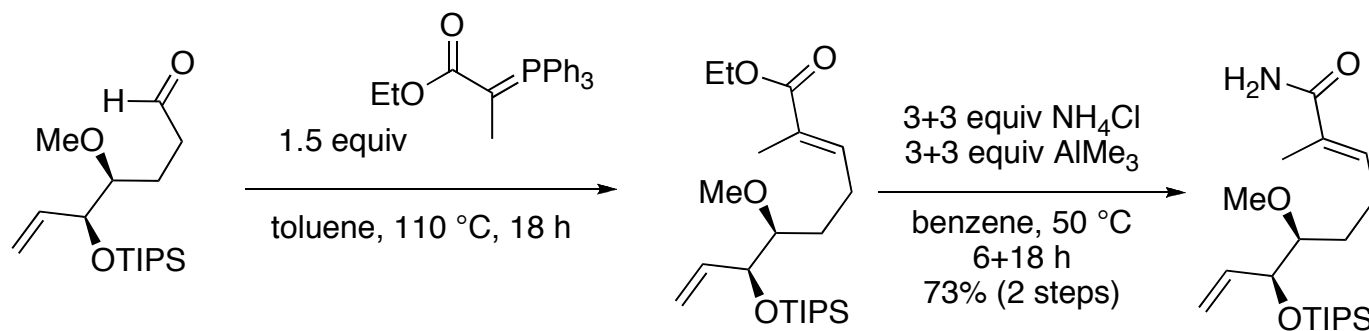
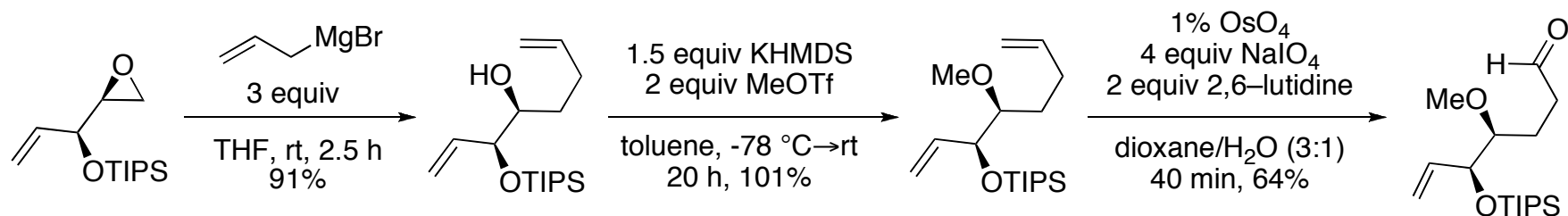
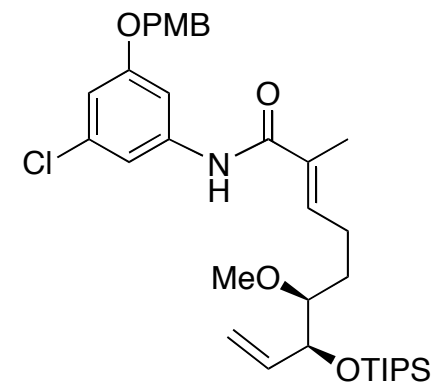


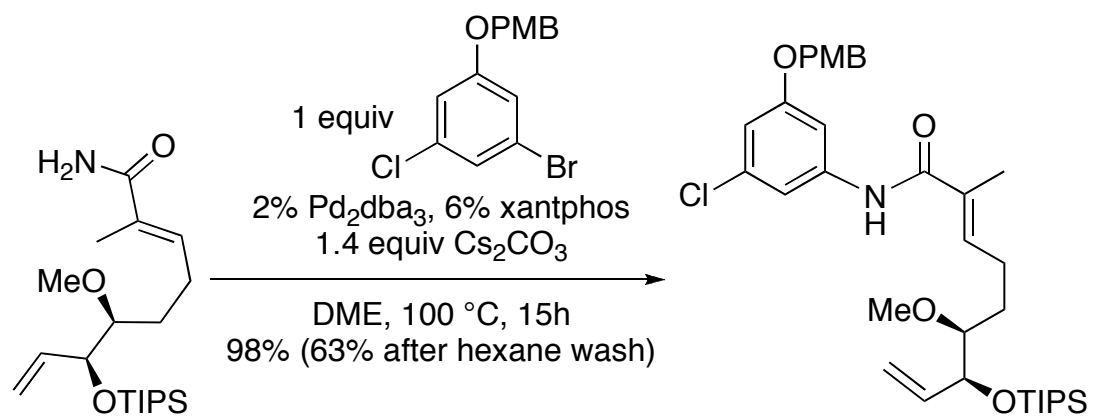
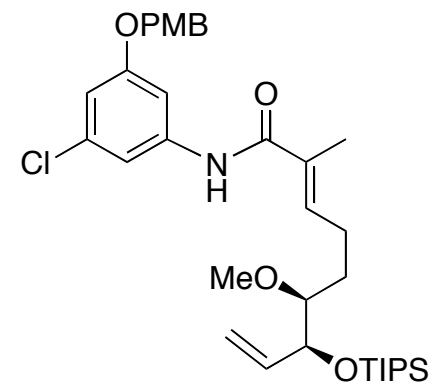
Group Meeting 04/13/09  
Monica Norberg

## Demethylated Amide

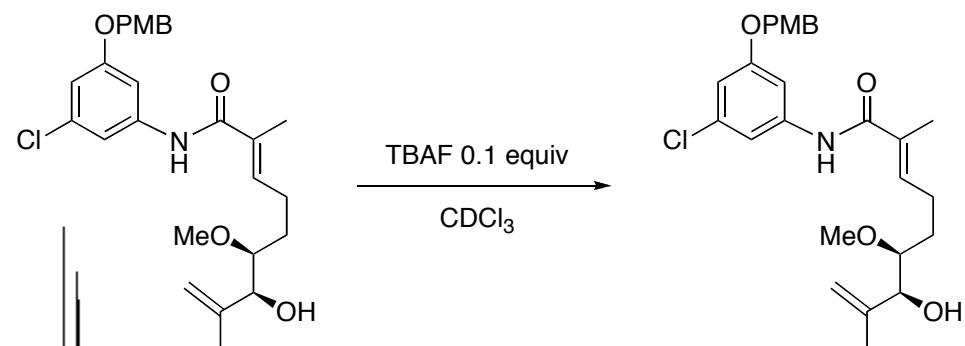


E/Z ratio not defined

## Demethylated Amide

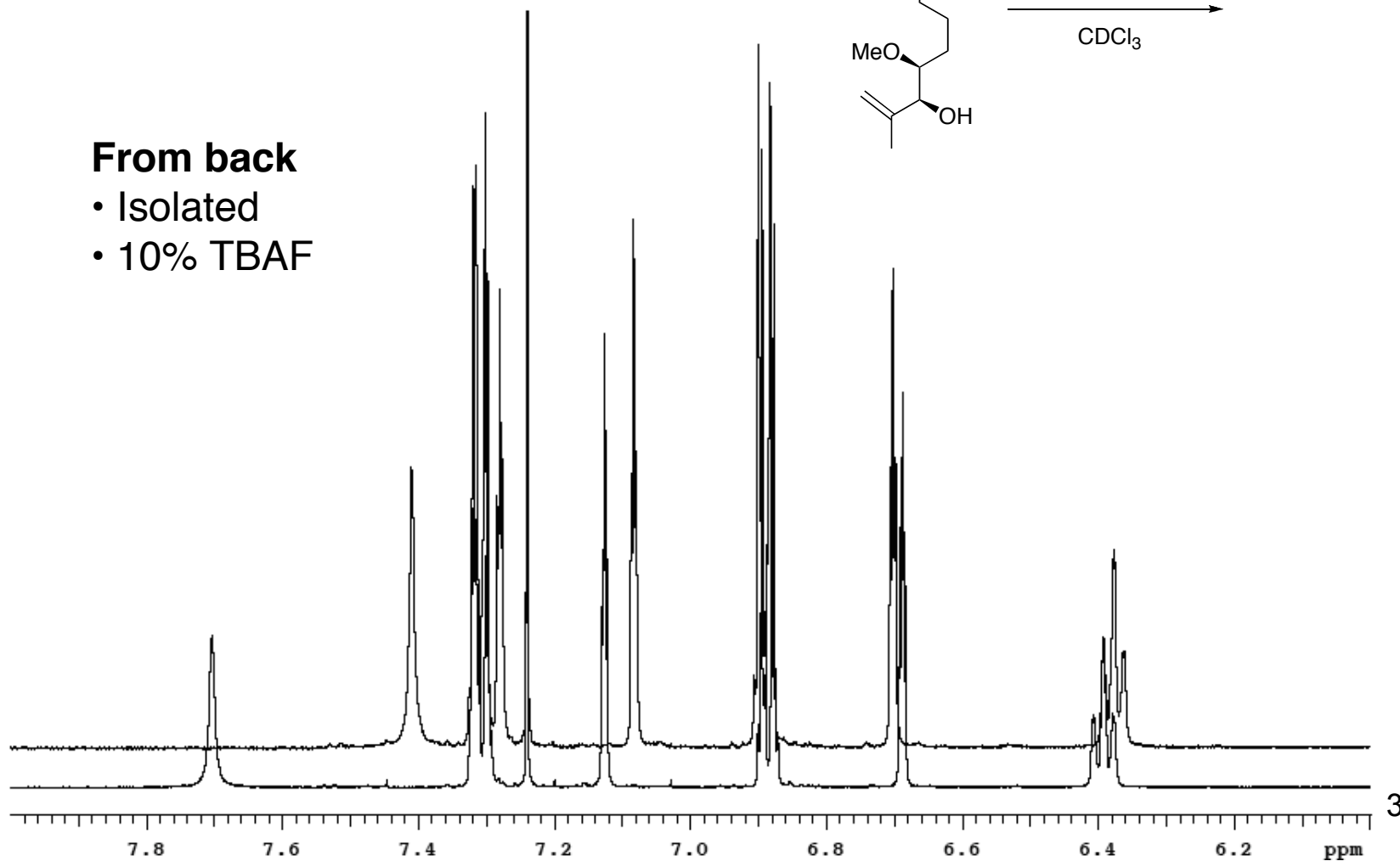


# TBAF Addition - H<sup>1</sup> NMR Experiment

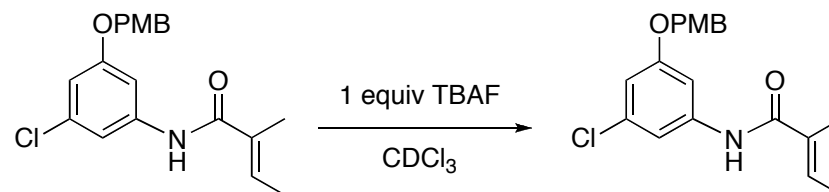


**From back**

- Isolated
- 10% TBAF

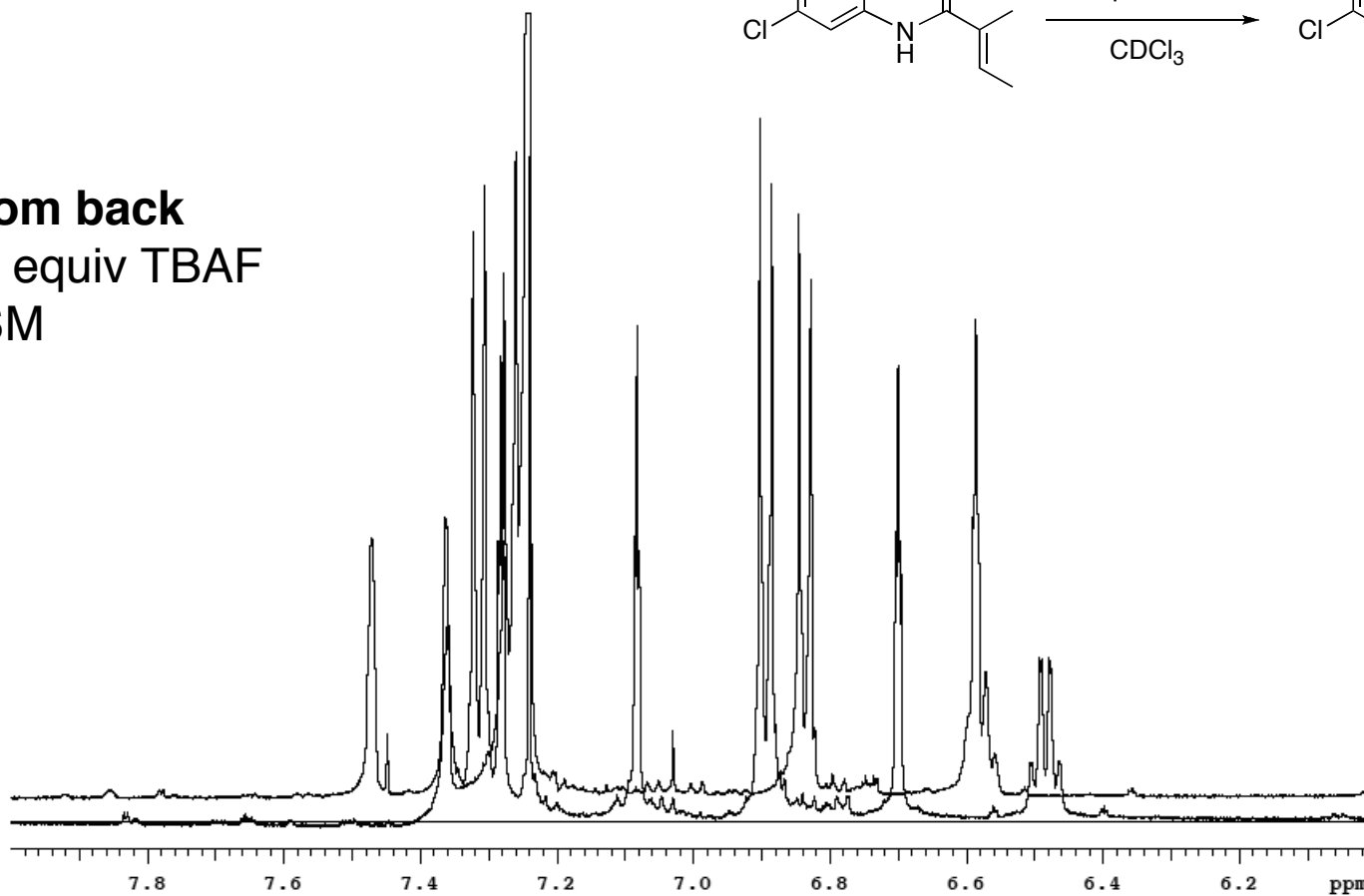


# TBAF Addition - $H^1$ NMR Experiment



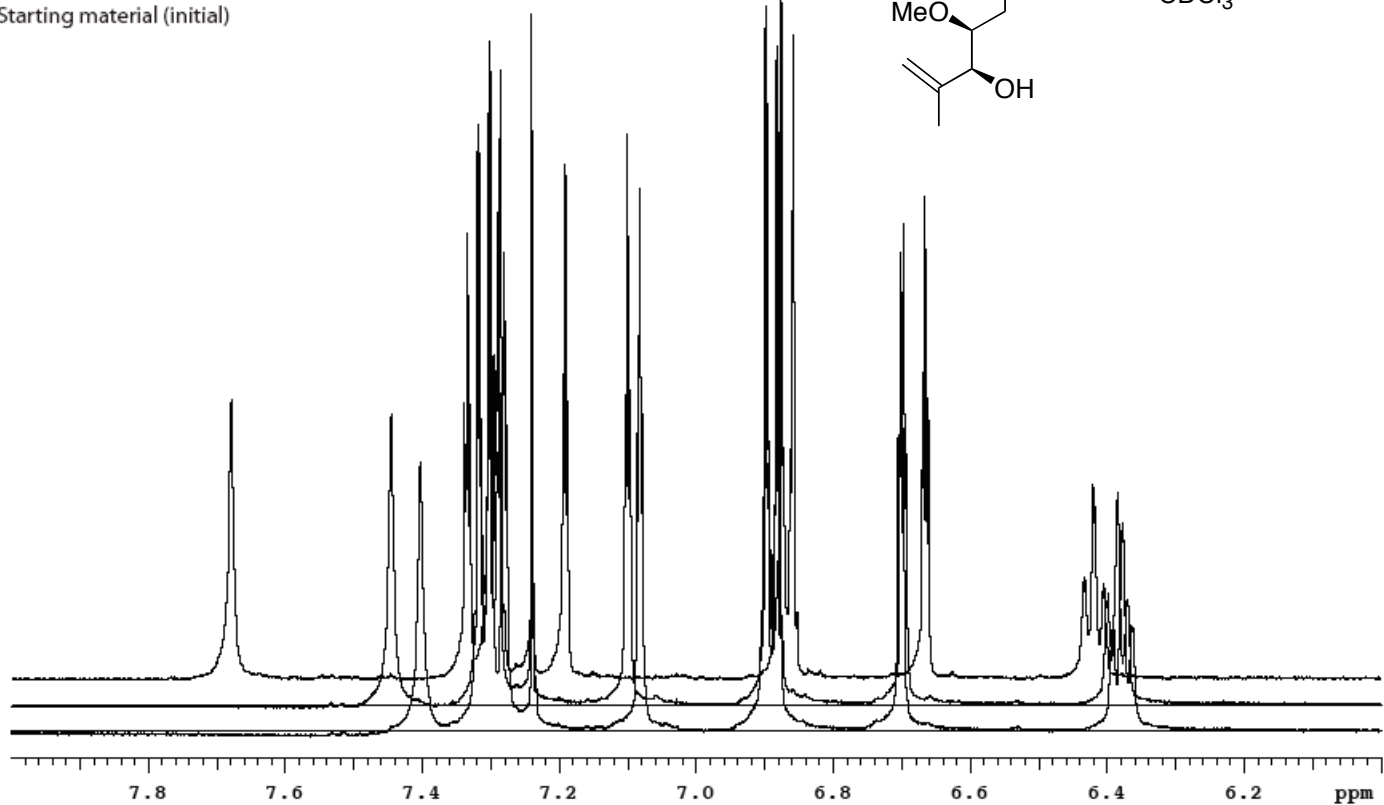
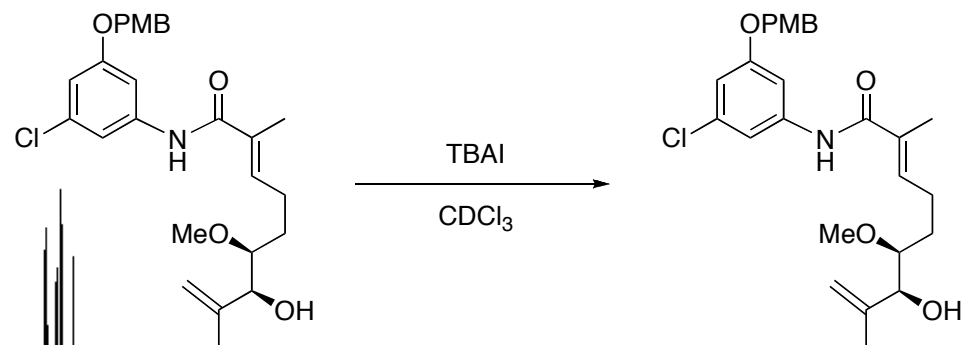
**From back**

- 1 equiv TBAF
- SM



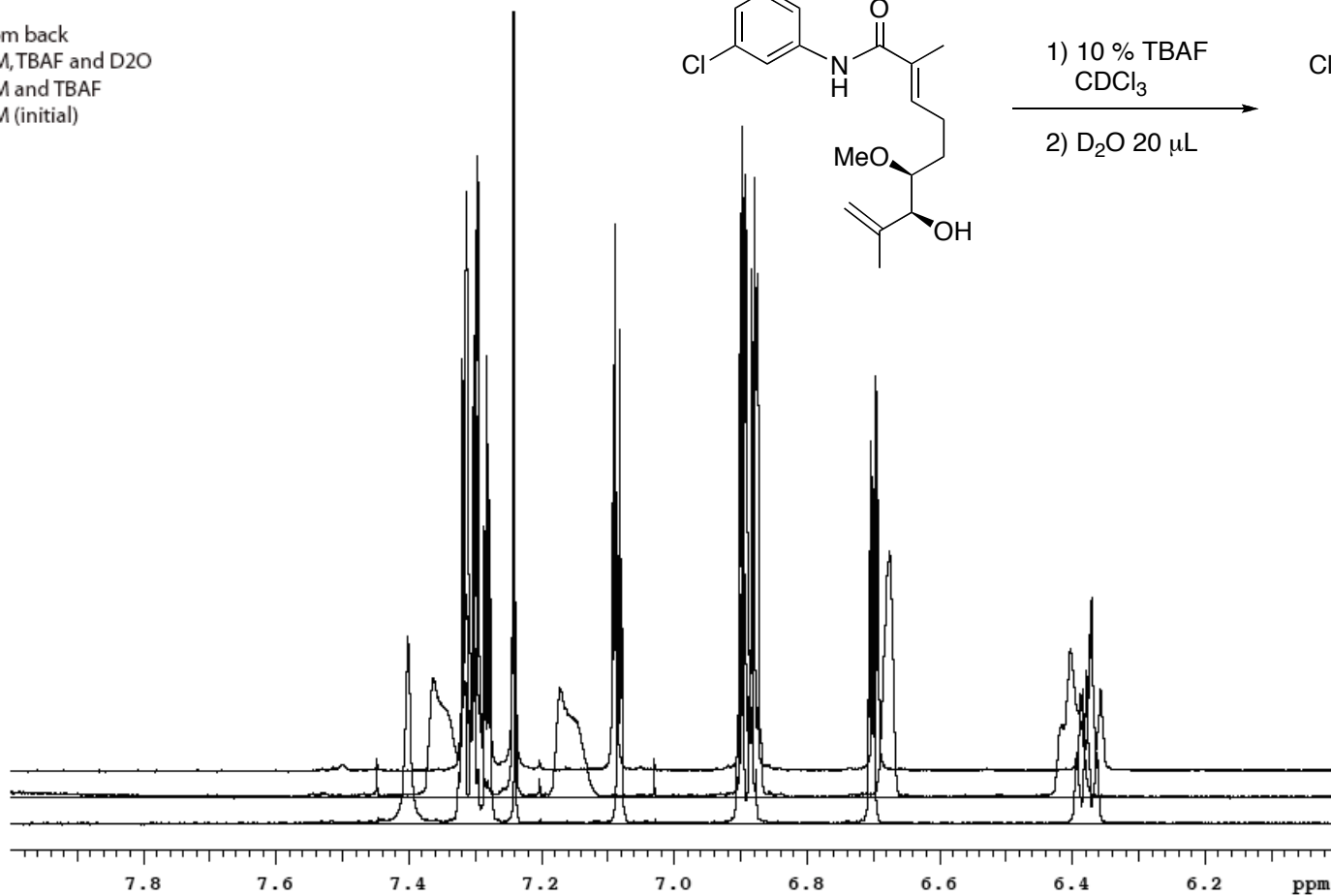
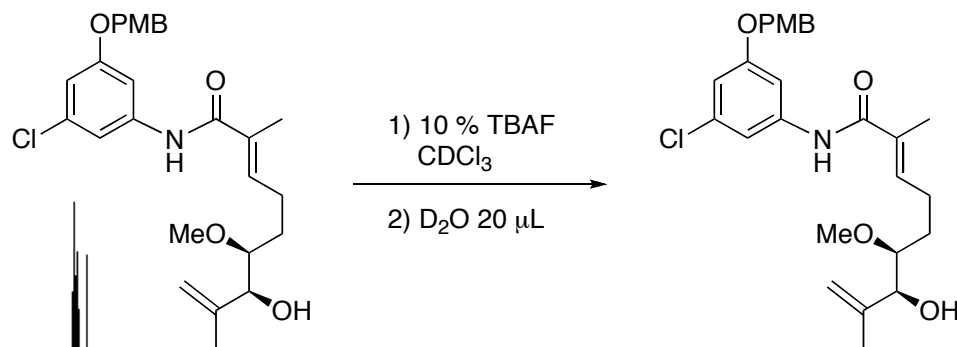
# TBAI Addition - H<sup>1</sup> NMR Experiment

- From Back:
- 1 equiv of TBAI
  - 10% of TBAI
  - Starting material (initial)

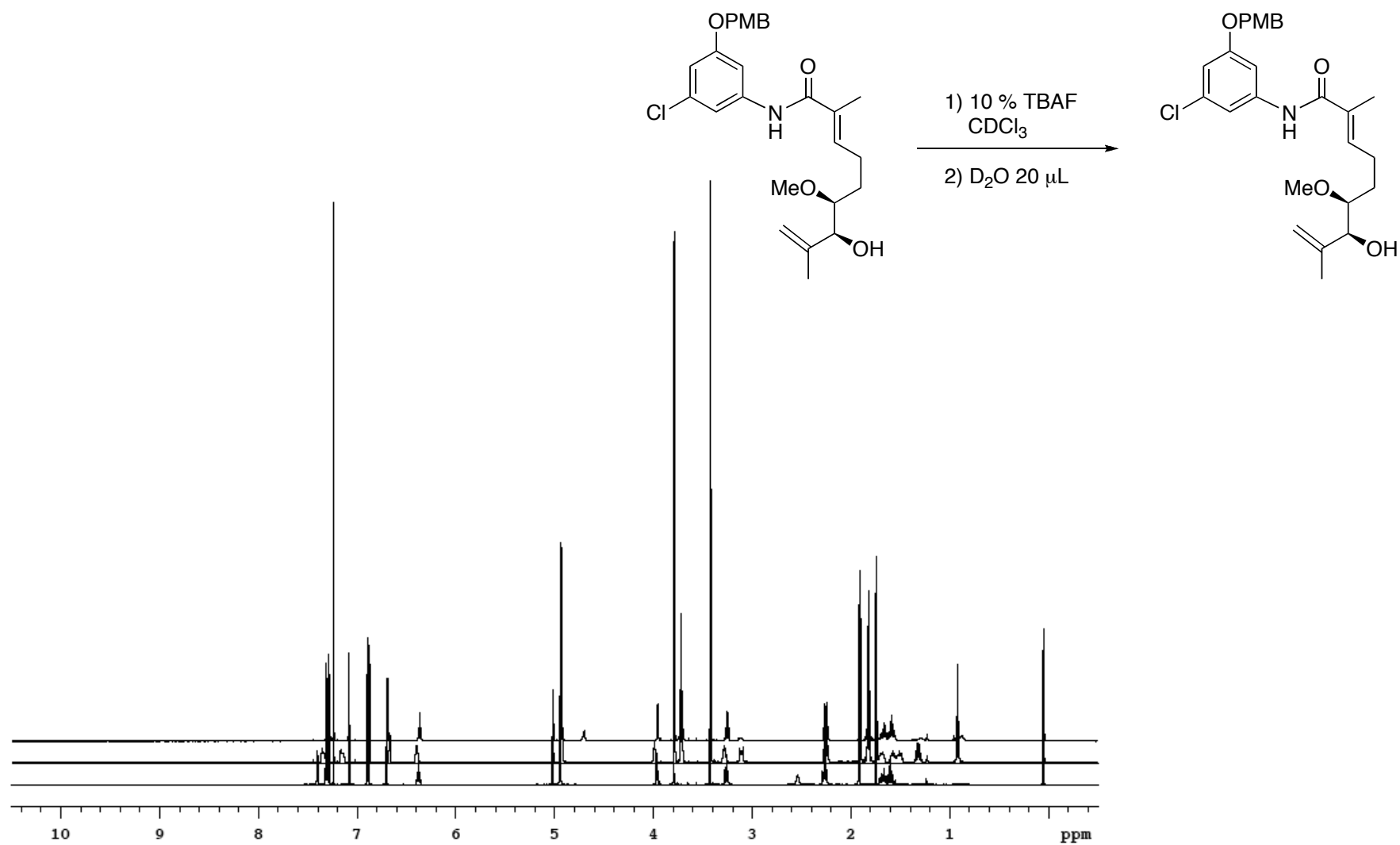


# TBAF/D<sub>2</sub>O Addition - H<sup>1</sup> NMR Experiment

From back  
· SM, TBAF and D<sub>2</sub>O  
· SM and TBAF  
· SM (initial)



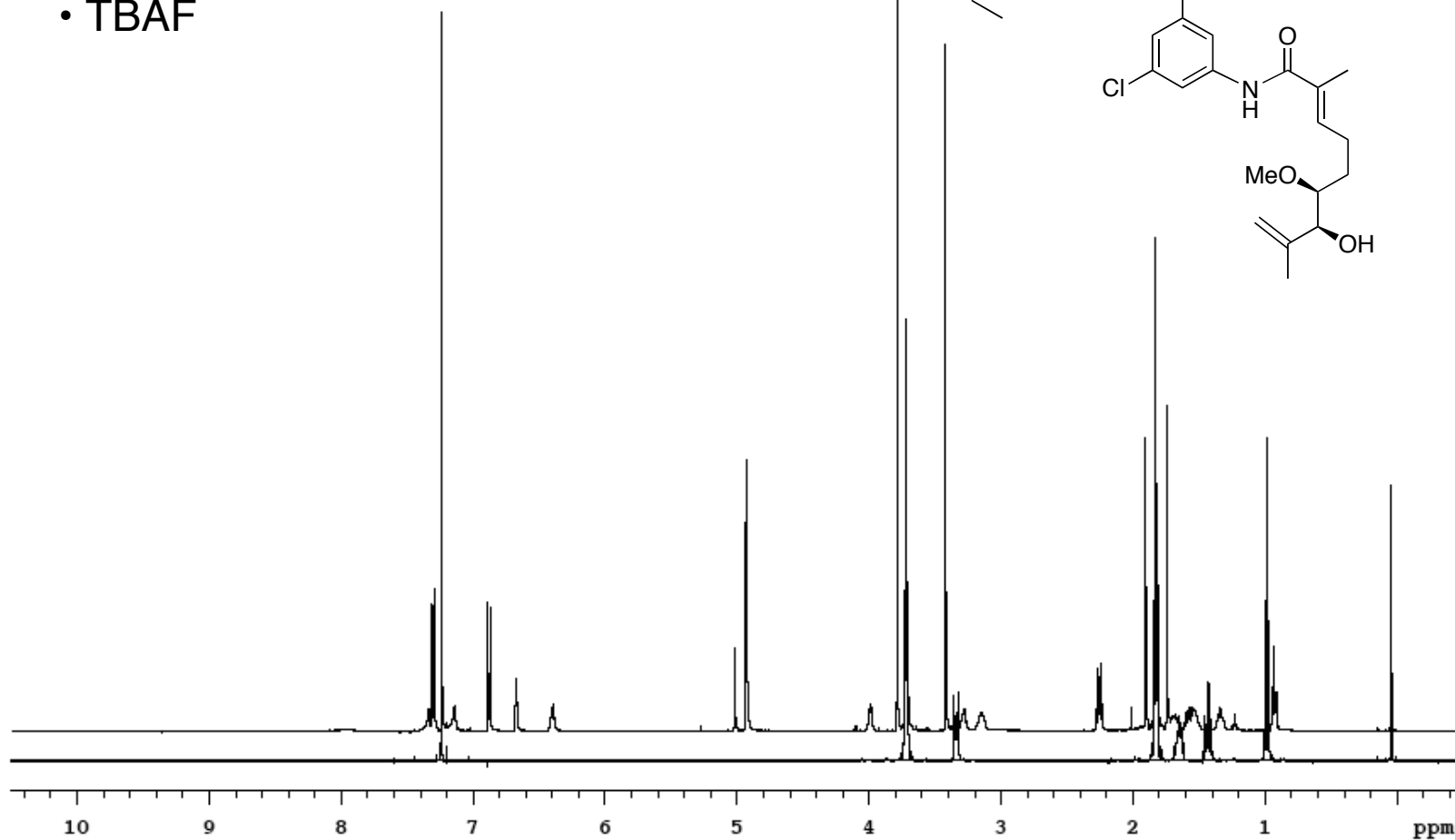
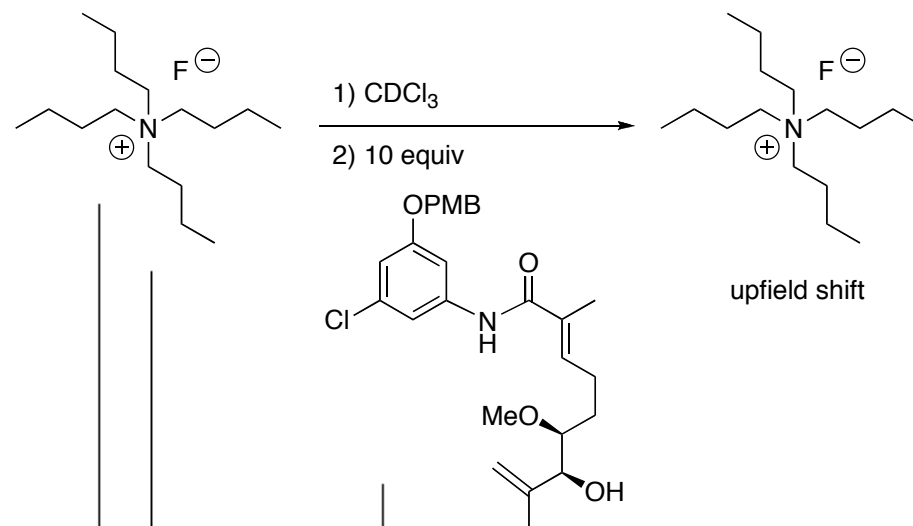
# TBAF/D<sub>2</sub>O Addition - H<sup>1</sup> NMR Experiment



# TBAF - H<sup>1</sup> NMR Experiment

## From back

- TBAF + Amide
- TBAF

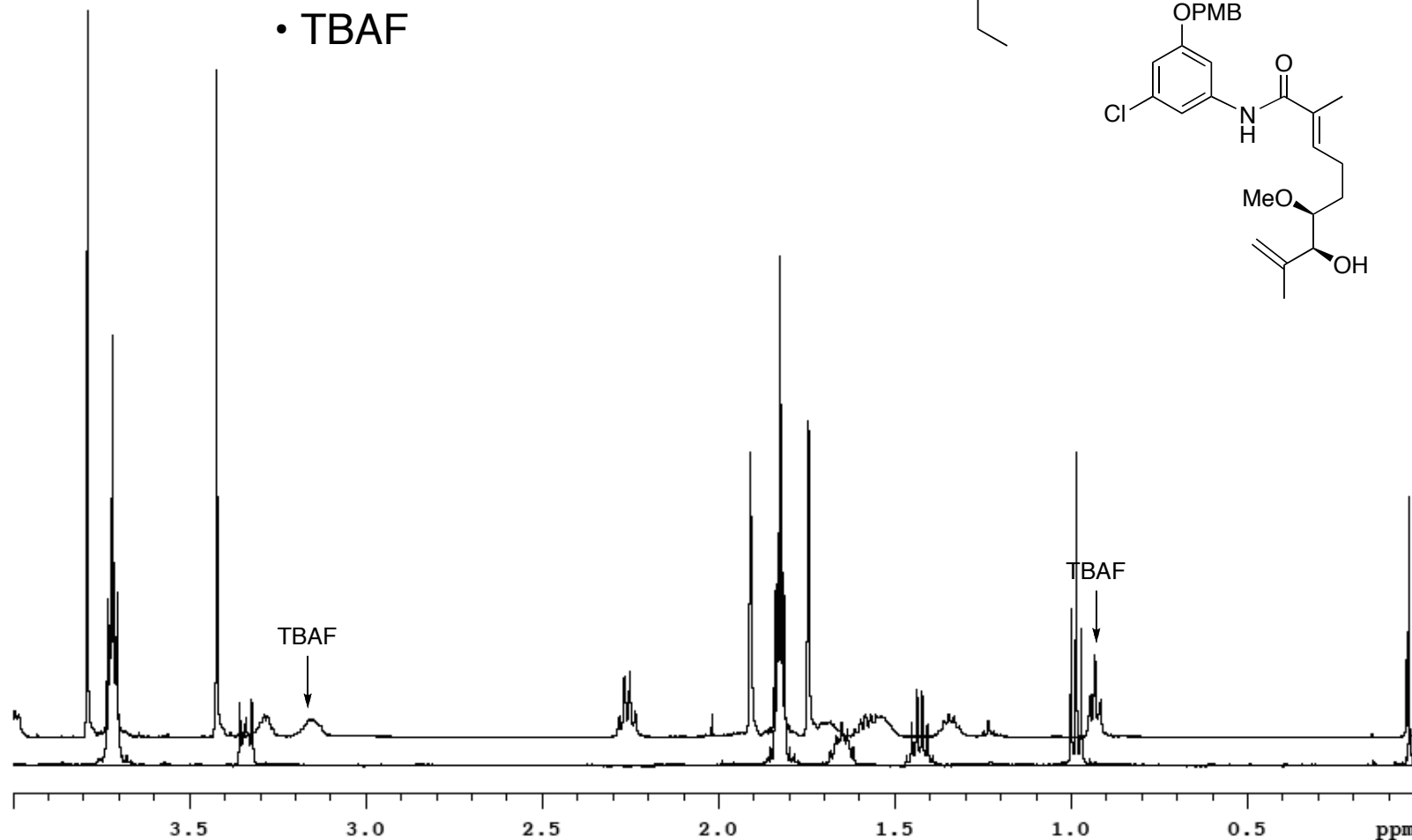
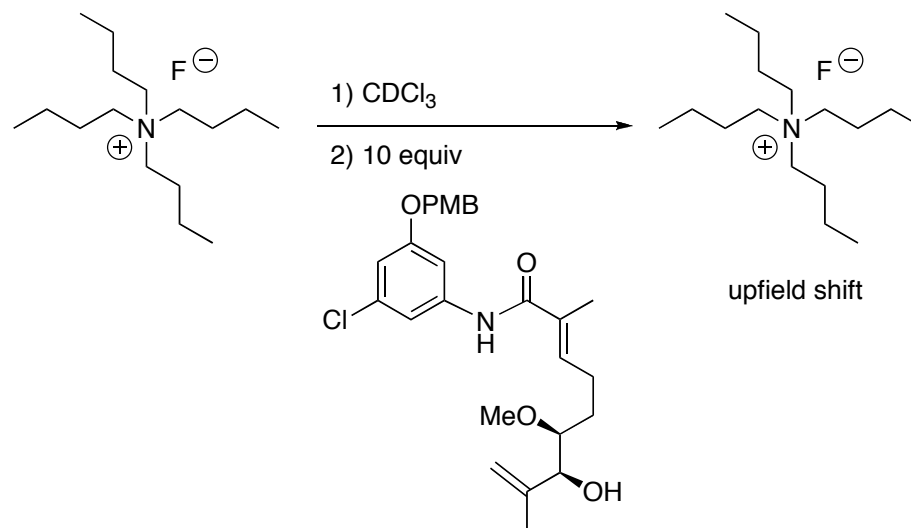




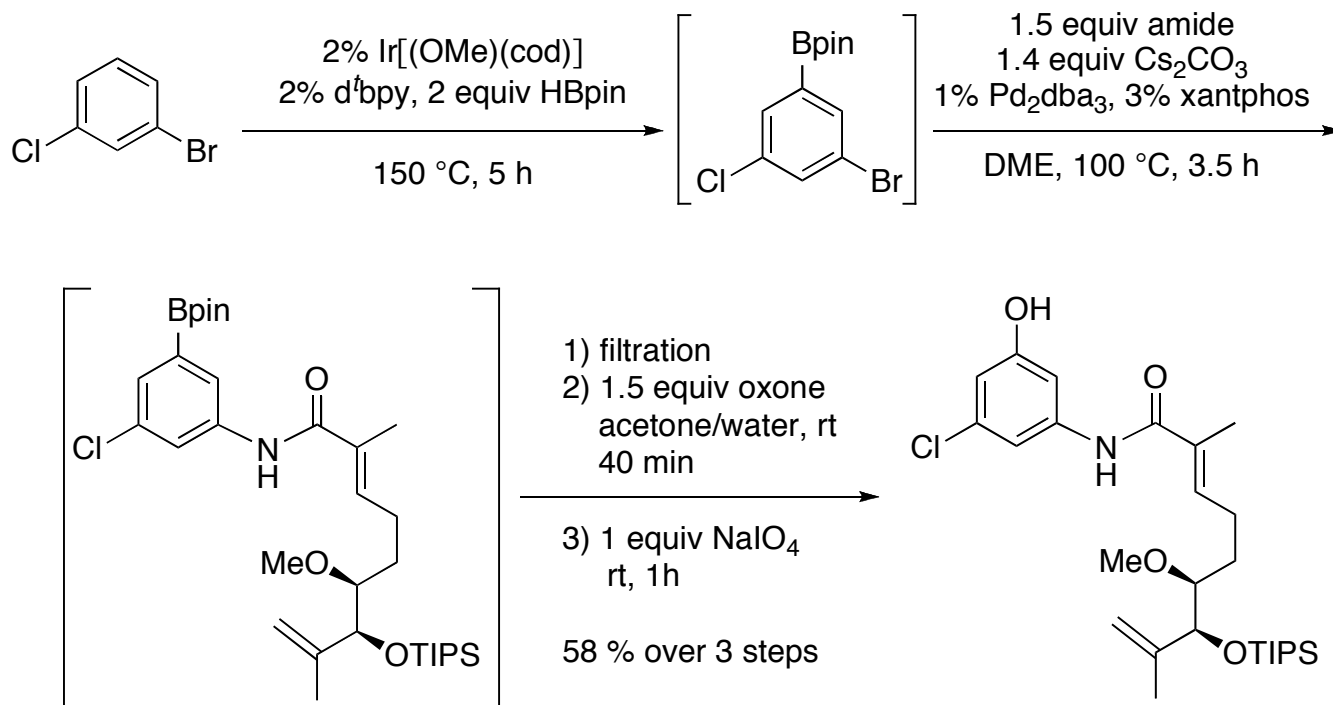
# TBAF - H<sup>1</sup> NMR Experiment

**From back**

- TBAF + Amide
- TBAF



# C-H Activation/Borylation/Amidation/Oxidation



- 2) a) Same  
 b) 3.5 h, SM present, deborylation seen  
 c) Same  
 => 37% amidation  
 89% of amide-part isolated (SM 64%, P and Suzuki ~8%)

- 4) a) 6 h  
 b) 4.5 h, SM consumed  
 c) Same  
 => 57% amidation  
 89% of amide-part isolated (SM ~48%, P and Suzuki ~6%)

- 3) a) Same  
 b) 5.5 h, SM present  
 c) Same  
 => 48% amidation  
 88% of amide-part isolated (SM 53%, P and Suzuki ~4%)