

FCC TEST REPORT

**Test report
On Behalf of
Shenzhen Xingjisheng Electronics Co., Ltd
For
Bluetooth Speaker
Model No.: Kra4059**

FCC ID: 2AEUC-KRA4059

Prepared for : Shenzhen Xingjisheng Electronics Co., Ltd
Building B3a, Yingzhan Industrial Park, Kengzi Town, Pingshan
New District, Shenzhen, China

Prepared By : WST Certification & Testing (HK) Limited
12/F., San Toi Building, 137-139 Connaught Road Central, Hong Kong

Date of Test: Mar. 08, 2016 ~ Mar. 12, 2016

Date of Report: Mar. 12, 2016

Report Number: WST160303009-E

TEST RESULT CERTIFICATION

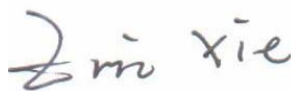
Applicant's name : Shenzhen Xingjisheng Electronics Co., Ltd
Address : Building B3a, Yingzhan Industrial Park, Kengzi Town, Pingshan
New District, Shenzhen, China
Manufacture's Name : Shenzhen Xingjisheng Electronics Co., Ltd
Address : Building B3a, Yingzhan Industrial Park, Kengzi Town, Pingshan
New District, Shenzhen, China

Product description

Trade Mark: N/A
Product name : Bluetooth Speaker
Model and/or type reference : Kra4059
Standards : FCC Rules and Regulations Part 15 Subpart C Section 15.249
ANSI C63.10: 2013

This publication may be reproduced in whole or in part for non-commercial purposes as long as the WST Certification & Testing (HK) Limited is acknowledged as copyright owner and source of the material. WST Certification & Testing (HK) Limited takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Date of Test :
Date (s) of performance of tests : Mar. 08, 2016 ~ Mar. 12, 2016
Date of Issue : Mar. 12, 2016
Test Result : Pass

Testing Engineer : 
(Eric Xie)

Technical Manager : 
(Dora Qin)

Authorized Signatory : 
(Kait Chen)

Table of Contents	Page
1 . TEST SUMMARY	4
2 . GENERAL INFORMATION	5
2.1 GENERAL DESCRIPTION OF EUT	5
2.2 OPERATION OF EUT DURING TESTING	6
2.3 DESCRIPTION OF TEST SETUP	6
2.4 MEASUREMENT INSTRUMENTS LIST	7
3 . CONDUCTED EMISSIONS TEST	9
3.1 Conducted Power Line Emission Limit	9
3.2 Test Setup	9
3.3 Test Procedure	9
3.4 Test Result	9
4 RADIATED EMISSION TEST	12
4.1 Radiation Limit	12
4.2 Test Setup	12
4.3 Test Procedure	13
4.4 Test Result	13
5 BAND EDGE	18
5.1 Limits	18
5.2 Test Procedure	18
5.3 Test Result	18
6 OCCUPIED BANDWIDTH MEASUREMENT	19
6.1 Test Setup	19
6.2 Test Procedure	19
6.3 Measurement Equipment Used	19
6.4 Test Result	19
7 ANTENNA REQUIREMENT	21
8 PHOTOGRAPH OF TEST	22
8.1 Radiated Emission	22
8.2 Conducted Emission	23

1.. TEST SUMMARY

1.1. TEST PROCEDURES AND RESULTS

DESCRIPTION OF TEST	RESULT
CONDUCTED EMISSIONS TEST	COMPLIANT
RADIATED EMISSION TEST	COMPLIANT
BAND EDGE	COMPLIANT
OCCUPIED BANDWIDTH MEASUREMENT	COMPLIANT
ANTENNA REQUIREMENT	COMPLIANT

1.2. TEST FACILITY

Test Firm : Shenzhen WST Testing Technology Co., Ltd.
Certificated by FCC, Registration No.: 939433
Address : 1F,No.9 Building,TGK Science & Technology Park,Yangtian Rd.,
NO.72 Bao'an Dist., Shenzhen,Guangdong,China. 518101
Tel : (86)755-33916437
Fax : (86)755-27822175

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	Bluetooth Speaker
Model Name	Kra4059
Serial No	/
Model Difference	/
FCC ID	2AEUC-KRA4059
Antenna Type	Internal Antenna
Antenna gain	0dBi
BT Operation frequency	2402-2480MHz
Number of Channels	40CH
Modulation Type	GFSK
Power Source	DC Voltage
Power Rating	DC24V, 2.5A from AC adapter Input:100-240V~, 50/60Hz, 1.5A, output:DC24V, 2.5A
Adapter Model	BYX-2402500

2.1.1. Carrier Frequency of Channels

Channel List							
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2402	11	2422	21	2442	31	2462
02	2404	12	2424	22	2444	32	2464
03	2406	13	2426	23	2446	33	2466
04	2408	14	2428	24	2448	34	2468
05	2410	15	2430	25	2450	35	2470
06	2412	16	2432	26	2452	36	2472
07	2414	17	2434	27	2454	37	2474
08	2416	18	2436	28	2456	38	2476
09	2418	19	2438	29	2458	39	2478
10	2420	20	2440	30	2460	40	2480

2.2. OPERATION OF EUT DURING TESTING

Operating Mode

The mode is used: **Transmitting mode**

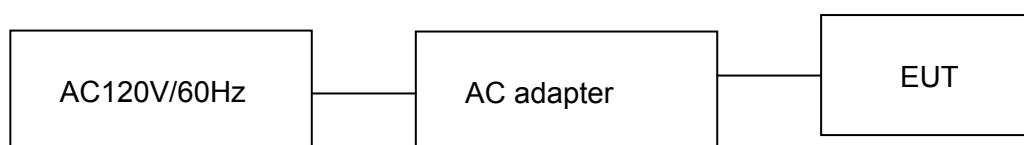
Low Channel: 2402MHz

Middle Channel: 2442MHz

High Channel: 2480MHz

2.3. DESCRIPTION OF TEST SETUP

Operation of EUT during testing



2.4. MEASUREMENT INSTRUMENTS LIST

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Receiver	Rohde & Schwarz	ESCI	100627	May 19, 2015	1 Year
2.	LISN	SchwarzBeck	NSLK 8126	8126377	May 19, 2015	1 Year
3.	RF Switching Unit	Compliance Direction	RSU-M2	38303	May 19, 2015	1 Year
4.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
5.	EMI Test Receiver	Rohde & Schwarz	ESCI	100627	May 19, 2015	1 Year
6.	Trilog Broadband Antenna	Schwarzbeck	VULB9163	VULB 9163-289	May 17, 2015	1 Year
7.	Pre-amplifier	Compliance Direction	PAP-0203	22008	May 19, 2015	1 Year
8.	EMI Test Software EZ-EMC	SHURPLE	N/A	N/A	N/A	N/A
9.	EMI Receiver	Rohde & Schwarz	ESCI	100627	May 19, 2015	1 Year
10.	LISN	SchwarzBeck	NSLK 8126	8126377	May 19, 2015	1 Year
11.	RF Switching Unit	Compliance Direction	RSU-M2	38303	May 19, 2015	1 Year
12.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
13.	EMI Receiver	Rohde & Schwarz	ESCI	100627	May 19, 2015	1 Year
14.	EMI Receiver	Rohde & Schwarz	ESCI	100627	May 19, 2015	1 Year
15.	LISN	SchwarzBeck	NSLK 8126	8126377	May 19, 2015	1 Year
16.	RF Switching Unit	Compliance Direction	RSU-M2	38303	May 19, 2015	1 Year
17.	EMI Test Software ES-K1	Rohde & Schwarz	N/A	N/A	N/A	N/A
18.	Programmable AC Power source	SOPH POWER	PAG-1050	630250	May 26, 2015	1 Year
19.	Harmonic and Flicker Analyzer	LAPLACE	AC2000A	272629	May 26, 2015	1 Year
20.	Harmonic and Flicker Test Software AC 2000A	LAPLACE	N/A	N/A	N/A	N/A
21.	ESD Simulators	KIKUSUI	KES4021	LJ003477	May 25, 2015	1 Year
22.	EFT Generator	EMPEK	EFT-4040B	0430928N	May 19, 2015	1 Year
23.	Shielding Room	ChangZhou ZhongYu	JB88	SEL0166	May 19, 2015	1 Year
24.	Signal Generator 9KHz~2.2GHz	R&S	SML02	SEL0143	May 19, 2015	1 Year
25.	Signal Generator 9KHz~1.1GHz	R&S	SML01	SEL0135	May 19, 2015	1 Year
26.	Power Meter	R&S	NRVS	SEL0144	May 19, 2015	1 Year
27.	RF Level Meter		URV35	SEL0137	May 19, 2015	1 Year
28.	Audio Analyzer	R&S	UPL	SEL0136	May 19, 2015	1 Year
29.	RF-Amplifier 150KHz~150MHz	BONN Elektronik	BSA1515-25	SEL0157	May 19, 2015	1 Year

30.	Stripline Test Cell	Erika Fiedler	VDE0872	SEL0167	N/A	N/A
31.	TV Test Transmitter	R&S	SFM	SEL0159	May 17, 2015	1 Year
32.	TV Generator PAL	R&S	SGPF	SEL0138	May 19, 2015	1 Year
33.	TV Generator Ntsc	R&S	SGMF	SEL0140	May 19, 2015	1 Year
34.	TV Generator Secam	R&S	SGSF	SEL0139	May 19, 2015	1 Year
35.	TV Test Transmitter 0.3MHz~3300MHz	R&S	SFQ	SEL0142	May 19, 2015	1 Year
36.	MPEG2 Measurement Generator	R&S	DVG	SEL0141	May 19, 2015	1 Year
37.	Spectrum Analyzer	R&S	FSP	SEL0177	May 19, 2015	1 Year
38.	Matching	R&S	RAM	SEL0146	N/A	N/A
39.	Matching	R&S	RAM	SEL0148	N/A	N/A
40.	Absorbing Clamp	R&S	MDS21	SEL0158	May 17, 2015	1 Year
41.	Coupling Set	Erika Fiedler	Rco, Rci, MC, AC, LC	SEL0149	N/A	N/A
42.	Filters	Erika Fiedler	Sr, LBS	SEL0150	N/A	N/A
43.	Matching Network	Erika Fiedler	MN, T1	SEL0151	N/A	N/A
44.	Fully Anechoic Room	ChangZhou ZhongYu	854	SEL0169	Jun. 10, 2015	1 Year
45.	Signal Generator	R&S	SML03	SEL0068	May 17, 2015	1 Year
46.	RF-Amplifier 30M~1GHz	Amplifier Reasearch	250W1000A	SEL0066	Oct. 24, 2015	1 Year
47.	RF-Amplifier 0.8~3.0GHz	Amplifier Reasearch	60S1G3	SEL0065	Oct. 24, 2015	1 Year
48.	Power Meter	R&S	NRVD	SEL0069	May 17, 2015	1 Year
49.	Power Sensor	R&S	URV5-Z2	SEL0071	May 17, 2015	1 Year
50.	Power Sensor	R&S	URV5-Z2	SEL0072	May 17, 2015	1 Year
51.	Software EMC32	R&S	EMC32-S	SEL0082	N/A	N/A
52.	Log-periodic Antenna	Amplifier Reasearch	AT1080	SEL0073	N/A	N/A
53.	Antenna Tripod	Amplifier Reasearch	TP1000A	SEL0074	N/A	N/A
54.	High Gain Horn Antenna(0.8-5G Hz)	Amplifier Reasearch	AT4002A	SEL0075	N/A	N/A

3.. CONDUCTED EMISSIONS TEST

3.1 Conducted Power Line Emission Limit

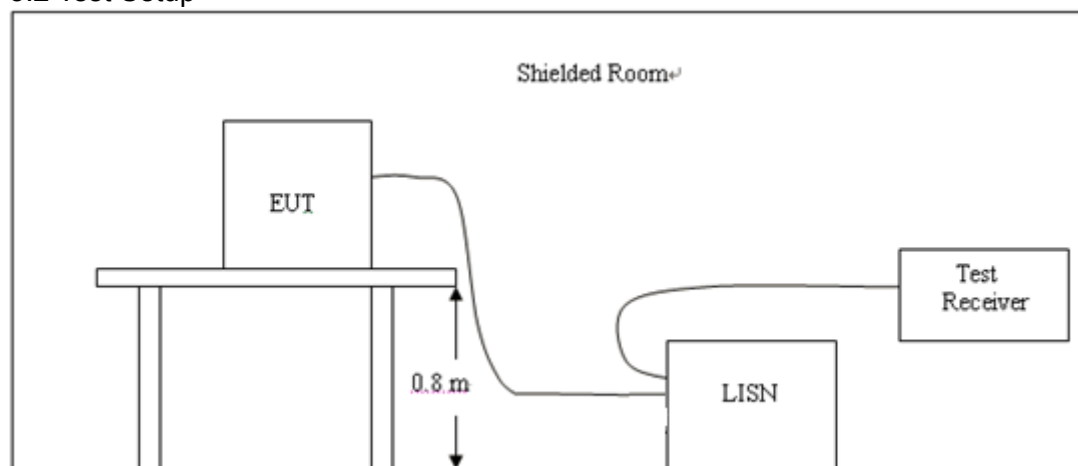
For unintentional device, according to § 15.107(a) Line Conducted Emission Limits is as following

Frequency (MHz)	Maximum RF Line Voltage (dBμV)			
	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

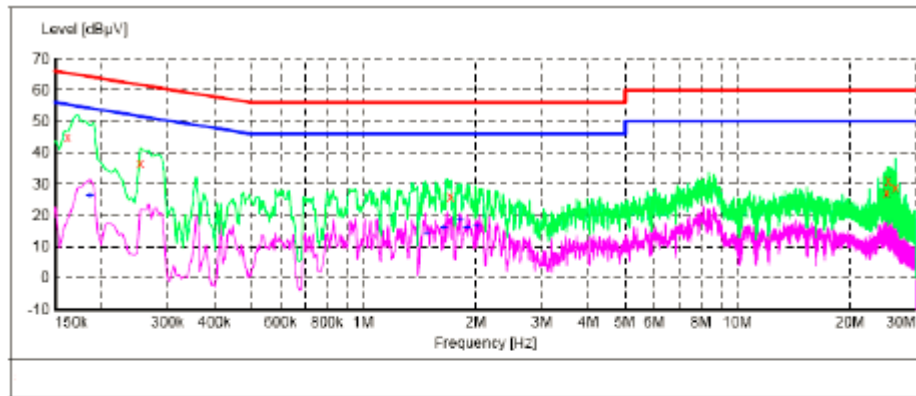


3.3 Test Procedure

- 1, The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is 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

PASS

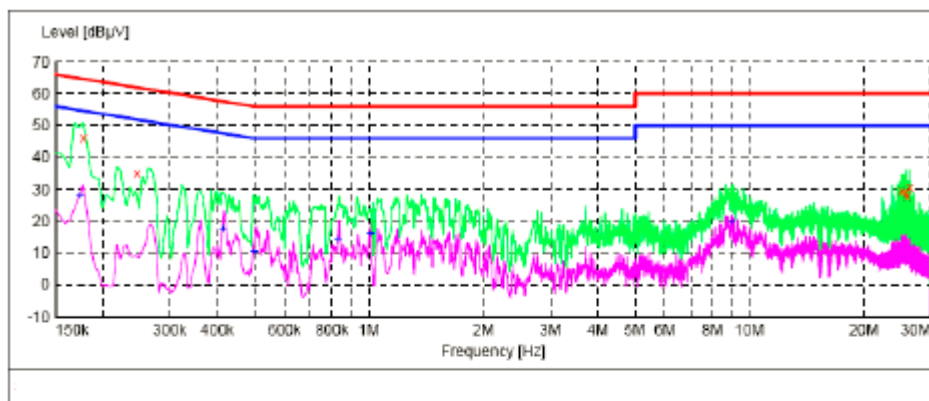


MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	FE
0.162000	44.70	10.2	65	20.7	QP	N	GND
0.254000	36.60	10.2	62	25.0	QP	N	GND
1.712000	26.00	10.3	56	30.0	QP	N	GND
25.094000	26.90	11.1	60	33.1	QP	N	GND
25.328000	30.90	11.1	60	29.1	QP	N	GND
26.408000	29.70	11.2	60	31.3	QP	N	GND

MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	FE
0.196000	26.20	10.2	54	28.0	AV	N	GND
1.478000	14.60	10.3	46	31.4	AV	N	GND
1.640000	16.20	10.3	46	29.8	AV	N	GND
1.614000	16.60	10.3	46	27.4	AV	N	GND
1.898000	16.00	10.3	46	30.0	AV	N	GND
2.012000	16.40	10.4	46	29.6	AV	N	GND



MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.178000	46.10	10.2	65	18.5	QP	L1	GND
0.246000	35.20	10.2	62	26.7	QP	L1	GND
25.069000	29.50	11.1	60	30.5	QP	L1	GND
25.754000	28.90	11.1	60	31.1	QP	L1	GND
25.928000	27.80	11.1	60	32.2	QP	L1	GND
26.414000	30.70	11.2	60	29.3	QP	L1	GND

MEASUREMENT RESULT:

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.174000	27.90	10.2	55	27.0	AV	L1	GND
0.414000	17.40	10.2	48	30.2	AV	L1	GND
0.500000	10.50	10.2	46	35.5	AV	L1	GND
0.830000	14.30	10.2	46	31.7	AV	L1	GND
1.010000	16.20	10.3	46	29.8	AV	L1	GND
8.978000	19.50	10.6	50	30.5	AV	L1	GND

4 RADIATED EMISSION TEST

4.1 Radiation Limit

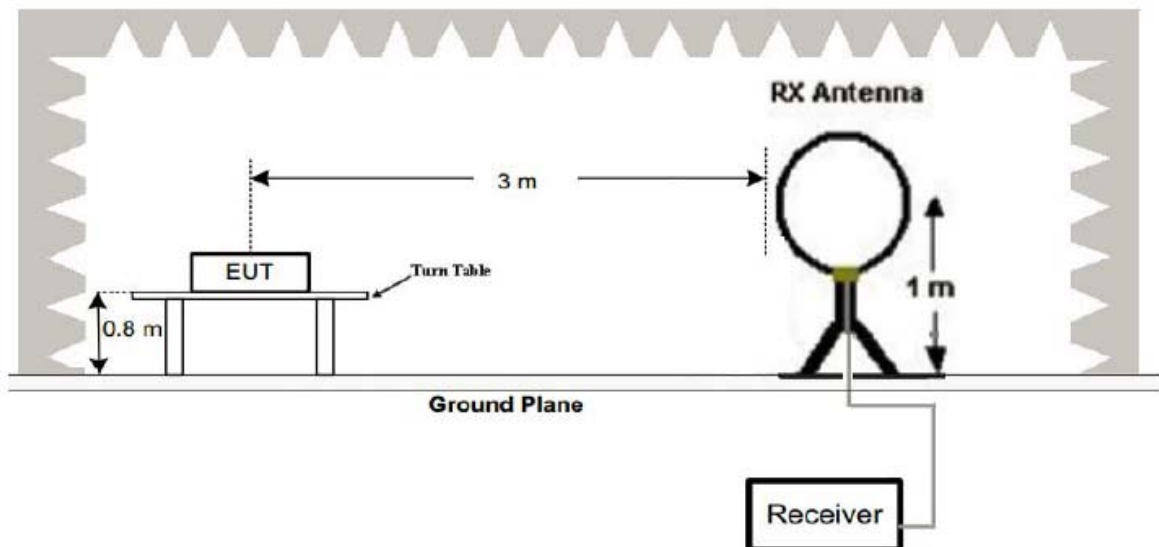
For unintentional device, according to § 15.109(a), except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

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

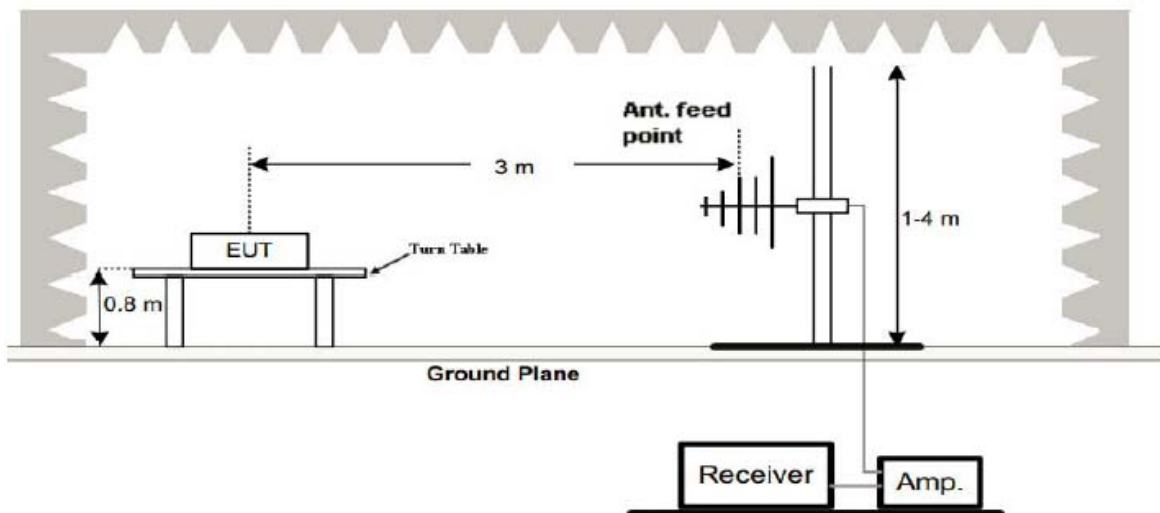
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

4.2 Test Setup

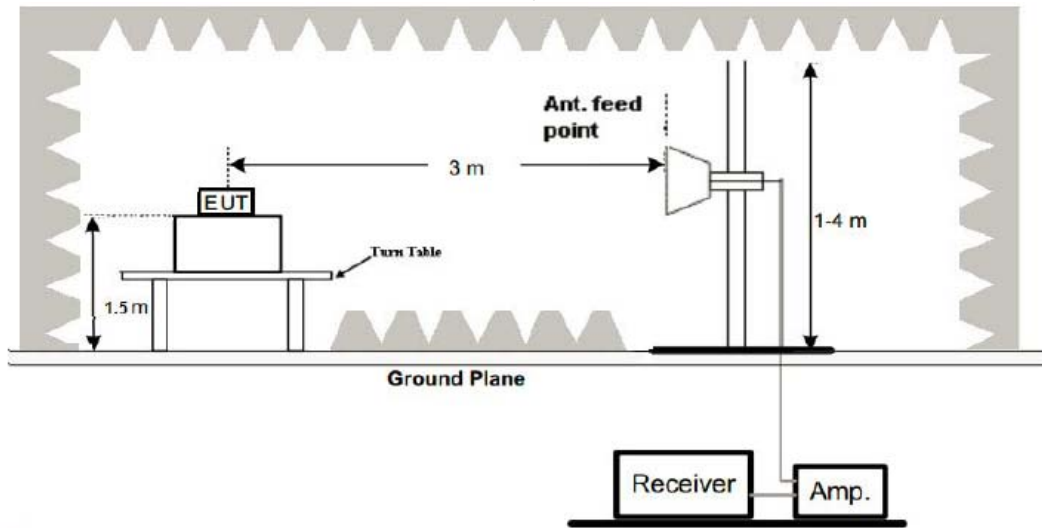
(1) Radiated Emission Test-Up Frequency Below 30MHz



(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:

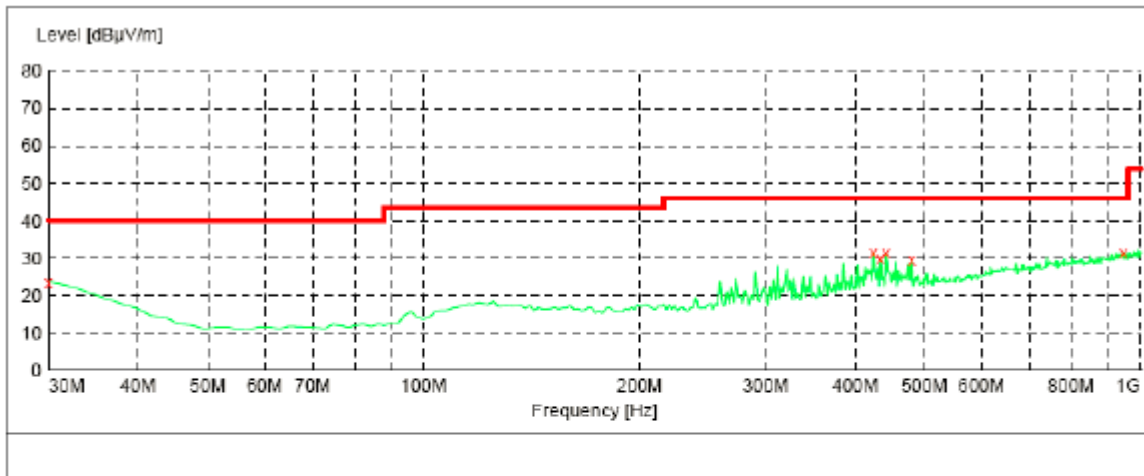
For battery operated equipment, the equipment tests shall be performed using a new battery.

4.4 Test Result

PASS

All the test modes completed for test. The worst case of Radiated Emission is CH 2402; the test data of this mode was reported.

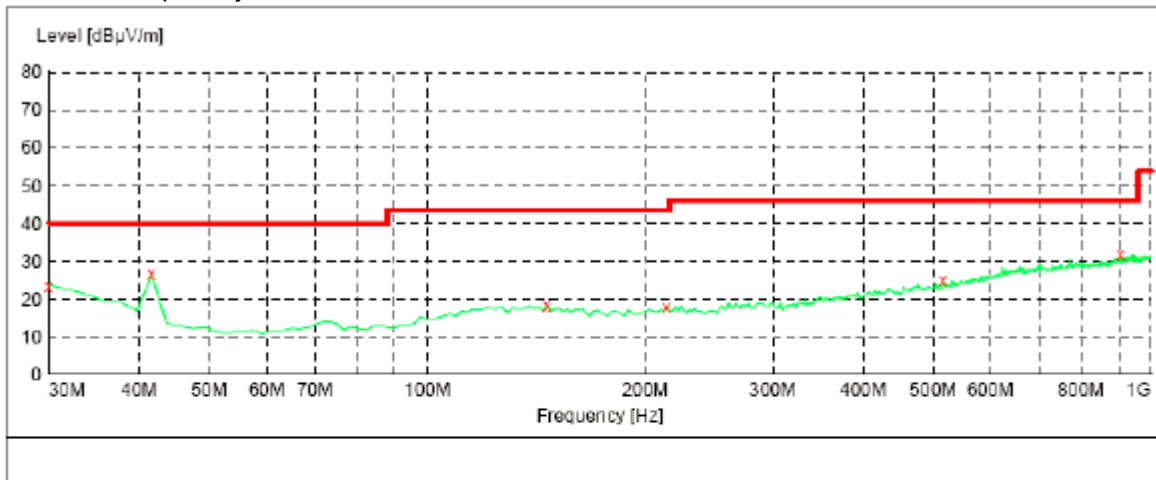
Below 1GHz Test Results:
Antenna polarity: H



MEASUREMENT RESULT:

Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	23.60	21.1	40.0	16.4	---	0.0	0.00	HORIZONTAL
423.820000	31.40	18.8	46.0	14.6	---	0.0	0.00	HORIZONTAL
433.520000	30.00	19.0	46.0	16.0	---	0.0	0.00	HORIZONTAL
441.280000	31.30	19.1	46.0	14.7	---	0.0	0.00	HORIZONTAL
480.080000	29.50	20.1	46.0	16.5	---	0.0	0.00	HORIZONTAL
947.620000	31.60	26.6	46.0	14.4	---	0.0	0.00	HORIZONTAL

Antenna polarity: V



MEASUREMENT RESULT:

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Asimuth deg	Polarization
30.000000	23.60	21.1	40.0	16.4	---	0.0	0.00	VERTICAL
41.640000	26.50	12.5	40.0	13.5	---	0.0	0.00	VERTICAL
146.400000	18.40	14.3	43.5	25.1	---	0.0	0.00	VERTICAL
214.300000	17.80	14.3	43.5	25.7	---	0.0	0.00	VERTICAL
515.000000	25.20	20.5	46.0	20.8	---	0.0	0.00	VERTICAL
906.880000	31.70	26.2	46.0	14.3	---	0.0	0.00	VERTICAL

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:

Lower Channel 2402MHz	Freq.	Receiver Reading	Detector	Polar	Corrected Factor	Emission Level	Limit	Result
	(MHz)	(dBμV)	(PK/QP/Ave)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	
	2402.00	103.41	PK	H	1.31	104.72	114.00	Pass
	2402.00	89.16	Ave	H	1.31	90.47	94.00	Pass
	4804.00	57.86	PK	H	-1.06	56.80	74.00	Pass
	4804.00	48.86	Ave	H	-1.06	47.80	54.00	Pass
	2402.00	102.34	PK	V	1.31	103.65	114.00	Pass
	2402.00	88.44	Ave	V	1.31	89.75	94.00	Pass
	4804.00	58.87	PK	V	-1.06	57.81	74.00	Pass
	4804.00	47.36	Ave	V	-1.06	46.30	54.00	Pass

Middle Channel 2442MHz	2442.00	103.27	PK	H	0.85	104.12	114.00	Pass
	2442.00	88.69	Ave	H	0.85	89.54	94.00	Pass
	4884.00	54.69	PK	H	-0.62	54.07	74.00	Pass
	4884.00	43.82	Ave	H	-0.62	43.20	54.00	Pass
	2442.00	103.18	PK	V	0.85	104.03	114.00	Pass
	2442.00	88.06	Ave	V	0.85	88.91	94.00	Pass
	4884.00	55.60	PK	V	-0.62	54.98	74.00	Pass
	4884.00	44.89	Ave	V	-0.62	44.27	54.00	Pass

Upper Channel 2480MHz	2480.00	103.48	PK	H	0.53	104.01	114.00	Pass
	2480.00	88.77	Ave	H	0.53	89.30	94.00	Pass
	4960.00	52.79	PK	H	-0.24	52.55	74.00	Pass
	4960.00	43.72	Ave	H	-0.24	43.48	54.00	Pass
	2480.00	102.63	PK	V	0.53	103.16	114.00	Pass
	2480.00	88.03	Ave	V	0.53	88.56	94.00	Pass
	4960.00	54.99	PK	V	-0.24	54.75	74.00	Pass
	4960.00	43.93	Ave	V	-0.24	43.69	54.00	Pass

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.
- (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.

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 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

Frequency (MHz)	Antenna polarization (H/V)	Emission (dBuV/m)	Band edge Limit (dBuV/m)		Result
		PK	PK	AV	Pass
<2400	H	49.85	74.00	54.00	Pass
<2400	V	49.12	74.00	54.00	Pass
>2483.5	H	49.00	74.00	54.00	Pass
>2483.5	V	49.56	74.00	54.00	Pass

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 1.5m above ground plane.
2. Set EUT as normal operation.
3. Based on FCC Part15 C Section 15.239(a): RBW= 10KHz. VBW= 30 KHz, Span=1MHz.
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

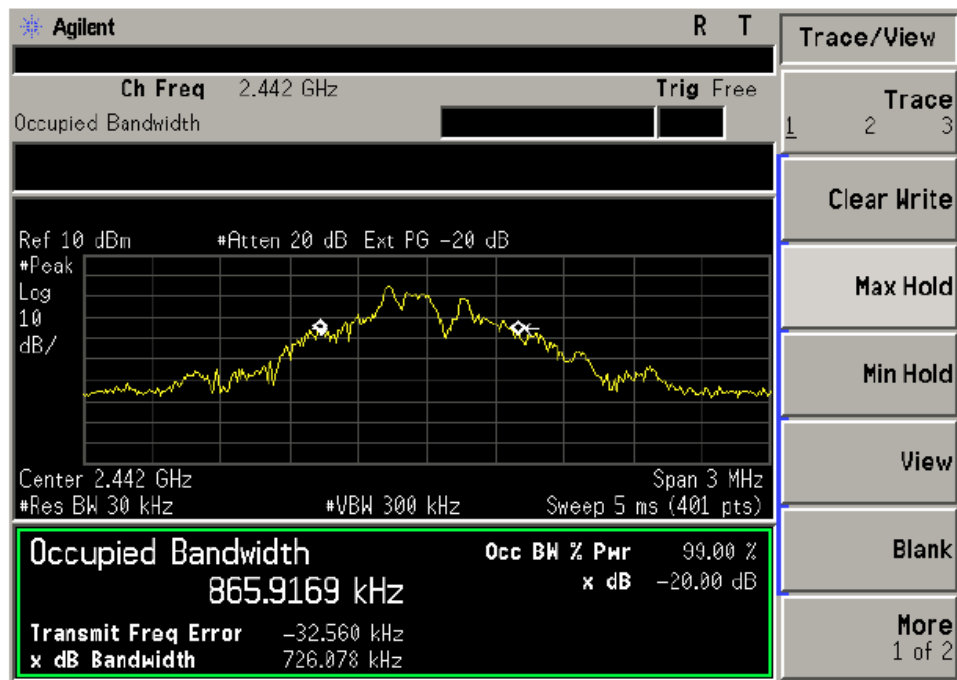
6.4 Test Result

PASS

CH: 2402MHz



CH: 2442MHz



CH: 2480MHz



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. And according to FCC 47 CFR Section 15.249, if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

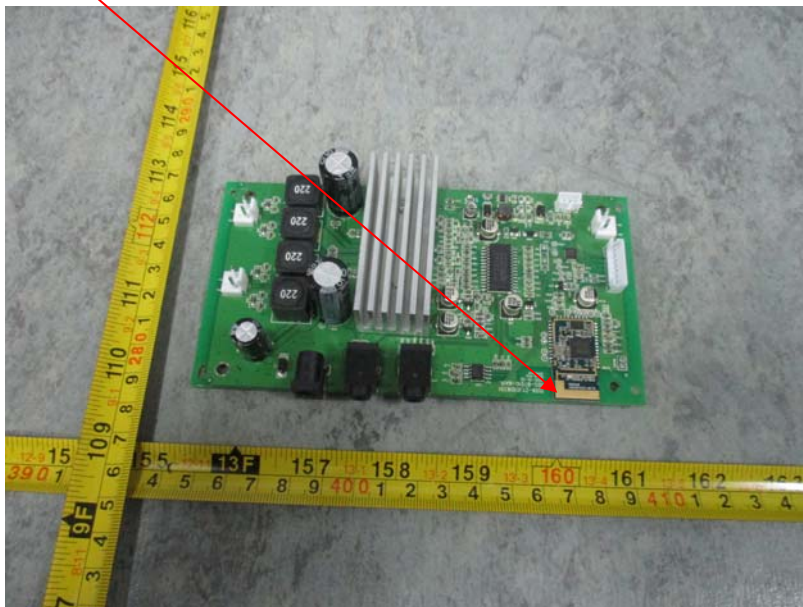
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

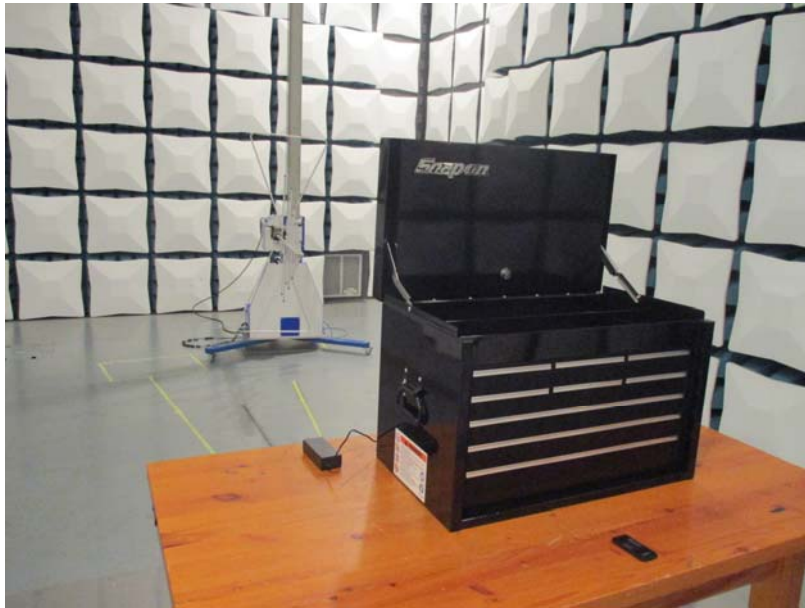
The antenna used in this product is a PCB Antenna, The directional gains of antenna used for transmitting is 0dBi.

ANTENNA



8 PHOTOGRAPH OF TEST

8.1 Radiated Emission



8.2 Conducted Emission

