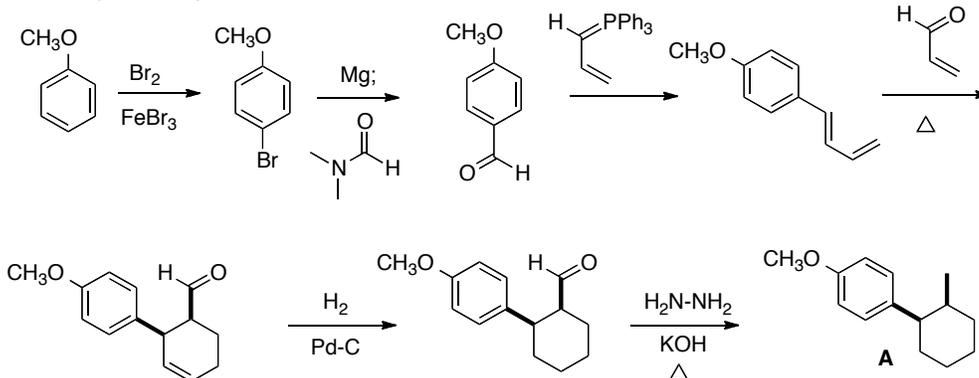
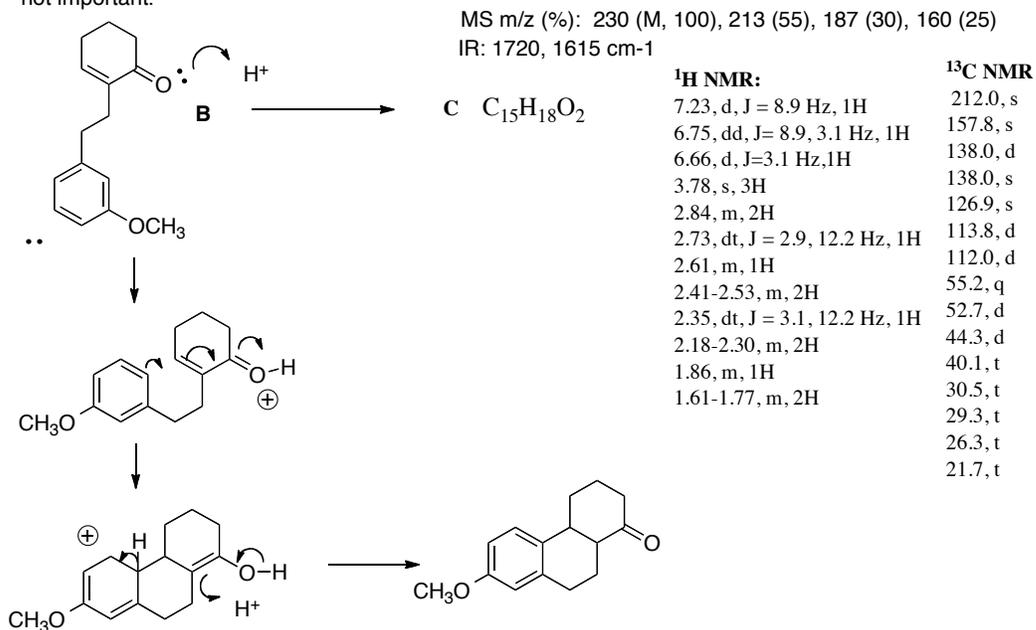


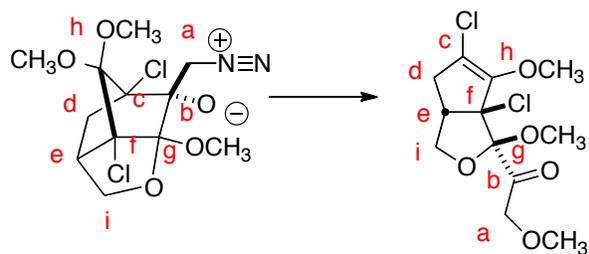
3. (20 points) Outline a synthesis of **A** using only starting materials that contribute three or fewer carbons to the final product, and a monosubstituted benzene that contributes seven or fewer carbons to the final product. Stereochemistry is not important.



4. (20 points) Deduce the structure of **C**, and draw an arrow-pushing mechanism for its formation. Stereochemistry is not important.



5. (20 points) Draw the letters on the product where they belong. Make a list of bonds formed and bonds broken, and draw the mechanism in detail.



bb	bf
a-N2	a-OCH3
b-c	b-O
h-OCH3	c-h

