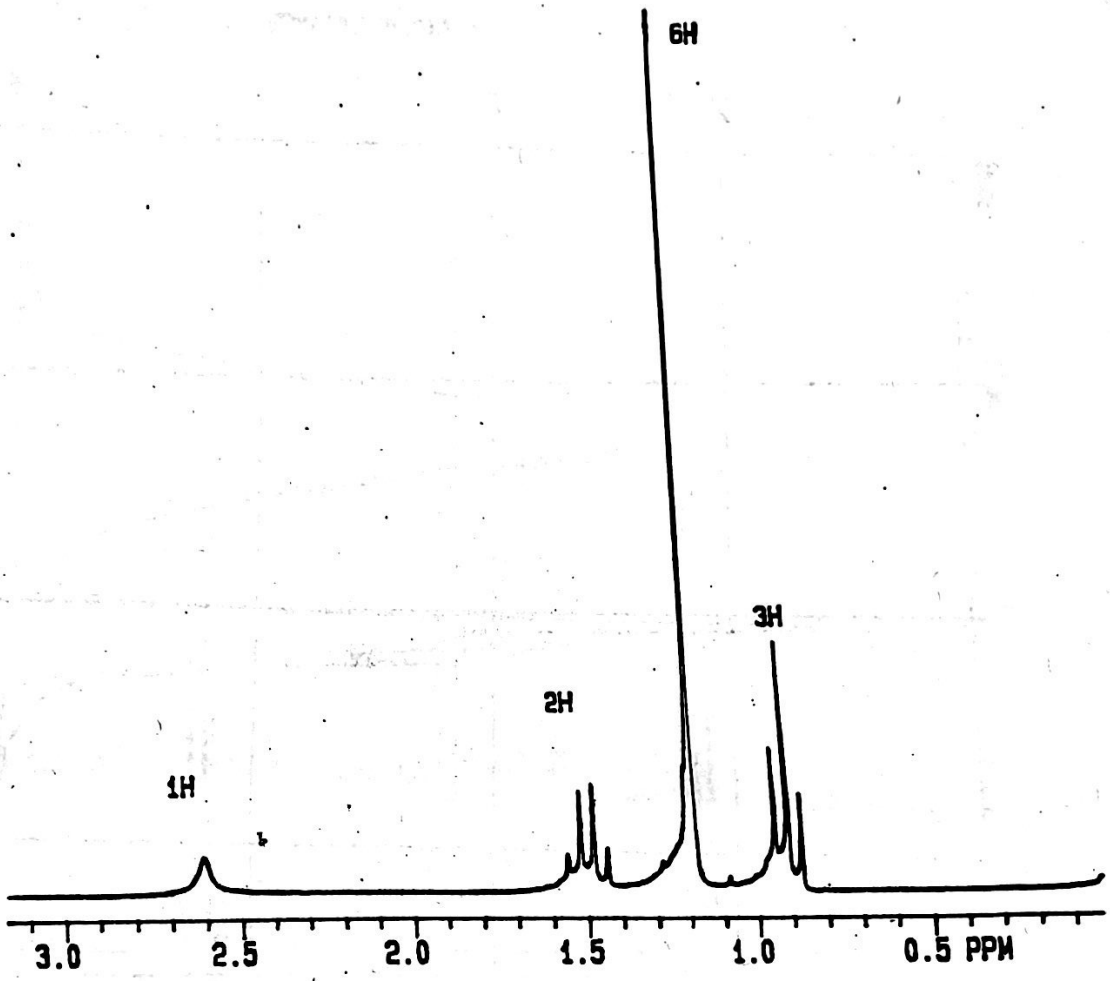
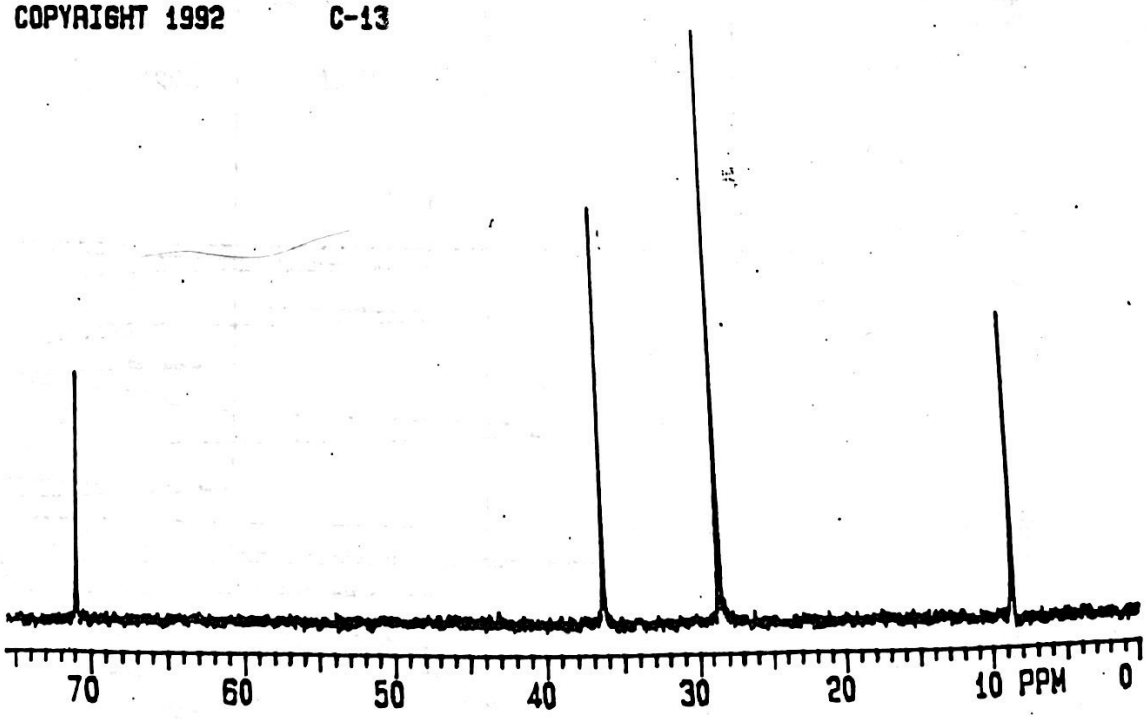
- Work Independently
- Work out each molecular structure on a separate paper and then transcribe you finished answer on the actual give spectra.
- A molecular formula, $^{1}H$- and $^{13}C$ NMR for a give molecule is given on each individual page.
- List the Important IR-Bands used to Confirm your listed structure!
- Assign the major functional groups to appropriate bands in the IR Spectra.
- Write the Structural Formula above both the $^{1}H$- NMR and $^{13}C$-NMR Spectra.
- Assign each set of NMR peaks to your structure using a-, b-, c-, … on your both your structural formula and the corresponding peaks in the NMRs.
- Assigned the $^{1}H$-NMR splitting pattern multiplicity for each set of peaks.

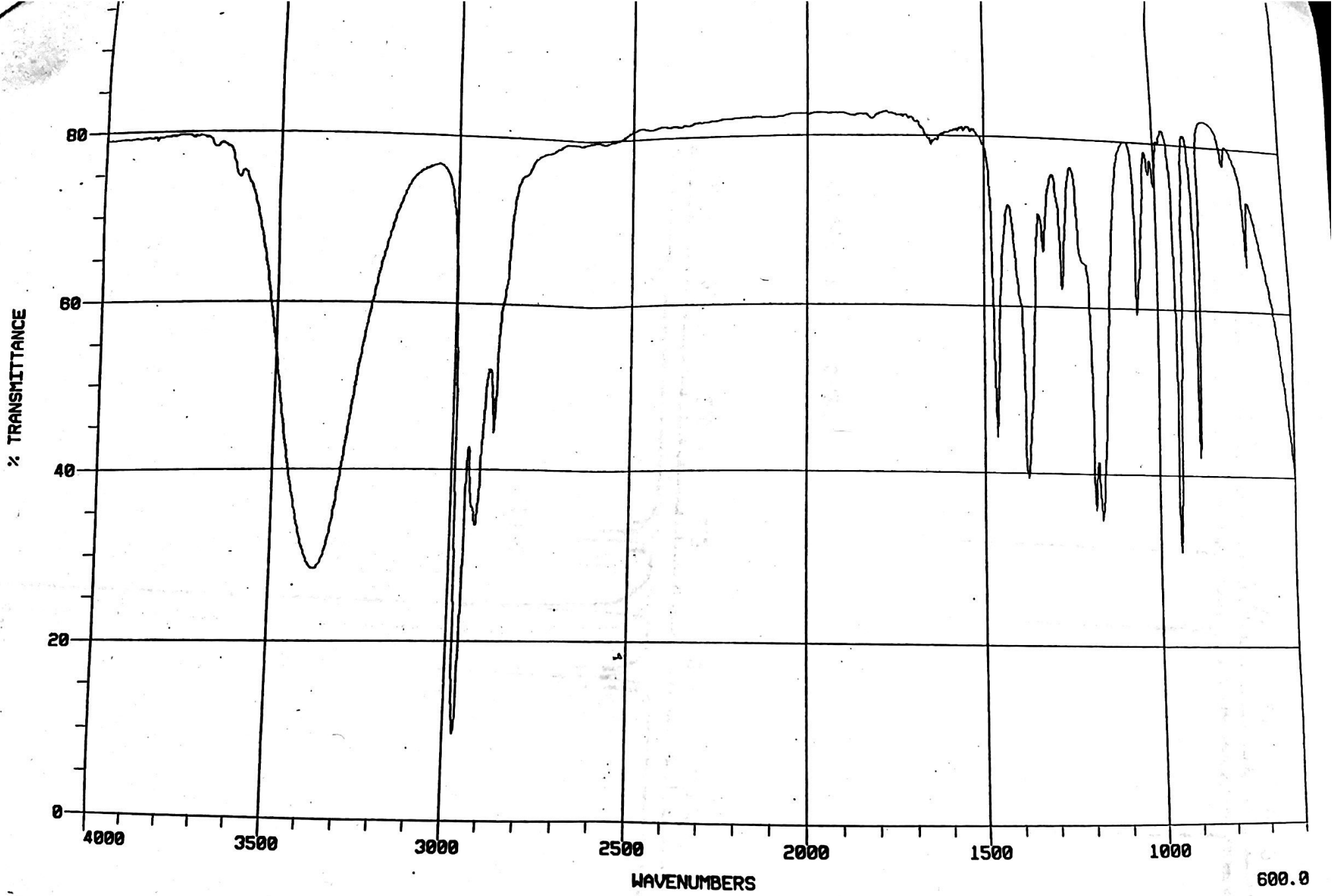
- A similar question will appear on the Last Test!

I(8) $C_5H_{12}O$




 C-13

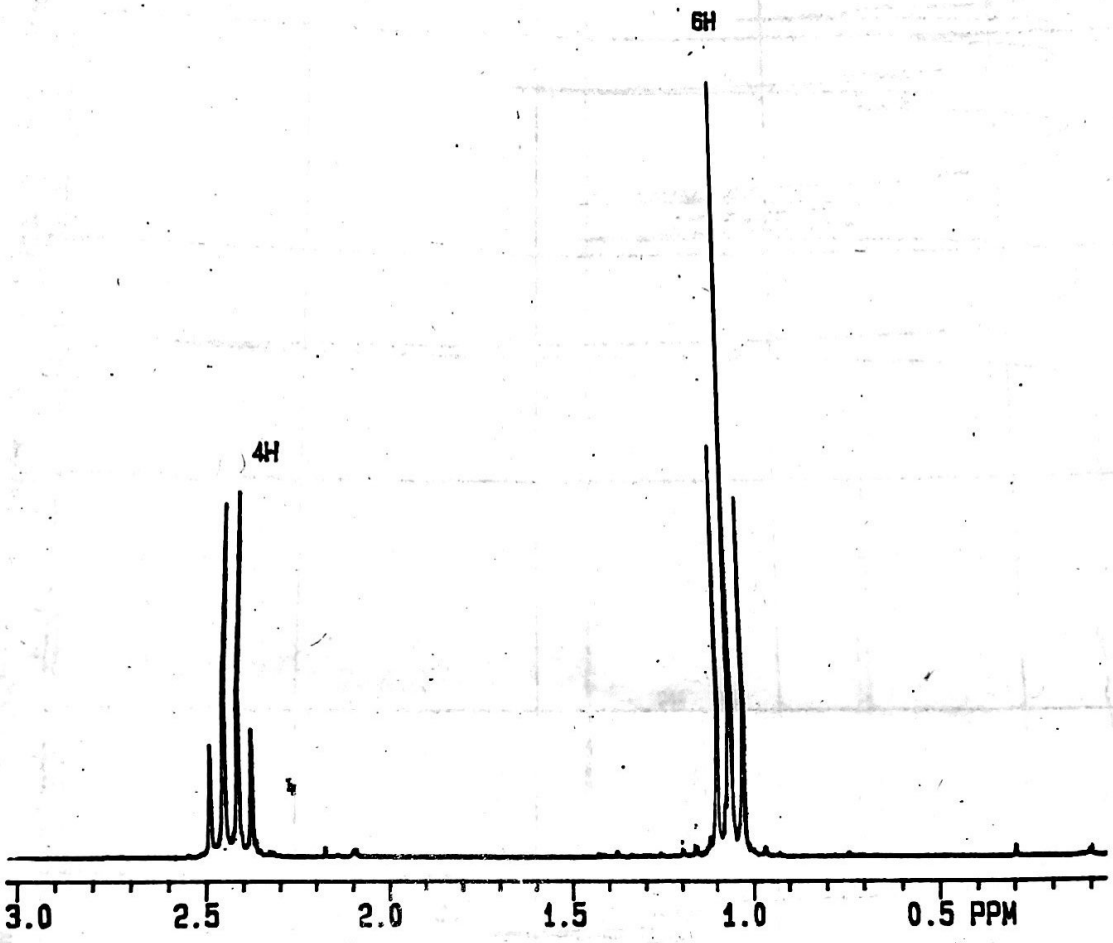


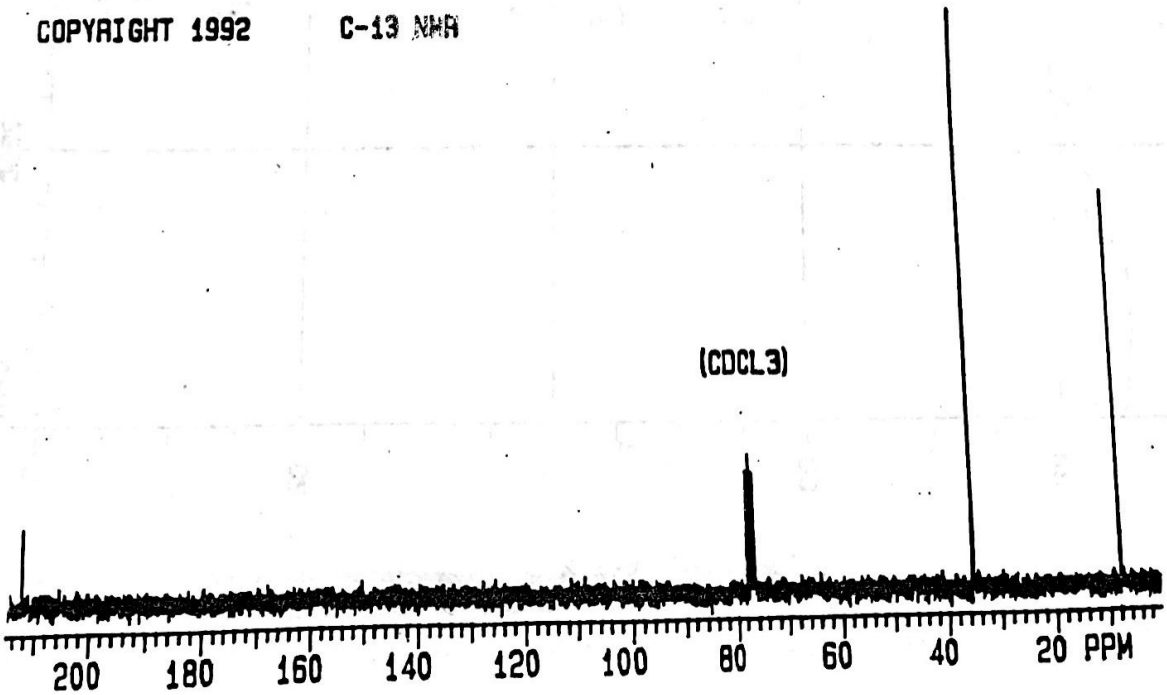


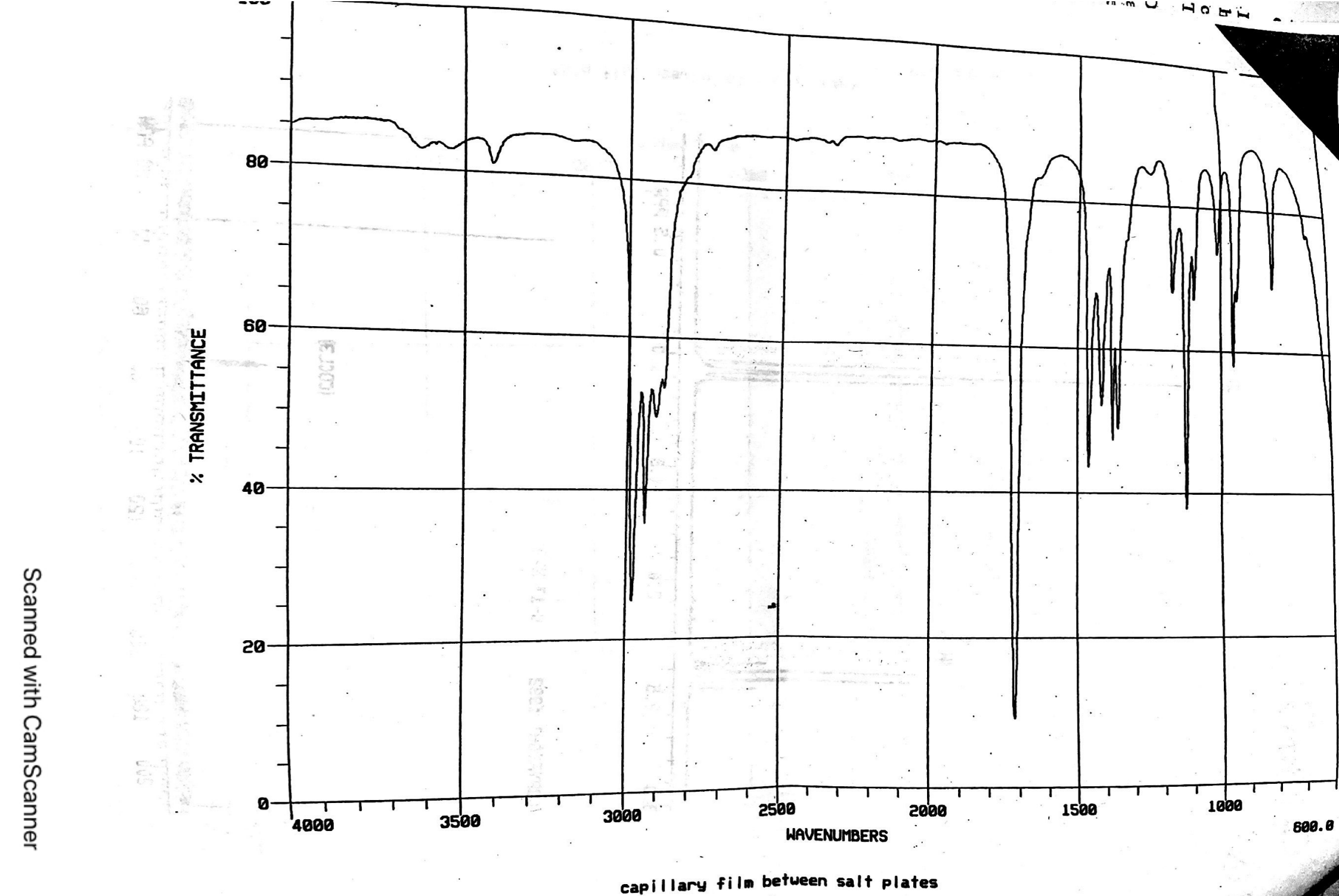

capillary film between salt plates

$C_5H_{10}O$

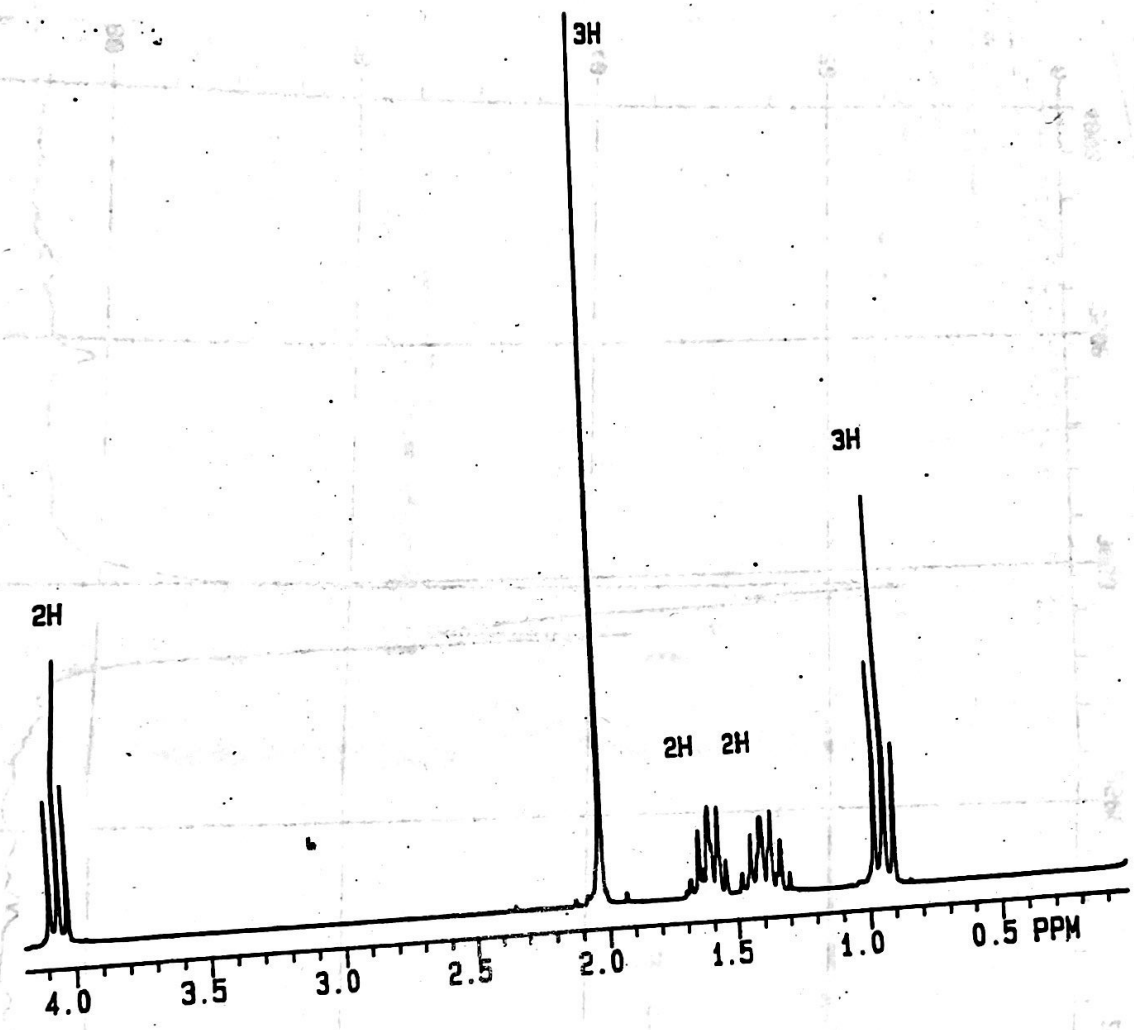
II (A)

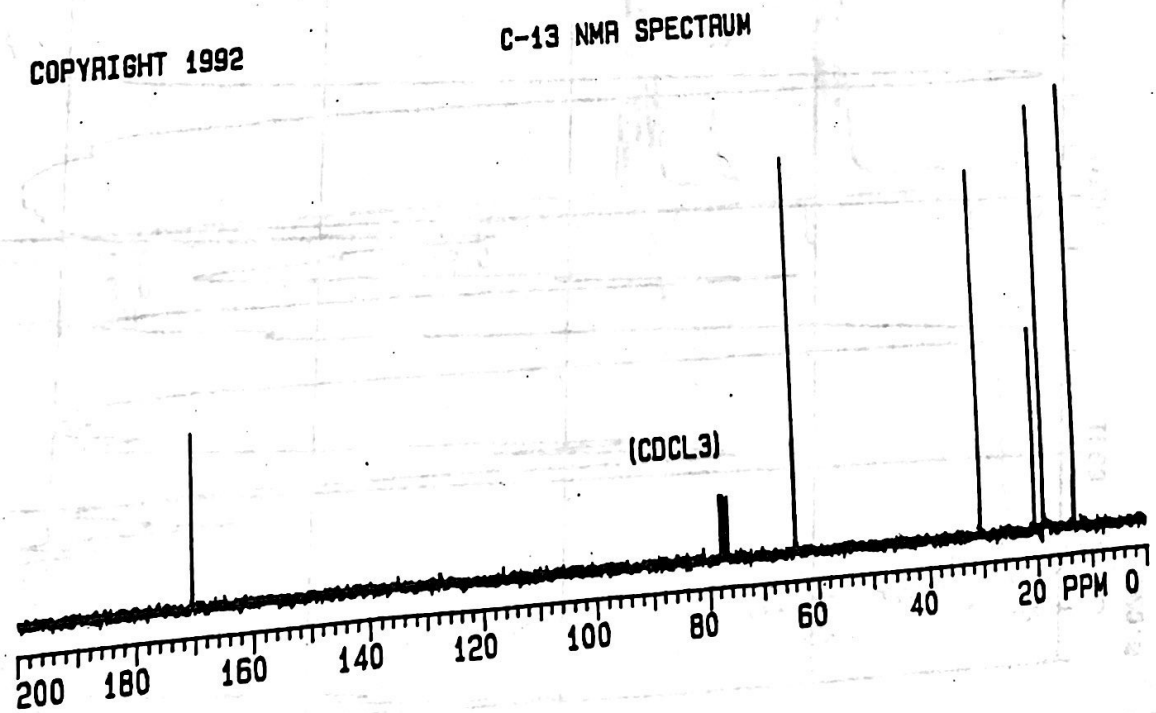


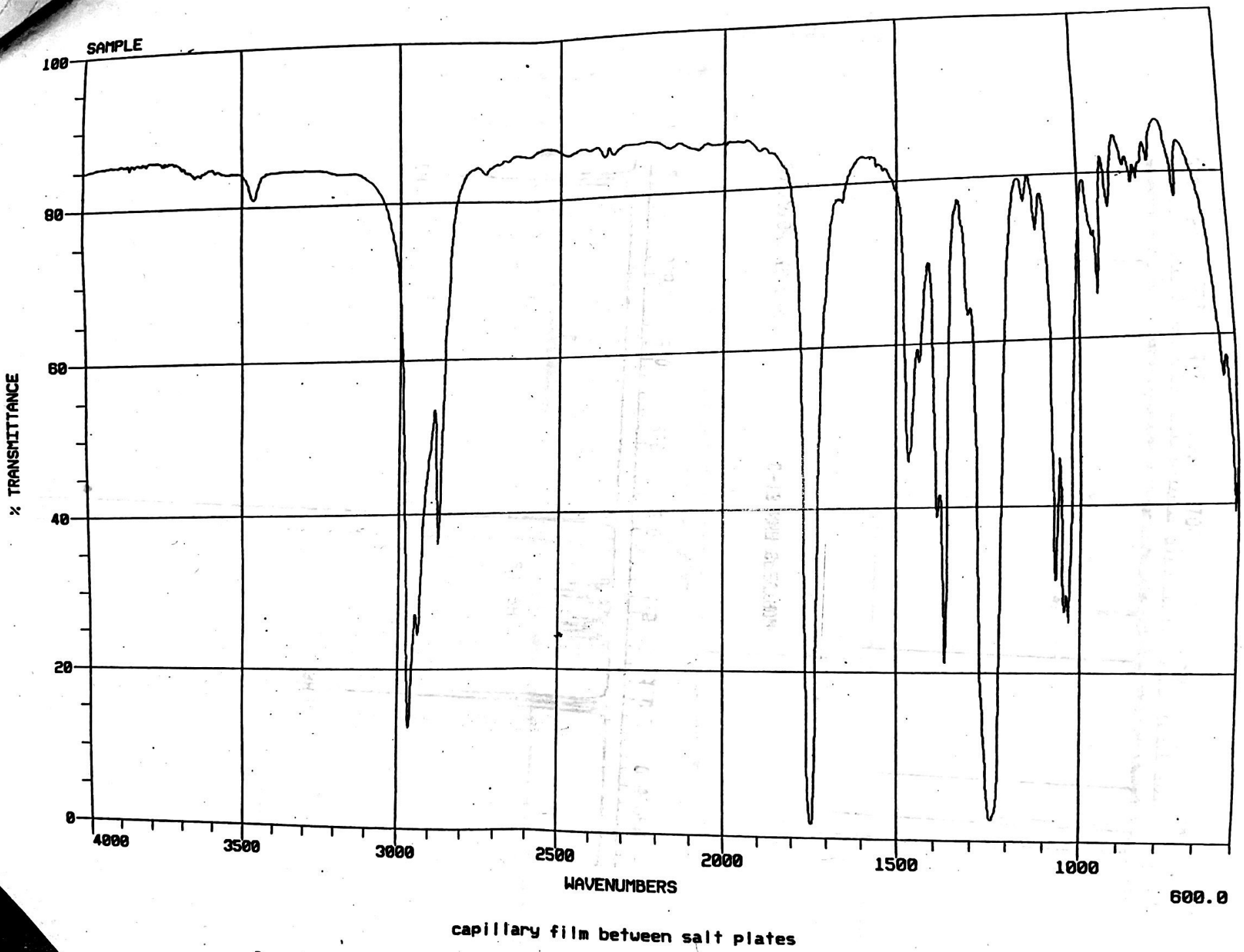





(B) $C_6H_{12}O_2$



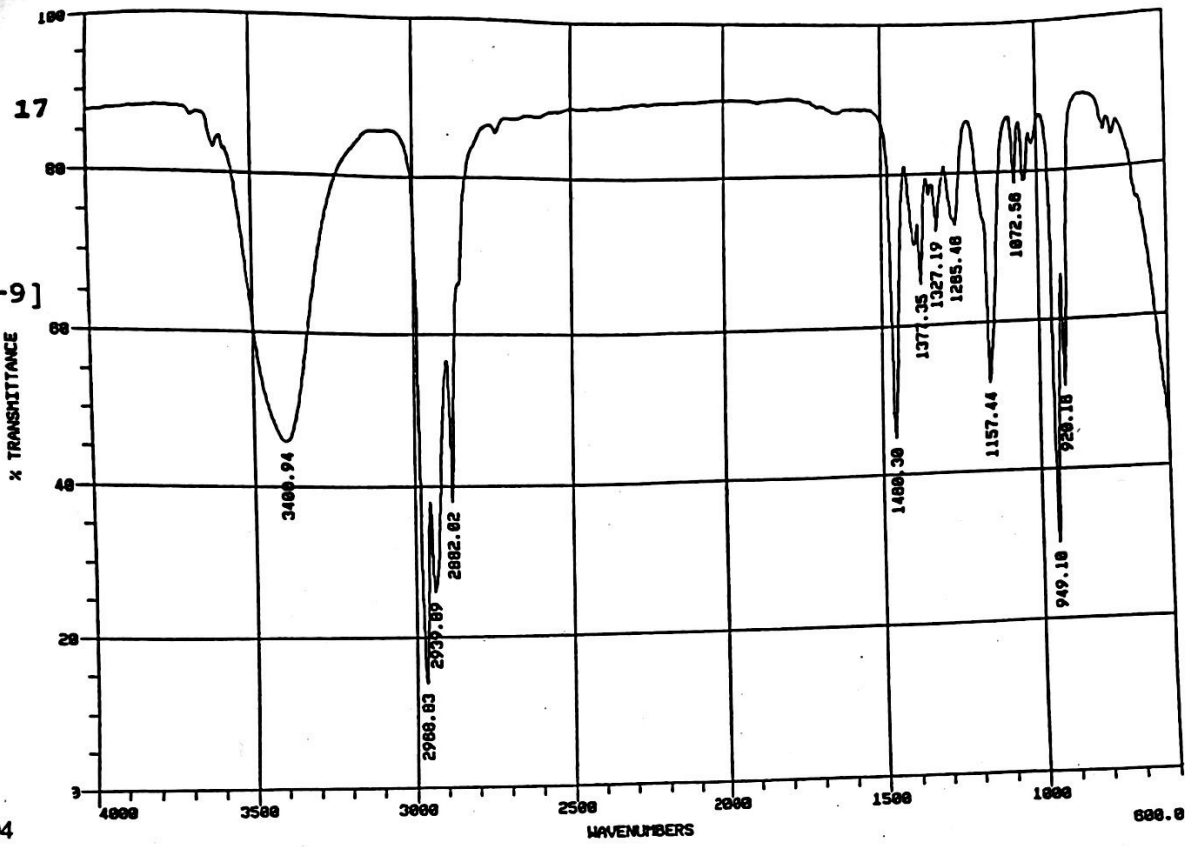


PROBLEM 17

MW 116

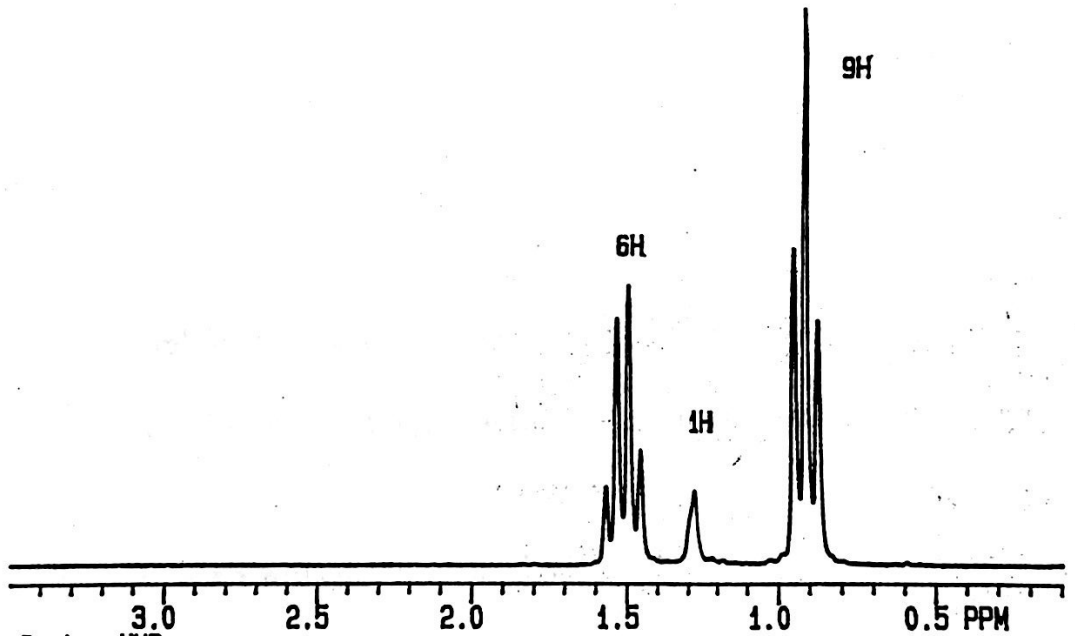
%C 72.3
%H 13.9
[597-49-9]

IV

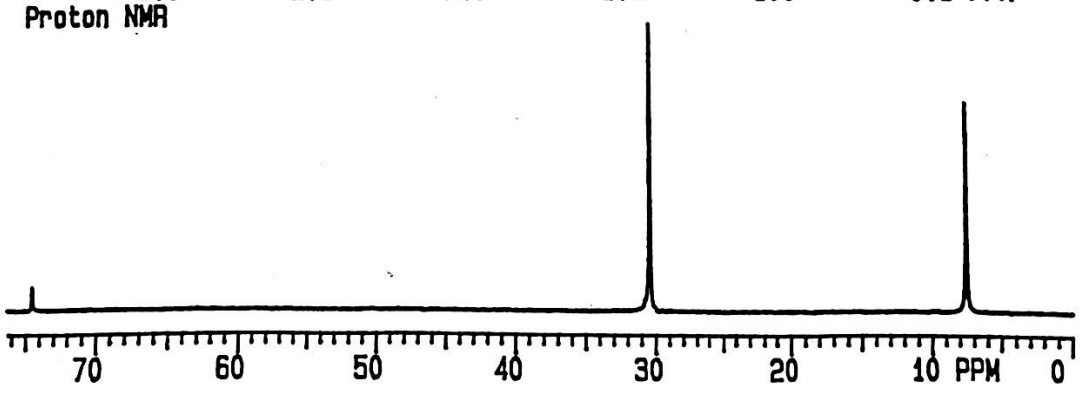





8




Proton NMR




Carbon 13 NMR