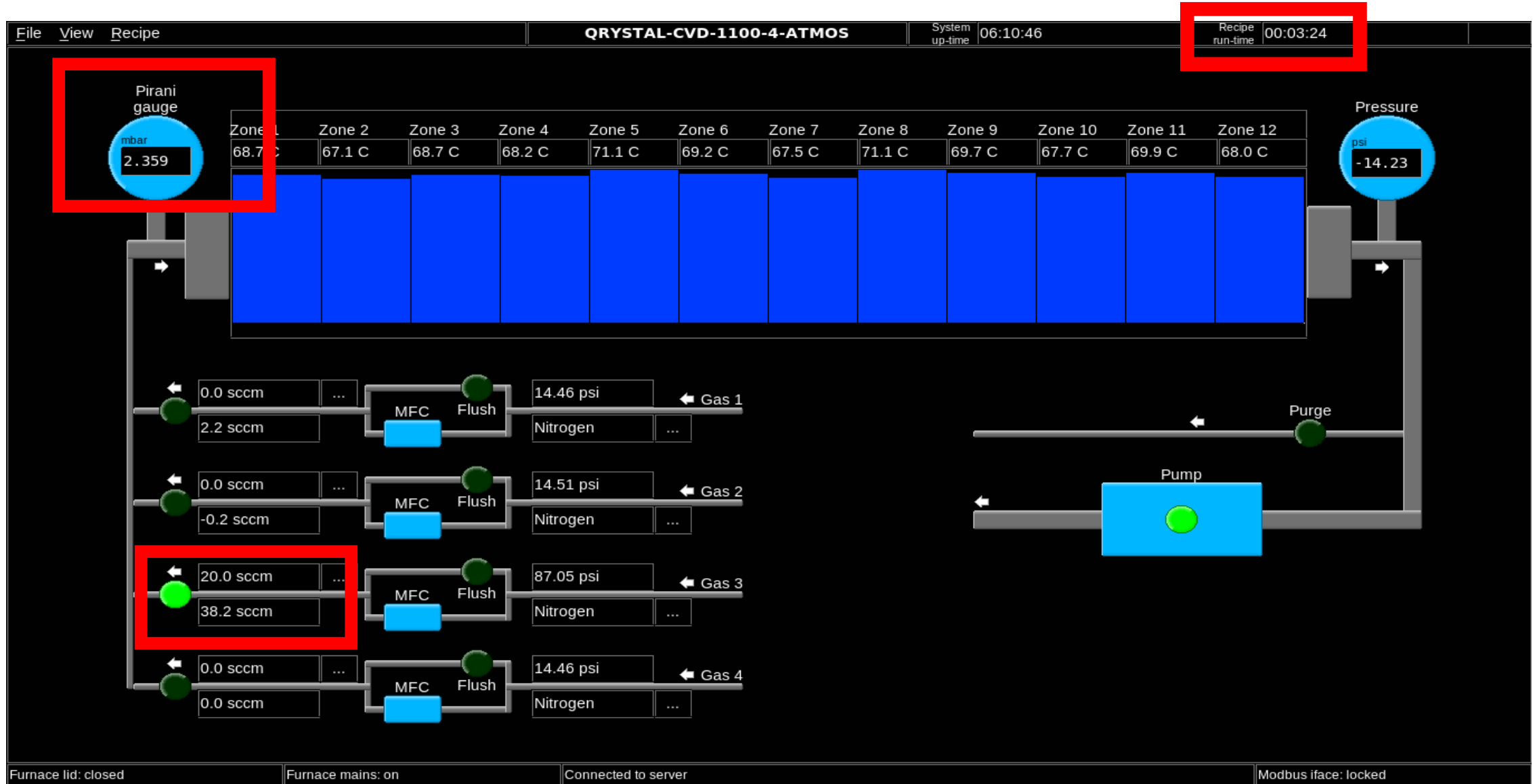


MFC (Channel 2) & Vacuum Pump: Not working properly



File View Recipe

QRYSTAL-CVD-1100-4-ATMOS

System
up-time 06:12:53

Recipe
run-time 00:05:32

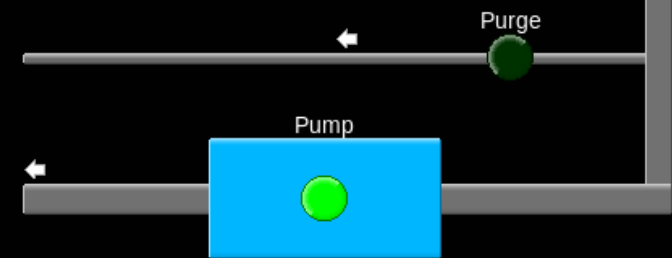
Pirani
gauge

mbar
4.135

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	Zone 12
127.9 C	127.5 C	126.9 C	126.4 C	125.7 C	126.0 C	124.6 C	126.7 C	125.3 C	127.2 C	126.9 C	124.6 C

Pressure

psi
-14.23



Furnace lid: closed

Furnace mains: on

Connected to server

Modbus iface: locked

FileViewRecipe

CRYSTAL-CVD-1100-4-ATMOS

System
up-time06:14:45

Recipe
run-time00:07:24

Pirani
gauge

mbar

2.851

Zone 1	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8	Zone 9	Zone 10	Zone 11	Zone 12
167.9 C	170.6 C	169.7 C	169.5 C	167.8 C	168.5 C	169.1 C	168.2 C	168.5 C	171.3 C	169.5 C	168.1 C

Pressure

psi

-14.23

0.0 sccm

2.2 sccm

0.0 sccm

-0.2 sccm

20.0 sccm

45.9 sccm

0.0 sccm

0.0 sccm

MFC

MFC

MFC

MFC

Flush

Flush

Flush

Flush

14.46 psi

14.51 psi

87.03 psi

14.46 psi

Gas 1

Gas 2

Gas 3

Gas 4

Nitrogen

Nitrogen

Nitrogen

Nitrogen

Purge

Pump

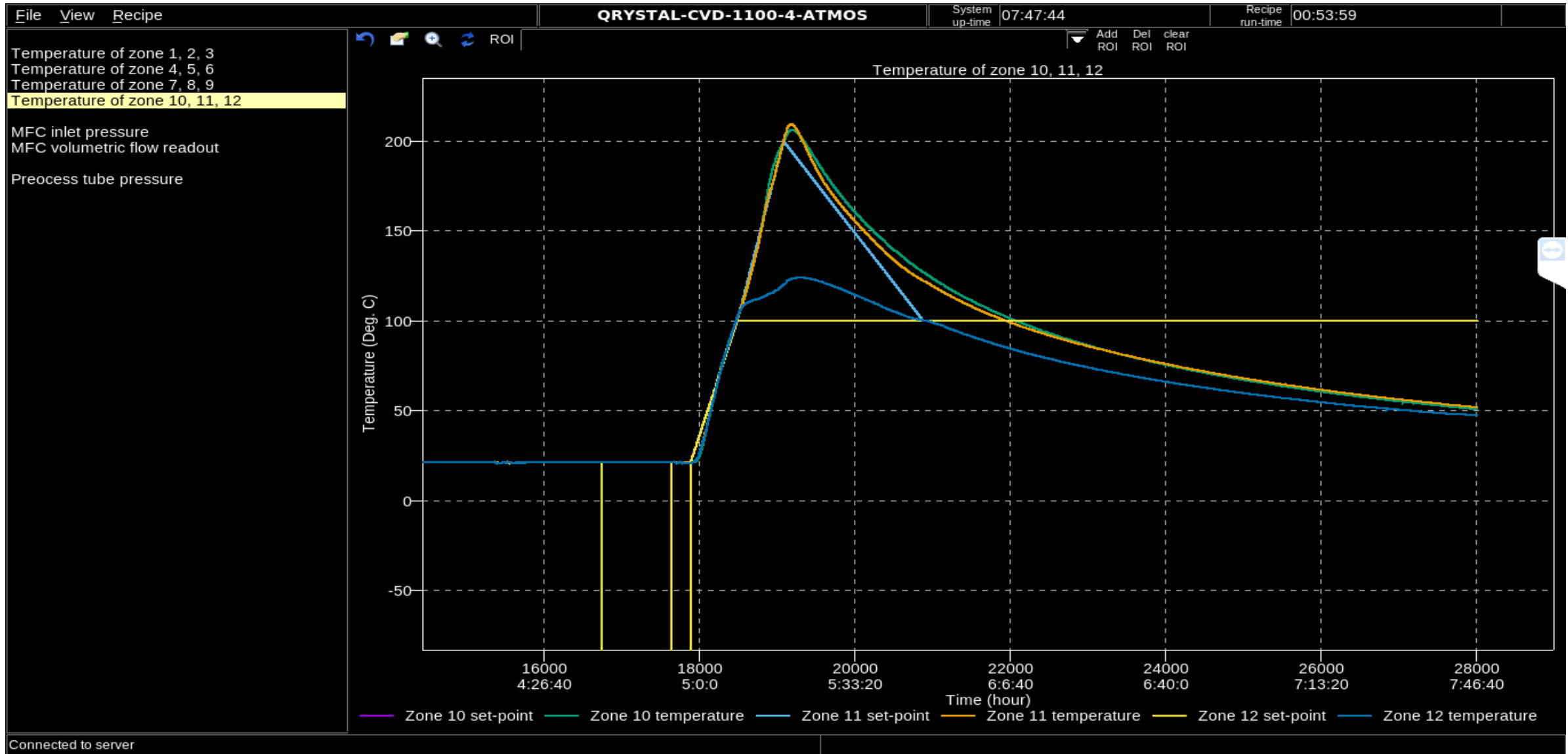
Furnace lid: closed

Furnace mains: on

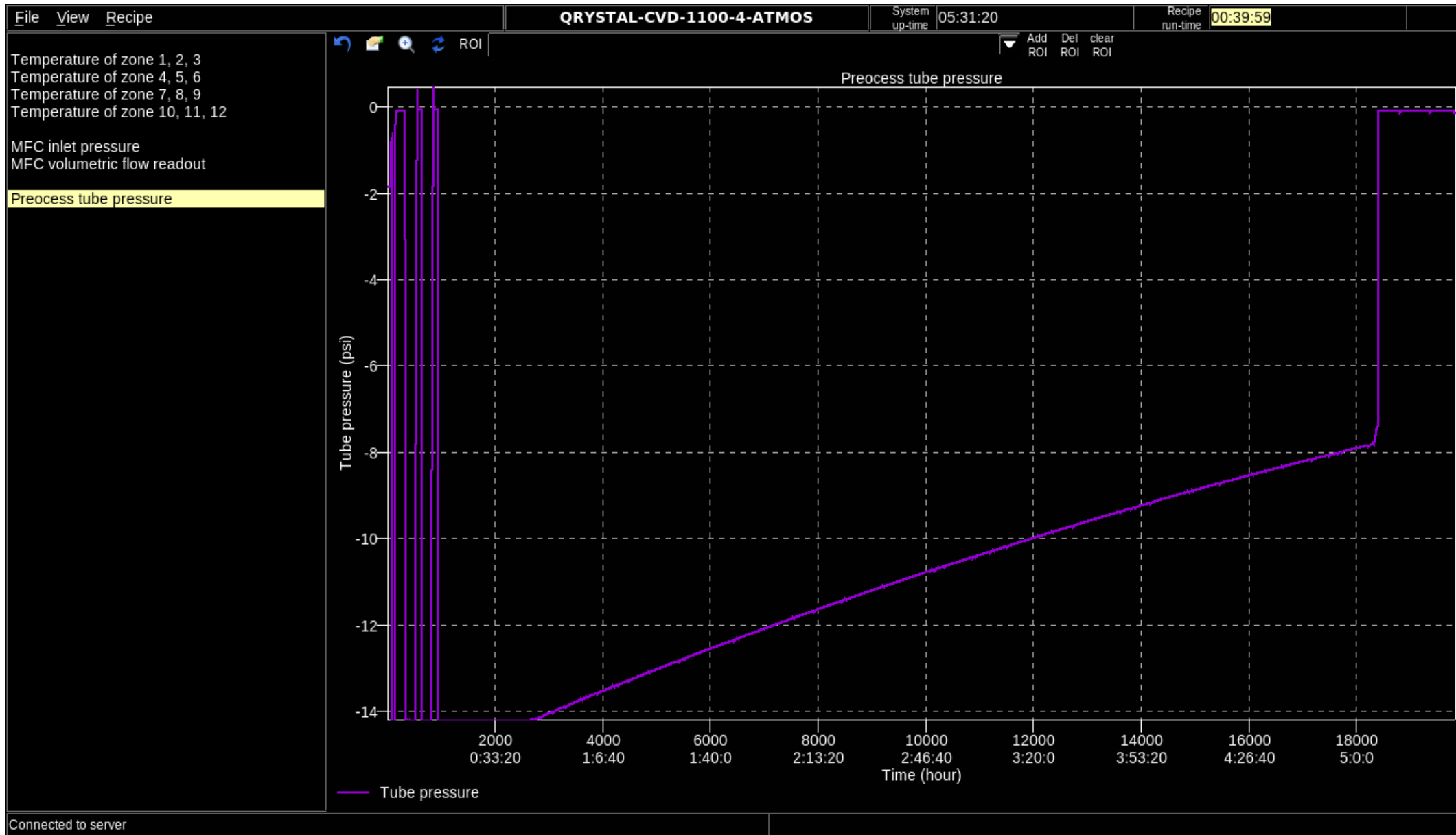
Connected to server

Modbus iface: locked

Temperature not maintained to 100° C



Pressure Profile



Pressure reading difference between analog & digital pirani gauge



Leak Test

- Plastic O-rings
- Metallic joints that holds the O-rings with the tube.

Other things to consider...

- One way purge valve.
- Preview window.
- Command to abort a recipe (Needs an updated one)
- Vacuum pump works occasionally.