## SR2024 - POW11

$$\begin{array}{c} \text{Me} \\ \text{N} \\ \text$$

The shown transformation consists of two consequtive palladium-catalyzed reactions.

- A) What are the names of the two reactions?
- B) Give the structure of product A.
- C) Provide both catalytic cycles.

**Hint:** Consider differences of the reaction rates of the halides/pseudohalides (in this case iodide vs triflate) at the initial oxidative adddition step to account for the chemoselectivity.