

# 21 ANTENNAS FULLY OPERATIONAL



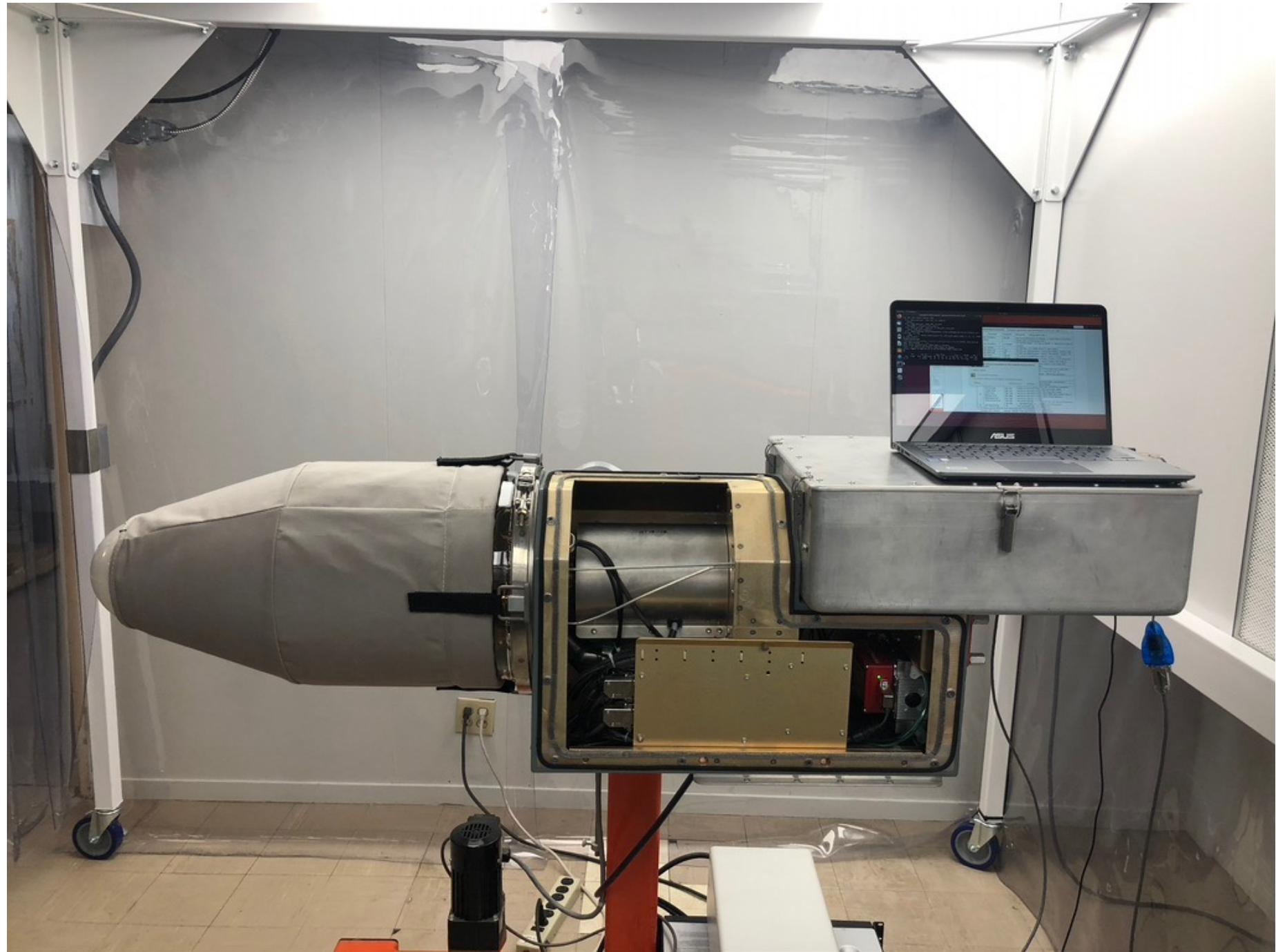
# General Update

- SPR
  - AC replacement JULY
  - IF RFCB tests
- Other
  - Antenna control box retrofit
  - 2x RFSoC UPDATE
  - Weather station ARRIVED
  - REU field trip to HCRO (Sarah will take over organization)
    - 27 of June to 3 of July
  - Berkeley House:
    - Quotes for: roof, asbestos removal, windows, electric wiring, new kitchen
- CHIME:
  - Agreement draft send to Chime
  - Need to get quotes for geotechnical survey
  - Construction permit minor modification
  - List of available equipment at HCRO
- Antonio Feed
  - Feed 015 installed at 1E DONE
  - Feed 003 installed at 1G DONE
  - Feed 020 installed at 3C DONE
  - Feed Base 001 retrofitted
  - PY-001 possible LNA problem
  - PY-018 needs coaxial module

- Antonio Feed Overview
    - 21 Antennas fully operational
    - 17 / 19 Antonio Feeds

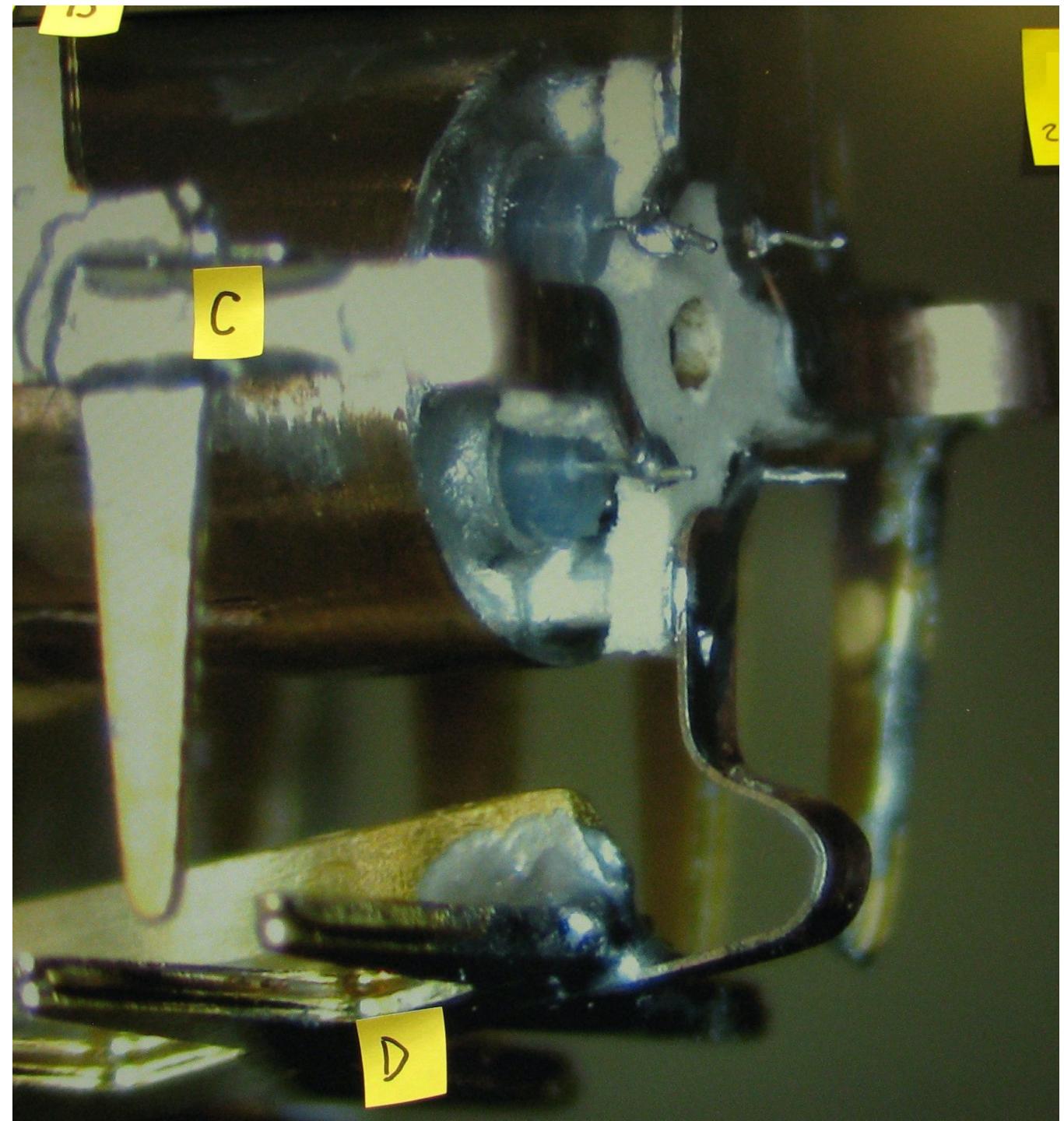
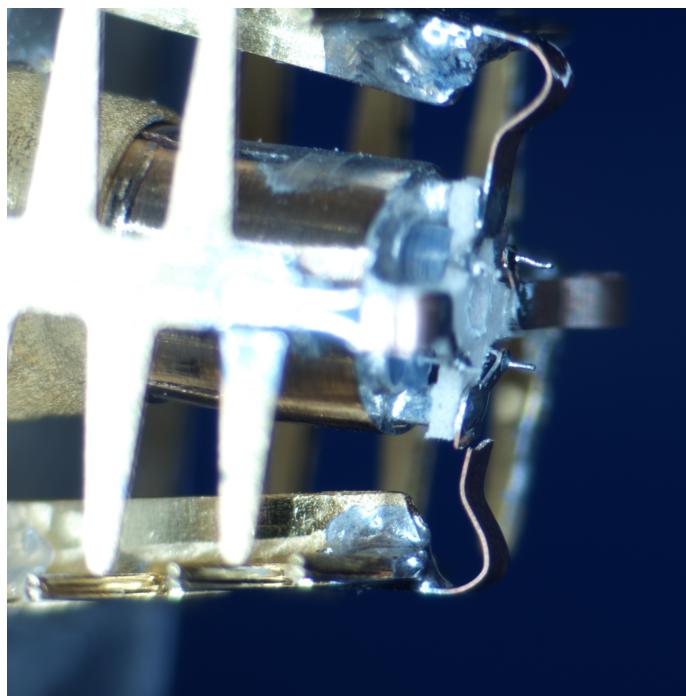
## Feed Base 001:

- new glass dome
- fully retrofitted



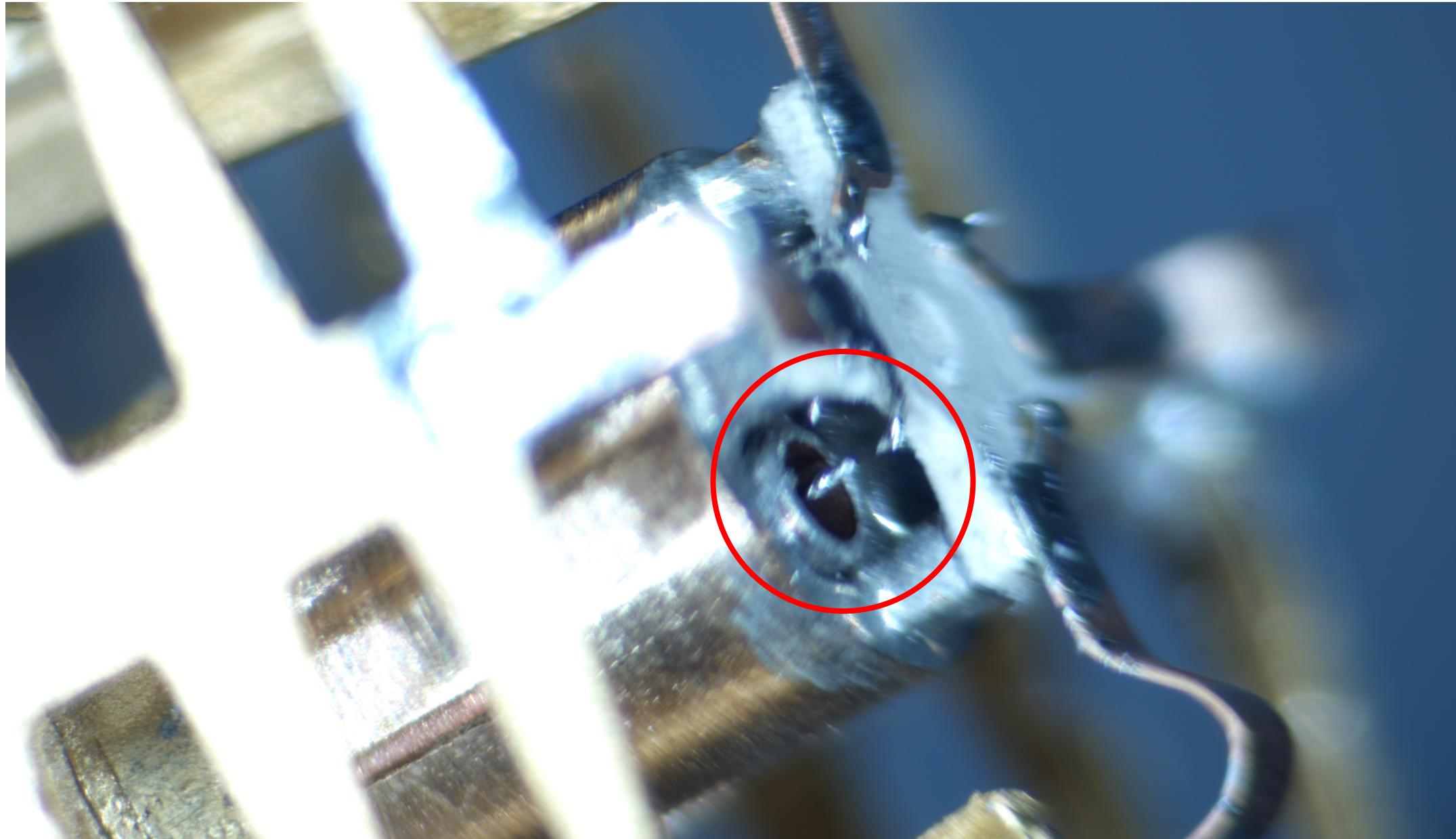
## Feed 020:

- Broken tip link
- Cryo-cooler was not well tuned
- Coax cable is fine
- Repair cost \$225



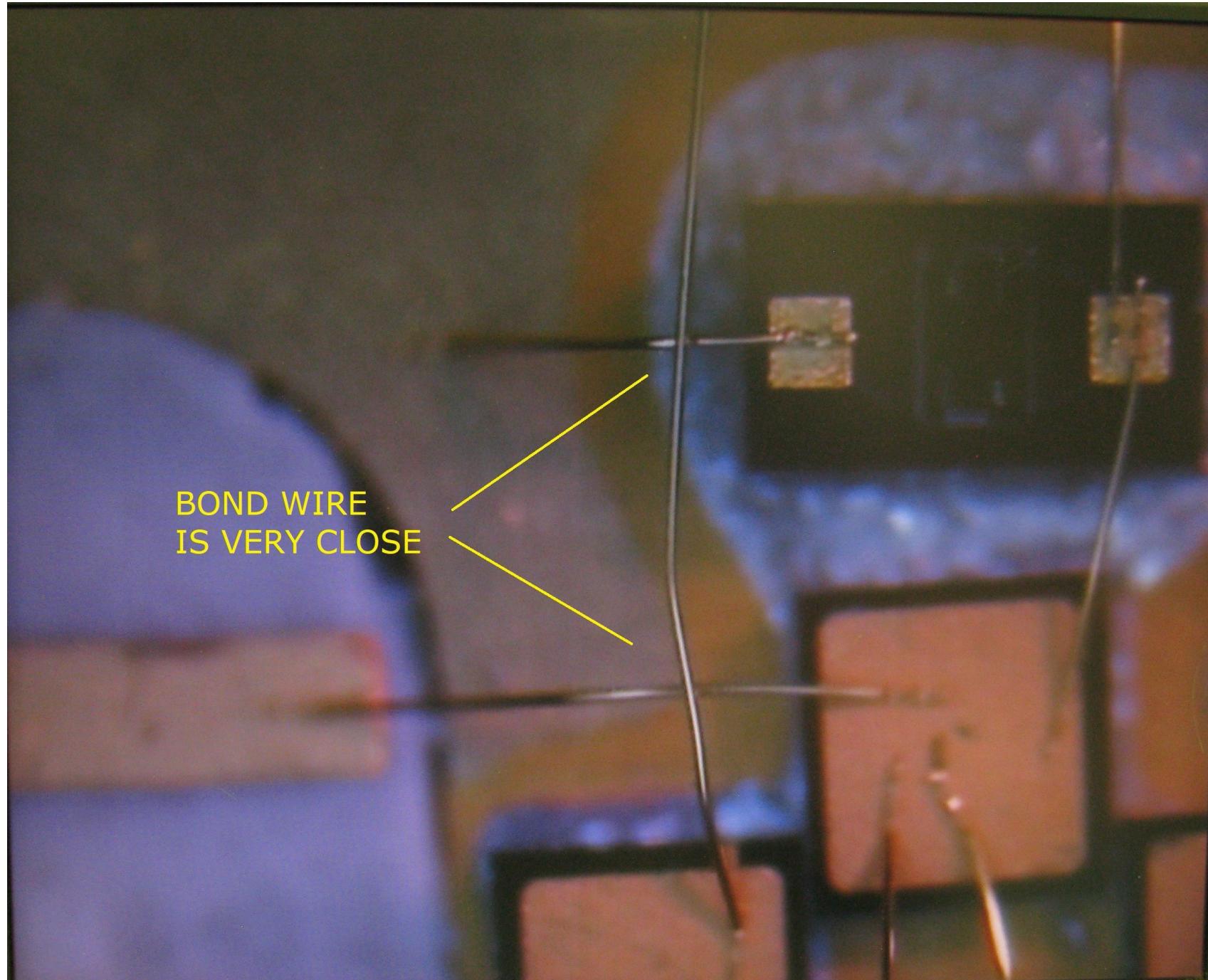
## Feed 018:

- Retracted further



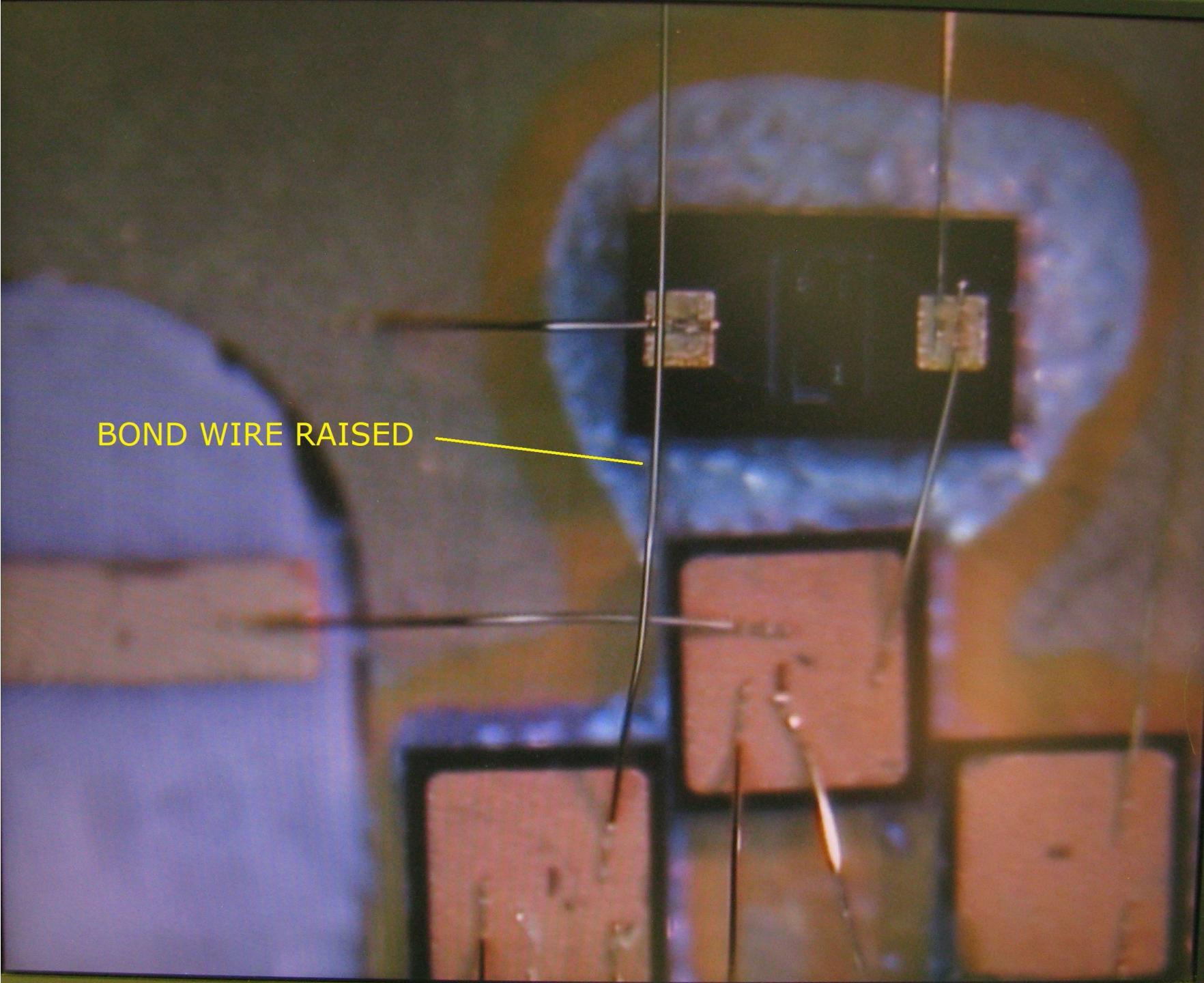
## Feed 001:

- Short circuit at “vd”



## Feed 001:

- Short circuit at “vd”



# DSP Update:

- 2 boards will be shipped today
- more boards available with 8 to 10 weeks lead time



# DSP Update:

- Mapping:

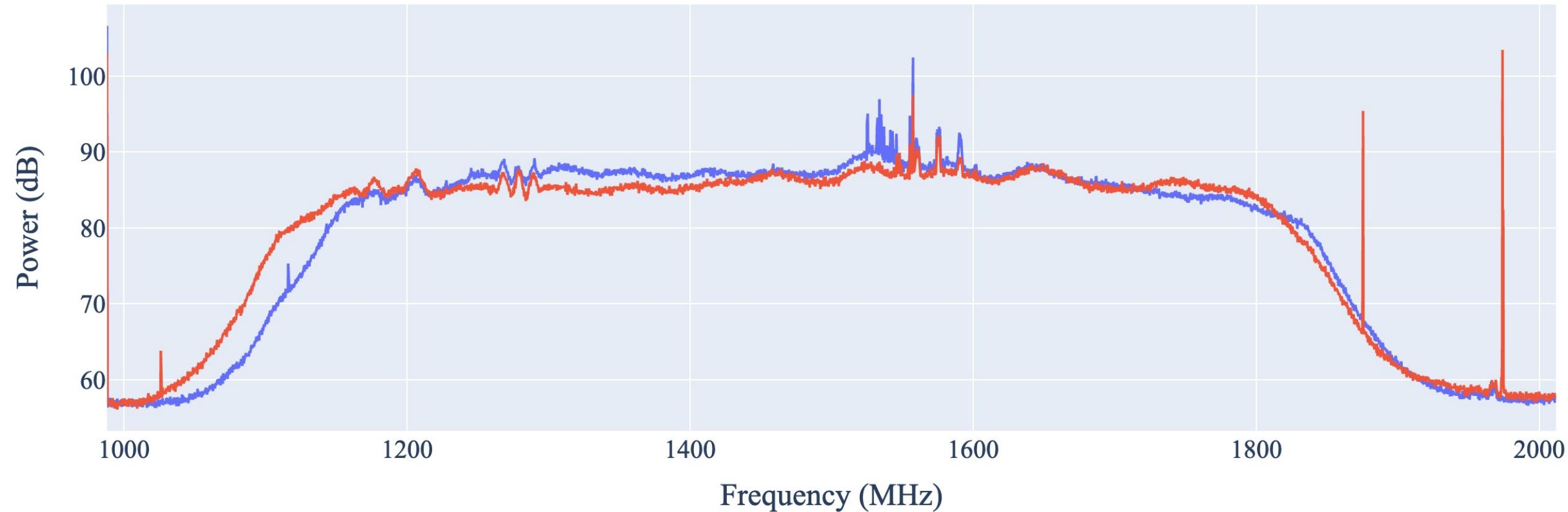
Digitizer	Antenna	Tuning
snap1	1a	a
snap2	1f	a
snap3	1c	a
snap4	2a	a
snap5	4j	a
snap6	2h	a
snap7	3d	a
snap8	4g	a
snap9	1k	a
snap10	5c	a
snap11	1h	a
snap12	2b	a

Digitizer	Antenna	Tuning
RFSoC1_1	1c	b
RFSoC1_2	1e	b
RFSoC1_3	1g	b
RFSoC1_4	1h	b
RFSoC1_5	1c	c
RFSoC1_6	1e	c
RFSoC1_7	1g	c
RFSoC1_8	1h	c
RFSoC2_1	1k	b
RFSoC2_2	2a	b
RFSoC2_3	2b	b
RFSoC2_4	2c	b
RFSoC2_5	1k	c
RFSoC2_6	2a	c
RFSoC2_7	2b	c
RFSoC2_8	2c	c
RFSoC3_1	2e	b
RFSoC3_2	2h	b
RFSoC3_3	2j	b
RFSoC3_4	2k	b
RFSoC3_5	2e	c
RFSoC3_6	2h	c
RFSoC3_7	2j	c
RFSoC3_8	2k	c
RFSoC4_1	2l	b
RFSoC4_2	2m	b
RFSoC4_3	3c	b
RFSoC4_4	3d	b
RFSoC4_5	2l	c
RFSoC4_6	2m	c
RFSoC4_7	3c	c
RFSoC4_8	3d	c

Digitizer	Antenna	Tuning
RFSoC4_1	2l	b
RFSoC4_2	2m	b
RFSoC4_3	3c	b
RFSoC4_4	3d	b
RFSoC4_5	2l	c
RFSoC4_6	2m	c
RFSoC4_7	3c	c
RFSoC4_8	3d	c
RFSoC5_1	3l	b
RFSoC5_2	4j	b
RFSoC5_3	5b	b
RFSoC5_4	4g	b
RFSoC5_5	3l	c
RFSoC5_6	4j	c
RFSoC5_7	5b	c
RFSoC5_8	4g	c

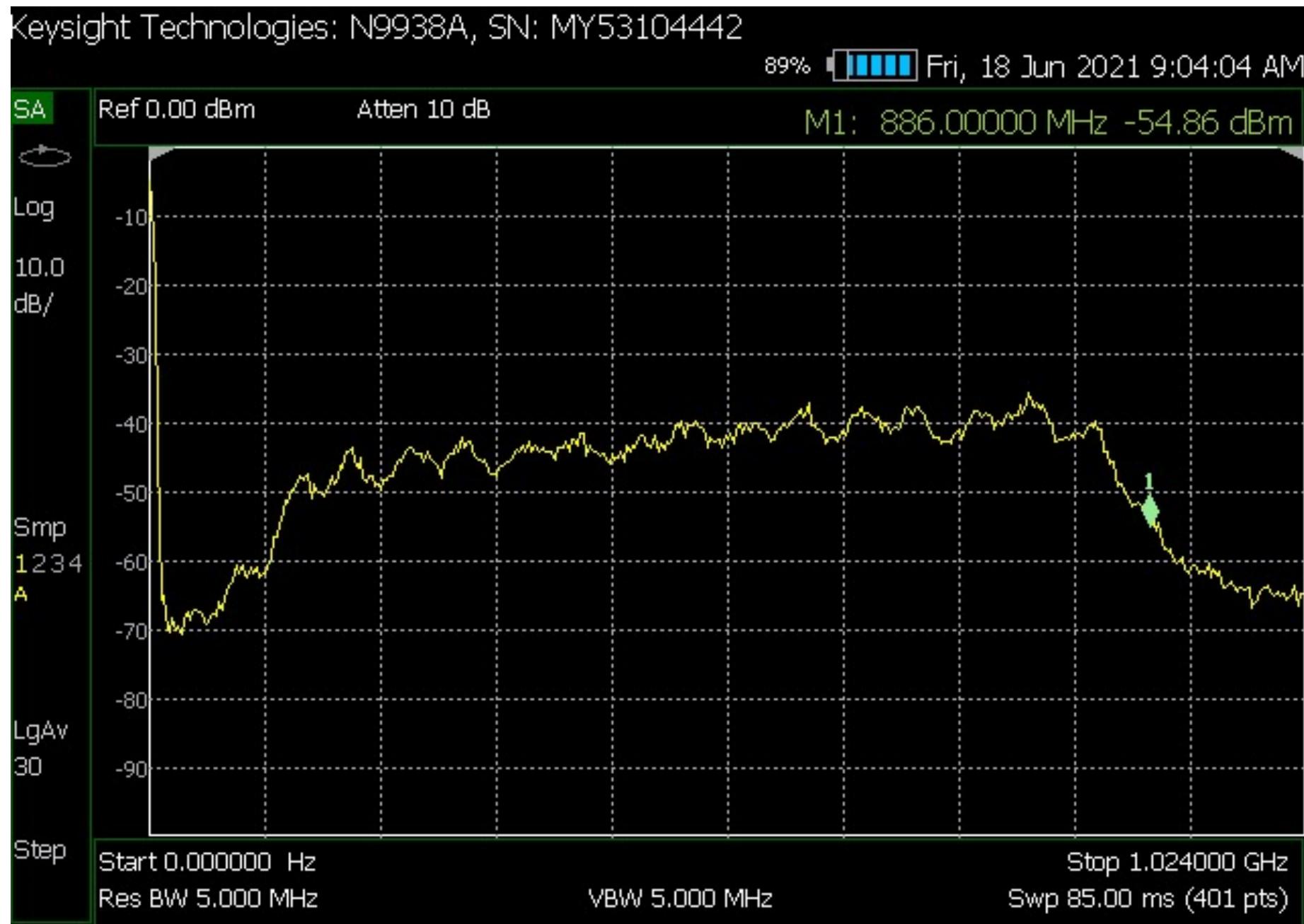
# RFCB IF measurements:

**Antenna: 1f --- Snap: frb-snap2-pi --- LO: a, cfreq: 1500.0000**



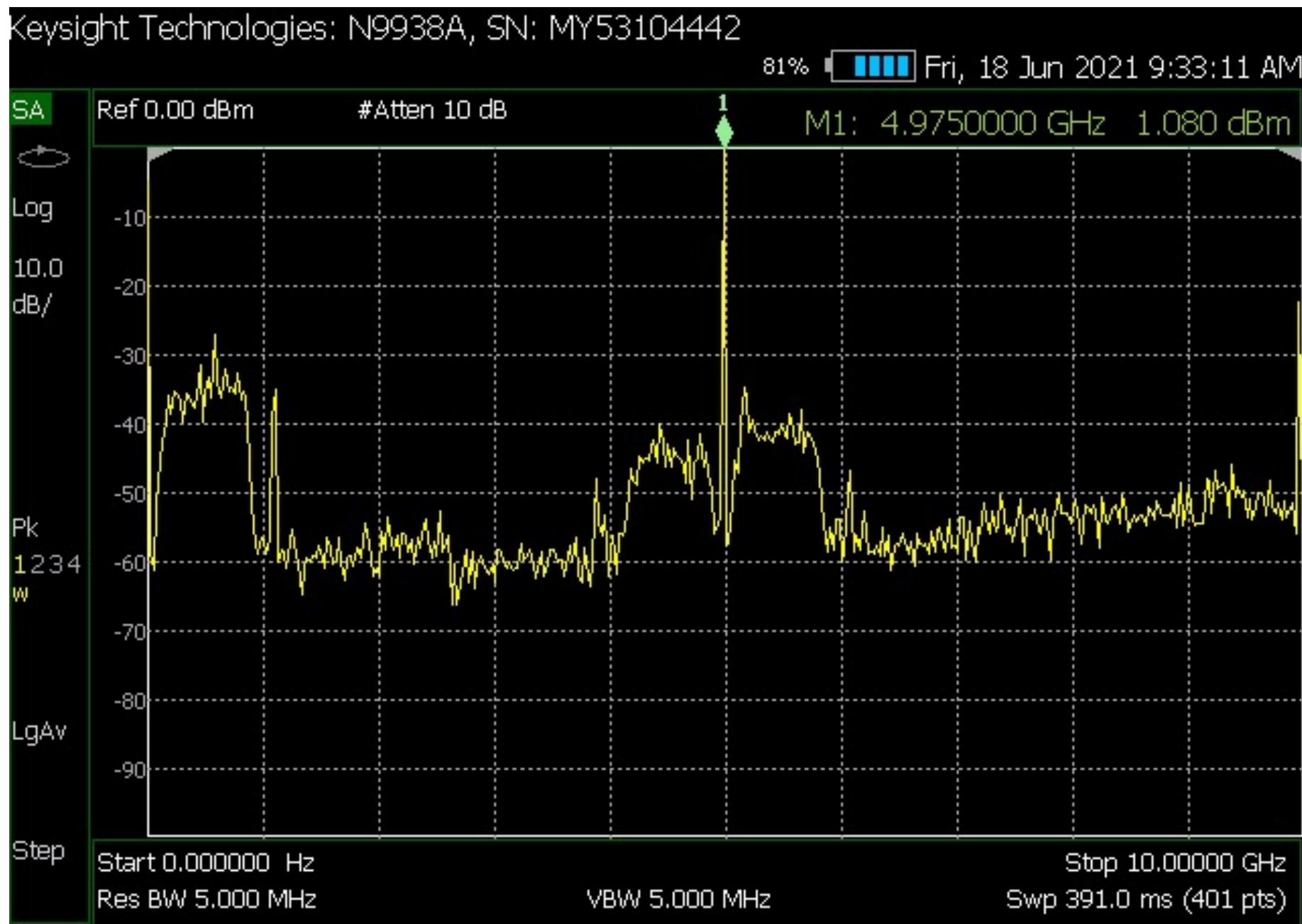
## RFCB IF measurements:

- 1F – Y-pol: A



## RFCB IF measurements:

- 1F – Y-pol: A



## RFCB IF measurements:

- 1F – Y-pol: B

