



Shenzhen TCT Testing Technology Co., Ltd.

## FCC ID TEST REPORT

for

Wireless Keyboard

Model: KB8706

FCC ID: ZX3KB8706

Prepared for : Shenzhen Kingree Electronic Co.,Ltd  
3-6F, 70 Building, Bohua Tech Park, Shangwei Industrial Area,  
Zhangkeng jing, Guanlan Street, Shenzhen, China.

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Report Number: TCS1209004-1  
Date of Test: September 10~14, 2012  
Date of Report: September 14, 2012

**Note:** This report is considered invalidated without the Special Seal for Inspection of the TCT. This report shall not be altered, increased or deleted. The results shown in this test report does not apply to the bulk, but the sample(s) tested only. Without written approval of TCT, this test report shall not be copied except in full and published as advertisement.



Shenzhen TCT Testing Technology Co., Ltd.

**Special Statement:**

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: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

**FCC-Registration No.: 899988**

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. Registration No.: 899988.

**IC- Registration No.: IC5205A-02**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

## Test Report Conclusion

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Shenzhen TCT Testing Technology Co., Ltd.

## 1.0 General Details

### 1.1 Test Lab Details

Name : Shenzhen TCT Testing Technology Co.,Ltd  
Address: 1F, Building 1, Yibaolai Industrial Park, Qiaotou Village, Fuyong Town, Baoan District, Shenzhen, Guangdong, China  
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Shenzhen Timeway Technology Consulting Co., Ltd.

Site on File with the Federal Communications Commission – United States

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Shenzhen Kingree Electronic Co.,Ltd  
Address: 3-6F,70 Building, Bohua Tech Park, Shangwei Industrial Area, Zhangkeng jing, Guanlan Street, Shenzhen, China.  
Telephone: 0755-29570180  
Fax: 0755-29570160

### 1.3 Description of EUT

Product:	Wireless Keyboard
Manufacturer:	Shenzhen Kingree Electronic Co.,Ltd
Brand Name:	N/A
Model Number:	KB8706
Additional Model Name	N/A
Additional Trade Name	N/A
Rating:	DC 3V (2*AAA batteries)
Modulation Type:	FHSS
Channel number:	39
Channel spacing	2 MHz
Operation Frequency	2403~2479MHz
Antenna Designation	A PCB printed antenna and the maximum gain is 2dBi

### 1.4 Submitted Sample

1 Sample

### 1.5 Test Duration

2012-09-12 to 2012-09-14

## 1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.7dB

Radiated Emissions Uncertainty =4.5dB

## 1.7 Test Engineer

The sample tested by



Printed name: Jack Kang

<b>Test Equipments</b>					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2011-12-04	2012-12-03
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2011-12-04	2012-12-03
System Controller	CT	SC100	-	2012-02-17	2013-02-16
Spectrum Analyzer	ROHDE&SCHWARZ	FSU	-	2012-02-17	2013-02-16
Pre-amplifier	Agilent	8447D	83153007374	2012-02-17	2013-02-16
Pre-amplifier	Agilent	8449B	3008A01738	2012-02-17	2013-02-16
Triple-loop antenna	ROHDE&SCHWARZ	HM020	843885/002	2012-02-17	2013-02-16
Horn Antenna	ETS LINDGREN	3117	--	2012-02-17	2013-02-16

**3.0 Technical Details****3.1 Summary of test results**

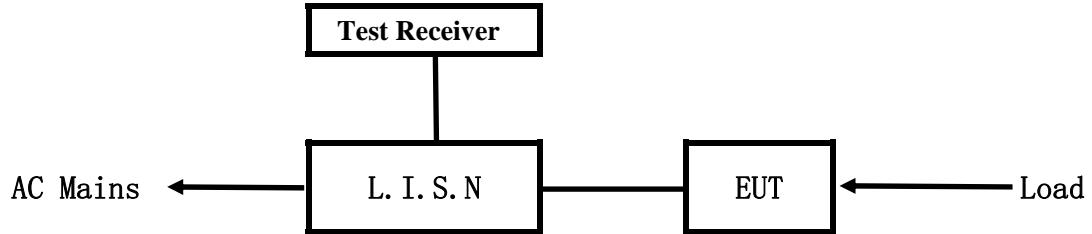
The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
<b>FCC Part 15:2011, Paragraph 15.207</b>	<b>Conducted Emission Test</b>	<b>PASS</b>	<b>N/A</b>
<b>FCC Part 15; 2011 Subpart C Paragraph 15.249(a)</b>	<b>Radiated Emission Test</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15:2011 Subpart C Paragraph 15.249(d) Limit</b>	<b>Band Edge Test</b>	<b>PASS</b>	<b>Complies</b>
<b>FCC Part 15:2011 Subpart C Paragraph 15.215(c)</b>	<b>20 dB Bandwidth</b>	<b>PASS</b>	<b>Complies</b>

**3.2 Test Standards****FCC Part 15:2011 Subpart C, Paragraph 15.249****4.0 EUT Modification****No modification by Shenzhen TCT Testing Technology Co., Ltd**

Note: N/A=Not Applicable

## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test



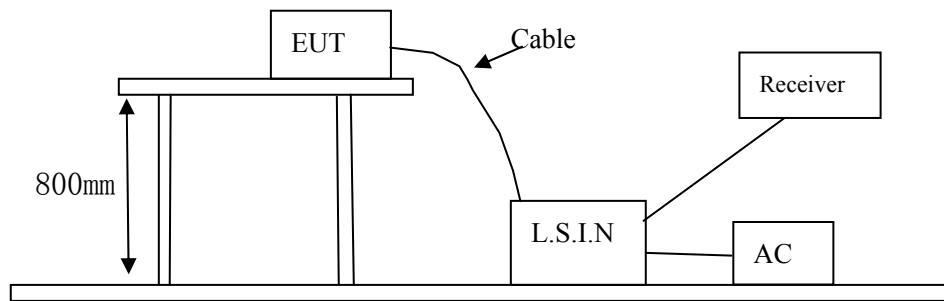
EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2009. The Frequency spectrum From 0.15MHz to 30MHz was investigated.

Test Voltage: 120V~, 60Hz

Block diagram of Test setup



### 5.3 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2009

- A Setup the EUT and simulators as shown on the following
- B Enable AF signal and confirm EUT active to normal condition

### 5.4 Test Equipment

Please refer to the Section 2

## 5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency(MHz)	Class A Lim its (dB $\mu$ V)		Class B Lim its (dB $\mu$ V)	
	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
0.15 ~ 0.50	79.0	66.0	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	73.0	60.0	56.0	46.0
5.00 ~ 30.00	73.0	60.0	60.0	50.0

Notes: 1. \*Decreasing linearly with logarithm of frequency.  
2. The tighter limit shall apply at the transition frequencies

## 5.6 Photo documentation of the test set-up

Please refer to the Section 11

## 5.7 Test specification:

Environmental conditions: Temperature: 23° C Humidity: 53% Atmospheric pressure: 103kPa

Frequency range: 0.15 MHz – 30 MHz

The test was carried out in the following operation mode(s):

- Normal wireless communication

## 5.8 Test result

Min. limit margin

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The requirements are FULFILLED

Remarks: The EUT is powered by batteries, so the test item is not applicable.



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**A Conducted Emission on Line Terminal of the power line (150kHz to 30MHz)**

EUT Description:

Operation Mode:

Tested By:

Test date:

Start Frequency	Stop Frequency	Step	IF BW	Detector	Final M-Time
0.15MHz	30MHz	4.5KHz	10KHz	QP+AV	1s

Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Line		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--
--	--	--	--	--	--	--



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**B Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT Description:

Operation Mode:

Tested By:

Test Data:

Start Frequency	Stop Frequency	Step	IF BW	Detector	Final M-Time
0.15MHz	30MHz	4.5KHz	10KHz	QP+AV	1s

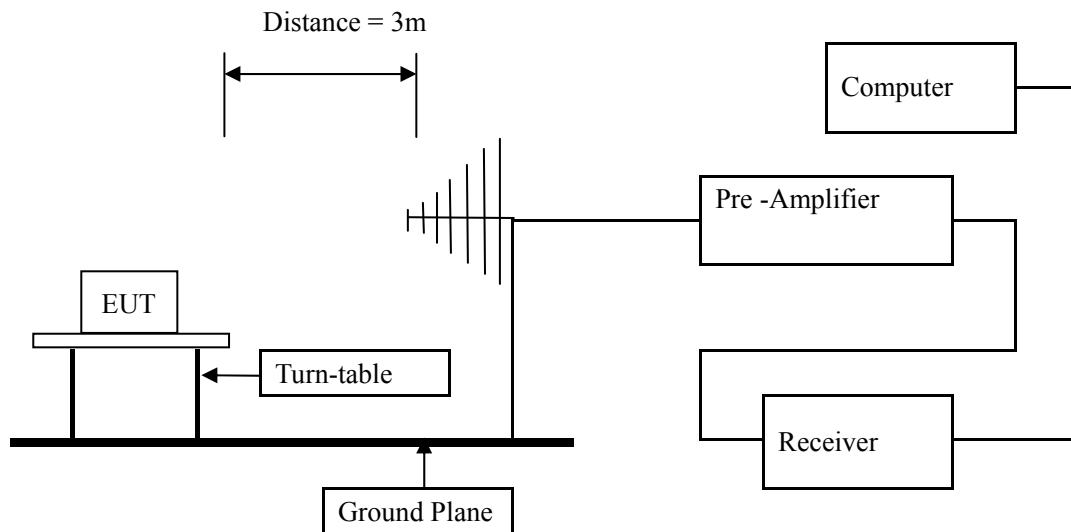
Frequency (MHz)	Reading(dB $\mu$ V)				Limit (dB $\mu$ V)	
	Live		Neutral			
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
--	--	--	--	--		
--	--	--	--	--		
--	--	--	--	--		
--	--	--	--	--		
--	--	--	--	--		
--	--	--	--	--		

## 6 Radiated Emission Test

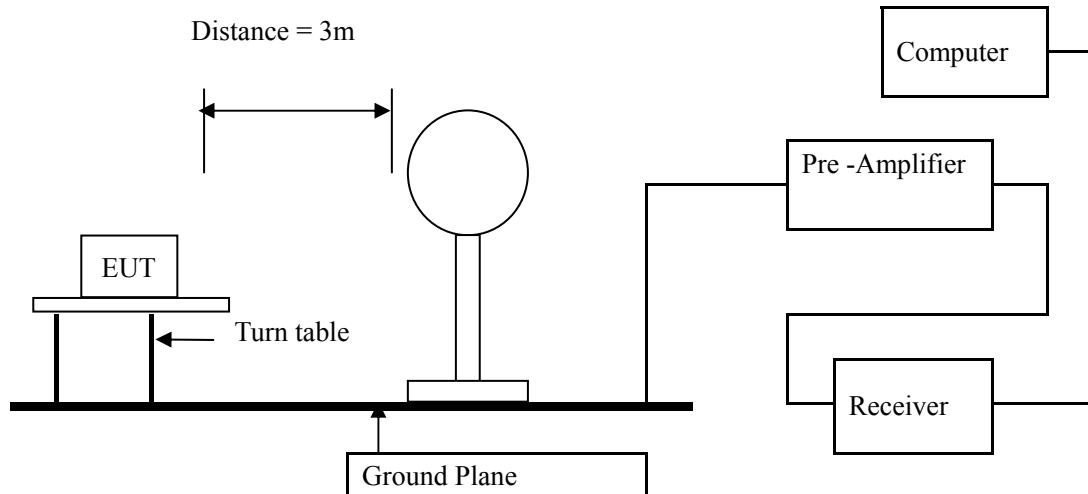
### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10 –2009. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2009.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with a resolution bandwidth of 120 kHz. All readings are above 1 GHz, peak values with a resolution bandwidth of 1 MHz . Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) The antenna polarization: Vertical polarization and Horizontal polarization.

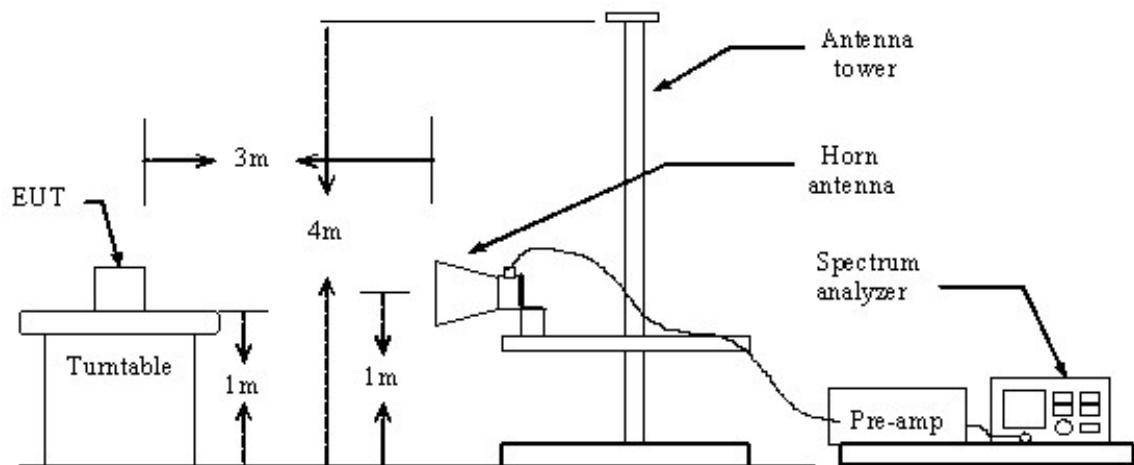
### Block diagram of Test setup



Block diagram of Test setup for frequency below 30MHz



Block diagram of Test setup for frequency above 1GHz



## 6.2 EU T Operating Condition

Operating condition is according to ANSI C63.10 -2009

6.3 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

**A FCC Part 15:2011 Subpart C Paragraph 15.249(a) Limit**

Fundamental Frequency (MHz)	Field Strength of Fundamental (3m)			Field Strength of Harmonics (3m)		
	<b>mV/m</b>	<b>dBuV/m</b>		<b>uV/m</b>	<b>dBuV/m</b>	
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

1. RF Field Strength (dBuV) =  $20 \log_{10} \text{RF Voltage (uV)}$
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. The emission limit in this paragraph is based on measurement instrumentation employing an average detector.

**B. Frequencies in restricted band are complied to limit on Paragraph 15.209.**

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
0.009-0.490	3	$20 \log_{10} 2400/F \text{ (kHz)} + 80$
0.490-1.705	3	$20 \log_{10} 24000/F \text{ (kHz)} + 40$
1.705-30	3	$20 \log_{10} 30 + 40$
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

1. RF Voltage (dBuV) =  $20 \log_{10} \text{RF Voltage (uV)}$
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.
5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK and AV detector.
6. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula  $Ld1 = Ld2 * (d2/d1)$

6.4 Photo documentation of the test set-up

Please refer to the Section 11

6.5 Test Equipment:

Please refer to the Section 2

6.6 Test specification:

Environmental conditions: Temperature 23°C Humidity: 49% Atmospheric pressure: 103kPa

## 6.7 Test result

**A Radiated Emission (9 kHz----30 MHz)**

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

Result: Pass

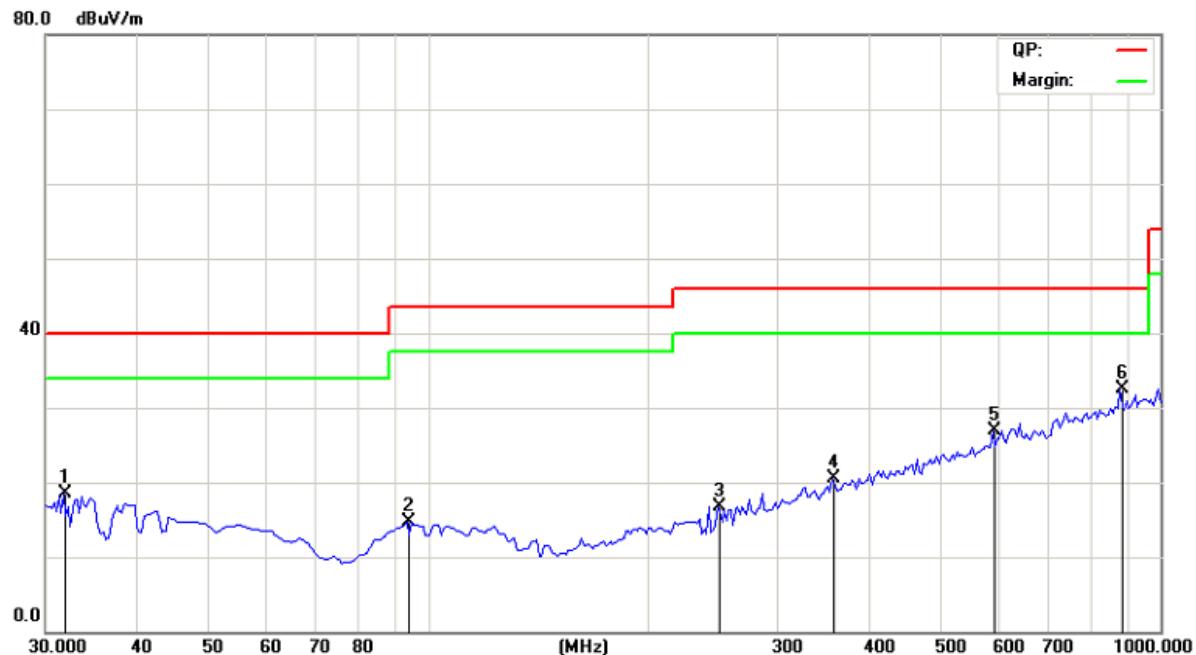
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
--	--	V	--
--	--	H	--
--	--	V	--
--	--	H	--

**B. General Radiated Emissions Data**

**Radiated Emission In Horizontal (30MHz----1000MHz)**

Please refer to following diagram for individual

Low channel: 2403 MHz



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
31.9435	18.59	H	40.00
94.1483	14.76	H	43.50
249.6593	16.65	H	46.00
356.5731	20.57	H	46.00
593.7273	26.83	H	46.00
883.3667	32.41	H	46.00

**Radiated Emission In Vertical (30MHz----1000MHz)**

Please refer to following diagram for individual

Low channel: 2403 MHz



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
42.3314	19.24	V	40.00
64.9943	16.98	V	40.00
100.4711	15.49	V	43.50
255.4910	17.40	V	46.00
642.3246	27.20	V	46.00
879.4790	32.33	V	46.00

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

**C Fundamental & Harmonics Radiated Emission Data (1000MHz-25000MHz)**

<b>Low channel: 2403 MHz</b>				
<b>Frequency (MHz)</b>	<b>Emission PK/AV (dBuV/m)</b>	<b>Horizontal / Vertical</b>	<b>Limits PK/AV (dBuV/m)</b>	<b>Margin (dB)</b>
2403	86.47(PK)	H	114/94	27.53
2403	89.19(PK)	V	114/94	24.81
4806	43.34(PK)	H	74/54	30.66
4806	44.92(PK)	V	74/54	29.08
7209	--	H	74/54	--
7209	--	V	74/54	--
9612	--	H/V	74/54	--
12015	--	H/V	74/54	--
14418	--	H/V	74/54	--
16821	--	H/V	74/54	--
19224	--	H/V	74/54	--
21627	--	H/V	74/54	--
24030	--	H/V	74/54	--

<b>Middle channel: 2441 MHz</b>				
<b>Frequency (MHz)</b>	<b>Emission PK/AV (dBuV/m)</b>	<b>Horizontal / Vertical</b>	<b>Limits PK/AV (dBuV/m)</b>	<b>Margin (dB)</b>
2441	86.81 (PK)	H	114/94	27.19
2441	88.91 (PK)	V	114/94	22.09
4882	44.77 (PK)	H	74/54	29.23
4882	45.18 (PK)	V	74/54	28.82
7323	--	H	74/54	--
7323	--	V	74/54	--
9764	--	H/V	74/54	--
12205	--	H/V	74/54	--
14646	--	H/V	74/54	--
17087	--	H/V	74/54	--
19528	--	H/V	74/54	--
21969	--	H/V	74/54	--
24410	--	H/V	74/54	--

<b>High channel: 2479 MHz</b>				
<b>Frequency (MHz)</b>	<b>Emission PK/AV (dBuV/m)</b>	<b>Horizontal / Vertical</b>	<b>Limits PK/AV (dBuV/m)</b>	<b>Margin (dB)</b>
2479	86.54 (PK)	H	114/94	27.46
2479	90.94 (PK)	V	114/94	23.06
4958	43.94 (PK)	H	74/54	30.06
4958	44.72 (PK)	V	74/54	29.28
7437	--	H/V	74/54	--
9916	--	H/V	74/54	--
12395	--	H/V	74/54	--
14874	--	H/V	74/54	--
17353	--	H/V	74/54	--
19832	--	H/V	74/54	--
22311	--	H/V	74/54	--
24790	--	H/V	74/54	--

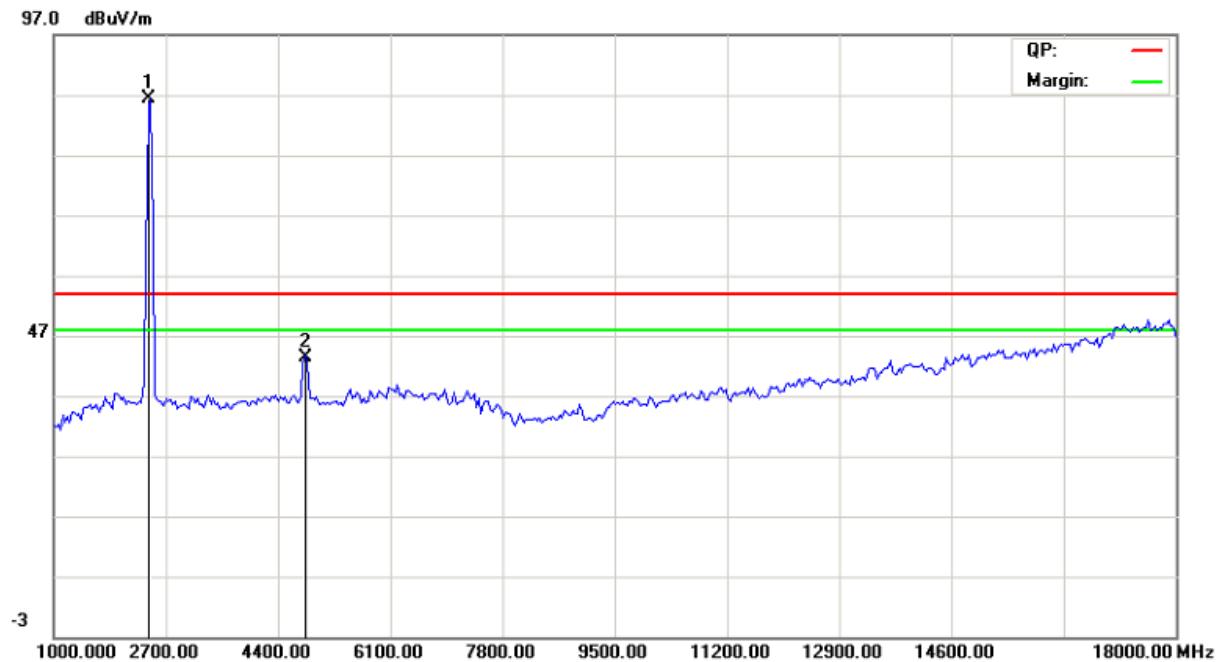
Note:

- 1) PK= Peak, AV= Average
- 2) Emission Level = Reading Level + Antenna Factor + Cable Loss.
- 3) Margin= Limit – Emission Level
- 4) According to section 15.35(b), the peak limit is 20dB higher than the average limit
- 5) If the peak measured value complies with the average limit, it is unnecessary to perform an average measurement.
- 6) It is the floor noise from 18-25GHz, which is deemed to comply with the requirement of the rule.

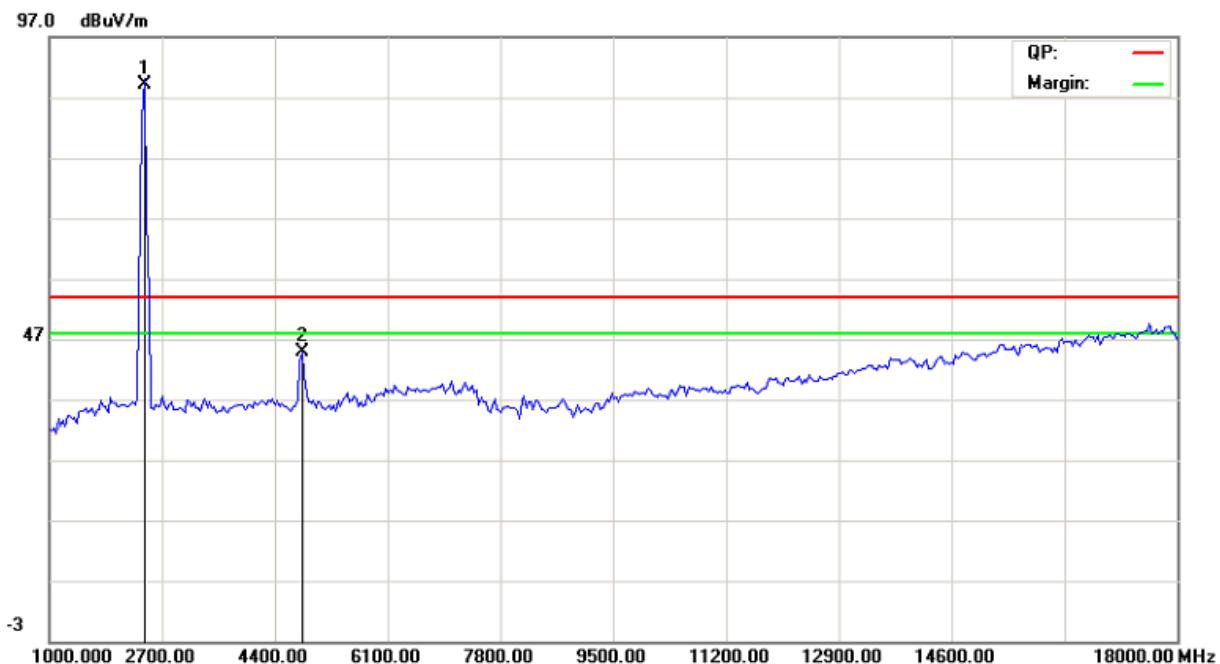
Please refer to the following diagram for individual

Low Channel: 2403 MHz

H



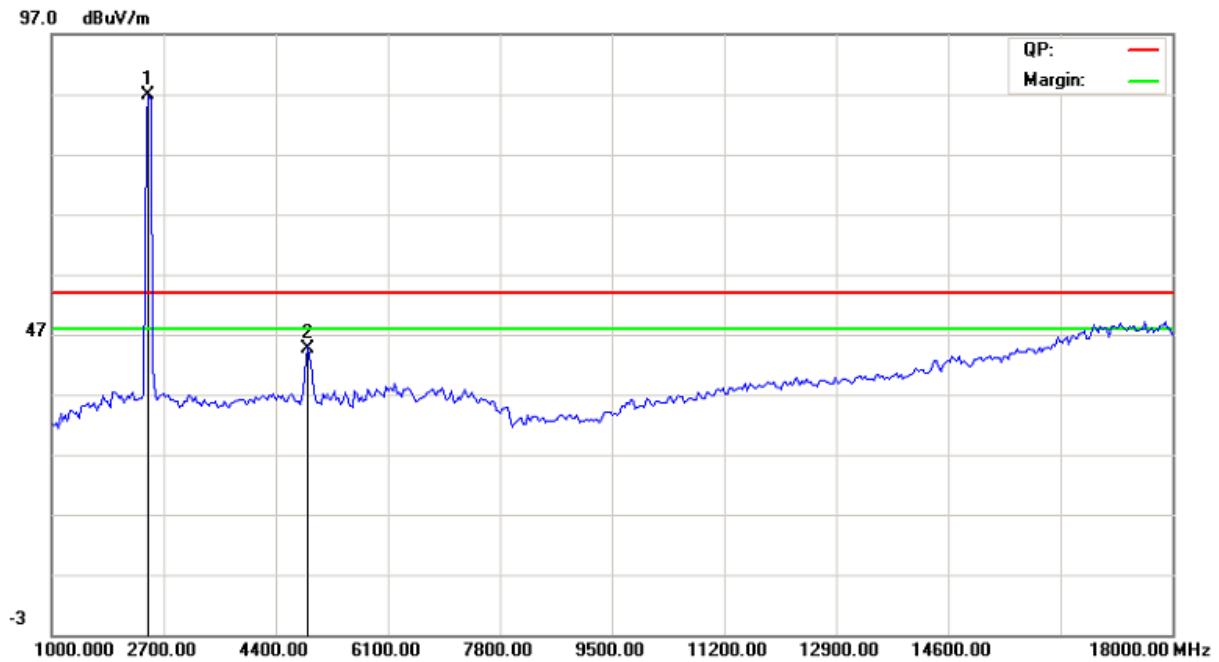
V



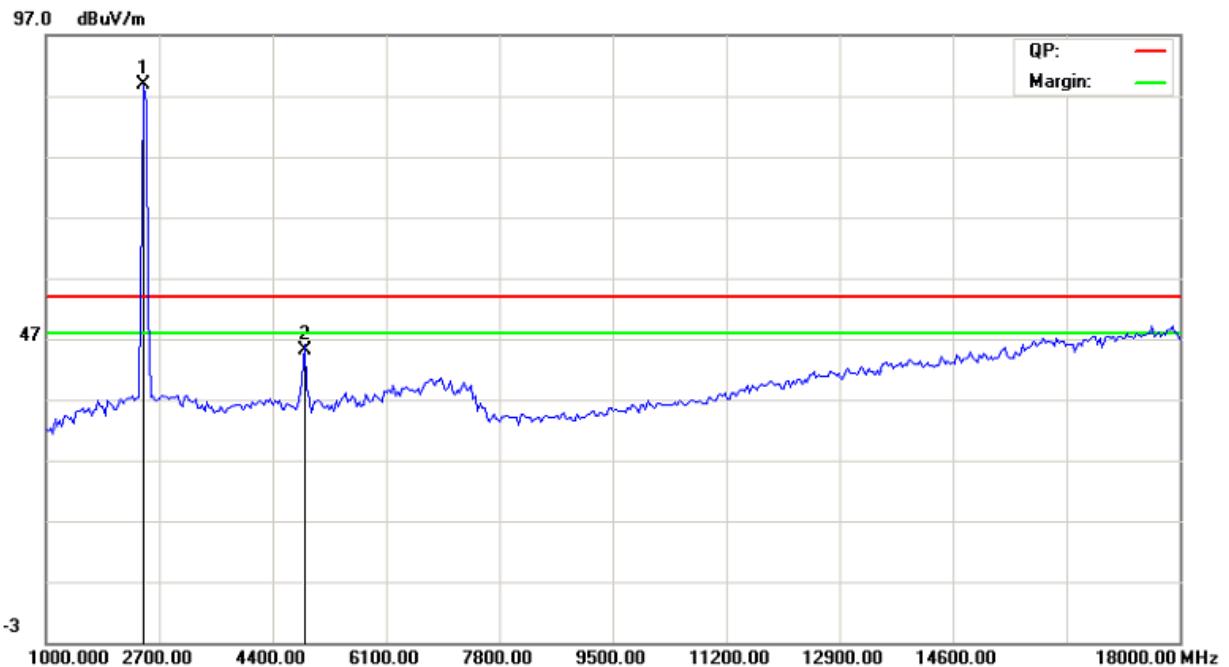
Please refer to following diagram for individual

Middle Channel: 2441 MHz

H



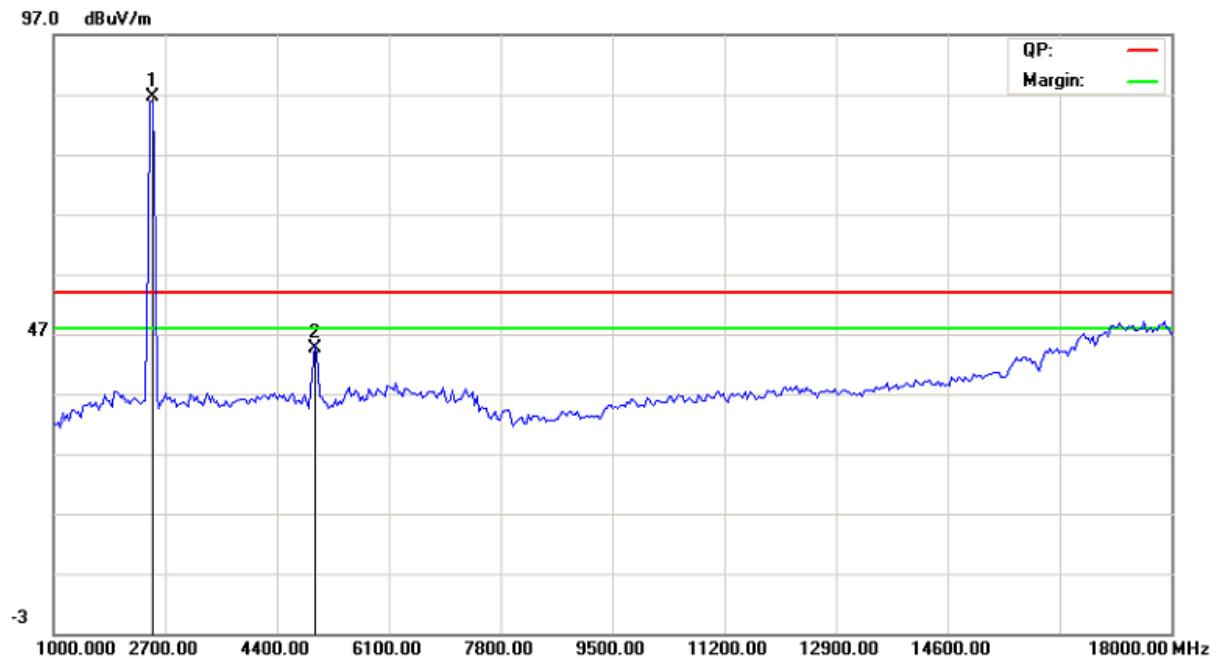
V



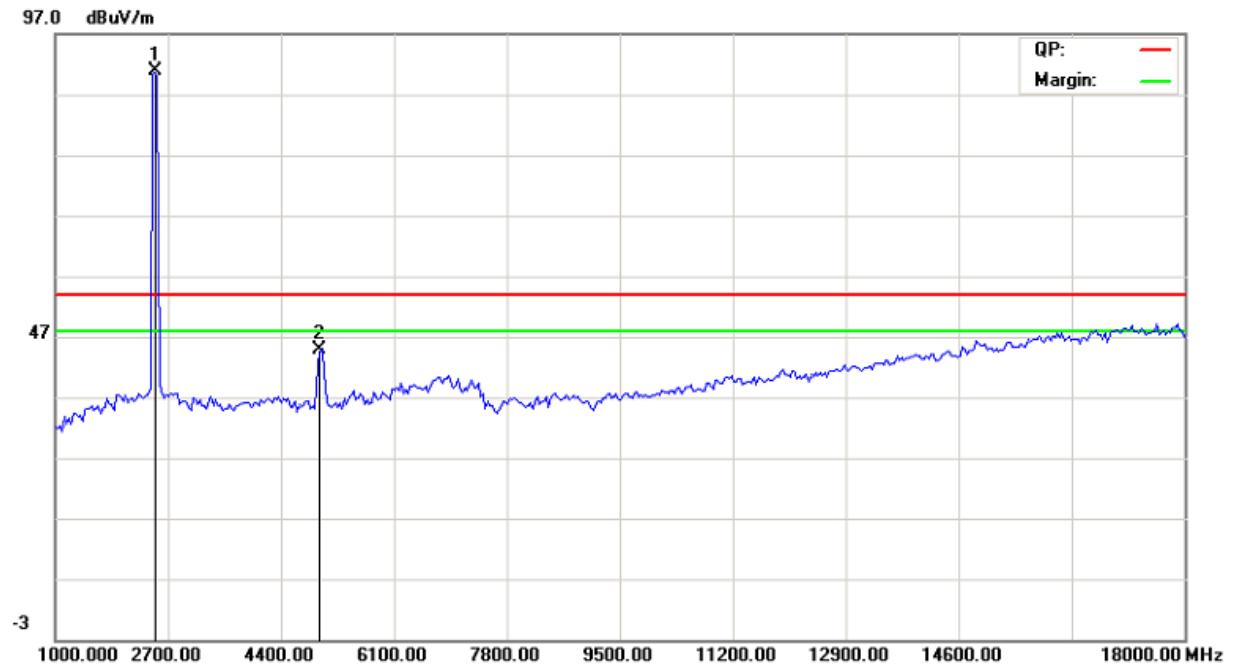
Please refer to following diagram for individual

High Channel: 2479 MHz

H



V

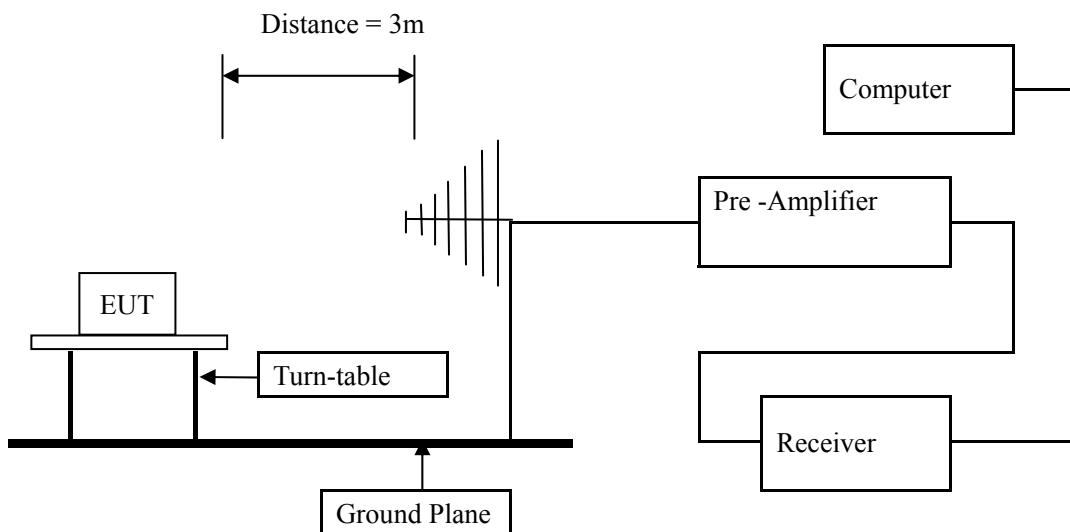


## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10 –2009. The radiated test was performed at Timeway Laboratory. This site is on file with the FCC laboratory division, Registration No.899988
- (2) Set Spectrum as RBW=VBW=1MHz and Peak detector used
- (3) The antenna height is varied from 1 m to 4 m to find the maximum emission for the frequency measured.
- (4) The antenna polarization: Vertical polarization and Horizontal polarization.

### 7.2 Radiated Test Setup



For the actual test configuration , please refer to the related items – Photos of Testing

### 7.3 Band Edge Limit

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.

### 7.4 Test Equipment

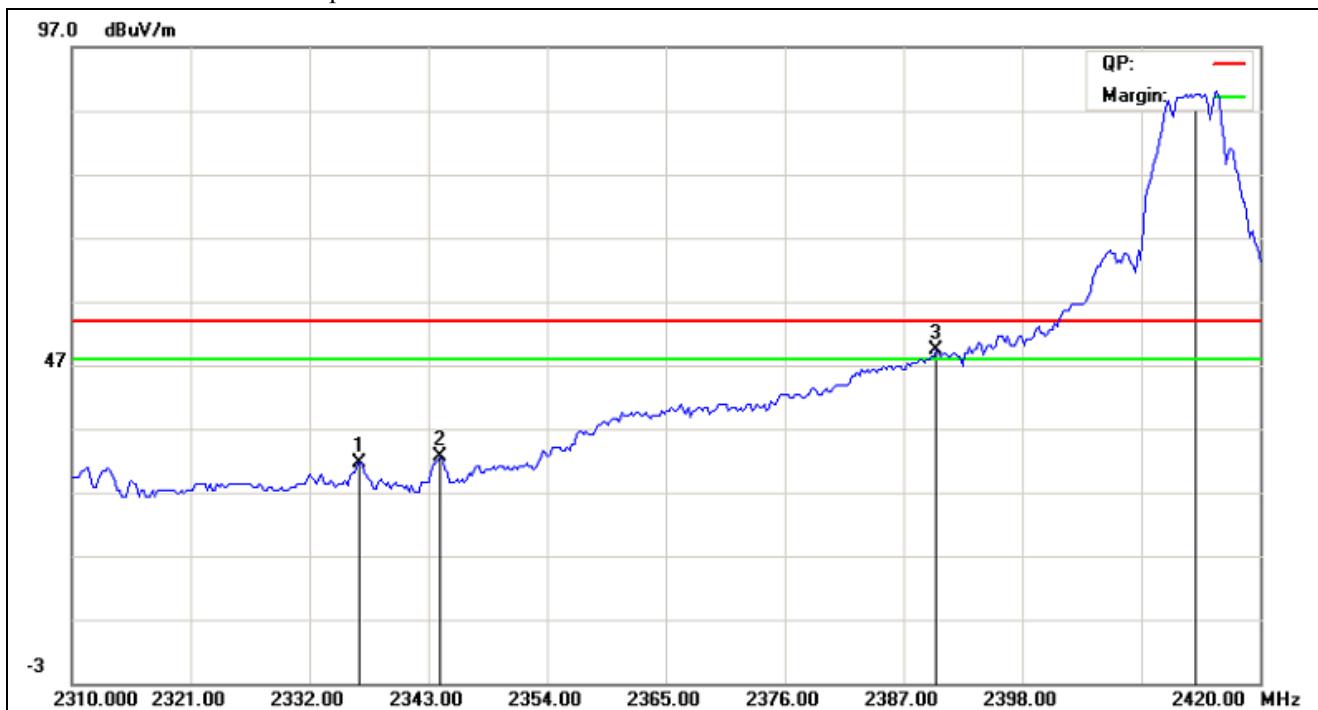
Please refer to the Section 2

### 7.5 Test Procedure

- 1) The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
- 2) The turntable was rotated for 360 degrees to determine the position of maximum emission level.
- 3) EUT is set 3m away from the antenna, which is varied from 1m to 4m to find out the highest emission.
- 4) Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
  - (a) PEAK: RBW=VBW=1MHz, PK detector, Sweep=AUTO
  - (b) AVERAGE: RBW=1MHz / VBW=10Hz / PK detector Sweep=AUTO

## 7.6 Test Result

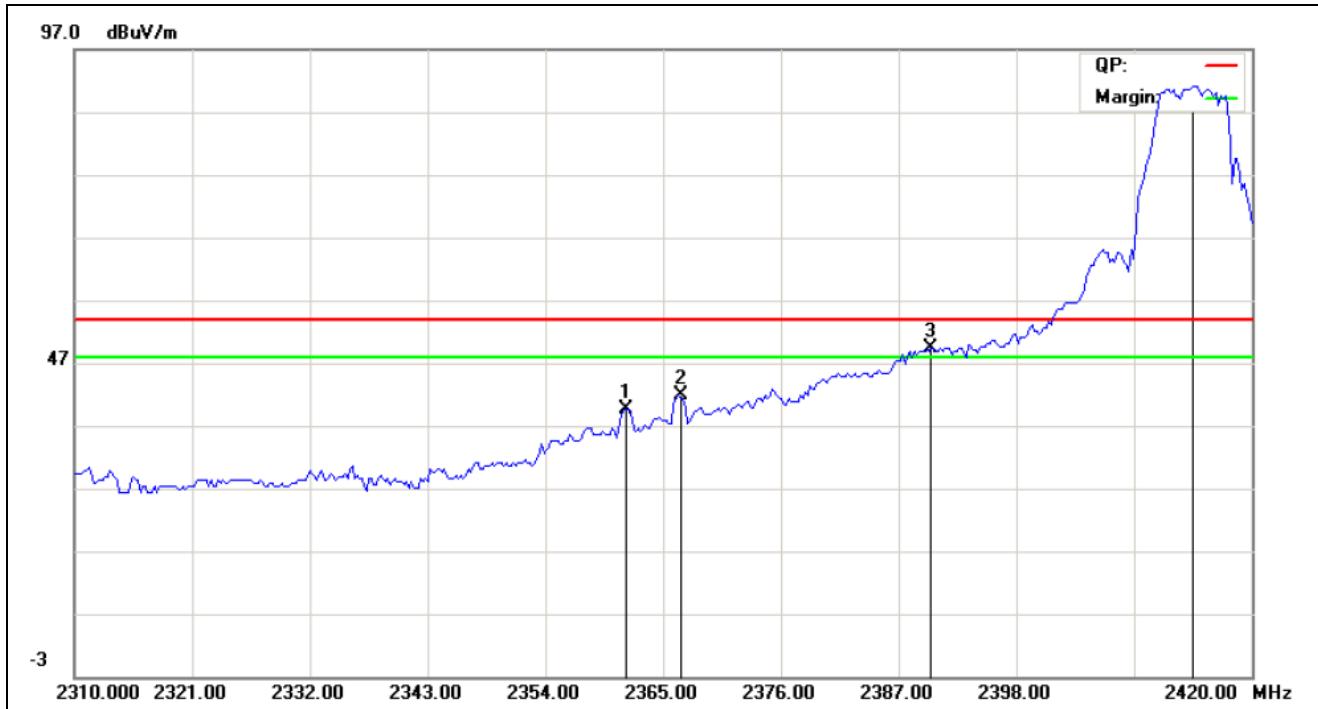
Low channel in Horizontal polarization



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Detector	Limit@3m (dB $\mu$ V/m)
2336.673	31.52	Peak	74.00
2344.168	32.58	Peak	74.00
2390.000	49.47	Peak	74.00
2414.048	89.61	Peak	114.00

Note: 1. Emission Level = Reading Level + Antenna Factor + Cable Loss.  
 2. Margin= Limit – Emission Level  
 3. According to section 15.35(b), the peak limit is 20dB higher than the average limit

**Low channel in Vertical polarization**



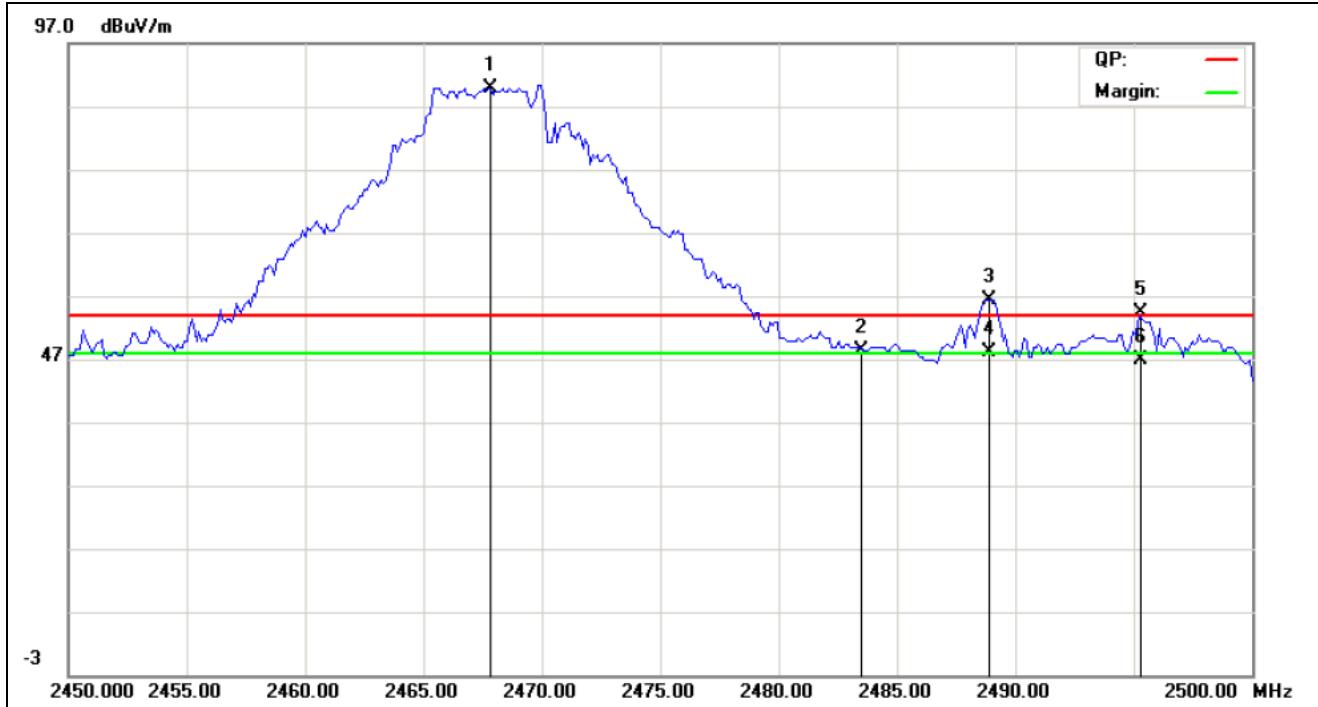
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Detector	Limit@3m (dB $\mu$ V/m)
2361.363	39.73	Peak	74.00
2366.433	41.77	Peak	74.00
2390.000	49.47	Peak	74.00
2414.048	91.11	Peak	114.00

Note: 1. Emission Level = Reading Level + Antenna Factor + Cable Loss.

2. Margin= Limit – Emission Level

3. According to section 15.35(b), the peak limit is 20dB higher than the average limit

High channel in Horizontal polarization



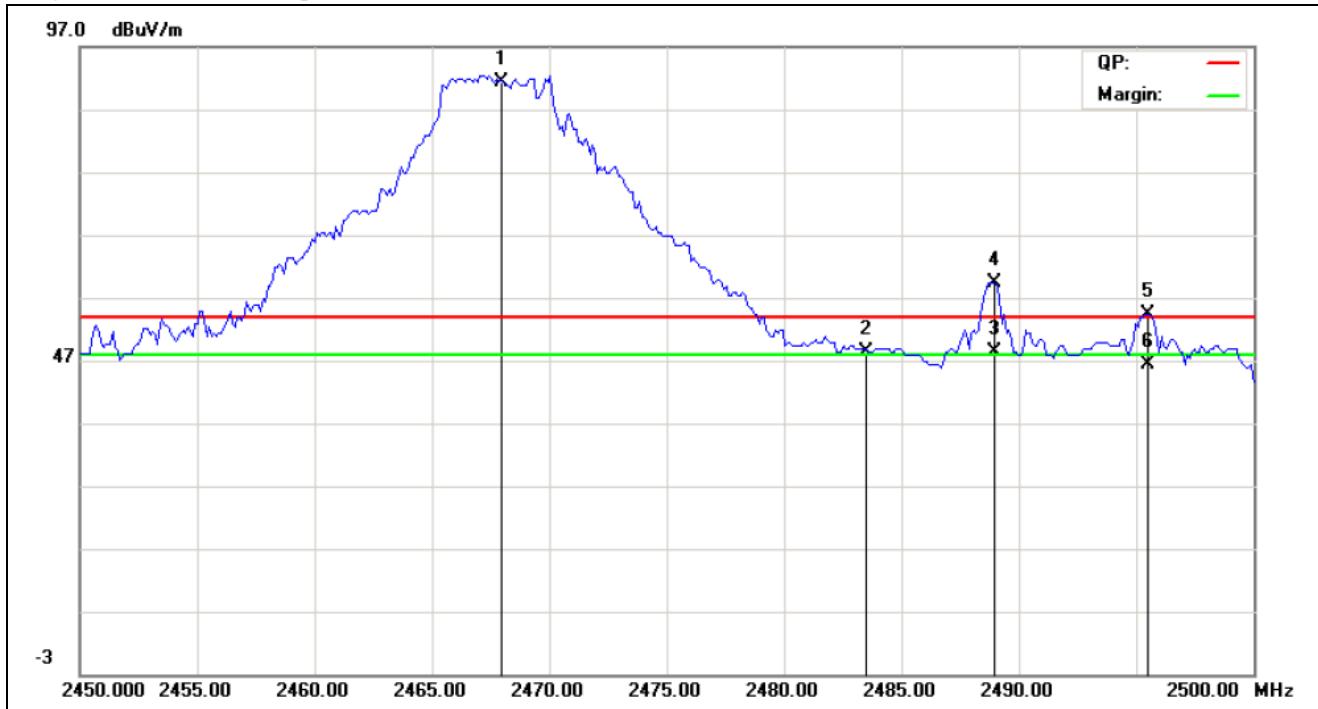
Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Detector	Limit@3m (dB $\mu$ V/m)
2467.535	89.80	peak	114.00
2483.500	48.38	peak	74.00
2488.778	56.38	peak	74.00
2488.778	48.10	AV	54.00
2495.291	54.42	peak	74.00
2495.291	46.90	AV	54.00

Note: 1. Emission Level = Reading Level + Antenna Factor + Cable Loss.

2. Margin= Limit – Emission Level

3. According to section 15.35(b), the peak limit is 20dB higher than the average limit

High channel in Vertical polarization



Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Detector	Limit@3m (dB $\mu$ V/m)
2467.635	91.34	peak	114.00
2483.500	48.32	peak	74.00
2488.878	59.38	peak	74.00
2488.878	48.43	AV	54.00
2495.391	54.92	peak	74.00
2495.391	46.43	AV	54.00

Note: 1. Emission Level = Reading Level + Antenna Factor + Cable Loss.

2. Margin= Limit – Emission Level

3. According to section 15.35(b), the peak limit is 20dB higher than the average limit



Shenzhen TCT Testing Technology Co., Ltd.

## 8.0 Antenna Requirement

### **Applicable Standard**

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 shall be considered sufficient to comply with the provisions of this section.

A PCB printed antenna was used and the maximum Gain of the antenna is 2dBi.

Test Result: Pass

## 9.0 20dB Bandwidth Measurement

### 9.1 Test Equipment

Please refer to the Section 2

### 9.2 Test specification:

Environmental conditions: Temperature 22° C Humidity: 51% Atmospheric pressure: 103kPa

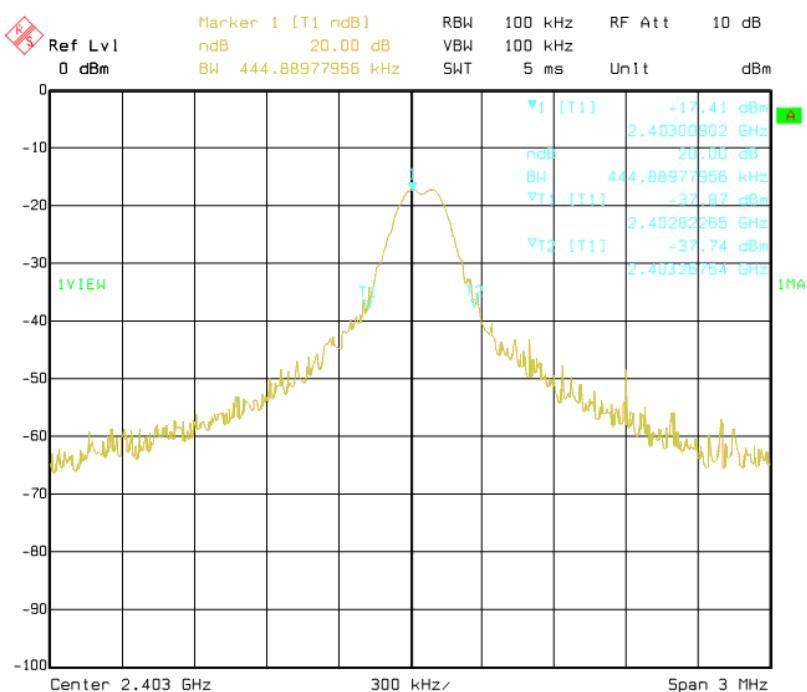
### 9.3 Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

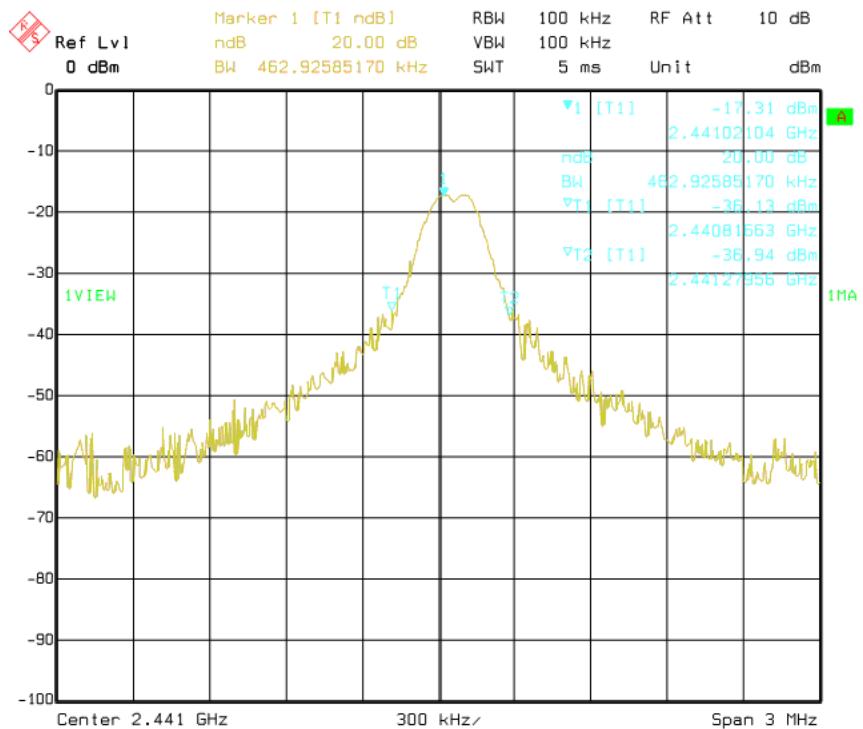
### 9.4 Test Result:

Channel number	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
(Low)	372.74	---	PASS
(Middle)	378.76	---	PASS
(High)	378.76	---	PASS

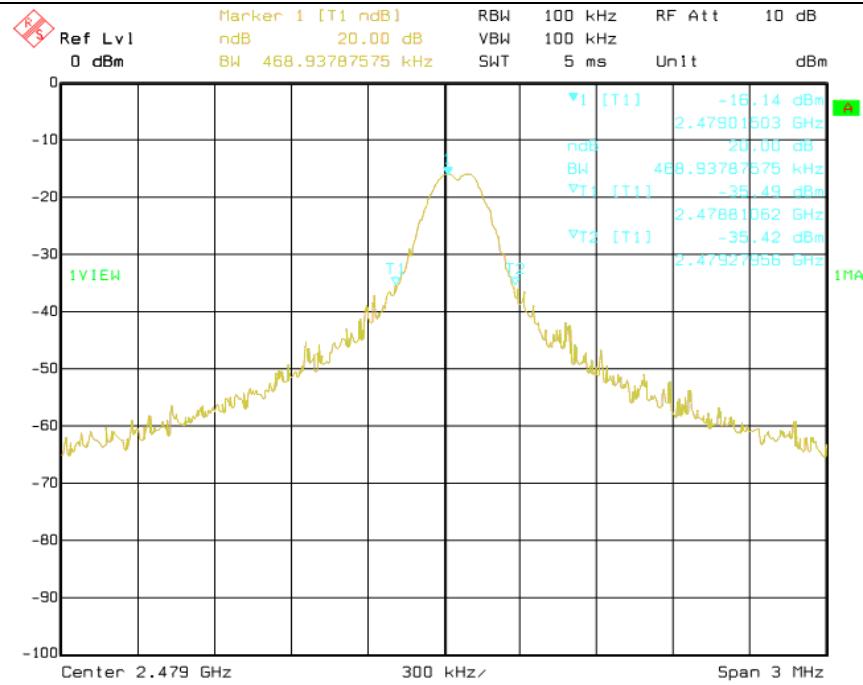
Low channel: 2403 MHz



Middle channel



High channel



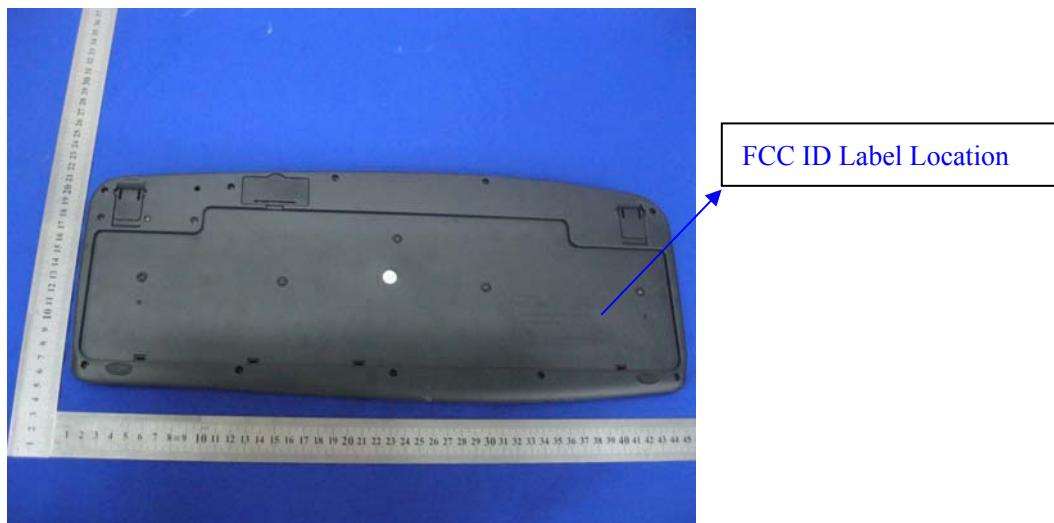
## 10.0 FCC ID Label

**FCC ID: ZX3KB8706**

**This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.**

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

**Mark Location:**



**11.0 Photos of testing**

11.1 Conducted test View--

N/A

11.2 Radiated emission test view

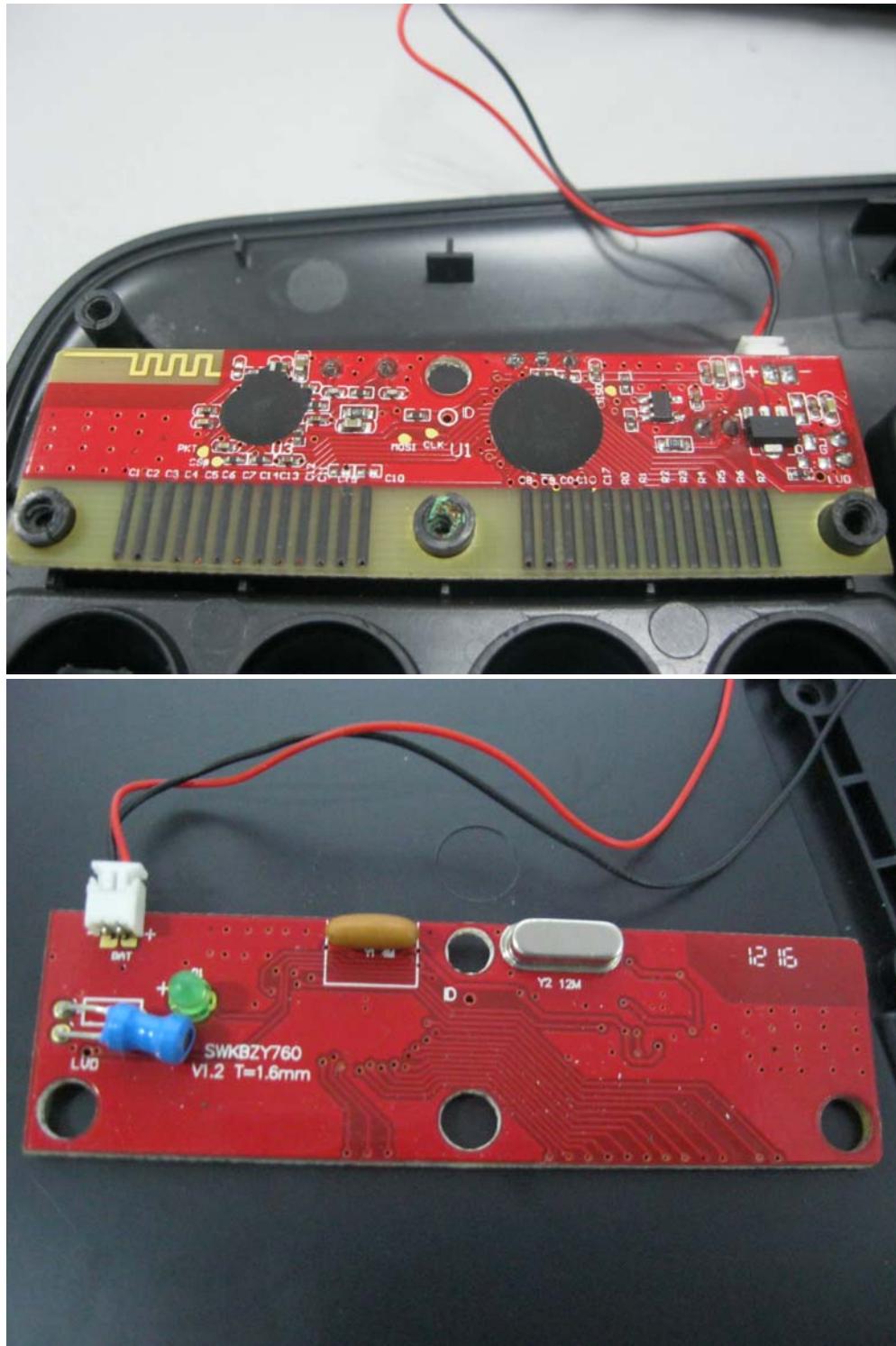


## 12 Photos for the EUT

Outside View of the EUT



Inside View of the EUT



--End of the report--