Water-soluble BODIPY photocages with tunable cellular localization

Dnyaneshwar Kand,[ǁ] Pei Liu,[‡] Marisol X. Navarro,[‡] Logan J. Fischer,[◊] Liat Rousso-Noori,[♦] Dinorah Friedmann-Morvinski,[♦] Arthur H. Winter,[◊] Evan W. Miller,[‡§†]* and Roy Weinstain[ǁ*]

[ǁ]School of Plant Sciences and Food Security & [♦]School of Neurobiology, Biochemistry and Biophysics, Faculty of Life Sciences, Tel-Aviv University, Tel-Aviv 6997801, Israel; Departments of [‡]Chemistry and [§]Molecular & Cell Biology and [†]Helen Wills Neuroscience Institute. University of California, Berkeley, California 94720, United States; and [◊]Department of Chemistry, Iowa State University, Ames, Iowa, 50010, United States.

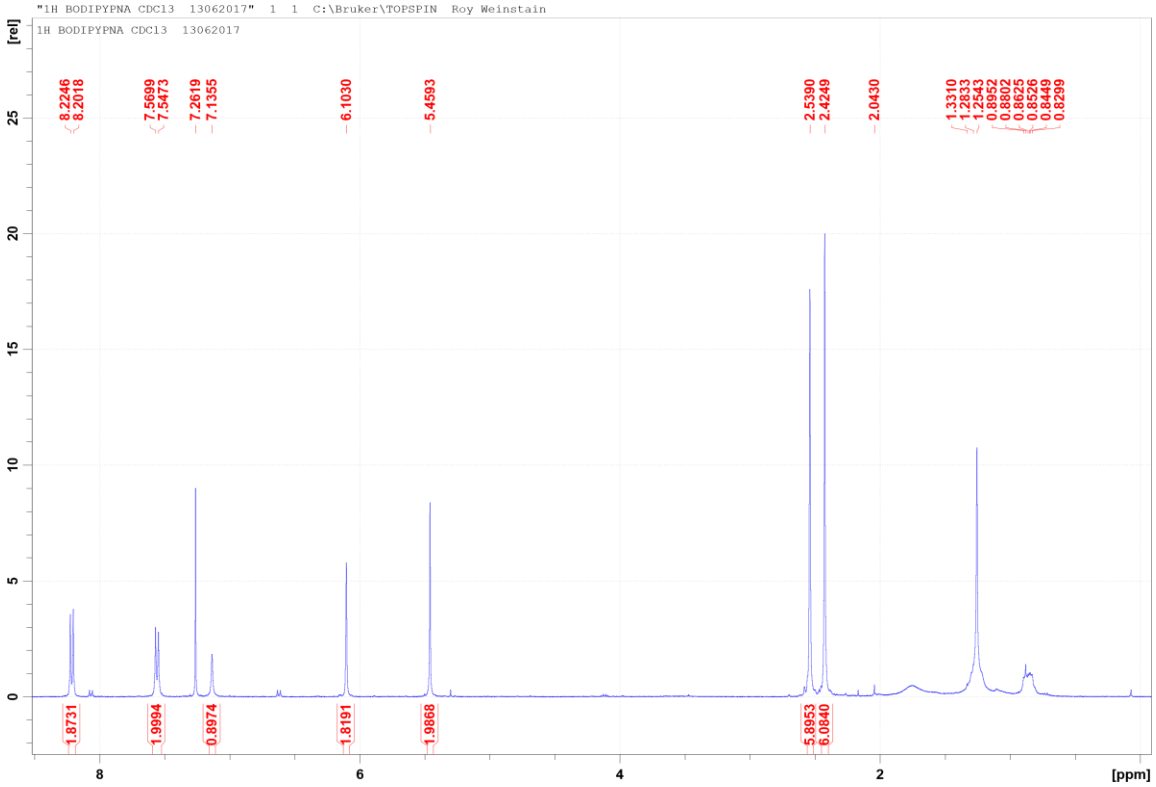

Figure 1. ^{1}H (400 MHz, $CDCl_3$): **1**

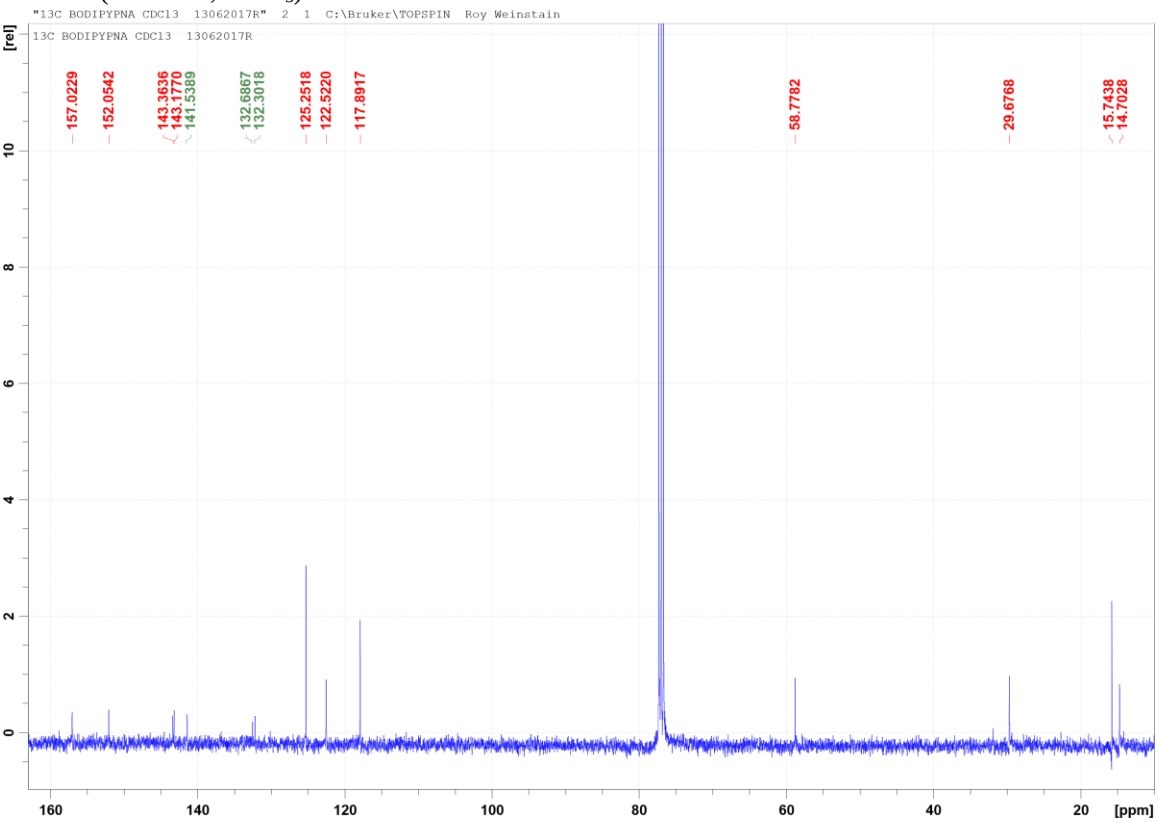

Figure 2. ^{13}C (101 MHz, $CDCl_3$): **1**

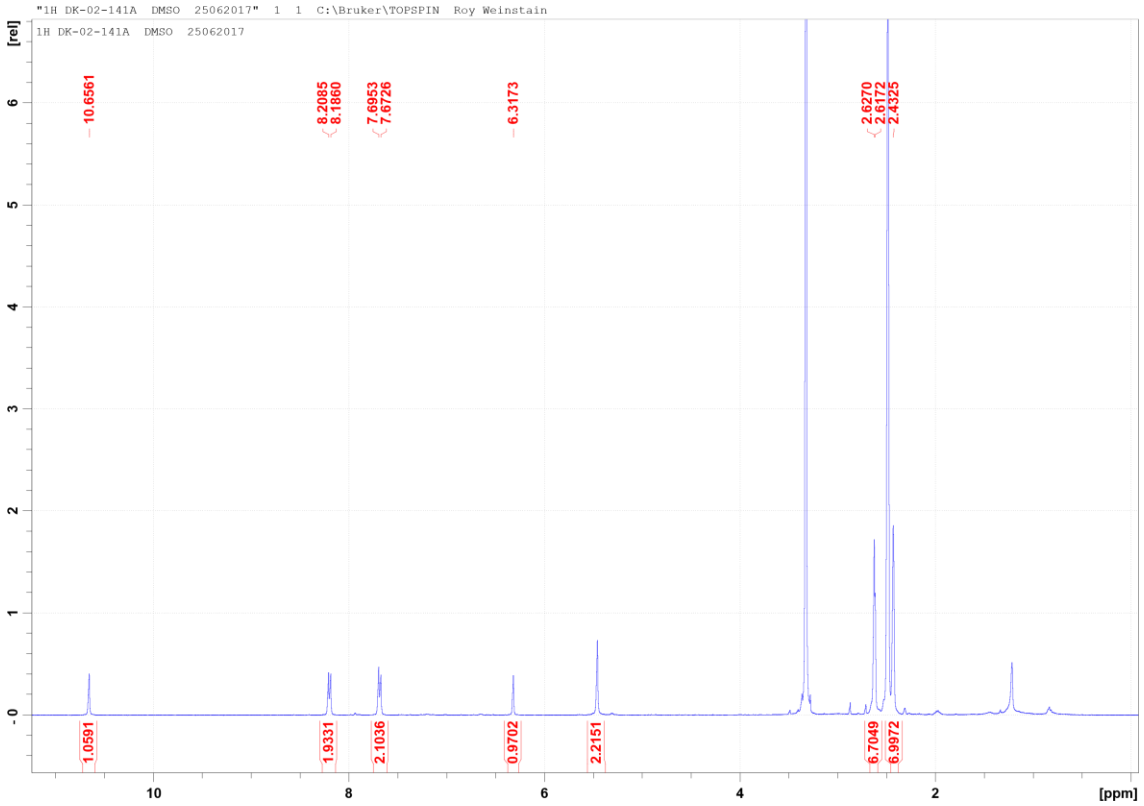

Figure 3. ^{1}H (400 MHz, DMSO-d_6): **2**

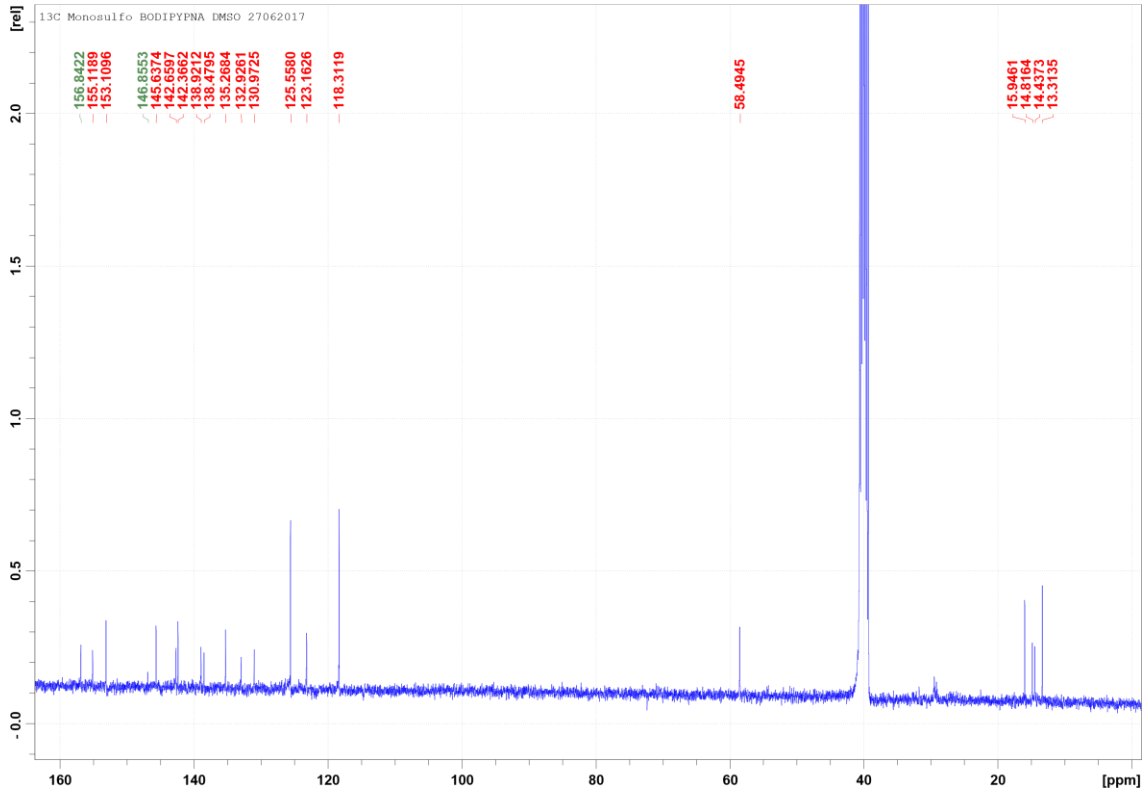

Figure 4. ^{13}C (101 MHz, DMSO-d_6): **2**

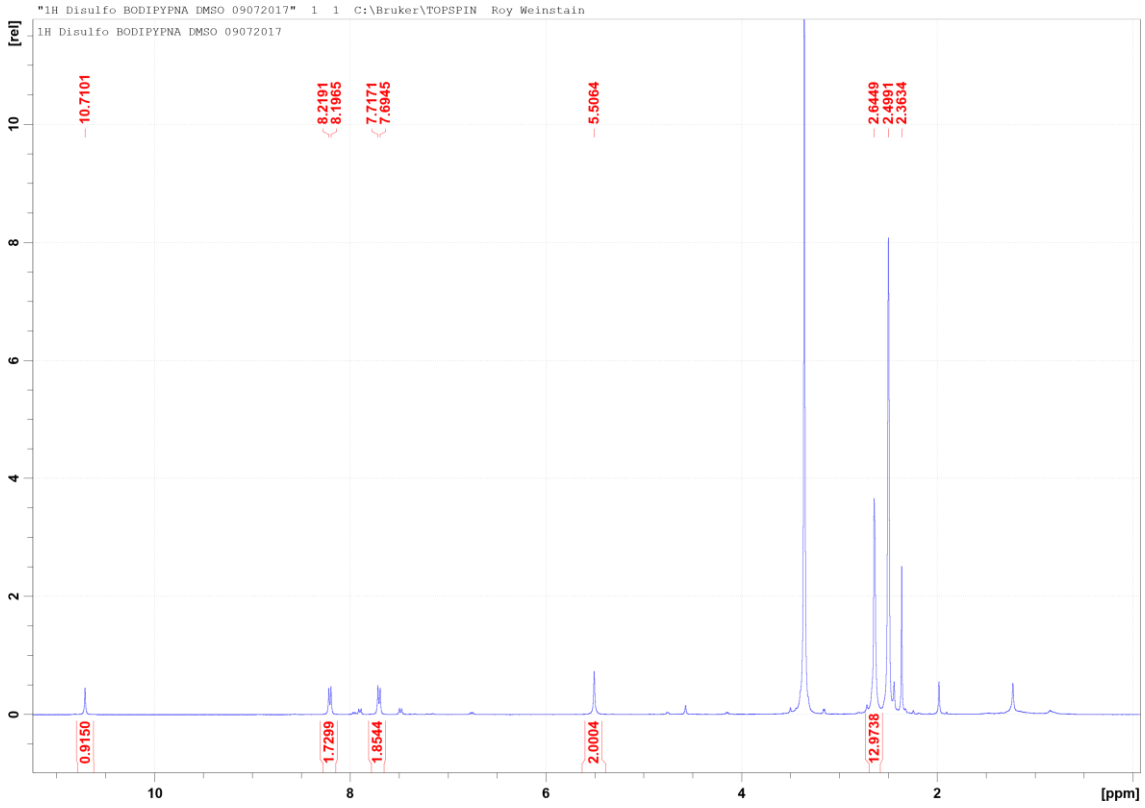

Figure 5. ^{1}H (400 MHz, DMSO-d_6): **3**

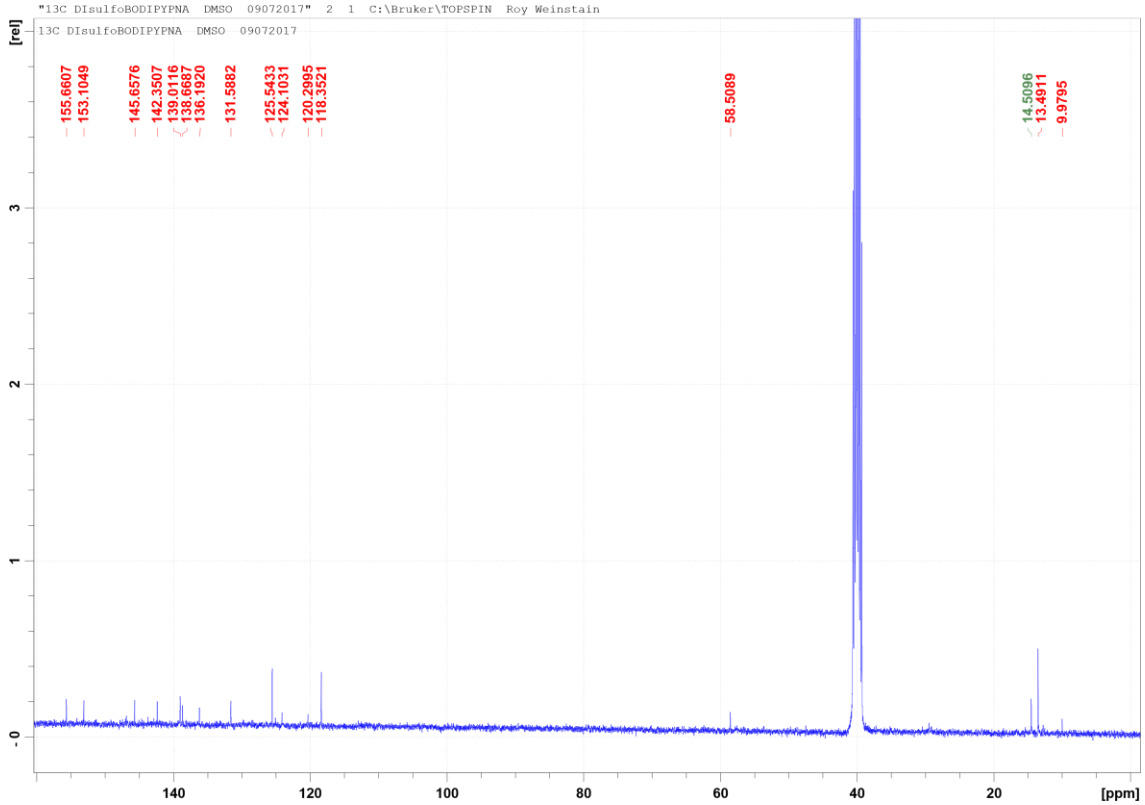

Figure 6. ^{13}C (101 MHz, DMSO-d_6): **3**

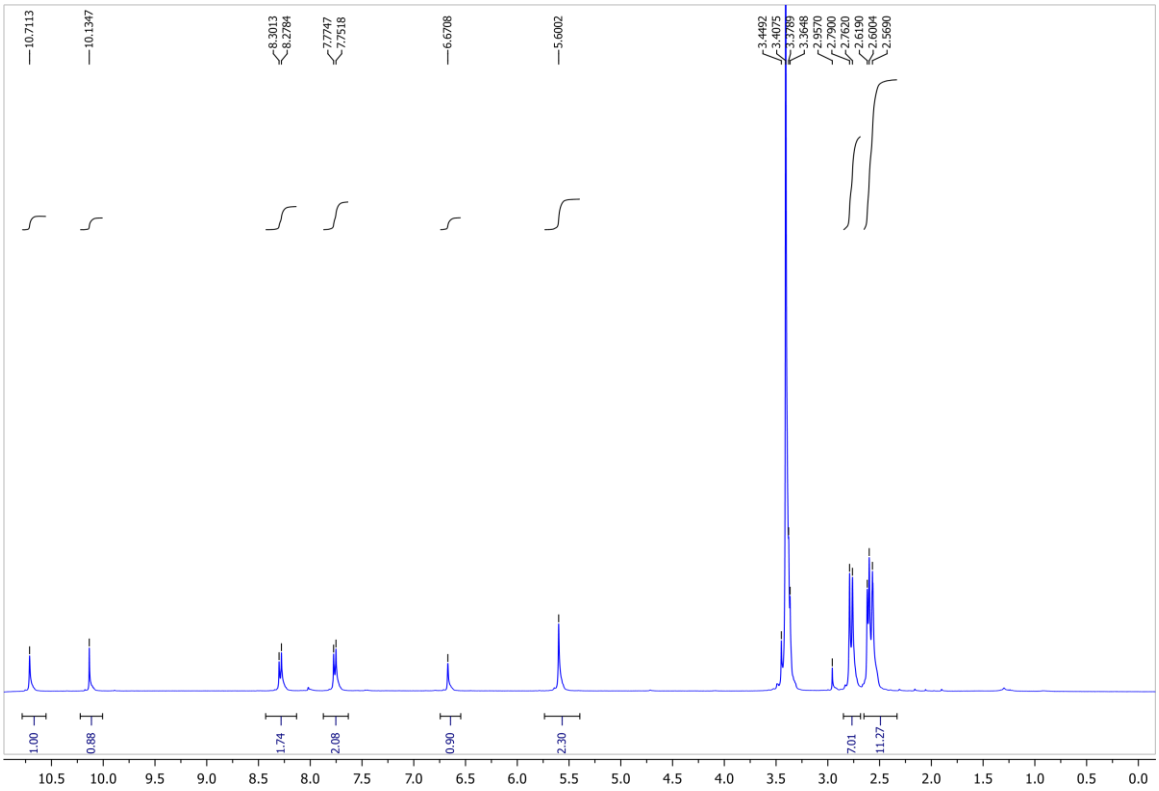

Figure 7. ^{1}H (400 MHz, DMSO-d_6): **4**

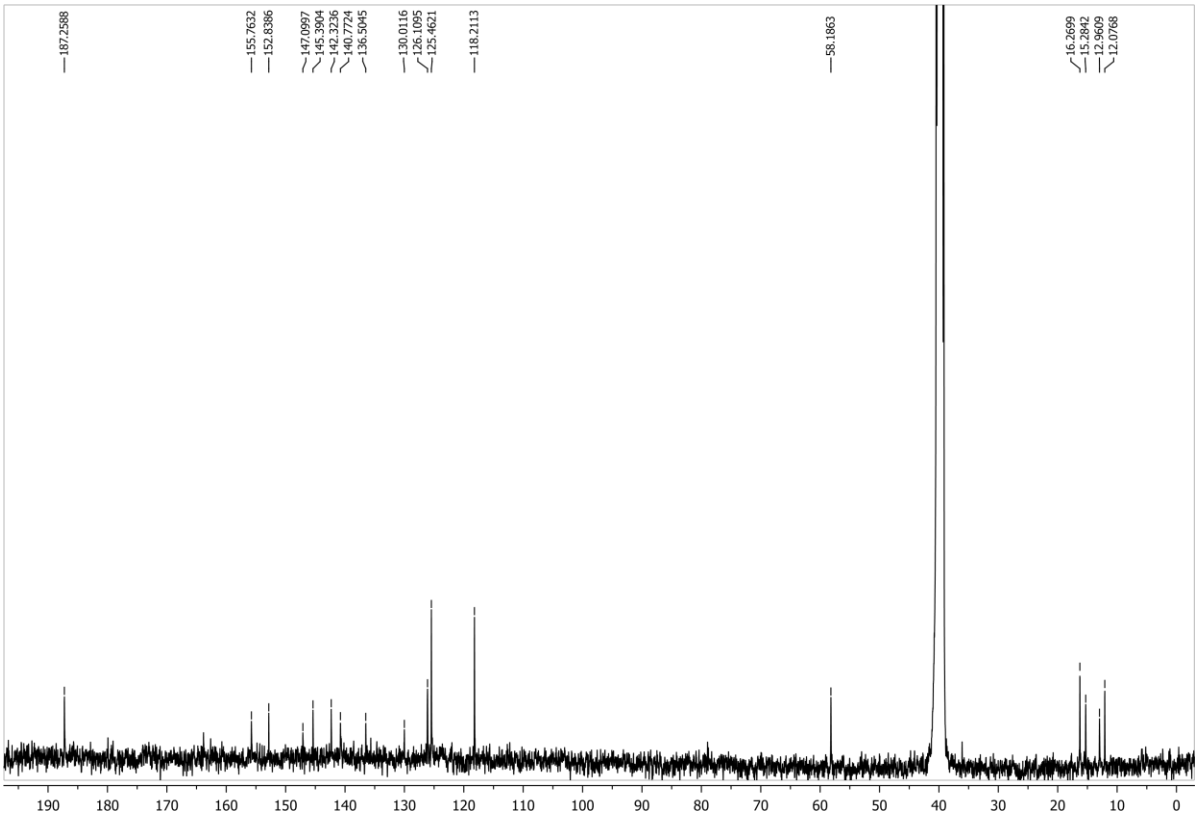

Figure 8. ^{13}C (101 MHz, DMSO-d_6): **4**

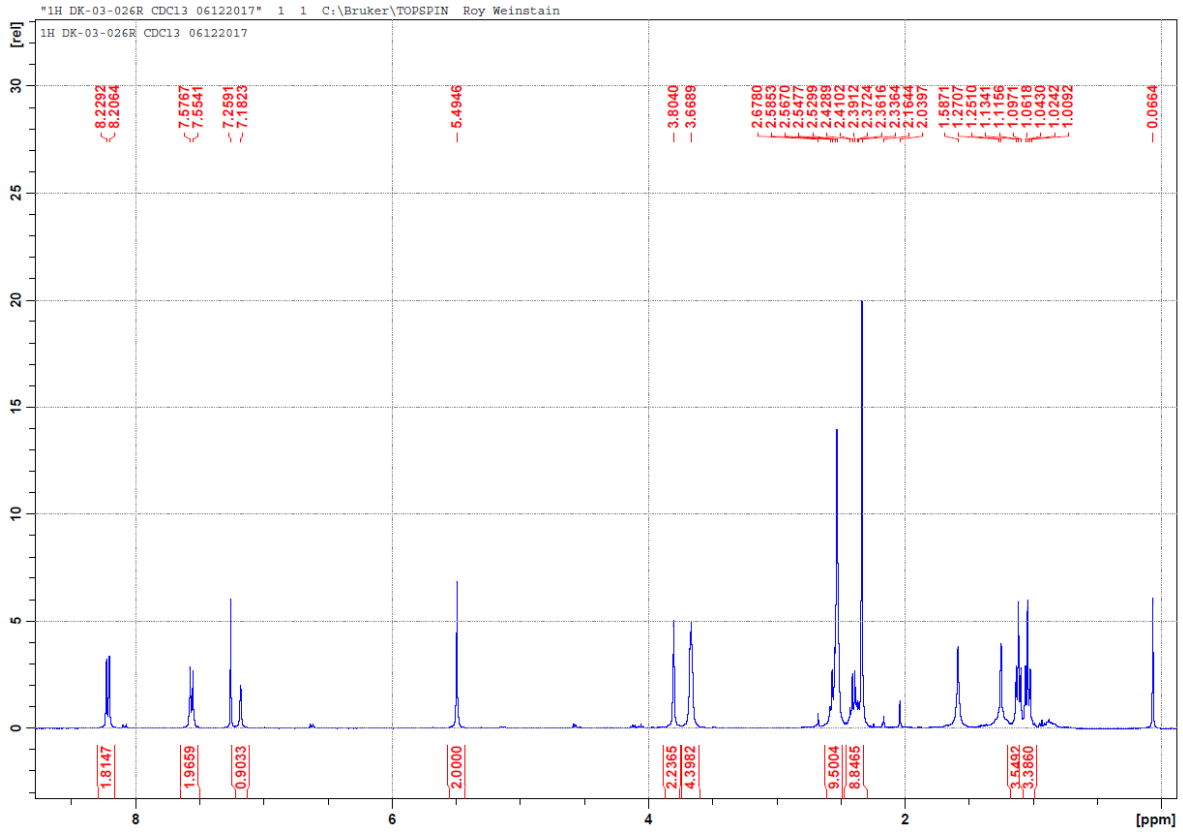

Figure 9. ^{1}H (400 MHz, $CDCl_3$): **6**

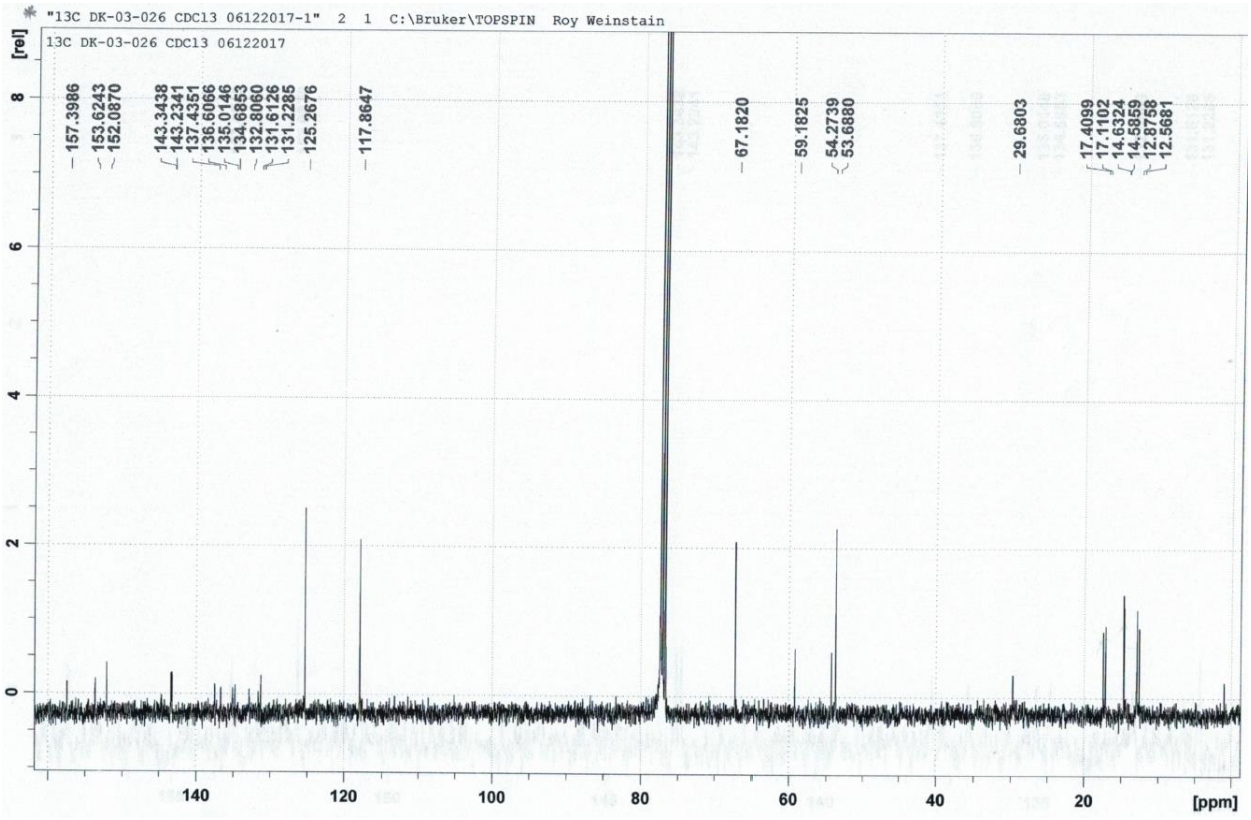

Figure 10. ^{13}C (101 MHz, $CDCl_3$): **6**

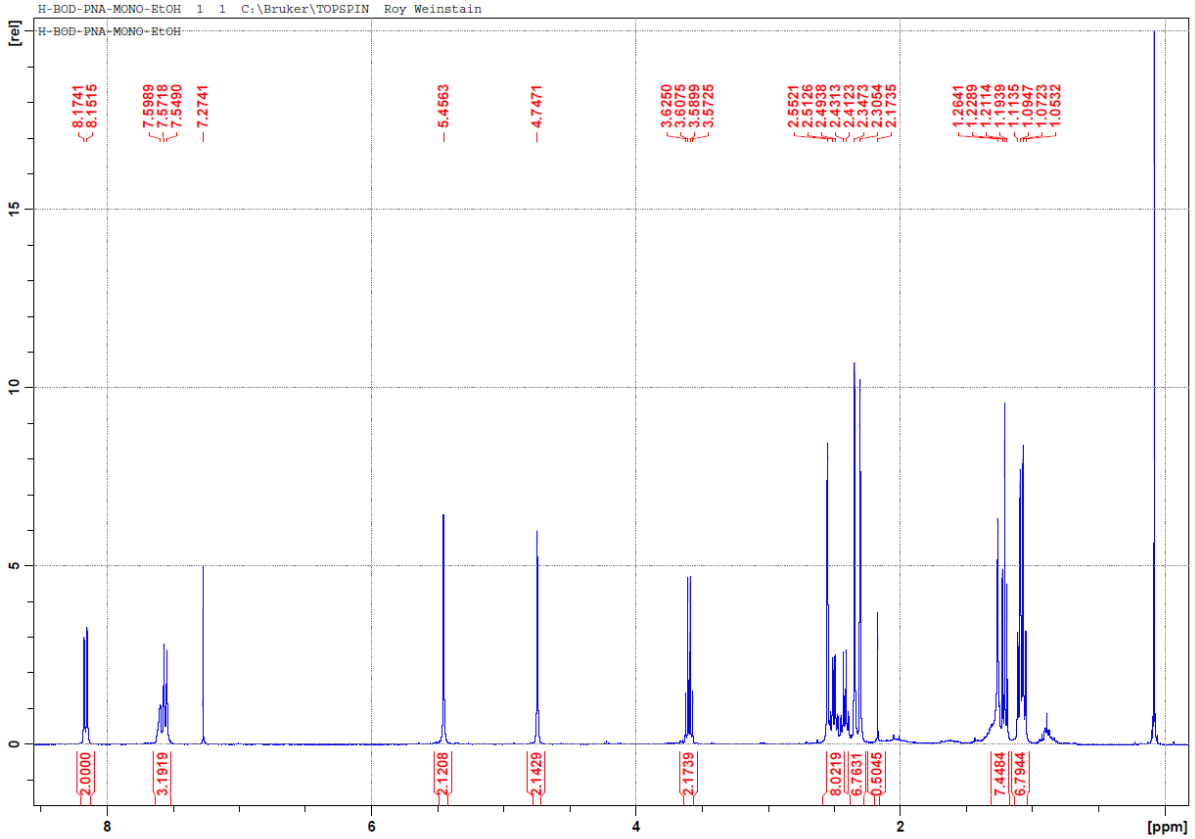

Figure 11. ^{1}H (400 MHz, $CDCl_3$): **7**

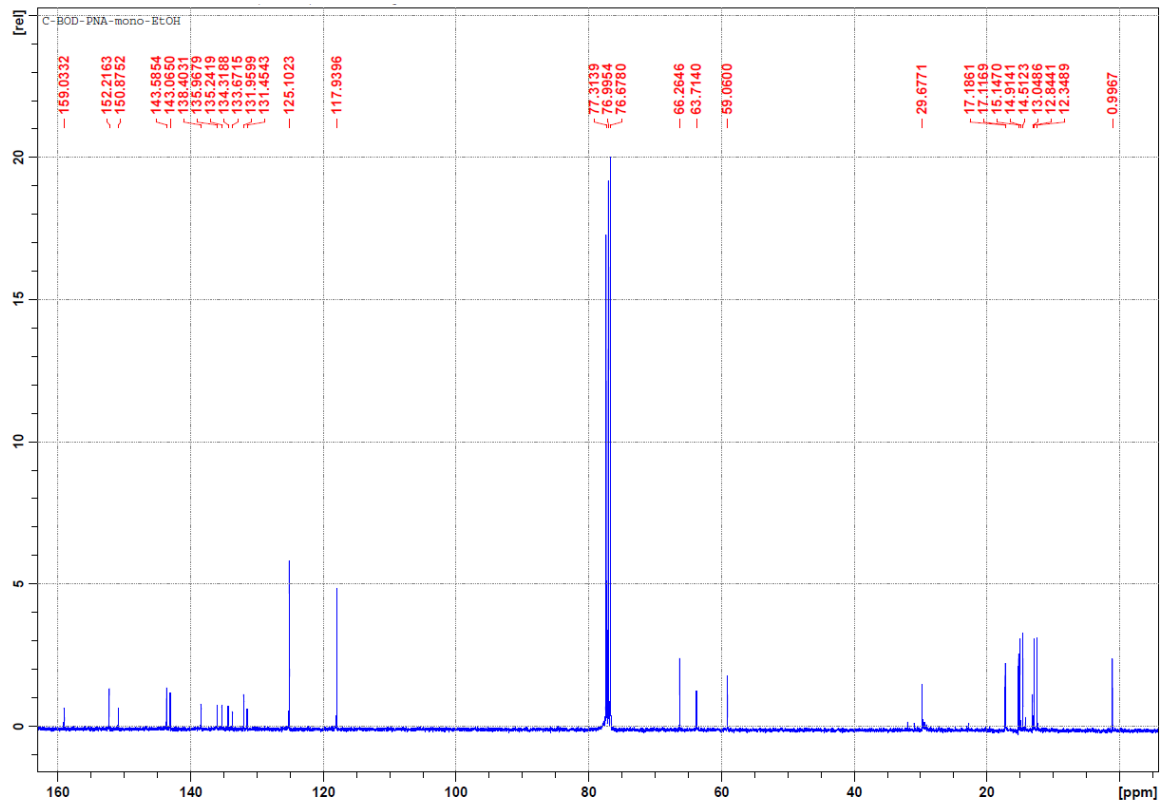

Figure 12. ^{13}C (101 MHz, $CDCl_3$): **7**

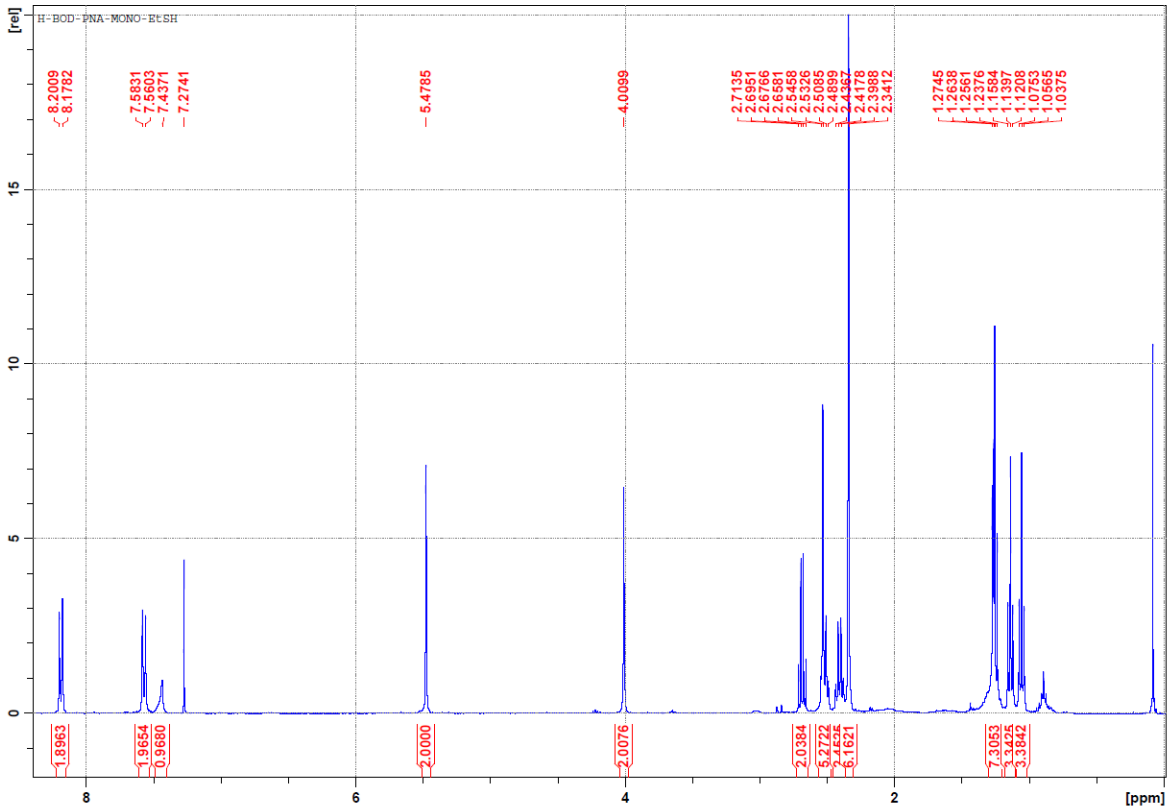

Figure 13. ^{1}H (400 MHz, $CDCl_3$): **8**

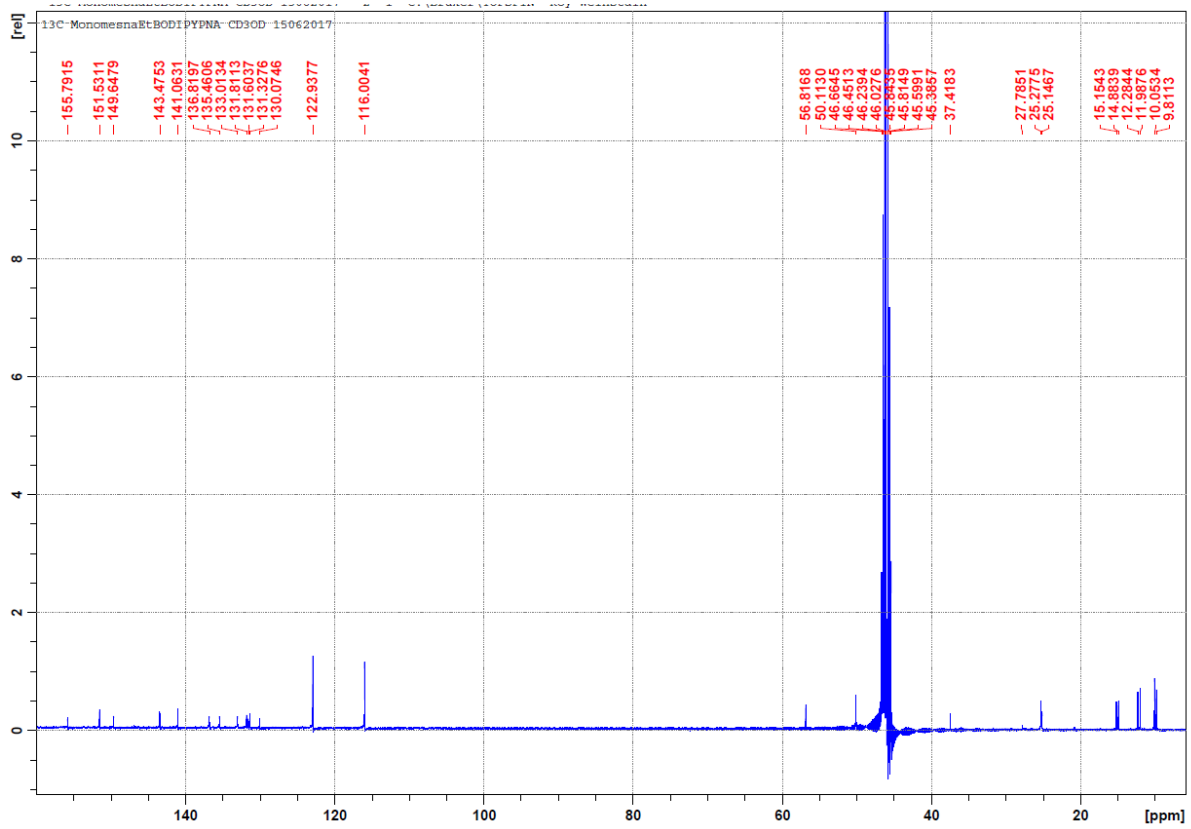

Figure 14. ^{13}C (101 MHz, $CDCl_3$): **8**

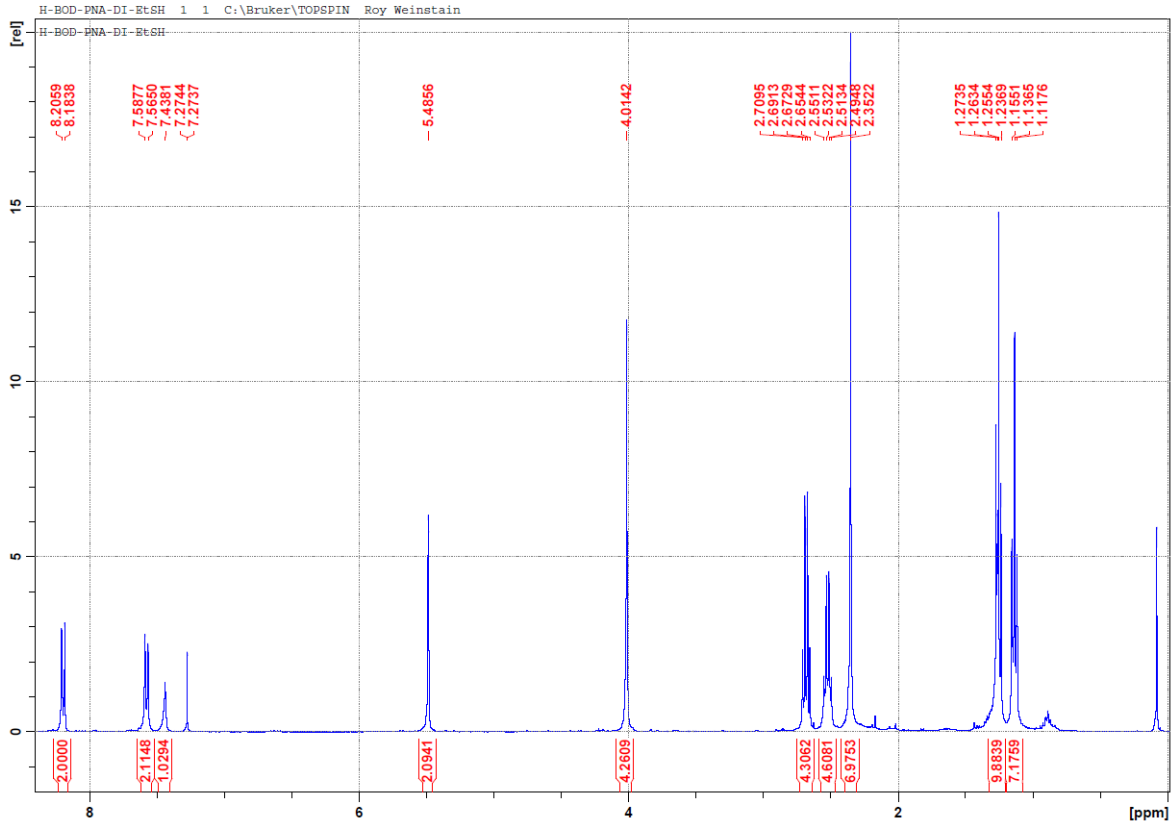

Figure 15. ^{1}H (400 MHz, $CDCl_3$): **9**

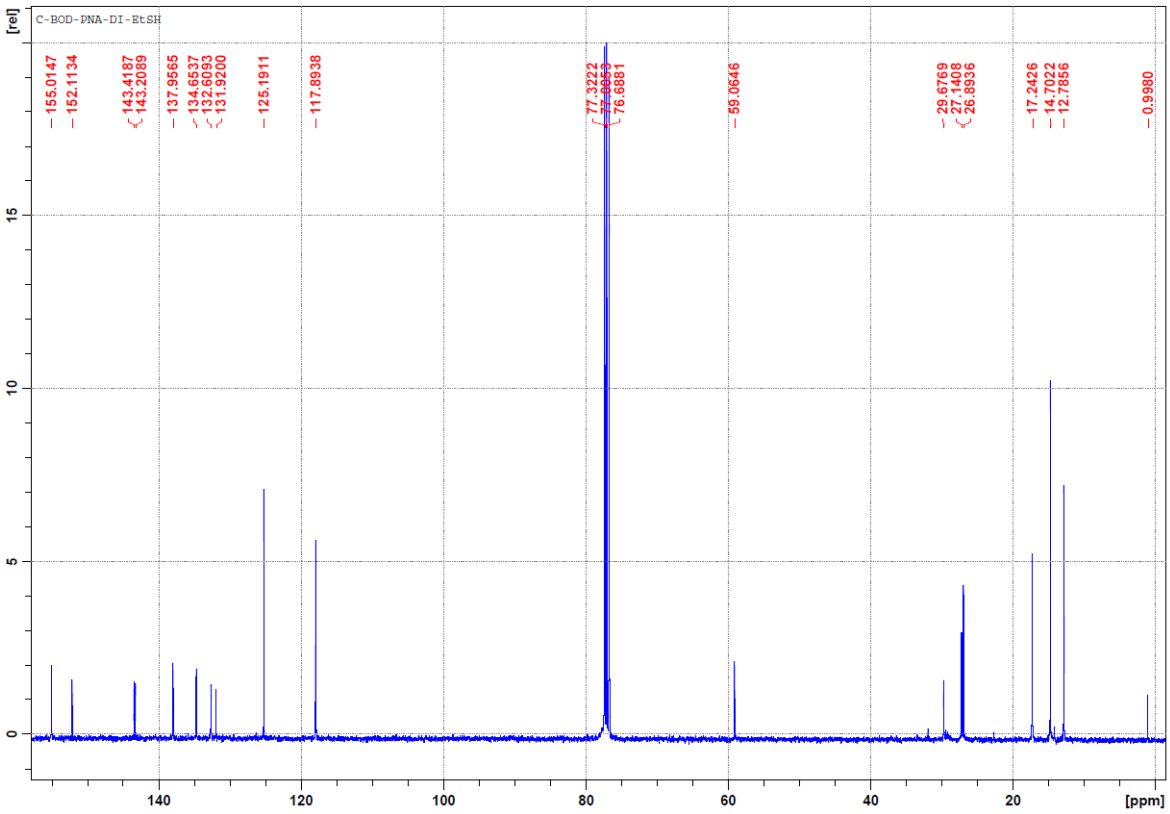

Figure 16. ^{13}C (101 MHz, $CDCl_3$): **9**

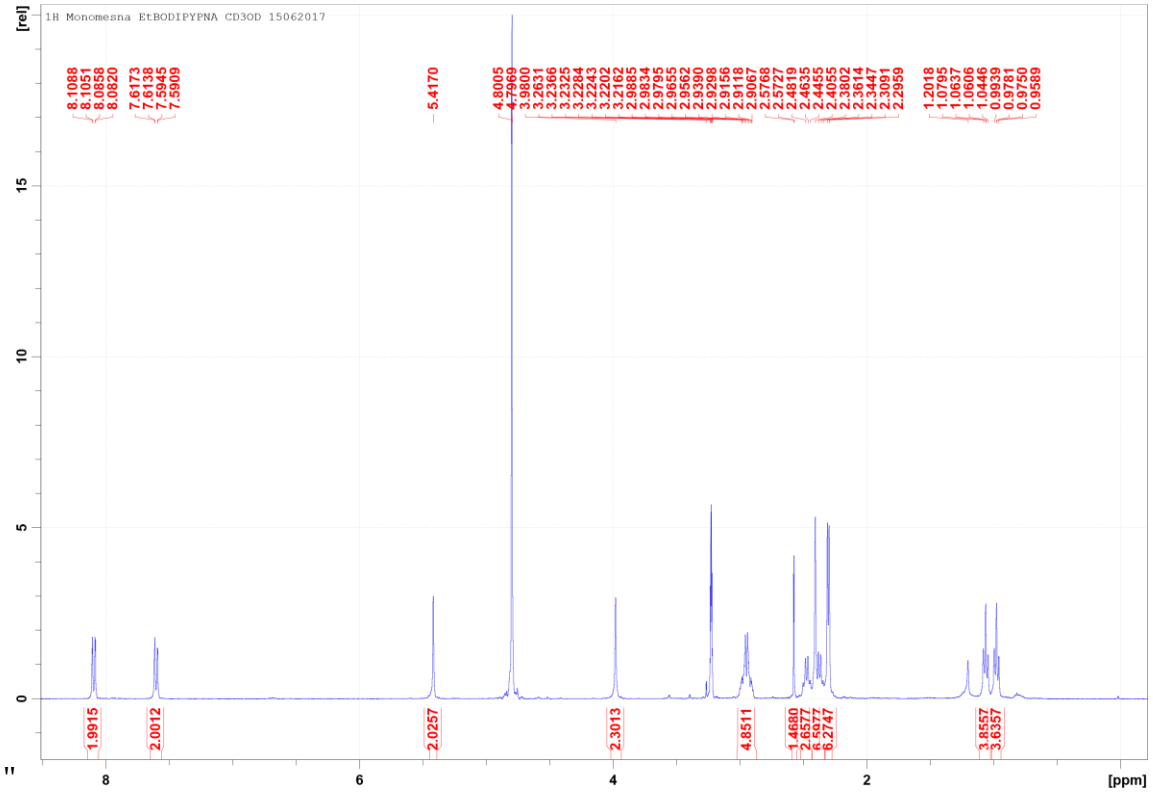

Figure 17. ^{1}H (400 MHz, CD_3OD): **11**

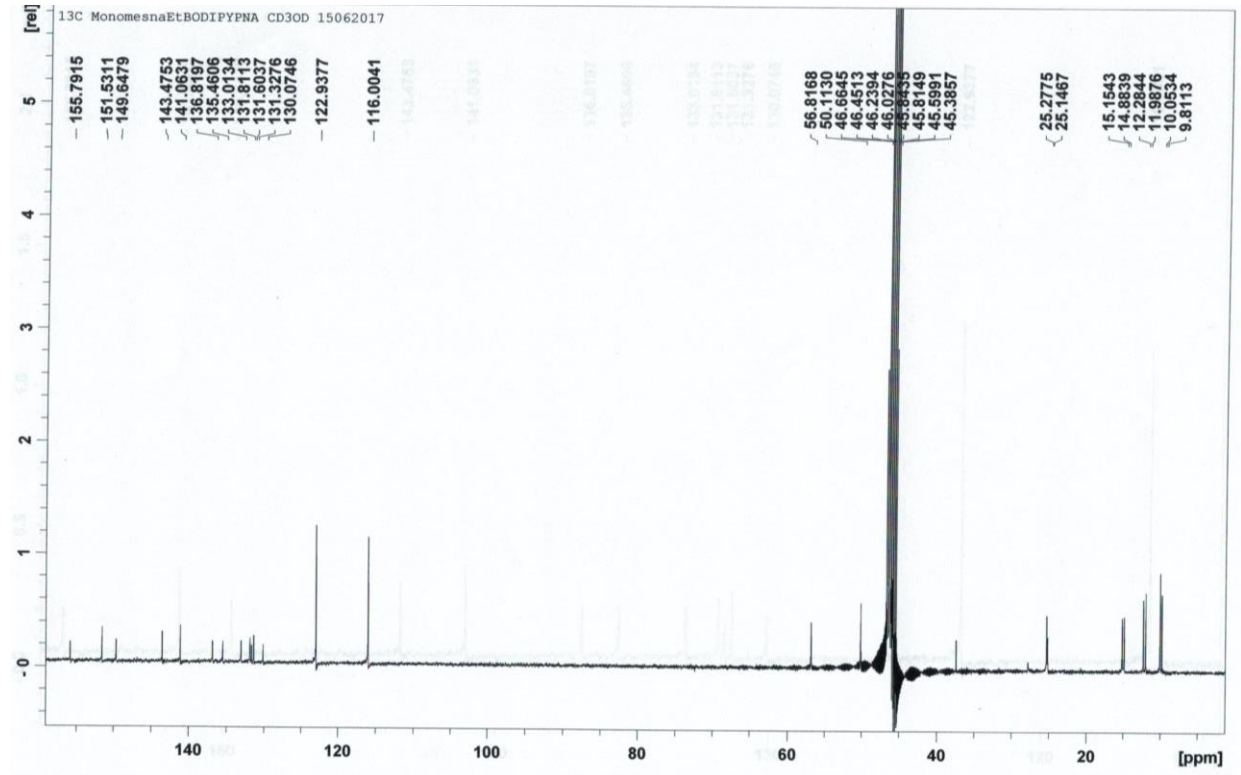

Figure 18. ^{13}C (101 MHz, CD_3OD): **11**

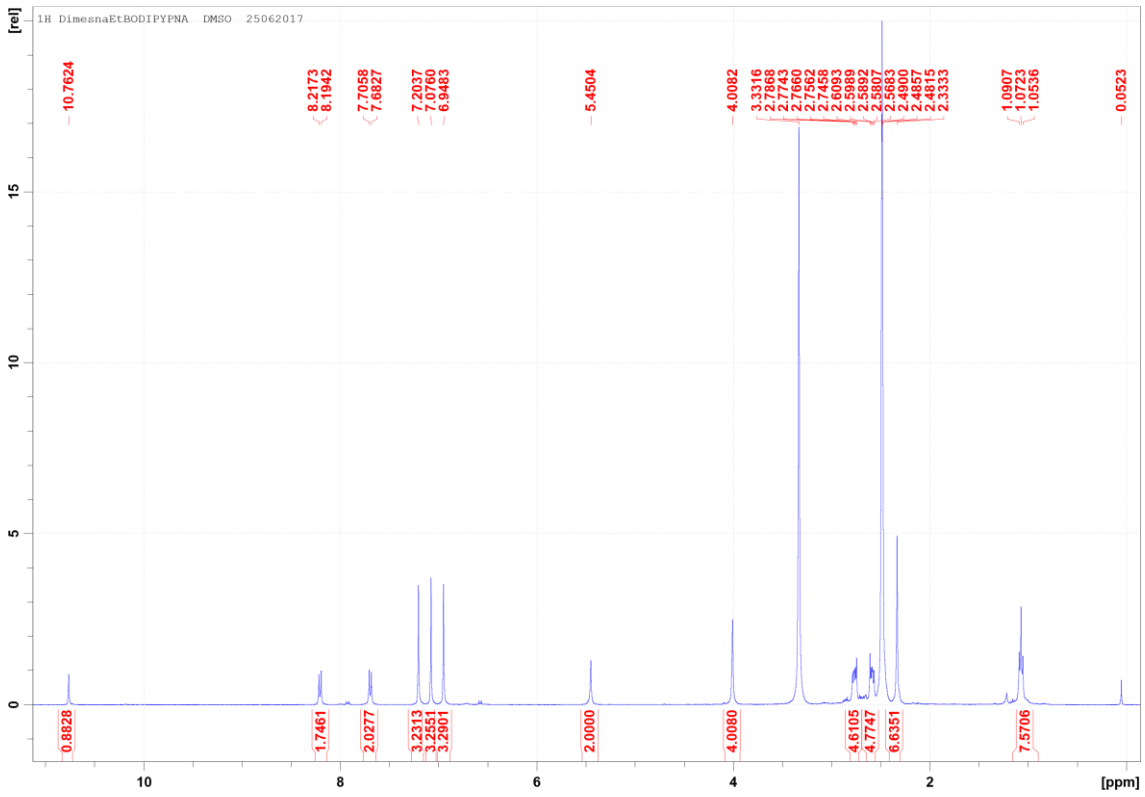

Figure 19. ^{1}H (400 MHz, DMSO-d_6): **11**

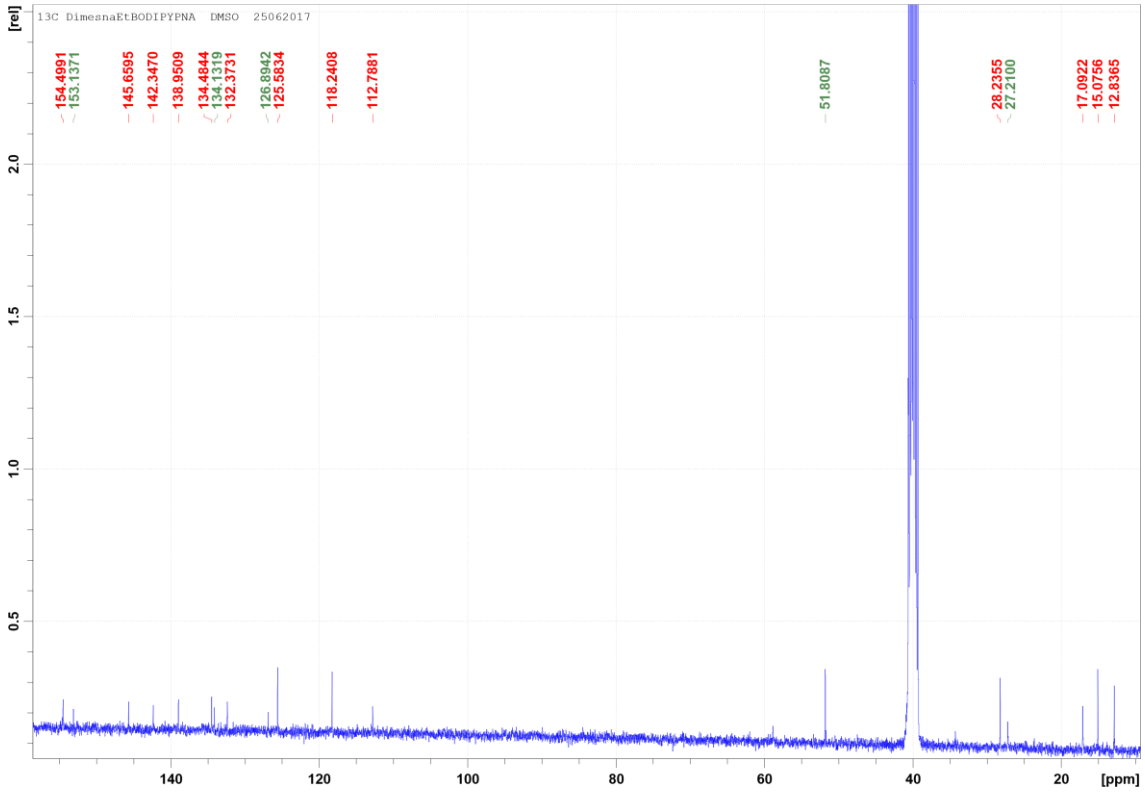

Figure 20. ^{13}C (101 MHz, DMSO-d_6): **11**

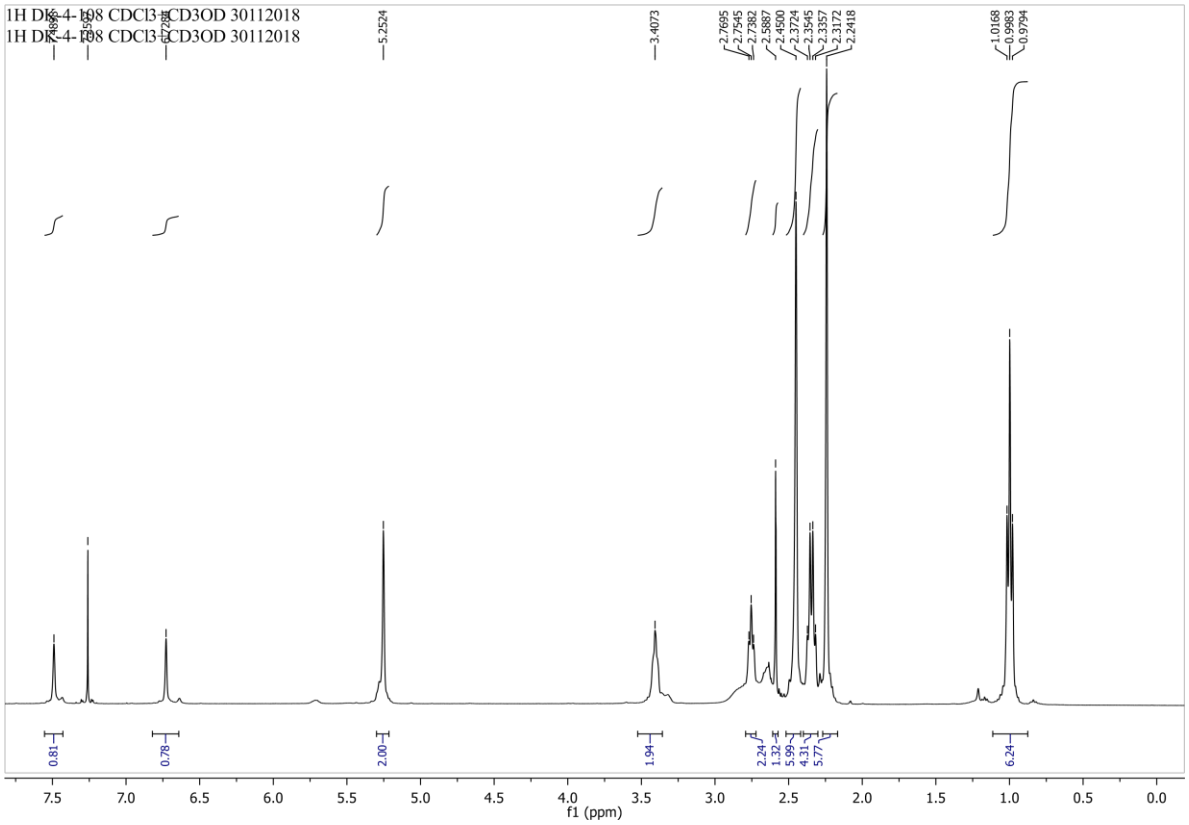

Figure 21. ^{1}H (400 MHz, $CDCl_3$ + 2 drops CD_3OD): **13**

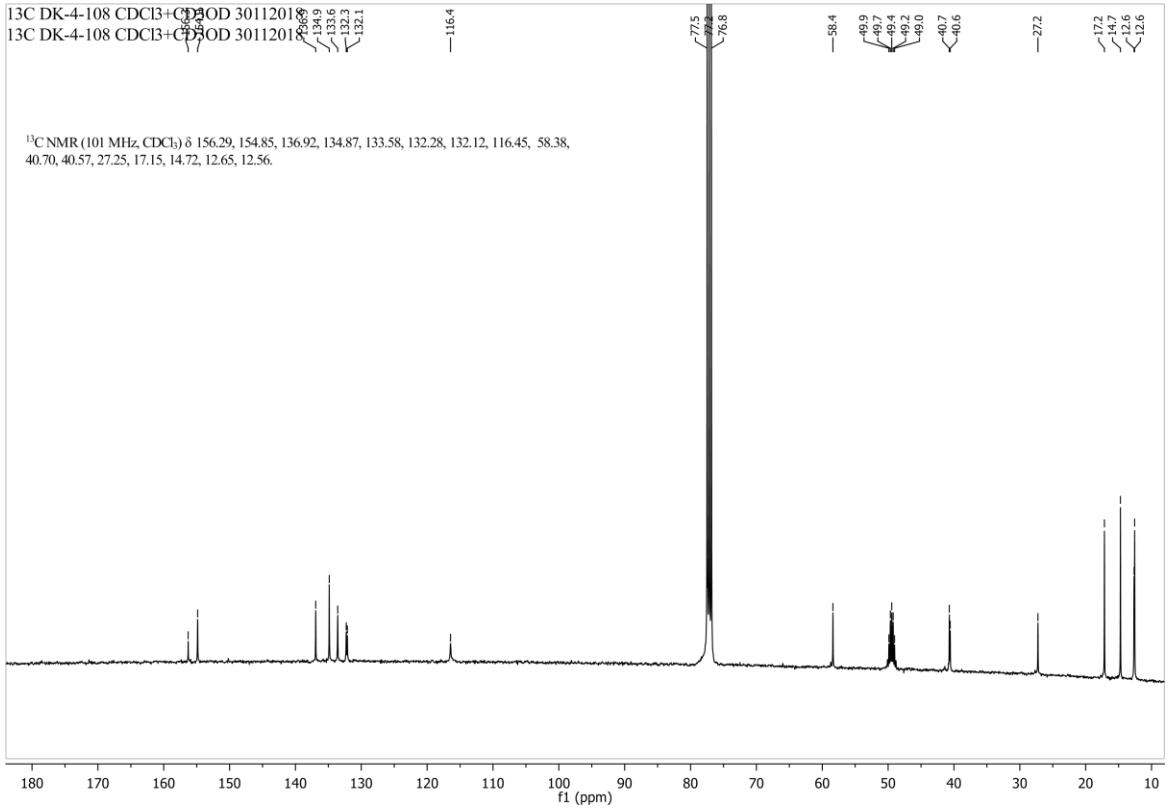

Figure 22. ^{13}C (101 MHz, $CDCl_3$ + 2 drops CD_3OD): **13**

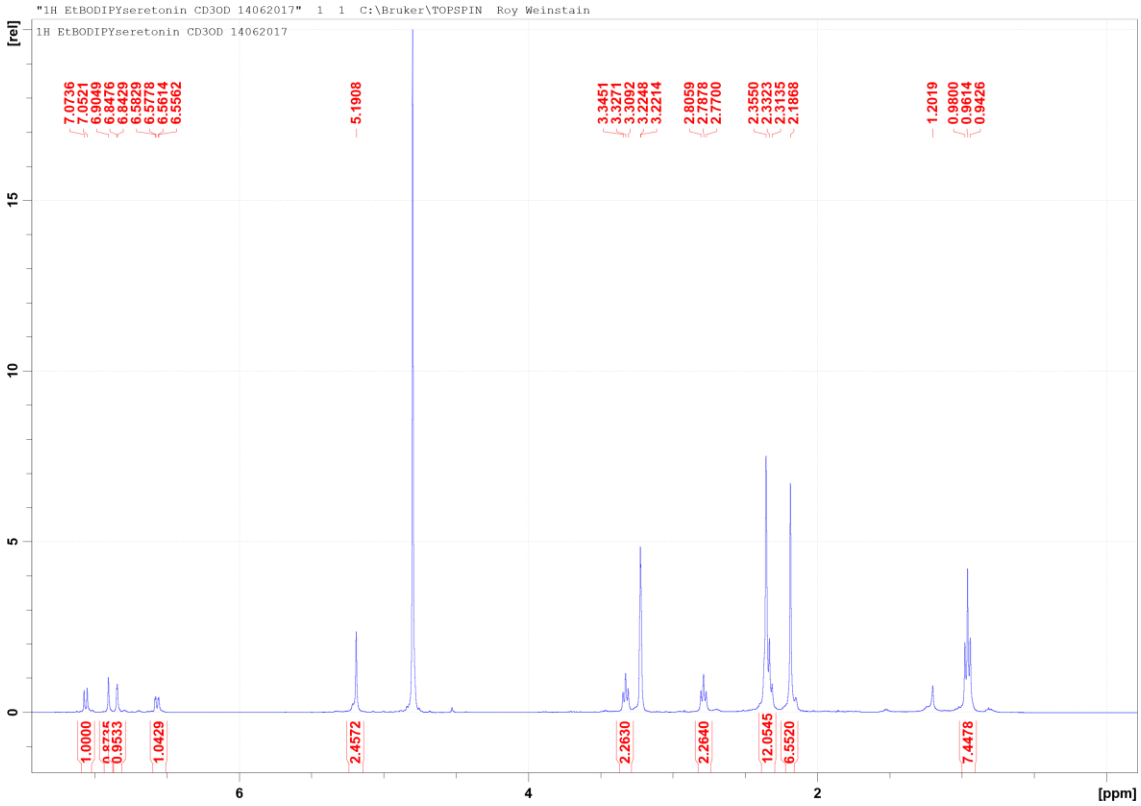

Figure 23. ^{1}H (400 MHz, CD_3OD): **14**

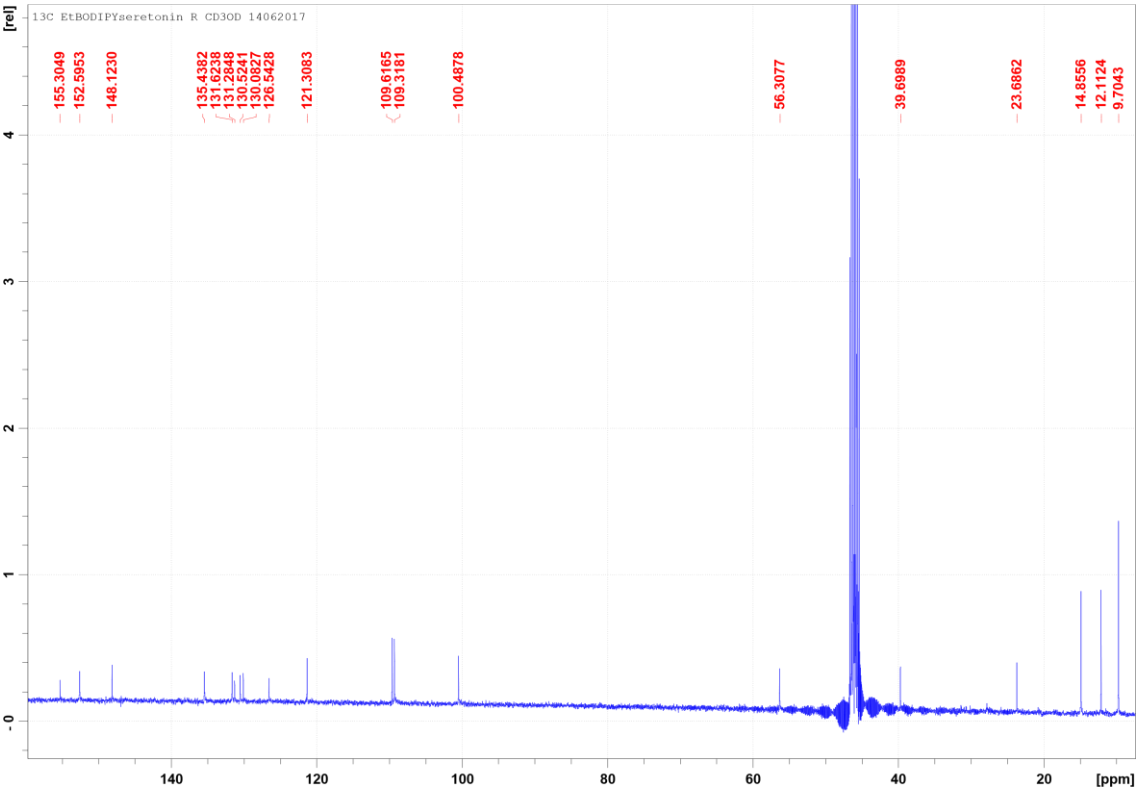

Figure 24. ^{13}C (101 MHz, CD_3OD): **14**

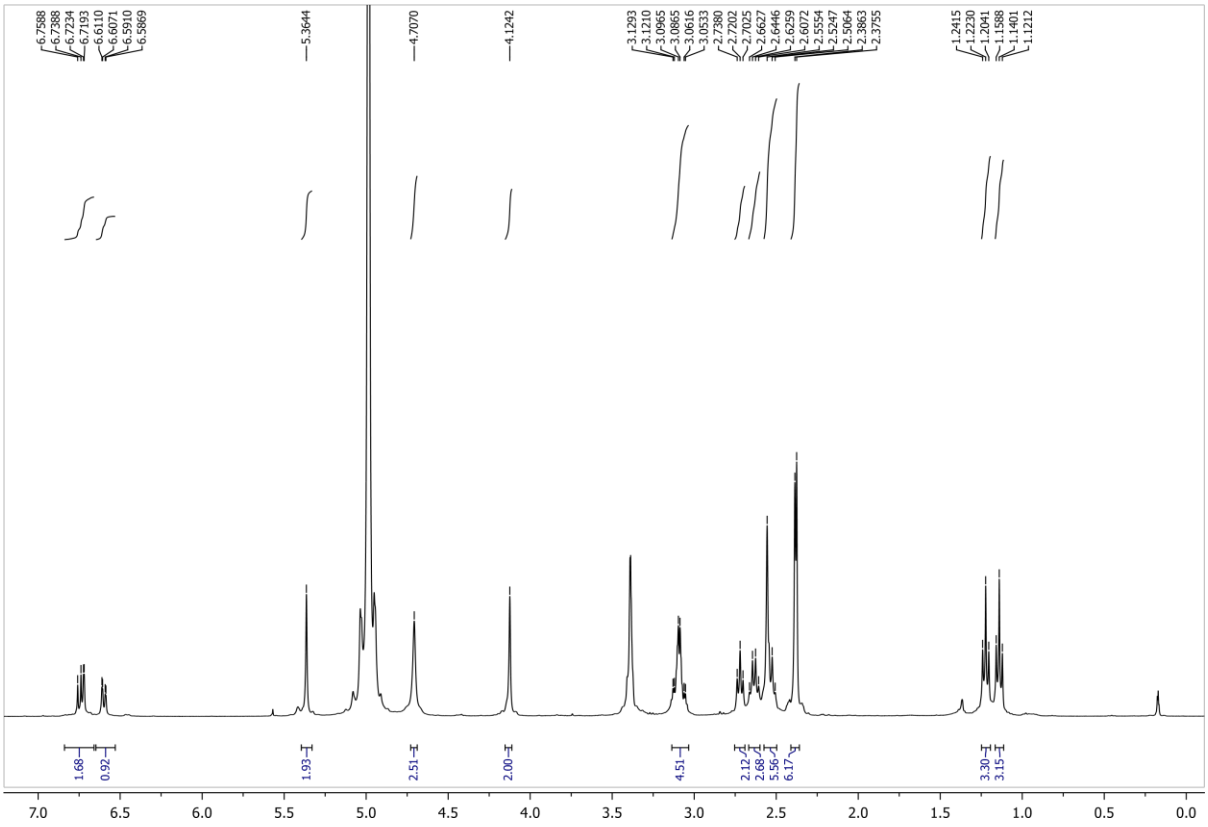

Figure 25. ^{1}H (400 MHz, CD_3OD): **15**

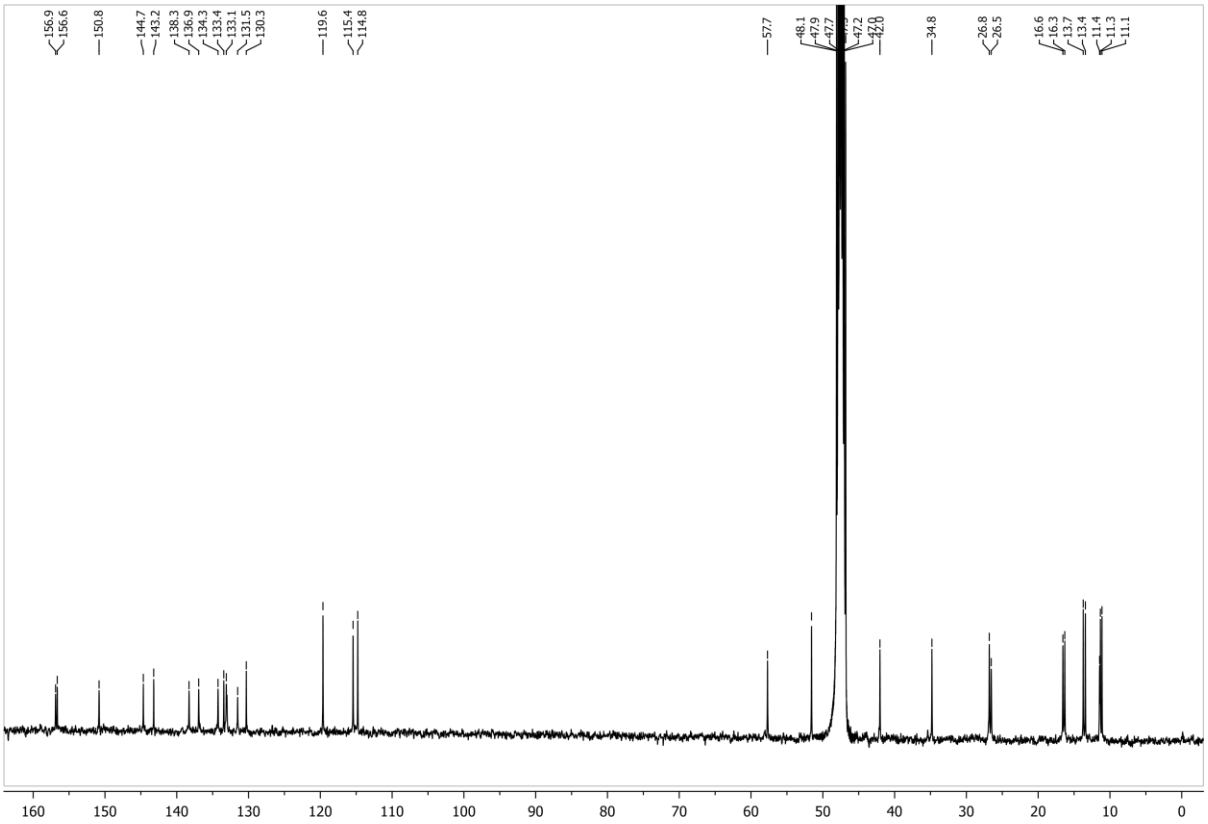

Figure 26. ^{13}C (101 MHz, CD_3OD): **15**

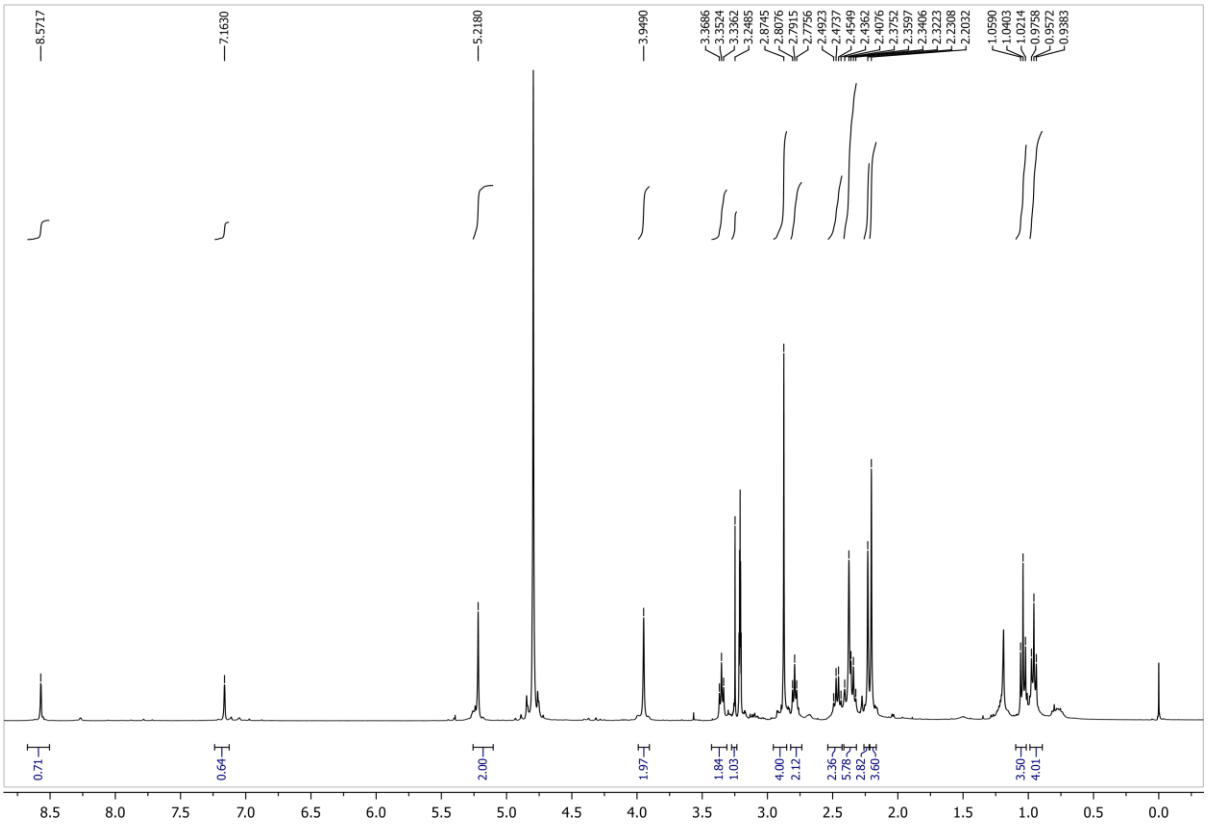

Figure 27. ^{1}H (400 MHz, CD_3OD): **16**

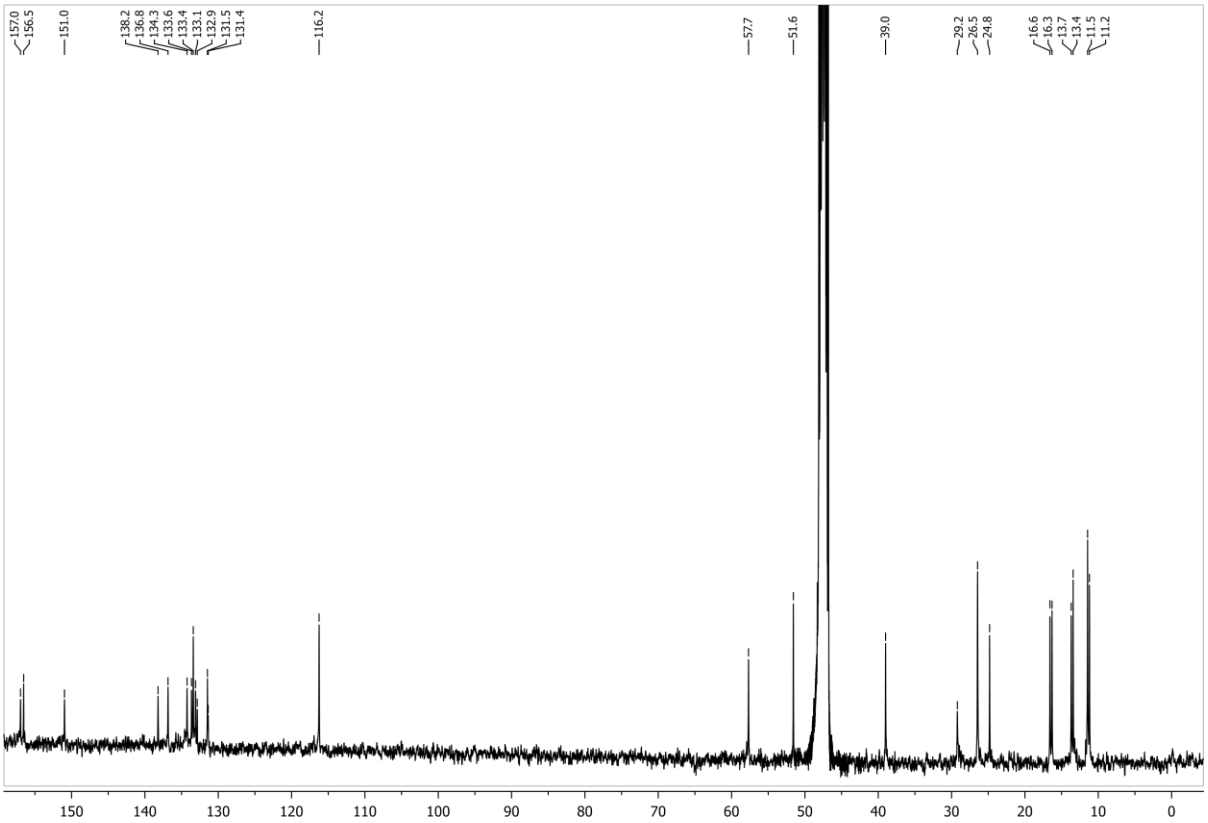

Figure 28. ^{13}C (101 MHz, CD_3OD): **16**

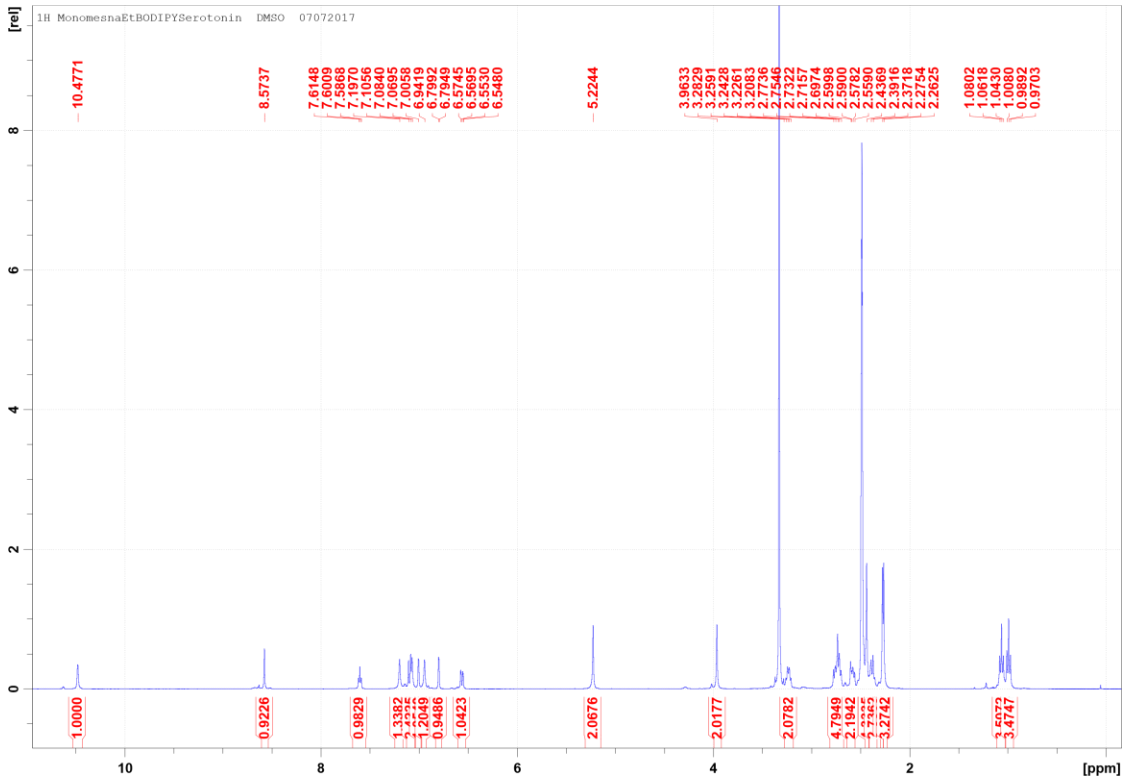

Figure 29. ^{1}H (400 MHz, DMSO-d_6): **17**

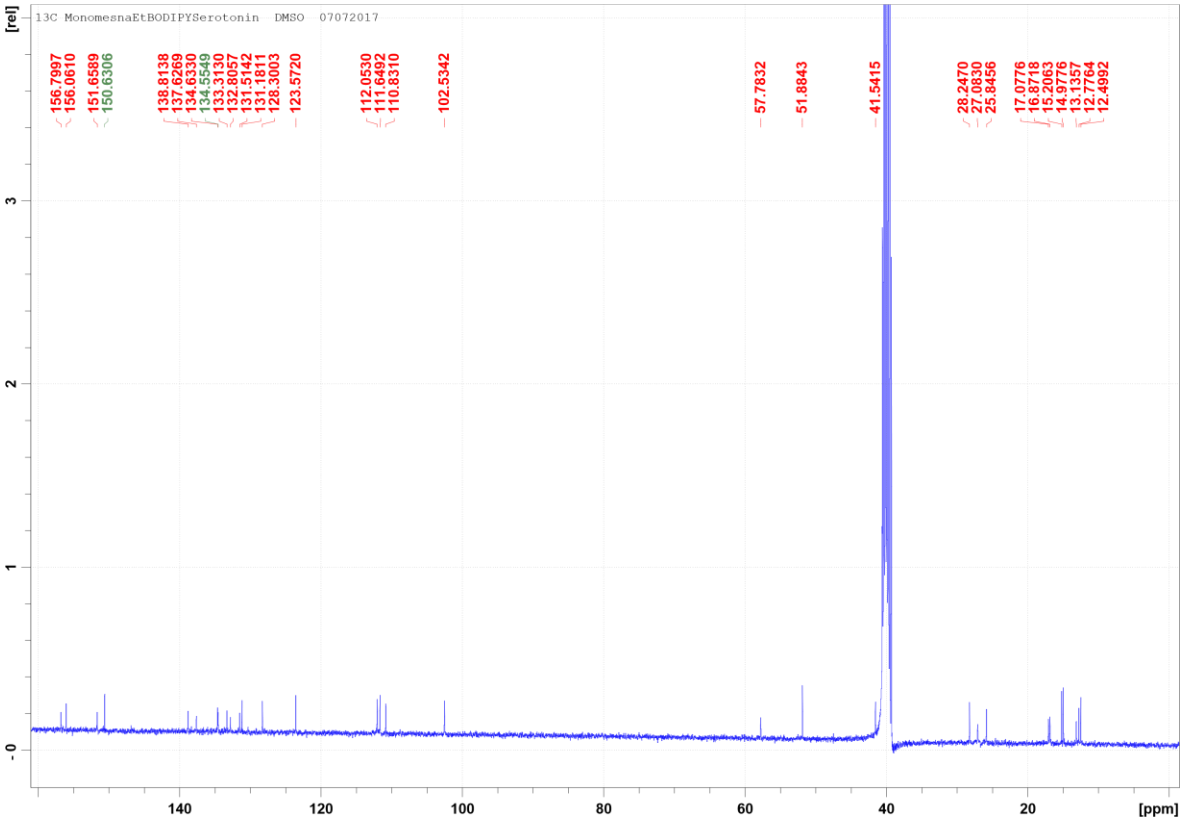

Figure 30. ^{13}C (101 MHz, DMSO-d_6): **17**

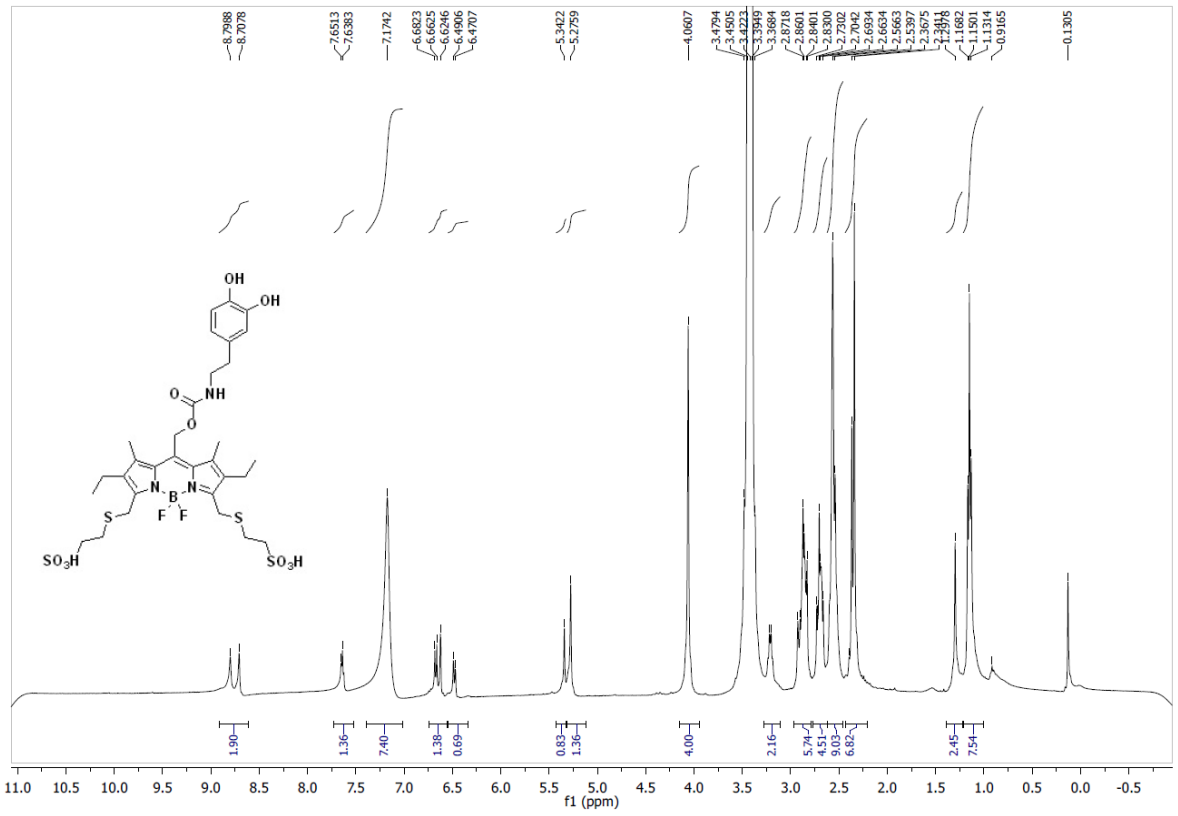

Figure 31. ^{1}H (400 MHz, DMSO-d_6): **18**

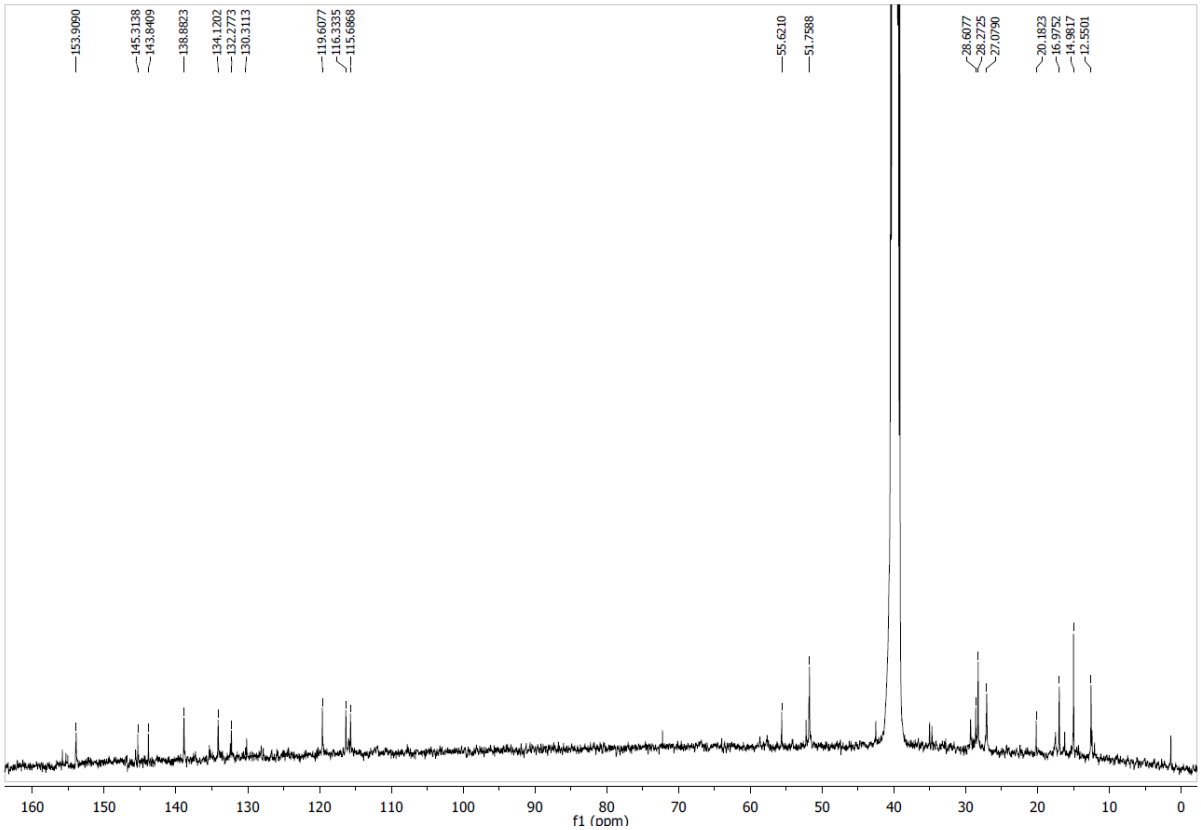

Figure 32. ^{13}C (101 MHz, DMSO-d_6): **18**

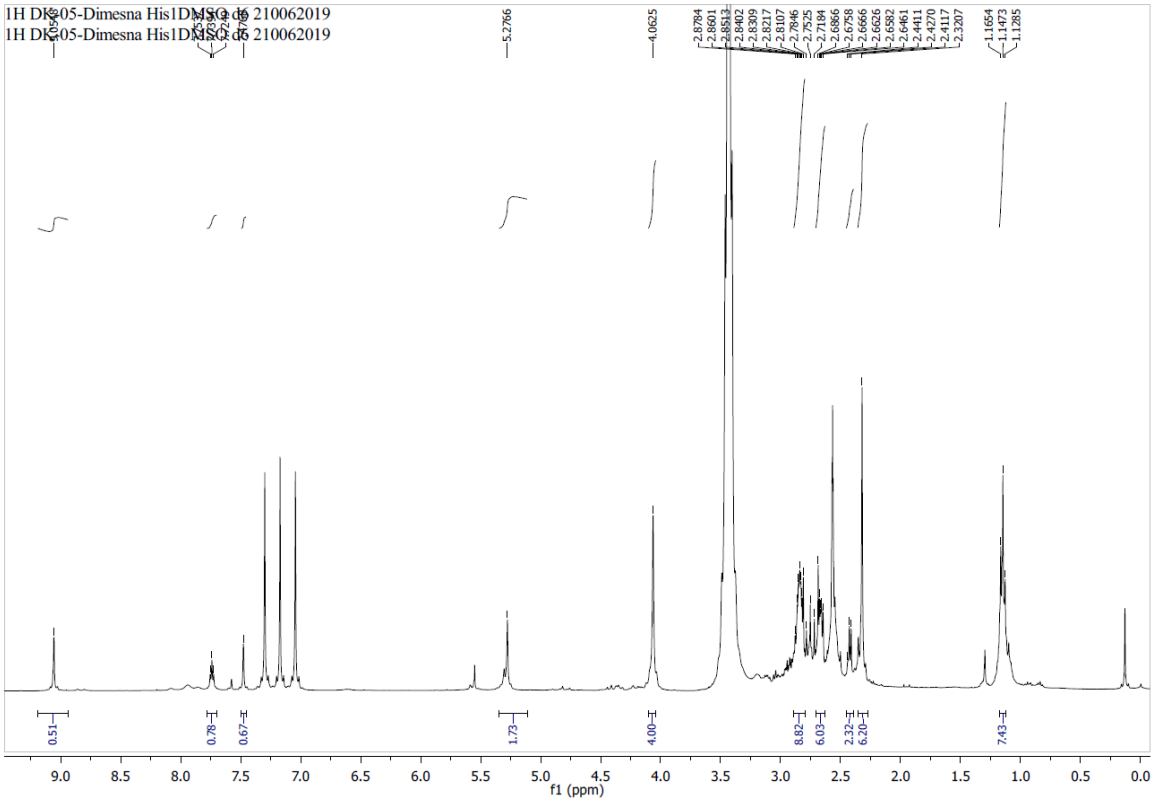

Figure 33. ^{1}H (400 MHz, DMSO-d_6): **19**

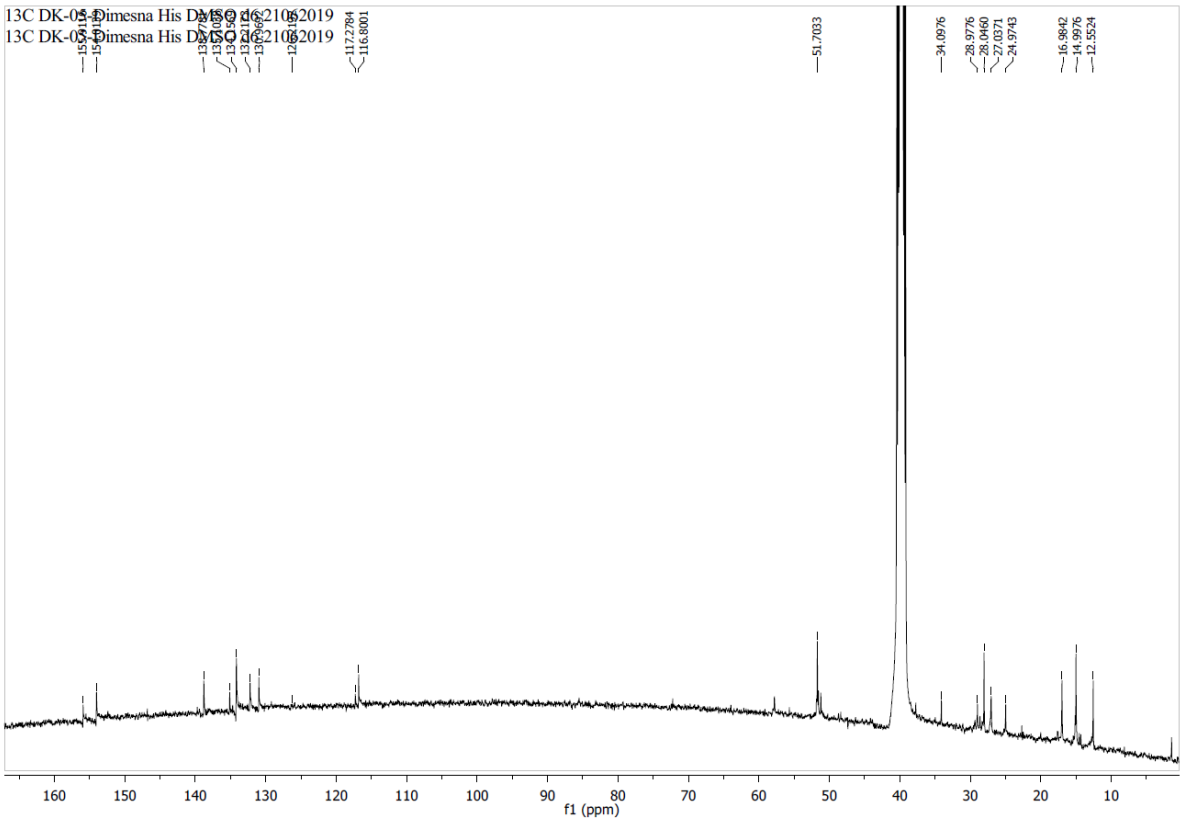

Figure 34. ^{13}C (101 MHz, DMSO-d_6): **19**

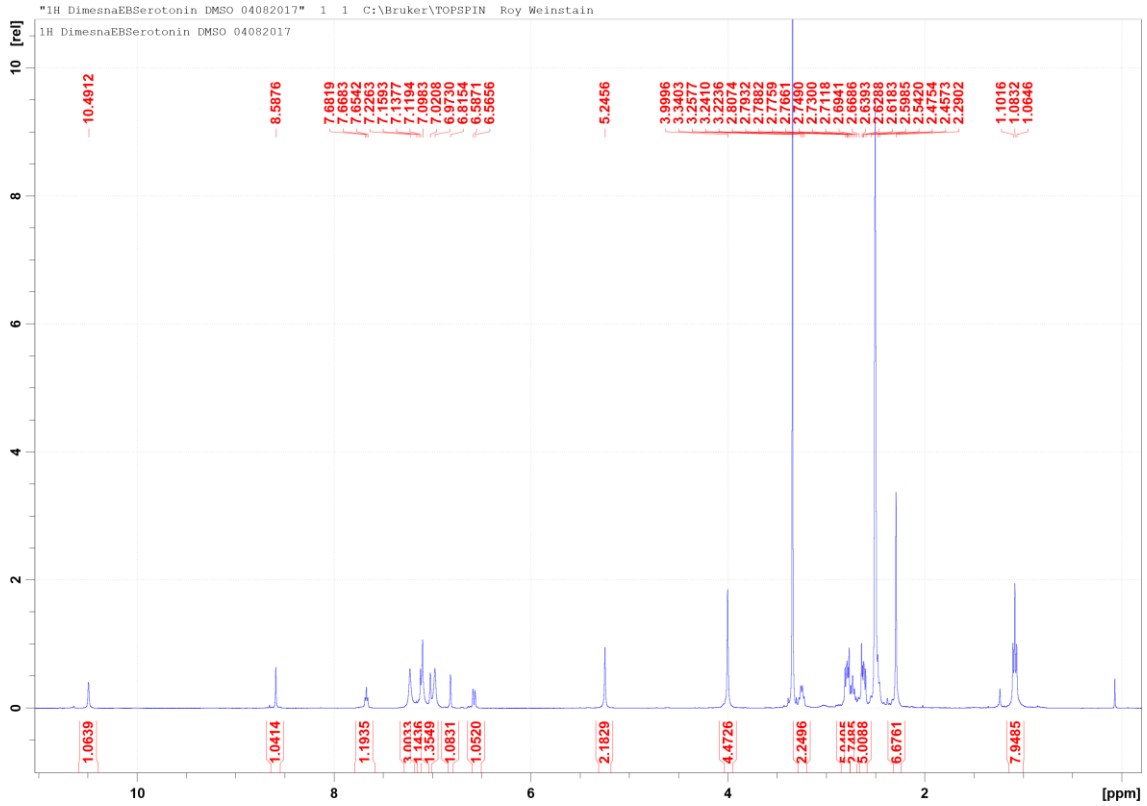

Figure 35. ^{1}H (400 MHz, DMSO-d_6): **20**

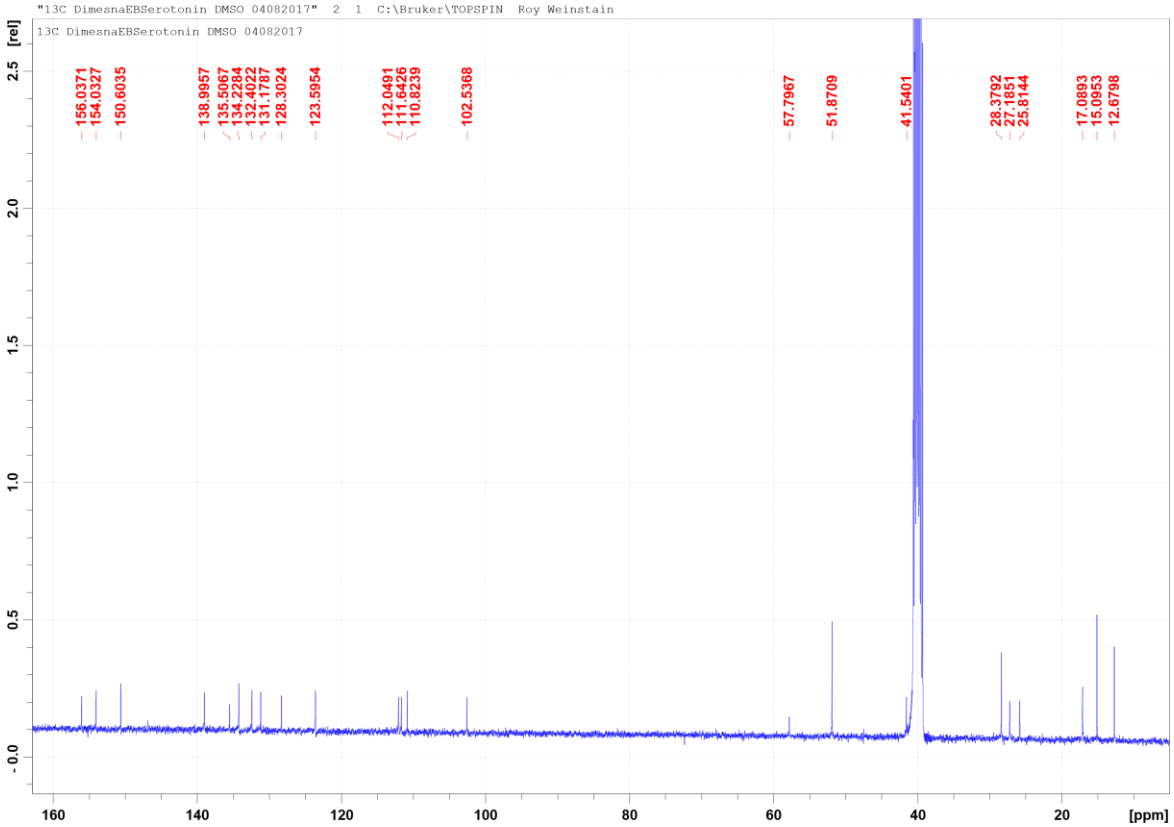

Figure 36. ^{13}C (101 MHz, DMSO-d_6): **20**

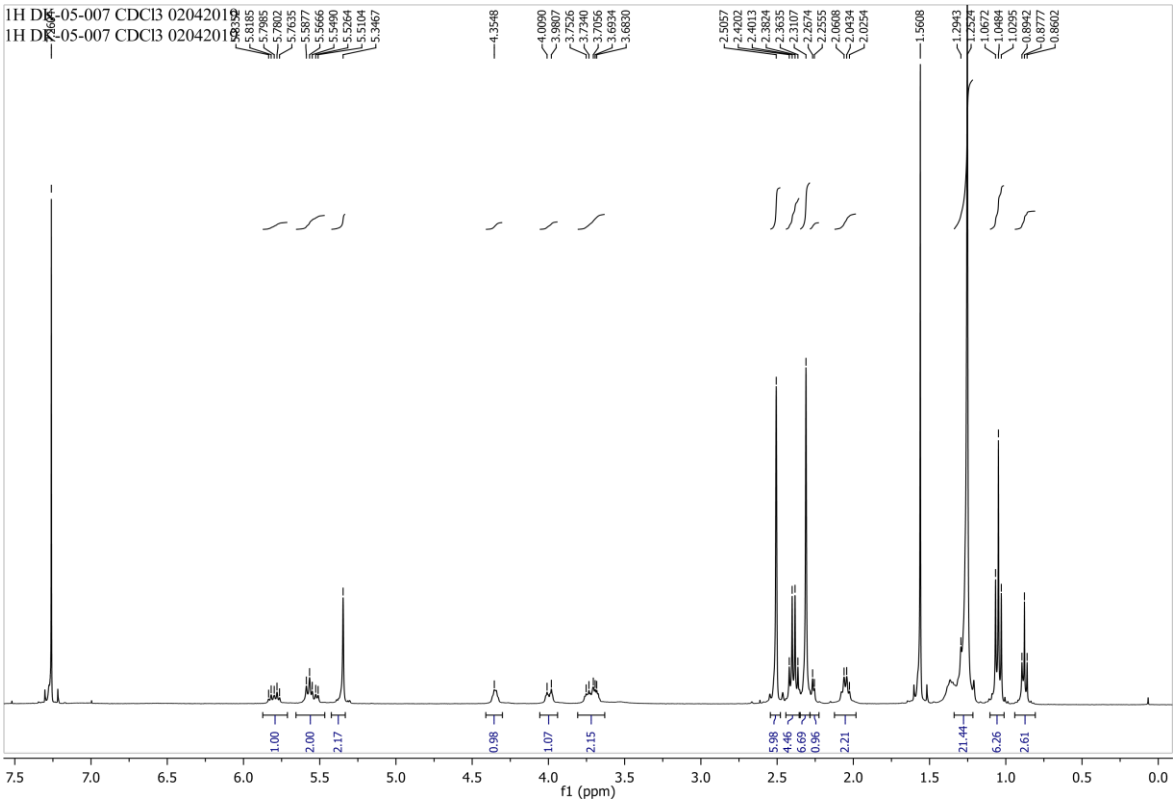

Figure 37. ^{1}H (400 MHz, $CDCl_3$): **21**

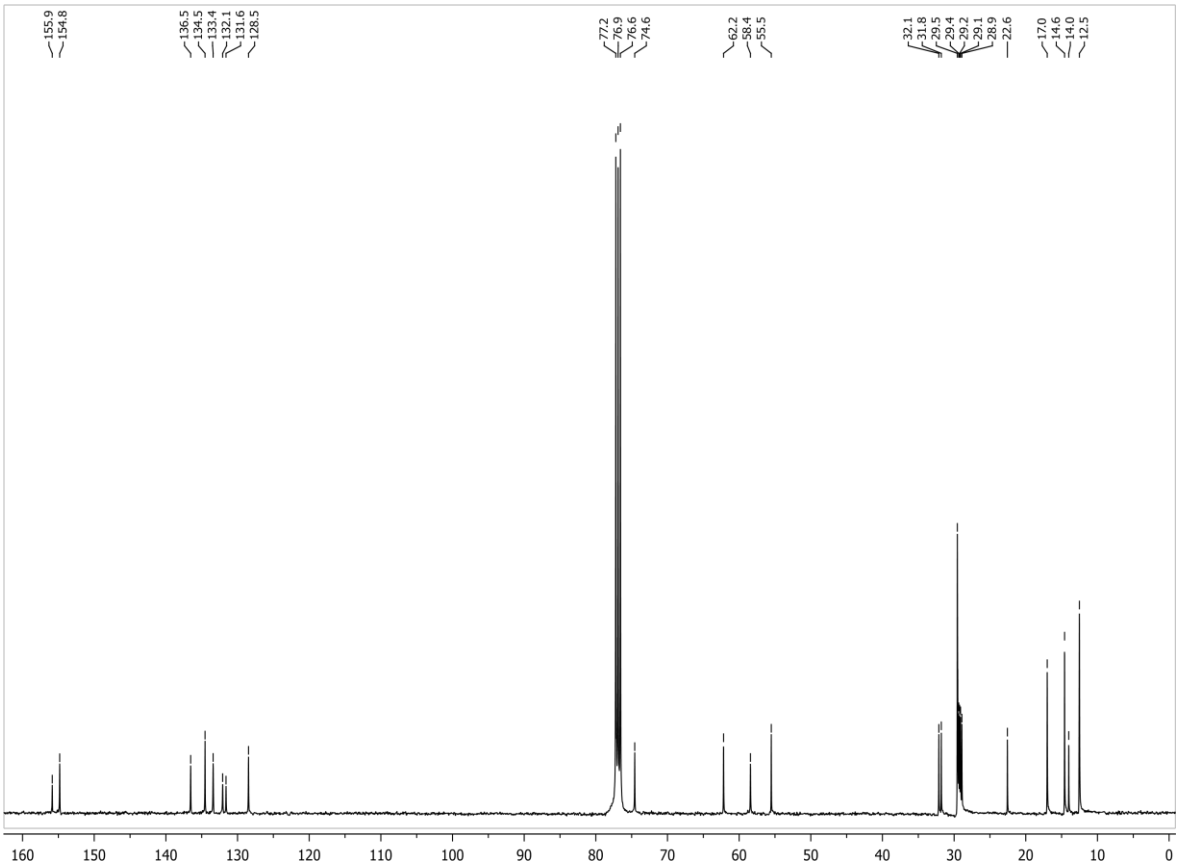

Figure 38. ^{13}C (101 MHz, $CDCl_3$): **21**

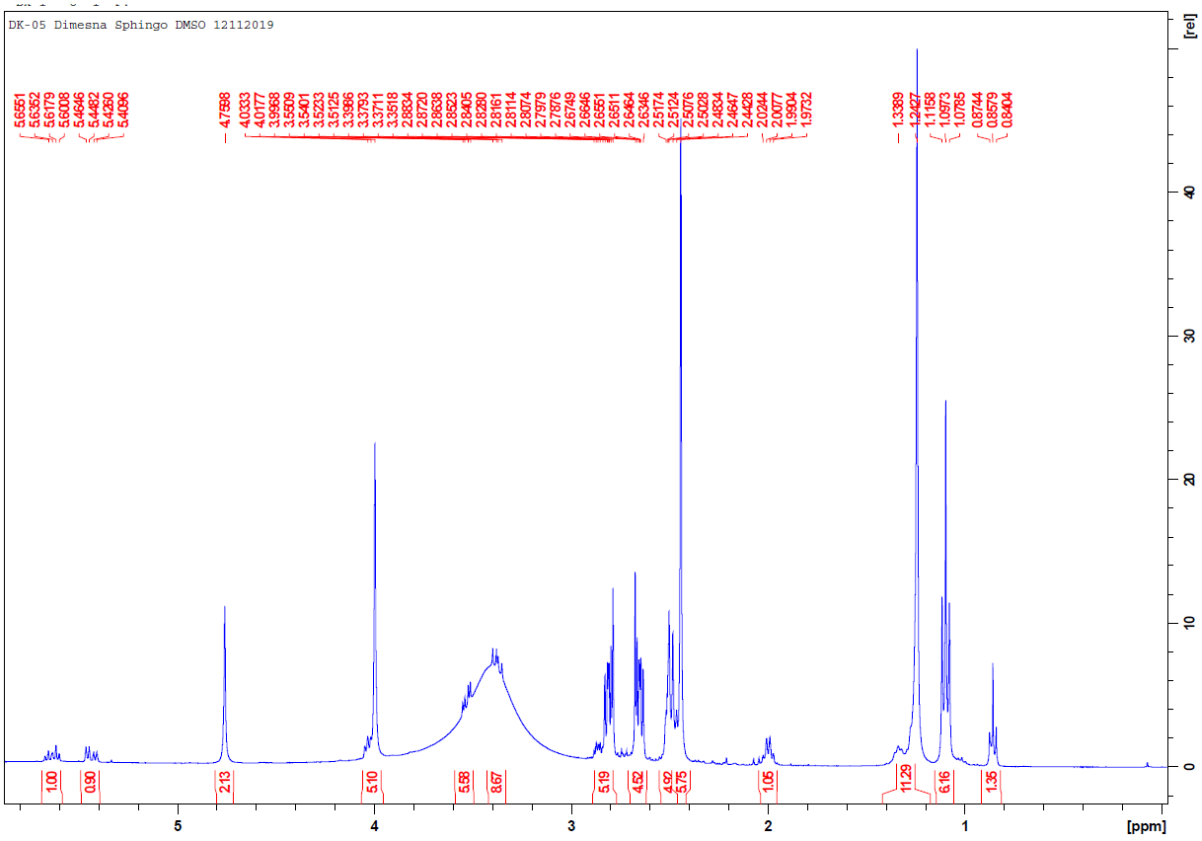

Figure 39. ^{1}H (400 MHz, DMSO-d_6): **22**

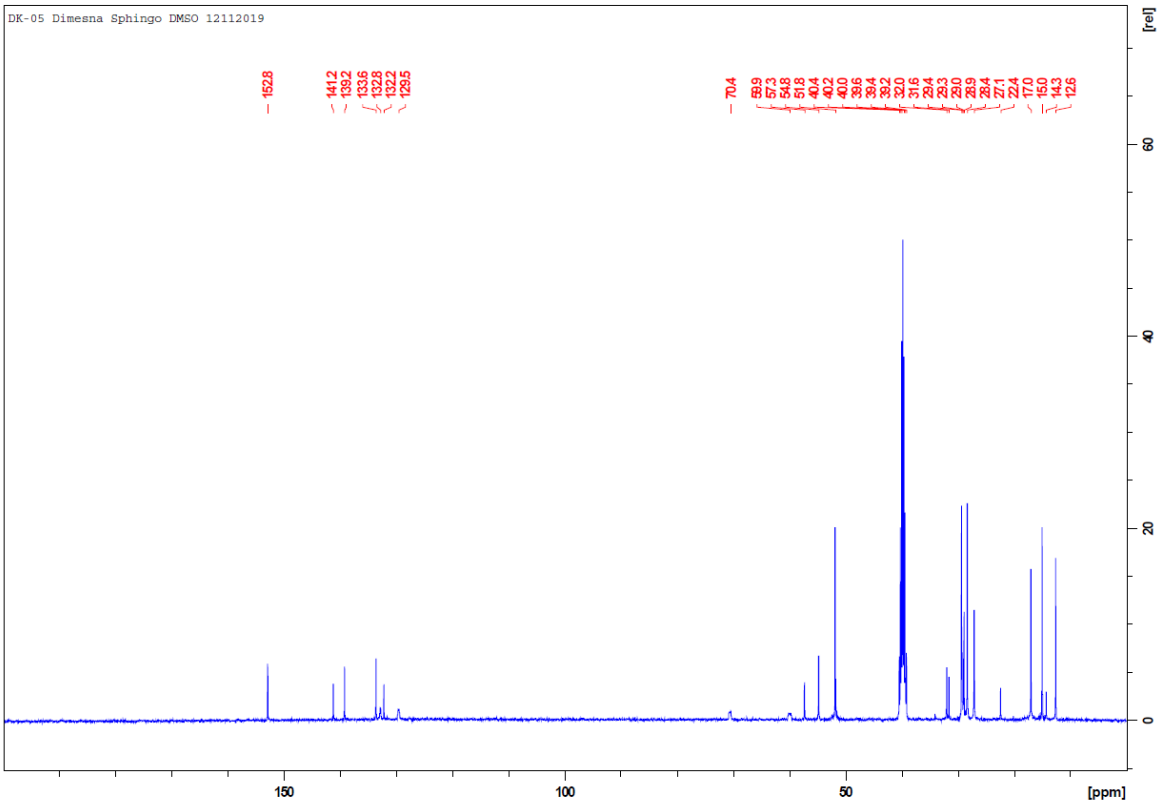

Figure 40. ^{13}C (101 MHz, DMSO-d_6): **22**