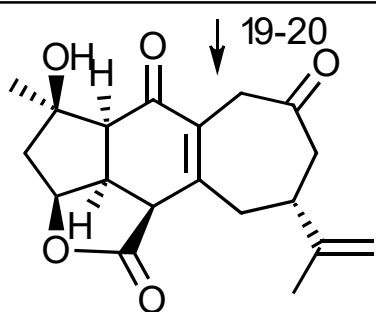
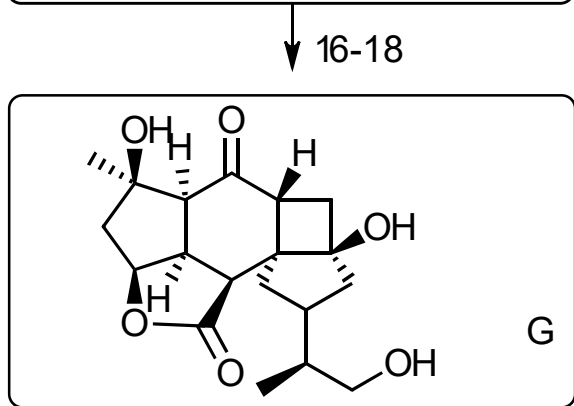
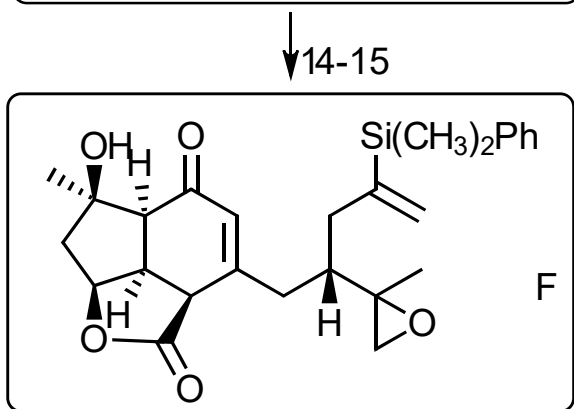
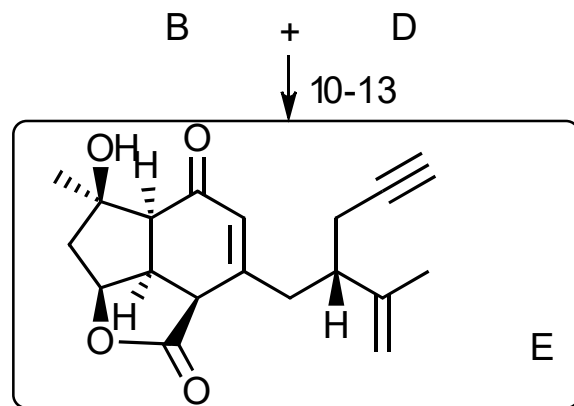


- 1) VinylMgBr, Cu*Br, TMSCl, HMPA/THF
- 2) LiTMP, TESCl, THF -78°C
- 3) DDQ, HMDS, PhMe, 23°C
- 4) NaBH₄, CeCl₃*7H₂O, MeOH, -78°C
- 5) TBAF, THF, 60°C

- 6) Br₂CHPPh₃Br, *t*BuOK, THF
- 7) *n*-BuLi, THF, -78°C, then TMSCl, then HCl, H₂O/THF/dioxane
- 8) CBr₄, PPh₃, CH₂Cl₂, 0°C
- 9) *n*-BuLi, THF, -78°C, then CO₂, -78°C, then TBAF

Please, provide a synthesis of C

from (R)-Carvone,
Org. Lett. **2012**, *14*, 2834



- 10) DIC, DMAP, CH₂Cl₂, 0°C
 11) 140°C, xylenes
 12) VO(acac)₂, TBHP, CH₂Cl₂/PhH
 13) Cp₂TiCl₂, Mn⁰, collidine*HCl, 1,4-cyclohexadiene, THF, 23°C
 13b) IBX, MeCN
- 14) *m*-CPBA, CH₂Cl₂, 0 to 23°C
 15) Ph(CH₃)₂SiH, [RuCp*(MeCN)₃]PF₆
- 16) *hν* (350 nm), PhH, 23°C
 17) TiCp₂Cl₂, Mn⁰, collidine*HCl, 1,4-CHD, THF, 23°C
 18) Hg(OAc)₂, AcOOH/AcOH, 23°C
- 19) *o*-NO₂PhSeCN, *n*-Bu₃P, THF, 23°C, then H₂O₂, 0 to 23°C
 20) CuI, NIS, PhMe, 90°C