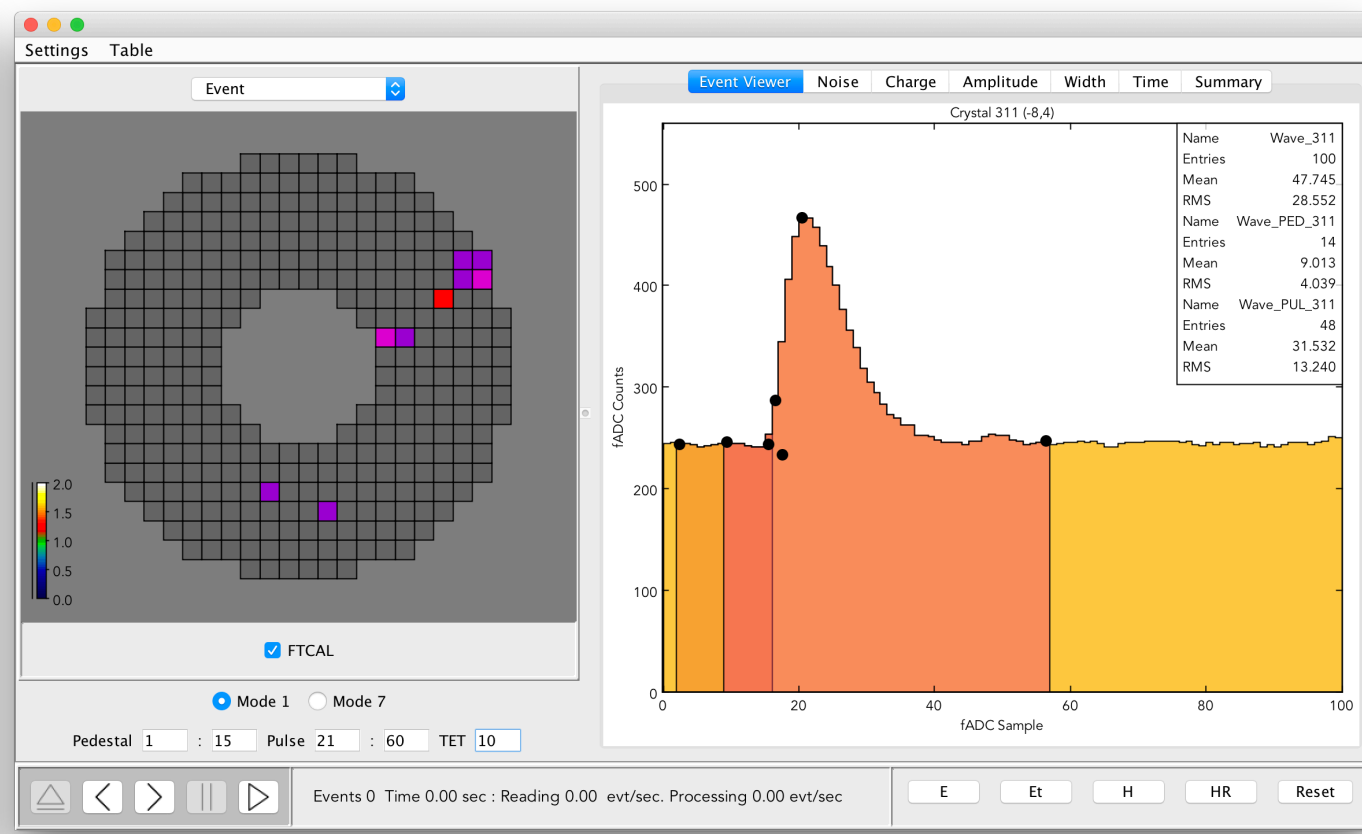
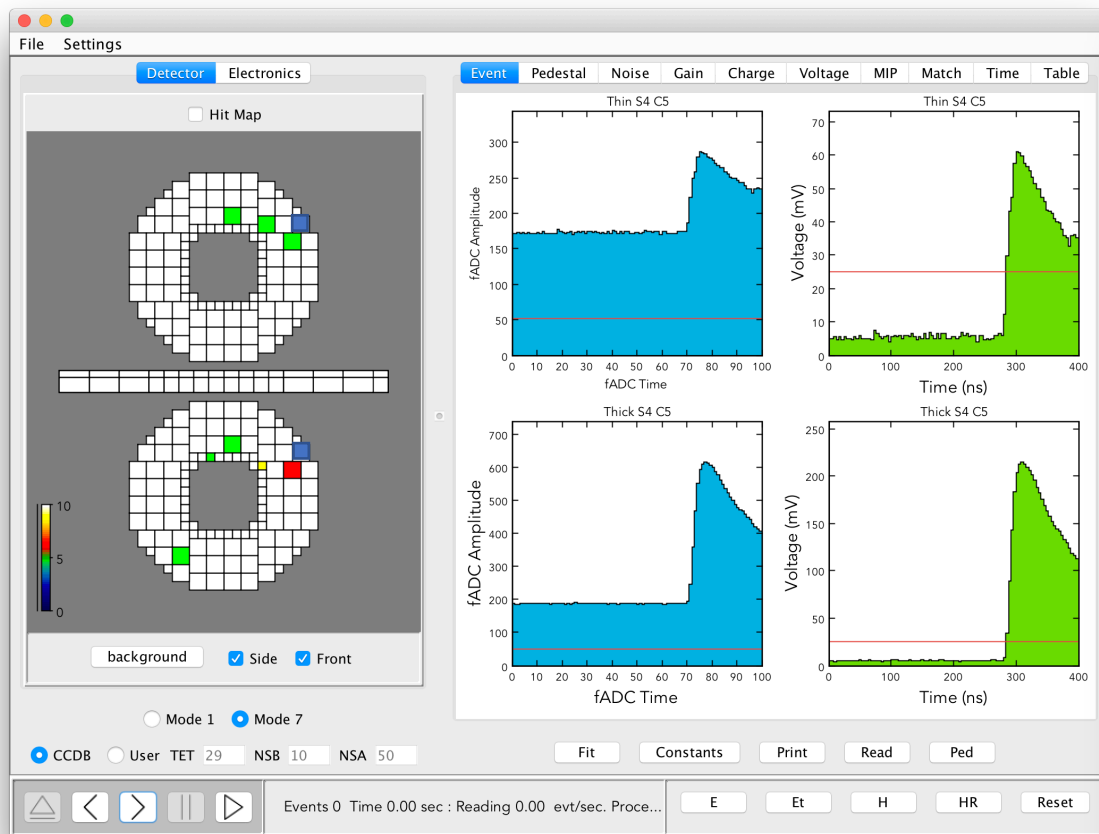


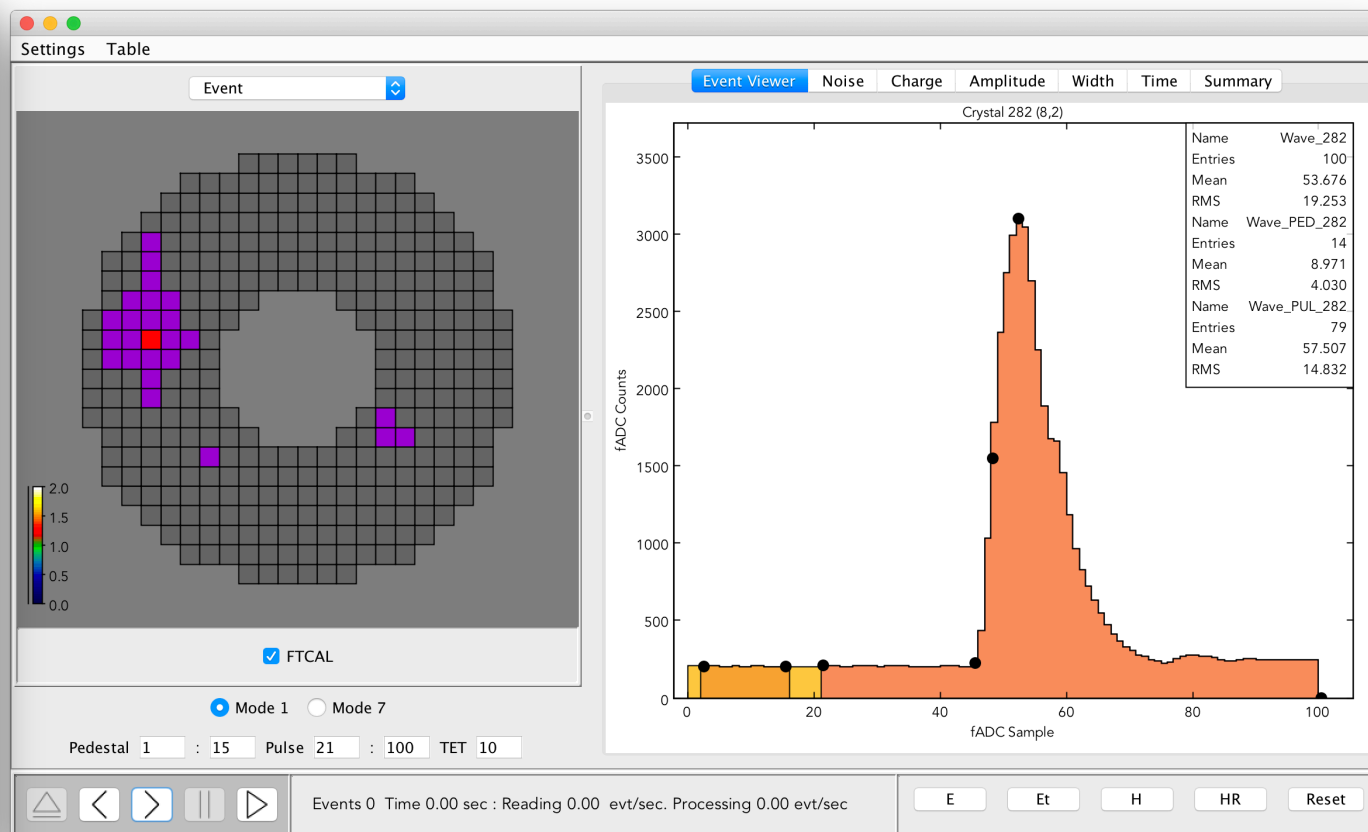
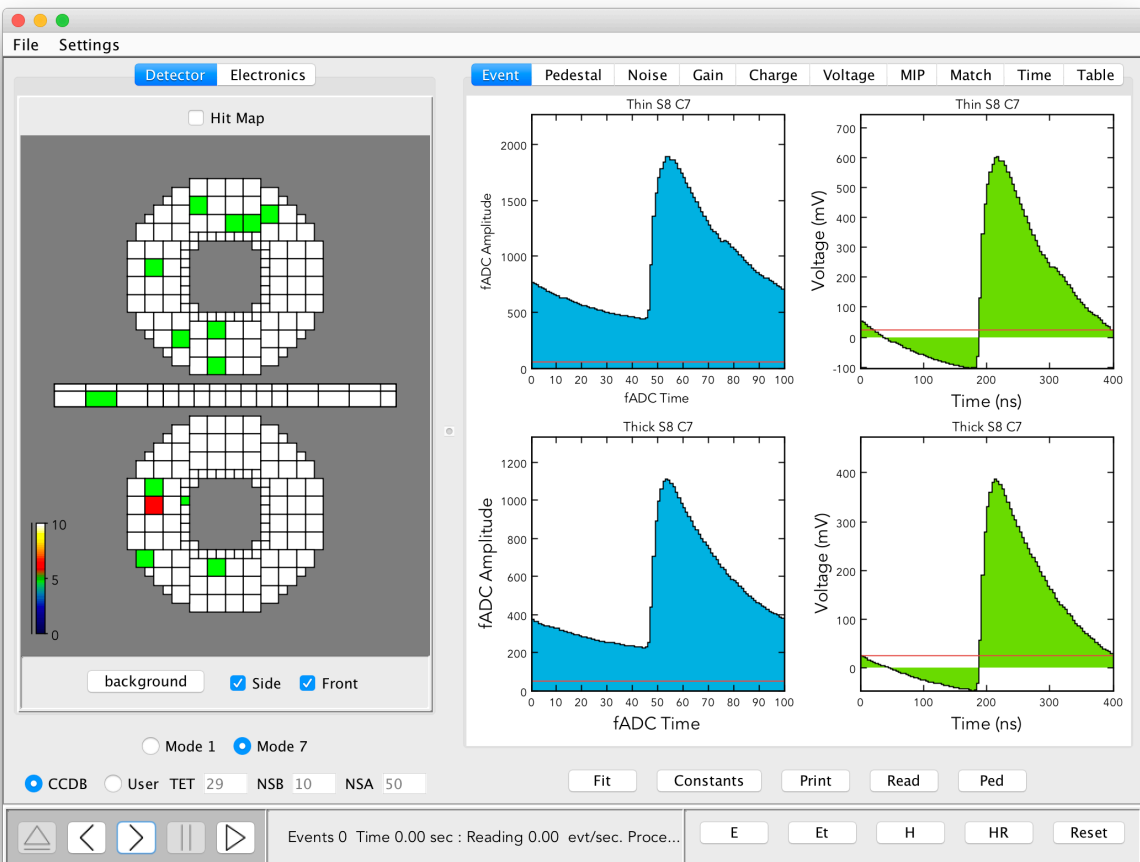
Event 772

- FT event builder matches top-right cluster with selected hodoscope hits
- VTP sees cluster at X=3, Y=17 NOT matched
 - Simulation confirms
- 4 crystals involved: (3,16) – (3,17) – (2,16) – (2,17)
 - In VTP, all matched to S17 C2 (L1) and S17 C11 (L2). These two channels don't have any Hodo hit



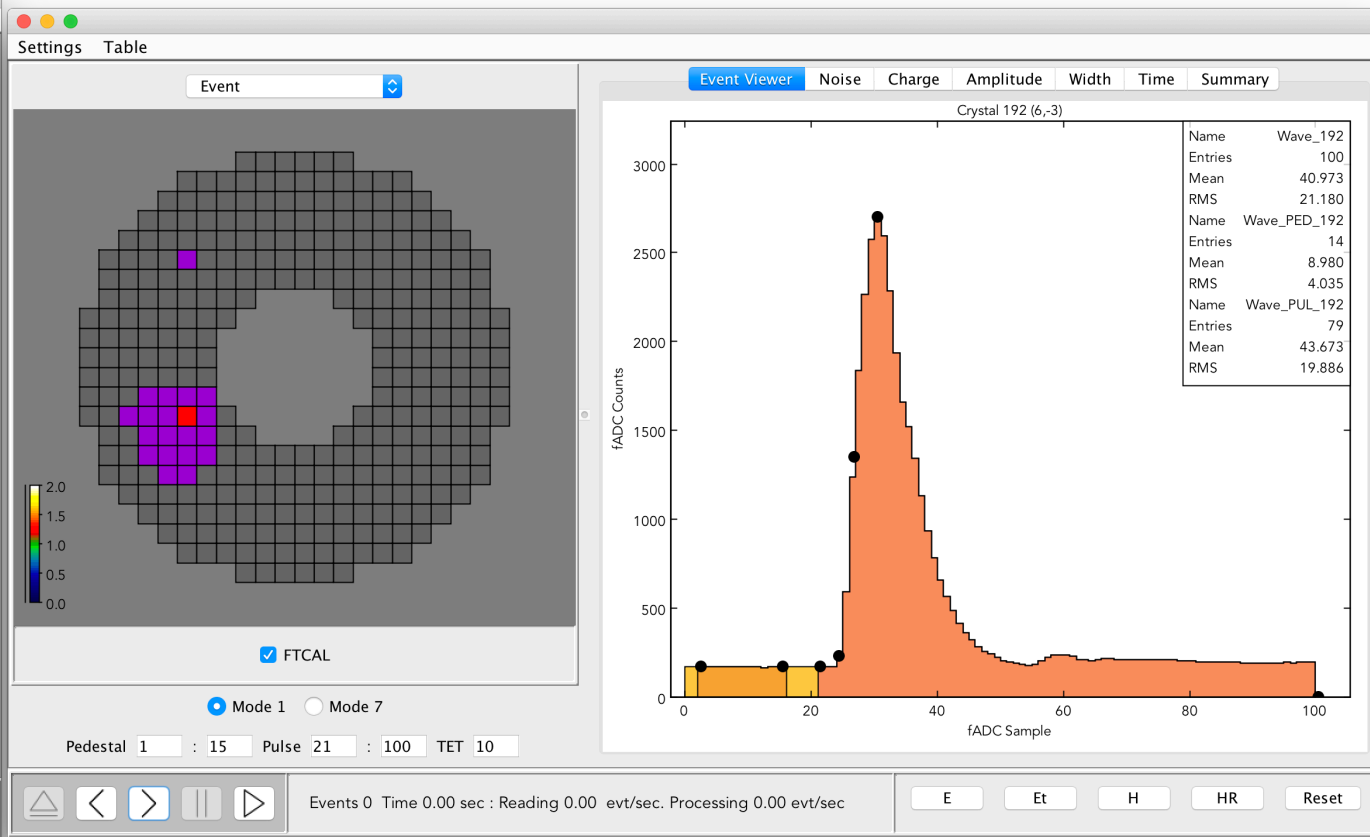
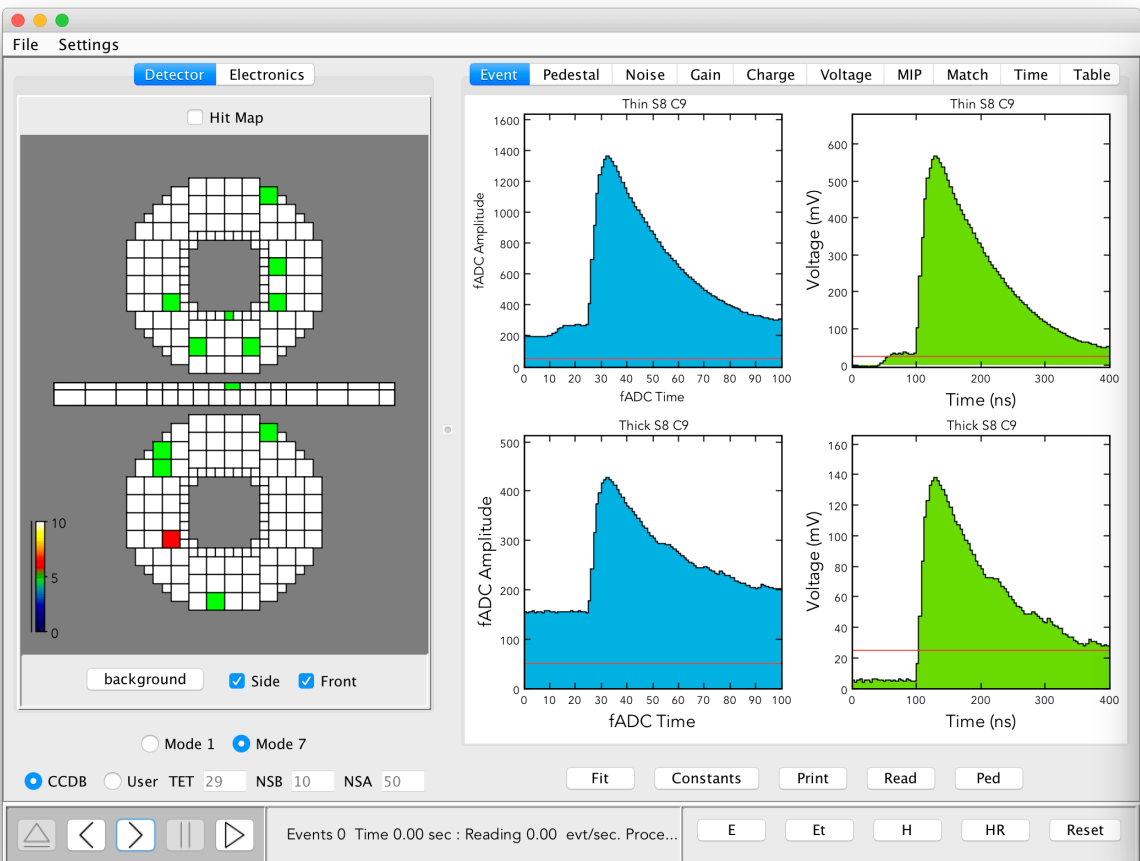
Event 1355

- FT event builder matches center-left cluster (19,13) with selected hodoscope hits
- VTP sees cluster at X=19, Y=13 matched to L2 only
 - Simulation confirms
- There is a good hodo hit in geometric matching: S4 C2 (L1) and S4 C11 (L2)
 - S4 C11: $\text{ped}=192.202 / \text{TET} = 50 \rightarrow$ The waveform is always over thr, the transition is missing (i.e. VTP doesn't receive this hit)
 - S4 C2: $\text{ped}=369.22 / \text{TET} = 50$ OK



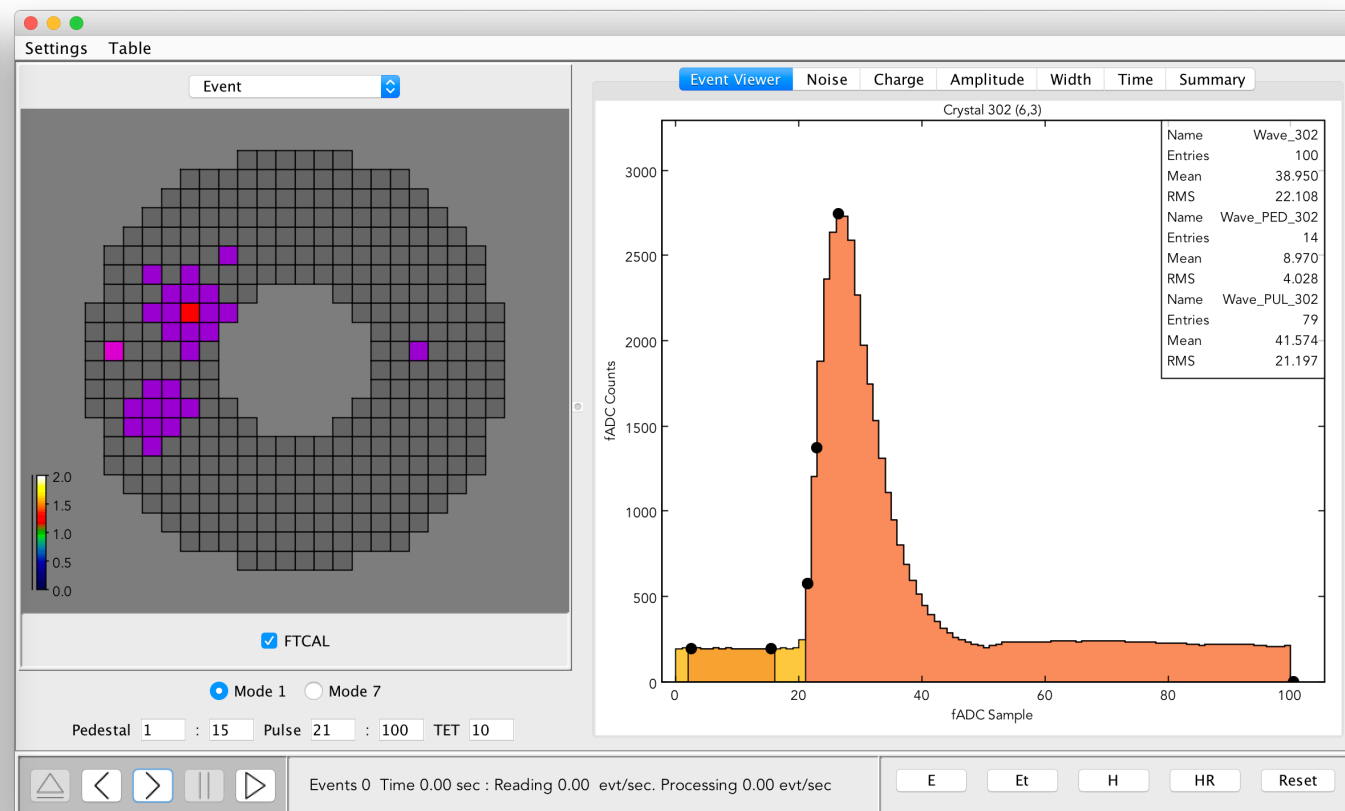
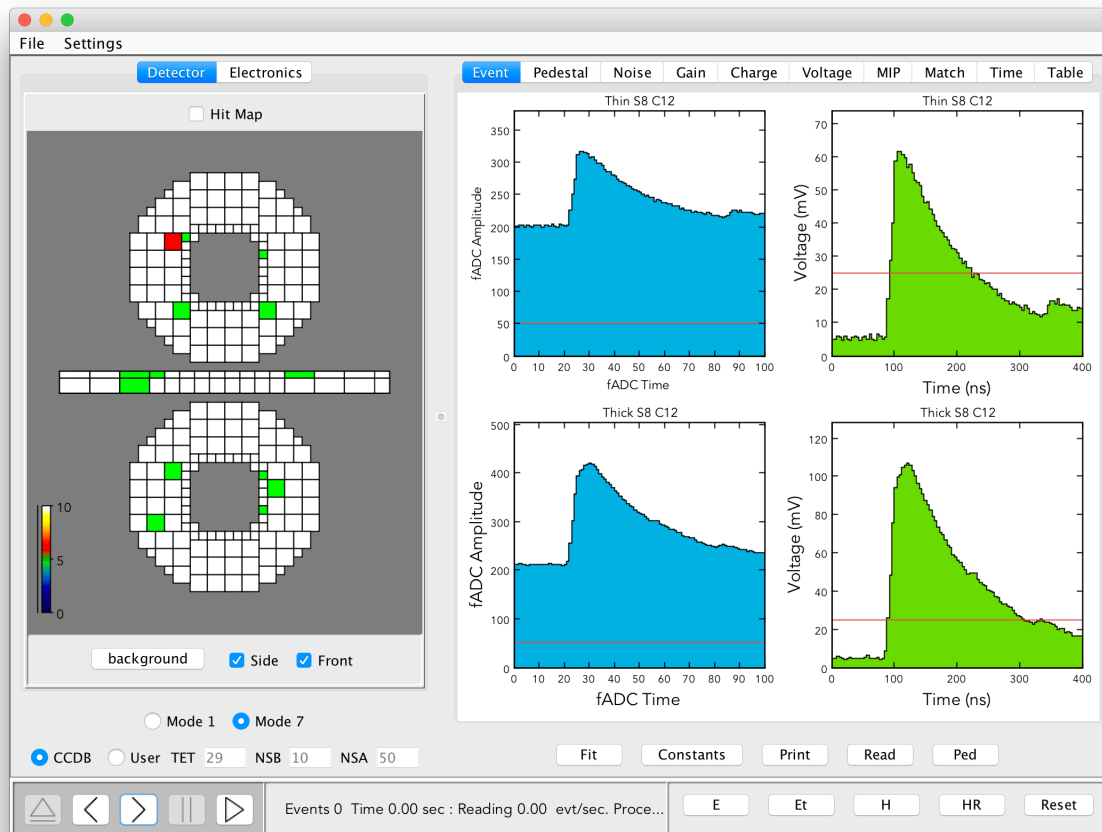
Event 3503

- FT event builder matches bottom-left cluster (17,9) with selected hodoscope hits
- VTP sees cluster at X=17, Y=9 matched to L2 only
 - Simulation confirms
- There is a good hodo hit in geometric matching: S6 C5 (L1) and S6 C12 (L2)
 - S6 C5: ped=201.432 / TET = 50 → Due to pile-up, threshold crossing is early in time (sample n.14). Out-of-time.
 - S6 C12: ped=169 / TET = 50 OK



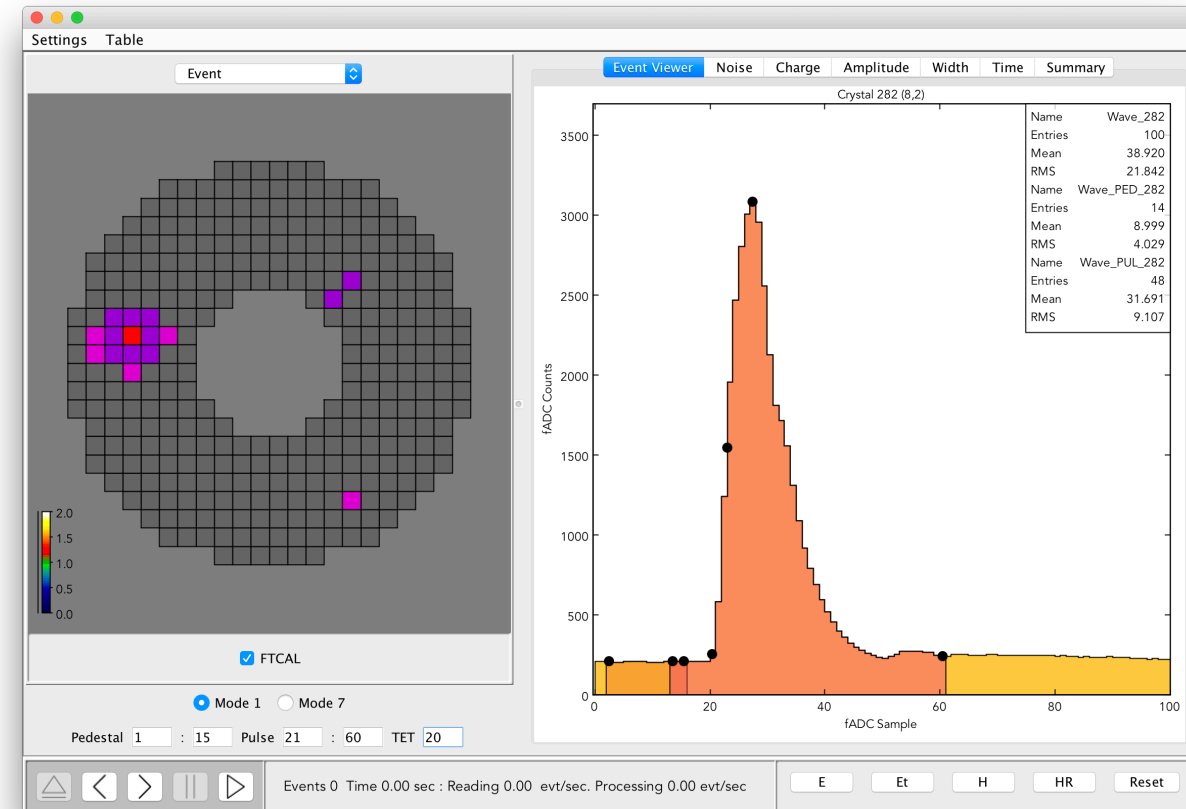
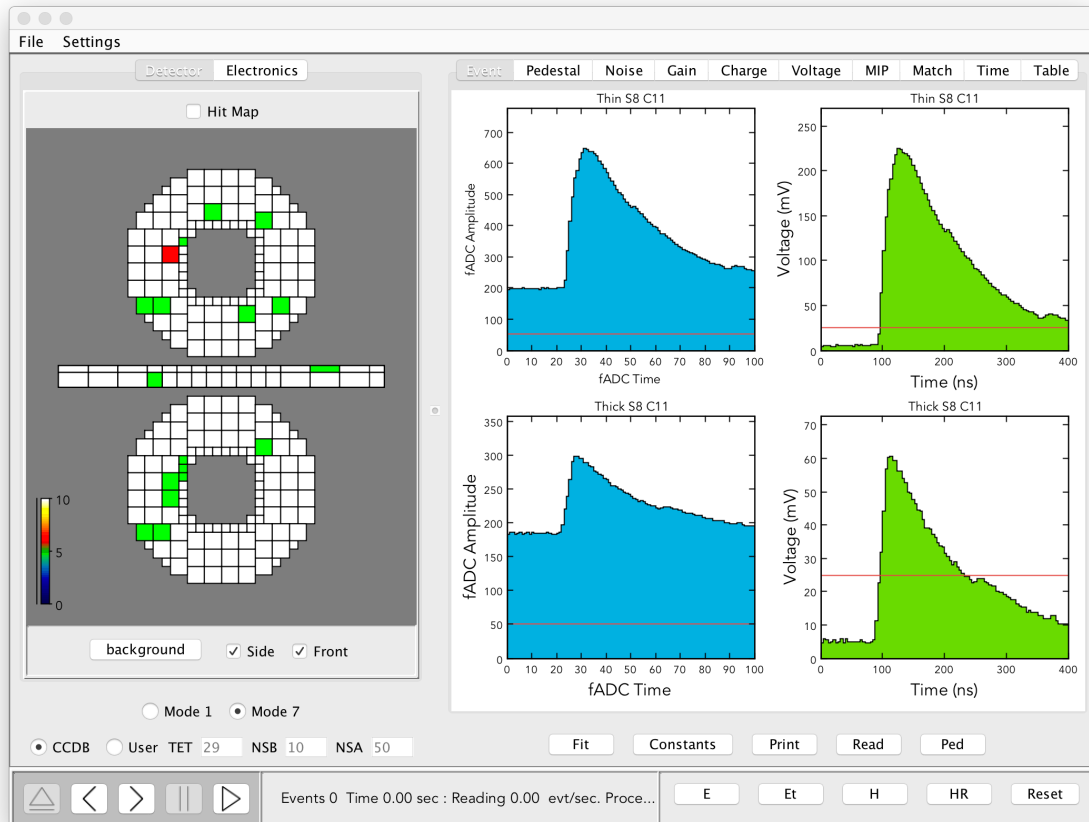
Event 5020

- FT event builder matches center-left cluster (17,14) with selected hodoscope hits
- VTP sees cluster at X=16, Y=13 matched to L2 only
 - Simulation confirms
- There is a good hodo hit in geometric matching: S7 C4 (L1) and S7 C11 (L2)
 - S7 C4: Pulse-integral=24 (After gain) -> Thr=25, Under threshold
 - S7 C11: OK



Event 8584

- FT event builder matches center-left cluster (19,13) with selected hodoscope hits
- VTP sees cluster at X=19, Y=13 matched to L1 only
 - Simulation confirms
- Again threshold effect on L2 – see below the pulse



Event 8954

- FT event builder matches bottom-left cluster (20,11) with selected hodoscope hits
- VTP sees cluster at X=20, Y=11 matched to L1 only
 - Simulation confirms
- There is a good hodo hit in geometric matching: S4 C3 (L1) and S4 C10 (L2)
 - S4 C3 (L1): OK
 - S4 C10 (L2): Due to pile-up, threshold crossing too early in time

