

The chamber should hold 3 kV without break through.

What we measured in Protvino (July- 08.08.2011) for LIC:

- Batch#1: inside pressure 1.1 Bar; 2 shieldings; N2 gas bottle #1
- Batch#2: inside initial pressure 0.1 Bar; 2 shieldings; N2 gas bottle #1
- Batch#3: inside initial pressure 0.1 Bar; 2 shieldings; N2 gas bottle #2
- Batch#4: pressure changed 0.1 – 0.5 for HV measurements; final filling pressure is 0.4 Bar; 2 shieldings ; N2 gas bottle #2
- Batch#5: pressure changed from 0.1 - 0.4 for HV measurements; final filling pressure 0.4 Bar; 1 shielding; N2 gas bottle #2

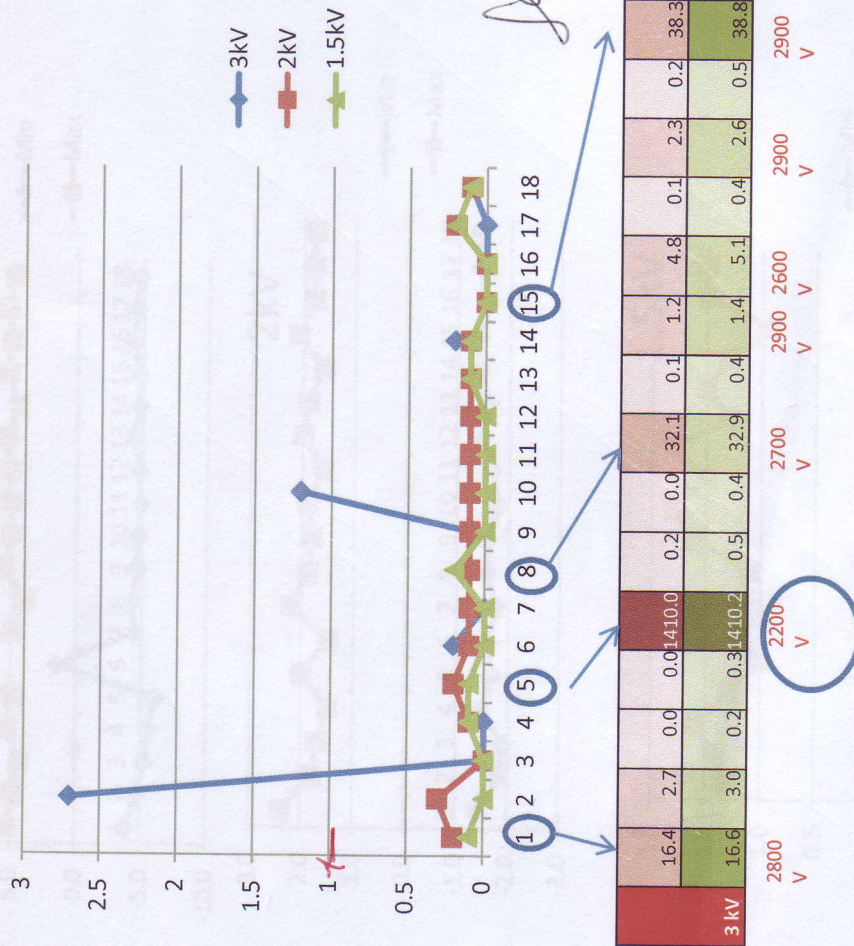
What we measured at CERN at 1.5;2;3 kV and 150 Kohm, w/t condensateur :

- Batch#1: 18 IC
- Batch#1: 18 IC (re-measured at 3 kV)
- Batch#2: 18 IC
- Batch#3: 18 SEM

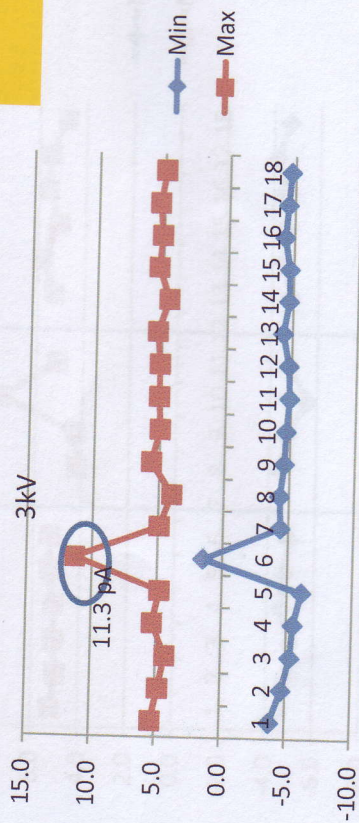
TC 28 JAN

18 SEM's:

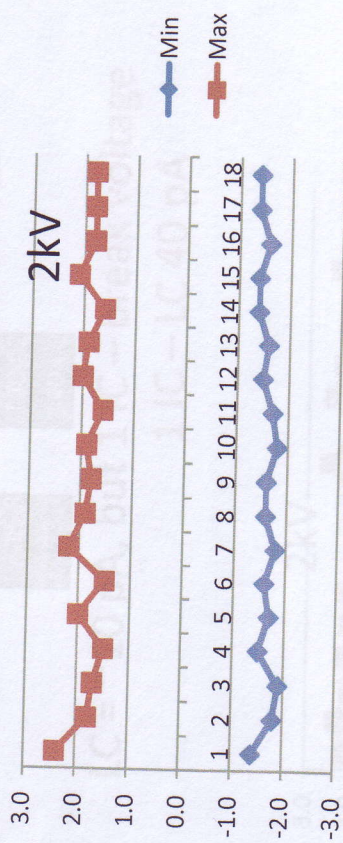
- 1 – break voltage 2.2 kV
- 4 – LC jump up at 2.6-2.9 kV



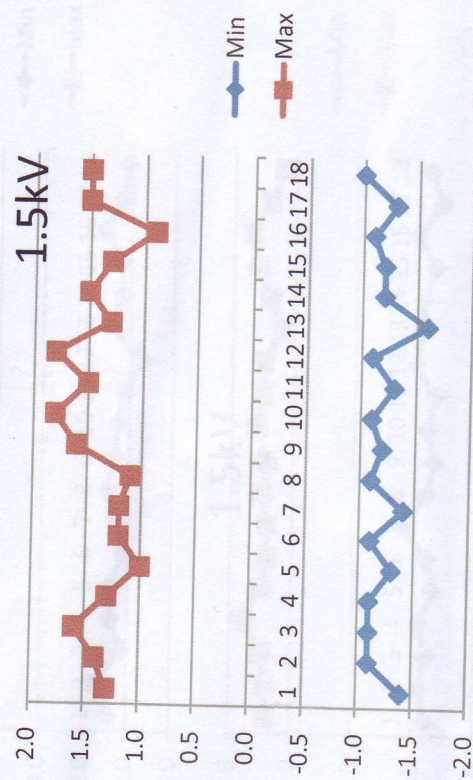
Batch#2
18 IC



LC = ~10 pA



LC = ~4 pA



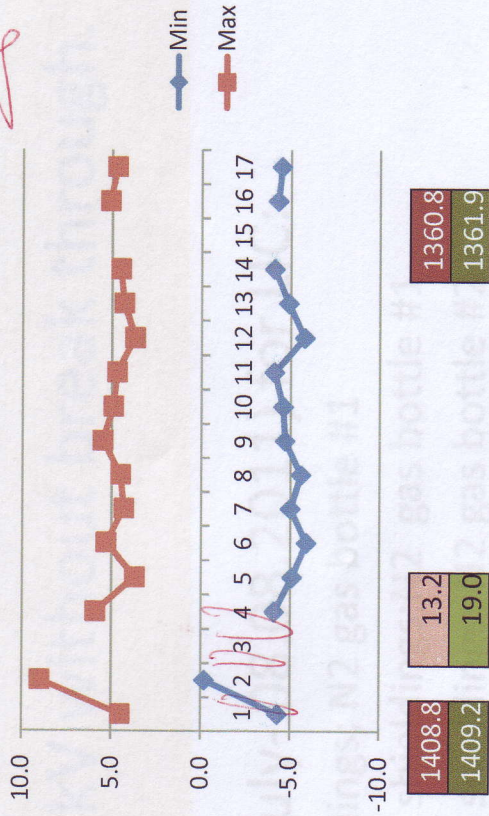
LC = ~2.5 pA

3kV (1st measurements)

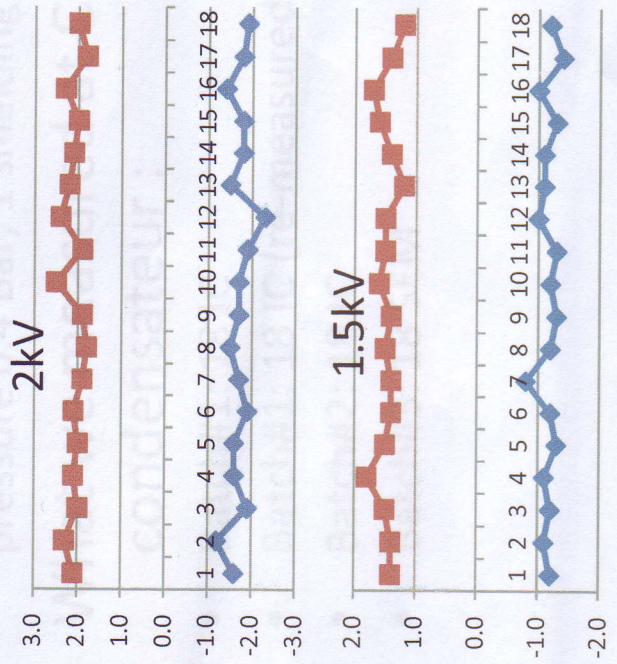


LC = ~10 pA, but 1 IC – break voltage
1 IC – LC 40 pA

3kV (2nd measurements)



LC = ~10 pA, but 2 IC – break voltage
1 IC – LC 30 pA



LC = ~4 pA

LC = ~2.5 pA

Batch#1
18 IC