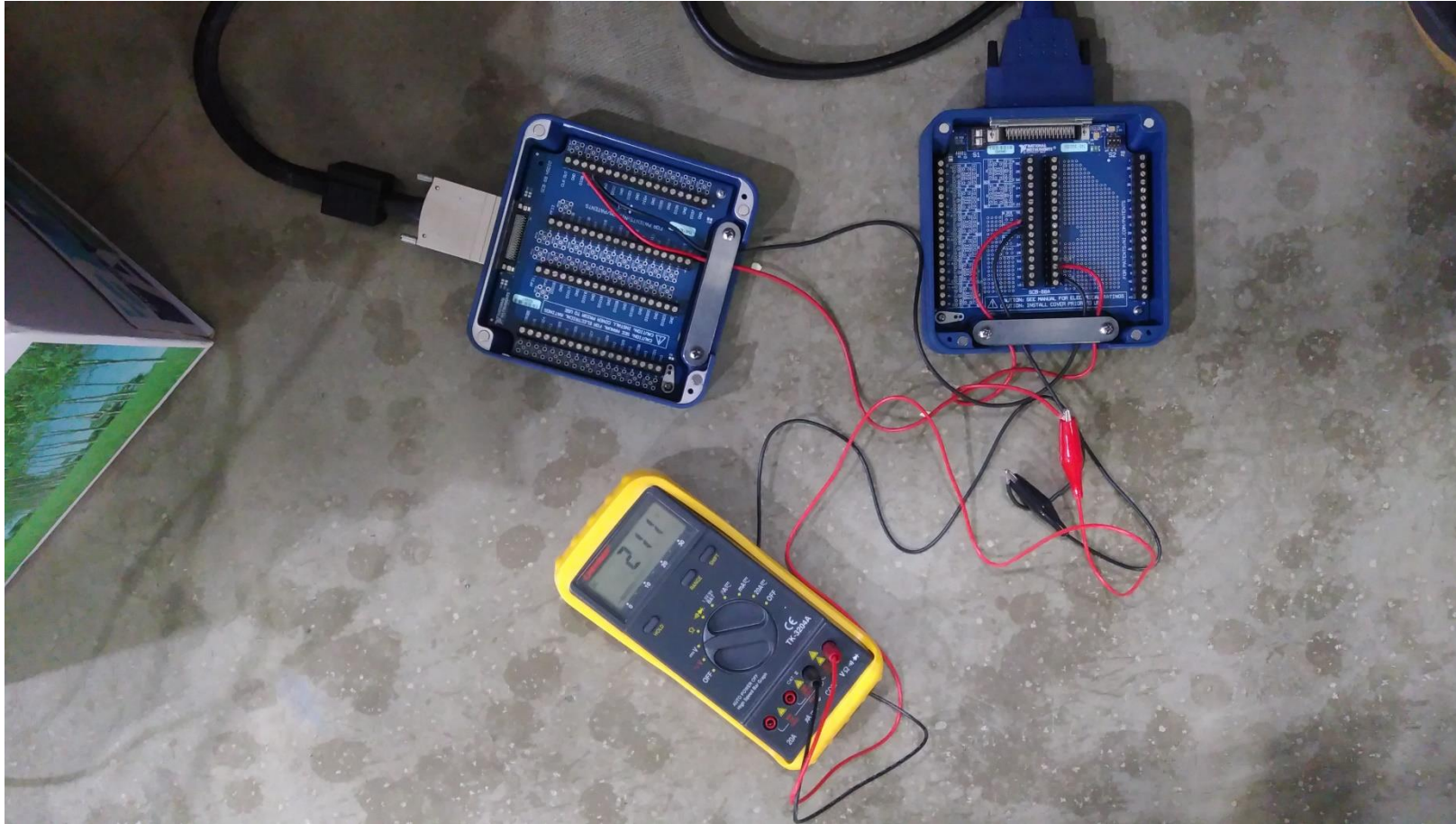


Trap

PXI, TMP, Gauges

박관형

PXI analog output & trigger check



- DAQmx ↔ FPGA
- Trigger
 - Digital trigger (PFI)
 - PXI trigger

TMP stanby

Check

ON

ON

TMP Start

Check

ON

ON

Punmping stn Start

Check

OFF

ON OFF

Program Stop

STOP

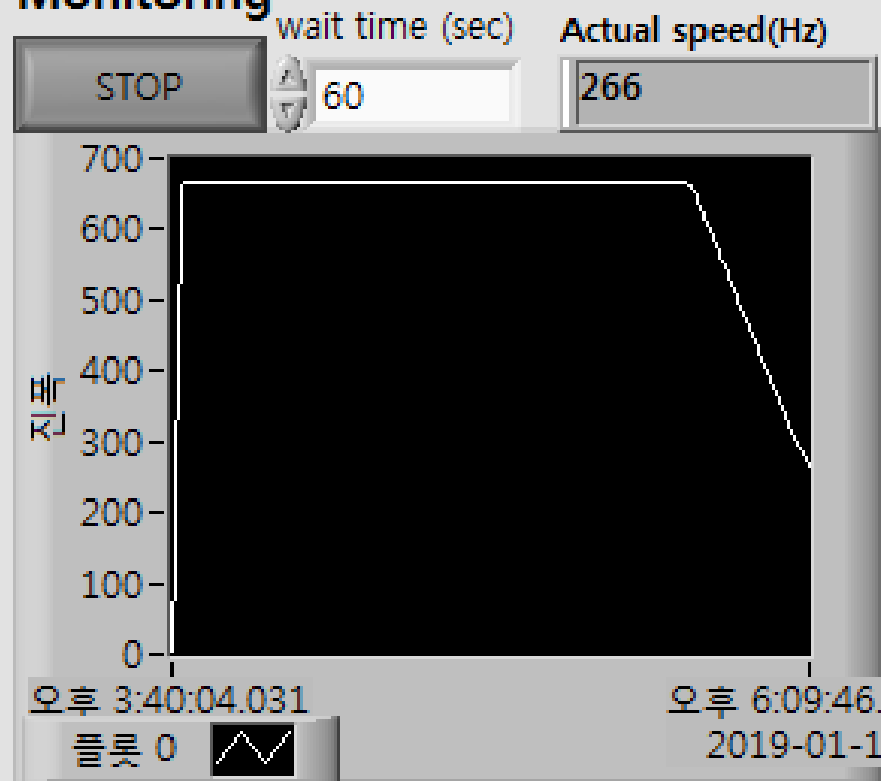
error out

status code

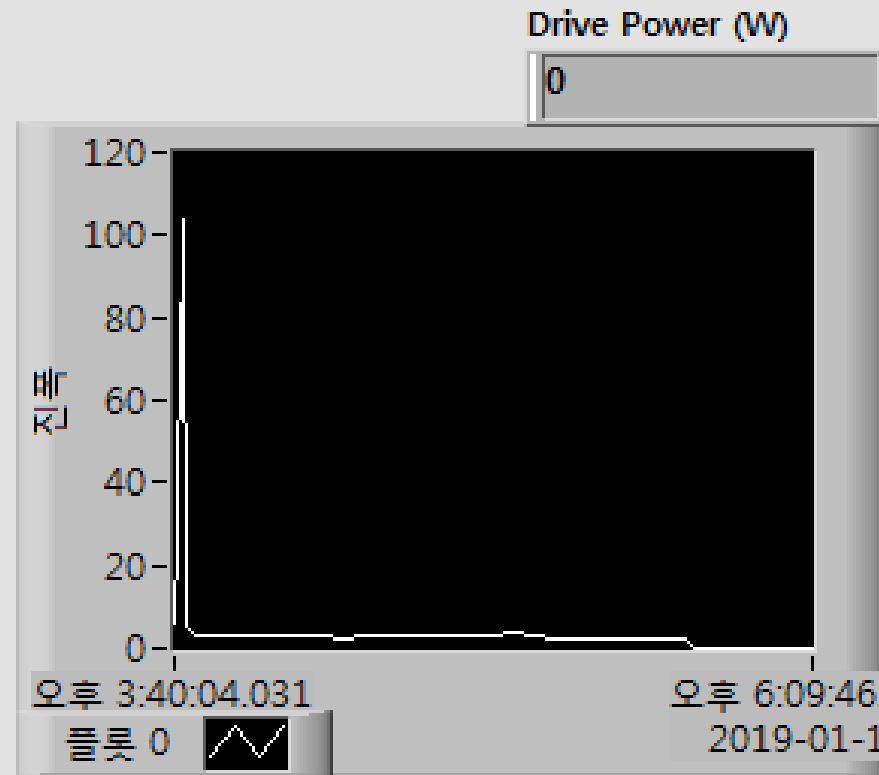
☒ d0

source

Monitoring



TMP Actual Speed (Hz)



TMP Power (W)

TC gauge

Check

>1.333E-04

ION gauge

Check

Program stop

STOP

Emission current

- ☒ 4mA
☐ 0.1mA

Filament selection

- ☒ Filament 1
☐ Filament 2
☐ Both-alternative

status



code error out

d0

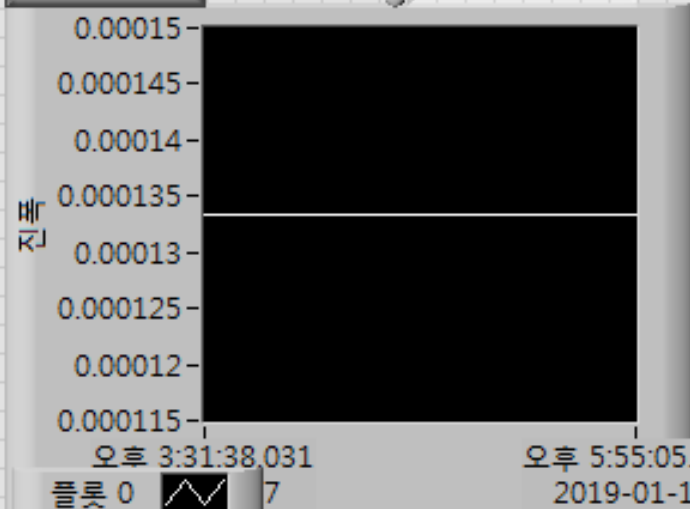
source

TC Monitoring

STOP

wait time (sec)

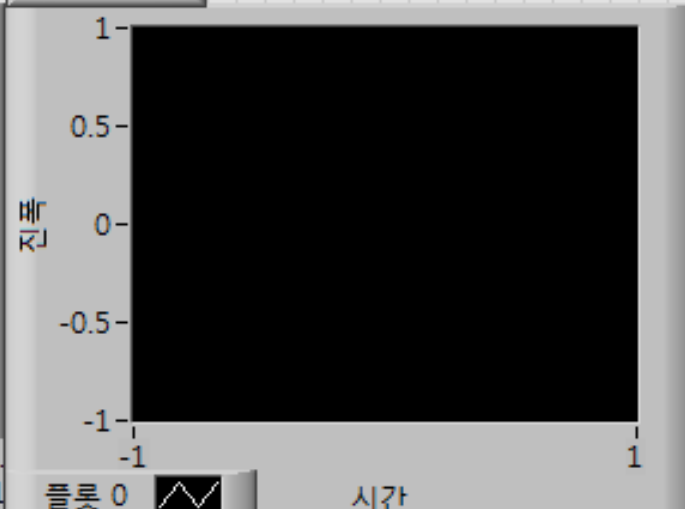
500



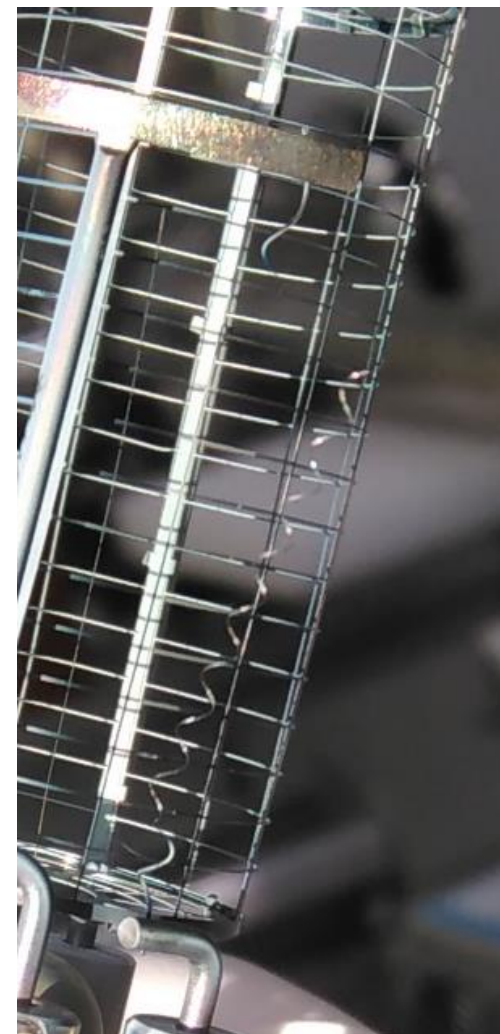
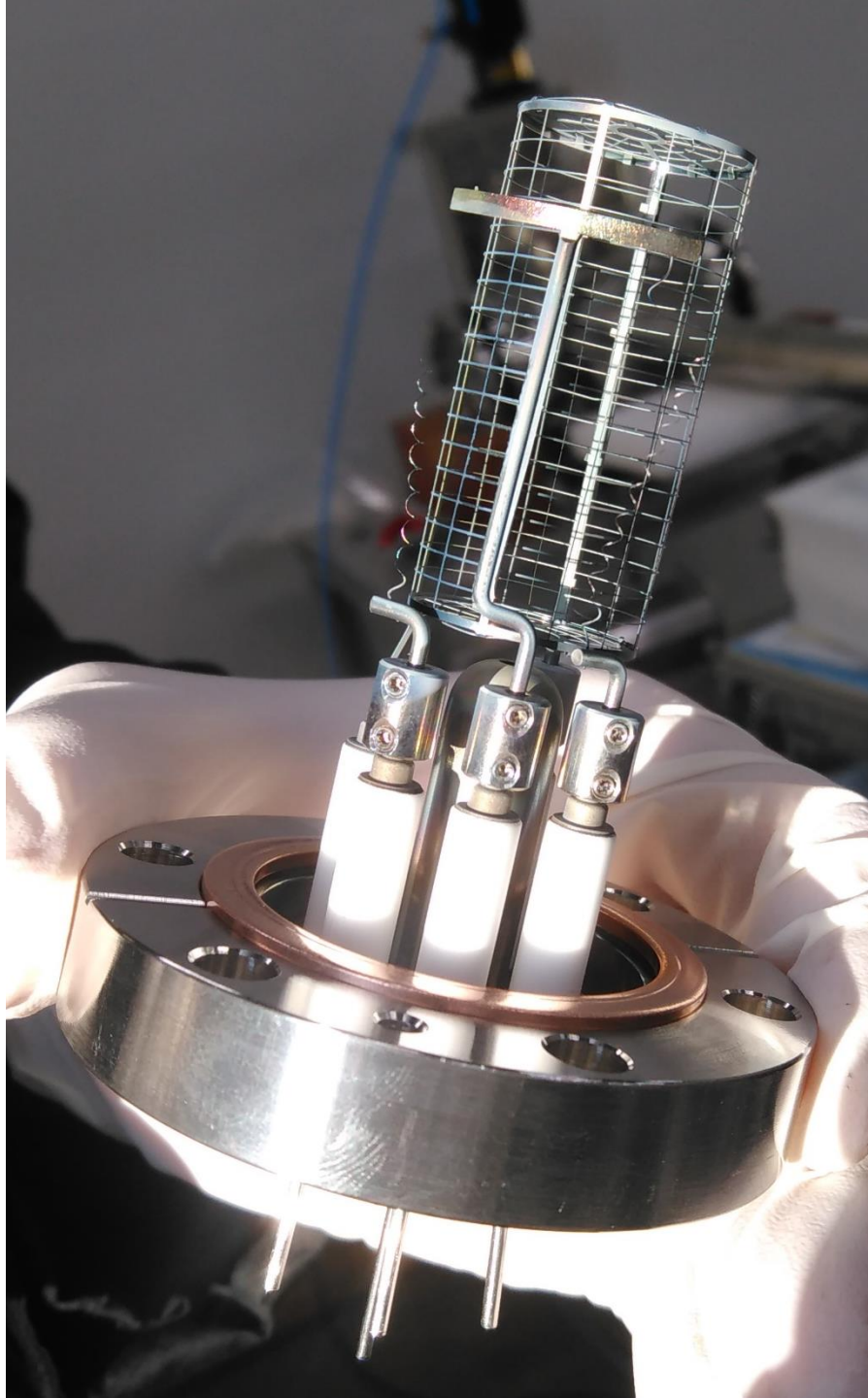
TC chart(mbar)

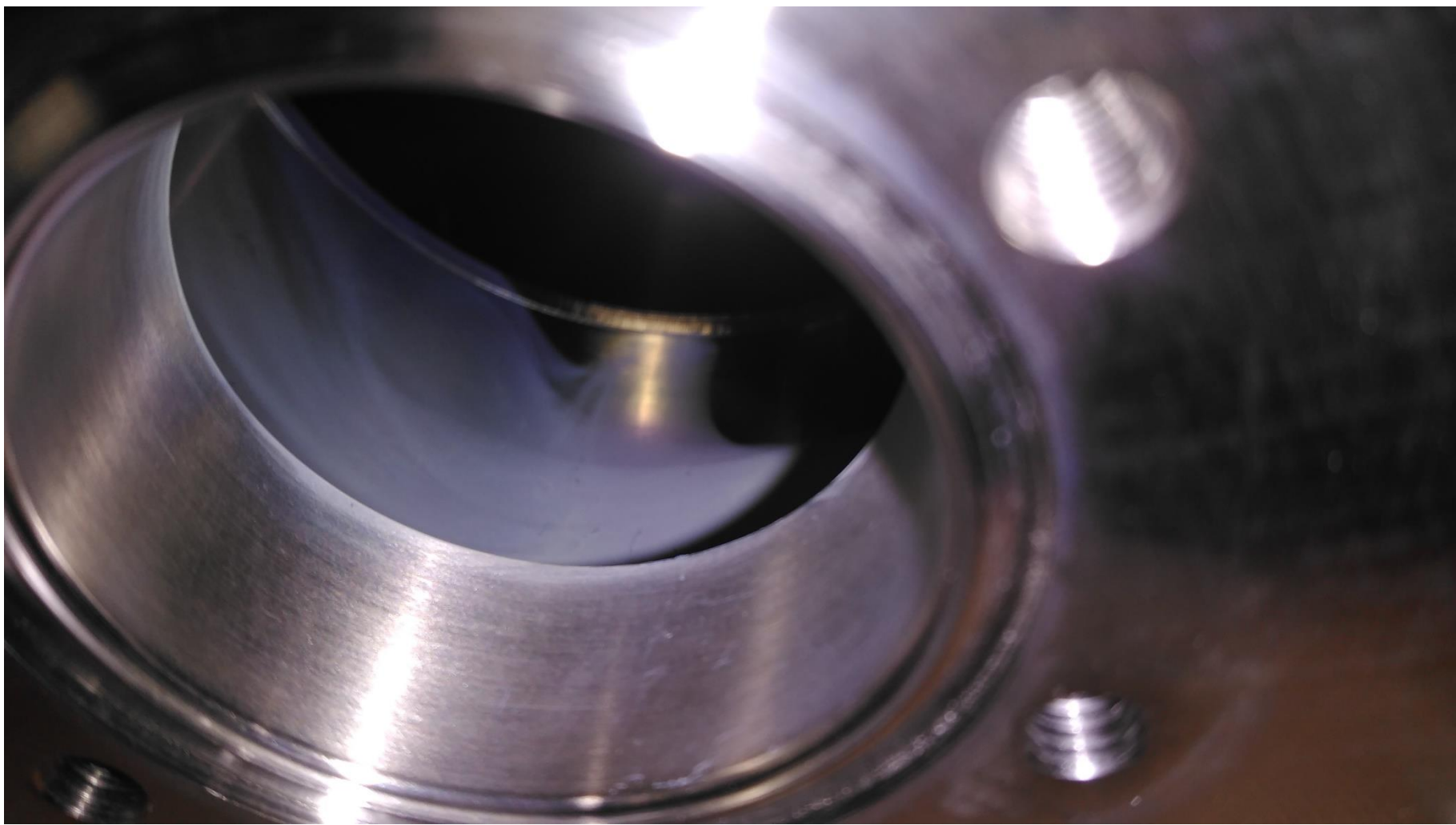
ION Monitoring

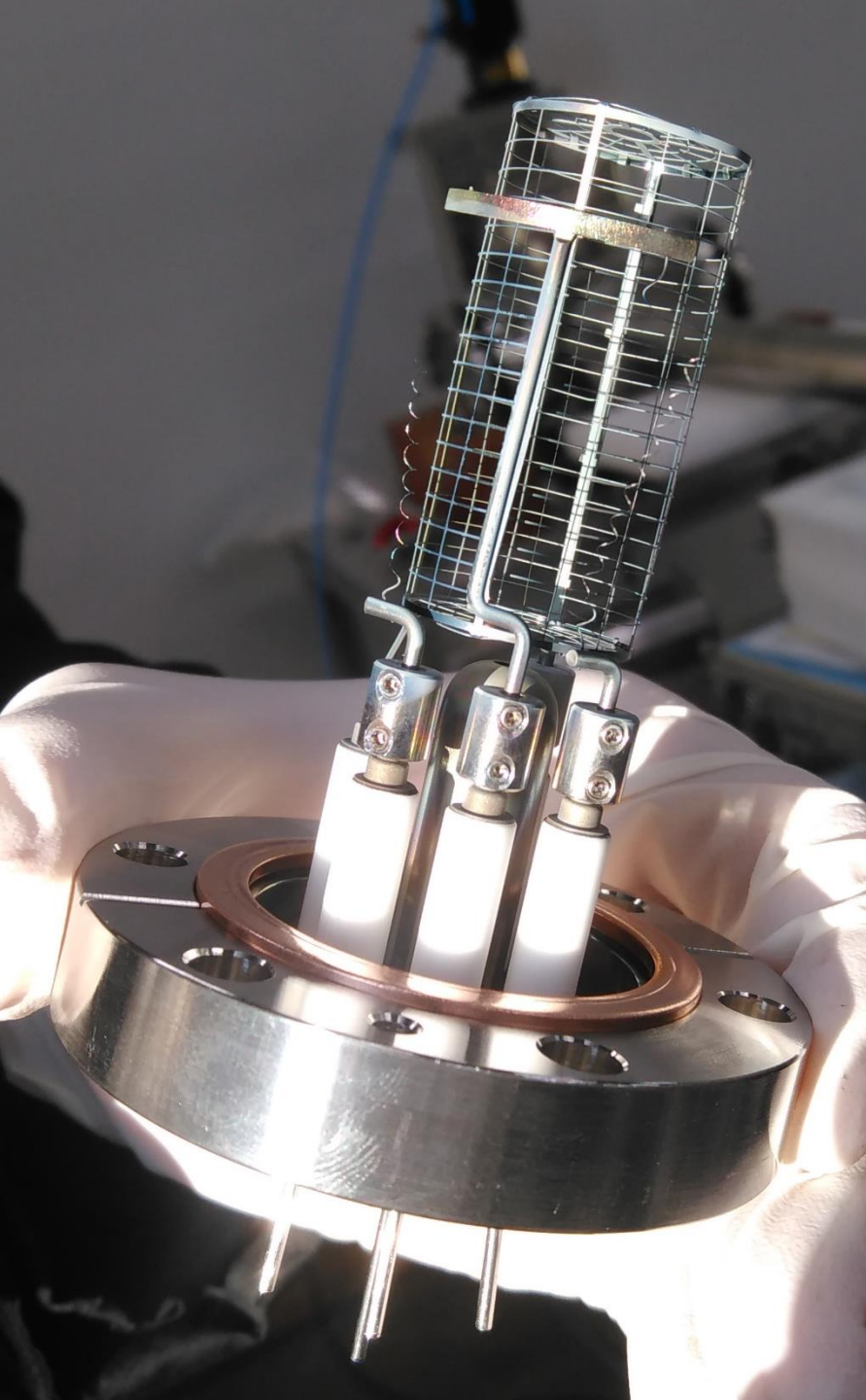
START



ION chart(mbar)







UHV-24p

5day at $1\text{E-}4 \rightarrow$ Burnt

- Manual: $1\text{E-}3 \sim 1\text{E-}4$ Emission current $\rightarrow 0.1 \text{ mA}$
 $1\text{E-}4 \sim$ Emission current $\rightarrow 4 \text{ mA}$ (default)
- Agilent: $1\text{E-}6 \sim$
 - Lifetime $\sim 2\text{yrs}$

Vacuum sequence

