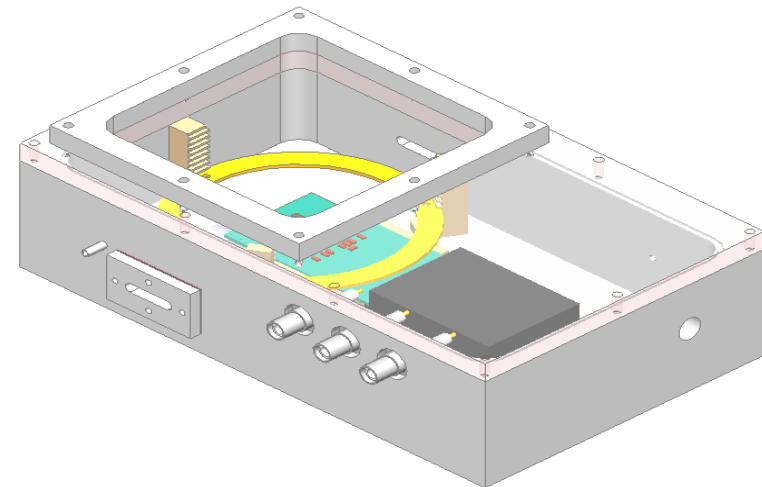
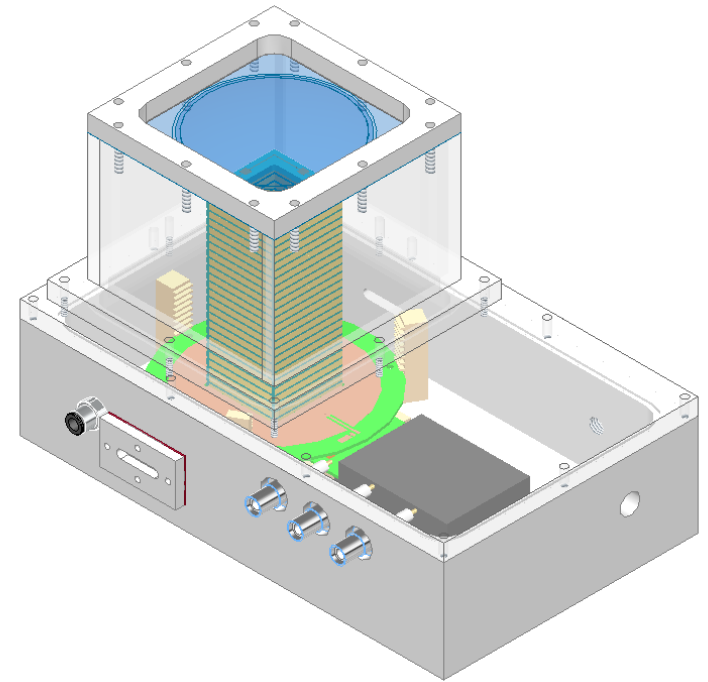
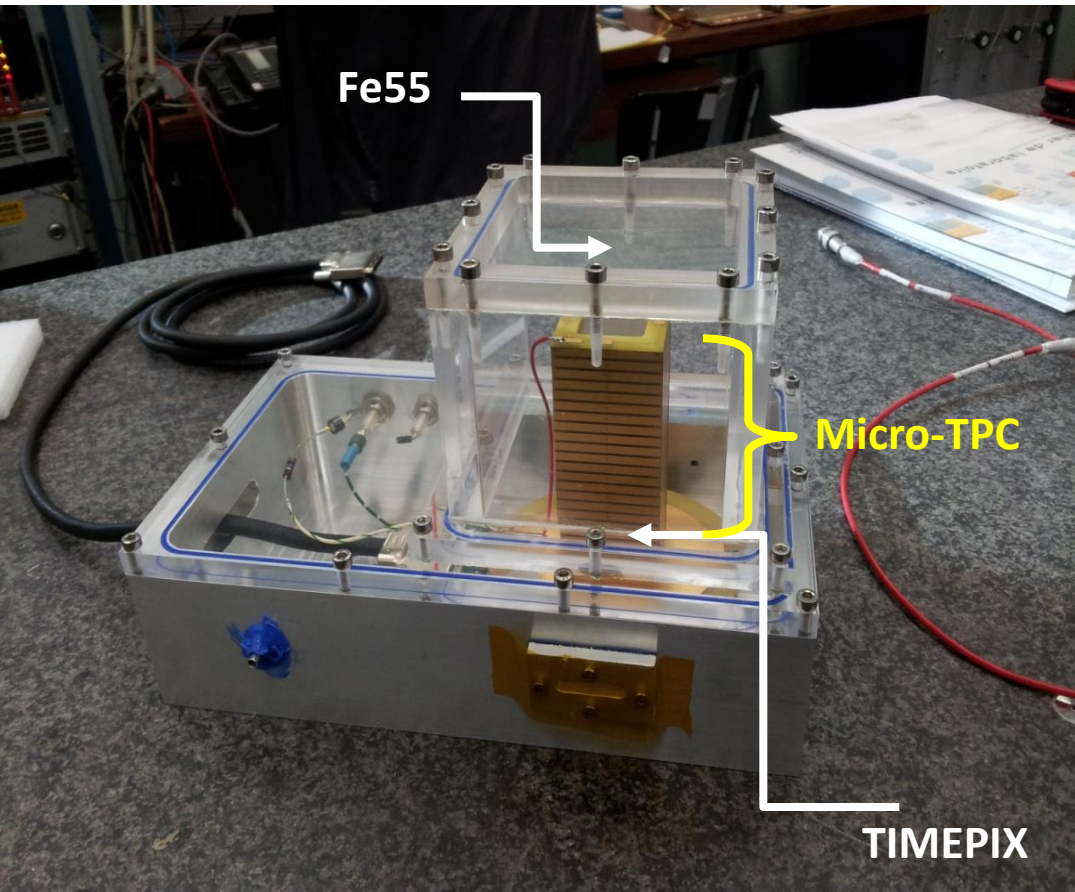


InGrid detector news

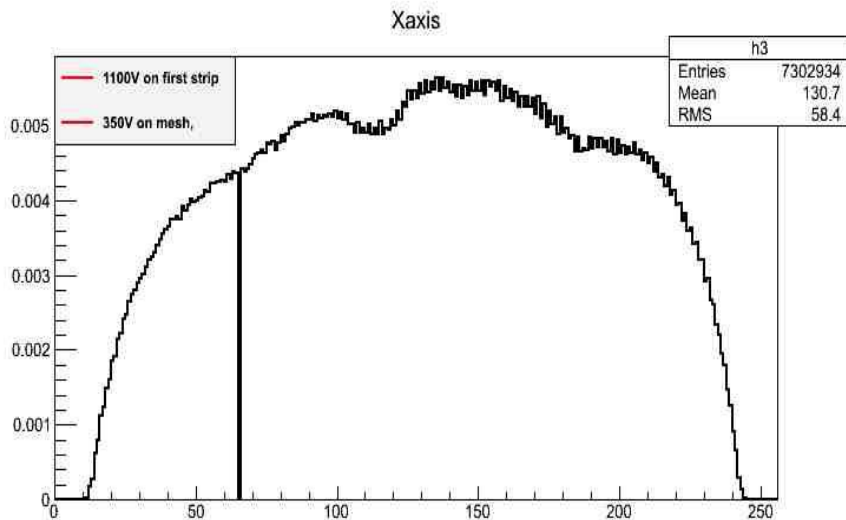
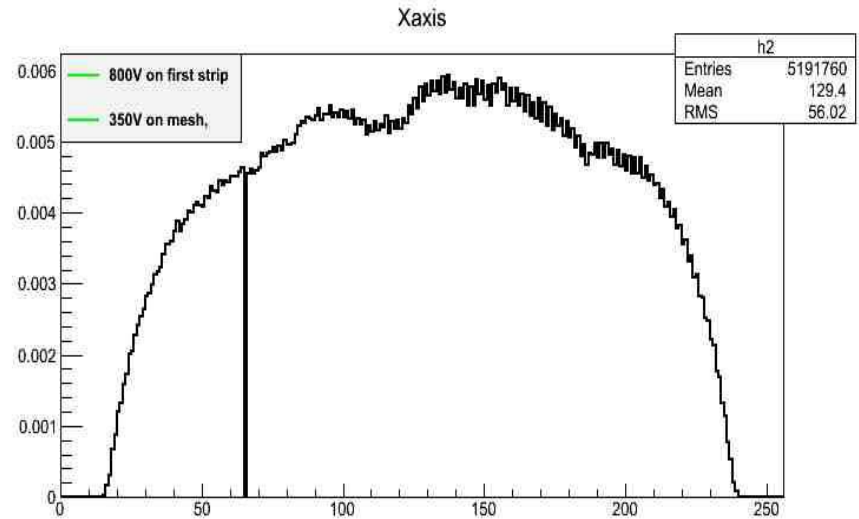
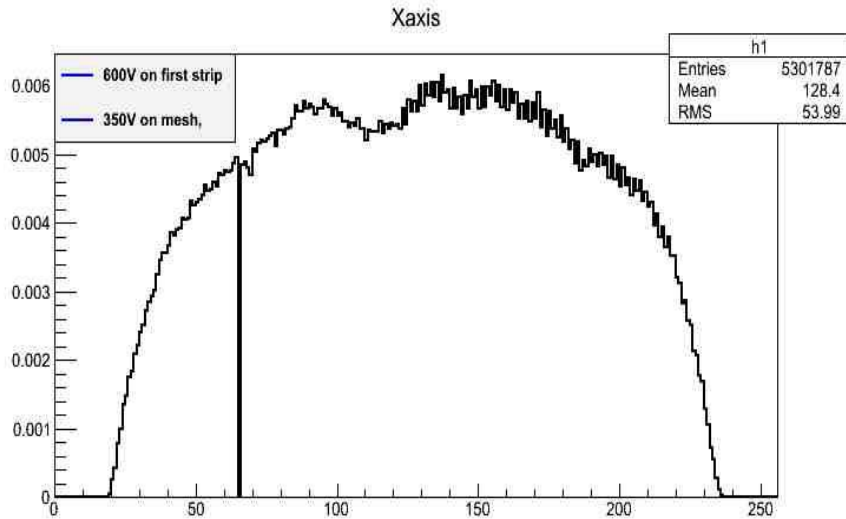
A.Chaus, D. Attie, P. Colas, M. Titov,
CEA Salay

Saclay Micro-TPC with Timepix

- Two micro-TPC boxes have been built
- Drift distance in micro-TPC (~ 10 cm) is large enough to allow study of single electron response from Fe55 source



D07 – this chip was tested first



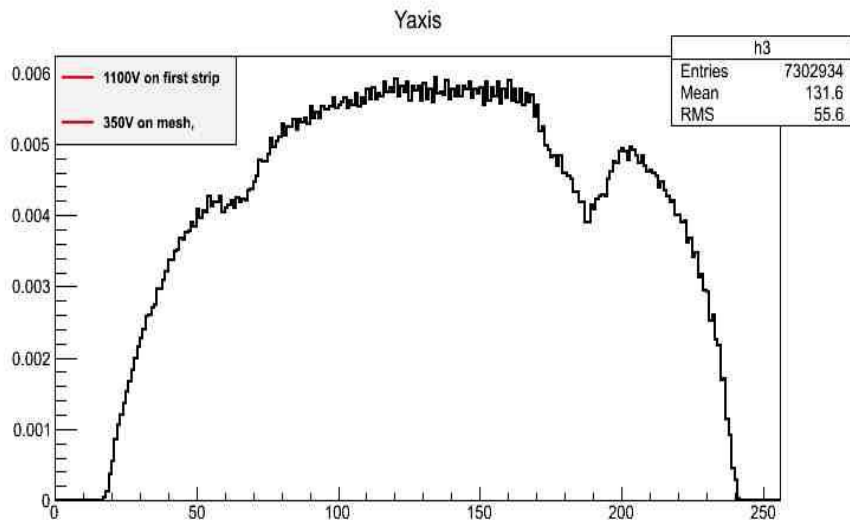
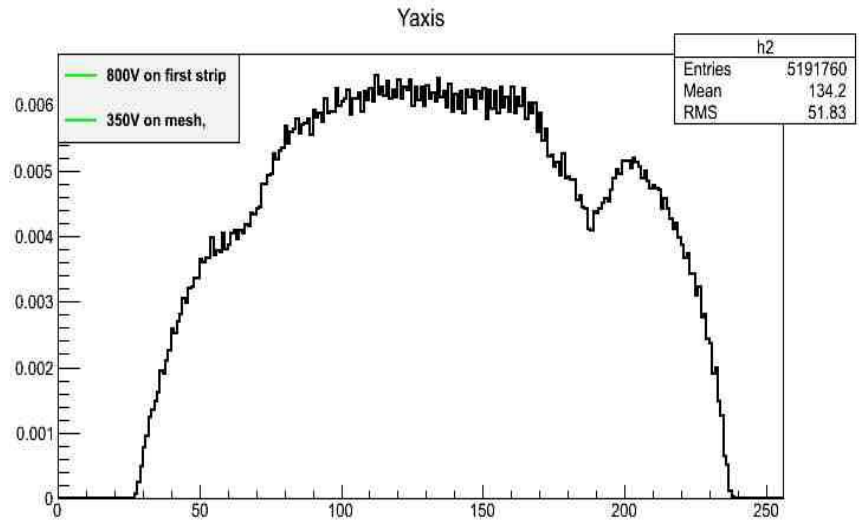
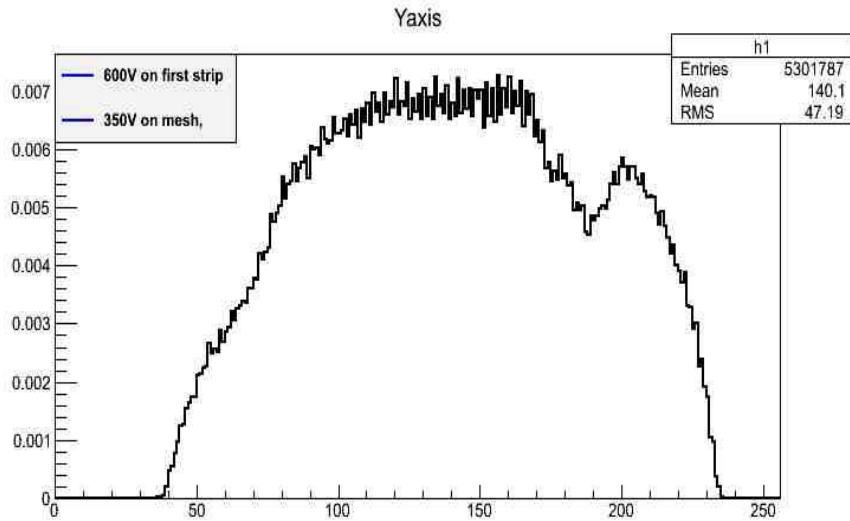
Proection on X-axis.
Different First strip voltage.

Left top = 600 V.

Right top = 800V.

Bottom = 1100V

D07 – this chip was tested first



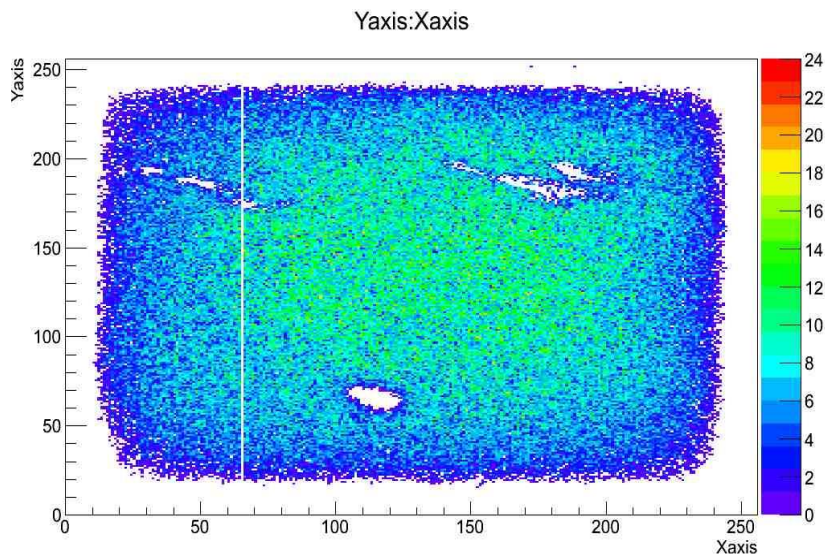
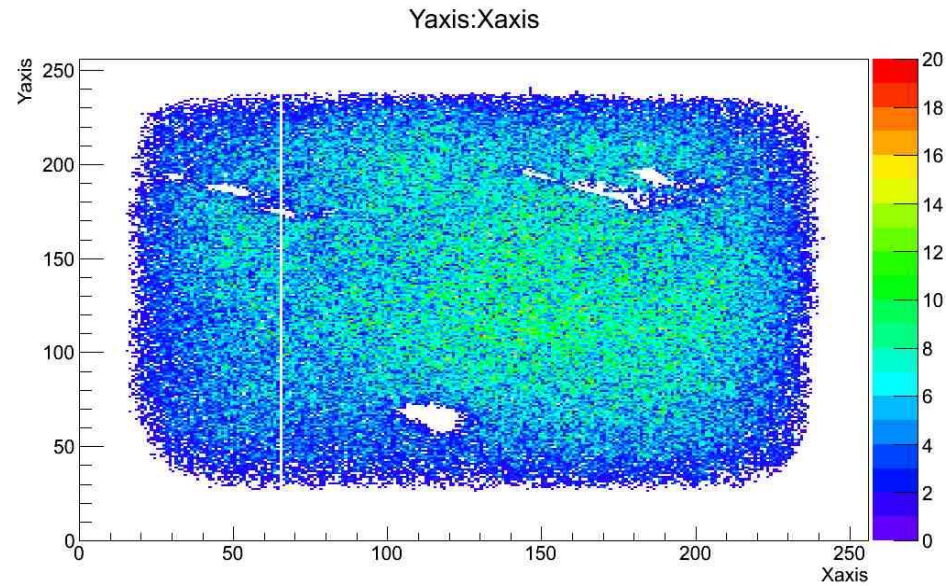
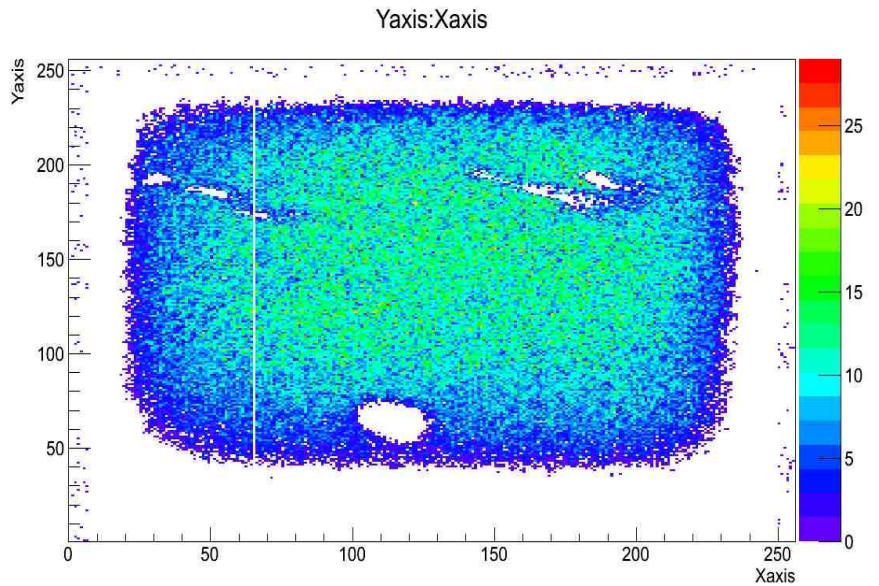
Proection on Y-axis.
Different First strip voltage.

Left top = 600 V.

Right top = 800V.

Bottom = 1100V

D07 – Integral figure



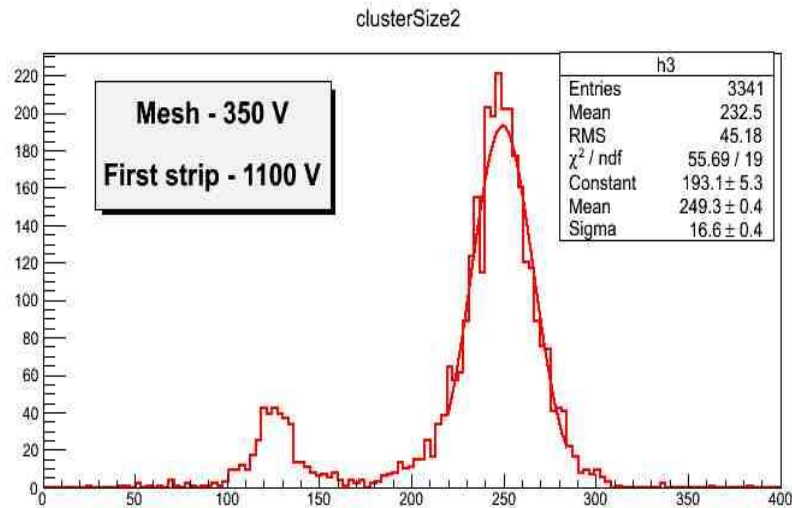
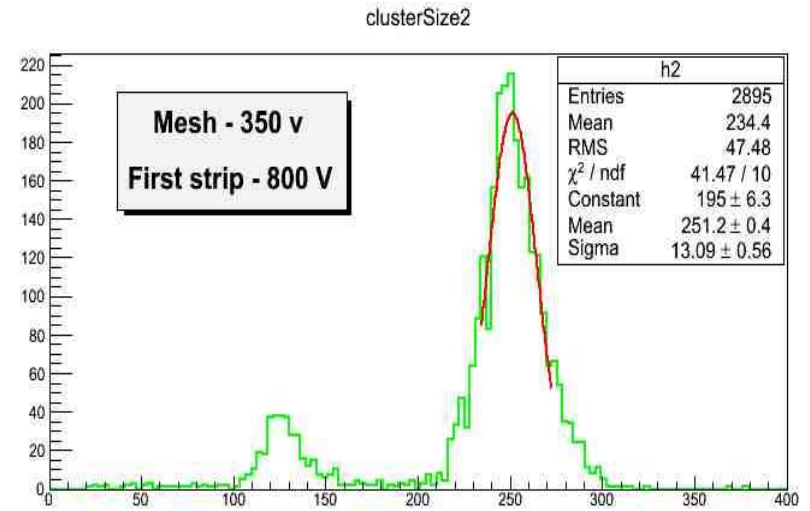
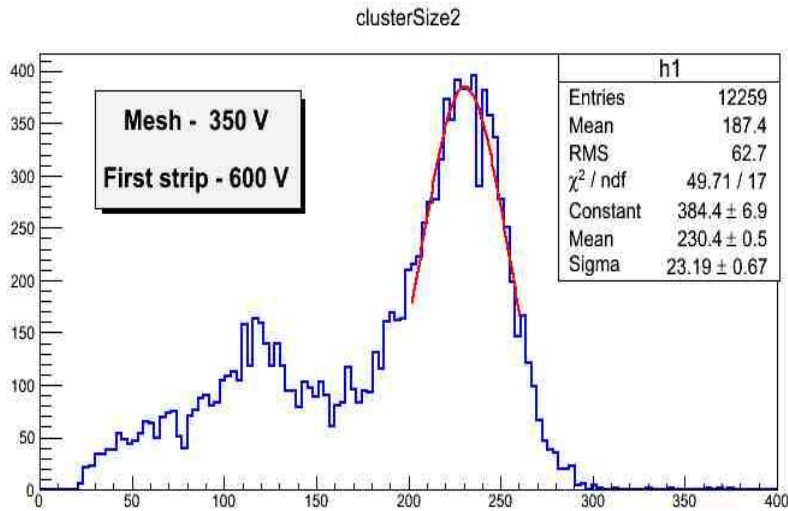
Proection on Y-axis.
Different First strip voltage.

Left top = 600 V.

Right top = 800V.

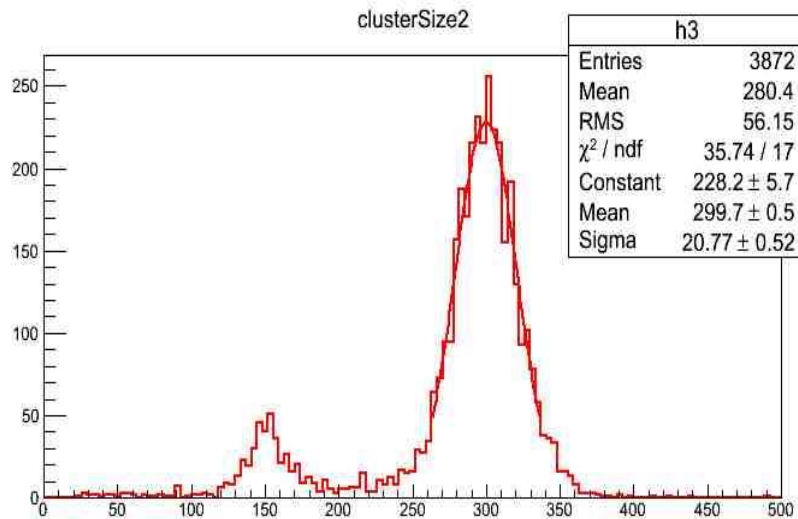
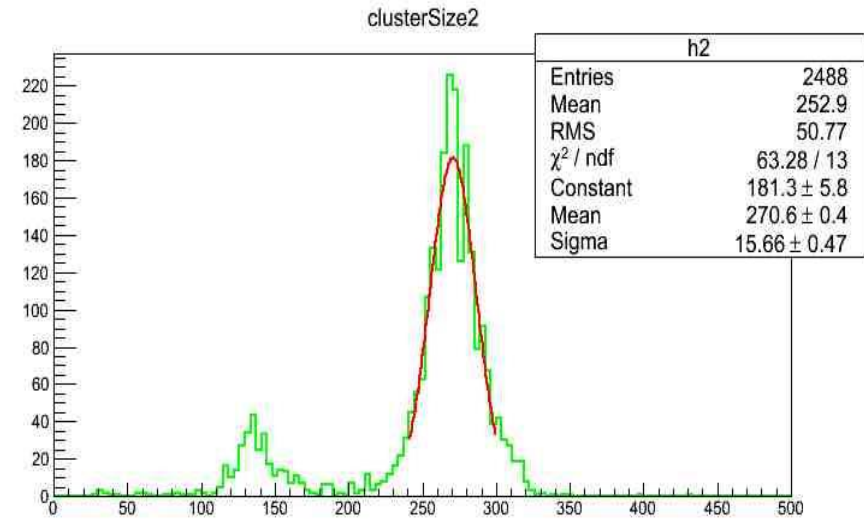
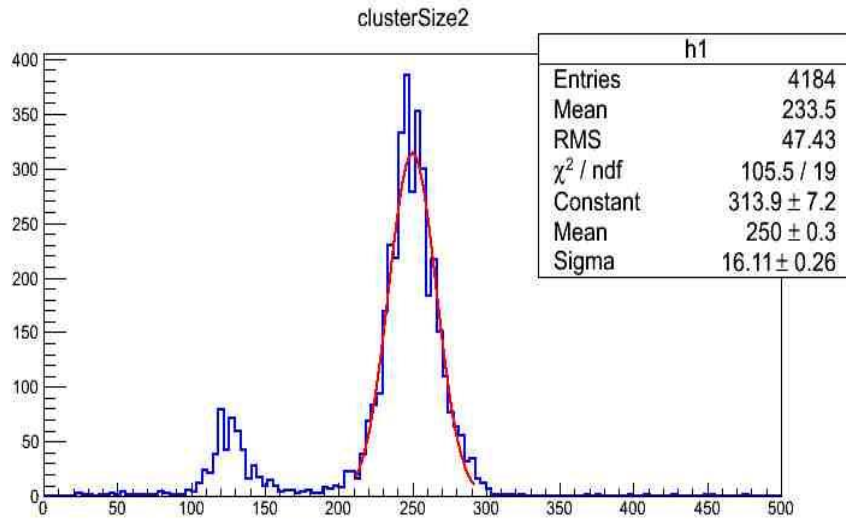
Bottom = 1100V

D07 - Iron55 spectra



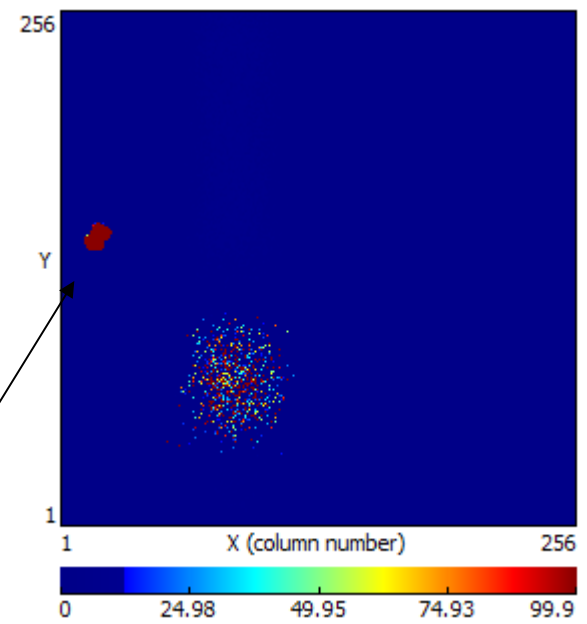
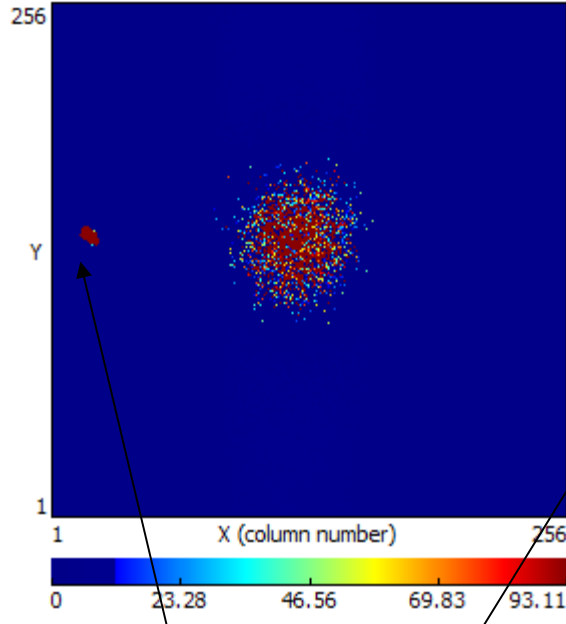
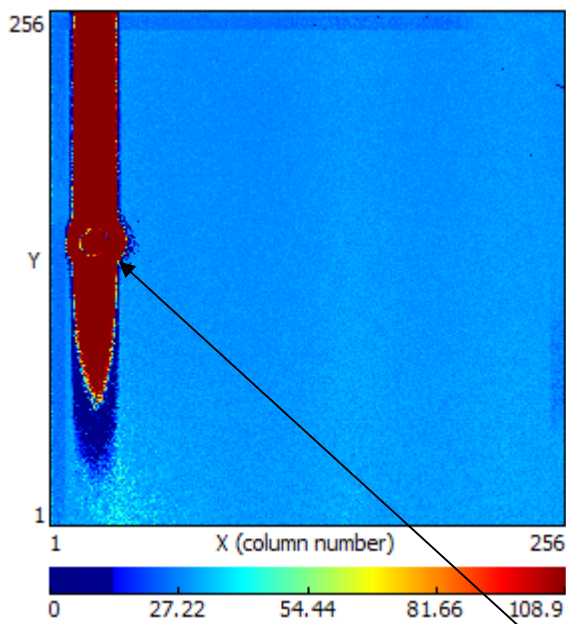
Iron 55 spectra
Different First strip voltage.
Left top = 600 V.
Right top = 800V.
Bottom = 1100V

D07 – Different voltages on mesh



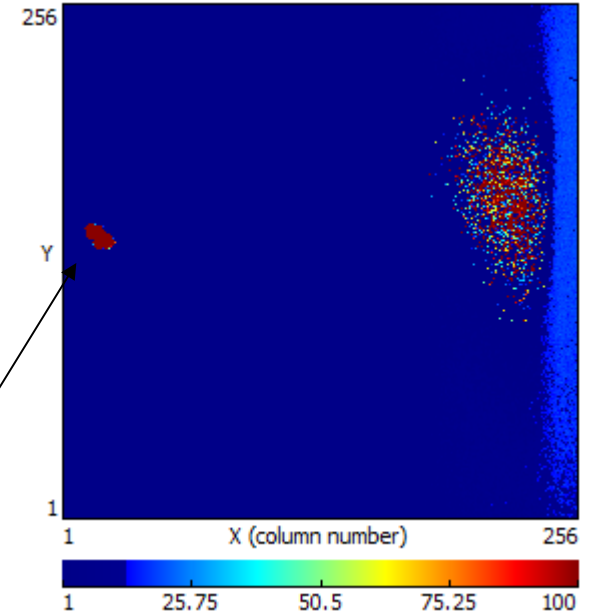
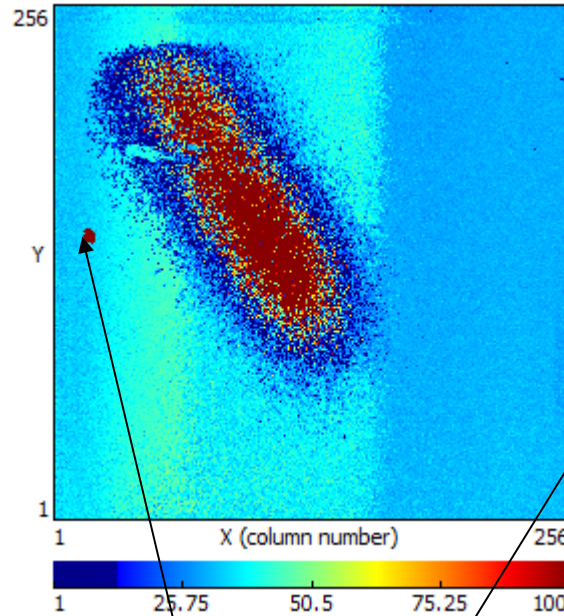
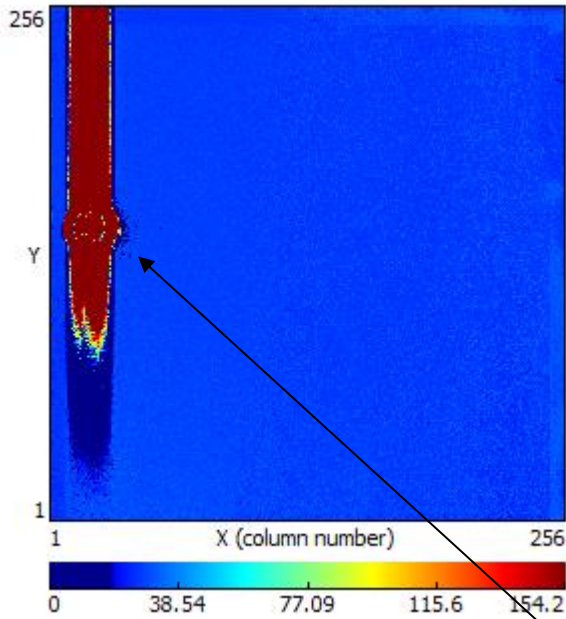
Iron 55 spectrs.
Different Mesh voltage.
Left top = 350 V.
Right top = 360V.
Bottom = 370V

C07 – this chip was tested second



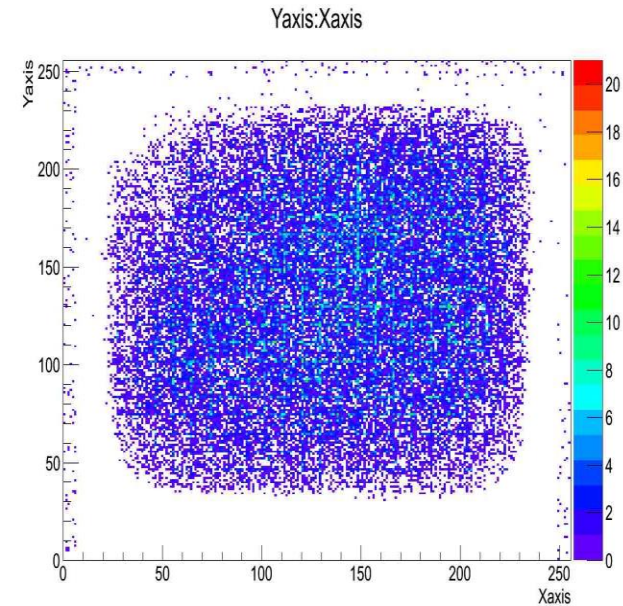
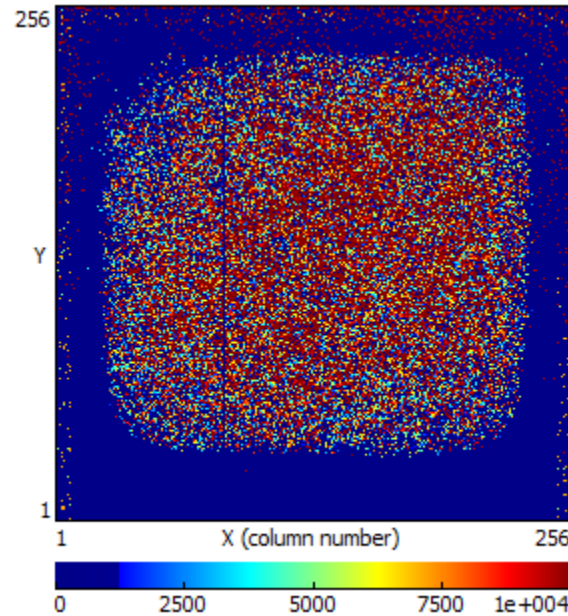
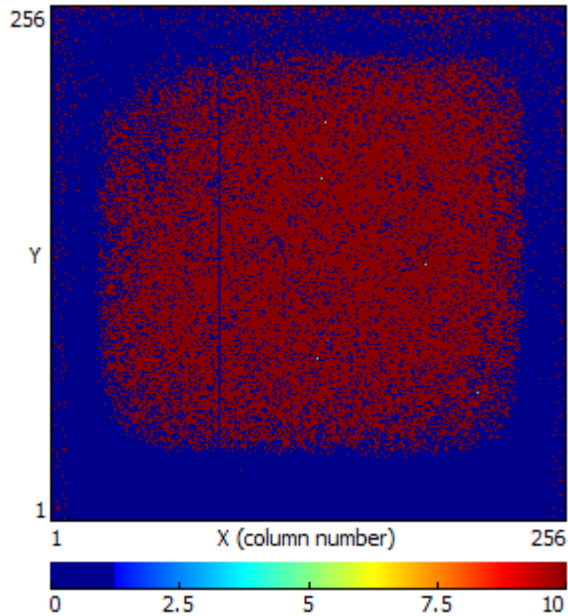
Leakage current

C07 – this chip was tested second



Leakage current

J07 – this chip was tested third

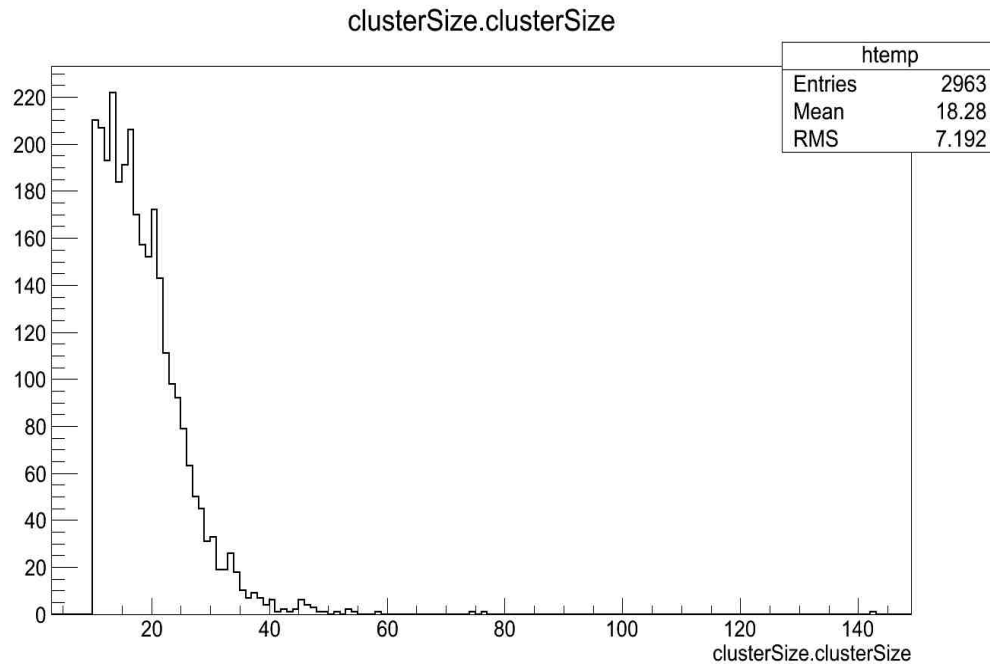


Integral frame. Mesh 390 V.

Drift field 200 V/cm. Problem with this chip is that

I saw in single frame ~ 20 primary electrons.

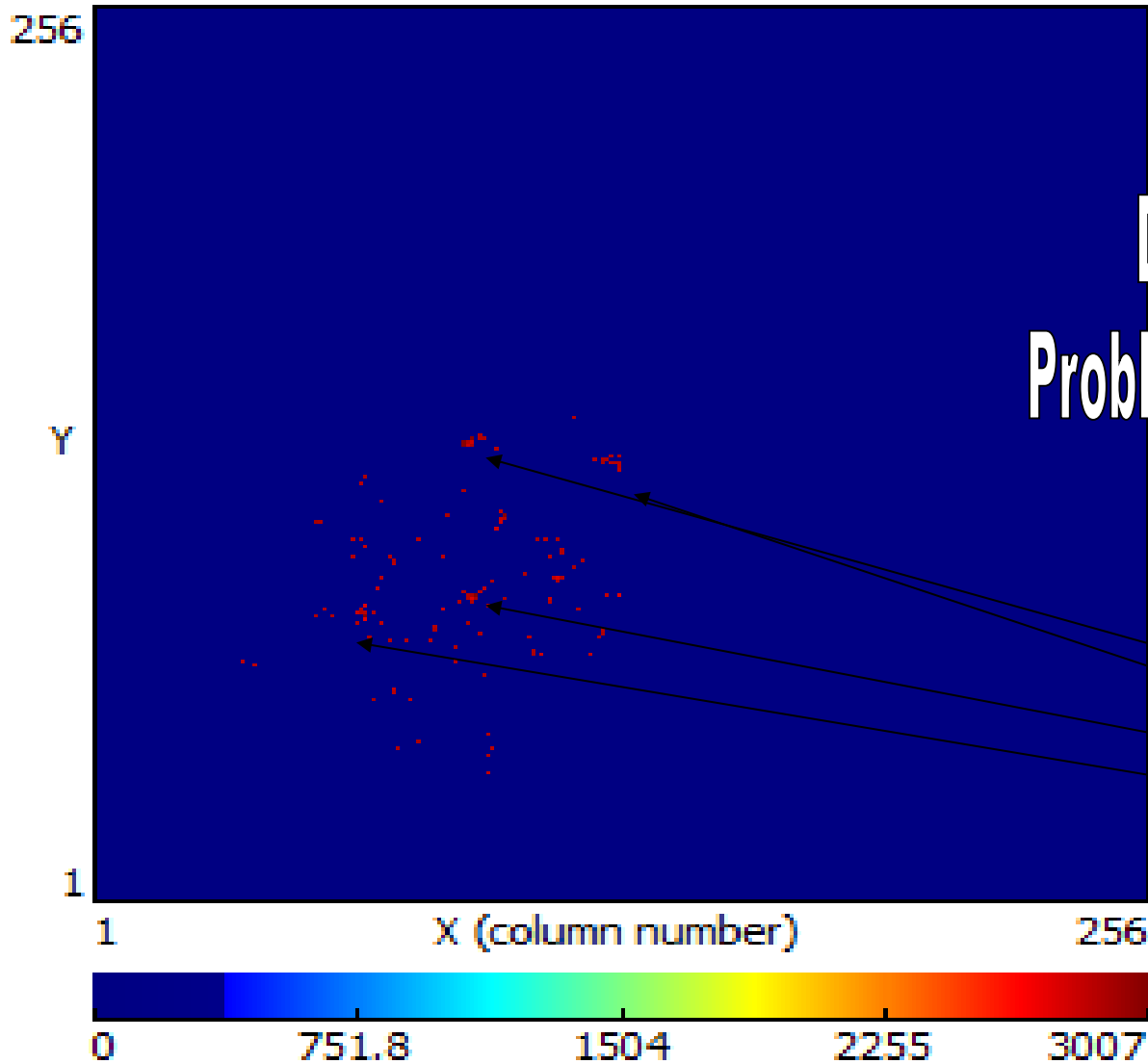
J07 – this chip was tested third



Cluster size. Mesh 390 V.

Drift field 200 V/cm. Problem with this chip is that I saw in single frame ≈ 20 primary electrons.

J07 - this chip was tested third



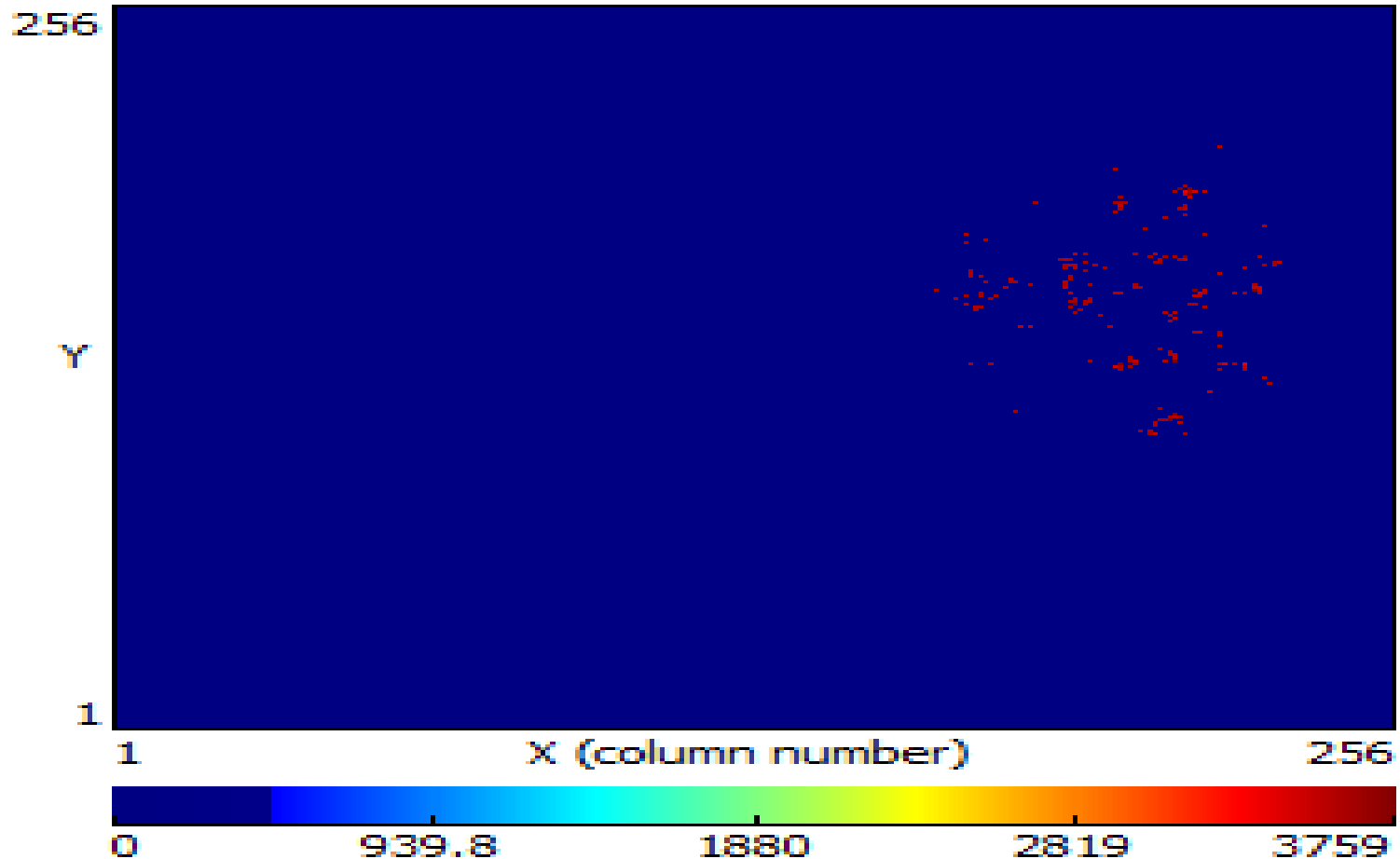
Mesh 410 V.

Drift field 200 V/cm.

Problem with this chip is that

strange

J07 - this chip was tested third



Pillar is higher than 50 μm ???

J07 - this chip was tested third

