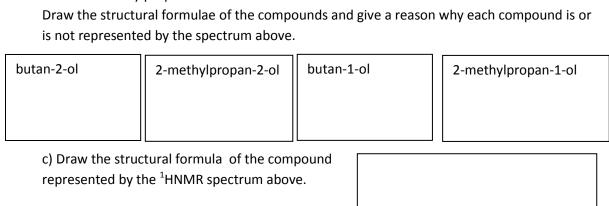
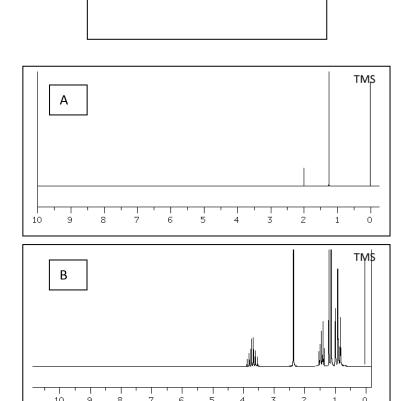
Lesson 3 ¹HNMR

- A compound has the molecular formula C₄H₁₀O Its ¹HNMR spectrum is shown on the right. Students were given this information and asked to identify the compound.
 - a) How many non-equivalent hydrogens exist.
 - b) A student offered the following possible compounds.
 - i. butan-2-ol
 - ii. 2-methylpropan-1-ol
 - iii. 1-butanol
 - iv. 2-methylpropan-2-ol



2) The two spectra below, belong to two of the compounds listed above. Identify the compounds



TMS

3

	ne possible splitting patterns in their relative order ea under each peak for each spectrum.	r to form a
a) 1-bromoethane		TMS
b) 1-chloropropane		TMS
c) 1,1,2-trichloroethane d) 2-methyl-1-propanol		TMS
		TMS
		TMS
e) methyl ethnoate		