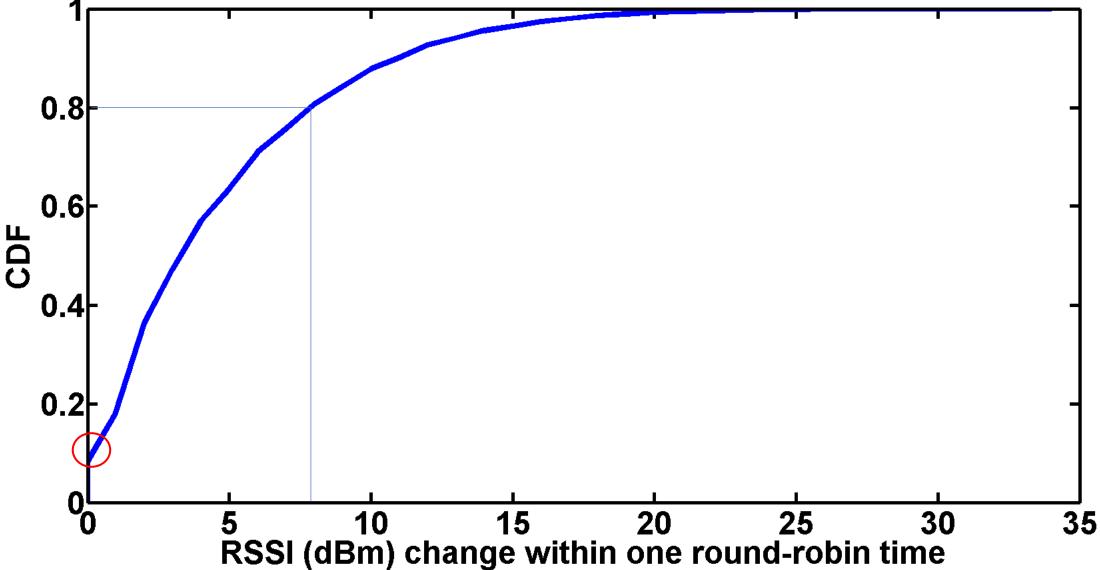
# LoRa Shuttle

- 1. PRR RSSI Model
- 2. PRR Noise Model
- 3. PRR RSSI&Noise Model

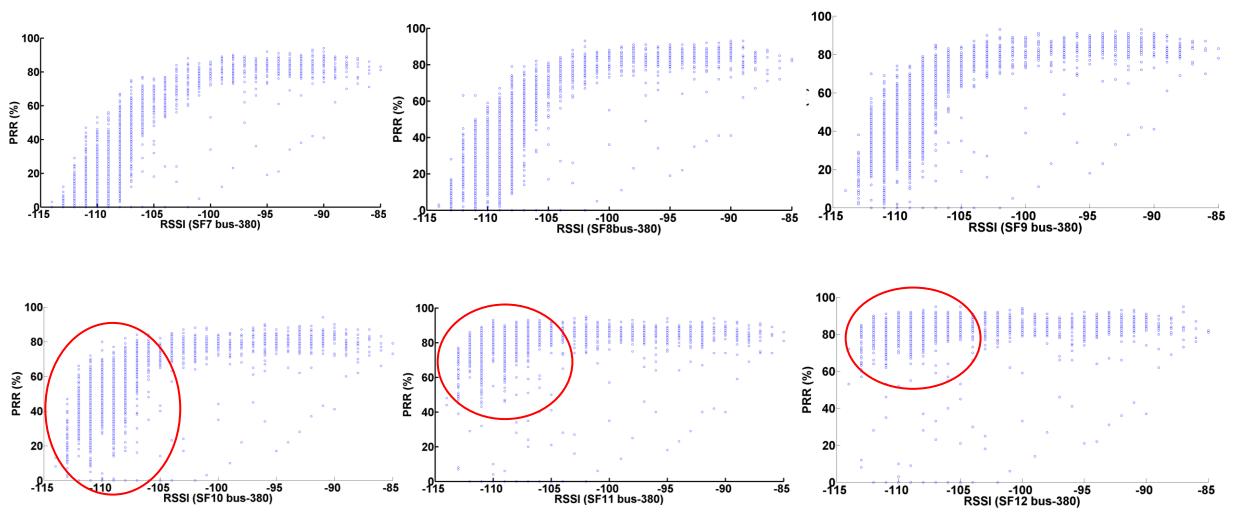
## 1. RSSI change under different SFs



Observation: 80% RSS change is smaller than 7.5 dBm, and 10% RSS change is 0 dBm.

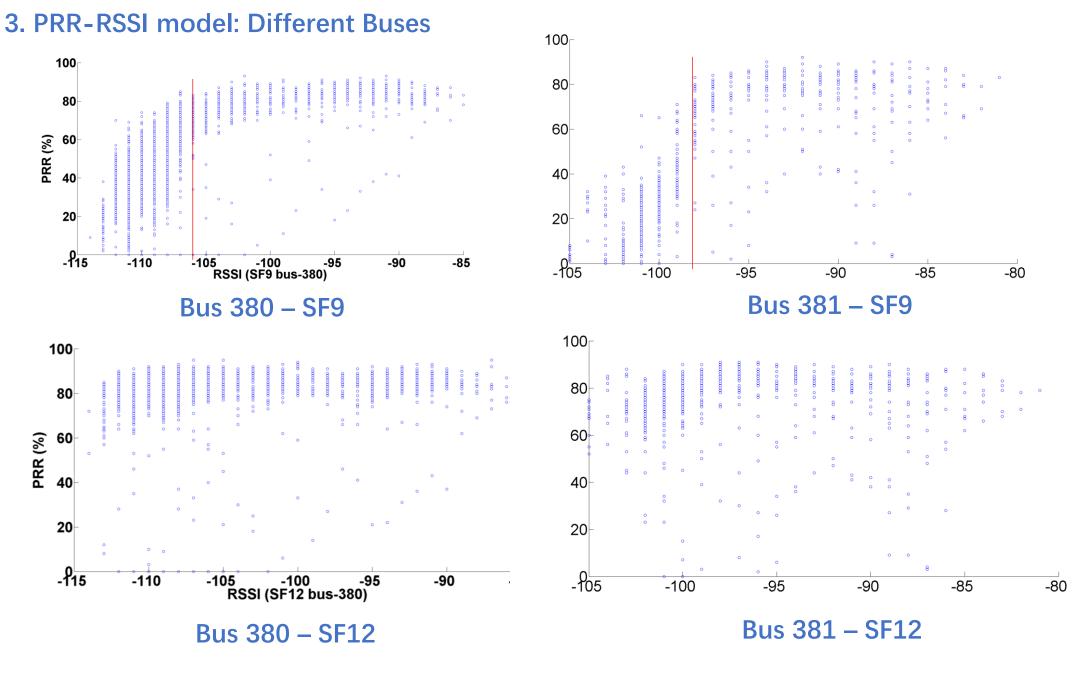
- 1. Use different SFs, the RSS received has small variation
- 2. The RSS variation is due to the movement of the vehicle

#### 2. PRR-RSSI model



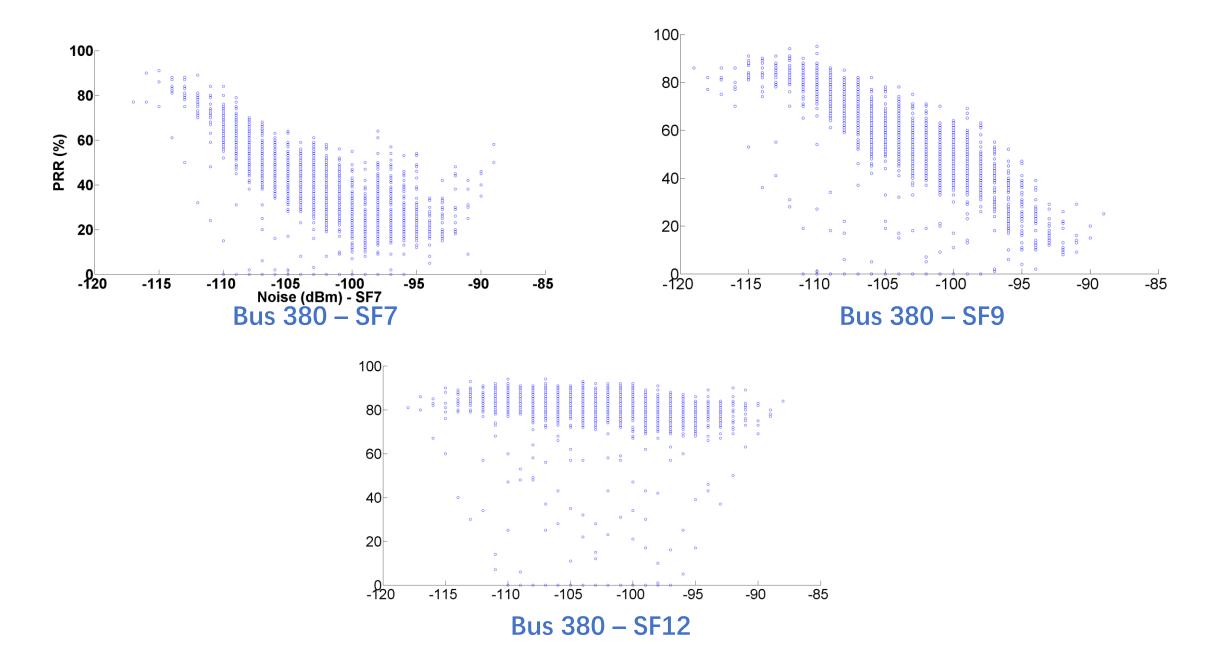
### Possible research directions:

- 1. Model the RSS-PRR relations when the RSSI value is low
- 2. Model

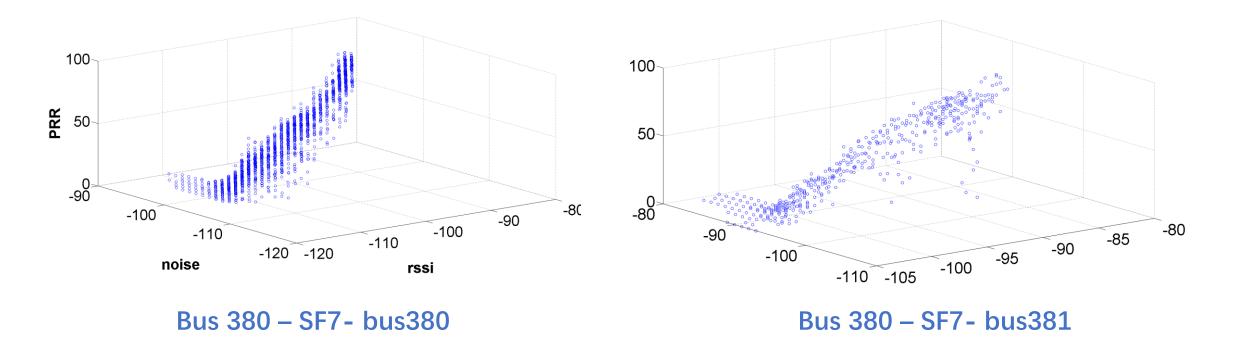


1. By right or left shift, we can get the PRR-RSSI model from bus A -> bus B

## 4. PRR-Noise model



### 5. PRR-RSSI and Noise model



1. BusA -> BusB, their models follow the same pattern