

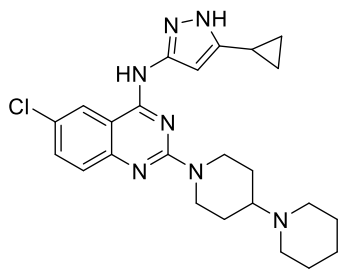
Discovery of 2-(4-Substituted-piperidin/piperazine-1-yl)-N-(5-cyclopropyl-1H-pyrazol-3-yl)-Quinazoline-2,4-Diamines as PAK4 Inhibitors that Showed Potent A549 Cell Proliferation, Migration, and Invasion Inhibition

Tianxiao Wu, Yu Pang, Jing Guo, Wenbo Yin, Mingyue Zhu, Chenzhou Hao, Kai Wang, Jian Wang, Dongmei Zhao*, Maosheng Cheng

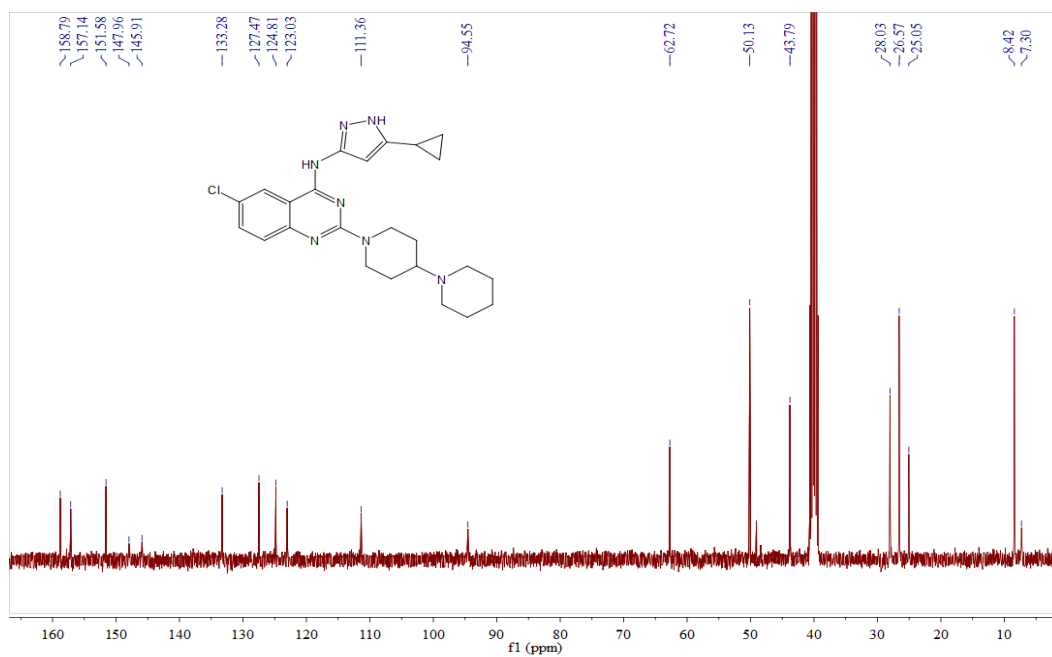
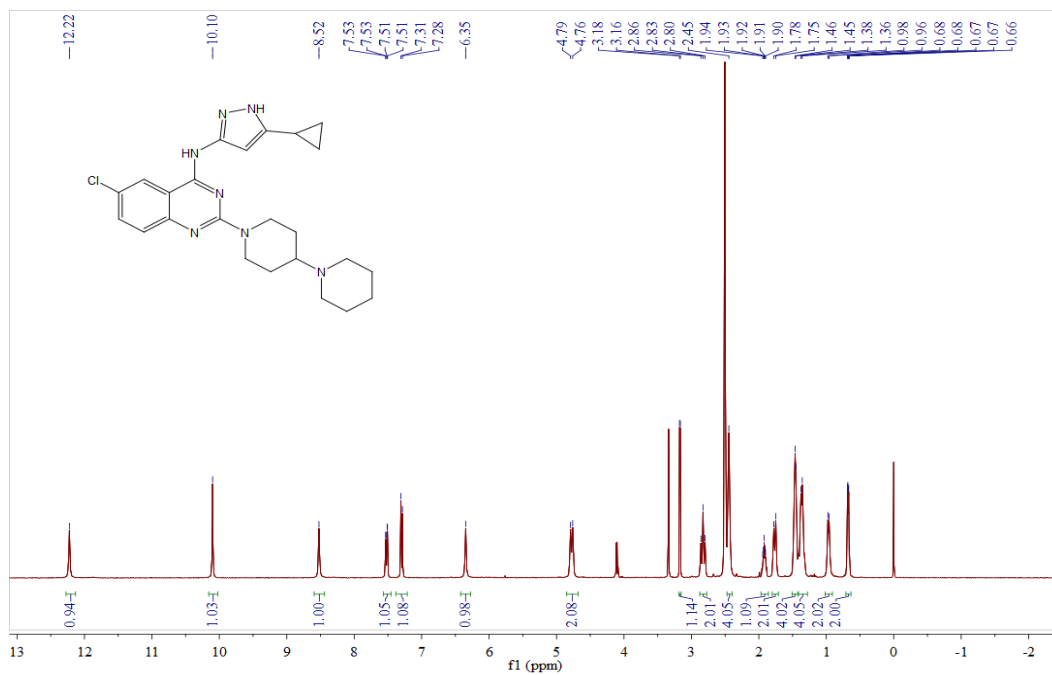
Key Laboratory of Structure-Based Drug Design & Discovery of Ministry of Education, Shenyang Pharmaceutical University, Shenyang 110016, China; 15330802221@163.com (T. W.); pangyu038@163.com (Y. P.); guojingspu@163.com (J. G.); yinwenbo1994@163.com (W. Y.); 13555832736@163.com (M. Z.); spuhcz@163.com (C. H.); 15702442831@163.com (K. W.); jianwang@email.com (J. W.); mscheng@263.net (M. C.).

* Correspondence: medchemzhao@163.com; Tel.: +86-24-4352-0219

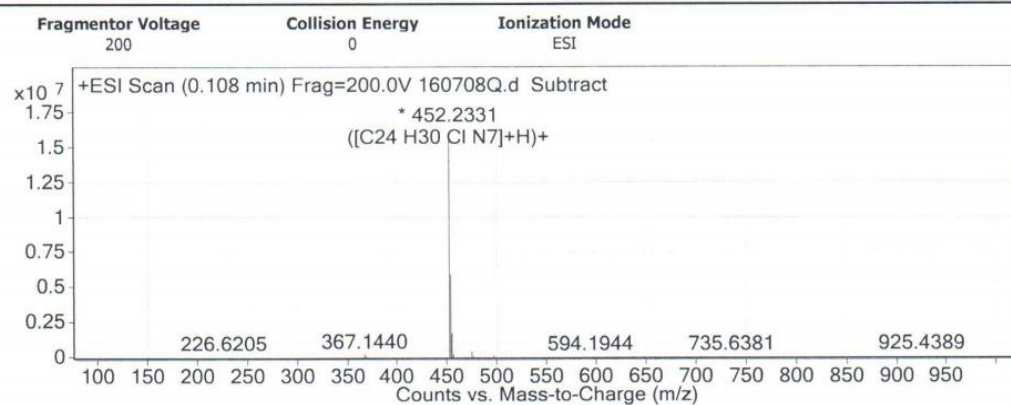
Content: ¹H NMR, ¹³C NMR, HRMS for all target compounds reported in this study.

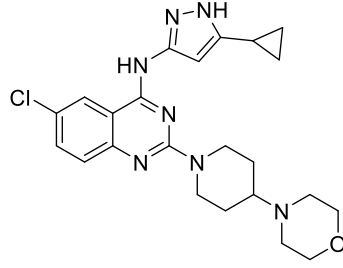


Compound 6a

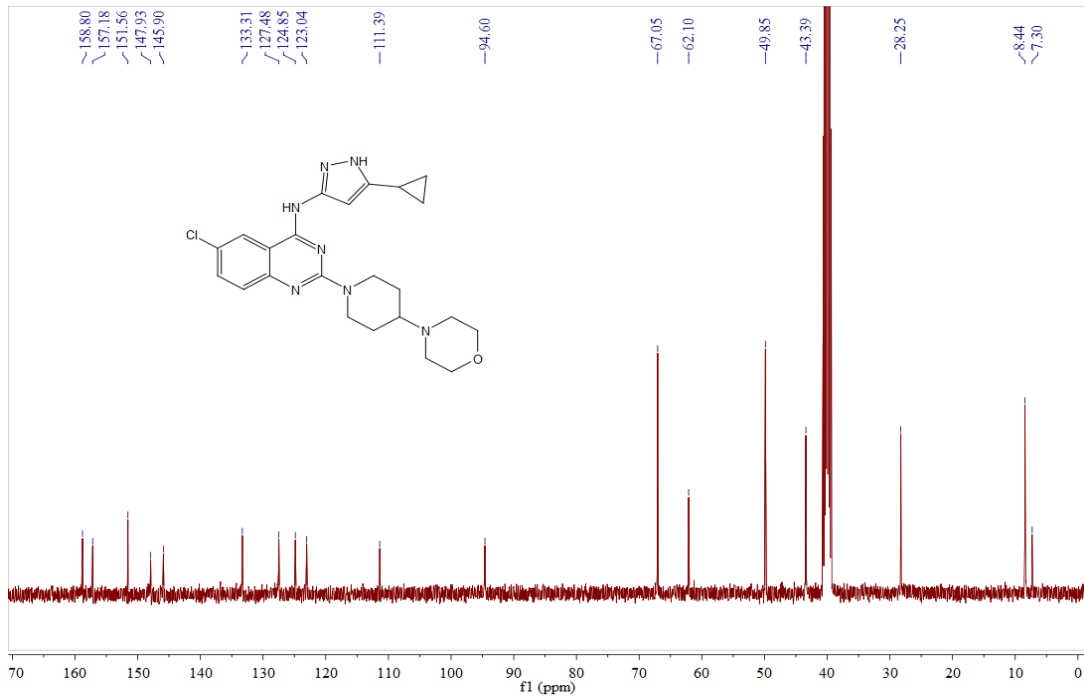
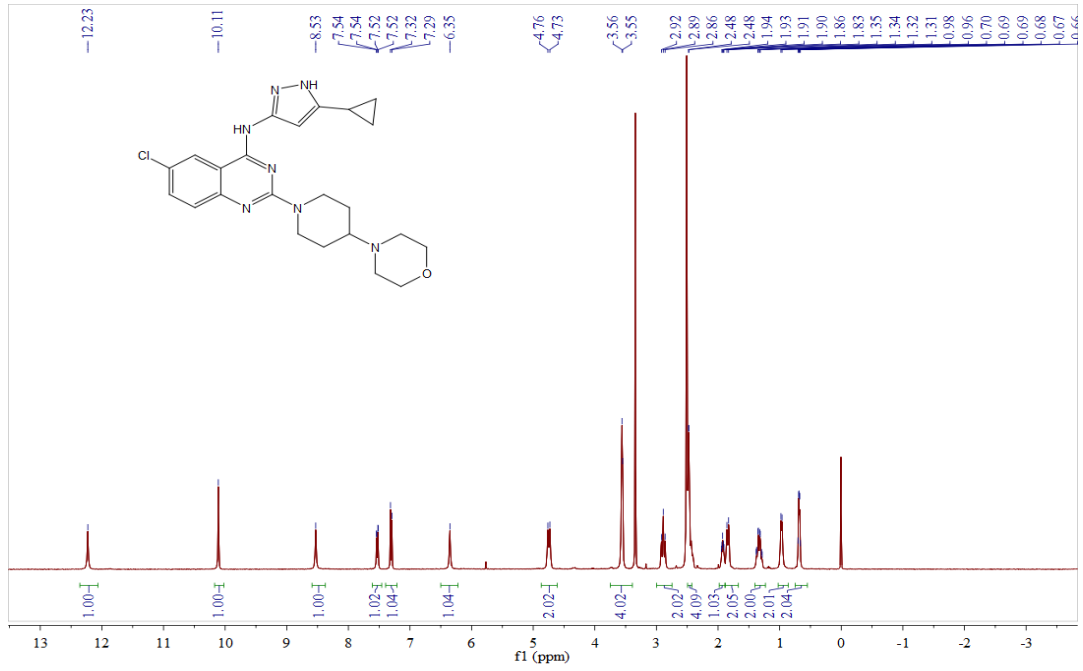


User Spectra

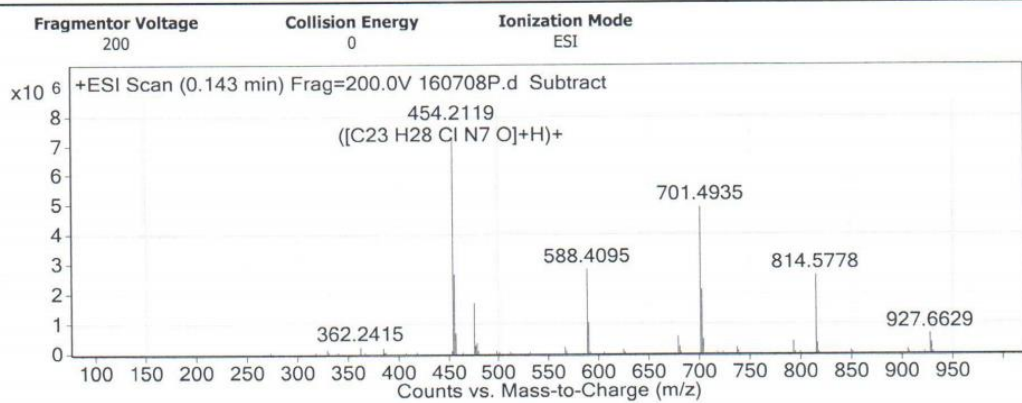


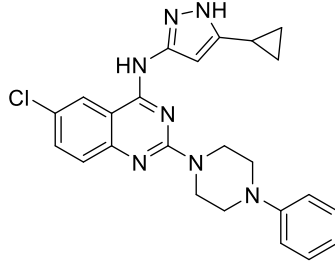


Compound **6b**

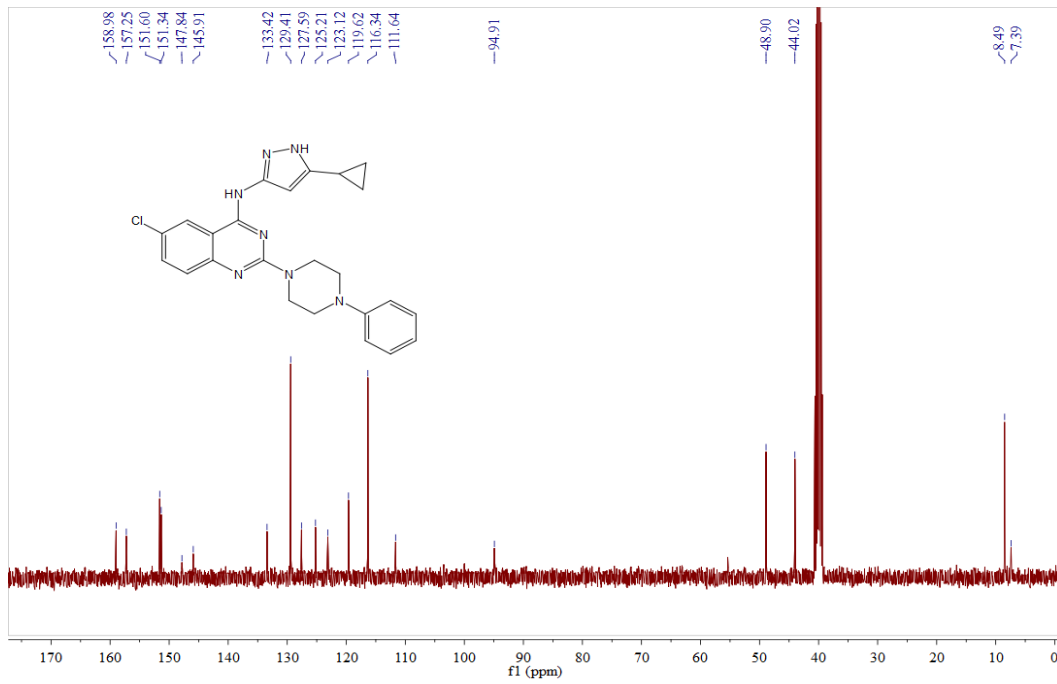
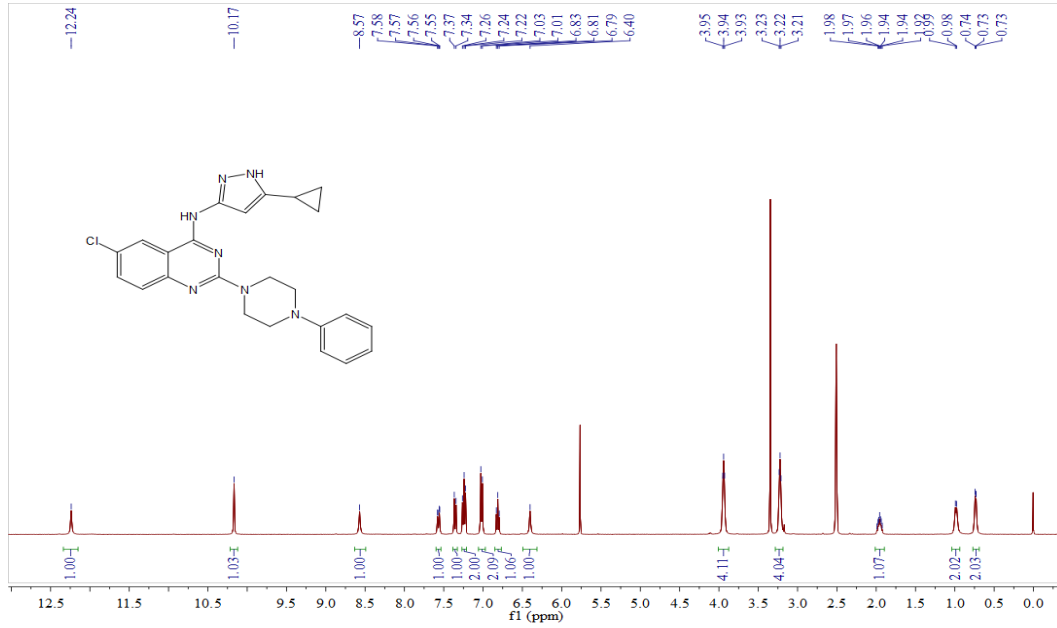


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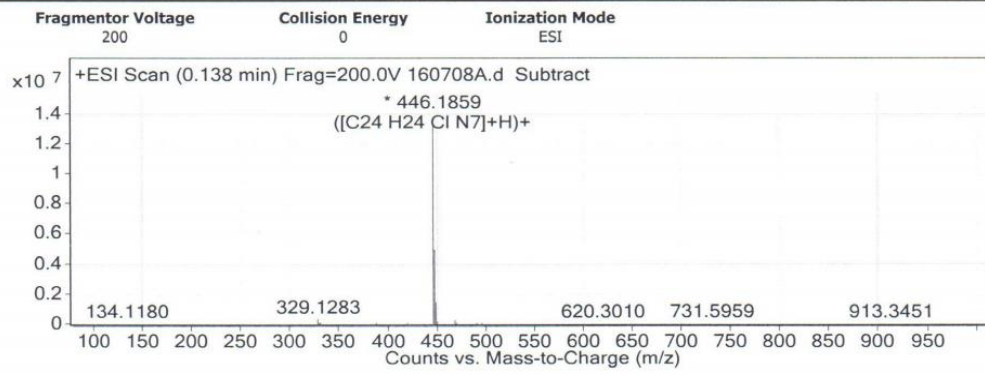


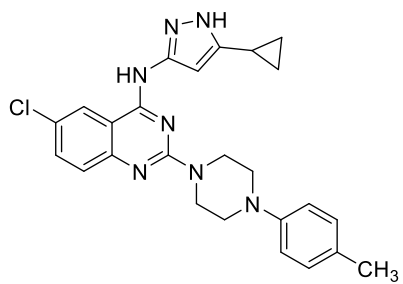


Compound 7a

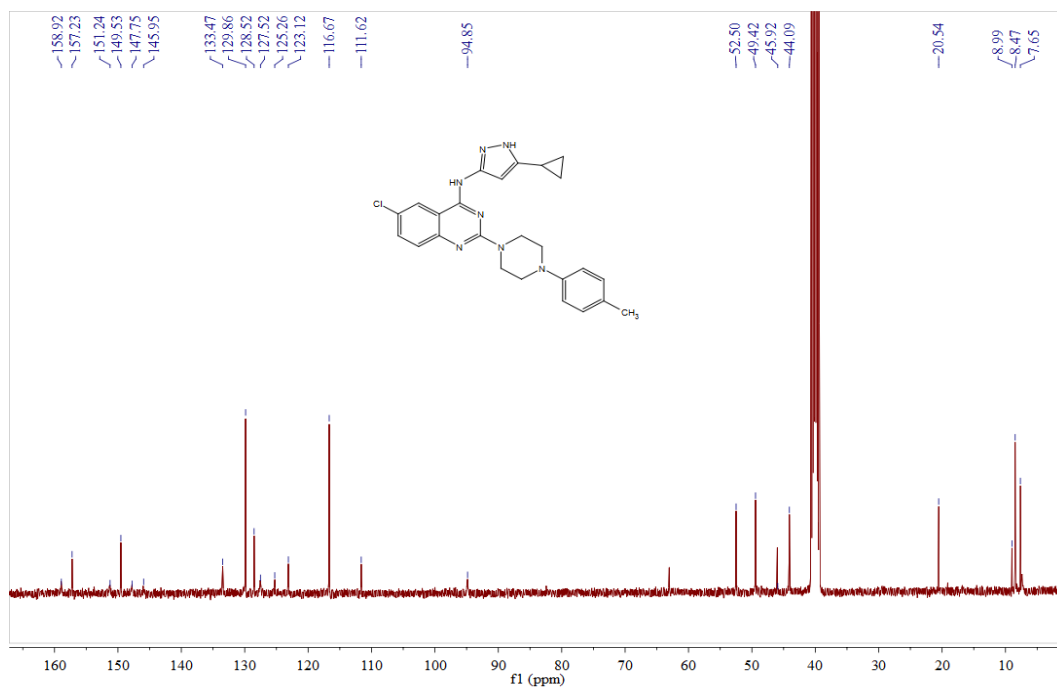
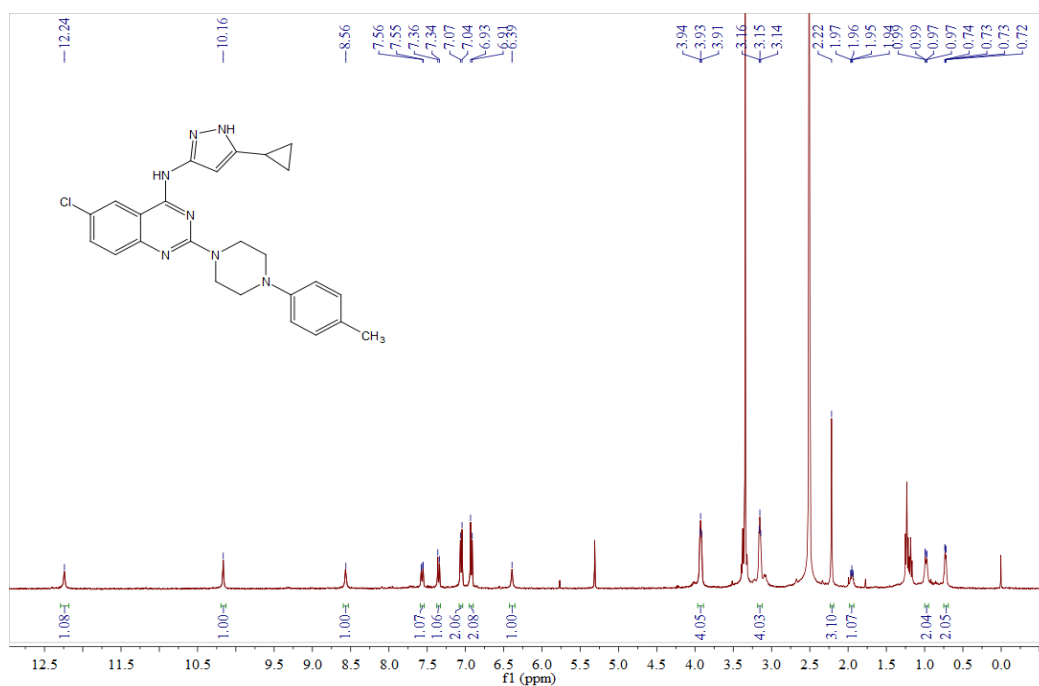


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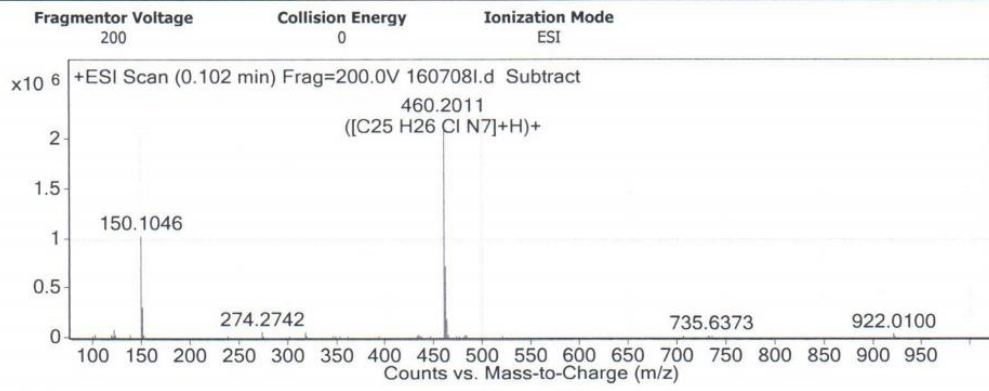


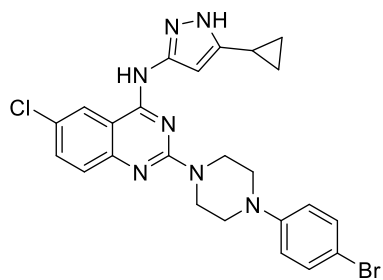


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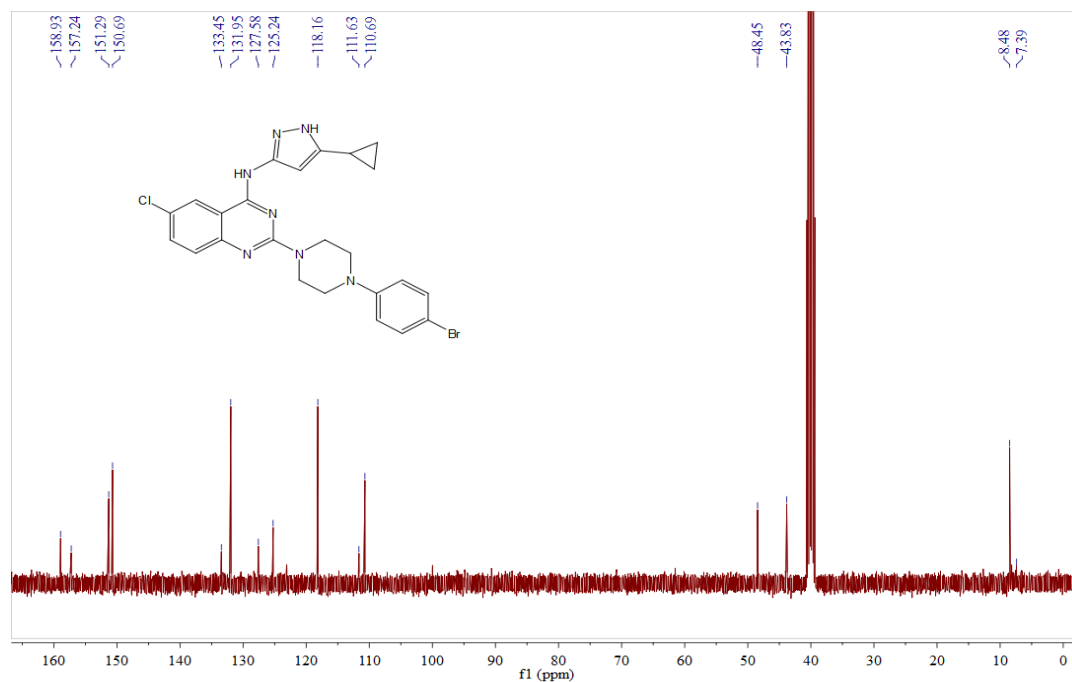
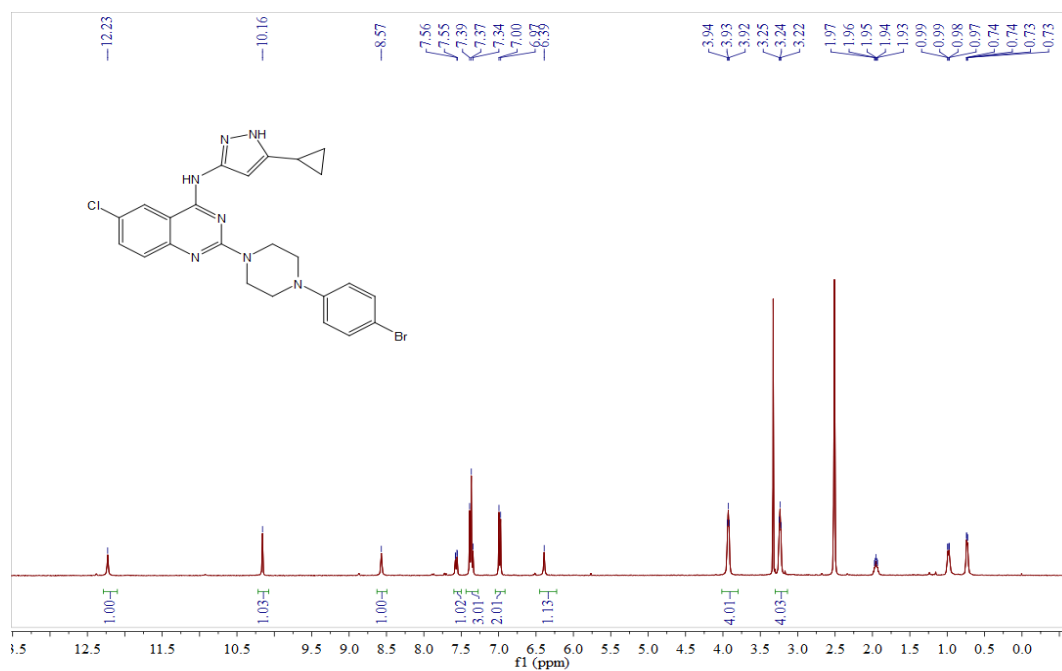


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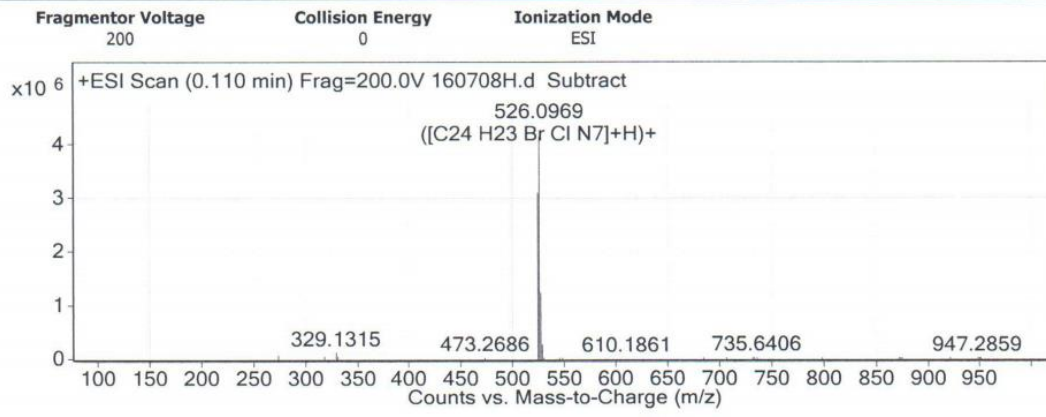


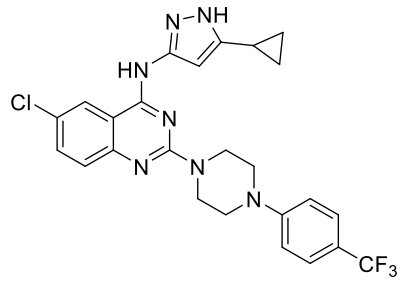


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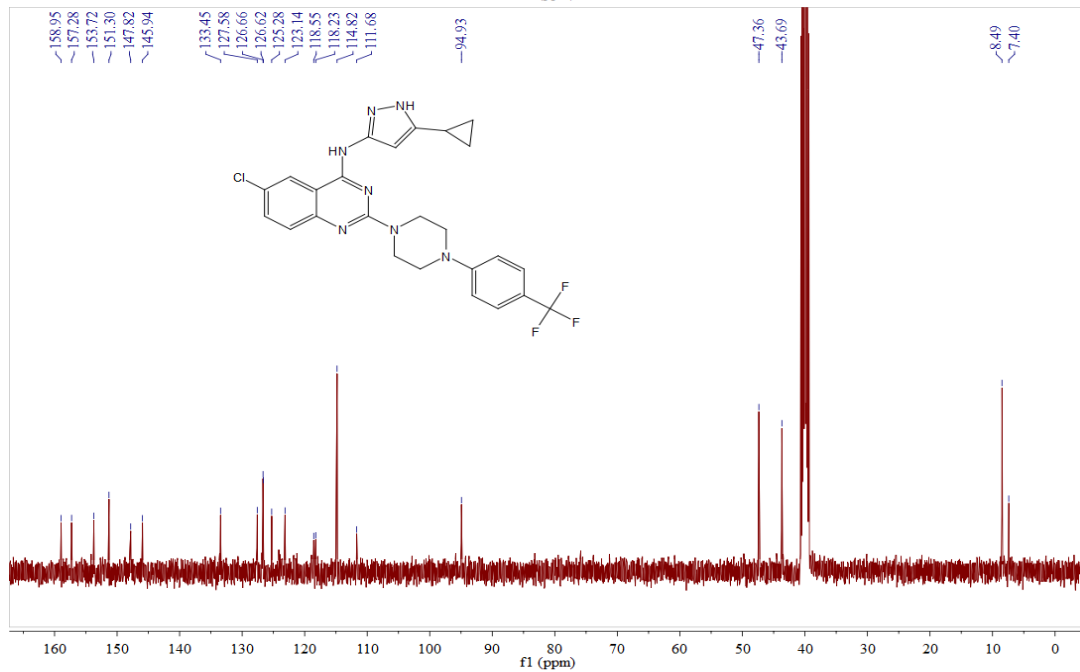
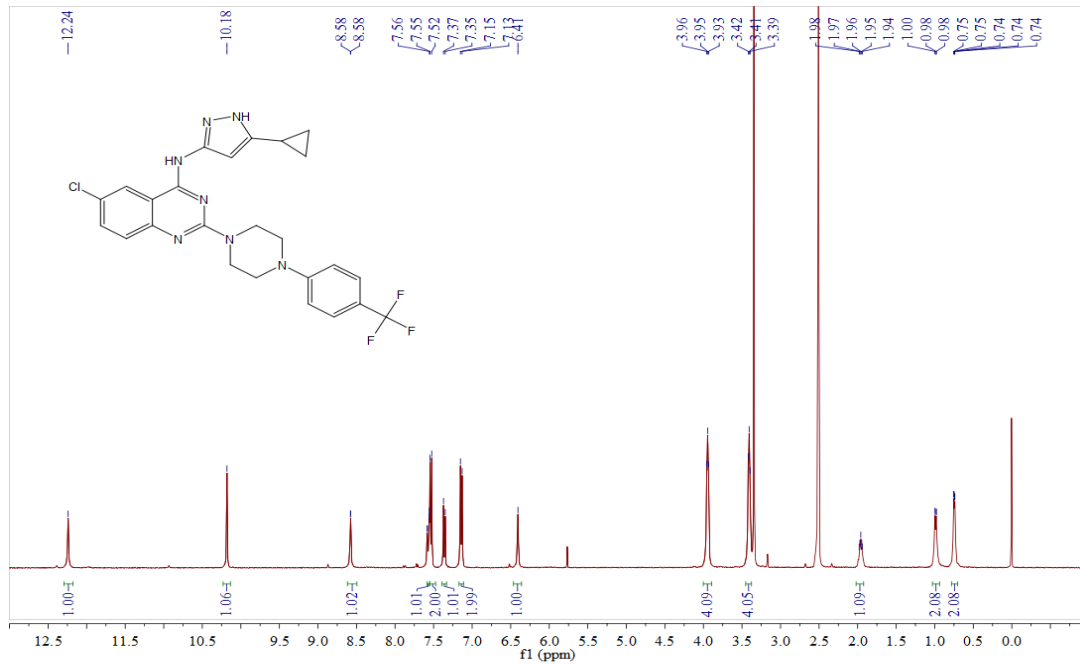


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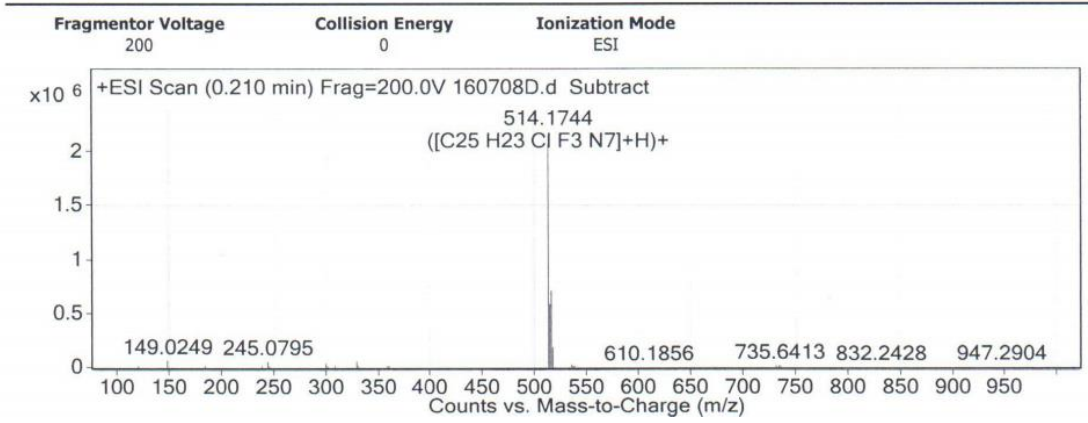


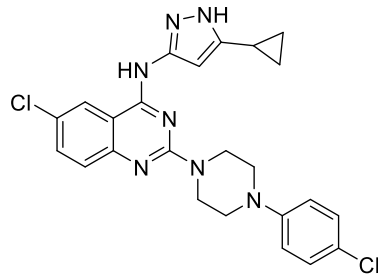


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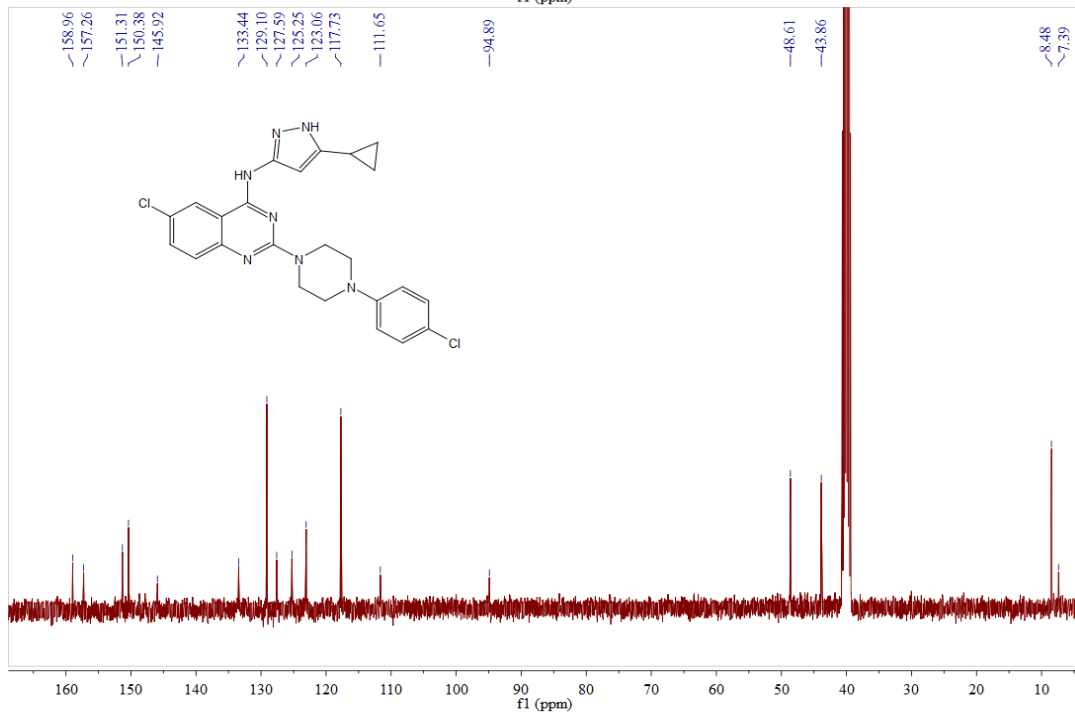
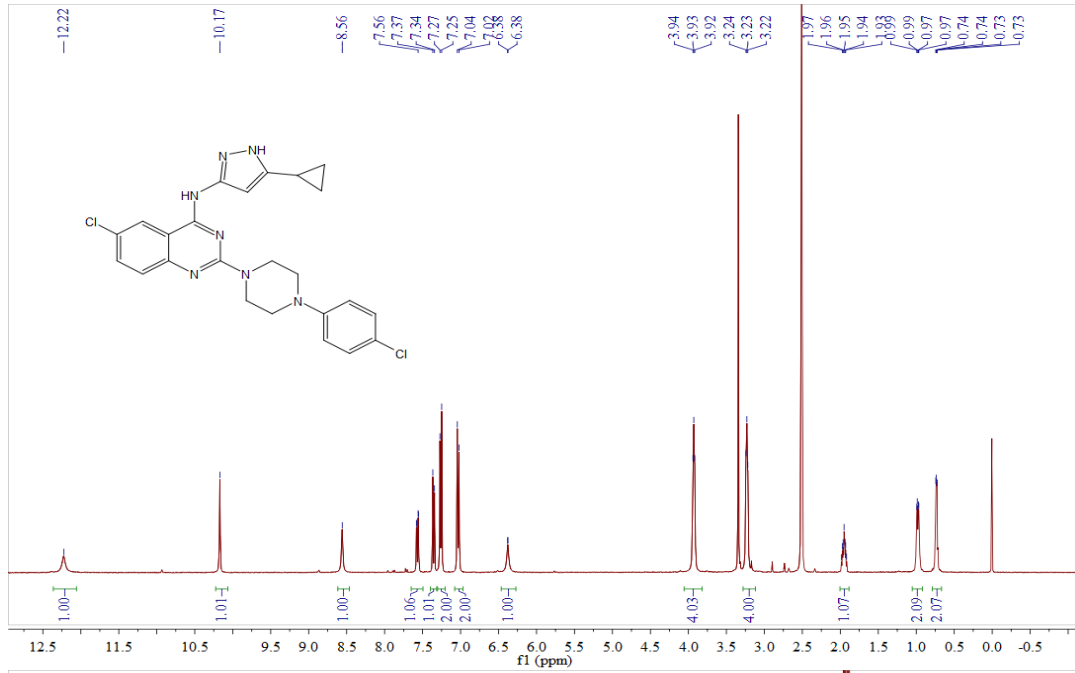


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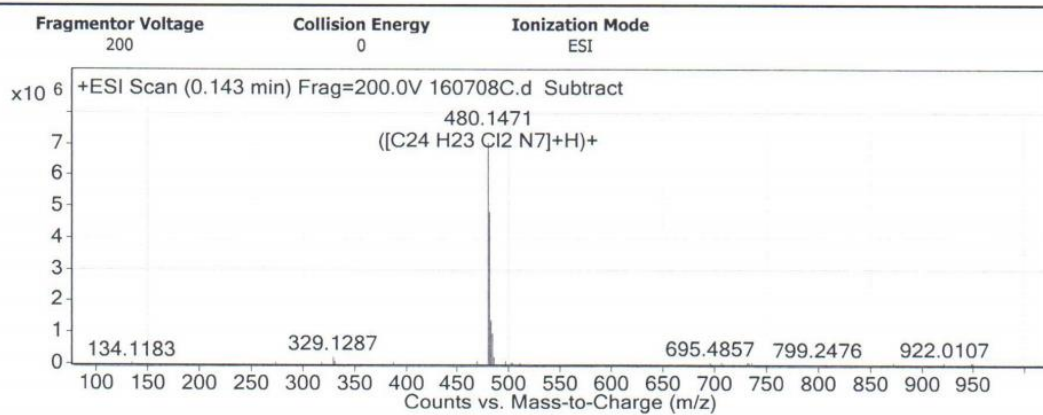


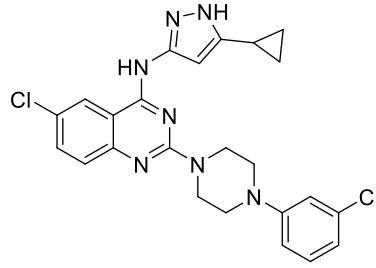


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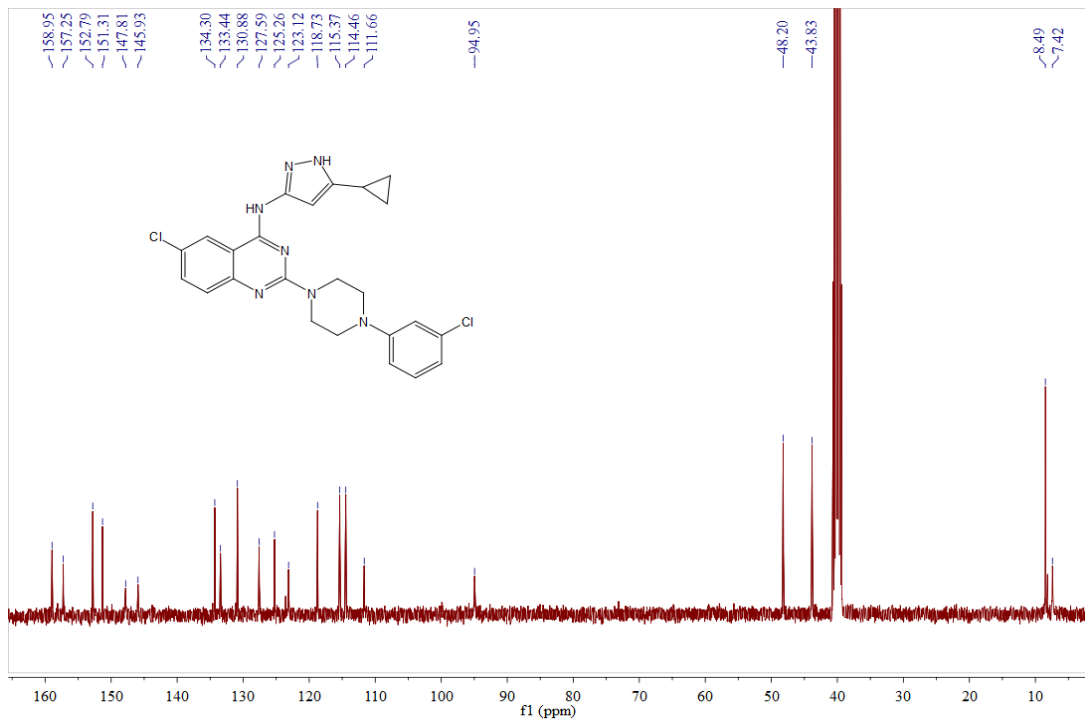
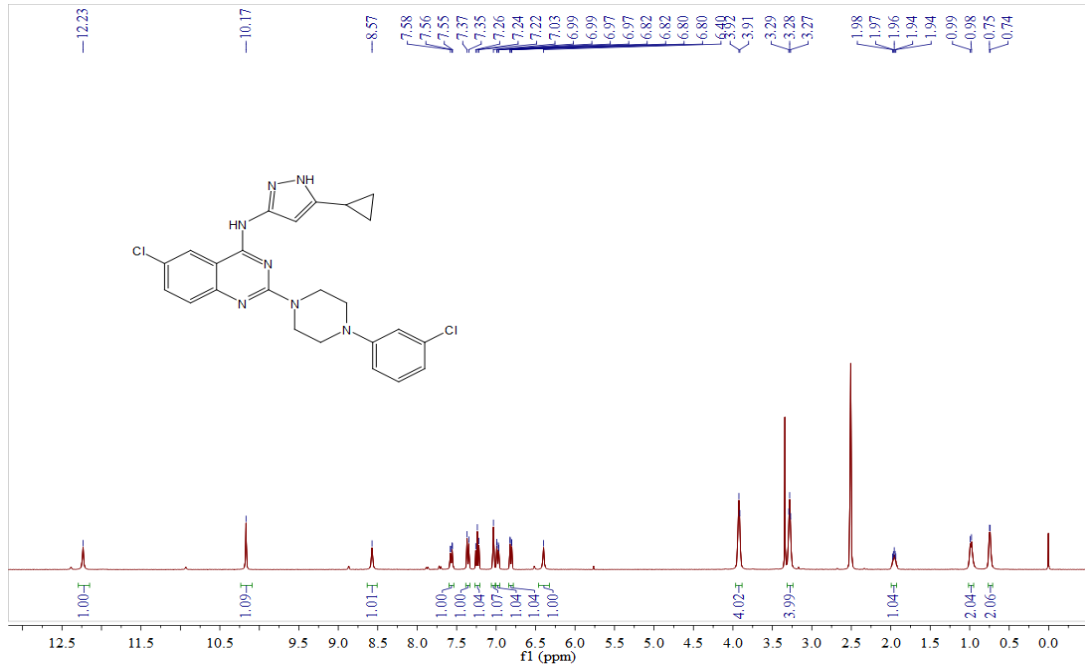


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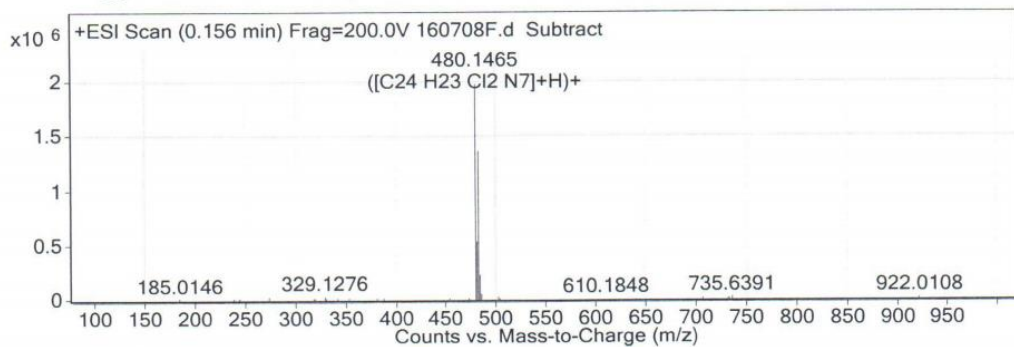


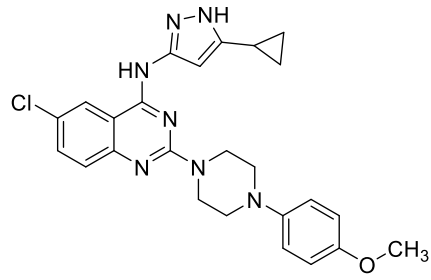
Compound **7f**



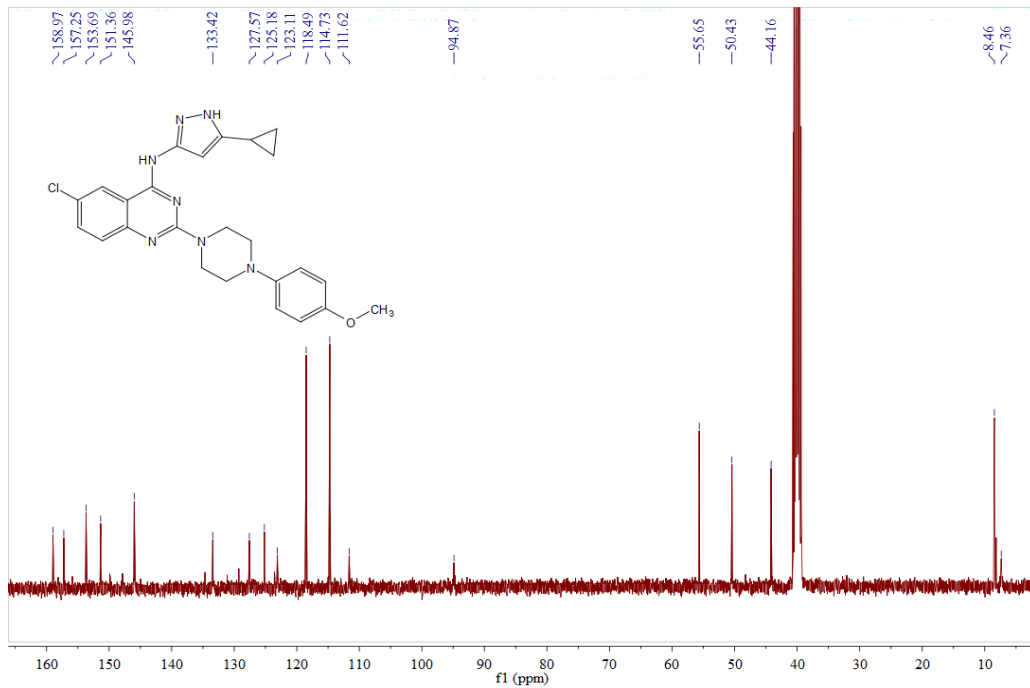
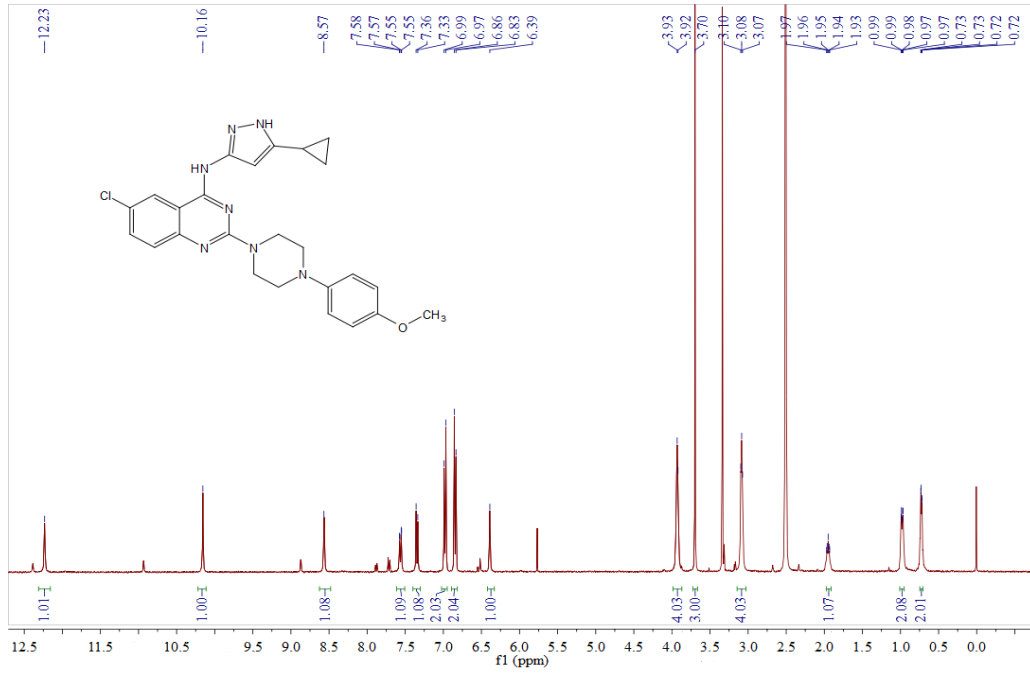
User Spectra

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Collision Energy: 0
Ionization Mode: ESI

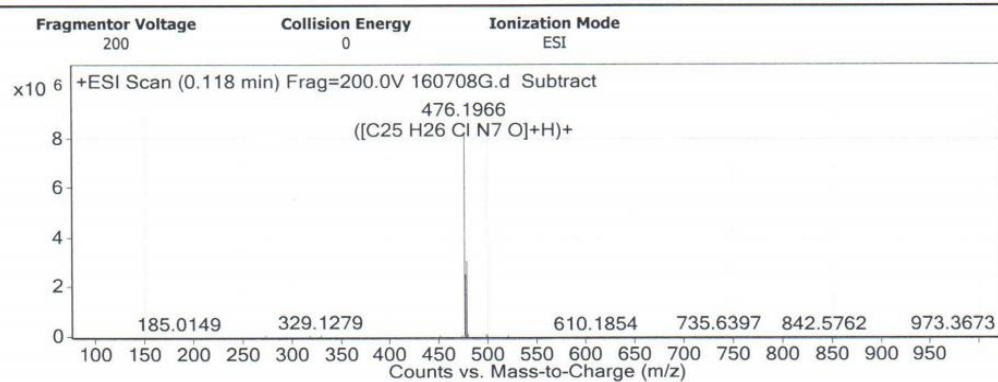


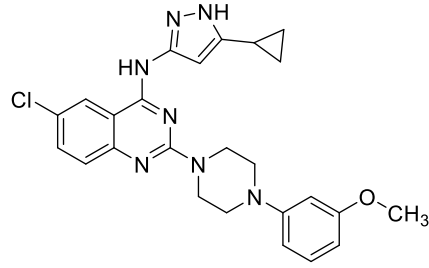


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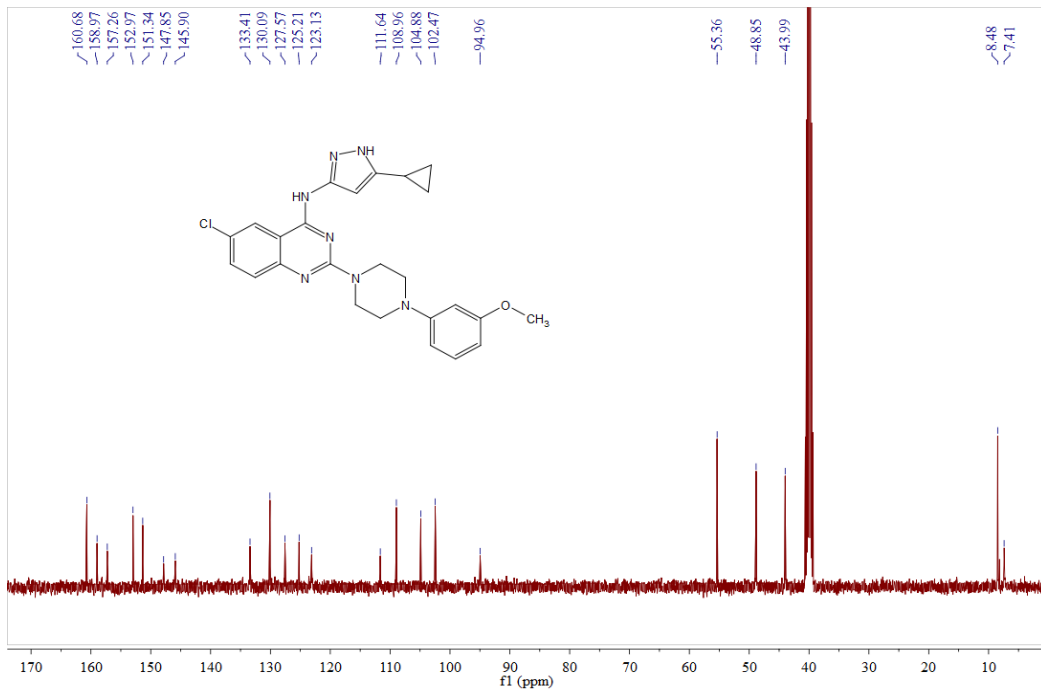
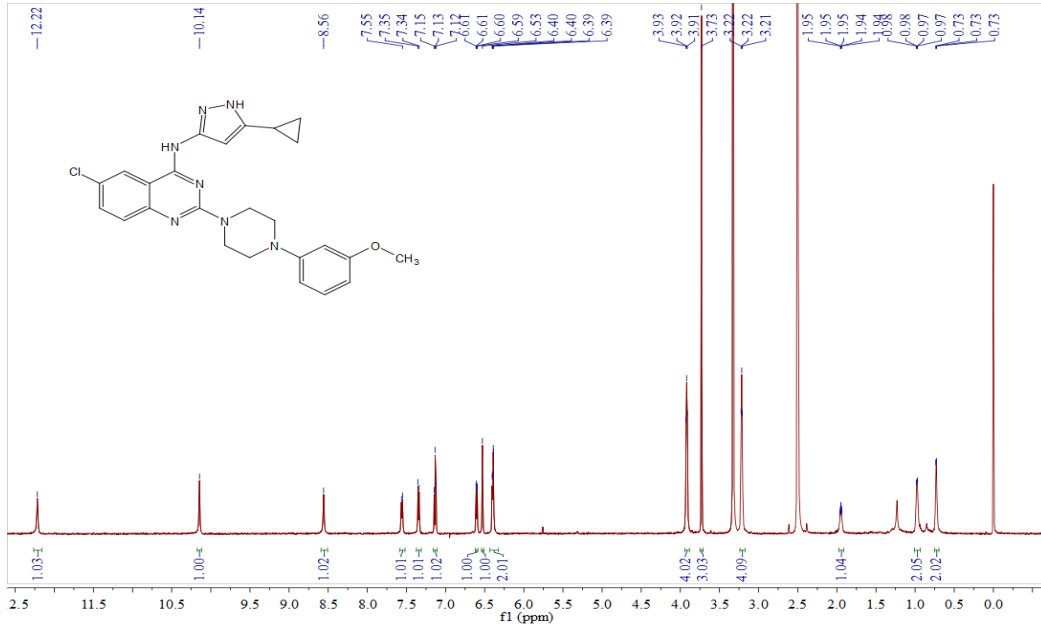


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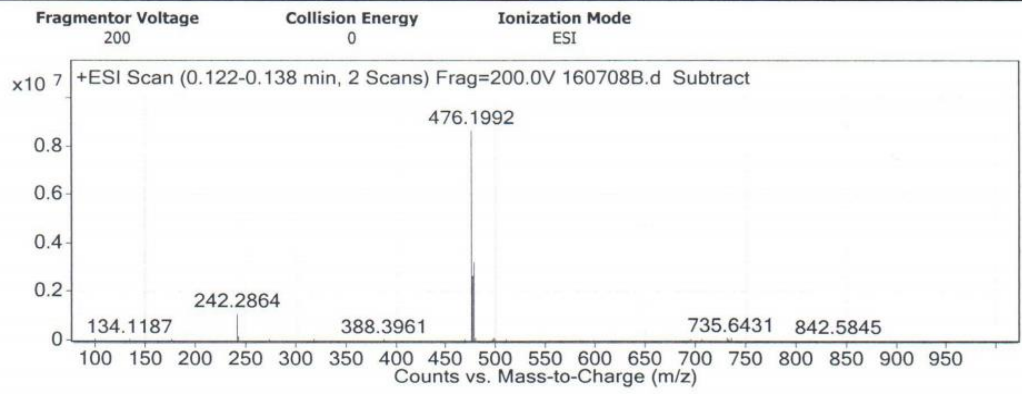


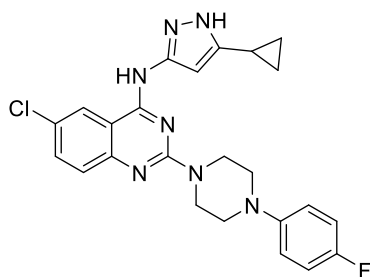


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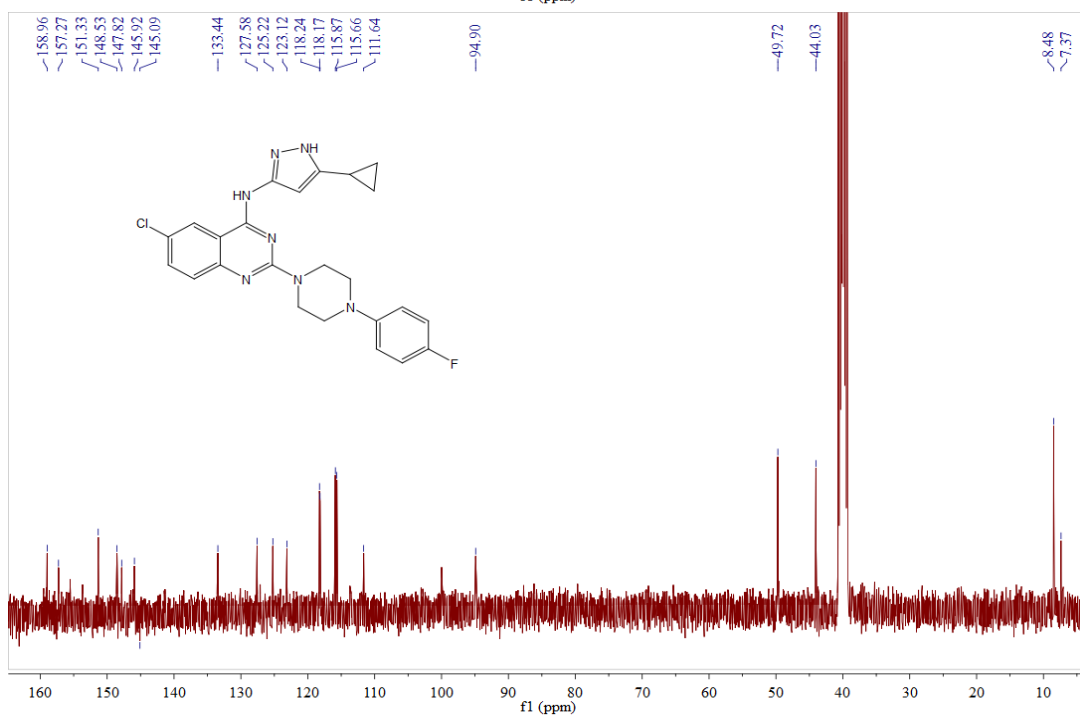
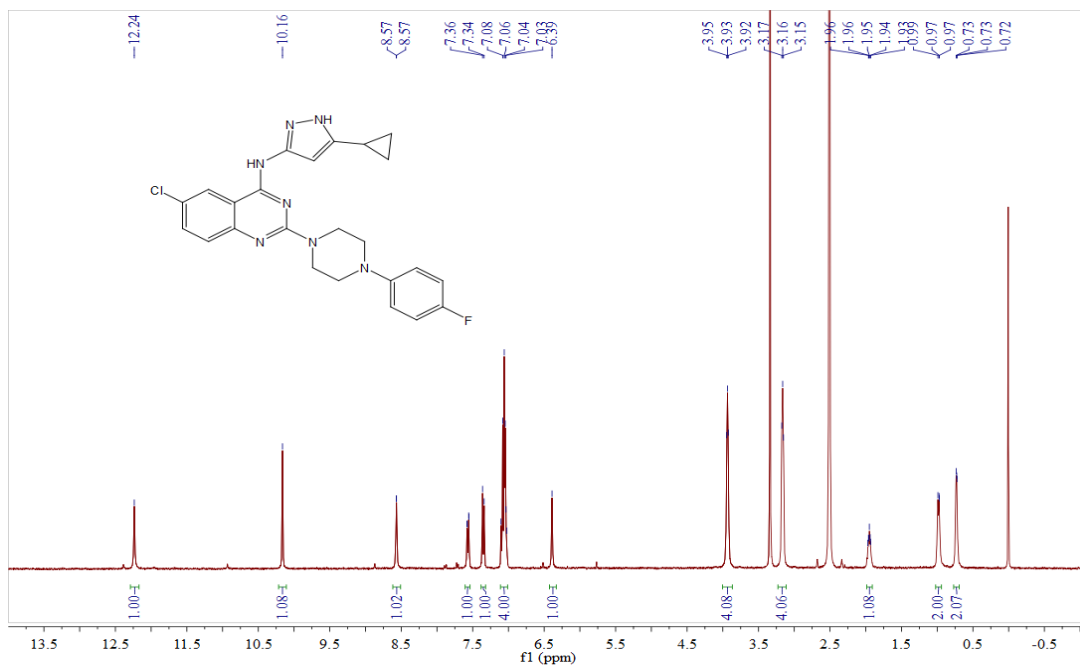


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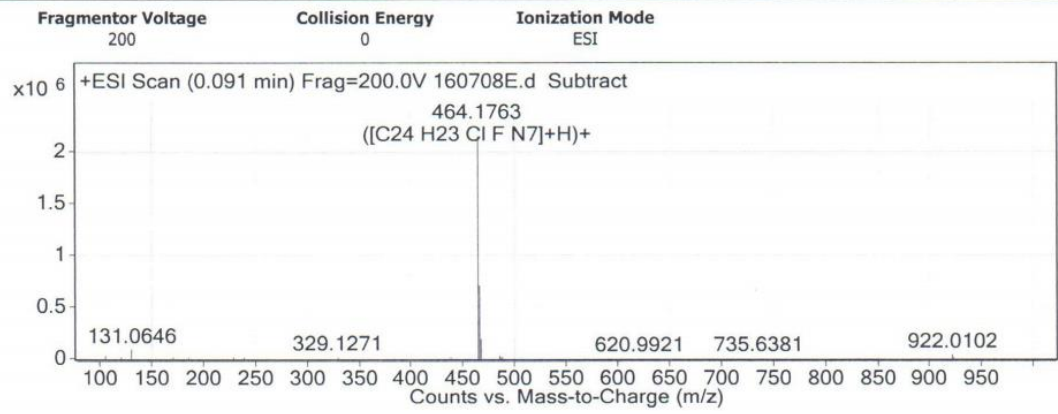


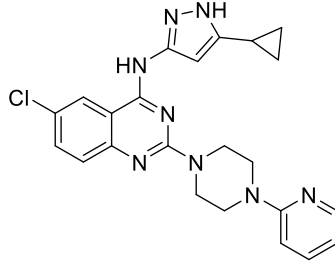


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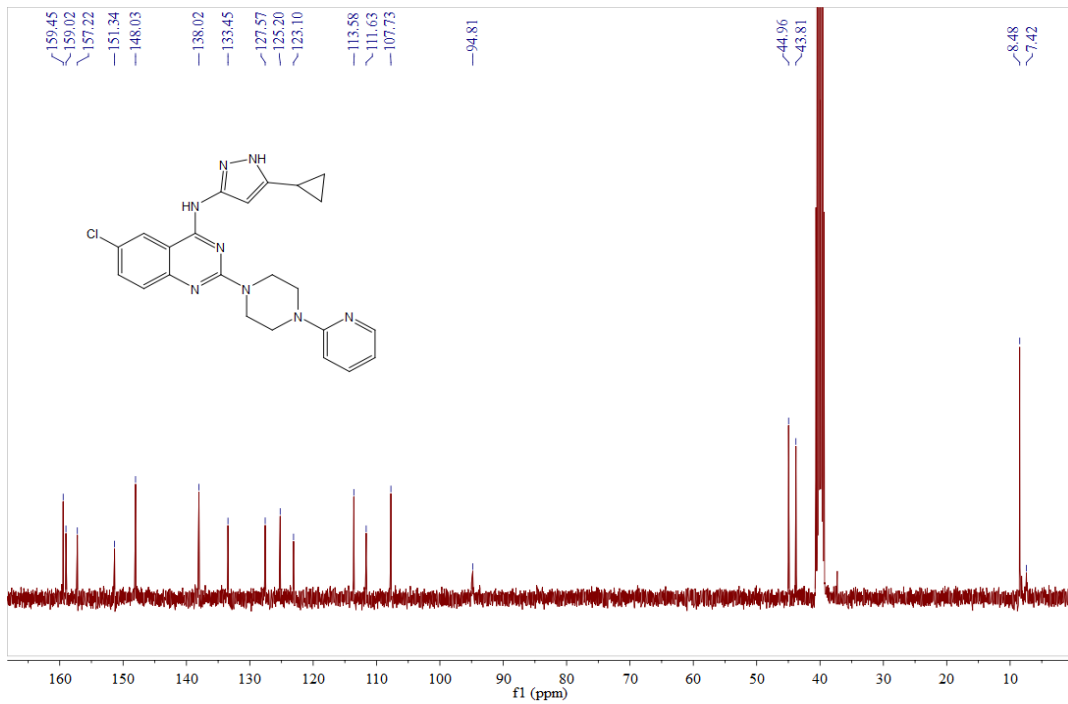
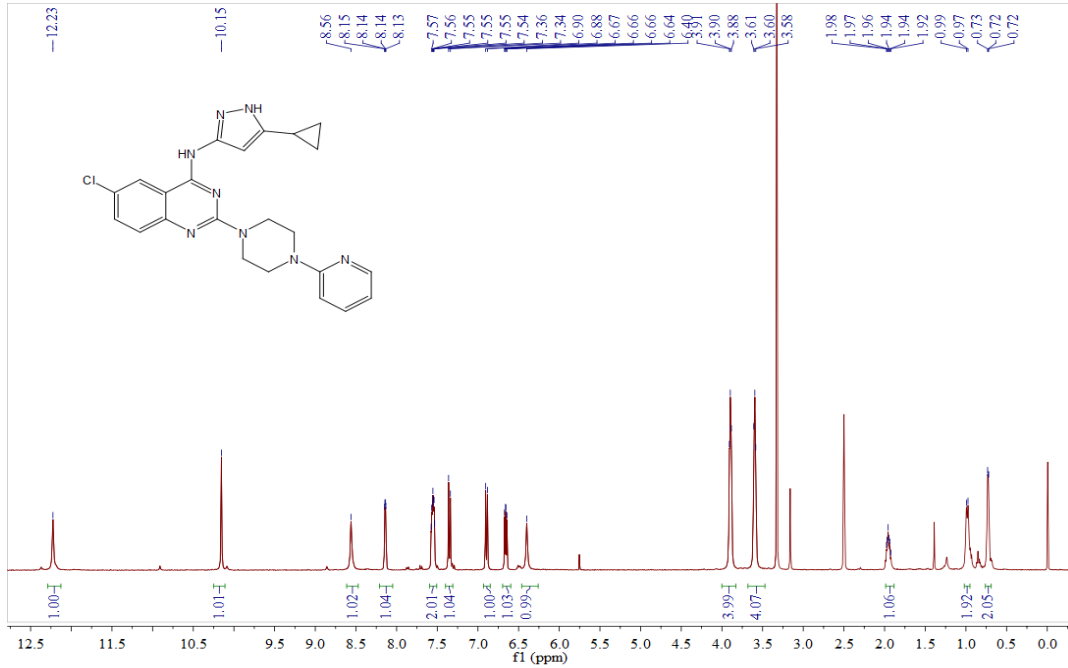


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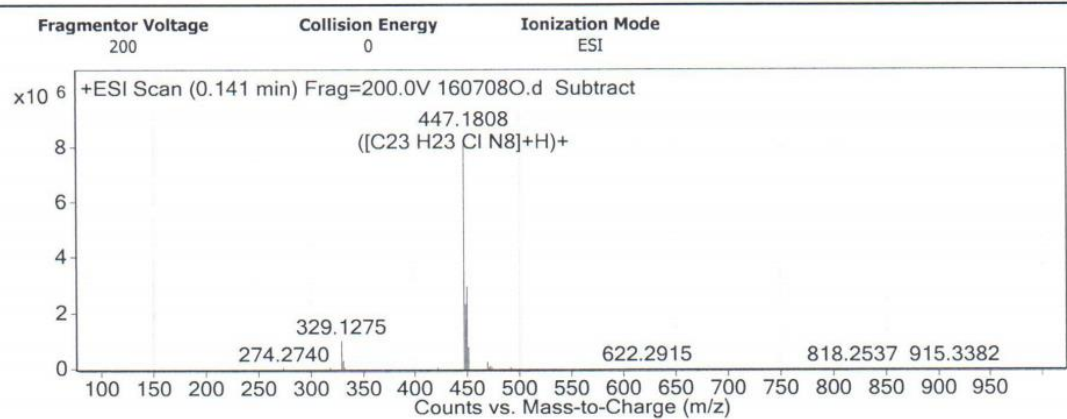


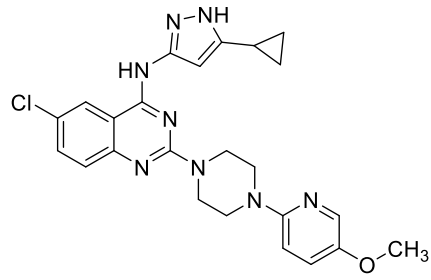


Compound 8a

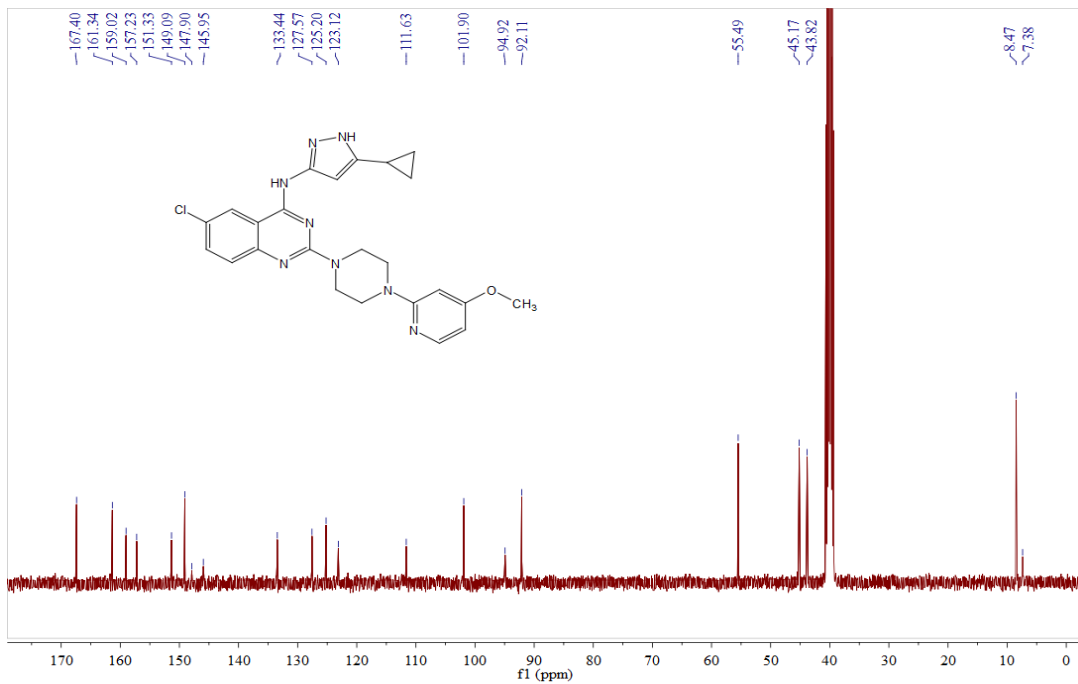
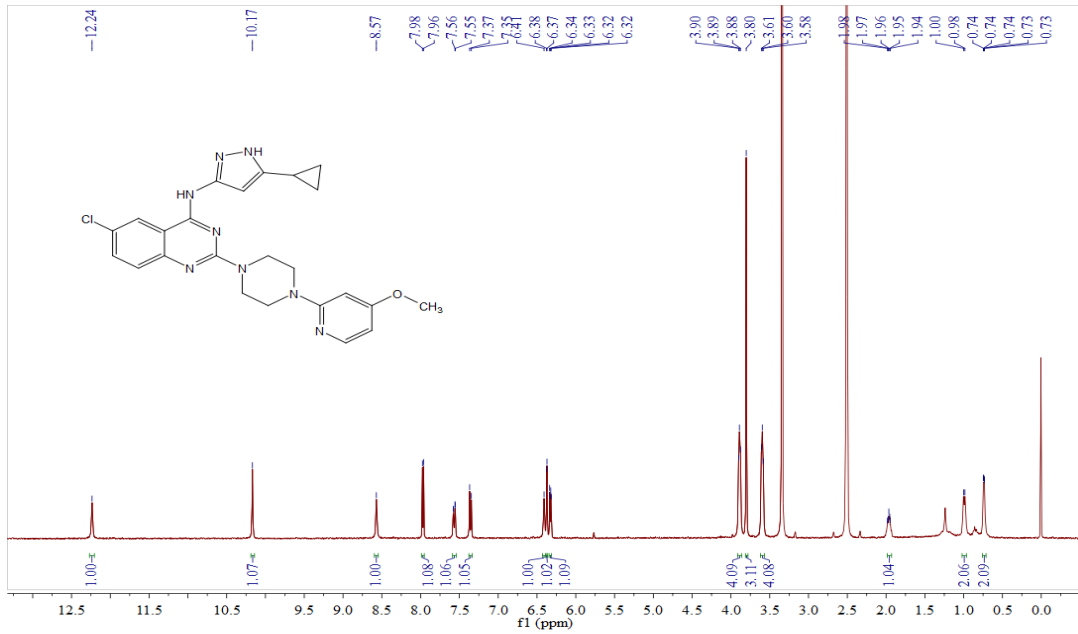


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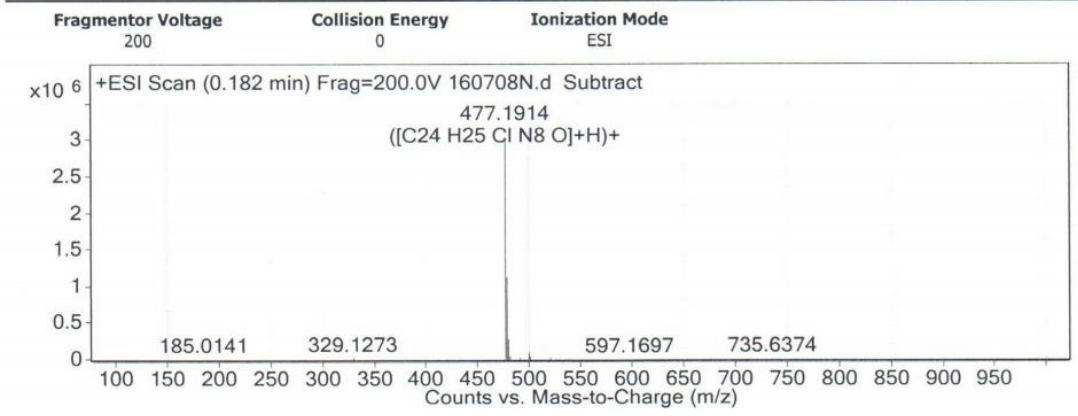


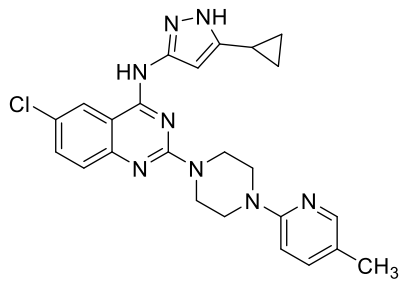


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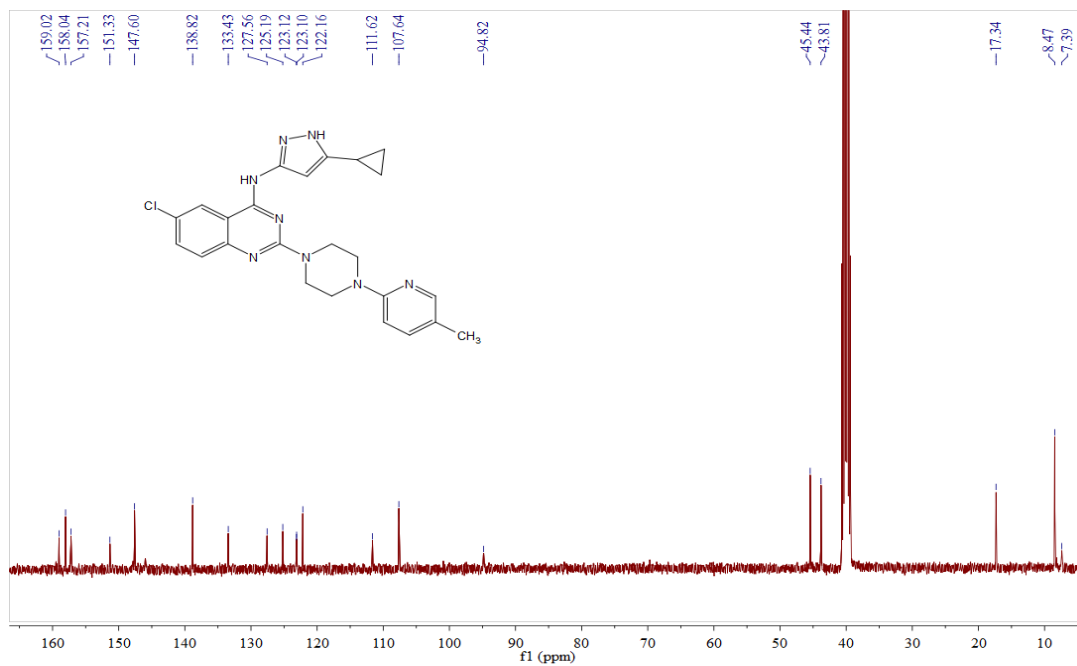
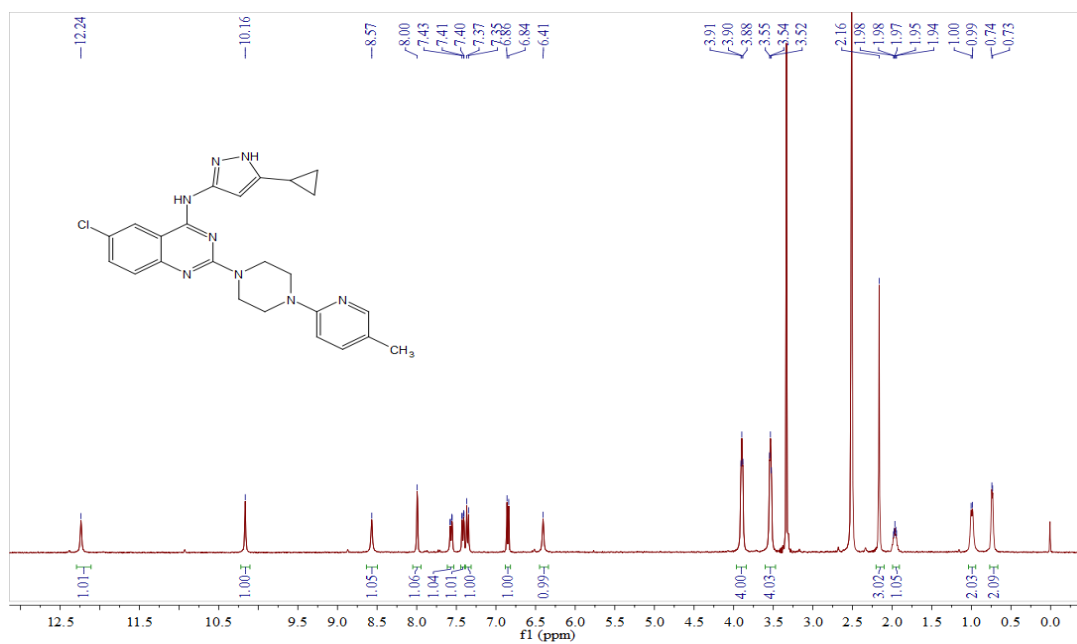


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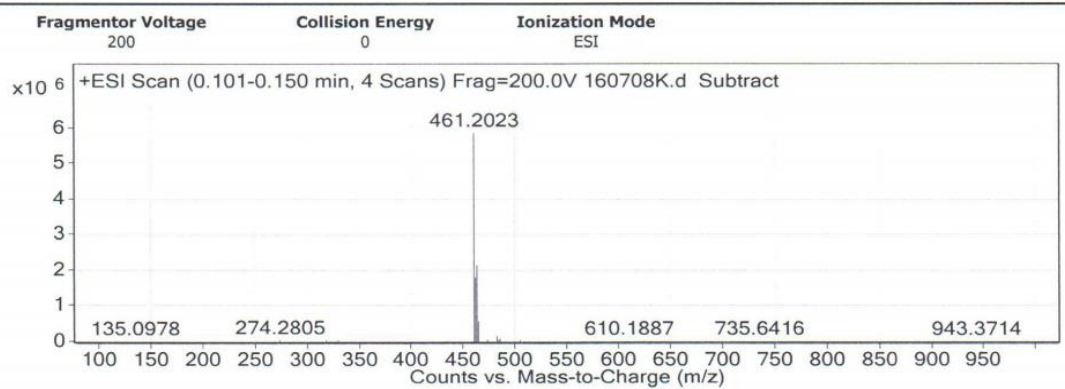


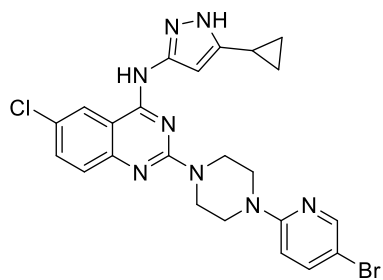


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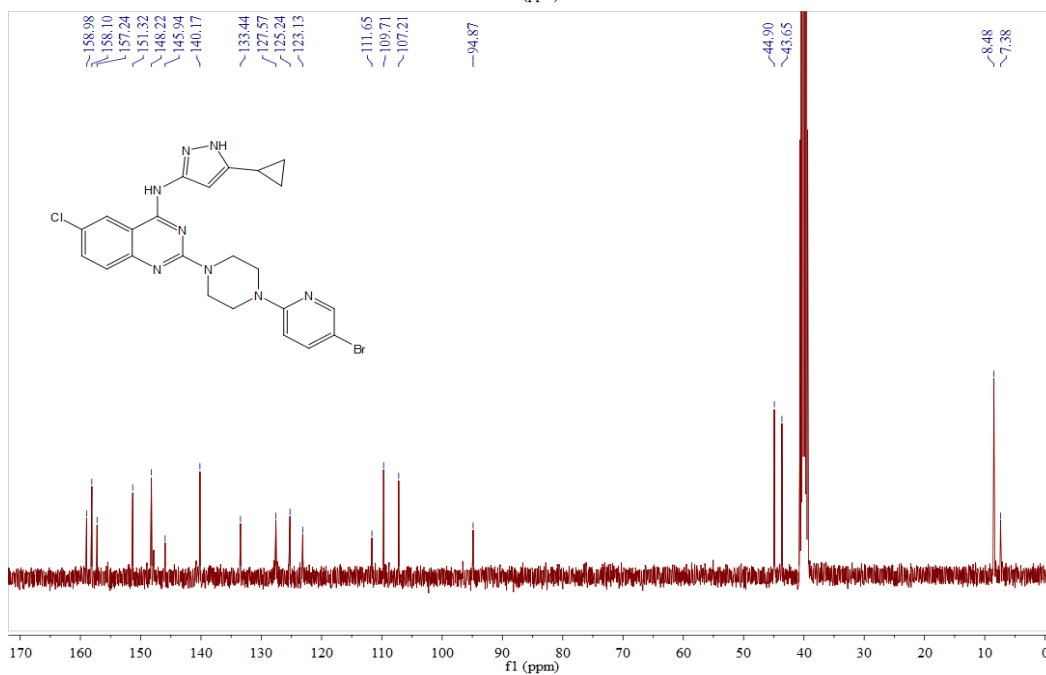
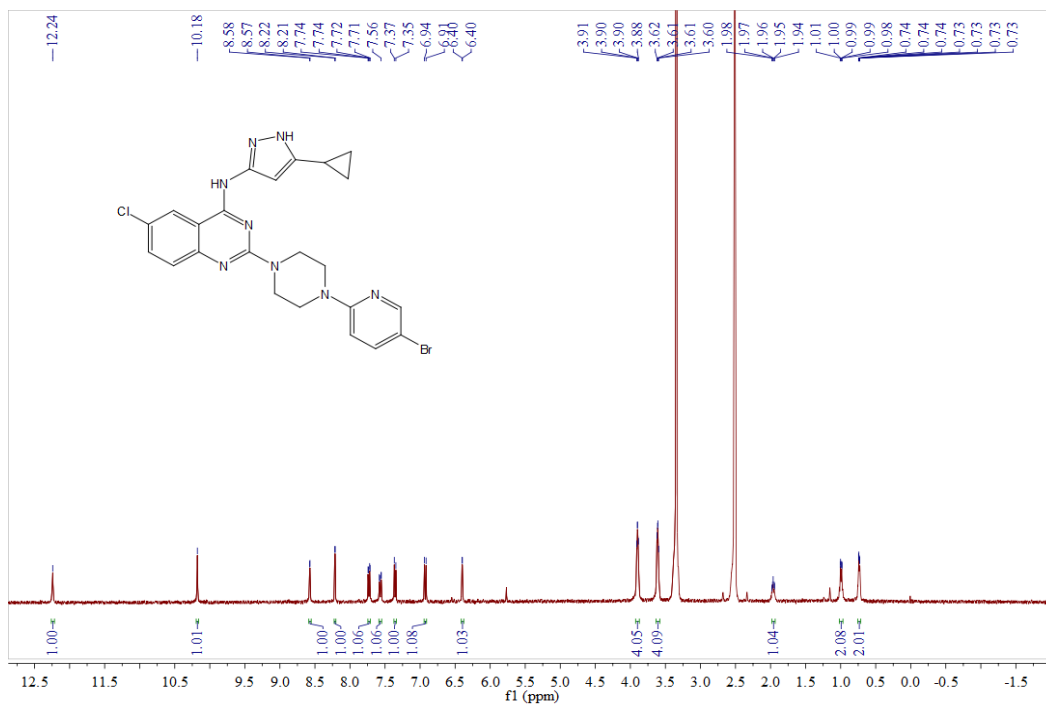


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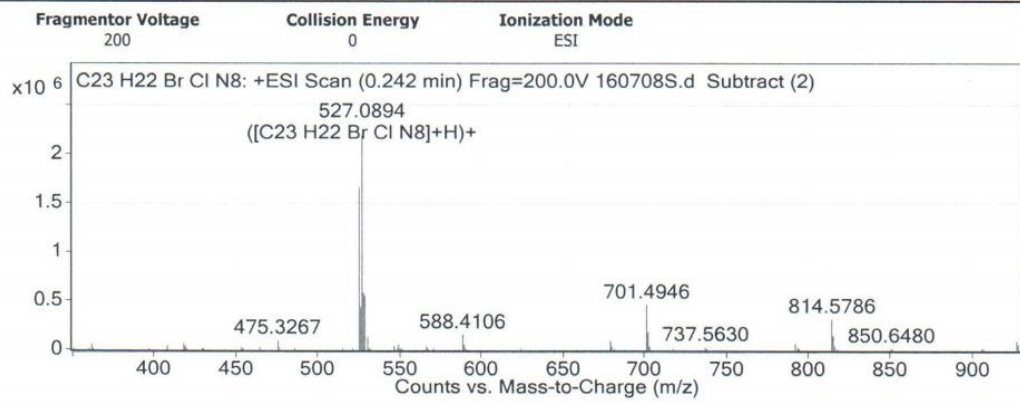


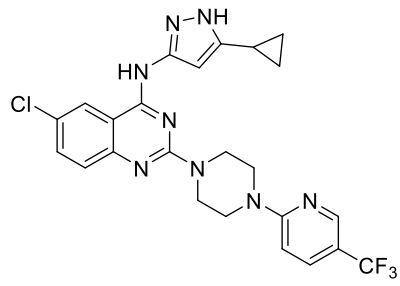


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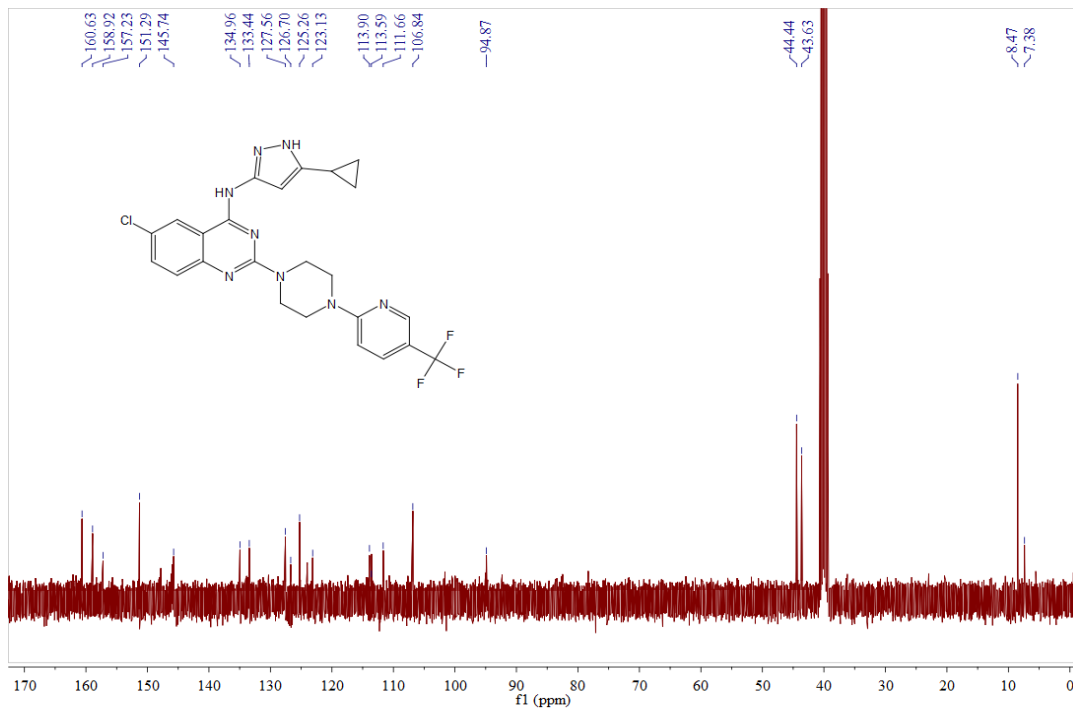
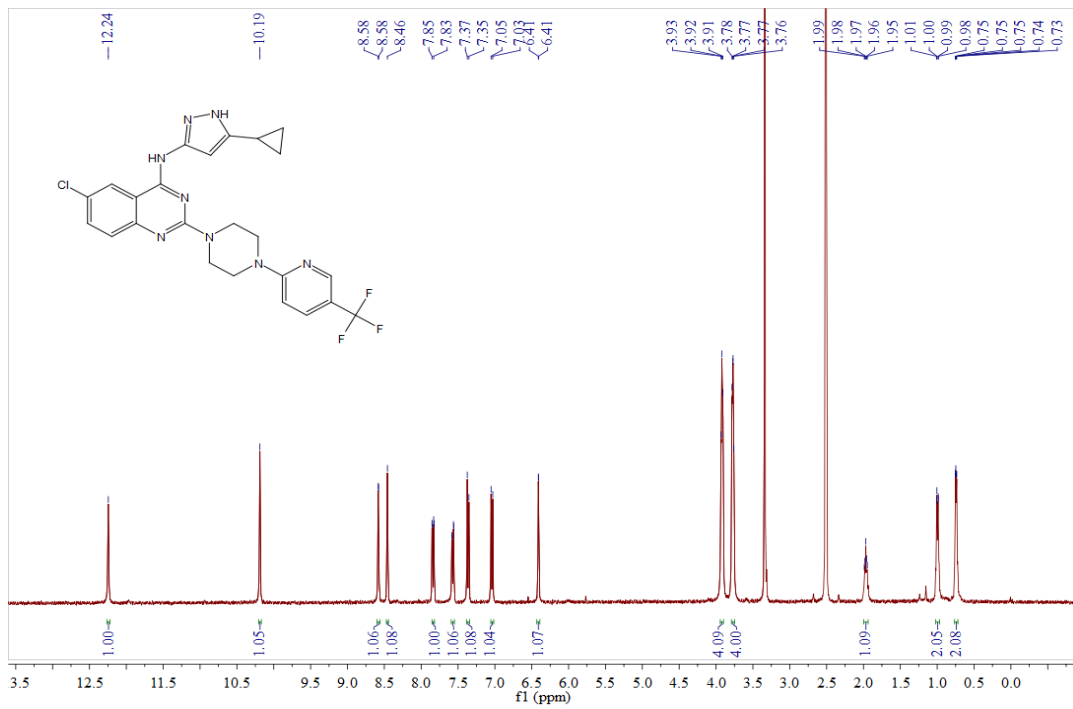


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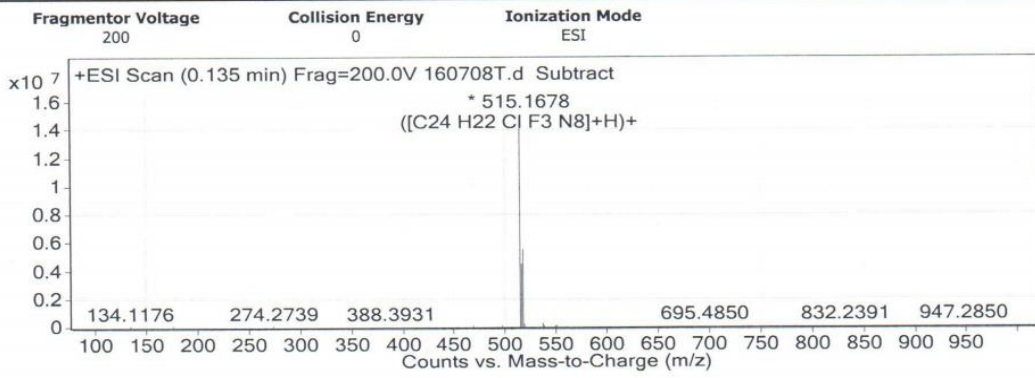


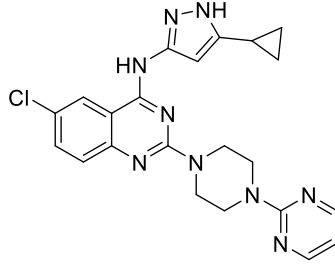


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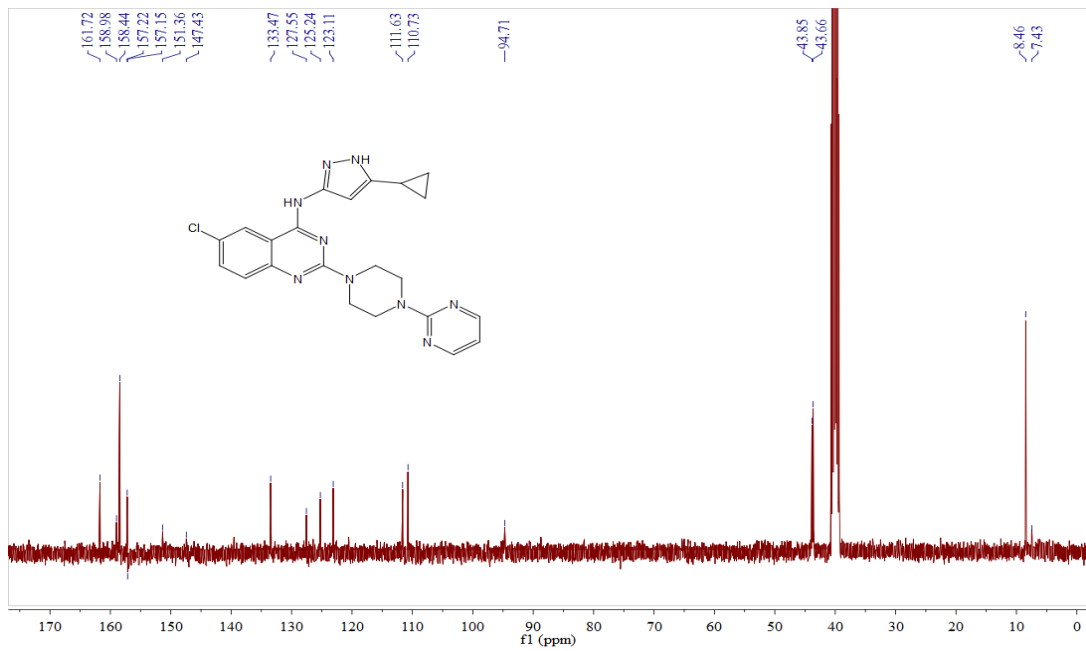
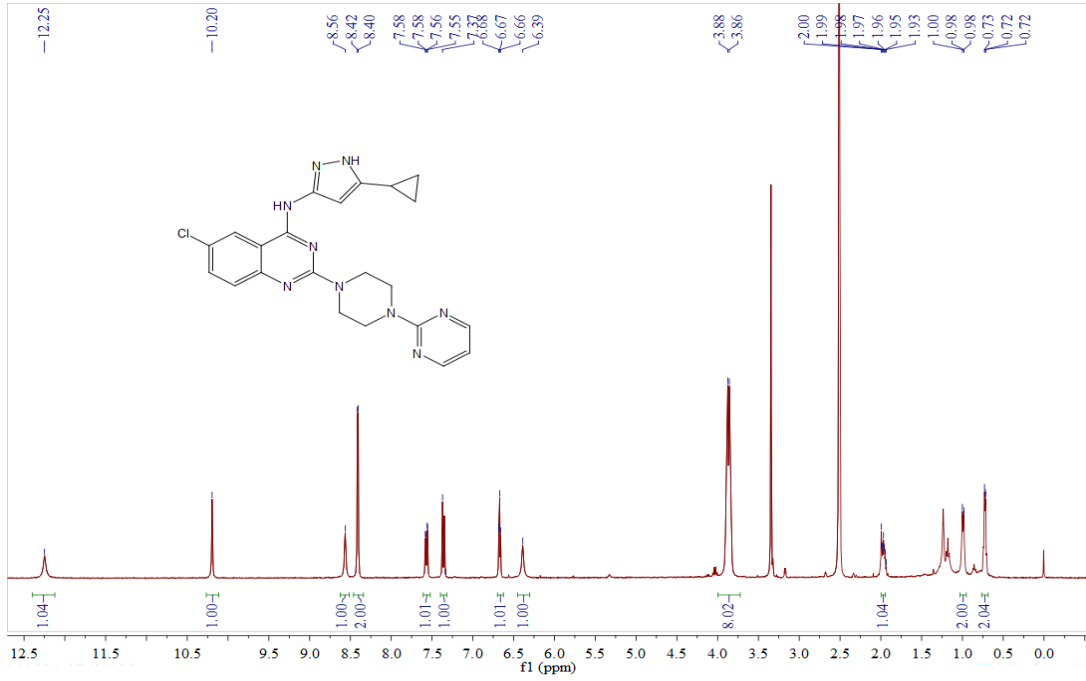


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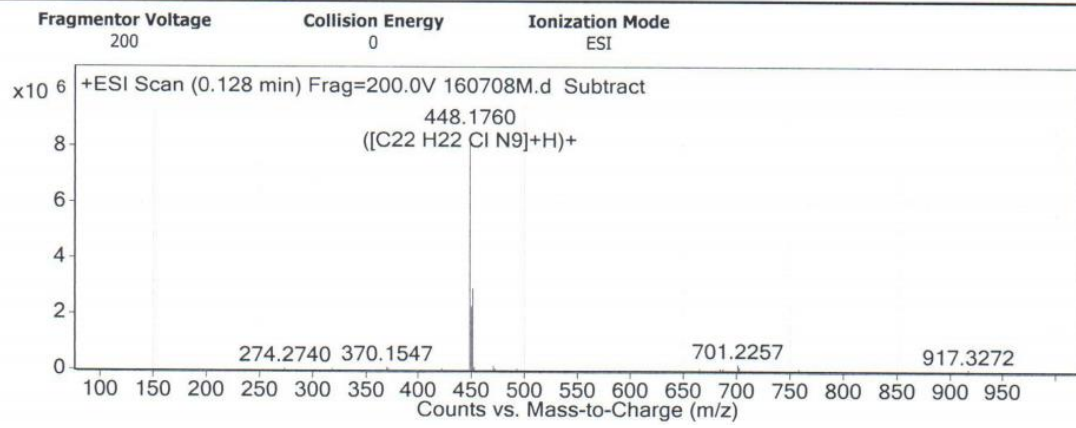


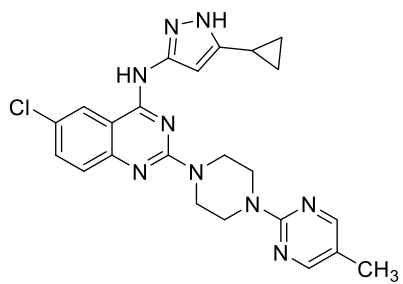


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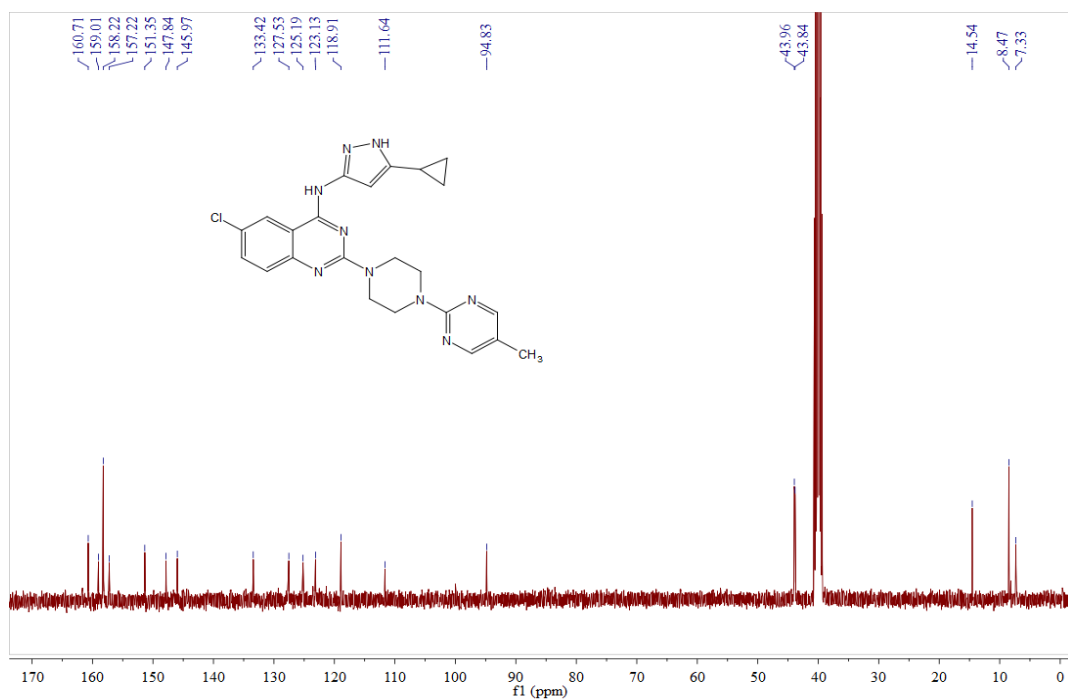
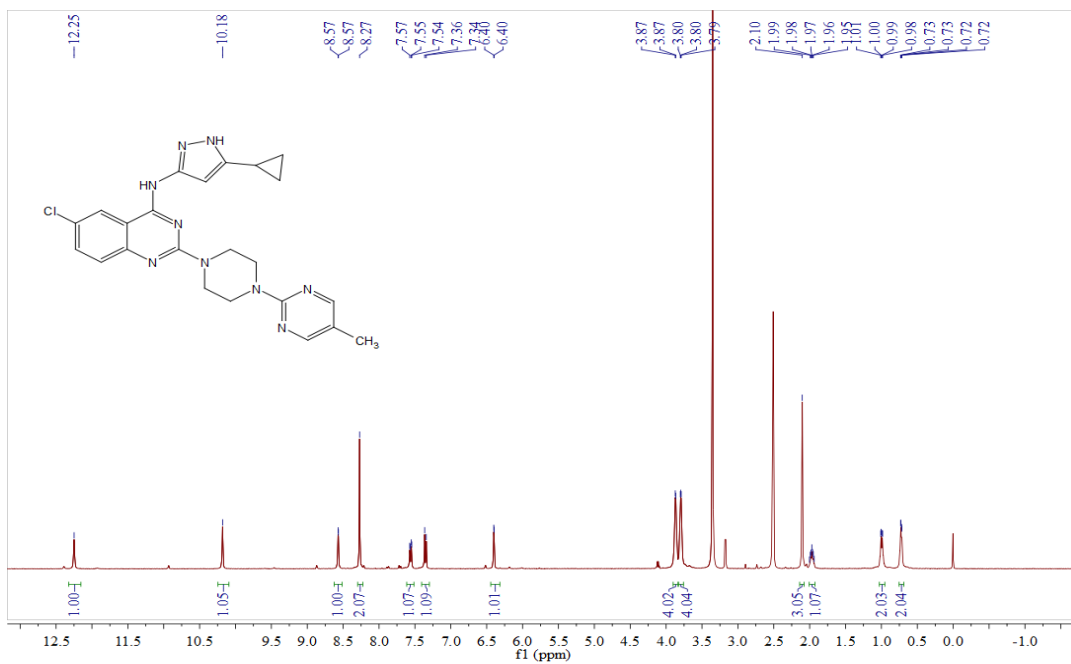


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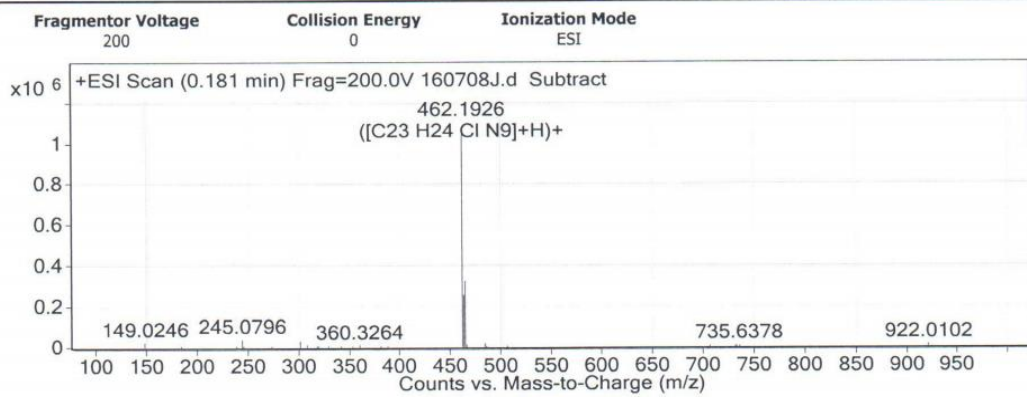


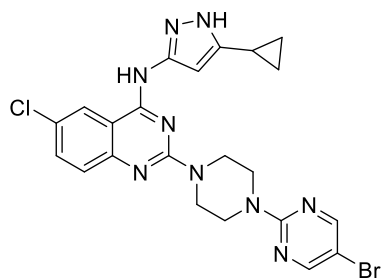


Compound **9b**

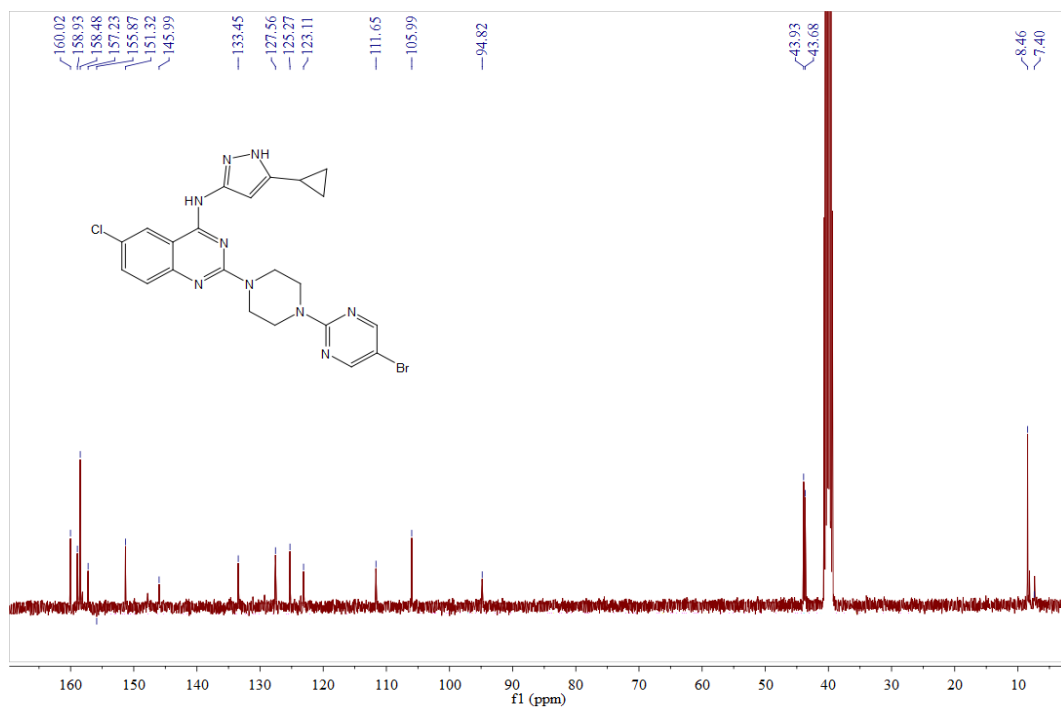
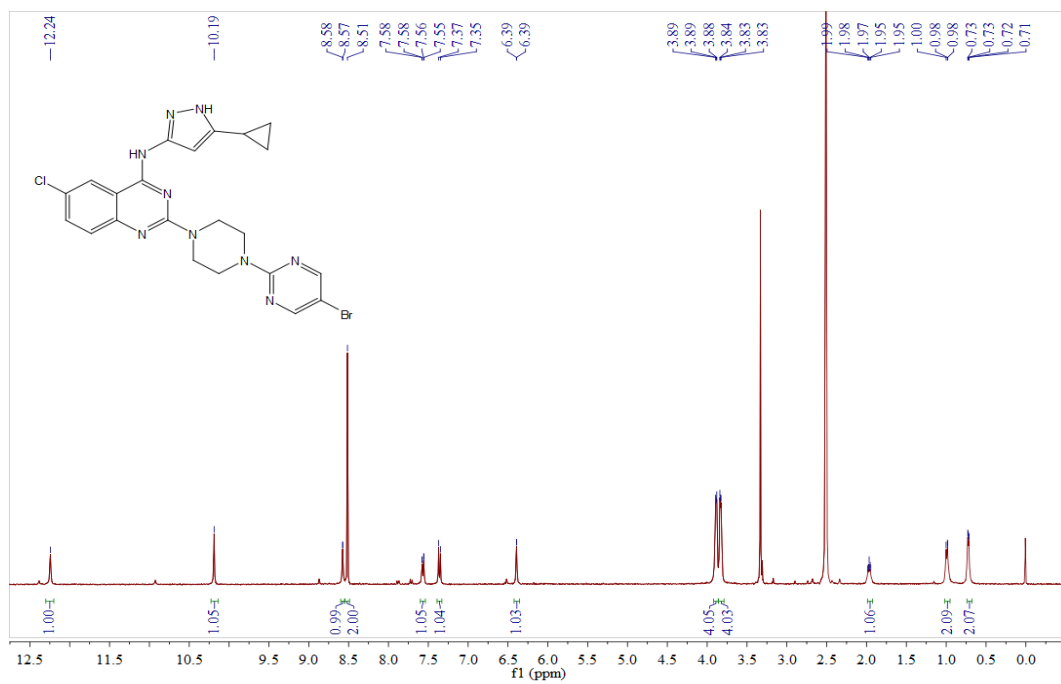


User Spectra





Compound 9c



User Spectra

