

Supporting Information

^1H , ^{13}C -NMR and HRMS Spectras

Figure S1. ^1H -NMR of Compound 4a.

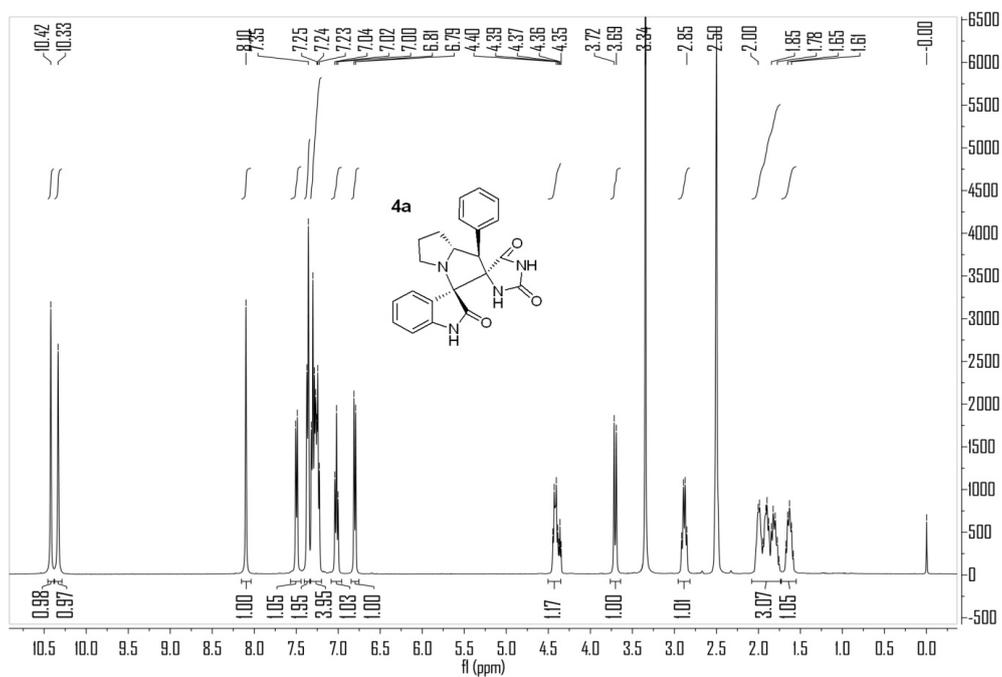


Figure S2. ^{13}C -NMR of Compound 4a.

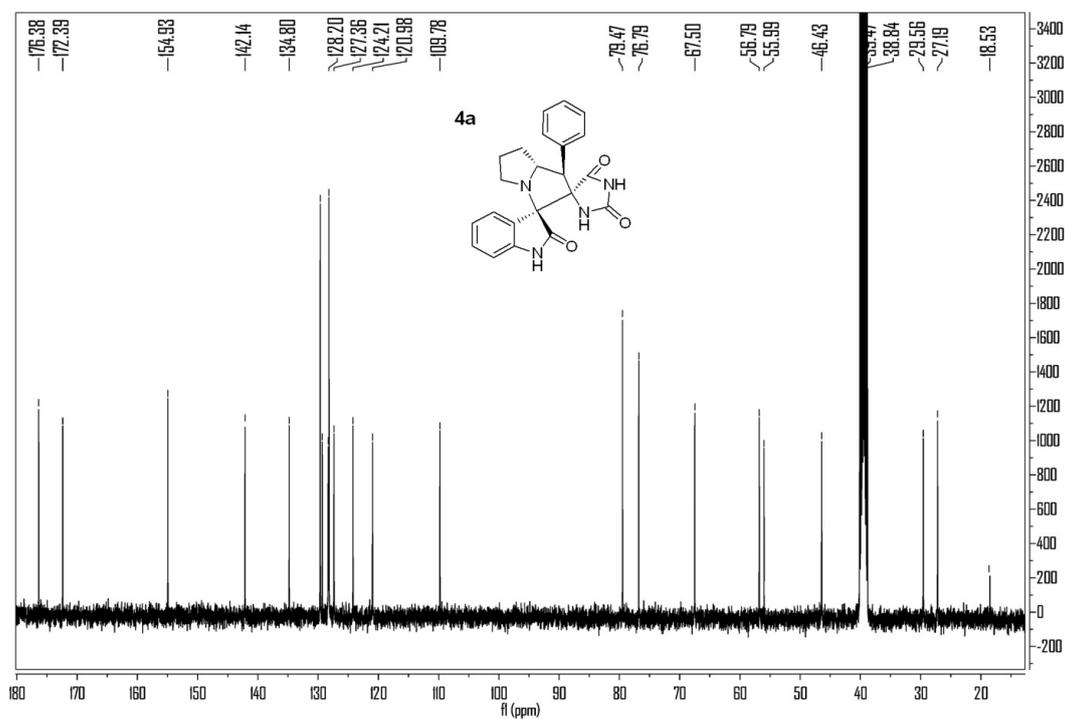


Figure S3. HRMS of Compound 4a.

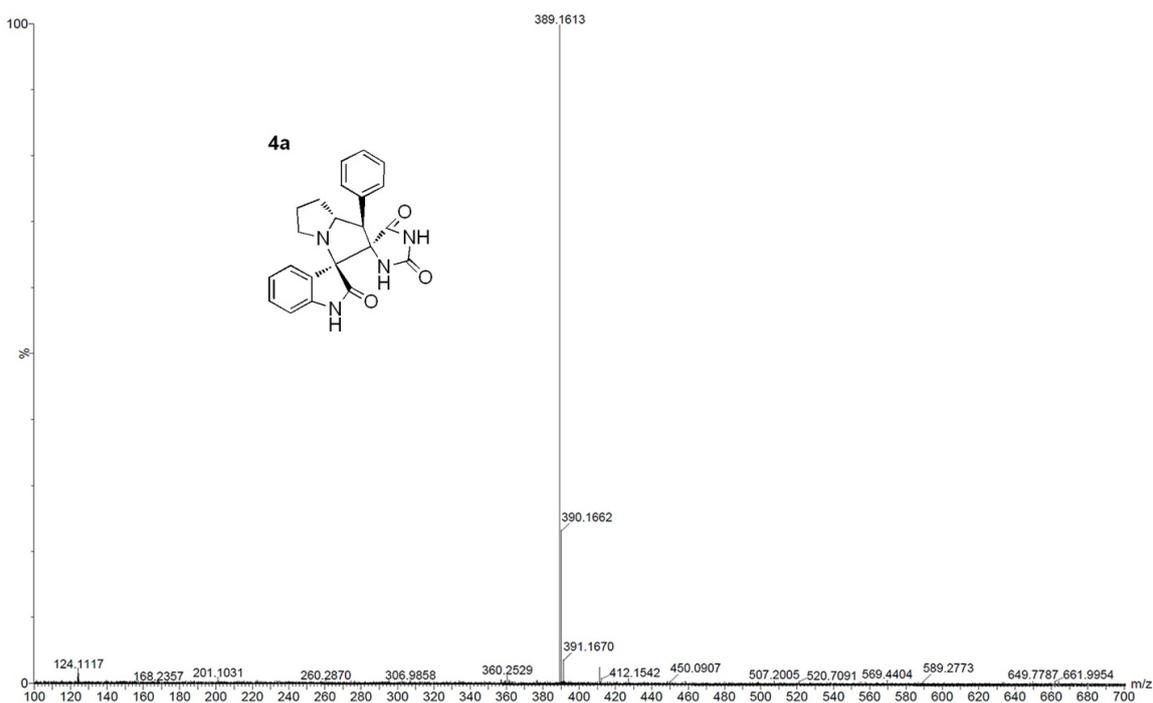
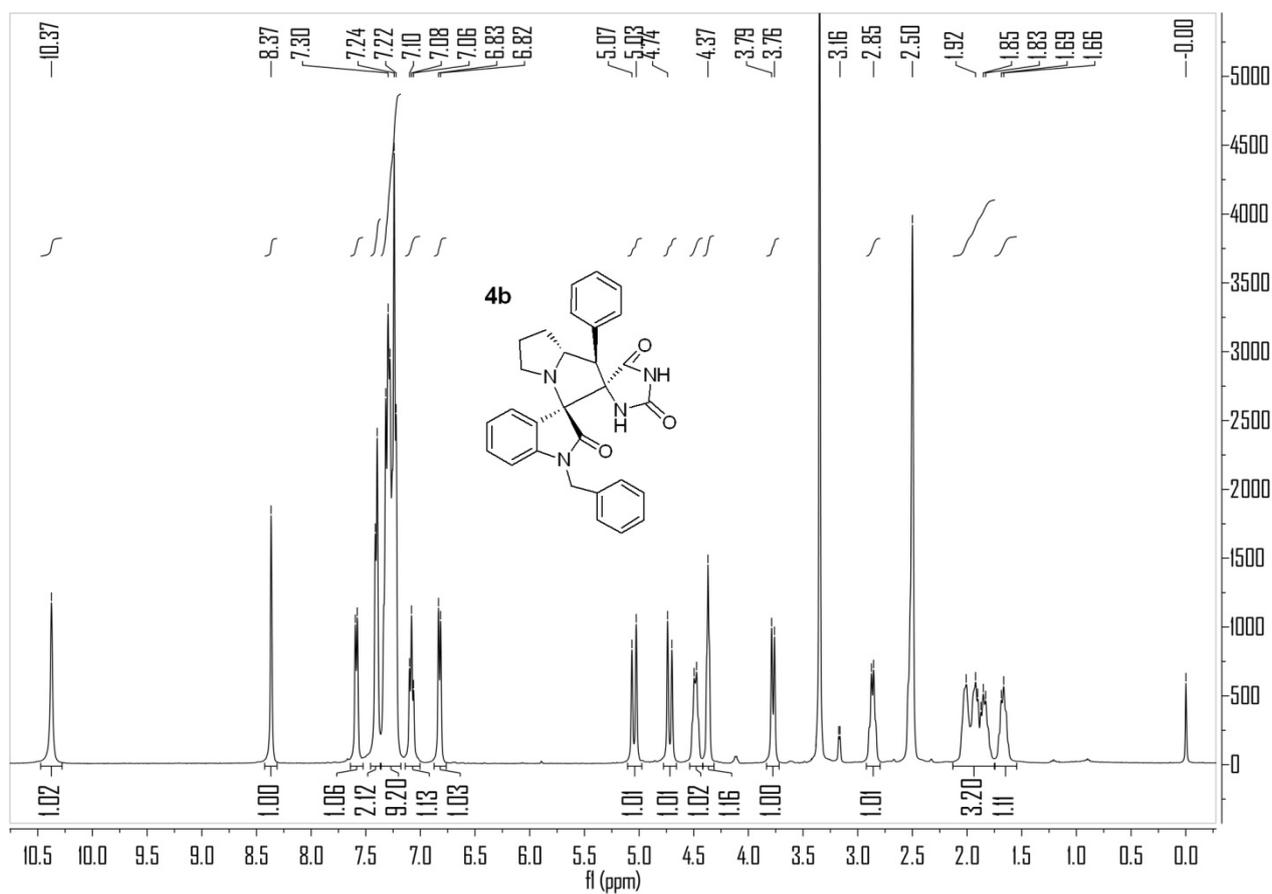
Figure S4. ¹H-NMR of Compound 4b.

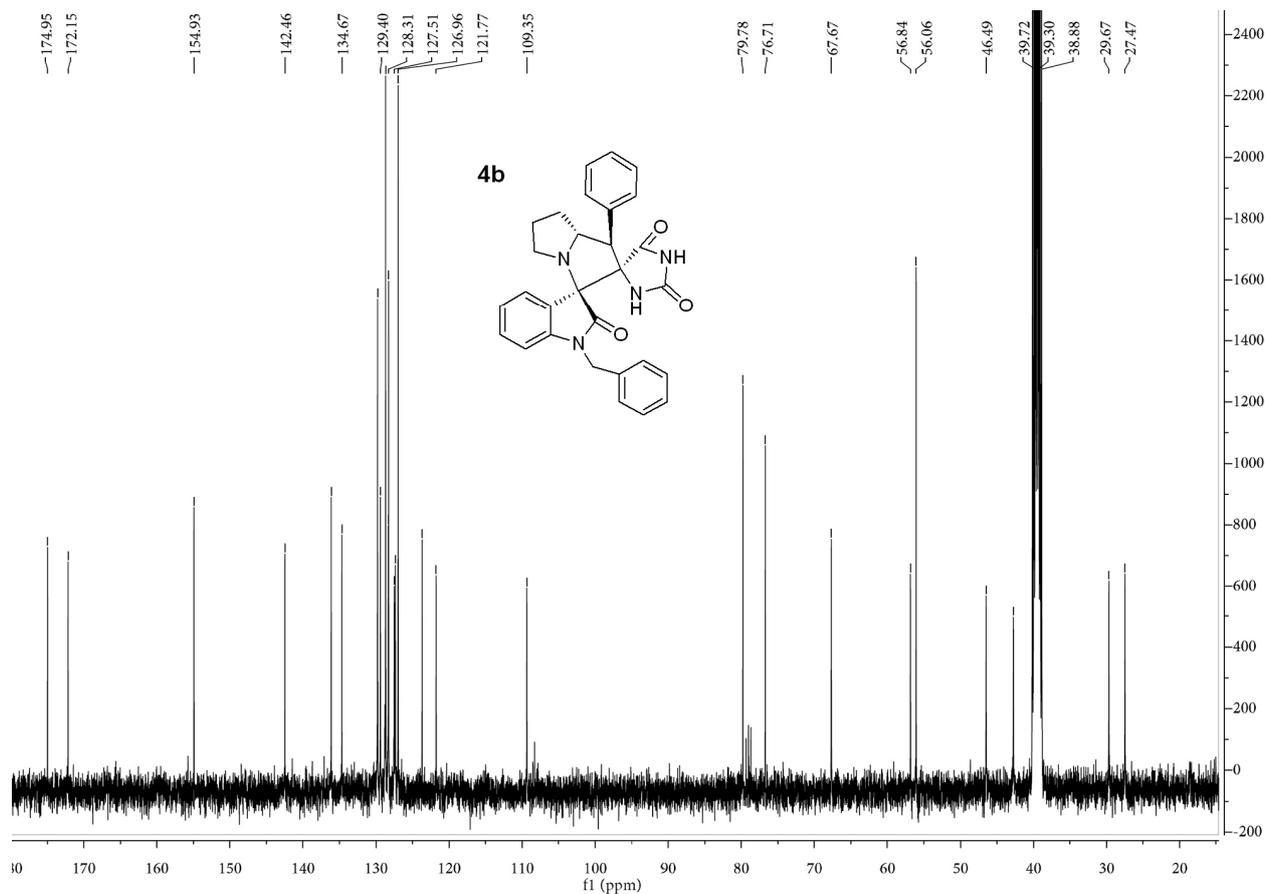
Figure S5. ^{13}C -NMR of Compound 4b.

Figure S6. HRMS of Compound 4b.

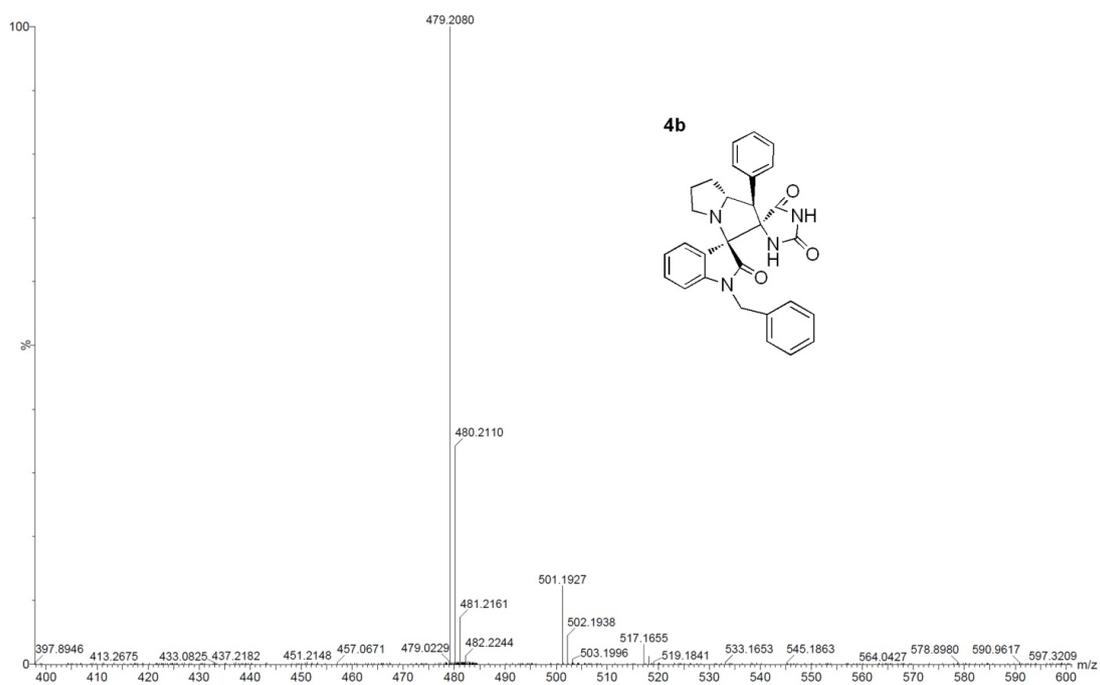


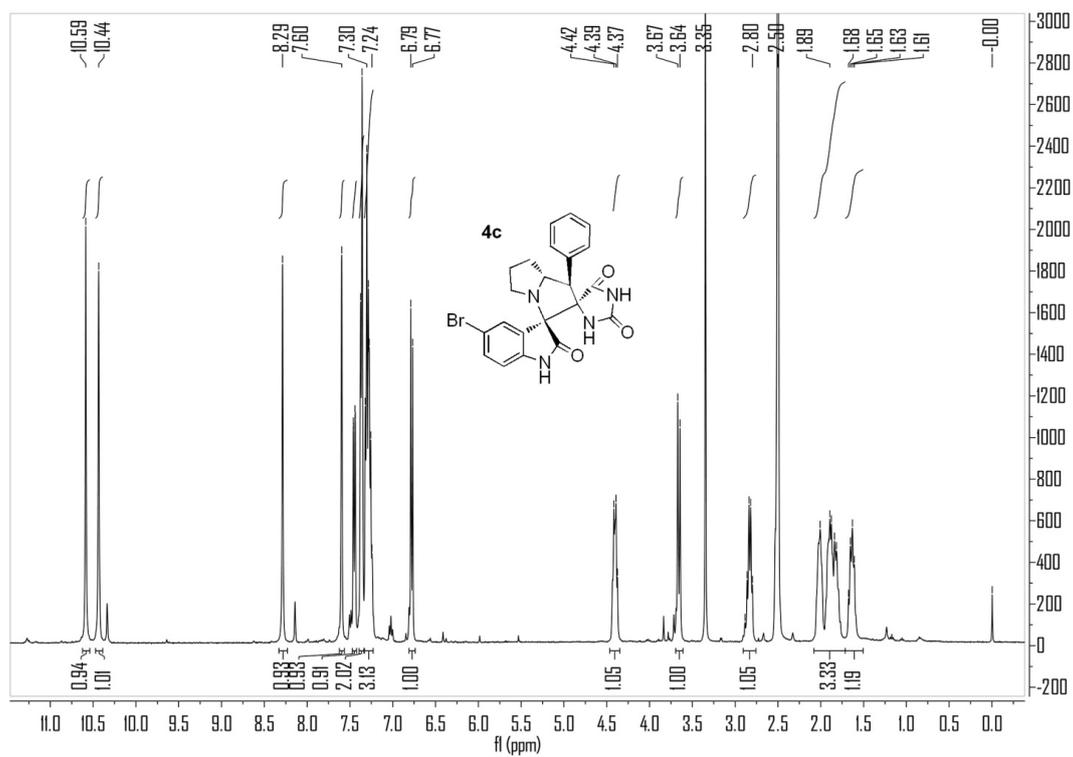
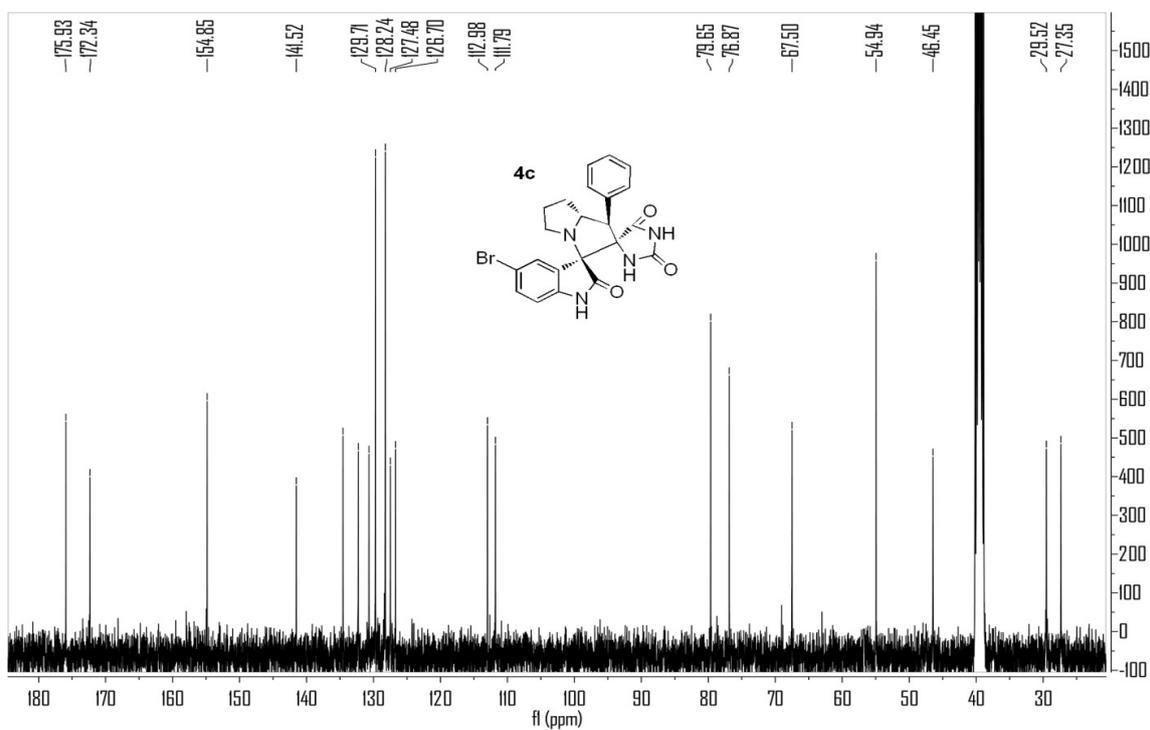
Figure S7. $^1\text{H-NMR}$ of Compound 4c.Figure S8. $^{13}\text{C-NMR}$ of Compound 4c.

Figure S9. HRMS of Compound 4c.

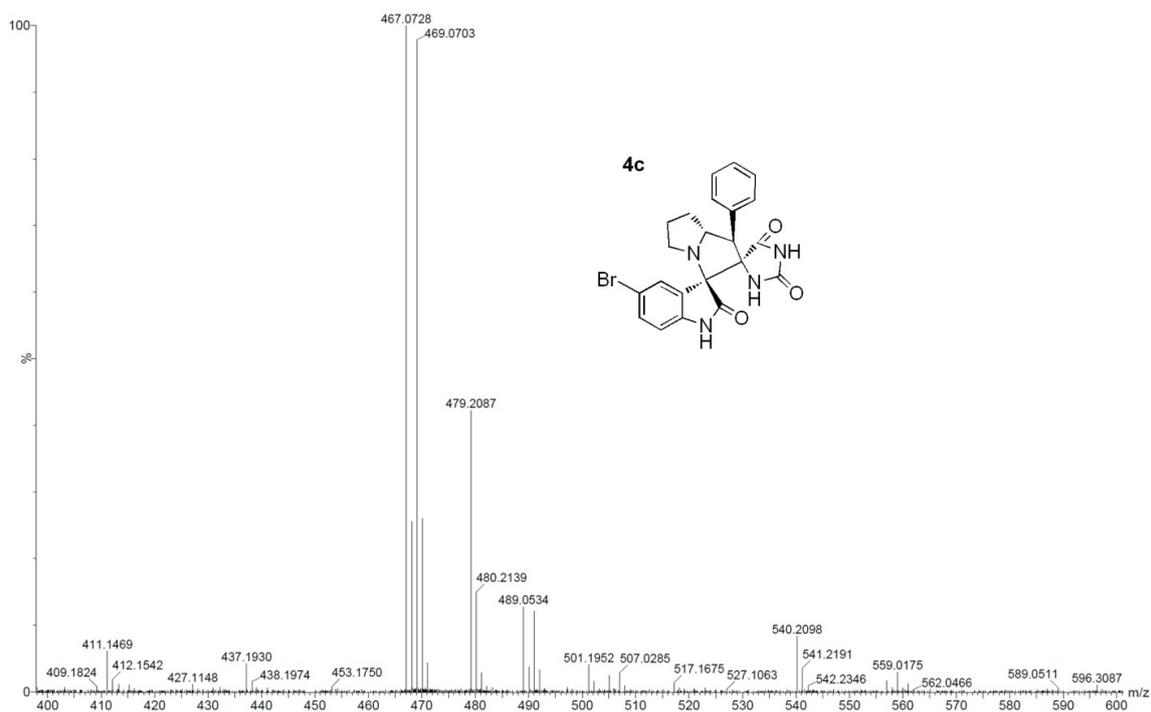
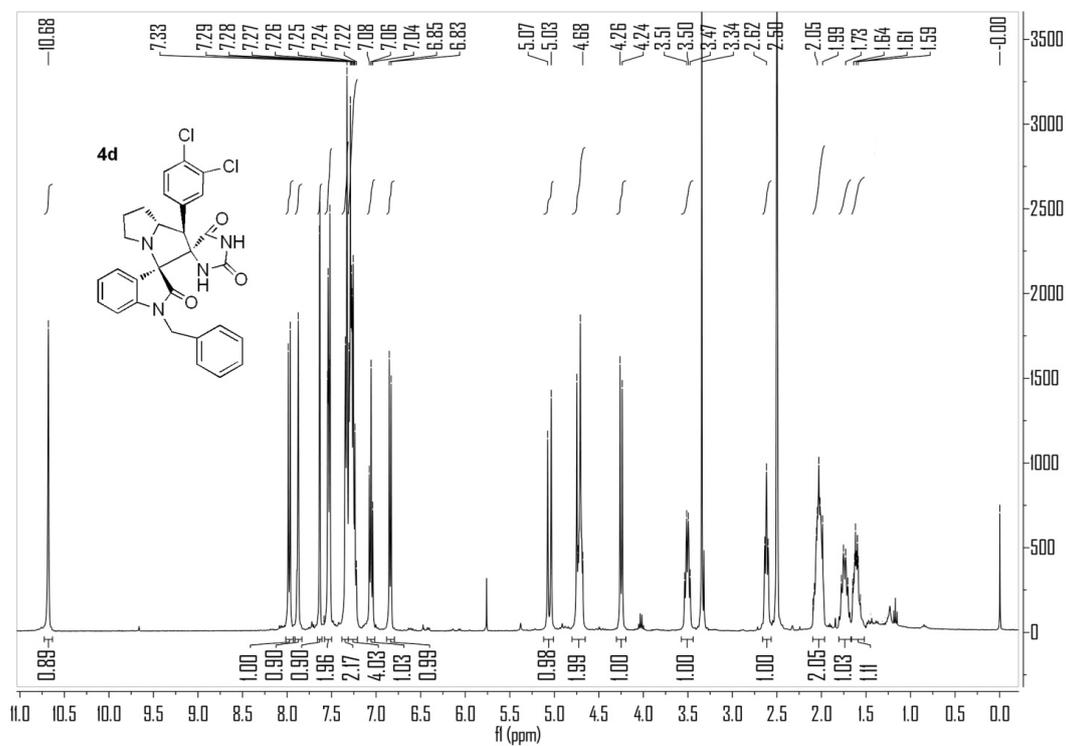
Figure S10. ¹H-NMR of Compound 4d.

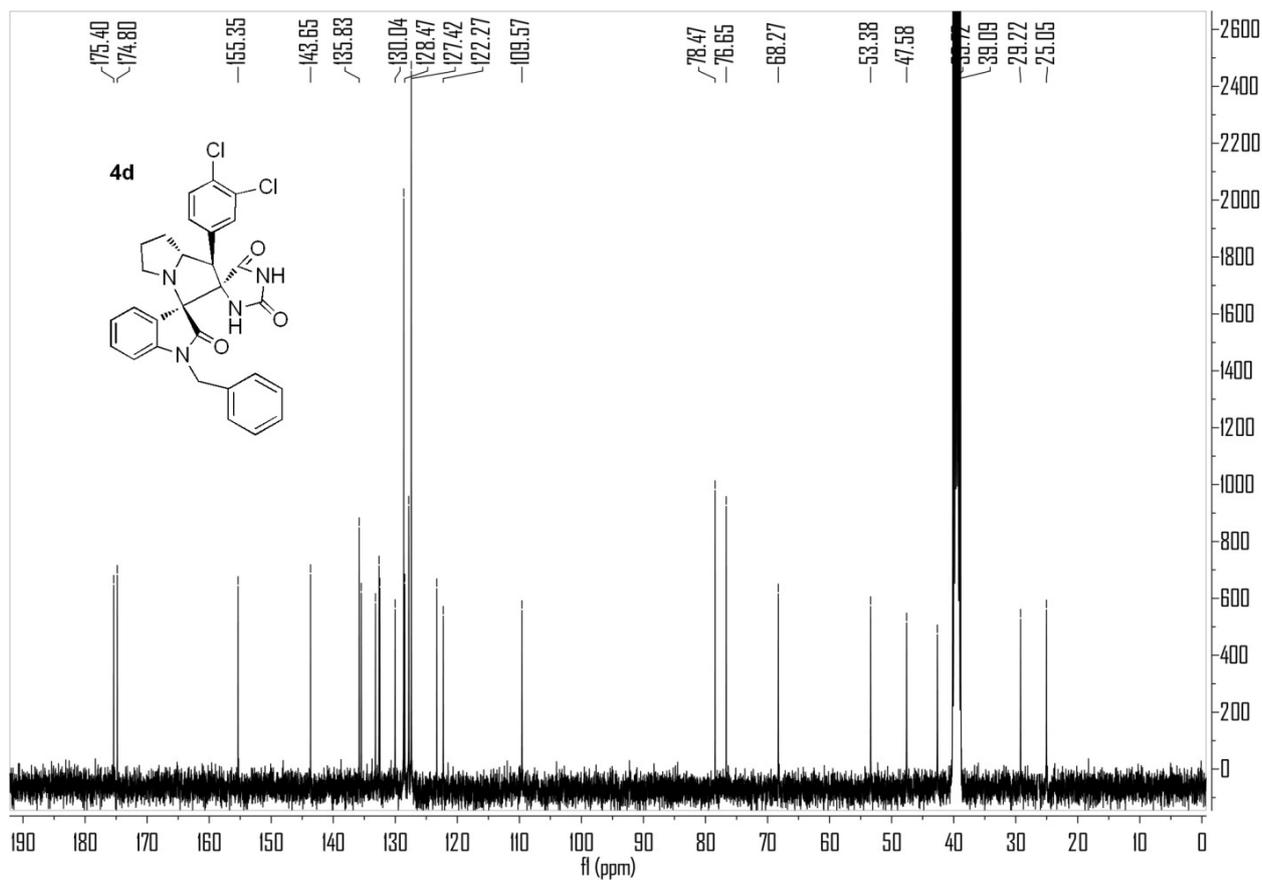
Figure S11. ^{13}C -NMR of Compound 4d.

Figure S12. HRMS of Compound 4d.

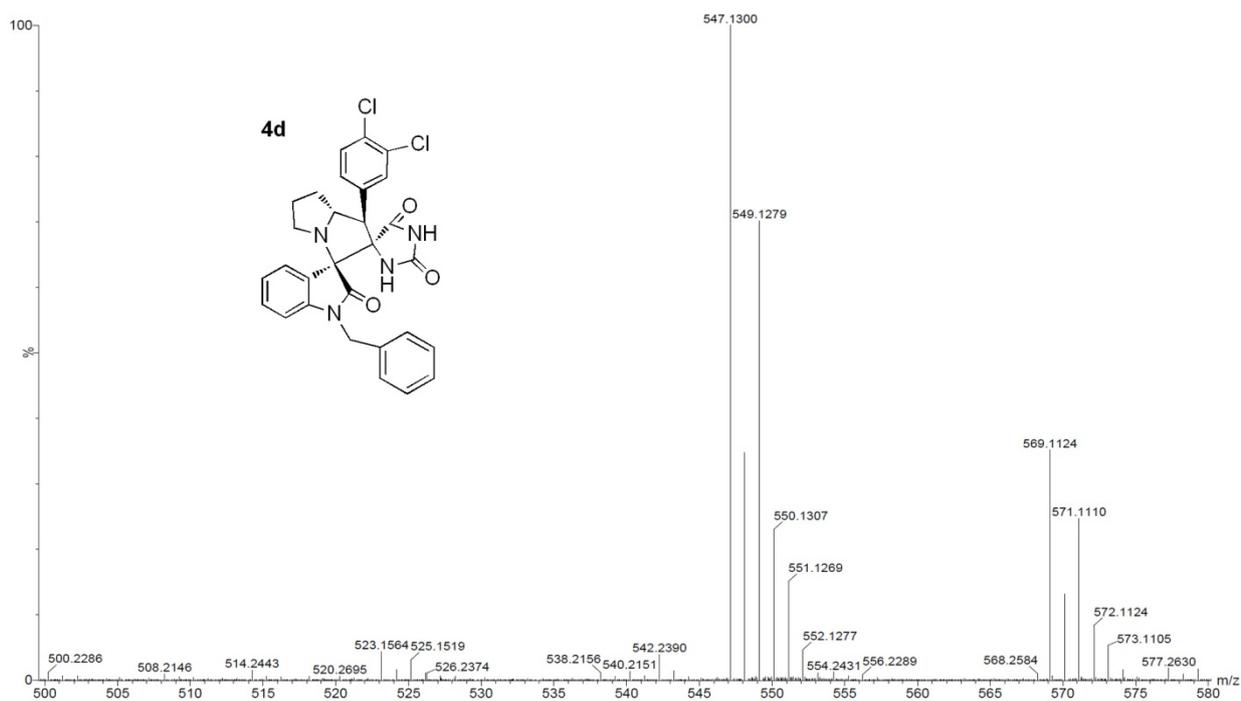


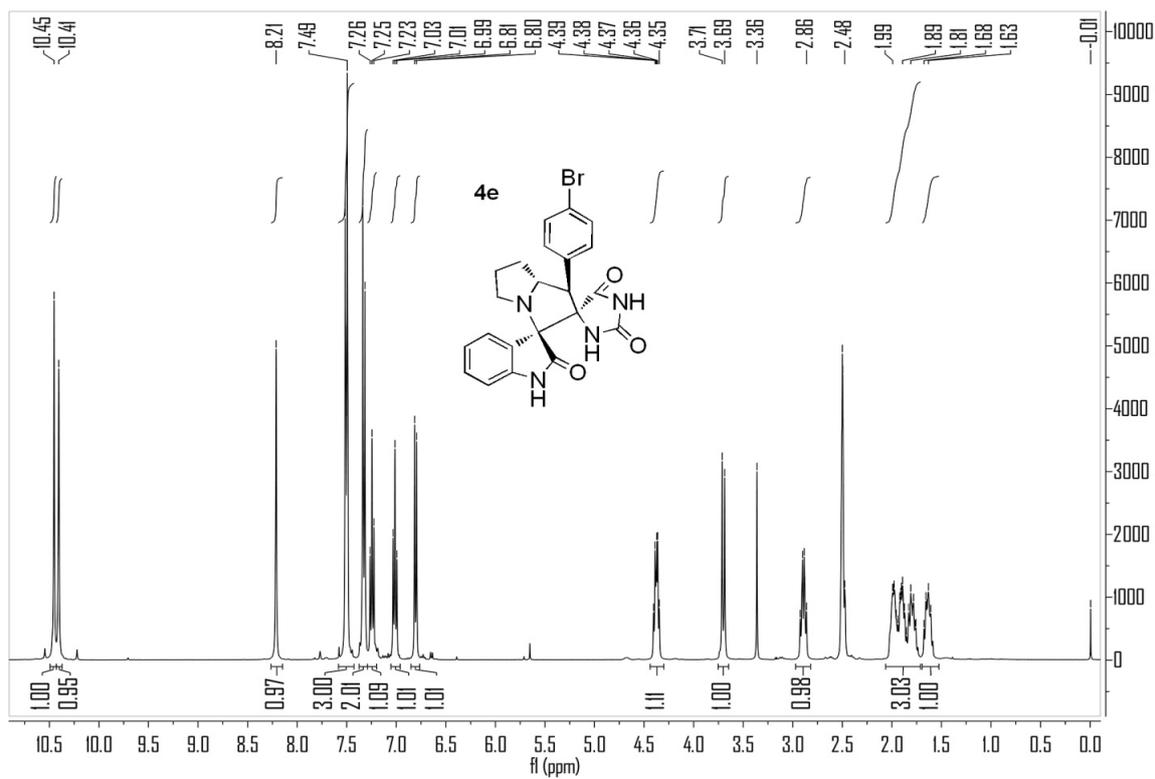
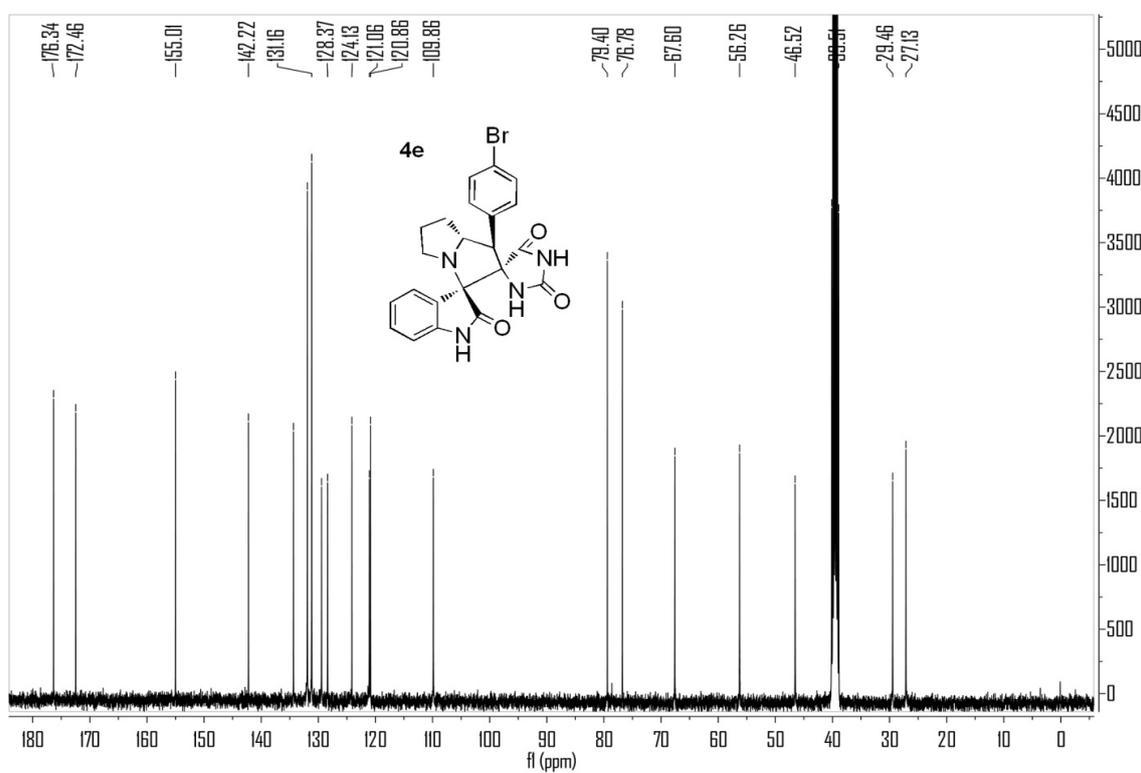
Figure S13. $^1\text{H-NMR}$ of Compound 4e.Figure S14. $^{13}\text{C-NMR}$ of Compound 4e.

Figure S15. HRMS of Compound 4e.

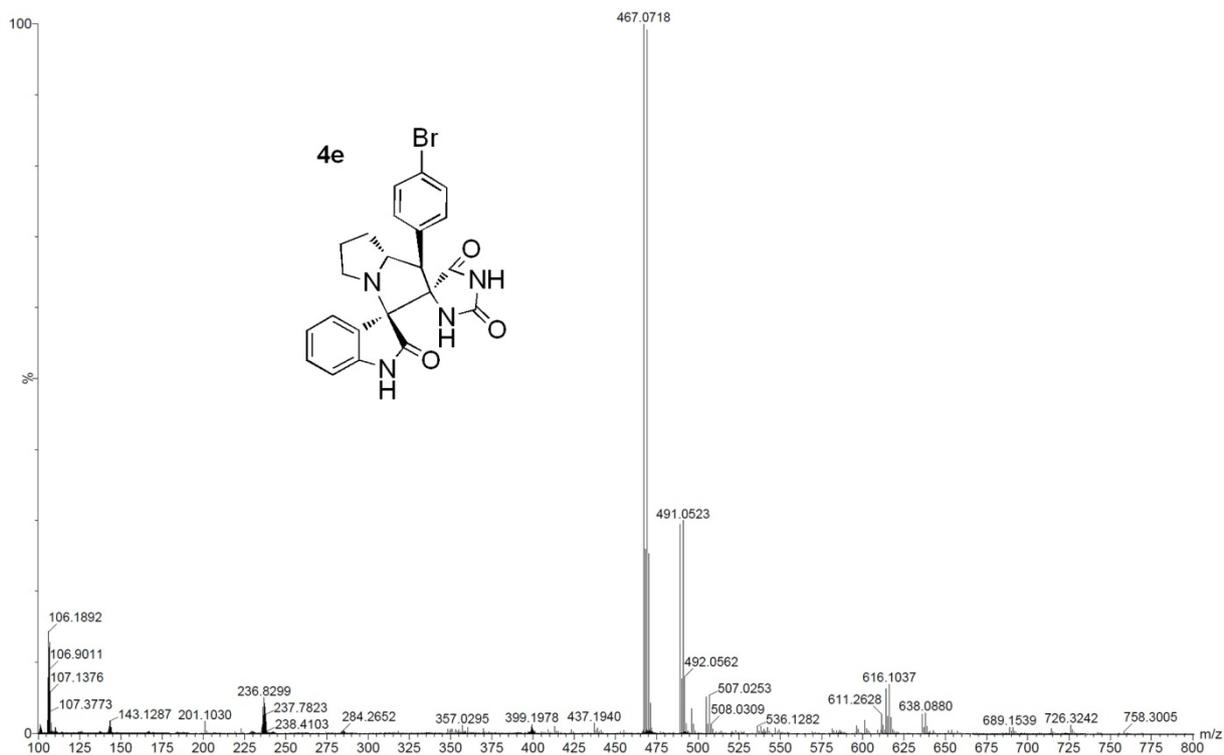
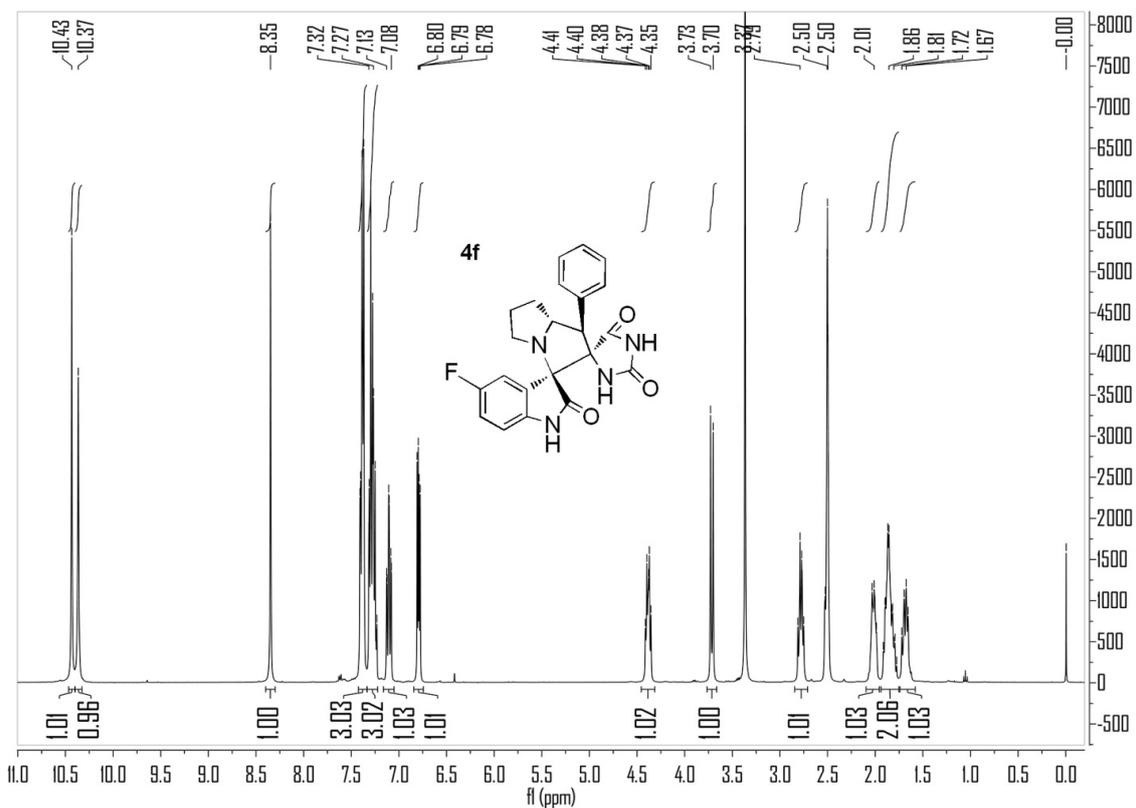
Figure S16. ¹H-NMR of Compound 4f.

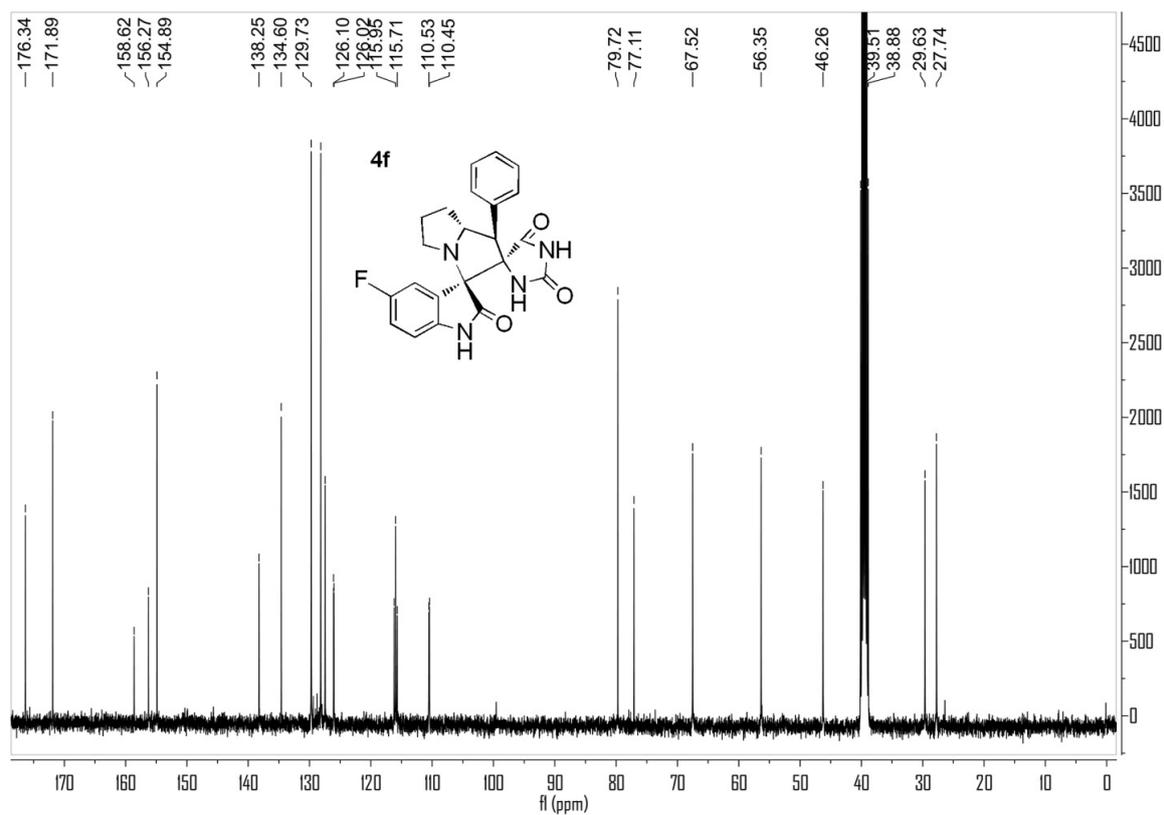
Figure S17. ^{13}C -NMR of Compound 4f.

Figure S18. HRMS of Compound 4f.

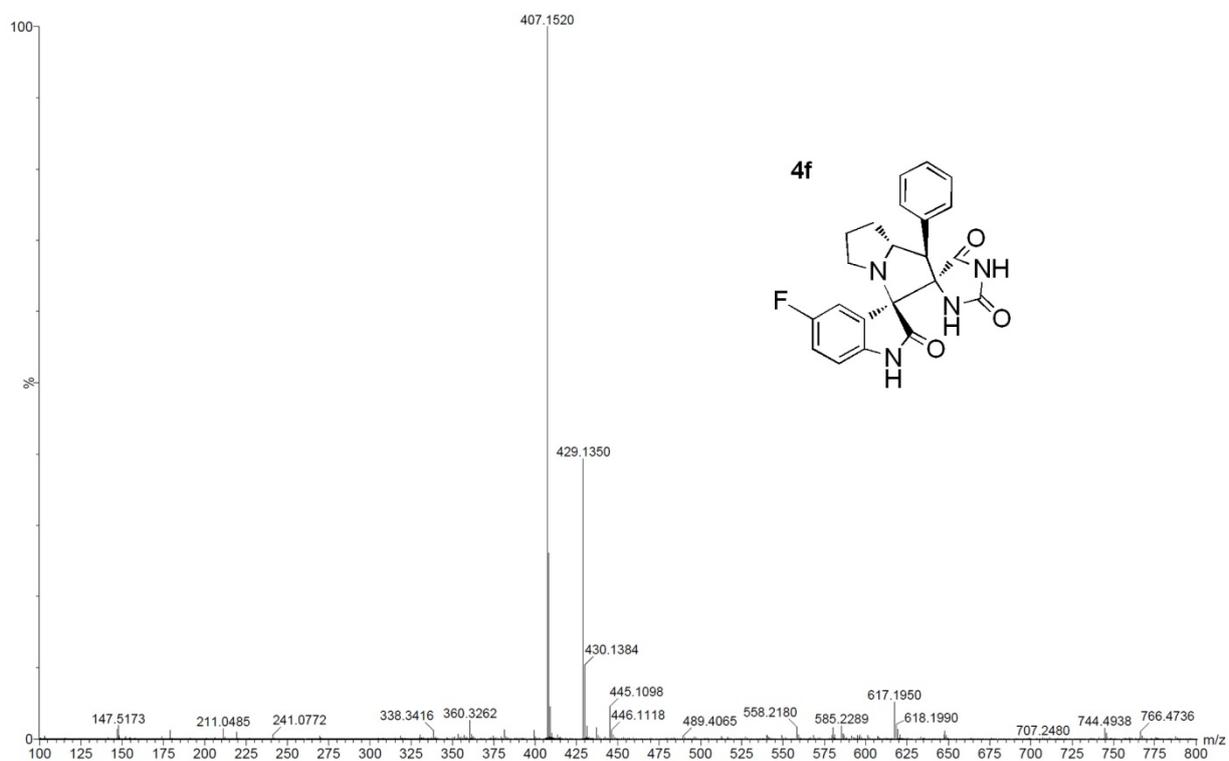


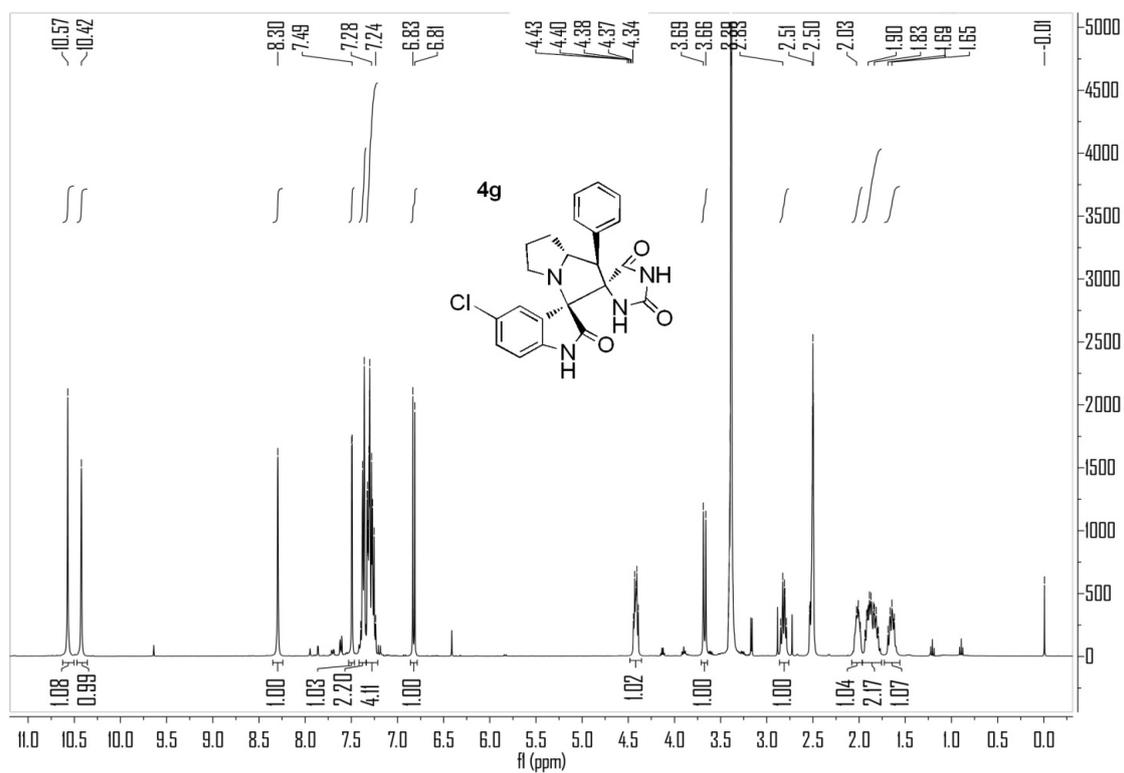
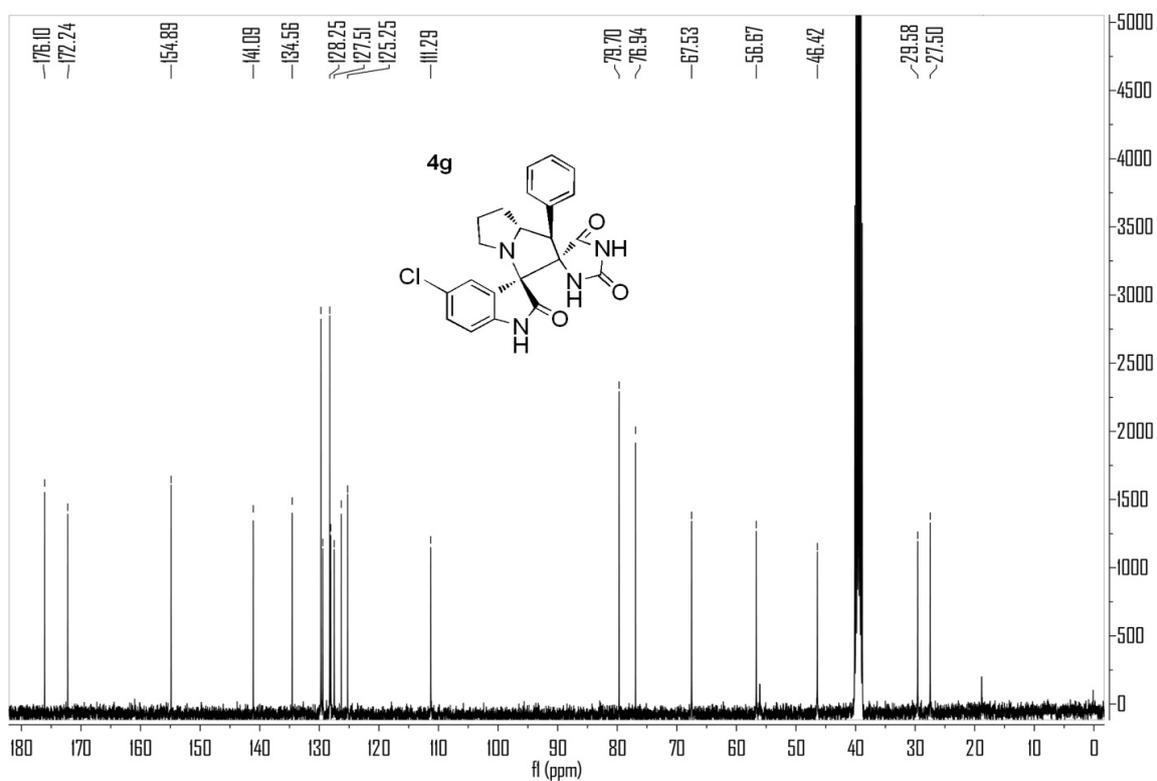
Figure S19. $^1\text{H-NMR}$ of Compound **4g**.Figure S20. $^{13}\text{C-NMR}$ of Compound **4g**.

Figure S21. HRMS of Compound 4g.

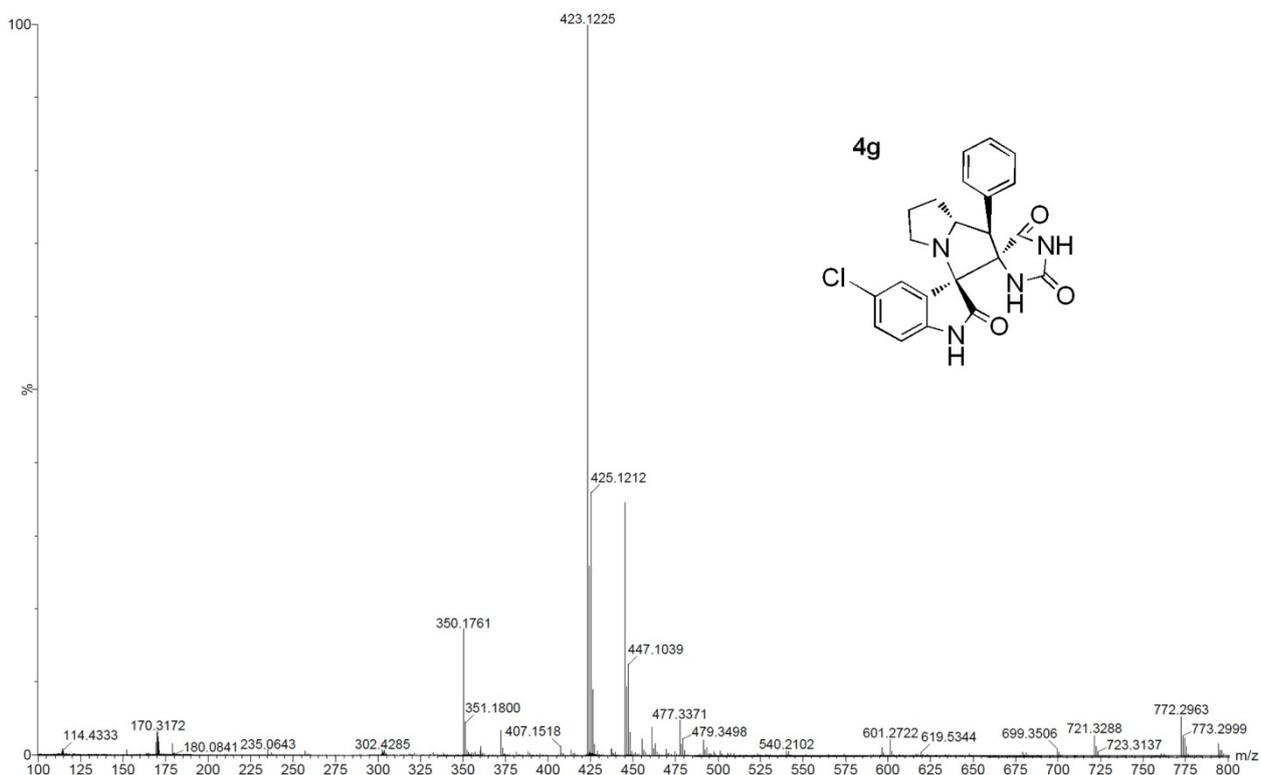
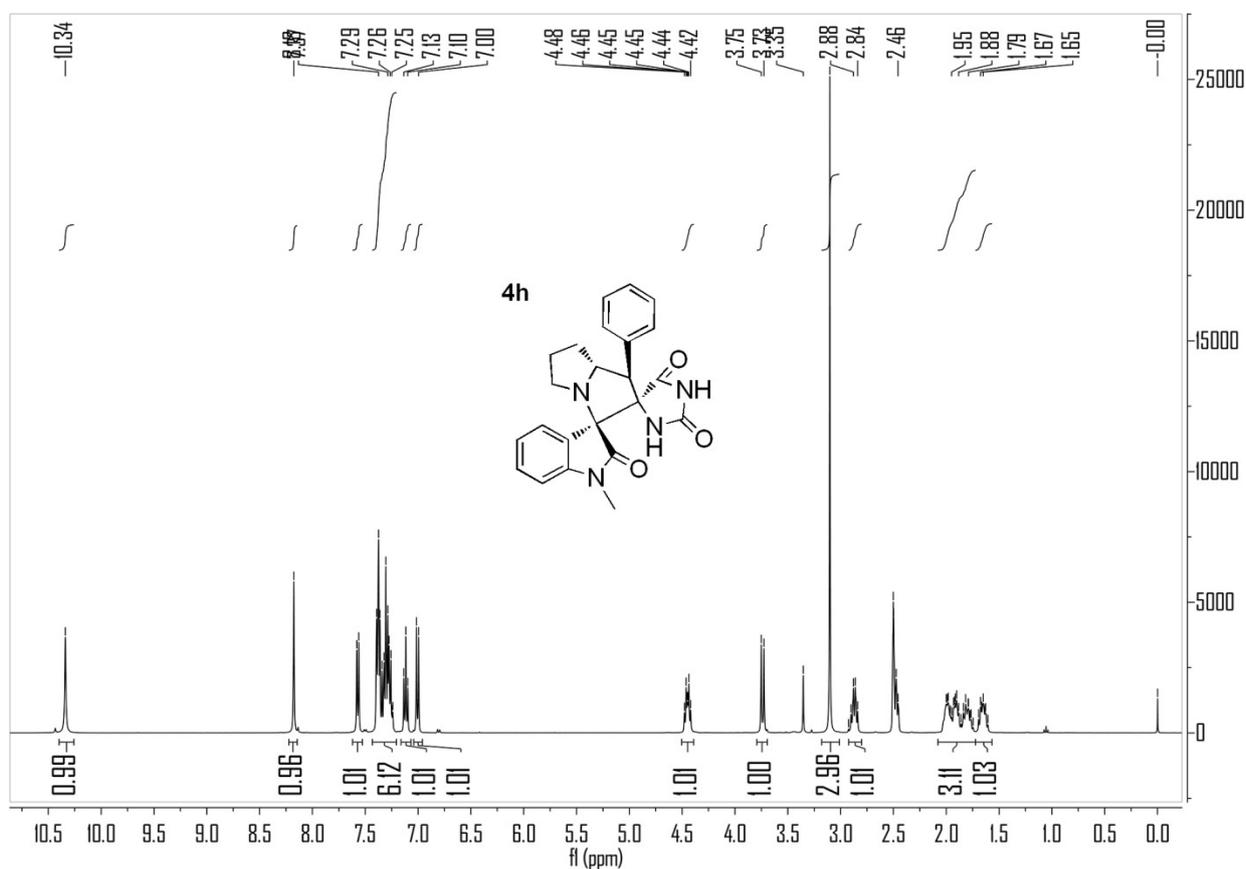
Figure S22. ¹H-NMR of Compound 4h.

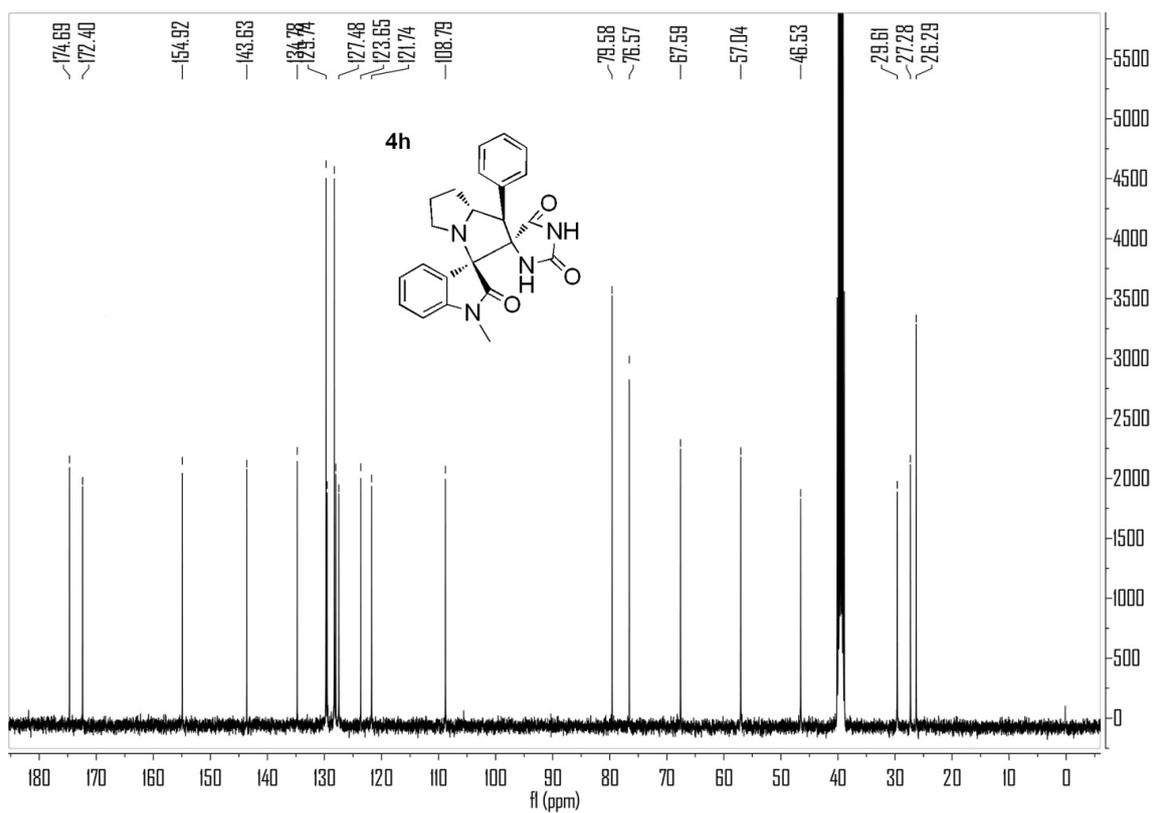
Figure S23. ^{13}C -NMR of Compound 4h.

Figure S24. HRMS of Compound 4h.

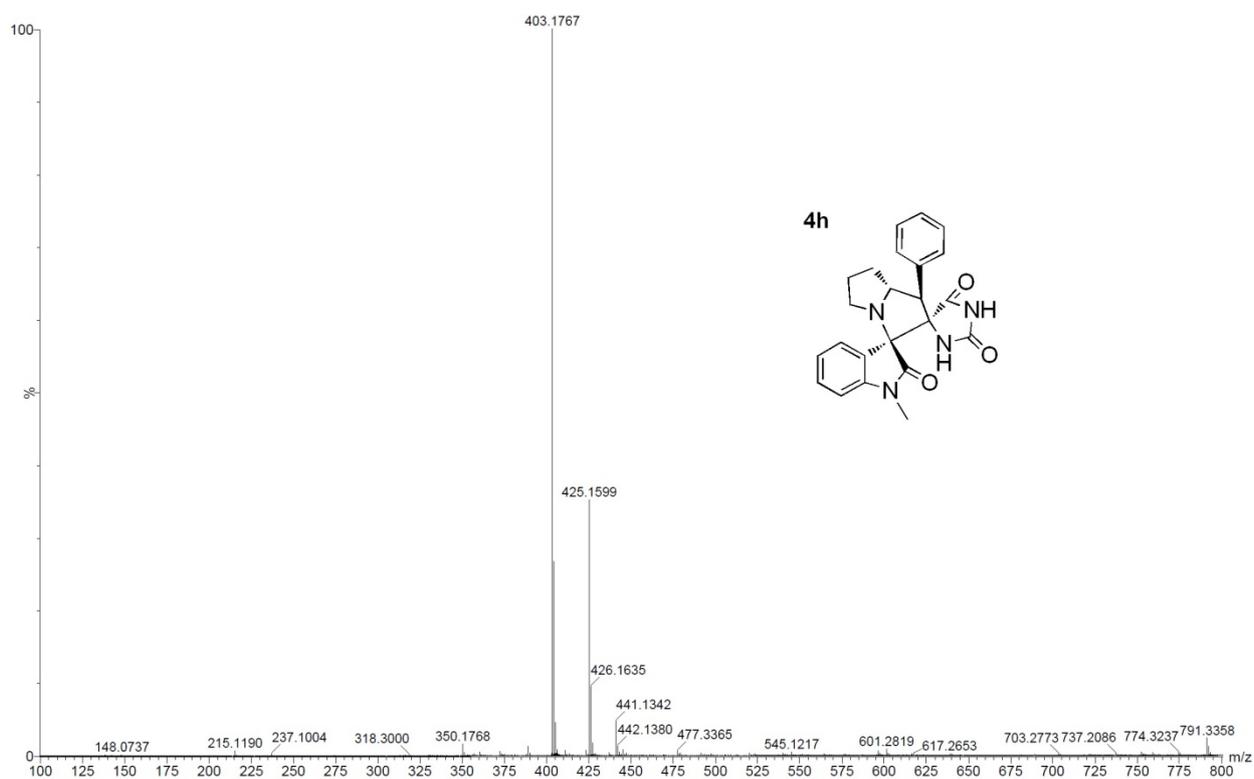


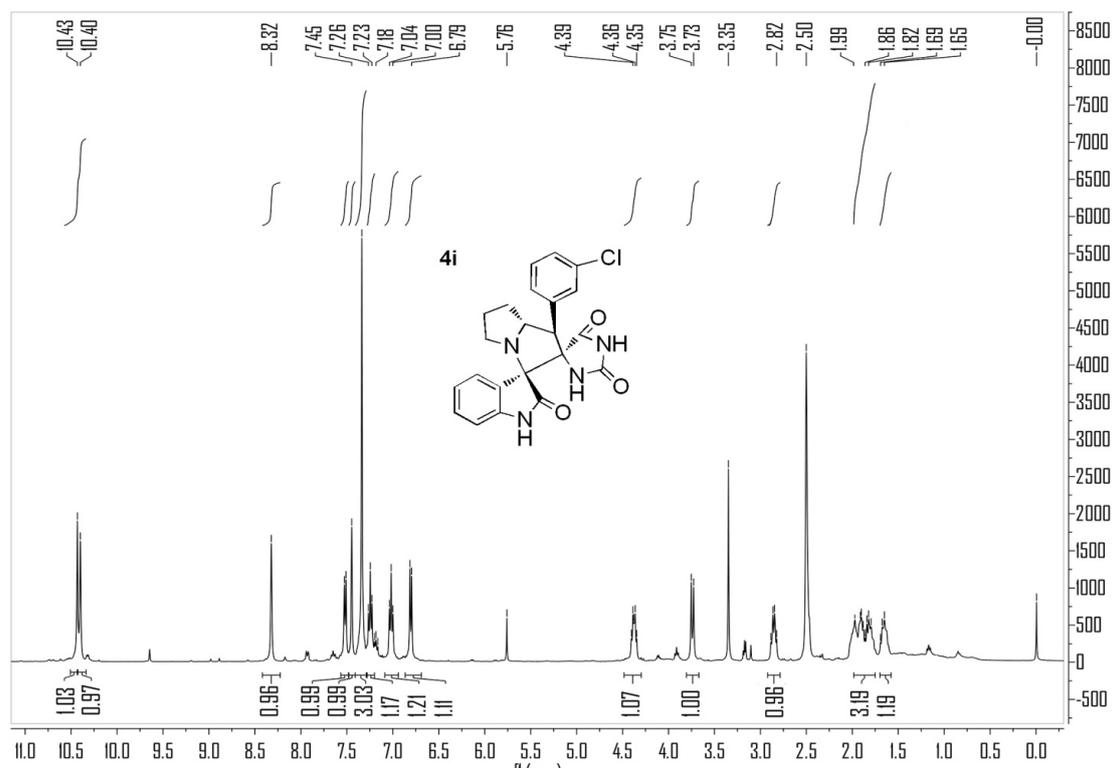
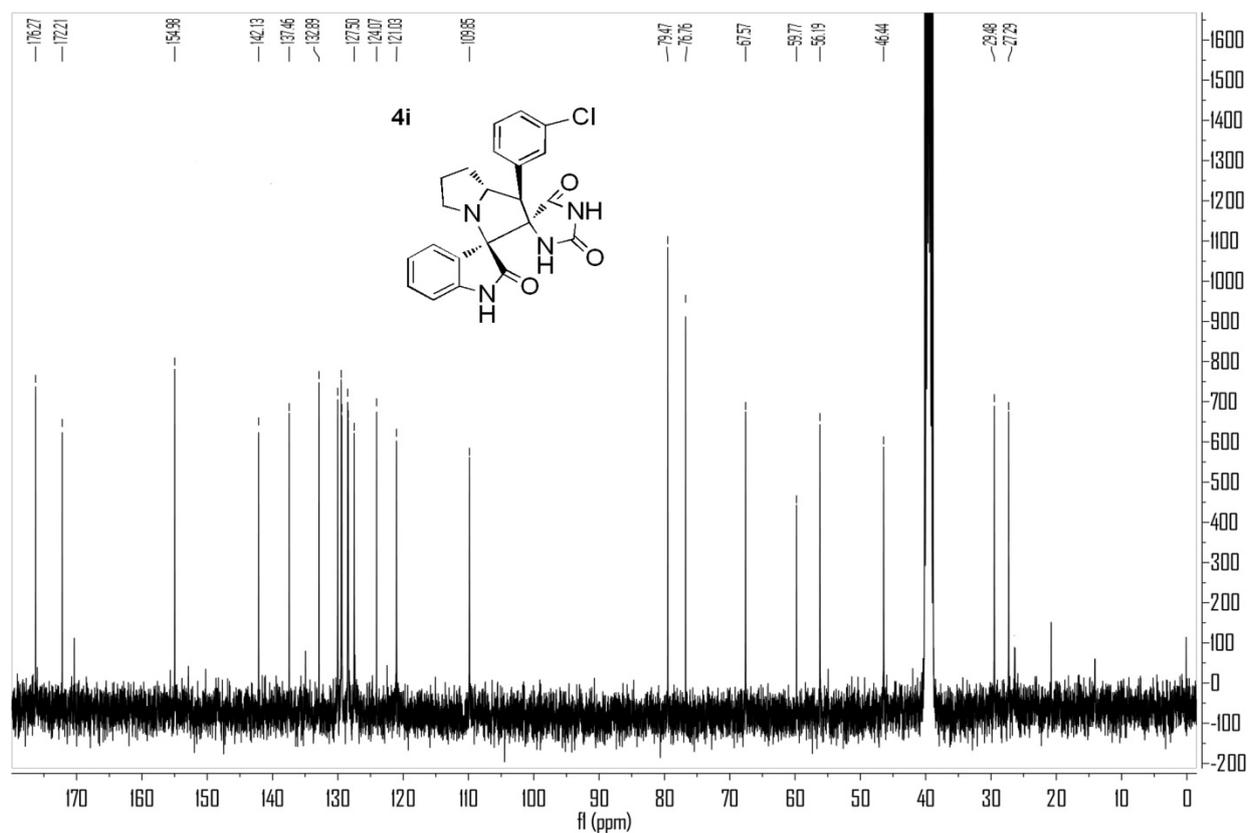
Figure S25. $^1\text{H-NMR}$ of Compound 4i.Figure S26. $^{13}\text{C-NMR}$ of Compound 4h.

Figure S27. HRMS of Compound 4i.

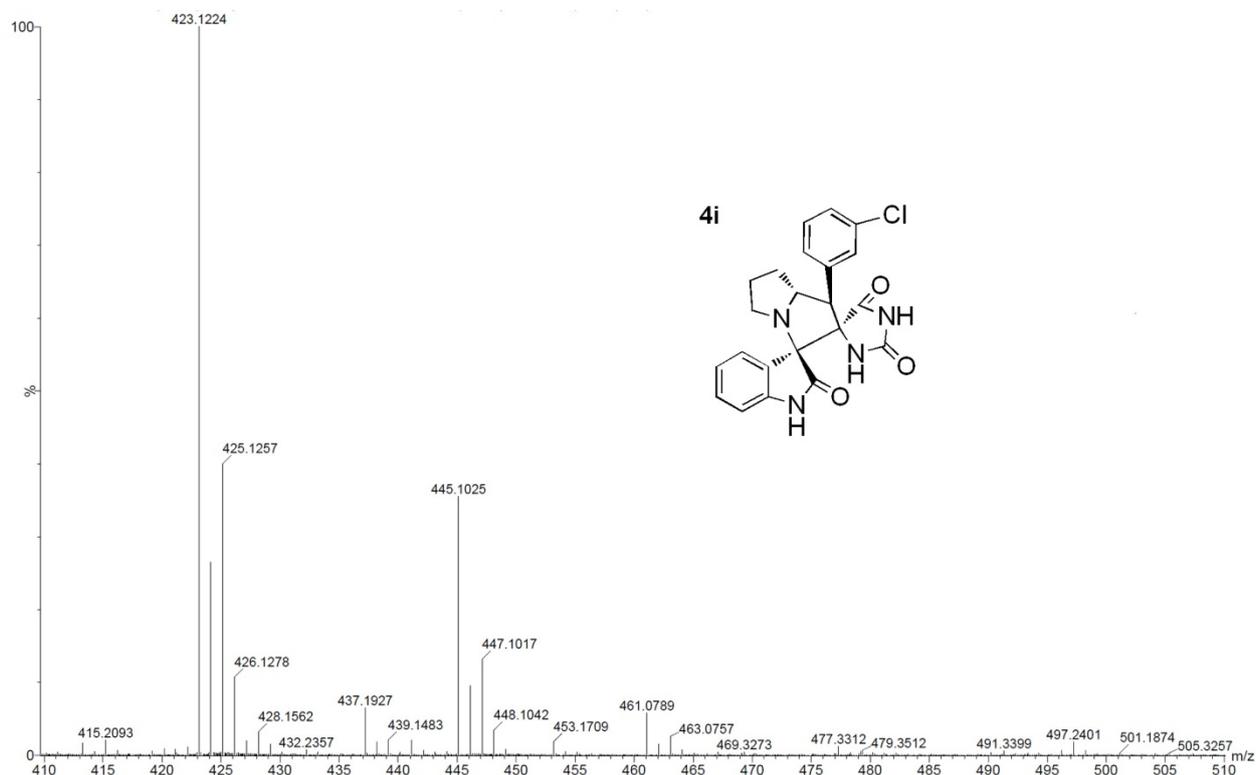
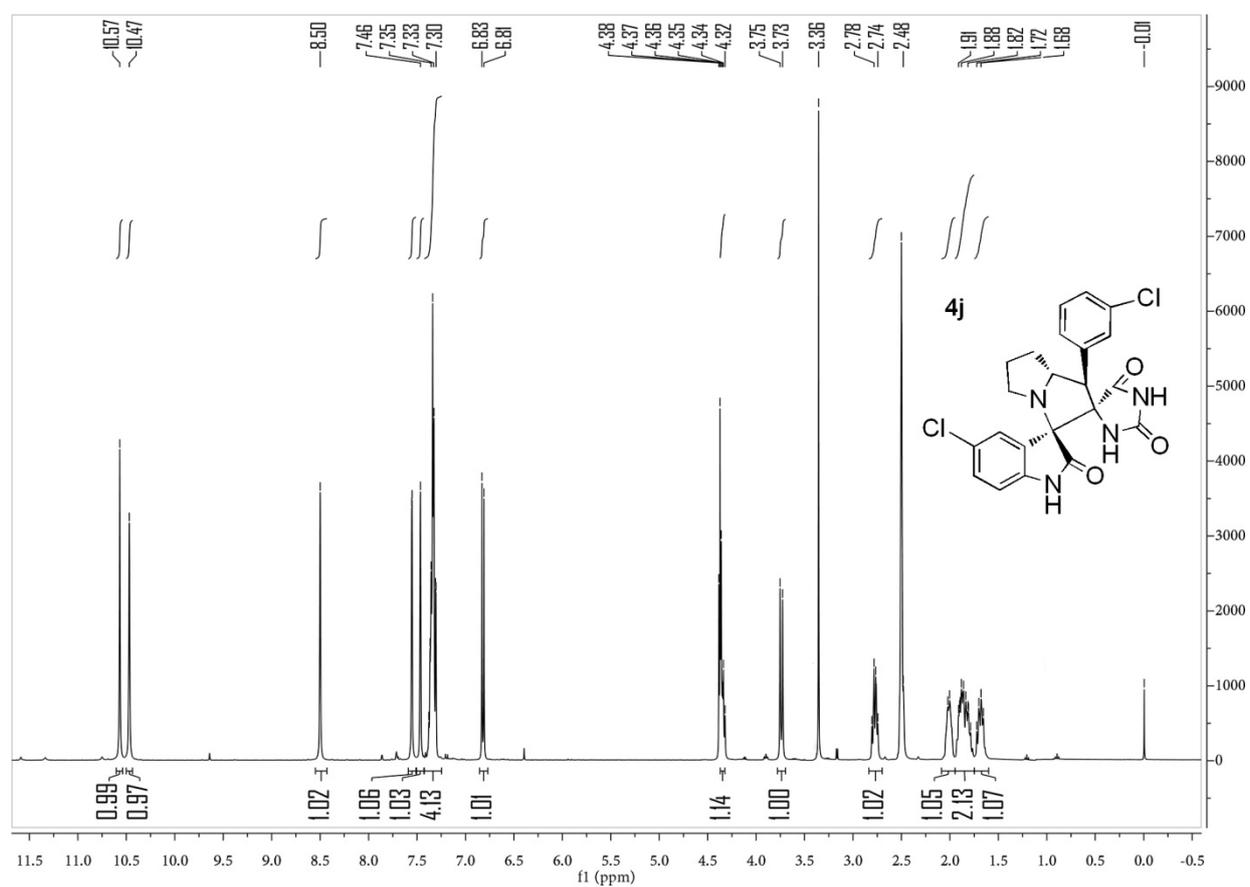
Figure S28. $^1\text{H-NMR}$ of Compound 4j.

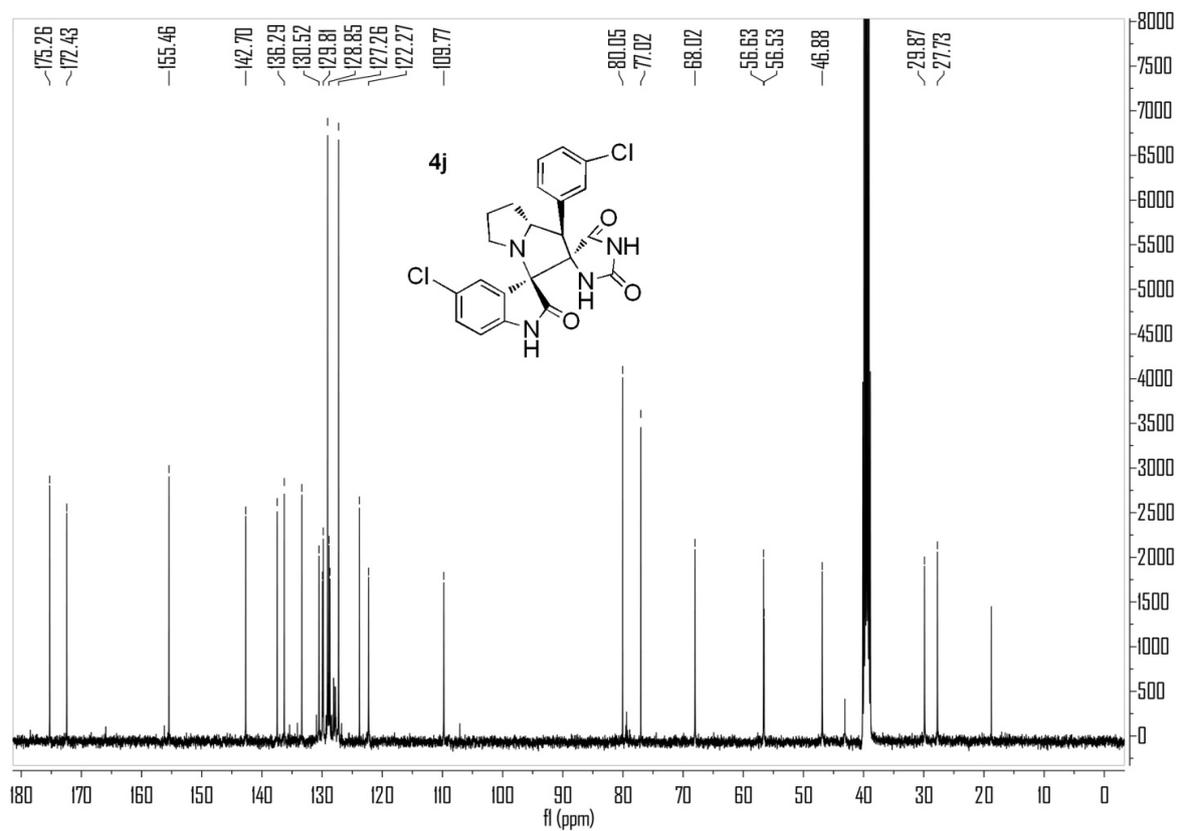
Figure S29. ^{13}C -NMR of Compound 4j.

Figure S30. HRMS of Compound 4j.

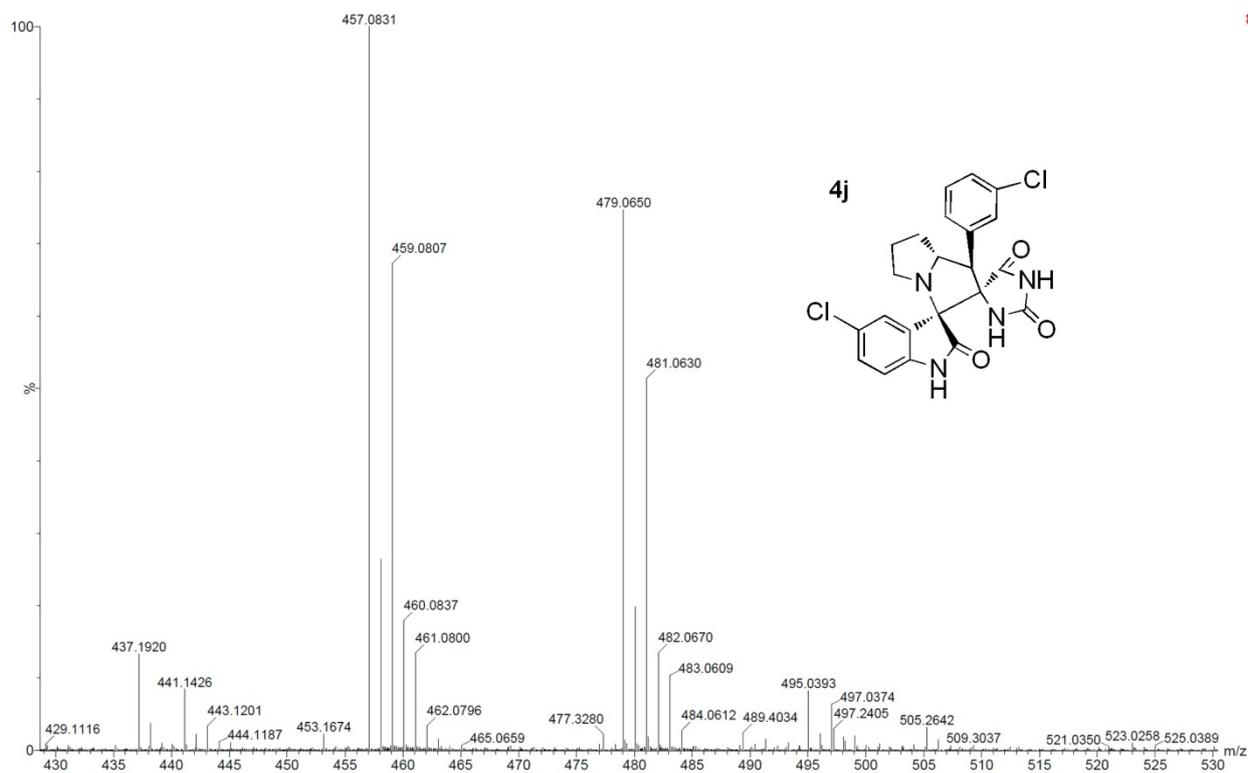


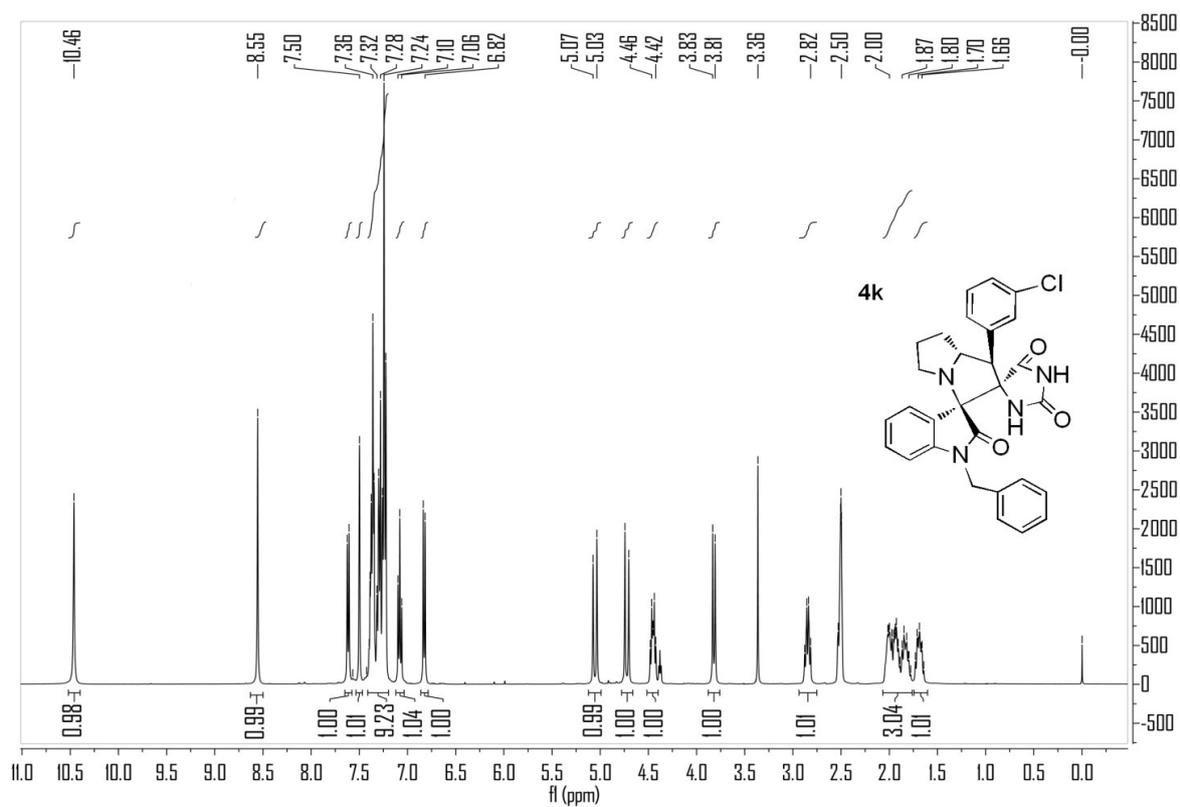
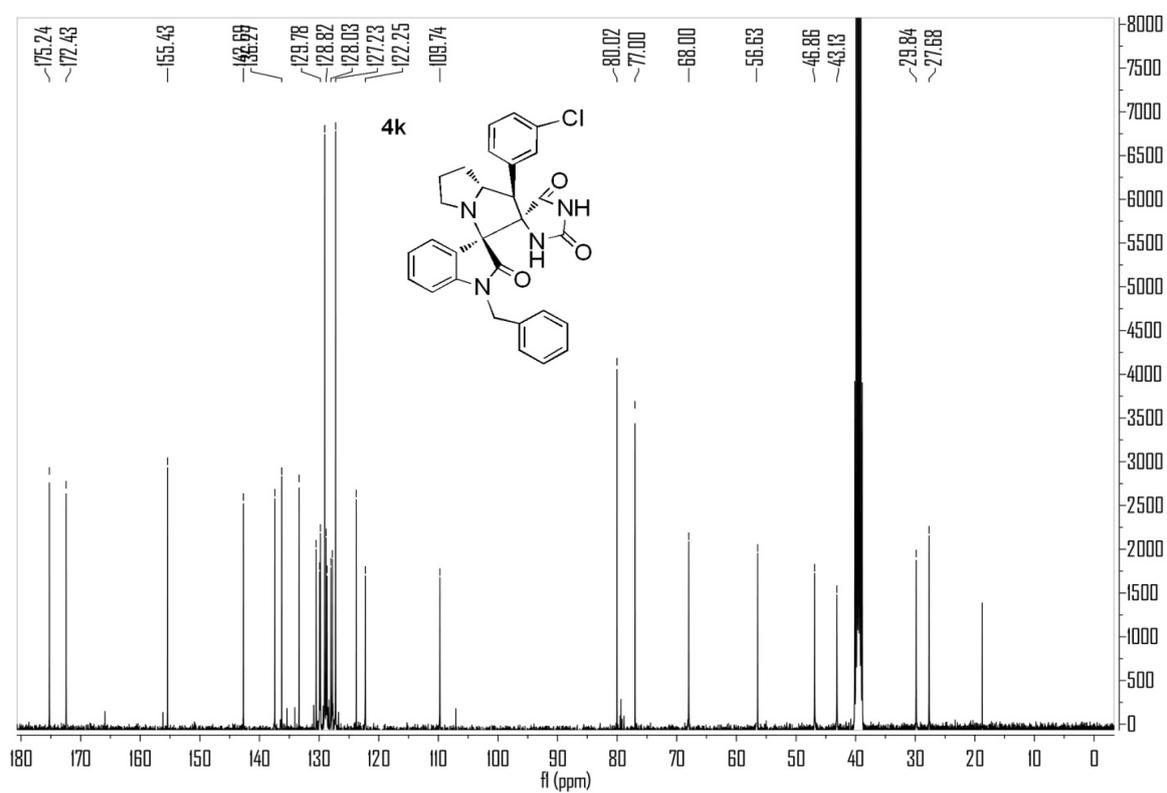
Figure S31. $^1\text{H-NMR}$ of Compound 4k.Figure S32. $^{13}\text{C-NMR}$ of Compound 4k.

Figure S33. HRMS of Compound 4k.

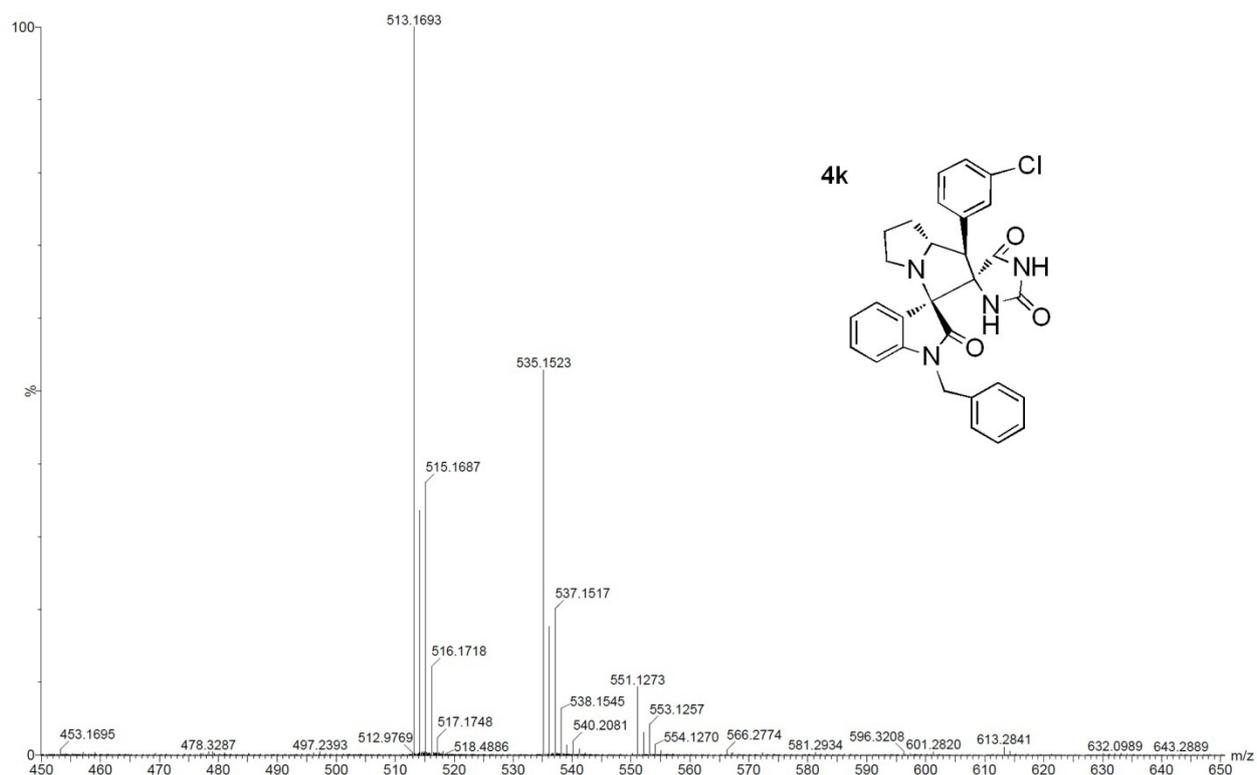
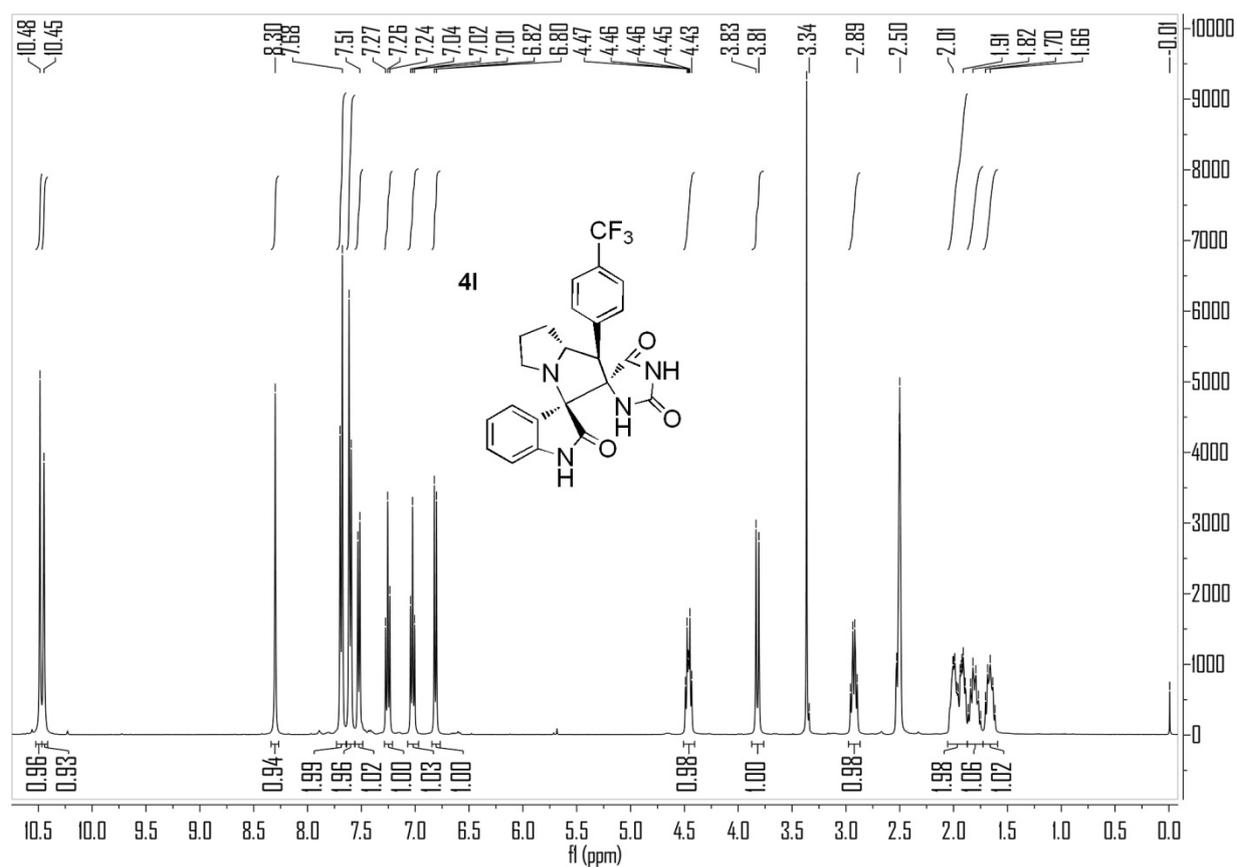
Figure S34. ¹H-NMR of Compound 4l.

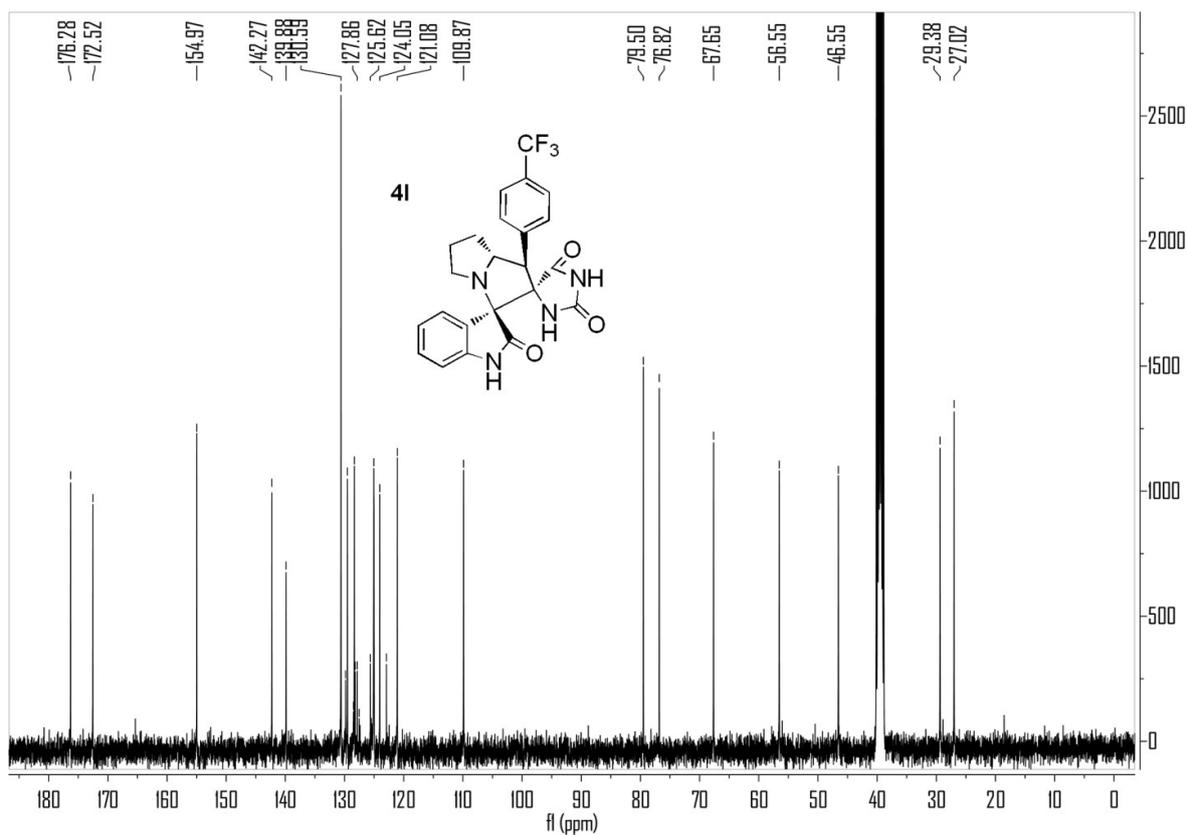
Figure S35. ^{13}C -NMR of Compound 4I.

Figure S36. HRMS of Compound 4I.

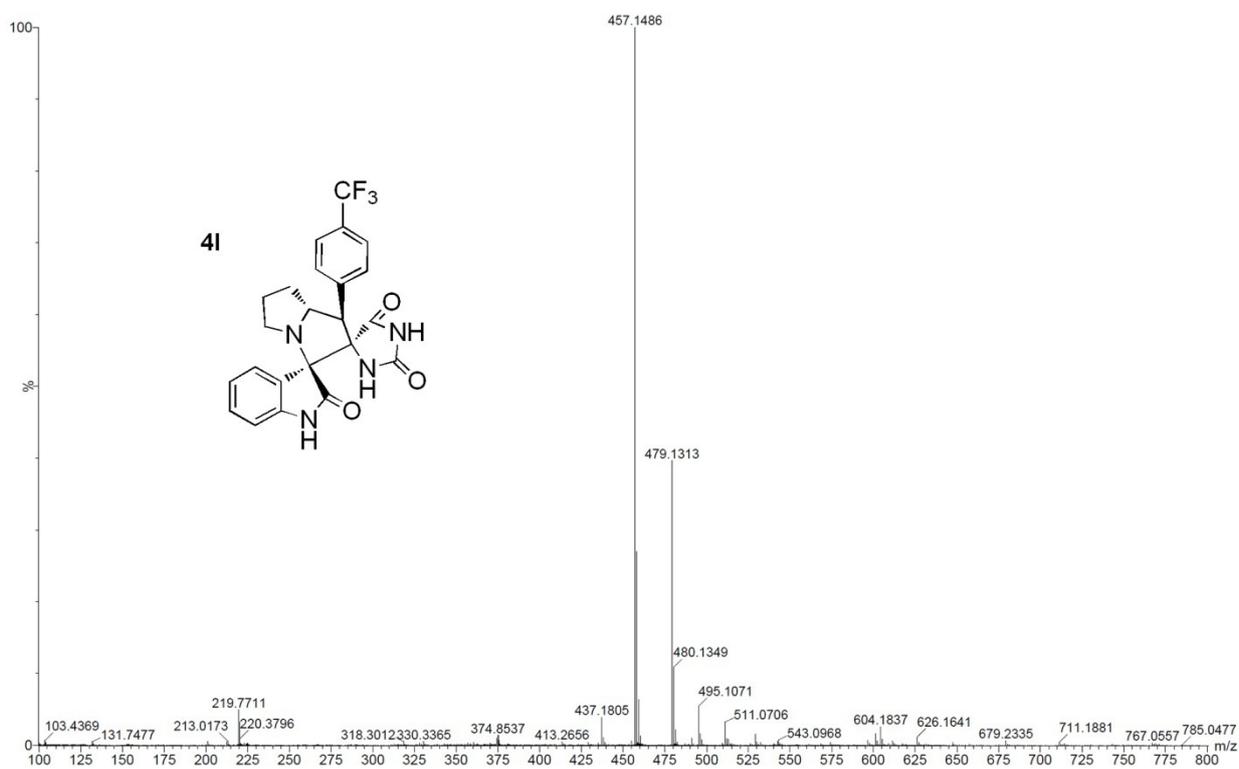


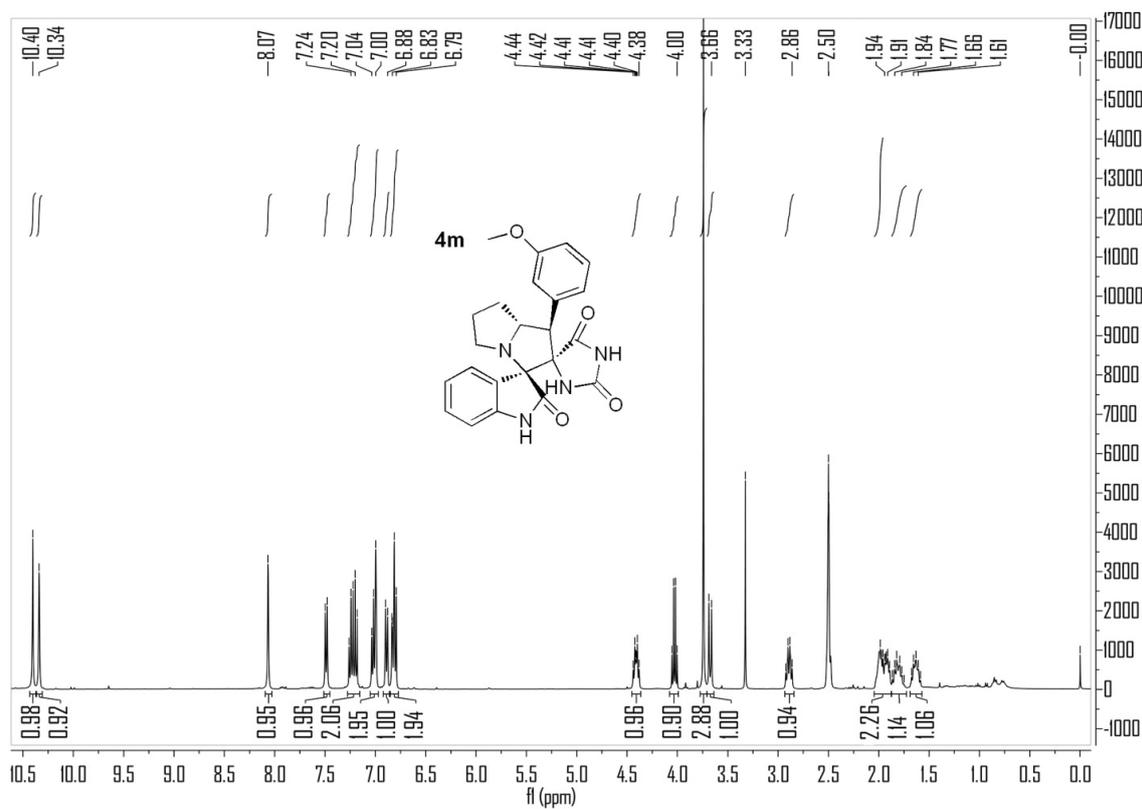
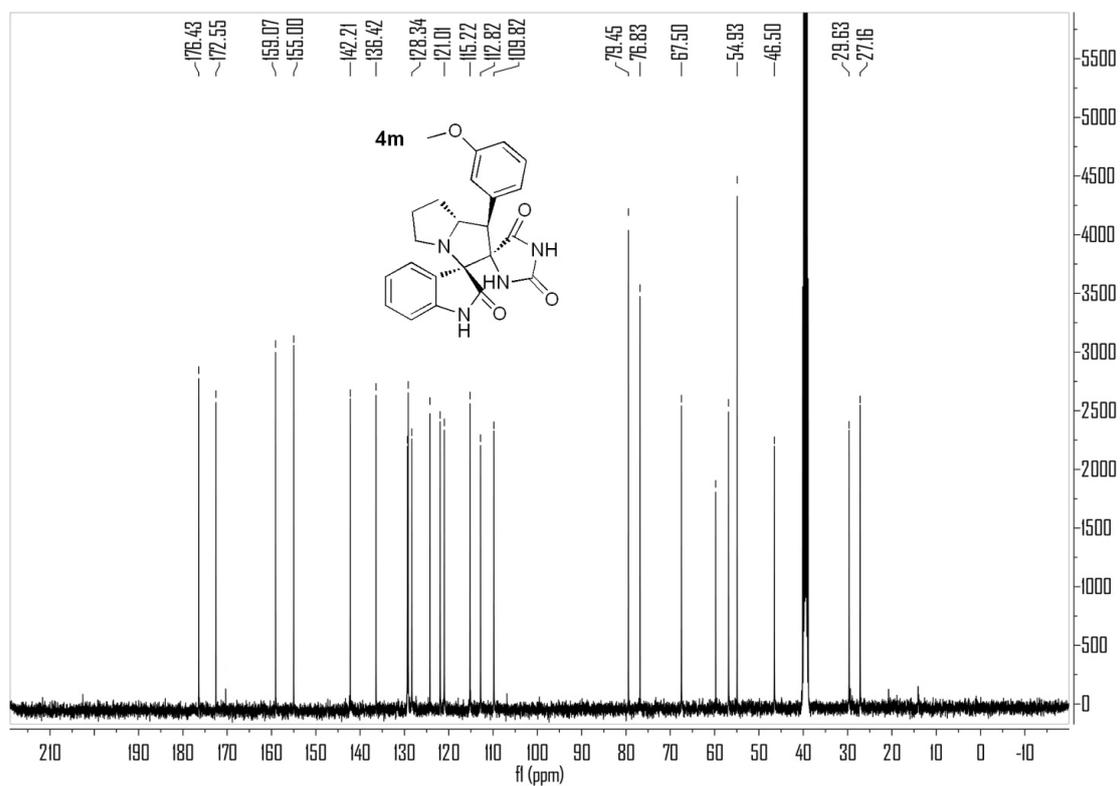
Figure S37. $^1\text{H-NMR}$ of Compound 4m.Figure S38. $^{13}\text{C-NMR}$ of Compound 4m.

Figure S39. HRMS of Compound 4m.

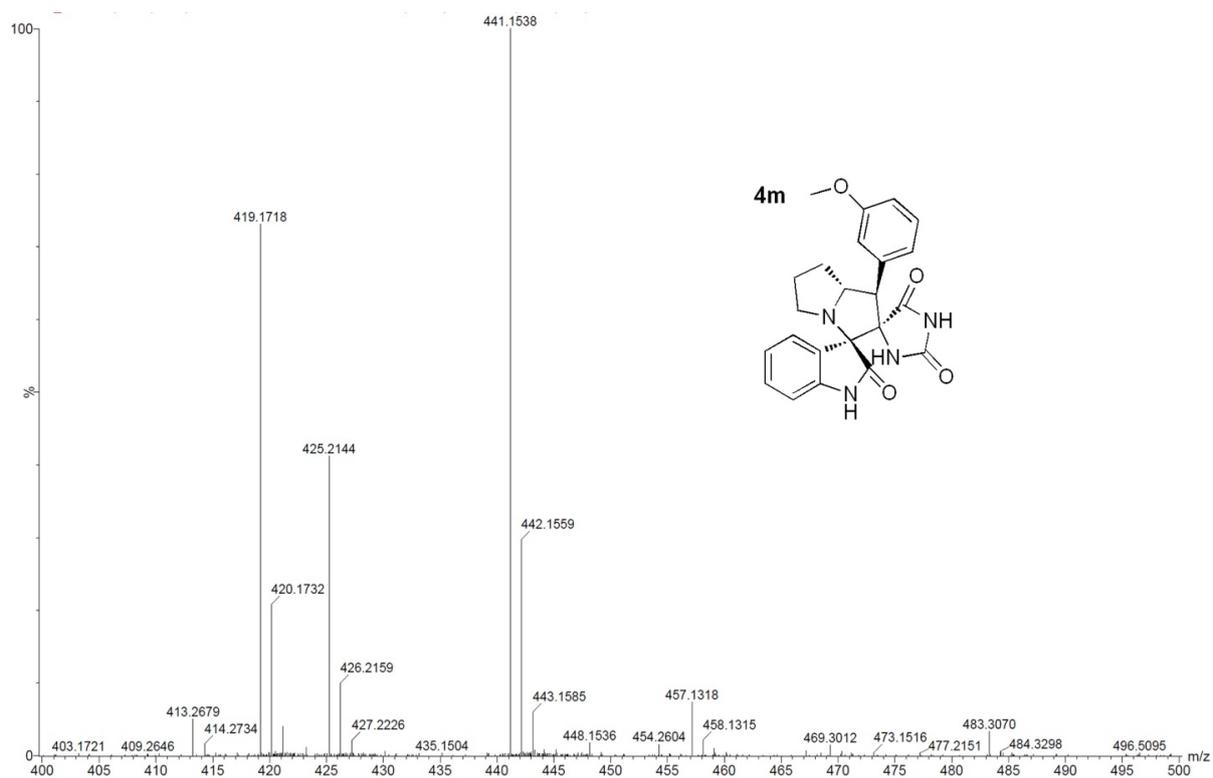
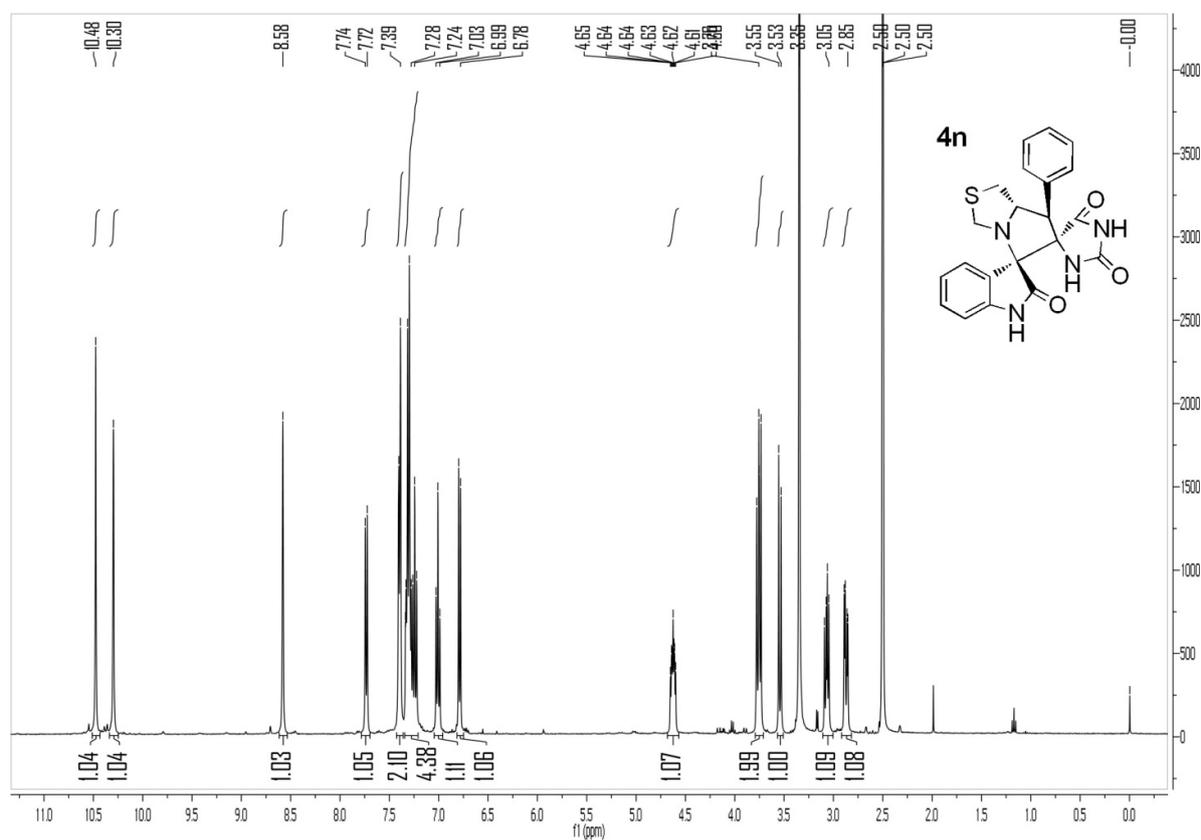
Figure S40. ¹H-NMR of Compound 4n.

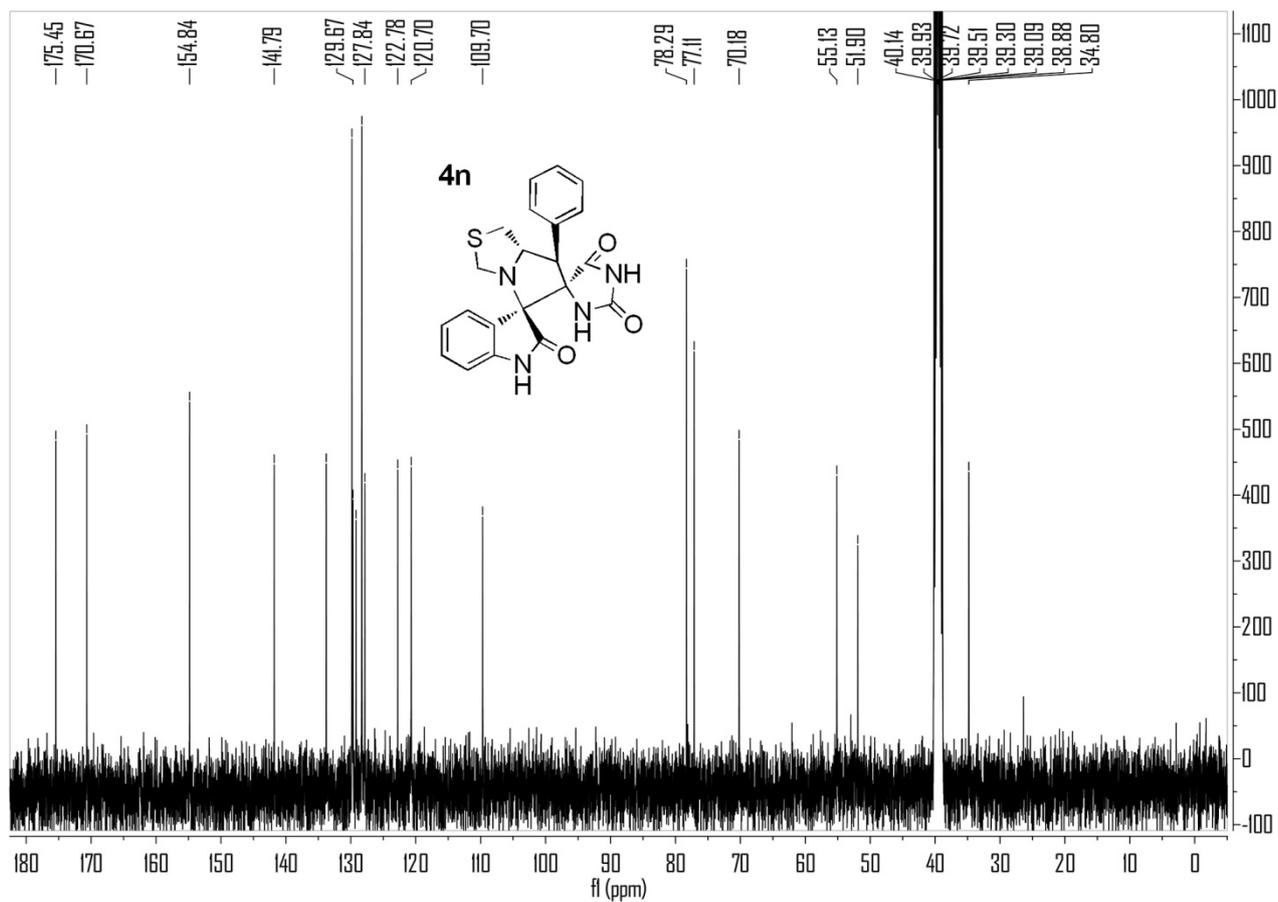
Figure S41. ^{13}C -NMR of Compound 4n.

Figure S42. HRMS of Compound 4n.

