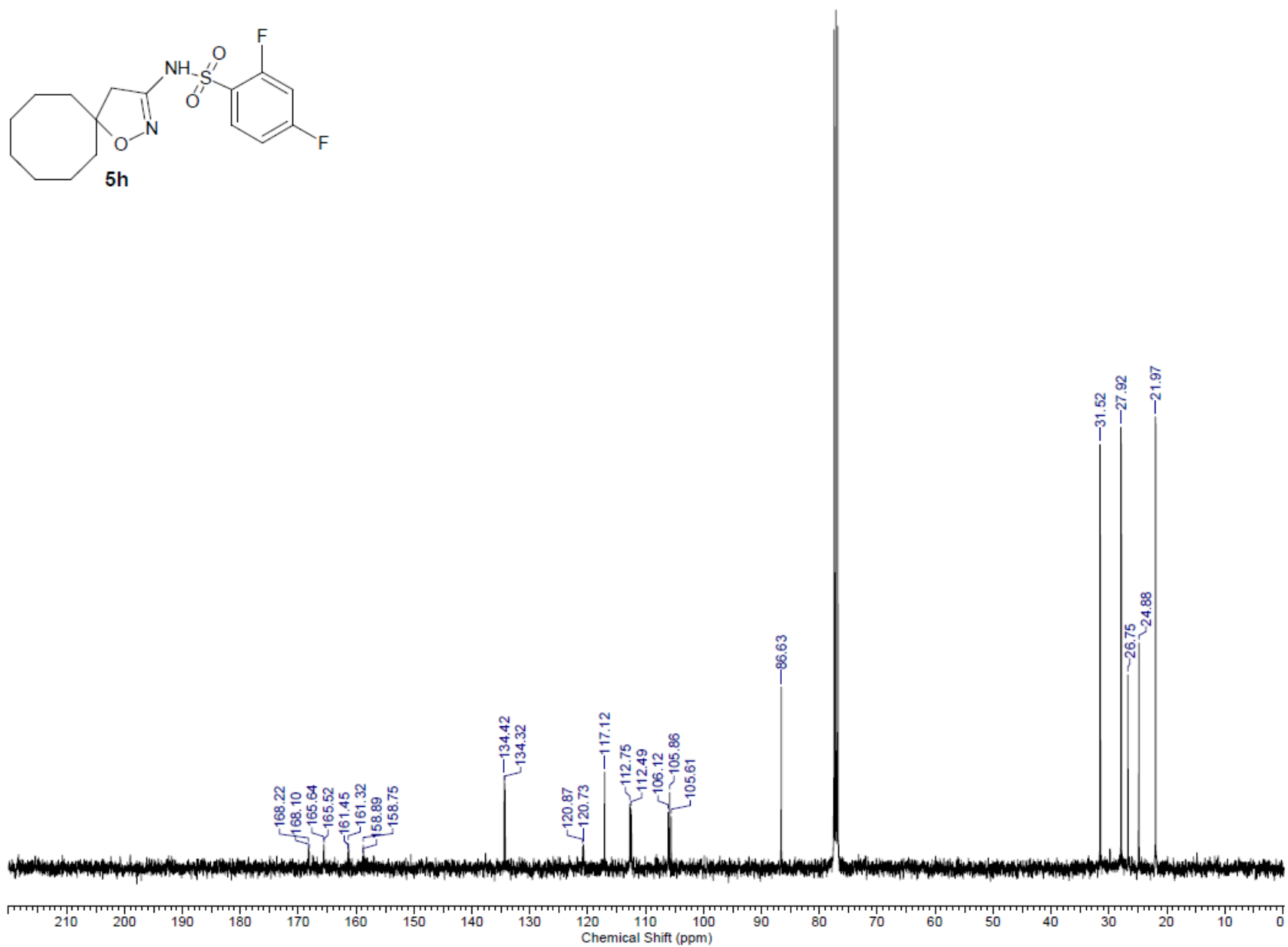
HMBC NMR (CD_3OD) spectrum of compound **5g**



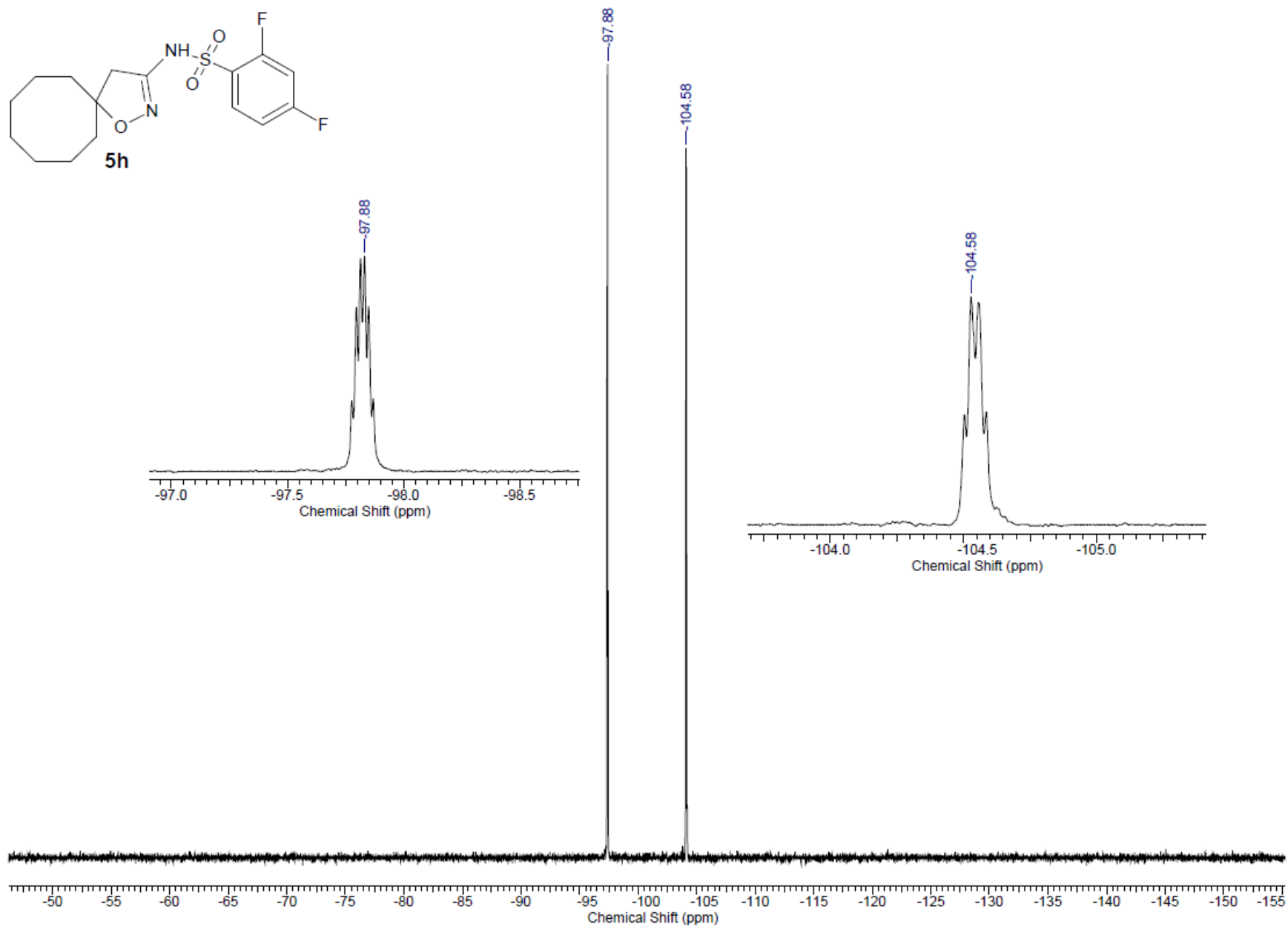
^1H NMR (CDCl_3) spectrum of compound **5h**



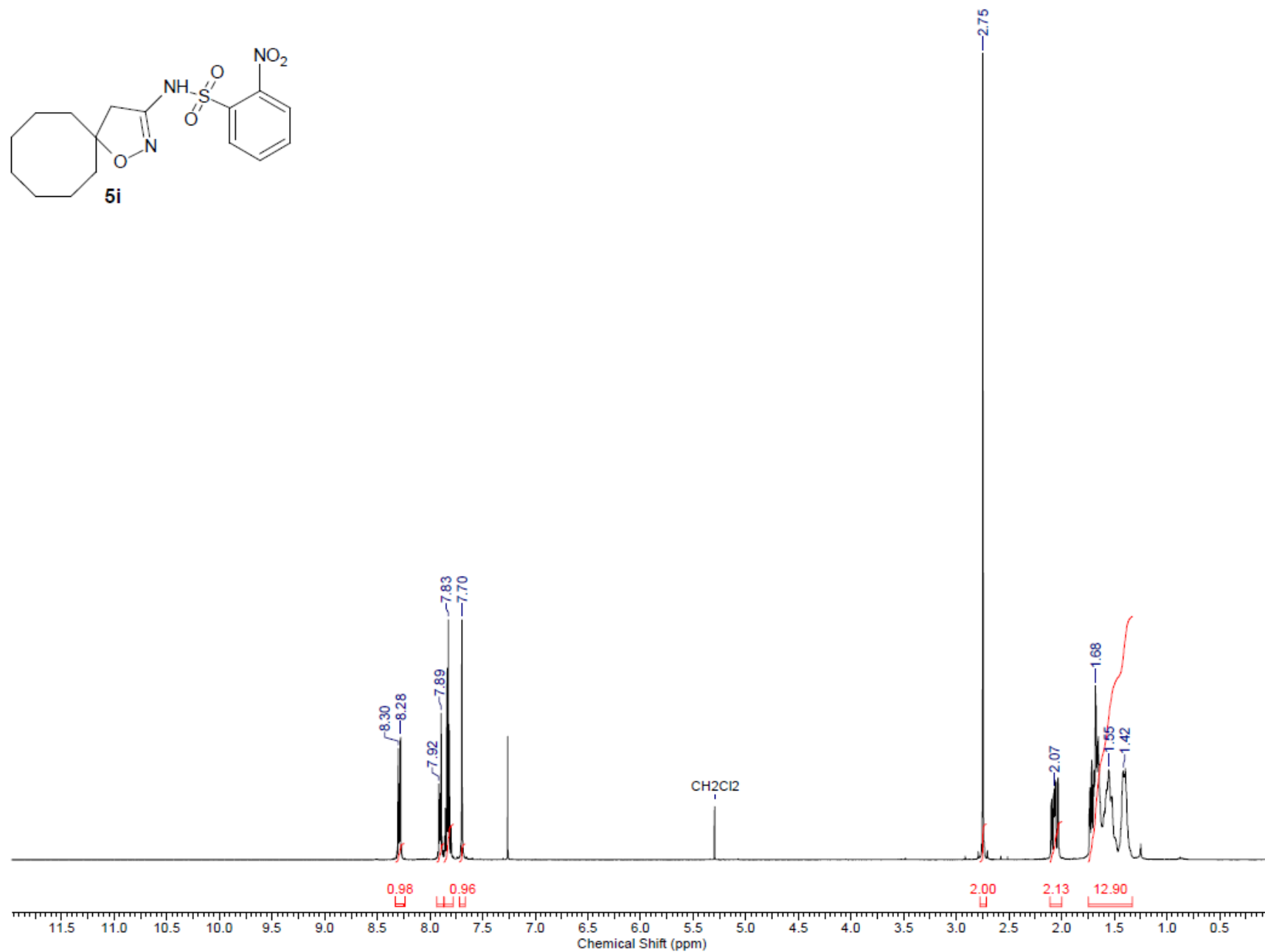
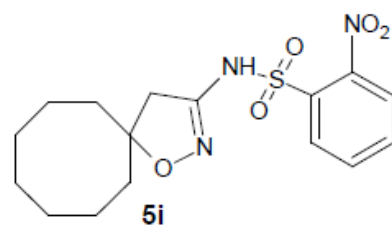
^{13}C NMR (CDCl_3) spectrum of compound **5h**



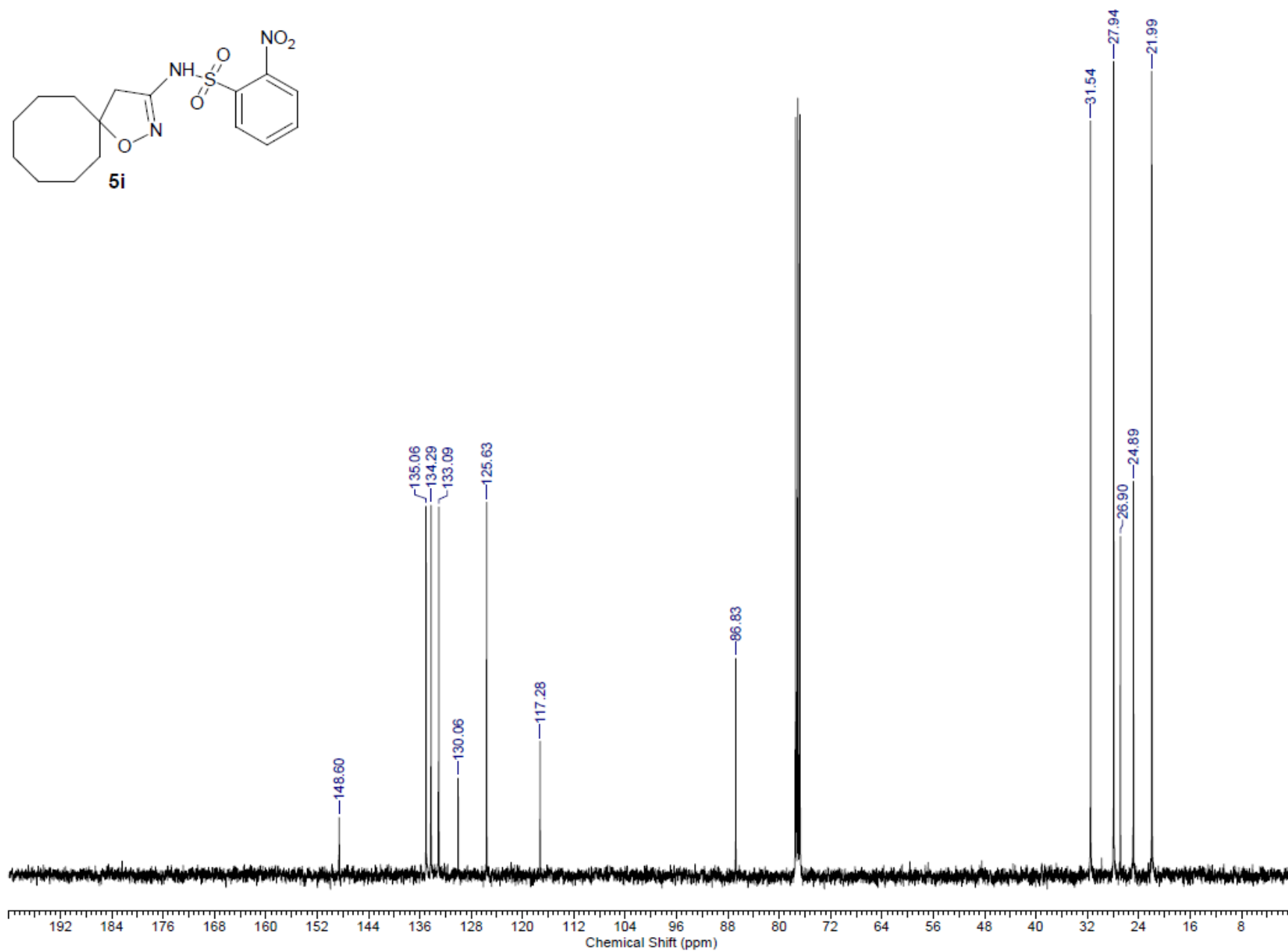
^{19}F NMR (CDCl_3) spectrum of compound 5h



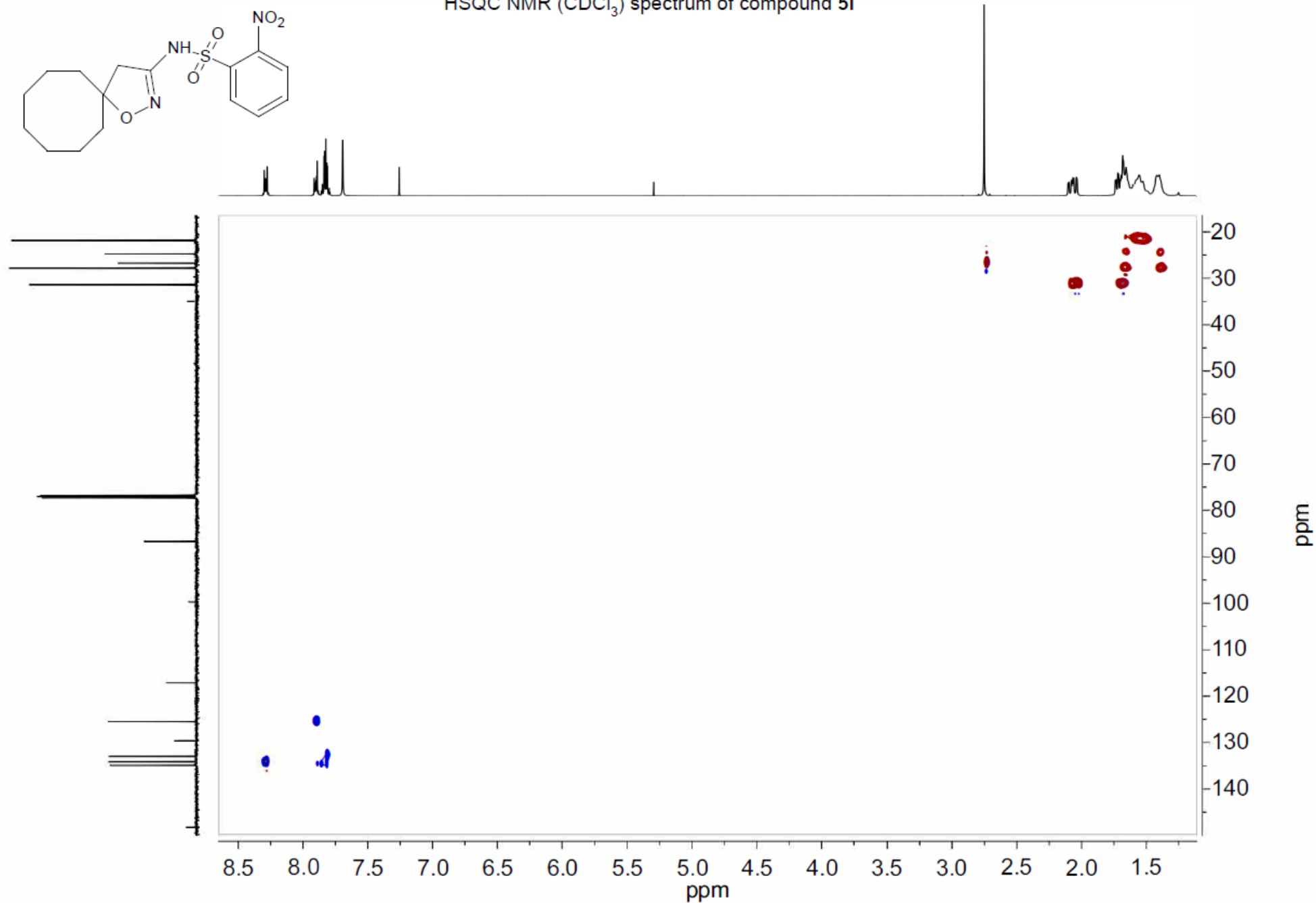
^1H NMR (CDCl_3) spectrum of compound **5i**



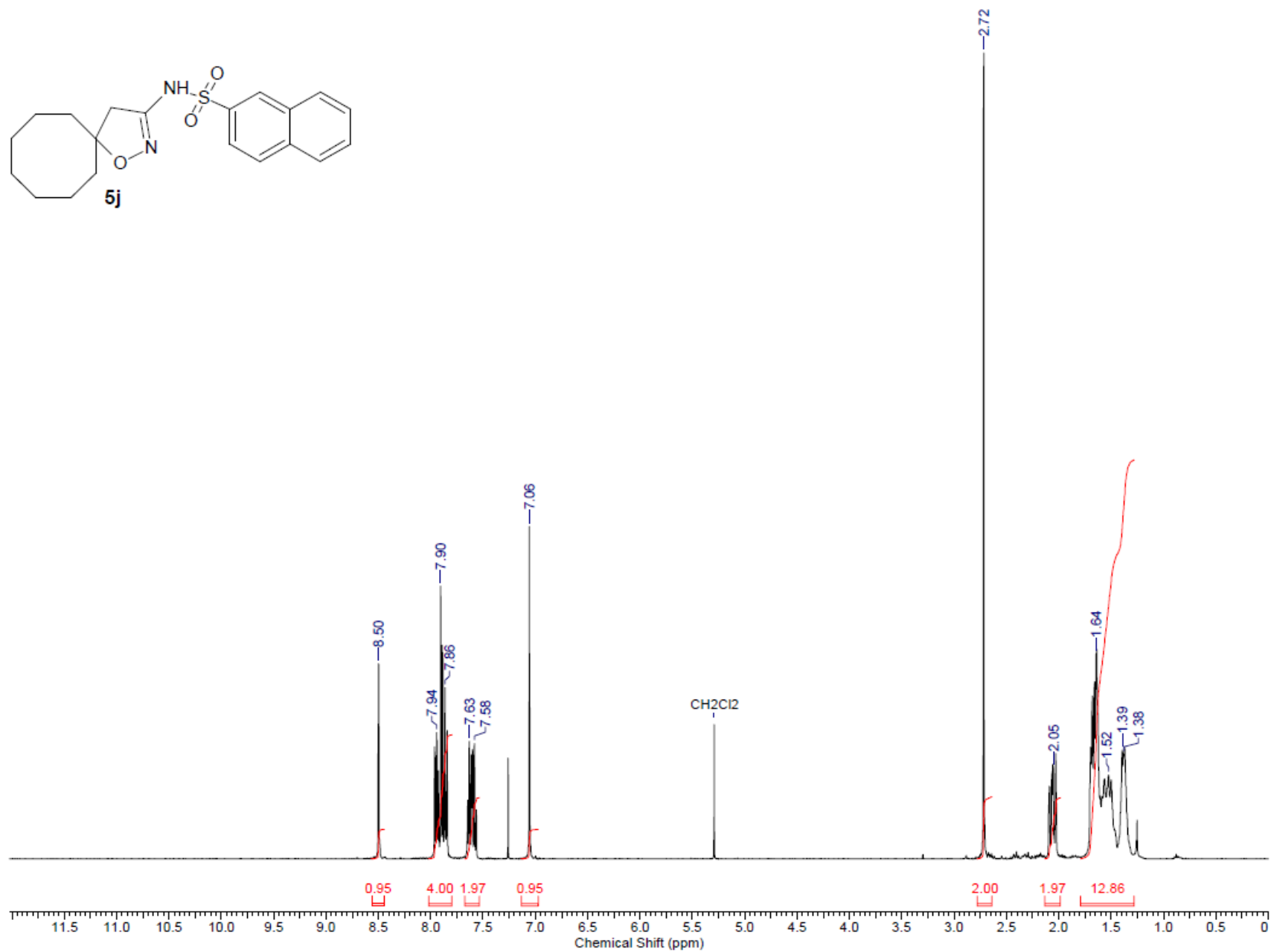
^{13}C NMR (CDCl_3) spectrum of compound **5i**



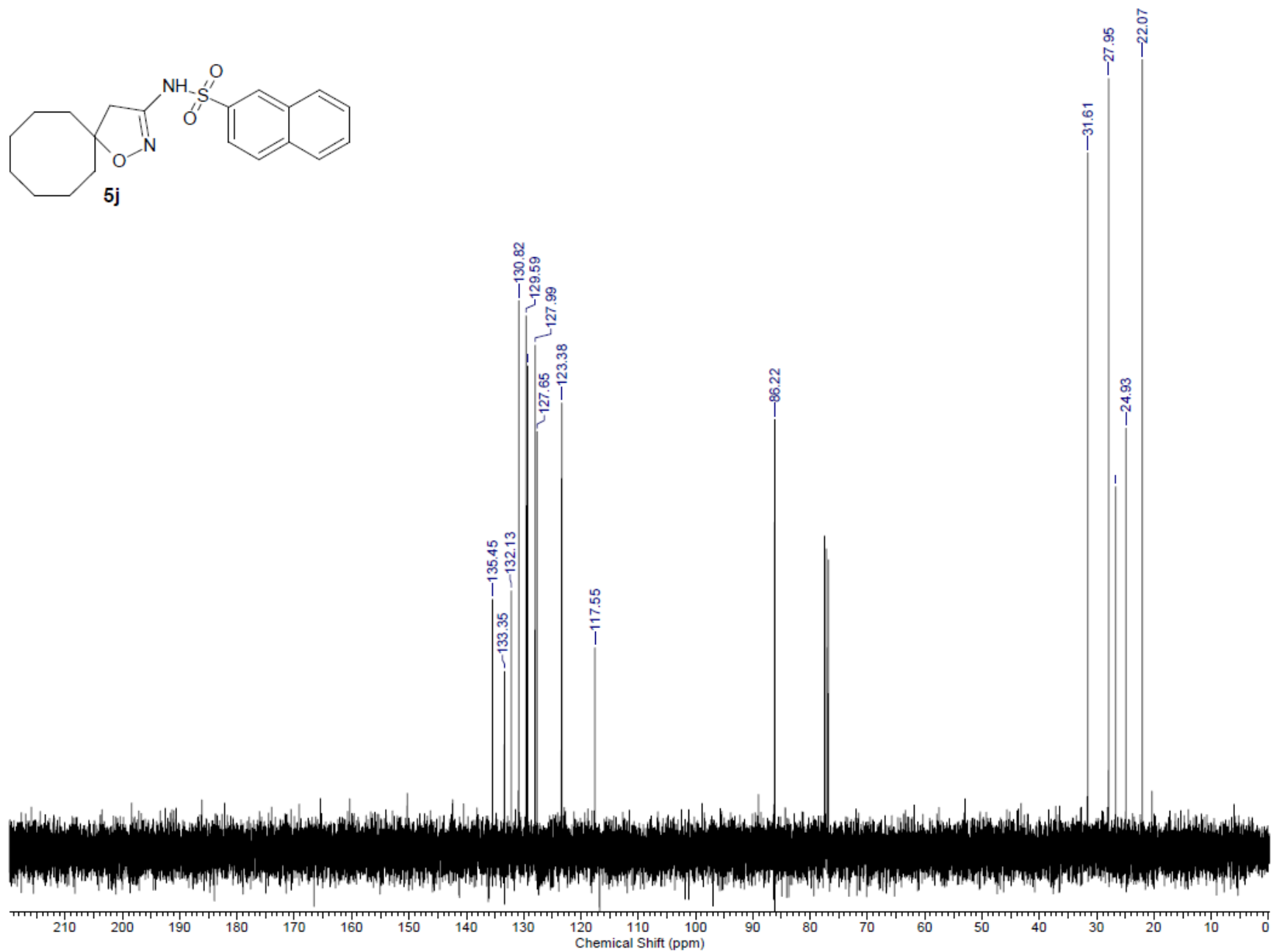
HSQC NMR (CDCl₃) spectrum of compound 5i



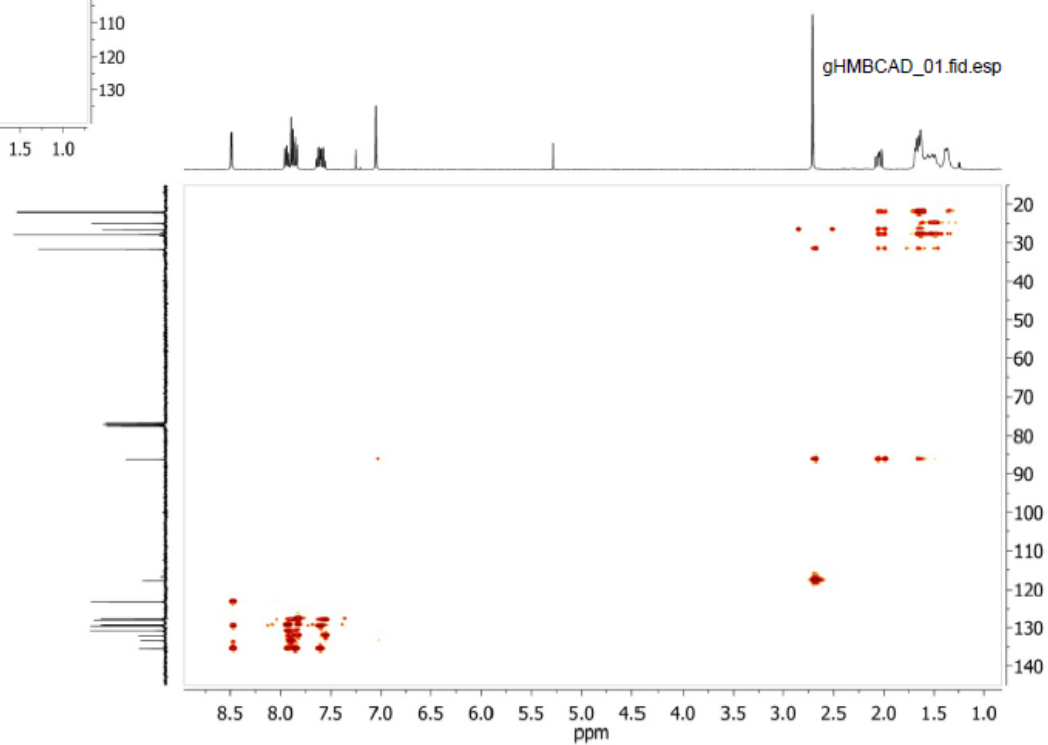
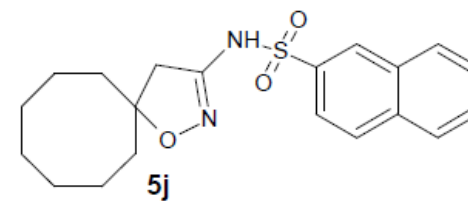
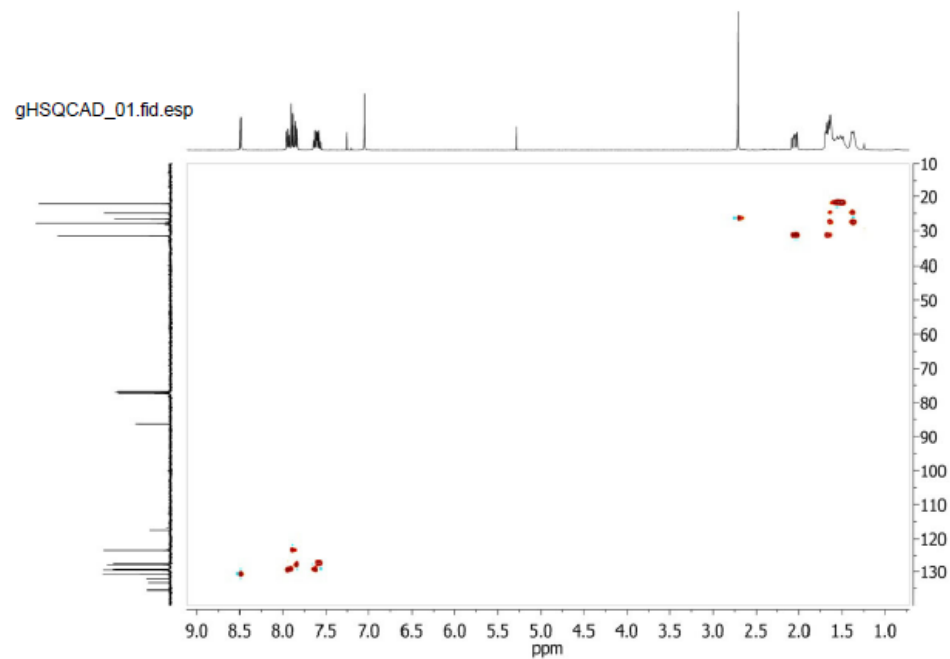
^1H NMR (CDCl_3) spectrum of compound **5j**



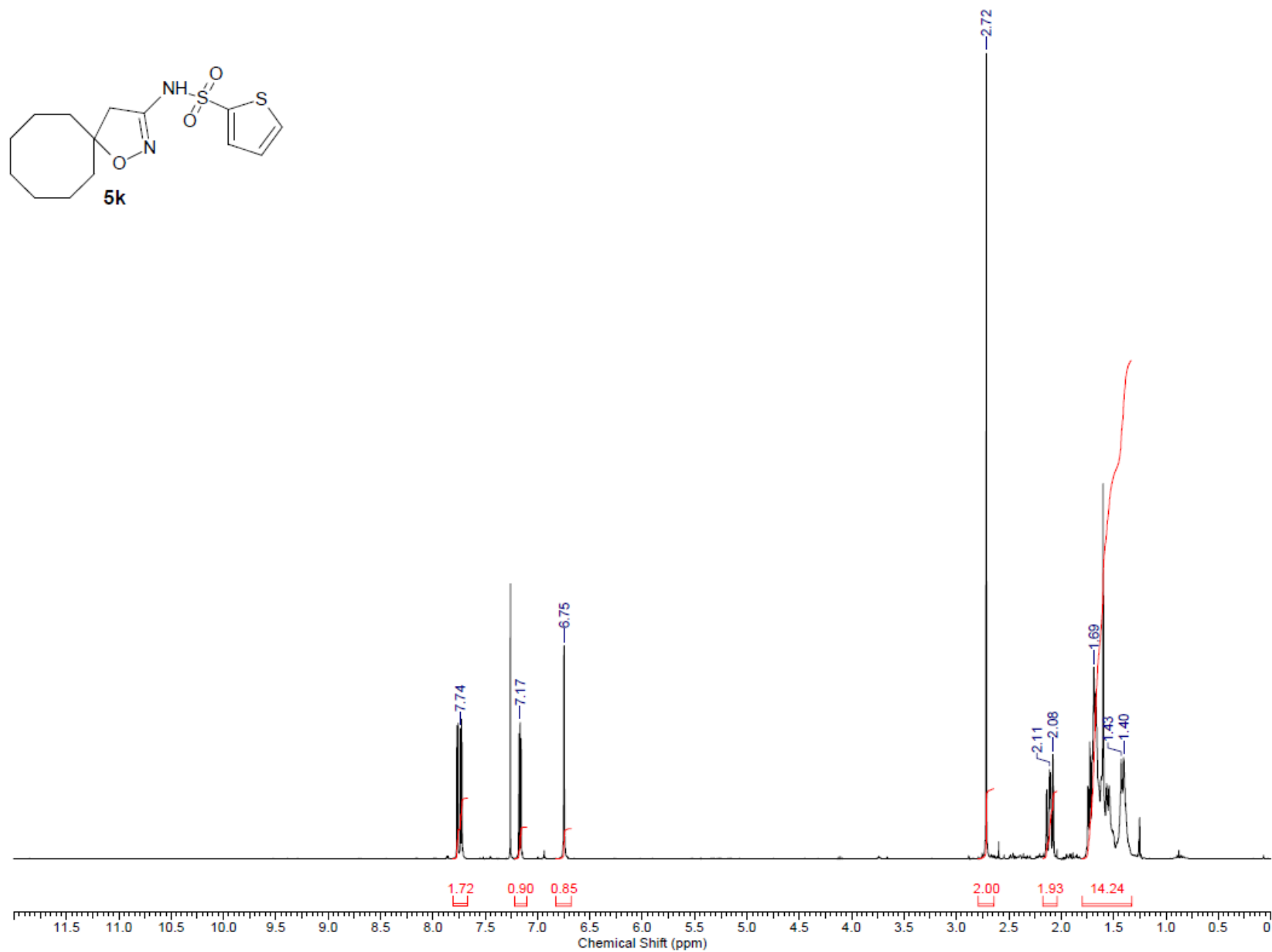
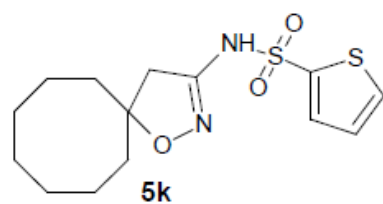
^{13}C NMR (CDCl_3) spectrum of compound **5j**



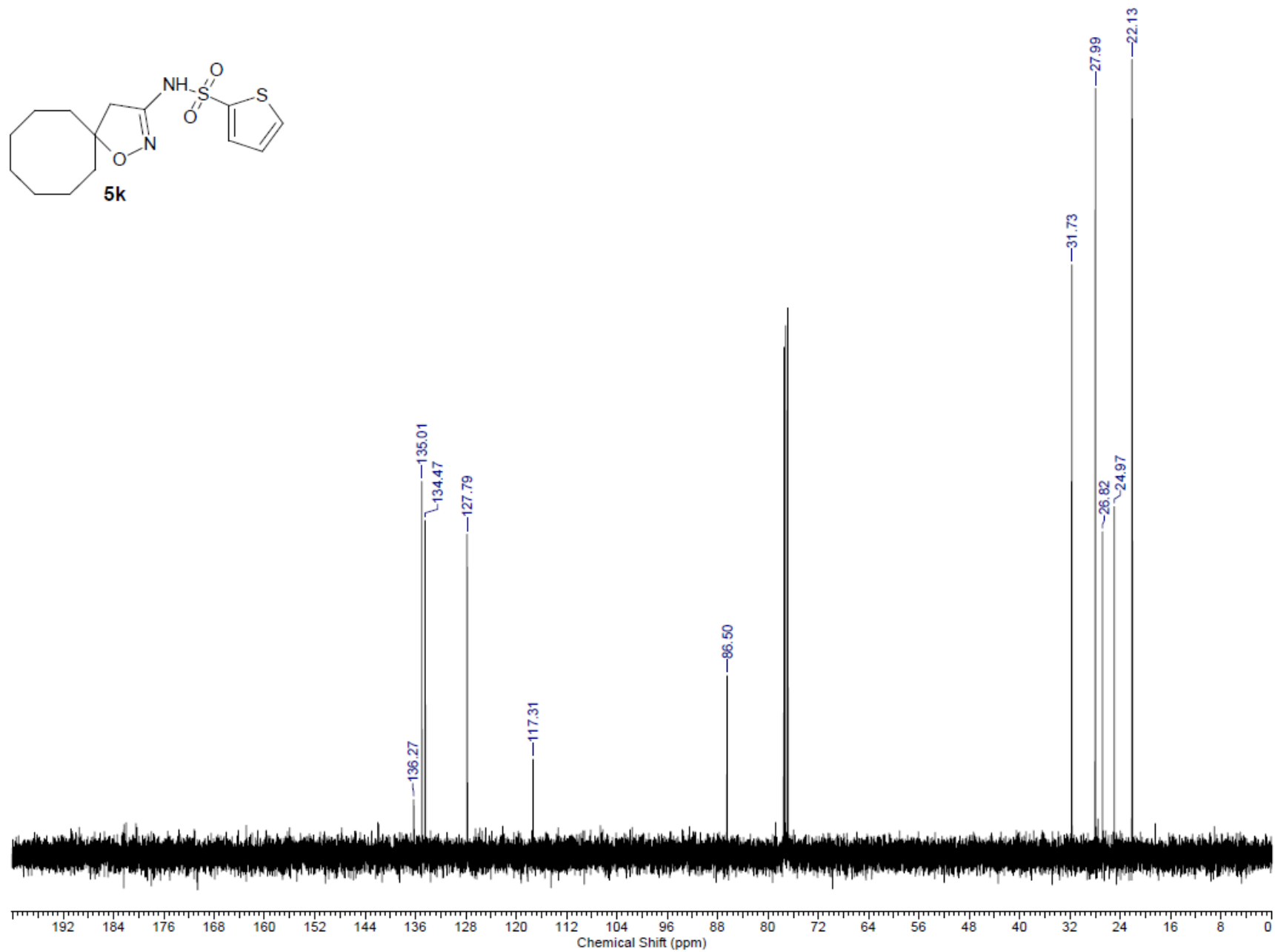
HSQC and HMBC NMR (CDCl₃) spectra of compound 5j



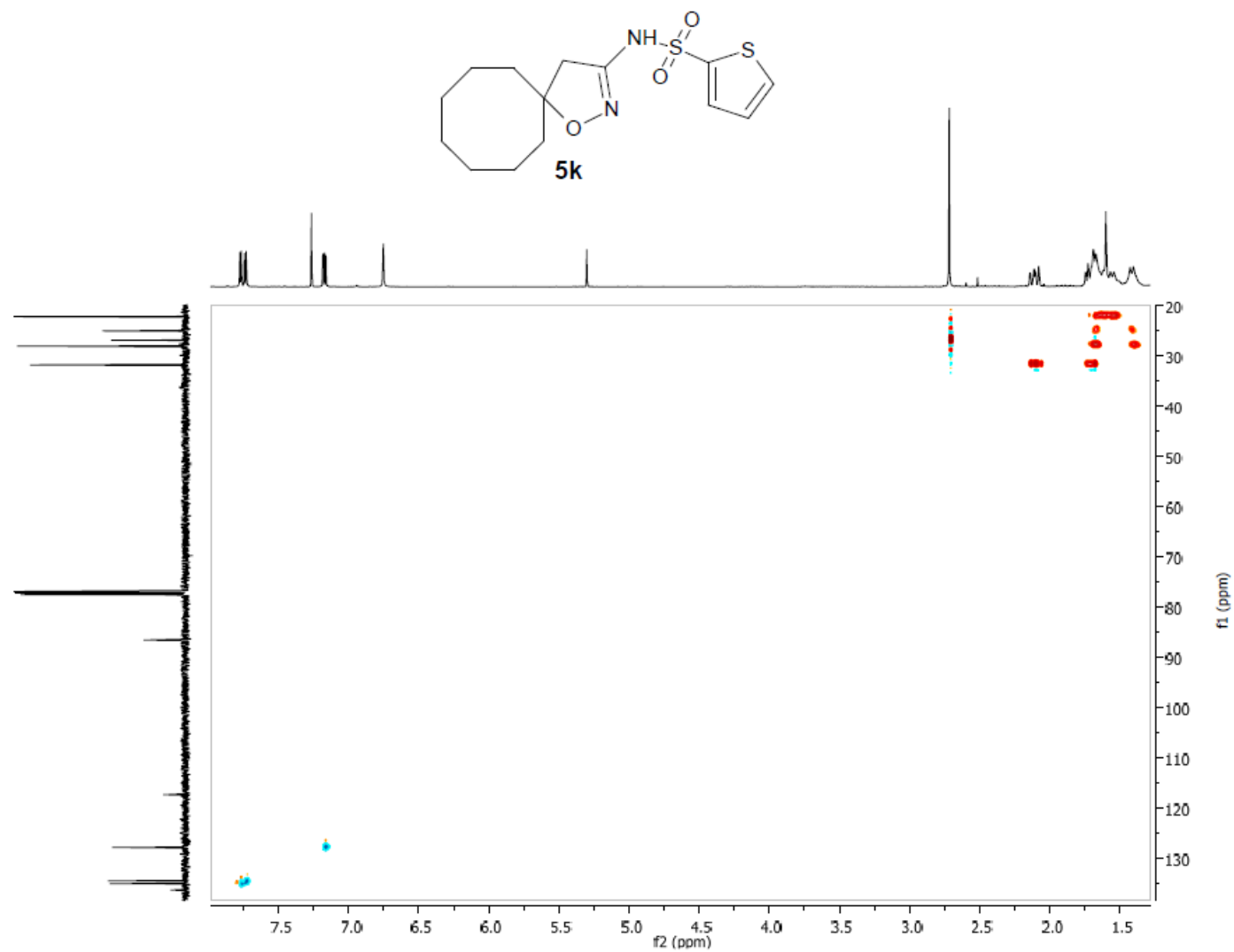
^1H NMR (CDCl_3) spectrum of compound **5k**



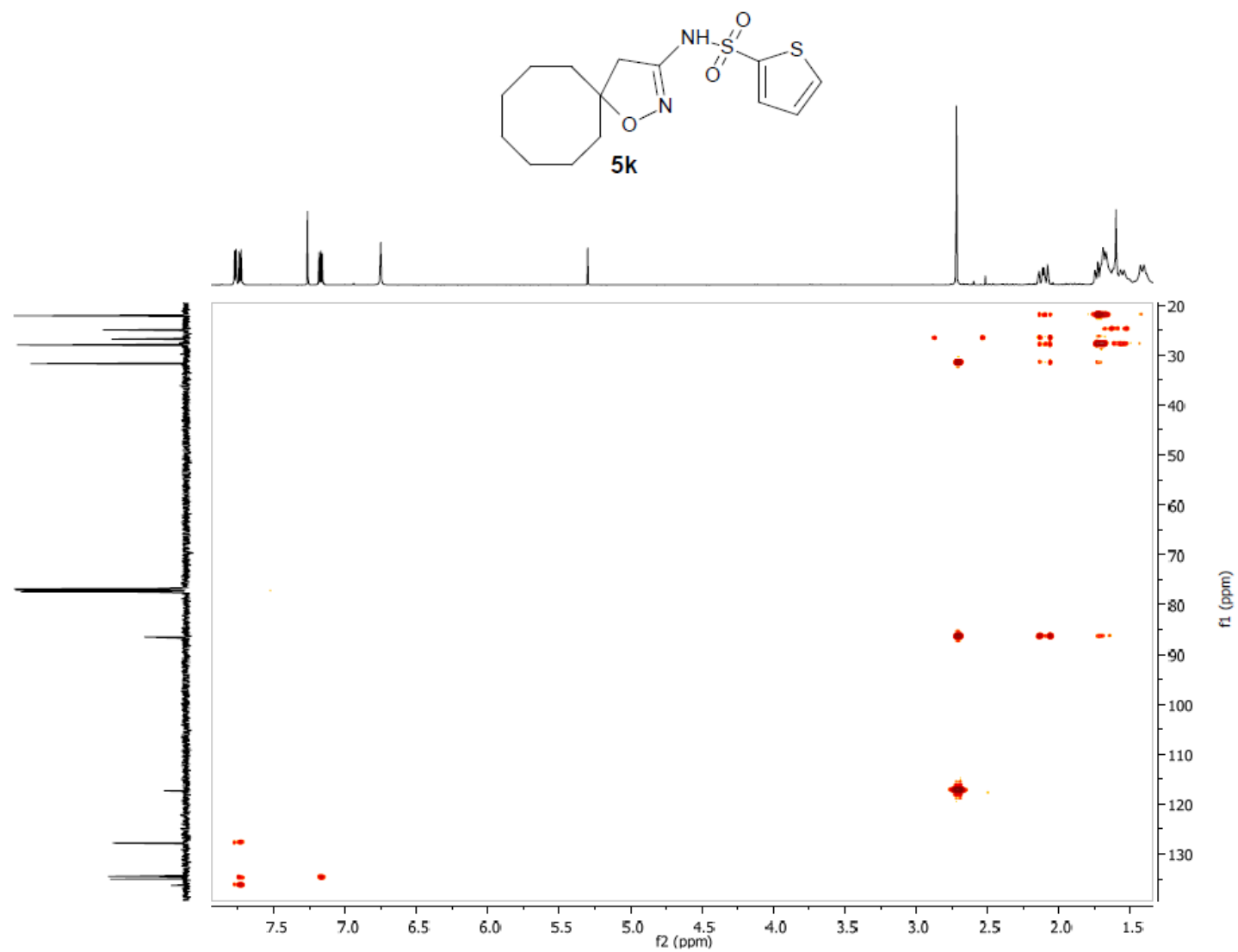
^{13}C NMR (CDCl_3) spectrum of compound **5k**



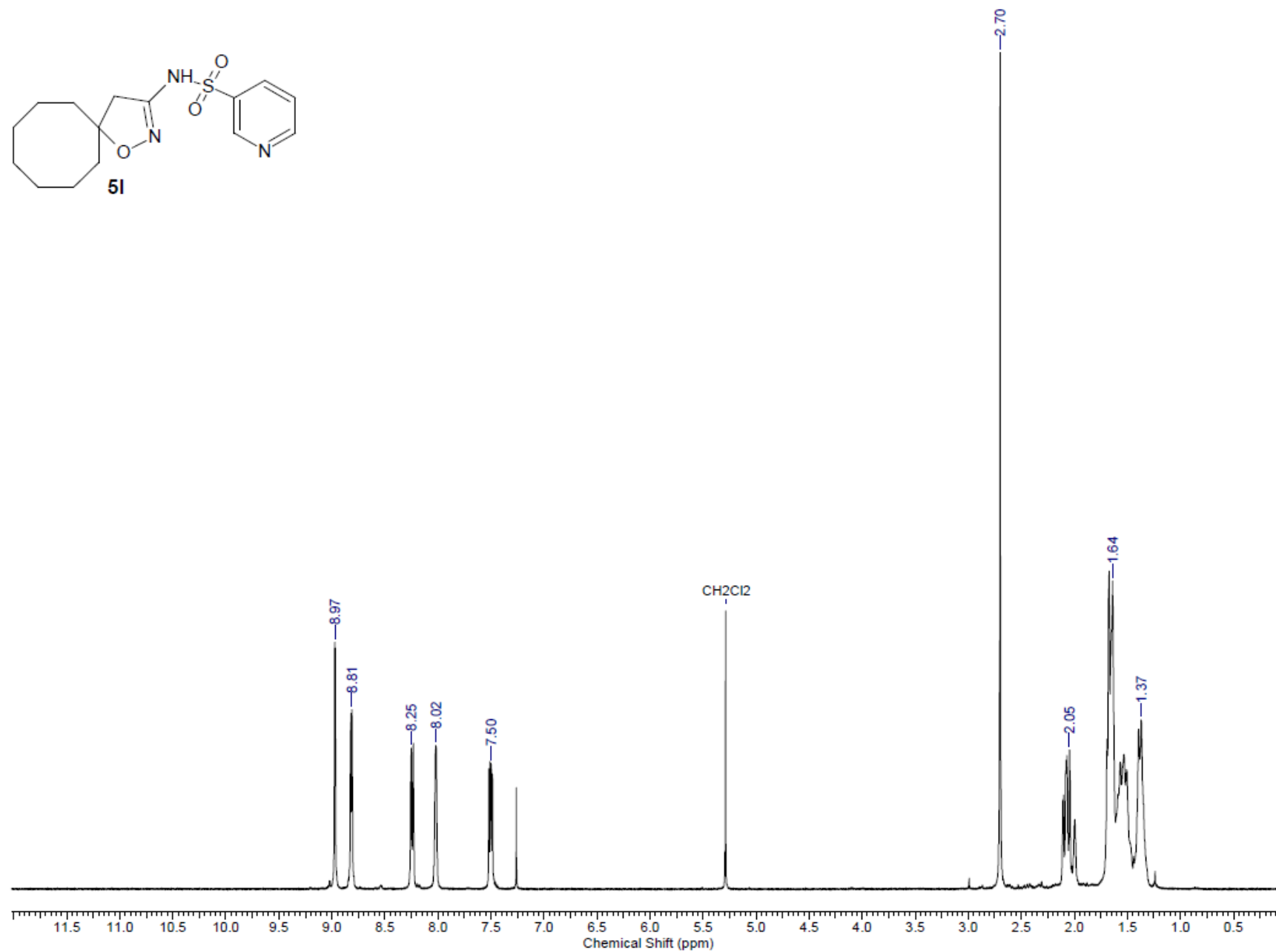
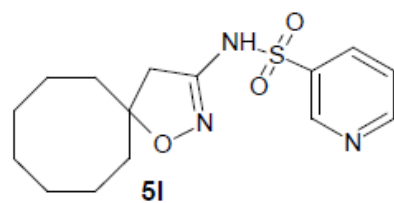
HSQC NMR (CDCl₃) spectrum of compound 5k



HMBC NMR (CDCl₃) spectrum of compound 5k



^1H NMR (CDCl_3) spectrum of compound **5l**



^{13}C NMR (CDCl_3) spectrum of compound **51**

