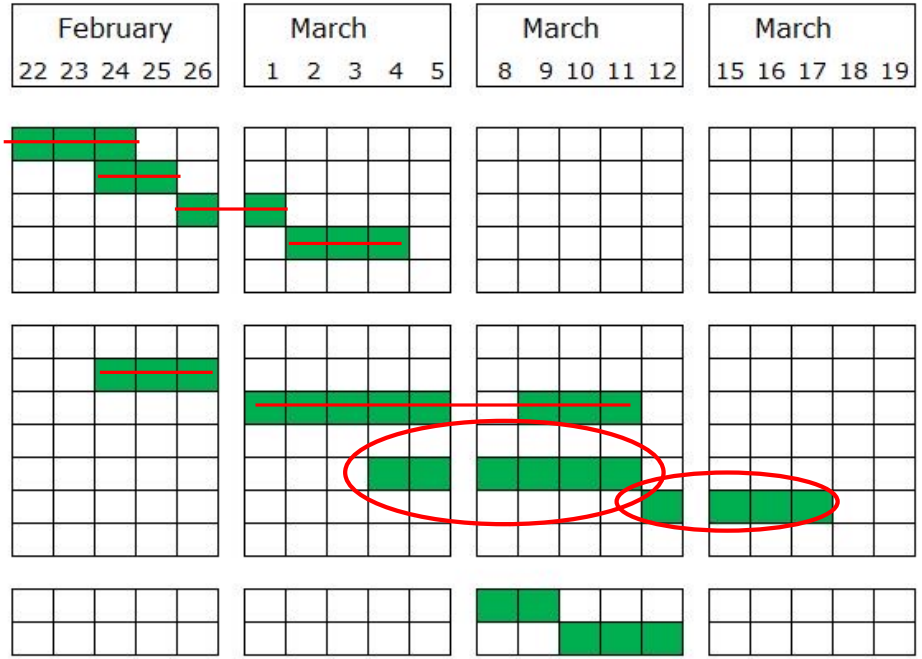
General Update

- SPR
  - Engineering downtime
    - Sort out RF fiber cables from patch panel to RFCB
  - AC replacement
- Other
  - HTG lead-time 3 weeks order placed for 2 units
  - Order placed for 2 RFSoC enclosures
  - Order placed for 5 Attemplifier (16 channel) modules
    [Linear power supply has long lead time]
  - Next week, start building component groups for Attemplifier and RFSoC enclosure.
- Design work:
  - Weather station data connection and power supply
    - LNA test jig
- Antonio Feed
  - Need to investigate feed 016 LNAs
  - Update feed firmware with longer vacuum times
  - Install new pyramids in feeds:
    - Test vacuum (24h)
    - Install on antenna and cool down(24h)
    - Tsys measurement with absorber

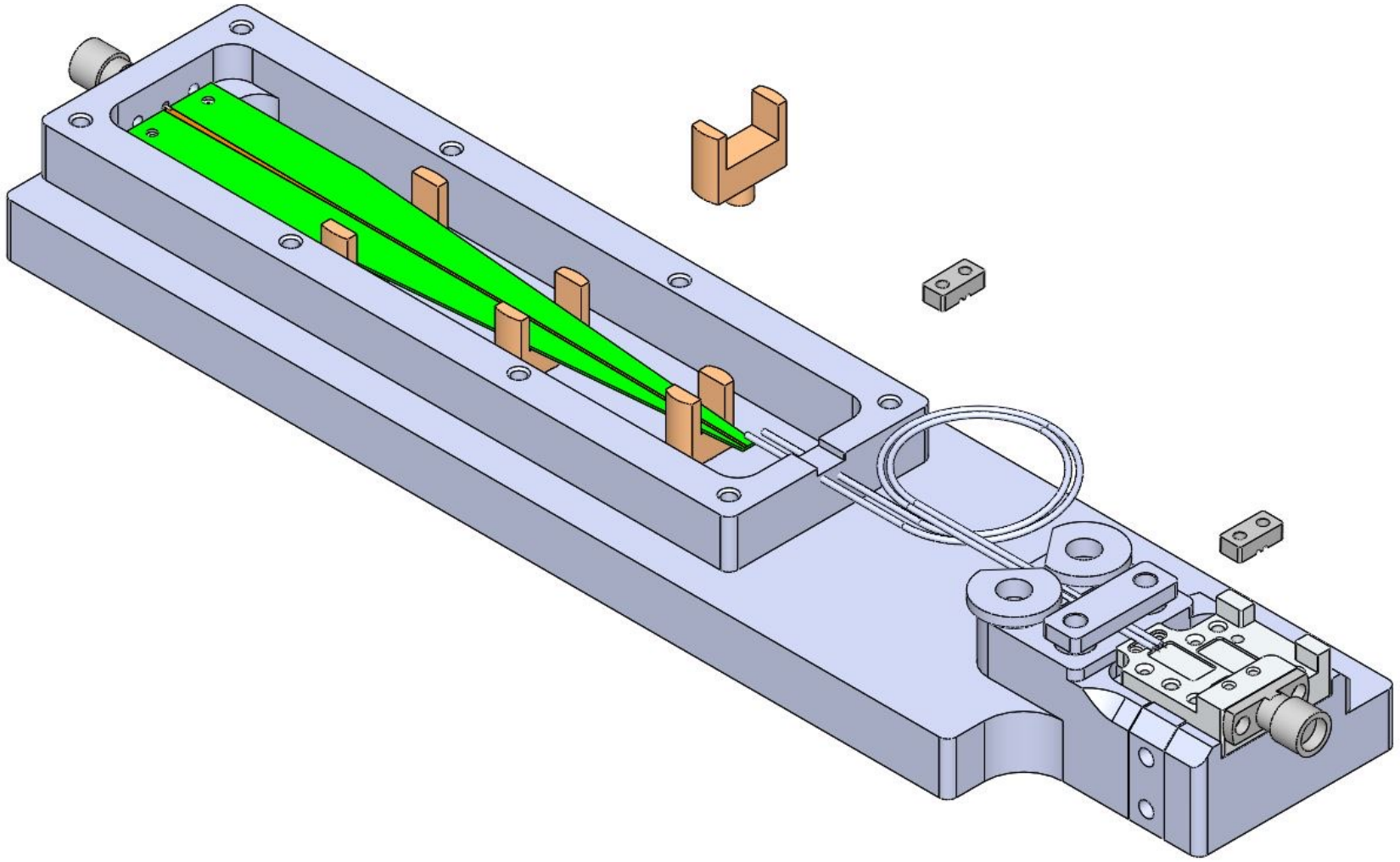
Feed List		Feed Revision Overview							
Number	Installed Ant.	Tip-Link: R03	Temp S. Isolation	New Harness	Bellow Removed	Cryo Tuned	Firmware 5.4	Gold-Plated	Preconditioned Coax
5C4-002	Minex	In Progress						x	In Progress
5C4-003	Feed Lab	In Progress	x	x	x	x	x	x	In Progress
5C4-004	2B	x	x	x	x	x	x	x	x
5C4-005	2A								
5C4-006	4J	x	x	x	x	x	x	x	x
5C4-007	3L	x	x	x	x	x	x	x	x
5C4-008	2M	x	x	x	x	x	x	x	x
5C4-009	Feed Lab	In Progress	x	x	x	x	x	x	In Progress
5C4-010	Feed Lab	In Progress	x	x	x	x	x	x	In Progress
5C4-011	2J	x	x	x	x	x	x	x	x
5C4-012	1K	x	x	x	x	x	x	x	NA
5C4-013	1H	x	x	x	x	x	x	x	x
5C4-014	2E	x	x	x	x	x	x	x	x
5C4-015	Feed Lab	In Progress	x	x	x	x	x	x	In Progress
5C4-016	Feed Lab	x	x	x	x	x	x	x	x
5C4-017	Feed Lab	In Progress	x	x	x	x	x	x	In Progress
5C4-018	2H	x	x	x	x	x	x	x	NA
5C4-019	1C		x	x	x	x			
5C4-020	3C	x	x	x	x	x	x	x	x

Minex Engineering Schedule for SETI Work:

Quote	Purchase	Qty	Description
	PO 3600	40 ea	Fabricate new coax cables.
		3 ea	Install new coax on existing LNAs.
		3 ea	Fabricate new LNA Modules.
		3 ea	Feed complete with Modules & tip links.
			Feed SN 008, 011, 014
			Recive new LNAs and modify coax.
210201A	PO 3626	6 ea	Prep pyramid & arms for plating.
		6 ea	Pyramids & arms to plater.
			Feed SN 001, 003, 010, 016, 017, ???
210202A	PO 3627	6 ea	Fabricate new LNA Modules.
		6 ea	Feed complete with Modules & tip links.
			Feed SN 001, 003, 010, 016, 017, ???
210203A	PO 3628	6 ea	Pyramid, solder and complete.
		6 ea	Arm sets, solder and complete.



LNA test Jig:



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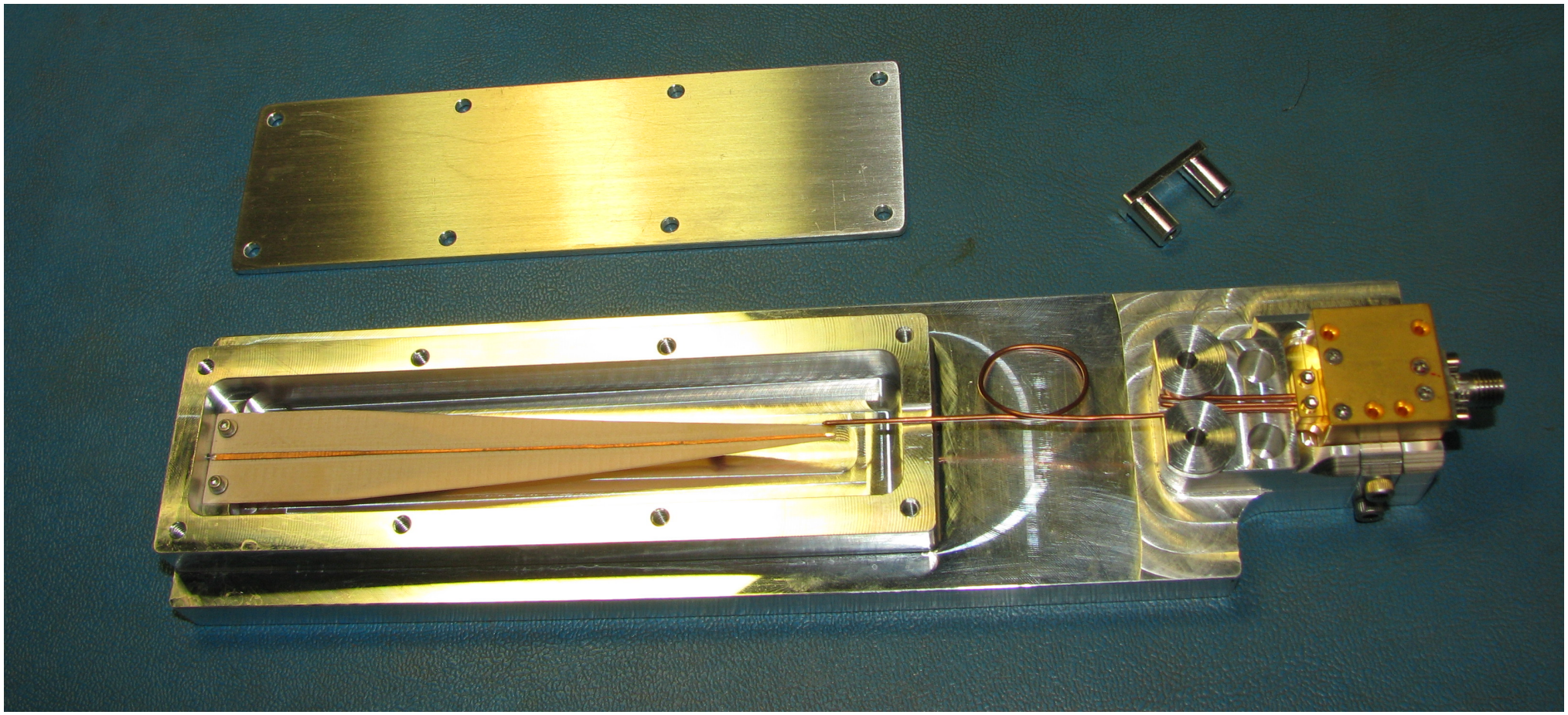
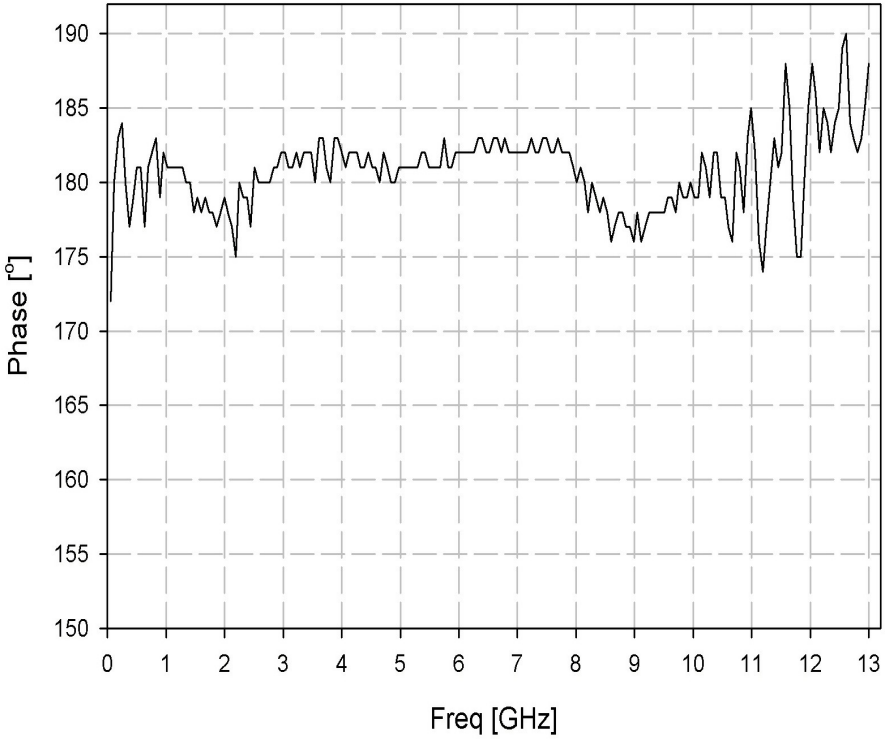


LNA test Jig: https://github.com/SETIatHCRO/Front-Page/tree/master/Analog-Signal-Components/Balun



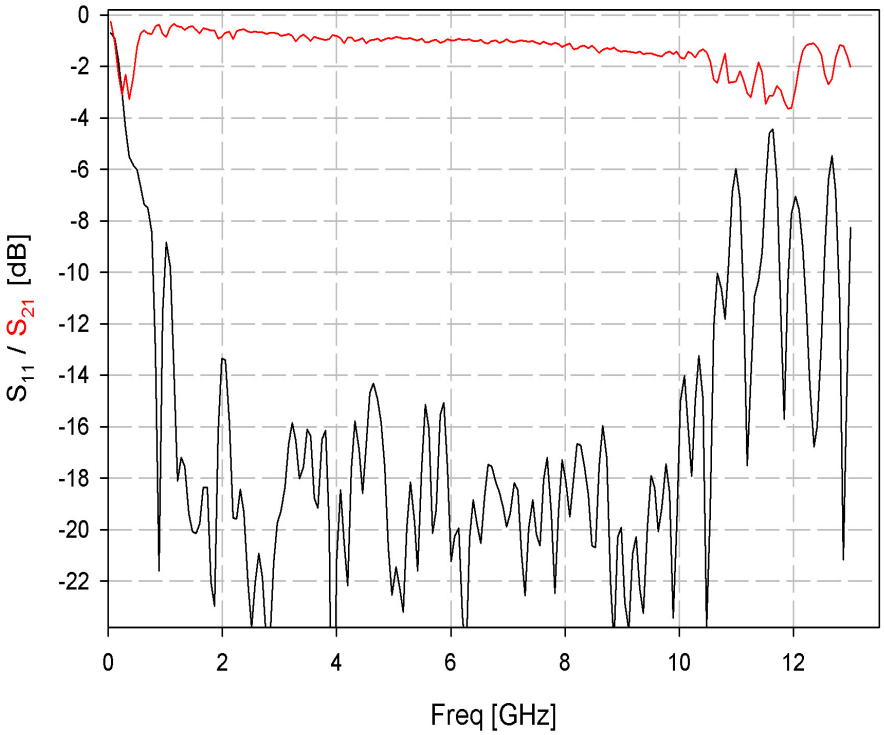


Figure 7: Measured performance of end-to-end balun. Note that S_{21} includes only one length of balun, while S_{11} is the full end-to-end setup.

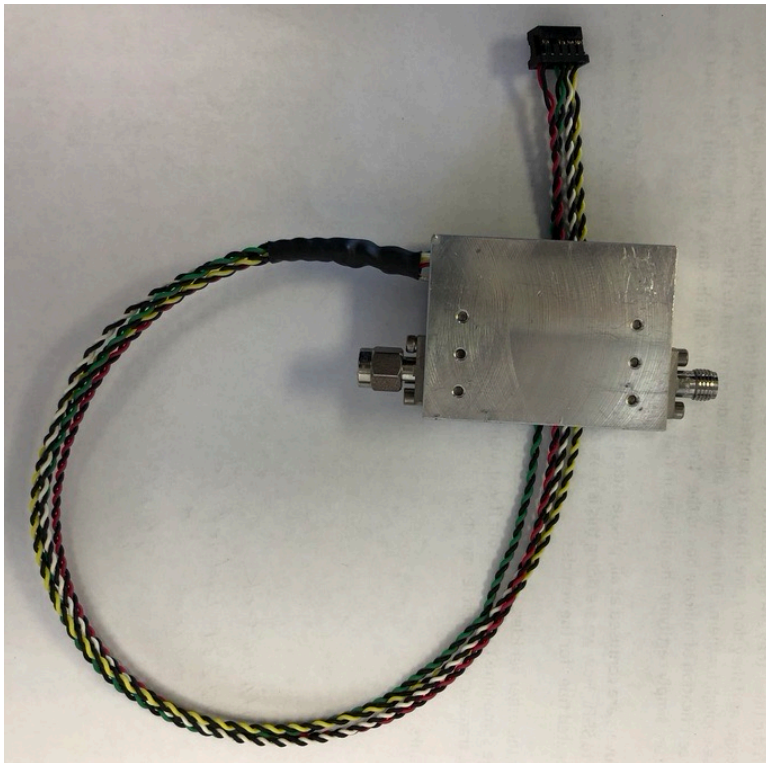
Planed Maintenance on FEEDS:

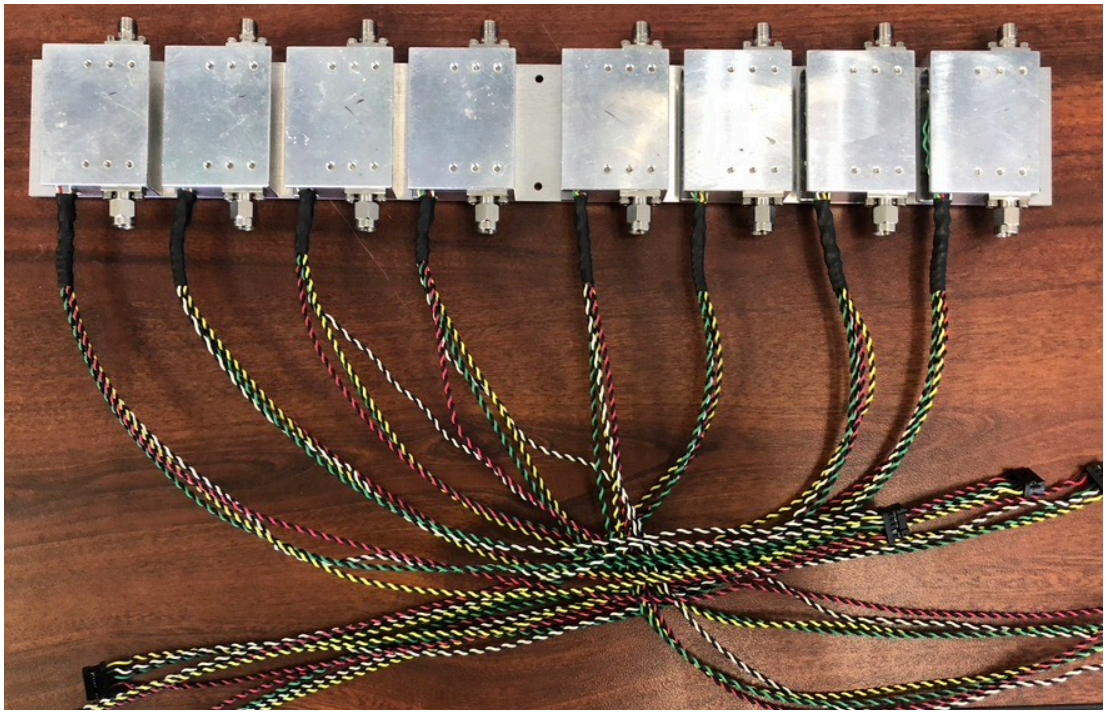
- 3C feed 020
  - Test vacuum system
- feed 016
  - Test LNAs
- Assembly of new Antonio Feeds:
  - Test vacuum (24h)
  - Install on antenna and cool down(24h)
  - Tsys measurement with absorber

Attemplifier Module:

- Parts ordered for 5 modules
- Wiring done on 80 Attemplifier

- Linear Power supply has long lead time






BF-B Rack
FX-C Rack


FX D Rack