

Supplementary Materials: Synthesis of Novel Symmetrical 1,4-Disubstituted 1,2,3-Bistriazole Derivatives via 'Click Chemistry' and Biological Evaluation

Esra Düğdü, Dilek Ünlüer, Fatih Çelik, Kemal Sancak, Şengül Alpay, Karaoğlu and Arzu Özel

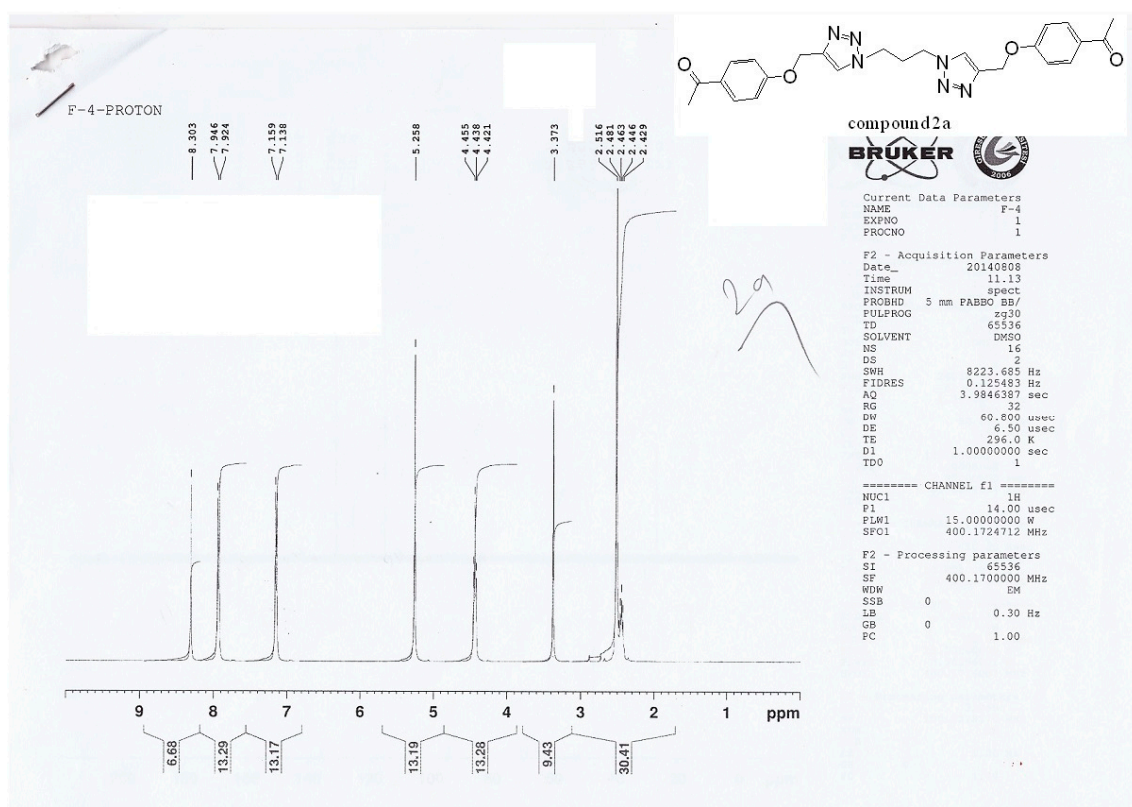
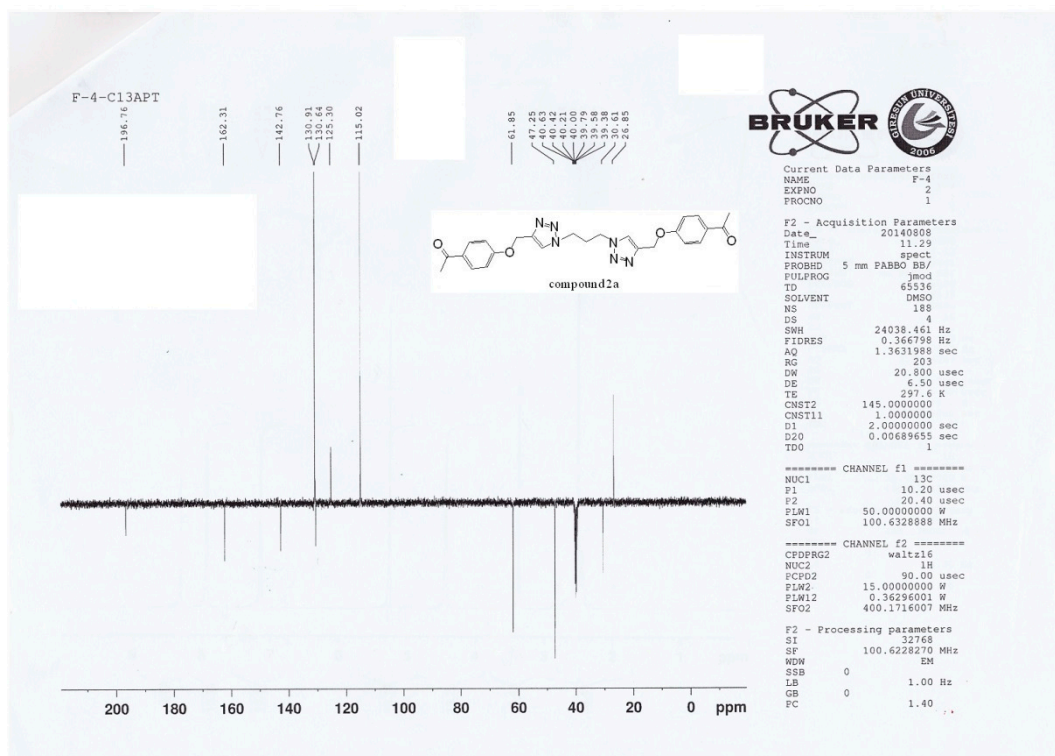
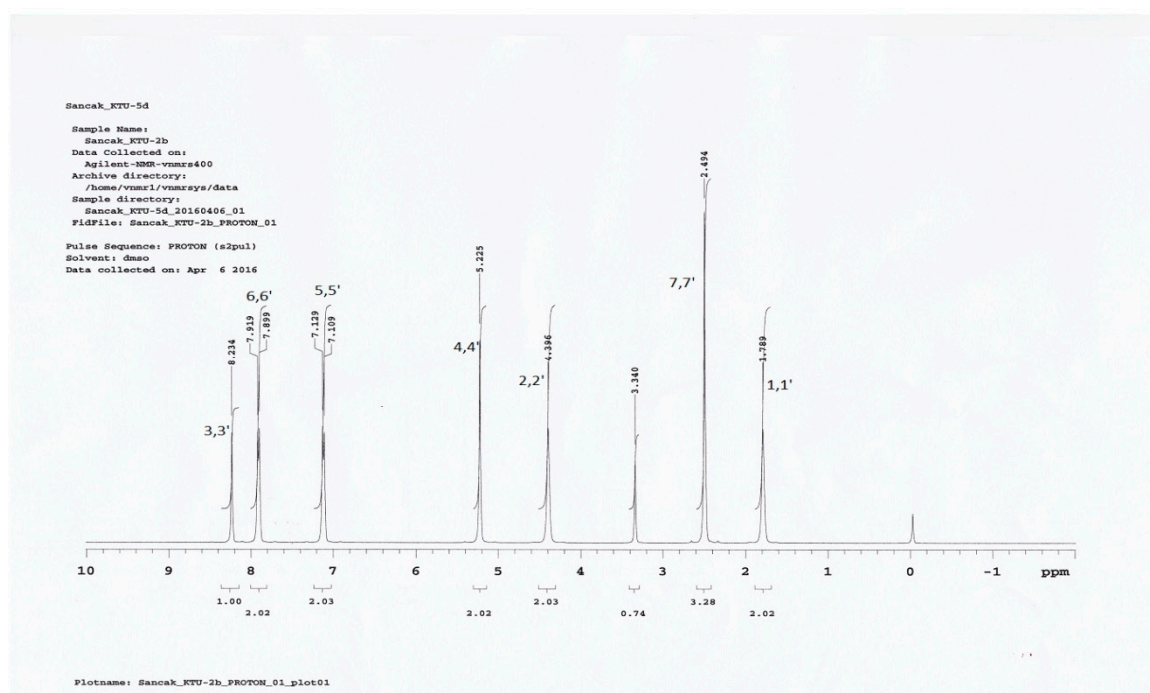
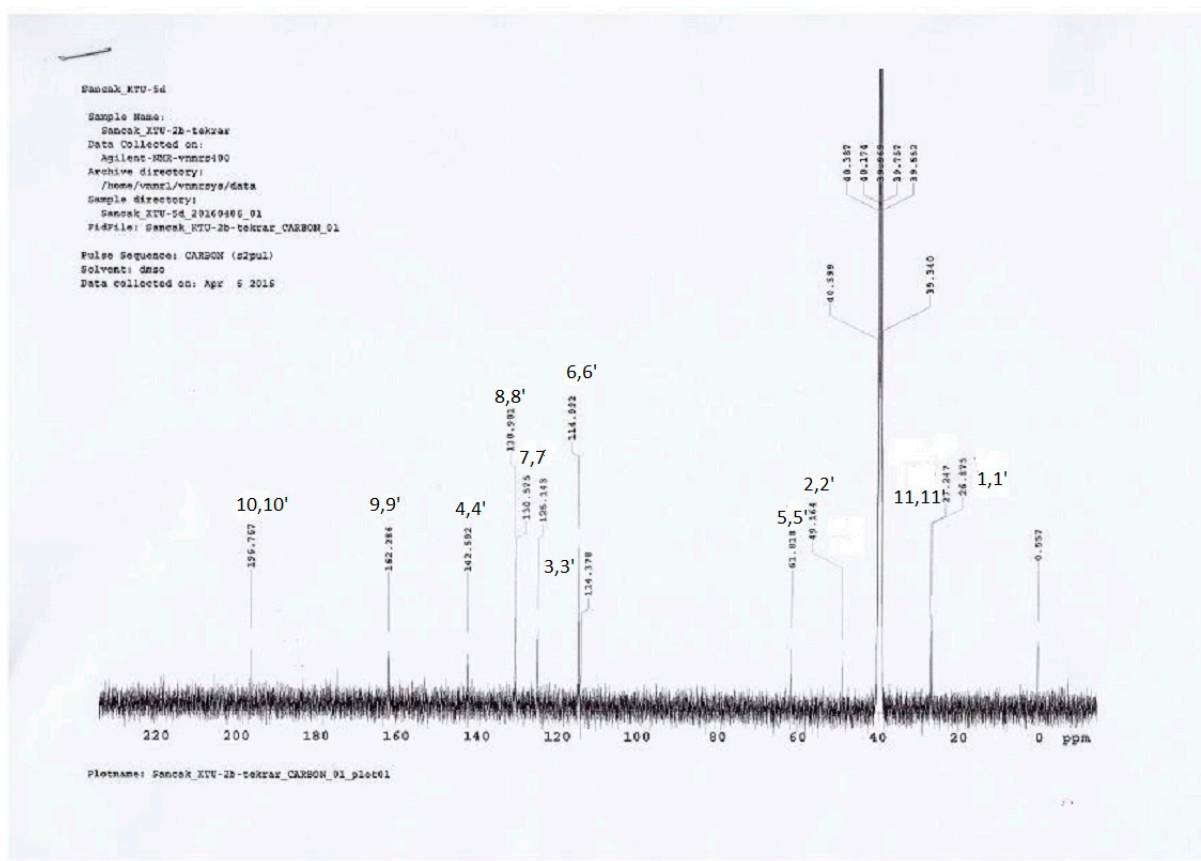
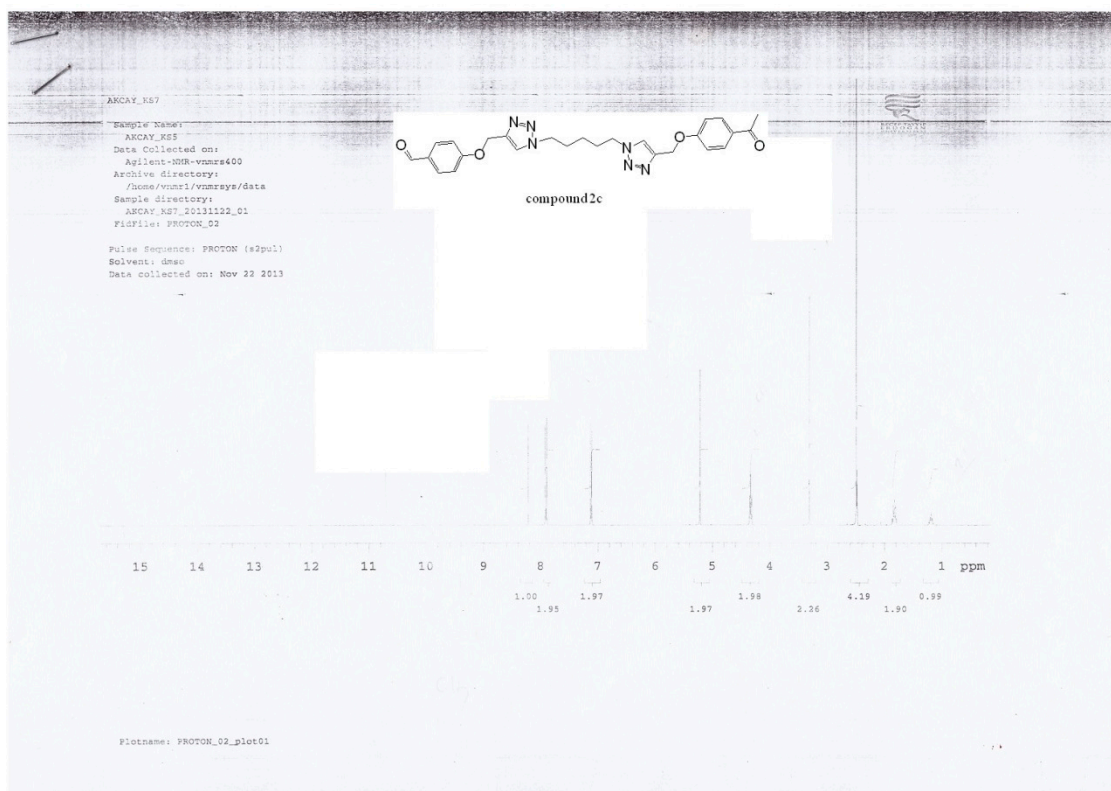
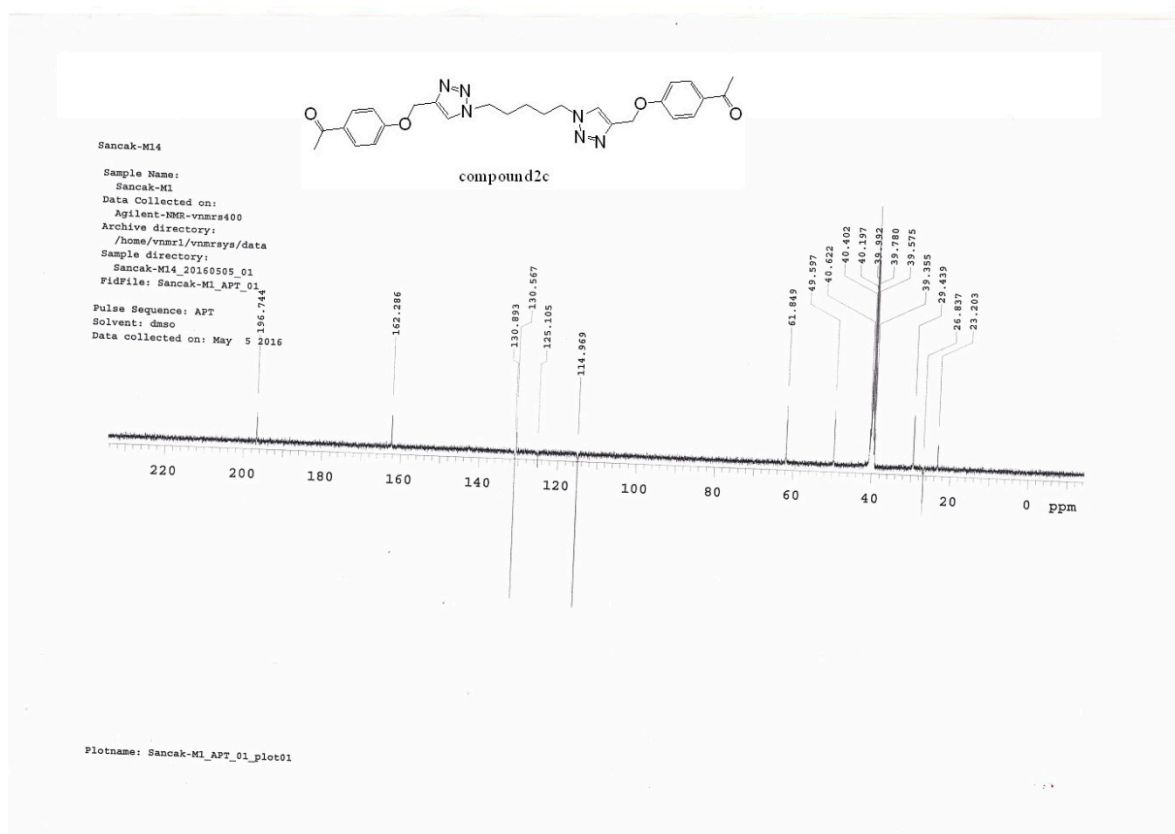
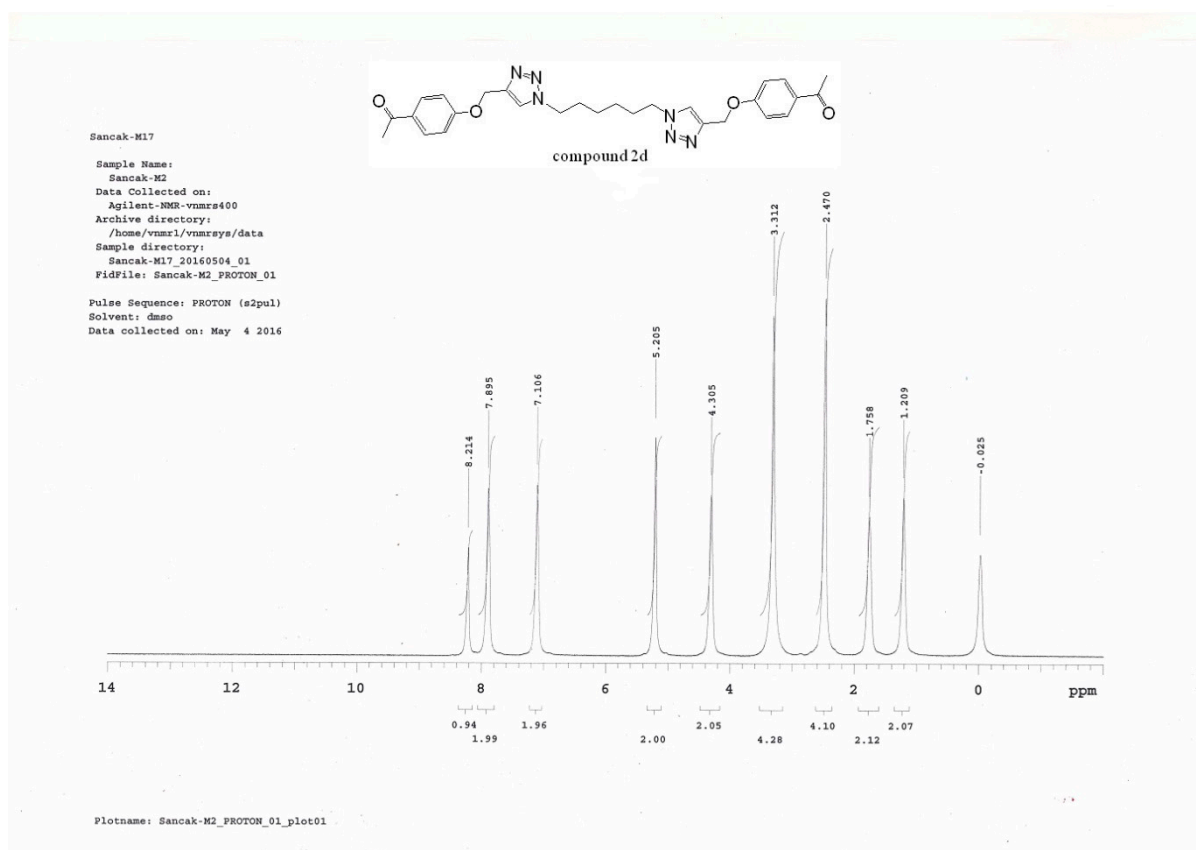
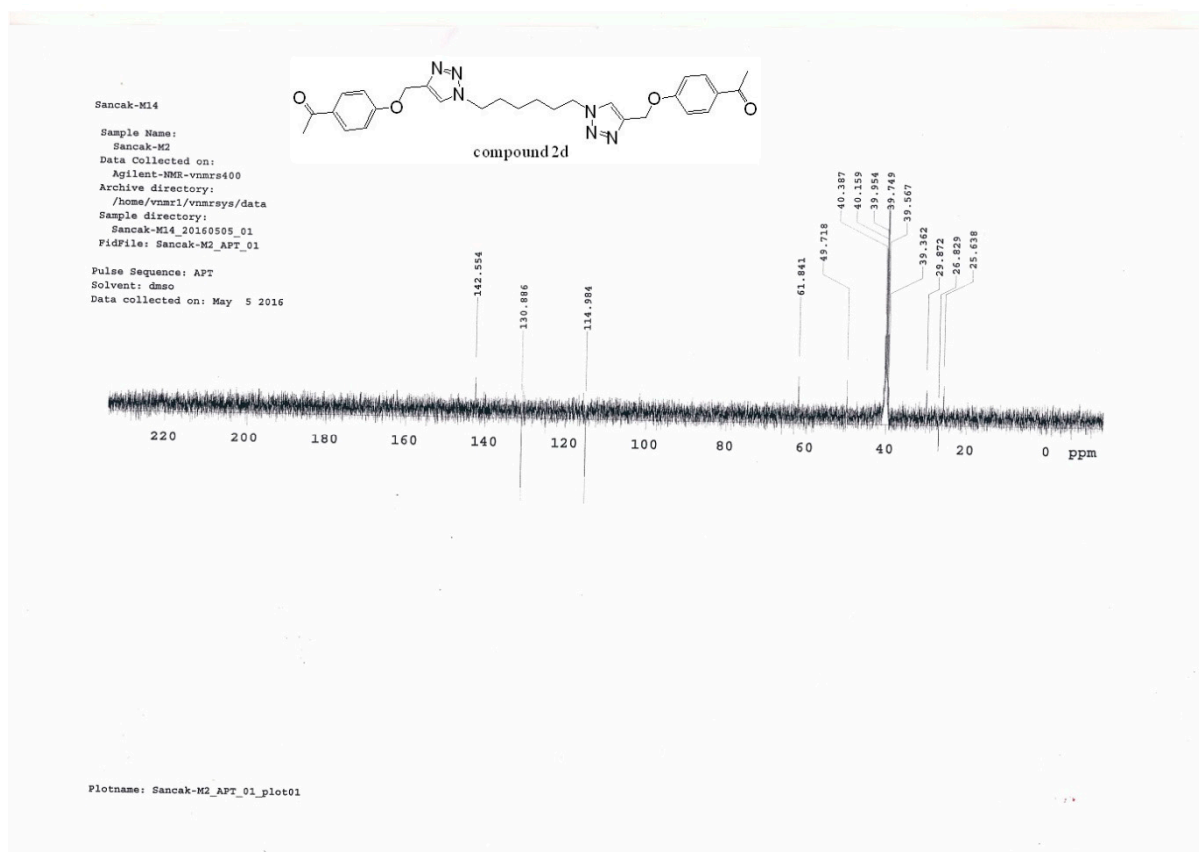
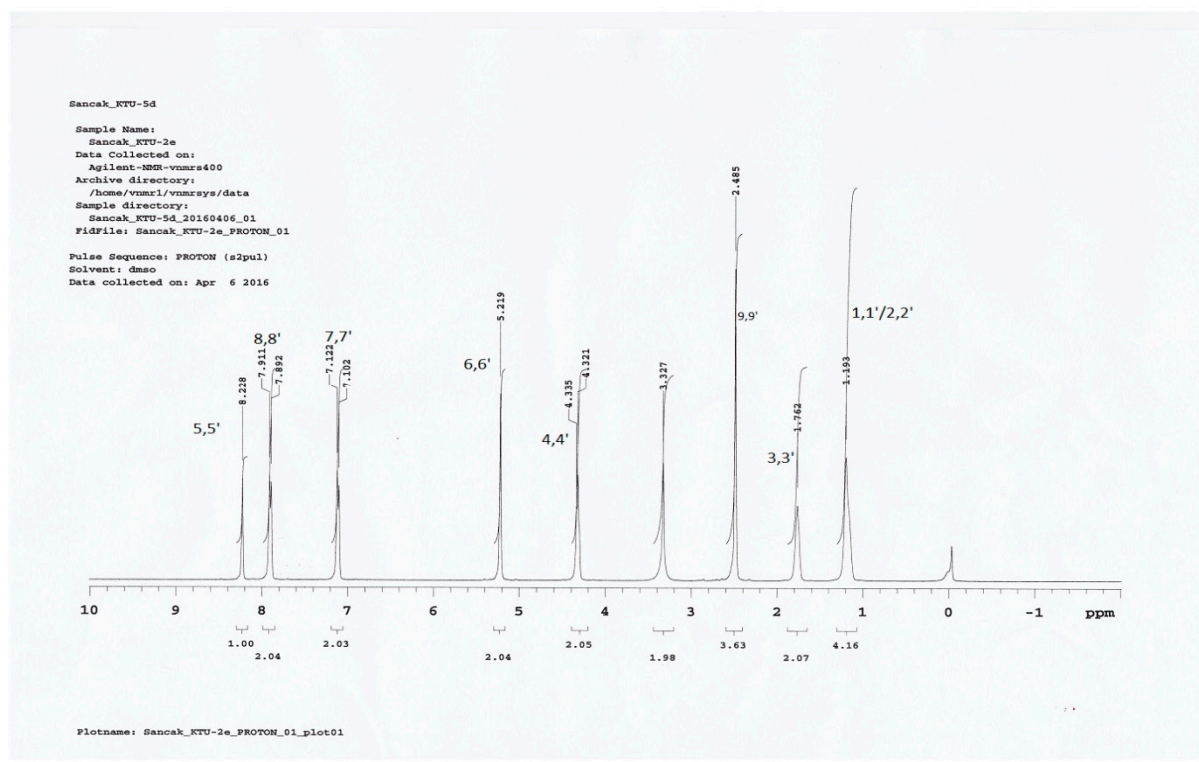


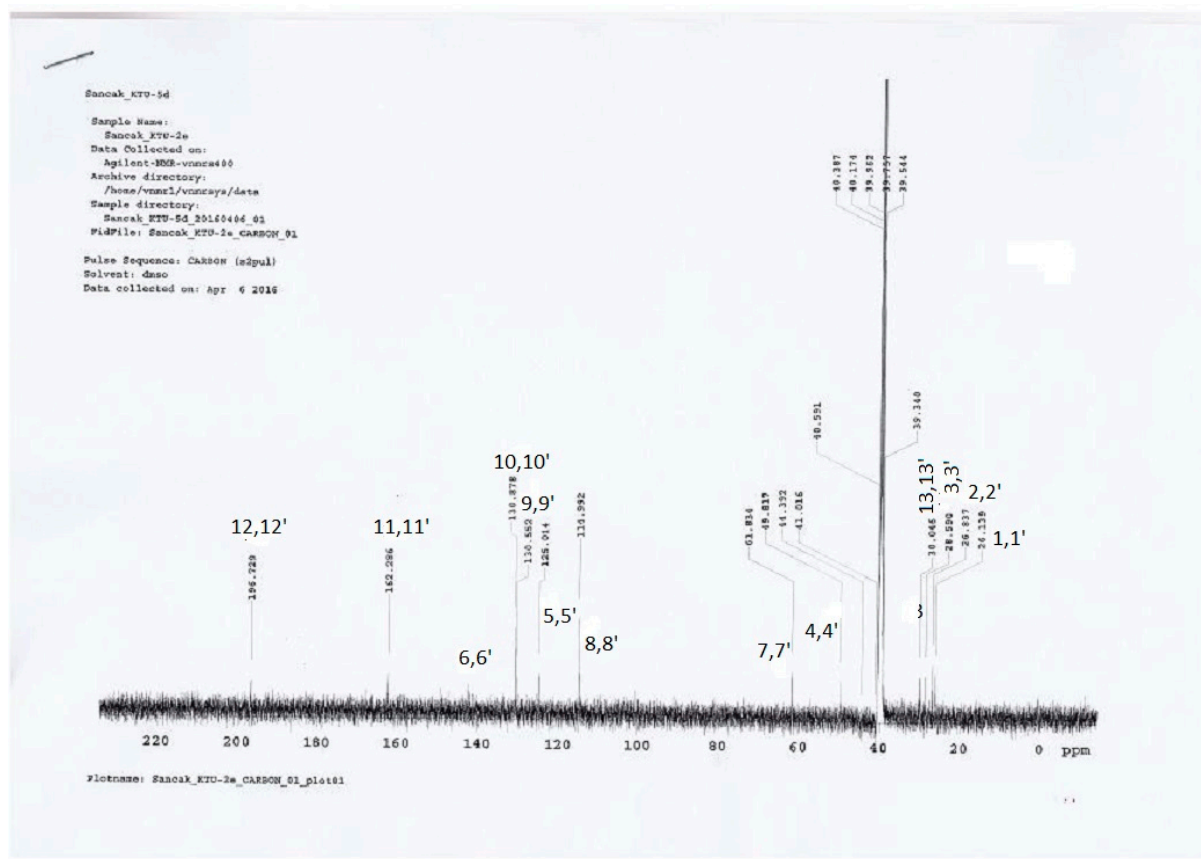
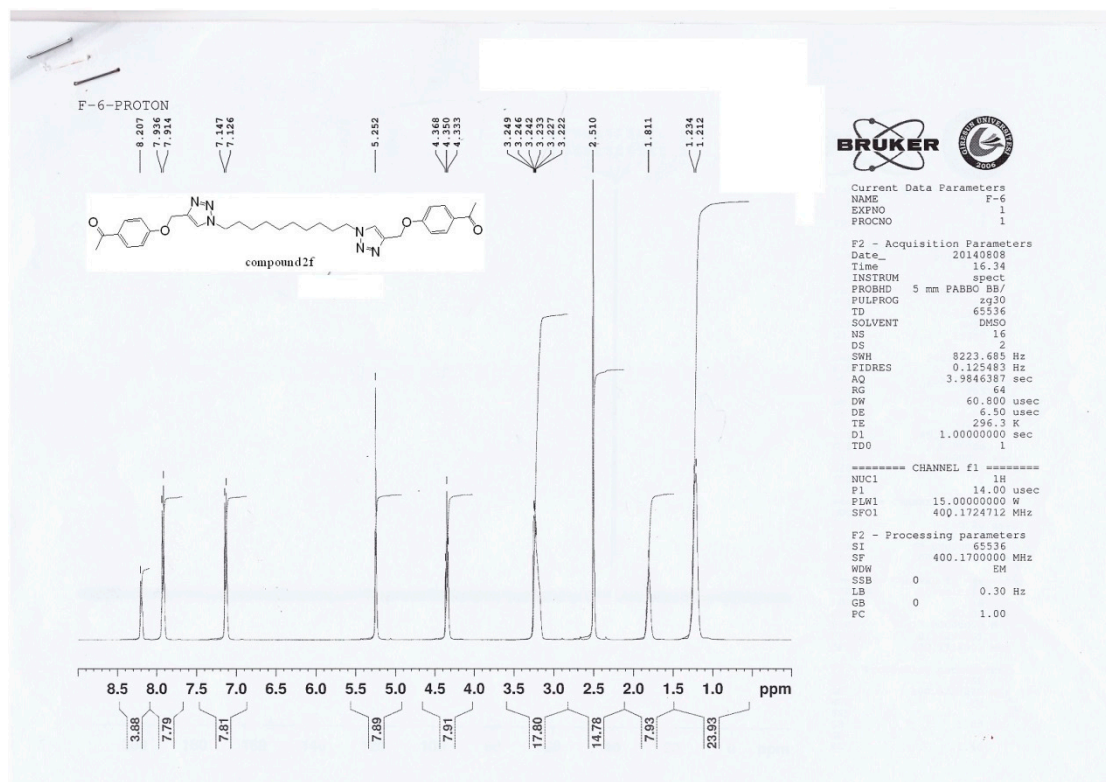
Figure S1. ¹H-NMR spectrum of compound 2a.

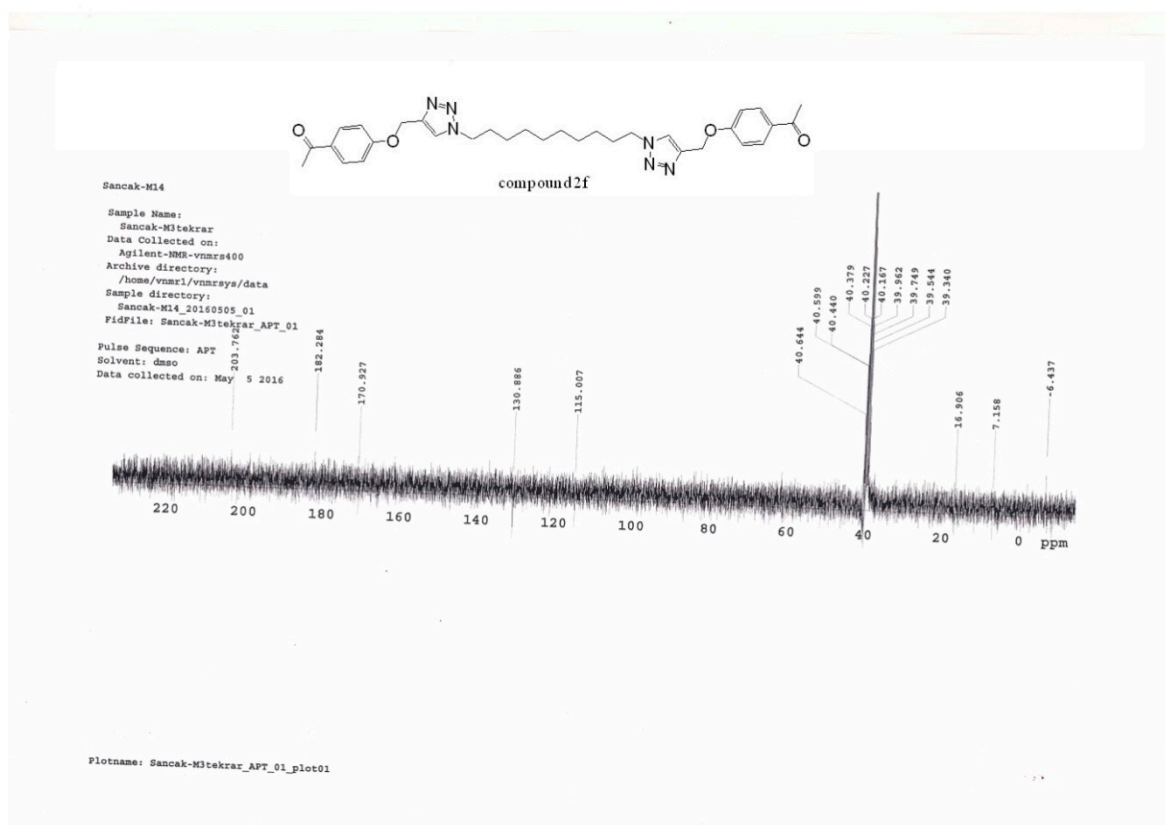
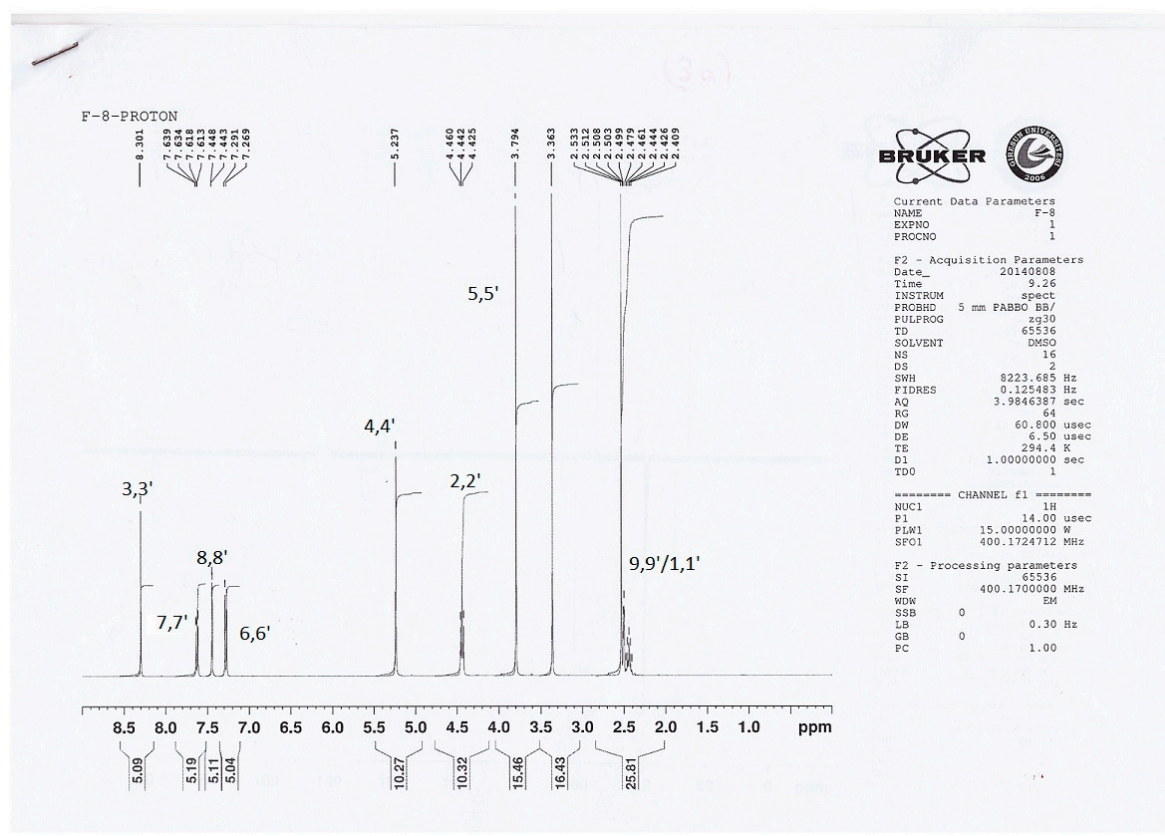
Figure S2. ¹³C-NMR spectrum of compound 2a.Figure S3. ¹H-NMR spectrum of compound 2b.

Figure S4. ^{13}C -NMR spectrum of compound 2b.Figure S5. ^1H -NMR spectrum of compound 2c.

Figure S6. ^{13}C -NMR spectrum of compound 2c.Figure S7. ^1H -NMR spectrum of compound 2d.

Figure S8. ^{13}C -NMR spectrum of compound 2d.Figure S9. ^1H -NMR spectrum of compound 2e.

Figure S10. ^{13}C -NMR spectrum of compound 2e.Figure S11. ^1H -NMR spectrum of compound 2f.

Figure S12. ^{13}C -NMR spectrum of compound 2f.Figure S13. ^1H -NMR spectrum of compound 3a.

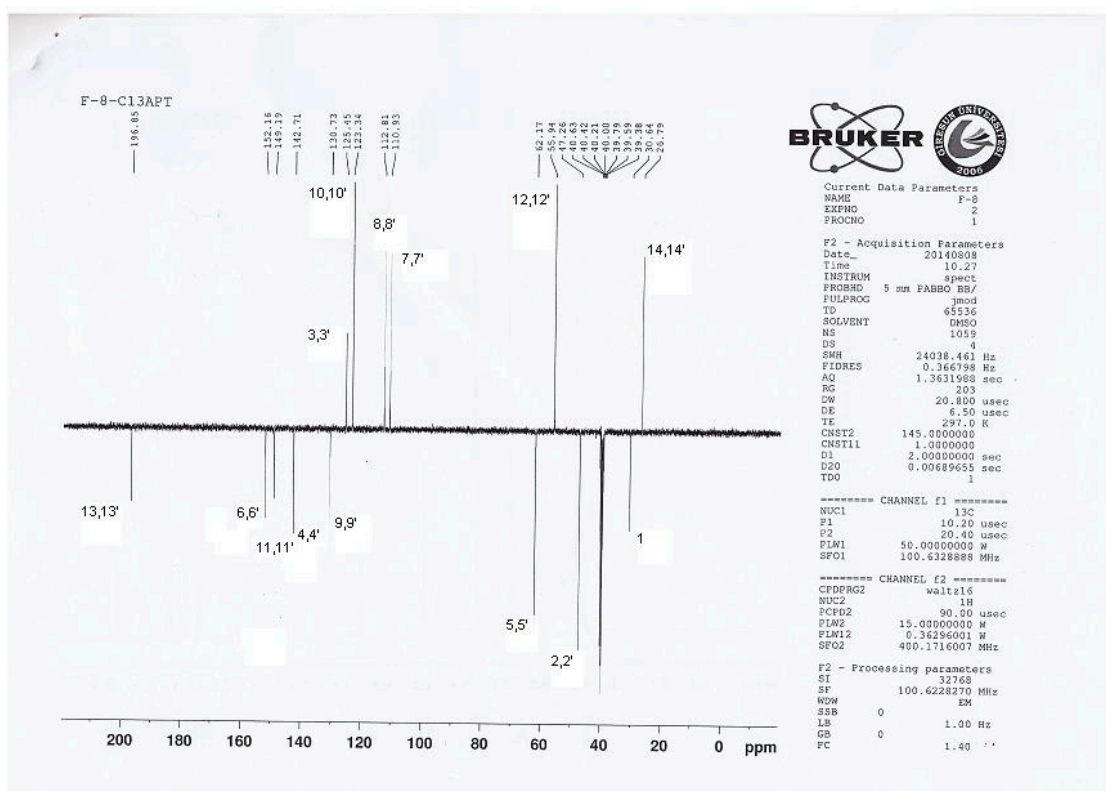


Figure S14. ¹³C-NMR spectrum of compound 3a.

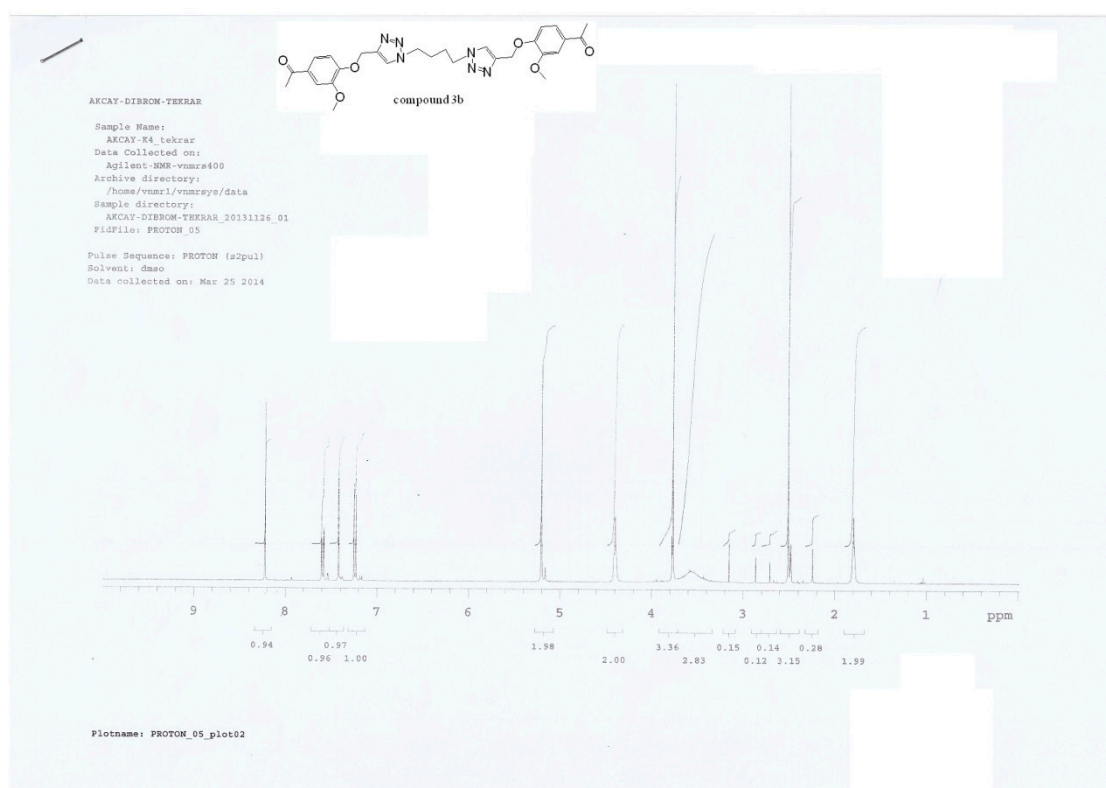
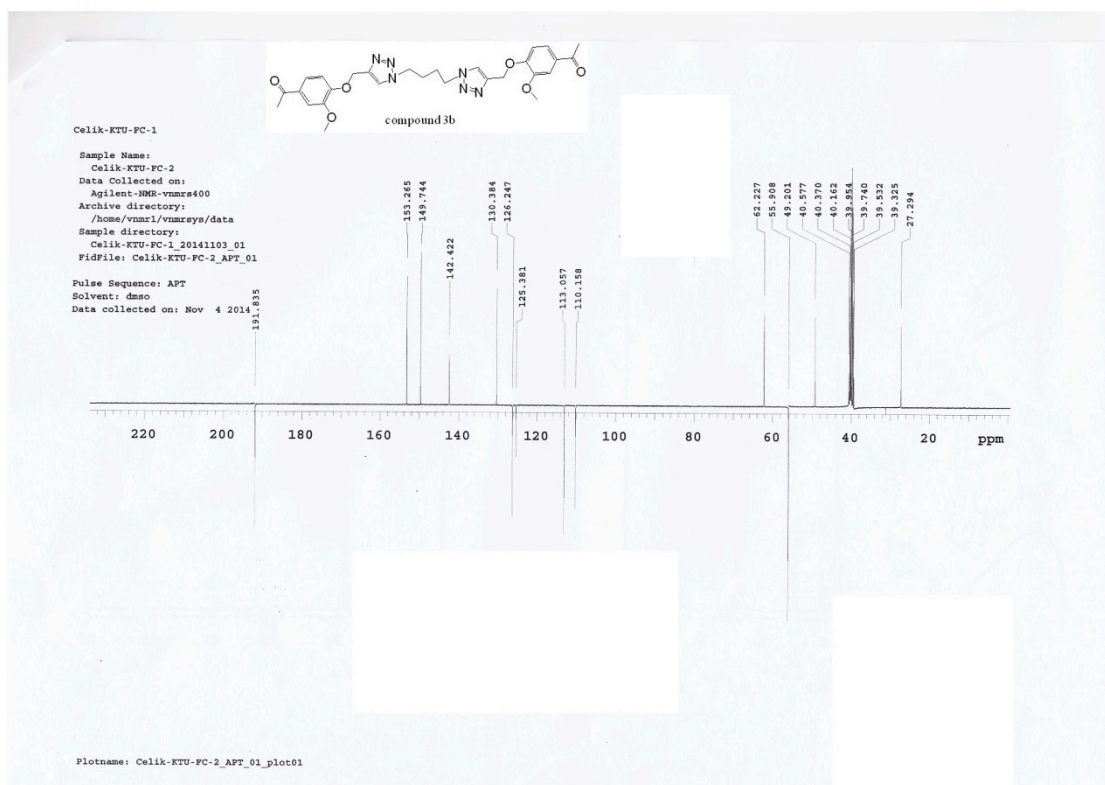
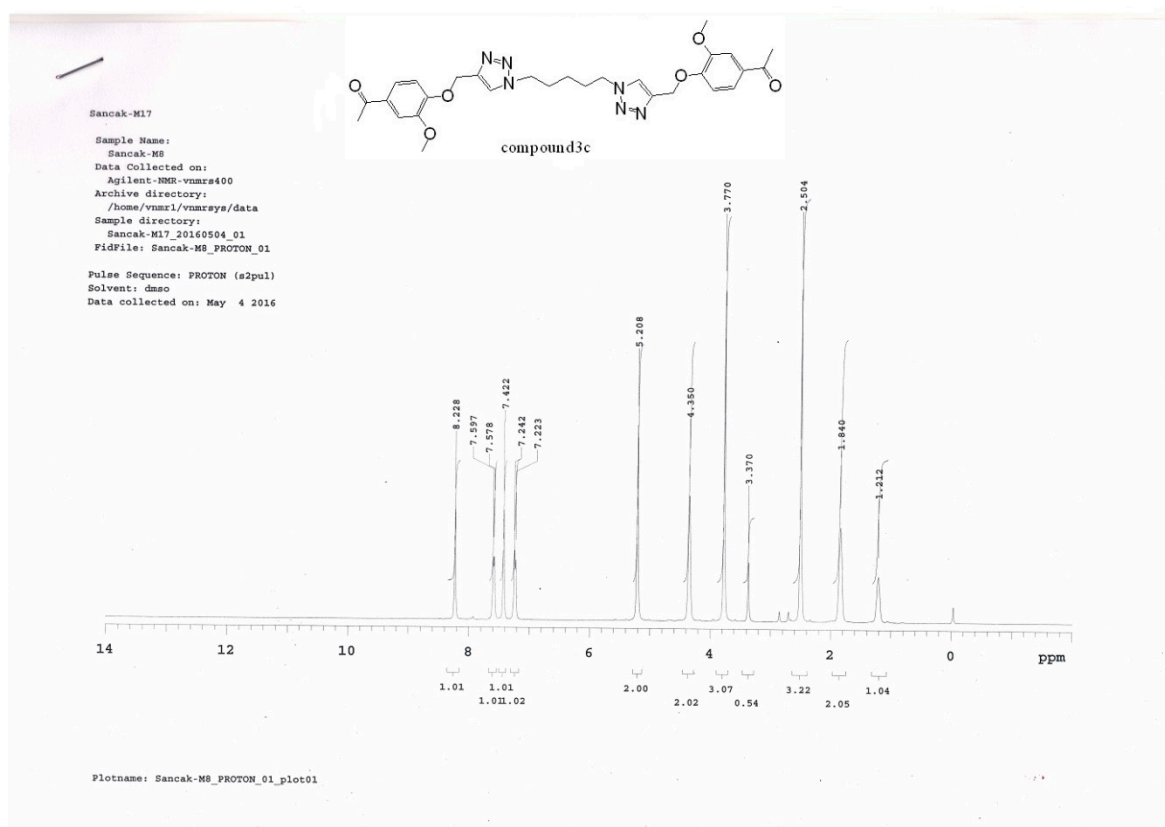
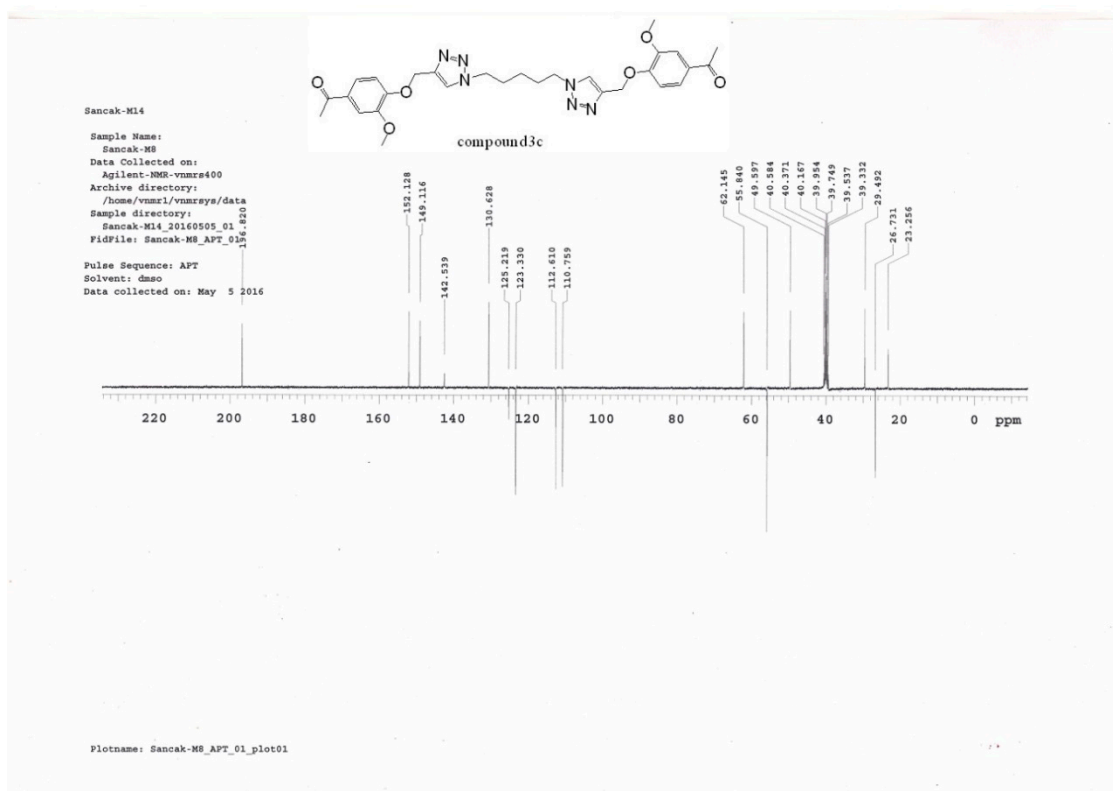
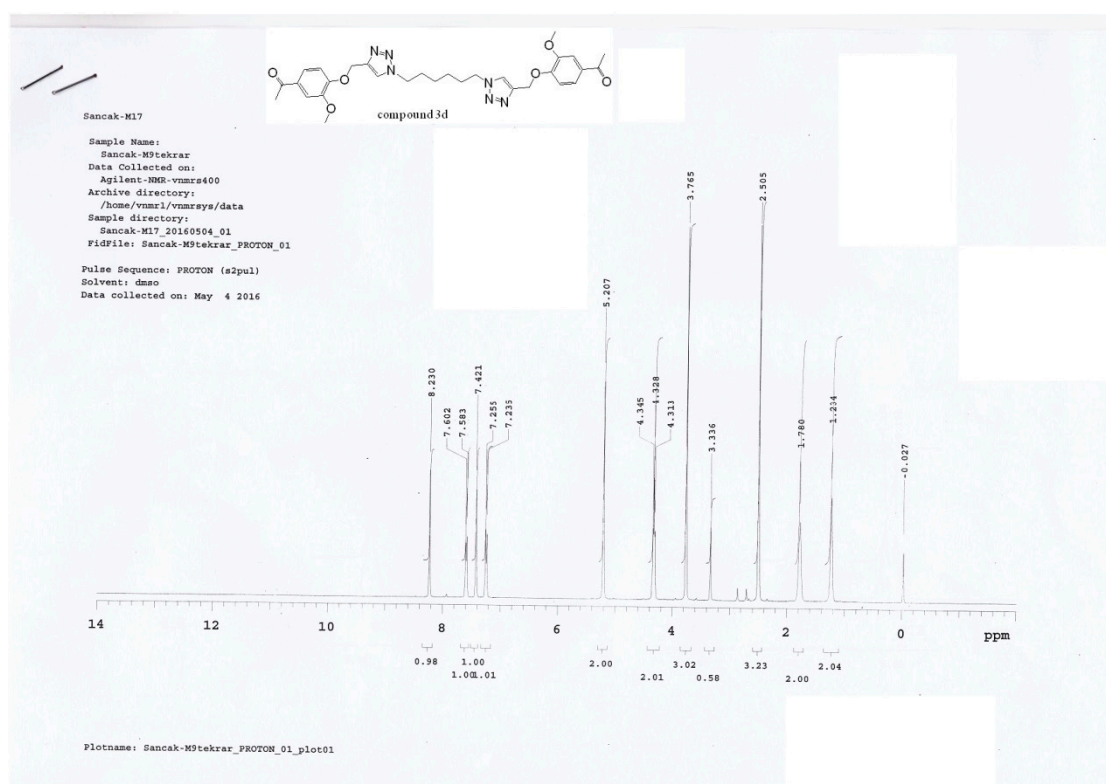
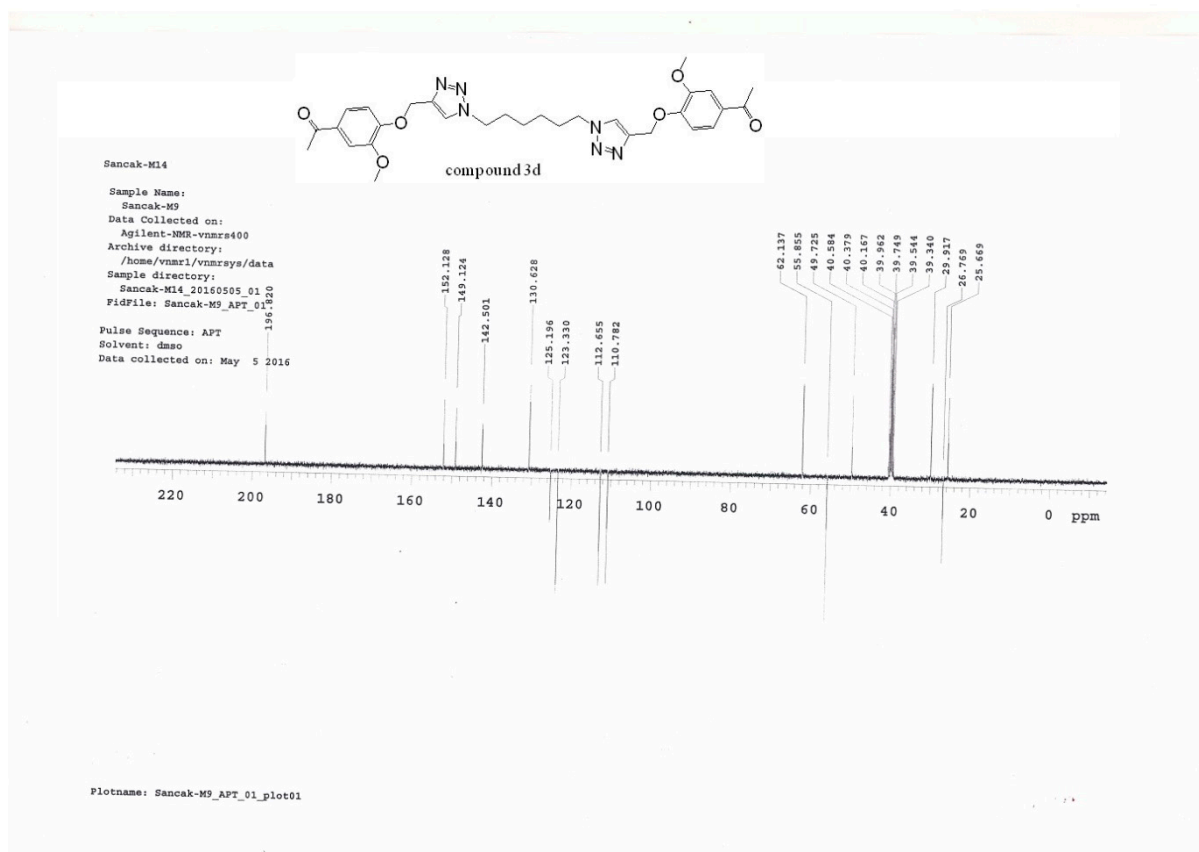
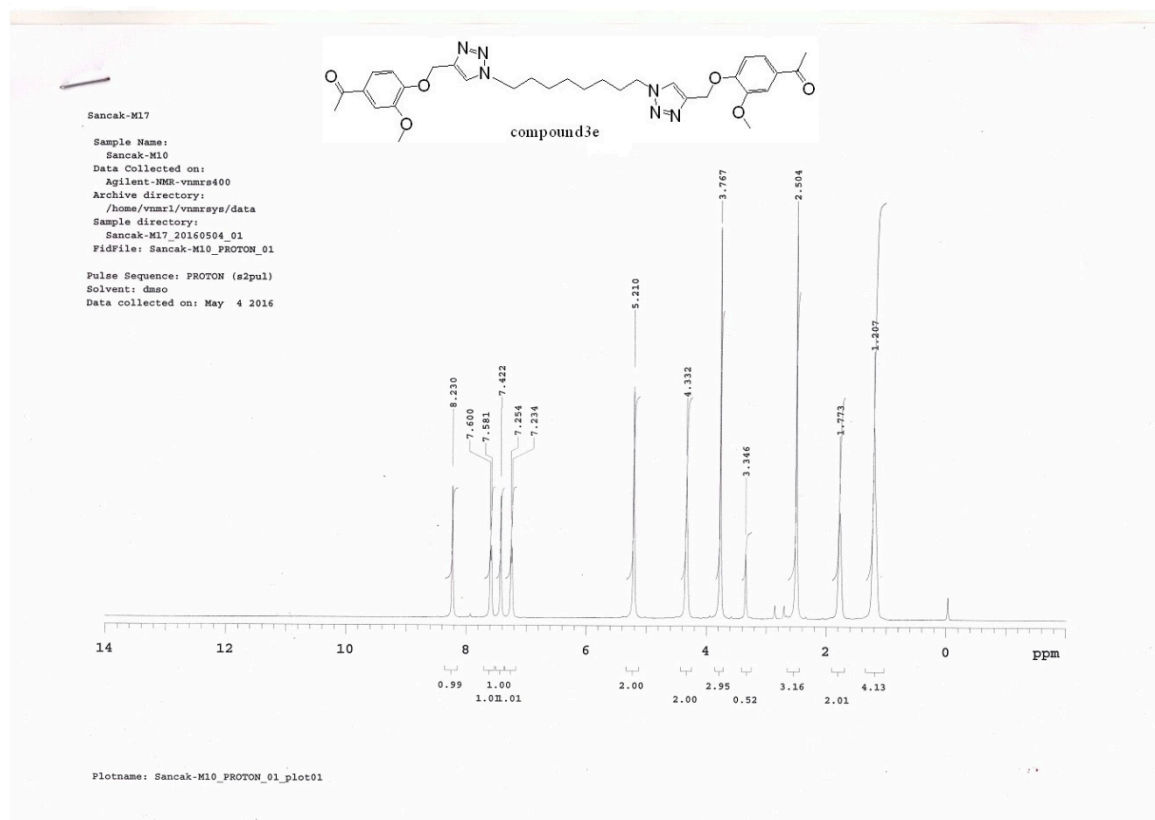
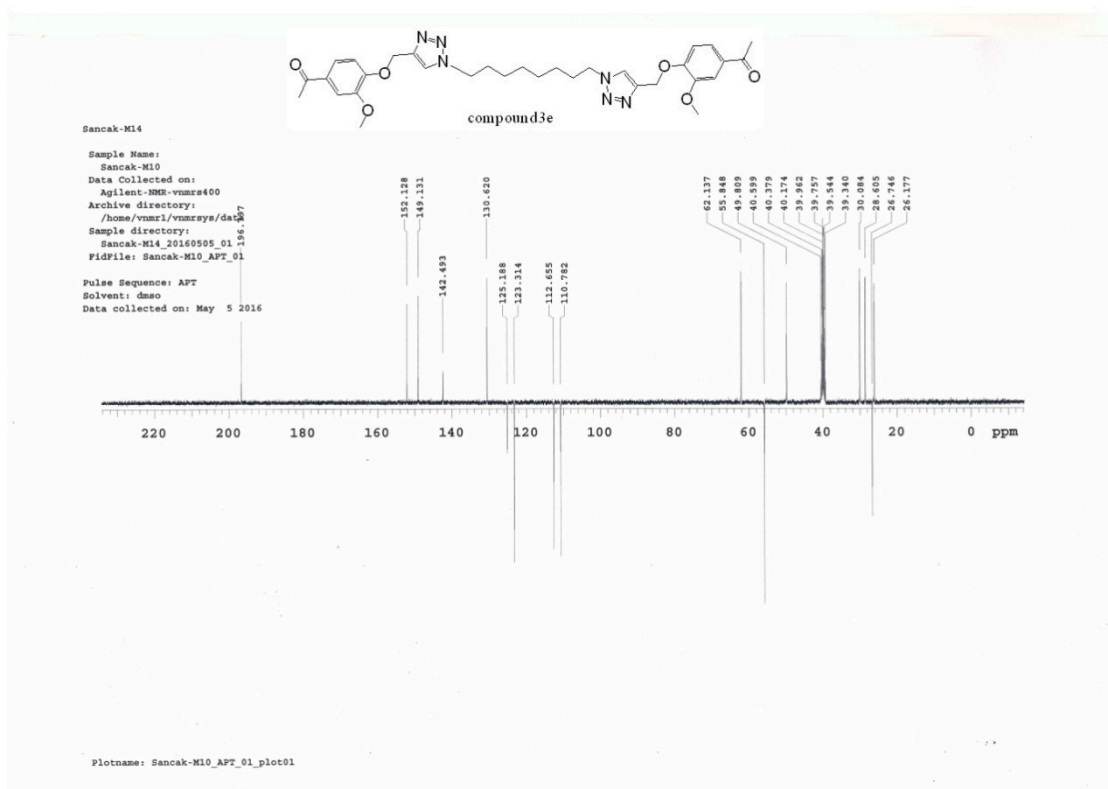
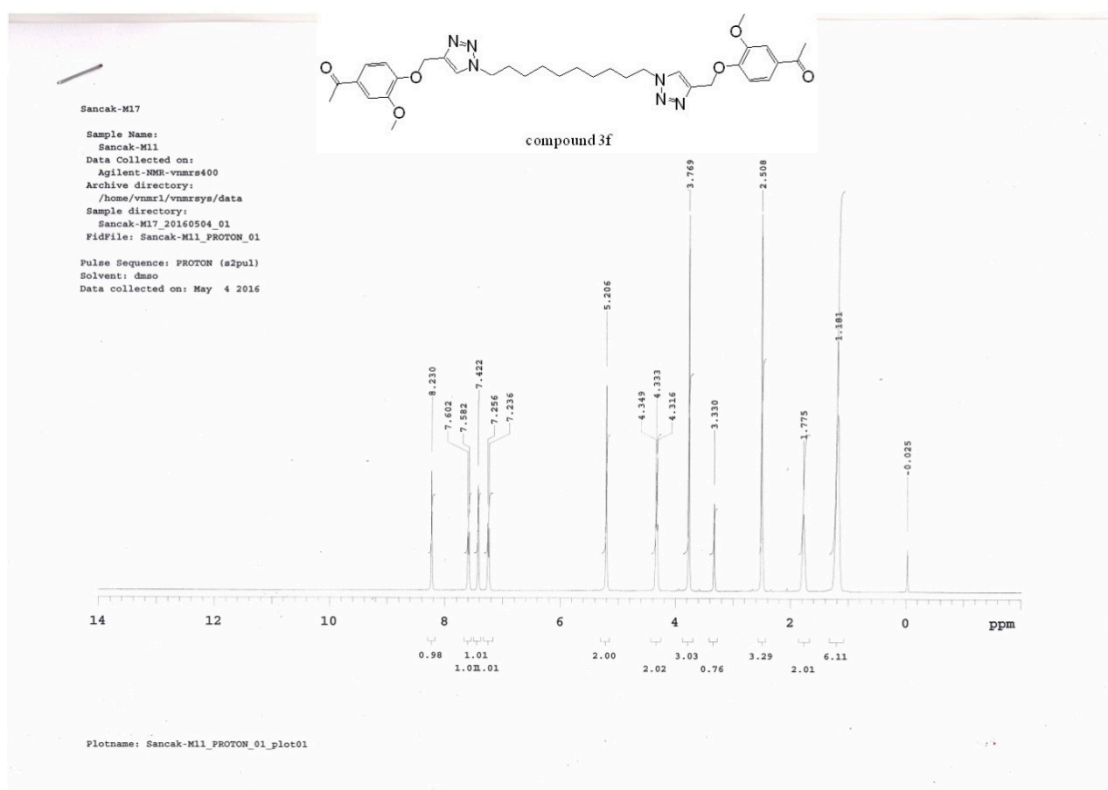


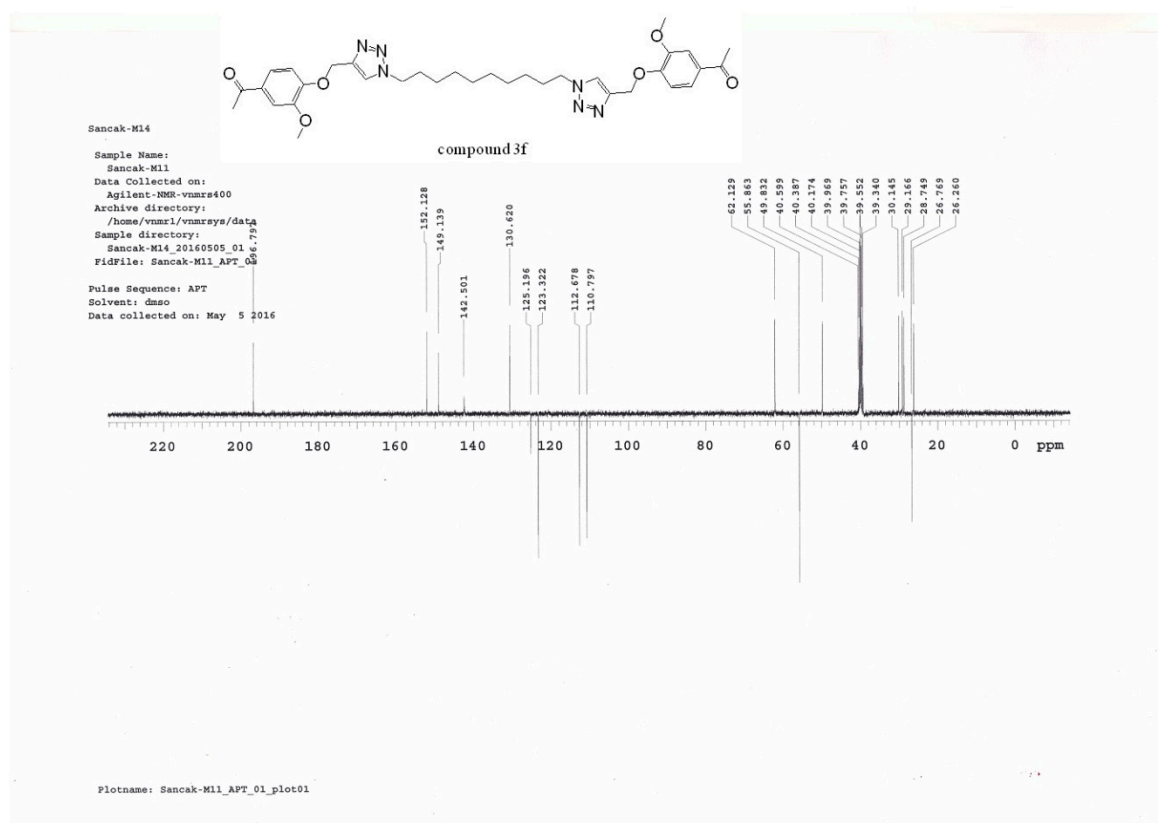
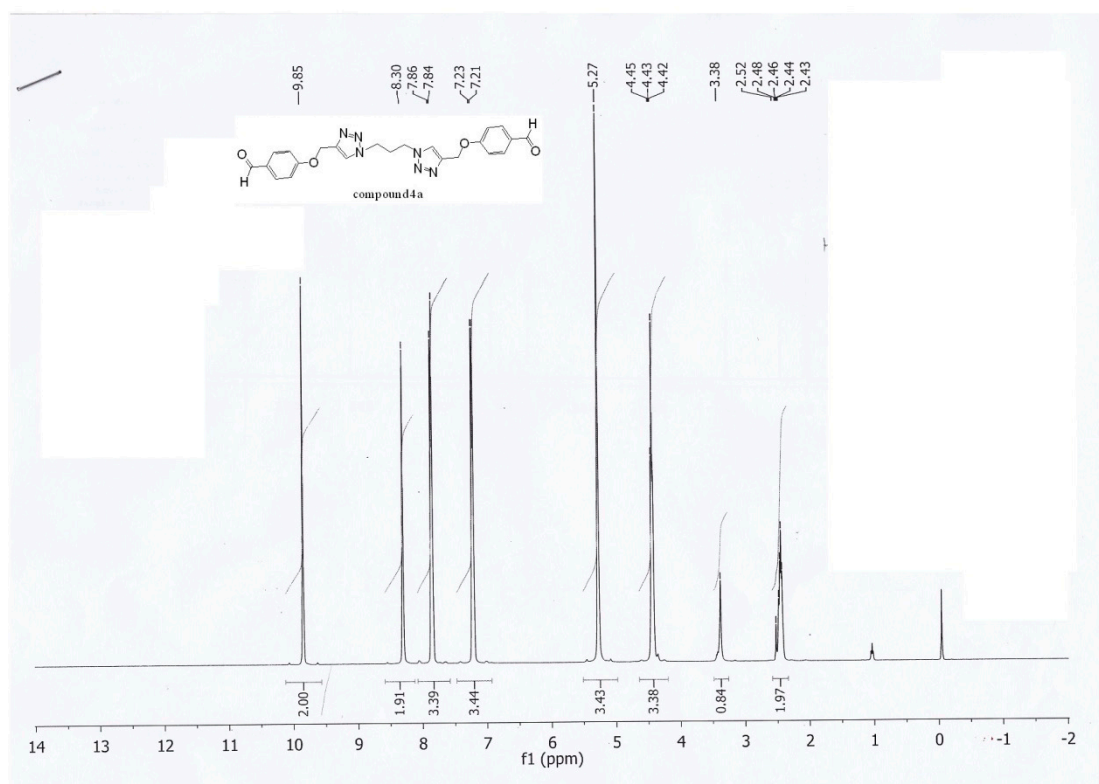
Figure S15. ¹H-NMR spectrum of compound 3b.

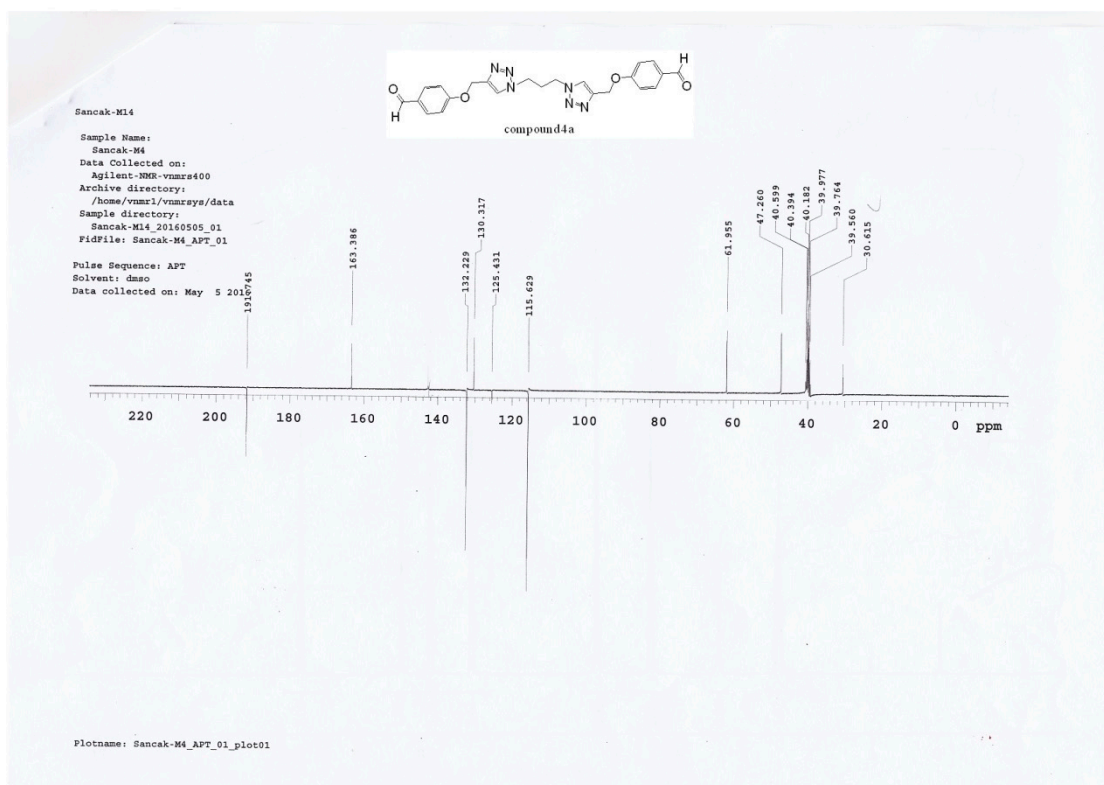
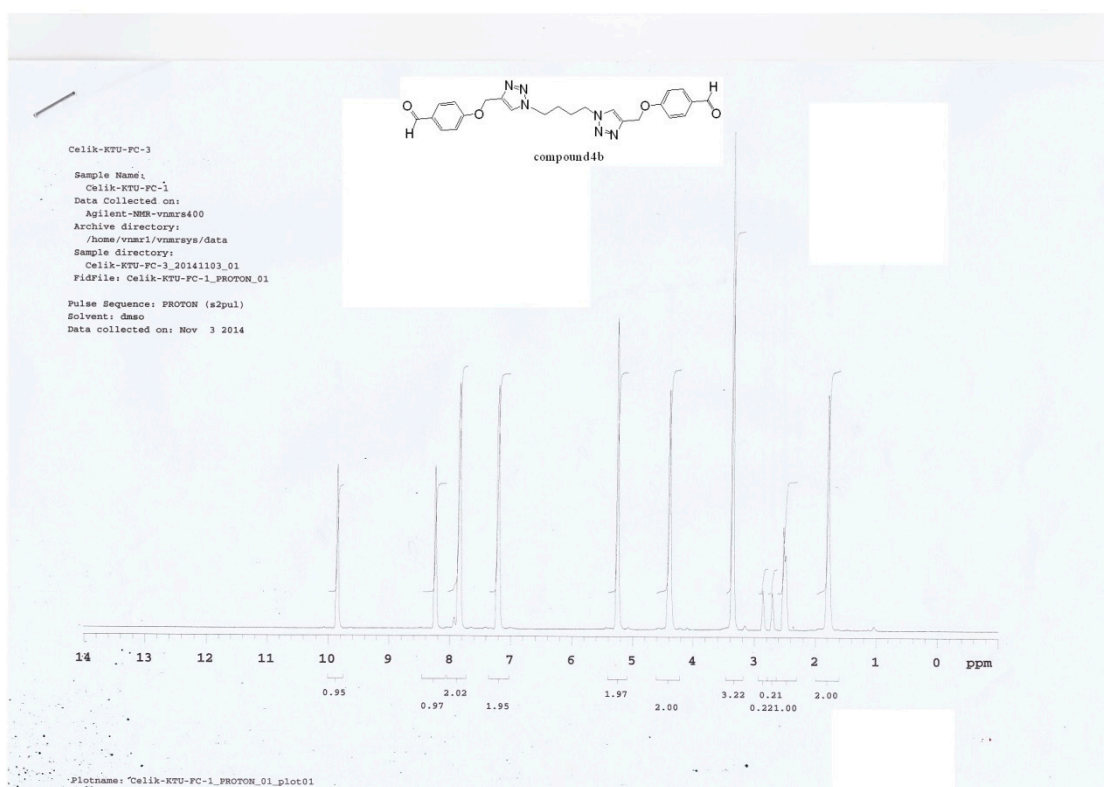
Figure S16. ^{13}C -NMR spectrum of compound 3b.Figure S17. ^1H -NMR spectrum of compound 3c.

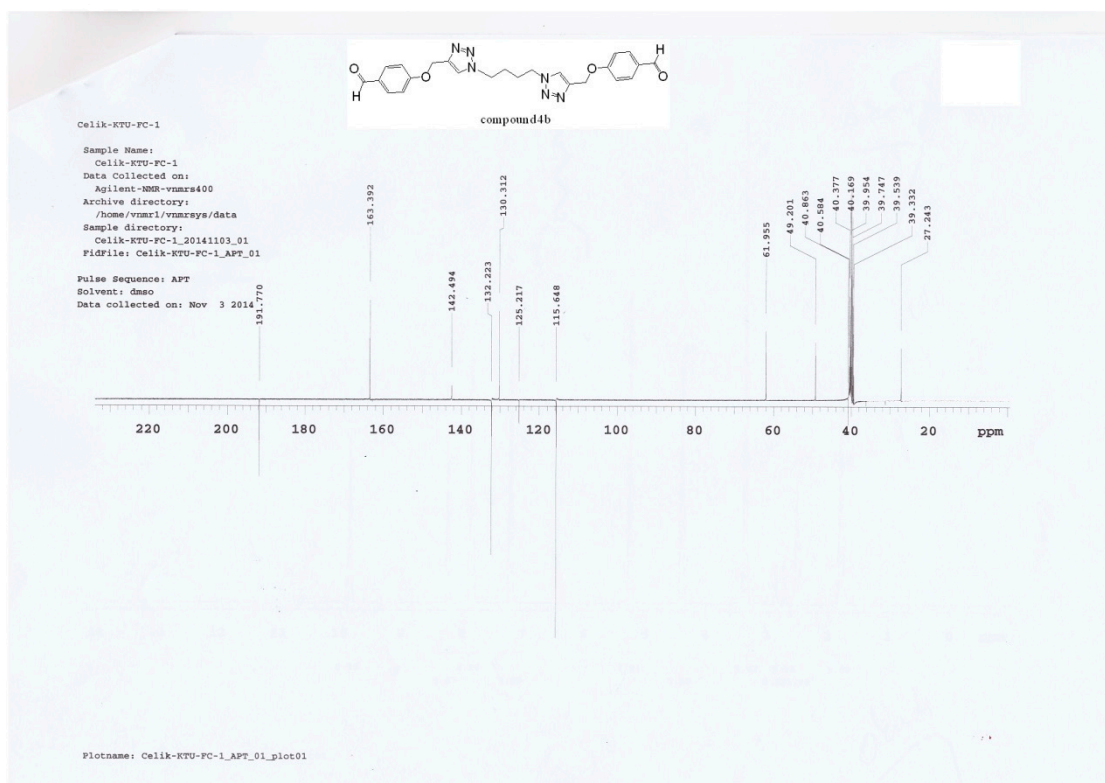
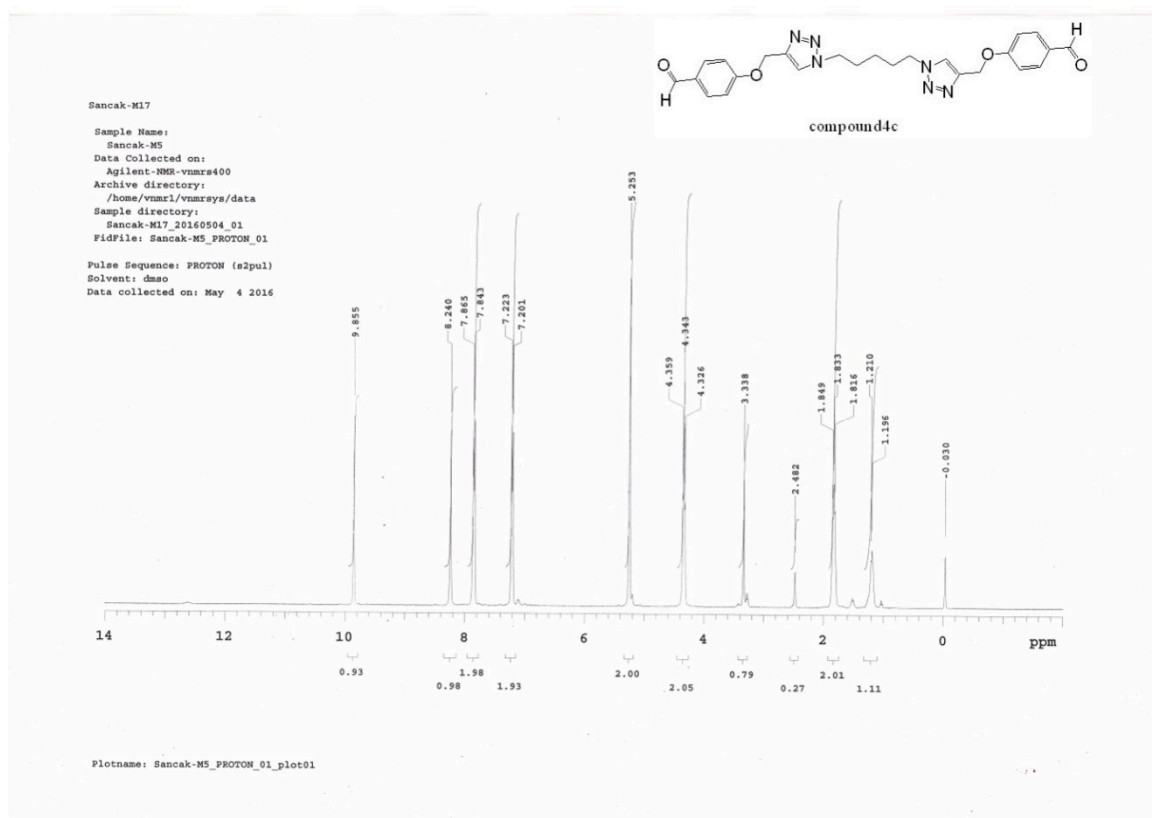
Figure S18. ^{13}C -NMR spectrum of compound 3c.Figure S19. ^1H -NMR spectrum of compound 3d.

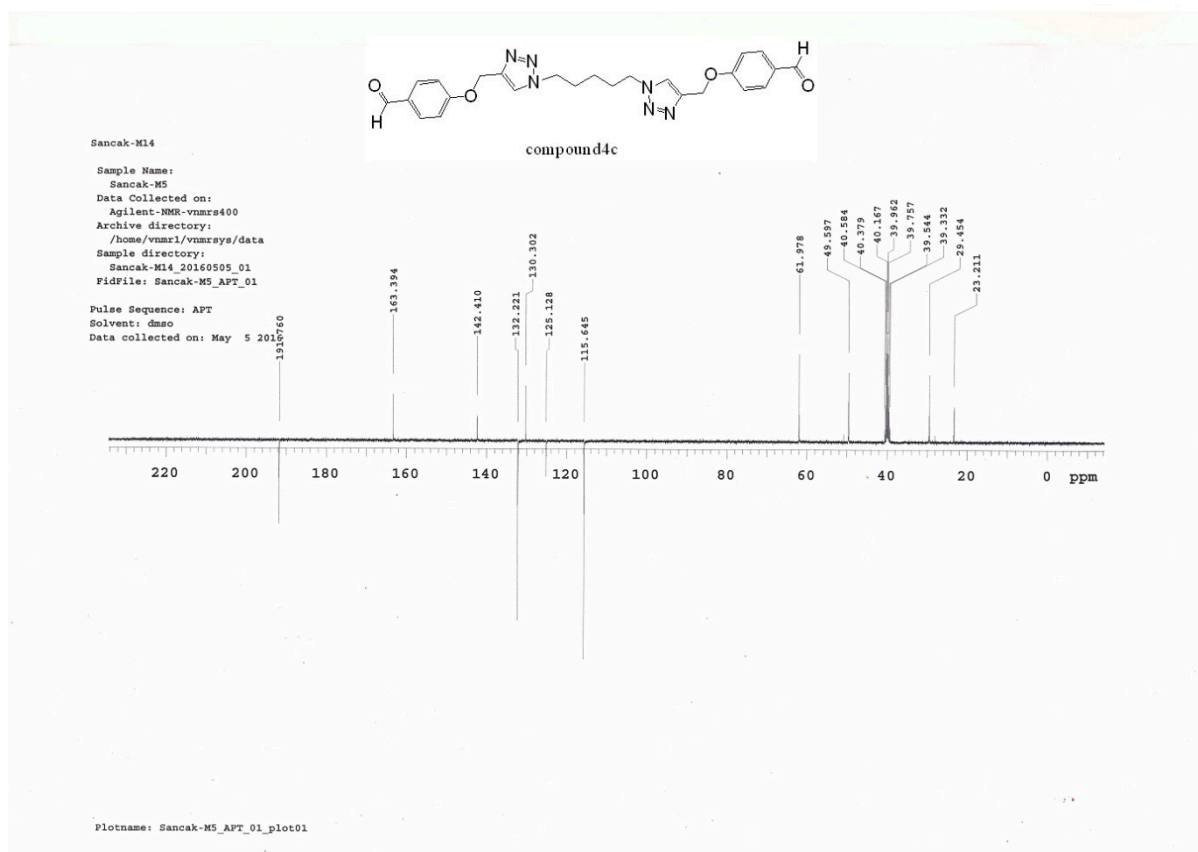
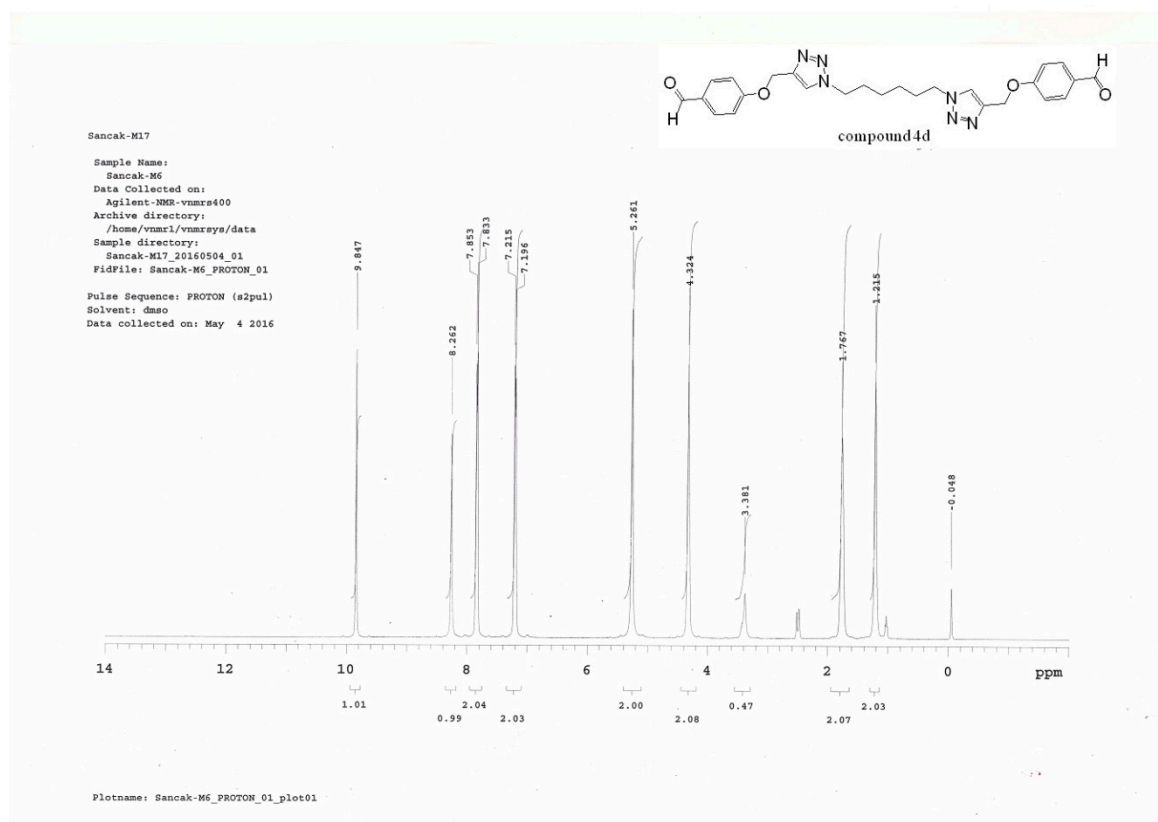
Figure S20. ^{13}C -NMR spectrum of compound 3d.Figure S21. ^1H -NMR spectrum of compound 3e.

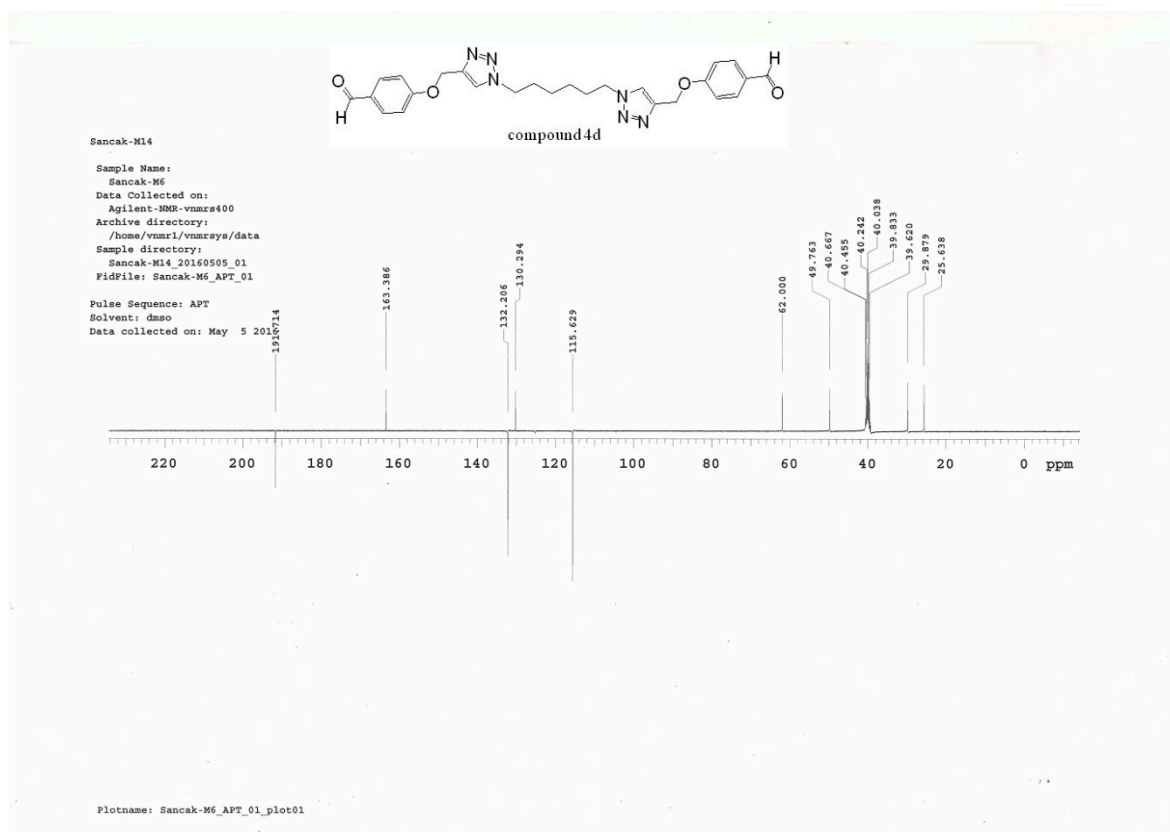
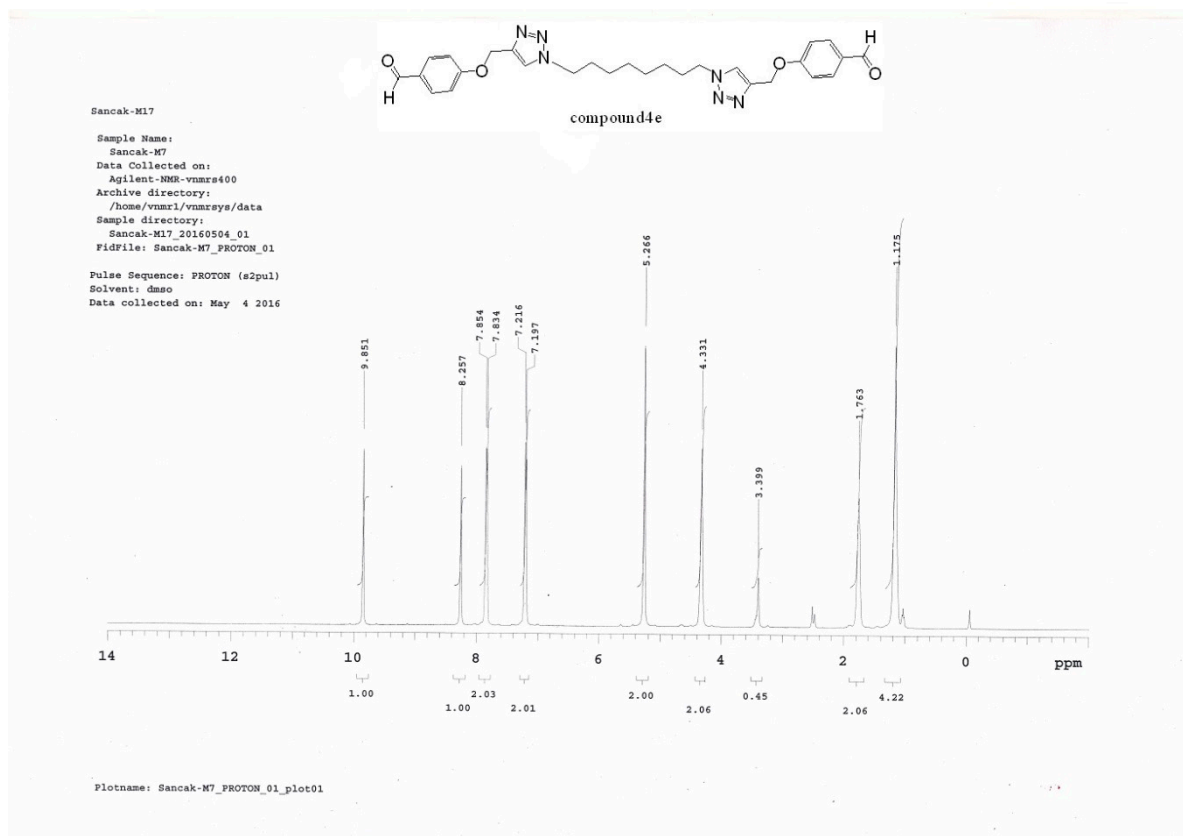
Figure S22. ¹³C-NMR spectrum of compound 3e.Figure S23. ¹H-NMR spectrum of compound 3f.

Figure S24. ^{13}C -NMR spectrum of compound 3f.Figure S25. ^1H -NMR spectrum of compound 4a.

Figure S26. ^{13}C -NMR spectrum of compound 4a.Figure S27. ^1H -NMR spectrum of compound 4b.

Figure S28. ^{13}C -NMR spectrum of compound 4b.Figure S29. ^1H -NMR spectrum of compound 4c.

Figure S30. ^{13}C -NMR spectrum of compound 4c.Figure S31. ^1H -NMR spectrum of compound 4d.

Figure S32. ¹³C-NMR spectrum of compound 4d.Figure S33. ¹H-NMR spectrum of compound 4e.

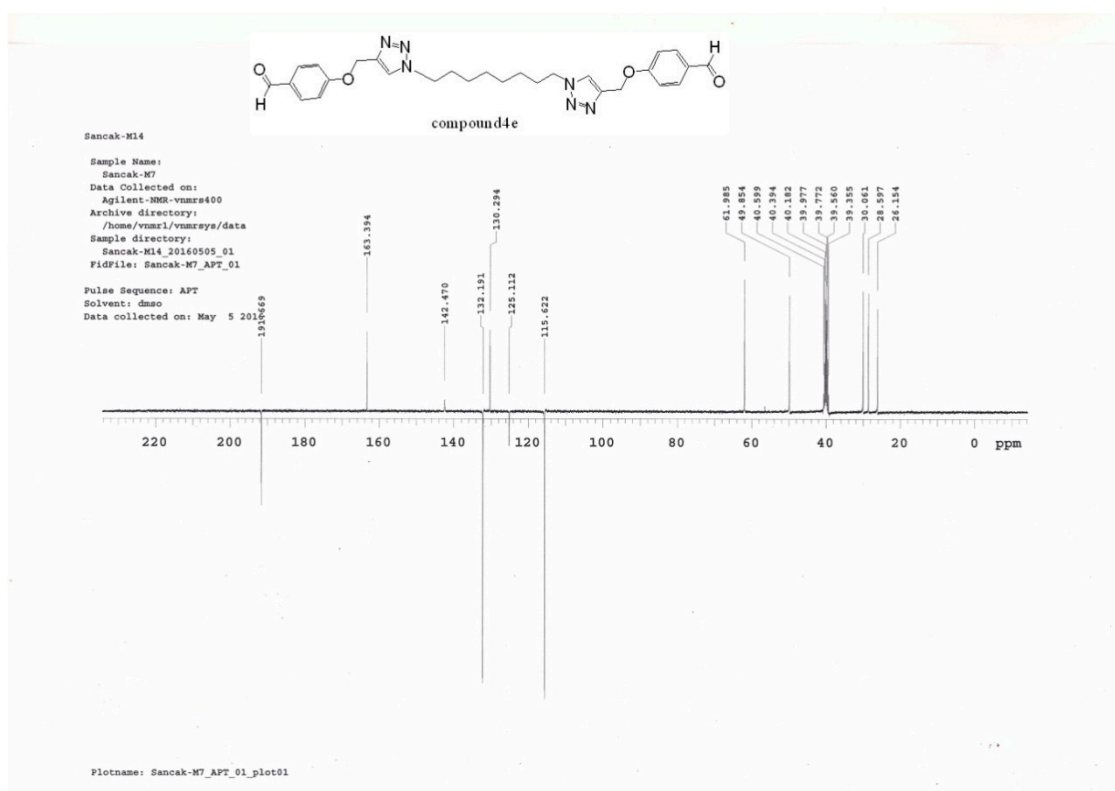


Figure S34. ^{13}C -NMR spectrum of compound 4e.

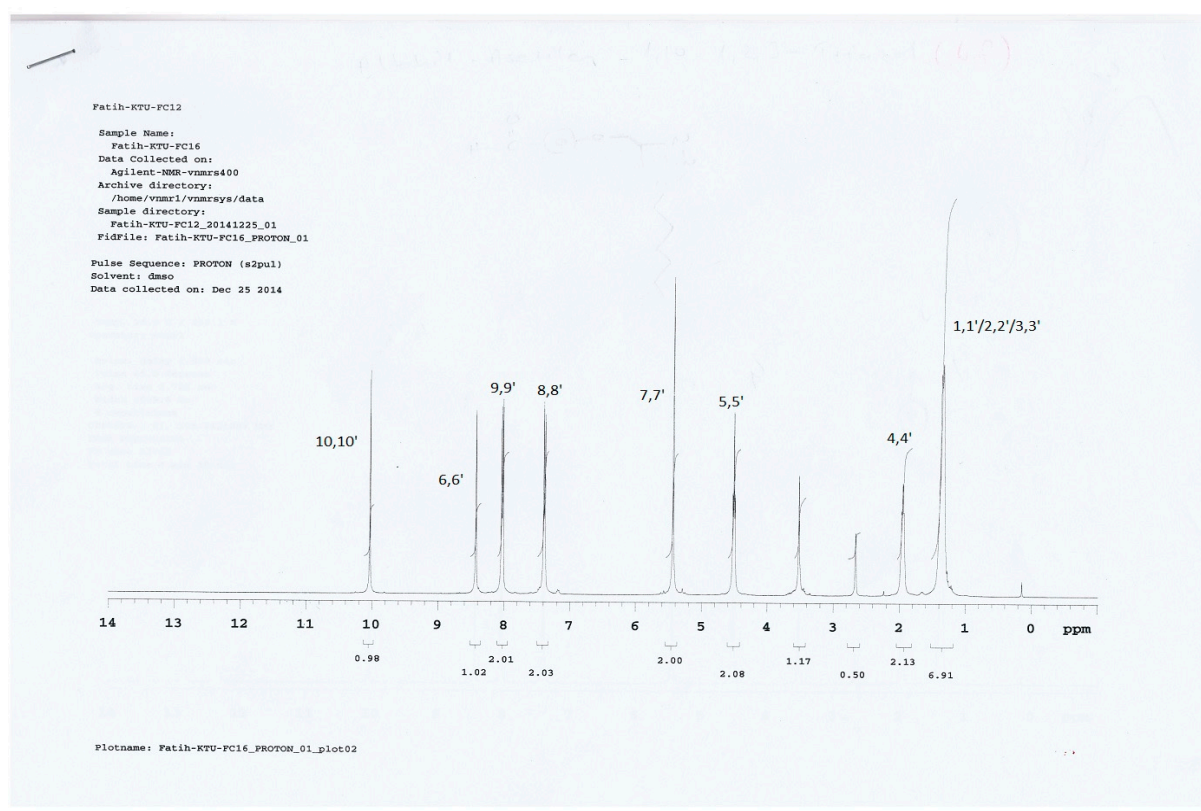
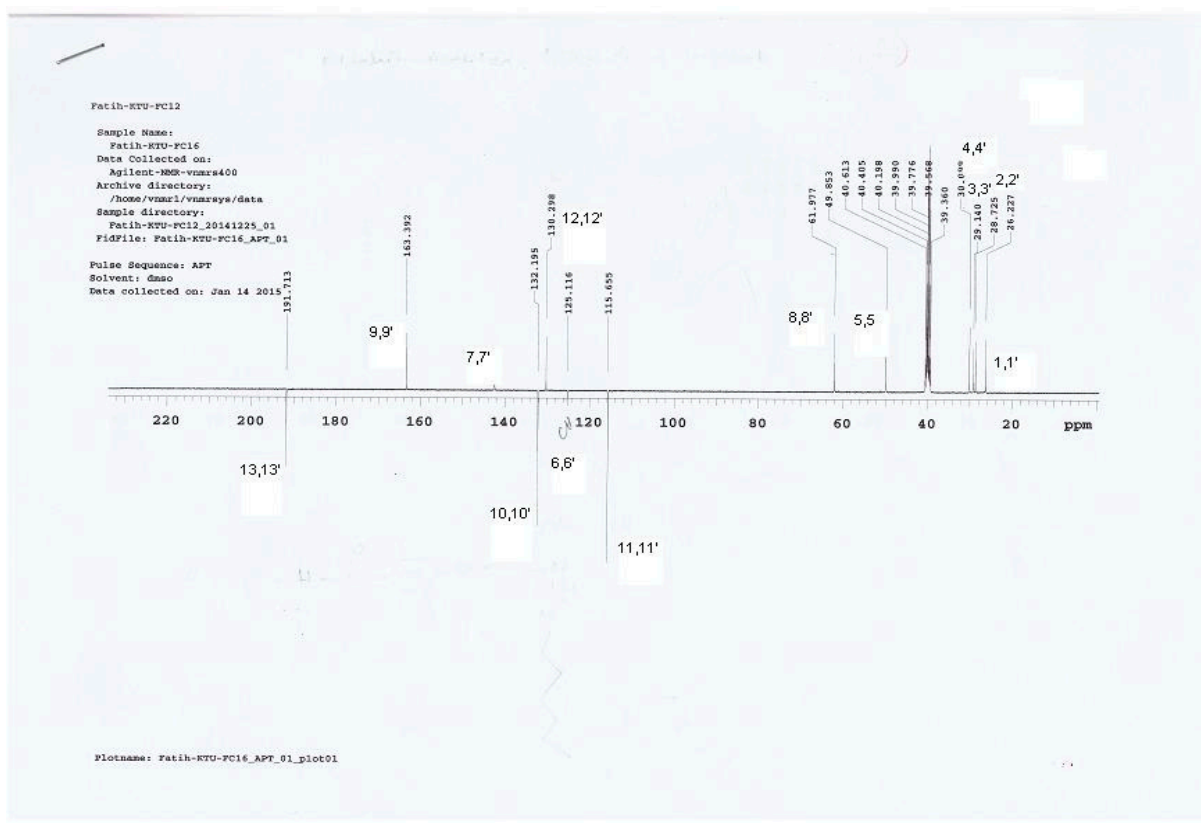
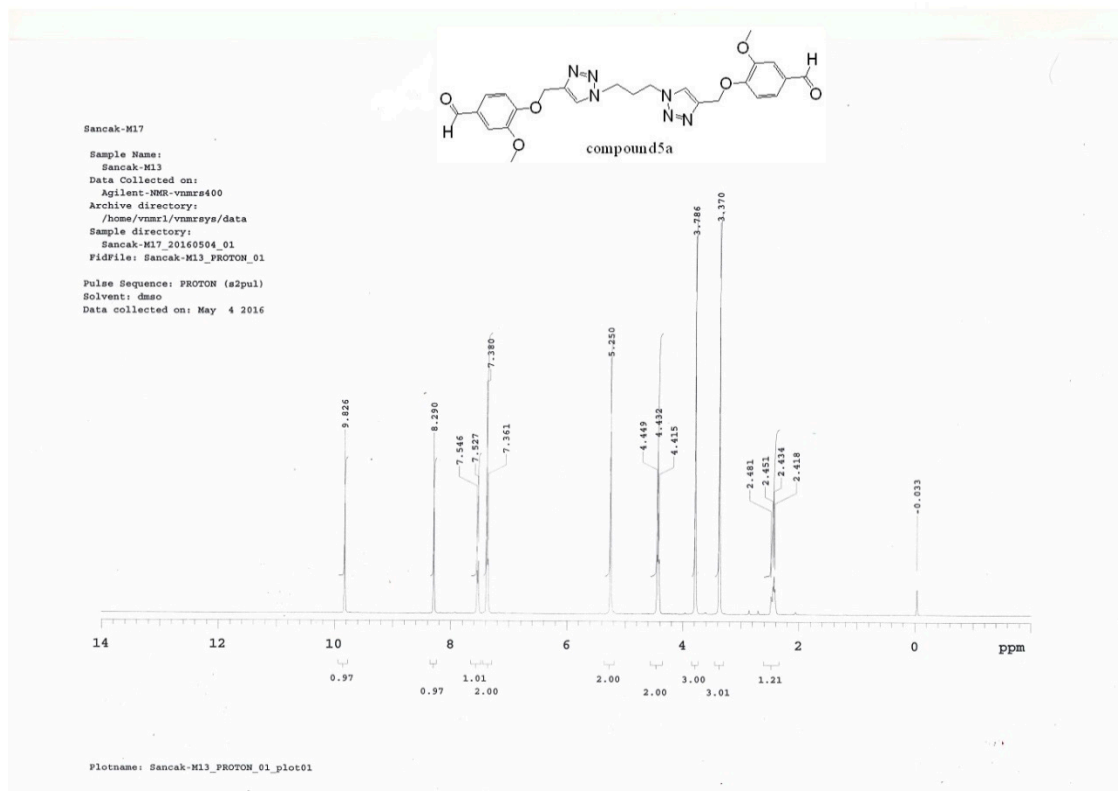
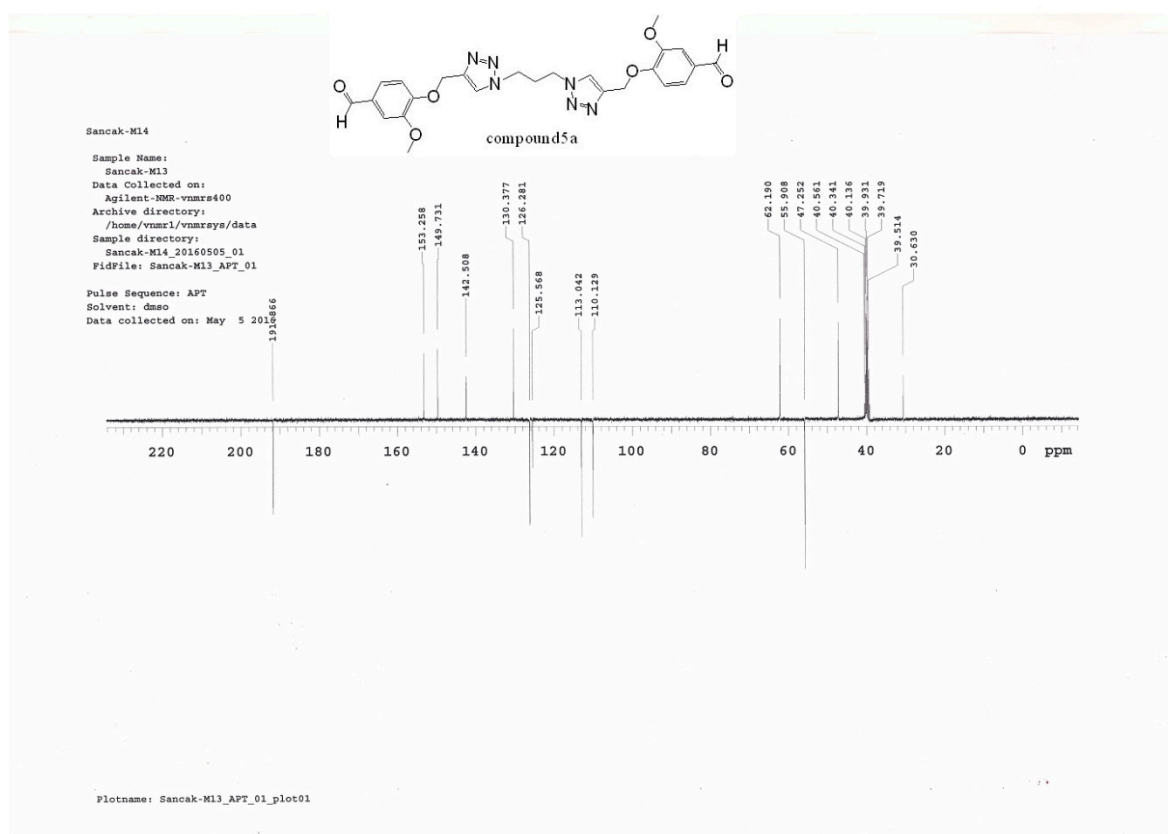
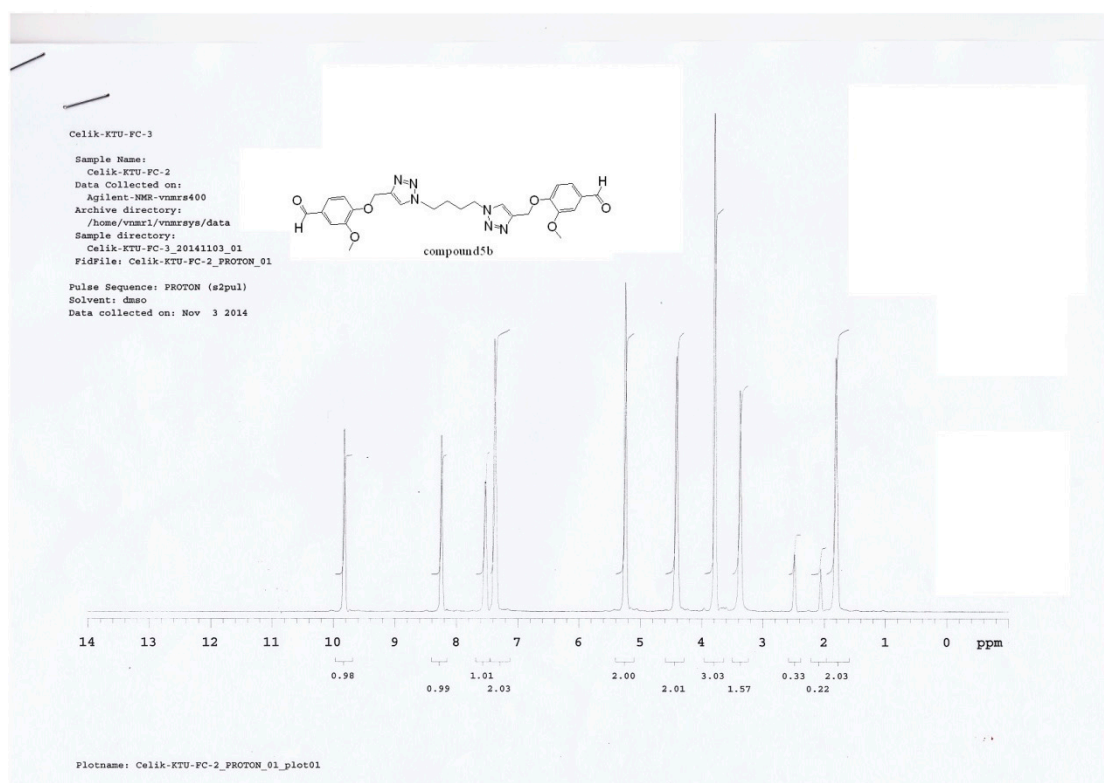
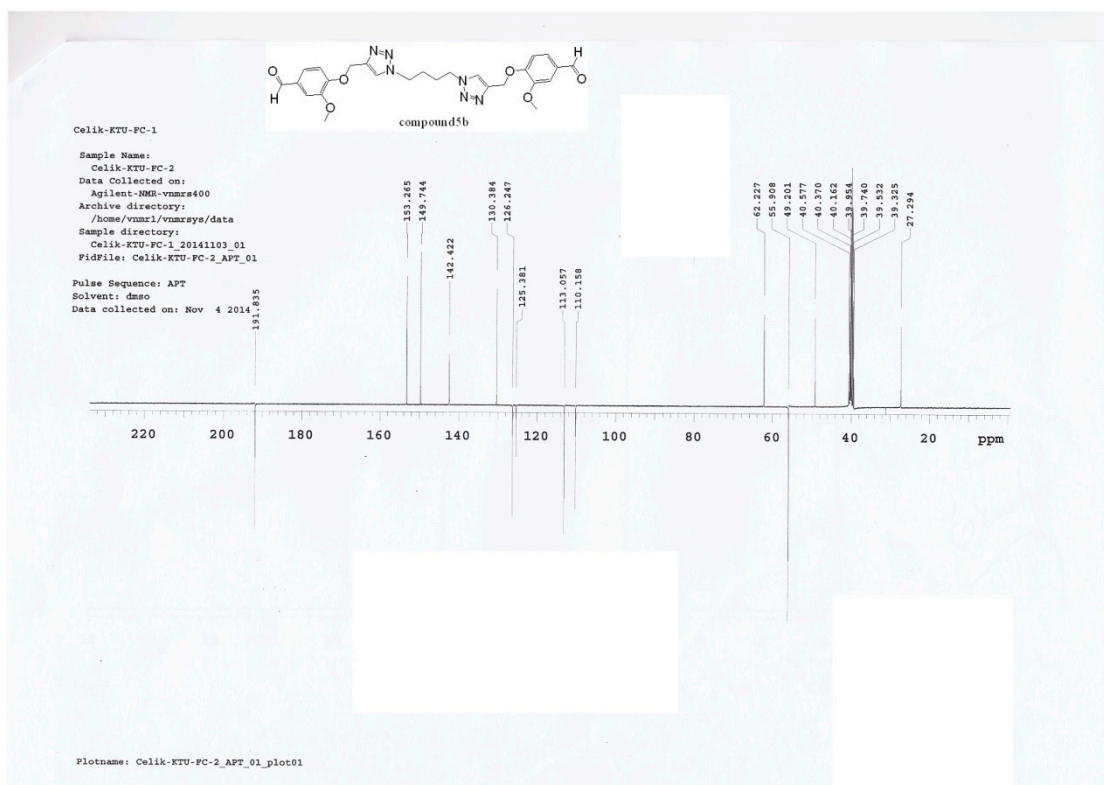
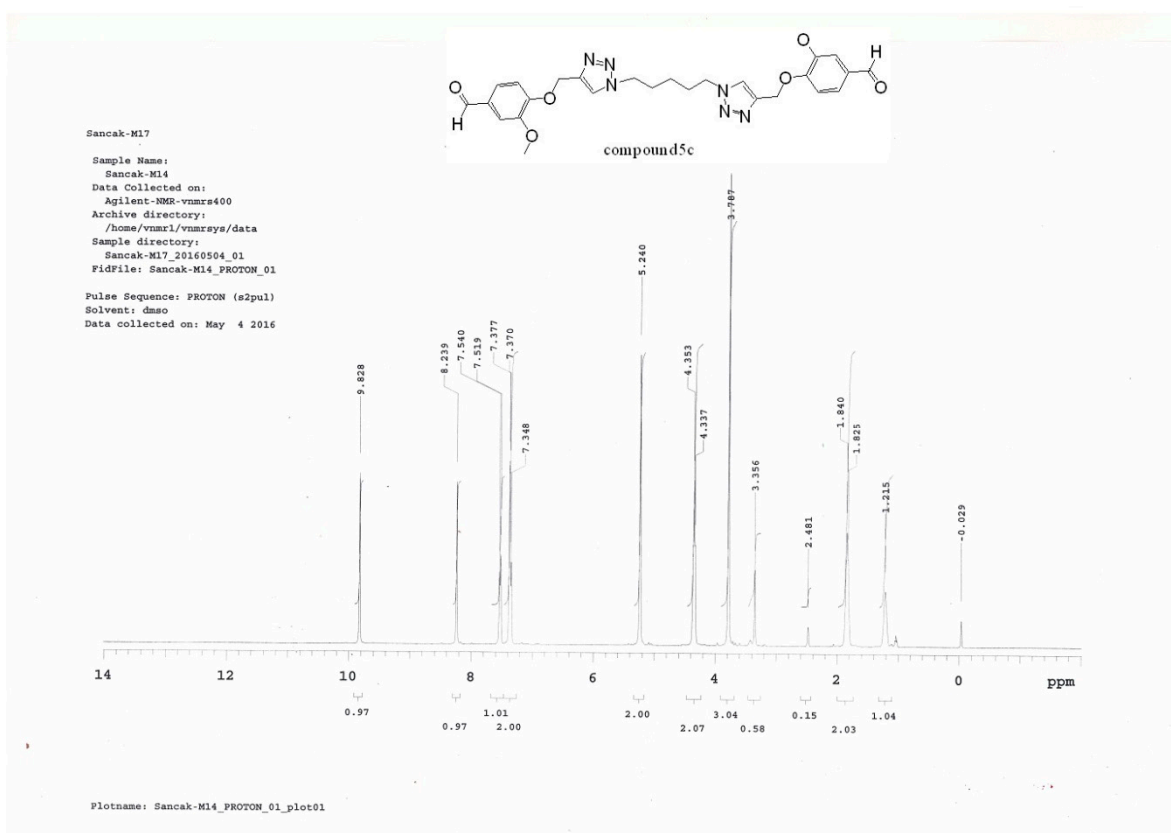
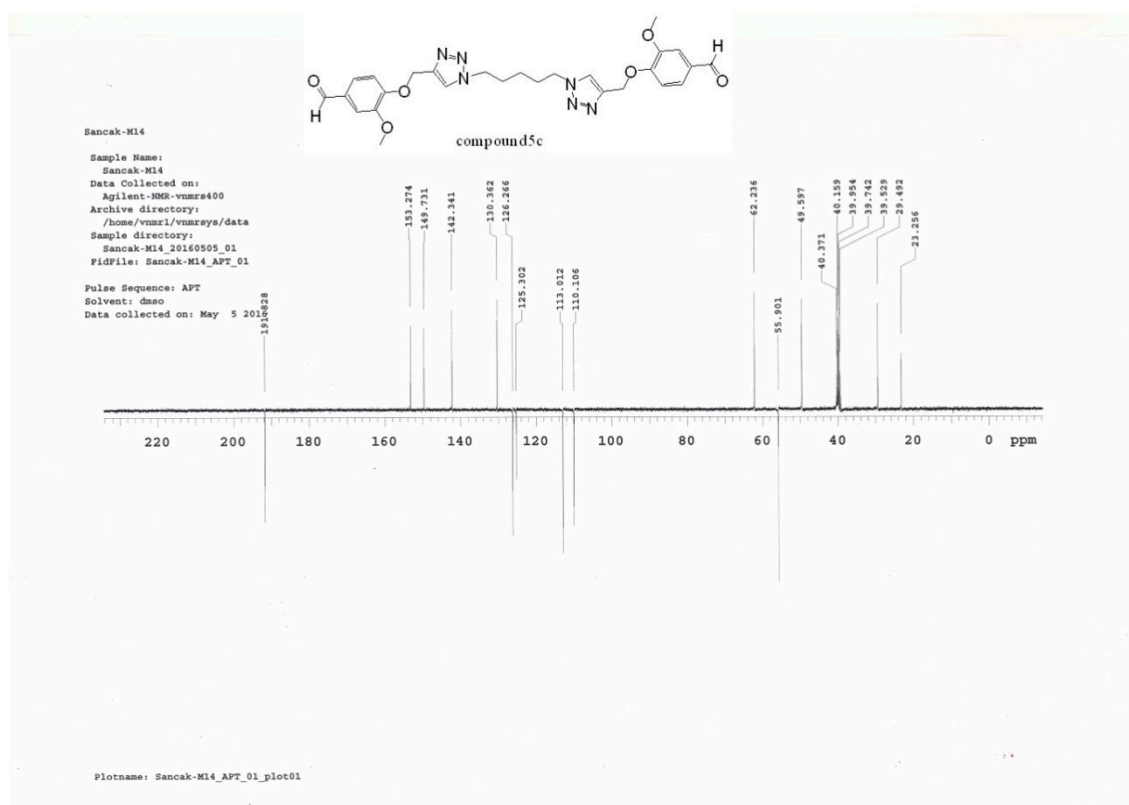
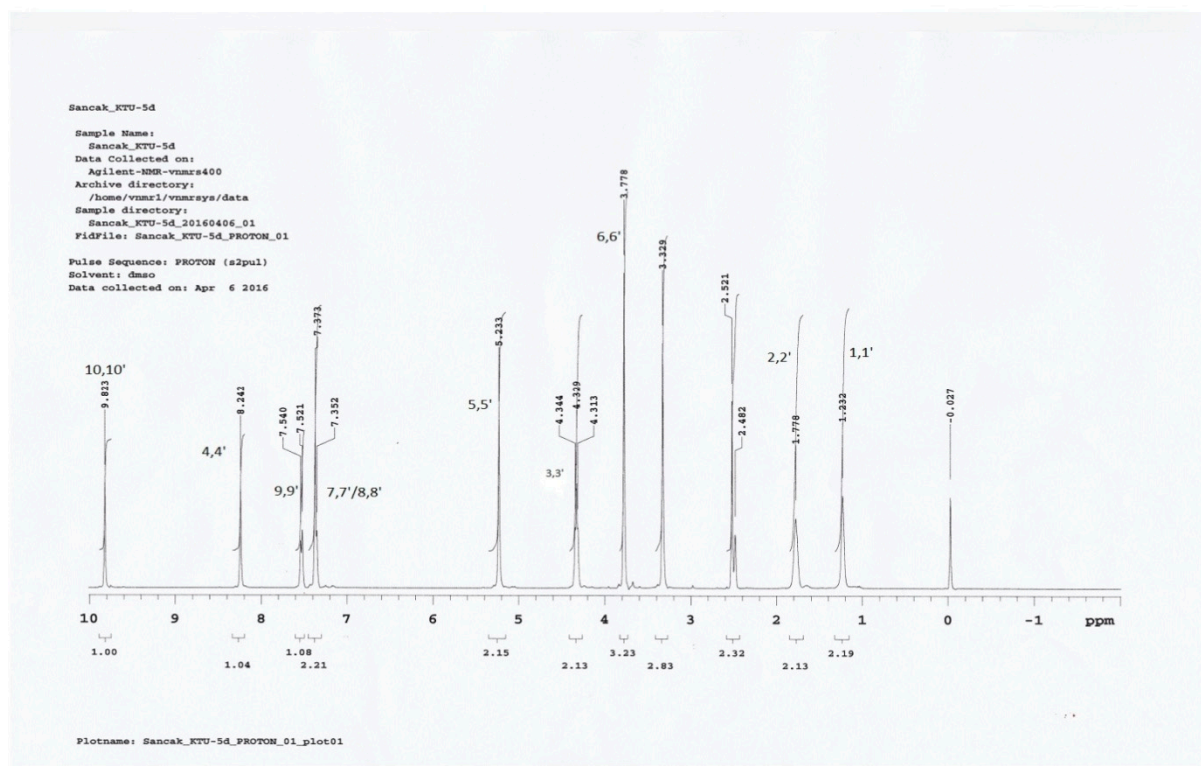


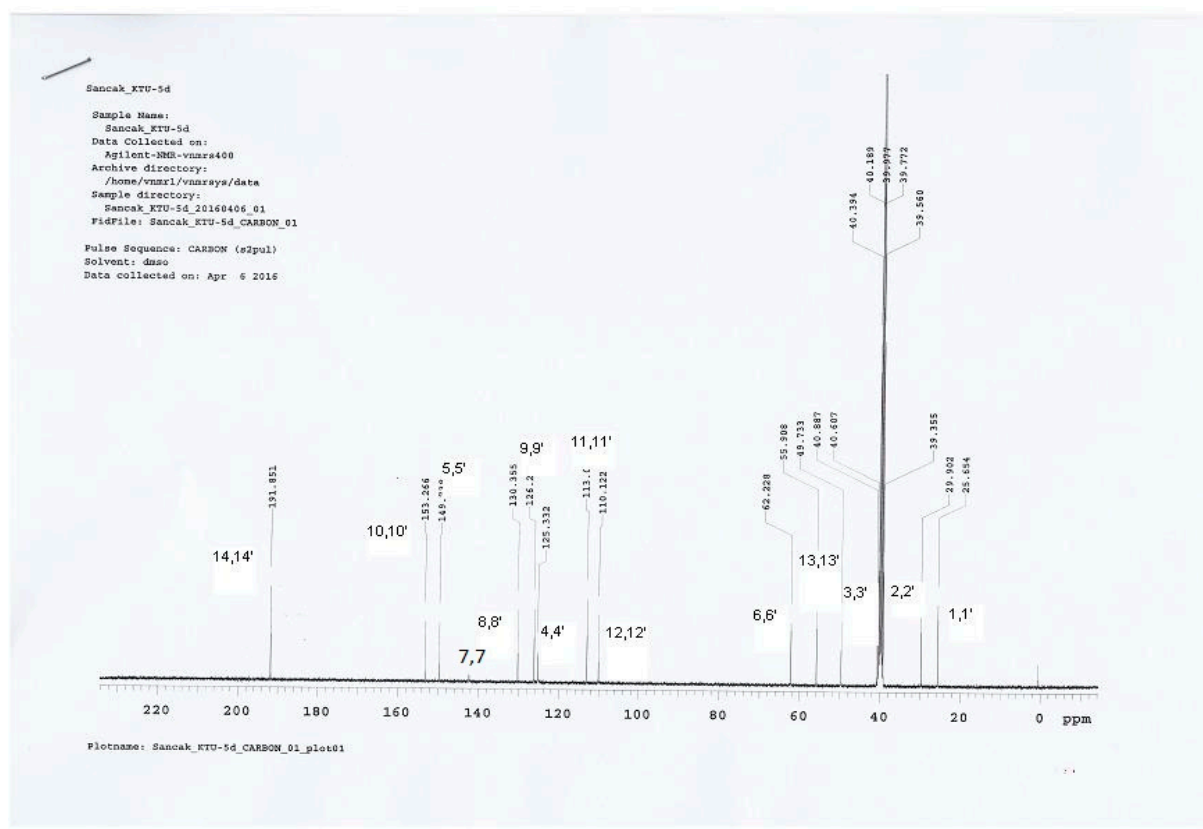
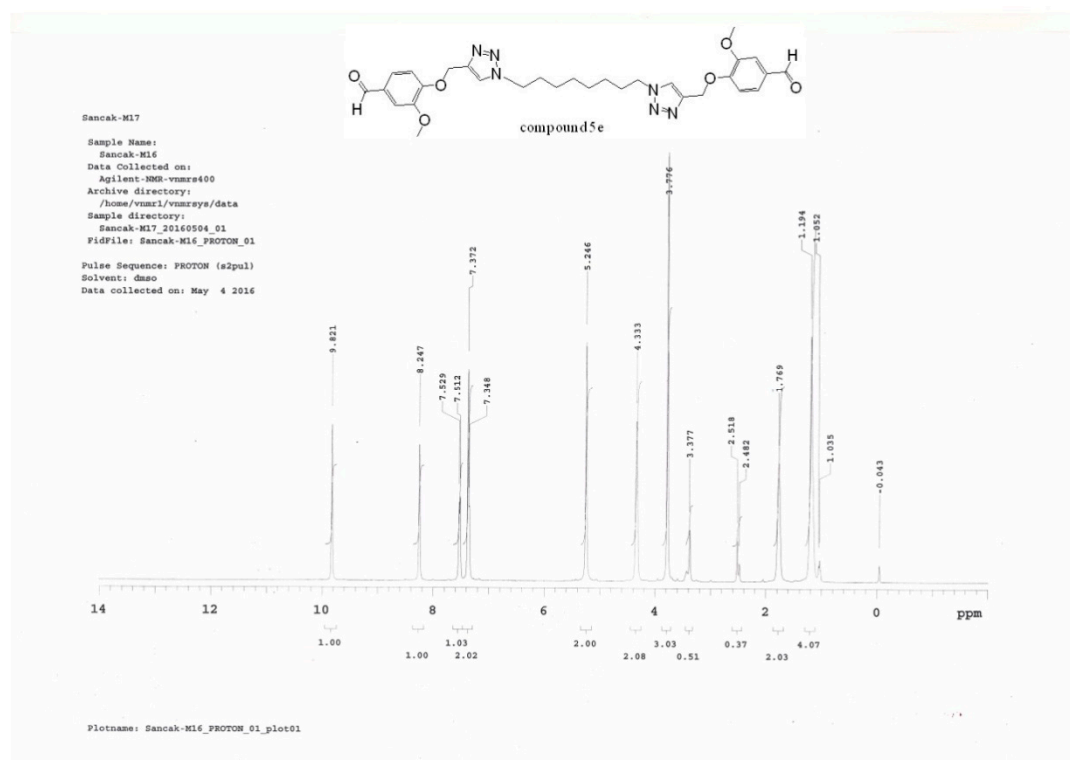
Figure S35. ^1H -NMR spectrum of compound 4f.

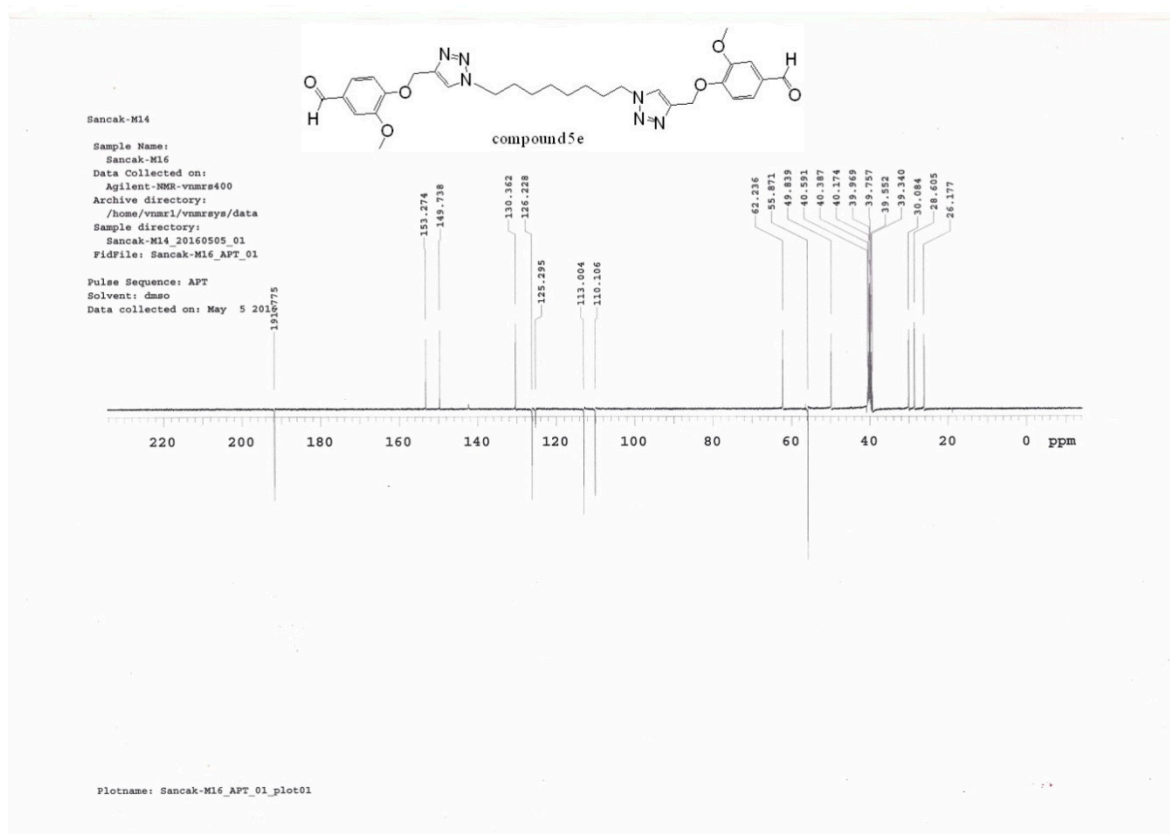
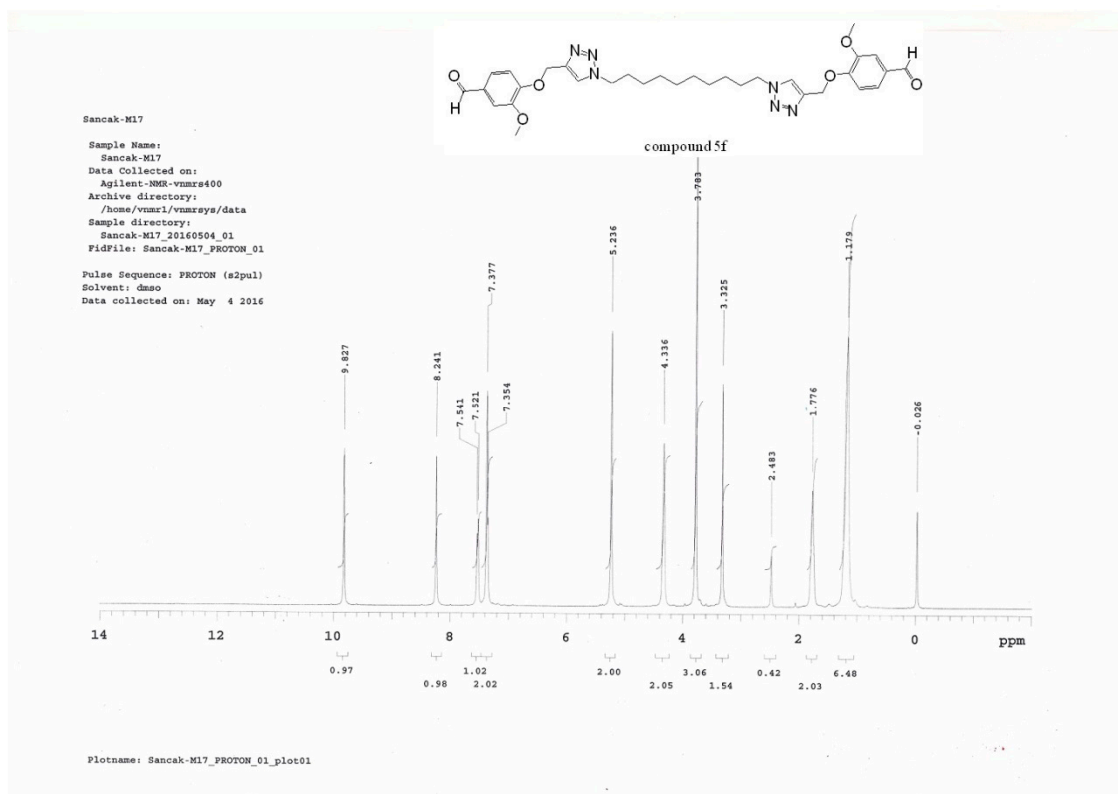
Figure S36. ^{13}C -NMR spectrum of compound 4f.Figure S37. ^1H -NMR spectrum of compound 5a.

Figure S38. ¹³C-NMR spectrum of compound 5a.Figure S39. ¹H-NMR spectrum of compound 5b.

Figure S40. ^{13}C -NMR spectrum of compound 5b.Figure S41. ^1H -NMR spectrum of compound 5c.

Figure S42. ¹³C-NMR spectrum of compound 5c.Figure S43. ¹H-NMR spectrum of compound 5d.

Figure S44. ^{13}C -NMR spectrum of compound 5d.Figure S45. ^1H -NMR spectrum of compound 5e.

Figure S46. ^{13}C -NMR spectrum of compound 5e.Figure S47. ^1H -NMR spectrum of compound 5f.

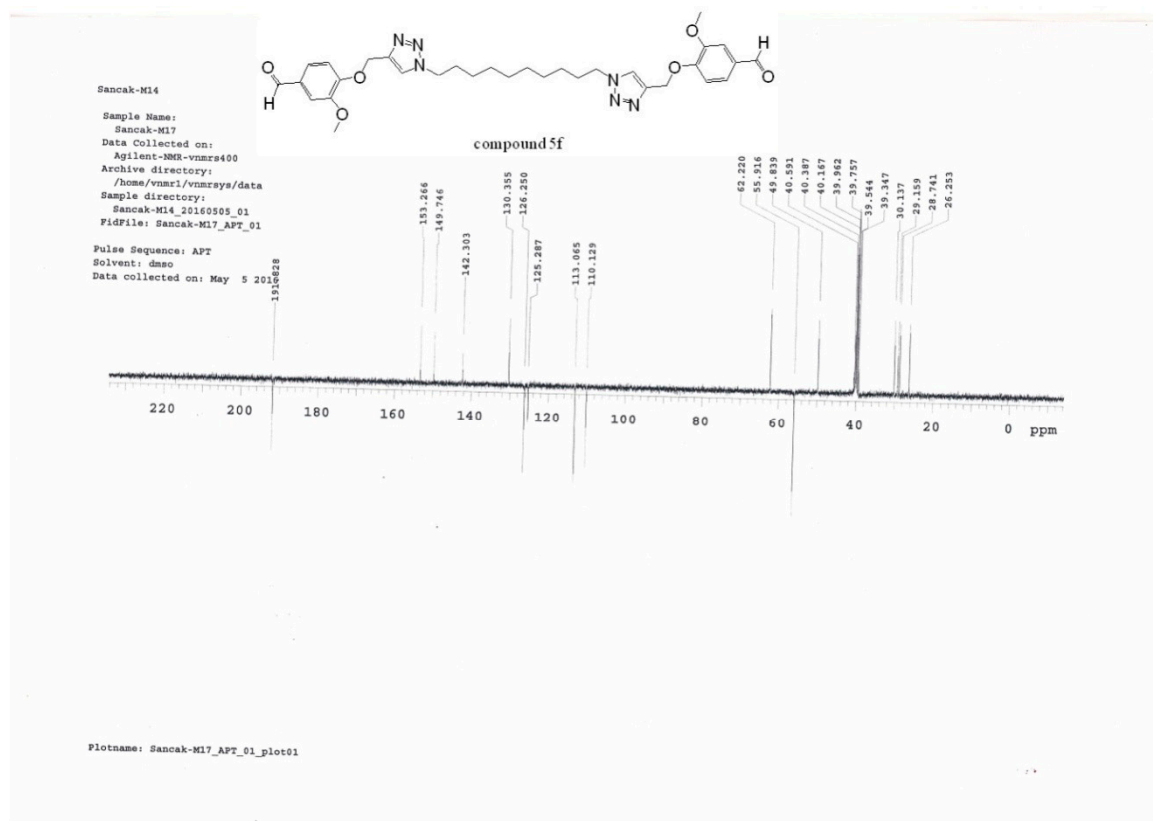


Figure S48. ^{13}C -NMR spectrum of compound 5f.