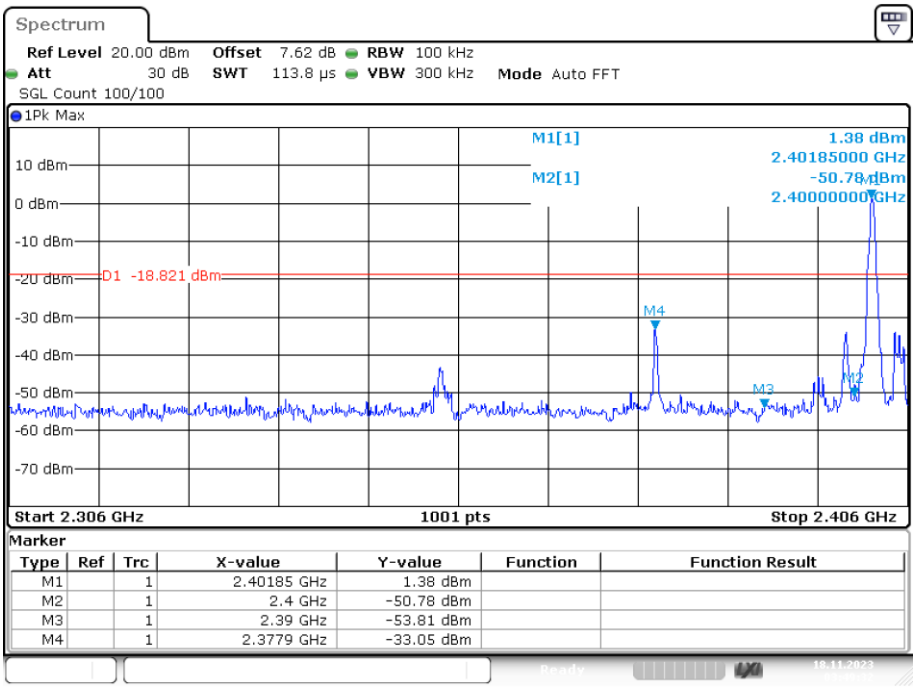
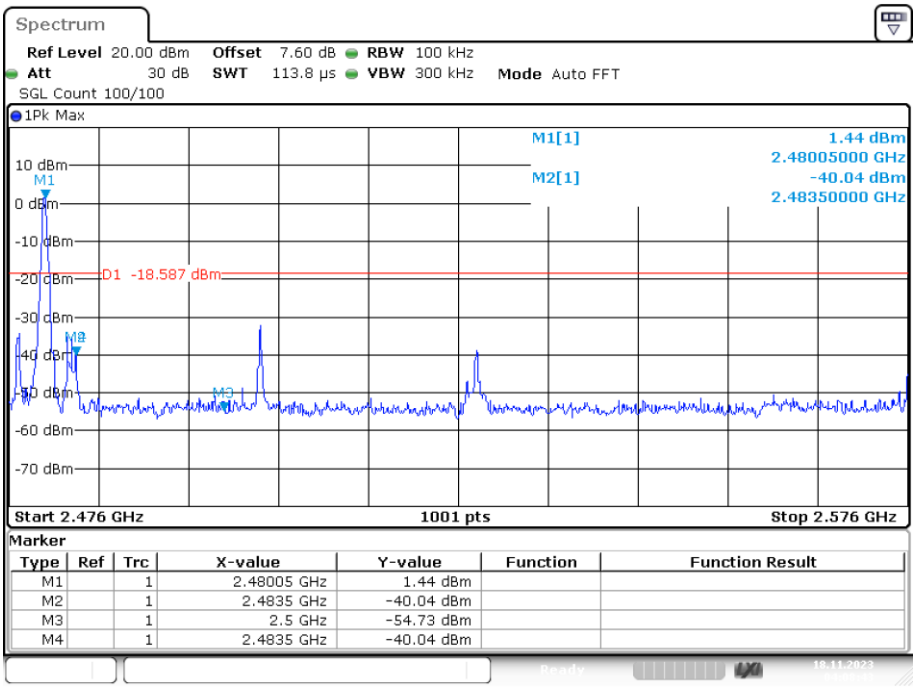
Conducted Method

Band Edge NVNT 1-DH1 2402MHz Ant1 No-Hopping Emission



Date: 18.NOV.2023 03:49:31

Band Edge NVNT 1-DH1 2480MHz Ant1 No-Hopping Emission



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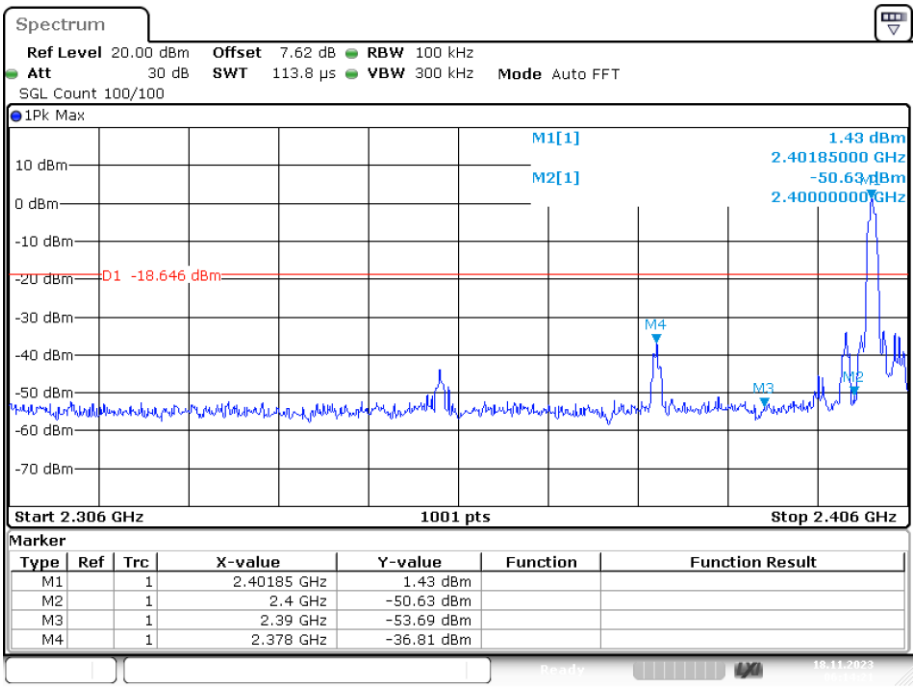
Band Edge NVNT 2-DH1 2402MHz Ant1 No-Hopping Emission



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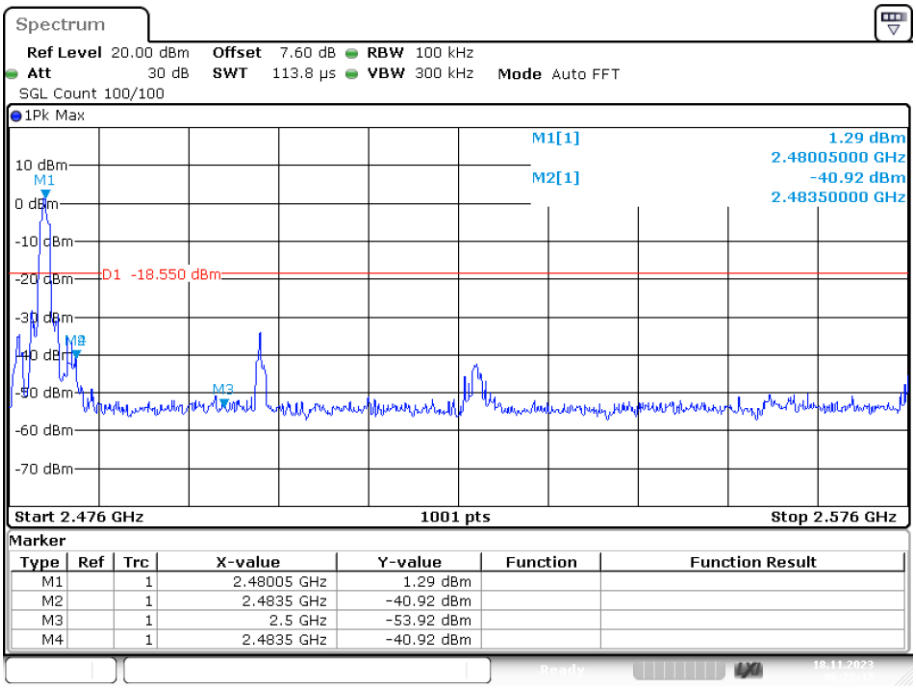
Band Edge NVNT 2-DH1 2480MHz Ant1 No-Hopping Emission



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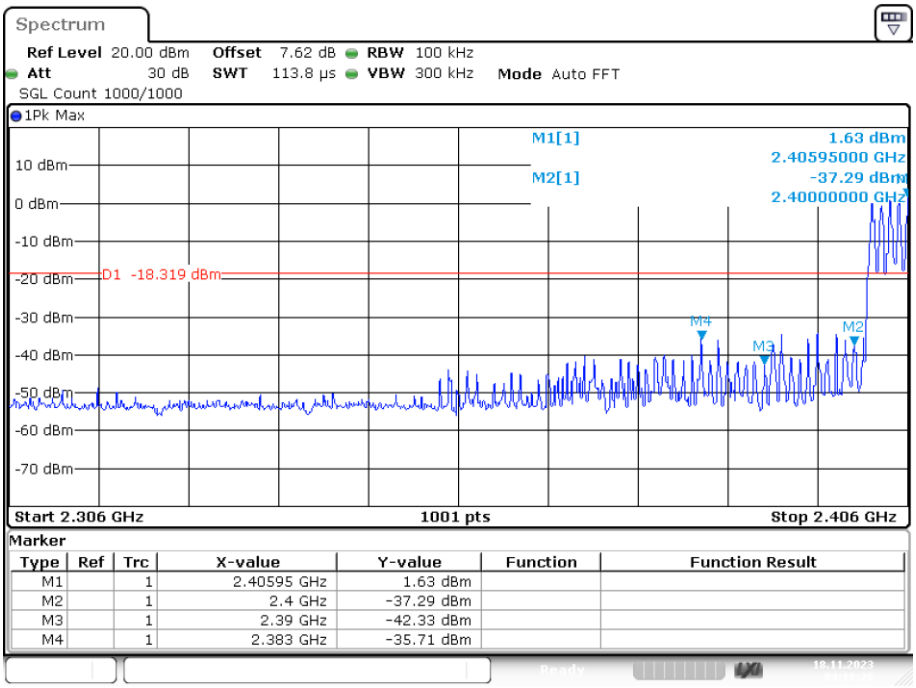
Band Edge(Hopping) NVNT 1-DH1 2402MHz Ant1 Hopping Emission



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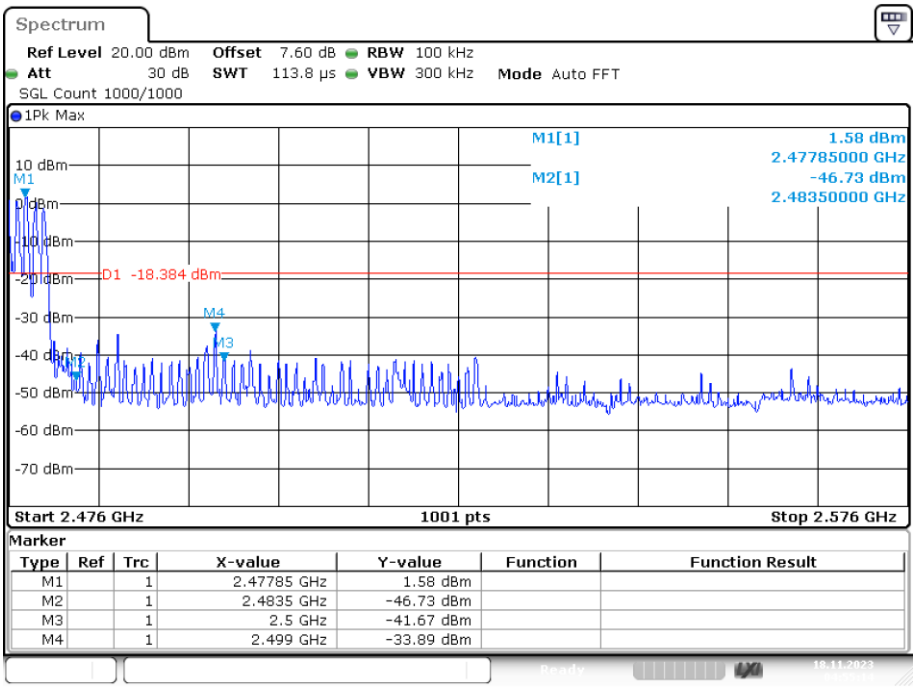
Band Edge(Hopping) NVNT 1-DH1 2480MHz Ant1 Hopping Emission



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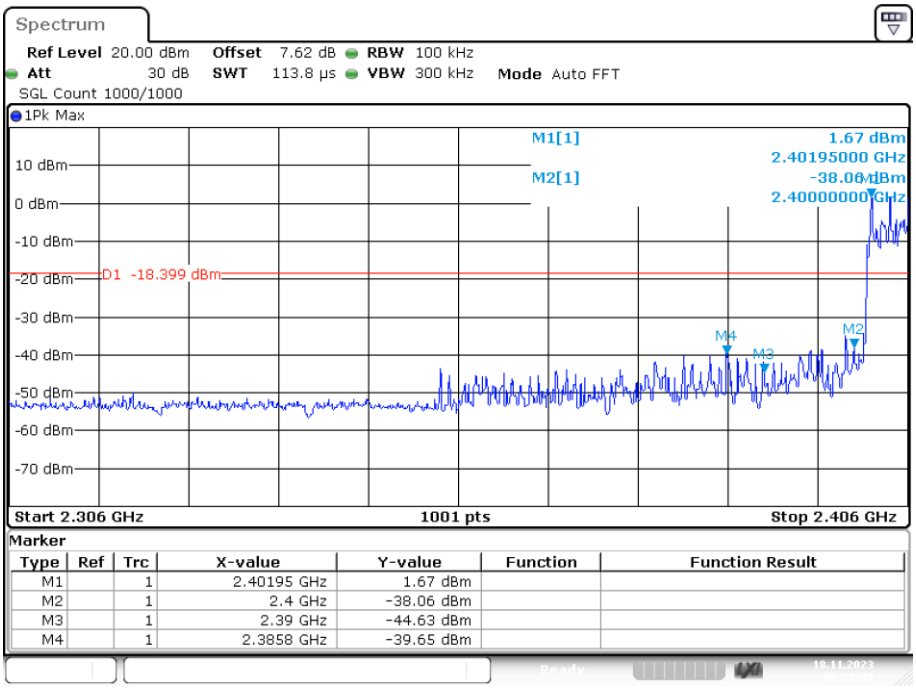
Band Edge(Hopping) NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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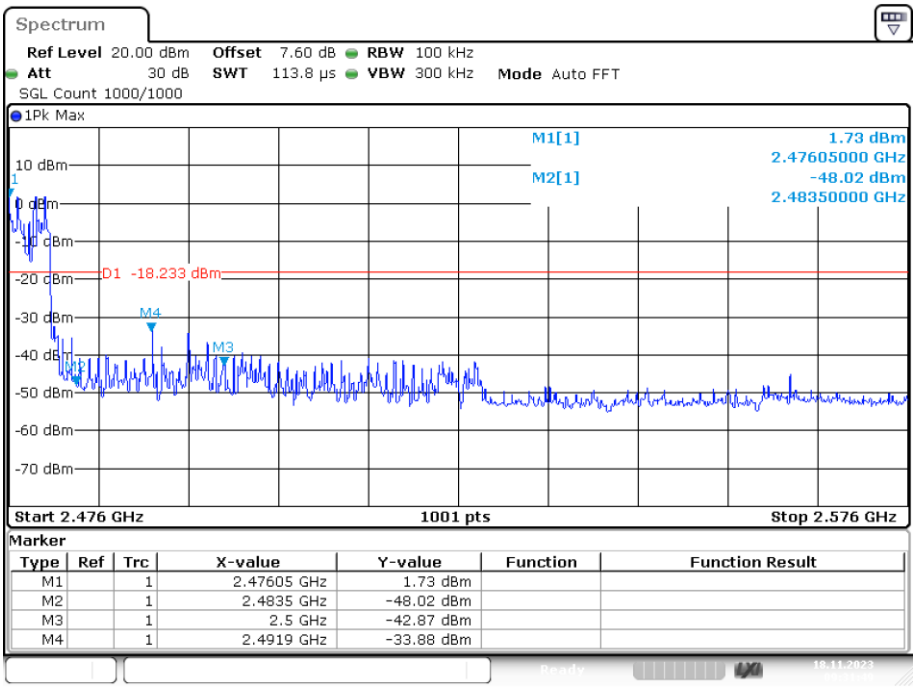
Band Edge(Hopping) NVNT 2-DH1 2480MHz Ant1 Hopping Emission



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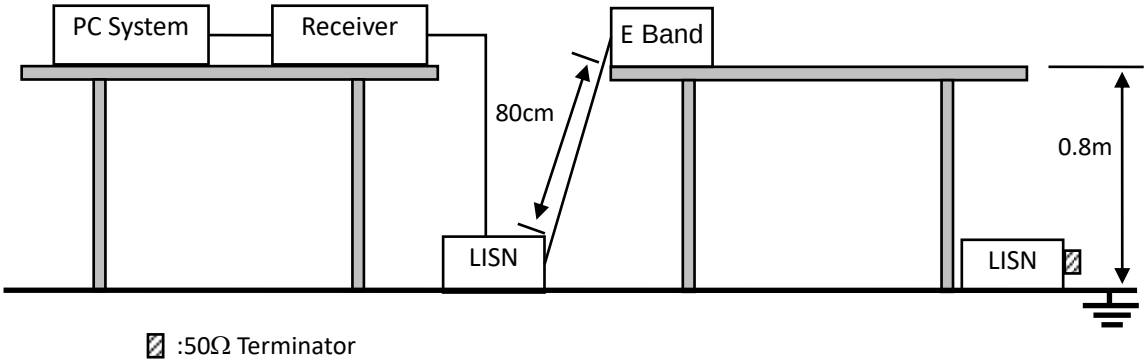
10. POWER LINE CONDUCTED EMISSIONS

10.1.Block Diagram of Test Setup



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.

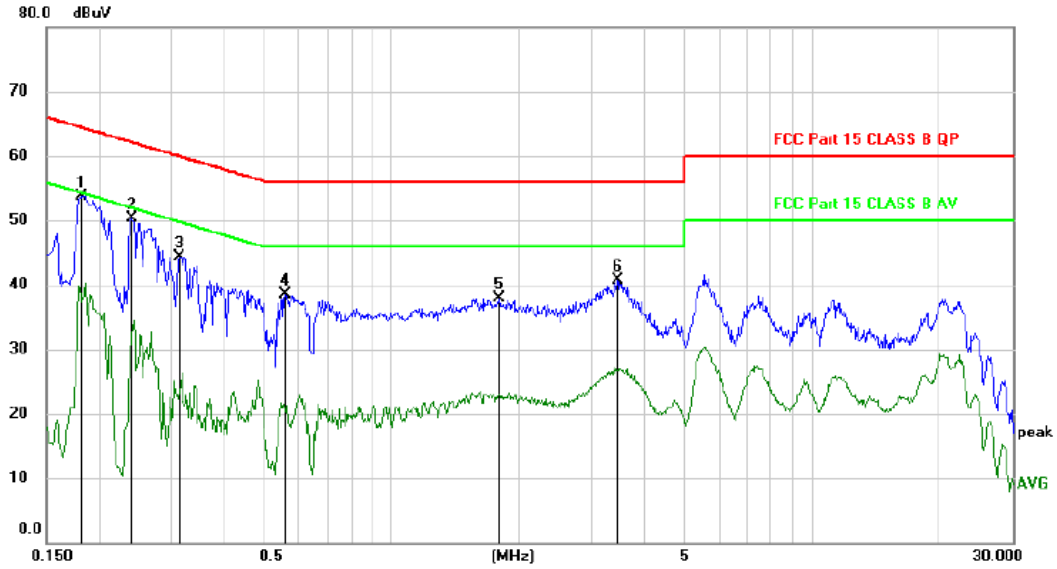
(5) The frequency range from 150 KHz to 30MHz is checked.

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:

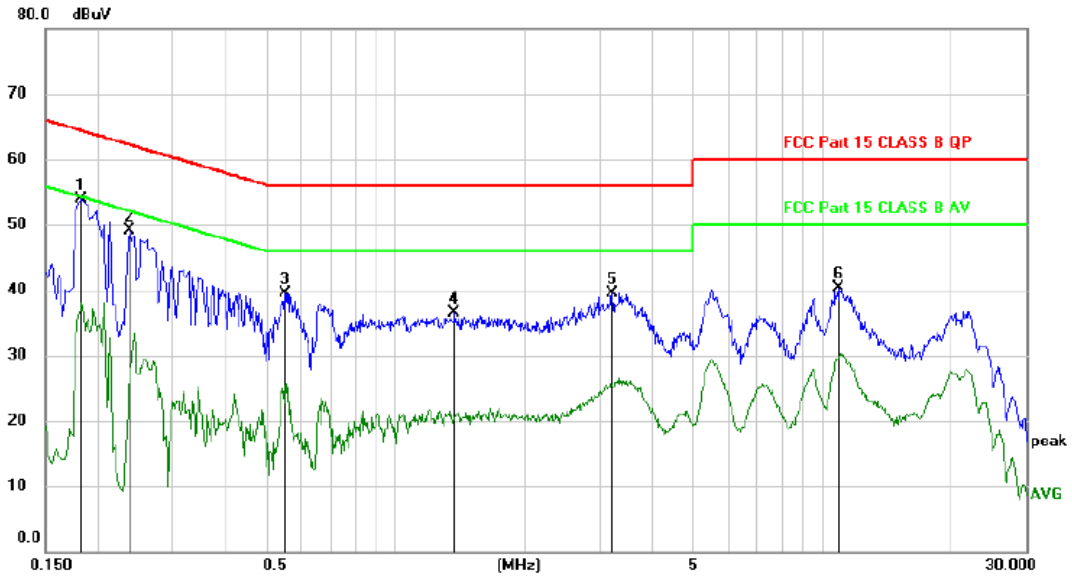


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1830	43.86	9.93	53.79	64.35	-10.56	peak	
2		0.2400	40.27	9.96	50.23	62.10	-11.87	peak	
3		0.3120	34.46	9.93	44.39	59.92	-15.53	peak	
4		0.5580	28.49	9.94	38.43	56.00	-17.57	peak	
5		1.8030	28.10	9.89	37.99	56.00	-18.01	peak	
6		3.4380	30.81	9.96	40.77	56.00	-15.23	peak	

*: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	*	0.1830	44.07	9.93	54.00	64.35	-10.35	peak	
2		0.2370	39.10	9.96	49.06	62.20	-13.14	peak	
3		0.5490	29.62	9.94	39.56	56.00	-16.44	peak	
4		1.3680	26.63	9.89	36.52	56.00	-19.48	peak	
5		3.2220	29.62	9.96	39.58	56.00	-16.42	peak	
6		10.9500	30.14	10.23	40.37	60.00	-19.63	peak	

*: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 2402MHz mode with the worst data is listed.

11. ANTENNA REQUIREMENTS

11.1.Limit

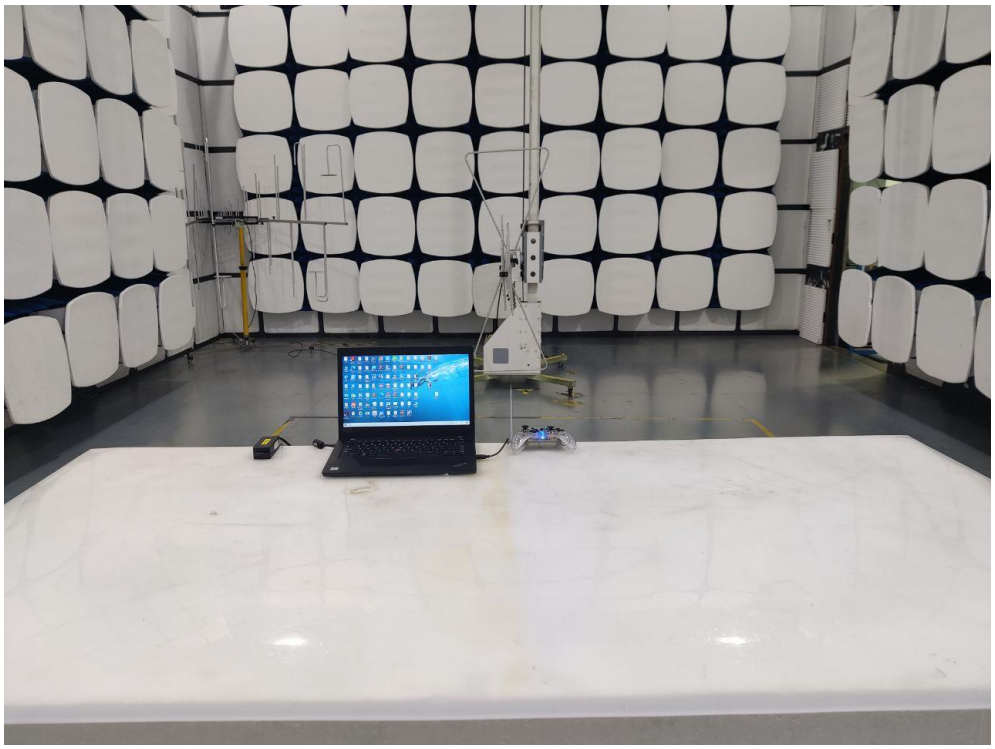
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional 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.

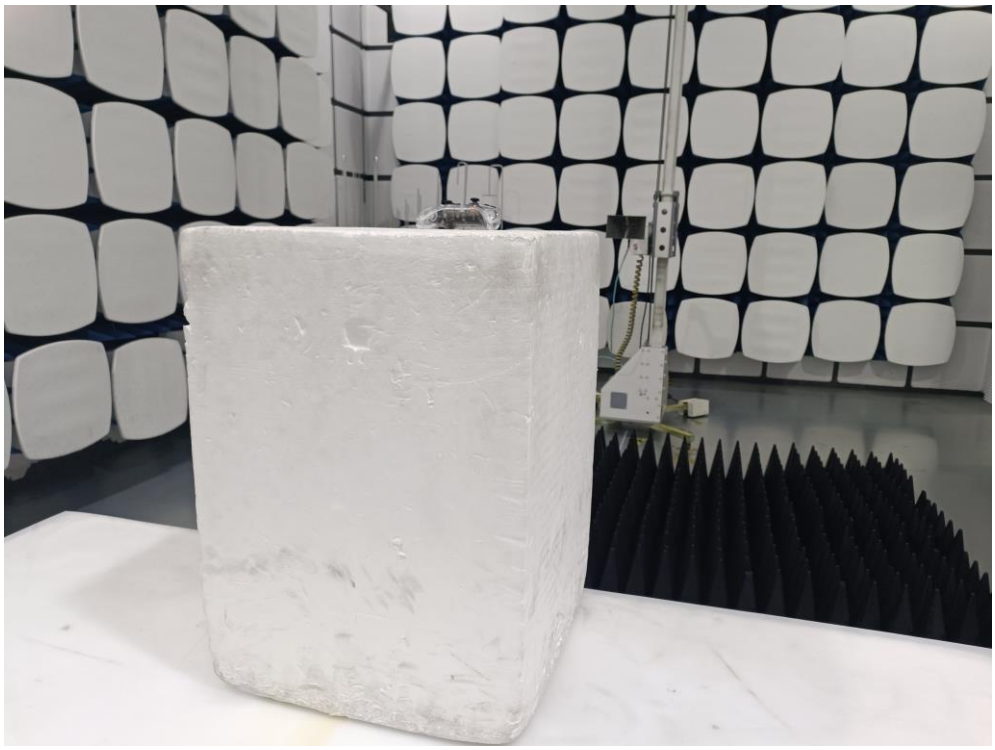
11.2.Result

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

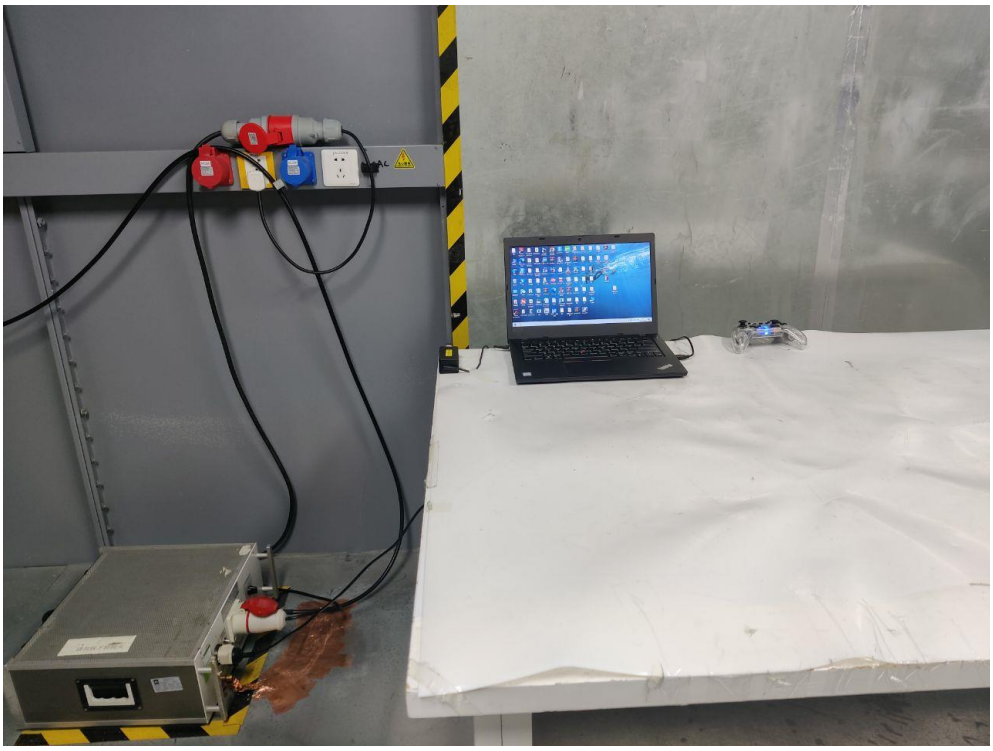
12. TEST SETUP PHOTO

12.1.Photo of Radiated Emission test

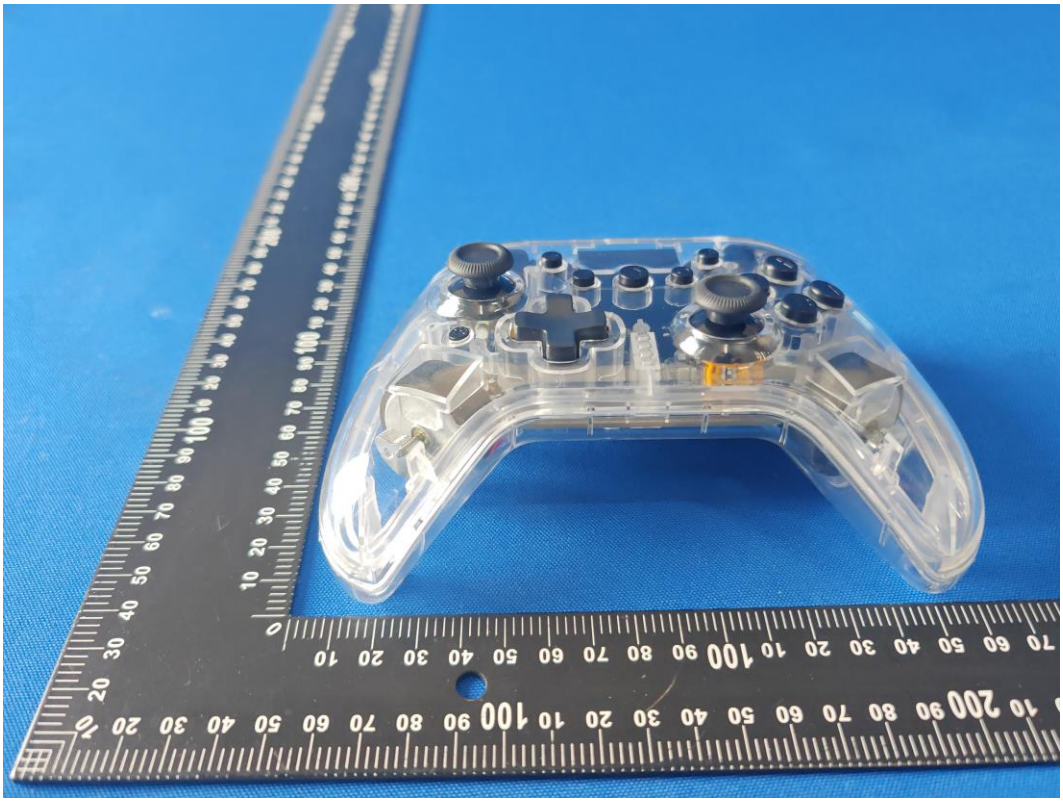


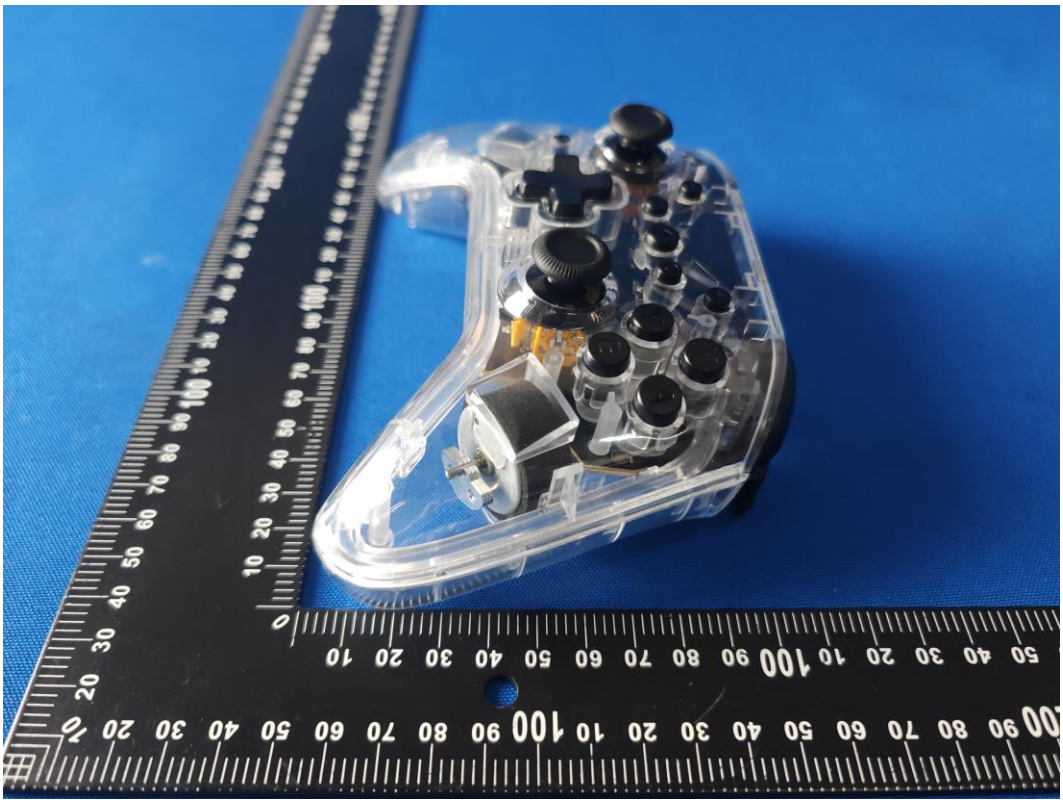


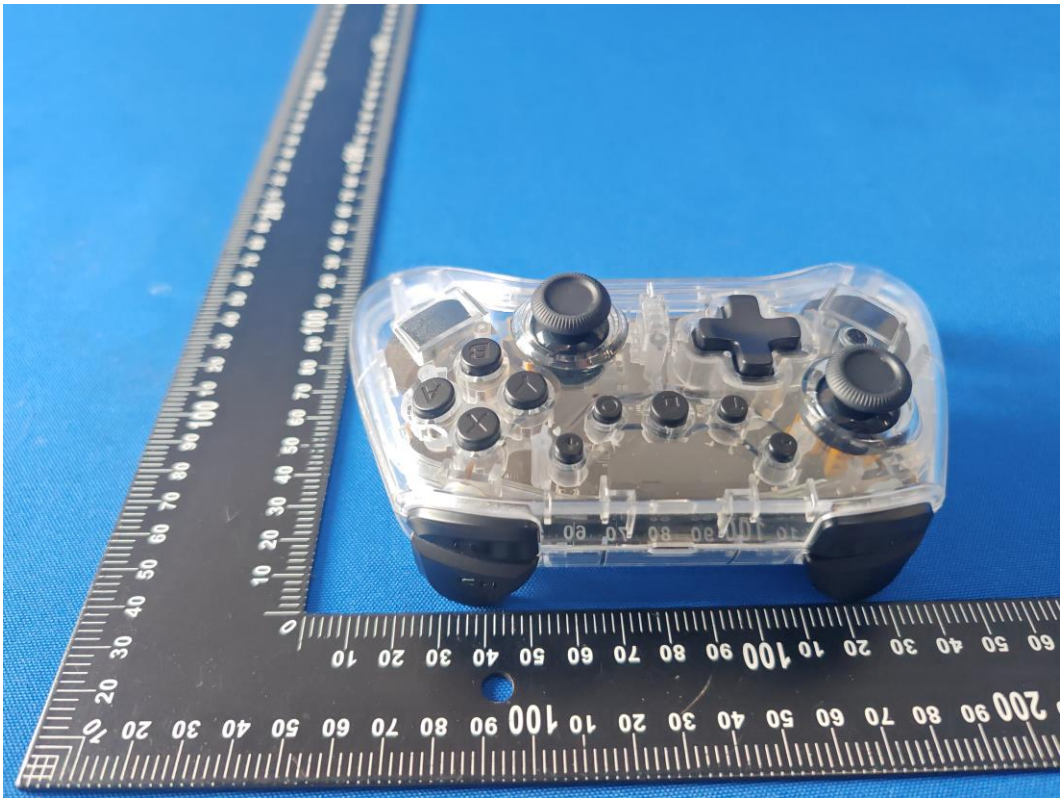
12.2.Photo of Conducted Emission test

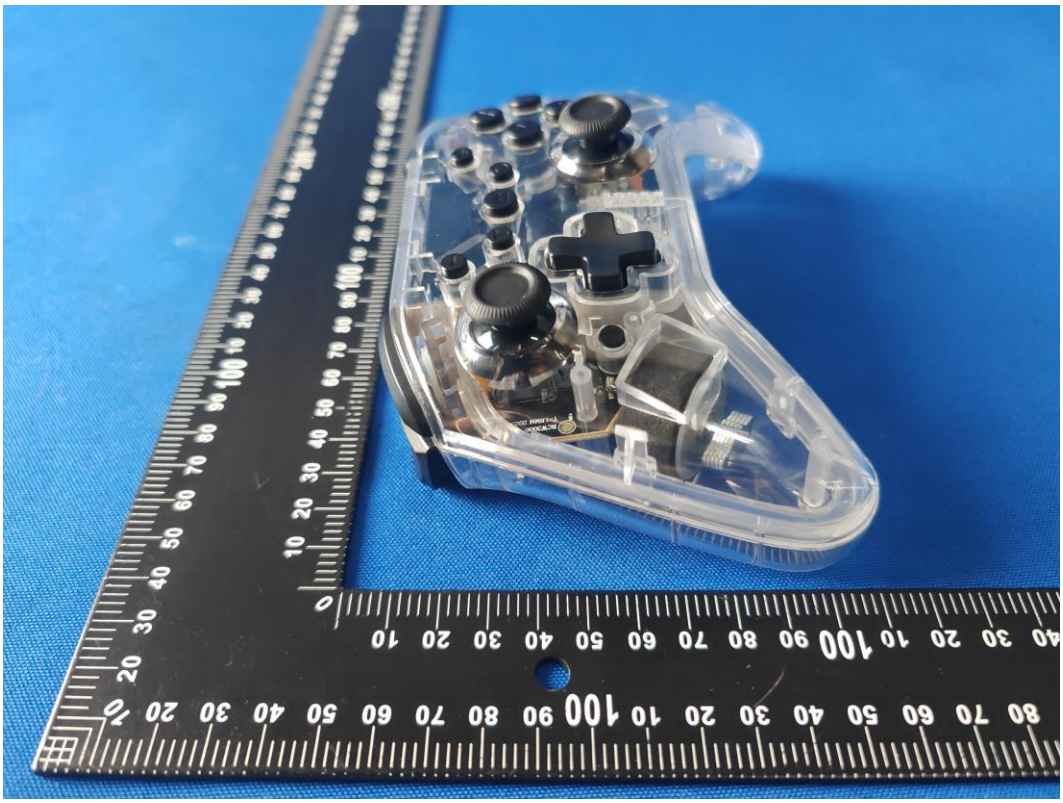


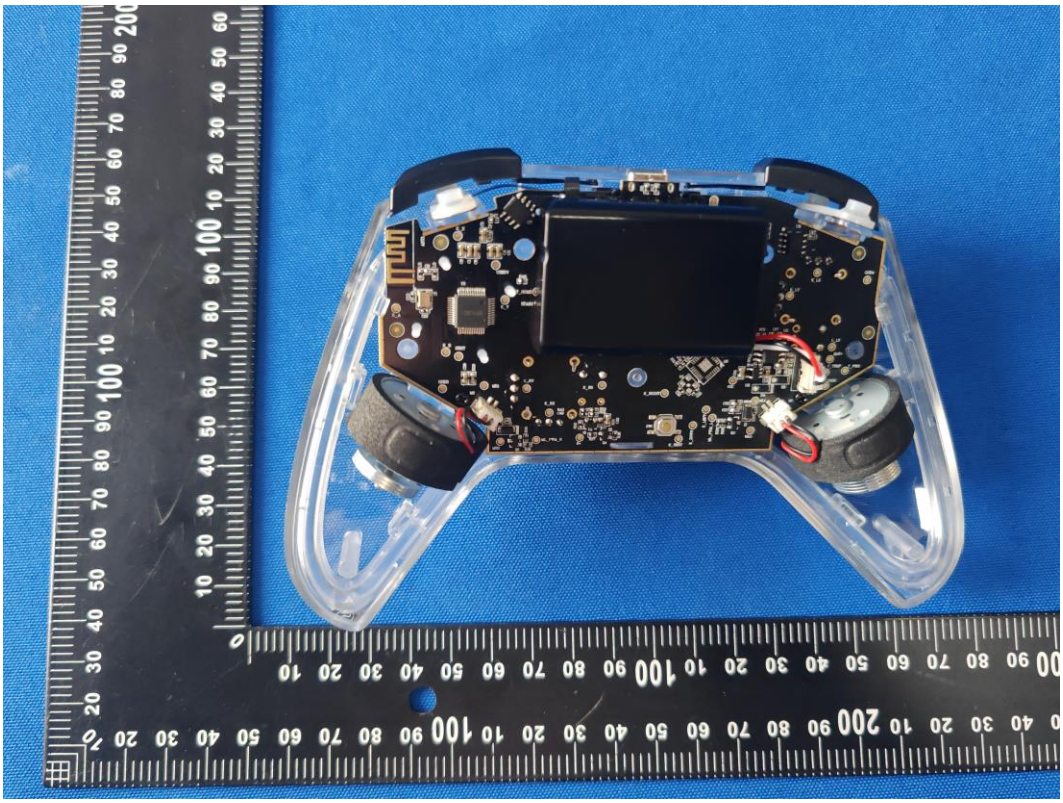
13. EUT PHOTOS

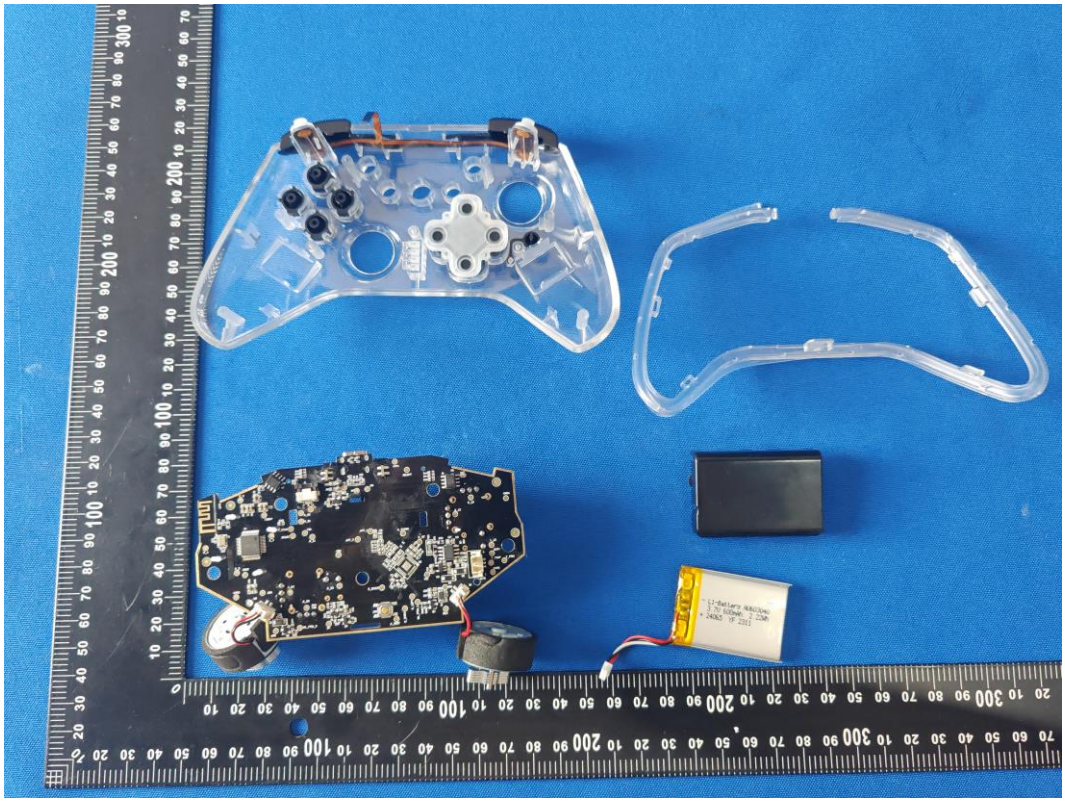


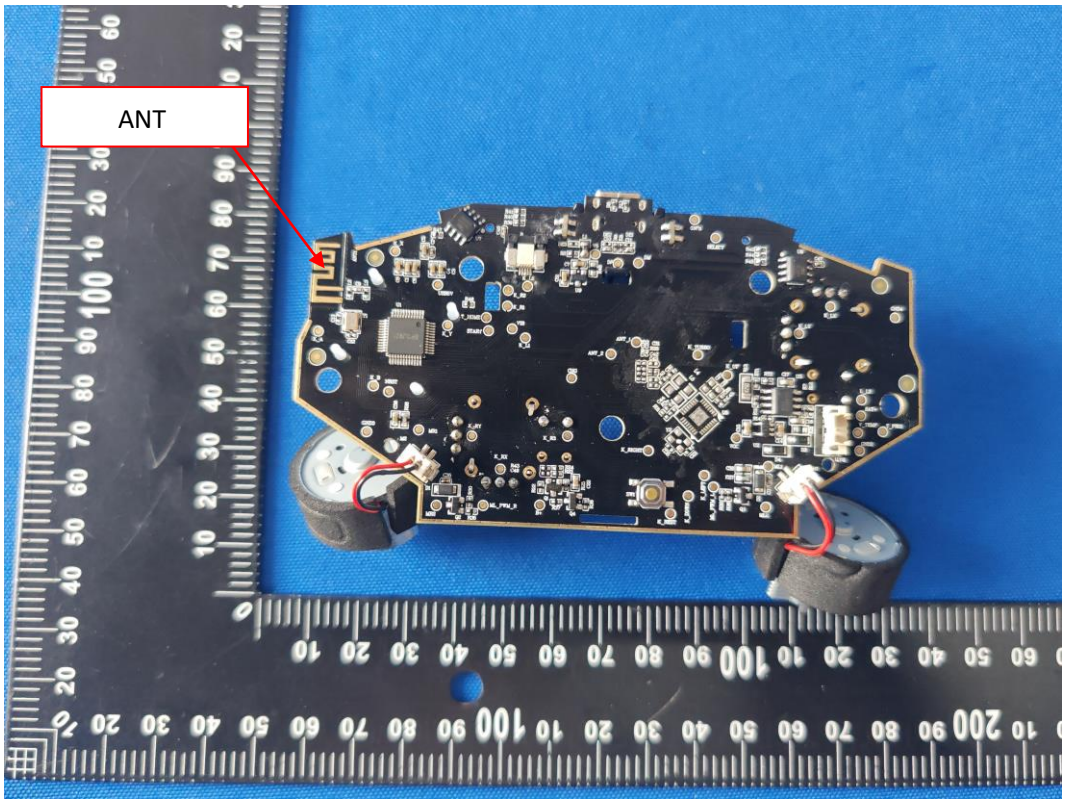








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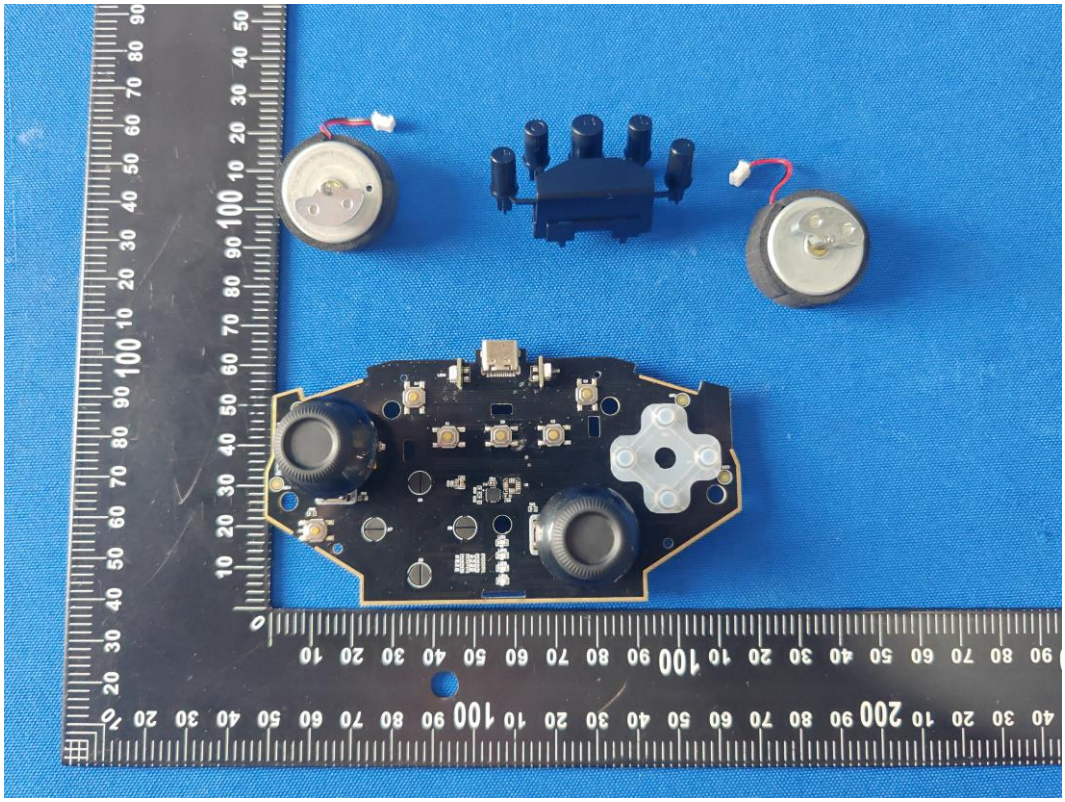

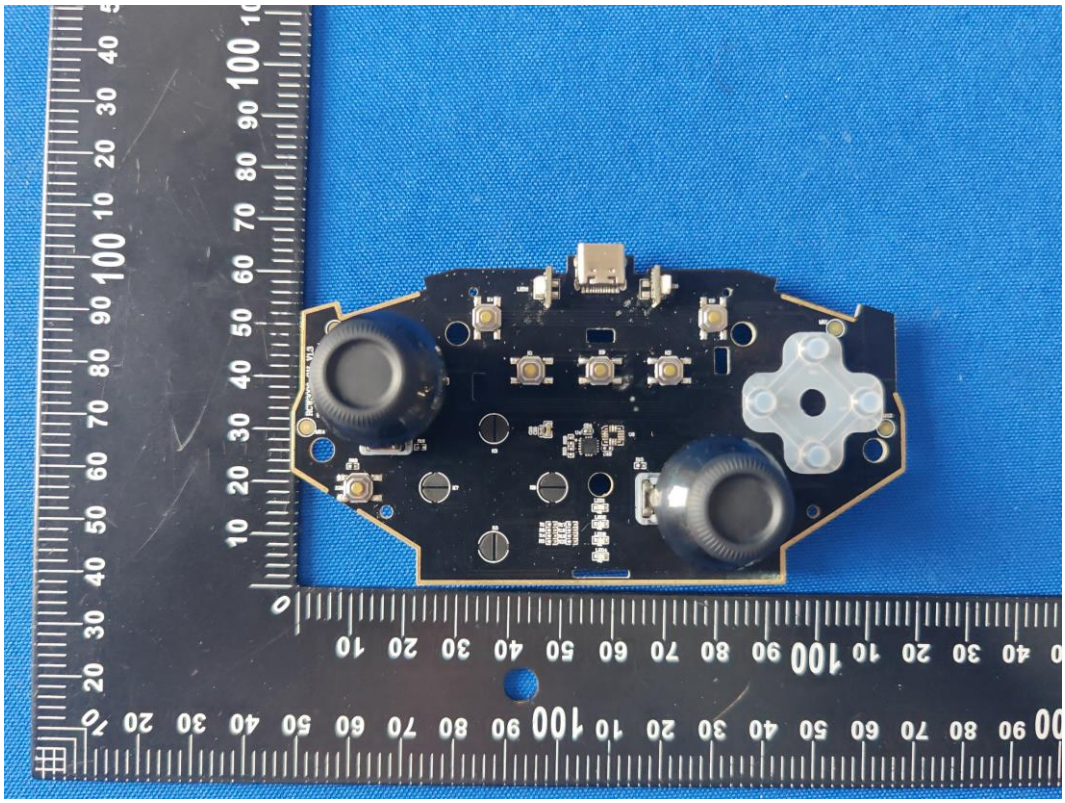

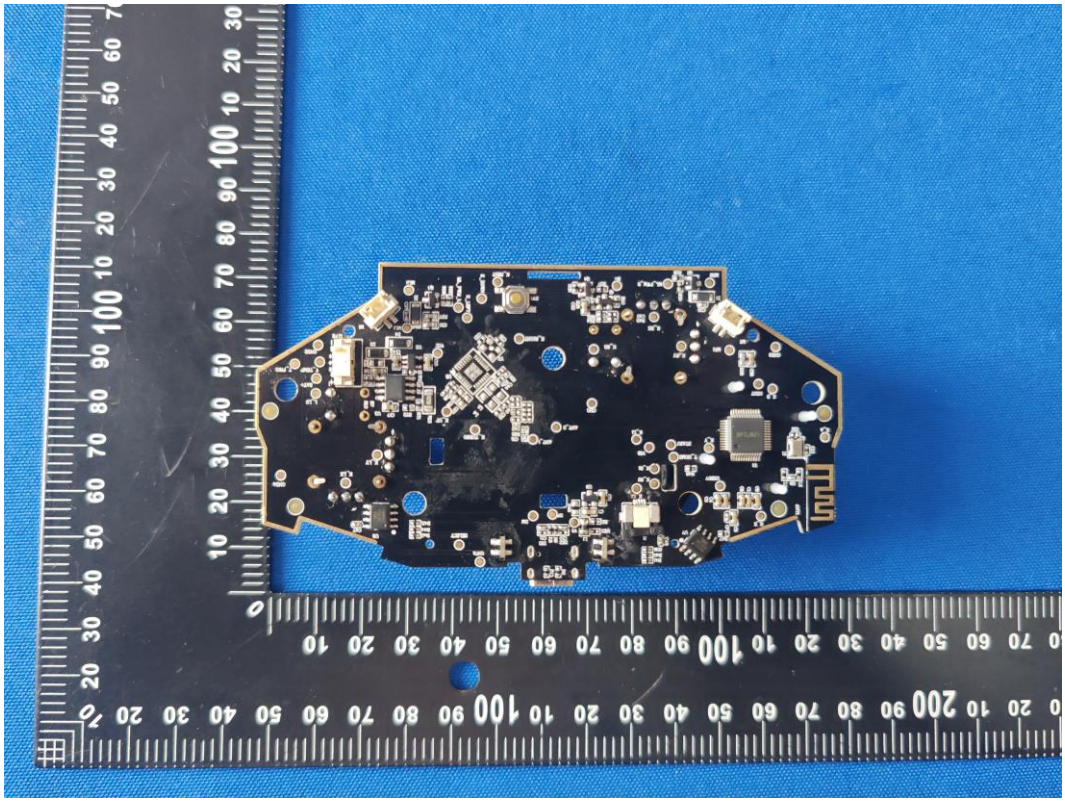

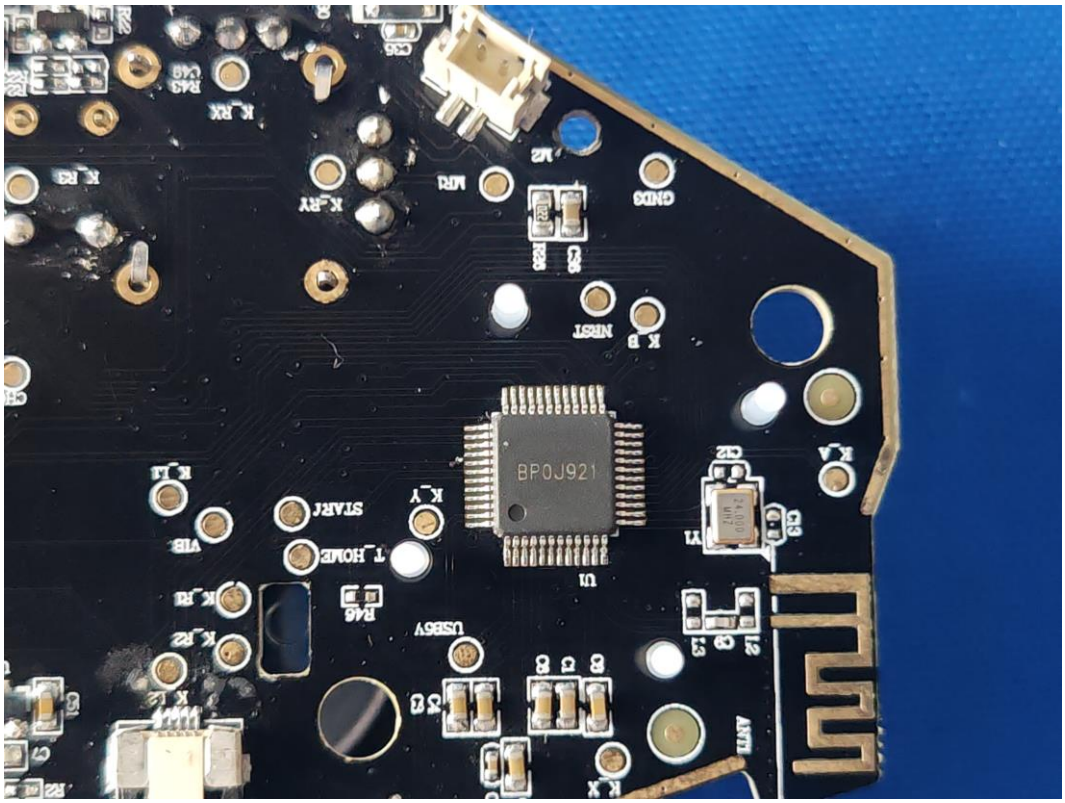

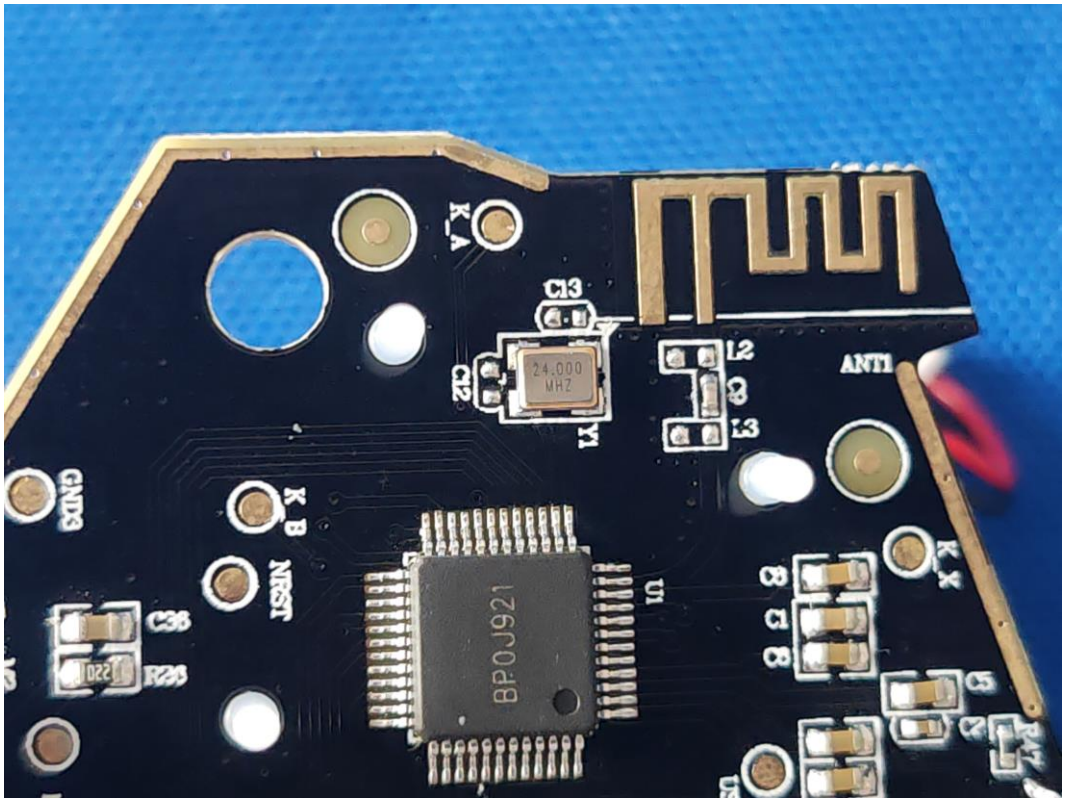

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