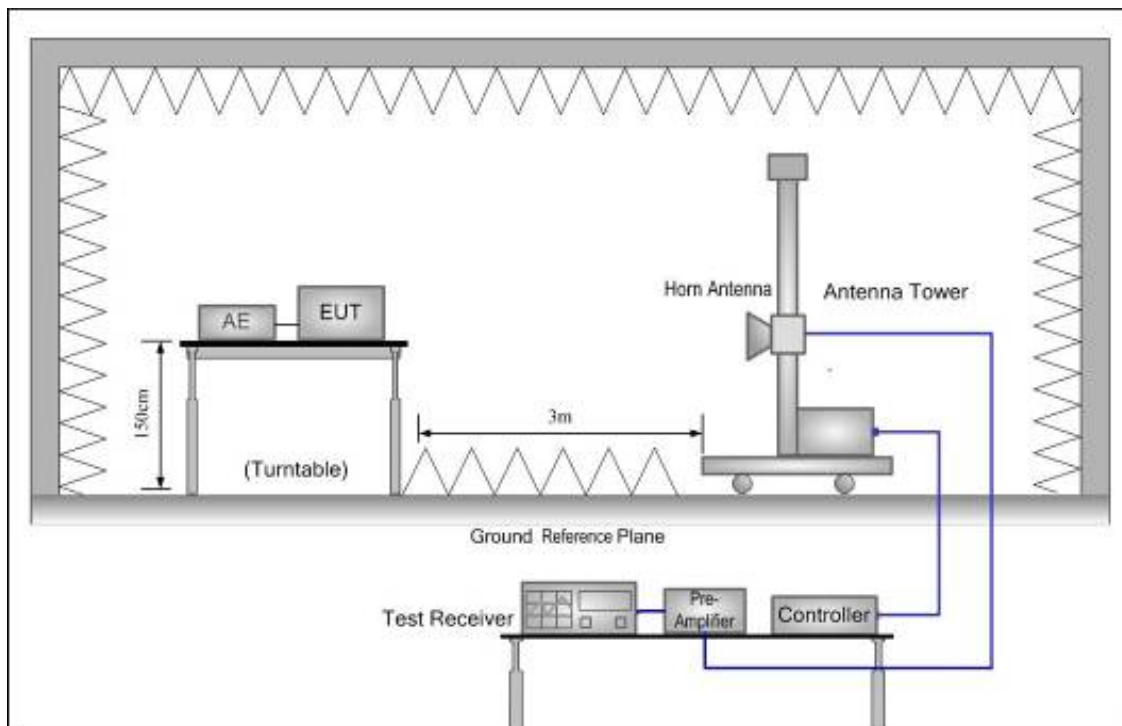


9. Band Edge Compliance

9.1. Block Diagram of Test Setup



9.2. Limit

All the lower and upper band-edges emissions appearing within restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

9.3. Test Procedure

All restriction band and non- restriction band have been tested, only worse case is reported.

9.4. Test Result

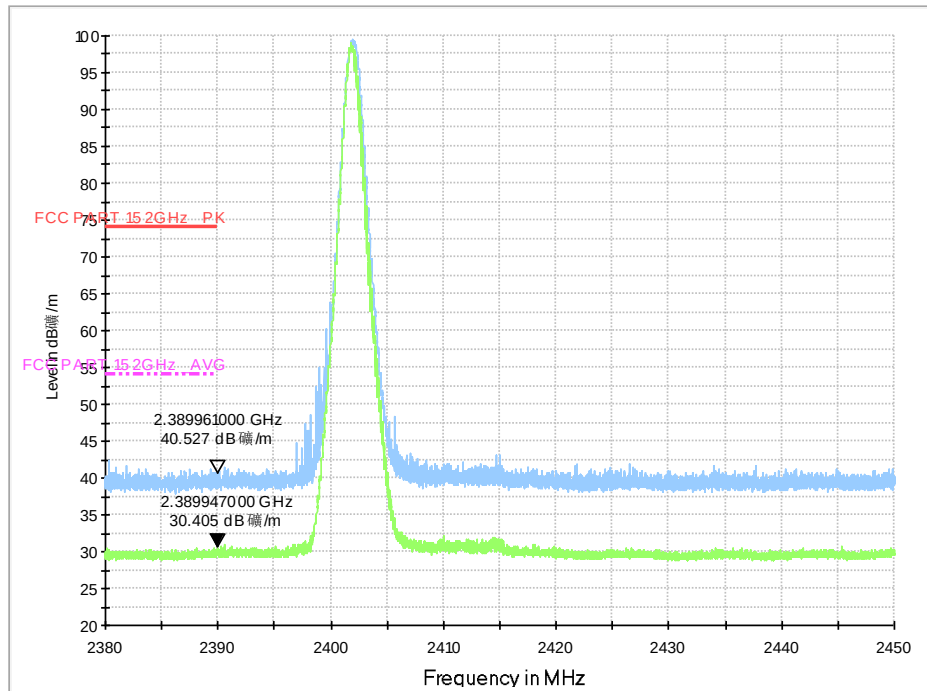
PASS. (See below detailed test data)

Radiated Method:

Hopping-off

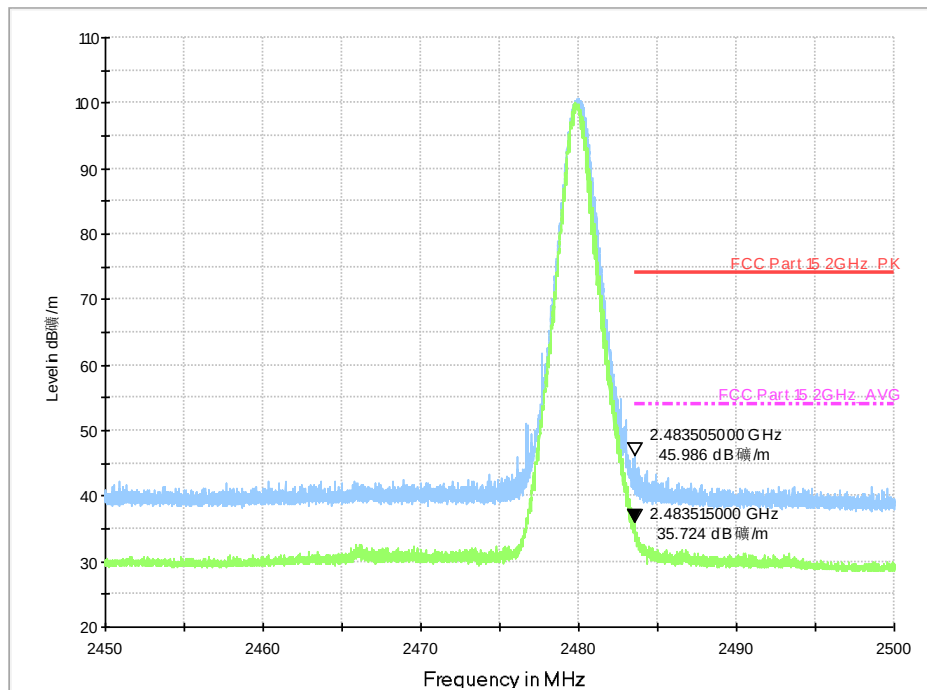
Test Mode:

GFSK-Low



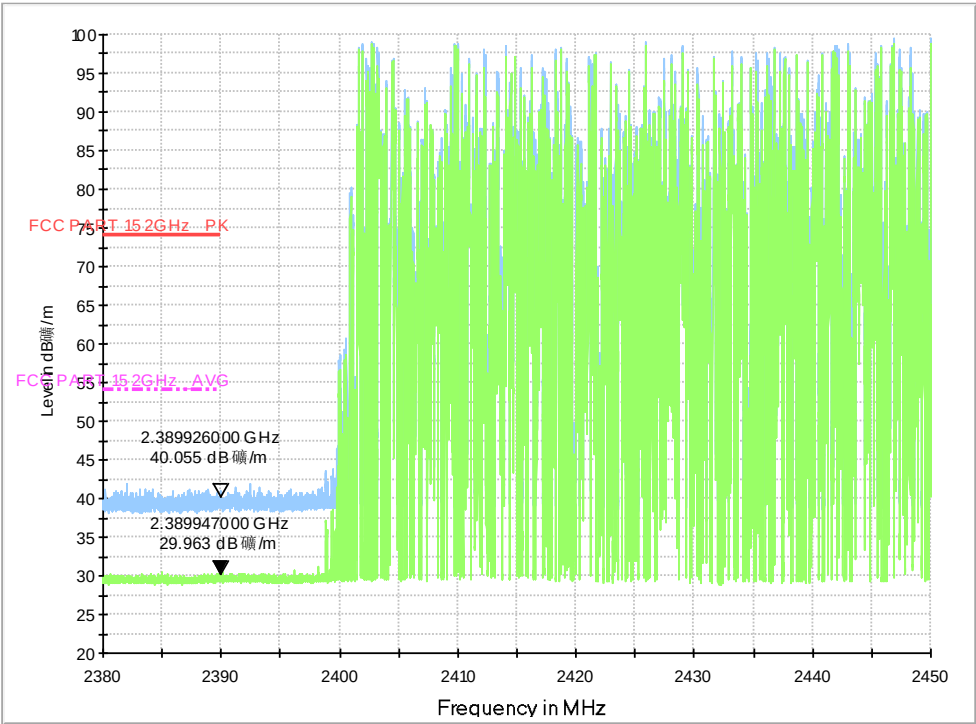
Test Mode:

GFSK-High

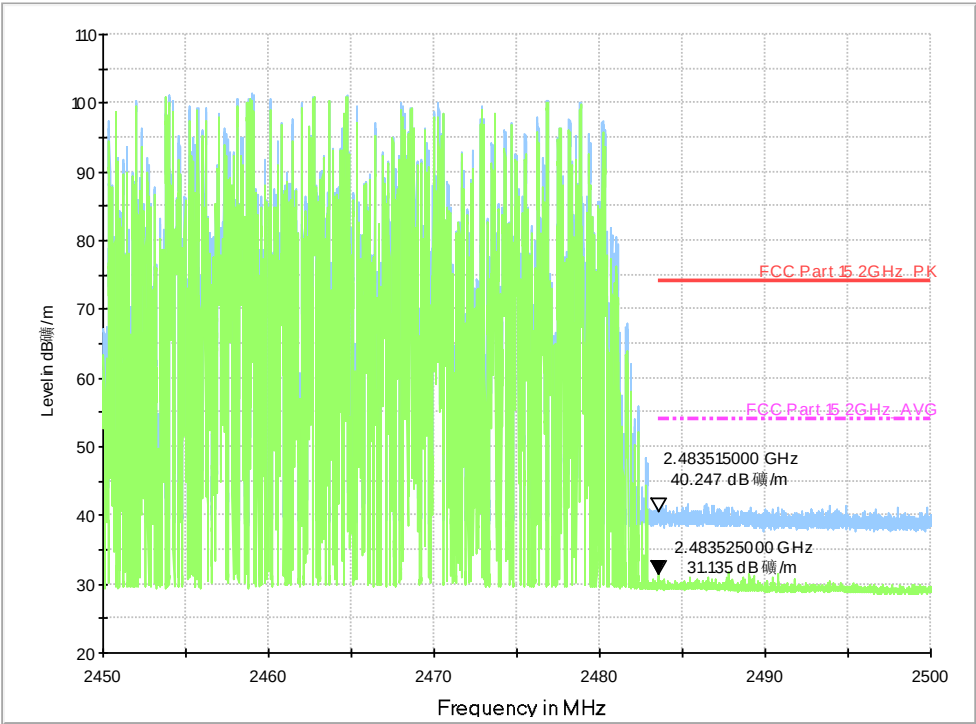


Hopping-on

Test Mode: GFSK-Low

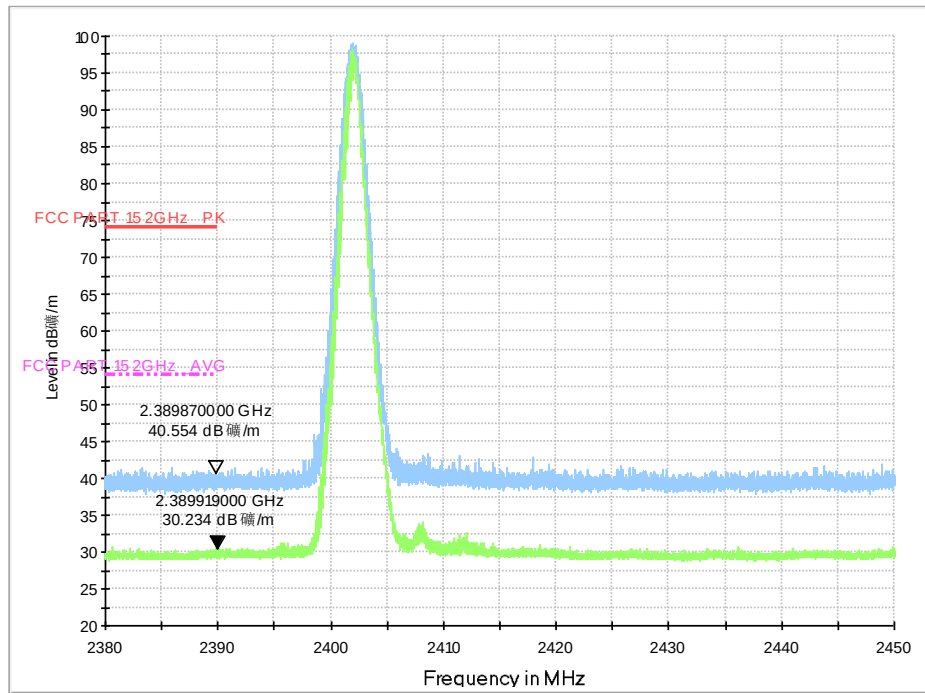


Test Mode: GFSK-High

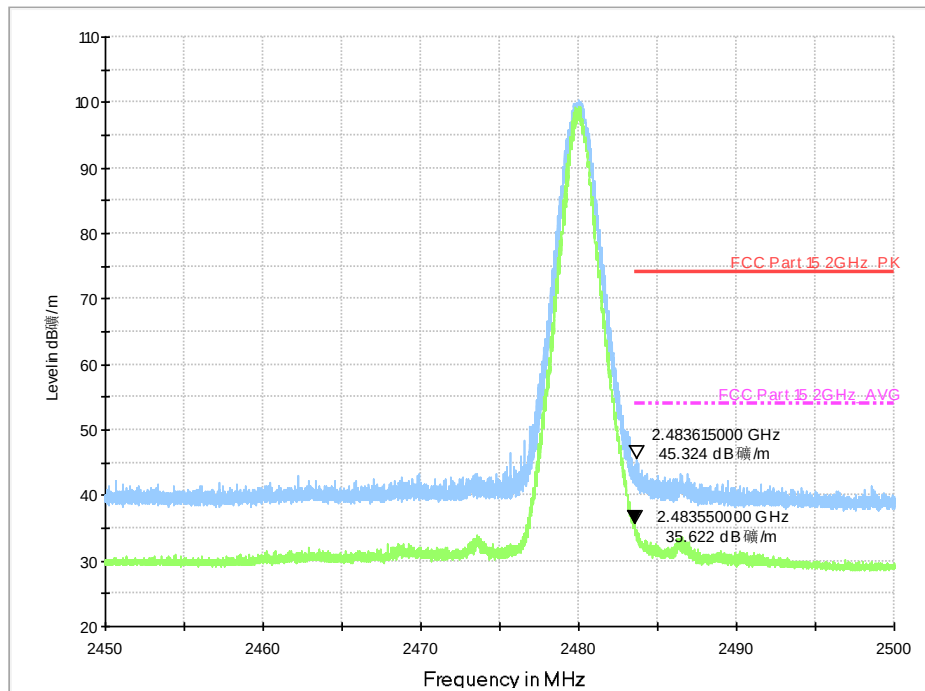


Hopping-off

Test Mode:

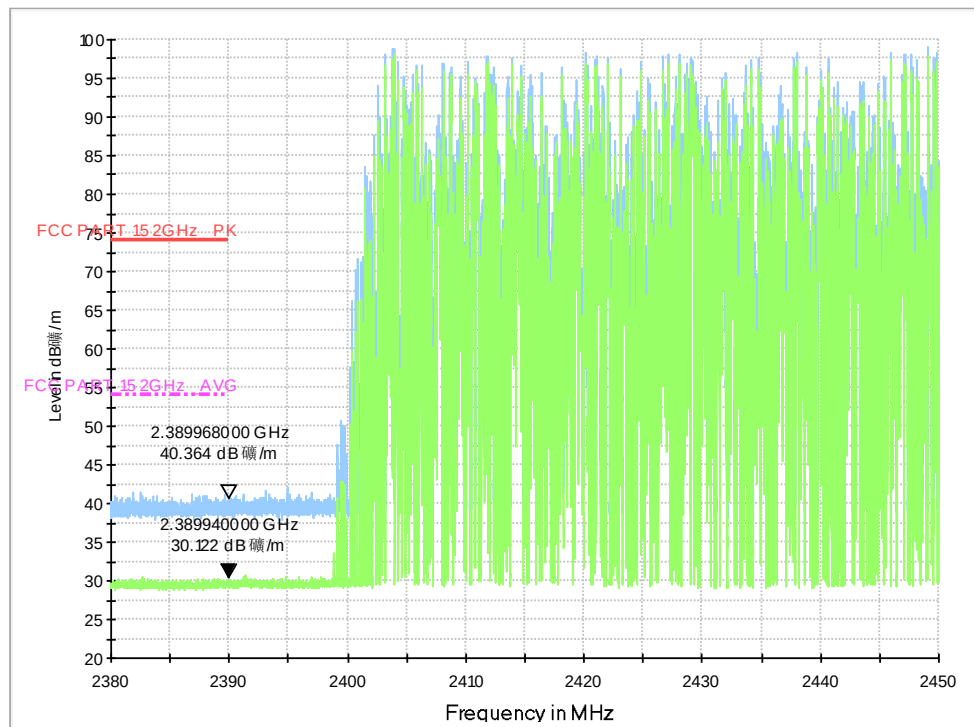
 π /4-DQPSK-Low

Test Mode:

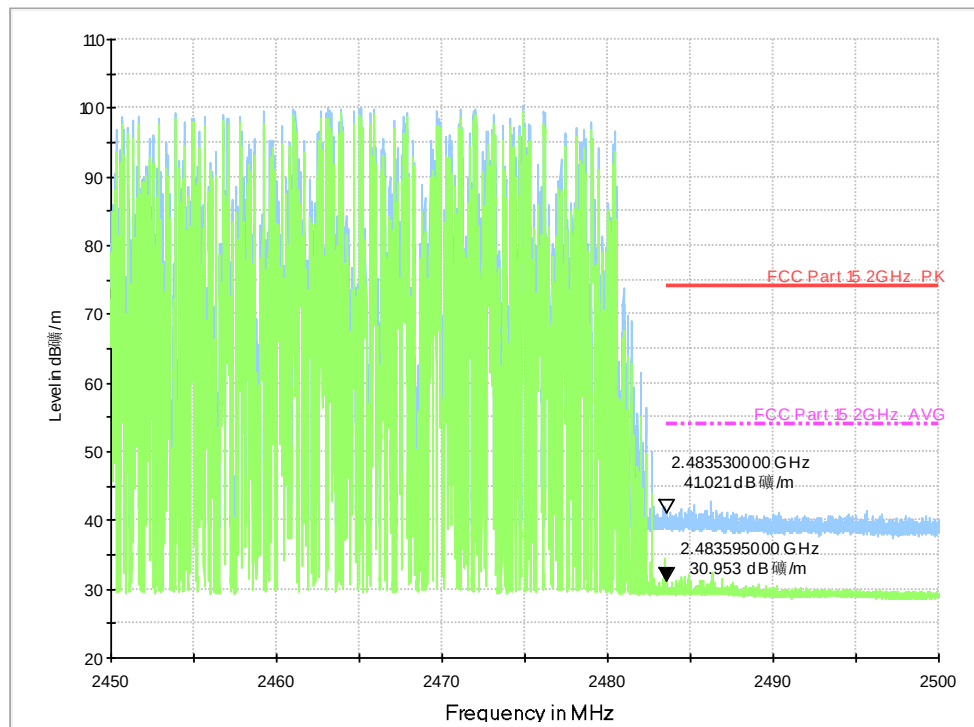
 π /4-DQPSK-High

Hopping-on

Test Mode:

 π /4-DQPSK-Low

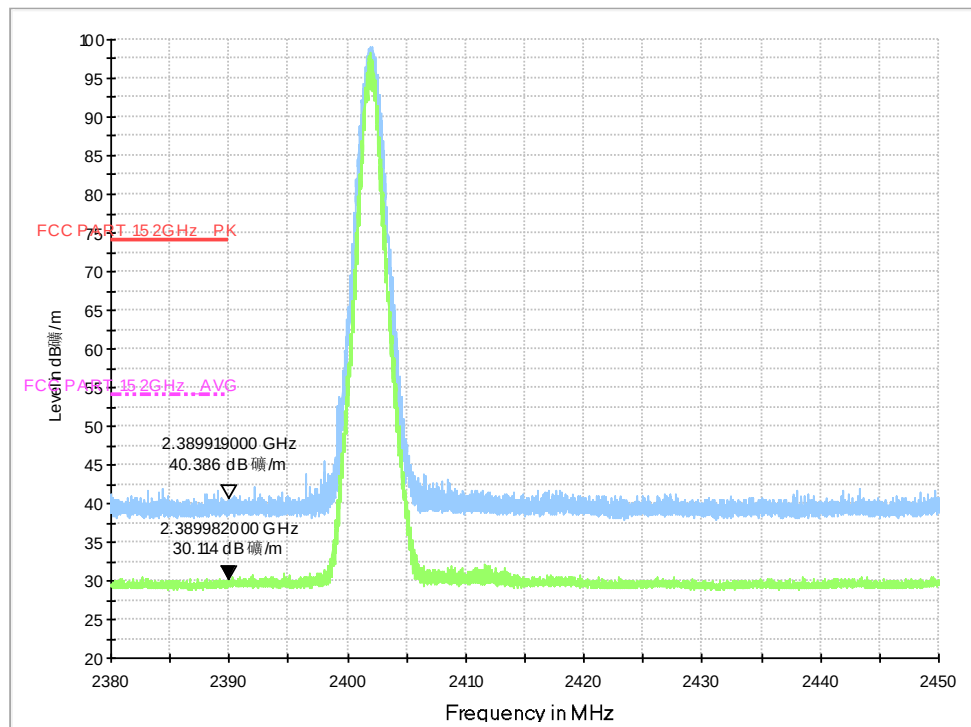
Test Mode:

 π /4-DQPSK-High

Hopping-off

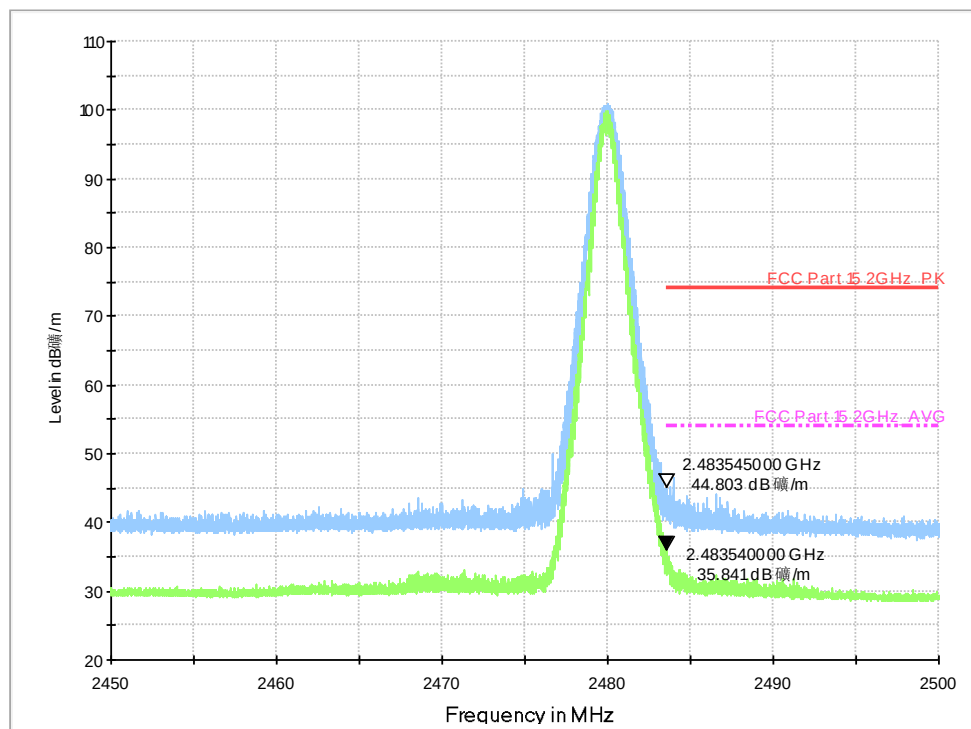
Test Mode:

8-DPSK-Low



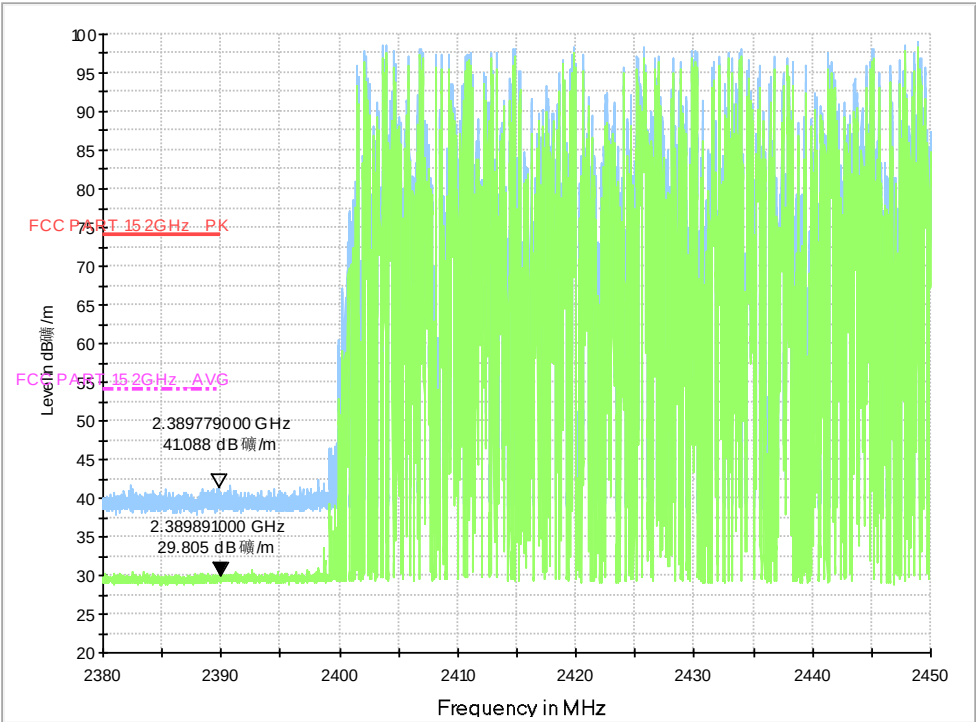
Test Mode:

8-DPSK-High

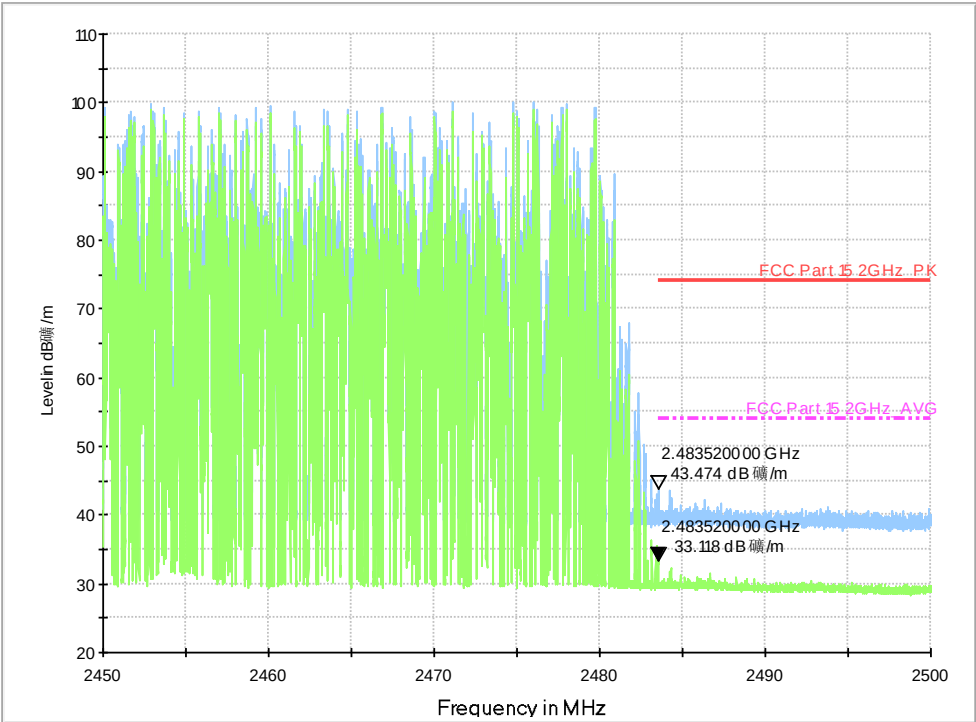


Hopping-on

Test Mode: 8-DPSK -Low

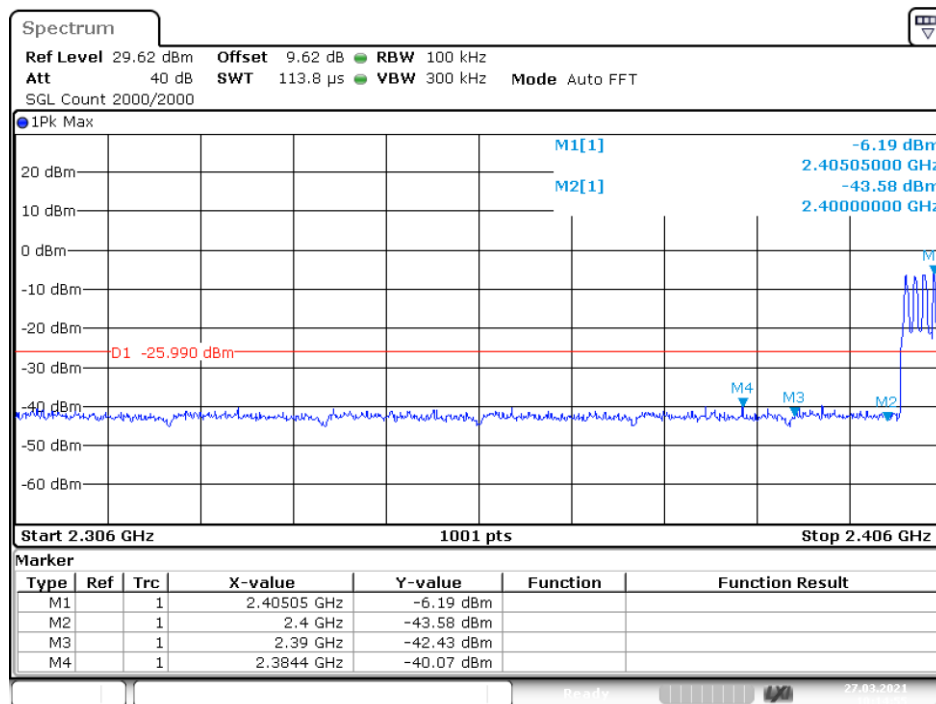


Test Mode: 8-DPSK -High



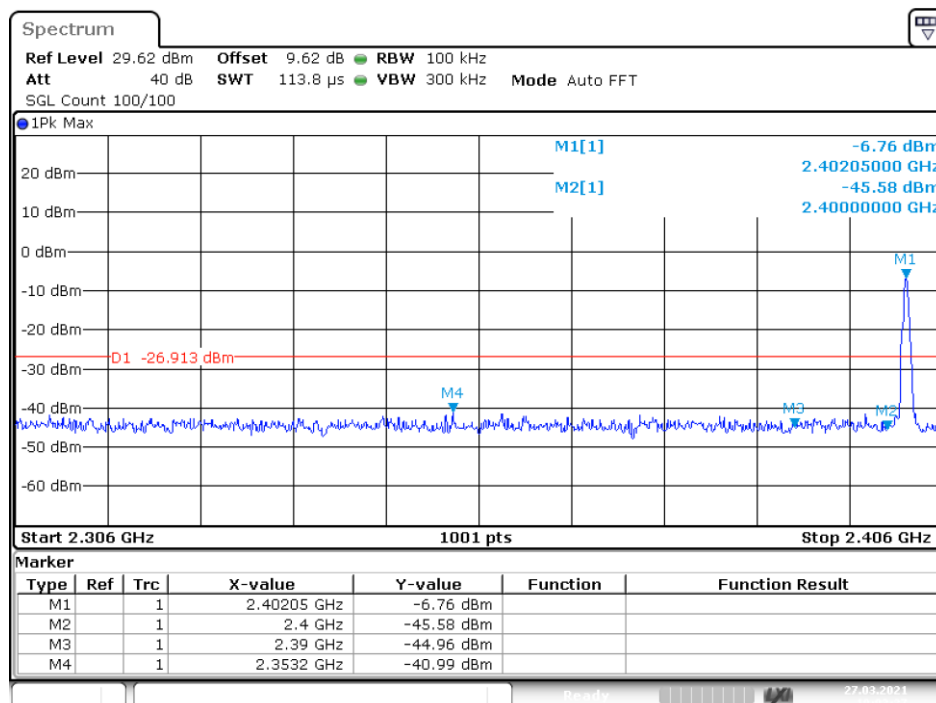
Conducted Method

Band Edge NVNT 1-DH1 2402MHz Ant1 Hopping Emission



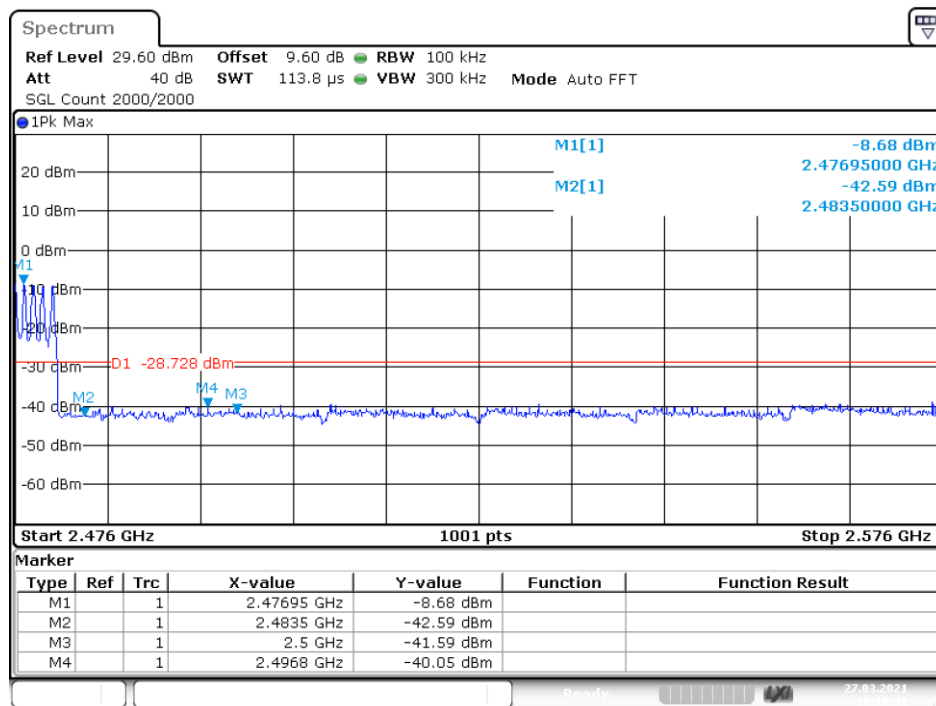
Date: 27.MAR.2021 10:14:54

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



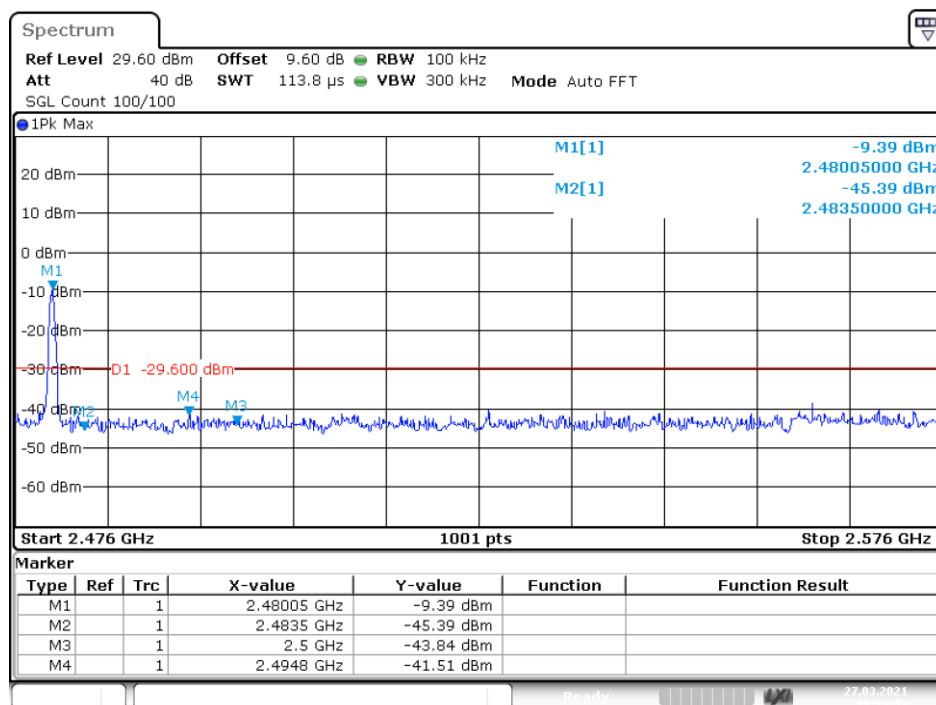
Date: 27.MAR.2021 10:03:37

Band Edge NVNT 1-DH1 2480MHz Ant1 Hopping Emission



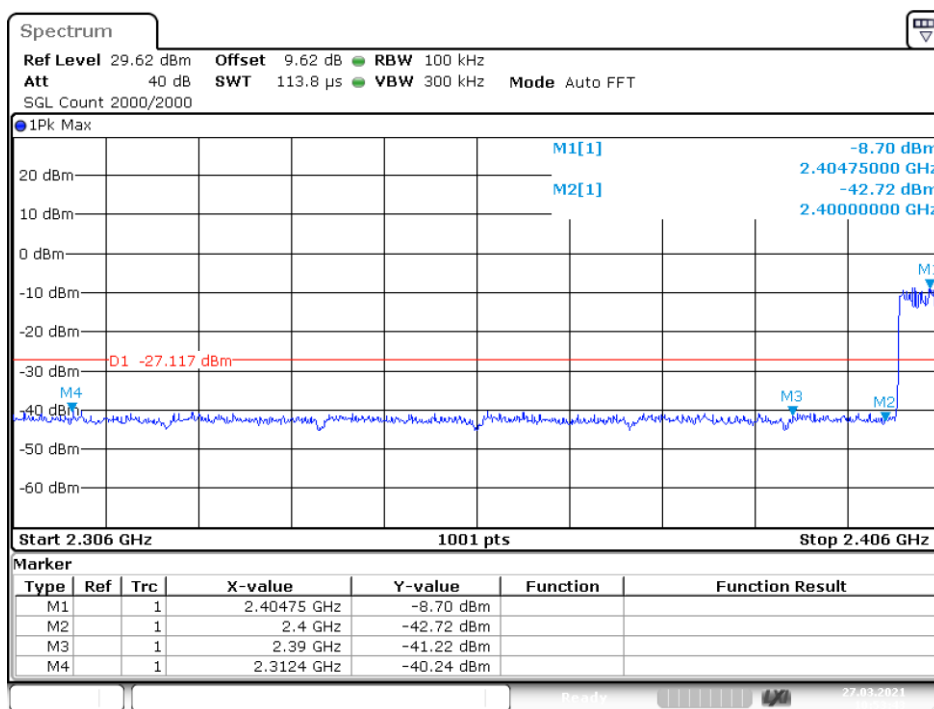
Date: 27.MAR.2021 10:18:41

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

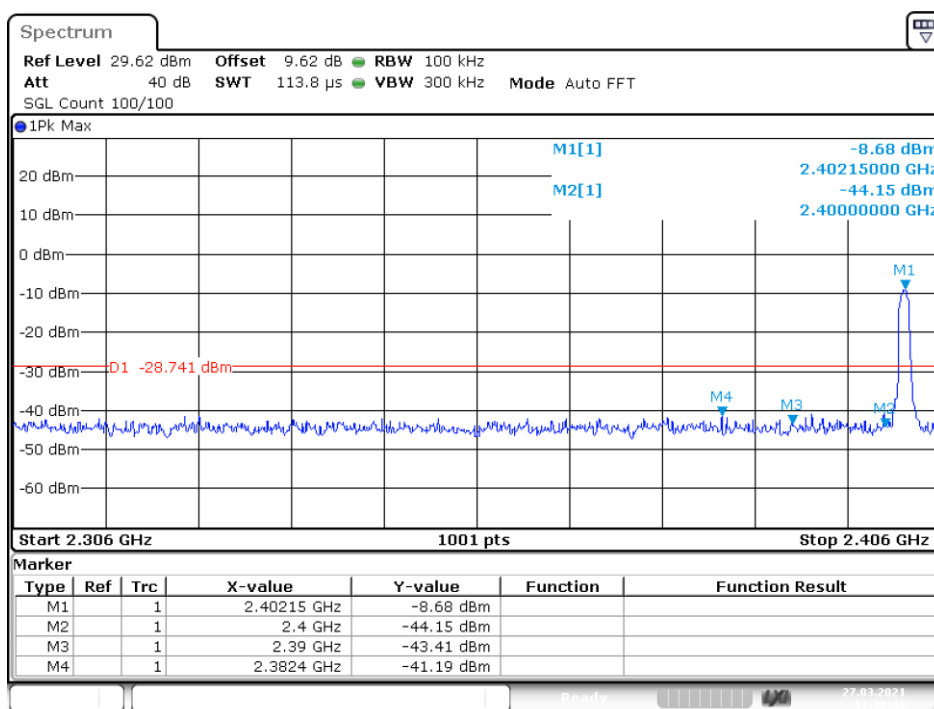


Date: 27.MAR.2021 10:11:53

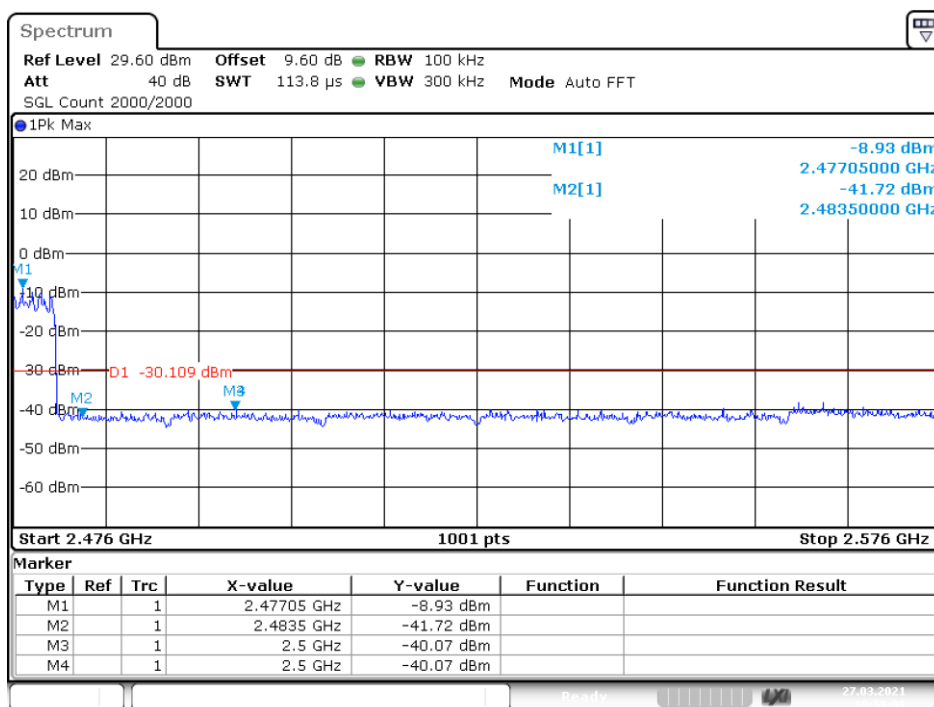
Band Edge NVNT 2-DH1 2402MHz Ant1 Hopping Emission



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

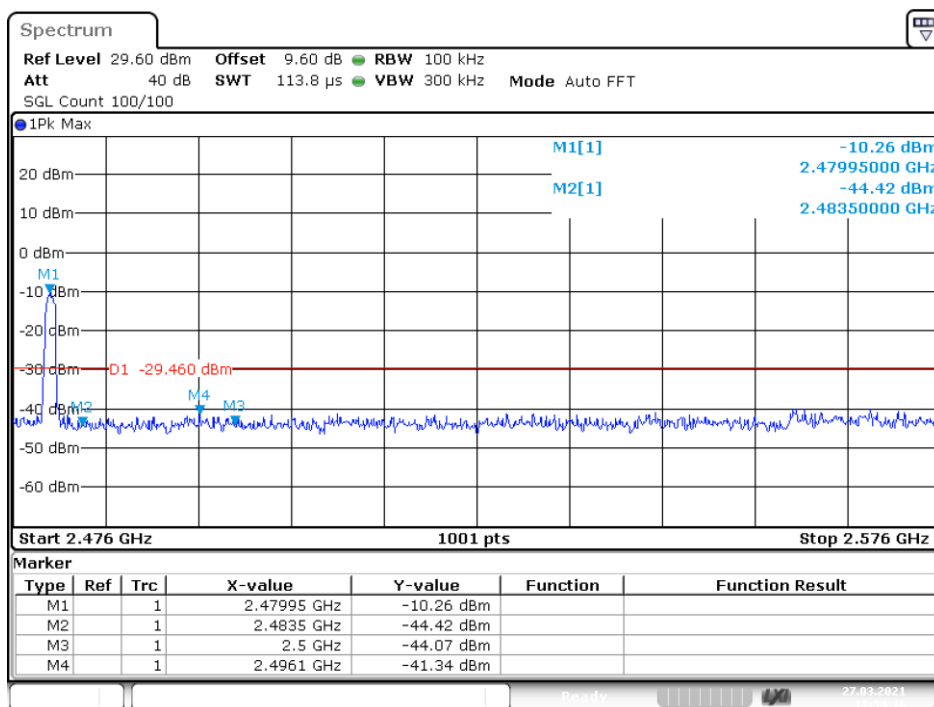


Band Edge NVNT 2-DH1 2480MHz Ant1 Hopping Emission



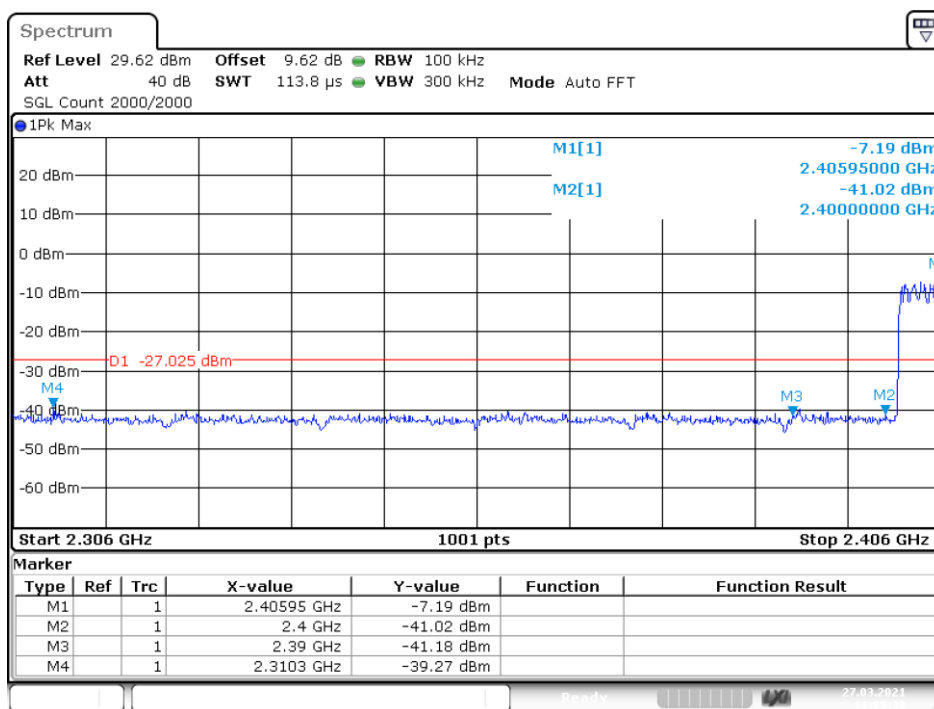
Date: 27.MAR.2021 10:58:09

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

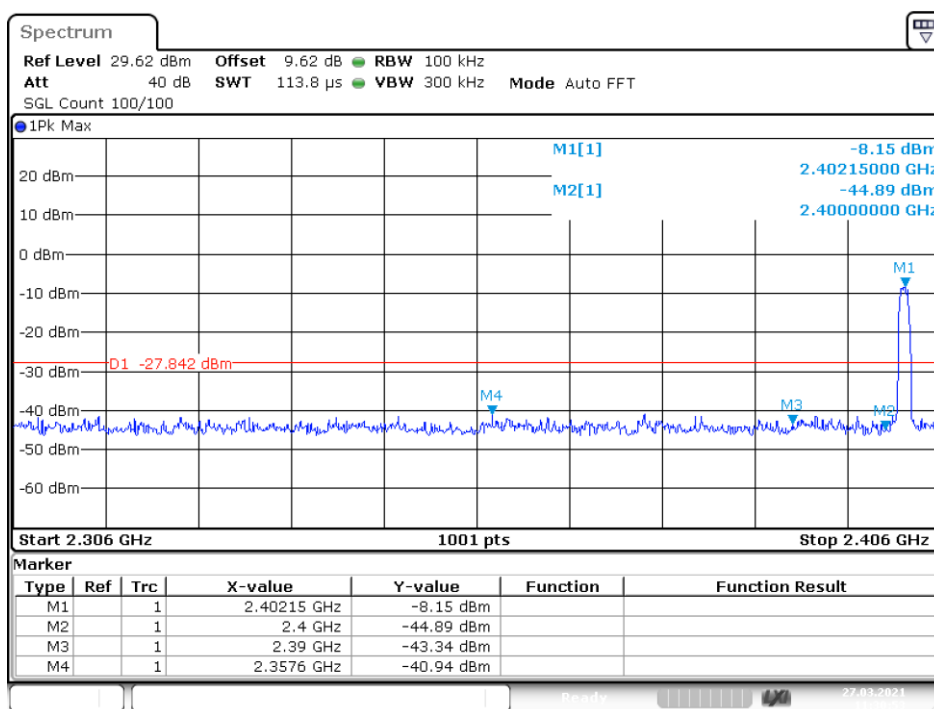


Date: 27.MAR.2021 11:34:46

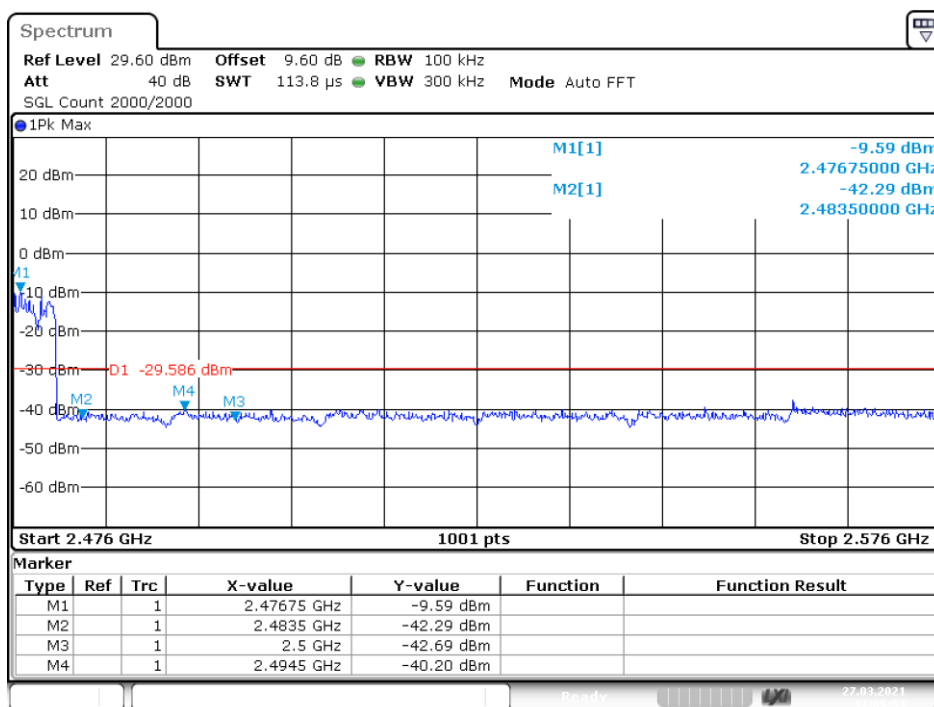
Band Edge NVNT 3-DH1 2402MHz Ant1 Hopping Emission



Band Edge NVNT 3-DH1 2402MHz Ant1 No-Hopping Emission

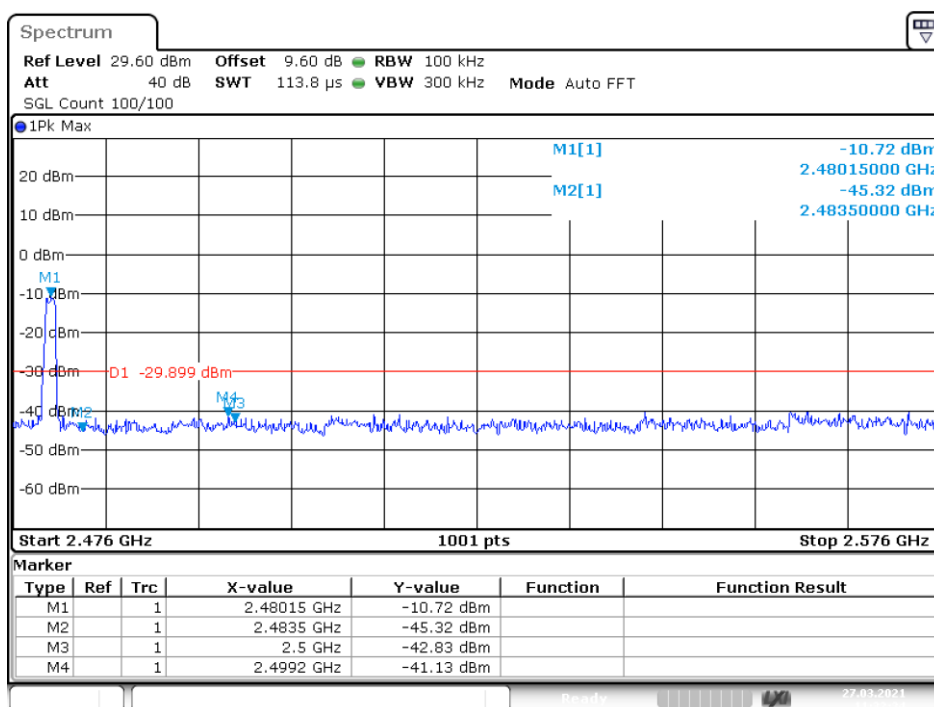


Band Edge NVNT 3-DH1 2480MHz Ant1 Hopping Emission



Date: 27.MAR.2021 11:09:53

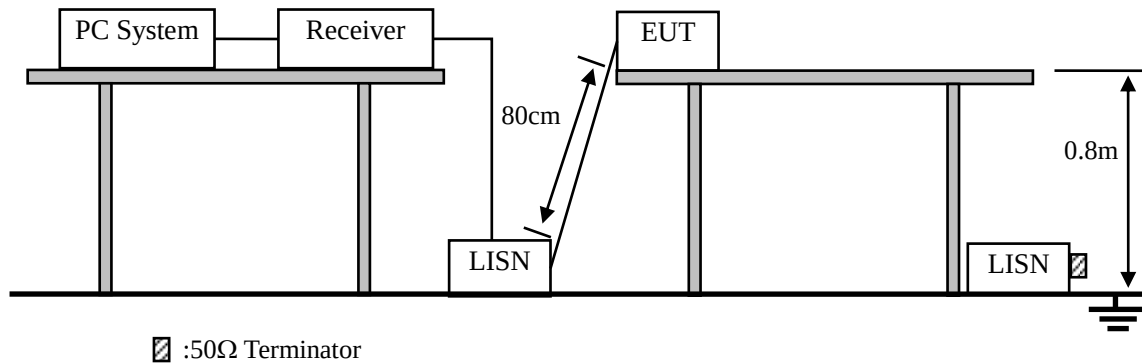
Band Edge NVNT 3-DH1 2480MHz Ant1 No-Hopping Emission



Date: 27.MAR.2021 11:32:34

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.

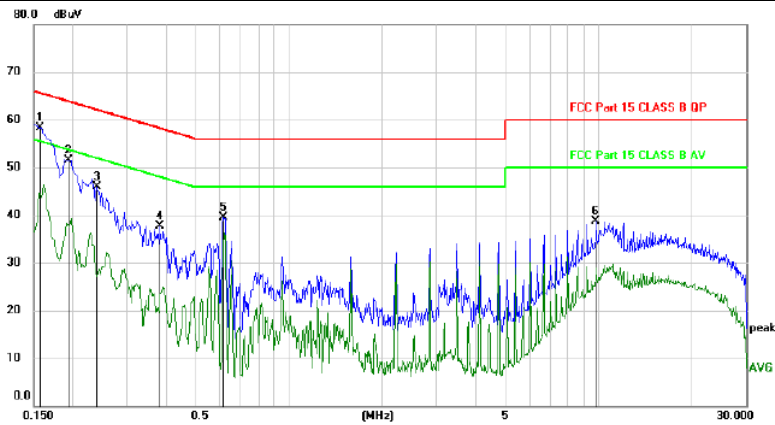
10.3. Test Procedure

- (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.

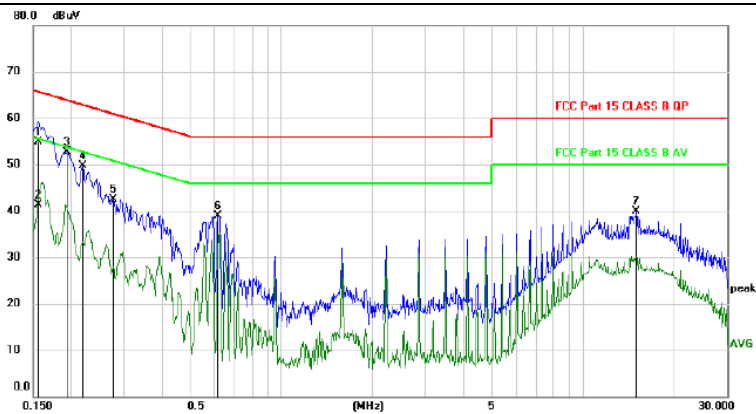
10.4. Test Result

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

Pol**Line**

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1573	48.32	9.94	58.26	65.61	-7.35	peak	
2		0.1949	41.65	9.92	51.57	63.83	-12.26	peak	
3		0.2400	35.85	9.96	45.81	62.10	-16.29	peak	
4		0.3840	27.73	9.94	37.67	58.19	-20.52	peak	
5		0.6150	29.63	9.92	39.55	56.00	-16.45	peak	
6		9.8520	28.52	10.21	38.73	60.00	-21.27	peak	

Pol**Neutral**

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.1560	45.06	9.94	55.00	65.67	-10.67	QP	
2		0.1560	31.37	9.94	41.31	55.67	-14.36	AVG	
3		0.1949	42.69	9.92	52.61	63.83	-11.22	peak	
4		0.2190	39.70	9.94	49.64	62.86	-13.22	peak	
5		0.2760	32.66	9.94	42.60	60.94	-18.34	peak	
6		0.6150	28.96	9.92	38.88	56.00	-17.12	peak	
7		15.0180	29.52	10.33	39.85	60.00	-20.15	peak	

*:Maximum data x:Over limit !:over margin

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

Remark: All modes have been tested, and only worst data of GFSK was listed in this report.

11. Antenna Requirements

11.1. Limit

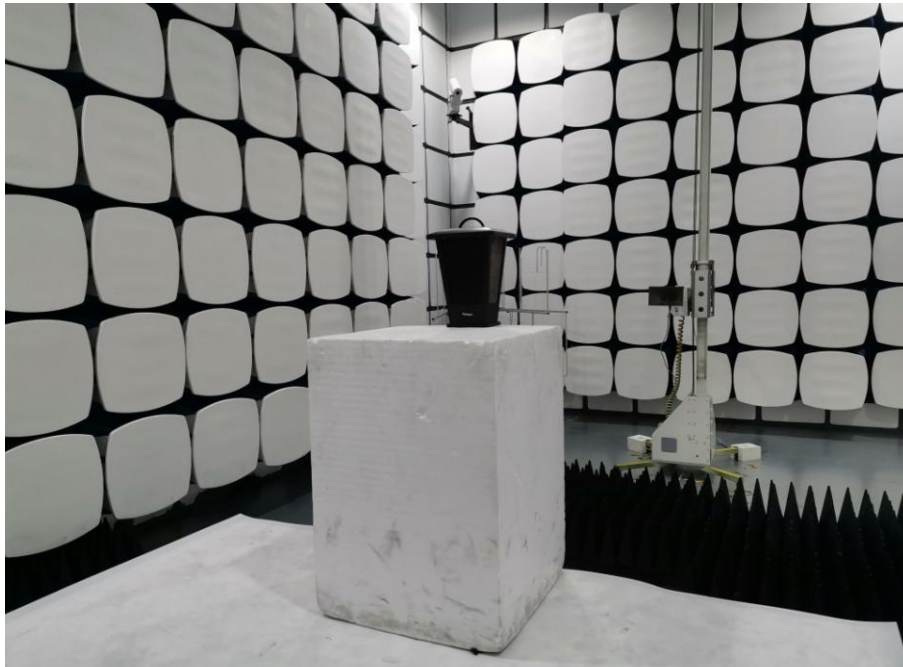
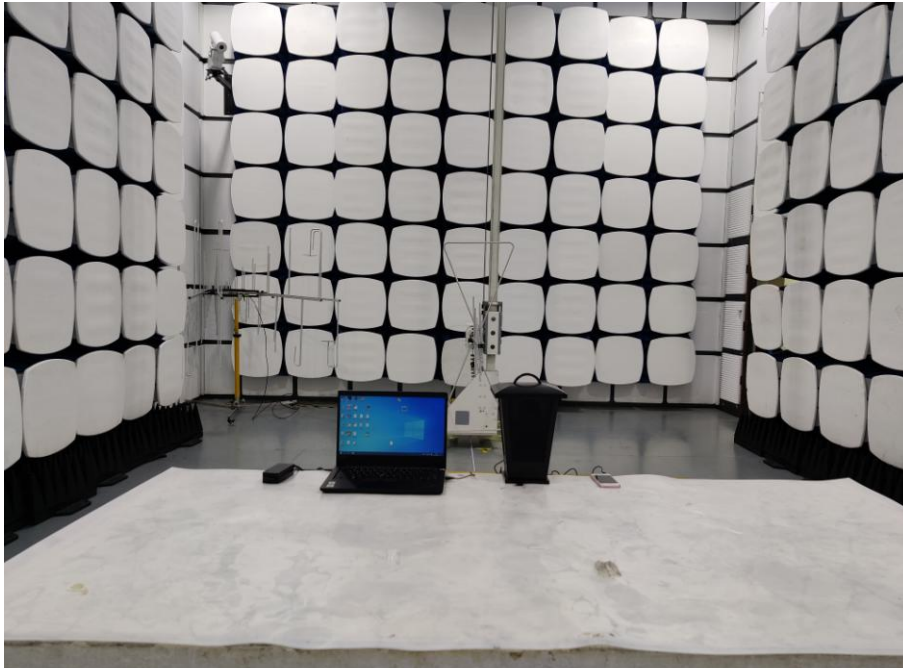
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional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

12. Test Setup Photo

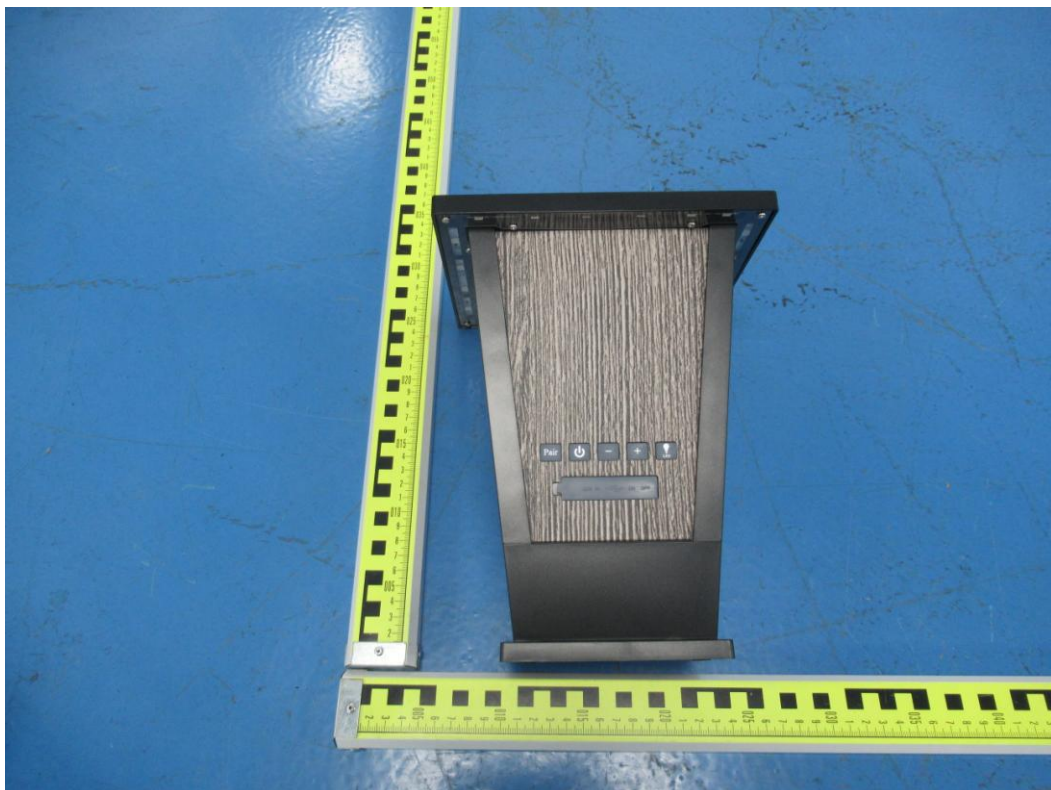
12.1. Photos of Radiated emission

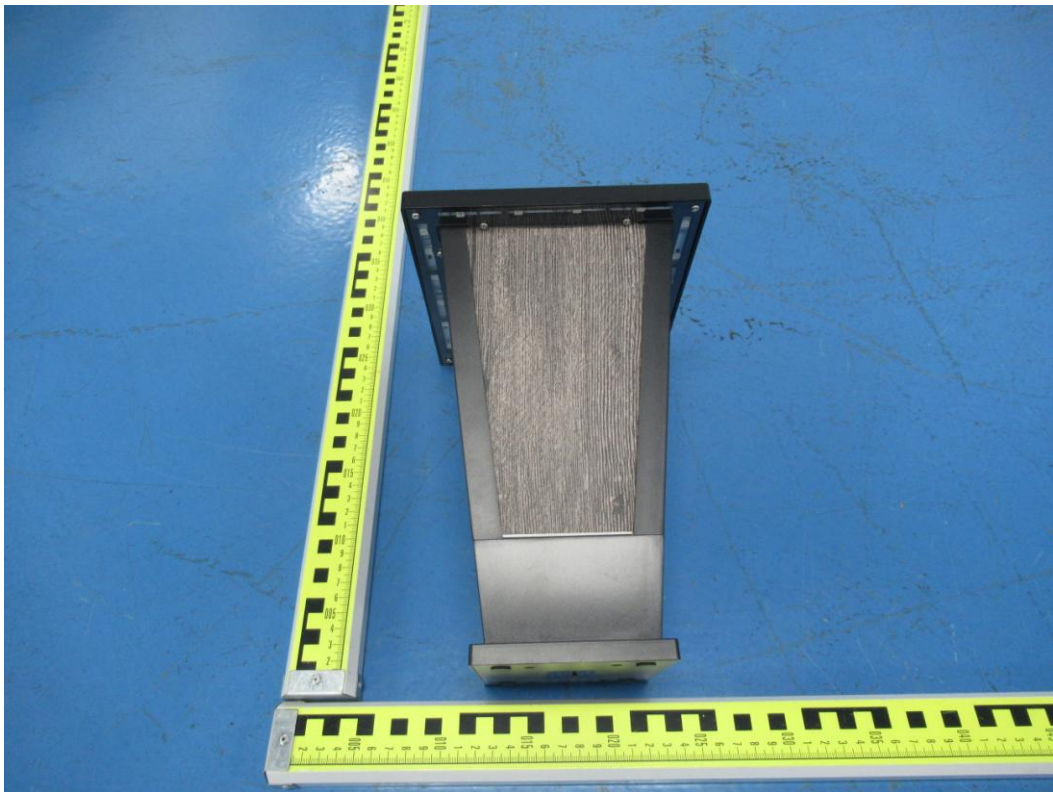


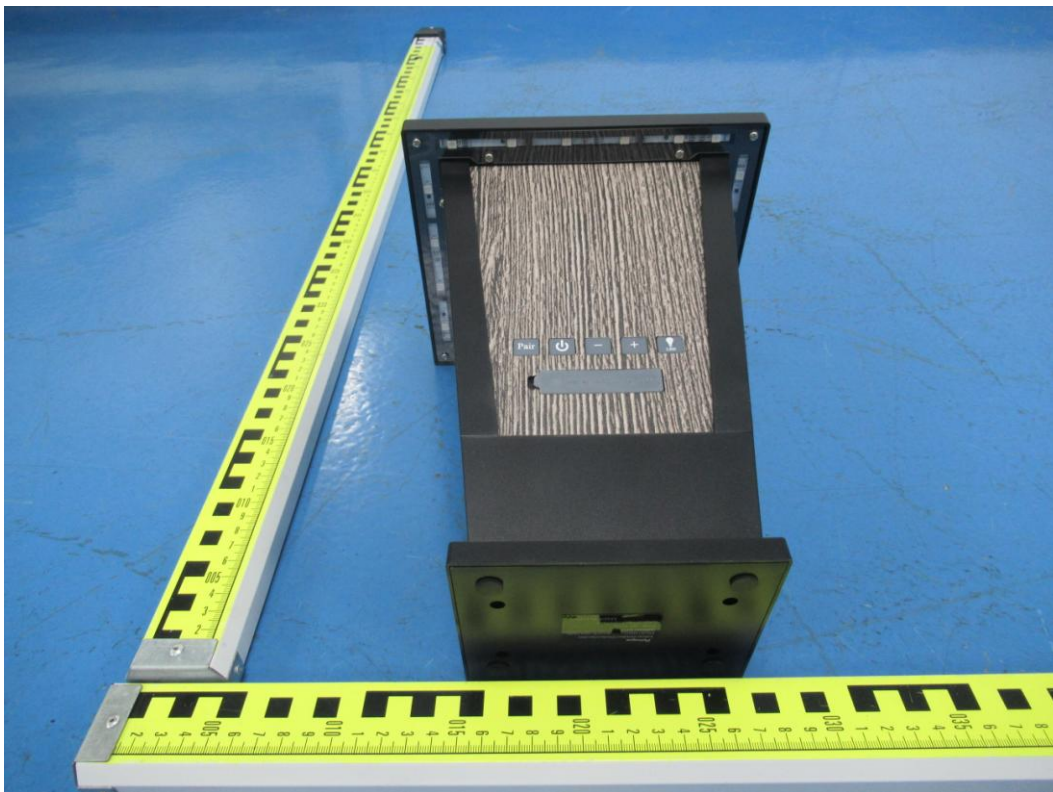
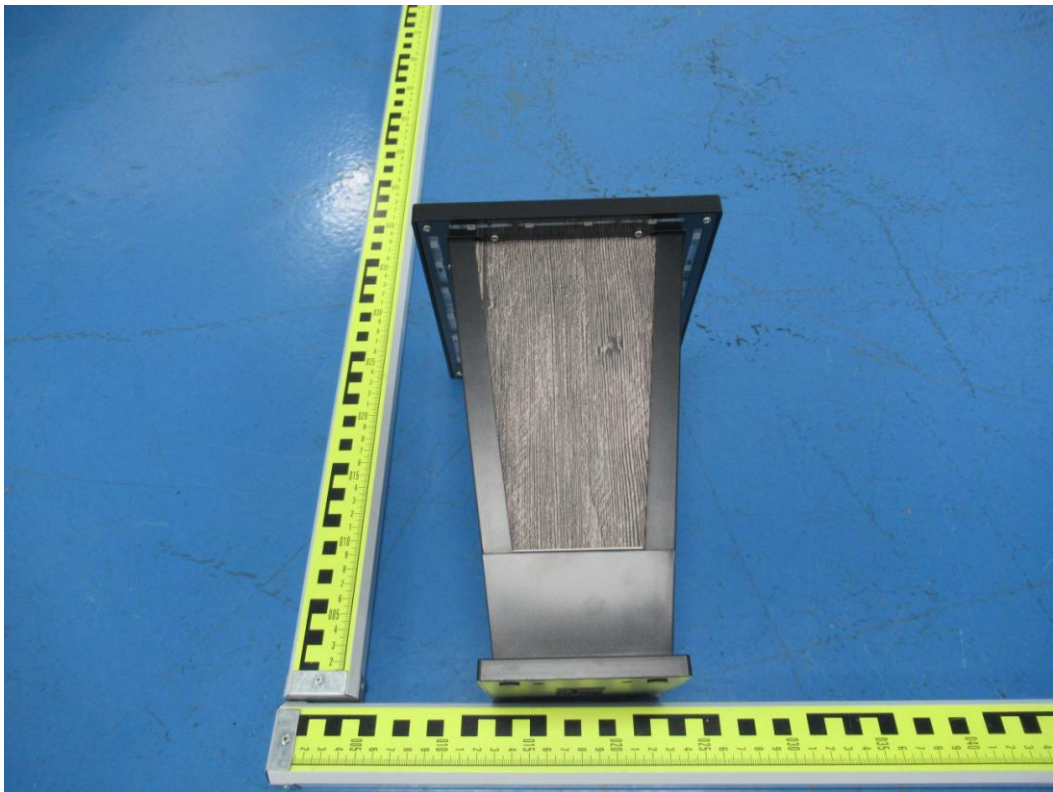
12.2.Photos of Conducted Emission test

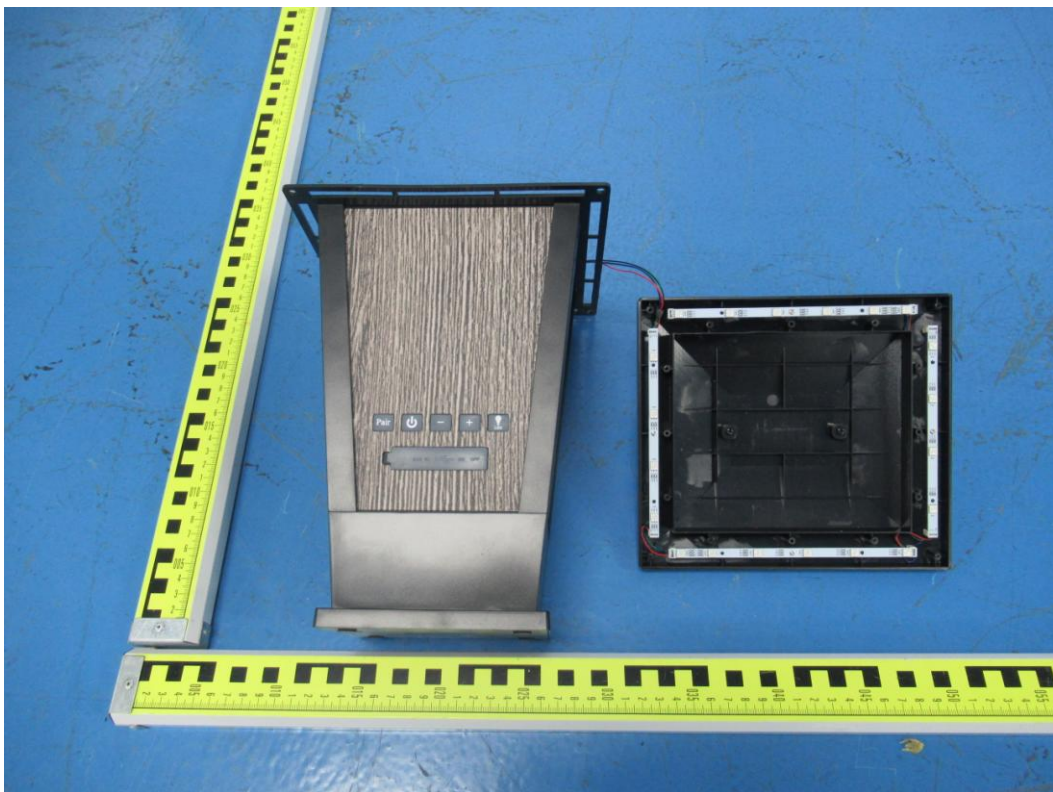
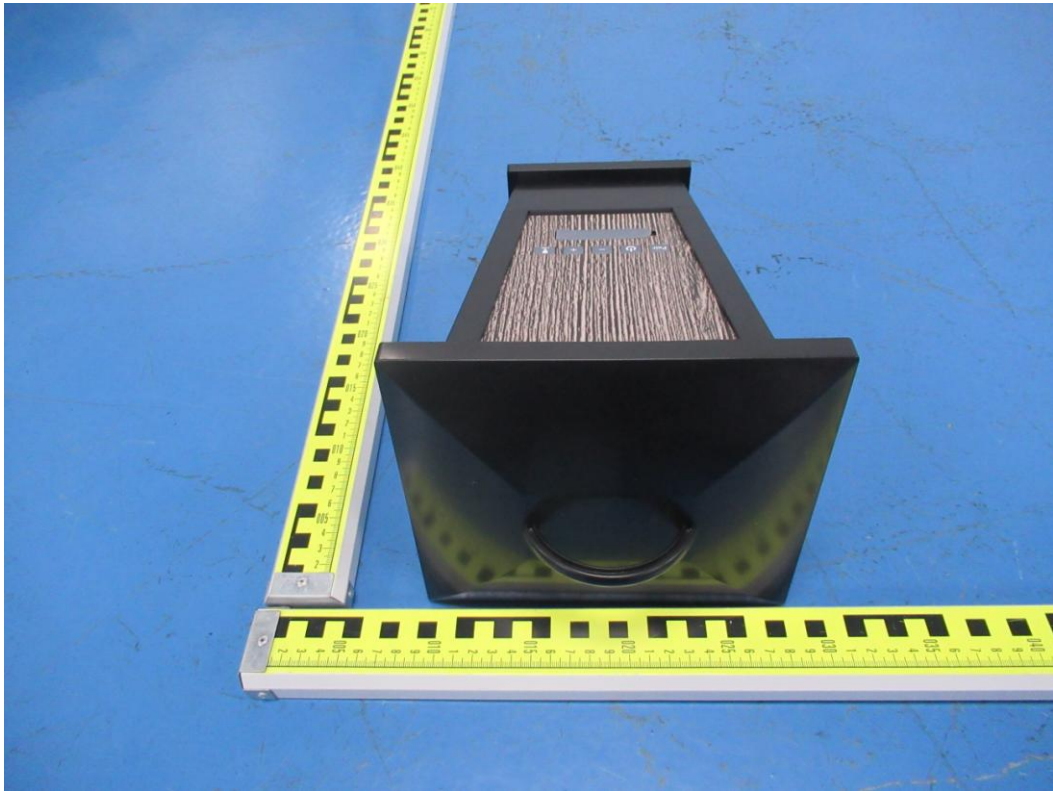


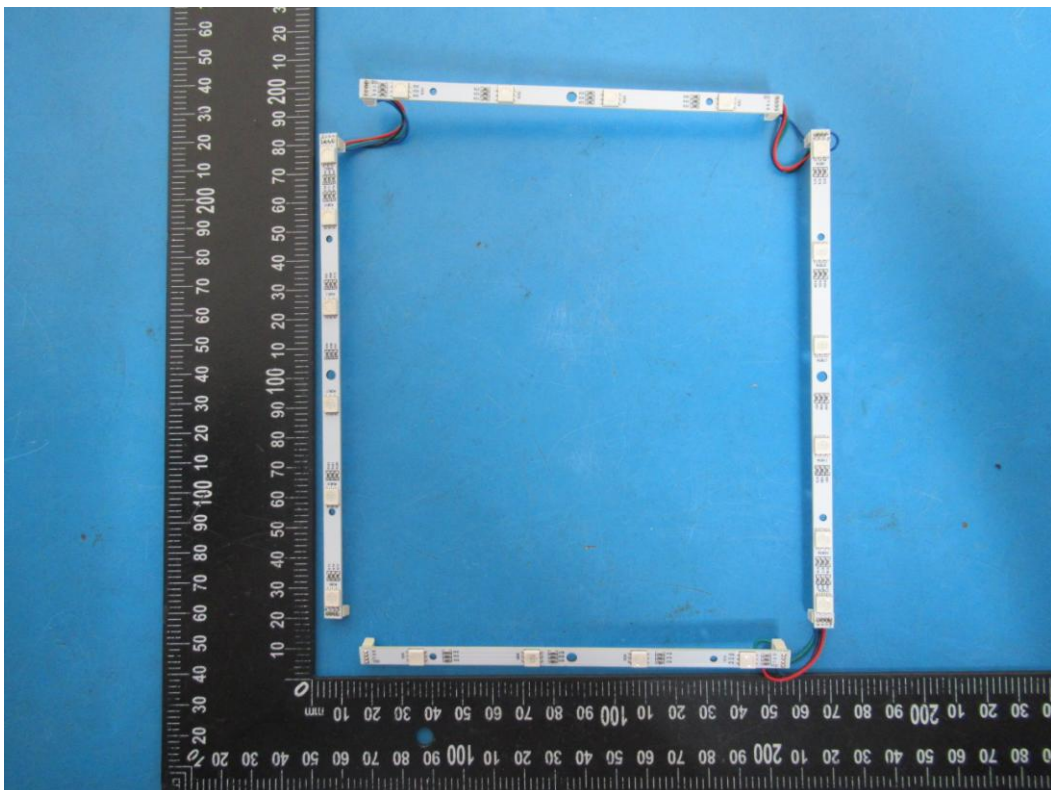
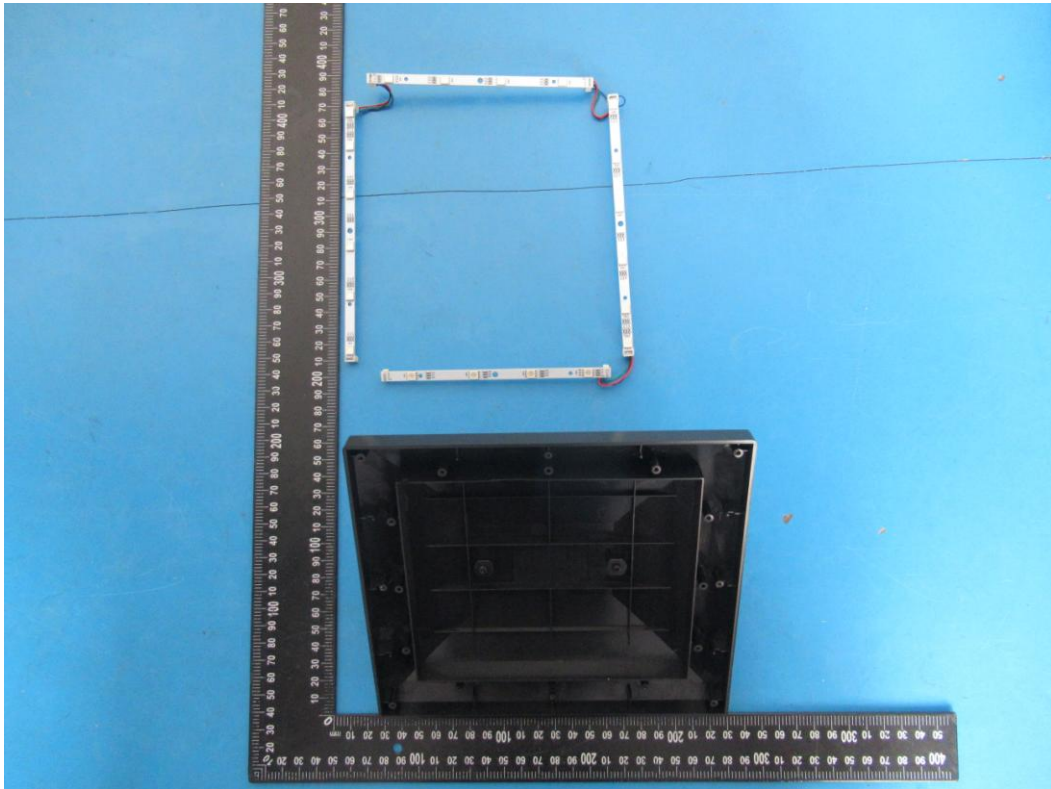
13.Photos Of EUT

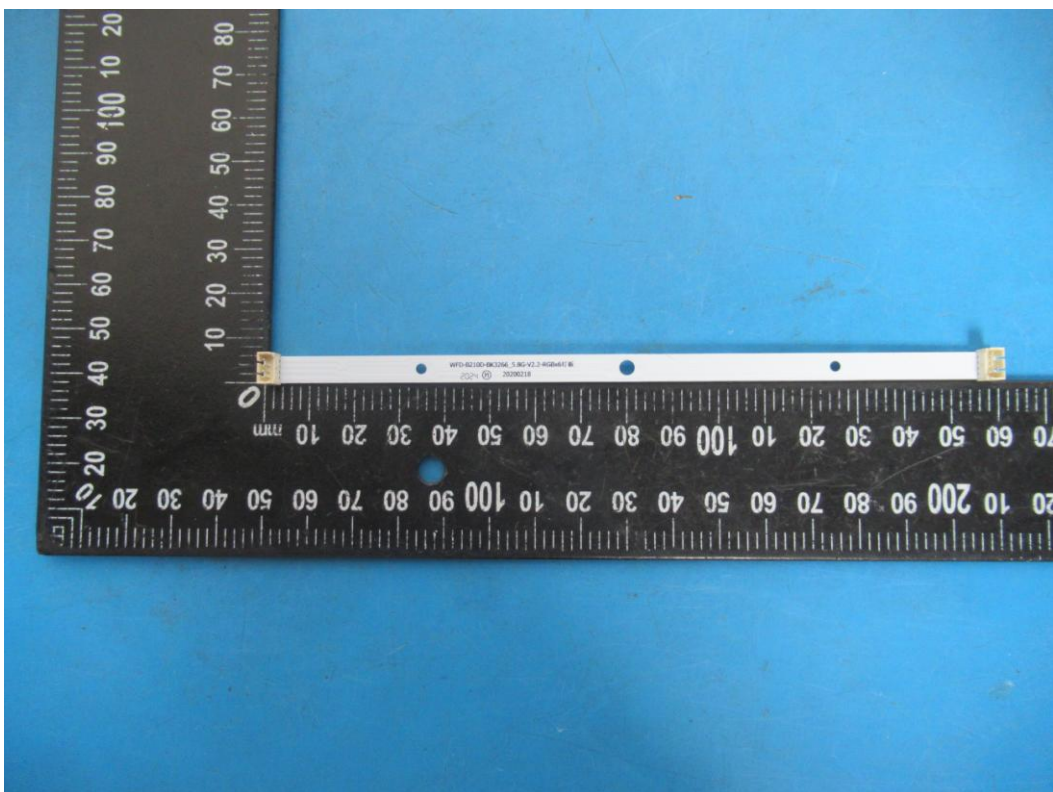


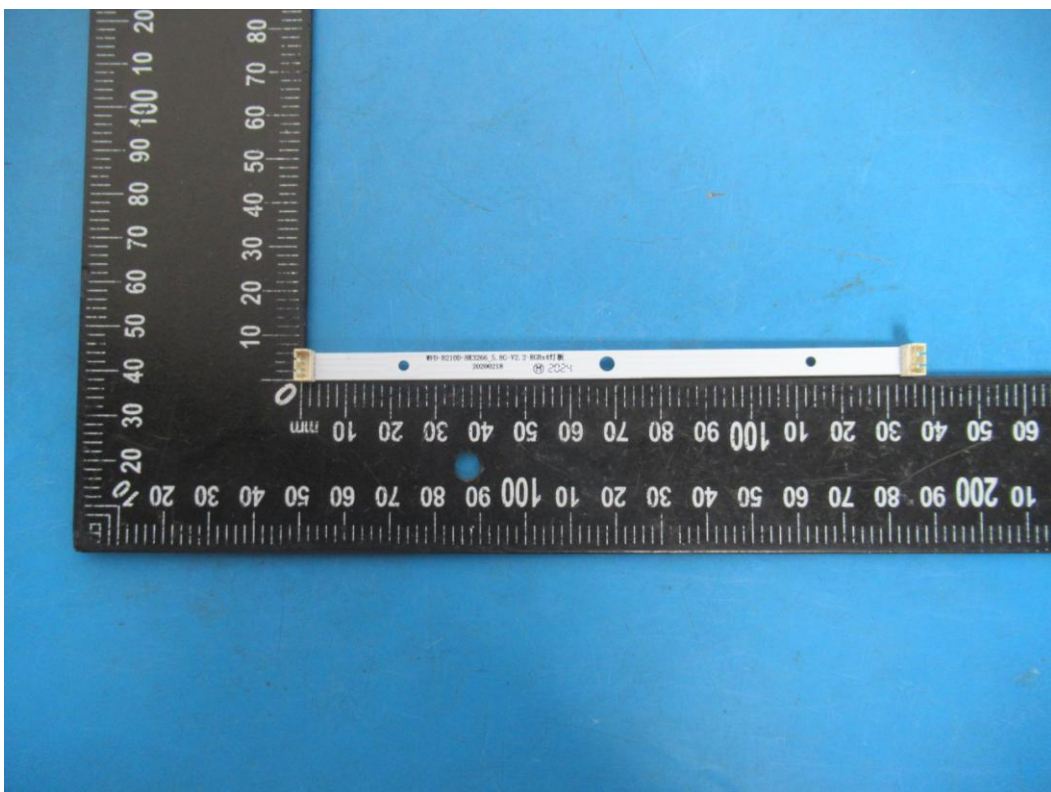


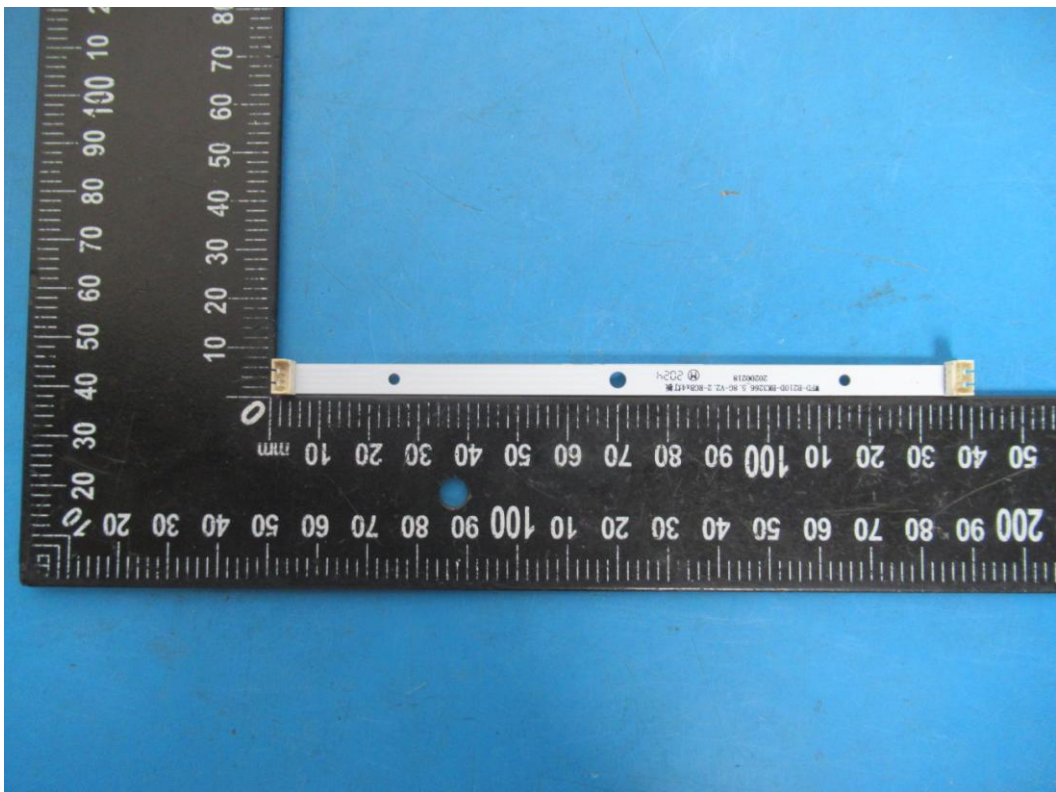
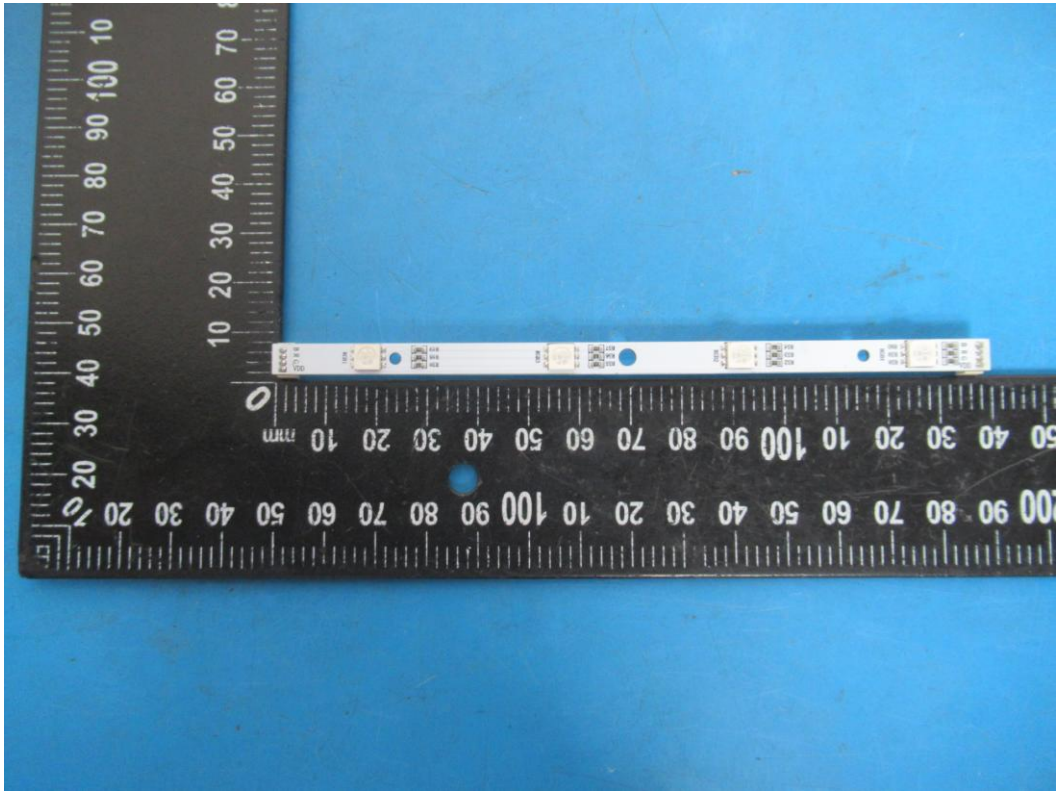


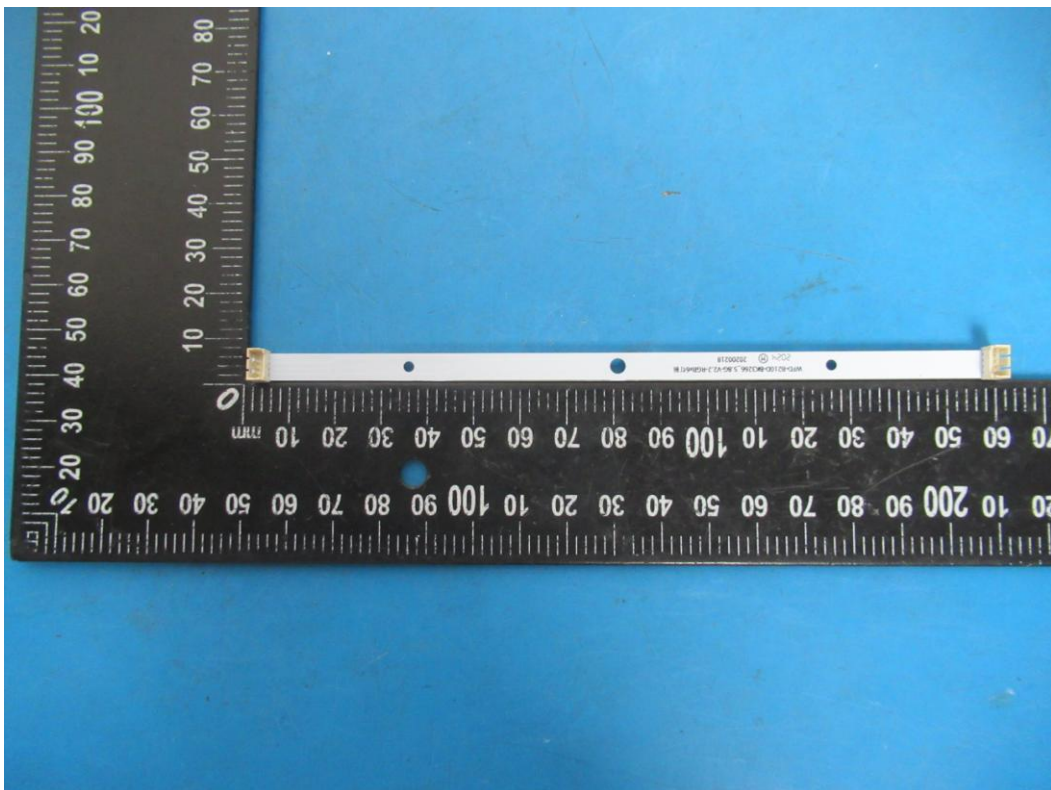


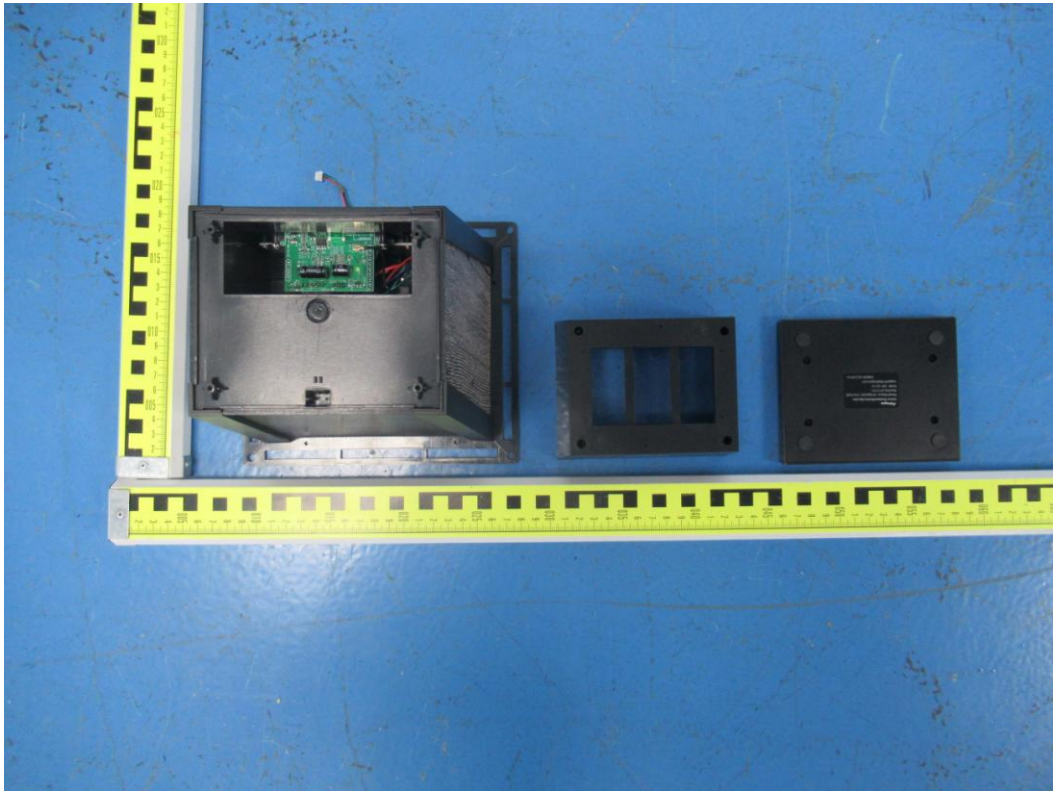


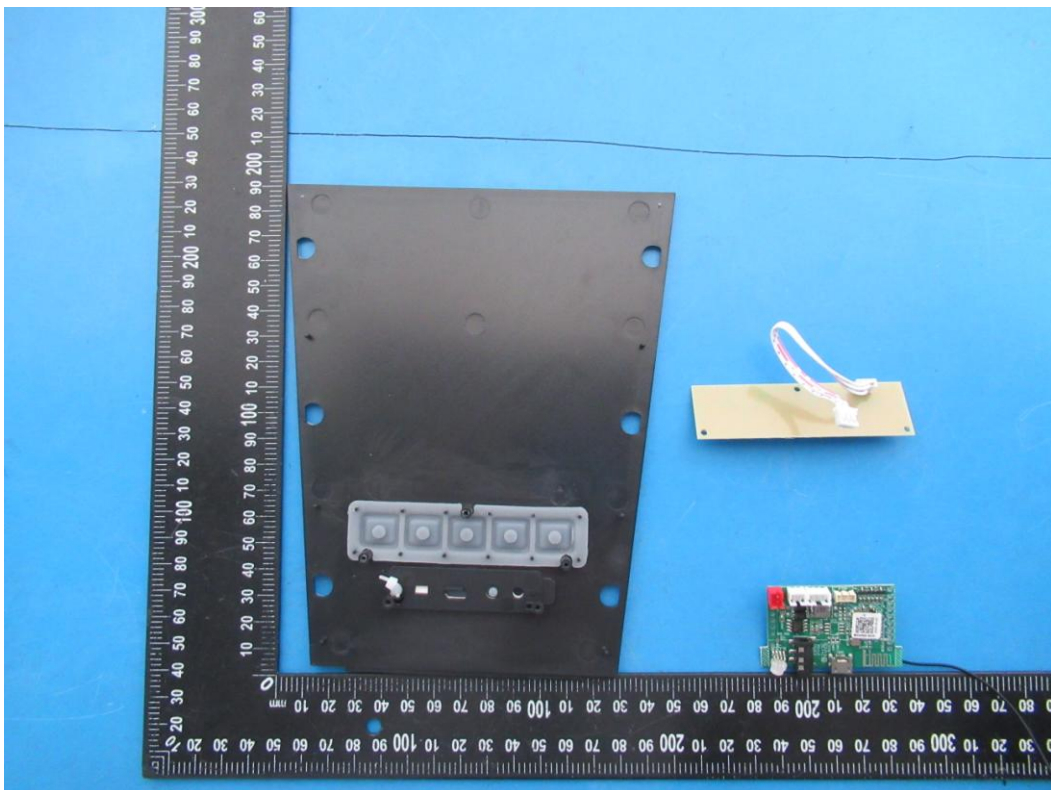
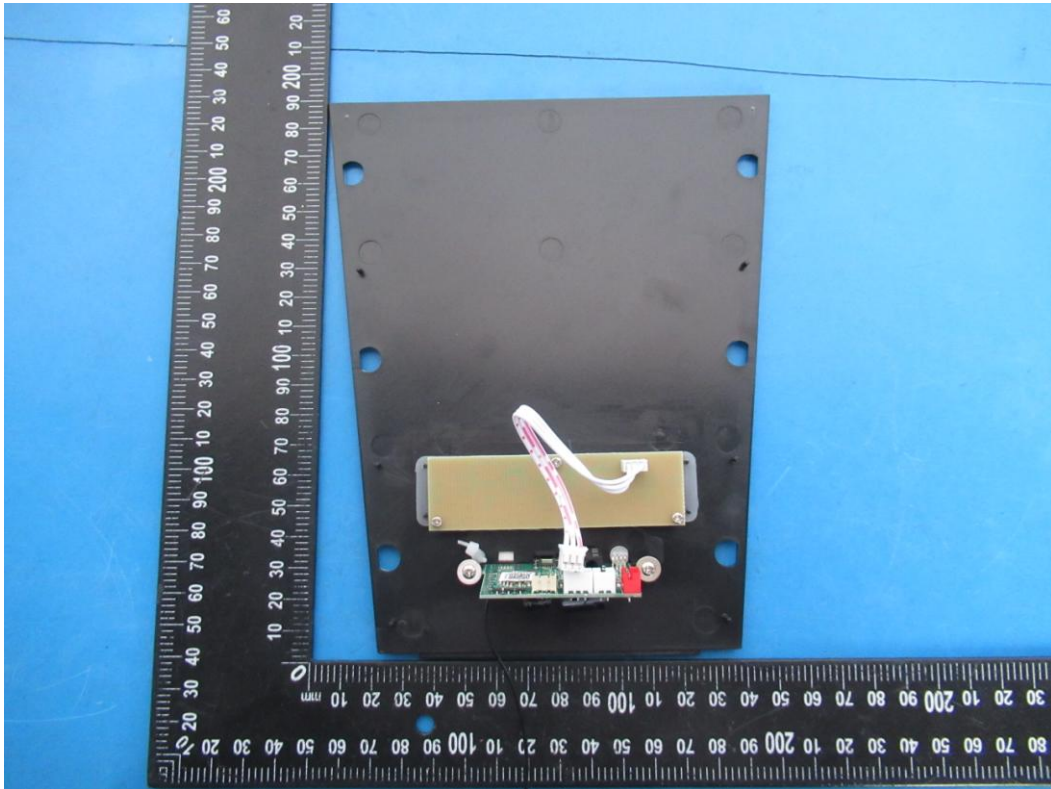


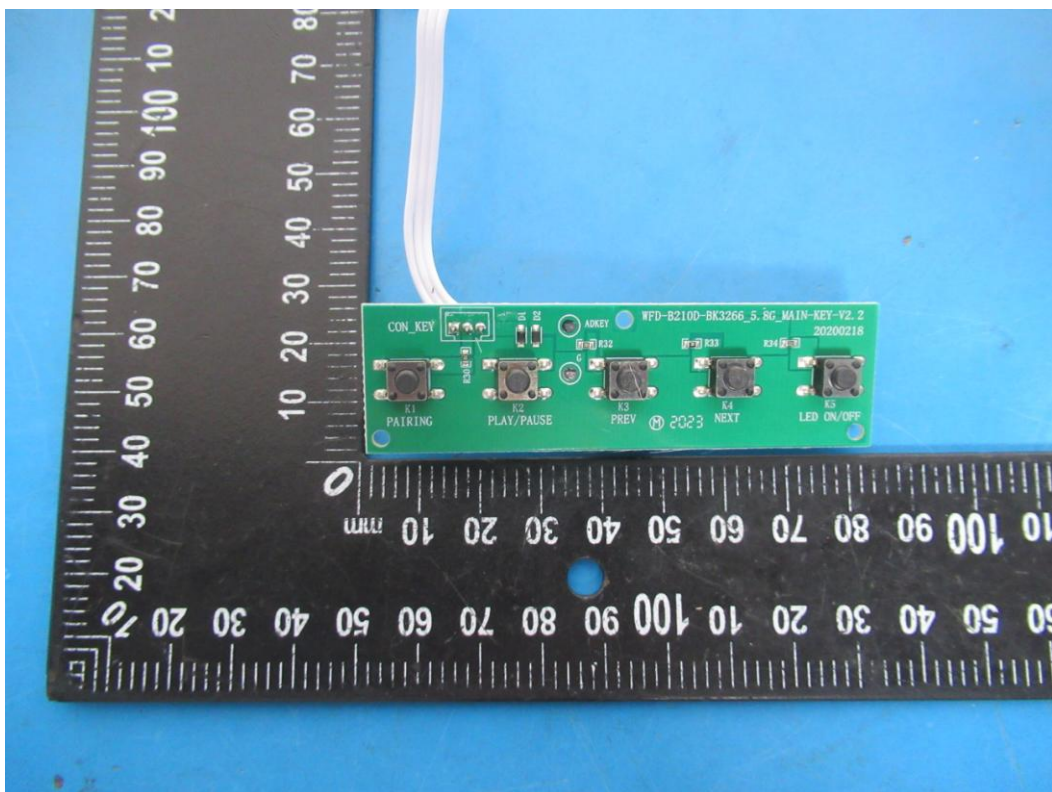
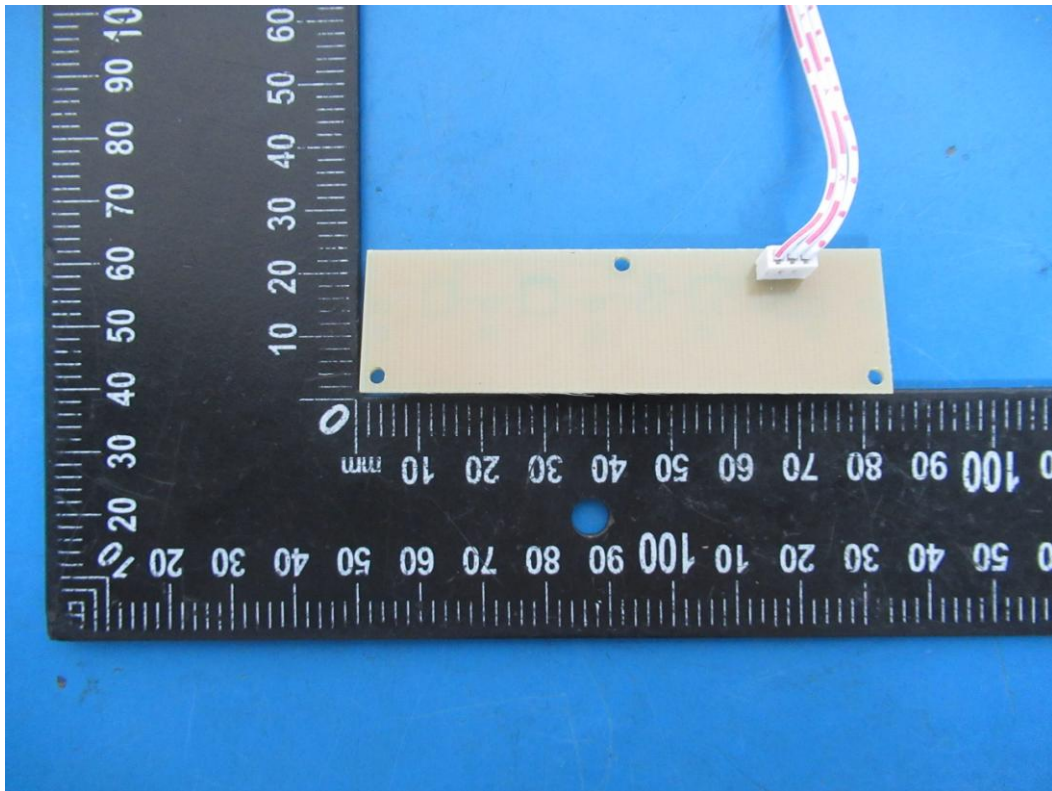


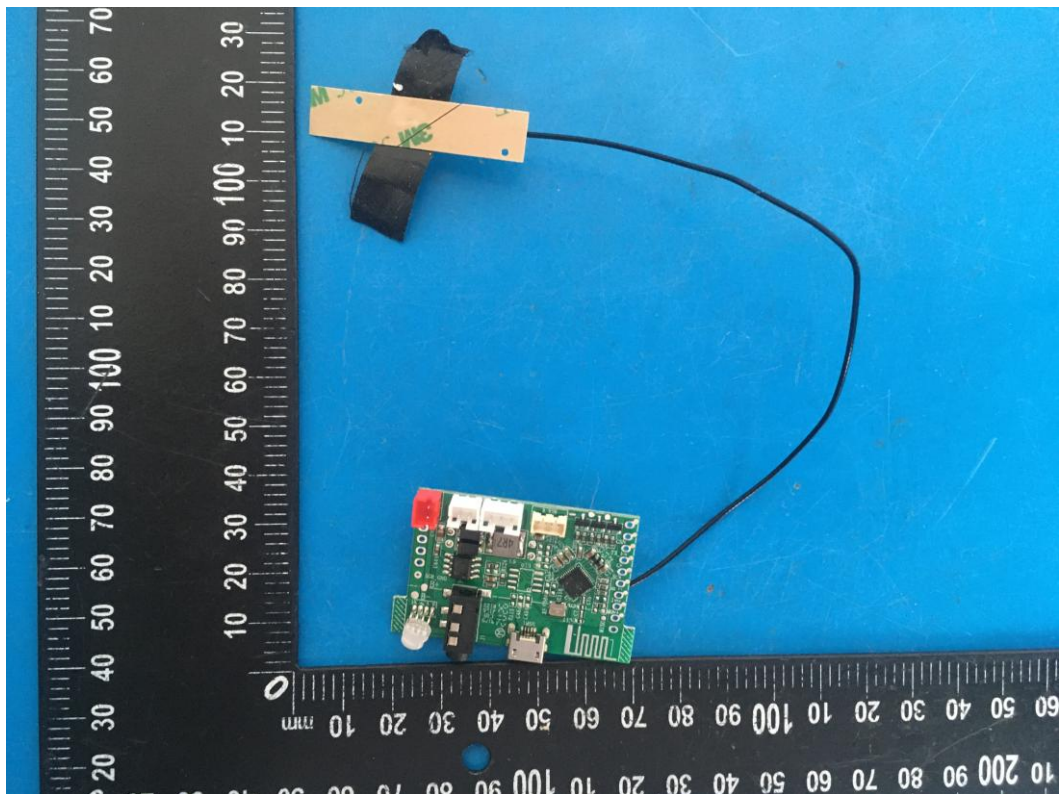
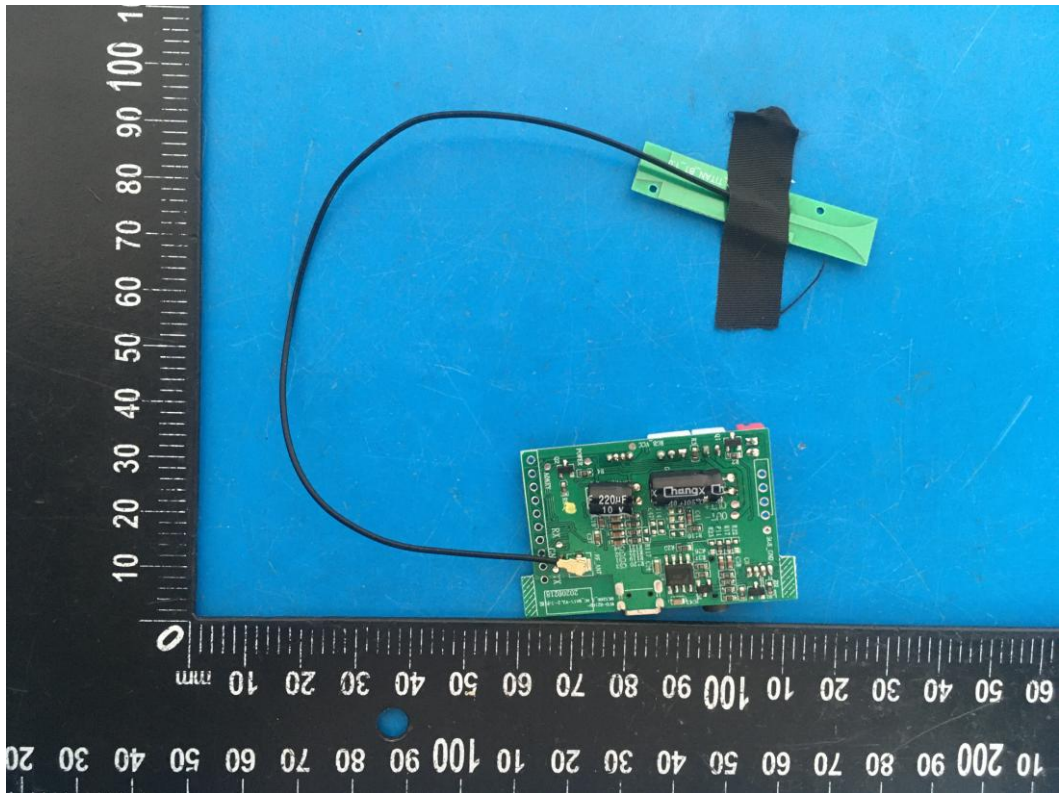


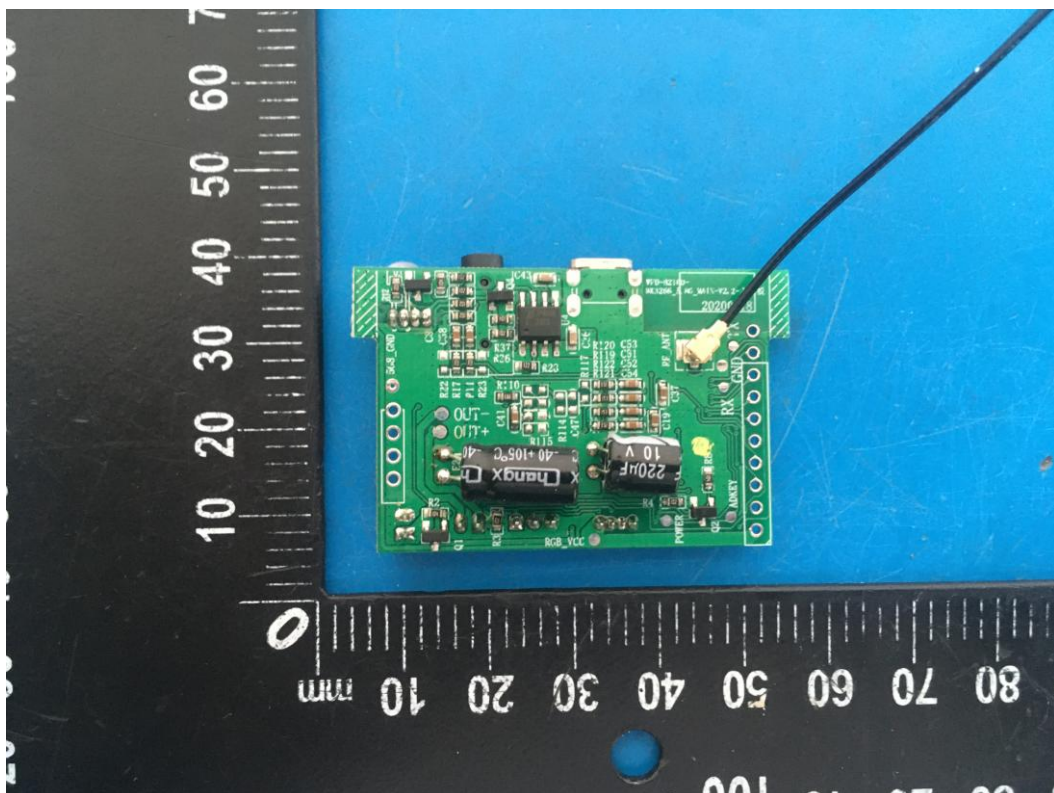
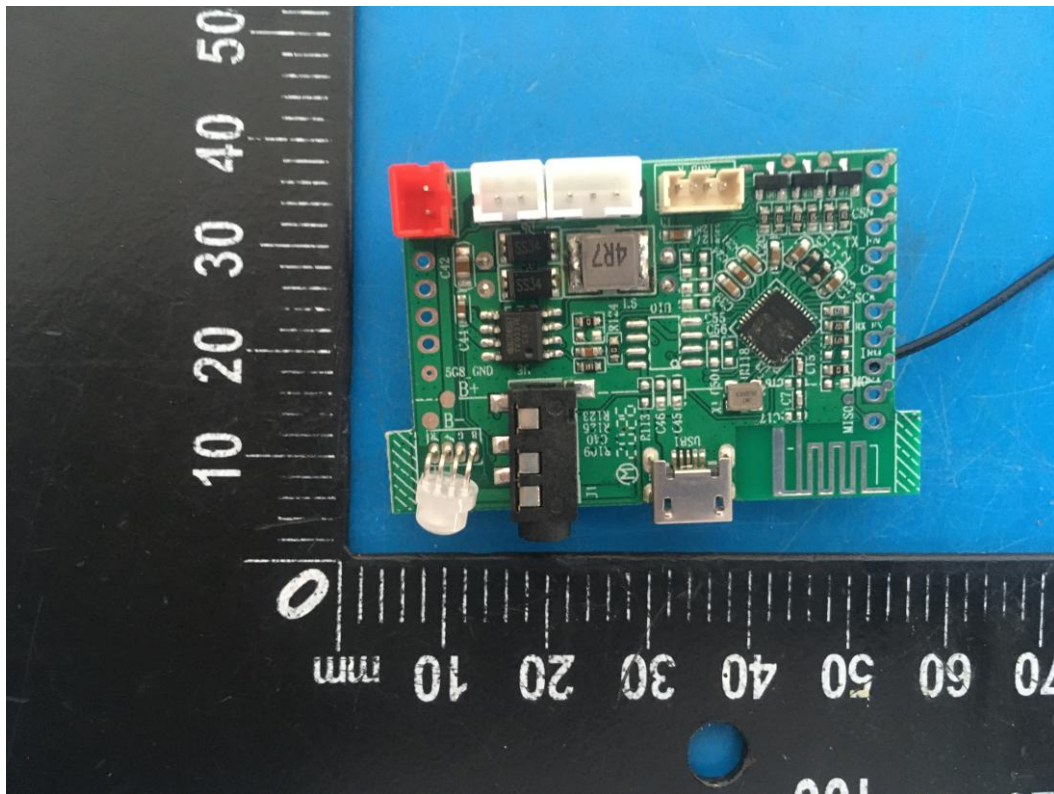












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