

Time of Flight for Normal Analysis

DAQ 6674 Stacked Geometry

Trigger Coincidence = 3

Gate 300ns; Pipeline 100ns

File Range

Position Channel 1	0.025 m	6674.2019.0919.1 > 0924.0
Position Channel 2	0.055 m	
Position Channel 3	1.734 m	
Position Channel 4	2.394 m	
Position Channel 1	0.025 m	6674.2019.0924.1 > 0926.0
Position Channel 2	0.340 m	6674.2019.1003.1 > 1010.0
Position Channel 3	1.734 m	
Position Channel 4	2.394 m	
Position Channel 1	2.394 m	6674.2019.1022.1 > 1112.0
Position Channel 2	1.734 m	6674.20219.1112.2 > 1211.0
Position Channel 3	0.340 m	
Position Channel 4	0.025 m	
Position Channel 1	0.12 m	6674.2020.0106.1
Position Channel 2	0.08 m	
Position Channel 3	0.03 m	
Position Channel 4	0.00 m	
Position Channel 1	0.00 m	6674.2020.0106.2
Position Channel 2	0.03 m	
Position Channel 3	0.075 m	
Position Channel 4	0.11 m	

After installing new signal cables and new positions for counters, this is a new set of runs appropriate for speed measurements.

DAQ 6674 Stacked Geometry

Trigger Coincidence = 3

Gate 400ns; Pipeline 200ns

File Range

Position Channel 1	2.240 m	6674.2021.0817.0 > 0824.0
Position Channel 2	1.655 m	6674.2021.0825.0 > 0906.0
Position Channel 3	0.464 m	
Position Channel 4	0.120 m	

Trigger Coincidence = 2

Position Channel 1	2.240 m
Position Channel 2	1.655 m
Position Channel 3	0.464 m
Position Channel 4	0.120 m

Position Channel 1	0.120 m
Position Channel 2	0.464 m
Position Channel 3	1.655 m
Position Channel 4	2.240 m

Position Channel 1	2.283 m
Position Channel 2	0.464 m
Position Channel 3	1.655 m
Position Channel 4	2.240 m

Position Channel 1	2.248 m
Position Channel 2	1.665 m
Position Channel 3	0.475 m
Position Channel 4	0.130 m

Normal channel order

6674.2021.0912.0 > 1004.1
low voltages were tweaked on
16sept. Running more stable
after that time.

Flipped channel order

6674.2021.1010.0 > 1210.0

If you want to see affect of unstable operation
Ch1 and ch4 gain drifting
6674.2021.1004.2 > 1010.0

special calibration run

6674.2021.1210.1

Note T0 calibration of channels
1 and 4 (ch1 moved!)

Normal channel order

6674.2021.1210.2 > 1224.0