

## Article

# Synthesis, Biological Evaluation and Stability Studies of some Novel Aza-acridine Aminoderivatives.

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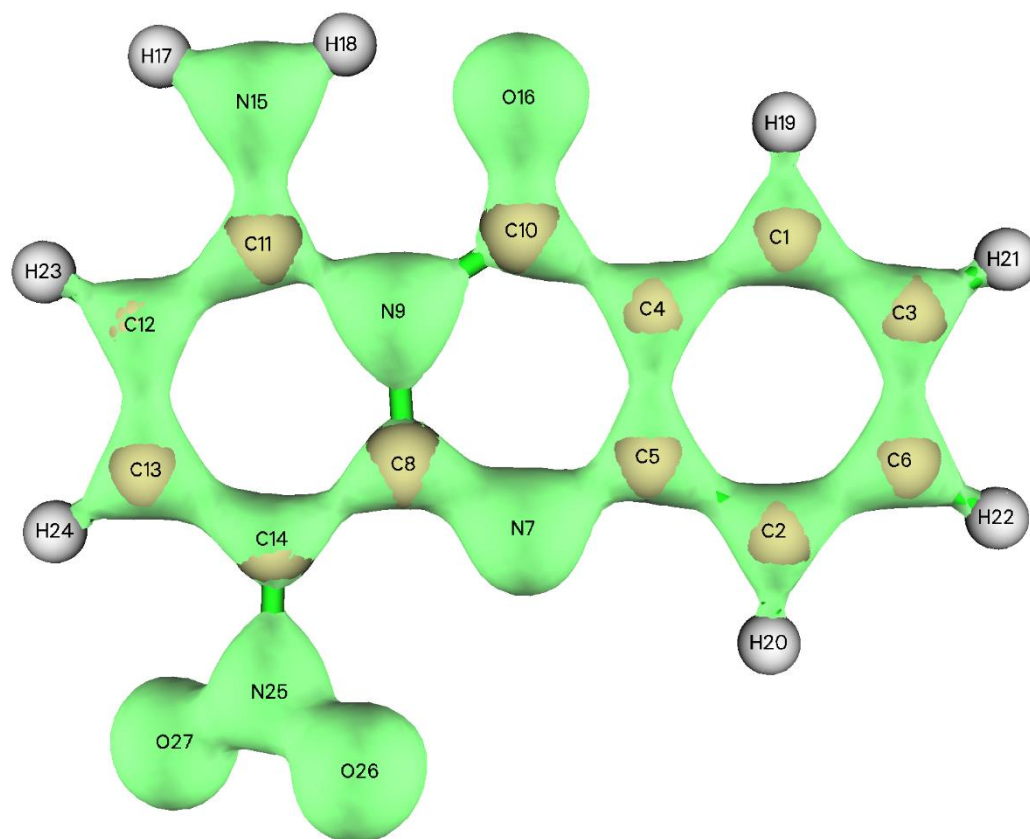


Figure S1a Electrostatic potential map of compound **25**

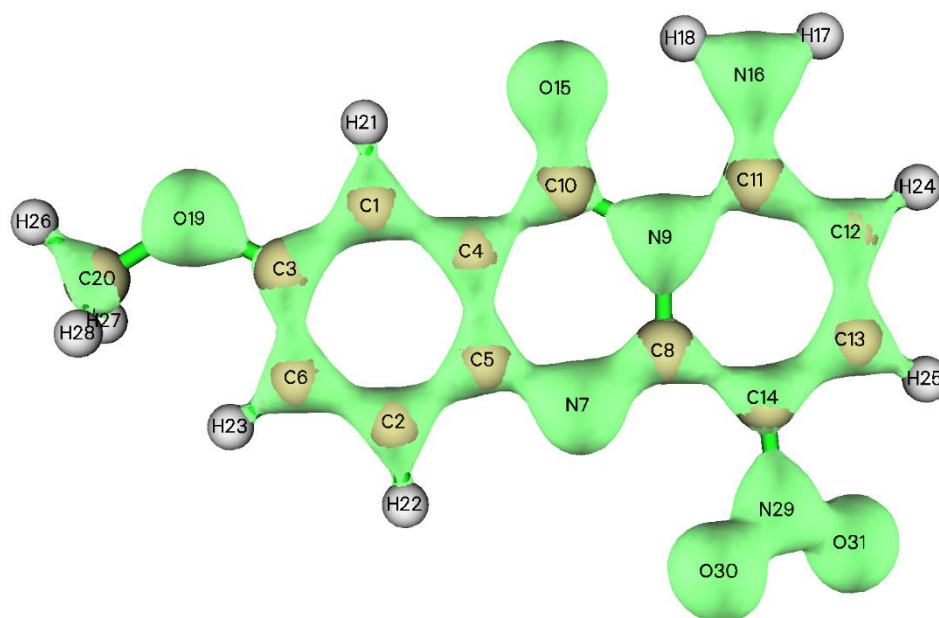


Figure S1b. Electrostatic potential map of compound **29**

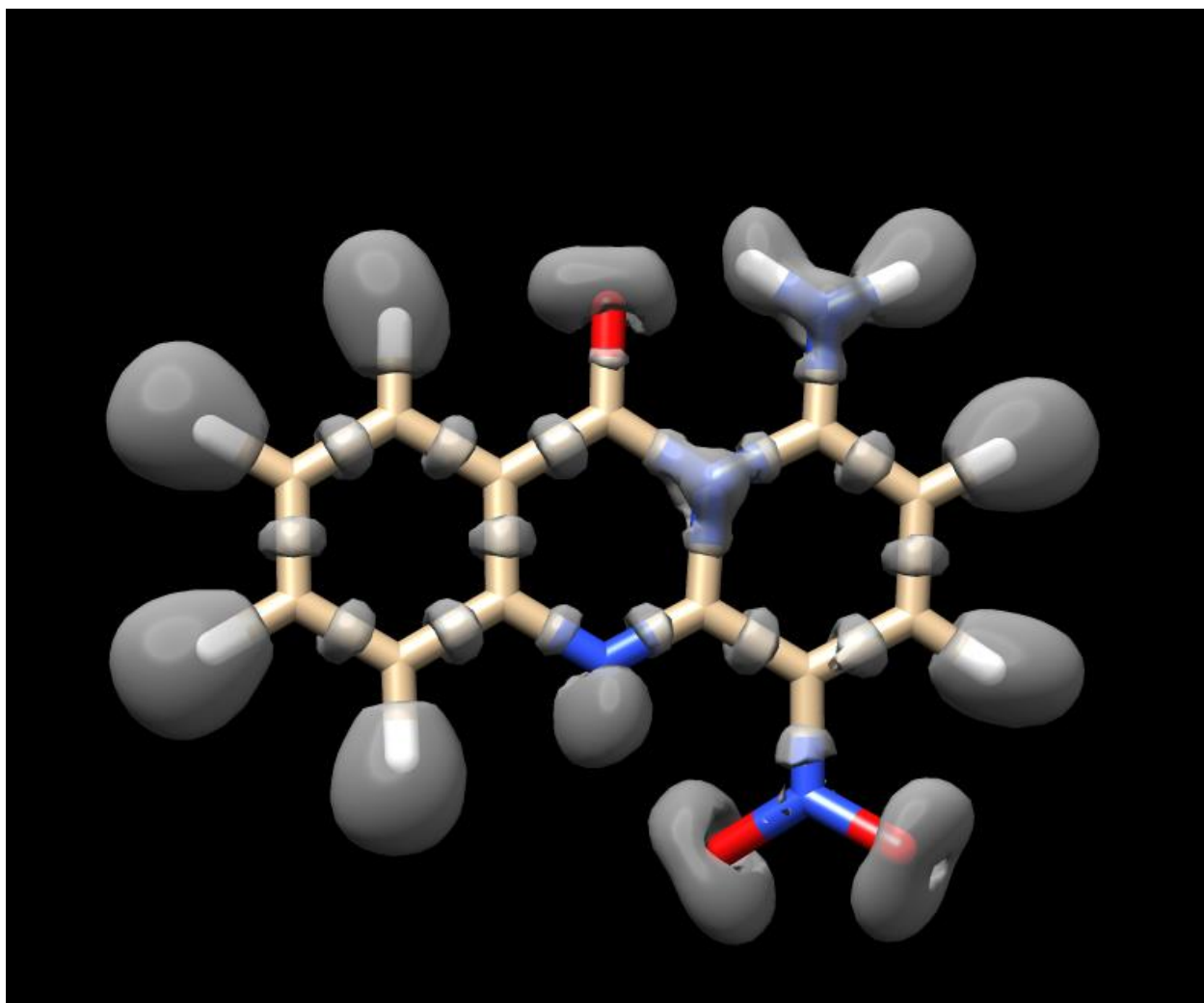


Figure S2a Electron localization function ELF isosurfaces of the compound **25**.

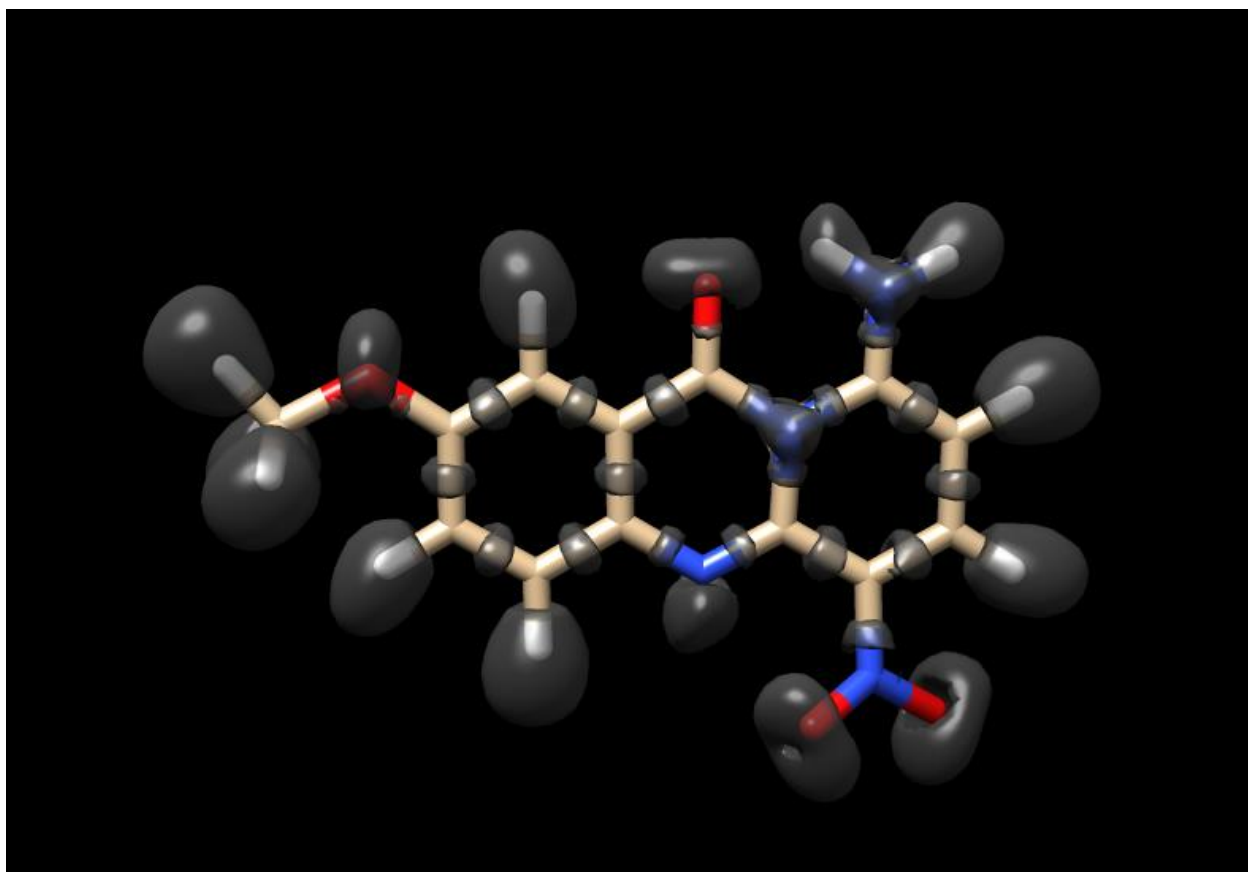


Figure S2b Electron localization function isosurfaces of the compound **29**.

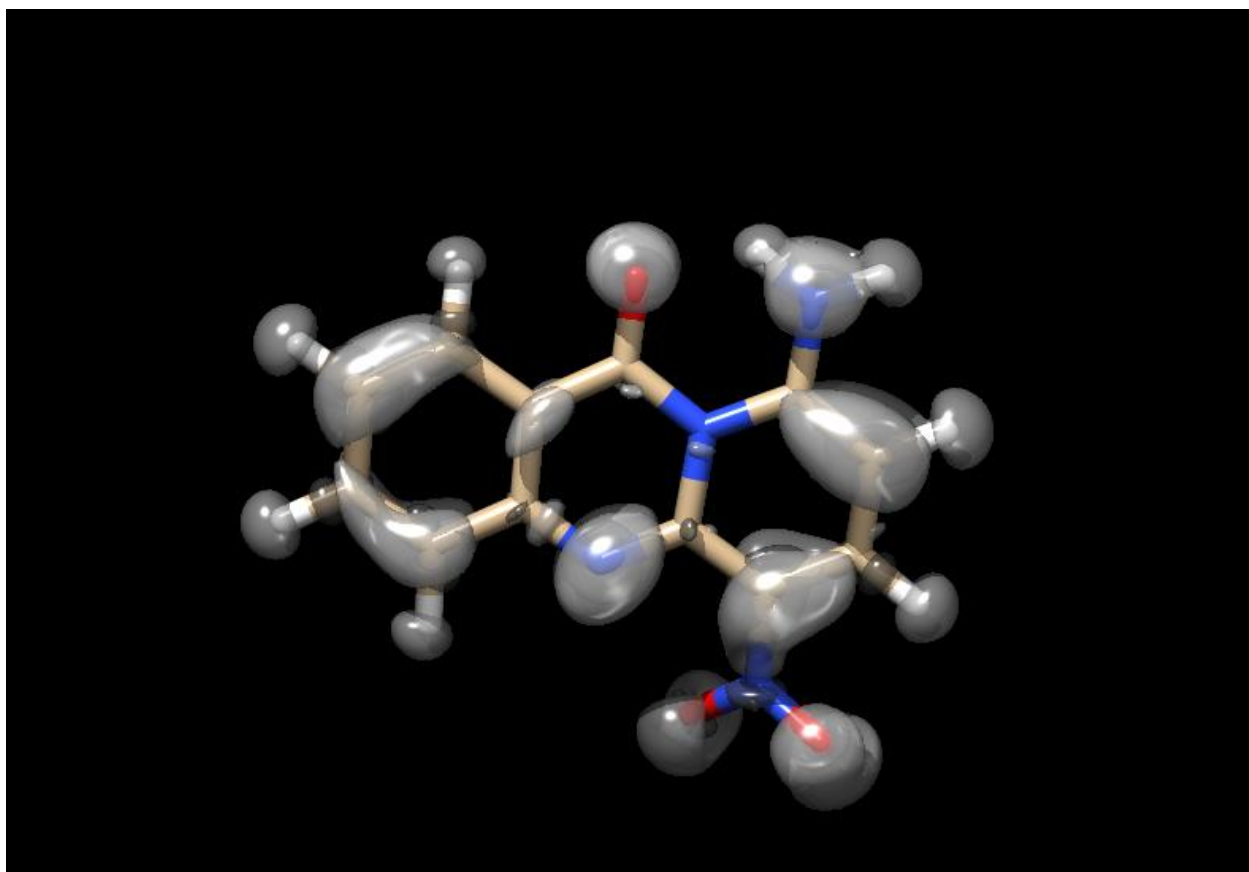


Figure S3a Fukui electrophilicity function  $f^-$  function isosurface for compound 25.

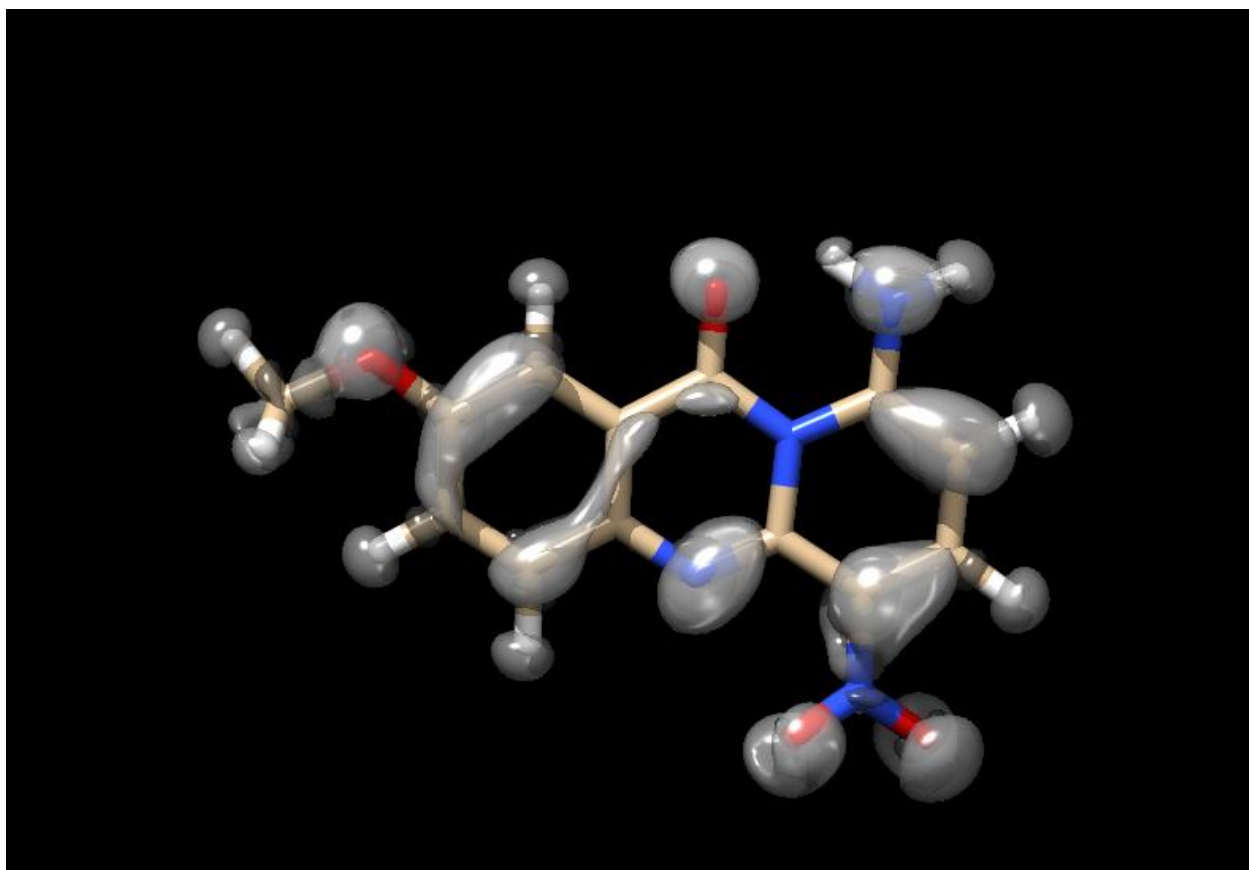
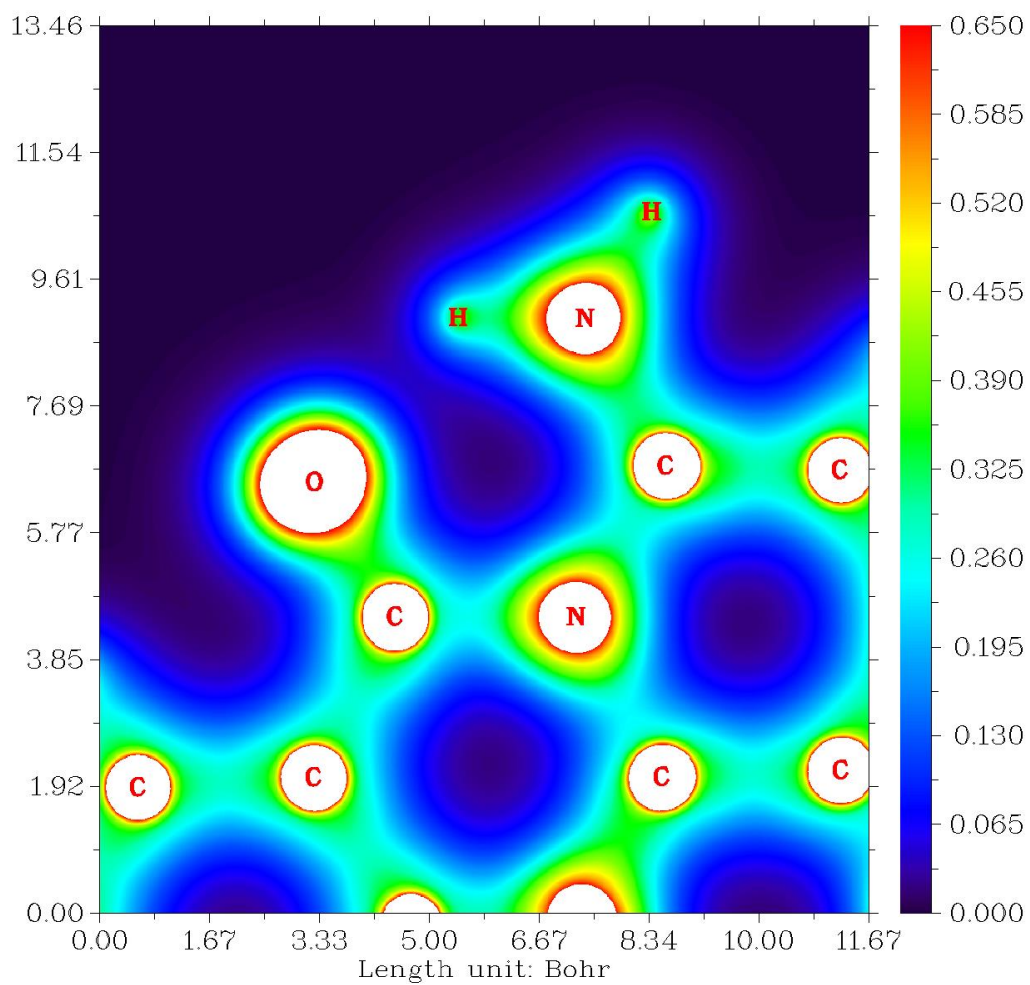


Figure S3b Fukui electrophilicity function  $f^-$  function isosurface for compound **29**.Figure S4a QTAIM of the Rho in the amide plane of compound **25**



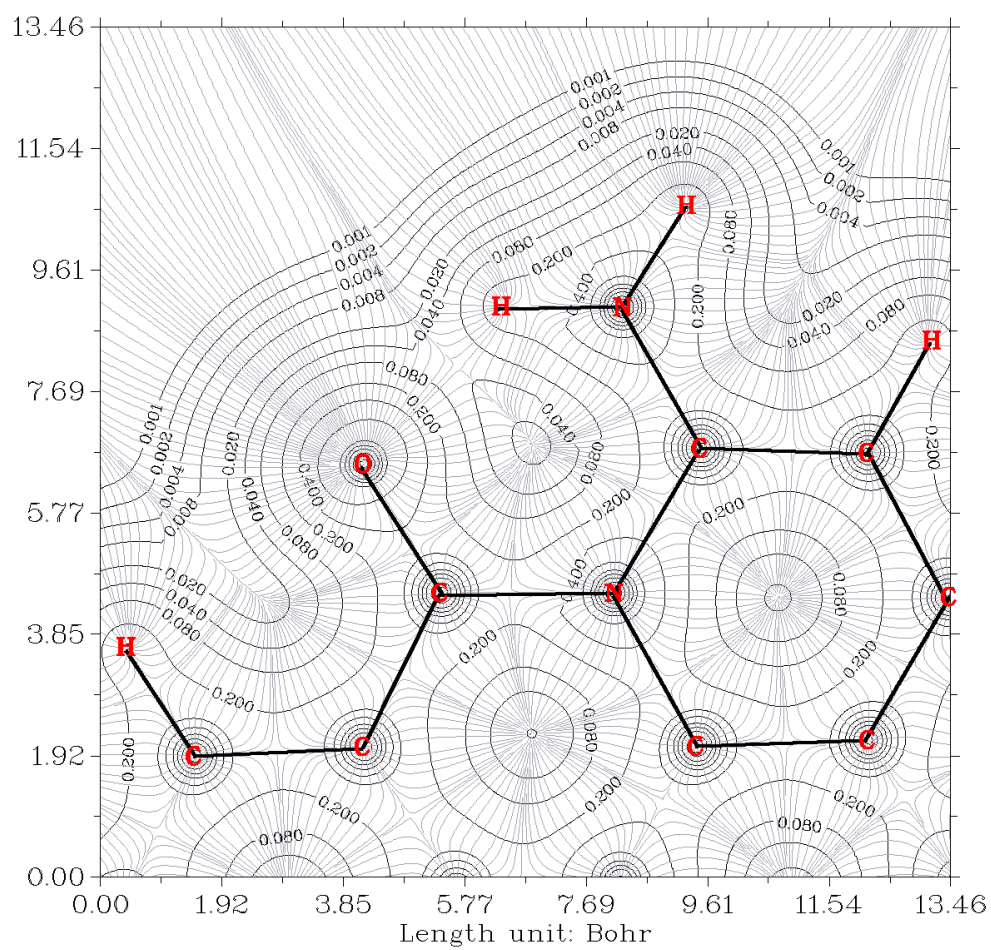


Figure S4b QTAIM of the  $\rho$  in the amide plane of compound **25** with the isovalues made visible

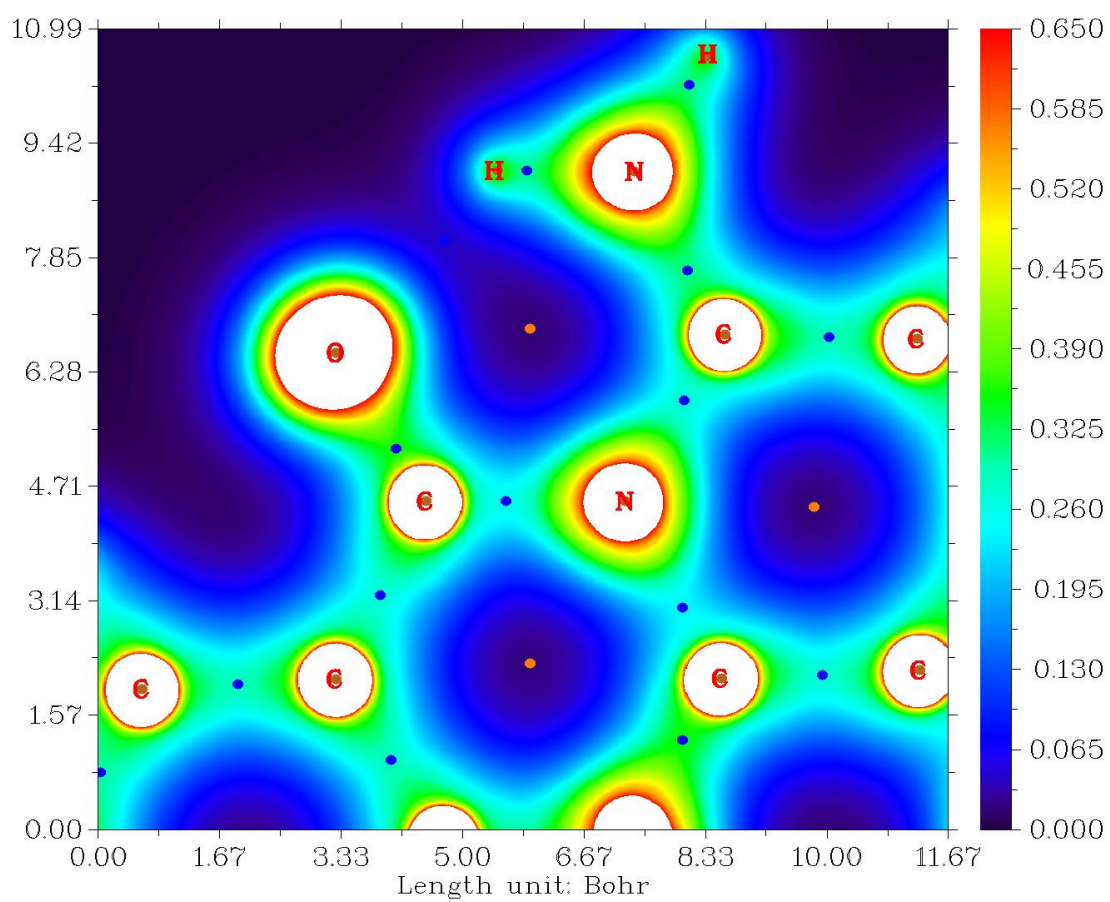


Figure S4c QTAIM of the Rho in the amide plane of compound **29**

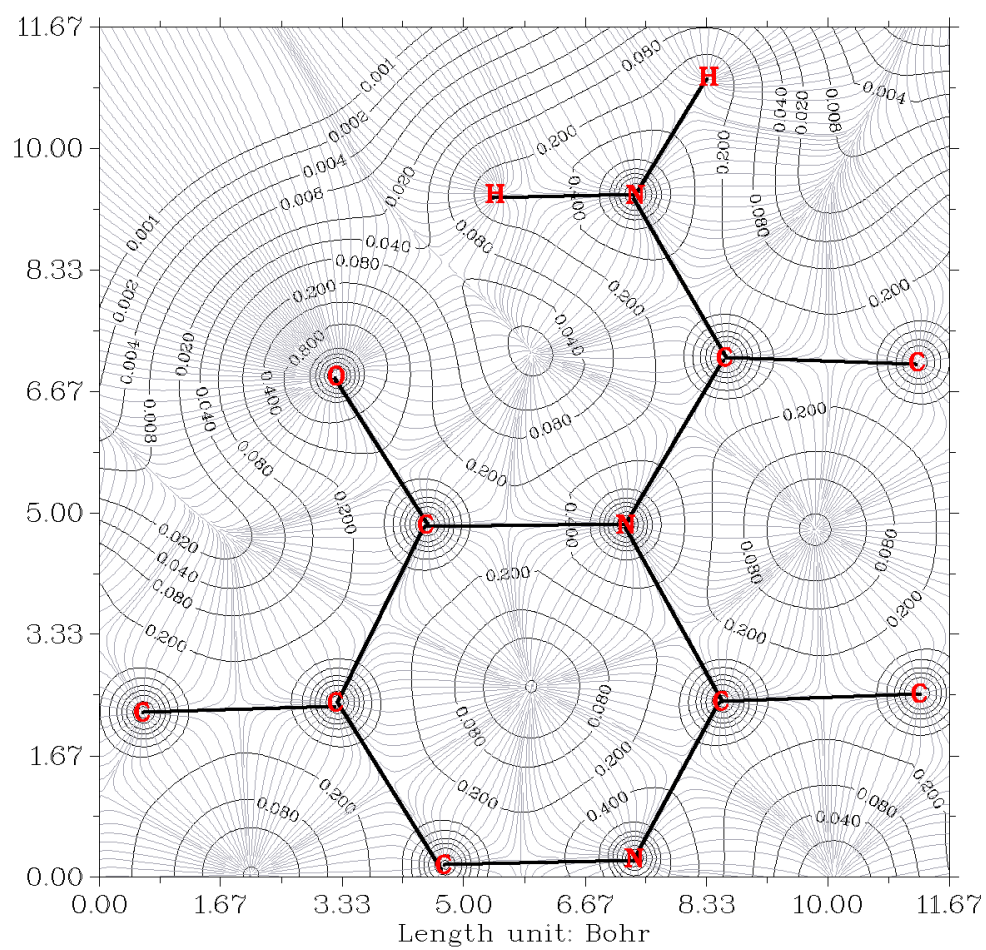


Figure S4d QTAIM of the Rho in the amide plane of compound **29** with the isovalues made visible

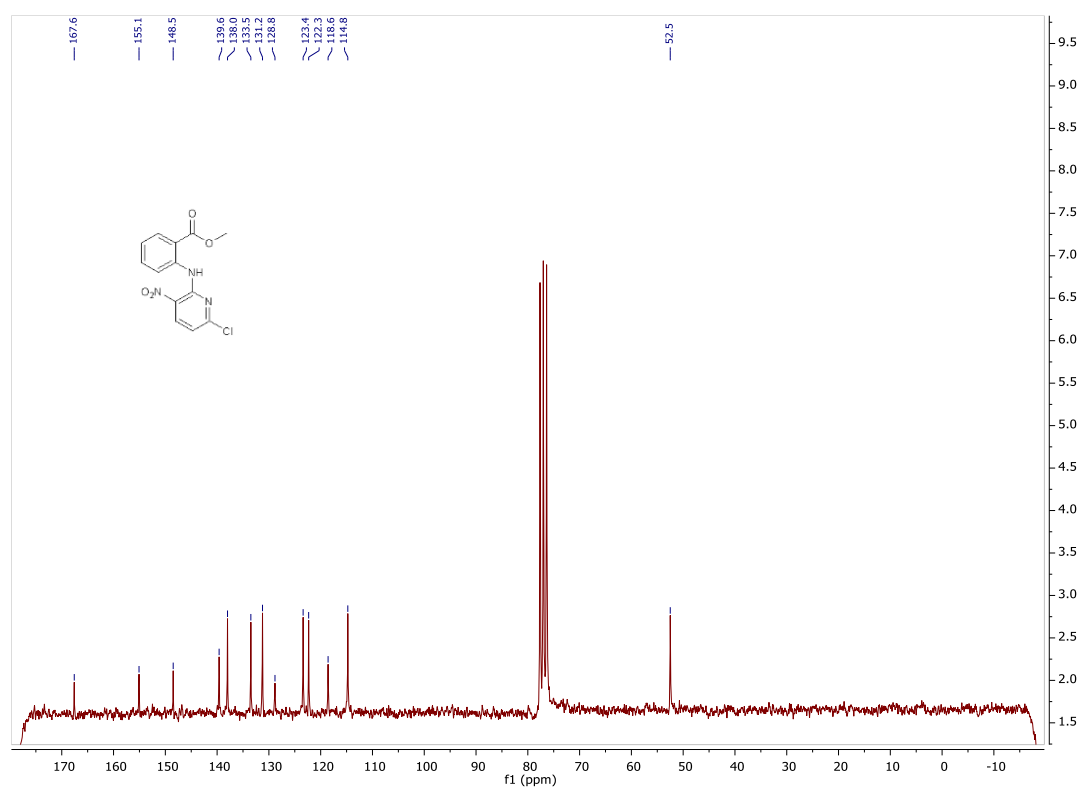
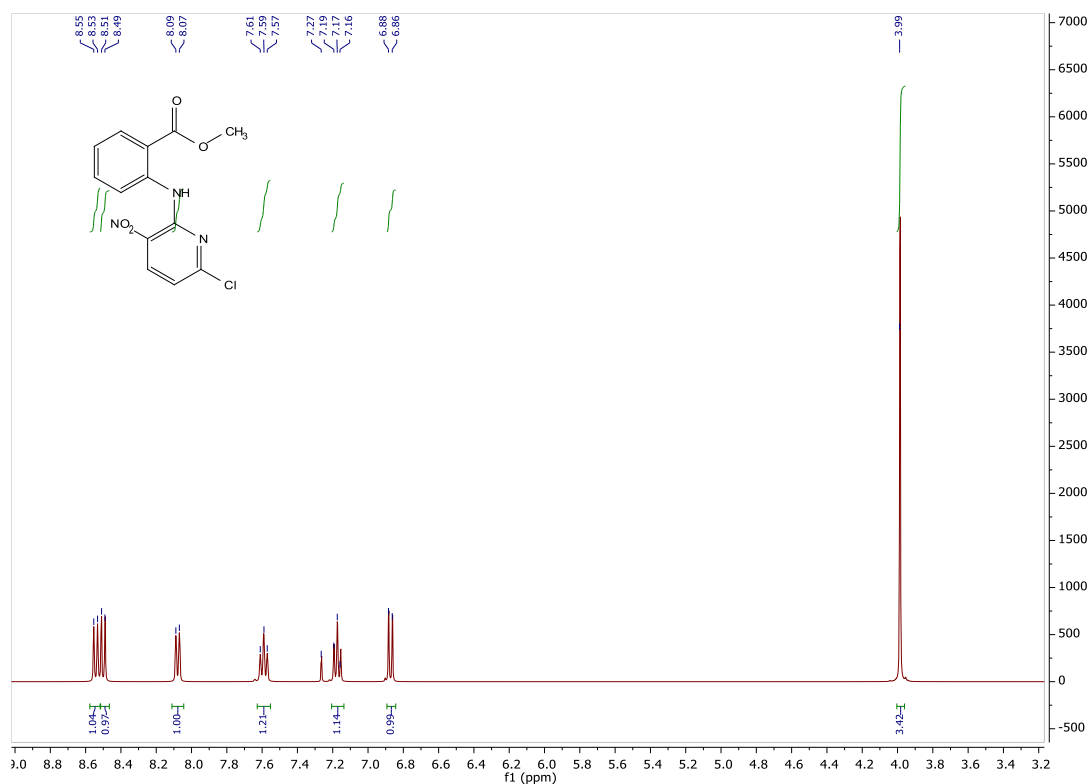


Figure S5: <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 4.

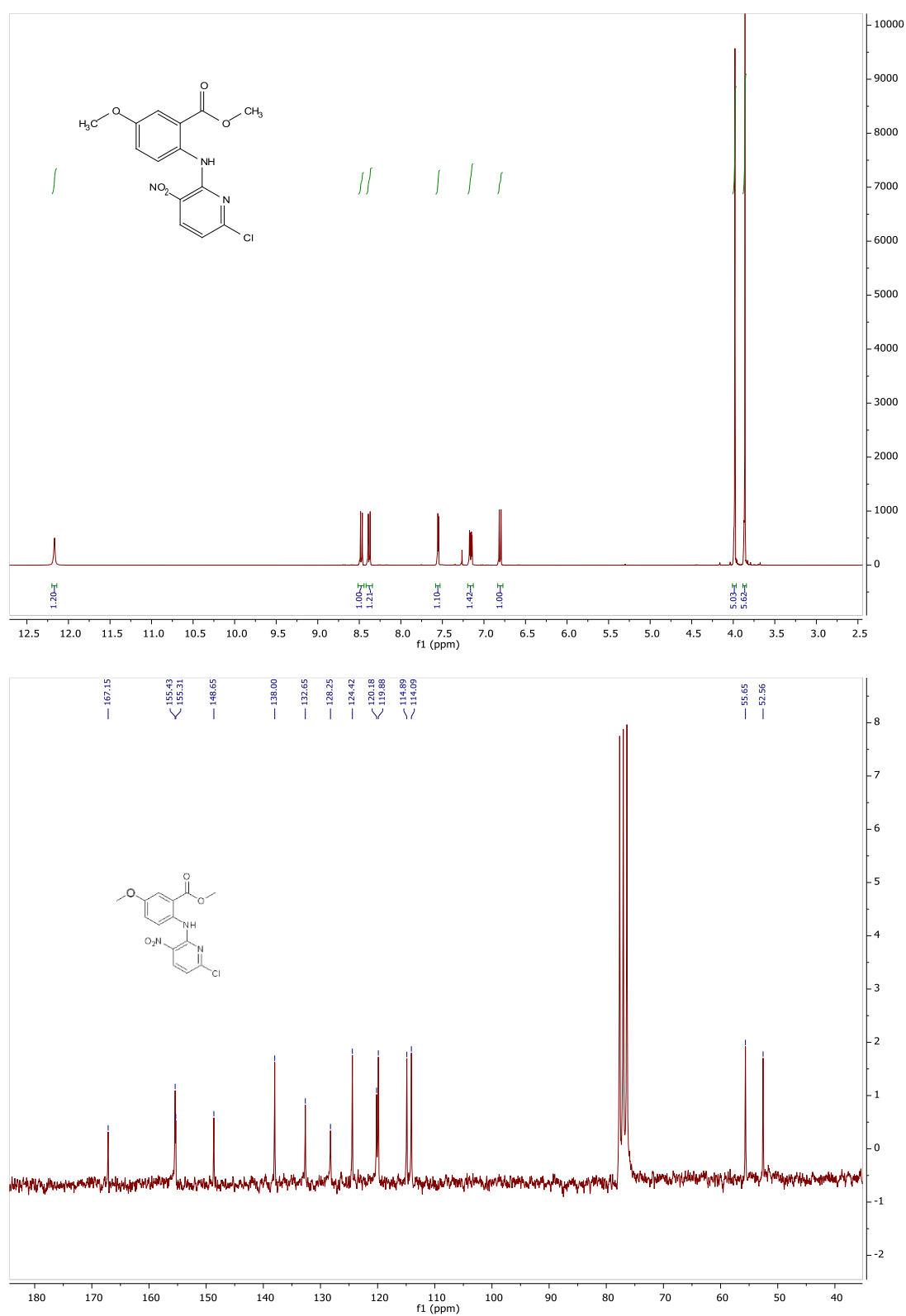


Figure S6:  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR spectrum of compound 5.

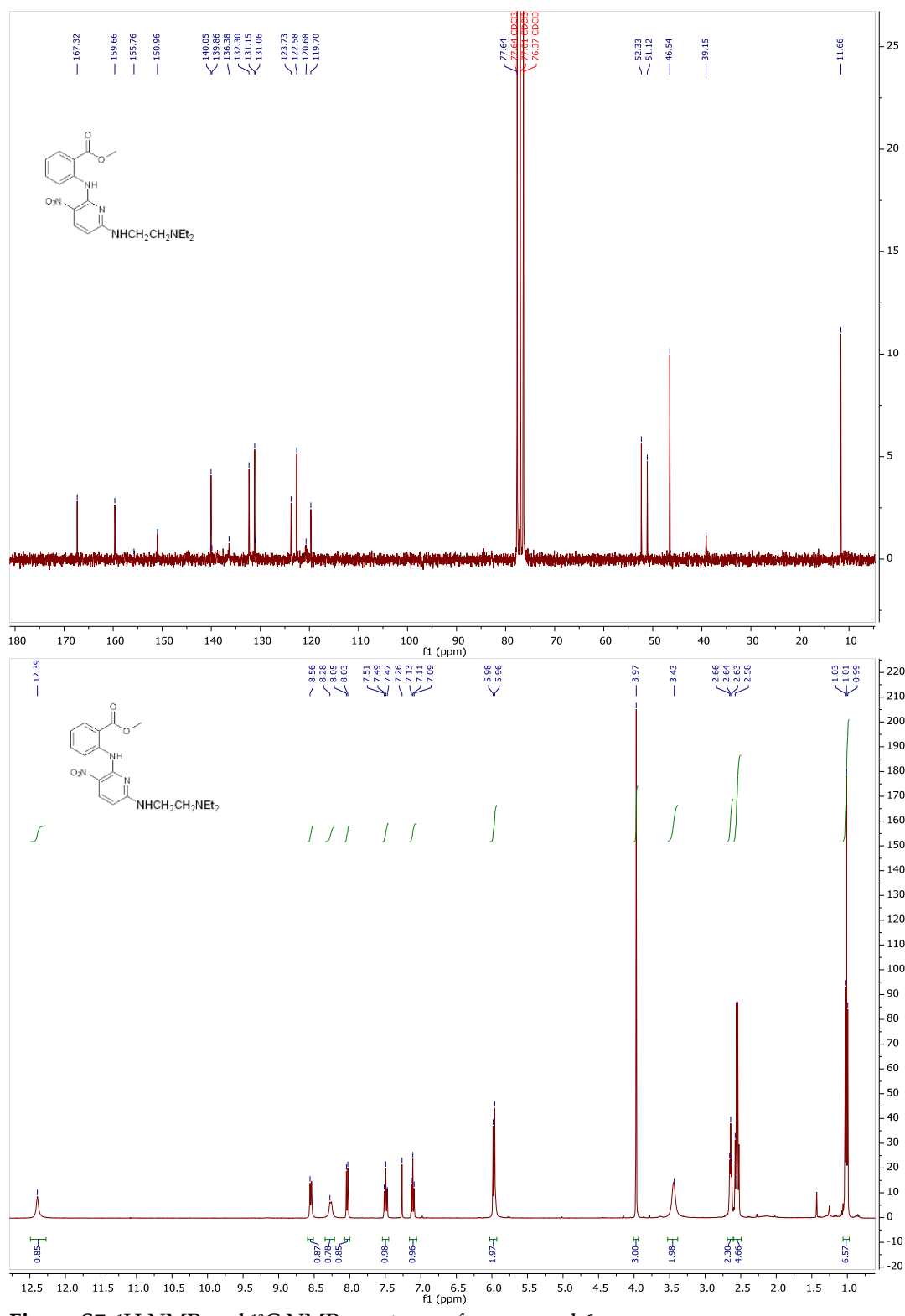
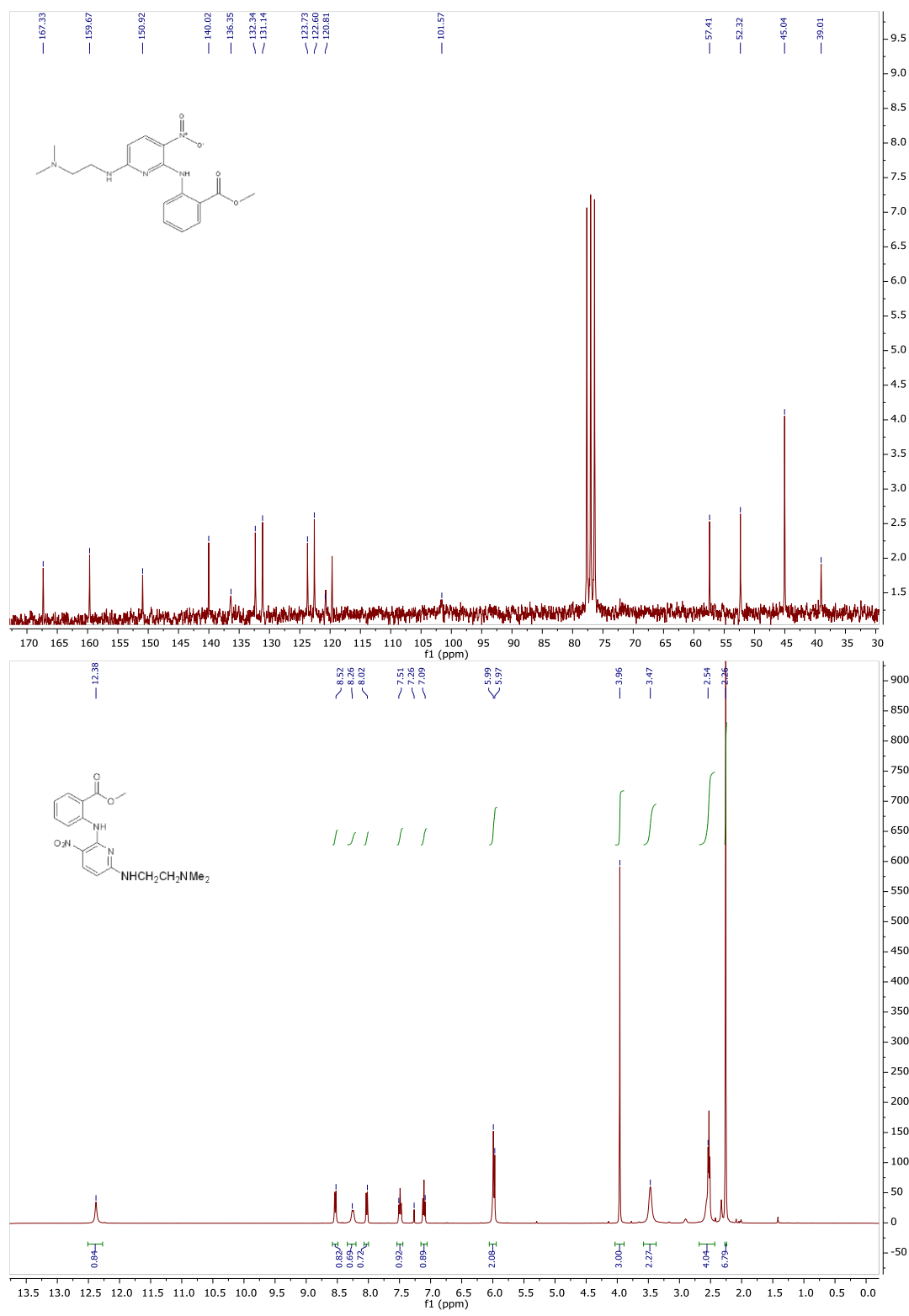


Figure S7: <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 6.



**Figure S8:** <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 7.

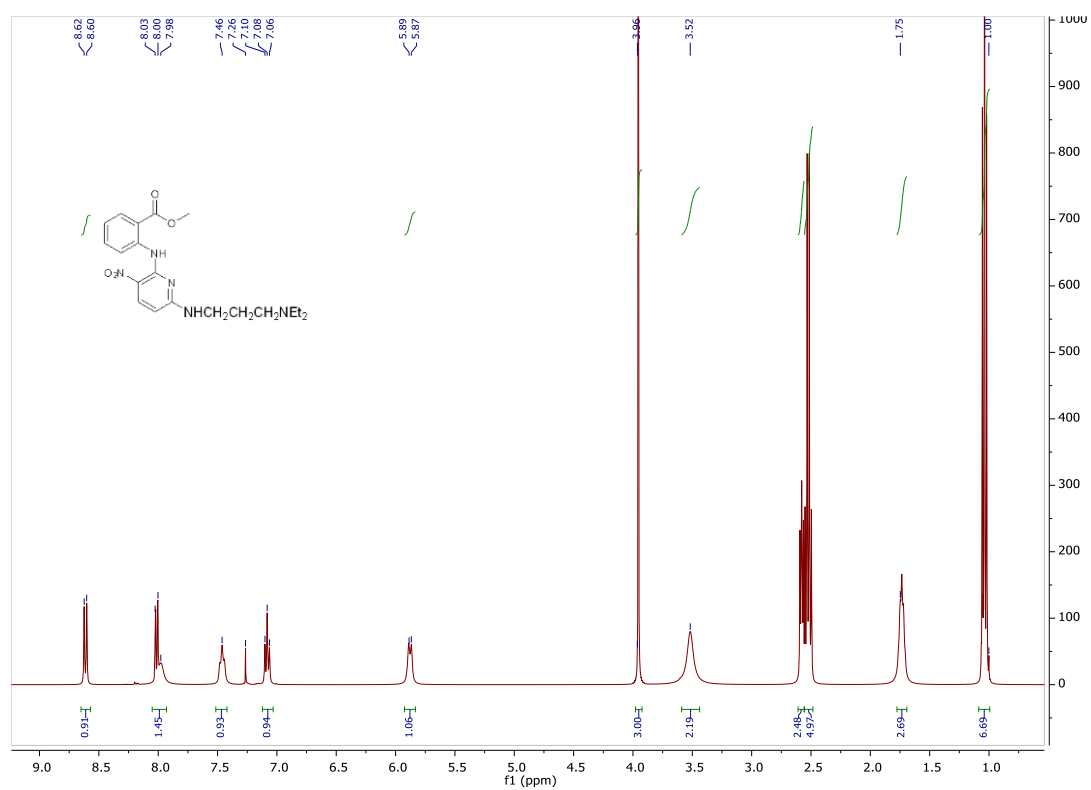
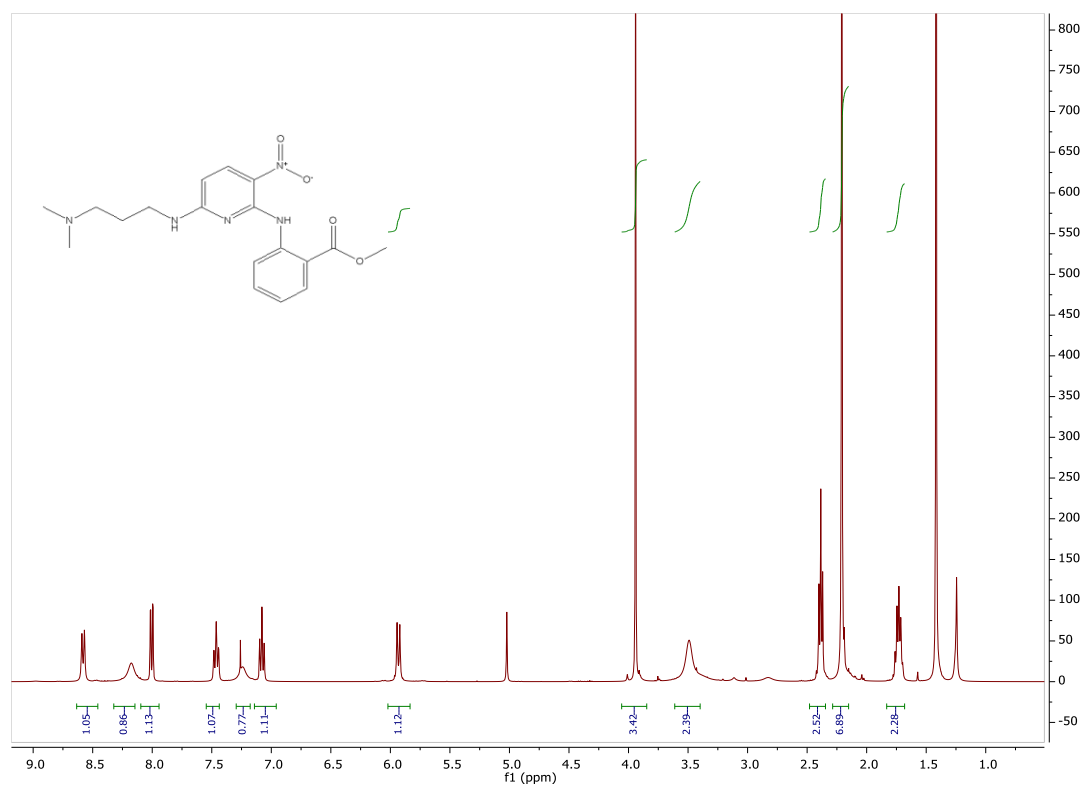


Figure S9: <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 8.





**Figure S10:** <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound **9**.

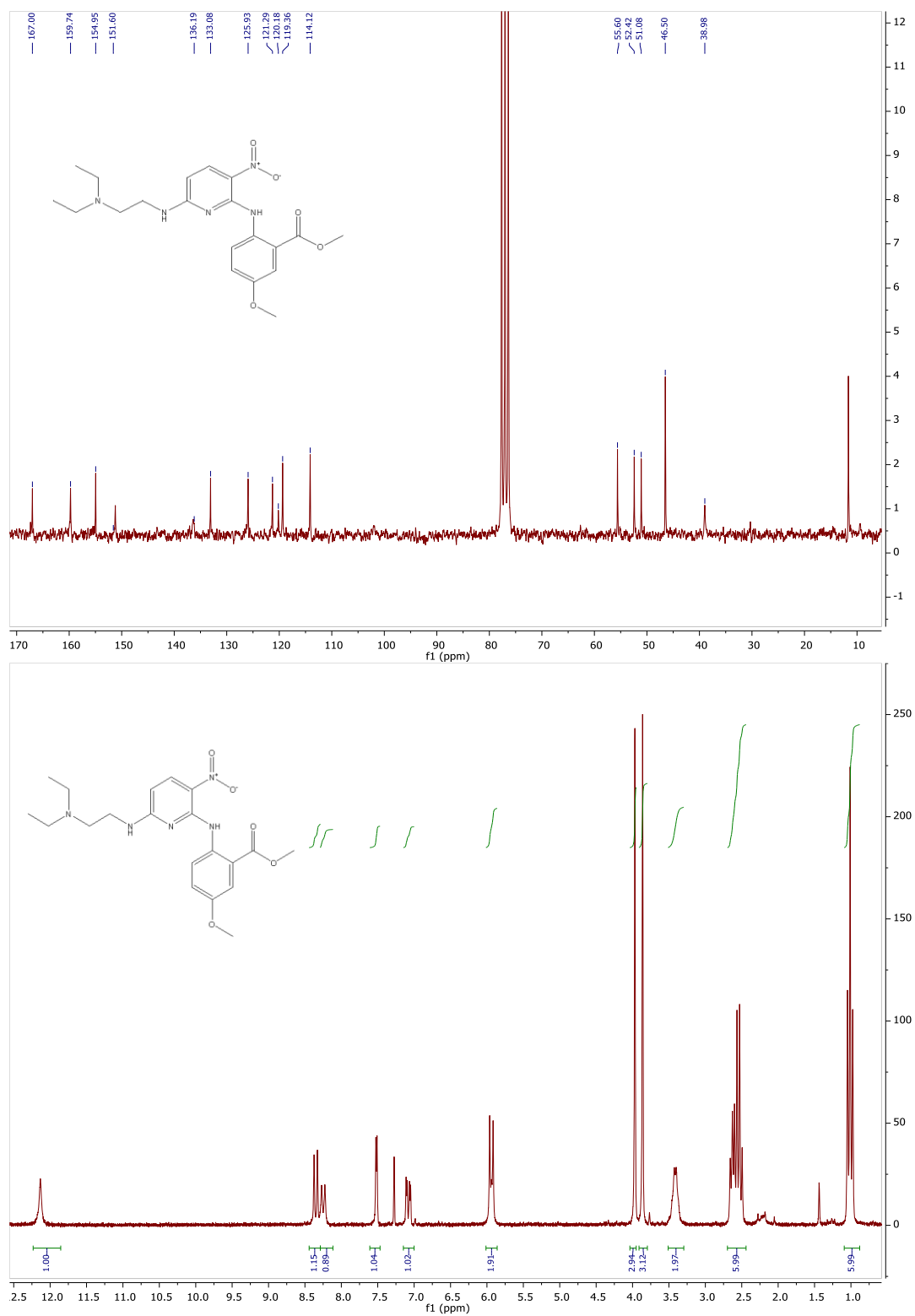


Figure S11: <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 10.

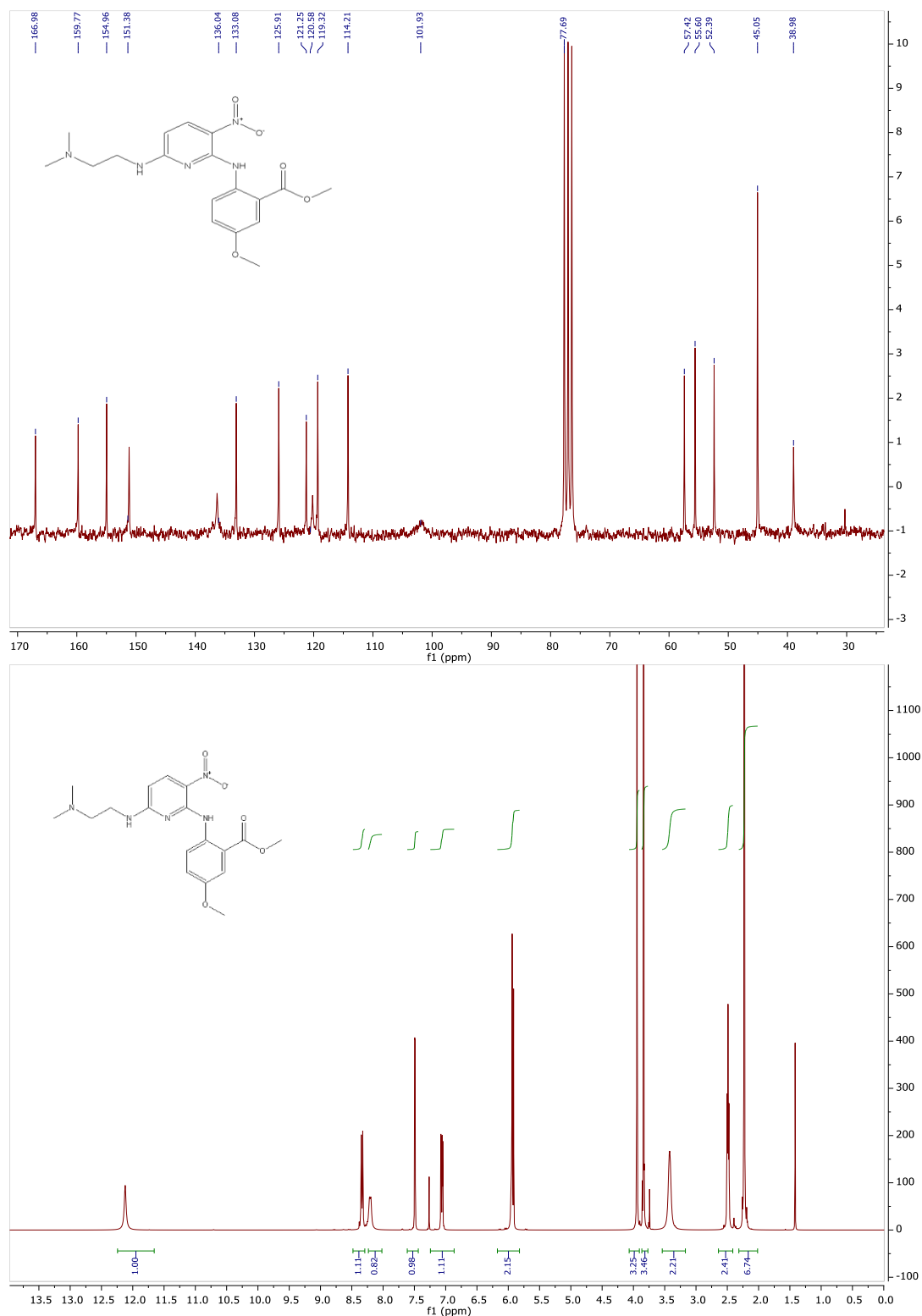


Figure S12:  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR spectrum of compound 11.

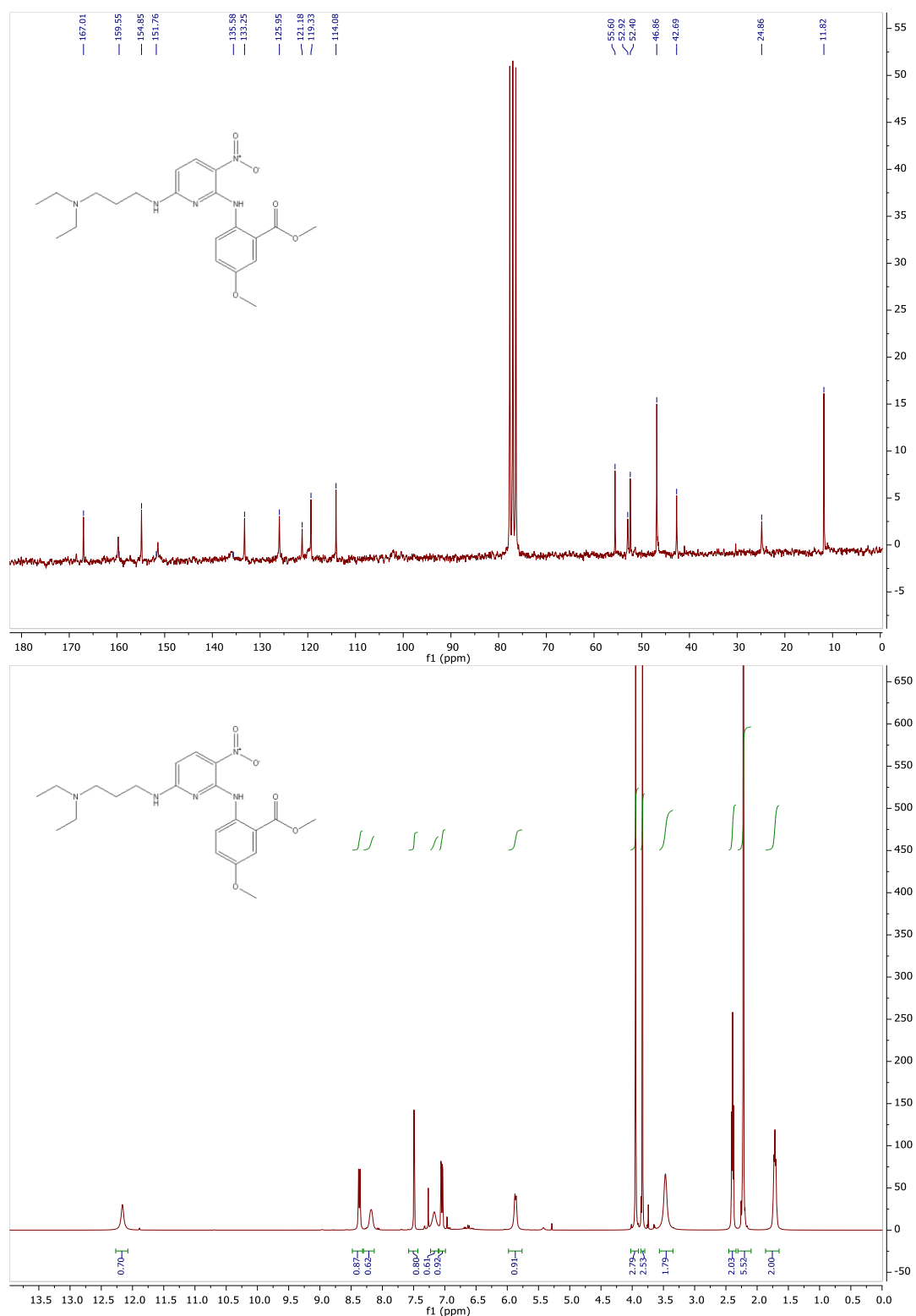
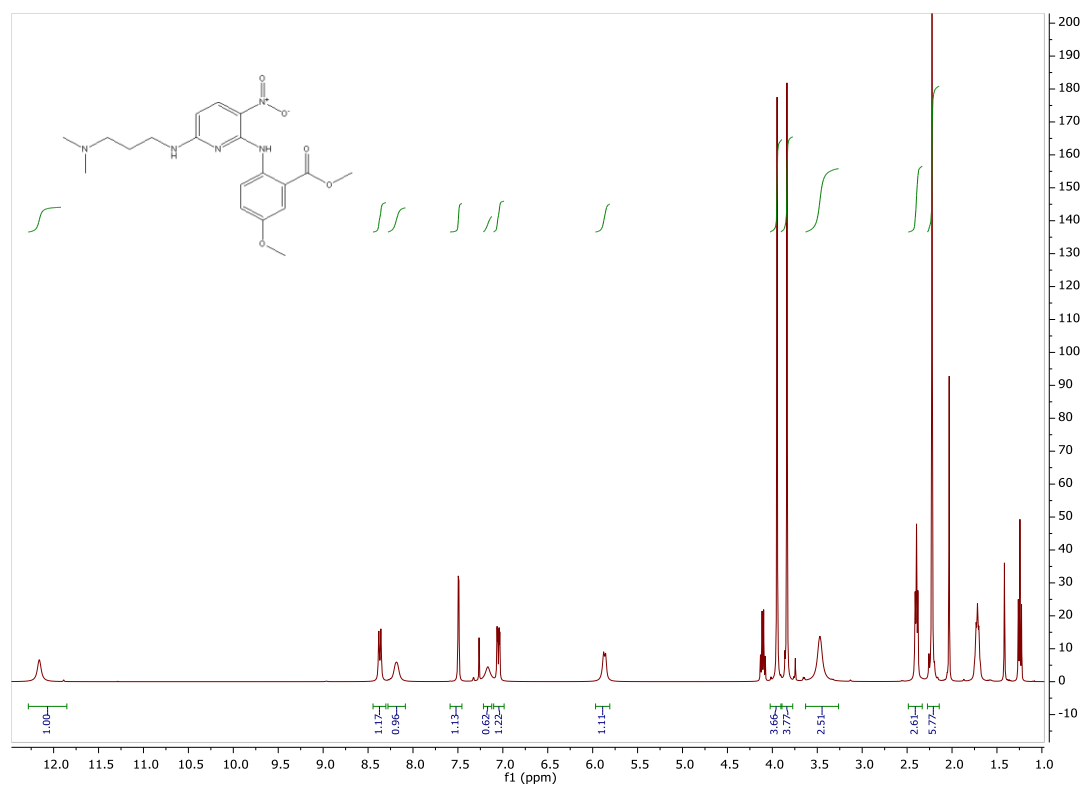
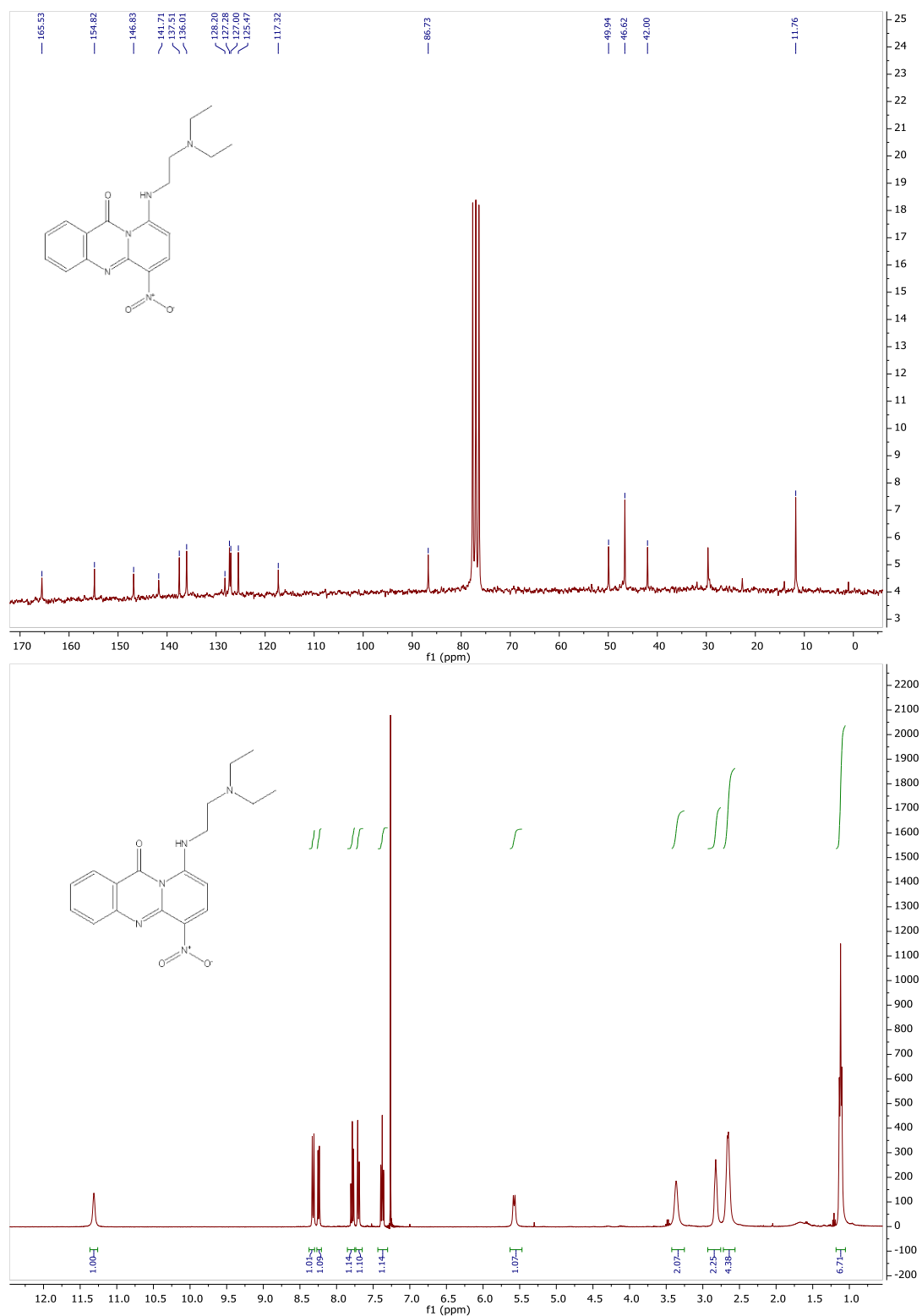


Figure S13: <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 12.



**Figure S14:** <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 13.



**Figure S15:** <sup>1</sup>H-NMR and <sup>13</sup>C NMR spectrum of compound 22.

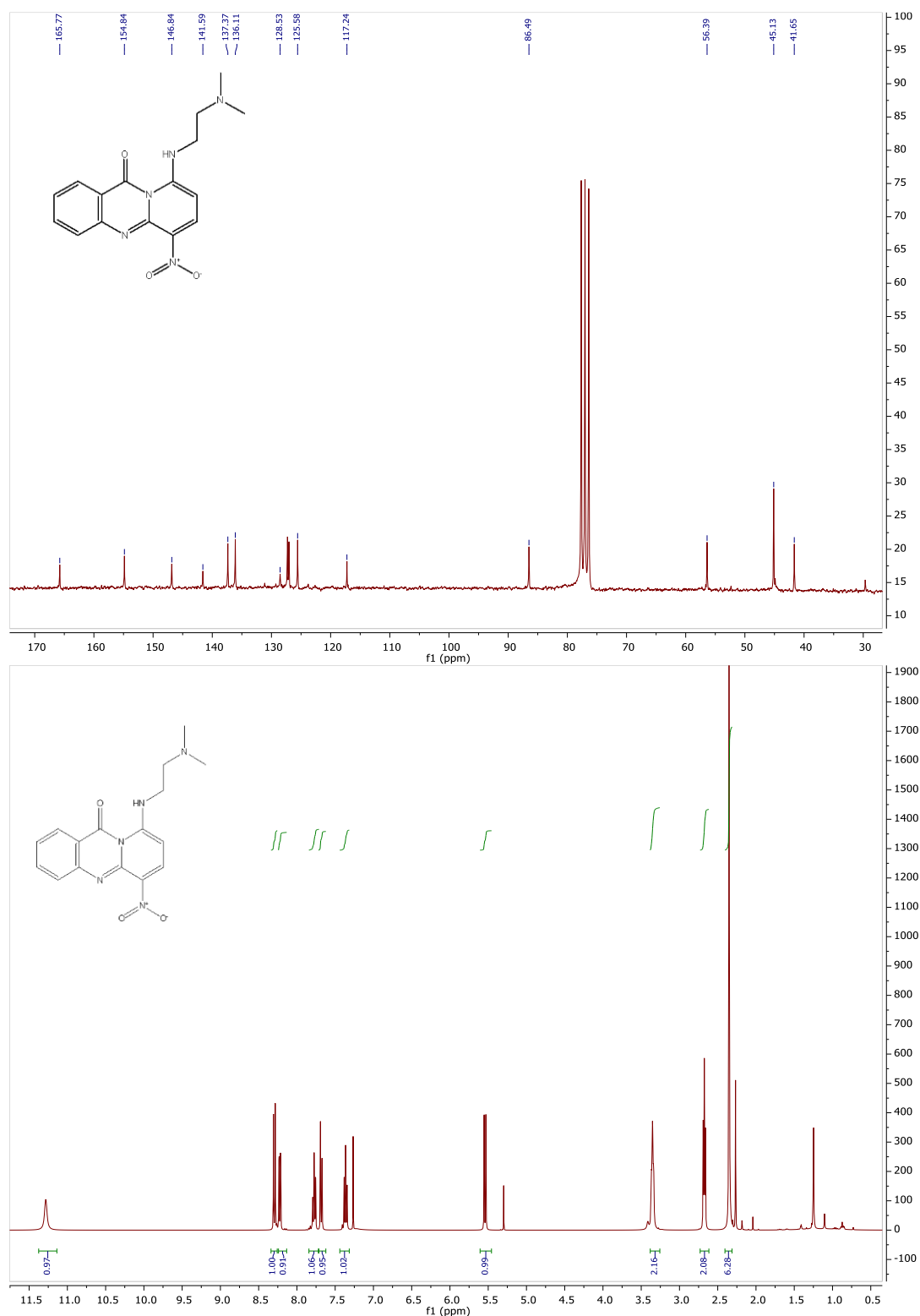
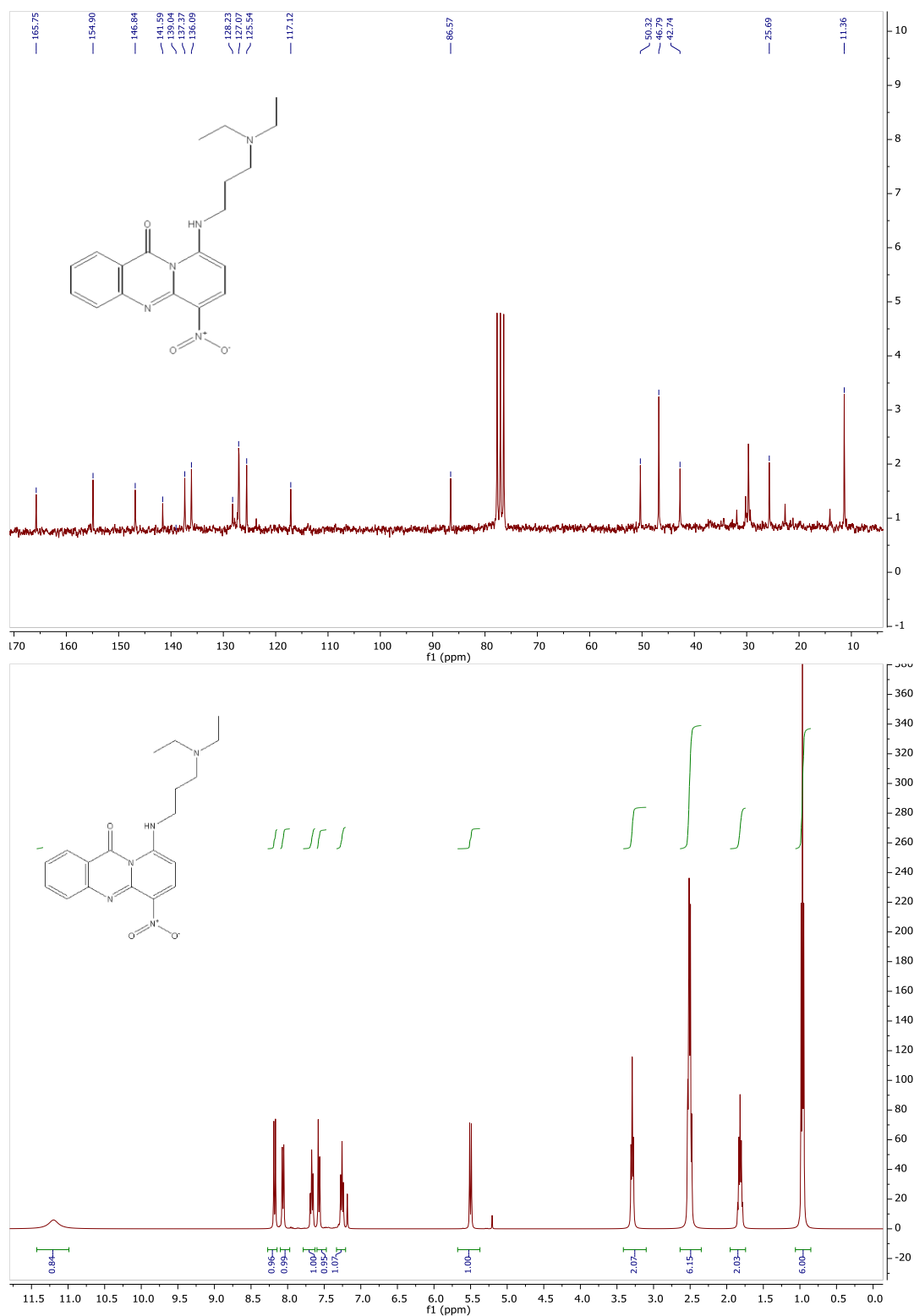


Figure S16:  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR spectrum of compound 23.



**Figure S17:** <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound **24**.



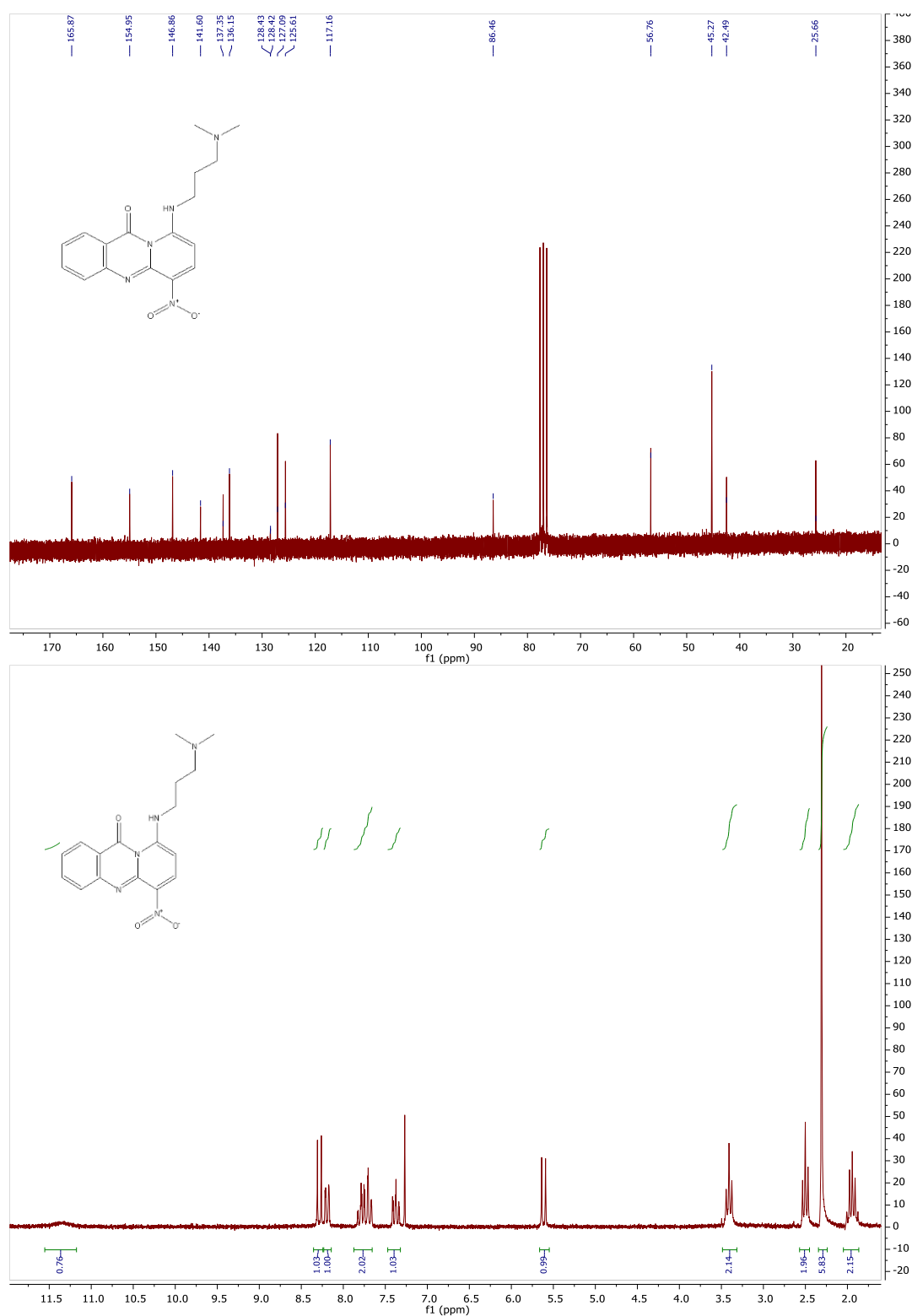
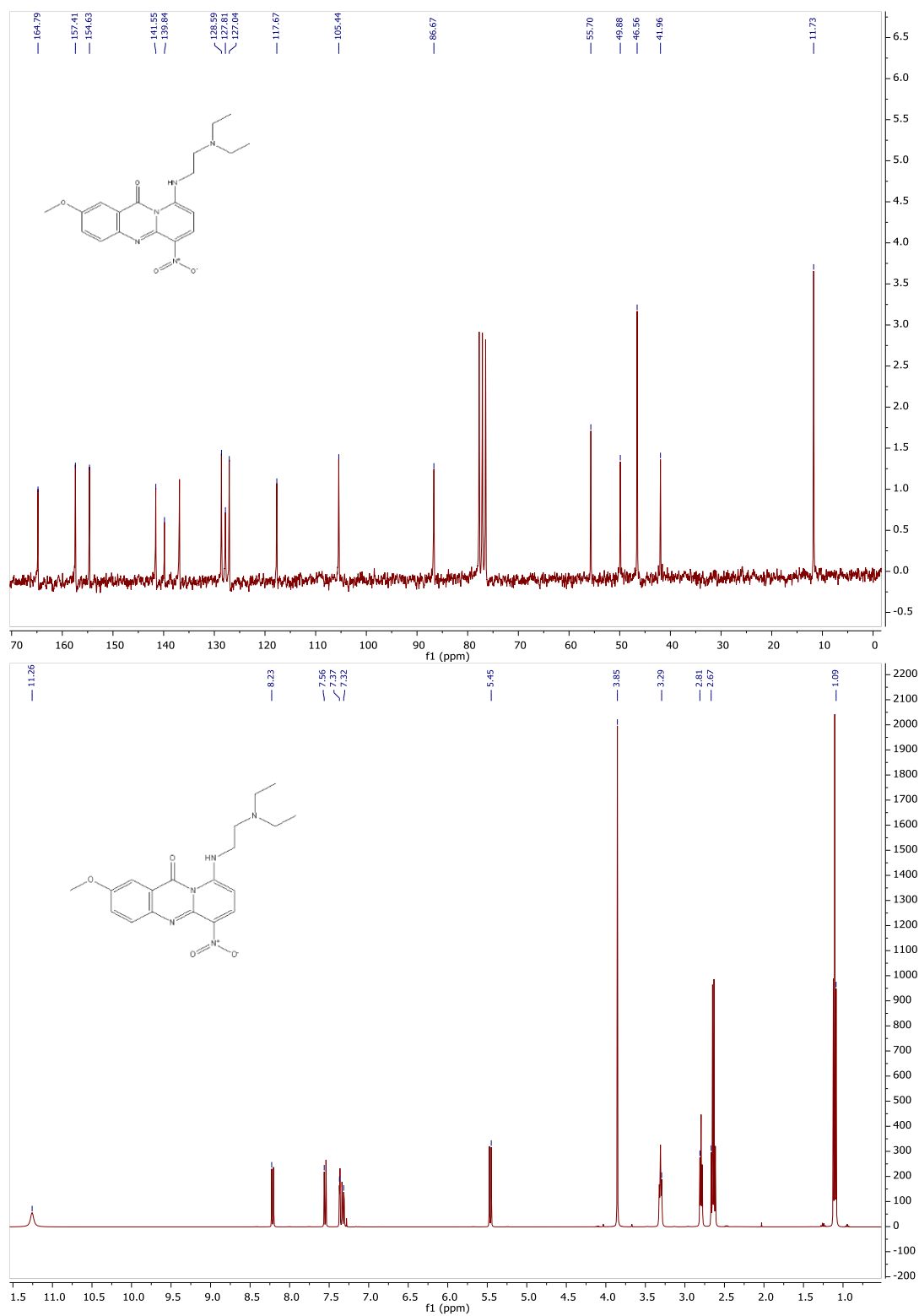


Figure S18: <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 25.



**Figure S19:** <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 26.

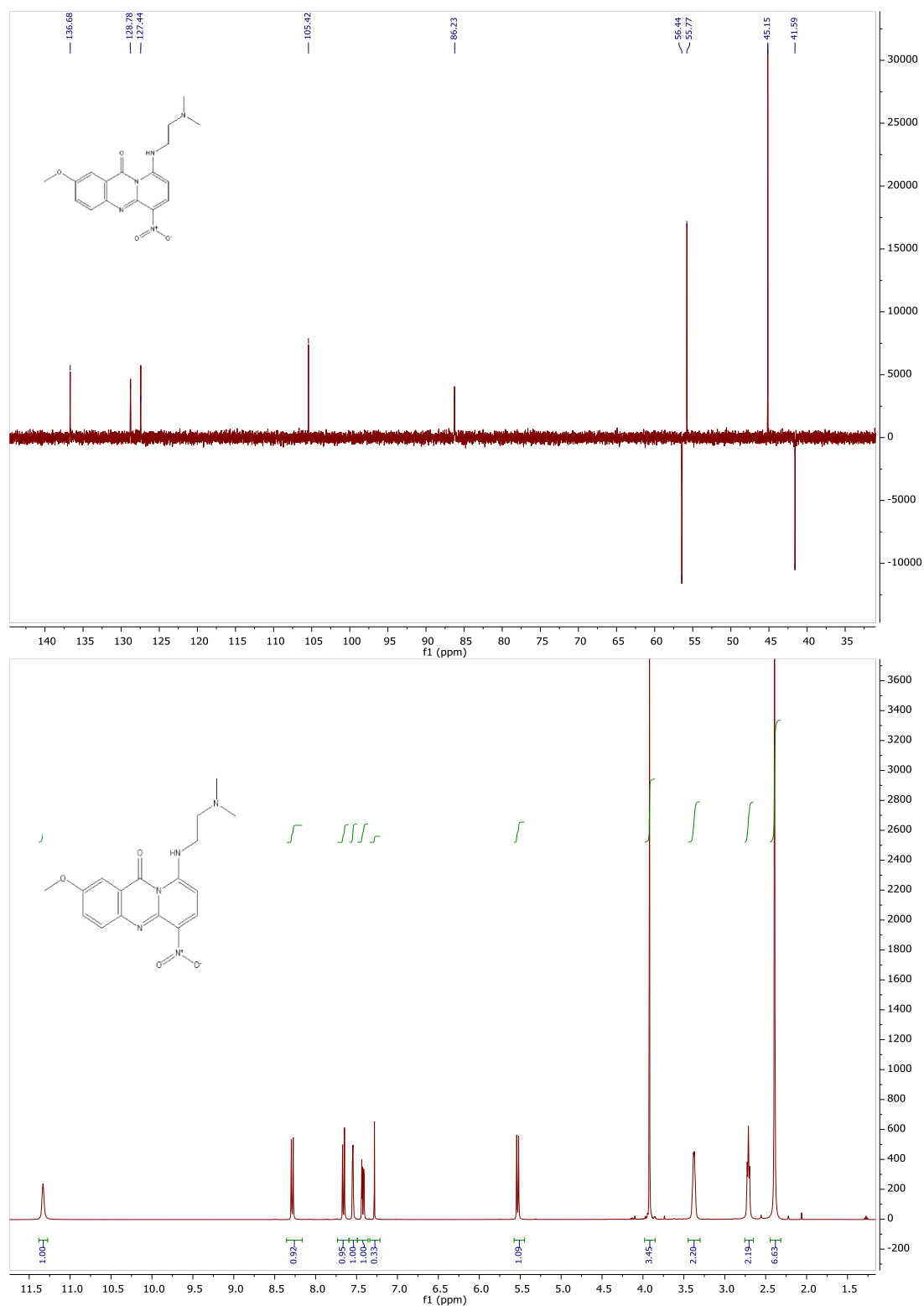


Figure S20:  $^1\text{H}$  NMR and  $^{13}\text{C}$  NMR spectrum of compound 27.

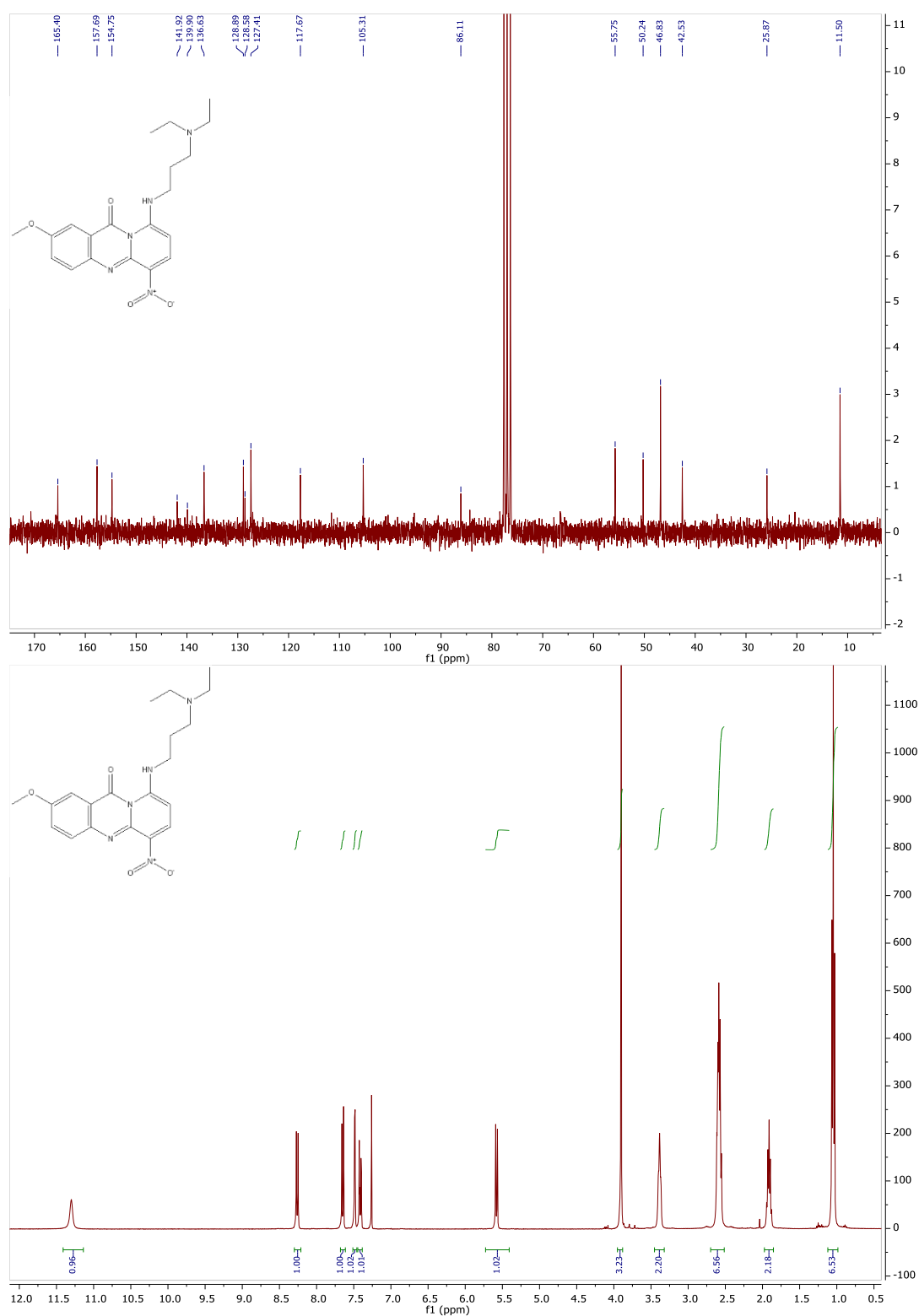
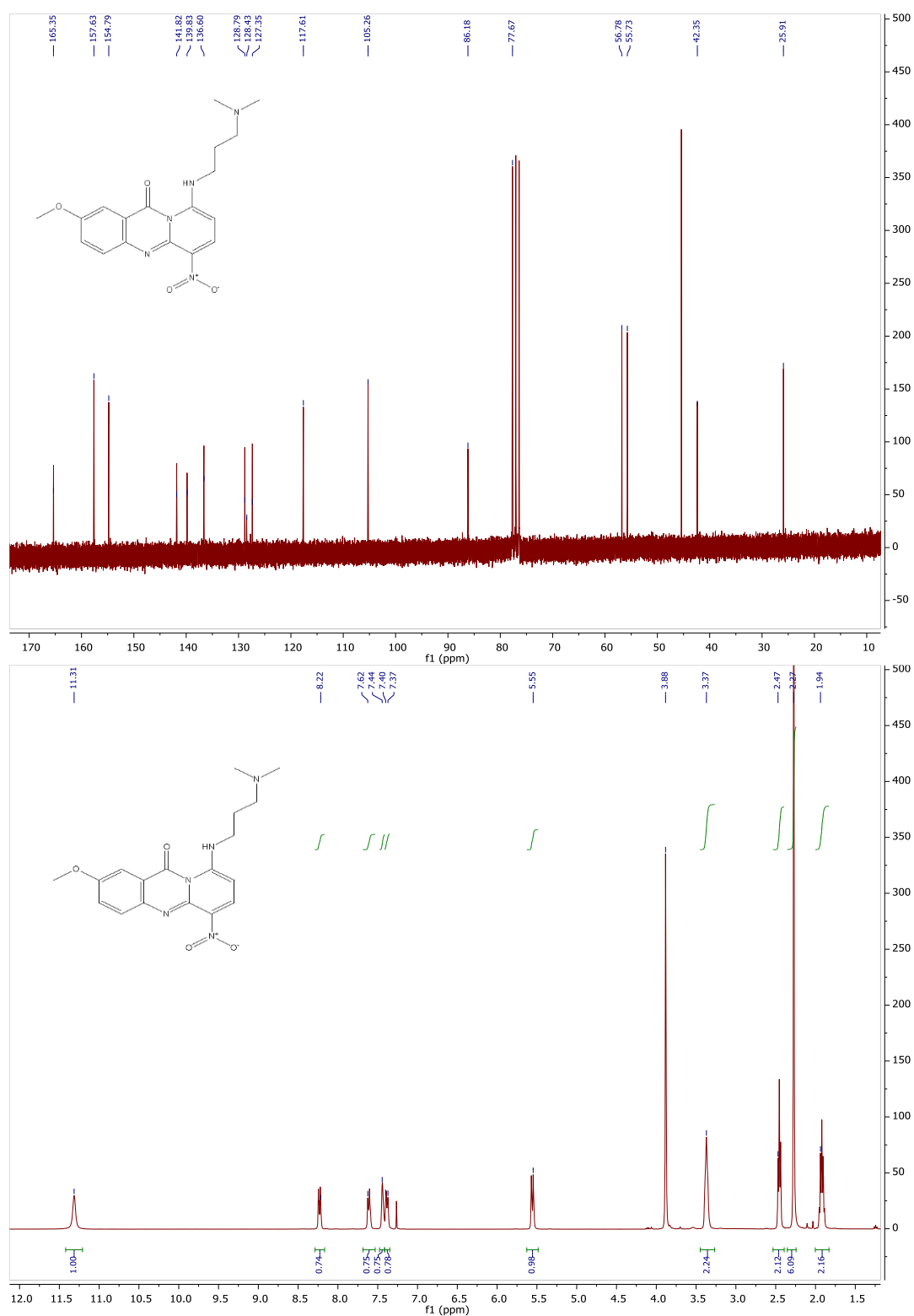
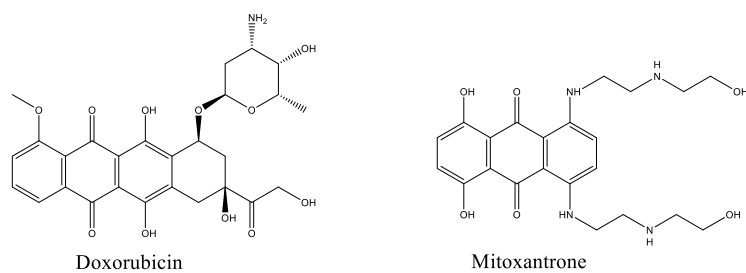


Figure S21: <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 28.



**Figure S22:** <sup>1</sup>H NMR and <sup>13</sup>C NMR spectrum of compound 29.



**Figure S23:** Structures of positive controls