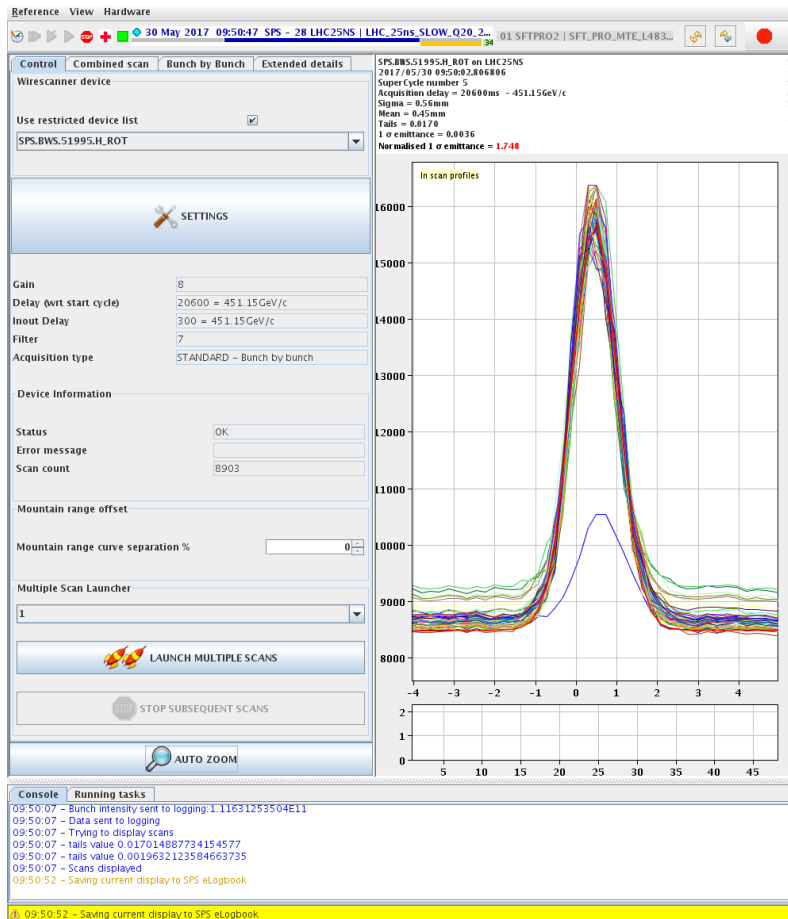


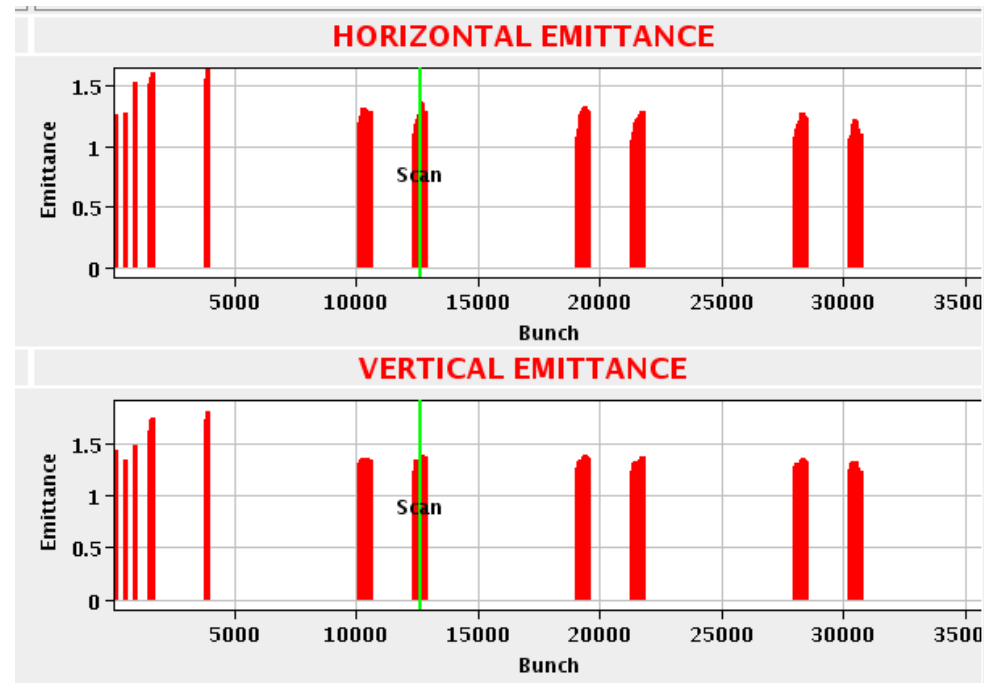
SPS – LHC 25 ns

- BCMS 48 bunches: initially $1.3e+11$ (reduced afterwards)



Emittances $\sim 1.8 \mu\text{m}$ measured in the SPS

From the LHC BSRT with the same beam: ??



SPS – LHC 25 ns

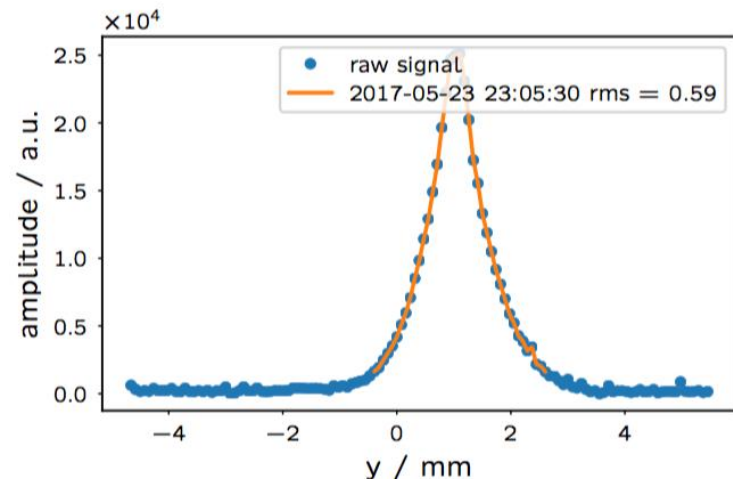
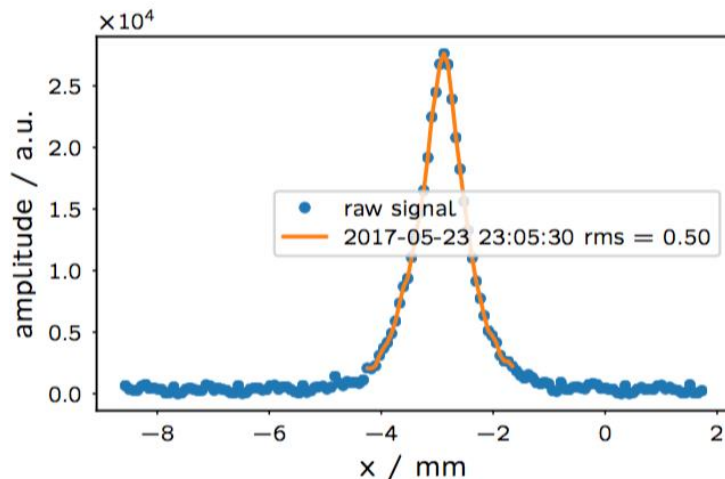
For 288 bunches for scrubbing run:

- More work to be done on 800 MHz (phase adjustment) and 200 MHz feed forward.
- RF experts are working on it.
 - 72 bunches have been injected into the LHC
- Running out of time....

HiRadMat

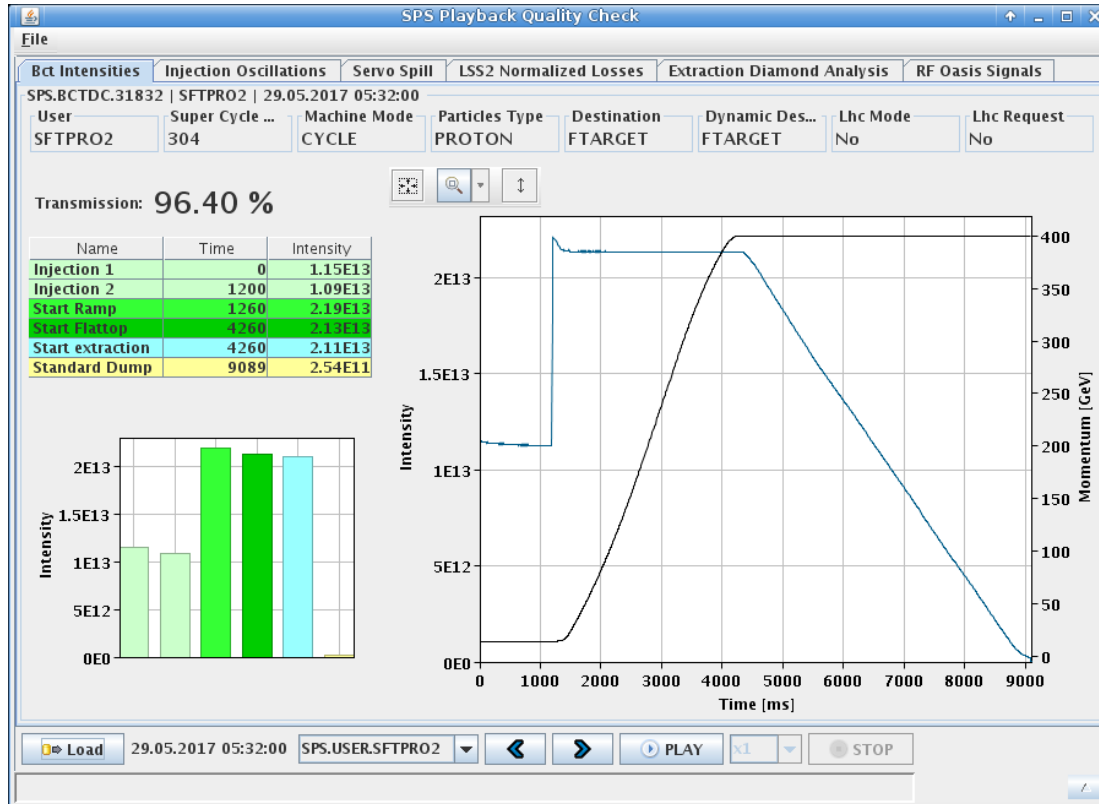
- The issue with the spot size. Studies ongoing.
 - Two doubts: reproducibility and actual spot size
- Reproducibility fine:
 - The fits of the BTV are not good enough: not Gaussian profile. Hence varying measurements. Offline fits: no variations
- But beams too large:
 - 0.25 mm spot sizes requested/expected. Measure ~ 0.5 mm

Signal of BTV.660524



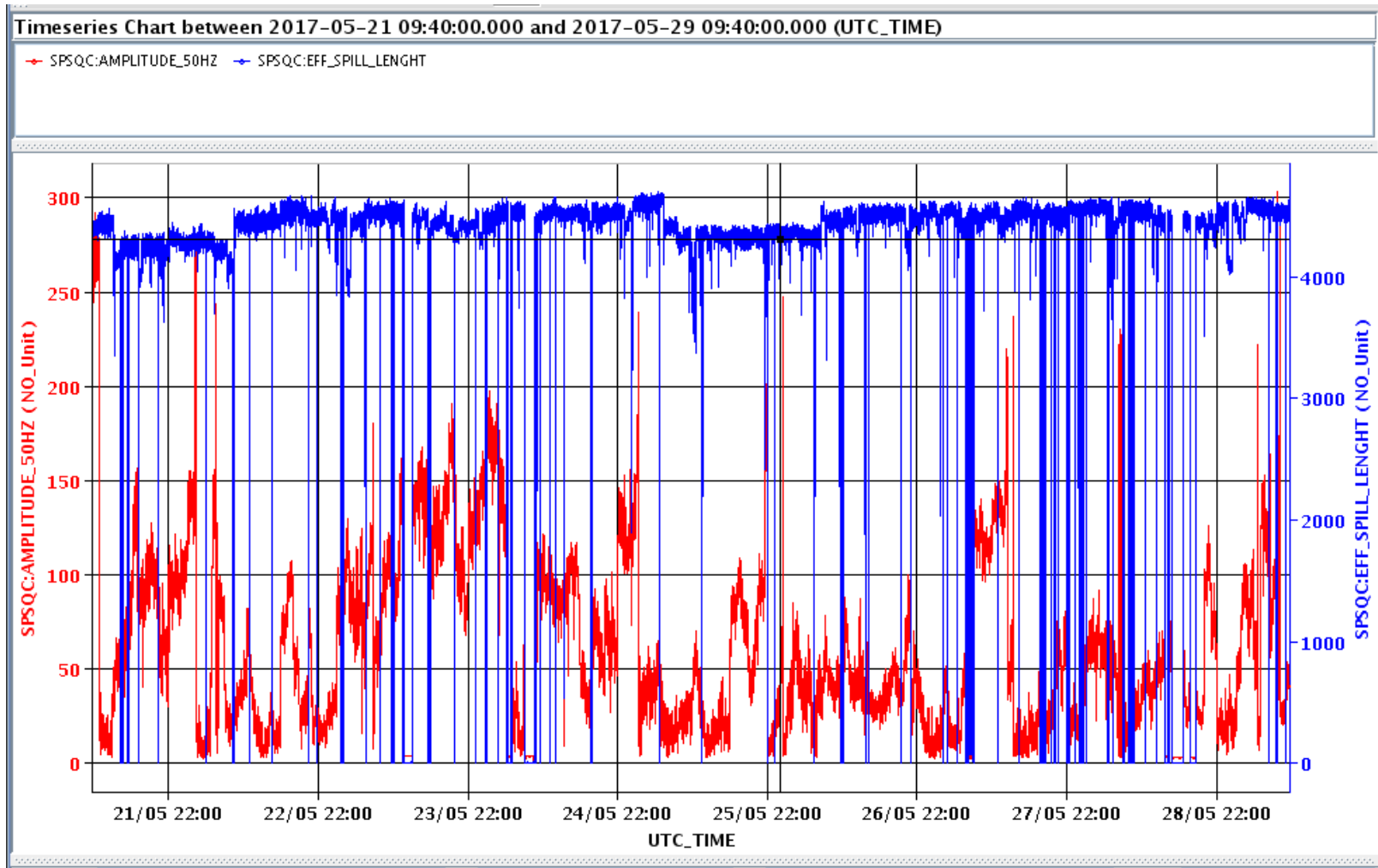
Fixed Target Beam

- Intensity and transmission before TS

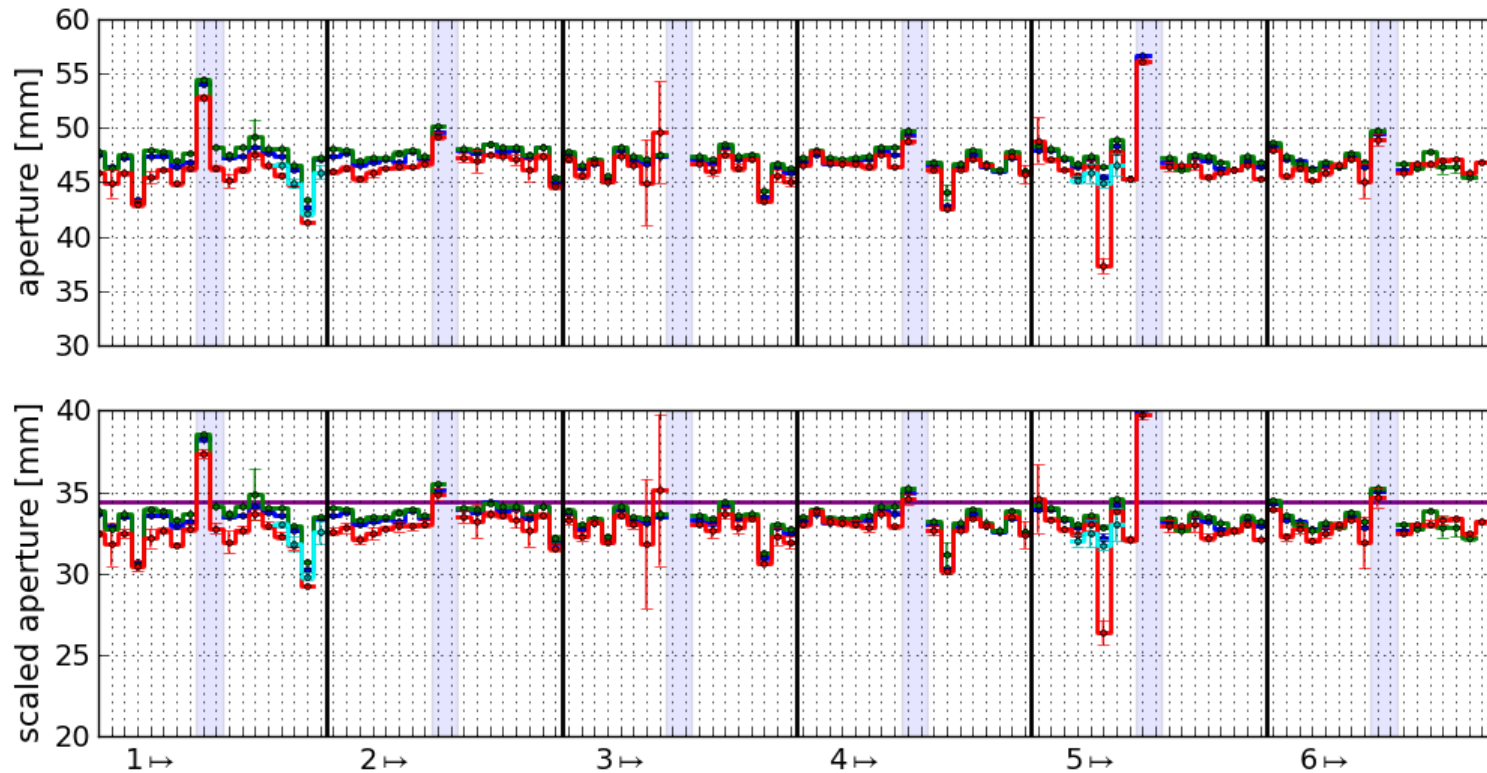


- Can we go to higher in intensity?
 - ZS not optimum aligned yet. This morning...
 - Aperture restrictions 511 and 133

Spill Quality – 50 Hz drifting, no bursts



Results of aperture scan



Aperture bottleneck 511 removed. 133 still there.

Cyan: new measurement

Red: first measurement in 2017

Miscellaneous

- AWAKE: up $2.8e+11$ extracted
- UA9: also coast in Q20 available
 - $> 1e+11$ of intensity: needed to switch on 800 MHz