

FCC TEST REPORT

Test report
On Behalf of
Guangdong AUKATA Innovation Technology Co., Ltd
For
RC Car

Model No.: XDKJ-022, Please refer to page 6 for Serial models

FCC ID: 2A4KU-22XDKJ

Prepared For: Guangdong AUKATA Innovation Technology Co., Ltd

Daping Industrial District, Jianyang Village, Lianxia Town, Chenghai District,

Shantou City, Guangdong Province, China

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

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Date of Test: Feb. 12, 2022~Mar. 07, 2022

Date of Report: Mar. 07, 2022

Report Number: HK2202180466-E



TEST RESULT CERTIFICATION

Applicant's name : Guangdong AUKATA Innovation Technology Co., Ltd

Address : Daping Industrial District, Jianyang Village, Lianxia Town,
Chenghai District, Shantou City, Guangdong Province, China

Manufacture's Name.....: Guangdong AUKATA Innovation Technology Co., Ltd

Address Daping Industrial District, Jianyang Village, Lianxia Town,
Chenghai District, Shantou City, Guangdong Province, China

Product description

Trade Mark: N/A

Product name RC Car

Model and/or type reference : XDKJ-022, Please refer to page 6 for Serial models

FCC Rules and Regulations Part 15 Subpart C Section 15.249

Report No.: HK2202180466-E

Standards ANSI C63.10: 2013

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Date of Test....:

Date (s) of performance of tests Feb. 12, 2022~Mar. 07, 2022

Date of Issue Mar. 07, 2022

Test Result Pass

Testing Engineer : Lam Dian

(Gary Qian)

Technical Manager : 7

(Eden Hu)

Authorized Signatory: Jason Zho

(Jason Zhou)

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** Modified History **

-TIME	" The	C.I.	-410-
Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Mar. 07, 2022	Jason Zhou

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1. TEST SUMMARY

1.1. Test Procedures and Results

DESCRIPTION OF TEST	SECTION NUMBER	RESULT
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



2. GENERAL INFORMATION

2.1. General Description of EUT

Equipment:	RC Car					
Model Name:	XDKJ-022					
	XDKJ-001, XDKJ-002, XDKJ-003, XDKJ-004, XDKJ-005,					
	XDKJ-006, XDKJ-007, XDKJ-008, XDKJ-009, XDKJ-010,					
	XDKJ-011, XDKJ-012, XDKJ-013, XDKJ-014, XDKJ-015,					
	XDKJ-016, XDKJ-017, XDKJ-018, XDKJ-019, XDKJ-020,					
Series Model:	XDKJ-021, XDKJ-023, XDKJ-024, XDKJ-025, XDKJ-026,					
	XDKJ-027, XDKJ-028, XDKJ-029, XDKJ-030, XDKJ-031,					
	XDKJ-032, XDKJ-033, XDKJ-034, XDKJ-035, XDKJ-036,					
	XDKJ-037, XDKJ-038, XDKJ-039, XDKJ-040, XDKJ-041,					
	XDKJ-042 , XDKJ-043, ZWD-005, ZWD-011					
	All model's the function, software and electric circuit are the					
Model Difference:	same, only with a product color, appearance and model named					
	different. Test sample model: XDKJ-022.					
FCC ID:	2A4KU-22XDKJ					
Antenna Type:	Internal Antenna					
Antenna Gain:	0dBi alay TESTA					
Operation frequency:	2420-2465MHz					
Number of Channels:	25CH					
Modulation Type:	GFSK					
Power Source:	DC 4.5V from battery					
Power Rating:	DC 4.5V from battery					

FICATION





2.1.1. Carrier Frequency of Channels

140	" Br	da.	" Die	da.	44 Par
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
STING 1	2420	10	2437	19	2453
2	2422	11	2439	20	2455
3	2424	12	2441	21	2457
4	2426	13	2443	22	2459
5 , ,,,,,,,,	2428	14	2445	23	2461
6	2430	15	2446	24	2463
7	2431	16	2447	25	2465
8	2433	17	2449	TE INC.	WAR ESTA
9	2435	18	2451		

2.2. Operation of EUT During Testing

Operating Mode

The mode is used: Transmitting mode

Low Channel: 2420MHz Middle Channel: 2445MHz High Channel: 2465MHz

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2.3. Description of Test Setup

Operation	of EUT during testing	g:		
UAKTESTING	max EUT			
STING				

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.



2.4. Measurement Instruments List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
IK TEST	L.I.S.N.	- WAKTEST	MAKTESI	- WAKT		KTESIN
1.	Artificial Mains	R&S	ENV216	HKE-002	Dec. 09, 2021	1 Year
	Network	TESTING		TESTIN		
2.	Receiver	R&S	ESCI 7	HKE-010	Dec. 09, 2021	1 Year
3.	RF automatic control unit	Tonscend	JS0806-2	HKE-060	Dec. 09, 2021	1 Year
4.	Spectrum analyzer	R&S	FSP40	HKE-025	Dec. 09, 2021	1 Year
5.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 09, 2021	1 Year
6.	Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Dec. 09, 2021	1 Year
Zime	EMI Test Receiver	Rohde & Schwarz	ESCI 7	HKE-010	Dec. 09, 2021	1 Year
8.	Bilog Broadband Antenna	Schwarzbeck	VULB9163	HKE-012	Dec. 09, 2021	1 Year
9.	Loop Antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Dec. 09, 2021	⁰ 1 Year
10.	Horn Antenna	Schewarzbeck	9120D	HKE-013	Dec. 09, 2021	1 Year
11.	Pre-amplifier	EMCI	EMC051845S E	HKE-015	Dec. 09, 2021	1 Year
12.	Pre-amplifier	Agilent	83051A	HKE-016	Dec. 09, 2021	1 Year
13.	EMI Test Software EZ-EMC	Tonscend	JY3120-B Version	HKE-083	N/A	N/A
14.	Power Sensor	Agilent	E9300A	HKE-086	Dec. 09, 2021	1 Year
15.	Spectrum analyzer	Agilent	N9020A	HKE-048	Dec. 09, 2021	1 Year
16.	Signal generator	Agilent	N5182A	HKE-029	Dec. 09, 2021	1 Year
17.	Signal Generator	Agilent	83630A	HKE-028	Dec. 09, 2021	1 Year
18.	Shielded room	Shiel Hong	4*3*3	HKE-039	Dec. 09, 2021	3 Year
19.	Hight gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Dec. 09, 2021	1 Year



3. CONDUCTED EMISSIONS TEST

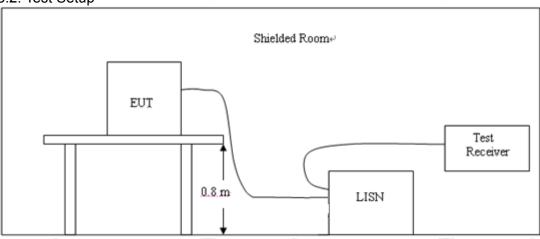
3.1. Conducted Power Line Emission Limit

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

Fraguenav	M	aximum RF L	ine Voltage (d	BμV)		
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

- 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.
- Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.



3.4. Test Result

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



4. RADIATED EMISSION TEST

4.1. Radiation Limit

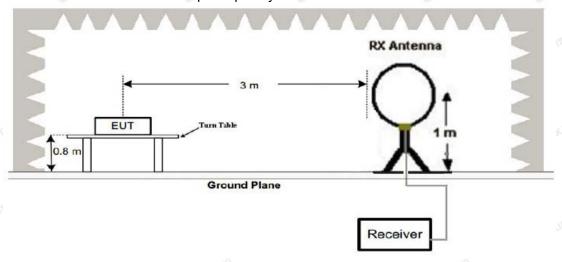
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

1600			
Frequency (MHz)	Distance (Meters)	Radiated (dBµV/m)	Radiated (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	41 AV 30	20log 30	30
30-88	3	40	100
88-216	3	43.5	150
216-960	TESTING 3	46	200
Above 960	HUPAN 3	54	500

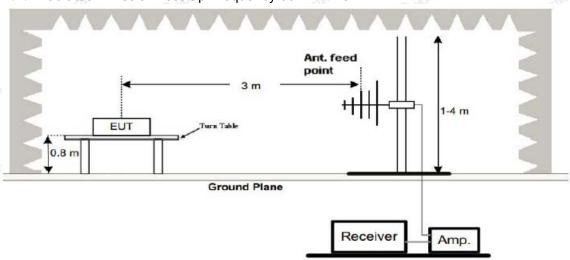
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2. Test Setup

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



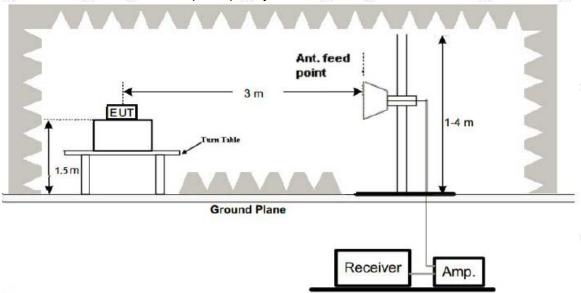
(2) Radiated Emission Test-Up Frequency 30MHz~1GHz



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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.
- 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.



Below 1GHz Test Results:

Antenna polarity: H



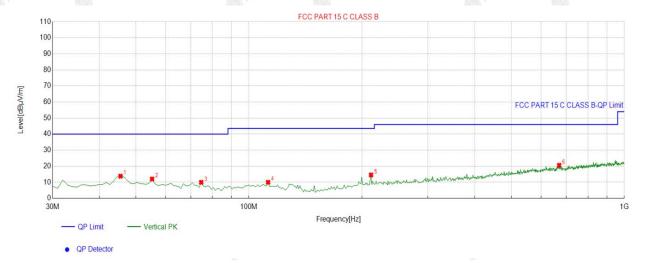
•	QP			
•	G(I	De	iec	w

٠.										
	Suspe	cted List								
	NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Dalasitus
	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity
	1	50.3904	-13.71	24.00	10.29	40.00	29.71	100	115	Horizontal
	2	69.8098	-17.62	24.98	7.36	40.00	32.64	100	198	Horizontal
	3	104.7648	-15.41	25.66	10.25	43.50	33.25	100	194	Horizontal
	4	137.7778	-19.04	29.72	10.68	43.50	32.82	100	246	Horizontal
	5	262.0621	-13.55	26.30	12.75	46.00	33.25	100	329	Horizontal
	6	668.8989	-4.63	24.95	20.32	46.00	25.68	100	218	Horizontal

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

ESTING ESTING

Antenna polarity: V



Suspe	Suspected List									
NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevitor	
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity	
1	45.5355	-13.65	27.42	13.77	40.00	26.23	100	12	Vertical	
2	55.2452	-14.44	26.45	12.01	40.00	27.99	100	2	Vertical	
3	74.6647	-18.51	28.45	9.94	40.00	30.06	100	130	Vertical	
4	112.5325	-15.85	25.82	9.97	43.50	33.53	100	162	Vertical	
5	211.5716	-14.76	29.32	14.56	43.50	28.94	100	194	Vertical	
6	670.8408	-4.59	25.17	20.58	46.00	25.42	100	59	Vertical	

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

Harmonics and Spurious Emissions

Frequency Range (9 kHz-30MHz)

	Frequency (MHz)	Frequency (MHz) Level@3m (dBµV/m)			Limit@3m (dBµV/m)			
11.	ALC:	- JUAKTESTIL	myG	- MAKTESTIL		TING		
	HUAKTES	9.	HIAKTES		HUAY	TES		
		-ESTING	·	ESTING	_			
	THE THE MANAGEMENT OF THE PARTY	a)G	mg	HUNK	AIG	TING		

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: CH Low (2420MHz)

Horizontal:

	. No.	20	. 440		Also.	No.
Frequency	Meter Reading	Factor	Emission Level	Limits O	Margin	Detector.
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2420	103.86	-5.84	98.02	114	-15.98	peak
2420	85.77	-5.84	79.93	94	-14.07	AVG
4840	54.66	-3.64	51.02	74	-22.98	peak
4840	42.02	-3.64	38.38	54	-15.62	AVG
7260	52.97	-0.95	52.02	74	-21.98	peak
7260	38.26	-0.95	37.31	54	-16.69	AVG
Remark: Factor	r = Antenna Fa	actor + Cable L	oss – Pre-amplifier.	_{IN} G	ESTING	
	1.0				11/1	

Vertical:

Meter Reading	Factor	Emission Level	Limits	Margin	MAKTESTIIV
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
104.28	-5.84	98.44	114	-15.56	peak
80.7	-5.84	74.86	94	-19.14	AVG
51.05	-3.64	47.41	74	-26.59	peak
43.07	-3.64	39.43	54	-14.57	AVG
51.14	-0.95	50.19	74	-23.81	peak
40.64	-0.95	39.69	54	-14.31	AVG
	Reading (dBµV) 104.28 80.7 51.05 43.07 51.14	Reading Factor (dBμV) (dB) 104.28 -5.84 80.7 -5.84 51.05 -3.64 43.07 -3.64 51.14 -0.95	Reading Factor Emission Level (dBμV) (dB) (dBμV/m) 104.28 -5.84 98.44 80.7 -5.84 74.86 51.05 -3.64 47.41 43.07 -3.64 39.43 51.14 -0.95 50.19	Reading Factor Emission Level Limits (dBμV) (dB) (dBμV/m) (dBμV/m) 104.28 -5.84 98.44 114 80.7 -5.84 74.86 94 51.05 -3.64 47.41 74 43.07 -3.64 39.43 54 51.14 -0.95 50.19 74	Reading Factor Emission Level Limits Margin (dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 104.28 -5.84 98.44 114 -15.56 80.7 -5.84 74.86 94 -19.14 51.05 -3.64 47.41 74 -26.59 43.07 -3.64 39.43 54 -14.57 51.14 -0.95 50.19 74 -23.81

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



CH Middle (2445MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detecto
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2445	108.36	-5.71	102.65	114	-11.35	peak
2445	77.59	-5.71	71.88	94	-22.12	AVG
4890	53.22	-3.51	49.71	74	-24.29	peak
4890	42.95	-3.51	39.44	54	-14.56	AVG
7335	51.05	-0.82	50.23	74	-23.77	peak
7335	40.49	-0.82	39.67	54	-14.33	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits www.	Margin	Deseting
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detecto Type
2445	106.89	-5.71	101.18	114 -5111116	-12.82	peak
2445	82.06	-5.71	76.35	94	-17.65	AVG
4890	54.52	-3.51	51.01	74	-22.99	peak
4890	44.55	-3.51	41.04	54	-12.96	AVG
7335	52.18	-0.82	51.36	74	-22.64	peak
7335	40.07	-0.82	39.25	54	-14.75	AVG

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CH High (2465MHz)

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2465	101.88	-5.65	96.23	114	-17.77	peak
2465	82.08	-5.65	76.43	94	-17.57	AVG
4930	56.81	-3.43	53.38	74	-20.62	peak
4930	42.18	-3.43	38.75	54 gm	-15.25	AVG
7395	50.38	-0.75	49.63	74	-24.37	peak
7395	41.93	-0.75	41.18	54	-12.82	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2465	104.51	-5.65	98.86	114	-15.14	peak
2465	81.15	-5.65	75.5	94	-18.5	AVG
4930	55.73	-3.43	52.3	74	-21.7	peak
4930	43.37	-3.43	39.94	54	-14.06	AVG
7395	55.32	-0.75	54.57	74	-19.43	peak
7395	40.53	-0.75	39.78	54	-14.22	AVG
⊭ ≀emark: Facto	r = Antenna Fa	ctor + Cable I	oss – Pre-amplifier			

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.

5.3. Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH Low (2420MHz)

Horizontal (Worst case)

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	54.16	-5.81	48.35	74 TESTING	-25.65	peak
2310	TESTING (D)	-5.81	STING /	54	TING	AVG
2390	55.26	-5.84	49.42	74	-24.58	peak
2390	1	-5.84	1	54	/	AVG
2400	53.12	-5.84	47.28	₁₀ 74	-26.72	peak
2400	HUAR	-5.84	HUAR	54	35-7	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	56.24	-5.81	50.43	74	-23.57	peak
2310	W TEXTING	-5.81	NG /	^{iniG} 54	y TESTING	AVG
2390	56.71	-5.84	50.87	74 🔘 🗥	-23.13	peak
2390	1	-5.84	1	54	TING /	AVG
2400	55.69	-5.84	49.85	74	-24.15	peak
2400	1	-5.84	9 /	54	1	AVG

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Operation Mode: TX CH High (2465MHz)

Horizontal (Worst case)

Reading Result	Factor	Emission Level	Limits	Margin	Data et en Tura e
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
56.03	-5.65	50.38	74	-23.62	peak
I S	-5.65	1	54	K TESTING	AVG
53.41	-5.65	47.76	74	-26.24	peak
1	-5.65	1	54	₁ 1	AVG
	(dBµV) 56.03	(dBµV) (dB) 56.03 -5.65 / -5.65 53.41 -5.65	(dBμV) (dB) (dBμV/m) 56.03 -5.65 50.38 / -5.65 / 53.41 -5.65 47.76	(dBμV) (dB) (dBμV/m) (dBμV/m) 56.03 -5.65 50.38 74 / -5.65 / 54 53.41 -5.65 47.76 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 56.03 -5.65 50.38 74 -23.62 / -5.65 / 54 / 53.41 -5.65 47.76 74 -26.24

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

Vertical:

ESTATE OF THE STATE OF THE STAT	D UTESTING	- TEST	I	STAILS	ESTAILS	TESTA
Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	57.14	-5.65	51.49	74	-22.51	peak
2483.50	1	-5.65	O MIAN	54	1	AVG
2500.00	56.22	-5.65	50.57	74	-23.43	peak
2500.00	HUAKTESTI	-5.65	STING / HUAKTES	54	MAX TESTING	AVG

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

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=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	20dB Bandwidth (MHz)	Result
2420 MHz	1.156	PASS
2445 MHz	1.108	PASS
2465 MHz	0.9823	PASS

CH: 2420MHz



CH: 2445MHz



CH: 2465MHz





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 Internal Antenna, which permanently attached. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 0dBi.

ANTENNA



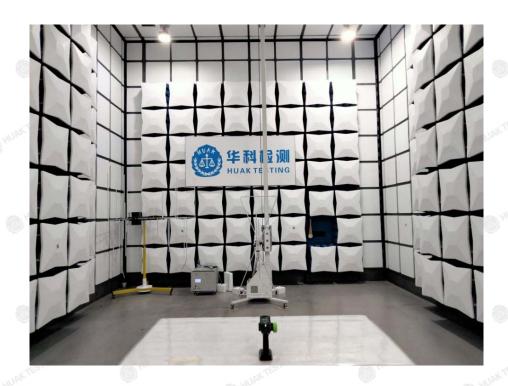
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8. PHOTOGRAPH OF TEST

Radiated Emission







9. PHOTOS OF THE EUT

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

End of test report-