ARES Operation Meeting

Summary of week 22 / 2023

Hannes Dinter, on behalf of the ARES crew

Summary of week 22

	Mon. 29th May	Tue.	Wed.	Thu.	Fri.
Achievements		• ACHIP 2 piezo stage tests • AutoACC • ICT installed • Stability data analysis	• MDI charge monitors • Doocs server and machine state GUI development • X-band Modulator 1 repaired (power supply replaced) • EA.R1 field of view shifted (to be tested with beam) • STRIDENAS tests	• MPS X-band cabling • Doocs servers development • Preparations for STRIDENAS week	• TÜV rehearsal • Doocs server development • Displays for additional BKR console installed
Difficulties		• PHAROS RA stopped working (X2timer issue, fixed, but came back with 100% transmission) • Beam not in field of view of EA.R1 (fixed on Wed., to be tested) • Oscilloscope PC network issues (fixed)			
Notes	• Public holiday				

AutoACC shift

- Tested RL agents with new EA geometry and on BC screen:
  - New EA geometry does not seem to degrade performance
  - EA RL agent (polished donkey) does not work on BC screen (also bug suspected with magnet reordering)
- For time reasons we were neither to test the agent on the in-air screen nor the lattice agnostic agents. Given the results on the BC screen, the former is expected to fail.

Stability data analysis (vertical)

BPM DL.G2 was measured in overnight stability run on 2023.03.09

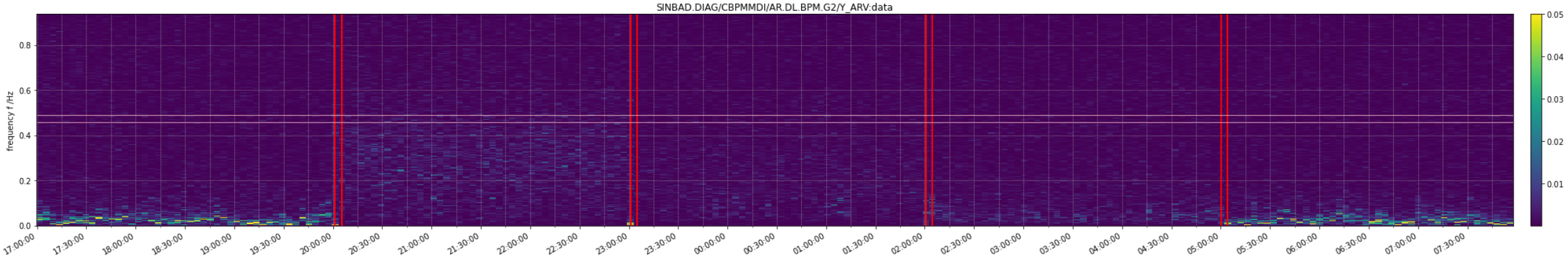
No feedback (zero gains) vertical and horizontal

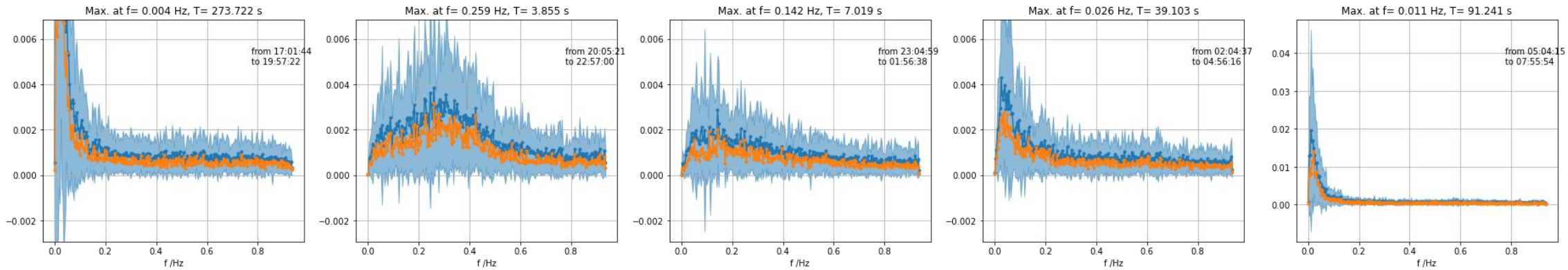
Willi's gains vertical and horizontal

Vertical gains from 9 February and horizontal gains from 2 March

Vertical gains from 23 February and horizontal gains from 9 March

Both feedbacks off (repeat)





Stability data analysis (horizontal)

BPM DL.G2 was measured in overnight stability run on 2023.03.09

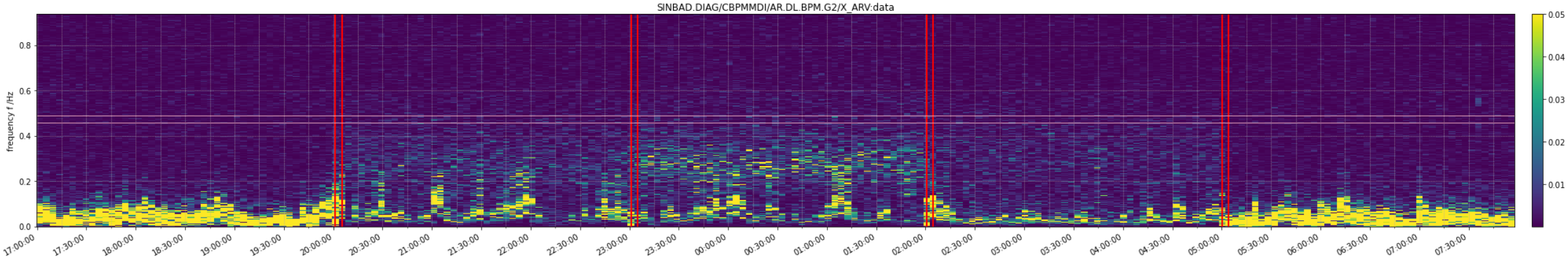
No feedback (zero gains) vertical and horizontal

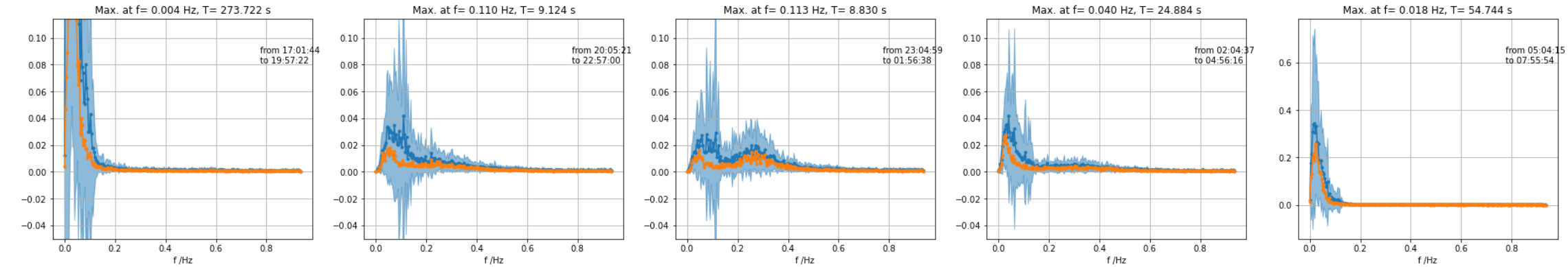
Willi's gains vertical and horizontal

Vertical gains from 9 February and horizontal gains from 2 March

Vertical gains from 23 February and horizontal gains from 9 March

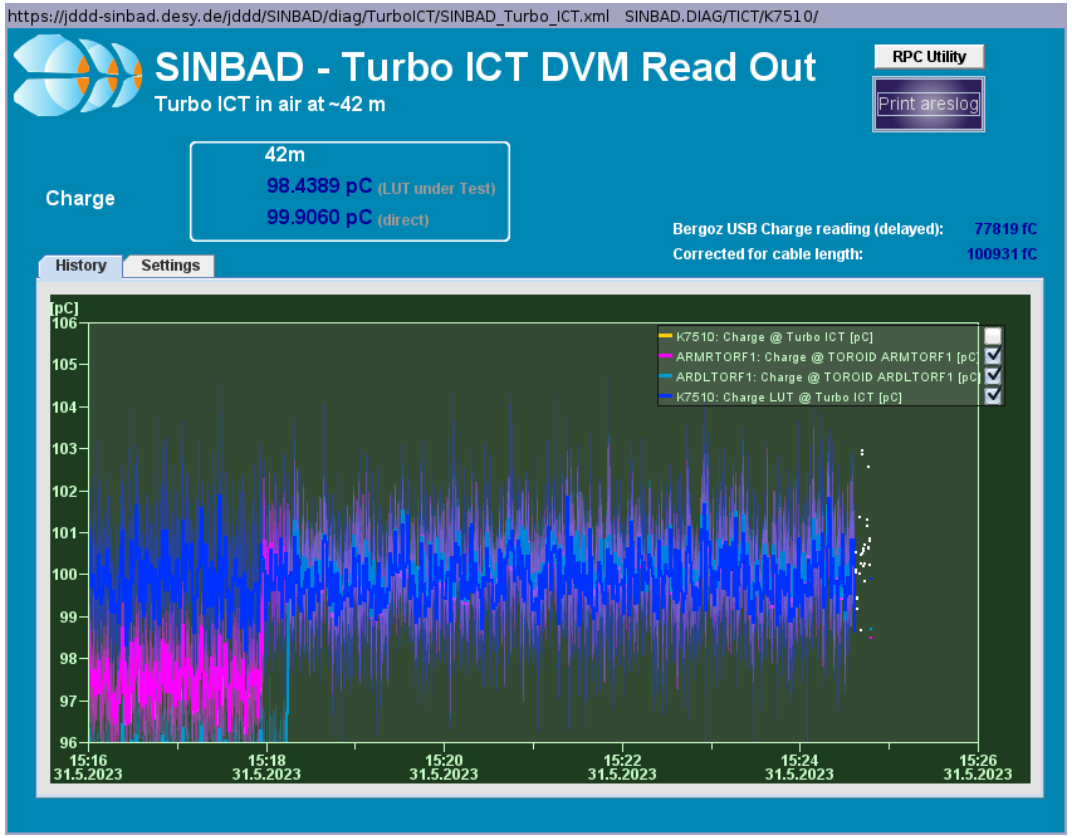
Both feedbacks off (repeat)





MDI charge monitors

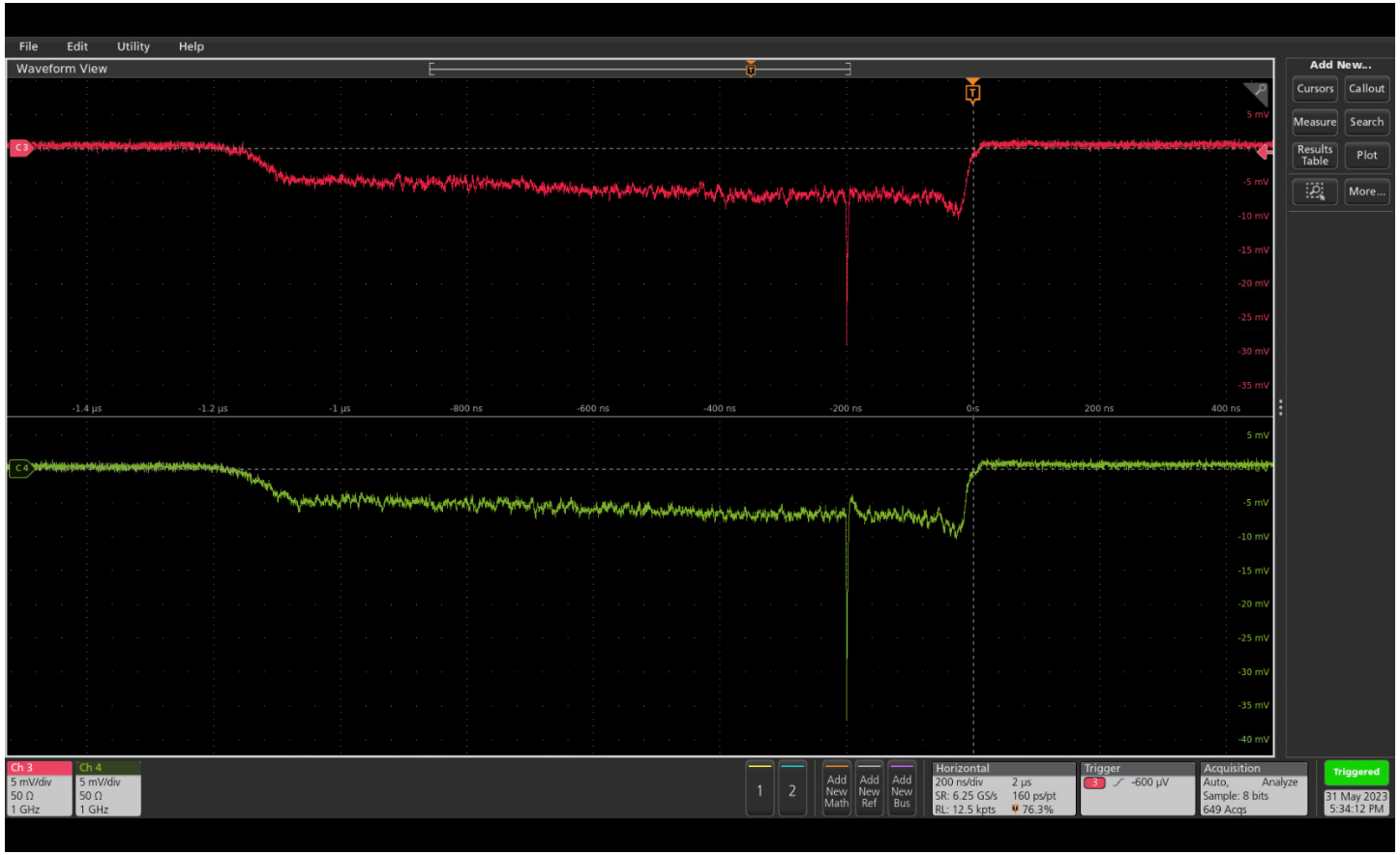
- Recorded all charge monitors between 0.2pC and 200pC (machine state file saved)
- Changed Toroid scales to Turbo-ICT (look-up table)



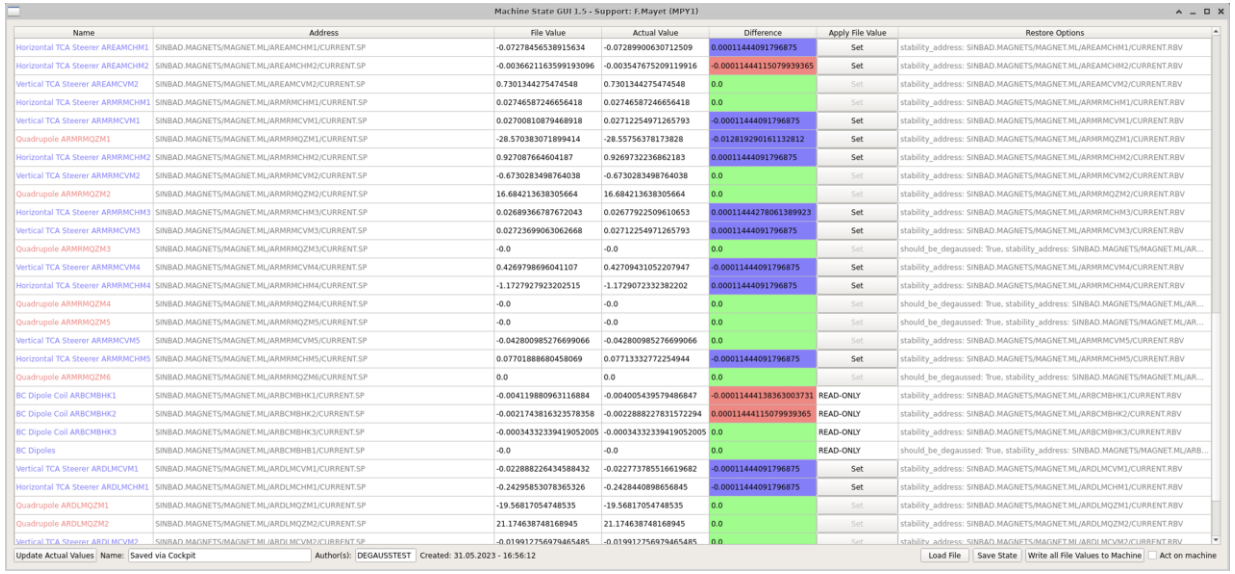
STRIDENAS tests

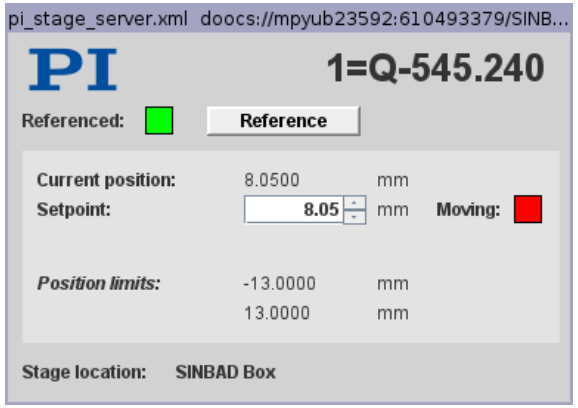
Preparations for STRIDENAS week

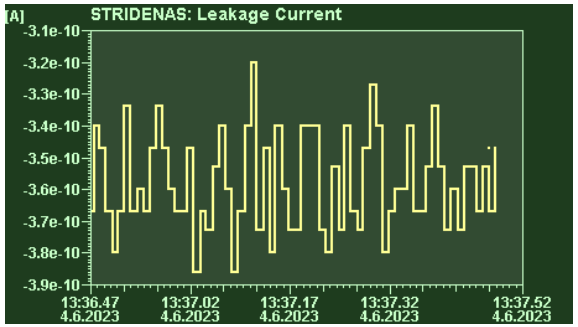
- Cabling
- HV
- Oscilloscope read-out
  - Network
  - Doocs server
- Leakage current via doocs
- Measurement script preparation

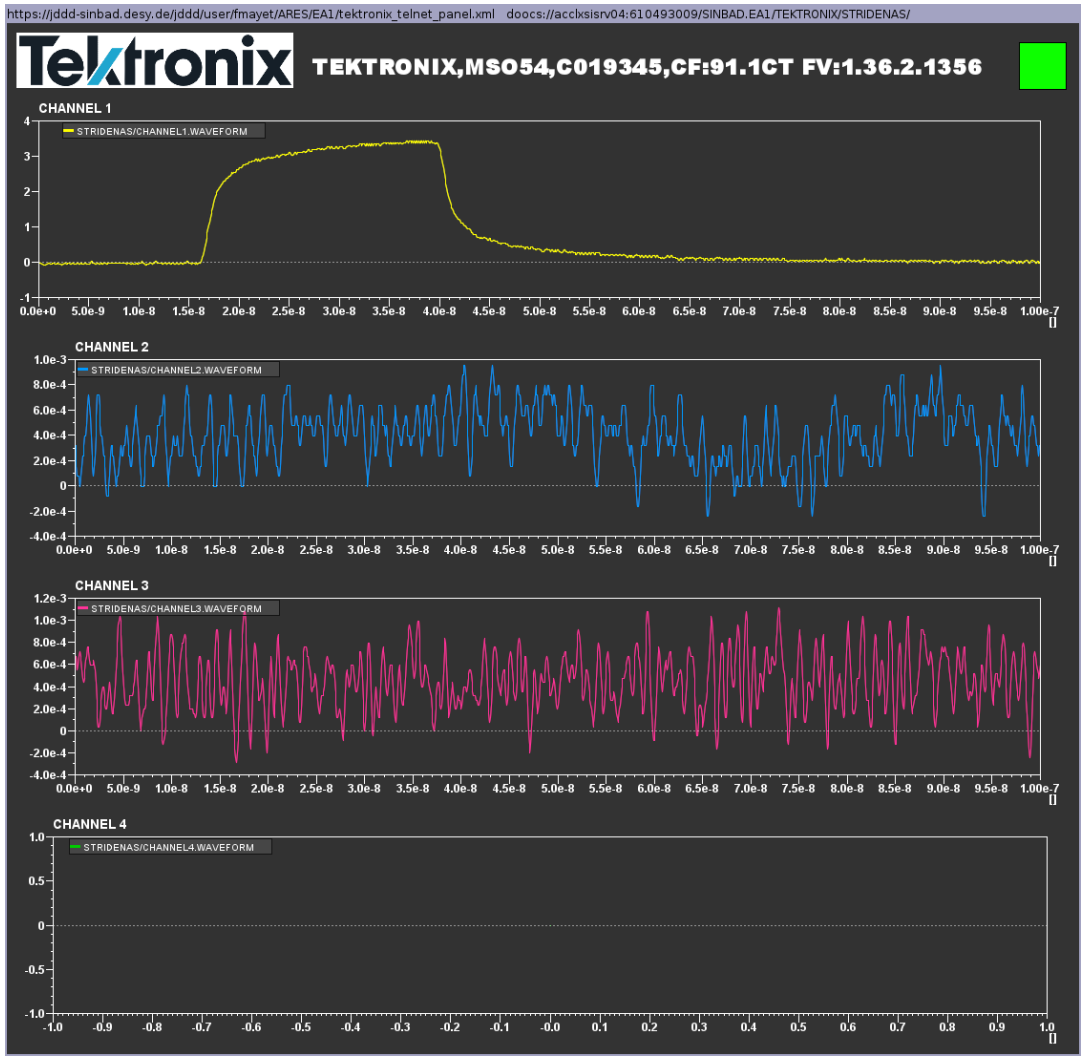


Doocs servers and tools development



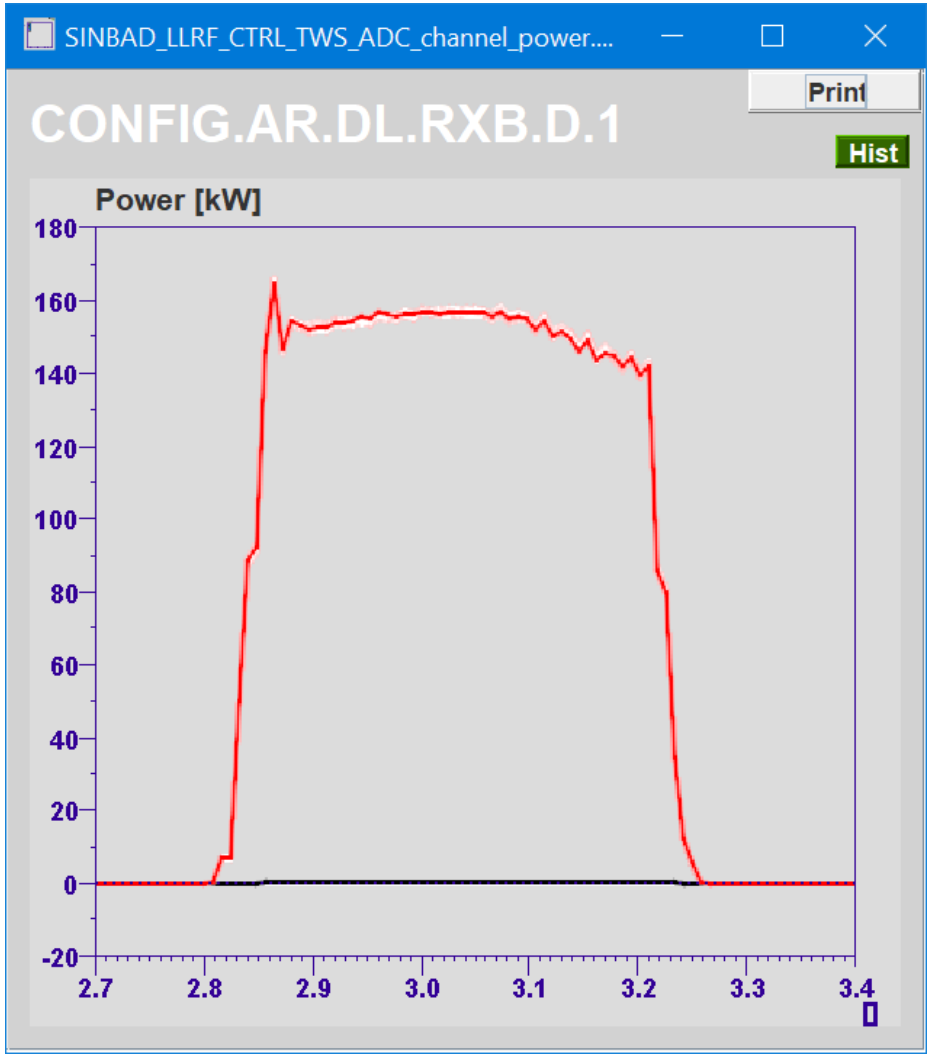






POLARIX Modulator1 online again (required for TÜV)

Three phase power relay replaced, problem solved.



Plan for this week

- MON:
  - TÜV including X-band
  - STRIDENAS preparations
- TUE: STRIDENAS
- WED: STRIDENAS
- THU: STRIDENAS
- FRI: STRIDENAS

Schedule

Week 23

Date	Shift Leader
5.06.	-
6.06.	Sonja, Willi
7.06.	Willi, Sonja
8.06.	Frank, Sonja
9.06.	Thomas, Sonja

If you want to learn or join the shift: please give the shift leader a call (BKR 2840 / SINBAD Box 2454)