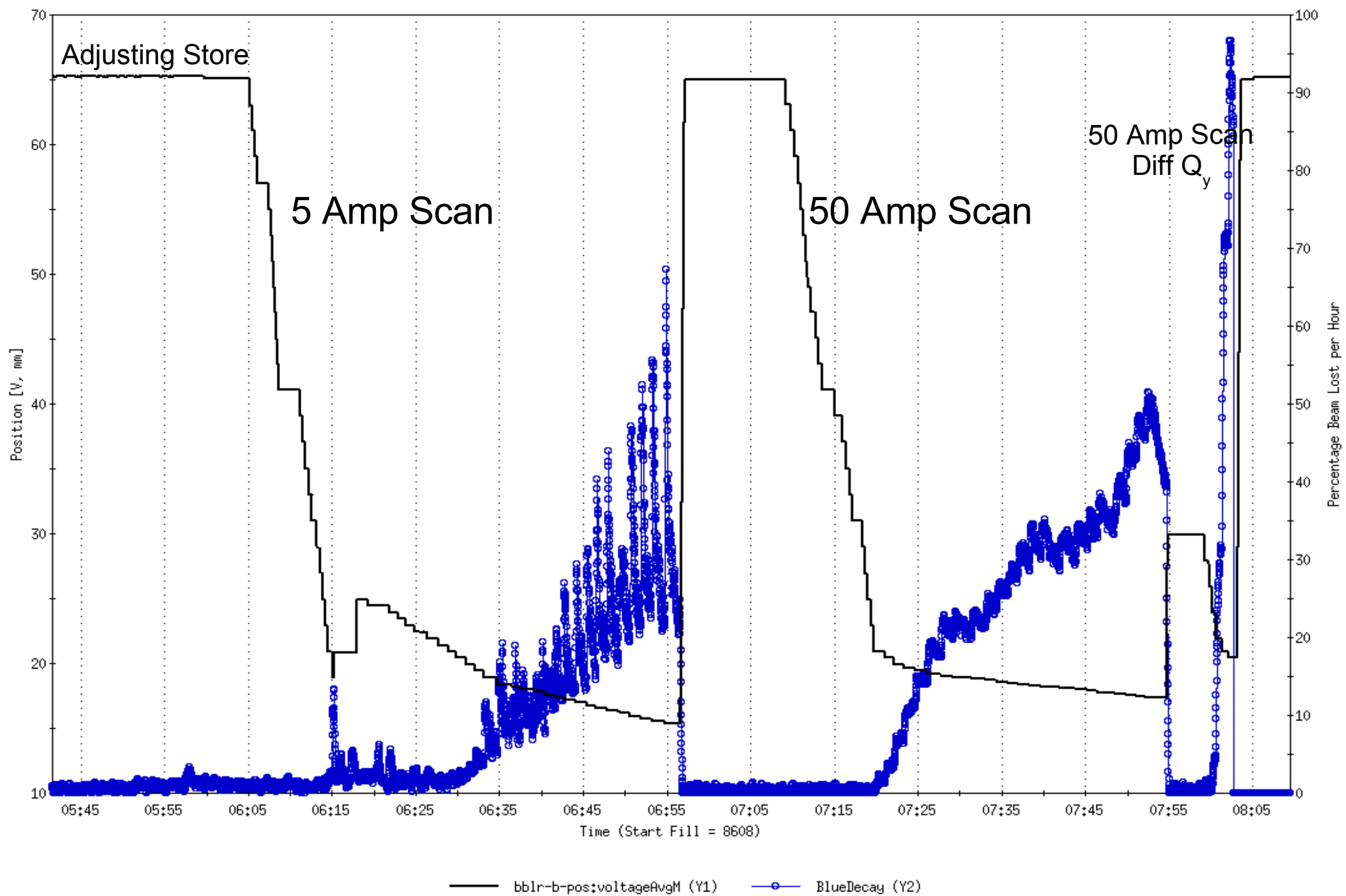

Beam-Beam Wire Experiments

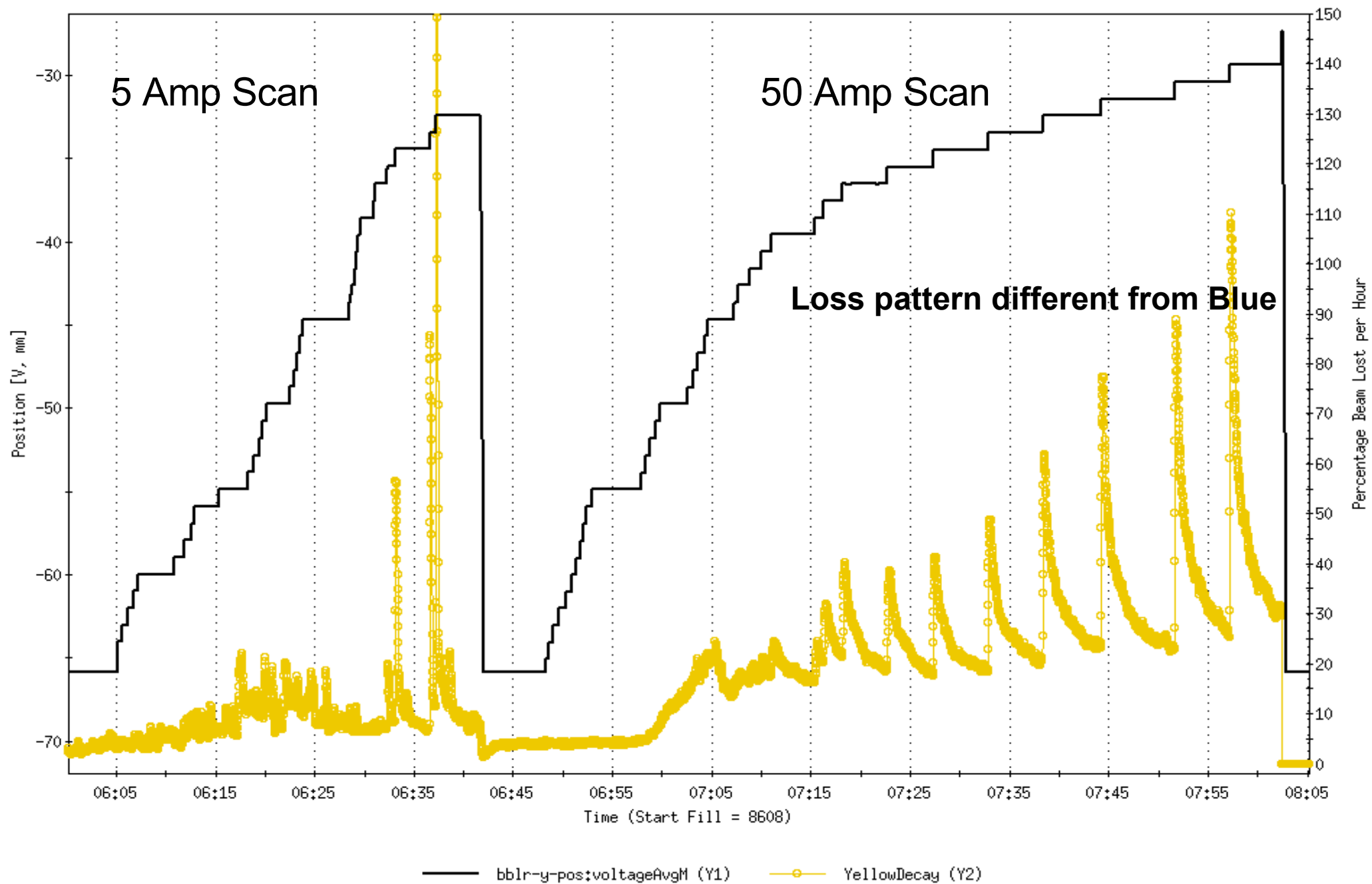
Guillame, Natalia, Rama, Wolfram,

April 25, 2007

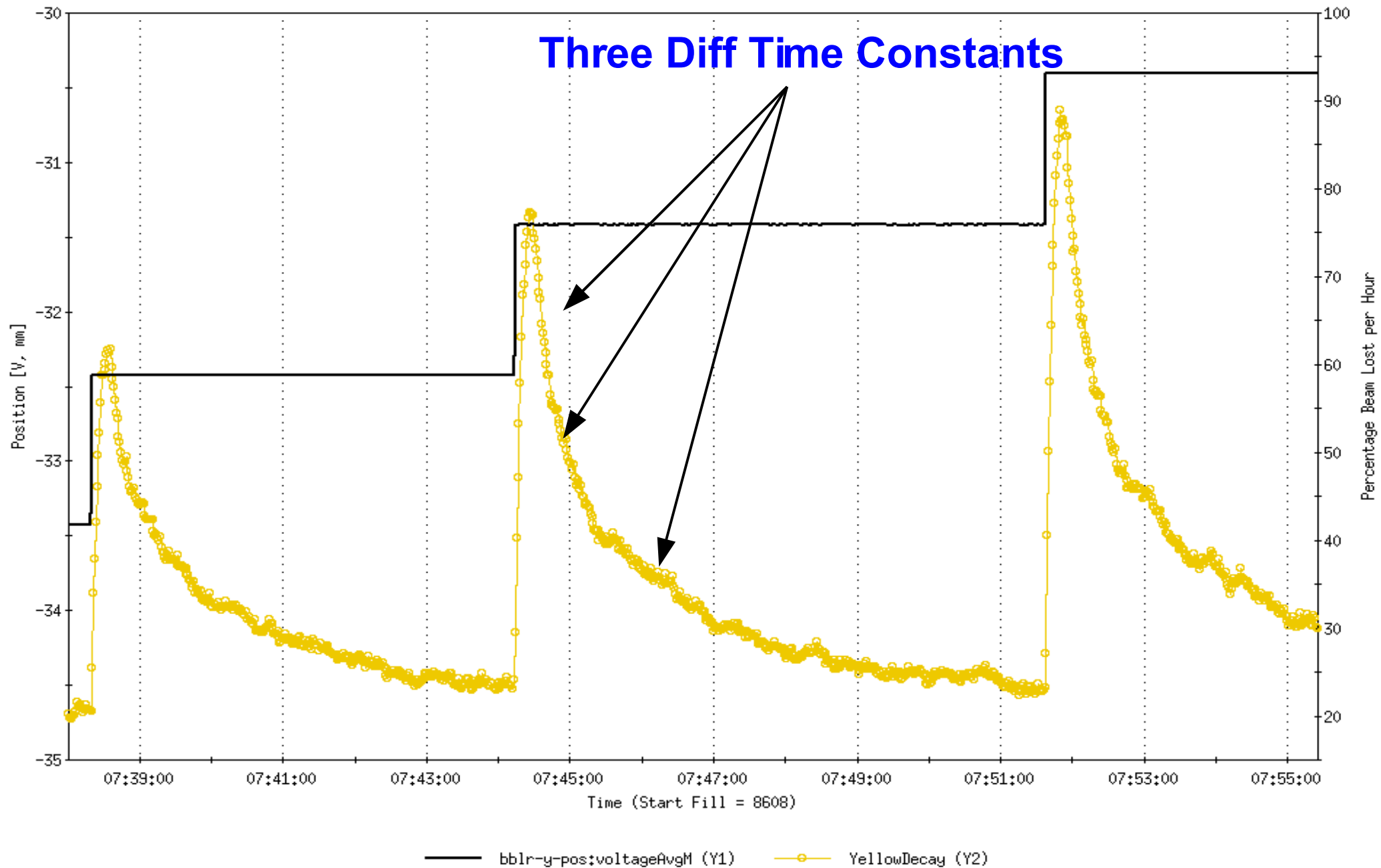
Experiment (~2 Hrs)



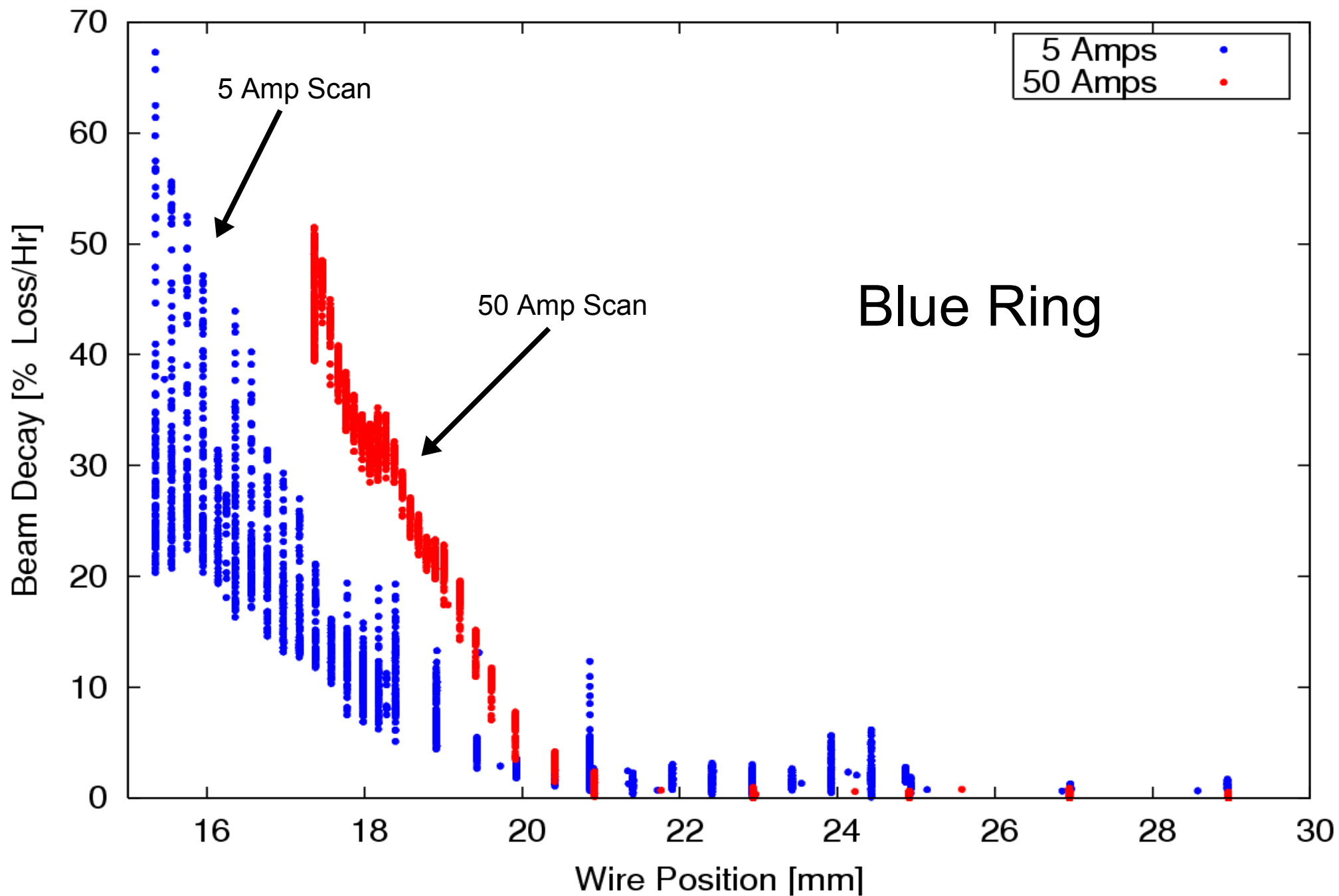
Yellow Ring



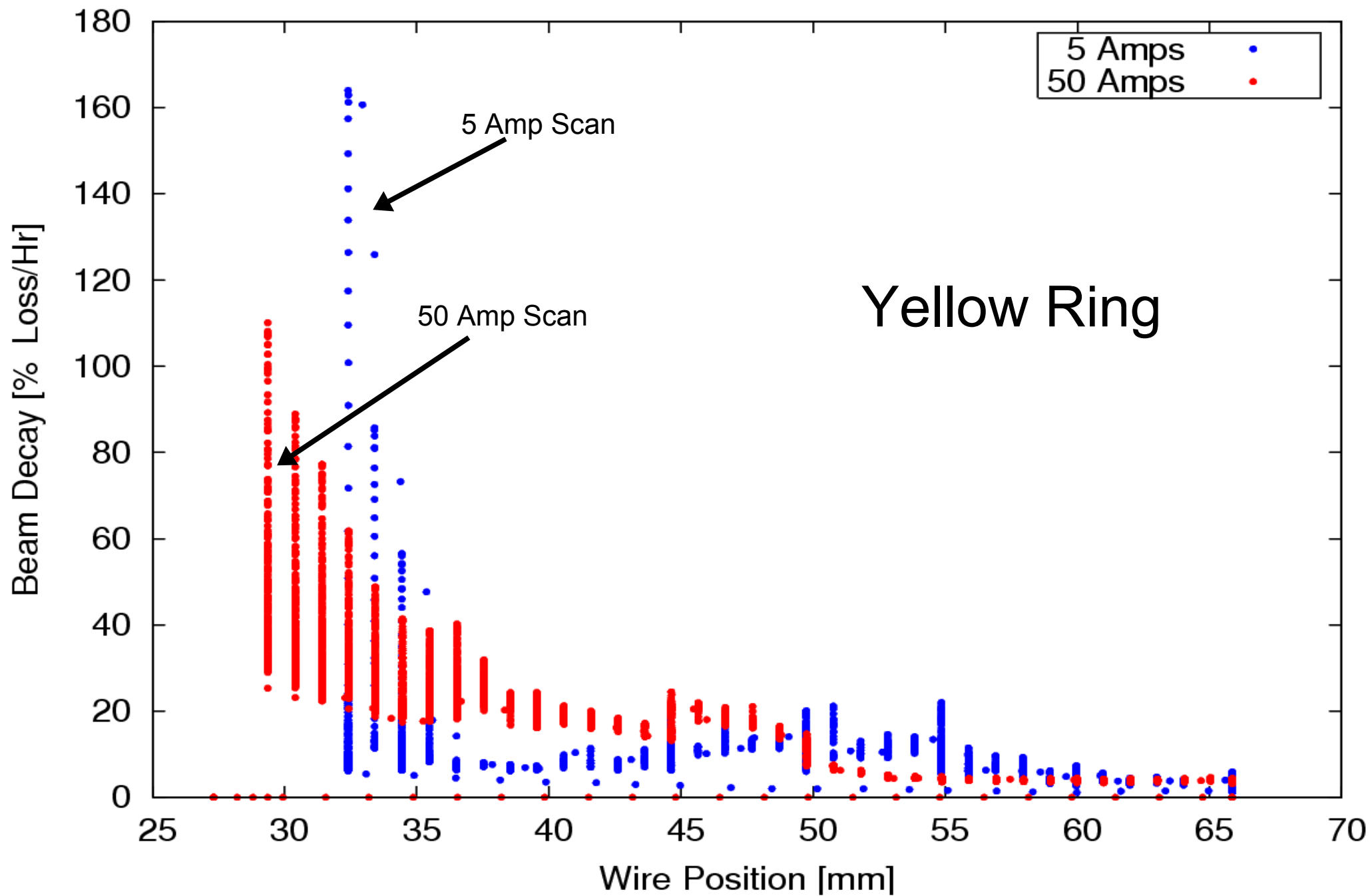
Yellow Ring (50 Amps)



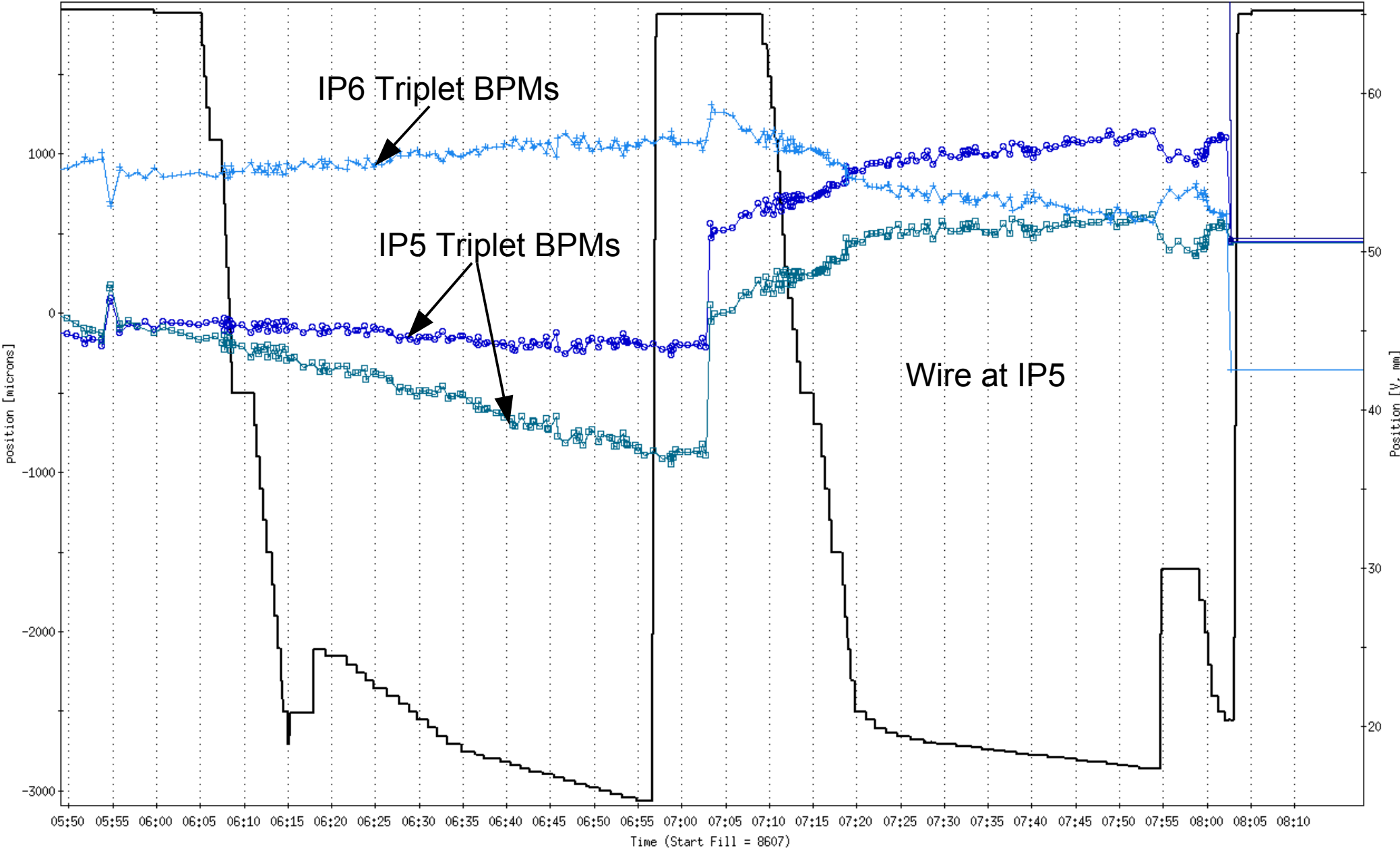
Loss Vs. Wire Position



Loss Vs. Wire Position

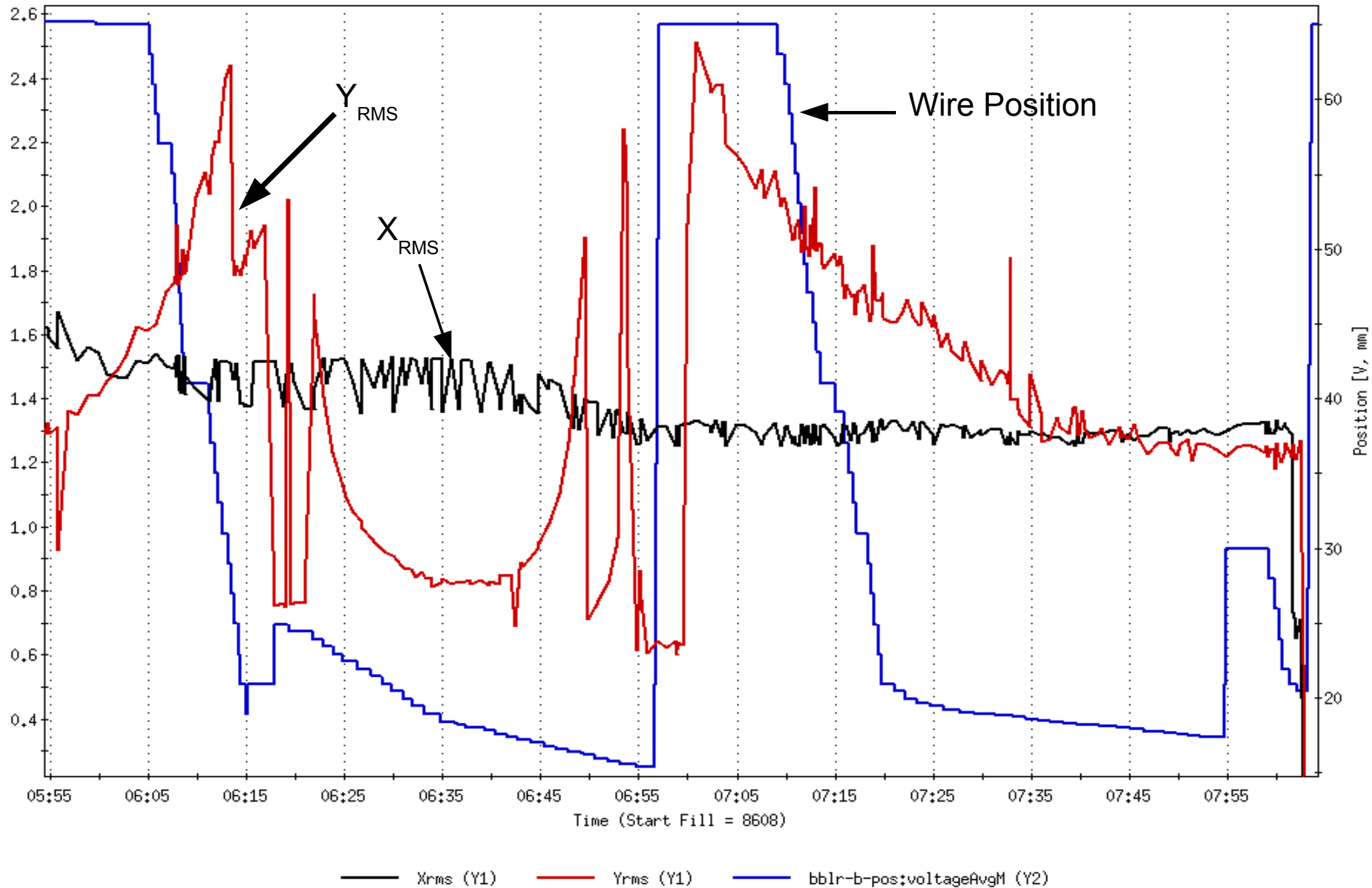


Orbit Vs. Wire Position (Blue Ring)

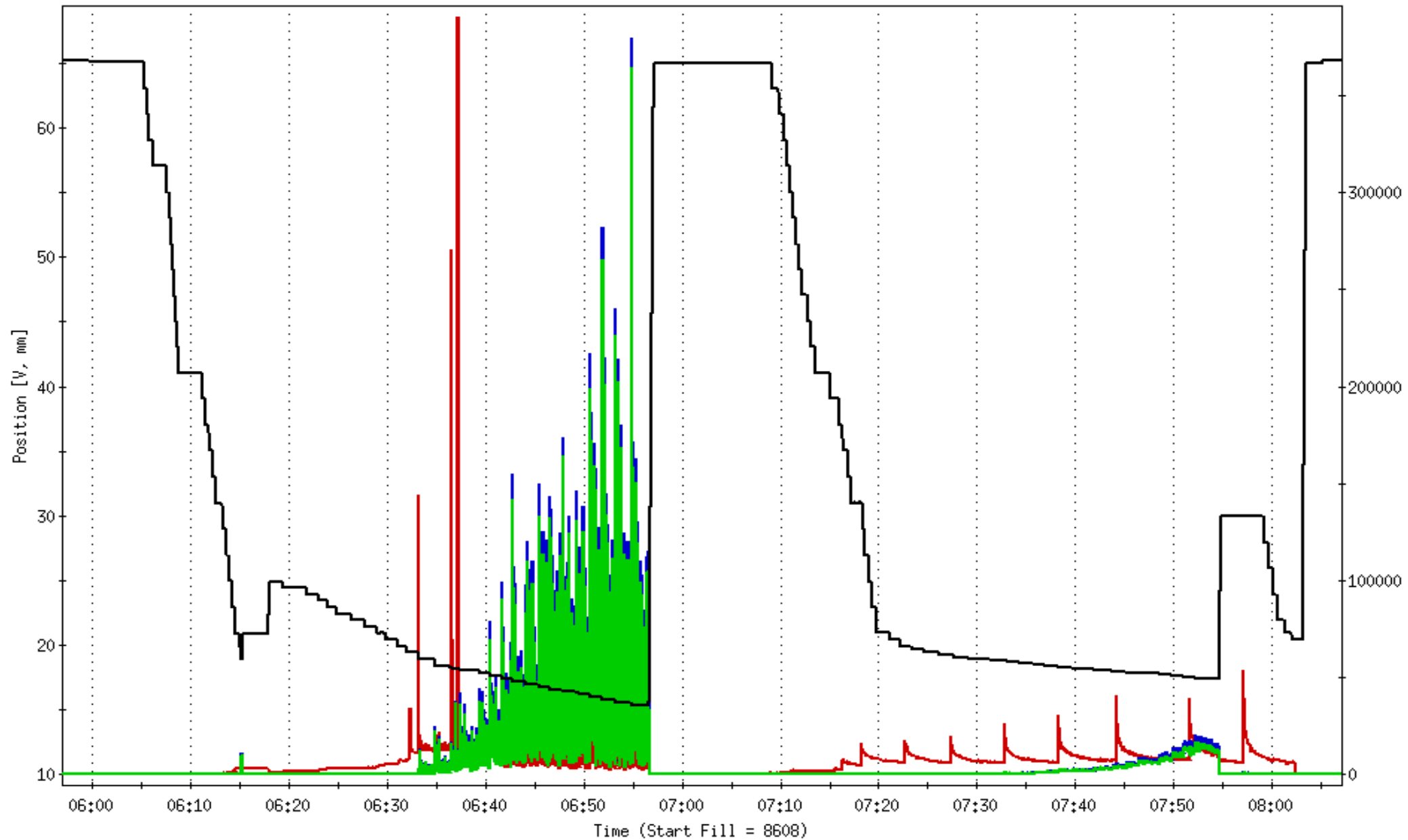


—○— bi5-bv3 (Y1) —□— bi5-bv1 (Y1) —▲— bo6-bv3 (Y1) —+— bo6-bv1 (Y1) — bblr-b-pos:voltageAvgM (Y2)

RMS Orbit Vs. Wire Position (Blue Ring)

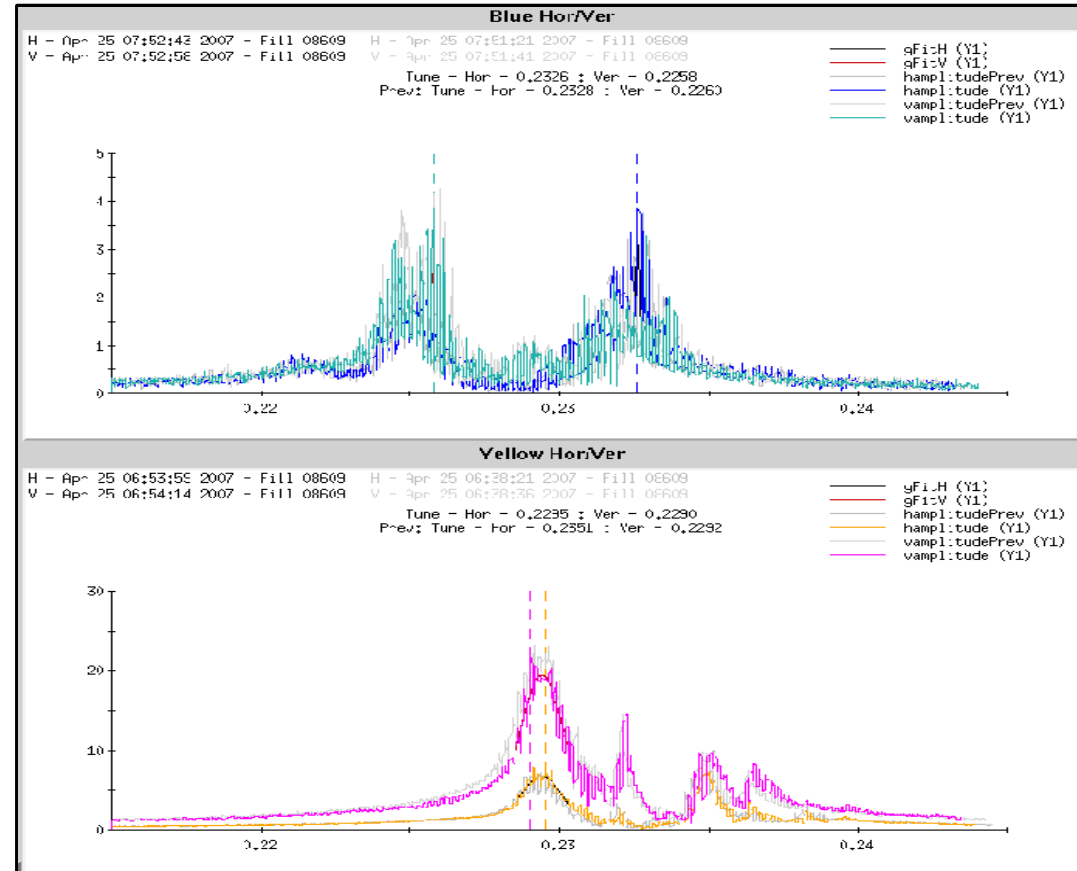
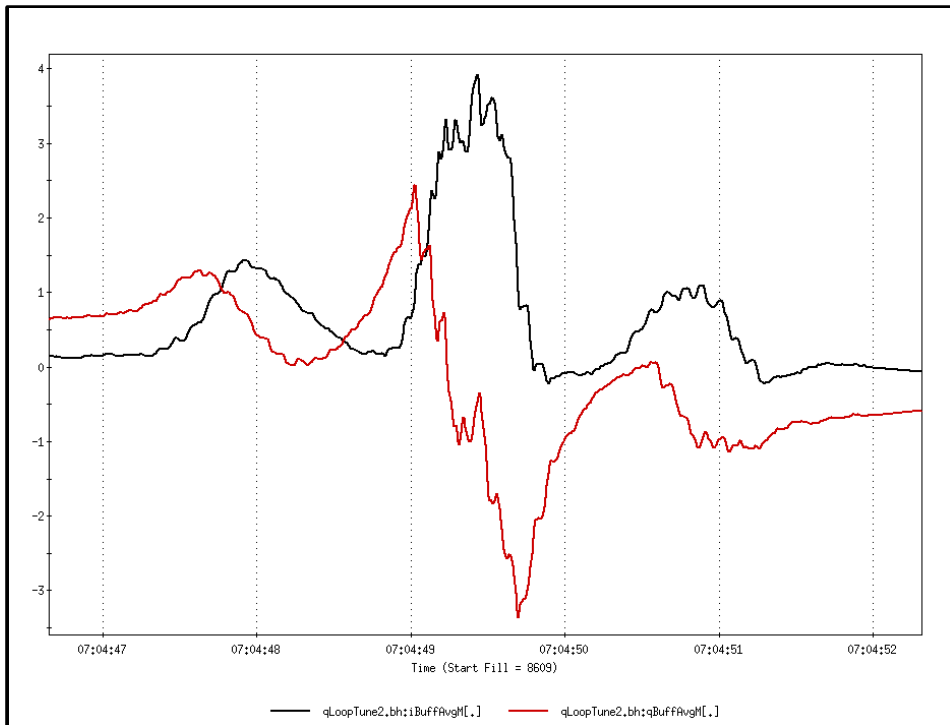


Pin Diode & Wire Position (Blue Ring)



— bblr-b-pos:voltageAvgM (Y1) — BBLR, PinDiode, 5e, b, 1; diffM (Y2)
— BBLR, PinDiode, 5e, b, 2In; diffM (Y2) — BBLR, PinDiode, 5e, b, 2Out; diffM (Y2)

BTF Tune Spectra



Tune measurement impossible in Blue with “Hairs”

Why the big difference between I&Q Data Vs. Amplitude and Phase

More analysis underway...