

Leak test progress

University of Minnesota

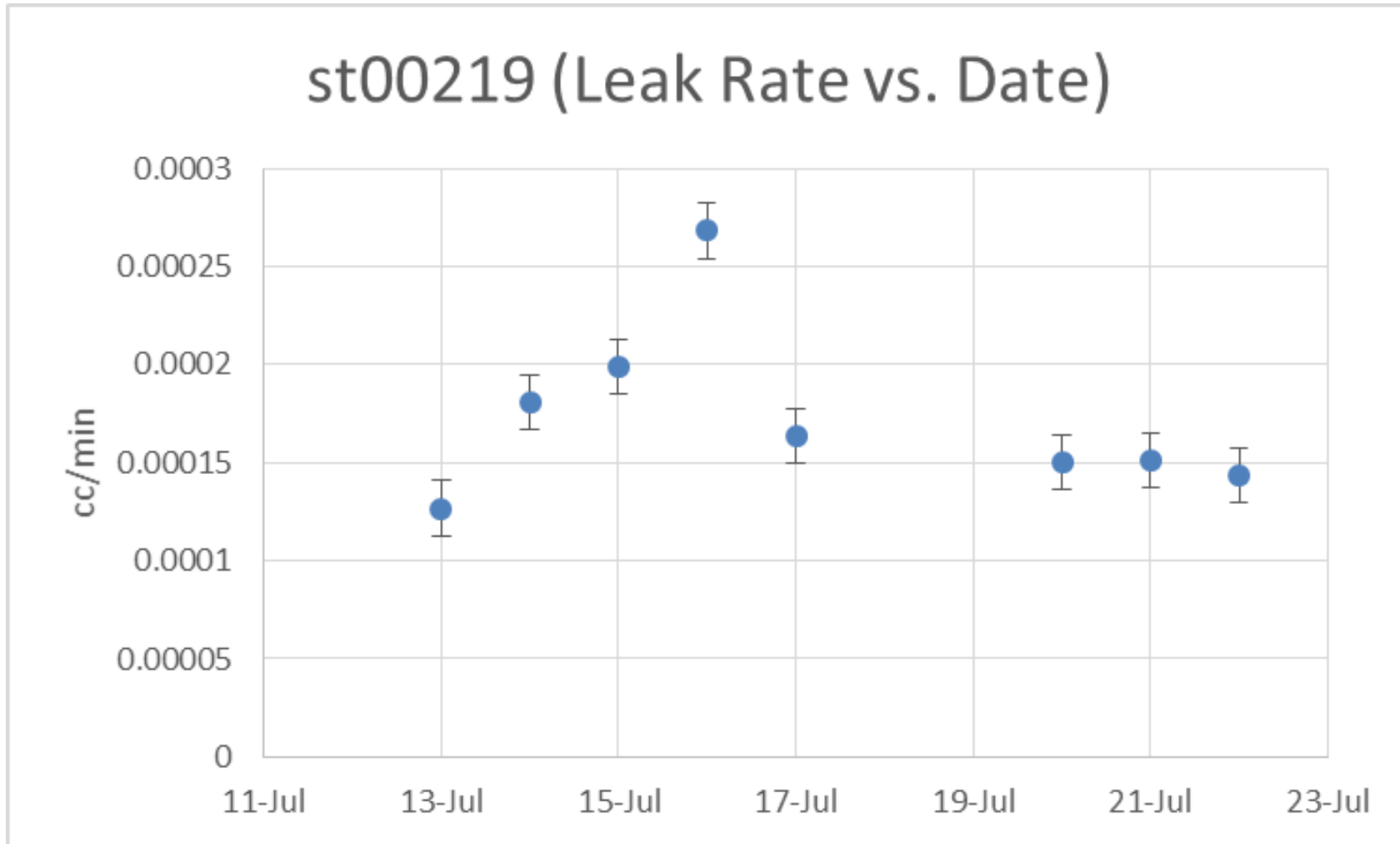
Yan Ke

Jul 23rd

Apparatus progress & problem

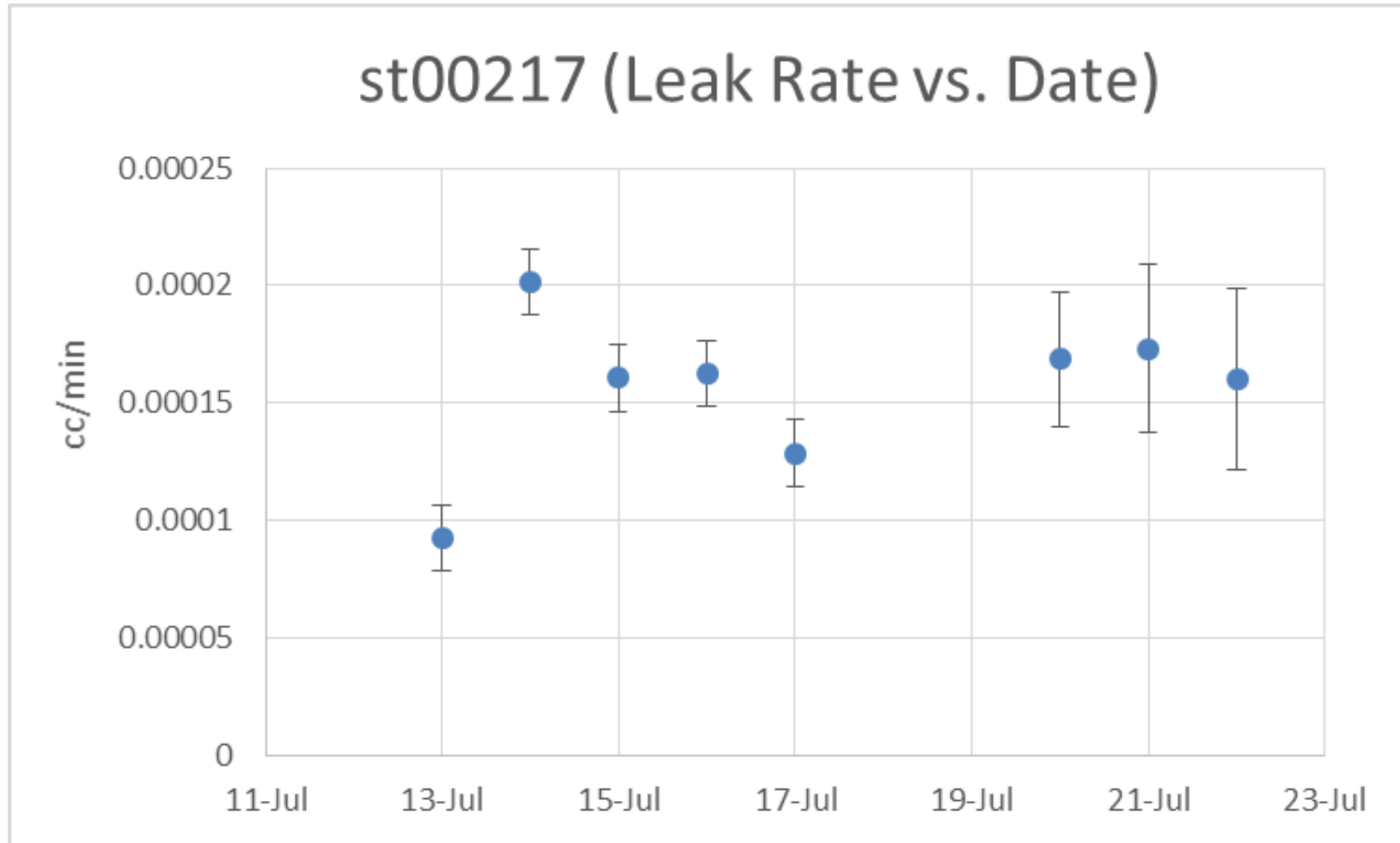
- I made 4 identical phone wires. However they still cannot working together.
- Python code has been used (not barcode)
- Tried 3D printing part. Got leak rate around 0.0001 cc/min. (1/3 of the upper limit of the straw. Failed)

Leak test progress



- After Jul 16th, straw was flushed with N₂ right after each measurement.
- Error bar: only statistical fluctuation

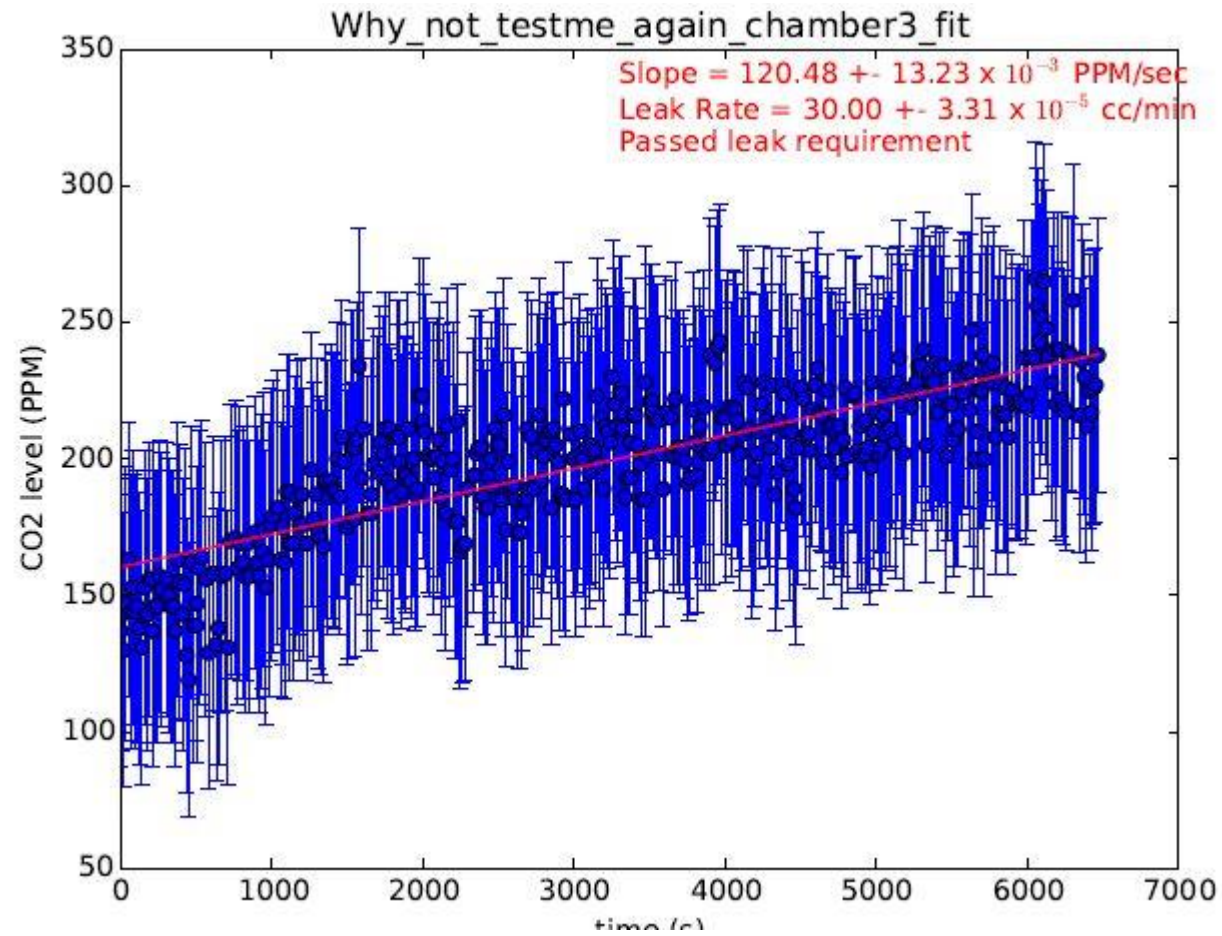
Leak test progress



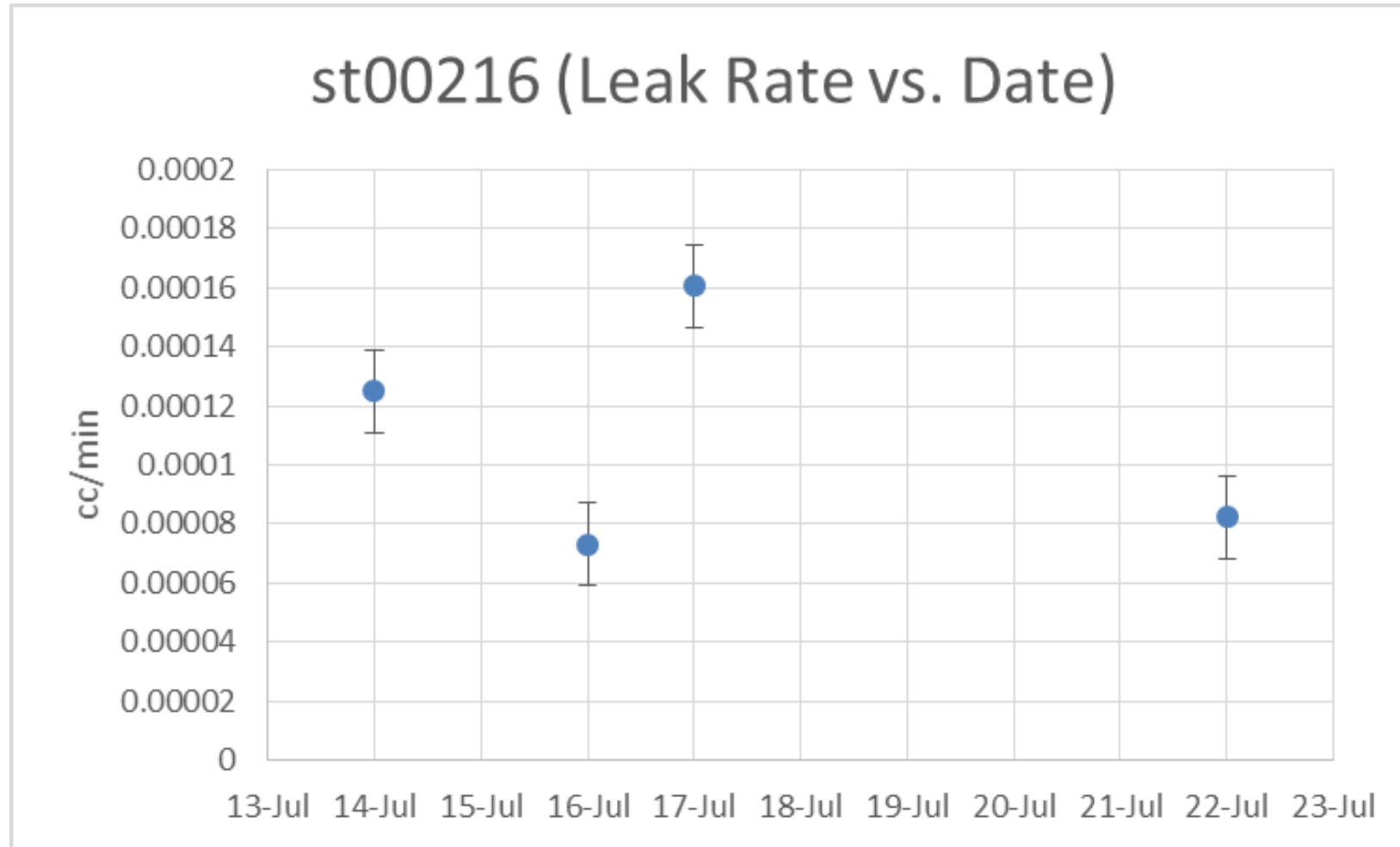
- After Jul 16th, straw was flushed with N₂ right after each measurement.
- Changed chamber after Jul 20th
- Error bar:
 - Before Jul 17th: only statistical fluctuation
 - After Jul 17th: Dan's algorithm

A Jump?

St00217 Measurement on Jul 22nd

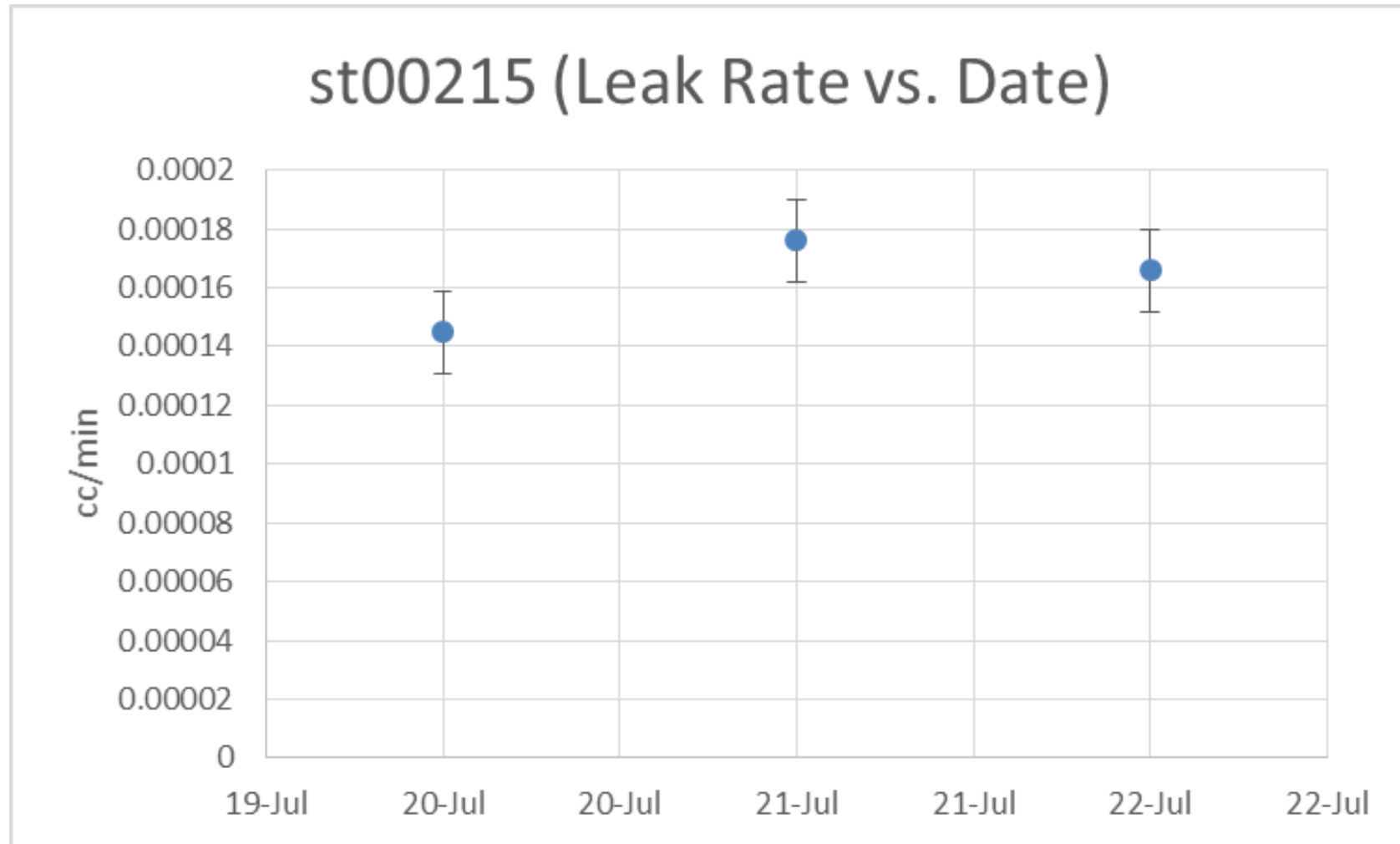


Leak test progress



- After each measurement:
 - Jul 14th: flushed N2
 - Jul 16th: Nothing
 - Jul 17th : flushed N2
- Error bar: only statistical fluctuation

Leak test progress



- This test is to check the guess on whether the problem comes from viton bathing in CO2 between each measurement.
- Replaced viton right before measurement on Jul-21 and Jul-22

Another jump? st00215 Measurement on Jul 21st

