Supporting Information

Novel strategies for the synthesis of unsymmetrical glycosyl disulfides

Goreti Ribeiro Morais,* Bradley Springett, Martin Pauze, Lisa Schröder, Matthew Northop, Robert A Falconer*

Institute of Cancer Therapeutics, Life Sciences School, University of Bradford, Bradford, UK

E-Mail: r.a.falconer1@bradford.ac.uk; Gribeiro@bradford.ac.uk

General methods - NMR spectra for compounds **6b** and **6c** were generated on a JEOL ECA-60. NMR spectra for compounds **6a**, **7a-7f**, **9a**, **9e-9g** were generated on a Bruker AMX 400. Compounds **9b-9d** have been reported previously (*Tetrahedron Lett*. 2007, 48, 7637-7641).

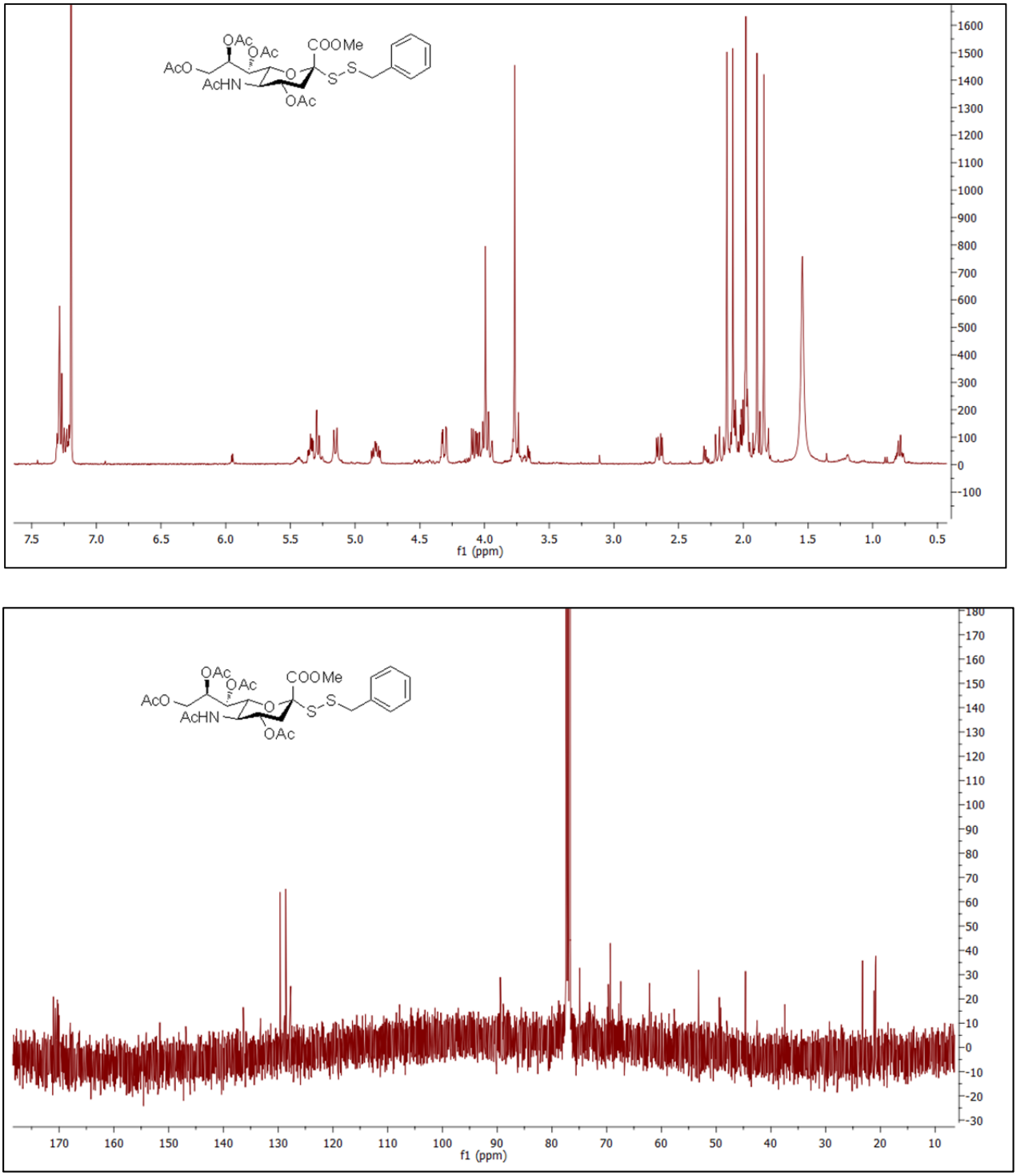
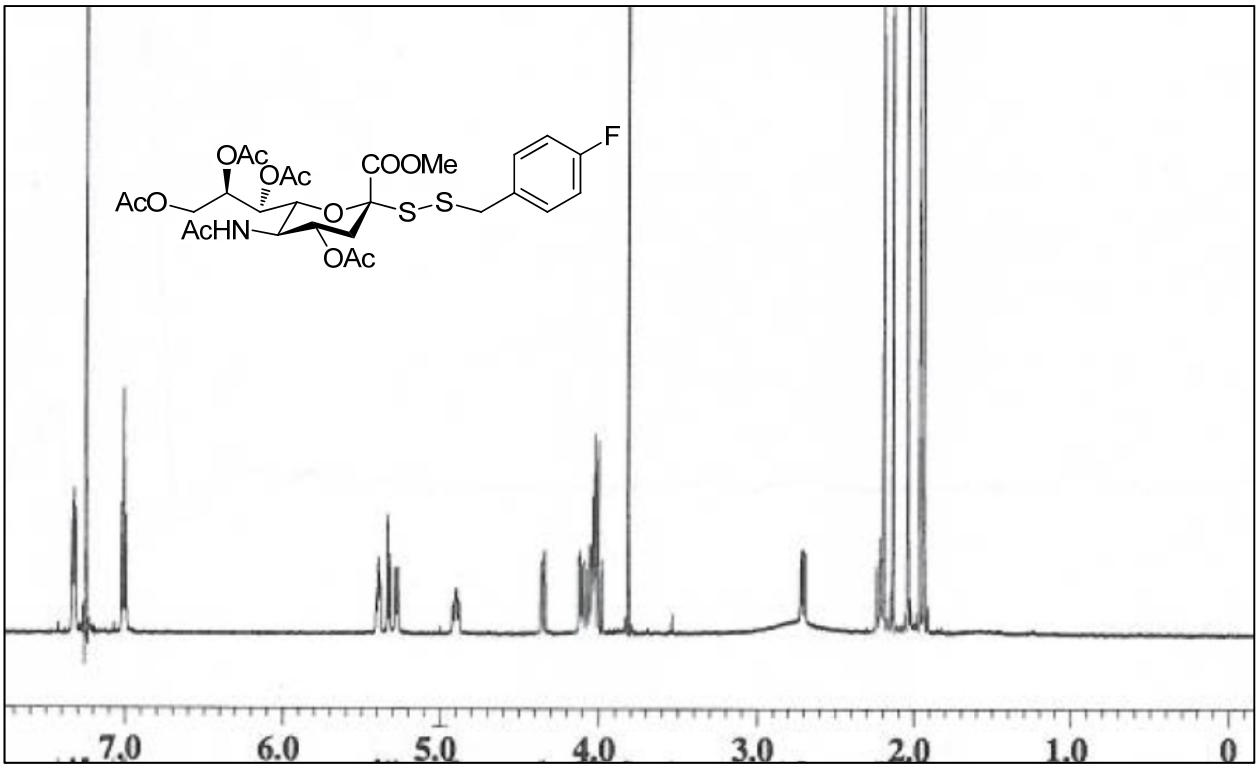


Figure 1. ^{1}H and ^{13}C NMR spectra for compound **6a**.



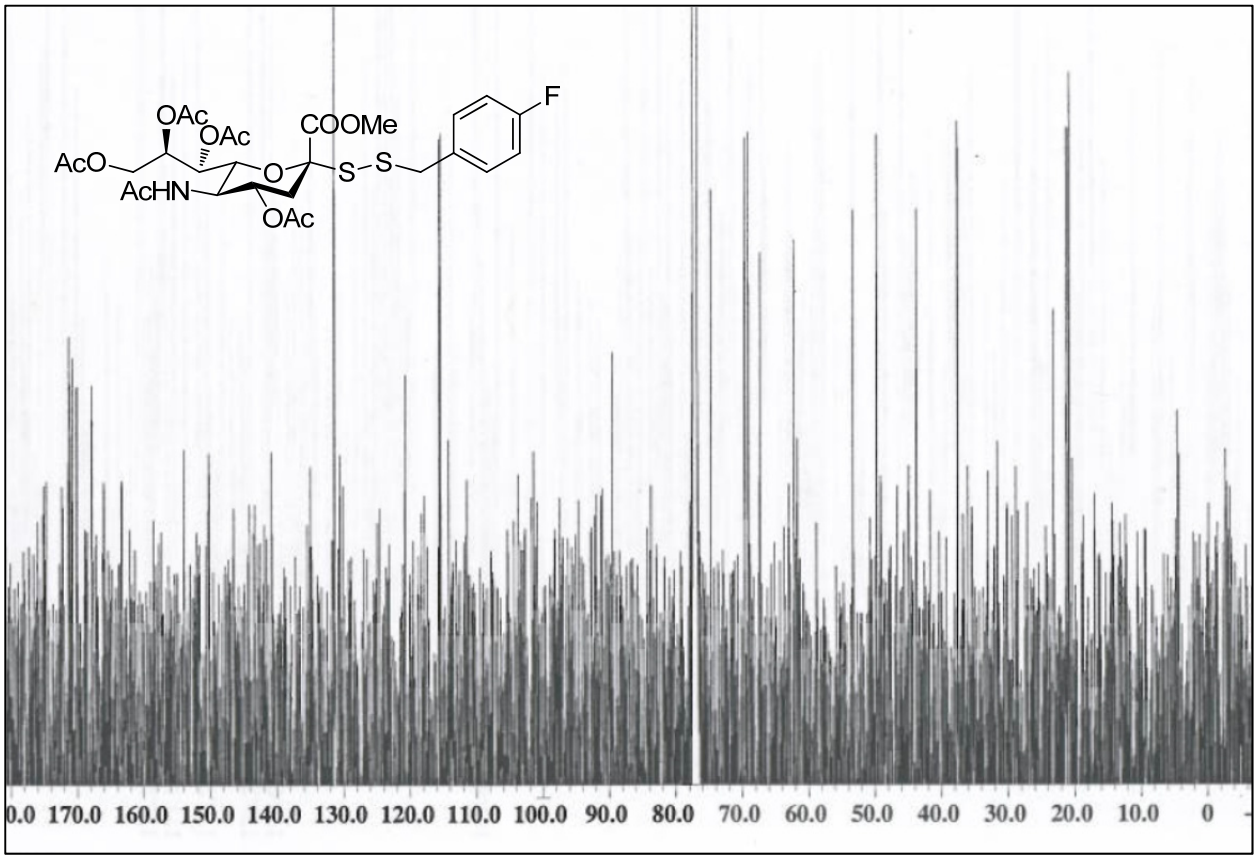


Figure 2. ^{1}H and ^{13}C NMR spectra for compound **6b**.

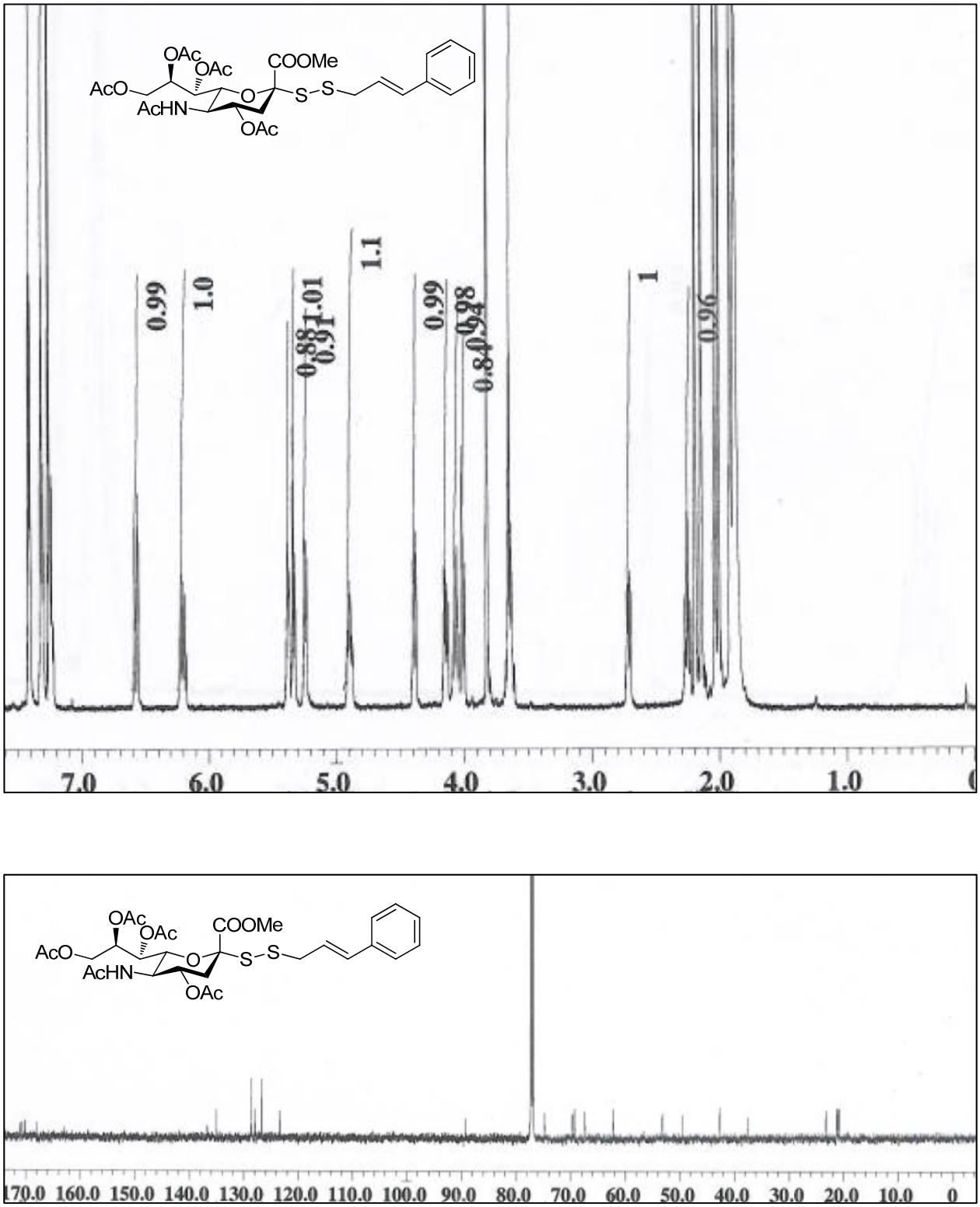


Figure 3. ^{1}H and ^{13}C NMR spectra for compound **6c**.

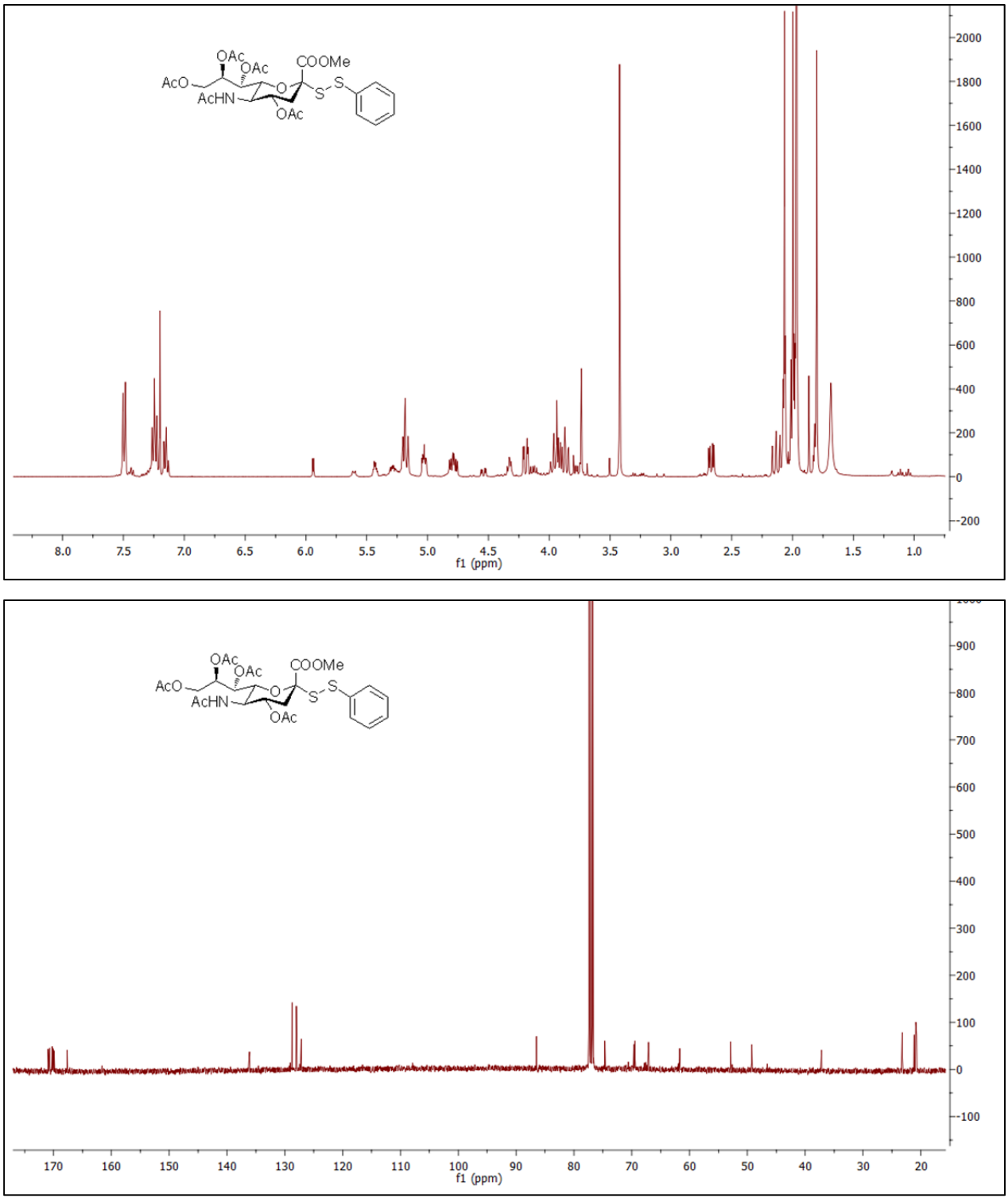


Figure 4. ^{1}H and ^{13}C NMR spectra for compound **7a**.

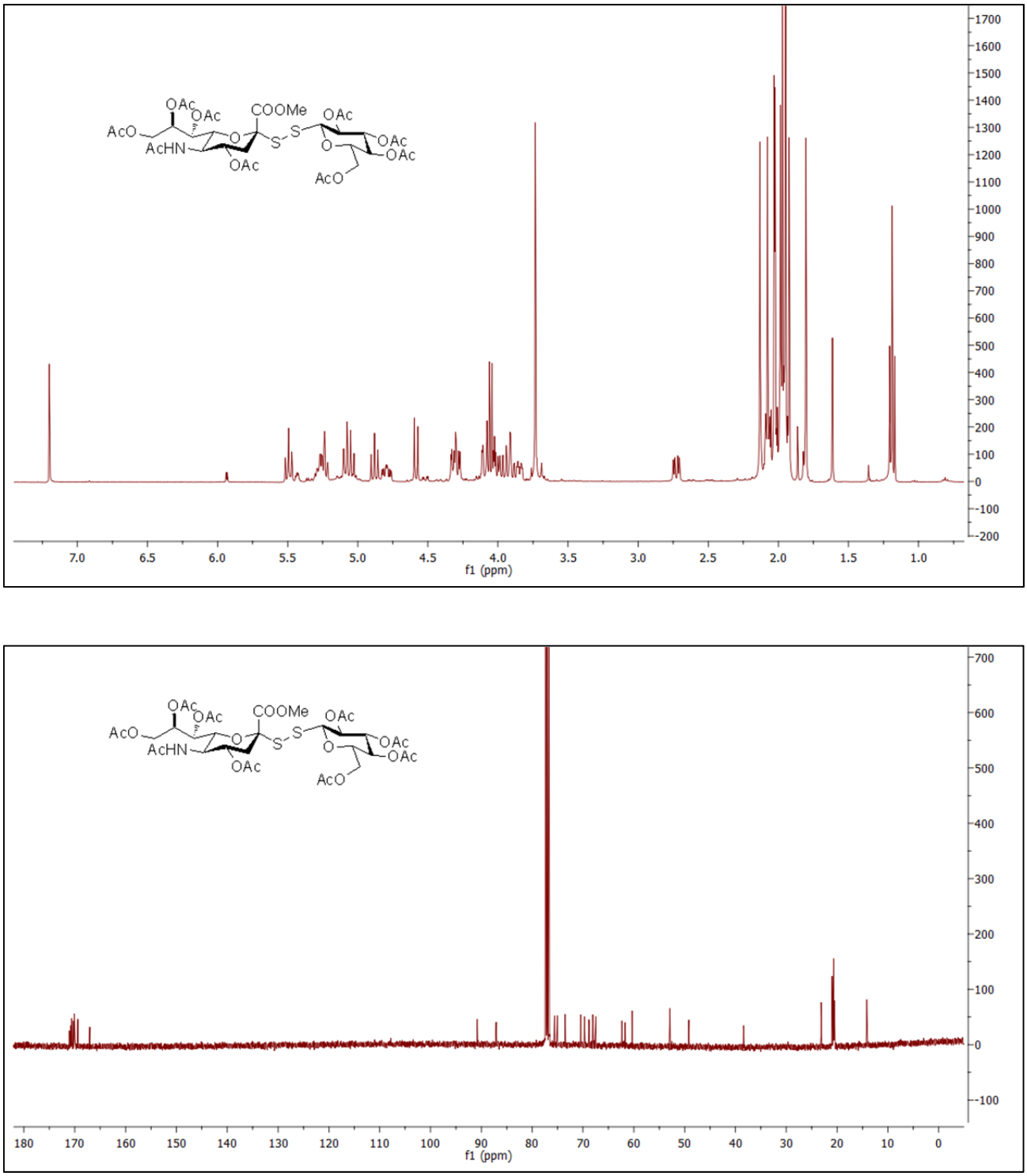


Figure 5. ^{1}H and ^{13}C NMR spectra for compound **7b**.

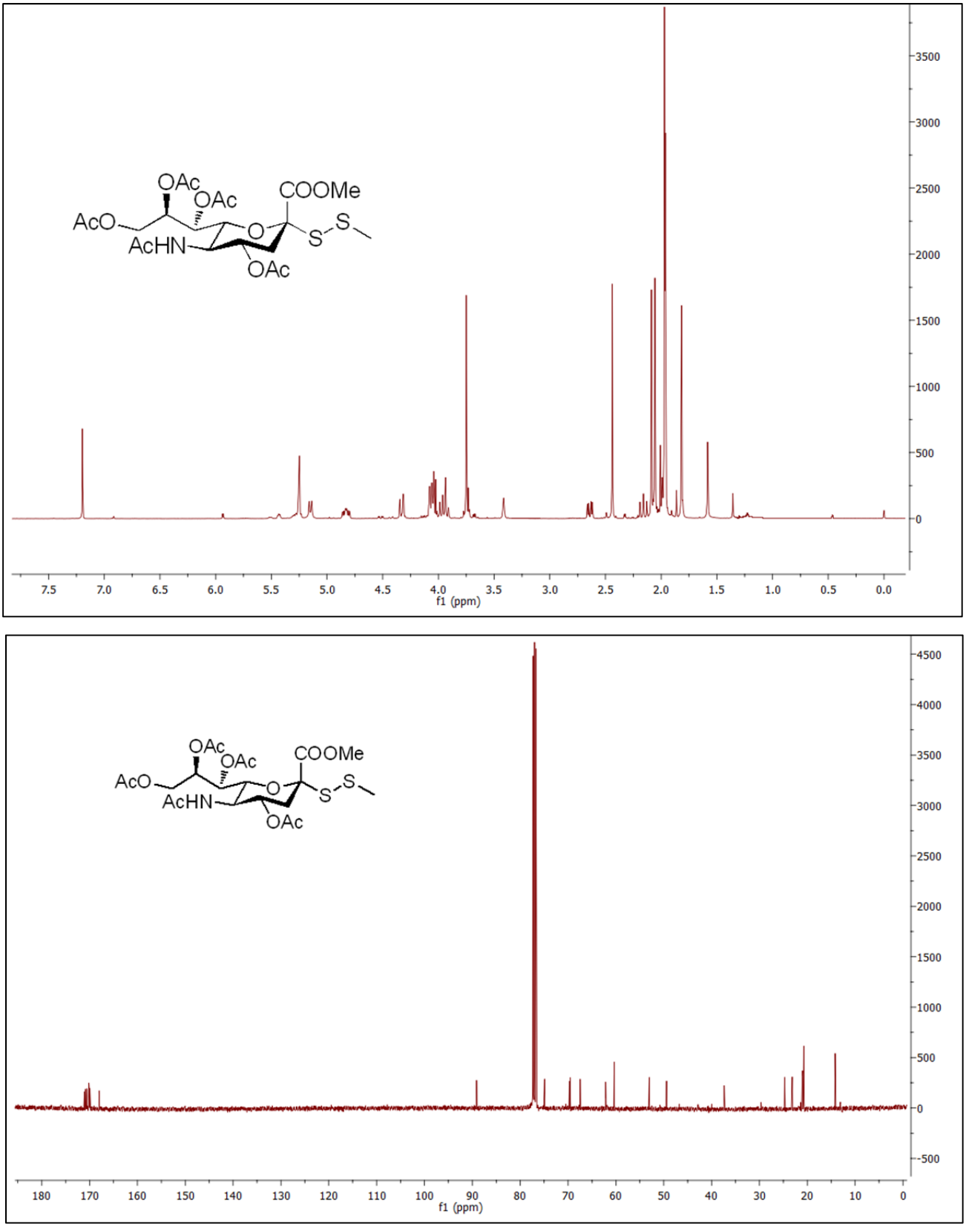


Figure 6. ^{1}H and ^{13}C NMR spectra for compound **7c**.

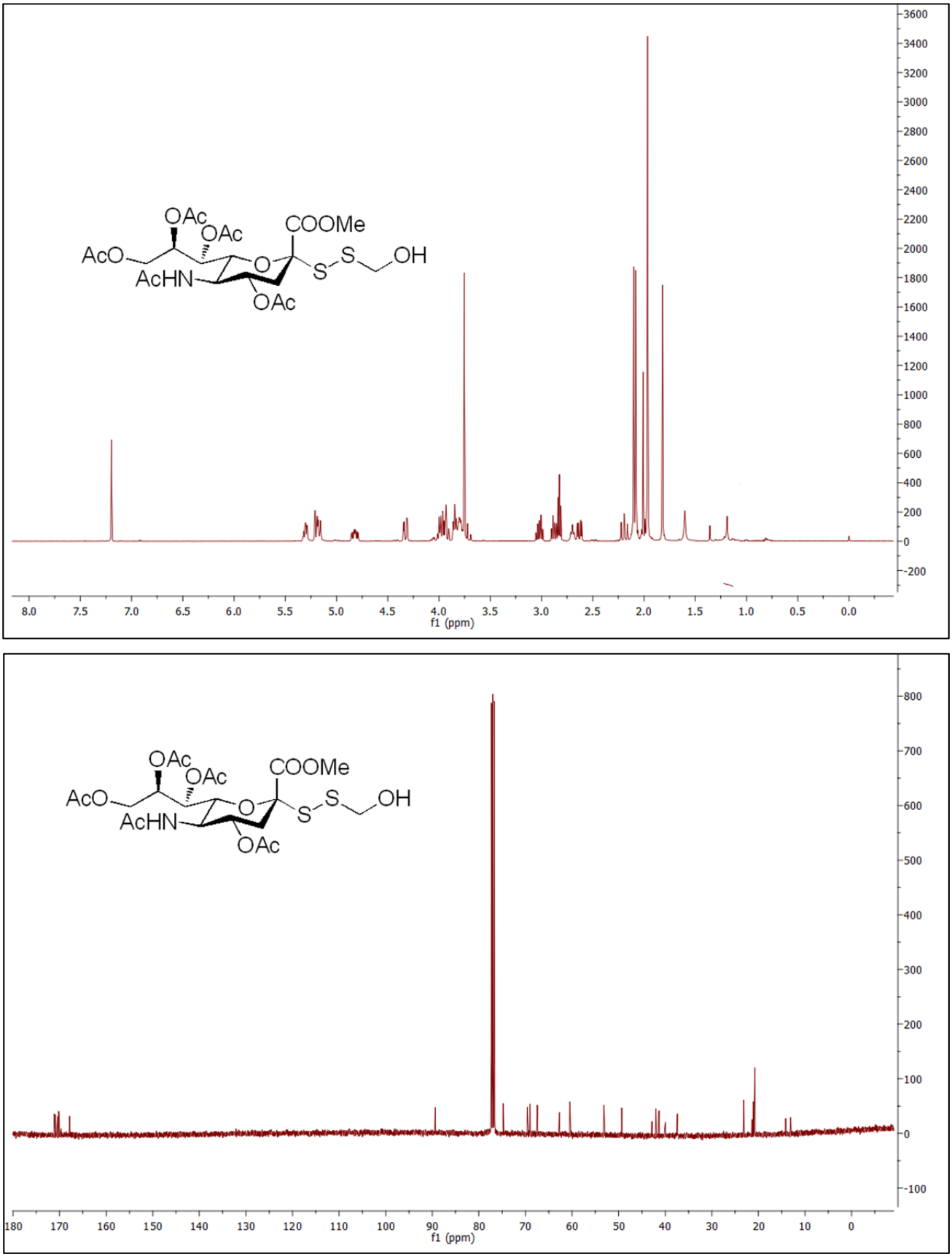
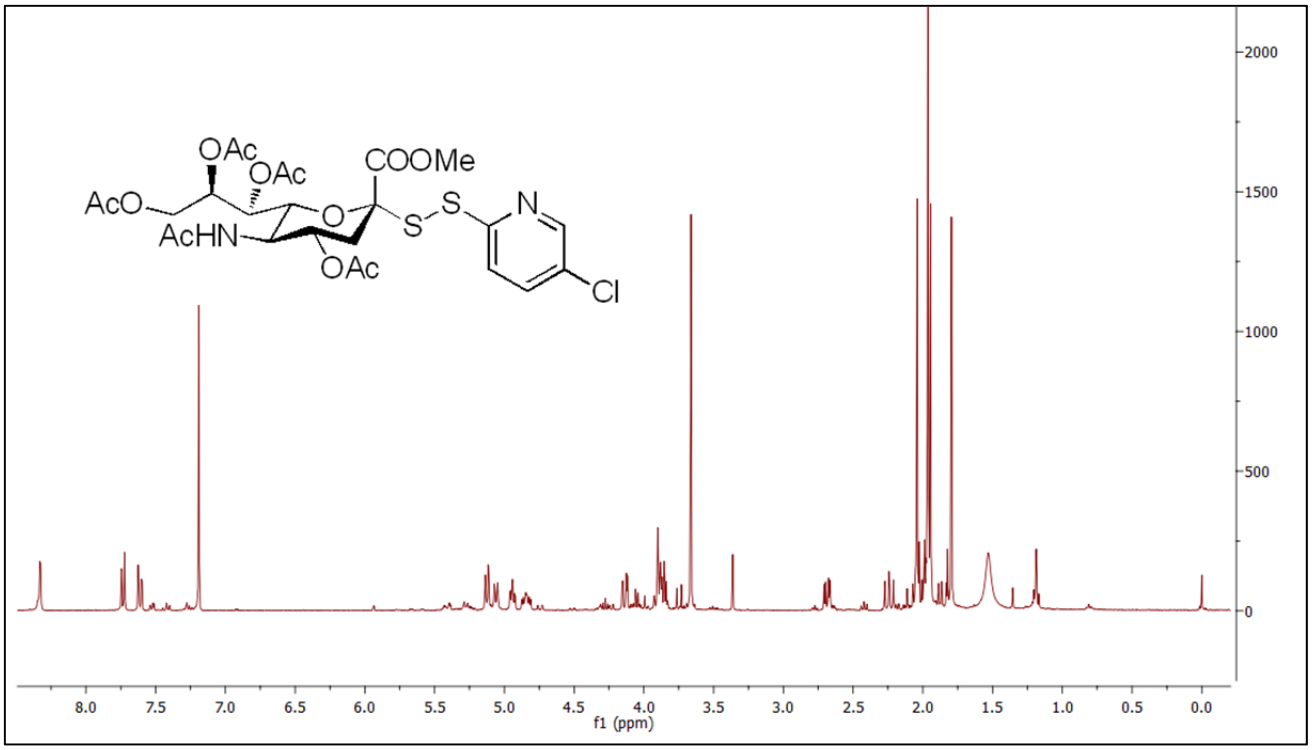


Figure 7. ^{1}H and ^{13}C NMR spectra for compound **7d.**



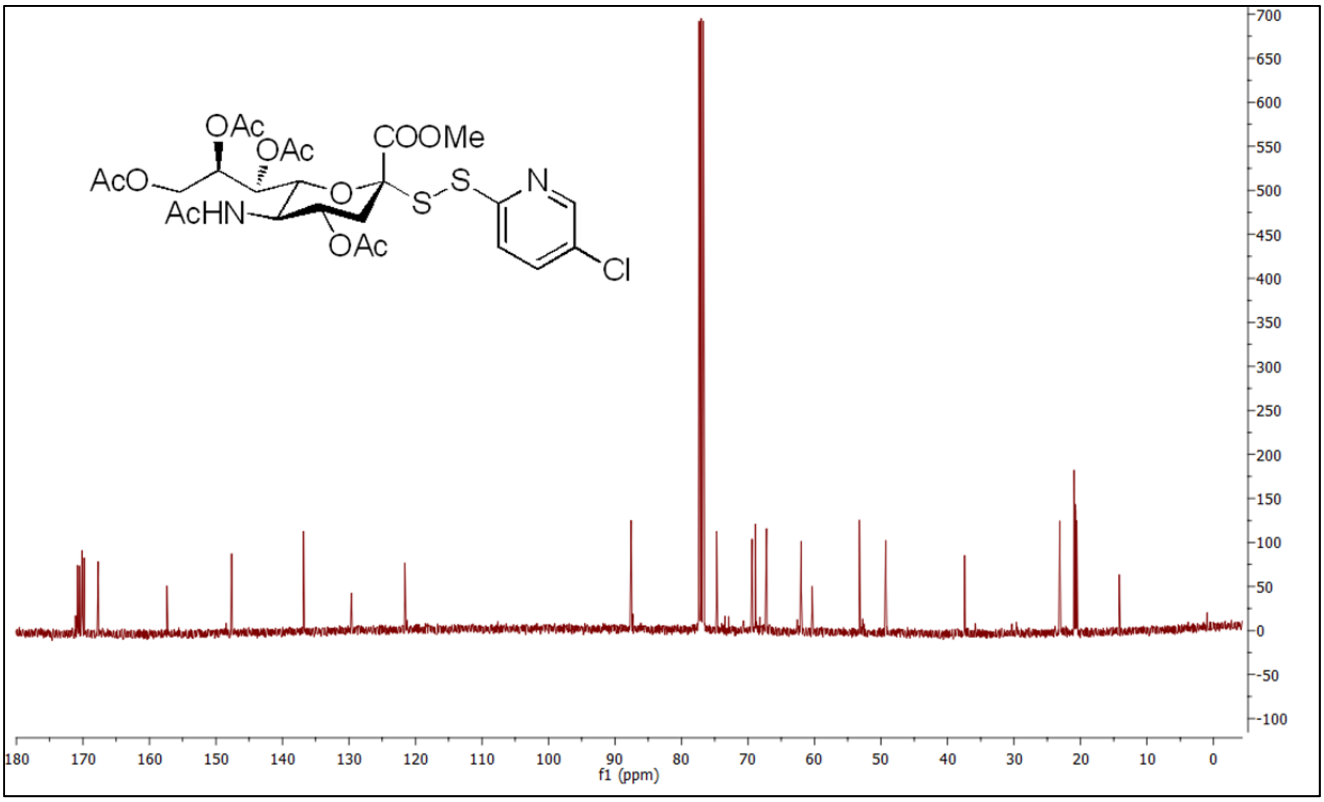


Figure 8. ^{1}H and ^{13}C NMR spectra for compound **7e.**

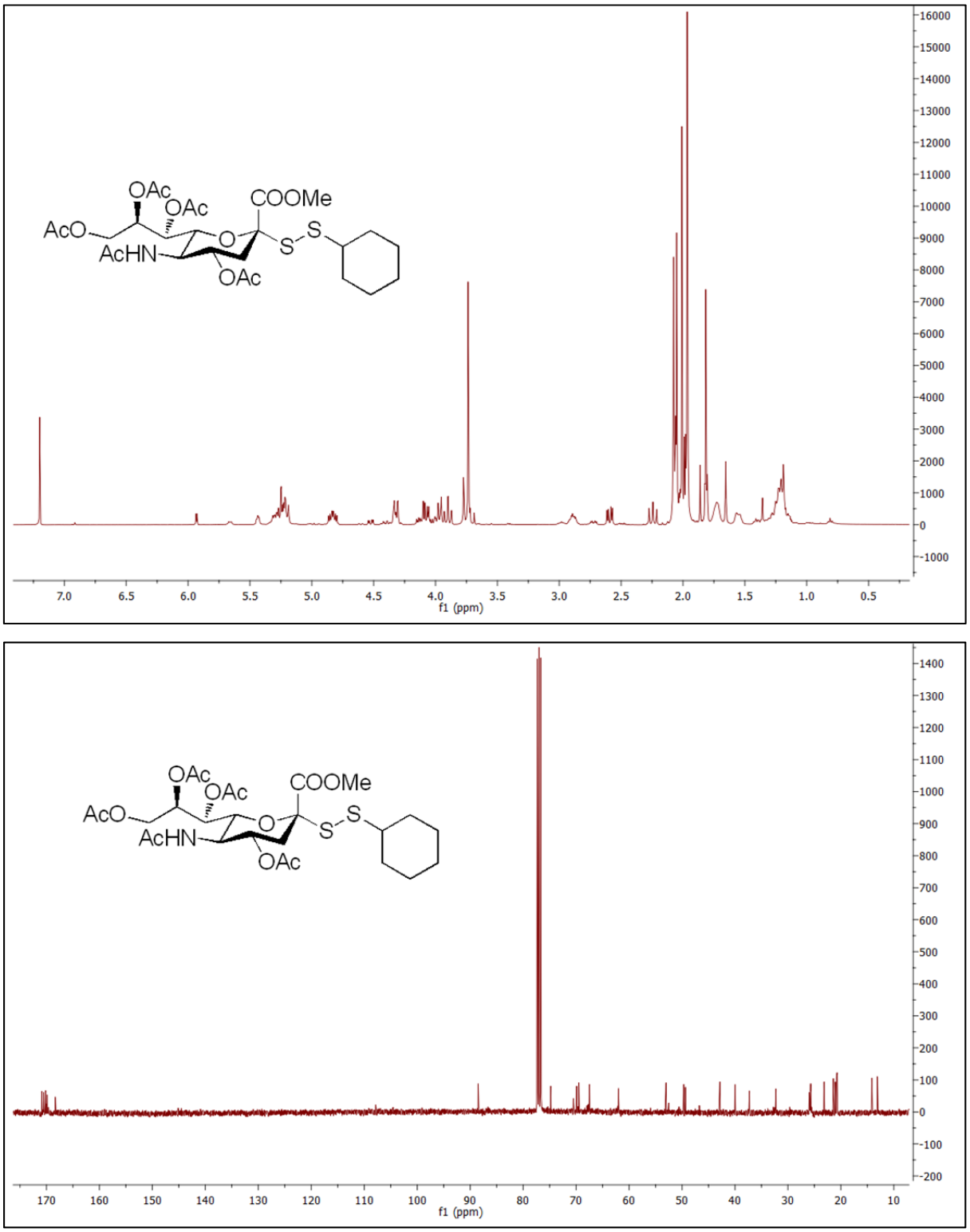


Figure 9. ^{1}H and ^{13}C NMR spectra for compound **7f.**

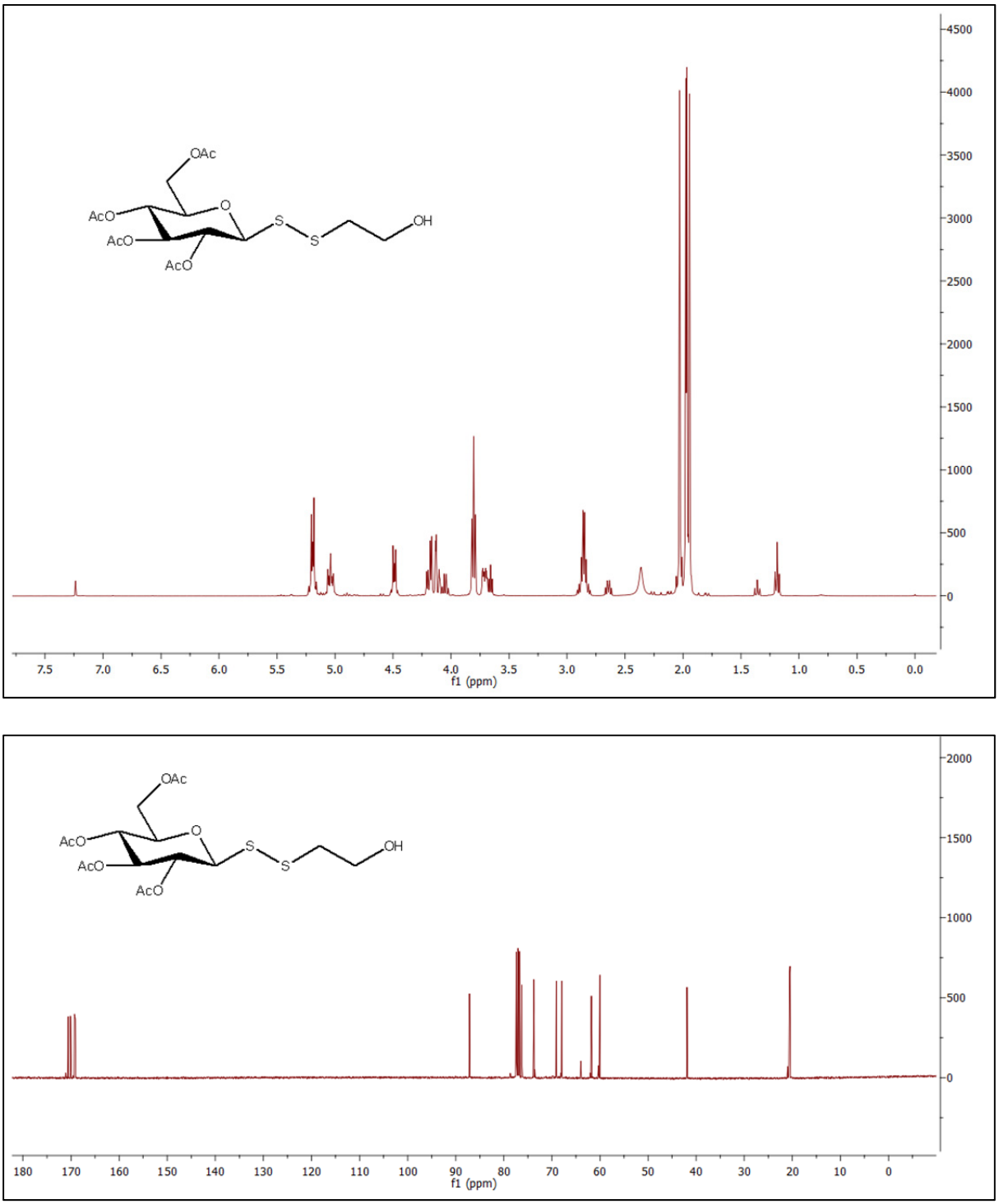


Figure 10. ^{1}H and ^{13}C NMR spectra for compound **9a.**

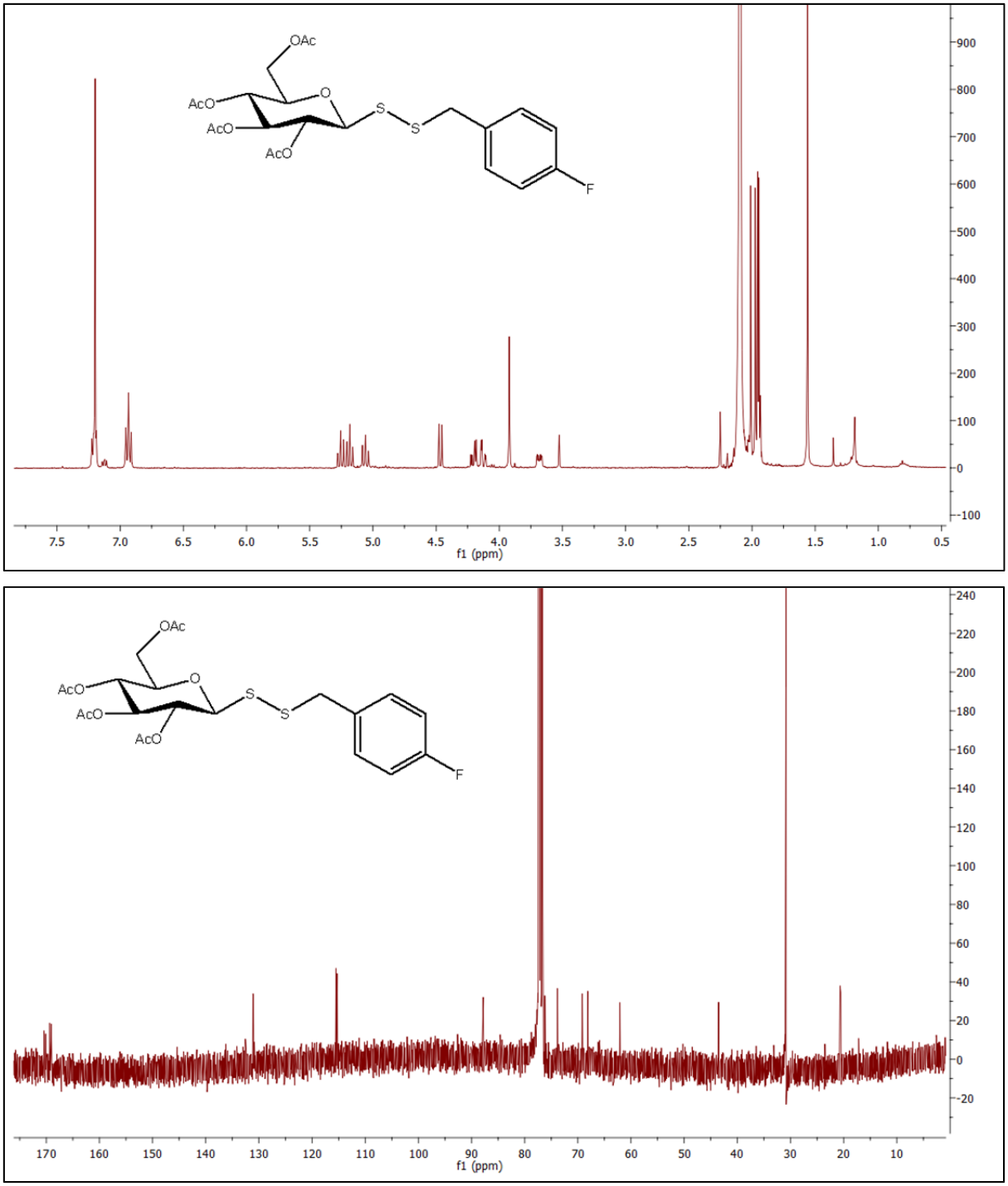
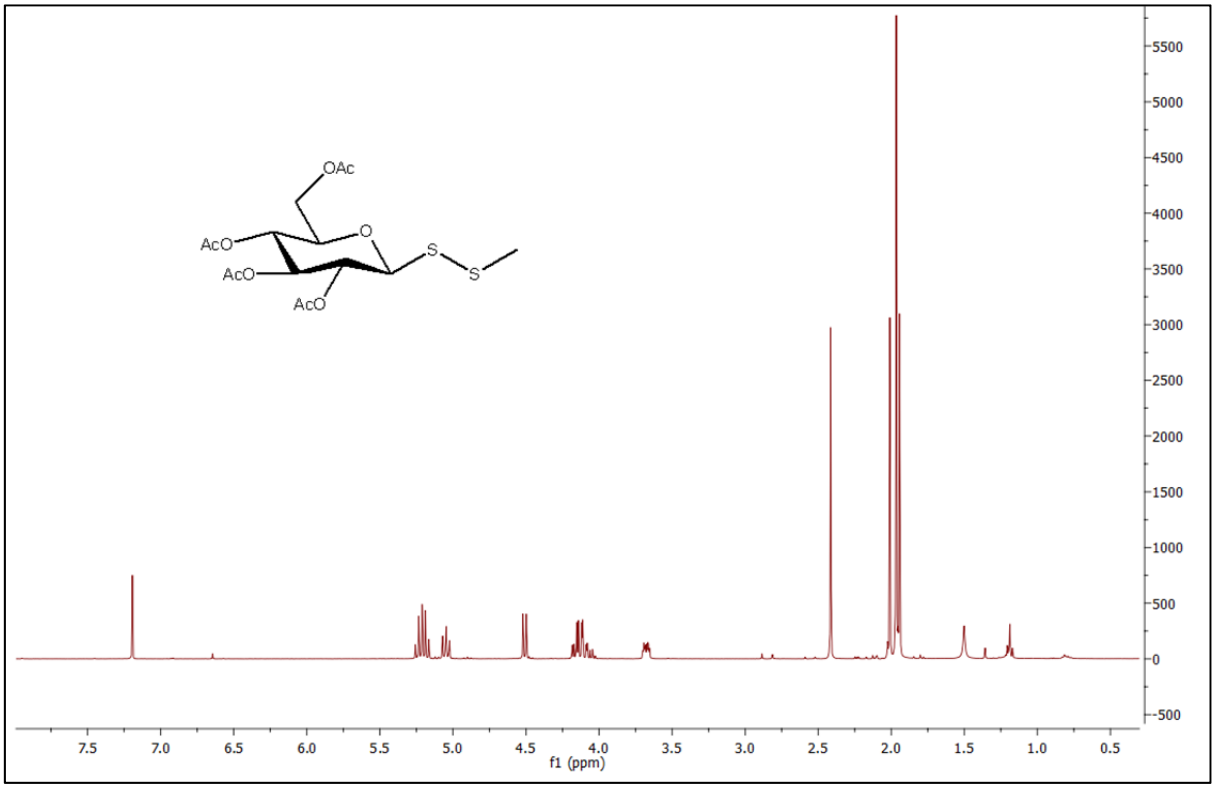


Figure 11. ^{1}H and ^{13}C NMR spectra for compound **9e.** In the ^{1}H NMR spectrum the strong singlet peaks at 1.56 and 2.17 ppm correspond to water and acetone, respectively. In the ^{13}C NMR spectrum the peak at 30.32 ppm corresponds to the methyl carbon of acetone.



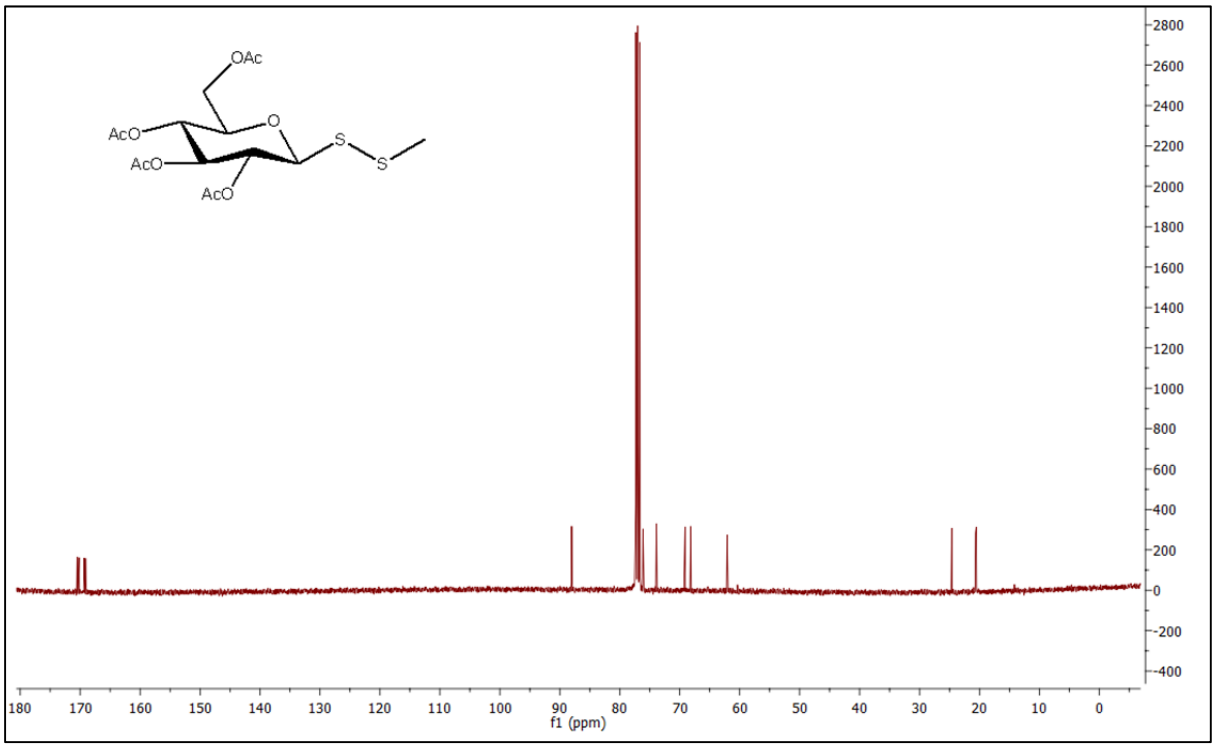


Figure 12. ^{1}H and ^{13}C NMR spectra for compound **9f.**

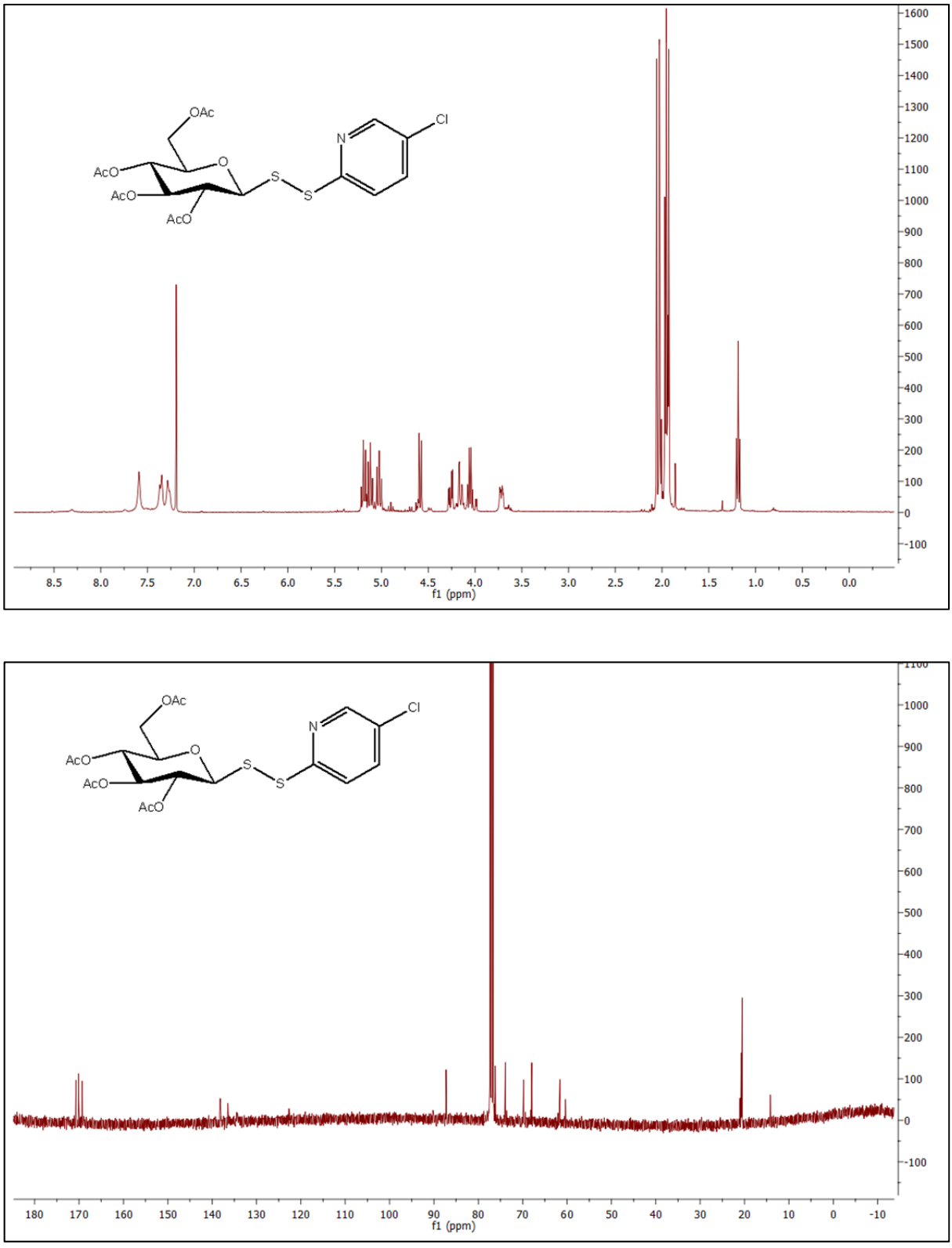


Figure 13. ^{1}H and ^{13}C NMR spectra for compound **9g.**