

News from Ferrara

Marco Guarise

University of Ferrara and INFN

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HPK Italy

We started tests on HPK Italian lot
Received:

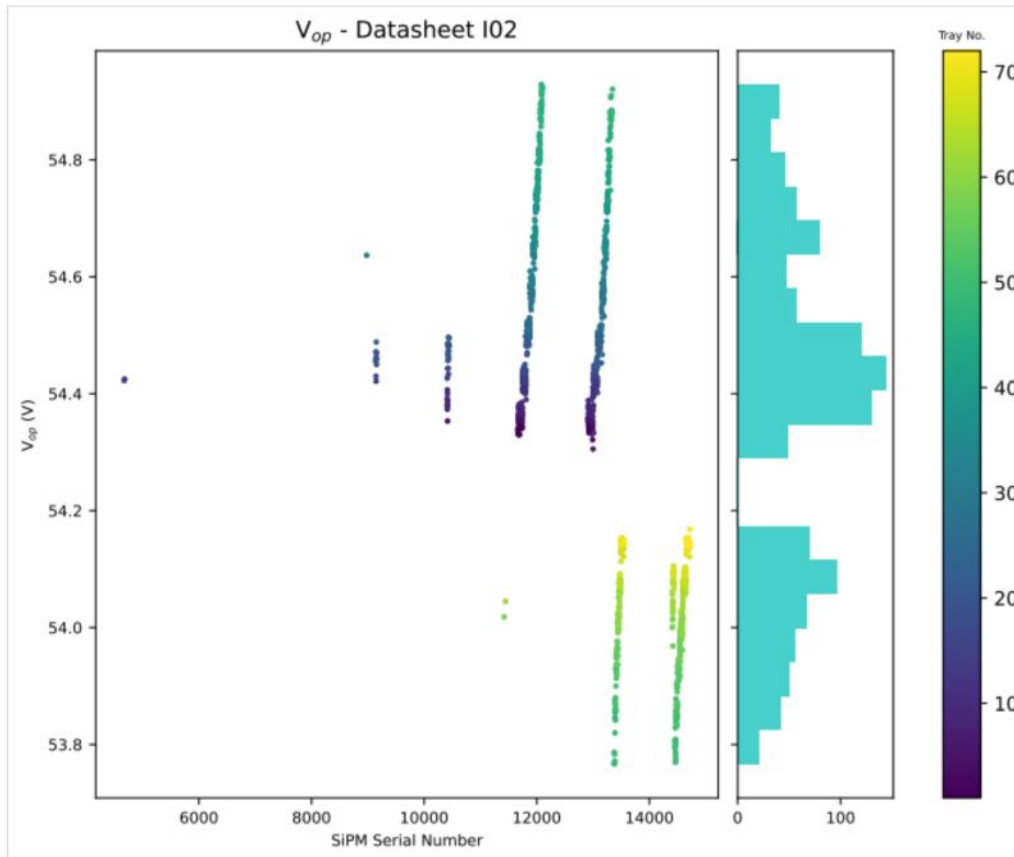
- Box 5
 - Box 6
- both from delivery 2

07/19/23	2	4	1-24	400	16/07/24	Milano	--	--
	2	5	25-48	400	27/06/24	Ferrara	28/06/24	BRT 89001453798
	2	6	49-72	400	27/06/24	Ferrara	28/06/24	BRT 89001453798
09/20/23	3	7	1-24	400	26/08/24	Prague	29/08/24	IIPS 1766A73Y6898721

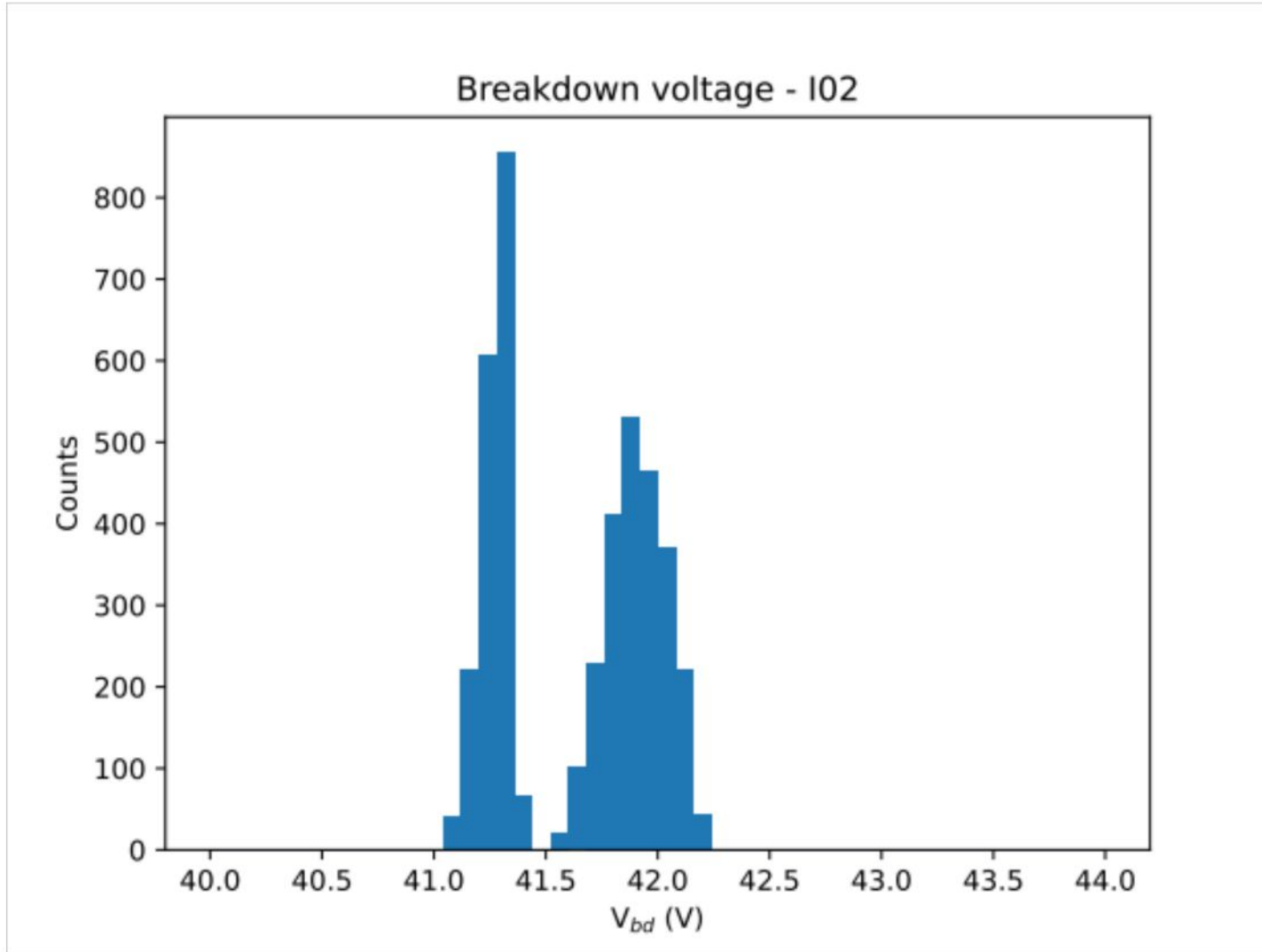
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Box 5:

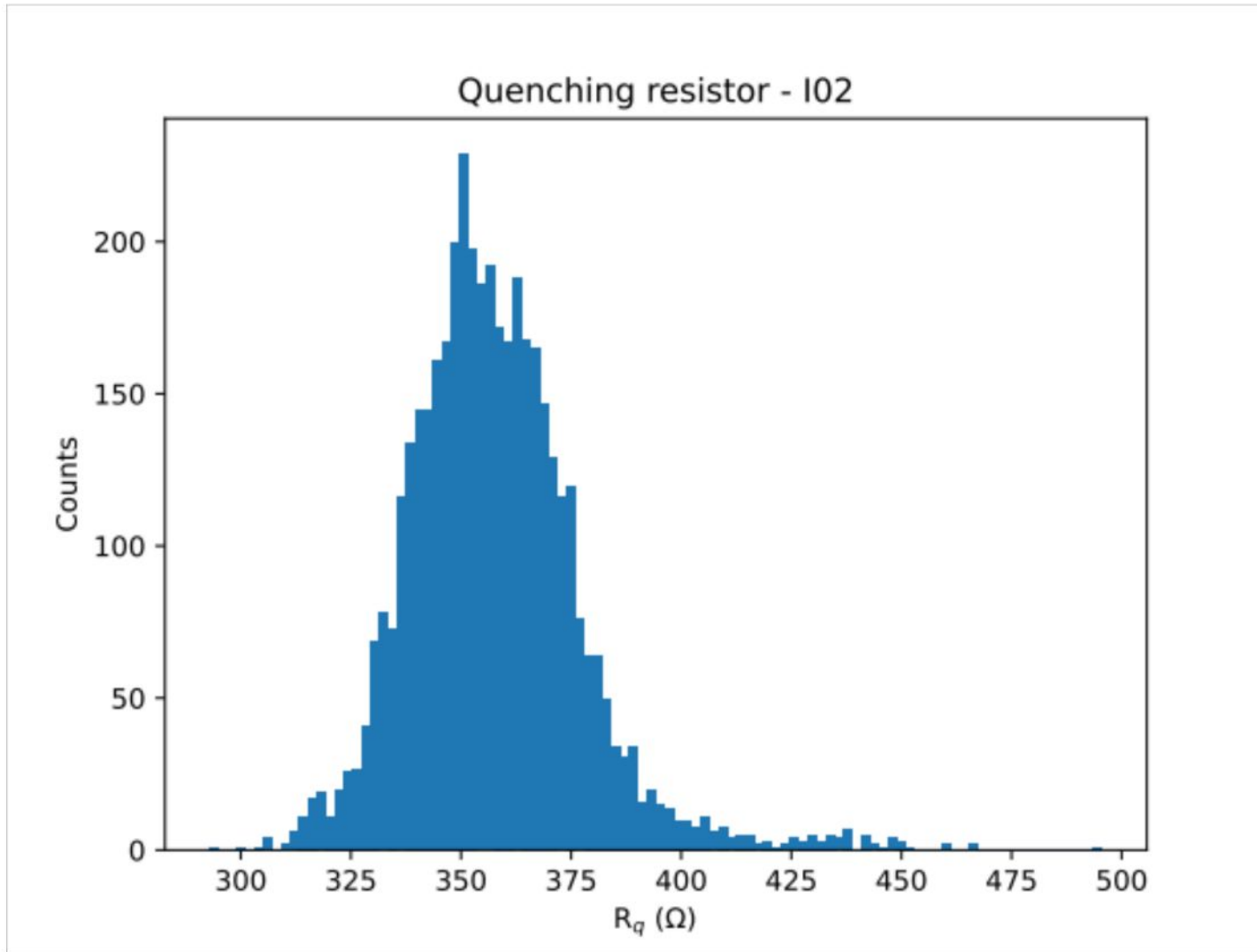
- Results similar to Spain lot
- No strange SiPM found
- All good



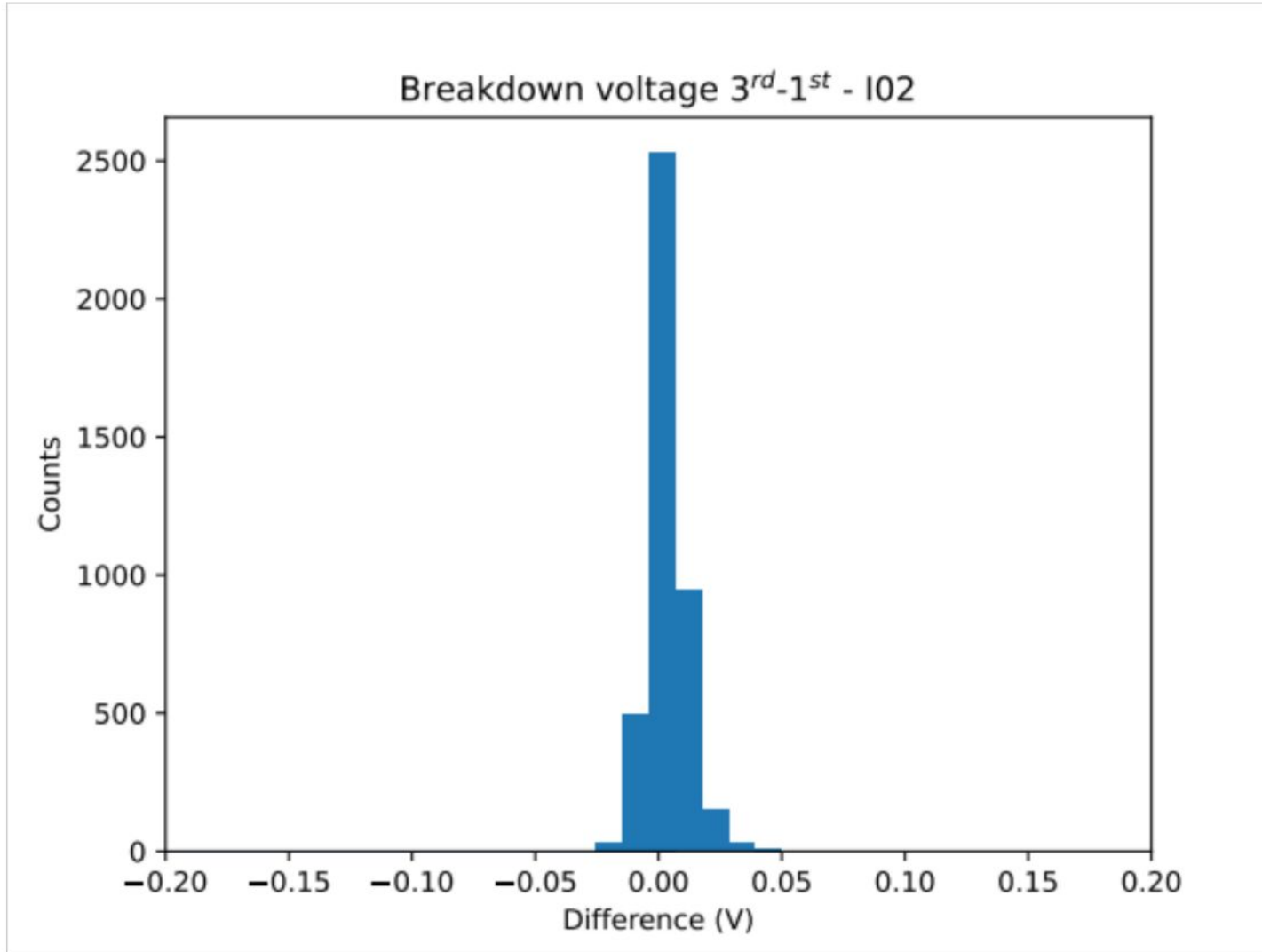
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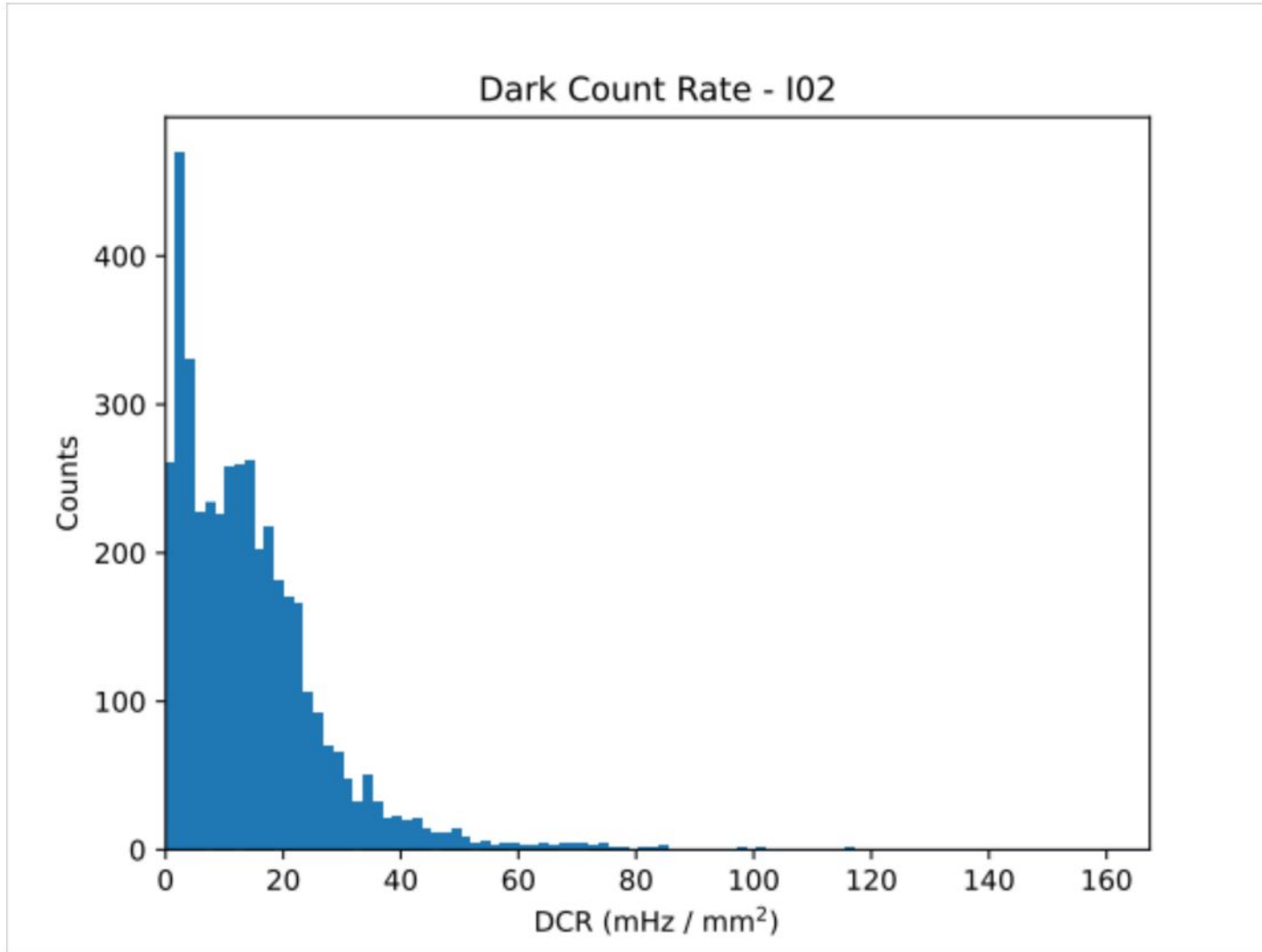
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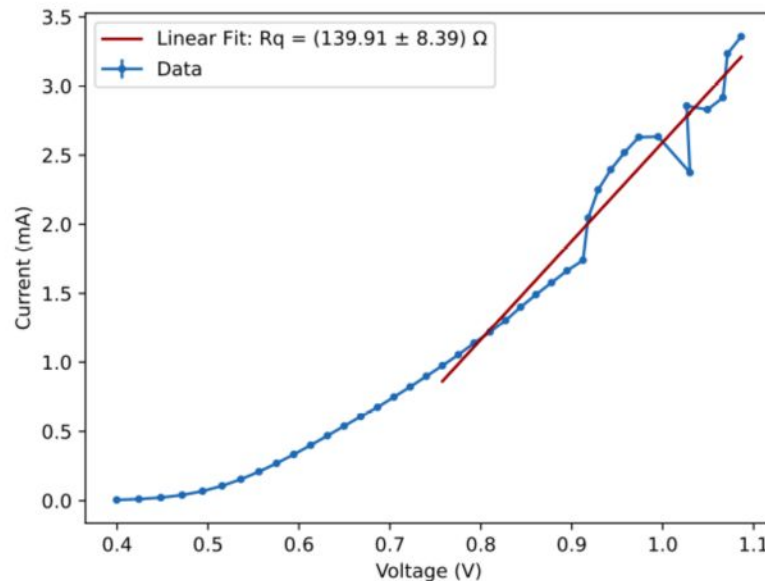


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Box 6:

We started test but some issues happened:

- Tray 52 board n.13415
During the tests (starting from IV at room) a SiPM shown a strange behaviour (signal present-missing): it seems a bad electrical contact!

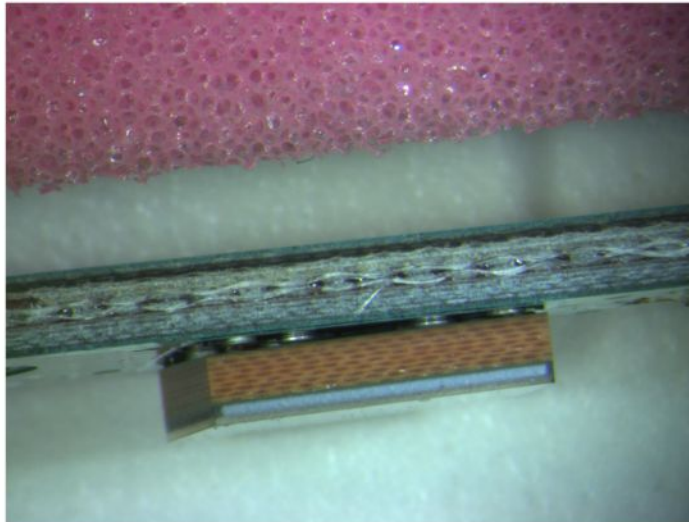


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Box 6:

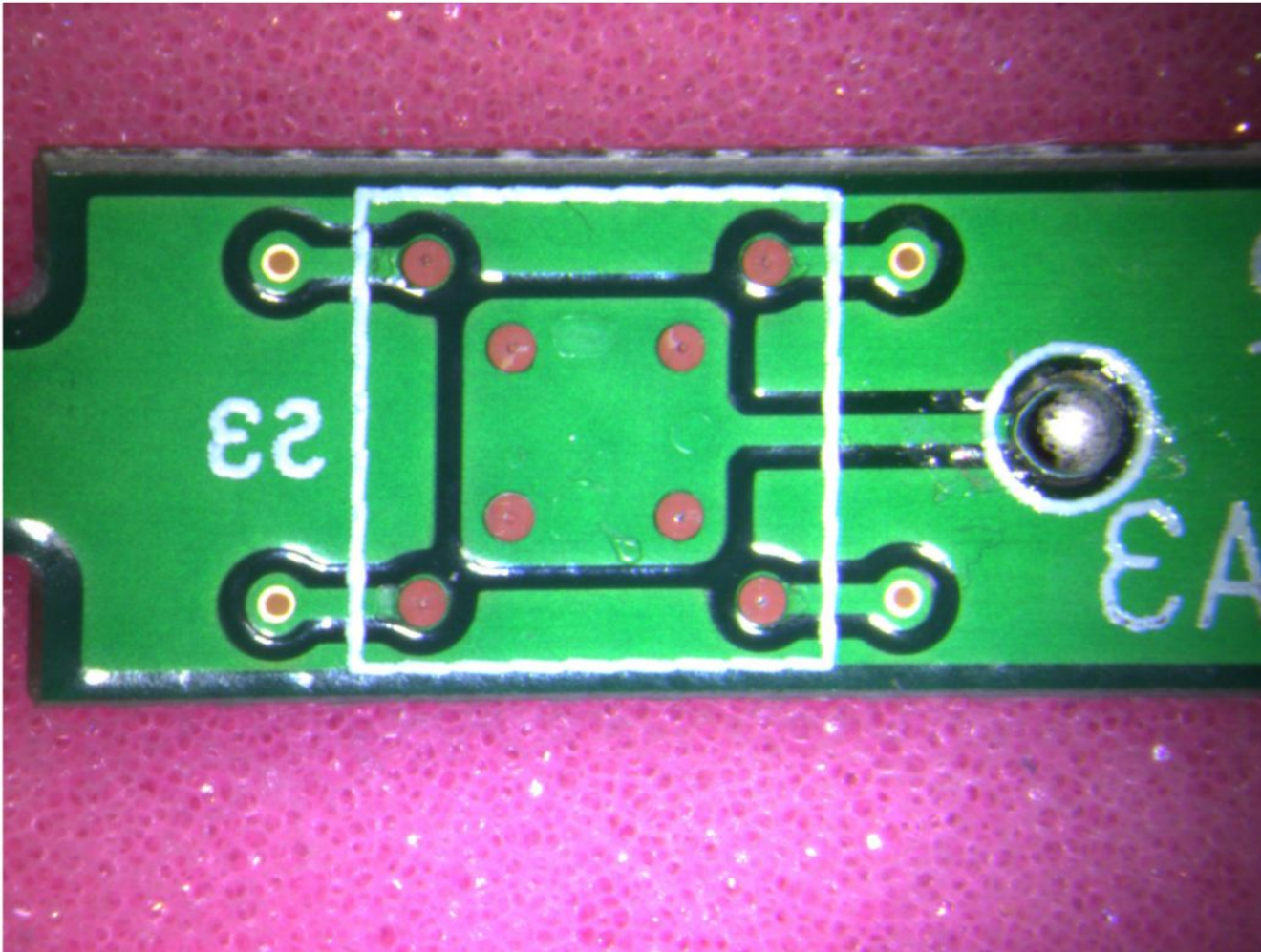
We started test but some issues happened:

- After measurements and thermal cycles the SiPM looked not well attached at the board and simply moving it, it detached from the board.
- Also the next SiPM was strange (see fig1) and detached after moving it with the finger (very low pressure)



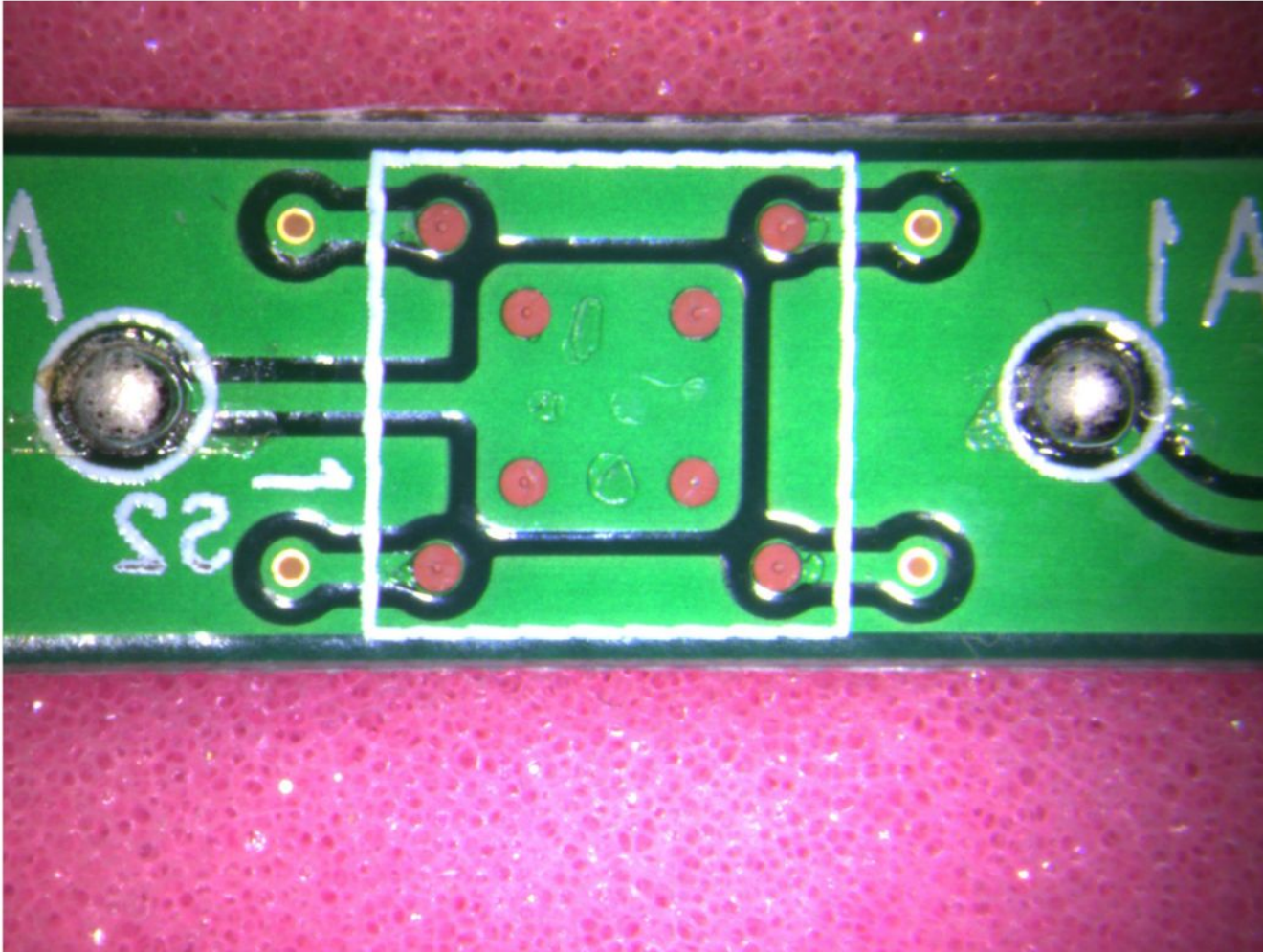
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- Box 6 Tray 52 board n.13415



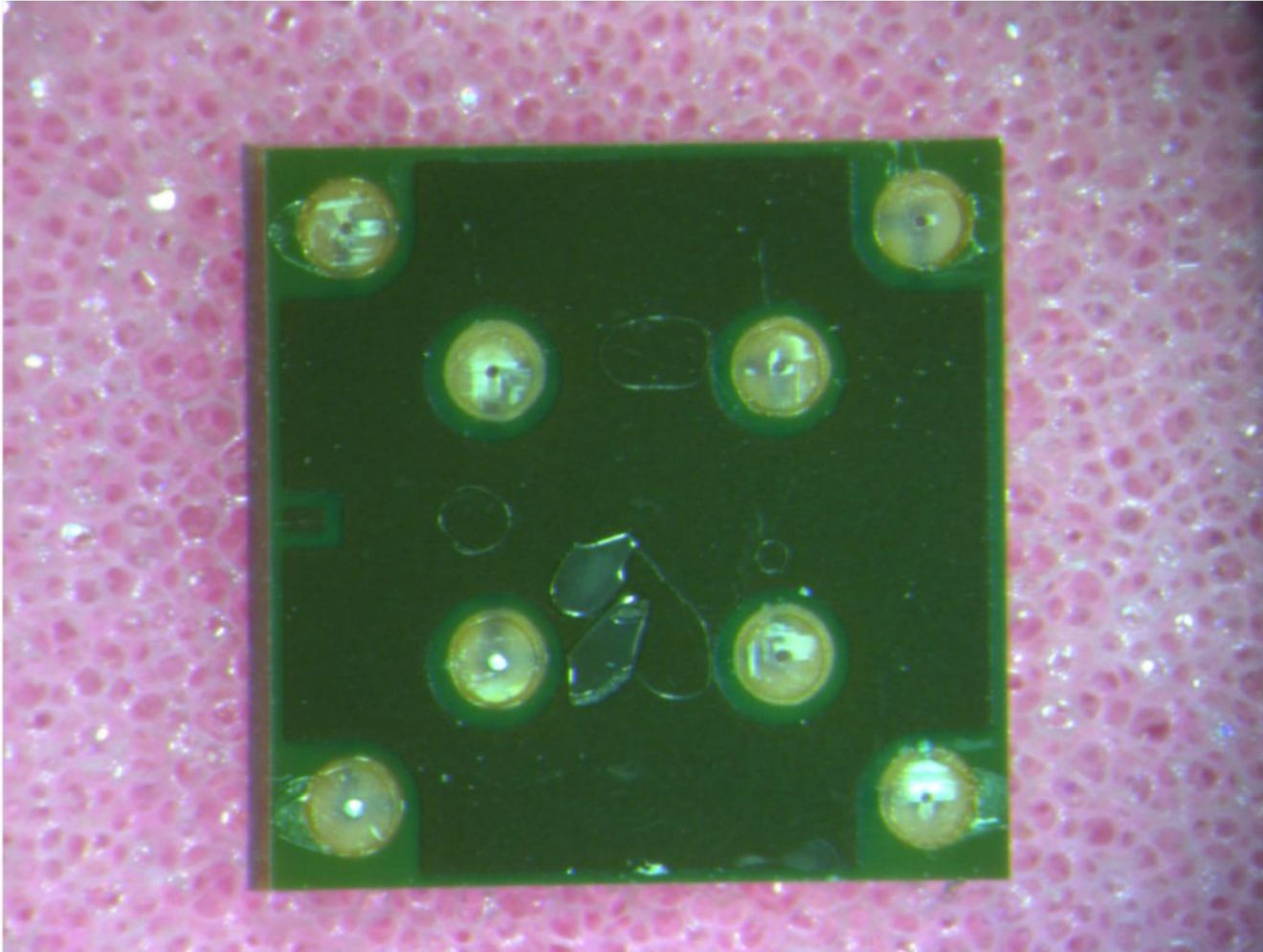
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- Box 6 Tray 52 board n.13415



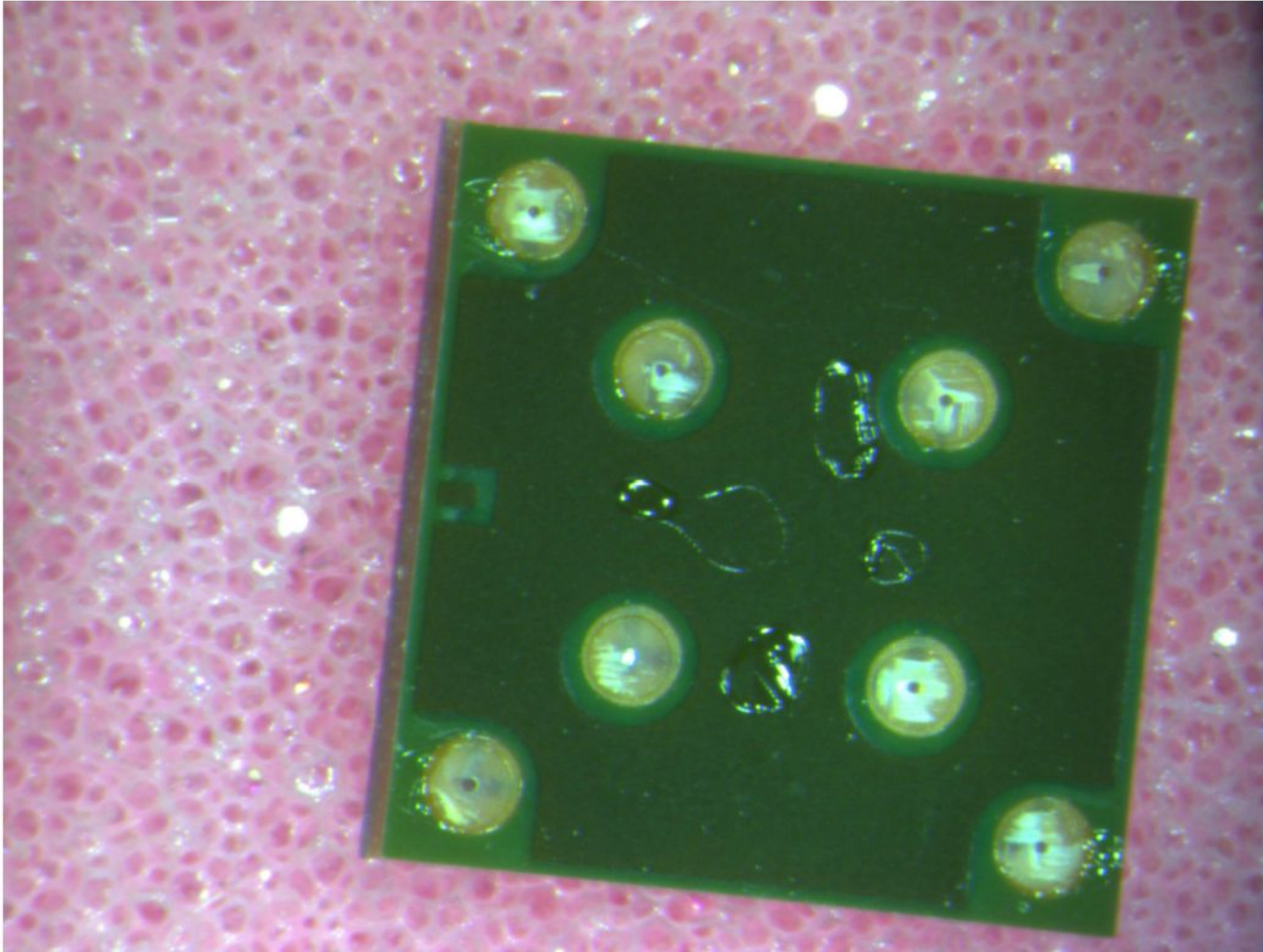
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- Box 6 Tray 52 board n.13415



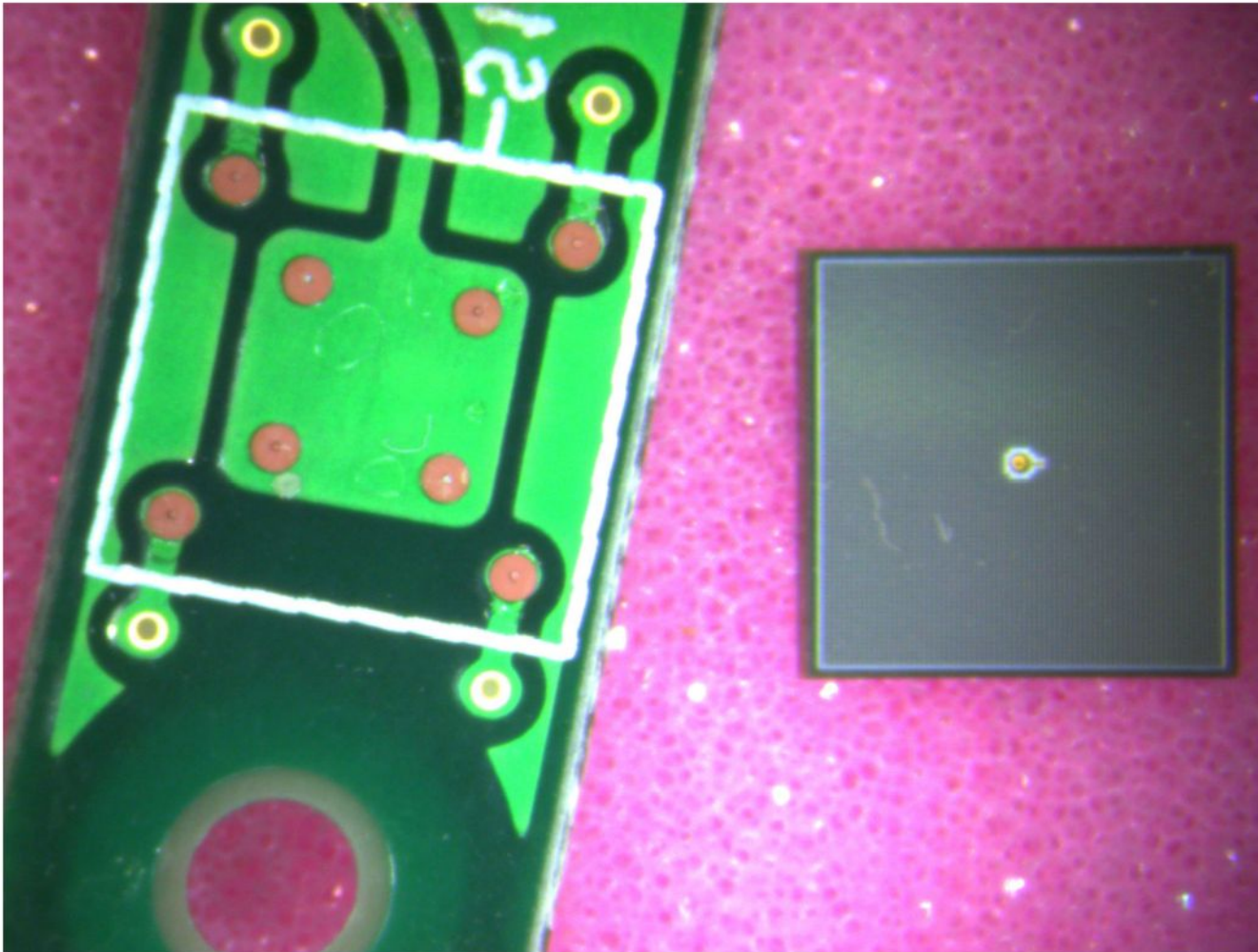
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- Box 6 Tray 52 board n.13415



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- Box 6 Tray 61 board n.13475



Conclusions

- Tested 600 boards (400 from box5 & 200 from box6)
- Box 6 Tray 52 board n.13415: 2 SiPM detached: one strange results one good results during measurements
- Box 6 tray 61 board n.13475: 1 SiPM detached: strange results during measurements
- Looking at the picture it seems that soldering material is absent/very poor?
- We place the SiPM detached in the tray and re-closed the gray bags
- We marked these sensors in the database tables as “detached”