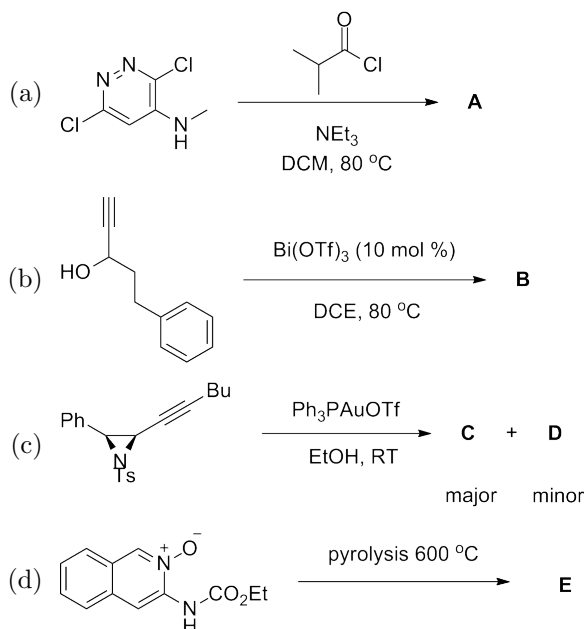
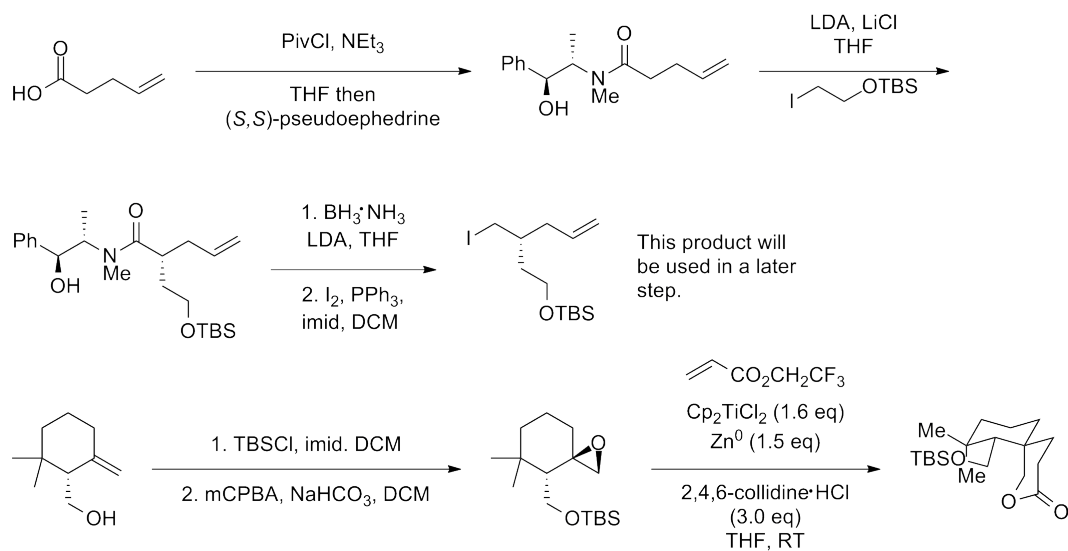


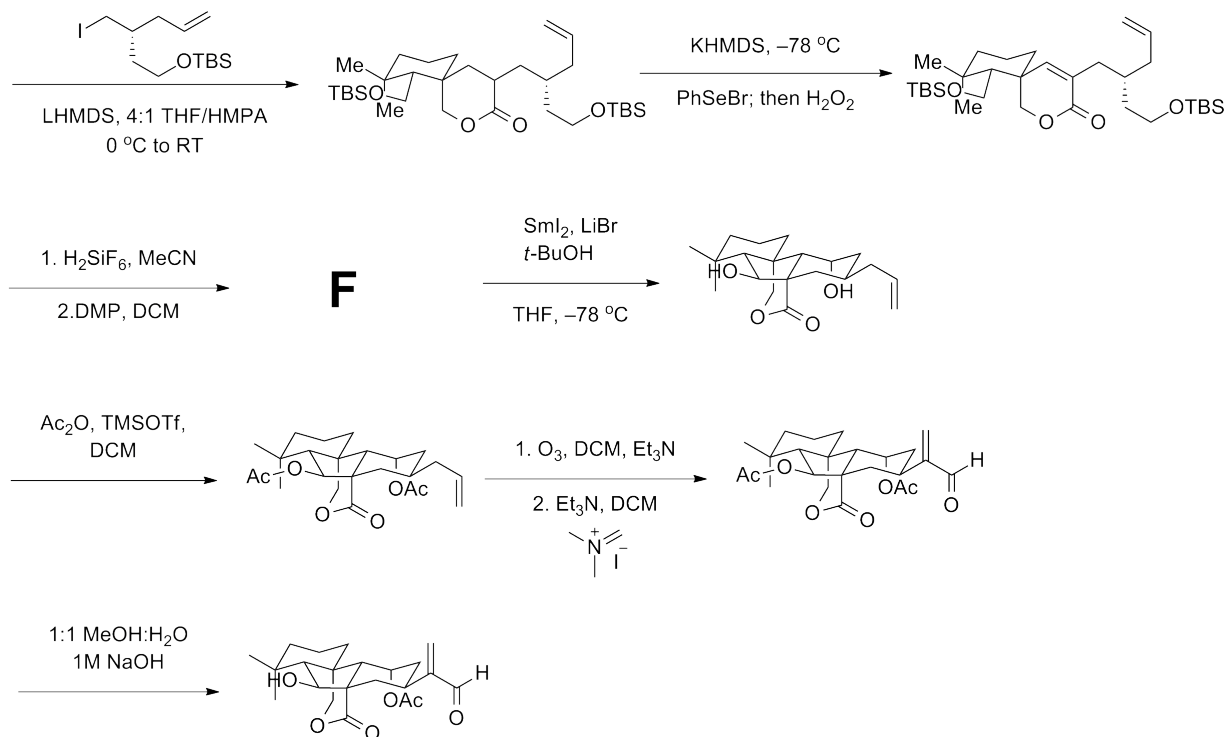
Problems—10 February 2015

1. With mechanistic reasoning please give the structure of the following compounds **A**, **B**, **C**, **D**, and **E**.



2. The following question concerns the total synthesis of a natural product. Please give the mechanisms for each step rationalising the stereochemistry and selectivity, and identify the intermediate **F**.





3. Rationalise the following observations.

