

TEST REPORT

FCC ID: TUV8103-K010

Product: Wireless Keyboard

Model No.: ET-8103

Additional Model: ET-K010, K010, ET-3750

Trade Mark: N/A

Report No.: TCT150701E001

Issued Date: July 10, 2015

Issued for:

**Eastern Times Technology Co., Ltd
Building D, Nan An Industry Area, Youganpu Village, Fenggang Town,
Dongguan City, Guangdong, China**

Issued By:

**Shenzhen Tongce Testing Lab.
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1. Test Certification

Product:	Wireless Keyboard
Model No.:	ET-8103
Additional Model:	ET-K010, K010, ET-3750
Applicant:	Eastern Times Technology Co., Ltd
Address:	Building D, Nan An Industry Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.
Manufacturer:	Eastern Times Technology Co., Ltd
Address:	Building D, Nan An Industry Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.
Date of Test:	July 01- July 09, 2015
Applicable Standards:	FCC CFR Title 47 Part 15 Subpart C Section 15.249

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By: Neil Wong

Neil Wong

Date: July 09, 2015Reviewed By: Davis Zhou

Davis Zhou

Date: July 10, 2015Approved By: Tomsin

Tomsin

Date: July 10, 2015

2. Test Result Summary

Requirement	CFR 47 Section	Result
Antenna Requirement	§15.203	PASS
AC Power Line Conducted Emission	§15.207	N/A
Field Strength of Fundamental	§15.249 (a)	PASS
Spurious Emissions	§15.249 (a) (d)/ §15.209	PASS
Band Edge	§15.249 (d)/ §15.205	PASS
20dB Occupied Bandwidth	§15.215 (c)	PASS

Note:

1. Pass: Test item meets the requirement.
2. Fail: Test item does not meet the requirement.
3. N/A: Test case does not apply to the test object.
4. The test result judgment is decided by the limit of test standard.

3. EUT Description

Product Name:	Wireless Keyboard
Model :	ET-8103
Additional Model:	ET-K010, K010, ET-3750
Trade Mark:	N/A
Operation Frequency:	2408-2474MHz
Channel Separation:	2MHz
Number of Channel:	34
Modulation Technology:	FSK
Antenna Type:	Internal Antenna
Antenna Gain:	-2.0dBi
Power Supply:	DC 3.0V(AAA Battery * 2)
Remark:	All models above are identical in interior structure, electrical circuits and components, and just differ in look and model for the marketing requirement.

Operation Frequency Each of Channel

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2408MHz	10	2428 MHz	20	2448 MHz	30	2468 MHz
1	2410 MHz	11	2430 MHz	21	2450 MHz	31	2470 MHz
2	2412 MHz	12	2432 MHz	22	2452 MHz	32	2472 MHz
3	2414 MHz	13	2434 MHz	23	2454 MHz	33	2474 MHz
4	2416 MHz	14	2436 MHz	24	2456 MHz		
5	2418 MHz	15	2438 MHz	25	2458 MHz		
6	2420 MHz	16	2440 MHz	26	2460 MHz		
7	2422 MHz	17	2442 MHz	27	2462 MHz		
8	2424 MHz	18	2444 MHz	28	2464 MHz		
9	2426 MHz	19	2446 MHz	29	2466 MHz		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2408MHz
The middle channel	2440MHz
The Highest channel	2474MHz

4. Genera Information

4.1. Test Environment and Mode

Operating Environment:	
Temperature:	25.0 °C
Humidity:	54 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel
<p>The sample was placed 0.8m 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.</p>	

4.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

Note:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

5. Facilities and Accreditations

5.1. Facilities

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

- FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

- CNAS - Registration No.: CNAS L6165

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

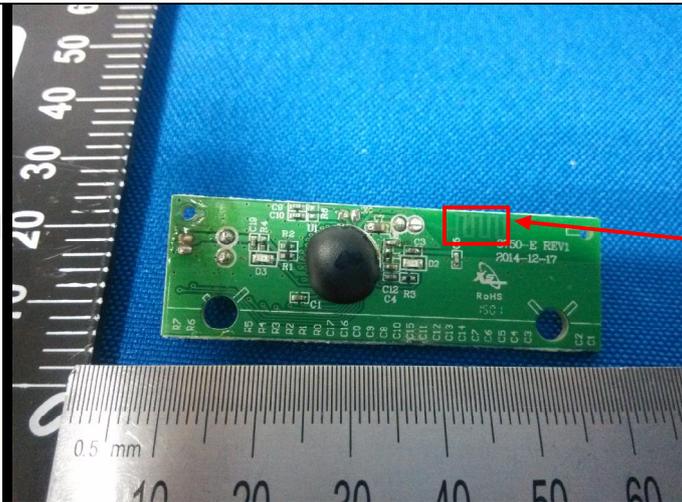
5.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	$\pm 2.56\text{dB}$
2	RF power, conducted	$\pm 0.12\text{dB}$
3	Spurious emissions, conducted	$\pm 0.11\text{dB}$
4	All emissions, radiated(<1GHz)	$\pm 3.92\text{dB}$
5	All emissions, radiated(>1GHz)	$\pm 4.28\text{dB}$
6	Temperature	$\pm 0.1^\circ\text{C}$
7	Humidity	$\pm 1.0\%$

6. Test Results and Measurement Data

6.1. Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203 /247(c)
<p>15.203 requirement: 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> <p>15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.</p>	
E.U.T Antenna:	
<p>The Bluetooth antenna is an internal PCB antenna which permanently attached, and the best case gain of the antenna is -2.0dBi.</p>	
	

6.2. Conducted Emission

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.207		
Test Method:	ANSI C63.4:2009		
Frequency Range:	150 kHz to 30 MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limits:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
Test Setup:	<p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test Mode:	Transmitting mode with modulation		
Test Procedure:	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement. 		
Test Result:	The EUT is supplied by 3.0V from AAA battery, so Conducted Emission is not applicable.		

6.3. Radiated Emission Measurement

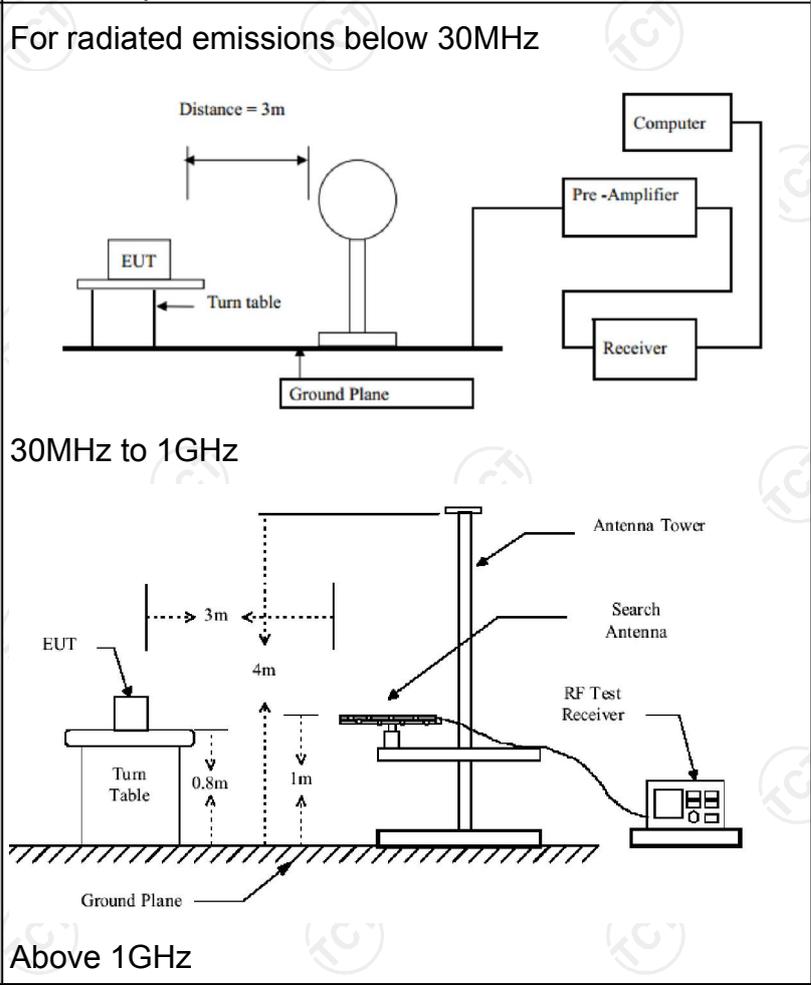
6.3.1. Test Specification

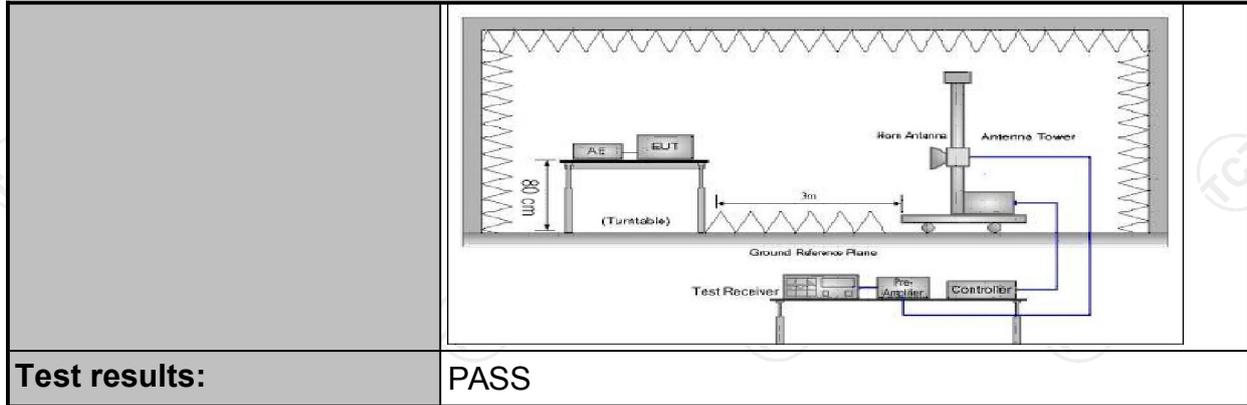
Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.4: 2009 and ANSI C63.10:2009				
Frequency Range:	9 kHz to 25 GHz				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal & Vertical				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Peak		1MHz	10Hz	Average Value	
Limit(Field strength of the fundamental signal):	Frequency	Limit (dBuV/m @3m)		Remark	
	2400MHz-2483.5MHz	94.00		Average Value	
		114.00		Peak Value	
Limit(Spurious Emissions):	Frequency	Limit (dBuV/m @3m)		Remark	
	0.009-0.490	2400/F(KHz)		Quasi-peak Value	
	0.490-1.705	24000/F(KHz)		Quasi-peak Value	
	1.705-30	30		Quasi-peak Value	
	30MHz-88MHz	40.0		Quasi-peak Value	
	88MHz-216MHz	43.5		Quasi-peak Value	
	216MHz-960MHz	46.0		Quasi-peak Value	
	960MHz-1GHz	54.0		Quasi-peak Value	
	Above 1GHz	54.0		Average Value	
74.0		Peak Value			
Limit (band edge) :	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 Section 15.209, whichever is the lesser attenuation.				
Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber in below 1GHz, 80cm above the ground in above 1GHz. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make 				



- the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Test setup:





Test results: PASS

6.3.2. Test Instruments

ESPI Test Receiver	ROHDE&SCHW ARZ	ESVD	100008	Sept.16 , 2015
Spectrum Analyzer	ROHDE&SCHW ARZ	FSEM	848597/001	Sept.16 , 2015
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 21, 2015
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sept.16 , 2015
Pre-amplifier	HP	8447D	2727A05017	Sept.16 , 2015
Loop antenna	ZHINAN	ZN30900A	12024	Dec.14 , 2015
Broadband Antenna	Schwarzbeck	VULB9163	340	Sept.16 , 2015
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sept.16 , 2015
Horn Antenna	Schwarzbeck	BBHA 9170	373	Sept.16 , 2015
Coax cable	TCT	RE-low-01	N/A	Sept.15 , 2015
Coax cable	TCT	RE-high-02	N/A	Sept.15 , 2015
Coax cable	TCT	RE-low-03	N/A	Sept.15 , 2015
Coax cable	TCT	RE-high-04	N/A	Sept.15 , 2015
Antenna Mast	CCS	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.3.3. Test Data

Field Strength of Fundamental

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horizontal /Vertical	Limits PK/AV (dBuV/m)	Margin (dB)
2408	65.26(PK)	H	114/94	-28.74
2440	68.41(PK)	V	114/94	-25.59
2474	69.05(PK)	V	114/94	-24.95

Spurious Emissions

Frequency Range (9 kHz-30MHz)

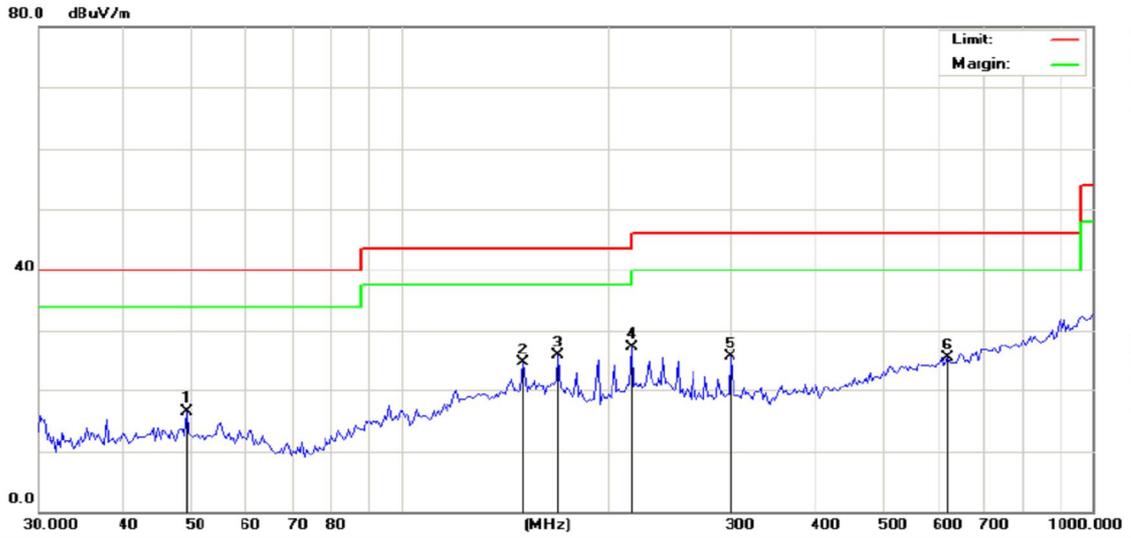
Frequency (MHz)	Level@3m (dBμV/m)	Limit@3m (dBμV/m)
--	--	--
--	--	--
--	--	--
--	--	--

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

Frequency Range (30MHz-1GHz)

Horizontal:



Site: Polarization: *Horizontal* Temperature: 25
Limit: FCC Part 15B Class B RE_3 m Power: Humidity: 56 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		49.0627	28.52	-12.08	16.44	40.00	-23.56	peak	0	
2		149.9676	39.84	-15.16	24.68	43.50	-18.82	peak	0	
3	*	168.9970	39.83	-13.83	26.00	43.50	-17.50	peak	0	
4		216.1197	38.37	-11.12	27.25	46.00	-18.75	peak	0	
5		300.6988	33.88	-8.25	25.63	46.00	-20.37	peak	0	
6		620.1167	27.06	-1.52	25.54	46.00	-20.46	peak	0	

Vertical:



Site: Polarization: **Vertical** Temperature: 25
Limit: FCC Part 15B Class B RE_3 m Power: Humidity: 56 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Antenna Height cm	Table Degree	Comment
1		37.5647	33.45	-12.78	20.67	40.00	-19.33	peak	0	
2		42.9305	36.18	-12.34	23.84	40.00	-16.16	peak	0	
3	*	49.0626	39.97	-12.08	27.89	40.00	-12.11	peak	0	
4		149.9676	32.07	-15.16	16.91	43.50	-26.59	peak	0	
5		168.9970	32.88	-13.83	19.05	43.50	-24.45	peak	0	
6		718.7246	27.25	0.37	27.62	46.00	-18.38	peak	0	

Note: Measurements were conducted in all channels (high, middle, low), and the worst case (low channel) was submitted only.

Above 1GHz

Low channel: 2408 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
2387.50	H	69.32	---	-4.20	65.12	---	74.00	54.00	-8.88
2387.50	H	---	48.24	-4.20	---	44.04	74.00	54.00	-9.96
4816.00	H	47.04	---	-3.94	43.10	---	74.00	54.00	-30.90
7224.00	H	44.71	---	0.52	45.23	---	74.00	54.00	-28.77
---	---	---	---	---	---	---	---	---	---
2387.50	V	66.94	---	-4.20	62.74	---	74.00	54.00	-11.26
2387.50	V	---	51.99	-4.20	---	47.79	74.00	54.00	-6.21
4816.00	V	48.18	---	-3.94	44.24	---	74.00	54.00	-29.76
7224.00	V	44.37	---	0.52	44.89	---	74.00	54.00	-29.11
---	---	---	---	---	---	---	---	---	---

Middle channel: 2440MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
4880.00	H	48.79	---	-3.98	44.81	---	74.00	54.00	-29.19
7320.00	H	46.14	---	0.57	46.71	---	74.00	54.00	-27.29
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
4880.00	V	48.82	---	-3.98	44.84	---	74.00	54.00	-29.16
7320.00	V	47.35	---	0.57	47.92	---	74.00	54.00	-26.08
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---	---

High channel: 2474 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dB μ V)	AV reading (dB μ V)	Correction Factor (dB/m)	Emission Level		Peak limit (dB μ V/m)	AV limit (dB μ V/m)	Margin (dB)
					Peak (dB μ V/m)	AV (dB μ V/m)			
2486.58	H	67.20	---	-2.38	64.82	---	74.00	54.00	-9.18
2486.58	H	---	47.98	-2.38	---	45.60	74.00	54.00	-8.40
4948.00	H	50.98	---	-3.98	47.00	---	74.00	54.00	-27.00
7422.00	H	46.31	---	0.57	46.88	---	74.00	54.00	-27.12
---	---	---	---	---	---	---	---	---	---
2483.51	V	67.53	---	-2.38	65.93	---	74.00	54.00	-8.07
2483.51	V	---	48.18	-2.38	---	45.80	74.00	54.00	-6.93
4948.00	V	50.94	---	-3.98	46.37	---	74.00	54.00	-27.63
7422.00	V	46.27	---	0.57	45.85	---	74.00	54.00	-28.15
---	---	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. Data of measurement shown “---“in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

Band Edge Requirement

Low channel: 2408 MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
2400	H	68.77	---	-4.2	64.57	---	74	---	-9.43
2400	H	---	48.79	-4.2	---	44.59	---	54	-9.41
---	---	---	---	---	---	---	---	---	---
2400	V	68.60	---	-4.2	64.40	---	74	---	-9.60
2400	V	---	52.08	-4.2	---	47.88	---	54	-6.12
---	---	---	---	---	---	---	---	---	---

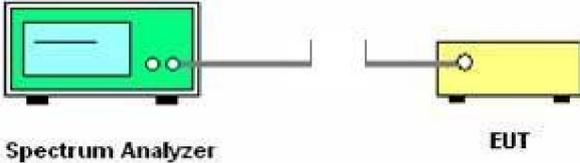
Low channel: 2474MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBμV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Level		Peak limit (dBμV/m)	AV limit (dBμV/m)	Margin (dB)
					Peak (dBμV/m)	AV (dBμV/m)			
2483.5	H	70.51	---	-4.2	66.31	---	74	---	-7.69
2483.5	H	---	50.53	-4.2	---	46.33	---	54	-7.67
---	---	---	---	---	---	---	---	---	---
2483.5	V	68.57	---	-4.2	64.37	---	74	---	-9.63
2483.5	V	---	52.05	-4.2	---	47.85	---	54	-6.15
---	---	---	---	---	---	---	---	---	---

Note:

1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss – Pre-amplifier
2. Margin (dB) = Emission Level (Peak) (dBμV/m)-Average limit (dBμV/m)
3. The emission levels of other frequencies are very lower than the limit and not show in test report.
4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
5. Data of measurement shown "----" in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

6.4.20dB Occupied Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.215(c)
Test Method:	ANSI C63.4: 2009
Limit:	N/A
	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW\geq1% of the 20 dB bandwidth; VBW\geqRBW; Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report.
Test setup:	 <p>The diagram illustrates the test setup. On the left is a Spectrum Analyzer, represented by a green rectangular box with a screen and two knobs. On the right is the EUT (Equipment Under Test), represented by a yellow rectangular box. A horizontal line with a small gap in the middle connects the two boxes, representing a cable connection between the Spectrum Analyzer and the EUT.</p>
Test Mode:	Transmitting mode with modulation
Test results:	PASS

6.4.2. Test Instruments

RF Test Room				
Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	N9020A	MY49100060	Oct. 21, 2015

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

6.4.3. Test data

Test Channel	20dB Occupy Bandwidth (kHz)	Limit	Conclusion
Lowest	246.7	---	PASS
Middle	246.3	---	PASS
Highest	241.5	---	PASS

Test plots as follows:



Lowest channel



Middle channel



Highest channel



*****END OF REPORT*****