Barbara Liberti and Marco Sessa July 8th, 2025



Istituto Nazionale di Fisica Nucleare

RPC eco-gas at GIF++ Weekly report

Stability run 298 (screenshot updated at Monday afternoon)



• Observed a slight reduction of current, likely due to a ~15 mbar drop in atmospheric pressure over the past three days



Stability run 298 (screenshot updated at Monday afternoon)

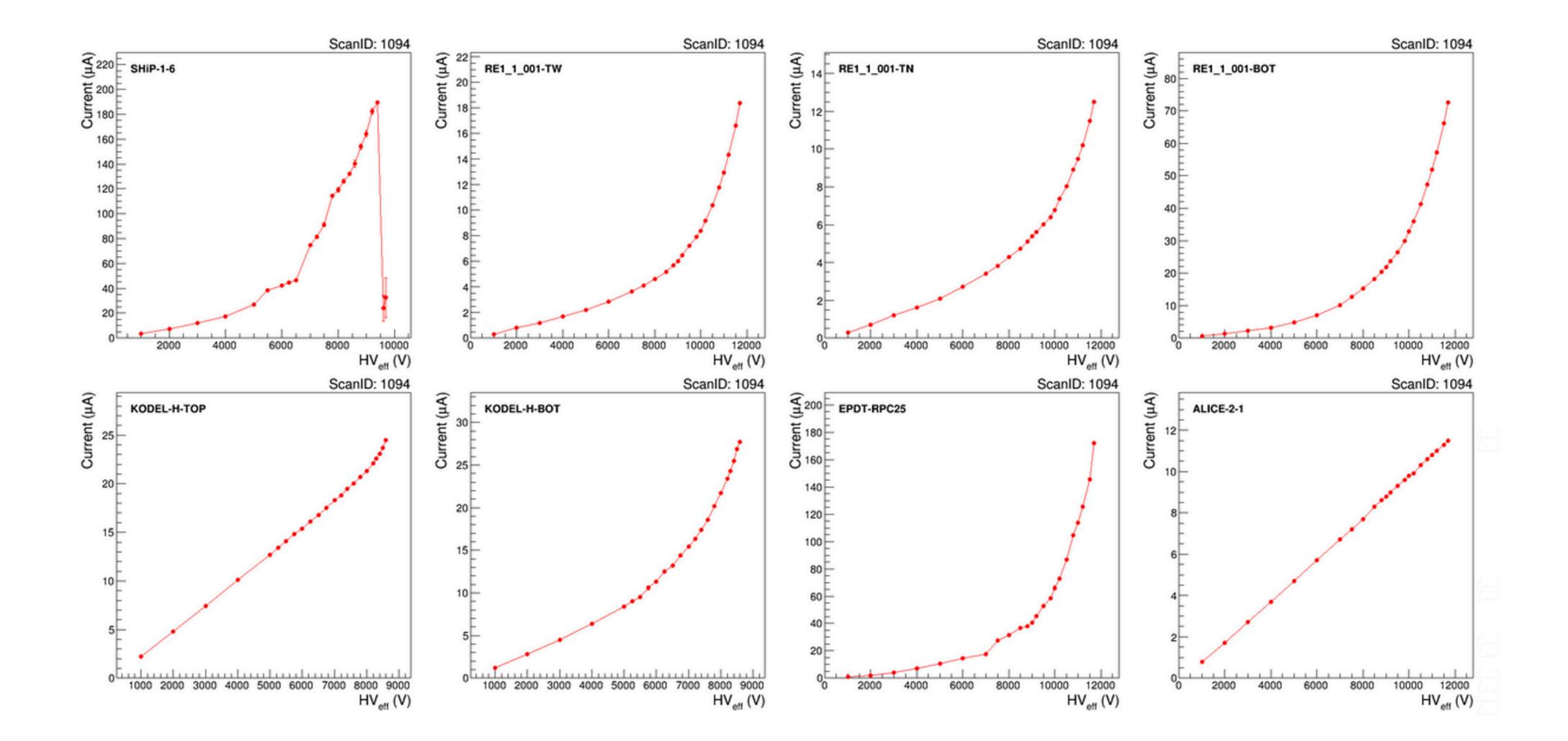


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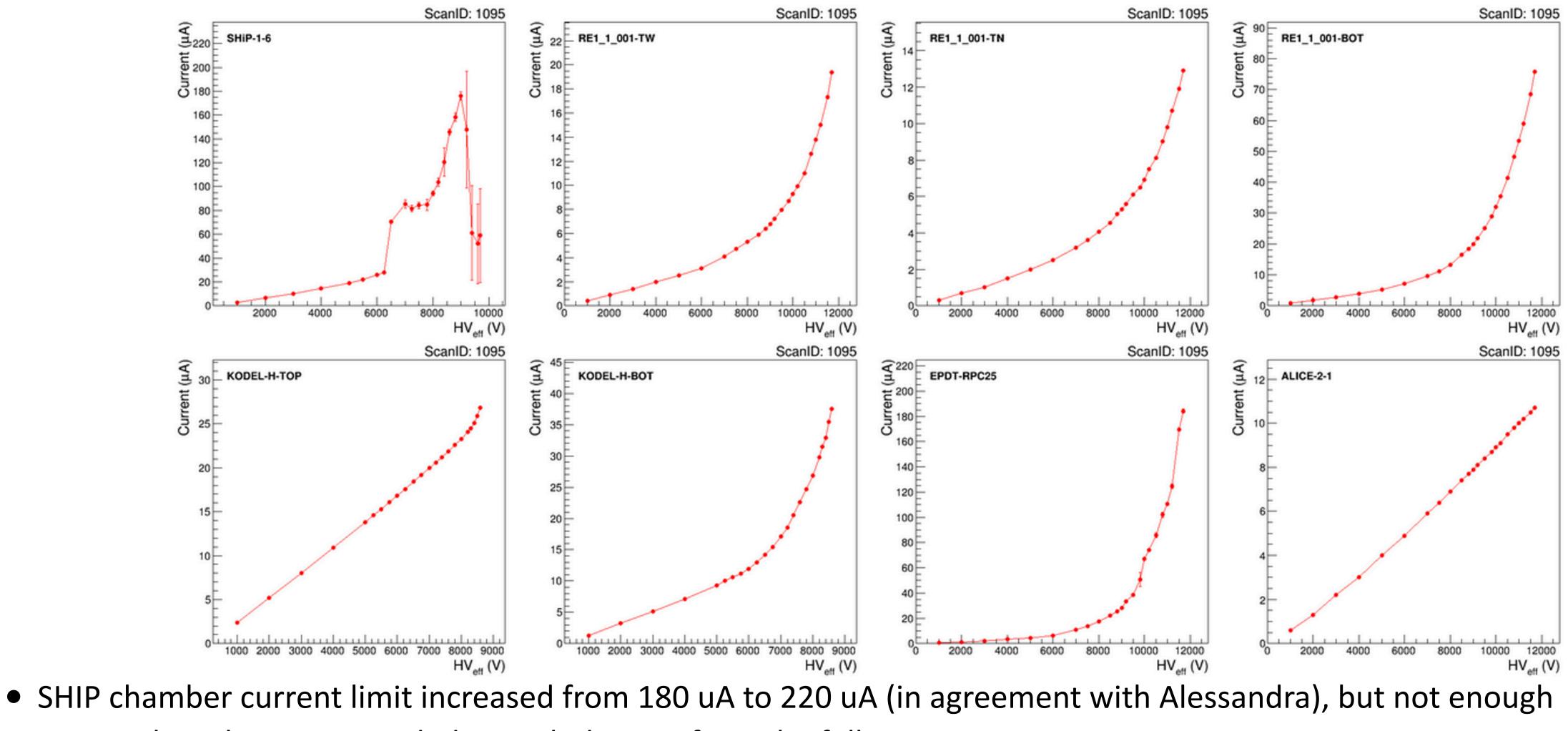




HV scan 1094 (scan from the previous shift)

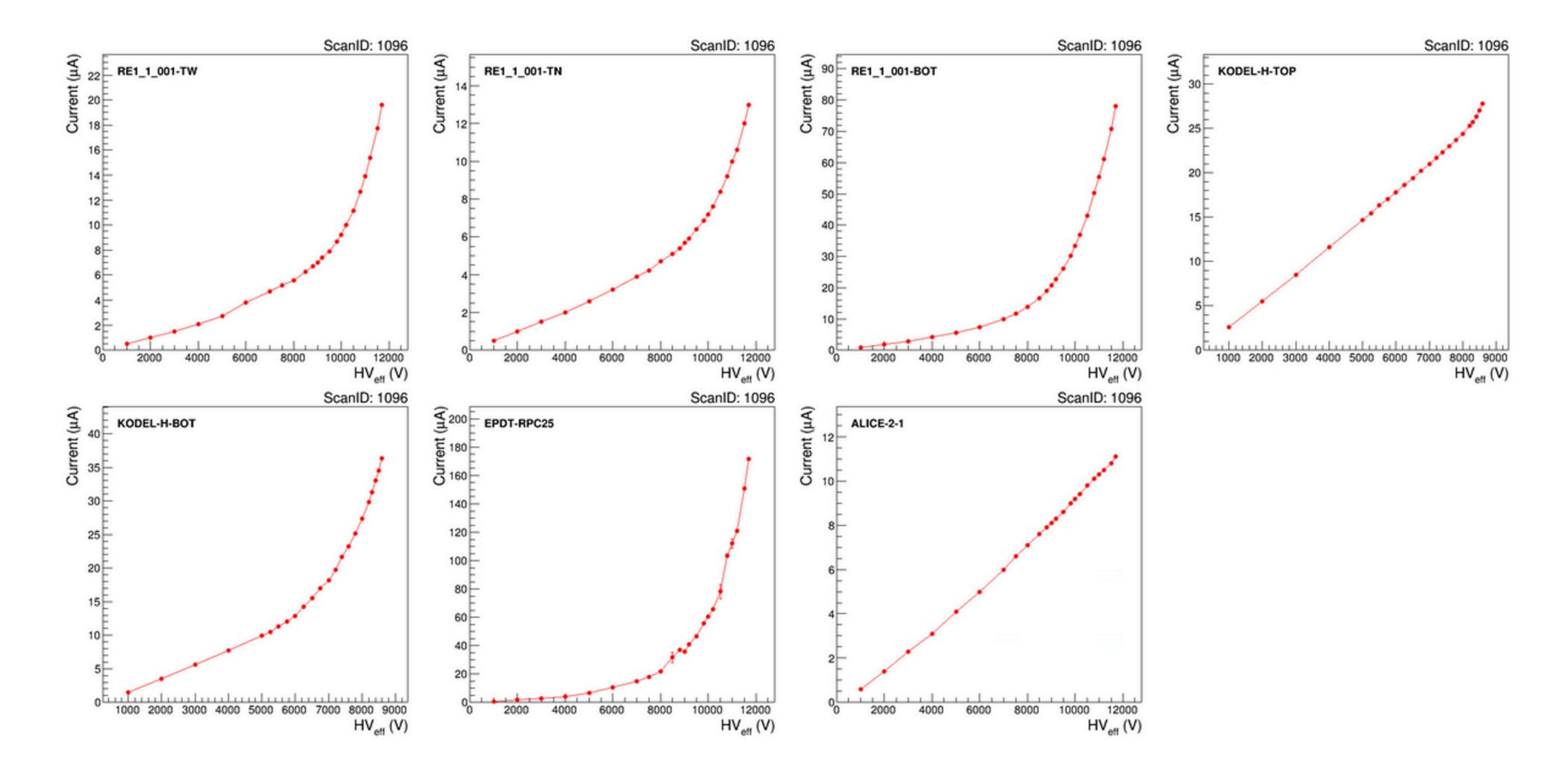


HV scan 1095



- to complete the scan. Decided to exclude SHIP from the following HV scan
- The other chambers show similar behaviour w.r.t. HV scan 1094

HV scan 10956



• SHIP chamber missing here

Conclusions and instructions for the next shifter

- Smooth run in general
- I was not able to fill the checklist document can be fix

HV scan notes:

- for SHIP -> ask to Alessandra if include or not the detector
- For RE11 BOT -> need to change current limit from 60 uA to 80

HVscan run registry

Scan ID	Scan type	Start time	Label	Status	\$ #HV \$
	Select scan type	~	Select label	 Select status 	~
001096 🗗	Current scan	2025-07-02 13:37	ECOGAS2	FINISHED	23

Stability run registry

Run ID	Start time	End time/Last action	Duration					
0298	2025-07-02 22:42	2025-07-07 15:57	4 days, 17 hours, 14 minutes					

		CERN Box	GIFpp checklist .xlsx		×												
		GIFpp checklist - Saved	~							2	Search for	tools, help	o, and more	(Option +	Q)		
	File	File Home Insert Share Page Layout Formulas Data Review View Help Draw															
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	1	ECOGAS															
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		ogger status	<u> </u>	ok	ok	ok	ok		·								
		WebDCS status		ok	ok	ok	ok										
	6	HV data is logged		ok	ok	ok	ok										
	7	Grafana alarms - check that th	he heart icon on the panels is green	ok	ok	ok	ok										
	_	MIXER															
		Gas mixture		ECO2	ECO2	ECO2	ECO2										
		Check gas mixture percentage		4	4	4	4		1	Exce	ы						
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	_	By pass valve status:								+	Give Feed	dback to M	licrosoft				
		Humidifer Wet MFC:		11	10	10.75	10.75			1							
		Dew point:		4.01	3.02	3.63	3.28			1							ОК
		GENERAL								1							
		Upstream ABS:		2.2	2.2	2.2	2.2			Constanting of the local division of the loc							

Reference runs

Comment	Status
Starting new stability run - Source ON - ECO2 gas mixture	ONGOING

