

ELECTRONIC SUPPORTING INFORMATION

Metal-Free Eliminative C-H Arylthiolation of 2*H*-Imidazole N-oxides with Thiophenols

Egor. A. Nikiforov,¹ Nailya F. Vaskina,¹ Timofey D. Moseev,¹

Mikhail V. Varaksin,^{1,2*} Valery N. Charushin,^{1,2} and Oleg N. Chupakhin^{1,2}

¹ Ural Federal University, 19 Mira street, Ekaterinburg, 620002, Russia

² I.Ya. Postovsky Institute of Organic Synthesis, Ural Branch of the Russian Academy of Sciences

22 S. Kovalevskaya street, Ekaterinburg, 620990, Russia

Corresponding author: m.v.varaksin@urfu.ru

Table of contents

1. Copies of NMR spectra.....	S2
-------------------------------	----

1. Copies of NMR spectra

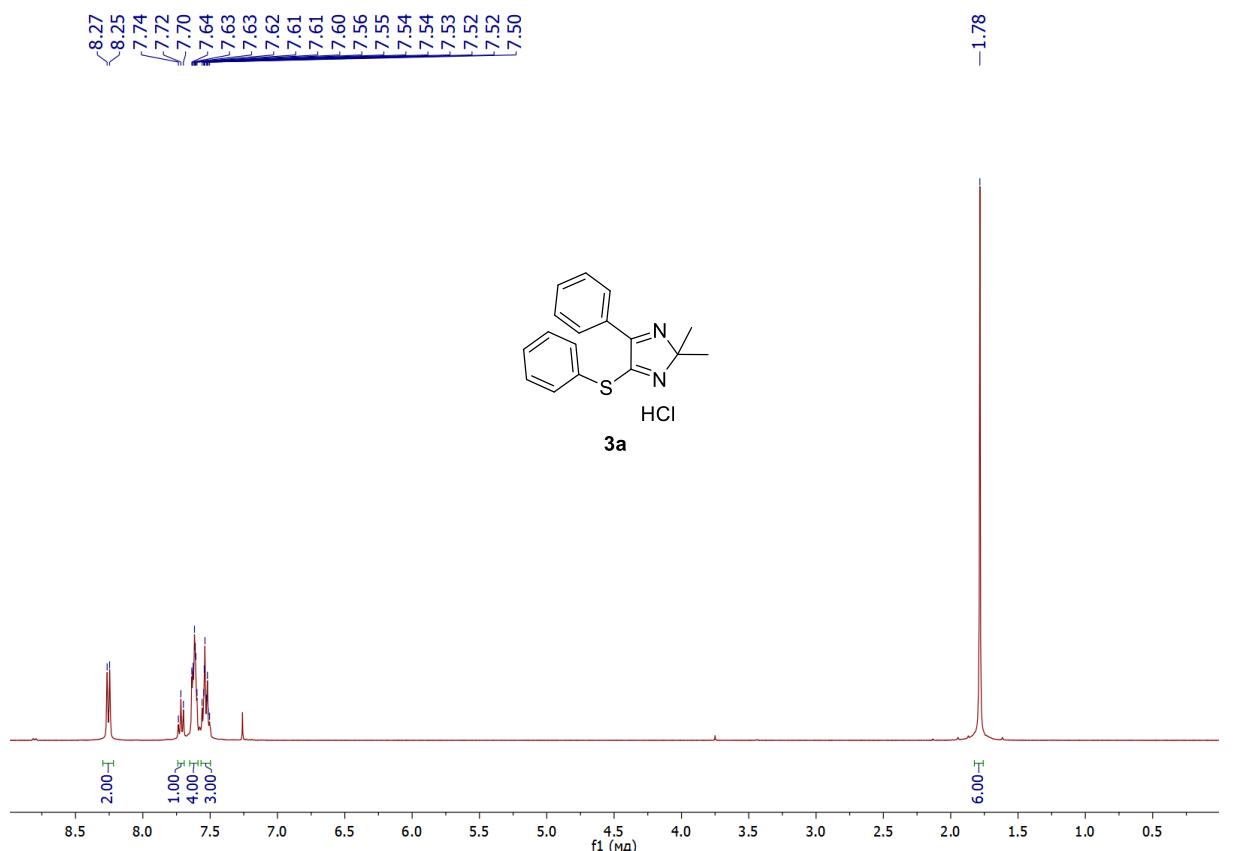


Figure S1. ^1H NMR spectrum (400 MHz, CDCl_3) of compound **3a**

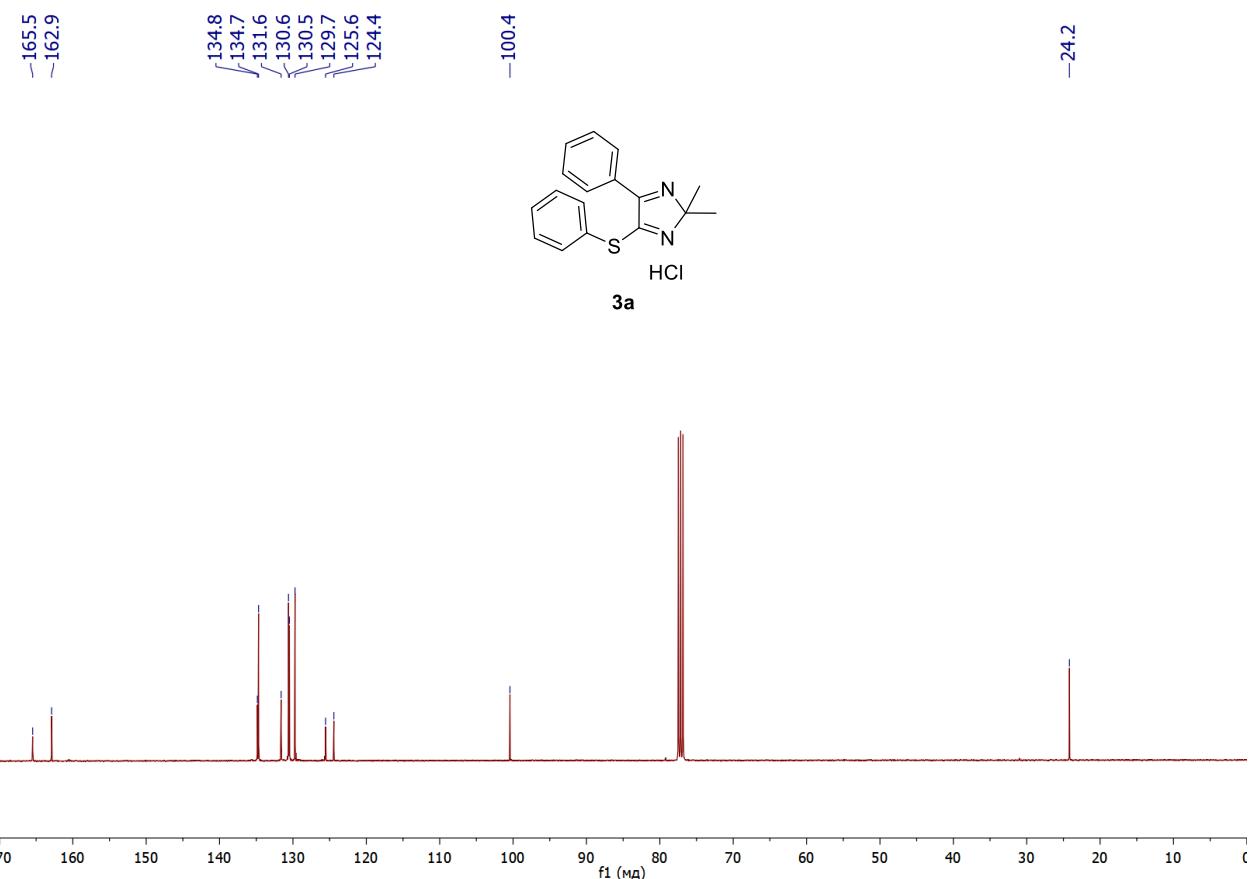


Figure S2. ^{13}C { ^1H } NMR spectrum (101 MHz, CDCl_3) of compound **3a**

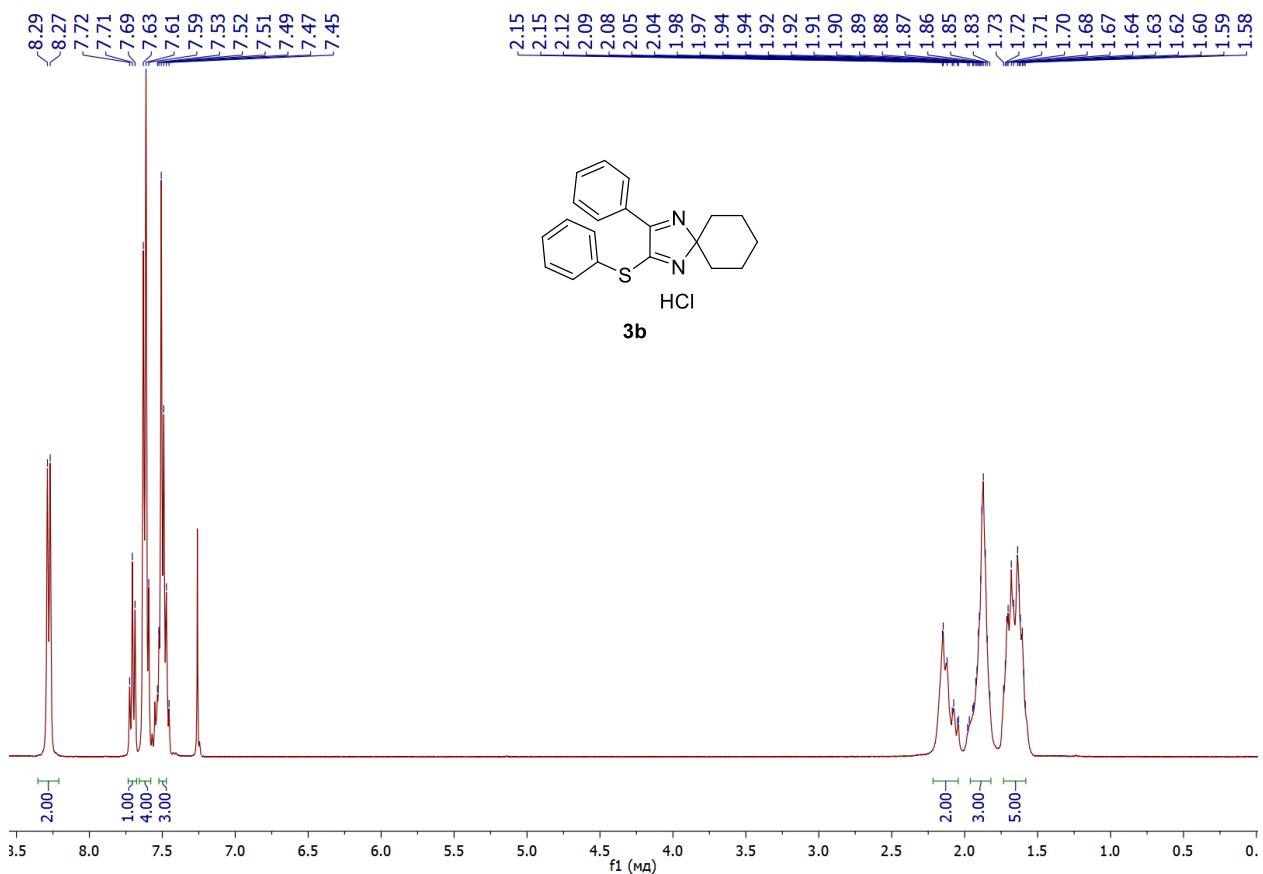


Figure S3. ^1H NMR spectrum (400 MHz, CDCl_3) of compound **3b**

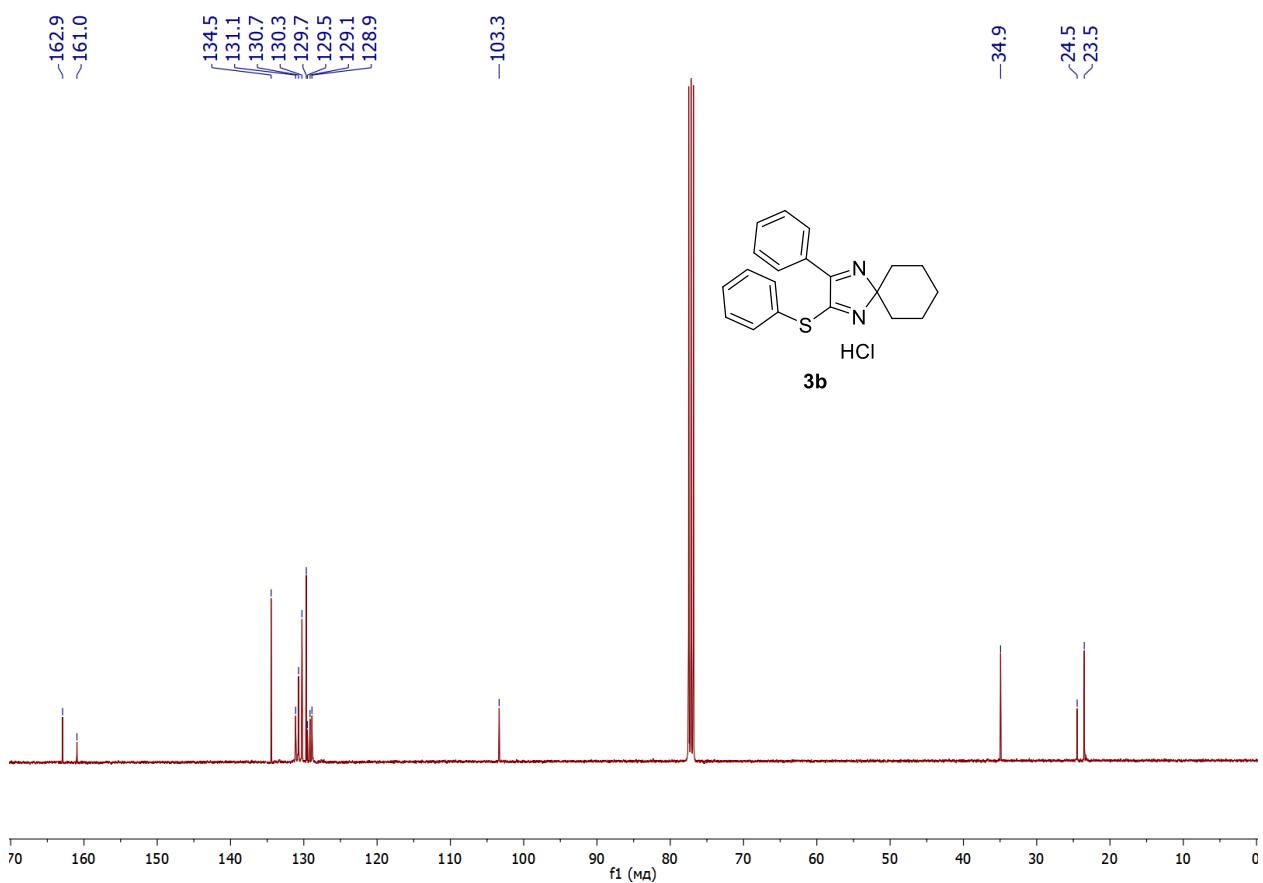


Figure S4. $^{13}\text{C}\{^1\text{H}\}$ NMR spectrum (101 MHz, CDCl_3) of compound **3b**

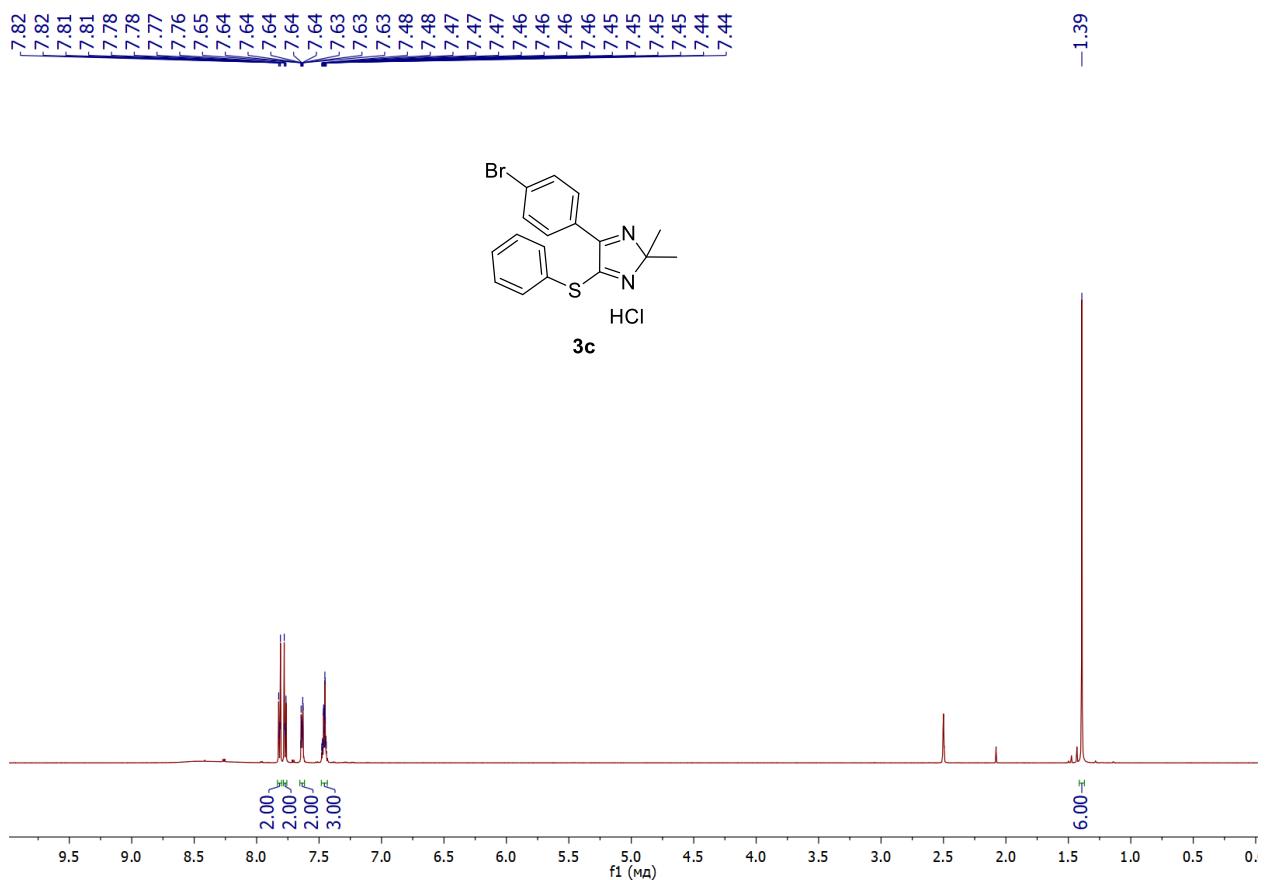


Figure S5. ^1H NMR spectrum (600 MHz, DMSO- d_6) of compound **3c**

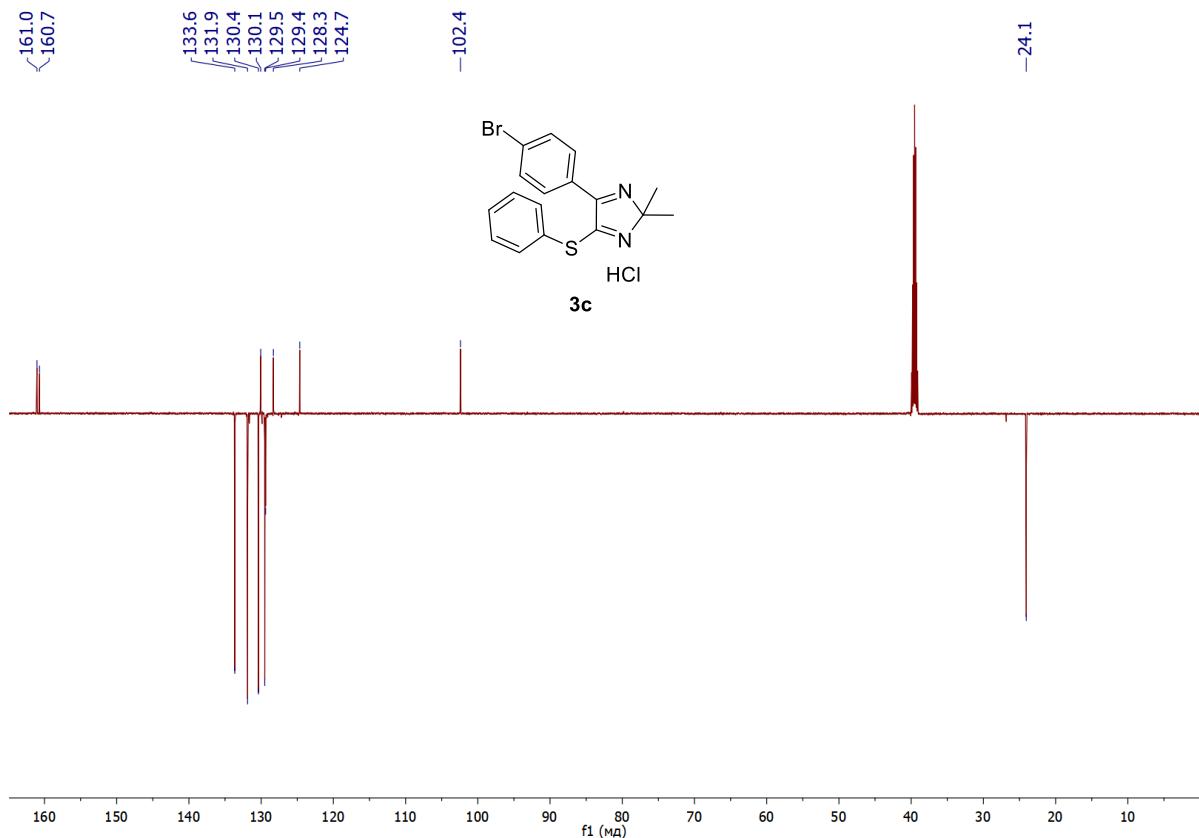


Figure S6. ^{13}C NMR spectrum (151 MHz, DMSO- d_6) of compound **3c**

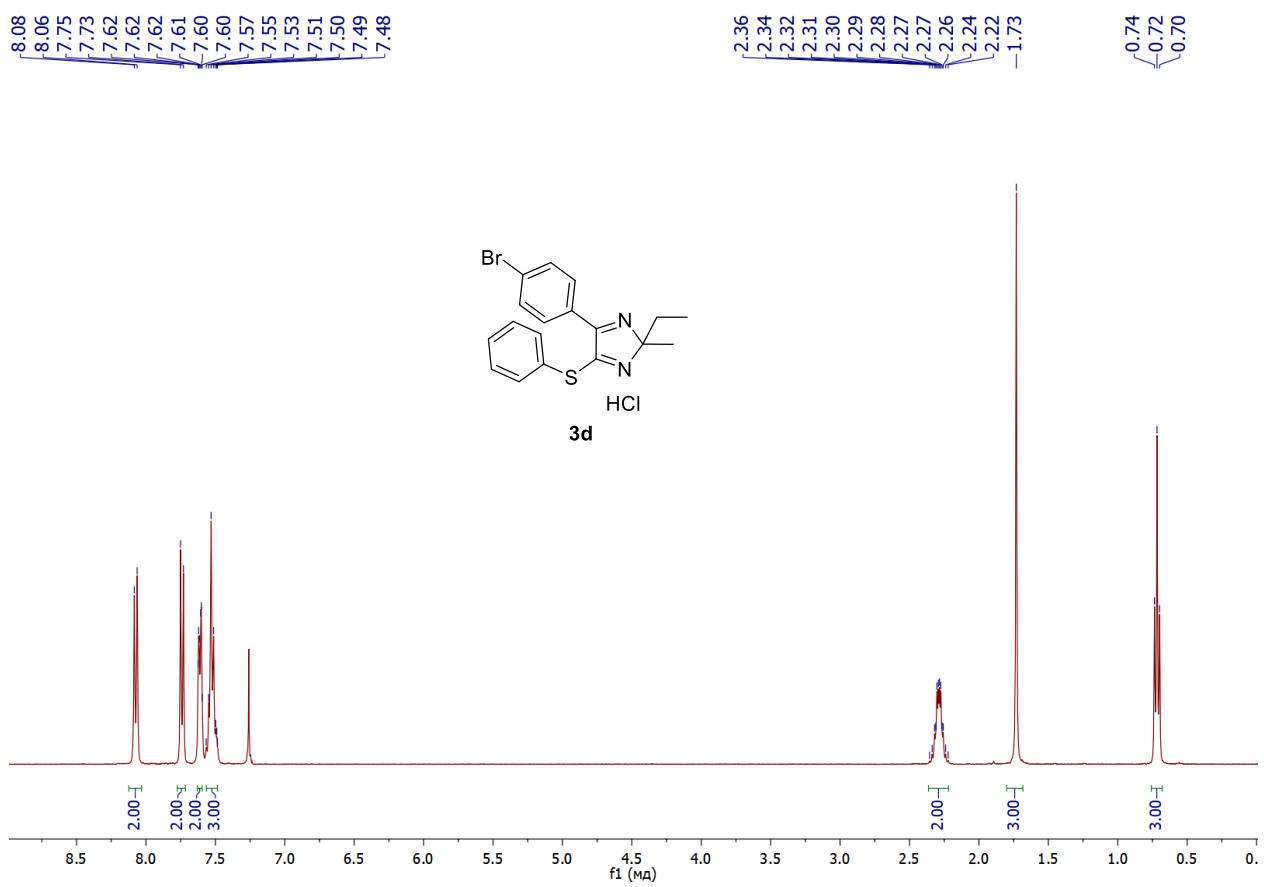


Figure S7. ^1H NMR spectrum (400 MHz, CDCl_3) of compound **3d**

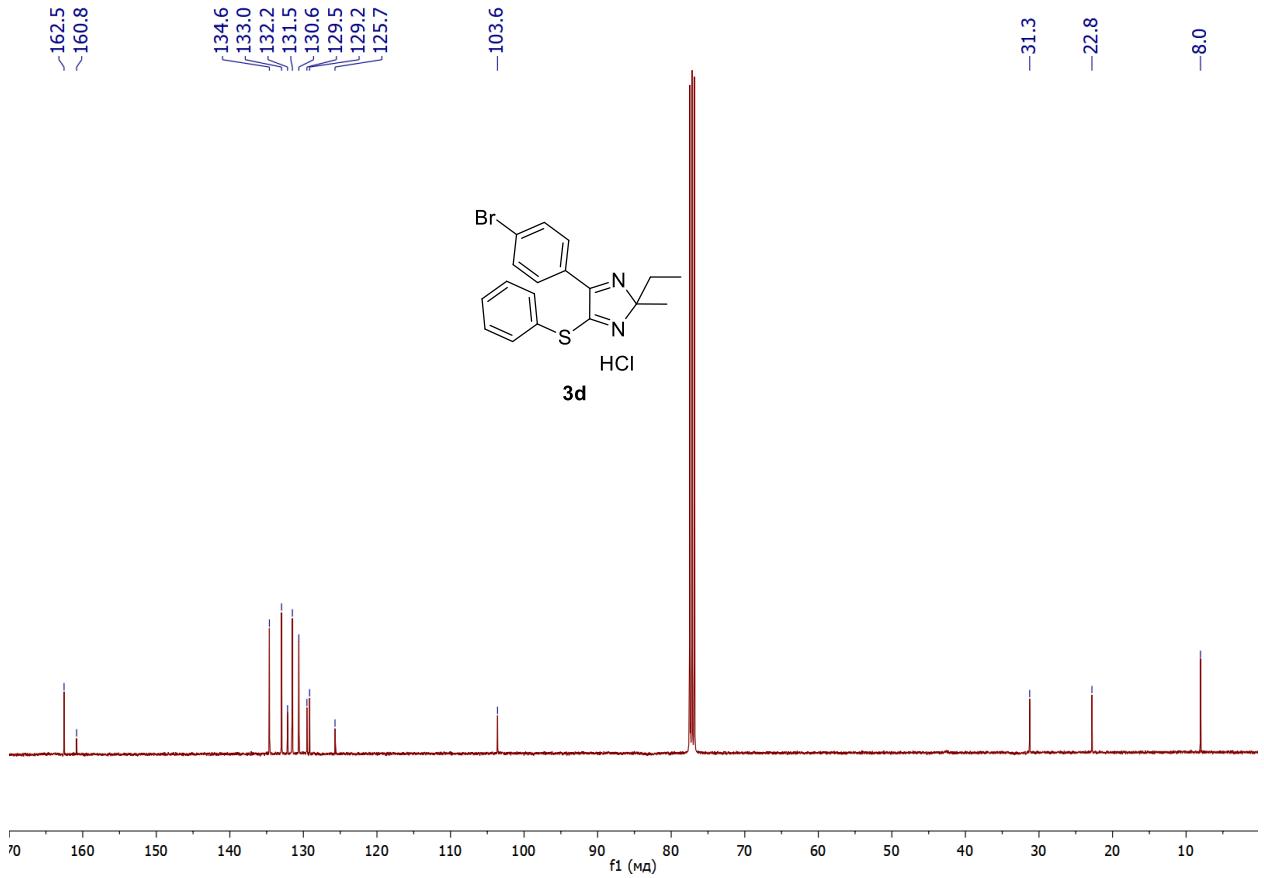


Figure S8. ^{13}C NMR spectrum (101 MHz, CDCl_3) of compound **3d**

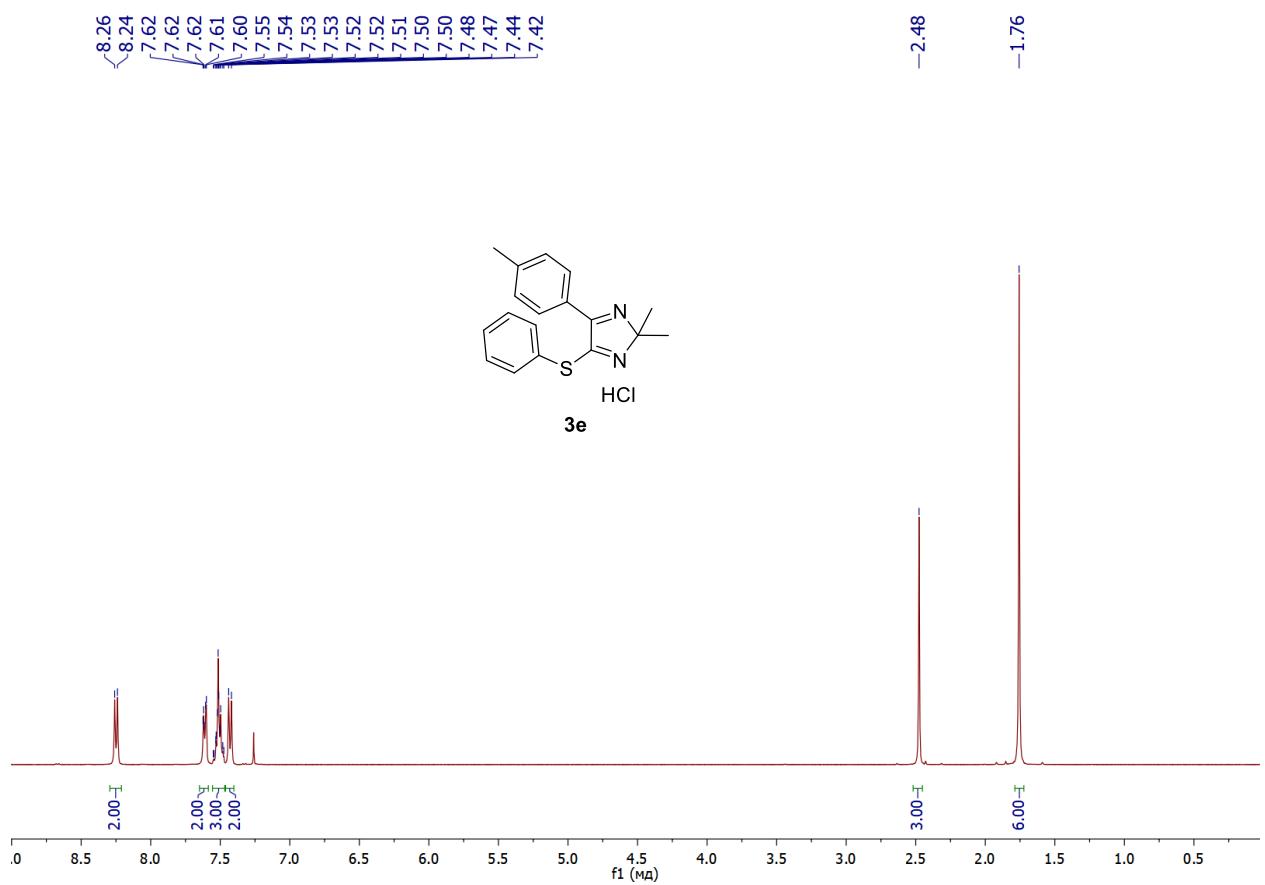


Figure S9. ^1H NMR spectrum (400 MHz, CDCl_3) of compound **3e**

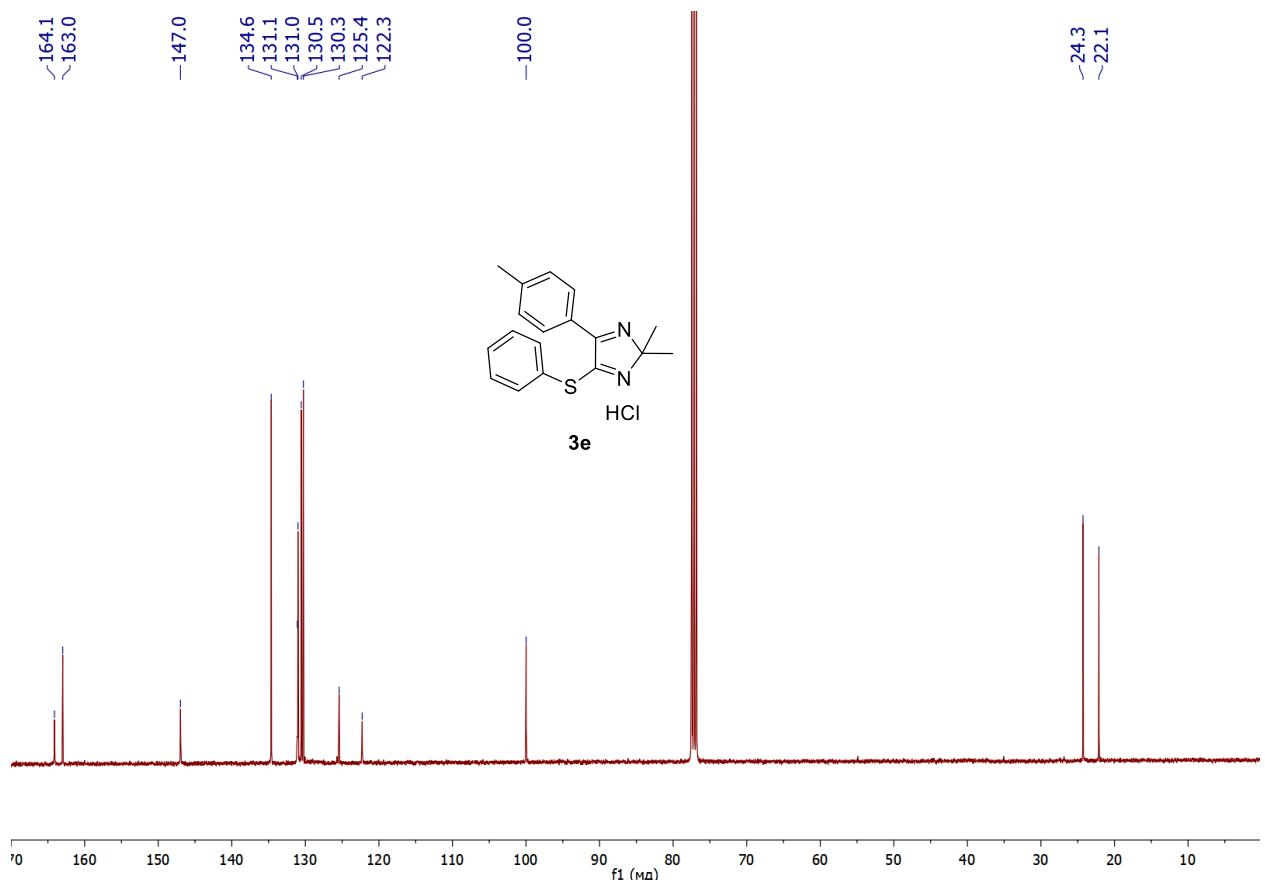


Figure S10. ^{13}C NMR spectrum (101 MHz, CDCl_3) of compound **3e**

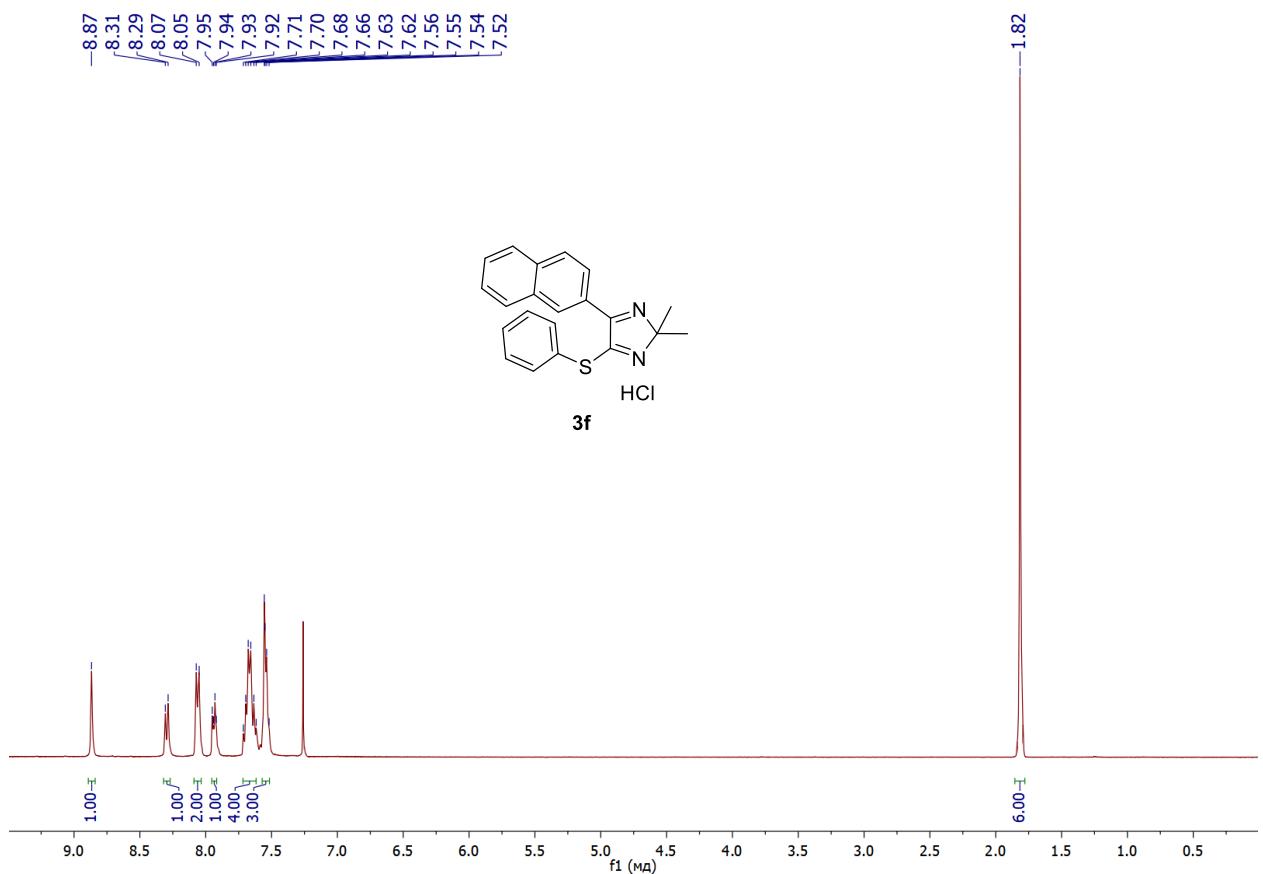


Figure S11. ^1H NMR spectrum (400 MHz, CDCl_3) of compound **3f**

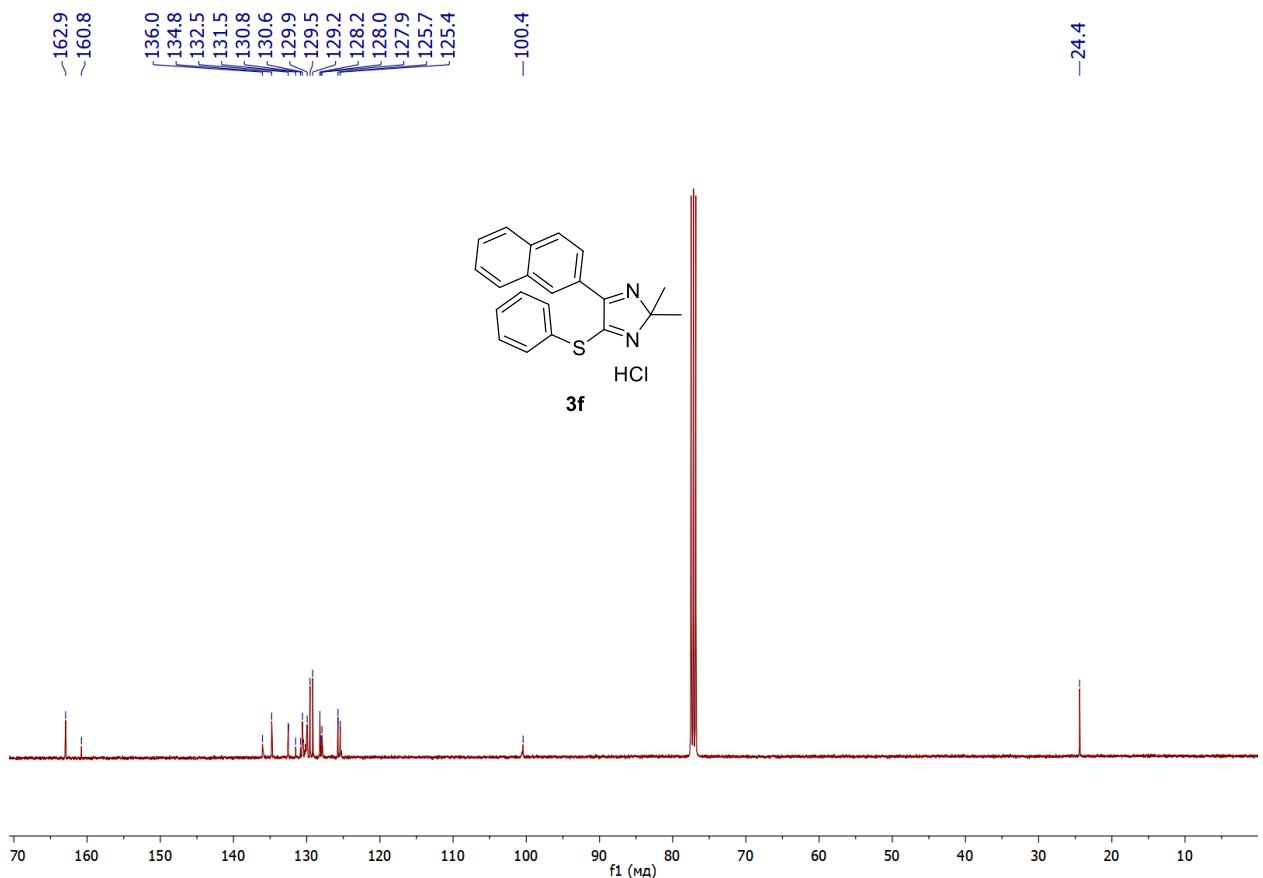


Figure S12. ^{13}C NMR spectrum (101 MHz, CDCl_3) of compound **3f**

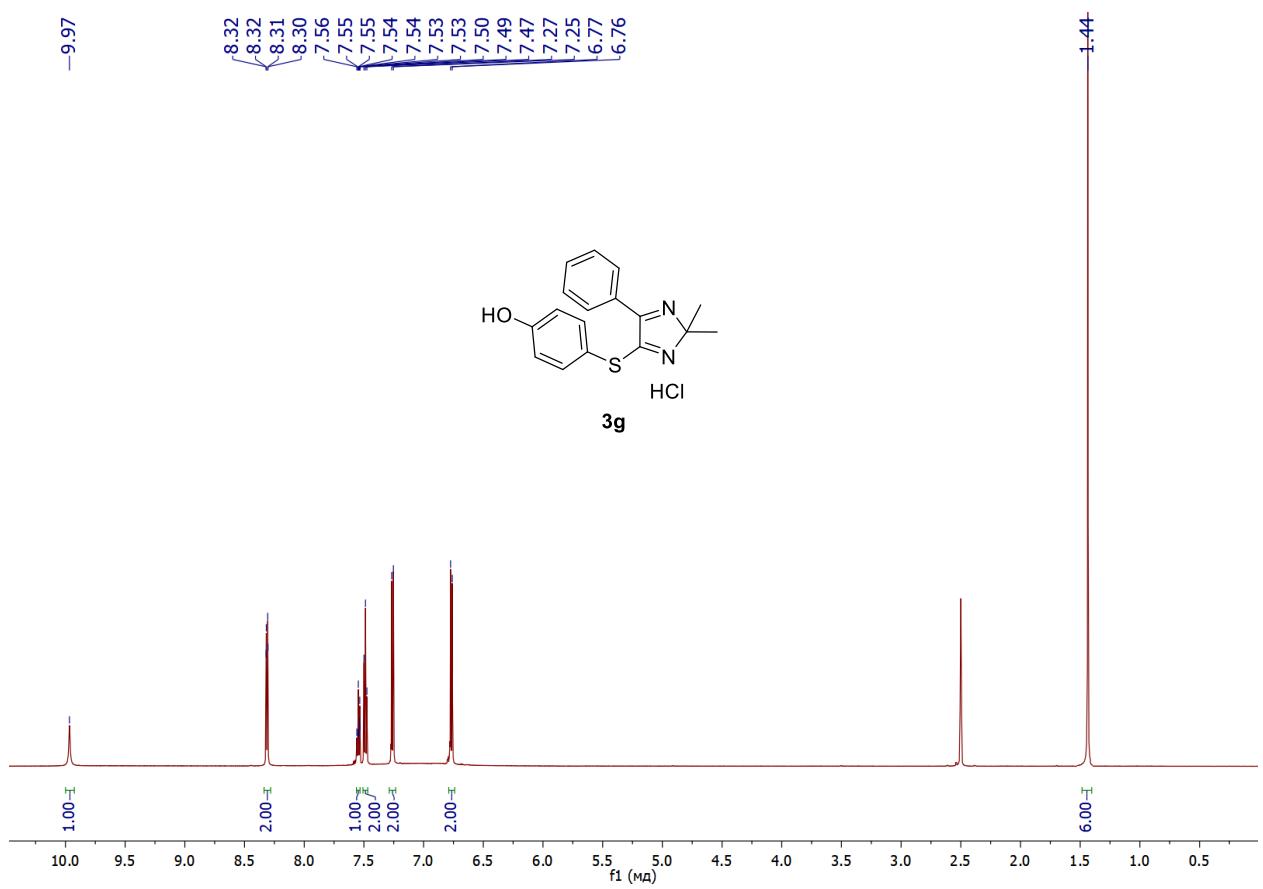


Figure S13. ^1H NMR spectrum (600 MHz, DMSO-d_6) of compound **3g**

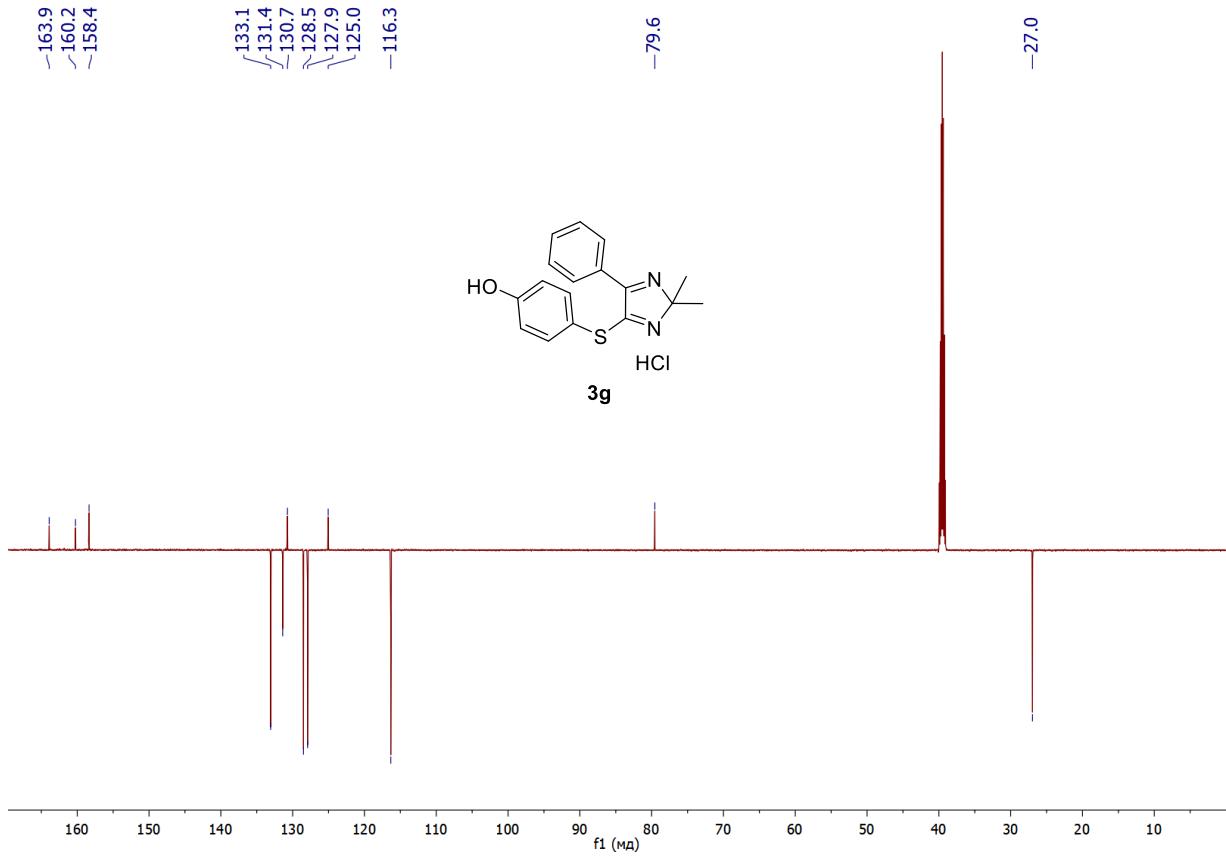


Figure S14. ^{13}C NMR spectrum (151 MHz, DMSO-d_6) of compound **3g**

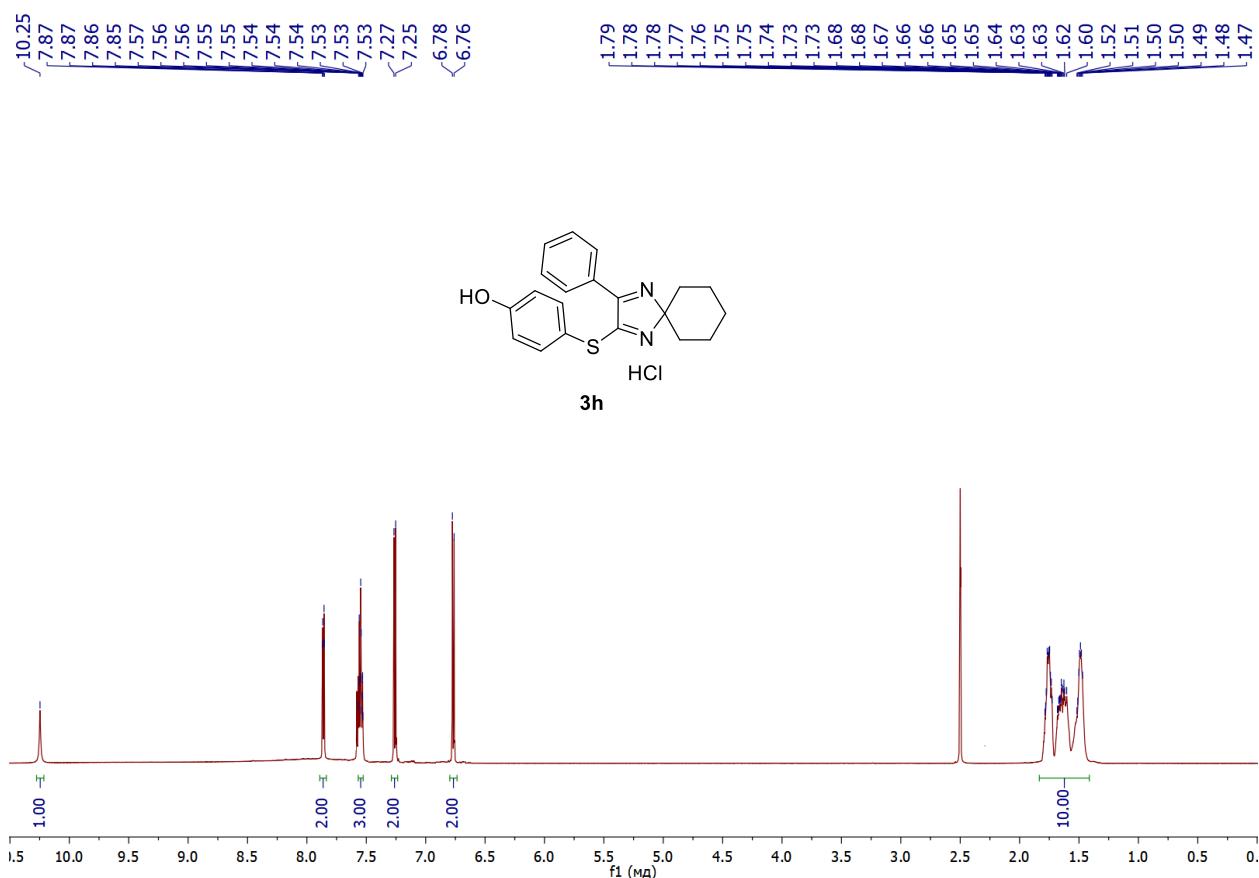


Figure S15. ^1H NMR spectrum (600 MHz, DMSO-d_6) of compound **3h**

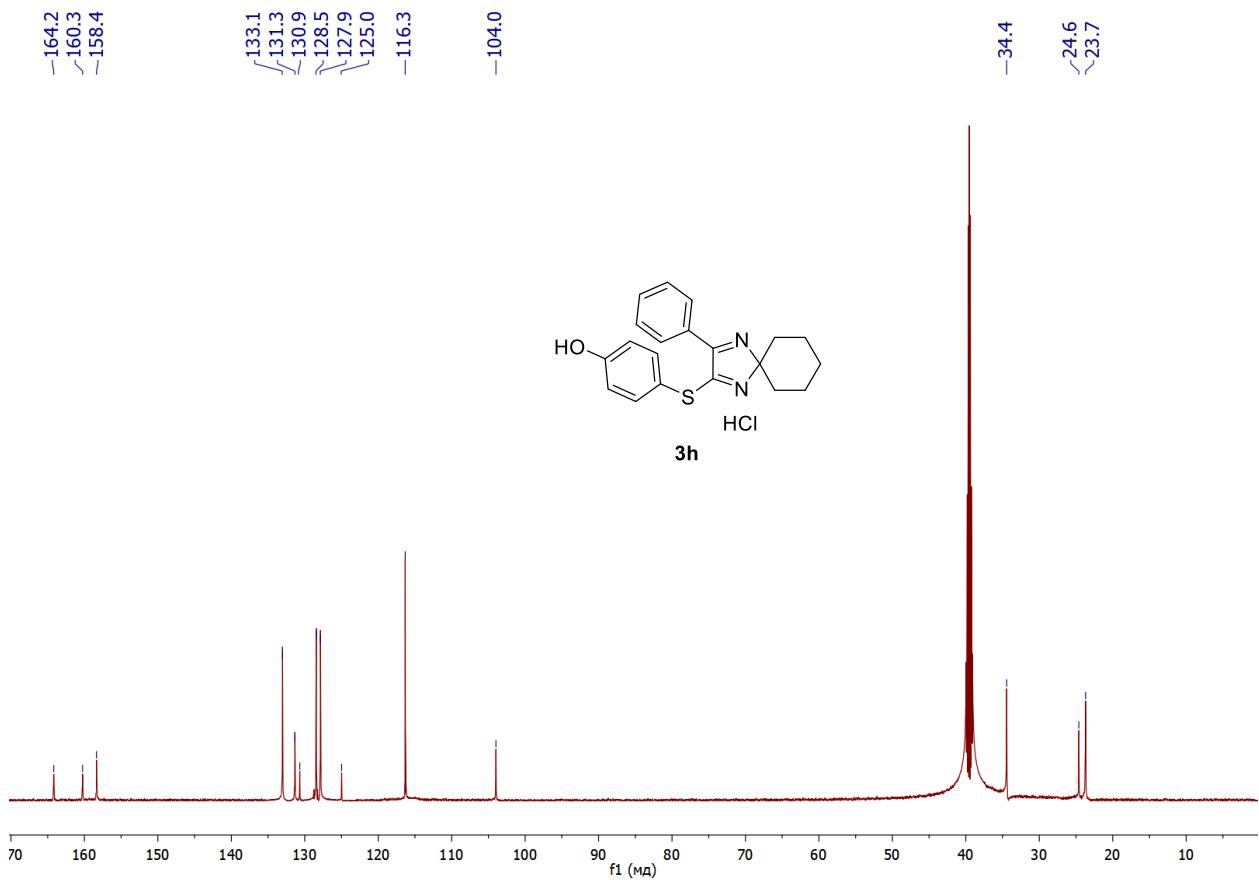


Figure S16. ^{13}C NMR spectrum (151 MHz, DMSO-d_6) of compound **3h**

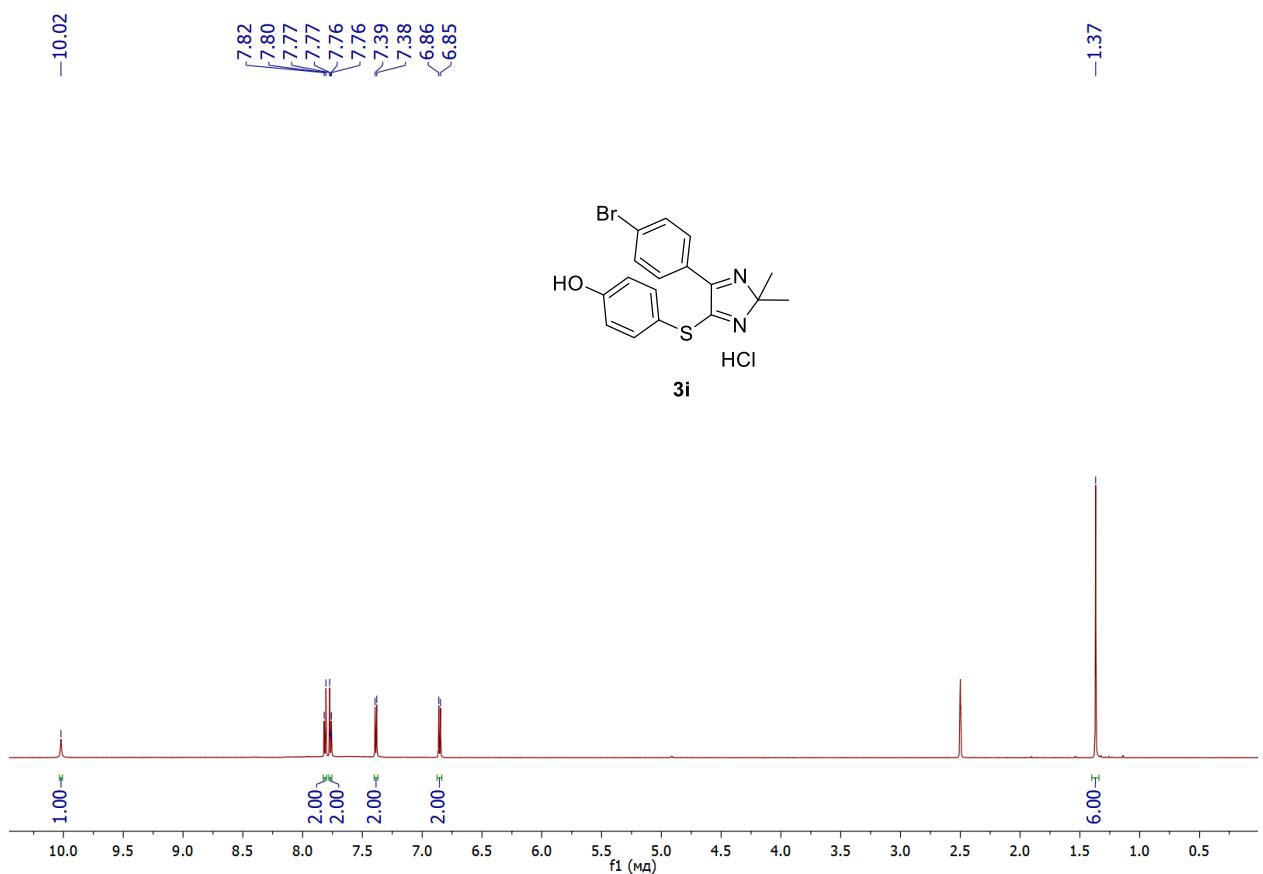


Figure S17. ^1H NMR spectrum (600 MHz, DMSO-d_6) of compound **3i**

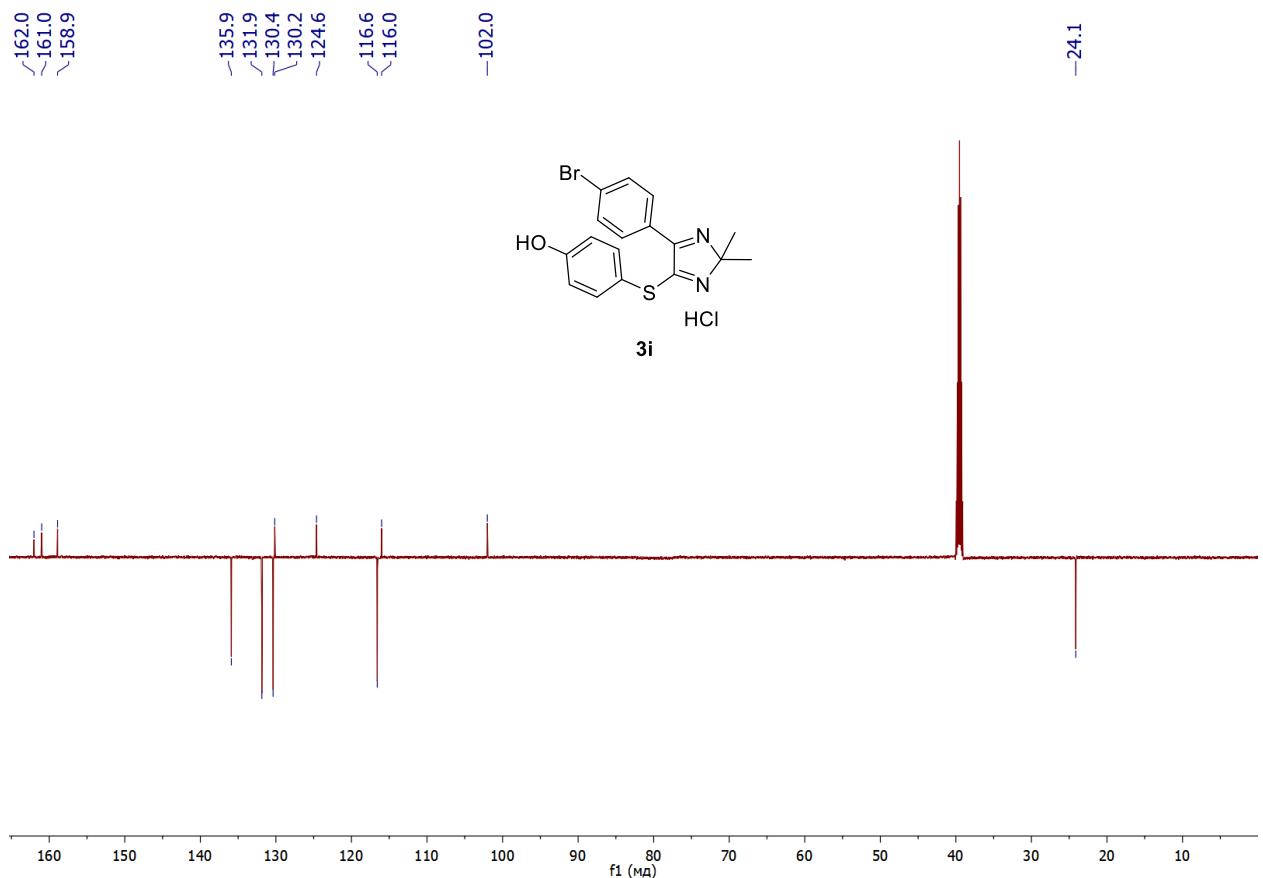


Figure S18. ^{13}C NMR spectrum (151 MHz, DMSO-d_6) of compound **3i**

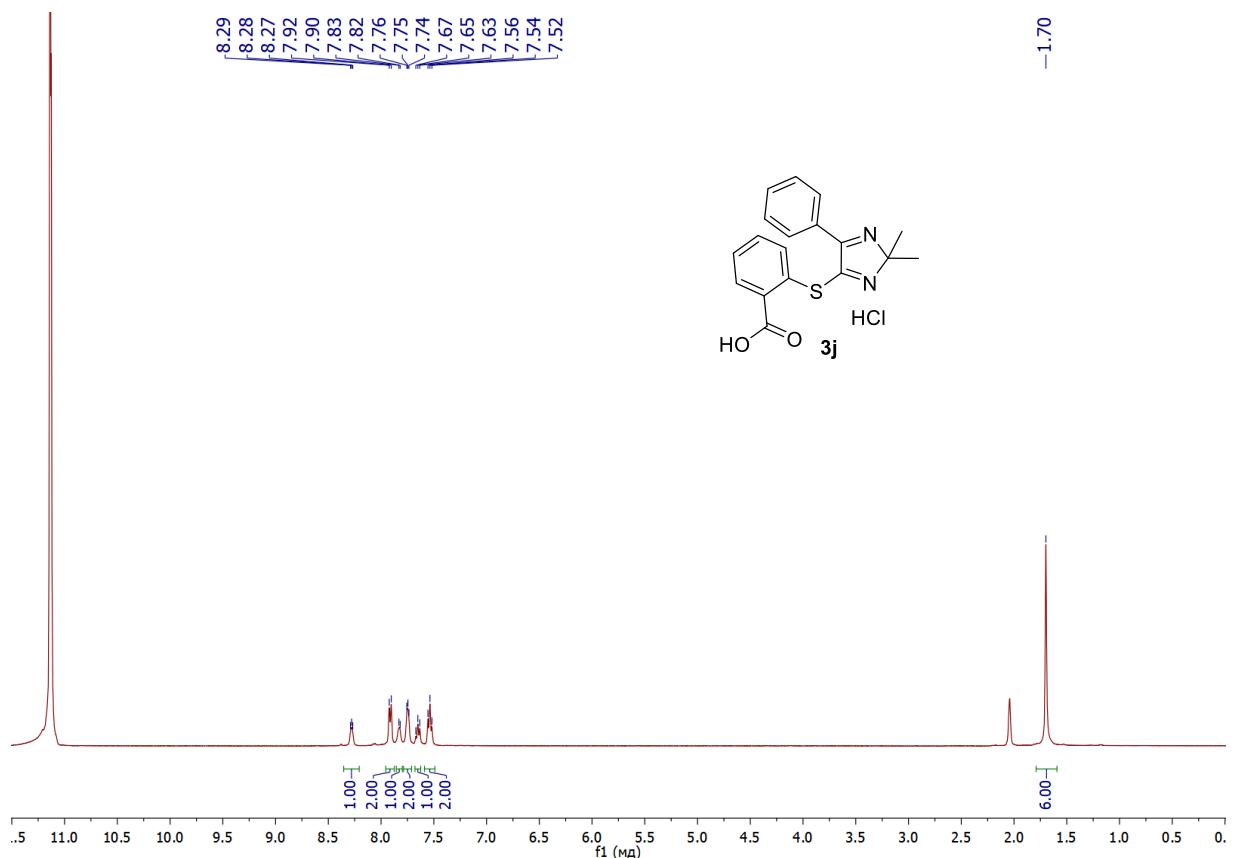


Figure S19. ¹H NMR spectrum (400 MHz, CF₃COOD + CD₃COOD) of compound **3j**

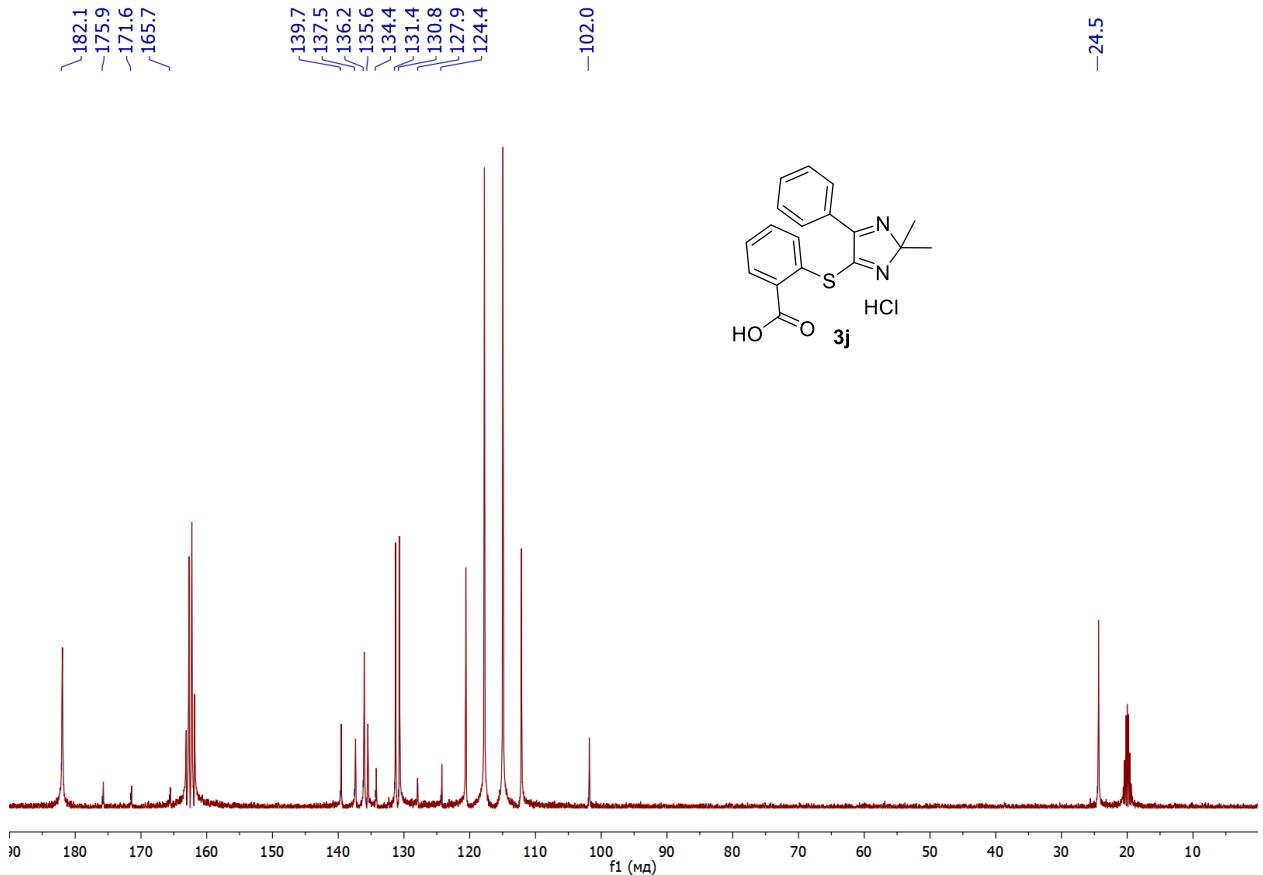


Figure S20. ¹³C NMR spectrum (101 MHz, CF₃COOD + CD₃COOD) of compound **3j**

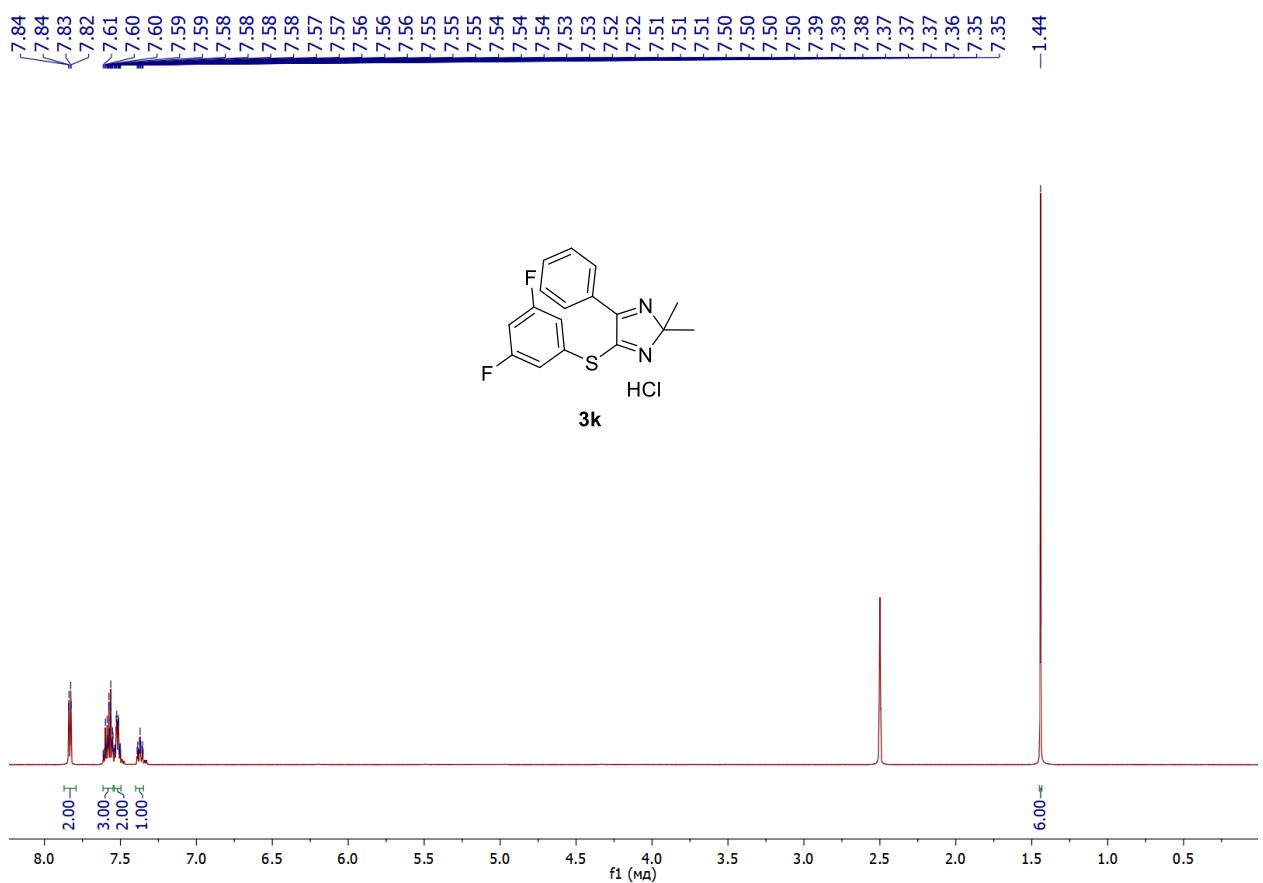


Figure S21. ^1H NMR spectrum (600 MHz, DMSO- d_6) of compound **3k**

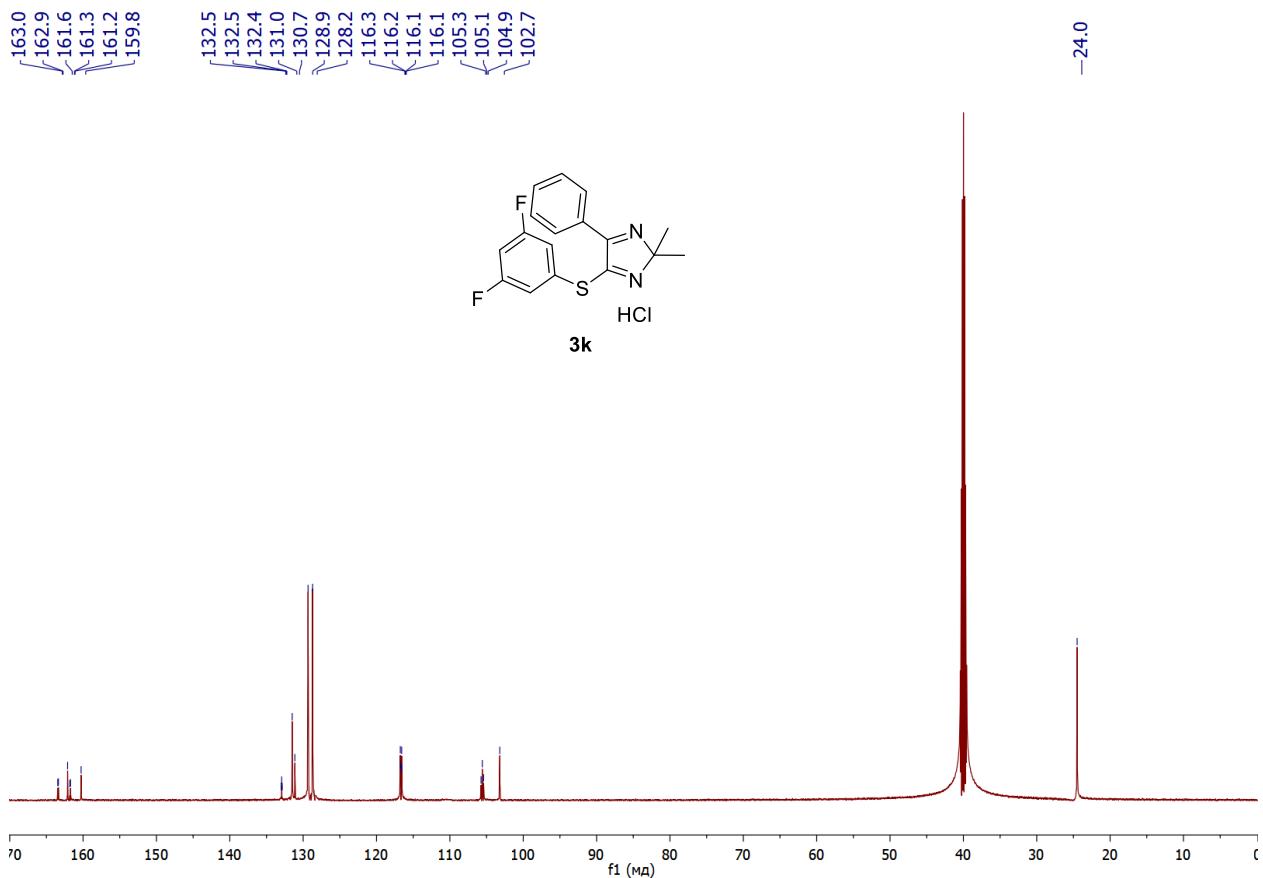


Figure S22. ^{19}F NMR spectrum (151 MHz, DMSO- d_6) of compound **3k**

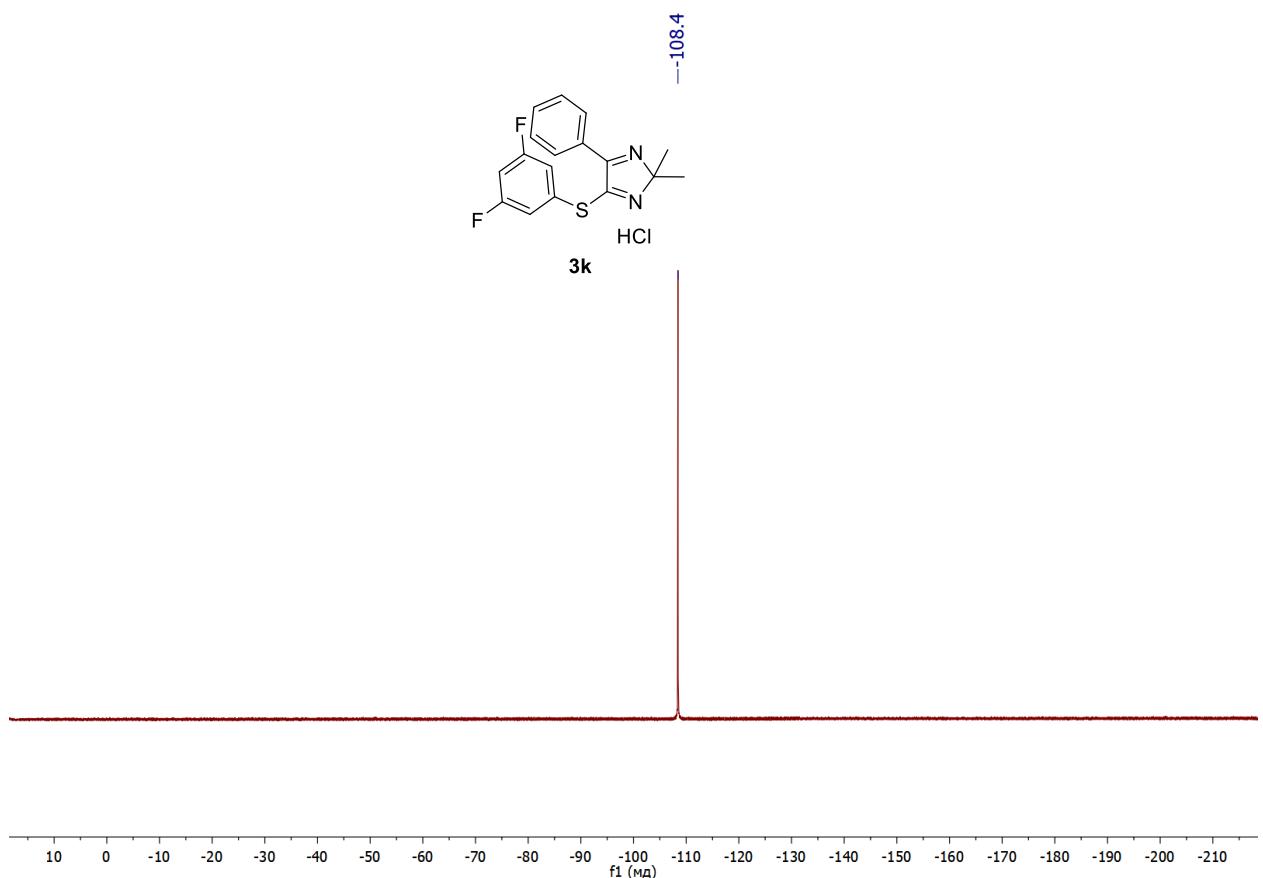


Figure S23. ^{13}C NMR spectrum (376 MHz, DMSO- d_6) of compound **3k**

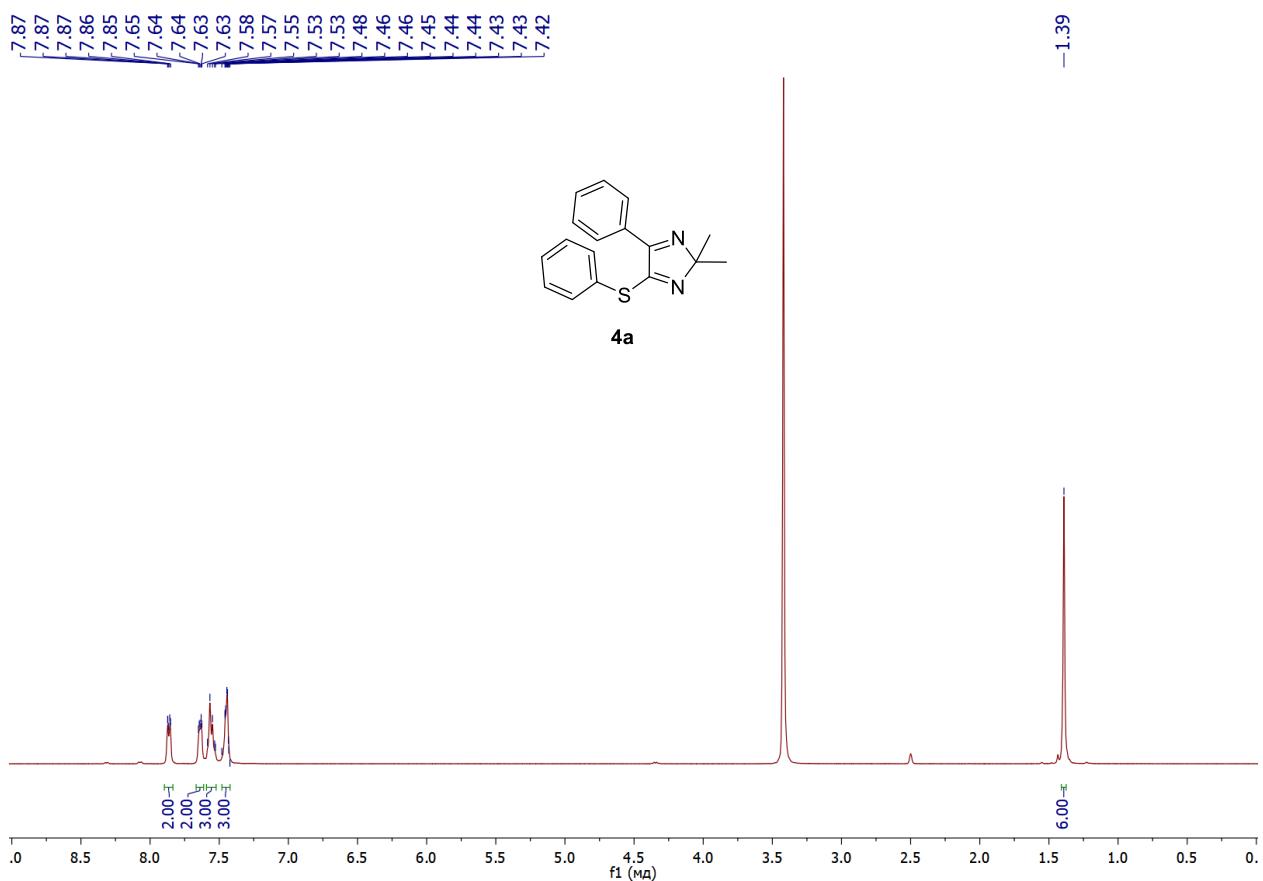


Figure S24. ^1H NMR spectrum (400 MHz, DMSO- d_6) of compound **4a**

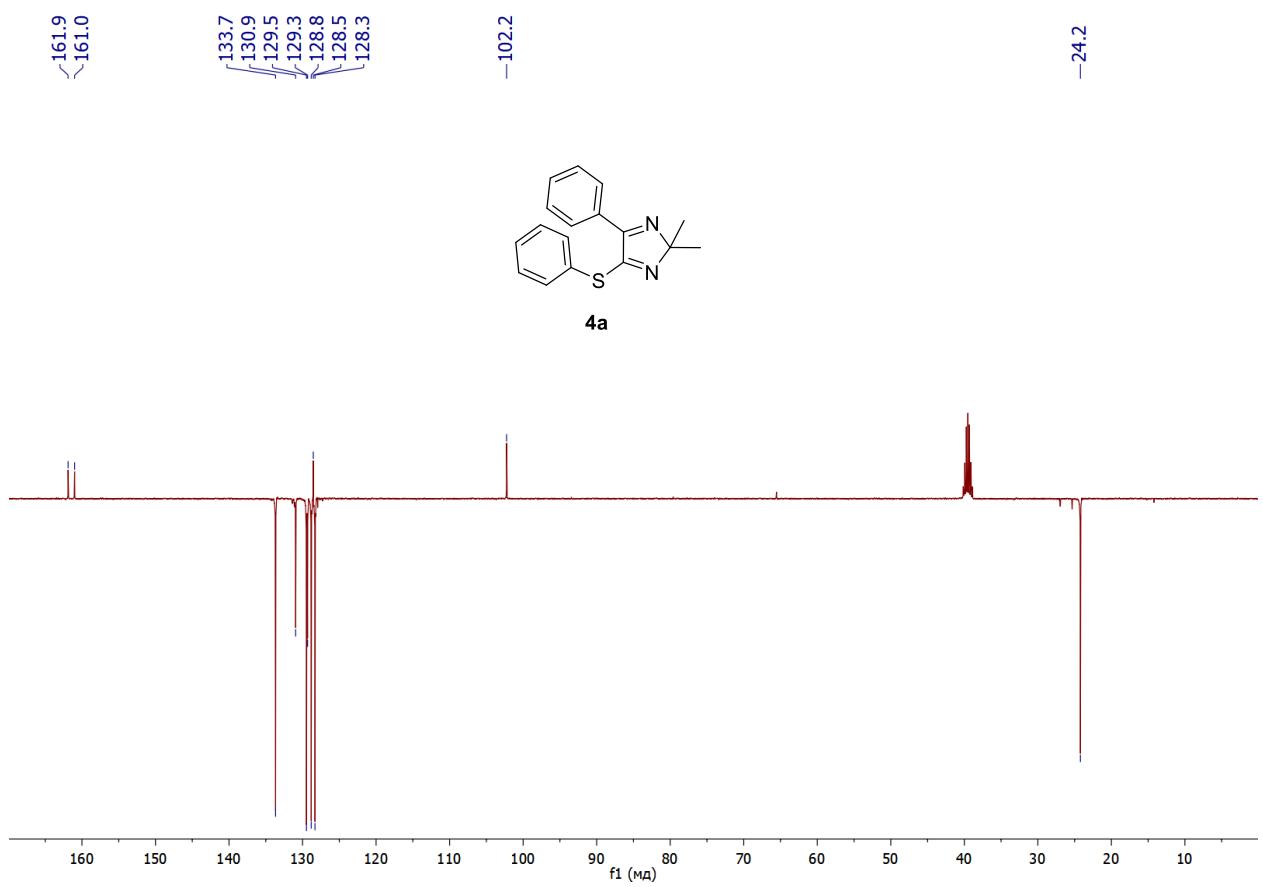


Figure S25. ^{13}C NMR spectrum (101 MHz, DMSO-d₆) of compound **4a**

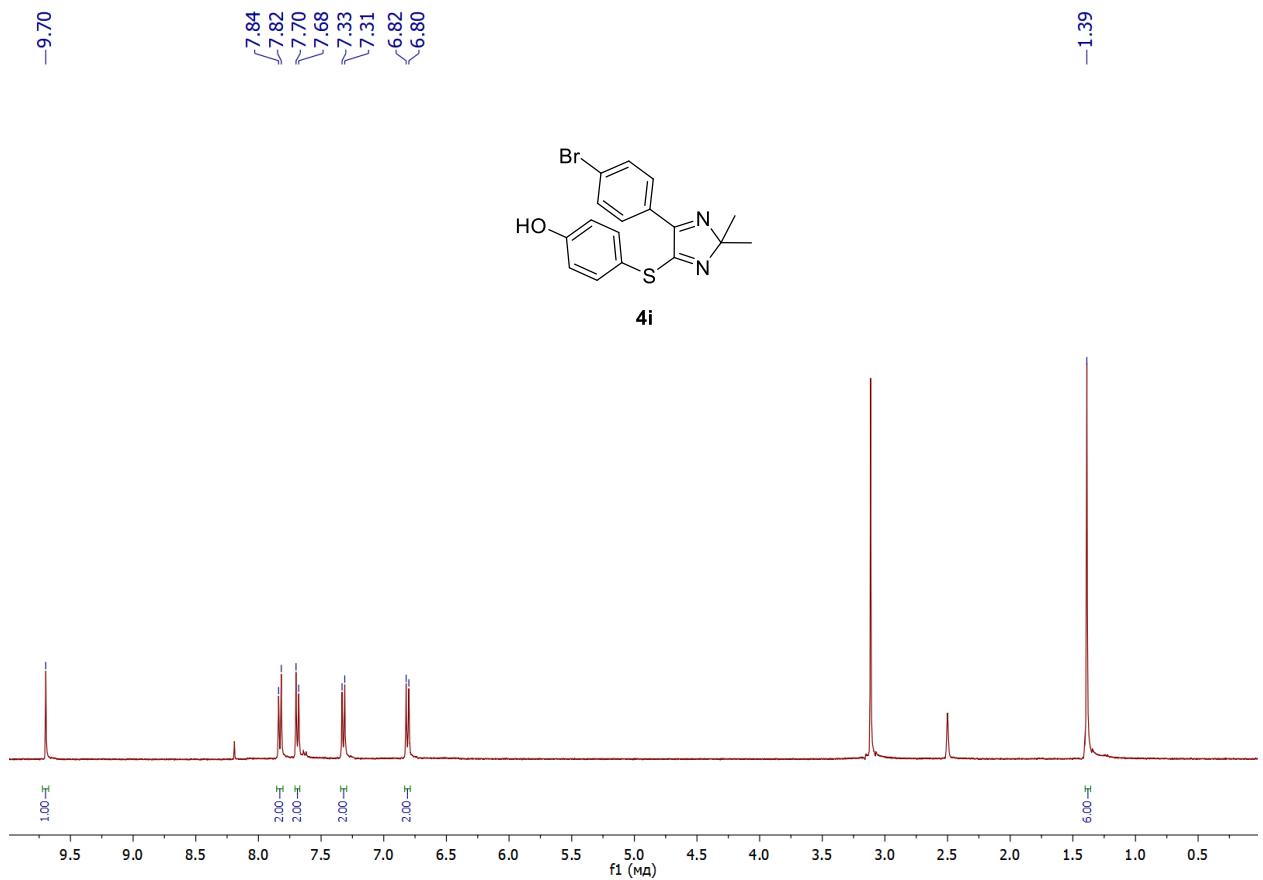


Figure S26. ^1H NMR spectrum (400 MHz, DMSO-d₆) of compound **4i**

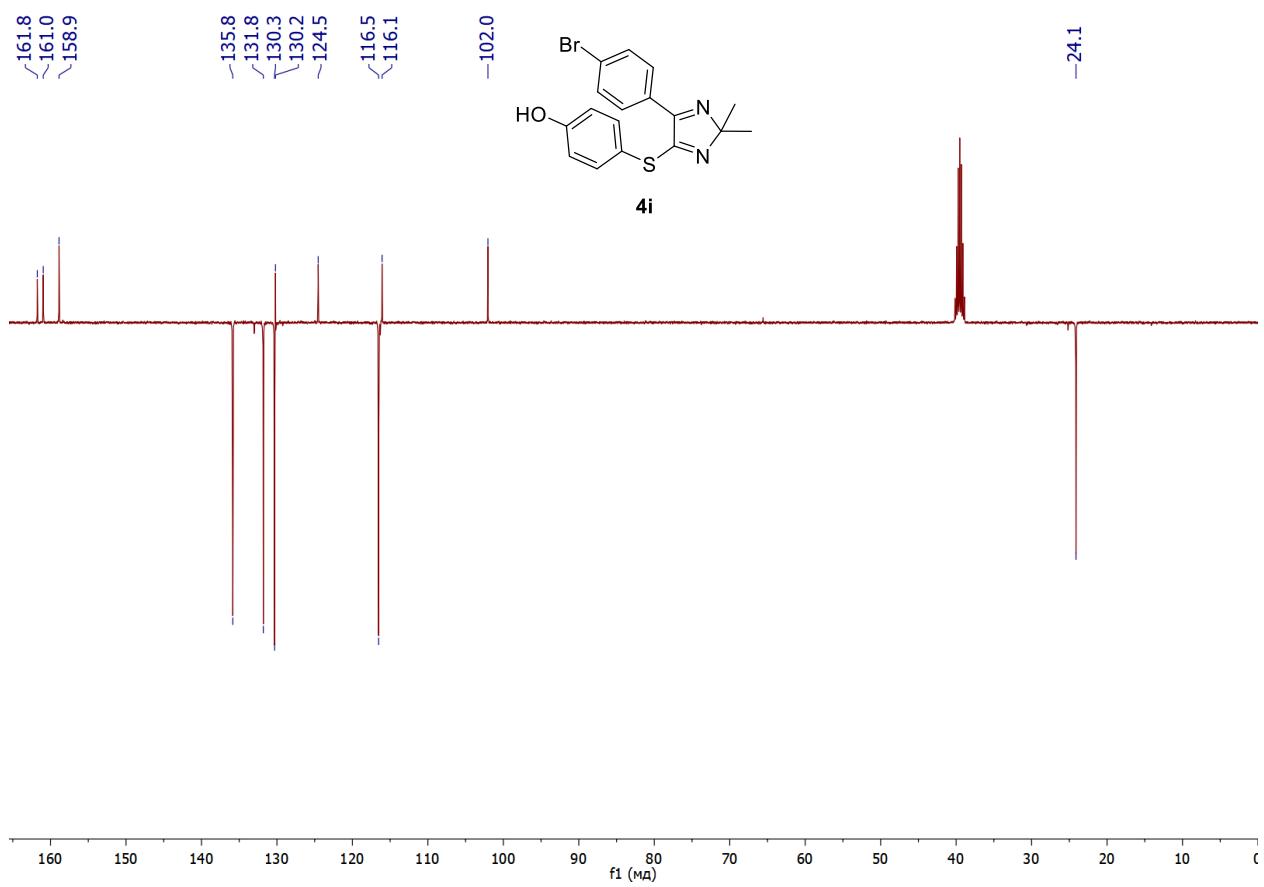


Figure S27. ^{13}C NMR spectrum (101 MHz, DMSO-d₆) of compound **4i**

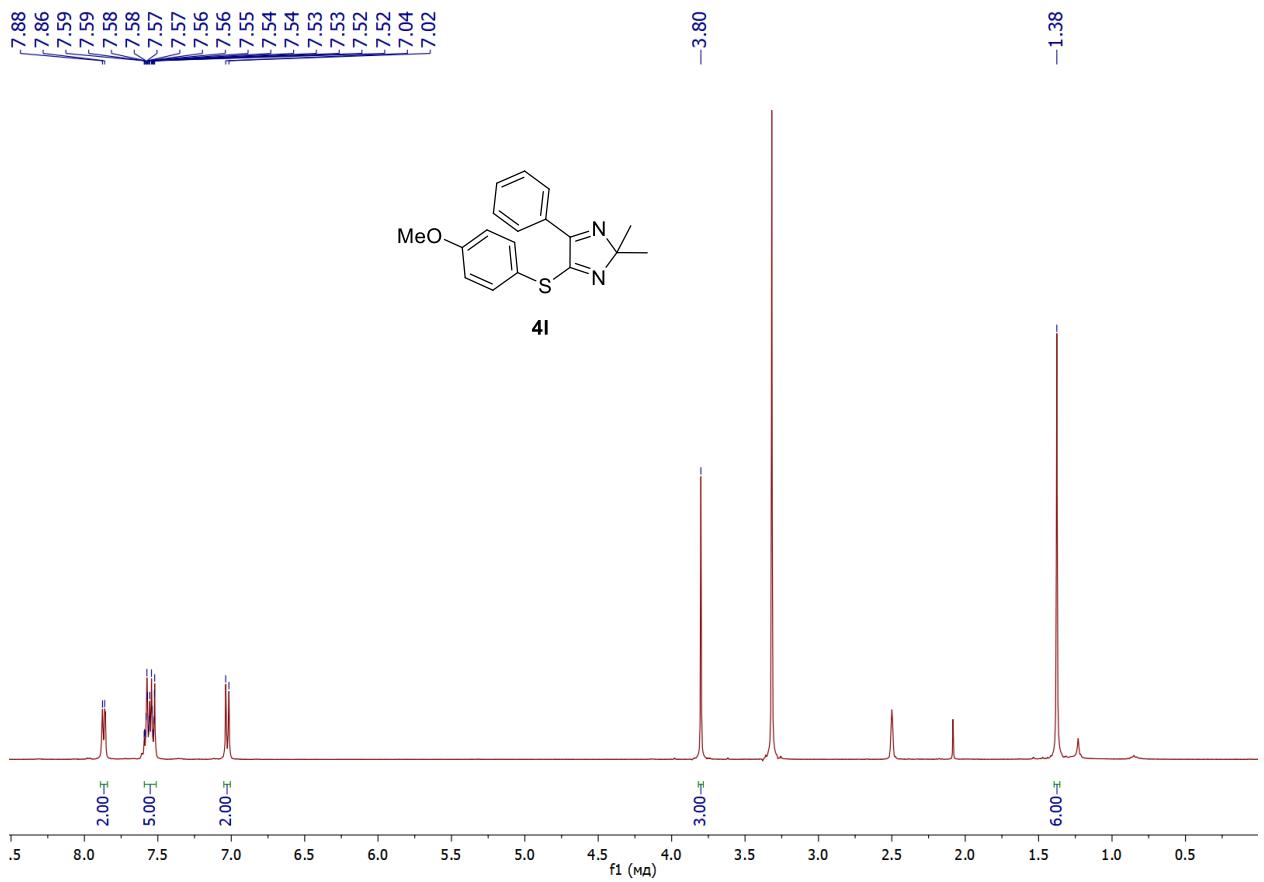


Figure S28. ^1H NMR spectrum (400 MHz, DMSO-d₆) of compound **4l**

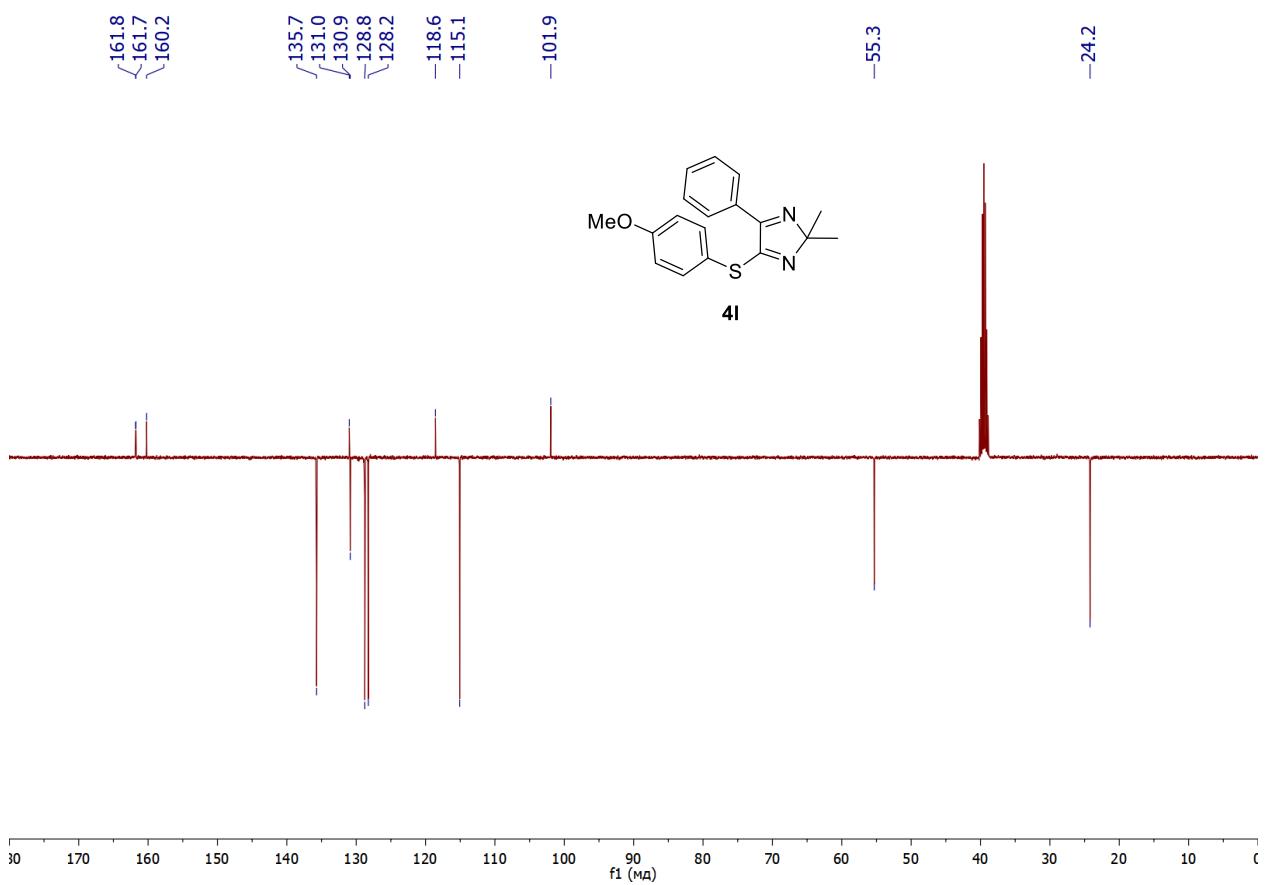


Figure S29. ^{13}C NMR spectrum (101 MHz, DMSO-d₆) of compound **4l**

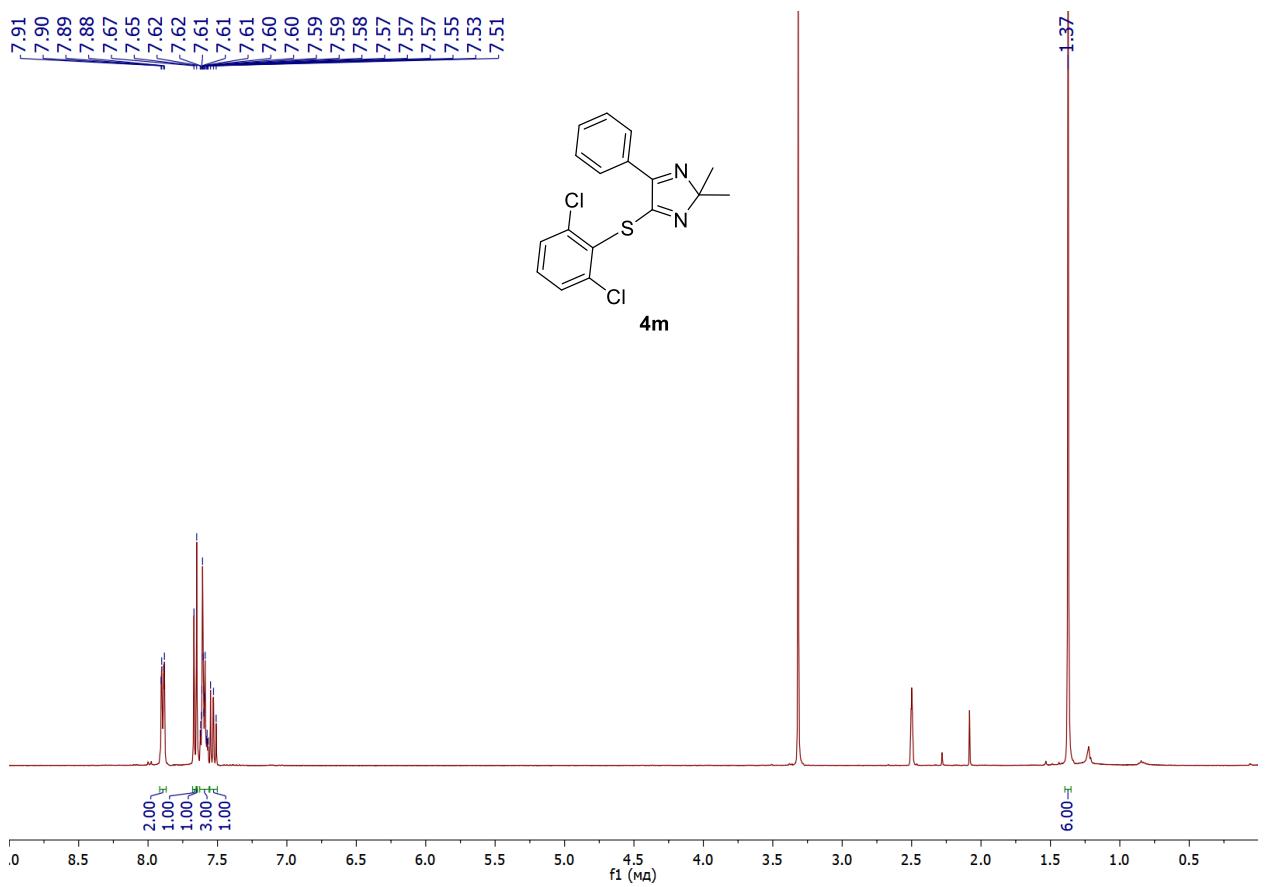


Figure S30. ^1H NMR spectrum (400 MHz, DMSO-d₆) of compound **4m**

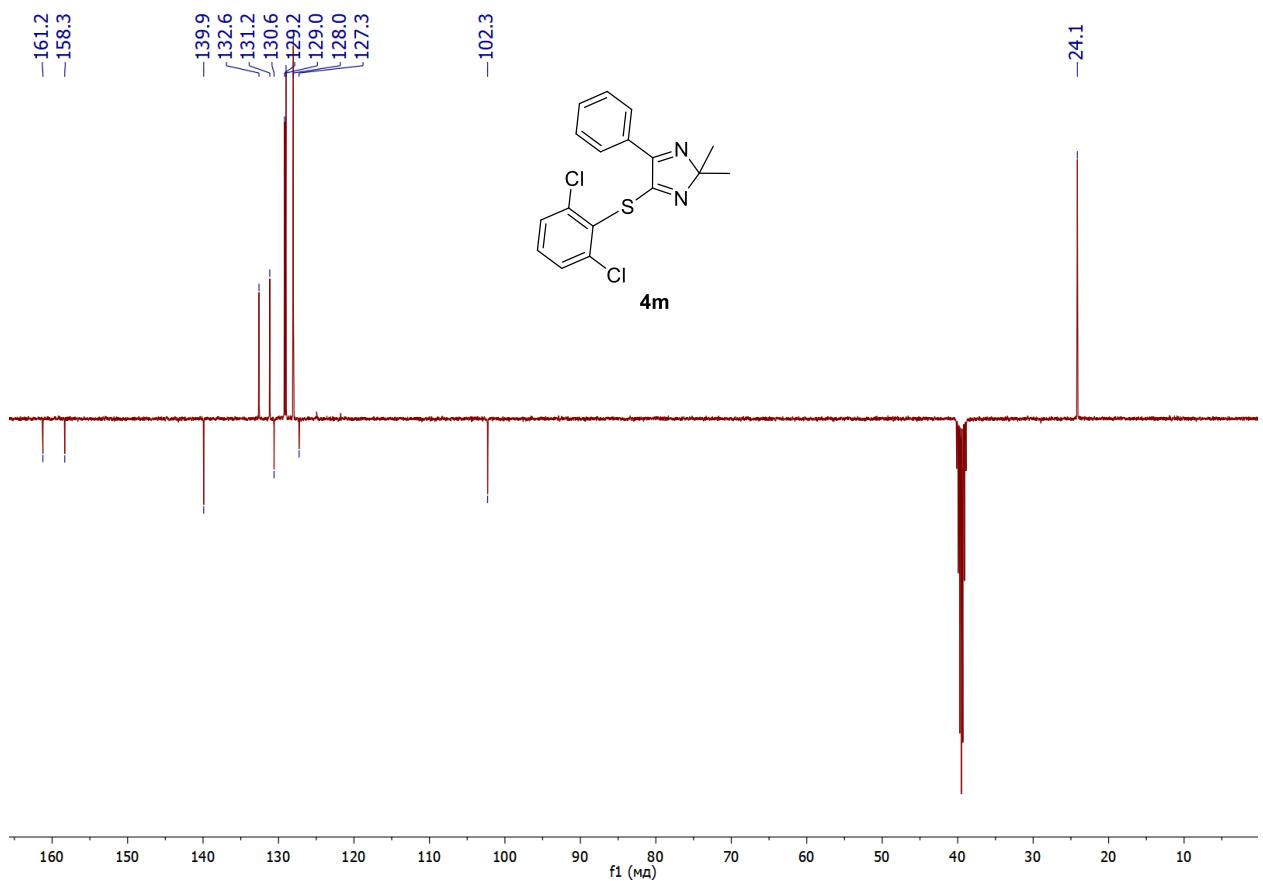


Figure S31. ^{13}C NMR spectrum (101 MHz, DMSO-d₆) of compound **4m**