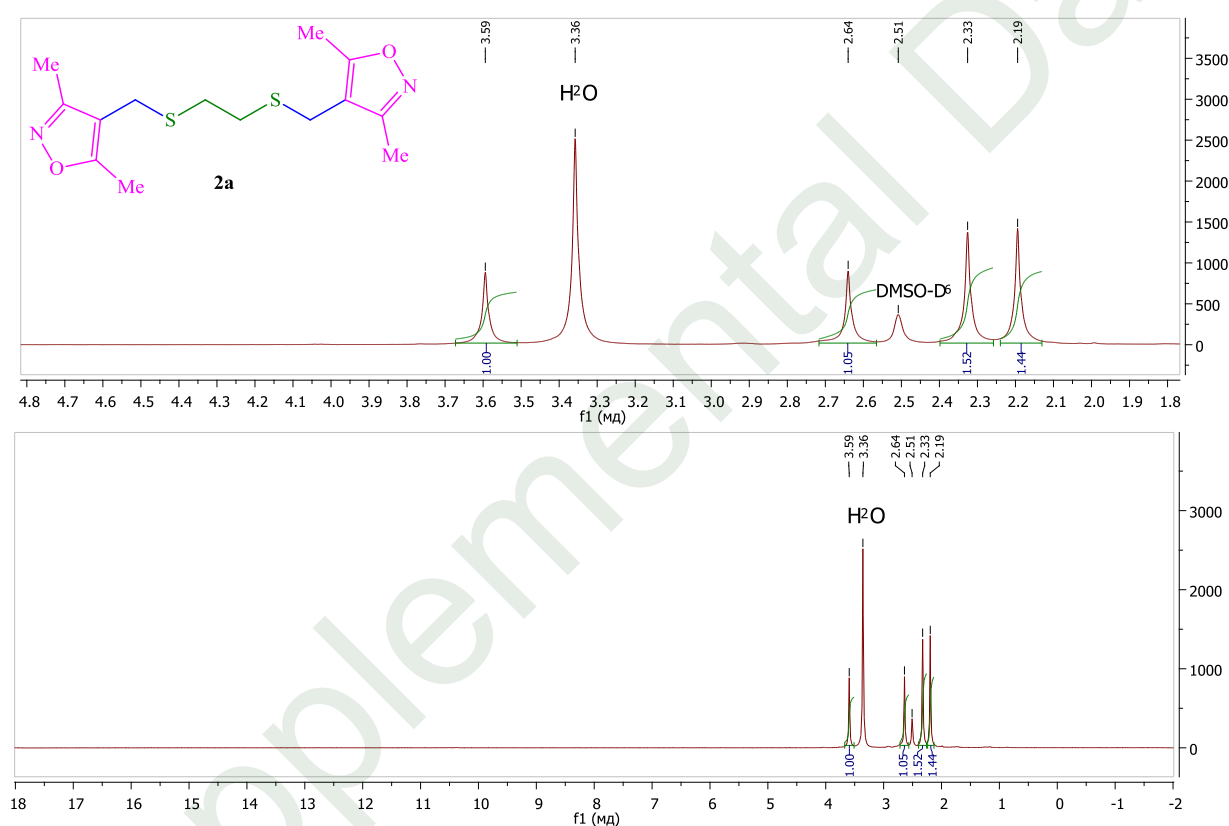


Synthesis of *Bis*(Isoxazol-4-Ylmethylsulfanyl)Alkanes and Some Metal Complexes as a Hepatoprotective Agents

Supporting Information

Below are given NMR-, IR- and mass-spectra of compounds.



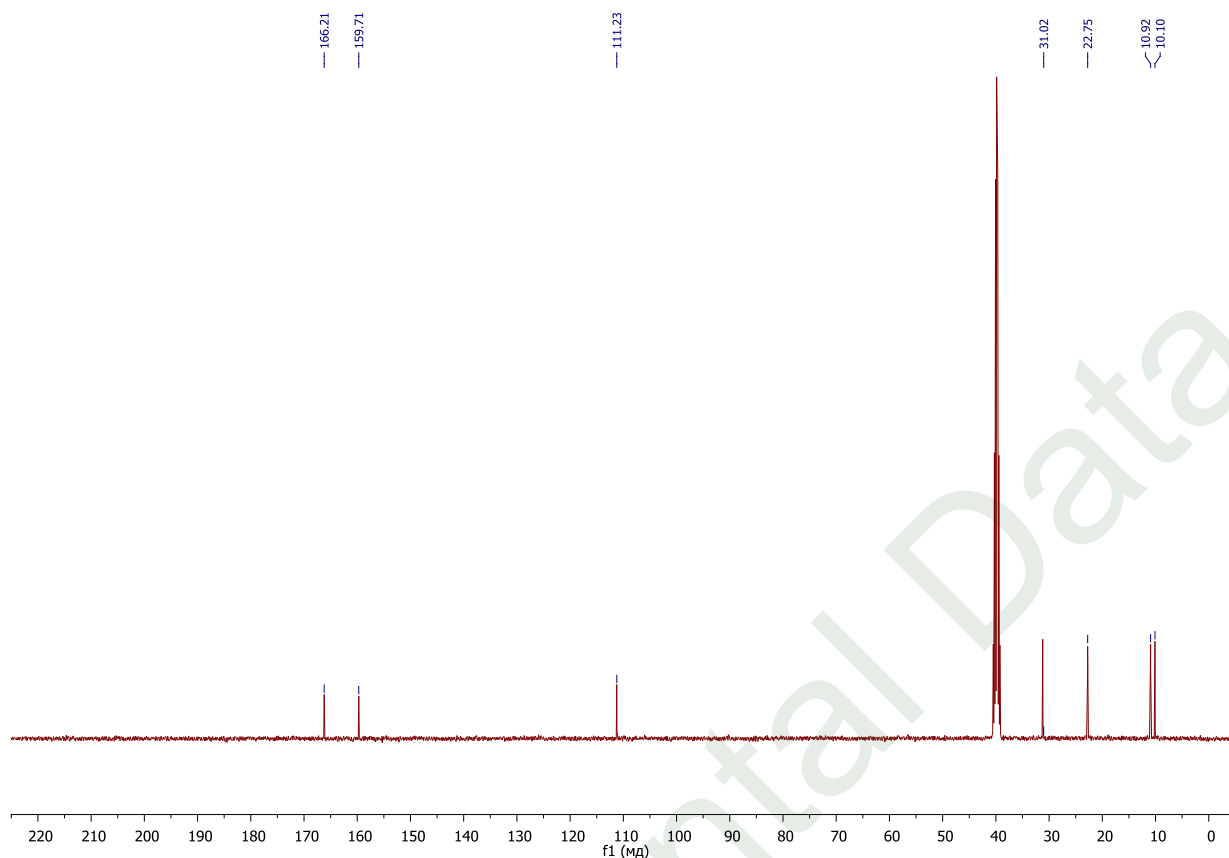


Figure S2. ¹³C NMR spectrum of **2a** in DMSO-D₆ (125 MHz)

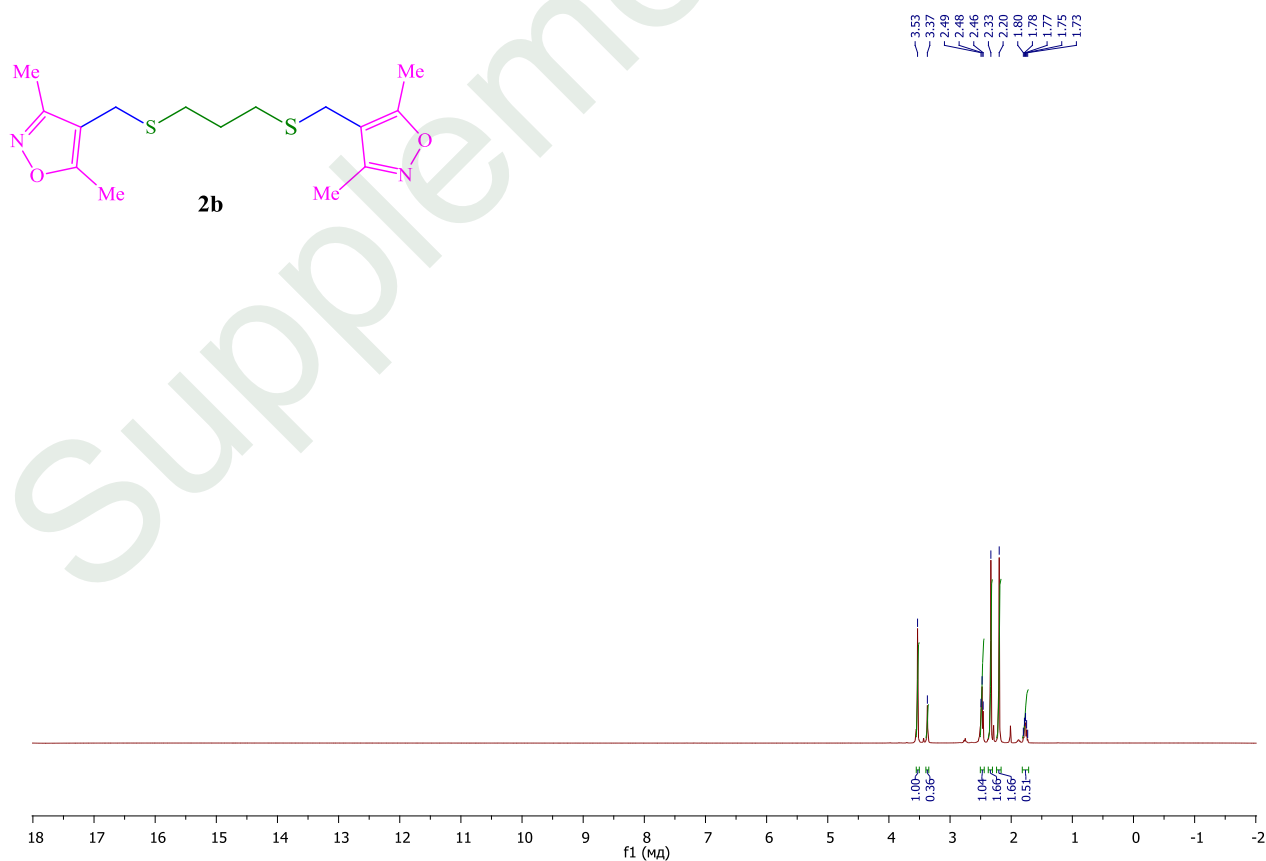


Figure S3. ¹H NMR spectrum of **2b** in DMSO-D₆ (400 MHz)

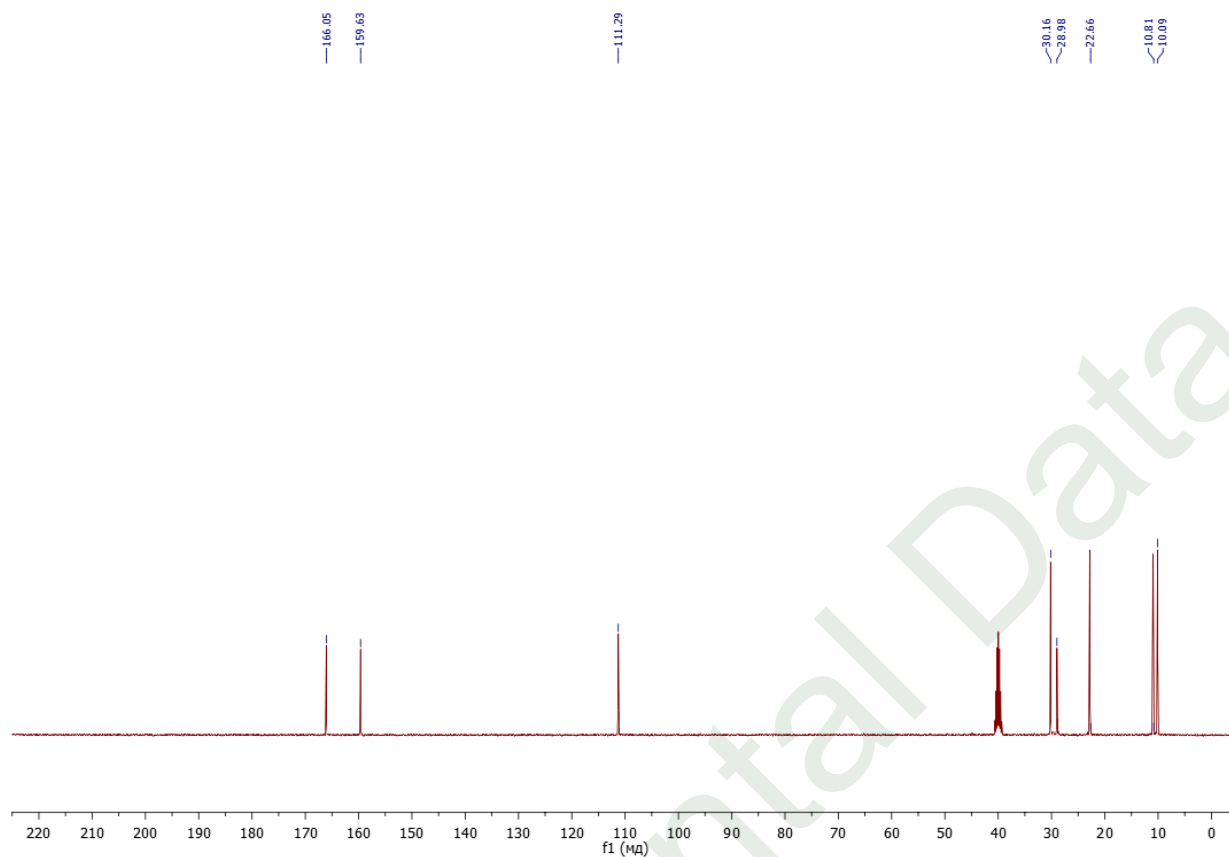


Figure S4. ^{13}C NMR spectrum of **2b** in DMSO-D_6 (100 MHz)

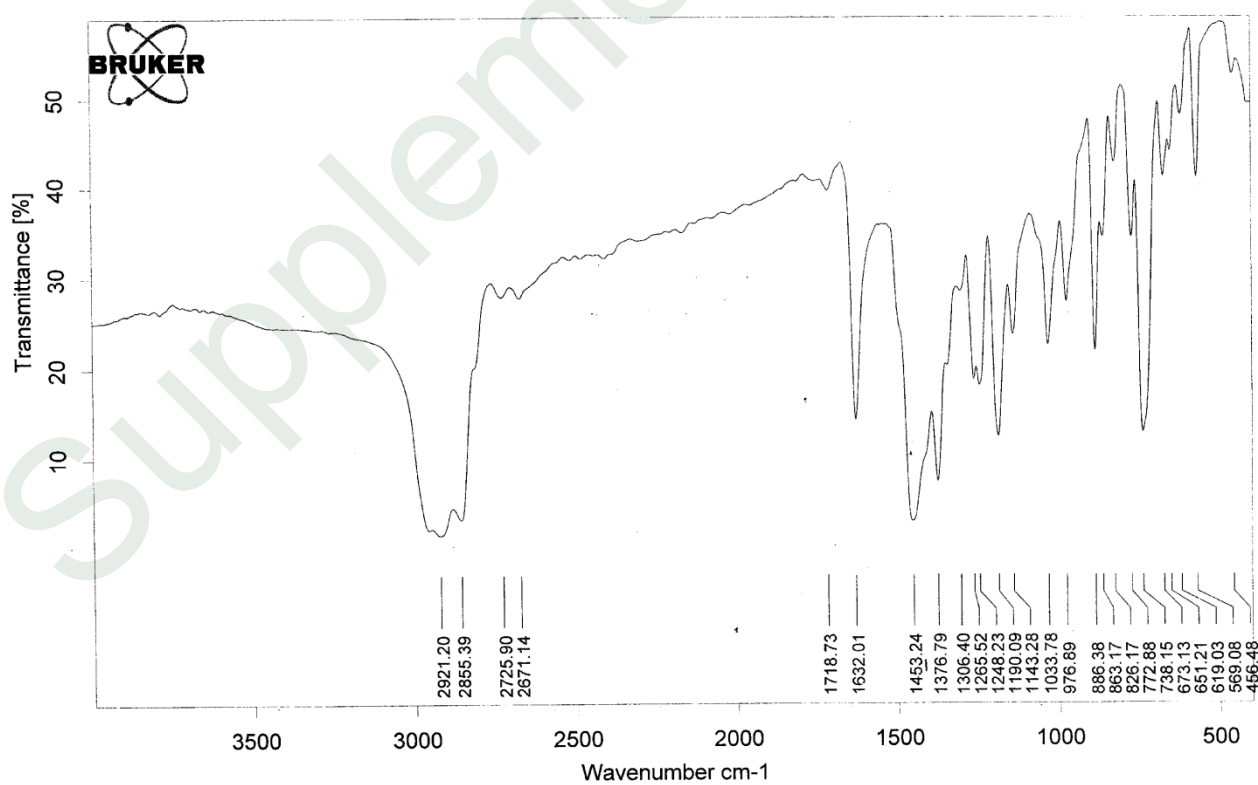


Figure S5. IR spectrum of compound **2b** in petroleum jelly.

D:\Data\2014\Axmadiev\ANS\389\2RP10_G211

Comment 1 ANS-389 HCCA
Comment 2 E=100% x1 RPositive

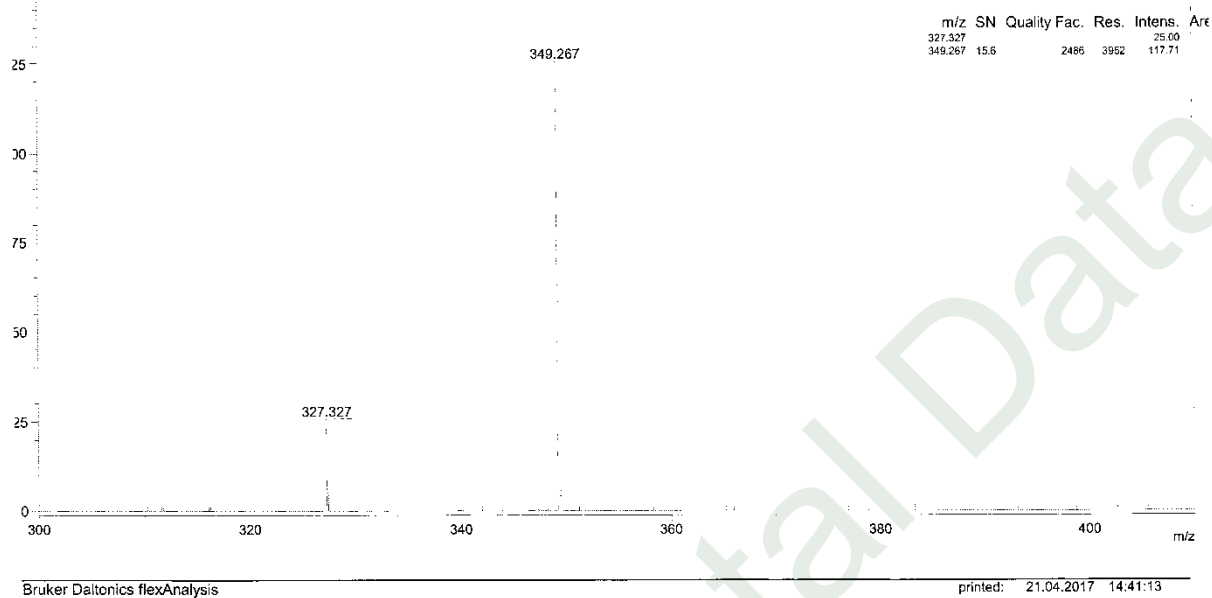


Figure S6. Mass-spectrum MALDI TOF of compound 2b.

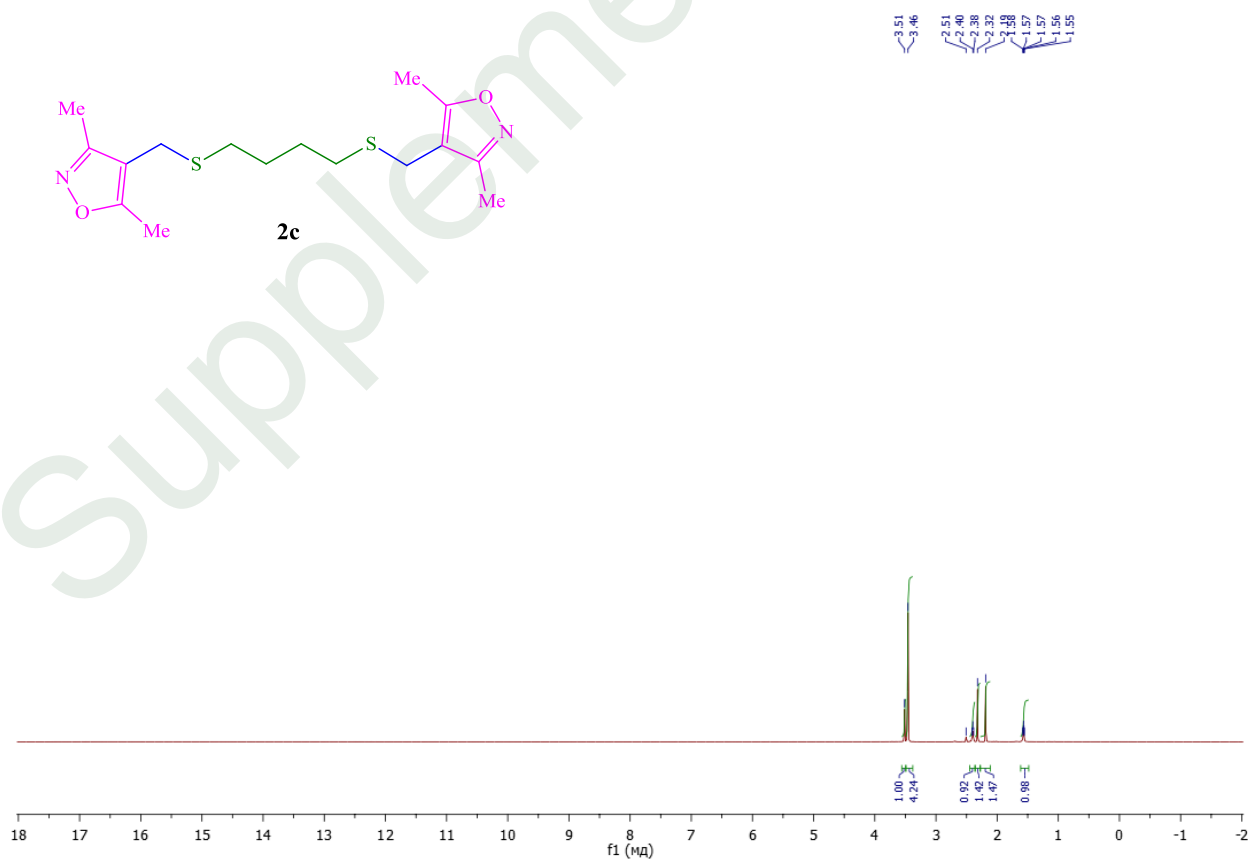


Figure S7. ^1H NMR spectrum of 2c in DMSO- D_6 (400 MHz)

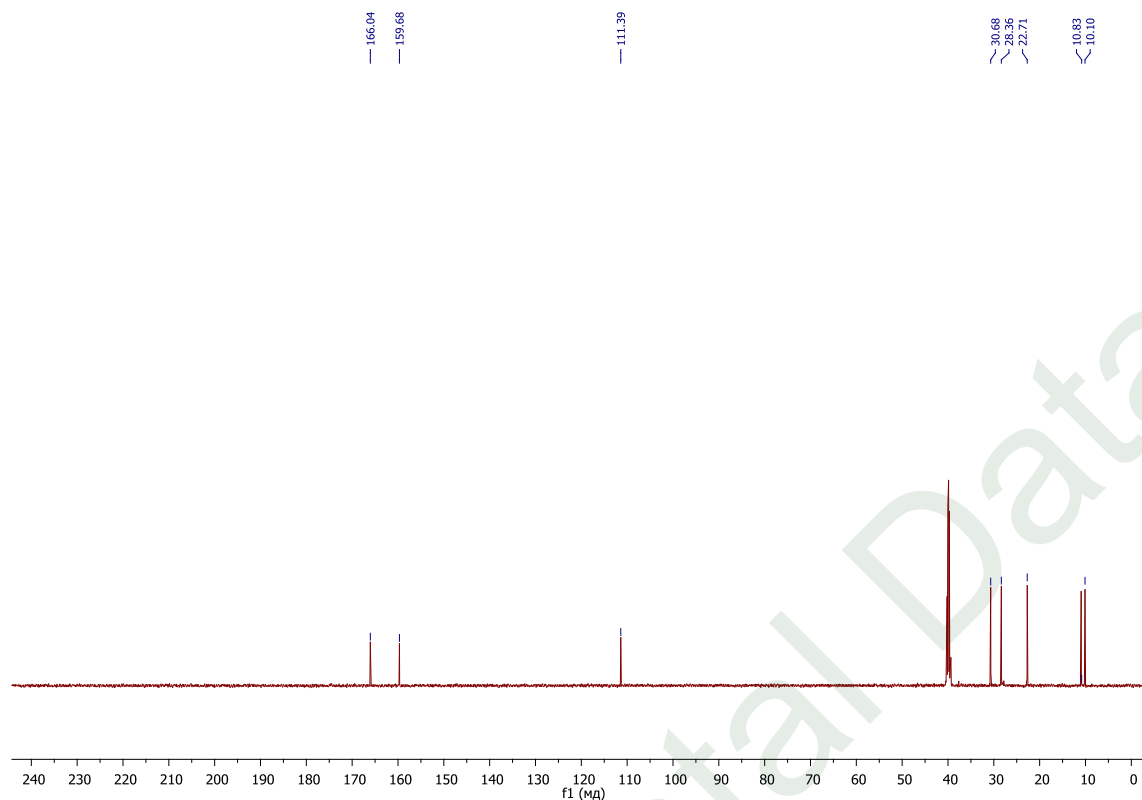


Figure S8. ^{13}C NMR spectrum of **2c** in $\text{DMSO-}D_6$ (100 MHz)

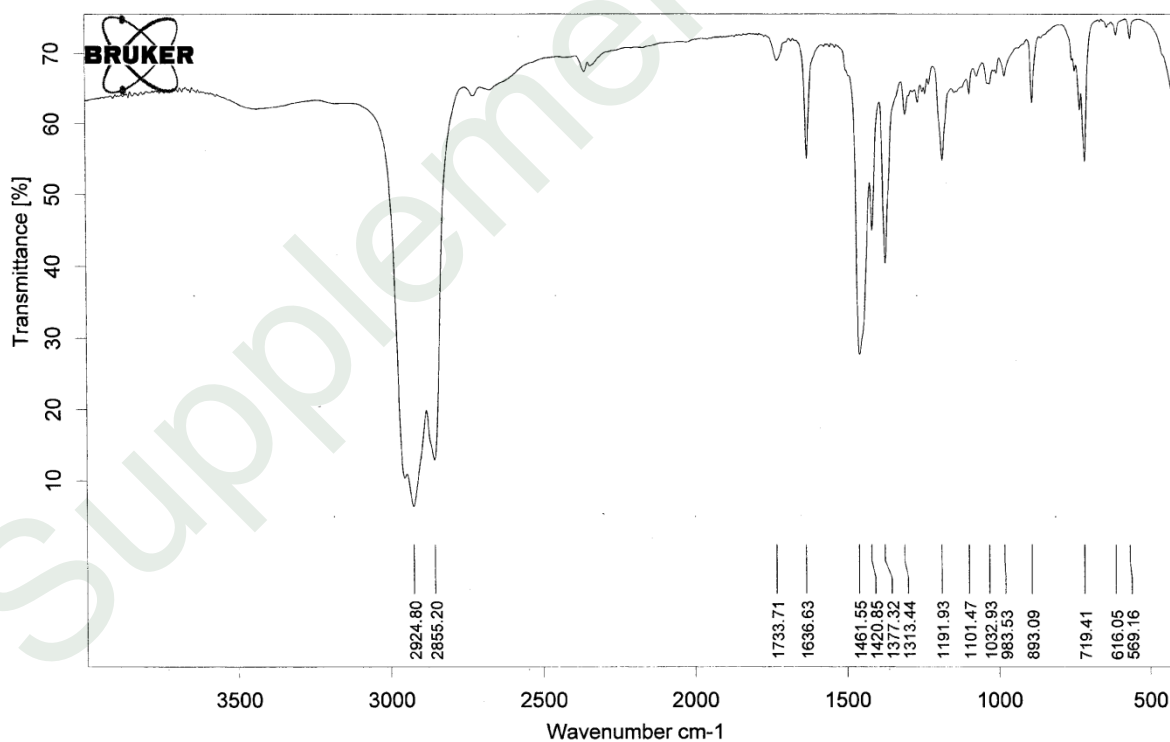


Figure S9. IR spectrum of compound **2c** in petroleum jelly.

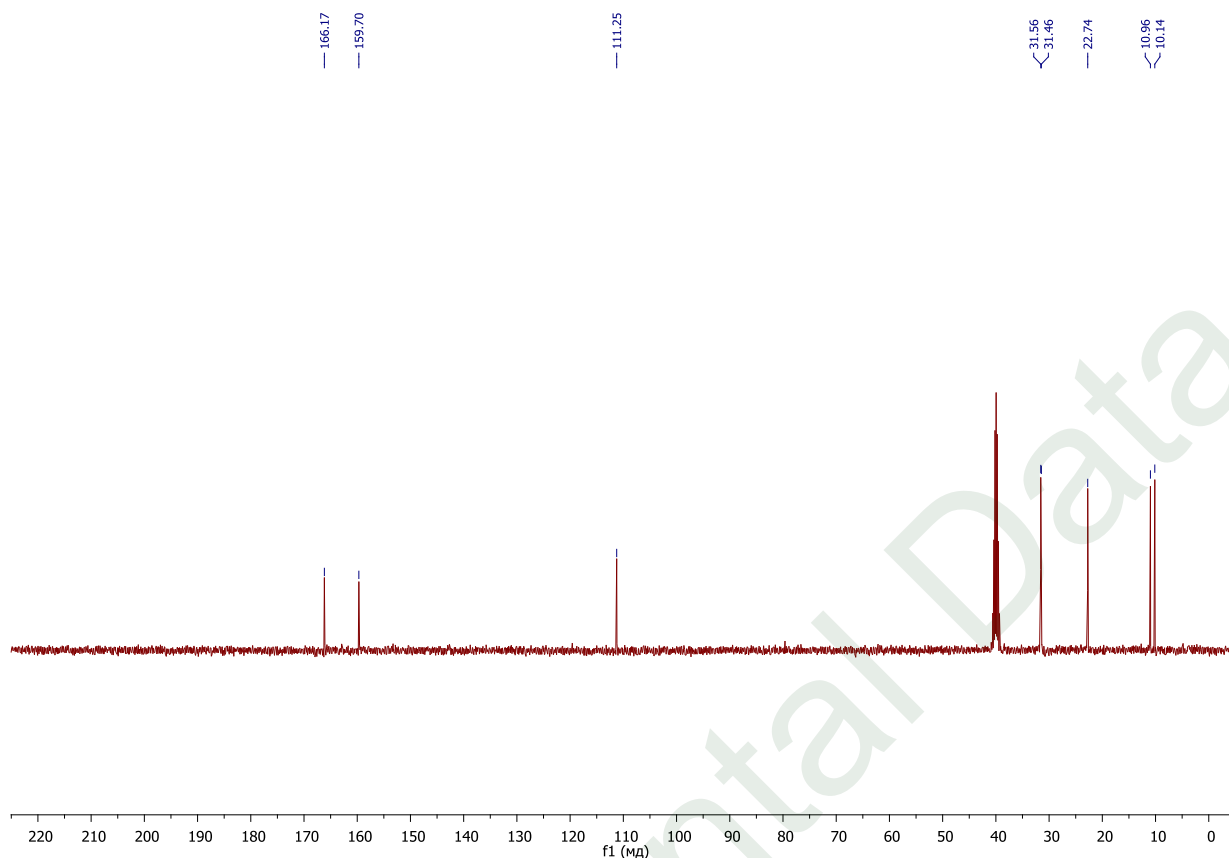
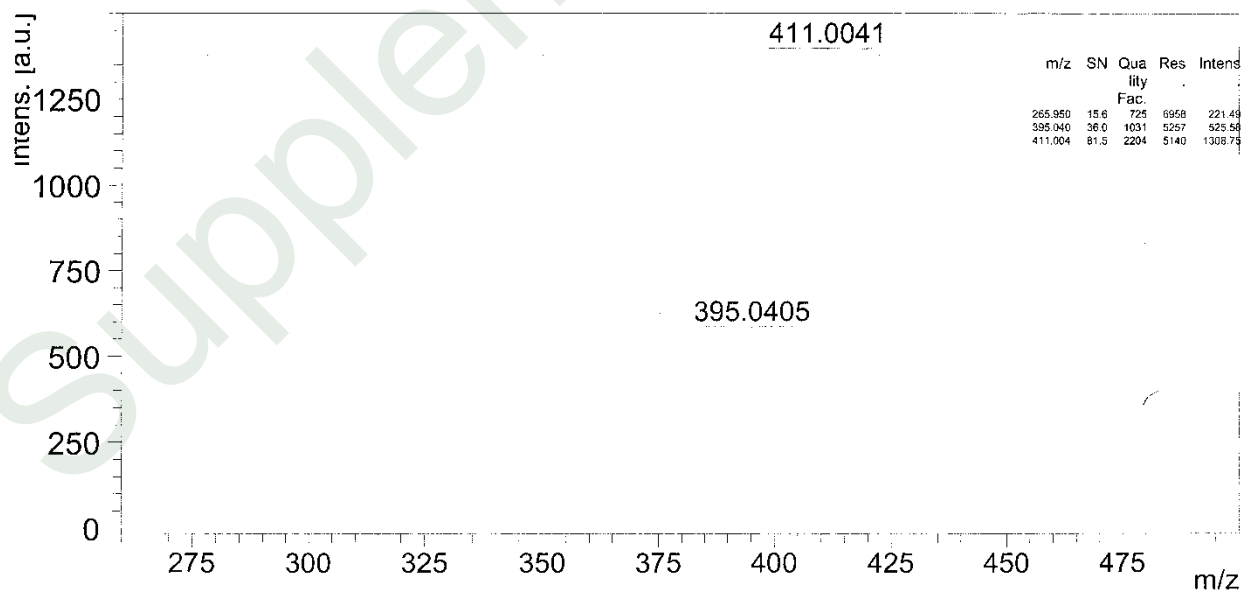


Figure S12. ^{13}C NMR spectrum of compound **2d** in DMSO-D_6 (100 MHz)

D:\Data\2014\Axmadiev\ANS\363\1RP\0_F17\1

Comment 1 ANS-363 HCCA
Comment 2 E=60% x1 RPostive



Bruker Daltonics flexAnalysis

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Figure S13. Mass-spectrum MALDI TOF of compound **2d**.

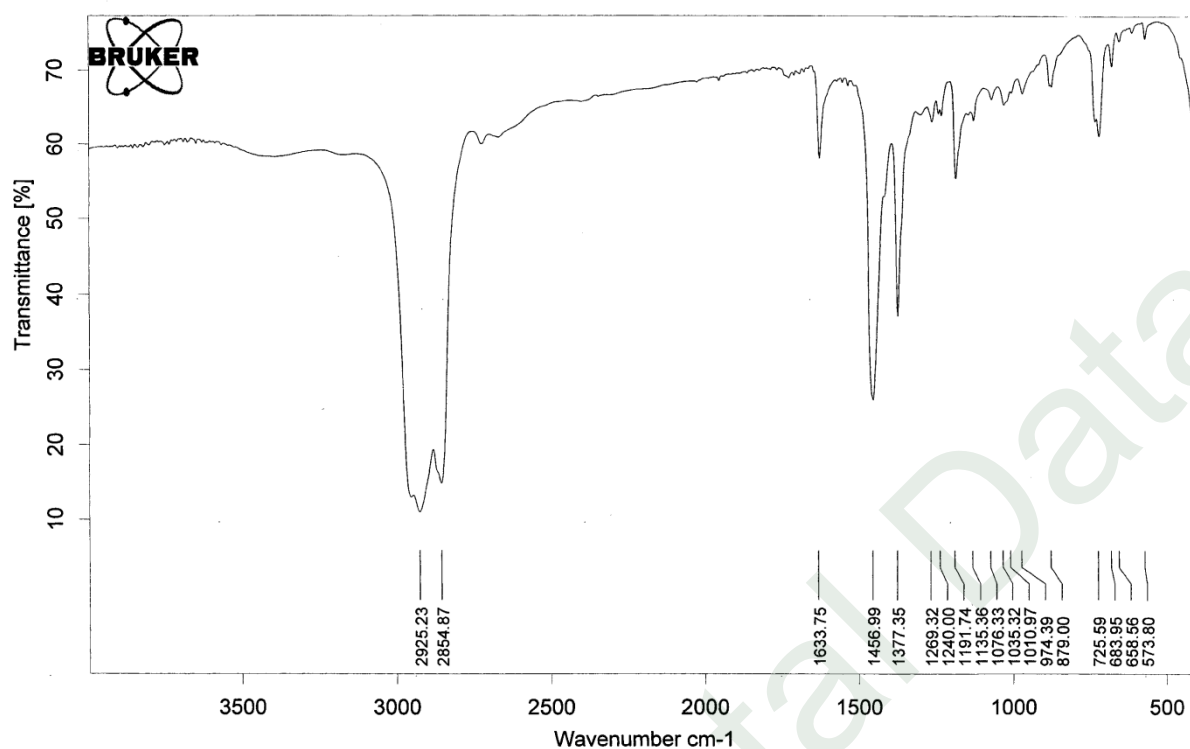


Figure S14. IR spectrum of compound **2d** in petroleum jelly.

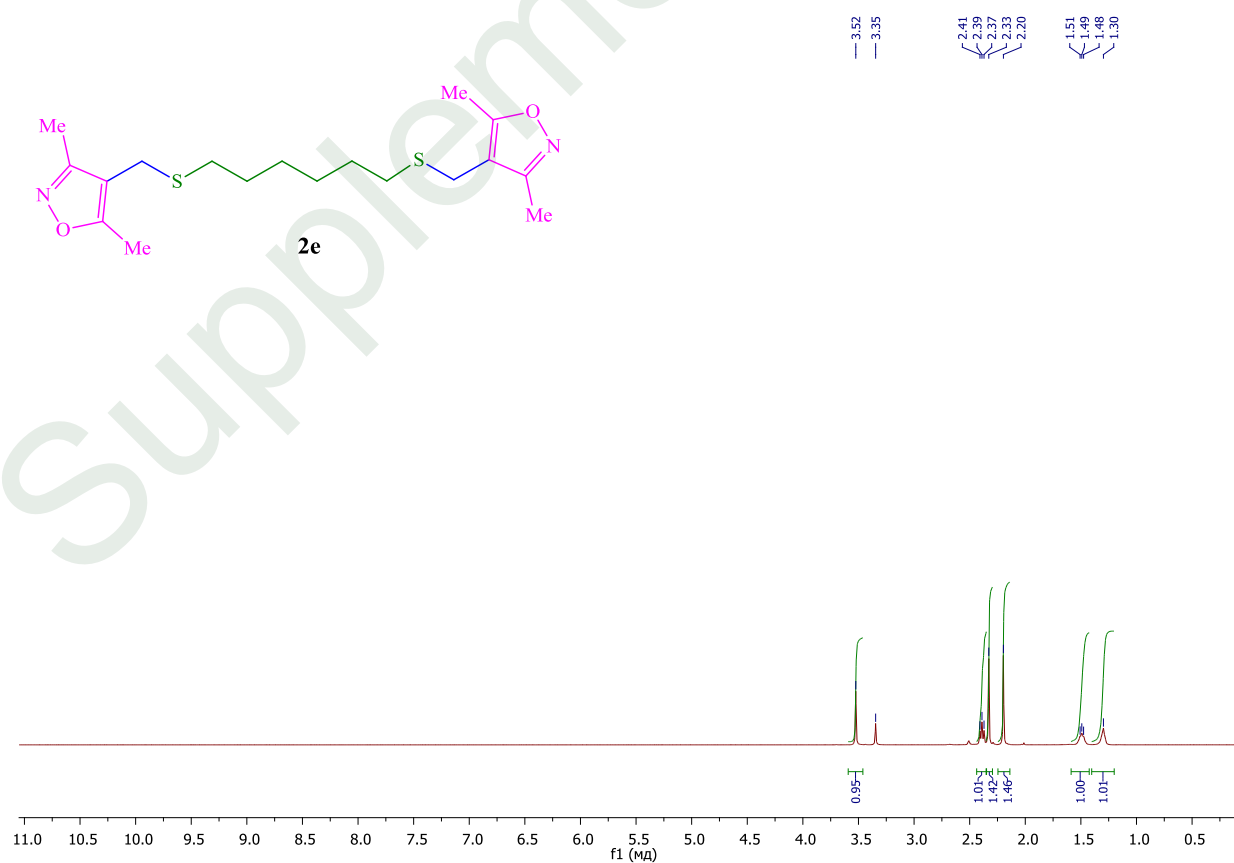


Figure S15. ^1H NMR spectrum of compound **2e** in DMSO-D_6 (400 MHz)

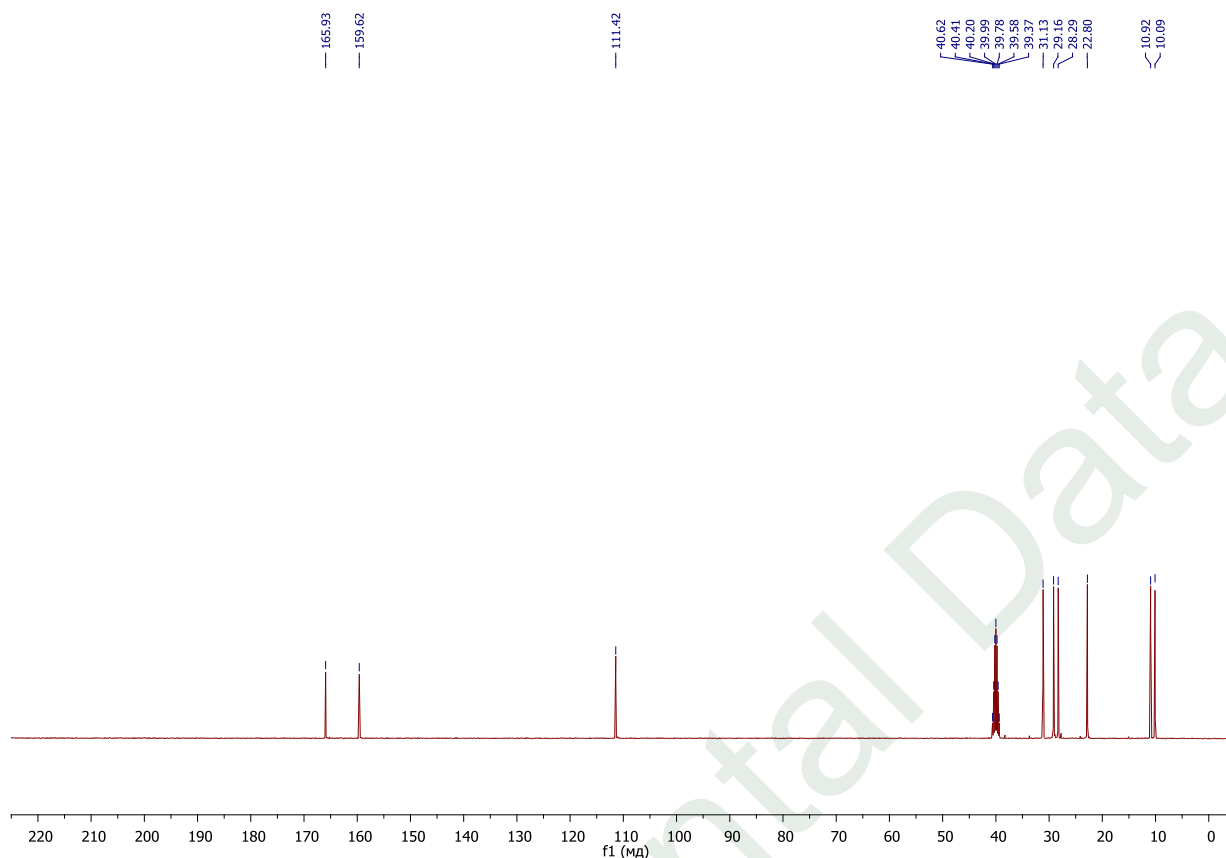


Figure S16. ^{13}C NMR spectrum of compound **2e** in $\text{DMSO-}D_6$ (100 MHz)

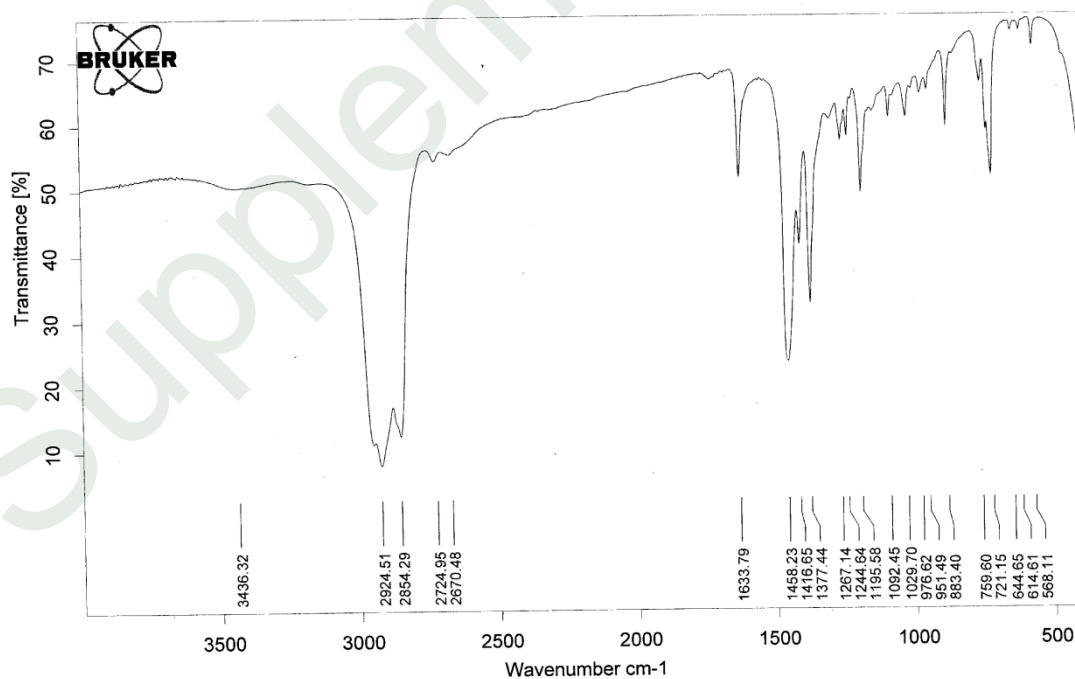


Figure S17. IR spectrum of compound **2e** in petroleum jelly.

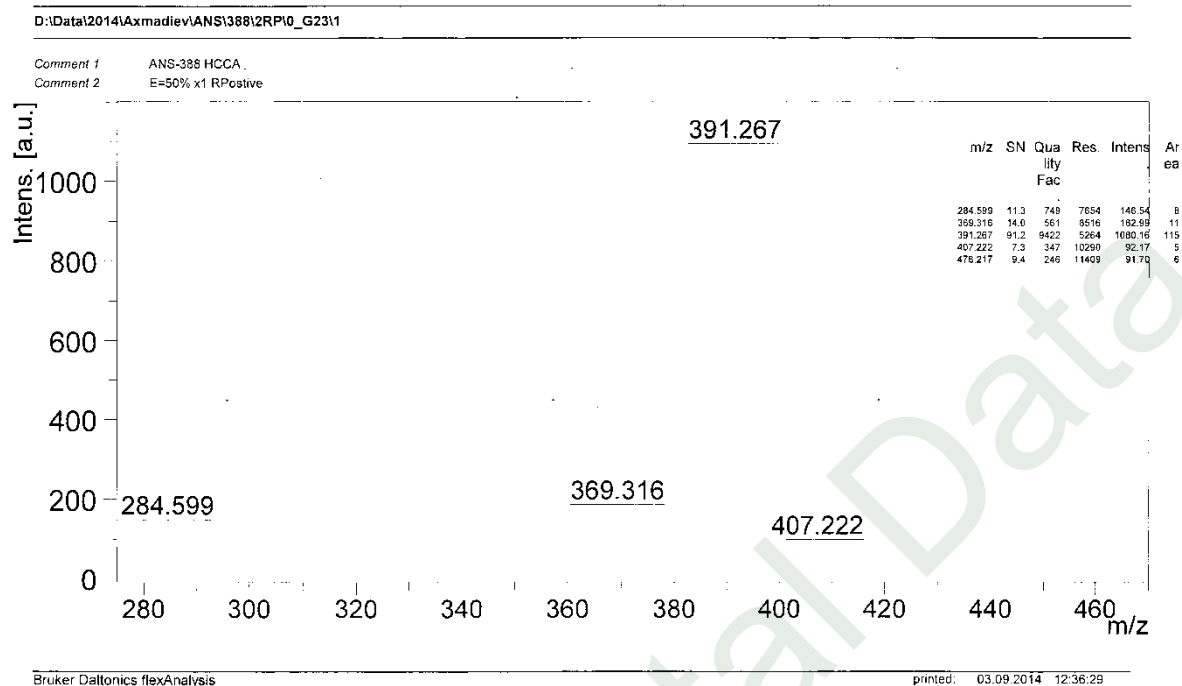


Figure S18. Mass-spectrum MALDI TOF of compound **2e**.

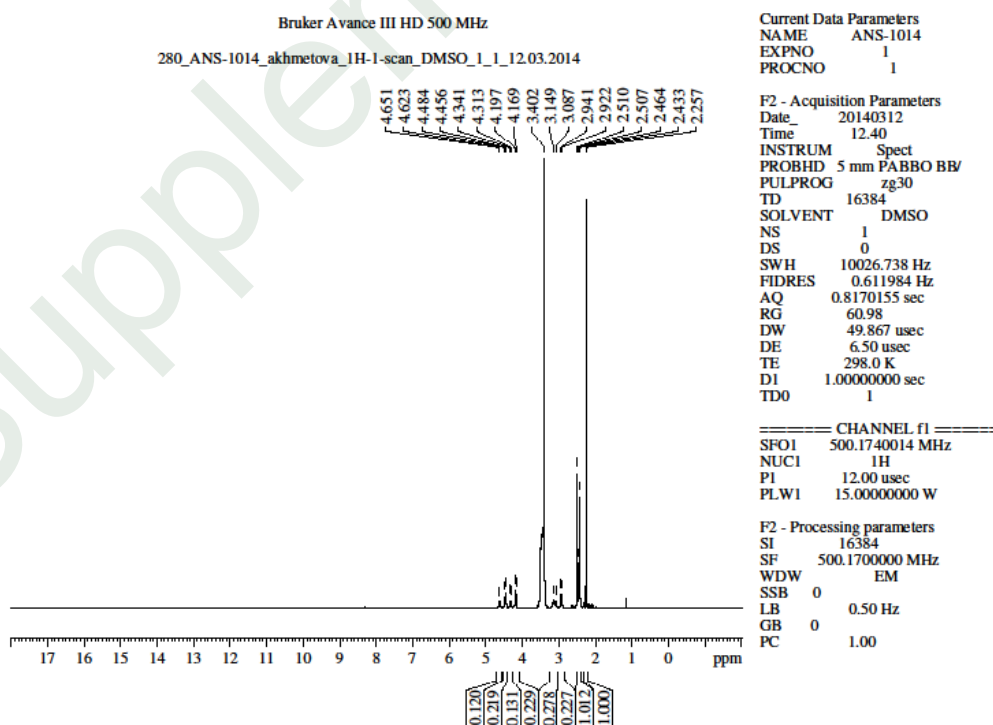


Figure S19. ^1H NMR spectrum of complex **3** in DMSO- D_6 (500 MHz).

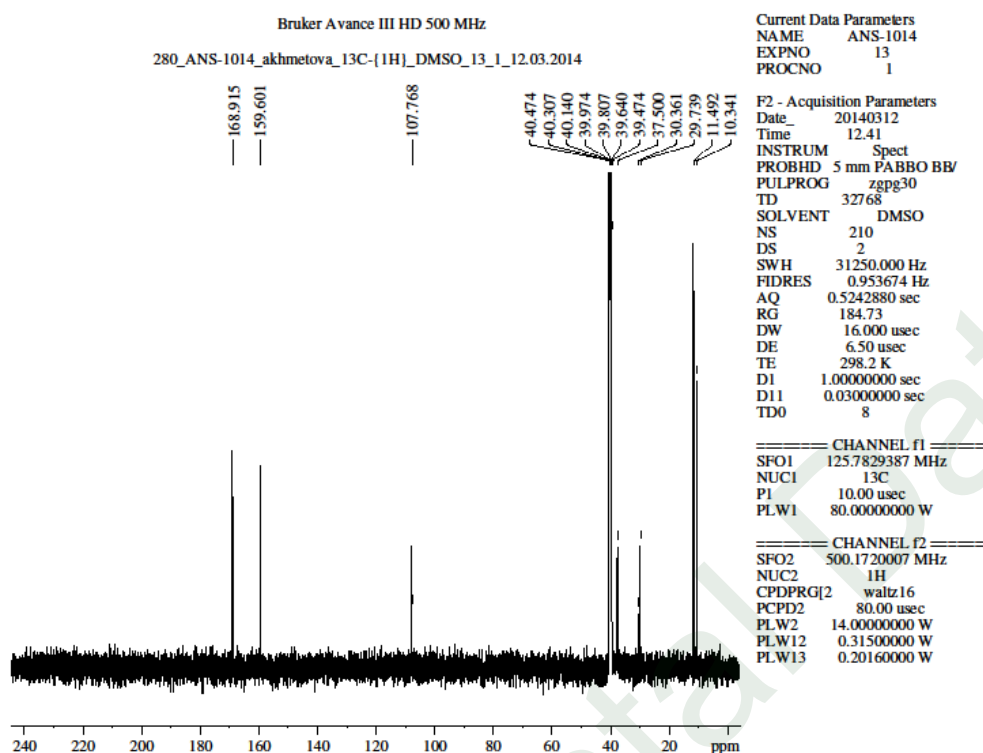


Figure S20. ^{13}C NMR spectrum of complex 3 in DMSO- D_6 (500 MHz).

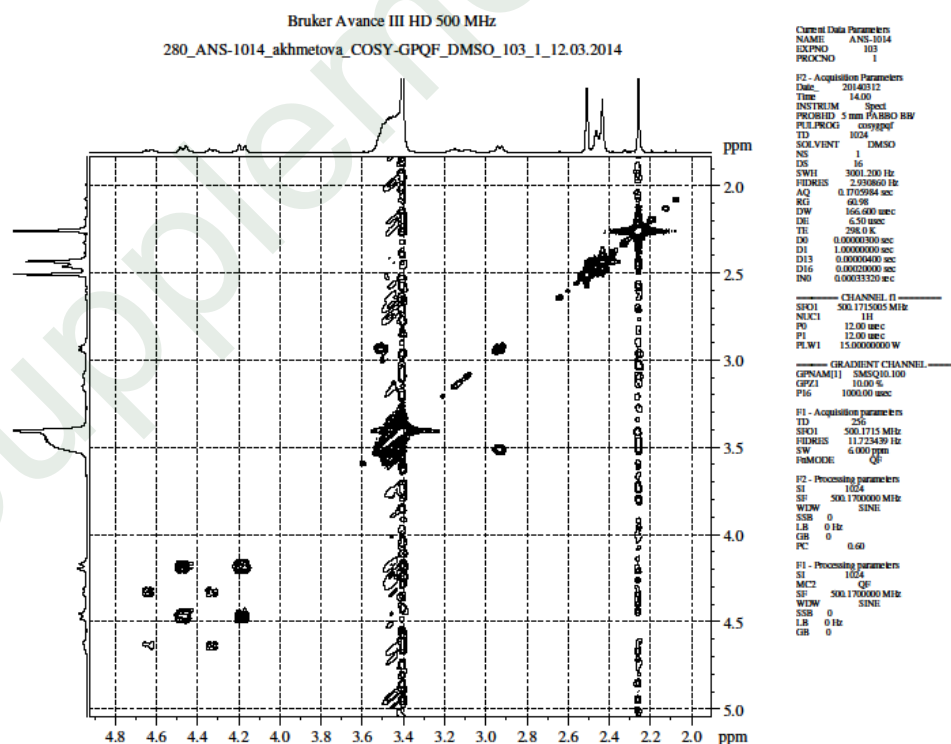


Figure S21. COSY spectrum of complex 3 in DMSO- D_6 (500 MHz).

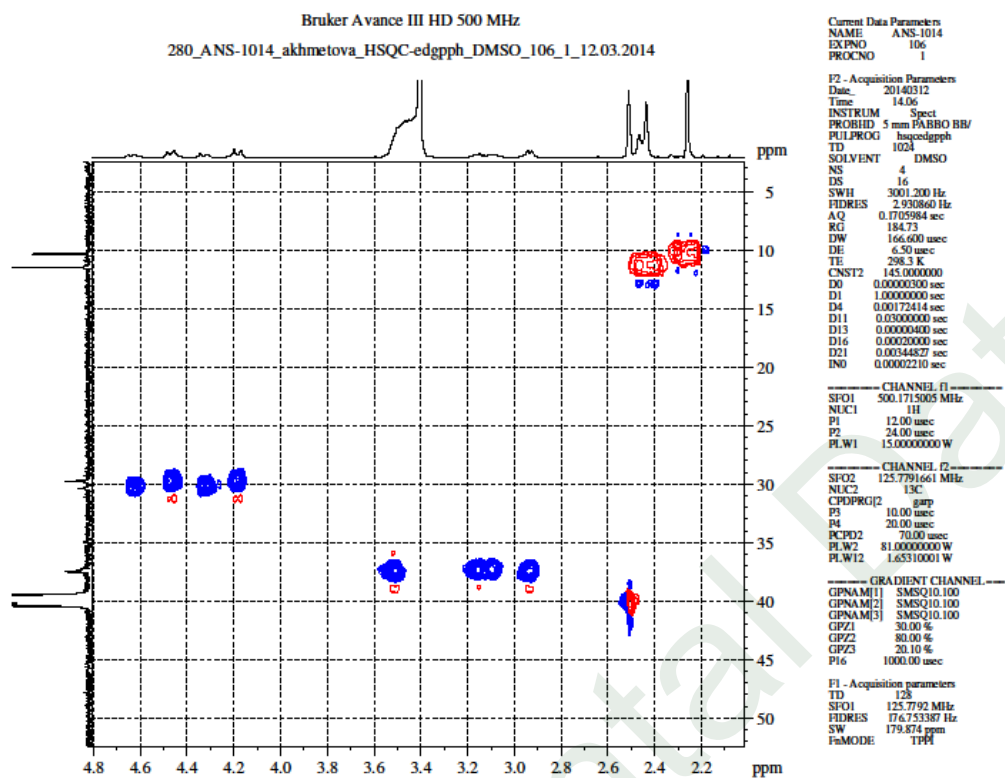


Figure S22. HSQC spectrum of complex 3 in DMSO-D₆ (500 MHz).

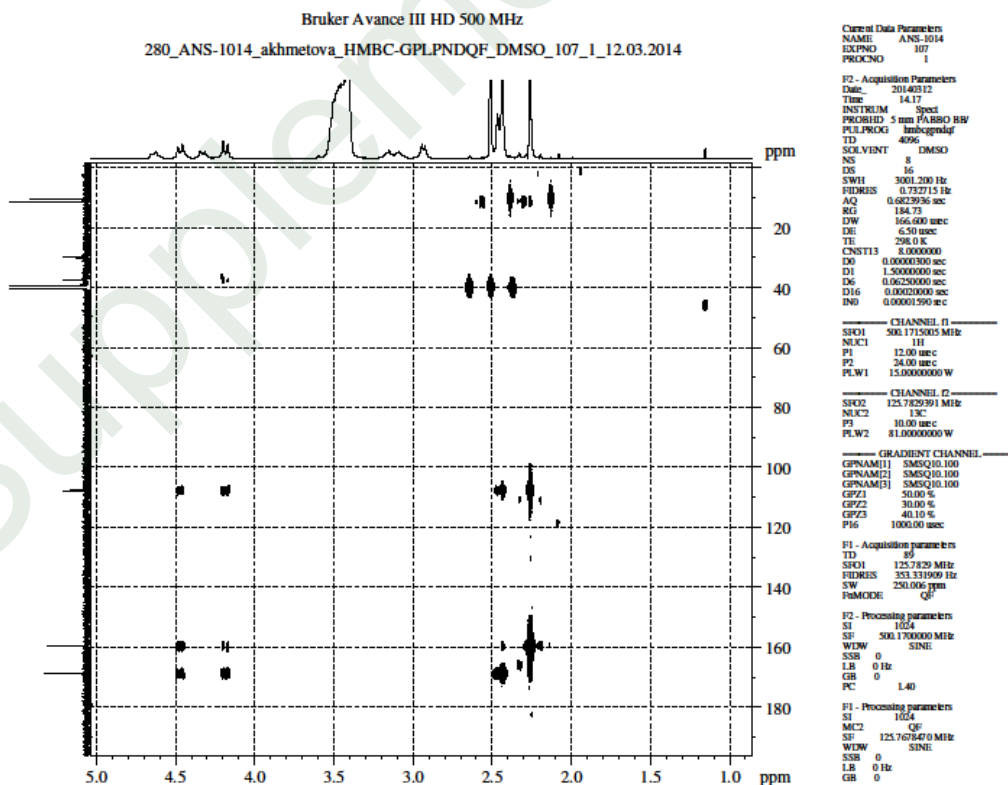


Figure S23. HMBC spectrum of complex 3 in DMSO-D₆ (500 MHz).

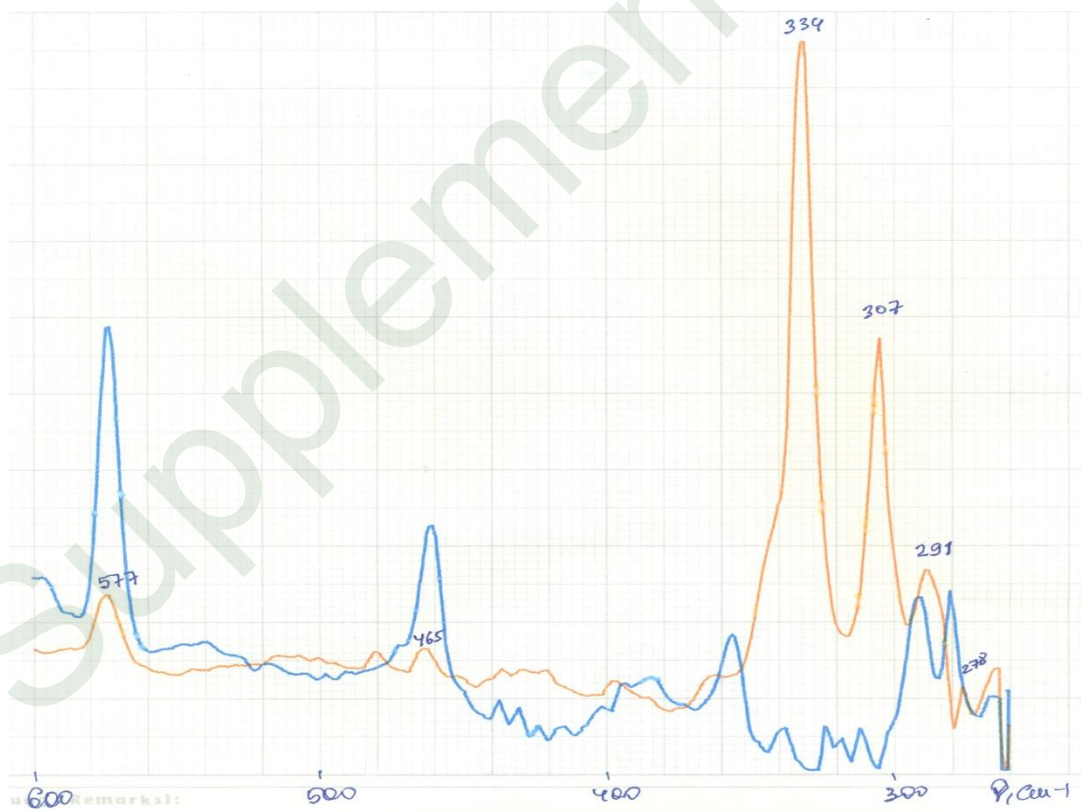
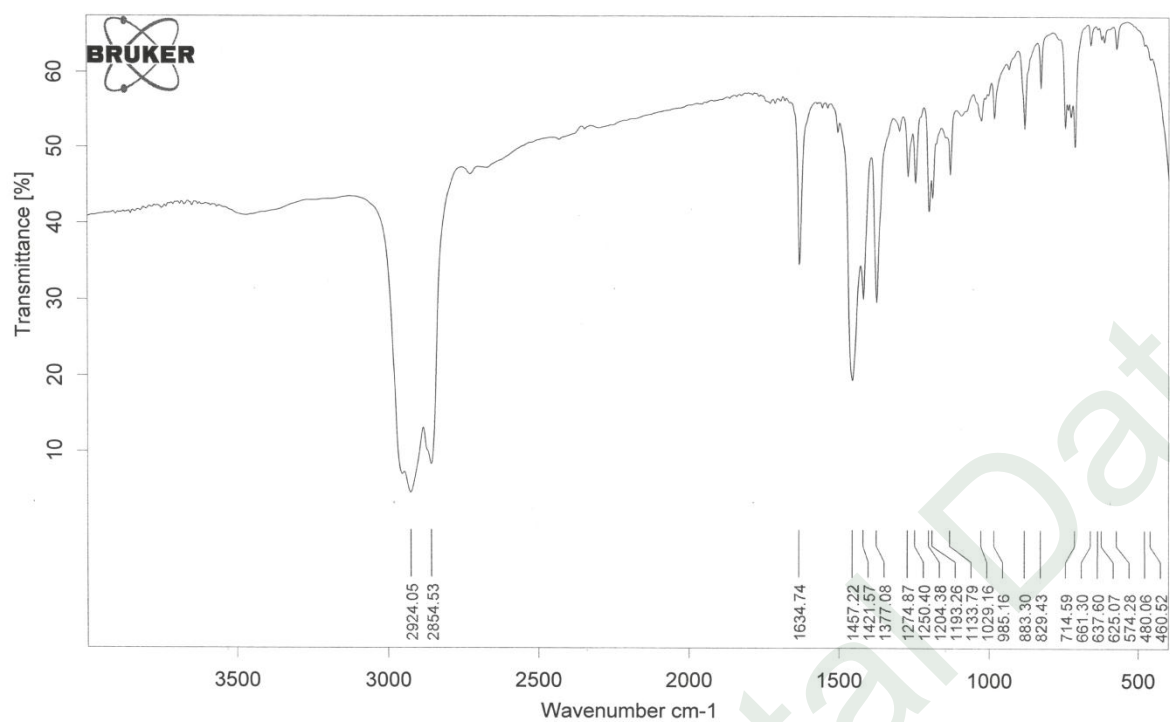


Figure S24. IR spectrum of complex 3 in nujol: (blue line – 2a, orange line – complex 3).

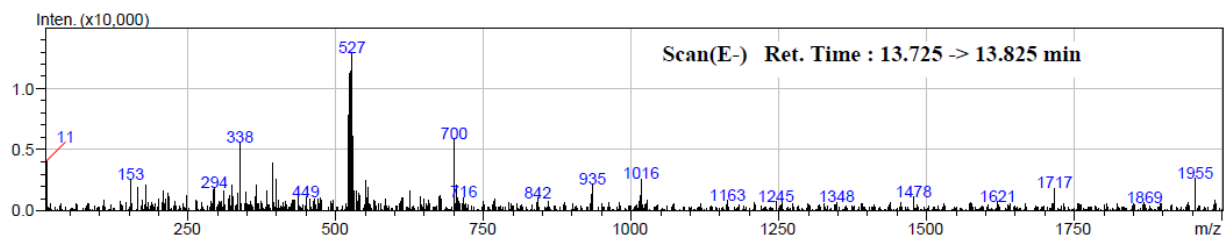


Figure S25. Mass-spectrum LS-MS (ESI) of complex **3** (500 MHz).

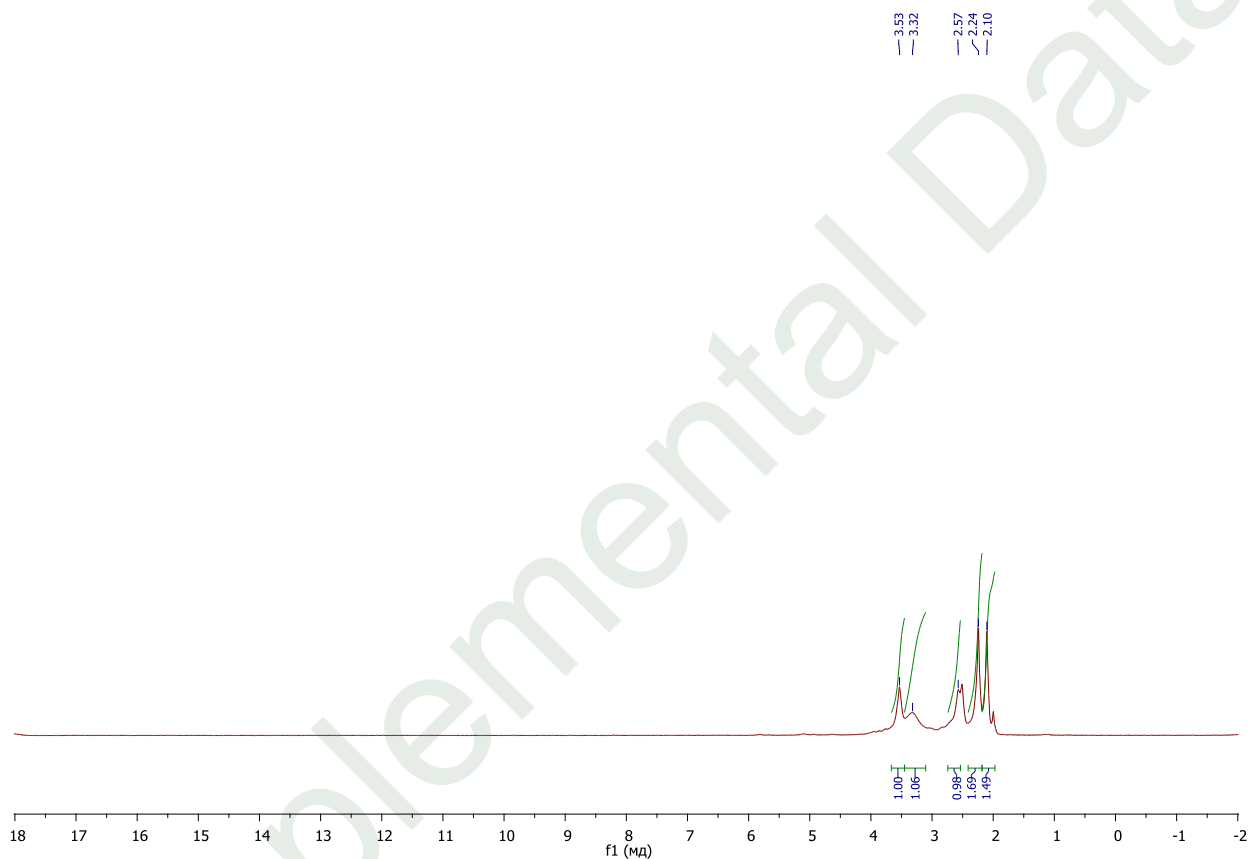


Figure S26. ¹H NMR spectrum of complex **4** in DMSO-D₆ (500 MHz).

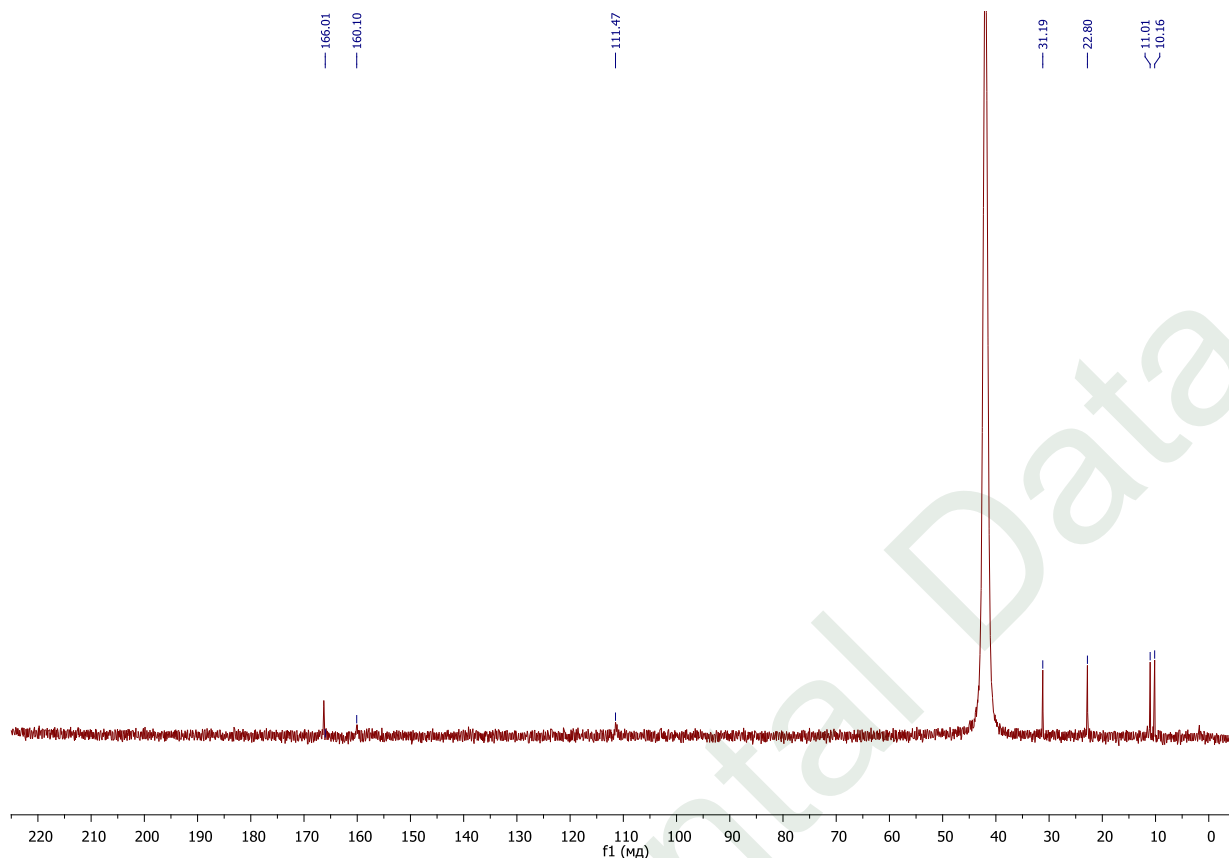
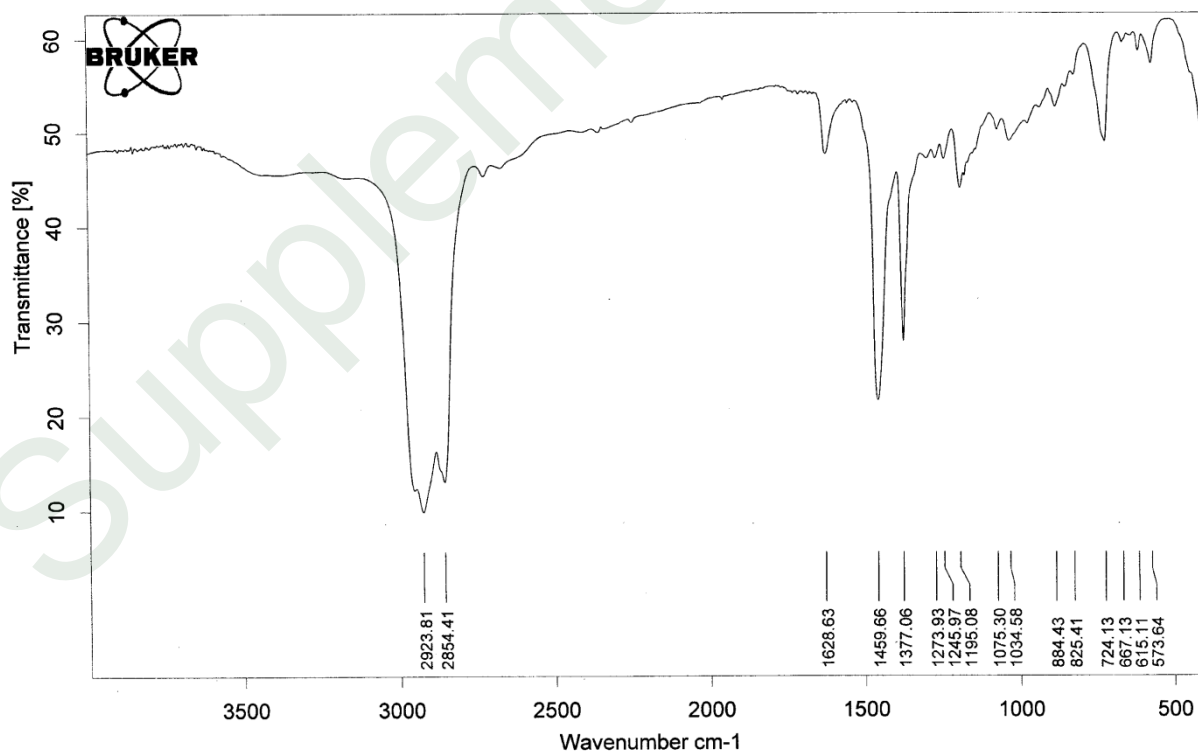


Figure S27. ¹³C NMR spectrum of complex 4 in DMSO-D₆ (125 MHz).



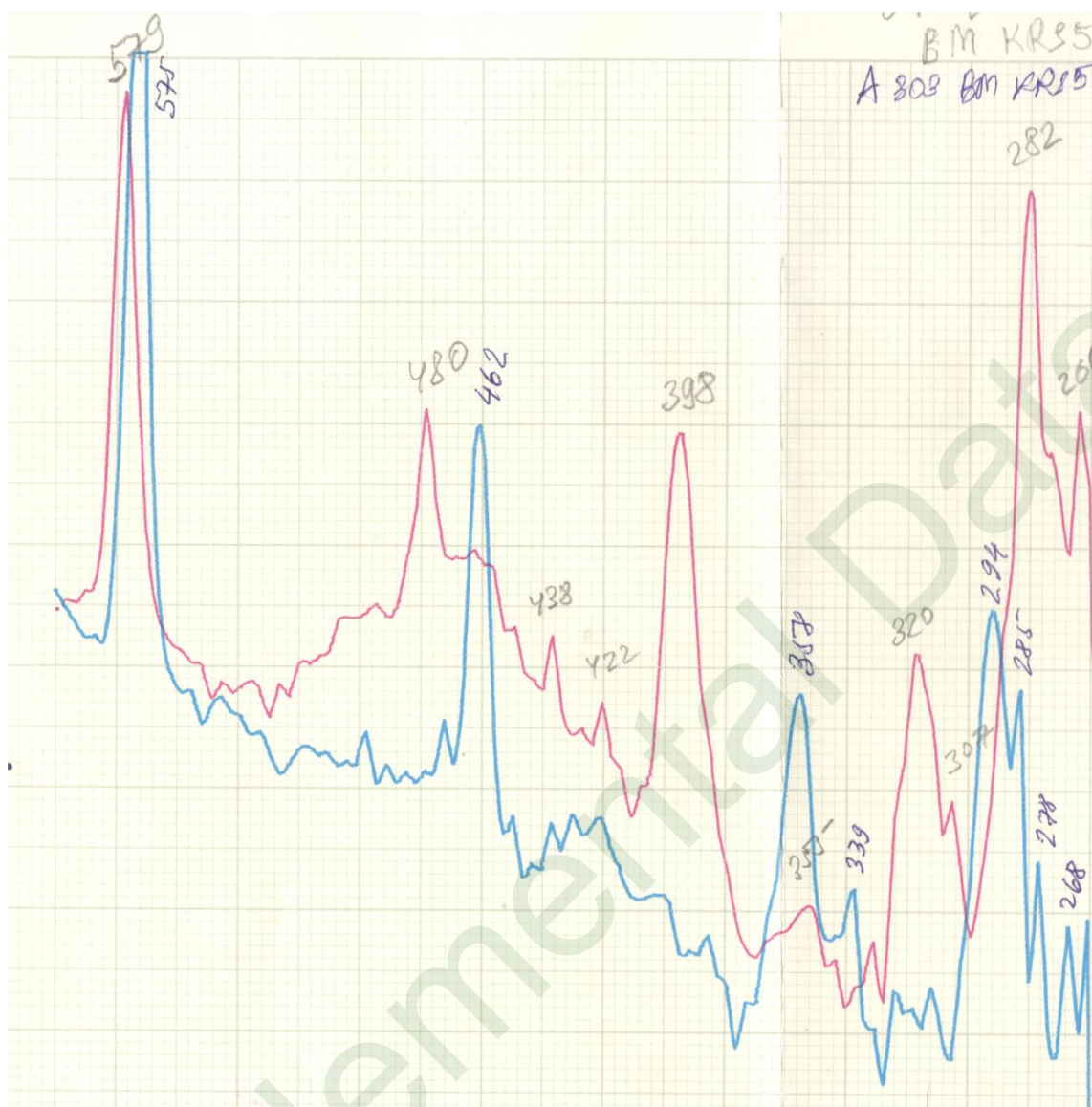


Figure S28. IR spectrum of complex 4 in nujol: (blue line – 2a, red line – complex 4).