CO2 Leak Progress

University of Minnesota

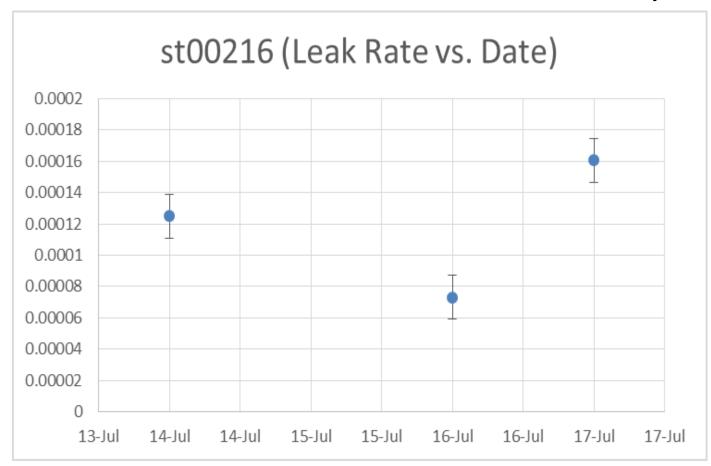
Yan Ke

Jul 17th 2015

Apparatus progress

- I cut one of the gray phone wire into two and make both of them working, We can run 3 chambers now without any problem.
- New wires coming on Monday
- Received Dan's python code. It will be working soon.
- st00130 and st00218 has been damaged by high pressure test(60psi absolute). I'll try 45psi next time.

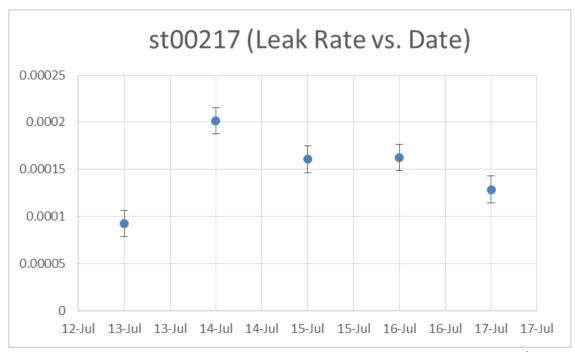
Leak test progress

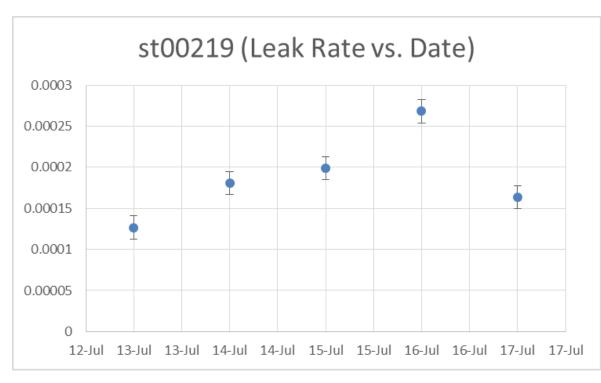


- New straw st00216, after the first time I tested it, I flush it with N2.
 After I tested it the second time, I didn't do anything then tested it once again today(third time).
- CO2 leave in the straw after measurement seems to be one of the reason of "memory". Remove CO2 will make it "amnesia".
- Note: I forgot depressurize it after the test Jul 14th until Jul 15th morning. So I didn't test it on Jul 15th

Leak test progress

 New straw st00217 and st00219 has been measuring day by day as normal except they were flushed with N2 on Jul 16th after the measurement





- The reason of increasing leak rate before Jul 17th
 - Guess 1: Guess 2: CO2 leave inside the straw cause the viton keeps bathing in CO2
 - Guess 2:Straw flushing with co2 before each measurement is not enough.
 - Guess 3: CO2 left inside the straw make the straw leaks easily.
- More guess on this?
- Will test each guess next week.