

HMS Ref. Time vs. Raw TDC Correlation

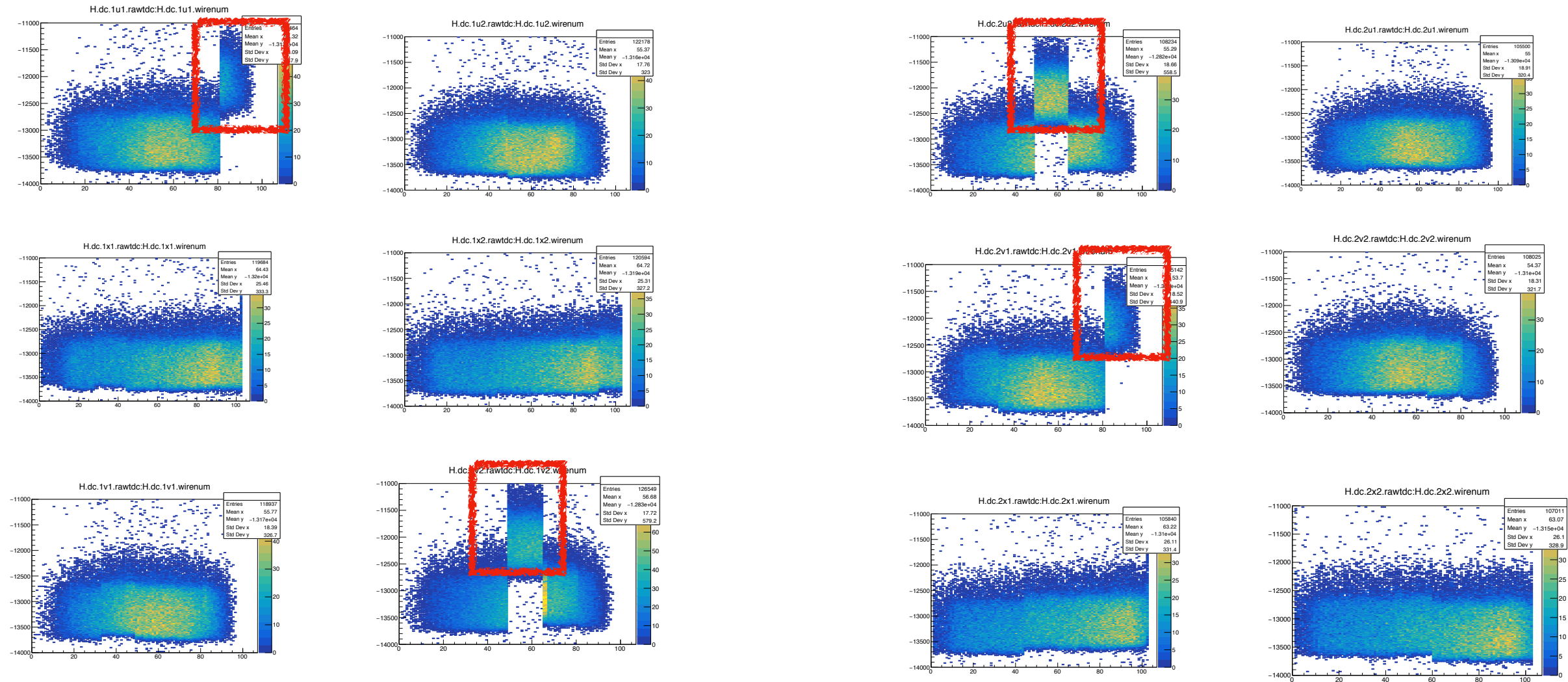
Carlos Yero
July 5, 2018

1 PASS (2.2 GeV Beam): HMS RUN 1267

Raw TDC vs. WireNumber

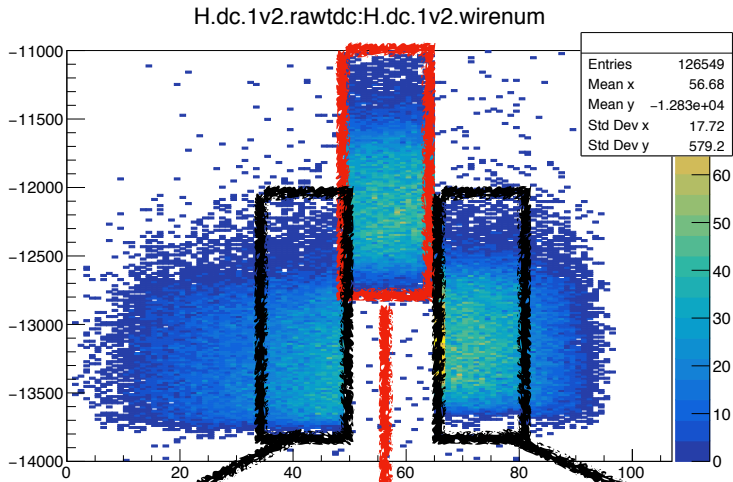
DC1

DC2



The **boxed** regions represent the groups of wires that are fed into TDC Slot 2 in the HMS DC Crate.

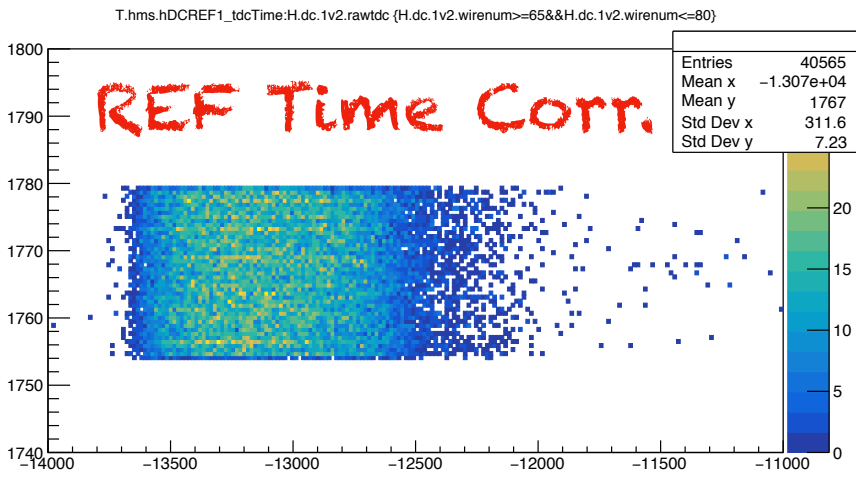
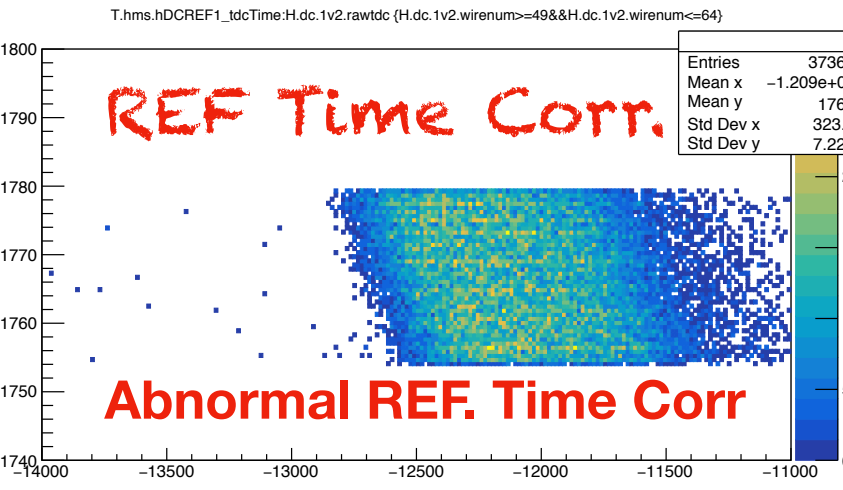
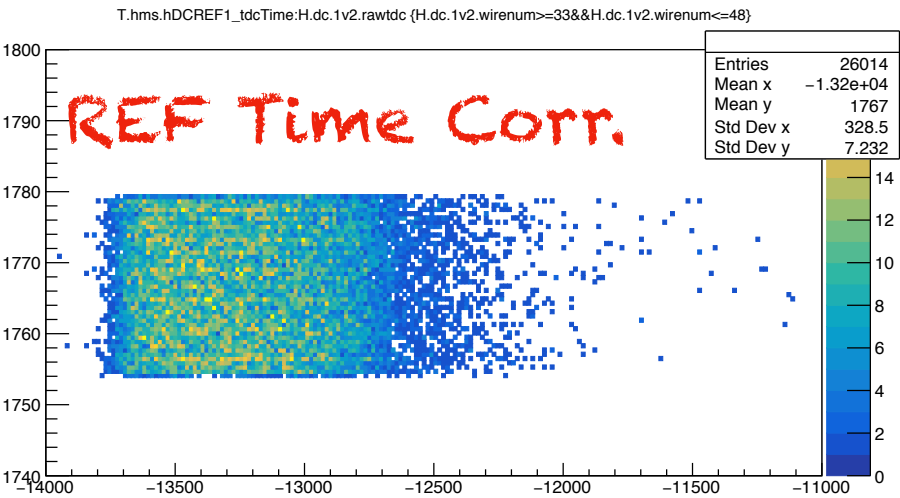
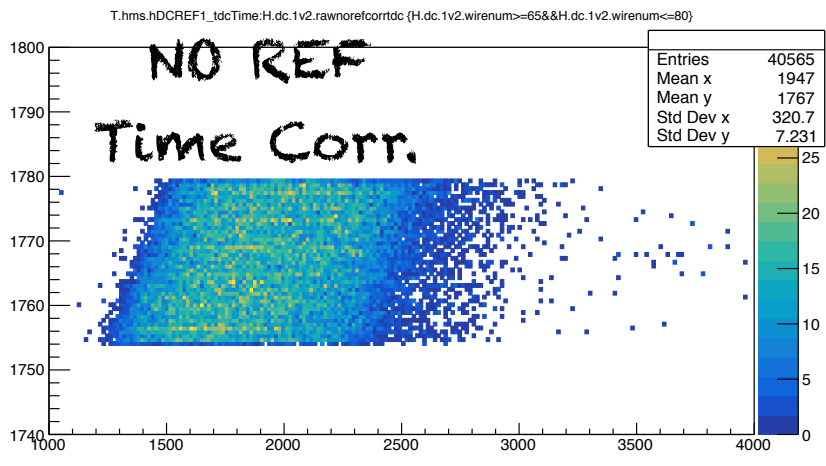
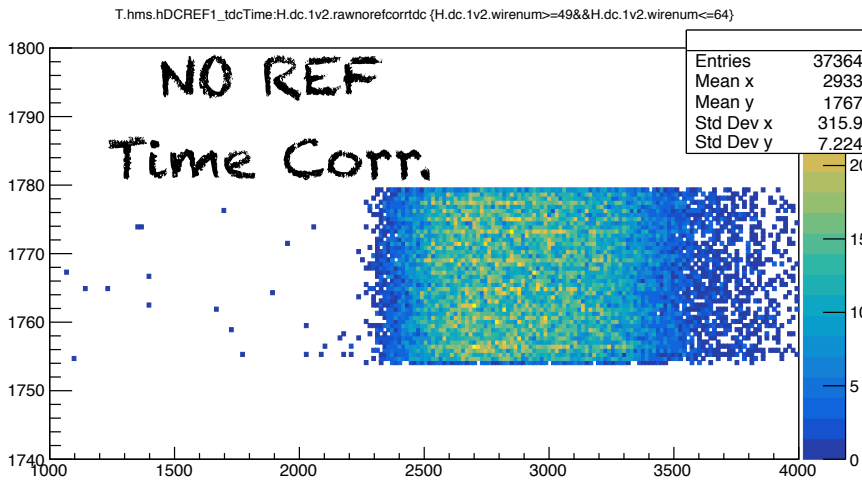
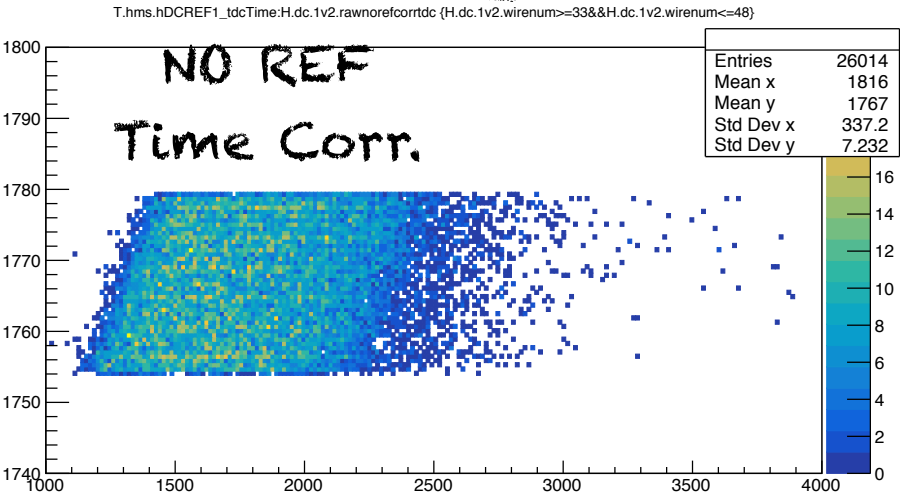
1 PASS (2.2 GeV Beam):
HMS RUN 1267



TOP 3 PLOTS:
hDCREF1 tdcTime v.
1v2 noREFtimeCorr. tdcTime

BOTTOM 3 PLOTS:
hDCREF1 tdcTime v.
1v2 tdcTime

TDC SLOT2



**In the previous slide, is just one example of the reference time subtracted tdcTime
In TDC SLOT2 as compared to other TDC slots in which the adjacent
Group of wires were in.**

**There is a problem with how this TDC SLOT2 processed the injected reference time.
It is as if its reference time was out of SYNC, and the subtraction was NOT done
properly.**

**A similar behavior was observed in the other groups highlighted in RED in SLIDE 2.
This is observed also in other runs.**