

Supplementary Materials

Figure S1. IR (ATR, cm^{-1}) of compound 2.

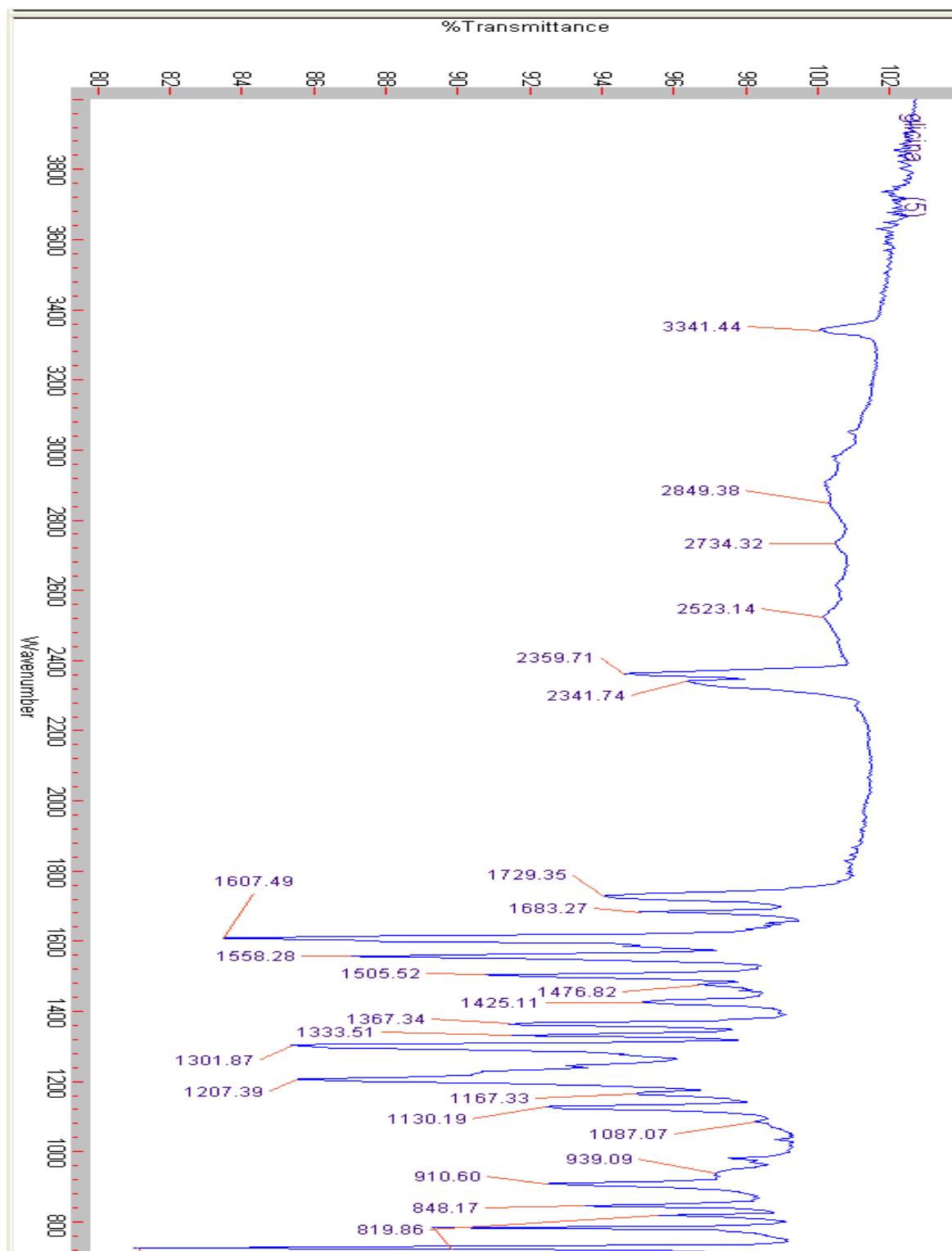


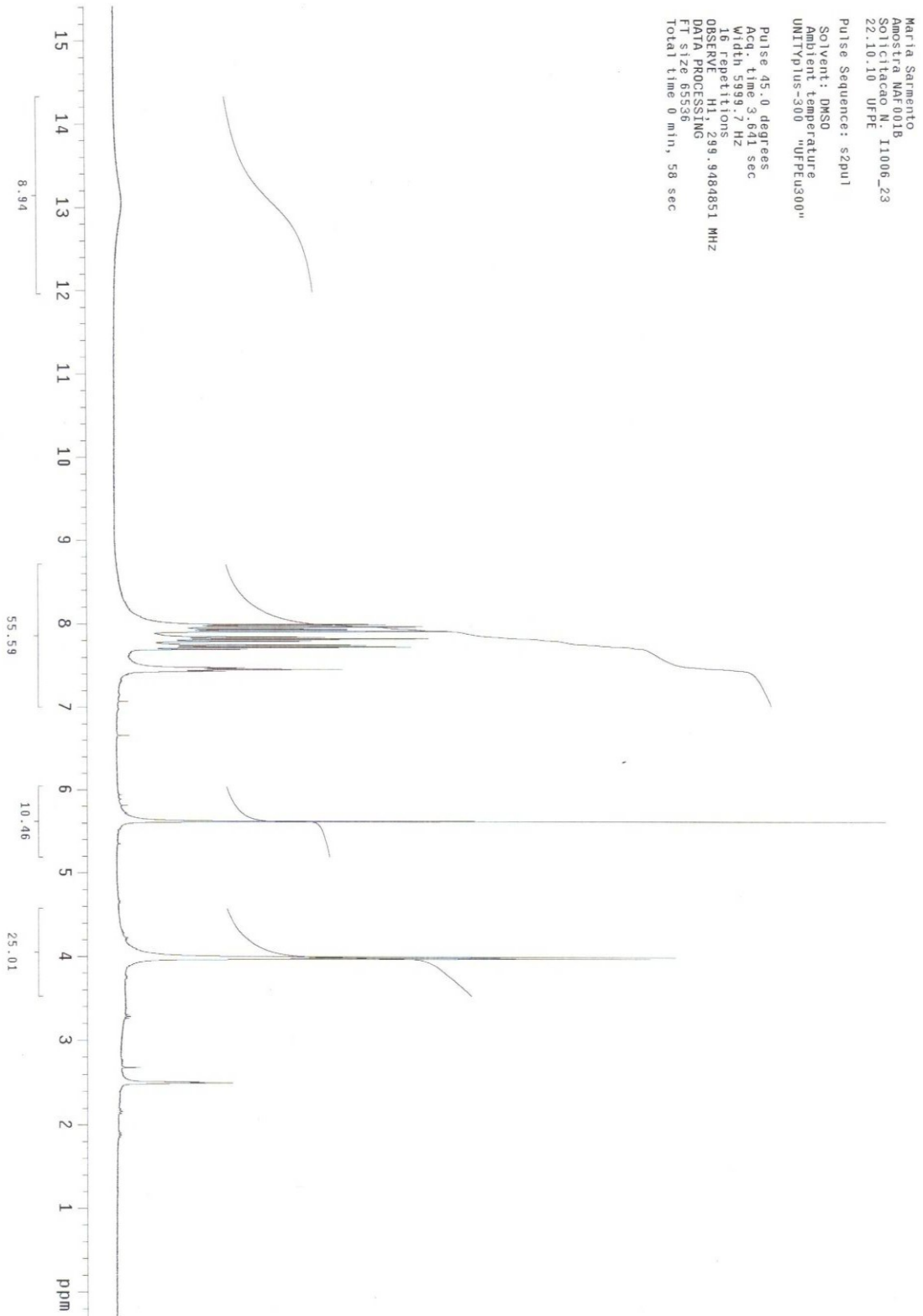
Figure S2. $^1\text{H-NMR}$ (δ , $\text{DMSO-}d_6$, 300 MHz) and expansion of **2**.

Figure S2. Cont.

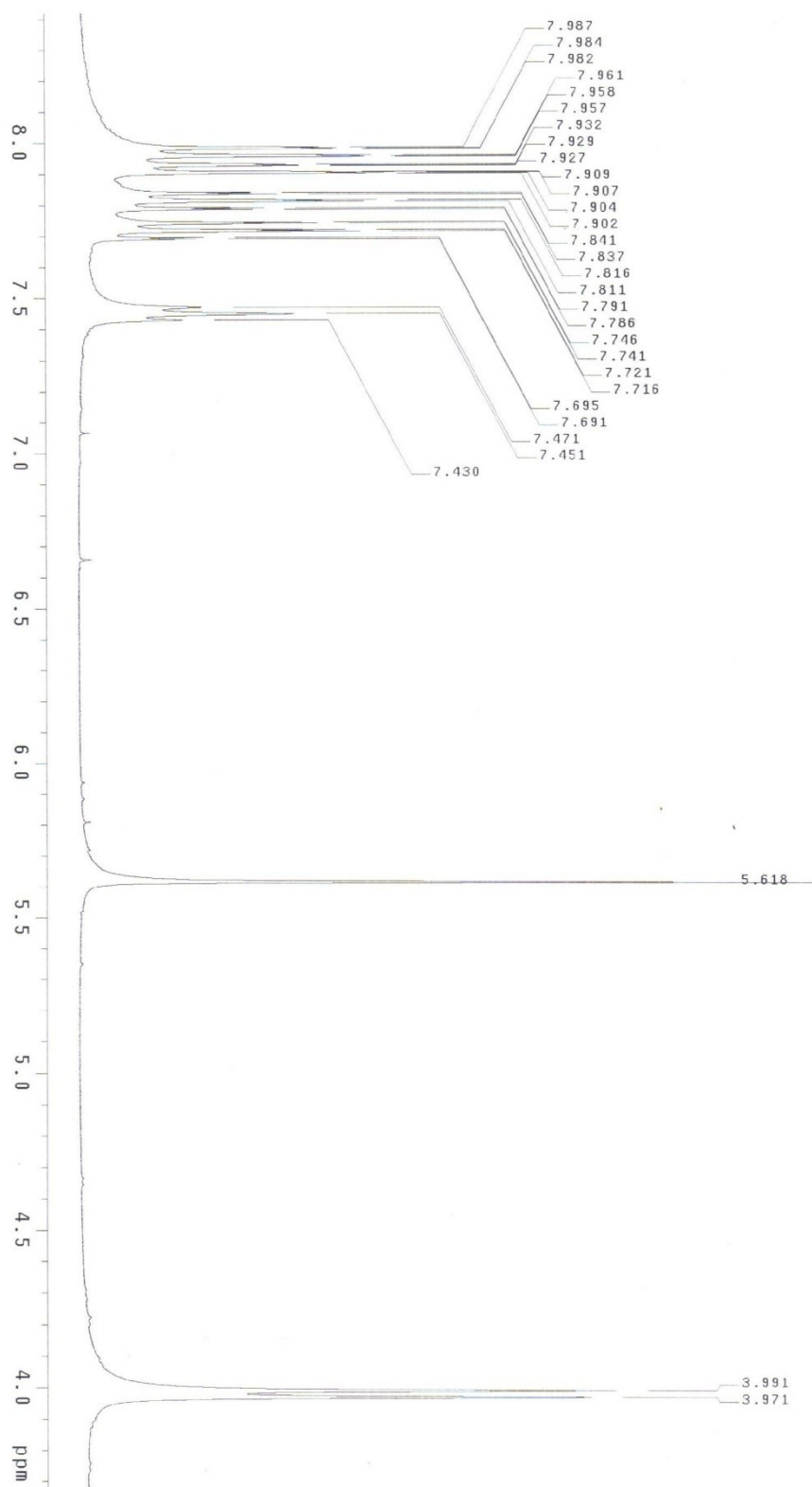


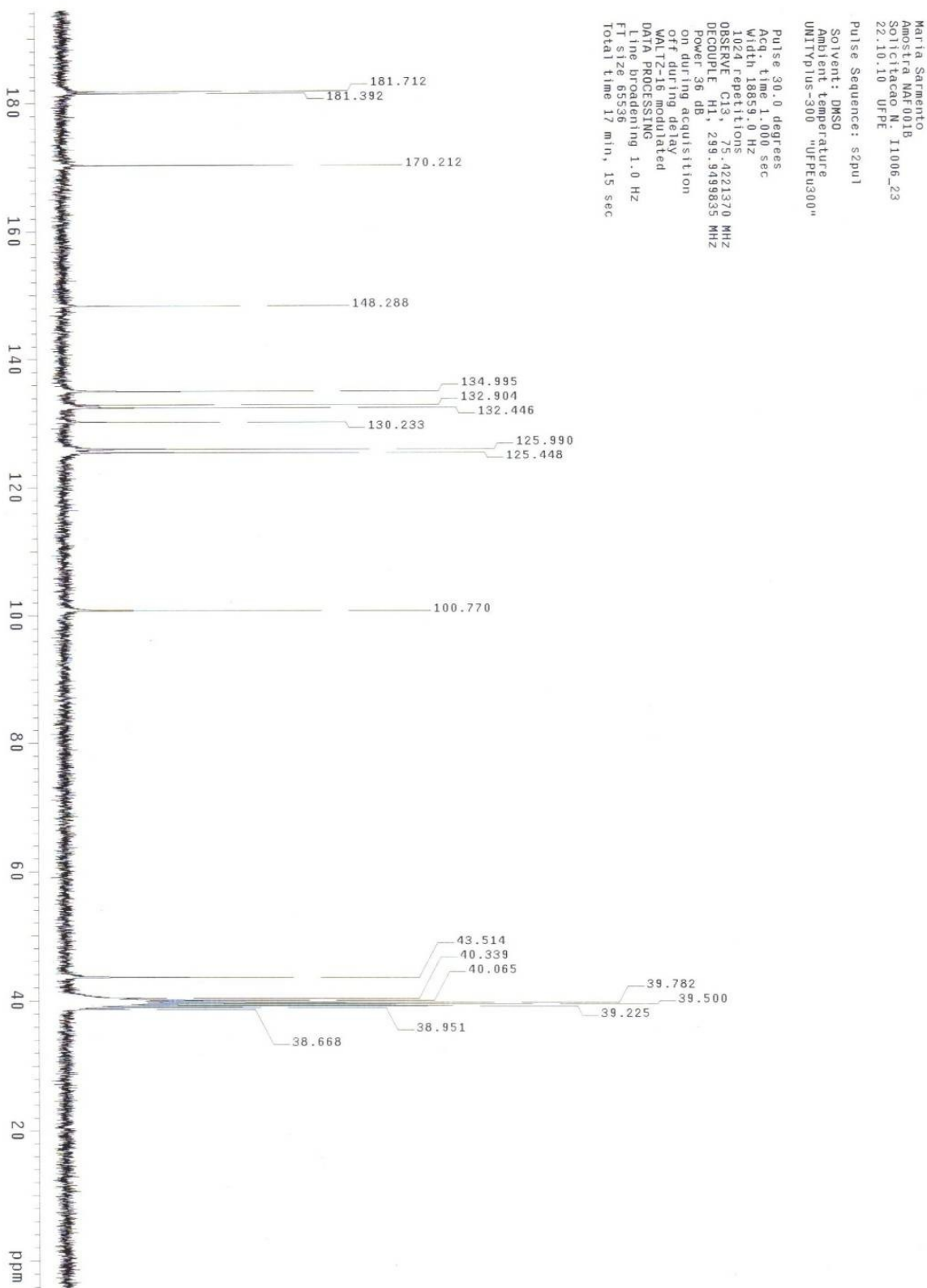
Figure S3. ^{13}C NMR of (DMSO- d_6 , 75 MHz) of **2**.

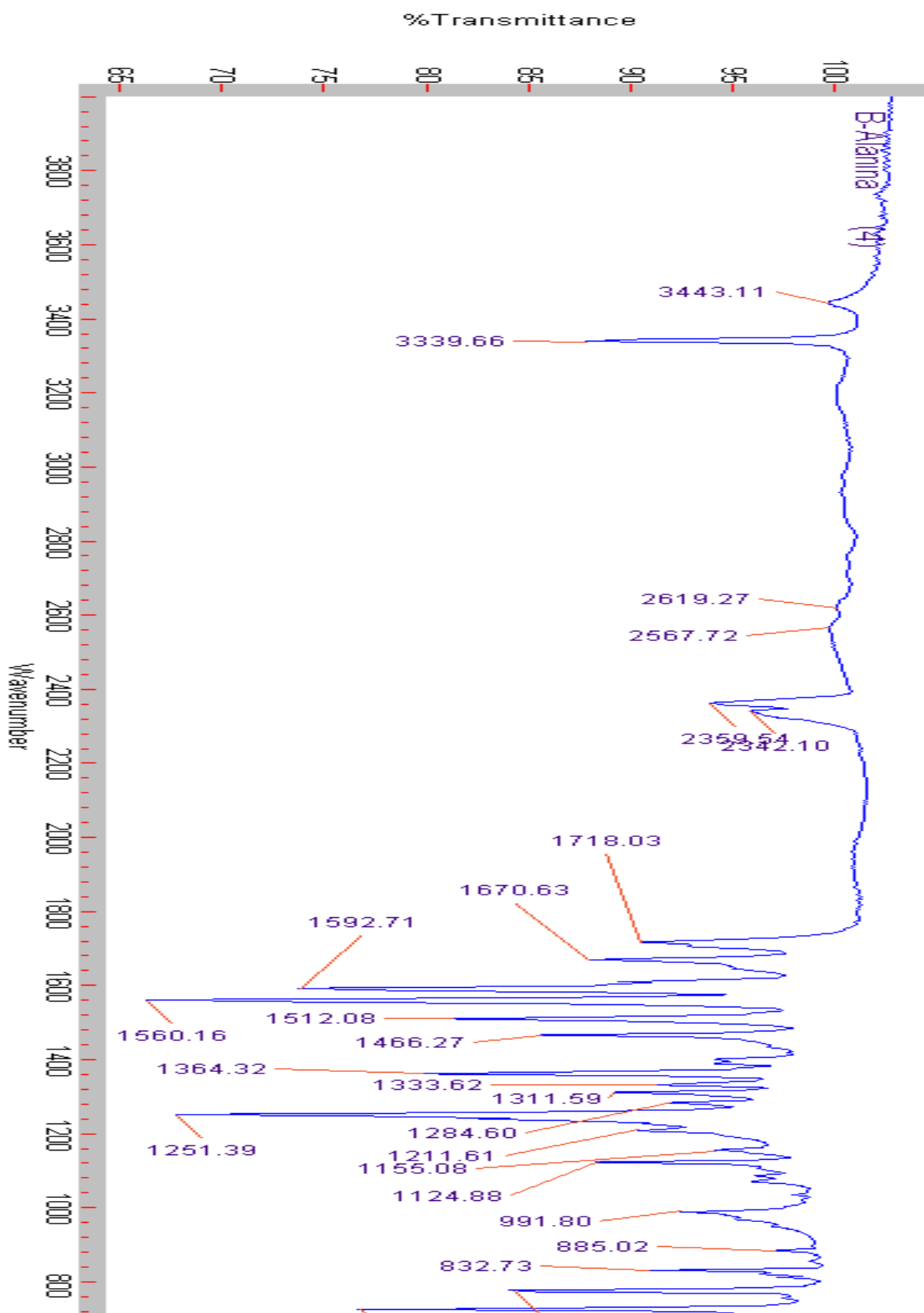
Figure S4. IR (ATR, cm^{-1}) of compound 3.

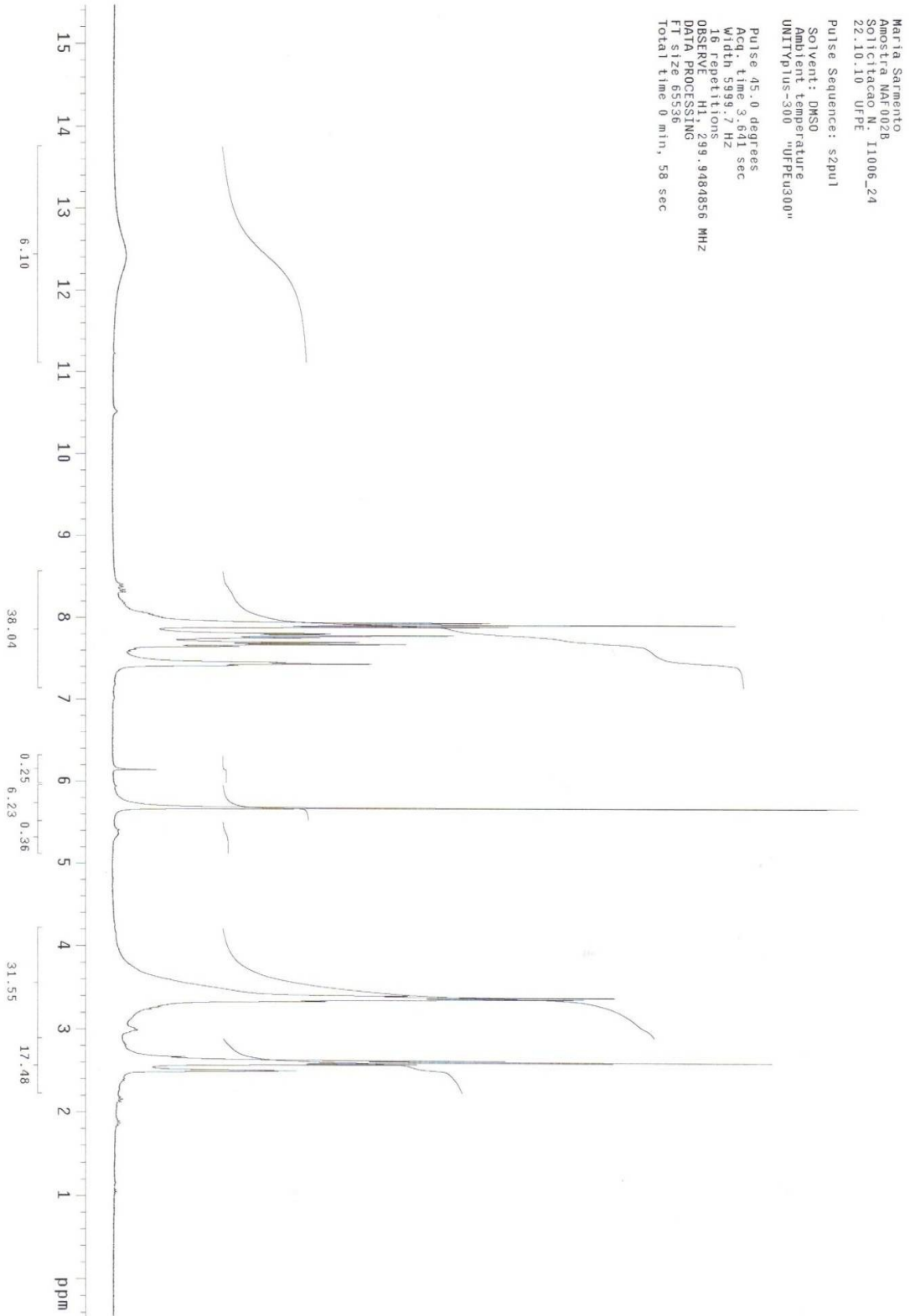
Figure S5. ^1H NMR (DMSO- d_6 , 300 MHz) of **3**.

Figure S5. Cont.

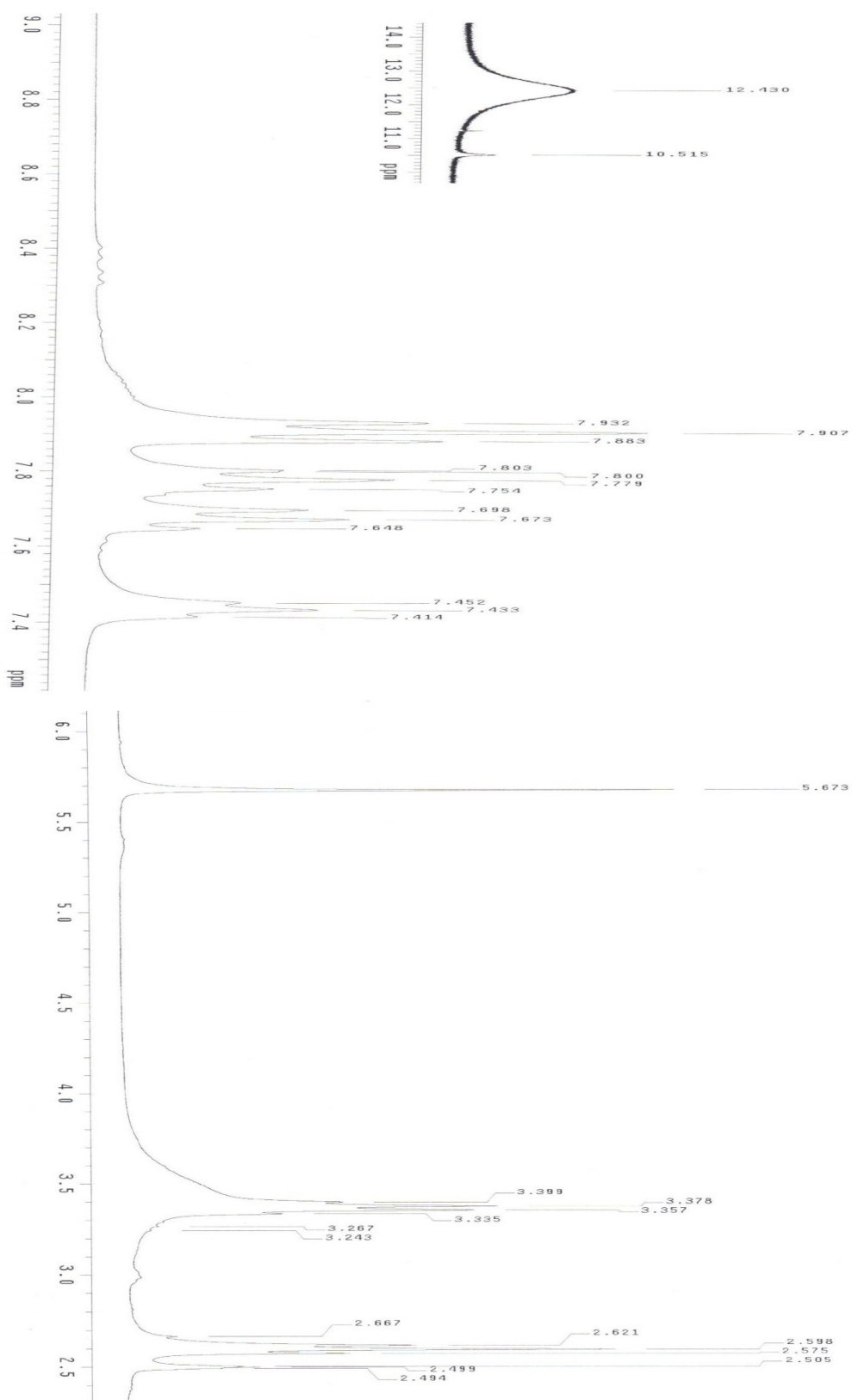


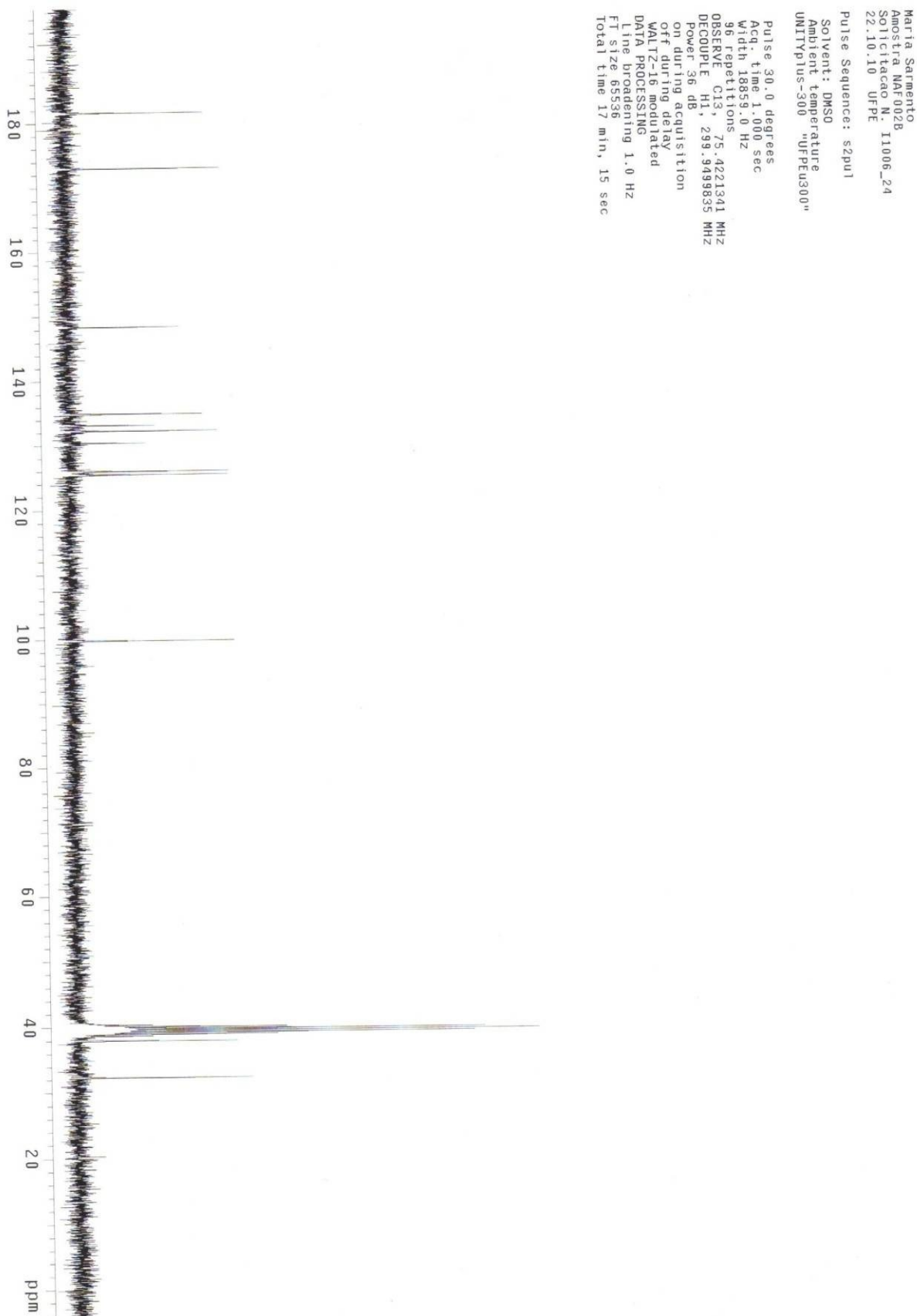
Figure S6. ^{13}C NMR (DMSO- d_6 , 75 MHz) and expansion of **3**.

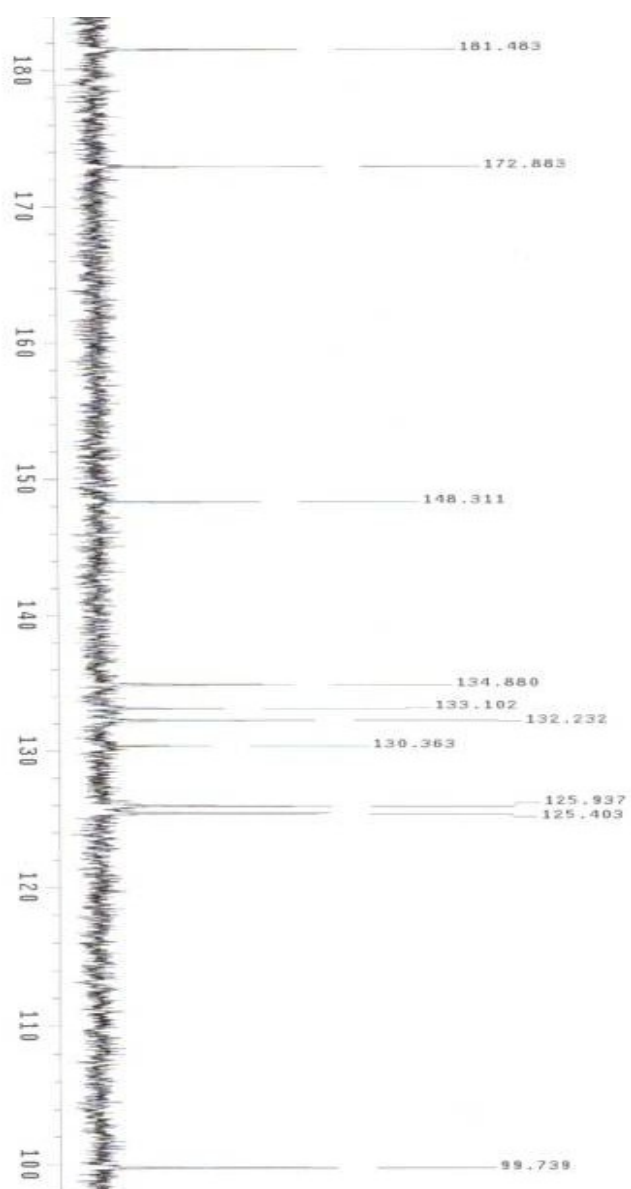
Figure S6. *Cont.*

Figure S7. IR (ATR) of 4.

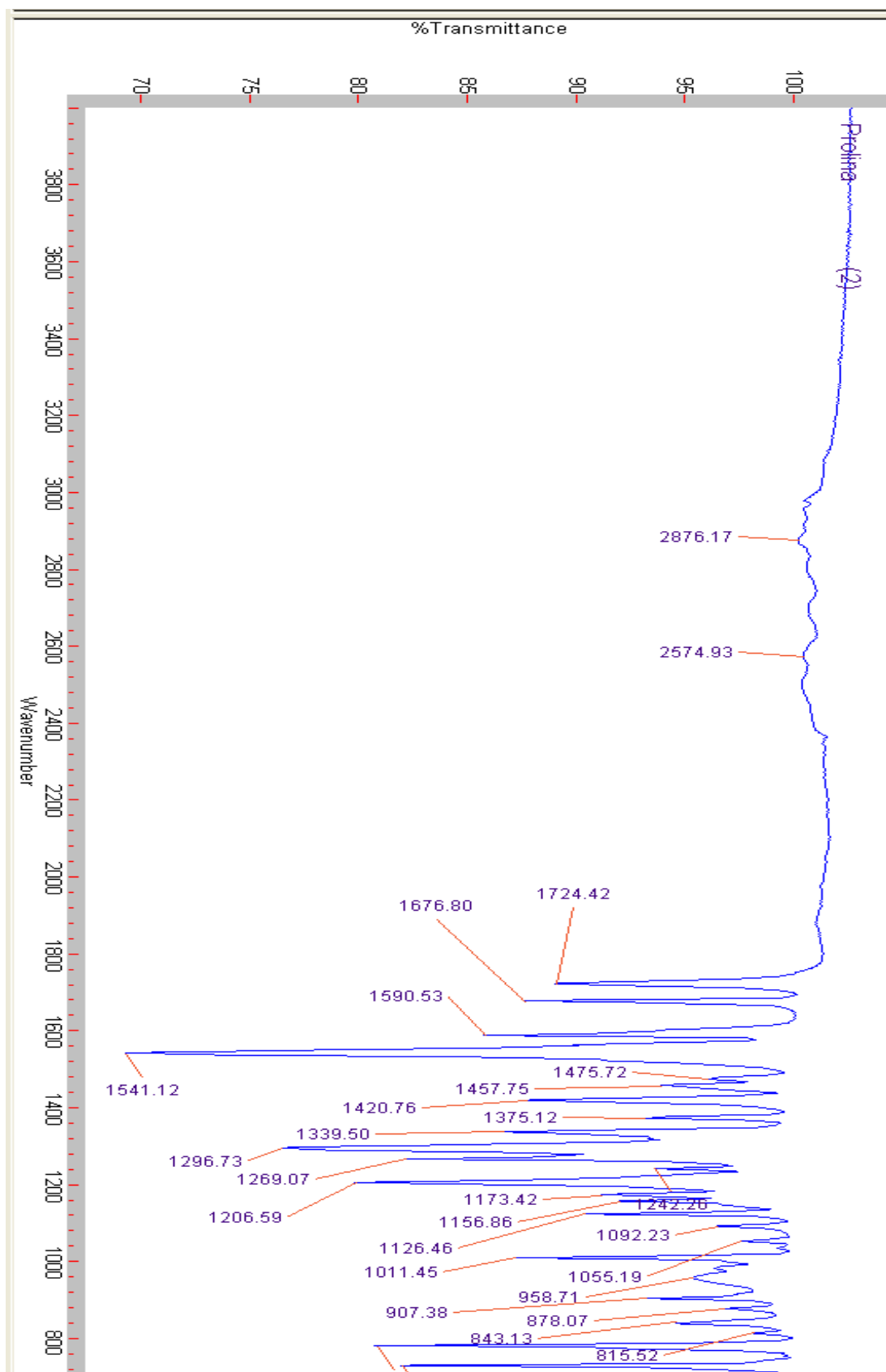


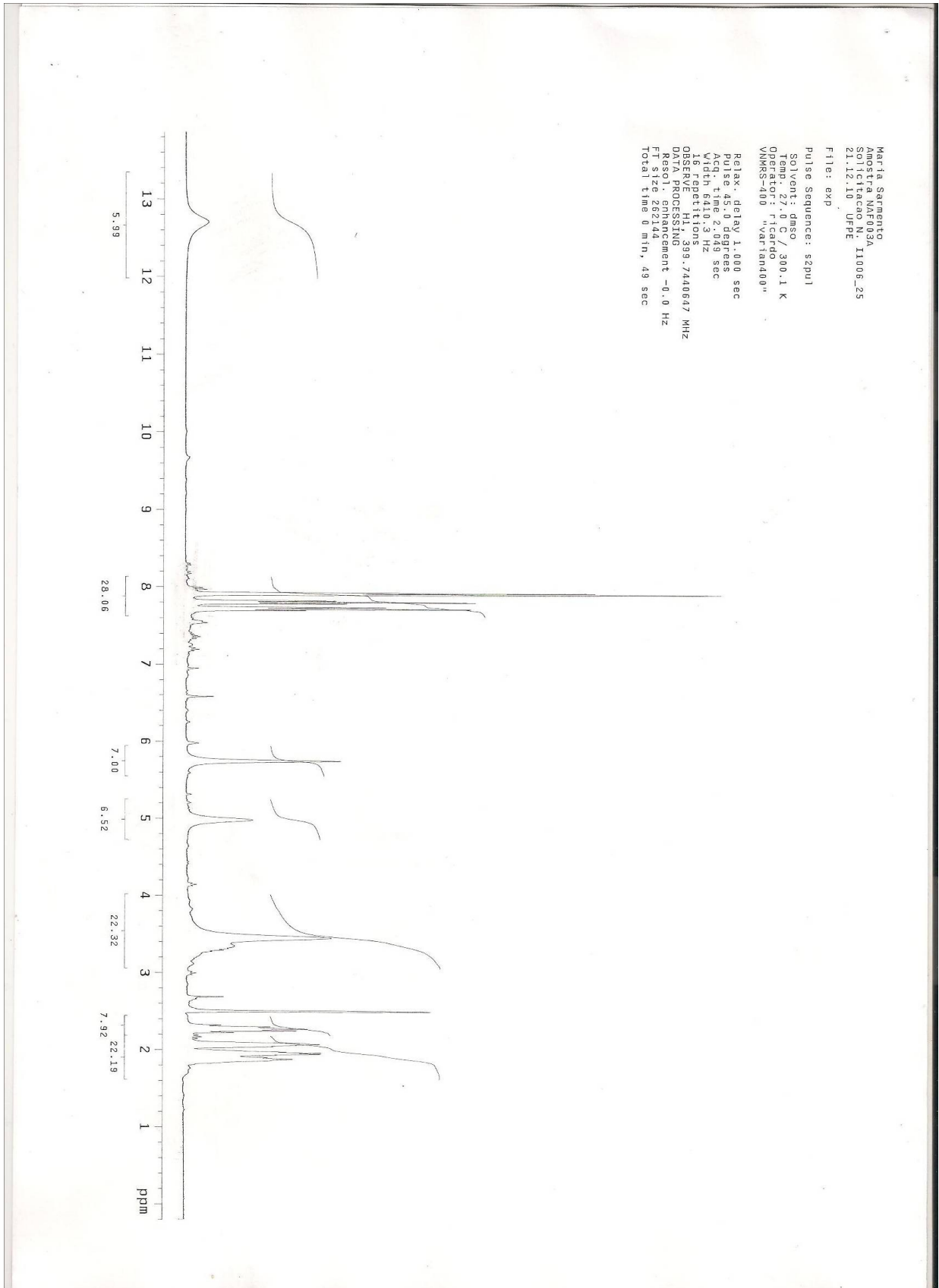
Figure S8. ^1H NMR (DMSO- d_6 , 400 MHz) and expansions of **4**.

Figure S8. Cont.

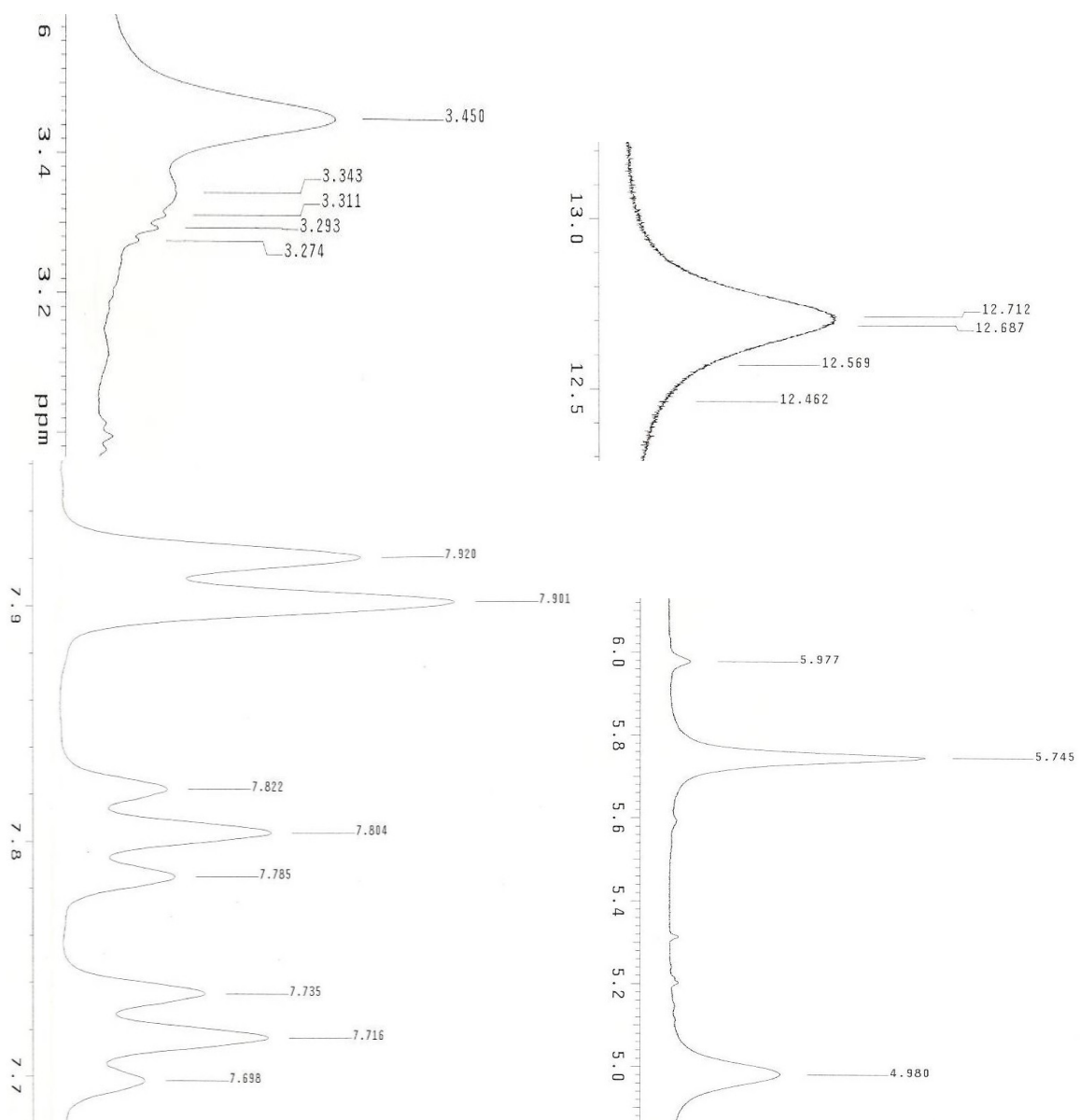


Figure S8. Cont.

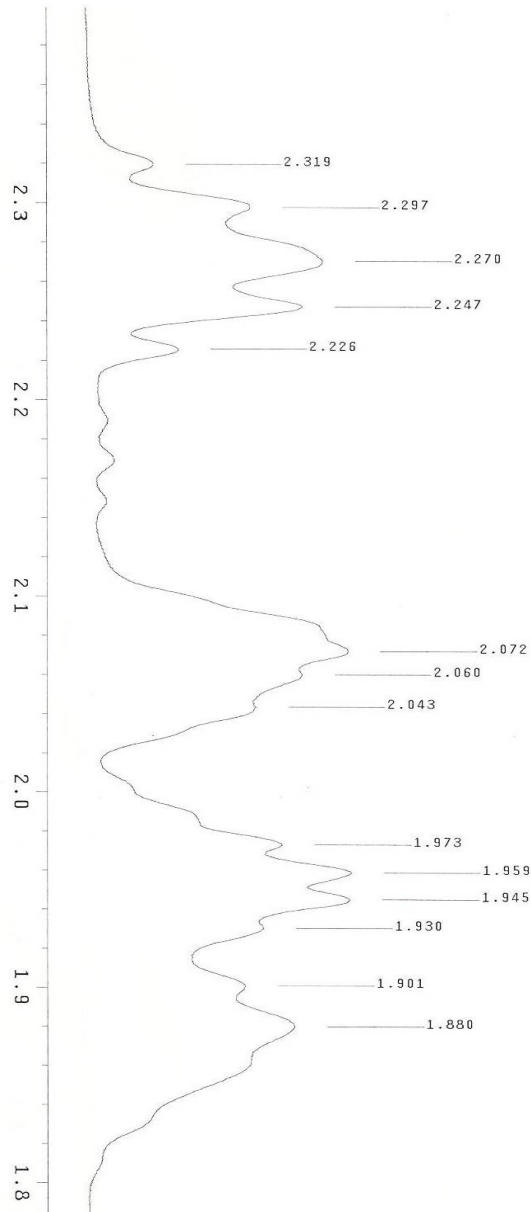


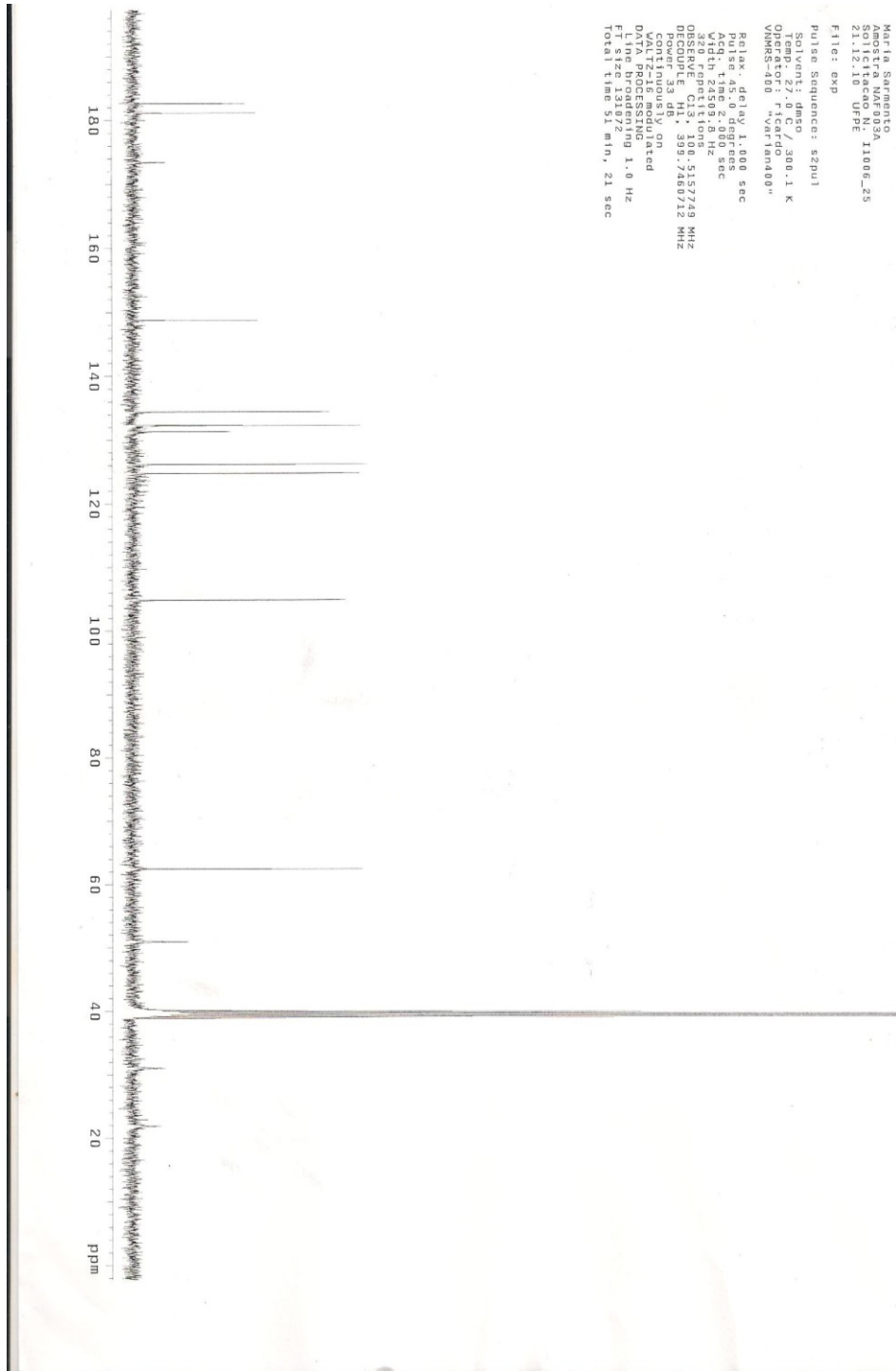
Figure S9. ^{13}C NMR (100 MHz, $\text{DMSO-}d_6$) and expansions of **4**.

Figure S9. Cont.

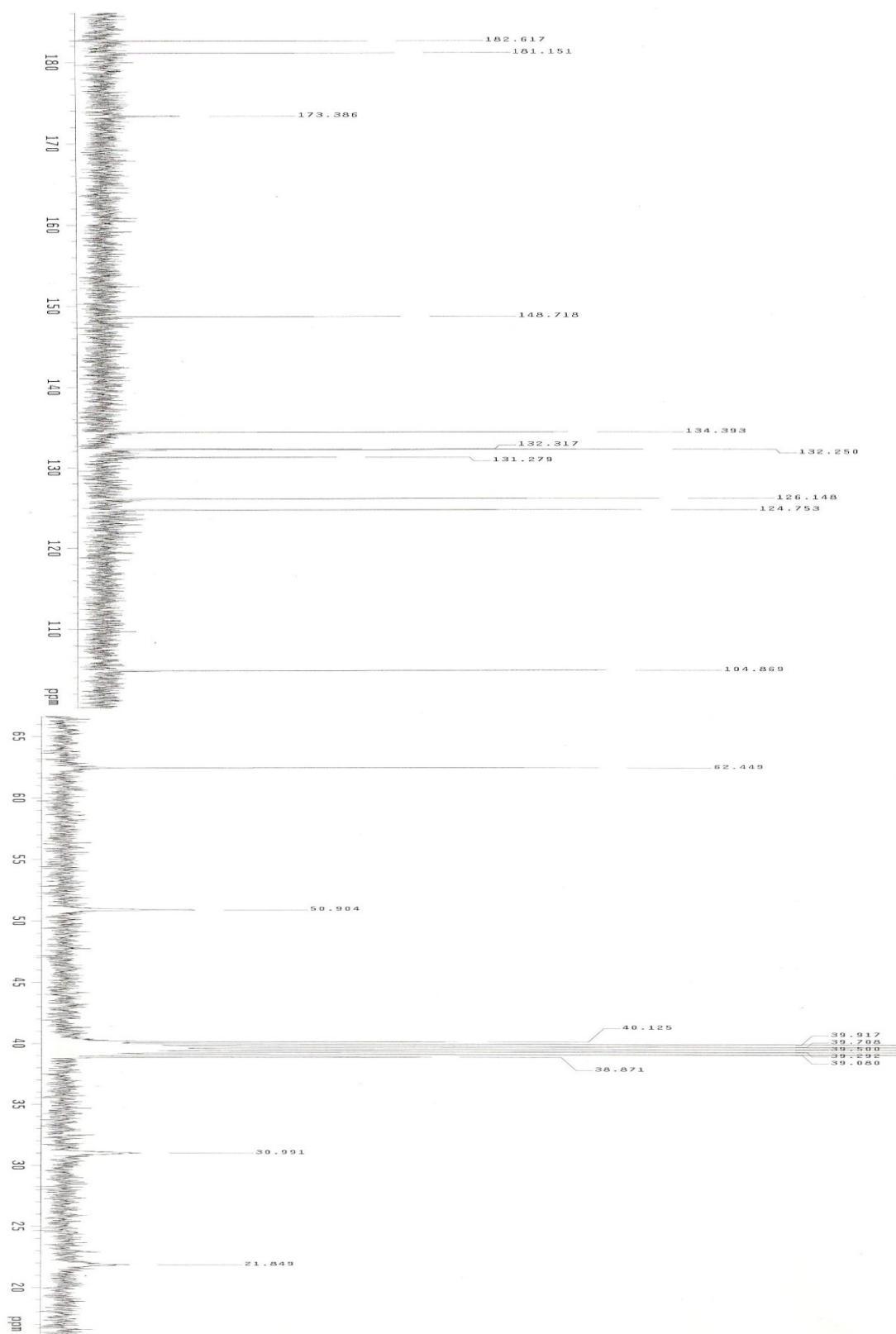


Figure S10. IR (ATR) of 5.

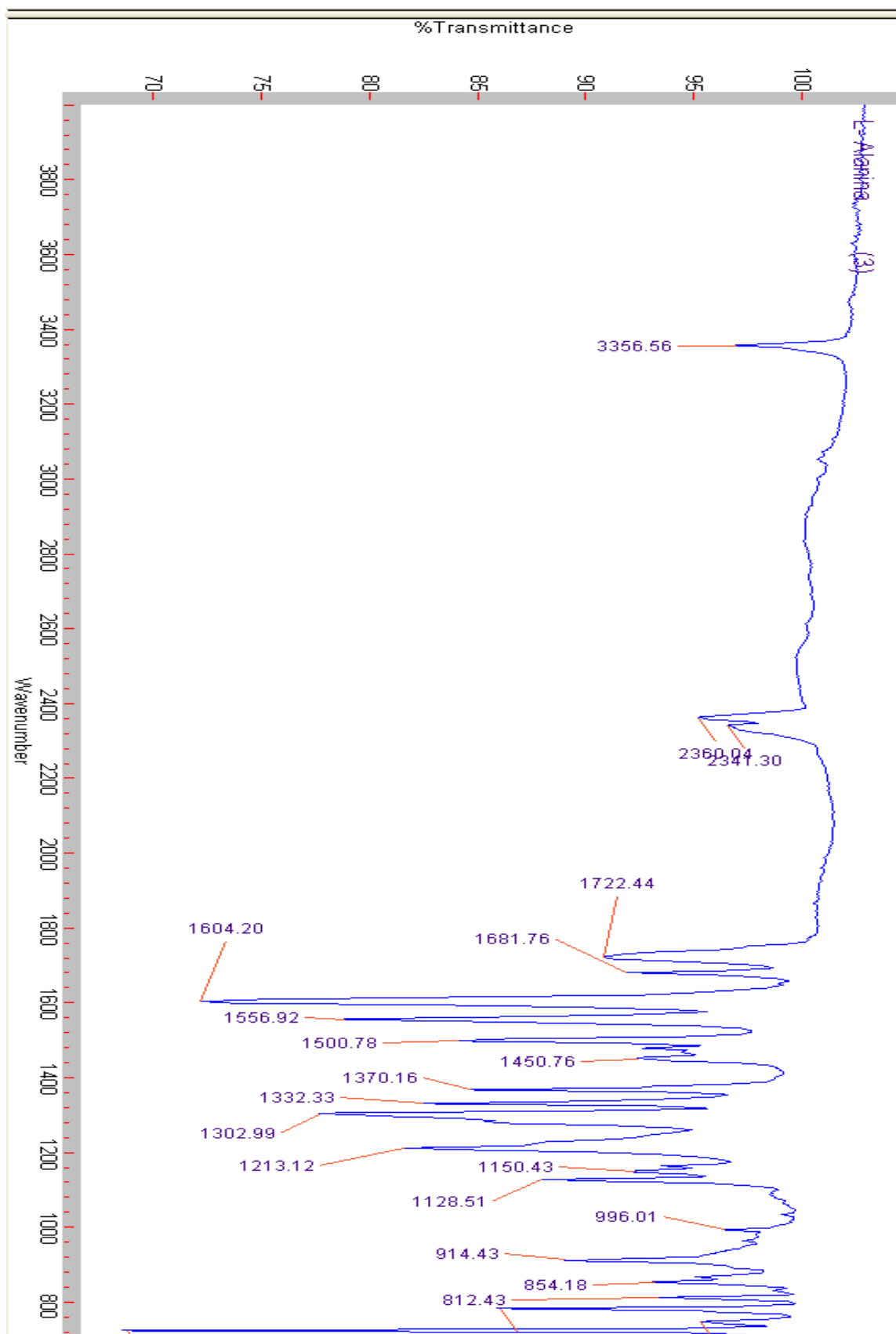


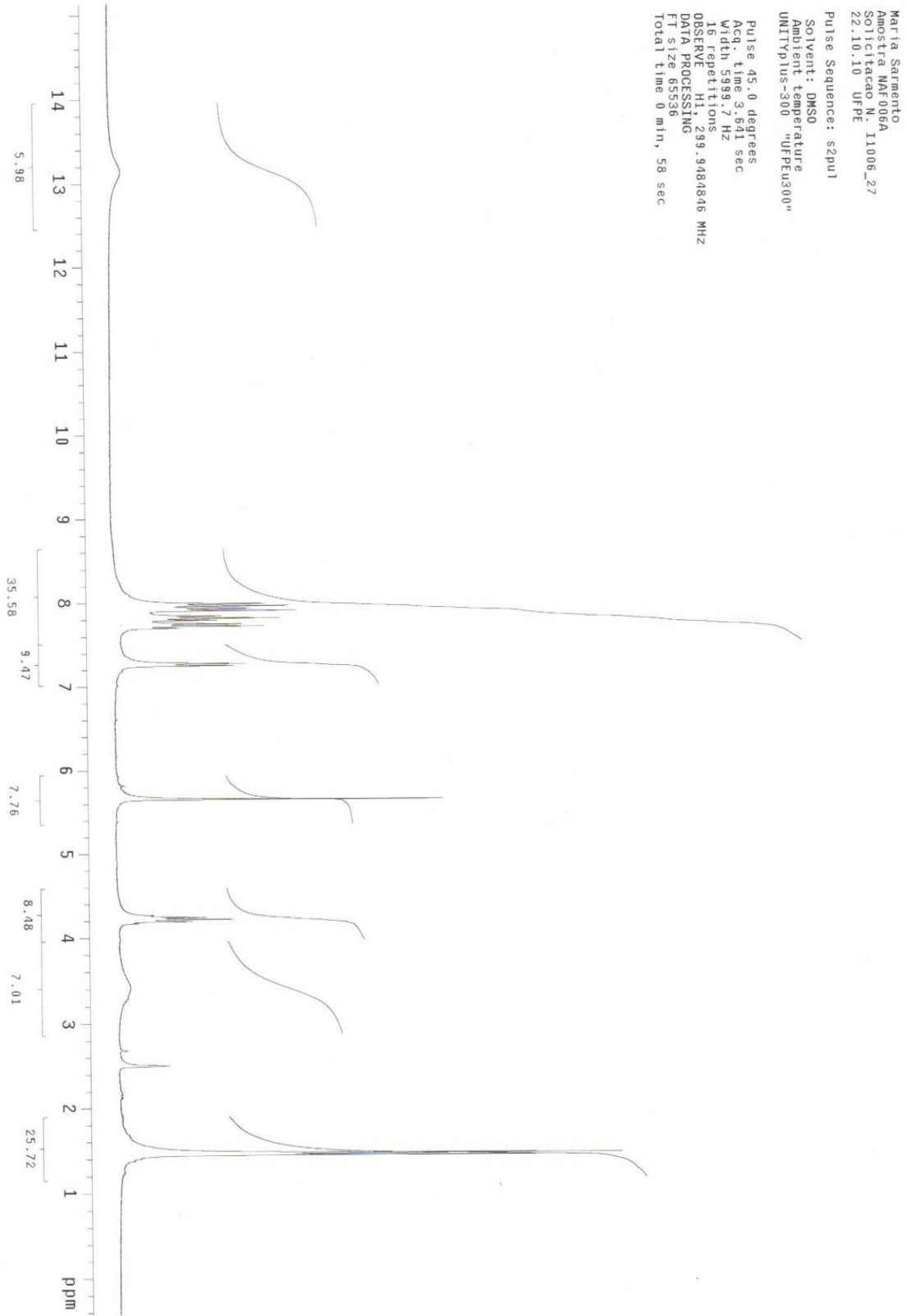
Figure S11. ^1H NMR (300 MHz, $\text{DMSO-}d_6$) and expansion of **5**.

Figure S11. Cont.

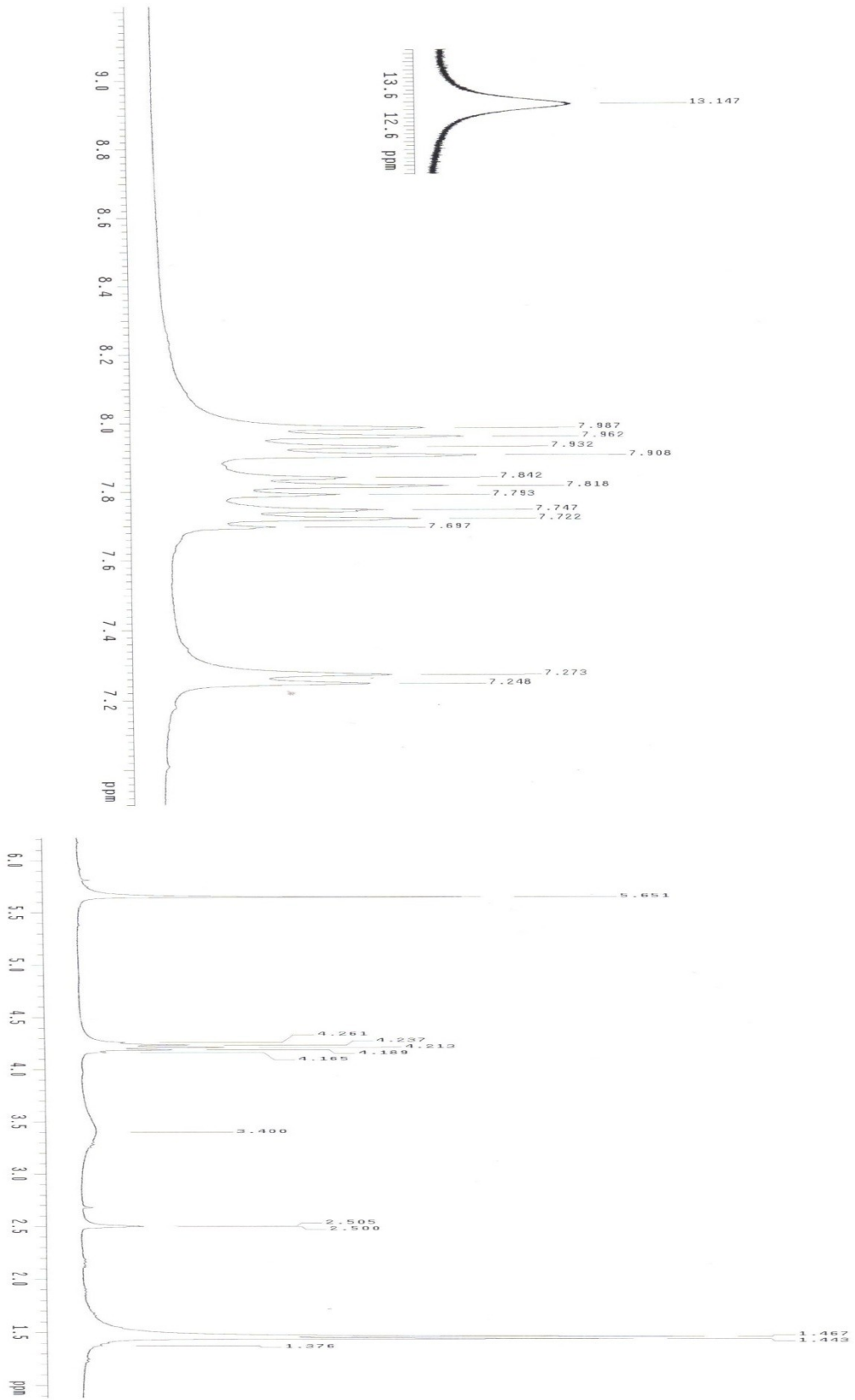


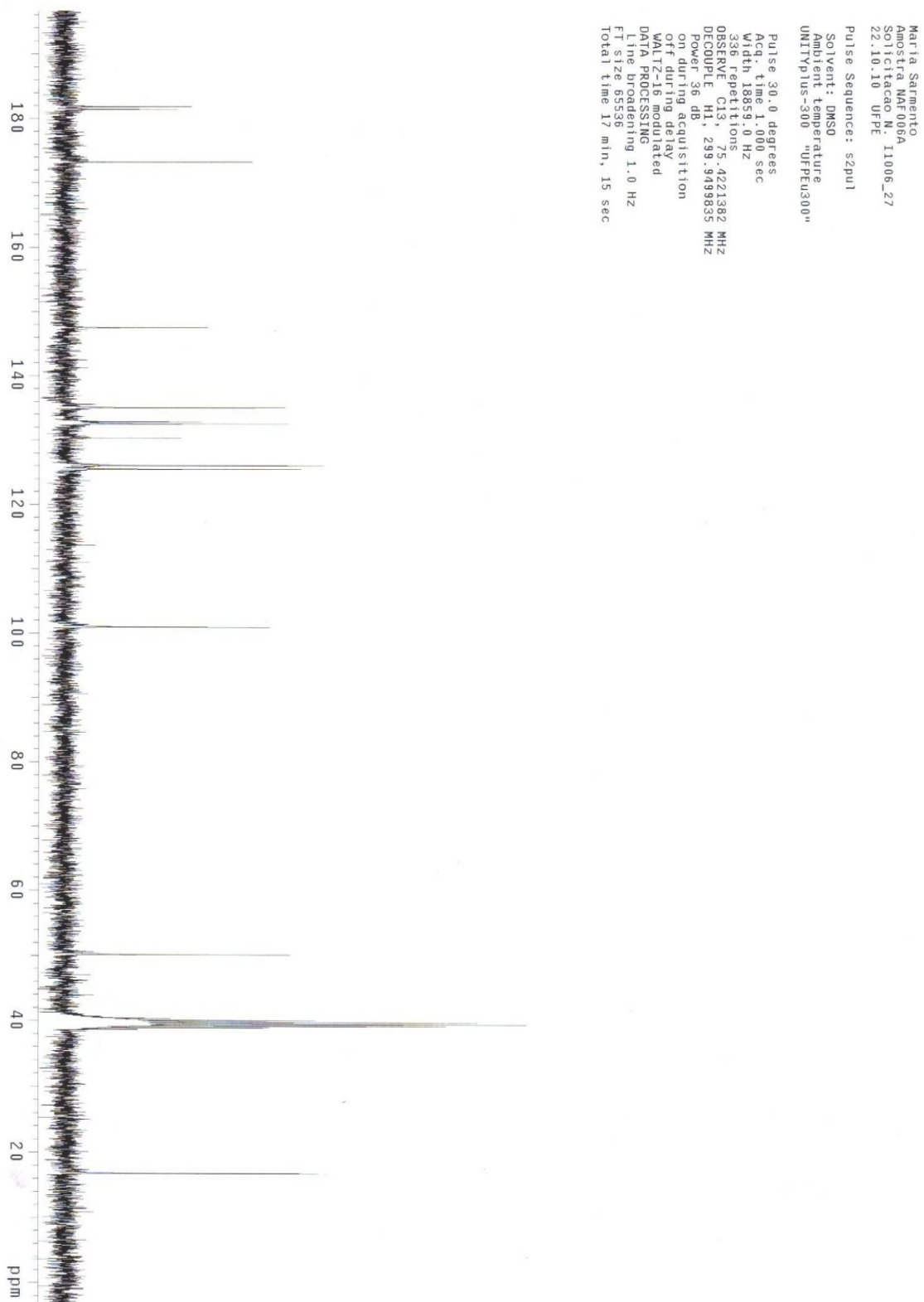
Figure S12. ^{13}C NMR (75 MHz, $\text{DMSO-}d_6$) and expansions of **5**.

Figure S12. Cont.

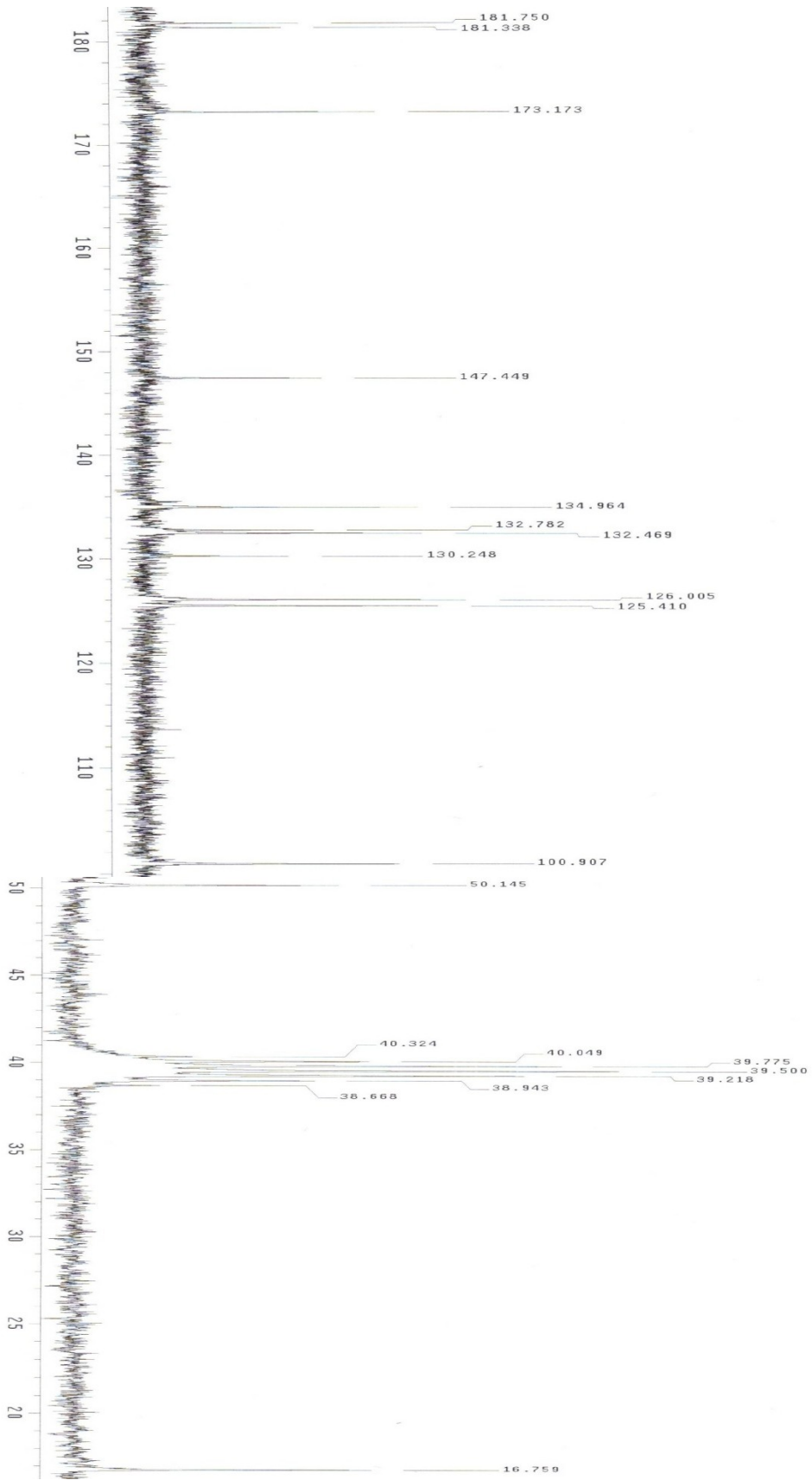


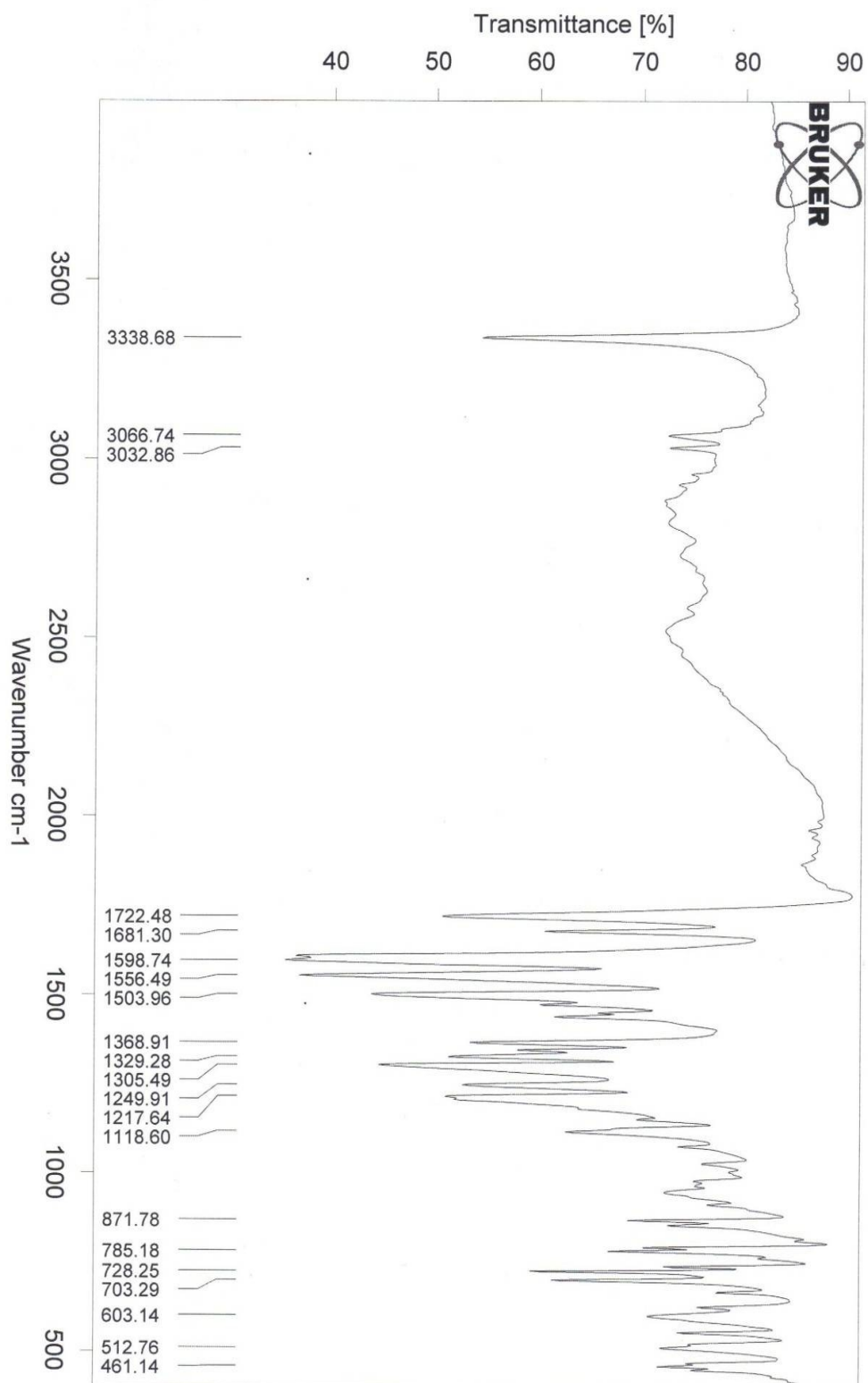
Figure S13. IR (KBr, cm^{-1}) of 6.

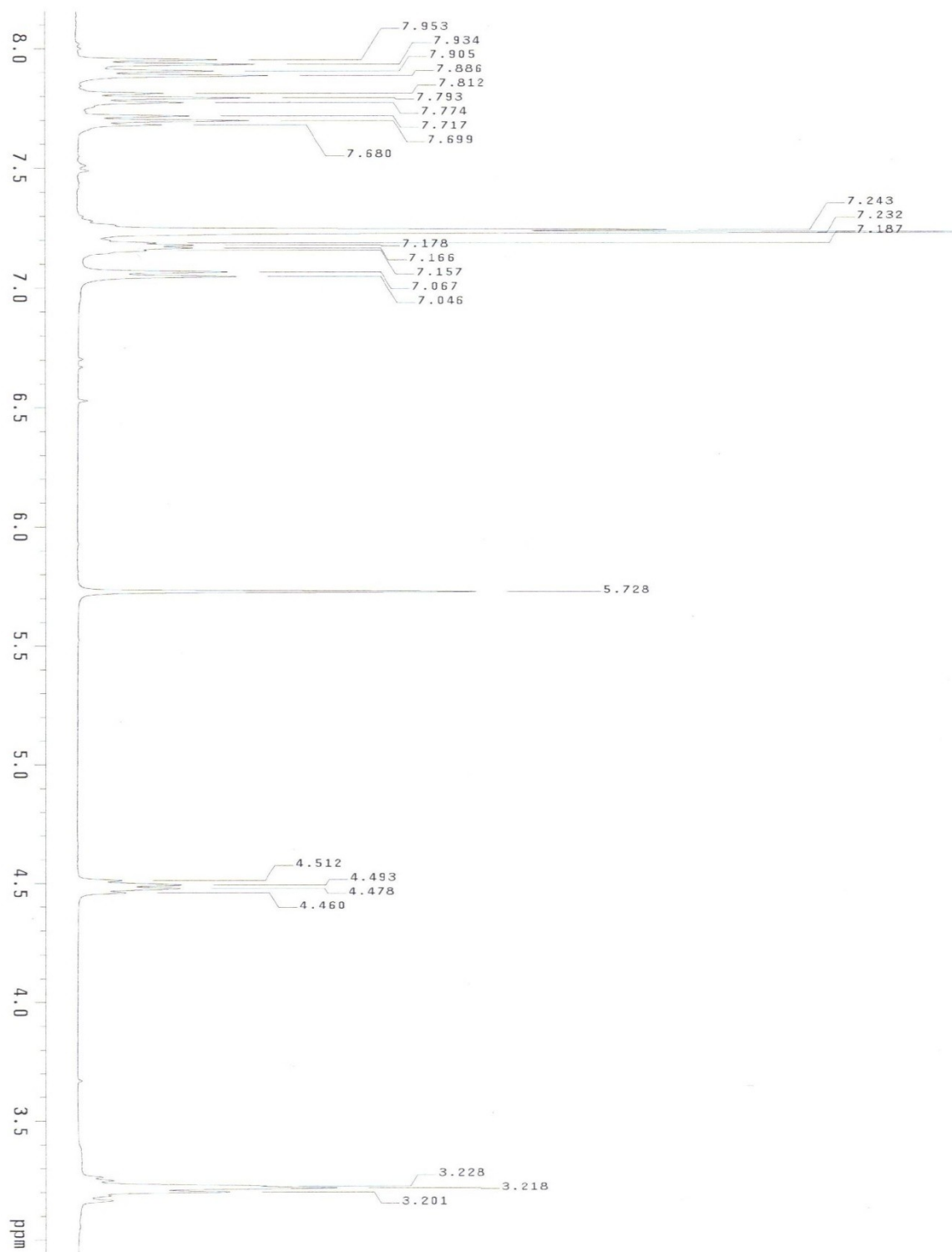
Figure S14. ^1H NMR (400 MHz, $\text{DMSO-}d_6$) and expansion of **6**.

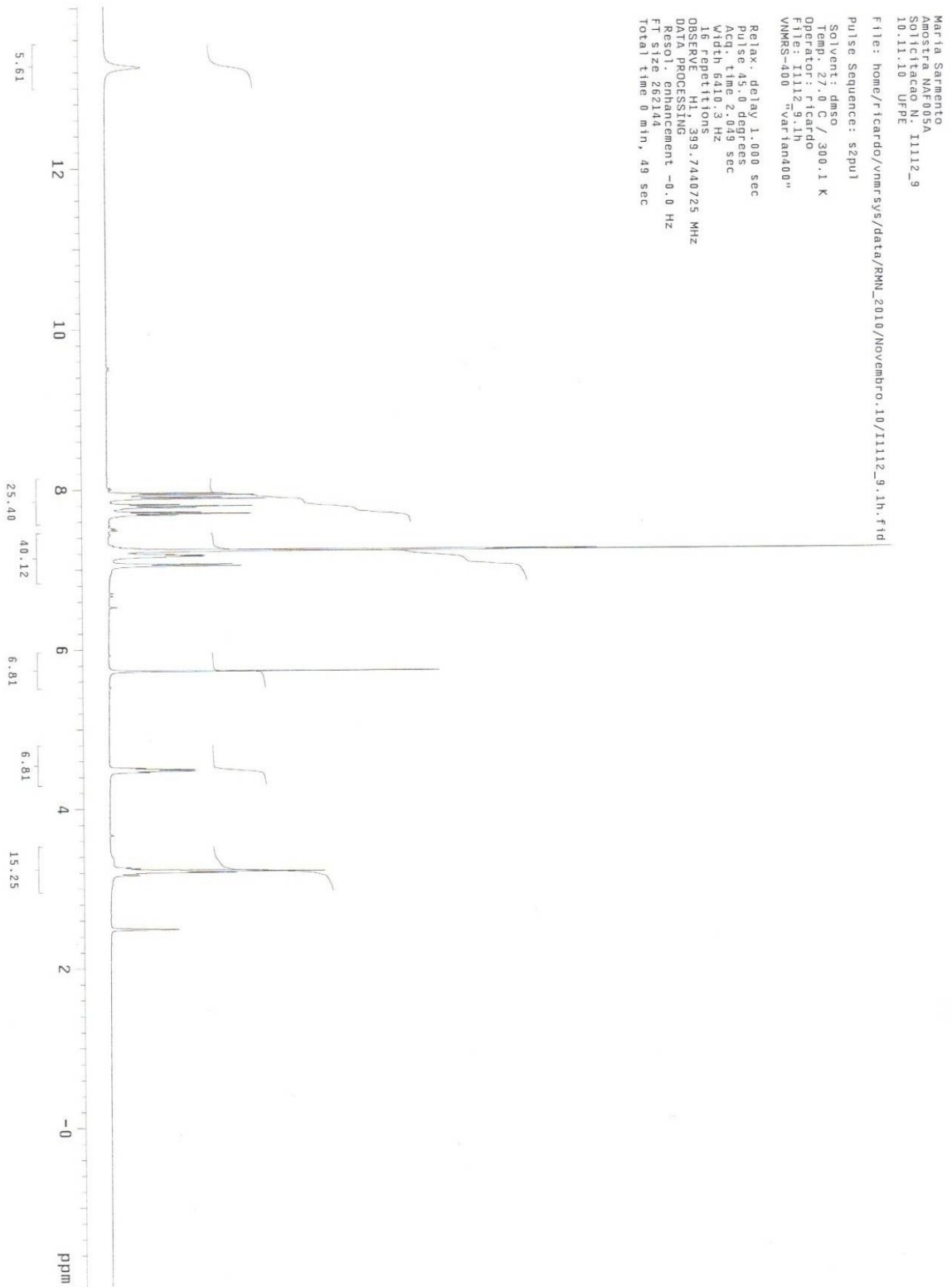
Figure S14. *Cont.*

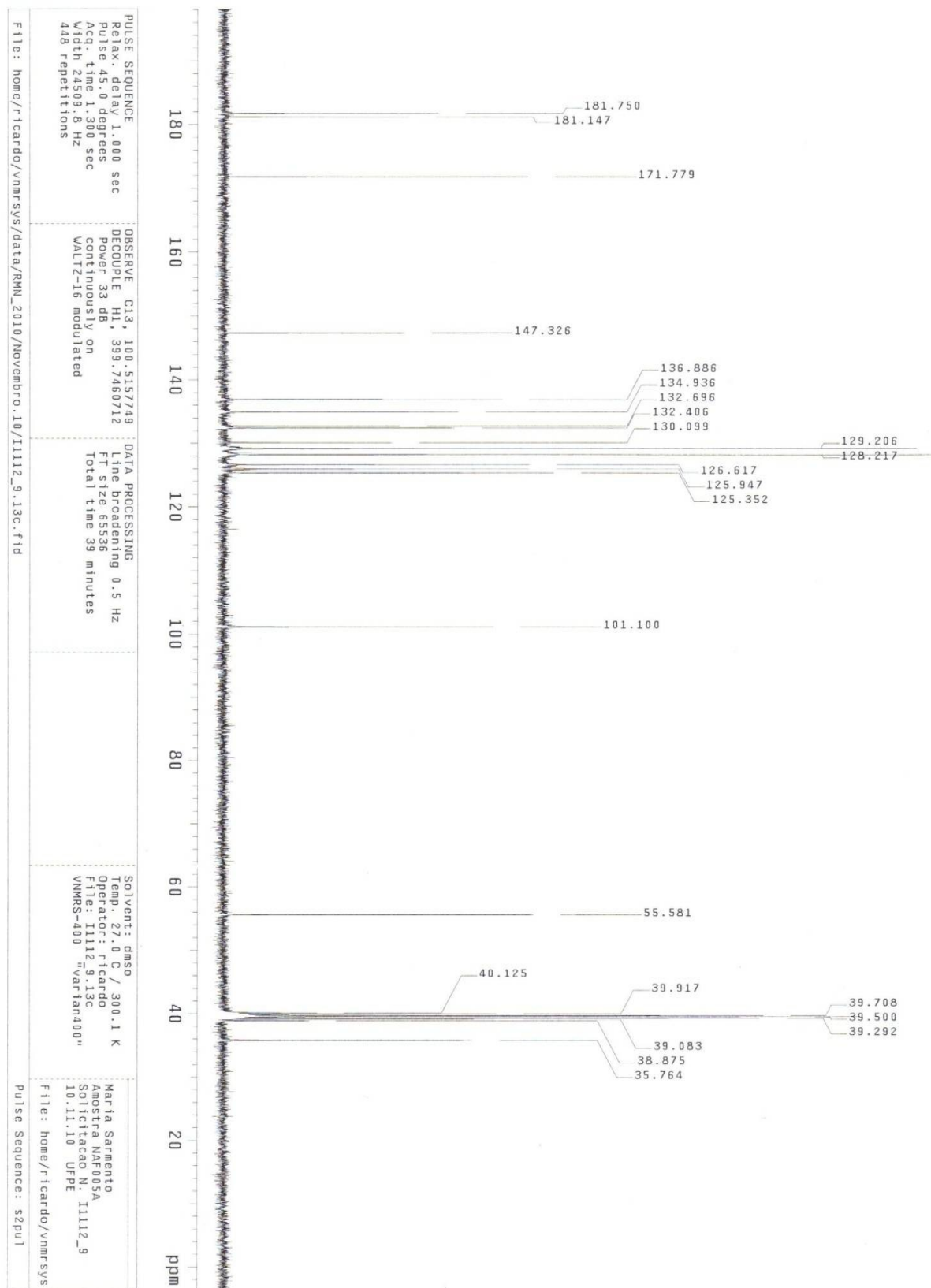
Figure S15. ^{13}C NMR (100 MHz, DMSO- d_6) of 6.

Figure S16. IR (ATR) of 7.

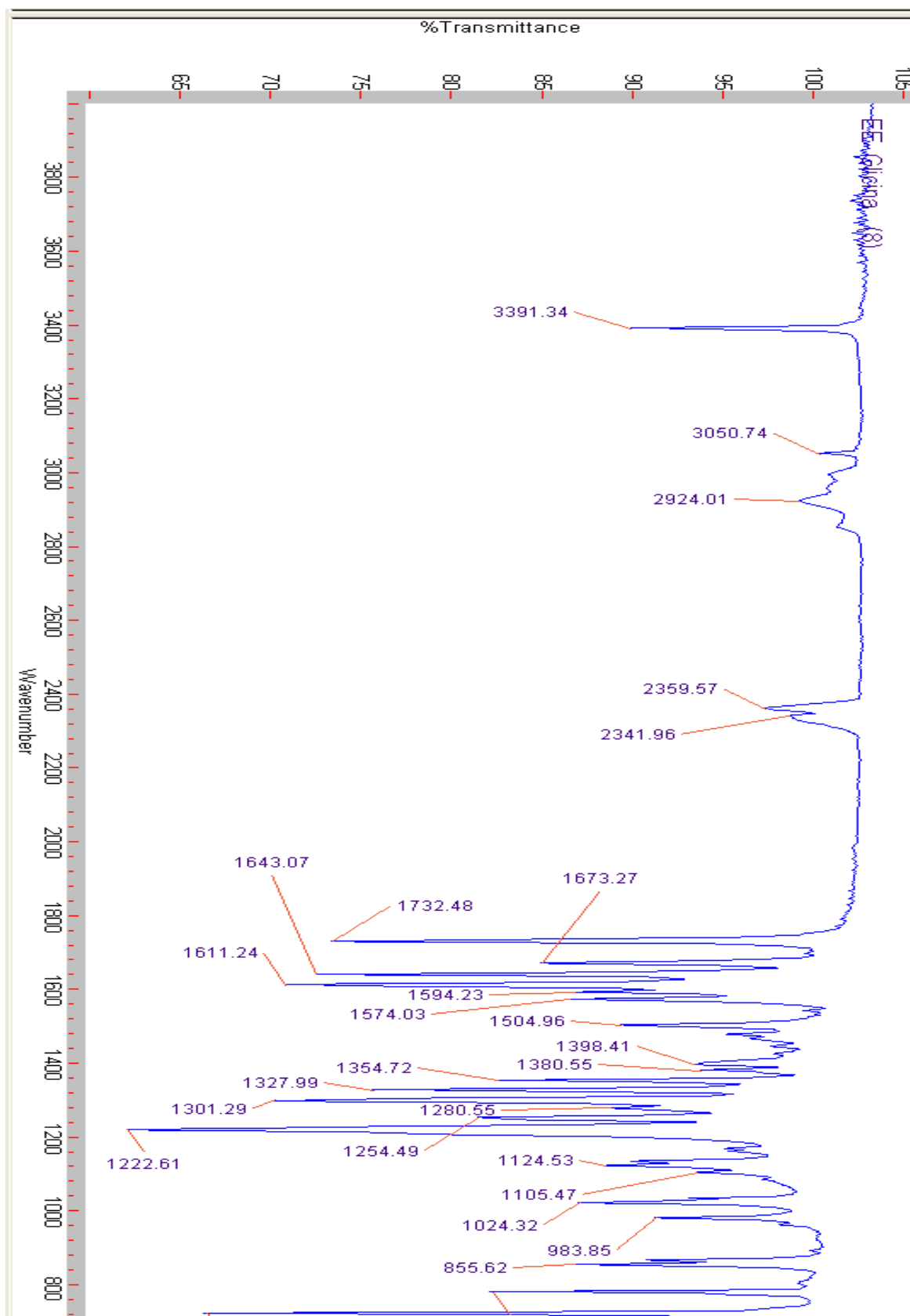


Figure S17. ¹H NMR (200 MHz, CDCl₃) and expansion of 7.

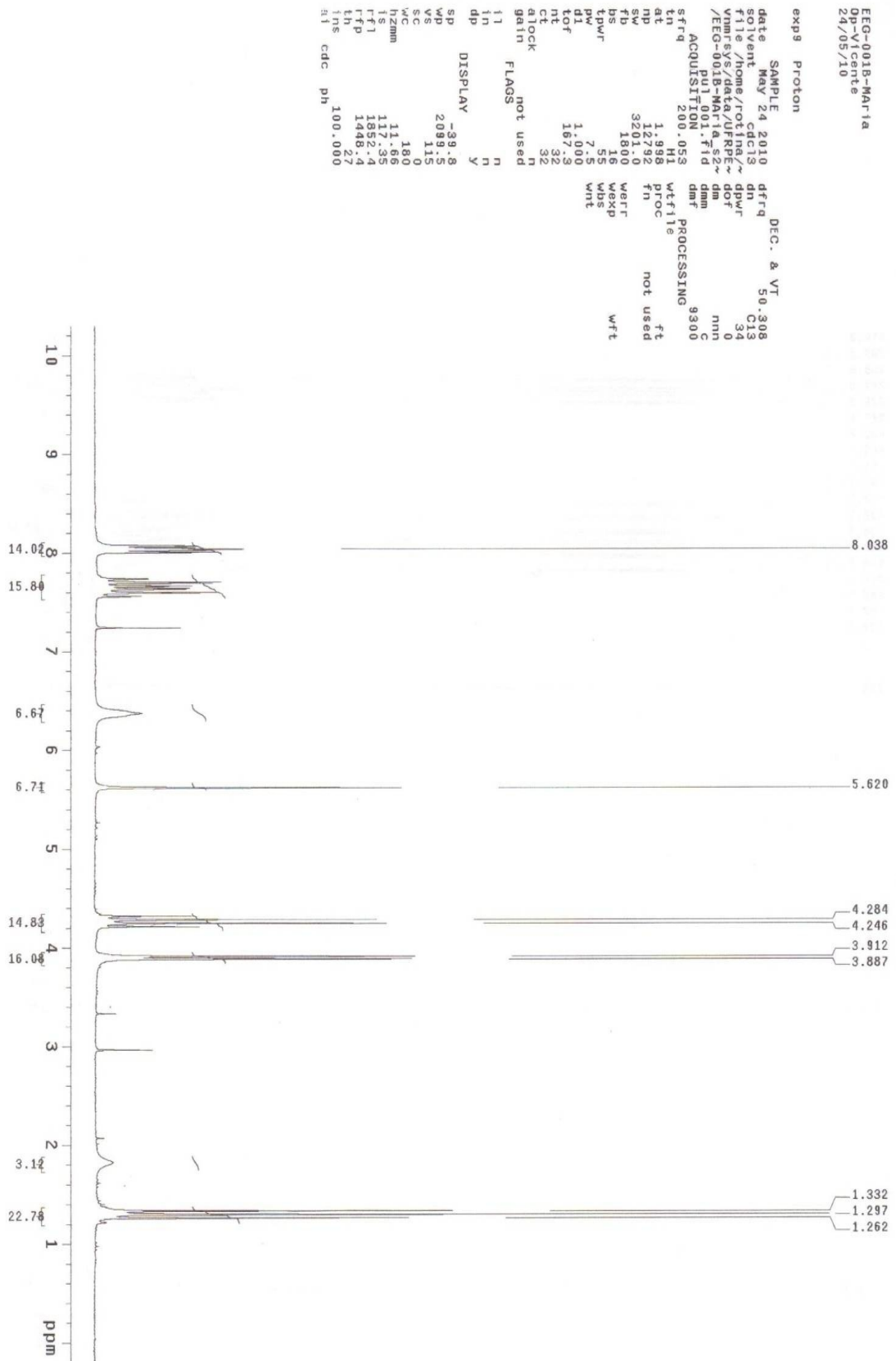


Figure S17. Cont.

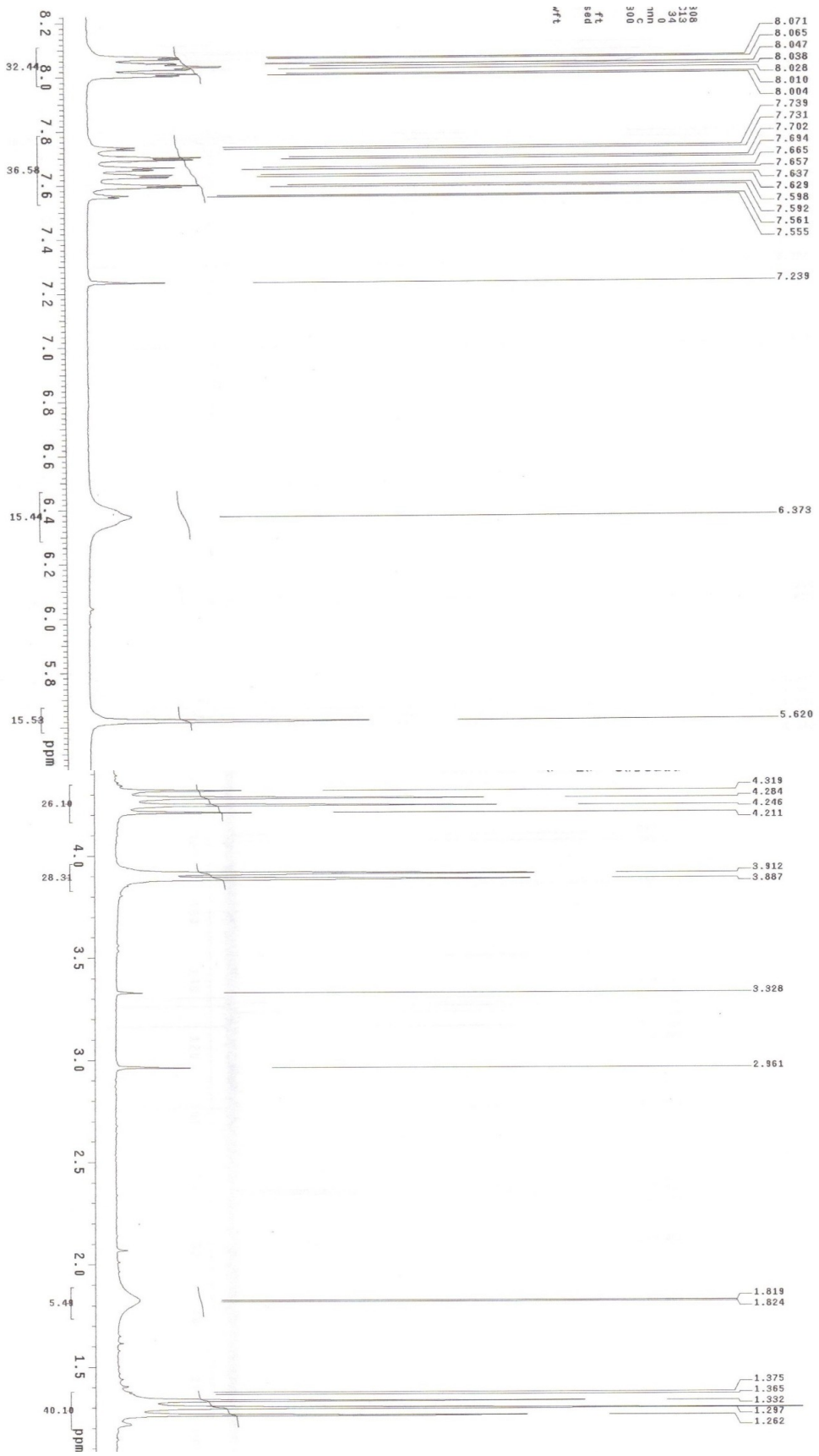


Figure S18. ¹³C NMR (APT, 50 MHz, CDCl₃) of 7.

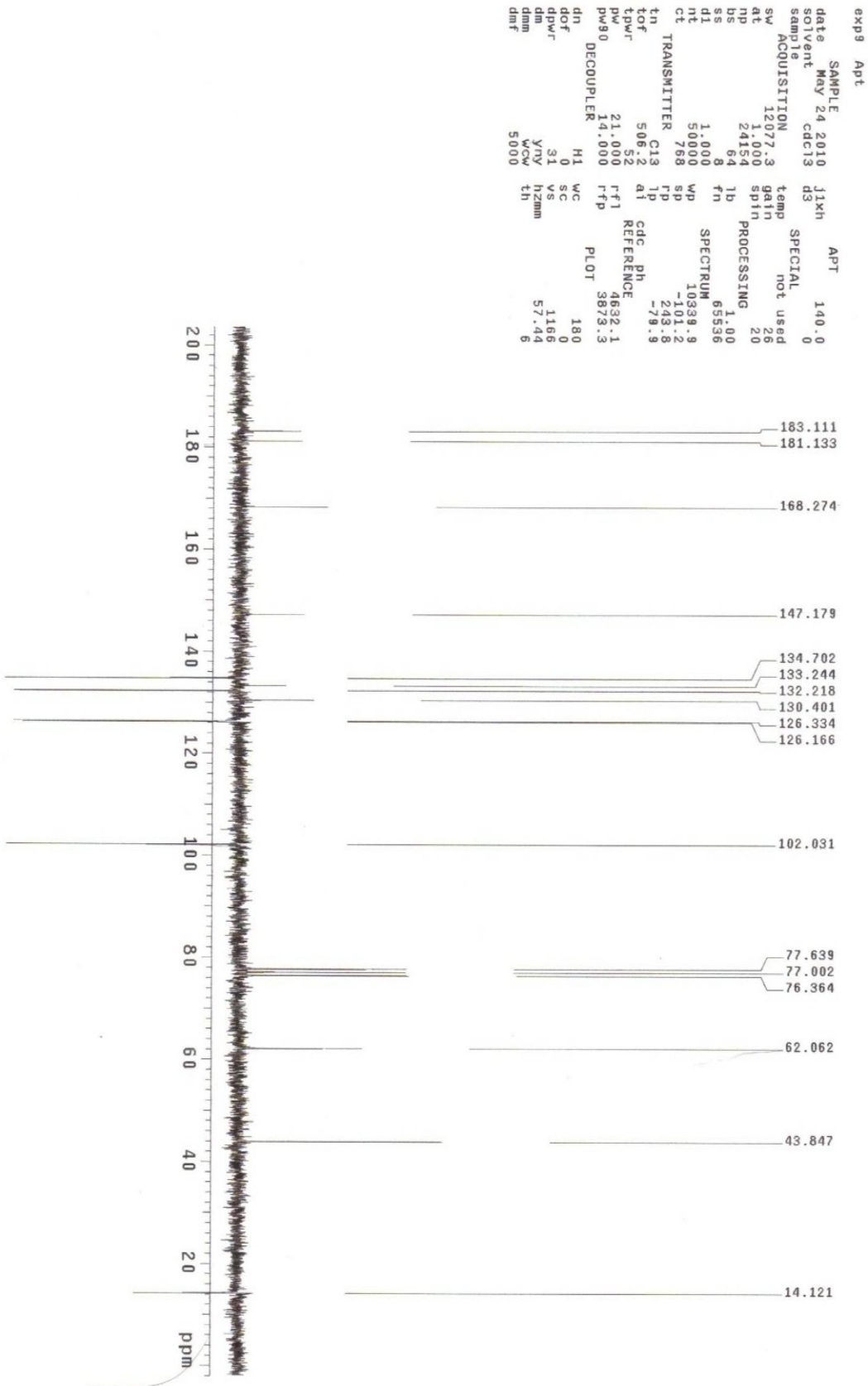


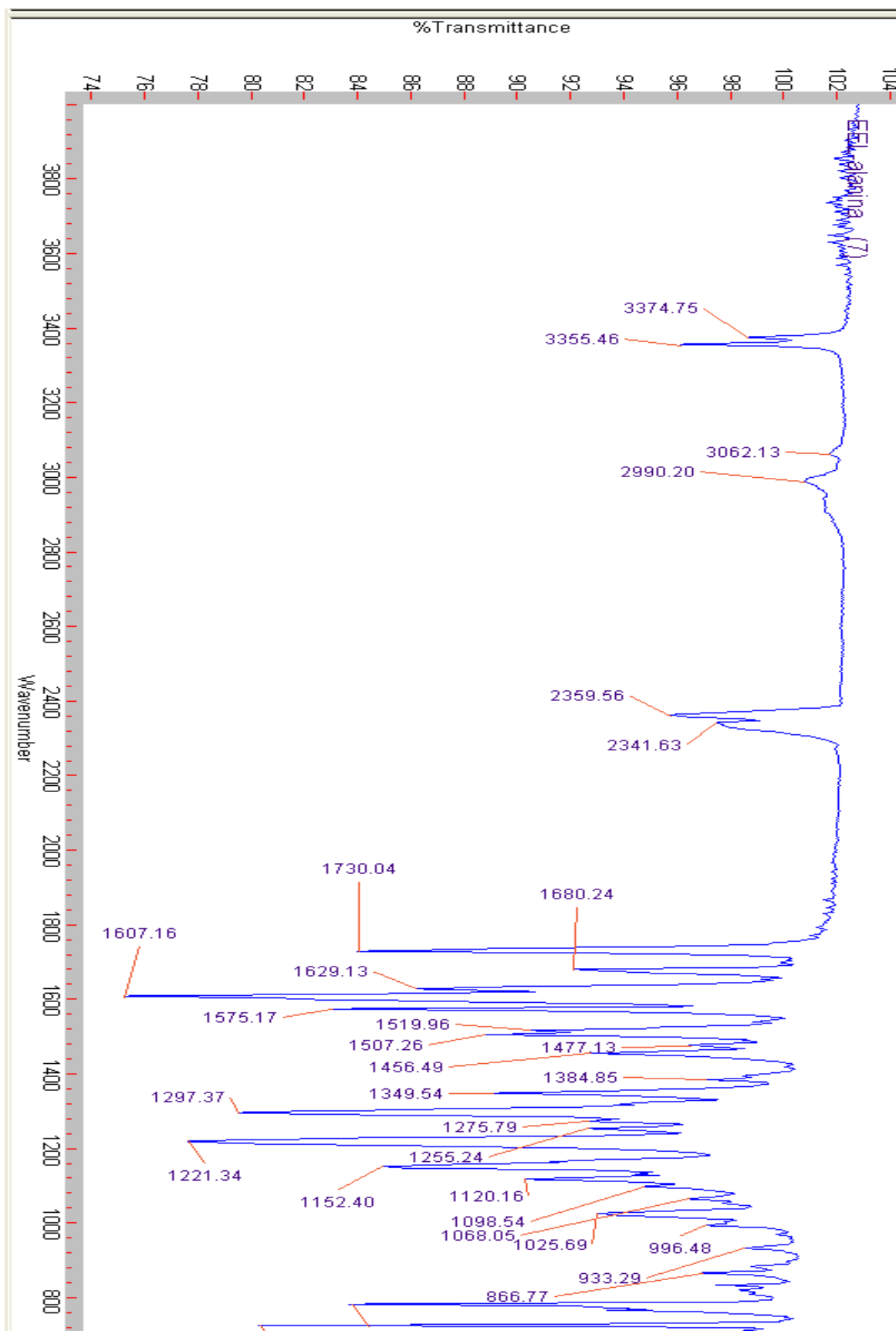
Figure S19. IR (ATR, cm^{-1}) of 9.

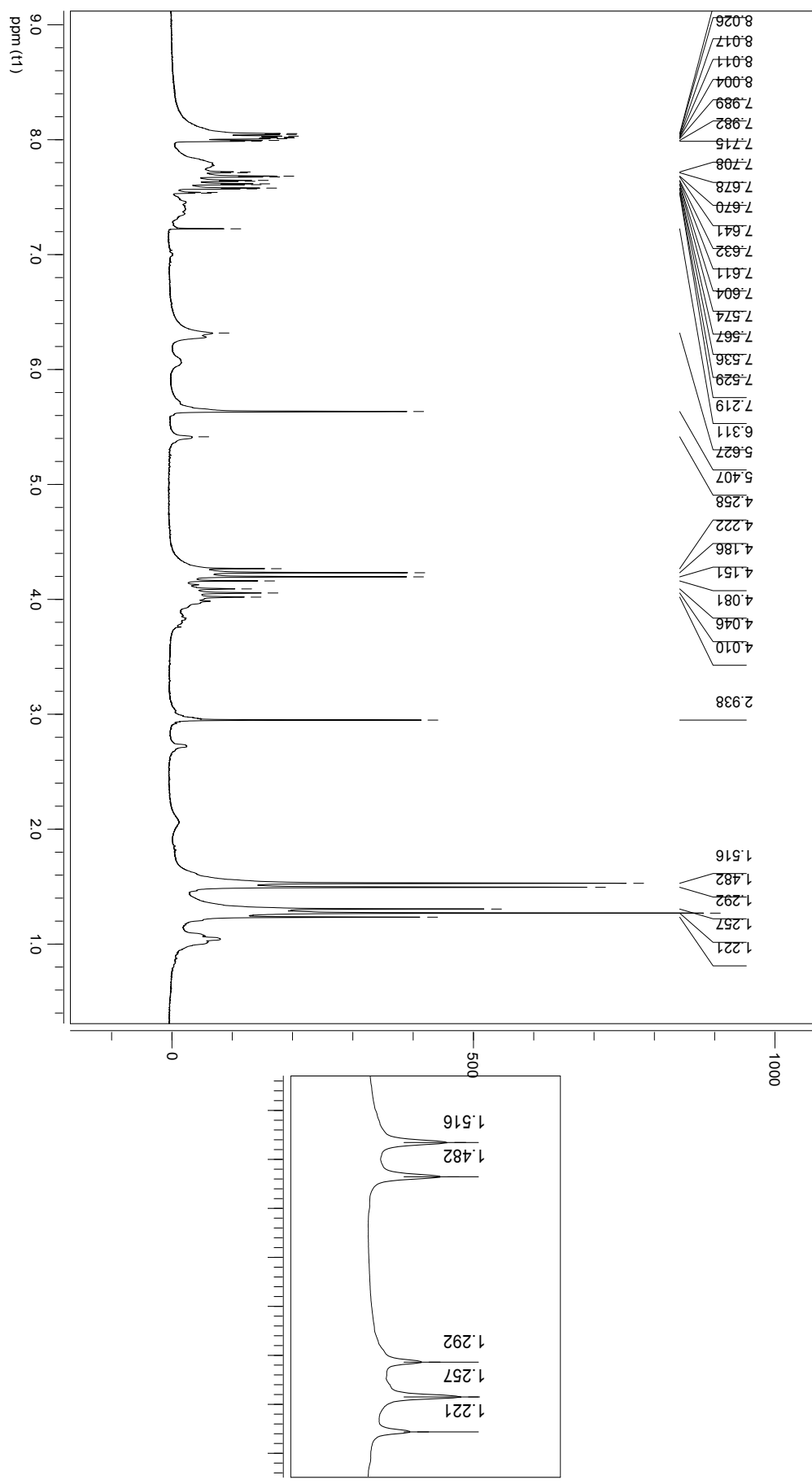
Figure S20. ^1H NMR (200 MHz, CDCl_3) and expansion of **9**.

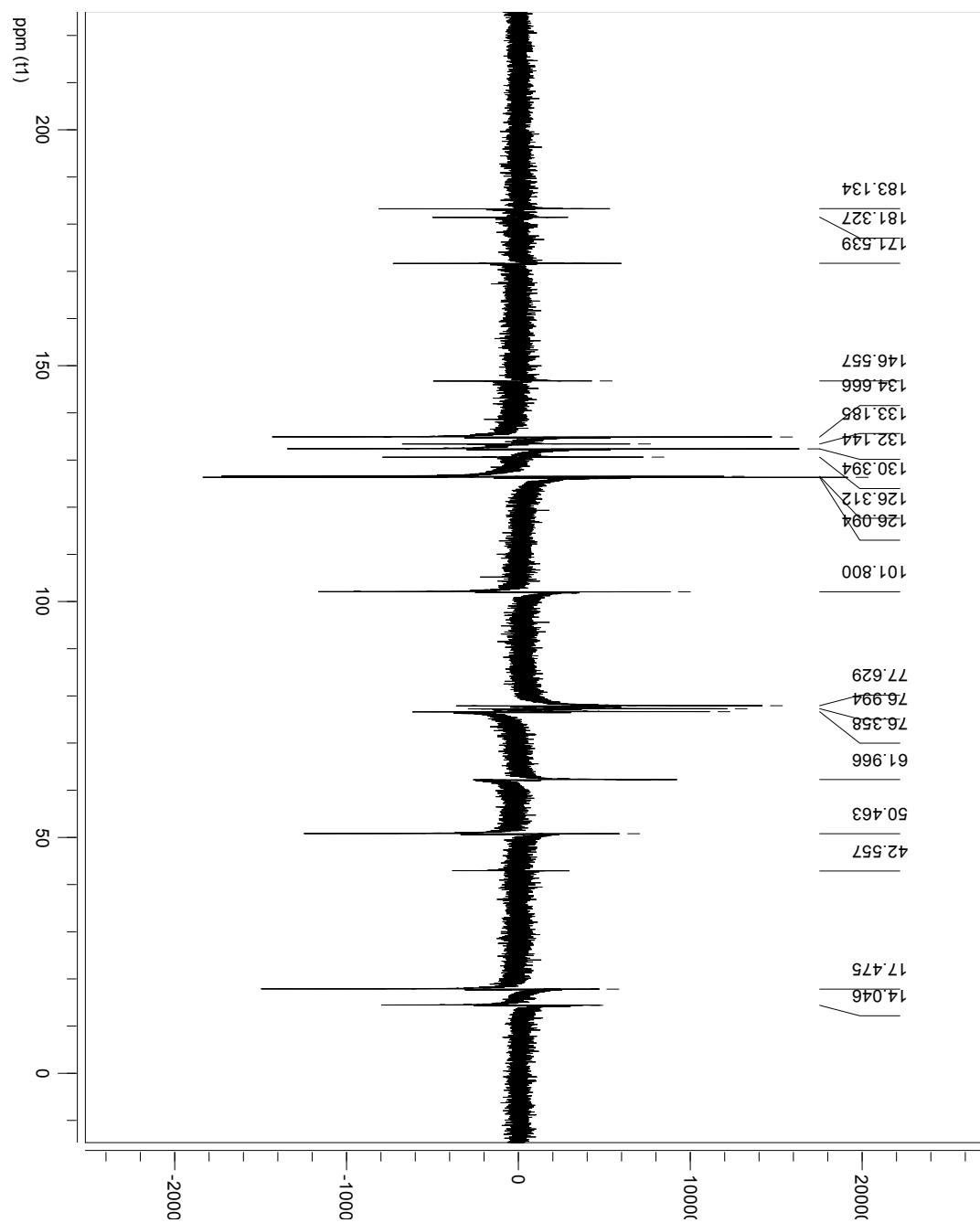
Figure S21. ^{13}C NMR-APT (δ , CDCl_3 , 50 MHz) of **9**.

Figure S22. IR (ATR) of 8.

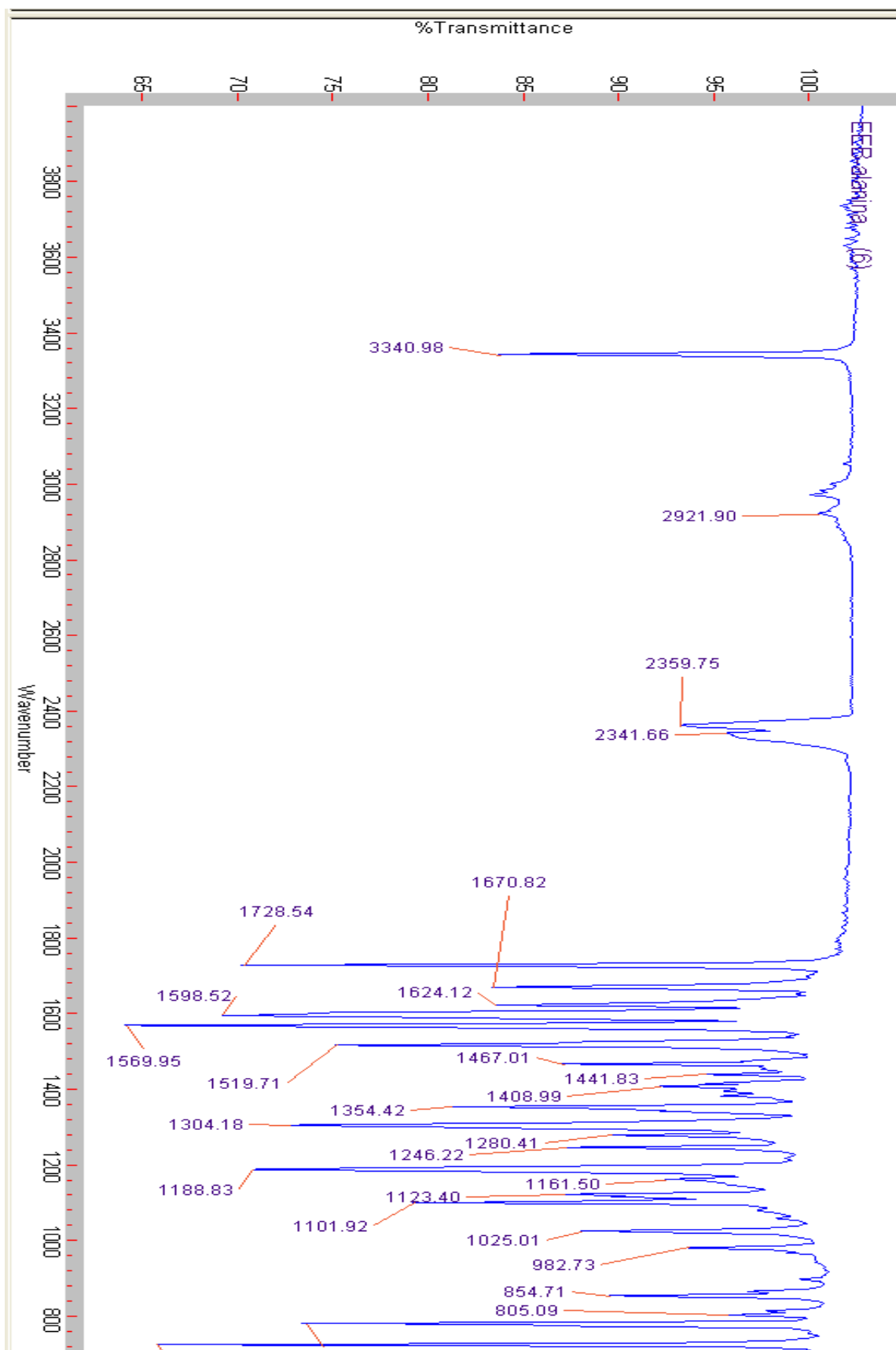


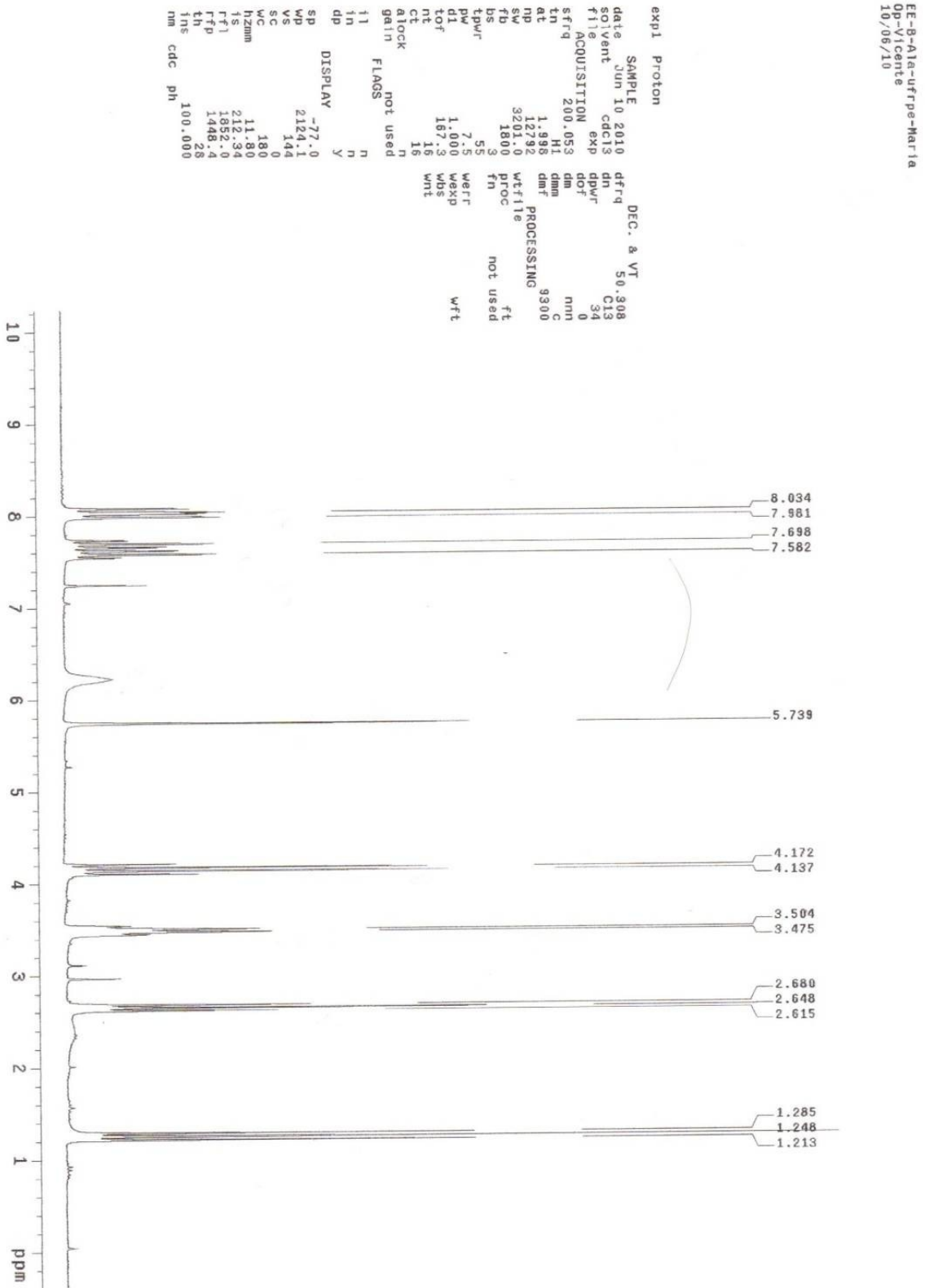
Figure S23. ^1H NMR (δ , CDCl_3 , 200 MHz) of 8.

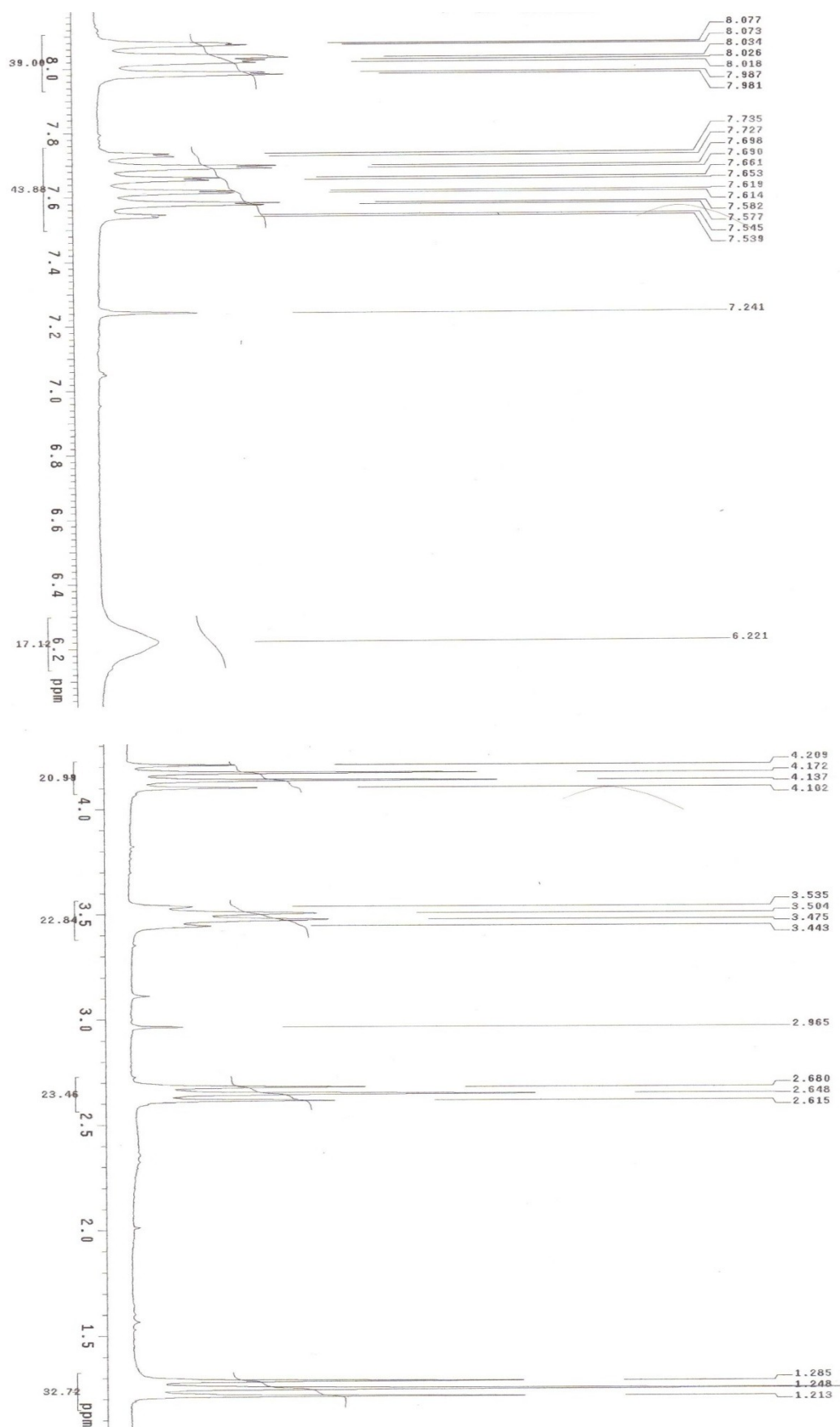
Figure S24. ^1H NMR (δ , CDCl_3 , 200 MHz) expansions of **8**

Figure S25. ¹³C NMR (APT δ, CDCl₃, 50 MHz) of **8**.

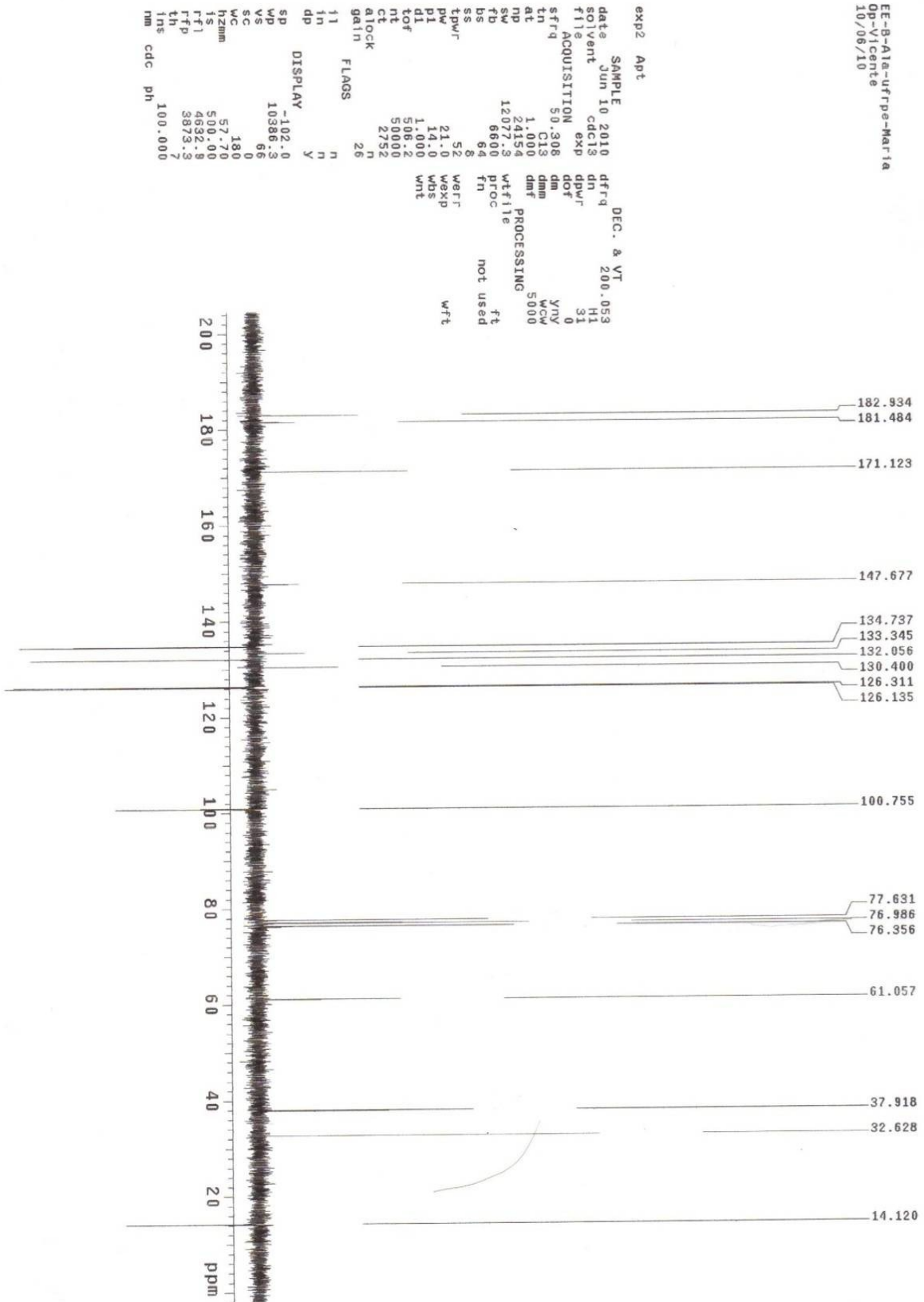


Figure S26. IR (ATR) of 10.

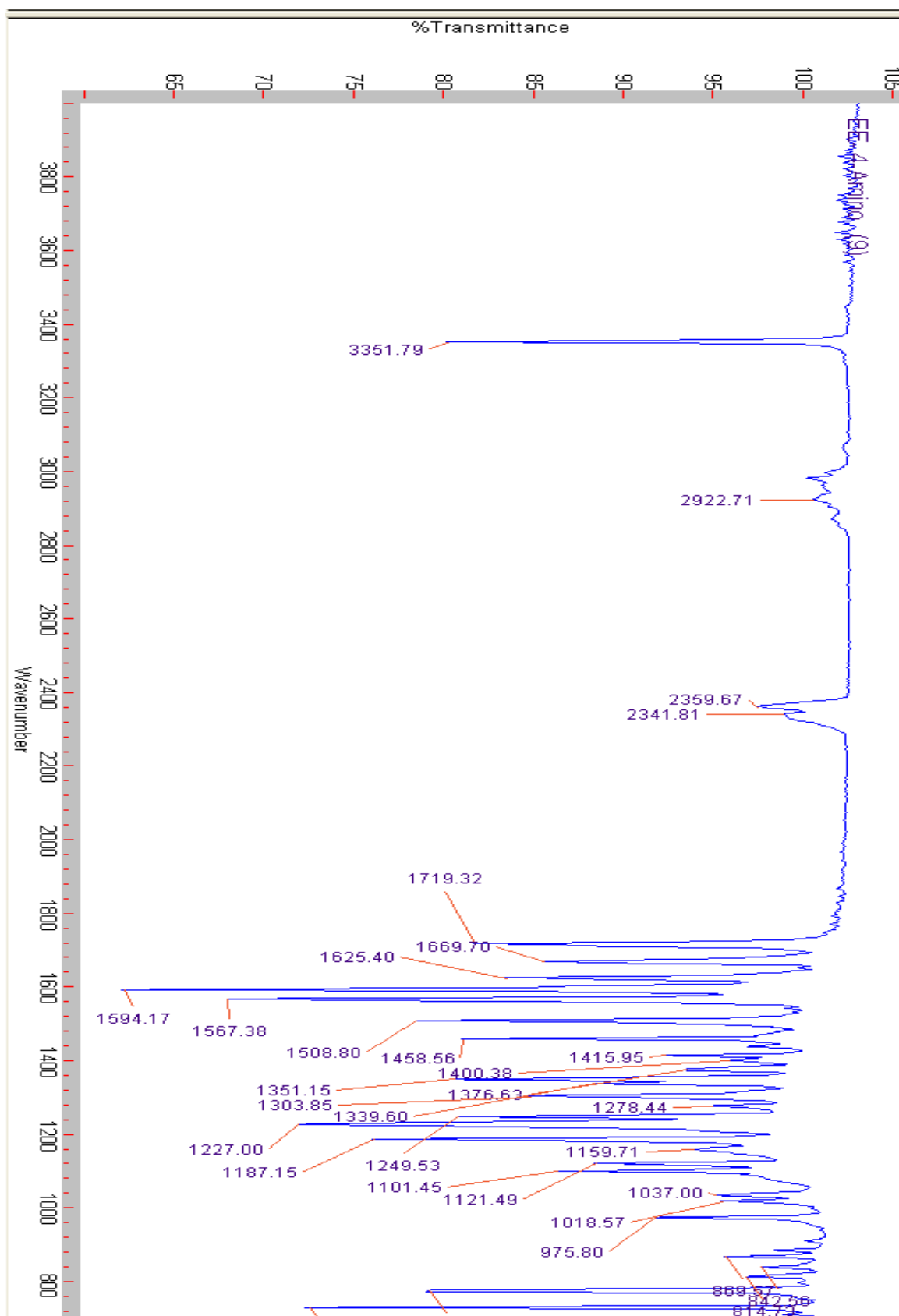


Figure S27. Cont.

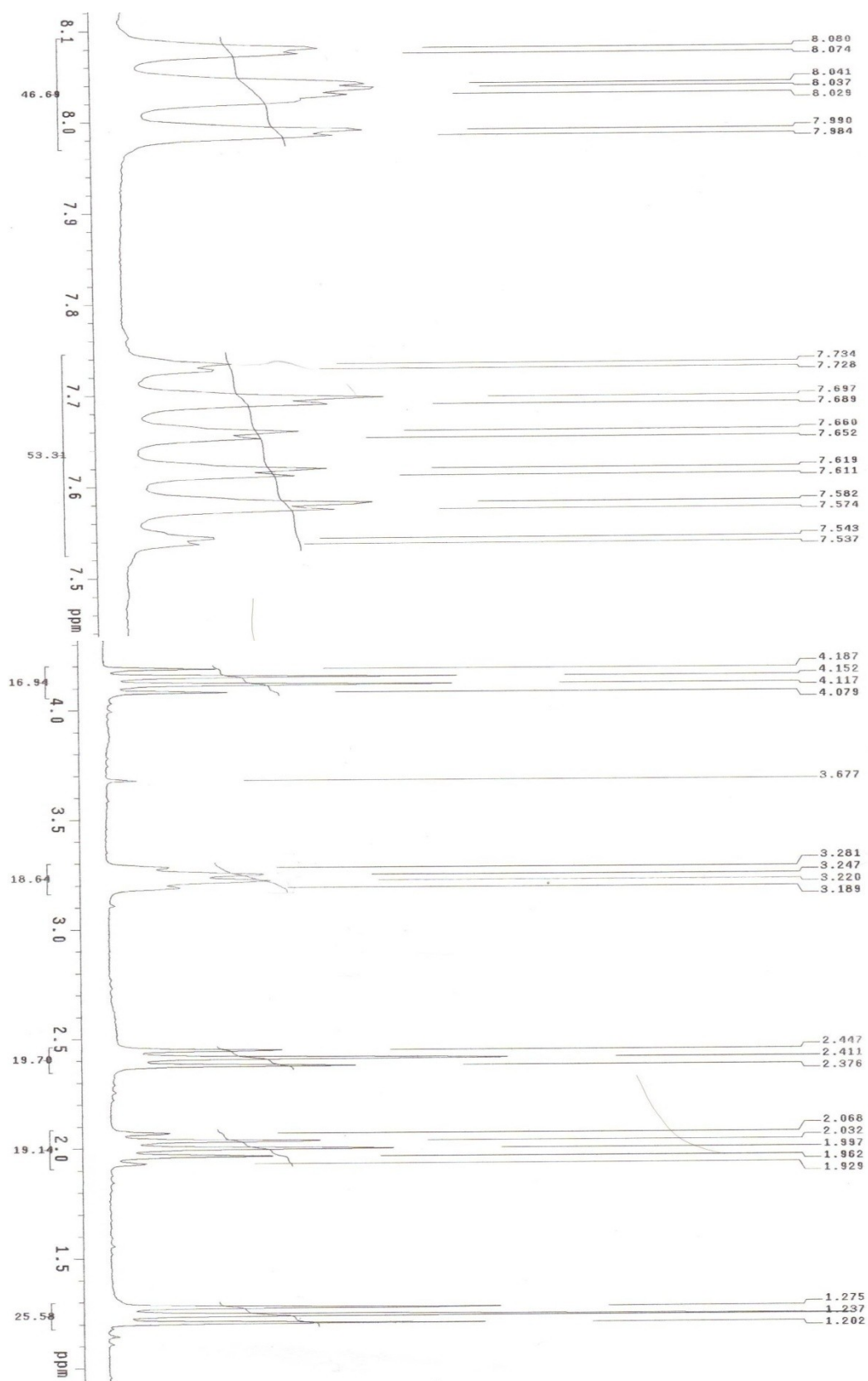


Figure S29. IR (ATR) of 11.

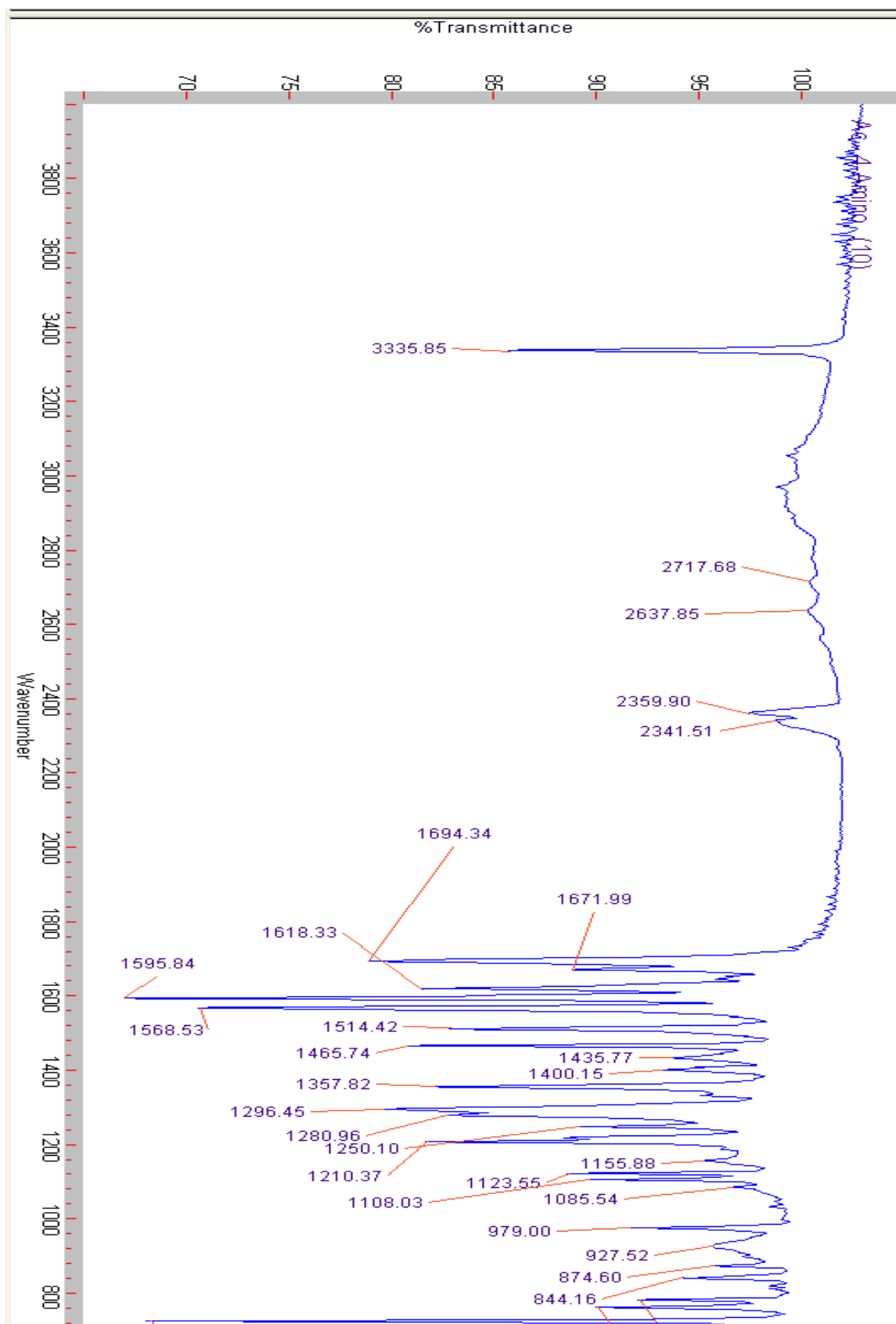


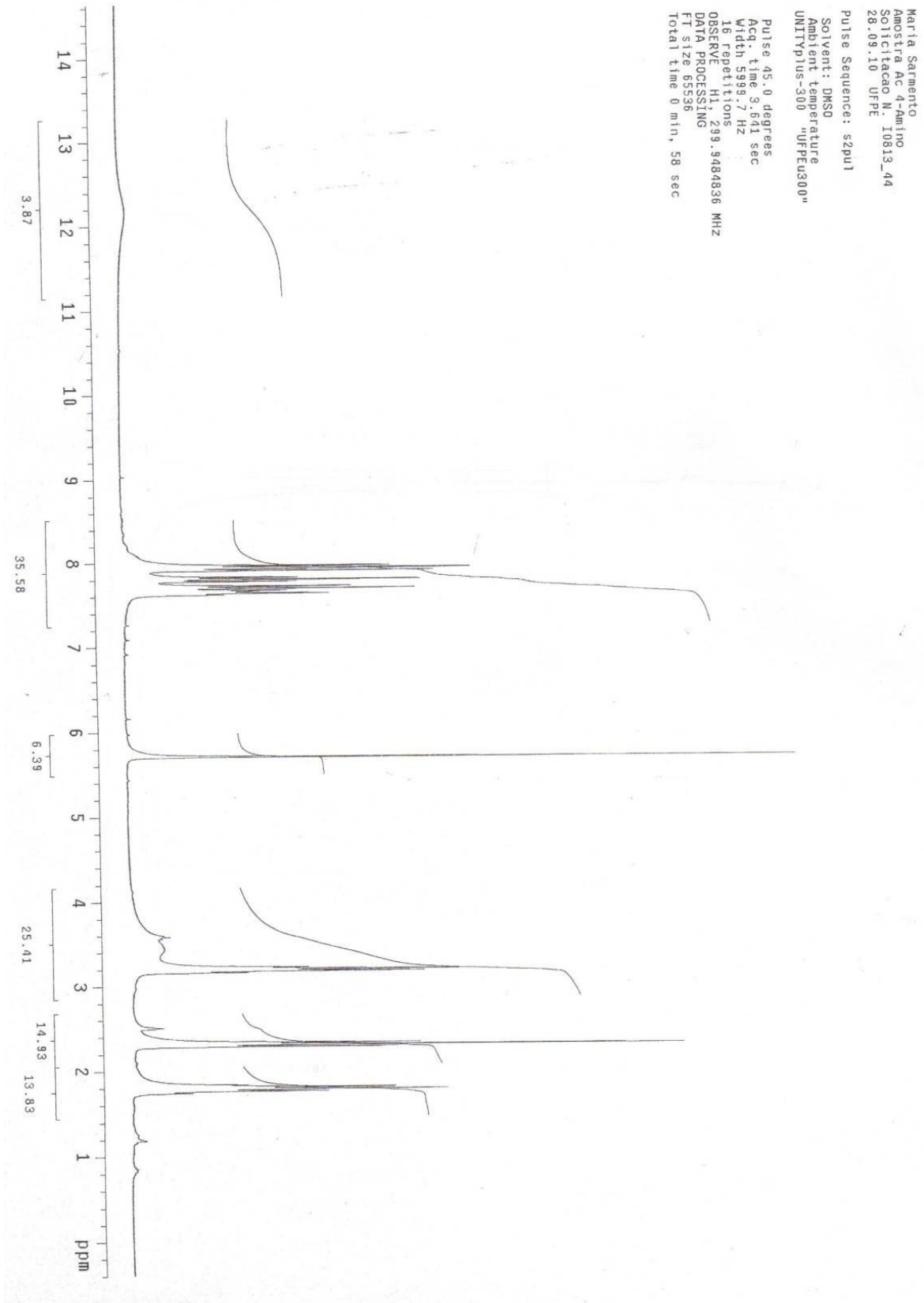
Figure S30. ^1H NMR (DMSO- d_6 , 300 MHz) and expansions of 11.

Figure S30. Cont.

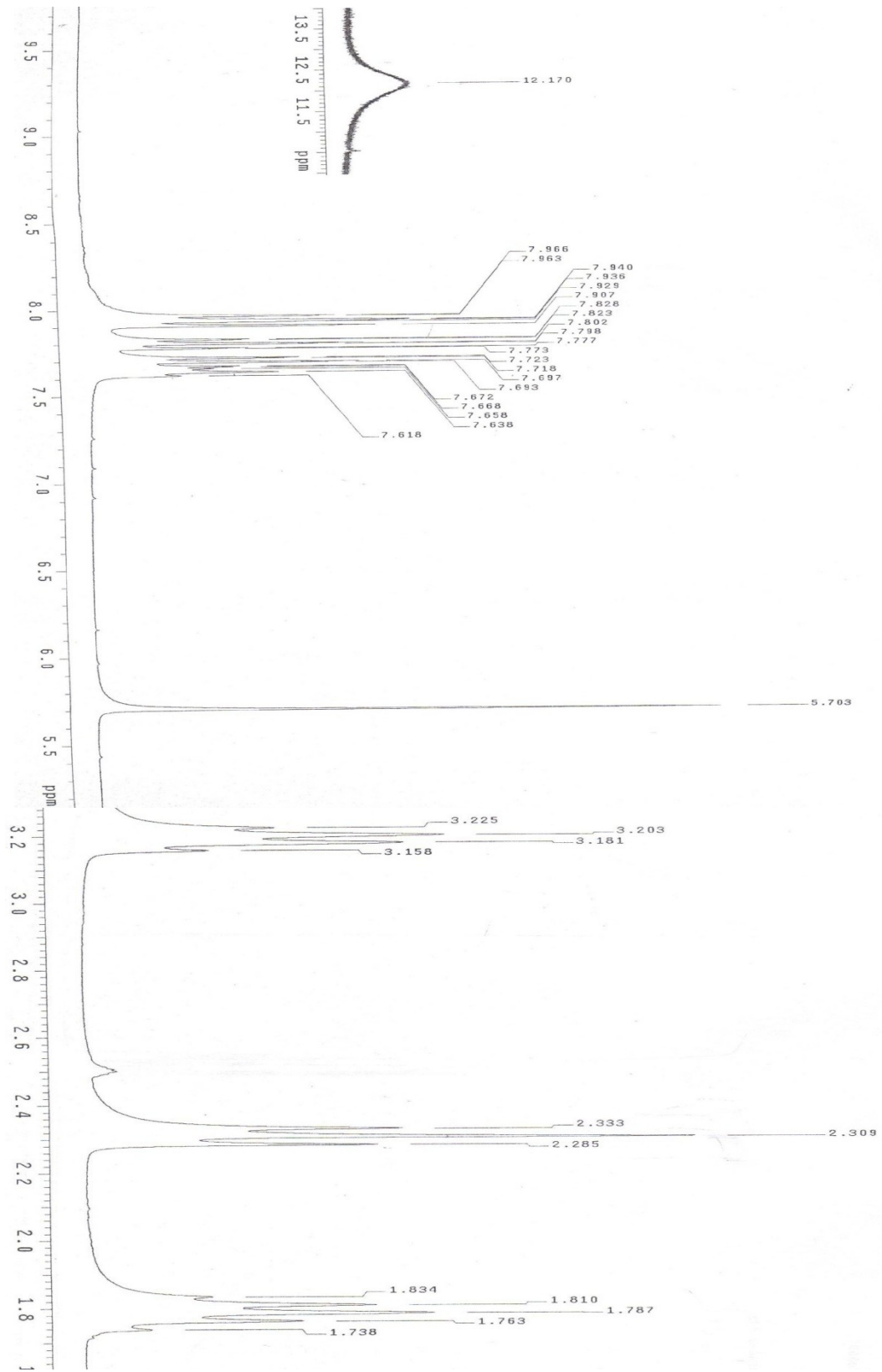
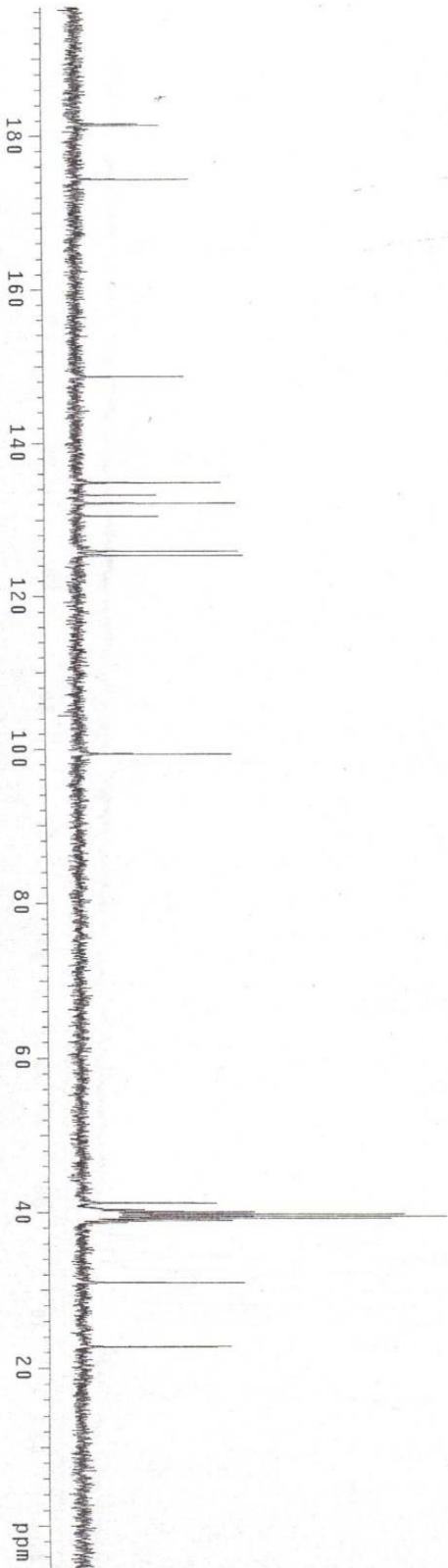


Figure S31. ^{13}C NMR (DMSO- d_6 , 75 MHz) and expansions of **11**.

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Pulse Sequence: s2pul1
Solvent: DMSO
Ambient temperature
UNITYplus-300 "ujfpeu300"

Pulse 30.0 degrees
Acq. time 1.000 sec
Width 18639.0 Hz
418 repetitions
OBSERVE C13, 75.4221376 MHz
DECOUPLE H1, 299.9499835 MHz
Power 36 db
on during acquisition
off during delay
WALTZ-16 modulated
DATA PROCESSING
Line broadening 1.0 Hz
FT size 65536
Total time 34 min, 30 sec

Figure S31. *Cont.*