

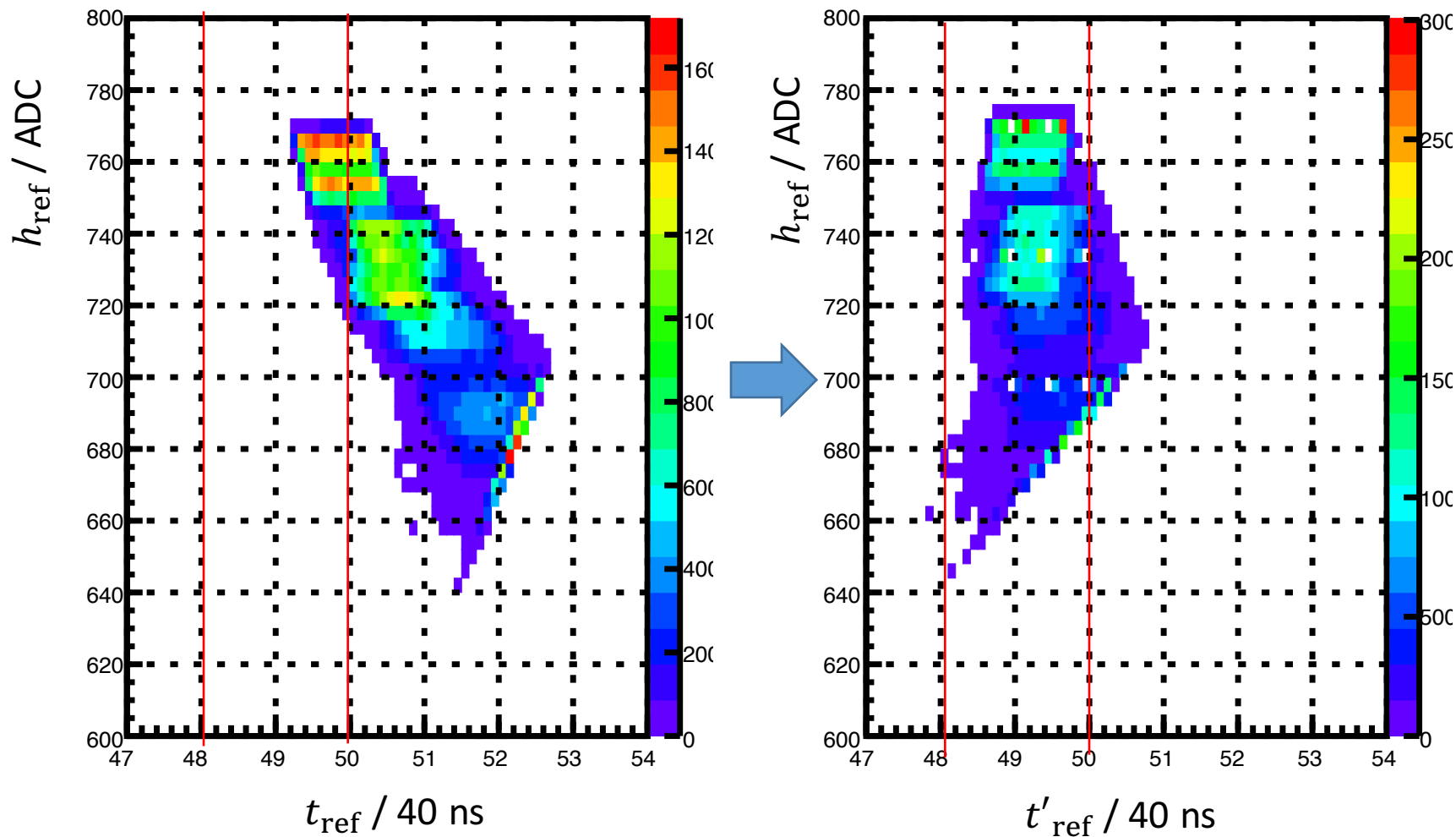
CsI(Tl) Waveform Analysis

Correction reference time

Hiroshi Ito
Chiba Univ.

VF48 Reference time height correction

Run 3059 Crate 2



Crate 1

Crate 2

Crate 3

run

Before

After

Before

After

Before

After

3059

ref time (tdc) - height (crate1)

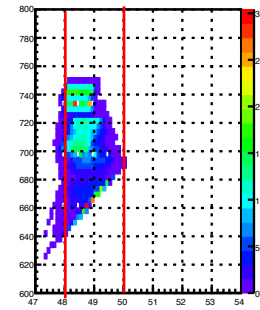
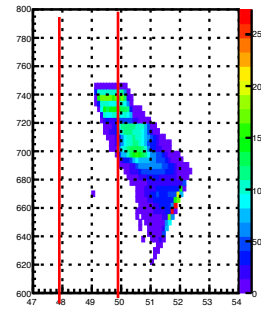
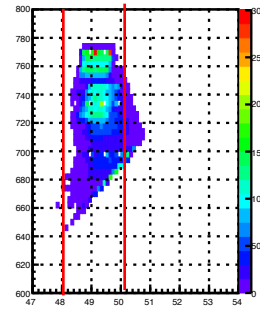
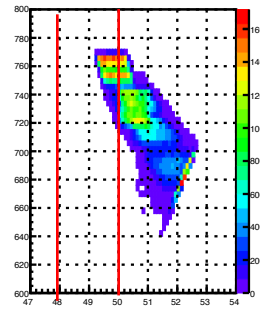
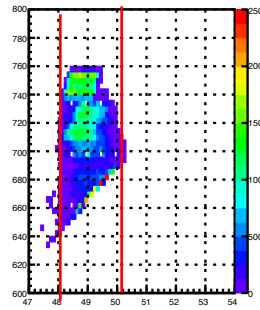
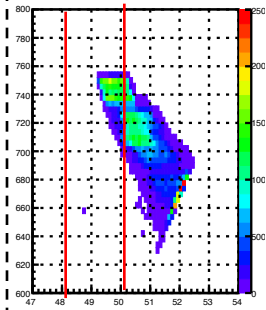
hist(3059)crate1

ref time (tdc) - height (crate2)

hist(3059)crate2

ref time (tdc) - height (crate3)

hist(3059)crate3



3060

ref time (tdc) - height (crate1)

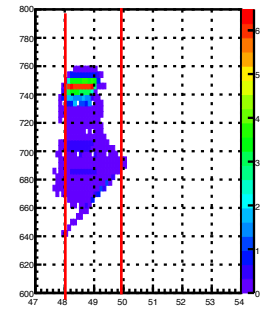
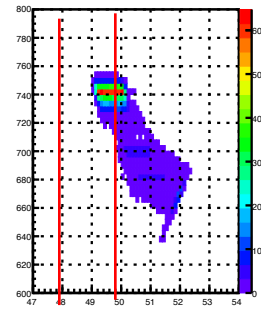
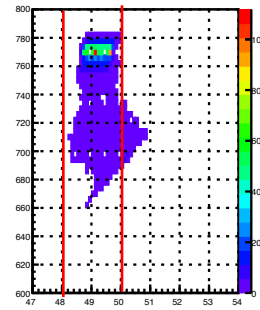
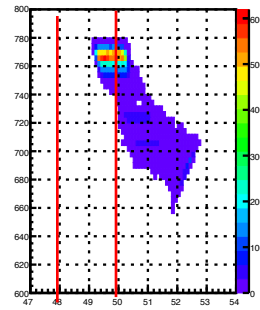
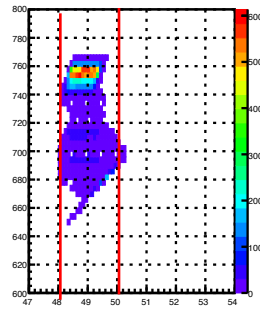
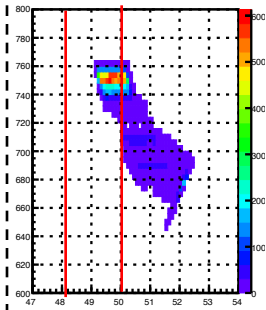
hist(3060)crate1

ref time (tdc) - height (crate2)

hist(3060)crate2

ref time (tdc) - height (crate3)

hist(3060)crate3



3061

ref time (tdc) - height (crate1)

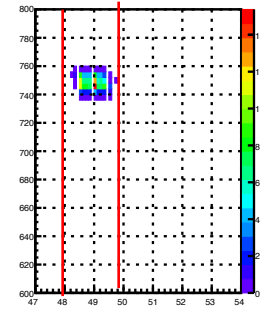
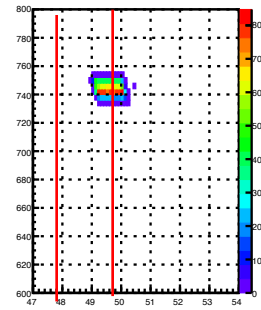
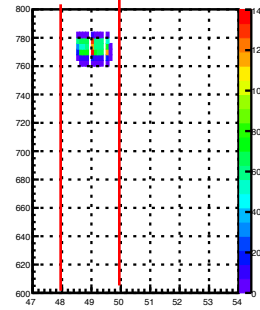
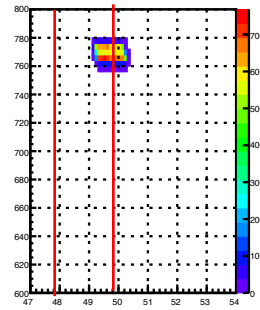
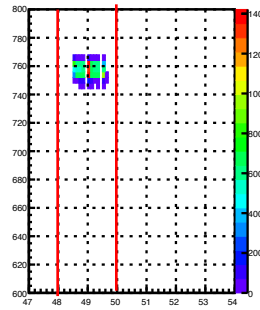
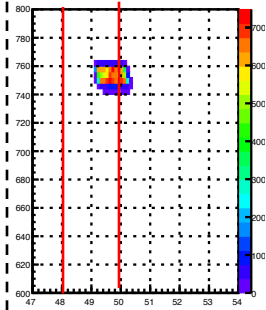
hist(3061)crate1

ref time (tdc) - height (crate2)

hist(3061)crate2

ref time (tdc) - height (crate3)

hist(3061)crate3



Crate 1

Crate 2

Crate 3

run

Before

After

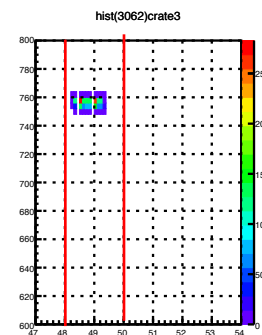
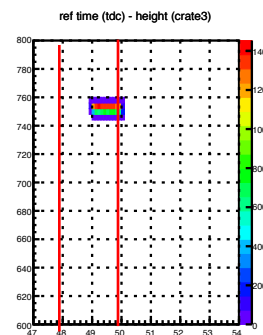
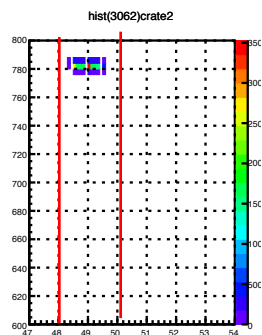
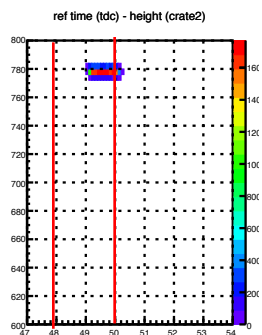
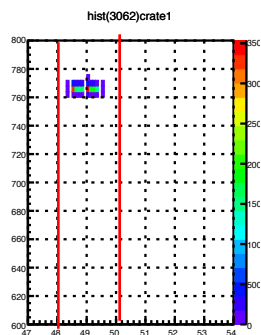
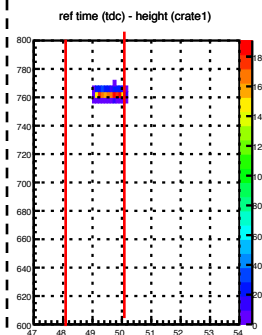
Before

After

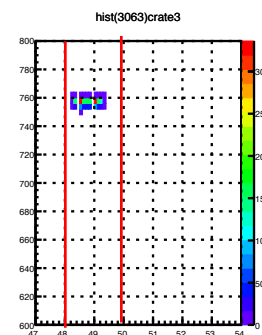
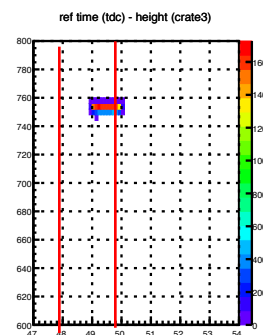
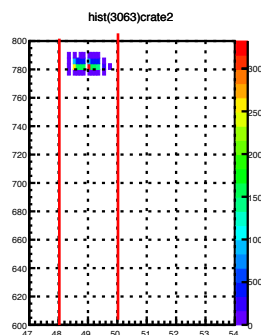
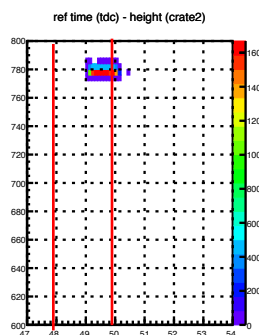
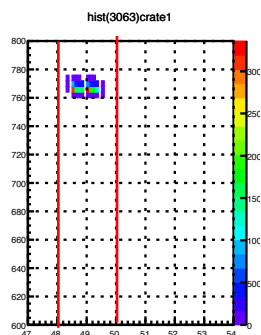
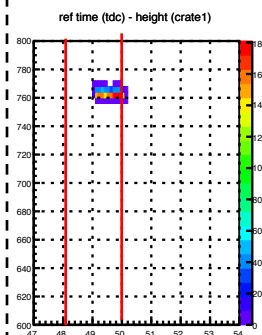
Before

After

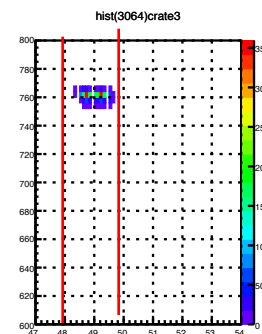
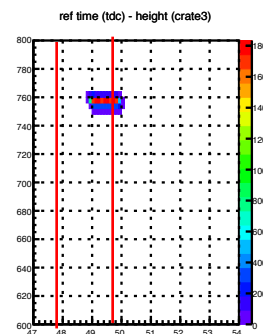
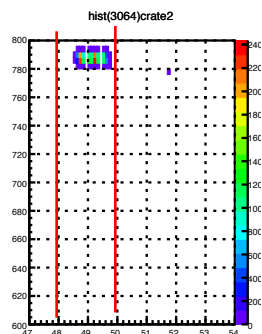
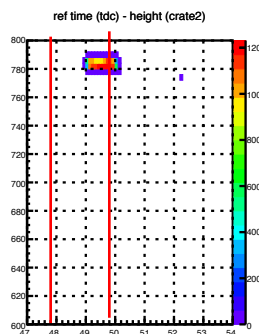
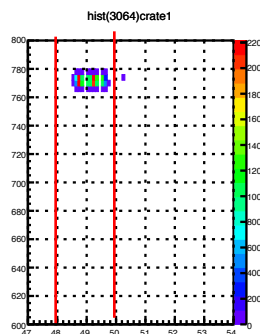
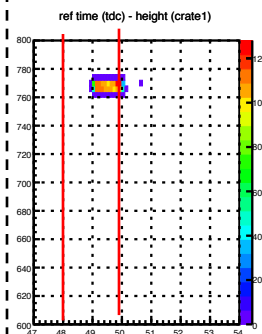
3062



3063



3064



Crate 1

Crate 2

Crate 3

run

Before

After

Before

After

Before

After

3065

ref time (tdc) - height (crate1)

hist(3065)/crate1

ref time (tdc) - height (crate2)

hist(3065)/crate2

ref time (tdc) - height (crate3)

hist(3065)/crate3

3066

ref time (tdc) - height (crate1)

hist(3066)/crate1

ref time (tdc) - height (crate2)

hist(3066)/crate2

ref time (tdc) - height (crate3)

hist(3066)/crate3

3067

ref time (tdc) - height (crate1)

hist(3067)/crate1

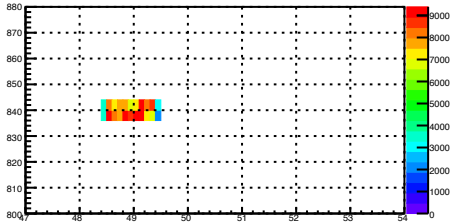
ref time (tdc) - height (crate2)

hist(3067)/crate2

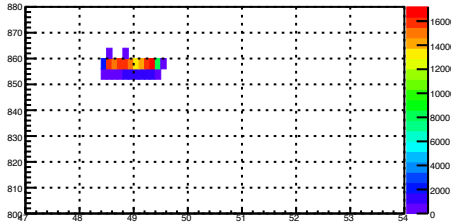
ref time (tdc) - height (crate3)

hist(3067)/crate3

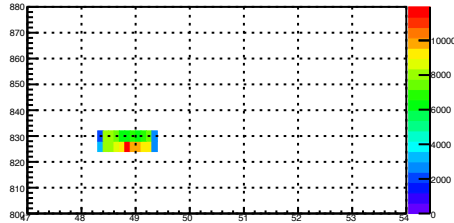
4519 crate 1



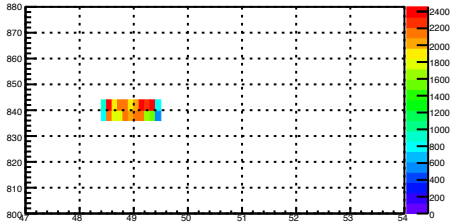
4519 crate 2



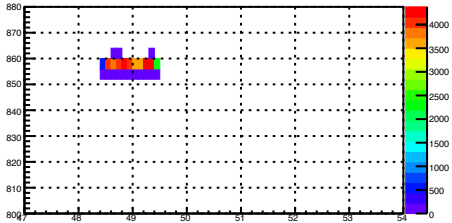
4519 crate 3



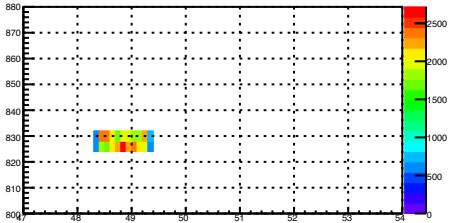
4520 crate1



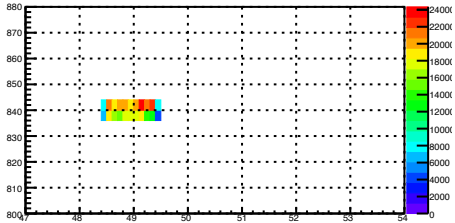
4520 crate2



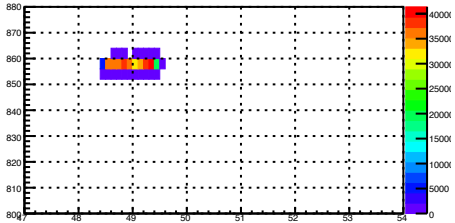
4520 crate3



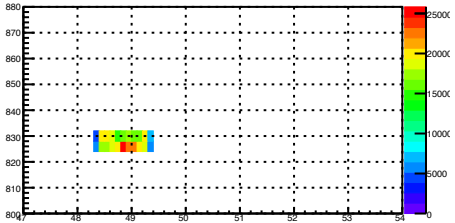
4521 crate1



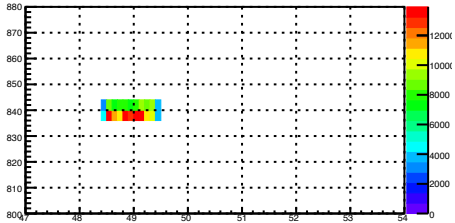
4521 crate2



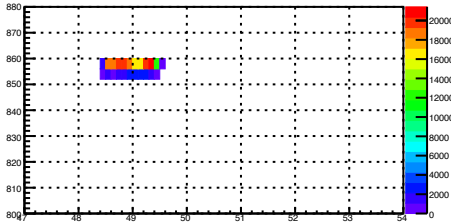
4521 crate3



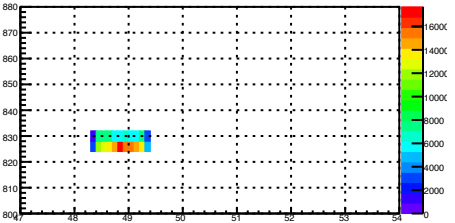
4522 crate1



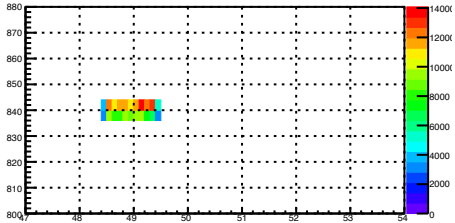
4522 crate2



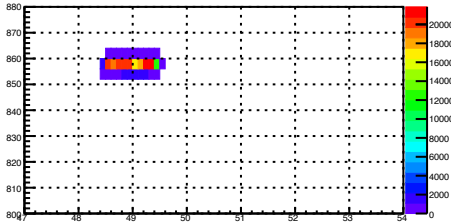
4522 crate3



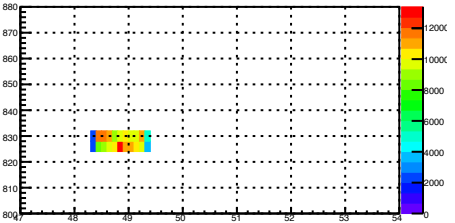
4523 crate1



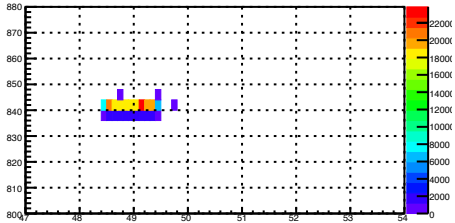
4523 crate2



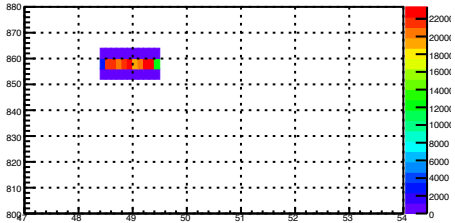
4523 crate3



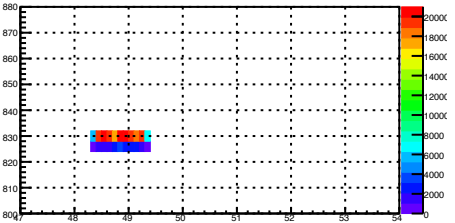
4524 crate1



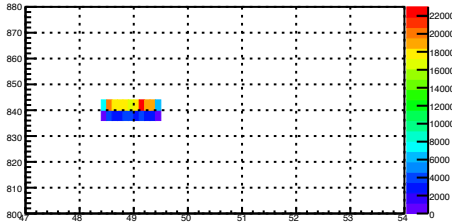
4524 crate2



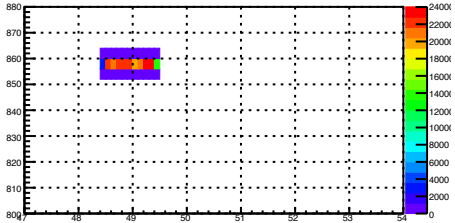
4524 crate3



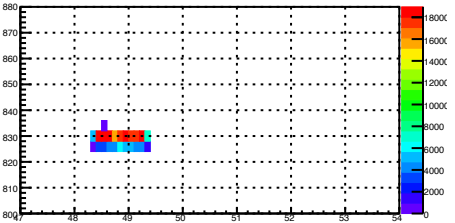
4525 crate1



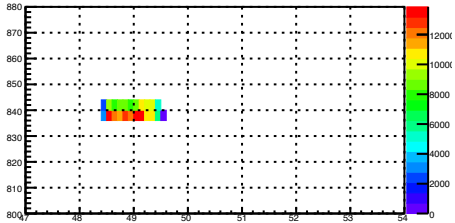
4525 crate2



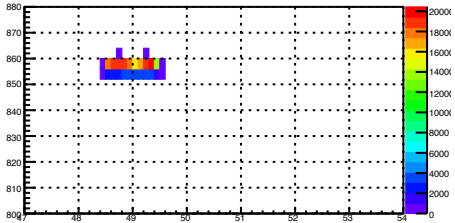
4525 crate3



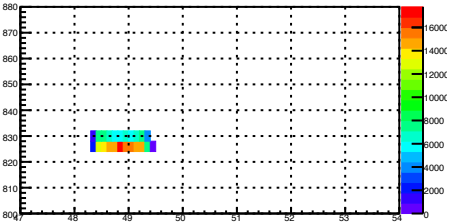
4526 crate1



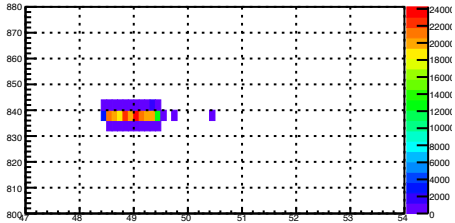
4526 crate2



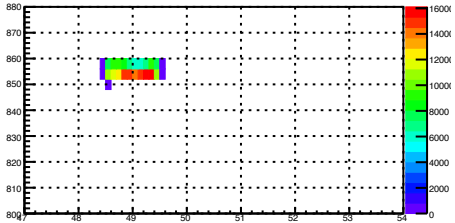
4526 crate3



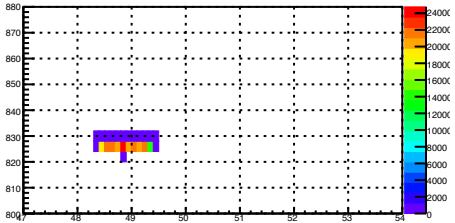
4527 crate1



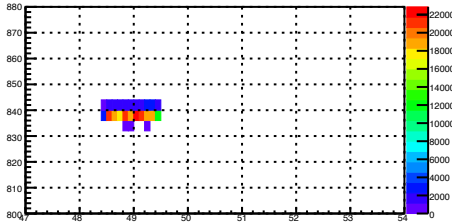
4527 crate2



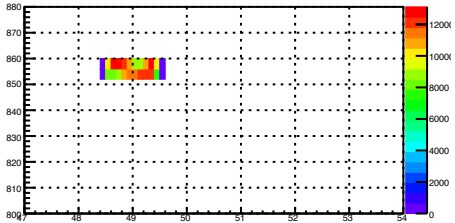
4527 crate3



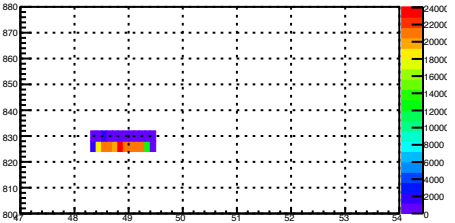
4528 crate1



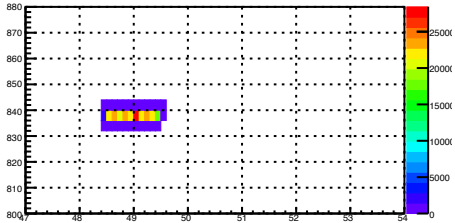
4528 crate2



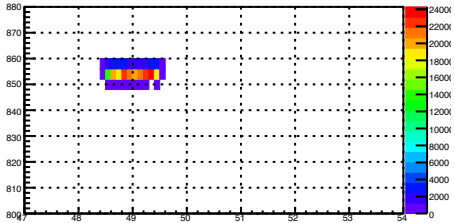
4528 crate3



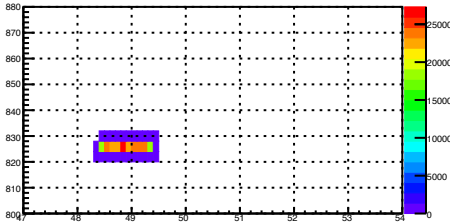
4529 crate1



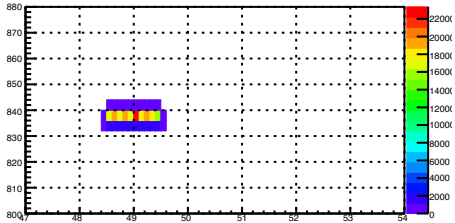
4529 crate2



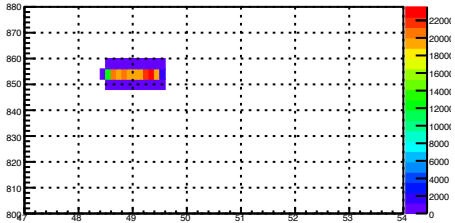
4529 crate3



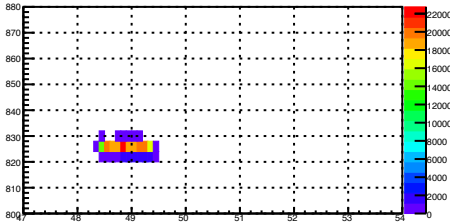
4530 crate1



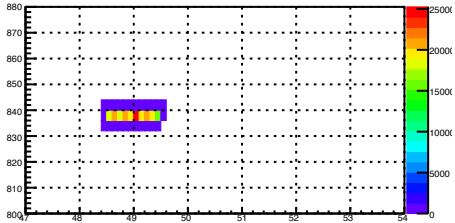
4530 crate2



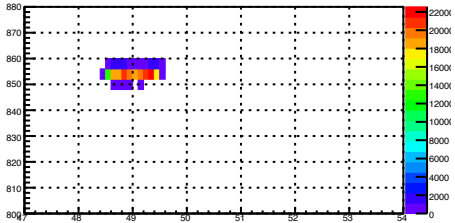
4530 crate3



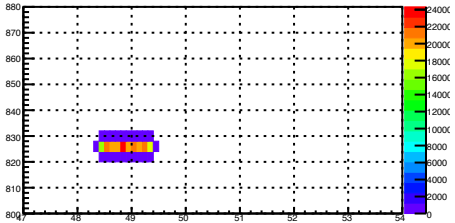
4531 crate1



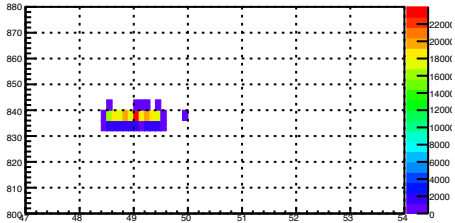
4531 crate2



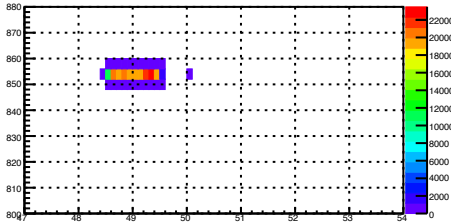
4531 crate3



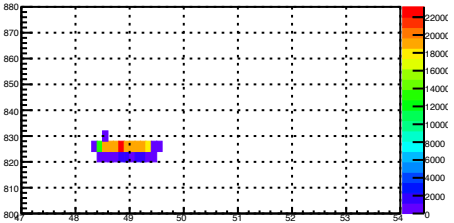
4532 crate1



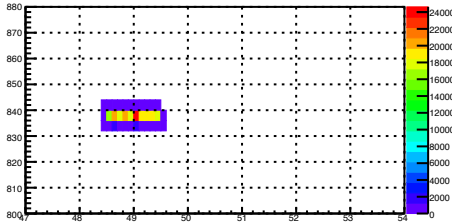
4532 crate2



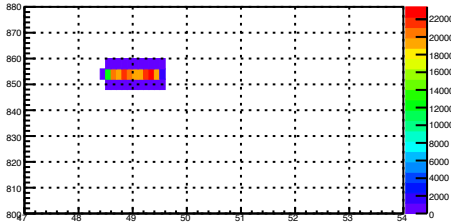
4532 crate3



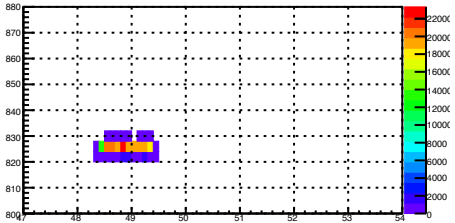
4533 crate1



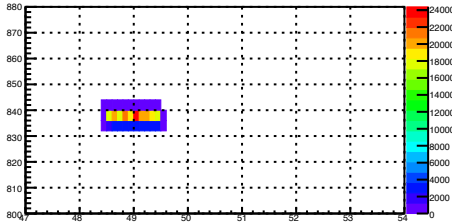
4533 crate2



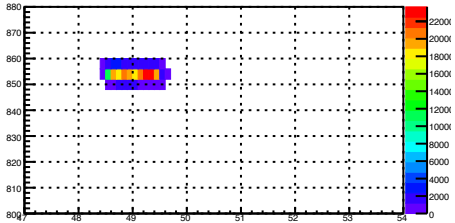
4533 crate3



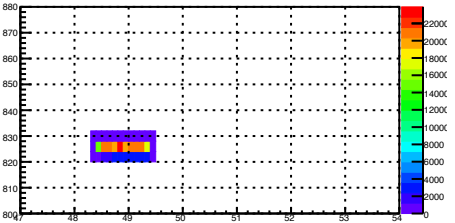
4534 crate1



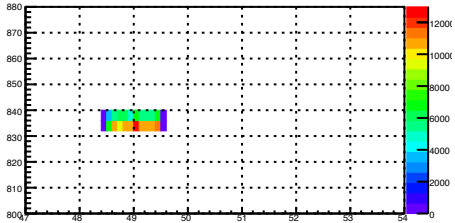
4534 crate2



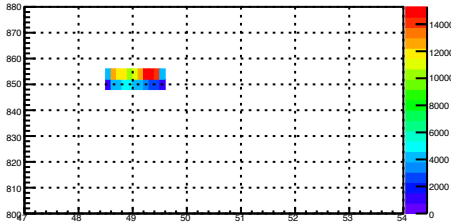
4534 crate3



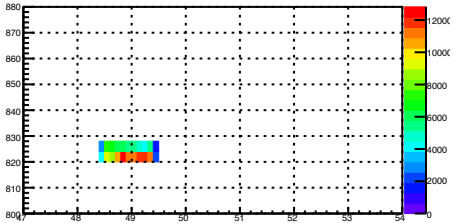
4535 crate1



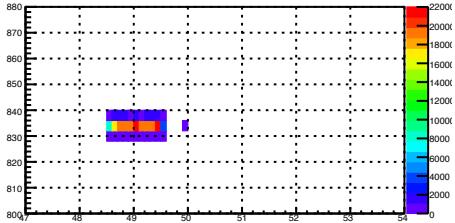
4535 crate2



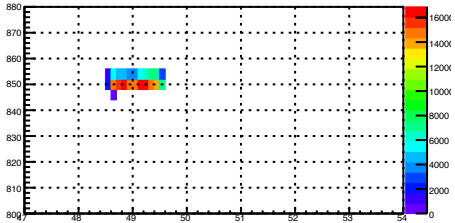
4535 crate3



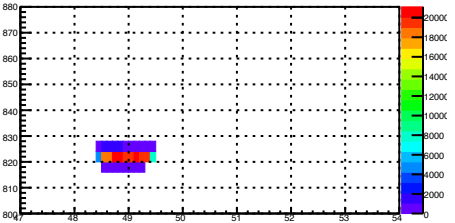
4536 crate1



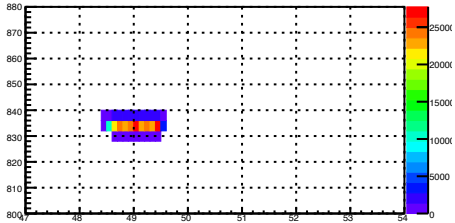
4536 crate2



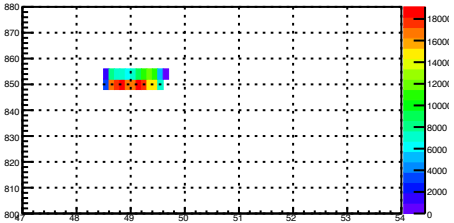
4536 crate3



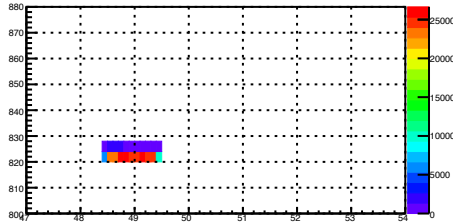
4537 crate1



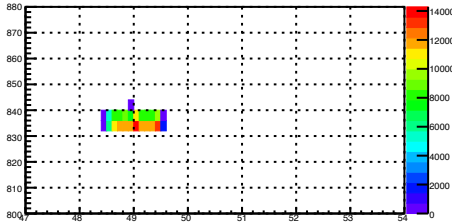
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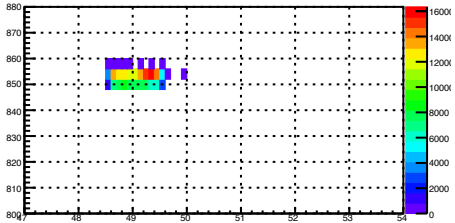
4537 crate3



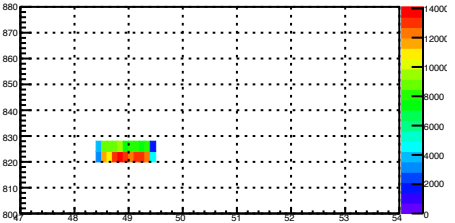
4538 crate1



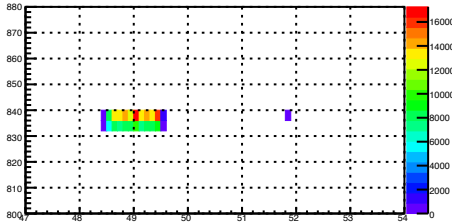
4538 crate2



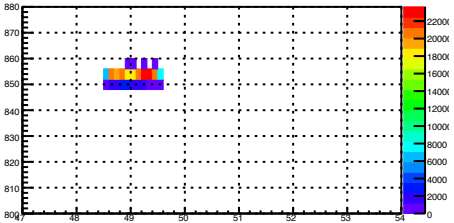
4538 crate3



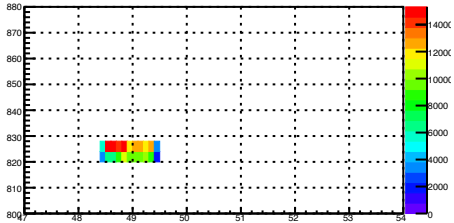
4539 crate1



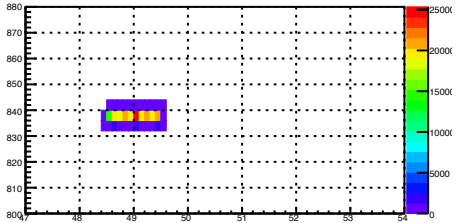
4539 crate2



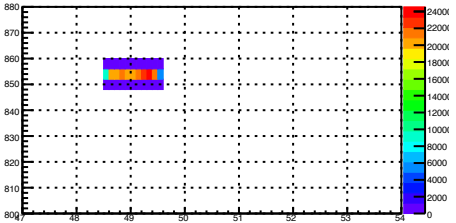
4539 crate3



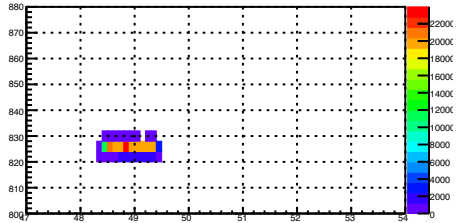
4541 crate1



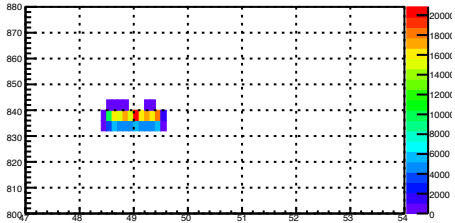
4541 crate2



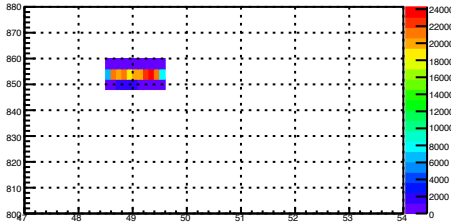
4541 crate3



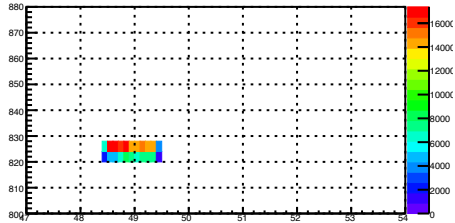
4542 crate1



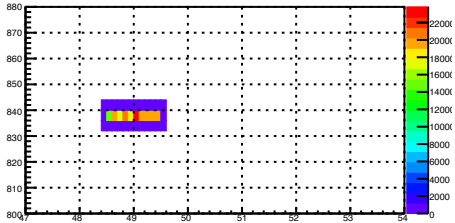
4542 crate2



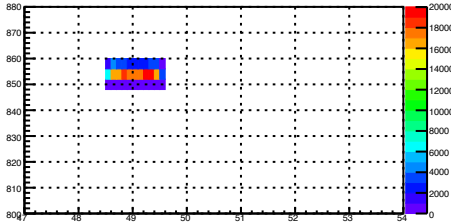
4542 crate3



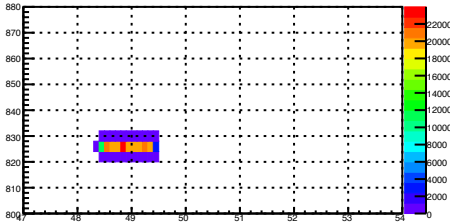
4543 crate1



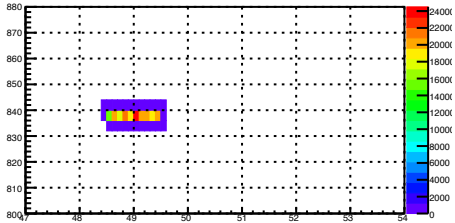
4543 crate2



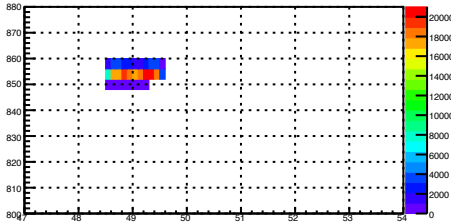
4543 crate3



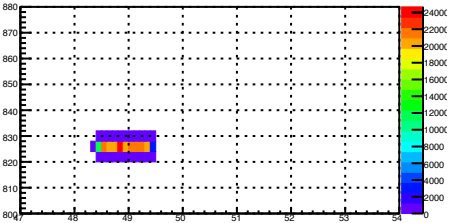
4544 crate1



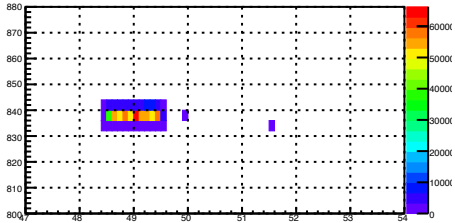
4544 crate2



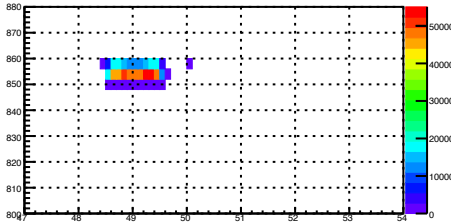
4544 crate3



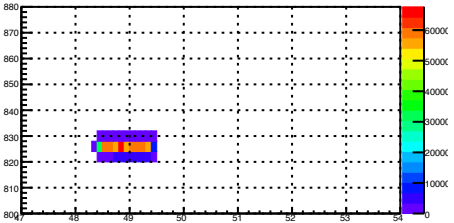
4545 crate1



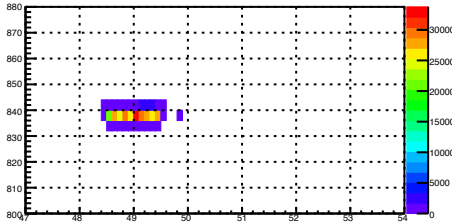
4545 crate2



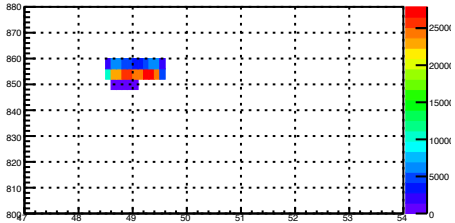
4545 crate3



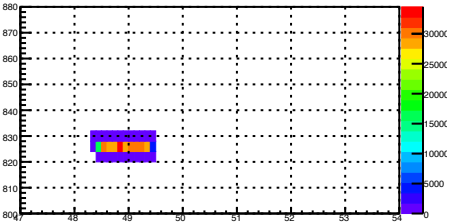
4546 crate1



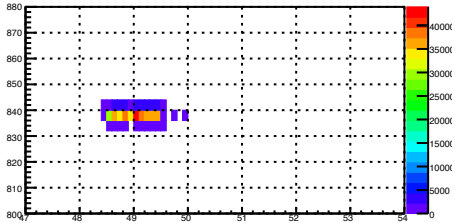
4546 crate2



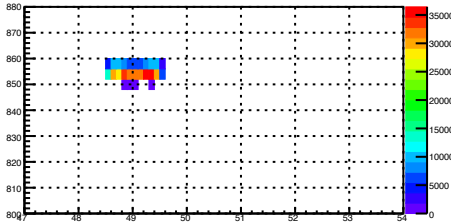
4546 crate3



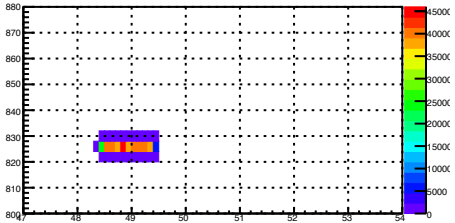
4547 crate1



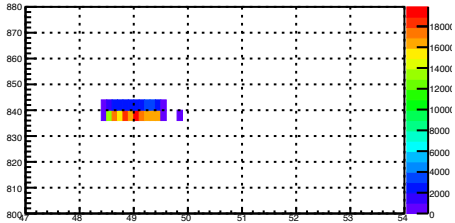
4547 crate2



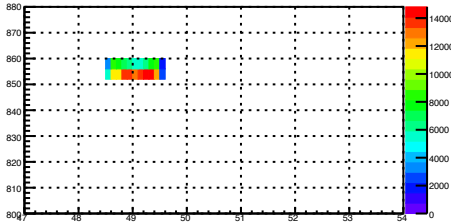
4547 crate3



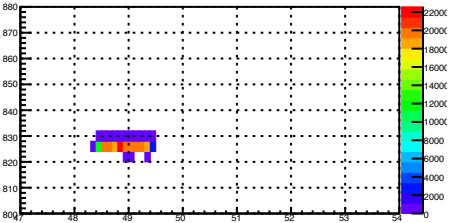
4548 crate1



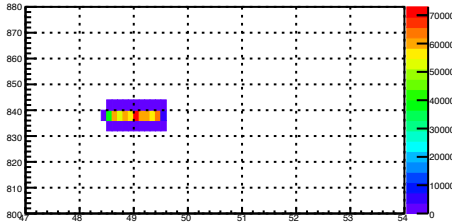
4548 crate2



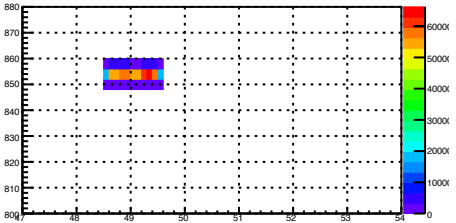
4548 crate3



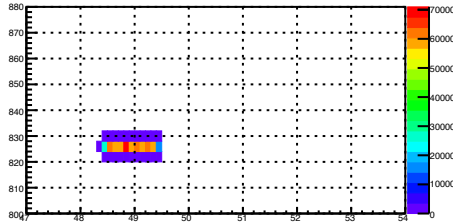
4549 crate1



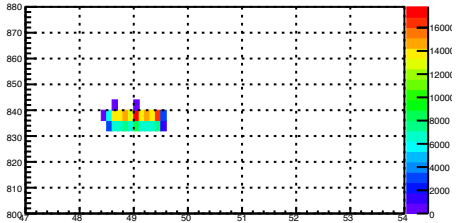
4549 crate2



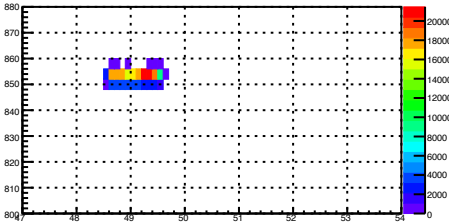
4549 crate3



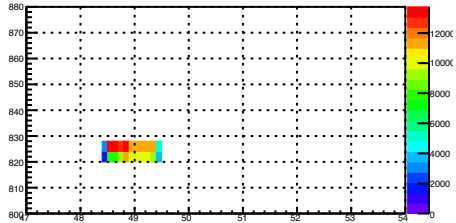
4550 crate1



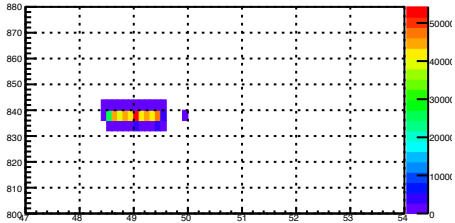
4550 crate2



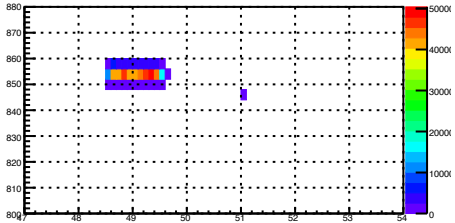
4550 crate3



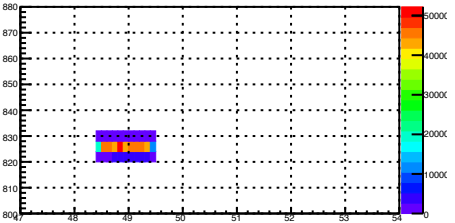
4551 crate1



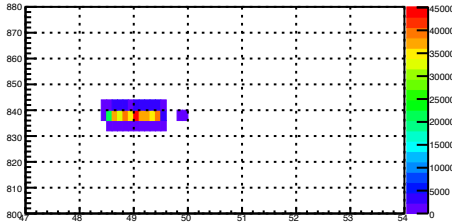
4551 crate2



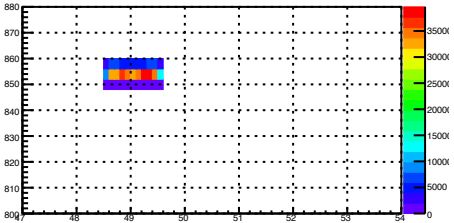
4551 crate3



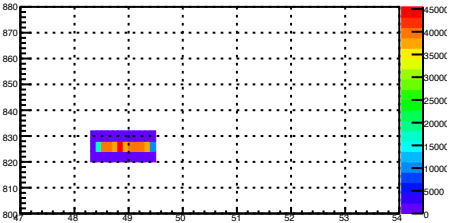
4552 crate1



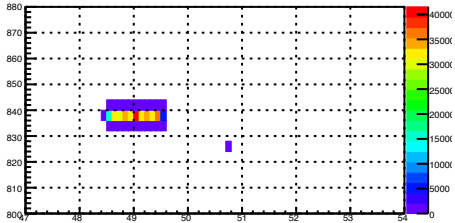
4552 crate2



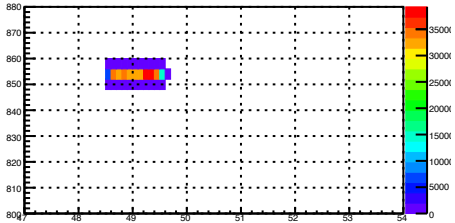
4552 crate3



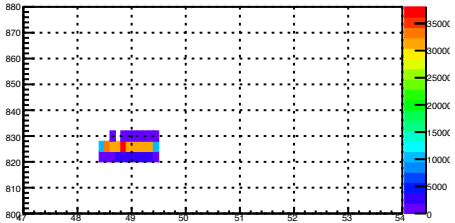
4553 crate1



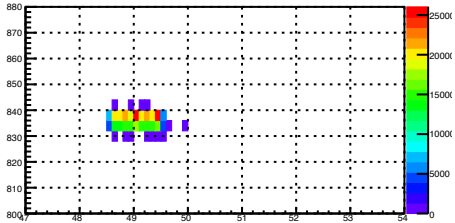
4553 crate2



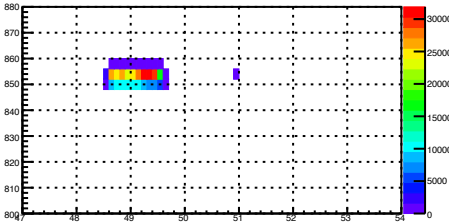
4553 crate3



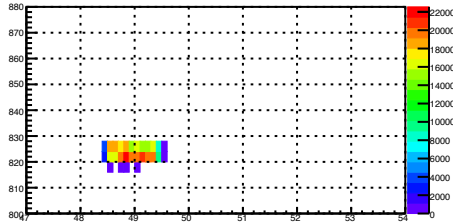
4554 crate1



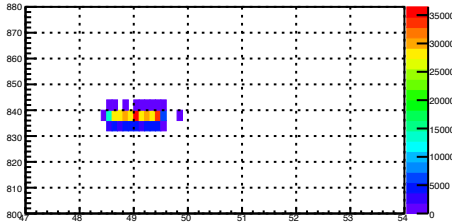
4554 crate2



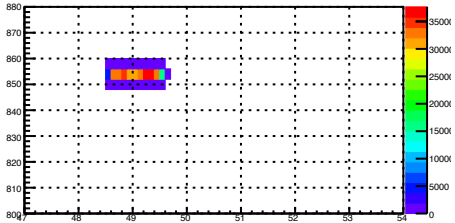
4554 crate3



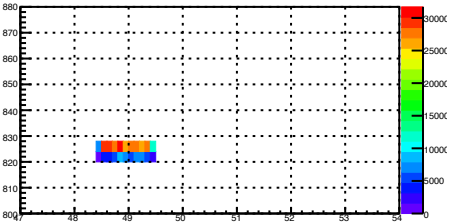
4555 crate1



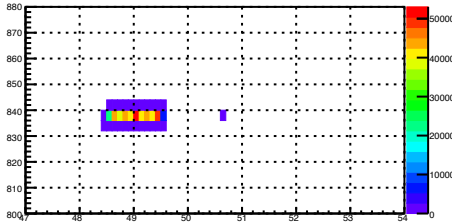
4555 crate2



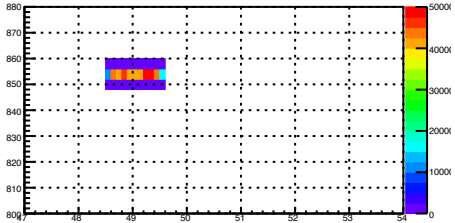
4555 crate3



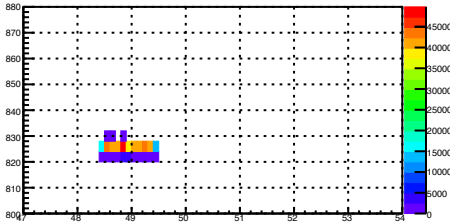
4556 crate1



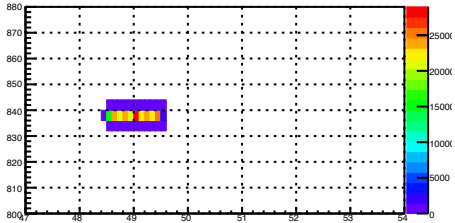
4556 crate2



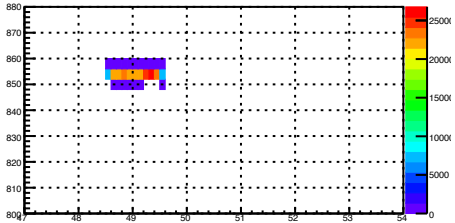
4556 crate3



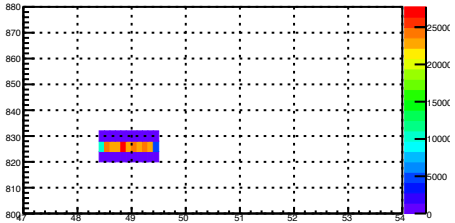
4557 crate1



4557 crate2



4557 crate3



Summary

- Reference time was corrected by using pulse height of reference signal.
- In 3059-3067 as calibration run, the correction was performed.
- In 4519-4557, the reference time was checked.
- The reference time was set to 48-50 tdc / 40 ns.