

# General Update

- SPR
  - Install of additional 30A sockets for rack power supply
- NRDZ
  - Additional rack for NRDZ storage nodes and equipment
  - Received USRP and RPI to connect to omnidirectional antenna
  - Need to setup NRDZ network environment (VLAN)
  - CU Boulder people will visit 28-30 of Oct.
- Other
  - Wire harness construction for Antonio Feeds
  - Sunbrella alternatives
  - Smog and registration HCRO truck...
- Documentation:
  - Uploaded memos to GitHub
  - In process of writing up Attemplifier and RFSOC design
- CHIME:
  - Agreement waiting to hear back from McGill
  - Geotechnical quote ready will move forward
  - Clearing field quote ready
  - Shasta County Use Permit APPROVED
- Antonio Feed
  - Feed 007 retuned and installed on 3L
  - 6 additional feed pyramids at Global-Plating
  - Planning phase for construction of three additional feeds using spare parts.
  - Testing LNAs for new build pyramids
- Get anechoic chamber from Minex
- 2K still needs investigation
- ATA full buildout
  - PAM design and prototype
  - PAX control board (Mike / Todd)
  - Drive box control board
  - Control box replacement PCB ordered
  - Antenna PSU retrofit



## Sunbrella measurements:

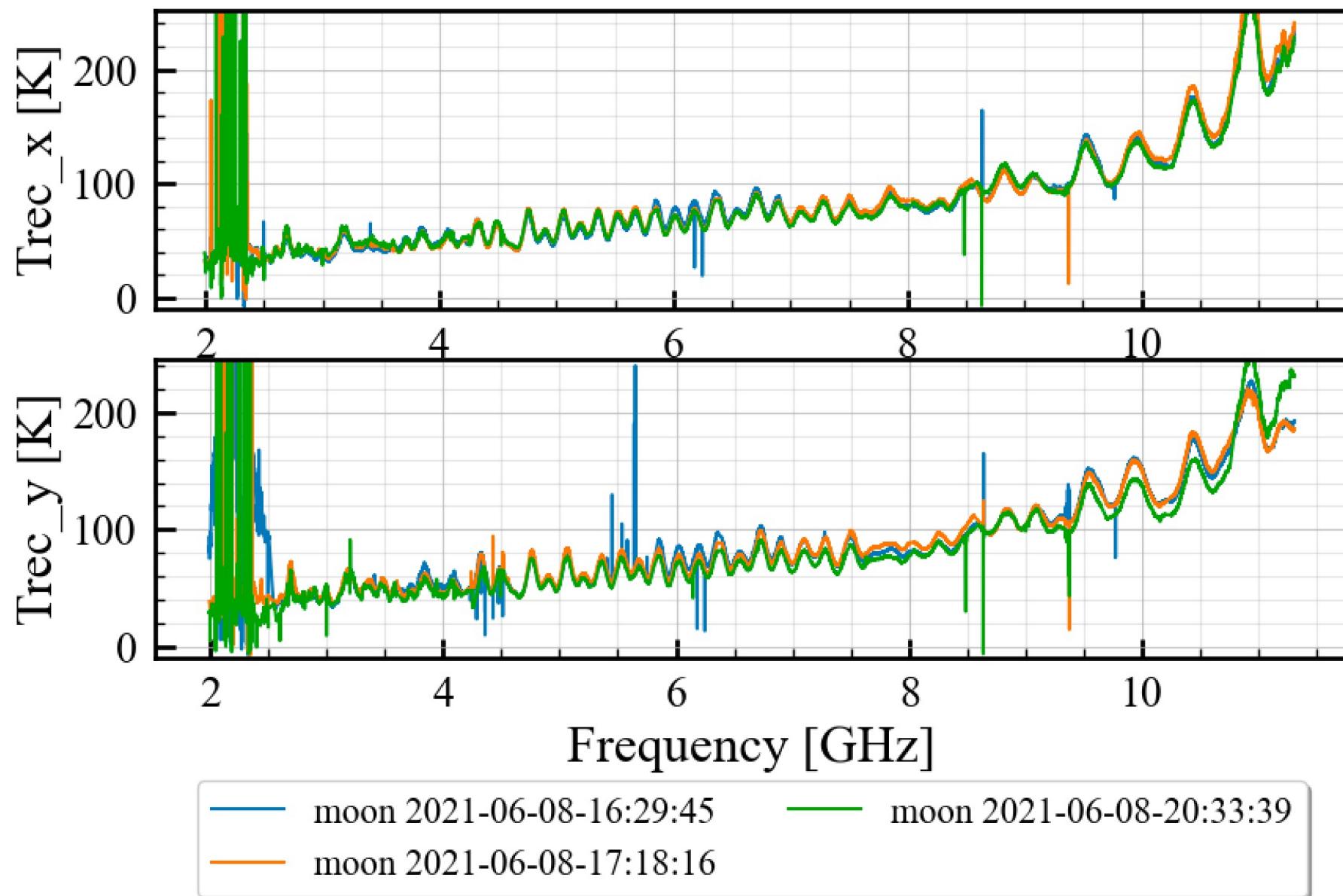
- SEFD with and without dry sunbrella



## Sunbrella measurements:

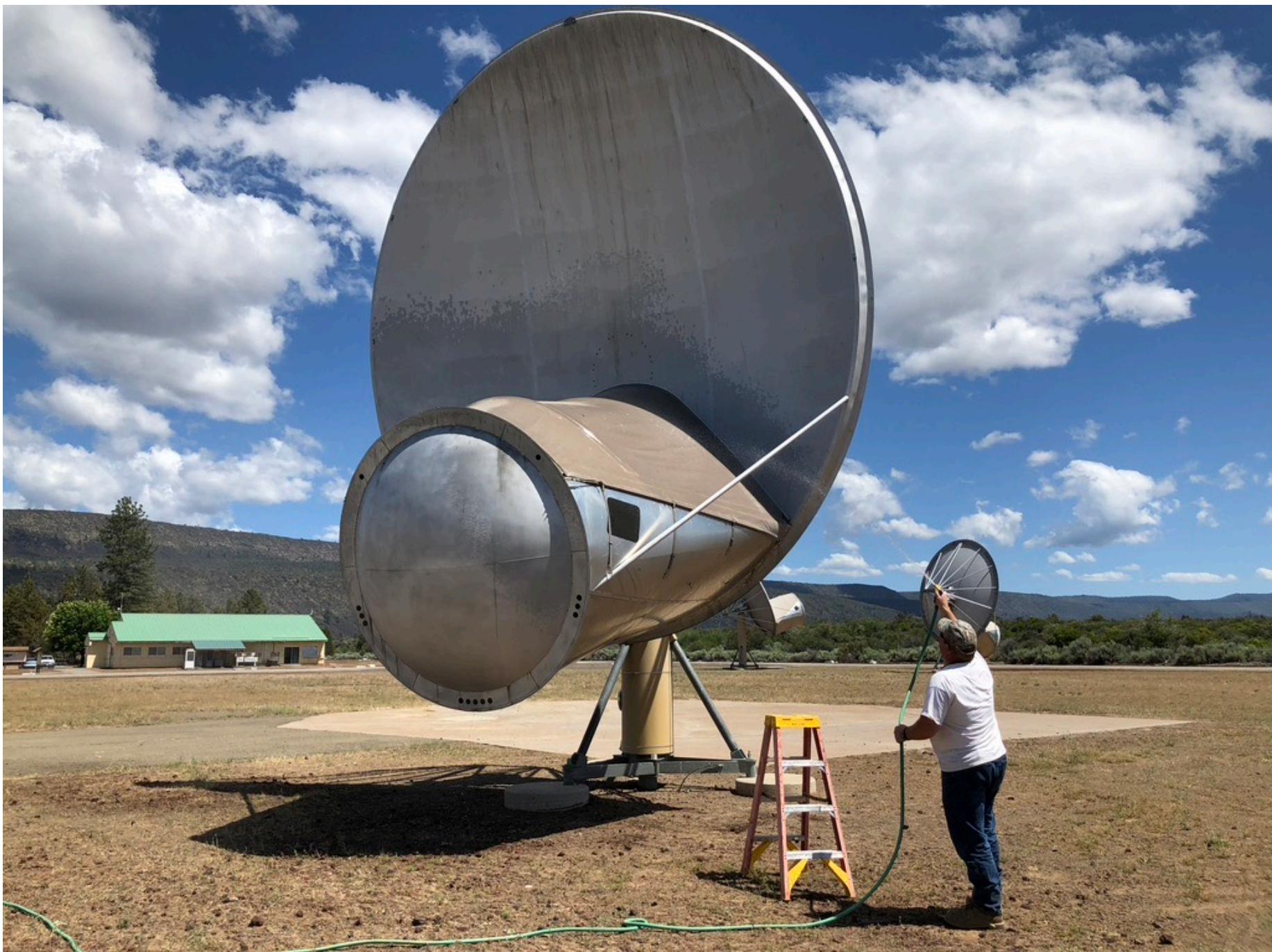
- SEFD with and without dry sunbrella
- Blue + Orange => without sunbrella
- Green => with sunbrella

2b



## Sunbrella measurements:

- SEFD with wet sunbrella



## Sunbrella measurements:

- SEFD with wet sunbrella



## Sunbrella measurements:

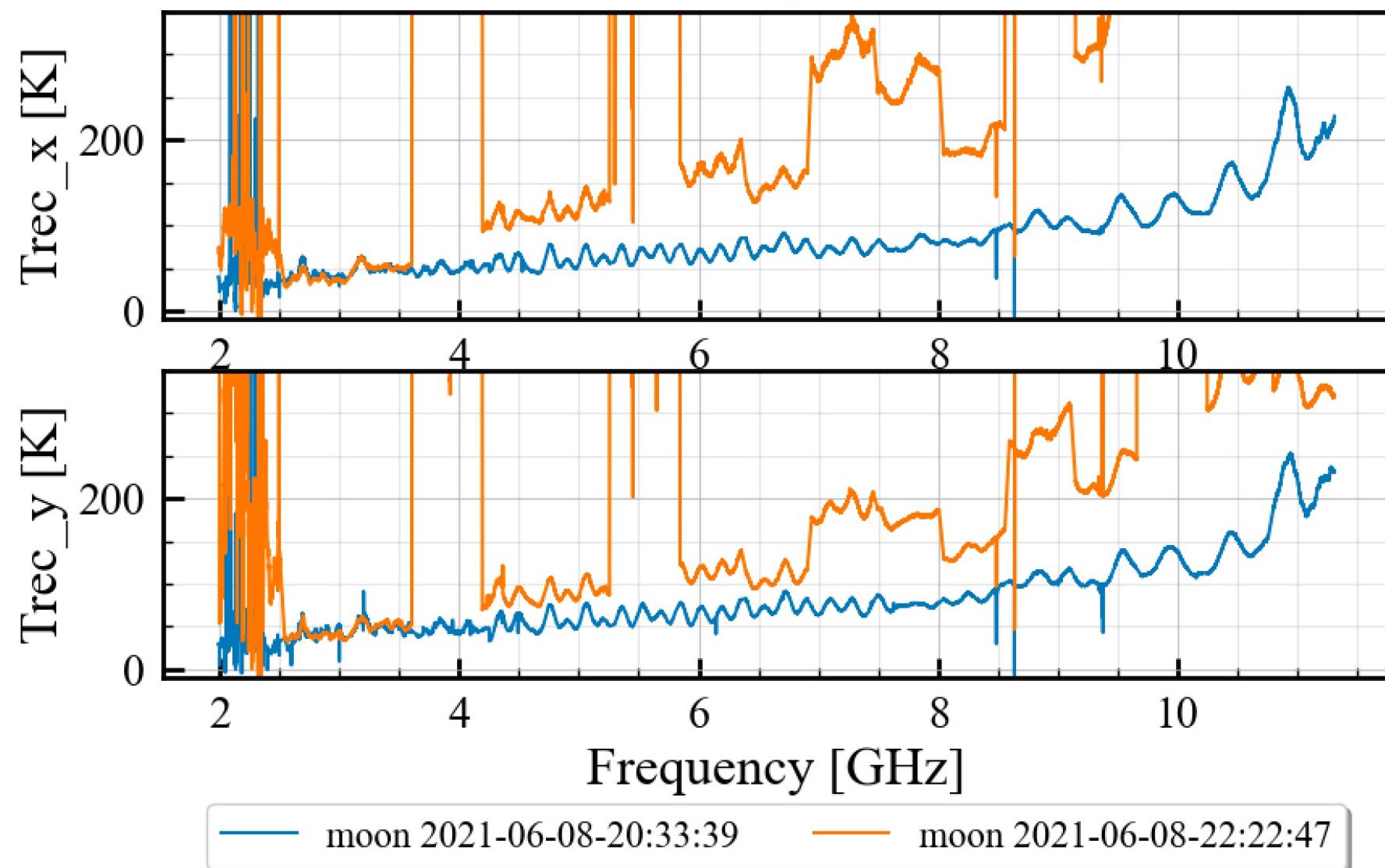
- SEFD with wet sunbrella



## Sunbrella measurements:

- SEFD with dry and wet sunbrella
- Blue => dry sunbrella
- Orange => wet sunbrella

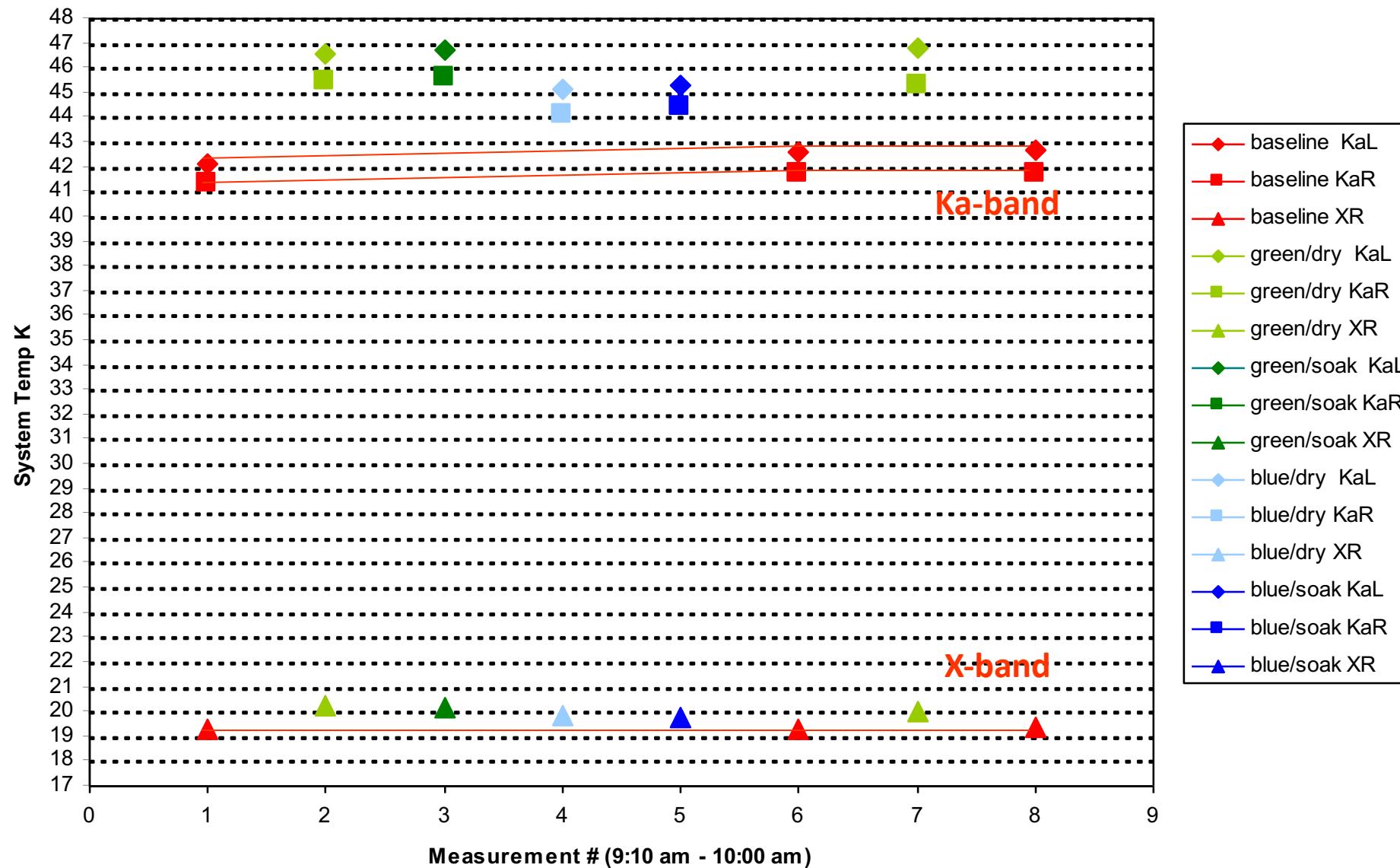
2b



### Sunbrella Fabric Tests

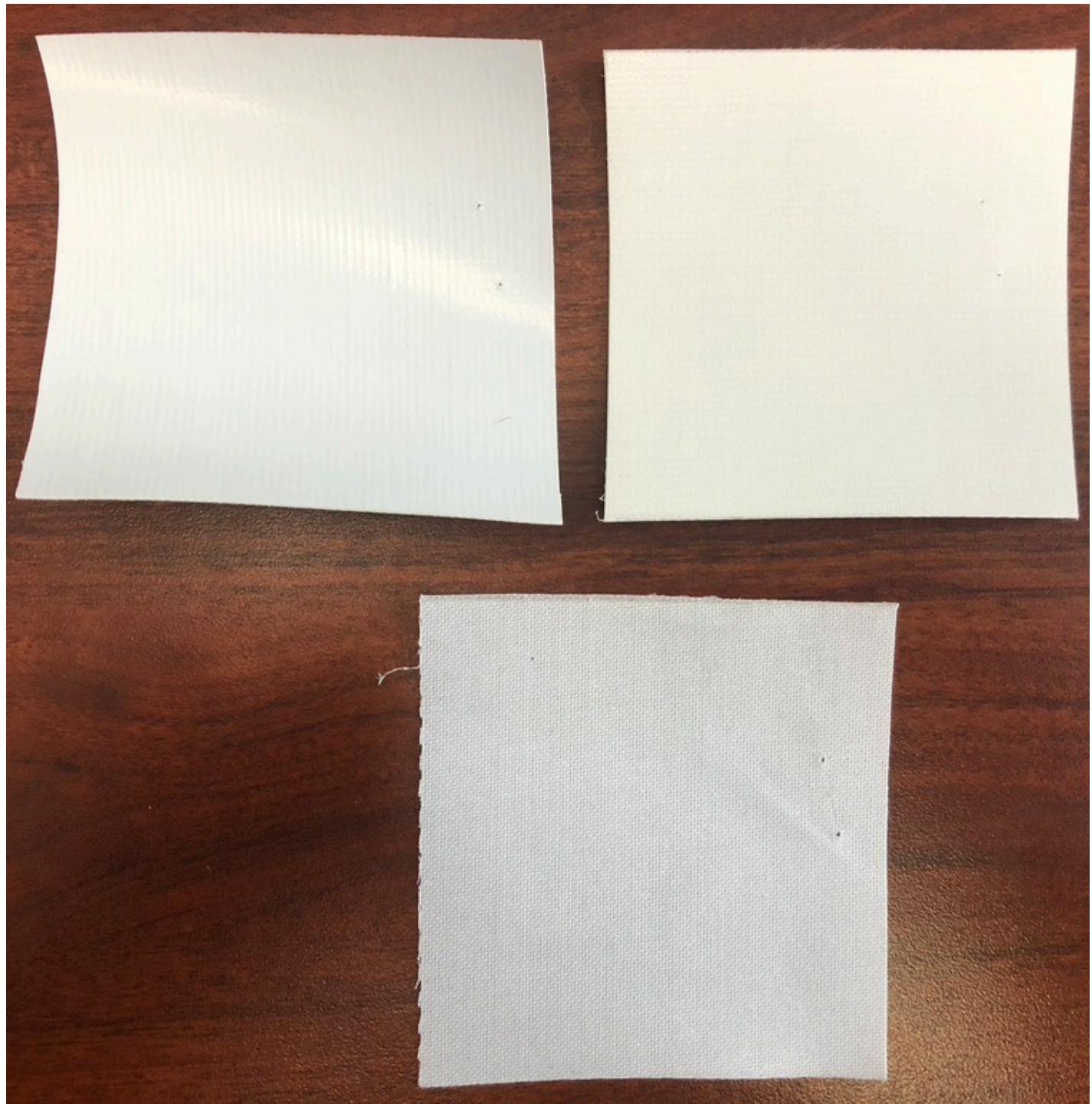
Blue = Sunbrella

Green = Marine Sunbrella



## Sunbrella alternatives:

- SEFAR EL-40-T1
- Architectural Tedlar Fabric
- Architectural Kynar Fabric



## Sunbrella alternatives:

- SEFAR EL-40-T1 (0.25mm)
- Architectural Tedlar Fabric (0.6mm)
- Architectural Kynar Fabric (0.5m)



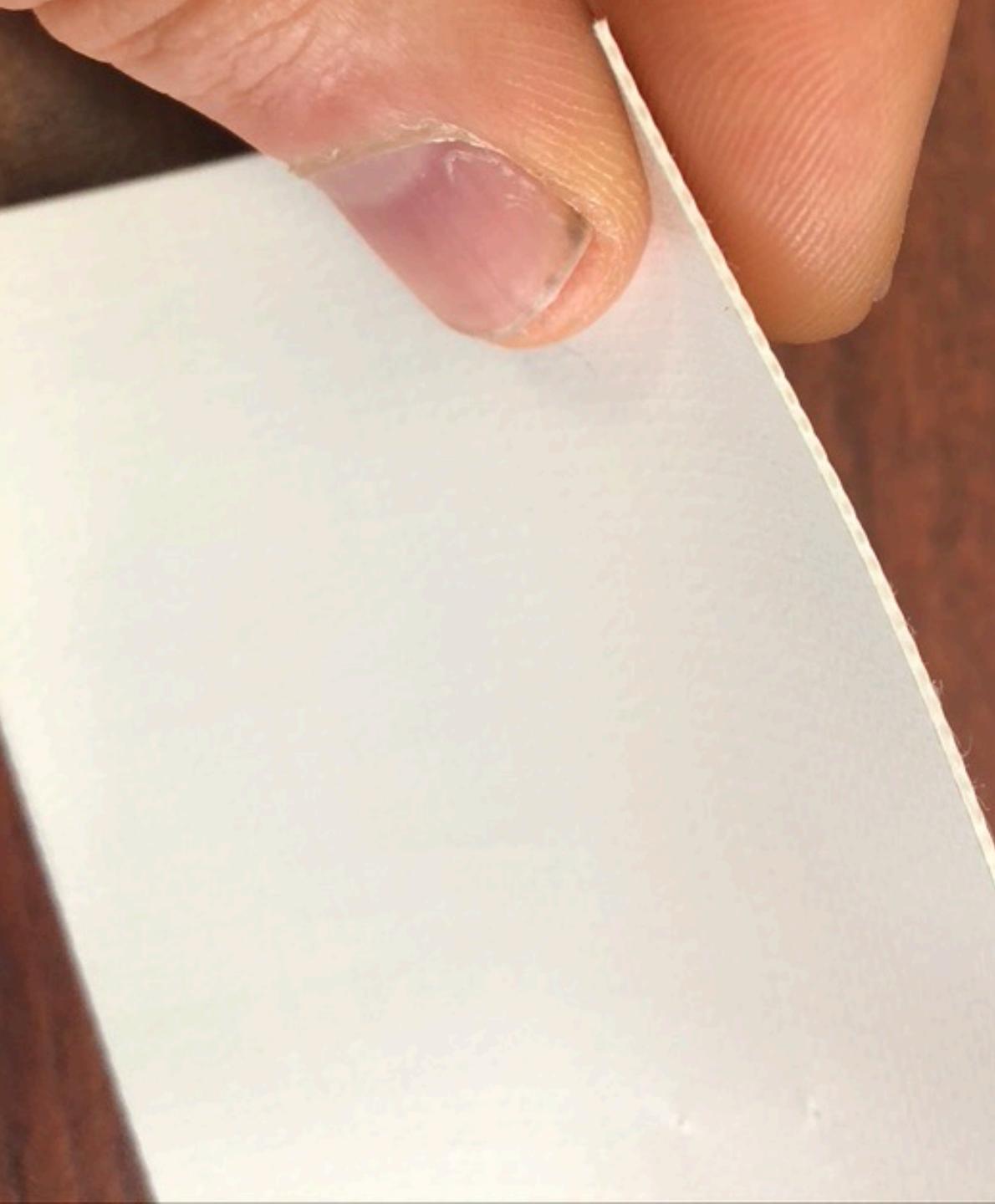
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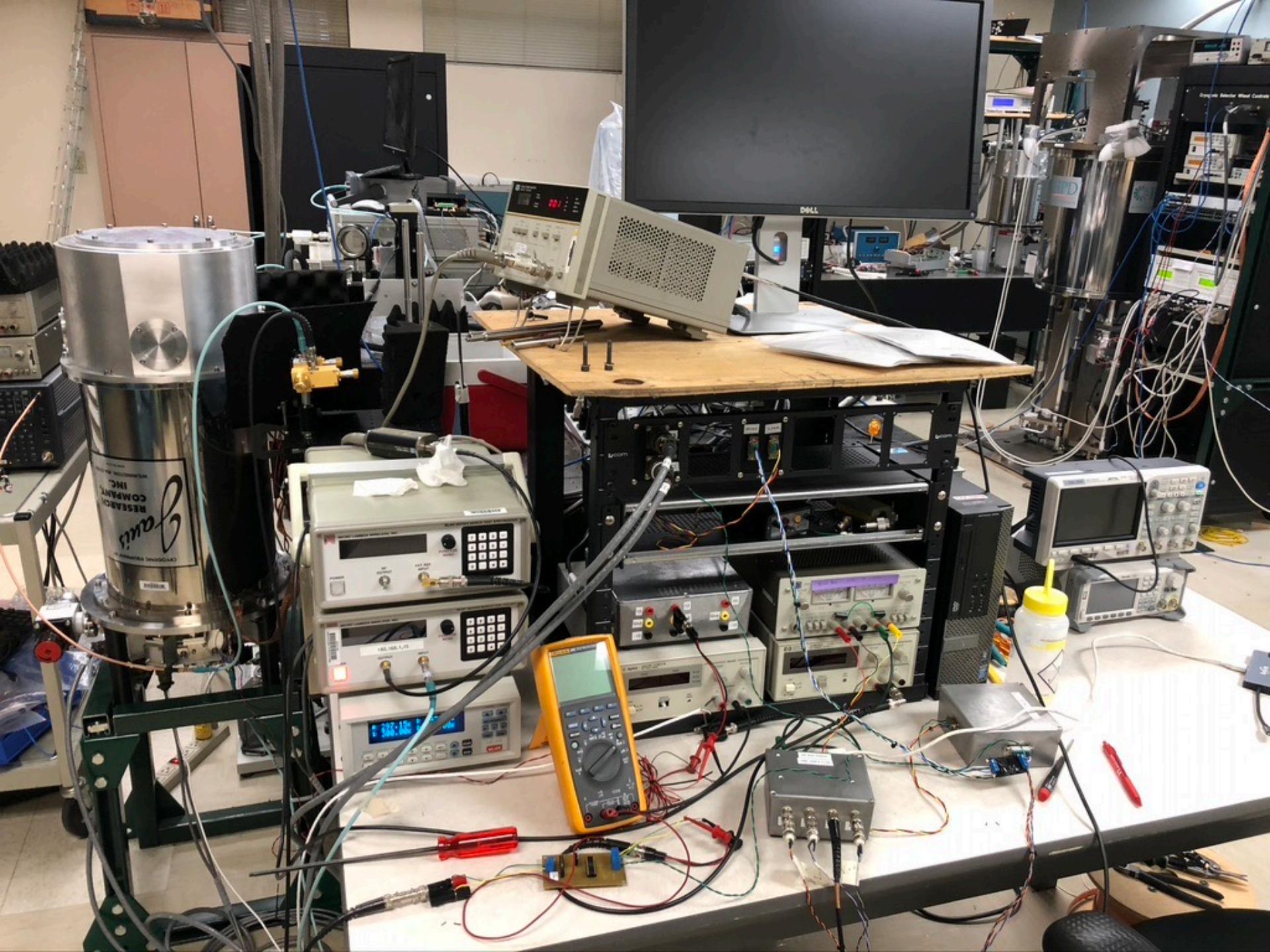
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- Architectural Kynar Fabric (0.5m)



LNA measurements:



SMA lab at Harvard:



# SMA lab at Harvard:

