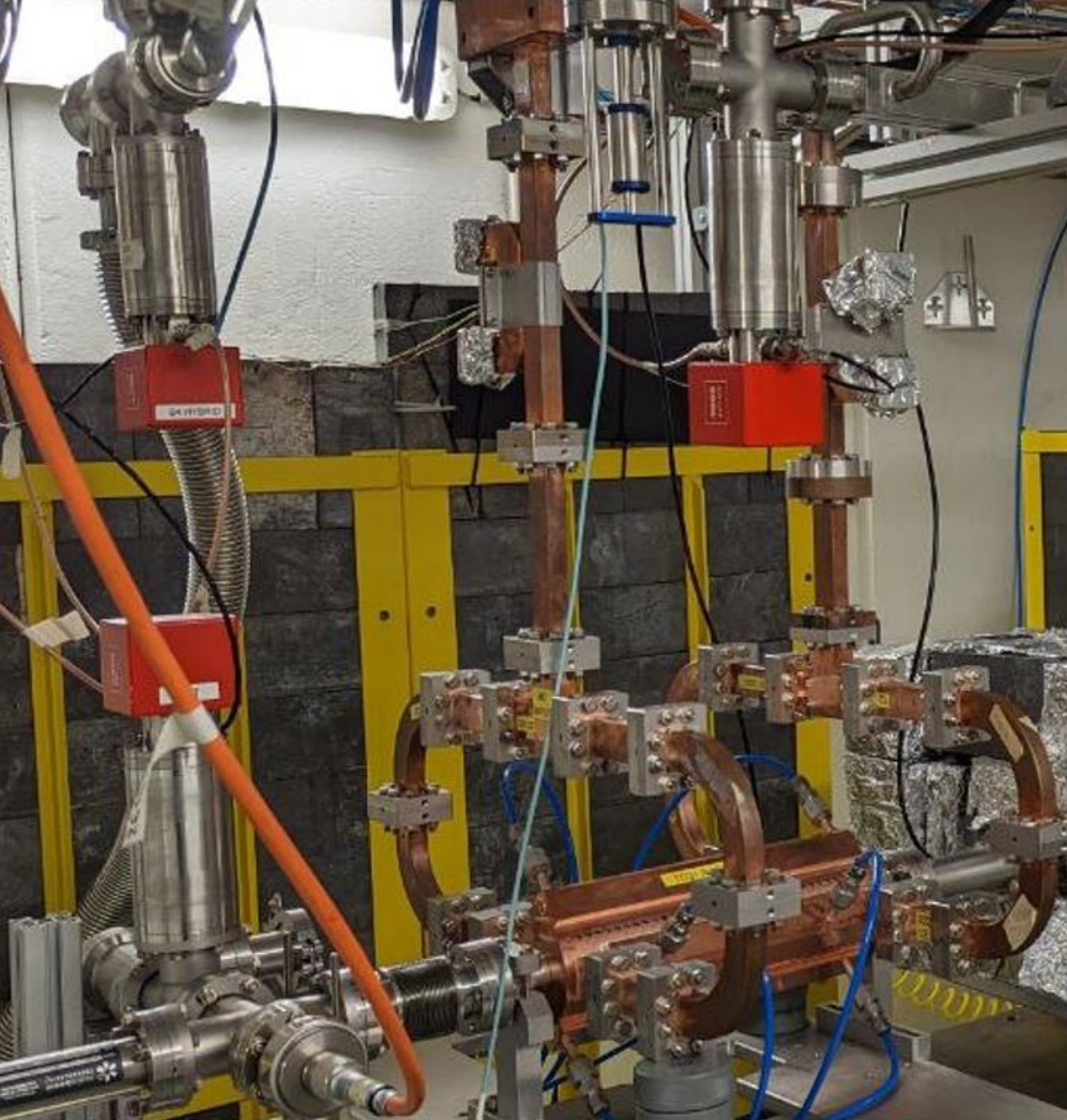




# **X-Box Summary**

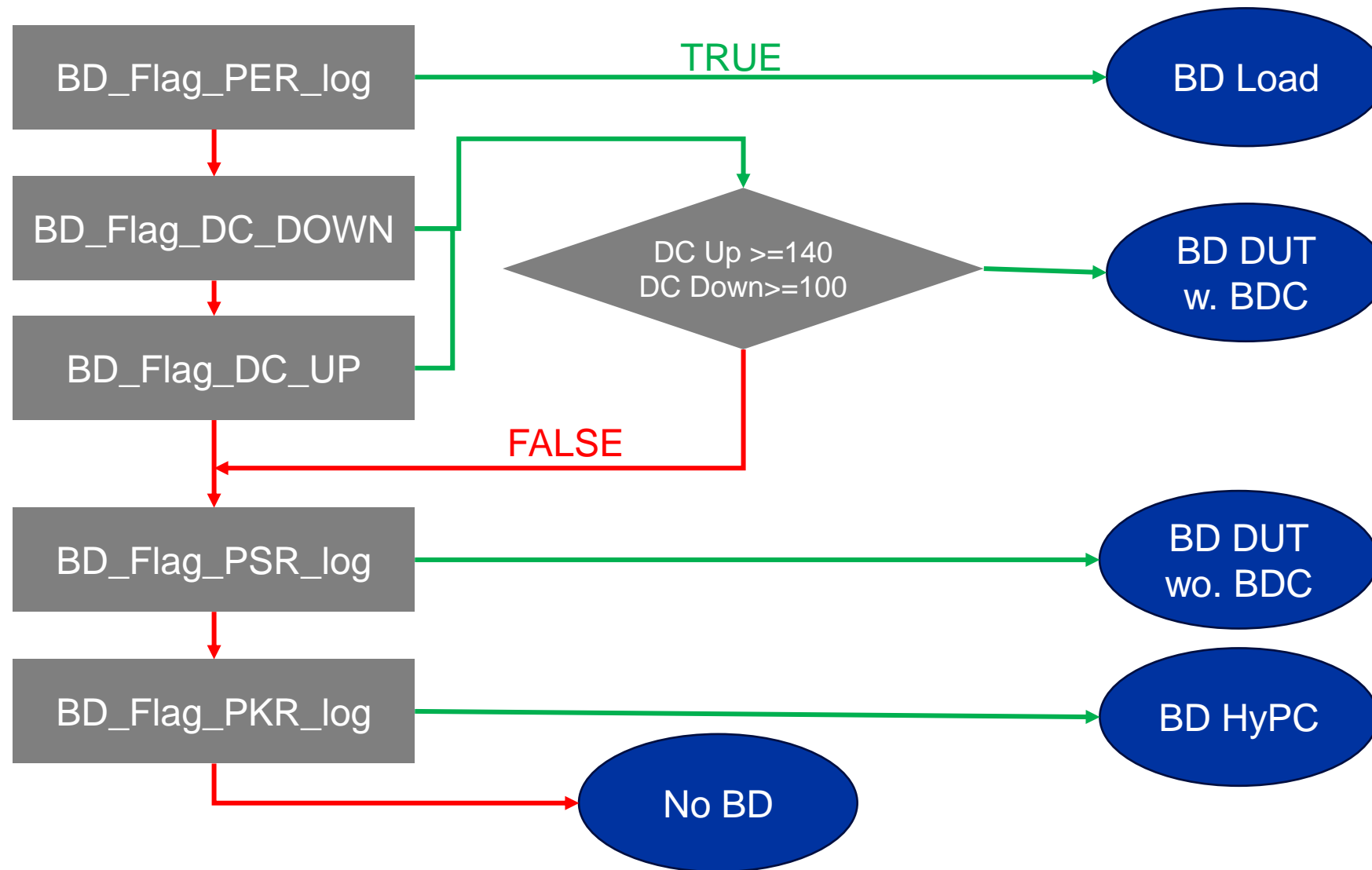
**19.06.2024**



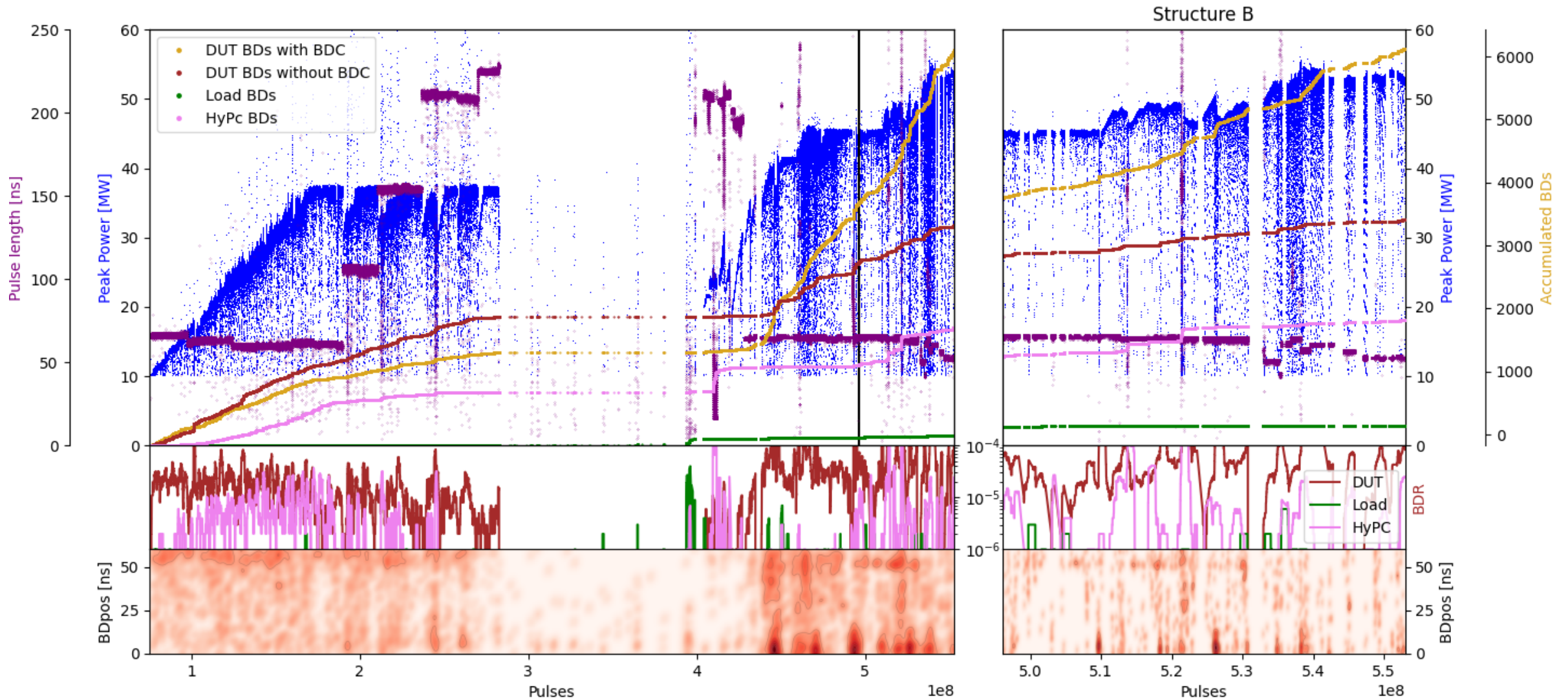
# X-Box 2 TD31 N3 N4: Structure B

- **Restarted 26.01.2024**
- 100:1 ratio, all power to Structure B
- Pulse width 50ns
- **Interlock in modulator regarding SU**
  - Fixed on Wednesday the 22nd
- **Planned visit from Scandinova to investigate SU problems**
- **Running flat**
  - Setpoint DUT 54MW

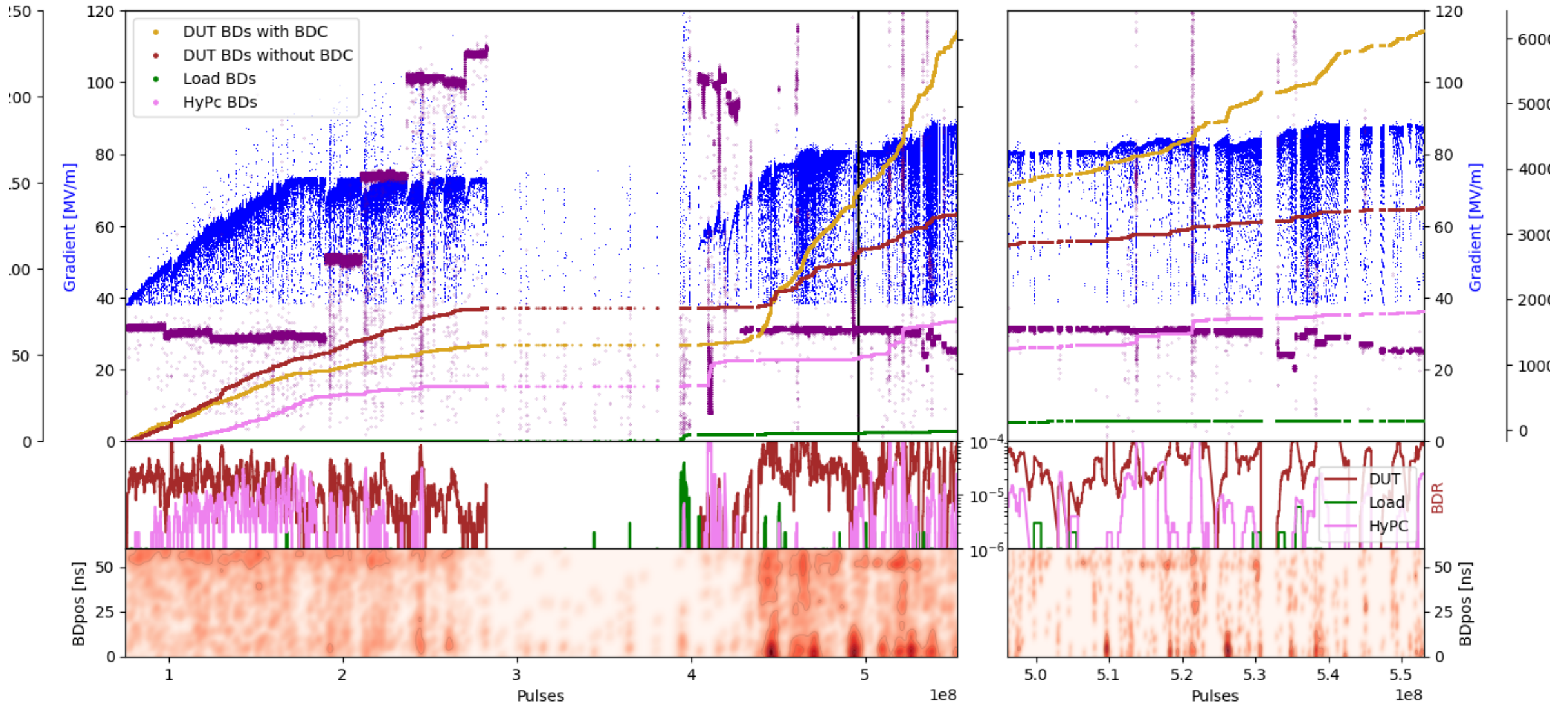
# X-Box 2: Reminder on BD classification



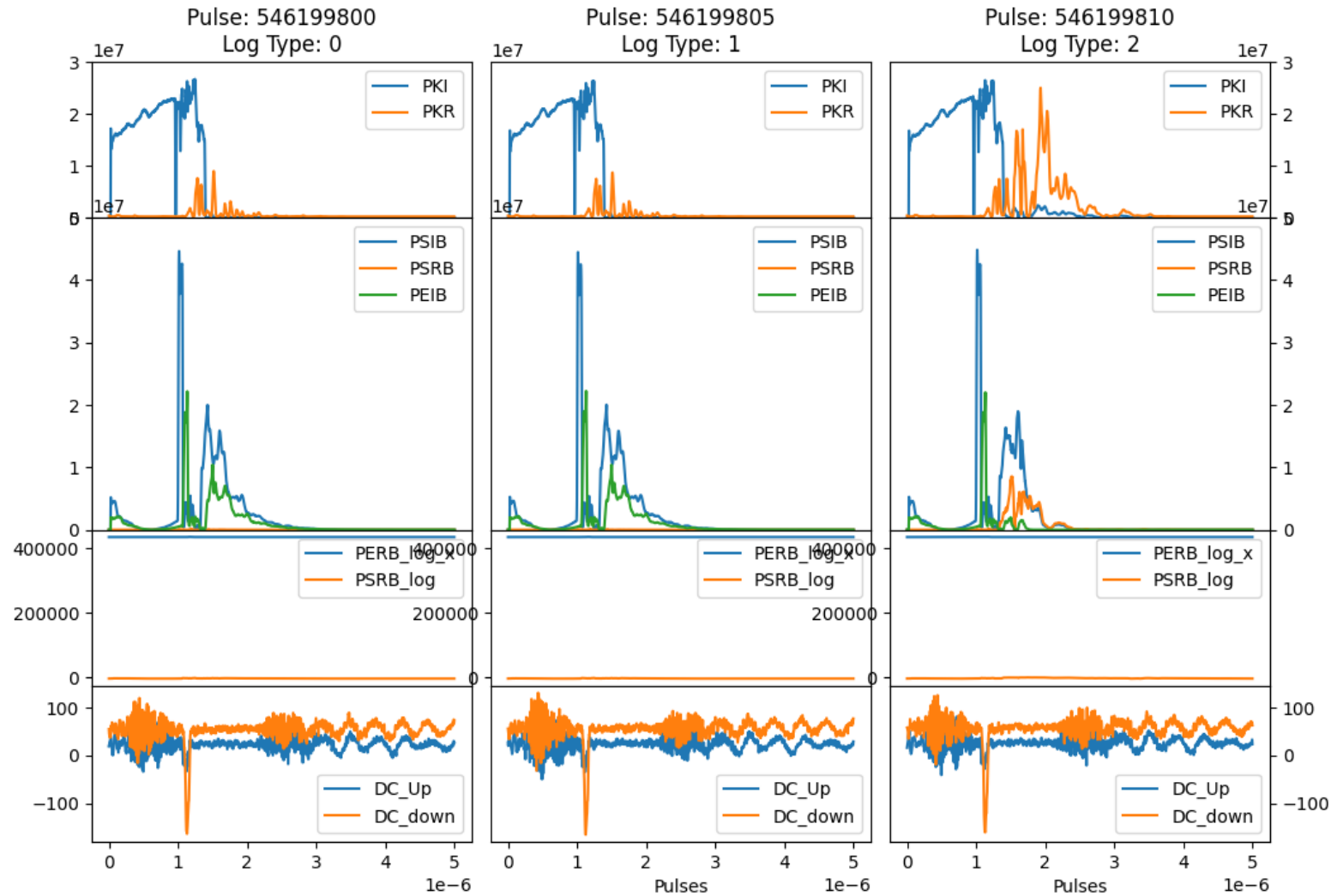
# X-Box 2: TD31 N3 N4 Structure B – Peak Power



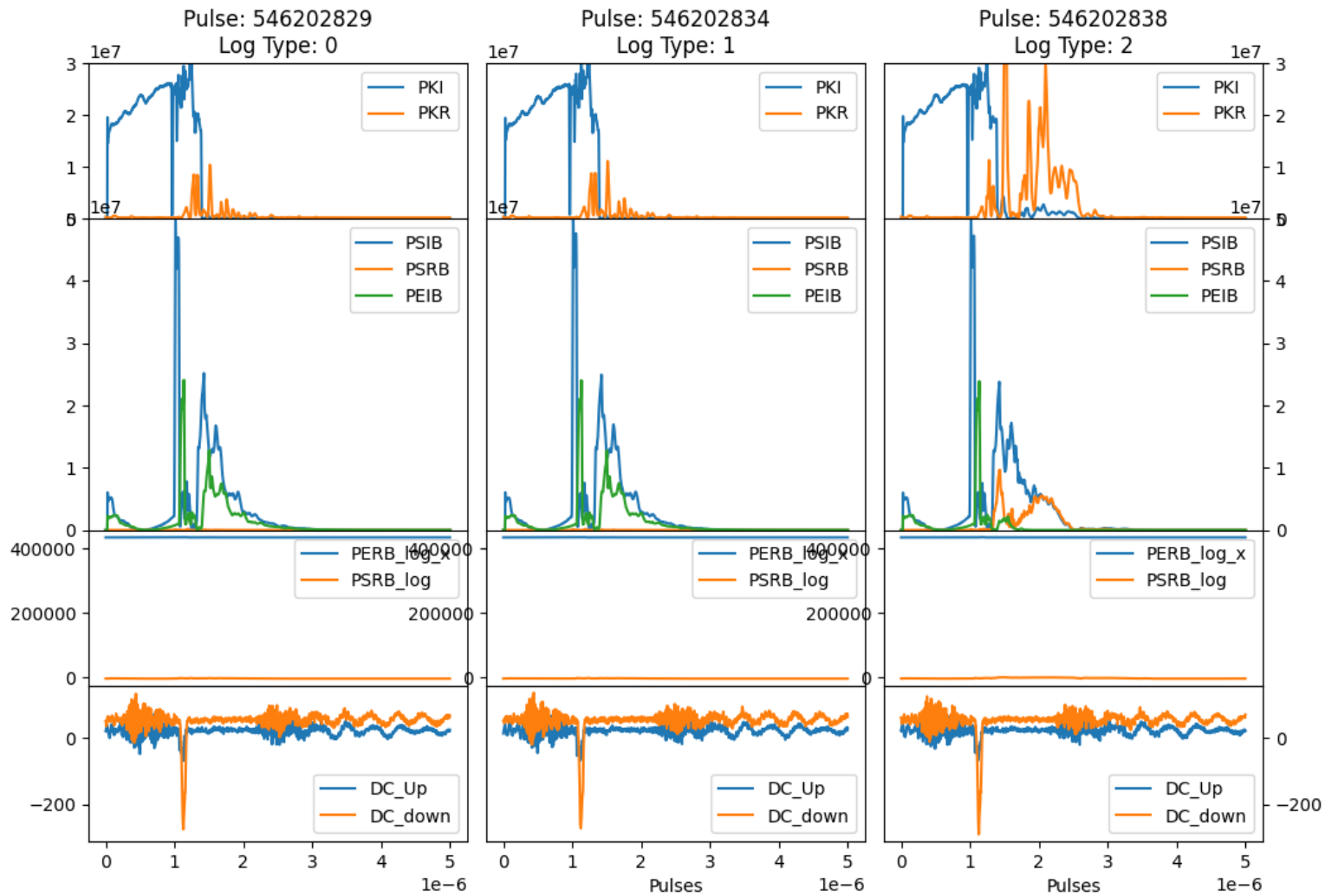
# X-Box 2: TD31 N3 N4 Structure B – Gradient



# X-Box 2: 06 June 2024 Pulse 546199810

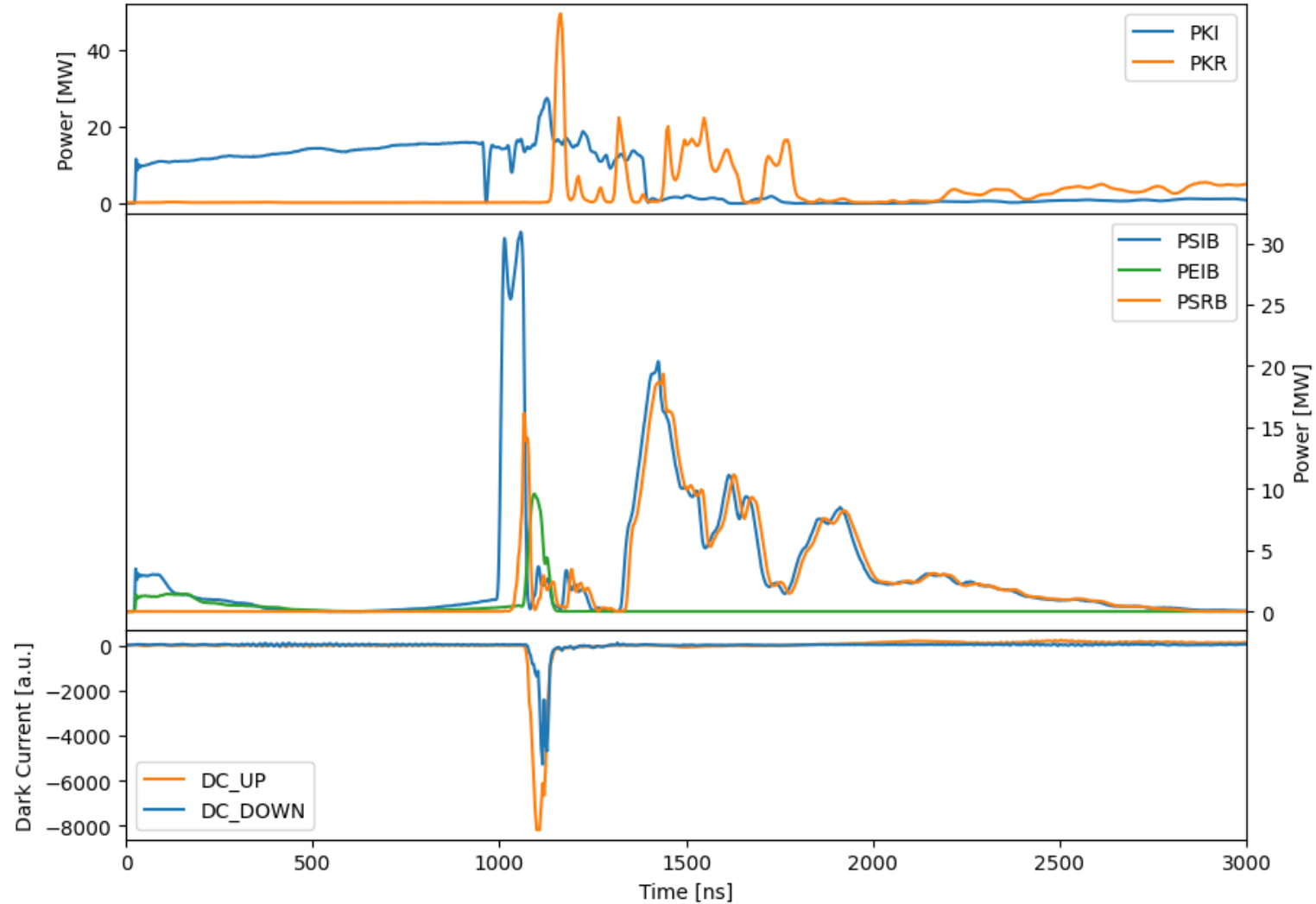


# X-Box 2: 06 June 2024 Pulse 546202838



# X-Box 2: BD pulse 545436388

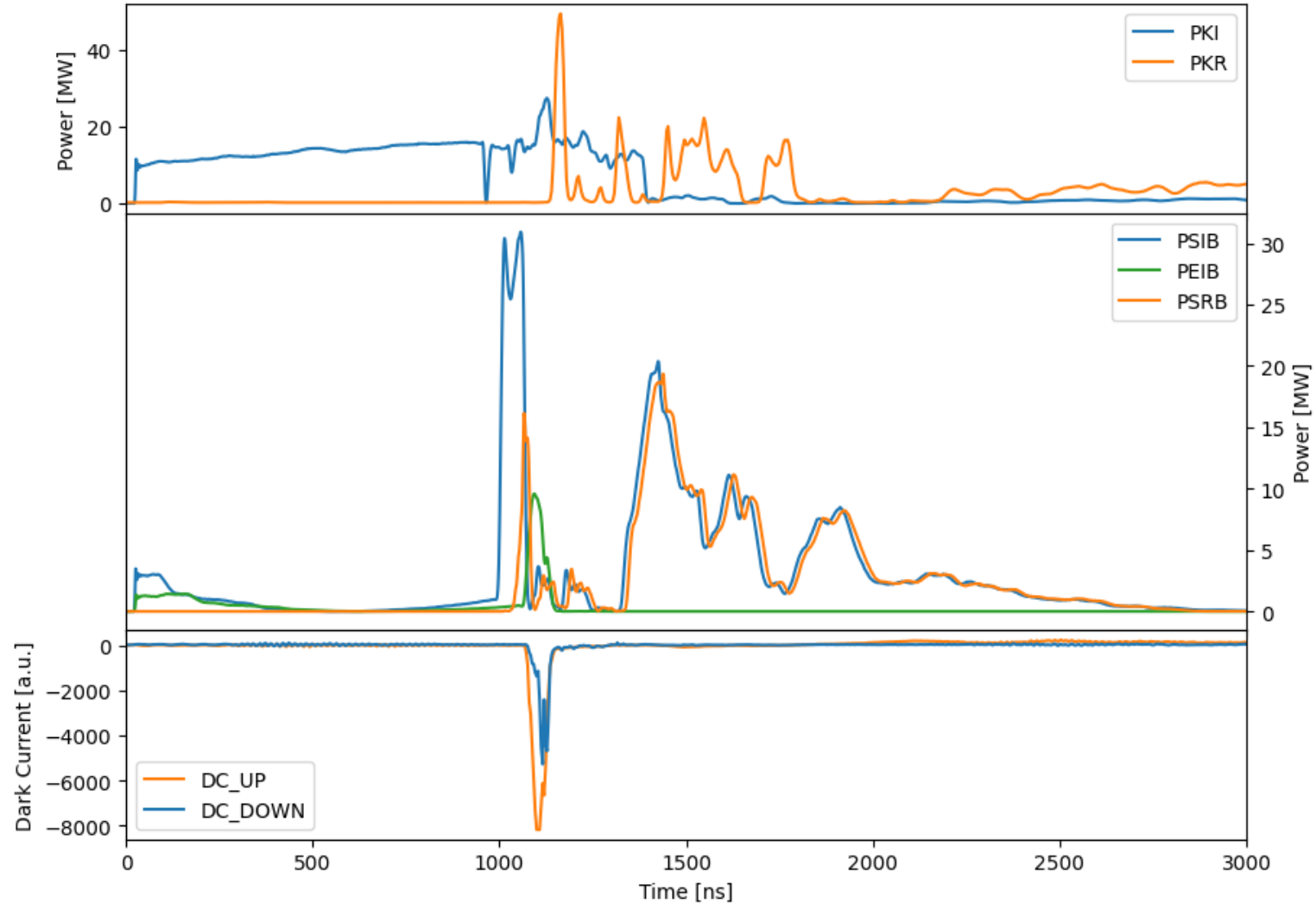
Pulse 545436388  
Log Type: 2





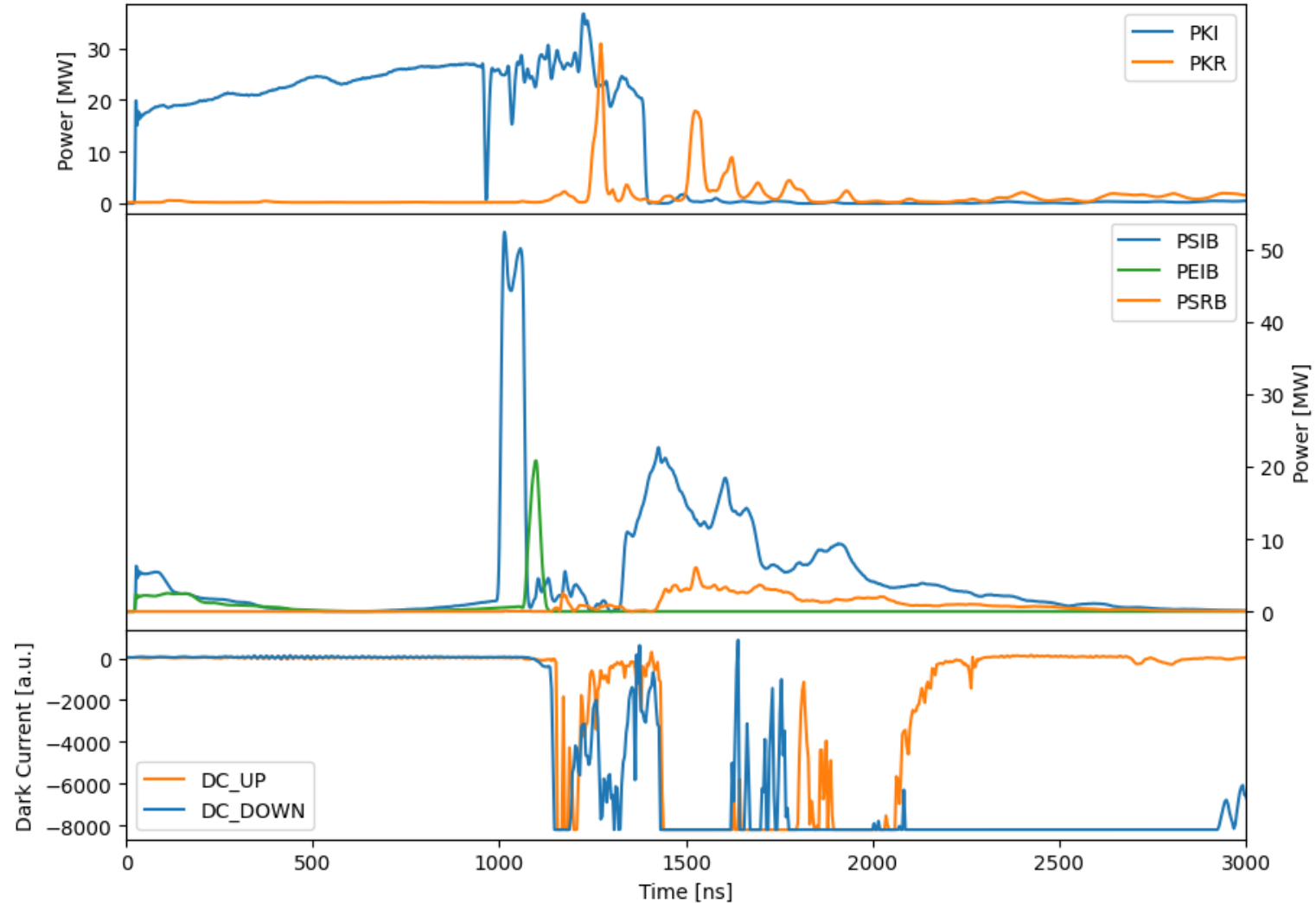
# X-Box 2: BD pulse 545436388

Pulse 545436388  
Log Type: 2



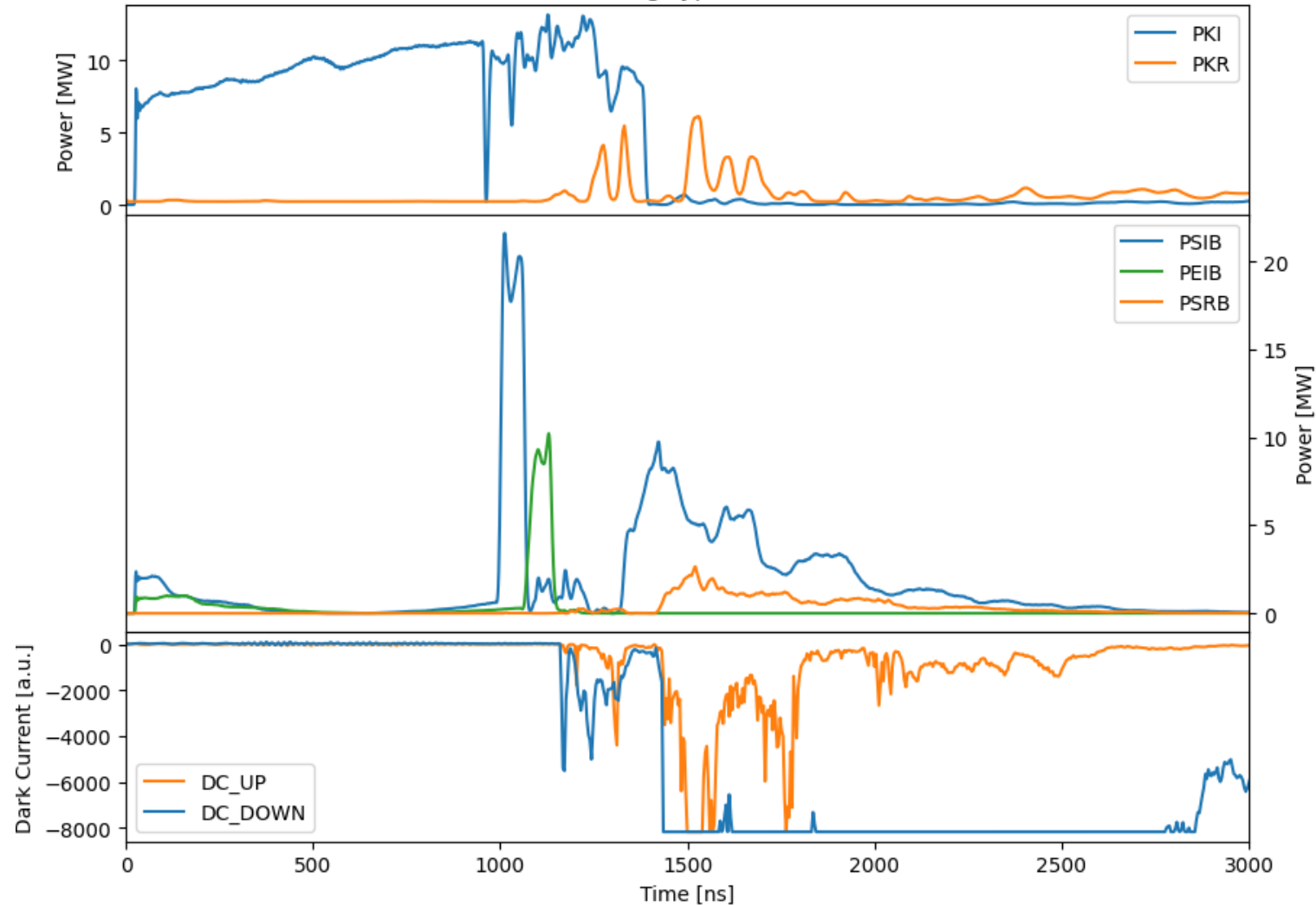
# X-Box 2: BD pulse 545506213

Pulse 545506213  
Log Type: 2

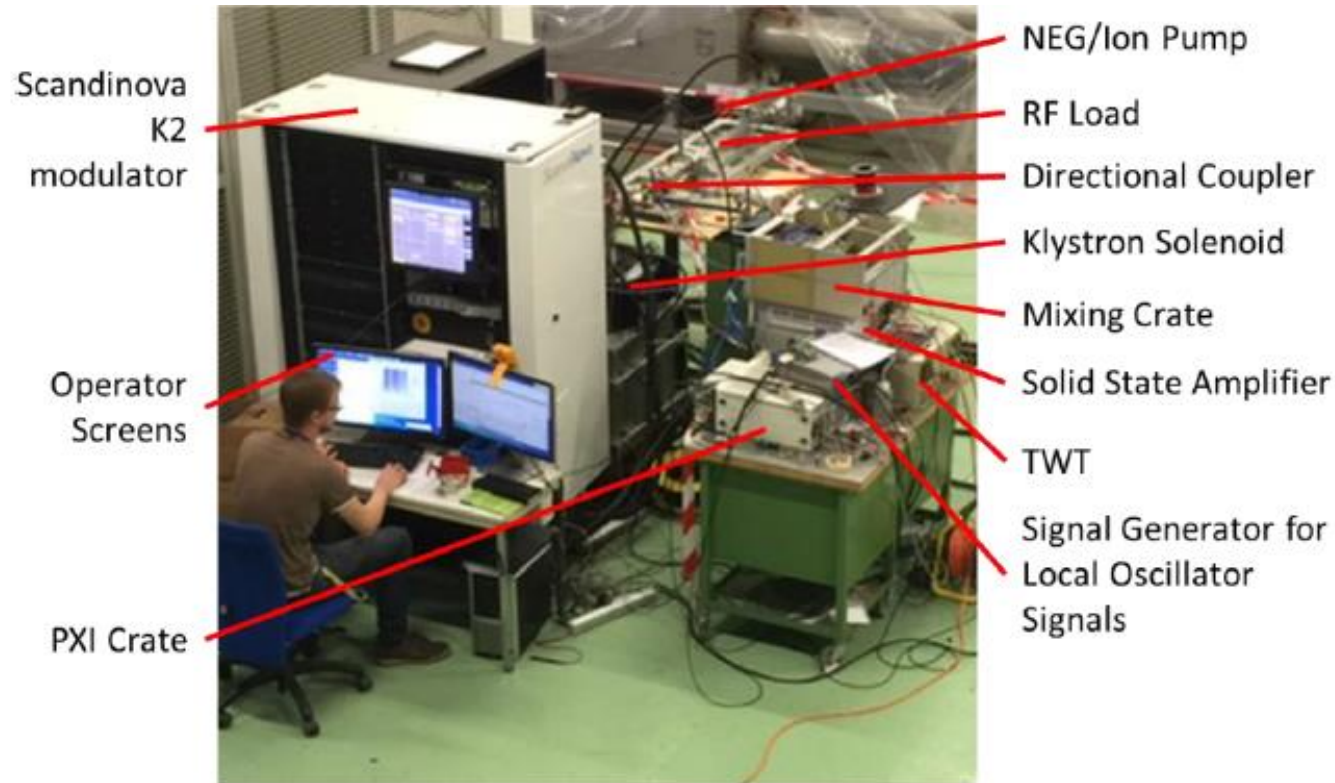


# X-Box 2: BD pulse 545506532

Pulse 545506532  
Log Type: 2



# X-Box 3: High Efficiency Tubes Characterisation



- Acceptance test of Toshiba klystron (Ben's thesis)
  - PXI crate and specific code for klystron testing
  - Oscilloscope card to acquire HV pulses simultaneously
  - Needs improving to protect klystrons
- Other options: external signal generator
  - Design/assembly of interlock crate design to turn RF off in case of high vacuum and reflected power
- Conversations with Scandinova to improve beam voltage meas.
  - Development of a load to calibrate
  - Installation of new CVD – 1% accuracy (?)



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