1. Total synthesis of hinesol...

2. Account for the following sequence. Provide a detailed mechanism for the fragmentation, paying particular attention to stereochemistry and to providing an accurate stereochemical rendering.

   [a] CH$_3$SO$_2$Cl, pyr
   [b] BH$_3$, THF
   [c] NaOH


3. Draw the product of a thermally promoted [1,3]C~ si of syn-7-methylbicyclo[2.2.1]hep-2-ene. Do the same for the "sr" mode. Formulate a cyclic array for each. Which corresponds to a Möbius array? Which is allowed?