SPS W38/39

Availability

77.4%

Blocking Faults

69

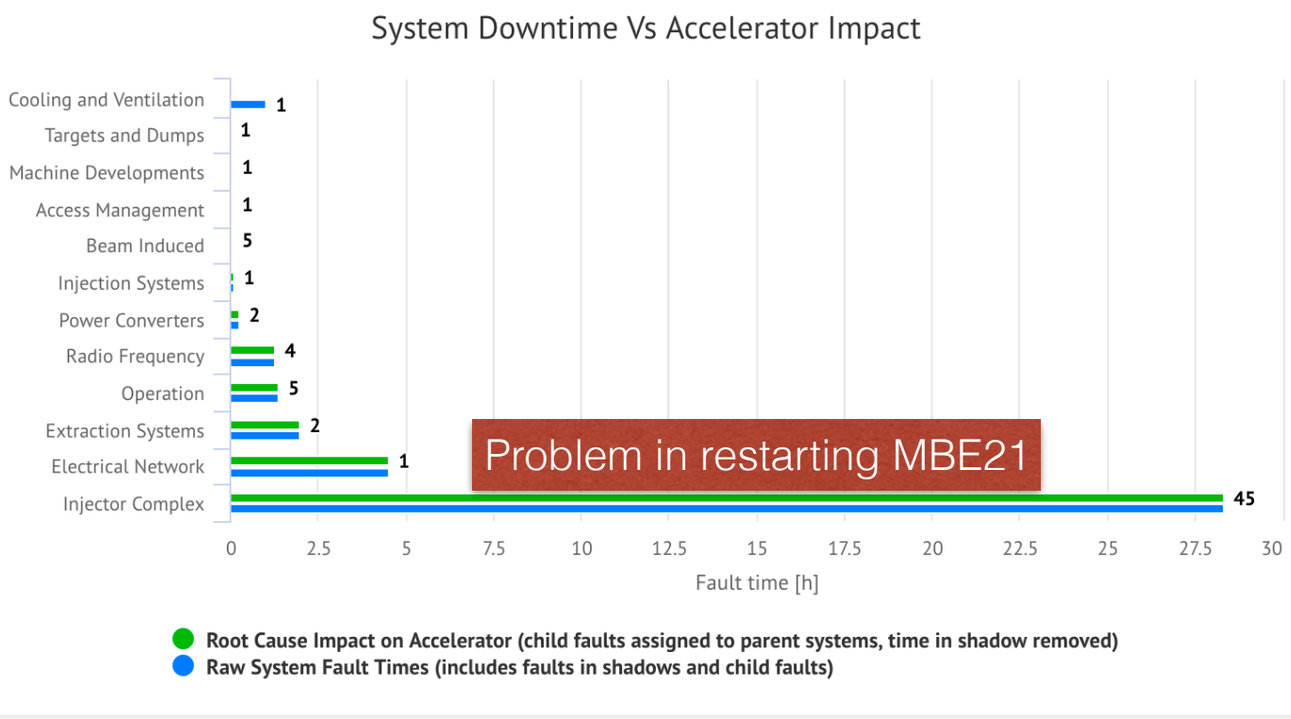
Total Faults

69

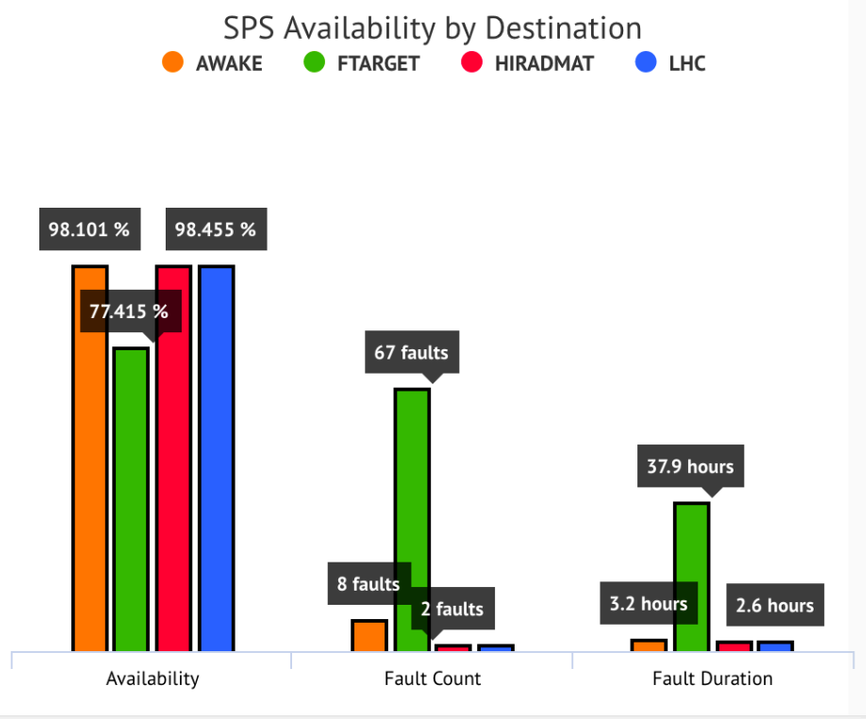
Fault Duration (overlap excluded)

38.0h

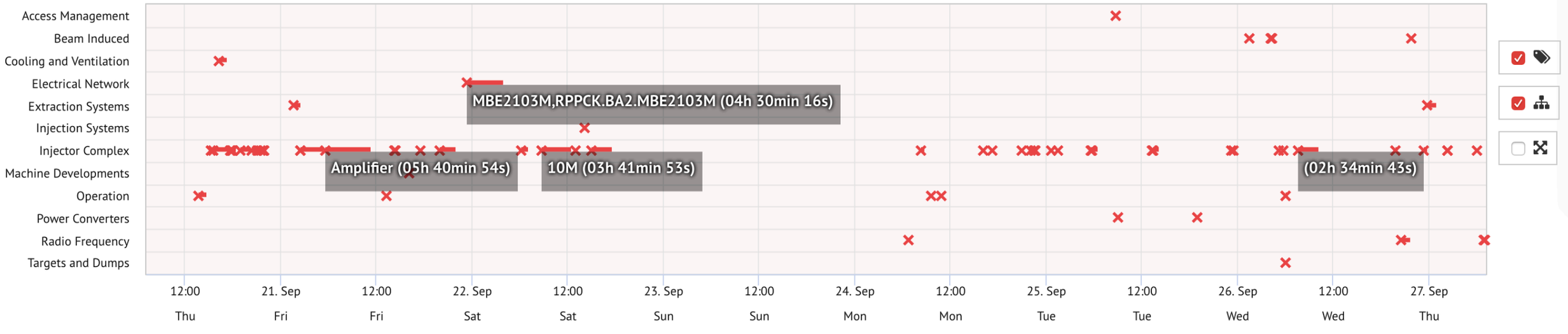
Blocking Faults by Root Cause



Destination Availability



Faults Timeline

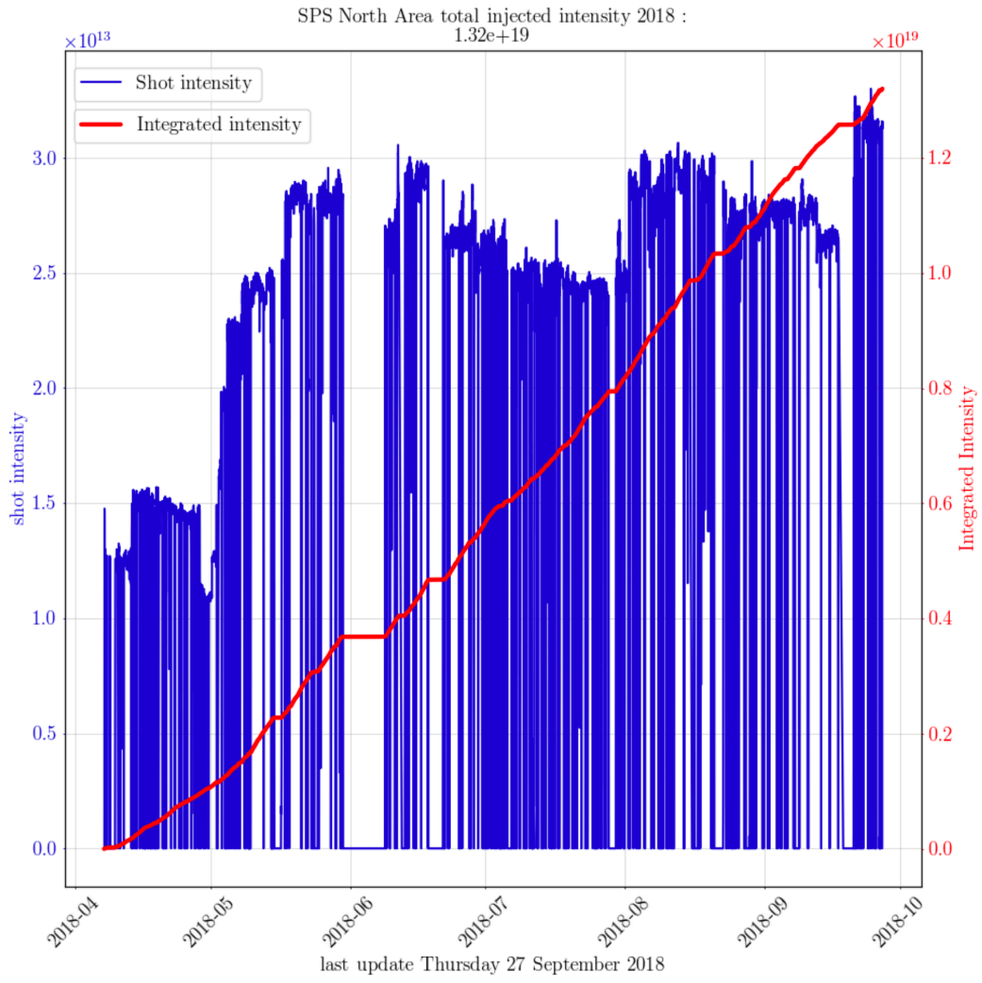


Main highlights

- **Now running with the highest intensity per pule for SFTPRO in this year => 3.3x10^{13} ppp**

- **Switched from old slow extraction methodology to Constant Optics Slow Extraction (COSE)**
  - From tune sweep to momentum sweep => this has the potential to reduce losses, but not proved yet with measurements

- **Dedicated MD(s) devoted to slow extraction and FT studies:**
  - 1/3 order resonance slow extraction assisted with octuples
    - Aim: loss reduction. Principle of working demonstrated
  - Beam Dump Facility (BDF) target test
    - Aim: test target design. Setting up of the cycle and line steering started but not completed yet - very tedious to steer TT20…as usual…and even more in these conditions
  - ZS shadowing using bent crystals
    - Aim: loss reduction. This has the potential to improve what has been shown already with a passive diffuser. First scans started and hit of channelling already observed - very promising in view of the upcoming MD slots
  - Spill noise correction using machine quadrupoles
    - Aim: spill quality optimisation. Used specially prepared



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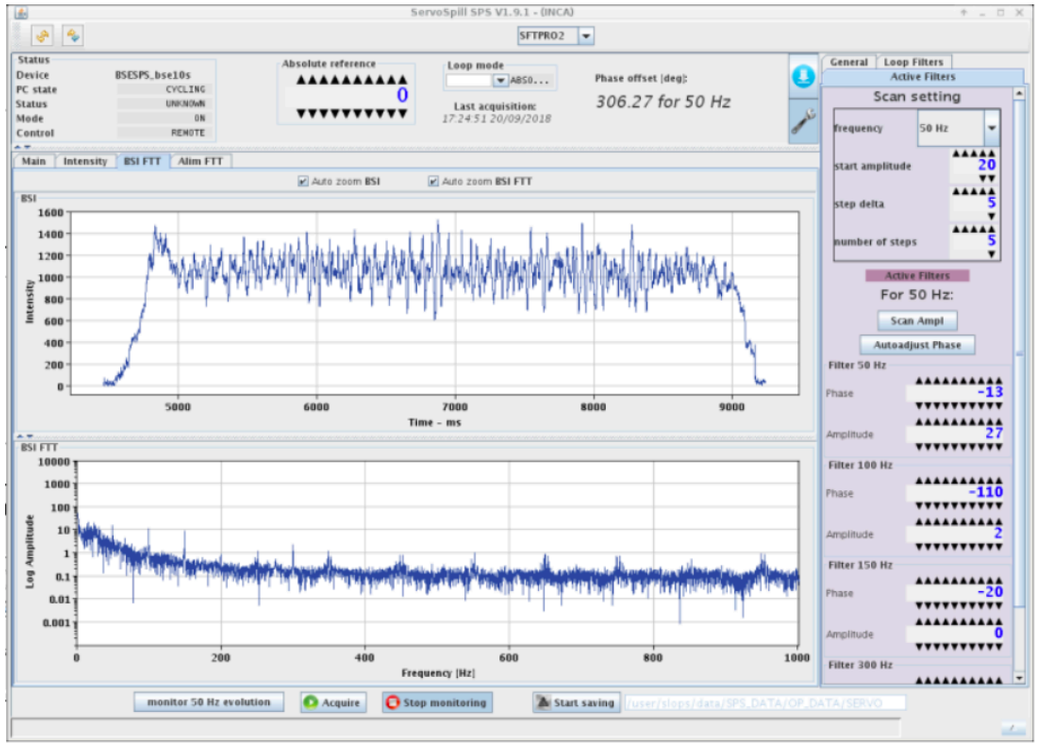

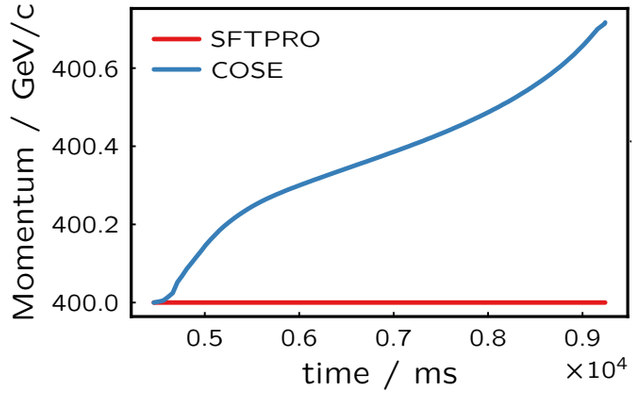

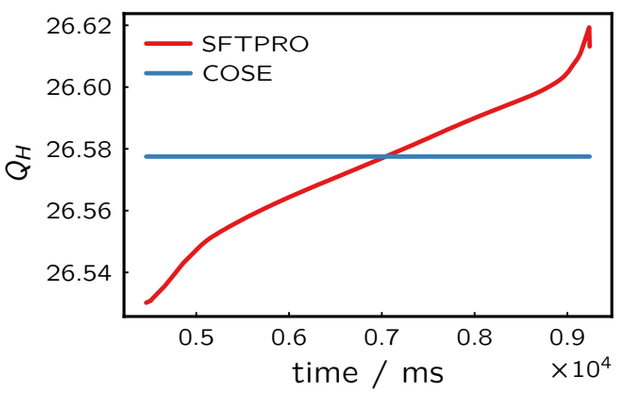

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