

FCC Test Report

Test Report On Behalf of Shantou Chenghai Bozhisu Toy Factory

For

RC car

Model No.: 553-01, 553-02, 553-03, 553-04, 553-05, 553-06, 553-07, 553-08, 553-09, 553-10, 553-11, 553-12, 553-13, 553-14, 553-15, 553-16, 553-17, 553-18, 553-19, 553-20, 33652, 33653, S915, S916, S805, S806, S807, S808, S809, S817

FCC ID: 2BQXM-553-01

Prepared For: Shantou Chenghai Bozhisu Toy Factory

No. 1 Yangzhong North Wuheng, Qianxi Village, Lianxia Town, Chenghai

District, Shantou City, China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,

Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Date of Test:

Jun. 25, 2025 ~ Jul. 10, 2025

Date of Report:

Jul. 10, 2025

Report Number:

HK2506253385-E



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Test Result Certification

		rest result ocitinoation				
	Applicant's Name:	Shantou Chenghai Bozhisu Toy Factory				
	Address:	No. 1 Yangzhong North Wuheng, Qianxi Chenghai District, Shantou City, China	Village, Lianxia Town,			
	Manufacturer's Name:	Shantou Chenghai Bozhisu Toy Factory				
	Address:	No. 1 Yangzhong North Wuheng, Qianxi Chenghai District, Shantou City, China	Village, Lianxia Town,			
	Product Description					
	Trade Mark:	N/A				
	Product Name:	RC car				
	Model and/or Type Reference:	553-01, 553-02, 553-03, 553-04, 553-05, 553-09, 553-10, 553-11, 553-12, 553-13, 553-17, 553-18, 553-19, 553-20, 33652, 3806, S807, S808, S809, S817	553-14, 553-15, 553-16,			
	HUAK TESTING	FCC Rules and Regulations Part 15 Sul	opart C Section 15.249			
	Standards	ANSI C63.10: 2020				
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	Date of Test	HUAK TESTING				
	Date (s) of Performance of Tests	Jun. 25, 2025 ~ Jul. 10, 2025				

Jul. 10, 2025

Pass

Testing Engineer

Date of Issue....:

Test Result:

Len lian

Len Liad

Technical Manager

Sluer Wor

Sliver Wan

Authorized Signatory

Jason Zhou



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** Modified History **

Revision	Description	Issued Data	Remark		
Revision 1.0	Initial Test Report Release	Jul. 10, 2025	Jason Zhou		
	A100	(514)	HUAK TESTING		
AUA P	(010)	HUAK TESTING			



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

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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		HUAK TESTING
Conducted Emission Expanded Uncertainty	=	2.71dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	=	3.90dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	ı	3.90dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	UAKTES	4.28dB, k=2



2. General Information

2.1 General Description of EUT

Equipment:	RC car		
Model Name:	553-01	HUAK TESTING	HUAK TESTING
Series Model:	553-10, 553-11, 55	53-04, 553-05, 553-06, 5 53-12, 553-13, 553-14, 5 53-20, 33652, 33653, S9 , S817	553-15, 553-16, 553-17,
Model Difference:		ction, software and electoroduct color and model l: 553-01.	
FCC ID:	2BQXM-553-01	HUAK TESTING	
Antenna Type:	Internal Antenna		
Antenna Gain:	0dBi		(d)
Operation Frequency:	2407-2455MHz	TESTING	HUAK TESTING
Number of Channels:	49CH		
Modulation Type:	GFSK	(A)	(ata)
Power Source:	DC3V From Batter	y HUAK TESTING	300ax (2010)
Power Rating:	DC3V From Batter	у	

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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.





2.2 Carrier Frequency of Channels

	AUAA		TITAL	HUAK TESTING	
	HUAK TESTING	Operation Frequ	iency each of chanr	nel	
Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2407MHz	18	2424MHz	35	2441MHz
2	2408MHz	HUAK TESTIN 19	2425MHz	36	2442MHz
3	2409MHz	20	2426MHz	37	2443MHz
4	2410MHz	21	2427MHz	38	2444MHz
5	2411MHz	22	2428MHz	39	2445MHz
6	2412MHz	23	2429MHz	40	2446MHz
7	2413MHz	24	2430MHz	41	2447MHz
8	2414MHz	25	2431MHz	42	2448MHz
9	2415MHz	26	2432MHz	43	2449MHz
10	2416MHz	27	2433MHz	44	2450MHz
11	2417MHz	28	2434MHz	45	2451MHz
12	2418MHz	29	2435MHz	46	2452MHz
13	2419MHz	30	2436MHz	47	2453MHz
14	2420MHz	31	2437MHz	48 48	2454MHz
15 HUAK TESTIM	2421MHz	32	2438MHz	49	2455MHz
16	2422MHz	33	2439MHz		
17	2423MHz	34	2440MHz	HUAK TEST	TING

2.3 Operation of EUT during Testing

Operating Mode

The mode is used: Transmitting mode

Low Channel: 2407MHz Middle Channel: 2431MHz High Channel: 2455MHz



2.4 Description of Test Setup

Operation of EUT during radiation testing:

EUT

Operation of EUT during RF conducted testing:

RF automatic control unit

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. The worst case is X position.



HUAK TESTING

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.

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	AU12	March		AUAK TESTING	
Item	Equipment	Trade Mark	Model/Type No.	Specification	Note
1	RC car	N/A	553-01	N/A	EUT
	(A)		STA TESTING	HUAK TESTING	
NG	HUAKTES ING				
					(4) (4)
		1014		HUAK TESTING	HUAK TESTING
	HUAK TESTING	HUAK TESTING			

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.



2.5 Measurement Instruments List

STING

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Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	L.I.S.N.	R&S	ENV216	HKE-002	2025/02/19	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	2025/02/19	1 Year
3	EMI Test Receiver	R&S	ESR	HKE-005	2025/02/19	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-025	2025/02/19	1 Year
5	Spectrum analyzer	Agilent	N9020A	HKE-117	2025/02/19	1 Year
6	Spectrum analyzer	R&S	FSV3044	HKE-126	2025/02/19	1 Year
7	Preamplifier	EMCI	EMC05184 5S	HKE-006	2025/02/19	1 Year
8	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	2025/02/19	1 Year
9	Preamplifier	A.H. Systems	SAS-574	HKE-182	2025/02/19	1 Year
10	6dB Attenuator	Pasternack	6db	HKE-184	2025/02/19	1 Year
11	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	2025/02/19	1 Year
12	Broadband Schwarzbed		VULB9168	HKE-167	2024/02/21	2 Year
13	Loop Antenna	COM-POWER	AL-130R	HKE-014	2024/02/21	2 Year
14	Horn Antenna	Schwarzbeck	9120D	HKE-013	2024/02/21	2 Year
15	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	1	1
16	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	HUAK TESTY G	1
17	RF Automatic control unit	Tonscend	JS0806-2	HKE-060	2025/02/19	1 Year
18	High pass filter unit	Tonscend	JS0806-F	HKE-055	2025/02/19	1 Year
19	Wireless Communication Test Set	R&S	CMU200	HKE-026	2025/02/19	1 Year
20	Wireless Communication Test Set	R&S	CMW500	HKE-027	2025/02/19	1 Year
21	High-low temperature Guangke chamber		HT-80L	HKE-118	2025/06/09	1 Year
22	Temperature and humidity meter	Boyang	HTC-1	HKE-075	2025/06/09	1 Year
23	RF Test Software	Tonscend	JS1120-3 Version 3.5.39	HKE-083		1
24	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	2025/02/19	1 Year
25	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	1	1



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.

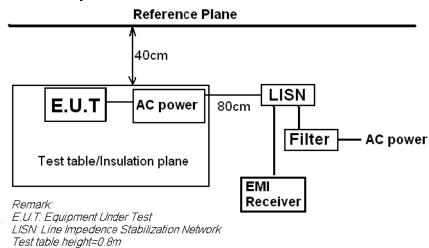
Report No.: HK2506253385-E

	M	Maximum RF Line Voltage (dBμV)						
Frequency (MHz)	CLAS	SS A	CLASS B					
(111112)	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



3.3 Test Procedure

- 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.



4. Radiated Emission Test

4.1 Radiation Limit

For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

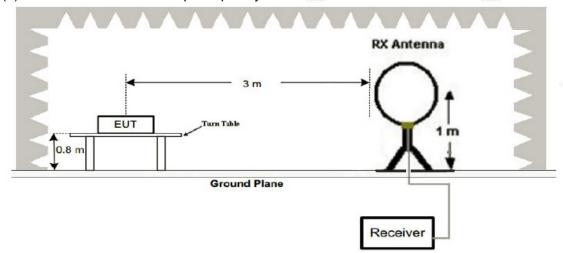
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Frequency	Distance	Radiated	Radiated
(MHz)	(Meters)	(dBµV/m)	(µV/m)
0.009-0.490	300	20log 2400/F (kHz)	2400/F (kHz)
0.490-1.705	30	20log 24000/F (kHz)	24000/F (kHz)
1.705-30	30	20log 30	30
30-88	3	40	100
88-216	3	43.5	150
216-960 HUACTEST	м9 3	46	200
Above 960	3	54	500

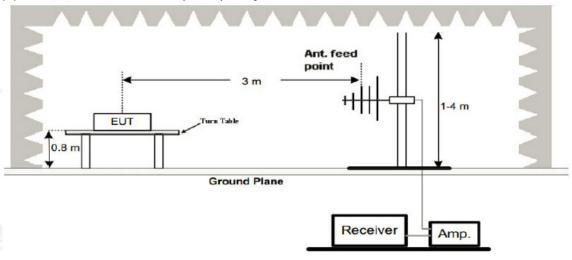
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

(1) Radiated Emission Test-Up Frequency Below 30MHz

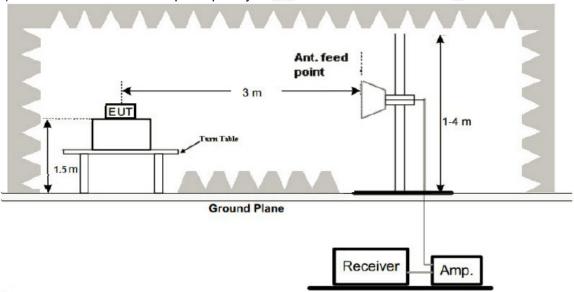


(2) Radiated Emission Test-Up Frequency 30MHz~1GHz



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(3) Radiated Emission Test-Up Frequency Above 1GHz



4.3 Test Procedure

- 1. Below 1GHz measurement the EUT is placed on turntable which is 0.8m above ground plane. And above 1GHz measurement EUT was placed on low permittivity and low tangent turn table which is 1.5m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

Note

For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS

All the test modes completed for test. The worst case of Radiated Emission is CH 01; the test data of this mode was reported.

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Below 1GHz Test Results:

Antenna polarity: H

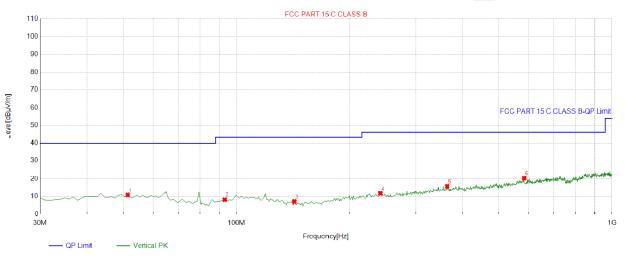


Suspe	Suspected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	60.1001	-13.96	24.79	10.83	40.00	29.17	100	214	Horizontal	
2	109.6196	-14.22	25.69	11.47	43.50	32.03	100	117	Horizontal	
3	197.0070	-14.97	24.98	10.01	43.50	33.49	100	320	Horizontal	
4	307.6977	-11.88	25.25	13.37	46.00	32.63	100	331	Horizontal	
5	475.6757	-8.22	24.63	16.41	46.00	29.59	100	29	Horizontal	
6	653.3634	-4.92	25.67	20.75	46.00	25.25	100	236	Horizontal	

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

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Antenna polarity: V



QP Detector

Suspe	pected List									
NO.	Freq. [MHz]	Factor [dB]	Reading [dBµV/m]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	
1	51.3614	-13.25	23.99	10.74	40.00	29.26	100	358	Vertical	
2	93.1131	-15.92	24.00	8.08	43.50	35.42	100	153	Vertical	
3	142.6326	-18.41	25.47	7.06	43.50	36.44	100	228	Vertical	
4	241.6717	-13.52	25.16	11.64	46.00	34.36	100	184	Vertical	
5	364.0140	-9.62	25.26	15.64	46.00	30.36	100	2	Vertical	
6	583.4535	-5.58	25.93	20.35	46.00	25.65	100	305	Vertical	

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

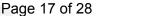
Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)
(T)		-	
	-		HUAKTE
		HUAK TESTING	HINW Jeanna
	HUAN ILLAND		

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.



Above 1 GHz Test Results:

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CH Low (2407MHz)

Horizontal:

HUAK TESTING

i ionzontai.	ULLAK TESTING					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type HUAK TESTING
2407	101.15	-5.84	95.31	114	18.69	peak
2407	84.4	-5.84	78.56	94	15.44	AVG
4814	50.63	-3.64	46.99	74	27.01	peak
4814	37.64	-3.64	34 ^{TESTING}	54	20	AVG
7221	49.86	-0.95	48.91	74	25.09	peak
7221	37.71	-0.95	36.76	54	17.24	AVG
477.75	•	NCP-ST		THE ART TESTINO	•	•

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

Vertical:

	Part of the Control					
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2407	100.76	-5.84	94.92	114	19.08	peak
2407	79.95	-5.84	74.11	94	19.89	AVG
4814	51.22	-3.64	47.58	74	26.42	peak
4814	38.73	-3.64	35.09	54	18.91	AVG
7221	47.65	-0.95	46.7	74	27.3	peak
7221	37.68	-0.95	36.73	54	17.27	AVG

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



CH Middle (2431MHz)

Horizontal:

Horizontal.			HUAR ILOTH			
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2431	104.65	-5.71	98.94	HUAK 1114	15.06	peak
2431	72.99	-5.71	67.28	94	26.72	AVG
4862	47.18	-3.51	43.67	74	30.33	peak
4862	42.71	-3.51	39.2	54	14.8	AVG
7293	47.94	-0.82	47.12	74	26.88	peak
7293	41.05	-0.82	40.23	54	13.77	AVG

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

Vertical:

vertical.	Augusta		V2147		HIJAK TESTING	
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2431	102.03	-5.71	96.32	114	17.68	peak
2431	77.59	-5.71	71.88	94	22.12	AVG
4862	54.21	-3.51	50.7	74	23.3	peak
4862	42.69	-3.51	39.18	54	14.82	AVG
7293	49.44	-0.82	48.62	74	25.38	peak
9 7293	39.45	-0.82	38.63	54	15.37	AVG

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



CH High (2455MHz)

Horizontal.

i ionzoniai.						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2455	102.85	-5.65	97.2	HUAK 114 ⁶	16.8	peak
2455	78.5	-5.65	72.85	94	21.15	AVG
4910	50.70	-3.43	47.27	74	26.73	peak
4910	40.87	-3.43	37.44	54	16.56	AVG
7365	49.08	-0.75	48.33	74	25.67	peak
7365	38.82	-0.75	38.07	54	15.93	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
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2455	104.85	-5.65	99.2	114	14.8	peak
2455	78.51	-5.65	™ 72.86	94	21.14	AVG
4910	51.49	-3.43	48.06	74	25.94	peak
4910	43.39	-3.43	39.96	54	14.04	AVG
7365	47.26 HUAKTI	-0.75	46.51 HUAKTES	^{1NG} 74	27.49	peak
7365	38.13	-0.75	37.38	54	16.62	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 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/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.



5.3 Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH Low (2407MHz)

Horizontal (Worst case):

		110101 0000).				NAME AND ADDRESS OF THE PARTY O	
	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
NG.	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
	2310	53.57	-5.81	47.76	74	26.24	peak
Ī	2310	1	-5.81	1	54	1	AVG
ſ	2390	52.44	-5.84	46.6	74	27.4	peak
Ī	2390	1	-5.84	/ STA	54	HUAK STING	AVG
ST	2400	50.76	-5.84	44.92	74	29.08	peak
	2400	1	-5.84	1	54	1	AVG

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

Vertical:

	/Ellical.	AUA.		A WITE A		HUAK TESTING	
FI	requency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
	2310	56.23	-5.81	50.42	74 TESTING	23.58	peak
	2310	ESTING	-5.81	1	54	1	AVG
	2390	51.96	-5.84	46.12	74	27.88	peak
ων. ΔΤΔ ξ	2390	/	-5.84	HUAK TES	^{ring} 54	1	AVG
U.K TEST	2400	51.48	-5.84	45.64	74	28.36	peak
	2400	1	-5.84	1	54	1	AVG

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



Operation Mode: TX CH High (2455MHz)

Horizontal (Worst case):

	Tronzontar ((VVOISt Gase).					
ı	Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
	2483.50	55.75	-5.65	50.1	74	23.9	peak
	2483.50	1	-5.65	(ATA)	54	HUAK TESTING	AVG
	2500.00	52.3	-5.65	46.65	74	27.35	peak
1180	2500.00	1	-5.65	1	54	1	AVG

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

Vertical:

					20171.07	
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	51.43	-5.65	45.78	74	28.22	peak
2483.50	TING	-5.65 AK TESTI	⁶	54	1	AVG
2500.00	49.15	-5.65	43.5	74	30.5	peak
2500.00	1	-5.65	/ HUAKTESTI	54	HUAK TESTI	AVG

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

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

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.



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= 30KHz. VBW= 91KHz, Span= 5MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

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6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

6.4 Test Result

PASS

Frequency	20dB Bandwidth (MHz)	Result
2407MHz	1.066	PASS
2431MHz	1.071	PASS
2455MHz	1.077	PASS

CH: 2407MHz





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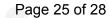
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CH: 2431MHz



CH: 2455MHz







7. Antenna Requirement

Standard Applicable

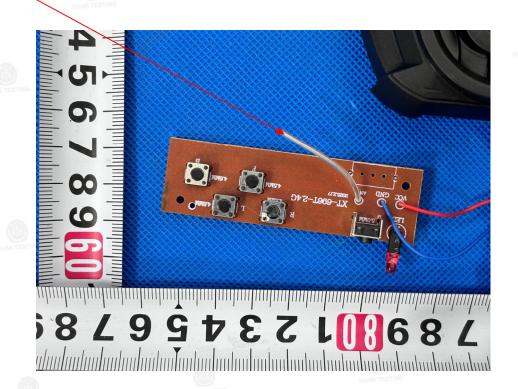
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

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Antenna Connected Construction

The antenna used in this product is an Internal antenna, need professional installation, not easy to remove. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

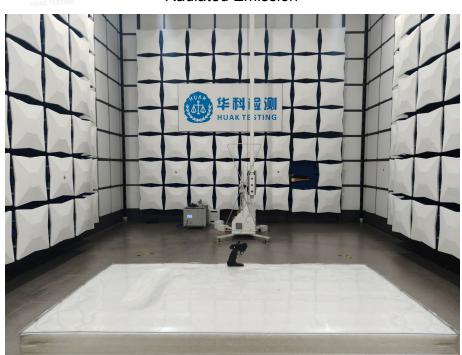
Antenna





8. Photographs of Test

Radiated Emission







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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-----