



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

# FCC ID TEST REPORT

for

**Bluetooth keyboard**

**MODEL:  
KT-76A**

**FCC ID: ZWB-KT-76A**

**Test Report Number: PTS11083148E**

**Issued Date: August 17, 2011**

Issued for

**KEAU ELECTRONIC TECHNOLOGY CO., LIMITED**

**Rm3208, Taihua building A, 45district, Baoan, Shenzhen, GD,  
China**

Issued By:

**DongGuan Precise Testing Service Co.,Ltd.**

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**PRECISE TESTING**

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

**Revision History Of Report**

Rev.	Issue No.	Revisions	Effect Page	Revised By
00	PTS11083148E	Initial Issue	ALL	Lisa Zhu



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

## TABLE OF CONTENTS

<b>1 TEST CERTIFICATION.....</b>	<b>4</b>
<b>2 TEST RESULT SUMMARY .....</b>	<b>5</b>
<b>3 EUT DESCRIPTION .....</b>	<b>6</b>
<b>4 TEST METHODOLOGY .....</b>	<b>7</b>
4.1. DECISION OF FINAL TEST MODE.....	7
4.2. EUT SYSTEM OPERATION .....	7
<b>5 SETUP OF EQUIPMENT UNDER TEST.....</b>	<b>8</b>
5.1. DESCRIPTION OF SUPPORT UNITS .....	8
5.2. CONFIGURATION OF SYSTEM UNDER TEST .....	8
<b>6 FACILITIES AND ACCREDITATIONS .....</b>	<b>9</b>
<b>6.2 MEASUREMENT UNCERTAINTY .....</b>	<b>9</b>
<b>7 TEST REQUIREMENTS.....</b>	<b>9</b>
7.1. CONDUCTED EMISSION MEASUREMENT.....	9
7.2. Radiation Emission Test .....	14
7.3. Band edge test.....	20
8. Antenna requirement.....	25



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

## 1 TEST CERTIFICATION

<b>Product:</b>	Bluetooth keyboard
<b>Model:</b>	KT-76A
<b>Applicant:</b>	<b>KEAU ELECTRONIC TECHNOLOGY CO., LIMITED</b> Rm3208, Taihua building A, 45district, Baoan, Shenzhen, GD, China
<b>Factory:</b>	<b>KEAU ELECTRONIC TECHNOLOGY CO., LIMITED</b> Rm3208, Taihua building A, 45district, Baoan, Shenzhen, GD, China
<b>Trade Mark:</b>	N/A
<b>Tested:</b>	August 15, 2011 - August 17, 2011
<b>Test Voltage:</b>	DC 3.7V for operating DC 5V for charging
<b>Applicable Standards:</b>	FCC Part 15:Subpart C ANSI C63.4:2003

The above equipment has been tested by DongGuan Precise Testing Service Co.,Ltd. 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.

*Davis Ma*  
Tested By: \_\_\_\_\_

Date: August 17, 2011

(Davis Ma)

*Merry Zhao*  
Check By: \_\_\_\_\_

Date: August 17, 2011

(Merry Zhao)

*Lisa Zhu*  
Approved By: \_\_\_\_\_

Date: August 17, 2011

(Lisa Zhu)



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

## 2 TEST RESULT SUMMARY

Standard	Item	Result
FCC Part 15 Subpart C: Clause 15.249	Conducted emission Test	PASS
	Radiation Emission Test	PASS
	Band Edge Test	PASS

**Note:** 1. The test result judgment is decided by the limit of test standard  
2. The information of measurement uncertainty is available upon the customer's request.



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

### 3 EUT DESCRIPTION

<b>Product</b>	KEAU ELECTRONIC TECHNOLOGY CO., LIMITED
<b>Trade Mark</b>	N/A
<b>Model</b>	KT-76A
<b>Applicant</b>	KEAU ELECTRONIC TECHNOLOGY CO., LIMITED
<b>Serial Number</b>	N/A
<b>Antenna Type</b>	PCB Antenna
<b>EUT Power Rating</b>	DC 3.7V for operating/DC 5V for charging
<b>Temperature Range(Operating)</b>	+15 ~+ 35°C
<b>Operating Frequency</b>	2402MHz to 2480MHz
<b>Number of Channels</b>	79 Channels

*Note: N/A stand for no applicable.*

#### Models difference

N/A



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

## 4 TEST METHODOLOGY

### 4.1. DECISION OF FINAL TEST MODE

The EUT was tested together with the below additional components, and configuration, which produced the worst emission levels, was selected and recorded in this report.

The measurement was performed at 3 axis for lie orientation, side orientation and stand orientation. The lie orientation is the worst mode, so only the worst mode test data was reported.

The following test mode was recorder in this report.

Test item	Test mode
Conducted emission Test	CHARGING
Radiation Emission Test	CH1, CH40, CH79
Band Edge Test	CH1, CH79,

### 4.2. EUT SYSTEM OPERATION

1. Set up EUT with the support equipments.
2. Make sure the EUT transmitting continously during the test.



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

## 5 SETUP OF EQUIPMENT UNDER TEST

### 5.1. 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.

Manufacturer	Description	Model	Serial Number	FCC
Adapter	M-SAW83A	HCA31707689	N/A	HP

**Note:**

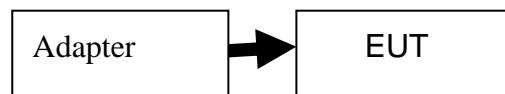
- 1) All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2) Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

### 5.2. CONFIGURATION OF SYSTEM UNDER TEST

FOR OPERATING



FOR CHARGING





PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

## 6 FACILITIES AND ACCREDITATIONS

### 6.1 FACILITIES

The test site used to collect the radiated data is located on the address of emitel (Shenzhen) Limited

(FCC Registered Test Site Number: 746887) on  
Building 2, 171 Meihua Road, Futian District, Shenzhen, 518049 China  
The Test Site is constructed and calibrated to meet the FCC requirements.

### 6.2 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency		Uncertainty
Conducted emissions	9kHz~30MHz		+/- 3.59dB
Radiated emissions	Horizontal	30MHz ~ 200MHz	+/- 4.77dB
		200MHz ~1000MHz	+/- 4.93dB
	Vertical	30MHz ~ 200MHz	+/- 5.04dB
		200MHz ~1000MHz	+/- 4.93dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

## 7 TEST REQUIREMENTS

### 7.1. CONDUCTED EMISSION MEASUREMENT

#### 7.1.1. LIMITS

FREQUENCY (MHz)	Class B (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

#### NOTE:

- (1) The lower limit shall apply at the transition frequencies.
- (2) The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50 MHz.
- (3) All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

**PRECISE TESTING**

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

### 7.1.2. TEST INSTRUMENTS

Conducted Emission Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	R&S	ESCI	100005	06/23/2012
LISN	AFJ	LS16	16010222119	09/29/2011
LISN(EUT)	Mestec	AN3016	04/10040	09/28/2011

**NOTE:** 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).  
 2. N.C.R = No Calibration Request.

### 7.1.3. TEST PROCEDURES

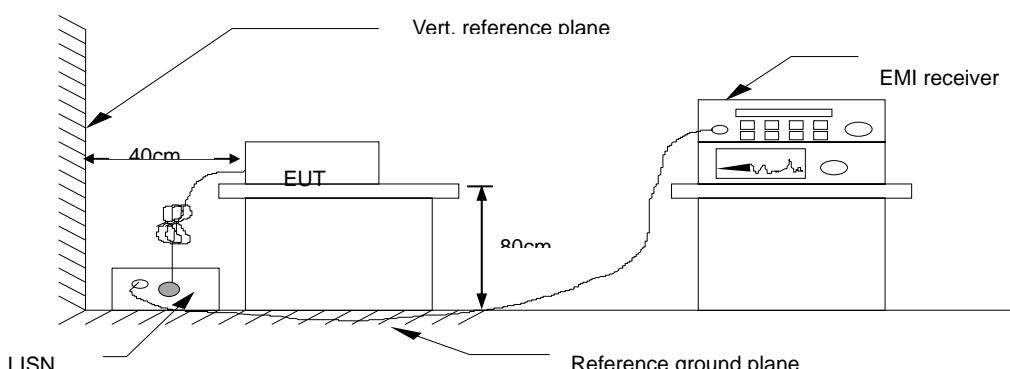
The EUT was put on a wooden table which was 0.8metre high above the ground and connected to the AC mains through a Artificial Mains Network (A.M.N). The mains lead in excess of 1 m separating the EUT from the AMN was folded back and forth parallel to the lead so as to form a bundle with a length of 0.3m to 0.4m. The EUT was kept 0.4m from any other earthed conducting surface. Both sides of AC line were checked to find out the maximum conducted emission levels according to the test procedure during conducted emission test.

The bandwidth of the test receiver (ESCI) was set at 9KHz.

The frequency range from 150 KHz to 30 MHz was investigated.

The test data of the worst-case condition(s) was recorded.

### 7.1.4. TEST SETUP



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

### 7.1.5. Test Result

<b>Model No.</b>	KT-76A	<b>6dB Bandwidth</b>	10 KHz
<b>Environmental Conditions</b>	26°C, 55% RH	<b>Test Mode</b>	Charging
<b>Detector Function</b>	Peak / Quasi-peak/AV	<b>Test Result</b>	Pass
<b>Test By</b>	Davis Ma		

NOTE:

L1 = Line One (Live Line) / L2 = Line Two (Neutral Line).

“---” denotes the emission level was or more than 2dB below the Average limit, so no re-check anymore.

Freq. = Emission frequency in MHz

Reading level(dBuV) = Receiver reading

Corr. Factor (dB) = Attenuator factor + Cable loss

Level (dBuV) = Reading level(dBuV) + Corr. Factor (dB)

Limit (dBuV) = Limit stated in standard

Margin (dB) = Level (dBuV) – Limits (dBuV)

Q.P.=Quasi-Peak

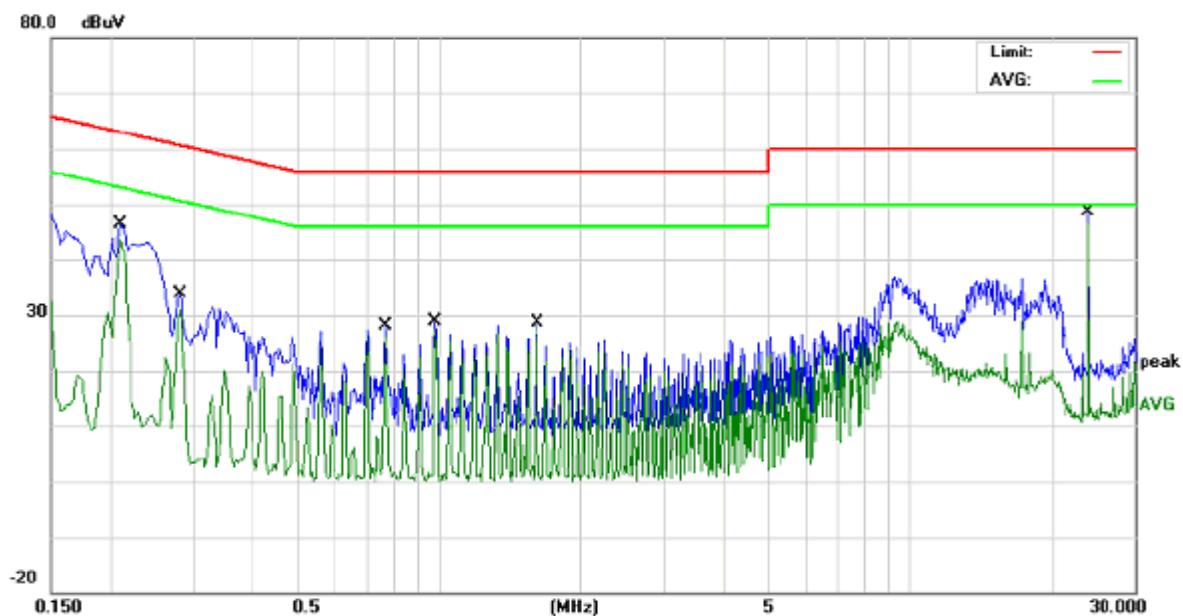


PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

### Conducted Emission Measurement



Site 843 Shielded Room

Phase:

L1

Temperature: 26

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dB	Over Detector	Comment
1		0.2100	33.34	10.74	44.08	63.20	-19.12	QP
2		0.2100	32.92	10.74	43.66	53.20	-9.54	AVG
3		0.2819	20.45	10.84	31.29	60.76	-29.47	QP
4		0.2819	19.61	10.84	30.45	50.76	-20.31	AVG
5		0.7700	16.46	10.39	26.85	56.00	-29.15	QP
6		0.7700	15.79	10.39	26.18	46.00	-19.82	AVG
7		0.9820	17.74	10.26	28.00	56.00	-28.00	QP
8		0.9820	17.03	10.26	27.29	46.00	-18.71	AVG
9		1.6140	17.57	10.27	27.84	56.00	-28.16	QP
10		1.6140	17.10	10.27	27.37	46.00	-18.63	AVG
11		23.9980	37.69	10.28	47.97	60.00	-12.03	QP
12	*	23.9980	36.56	10.28	46.84	50.00	-3.16	AVG

\*:Maximum data x:Over limit l:over margin

(Reference Only)

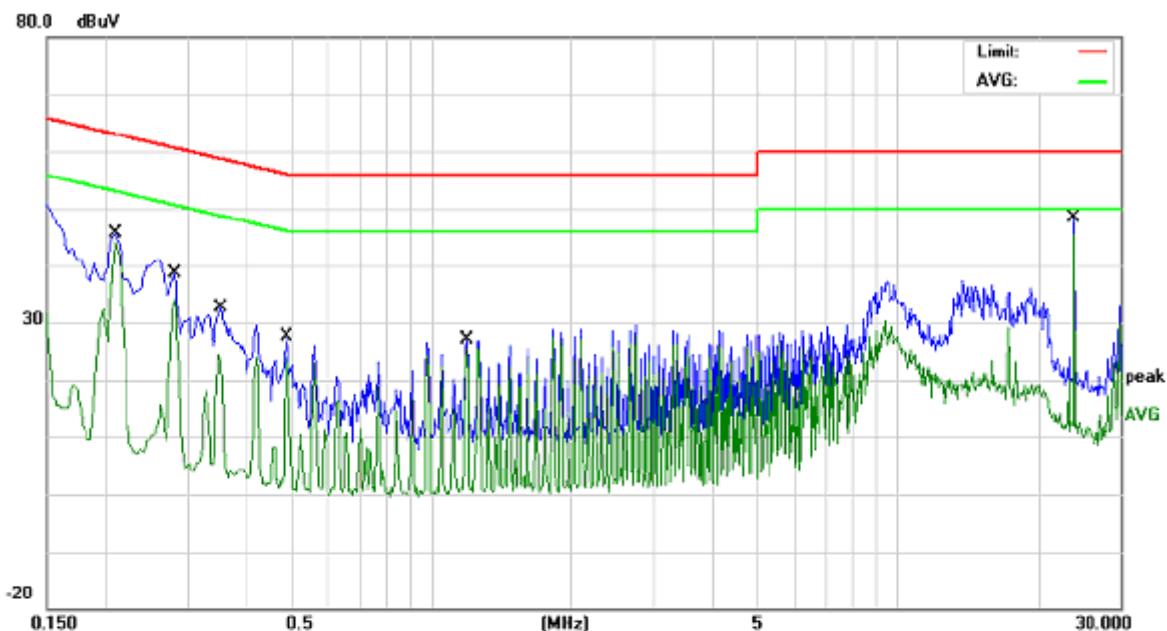


PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

### Conducted Emission Measurement



Site 843 Shielded Room

Phase: **N**

Temperature: 26

Humidity: 55 %

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.2100	33.52	10.74	44.26	63.20	-18.94	QP	
2		0.2100	33.54	10.74	44.28	53.20	-8.92	AVG	
3		0.2819	24.83	10.84	35.67	60.76	-25.09	QP	
4		0.2819	22.94	10.84	33.78	50.76	-16.98	AVG	
5		0.3540	14.25	10.78	25.03	58.87	-33.84	QP	
6		0.3540	11.23	10.78	22.01	48.87	-26.86	AVG	
7		0.4900	14.62	10.56	25.18	56.17	-30.99	QP	
8		0.4900	13.47	10.56	24.03	46.17	-22.14	AVG	
9		1.1940	15.80	10.26	26.06	56.00	-29.94	QP	
10		1.1940	14.96	10.26	25.22	46.00	-20.78	AVG	
11		23.9980	37.65	10.28	47.93	60.00	-12.07	QP	
12	*	23.9980	36.50	10.28	46.78	50.00	-3.22	AVG	

\*:Maximum data x:Over limit !:over margin

(Reference Only)



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

## 7.2. Radiation Emission Test

### 7.2.1. Limits

According to 15.249 the field strength of emissions from intentional radiators operated under these frequencies bands shall not exceed the following:

Fundamental Frequency	Field Strength of Fundamental		Field Strength of Spurious	
	mV/meter	dBuV/meter	uV/meter	dBuV/meter
902-928MHz	50	94	500	54
2400-2483.5MHz	50	94	500	54
5725-5875MHz	50	94	500	54
24.0-24.25GHz	250	108	2500	68

The above field strength limits are specified at a distance of 3 meters. Emissions radiated outside of the specified bands,shall be according to the general radiated limits in 15.209 as following:

Frequencies (MHz)	Field strength uV/meter	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

#### Frequency Range of Radiated Measurement

According to 15.33(a), the intentional radiator operates below 10GHz, must be measured up to the tenth harmonic of the highest fundamental frequency or 40GHz, whichever is lower

**PRECISE TESTING**

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

**7.2.2. TEST INSTRUMENT**

966 Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100005	06/23/2012
Spectrum Analyzer	R&S	FSU	100114	04/14/2012
Pre Amplifier	H.P.	HP8447E	2945A02715	06/23/2012
Pre-Amplifier	Compliance	PAM0118	1360976	06/04/2012
Bilog Antenna	SUNOL Sciences	JB3	A021907	06/10/2012
Horn Antenna	Compliance	CE18000	001	06/10/2012
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	06/09/2012
Cable	TIME MICROWAVE	--	--	06/09/2012
System-Controller	CCS	N/A	N/A	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R

**7.2.3. Test procedure**

The EUT was placed on a turn table which was 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was set 3 meters away from the receiving antenna which was mounted on a antenna tower. At the frequency band of 30MHz to 1GHz, The measuring antenna moved up and down to find out the maximum emission level. It moved from 1 to 4 m for horizontal and vertical polarizations. The broadband antenna (calibrated by dipole antenna) was used as a receiving antenna. At the frequency band of 1GHz to 18GHz, The measuring antenna moved from 1 to 4 m for horizontal and vertical polarization. The horn antenna was used as a receiving antenna.

The resolution bandwidth and video bandwidth of the test receiver was 120 KHz and 300KHz for Quasi-peak detection at frequency below 1GHz.

The resolution bandwidth and video bandwidth of the test receiver was 1MHz and 3MHz for Peak emssion mesurement above 1GHz .

For Average emssion above 1GHz , the resolution bandwidth and video bandwidth of the test receiver was 1MHz and 10Hz.

The EUT was tested in Chamber Site.

The test data of the worst case condition(s) was reported on the following pages.



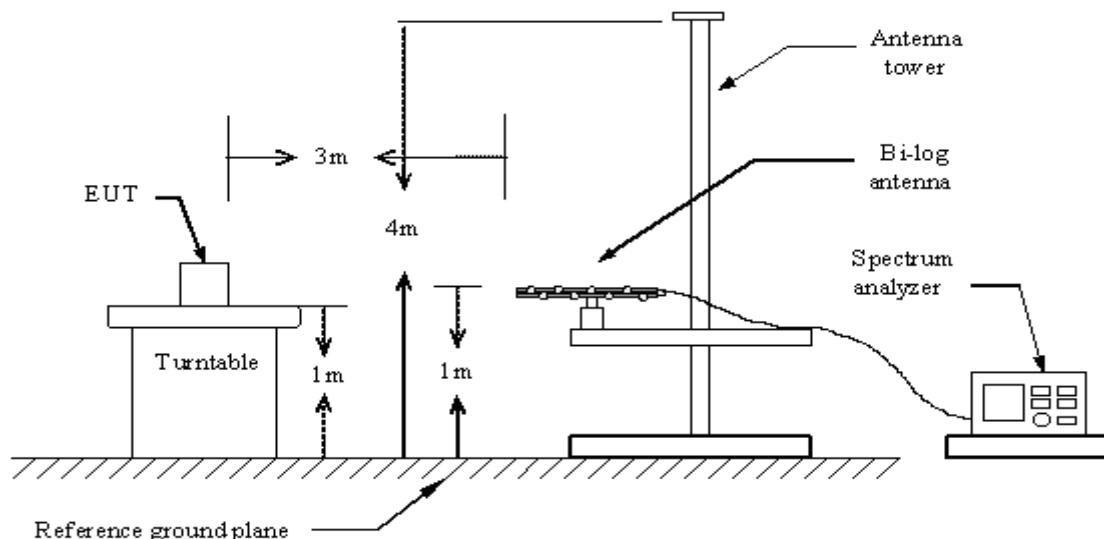
PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

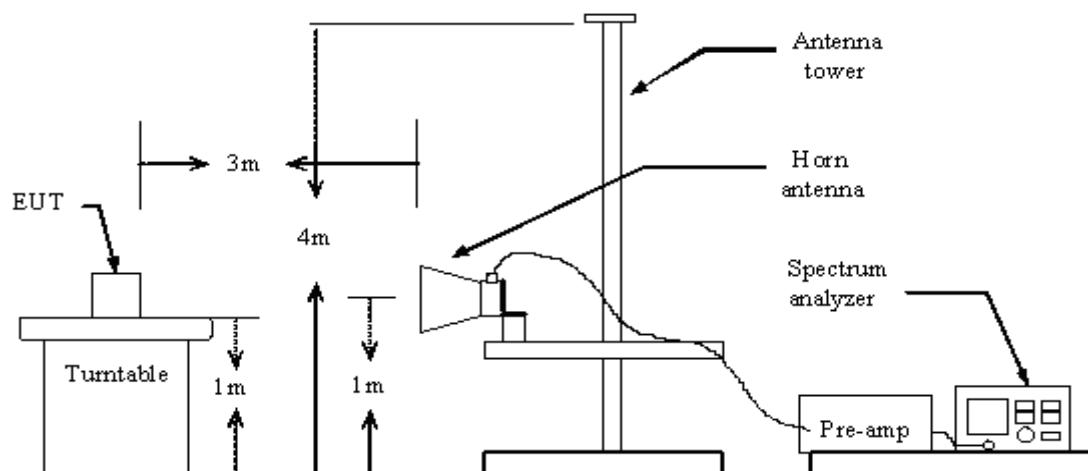
Report No.: PTS11083148E

## 7.2.4 Test setup diagram

Below 1GHz



Above 1GHz





PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

## 7.2.5. Test Result

### A. Fundamental Radiated Emission Data

Product:	Bluetooth keyboard	Test mode:	CH Low~CH High
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	DC 3.7V	Humidity:	56%RH
Test Result:	PASS		

#### CH Low

Freq. (MHz)	Emission(dBuV/m) Peak Detector/ AV	HORIZ/ VERT	Limits(dBuV/m) Peak/AVERAGE	Margin (Db)
2402	92.6/ 74.5	HORIZ	114/94	21.4/19.5
2402	95.6 / 77.2	VERT	114/94	18.4/16.8

#### CH Middle

Freq. (MHz)	Emission(dBuV/m) Peak Detector/ AV	HORIZ/ VERT	Limits(dBuV/m) Peak/AVERAGE	Margin (Db)
2441	92.8/74.2	HORIZ	114/94	21.2/19.8
2441	94.7/75.5	VERT	114/94	19.3/18.5

#### CH High

Freq. (MHz)	Emission(dBuV/m) Peak Detector/ AV	HORIZ/ VERT	Limits(dBuV/m) Peak/AVERAGE	Margin (Db)
2480	93.3/76.6	HORIZ	114/94	20.7/17.4
2480	95.5/78.2	VERT	114/94	18.5/15.8



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

## B.Harmonics Radiated Emission Data

Product:	Bluetooth keyboard	Test mode:	CH Low~CH High
Test Item:	Radiated Emission Data	Temperature:	25°C
Test Voltage:	DC 3.7V	Humidity:	56%RH
Test Result:	PASS		

### CH Low

Freq. (MHz)	Emission(dBuV/m) Peak Detector	HORIZ/ VERT	Limits(dB $\mu$ V/m) Peak/ Average	Margin (dB)
4804.12	-	H/V	74.0/54.0	-
7206.18	-	H/V	74.0/54.0	-
9608.24	-	H/V	74.0/54.0	-
12010.3	-	H/V	74.0/54.0	-
14412.36	-	H/V	74.0/54.0	-
16814.42	-	H/V	74.0/54.0	-

### CH Midde

Freq. (MHz)	Emission(dB $\mu$ V/m) Peak Detector	HORIZ/ VERT	Limits(dB $\mu$ V/m) Peak/ Average	Margin (dB)
4882.18	-	H/V	74.0/54.0	-
7323.27	-	H/V	74.0/54.0	-
9764.36	-	H/V	74.0/54.0	-
12205.45	-	H/V	74.0/54.0	-
14646.54	-	H/V	74.0/54.0	-
17087.63	-	H/V	74.0/54.0	-

**PRECISE TESTING**

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

**CH High**

Freq. (MHz)	Emission(dB $\mu$ V/m) Peak Detector	HORIZ/ VERT	Limits(dB $\mu$ V/m) Peak/ Average	Margin (dB)
4960.26	-	H/V	74.0/54.0	-
7440.39	-	H/V	74.0/54.0	-
9920.52	-	H/V	74.0/54.0	-
12400.65	-	H/V	74.0/54.0	-
14880.78	-	H/V	74.0/54.0	-
17360.91	-	H/V	74.0/54.0	-

Note: - means the emission is too low at least 20dB to the limit.

**C. General Radiated Emission Data**

Product:	Bluetooth keyboard	Test mode:	transmitting
Test Item:	Radiated Emission Data	Temperature:	25°C
Test Voltage:	DC 3.7V	Humidity:	56%RH
Test Result:	PASS		

Freq. (MHz)	Emission(dBuV/m) Peak Detector	HORIZ/ VERT	Limits(dBuV/m) Peak/ACERAGE	Margin (Db)
96.8	29.2	HORIZ	43.5	14.3
96.8	31.3	VERT	43.5	12.2
195.5	26.4	HORIZ	43.5	17.1
195.5	29.5	VERT	43.5	14.0
432.4	28.8	HORIZ	46	17.2
432.4	31.3	VERT	46	14.7



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

## 7.3. Band edge test

### 7.3.1. Limits

According 15.249(d), Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50dB below the level of the fundamental or to the general radiated emission limits in section 15.209, whichever is the lesser attenuation.

### 7.3.2. TEST INSTRUMENT

Same as 7.2.2

### 7.3.3. Test procedure

1. The EUT was placed on a turntable which is 0.8m above ground plane.
2. Set EUT as continuous transmitting mode.
3. Set the EUT work on the CH1, CH79 individually.
4. Set SPA Frequency = Operation frequency, for PK: RBW =1MHz, VBW=3MHz
5. Set SPA trace max hold, then view.

### 7.3.4. Test setup diagram

Same as 7.2.4



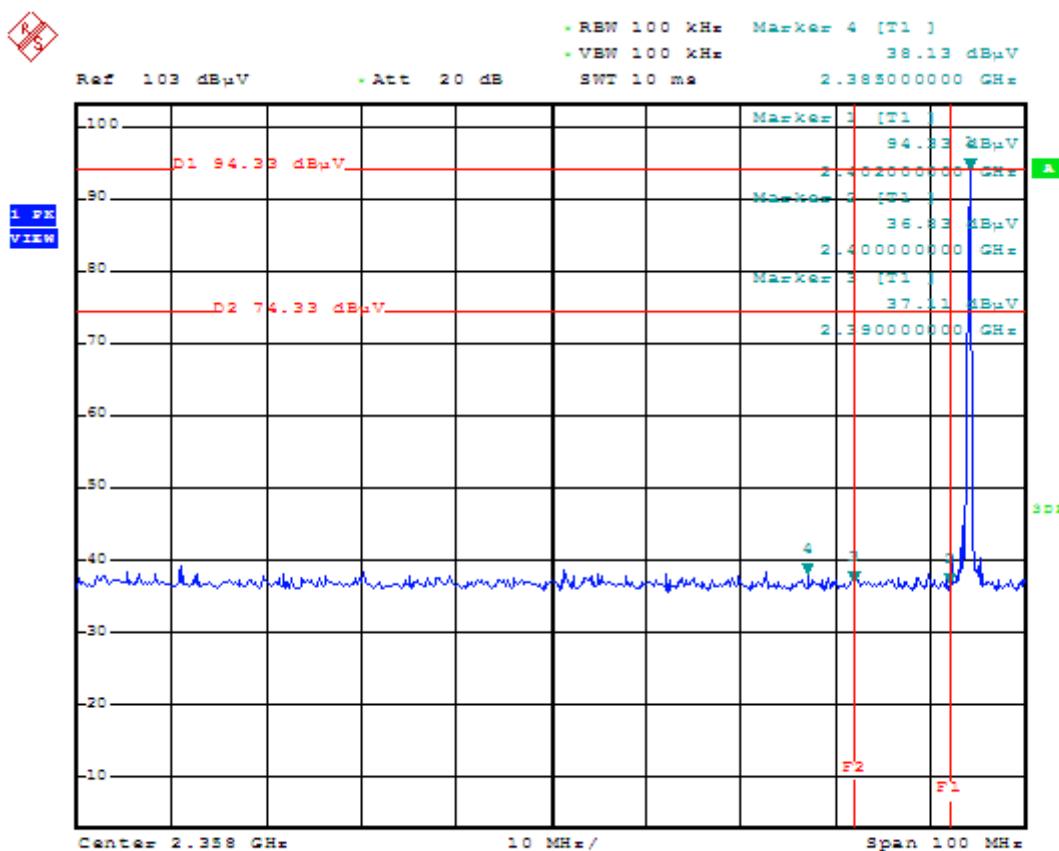
PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

### 7.3.5. Test result

Product:	Bluetooth keyboard	Test mode:	CH Low,CH High
Test Item:	bandedge	Temperature:	25°C
Test Voltage:	DC 3.7V	Humidity:	56%RH
Test Result:	PASS		



#### Emission in the Restricted Bands

Frequency [MHz]	dBc [dB]	AV [dBμV/m]	Polarity (H/V)	AV limit [dBμV/m]
2310	-	<b>35.1</b>	V	54
2385	-	<b>36.6</b>	V	54
2390	-	<b>36.3</b>	V	54

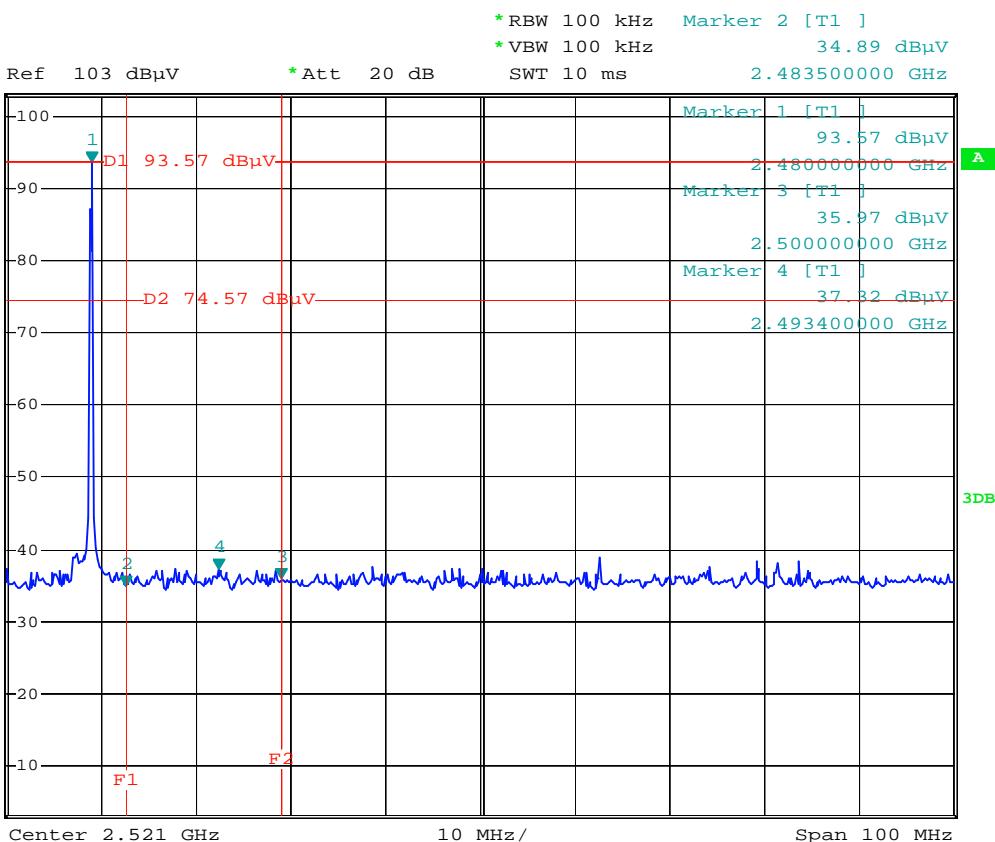


PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E

RS



#### Emission in the Restricted Bands

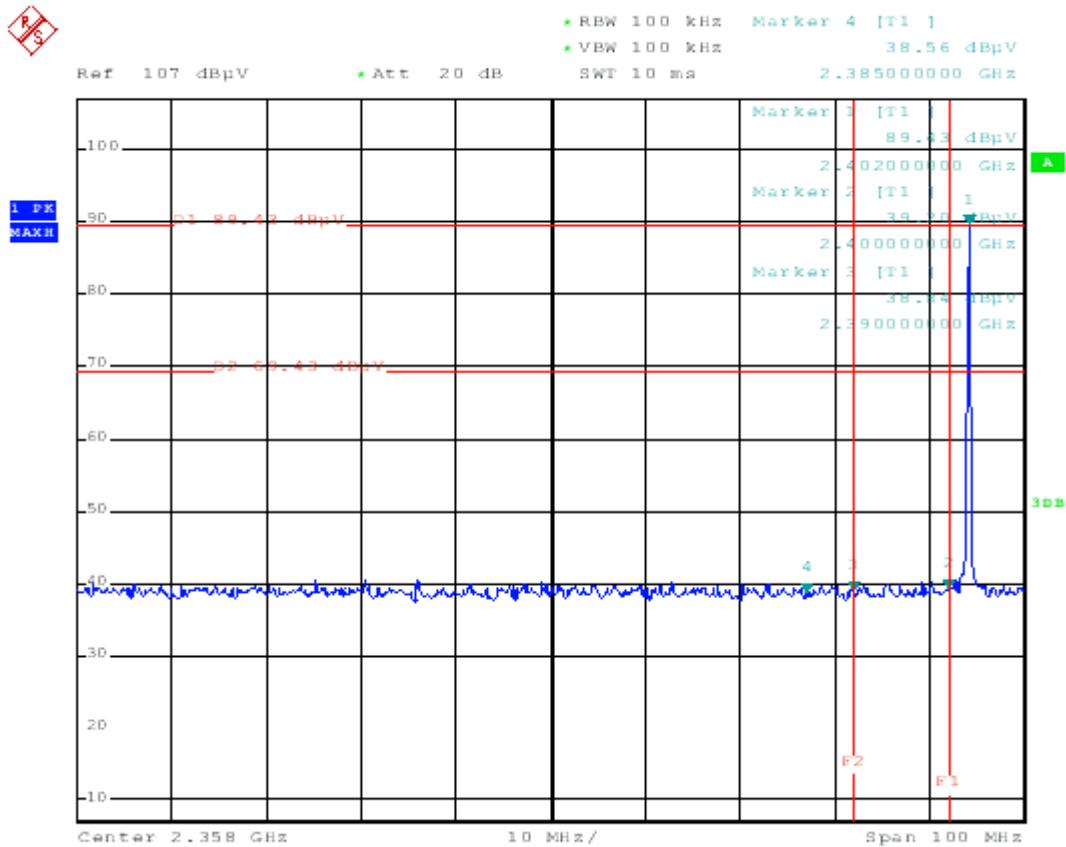
Frequency [MHz]	dBc [dB]	AV [dB $\mu$ V/m]	Polarity (H/V)	AV limit [dB $\mu$ V/m]
2483.5	-	<b>33.72</b>	V	54
2493.4	-	<b>35.81</b>	V	54
2500	-	<b>34.73</b>	V	54



PRECISE TESTING

DongGuan Precise Testing Service Co.,Ltd.

Report No.: PTS11083148E



#### Emission in the Restricted Bands

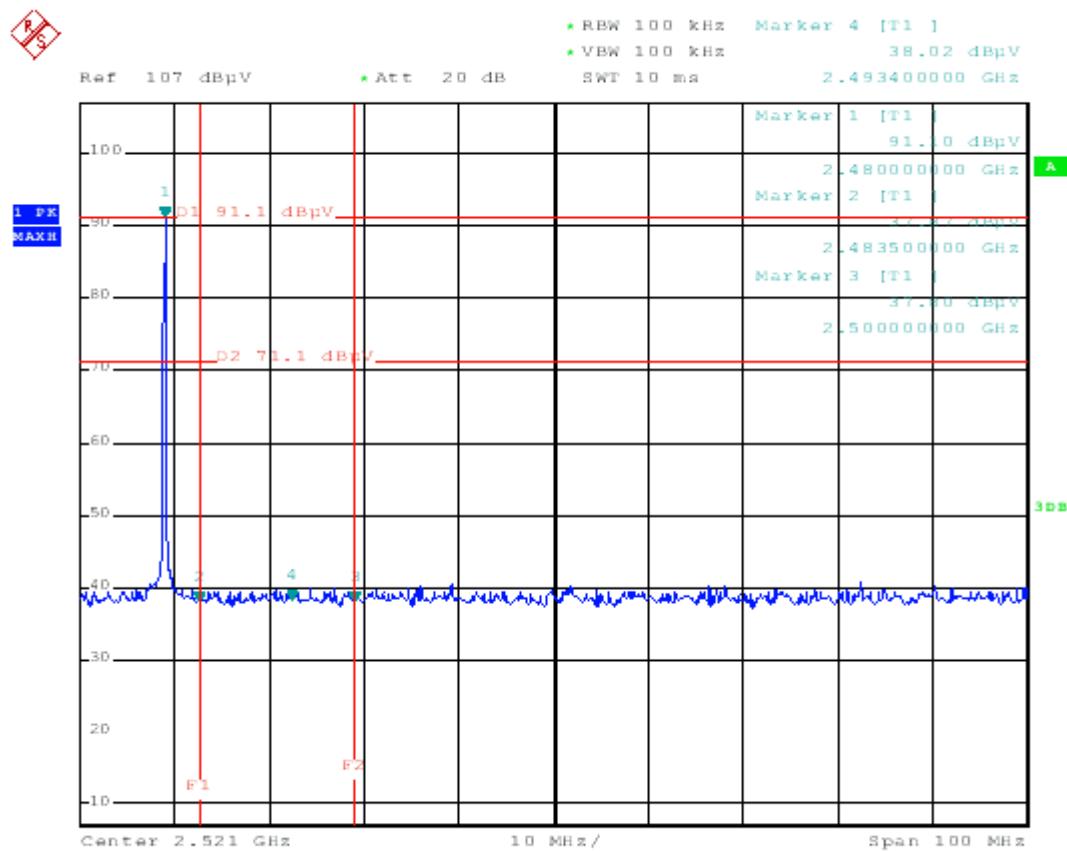
Frequency [MHz]	dBc [dB]	AV [dB $\mu$ V/m]	Polarity (H/V)	AV limit [dB $\mu$ V/m]
2310	-	<b>34.8</b>	H	54
2385	-	<b>35.1</b>	H	54
2390	-	<b>35.2</b>	H	54



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#### Emission in the Restricted Bands

Frequency [MHz]	dBc [dB]	AV [dB $\mu$ V/m]	Polarity (H/V)	AV limit [dB $\mu$ V/m]
2483.5	-	<b>33.16</b>	H	54
2493.4	-	<b>34.37</b>	H	54
2500	-	<b>34.12</b>	H	54



**PRECISE TESTING**

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## **8. Antenna requirement**

### **8.1. 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.

### **8.2. Antenna connected construction**

The antenna used in this product is PCB antenna and no consideration of replacement.