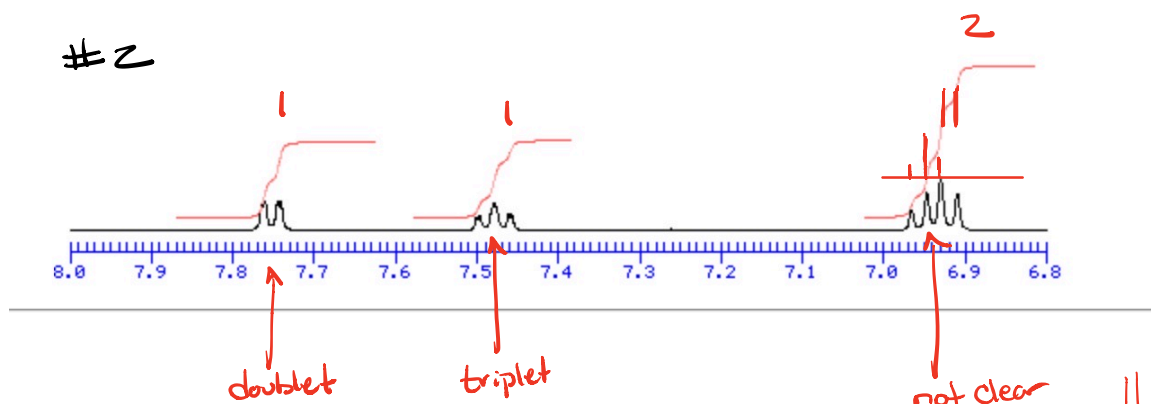


Question about Aromatic Zone - Substitution pattern

#s 2, 5, 6, 8, 9 on webspectra

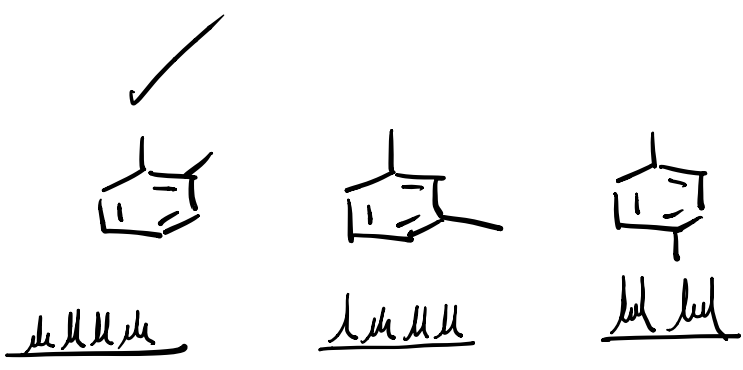


⇒ not quartet $\frac{1}{1331}$

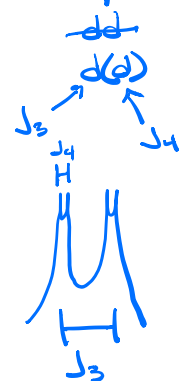
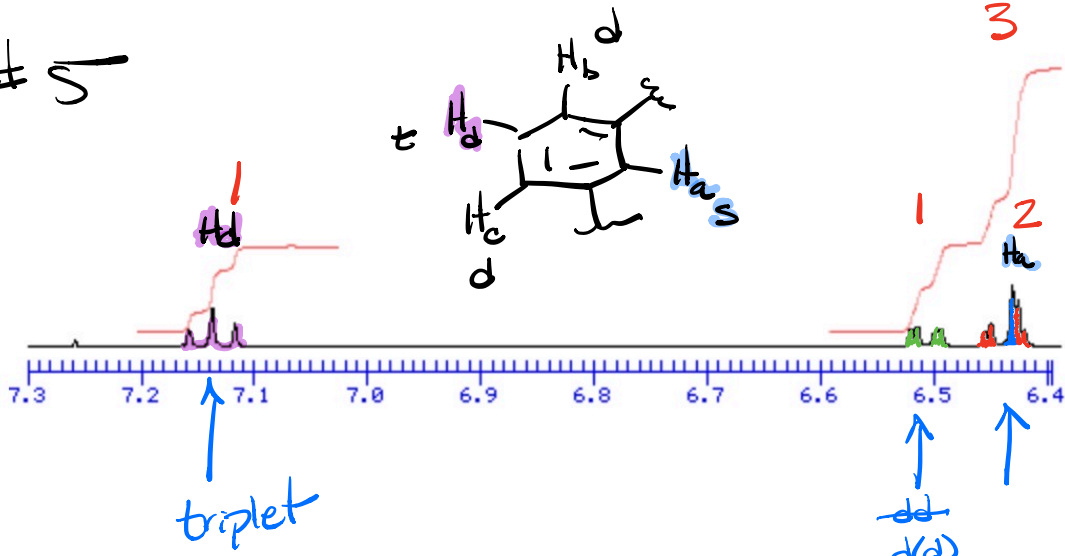
⇒ dd possible

= most likely

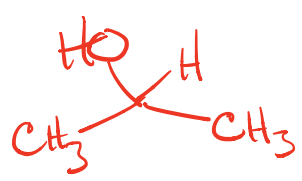
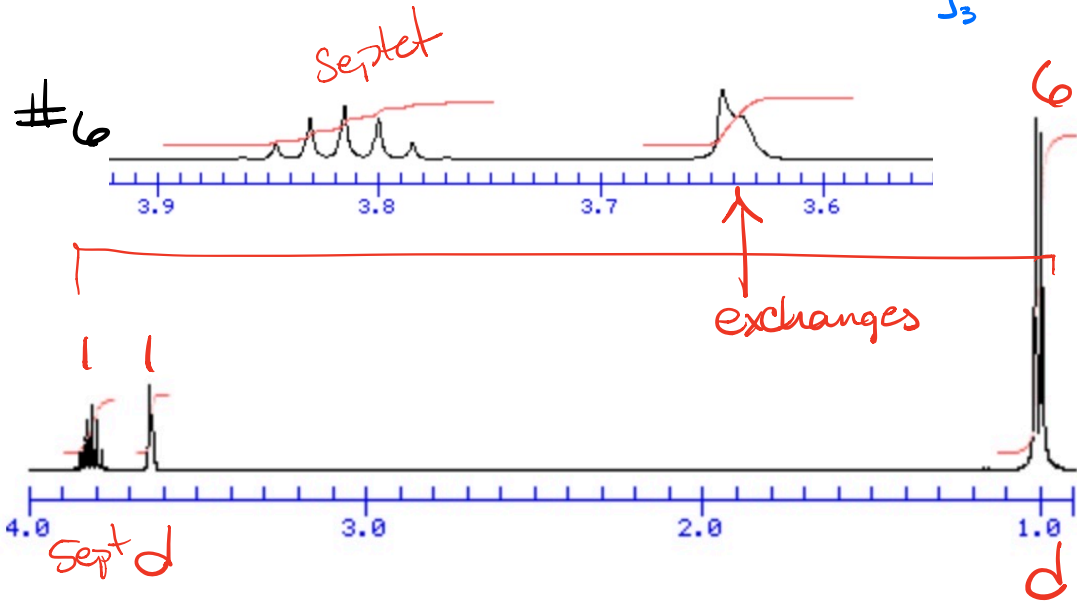
d & t overlap

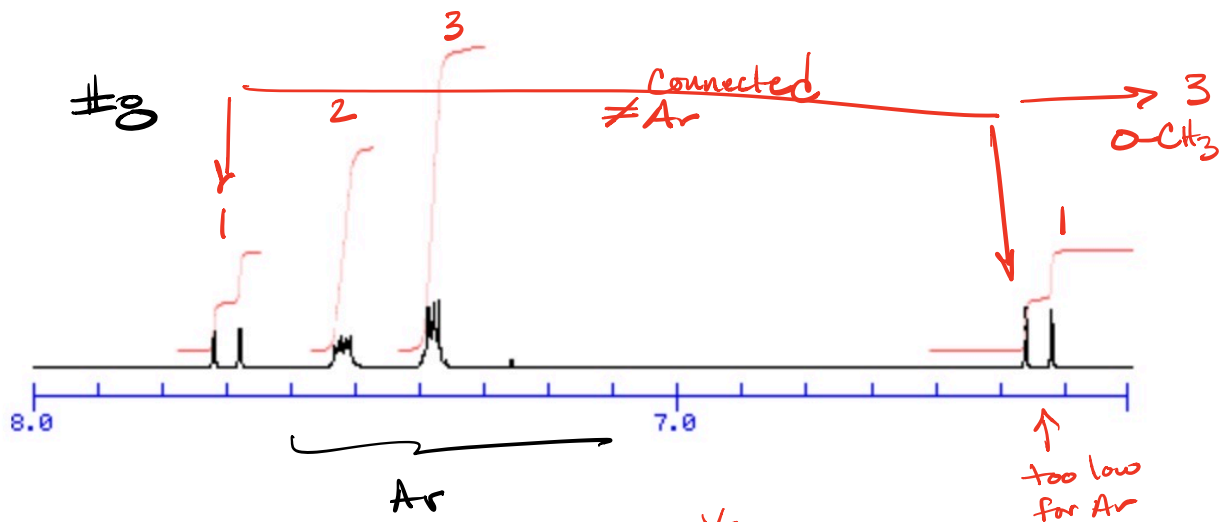


#5

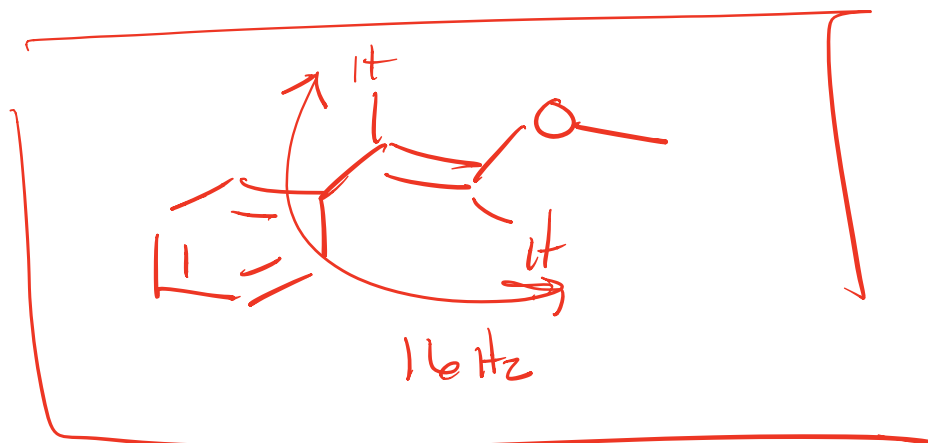
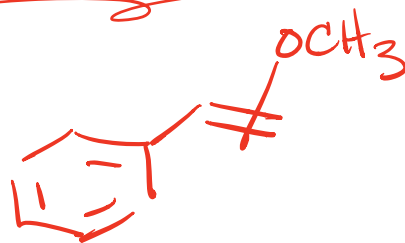
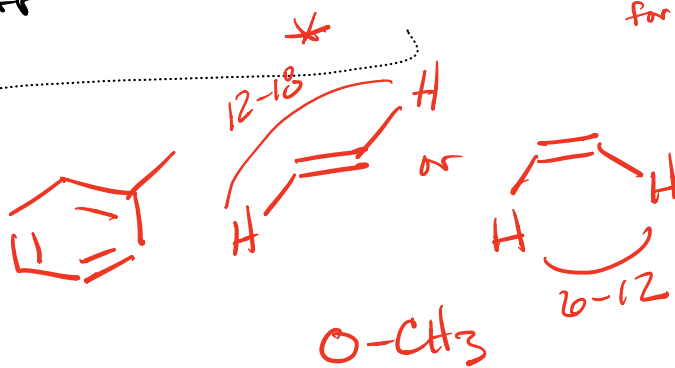


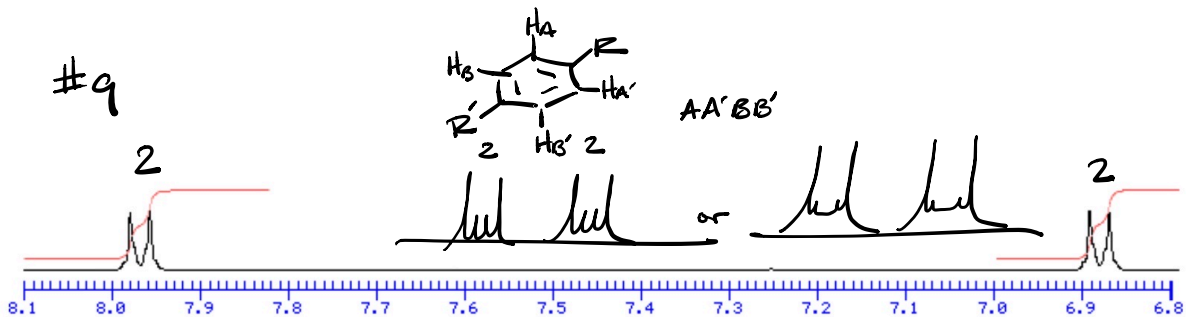
#6





J value = 16 Hz

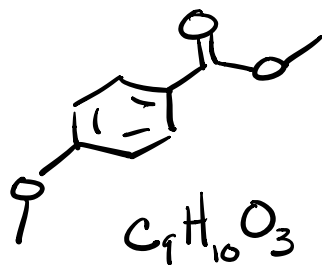
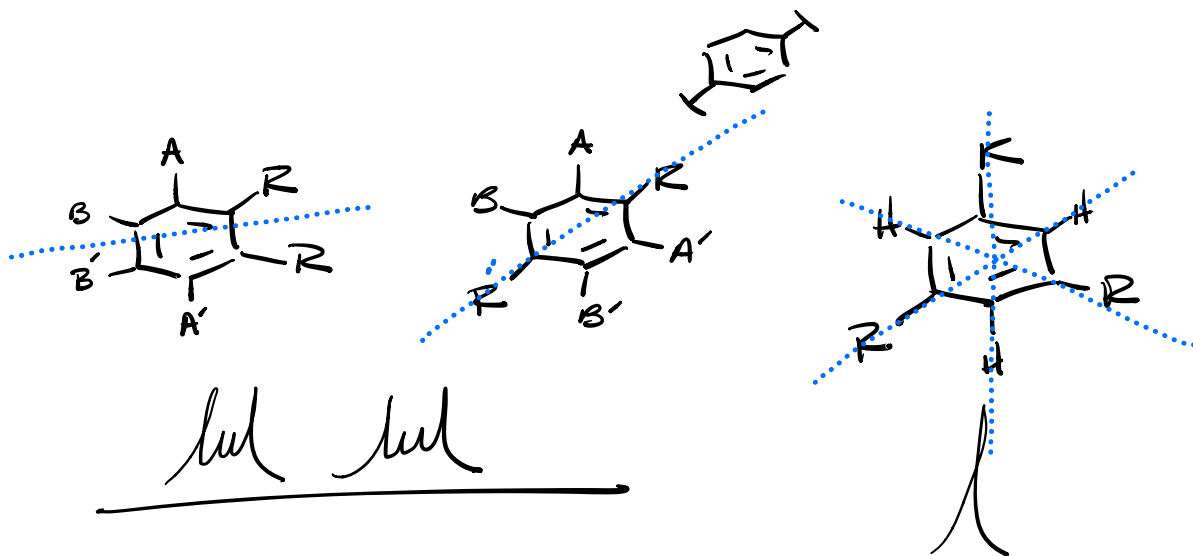




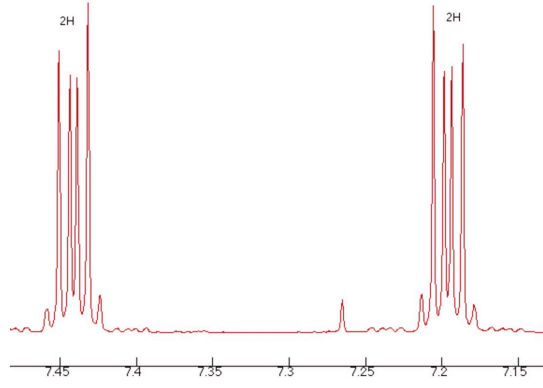
$C_9H_{10}O_3$

5 units of unsaturation

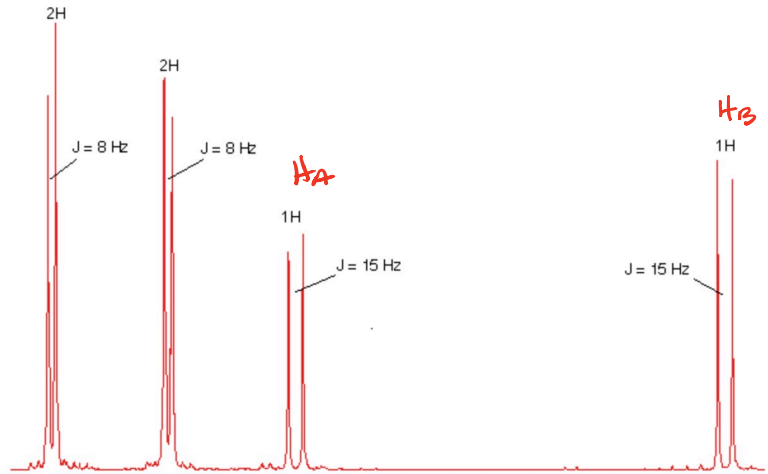
2x OCH_3



33

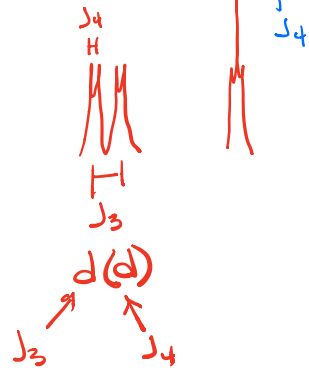
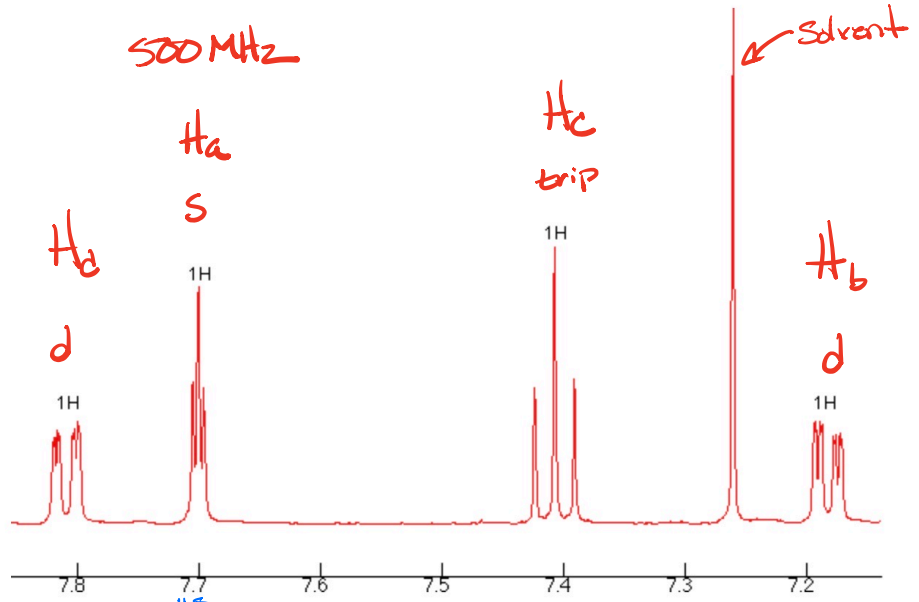
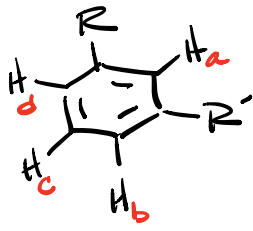


19

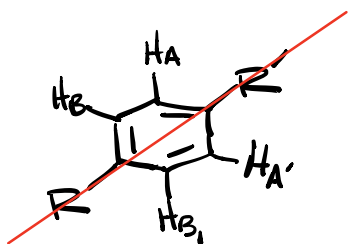


AA'BB'
Ar-H
System

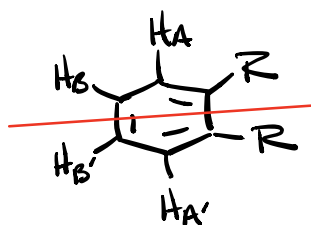
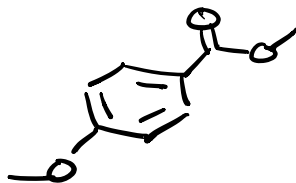




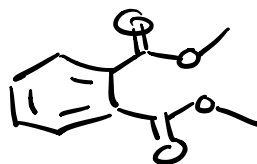
Two types of AA'BB' Systems

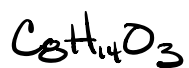


Example



Example



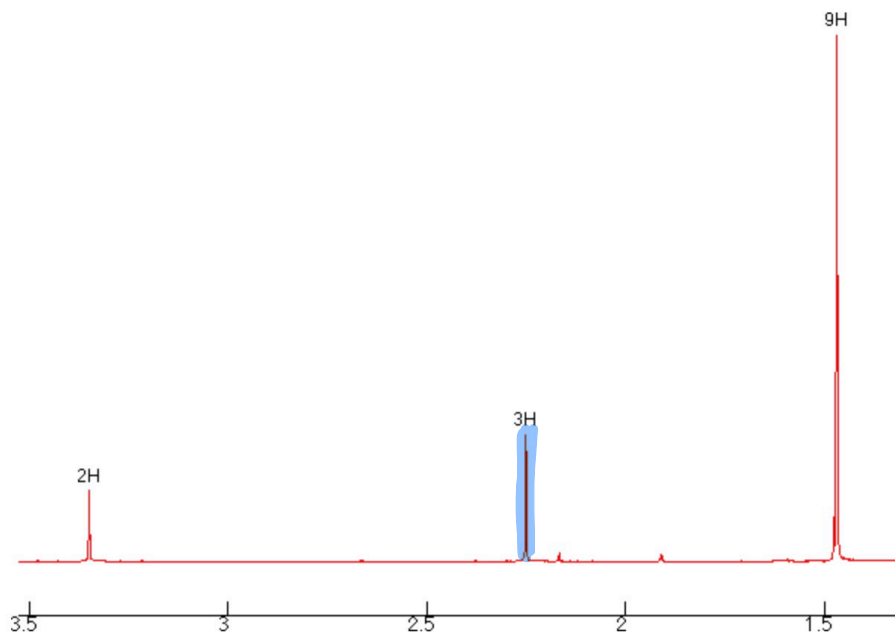


2 units of unsat

$$\begin{array}{r} 18 \\ -14 \\ \hline 24 \\ \hline 2 \text{ units} \end{array}$$

IR = Carbonyl
no alcohol

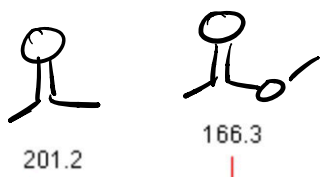
1H NMR



Click on the highlighted area to zoom. Click again to zoom back out.

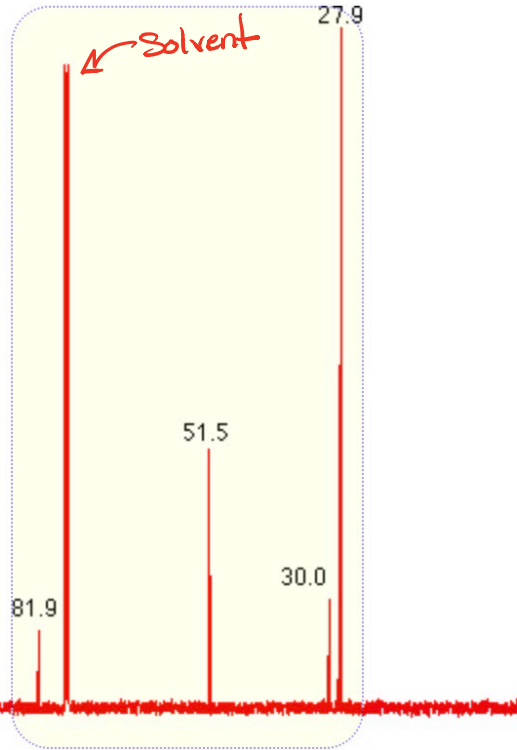
<u>ppm</u>	<u>Int</u>	<u>mult</u>	<u># of</u>	<u>assignment</u>
1.5	9H	S	\emptyset	3 x CH_3
2.3	3H	S	\emptyset	EWG- CH_3
3.3	2H	S	\emptyset	CH_2 -EWG

C-NMR



201.2

166.3



27.9

30.0

51.5

81.9

166.3

201.2

} alkyl

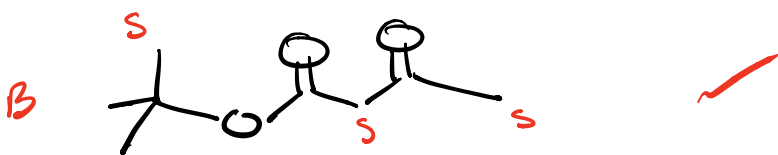
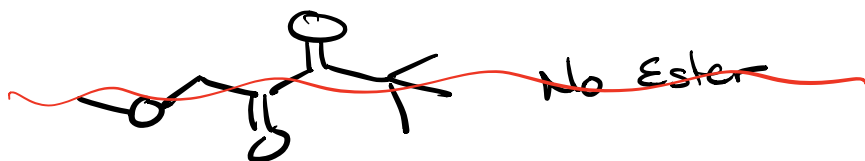
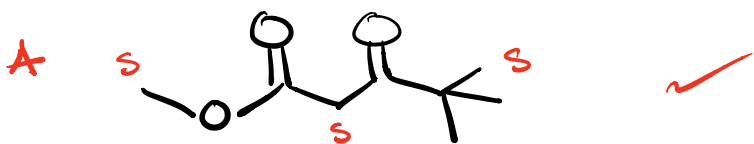
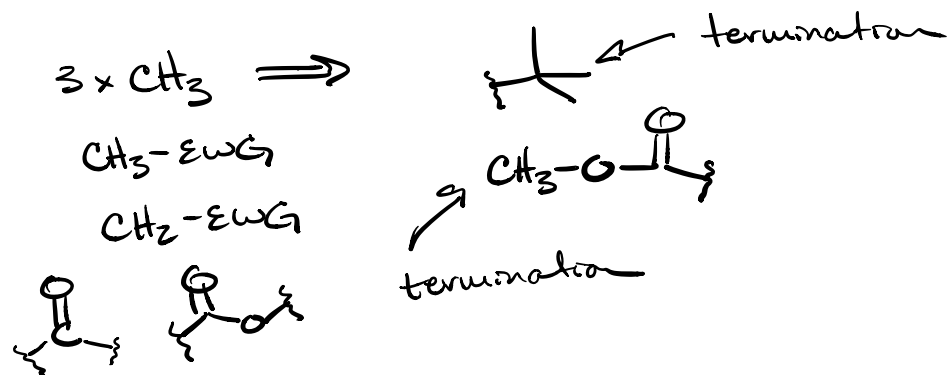
C=O

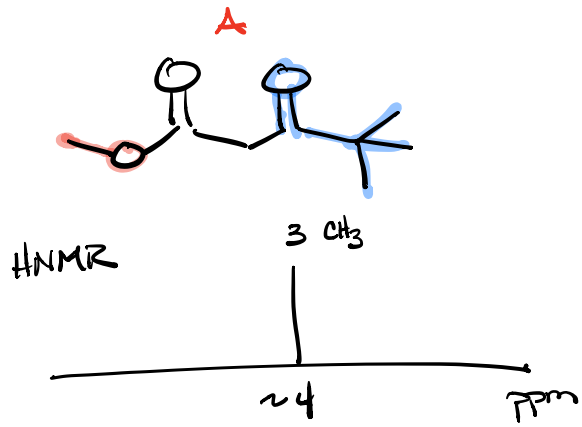
ketone



ester







vs

