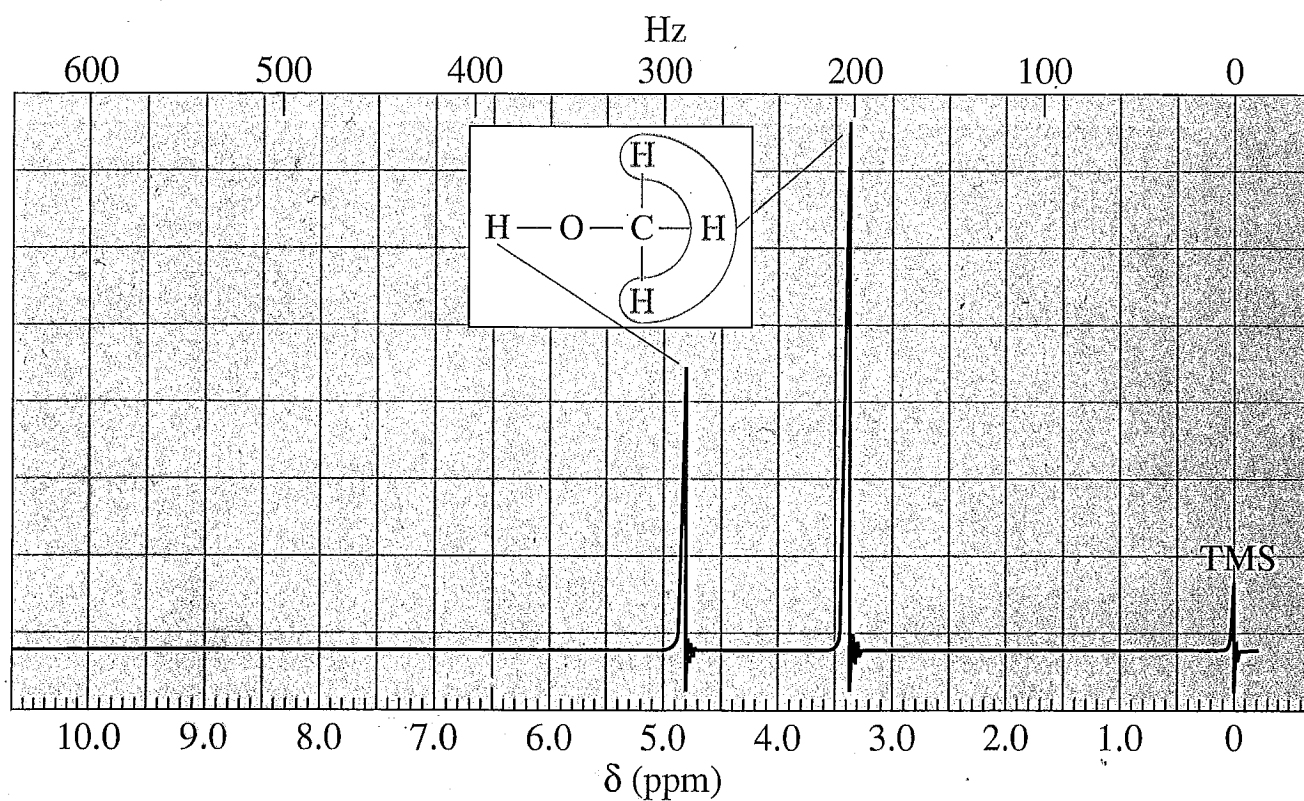
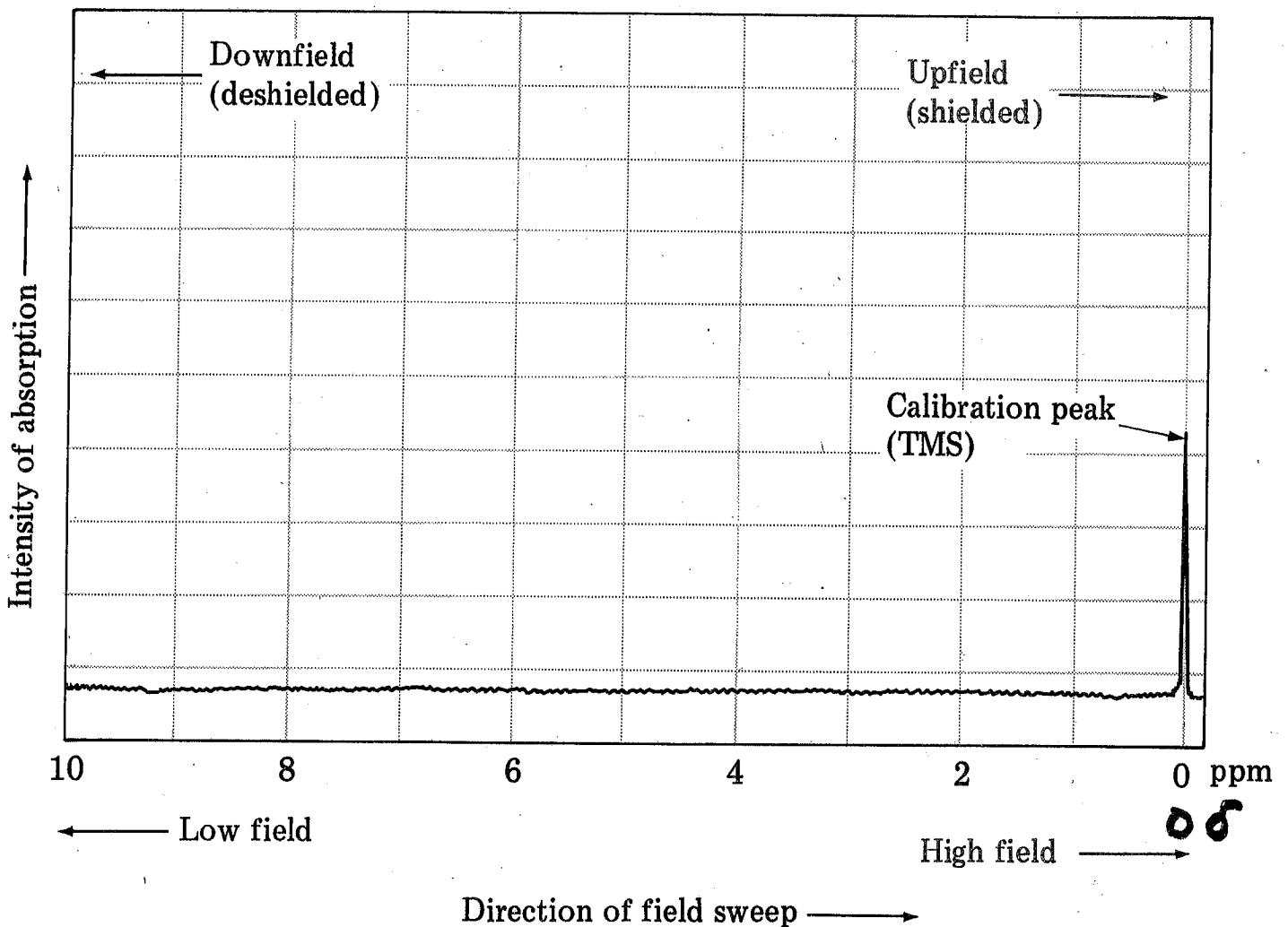


Fig. 13-9 Proton NMR Spectrum of Methanol



The NMR chart



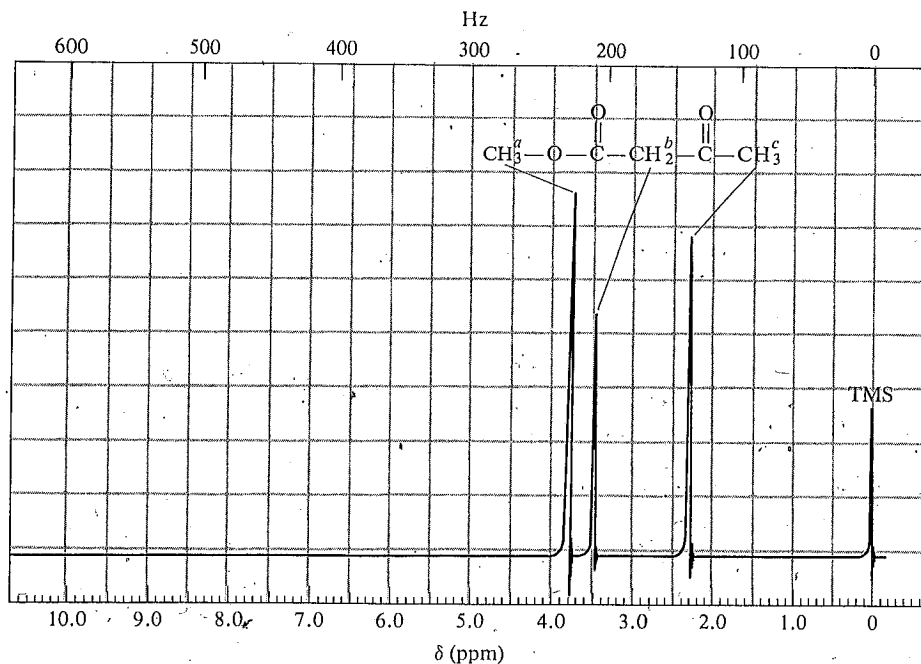
$1\delta = 1\text{ ppm of operating field strength}$

for 60 MHz : $1\delta = 60\text{ MHz}$

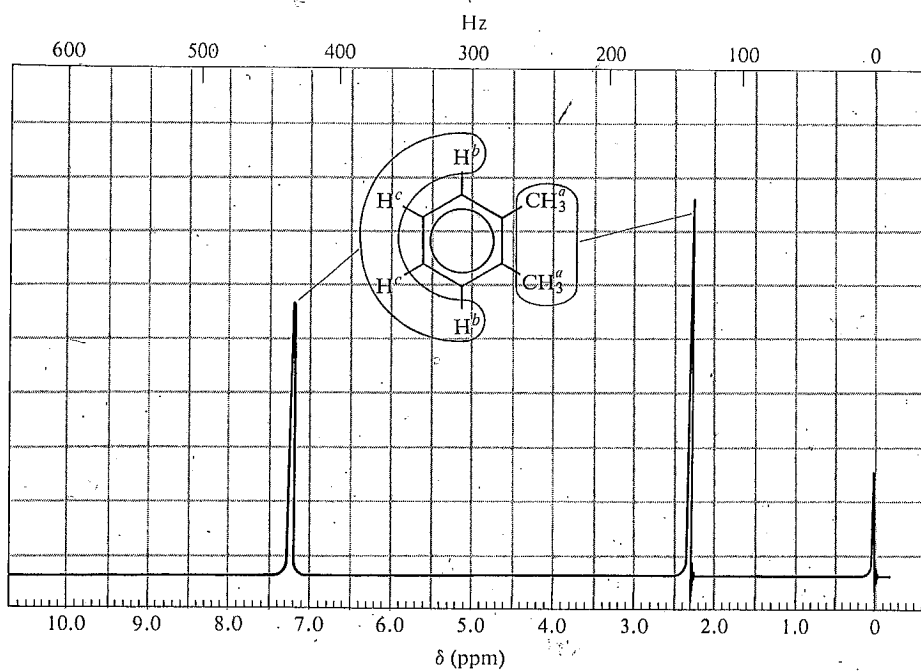
for 100 MHz : $1\delta = 100\text{ MHz}$

PROTON NMR SPECTRUM of METHYL ACETOACETATE

T51

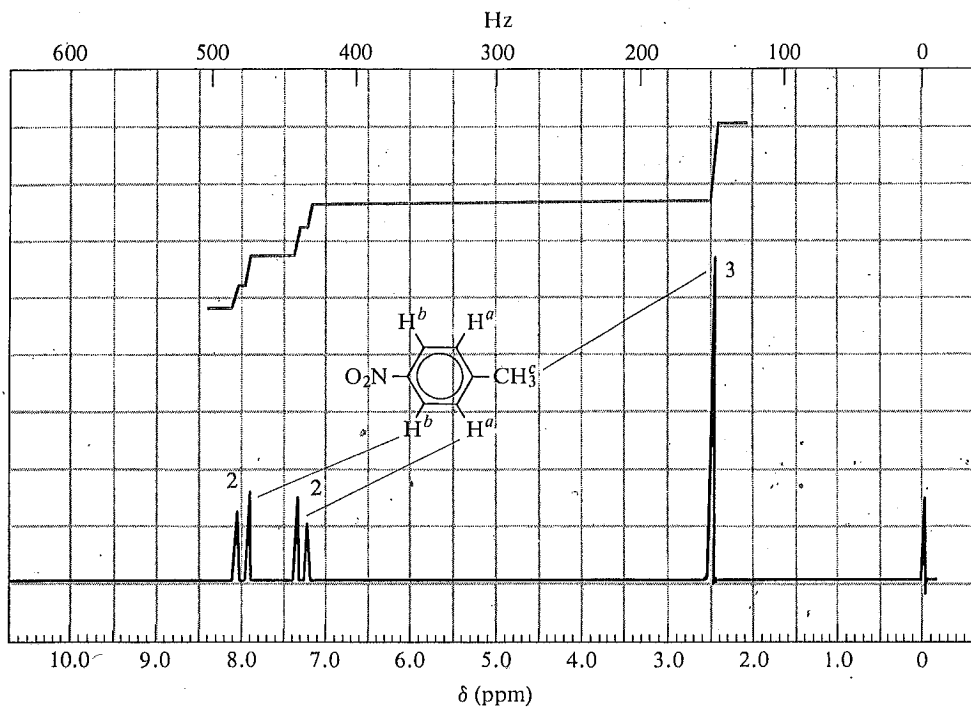


PROTON NMR SPECTRUM of *ortho*-XYLENE

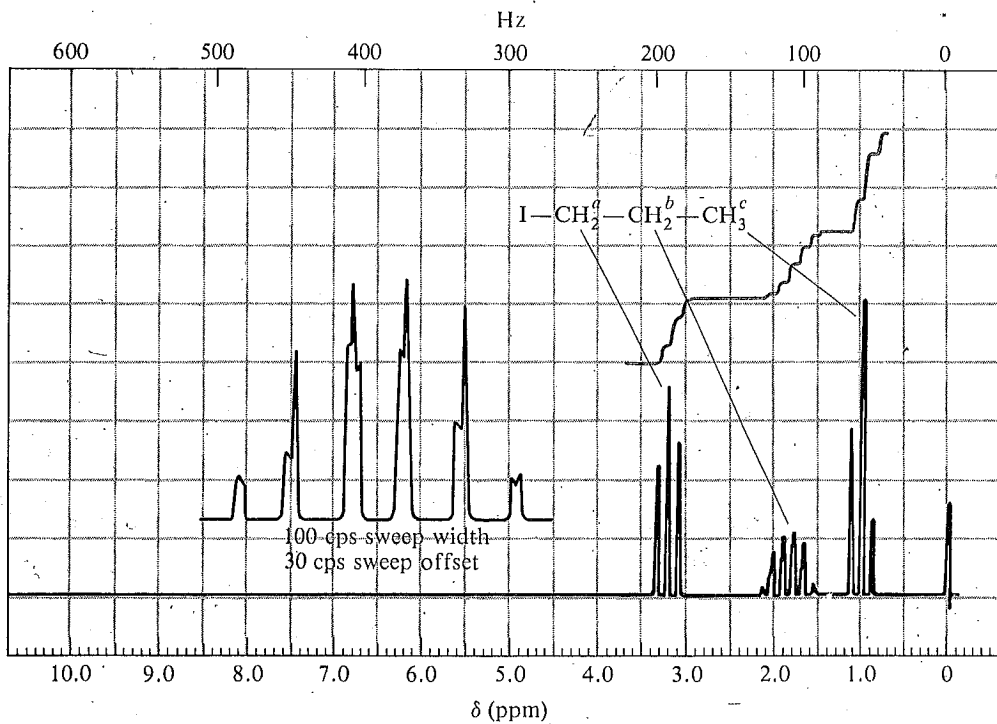


PROTON NMR SPECTRUM of *p*-NITROTOLUENE

T60

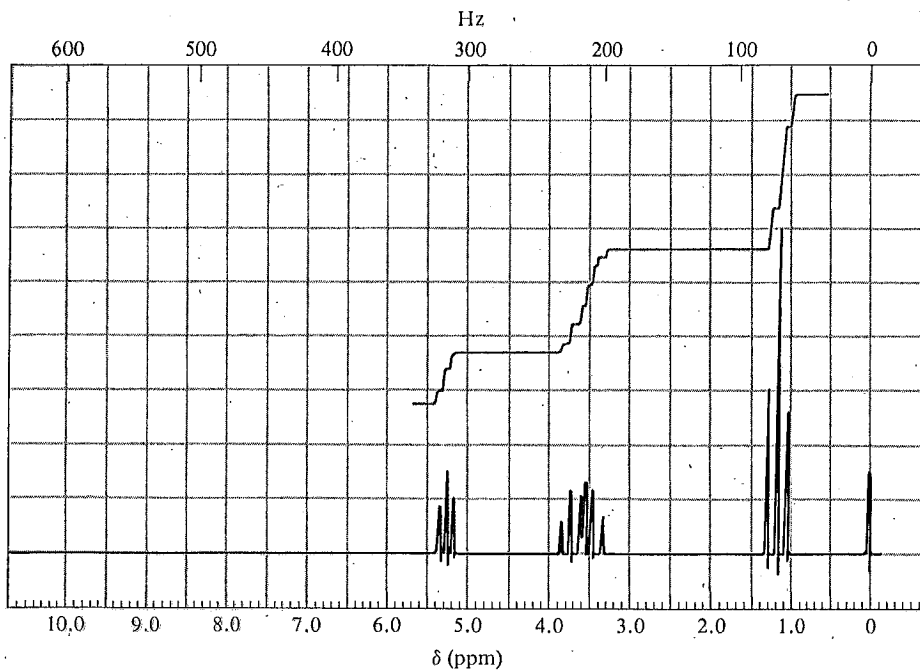


PROTON NMR SPECTRUM of *n*-PROPYL IODIDE

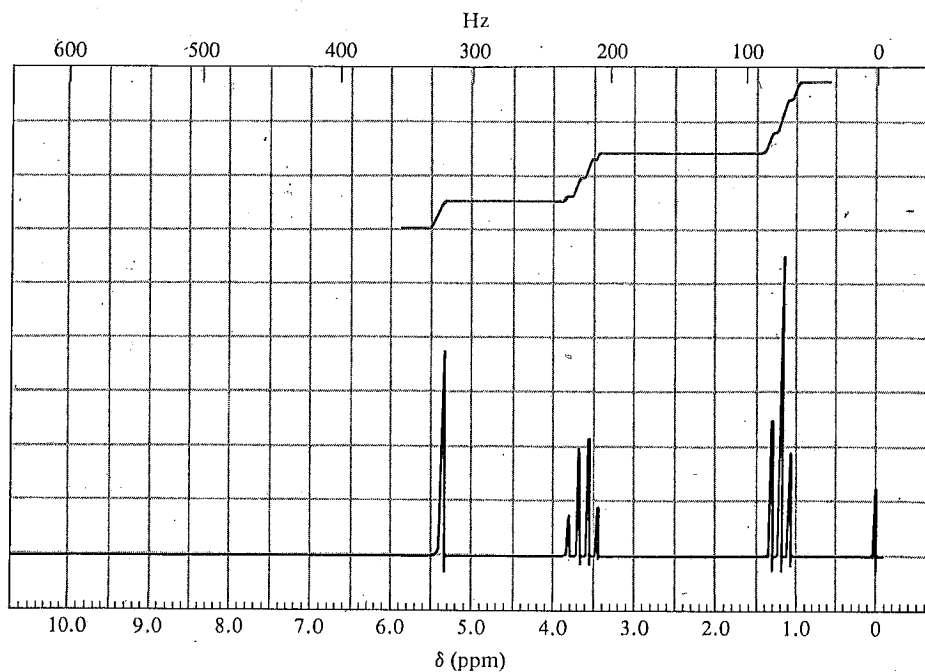


(a) PROTON NMR SPECTRUM of ULTRAPURE ETHANOL

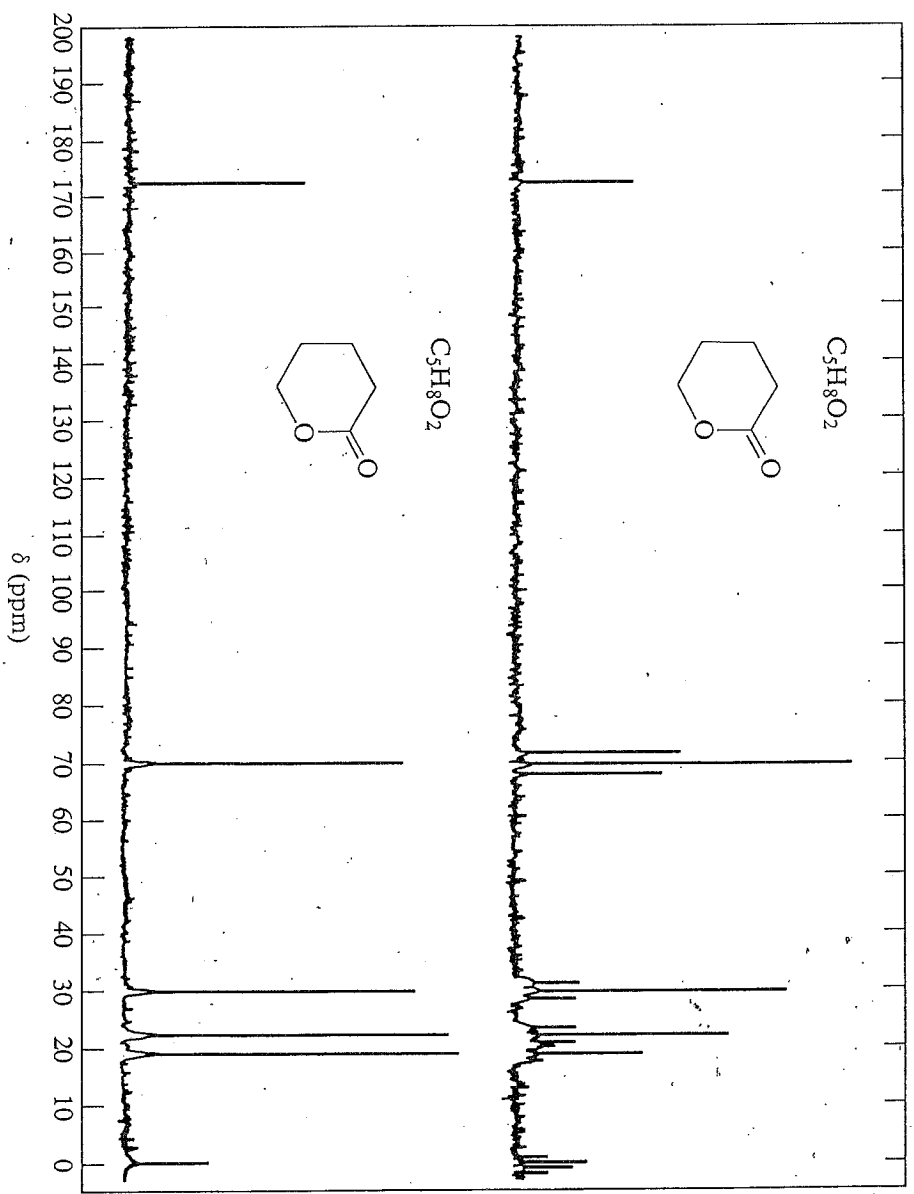
T64



(b) PROTON NMR SPECTRUM of NORMAL ETHANOL

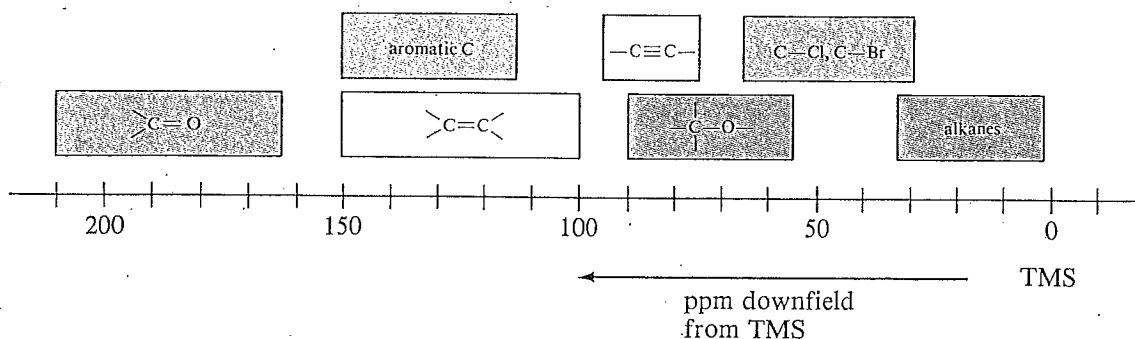


(a) OFF-RESONANCE DECOUPLED CMR SPECTRUM of δ -VALEROLACTONE
(b) NOISE-DECOUPLED CMR SPECTRUM of δ -VALEROLACTONE



COMMON CHEMICAL SHIFTS in the ¹³C NMR (CMR) SPECTRUM

T68



OFF-RESONANCE DECOUPLED CMR SPECTRUM of 1,2,2-TRICHLOROPROPANE

