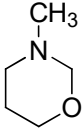
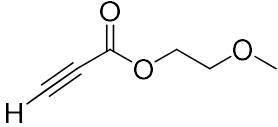
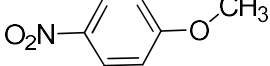


Exercise problems from Lecture 19:

Q1. Match the following compounds with their correct values.

$\text{CH}_3\text{CH}_2\text{Br}$	$\delta = 4.30 \text{ ppm}$
$\text{CH}_3\text{CH}_2\text{I}$	$\delta = 3.05 \text{ ppm}$
$\text{CH}_3\text{CH}_2\text{Cl}$	$\delta = 2.10 \text{ ppm}$
$\text{CH}_3\text{CH}_2\text{F}$	$\delta = 2.70 \text{ ppm}$

2. Complete the following table

Compound	No of ^1H -NMR signals	Label the most shielded and de-shielded protons
		
		
		

Q3. Why terminal alkyne (SP) proton is more shielded than alkene protons (SP²)?

Q4. Complete the following table

Compound	No of ^1H -NMR signals	Write the multiplicity of peaks (singlet, doublet, triplet etc.)
