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APPENDIX

Solvent and Chemical used

acetone
ammonium hydroxide
benzene
chloroform
ether
ethyl acetate
95% ethanol
gracial acetic acid
methanol
sodium sulphate anhydrous

Key to Figures

EL - crude alkaloids of *Evodia lepta* Merr.
EL-1 - edulinine
EL-2 - ribalinine
EL-3 - isolated compound, tentative identified as isoribalinine
EG - crude alkaloids of *Evodia gracilis* Kurz.
EG-1 - kokusaginine
EG-2 - skimmianine

Solvent systems

a) 10% ethanol in chloroform
b) 5% methanol in ethyl acetate
c) ethyl acetate : acetone 1:1
d) benzene : ethyl acetate 1:1
e) 5% acetone in chloroform
f) 5% ethanol in benzene

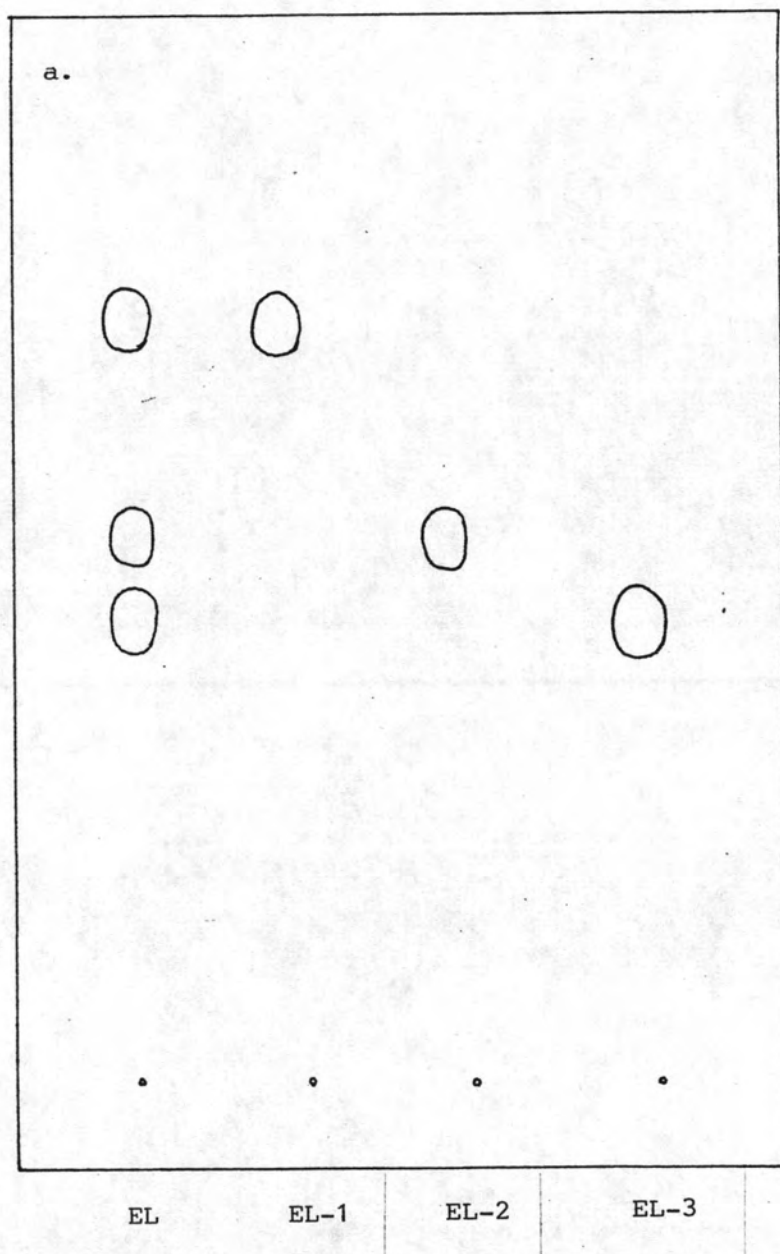


Figure 1. Thin layer chromatogram of alkaloids from the leaves of *Evodia lepta* Merr.

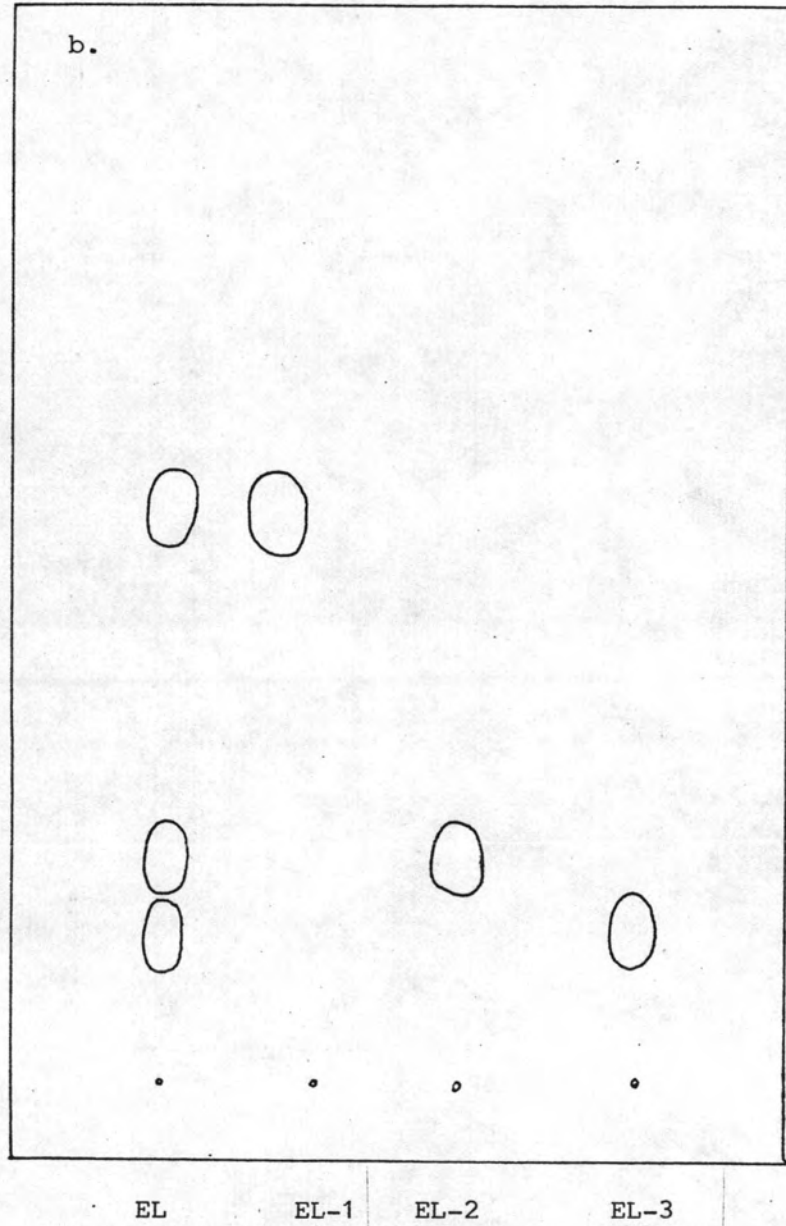


Figure 2. Thin layer chromatogram of alkaloids from the leaves of *Evodia lepta* Merr.

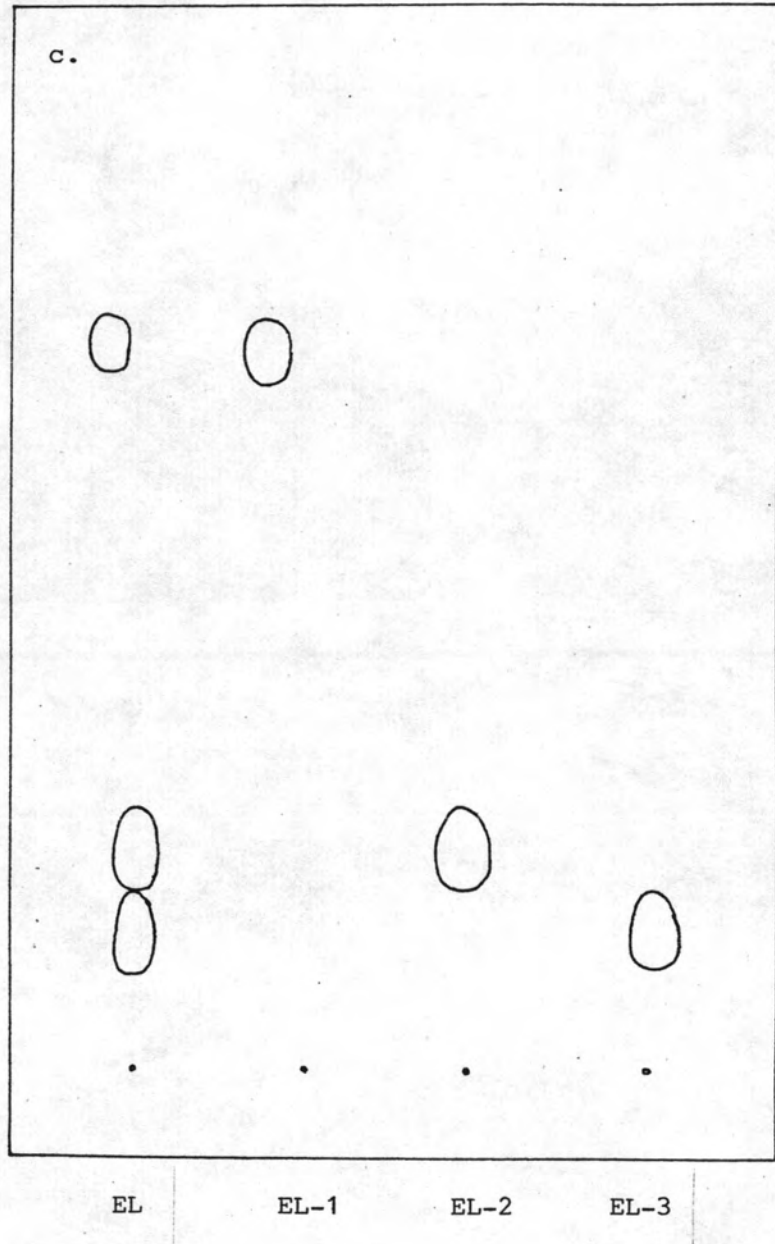


Figure 3. Thin layer chromatogram of alkaloids from the leaves of *Evodia lepta* Merr.

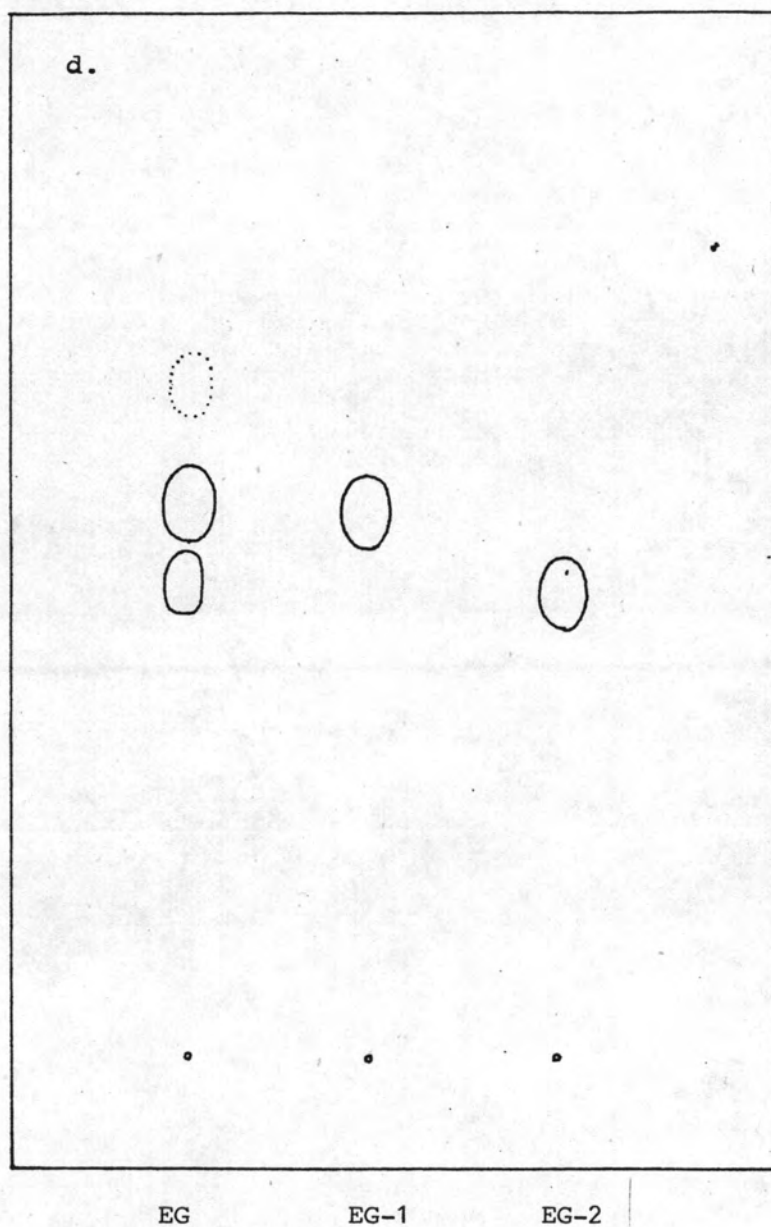


Figure 4. Thin layer chromatogram of alkaloids from the leaves of *Evodia gracilis* Kurz.

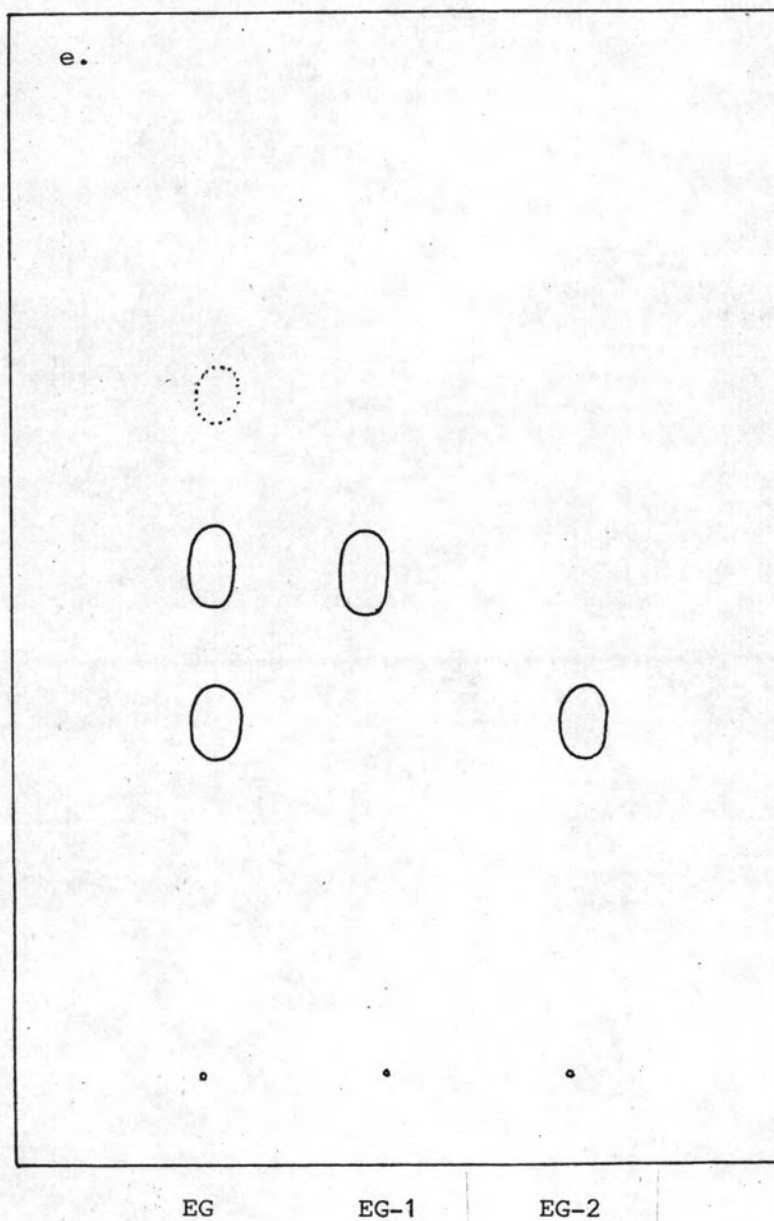


Figure 5. Thin layer chromatogram of alkaloids from leaves of *Evodia gracilis* Kurz.

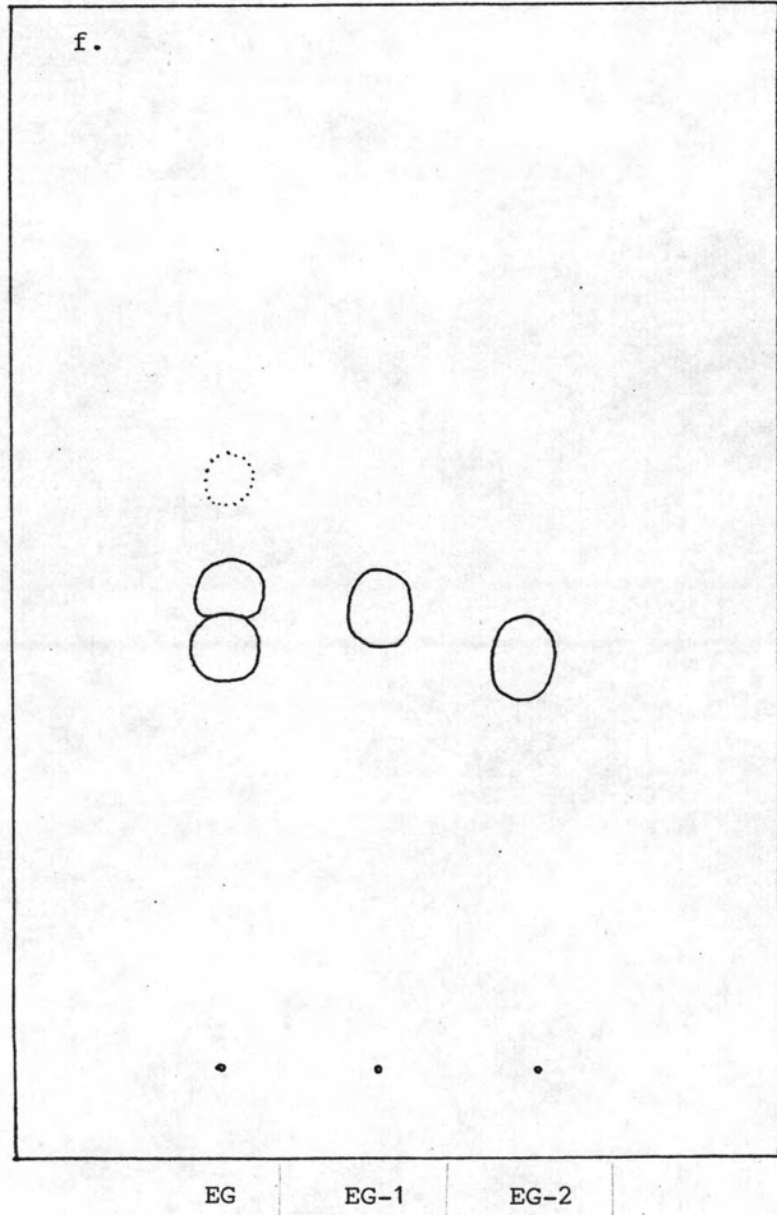


Figure 6. Thin layer chromatogram of alkaloids from the leaves of *Evodia gracilis* Kurz.

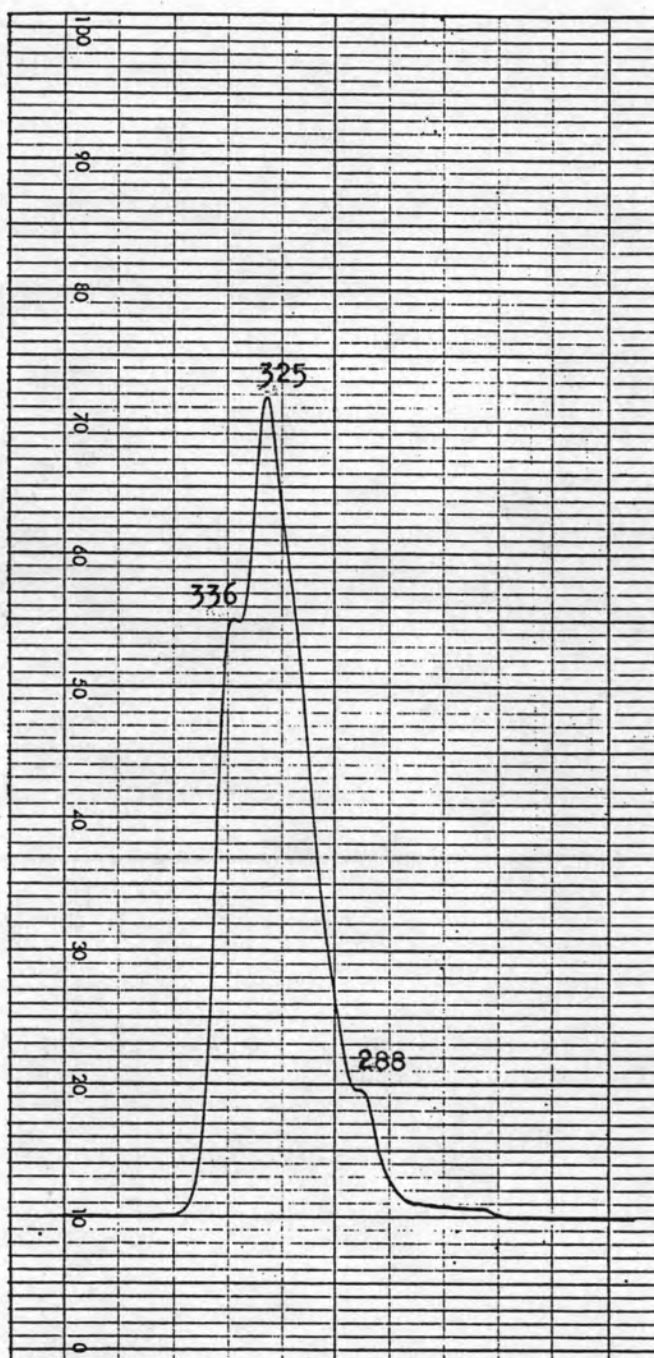


Figure 7. Ultraviolet absorption spectrum of EL-1 in EtOH.

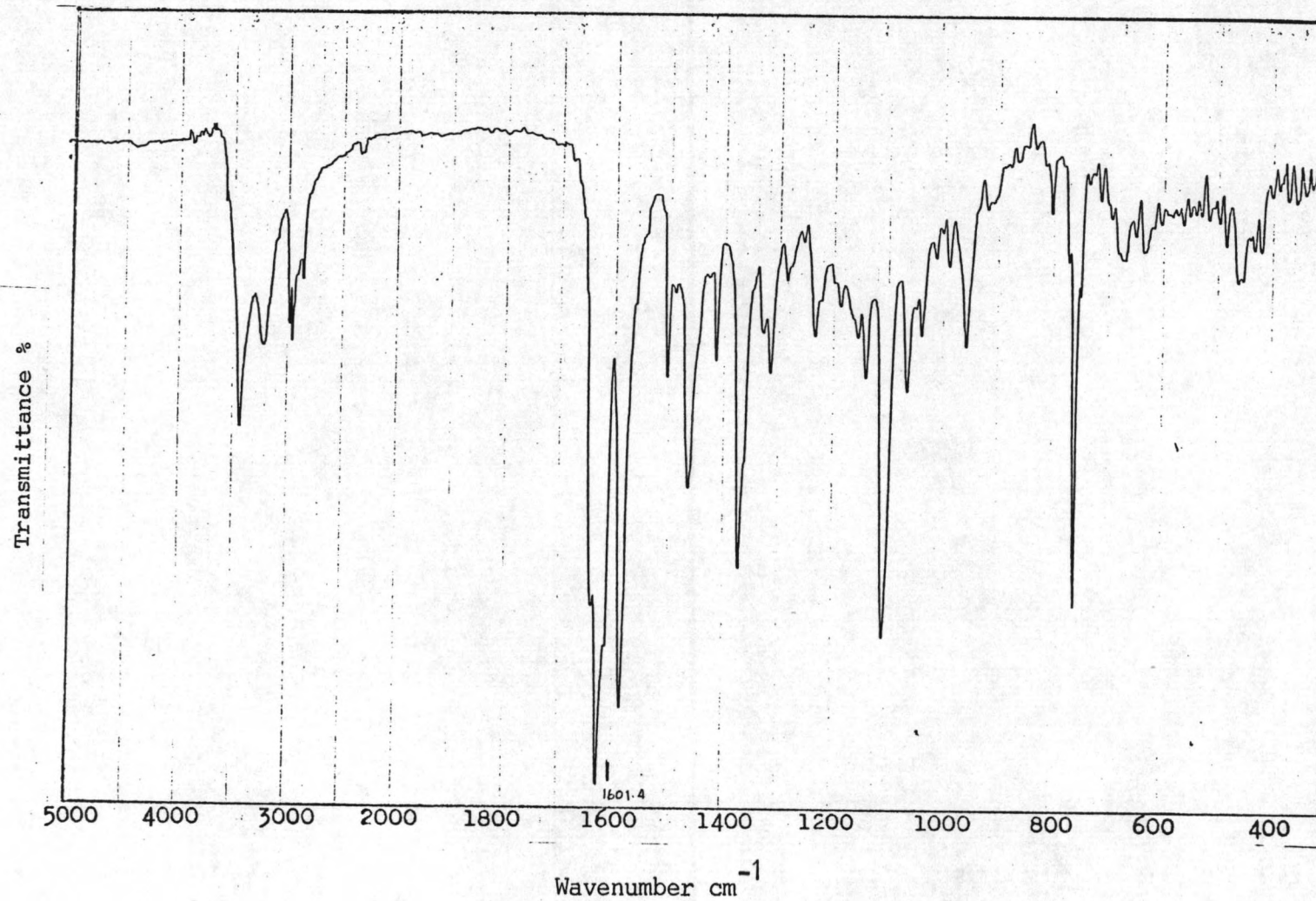


Figure 8. Infrared absorption spectrum of EL-1 in KBr disc.

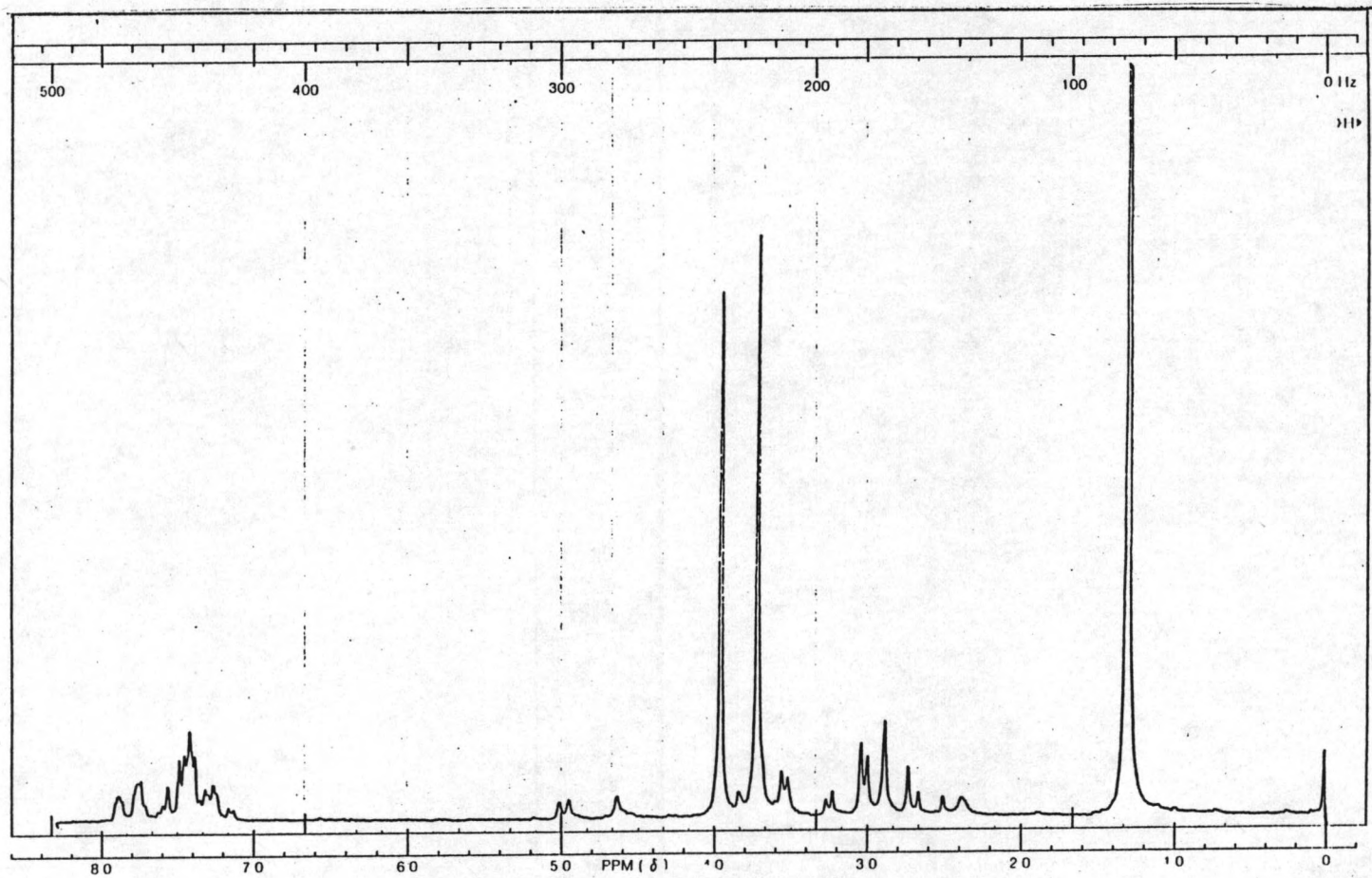


Figure 9. Nuclear magnetic resonance spectrum (60 MHz) of EL-1 in CDCl₃.

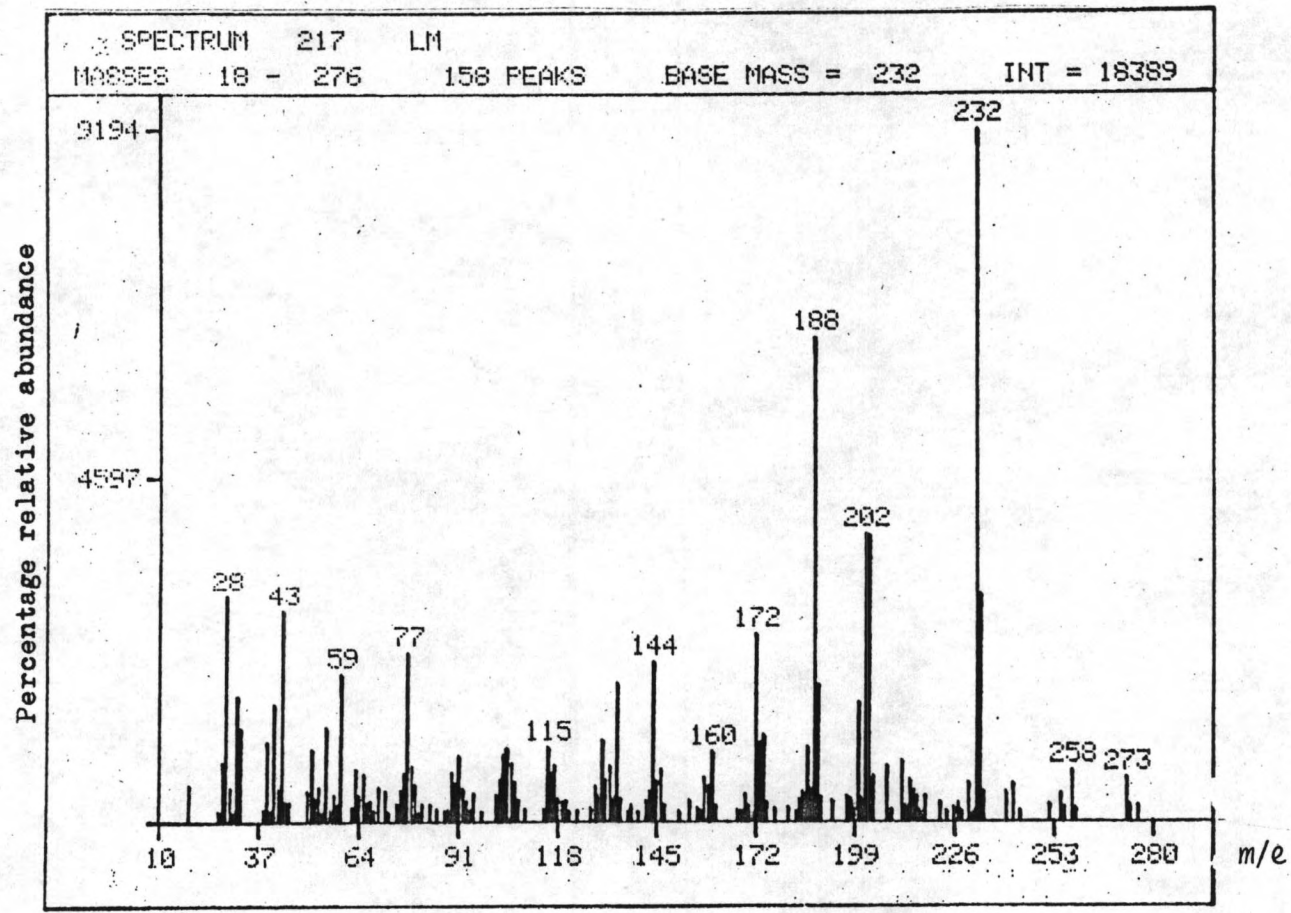


Figure 10. Mass spectrum of EL-1.

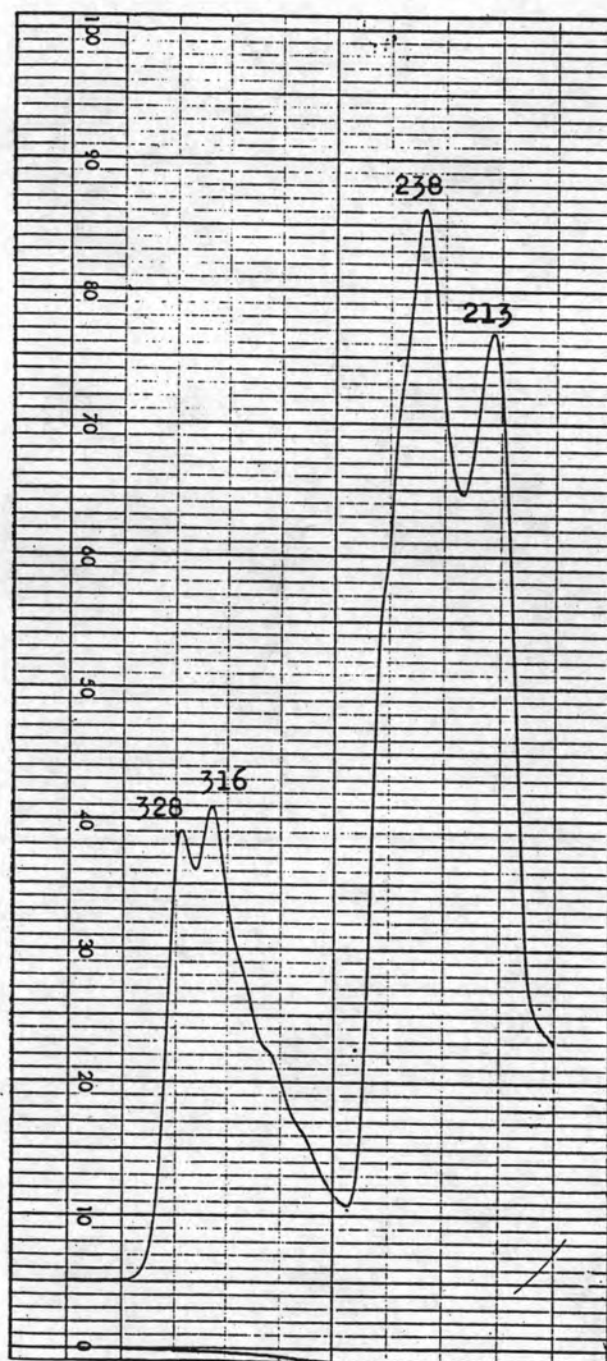


Figure 11. Ultraviolet absorption spectrum of EL-2 in EtOH.

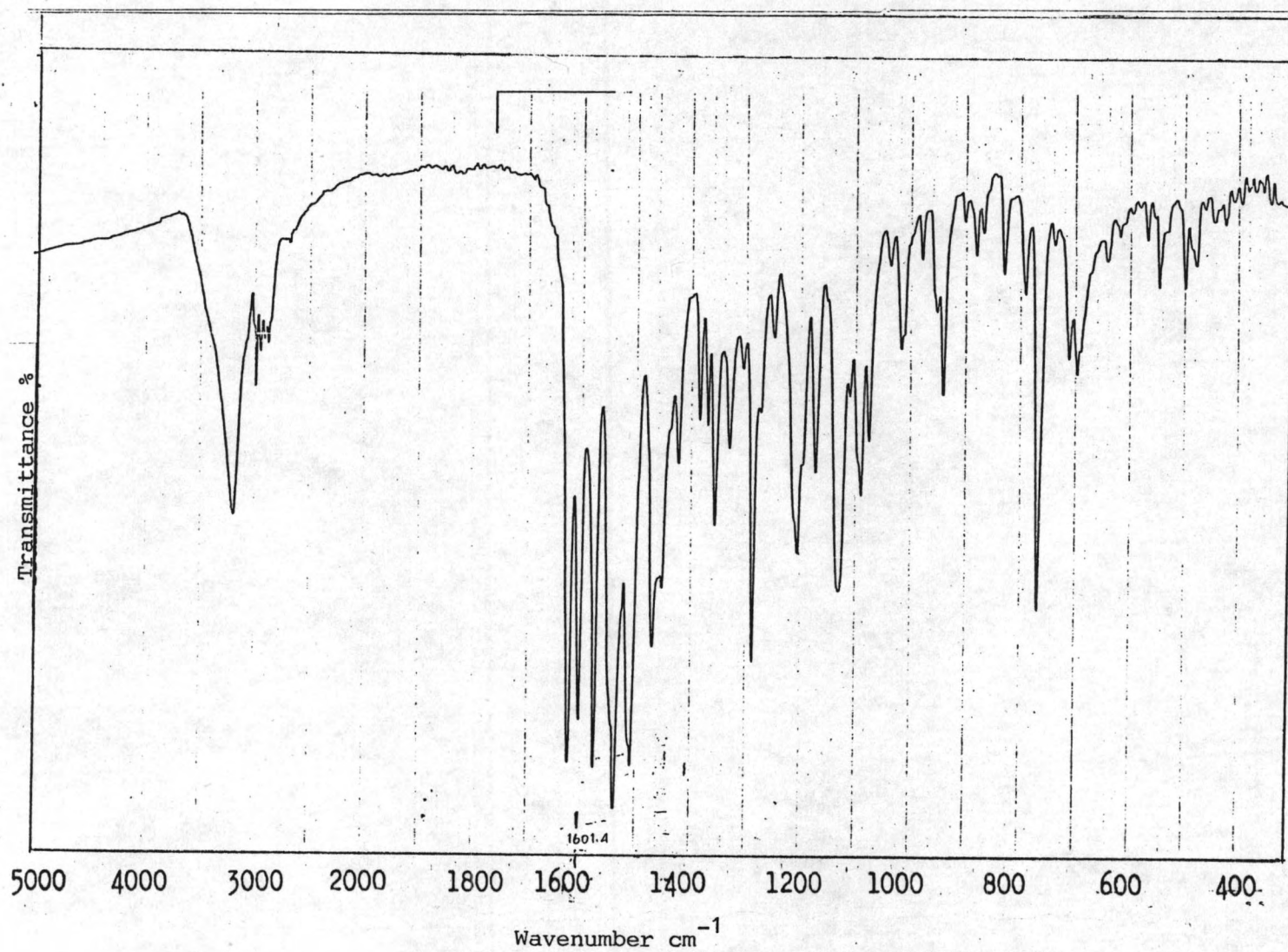


Figure 12. Infrared absorption spectrum of EL-2 in KBr disc.

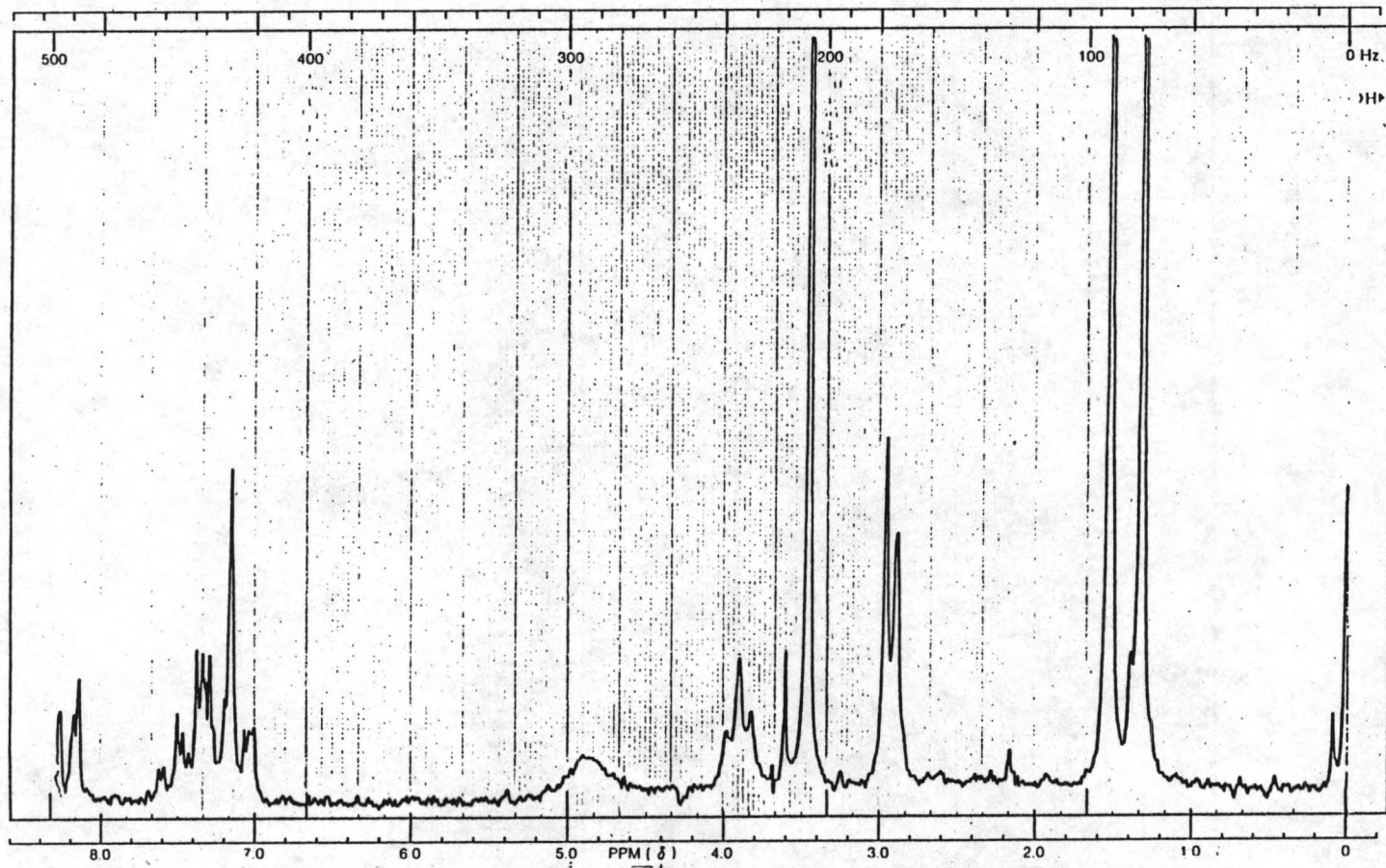


Figure 13. Nuclear magnetic resonance spectrum (60 MHz) of EL-2 in CDCl₃.

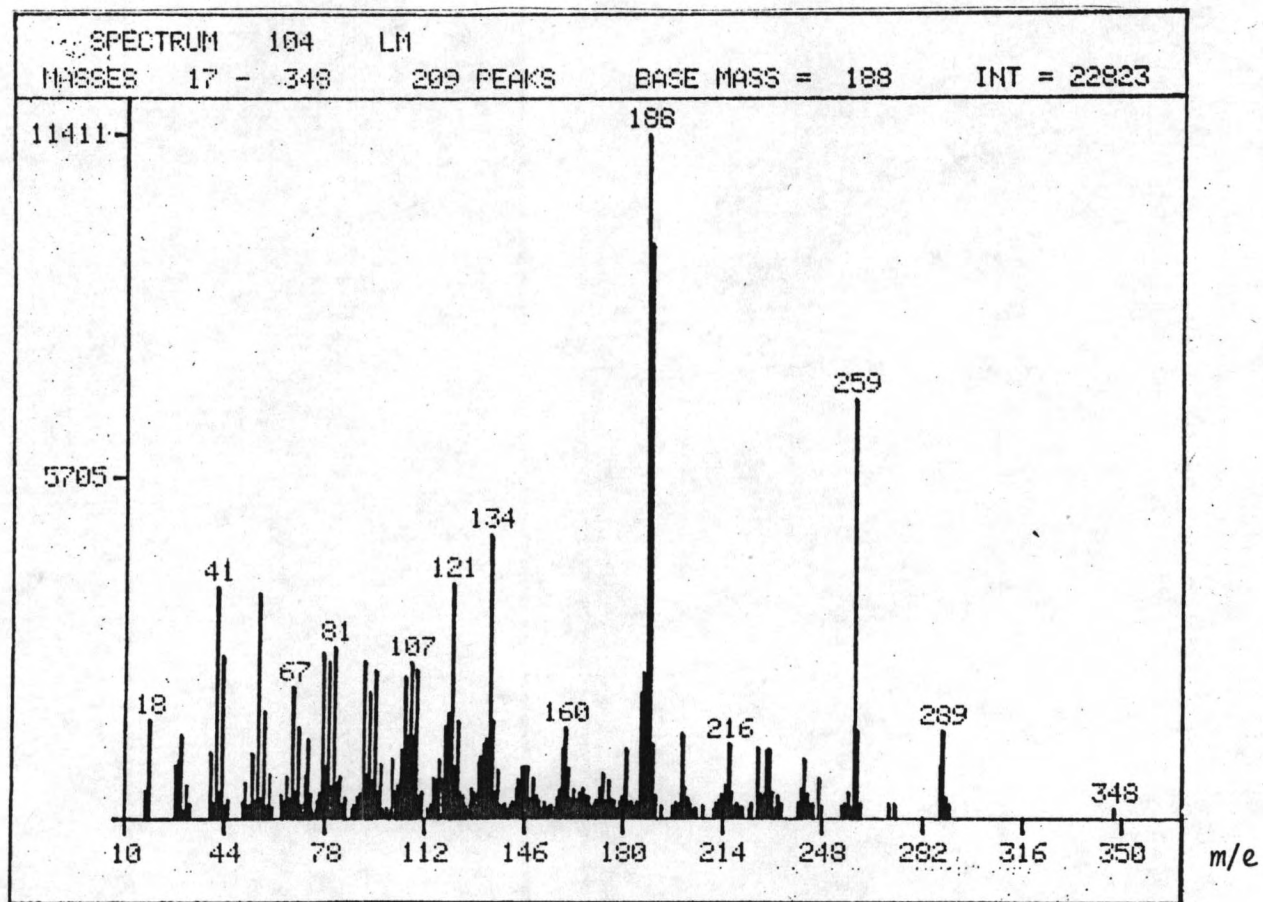


Figure 14. Mass spectrum of EL-2.

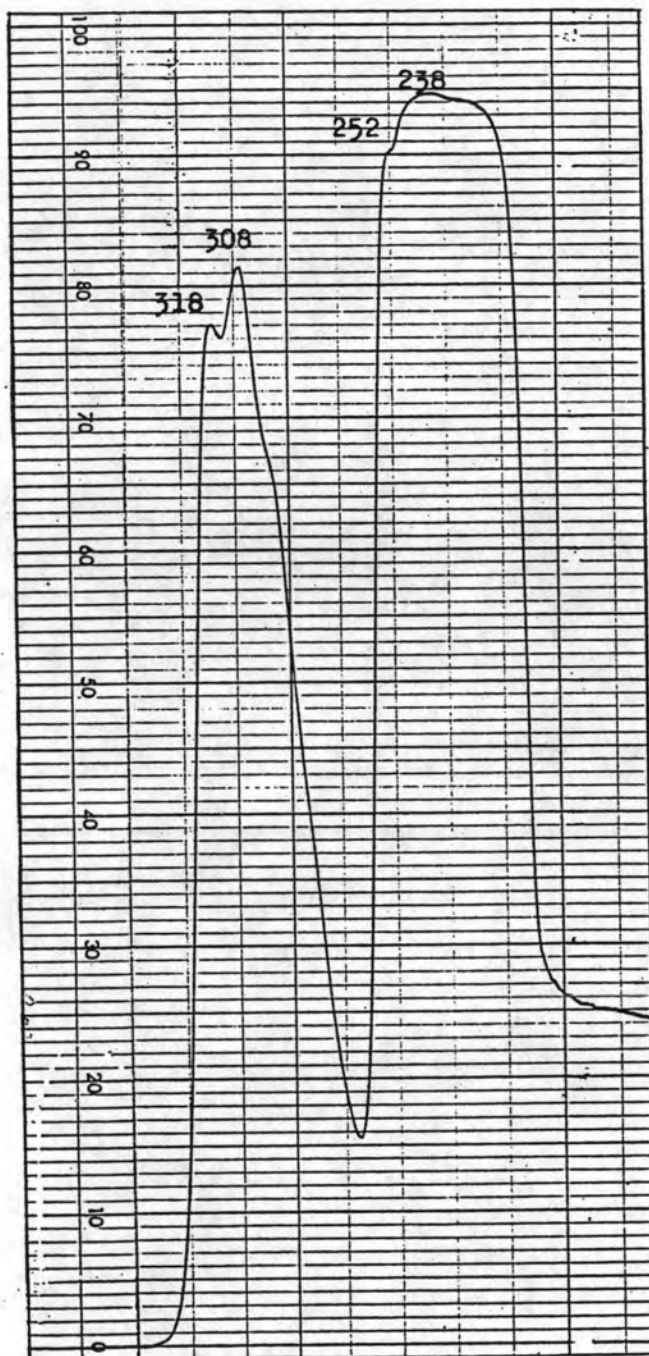


Figure 15. Ultraviolet absorption spectrum of EL-3
in EtOH.

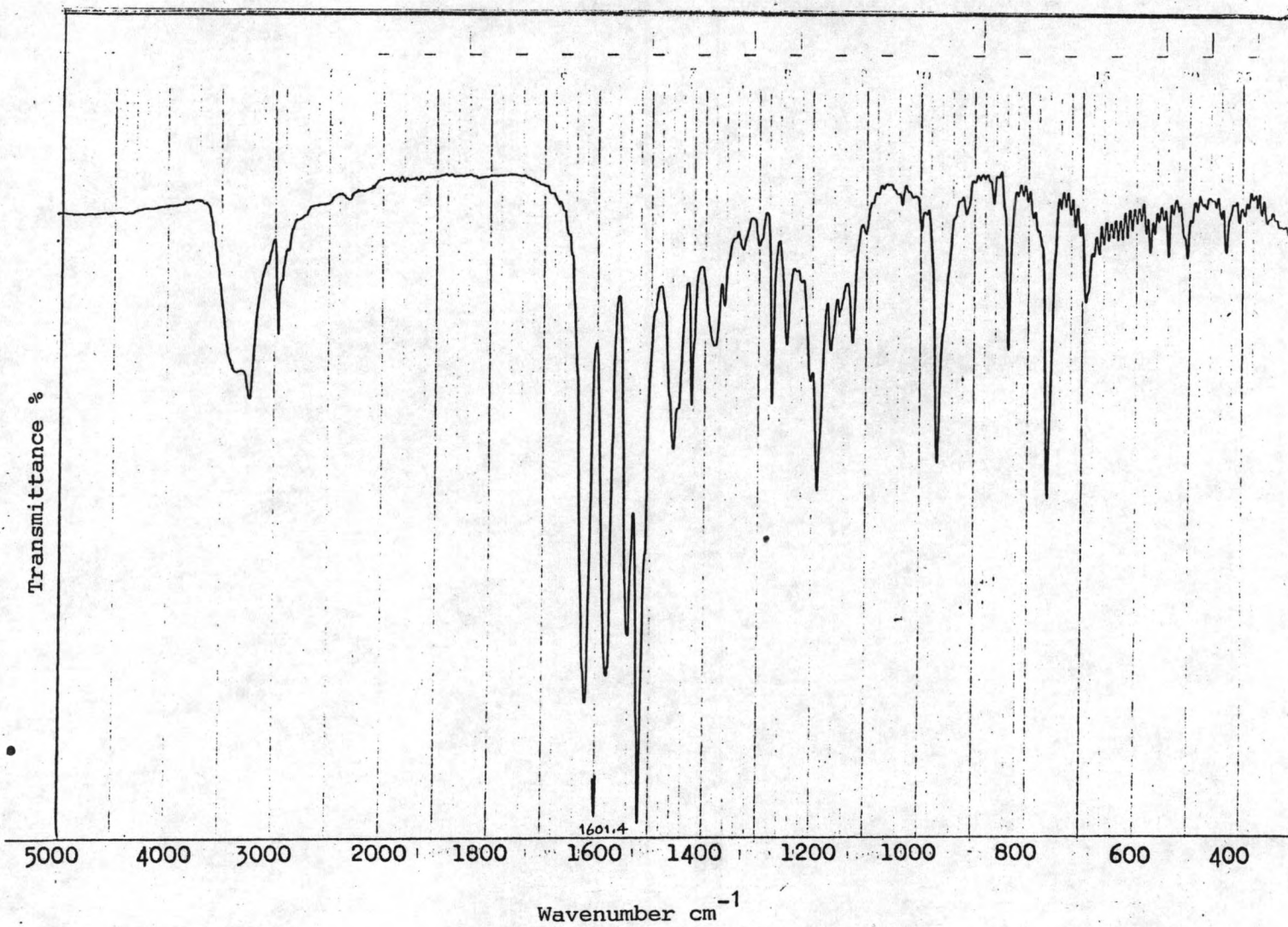


Figure 16. Infrared absorption spectrum of EL-3 in KBr disc.

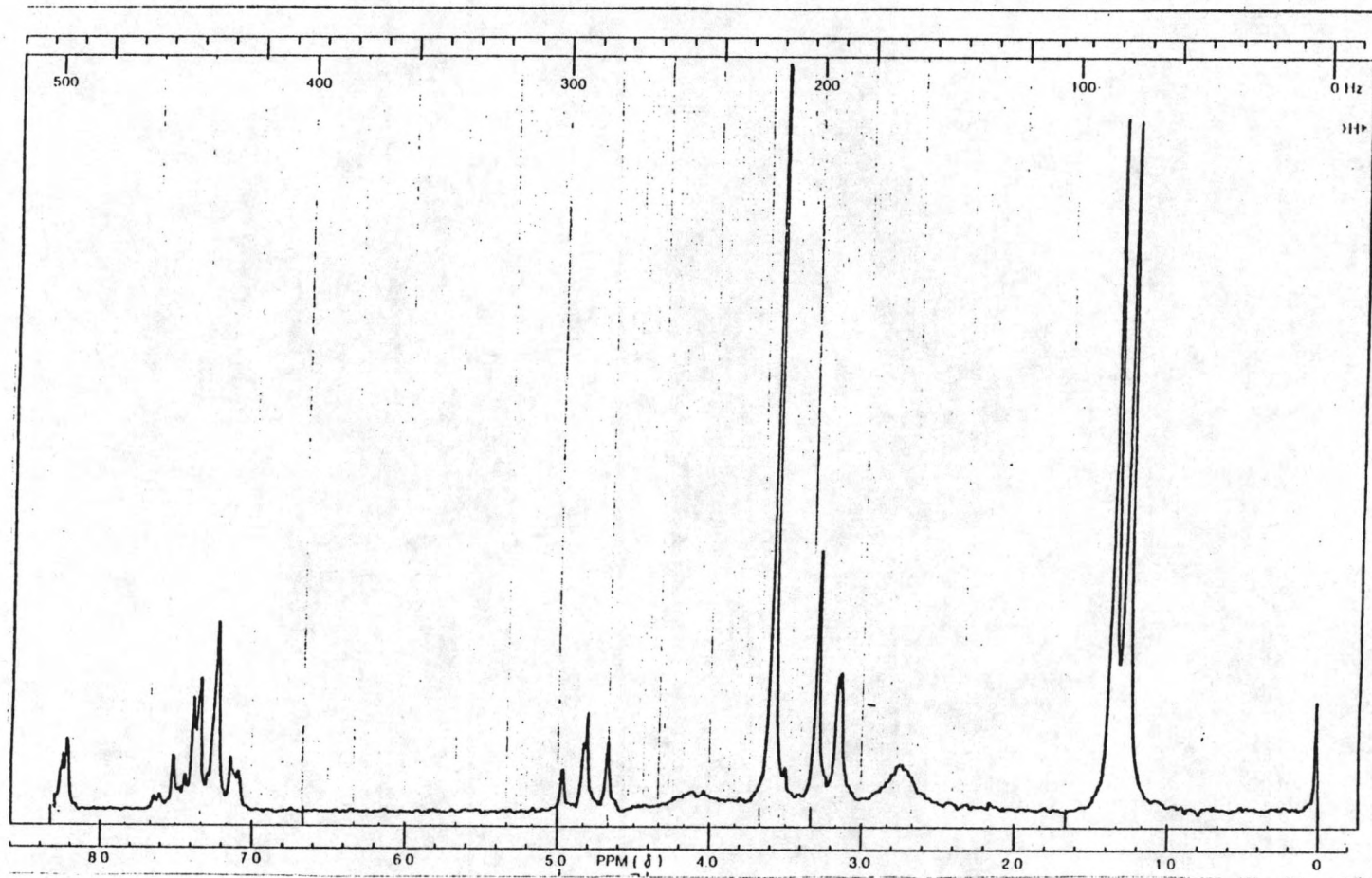


Figure 17. Nuclear magnetic resonance spectrum (60 MHz) of EL-3 in CDCl₃.

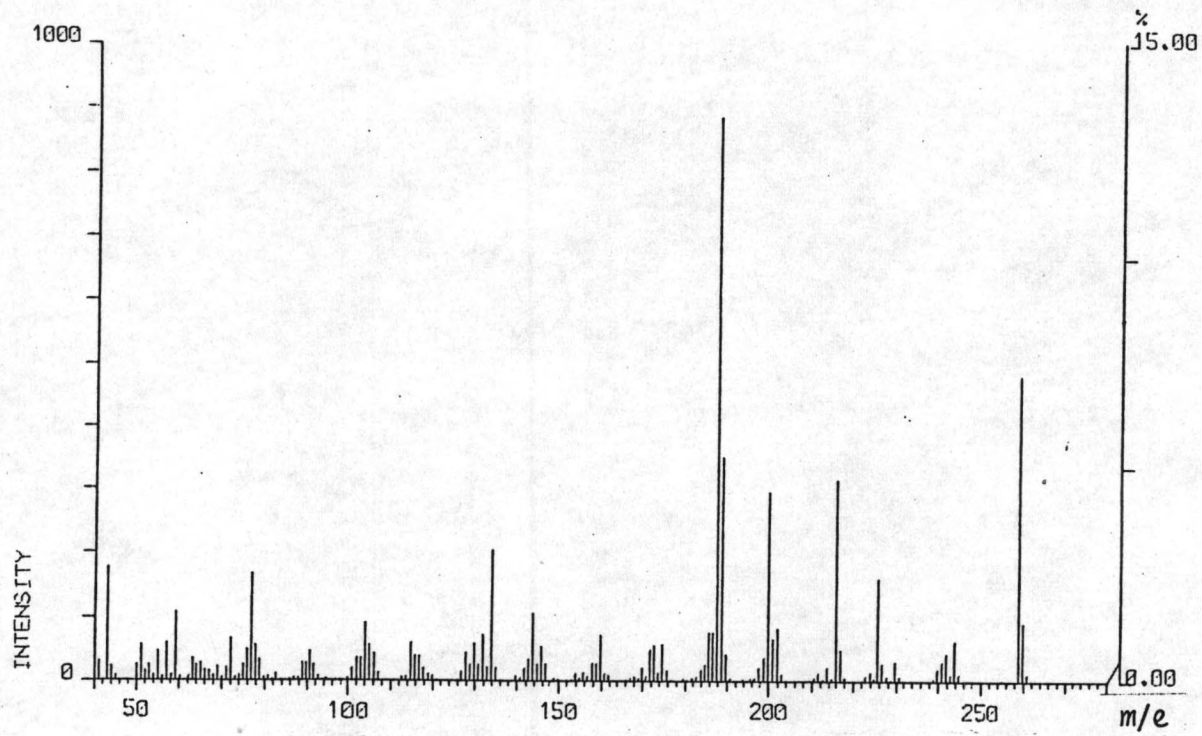


Figure 18. Mass spectrum of EL-3.

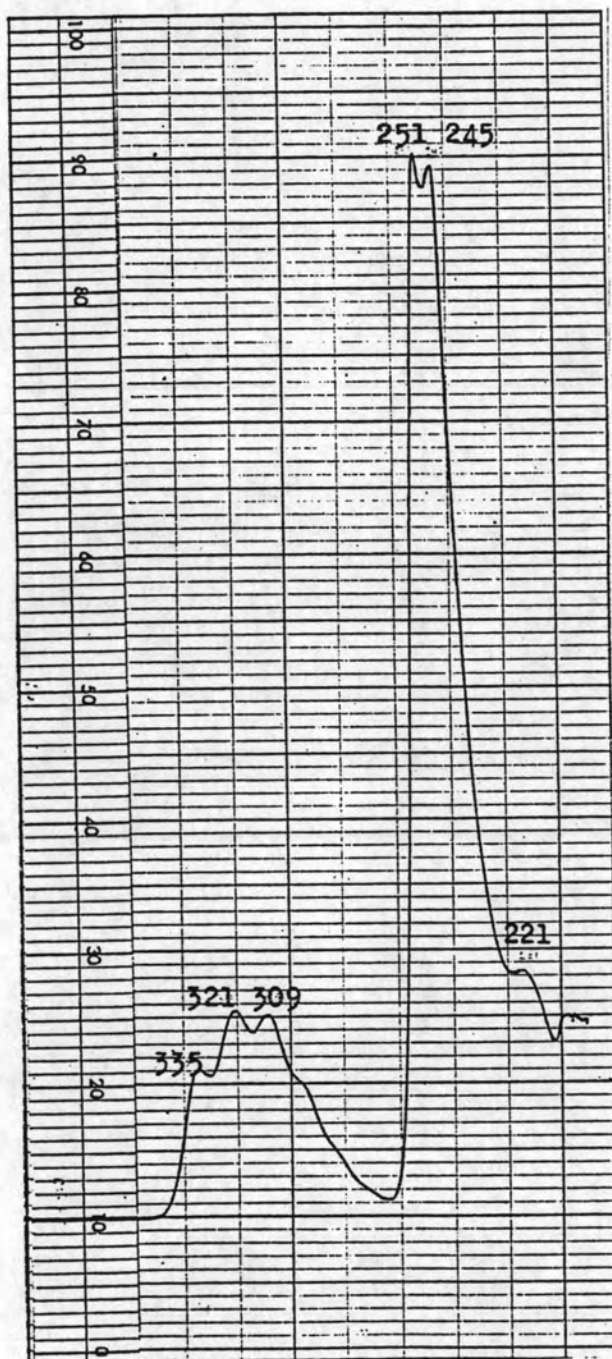


Figure 19. Ultraviolet absorption spectrum of EG-1 in EtOH.

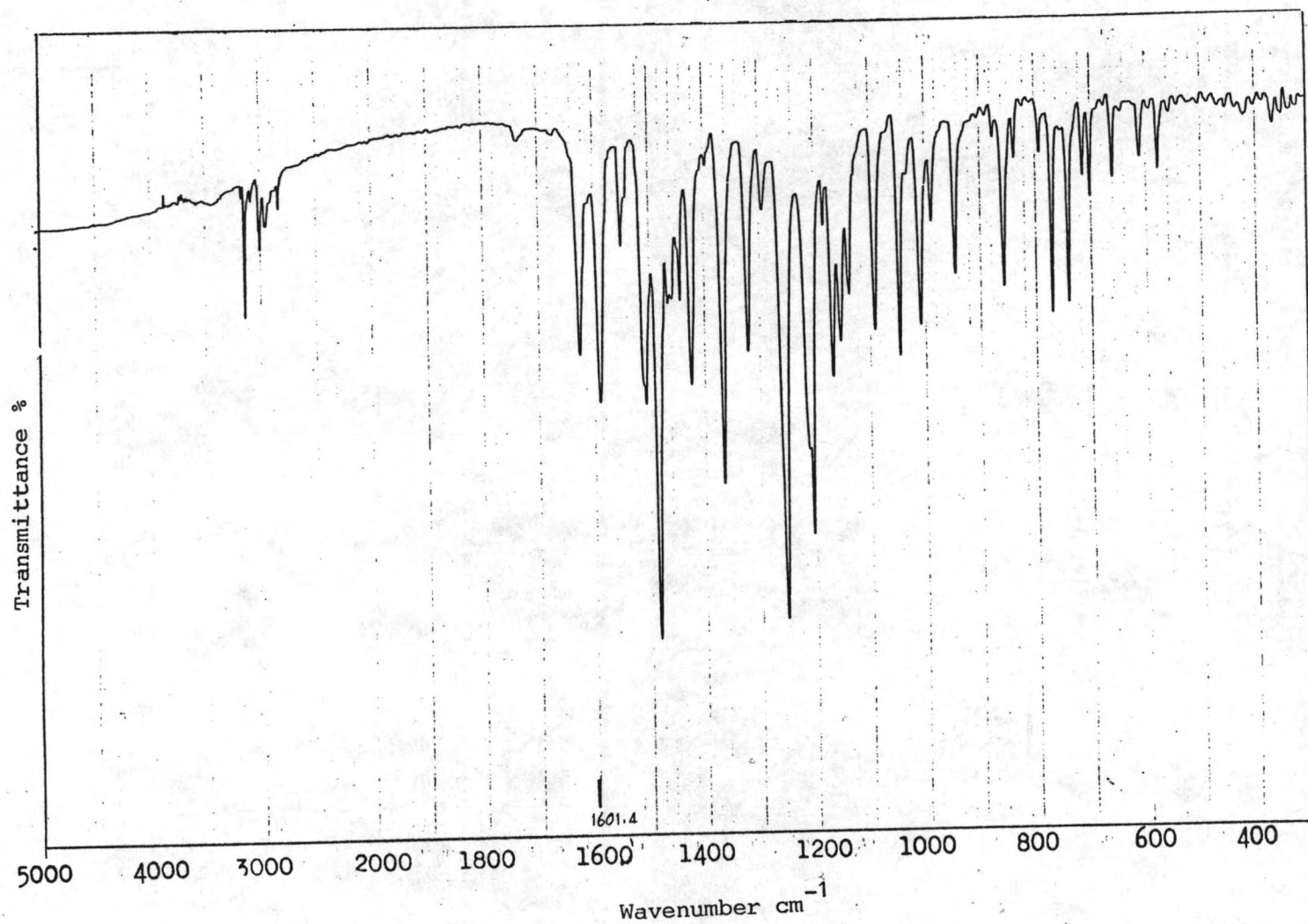


Figure 20. Infrared absorption spectrum of EG-1 in KBr disc.

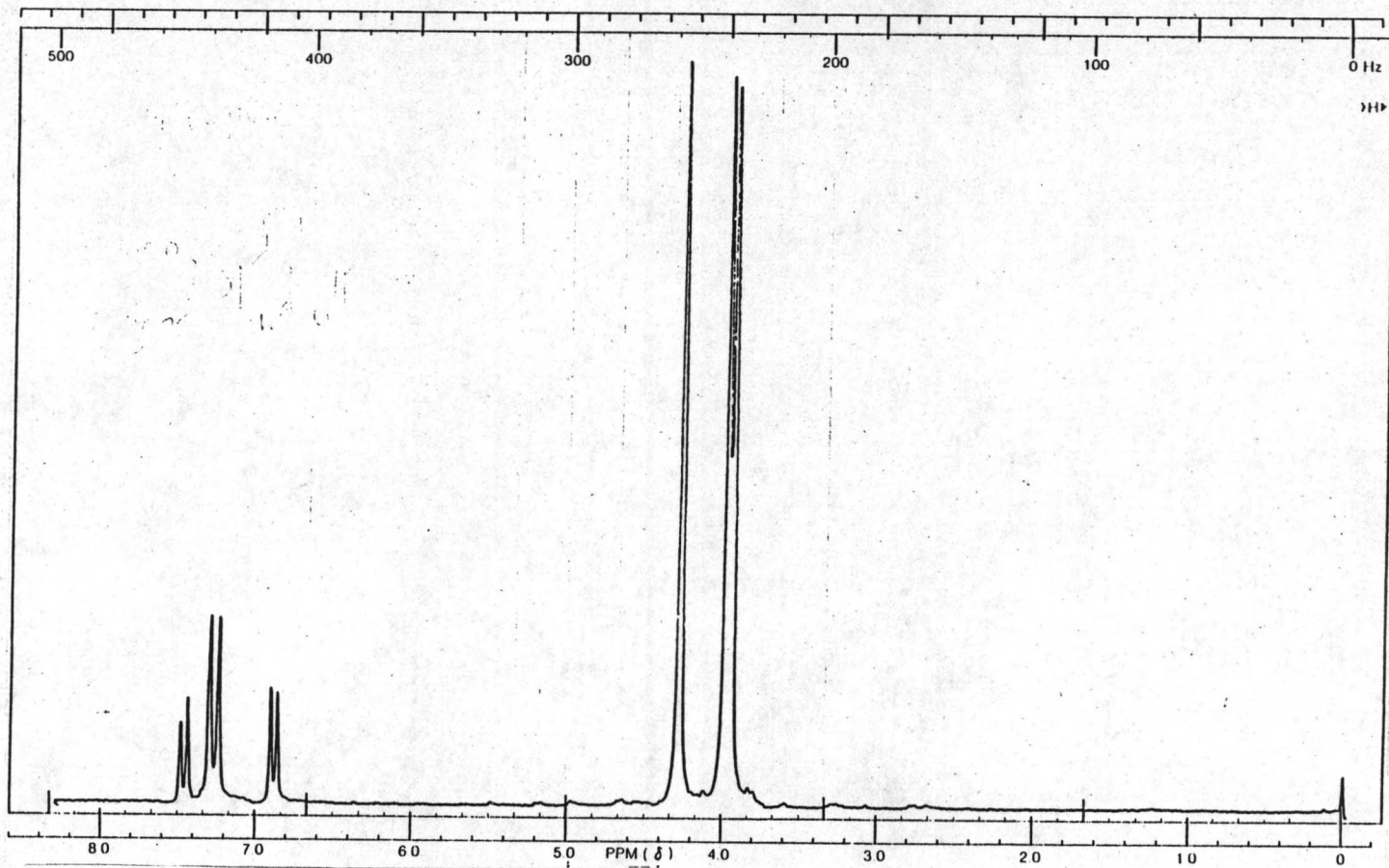


Figure 21. Nuclear magnetic resonance spectrum (60 MHz) of EG-1 in CDCl₃.

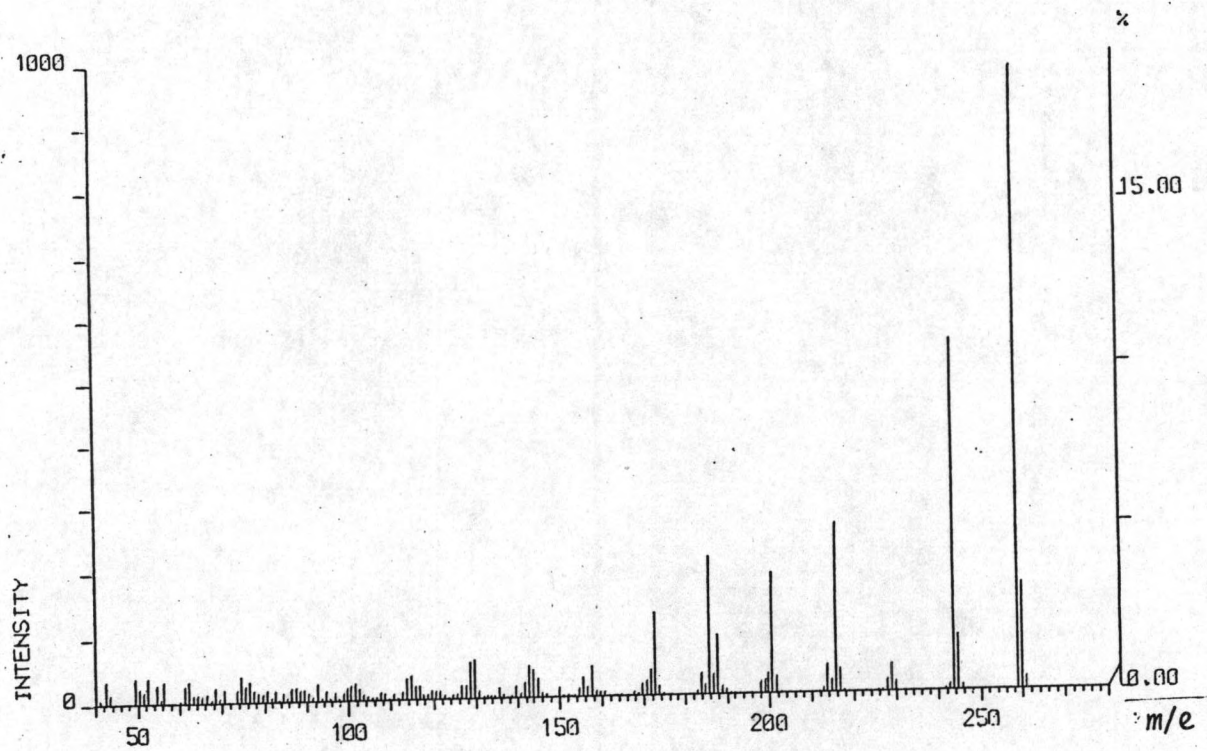


Figure 22. Mass spectrum of EG-1.

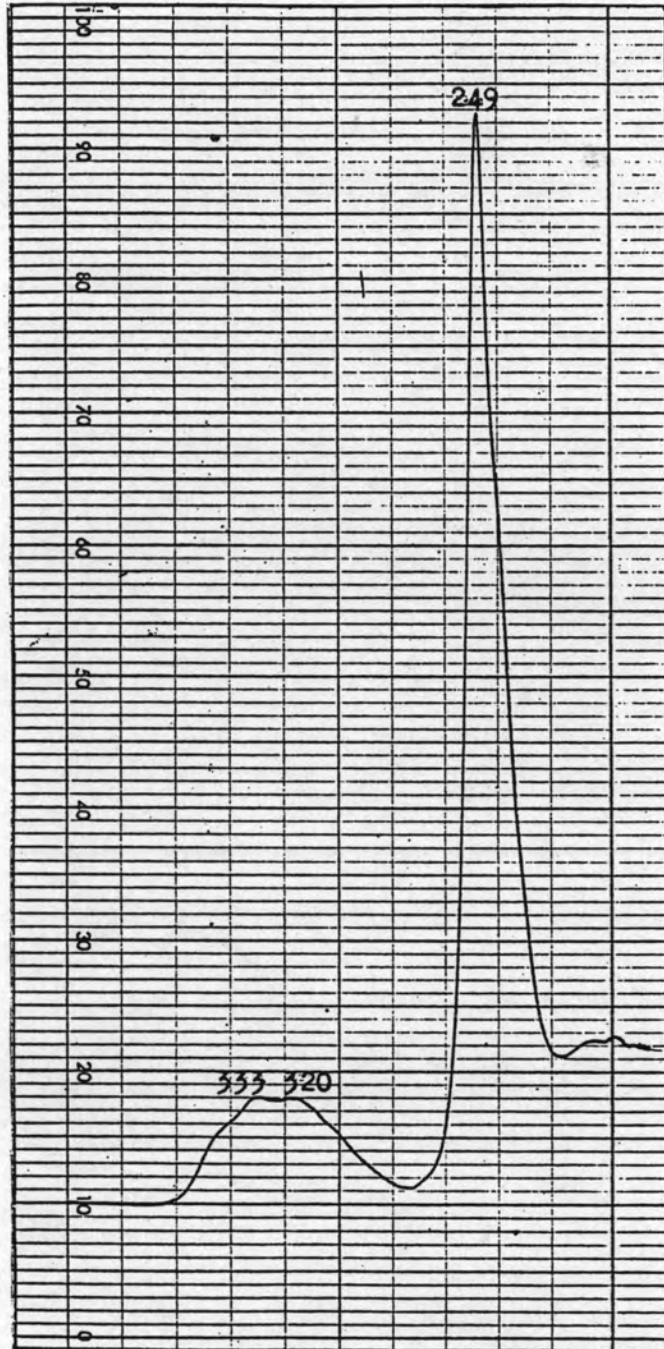


Figure 23. Ultraviolet absorption spectrum of EG-2 in EtOH.

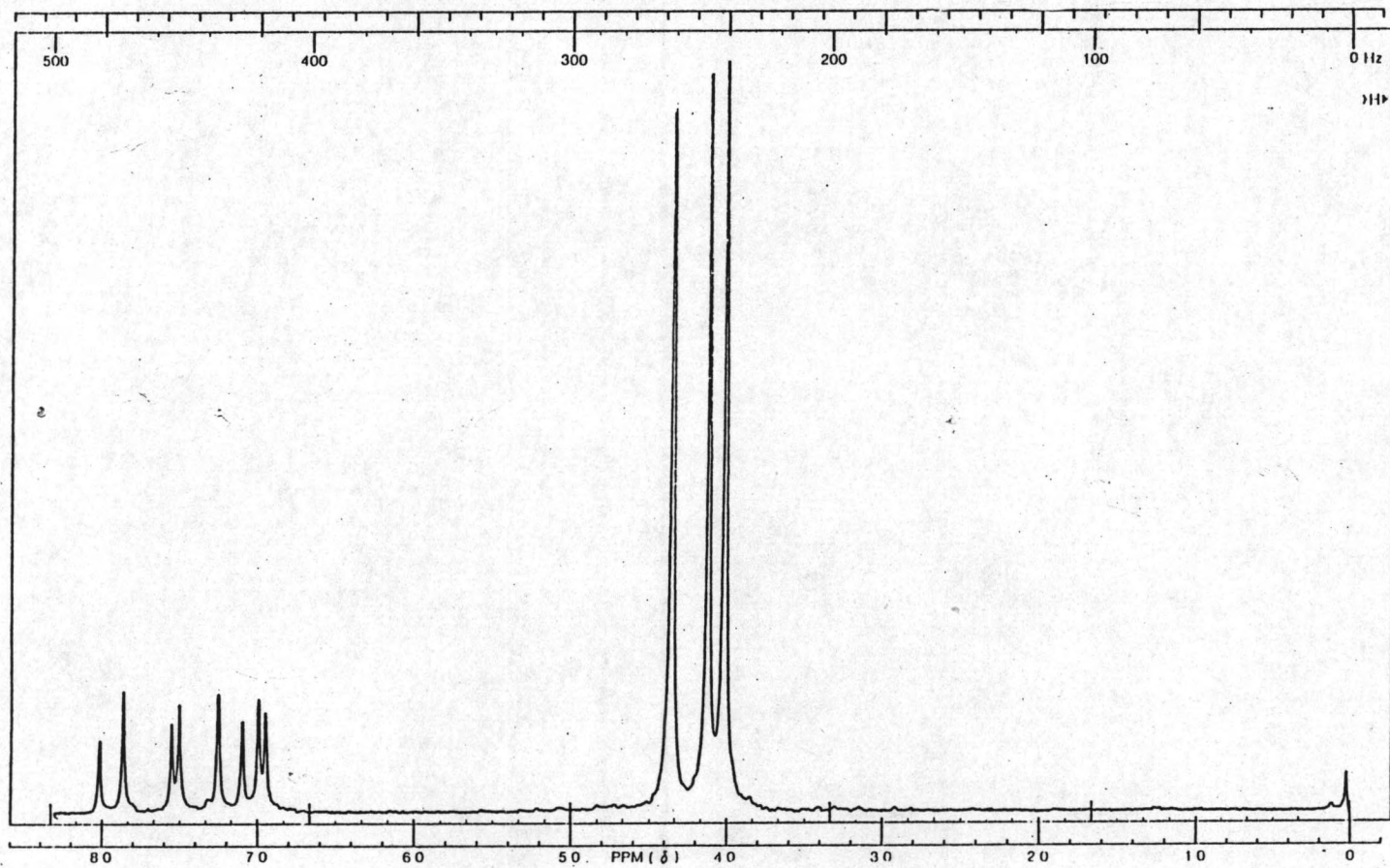


Figure 25. Nuclear magnetic resonance spectrum (60 MHz) of EG-2 in CDCl₃.

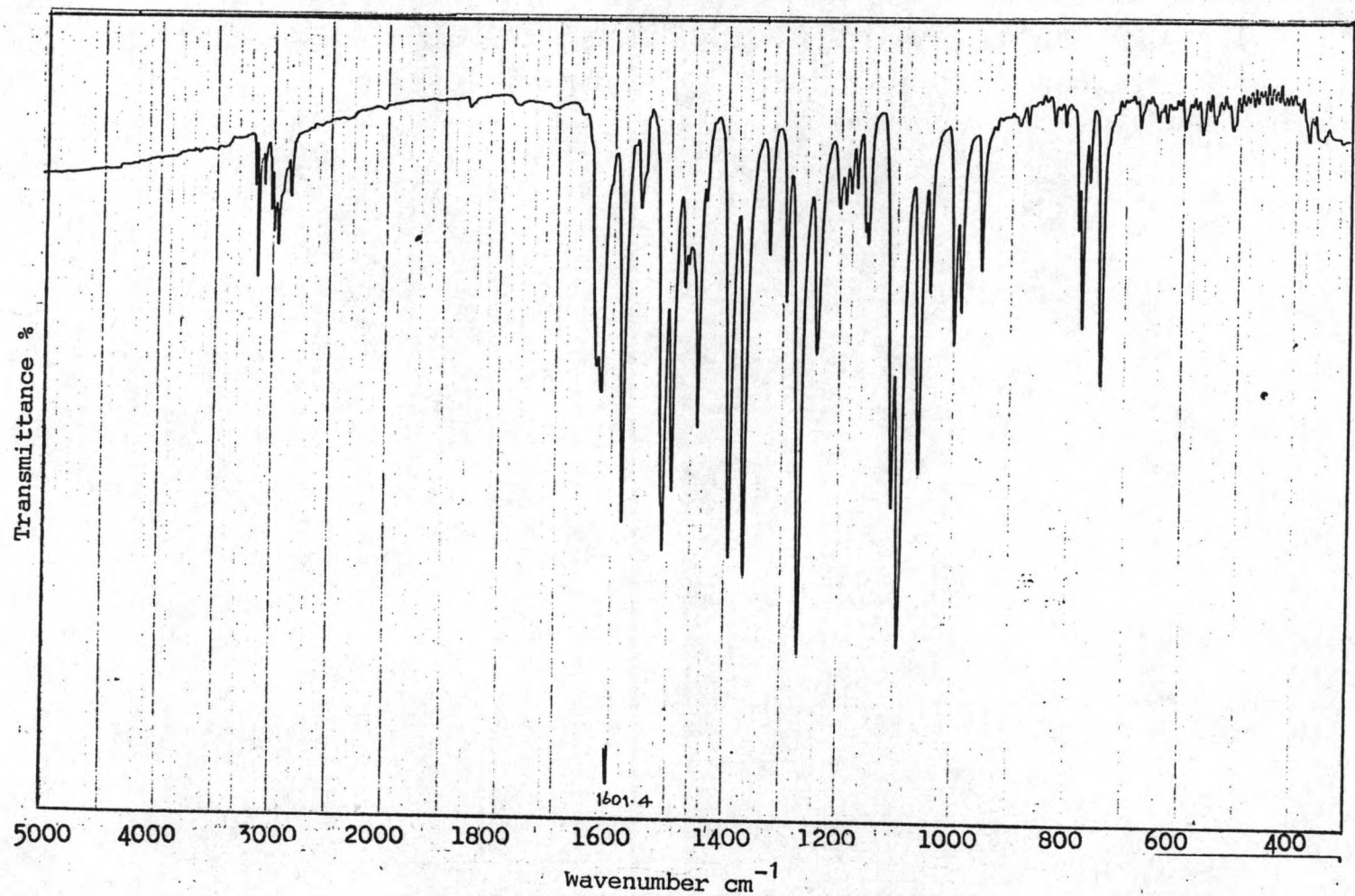


Figure 24. Infrared absorption spectrum of EG-2 in KBr disc.

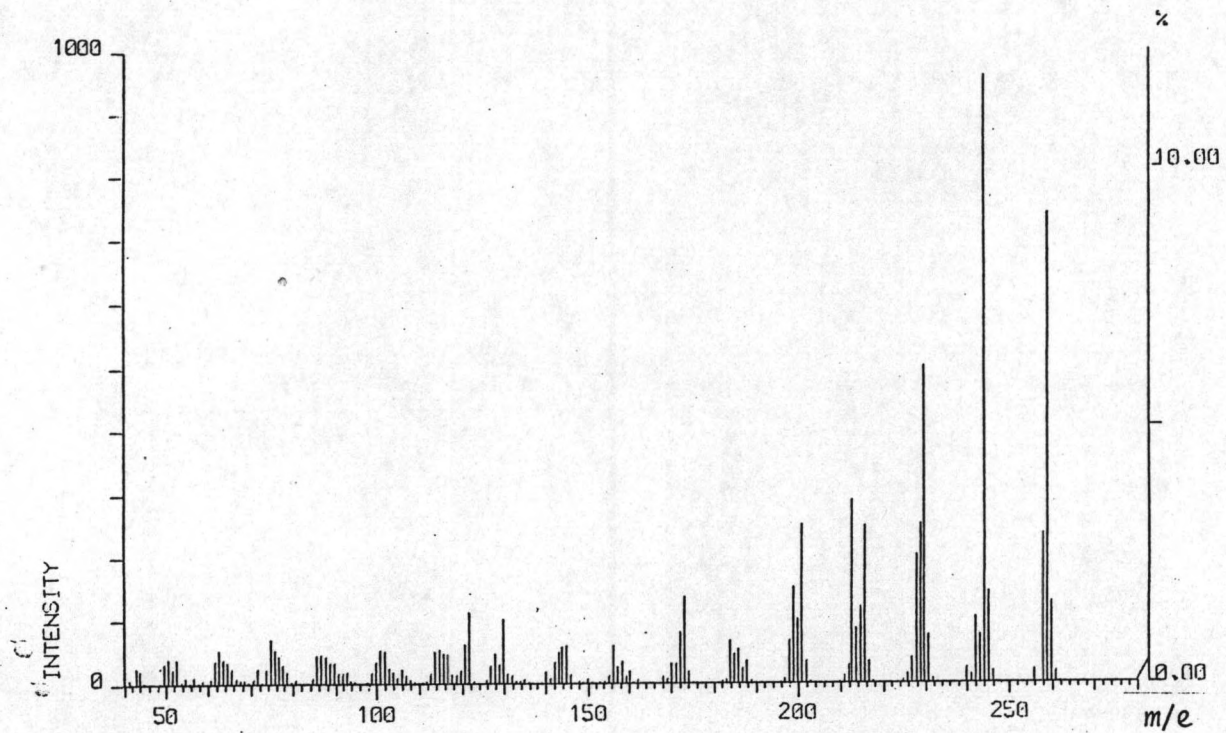


Figure 26. Mass spectrum of EG-2.



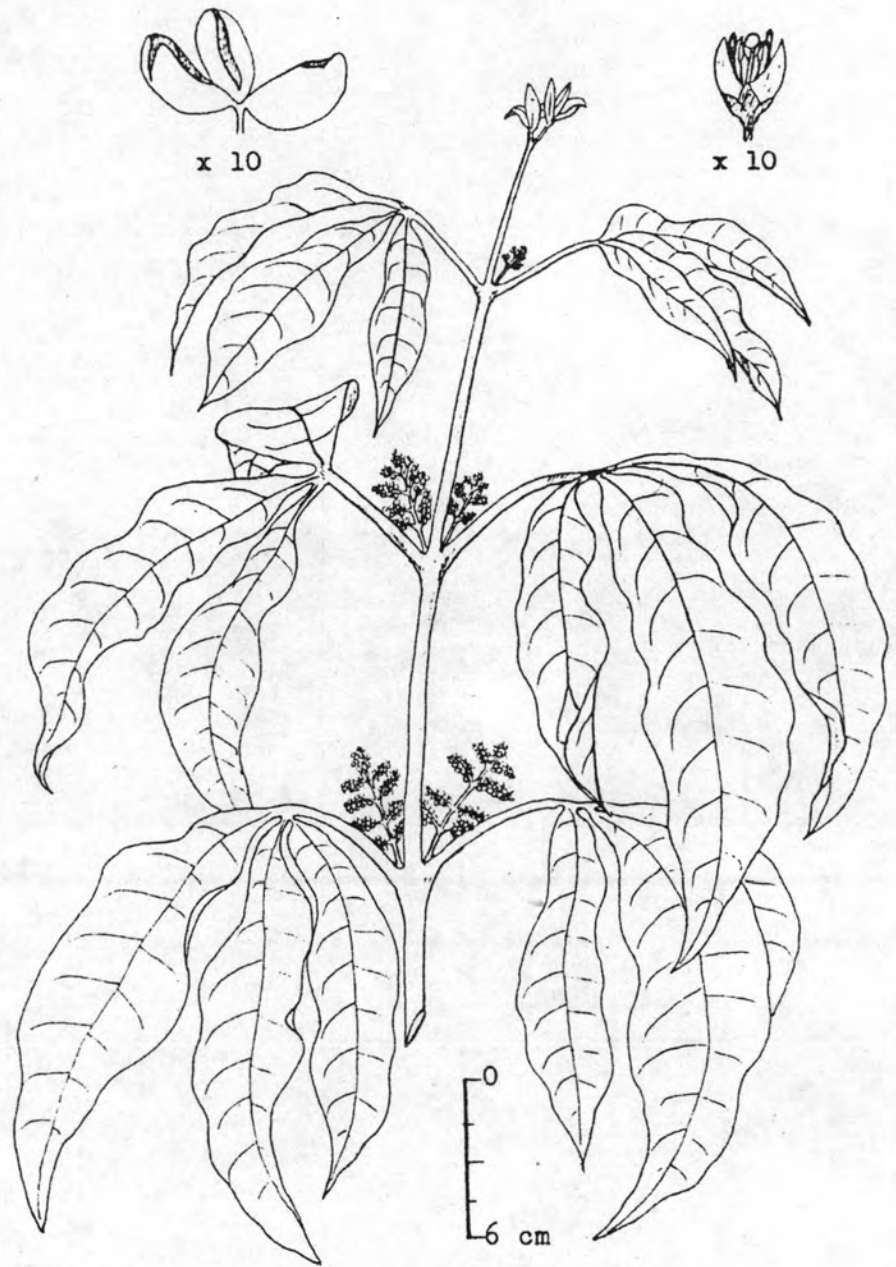


Figure 27. *Evodia gracilis* Kurz. (Rutaceae)

VITA

Mr. Sinthop Chomya was born in 1956, Suphanburi province, Thailand. He received his Bachelor of Science in Pharmacy in 1980 from the Faculty of Pharmaceutical Sciences, Chulalongkorn University.



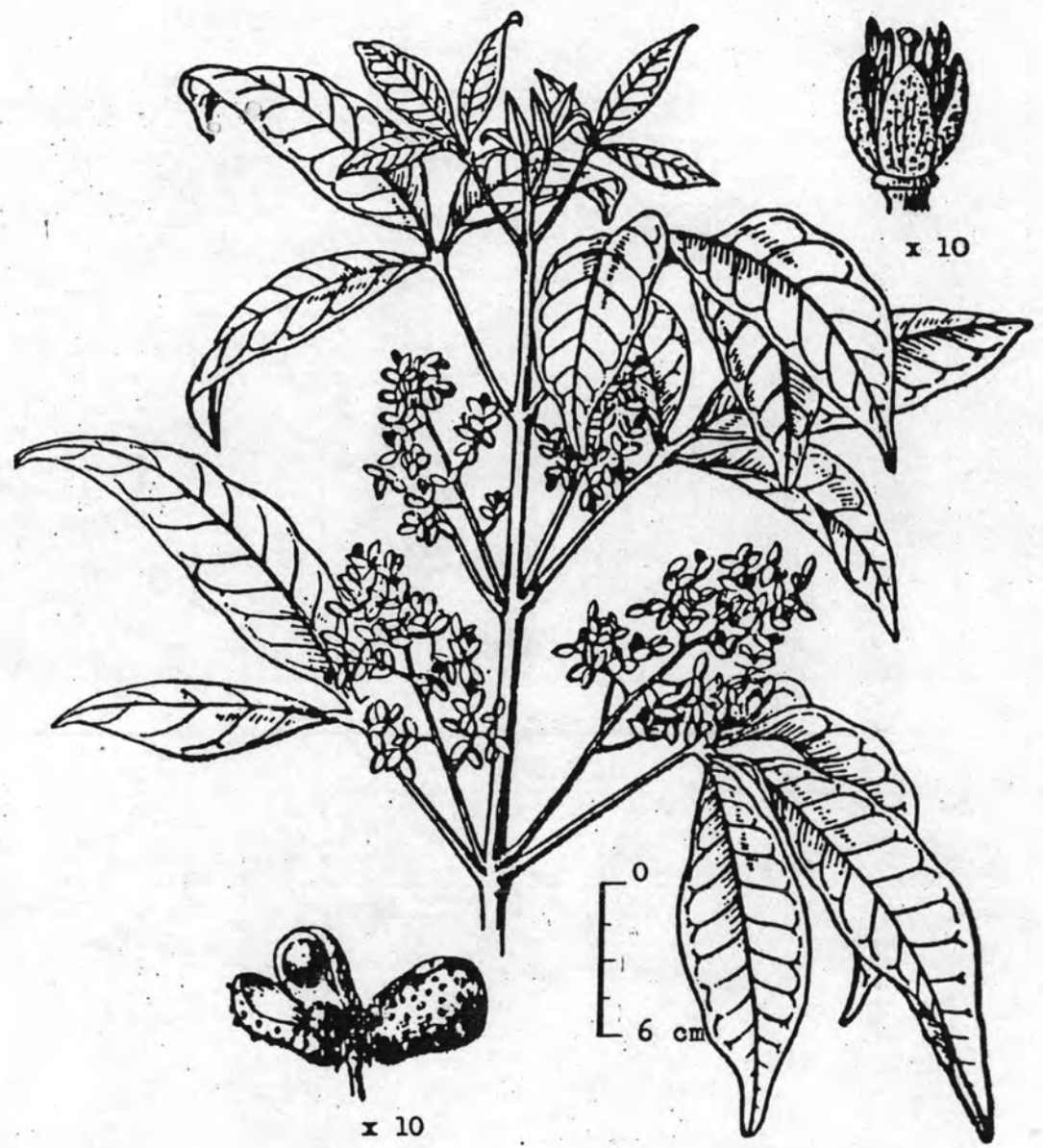


Figure 28. *Evodia lepta* Merr. (Rutaceae)
(After Flora Hinanica, 1964)