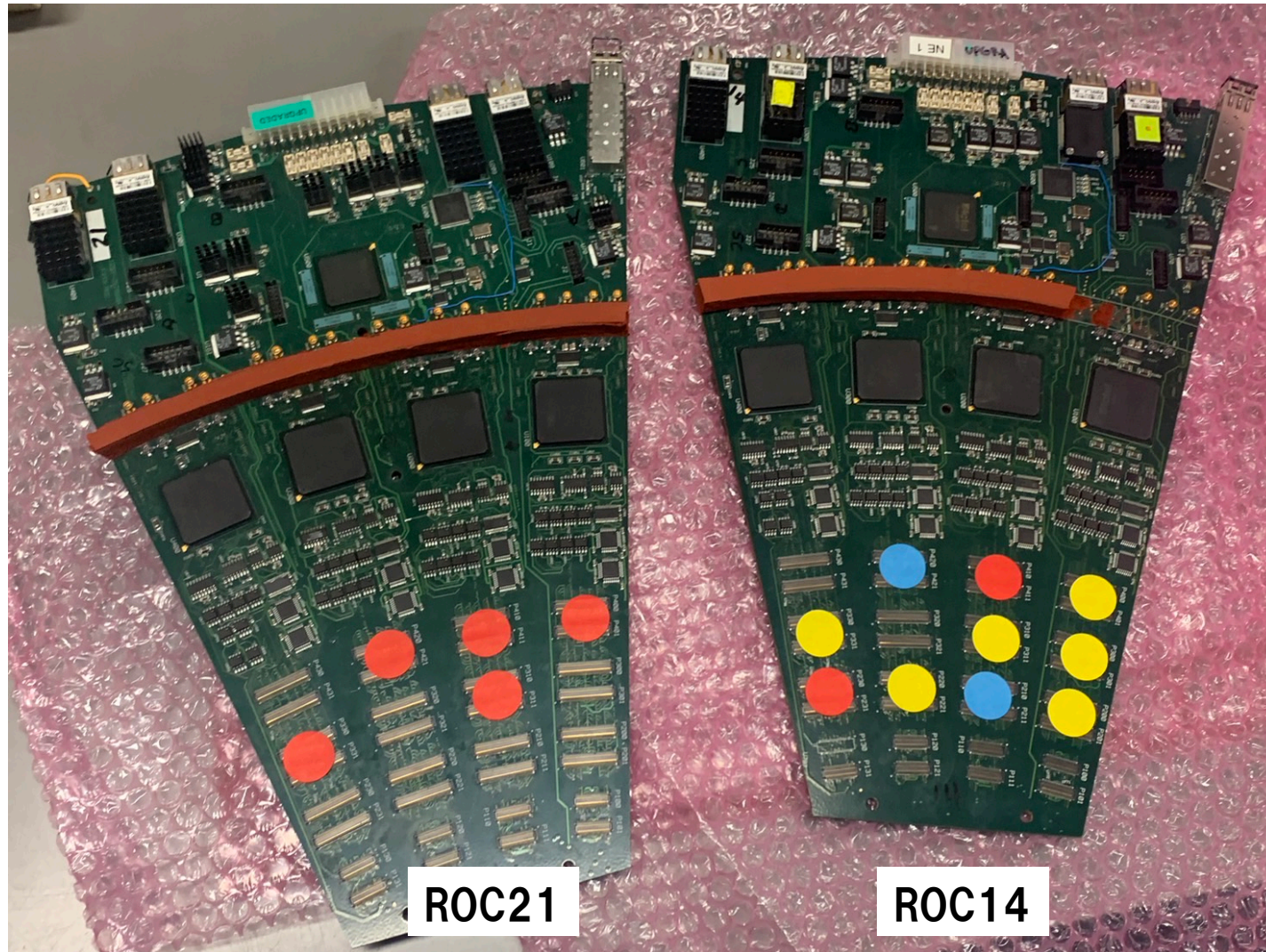


キャリブレーションテスト (20230627)



青→問題なし
赤→問題あり
黄→中間

以前の状態

	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3
1												
2												
3												
4												
5												
6												
7												
8												
9	R	R	R									
10							R	R	R			
11			R									
12					R		R					
13							R			R	R	R
14										R		
15		R	R								F	
16										F	F	
17	R									F	F	
18						R	F			R	R	
19	R		R	R		R		R		R	R	
20	R		R	R	R	F				R	R	R
21		R	R		H	R	H			R	H	
22					R		H	R	R			
23				C	C	C						
24												
25												

Previous Result

ROC14

A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3
Blue	Yellow	Yellow	Blue	Blue	Yellow	Yellow	Blue	Blue	Yellow	Yellow	Yellow

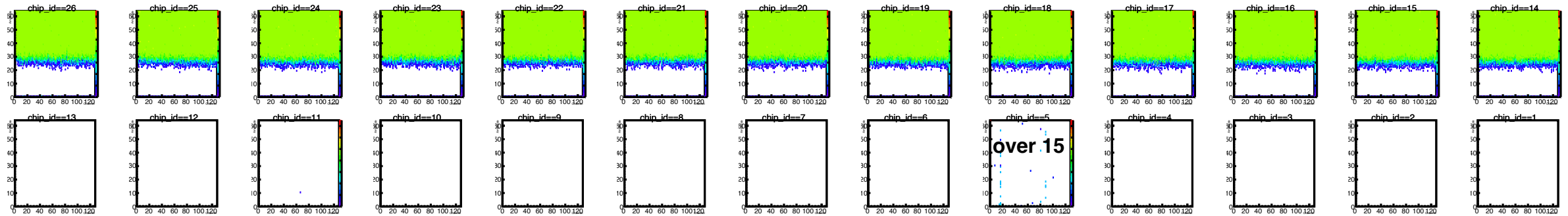
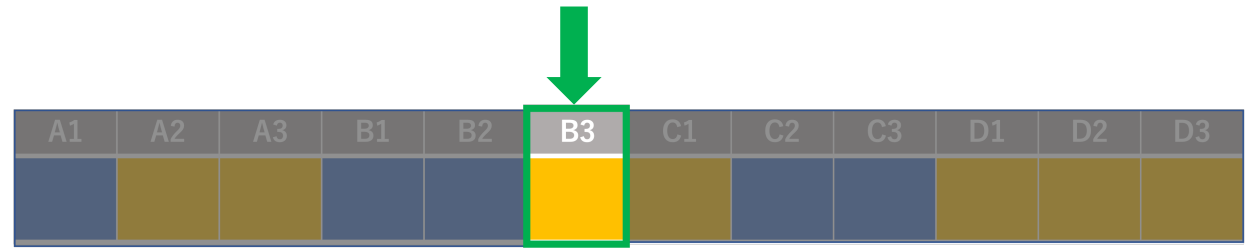
ROC21

A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3
Blue	Yellow	Blue	Yellow	Blue	Yellow	Blue	Red	Red	Blue	Red	Yellow

原因がわかっているもの

ROC14

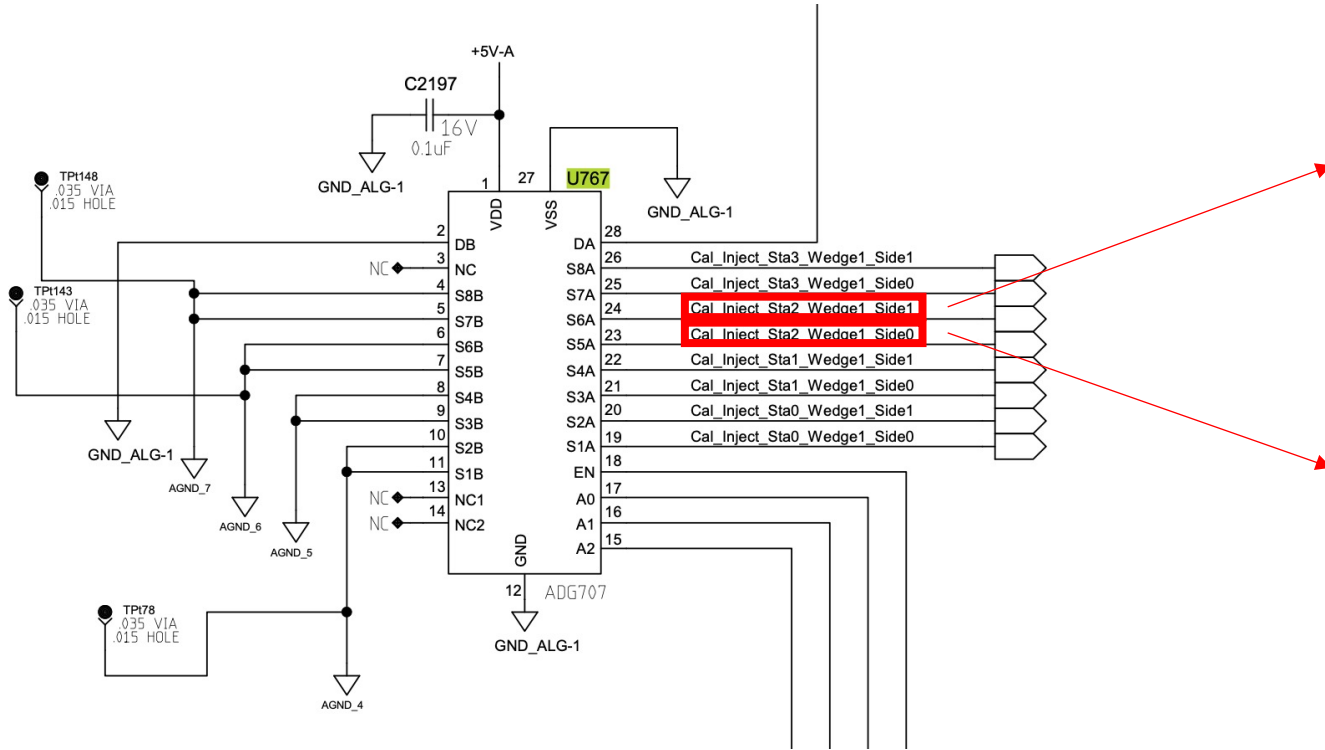
ROC14 (B2port)



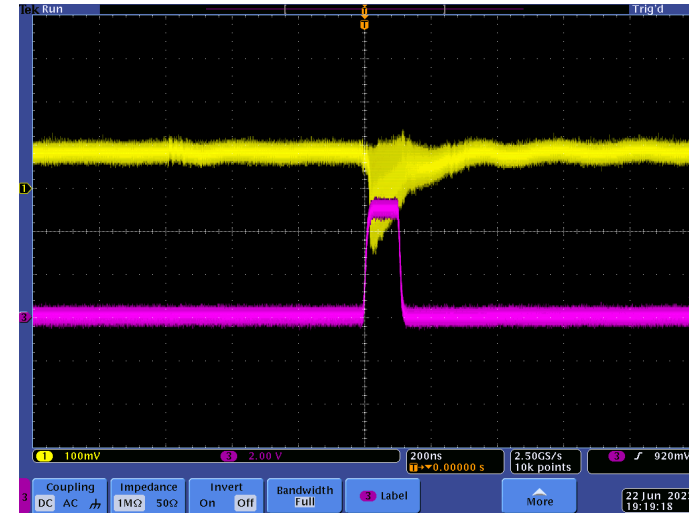
Check multiplexer!!

Chip1~13 No data

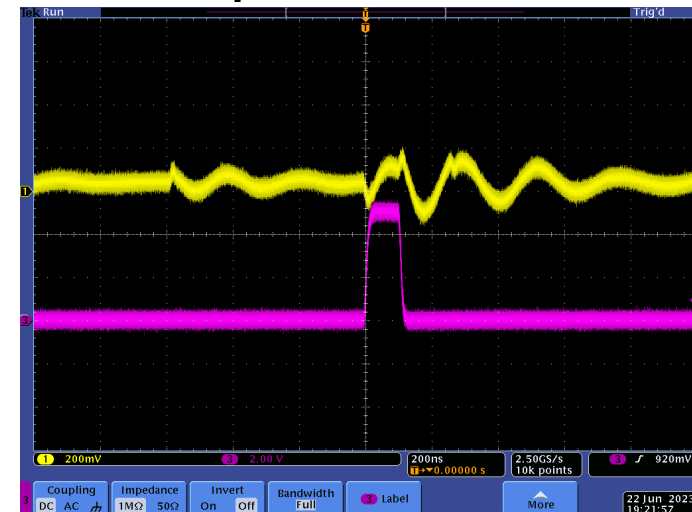
Measurement of pulse (Check multiplexer)



B2port J1



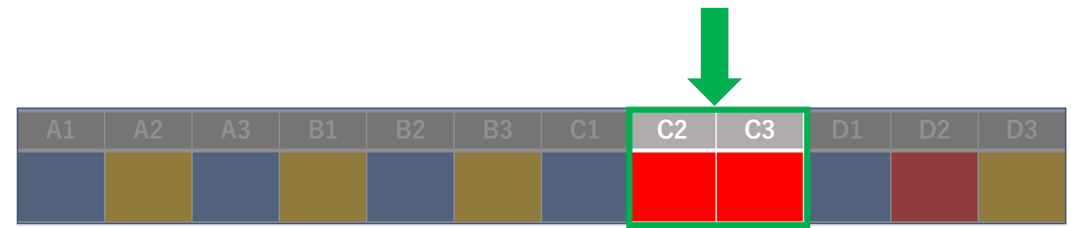
B2port J0



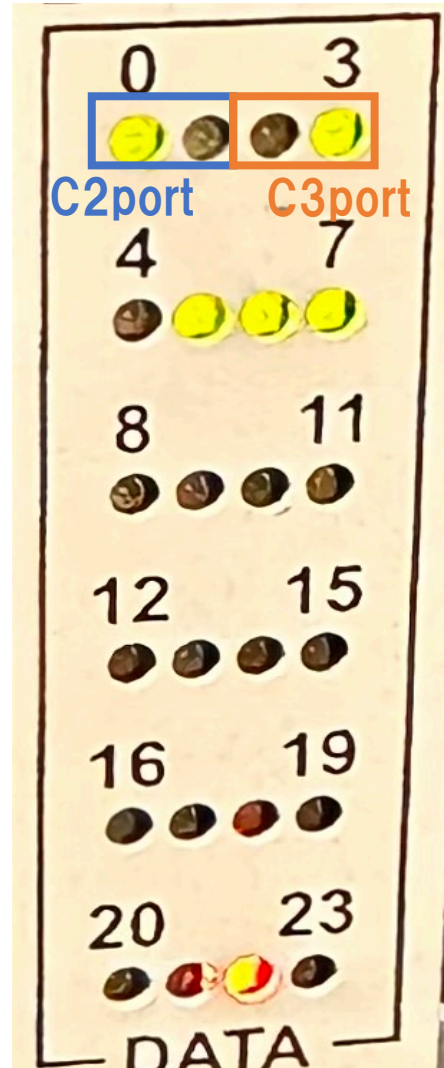
Multiplexer is **bad!!**

ROC21

ROC21 (C2, C3port)

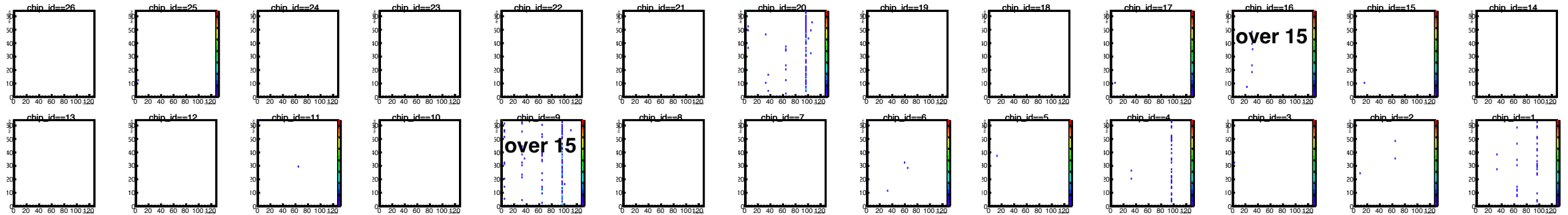
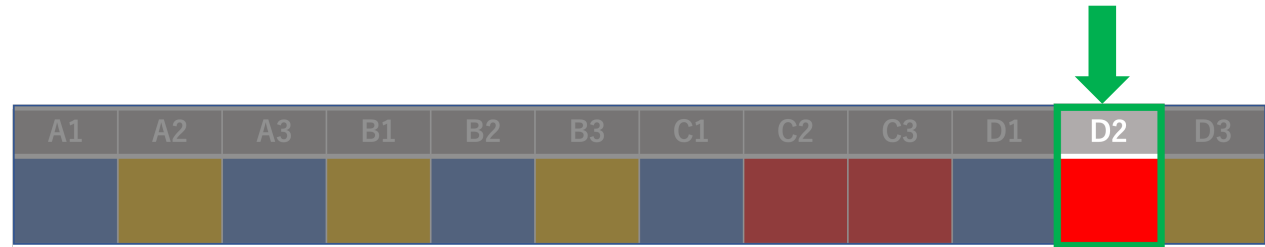


Fiber latch problem



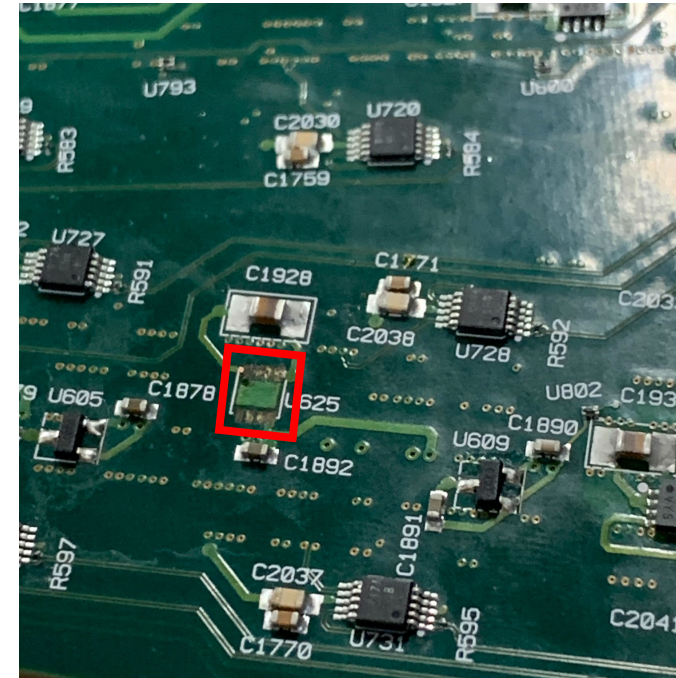
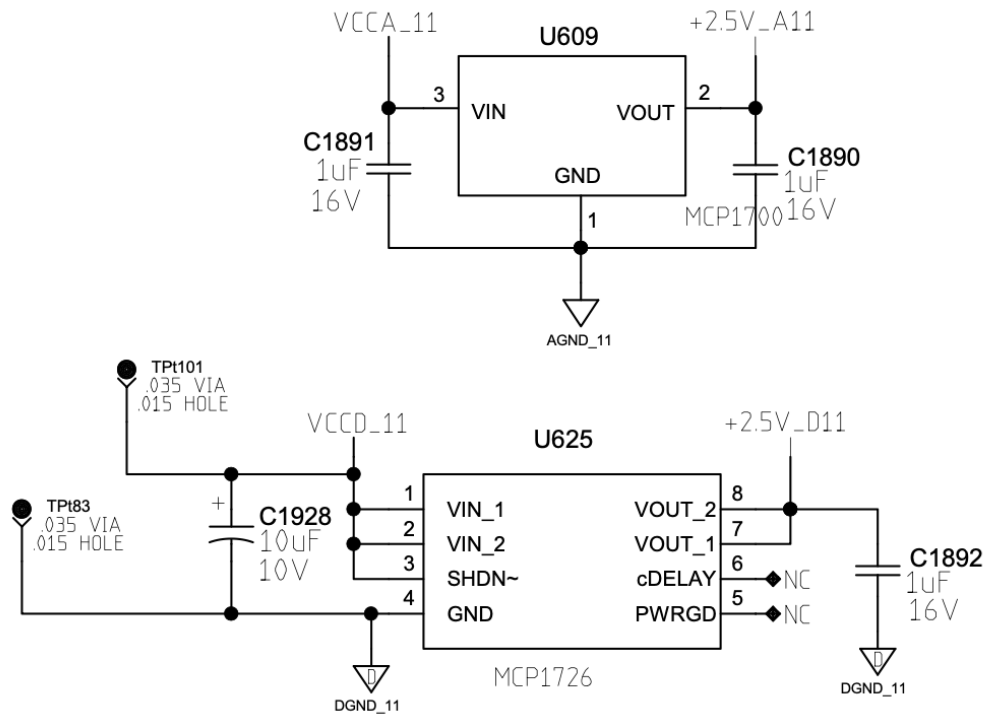
Exchange serializer!

ROC21 (D2port)



Check input and output of regulator!!

ROC21 (D2port) (Regulator Test)



Output C1892 → 0.601V (usually 3.00V)
Input C1928 → 4.914V (usually 3.50V)

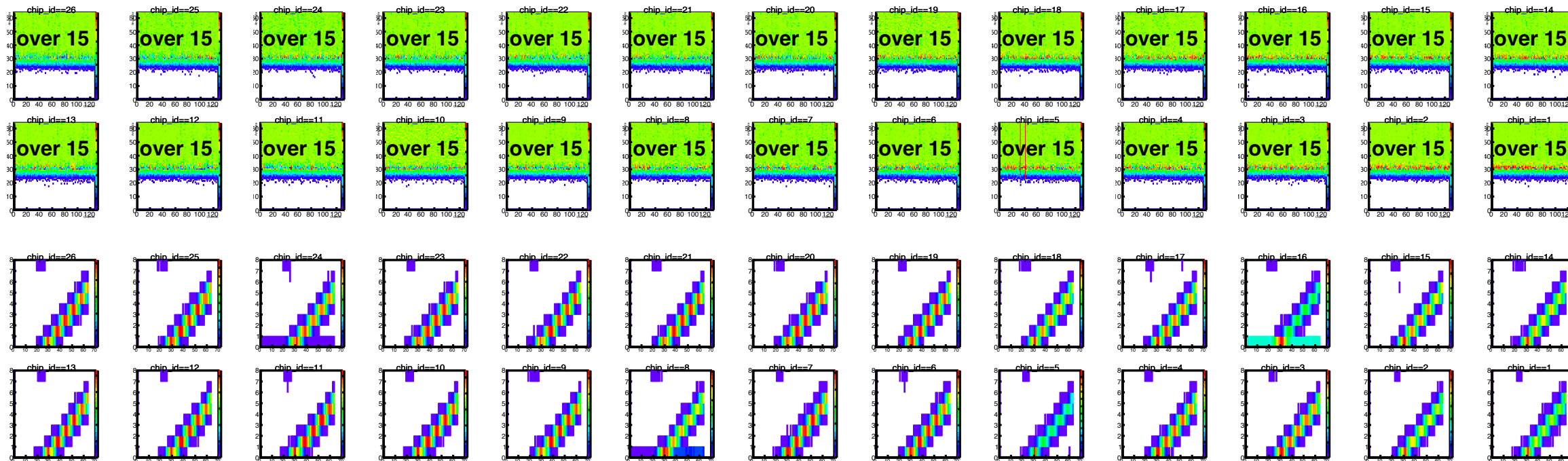
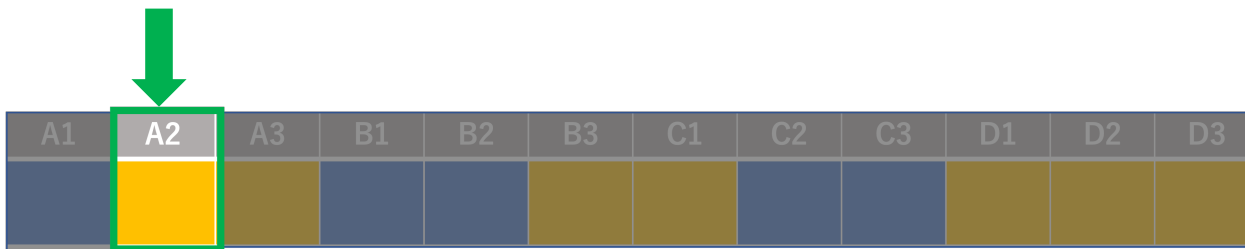


U625 is lost

原因不明なもの

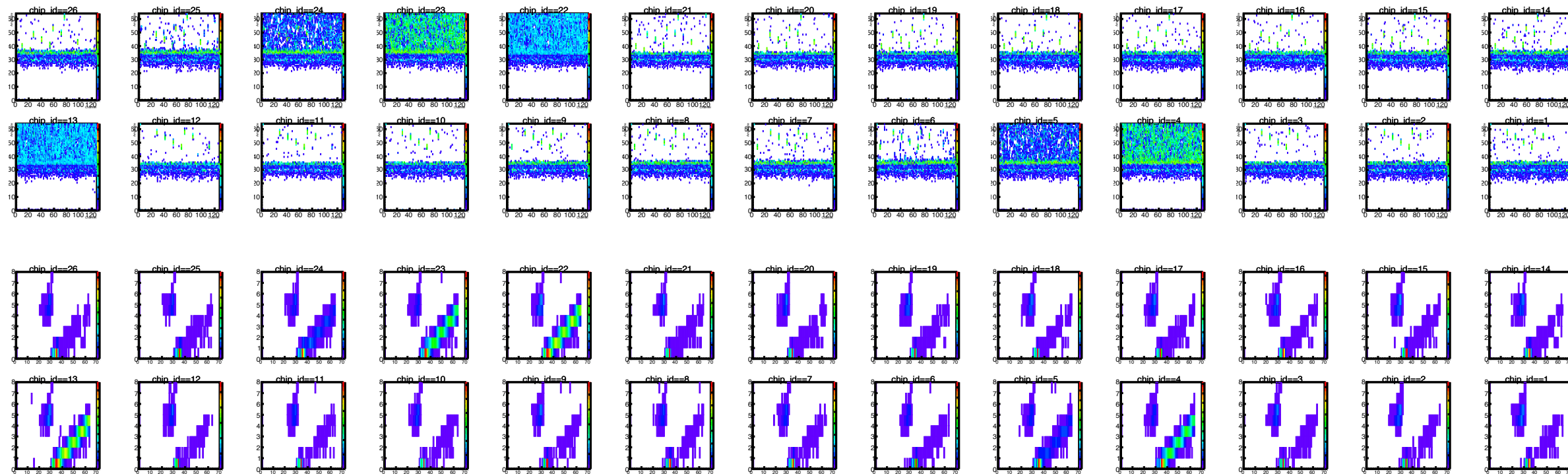
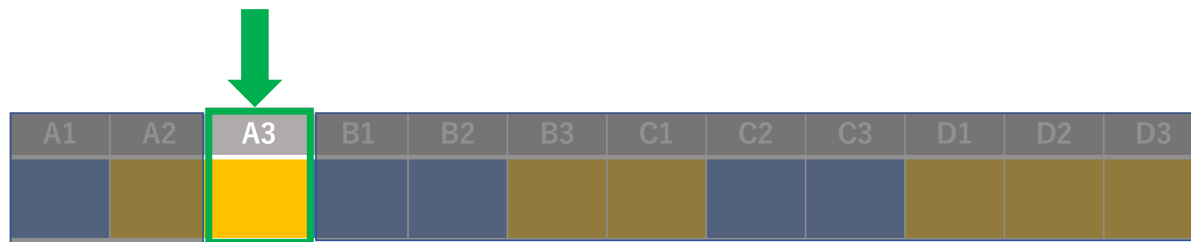
ROC14

ROC14 (A2port)



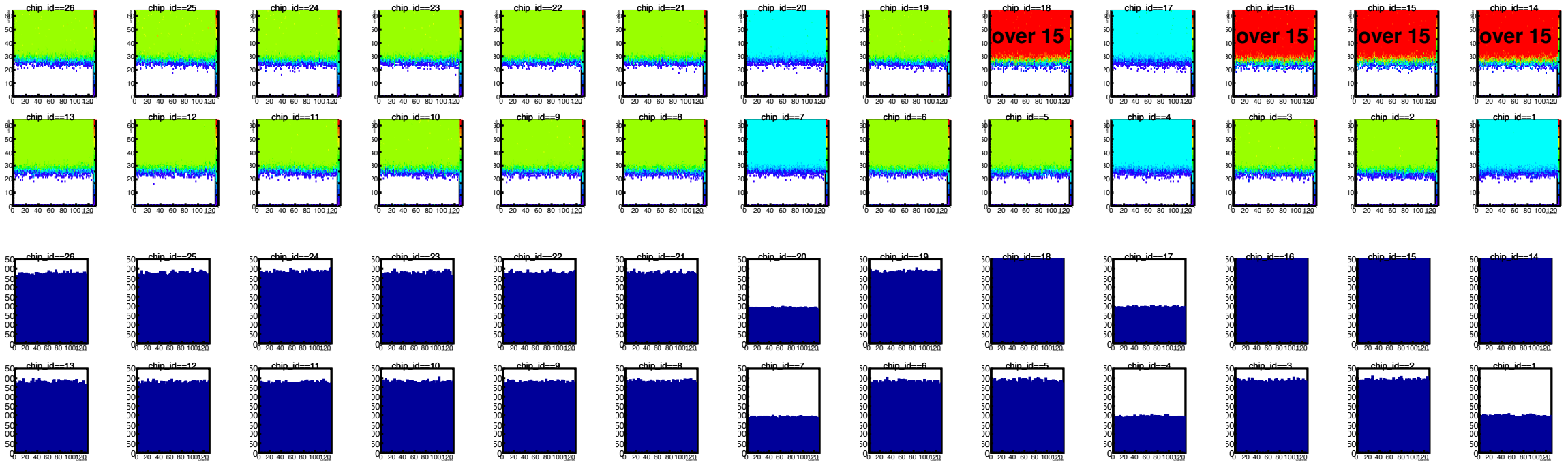
全データがover15

ROC14 (A3port)



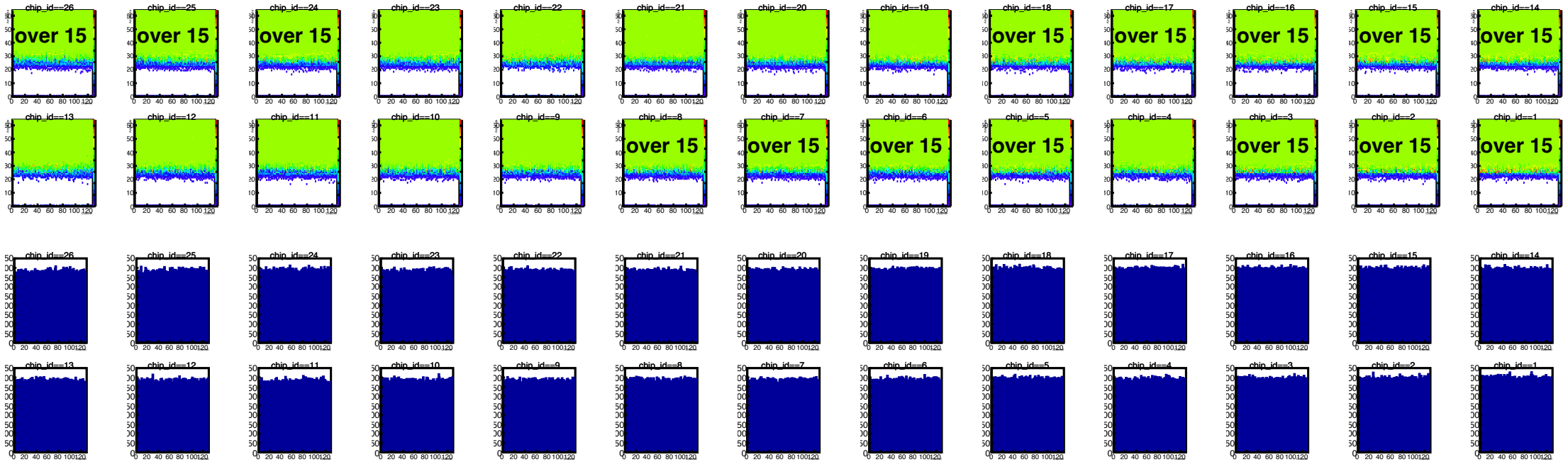
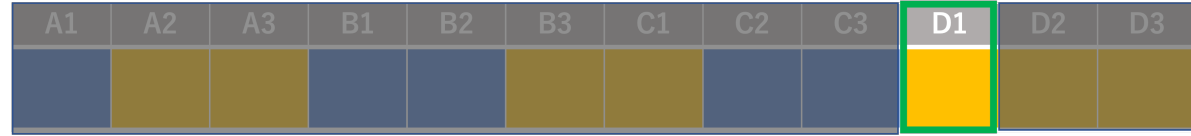
全体的にデータ数が少ない。奈良女で見たニワトリデータ？

ROC14 (C1port)



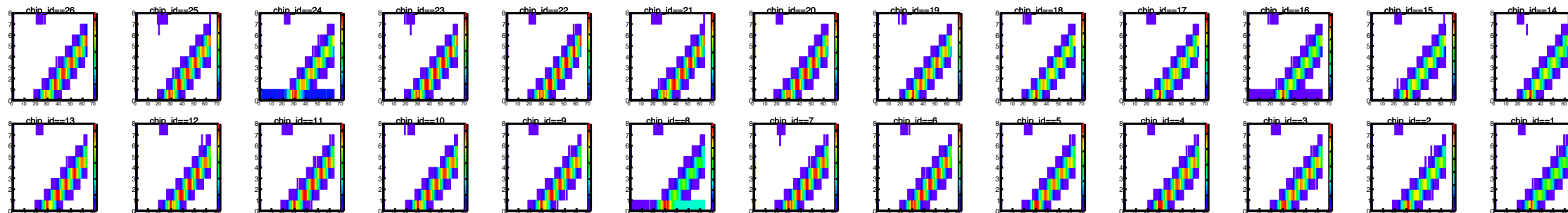
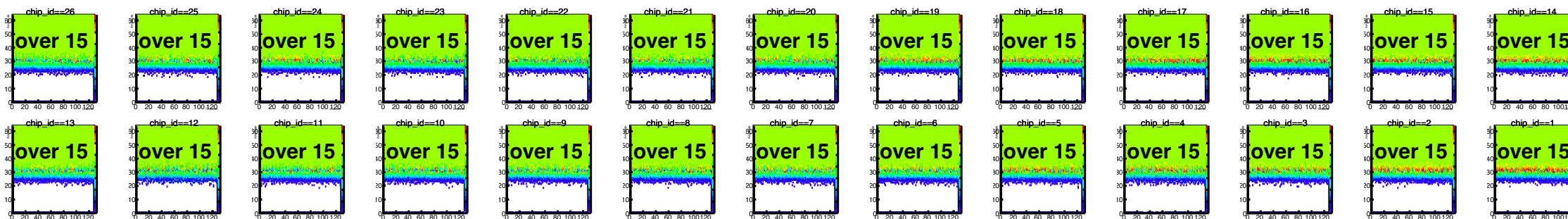
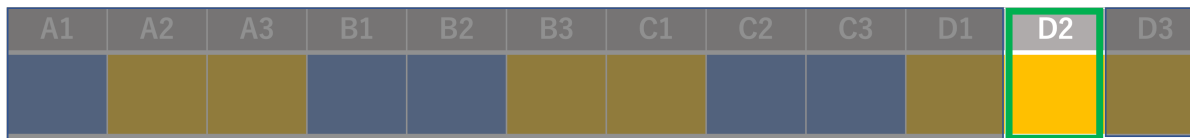
Chip1,4,7,17,20→half entry
Chip10,12,14,15,18→over15

ROC14 (D1port)



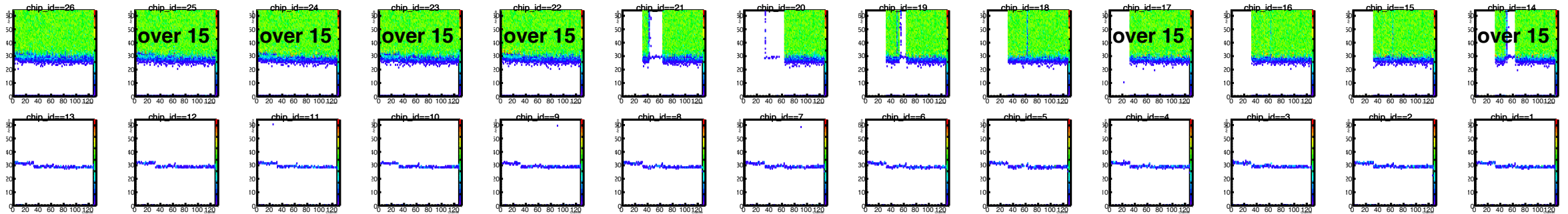
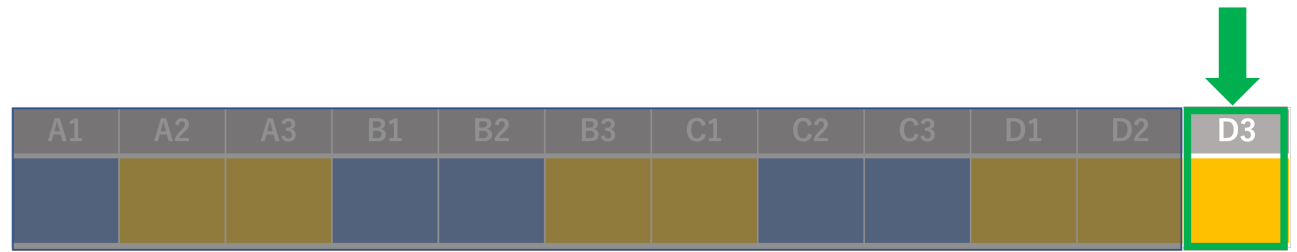
Chip1~3, 5~8, 14~18, 24~26→over15

ROC14 (D2port)



全chipがover15

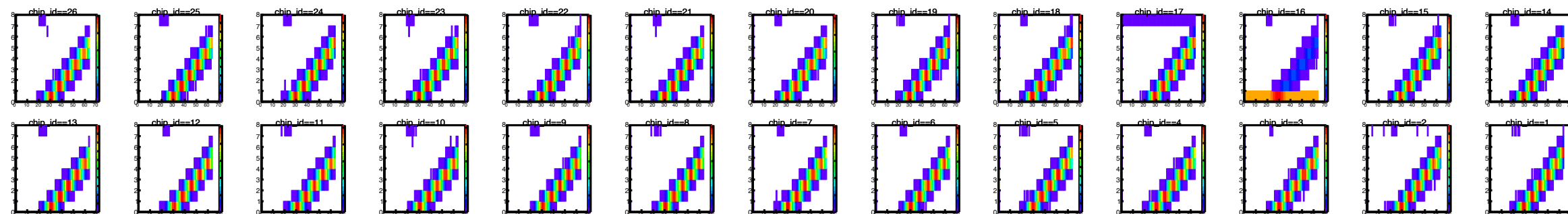
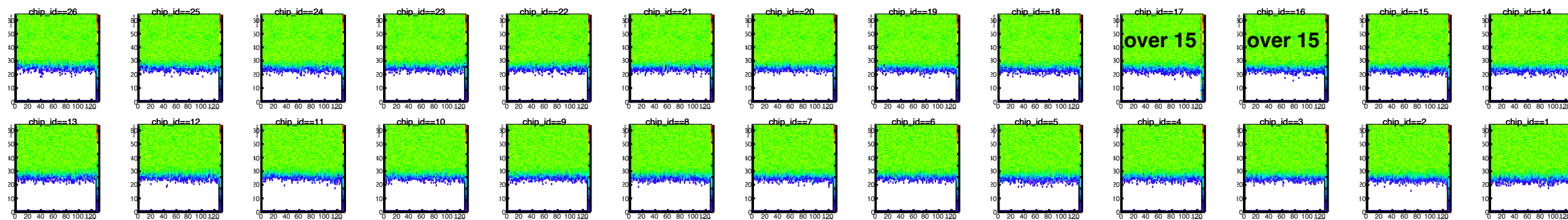
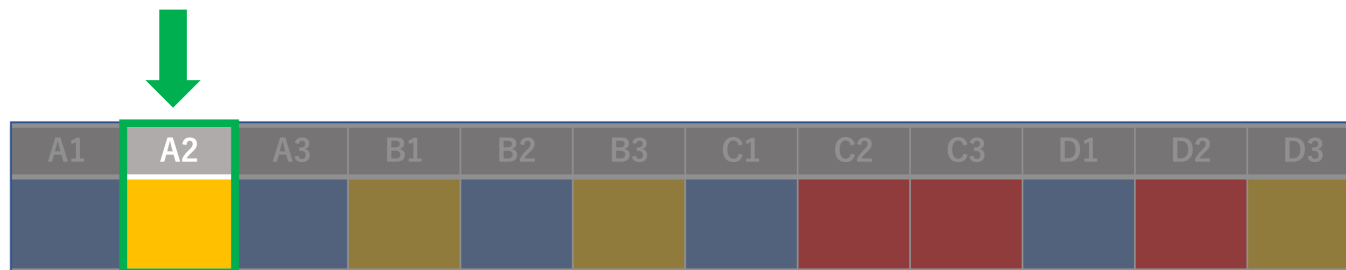
ROC14 (D3port)



Chip1~13→ほぼ空データ
Chip14~21→データかけ

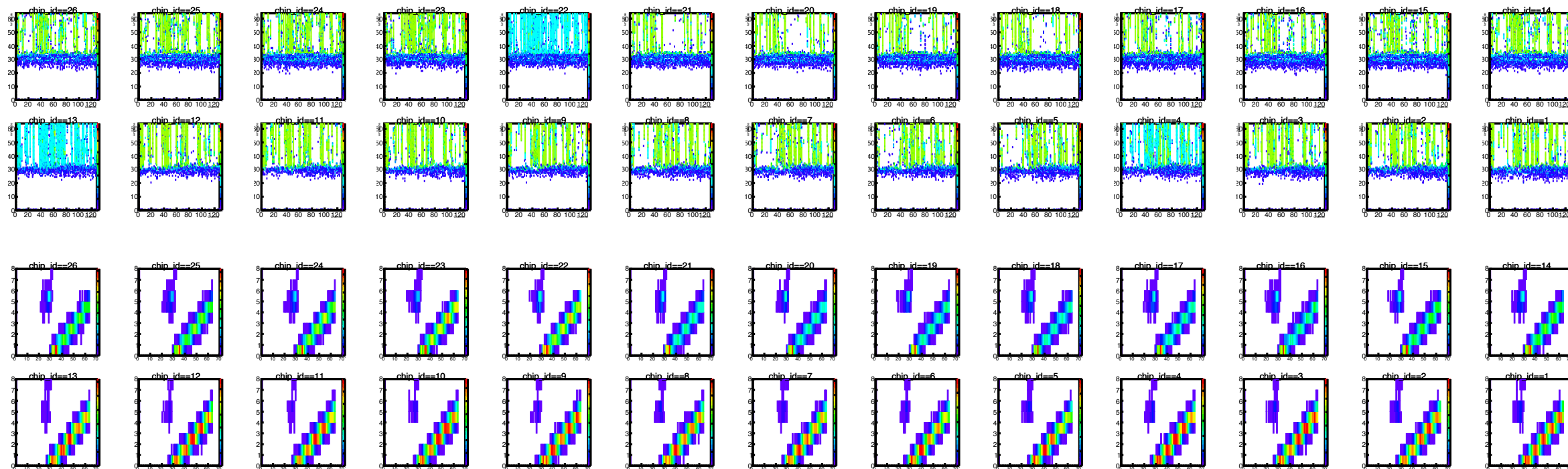
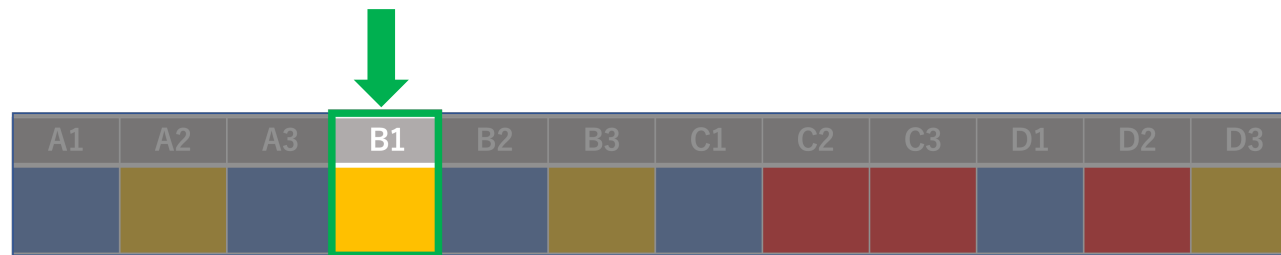
ROC21

ROC21 (A2port)



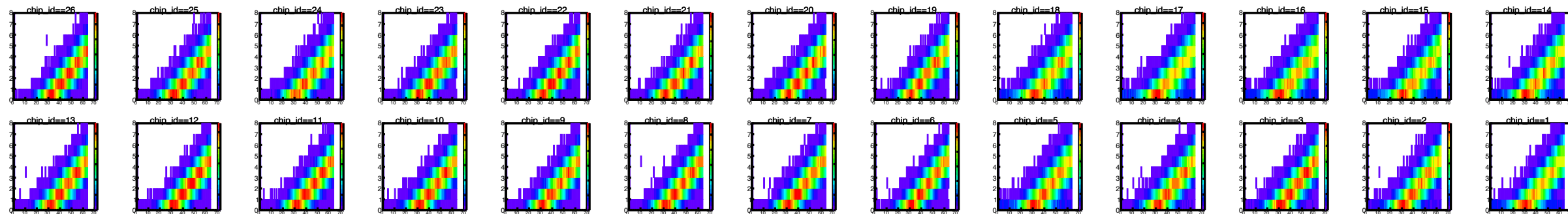
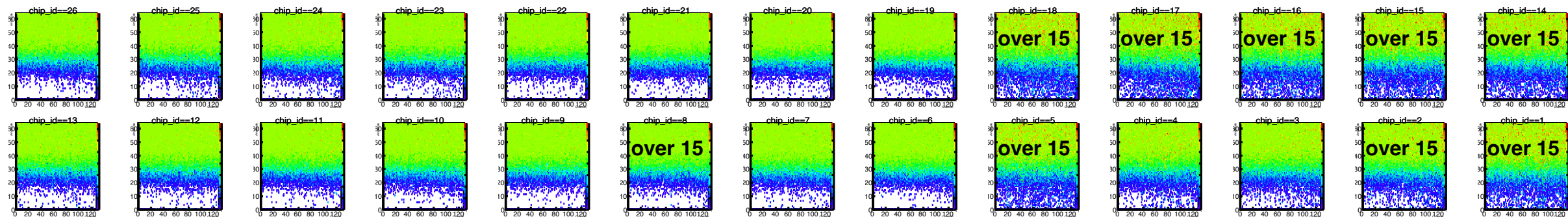
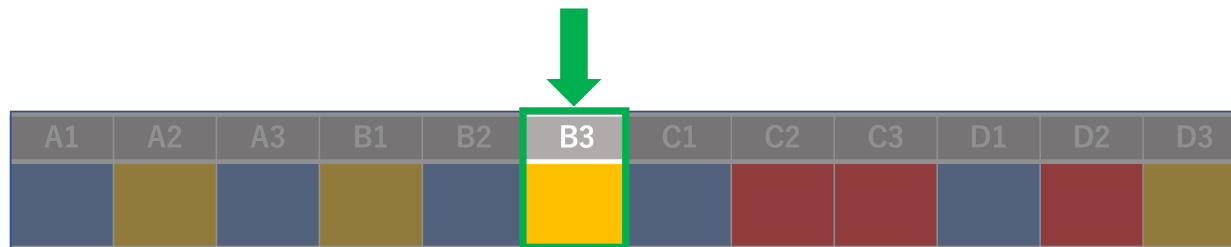
ノイズが大量に来た。Chip15,17がover15

ROC21 (B1port)



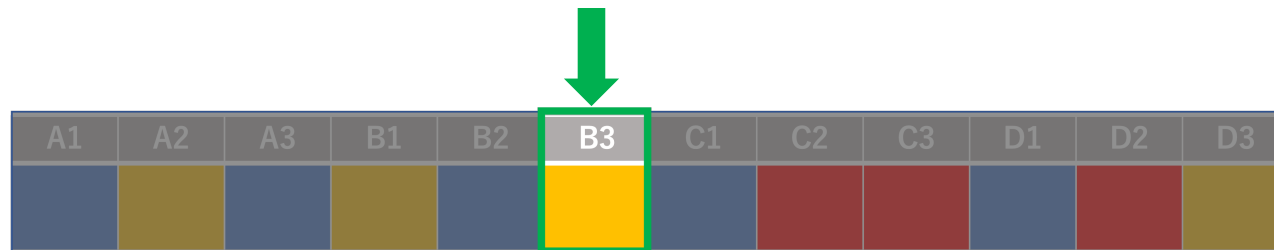
全chipでエントリーが足りていない。

ROC21 (B3port)

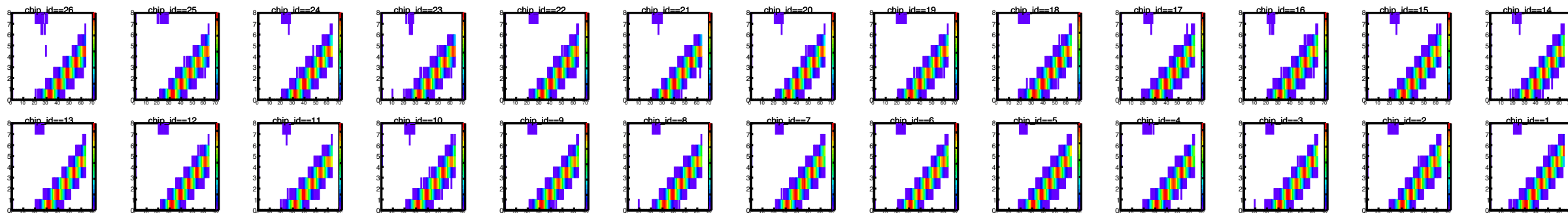


Chip1, 2, 5, 8, 14, 15, 16, 17, 18 → over15

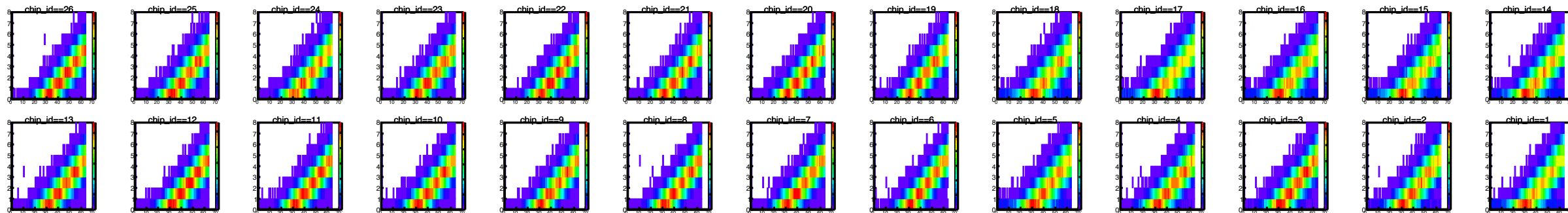
ROC21 (B3port)



正常なデータ

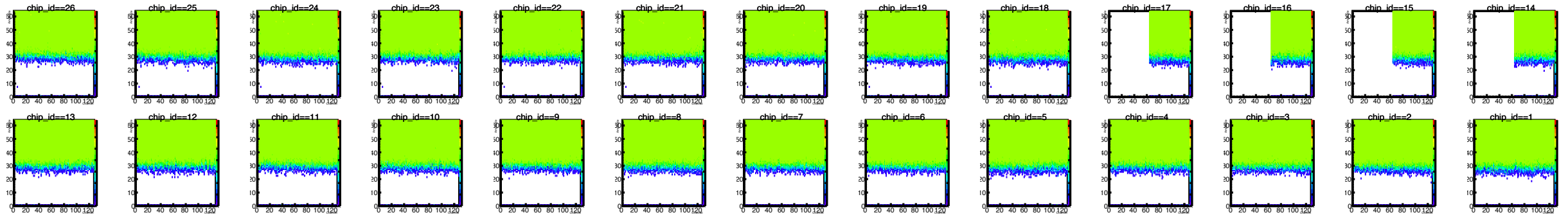
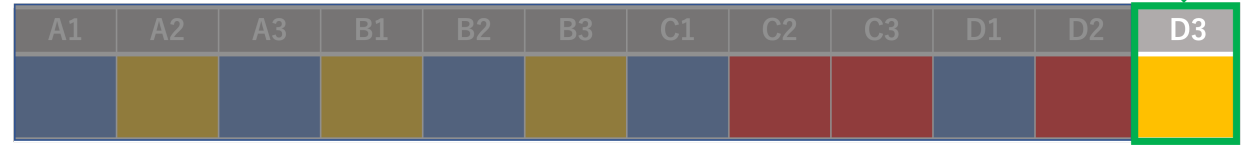


今回のデータ



Chip1, 2, 5, 8, 14, 15, 16, 17, 18→over15

ROC21 (D3port)



D3ポート欠け。

まとめ

- ROC14, 21のキャリブレーションテストを行なった。
- 2台のROCはBNLに送る前の状態と比べてだいぶ悪くなっていた。

今後の展望

- 原因がわかっているものに関して、とりあえず修理に出し、
- 修理されたROCが届き次第、原因不明のポートの調査を進めたいと考えている。