

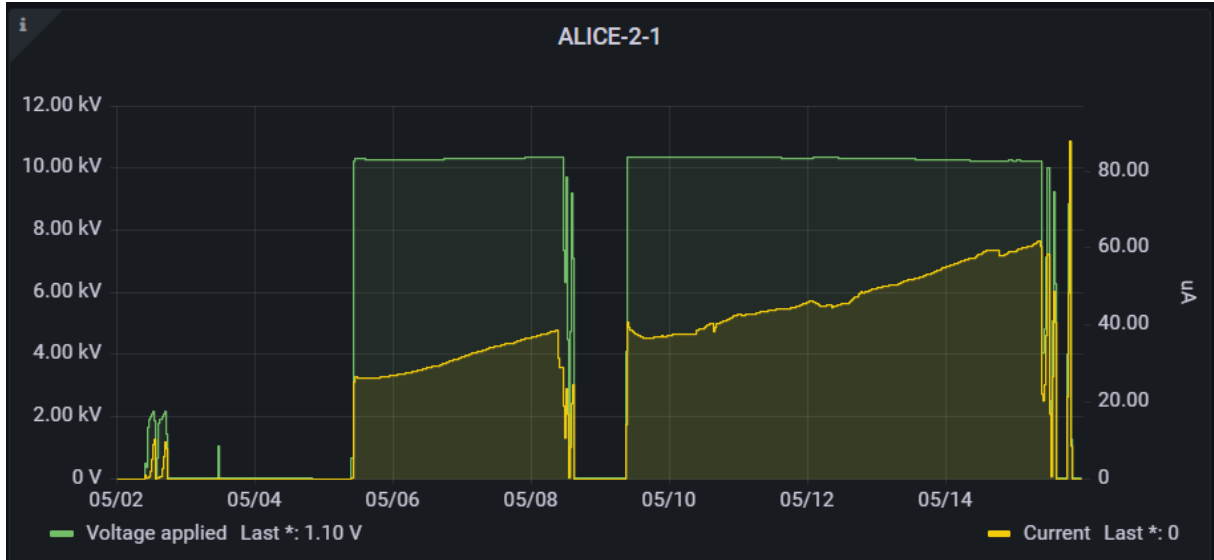
Report on ECOgas weekly shift (9th – 15th May)

Umesh INFN Bari

System status:

- System flushing with ECO2 gas, HFO used 2.26 kL.
- Stability scan: **213** (from 09/05/2024 11:00 hrs. to 15/05/2024 09:00 hrs.)
- Weekly source off scans: **853, 854, 855**
- Ongoing stability scan: **214** (started today morning 6:50 am)

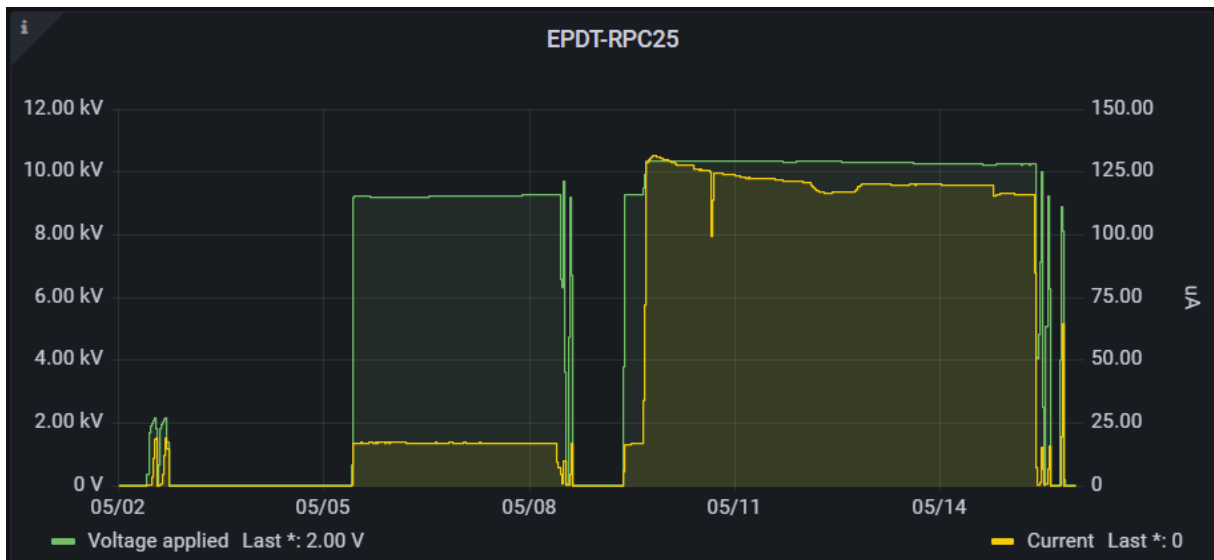
Stability Run overview



ALICE-2-1 RPC

HV: 10.6 kV

Current: kept on increasing (in the last 7 days, increased from 37 uA to 61 uA). The same trend was observed in the past week also.



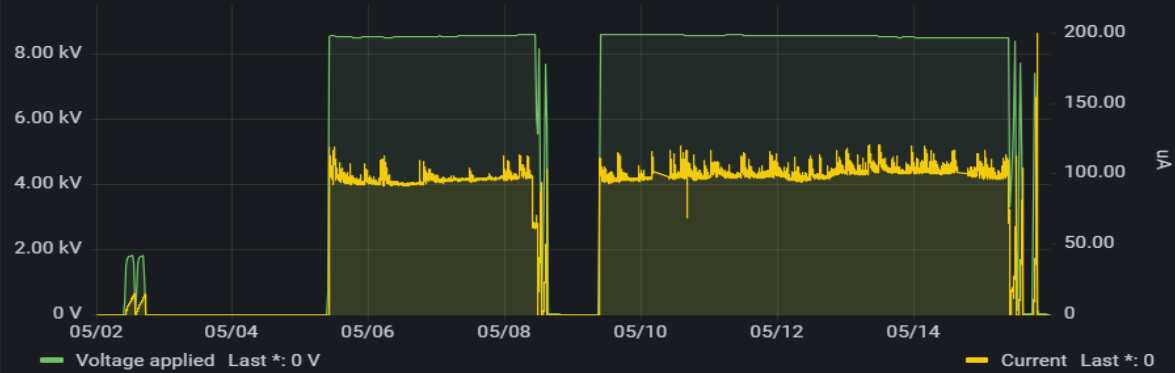
EPDT-RPC 25

On 09th May evening HV increased from 9.5 kV to 10.6 kV

Current limit set to 200 uA

Current stabilized in this week: 128 uA to 116 uA

SHiP

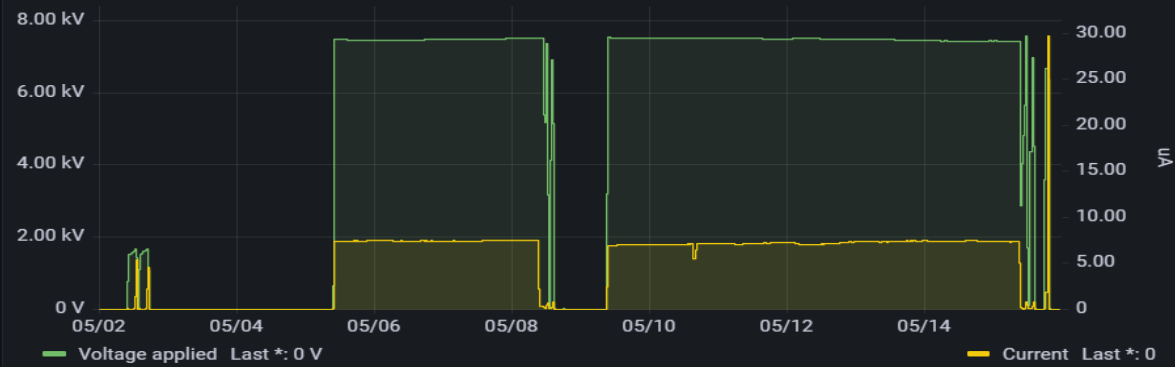


SHiP RPC

HV: 8.8 kV

Current: 100 uA

KODEL-H TOP

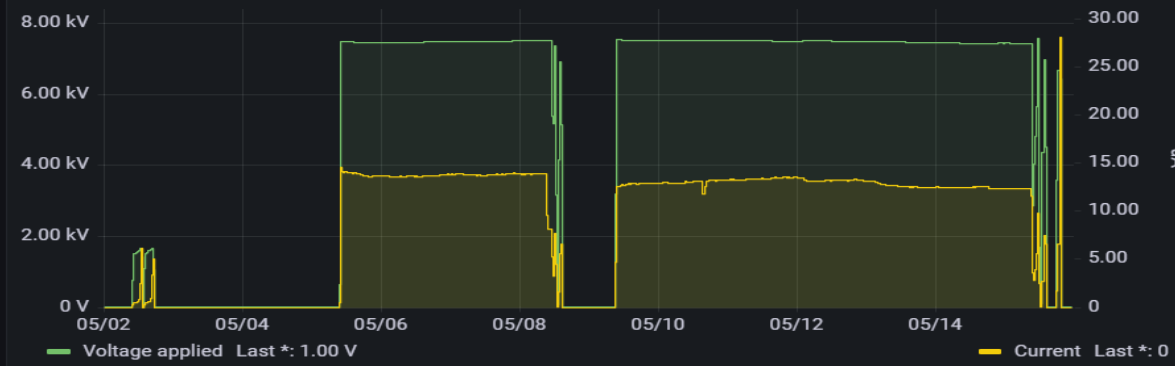


KODEL-H TOP

HV: 7.7 kV

Current: 7 uA

KODEL-H BOT

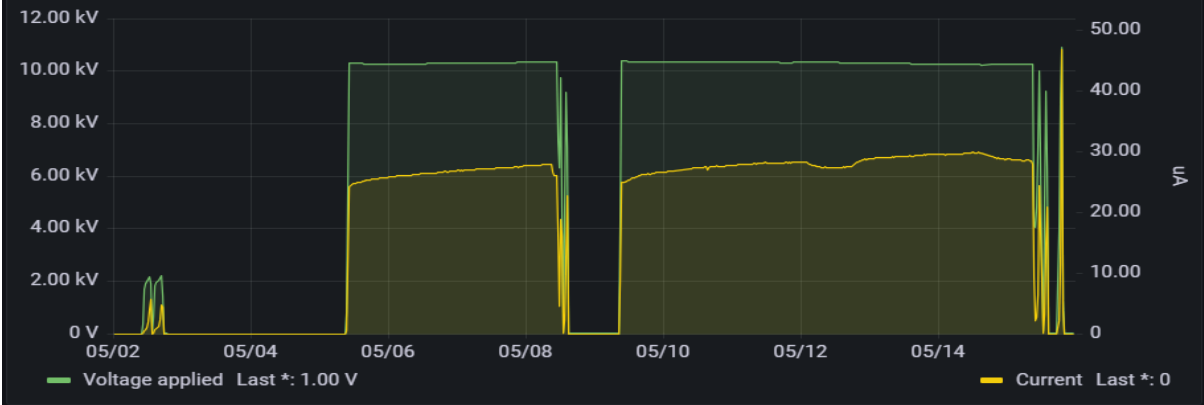


KODEL-H BOT

HV: 7.7 kV

Current: 12-13 uA

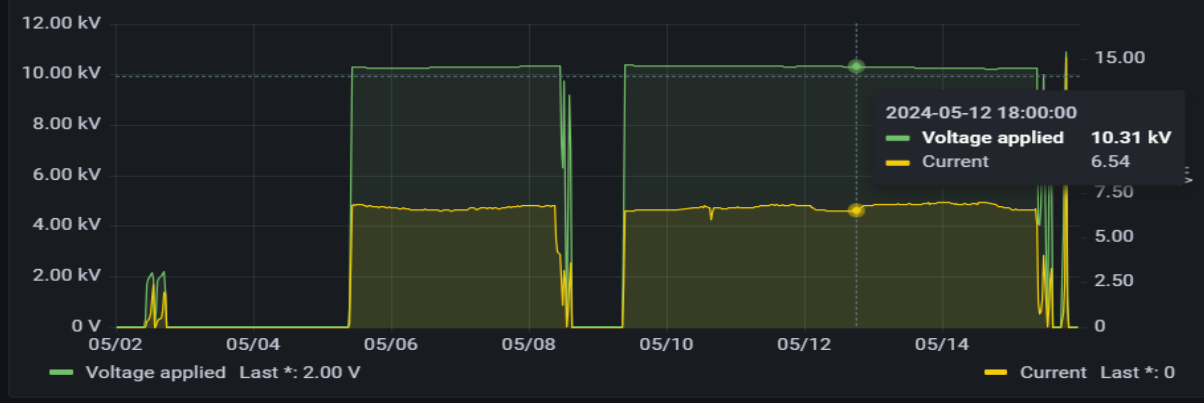
RE1-1-BOT



RE1-1 BOT

HV: 10.6 kV
Current: 26-29 uA

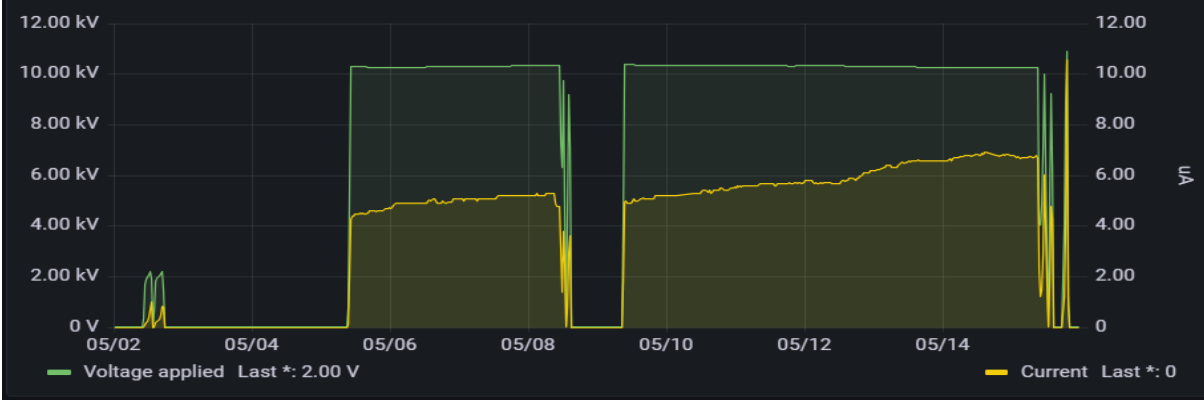
RE1-1-TN



RE1-1 TN

HV: 10.6 kV
Current: 6.5 uA

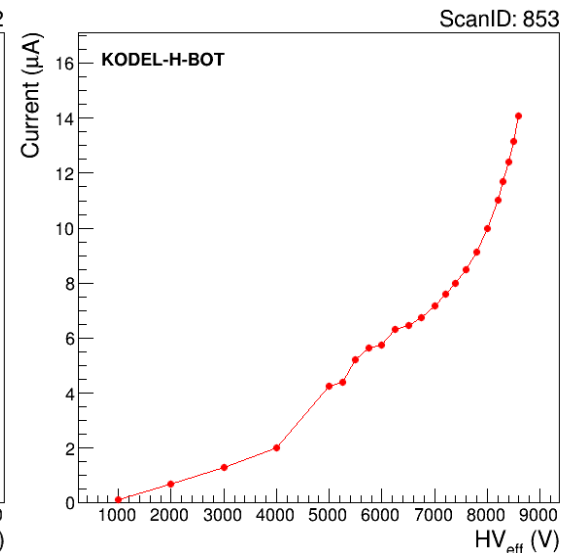
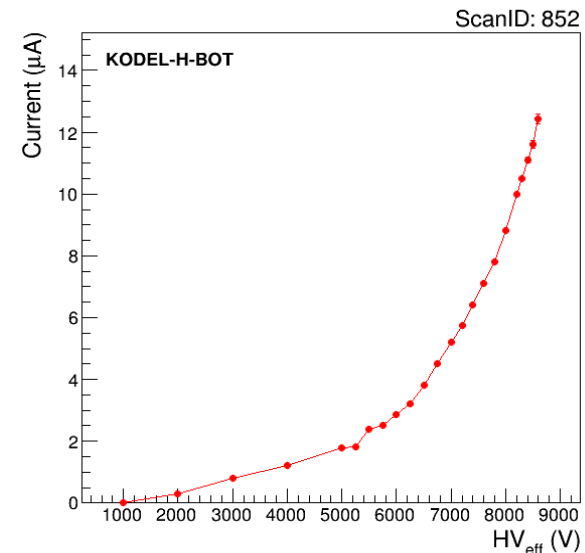
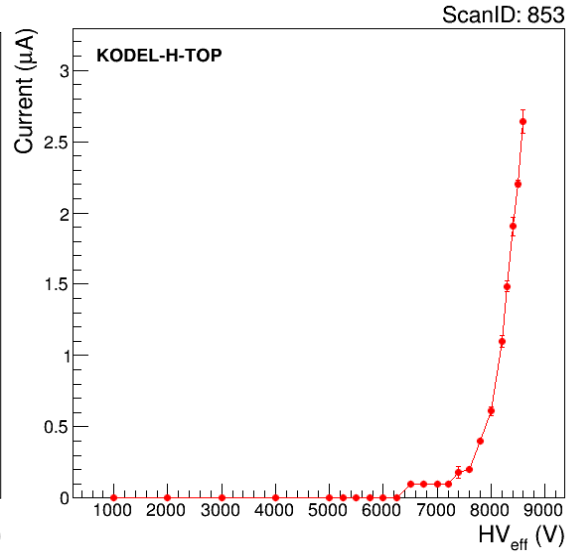
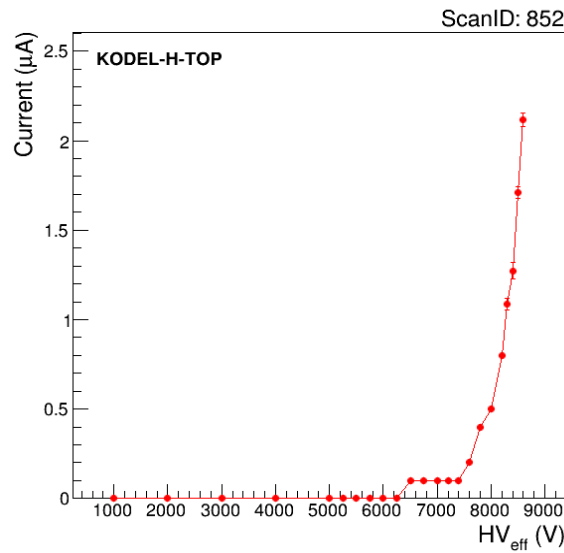
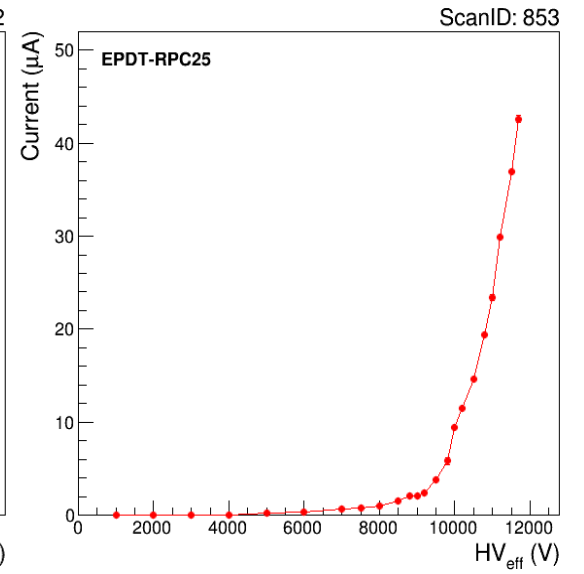
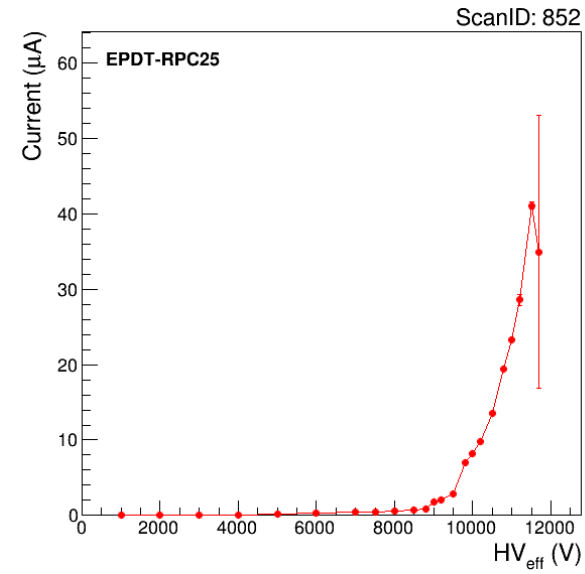
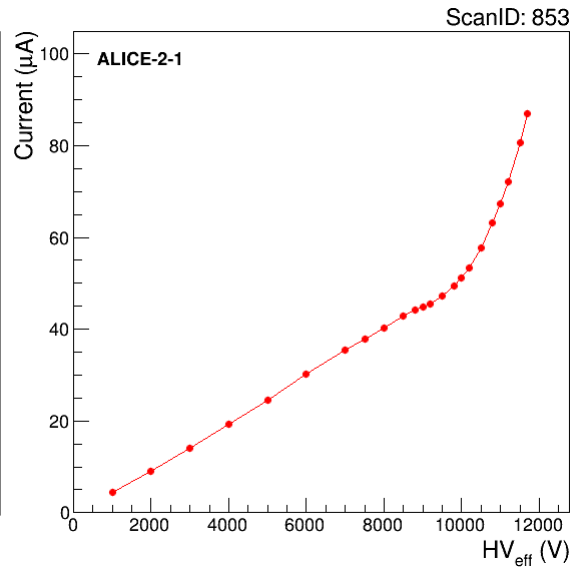
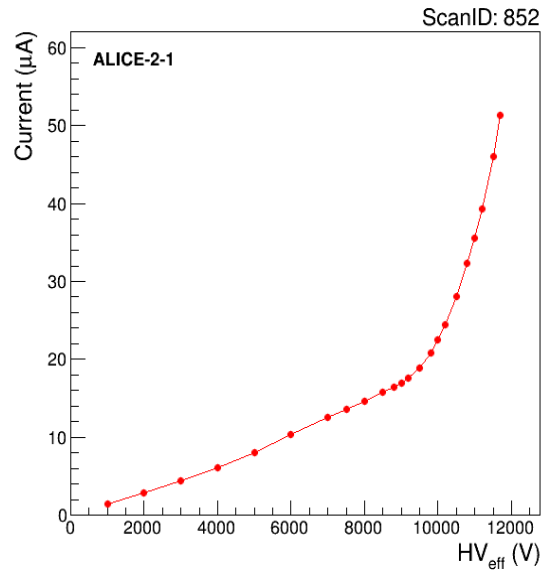
RE1-1-TW



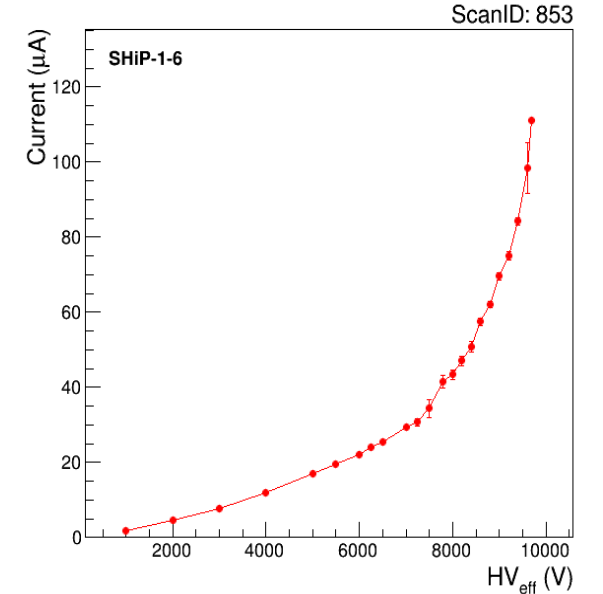
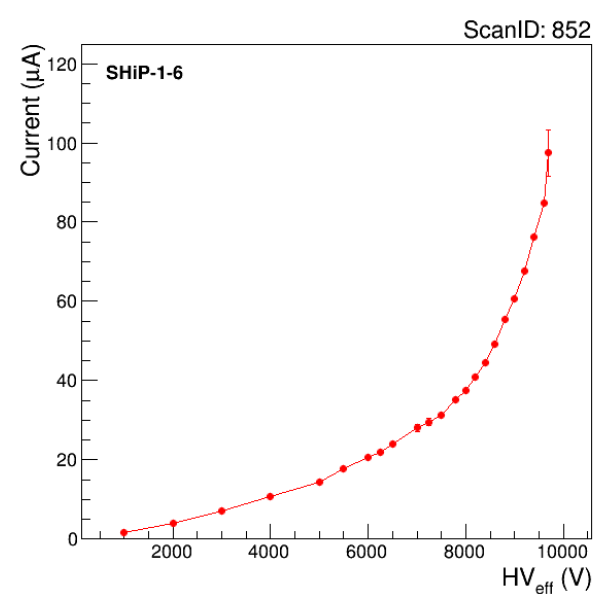
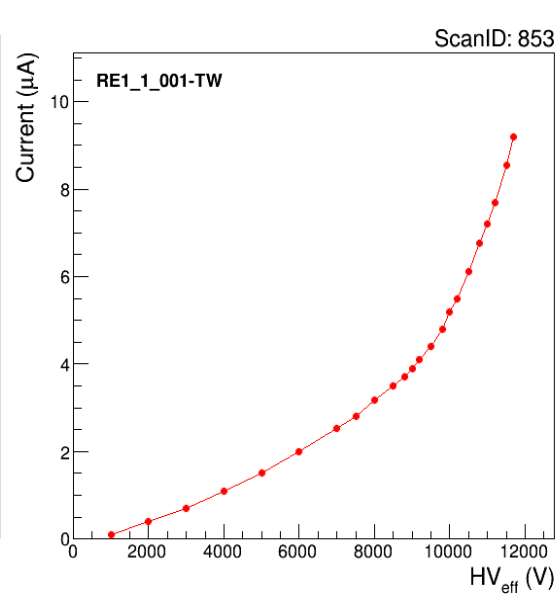
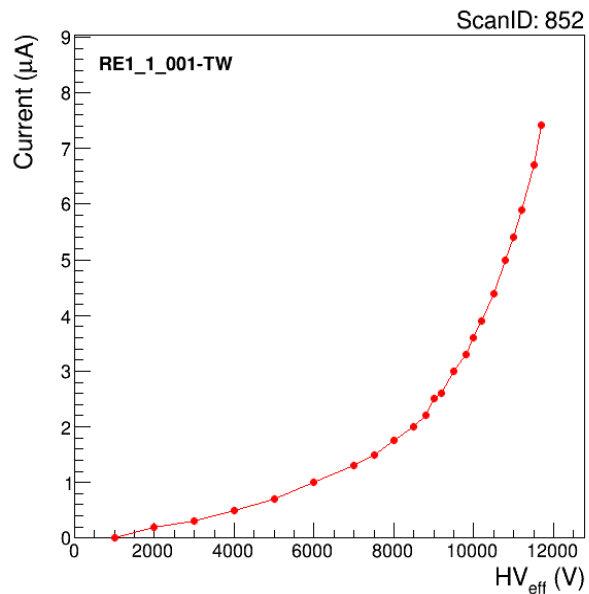
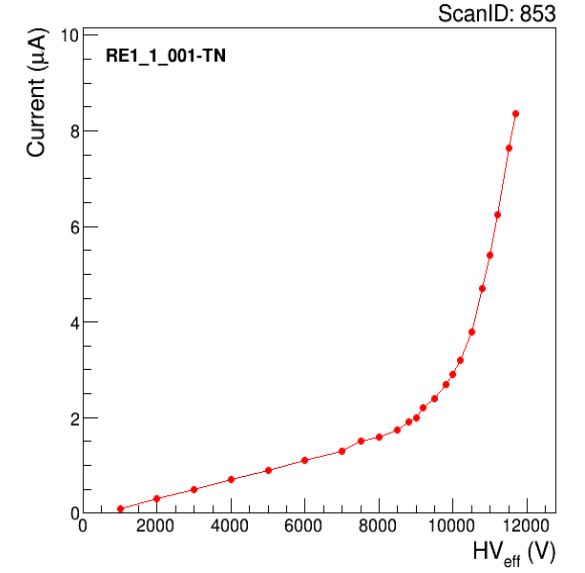
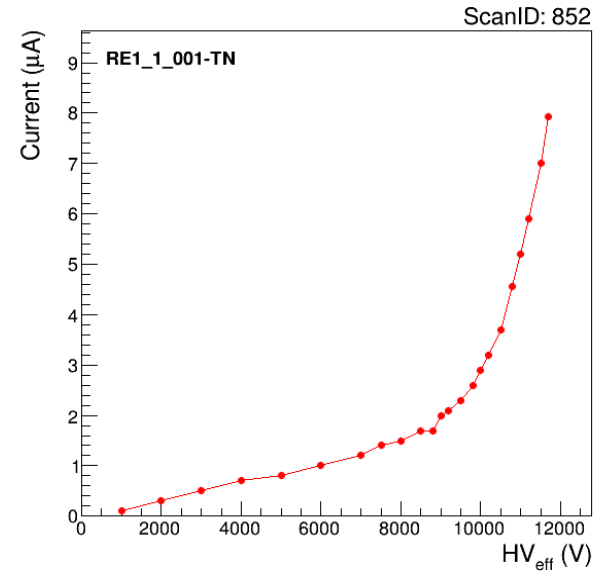
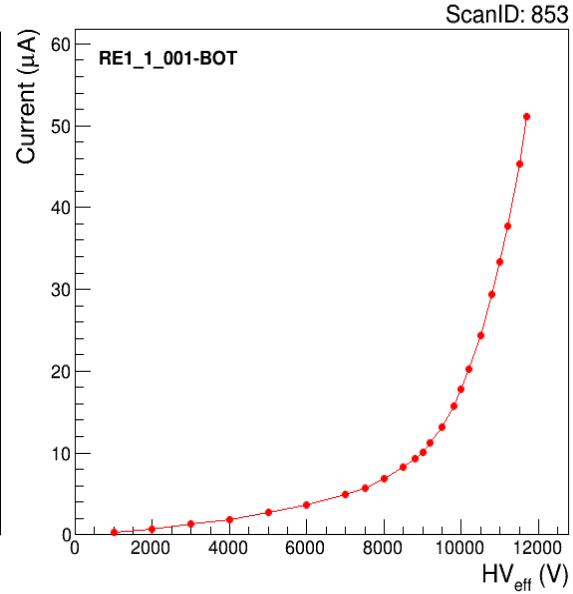
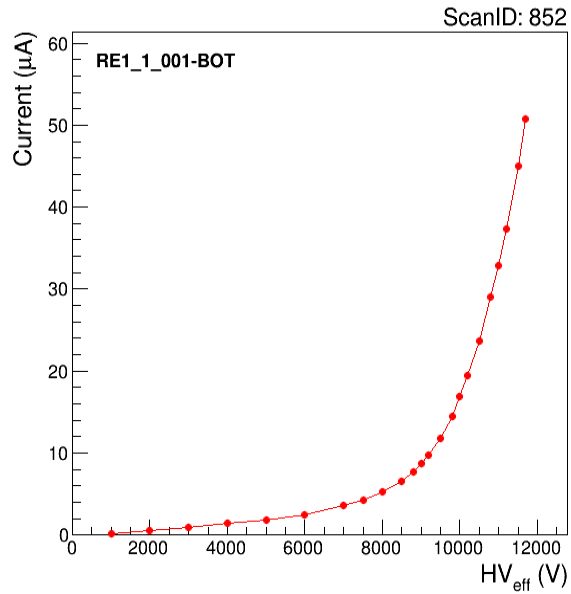
RE1-1 TW

HV: 10.6 kV
Current: 4.5- 6.7 uA

Source off Comparison SCAN ID 852 (8th May) : 853 (15th May)



Source off Comparison



Conclusions:

- ALICE new RPC dark current kept on increasing (both in stability scan as well as Source OFF HV scan).
- RE1-1 TW RPC current increased slightly both in stability scan and source off HV scan.
- RE1-1 BOT RPC current slightly increased in stability scan.
- Slight increase in current for KODEL-H TOP and BOT RPC during source off scan.
- HFO bottle used 2.26 kL.
- Source was found to be in OFF condition between 10 am to 12:15 pm today.