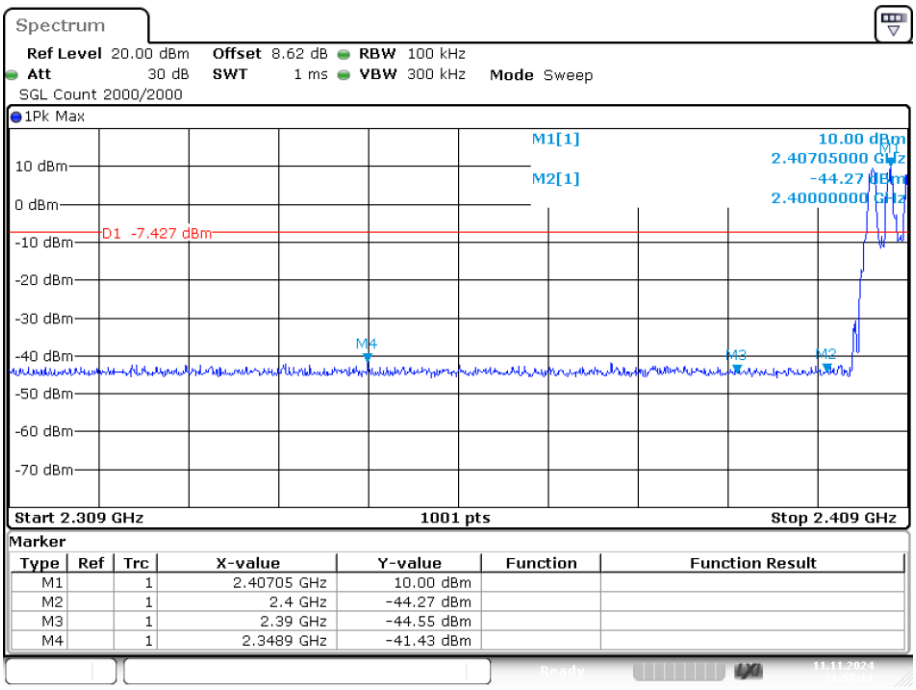
2405-2471MHz

Band Edge(Hopping) NVNT 2.4G 2405MHz Ant1 Hopping Emission

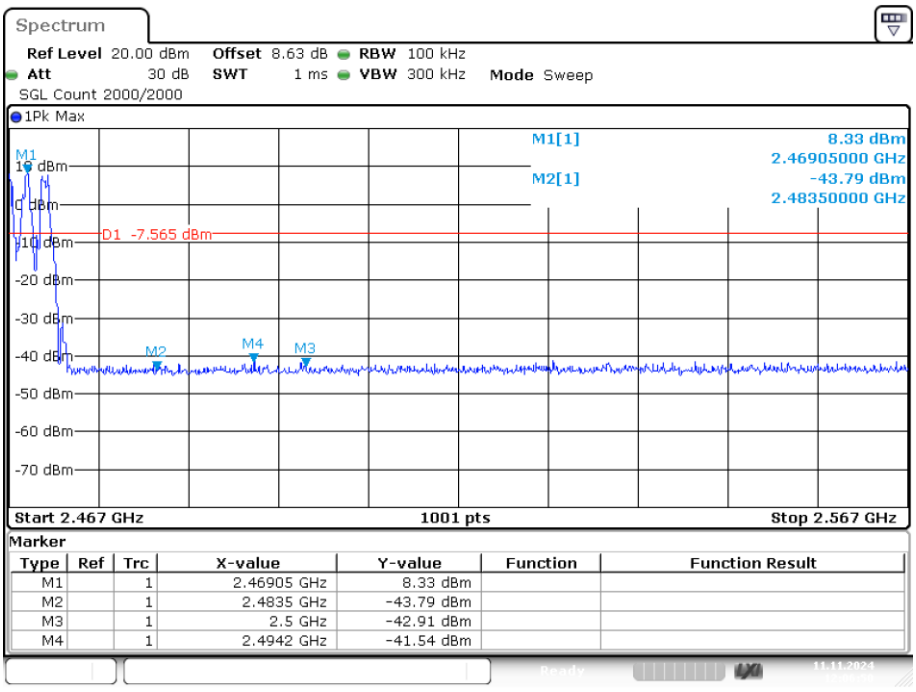


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.40705 GHz	10.00 dBm		
M2		1	2.4 GHz	-44.27 dBm		
M3		1	2.39 GHz	-44.55 dBm		
M4		1	2.3489 GHz	-41.43 dBm		

Date: 11.NOV.2024 11:55:10

Band Edge(Hopping) NVNT 2.4G 2471MHz Ant1 Hopping Emission



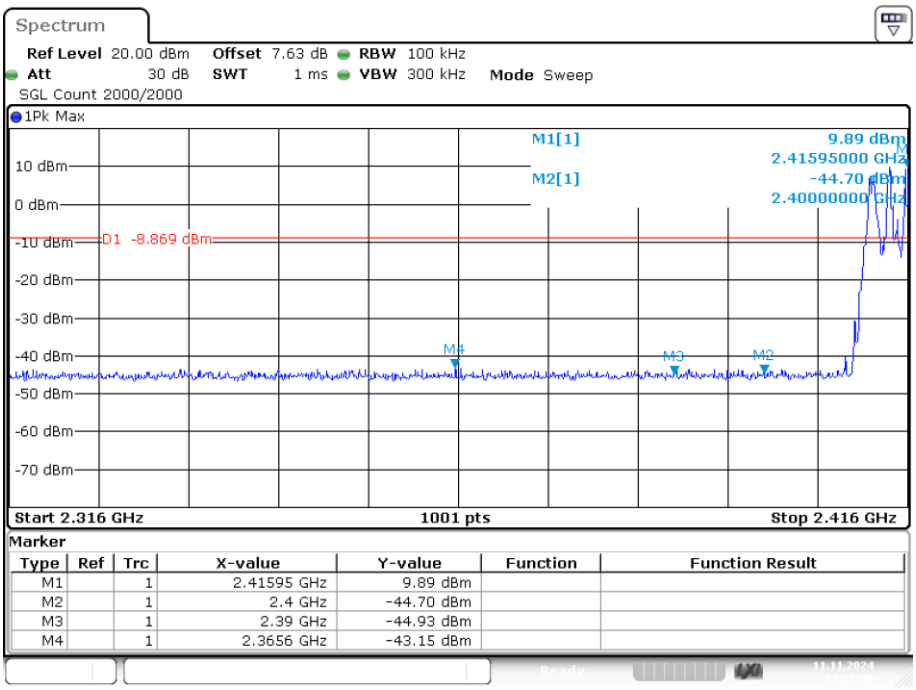
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46905 GHz	8.33 dBm		
M2		1	2.4835 GHz	-43.79 dBm		
M3		1	2.5 GHz	-42.91 dBm		
M4		1	2.4942 GHz	-41.54 dBm		

Date: 11.NOV.2024 12:06:50

2412-2478MHz

Band Edge(Hopping) NVNT 2.4G 2412MHz Ant1 Hopping Emission

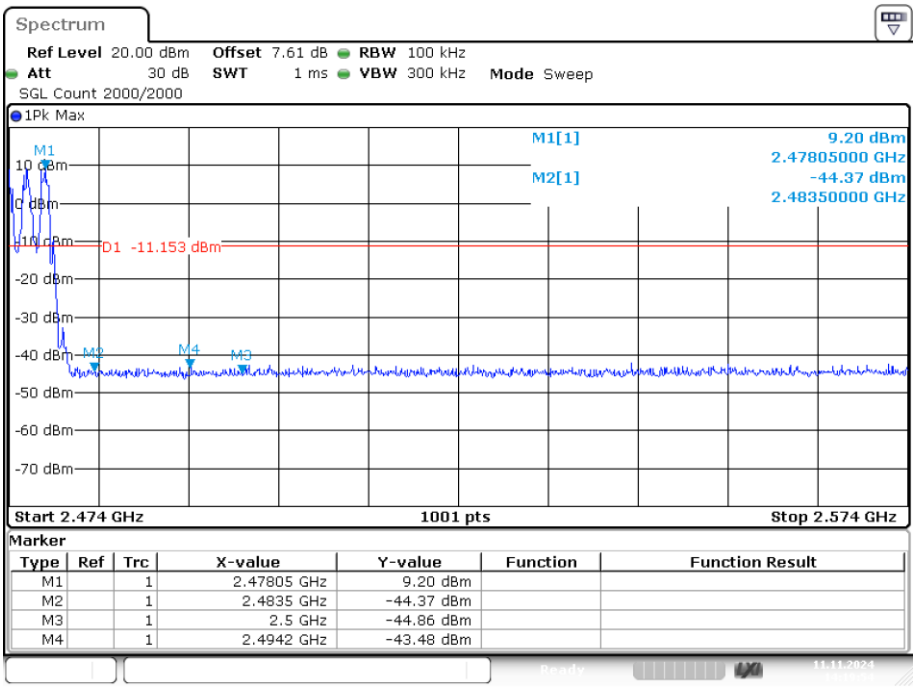


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41595 GHz	9.89 dBm		
M2		1	2.4 GHz	-44.70 dBm		
M3		1	2.39 GHz	-44.93 dBm		
M4		1	2.3656 GHz	-43.15 dBm		

Date: 11.NOV.2024 14:15:36

Band Edge(Hopping) NVNT 2.4G 2478MHz Ant1 Hopping Emission



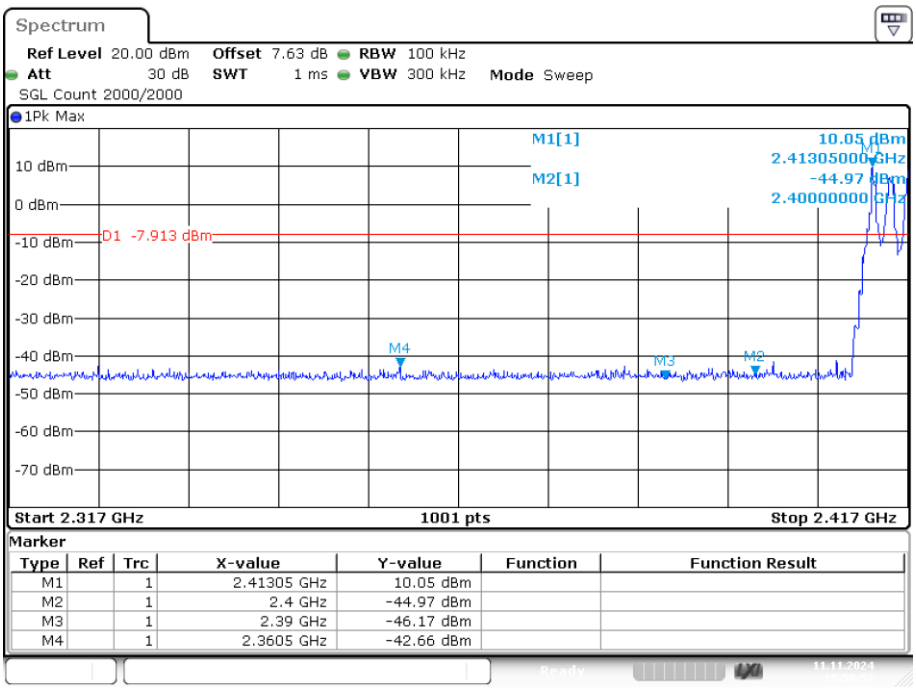
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.47805 GHz	9.20 dBm		
M2		1	2.4835 GHz	-44.37 dBm		
M3		1	2.5 GHz	-44.86 dBm		
M4		1	2.4942 GHz	-43.48 dBm		

Date: 11.NOV.2024 14:19:54

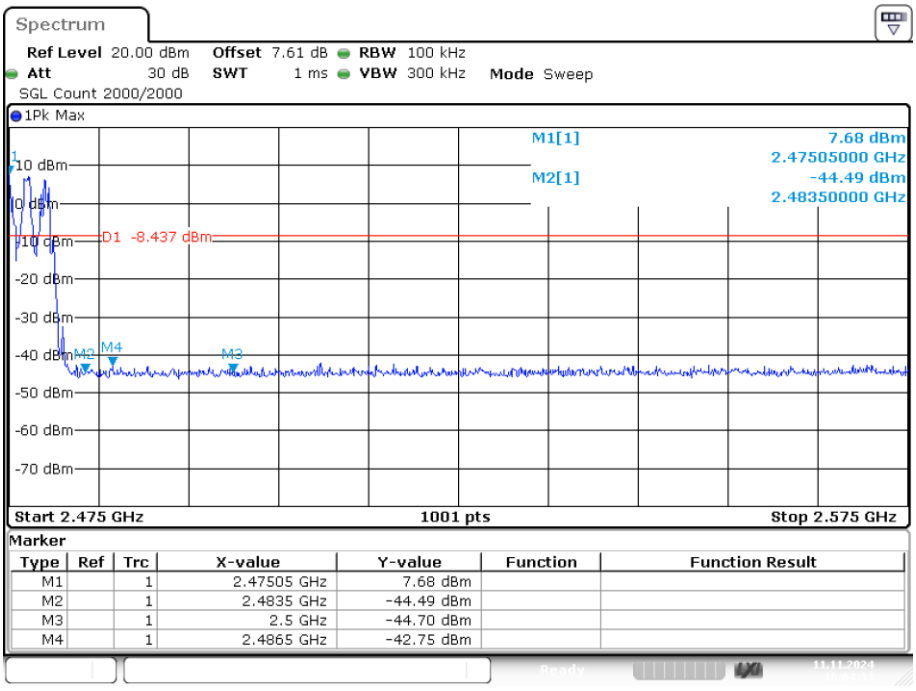
2413-2479MHz

Band Edge(Hopping) NVNT 2.4G 2413MHz Ant1 Hopping Emission



Date: 11.NOV.2024 15:58:56

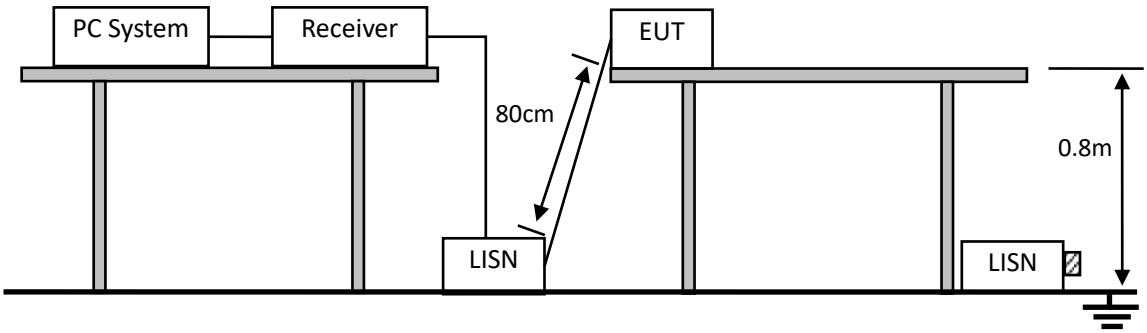
Band Edge(Hopping) NVNT 2.4G 2479MHz Ant1 Hopping Emission



Date: 11.NOV.2024 16:04:33

10. POWER LINE CONDUCTED EMISSIONS

10.1.Block Diagram of Test Setup



:50Ω Terminator

10.2.Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

10.3.Test Procedure

(1) The EUT was placed on a non-metallic table, 80cm above the ground plane.

(2) Setup the EUT and simulator as shown in 10.1

(3) The EUT Power connected to the power mains through a power adapter and a line impedance stabilization network (L.I.S.N1). The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N2), this provided a 50-ohm coupling impedance for the EUT (Please refer to the block diagram of the test setup and photographs). Both sides of power line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 :2013on conducted Emission test.

(4) The bandwidth of test receiver is set at 10KHz.

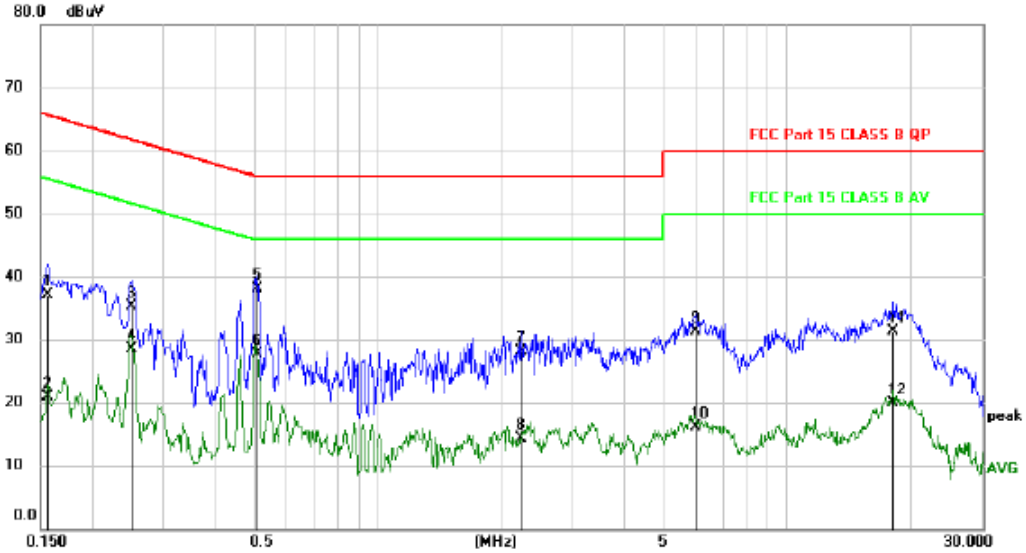
(5) The frequency range from 150 KHz to 30MHz is checked.

10.4.Test Result

PASS. (See below detailed test data)

Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

Line:

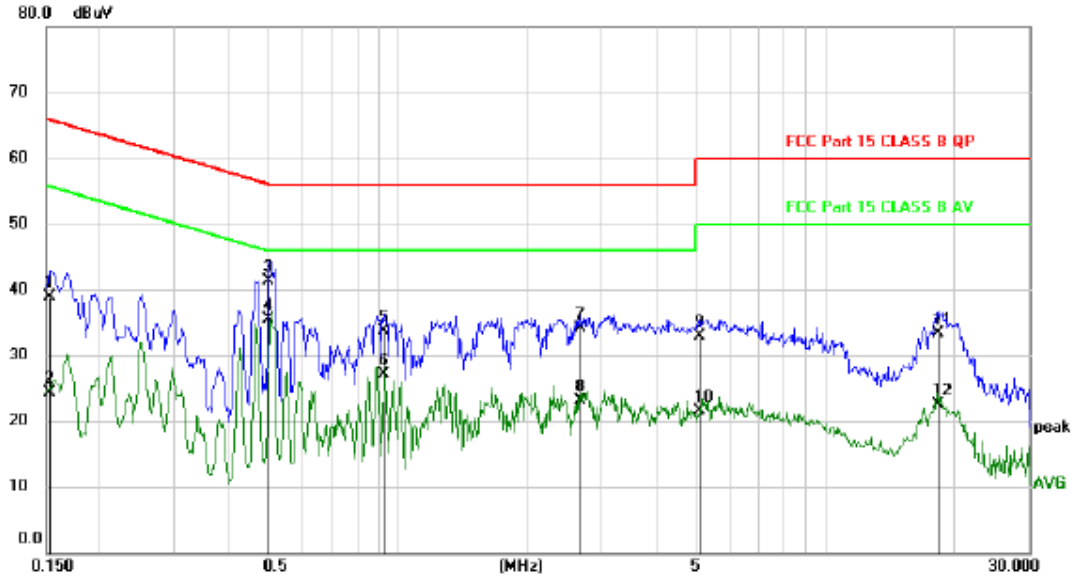


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1559	27.14	9.94	37.08	65.68	-28.60	QP	
2		0.1559	11.05	9.94	20.99	55.68	-34.69	AVG	
3		0.2494	25.31	9.97	35.28	61.78	-26.50	QP	
4		0.2494	18.50	9.97	28.47	51.78	-23.31	AVG	
5	*	0.5100	28.08	9.96	38.04	56.00	-17.96	QP	
6		0.5100	17.73	9.96	27.69	46.00	-18.31	AVG	
7		2.2468	18.23	9.89	28.12	56.00	-27.88	QP	
8		2.2468	4.32	9.89	14.21	46.00	-31.79	AVG	
9		5.9640	21.30	10.08	31.38	60.00	-28.62	QP	
10		5.9640	5.95	10.08	16.03	50.00	-33.97	AVG	
11		18.1738	20.80	10.42	31.22	60.00	-28.78	QP	
12		18.1738	9.44	10.42	19.86	50.00	-30.14	AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Neutral:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1529	28.98	9.94	38.92	65.84	-26.92	QP	
2		0.1529	14.33	9.94	24.27	55.84	-31.57	AVG	
3		0.4979	31.29	9.96	41.25	56.03	-14.78	QP	
4	*	0.4979	25.56	9.96	35.52	46.03	-10.51	AVG	
5		0.9270	23.81	9.96	33.77	56.00	-22.23	QP	
6		0.9270	17.12	9.96	27.08	46.00	-18.92	AVG	
7		2.6728	24.16	9.92	34.08	56.00	-21.92	QP	
8		2.6728	13.19	9.92	23.11	46.00	-22.89	AVG	
9		5.0670	22.83	10.04	32.87	60.00	-27.13	QP	
10		5.0670	11.54	10.04	21.58	50.00	-28.42	AVG	
11		18.3779	22.82	10.42	33.24	60.00	-26.76	QP	
12		18.3779	12.15	10.42	22.57	50.00	-27.43	AVG	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Note: All modes and channels have been tested and only the GFSK 2413MHz mode with the worst data is listed.

11. ANTENNA REQUIREMENTS

11.1.Limit

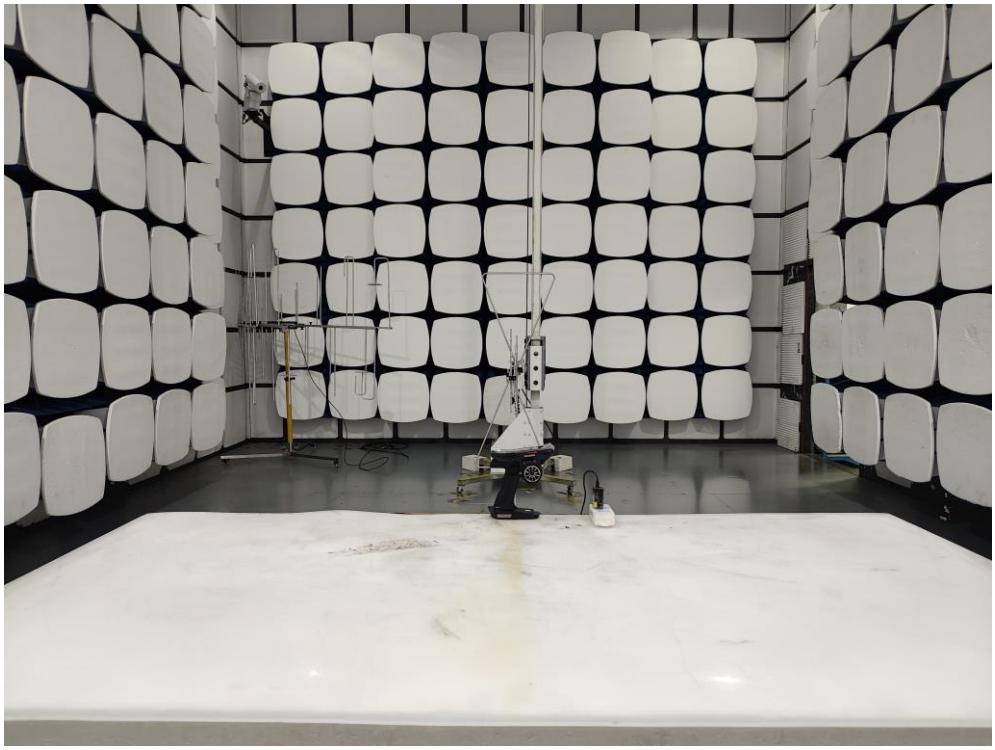
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

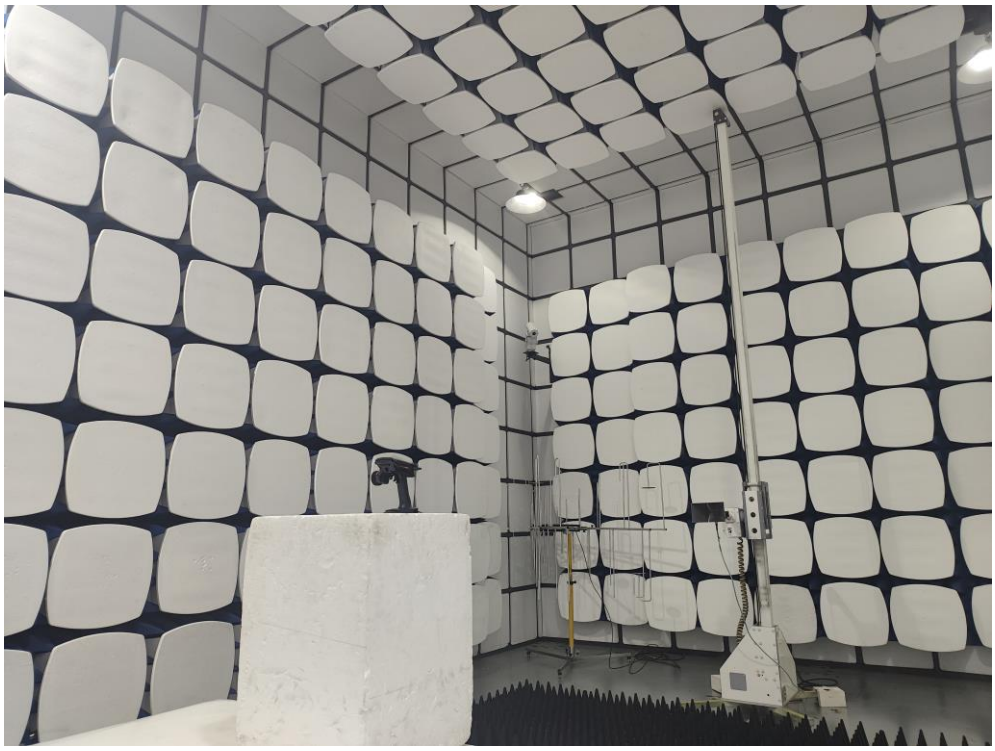
11.2.Result

The EUT antenna is Internal Antenna. It complies with the standard requirement.

12. TEST SETUP PHOTO

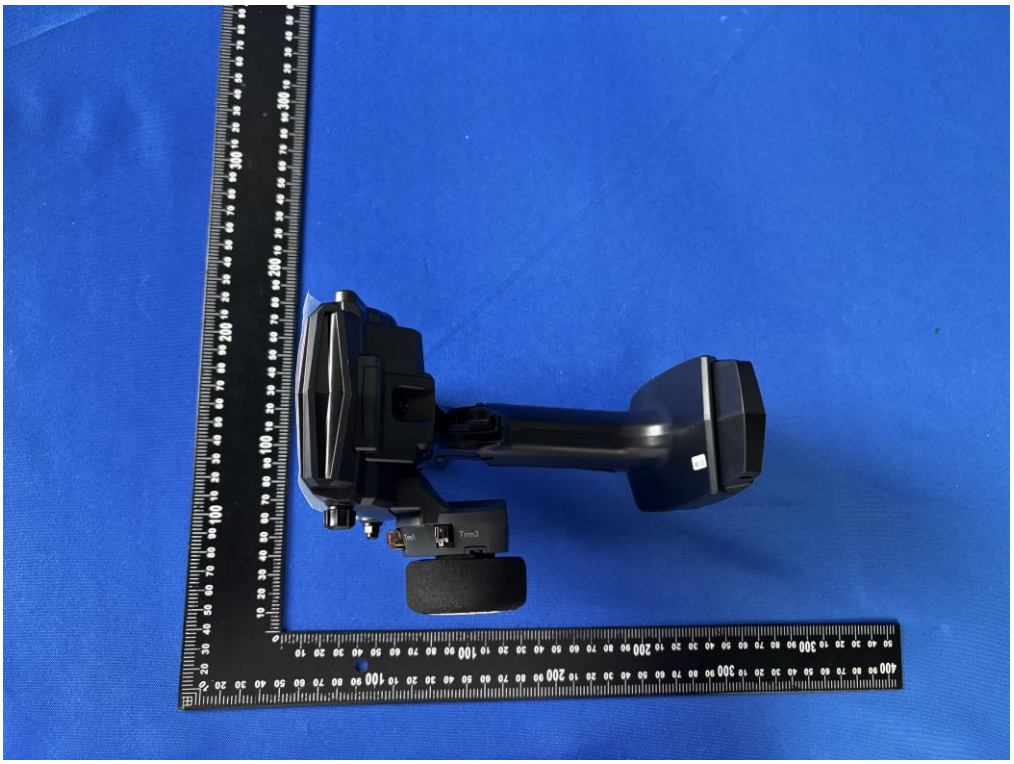
12.1.Photo of Radiated Emission test

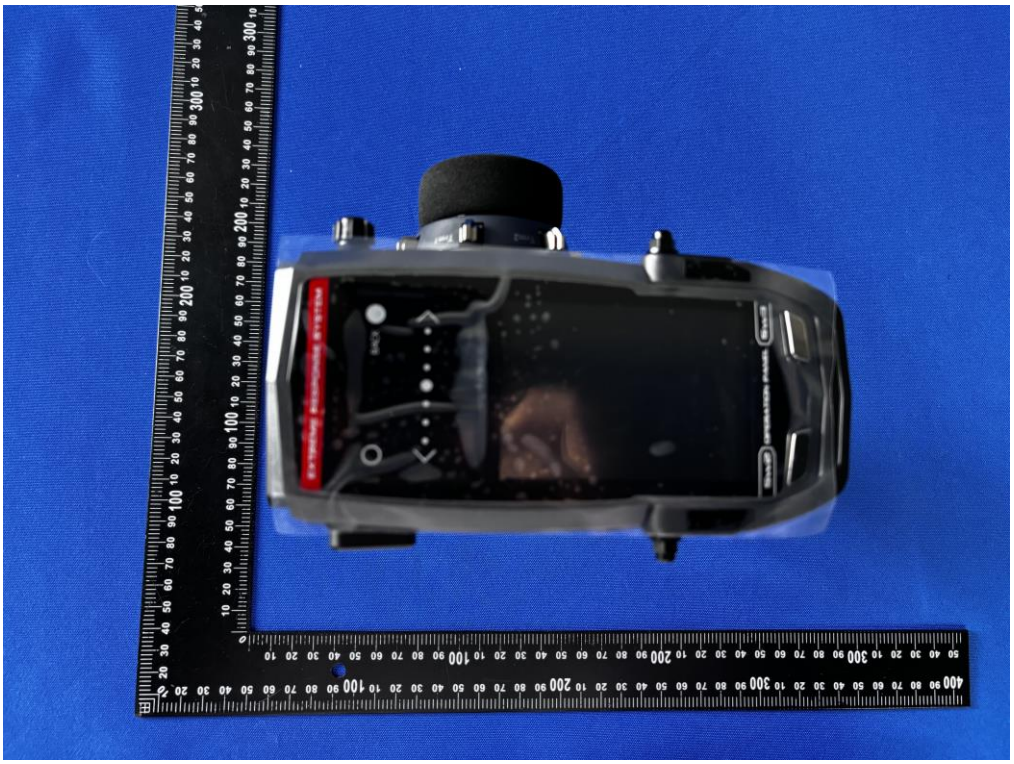


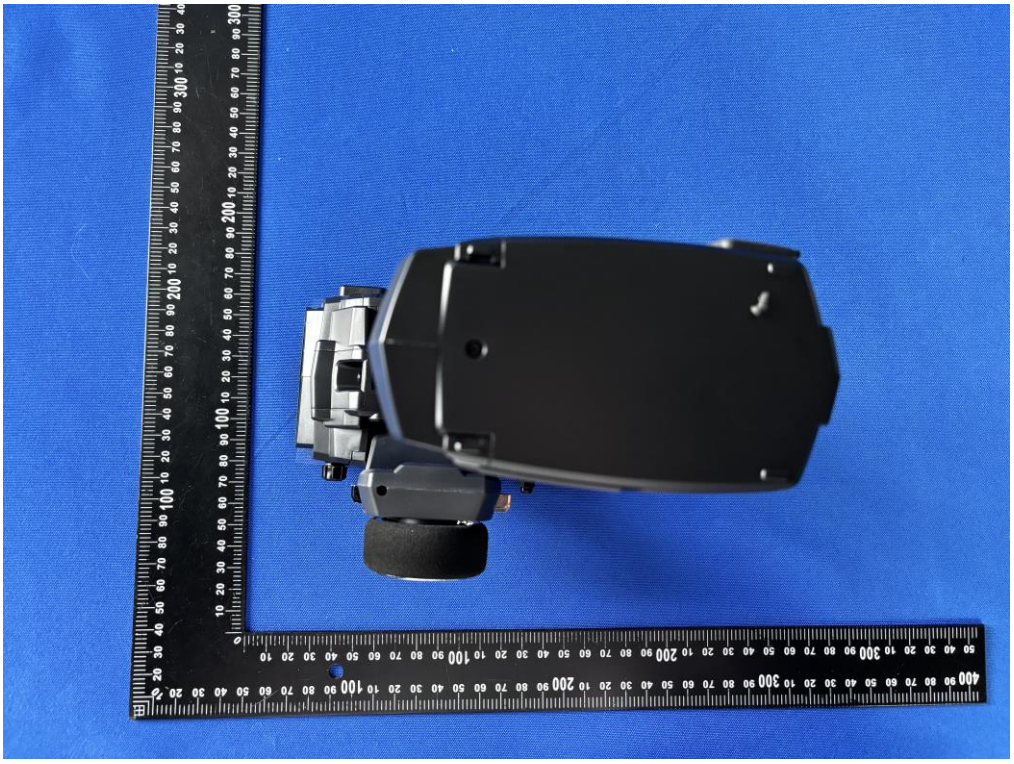


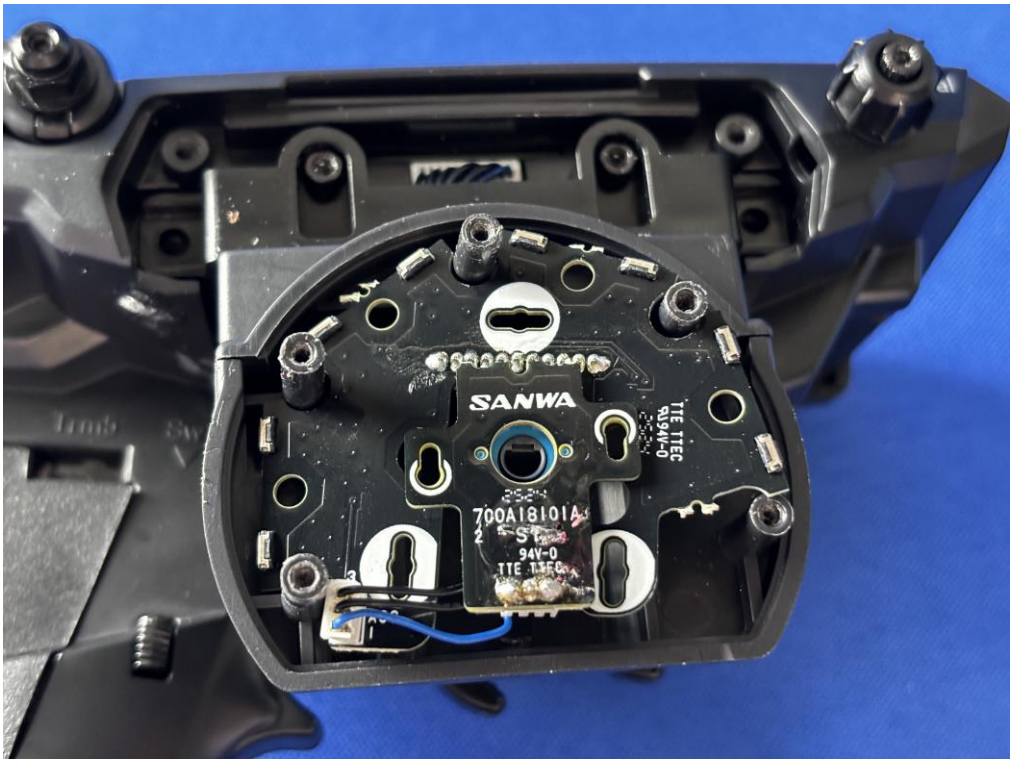
12.2.Photo of Conducted Emission test

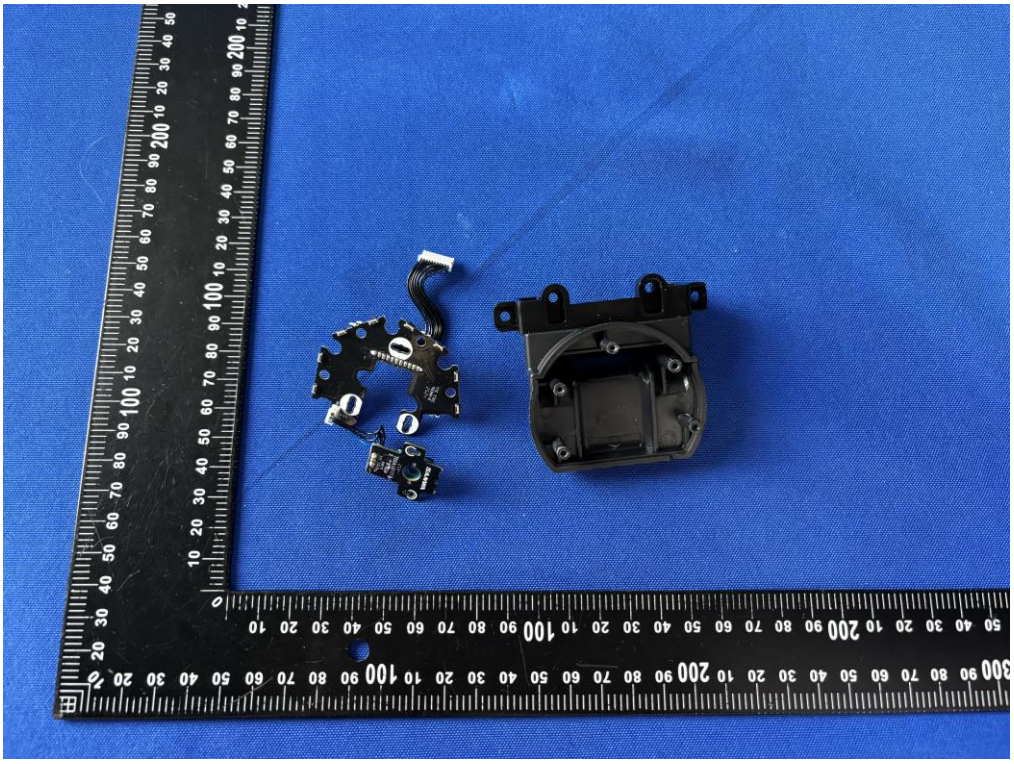
13. PHOTOS OF EUT

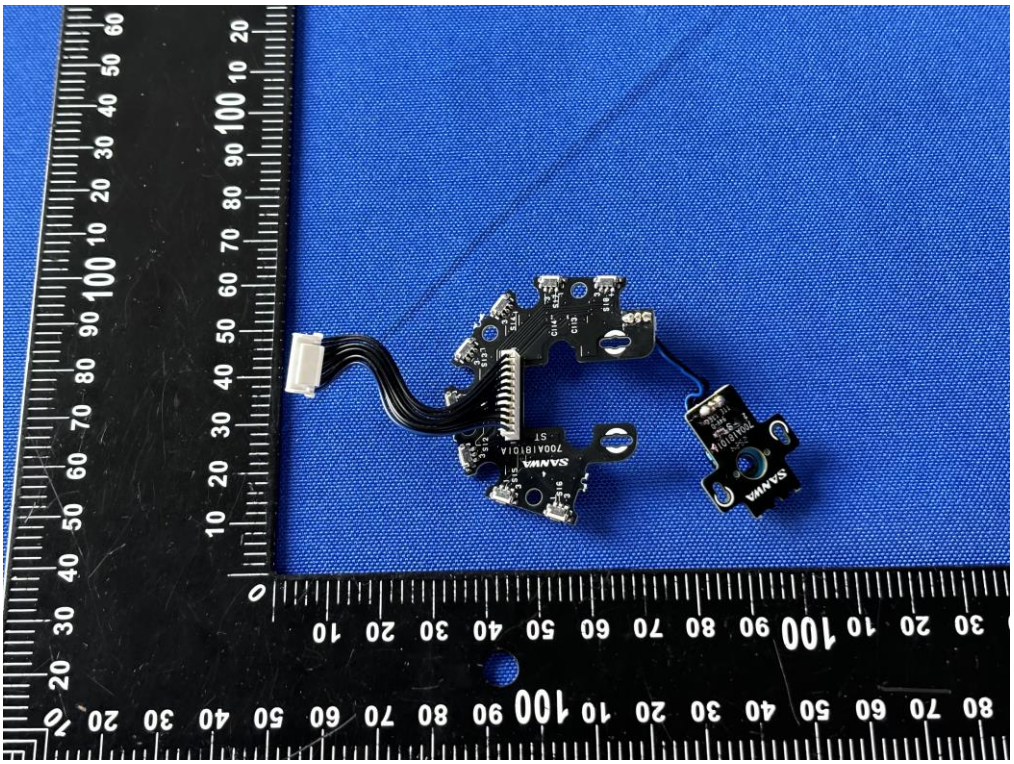


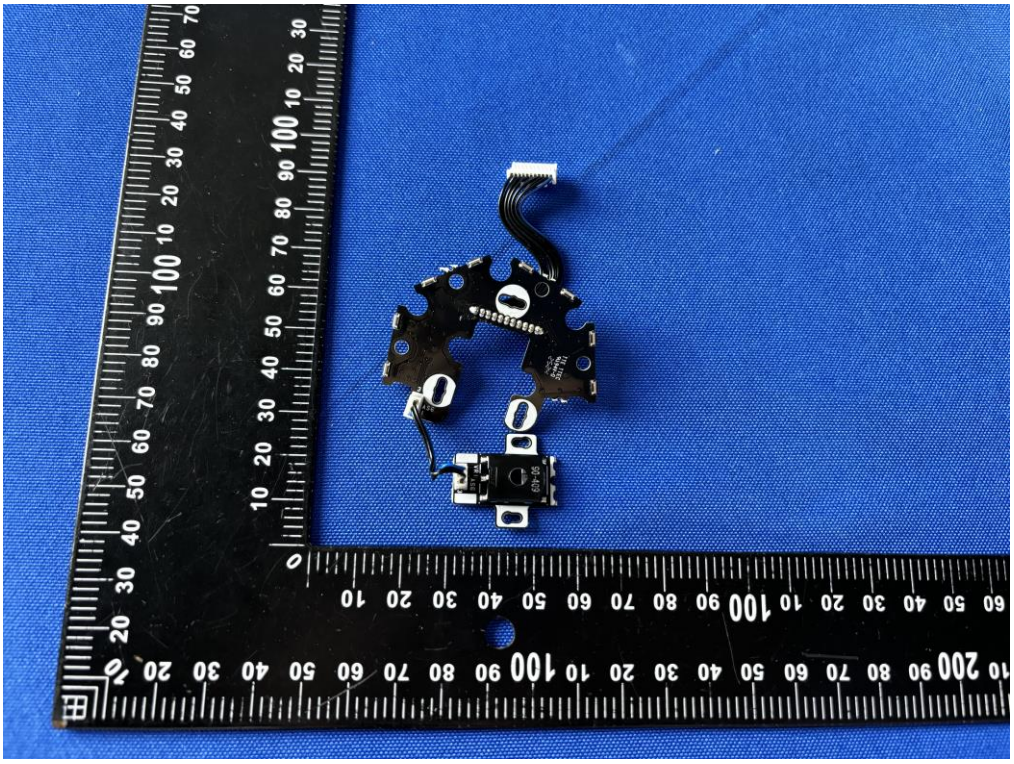




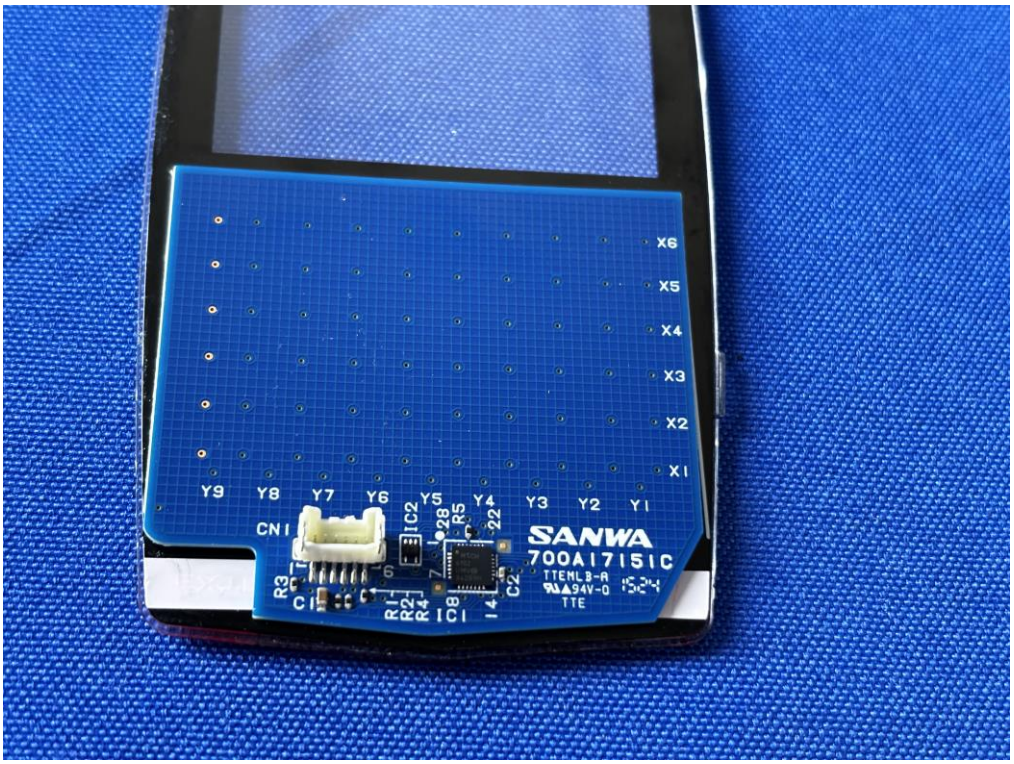

SANWA
94V-0



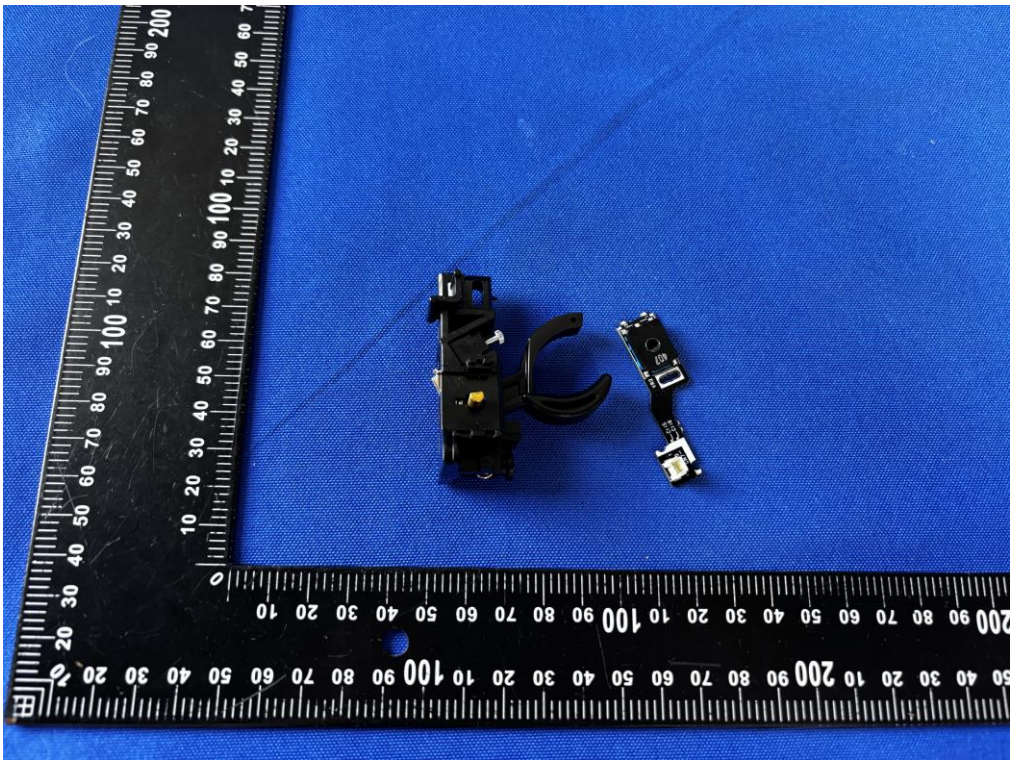


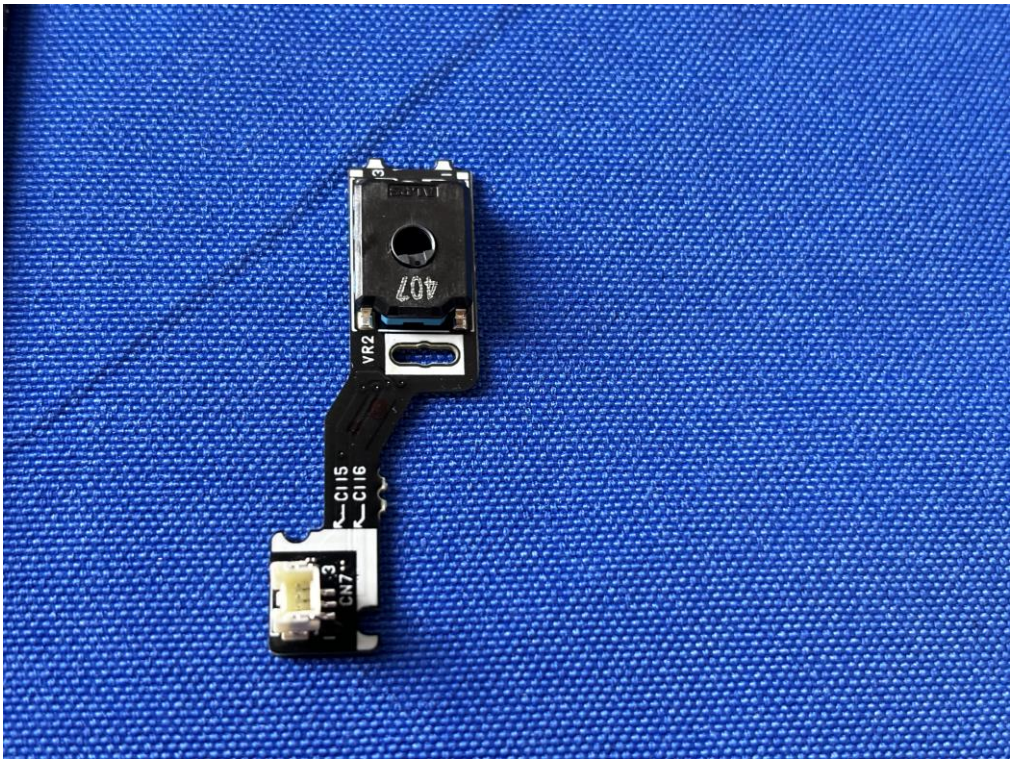



SANWA
BATTERY PACK
LP1-2500
Li-Po 3.7V 2500mAh 9.25Wh
Micro USB Input : 5.0V⎓800mA
OUTPUT : 3.7V⎓2.5A(MAX)
Rechargeable Li-Polymer Battery
1LNP6/38/62-2
Li-ion
WARNING !
To reduce the risk of fire or burns, do not disassemble
crush or puncture; do not short external contacts;
do not dispose of in fire or water.
Do not charge over 4.2V
Do not discharge under 3.0V
SANWA ELECTRONIC INSTRUMENT CO.,LTD.
MADE IN CHINA


X6
X5
X4
X3
X2
X1
Y9 Y8 Y7 Y6 Y5 Y4 Y3 Y2 Y1
CN1
SANWA
700A17151C
TTEMLB-A
94V-0
TTE


- + S




407
VR2
CI15
CI16
CN7


SANWA
3
700A1811A
TH