

Noise filter

ProtoDUNE cold electronics

David Adams

BNL

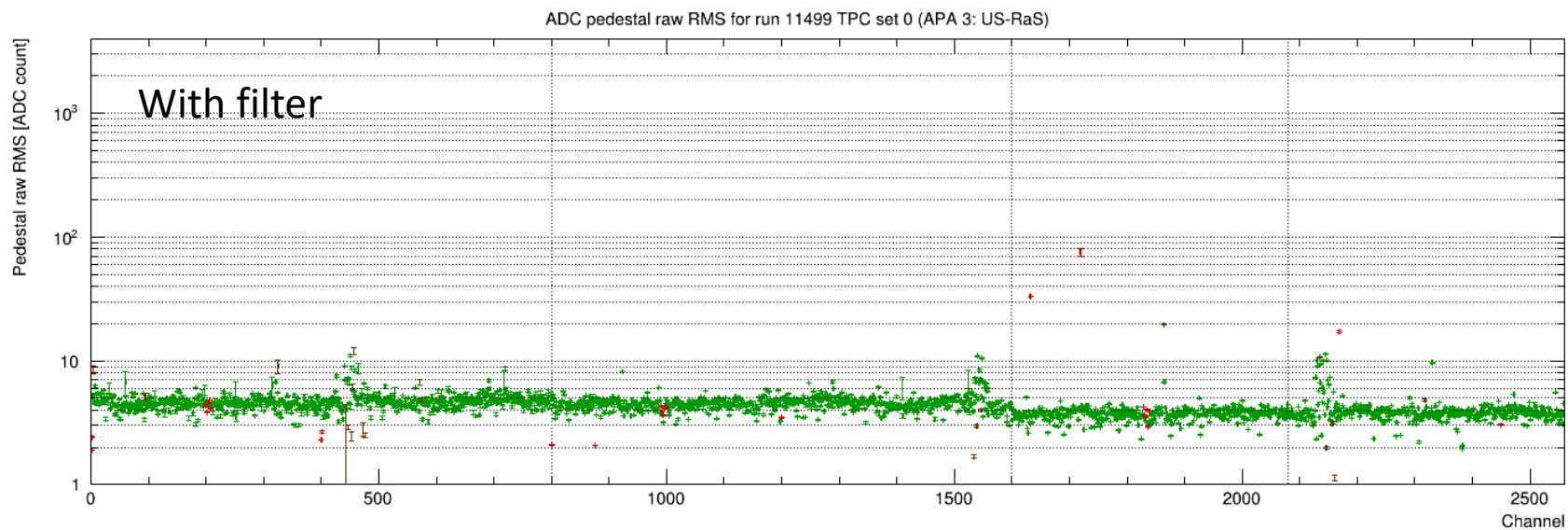
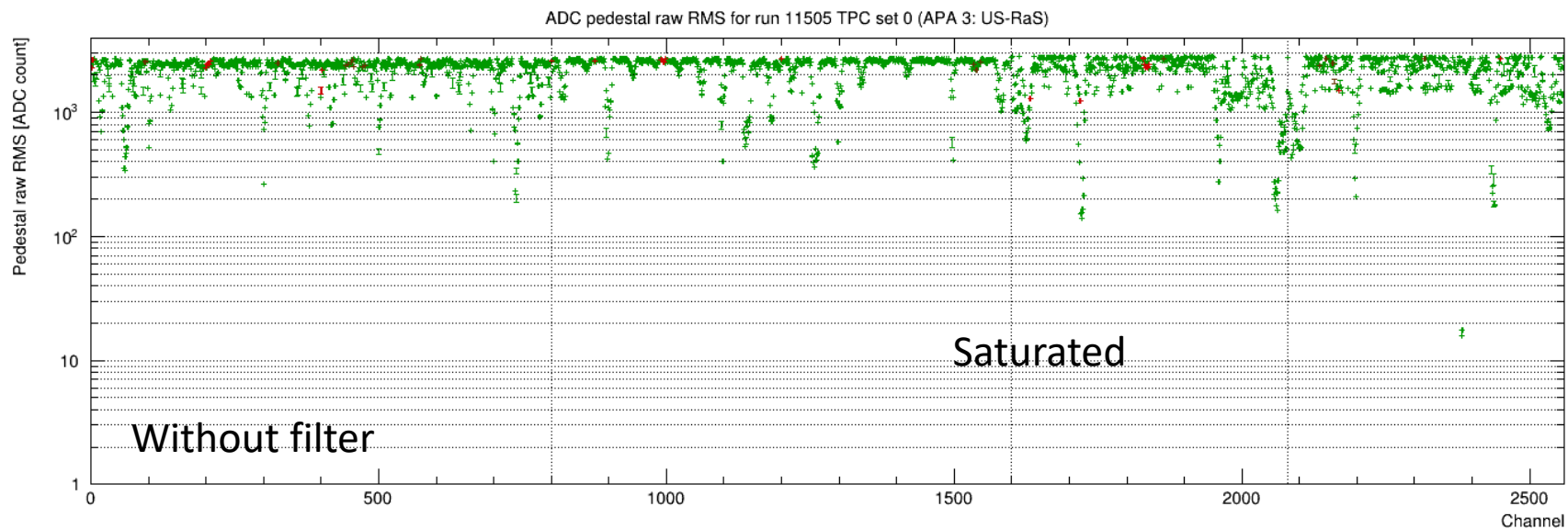
July 6, 2020

Updated 13:40 EDT

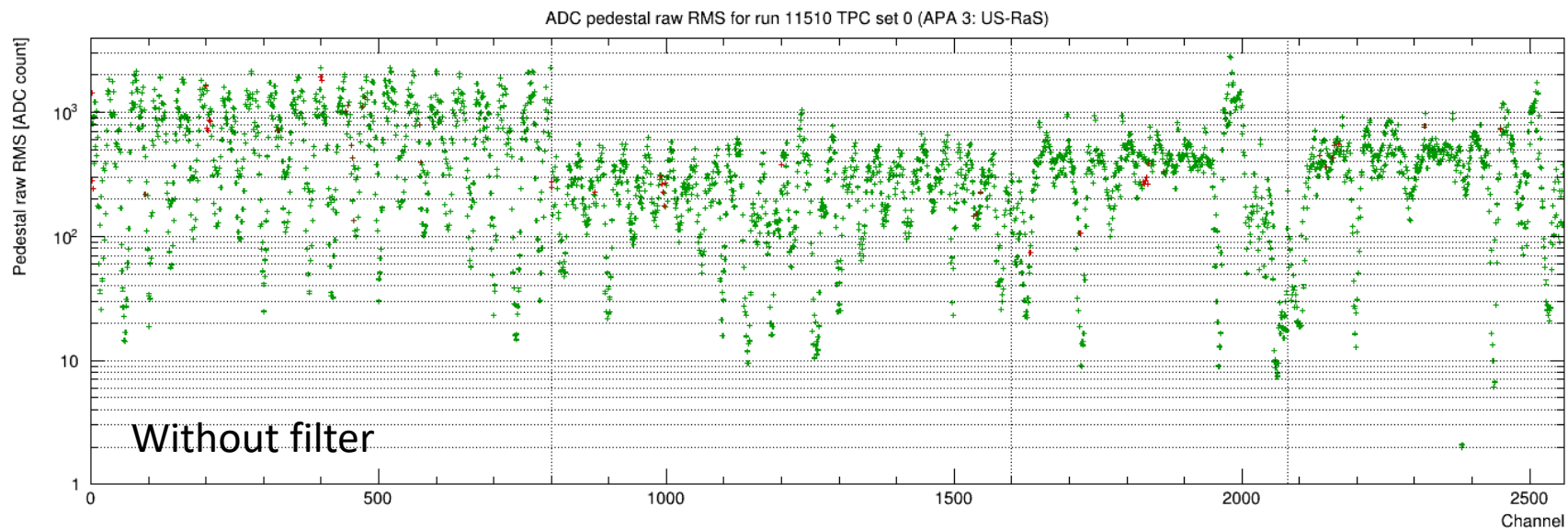
Introduction

APA 3 raw RMS for recent runs with and without warm filter

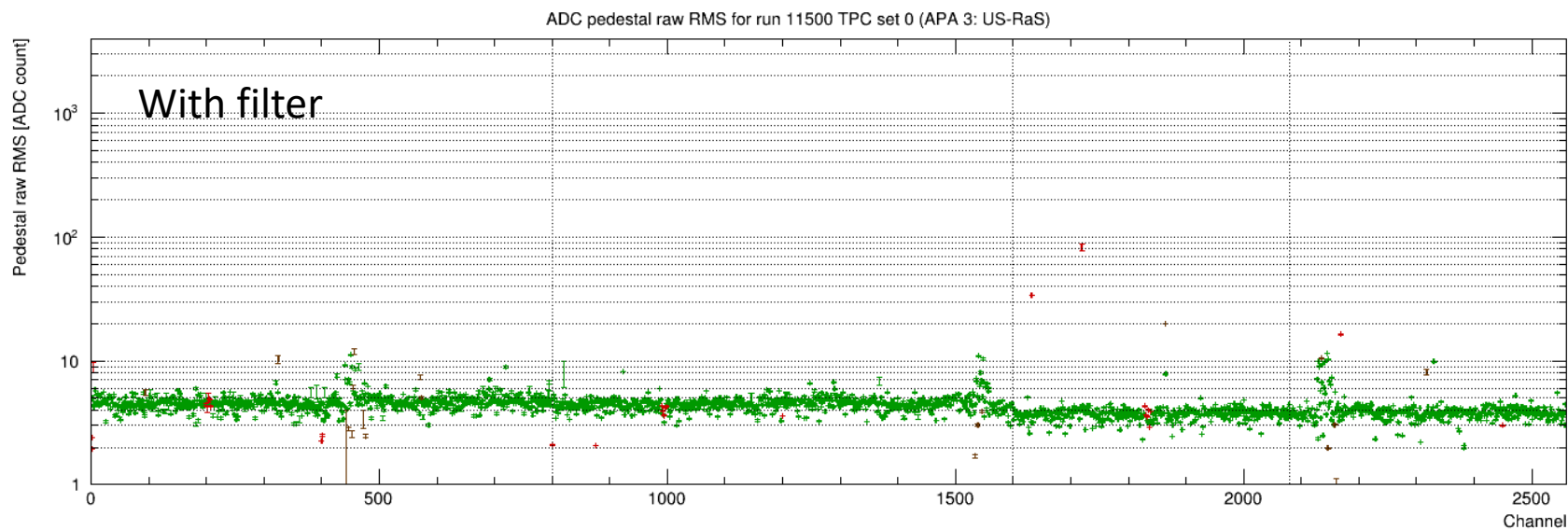
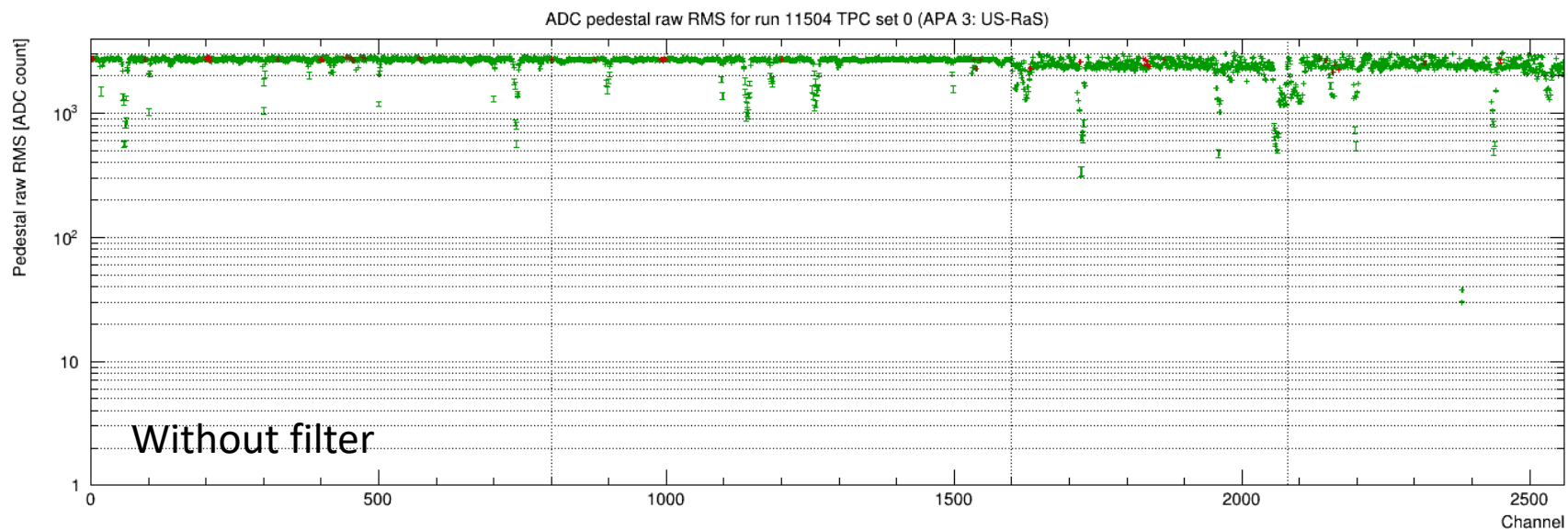
30 kHz, 8 Vpp



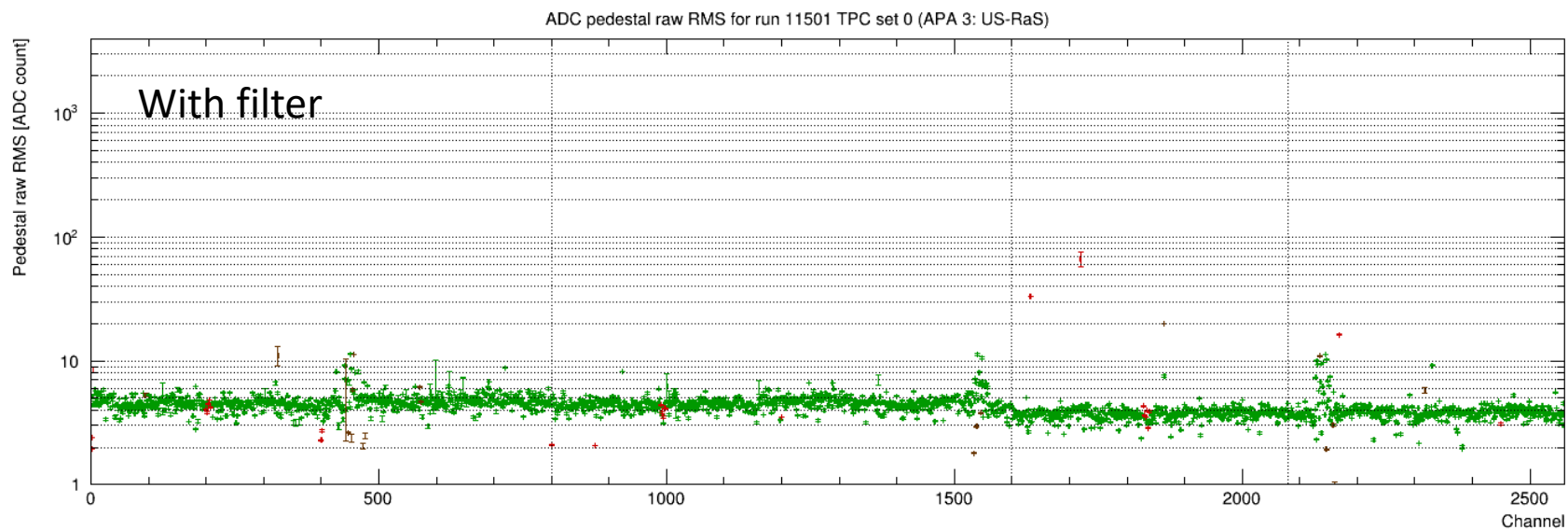
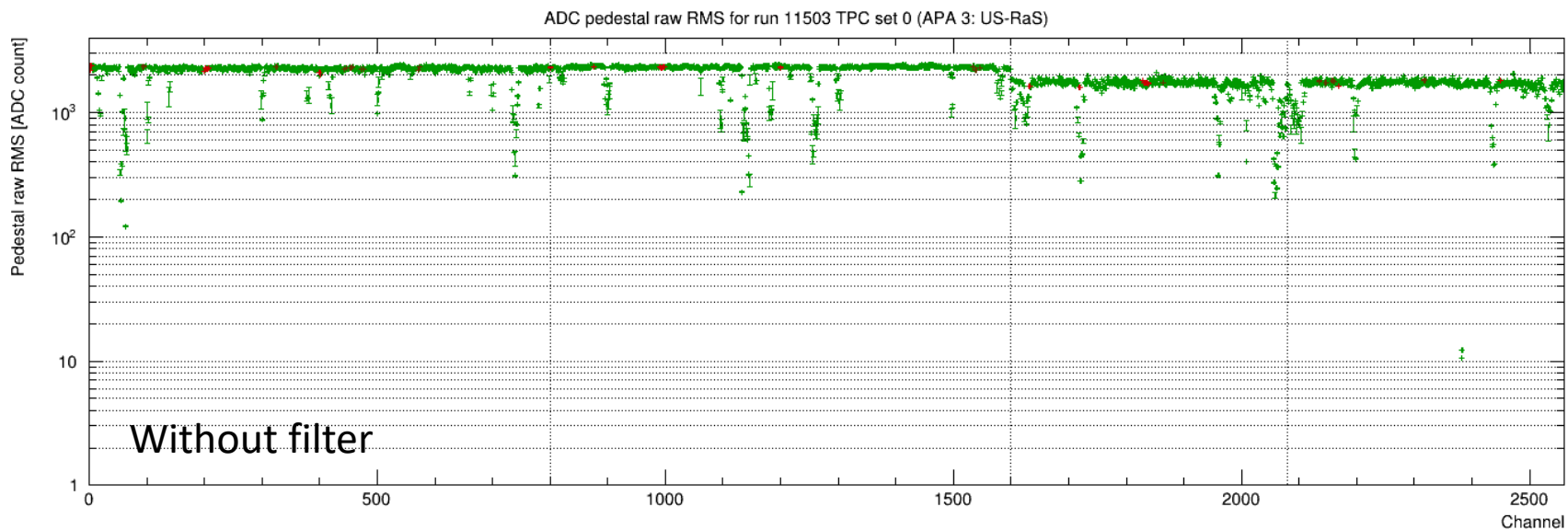
30 kHz, 0.5 Vpp



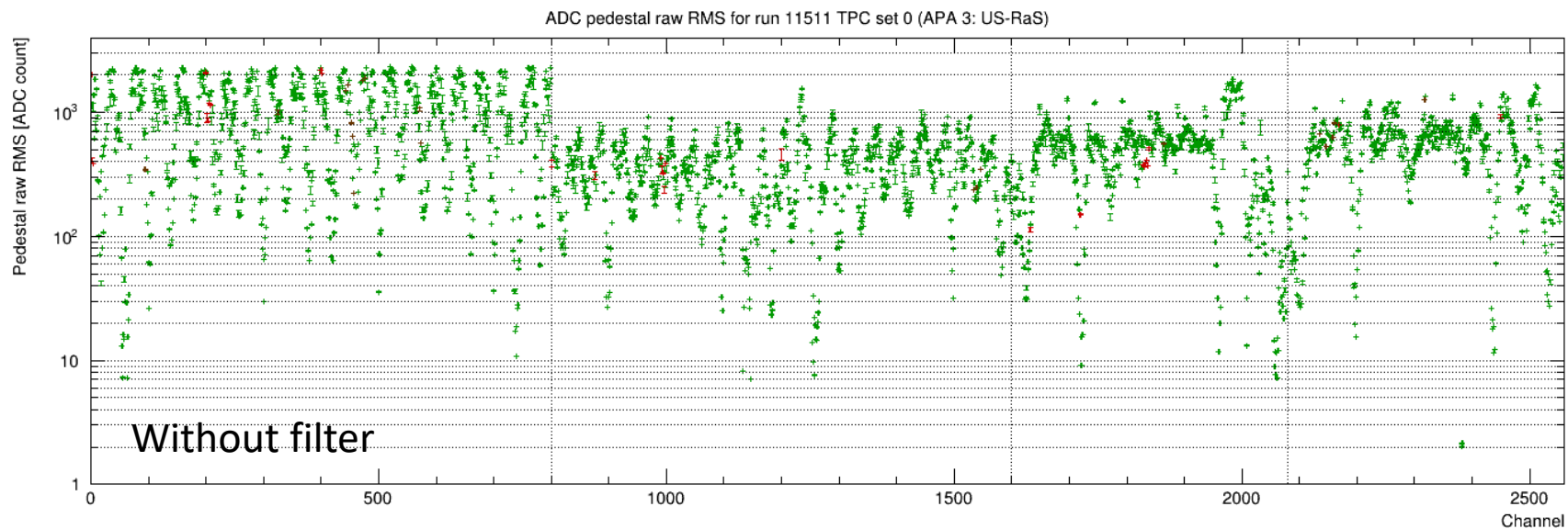
100 KHz, 8 Vpp



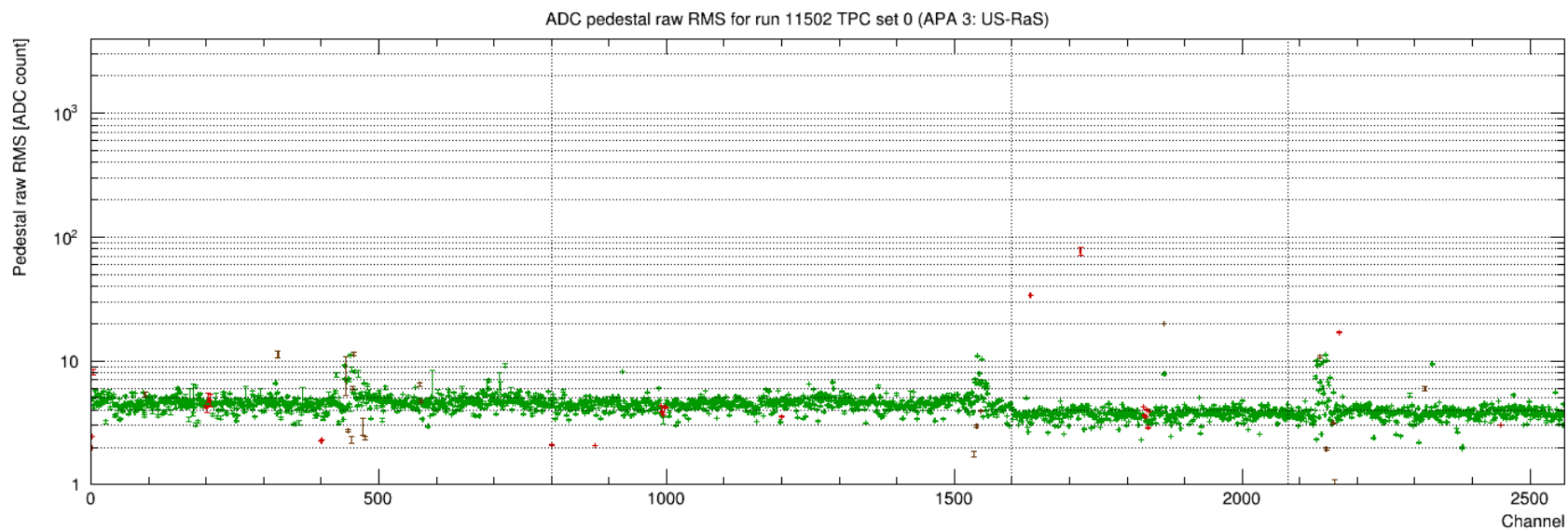
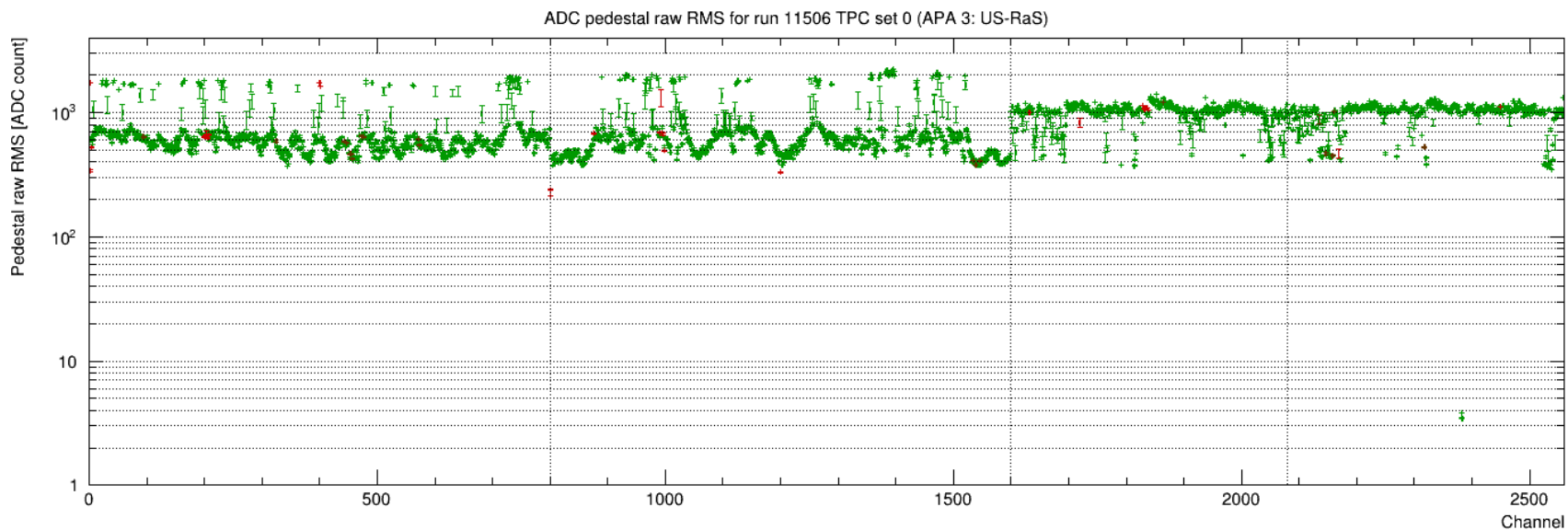
300 kHz, 8 Vpp



300 kHz, 0.5 Vpp



Random 8 Vpp

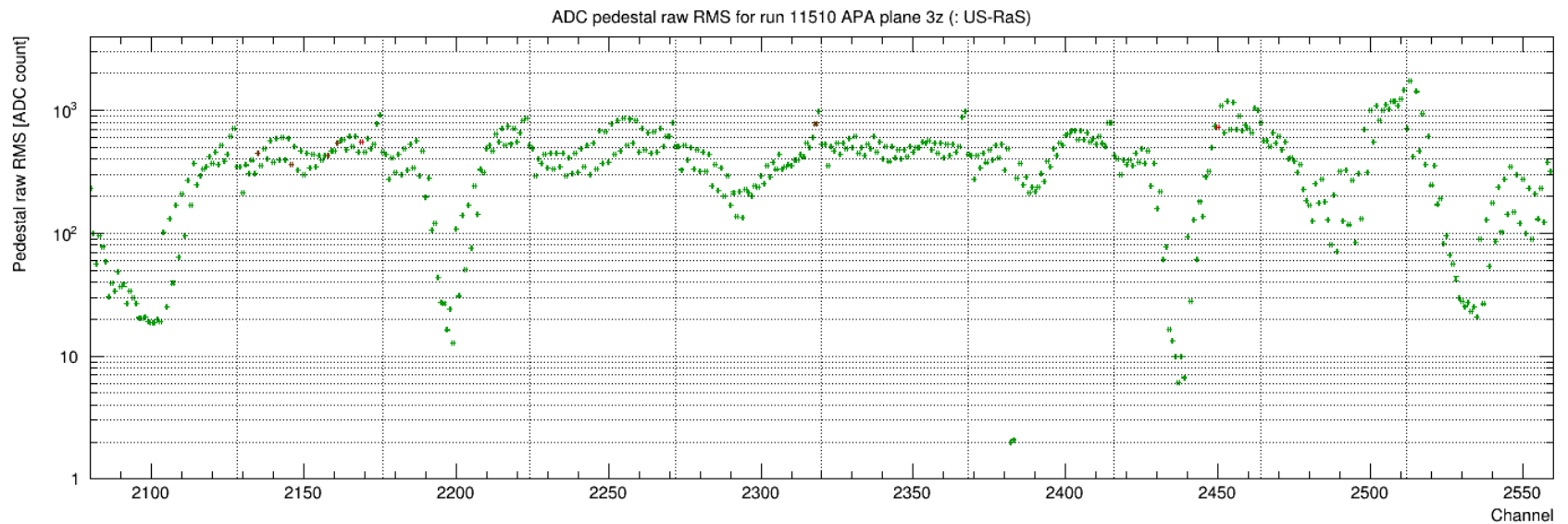
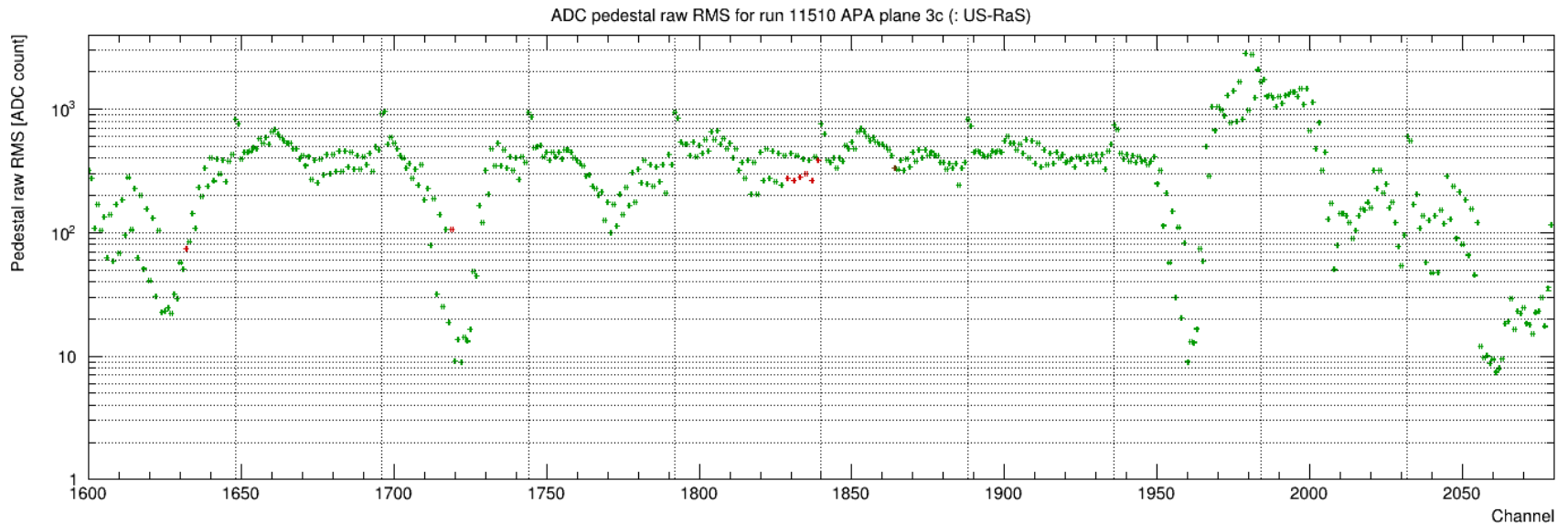


By APA plane

Following show noise by APA plane

- FEMB boundaries are shown

30 kHz w/o filter, collection planes



30 kHz w/o filter, induction planes

