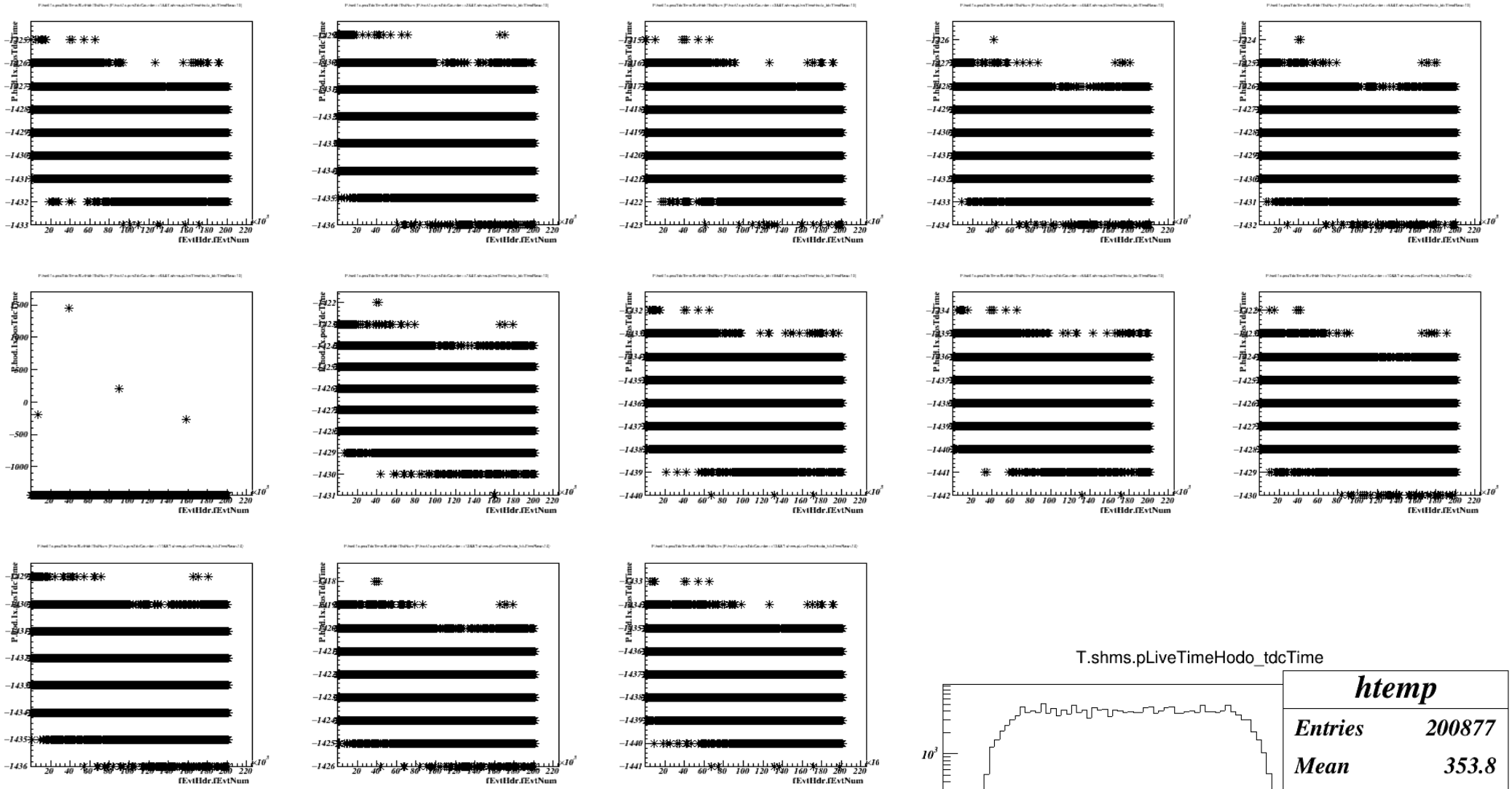
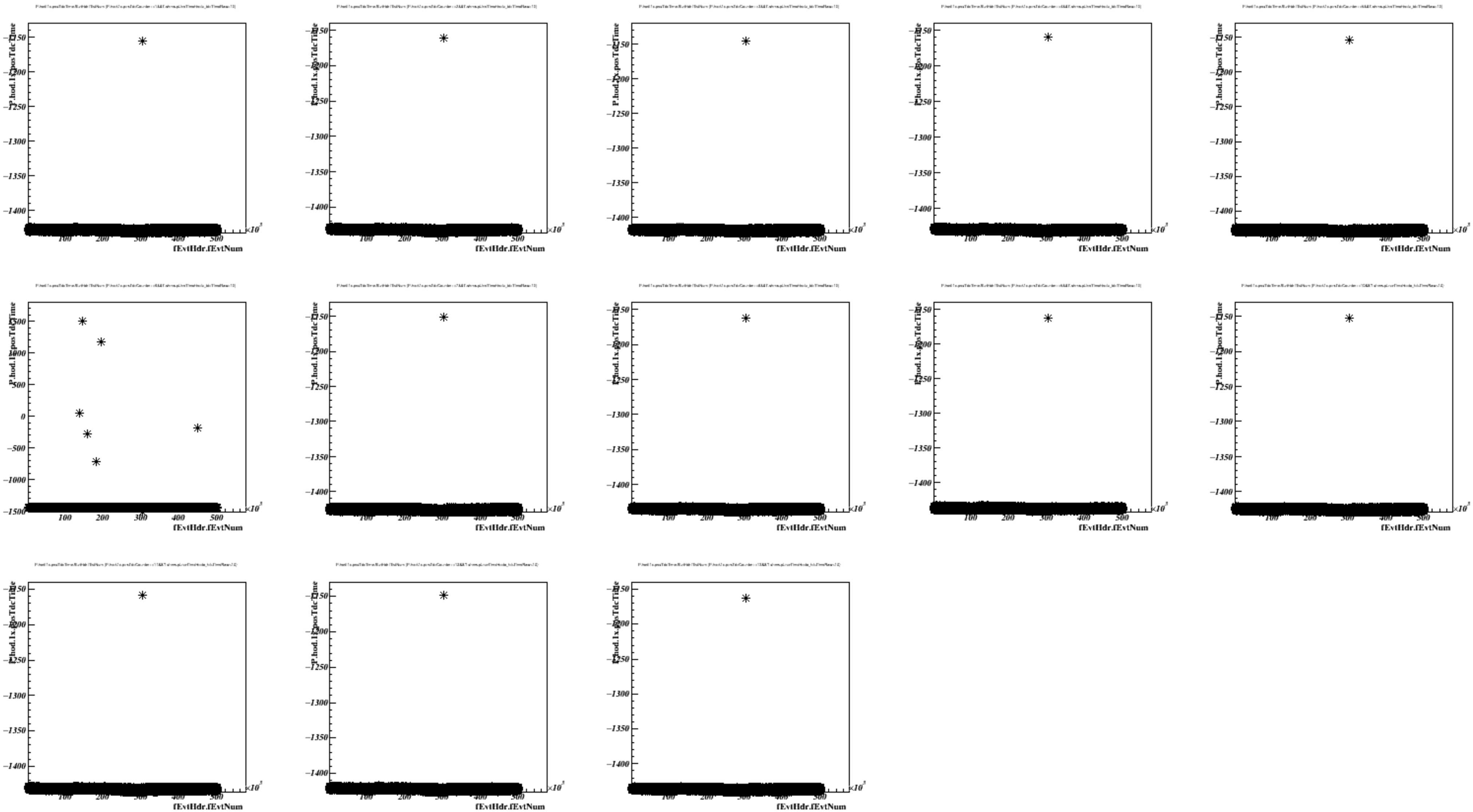
DAQ Test

- A function generator is used to generate a pulse
- Two runs. 100 Hz and 200 Hz.
- Function generator → Discriminator → Fan In/Out → Hodoscope planes (Test input).
- Function generator → Discriminator → Fan In/Out → Level Translator → TDC
- Hodoscope TDC vs. event number
- Ratio of TDC counts and scaler counts
- Then added a random pulse generator.
- Random pulse generator: 100 Hz to 354 kHz

100 Hz Pulse. 1X Plane. Positive PMTs

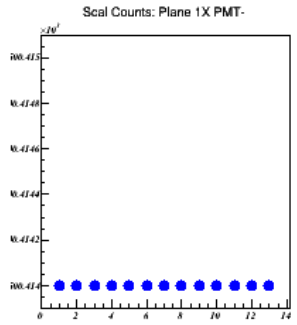


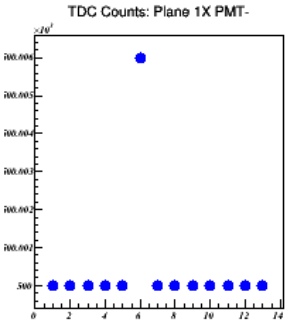
200 Hz Pulse. 1X Plane. Positive PMTs

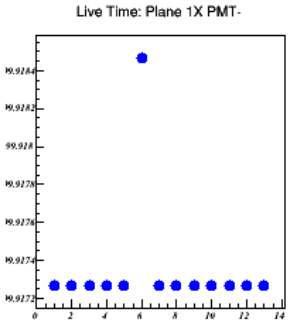


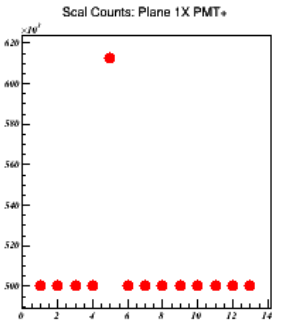
Run 200 Hz. Live Time

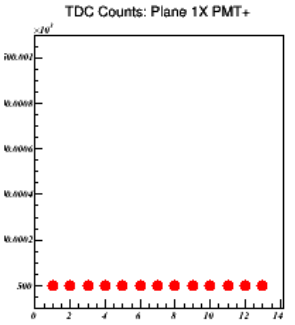
PMT	Scaler trigs	TDC Trigs	Ratio
PSshod1x6M	500414	500006	99.9185
PSshod1x5P	612759	500000	81.5981

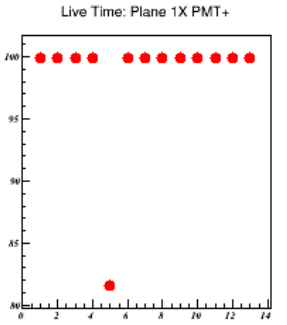


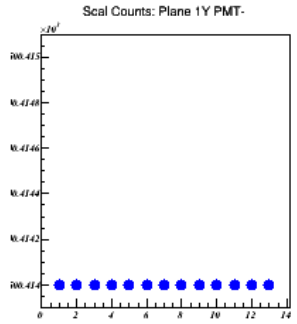


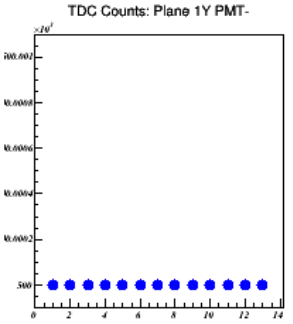


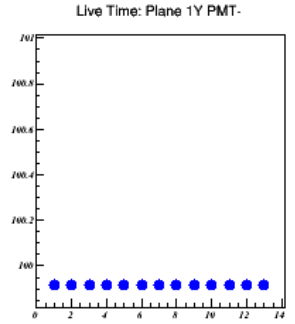


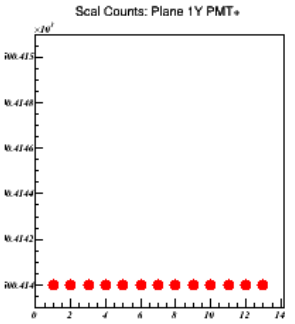


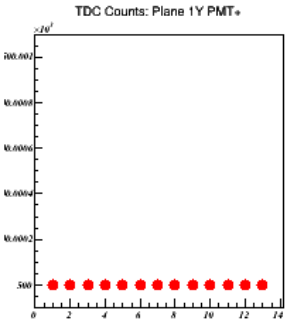


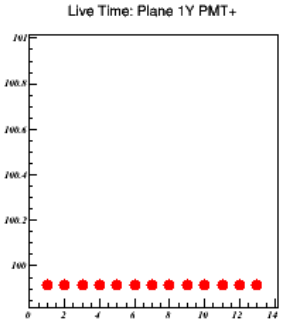


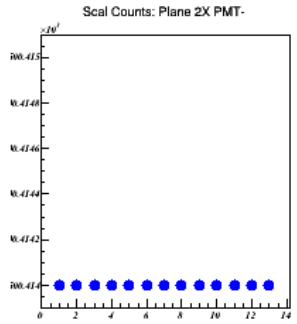


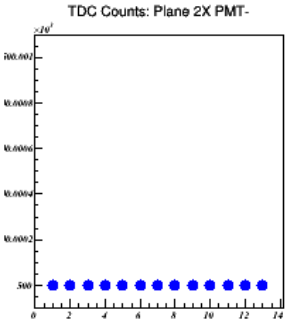


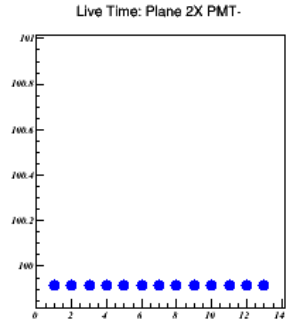


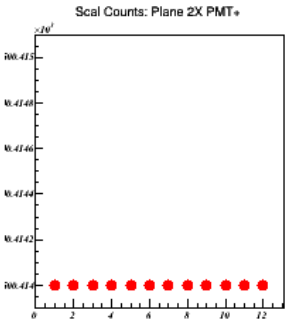


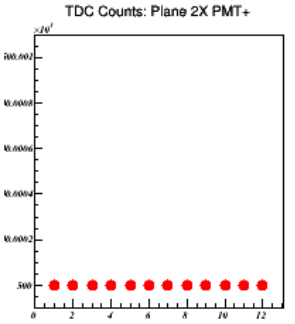


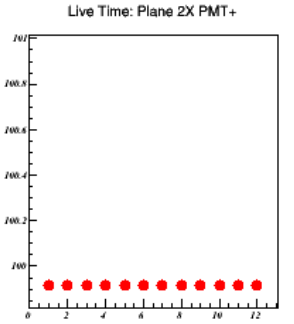




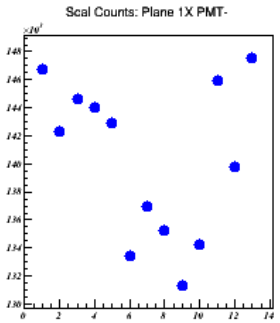


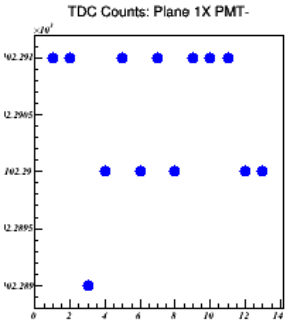


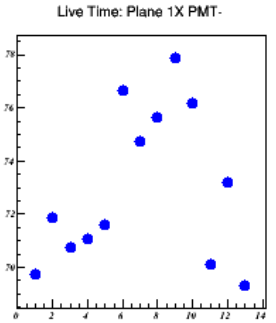


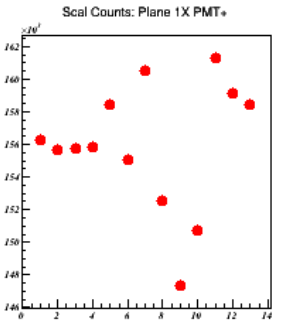


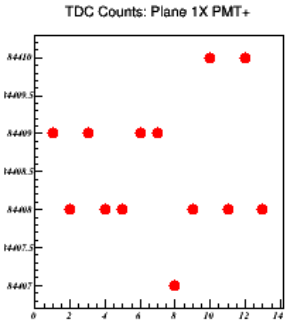
Signal Pulse 100 Hz. Random Pulse (Run 937) 165 to 175 Hz

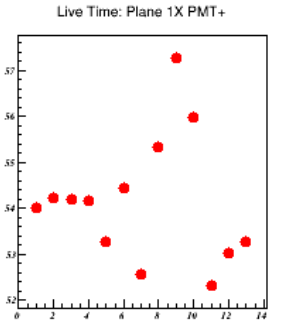


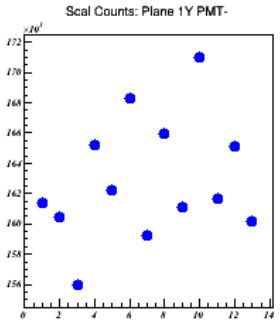


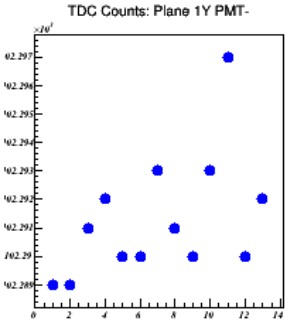


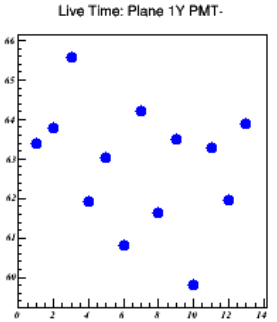


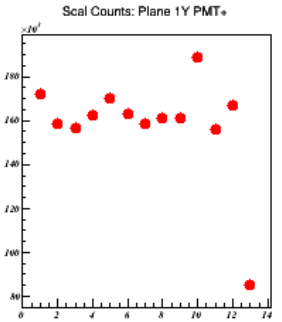


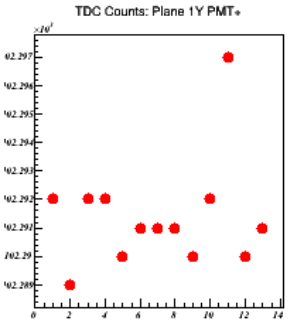


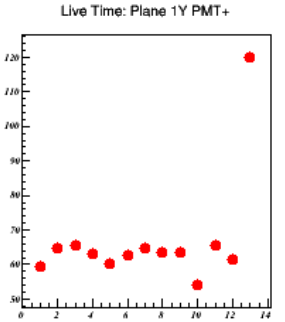


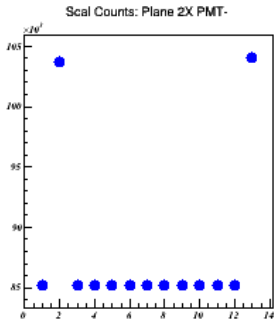


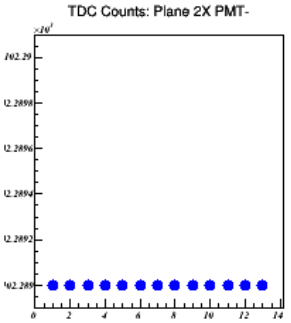


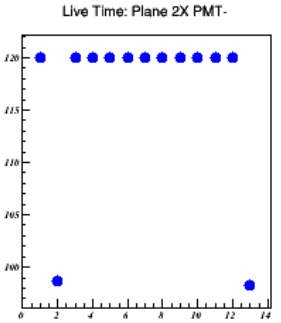


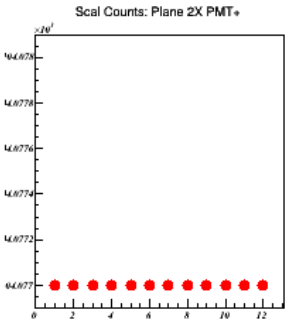


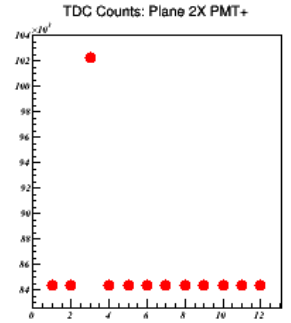


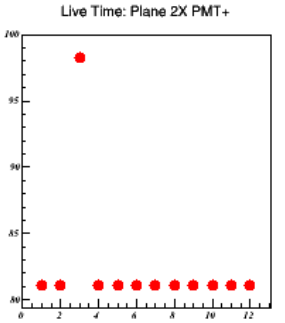




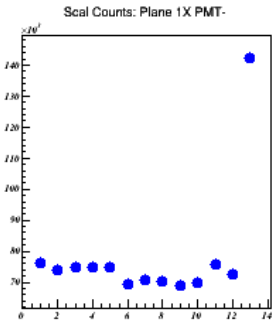


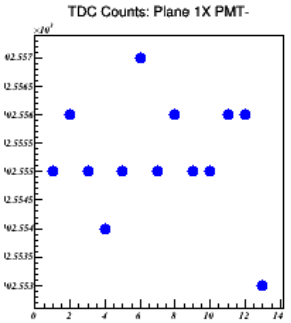


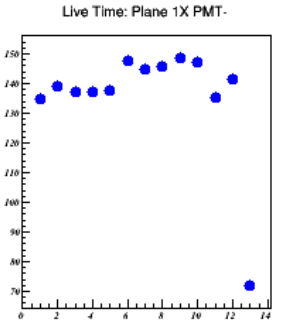


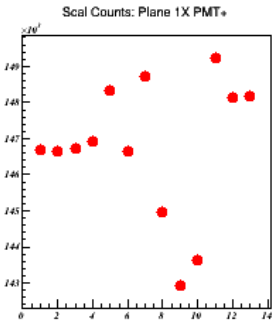


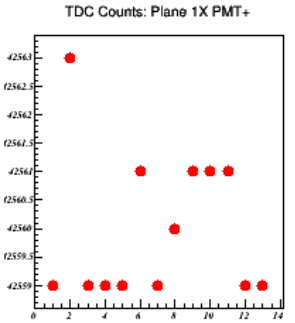
Signal Pulse 100 Hz. Random Pulse (Run 938) ~ 350 Hz

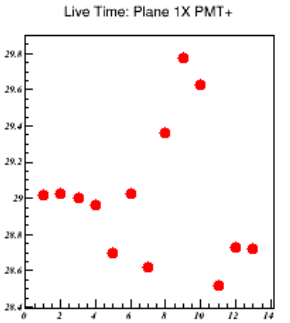


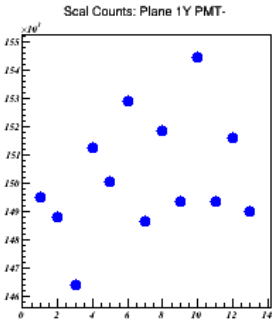


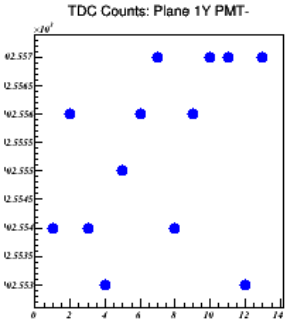


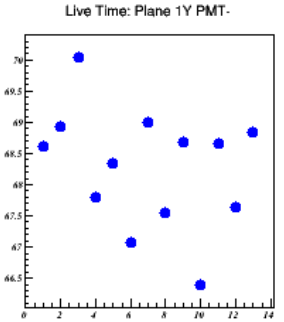


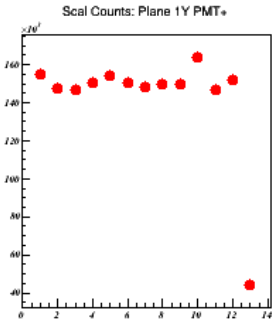


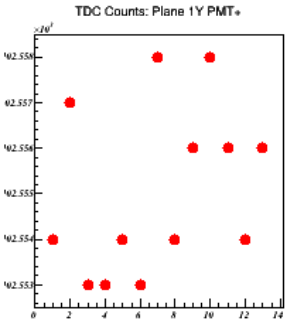


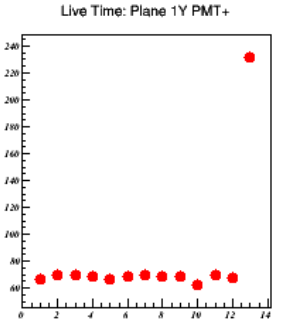


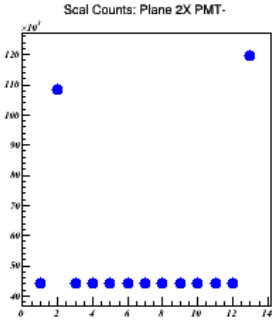


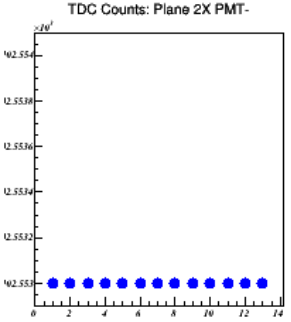


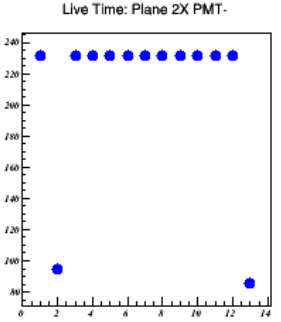


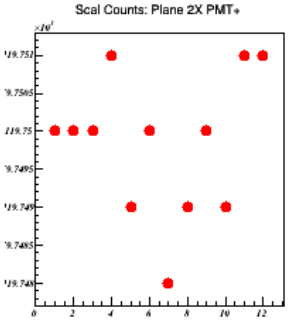


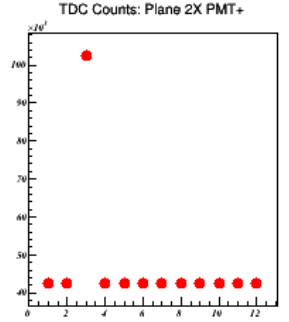


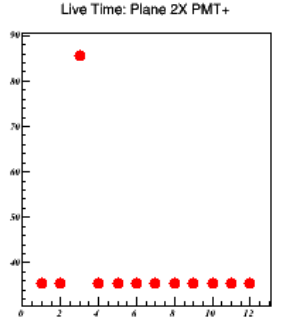




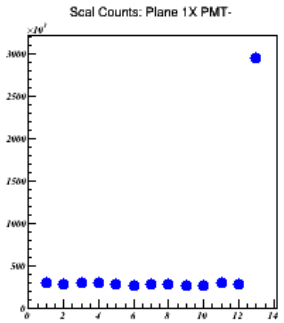


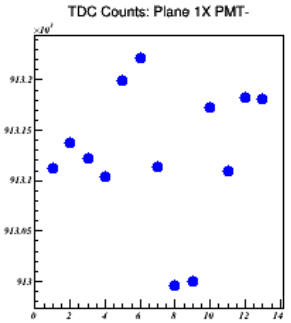


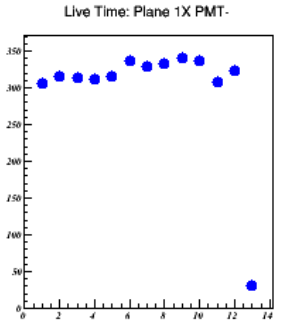


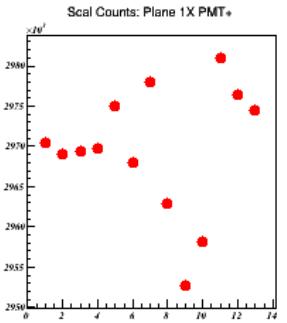


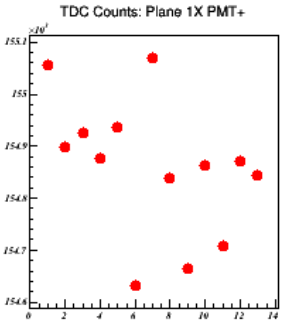
Signal Pulse 100 Hz. Random Pulse (Run 939) ~ 1800 Hz

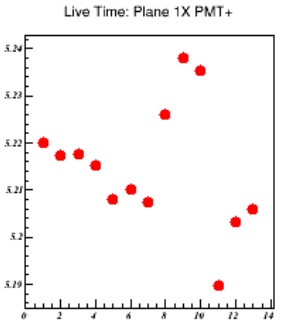


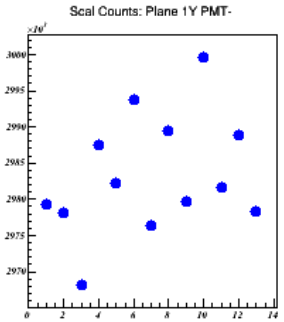


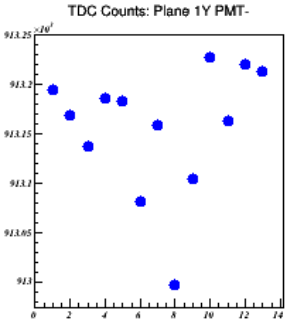


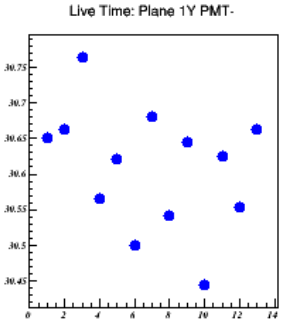


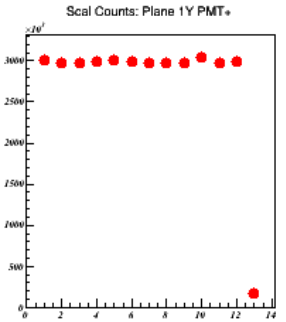


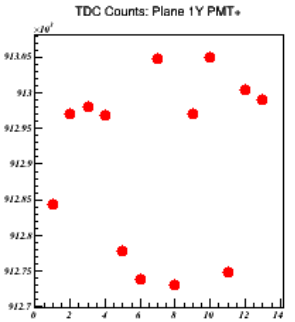


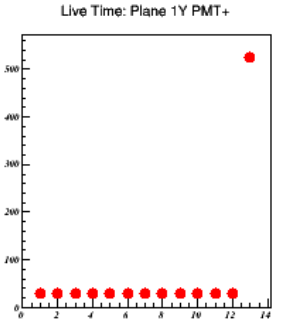


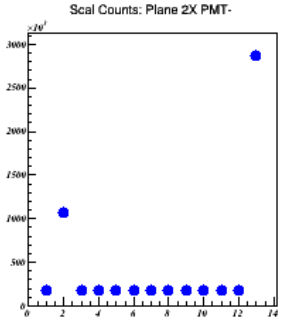


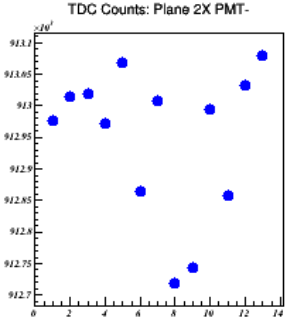


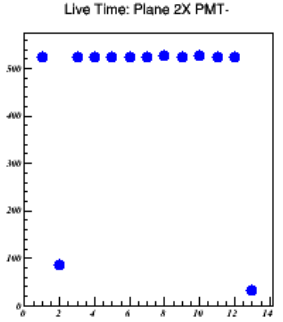


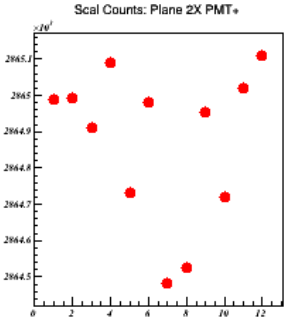


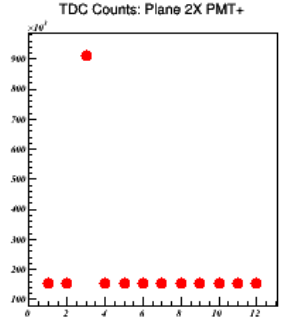


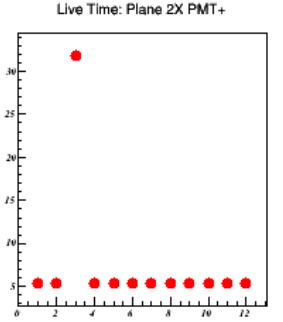




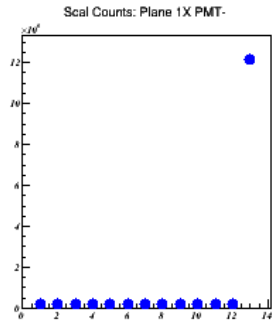


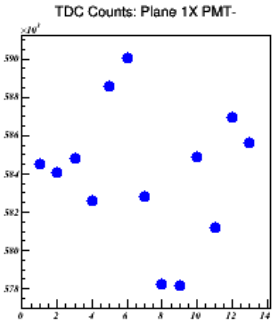


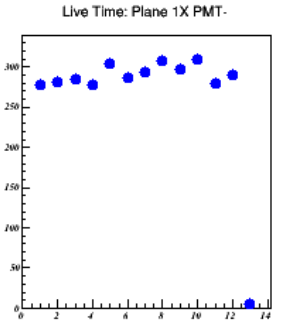


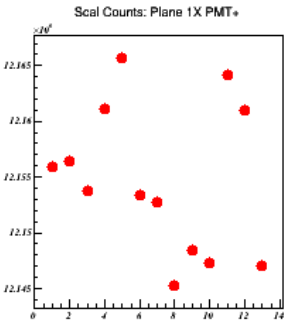


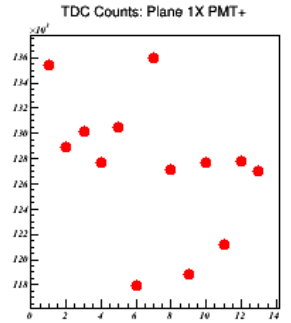
Signal Pulse 100 Hz. Random Pulse (Run 940) 15 kHz

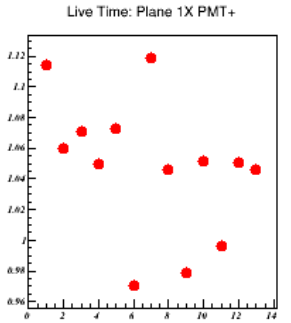


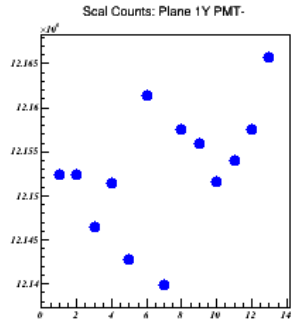


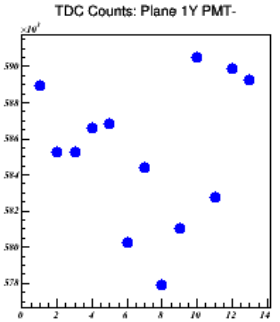


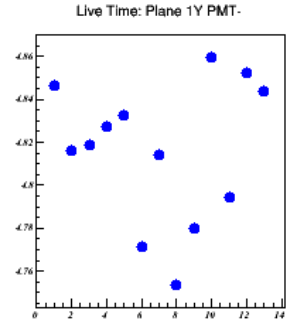


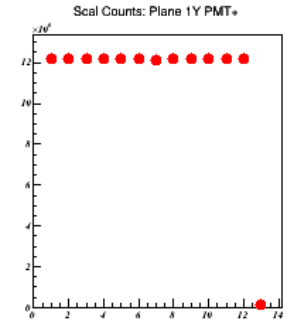


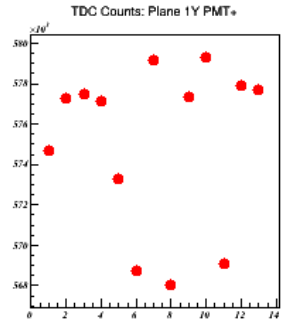


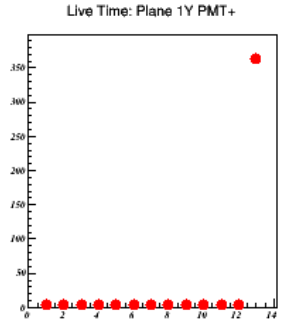


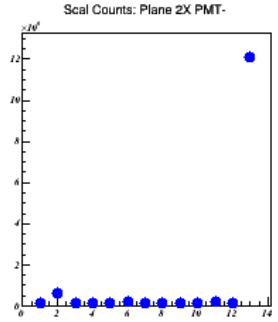


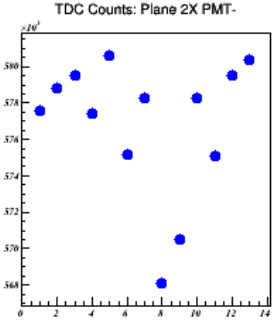


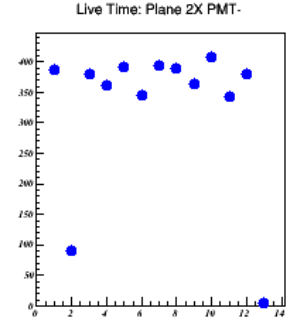


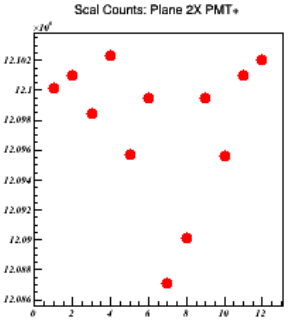


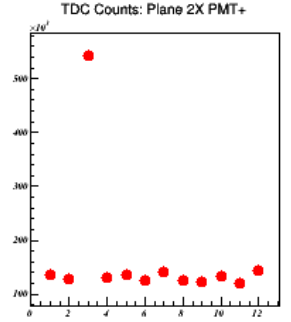


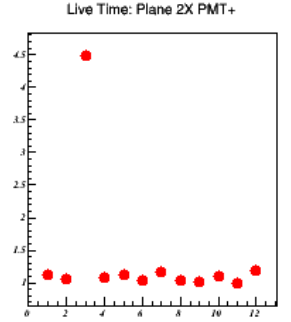




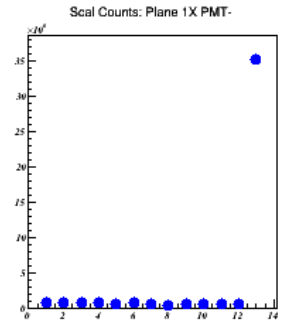


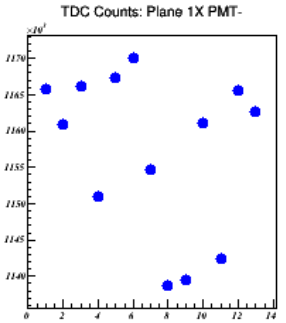


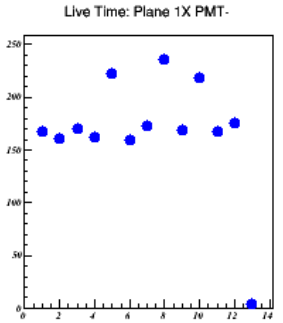


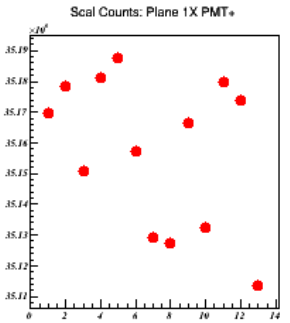


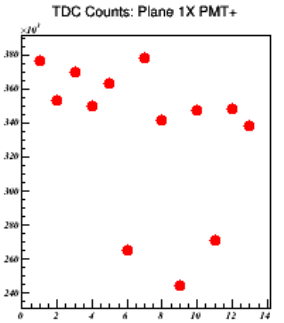
Signal Pulse 100 Hz. Random Pulse (Run 941) 109 kHz

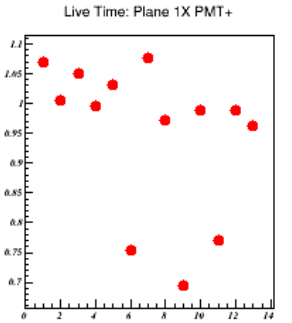


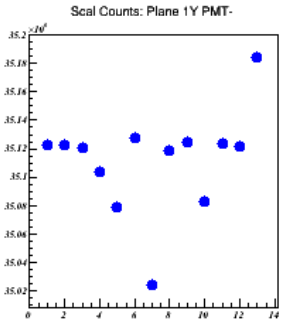


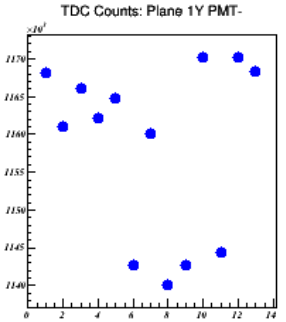


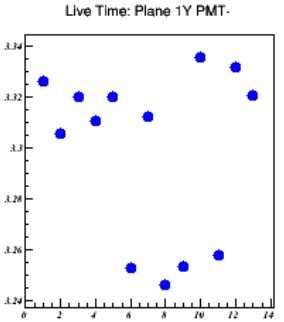


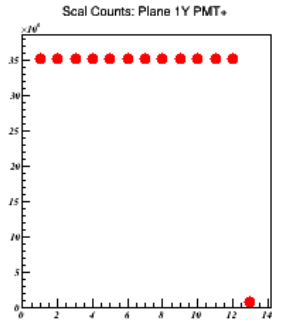


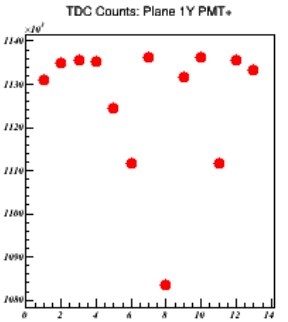


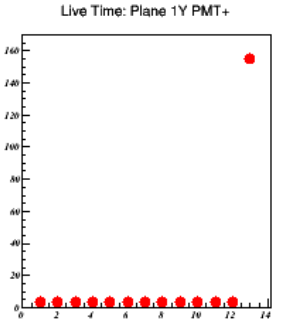


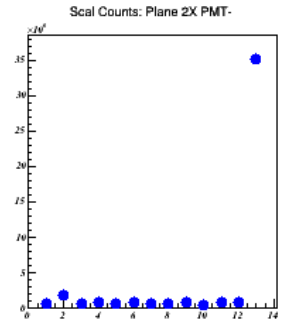


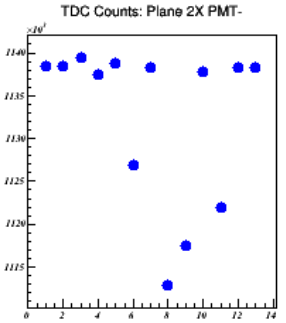


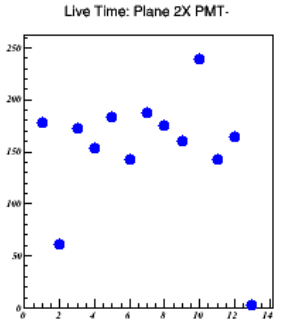


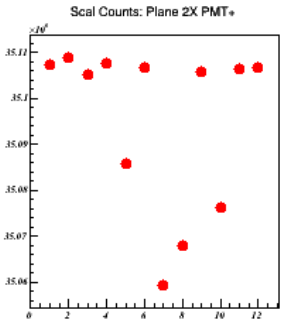


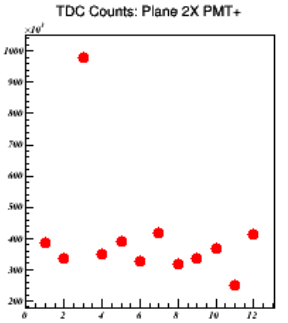


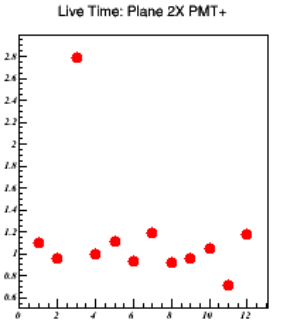












Signal Pulse 100 Hz. Random Pulse (Run 942) 354 kHz