



FCC Test Report

**Test Report
On Behalf of
Chenghai Renda Plastic Toys CO.,LTD
For
radio-controlled car**

Model No.: MT1587, RD129-1, RD089A, RD101, RD102, RD103, RD105, RD110, RD112, RD113, RD115, RD116, RD117, RD135, RD136, RD138, RD139, RD150, RD151, RD159, RD189, RD313, RD579, RD620, RD631, RD632, RD639, RD755, RD860, RD930

FCC ID: OQJRD129

**Prepared For: Chenghai Renda Plastic Toys CO.,LTD
Lianshang Industry Area, Chenghai Shantou, Guangdong, China**

**Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.
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**Date of Test: June 26, 2025 ~ July 09, 2025
Date of Report: July 09, 2025
Report Number: HK2506263460-E**

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**** Modified History ****

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	July 09, 2025	Jason Zhou

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1. Test Summary

1.1 Test Procedures and Results

DESCRIPTION OF TEST	SECTION NUMBER	RESULT
AC CONDUCTED EMISSIONS TEST	15.207	N/A
RADIATED EMISSION TEST	15.249(a)/15.209	COMPLIANT
BAND EDGE	15.249(d)/15.205	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	15.215(c)	COMPLIANT
ANTENNA REQUIREMENT	15.203	COMPLIANT

1.2 Information of the Test Laboratory

Shenzhen HUAK Testing Technology Co., Ltd.

Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01.

FCC Designation Number is CN1229.

Canada IC CAB identifier is CN0045.

CNAS Registration Number is L9589.

1.3 Measurement Uncertainty

Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.71dB, k=2

Radiated emission expanded uncertainty(9kHz-30MHz) = 3.90dB, k=2

Radiated emission expanded uncertainty(30MHz-1000MHz) = 3.90dB, k=2

Radiated emission expanded uncertainty(Above 1GHz) = 4.28dB, k=2

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2. General Information

2.1 General Description of EUT

Equipment:	radio-controlled car
Model Name:	MT1587
Series Model(s):	RD129-1, RD089A, RD101, RD102, RD103, RD105, RD110, RD112, RD113, RD115, RD116, RD117, RD135, RD136, RD138, RD139, RD150, RD151, RD159, RD189, RD313, RD579, RD620, RD631, RD632, RD639, RD755, RD860, RD930
Model Difference:	All model's the function, software and electric circuit are the same, only the product accessories, colors and model named different. Test sample model: MT1587.
FCC ID:	OQJRD129
Antenna Type:	Internal antenna
Antenna Gain:	1.02dBi
Operation Frequency:	2405-2475MHz
Number of Channels:	71CH
Modulation Type:	GFSK
Power Source:	DC3V from Battery
Power Rating:	DC3V from Battery
Note:	
1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.	
2. Antenna gain Refer to the antenna specifications.	
3. The cable loss data is obtained from the supplier.	
4. The test results in the report only apply to the tested sample.	

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2.2 Carrier Frequency of Channels

Channel	Frequency (MHz)						
1	2405	19	2423	37	2441	55	2459
2	2406	20	2424	38	2442	56	2460
3	2407	21	2425	39	2443	57	2461
4	2408	22	2426	40	2444	58	2462
5	2409	23	2427	41	2445	59	2463
6	2410	24	2428	42	2446	60	2464
7	2411	25	2429	43	2447	61	2465
8	2412	26	2430	44	2448	62	2466
9	2413	27	2431	45	2449	63	2467
10	2414	28	2432	46	2450	64	2468
11	2415	29	2433	47	2451	65	2469
12	2416	30	2434	48	2452	66	2470
13	2417	31	2435	49	2453	67	2471
14	2418	32	2436	50	2454	68	2472
15	2419	33	2437	51	2455	69	2473
16	2420	34	2438	52	2456	70	2474
17	2421	35	2439	53	2457	71	2475
18	2422	36	2440	54	2458		

2.3 Operation of EUT during Testing

Operating Mode

The mode is used: **Transmitting mode**

Low Channel: 2405MHz

Middle Channel: 2440MHz

High Channel: 2475MHz

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2.5 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments

3. AC Conducted Emissions Test

3.1 AC Conducted Power Line Emission Limit

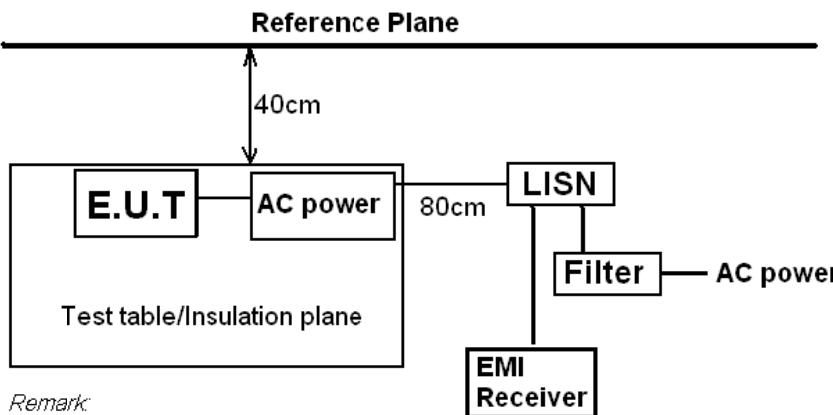
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following.

Frequency (MHz)	Maximum RF Line Voltage (dB μ V)			
	CLASS A		CLASS B	
	Q.P.	Ave.	Q.P.	Ave.
0.15 - 0.50	79	66	66-56*	56-46*
0.50 - 5.00	73	60	56	46
5.00 - 30.0	73	60	60	50

* Decreasing linearly with the logarithm of the frequency.

For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

3.2 Test Setup



Remark

E.U.T: Equipment Under Test

LISN: Line Impedance Stabilization Network

Test table height=0.8m

3.3 Test Procedure

1. The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10.
2. Support equipment, if needed, was placed as per ANSI C63.10.
3. All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.
4. If a EUT received DC power from the USB Port of Notebook PC, the PC's adapter received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
5. All support equipments received AC power from a second LISN, if any.
6. The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
7. Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.

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3.4 Test Result

Not applicable.

Note: EUT power supply by Battery Powered, so this test item not applicable.



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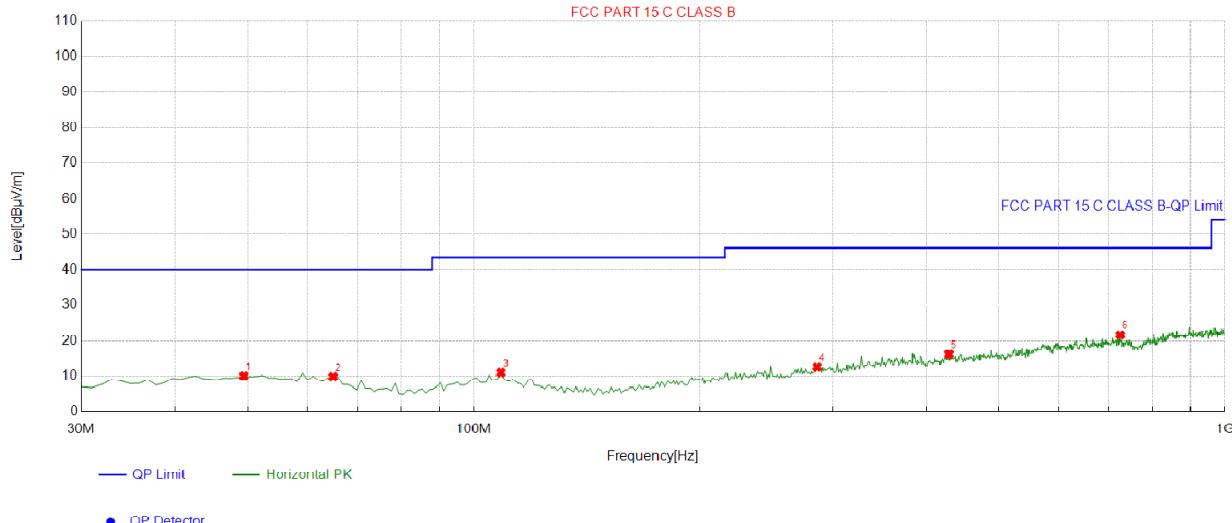
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Below 1GHz Test Results:

Antenna polarity: H



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	49.4194	-13.14	23.09	9.95	40.00	30.05	100	256	Horizontal
2	64.9550	-15.33	25.08	9.75	40.00	30.25	100	358	Horizontal
3	108.6486	-14.02	24.98	10.96	43.50	32.54	100	358	Horizontal
4	286.3363	-12.36	24.89	12.53	46.00	33.47	100	67	Horizontal
5	429.0691	-8.75	24.94	16.19	46.00	29.81	100	170	Horizontal
6	725.2152	-4.04	25.74	21.70	46.00	24.30	100	279	Horizontal

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;



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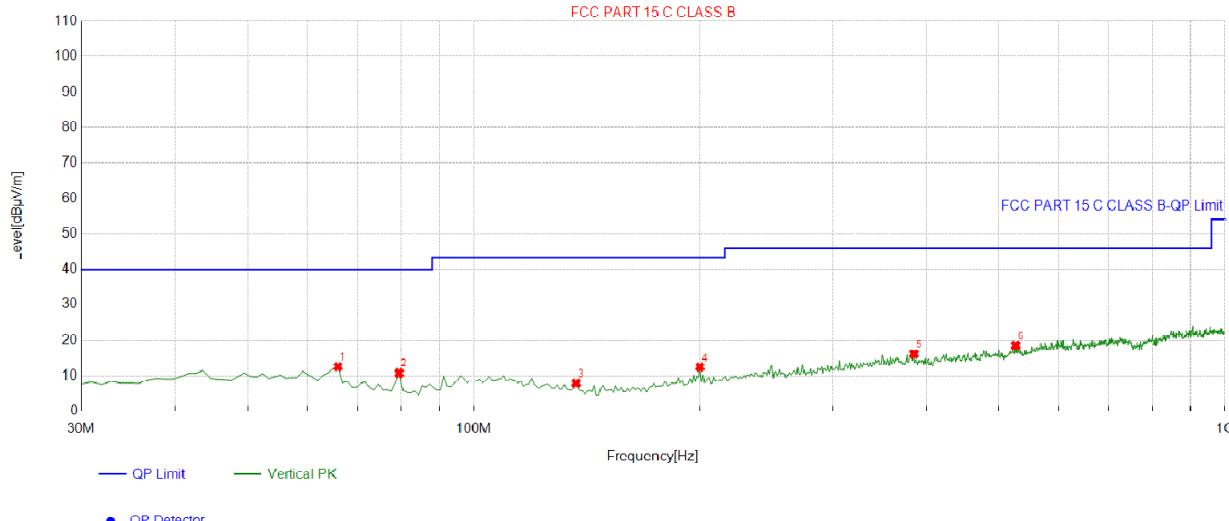
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Antenna polarity: V



Suspected List

NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	65.9259	-15.95	28.47	12.52	40.00	27.48	100	355	Vertical
2	79.5195	-18.01	28.76	10.75	40.00	29.25	100	191	Vertical
3	136.8068	-17.67	25.69	8.02	43.50	35.48	100	20	Vertical
4	199.9199	-15.09	27.52	12.43	43.50	31.07	100	94	Vertical
5	385.3754	-9.07	25.18	16.11	46.00	29.89	100	88	Vertical
6	526.1662	-7.00	25.52	18.52	46.00	27.48	100	306	Vertical

Remark: Factor = Cable loss + Antenna factor + Attenuator – Preamplifier; Level = Reading + Factor; Margin = Limit – Level;

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
--	--	--
--	--	--
--	--	--
--	--	--

Note: 1. Emission Level=Reading+ Cable loss+ Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.

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Above 1 GHz Test Results

CH Low (2405MHz)

Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2405	101.19	-5.84	95.35	114	18.65	peak
2405	85.53	-5.84	79.69	94	14.31	AVG
4810	53.66	-3.64	50.02	74	23.98	peak
4810	41.71	-3.64	38.07	54	15.93	AVG
7215	51.42	-0.95	50.47	74	23.53	peak
7215	40.08	-0.95	39.13	54	14.87	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor;
Margin = Limit - Level.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2405	102.41	-5.84	96.57	114	17.43	peak
2405	87.52	-5.84	81.68	94	12.32	AVG
4810	53.99	-3.64	50.35	74	23.65	peak
4810	42.87	-3.64	39.23	54	14.77	AVG
7215	52.61	-0.95	51.66	74	22.34	peak
7215	40.34	-0.95	39.39	54	14.61	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor;
Margin = Limit - Level.

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CH Middle (2440MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2440	105.58	-5.71	99.87	114	14.13	peak
2440	76.24	-5.71	70.53	94	23.47	AVG
4880	54.09	-3.51	50.58	74	23.42	peak
4880	43.49	-3.51	39.98	54	14.02	AVG
7320	52.28	-0.82	51.46	74	22.54	peak
7320	44.15	-0.82	43.33	54	10.67	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2440	103.55	-5.71	97.84	114	16.16	peak
2440	78.42	-5.71	72.71	94	21.29	AVG
4880	54.96	-3.51	51.45	74	22.55	peak
4880	43.78	-3.51	40.27	54	13.73	AVG
7320	53.91	-0.82	53.09	74	20.91	peak
7320	43.24	-0.82	42.42	54	11.58	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.

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CH High (2475MHz)

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Horizontal:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2475	103.08	-5.65	97.43	114	16.57	peak
2475	82.41	-5.65	76.76	94	17.24	AVG
4950	54.57	-3.43	51.14	74	22.86	peak
4950	43.28	-3.43	39.85	54	14.15	AVG
7425	53.34	-0.75	52.59	74	21.41	peak
7425	40.66	-0.75	39.91	54	14.09	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor;
Margin = Limit - Level.

Vertical:

Frequency (MHz)	Meter Reading (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2475	103.51	-5.65	97.86	114	16.14	peak
2475	82.27	-5.65	76.62	94	17.38	AVG
4950	53.92	-3.43	50.49	74	23.51	peak
4950	45.81	-3.43	42.38	54	11.62	AVG
7425	53.49	-0.75	52.74	74	21.26	peak
7425	41.28	-0.75	40.53	54	13.47	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor;
Margin = Limit - Level.

Remark :

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not record in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for peak measurement with peak detector at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 10Hz for Average measurement with peak detection at frequency above 1GHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dB μ V/m(PK Value) < 93.98(AV Limit), at harmonic 53.20 dB μ V/m(PK Value) < 54 dB μ V/m(AV Limit), the Average Detected not need to completed.
- (7) All modes of operation were investigated and the worst-case emissions are reported.

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5. Band Edge

5.1 Limits

FCC PART 15.249(d) 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 to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

5.2 Test Procedure

The band edge compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW to 1MHz and VBM to 3MHz to measure the peak field strength and set RBW to 1MHz and VBW to 10Hz to measure the average radiated field strength. The conducted RF band edge was measured by using a spectrum analyzer. Set span wide enough to capture the highest in-band emission and the emission at the band edge. Set RBW to 1MHz and VBW to 3MHz, to measure the conducted peak band edge.

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PASS**5.3 Test Result**

Radiated Band Edge Test:

Operation Mode: TX CH Low (2405MHz)

Horizontal (Worst case):

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310	54.98	-5.81	49.17	74	24.83	peak
2310	/	-5.81	/	54	/	AVG
2390	54.22	-5.84	48.38	74	25.62	peak
2390	/	-5.84	/	54	/	AVG
2400	55.07	-5.84	49.23	74	24.77	peak
2400	/	-5.84	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2310	55.62	-5.81	49.81	74	24.19	peak
2310	/	-5.81	/	54	/	AVG
2390	54.98	-5.84	49.14	74	24.86	peak
2390	/	-5.84	/	54	/	AVG
2400	53.92	-5.84	48.08	74	25.92	peak
2400	/	-5.84	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.



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Operation Mode: TX CH High (2475MHz)

Horizontal (Worst case):

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dB μ V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)	
2483.50	55.02	-5.65	49.37	74	24.63	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.88	-5.65	49.23	74	24.77	peak
2500.00	/	-5.65	/	54	/	AVG

Remark: Factor = Cable loss + Antenna factor + Attenuator - Preamplifier; Level = Reading + Factor; Margin = Limit - Level.

Vertical:

Frequency (MHz)	Reading Result (dB μ V)	Factor (dB)	Emission Level (dB μ V/m)	Limits (dB μ V/m)	Margin (dB)	Detector Type
2483.50	54.29	-5.65	48.64	74	25.36	peak
2483.50	/	-5.65	/	54	/	AVG
2500.00	54.36	-5.65	48.71	74	25.29	peak
2500.00	/	-5.65	/	54	/	AVG

Remark:

1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
2. In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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6. Occupied Bandwidth Measurement

6.1 Test Setup

Same as Radiated Emission Measurement

6.2 Test Procedure

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as normal operation.
3. Based on ANSI C63.10 section 6.9.2: RBW= 20KHz. VBW= 62KHz, Span= 3MHz.
4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

6.4 Test Result

PASS

Frequency HUAK TESTING	20dB Bandwidth HUAK TESTING (MHz)	Result
2405 MHz	1.050	PASS
2440 MHz	1.051	PASS
2475 MHz	1.051	PASS



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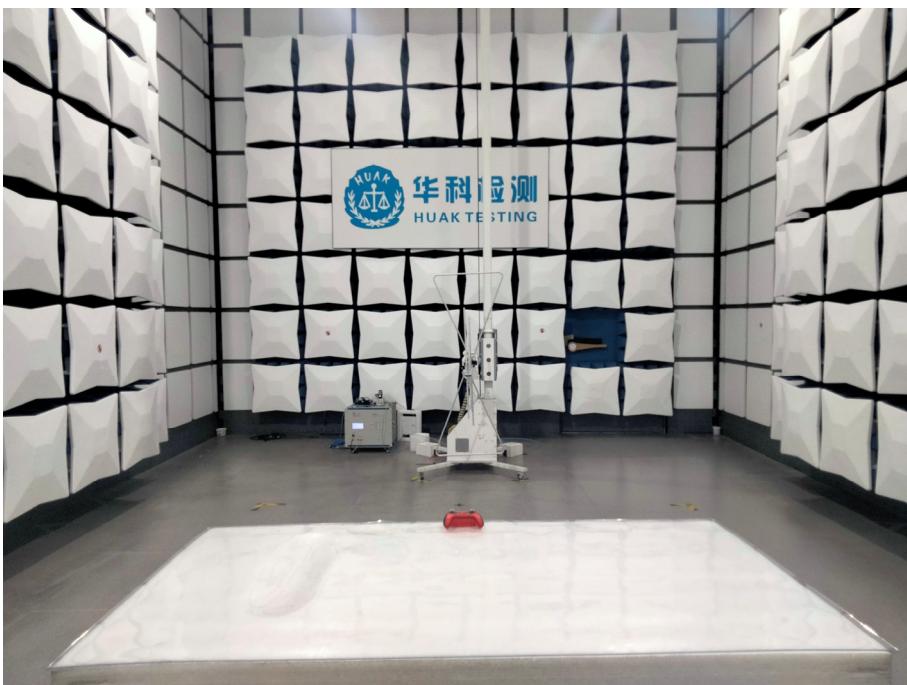
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8. Photographs of Test

Radiated Emission



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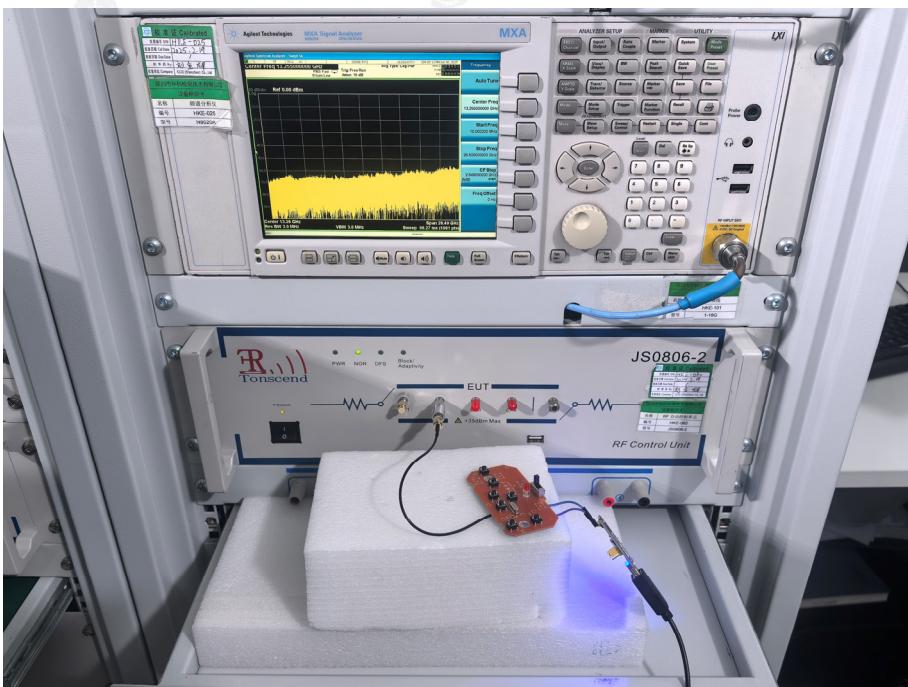
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HUAK TESTING

RF Conducted Emission



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9. Photos of the EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----