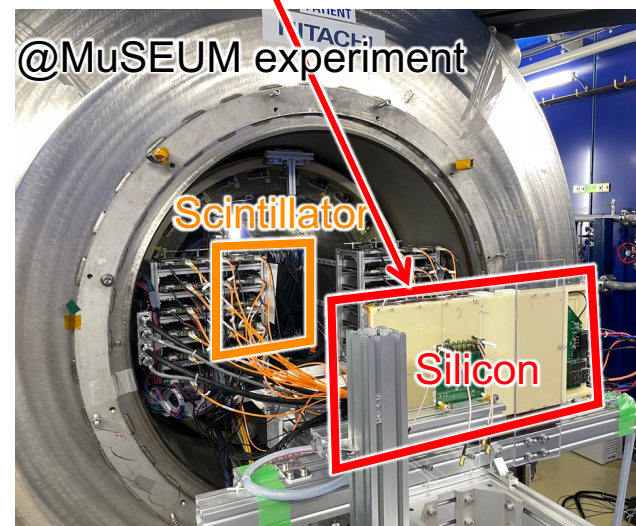
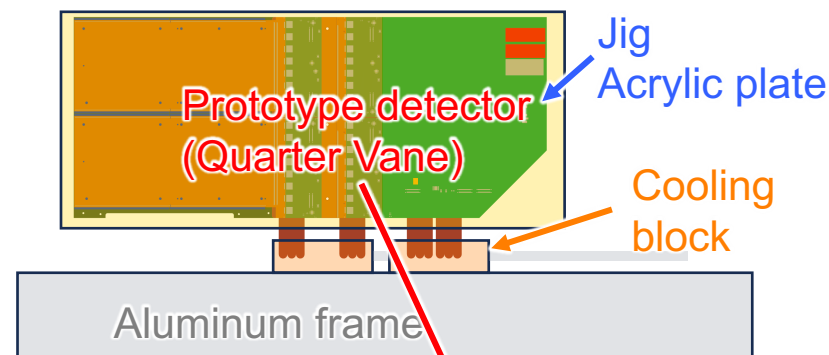
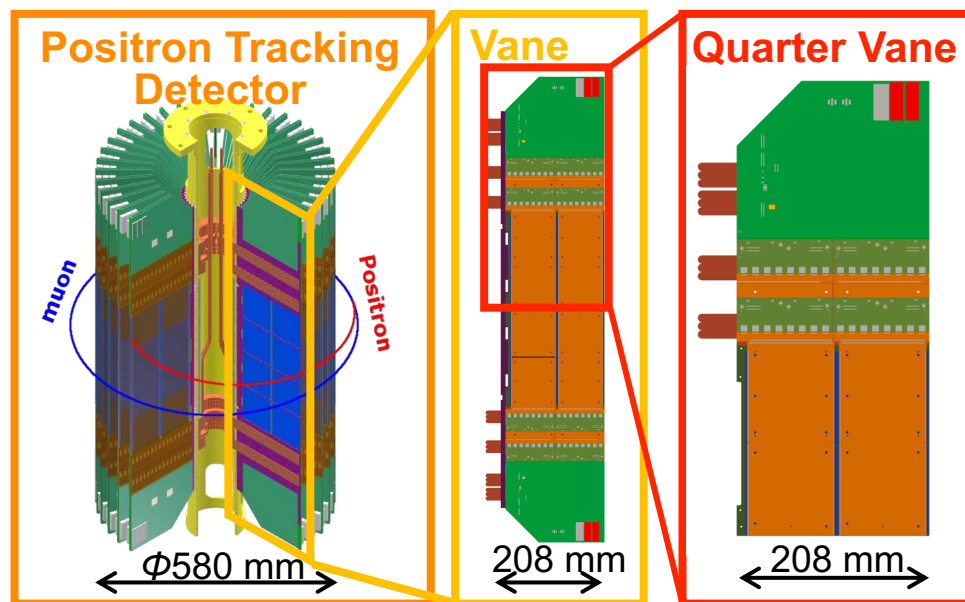


# Test Operation of Silicon Strip Detector

- Developing a silicon strip detector for J-PARC muon  $g - 2$ /EDM experiment
  - High-rate operation check in MuSEUM experiment
  - Analysis of signal, noise, and pile-up



- Application to the MuSEUM Experiment
  - **Scintillator:** 576 ch, 24 cm square, 1 ch/cm<sup>2</sup>
  - **Silicon:** 4096 ch, 20 cm square, 10 ch/cm<sup>2</sup>
    - Effective rate reduced to  $\sim 1/10$  of scintillator
    - Improved rate tolerance (reduced pile-up loss)