



FCC TEST REPORT

Test report
On Behalf of
Cockatoo & Friends Co., Ltd.
For

.

Quadcopter

Model No.: TX-50, Explore Blazer, Skybound, Windchaser, Blaze Wind, Star Voyager, Wild Rover, Gravity, Deep Current, Thunderstrike, Skybreaker, Revelation, Mach 500, Ninja Master, TX-200, TX-ONE, TX-ONE-R, ARX-100, Firefly-EX

FCC ID: 2BAIV-TX-50

Prepared for: Cockatoo & Friends Co., Ltd.

Dongxiaojing Industrial Park No. 205 Zone B, Unit 1277, Dongba Township,

Chaoyang District, Beijing, 100024 China

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

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Date of Test: Sept. 10, 2024 ~ Dec. 06, 2024

Date of Report: Dec. 06, 2024

Report Number: HK2410226207-3E



TEST RESULT CERTIFICATION

Applicant's name	: Cockatoo & Friends Co.,	Ltd.

Dongxiaojing Industrial Park No. 205 Zone B, Unit 1277, Dongba Address.....

Township, Chaoyang District, Beijing, 100024 China

Manufacturer's Name.....: Shantou Xiaoge Intelligent Technology Co., Ltd.

5th floor, building A, Qunfa Science Park, west of Jinhong Road,

Chenghai District, Shantou, Guangdong, China

Product description

Trade Mark.....: HISINGY

Product name Quadcopter

TX-50, Explore Blazer, Skybound, Windchaser, Blaze Wind, Star

Report No.: HK2410226207-3E

Voyager, Wild Rover, Gravity, Deep Current, Thunderstrike, Skybreaker, Model and/or type reference ..:

Revelation, Mach 500, Ninja Master, TX-200, TX-ONE, TX-ONE-R,

ARX-100, Firefly-EX

FCC Rules and Regulations Part 15 Subpart C Section 15.249

Standards ANSI C63.10: 2013

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Date of Test

Sept. 10, 2024 ~ Dec. 06, 2024 Date (s) of performance of tests.....

Dec. 06, 2024 Date of Issue

Test Result.....

Testing Engineer

(Len Liao)

Technical Manager

(Sliver Wan)

Authorized Signatory

(Jason Zhou)







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** Modified History **

Revision	Description	Issued Data	Remark	
Revision 1.0	Initial Test Report Release	Dec. 06, 2024	Jason Zhou	
TESTING	TESTING	ESTING TESTIN	G TESTING	
MAN	HUAN HUAN	HUAN	HUAN	

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1. TEST SUMMARY

1.1 Test Procedures And Results

DESCRIPTION OF TEST	Dla Dla	RESULT
CONDUCTED EMISSIONS TEST	§ 15.207	N/A
RADIATED EMISSION TEST	§ 15.249 (a) / §15.209	COMPLIANT
BAND EDGE	§ 15.249 (d)/ §15.209	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

Conducted Emission Expanded Uncertainty	=	2.23dB, k=2
Radiated emission expanded uncertainty(9kHz-30MHz)	- VI	3.08dB, k=2
Radiated emission expanded uncertainty(30MHz-1000MHz)	(62)	4.42dB, k=2
Radiated emission expanded uncertainty(Above 1GHz)	=	4.06dB, k=2

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2. GENERAL INFORMATION

2.1 General Description of EUT

Equipment	Quadcopter			
Model Name	TX-50	HUAKTE	HUAKTE	HUAK
Serial Model	Voyager, Wild R Skybreaker, Re	Skybound, Wind Rover, Gravity, Develation, Mach 5 NE-R, ARX-100, F	eep Current, Thu 500, Ninja Maste	ınderstrike,
Model Difference	A/G	unction, software model named di		
FCC ID	2BAIV-TX-50			
Antenna Type	FPC Antenna	TSTING	STING	
Antenna Gain	4.5dBi	HUAKI	HUNK	HUAK
Equipment	Quadcopter		-mG	
Operation frequency	2405MHz~2480	MHz	HUAKTES	STAN
Number of Channels	16CH	HUAK	9	HUAKI
Modulation Type	GFSK		Y TESTING	
Power Source	DC 6V from Batt	tery	ion.	NG .
Power Rating	DC 6V from Batt	tery	HUAKTE	HUAK
Firmware Version	V2.0			
Hardware Version	V2.0			

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

Description of Channel:								
Channel	Frequency (MHz)			Channel	Frequency (MHz)			
1	2405	8	2440	15	2475			
2 5 11115	2410	(TESTING)	2445	16	2480			
3	2415	10	2450					
4	2420	^{myG} 11	2455		me			
TESTI 5	2425	12	2460	Carlot I				
6	2430	13	2465		Q HI			
7	2435	14	2470	THE THE				

2.3 Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode

Channel1: 2405MHz Channel20: 2440MHz Channel40: 2480MHz

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2.4 Description of Test Setup

Operation of EUT during radiation testing:

EUT

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

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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.

Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Note
TESI.	Quadcopter	HISINGY	TX-50	N/A	EUT

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.

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2.6 Measurement Instruments List

Ite m	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
x 1EST	L.I.S.N.	R&S	ENV216	HKE-002	Feb. 20, 2024	1 Year
2	L.I.S.N.	R&S	ENV216	HKE-059	Feb. 20, 2024	1 Year
3	EMI Test Receiver	R&S	ESR	HKE-005	Feb. 20, 2024	1 Year
4	Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 20, 2024	1 Year
5	Spectrum analyzer	R&S	FSV3044	HKE-126	Feb. 20, 2024	1 Year
6	Preamplifier	EMCI	EMC051845S	HKE-006	Feb. 20, 2024	1 Year
7	Preamplifier	Schwarzbeck	BBV 9743	HKE-016	Feb. 20, 2024	1 Year
8	Preamplifier	A.H. Systems	SAS-574	HKE-182	Feb. 20, 2024	1 Year
9	6d Attenuator	Pasternack	6db	HKE-184	Feb. 20, 2024	1 Year
10	EMI Test Receiver	Rohde & Schwarz	ESR-7	HKE-010	Feb. 20, 2024	1 Year
11	Broadband Antenna	Schwarzbeck	VULB9168	HKE-167	Feb. 21, 2024	2 Year
12	Loop Antenna	COM-POWER	AL-130R	HKE-014	Feb. 21, 2024	2 Year
13	Horn Antenna	Schewarzbeck	9120D	HKE-013	Feb. 21, 2024	2 Year
14	EMI Test Software	Tonscend	JS32-CE 2.5.0.6	HKE-081	N/A	N/A
15	EMI Test Software	Tonscend	JS32-RE 5.0.0	HKE-082	N/A	N/A
16	RF Automatic control unit	Tonscend	JS0806-1	HKE-096	Feb. 20, 2024	1 Year
17	High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 20, 2024	1 Year
18	Wireless Communication Test Set	R&S	CMU200	HKE-026	Dec. 09, 2021	3 Year
19	Wireless Communication Test Set	R&S	CMW500	HKE-027	Feb. 20, 2024	1 Year
20	High-low temperature chamber	Guangke	HT-80L	HKE-118	Jun. 10, 2024	1 Year
21	Temperature and humidity meter	Boyang S		HKE-075	Jun. 10, 2024	1 Year
22	RF Test Software	Tonscend	JS1120-3 Version 3.3.23	HKE-083	N/A	N/A
23	10dB Attenuator	Schwarzbeck	VTSD9561F	HKE-153	Feb. 20, 2024	1 Year
24	RSE Test Software	Tonscend	JS36-RSE 5.0.0	HKE-184	N/A	N/A



3. CONDUCTED EMISSIONS TEST

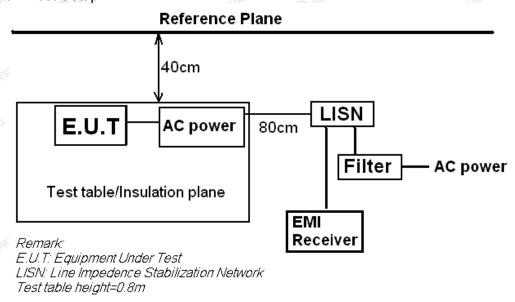
3.1 Conducted Power Line Emission Limit

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

Fraguency	Maximum RF Line Voltage (dBμV)					
Frequency (MHz)	CLAS	SS A	CLASS B			
(11112)	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

- 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.





3.4 Test Result

Not applicable

Note: EUT powers supply by DC Power, so this test item not applicable.

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4 RADIATED EMISSION TEST

4.1 Radiation Limit

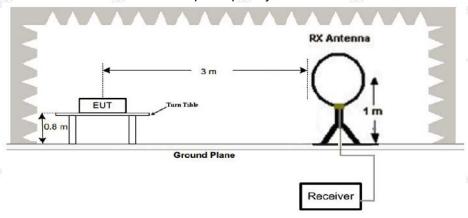
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (µV/m)
30-88	3	40	100
88-216	3	43.5	150
216-960	3	46	200
Above 960	3	54	500

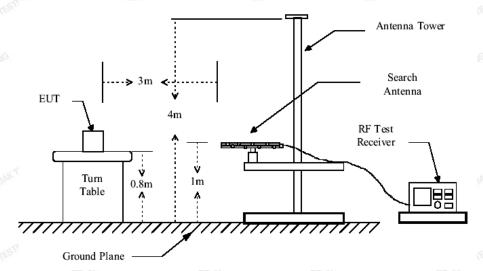
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

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



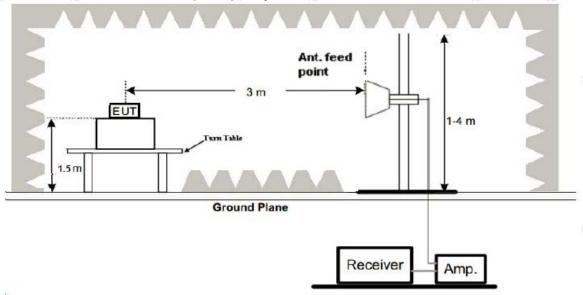
(2) Radiated Emission Test-Up Frequency 30MHz~1GHz



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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

Below 1GHz Test Results:

Antenna polarity: H



Suspe	Suspected List									
	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	107.67767	-14.18	26.39	12.21	43.50	31.29	100	91	Horizontal	
2	202.83283	-15.23	38.00	22.77	43.50	20.73	100	83	Horizontal	
3	274.68468	-12.70	39.79	27.09	46.00	18.91	100	263	Horizontal	
4	319.34934	-11.24	38.79	27.55	46.00	18.45	100	302	Horizontal	
5	599.95996	-5.33	31.79	26.46	46.00	19.54	100	74	Horizontal	
6	680.55055	-4.65	32.17	27.52	46.00	18.48	100	44	Horizontal	

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

Antenna polarity: V



j	Suspected List									
ı		Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	5
1	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
g	1	45.535536	-13.92	25.46	11.54	40.00	28.46	100	236	Vertical
	2	68.838839	-16.41	27.83	11.42	40.00	28.58	100	11	Vertical
	3	119.32932	-15.94	26.99	11.05	43.50	32.45	100	360	Vertical
	4	221.28128	-14.41	34.95	20.54	46.00	25.46	100	172	Vertical
4	5	271.77177	-12.57	38.15	25.58	46.00	20.42	100	225	Vertical
	6	520.34034	-7.44	32.49	25.05	46.00	20.95	100	278	Vertical

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

Remark:

- (1) Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz was verified, and no any emission was found except system noise floor.
- (2) * 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.
- (3) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.

Above 1 GHz Test Results:

CH Middle (2405MHz)

Horizontal:

i ionzontai.						
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2405	99.38	-5.71	93.67	114	-20.33	peak
2405	77.97	-5.71	72.26	94	₆ -21.74	AVG
4810	47	-3.51	43.49 ⁶	74	-30.51	peak
4810	37.53	-3.51	34.02	54	-19.98	AVG
7215	50.07	-0.82	49.25	74	-24.75	peak
7215	35.82	-0.82	6 35 m ^G	54	-19	AVG [©]

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	DUAK TESTI
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2405	98.64	-5.71	92.93	114	-21.07	peak
2405	79.03	-5.71	73.32	94	-20.68	AVG
4810	49.28	-3.51	45.77	74	-28.23	peak
4810	36.36	-3.51	32.85	54	-21.15	AVG
7215	50.26	-0.82	49.44	74	-24.56	peak
7215	37.24	-0.82	36.42	54	-17.58	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level

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CH Middle (2440MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2440	98.31	-5.71	92.6	114 WAKETE	-21.4	peak
2440	80.29	-5.71	74.58	94	-19.42	AVG
4880	48.72	-3.51	45.21	74	-28.79	peak
4880	36.59	-3.51	33.08	54	-20.92	AVG
7320	52.92	-0.82	52.1	74	-21.9	peak
7320	36.26	-0.82	35.44	54	-18.56	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	AK TESTIN
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2440	99.33	-5.71	93.62	114	-20.38	peak
2440	78.26	-5.71	72.55	94	-21.45	AVG
4880	49.65	-3.51	46.14	74	-27.86	peak
4880	37.68	-3.51	34.17	54	-19.83	AVG
7320	52.79	-0.82	51.97	74	-22.03	peak
7320	35.93	-0.82	35.11	54	-18.89	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level





CH High (2480MHz) Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datasta
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	101.16	-5.65	95.51	114	-18.49	peak
2480	79.96	-5.65	74.31	94	° -19.69	AVG
4960	48.70	-3.43	45.27	74	-28.73	peak
4960	37.16	-3.43	33.73	54	-20.27	AVG
7440	50.31	-0.75	49.56	74	-24.44	peak
7440	37.01	-0.75	36.26	54	-17.74	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	∍ (dBμV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2480	100.38	-5.65	94.73	114	-19.27	peak
2480	78.5	-5.65	72.85	94 mil	-21.15	AVG
4960	48.20	-3.43	44.77	74	-29.23	peak
4960	36.57	-3.43	33.14	54	-20.86	AVG
7440	50.16	-0.75	49.41	74	-24.59	peak
7440	36.23	-0.75	35.48	54	-18.52	AVG
– Level	i – Aineilla Fa	icioi + Cable I	oss – Pre-amplitier;	Level - Reading	T FACIOI, IVIA	irgin = Limit

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.



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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 (2405MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	56.44	-5.81	50.63	74	-23.37	peak
2310	V TESTING OF	-5.81	ETING / WIESTING	54	TESTING	AVG
2390	55.69	-5.84	49.85	74	-24.15	peak
2390	1	-5.84	/	54	1	AVG
2400	55.87	-5.84	50.03	⁶ 74	-23.97	peak
2400	HILL	-5.84	1 HOME	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
2310	54.29	-5.81	48.48	74	-25.52	peak	
2310	1	-5.81	/	54	1	AVG	
2390	52.26	-5.84	46.42	74	-27.58	peak	
2390	1	-5.84	P	54	1	AVG	
2400	54.26	-5.84	48.42	74 TEST	-25.58	peak	
2400	1	-5.84	HURYTES	54	I HUI	AVG	

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Limit – Level



Operation Mode: TX CH High (2480MHz)

Horizontal (Worst case)

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Data etan Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.13	-5.65	48.48	74	-25.52	peak
2483.50	TING /	-5.65	I	54	STILL	AVG
2500.00	55.89	-5.65	50.24	74	-23.76	peak
2500.00	1	-5.65	1	54	1	AVG
	- 1G (6)(6) (4))		-16	Will to		(G. //0

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Limit - Level

Vertical:

3.7	4 1	41	4		4 1	4. \
Frequency	Reading Result	Factor	Emission Level	Limits 0	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.86	-5.65	49.21	74	-24.79	peak
2483.50	1	-5.65	1	54	1	AVG
2500.00	52.84	-5.65	47.19	74	-26.81	peak
2500.00	1	-5.65	(a) Hyper	54	HUAK	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; 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.



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= 10KHz. VBW= 30KHz, Span=1.5MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyser with peak detector.

6.3 Measurement Equipment Used

Same as Radiated Emission Measurement

6.4 Test Result

PASS

Frequency	20dB Bandwidth (KHz)	Result
2405 MHz	521.2	THE OF THE
2440 MHz	518.4	PASS
2480 MHz	595.6	TESTING

CH: 2405MHz



CH: 2440MHz



CH: 2480MHz





W. TESTIN

7 ANTENNA REQUIREMENT

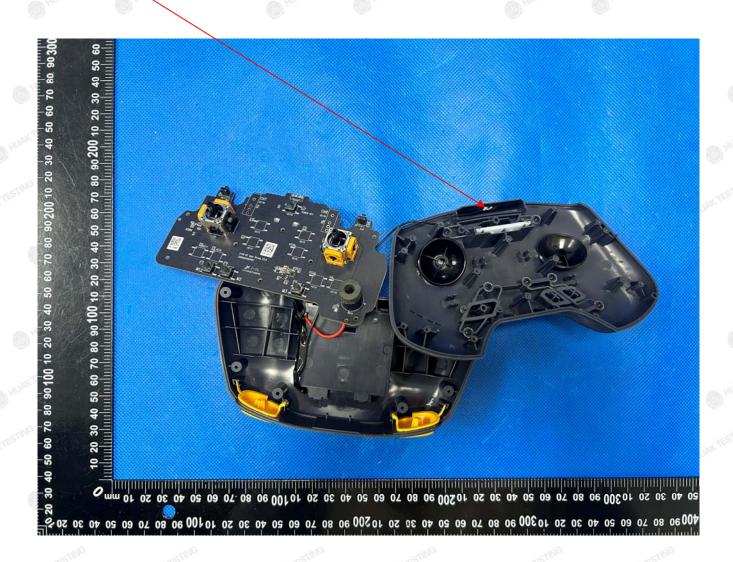
Standard Applicable

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.

Antenna Connected Construction

The antenna used in this product is a FPC Antenna which permanently attached. It conforms to the standard requirements, The directional gains of antenna used for transmitting is 4.5dBi.

ANTENNA

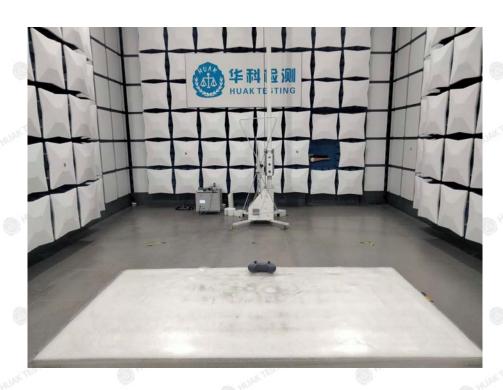


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8 PHOTOGRAPH OF TEST

8.1 Radiated Emission





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

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