

Supporting Information

General Procedures

^1H -NMR and ^{13}C -NMR spectra were recorded on a Varian NMR spectrometers operating at 300 MHz or 500 MHz for ^1H , and 75 MHz or 125 MHz for ^{13}C . All chemical shifts were measured in CDCl_3 and DMSO-d_6 as solvents. High resolution mass spectroscopic data were acquired on an Agilent 6220 ESI-TOF with electro spray ionization (ESI) mode.

Figure S1. ^1H -NMR of compound **12a**.

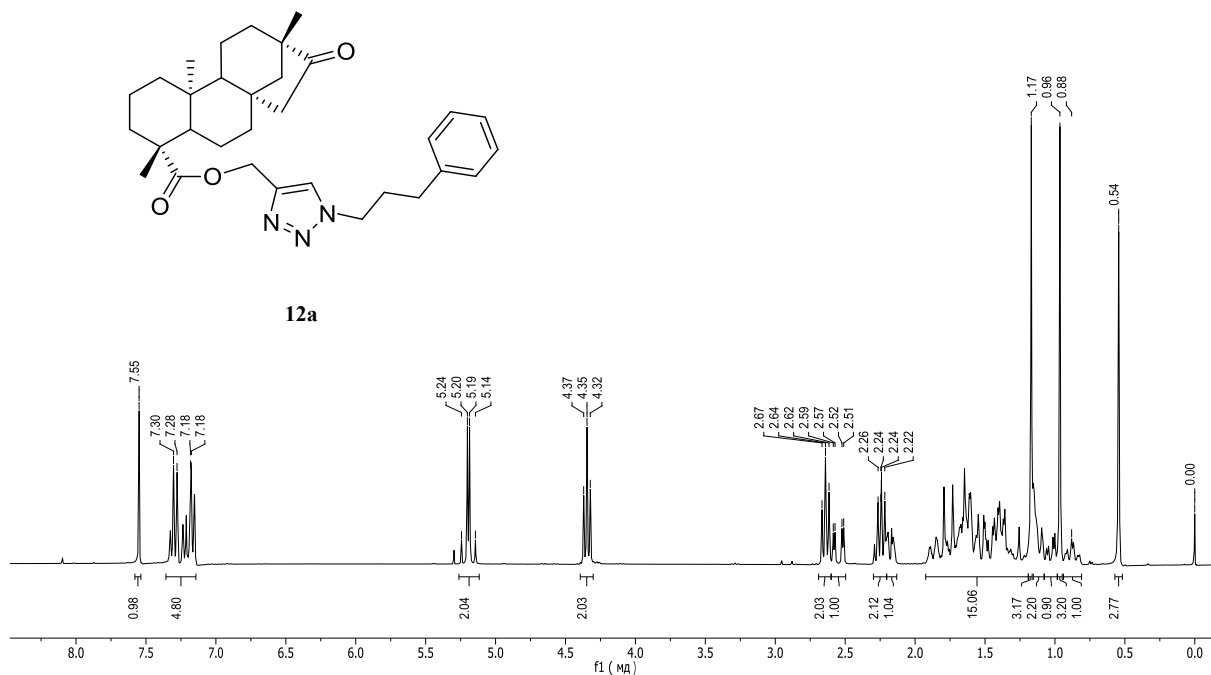
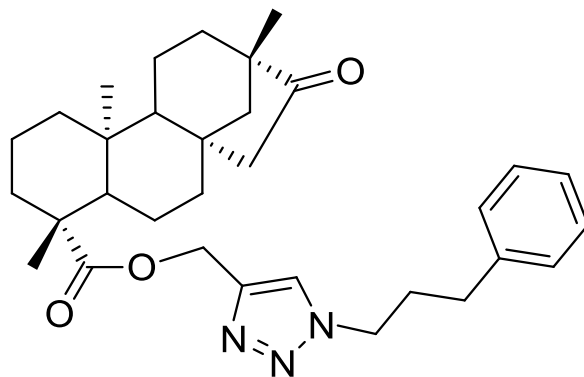


Figure S2. ^{13}C -NMR of compound 12a.

12a

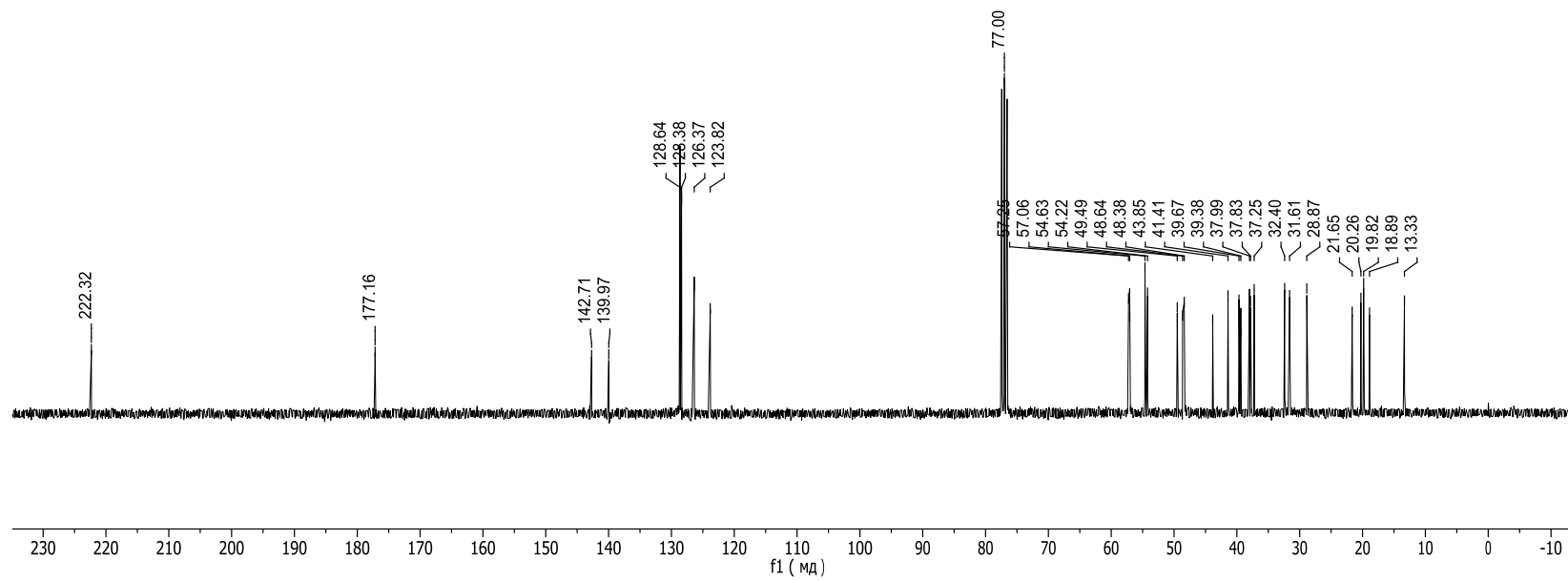


Figure S3. HRMS of compound 12a.

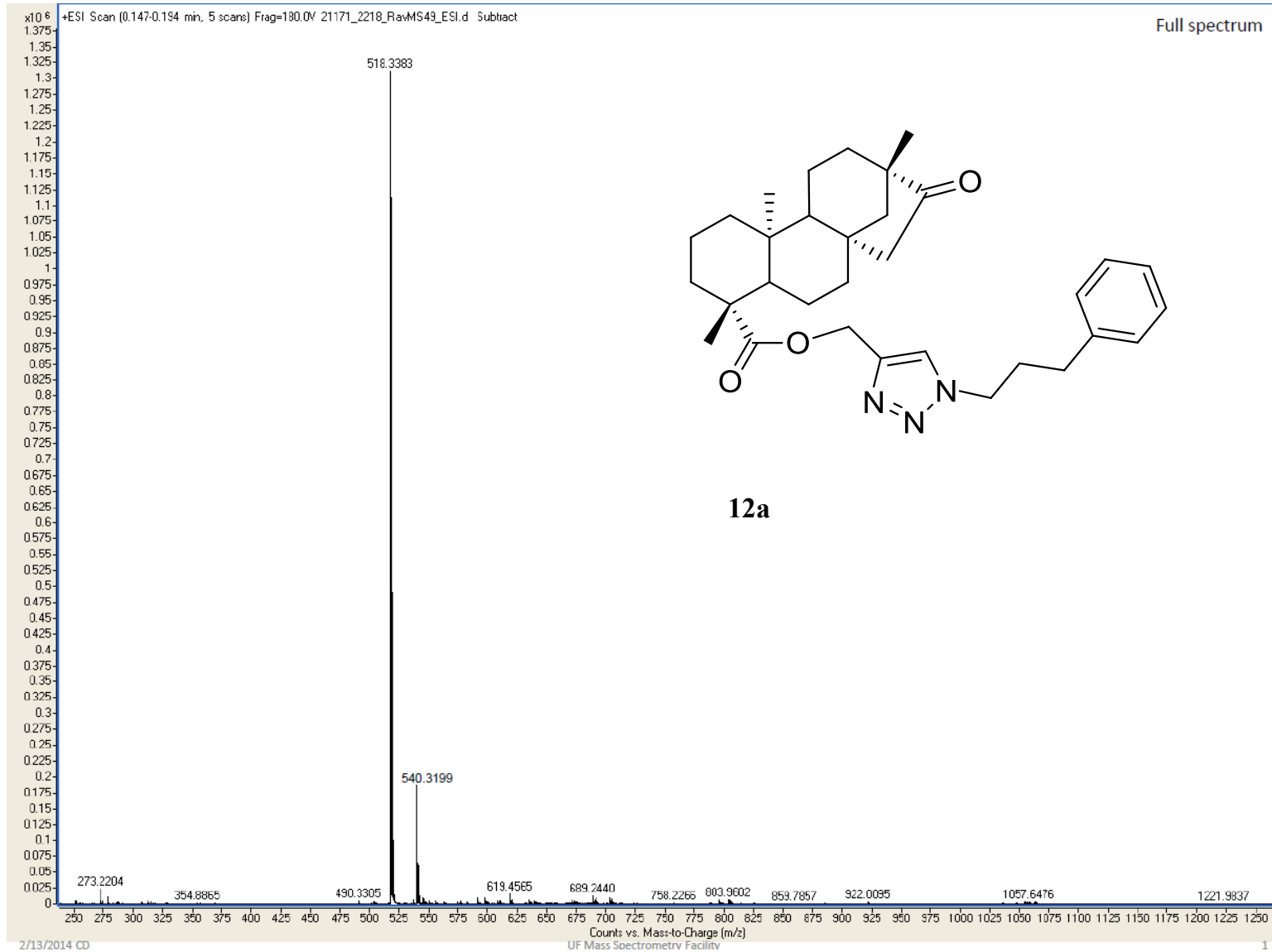


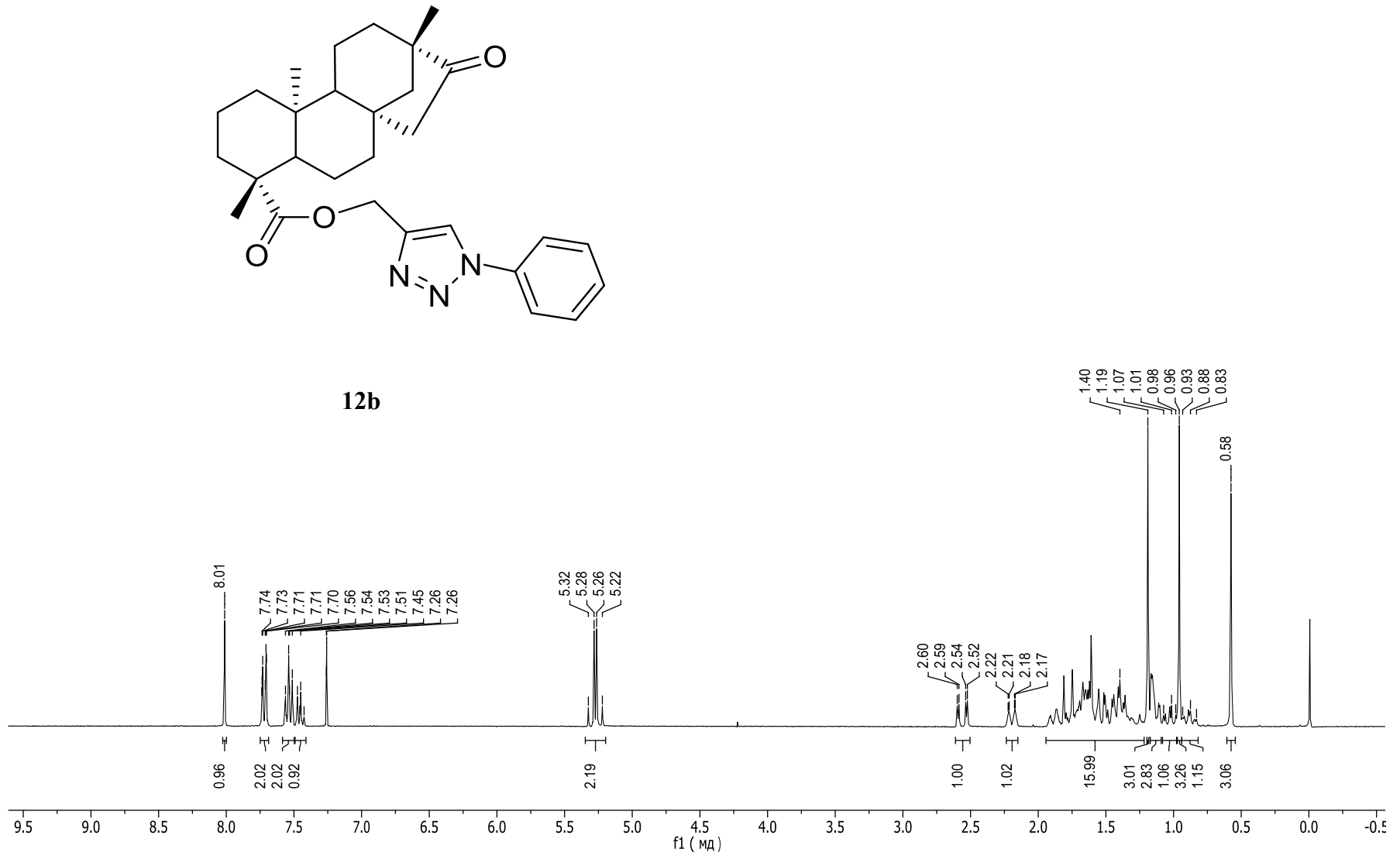
Figure S4. ¹H-NMR of compound 12b.

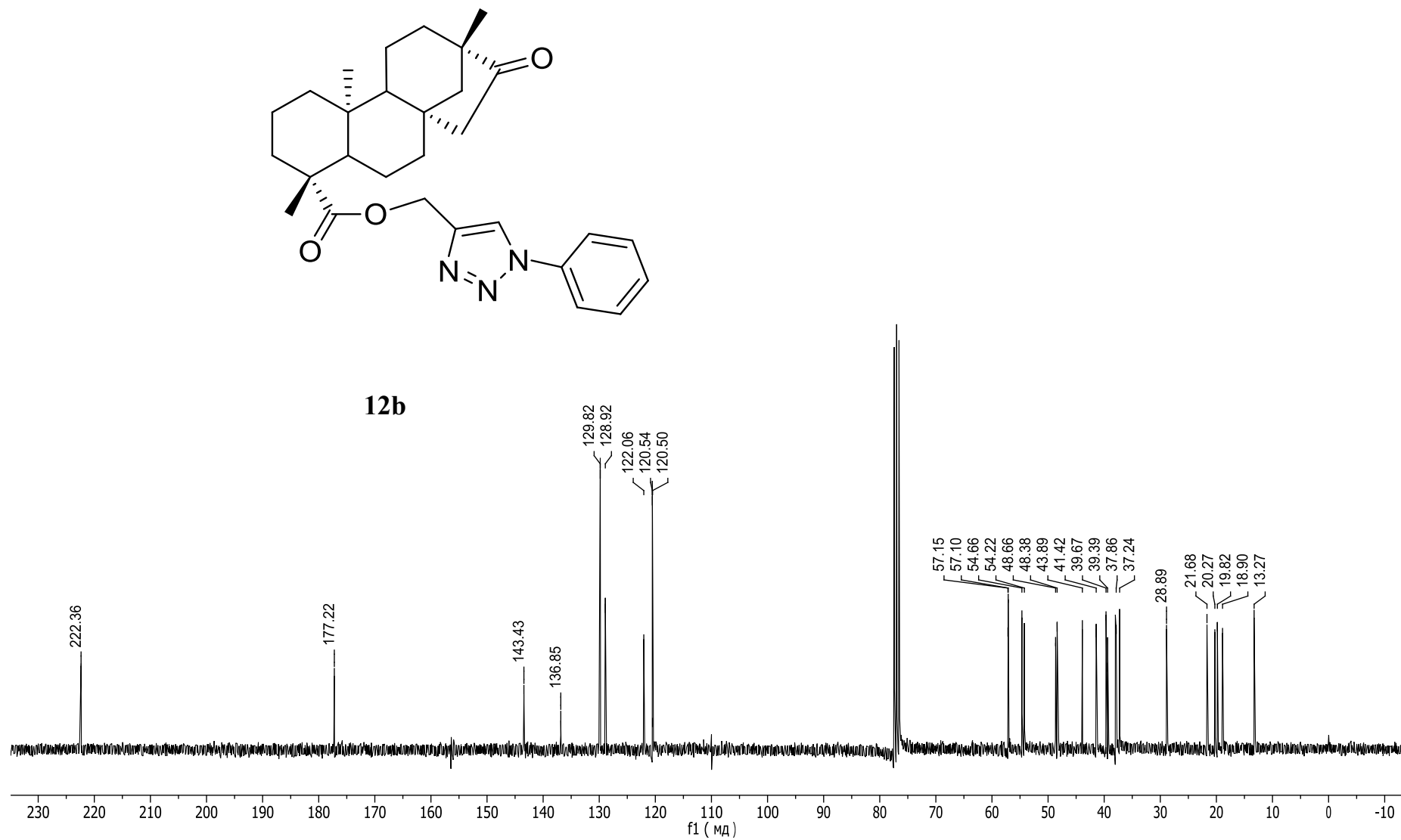
Figure S5. ^{13}C -NMR of compound 12b.

Figure S6. HRMS of compound 12b.

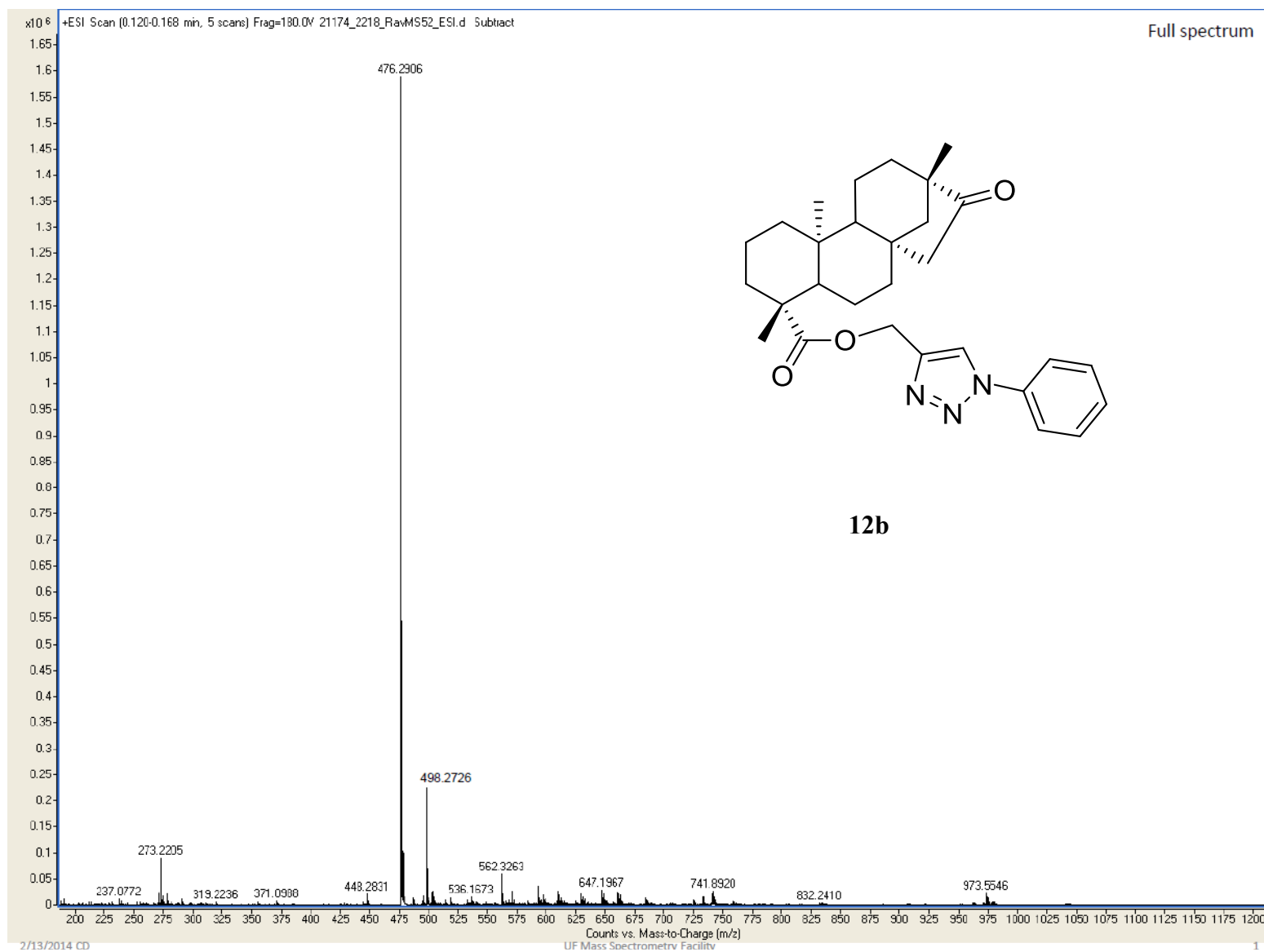


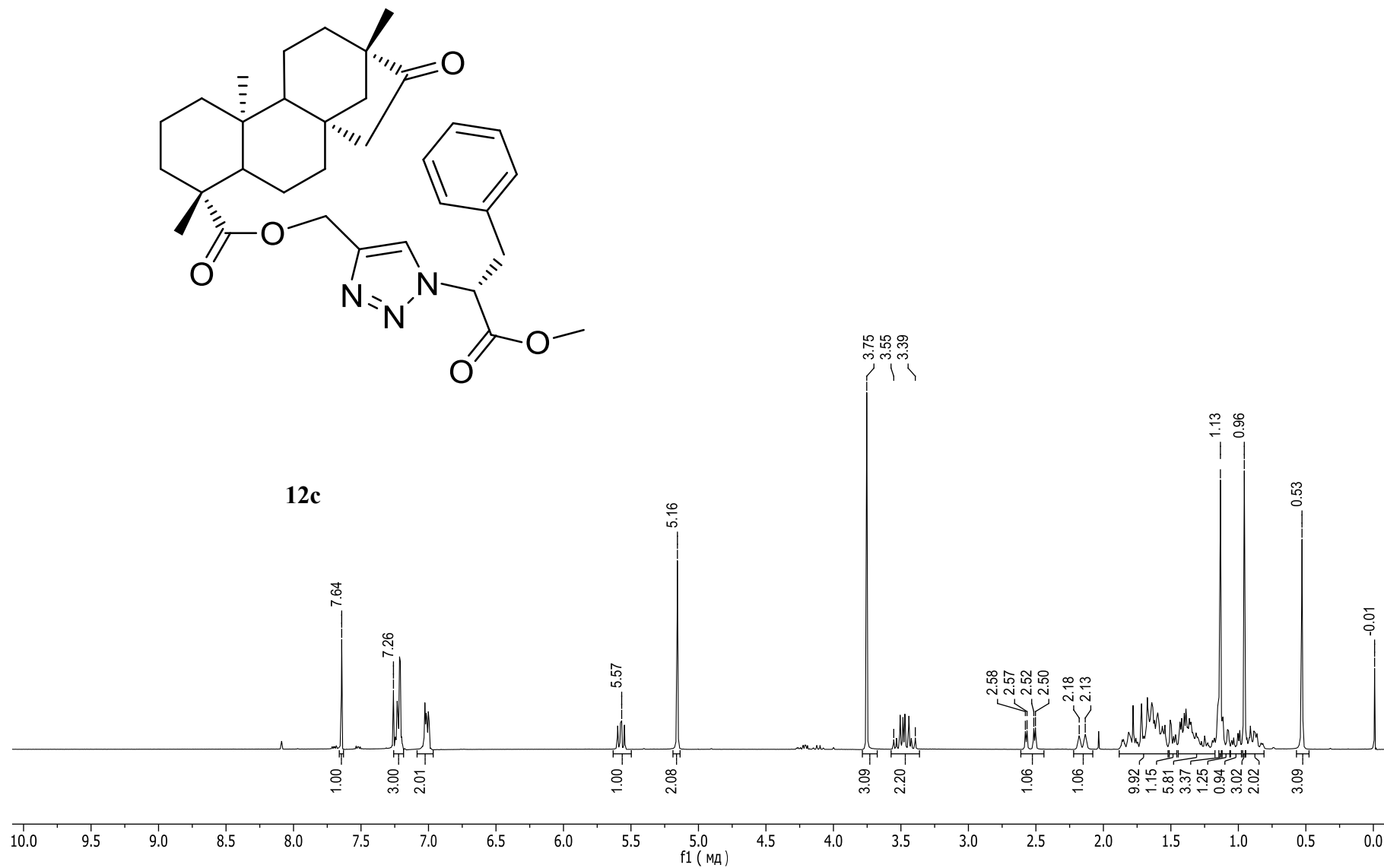
Figure S7. $^1\text{H-NMR}$ of compound **12c**.

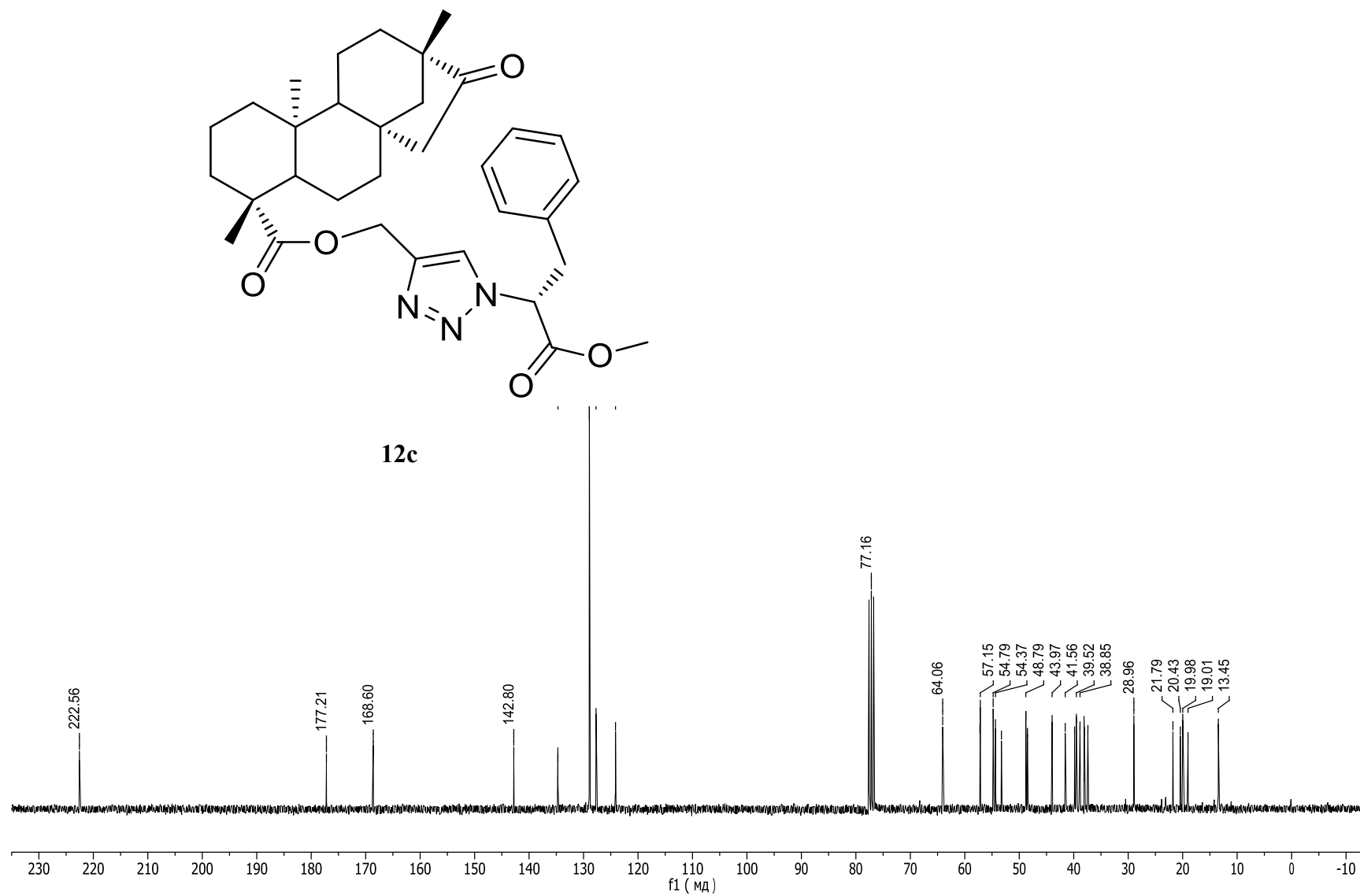
Figure S8. ^{13}C -NMR of compound 12c.

Figure S9. HRMS of compound 12c.

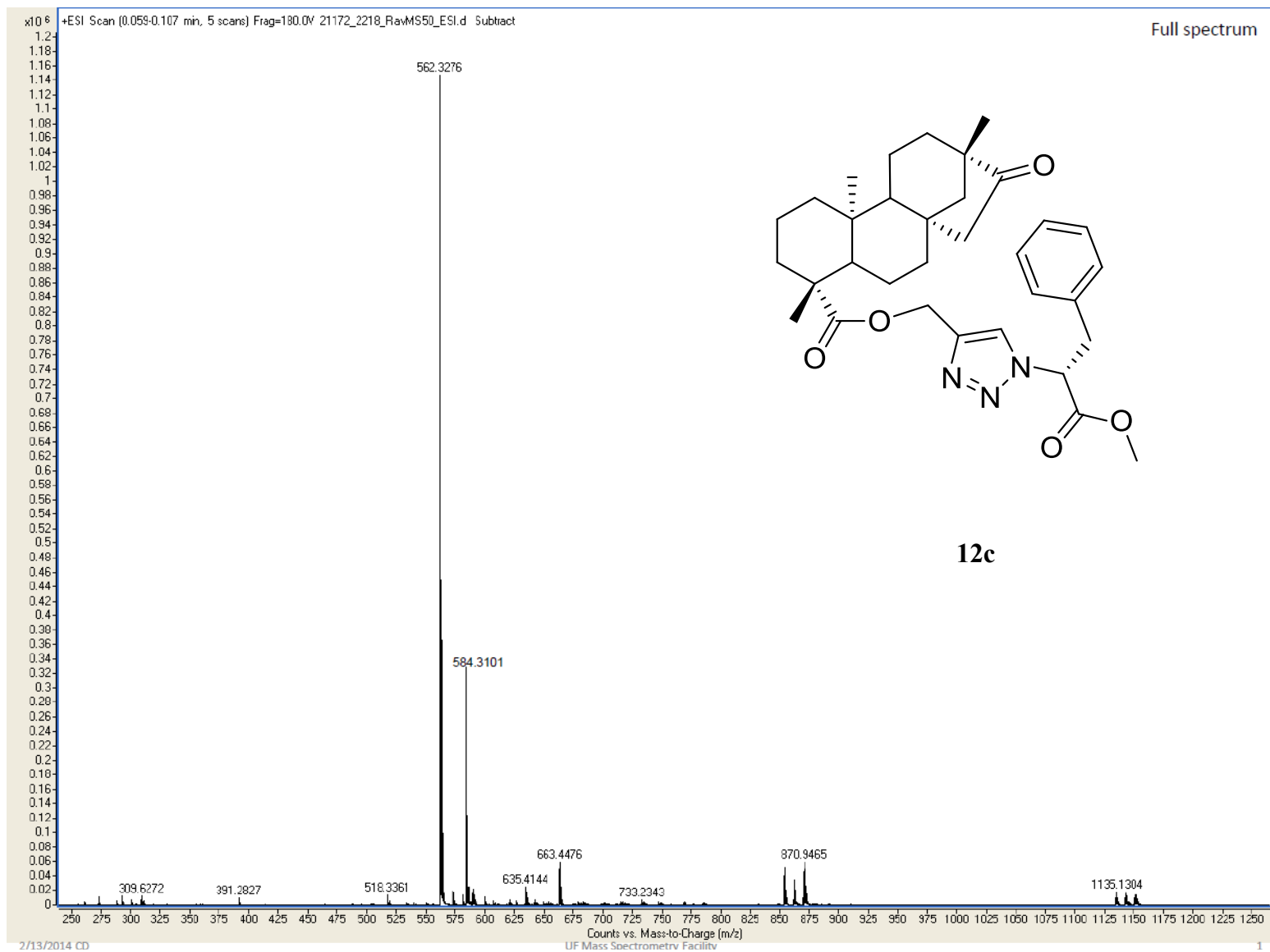


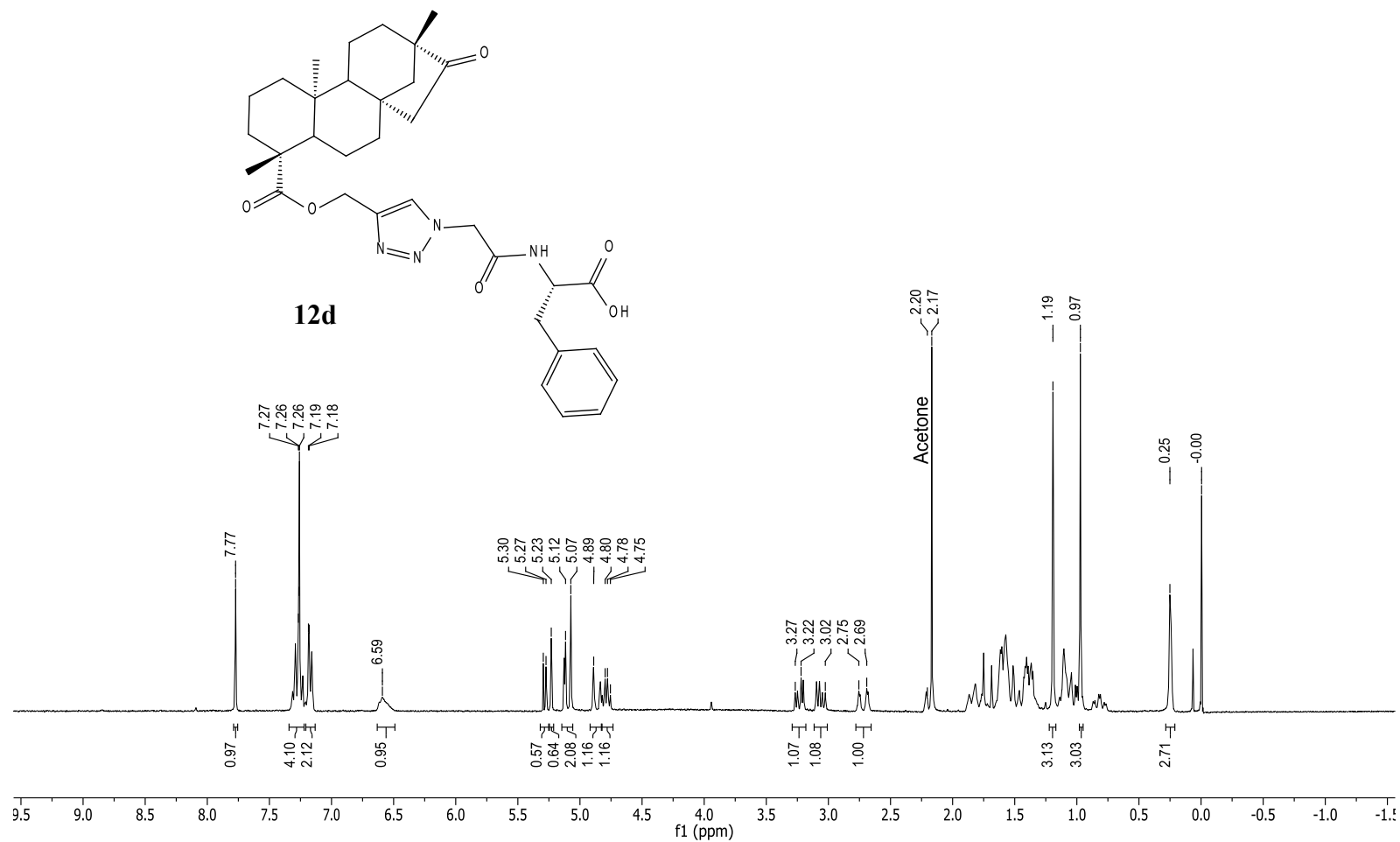
Figure S10. $^1\text{H-NMR}$ of compound **12d**.

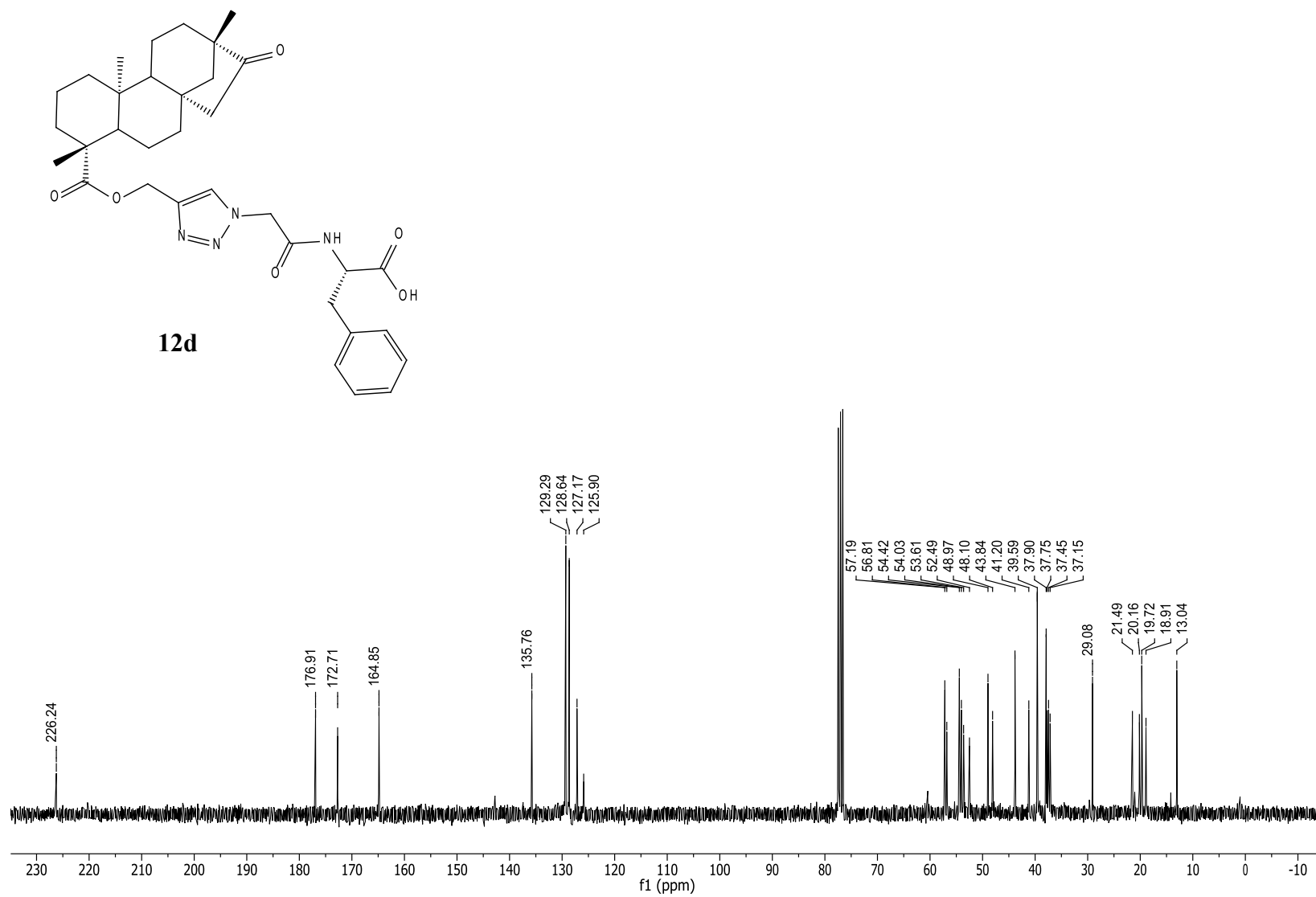
Figure S11. ^{13}C -NMR of compound **12d**.

Figure S12. HRMS of compound 12d.

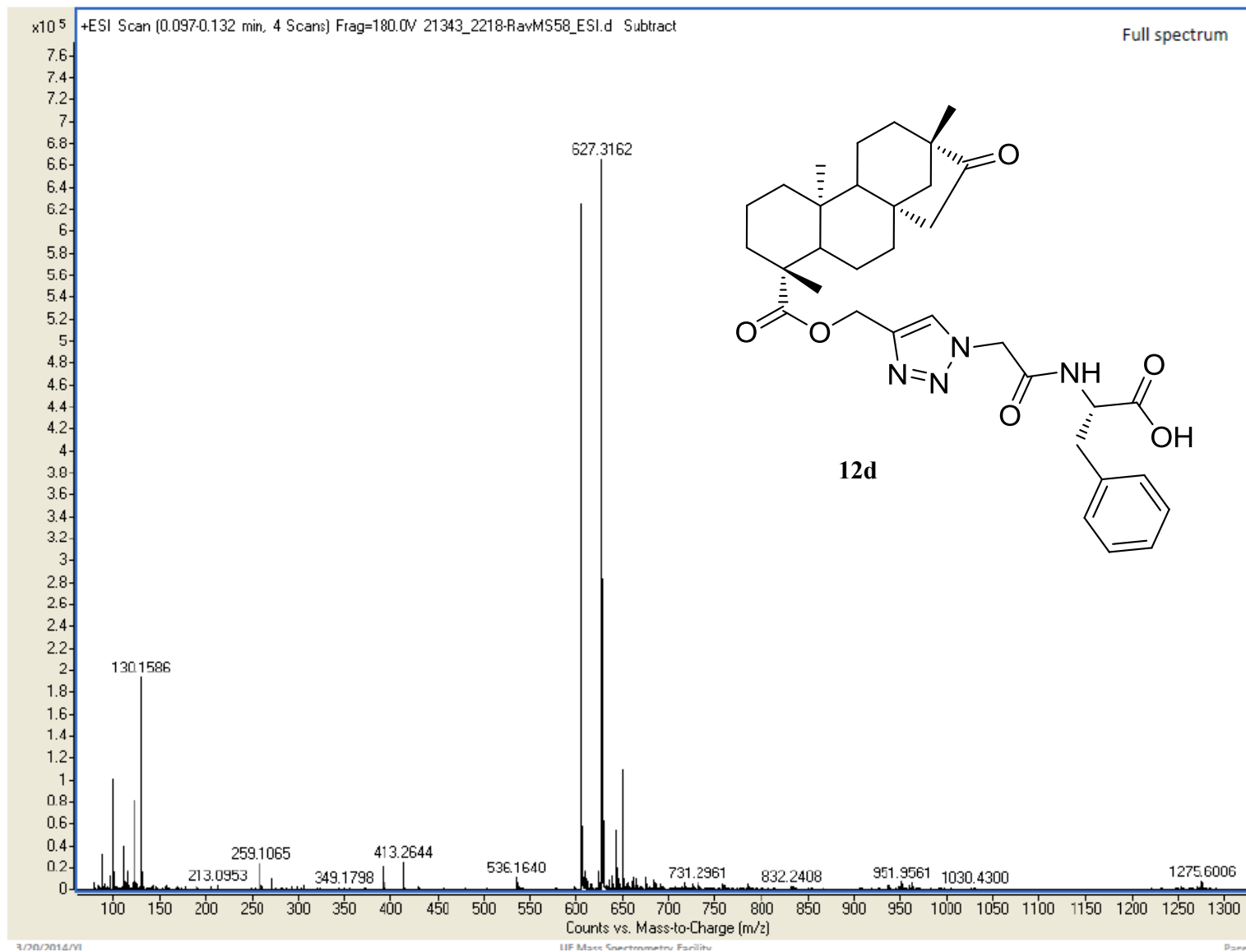


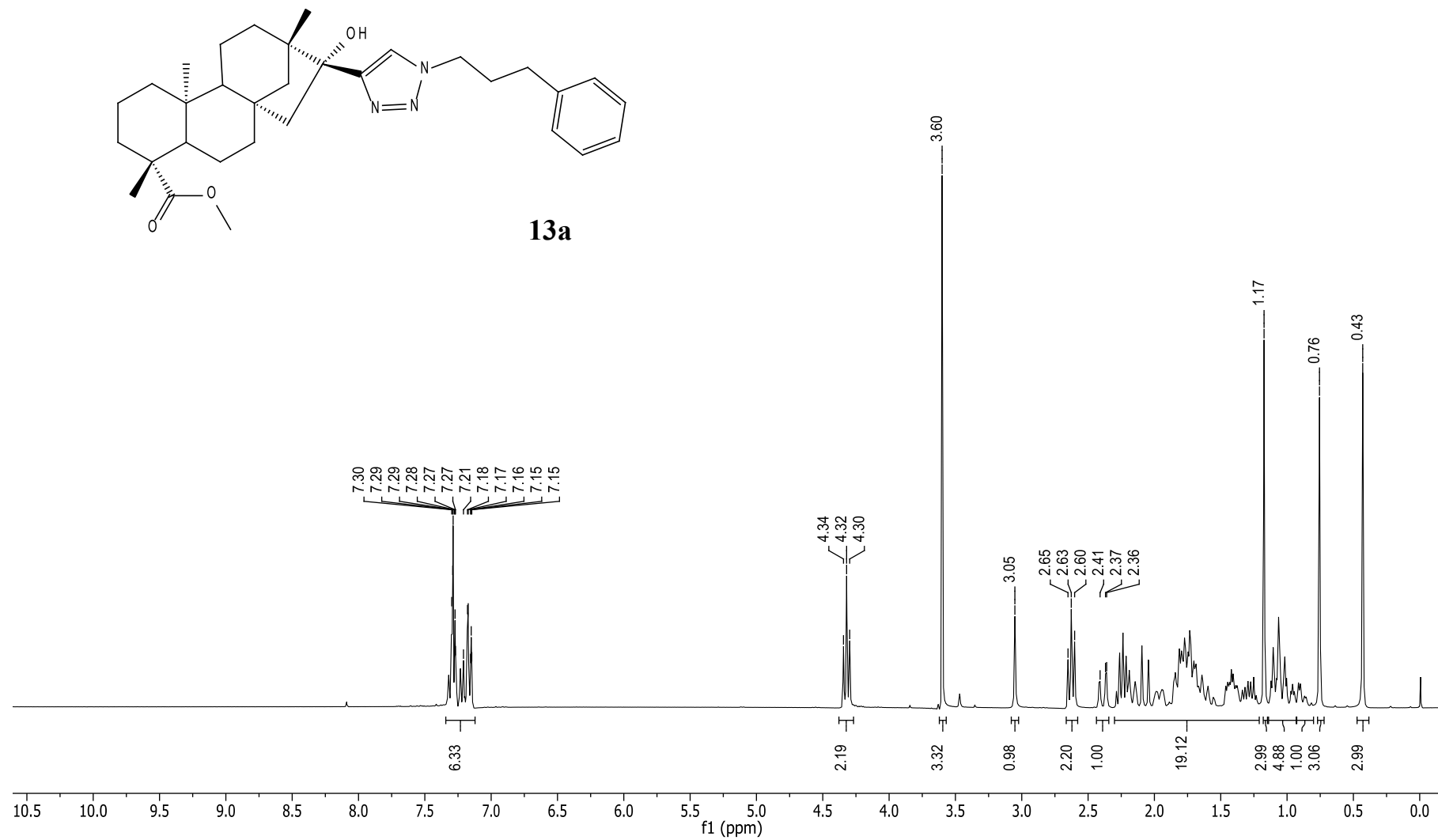
Figure S13. $^1\text{H-NMR}$ of compound **13a**.

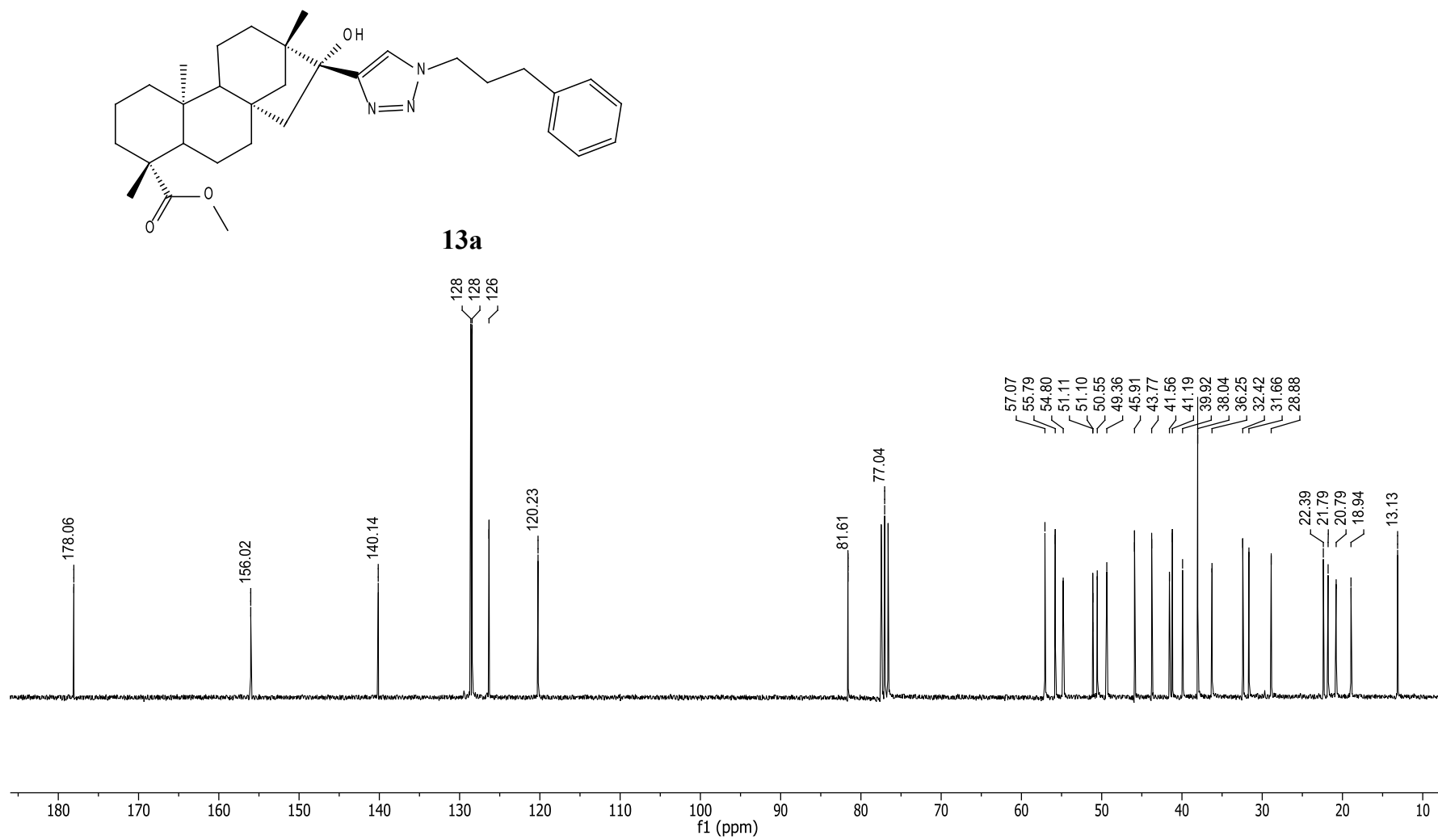
Figure S14. ^{13}C -NMR of compound **13a**.

Figure S15. HRMS of compound 13a.

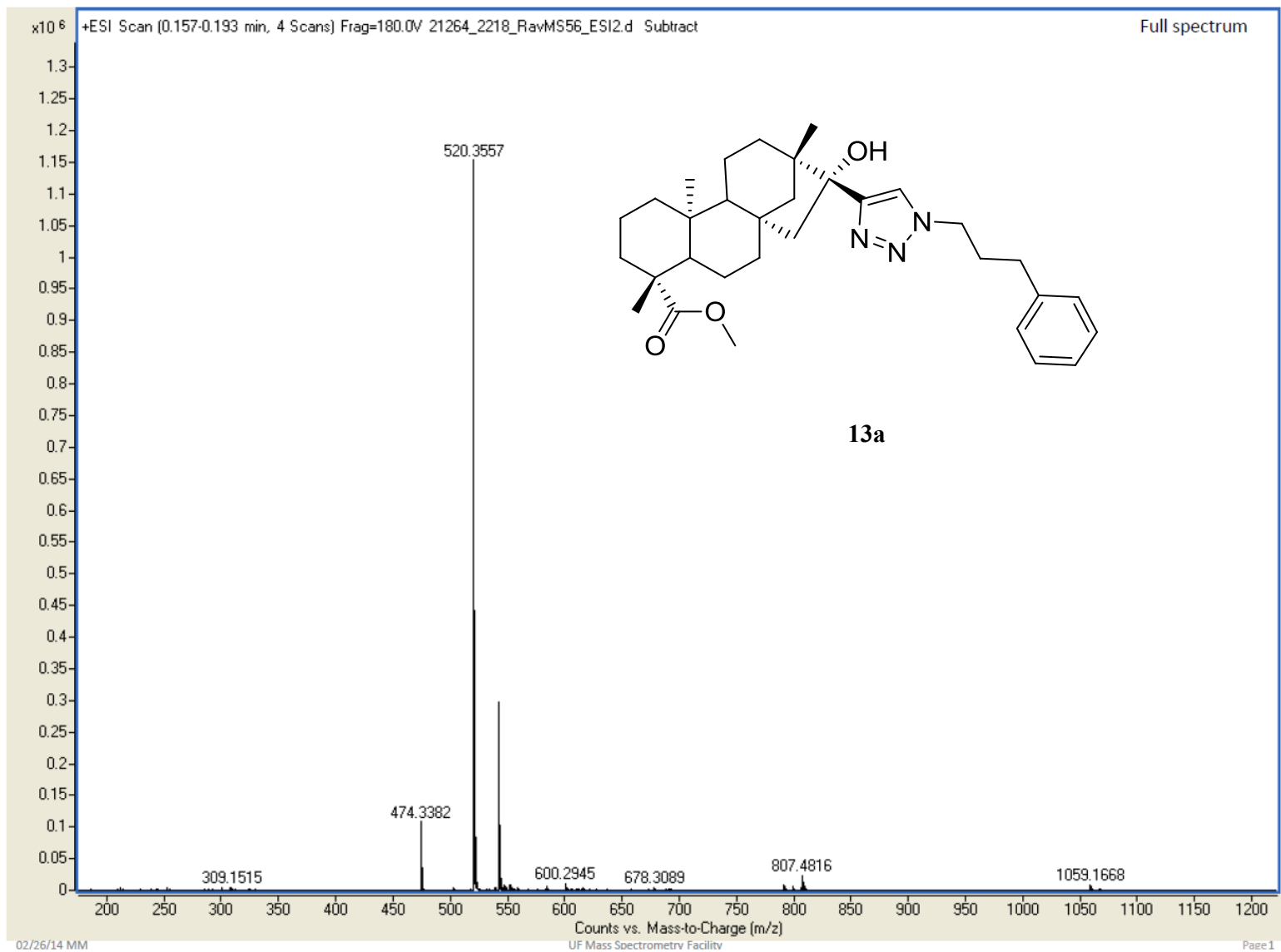


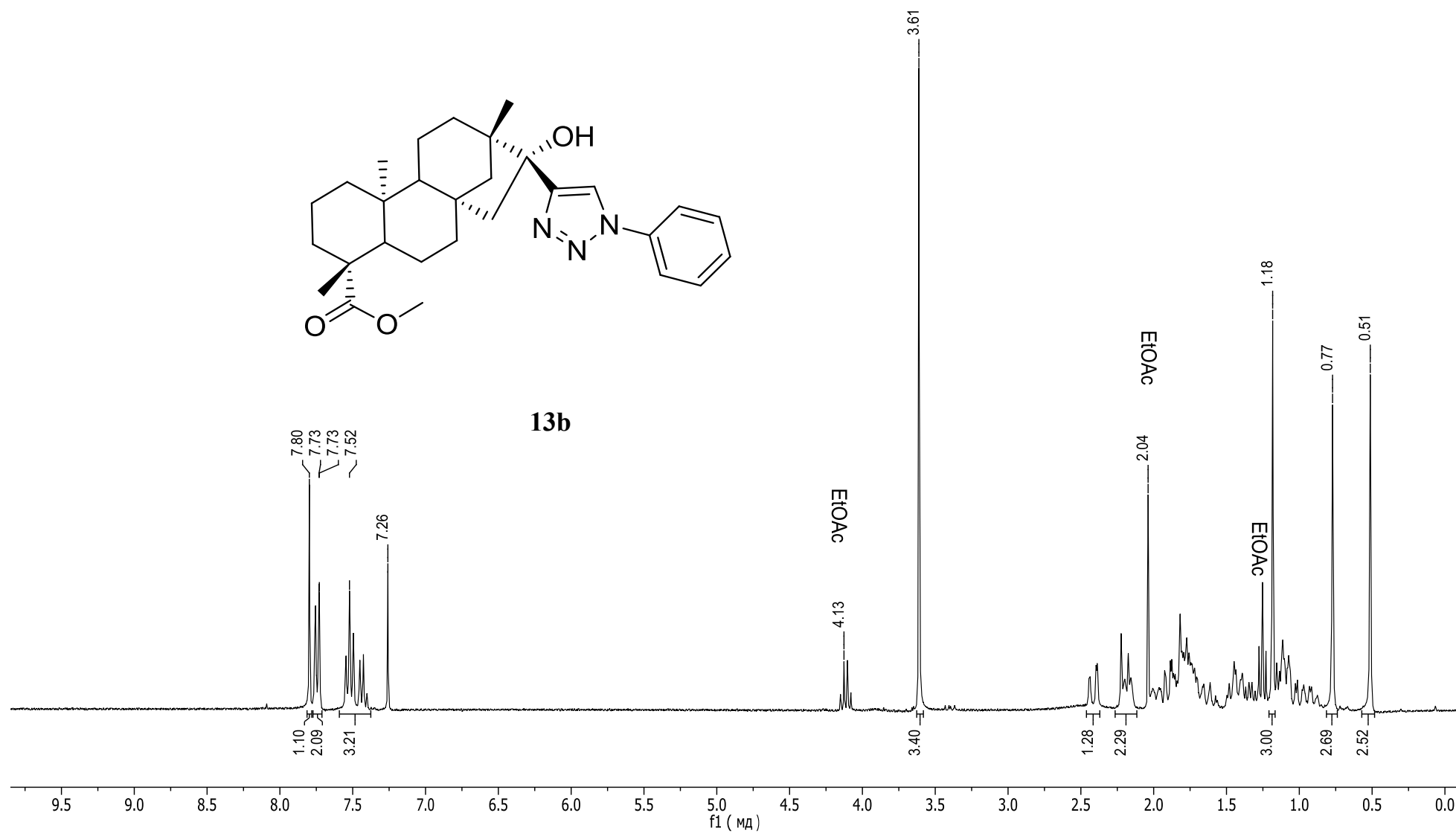
Figure S16. $^1\text{H-NMR}$ of compound **13b**.

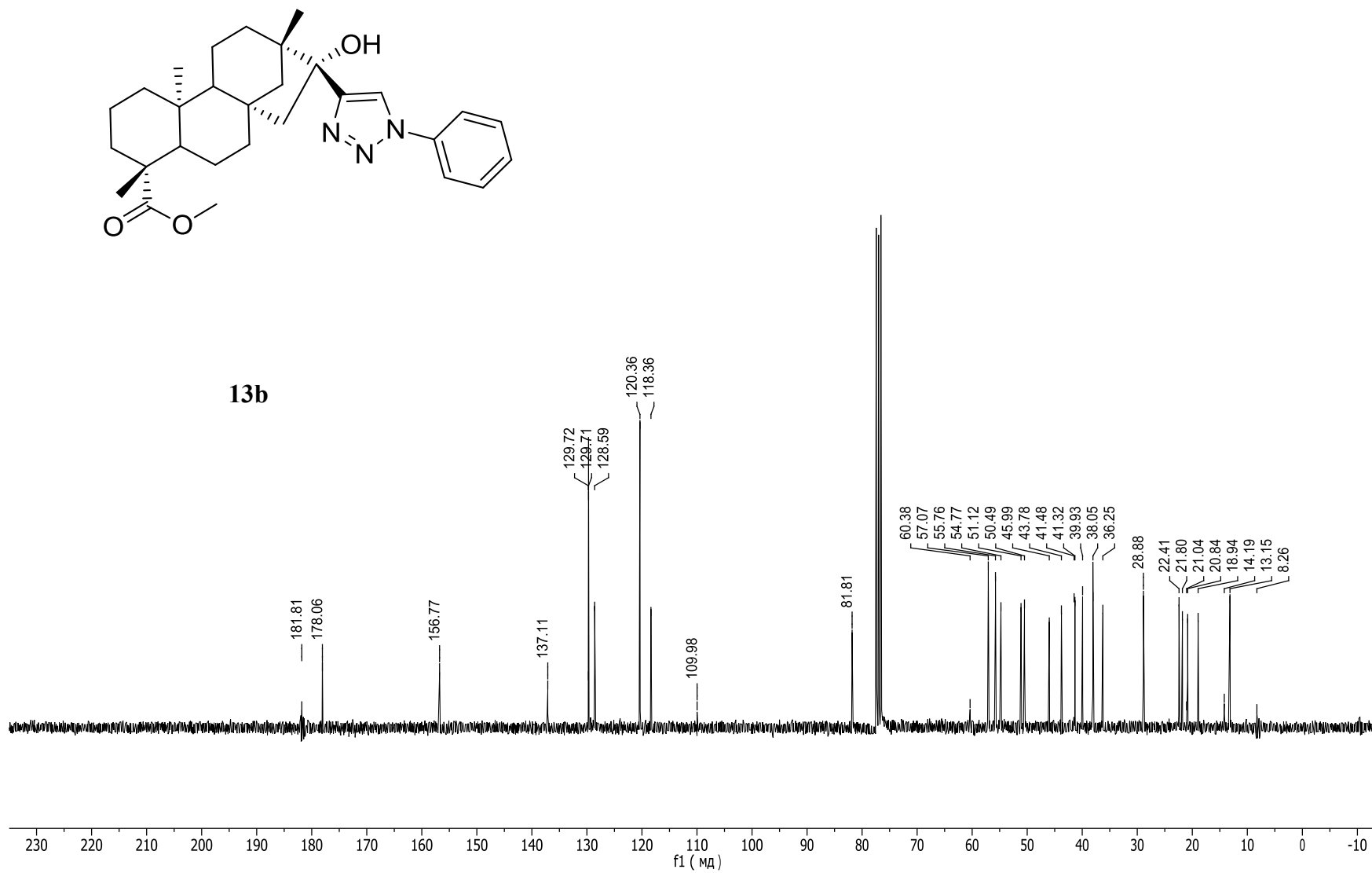
Figure S17. ^{13}C -NMR of compound 13b.

Figure S18. HRMS of compound 13b.

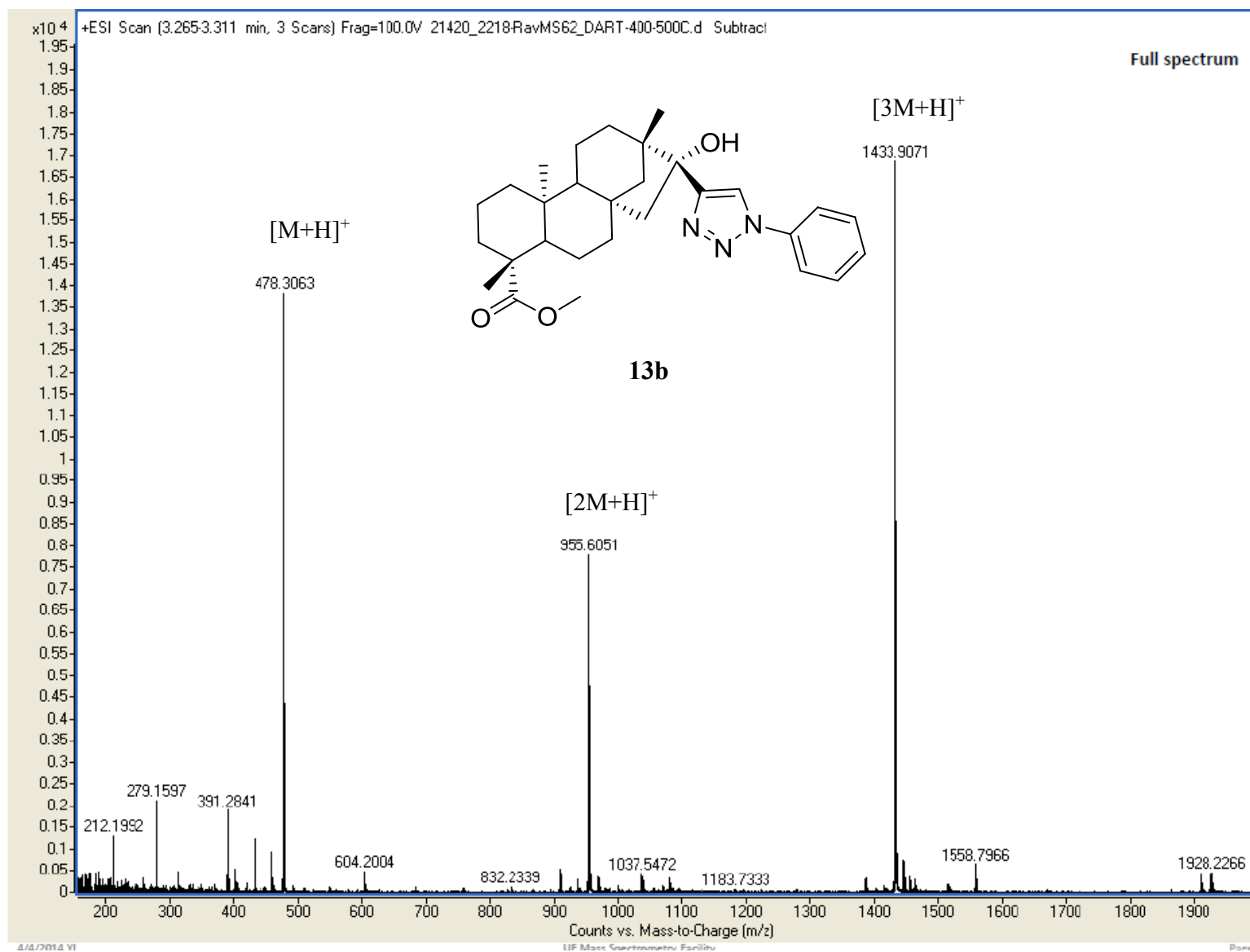


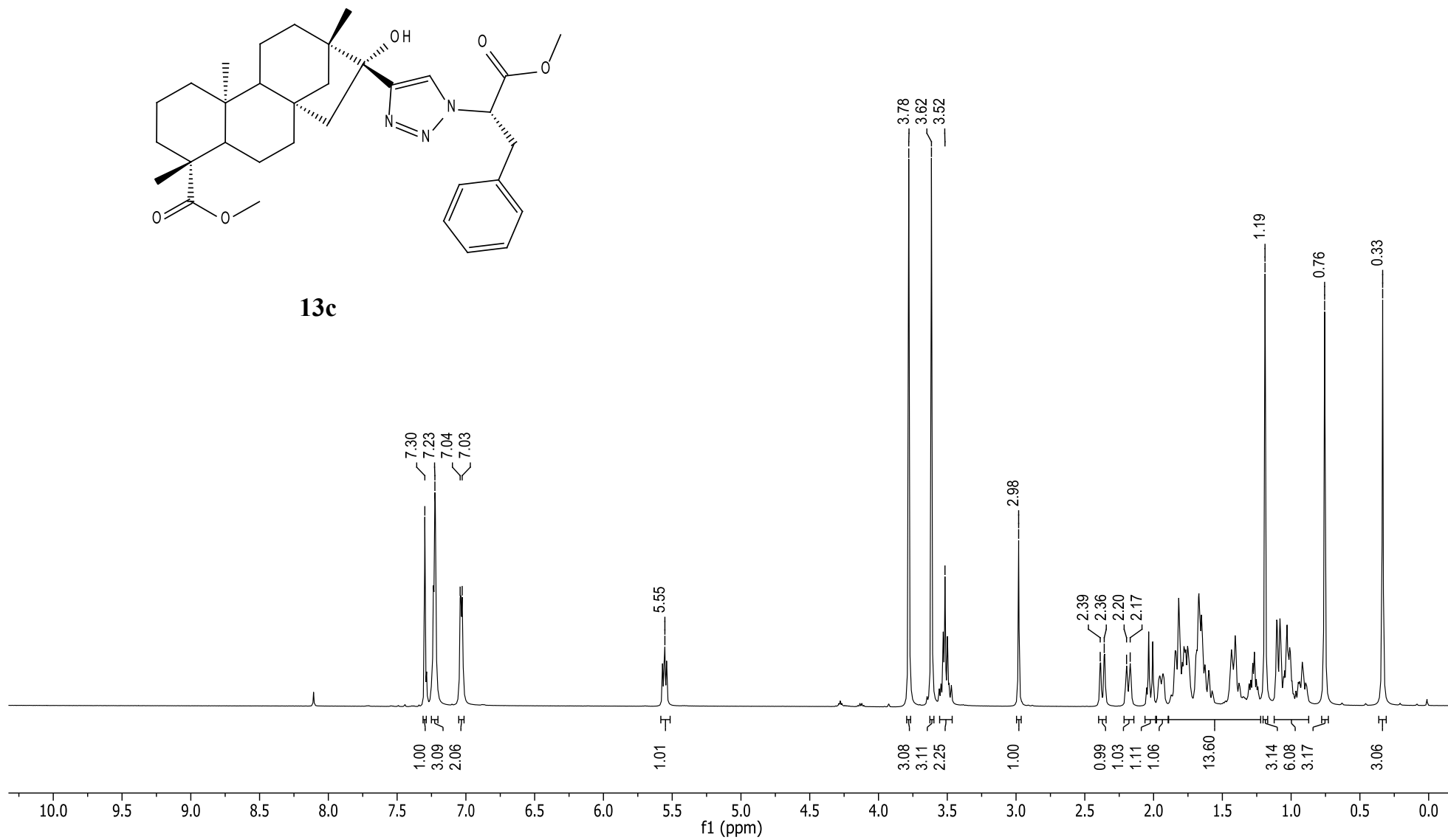
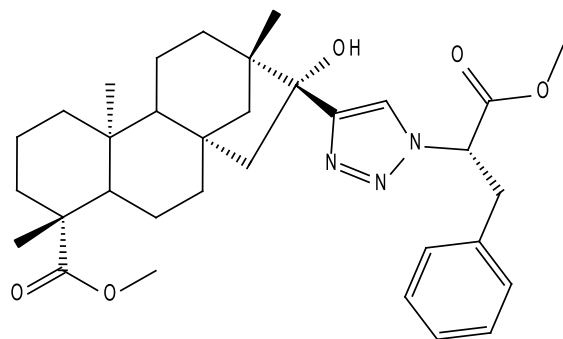
Figure S19. $^1\text{H-NMR}$ of compound **13c**.

Figure S20. ^{13}C -NMR of compound 13c.

13c

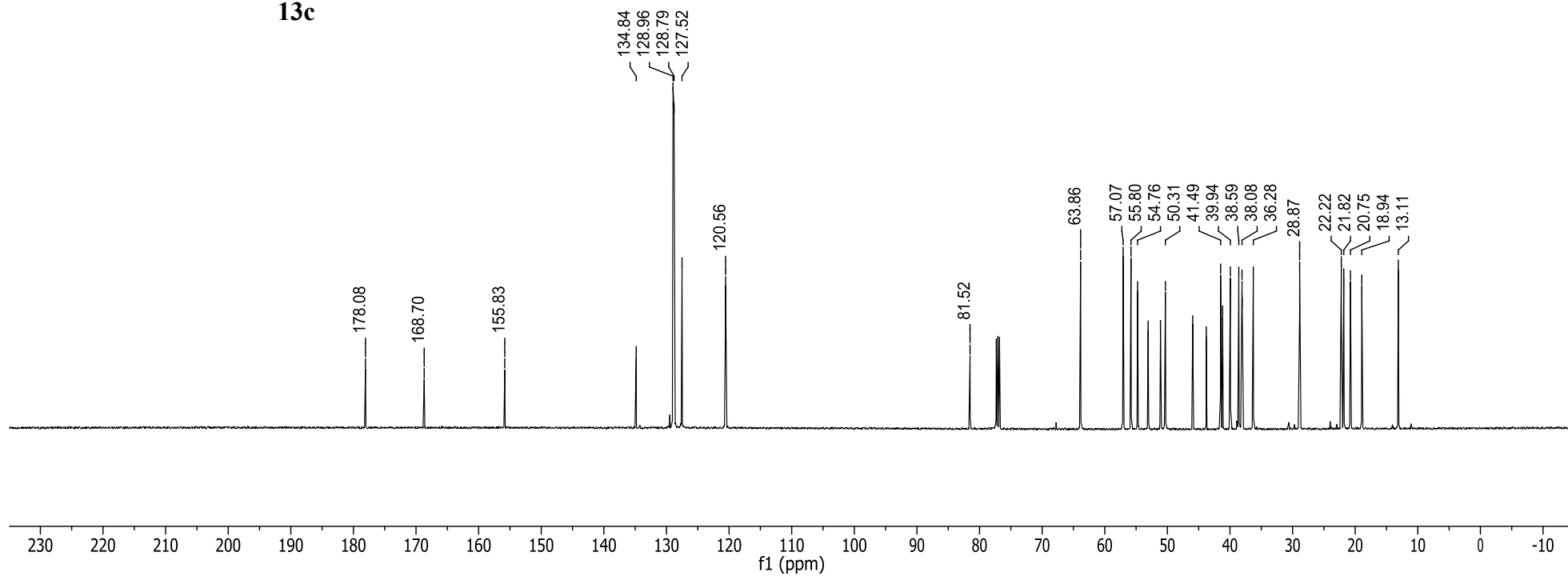


Figure S21. HRMS of compound 13c.

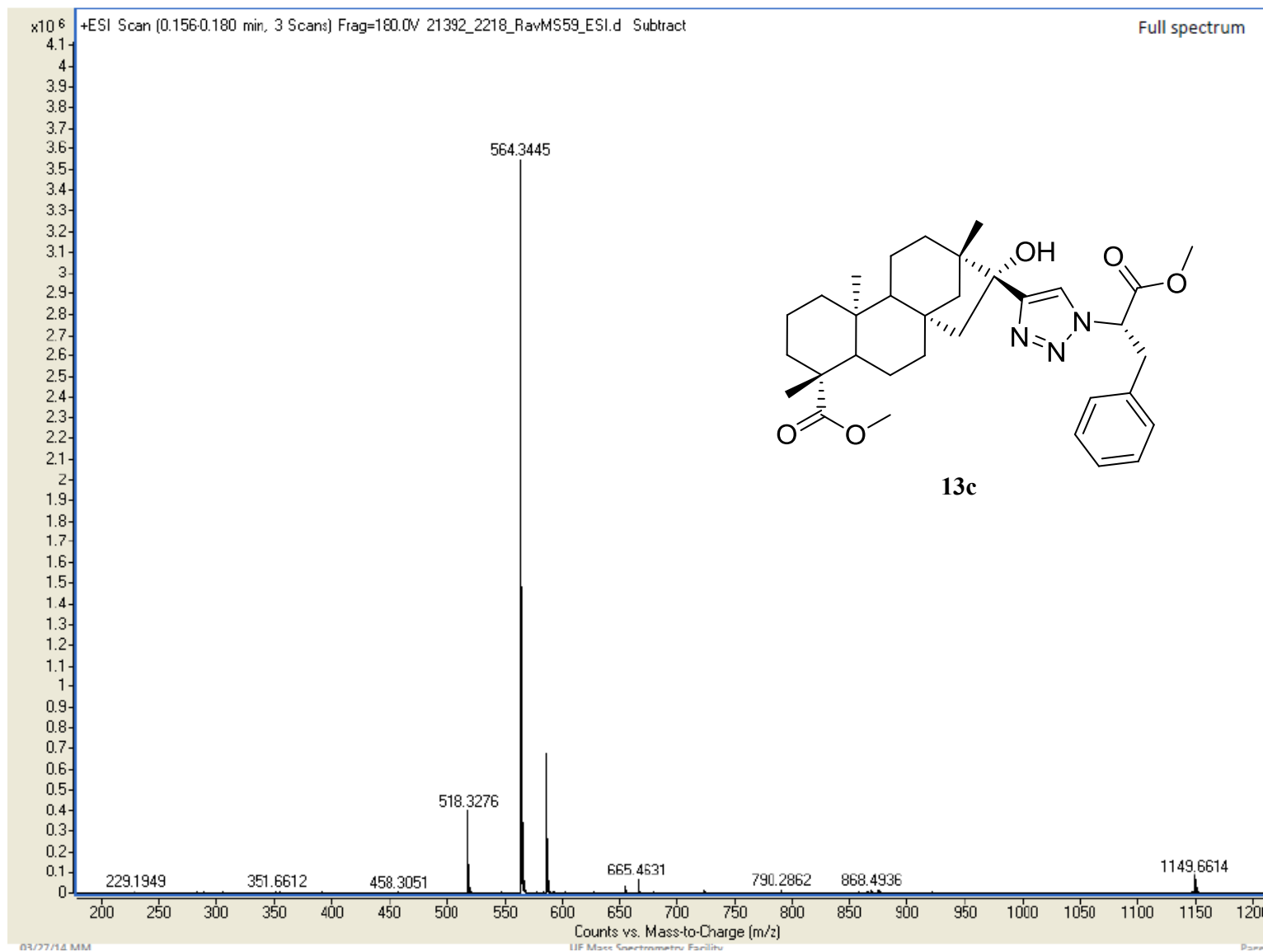


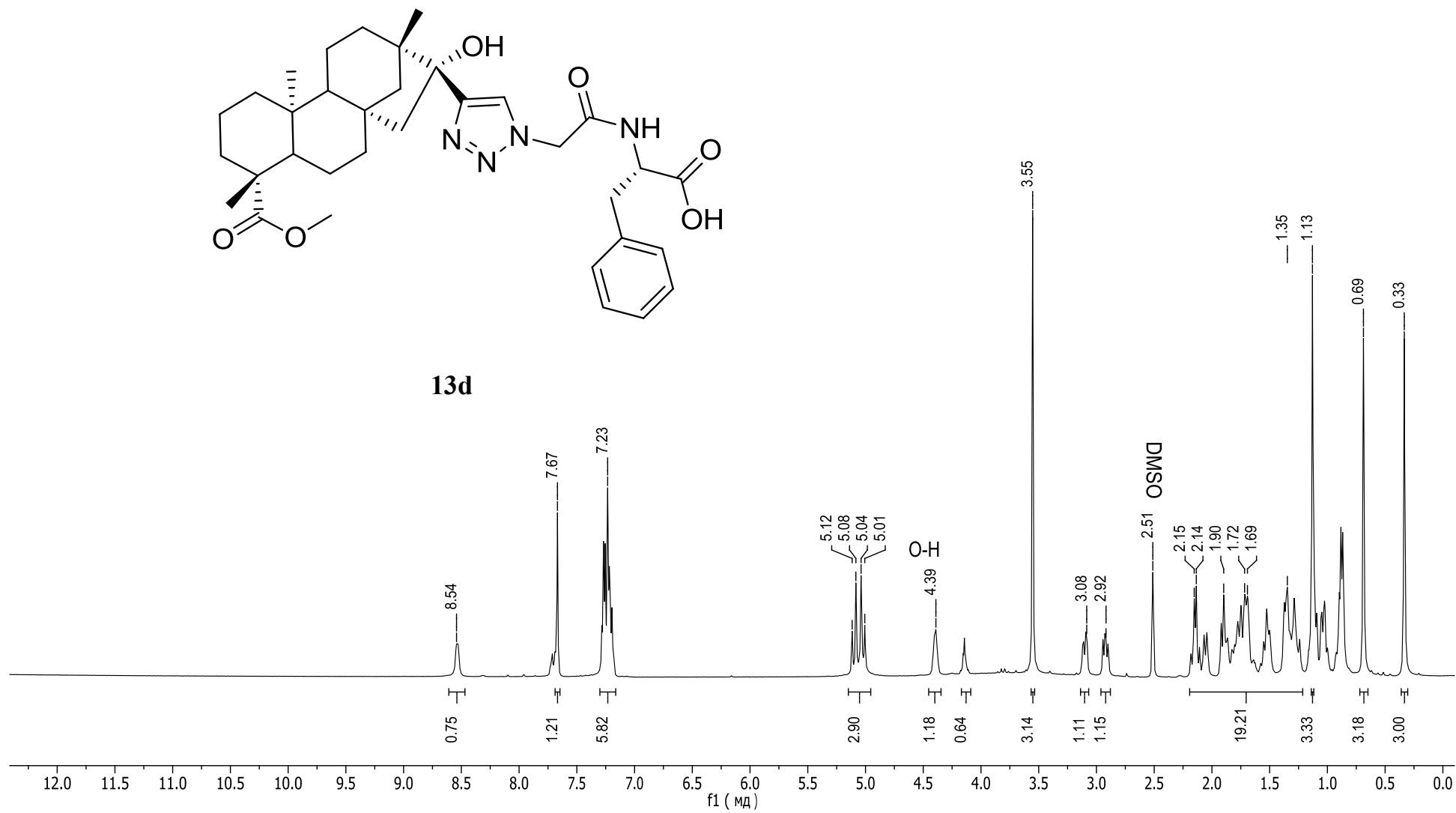
Figure S22. $^1\text{H-NMR}$ of compound 13d.

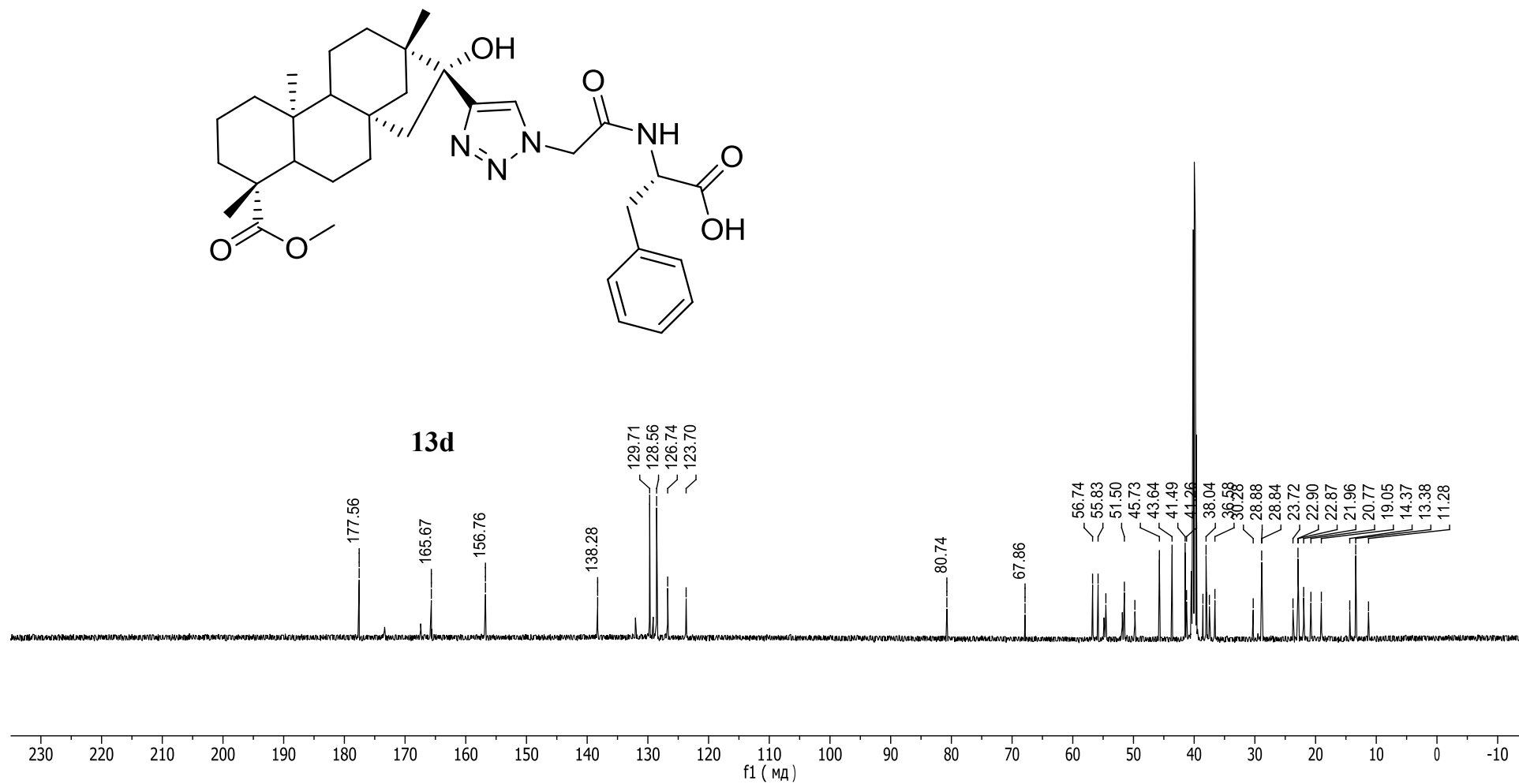
Figure S23. ^{13}C -NMR of compound 13d.

Figure S24. HRMS of compound 13d.

