



MOTOR AFFECTS②

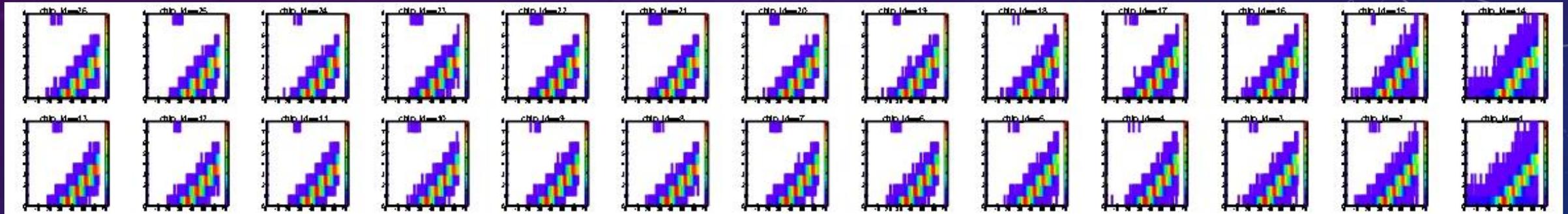
NARA WOMEN'S UNIVERSITY

YUMIKA NAMIMOTO

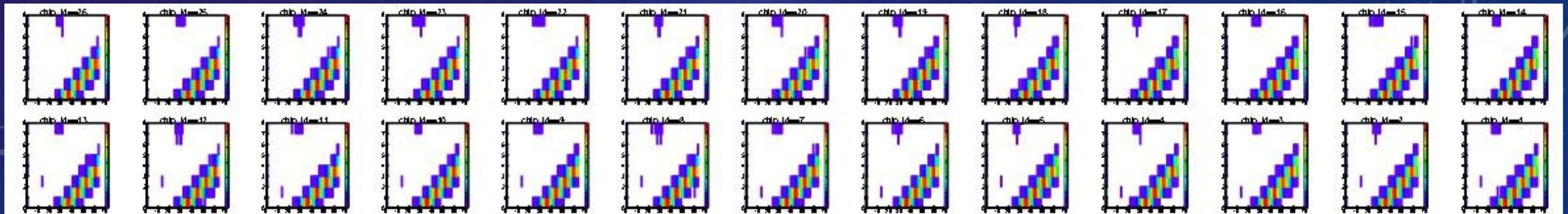
LAST WEEK REPORT

- Source test fixture's motor affects calibration & source test results.

Motor ON



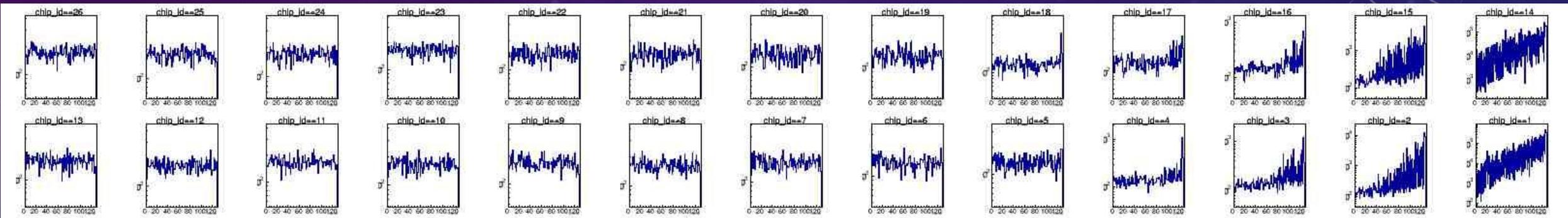
Motor OFF



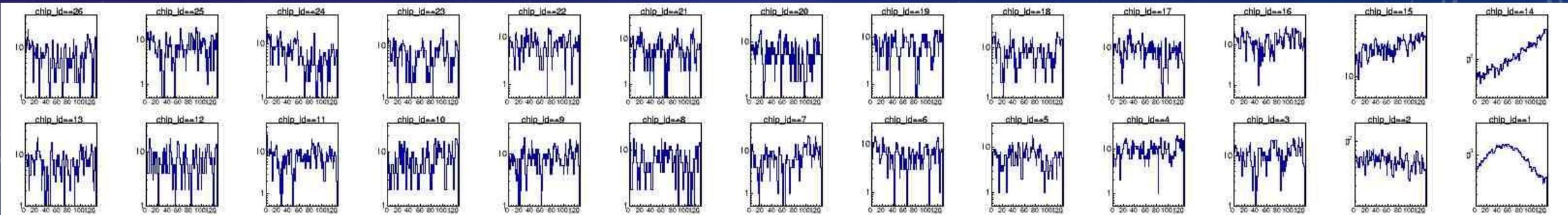
LAST WEEK REPORT

- Source test fixture's motor affects calibration & source test results.

Motor ON



Motor OFF



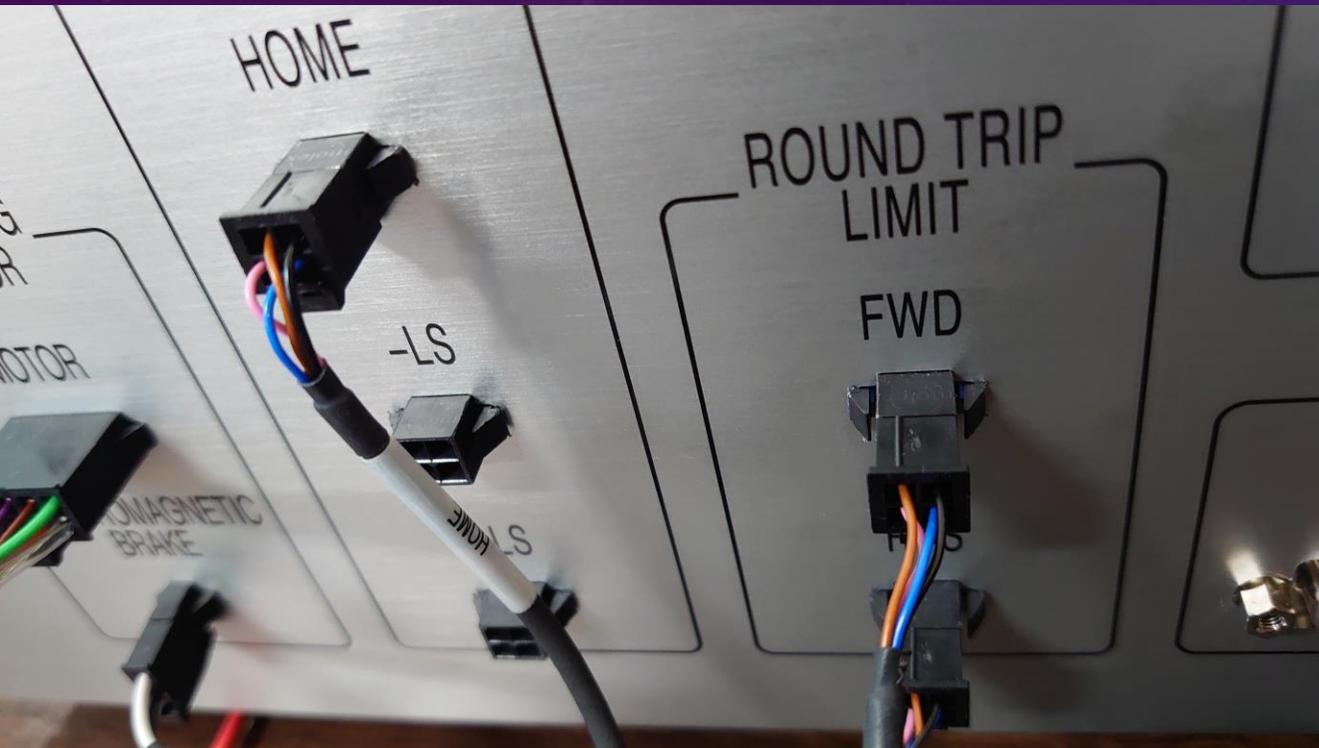
NEW REPORT

- In Japan, last Thursday to Sunday are Olympic holidays, so I have a few new report.
 - Taking data without some cables behind the motor controller.
 - Checking the position sensor's affects.

7月						
日	月	火	水	木	金	土
27	28	29	30	1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31
1	2	3	4	5	6	7

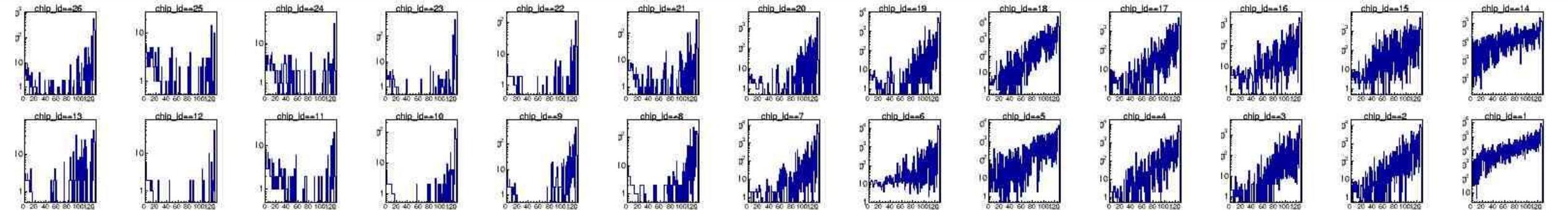
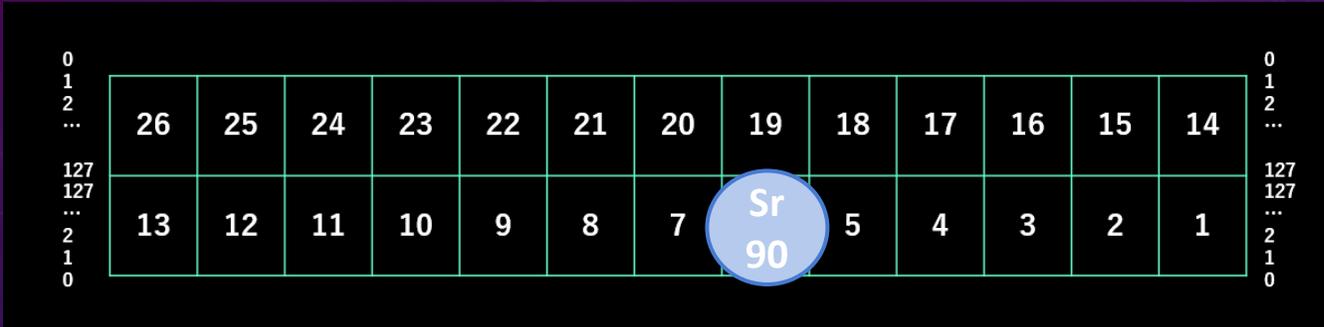
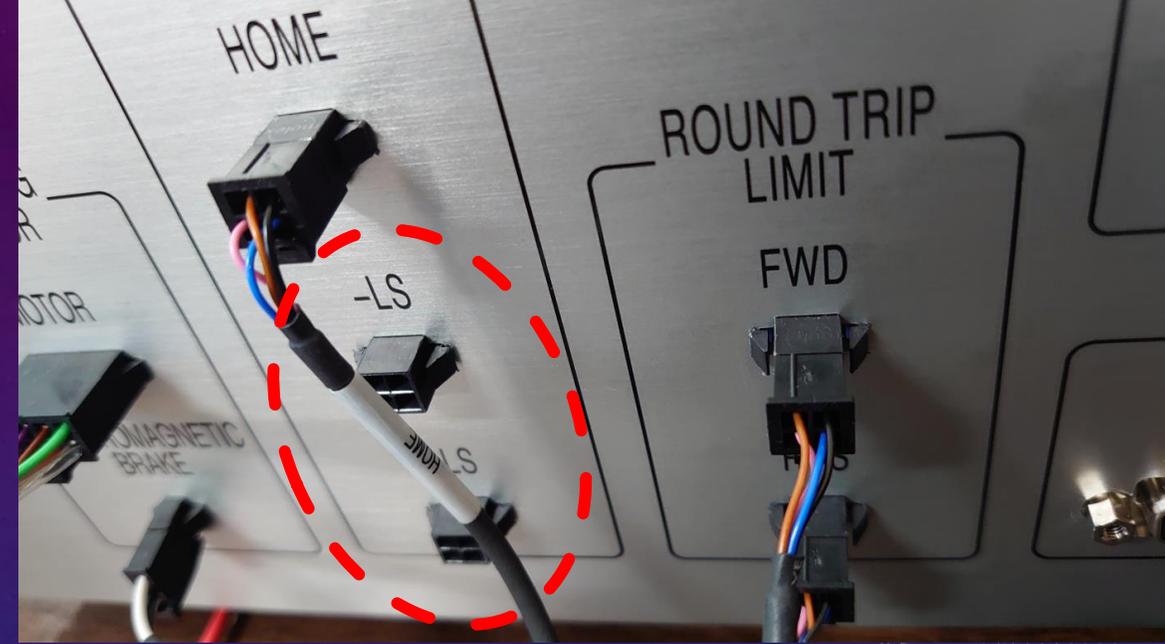
RESULT: WITHOUT SOME CABLES

- Motor control box has many cable connections.
- Now we use FWD, RVS, HOME, MAGNETIC BREAK and MOTOR.



RESULT: WITHOUT LS, -LS

- Unplug LS and -LS cables and did source test.

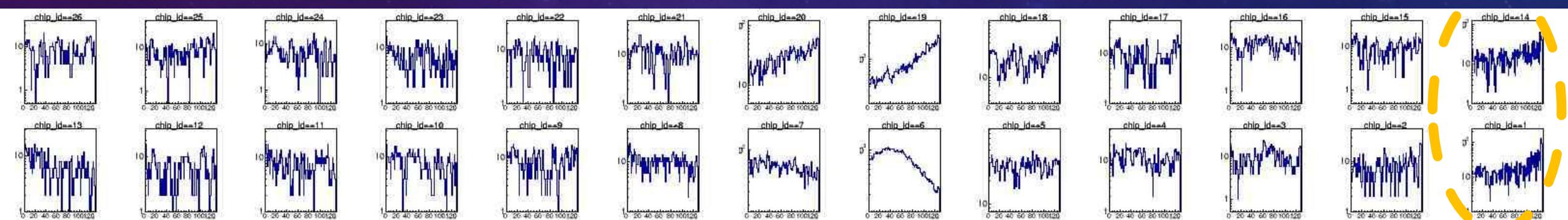
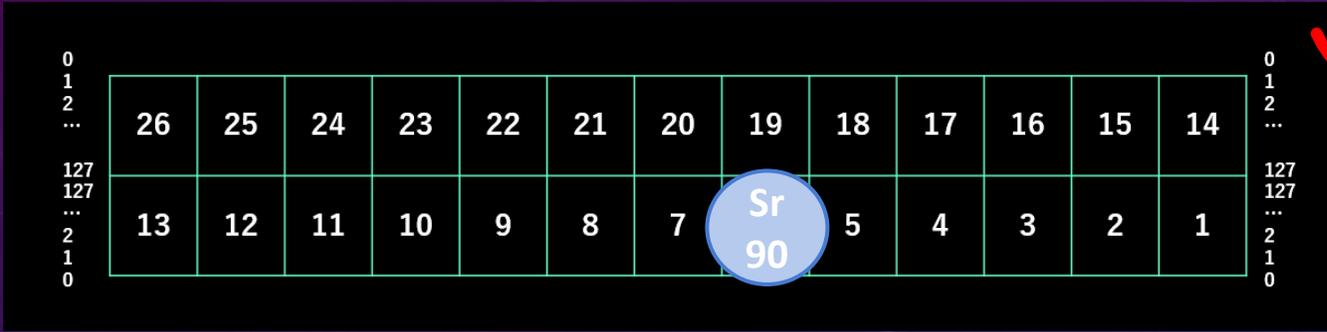
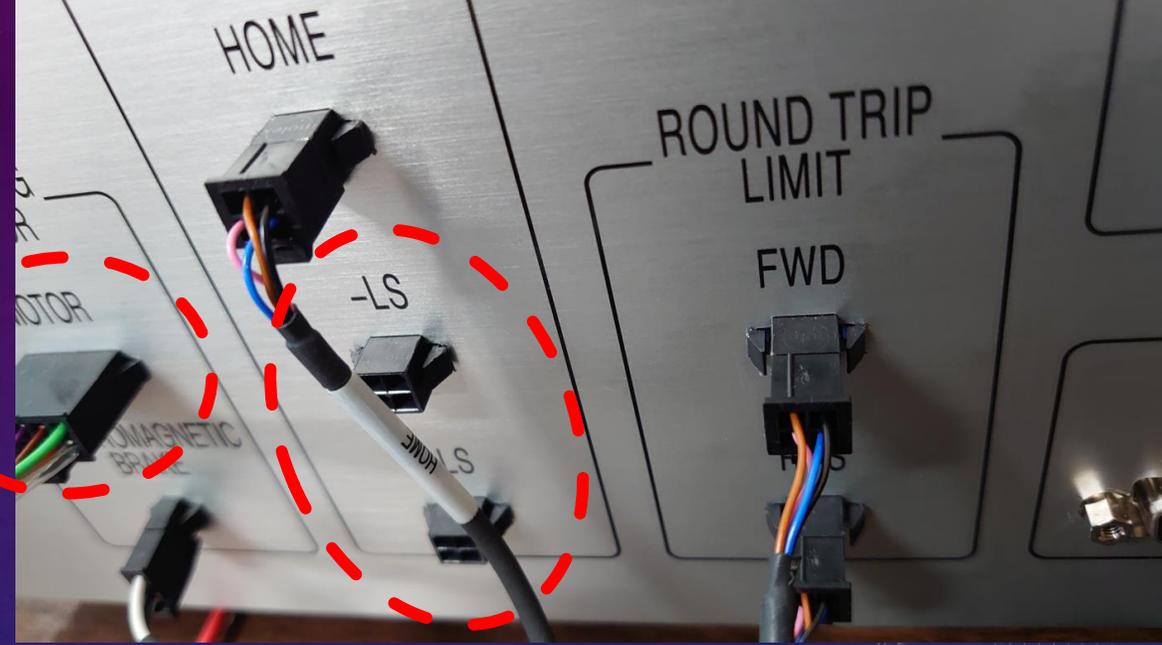


- We can see many noises.
- Fish bone phenomena shows.



RESULT: WITHOUT LS,-LS AND MOTOR

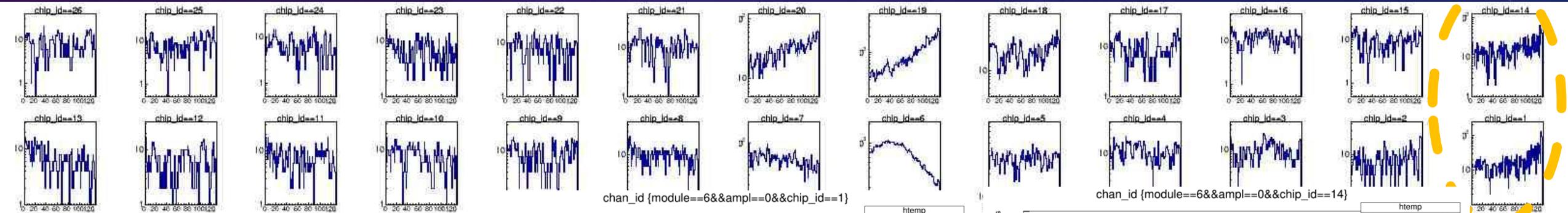
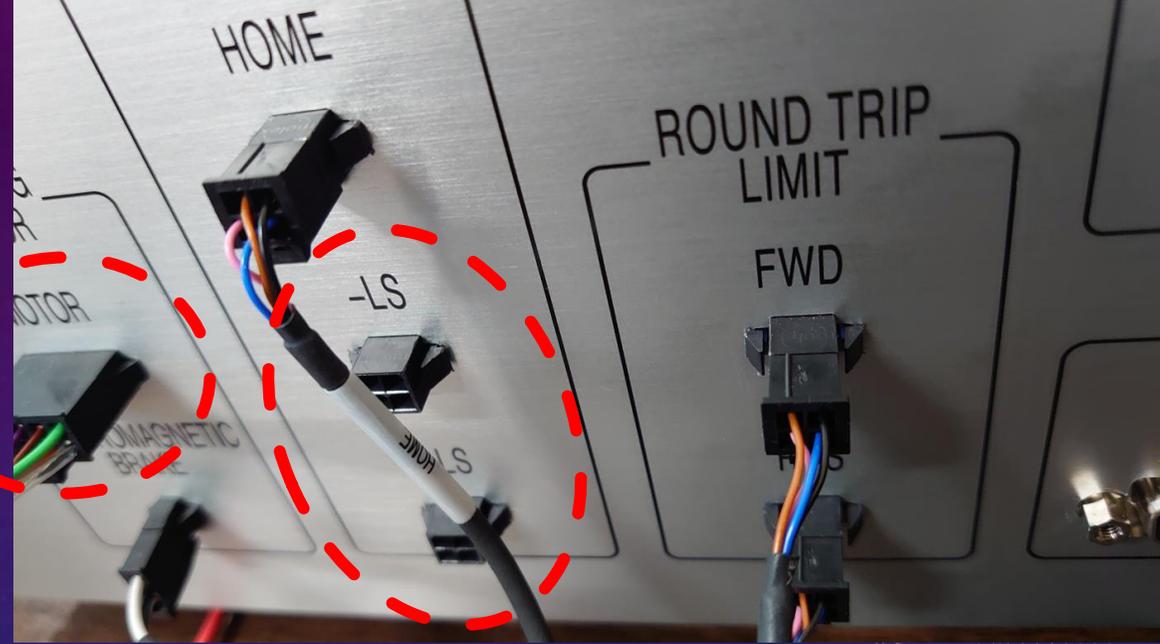
- Unplug LS,-LS and MOTOR cables and did source test.



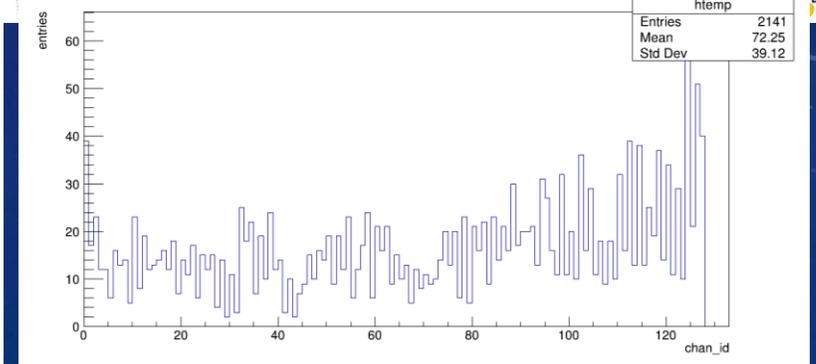
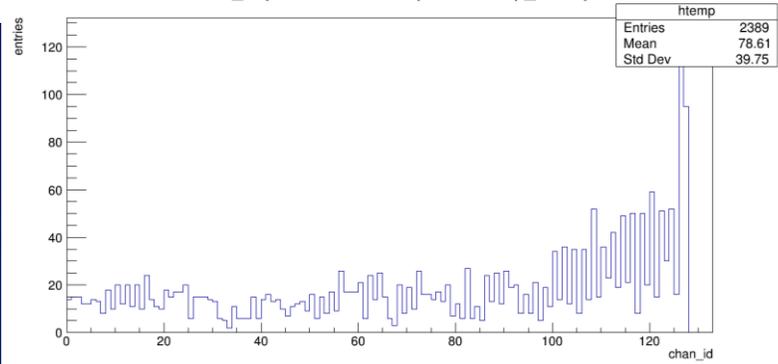
- Noises are decreasing, but chip1,14 shows fish-bone phenomena.

RESULT: WITHOUT LS,-LS AND MOTOR

- Unplug LS,-LS and MOTOR cables and did source test.

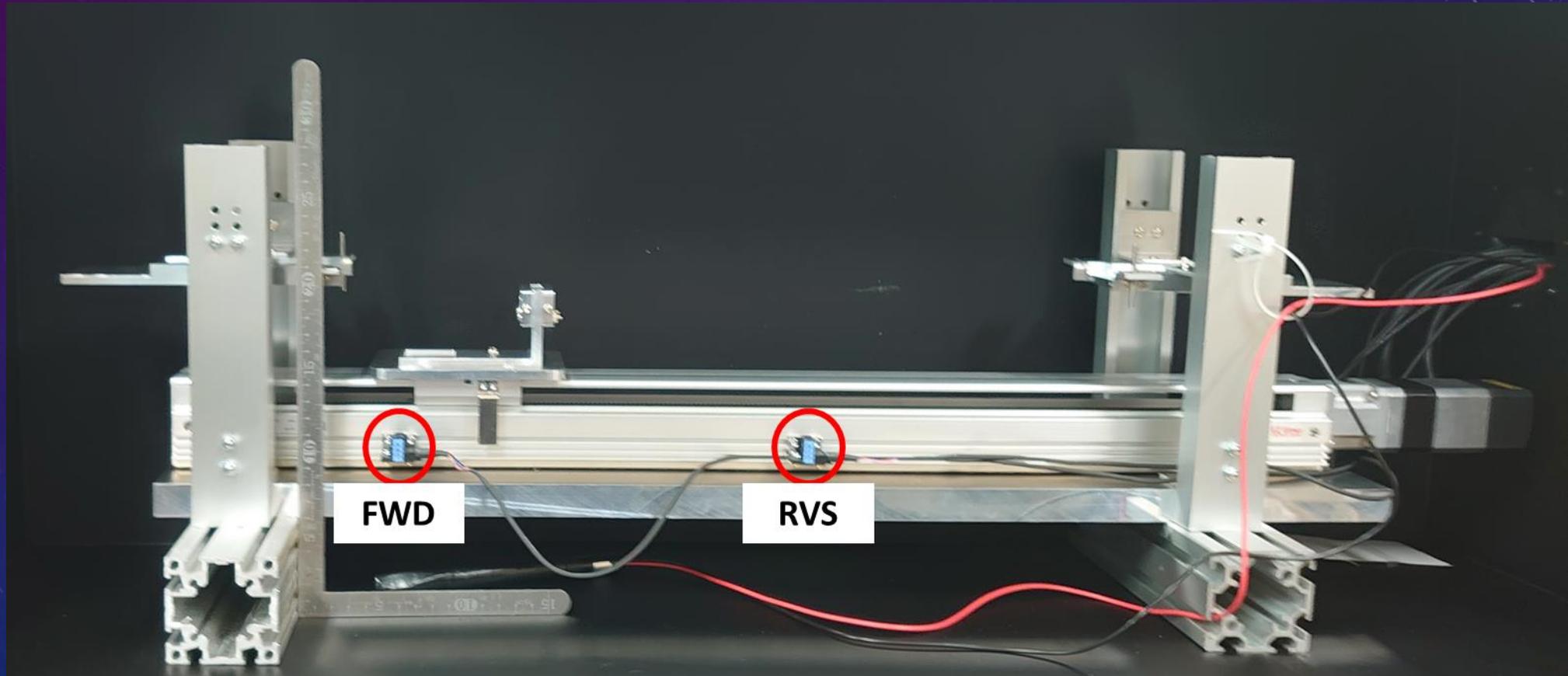


- Noises are decreasing, but chi phenomena.



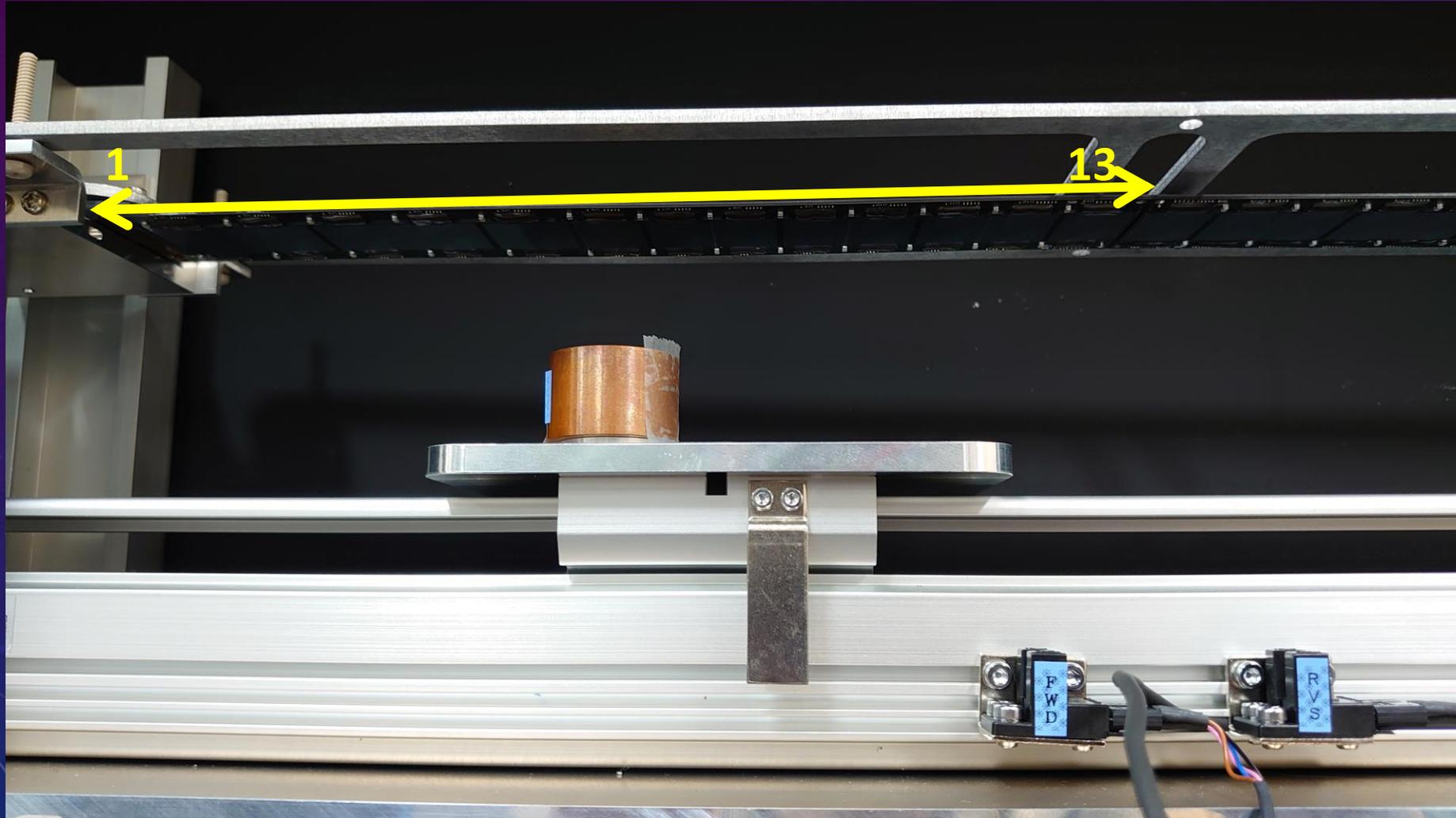
POSITION SENSOR'S AFFECTS

- Now we use 2 position sensors in source test fixture, **FWD**(forward) and **RVS**(reverse).
- FWD close to chip1, and RVS close to chip13.
 - If motor power ON, chip1 shows noisy result.



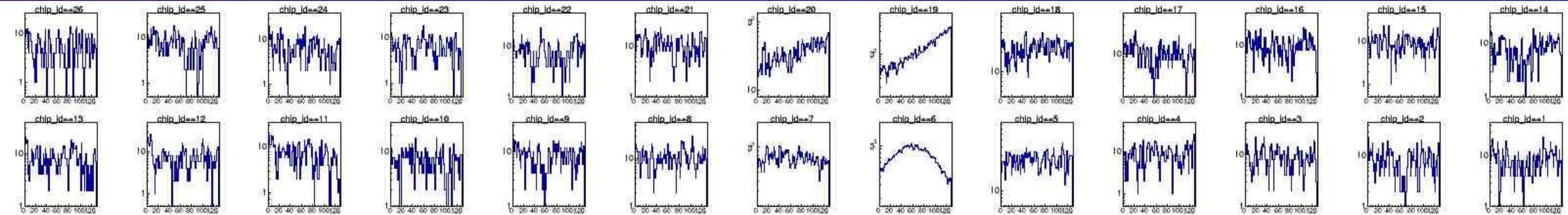
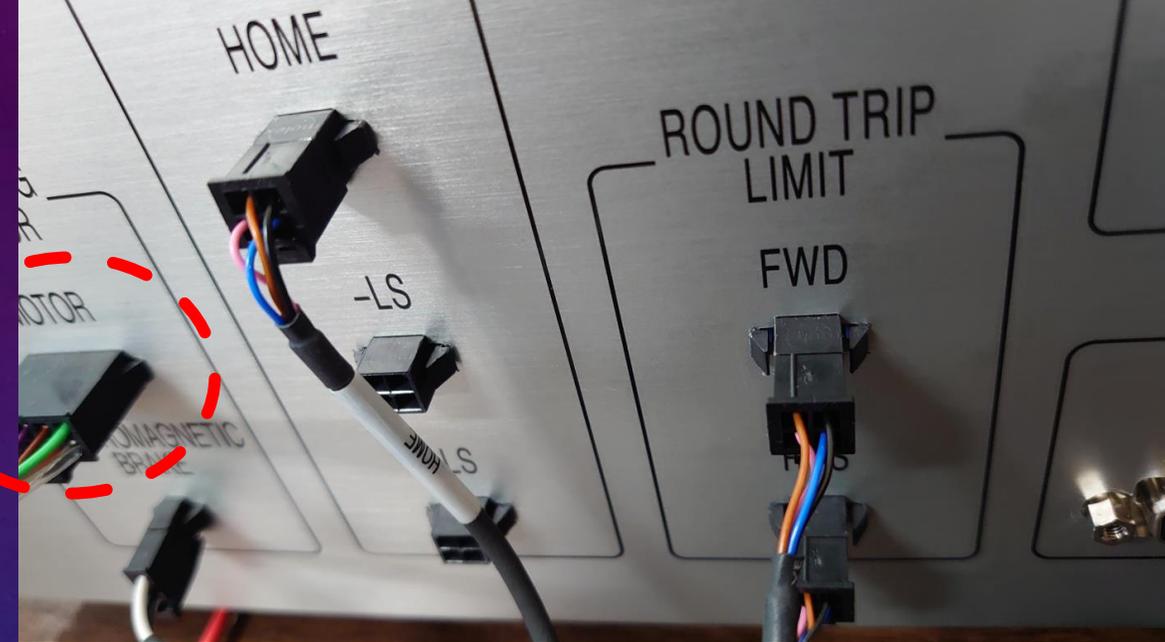
POSITION SENSOR'S AFFECTS

- Set FWD and RVS sensors at chip13 and did source test (self trigger).



POSITION SENSOR'S AFFECTS

- Source on chip6 and FWD,RVS at chip13. without motor cables.
→If position sensors affects the result, chip13,26 shows suspicious behavior.



- No suspicious behavior.
- Position sensors don't affects.

SUMMARY

- If motor power ON, noises come to the results, calibration test and source test.
- Position sensors(FWD and RVS) don't affect the results.