



FCC TEST REPORT

FCC ID: 2BCU4YD85722898-14

On Behalf of

SHANTOU YUANDI TOYS INDUSTRIAL CO.,LIMITED

REMOTE CONTROL TOY SERIES

Model No.: See model list

Prepared for : SHANTOU YUANDI TOYS INDUSTRIAL CO.,LIMITED
Address : SHANGDAI INDUSTRIAL AREA, CHENGHAI DISTRICT, SHANTOU
CITY, GUANGDONG PROVINCE China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.
Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

Report Number : A2510116-C01-R01
Date of Receipt : October 17, 2025
Date of Test : October 17, 2025 - November 27, 2025
Date of Report : November 27, 2025
Version Number : V0
Result Pass

TABLE OF CONTENTS

<u>Description</u>	<u>Page</u>
1. Summary of Standards And Results-----	6
1.1. Description of Standards and Results -----	6
2. General Information -----	7
2.1. Description of Device (EUT) -----	7
2.2. Accessories of Device (EUT) -----	9
2.3. Tested Supporting System Details-----	9
2.4. Block Diagram of connection between EUT and simulators-----	9
2.5. Test Mode Description -----	9
2.6. Test Conditions -----	9
2.7. Test Facility -----	10
2.8. Measurement Uncertainty -----	10
2.9. Test Equipment List-----	11
3. Spurious Emission-----	13
3.1. Test Limits-----	13
3.2. Test Procedure-----	14
3.3. Test Setup-----	15
3.4. Test Results-----	17
4. Power Line Conducted Emission-----	24
4.1. Test Limits-----	24
4.2. Test Procedure-----	24
4.3. Test Setup-----	24
4.4. Test Results-----	24
5. Conducted Maximum Output Power-----	25
5.1. Test limits-----	25
5.2. Test Procedure-----	25
5.3. Test Setup-----	25
5.4. Test Results-----	25
6. Peak Power Spectral Density -----	26
6.1. Test limits-----	26
6.2. Test Procedure-----	26
6.3. Test Setup-----	26
6.4. Test Results-----	26
7. Bandwidth-----	29
7.1. Test limits-----	29
7.2. Test Procedure-----	29
7.3. Test Setup-----	29
7.4. Test Results-----	29
8. Band Edge Check -----	34
8.1. Test limits-----	34
8.2. Test Procedure-----	34
8.3. Test Setup-----	34
8.4. Test Results-----	34
9. Antenna Requirement -----	38
9.1. Standard Requirement-----	38
9.2. Antenna Connected Construction -----	38
9.3. Results-----	38

10. Test Setup Photo	39
10.1. Photos of Radiated emission	39
11. Photos of EUT	40
12. Model list	48

TEST REPORT DECLARATION

Applicant : SHANTOU YUANDI TOYS INDUSTRIAL CO.,LIMITED
Address : SHANGDAI INDUSTRIAL AREA, CHENGHAI DISTRICT, SHANTOU CITY,
GUANGDONG PROVINCE China
Manufacturer : SHANTOU YUANDI TOYS INDUSTRIAL CO.,LIMITED
Address : SHANGDAI INDUSTRIAL AREA, CHENGHAI DISTRICT, SHANTOU CITY,
GUANGDONG PROVINCE China
EUT Description : REMOTE CONTROL TOY SERIES
(A) Model No. : See model list
(B) Trademark : N/A

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247,
ANSI C63.10:2020, CISPR 16-1-4:2010

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....: Yannis Wen
Project Engineer

Yannis Wen

Approved by (name + signature).....: Jack Xu
Project Manager

Jack Xu

Date of issue.....: November 27, 2025

Revision History

Revision	Issue Date	Revisions	Revised By
V0	November 27, 2025	Initial released Issue	Yannis Wen

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Standards Paragraph	Result
Conducted Emission	FCC Part 15: 15.207 ANSI C63.10:2020	N
6dB Bandwidth	FCC PART 15:15.247(a)(2) ANSI C63.10:2020	P
Output Power	FCC Part 15: 15.247(b)(3) ANSI C63.10:2020	P
Radiated Spurious Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10:2020	P
Conducted Spurious & Band Edge Emission	FCC Part 15: 15.247(d) ANSI C63.10:2020	P
Power Spectral Density	FCC PART 15:15.247(e) ANSI C63.10:2020	P
Radiated Band Edge Emission	FCC Part 15: 15.247(d) ANSI C63.10:2020	P
Antenna Requirement	FCC Part 15: 15.203	P
Note: 1. P is an abbreviation for Pass. 2. F is an abbreviation for Fail. 3. N/A is an abbreviation for Not Applicable. 4. Decision rules for the conclusion of this test report: decision by actual test data without considering measurement uncertainty.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

Description/PMN	:	REMOTE CONTROL TOY SERIES
Model	:	See model list
Number/HVIN(s)	:	
Diff.	:	There is no difference except the name of the model. All tests are made with the YD898-MT6525 model.
Test Voltage	:	DC 3V from battery.
Radio Technology	:	2.4G Technology
Operation frequency	:	2405-2475MHz
Channel No.	:	71channels
Modulation	:	GFSK
Antenna Type	:	Internal antenna, max gain 0.59dBi (Antenna information is provided by applicant.)
Software Version	:	V1.0
Hardware version/FVIN	:	V1.0
Intend use environment		Residential, commercial and light industrial environment

Channel list:
2405-2475MHz

Channel	Freq (MHz)	Channel	Freq (MHz)	Channel	Freq (MHz)	Channel	Freq (MHz)	Channel	Freq (MHz)
0CH	2405	15CH	2420	30CH	2435	45CH	2450	60CH	2465
1CH	2406	16CH	2421	31CH	2436	46CH	2451	61CH	2466
2CH	2407	17CH	2422	32CH	2437	47CH	2452	62CH	2467
3CH	2408	18CH	2423	33CH	2438	48CH	2453	63CH	2468
4CH	2409	19CH	2424	34CH	2439	49CH	2454	64CH	2469
5CH	2410	20CH	2425	35CH	2440	50CH	2455	65CH	2470
6CH	2411	21CH	2426	36CH	2441	51CH	2456	66CH	2471
7CH	2412	22CH	2427	37CH	2442	52CH	2457	67CH	2472
8CH	2413	23CH	2428	38CH	2443	53CH	2458	68CH	2473
9CH	2414	24CH	2429	39CH	2444	54CH	2459	69CH	2474
10CH	2415	25CH	2430	40CH	2445	55CH	2460	70CH	2475
11CH	2416	26CH	2431	41CH	2446	56CH	2461		
12CH	2417	27CH	2432	42CH	2447	57CH	2462		
13CH	2418	28CH	2433	43CH	2448	58CH	2463		
14CH	2419	29CH	2434	44CH	2449	59CH	2464		

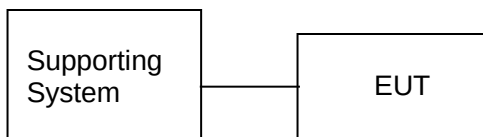
2.2. Accessories of Device (EUT)

Accessories : /
 Manufacturer : /
 Model : /
 Ratings : /

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1.	N/A	N/A	N/A	N/A	N/A

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

Tested mode, channel, and data rate information		
Mode	Channel	Frequency (MHz)
GFSK	Low : CH0	2405
	Middle: CH35	2440
	High: CH70	2475

The test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode.

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	27℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	1.63dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	3.5dB
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.74dB(Polarize: V)
	3.76dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (18GHz to 40GHz)	4.31 dB(Polarize: V)
	4.30 dB(Polarize: H)
Uncertainty for radio frequency	5.06×10^{-8} GHz
Uncertainty for conducted RF Power	0.40dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2.9. Test Equipment List

Equipment	Manufacturer	Model No.	Firmware version	Serial No.	Last Cal.	Cal. Due day
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2025.03.09	4Year
4*4*3 Shielded room	CHENYU	4*4*3	/	N/A	2025.03.09	4Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2025.08.04	1Year
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2025.08.04	1Year
Test Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2025.08.04	1Year
Test Receiver	ROHDE&SCHWARZ	ESCI	4.42 SP1	101165	2025.08.04	1Year
Bilog Antenna	SCHWARZBECK	VULB 9168	/	VULB 9168#627	2025.08.11	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2025.08.11	2Year
Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00128	2025.08.11	2Year
RF Cable	Resenberger	Cable 1	/	RE1	2025.08.04	1Year
RF Cable	Resenberger	Cable 2	/	RE2	2025.08.04	1Year
RF Cable	Resenberger	Cable 3	/	CE1	2025.08.04	1Year
Amplifier	HP	HP8347A	/	2834A00455	2025.08.04	1Year
Amplifier	Agilent	8449B	/	3008A02664	2025.08.04	1Year
L.I.S.N.#1	SCHWARZBECK	NSLK8126	/	8126-466	2025.08.04	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2025.08.04	1Year
Horn Antenna	SCHWARZBECK	BBHA 9170	/	00946	2025.08.11	2Year
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2025.08.04	1 Year
Power Meter	Agilent	E4419B	/	GB40202122	2025.08.04	1 Year
Power Sensor	Agilent	E9300A	/	MY41496628	2025.08.04	1 Year
Power Sensor	Agilent	E9304A	/	MY41496815	2025.08.04	1 Year
Temp. & Humid. Chamber	Teelong	TL-HW408S	/	TL-20191205-01	2025.07.14	1 Year
Electronic Thermo-Hygrometer	S.H.Qixiang	HTC-1	/	N/A	2025.08.04	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2025.08.04	1 Year
Adjustable attenuator	MWRFTtest	N/A	/	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A

Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	Farad	Alpha-3A1
RF-CE	MTS 8310	MWRFtest	V2.0.0.0

3. SPURIOUS EMISSION

3.1. Test Limits

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

Note 1: The peak limit is 20 dB higher than the average limit

Note 2: Peak limit applies (AVG limit + 20 dB) as well as RSS-247 Section 5.5

Harmonic emissions limits comply with below 54 dBuV/m at 3m. Other emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or comply with the radiated emissions limits specified in section 15.209(a) limit in the table below has to be followed.

Table 5 – General field strength limits at frequencies above 30 MHz

Frequency (MHz)	Field strength ($\mu\text{V/m}$ at 3 m)
30 – 88	100
88 – 216	150
216 – 960	200
Above 960	500

Table 6 – General field strength limits at frequencies below 30 MHz

Frequency	Magnetic field strength (H-Field) ($\mu\text{A/m}$)	Measurement distance (m)
9 - 490 kHz ^{Note 1}	6.37/F (F in kHz)	300
490 - 1705 kHz	63.7/F (F in kHz)	30
1.705 - 30 MHz	0.08	30

Note 1: The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

3.2. Test Procedure

The measuring distance of 3m shall be used for measurements at frequency up to 1GHz and above 1GHz.

The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above 1GHz testing. The table was rotated 360 degrees to determine the position of the highest radiation.

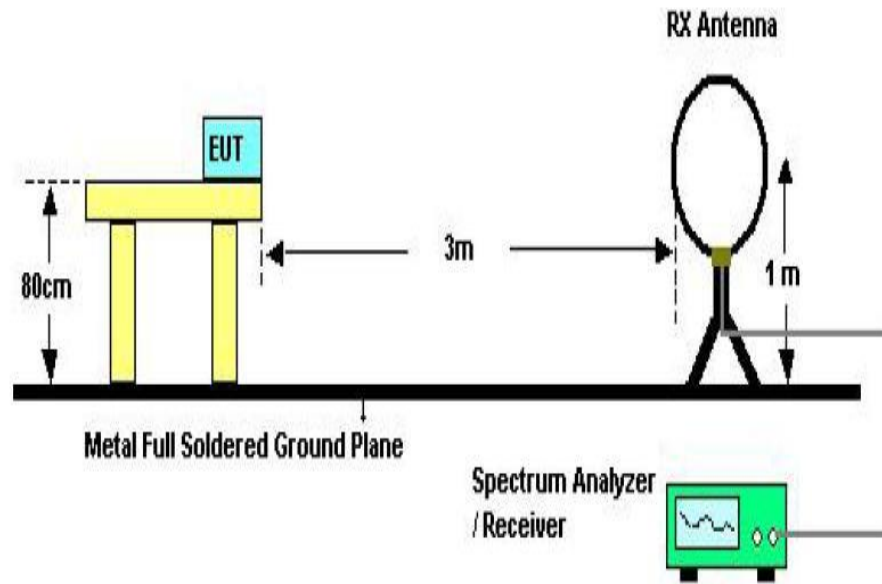
The Test antenna shall vary between 1m and 4m, Both Horizontal and Vertical antenna are set of make measurement.

The initial step in collecting radiated emission data is a spectrum analyzer Peak detector mode pre-scanning the measurement frequency range. Significant Peaks are then marked. and then Quasi Peak Detector mode premeasured.

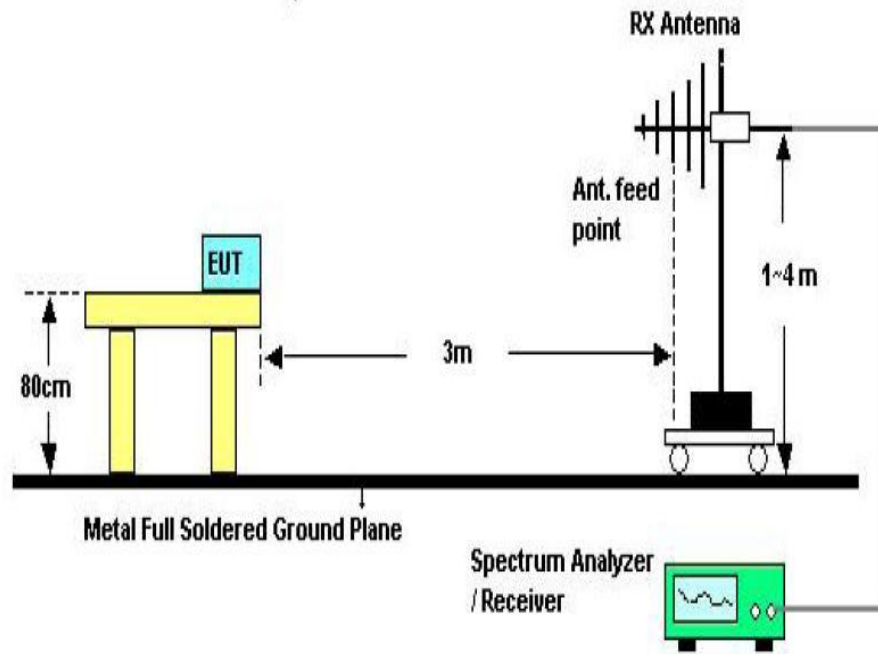
If Peak value comply with QP limit Below 1GHz, the EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.

For the actual test configuration, please see the test setup photo.

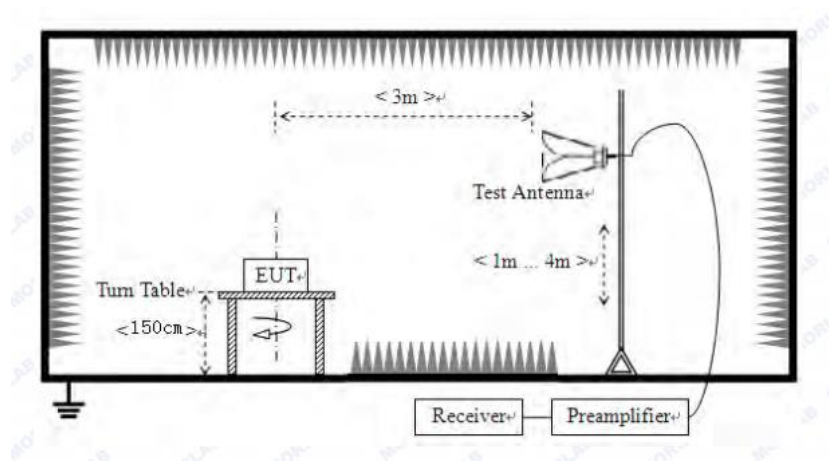
3.3. Test Setup



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

3.4. Test Results

Test Condition

Continual Transmitting in maximum power.

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHz~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

We have scanned from 9 kHz to the 10th harmonic of the EUT.

Detailed information please see the following page.

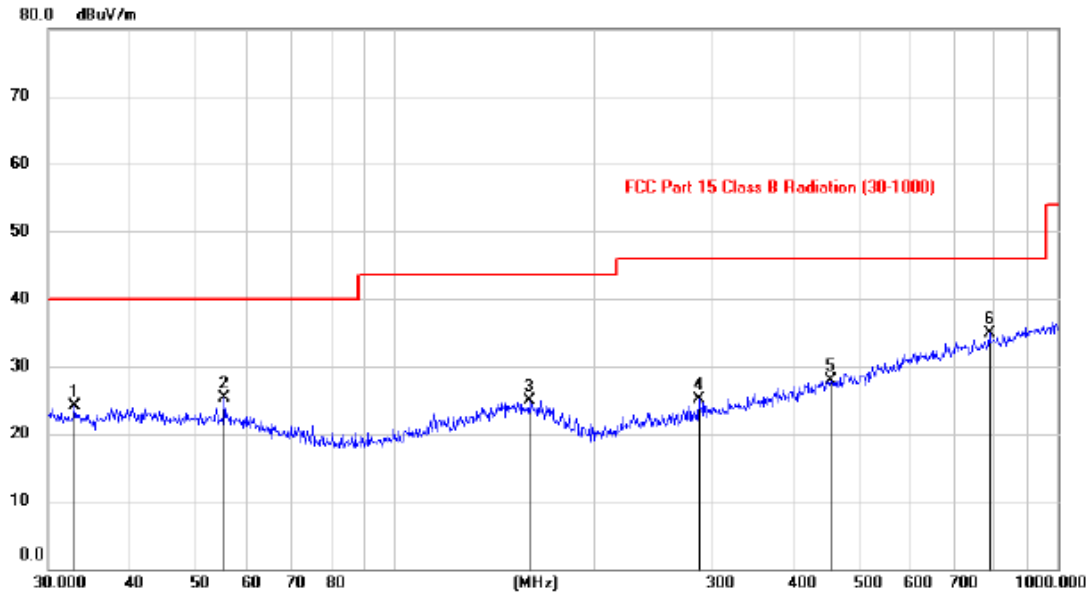
From 9KHz to 30MHz: Conclusion: Pass

Note: 1.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

2.Only show the test data of the worst Channel in this report.

From 30MHz to 1000MHz: Conclusion: Pass

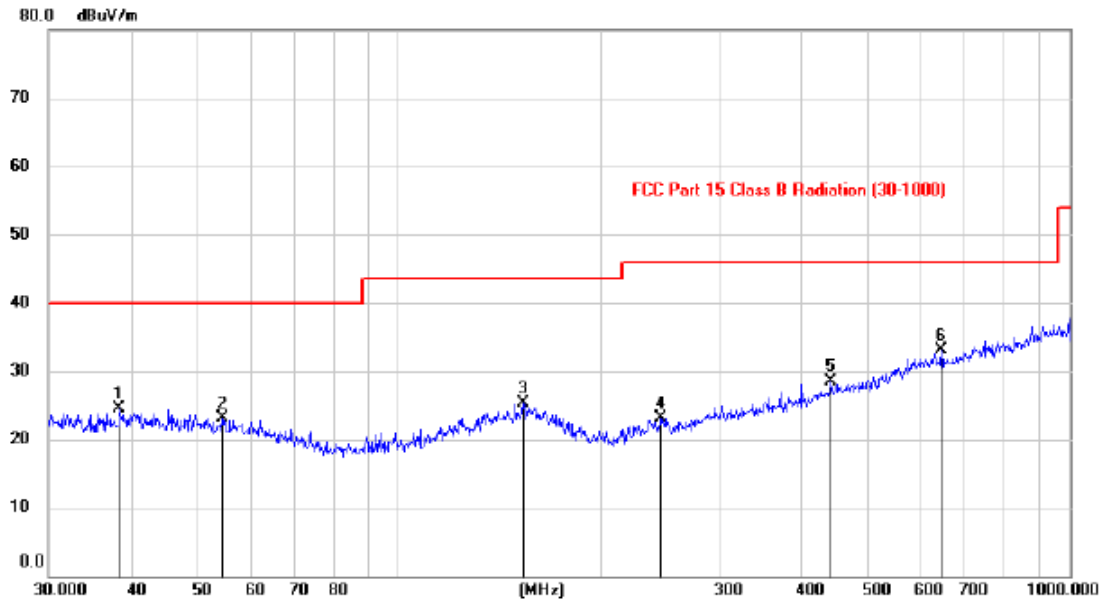
Vertical:



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector
1		32.8983	10.49	13.65	24.14	40.00	-15.86	peak
2		55.2724	11.68	13.57	25.25	40.00	-14.75	peak
3		159.7471	9.94	15.04	24.98	43.50	-18.52	peak
4		287.6540	11.30	13.81	25.11	46.00	-20.89	peak
5		454.3631	10.30	17.61	27.91	46.00	-18.09	peak
6	*	788.4961	12.01	22.83	34.84	46.00	-11.16	peak

Note:1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Horizontal:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1		38.3418	10.26	14.23	24.49	40.00	-15.51	peak
2		54.4707	9.44	13.65	23.09	40.00	-16.91	peak
3		152.8784	10.26	15.05	25.31	43.50	-18.19	peak
4		245.4627	10.37	12.67	23.04	46.00	-22.96	peak
5		440.7111	11.13	17.34	28.47	46.00	-17.53	peak
6	*	643.6884	12.14	21.01	33.15	46.00	-12.85	peak

Note: 1. *:Maximum data; x:Over limit; !:over margin.

2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Notes: Above is below 1GHz test data. This report only shall the worst case mode for TX 2440MHz.

Test Mode: TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4810	42.61	V	33.95	10.18	34.26	52.48	74	-21.52	PK
4810	38.28	V	33.95	10.18	34.26	48.15	54	-5.85	AV
7215	/	/	/	/	/	/	/	/	/
9620	/	/	/	/	/	/	/	/	/
4810	46.42	H	33.95	10.18	34.26	56.29	74	-17.71	PK
4810	36.46	H	33.95	10.18	34.26	46.33	54	-7.67	AV
7215	/	/	/	/	/	/	/	/	/
9620	/	/	/	/	/	/	/	/	/
Test Mode: TX Mid									
4880	41.94	V	33.93	10.2	34.29	51.78	74	-22.22	PK
4880	35.90	V	33.93	10.2	34.29	45.74	54	-8.26	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
4880	46.60	H	33.93	10.2	34.29	56.44	74	-17.56	PK
4880	33.50	H	33.93	10.2	34.29	43.34	54	-10.66	AV
7320	/	/	/	/	/	/	/	/	/
9760	/	/	/	/	/	/	/	/	/
Test Mode: TX High									
4950	45.59	V	33.98	10.22	34.25	55.54	74	-18.46	PK
4950	35.87	V	33.98	10.22	34.25	45.82	54	-8.18	AV
7425	/	/	/	/	/	/	/	/	/
9900	/	/	/	/	/	/	/	/	/
4950	42.70	H	33.98	10.22	34.25	52.65	74	-21.35	PK
4950	31.45	H	33.98	10.22	34.25	41.40	54	-12.60	AV
7425	/	/	/	/	/	/	/	/	/
9900	/	/	/	/	/	/	/	/	/

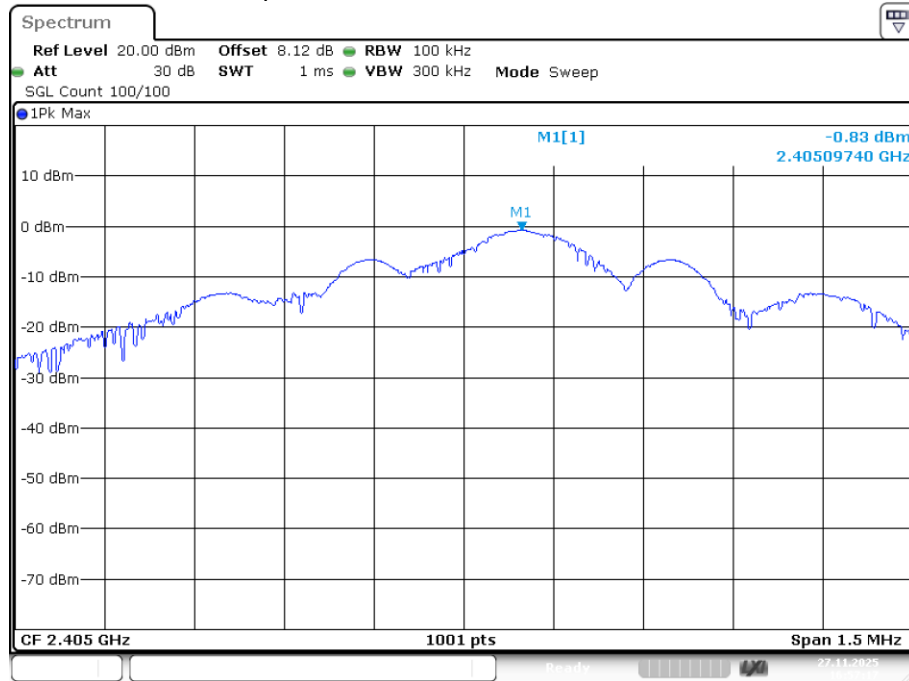
Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

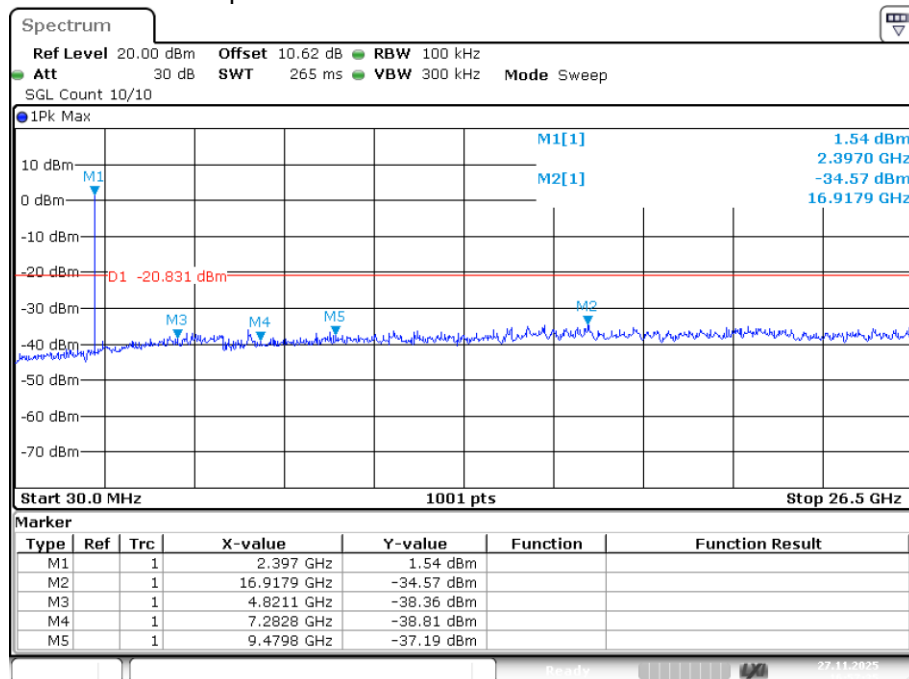
Conducted RF Spurious Emission

Tx. Spurious NVNT 2.4G 2405MHz Ant1 Ref



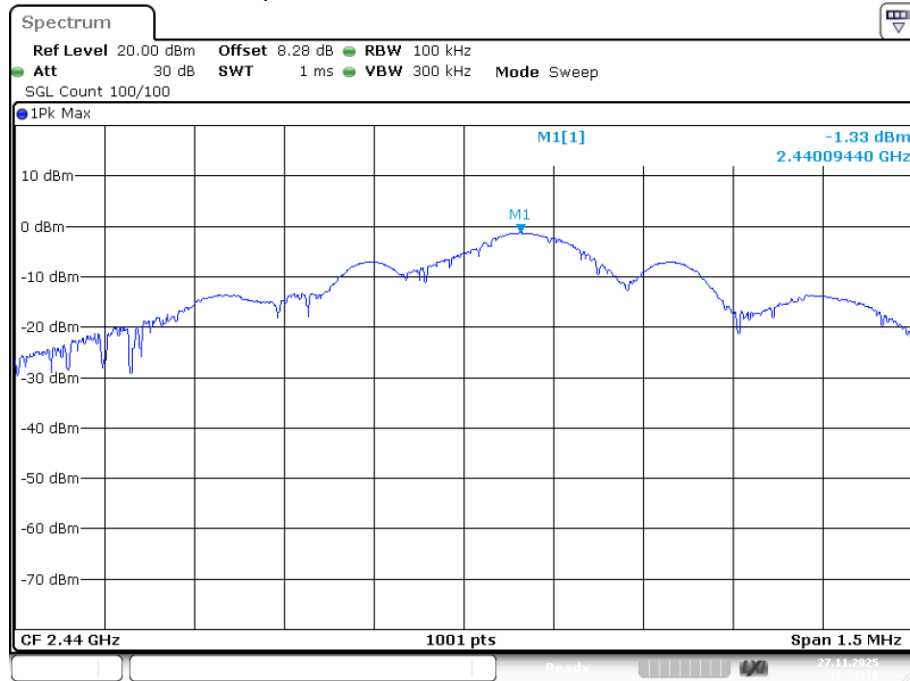
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Tx. Spurious NVNT 2.4G 2405MHz Ant1 Emission



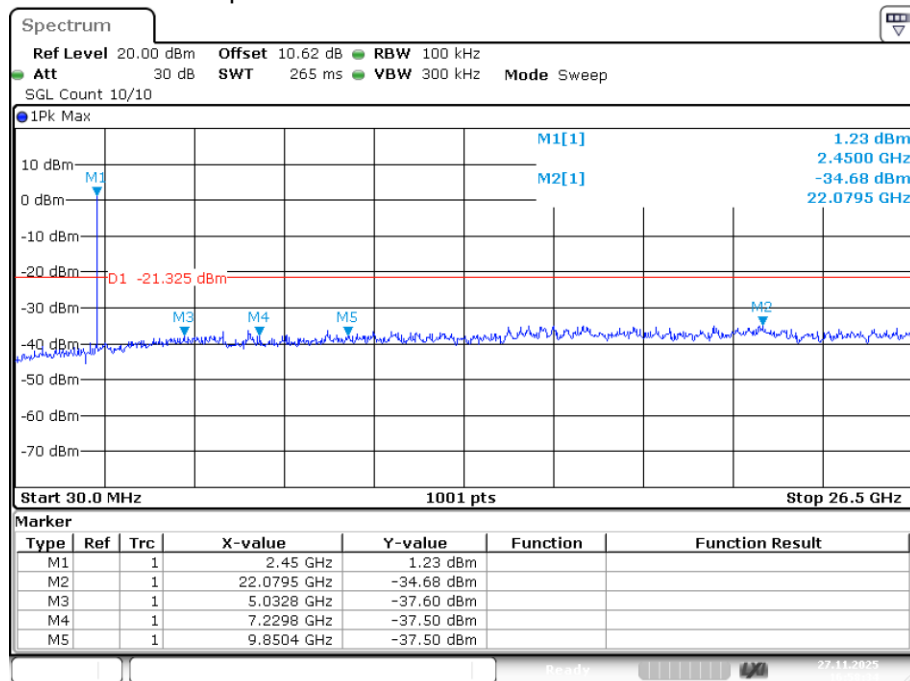
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Tx. Spurious NVNT 2.4G 2440MHz Ant1 Ref



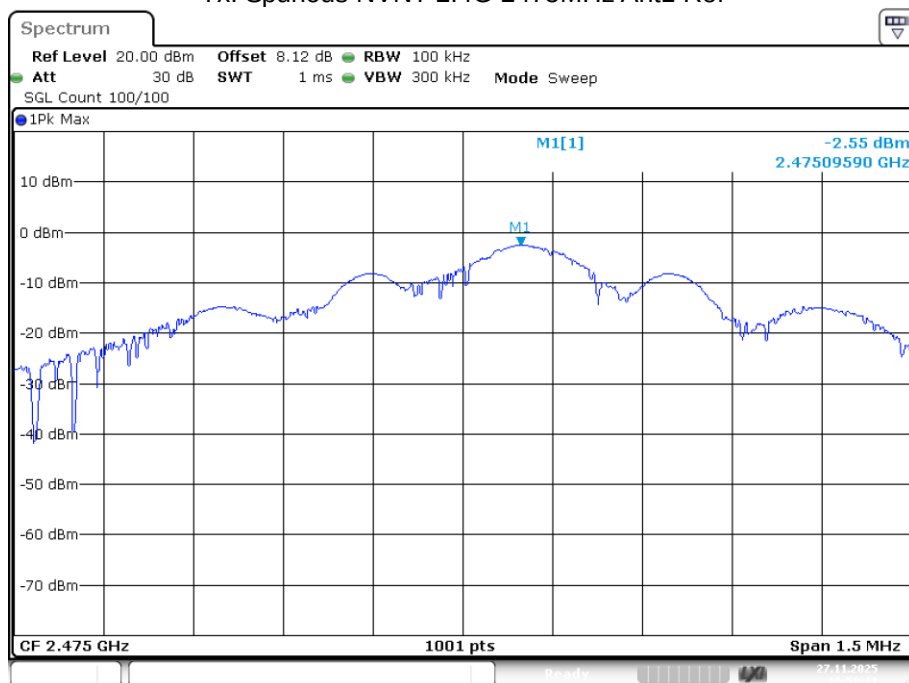
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Tx. Spurious NVNT 2.4G 2440MHz Ant1 Emission



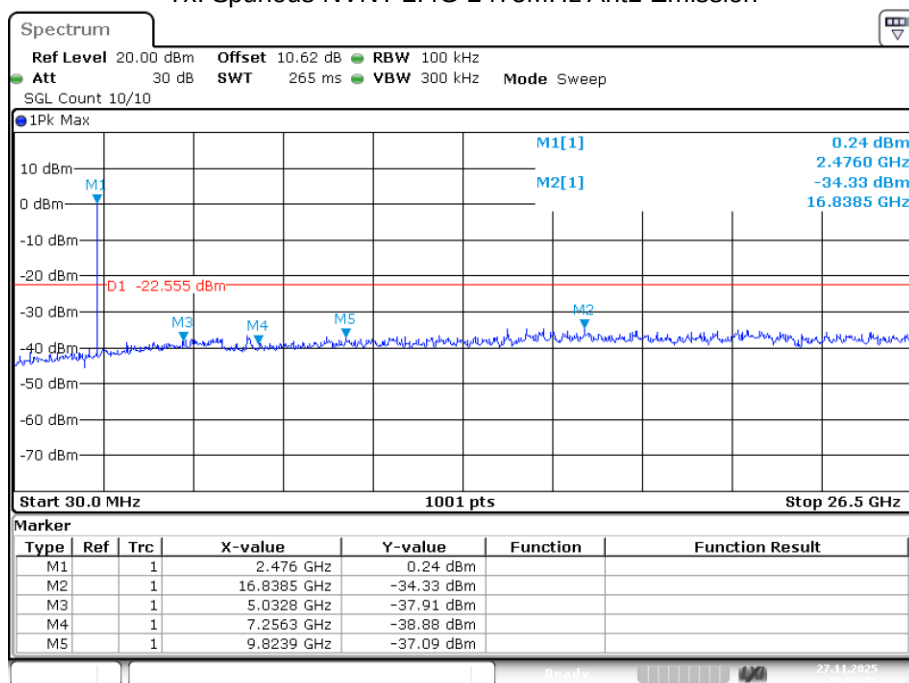
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Tx. Spurious NVNT 2.4G 2475MHz Ant1 Ref



Date: 27.NOV.2025 16:59:11

Tx. Spurious NVNT 2.4G 2475MHz Ant1 Emission



Date: 27.NOV.2025 16:59:30

4. POWER LINE CONDUCTED EMISSION

4.1. Test Limits

Frequency MHz	Limits dB(μ V)	
	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

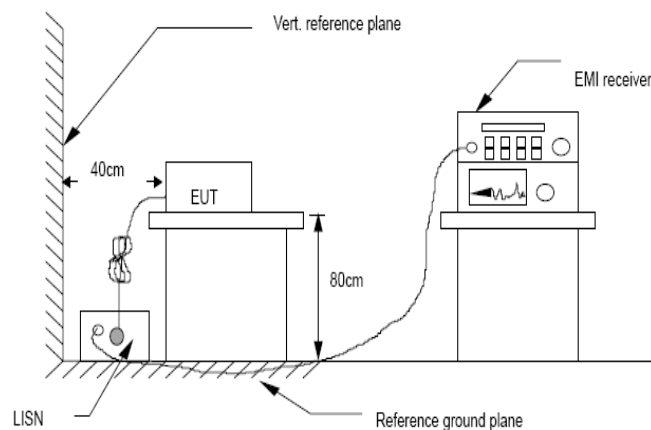
Notes: 1. *Decreasing linearly with logarithm of frequency.
 2. The lower limit shall apply at the transition frequencies.
 3. The limit decreases in line with the logarithm of the frequency in rang of 0.15 to 0.50 MHz.

4.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10:2020 on Conducted Emission Measurement.

The bandwidth of test receiver is set at 9 kHz.

4.3. Test Setup



4.4. Test Results

N/A

EUT power supply by battery, so the test not applicable.

5. CONDUCTED MAXIMUM OUTPUT POWER

5.1. Test limits

Please refer section RSS-247 & 15.247.

Please refer RSS-247 & FCC PART 15: 15.247.

Regulation 15.247(b) The limit of Maximum Peak conducted output power Measurement is 1W(30dBm). The eirp. shall not exceed 4 W(36dBm).

5.2. Test Procedure

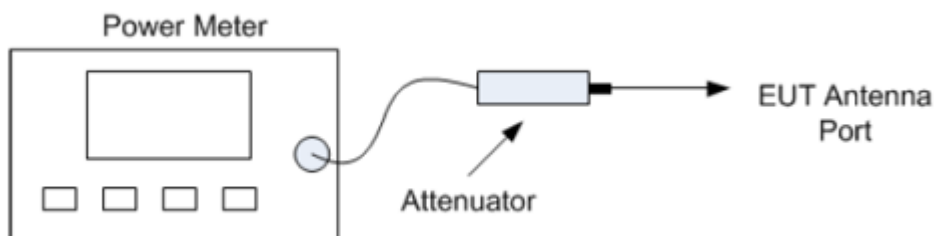
Details see the ANSI C63.10:2020

5.2.1 Place the EUT on the table and connected to a power meter. The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

5.2.2 At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.

5.2.3 Measure out each mode and each bands Peak output power of EUT

5.3. Test Setup



5.4. Test Results

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2405	Ant1	0.366	30	Pass
NVNT	2.4G	2440	Ant1	-0.28	30	Pass
NVNT	2.4G	2475	Ant1	-1.564	30	Pass

6. PEAK POWER SPECTRAL DENSITY

6.1. Test limits

6.1.1 Please refer section 15.247.

6.1.2 For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

6.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

6.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

6.2.1 Place the EUT on the table and set it in transmitting mode.

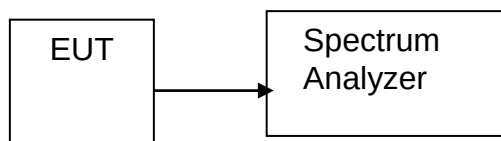
6.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

6.2.3 Set the spectrum analyzer as RBW = 3kHz(Set the RBW to: $3\text{ kHz} \leq \text{RBW} \leq 100\text{ kHz}$.), VBW = 10kHz(Set the $\text{VBW} \geq 3 \times \text{RBW}$), span $\geq 1.5 \times \text{DTS bandwidth}$., detail see the test plot.

6.2.4 Record the max reading.

6.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

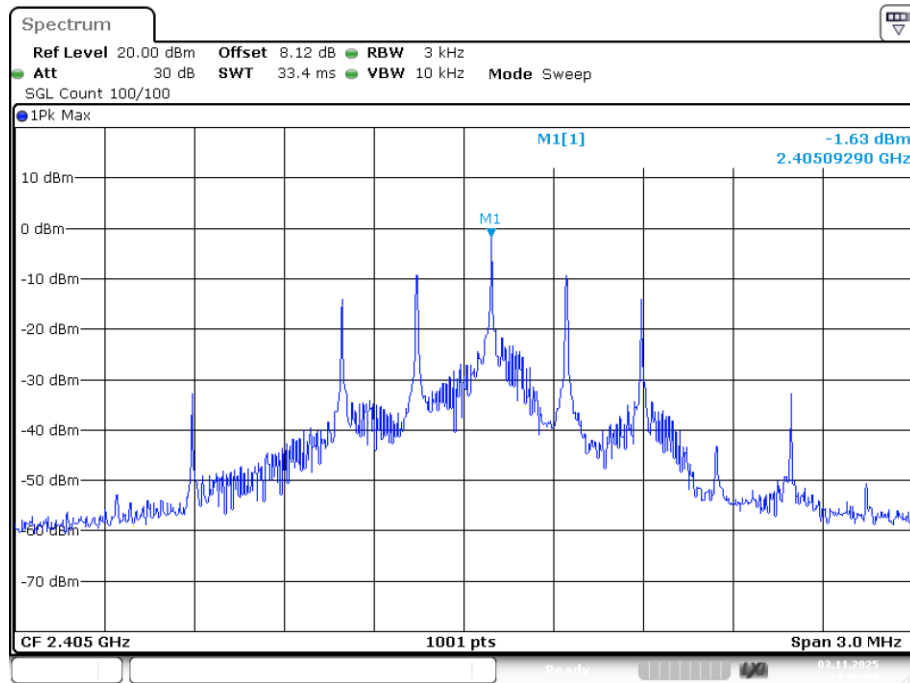
6.3. Test Setup



6.4. Test Results

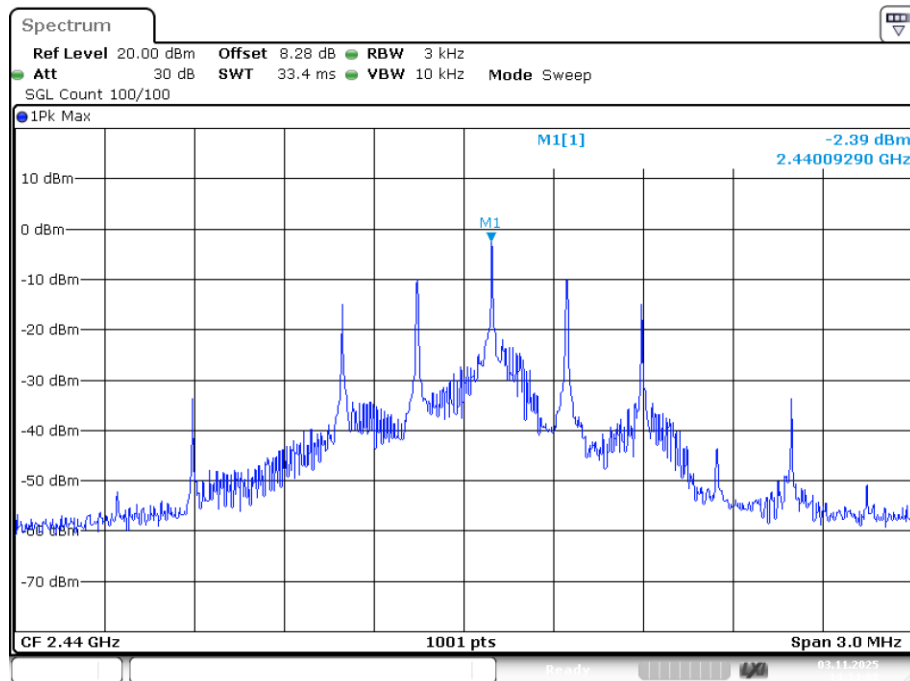
Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	2.4G	2410	Ant1	-1.632	8	Pass
NVNT	2.4G	2437	Ant1	-2.39	8	Pass
NVNT	2.4G	2473	Ant1	-4.049	8	Pass

PSD NVNT 2.4G 2405MHz Ant1



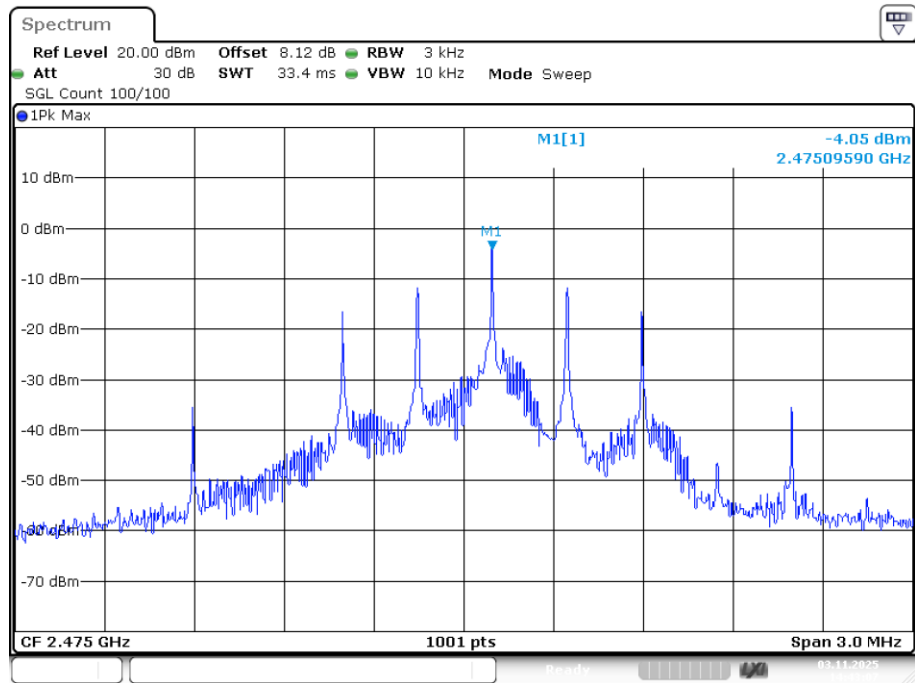
Date: 3.NOV.2025 14:32:59

PSD NVNT 2.4G 2440MHz Ant1



Date: 3.NOV.2025 14:34:08

PSD NVNT 2.4G 2475MHz Ant1



Date: 3.NOV.2025 14:43:07

7. BANDWIDTH

7.1. Test limits

Please refer section 15.247

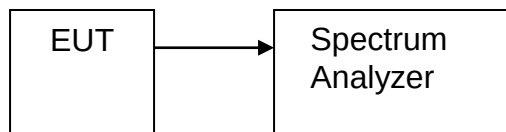
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

7.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

- a) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
- b) The test receiver set RBW = 1-5%BW, VBW $\geq 3 \times$ RBW, Sweep time set auto, detail see the test plot for 99% Bandwidth.
- c) The test receiver set RBW = 100kHz, VBW $\geq 3 \times$ RBW = 300kHz, Sweep time set auto, detail see the test plot for 6dB Bandwidth.

7.3. Test Setup

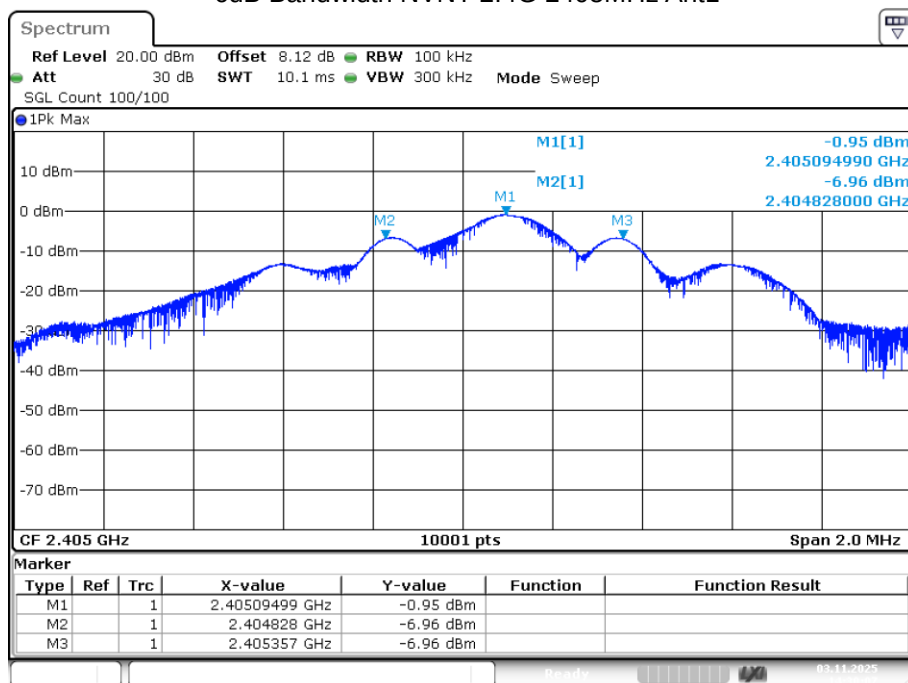


7.4. Test Results

-6dB Bandwidth

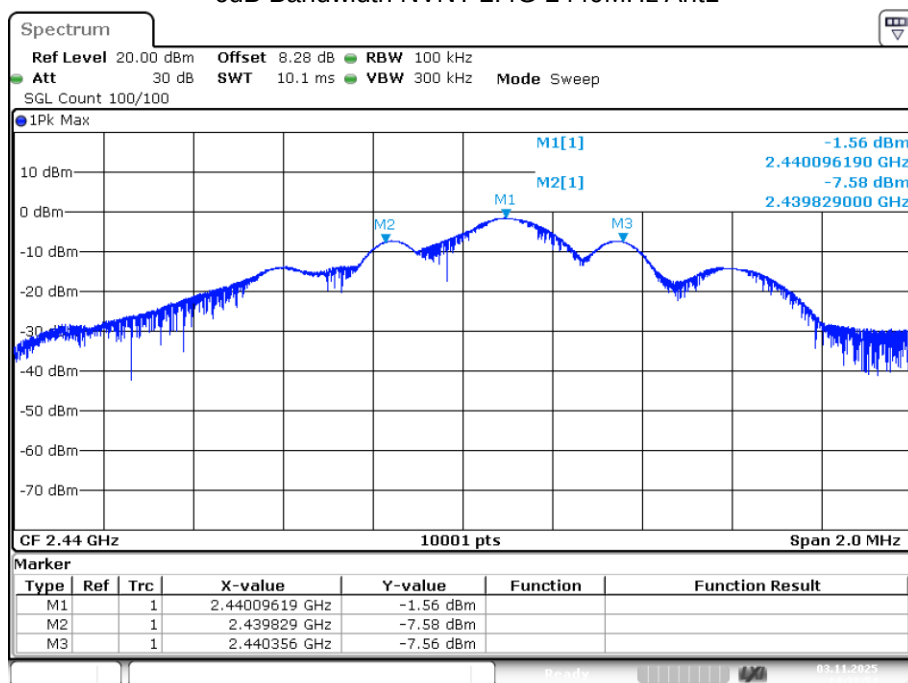
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	2.4G	2405	Ant1	0.529	0.5	Pass
NVNT	2.4G	2440	Ant1	0.526	0.5	Pass
NVNT	2.4G	2475	Ant1	0.525	0.5	Pass

-6dB Bandwidth NVNT 2.4G 2405MHz Ant1



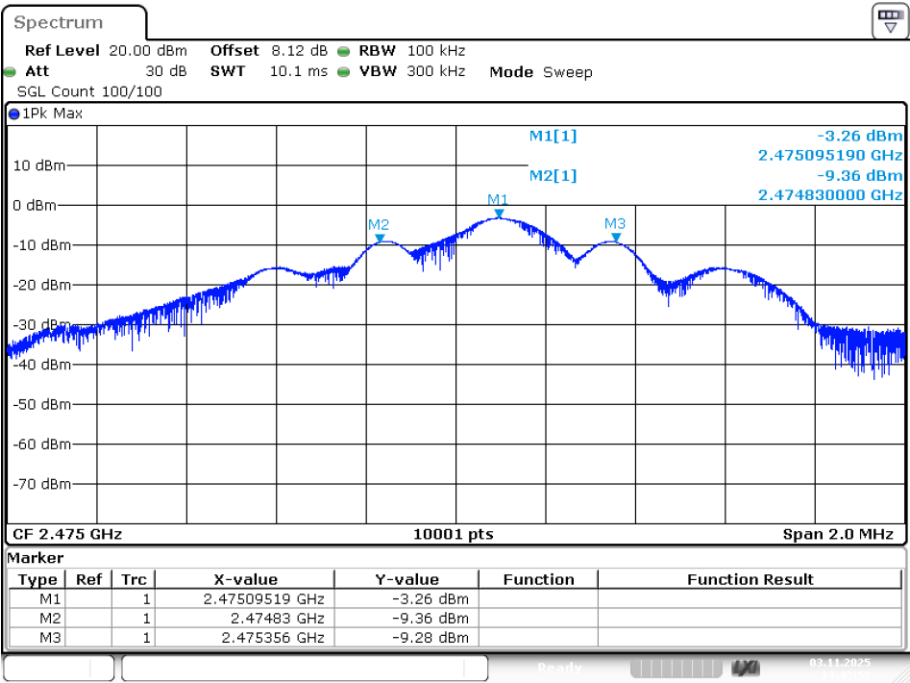
Date: 3.NOV.2025 14:30:07

-6dB Bandwidth NVNT 2.4G 2440MHz Ant1



Date: 3.NOV.2025 14:33:53

-6dB Bandwidth NVNT 2.4G 2475MHz Ant1

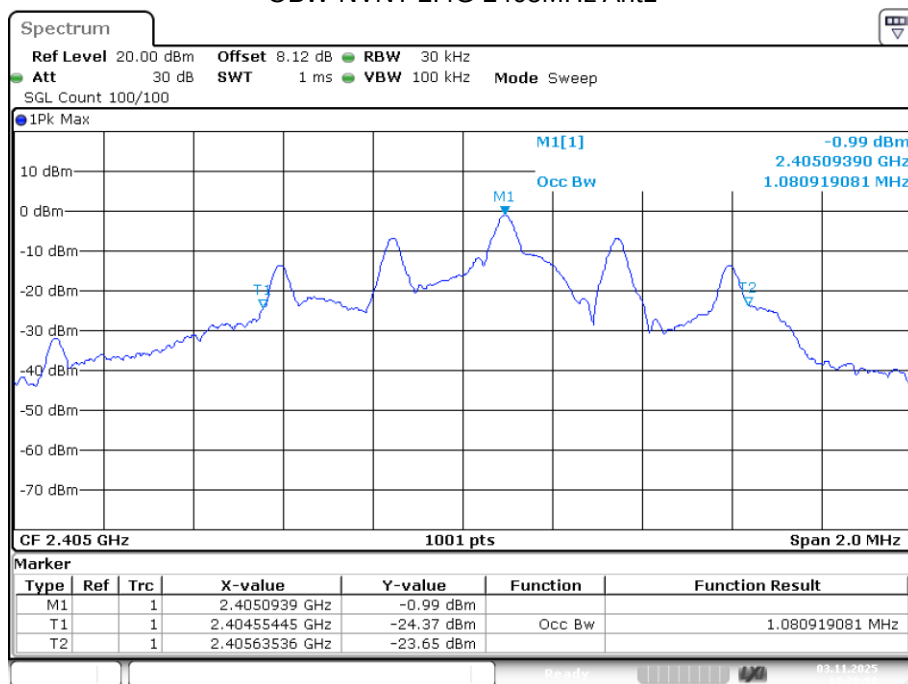


Date: 3.NOV.2025 14:42:52

Occupied Channel Bandwidth

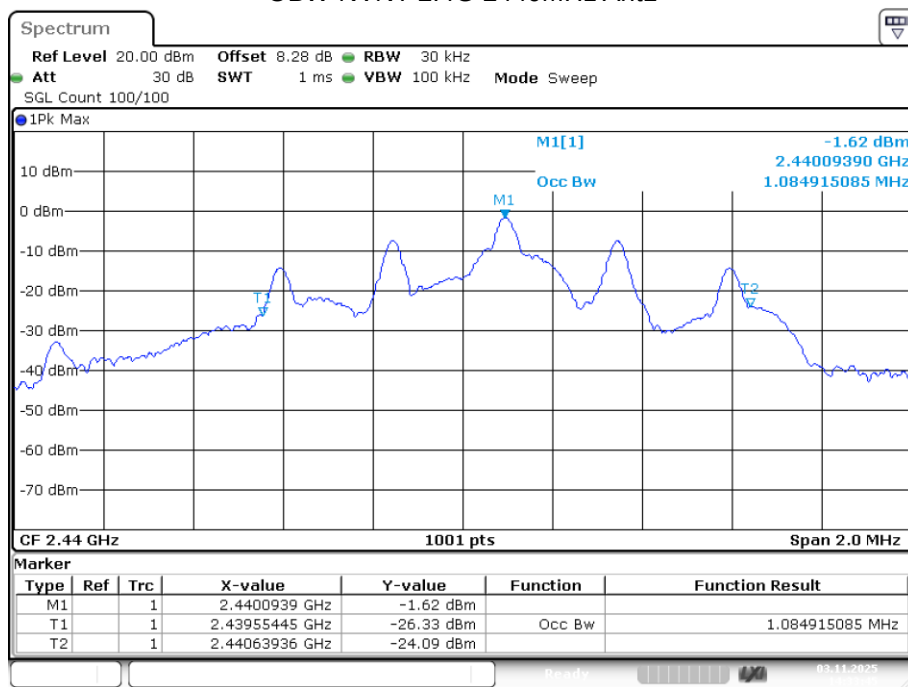
Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	2.4G	2405	Ant1	1.081
NVNT	2.4G	2440	Ant1	1.085
NVNT	2.4G	2475	Ant1	1.087

OBW NVNT 2.4G 2405MHz Ant1



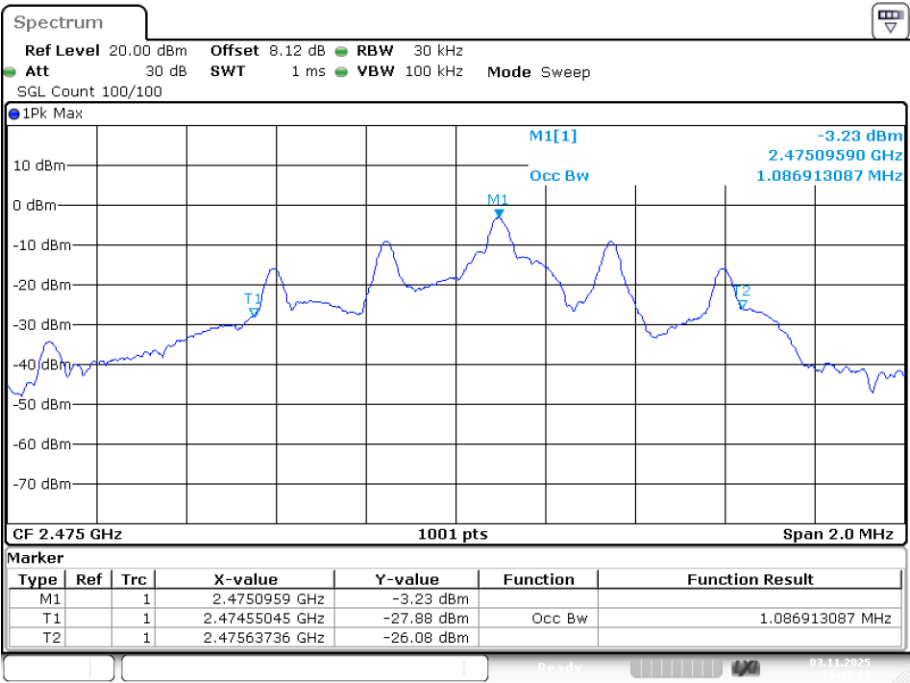
Date: 3.NOV.2025 14:29:58

OBW NVNT 2.4G 2440MHz Ant1



Date: 3.NOV.2025 14:33:44

OBW NVNT 2.4G 2475MHz Ant1



Date: 3.NOV.2025 14:49:08

8. BAND EDGE CHECK

8.1. Test limits

Please refer section 15.247.

8.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

8.2.1 Put the EUT on a 1.5m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

8.2.2 Check the spurious emissions out of band.

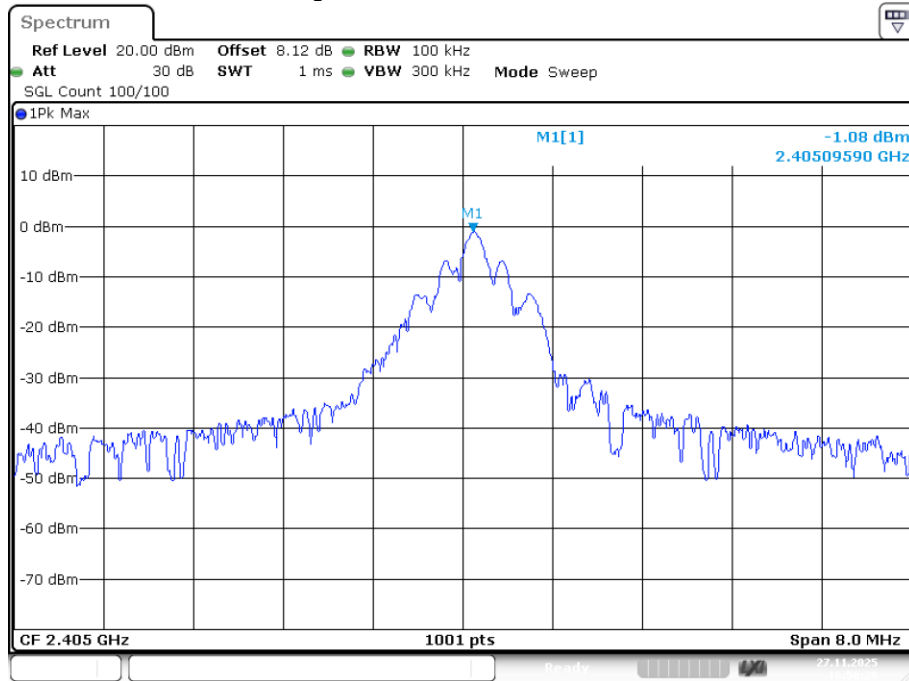
8.2.3 RBW 1MHz , VBW 3MHz , peak detector for peak value , RBW 1MHz , VBW 3MHz , RMS detector for AV value.

8.3. Test Setup

Same as 3.3 above 1GHz.

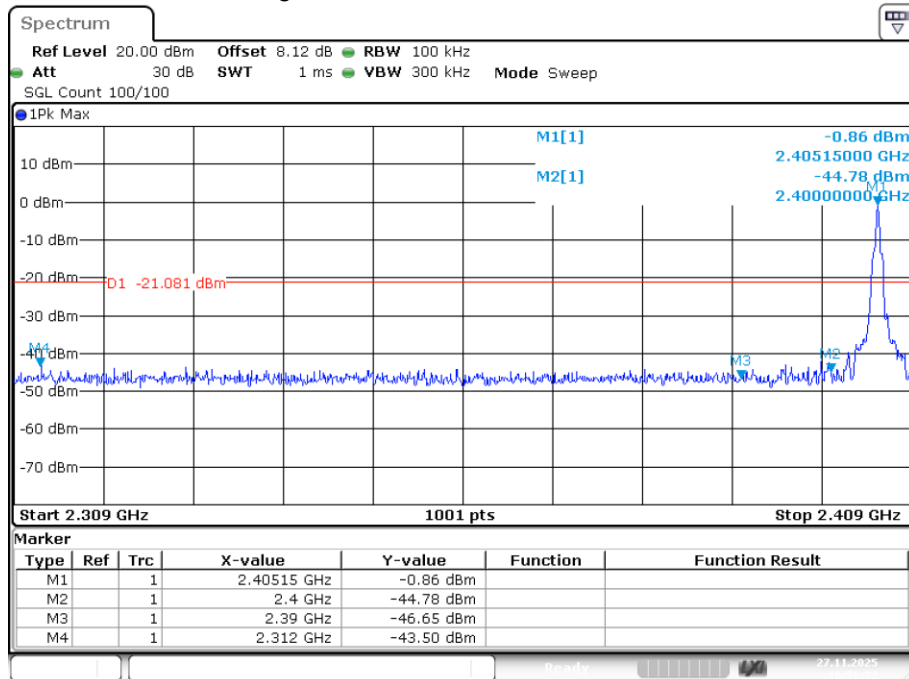
8.4. Test Results

Band Edge NVNT 2.4G 2405MHz Ant1 Ref



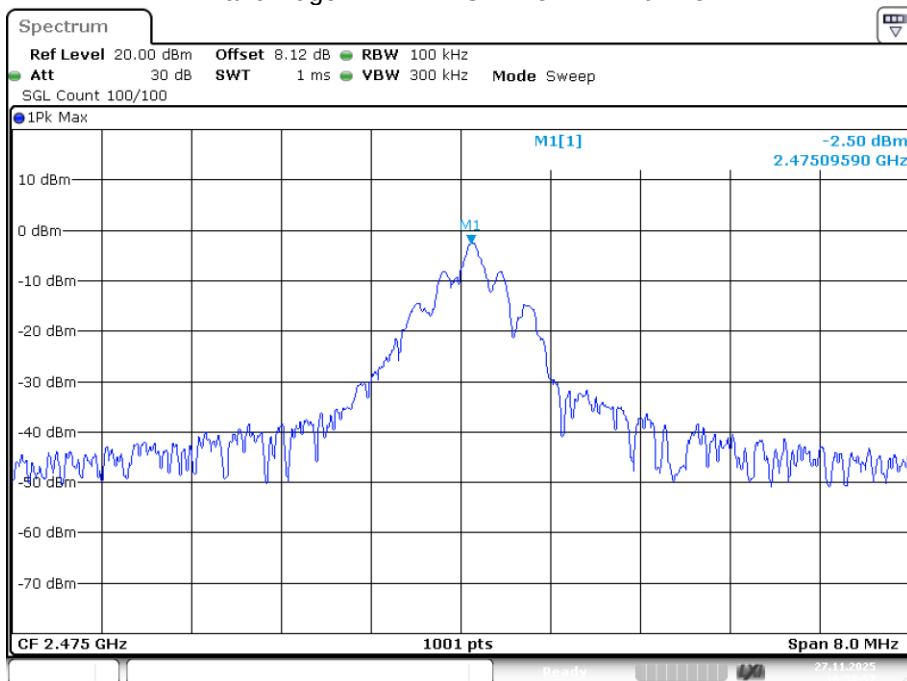
Date: 27.NOV.2025 16:56:29

Band Edge NVNT 2.4G 2405MHz Ant1 Emission



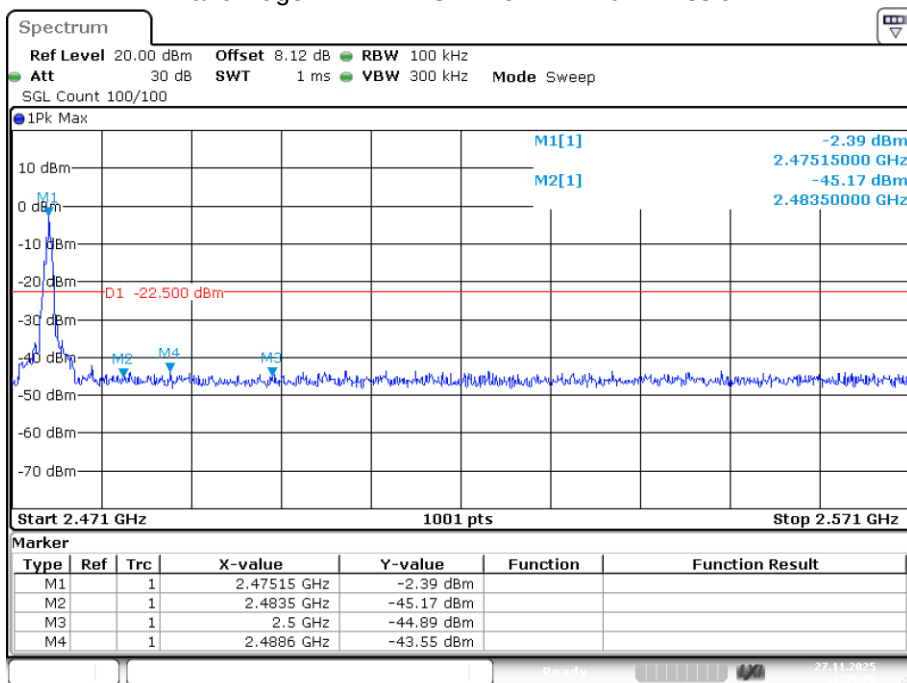
Date: 27.NOV.2025 16:56:33

Band Edge NVNT 2.4G 2475MHz Ant1 Ref



Date: 27.NOV.2025 16:58:57

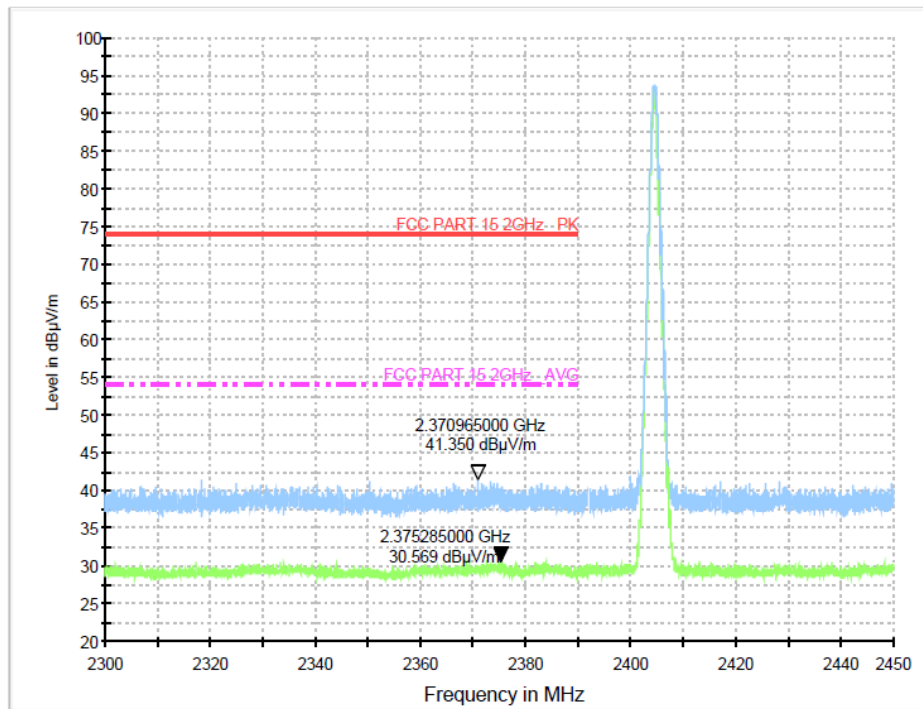
Band Edge NVNT 2.4G 2475MHz Ant1 Emission



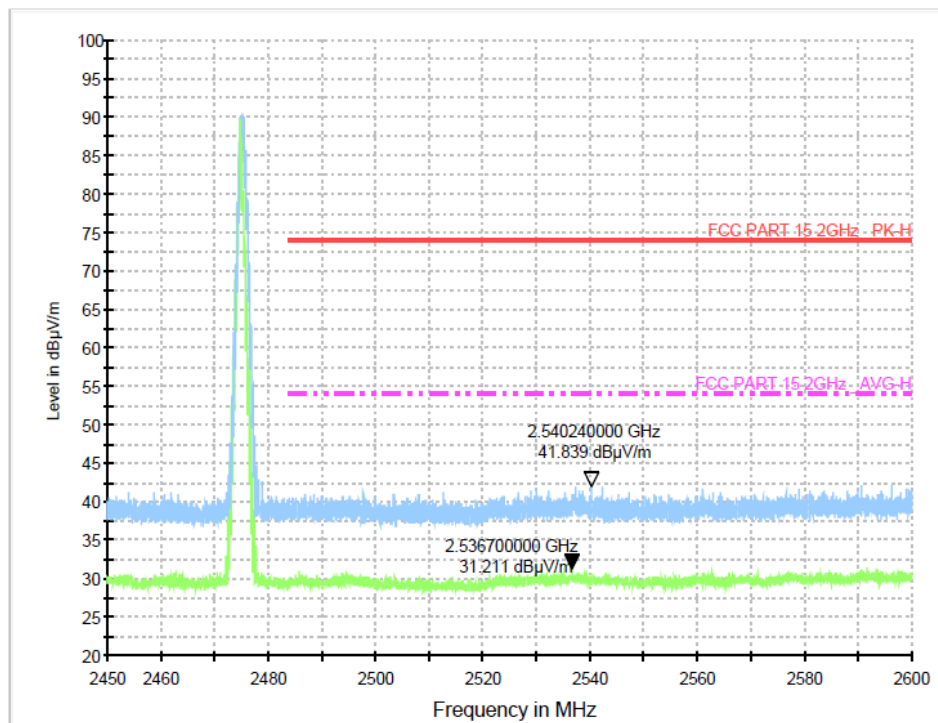
Date: 27.NOV.2025 16:59:01

GFSK Mode:

Test channel: Lowest channel



Test channel: Highest channel



9. ANTENNA REQUIREMENT

9.1. Standard Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

9.2. Antenna Connected Construction

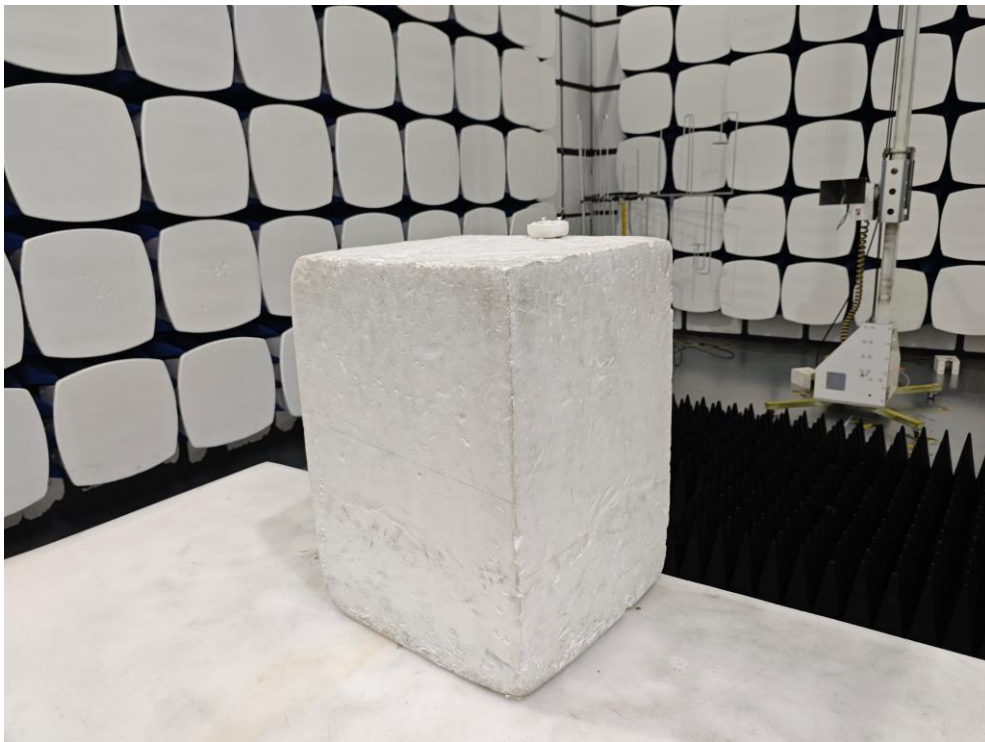
The antenna is Internal antenna and no consideration of replacement. Please see EUT photo for details.

9.3. Results

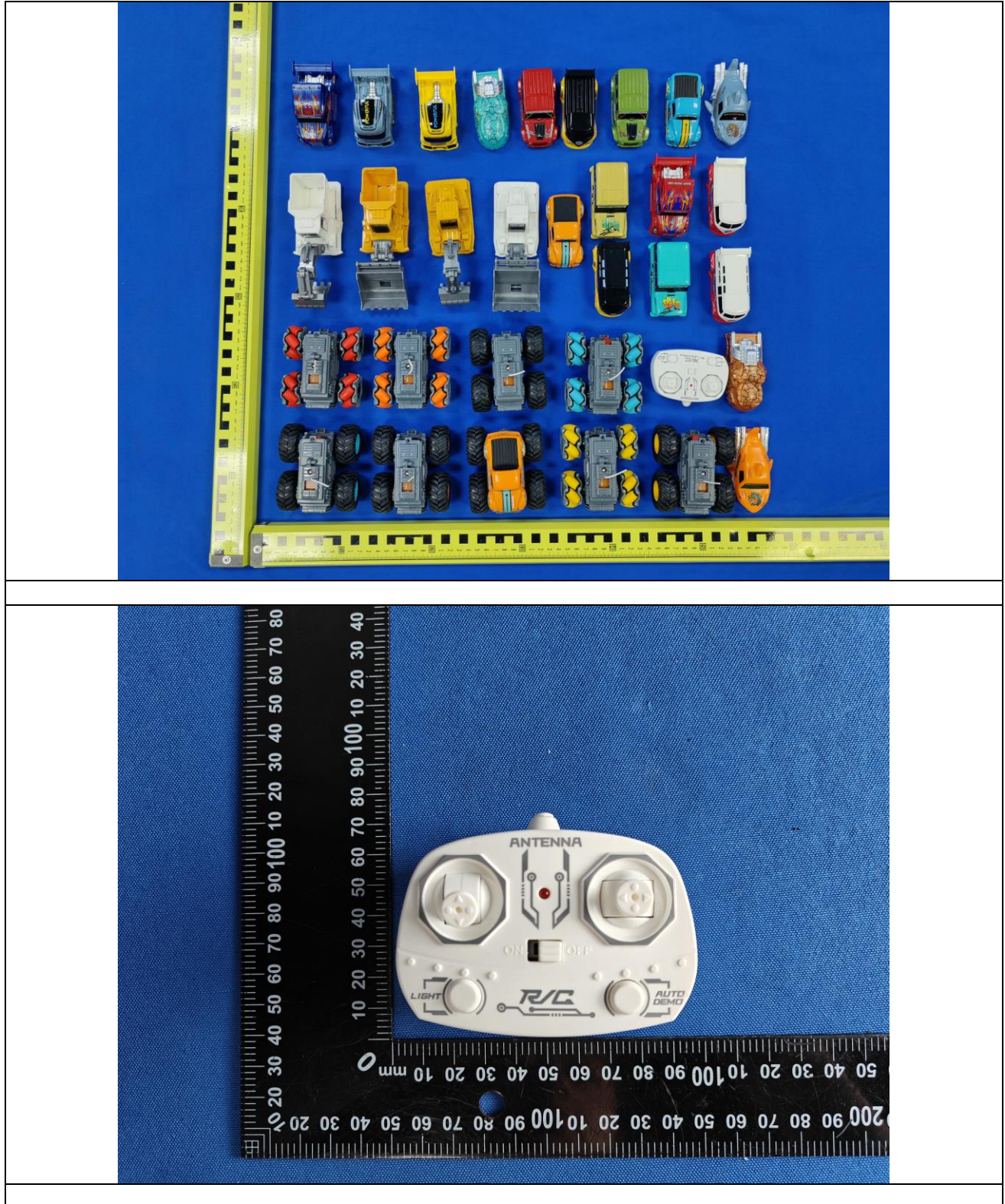
The EUT antenna is Internal Antenna. It comply with the standard requirement.

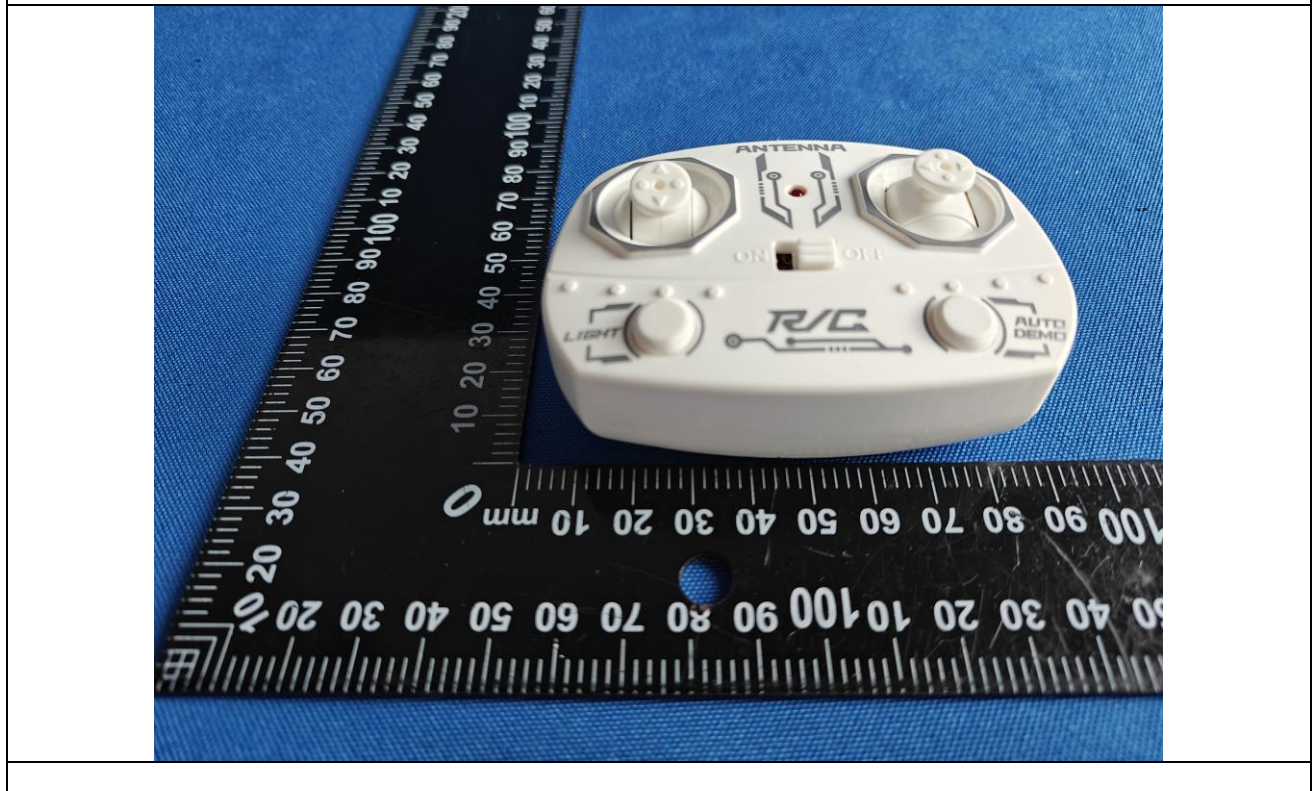
10. Test Setup Photo

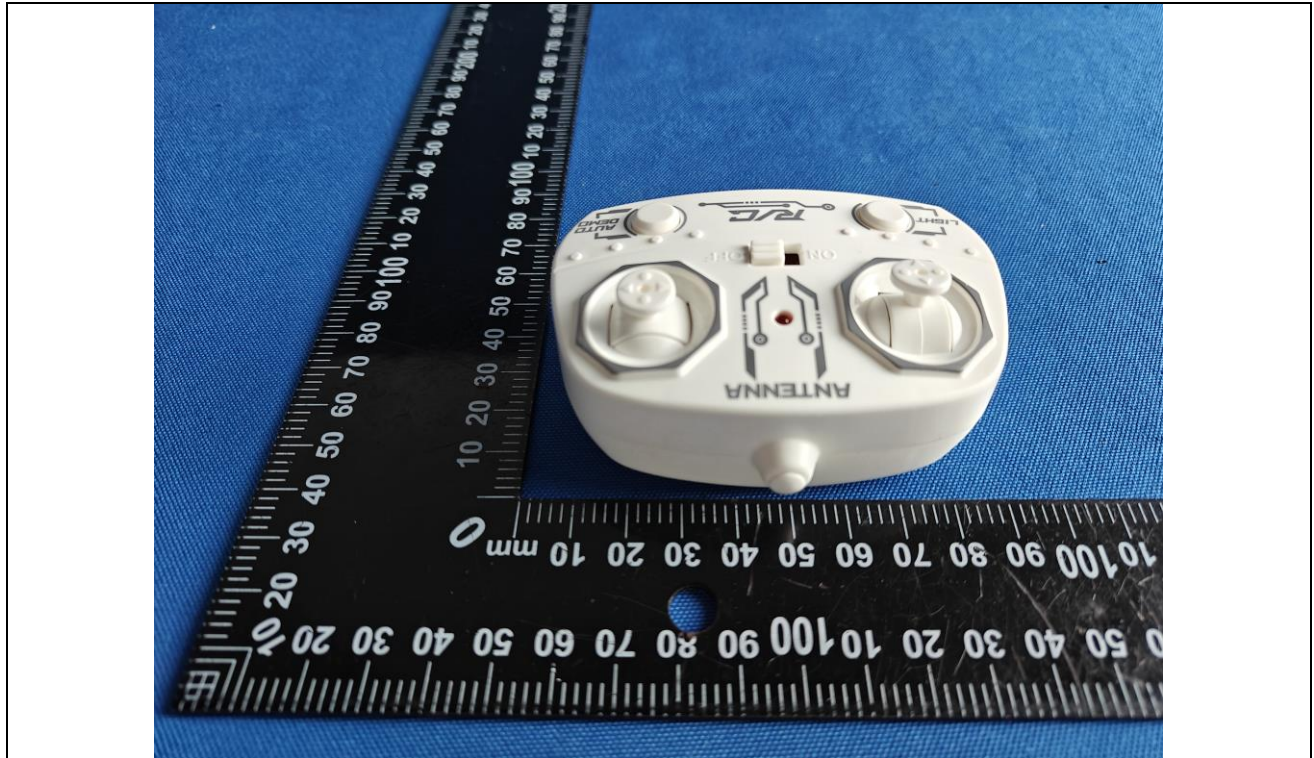
10.1. Photos of Radiated emission

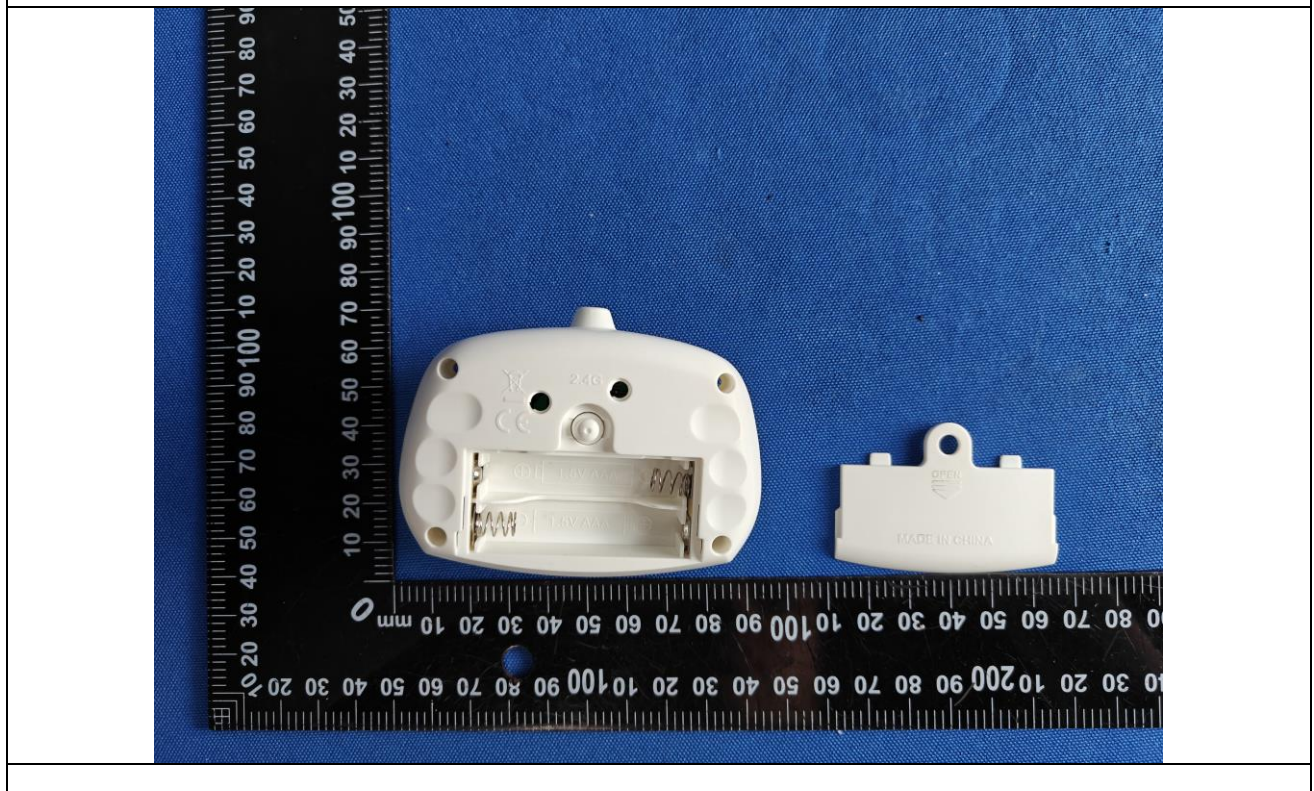


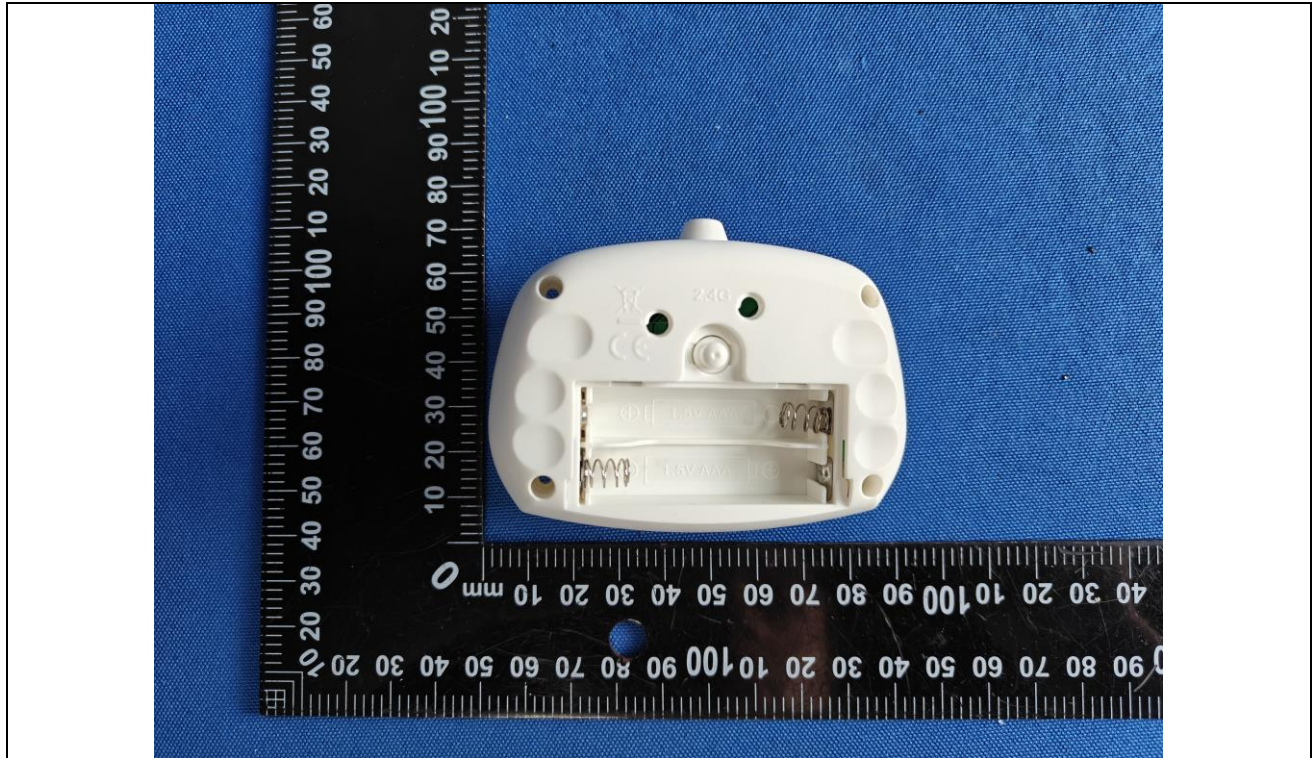
11. Photos of EUT

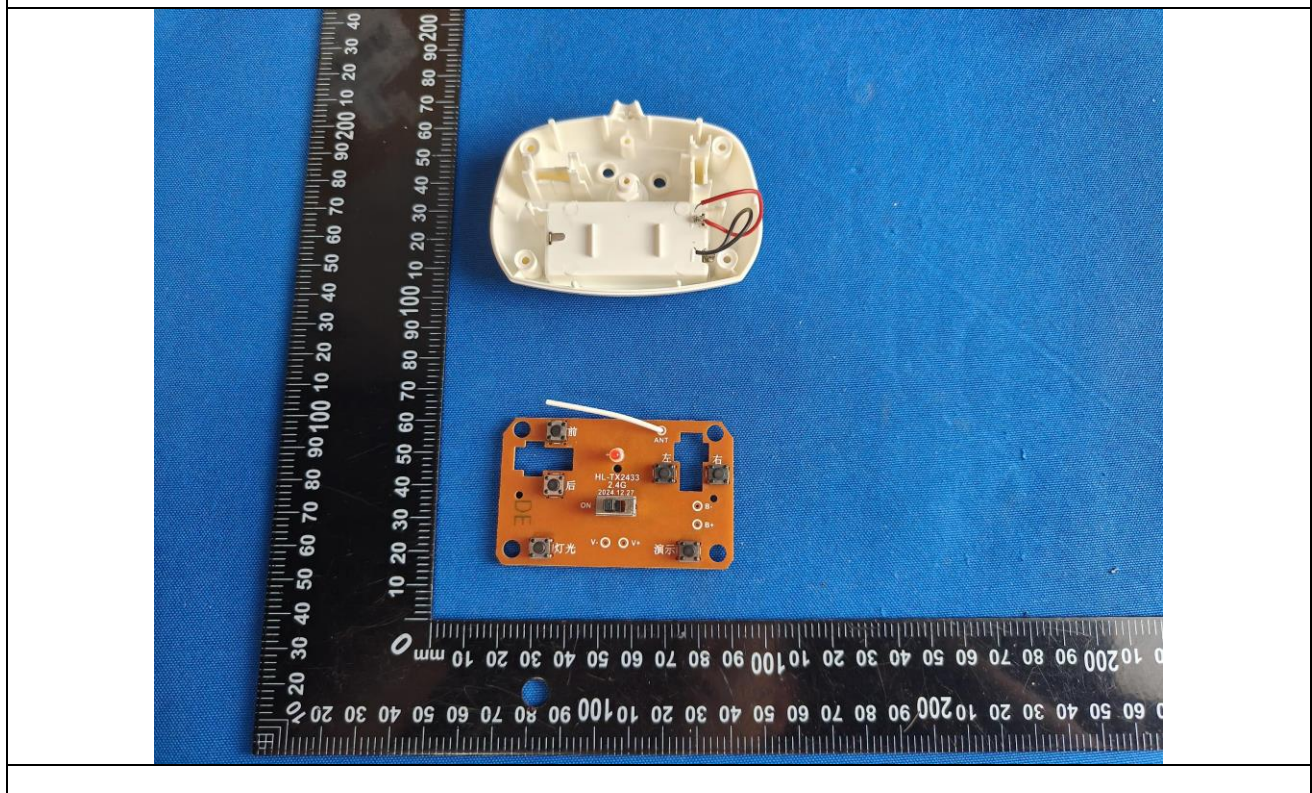
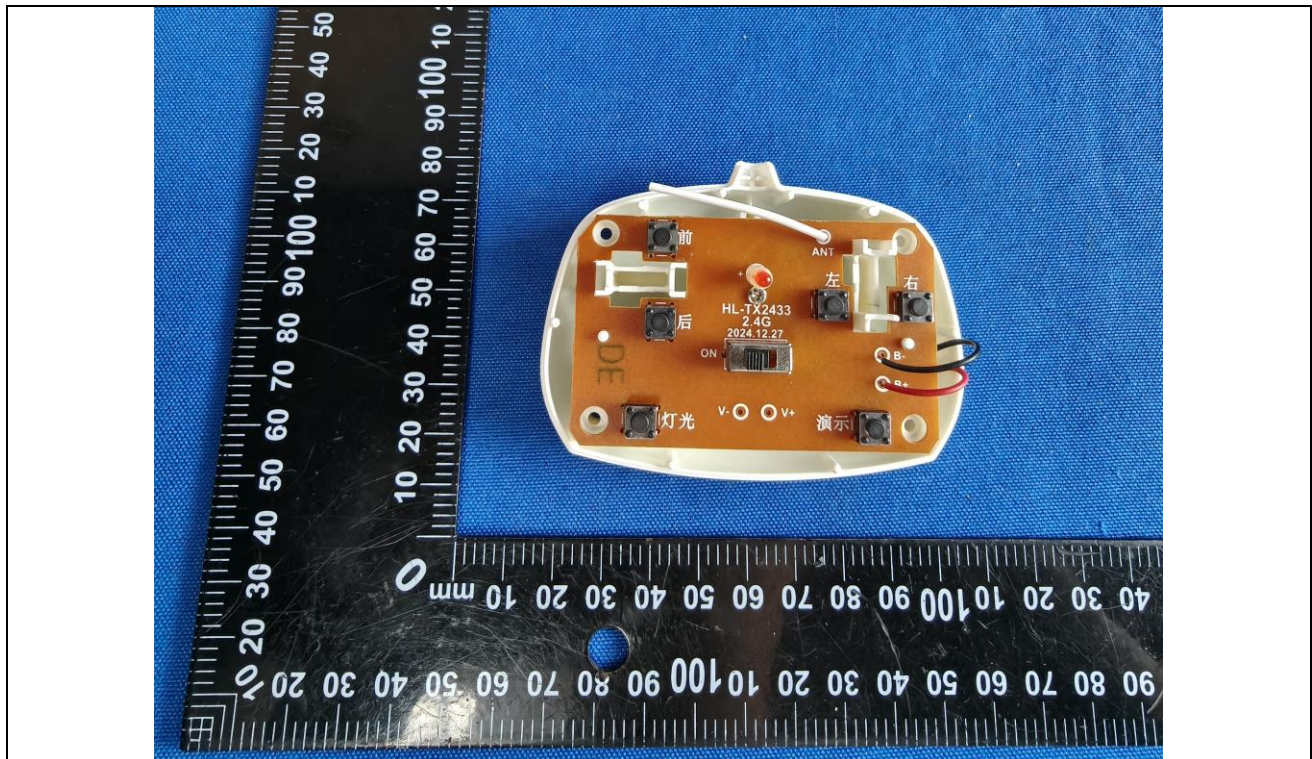


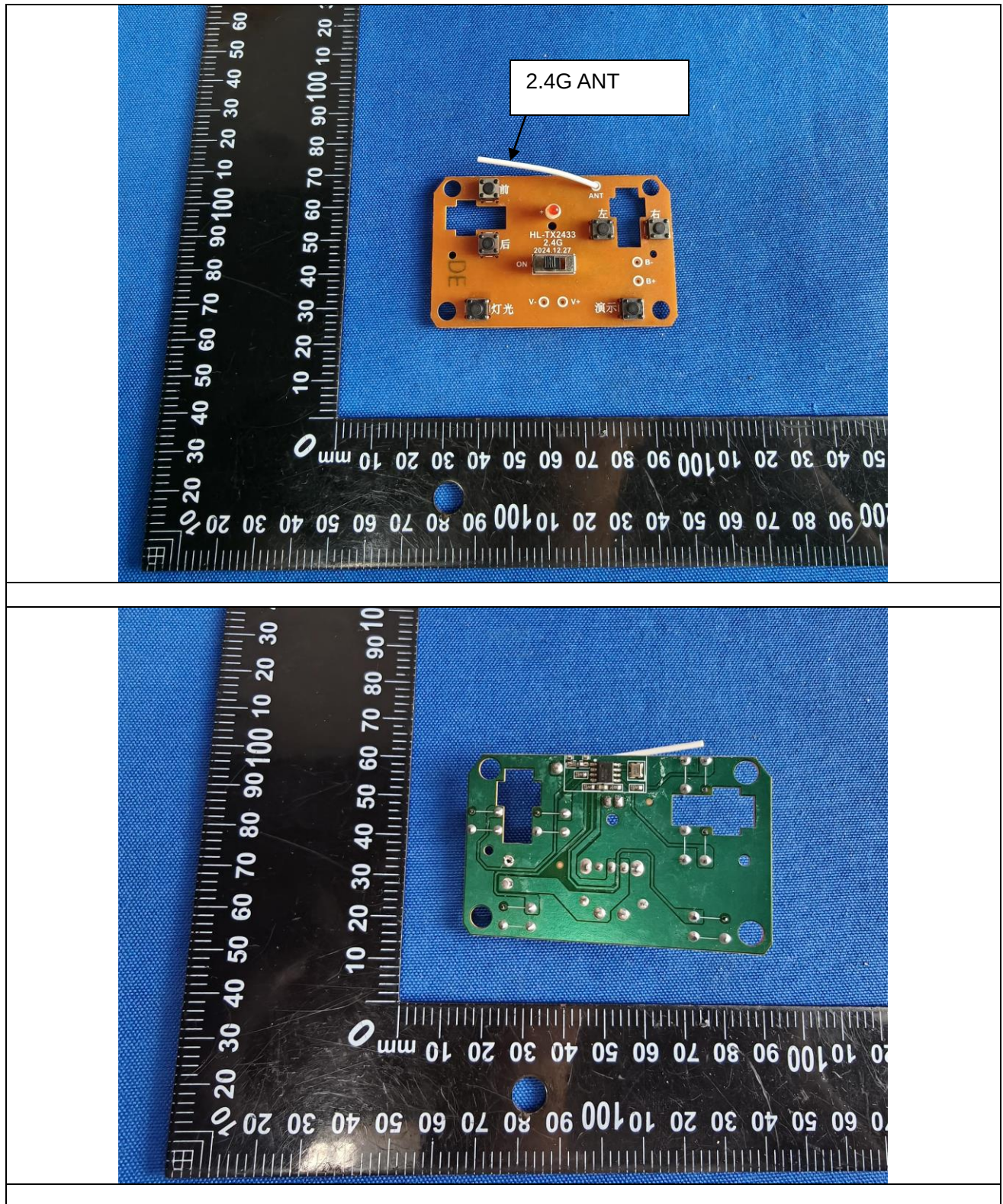


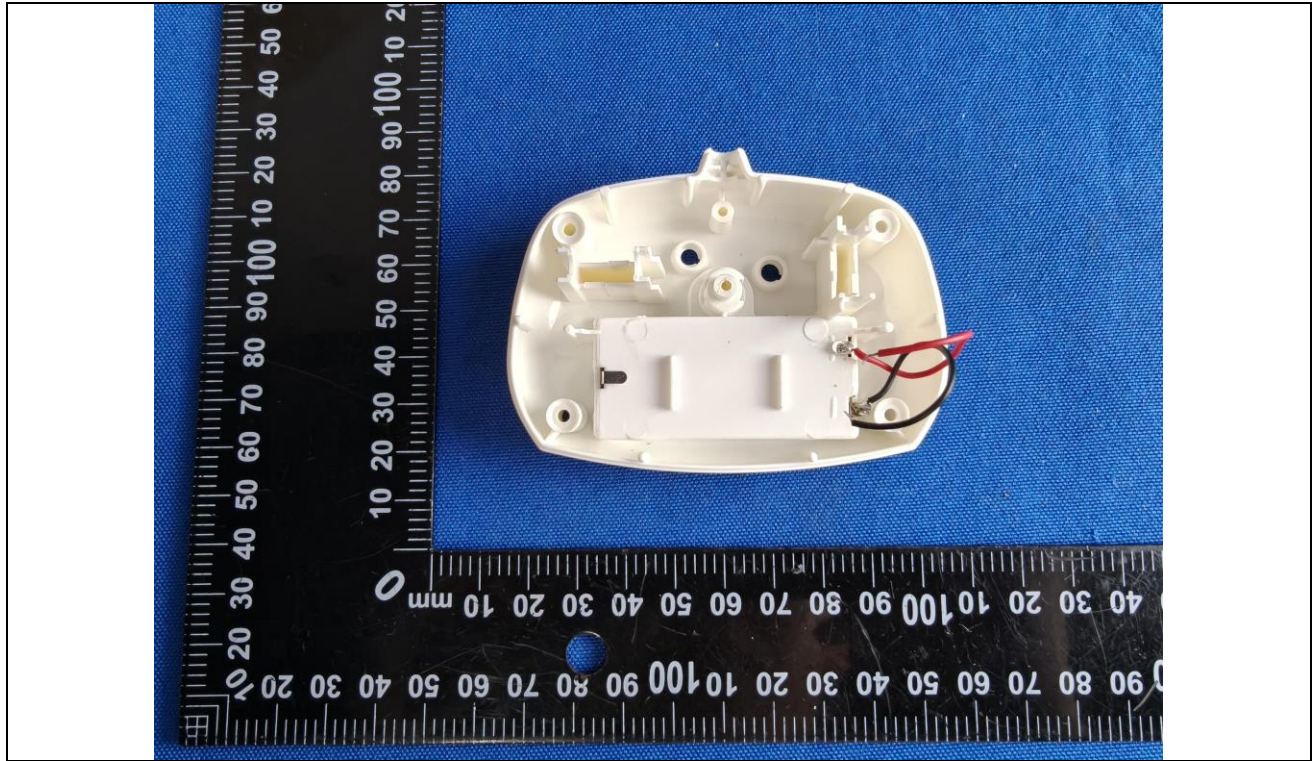












12. Model list

YD898-MT6525	YD898-MJ6525	YD898-MJ6526
YD898-MJ6527	YD898-MJ6528	YD898-MJ6529
YD898-MJ6530	YD898-MJ6531	YD898-MJ6532
YD898-MJ6533	YD898-MJ6534	YD898-MJ6535
YD898-MJ6536	YD898-MJ6537	YD898-MJ6525S
YD898-MJ6526S	YD898-MJ6527S	YD898-MJ6528S
YD898-MJ6529S	YD898-MJ6530S	YD898-MJ6531S
YD898-MJ6532S	YD898-MJ6533S	YD898-MJ6534S
YD898-MJ6535S	YD898-MJ6536S	YD898-MJ6537S
YD898-MT6526	YD898-MT6527	YD898-MT6528
YD898-MT6529	YD898-MT6530	YD898-MT6531
YD898-MT6532	YD898-MT6533	YD898-MT6534
YD898-MT6535	YD898-MT6536	YD898-MT6537
YD898-MT6525S	YD898-MT6526S	YD898-MT6527S
YD898-MT6528S	YD898-MT6529S	YD898-MT6530S
YD898-MT6531S	YD898-MT6532S	YD898-MT6533S
YD898-MT6534S	YD898-MT6535S	YD898-MT6536S
YD898-MT6537S		

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