Supporting Information

Optimization of 2-aminoquinazolin-4(3*H*)-one derivatives as potent inhibitors of SARS-CoV-2: efficient synthesis and improved pharmacokinetic properties

Young Sup Shin[1,2,†], Jun Young Lee[1,2,†], Sangeun Jeon[3], Jung-Eun Cho[2], Subeen Myung[2,4], Min Seong Jang[5], Seungtaek Kim[3], Jong Hwan Song[2], Hyoung Rae Kim[2], Hyeung-geun Park[1,*], Lak Shin Jeong[1,*], Chul Min Park[2,4,*]

[1]*Research Institute of Pharmaceutical Sciences, College of Pharmacy, Seoul National University, Seoul 08826, Korea*

[2]*Center for Convergent Research of Emerging Virus Infection (CEVI), Korea Research Institute of Chemical Technology, 141 Gajeong-ro, Yuseong-gu, Daejeon 34114, Korea*

[3]*Zoonotic Virus Laboratory, Institut Pasteur Korea, Seongnam-si, Gyeonggi-do 13488, Korea*

[4]*Medicinal Chemistry and Pharmacology, Korea University of Science and Technology, Daejeon 34114, Korea*

[5]*Department of Non-Clinical Studies, Korea Institute of Toxicology, Yuseong-gu, Daejeon 34114, Korea*

[*]Correspondence: parkcm@krict.re.kr (C.M. Park), lakjeong@snu.ac.kr (L.S. jeong), hgpk@snu.ac.kr (H.-g. Park)

[†] These authors contributed equally to this work

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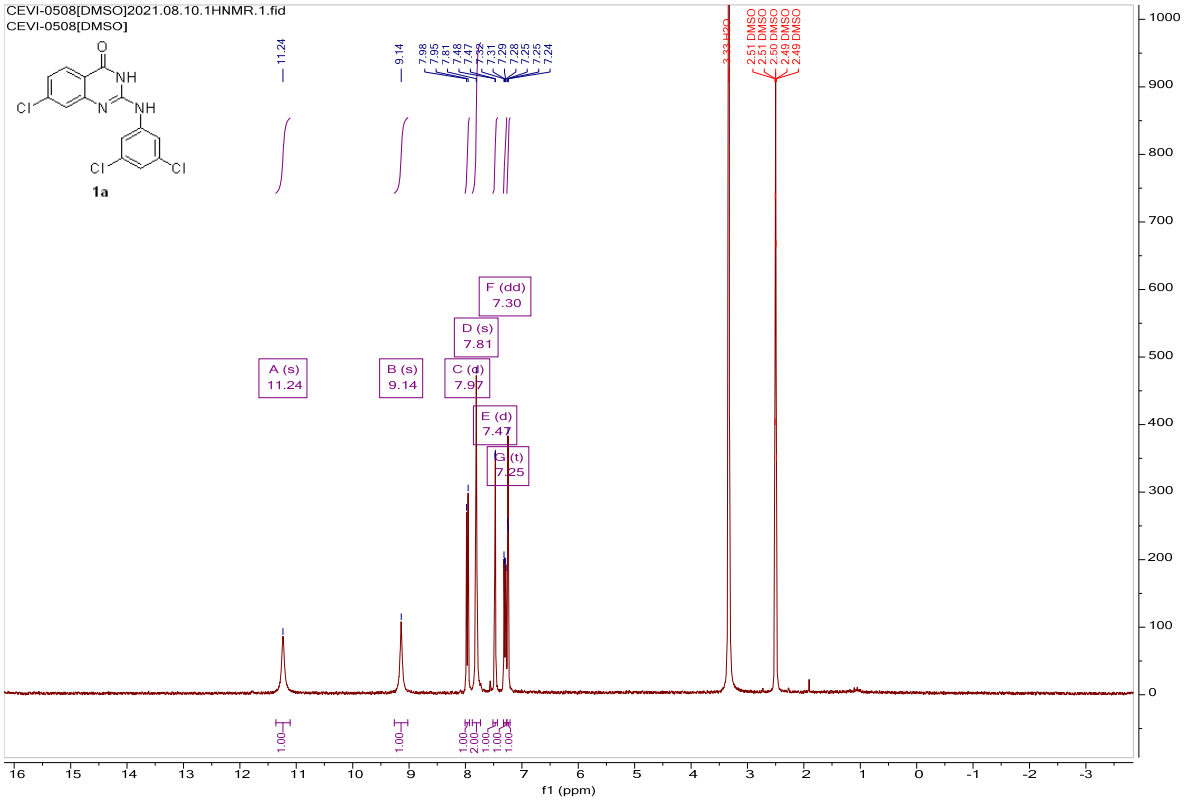
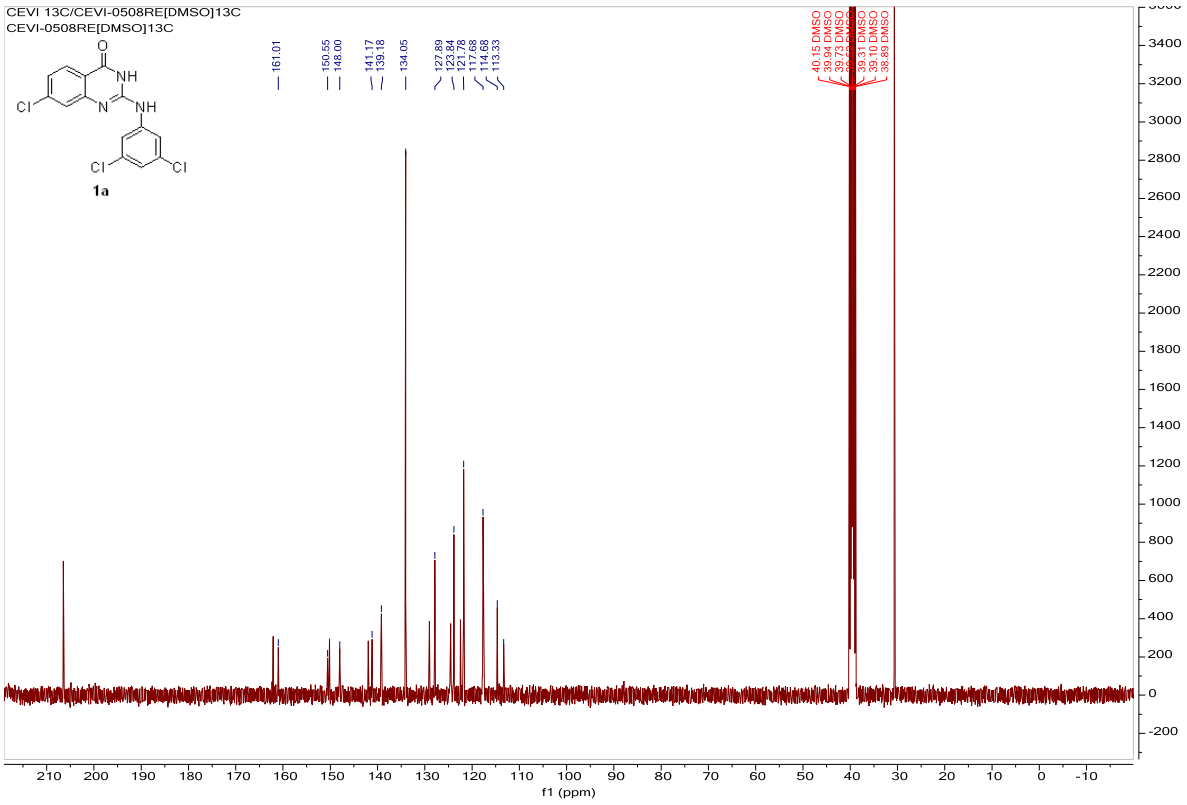
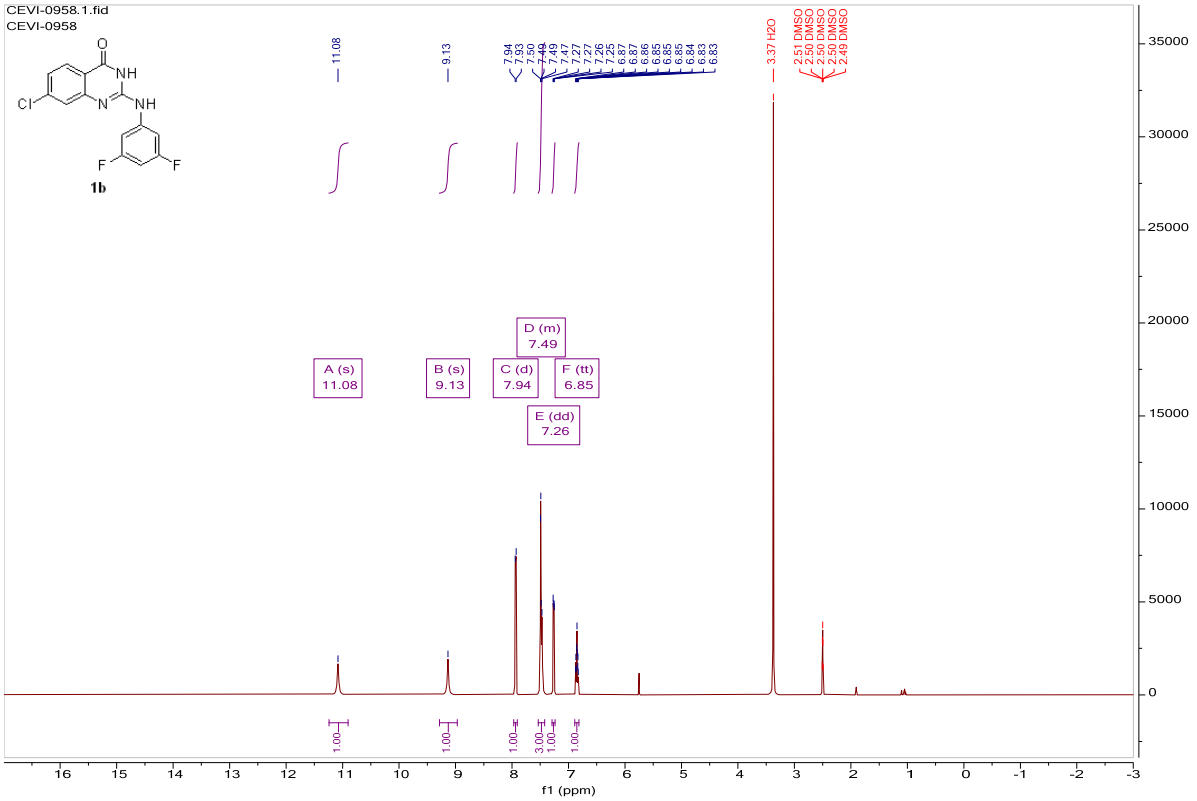


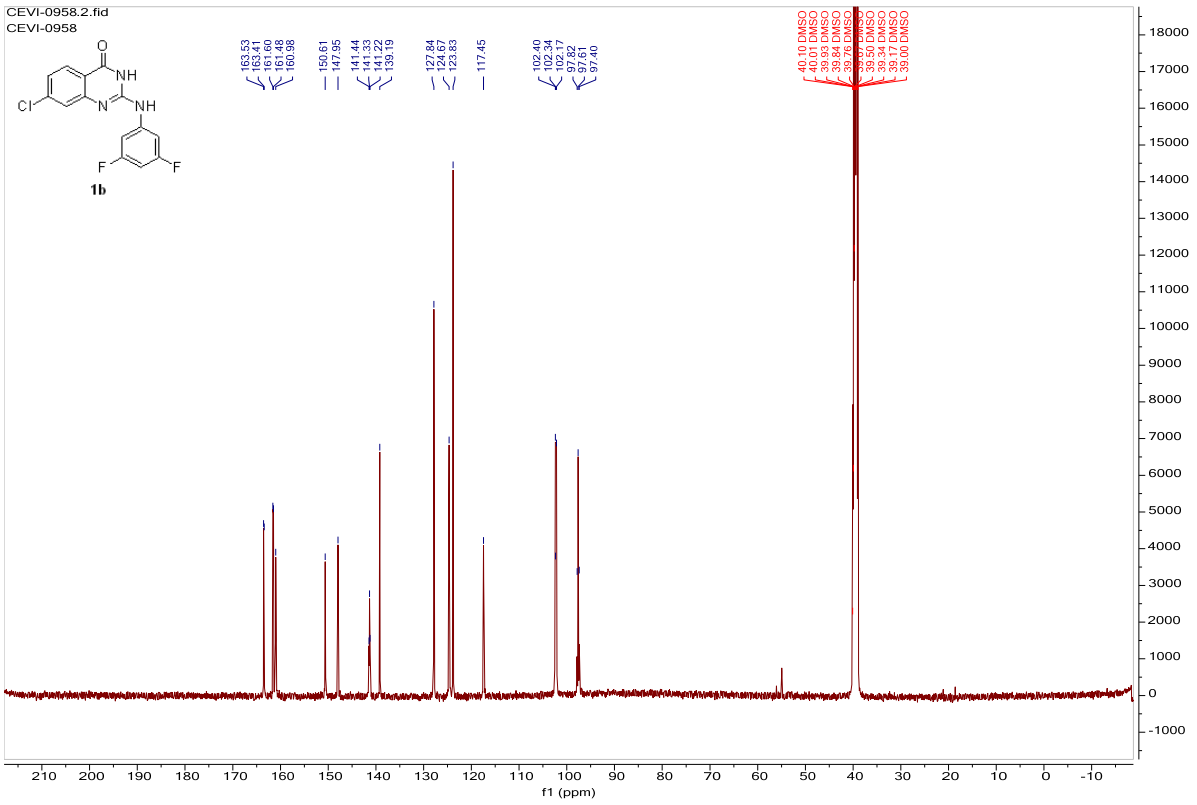
^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **1a**



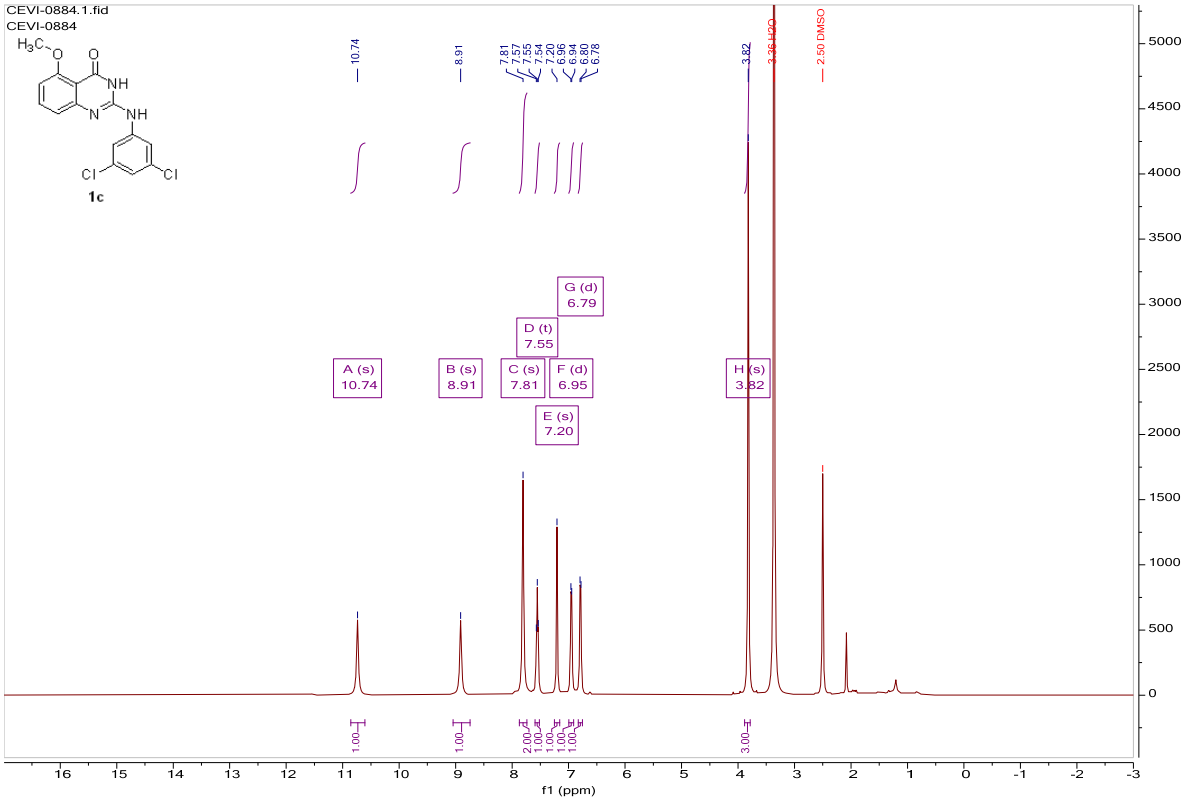
^{13}C NMR spectrum (100 MHz, DMSO-d_6) of **1a**



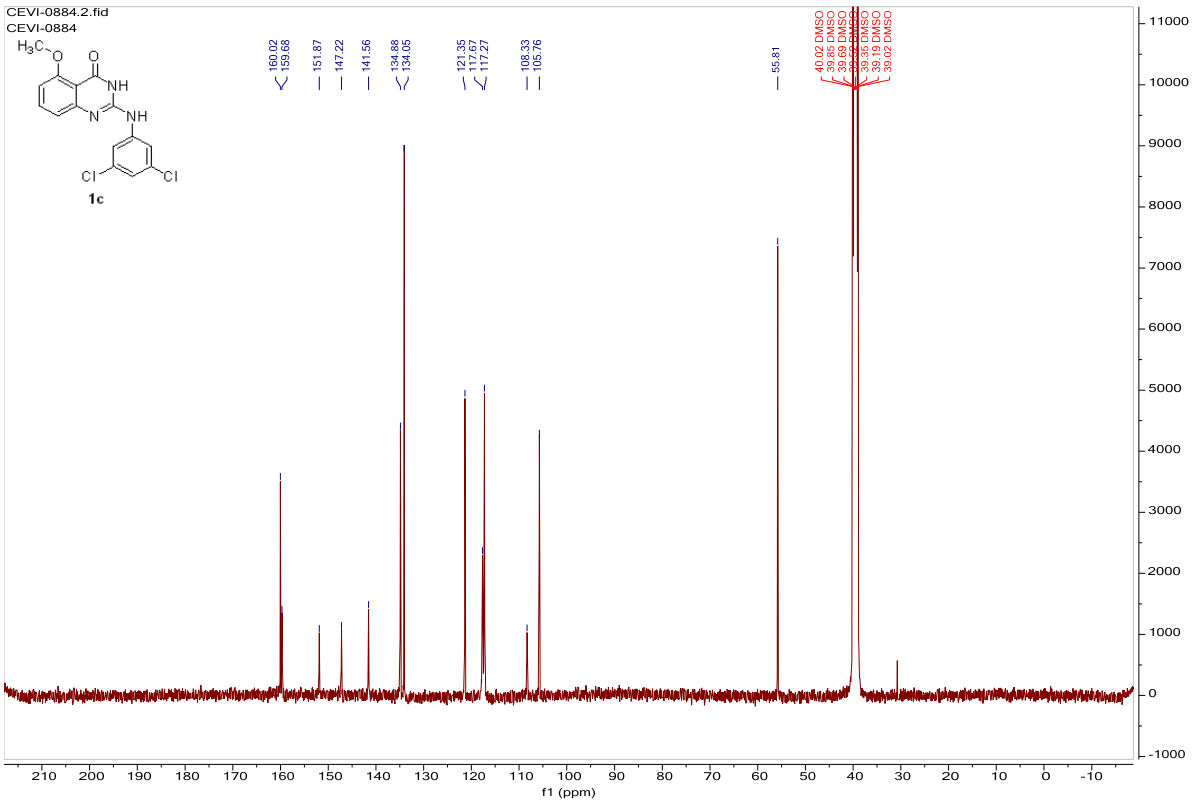
^{1}H NMR spectrum (500 MHz, DMSO-*d*$_6$) of **1b**



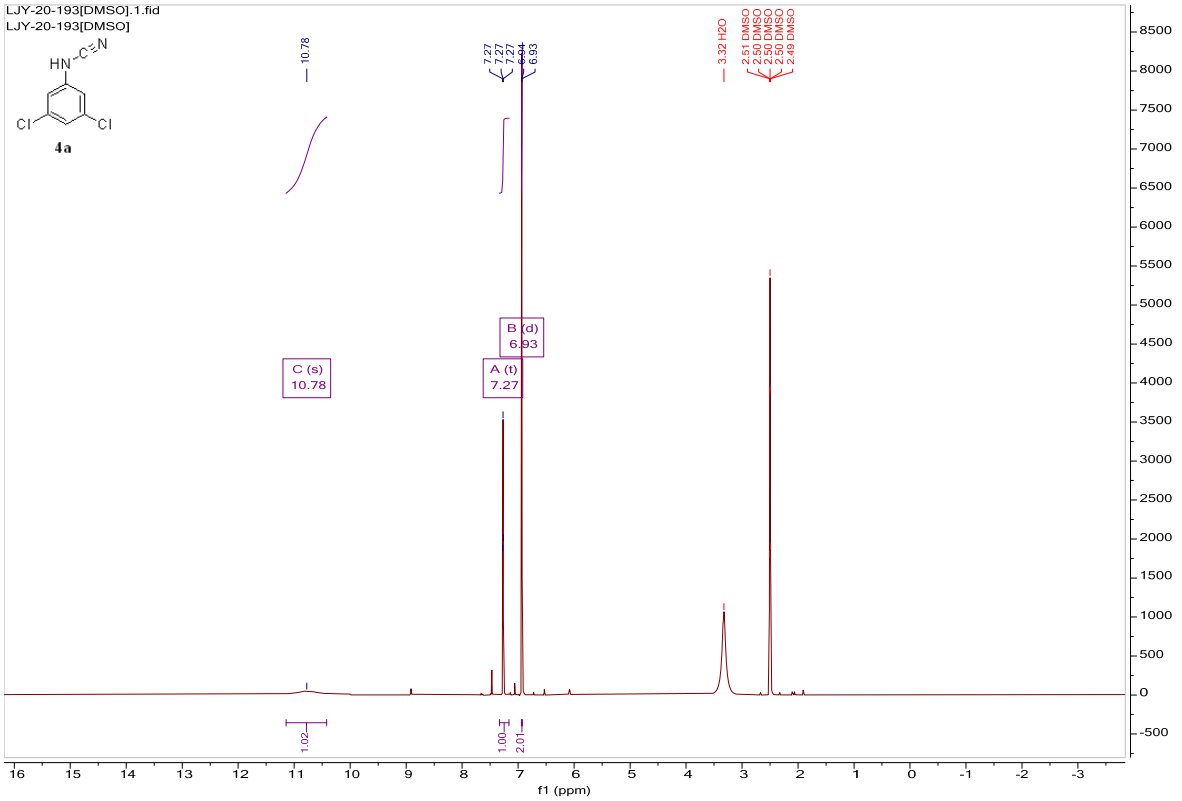
^{13}C NMR spectrum (125 MHz, DMSO-*d*$_6$) of **1b**



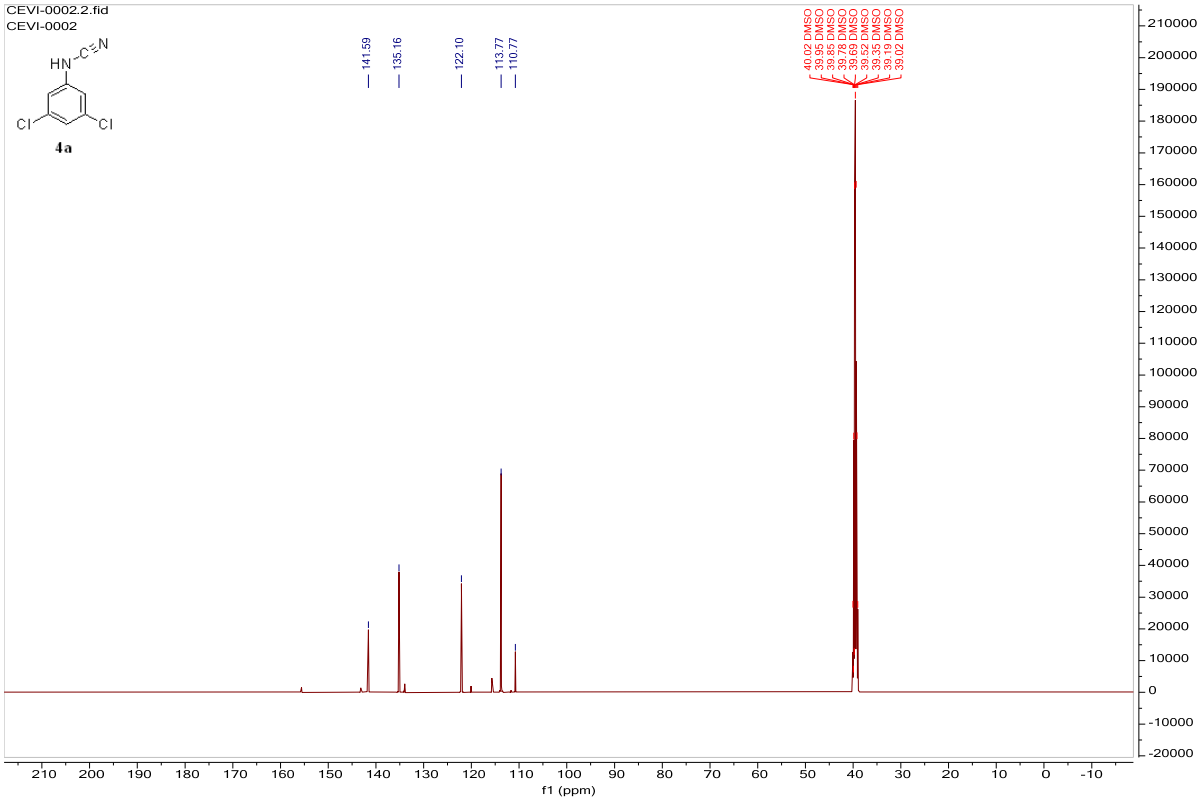
^{1}H NMR spectrum (500 MHz, DMSO-d_6) of **1c**



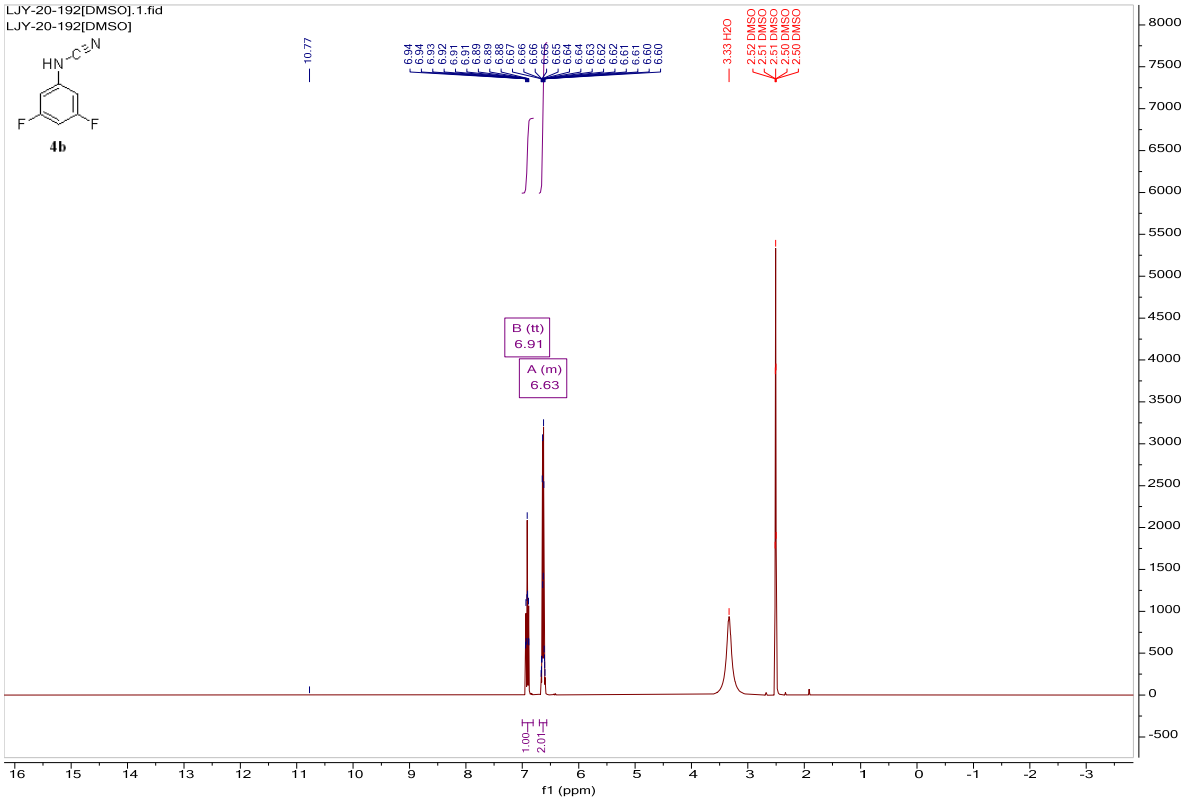
^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **1c**



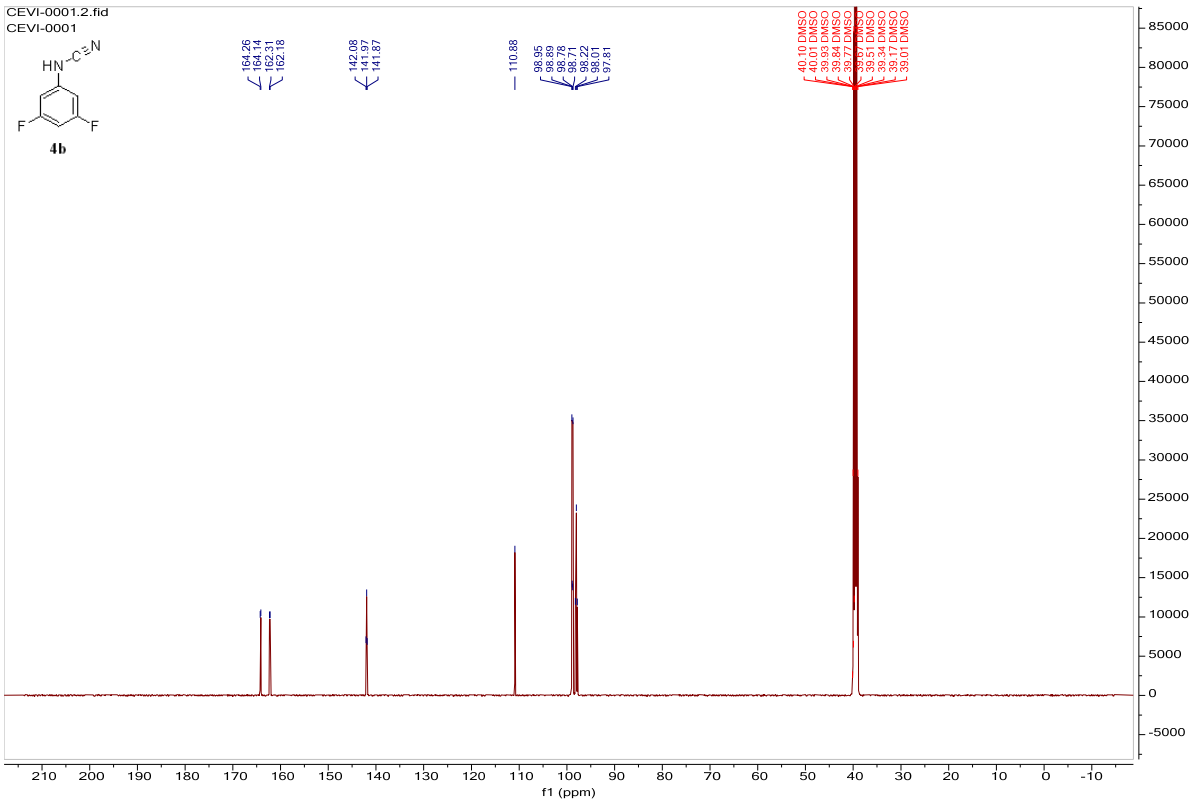
^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **4a**



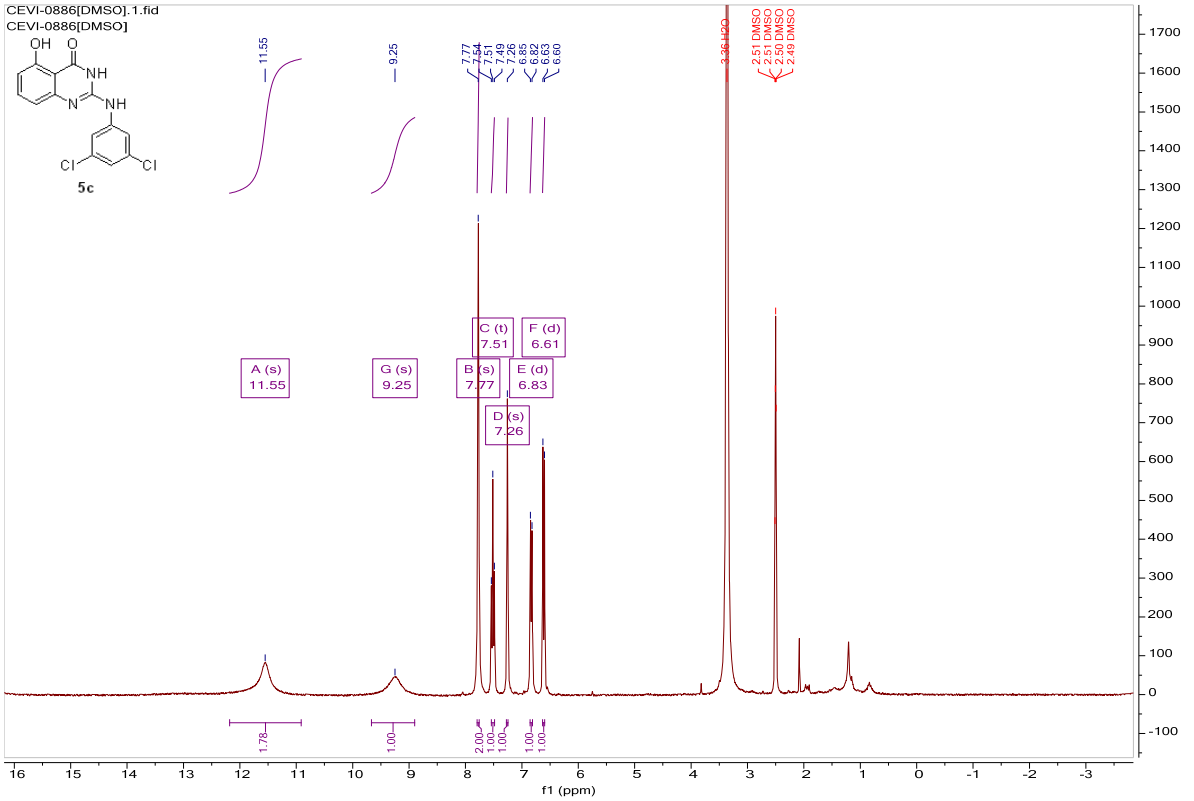
^{13}C NMR spectrum (100 MHz, DMSO-d_6) of **4a**



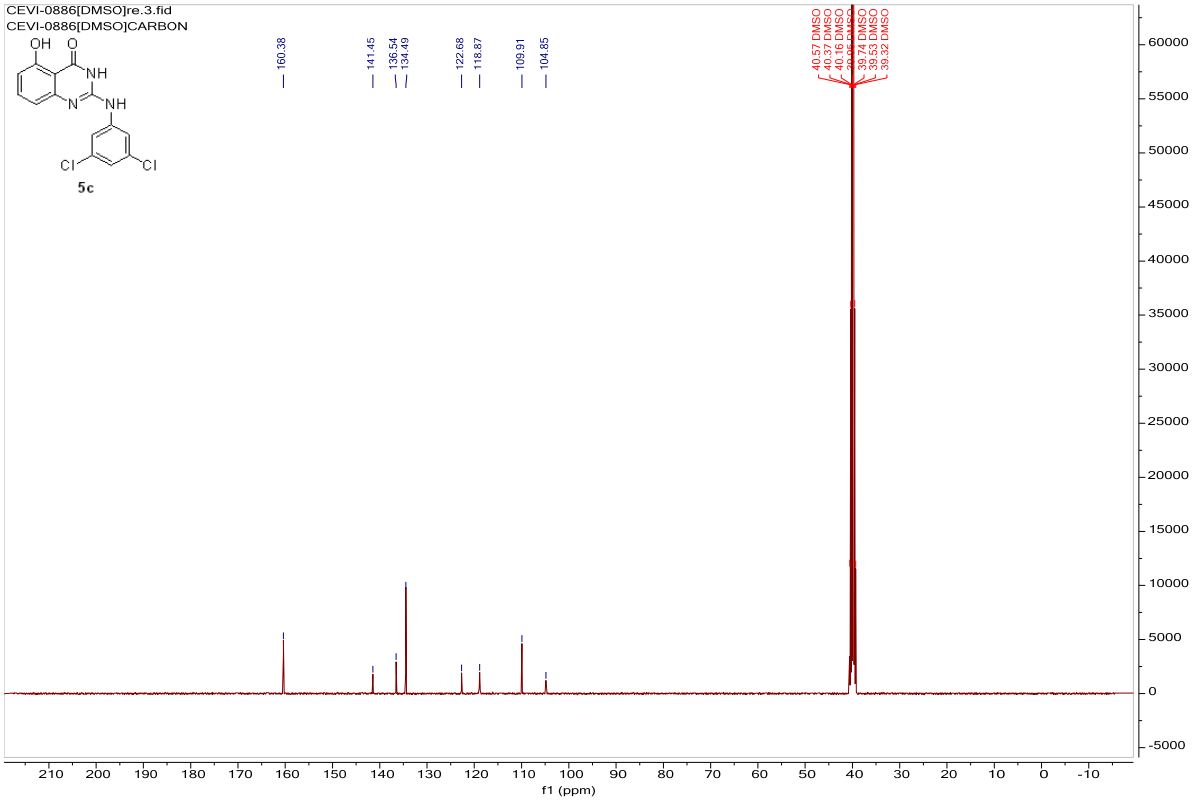
^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **4b**



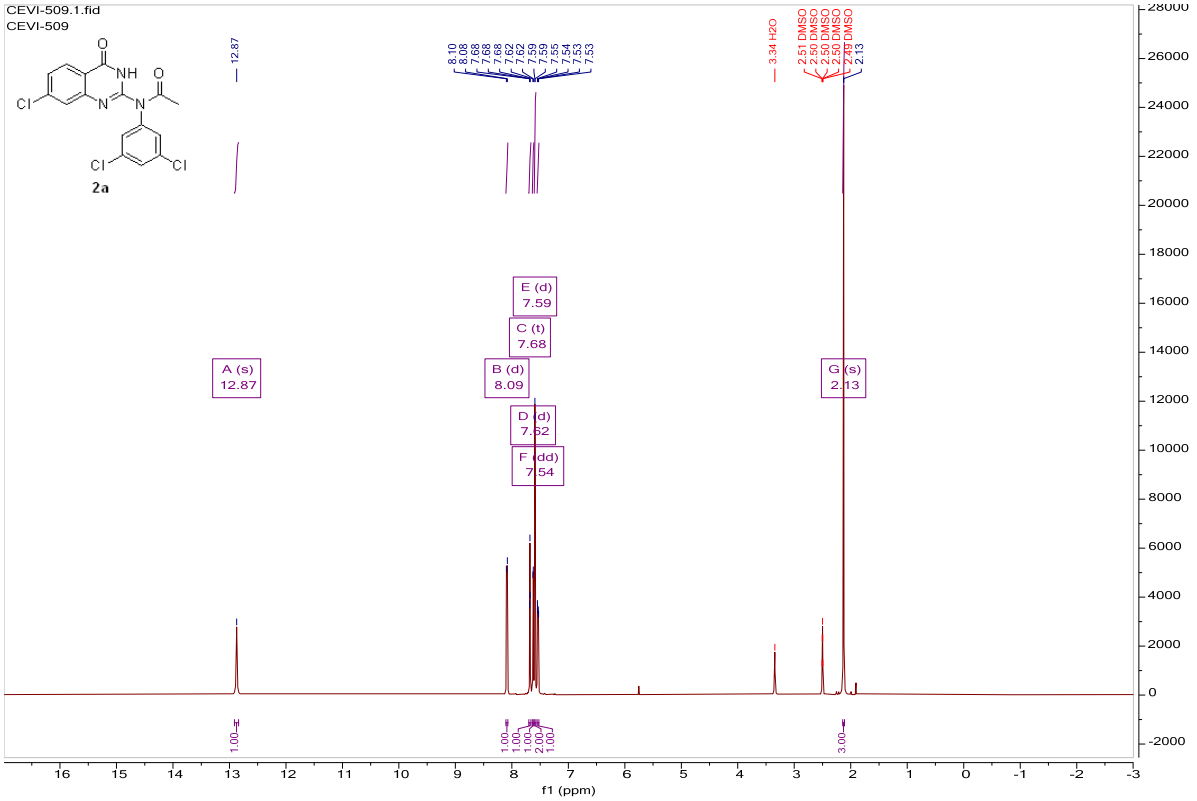
^{13}C NMR spectrum (100 MHz, DMSO-d_6) of **4b**



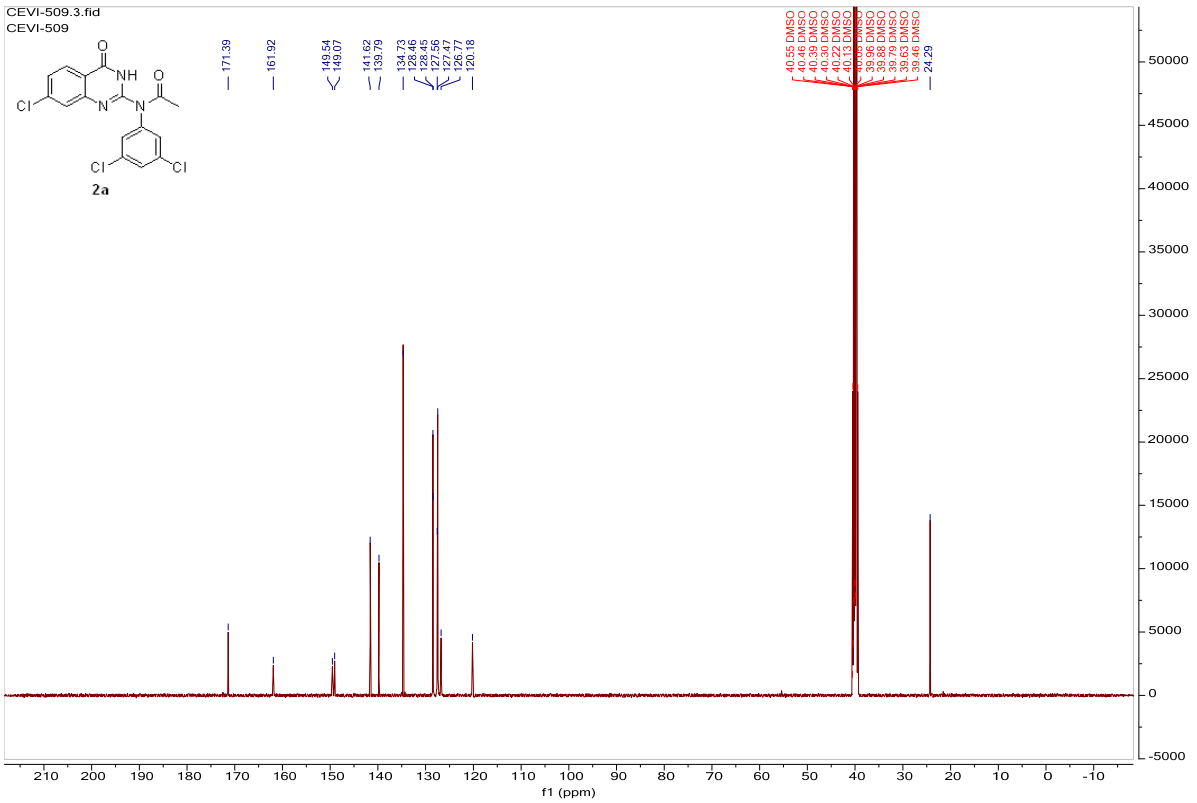
^{1}H NMR spectrum (300 MHz, DMSO-d_6) of **5c**



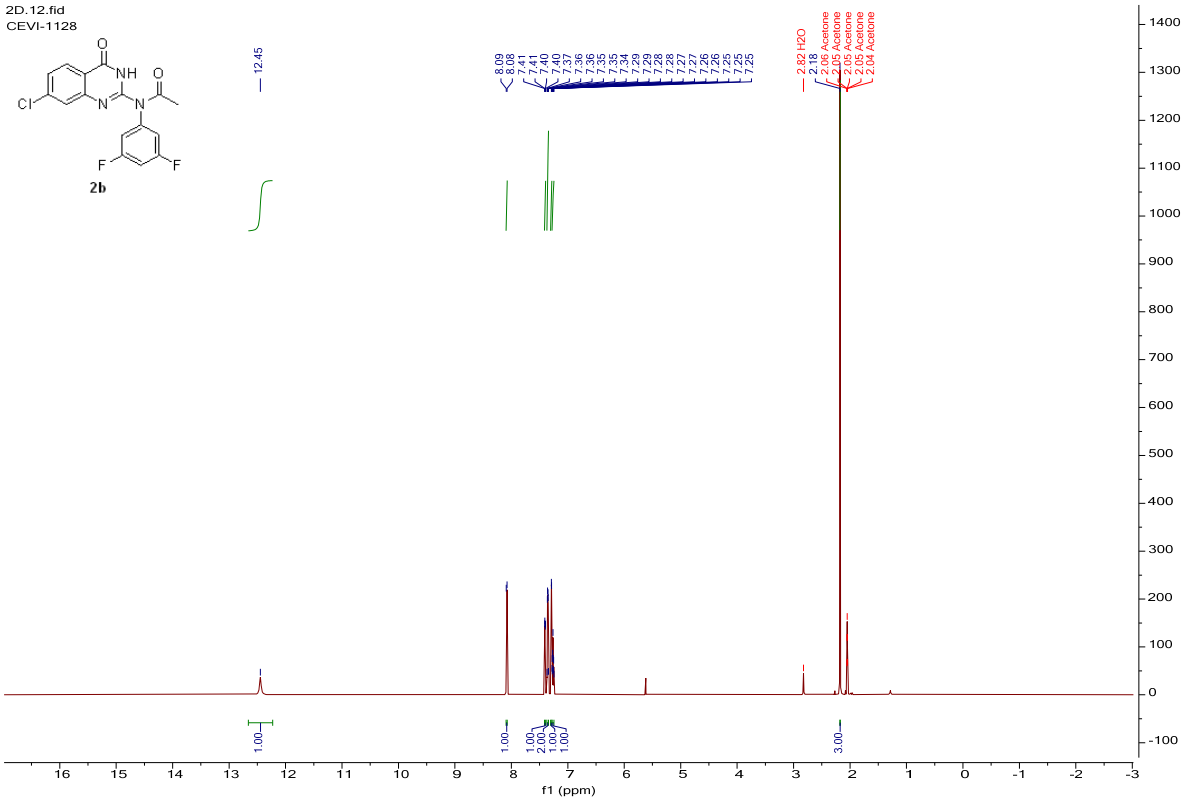
^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **5c**



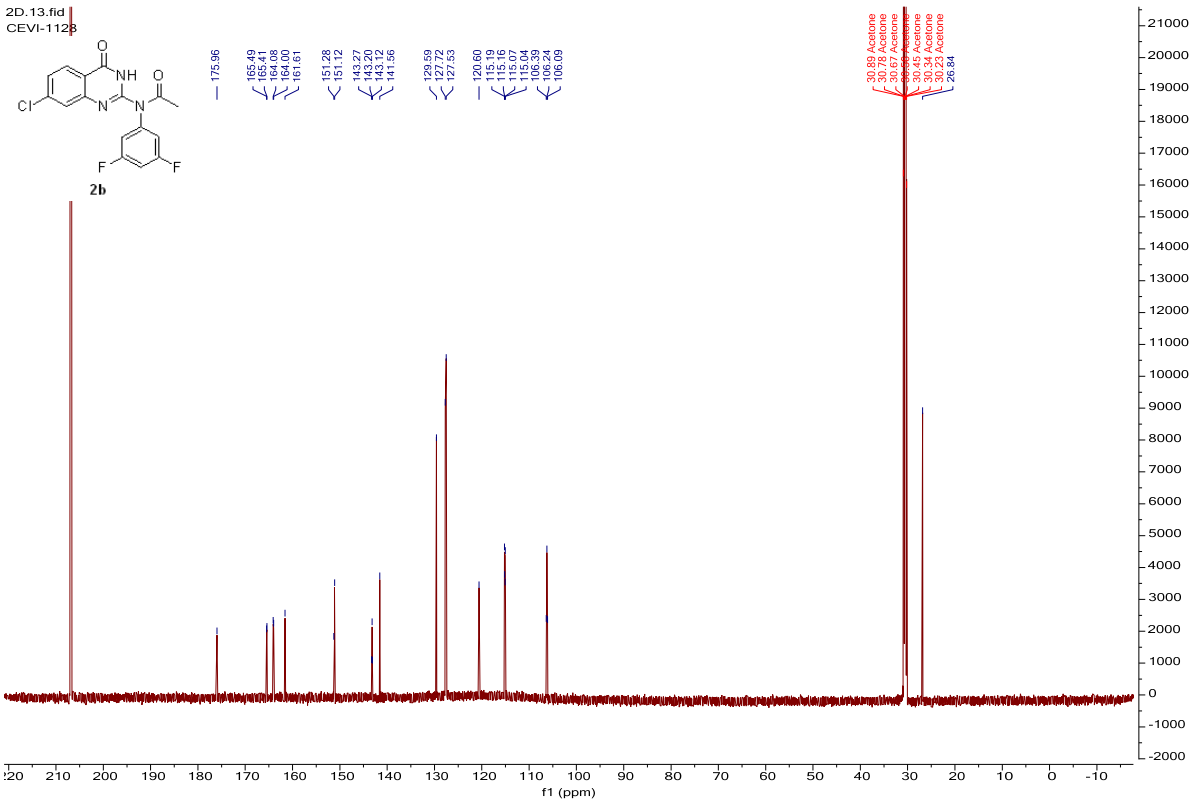
^{1}H NMR spectrum (500 MHz, DMSO-*d*$_6$) of **2a**



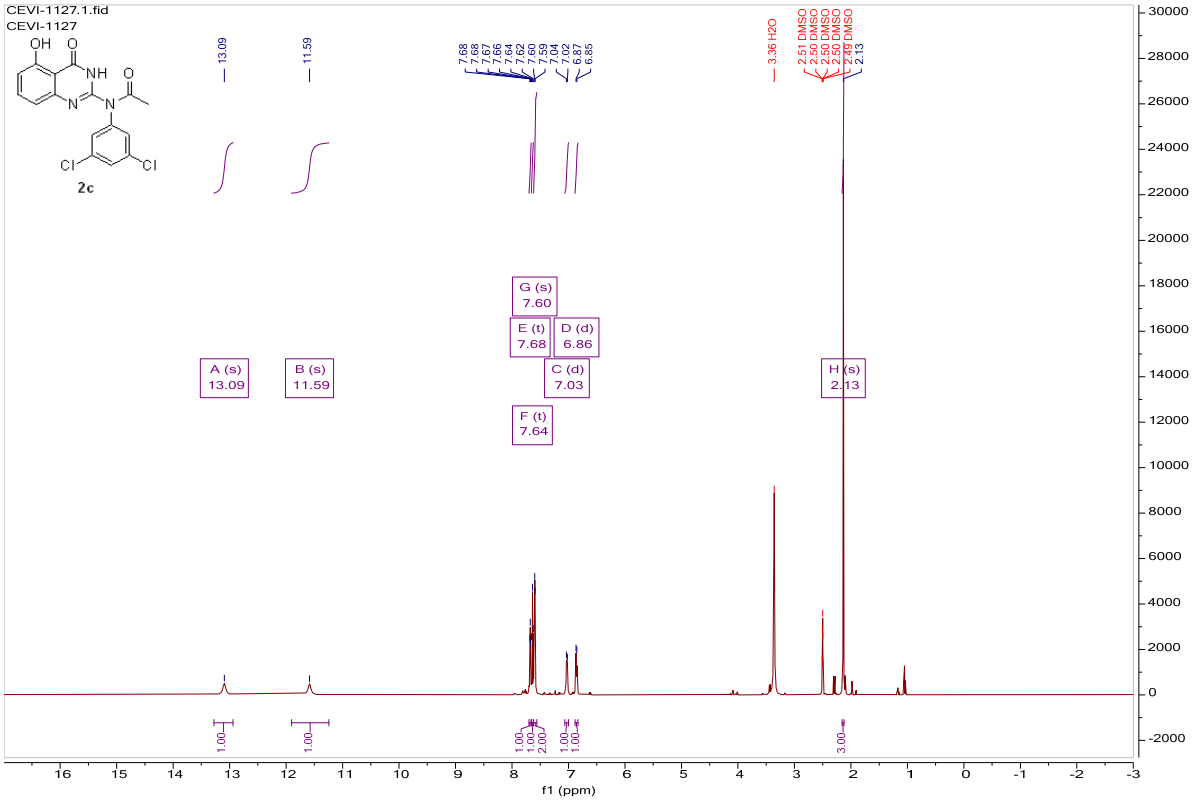
^{13}C NMR spectrum (125 MHz, DMSO-*d*$_6$) of **2a**



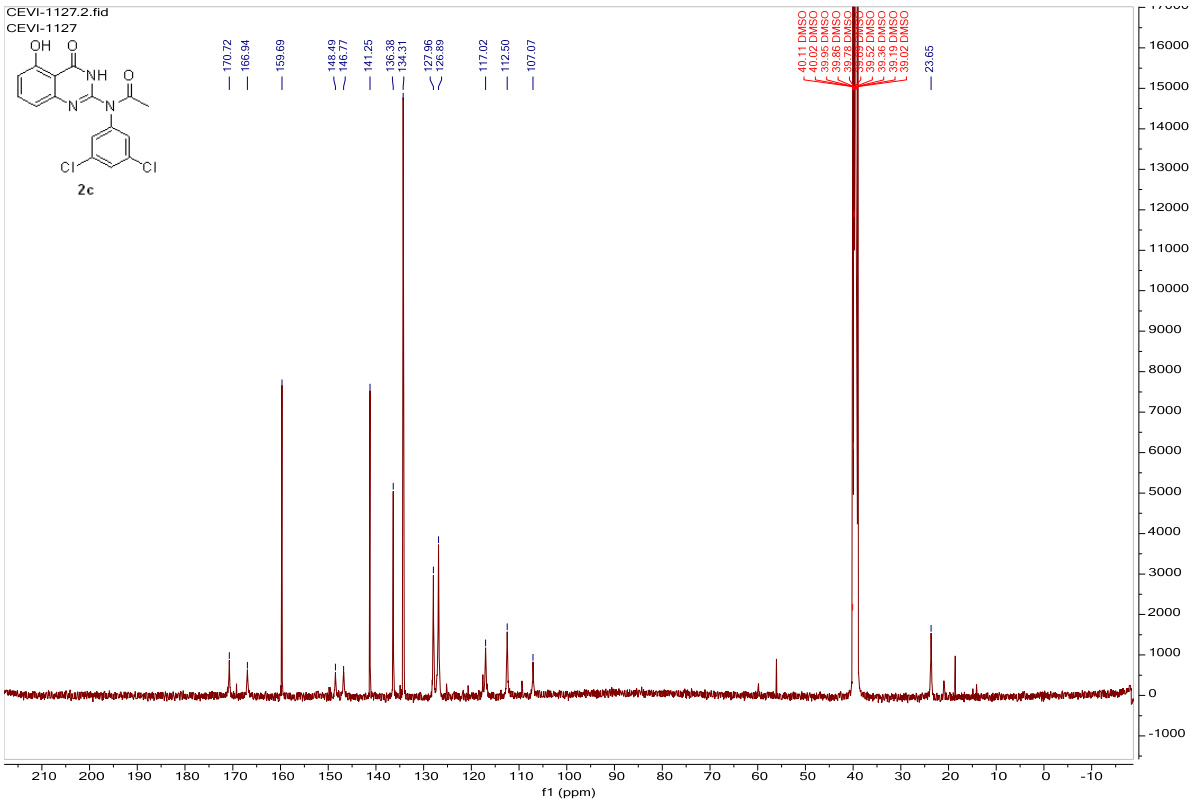
^{1}H NMR spectrum (700 MHz, Acetone-d_6) of **2b**



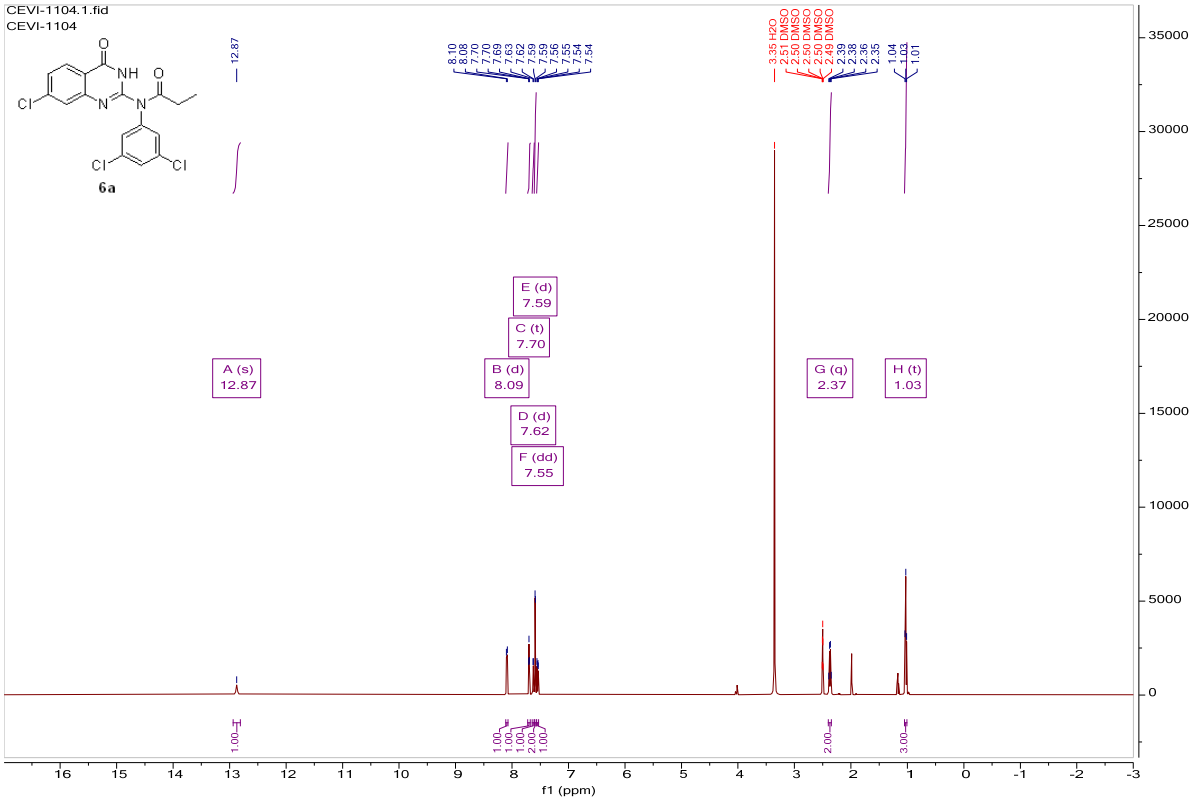
^{13}C NMR spectrum (175 MHz, Acetone-d_6) of **2b**



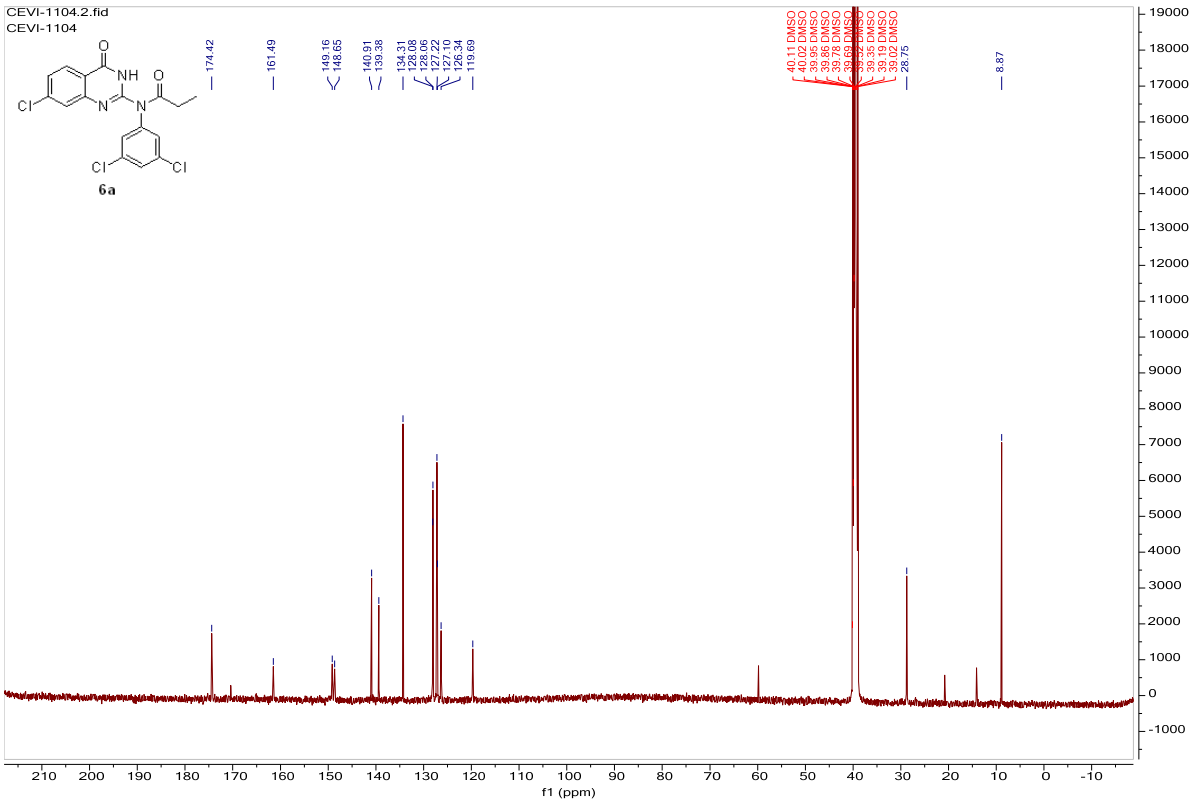
^{1}H NMR spectrum (500 MHz, DMSO-*d*$_6$) of **2c**



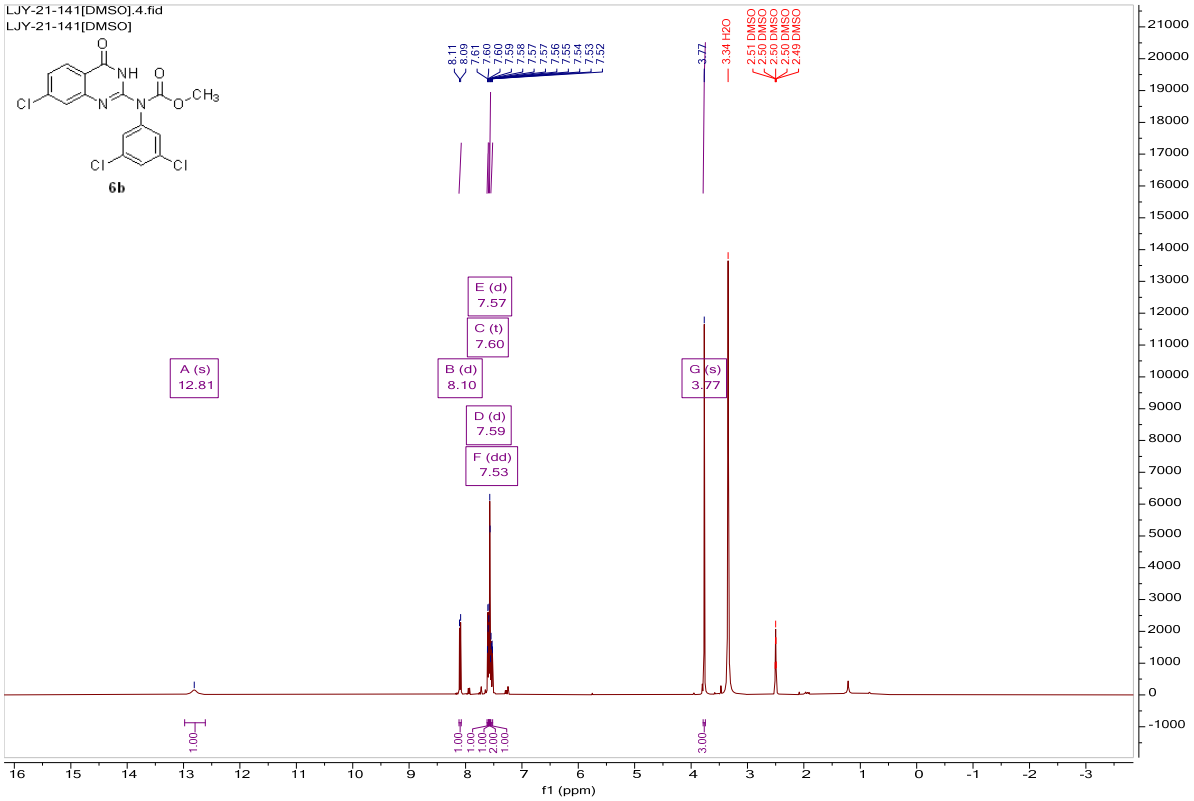
^{13}C NMR spectrum (125 MHz, DMSO-*d*$_6$) of **2c**



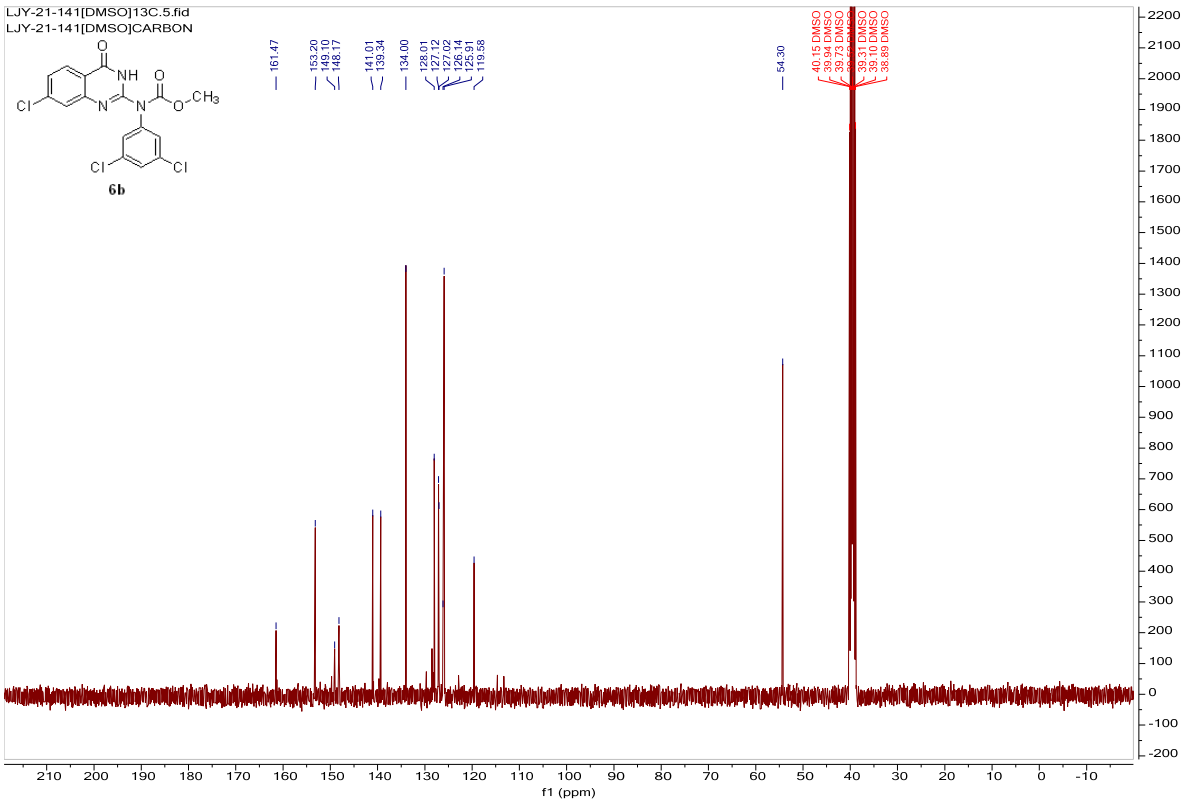
^{1}H NMR spectrum (500 MHz, DMSO-d_6) of **6a**



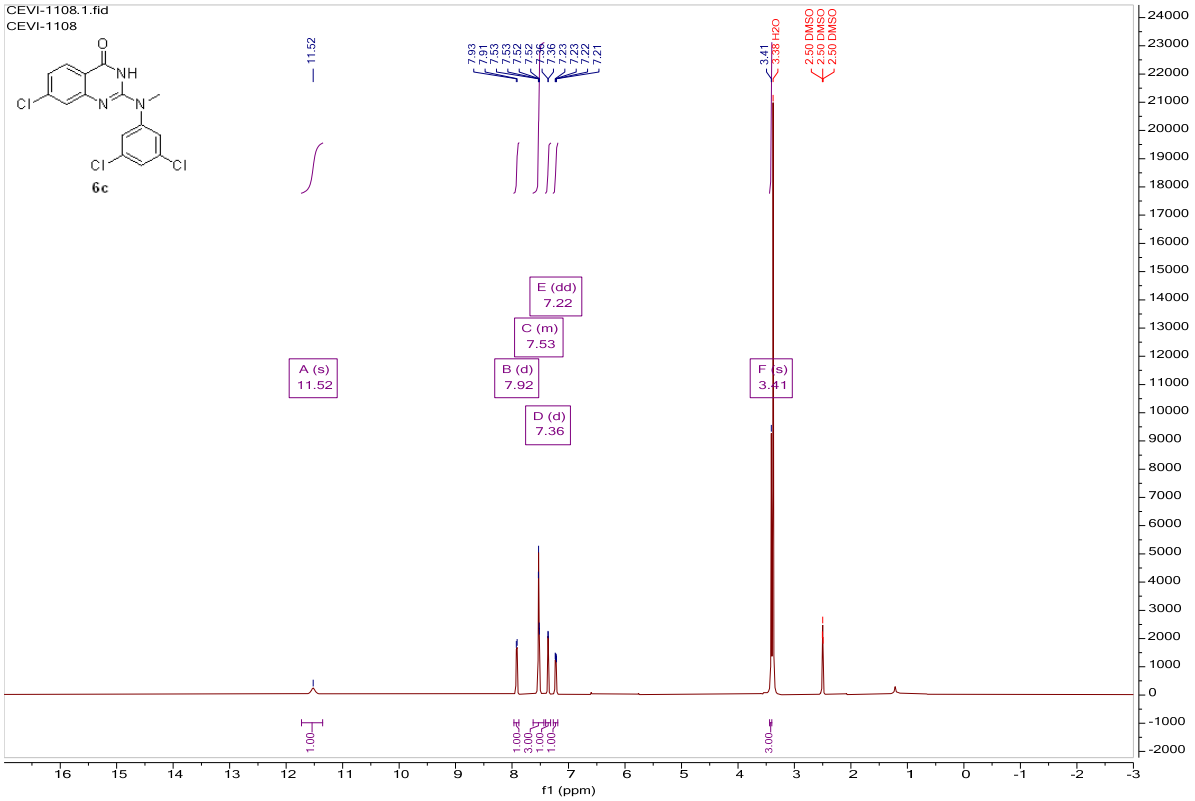
^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **6a**



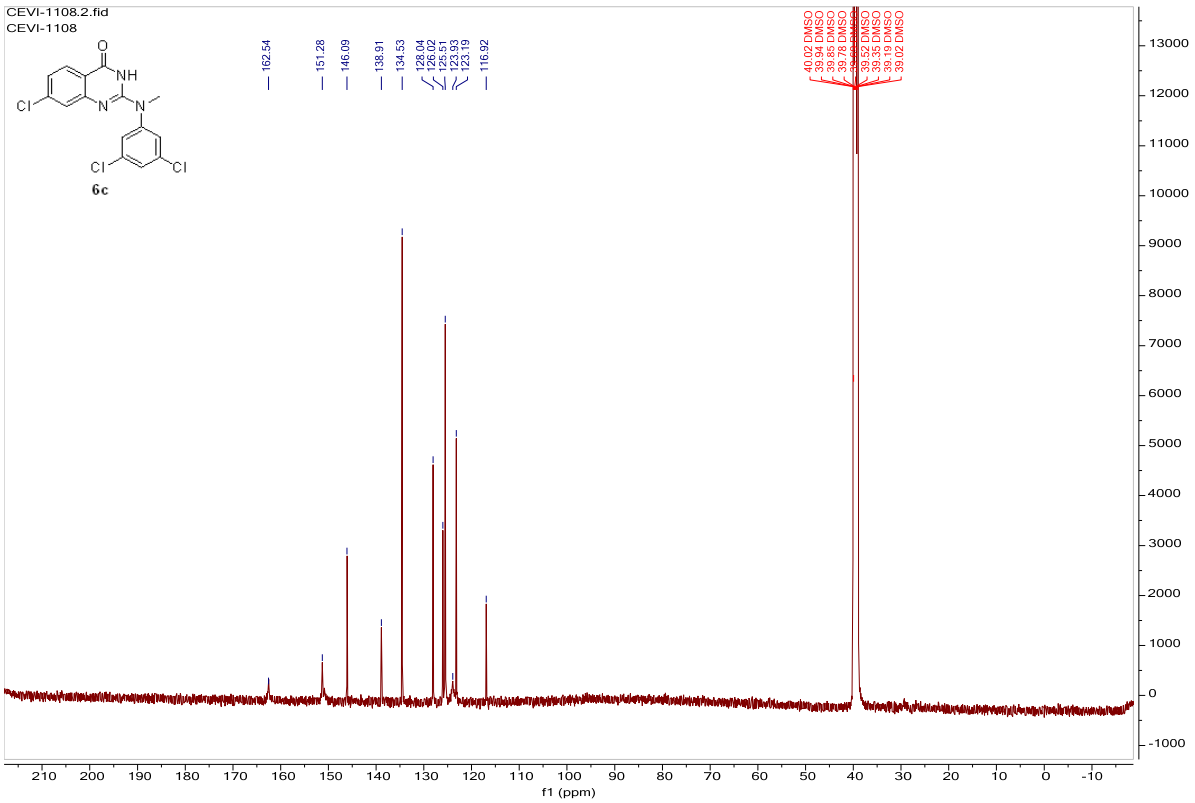
^{1}H NMR spectrum (400 MHz, DMSO-d_6) of **6b**



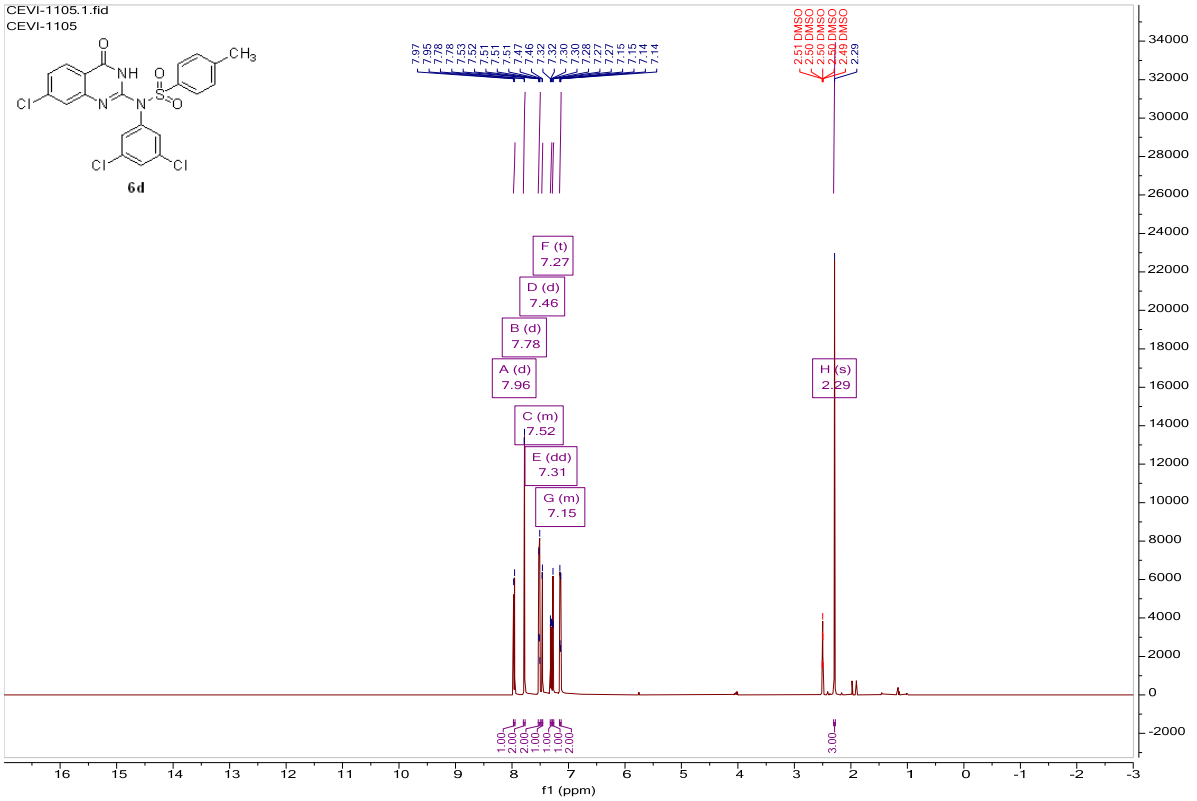
^{13}C NMR spectrum (100 MHz, DMSO-d_6) of **6b**



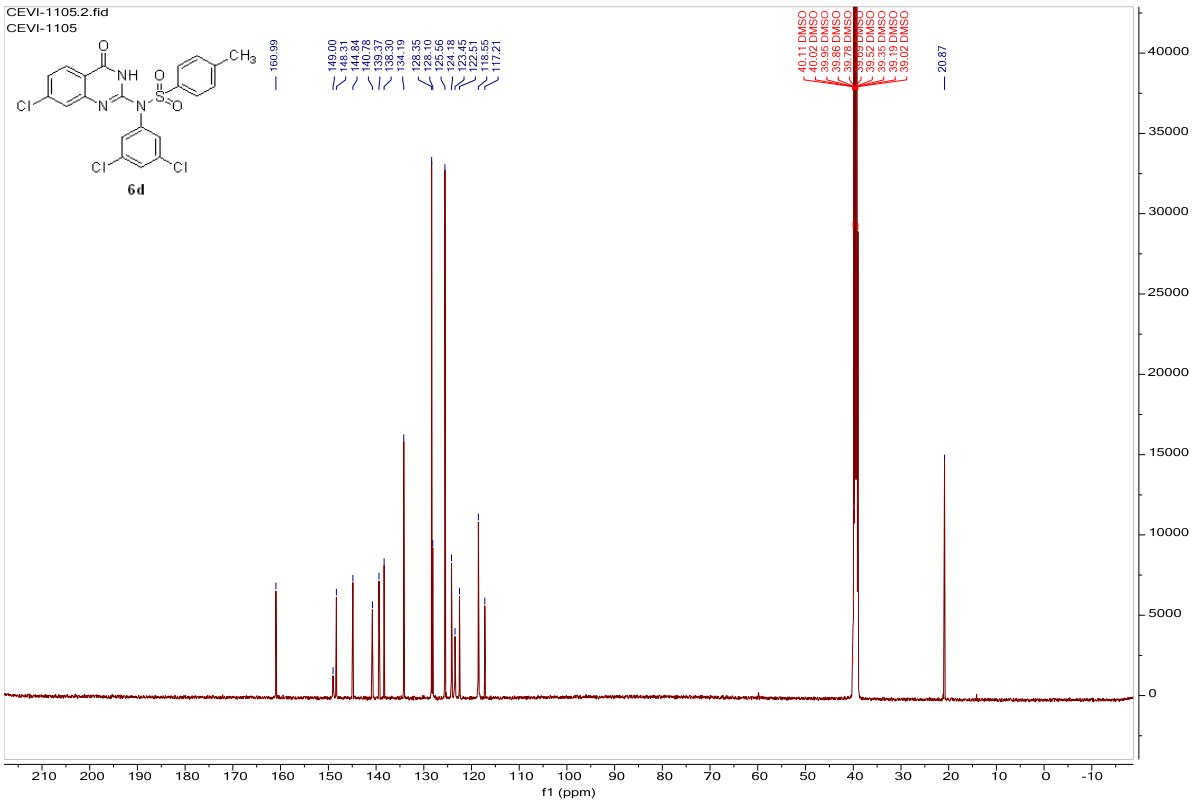
^{1}H NMR spectrum (500 MHz, DMSO-d_6) of **6c**



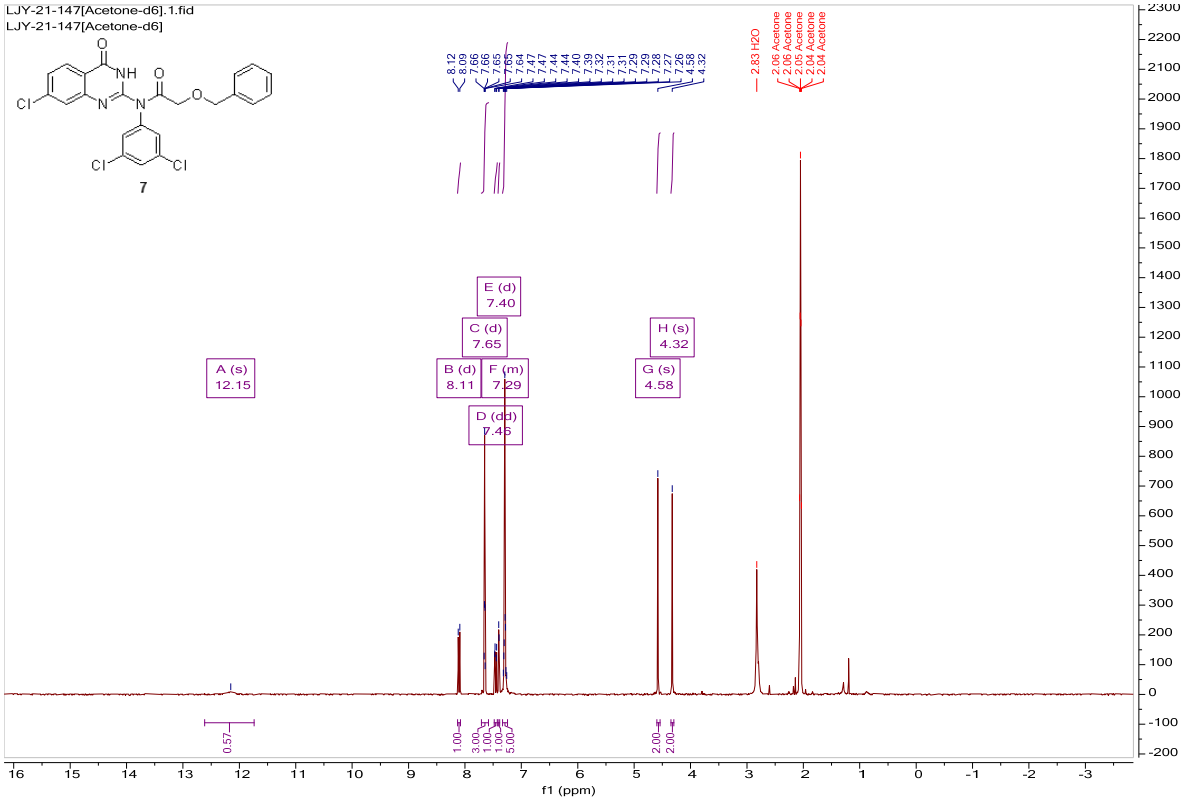
^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **6c**



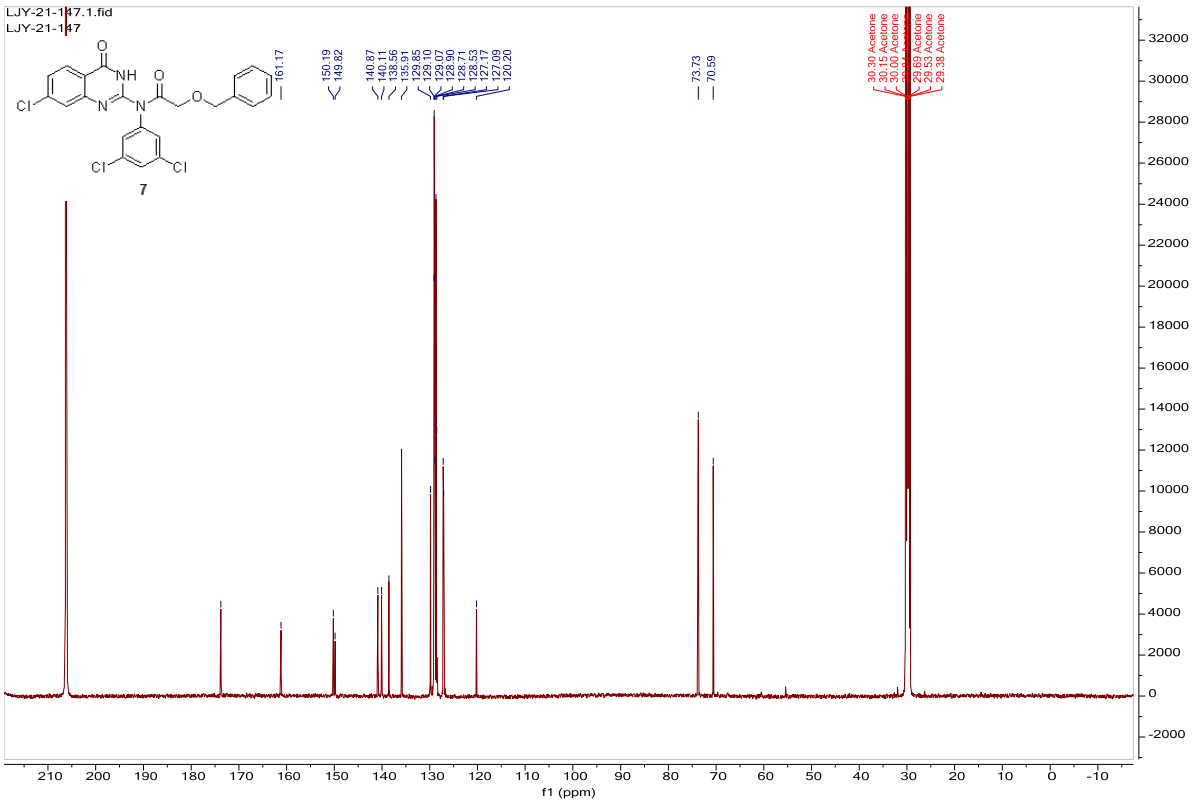
^{1}H NMR spectrum (500 MHz, DMSO-*d*$_6$) of **6d**



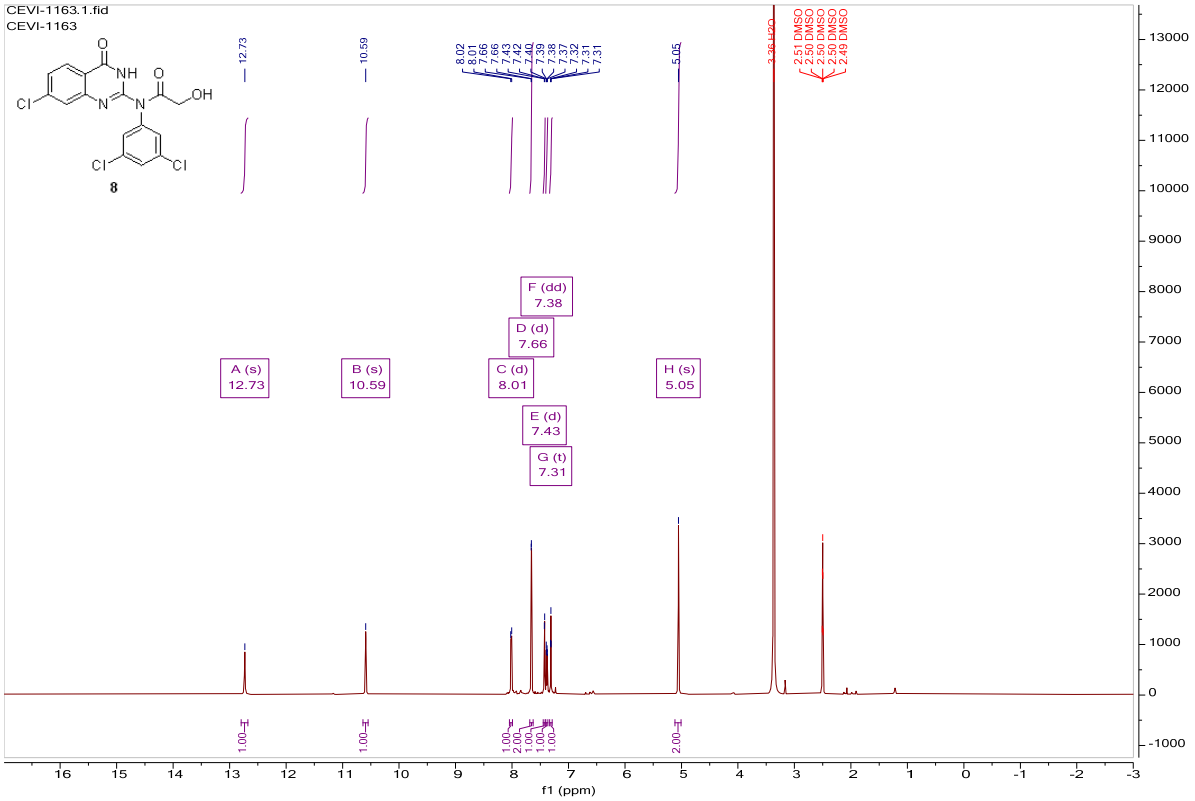
^{13}C NMR spectrum (125 MHz, DMSO-*d*$_6$) of **6d**



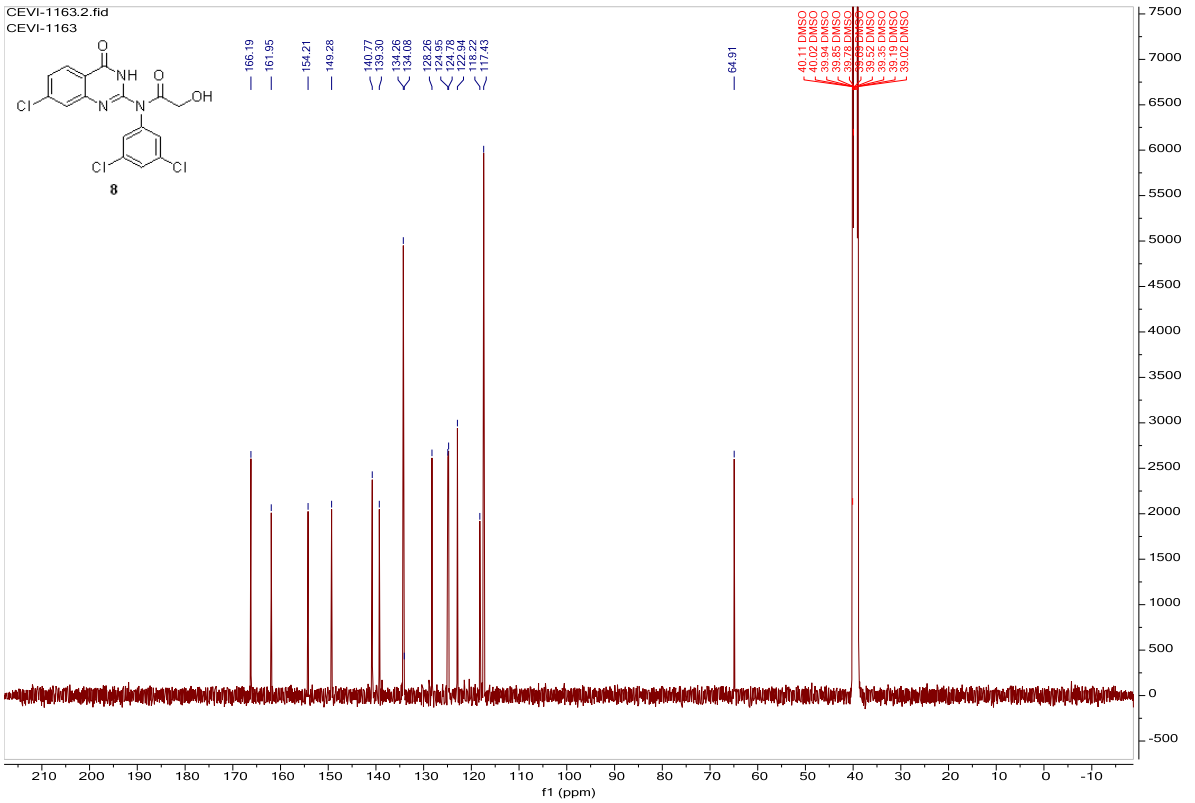
^{1}H NMR spectrum (300 MHz, Acetone-d_6) of **7**



^{13}C NMR spectrum (125 MHz, Acetone-d_6) of **7**



^{1}H NMR spectrum (500 MHz, DMSO-d_6) of **8**



^{13}C NMR spectrum (125 MHz, DMSO-d_6) of **8**

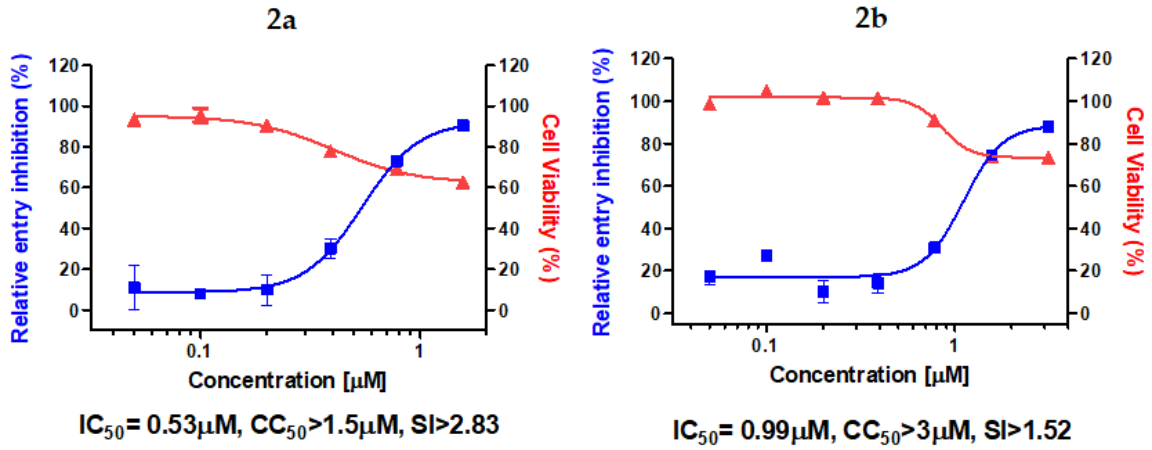


Figure 1S. Concentration-response inhibition curves of **2a** and **2b** against SARS-CoV-2 pseudovirus