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Report No.: UNIA2018110213FR-01

FCC RADIO TEST REPORT

FCC ID: 2ADXRCN-516

Product: Wireless remote controller

Trade Name: NiceFoto

Model Name: CN-516

Serial Model: N/A

Report No.: UNIA2018110213FR-01

Prepared for

ShenZhen Nice Photographic Equipment Co., Ltd.

Block2, Phoenix Industrial Area, Phoenix Rd.15, Pinghu, Longgang, Shenzhen, 518111, China

Prepared by

Shenzhen United Testing Technology Co., Ltd.

2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang Community, Xixiang Str, Bao'an District, Shenzhen, China





TEST RESULT CERTIFICATION

Applicant's name: ShenZhen Nice Photographic Equipment Co., Ltd.

Address:	Block2, Phoenix Industrial Area, Phoenix Rd.15, Pinghu,	
7.001000	Longgang, Shenzhen, 518111, China	
Manufacture's Name:	ShenZhen Nice Photographic Equipment Co., Ltd.	
Address:	Block2, Phoenix Industrial Area, Phoenix Rd.15, Pinghu, Longgang, Shenzhen, 518111, China	
Product description		
Product name:	Wireless remote controller	
Trade Mark:	NiceFoto	
Model and/or type reference :	CN-516	
Standards:	FCC Rules and Regulations Part 15 Subpart C Section 15.249 ANSI C63.10: 2013	
Co., Ltd., and the test results with the FCC requirements. A report. This report shall not be reprodocument may be altered or a	has been tested by Shenzhen United Testing Technology show that the equipment under test (EUT) is in compliant and it is applicable only to the tested sample identified in the duced except in full, without the written approval of UNI, the revised by Shenzhen United Testing Technology Co., Ltd noted in the revision of the document.	ce he his
Date of Test	<u>.</u>	
Date (s) of performance of tests.	: Nov. 02, 2018 ~ Nov. 20, 2018	
Date of Issue	: Nov. 20, 2018	
Test Result		
Prepared by:	Kaln Yang	
Reviewer:	Sternin acida	
	Sherwin Qian/Supervisor	
Approved & Authorized Signe	er:	
4	Liuze/Manager	





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1. TEST SUMMARY

1.1 TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST

CONDUCTED EMISSIONS TEST

RADIATED EMISSION TEST

BAND EDGE

OCCUPIED BANDWIDTH MEASUREMENT

ANTENNA REQUIREMENT

RESULT

N/A

COMPLIANT

COMPLIANT

COMPLIANT

COMPLIANT

1.2 TEST FACILITY

Test Firm : Shenzhen United Testing Technology Co., Ltd.

Address : 2F, Annex Bldg, Jiahuangyuan Tech Park, #365 Baotian 1 Rd, Tiegang

Community, Xixiang Str, Bao'an District, Shenzhen, China

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19. The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

CNAS-LAB Code: L6494

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of testing Laboratories.

Designation Number: CN1227

Test Firm Registration Number: 674885

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files.

1.3 MEASUREMENT UNCERTAINTY

Measurement Uncertainty

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



2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Wireless remote controller
Trade Mark	NiceFoto
Model Name	CN-516
Serial No.	N/A
Model Difference	N/A
FCC ID	2ADXRCN-516
Antenna Type	Internal Antenna
Antenna Gain	0dBi
Operation frequency	2403MHz-2481MHz
Number of Channels	14CH
Modulation Type	GFSK
Battery	AA Battery*2
Power Source	DC 3.0V of AA Battery*2
Adapter Model	N/A



2.2 Carrier Frequency of Channels

- 3	Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
01	2403	05	2432	09	2460	13	2478	
02	2408	06	2436	10	2466	14	2481	
03	2420	07	2450	11	2468	5		
04	2425	08	2452	12	2470			

2.3 Operation of EUT during testing

Operating Mode

The mode is used: Transmitting mode

Low Channel: 2403MHz Middle Channel: 2436MHz High Channel: 2481MHz

2.4 DESCRIPTION OF TEST SETUP

Operation of EUT during Radiation testing:

EUT

Table for auxiliary equipment:

Equipment Description Manufacturer		Model	Calibration Due Date
Battery	Nanfu	AA	N/A



2.5 MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
		CONDUCTED	EMISSIONS TEST		•
1	AMN	Schwarzbeck	NNLK8121	8121370	2019.9.9
2	AMN	ETS	3810/2	00020199	2019.9.9
3	EMI TEST RECEIVER	Rohde&Schwarz	ESCI	101210	2019.9.9
4	AAN	TESEQ	T8-Cat6	38888	2019.9.9
	, Fil	RADIATED I	EMISSION TEST		
1	Horn Antenna	Sunol	DRH-118	A101415	2019.9.29
2	BicoNlLog Antenna	Sunol	JB1 Antenna	A090215	2019.9.29
3	PREAMP	HP	8449B	3008A00160	2019.9.9
4	PREAMP	HP	8447D	2944A07999	2019.9.9
5	EMI TEST RECEIVER	Rohde&Schwarz	ESR3	101891	2019.9.9
6	VECTOR Signal Generator	Rohde&Schwarz	SMU200A	101521	2019.9.28
7	Signal Generator	Agilent	E4421B	MY4335105	2019.9.28
8	MXA Signal Analyzer	Agilent	N9020A	MY50510140	2019.9.28
9	MXA Signal Analyzer	Agilent	N9020A	MY51110104	2019.9.9
10	ANT Tower&Turn table Controller	Champro	EM 1000	60764	2019.9.28
11	Anechoic Chamber	Taihe Maorui	9m*6m*6m	966A0001	2019.9.9
12	Shielding Room	Taihe Maorui	6.4m*4m*3m	643A0001	2019.9.9
13	RF Power sensor	DARE	RPR3006W	15l00041SNO88	2019.3.14
14	RF Power sensor	DARE	RPR3006W	15l00041SNO89	2019.3.14
15	RF power divider	Anritsu	K241B	992289	2019.9.28
16	Wideband radio communication tester	Rohde&Schwarz	CMW500	154987	2019.9.28
17	Biconical antenna	Schwarzbeck	VHA 9103	91032360	2019.9.8
18	Biconical antenna	Schwarzbeck	VHA 9103	91032361	2019.9.8
19	Broadband Hybrid Antennas	Schwarzbeck	VULB9163	VULB9163#958	2019.9.8
20	Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1680	2019.1.12
21	Active Receive Loop Antenna	Schwarzbeck	FMZB 1919B	00023	2019.11.02
22	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170651	2019.03.14
23	Microwave Broadband Preamplifier	Schwarzbeck	BBV 9721	100472	2019.10.24
24	Active Loop Antenna	Com-Power	AL-130R	10160009	2019.05.10
25	Power Meter	KEYSIGHT	N1911A	MY50520168	2019.05.10
26	Frequency Meter	VICTOR	VC2000	997406086	2019.05.10
27	DC Power Source	HYELEC	HY5020E	055161818	2019.05.10



3. CONDUCTED EMISSIONS TEST

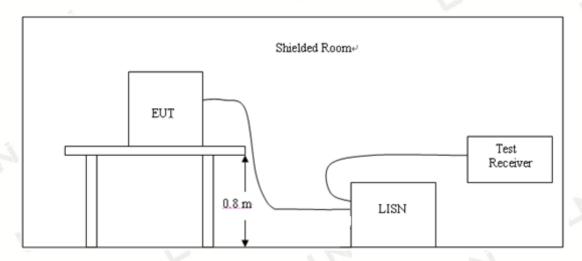
3.1 Conducted Power Line Emission Limit

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

_	Maximum RF Line Voltage(dBμV)					
Frequency (MHz)	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



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 placed on 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

N/A

Remark: The EUT is powered by DC 3.0V of two AA batteries.



4 RADIATED EMISSION TEST

4.1 Radiation Limit

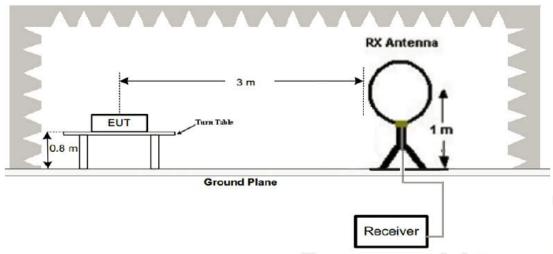
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

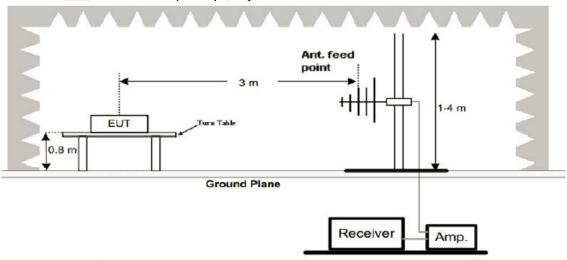
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

1. Radiated Emission Test-Up Frequency Below 30MHz

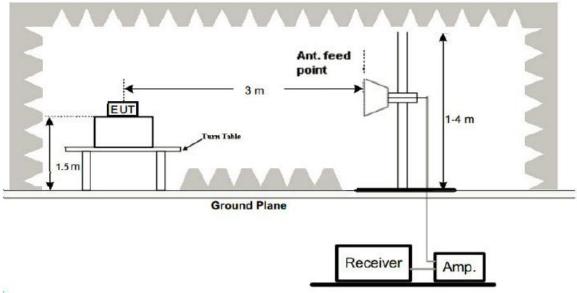


2. Radiated Emission Test-Up Frequency 30MHz~1GHz





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

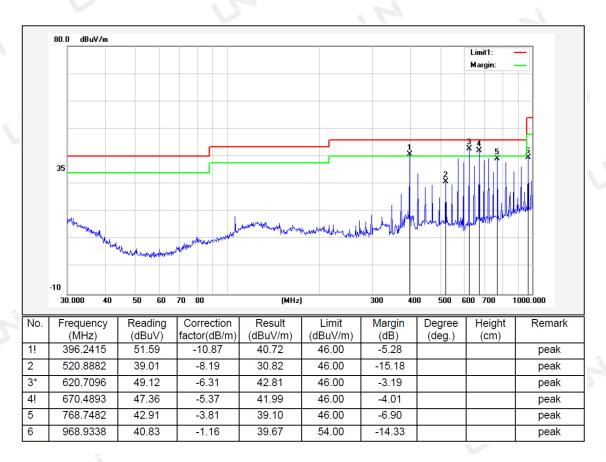
Remark:

- 1. All modes were tested, only the worst result of the low channel 2403MHz was reported.
- 2. By preliminary testing and verifying three axis (X, Y and Z) position of EUT transmitted status, it was found that "Z axis" position was the worst, and test data recorded in this report.
- 3. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9KHz to 30MHz and not recorded in this report.



Below 1GHz Test Results:

Temperature:	22°C	Relative Humidity:	48%
Test Date:	Nov. 08, 2018	Pressure:	1010hPa
Test Voltage:	DC 3.0V	Polarization:	Horizontal
Test Mode:	Transmitting mode of 2403MHz		

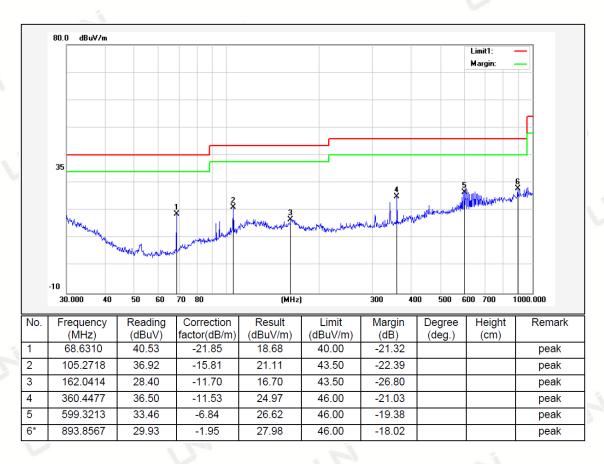


Remark: Absolute Level = Reading Level + Factor, Margin = Absolute Level – Limit Factor = Ant. Factor + Cable Loss – Pre-amplifier





Temperature:	22°C	Relative Humidity:	48%
Test Date:	Nov. 08, 2018	Pressure:	1010hPa
Test Voltage:	DC 3.0V	Polarization:	Vertical
Test Mode:	Transmitting mode of 2403MHz	V.	7.



Remark: Absolute Level = Reading Level + Factor, Margin = Absolute Level - Limit Factor = Ant. Factor + Cable Loss - Pre-amplifier

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 Low (2403MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2403	111.85	-5.84	106.01	114	-7.99	PK
2403	83.13	-5.84	77.29	94	-16.71	AV
4806	62.52	-3.64	58.88	74	-15.12	PK
4806	51.32	-3.64	47.68	54	-6.32	AV
7209	57.25	-0.95	56.30	74	-17.70	PK
7209	47.56	-0.95	46.61	54	-7.39	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2403	111.73	-5.84	105.89	114	-8.11	PK
2403	83.05	-5.84	77.21	94	-16.79	AV
4806	62.42	-3.64	58.78	74	-15.22	PK
4806	51.25	-3.64	47.61	54	-6.39	AV
7209	58.69	-0.95	57.74	74	-16.26	PK
7209	47.44	-0.95	46.49	54	-7.51	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit



CH Middle (2436MHz)

Horizontal:

Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
111.44	-5.71	105.73	114	-8.27	PK
83.05	-5.71	77.34	94	-16.66	AV
61.05	-3.51	57.54	74	-16.46	PK
50.62	-3.51	47.11	54	-6.89	AV
58.12	-0.82	57.30	74	-16.70	PK
47.15	-0.82	46.33	54	-7.67	AV
	Result (dBµV) 111.44 83.05 61.05 50.62 58.12	Result (dBµV) (dB) 111.44 -5.71 83.05 -5.71 61.05 -3.51 50.62 -3.51 58.12 -0.82	Result Factor Emission Level (dB μV) (dB) (dB μV/m) 111.44 -5.71 105.73 83.05 -5.71 77.34 61.05 -3.51 57.54 50.62 -3.51 47.11 58.12 -0.82 57.30	Result Factor Emission Level Limits (dB μV) (dB) (dB μV/m) (dB μV/m) 111.44 -5.71 105.73 114 83.05 -5.71 77.34 94 61.05 -3.51 57.54 74 50.62 -3.51 47.11 54 58.12 -0.82 57.30 74	Result Factor Emission Level Limits Margin (dB μV) (dB) (dB μV/m) (dB μV/m) (dB) 111.44 -5.71 105.73 114 -8.27 83.05 -5.71 77.34 94 -16.66 61.05 -3.51 57.54 74 -16.46 50.62 -3.51 47.11 54 -6.89 58.12 -0.82 57.30 74 -16.70

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2436	111.25	-5.71	105.54	114	-8.46	PK
2436	82.32	-5.71	76.61	94	-17.39	AV
4872	61.49	-3.51	57.98	74	-16.02	PK
4872	51.06	-3.51	47.55	54	-6.45	AV
7308	57.95	-0.82	57.13	74	-16.87	PK
7308	46.95	-0.82	46.13	54	-7.87	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit



Reading Result	Factor	Emission Level	Limits	Margin	Detector
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
110.86	-5.65	105.21	114	-8.79	PK
83.05	-5.65	77.40	94	-16.60	AV
60.48	-3.43	57.05	74	-16.95	PK
50.12	-3.43	46.69	54	-7.31	AV
57.64	-0.75	56.89	74	-17.11	PK
46.66	-0.75	45.91	54	-8.09	AV
	Result (dB µV) 110.86 83.05 60.48 50.12 57.64	Result Factor (dBμV) (dB) 110.86 -5.65 83.05 -5.65 60.48 -3.43 50.12 -3.43 57.64 -0.75	Result Factor Emission Level (dBμV) (dB) (dBμV/m) 110.86 -5.65 105.21 83.05 -5.65 77.40 60.48 -3.43 57.05 50.12 -3.43 46.69 57.64 -0.75 56.89	Result Factor Emission Level Limits (dB μV) (dB) (dB μV/m) (dB μV/m) 110.86 -5.65 105.21 114 83.05 -5.65 77.40 94 60.48 -3.43 57.05 74 50.12 -3.43 46.69 54 57.64 -0.75 56.89 74	Result Factor Emission Level Limits Margin (dB μV) (dB) (dB μV/m) (dB μV/m) (dB) 110.86 -5.65 105.21 114 -8.79 83.05 -5.65 77.40 94 -16.60 60.48 -3.43 57.05 74 -16.95 50.12 -3.43 46.69 54 -7.31 57.64 -0.75 56.89 74 -17.11

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - Limit

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2481	111.12	-5.65	105.47	114	-8.53	PK
2481	83.52	-5.65	77.87	94	-16.13	AV
4962	61.11	-3.43	57.68	74	-16.32	PK
4962	50.49	-3.43	47.06	54	-6.94	AV
7443	57.04	-0.75	56.29	74	-17.71	PK
7443	46.72	-0.75	45.97	54	-8.03	AV

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier. Margin = Absolute Level - 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) Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (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 20 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 100KHz and VBM to 300KHz 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 100 KHz and VBW to 300 KHz, to measure the conducted peak band edge.

5.3 Test Result

PASS

Radiated Band Edge Test:

Operation Mode: TX CH Low (2403MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
2310	57.23	-5.81	51.42	74	-22.58	PK
2310	1	-5.81		54	1	AV
2390	56.64	-5.84	50.80	74	-23.20	PK
2390	/	-5.84	/	54	1	AV
2400	55.38	-5.84	49.54	74	-24.46	PK
2400	/	-5.84	/	54	/	AV

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2310	56.87	-5.81	51.06	74	-22.94	PK
2310	/	-5.81	/	54	1	AV
2390	57.03	-5.84	51.19	74	-22.81	PK
2390	/	-5.84	1	54		AV
2400	55.95	-5.84	50.11	74	-23.89	PK
2400	1	-5.84	/	54	/	AV

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



Operation Mode: TX CH High (2481MHz)

Horizontal:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре	
2483.5	56.65	-5.65	51.00	74	-23.00	PK	
2483.5	1	-5.65	1	54	/	AV	
2500	55.42	-5.72	49.70	74	-24.30	PK	
2500		-5.72	1	54	/	AV	
Remark: Fact	Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

Vertical:

Frequency	Reading Result	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
2483.5	56.87	-5.65	51.22	74	-22.78	PK
2483.5	12/	-5.65	/	54	/	AV
2500	55.36	-5.72	49.64	74	-24.36	PK
2500	1	-5.72	/	54	/	AV

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

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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=30KHz, VBW=100KHz, Span=2MHz.
- 4. The useful radiated emission from the EUT was detected by the spectrum analyzer with peak detector.

6.3 Measurement Equipment Used

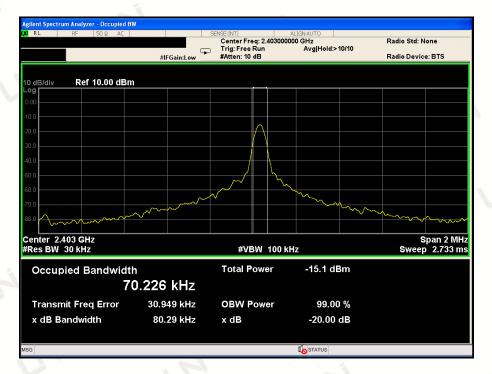
Same as Radiated Emission Measurement

6.4 Test Result

PASS

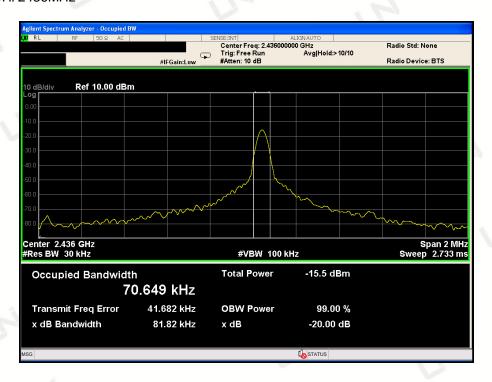
Frequency (MHz)	20dB Bandwidth (MHz)	Result
2403	0.080	PASS
2436	0.082	PASS
2481	0.081	PASS

CH: 2403MHz

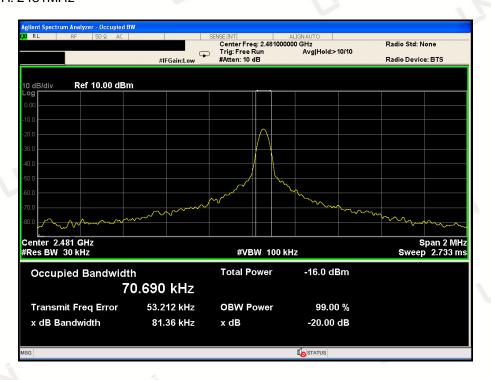




CH: 2436MHz



CH: 2481MHz



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7 ANTENNA REQUIREMENT

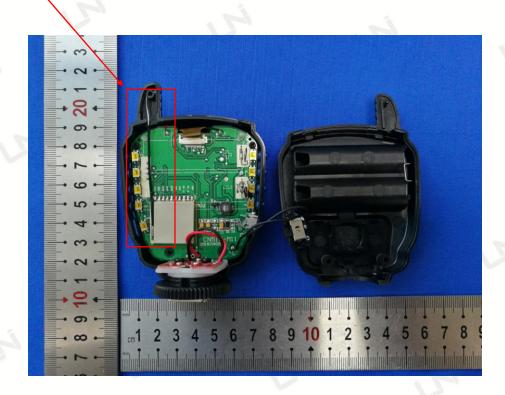
Standard Applicable:

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 an Internal Antenna. The directional gains of antenna used for transmitting is 0dBi.

ANTENNA:



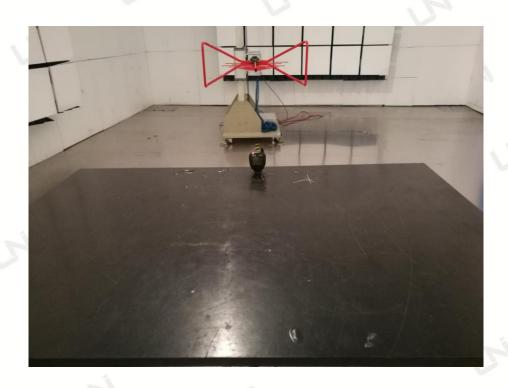
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8 PHOTOGRAPH OF TEST

8.1 Radiated Emission









N/A

End of Report