

# FCC RADIO TEST REPORT FCC ID: QOG-L5

Product:	t: Romantic Lighting Bluetooth Speaker	
Trade Name:	· N/A	
Model Number:	L5, V8, LV400	
Report No.:	POCE15072235NRRF	

# **Prepared for**

Shen Zhen Lianhua Electronics Co., Ltd.
3F/11 Tanglang A Industry Zone, Xili Town, Nanshan District, Shenzhen, China

# Prepared by

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TEST RESULT CERTIFICATION		
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Applicant's name	Shen Zhen Lianhua Electronics Co., Ltd.	
Address	3E/11 Tanglang A Industry Zone, Xili Town, Nanshan District, Shenzhen, China	
Manufacture's Name	Shen Zhen Lianhua Electronics Co., Ltd.	
Address	<u>3F</u> /11 Tanglang A Industry Zone, Xili Town, Nanshan District,	
	Shenzhen, China	
Product description		
Product name	Romantic Lighting Bluetooth Speaker	
Model and/or type reference	L5, V8, LV400	
Ratings	DC 3.7V from battery	
Standards	-FCC Part15.249	
Test procedure	est procedureANSI-C63.10-2013	
This device described above has been tested by POCE, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.		
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Date of Test		

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		(Carlen Liu)
Authorized Signatory	:	Towny Lang
		(Tommy zhang)

.Pass

Feb. 25, 2016 ~ Mar. 07, 2016

The test report merely corresponds to the test sample.

Date (s) of performance of tests.....

Test Result .....

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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## 1. TEST STANDARDS

The tests were performed according to following standards:

**ANSI C63.10-2013** 

## 2. SUMMARY

## 2.1. Equipment Under Test

## Power supply system utilised

Power supply voltage : o 120V / 60 Hz o 115V / 60Hz o 12 V DC o 24 V DC

Other (specified in blank below)

DC 3.7V from battery

## 2.2. Description of the Equipment under Test (EUT)

The EUT (Romantic Lighting Bluetooth Speaker) support Bluetooth function.

Name of EUT	Romantic Lighting Bluetooth Speaker
Model Number	L5
Antenna Type	Internal
BT CE Operation frequency	2402MHz-2480MHz
BT Modulation Type	GFSK,8DPSK,π/4DQPSK(BT V2.1+EDR)
Bluetooth	BT V2.1+EDR
Antenna Gain	0dBi

#### **Channel List:**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
00	2402	27	2429	54	2456
01	2403	28	2430	55	2457
02	2404	29	2431	56	2458
03	2405	30	2432	57	2459
04	2406	31	2433	58	2460
05	2407	32	2434	59	2461
06	2408	33	2435	60	2462
07	2409	34	2436	61	2463
08	2410	35	2437	62	2464
09	2411	36	2438	63	2465
10	2412	37	2439	64	2466
11	2413	38	2440	65	2467
12	2414	39	2441	66	2468
13	2415	40	2442	67	2469
14	2416	41	2443	68	2470
15	2417	42	2444	69	2471
16	2418	43	2445	70	2472
17	2419	44	2446	71	2473
18	2420	45	2447	72	2474
19	2421	46	2448	73	2475
20	2422	47	2449	74	2476
21	2423	48	2450	75	2477
22	2424	49	2451	76	2478
23	2425	50	2452	77	2479
24	2426	51	2453	78	2480
25	2427	52	2454		
26	2428	53	2455		

For more details, refer to the user's manual of the EUT.

Serial number: Prototype

## 2.3. EUT operation mode

Test Mode(TM)	Description	Remark
TM1	Bottom Channel Transmitting	1
TM2	Middle Channel Transmitting	1
TM3	Top Channel Transmitting	1
TM4	Charging and keeping TX	power by USB

The field strength of radiation emission was measured in the following position: EUT stand-up position (Y axis), lie-down position (X, Z axis).

The following data show only with the worst case setup.

The worst case of Y axis was reported.

Based on client request, all normal using modes of the normal function were tested but only the worst test data(GFSK) of the worst mode is reported by this report.

Remark: The worst case mode is TM1(1Mbps) reported for unwanted emission and band edge test.

## 2.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- o supplied by the manufacturer
- supplied by the lab

Notebook PC
 Manufacturer: ACER

Model: V3-572G-59TB

## 2.5. Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: QOG-L5 filing to comply with Section 15.249 of the FCC Part 15, Subpart C Rules.

#### 2.6. Modifications

No modifications were implemented to meet testing criteria.

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## 3. TEST ENVIRONMENT

## 3.1. Address of the test laboratory

Shenzhen POCE Technology Co.,Ltd.

Room 502, Bldg. 1, Xinghua Garden, Baoan Road Xixiang, Baoan District, Shenzhen, China There is one 3m semi-anechoic chamber and two line conducted labs for final test. The Test Sites meet the requirements in documents ANSI C63.10 and CISPR 22/EN 55022 requirements

## 3.2. Test Facility

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

## FCC-Registration No.: 222278

Shenzhen POCE Technology Co.,Ltd. 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. Registration 222278.

## 3.3. Environmental conditions

During the measurement the environ Temperature:	nmental conditions were w 15-35 ° C	ithin the listed ranges:
Humidity:	30-60 %	
Atmospheric pressure:	950-1050mbar	

## 3.4. Configuration of Tested System

Fig. 2-1 Configuration of Tested System

EUT	

## 3.5. Statement of the measurement uncertainty

The reported uncertainty of measurement  $\mathbf{y} \pm \mathbf{U}_{\tau}$  where expended uncertainty  $\mathbf{U}$  is based on a standard uncertainty multiplied by a coverage factor of  $\mathbf{k=2}_{\tau}$  providing a level of confidence of approximately 95 %.

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No.	Item	Uncertainty
1	Conducted Emission Test	±1.38dB
2	RF power,conducted	±0.16dB
3	Spurious emissions,conducted	±0.21dB
4	All emissions,radiated(<1G)	±4.68dB
5	All emissions,radiated(>1G)	±4.89dB
6	Temperature	±0.5°C
7	Humidity	±2%

## 3.6. Equipments Used during the Test

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibration Date
1	Spectrum Analyzer	Agilent	E4407B	160400005	Jul. 12. 2015
2	Test Receiver	R&S	ESPI	101318	Jul. 12. 2015
3	Bilog Antenna	TESEQ	CBL6111D	31216	Oct. 16. 2015
4	50Ω Coaxial Switch	Anritsu	MP59B	6200264416	Jul. 06. 2015
5	Spectrum Analyzer	ADVANTEST	R3132	150900201	Jul. 06. 2015
6	Horn Antenna	EM	EM-AH-10180	2011071402	Oct. 16. 2015
7	Horn Ant	Schwarzbeck	BBHA 9170	9170-181	Oct. 16. 2015
8	Amplifier	EM	EM-30180	060538	Jul. 12. 2015
9	Loop Antenna	ARA	PLA-1030/B	1029	Oct. 16. 2015
10	Power Meter	R&S	NRVS	100696	Jul. 06. 2015
11	Test Receiver	R&S	ESCI	101160	Jul. 12. 2015
12	LISN	R&S	ENV216	101313	Jul. 06. 2015
13	LISN	EMCO	3816/2	00042990	Jul. 06. 2015
14	50Ω Coaxial Switch	Anritsu	MP59B	6200264417	Jul. 06. 2015
15	Passive Voltage Probe	R&S	ESH2-Z3	100196	Jul. 06. 2015
16	Absorbing clamp	R&S	MOS-21	100423	Jul. 06. 2015
17	The temporary antenna connector	MMCX - SMA	1547	23657478	Jul. 06. 2015
18	RF Cable(1-25GHz)	HUBER+SUHNER	RG214	N/A	Jul. 06. 2015
19	RF Cable(0-1GHz)	HUBER+SUHNER	RG174	N/A	Jul. 06. 2015

Note:1.The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

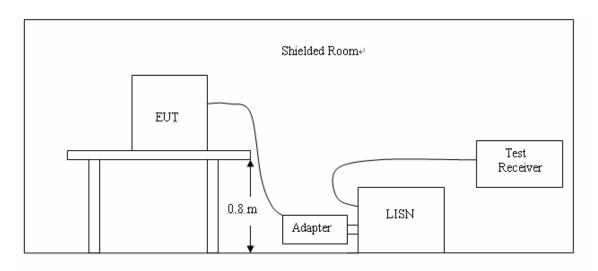
2.The Cal. Due is 1 year.

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## 4. TEST CONDITIONS AND RESULTS

#### 4.1. Conducted Emissions Test

#### **TEST CONFIGURATION**



#### **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.
- 8 During the above scans, the emissions were maximized by cable manipulation.

The RBW/VBW for 150KHz to 30MHz: 9KHz

## CONDUCTED POWER LINE EMISSION LIMIT

For unintentional device, according to § 15.207(a) Line Conducted Emission Limits is as following:

F	Maximum RF Line Voltage (dBμV)							
Frequency (MHz)	CLAS	SS A	C	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				

<sup>\*</sup> Decreasing linearly with the logarithm of the frequency

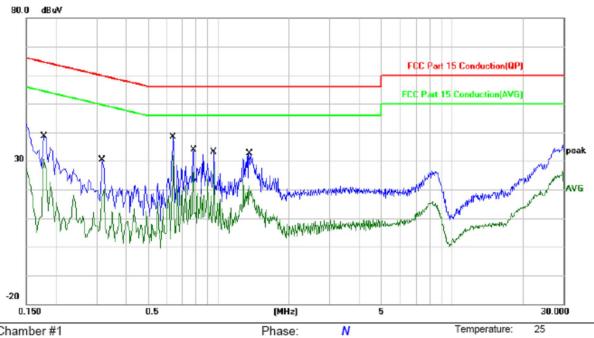
For intentional device, according to §15.207(a) Line Conducted Emission Limit is same as above table.

## **TEST RESULTS**



Humidity:

41 %



Site Chamber #1

Limit: FCC Part 15 Conduction(QP)

EUT: M/N: Mode: Note:

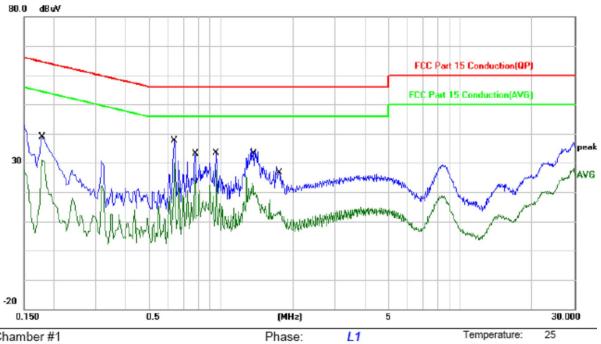
No. N	Лk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1767	37.49	-0.13	37.36	64.63	-27.27	QP	
2		0.1767	21.62	-0.13	21.49	54.63	-33.14	AVG	
3		0.3167	27.97	-0.01	27.96	59.79	-31.83	QP	
4		0.3167	18.83	-0.01	18.82	49.79	-30.97	AVG	
5 *	t	0.6374	36.96	-0.05	36.91	56.00	-19.09	QP	
6		0.6374	26.70	-0.05	26.65	46.00	-19.35	AVG	
7		0.7797	32.87	-0.07	32.80	56.00	-23.20	QP	
8		0.7797	22.99	-0.07	22.92	46.00	-23.08	AVG	
9		0.9563	31.40	-0.11	31.29	56.00	-24.71	QP	
10		0.9563	24.31	-0.11	24.20	46.00	-21.80	AVG	
11		1.3685	26.46	-0.17	26.29	56.00	-29.71	QP	
12		1.3685	16.68	-0.17	16.51	46.00	-29.49	AVG	

Power:

AC 120V/60Hz



Humidity:



Power:

AC 120V/60Hz

Site Chamber #1

Limit: FCC Part 15 Conduction(QP)

EUT: M/N: Mode: Note:

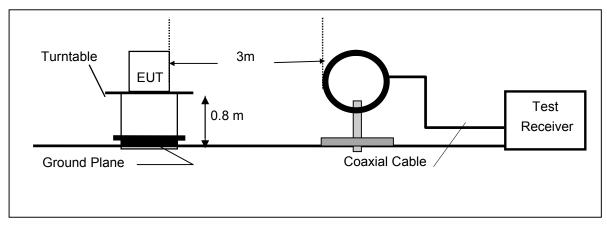
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∀	dB	dBu∀	dBu∀	dB	Detector	Comment
1		0.1774	37.91	-0.13	37.78	64.60	-26.82	QP	
2		0.1774	22.09	-0.13	21.96	54.60	-32.64	AVG	
3	*	0.6398	35.46	-0.05	35.41	56.00	-20.59	QP	
4		0.6398	24.62	-0.05	24.57	46.00	-21.43	AVG	
5		0.7788	31.86	-0.07	31.79	56.00	-24.21	QP	
6		0.7788	21.99	-0.07	21.92	46.00	-24.08	AVG	
7		0.9487	25.86	-0.11	25.75	56.00	-30.25	QP	
8		0.9487	14.02	-0.11	13.91	46.00	-32.09	AVG	
9		1.3549	27.23	-0.17	27.06	56.00	-28.94	QP	
10		1.3549	18.90	-0.17	18.73	46.00	-27.27	AVG	
11		1.7325	20.36	-0.21	20.15	56.00	-35.85	QP	
12		1.7325	11.02	-0.21	10.81	46.00	-35.19	AVG	

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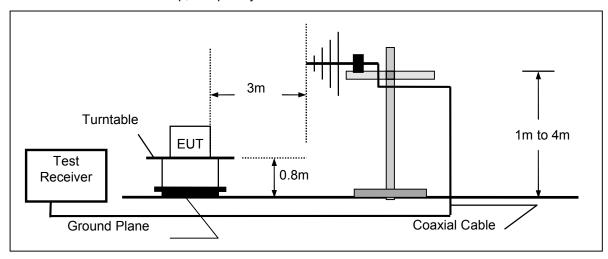
## 4.2. Transmitter Radiated Unwanted Emissions and Bandedge

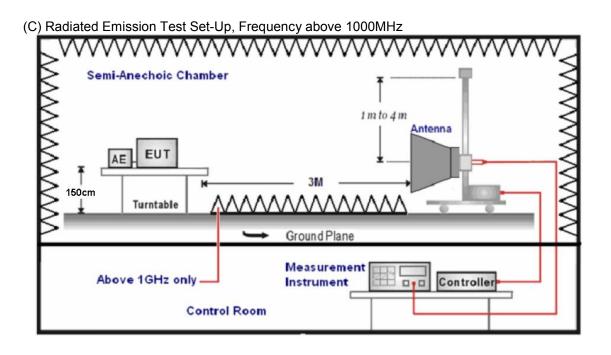
### **TEST CONFIGURATION**

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



(B) Radiated Emission Test Set-Up, Frequency below 1000MHz





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### FIELD STRENGTH CALCULATION

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

Where FS = Field Strength	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	AG = Amplifier Gain
AF = Antenna Factor	

#### RADIATION LIMIT

For unintentional device, according to § 15.209(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	40.0	100
88-216	3	43.5	150
216-960	3	46.0	200
Above 960	3	54.0	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.

#### **TEST PROCEDURE**

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane below 1GHz and 1.5m above ground plane above 1GHz.
- 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. For the radiated emission test above 1GHz: Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 7. Repeat above procedures until the measurements for all frequencies are complete.
- 8. Based on the Frequency Generator in the device include 16MHz. The test frequency range from 9KHz to 25GHz per FCC PART 15.33(a).

#### Note:

Three axes are chosen for pretest, the Y axis is the worst mode for final test. For battery operated equipment, the equipment tests shall be performed using a fully-charged battery.

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#### **TEST RESULTS**

All the test modes (TM1, TM2, TM3) completed for test. The worst case of Radiated Emission is TM1; the test data of this mode was reported.

#### 9KHz-30MHz:

Freq.	Level	Over Limit	Limit Line	Remark
(MHz)	(dBuV)	(dB)	(dBuV)	
	-			See Note

Note: The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.

Dstance extrapolation factor= 40 log (specific distance/ test distance) (dB); Limit line= specific limits (dBuV) + distance extrapolation factor.

#### 30-1000MHz:



Site Chamber #1

Limit: FCC Part 15B Radiation 3m

EUT: Romantic Lighting Bluetooth Speake

M/N: L5 Mode: running

Note:

Polarization: Vertical Temperature:

Power: Humidity:

Distance: 3m

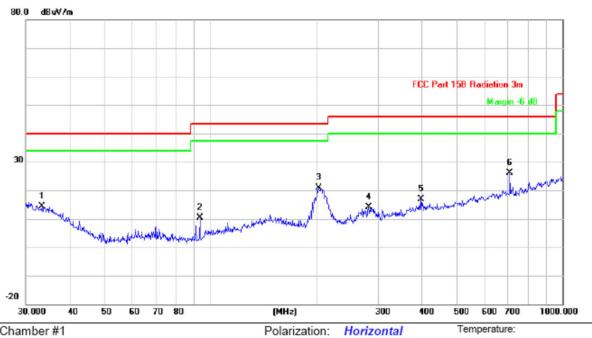
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	32.0667	38.99	-8.69	30.30	40.00	-9.70	QP			
2		63.9828	48.13	-20.66	27.47	40.00	-12.53	QP			
3		158.6677	32.47	-14.18	18.29	43.50	-25.21	QP			
4		205.6751	48.00	-16.00	32.00	43.50	-11.50	QP			
5		286.9823	36.80	-13.89	22.91	46.00	-23.09	QP			
6	,	396.2415	38.22	-10.88	27.34	46.00	-18.66	QP			

#### 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.
- \* 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.



Humidity:



Site Chamber #1

Limit: FCC Part 15B Radiation 3m

EUT: Romantic Lighting Bluetooth Speake

M/N: L5 Mode: running

Note:

No	. Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBu∀	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		33.3279	23.86	-9.37	14.49	40.00	-25.51	QP			
2		93.4402	30.92	-20.44	10.48	43.50	-33.02	QP			
3		203.5228	36.66	-15.75	20.91	43.50	-22.59	QP			
4		281.9946	28.41	-14.28	14.13	46.00	-31.87	QP			
5		396.2415	27.82	-10.88	16.94	46.00	-29.06	QP			
6	*	709.1823	32.06	-5.90	26.16	46.00	-19.84	QP			

Power:

Distance: 3m

#### Remark:

- Measuring frequencies from 9 KHz to the 1 GHz, Radiated emission test from 9KHz to 30MHz (1) 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.
- The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz (3) for measuring above 1 GHz, below 30MHz was 10KHz.

Note: Measurement worst emissions of receive antenna polarization: Vertical.

Frequency	Emission		Limit	Margin	Raw	Antenna Factor	Cable	Pre- amplifier	Correction
(MHz)	Level		(dBuV/m)	(dB)	Value	(dB/m)	Factor	(dB)	Factor
	(dBu\	V/m)			(dBuV)		(dB)		(dB/m)
2402.00	96.28	PK	114	17.72	98.24	28.78	4.61	35.36	-1.96
2402.00	88.11	AV	94	5.89	90.07	28.78	4.61	35.36	-1.96
2390.00	67.36	PK	74	6.64	69.40	28.72	4.60	35.36	-2.04
2390.00	48.95	AV	54	5.05	50.99	28.72	4.60	35.36	-2.04
2400.00	70.12	PK	74	3.88	72.09	28.78	4.61	35.36	-1.97
2400.00	51.89	AV	54	2.11	53.86	28.78	4.61	35.36	-1.97
4804.00	67.30	PK	74	6.70	62.79	33.49	6.91	35.89	4.51
4804.00	48.01	AV	54	5.99	43.50	33.49	6.91	35.89	4.51
6005.00	64.91	PK	74	9.09	56.78	35.12	7.60	34.59	8.13
6005.00	46.36	AV	54	7.64	38.23	35.12	7.60	34.59	8.13
7206.00	64.04	PK	74	9.96	52.93	36.95	9.18	35.03	11.11
7206.00	46.23	AV	54	7.77	35.12	36.95	9.18	35.03	11.11

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Frequency	Emission		Limit	Margin	Raw	Antenna Factor	Cable	Pre- amplifier	Correction
(MHz)	Lev	/el	(dBuV/m)	(dB)	Value	(dB/m)	Factor	(dB)	Factor
	(dBu\	V/m)			(dBuV)		(dB)		(dB/m)
2441.00	95.92	PK	114	18.08	97.78	28.85	4.66	35.37	-1.86
2441.00	84.34	AV	94	9.66	86.20	28.85	4.66	35.37	-1.86
3200.00	66.78	PK	74	7.22	65.42	31.24	5.47	35.35	1.36
3200.00	47.26	AV	54	6.74	45.90	31.24	5.47	35.35	1.36
3689.00	66.81	PK	74	7.19	63.21	32.57	6.05	35.01	3.60
3689.00	45.97	AV	54	8.03	42.37	32.57	6.05	35.01	3.60
4882.00	67.83	PK	74	6.17	61.47	33.60	6.95	34.19	6.36
4882.00	47.05	AV	54	6.95	40.69	33.60	6.95	34.19	6.36
6103.00	66.31	PK	74	7.69	58.01	35.20	7.74	34.64	8.30
6103.00	46.94	AV	54	7.06	38.64	35.20	7.74	34.64	8.30
7323.00	64.79	PK	74	9.21	53.09	37.46	9.23	35.00	11.70
7323.00	45.87	AV	54	8.13	34.17	37.46	9.23	35.00	11.70

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Frequency	Emission		Limit	Margin	Raw	Antenna Factor	Cable	Pre- amplifier	Correction
(MHz)	Lev	/el	(dBuV/m)	(dB)	Value	(dB/m)	Factor	(dB)	Factor
	(dBuV/m)				(dBuV)		(dB)		(dB/m)
2480.00	97.01	PK	114	16.99	98.76	28.92	4.70	35.38	-1.75
2480.00	86.28	AV	94	7.72	88.03	28.92	4.70	35.38	-1.75
2483.50	63.02	PK	74	10.98	64.76	28.93	4.70	35.38	-1.74
2483.50	44.05	AV	54	9.95	45.79	28.93	4.70	35.38	-1.74
3720.00	63.94	PK	74	10.06	60.74	32.77	6.08	35.65	3.20
3720.00	46.81	AV	54	7.19	43.61	32.77	6.08	35.65	3.20
4960.00	68.59	PK	74	5.41	61.89	33.84	7.00	34.14	6.70
4960.00	46.22	AV	54	7.78	39.52	33.84	7.00	34.14	6.70
6200.00	64.03	PK	74	9.97	55.63	35.19	7.90	34.69	8.40
6200.00	47.85	AV	54	6.15	39.45	35.19	7.90	34.69	8.40
7440.00	64.99	PK	74	9.01	53.04	37.64	9.28	34.97	11.95
7440.00	46.38	AV	54	7.62	34.43	37.64	9.28	34.97	11.95

Note: above 8GHz up to 25GHz was verified, and no any emission was found except system noise floor.

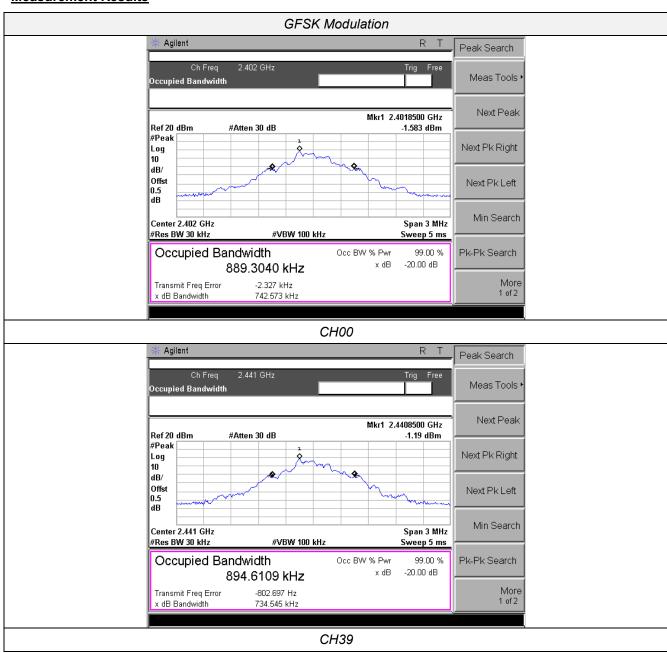
## 4.3. Occupied Bandwidth Measurement

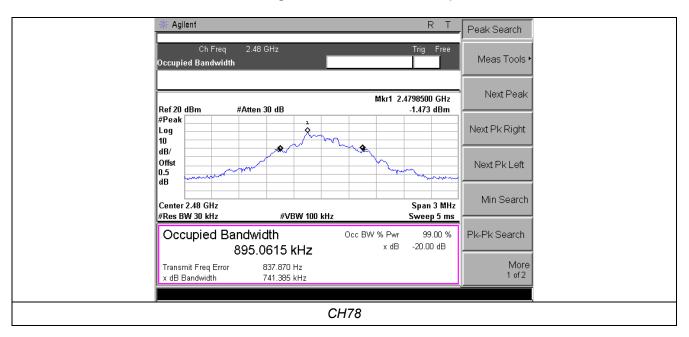
## Measurement Procedure

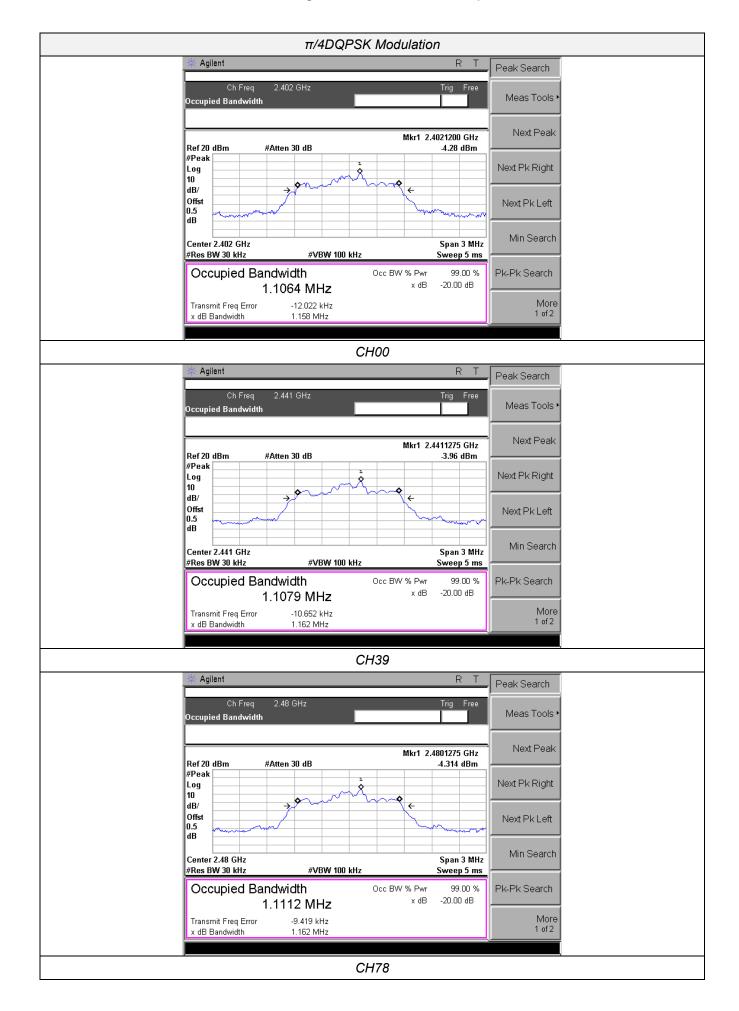
- 1. Set EUT as normal operation.
- 2. RBW ≥ 1% of the 20 dB bandwidth, VBW ≥ RBW.
- 3. The useful conducted emission from the EUT was detected by the spectrum analyser with peak detector.

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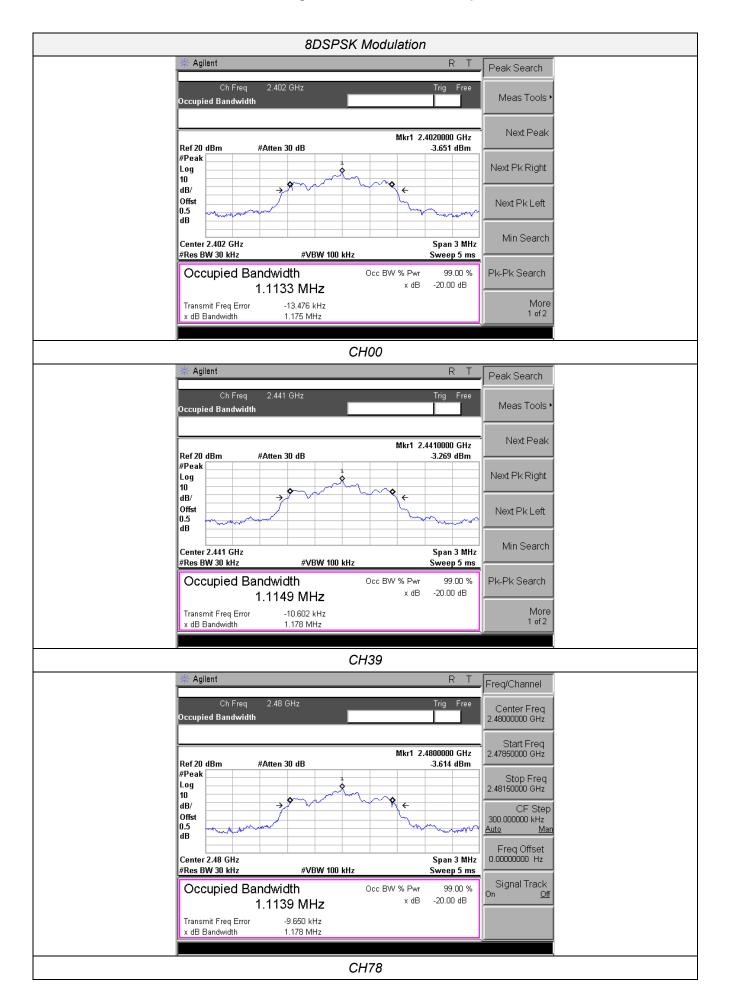
### **Measurement Results**











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## 5. 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 15.247 (c), 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.

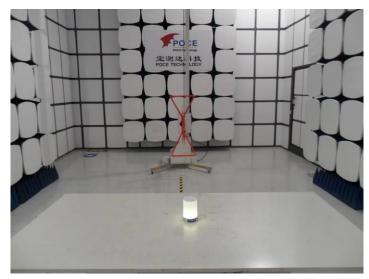
The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

#### **Antenna Connected Construction**

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

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# 6. Test Setup Photos of the EUT



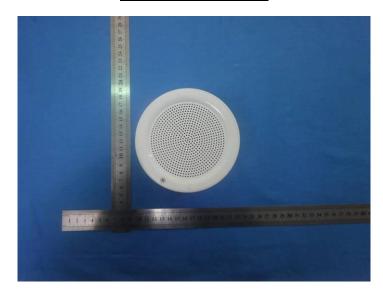


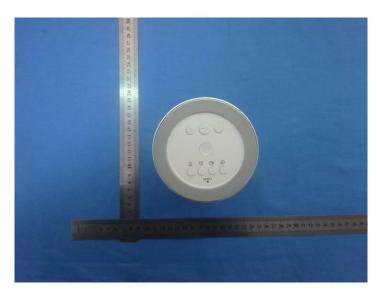


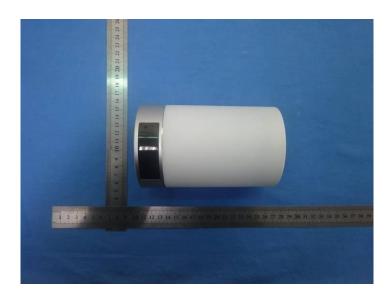
# 7. External and Internal Photos of the EUT

## **External Photos of EUT**

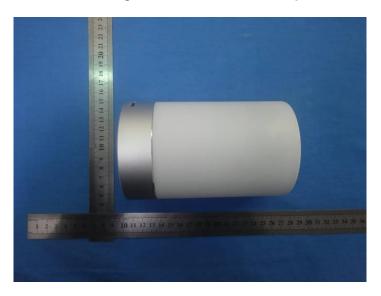
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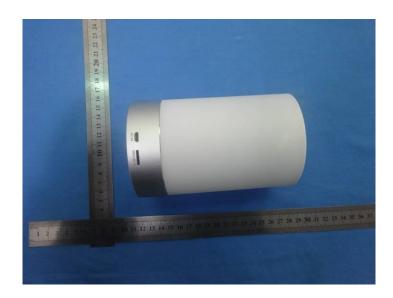


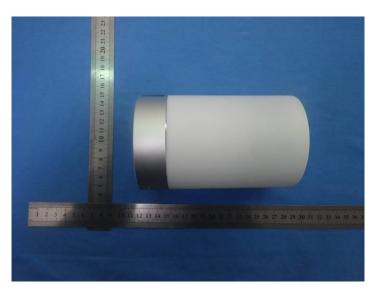








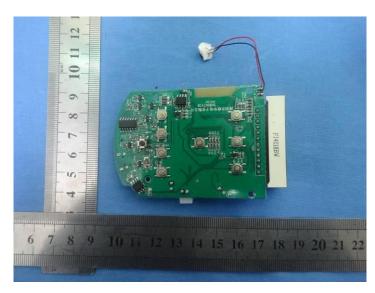




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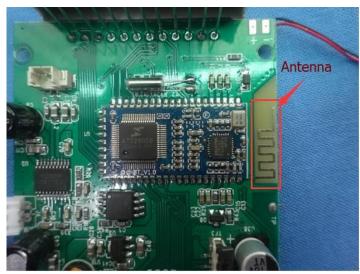
## **Internal Photos of EUT**











.....End of Report.....