

Supporting Information

KOTHURI KIRAN^{1,2}, DONGAMANTI ASHOK¹, BODDU ANANDA RAO¹, MADDERLA SARASIJA¹, and
ALAPATI SRINIVAS RAO³

¹*Green and Medicinal Chemistry Laboratory, Department of Chemistry, Osmania University, Hyderabad, 500007, Telangana, India*

²*Department of Chemistry, JNTU-H, Hyderabad, Telangana, 500 085, India.*

³*Vagdevi InnoScience Private Limited, 5-A/8, IDA Nacharam, Hyderabad, 500 076, Telangana, India.*

E-mail: ashokdou@gmail.com

Green and Medicinal Chemistry Laboratory, Department of Chemistry, Osmania University, Hyderabad, 500007, Telangana, India.

1 Corresponding author. E-mail: ashokdou@gmail.com
doi: 10.2298/JSC160216076A

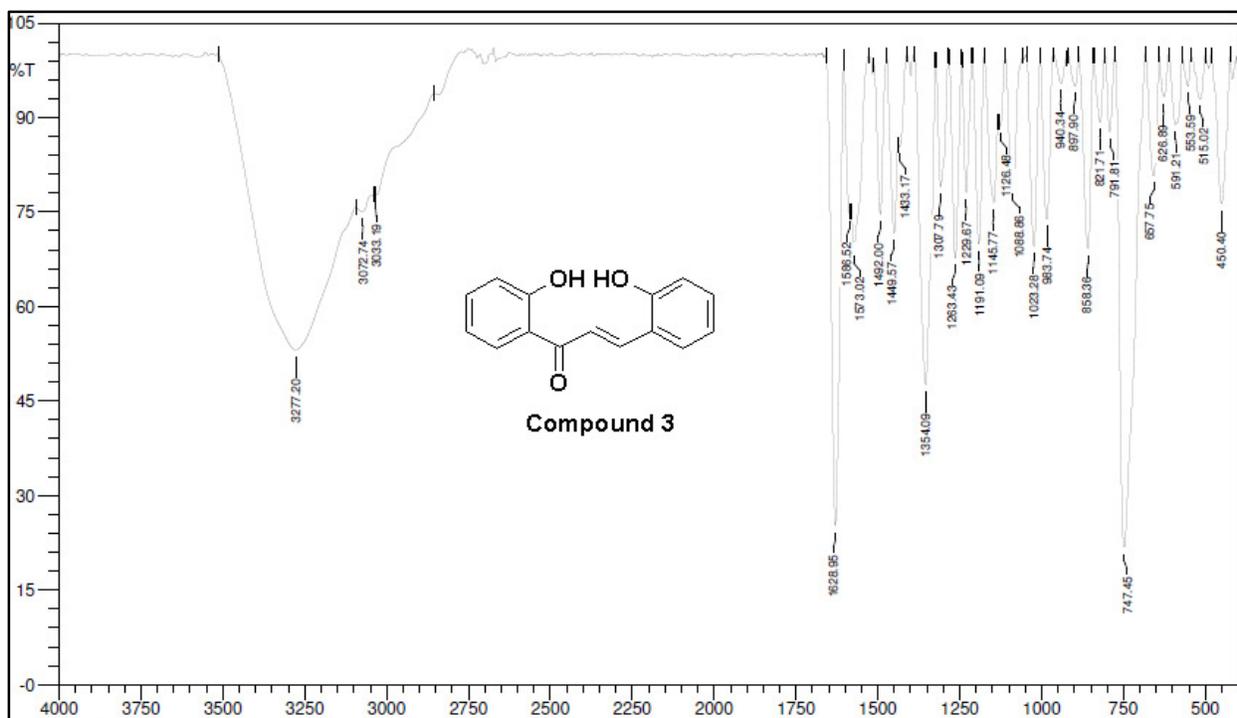


Figure S1: IR spectra of compound 3

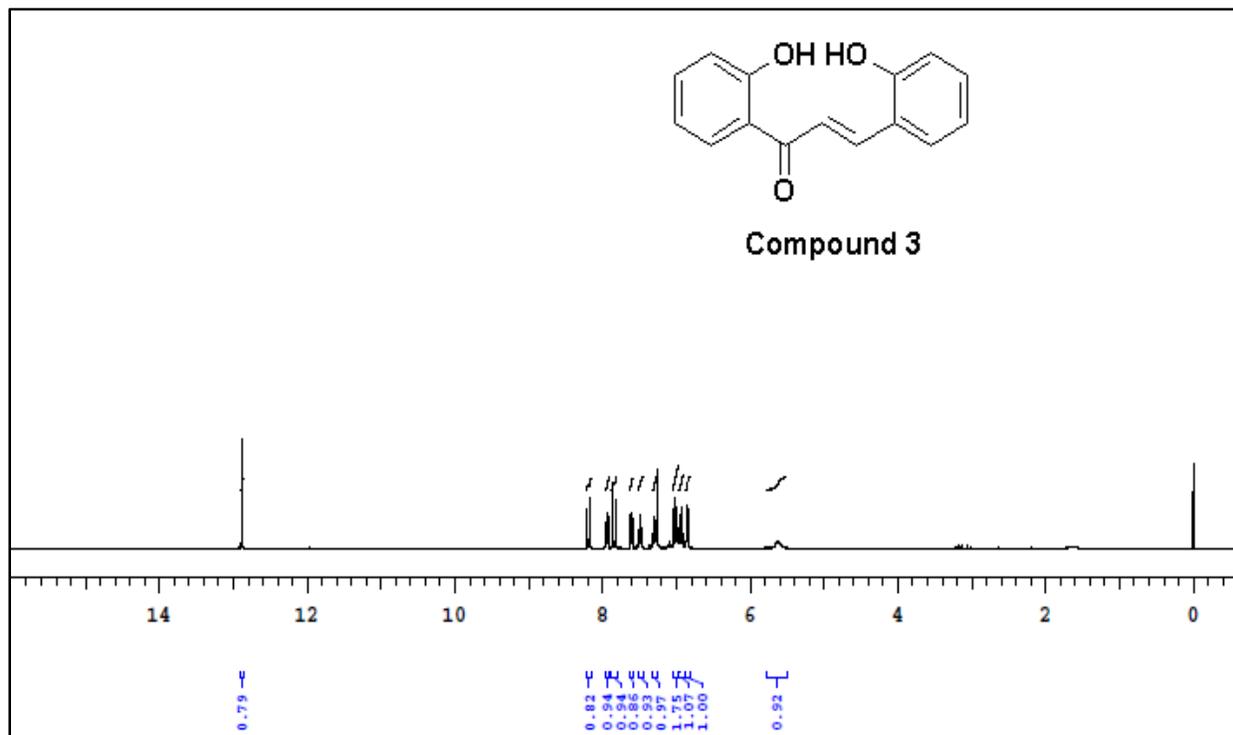


Figure S2: ¹H-NMR (400 MHz, CDCl₃) spectra of compound 3

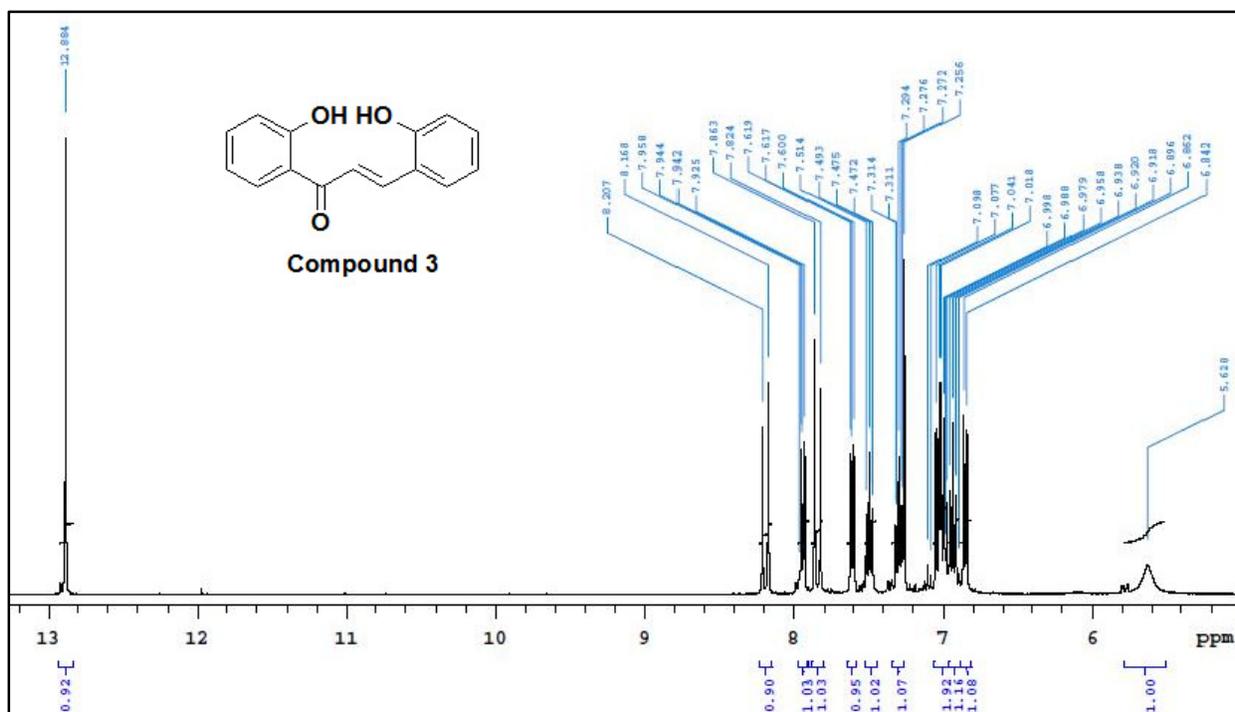


Figure S3: $^1\text{H-NMR}$ (400 MHz, CDCl_3) spectra of compound 3

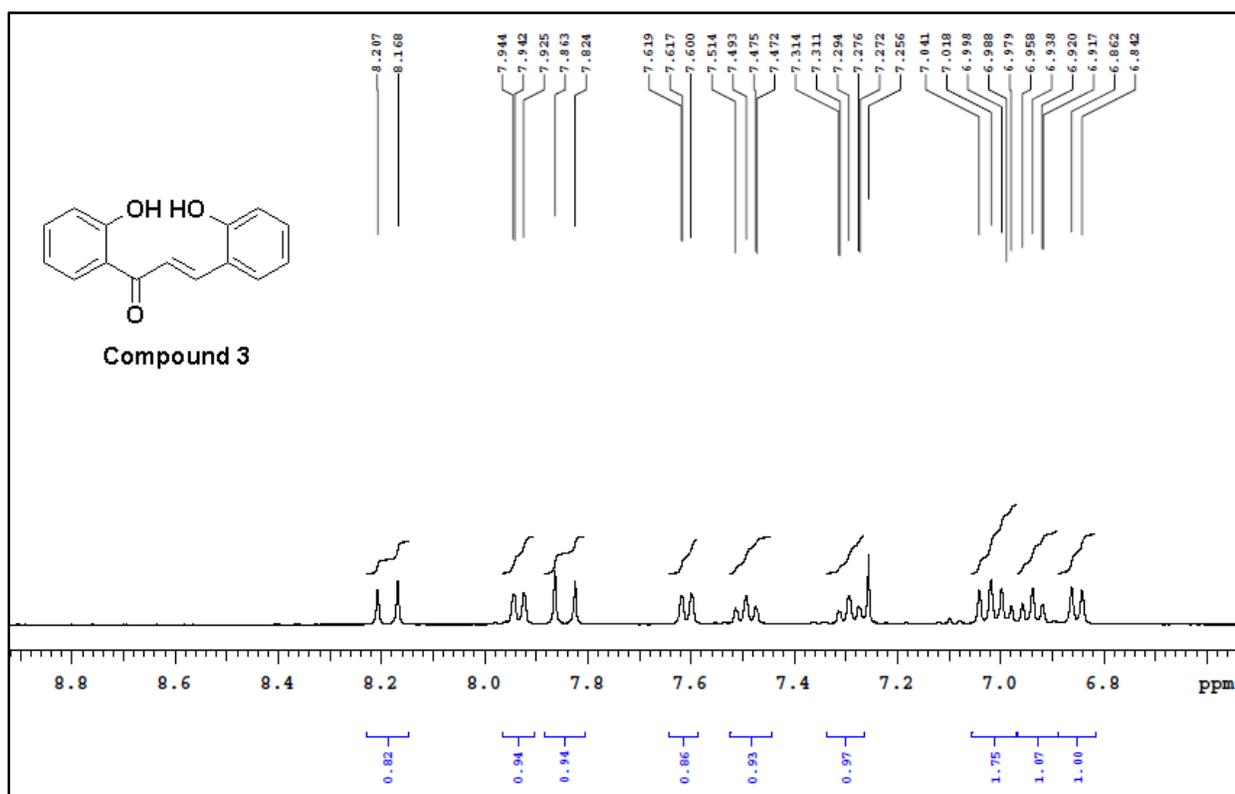


Figure S4: $^1\text{H-NMR}$ (400 MHz, CDCl_3) spectra of compound 3

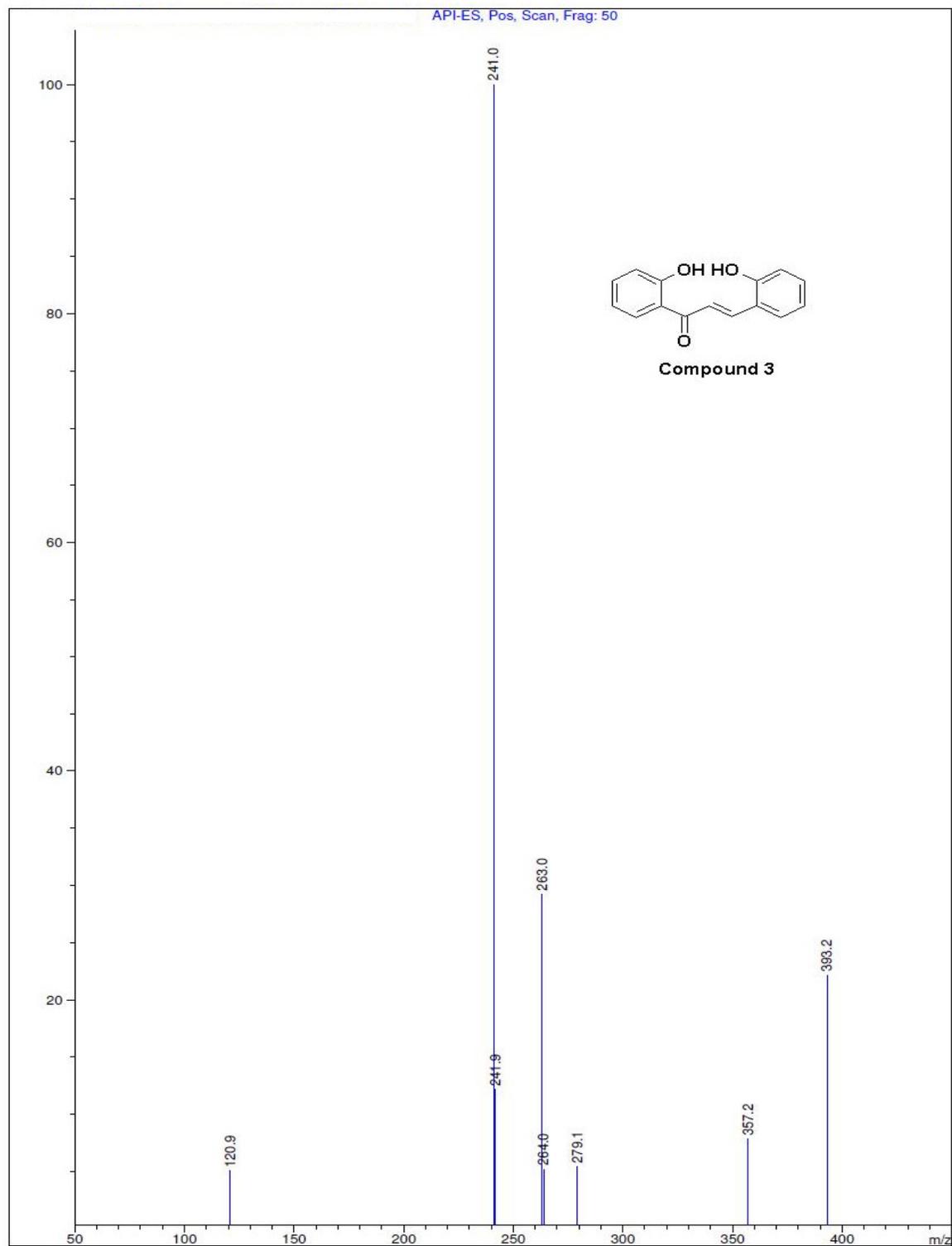


Figure S5: Mass spectra of compound 3

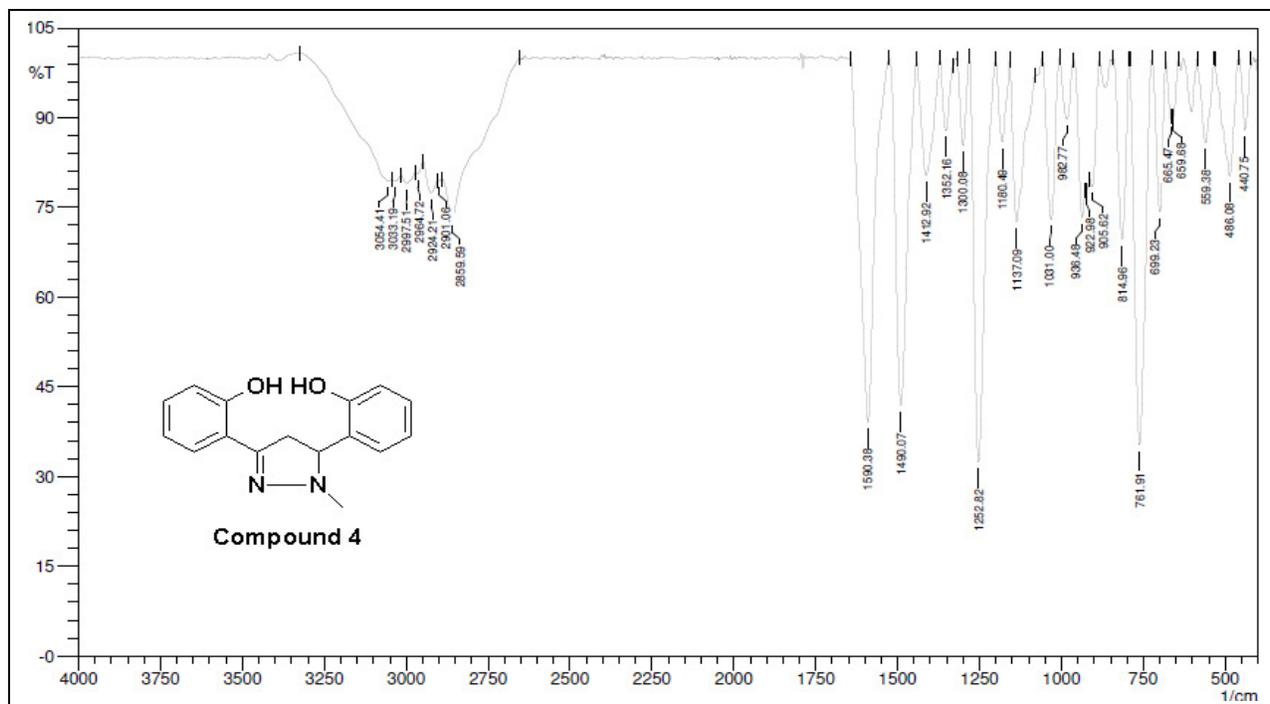


Figure S6: IR spectra of compound 4

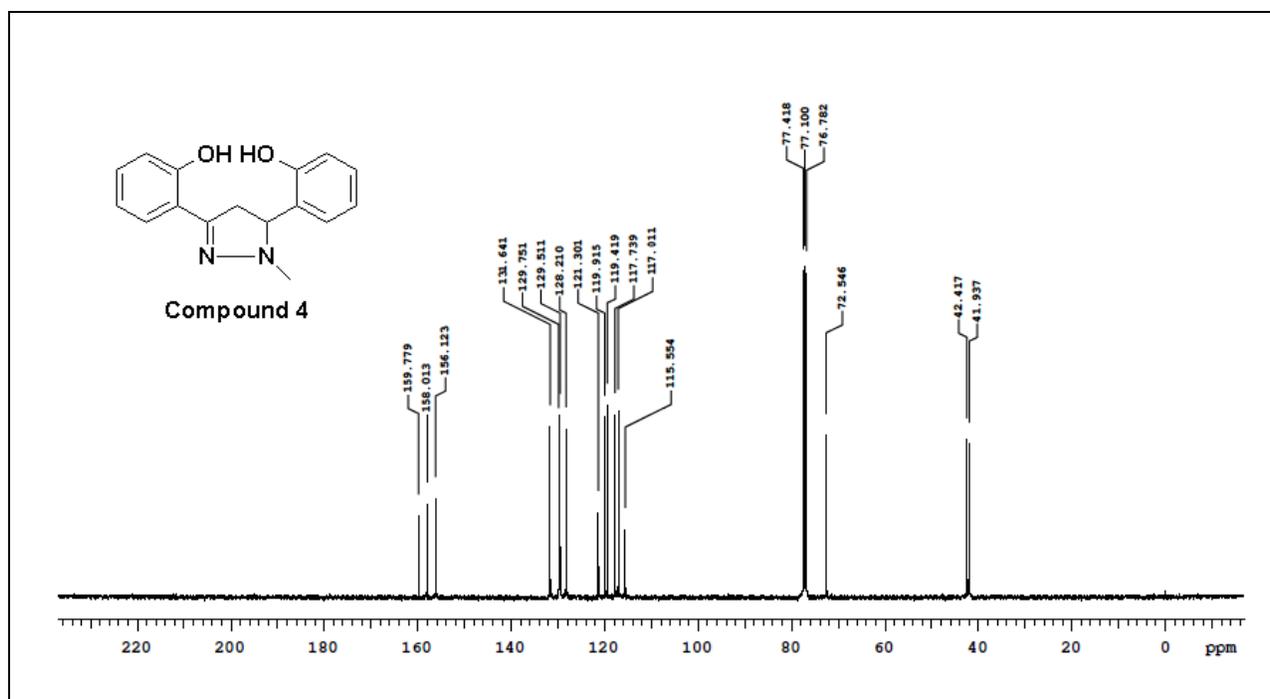


Figure S8: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound 4

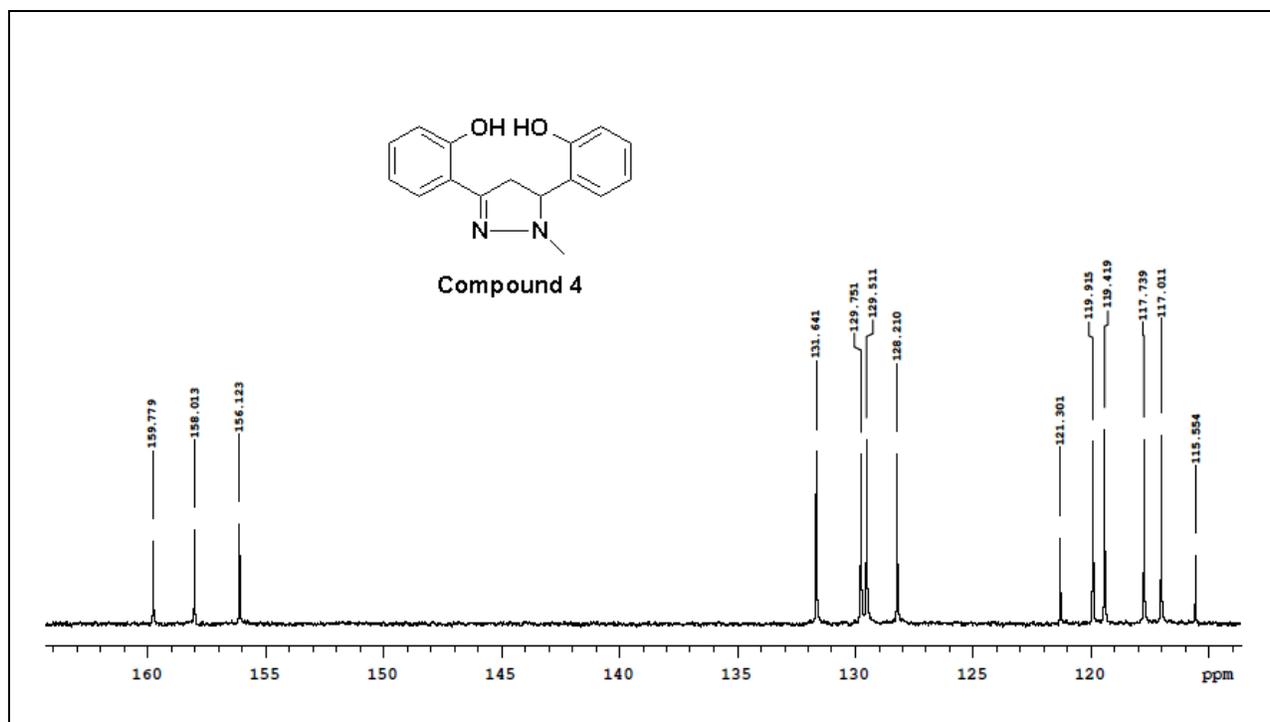


Figure S9: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound 4

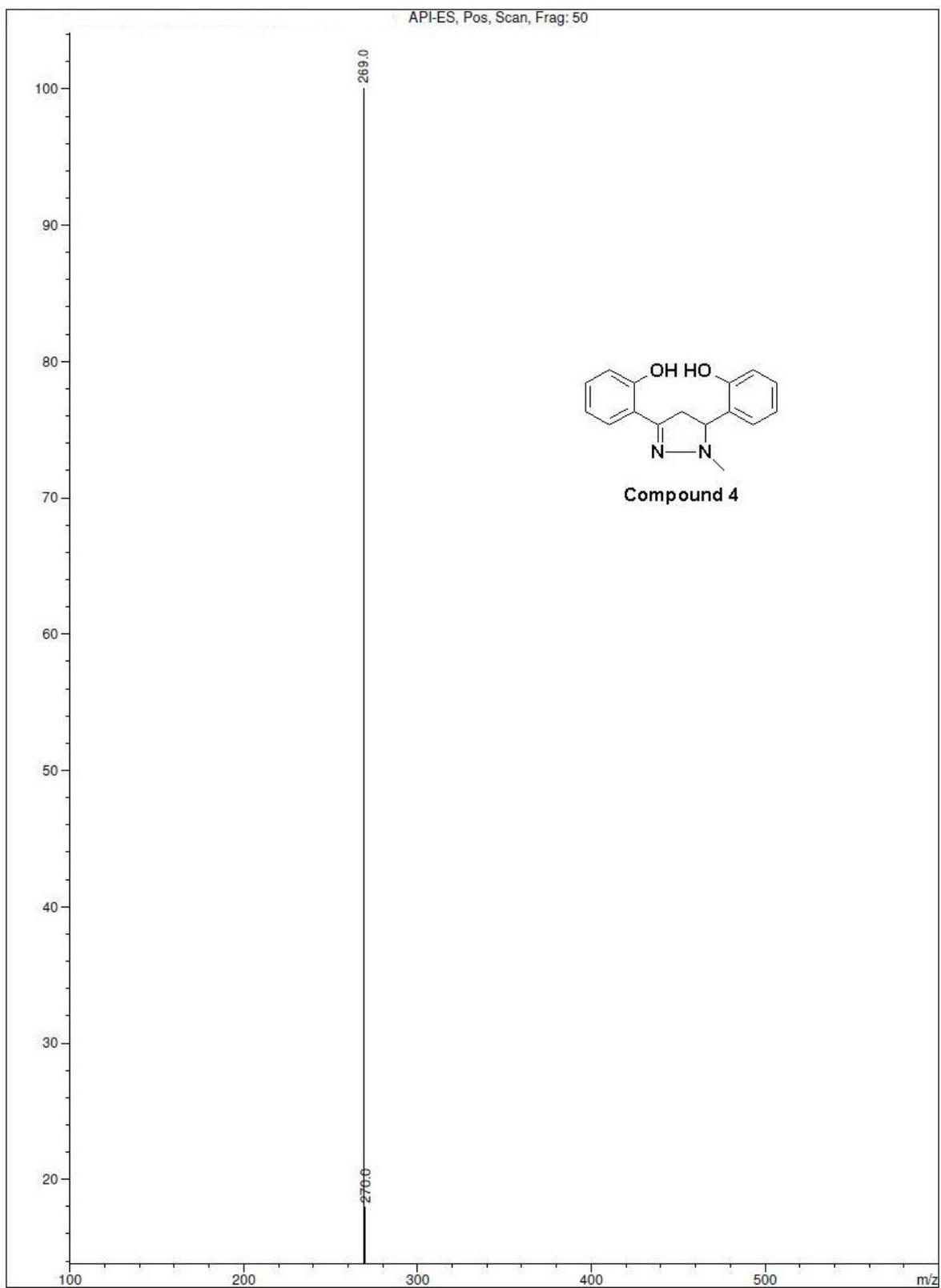


Figure S10: Mass spectra of compound 4

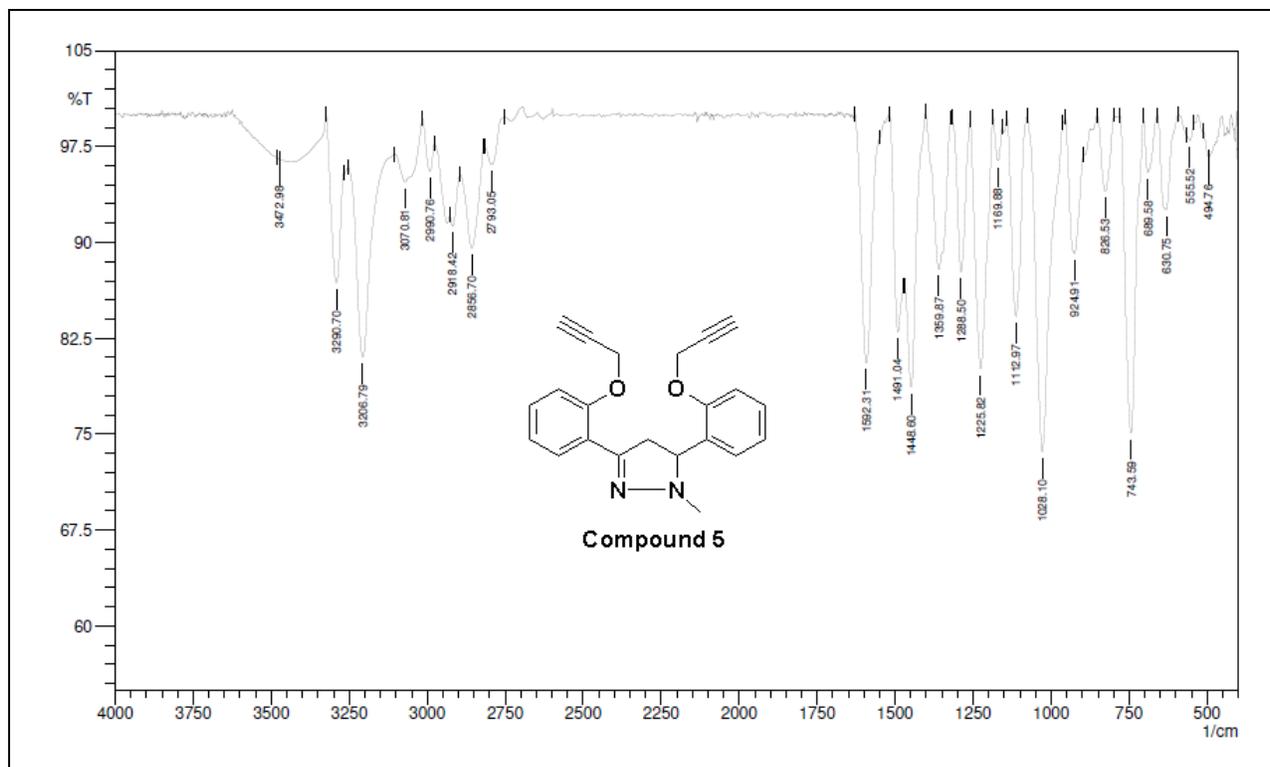
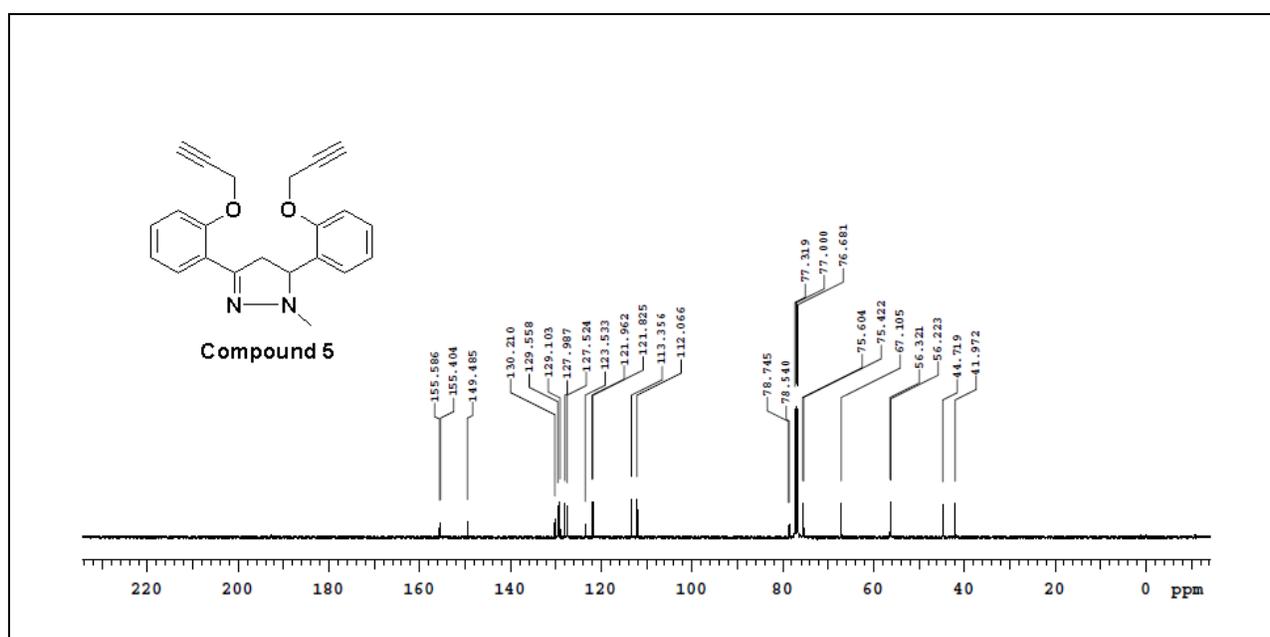
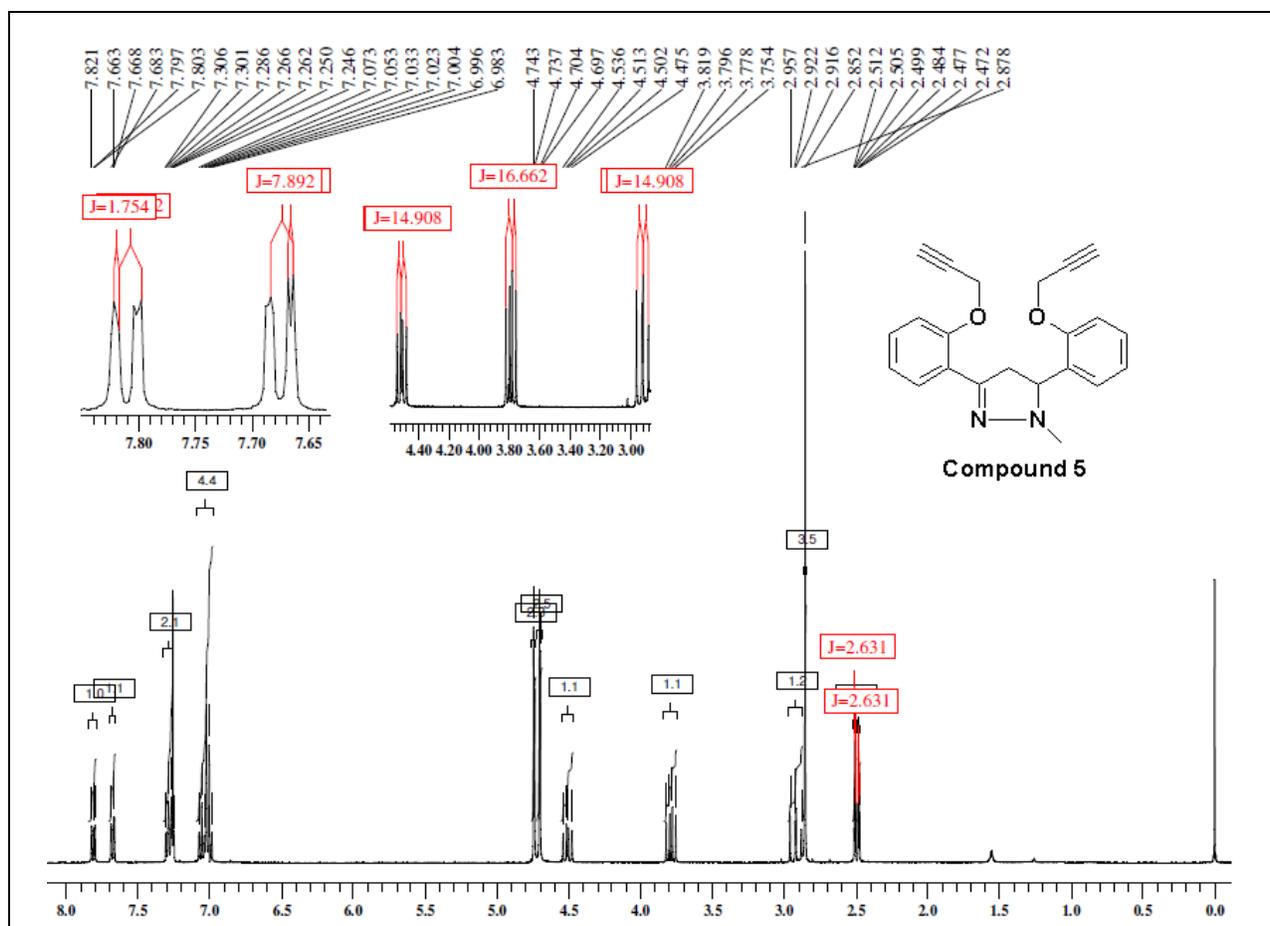


Figure S11: IR spectra of compound **5**



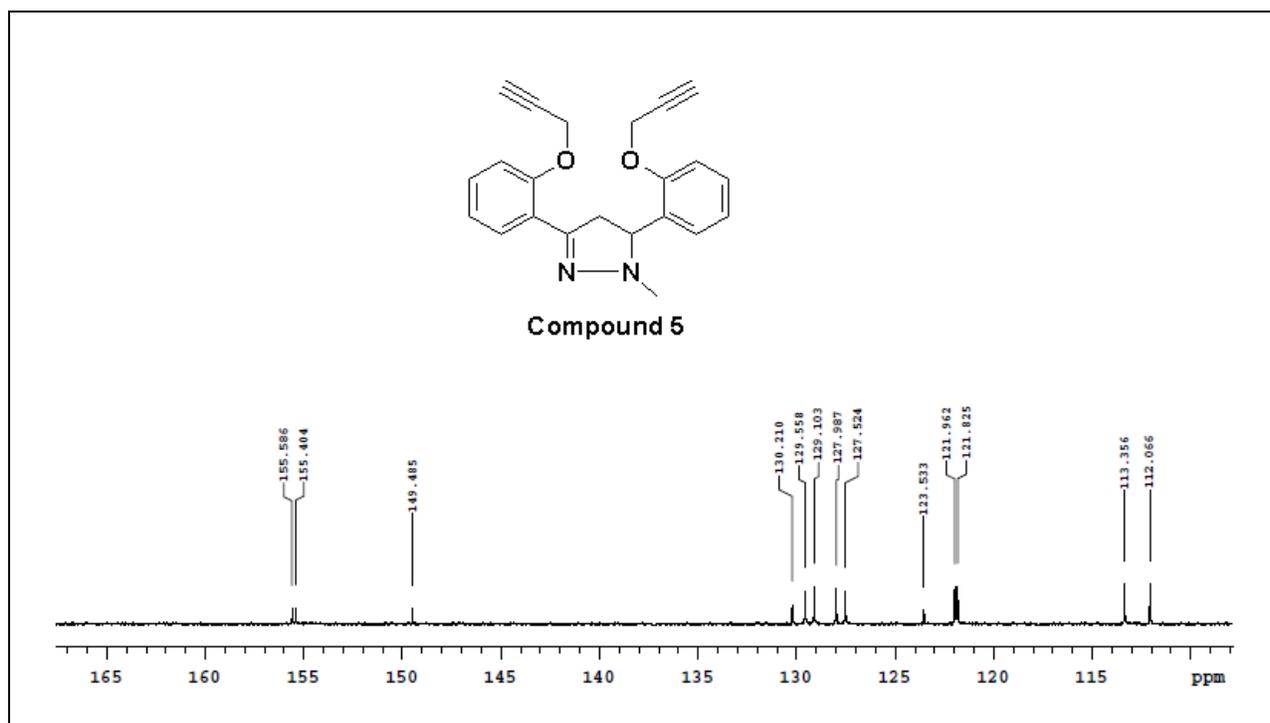


Figure S14: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **5**

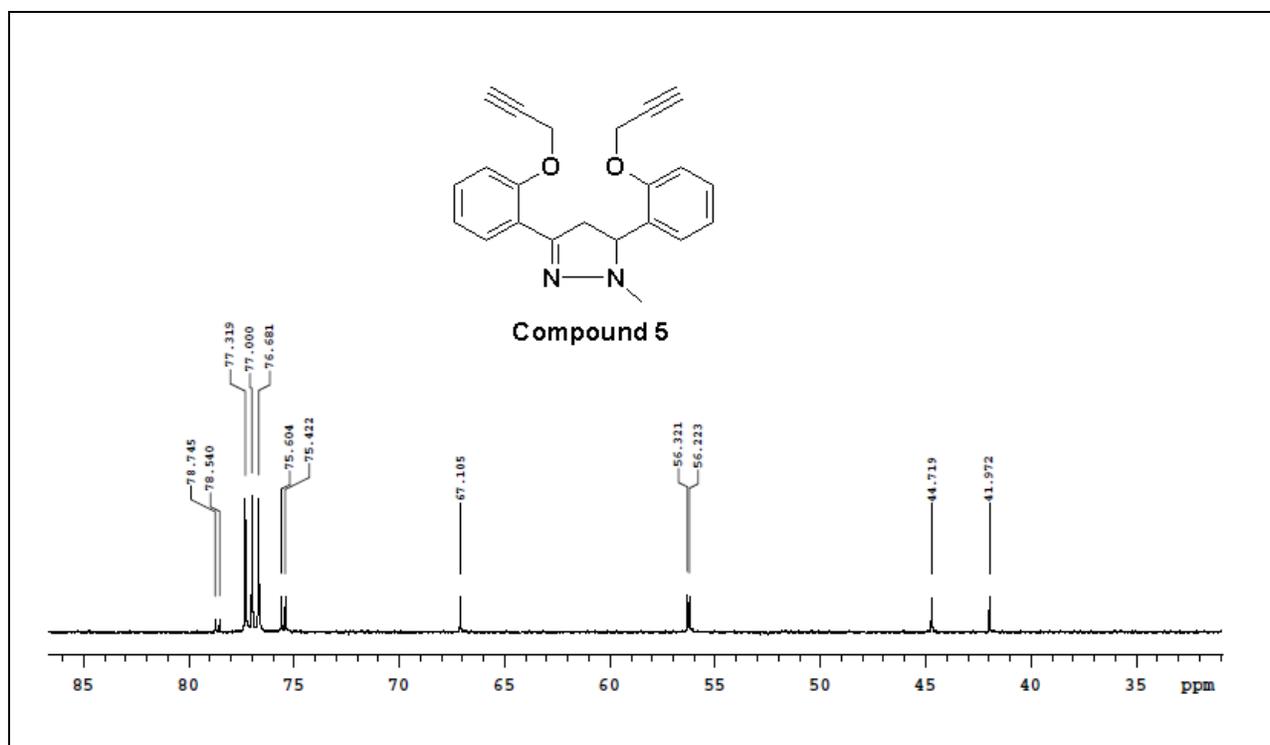


Figure S15: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **5**

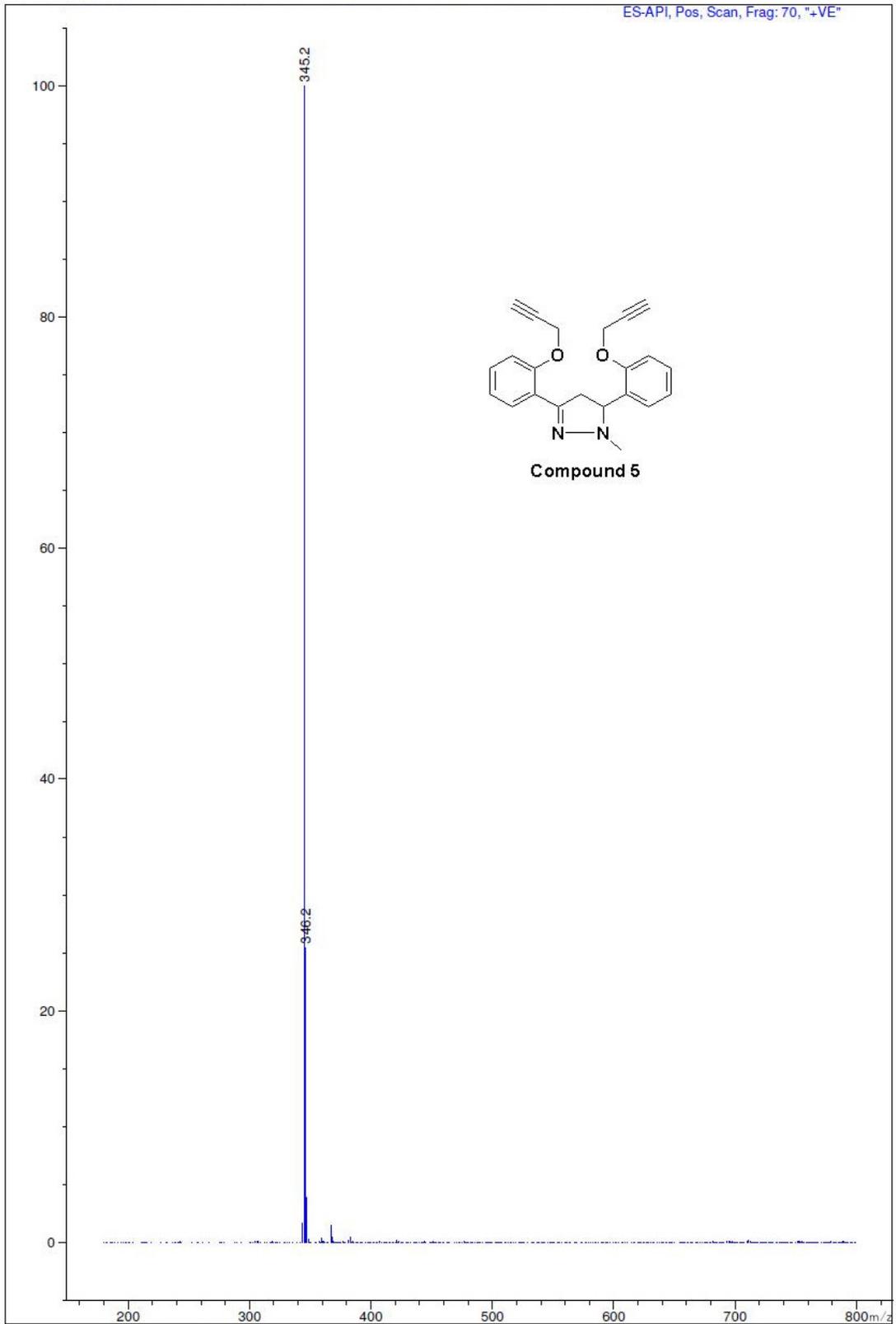


Figure S16: Mass spectra of compound 5

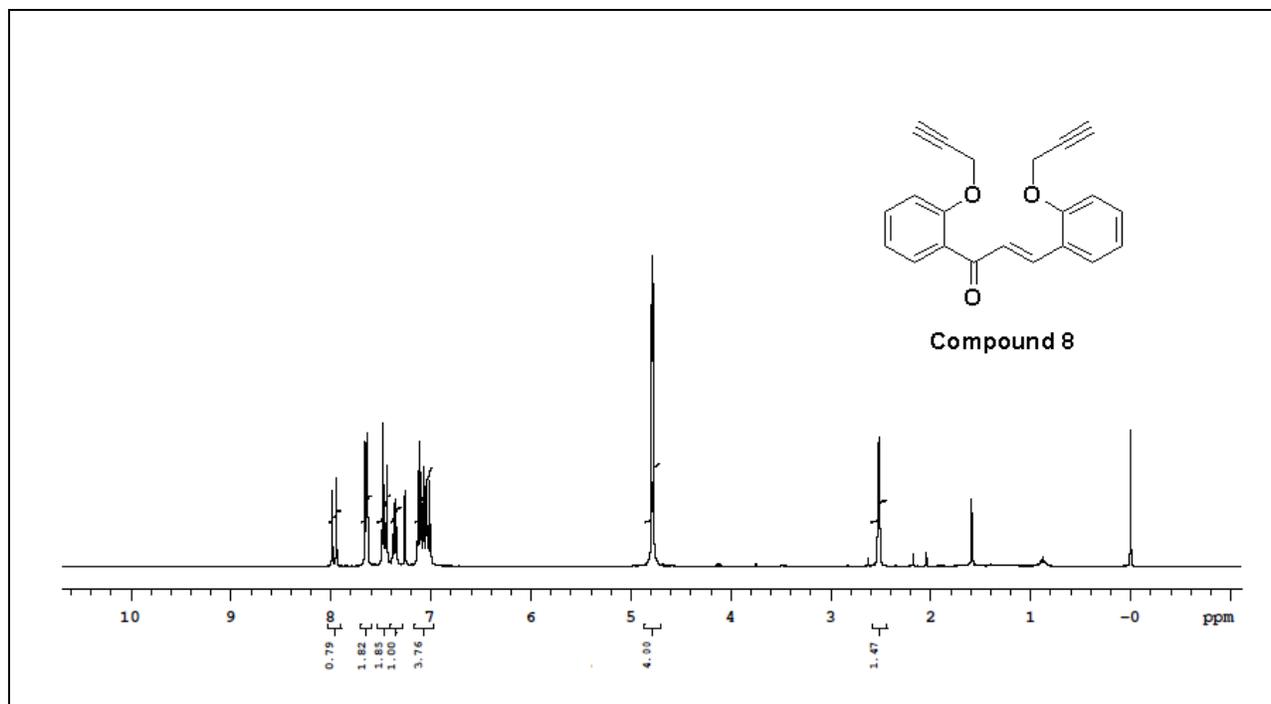


Figure S17: $^1\text{H-NMR}$ (400 MHz, CDCl_3) spectra of compound **8**

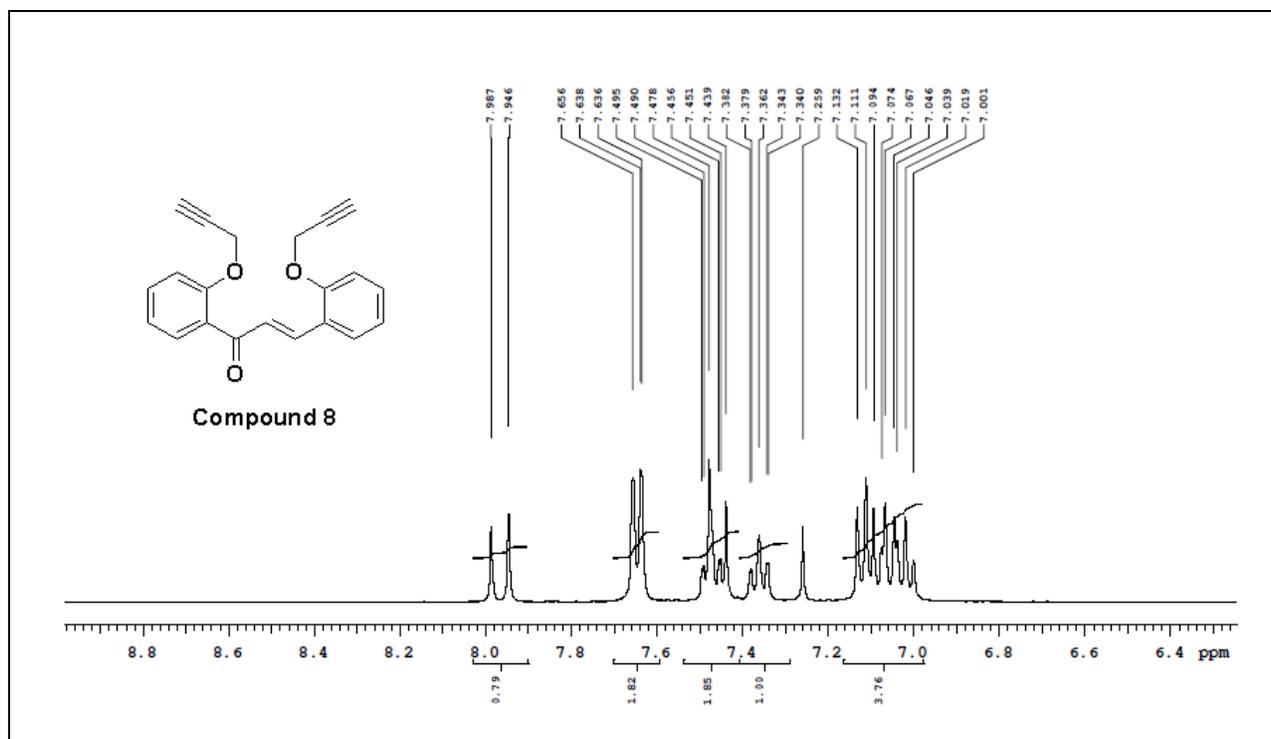


Figure S18: $^1\text{H-NMR}$ (400 MHz, CDCl_3) spectra of compound **8**

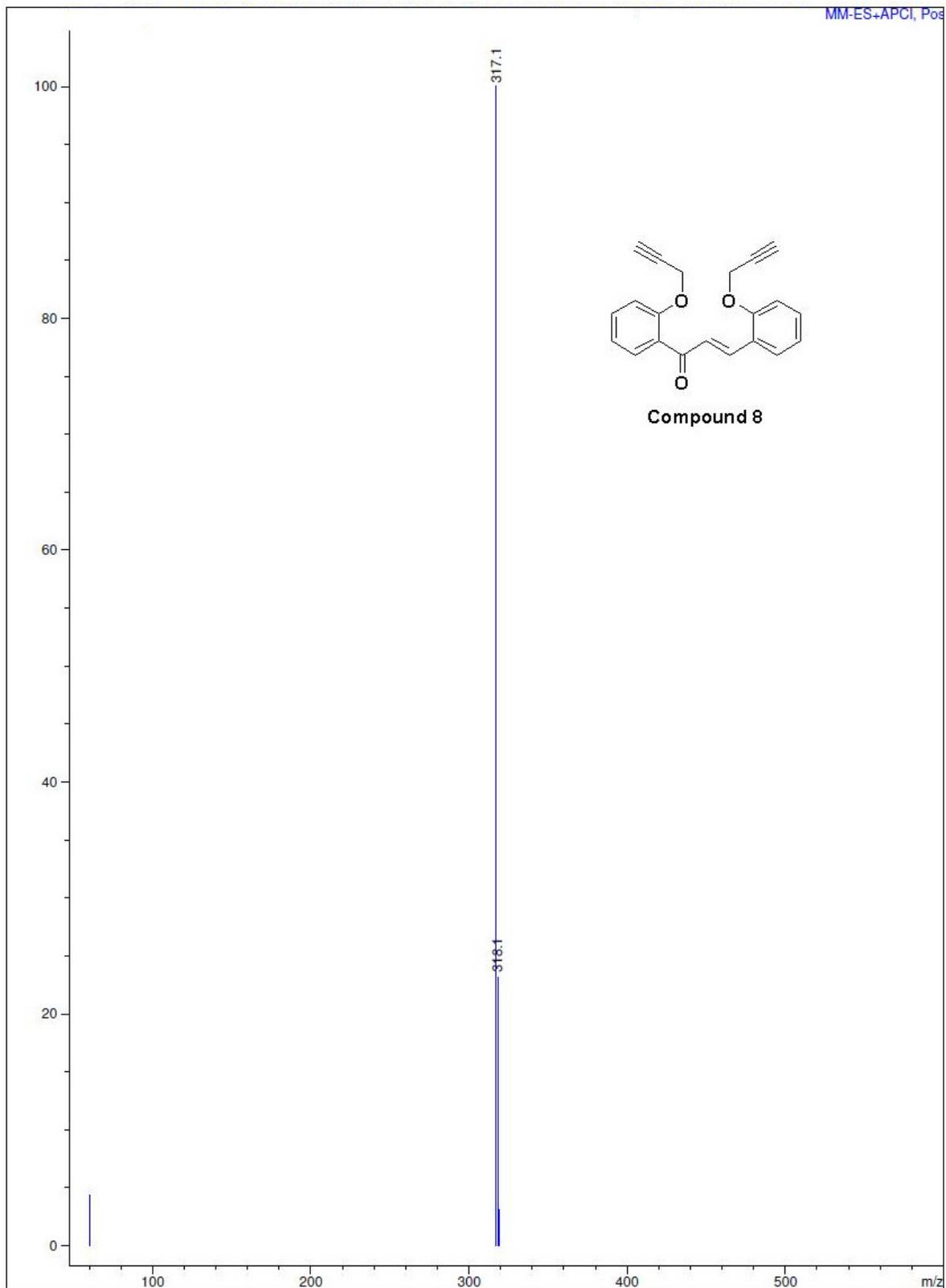


Figure S19: Mass spectra of compound **8**

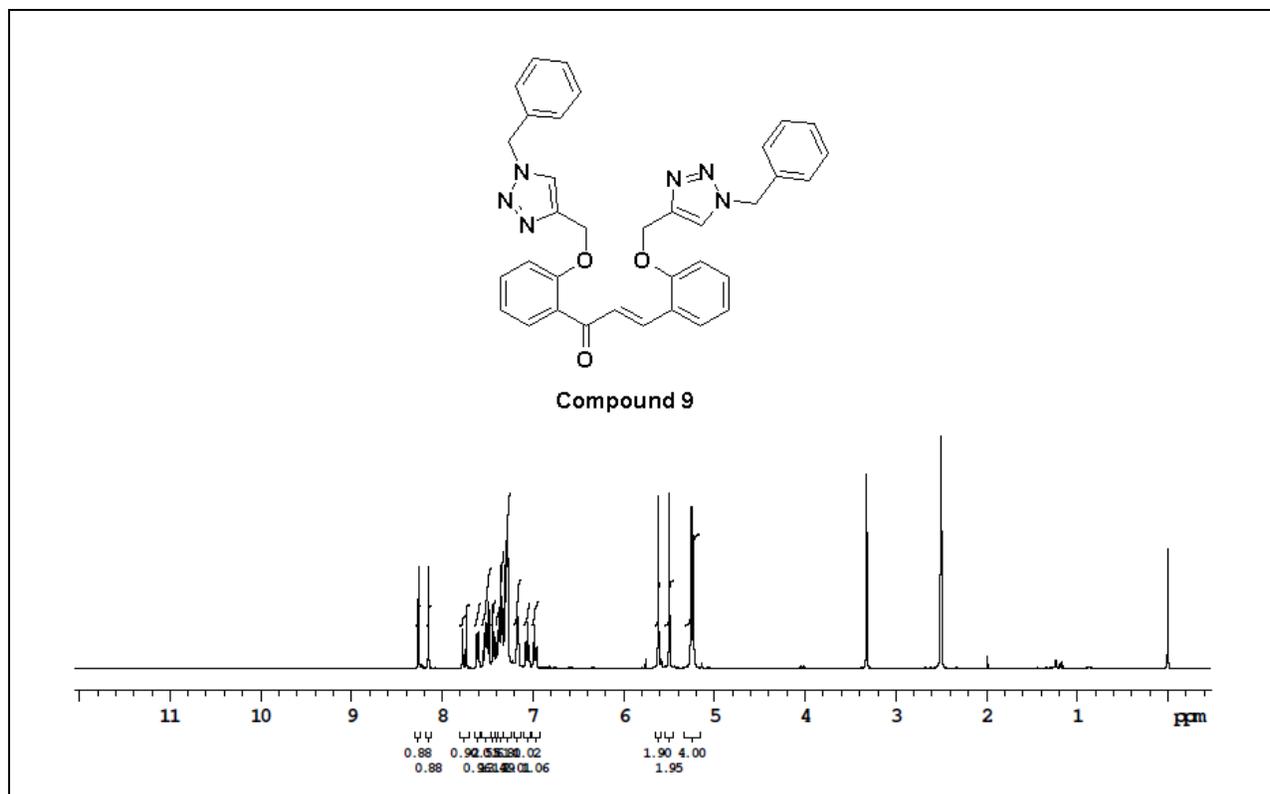


Figure S20: $^1\text{H-NMR}$ (400 MHz, DMSO-d_6) spectra of compound 9

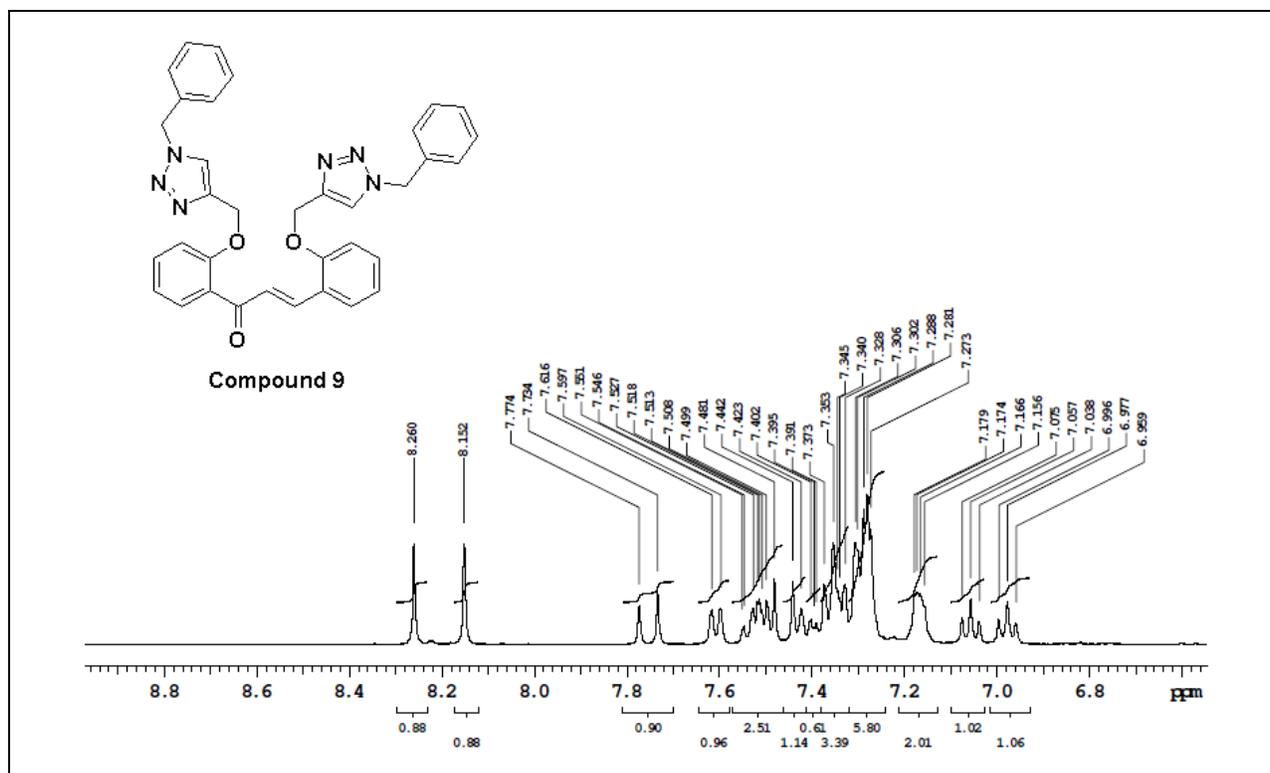


Figure S21: $^1\text{H-NMR}$ (400 MHz, DMSO-d_6) spectra of compound 9

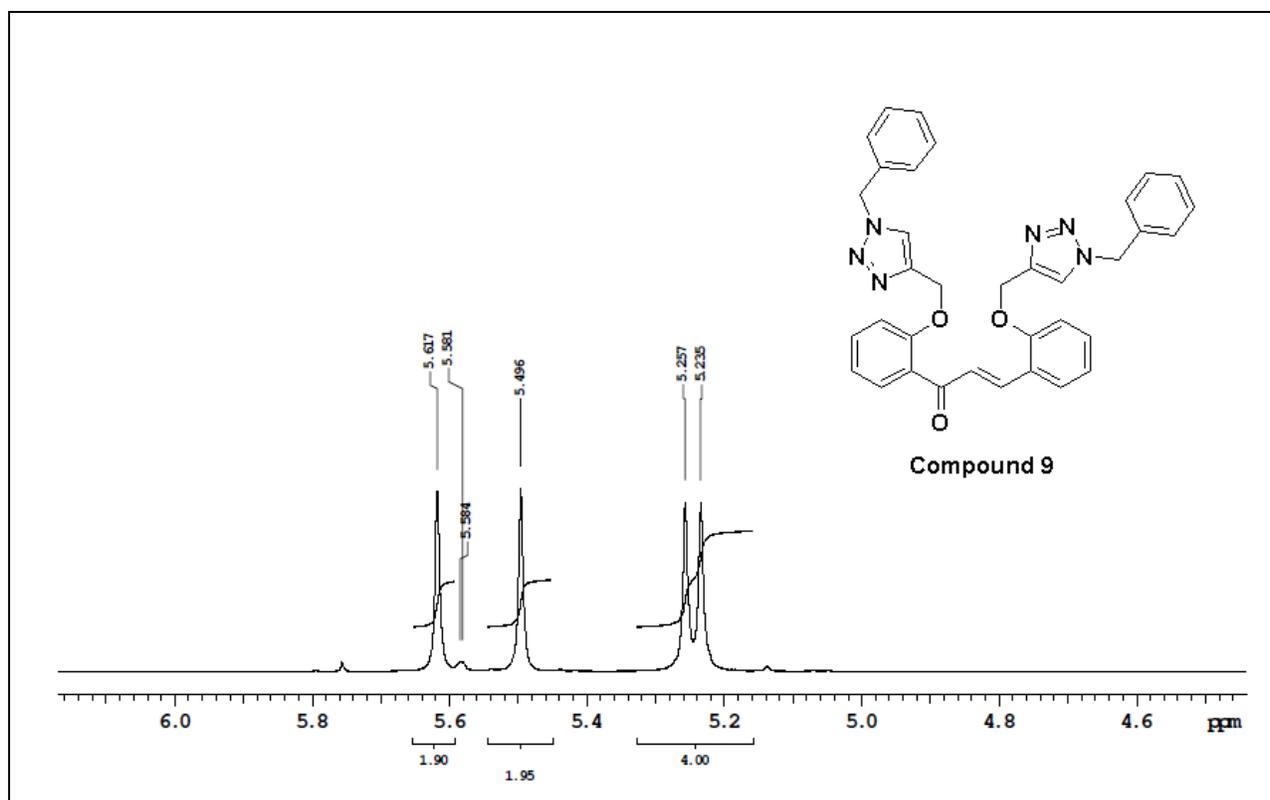


Figure S22: ¹H-NMR (400 MHz, DMSO-d₆) spectra of compound 9

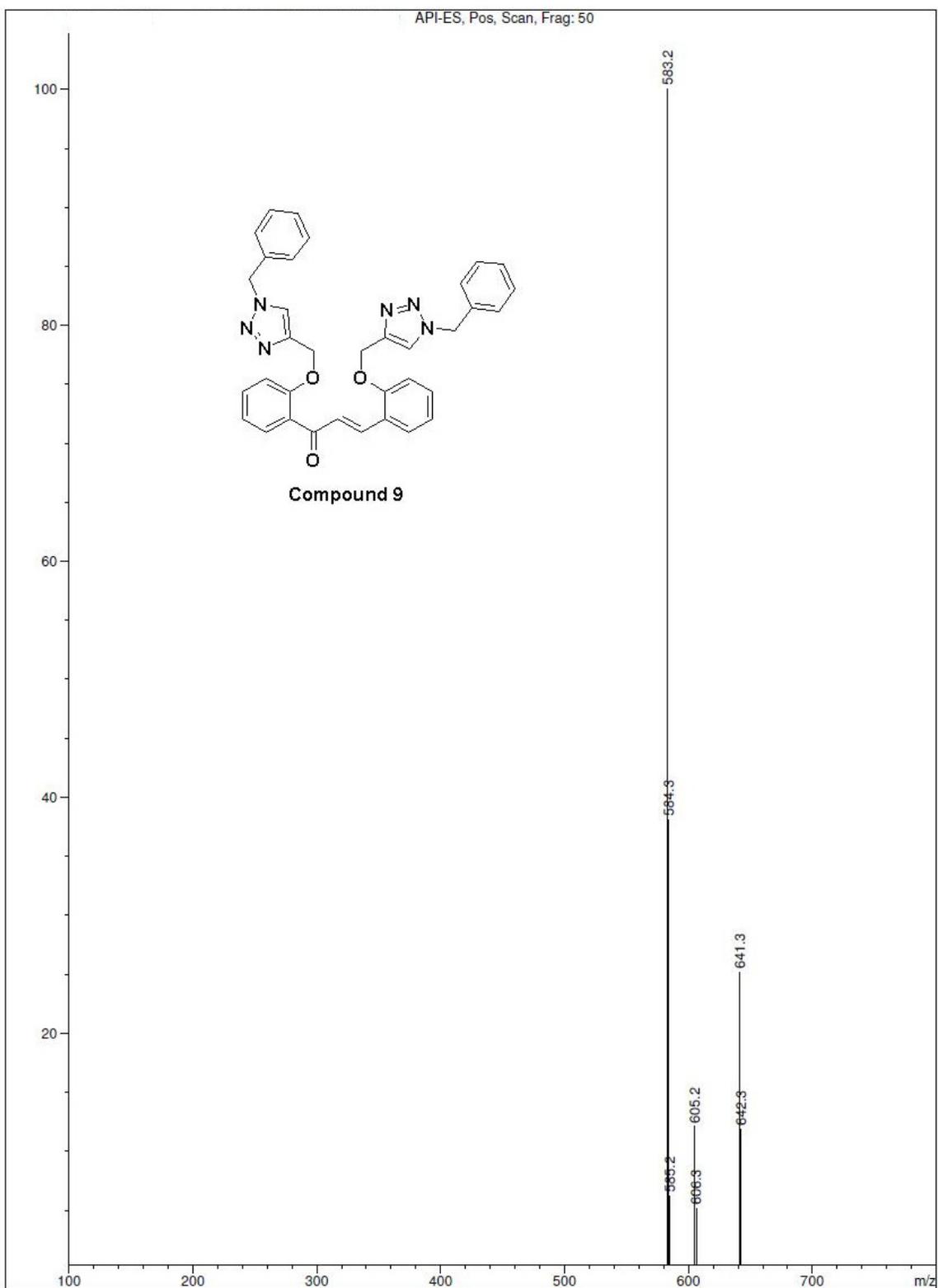


Figure S23: Mass spectra of compound 9

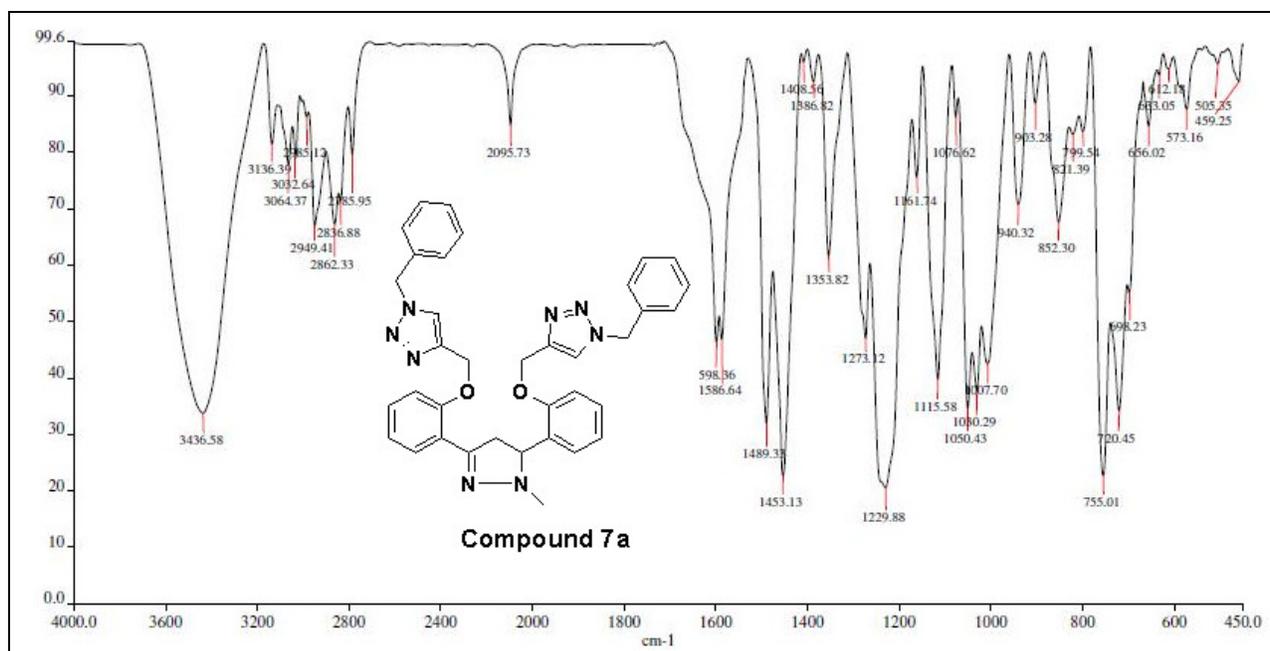


Figure S24: IR spectra of compound **7a**

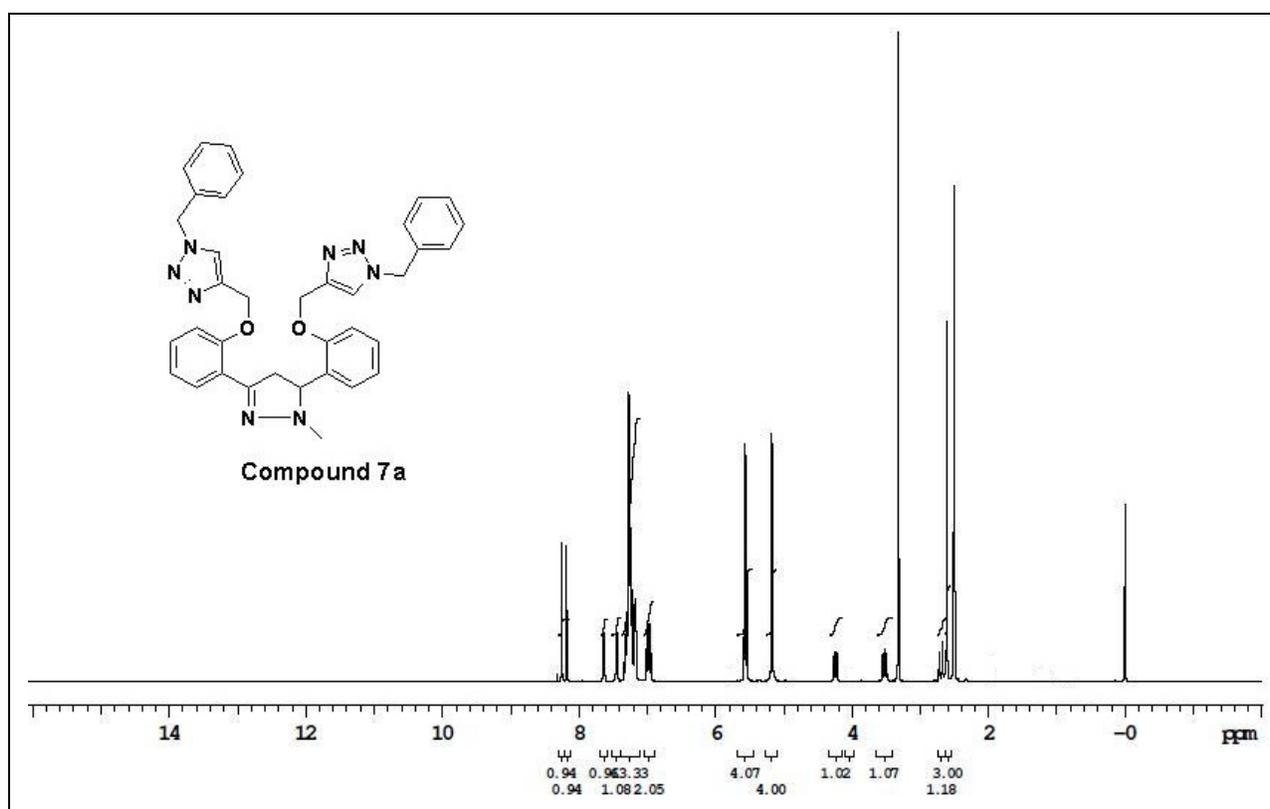


Figure S25: $^1\text{H-NMR}$ (400 MHz, DMSO-d_6) spectra of compound **7a**

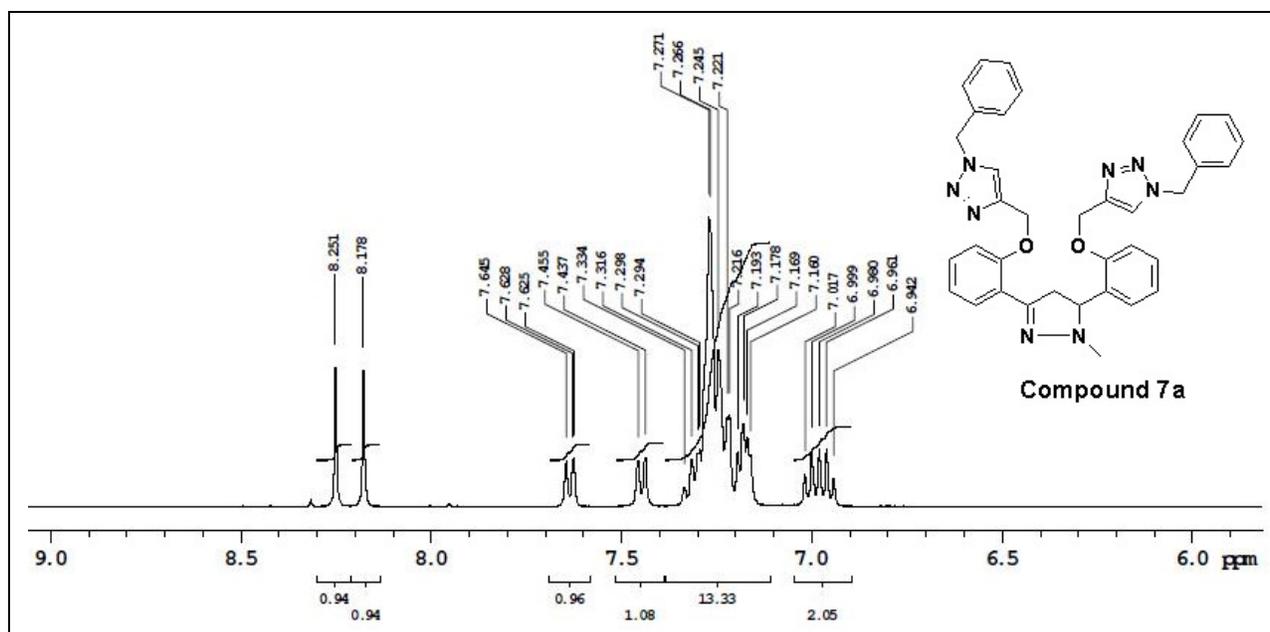


Figure S26: $^1\text{H-NMR}$ (400 MHz, DMSO-d_6) spectra of compound 7a

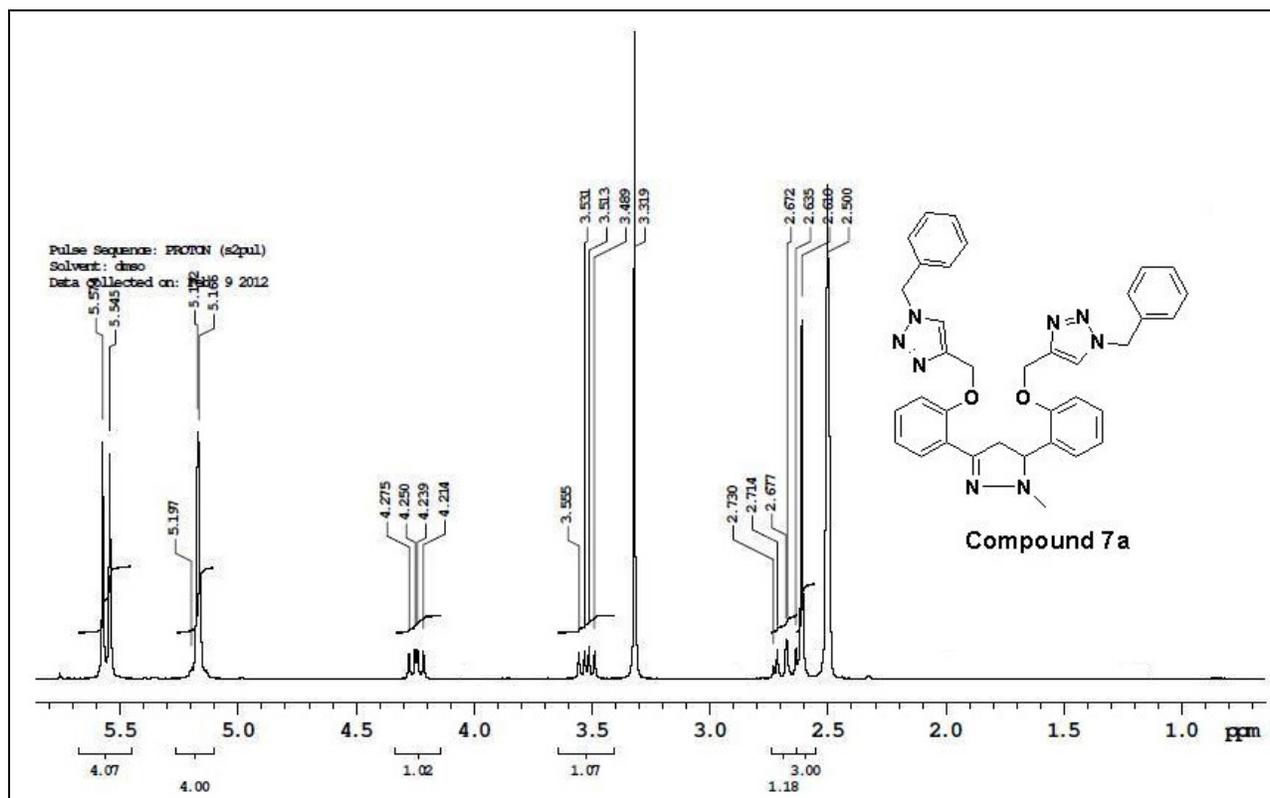


Figure S27: $^1\text{H-NMR}$ (400 MHz, DMSO-d_6) spectra of compound 7a

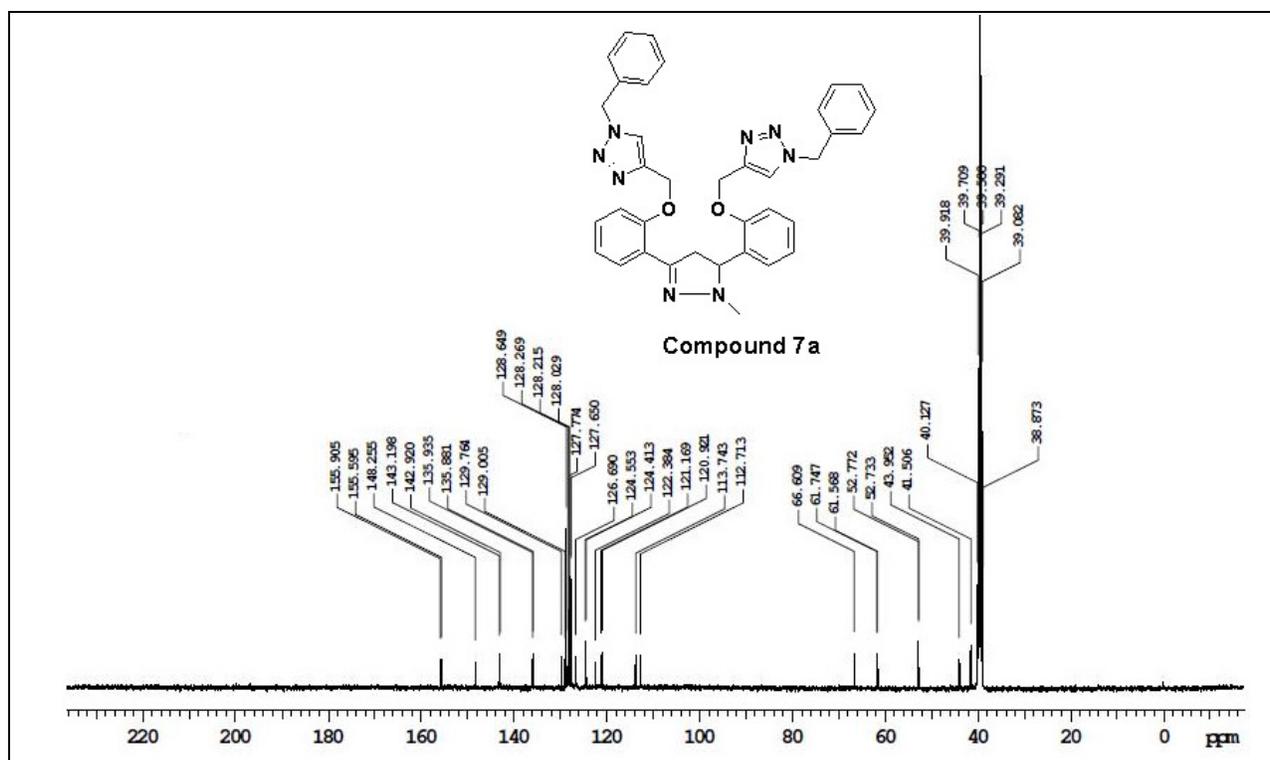


Figure S28: ^{13}C NMR (100 MHz, DMSO-d_6) spectra of compound **7a**

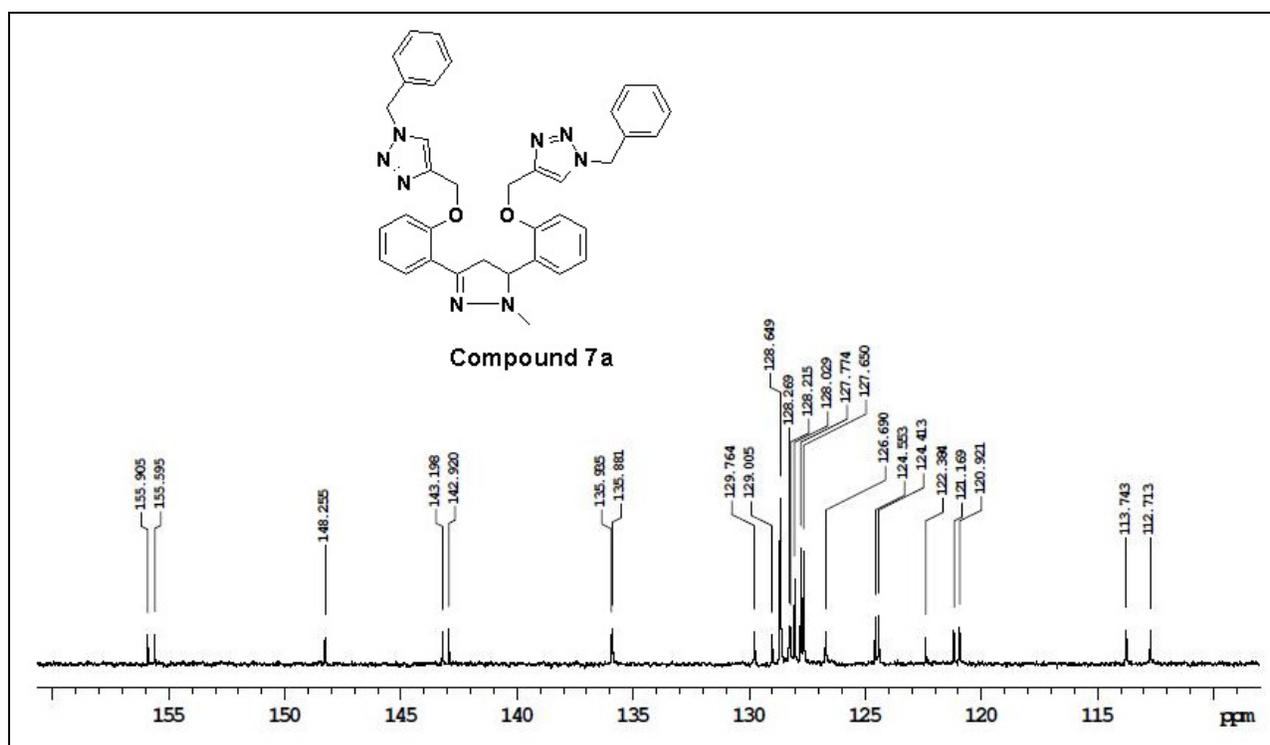


Figure S29: ^{13}C NMR (100 MHz, DMSO-d_6) spectra of compound **7a**

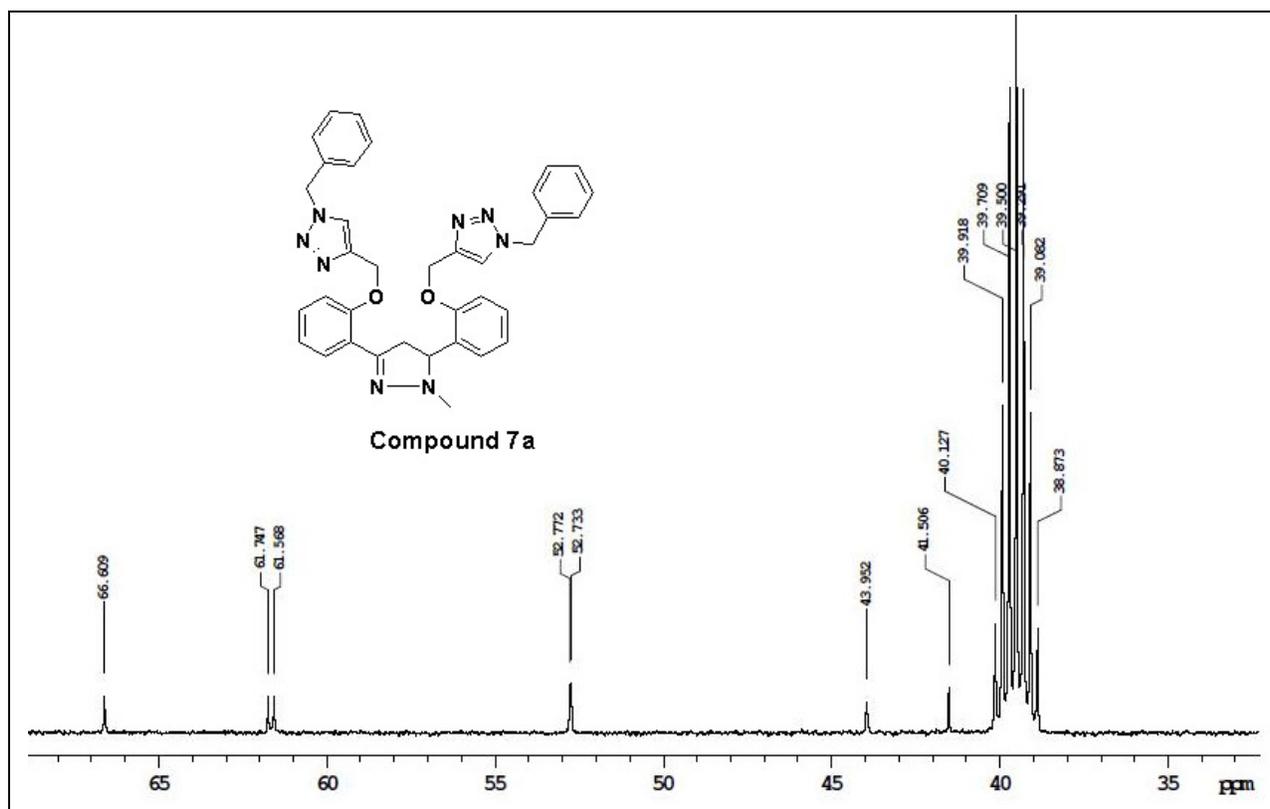


Figure S30: ^{13}C NMR (100 MHz, DMSO- d_6) spectra of compound **7a**

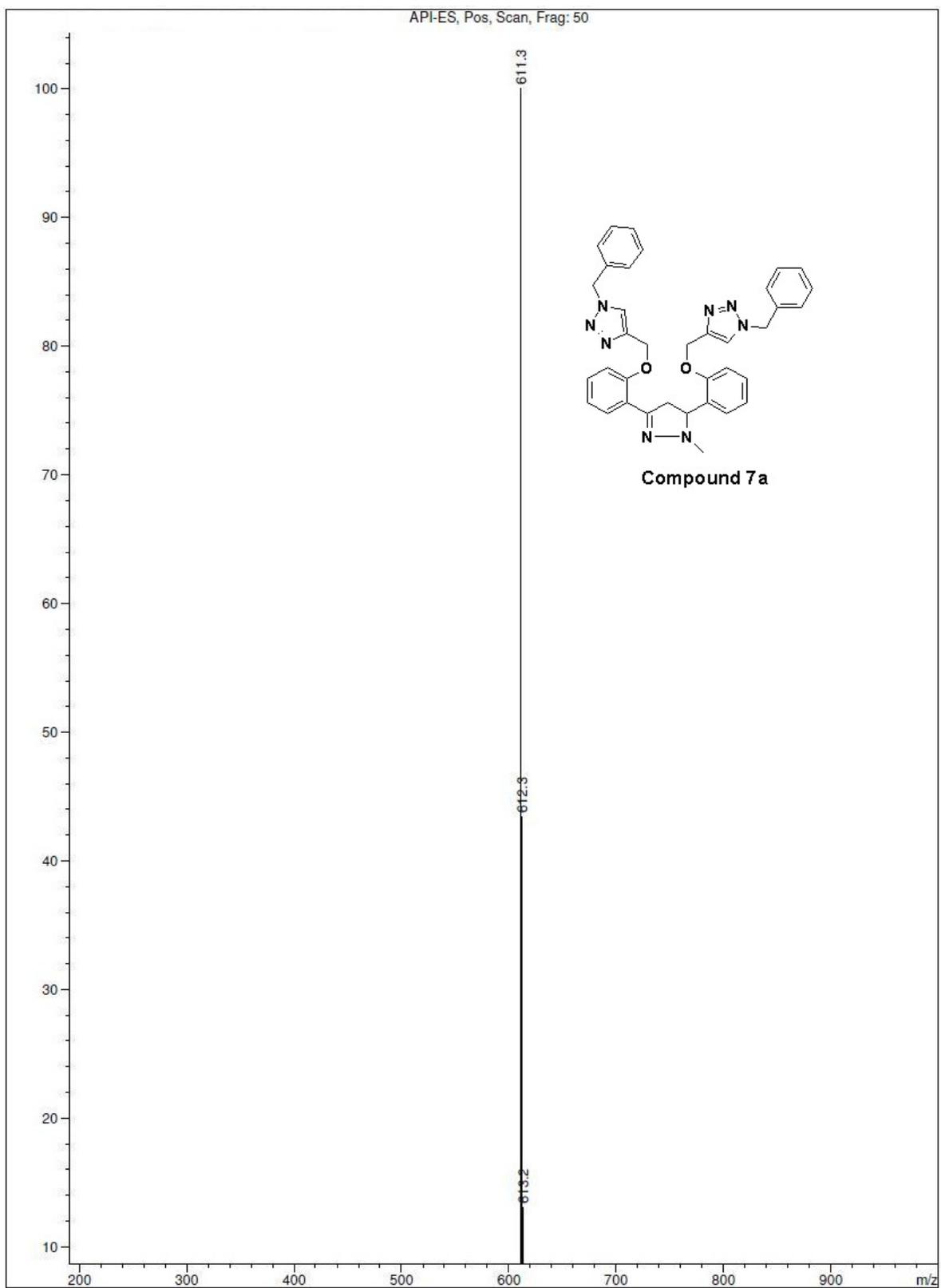


Figure S31: Mass spectra of compound 7a

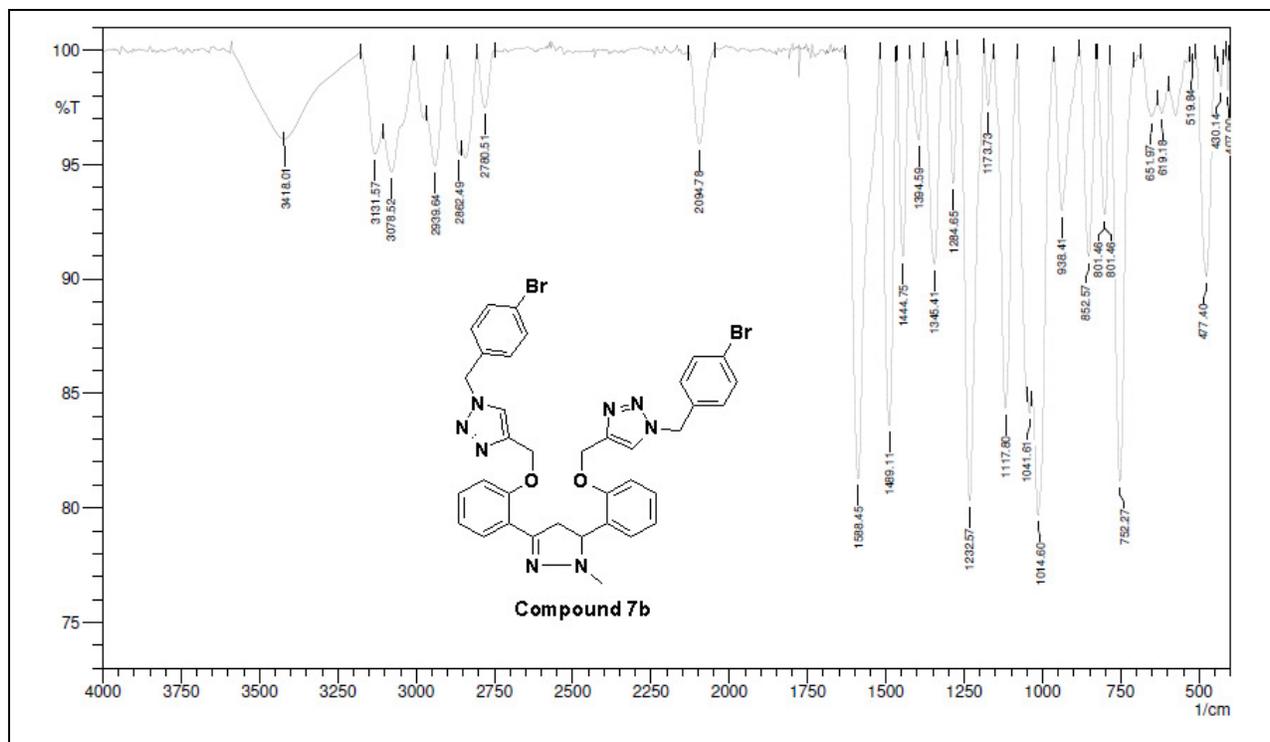
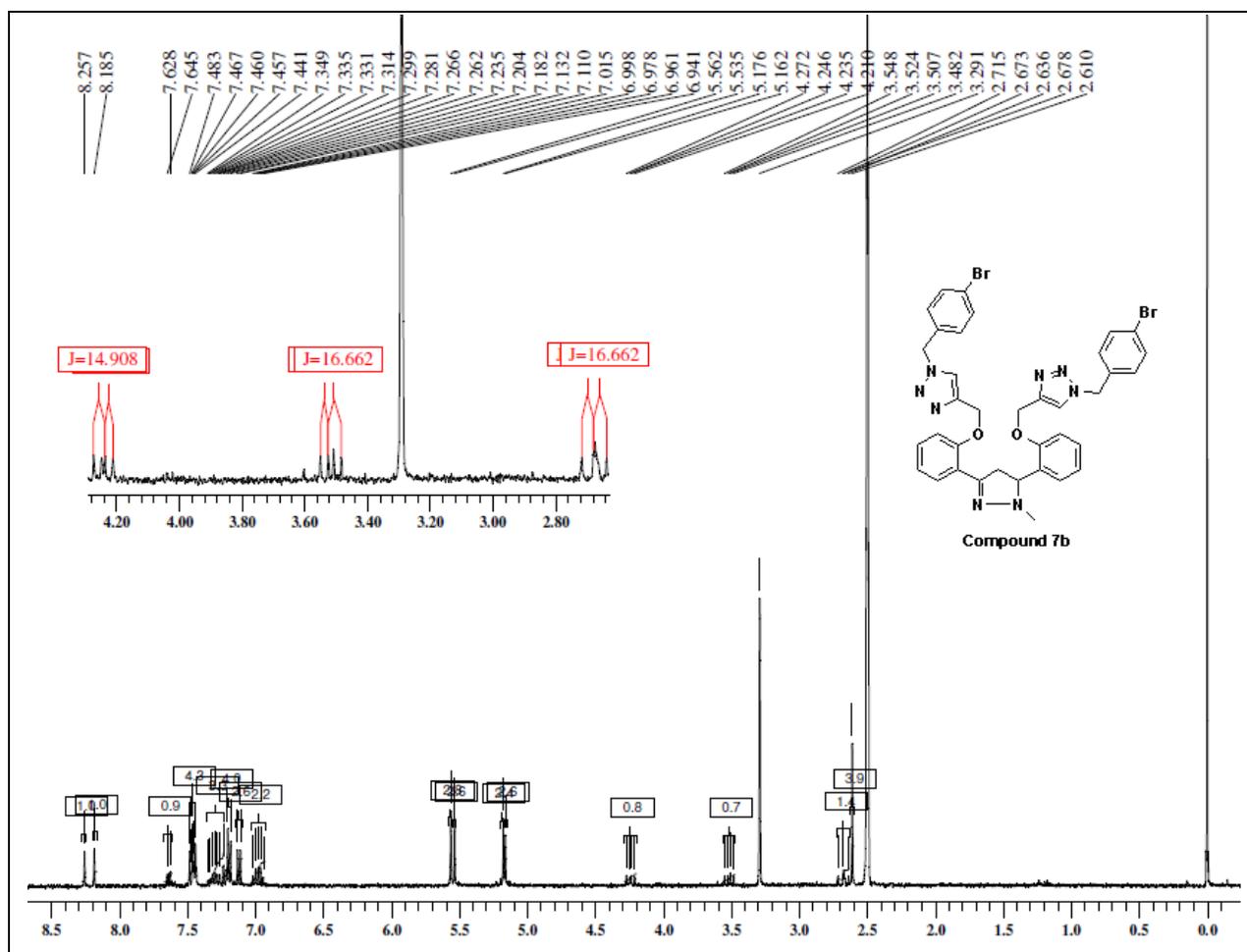


Figure S32: IR spectra of compound 7b



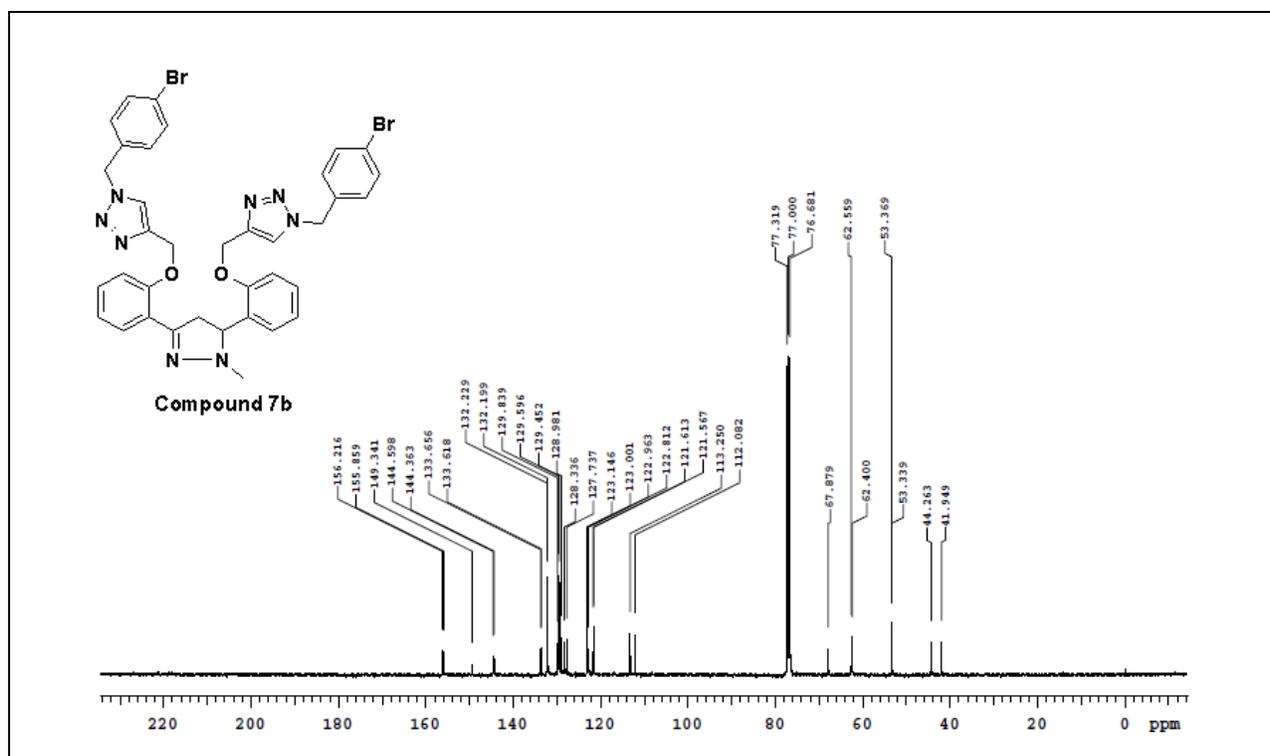


Figure S34: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **7b**

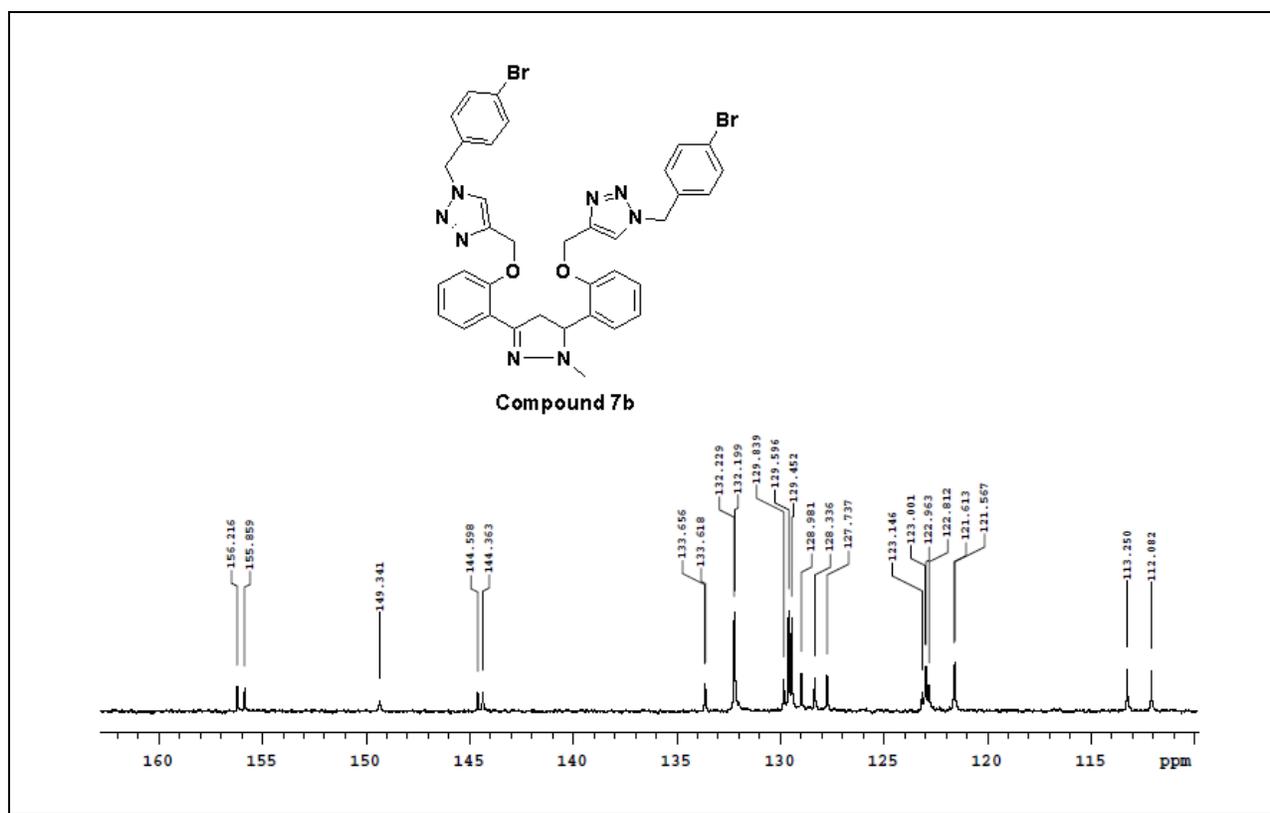


Figure S35: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **7b**

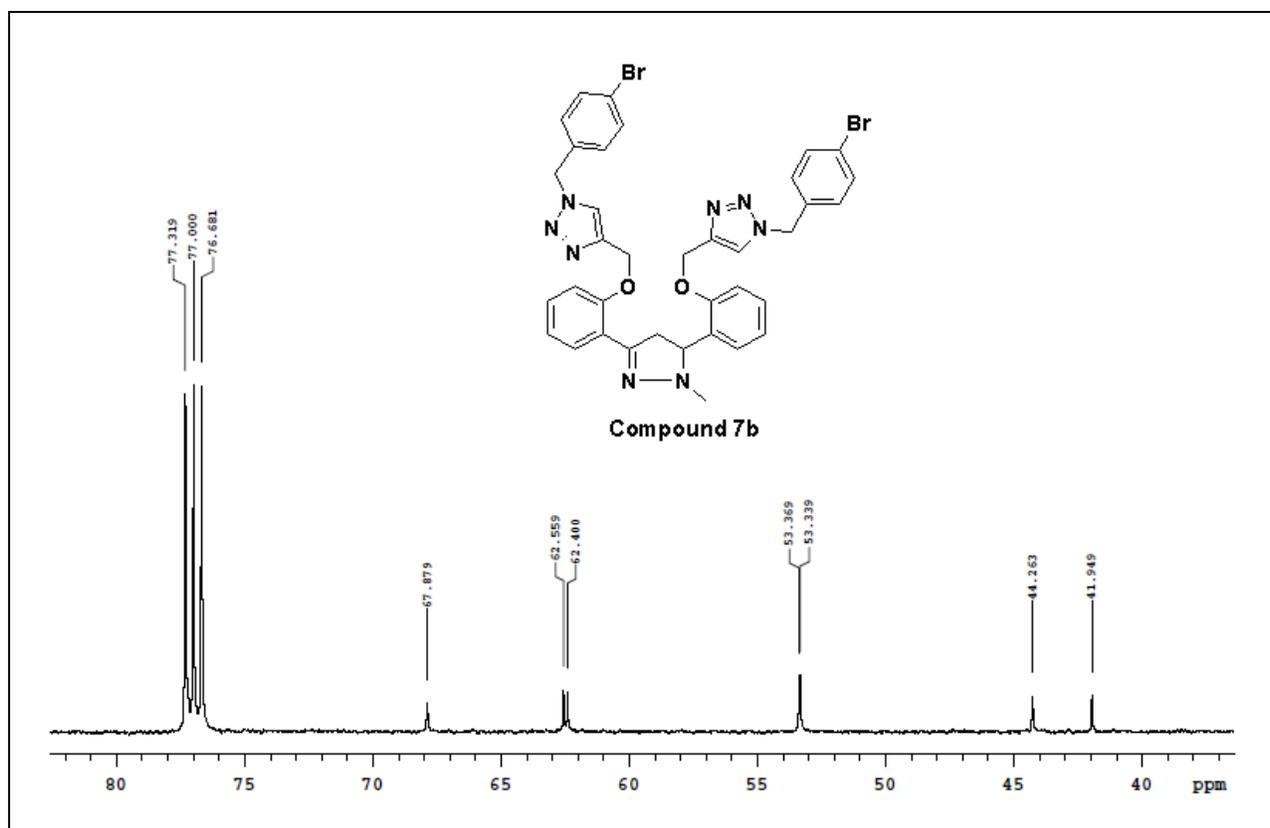


Figure S36: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound 7b

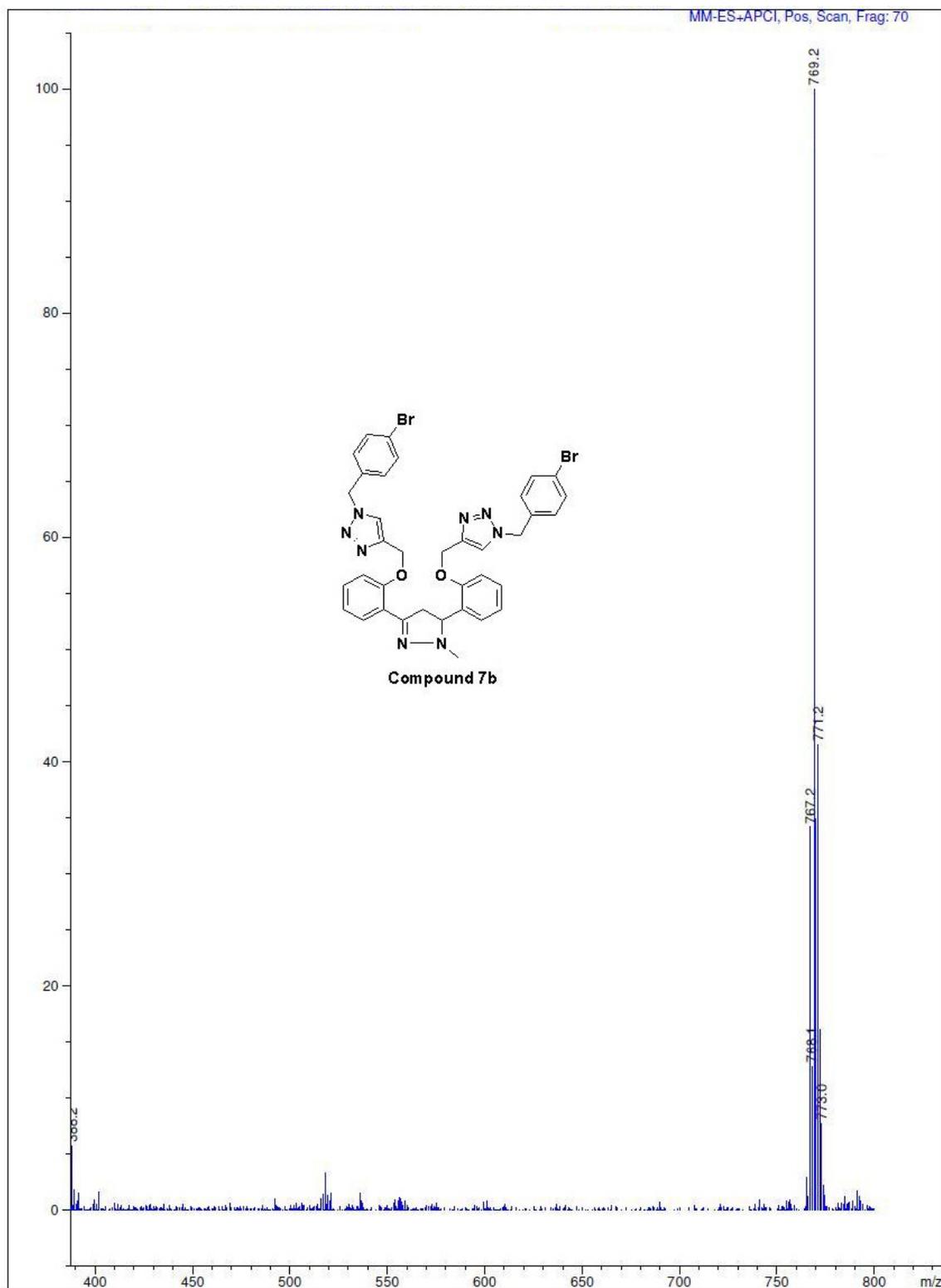


Figure S37: Mass spectra of compound 7b

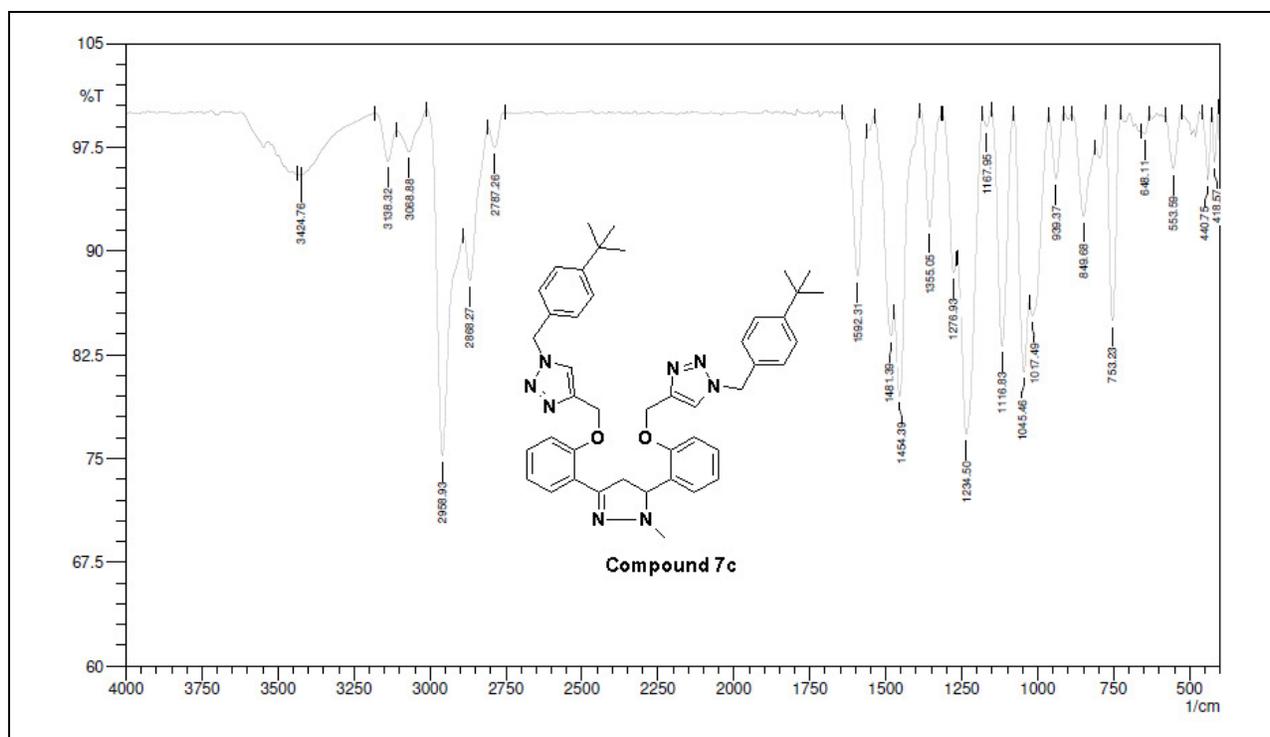


Figure S38: IR spectra of compound **7c**

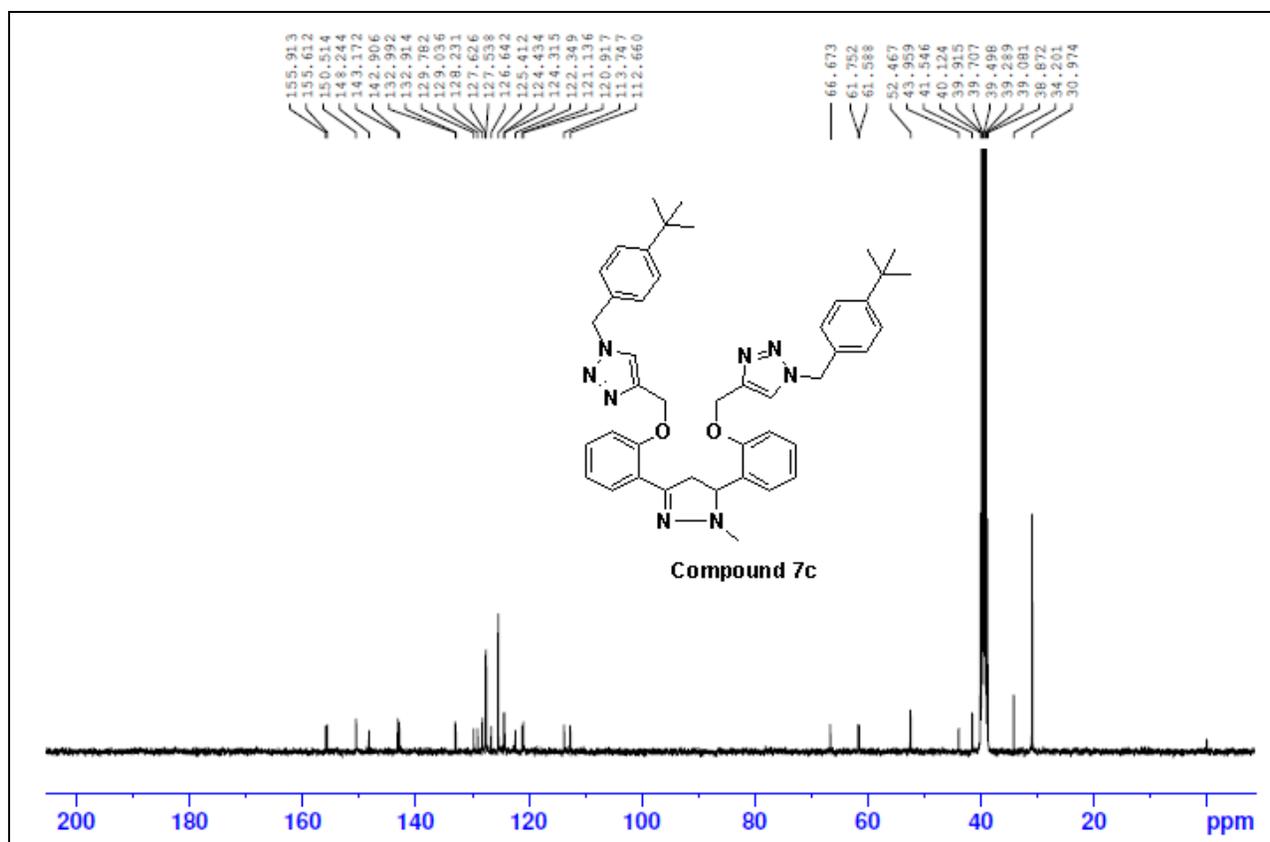


Figure S40: ¹³C NMR (100 MHz, DMSO-d₆) spectra of compound 7c

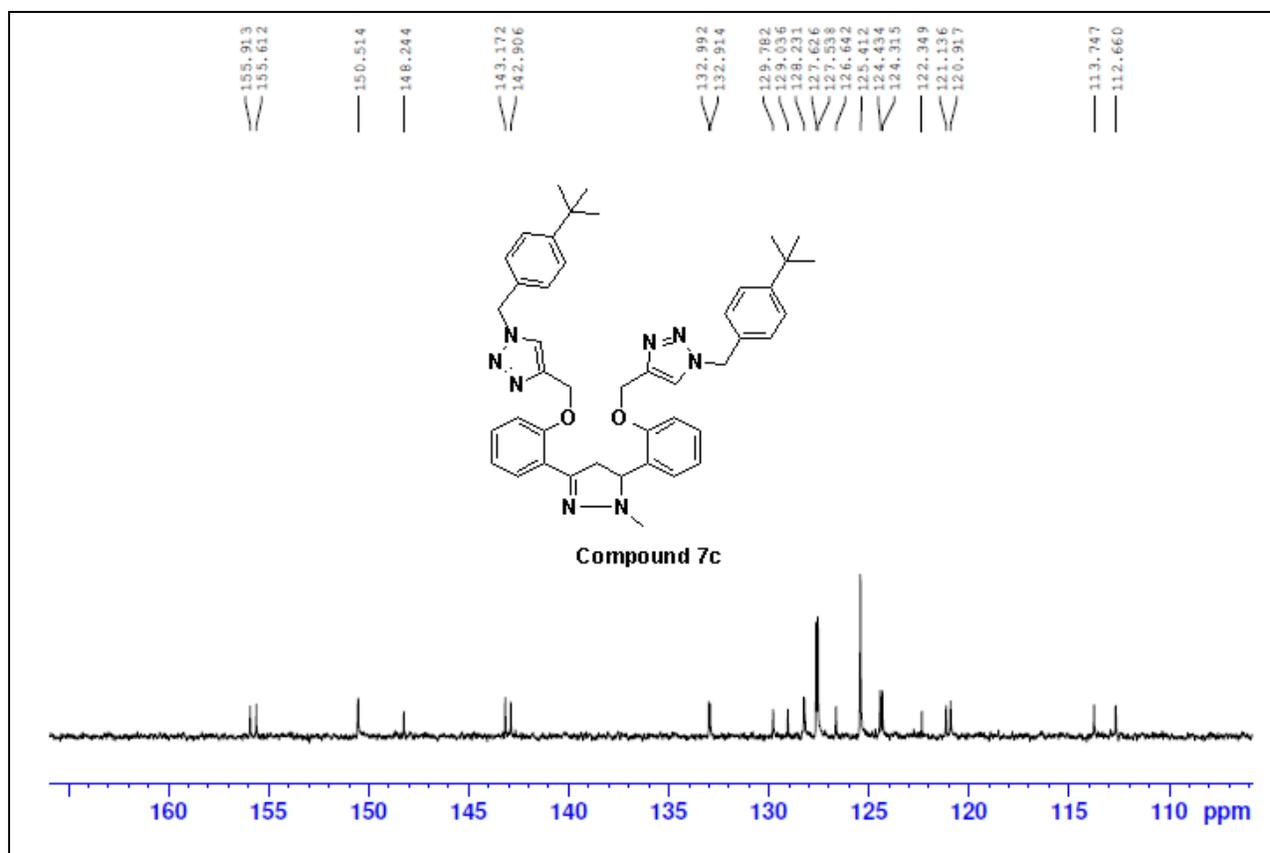


Figure S41: ^{13}C NMR (100 MHz, DMSO- d_6) spectra of compound **7c**

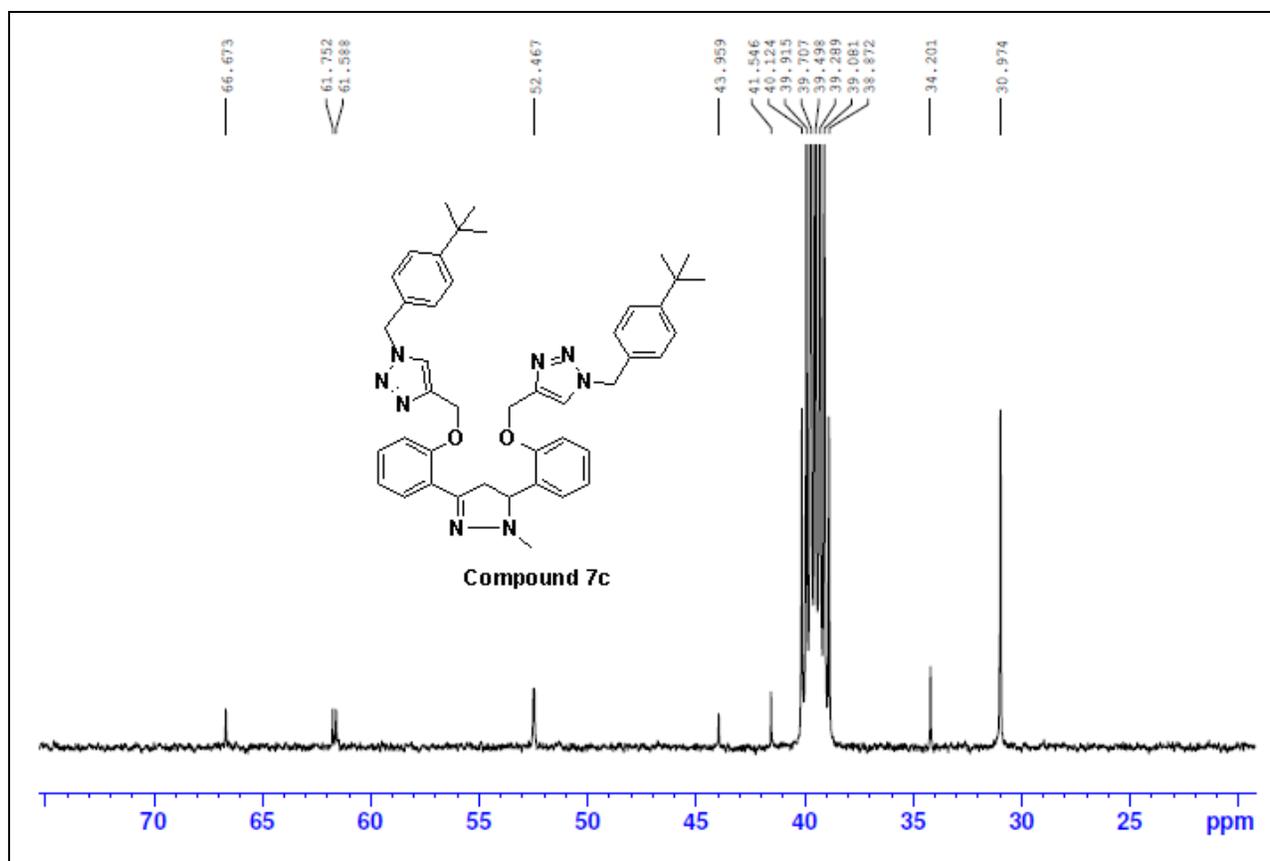


Figure S42: ^{13}C NMR (100 MHz, DMSO- d_6) spectra of compound 7c

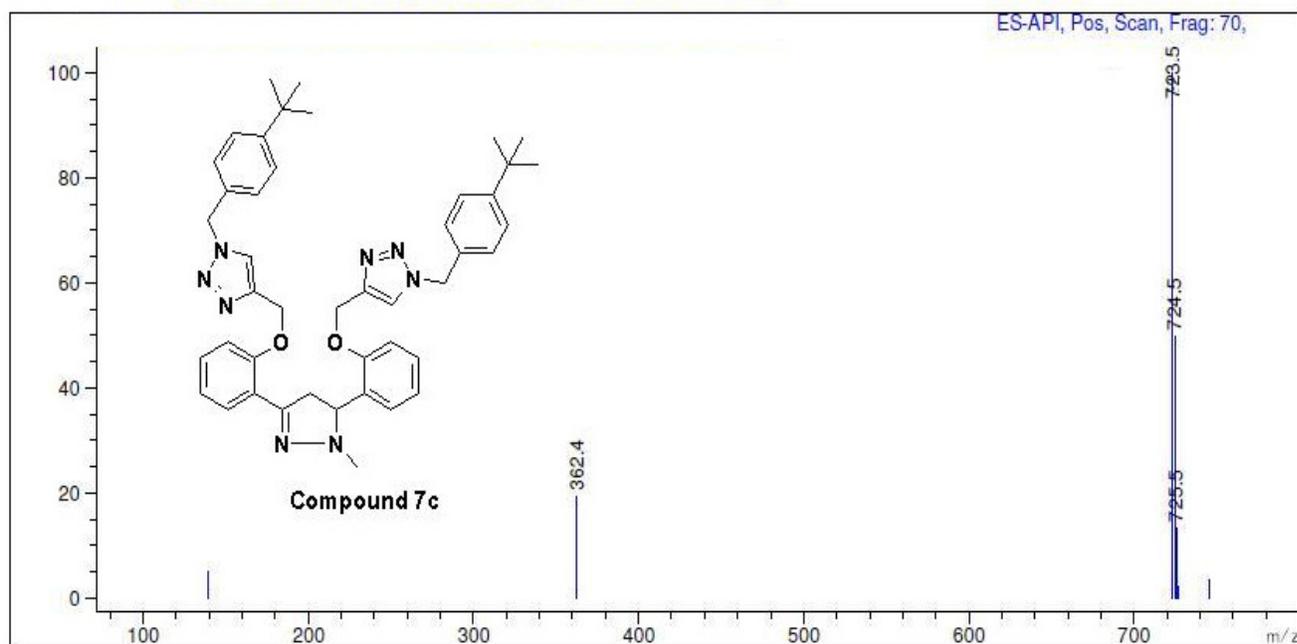


Figure S43: Mass spectra of compound 7c

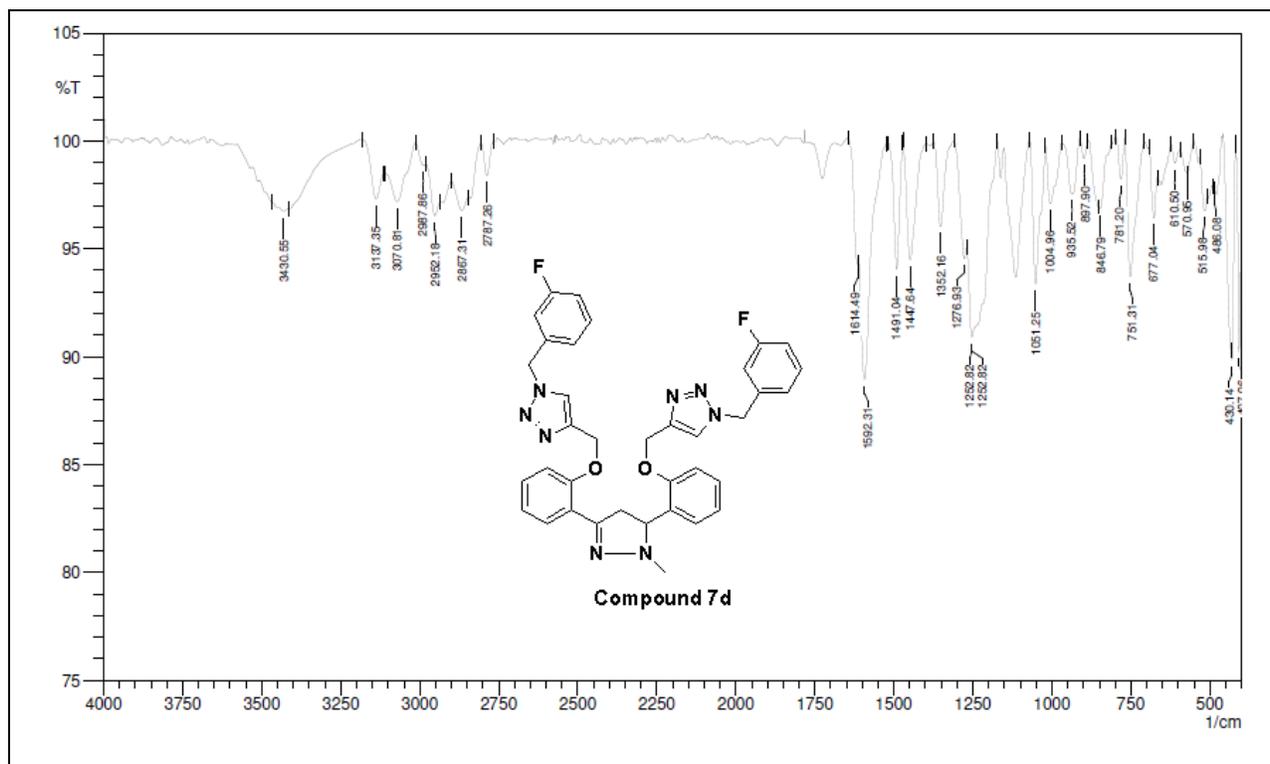


Figure S44: IR spectra of compound 7d

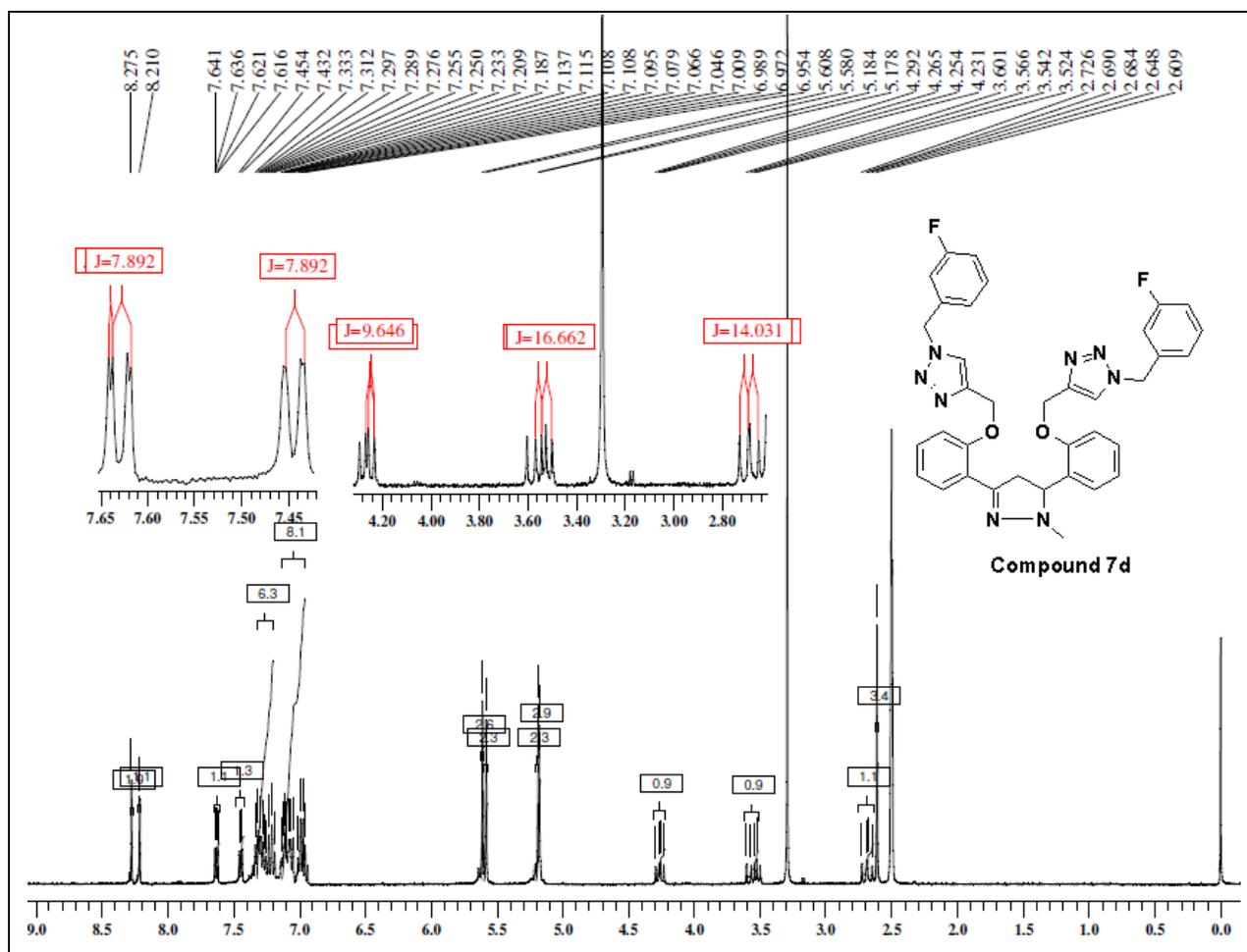


Figure S45: $^1\text{H-NMR}$ (400 MHz, DMSO-d_6) spectra of compound **7d**

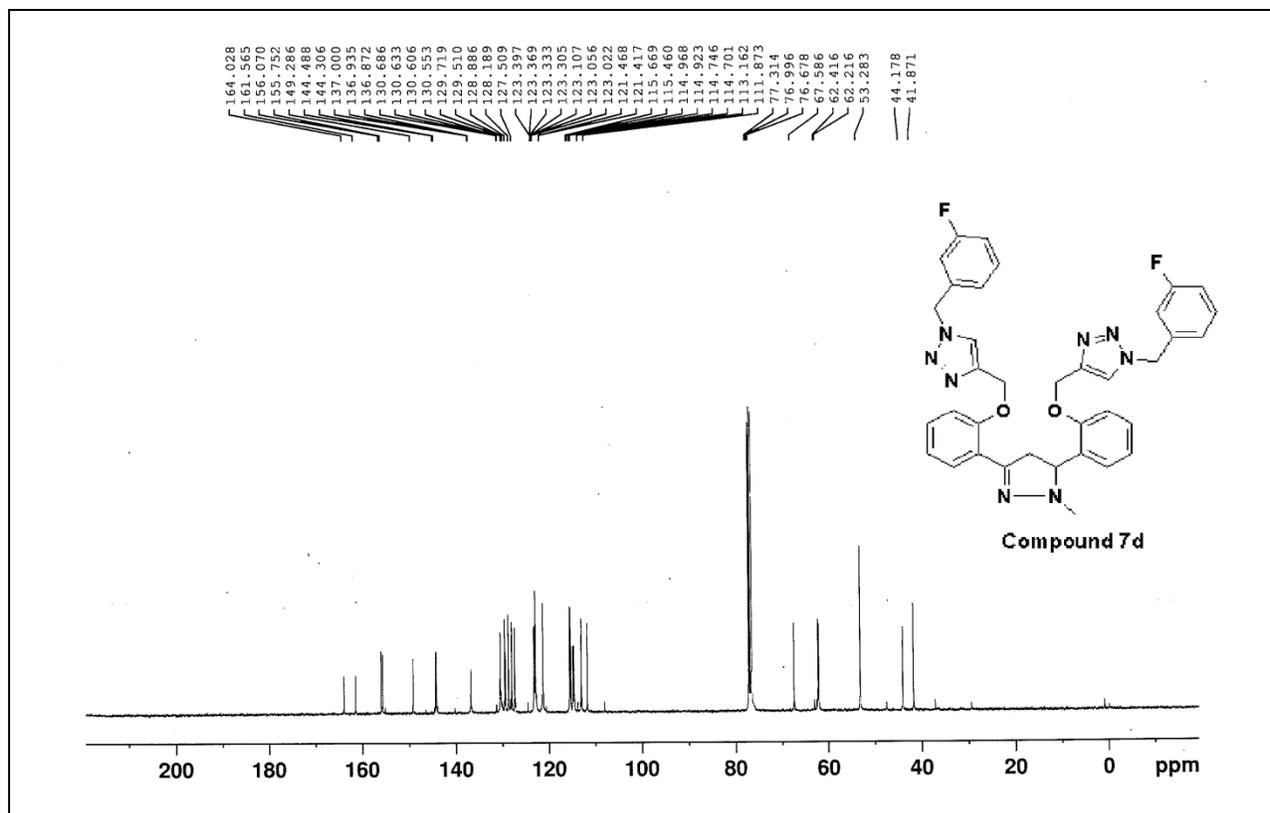


Figure S46: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **7d**

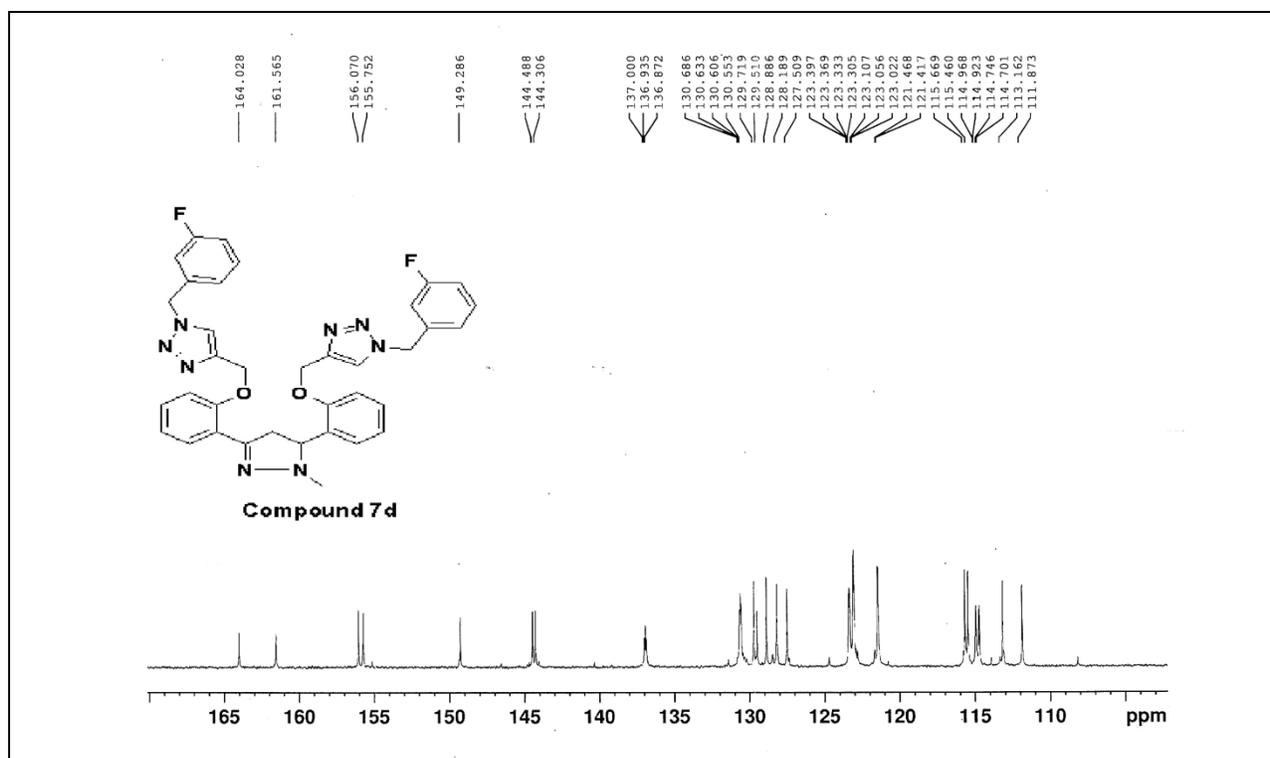


Figure S47: ¹³C NMR (100 MHz, CDCl₃) spectra of compound **7d**

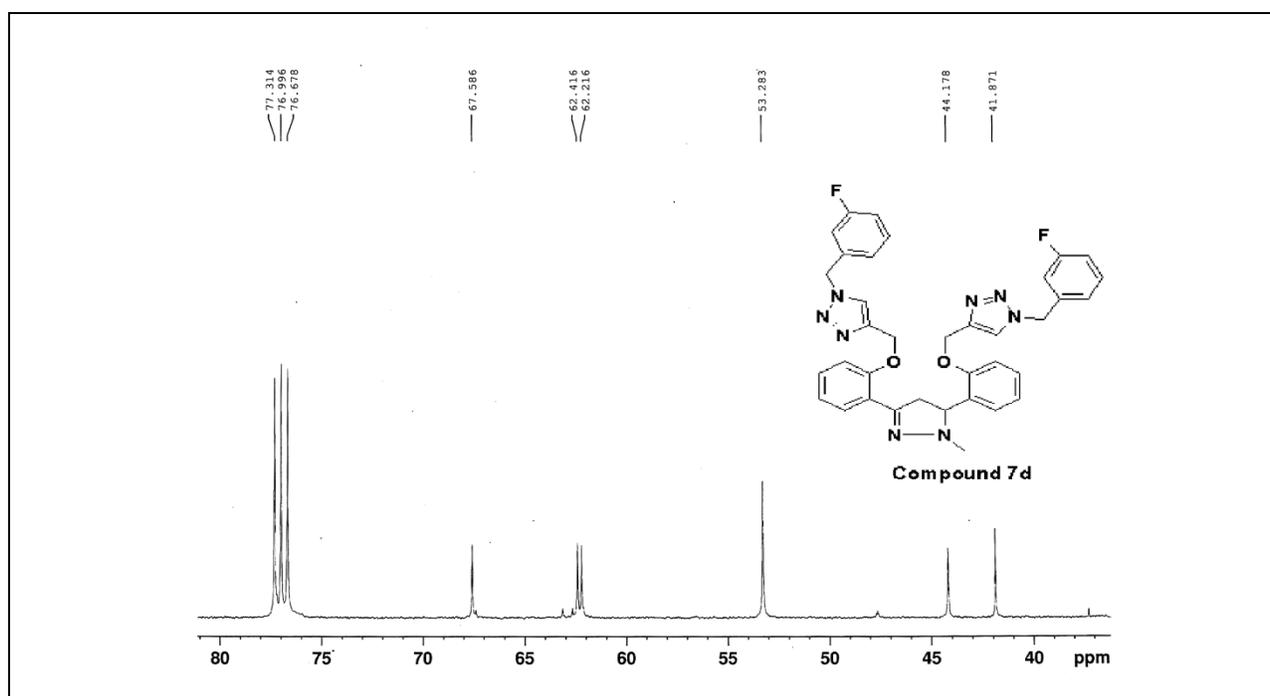


Figure S48: ¹³C NMR (100 MHz, CDCl₃) spectra of compound **7d**

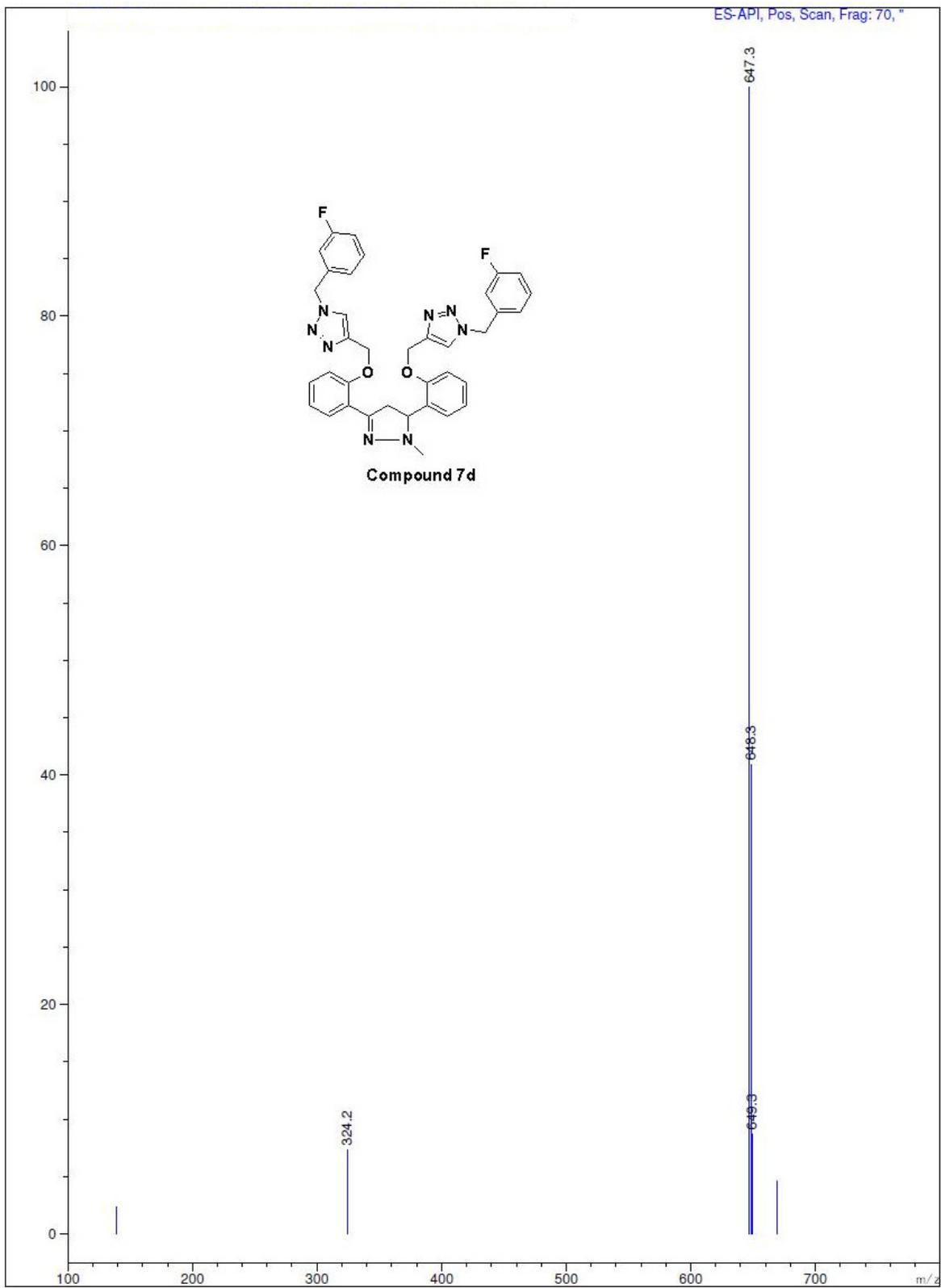


Figure S49: Mass spectra of compound 7d

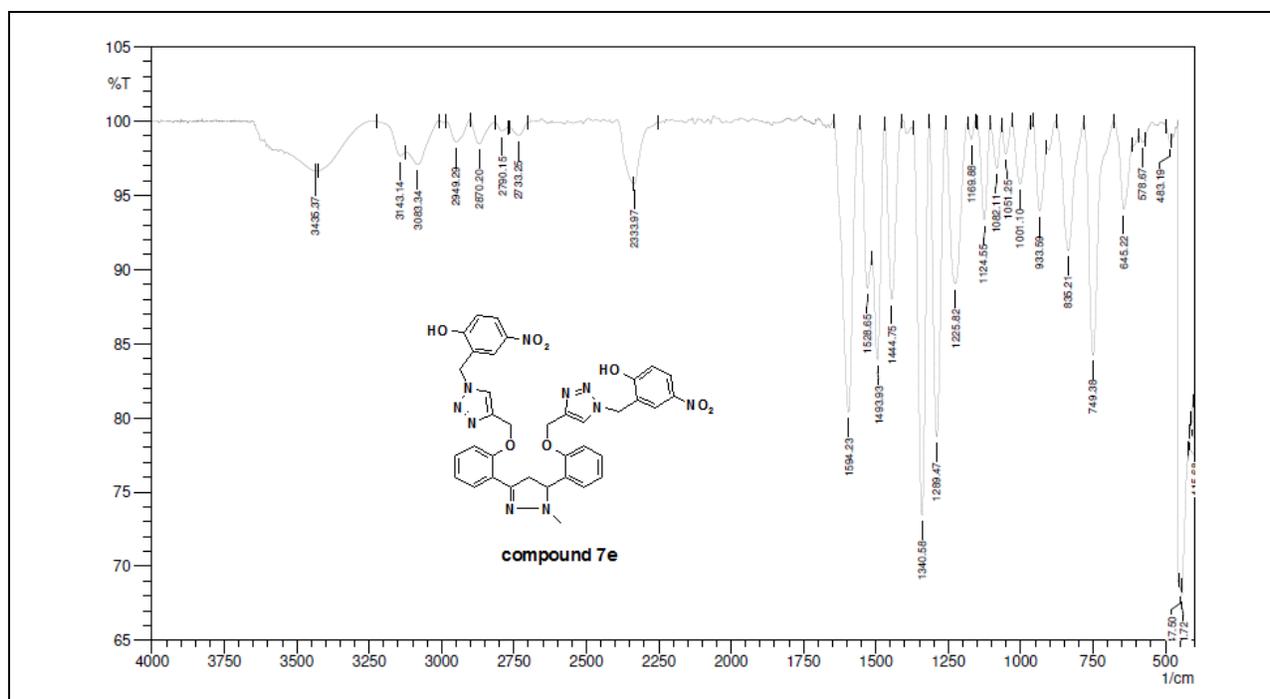


Figure S50: IR spectra of compound **7e**

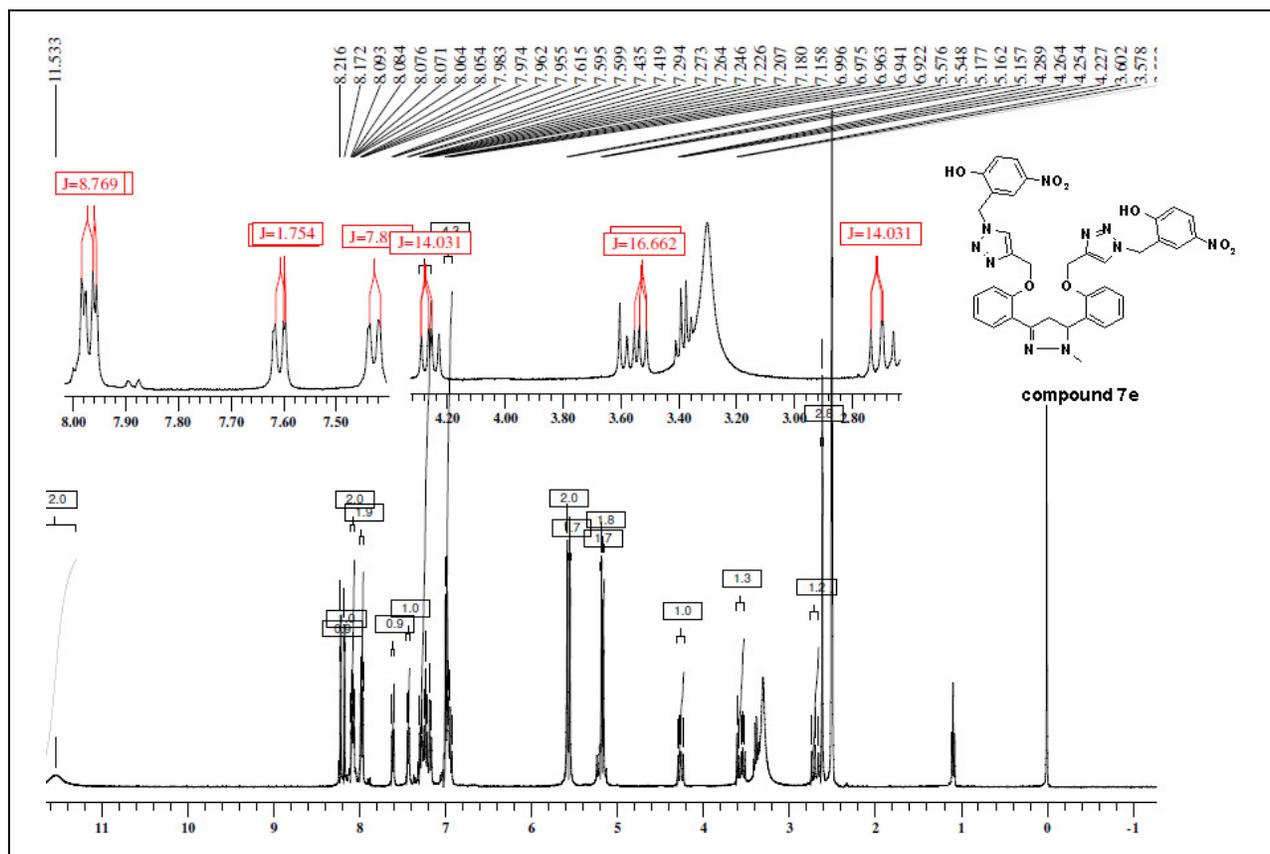


Figure S51: ¹H-NMR (400 MHz, DMSO-d₆) spectra of compound **7e**

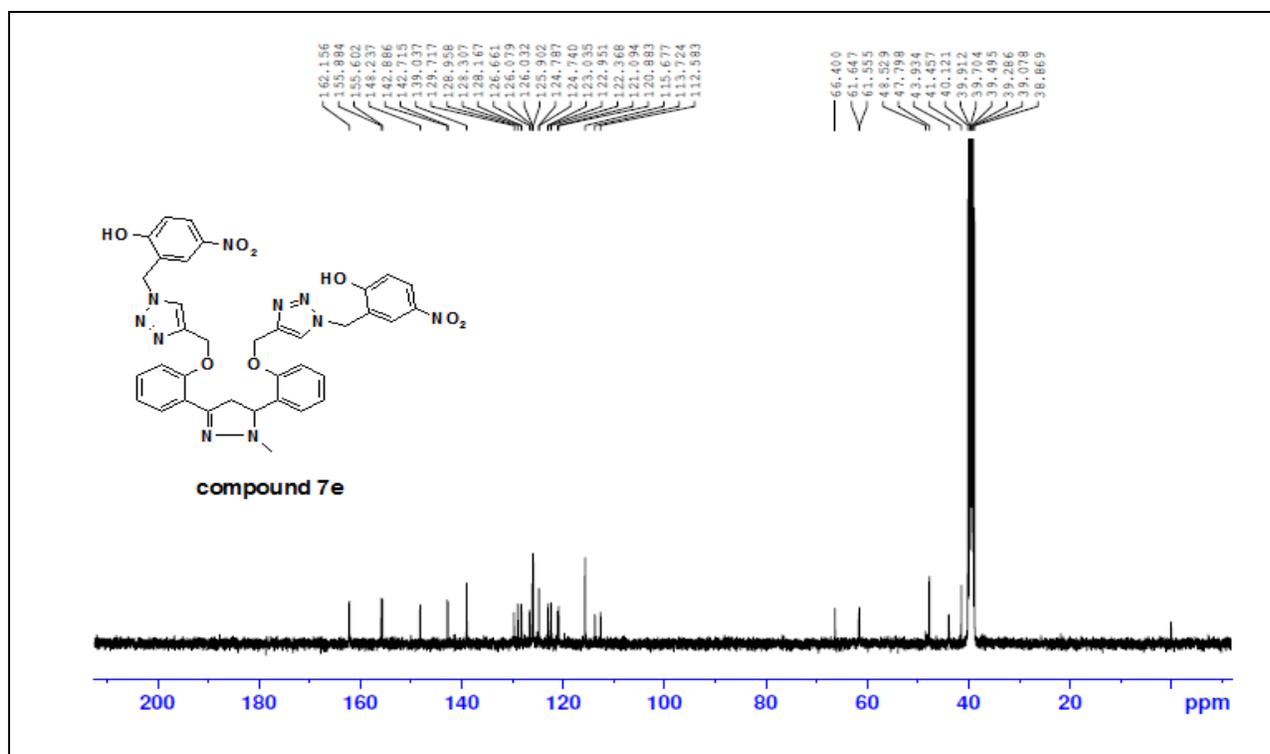


Figure S52: ^{13}C NMR (100 MHz, DMSO-d_6) spectra of compound 7e

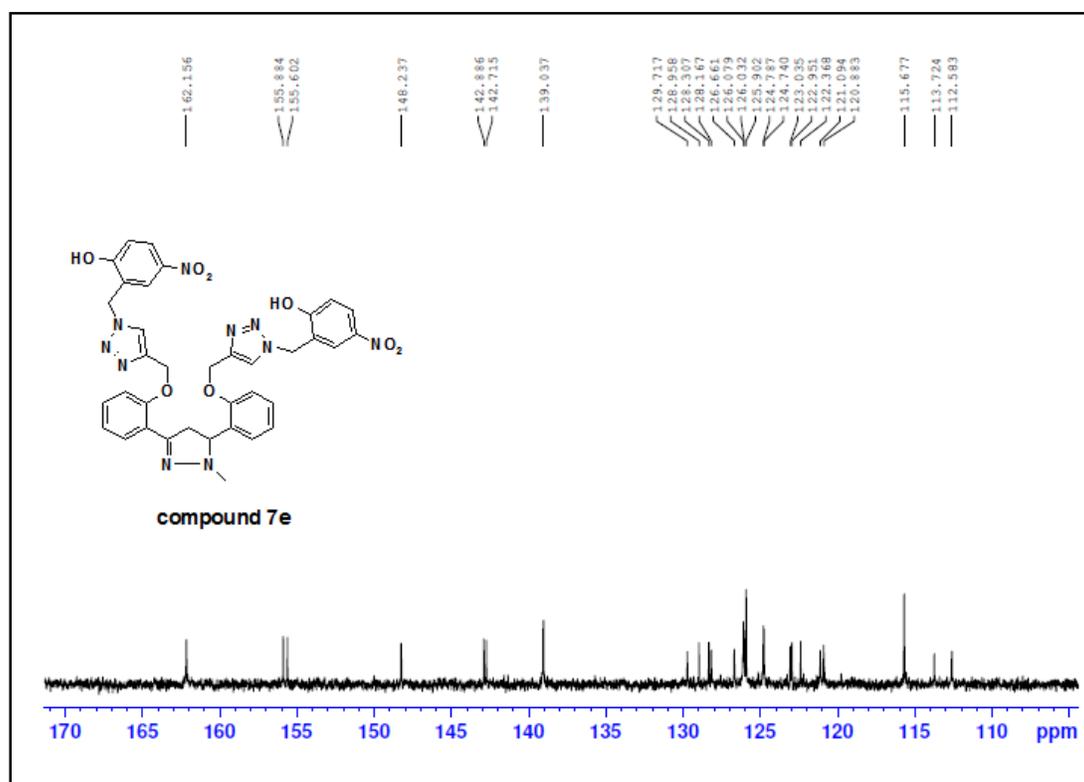


Figure S53: ^{13}C NMR (100 MHz, DMSO-d_6) spectra of compound 7e

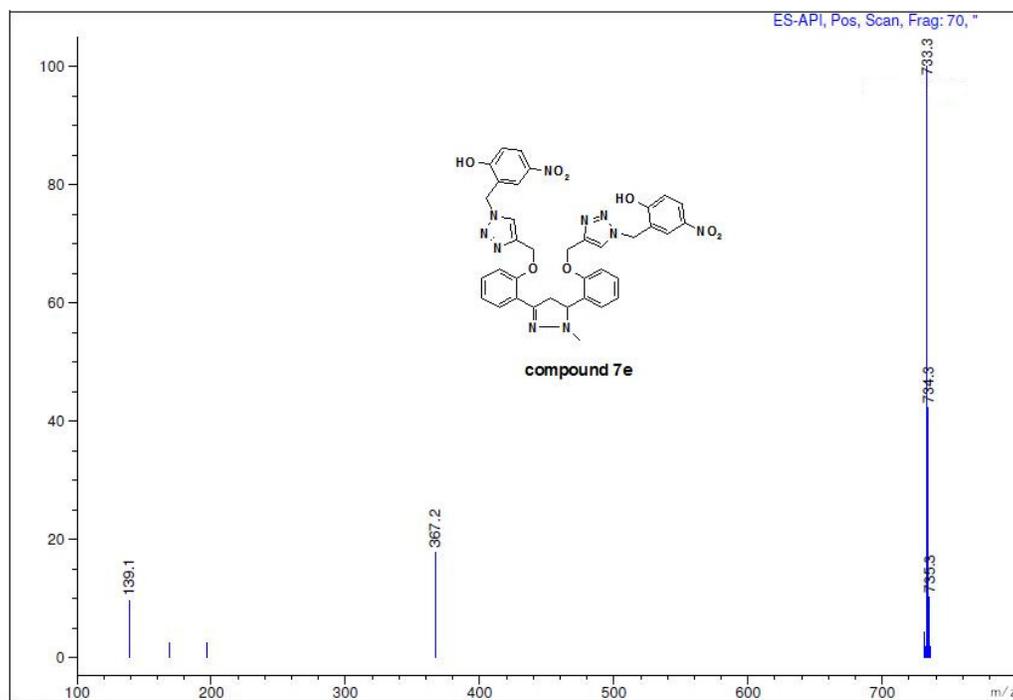


Figure S54: Mass spectra of compound 7e

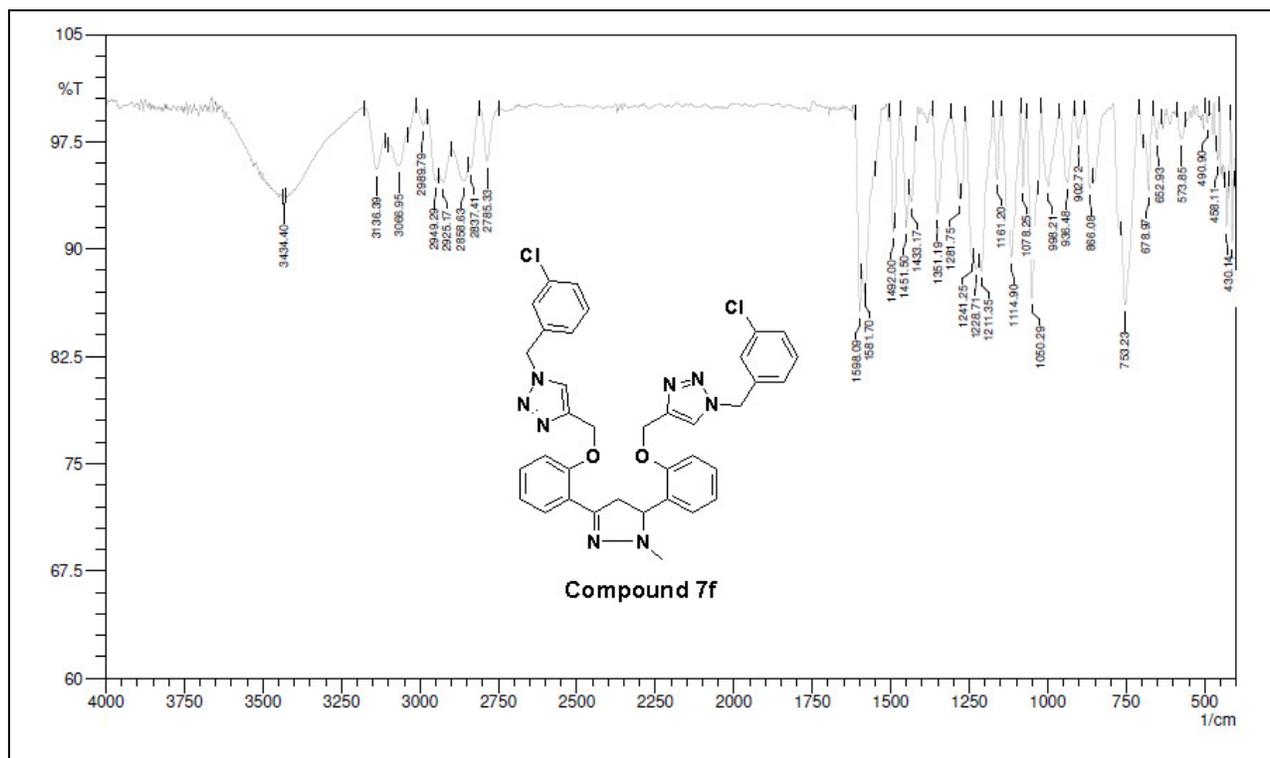


Figure S55: IR spectra of compound 7f

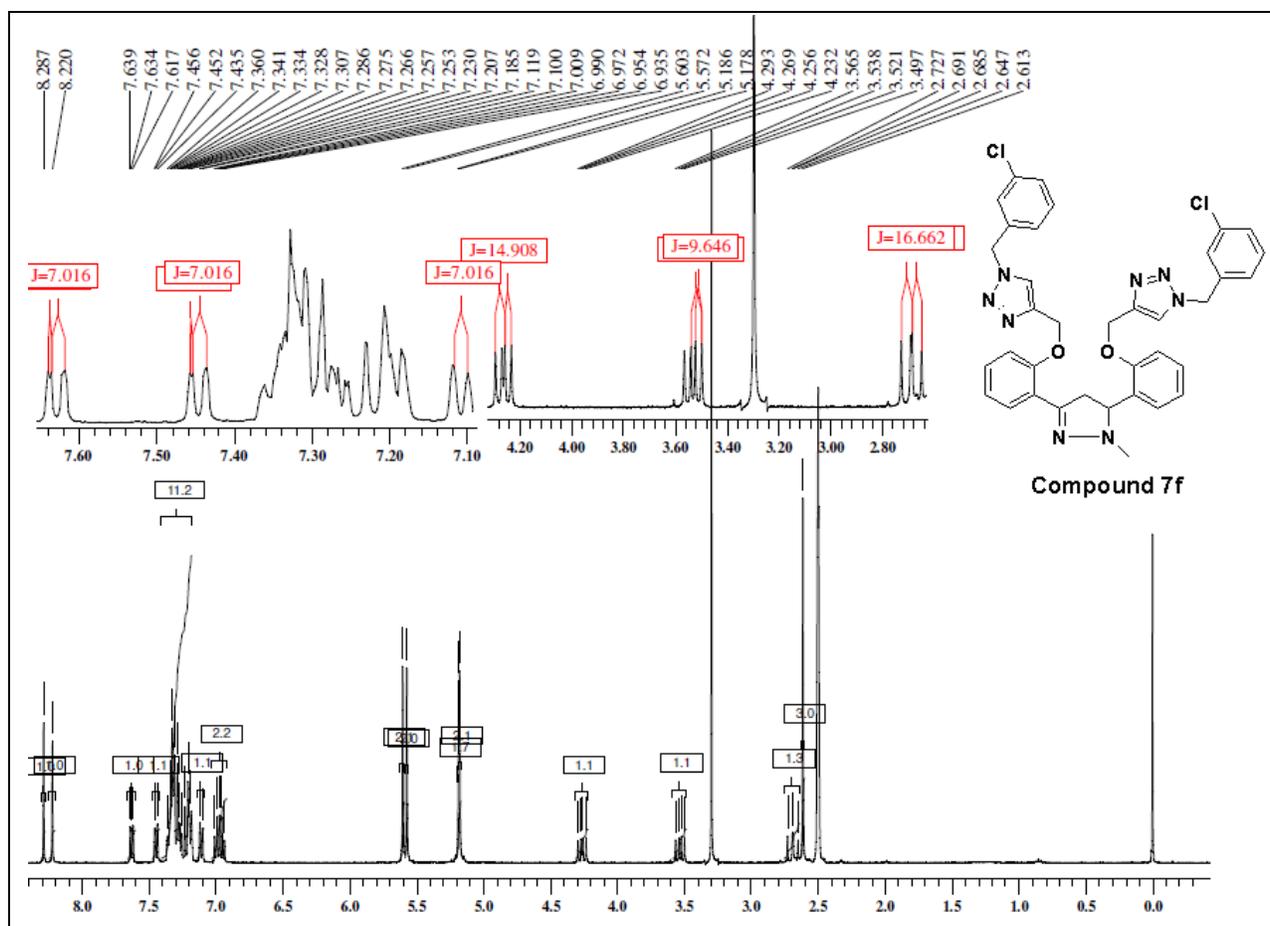


Figure S56: $^1\text{H-NMR}$ (400 MHz, DMSO-d_6) spectra of compound **7f**

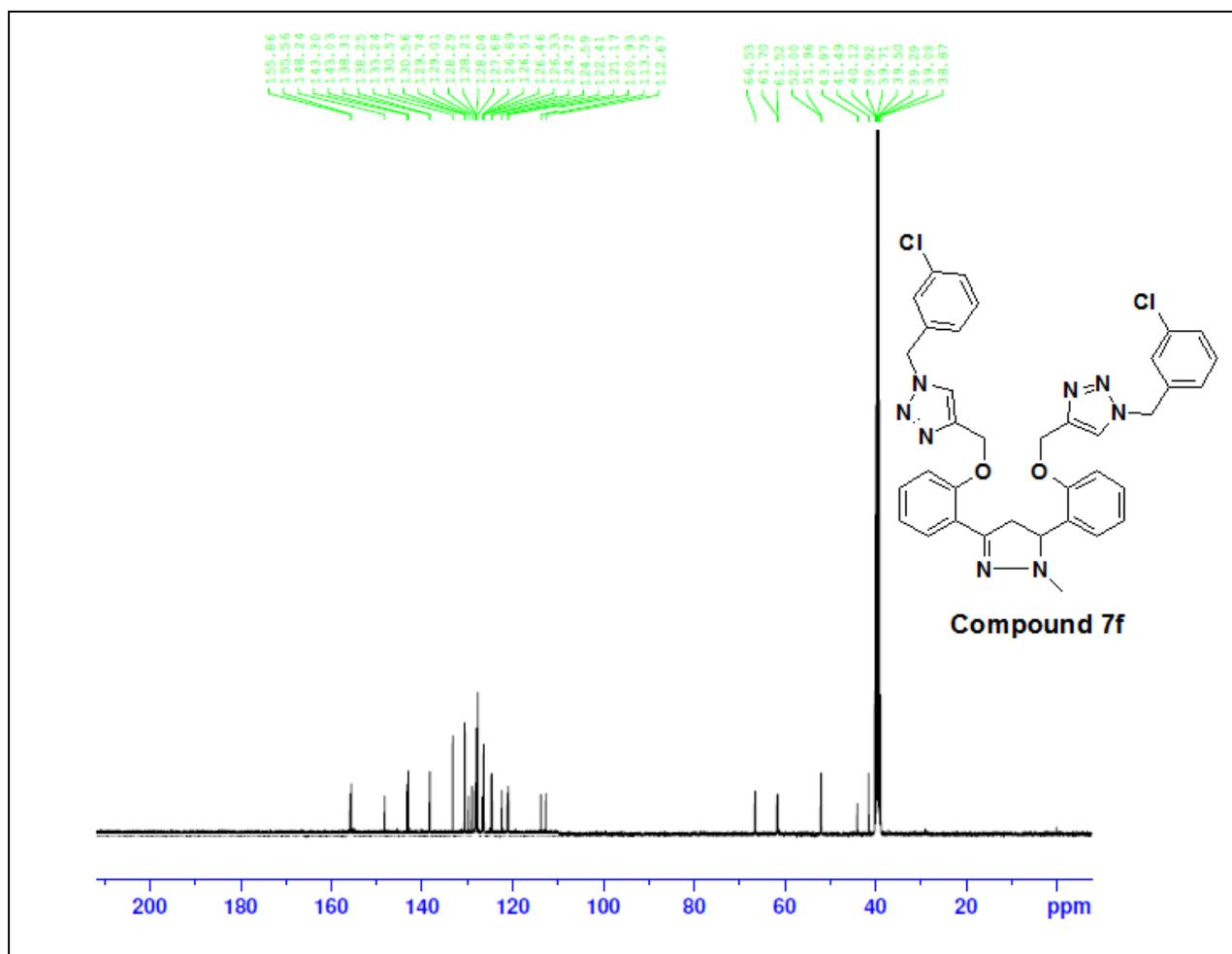


Figure S57: ^{13}C NMR (100 MHz, DMSO-d_6) spectra of compound **7f**

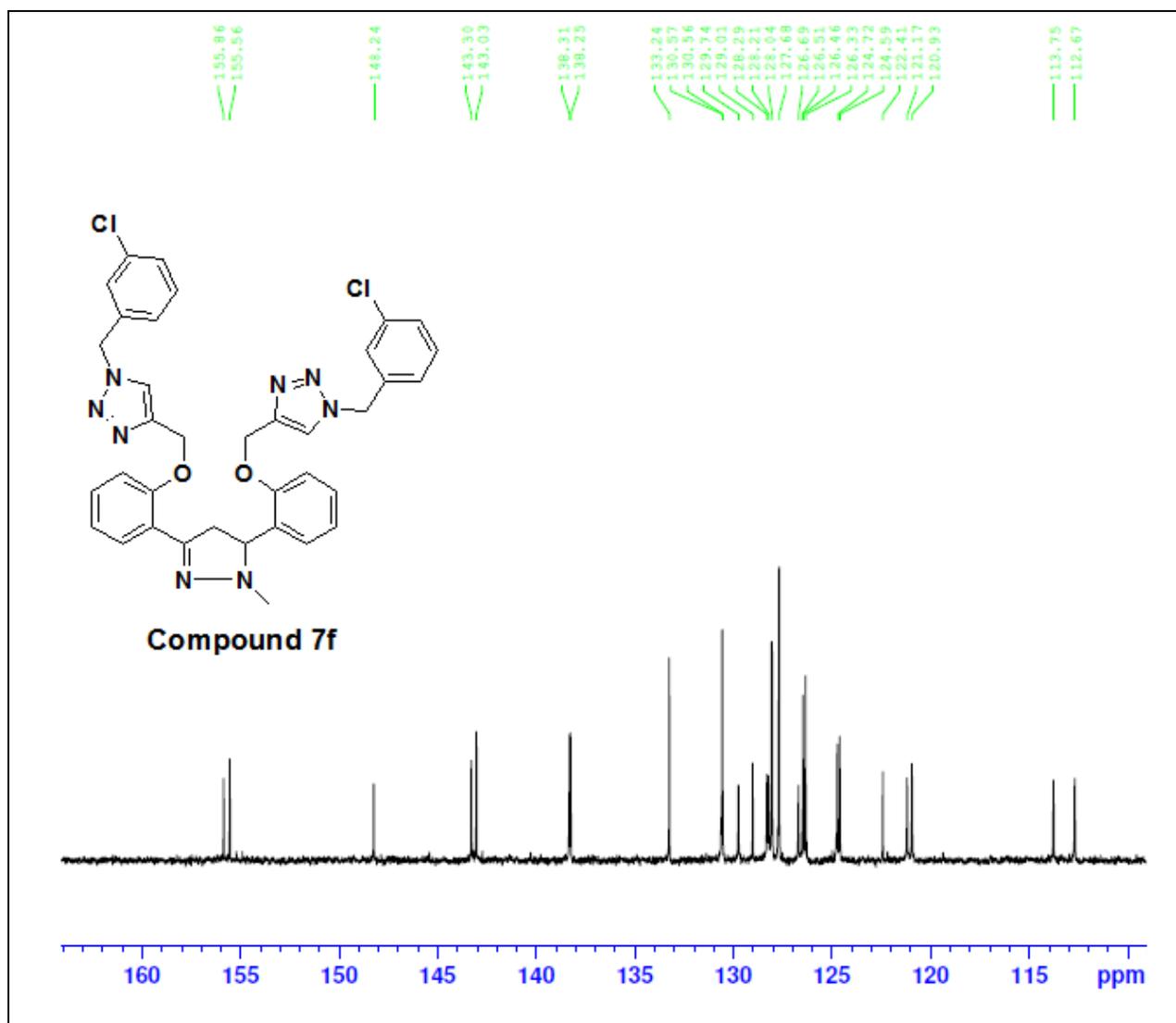


Figure S58: ¹³C NMR (100 MHz, DMSO-d₆) spectra of compound **7f**

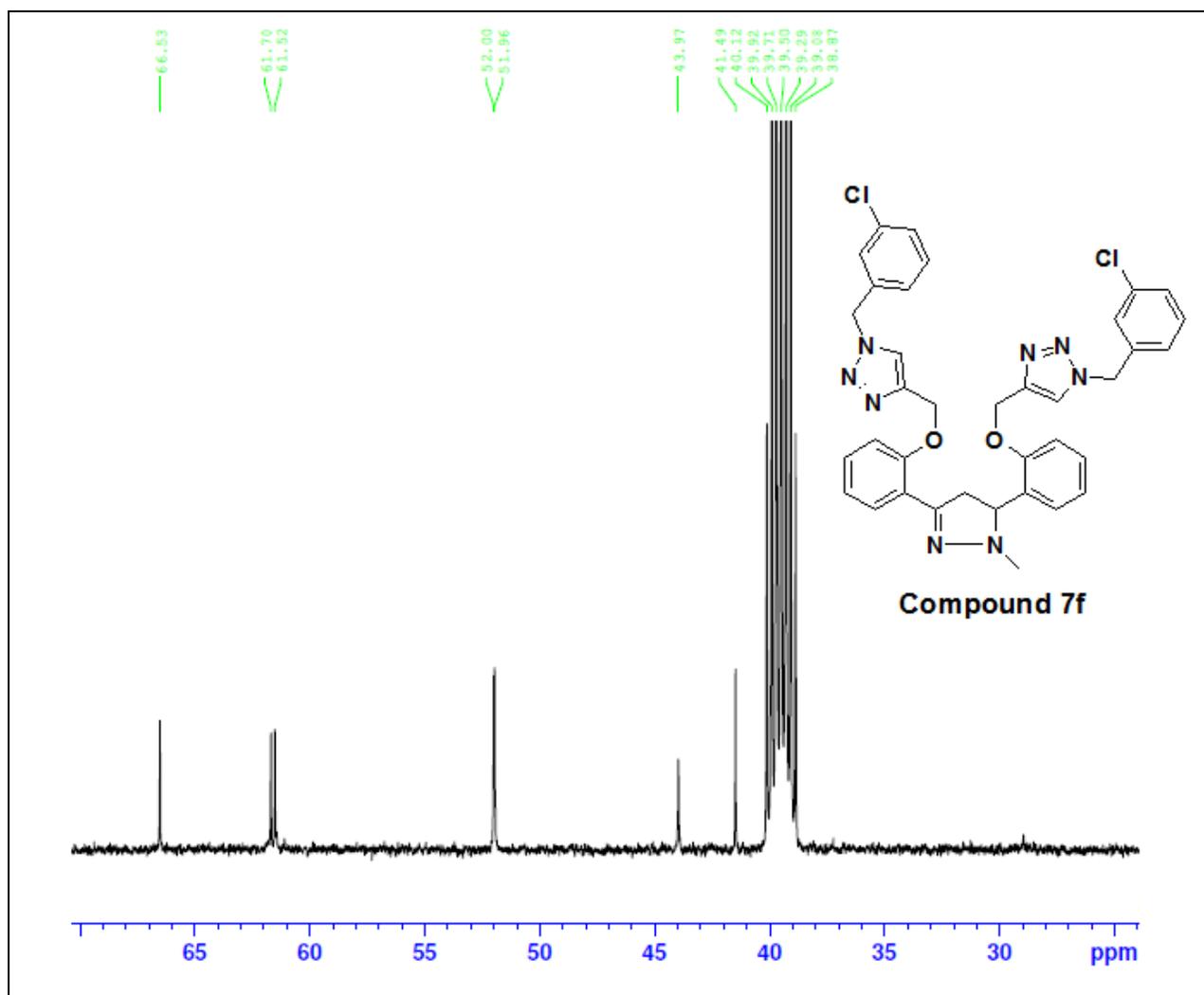


Figure S59: ^{13}C NMR (100 MHz, DMSO-d_6) spectra of compound **7f**

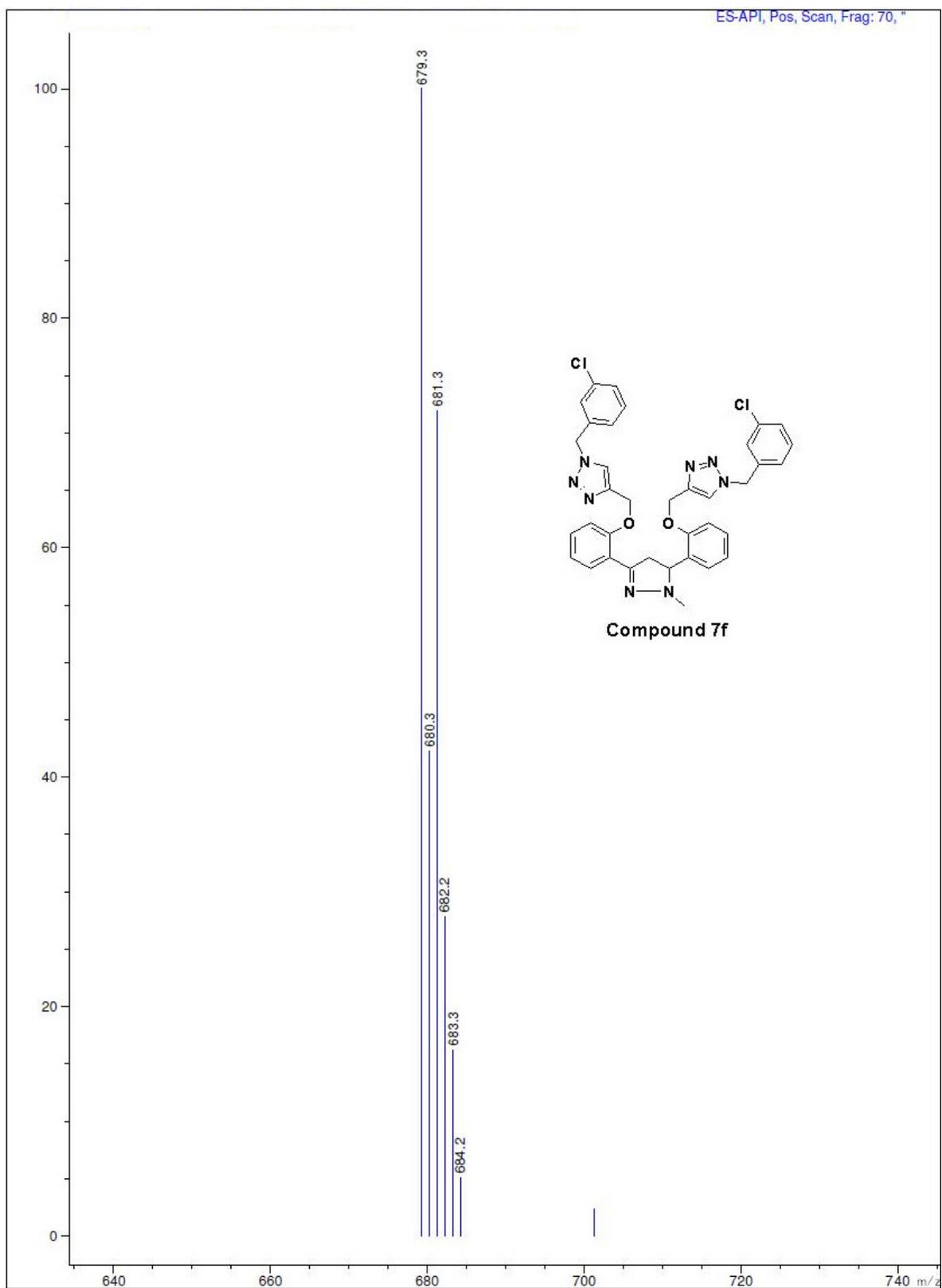


Figure S60: Mass spectra of compound 7f

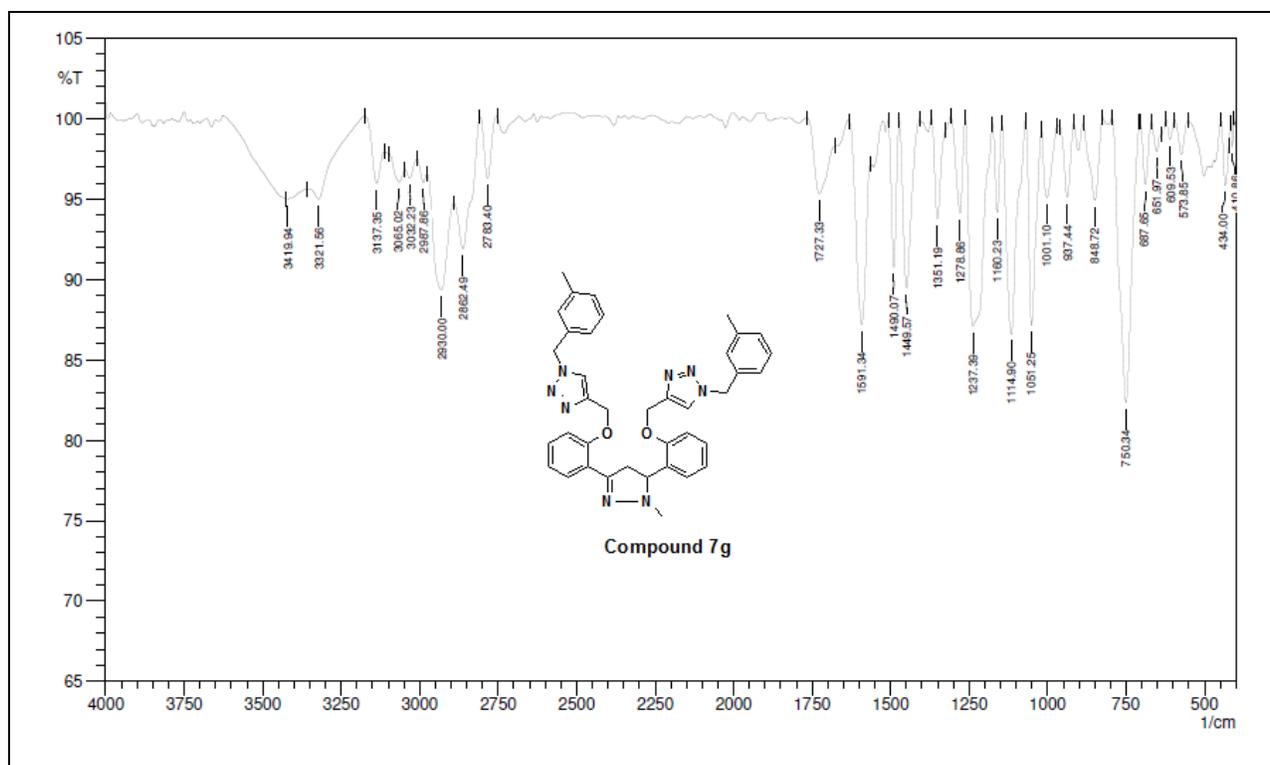
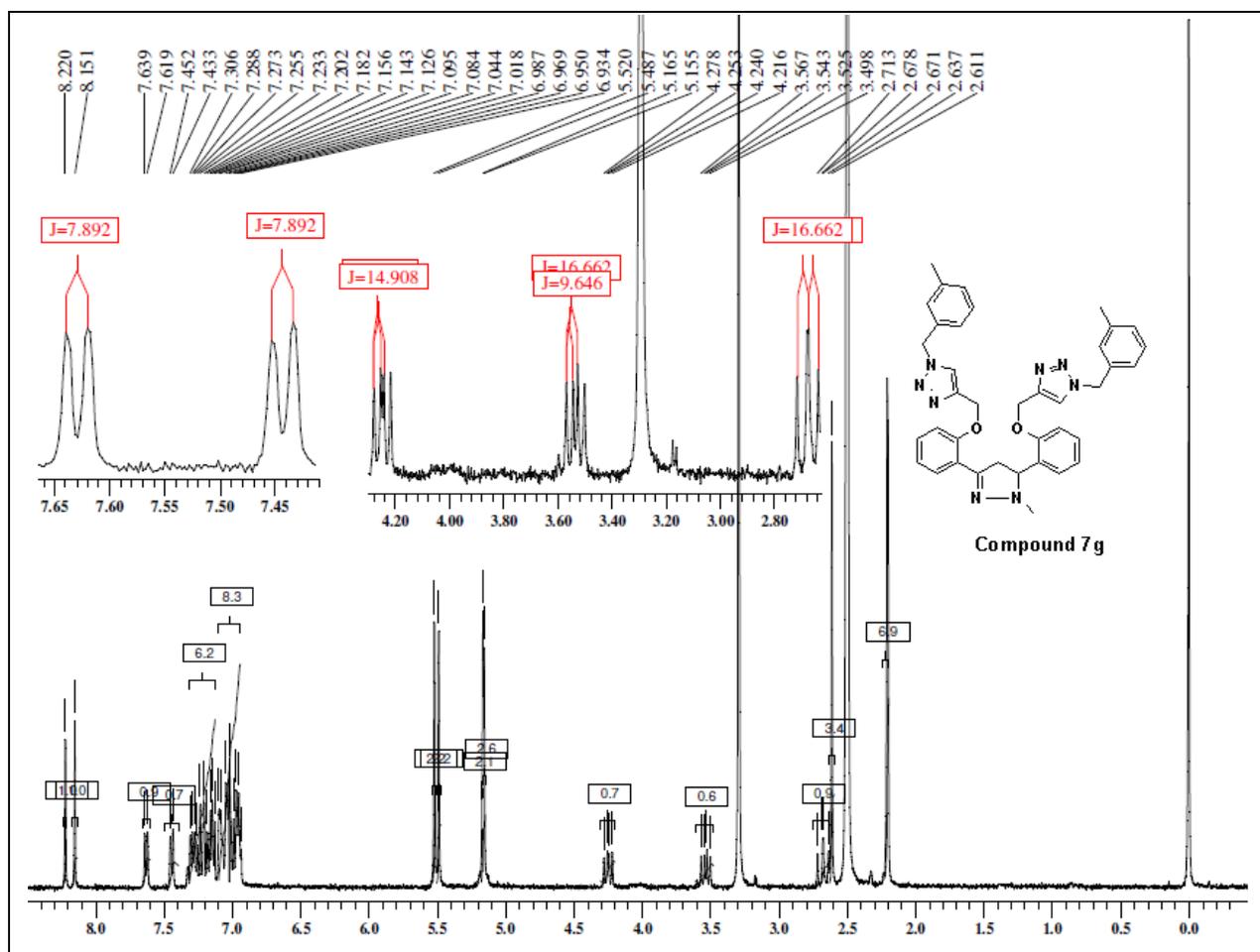


Figure S61: IR spectra of compound 7g



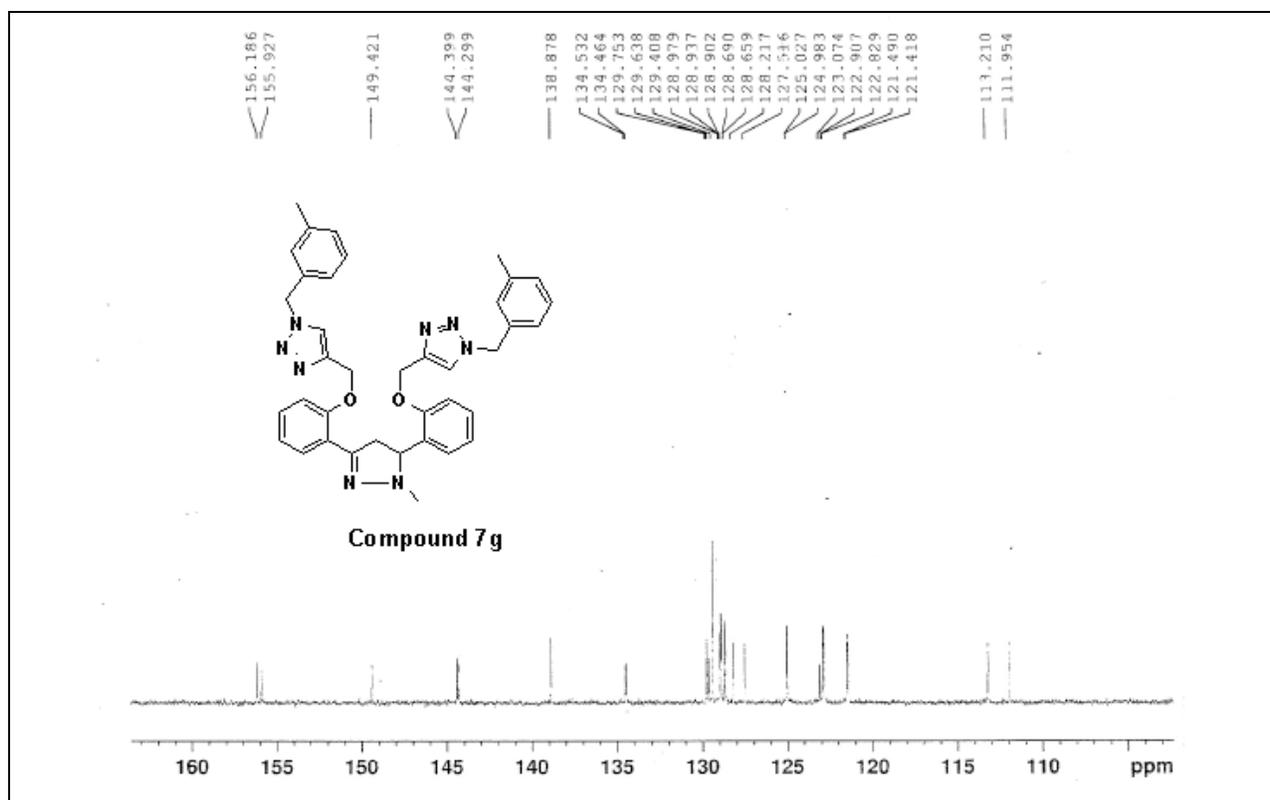


Figure S64: ^{13}C NMR (125 MHz, CDCl_3) spectra of compound **7g**

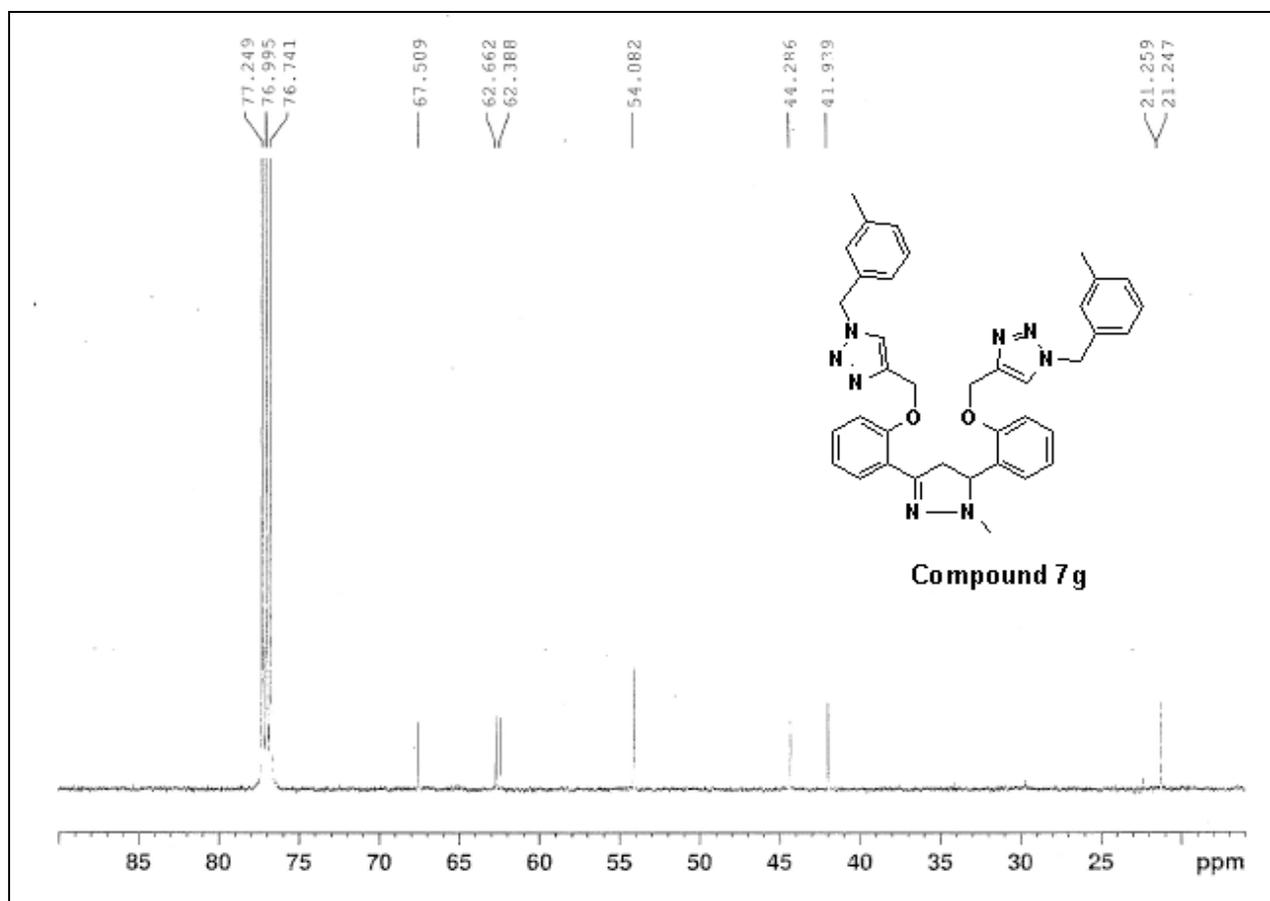


Figure S65: ^{13}C NMR (125 MHz, CDCl_3) spectra of compound 7g

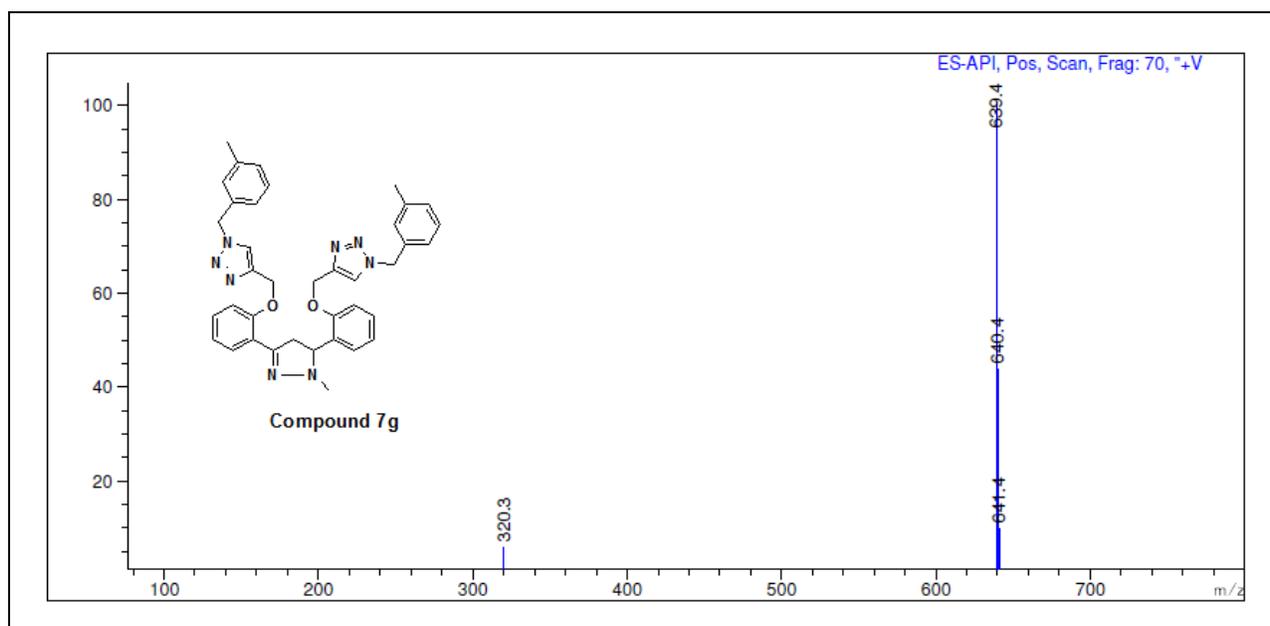


Figure S66: Mass spectra of compound 7g

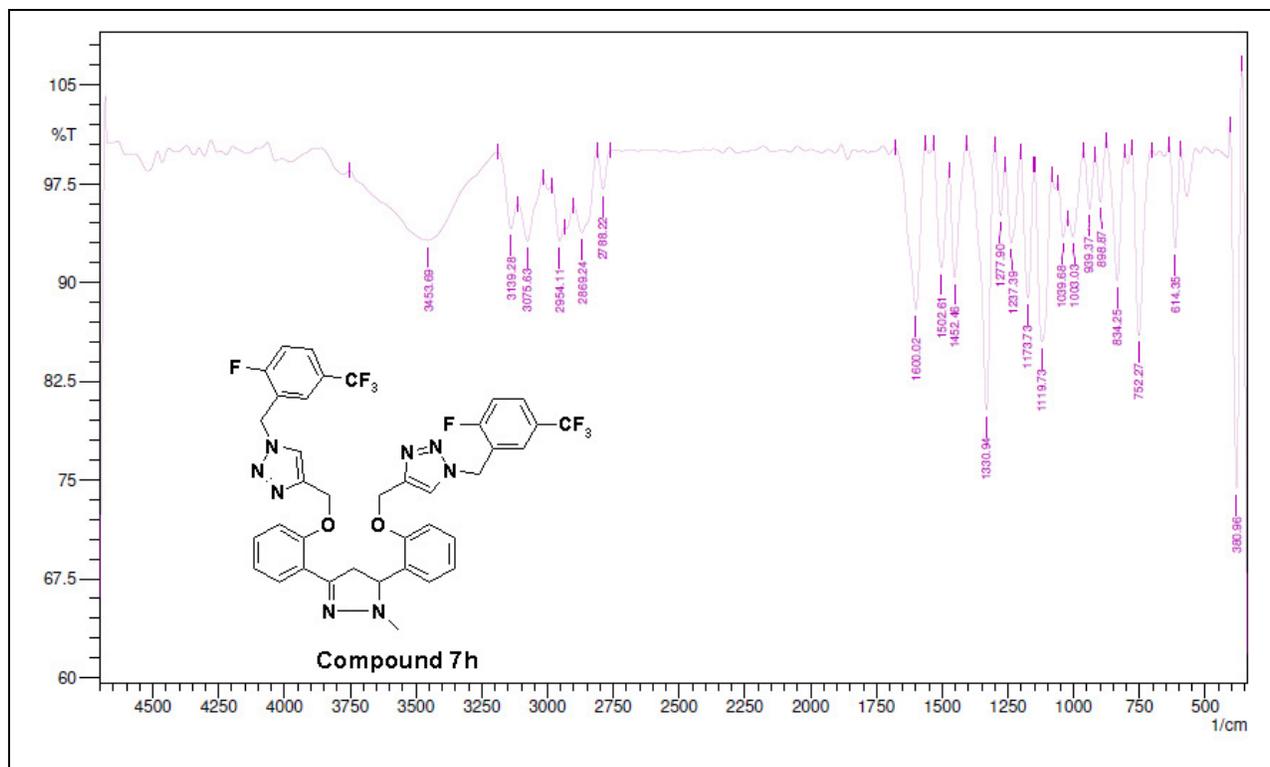


Figure S67: IR spectra of compound 7h

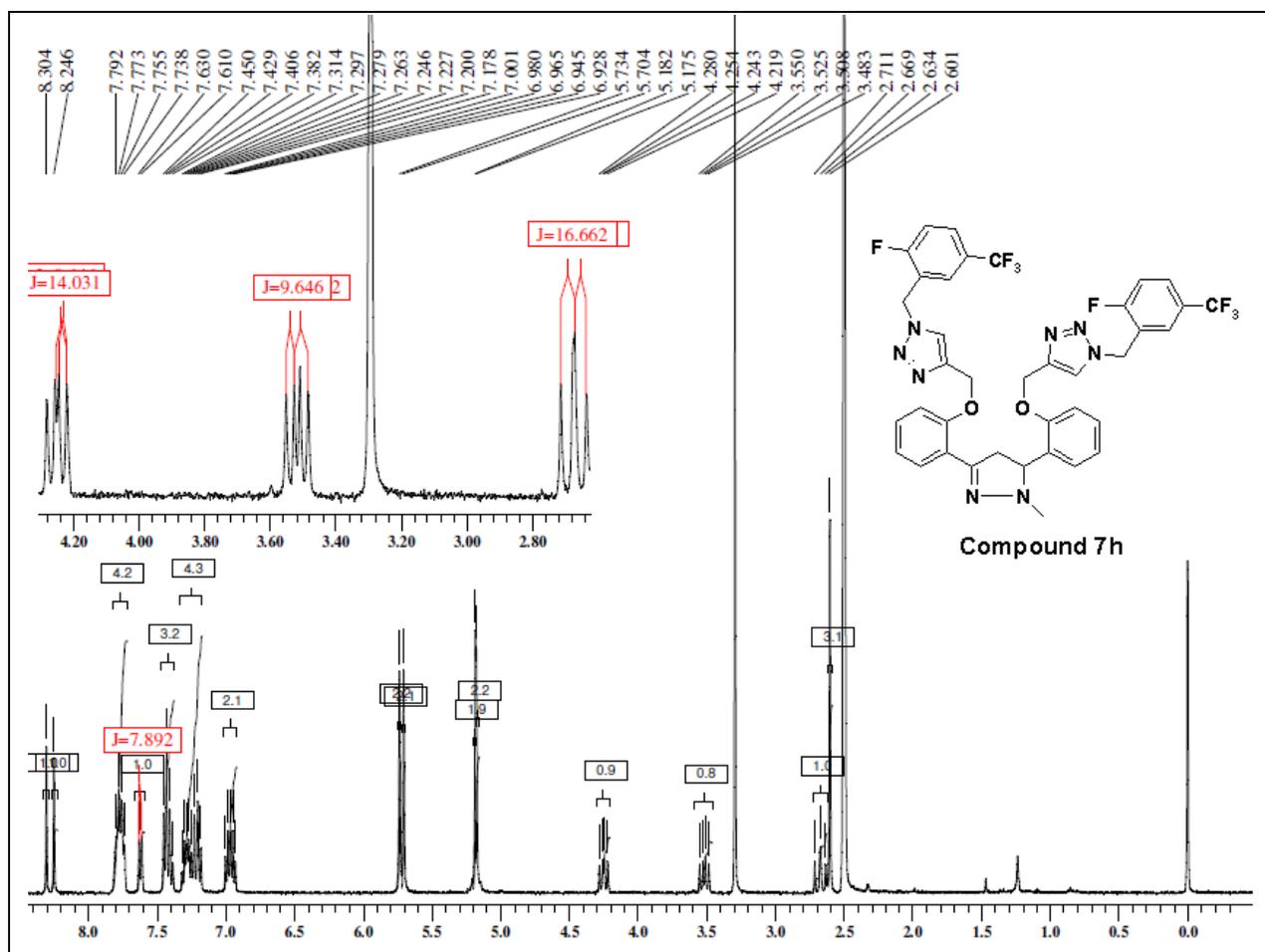


Figure S68: $^1\text{H-NMR}$ (400 MHz, DMSO-d_6) spectra of compound 7h

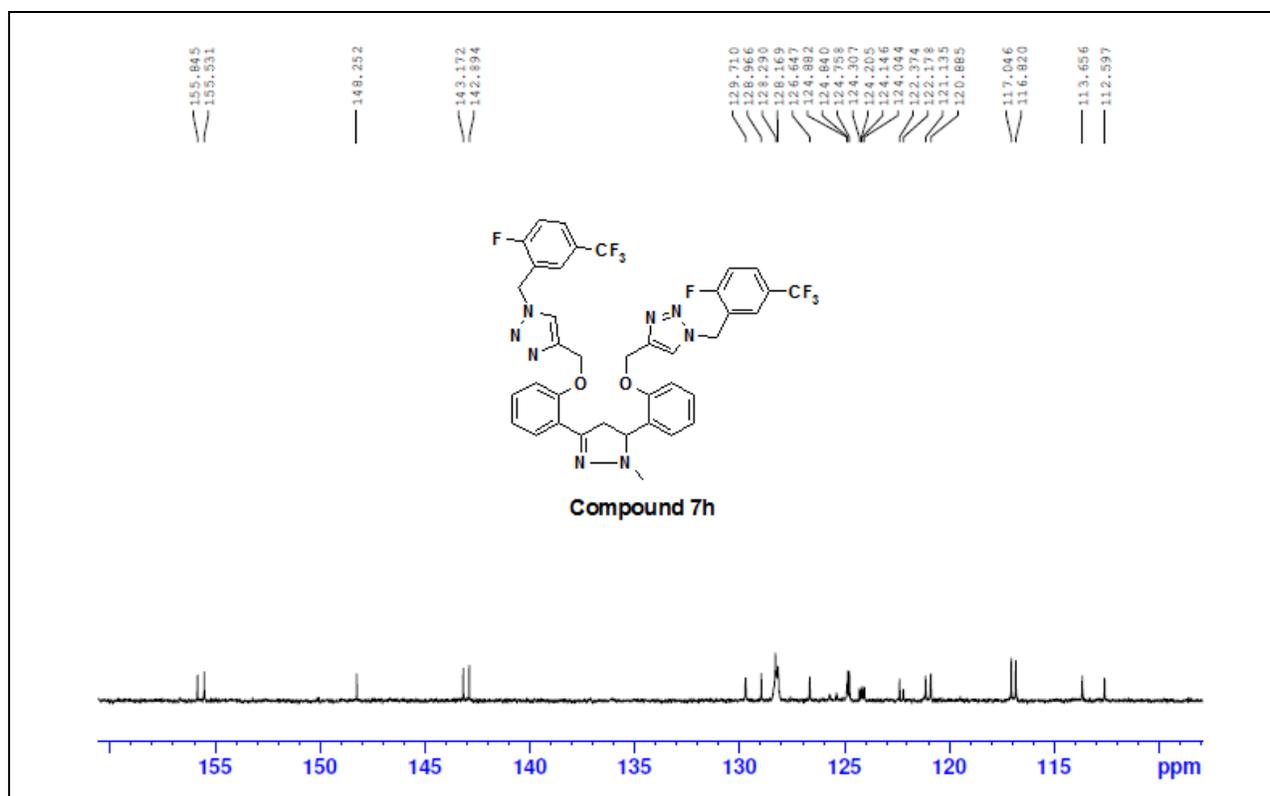
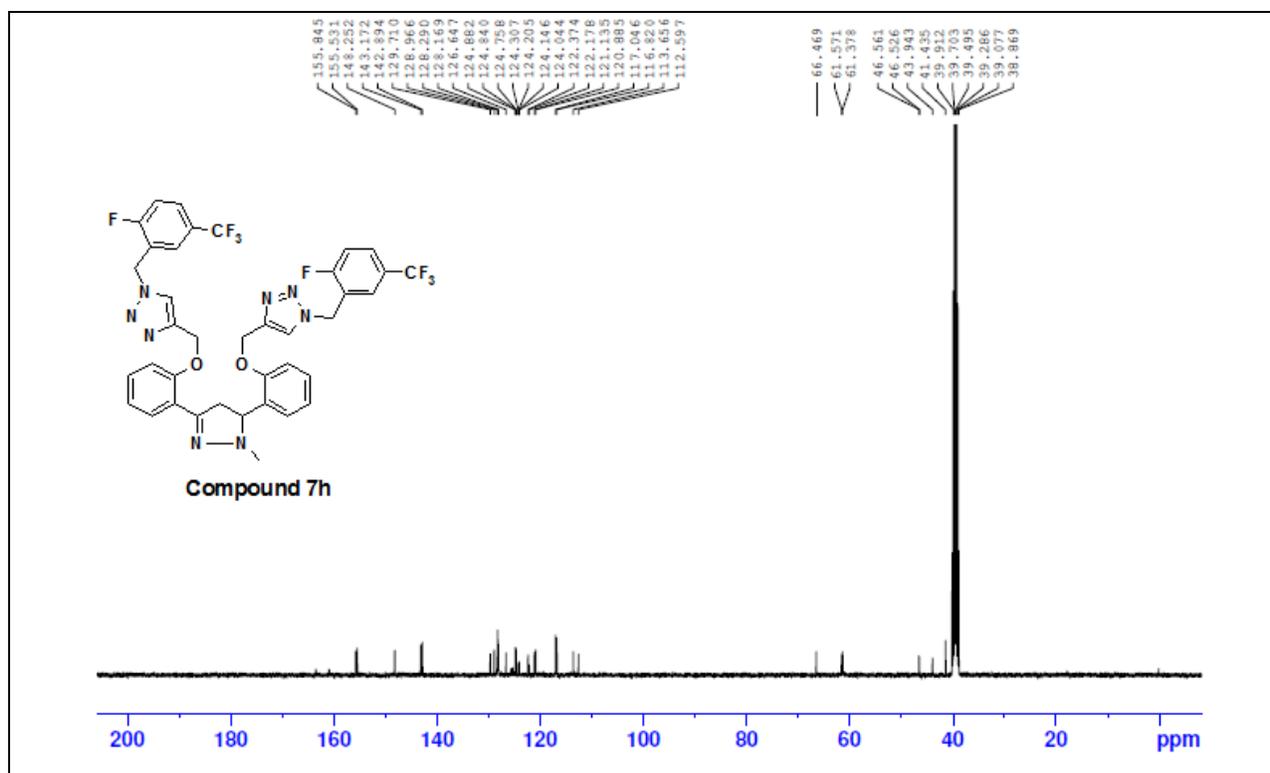


Figure S70: ^{13}C NMR (100 MHz, DMSO- d_6) spectra of compound 7h

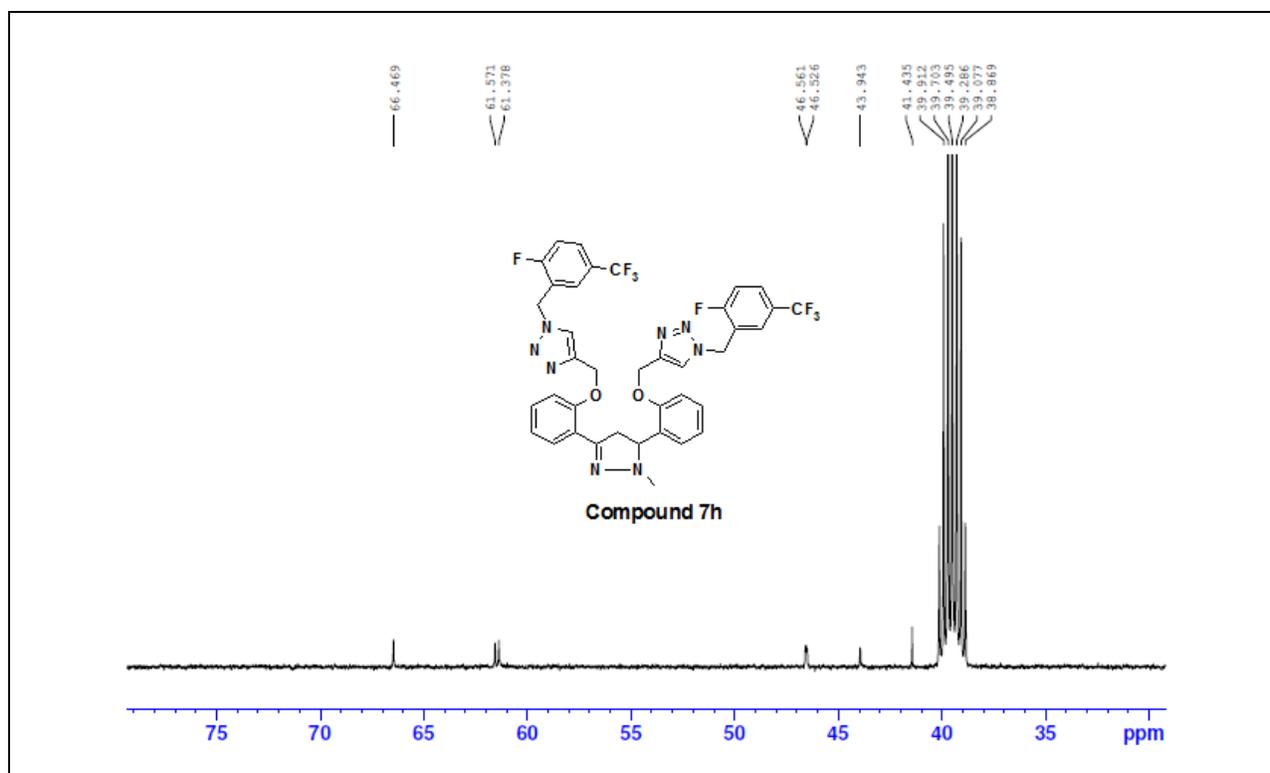


Figure S71: ^{13}C NMR (100 MHz, DMSO-d_6) spectra of compound **7h**

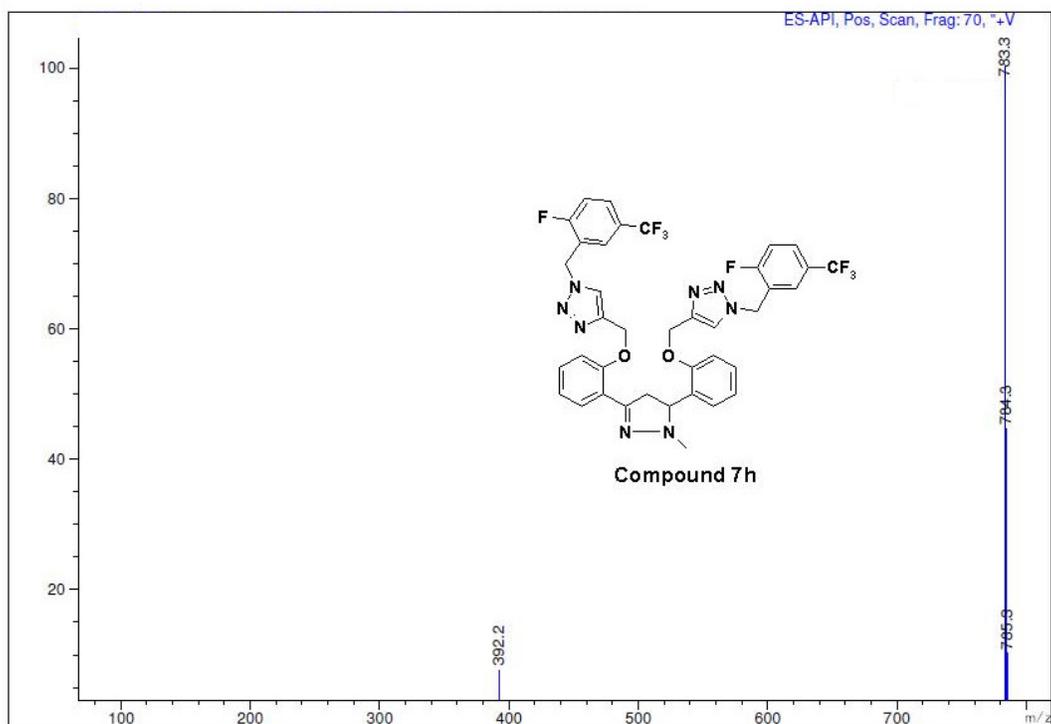


Figure S72: Mass spectra of compound **7h**

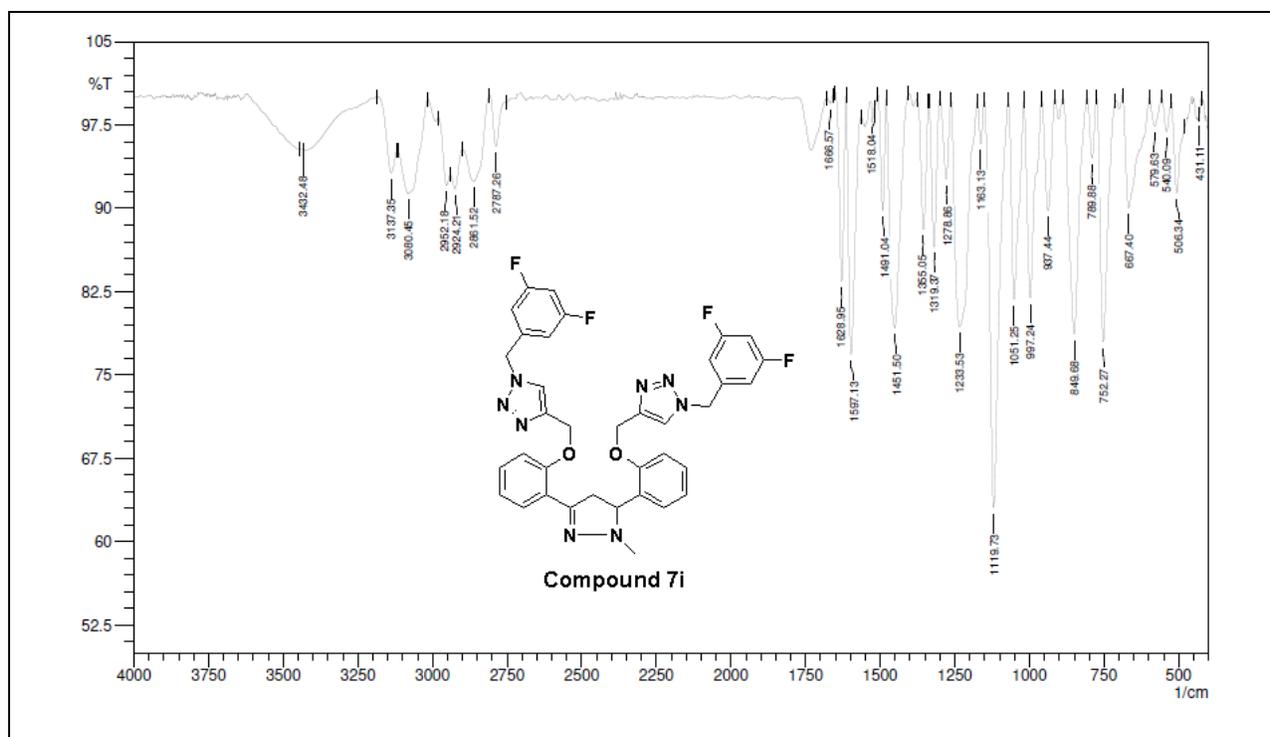


Figure S73: IR spectra of compound **7i**

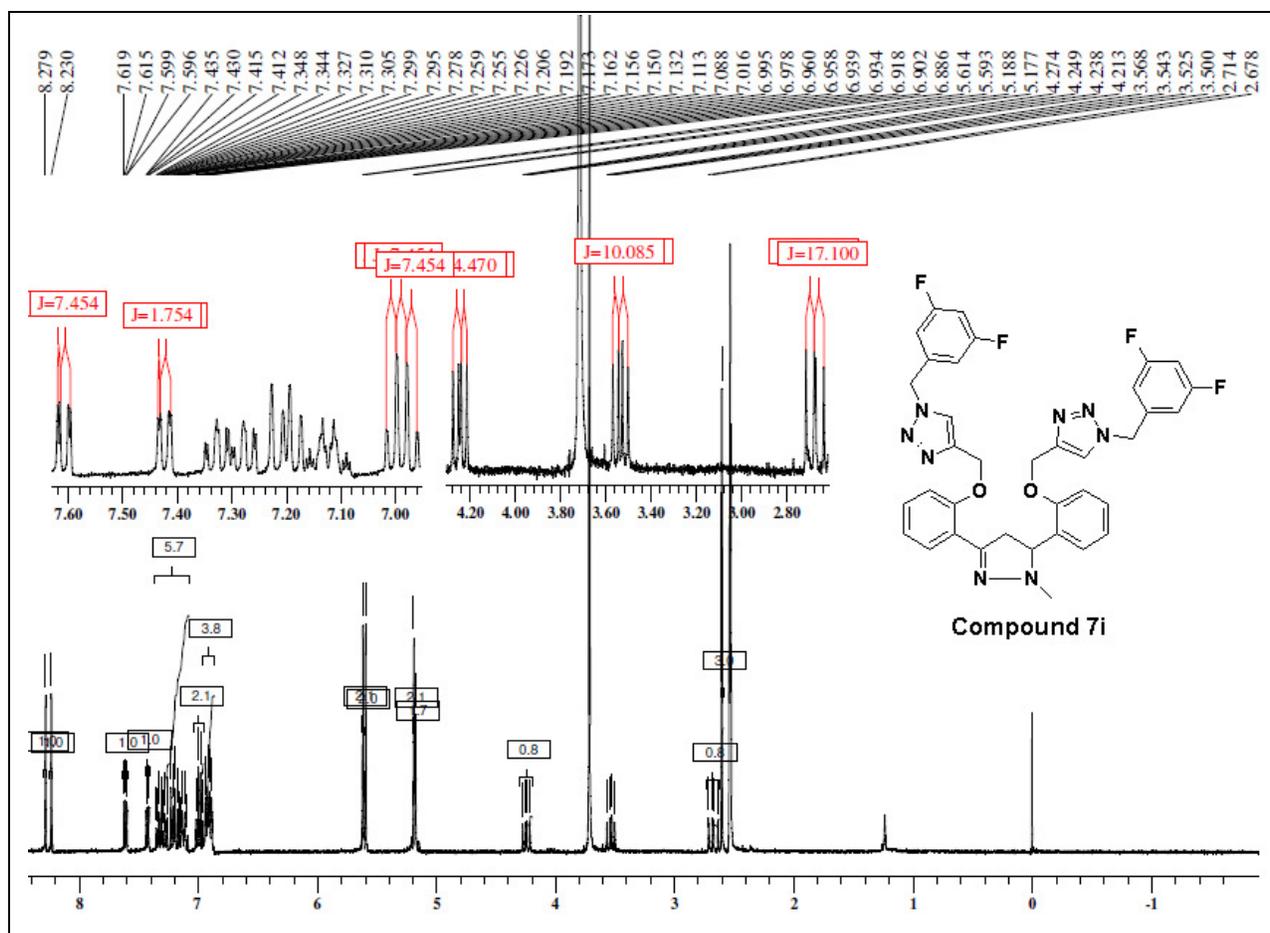


Figure S74: ¹H-NMR (400 MHz, DMSO-d₆) spectra of compound 7i

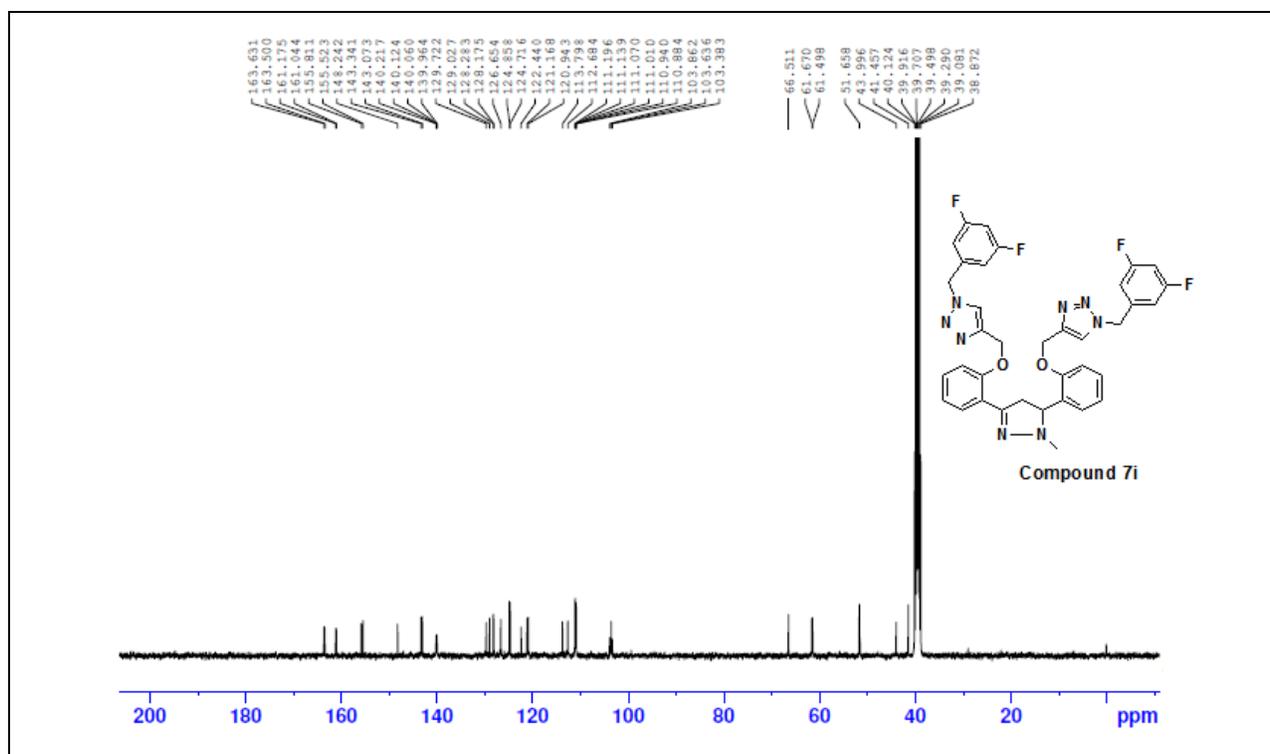


Figure S75: ^{13}C NMR (100 MHz, DMSO- d_6) spectra of compound 7i

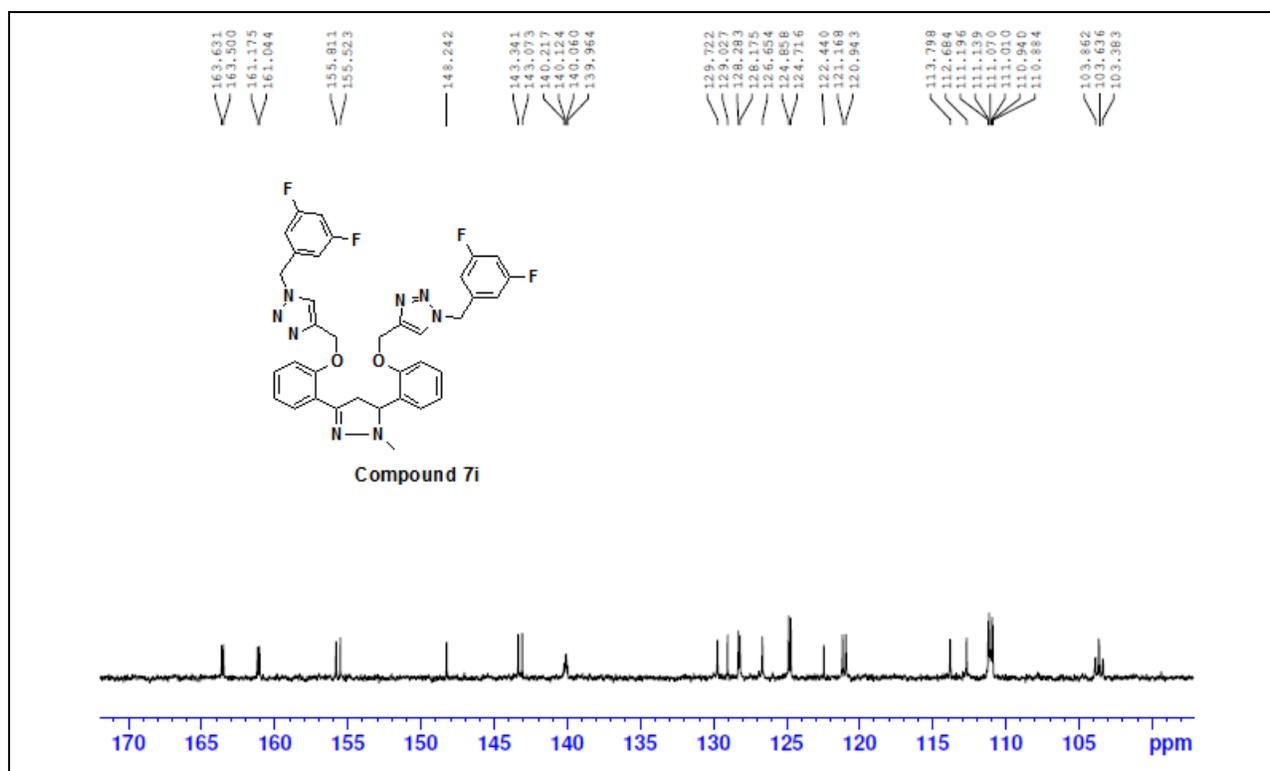


Figure S76: ^{13}C NMR (100 MHz, DMSO- d_6) spectra of compound 7i

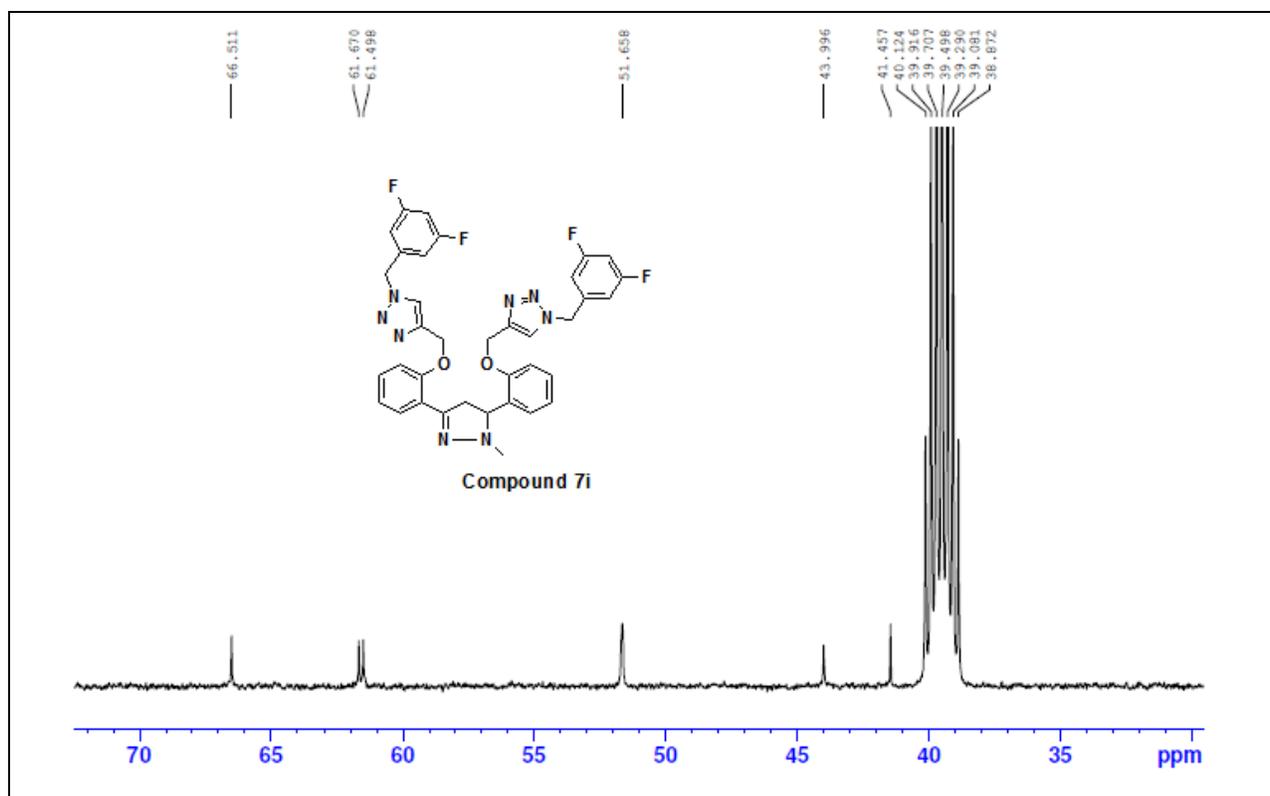


Figure S77: ^{13}C NMR (100 MHz, DMSO-d_6) spectra of compound **7i**

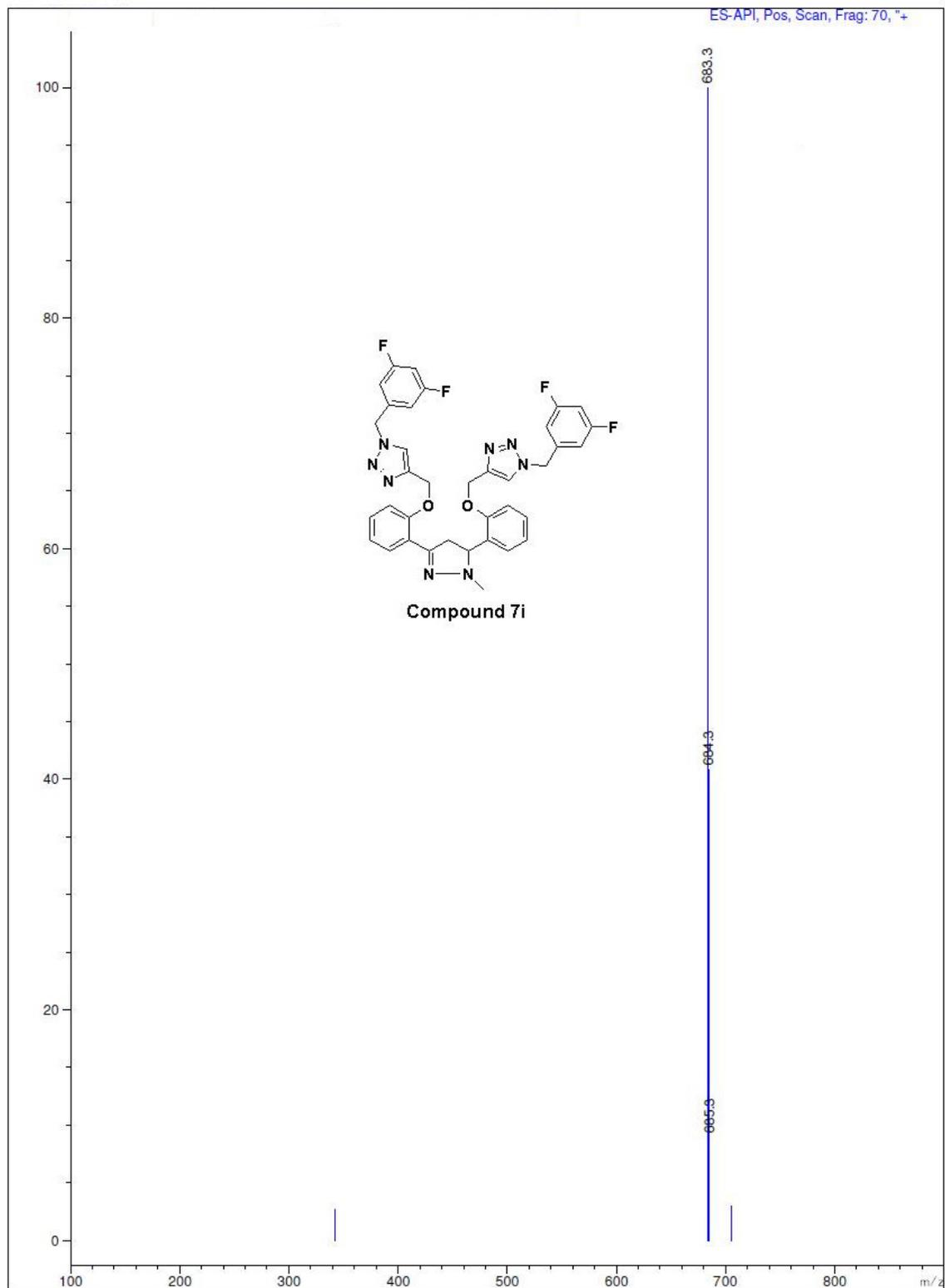


Figure S78: Mass spectra of compound 7i

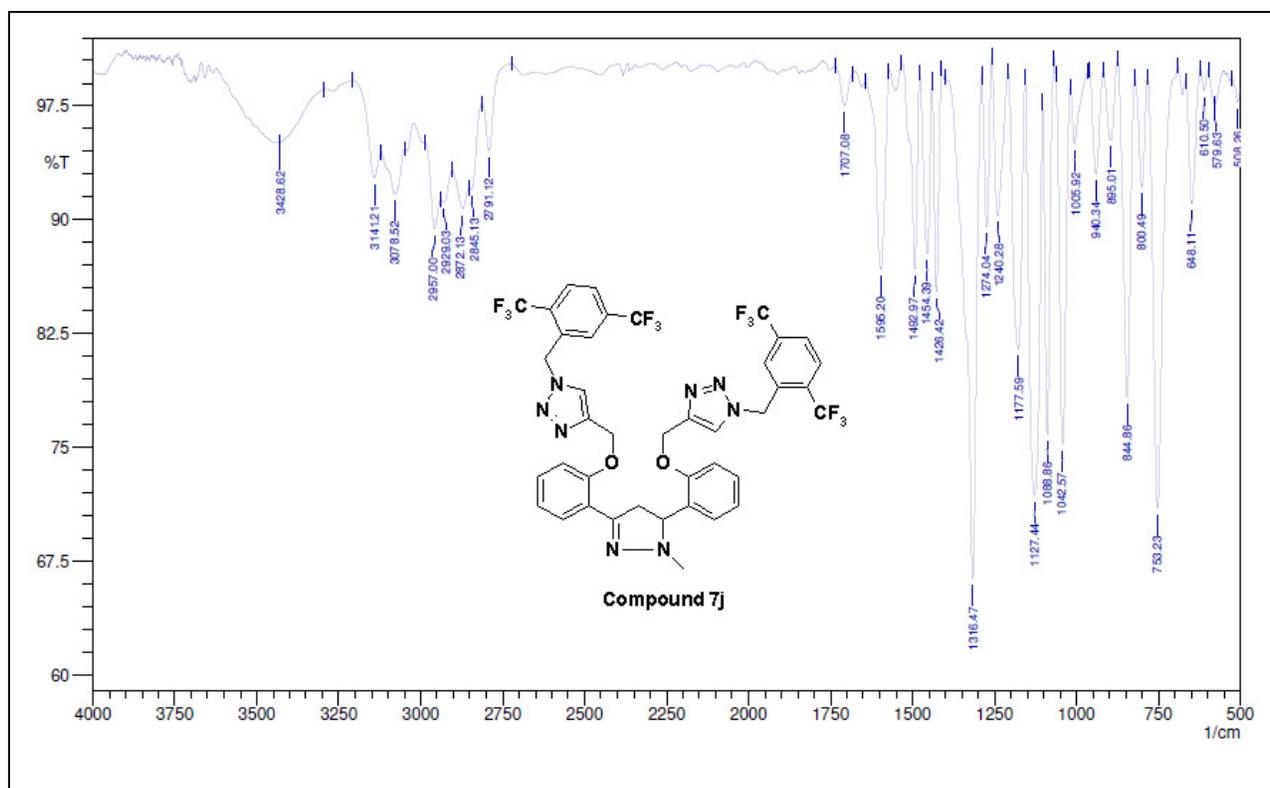
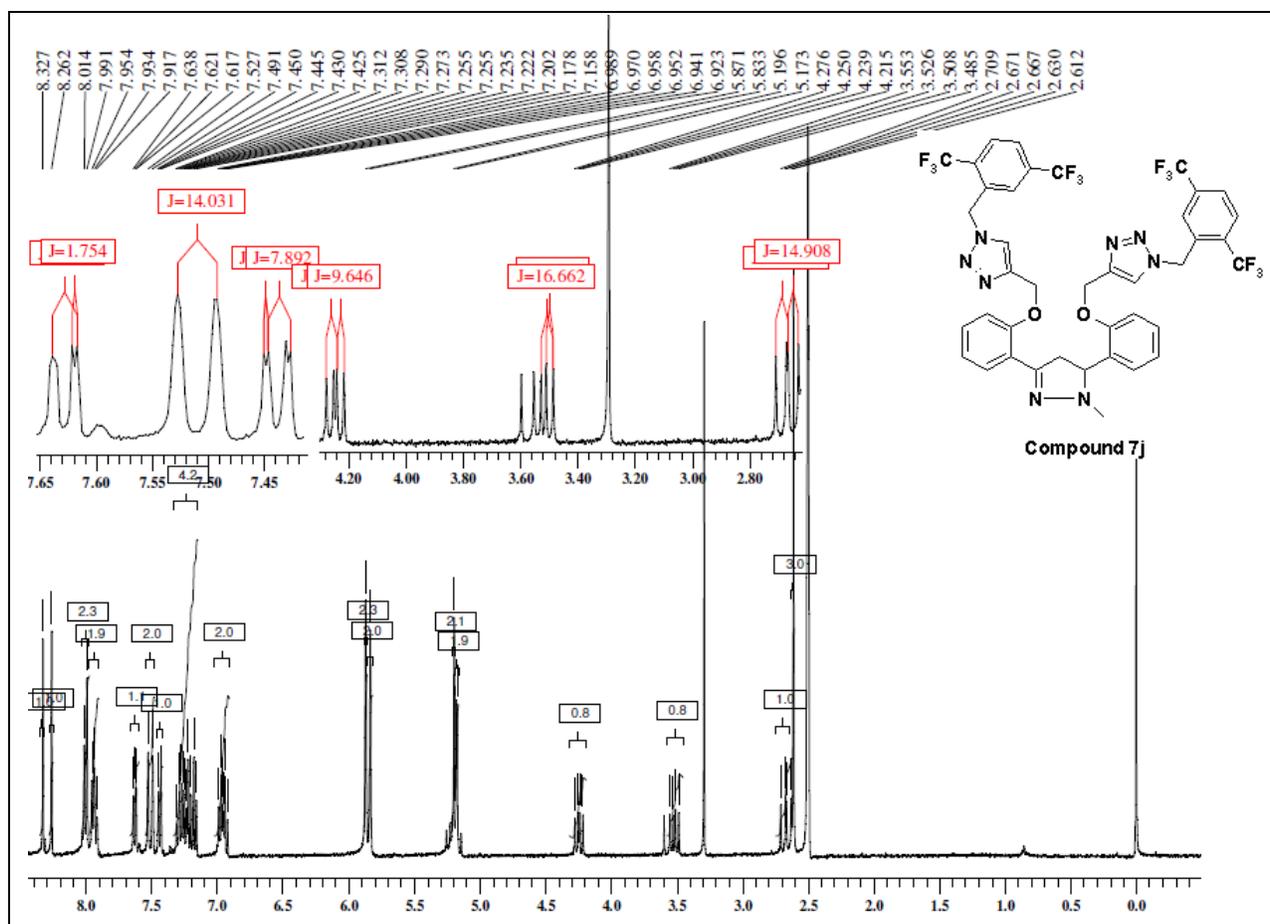


Figure S79: IR spectra of compound **7j**



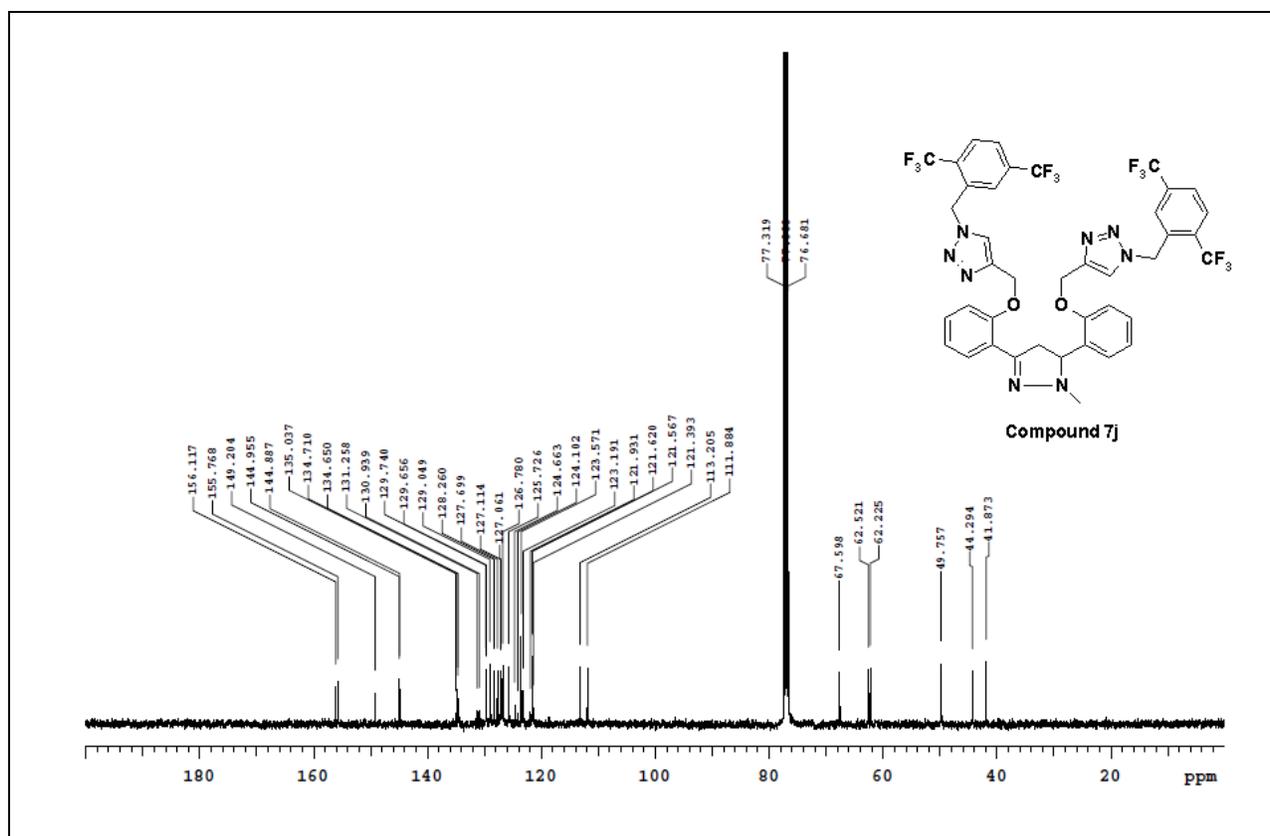


Figure S81: ¹³C NMR (100 MHz, CDCl₃) spectra of compound **7j**

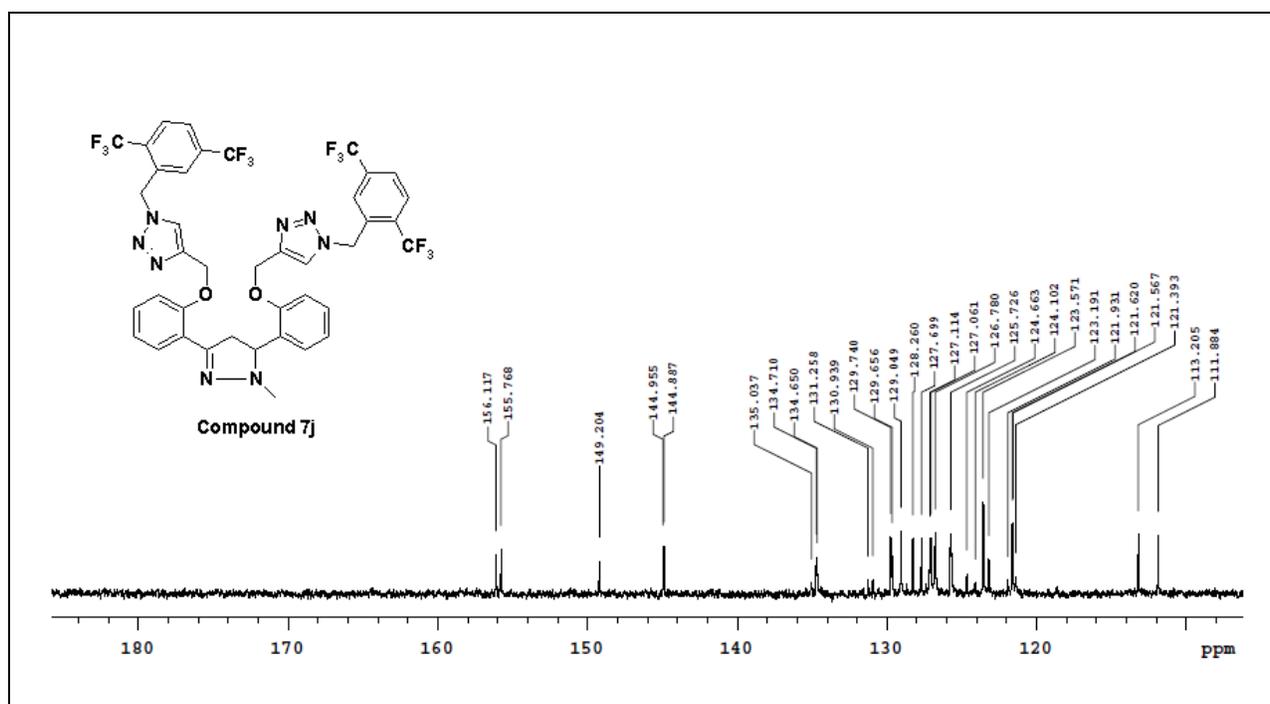


Figure S82: ¹³C NMR (100 MHz, CDCl₃) spectra of compound **7j**

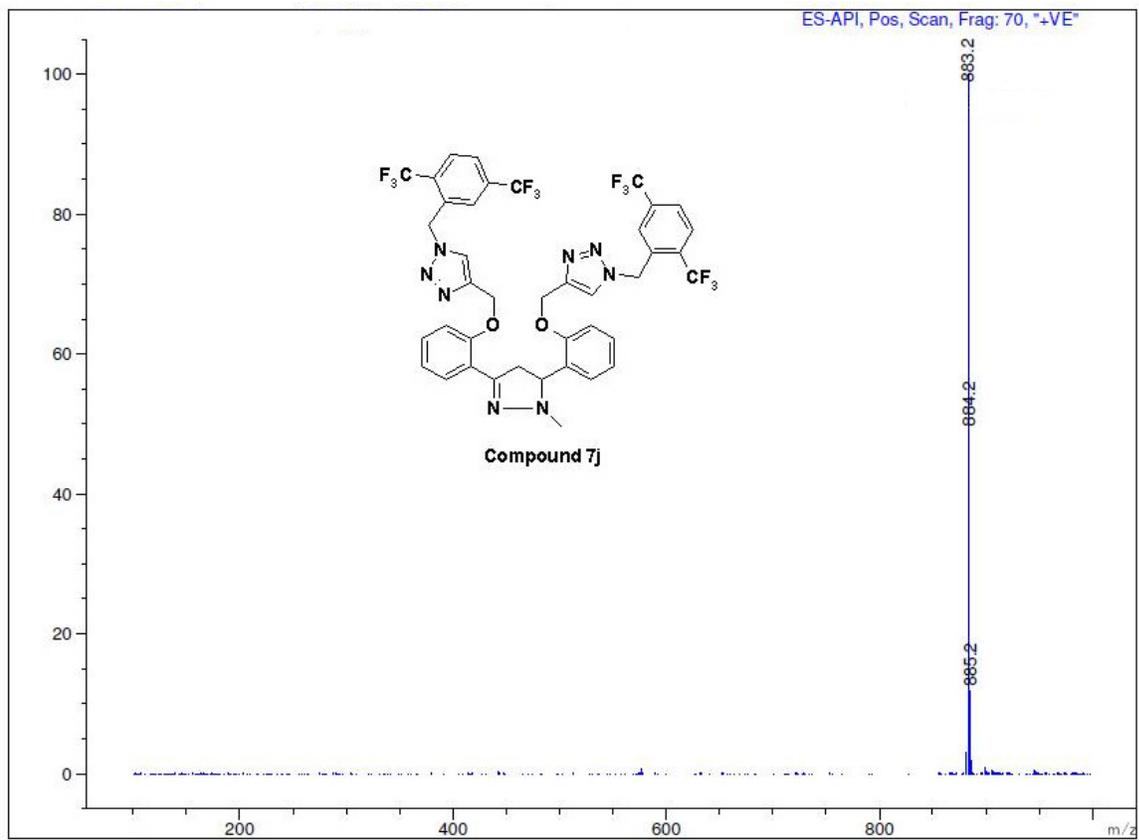


Figure S83: Mass spectra of compound 7j

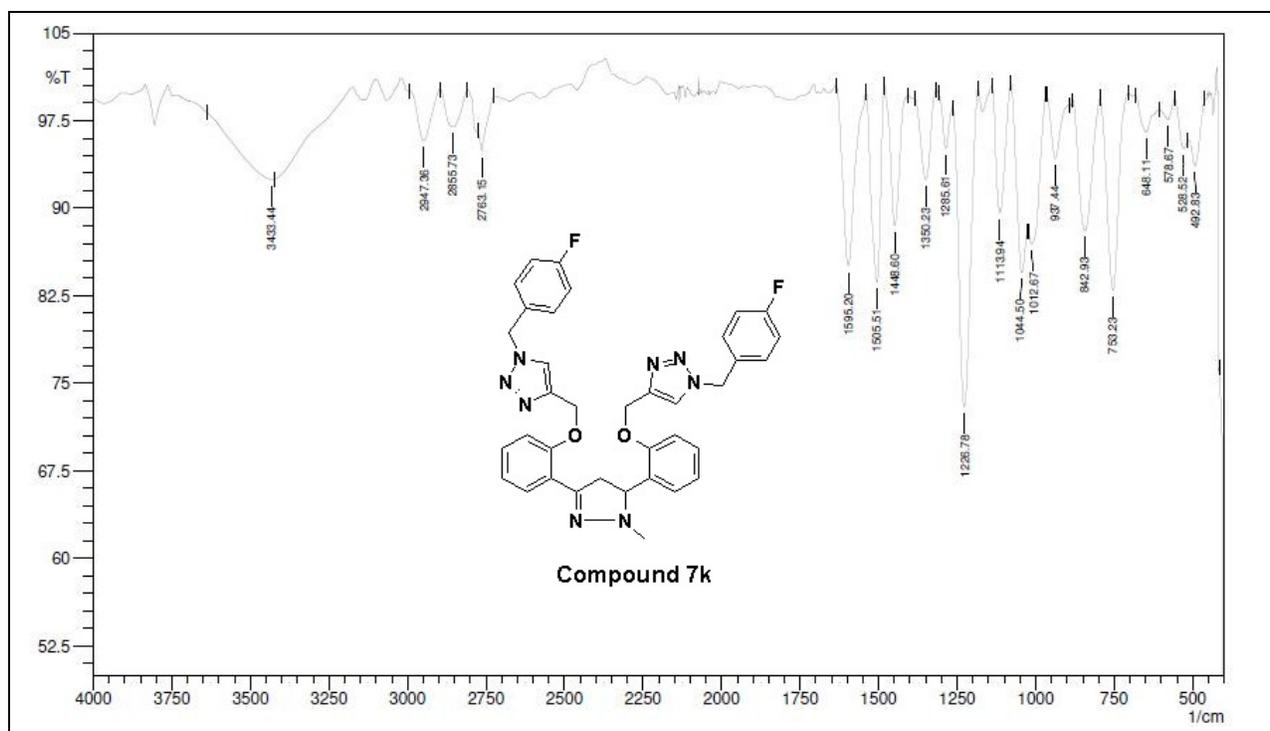
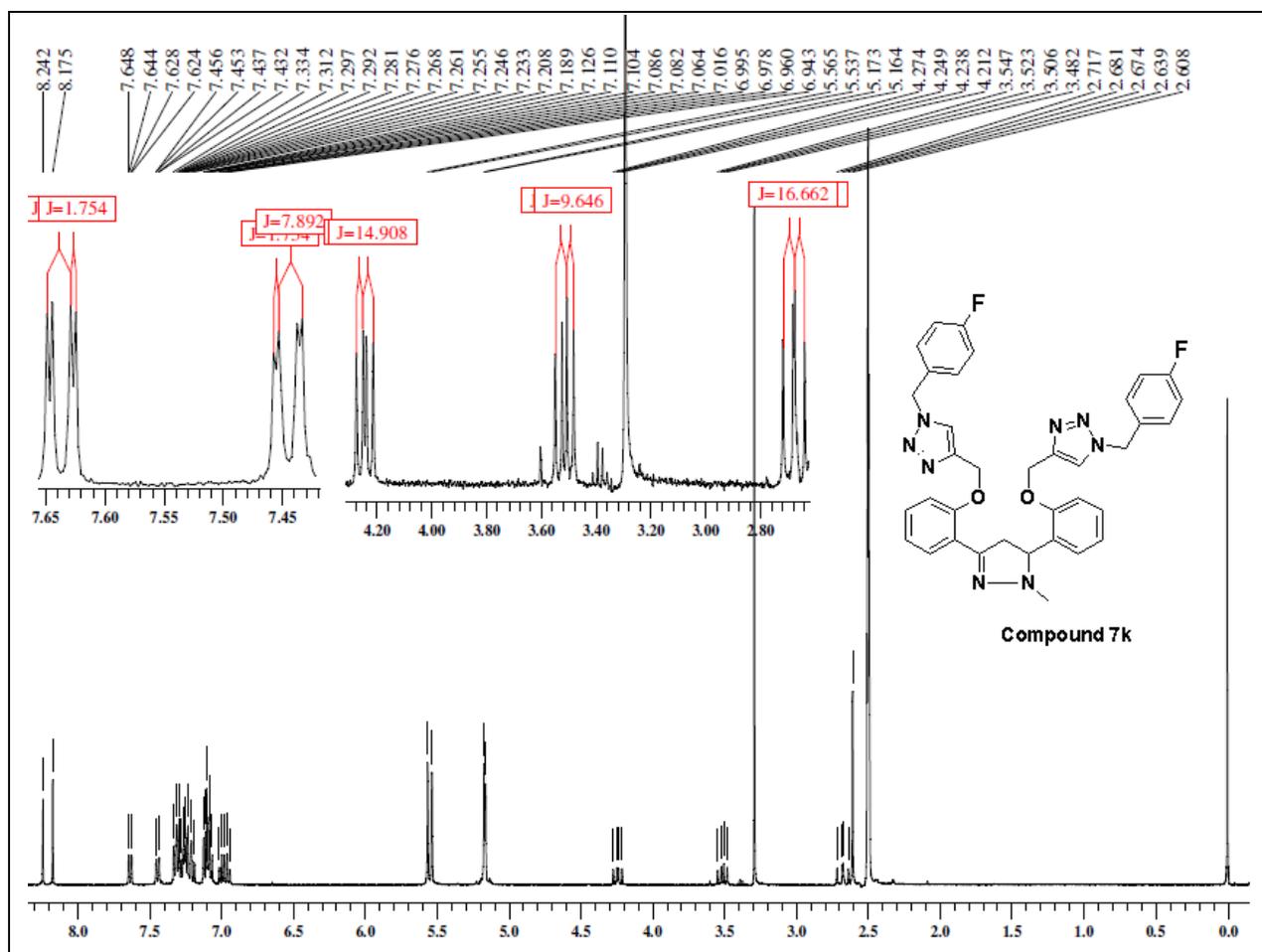


Figure S84: IR spectra of compound 7k



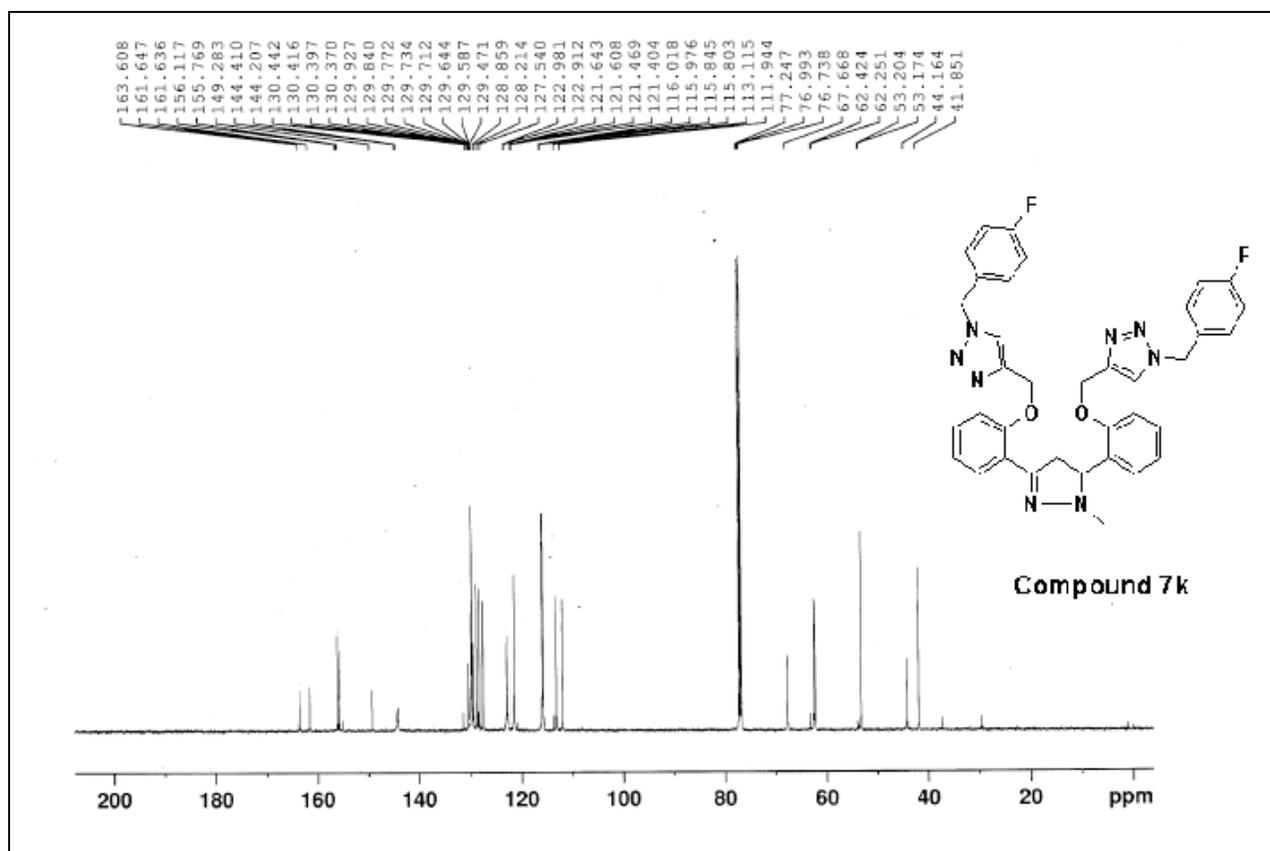


Figure S86: ^{13}C NMR (125 MHz, CDCl_3) spectra of compound **7k**

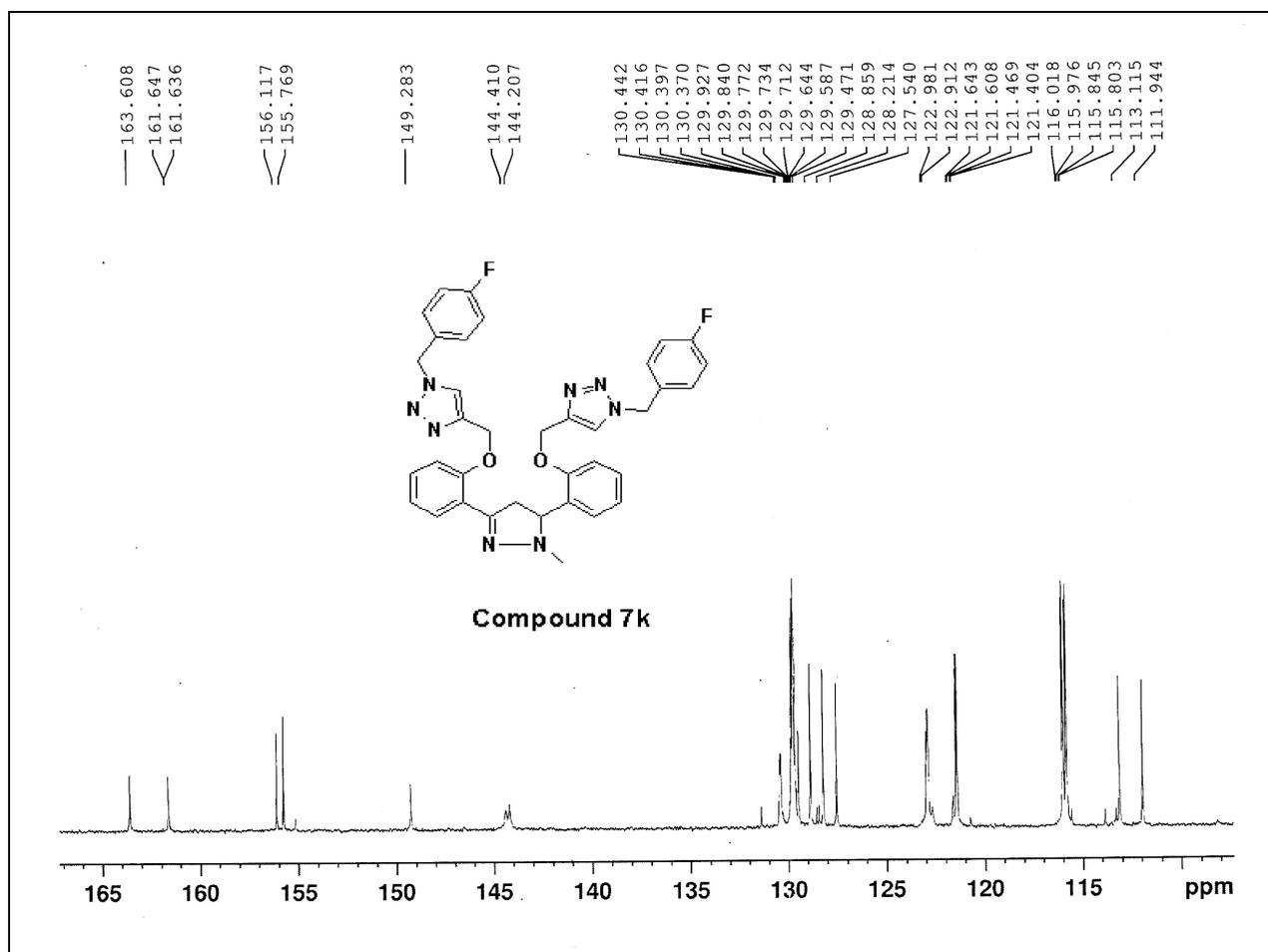


Figure S87: ^{13}C NMR (125 MHz, CDCl_3) spectra of compound 7k

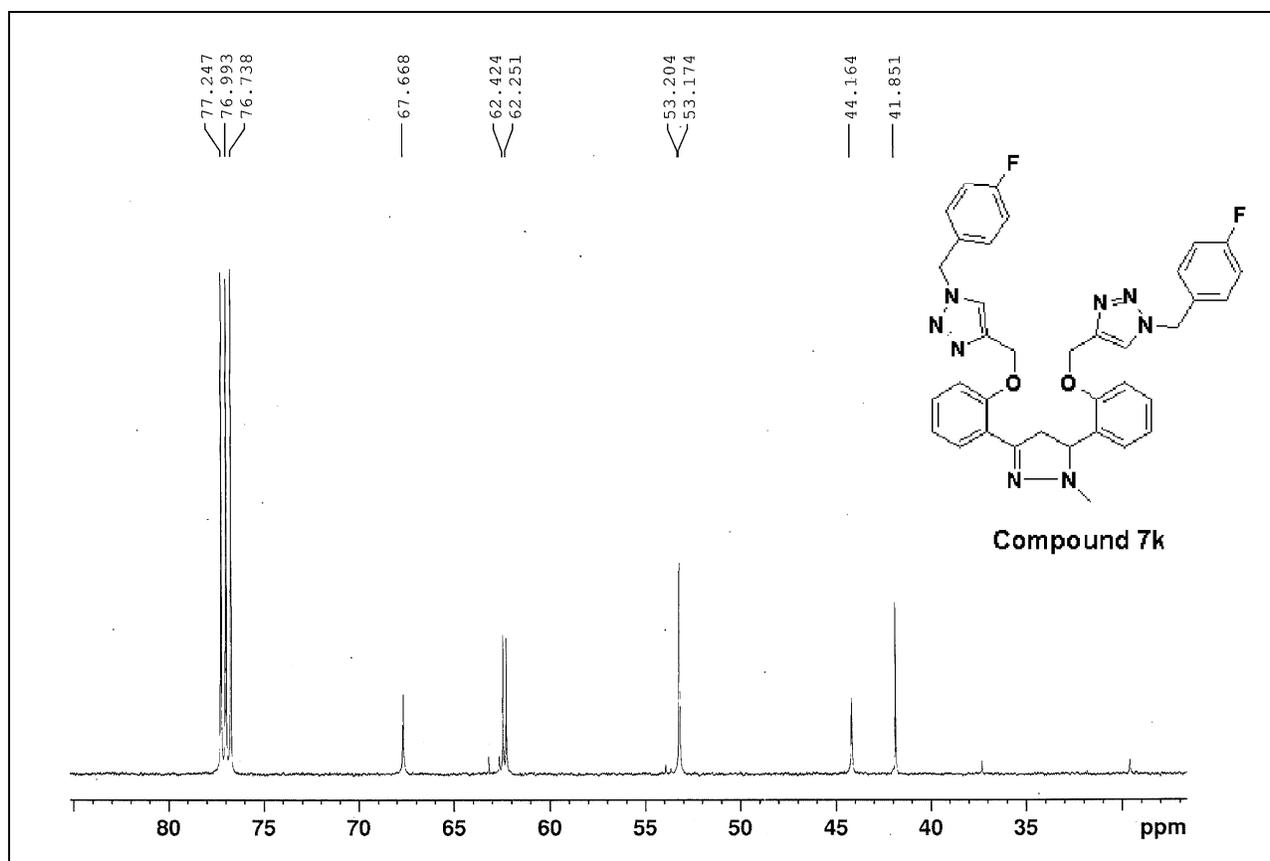


Figure S88: ^{13}C NMR (125 MHz, CDCl_3) spectra of compound 7k

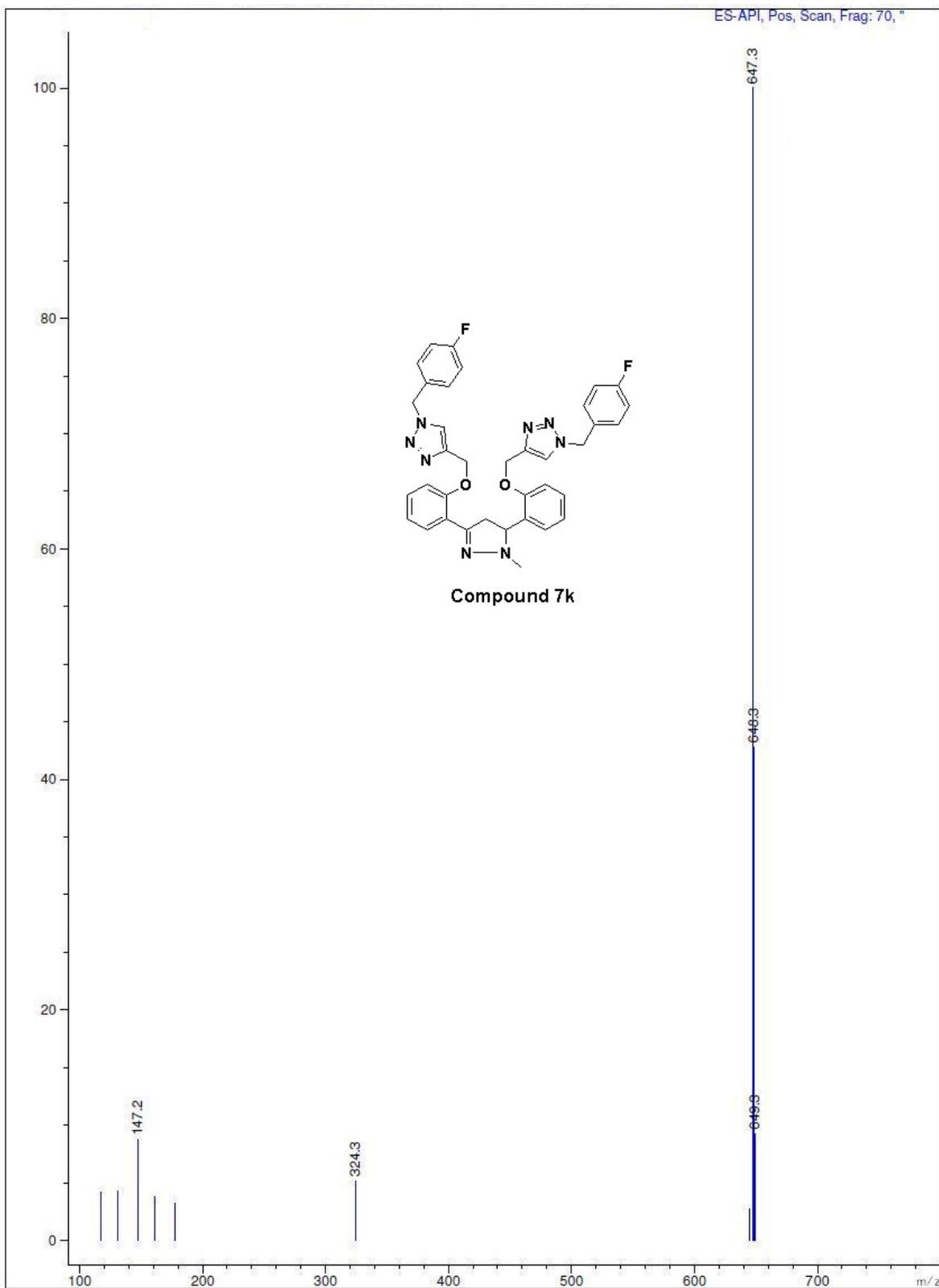


Figure S89: Mass spectra of compound 7k

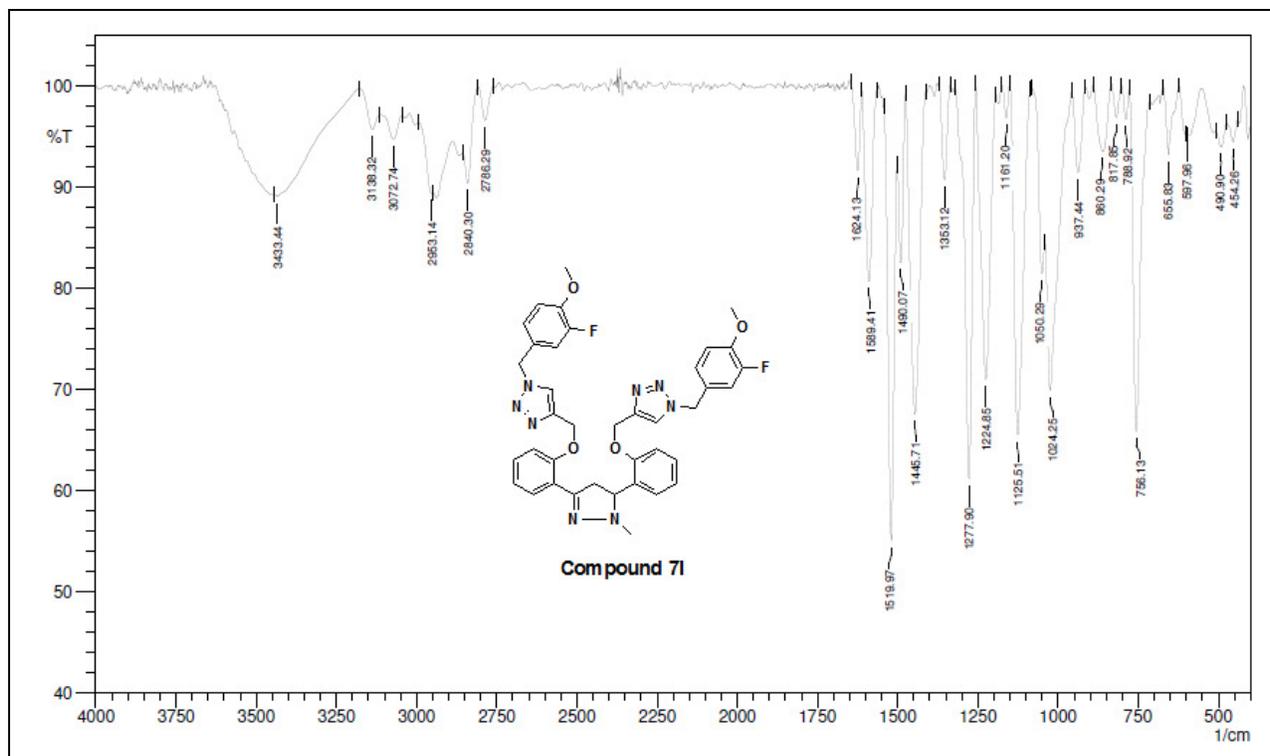
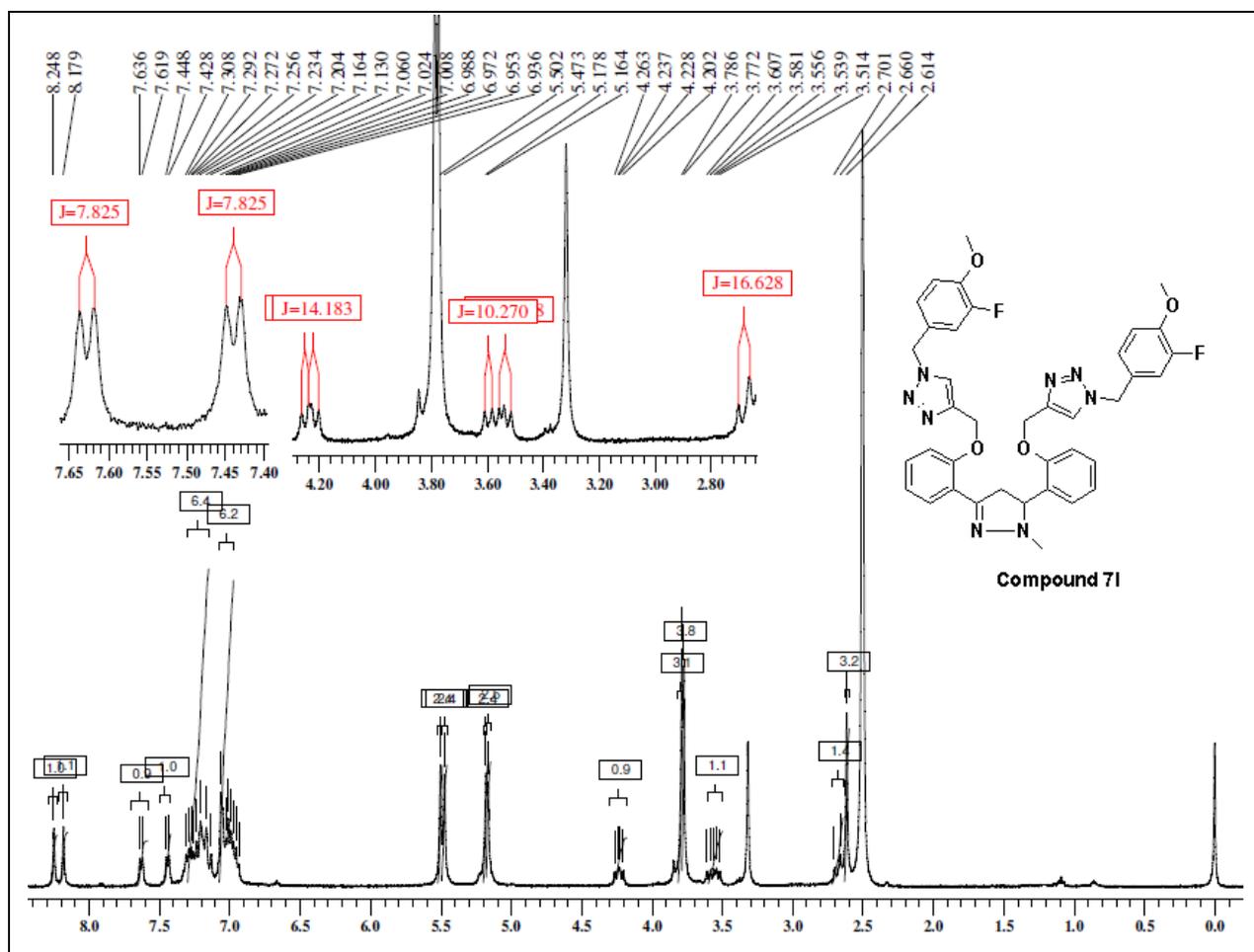


Figure S90: IR spectra of compound 71



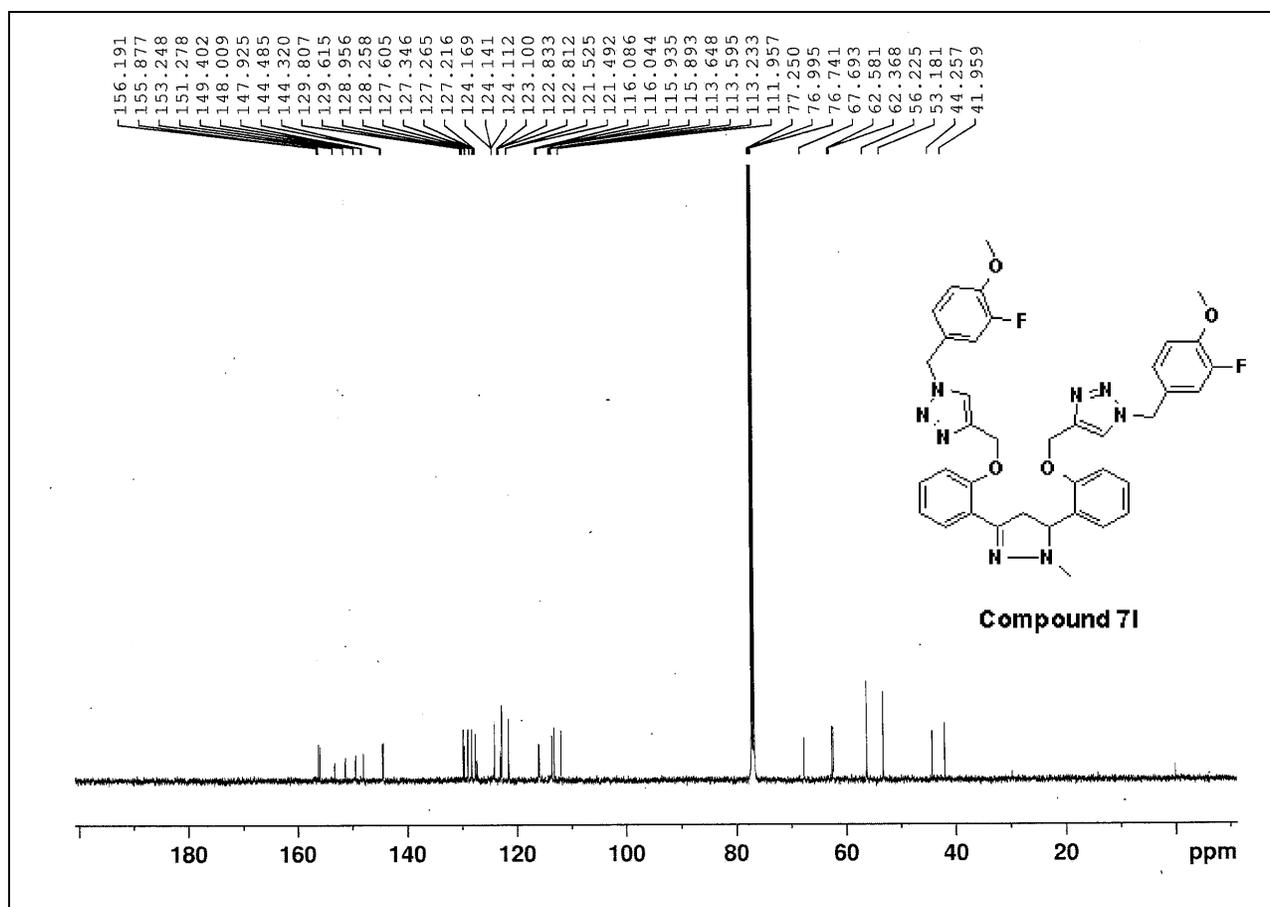


Figure S92: ^{13}C NMR (125 MHz, CDCl_3) spectra of compound 71

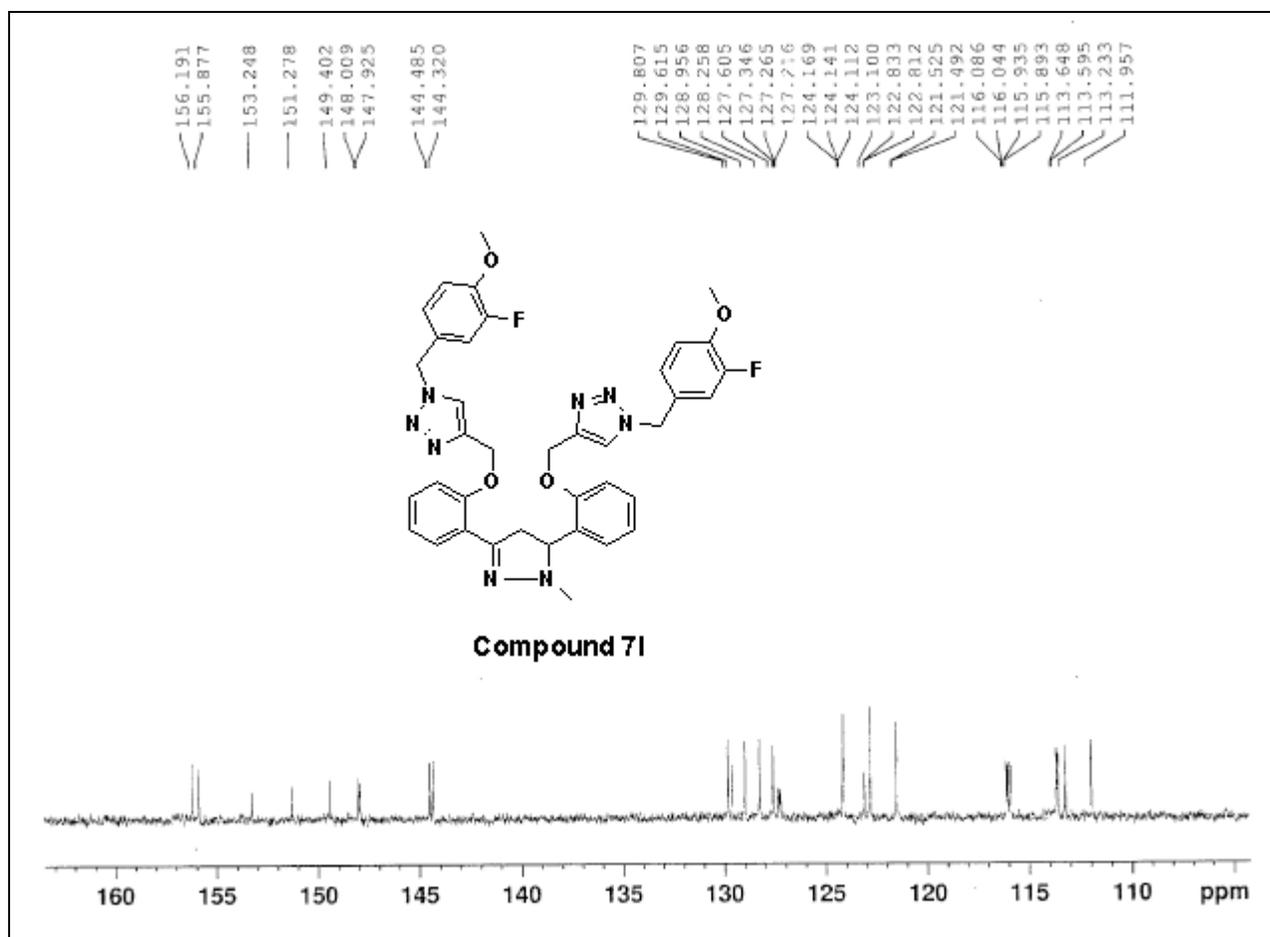


Figure S93: ^{13}C NMR (125 MHz, CDCl_3) spectra of compound 71

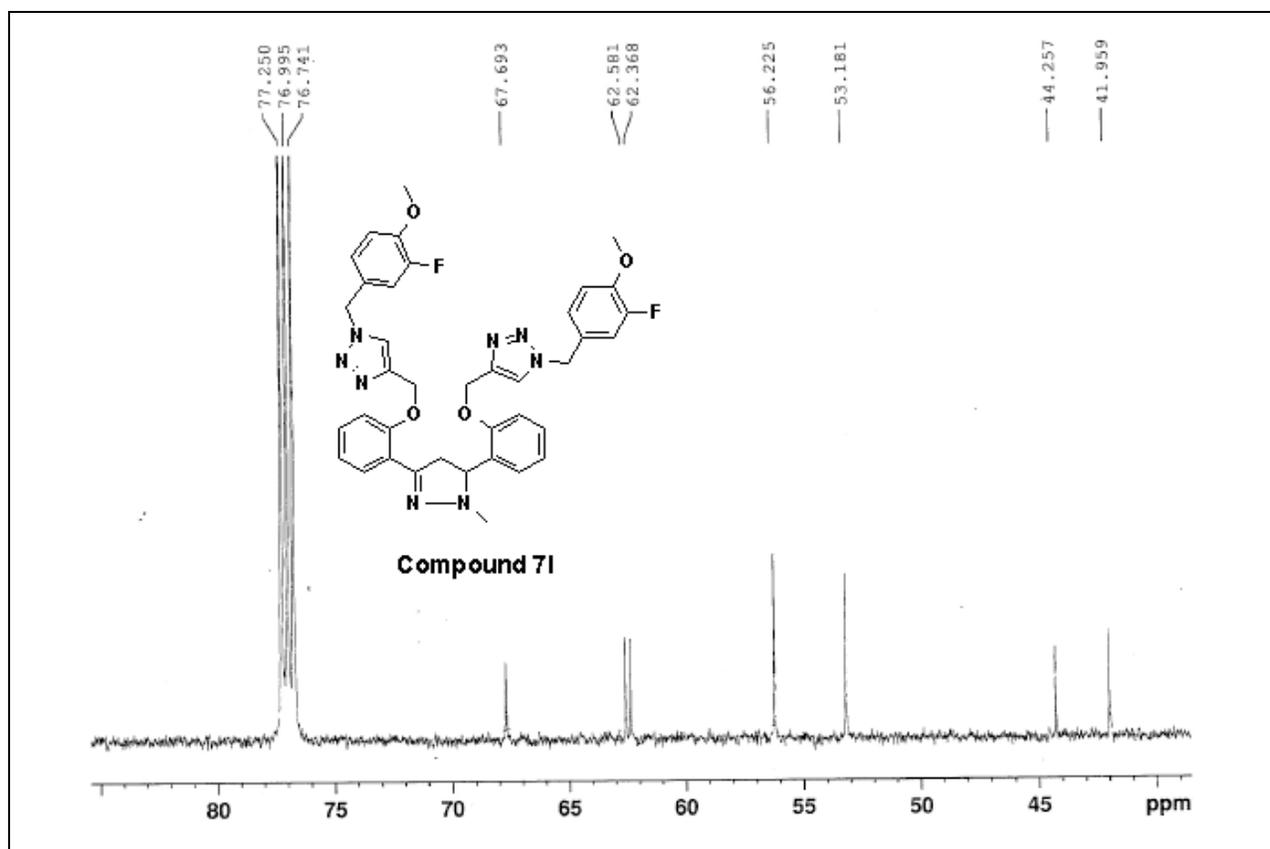


Figure S94: ^{13}C NMR (125 MHz, CDCl_3) spectra of compound **71**

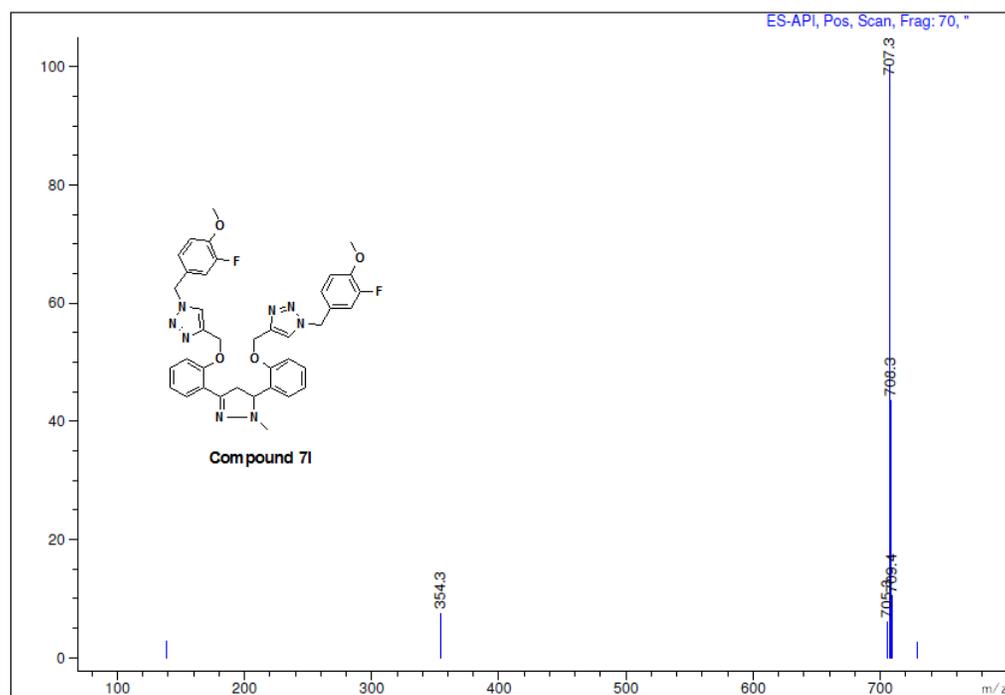


Figure S95: Mass spectra of compound **71**

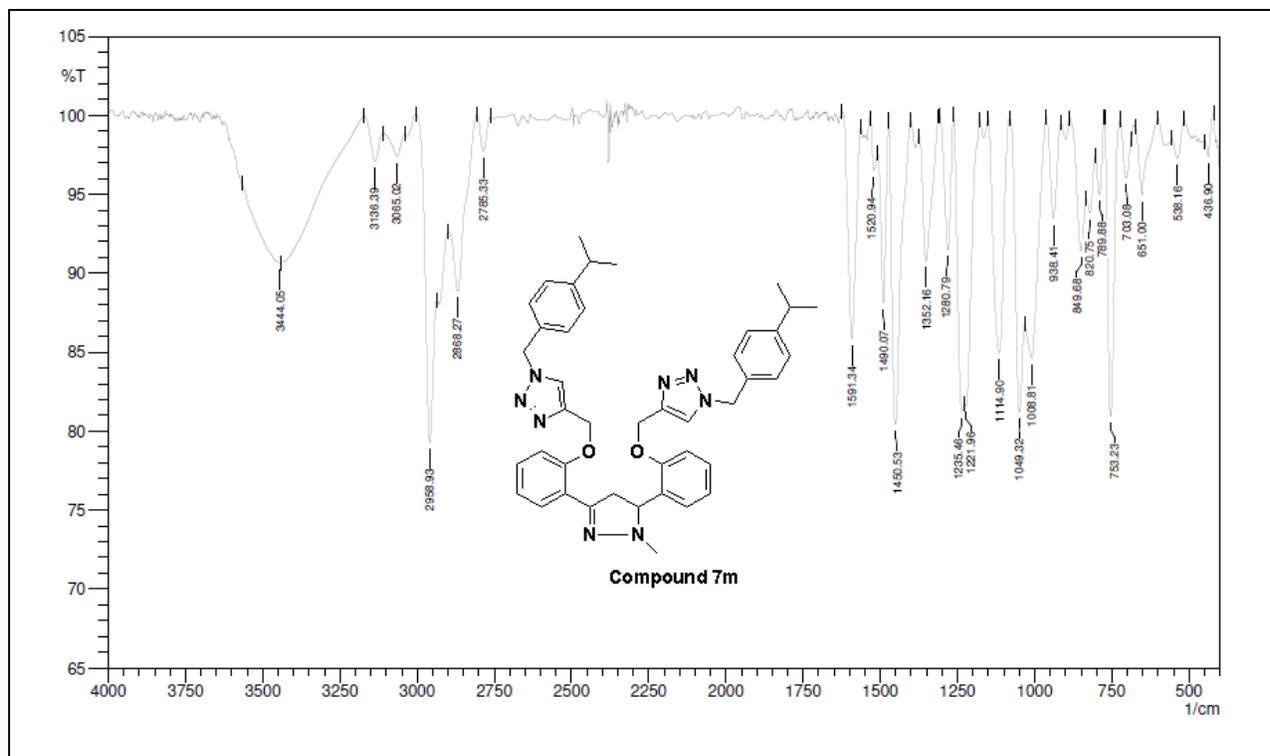


Figure S96: IR spectra of compound 7m

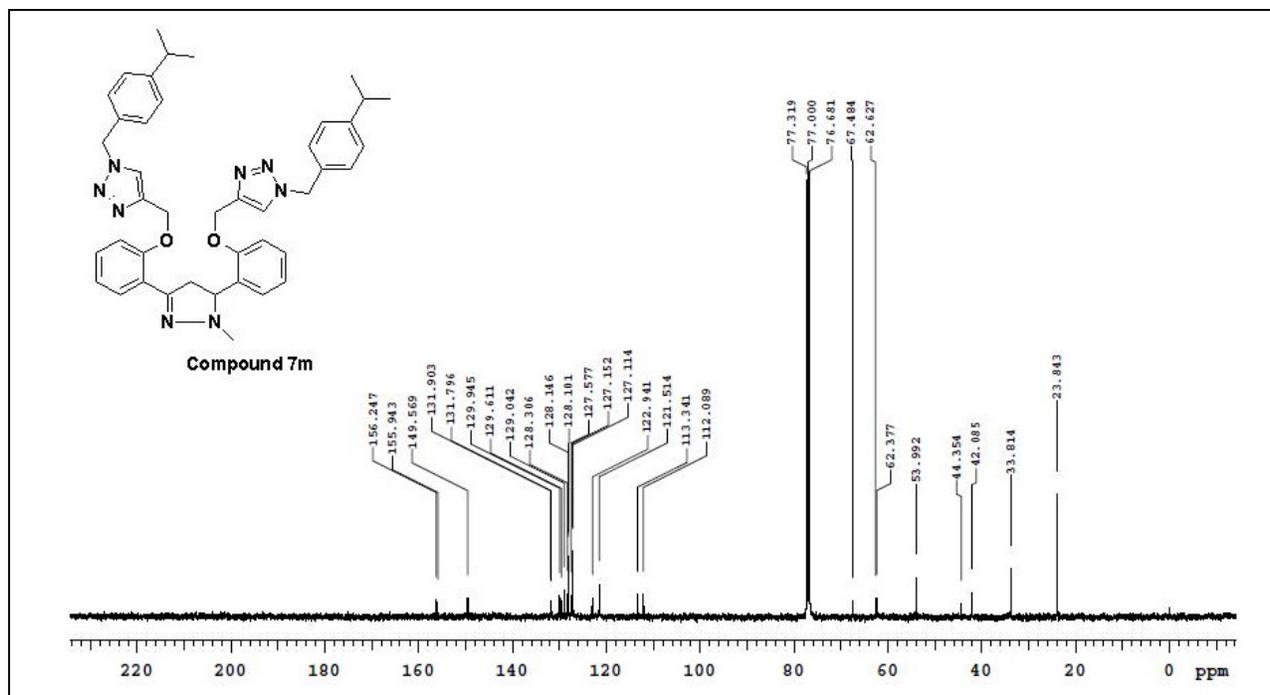


Figure S98: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **7m**

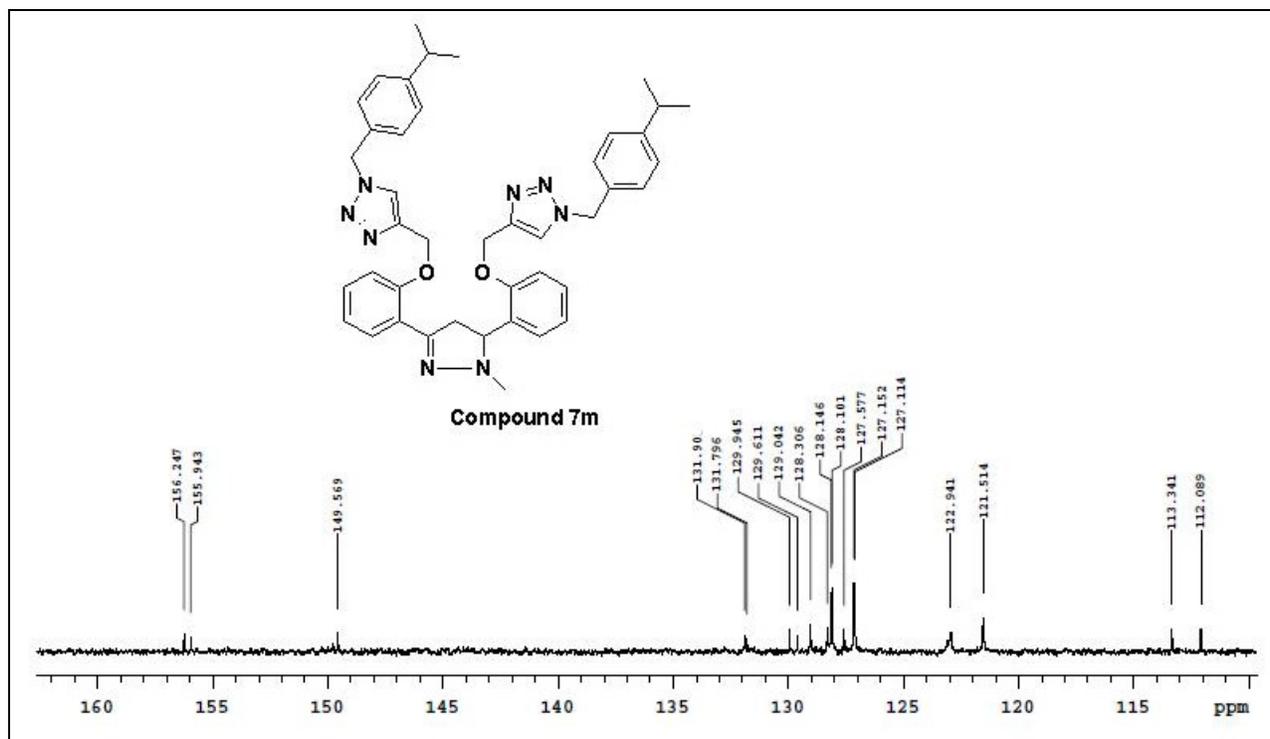


Figure S99: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **7m**

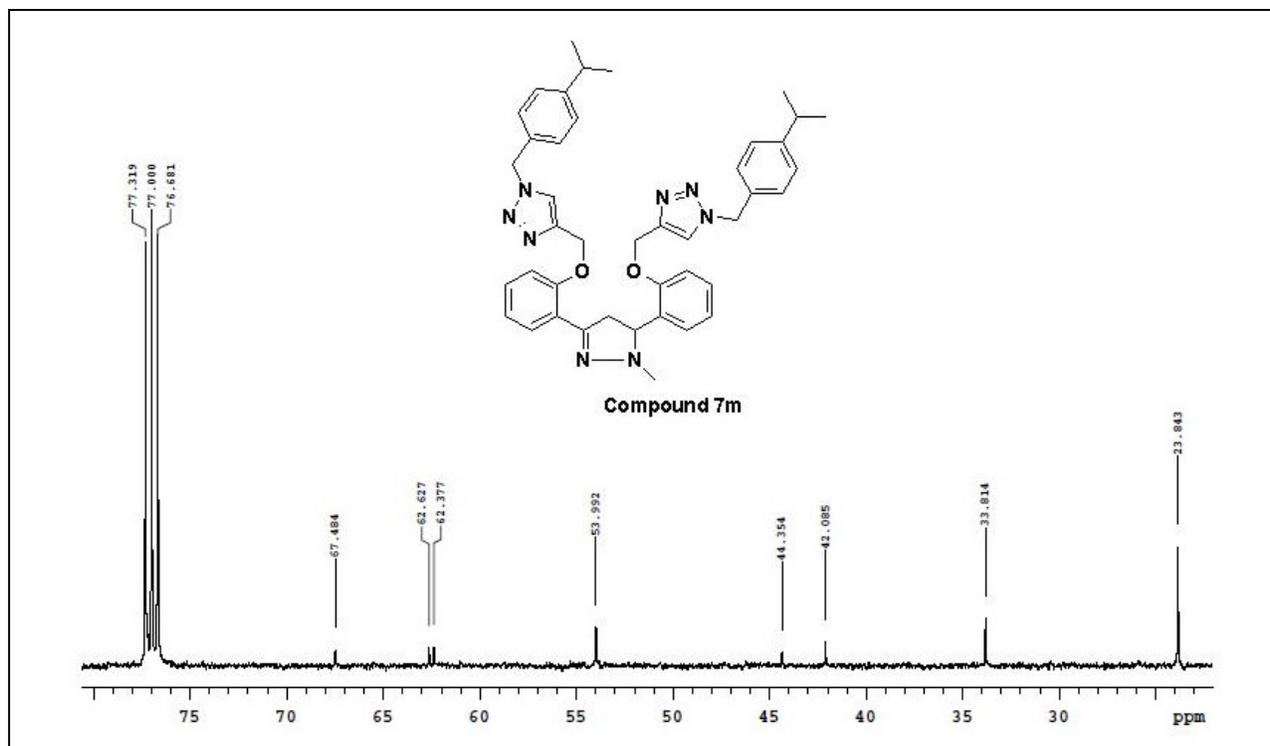


Figure S100: ^{13}C NMR (100 MHz, CDCl_3) spectra of compound **7l**

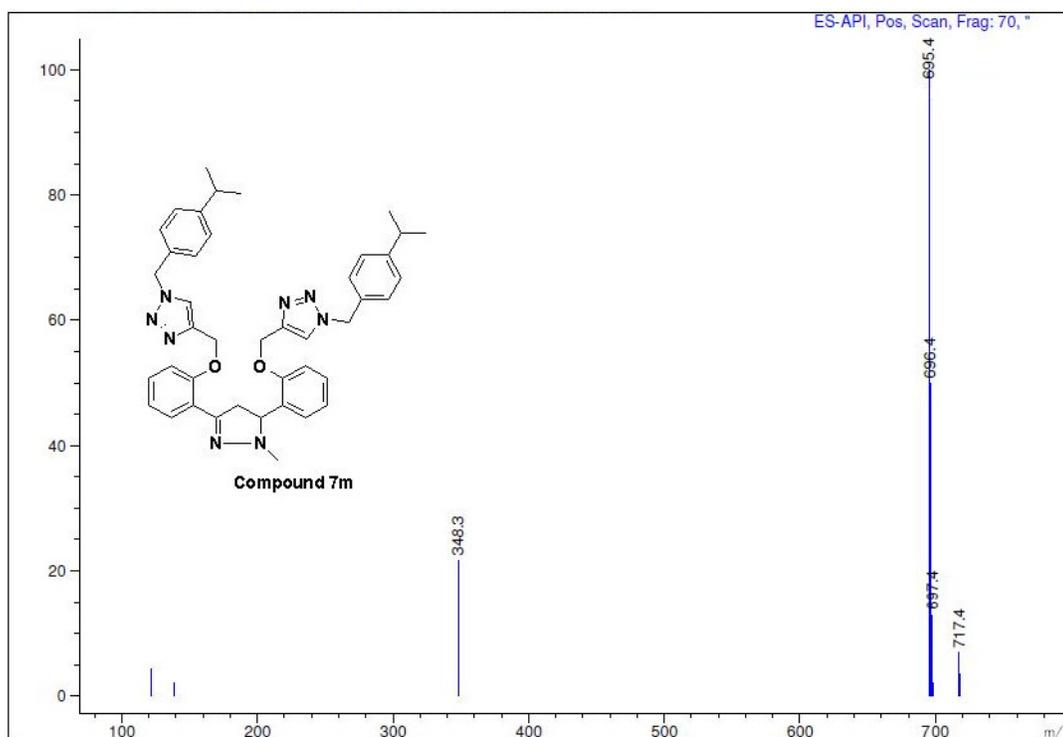


Figure S101: Mass spectra of compound **7m**