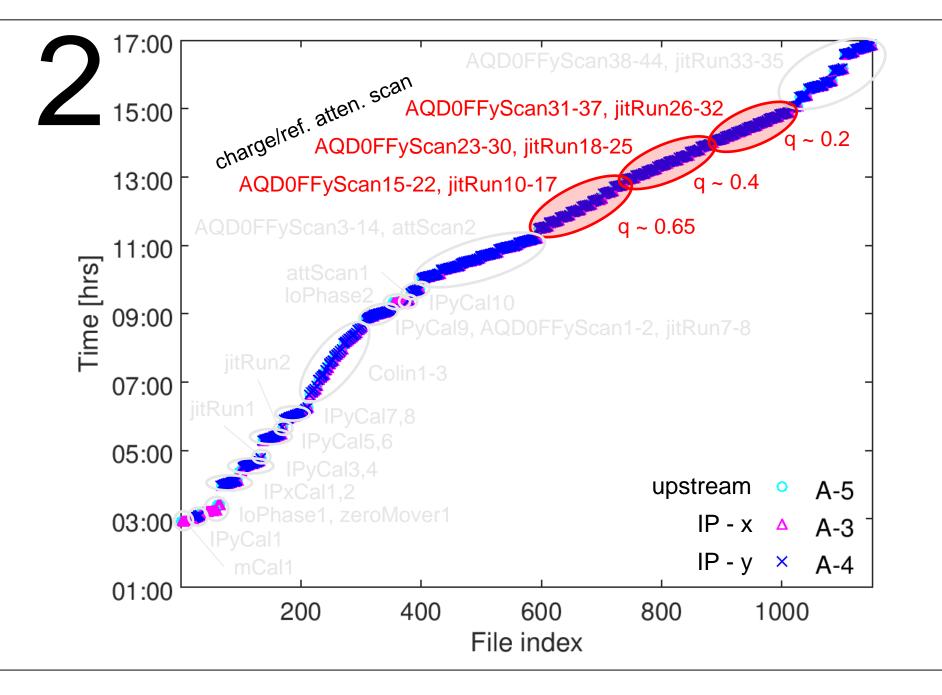
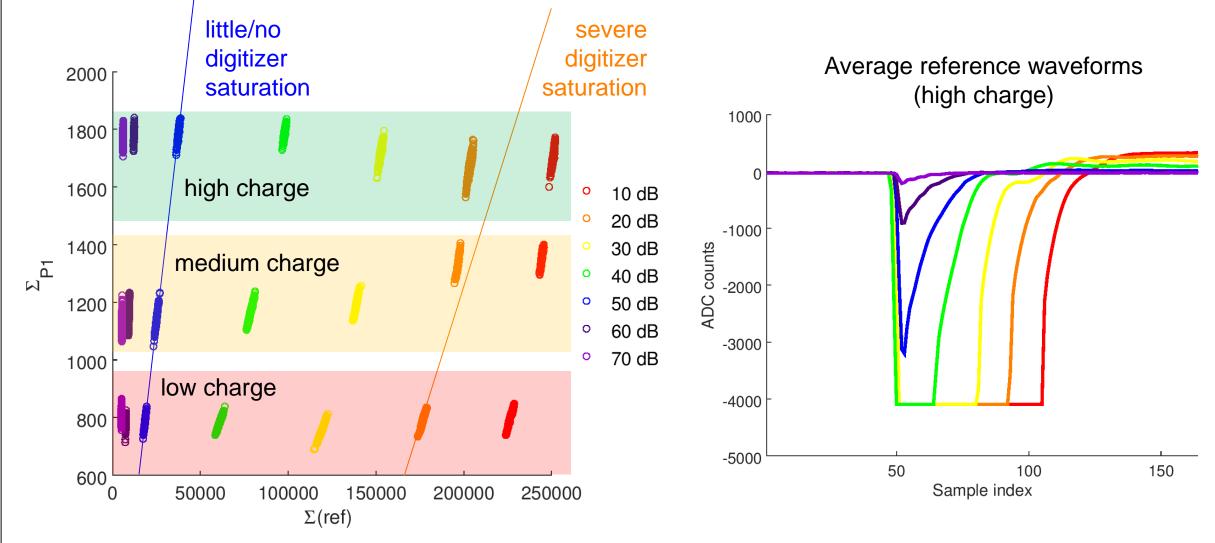
FONT Meeting Friday 6 July 2018

## Charge/reference attenuation scan: waveforms

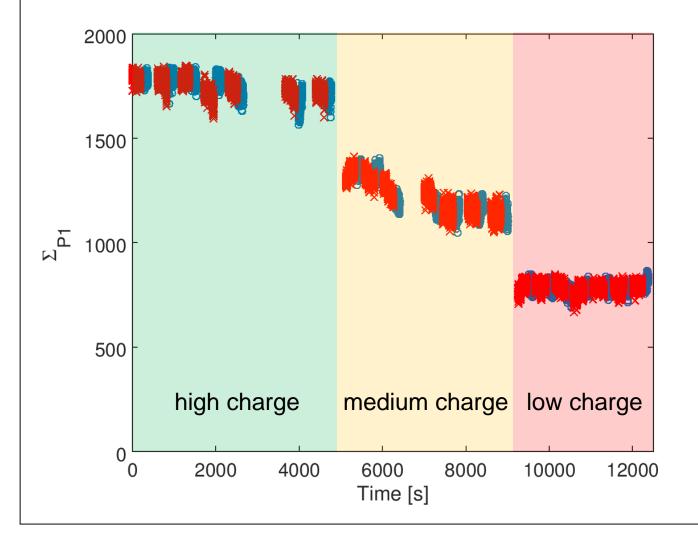
**Douglas BETT** 



## Integrated reference vs. upstream sum

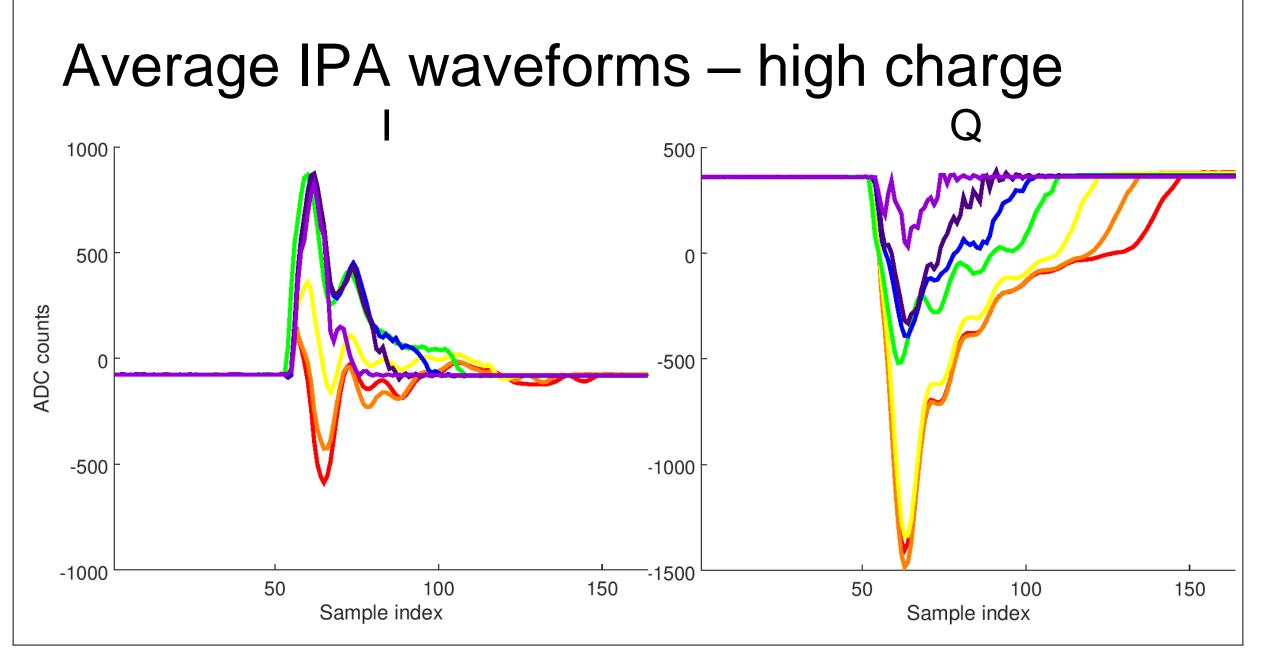


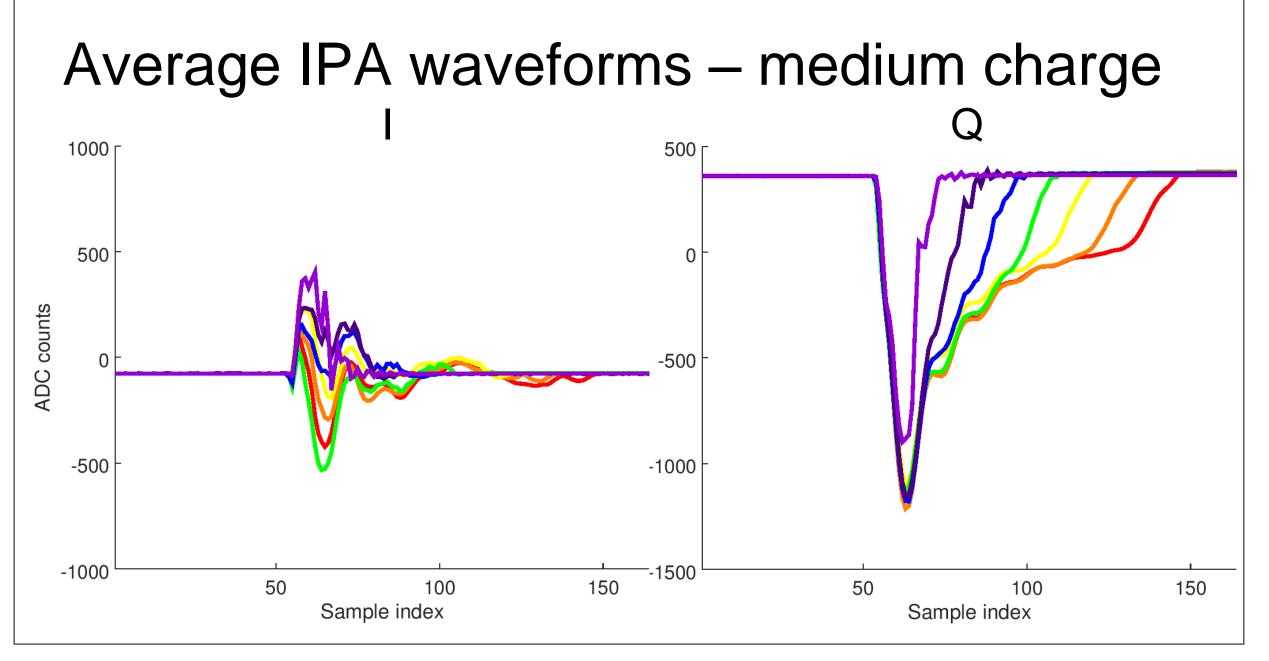
## Charge as function of time

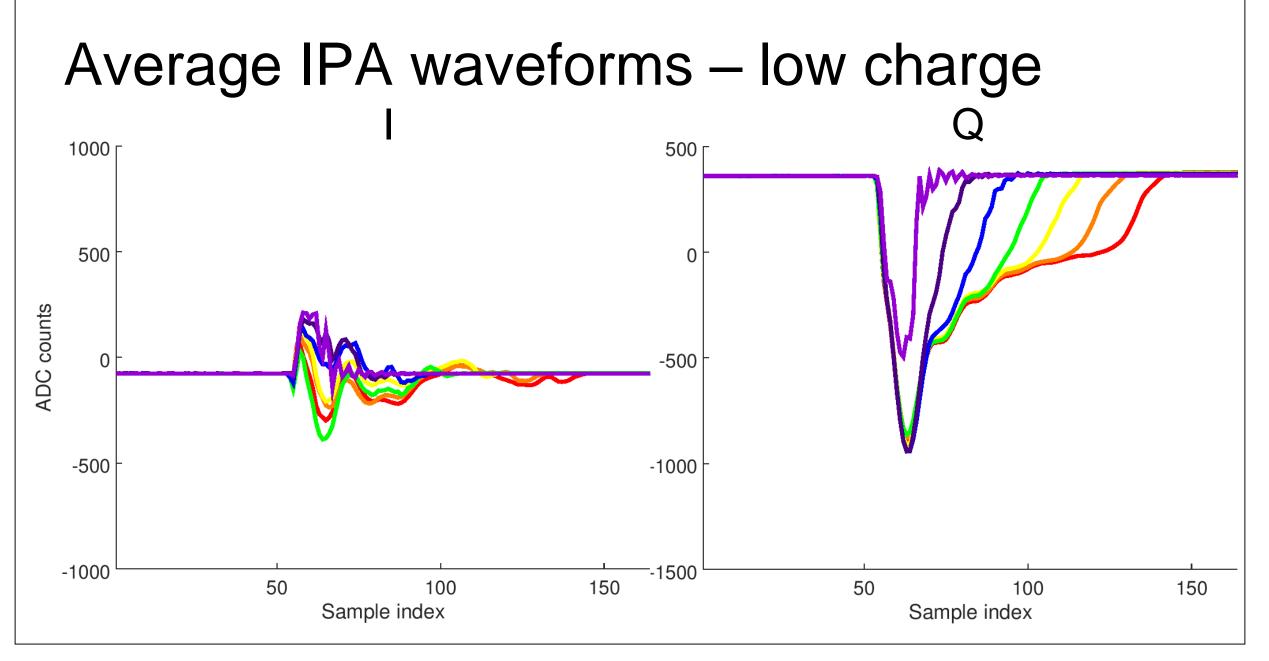


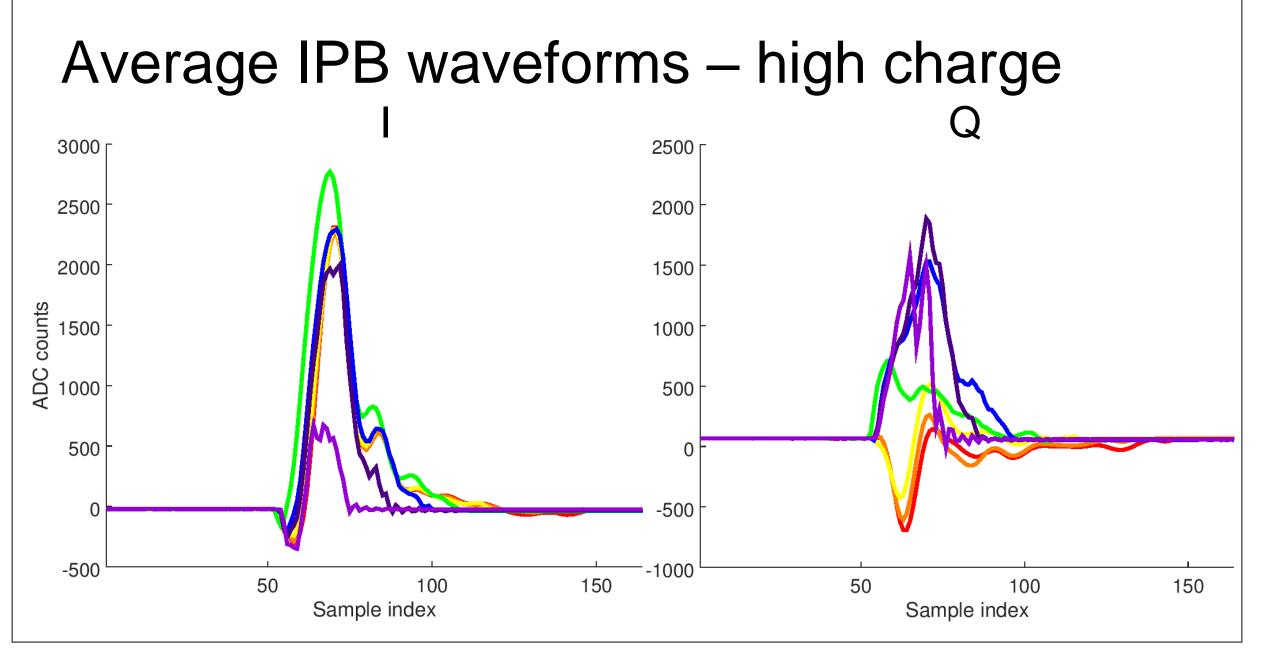
- Order of settings for high charge:
   40 50 60 70 30 20 10
- Otherwise 10 to 70
- Blue: jitter runs (400 triggers)
- Red: calibration runs

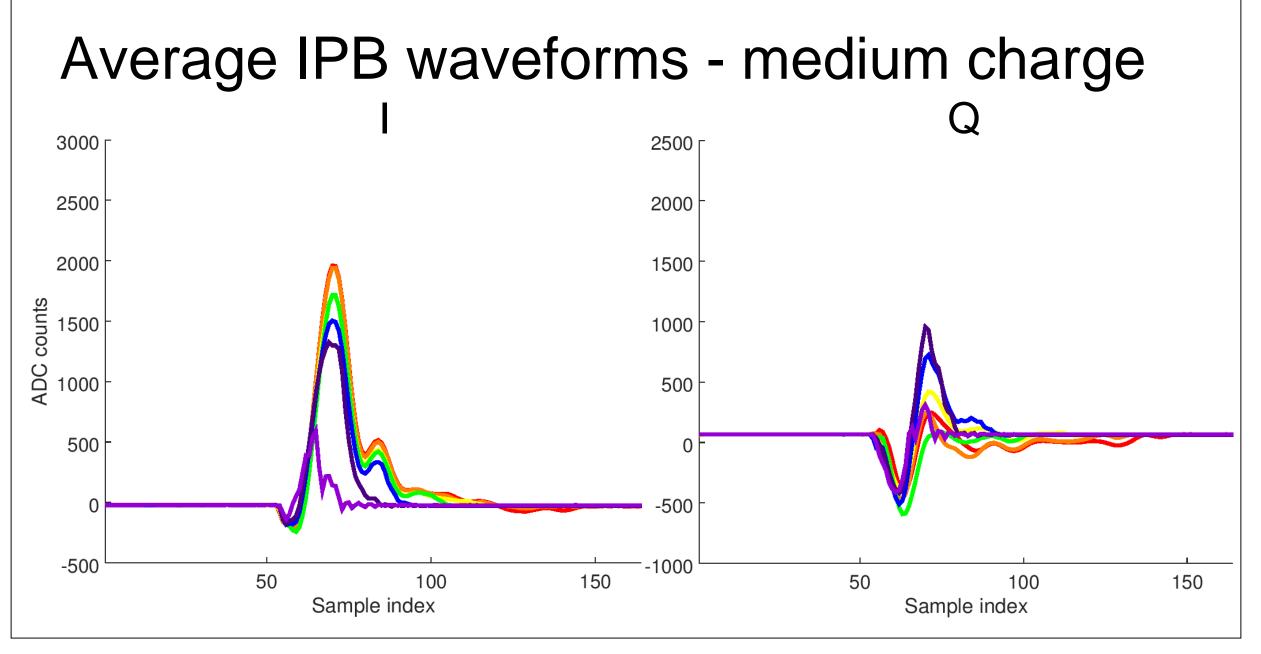
   (-2 µm to +2 µm, 100 triggers / setting)

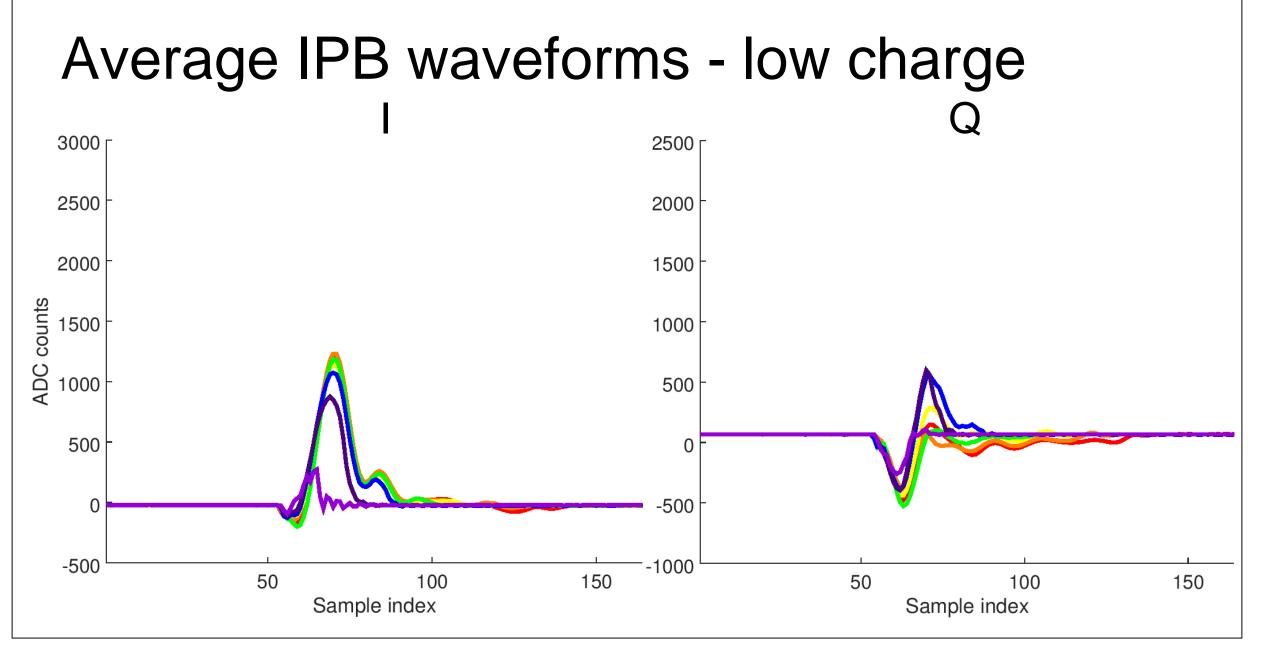


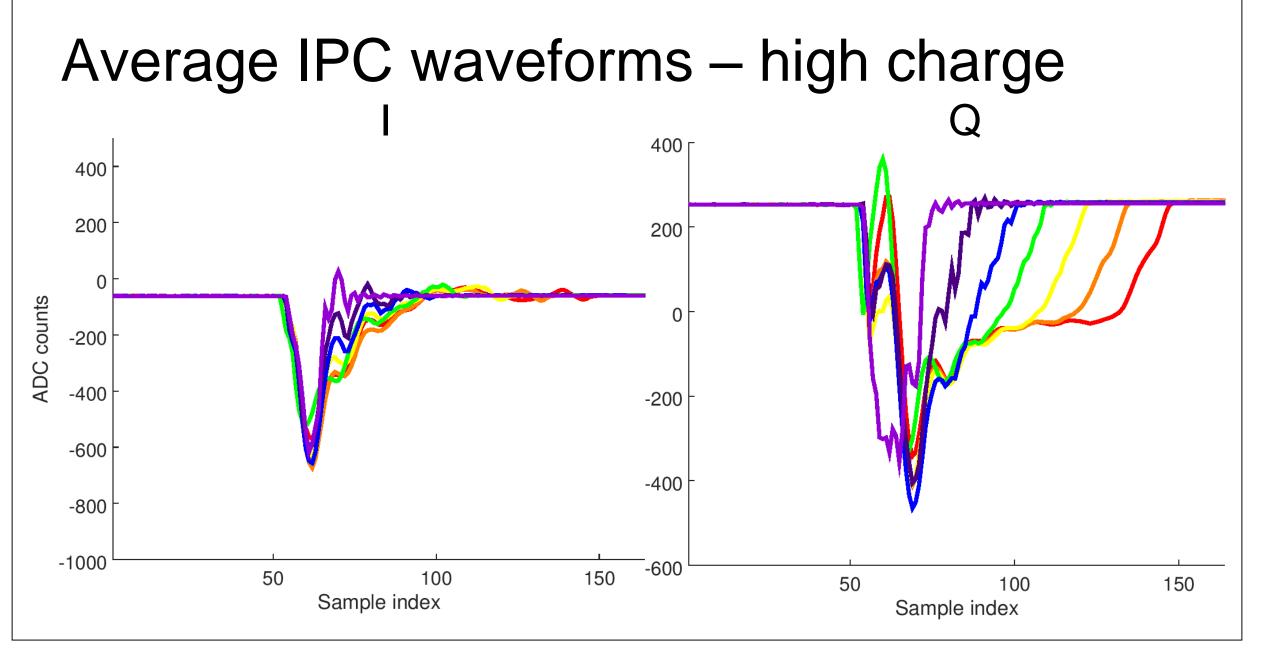


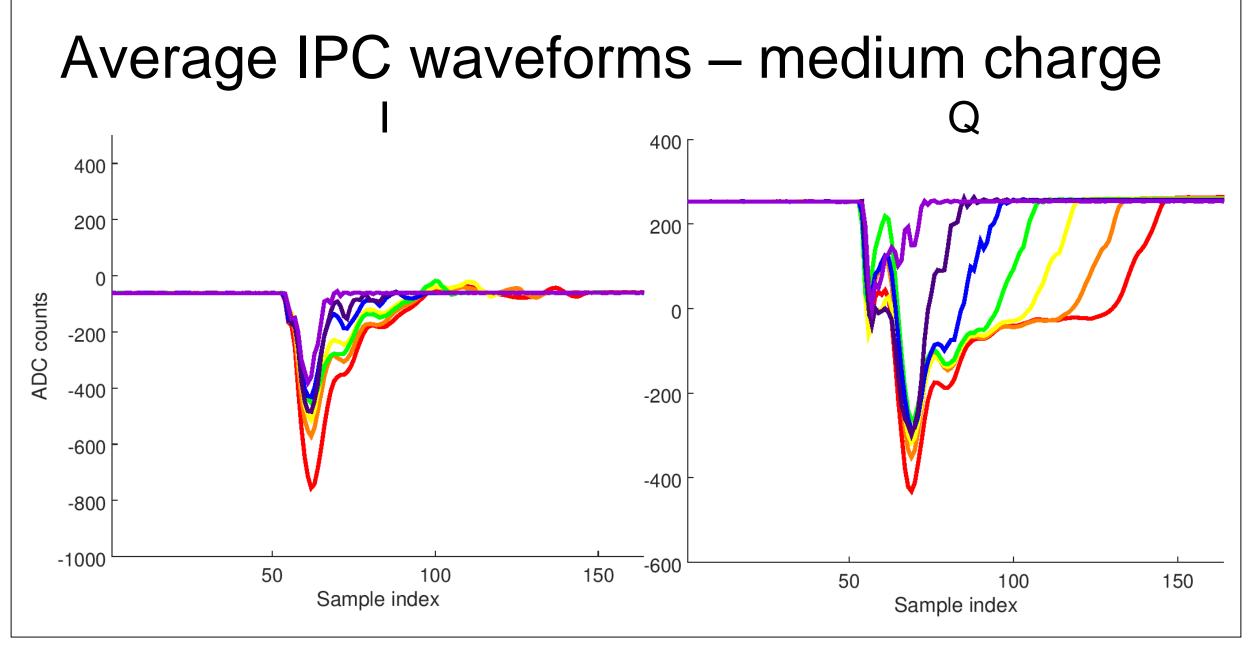


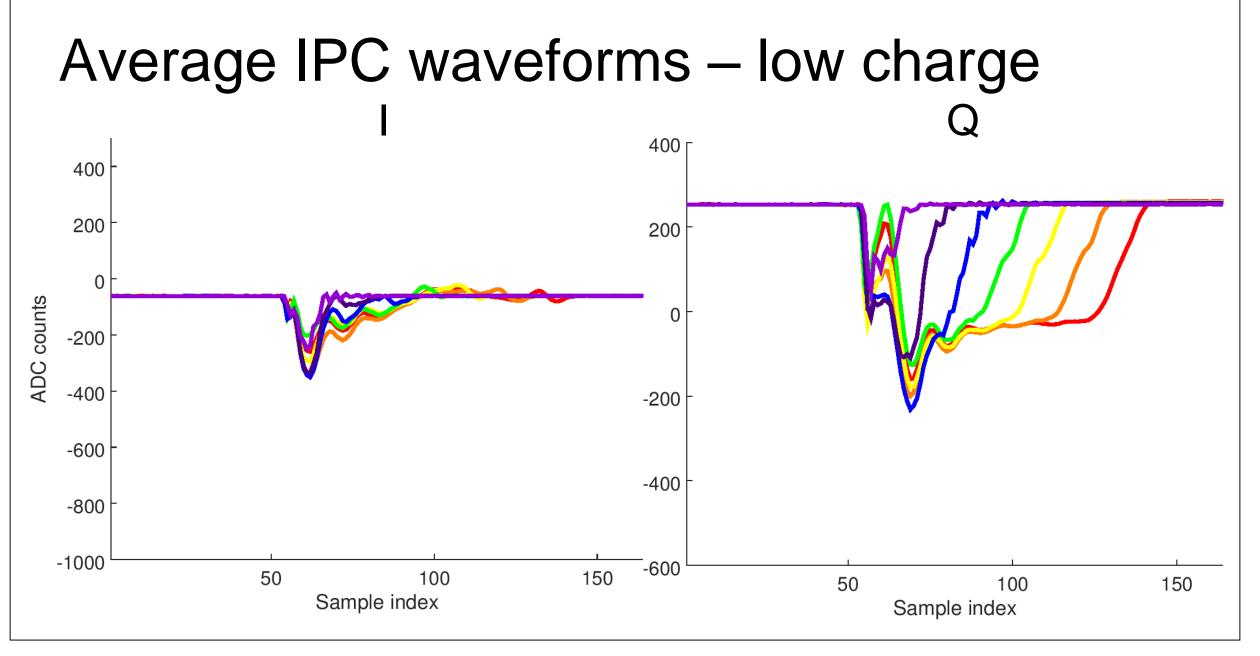












## Conclusion

- Very pronounced Q baseline for IPA, IPC
- Several puzzling features have to be checked but are presumably due to position drifts:
  - IPA-Q @ 70 dB larger for high charge than medium charge
  - IPB-I @ high charge larger for 40 dB than lower attenuation settings