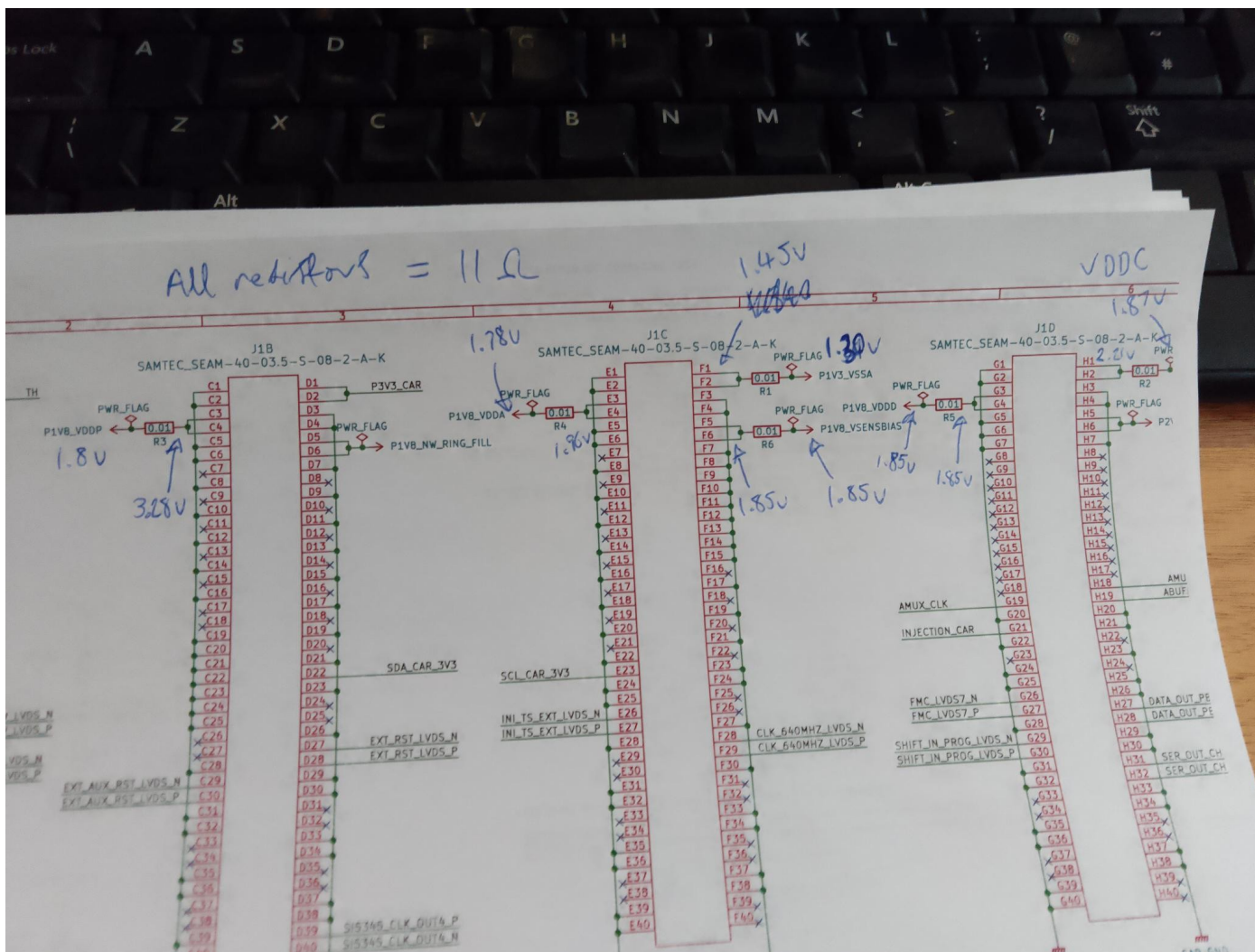




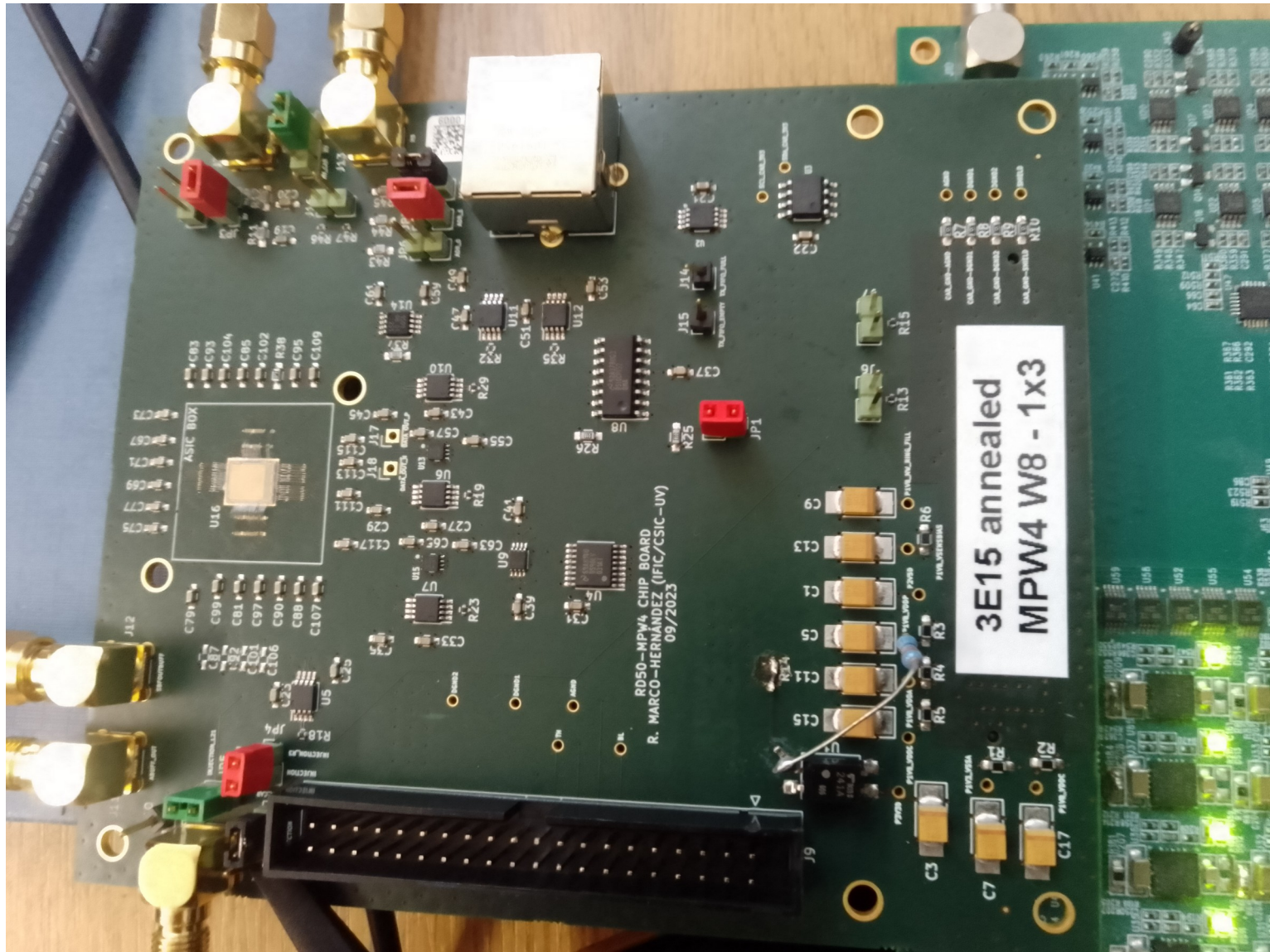
RD50-MPW4 Measurements - update

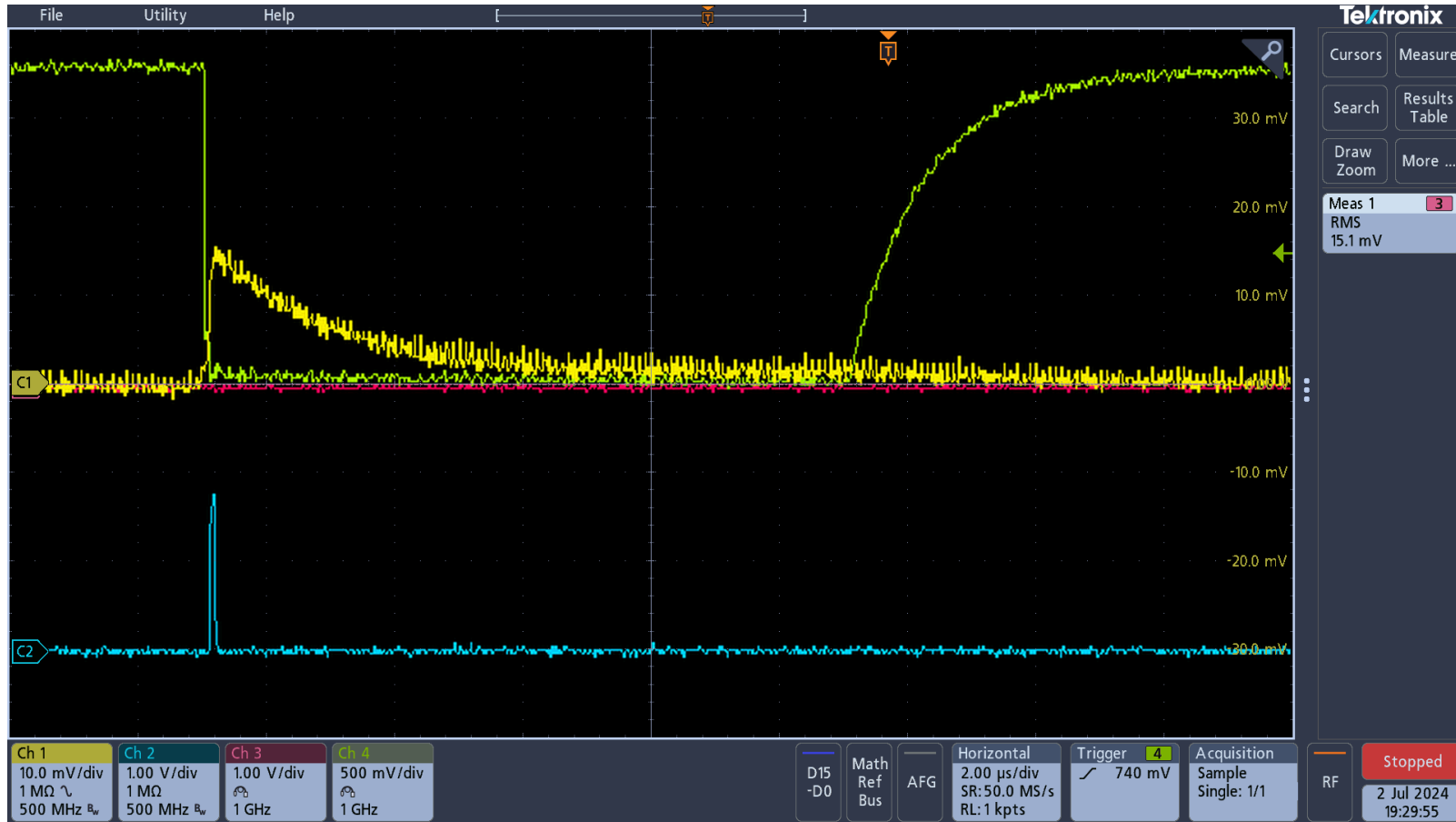
11/07/24

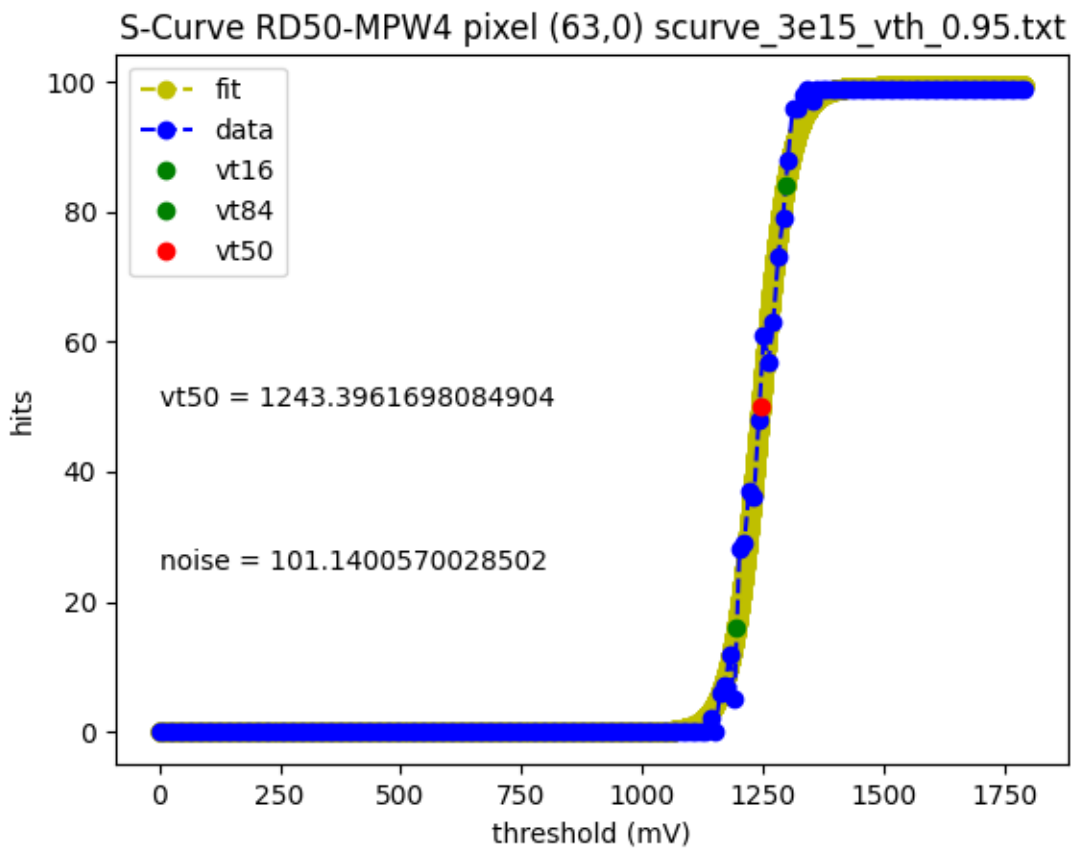


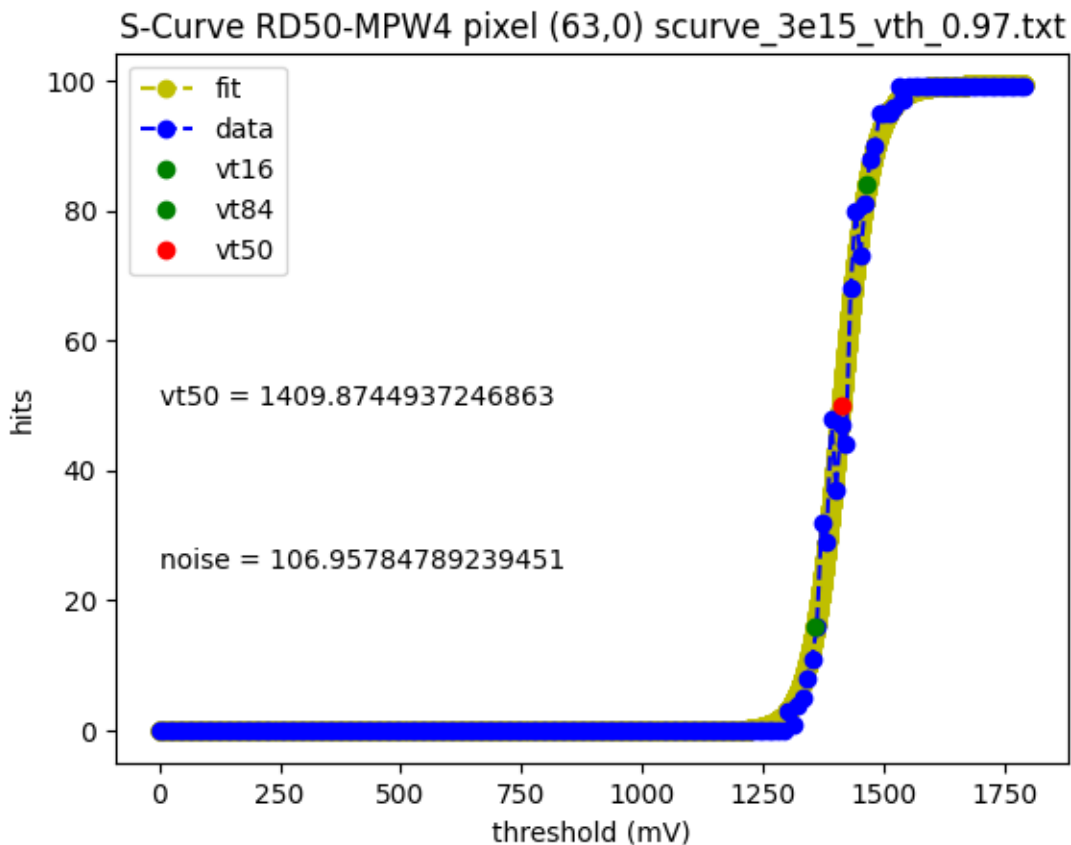


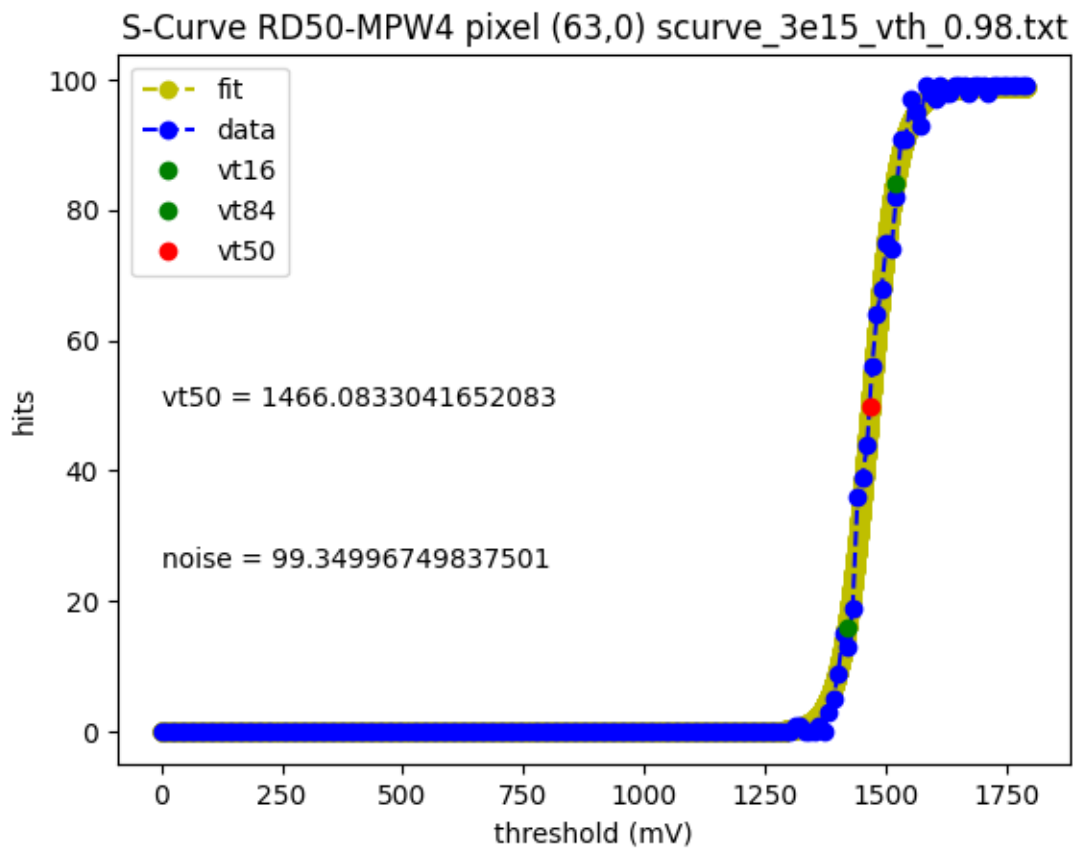
	A	B	C	D	E	F	G	H	I	J	K
1	voltage	vin	vout	vdiff	current	power		chip length mm	chip width mm	chip area	
2											
3	vddc	2.21	1.87		0.34	0.030909091	0.0578		5.36	6.3	33.768
4	vdda	1.96	1.78		0.18	0.016363636	0.02912727				
5	vssa	1.45	1.3		0.15	0.013636364	0.01772727				
6	vddp	3.28	1.8		1.48	0.134545455	0.24218182				
7	vsensbias	1.85	1.85		0	0	0	chip length (no periphery) mm	chip width (no periphery) mm	chip area	
8	vddd	1.85	1.85		0	0	0				
9								5.36	4.9	26.264	
10											
11						total power	0.34683636				
12											
13						power/mm2	0.01027116				
14											
15						total power without digital periphery	0.10465455				
16											
17						power/mm2 without digital periphery	0.00398471				
18											
19											
20											

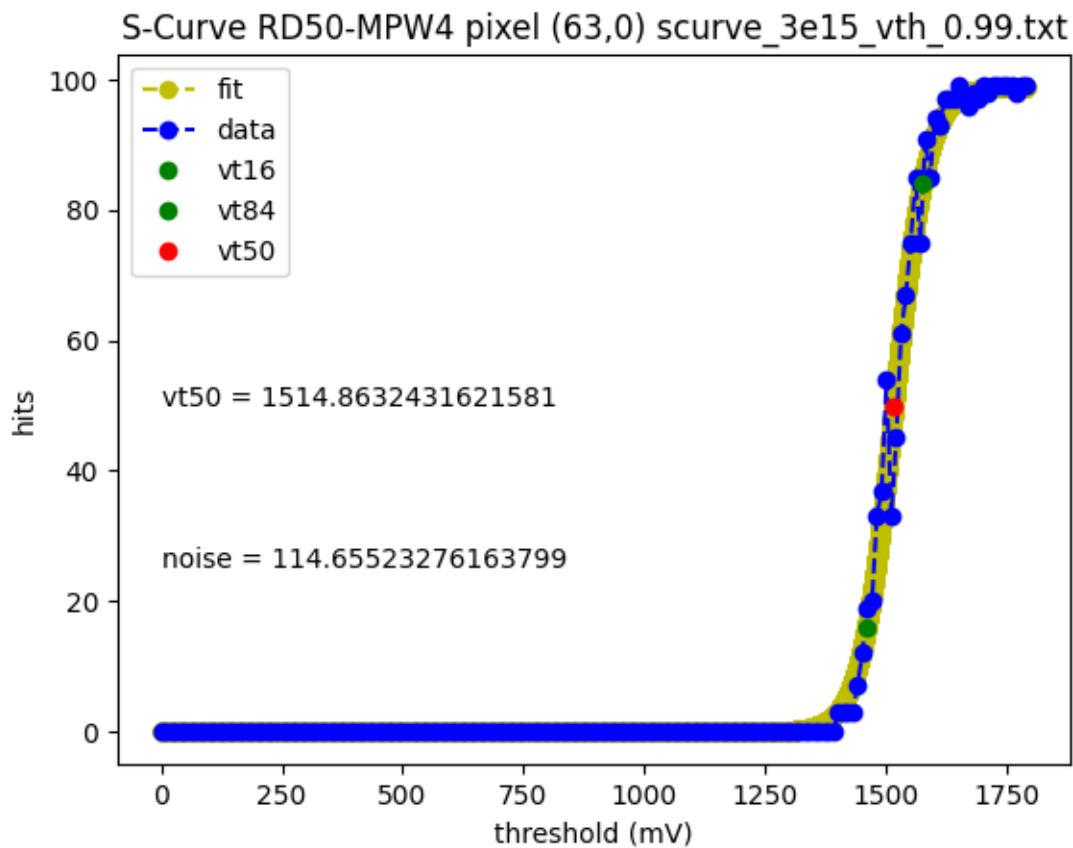














- 3e15 chip alive
 - Chip programmable
 - Digital section working and responding
 - S-curves show large reduction in gain
 - Leakage current increased to mA range ($\sim 1.2\text{mA}$ @ -100V)
- Further measurements at different HV planned (including source measurements)