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APPENDIX

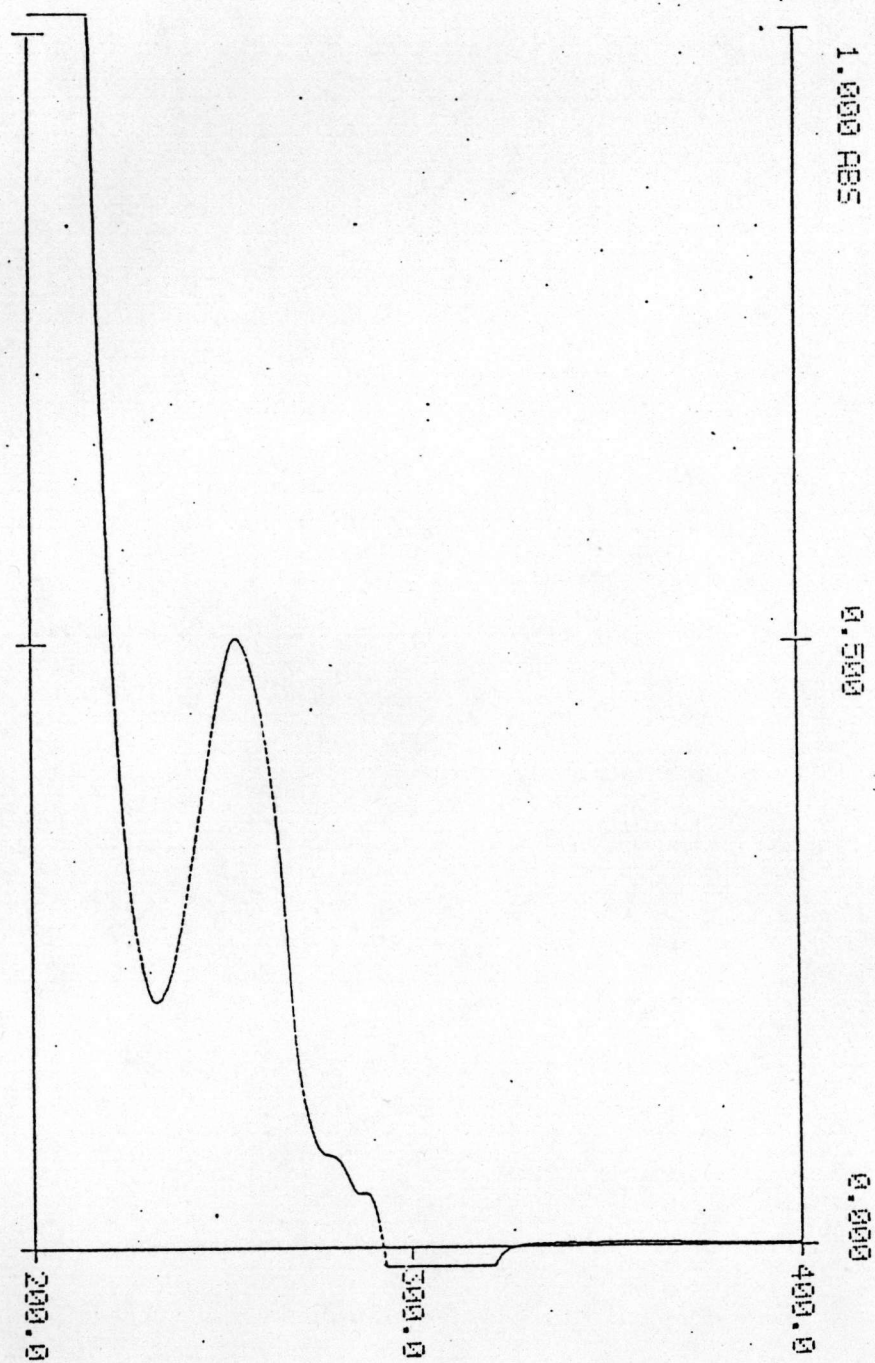


Figure 13. Ultra violet absorption spectrum of PC₃ in ethanol

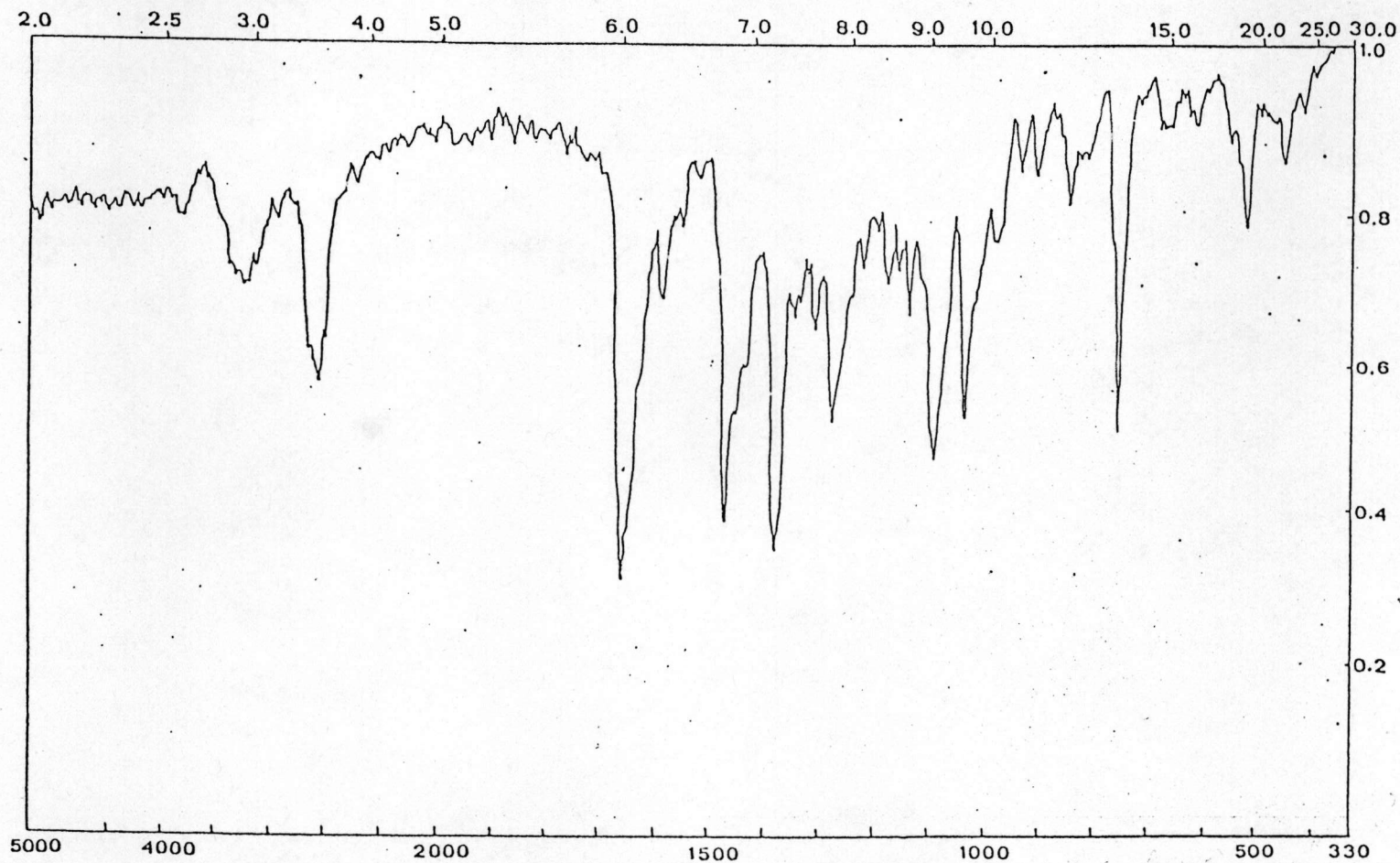


Figure 14. Infrared absorption spectrum of PC₃ in KBr disc

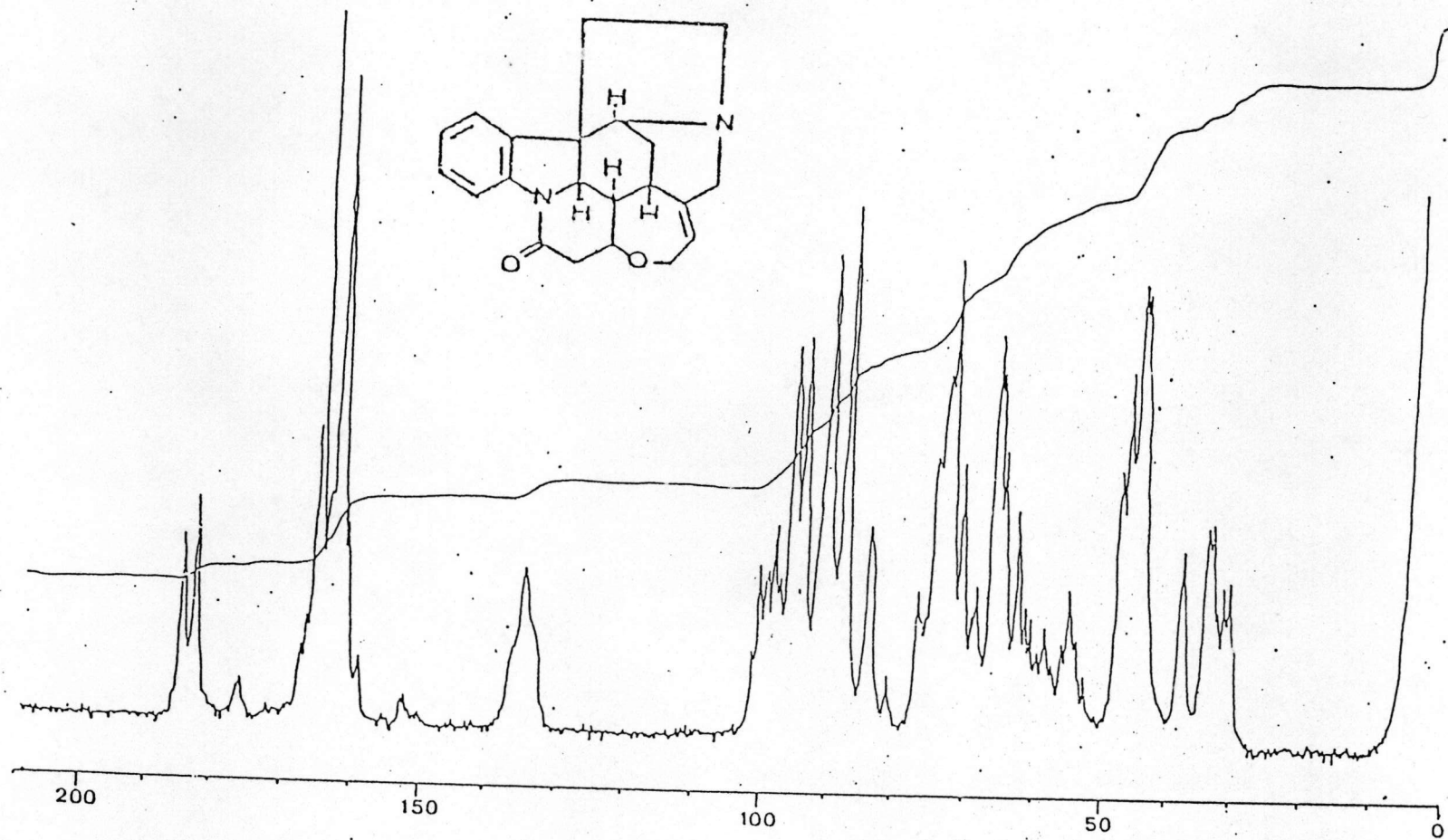


Figure 15. ^1H -Nuclear Magnetic Resonance spectrum (90 MHz) of PC₃ in CDCl_3

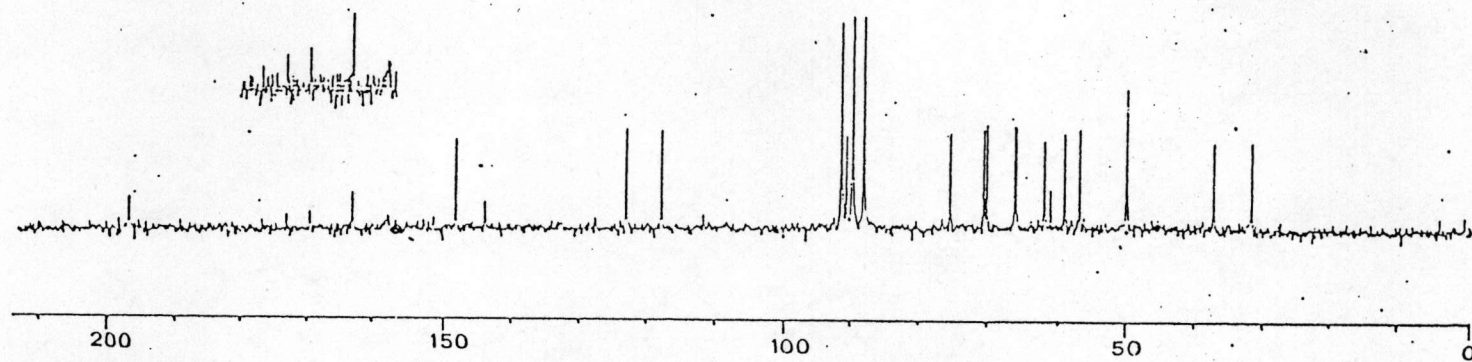


Figure 16. ^{13}C -Nuclear Magnetic Resonance spectrum (90 MHz) of PC_3 in CDCl_3

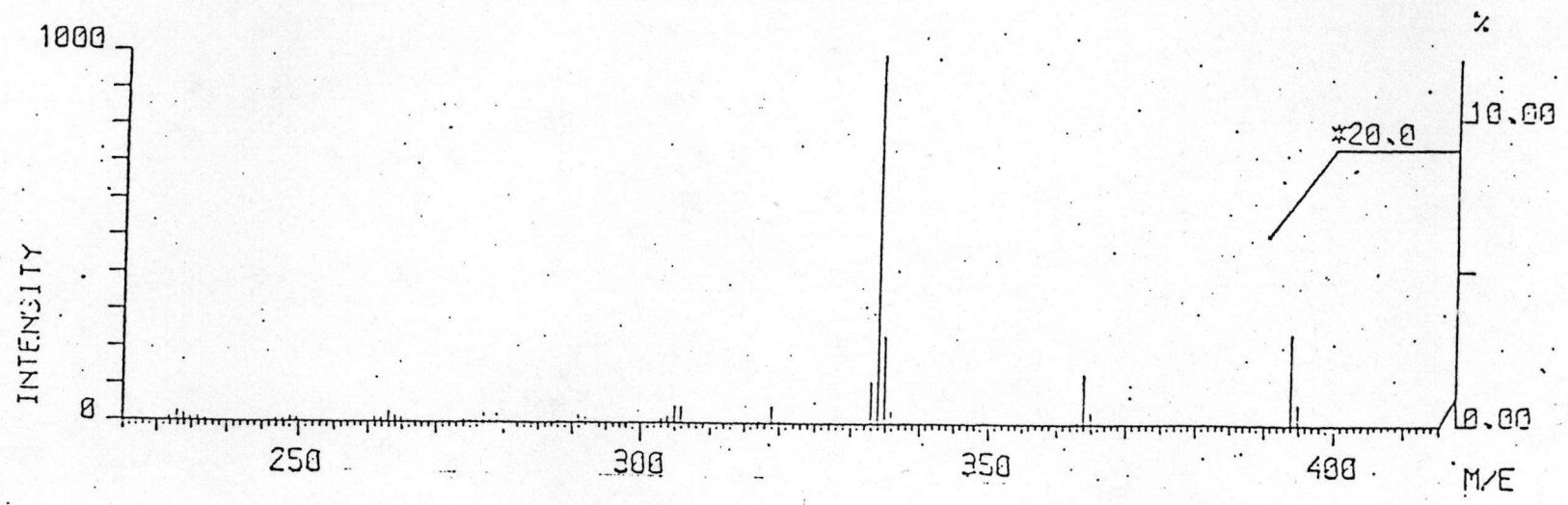
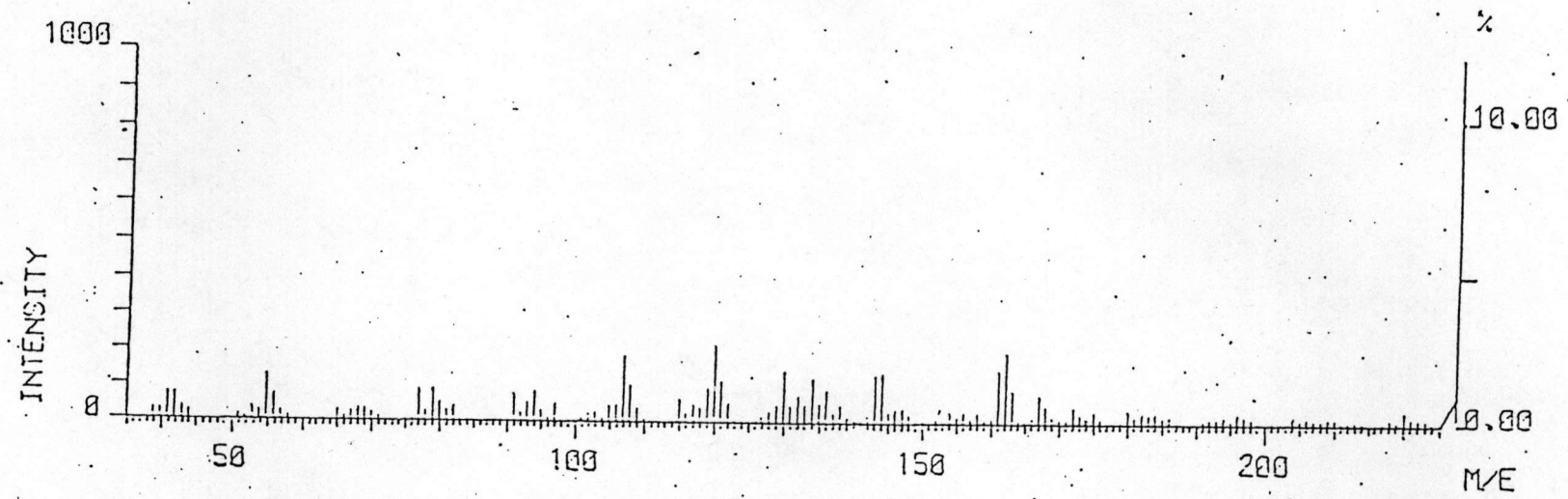
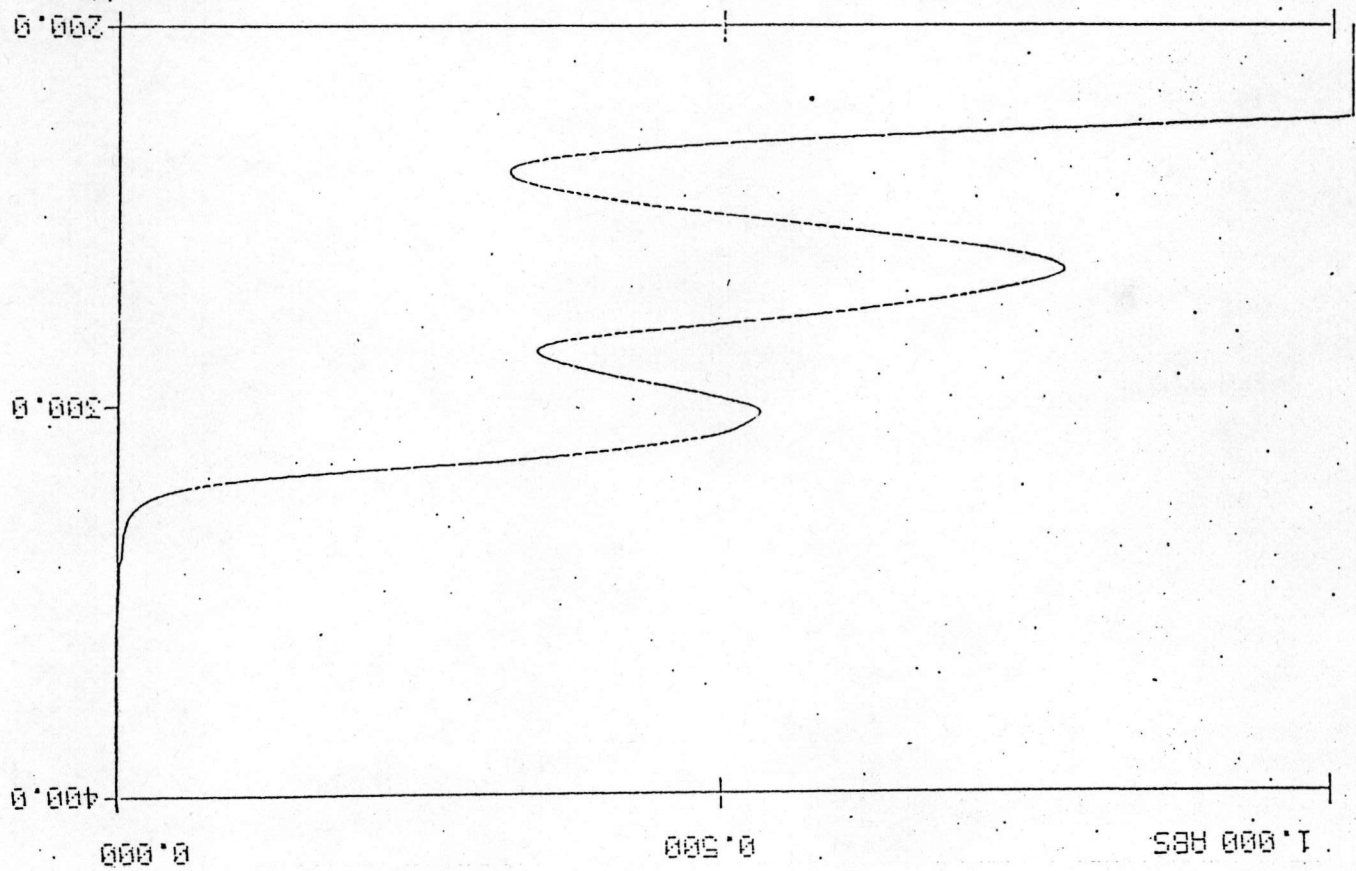


Figure 17. Mass spectrum (150 ° C) of PC₃

Figure 18. Ultra violet absorption spectrum of PC 4-1 in ethanol



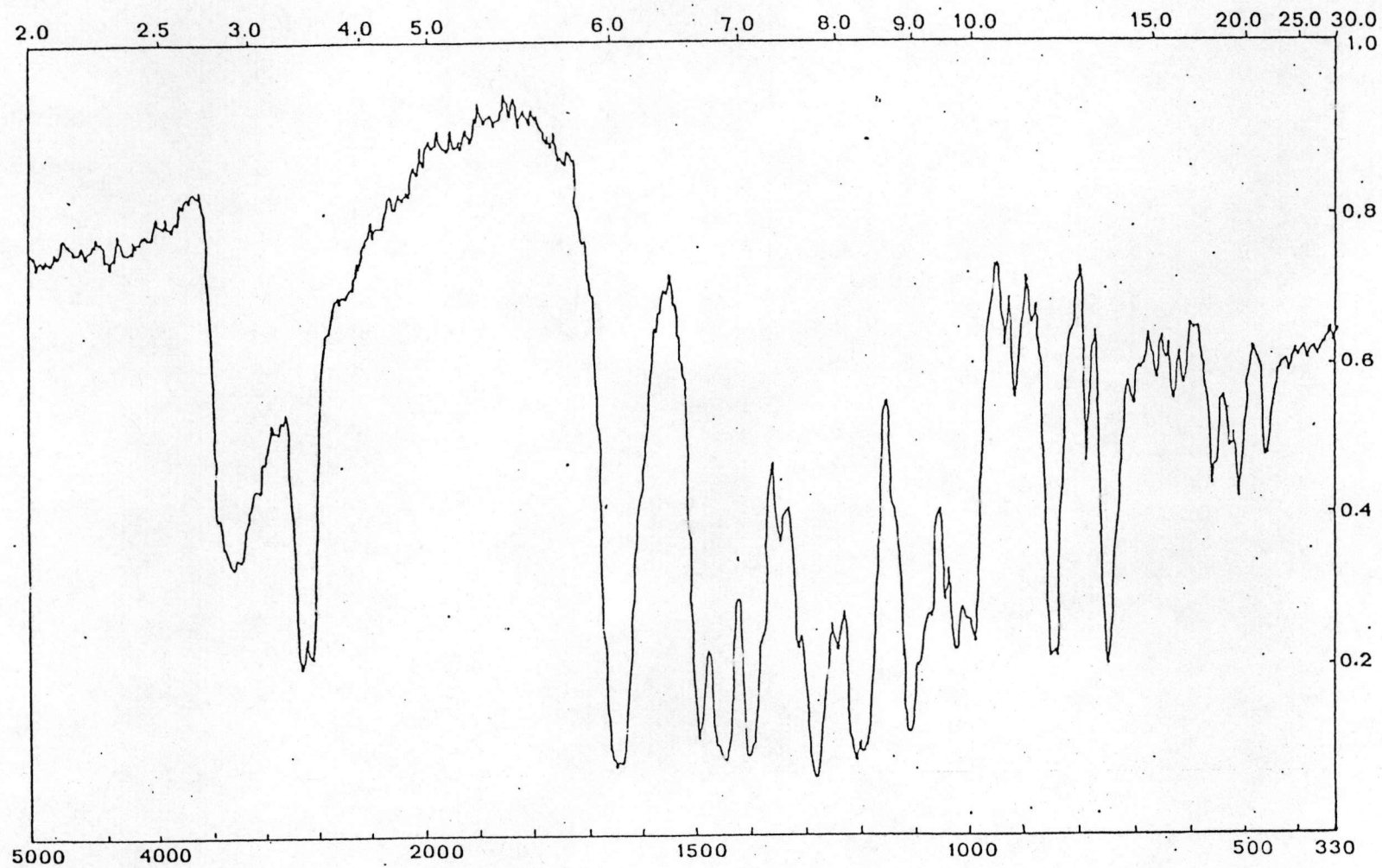


Figure 19. Infrared absorption spectrum of PC 4-1 in KBr disc

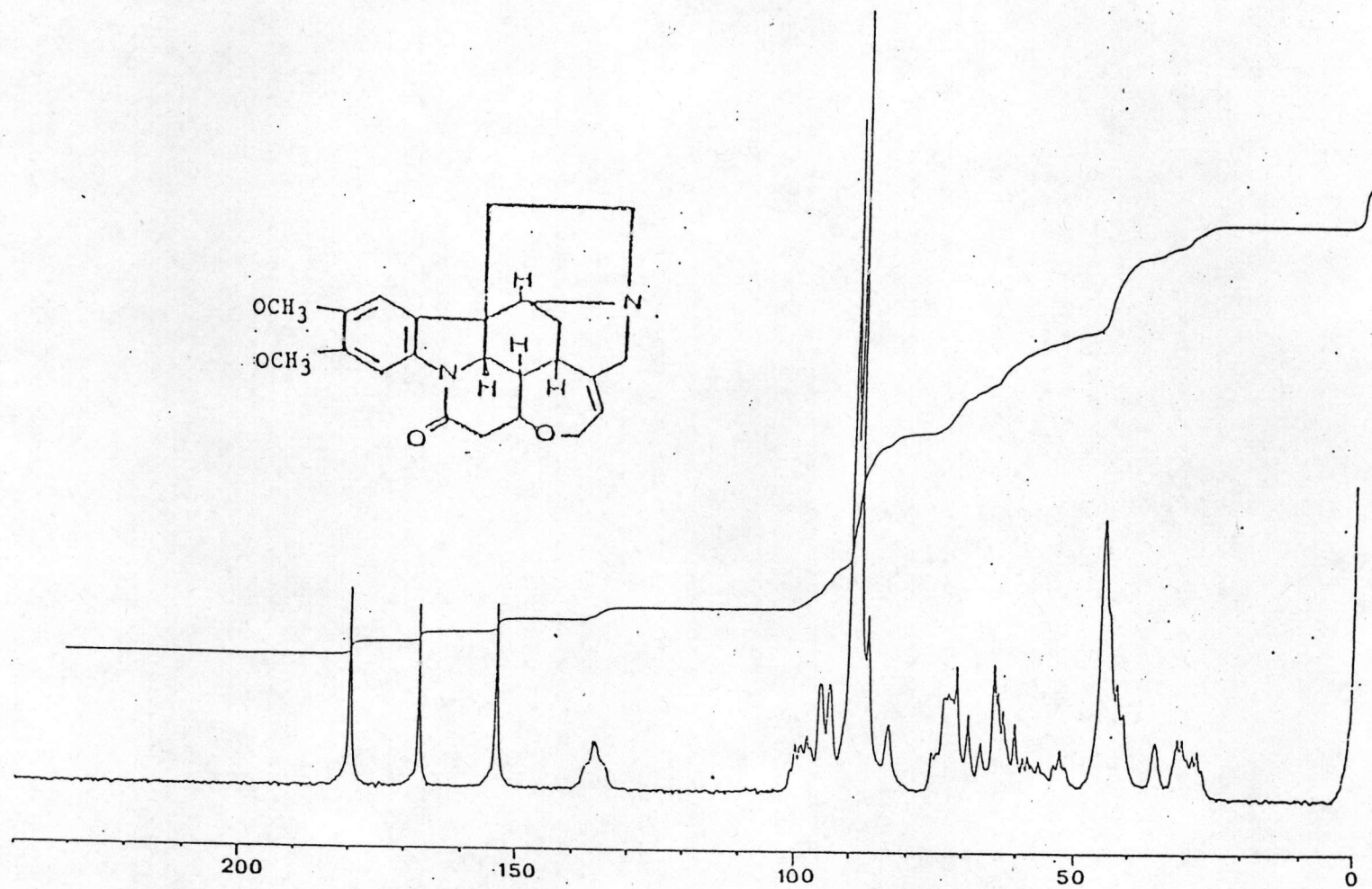


Figure 20. ^1H -Nuclear Magnetic Resonance spectrum (90 MHz) of PC-4-1 in CDCl_3

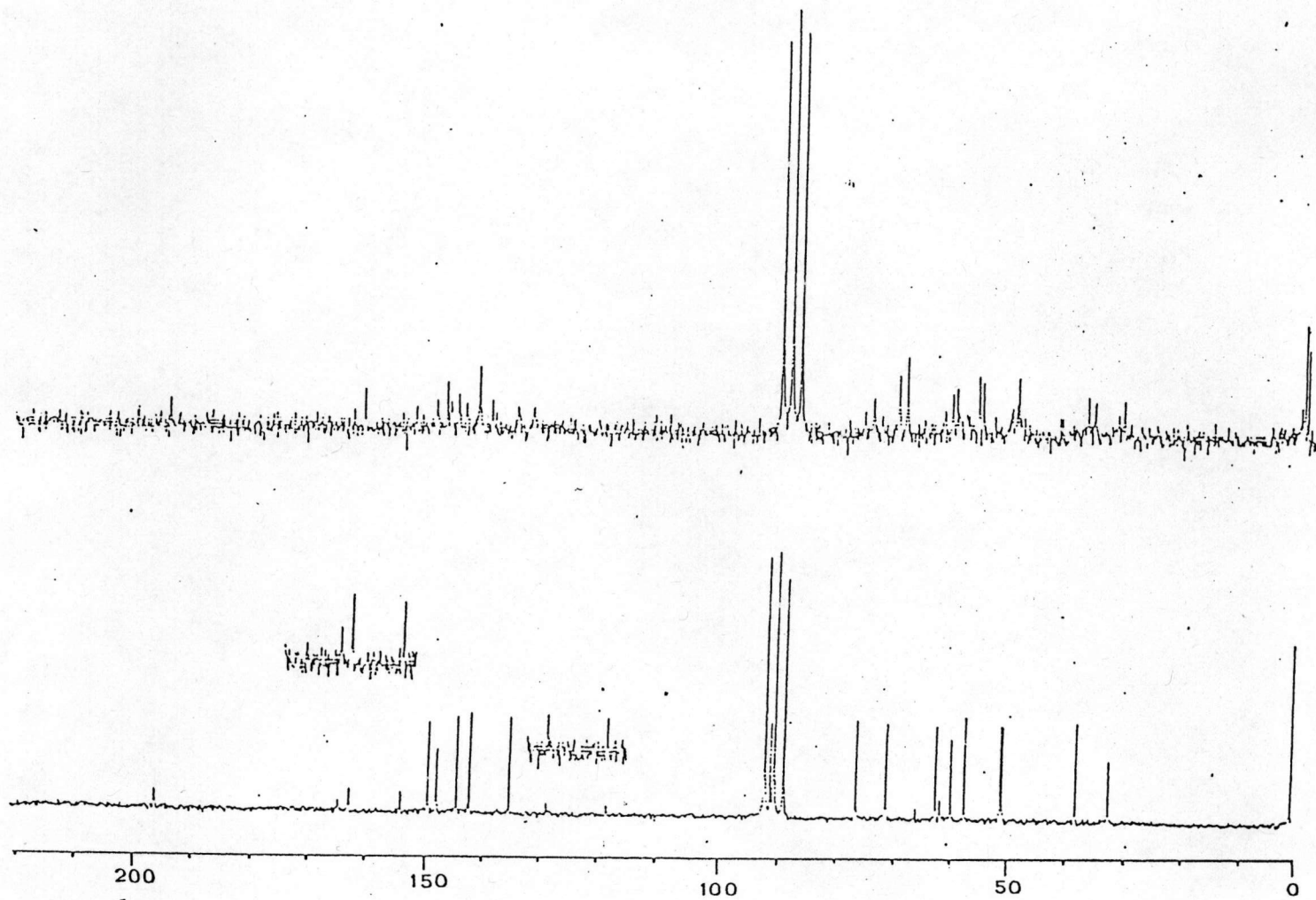


Figure 21. ^{13}C -Nuclear Magnetic Resonance spectrum (90 MHz) of PC 4-1 in CDCl_3

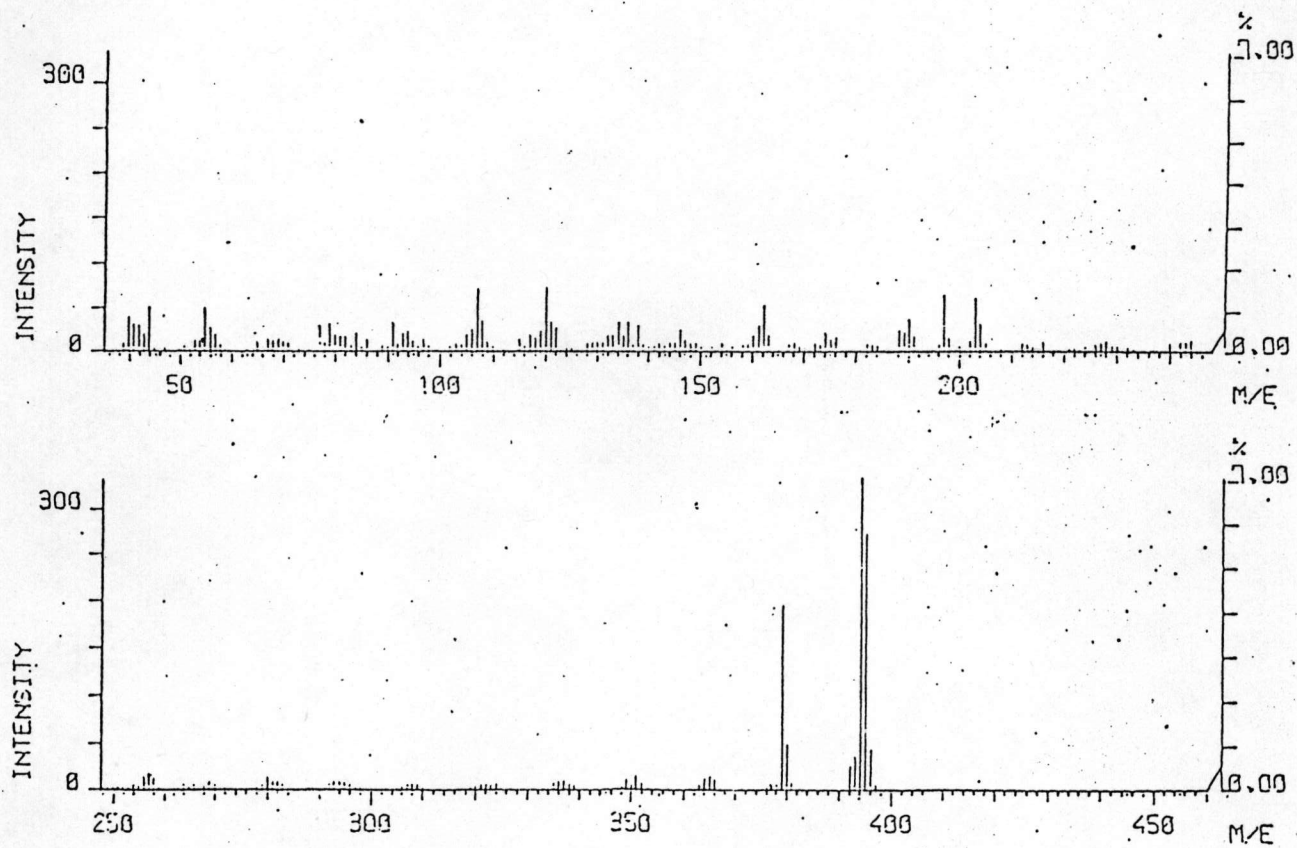
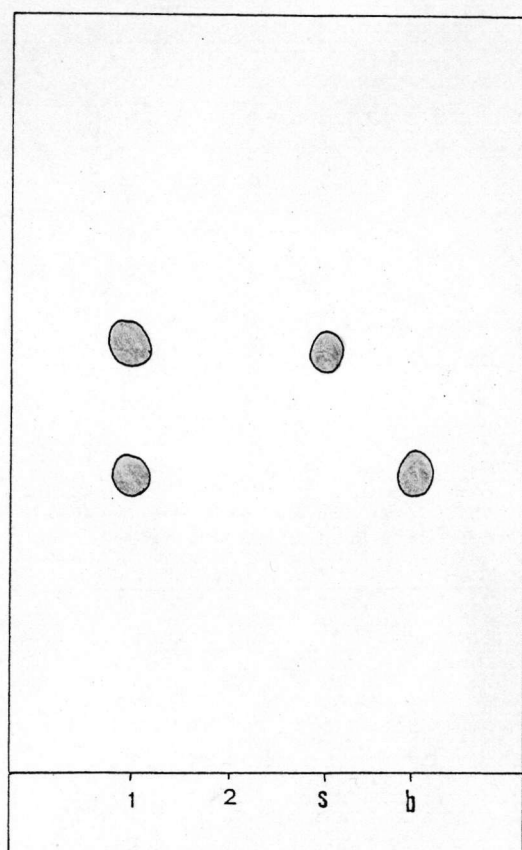


Figure 22. Mass spectrum (200 °C) of PC 4-1



1= *S. nux-vomica* L.

2= *S. nux-blanda* A.W.Hill

s= strychnine

b= brucine

Figure 23. Thin layer chromatogram of *S. nux-vomica* L. and *S. nux-blanda* A.W.Hill alcoholic extracts



VITA

Mrs. Pranee Chavalittumrong was born on December 4, 1954 in Chiangrai, Thailand. She received her Bachelor of Science in Pharmacy in 1976, from the Faculty of Pharmaceutical Sciences, Chulalongkorn University, Bangkok, Thailand. Since 1981, she has been the scientist in the Department of Medical Sciences, Ministry of Public Health.