

TECHNICAL CONSULTING CO., LTD



**ISO/IEC17025 Accredited Lab.**

Report No: FCC1408146

File reference No: 2014-09-12

Applicant: Guangzhou Sunday Electronics Co., Ltd.

Product: Solar Keyboard

Model No: S-KW258SL, S-KW1xxxx- S-KW6xxxx ( the "x" means one discretionary character of A/a – Z/z or one Arabic number of 0 – 9)

Brand Name: Sunday

Test Standards: FCC Part 15 Subpart C, Paragraph 15.249

Test result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.249 regulations for the evaluation of electromagnetic compatibility

Approved By

*Jack Chung*

Jack Chung

Manager

Dated: Sep 12, 2014

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD**

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## 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 meet 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-02.

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## Test Report Conclusion

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TECHNOLOGY CONSULTING CO., LTD  
Address: 5/F,Block 4, Anhua Industrial Zone.,No.8 TaiRan Rd.CheGongMiao,FuTian District, Shenzhen,CHINA.  
Telephone: (755) 83448688  
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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-02

For 3m & 10 m OATS

### 1.2 Applicant Details

Applicant: Guangzhou Sunday Electronics Co., Ltd.  
Address: No.236-238, Minsheng Rd., Lanhe Town, Nansha District, Guangzhou, China  
Telephone: +86-20-84928933 / 84928938  
Fax: +86-20-84928823

### 1.3 Description of EUT

Product:	Solar Keyboard
Manufacturer:	Guangzhou Sunday Electronics Co., Ltd.
Brand Name:	Sunday
Model Number:	S-KW258SL
Additional Model Name	S-KW1xxxx- S-KW6xxxx ( the "x" means one discretionary character of A/a – Z/z or one Arabic number of 0 – 9)
Additional Trade Name	N/A
Rating:	DC3.0V, 1 pcs button battery
Modulation Type:	GFSK
Operation Frequency	2408-2474MHz
Antenna Designation	Printed antenna, which is built-in, designed as an indispensable part of the EUT.
Antenna Gain:	0dBi

### 1.4 Submitted Sample

1 Sample

### 1.5 Test Duration

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2014-08-28 to 2014-09-11

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

The sample tested by \_\_\_\_\_

Print Name: Terry Tang

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Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2014-08-23	2015-08-21
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2014-08-22	2015-08-21
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2014-08-22	2015-08-21
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2014-08-24	2015-08-21
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2014-08-23	2015-08-21
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2014-08-22	2015-08-21
Loop Antenna	EMCO	6502	00042960	2014-08-22	2015-08-21
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2014-08-23	2015-08-21
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2014-08-26	2015-08-21
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2014-08-26	2015-08-21
Power meter	Anritsu	ML2487A	6K00003613	2014-08-22	2015-08-21
Power sensor	Anritsu	MA2491A	32263	2014-08-22	2015-08-21
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2014-08-23	2015-08-21
LISN	AFJ	LS16C	10010947251	2014-08-22	2015-08-21
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2014-08-22	2015-08-21
9*6*6 Anechoic	--	--	N/A	2014-08-22	2015-08-21
EMI Test Receiver	RS	ESCS30	100139	2014-08-23	2015-08-21

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### 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
FCC Part 15, Paragraph 15.207	Conducted Emission Test	N/A	Complies
FCC Part 15 Subpart C Paragraph 15.249(a) & 15.249(b) Limit	Field Strength of Fundamental	PASS	Complies
FCC Part 15, Paragraph 15.209	Radiated Emission Test	PASS	Complies
FCC Part 15 Subpart C Paragraph 15.249(d) Limit	Band Edge Test	PASS	Complies

#### 3.2 Test Standards

**FCC Part 15 Subpart C, Paragraph 15.249**

#### 4.0 EUT Modification

**No modification by Shenzhen Timeway Technology Consulting Co.,Ltd**

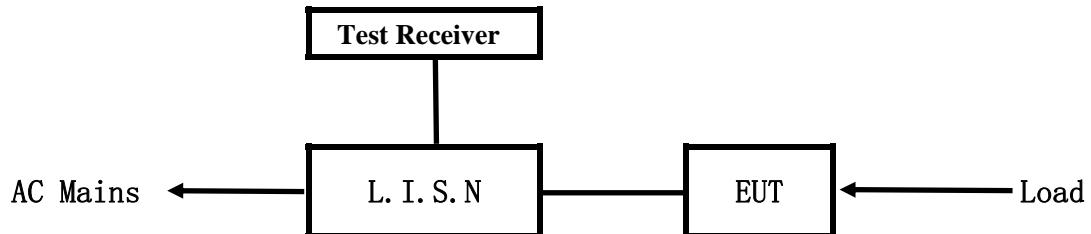
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## 5. Power Line Conducted Emission Test

### 5.1 Schematics of the test

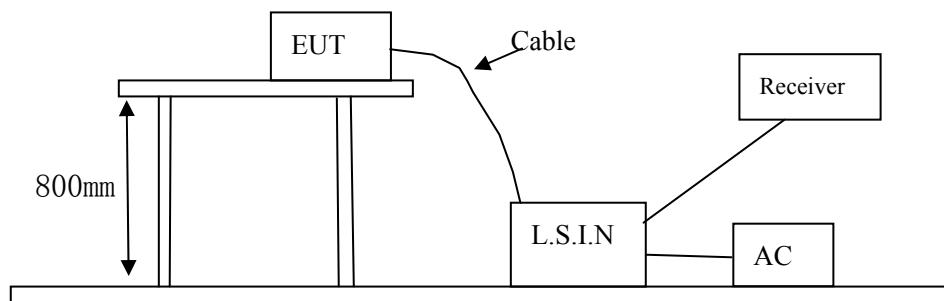


EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2003. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2003.

Block diagram of Test setup



### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2003. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

One channels are provided to the EUT

#### A. EUT

Device	Manufacturer	Model	FCC ID
Solar Keyboard	Guangzhou Sunday Electronics Co., Ltd.	S-KW258SL	XQLS-KW258SL

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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### C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
N/A				

#### 5.4 EUT Operating Condition

Operating condition is according to ANSI C63.4 -2003

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

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

Frequency(MHz)	Class A Limits (dB $\mu$ V)		Class B Limits (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 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

**Due to Battery operation, this test item not applicable**

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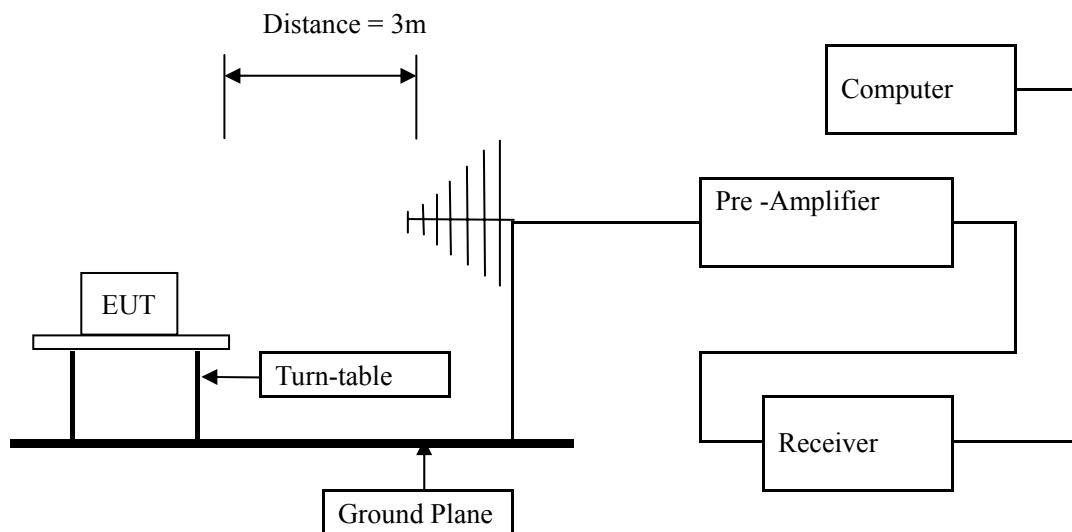
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## 6 Radiated Emission Test

### 6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. 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 C63.4-2003.
- (3) The frequency spectrum from 30 MHz to 1 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



### 6.2 Configuration of The EUT

Same as section 5.3 of this report

### 6.3 EUT Operating Condition

Same as section 5.4 of this report.

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#### 6.4 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 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)
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. New batteries were installed in the equipment under test for radiated emission testing.
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.
6. 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.
7. Other than fundamental, For emission above 1GHz, RBW =1MHz, VBW=3MHz, PK detector is for PK value; RBW =1MHz, VBW=10Hz, PK detector is for AV value.

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## 6.5 Test result

### A Fundamental & Harmonics Radiated Emission Data

Product:	Solar Keyboard	Test Mode:	Low Channel- keep transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	3.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2408	92.36 (PK)	H	114/94	-1.64
2408	91.08 (PK)	V	114/94	-2.92
4816	--	H/V	74/54	--
7224	--	H/V	74/54	--
9632	--	H/V	74/54	--
12040	--	H/V	74/54	--
14448	--	H/V	74/54	--
16856	--	H/V	74/54	--
19264	--	H/V	74/54	--
21672	--	H/V	74/54	--
24080	--	H/V	74/54	--

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Product:	Solar Keyboard	Test Mode:	Middle Channel- keep transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	3.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2440	90.63(PK)	H	114/94	-3.37
2440	88.02(PK)	V	114/94	-5.98
4880	--	H	74/54	--
7320	--	V	74/54	--
9760	--	H/V	74/54	--
12200	--	H/V	74/54	--
14640	--	H/V	74/54	--
17080	--	H/V	74/54	--
19520	--	H/V	74/54	--
21960	--	H/V	74/54	--
24400	--	H/V	74/54	--

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Product:	Solar Keyboard	Test Mode:	High Channel- keep transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	3.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2474	89.56 (PK)	H	114/94	-4.44
2474	87.62 (PK)	V	114/94	-6.38
4948	--	H/V	74/54	--
7422	--	H/V	74/54	--
9896	--	H/V	74/54	--
12370	--	H/V	74/54	--
14844	--	H/V	74/54	--
17318	--	H/V	74/54	--
19792	--	H/V	74/54	--
22266	--	H/V	74/54	--
24740	--	H/V	74/54	--

Note: (1) PK= Peak, AV= Average

(2) Emission Level = Reading Level + Antenna Factor + Cable Loss.

(3) Margin=Emission-Limits

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

(5) The measured PK value less than the AV limit.

(6) for fundamental emissions measurement, RBW=3MHz, VBW=10MHz

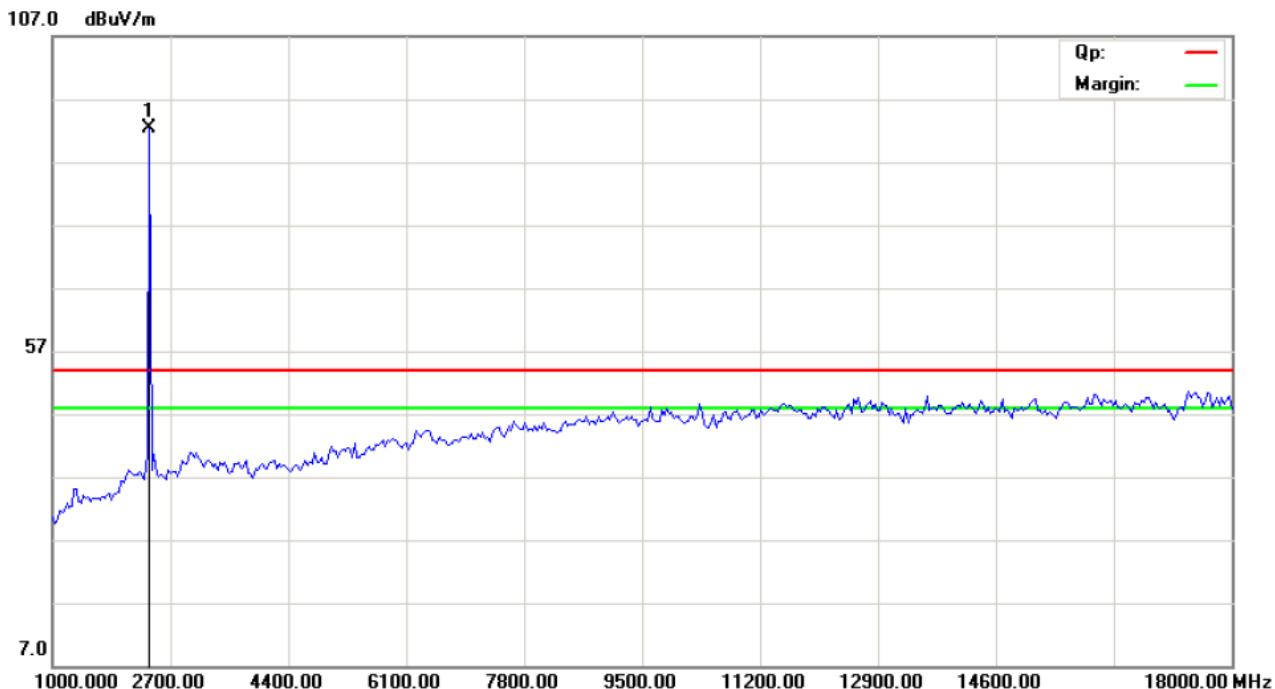
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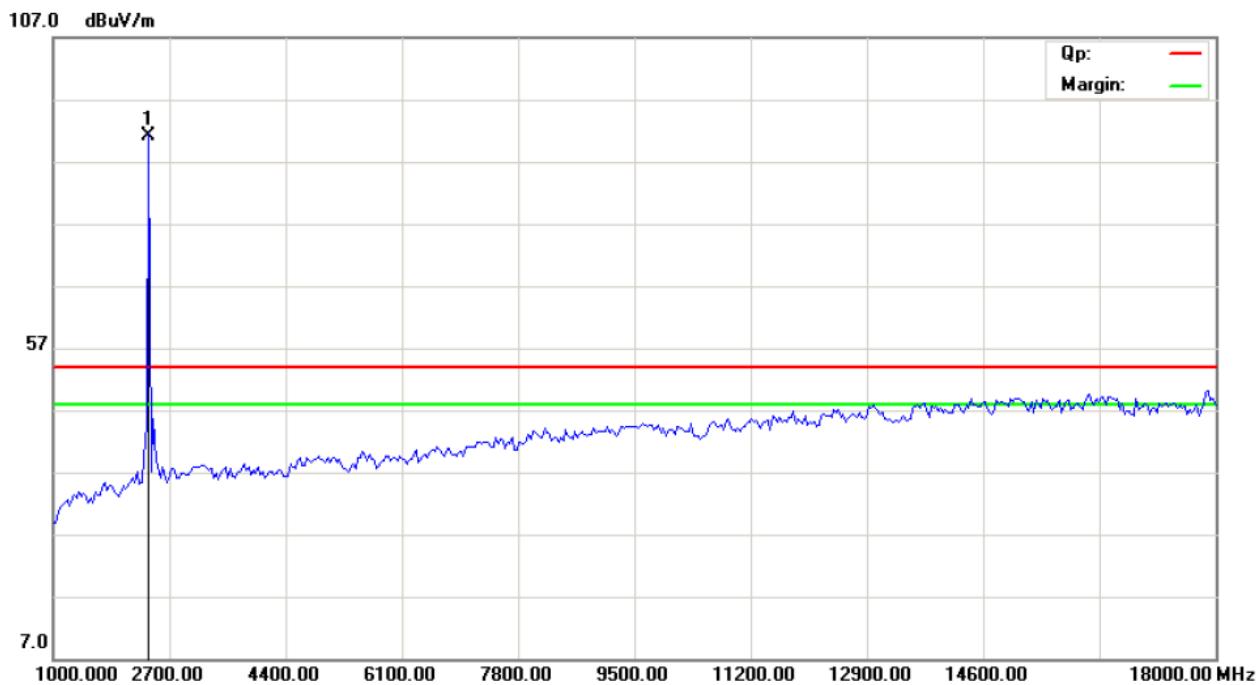
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Please refer to the following test plots for details:

**Low Channel: Horizontal**



**Low Channel : Vertical**

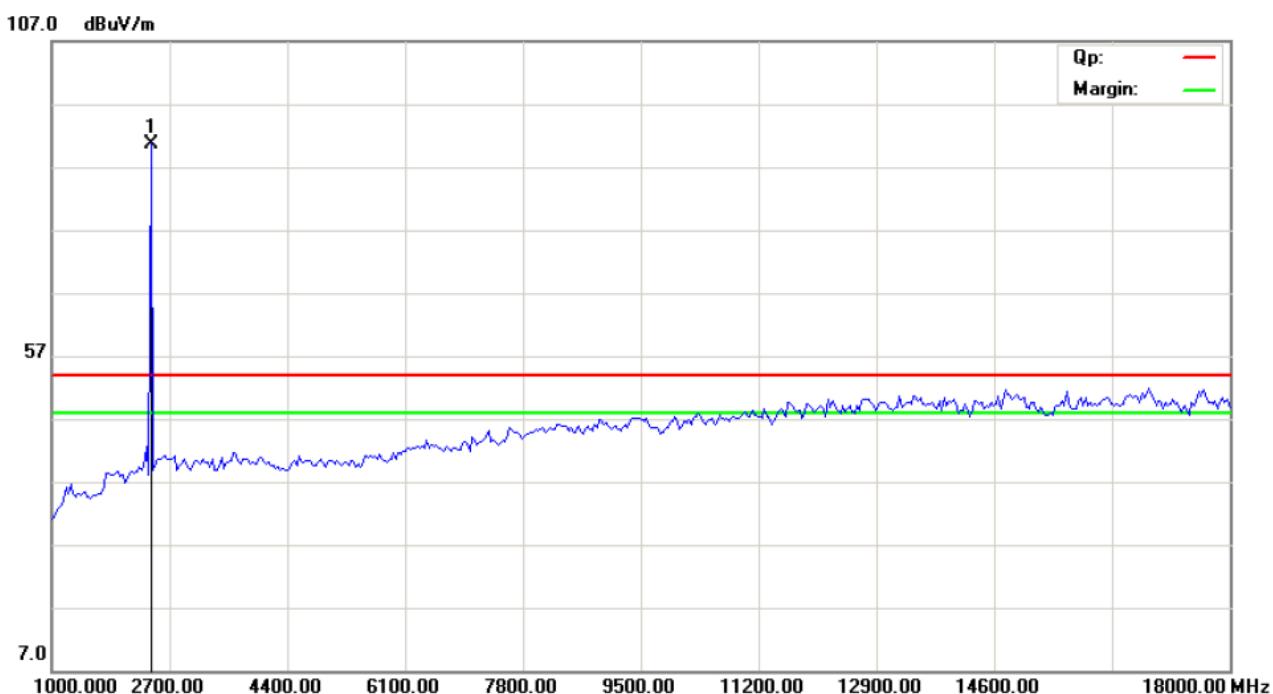


The report refers only to the sample tested and does not apply to the bulk.

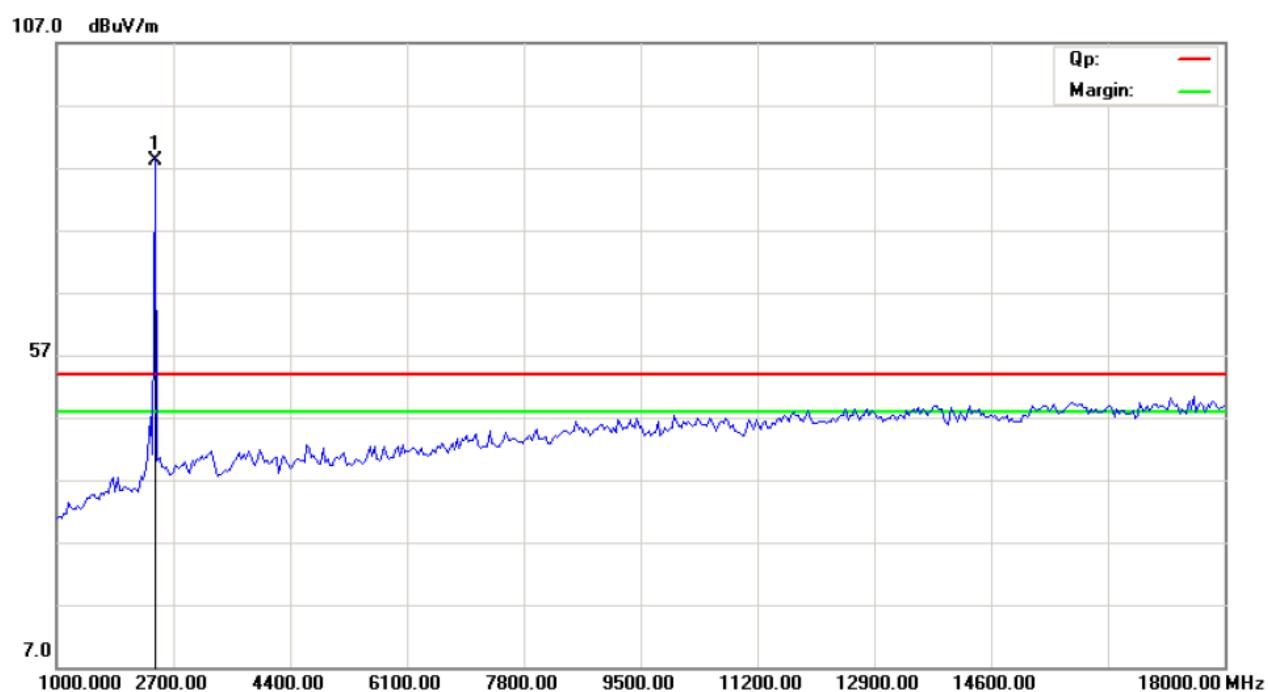
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### Middle Channel : Horizontal



### Middle Channel : Vertical

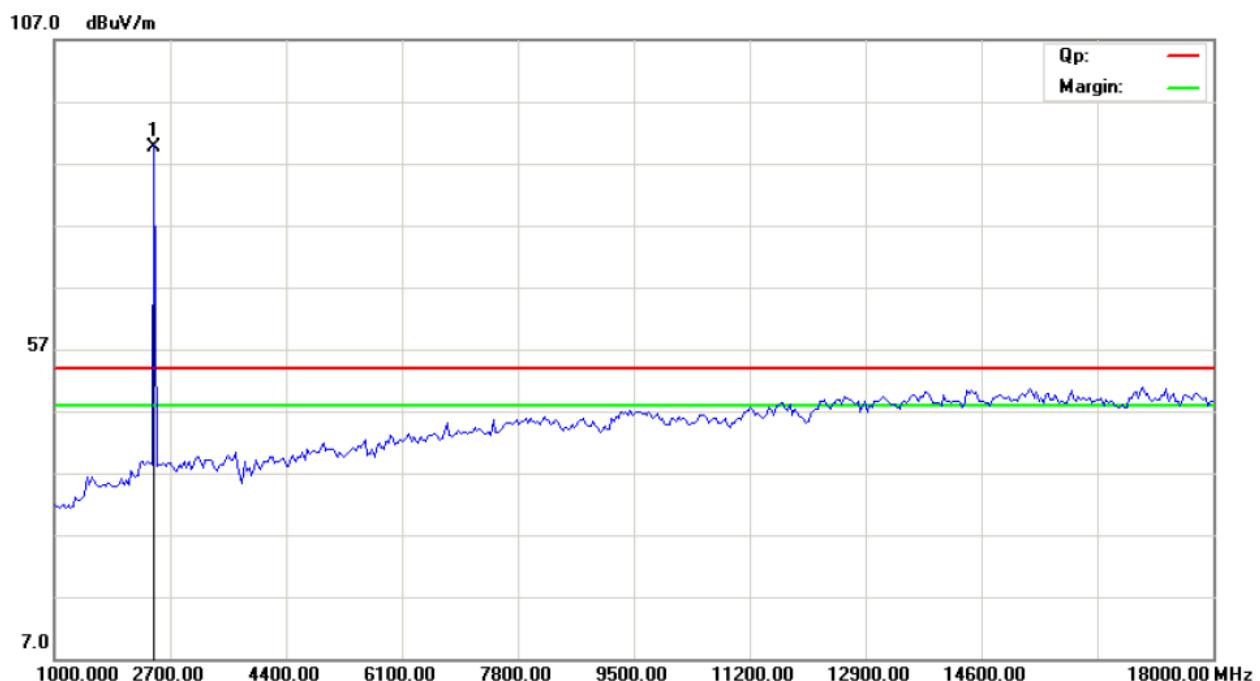


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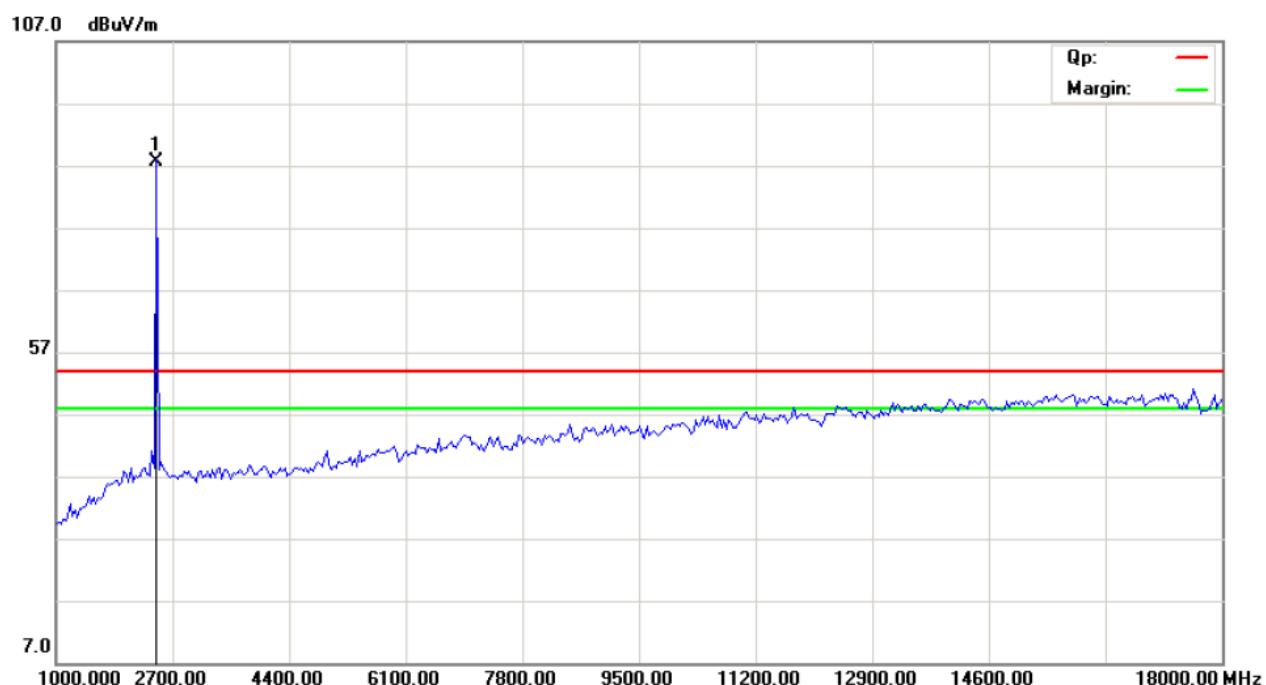
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### High Channel : Horizontal



### High Channel : Vertical



**Note: for the radiated emissions from 18-25GHz, it was the floor noise.**

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## B. General Radiated Emission Data

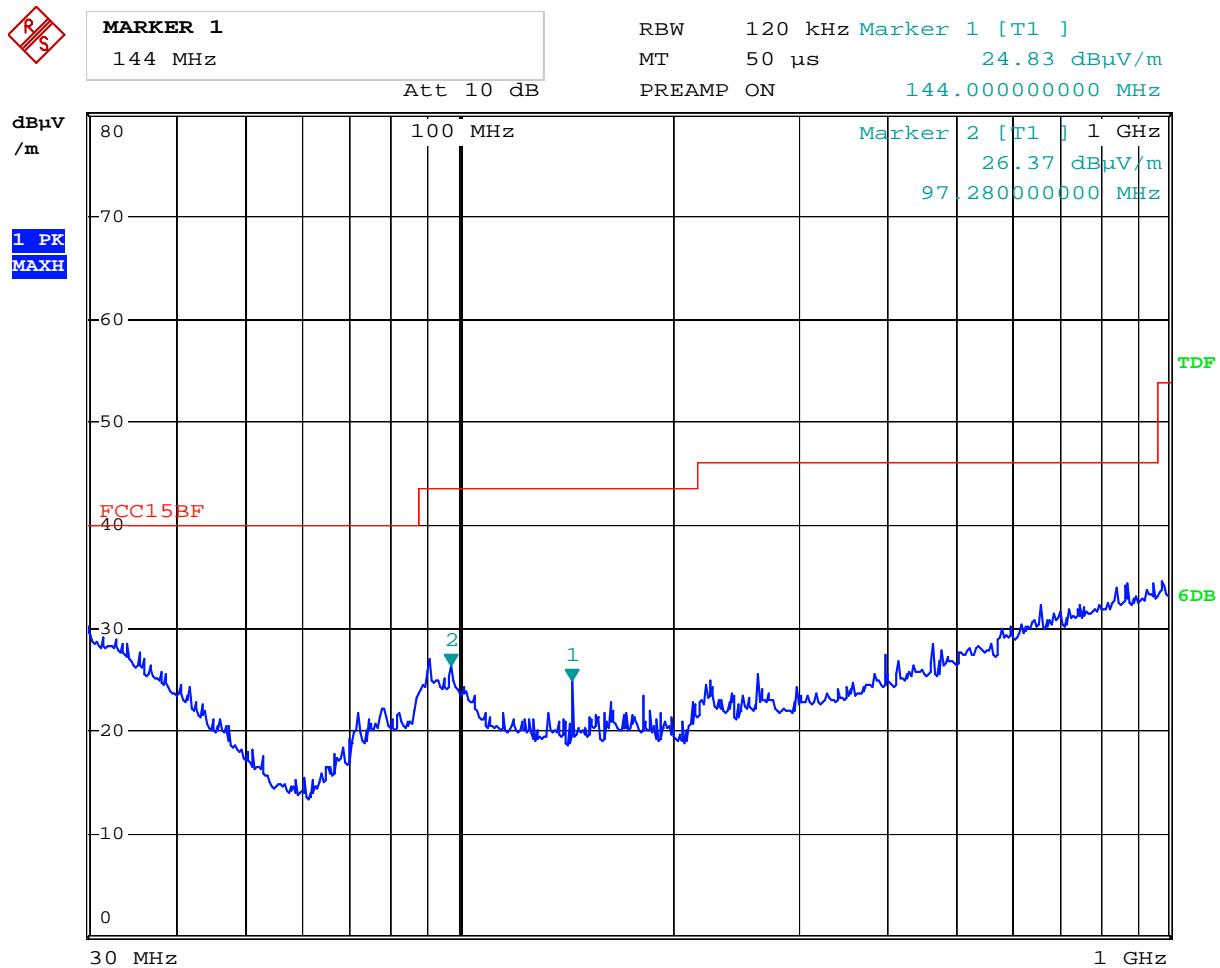
### Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep Tx transmitting

Mode: Low Channel

**Results: Pass**

Please refer to following diagram for individual



Date: 2. SEP. 2014 16:14:27

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
144.000	24.83	H	43.50
97.280	26.37	H	43.50

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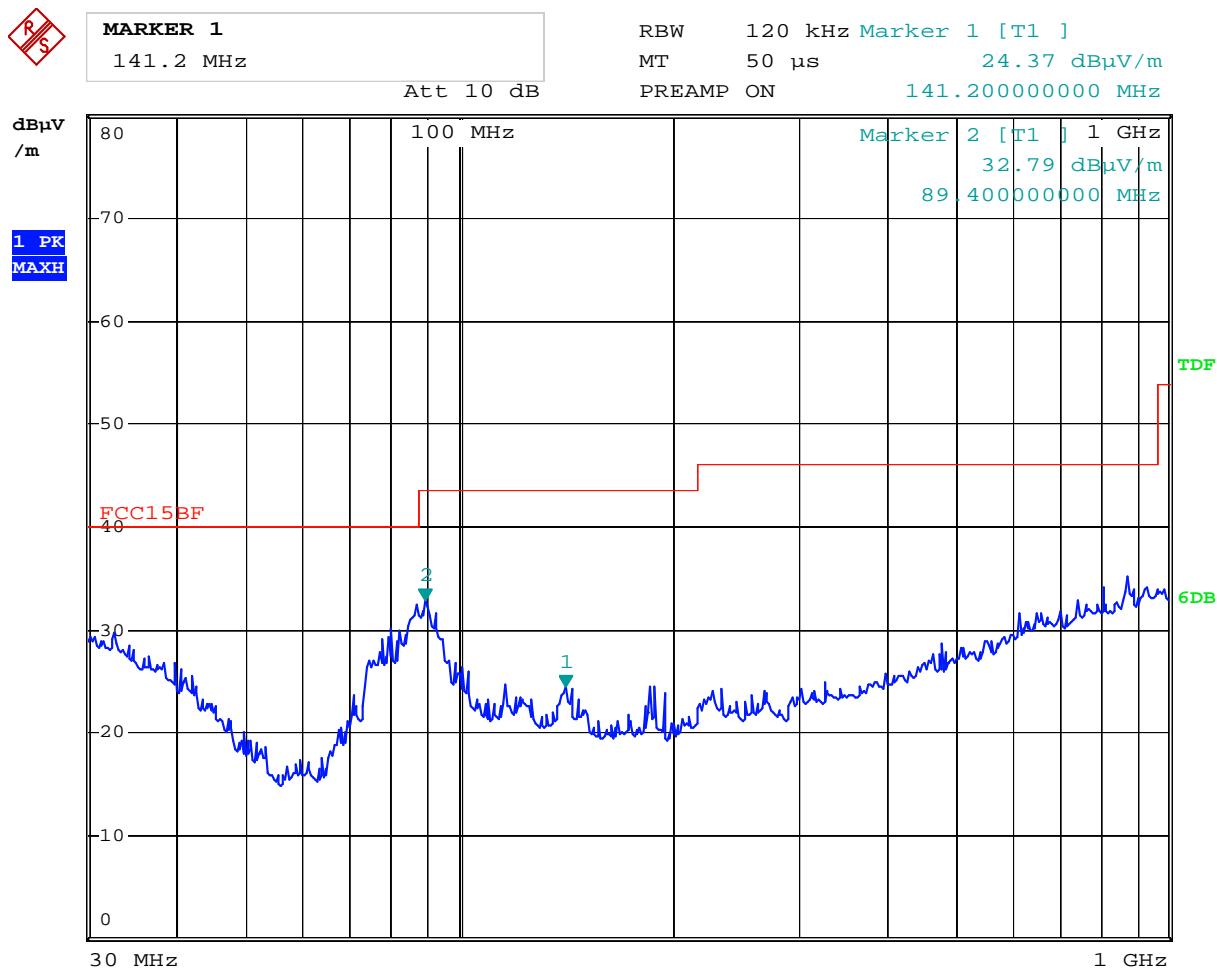
### Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Tx transmitting

Mode: Low Channel

**Results: Pass**

Please refer to following diagram for individual



Date: 2.SEP.2014 16:10:23

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
141.200	24.37	V	43.50
89.400	32.79	V	43.50

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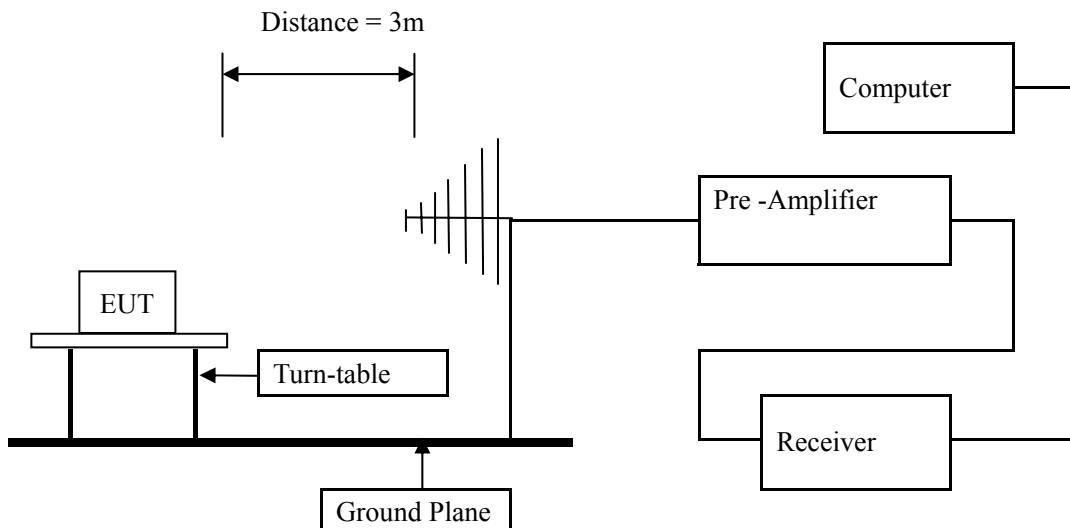
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## 7. Band Edge

### 7.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.4 –2003. 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 high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (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 Configuration of The EUT

Same as section 5.3 of this report

### 7.4 EUT Operating Condition

Same as section 5.4 of this report.

### 7.5 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.

Remark: low, mid and high channel all have been tested; only worse case is reported.

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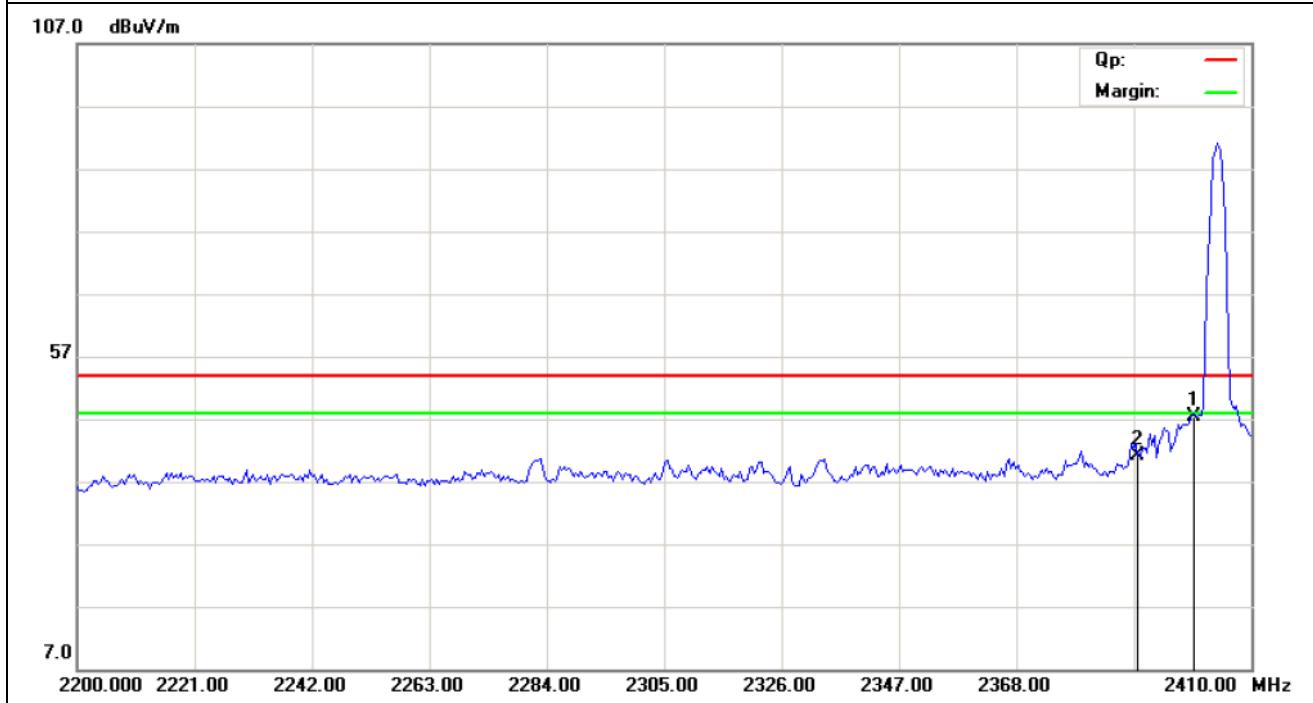
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## 7.6 Test Result

Product:	Solar Keyboard		Test Mode:	Low Channel- keep transmitting
Mode	Keeping Transmitting		Test Voltage	DC3V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2390MHz	PK (dB $\mu$ V/m)	41.03	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)
2400MHz	PK (dB $\mu$ V/m)	47.49		74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

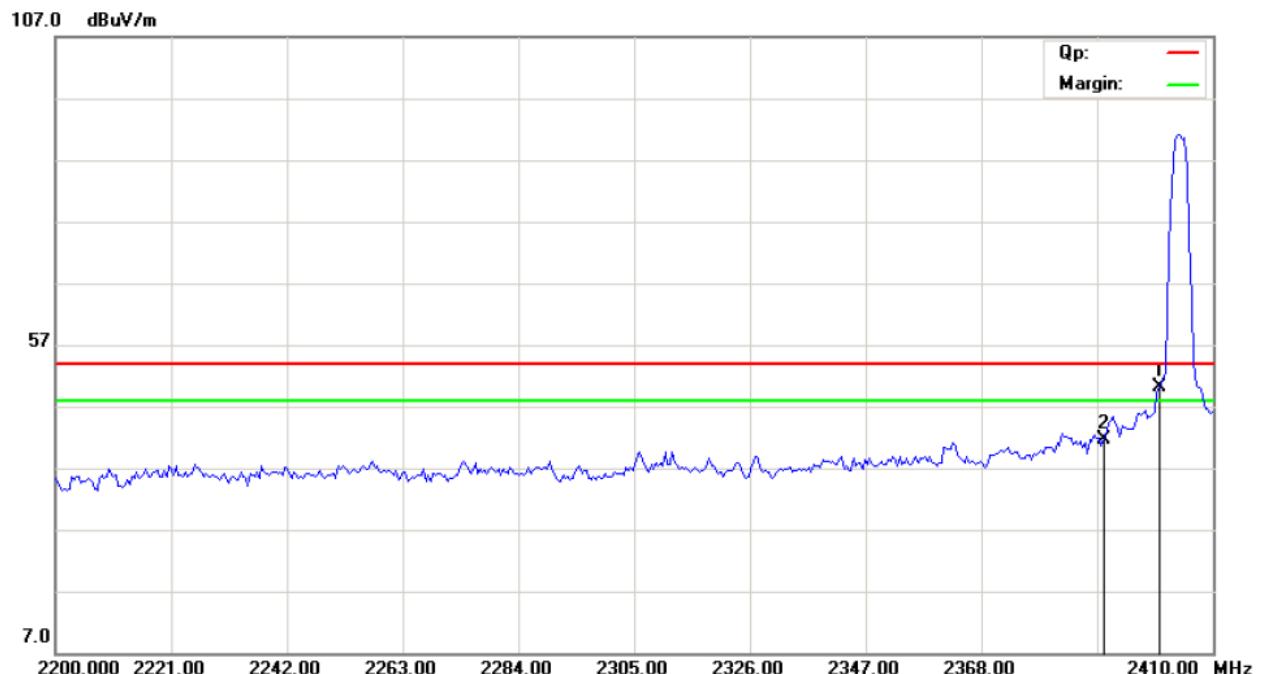
Vertical



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Product:	Solar Keyboard		Test Mode:	Low Channel- keep transmitting	
Mode	Keeping Transmitting		Test Voltage	DC3V	
Temperature	24 deg. C,		Humidity	56% RH	
Test Result:	Pass		Detector	PK	
2390MHz	PK (dB $\mu$ V/m)	41.61	Limit	74(dB $\mu$ V/m)	
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)	
2400MHz	PK (dB $\mu$ V/m)	50.19	Limit	74(dB $\mu$ V/m)	
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)	
Horizontal					
					

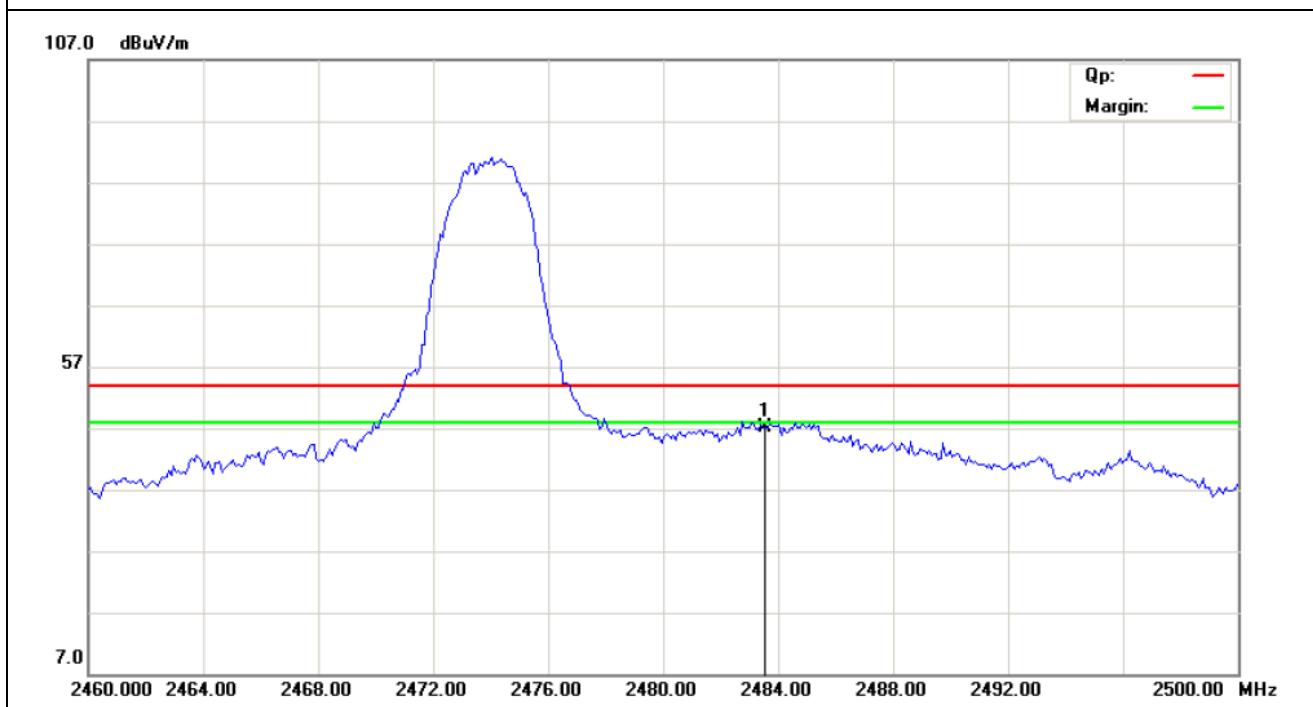
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Product:	Solar Keyboard		Test Mode:	High Channel- keep transmitting
Mode	Keeping Transmitting		Test Voltage	DC3V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5MHz	PK (dB $\mu$ V/m)	47.24	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

Horizontal



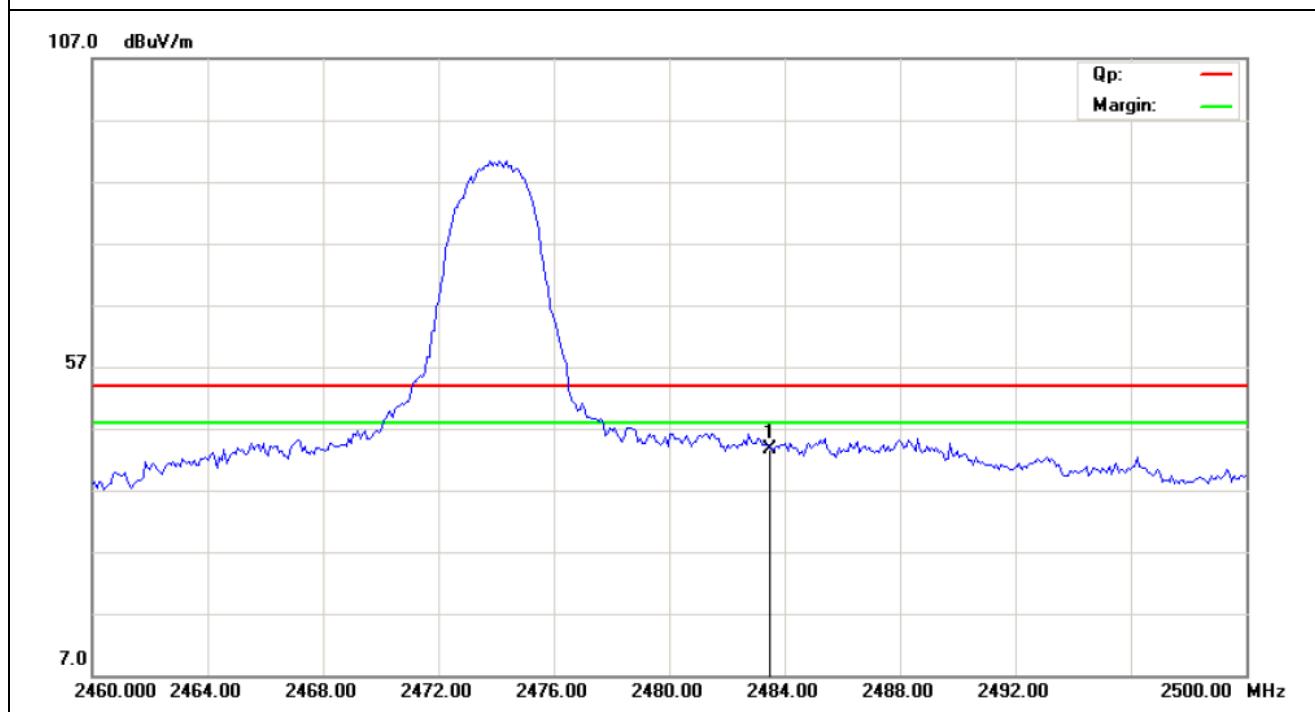
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Product:	Solar Keyboard		Test Mode:	High Channel- keep transmitting
Mode	Keeping Transmitting		Test Voltage	DC3V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5MHz	PK (dB $\mu$ V/m)	43.74	Limit	74(dB $\mu$ V/m)
	AV(dB $\mu$ V/m)	--		54(dB $\mu$ V/m)

Vertical



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## 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.

This product has a PCB permanent antenna, fulfill the requirement of this section.

Test Result: Pass

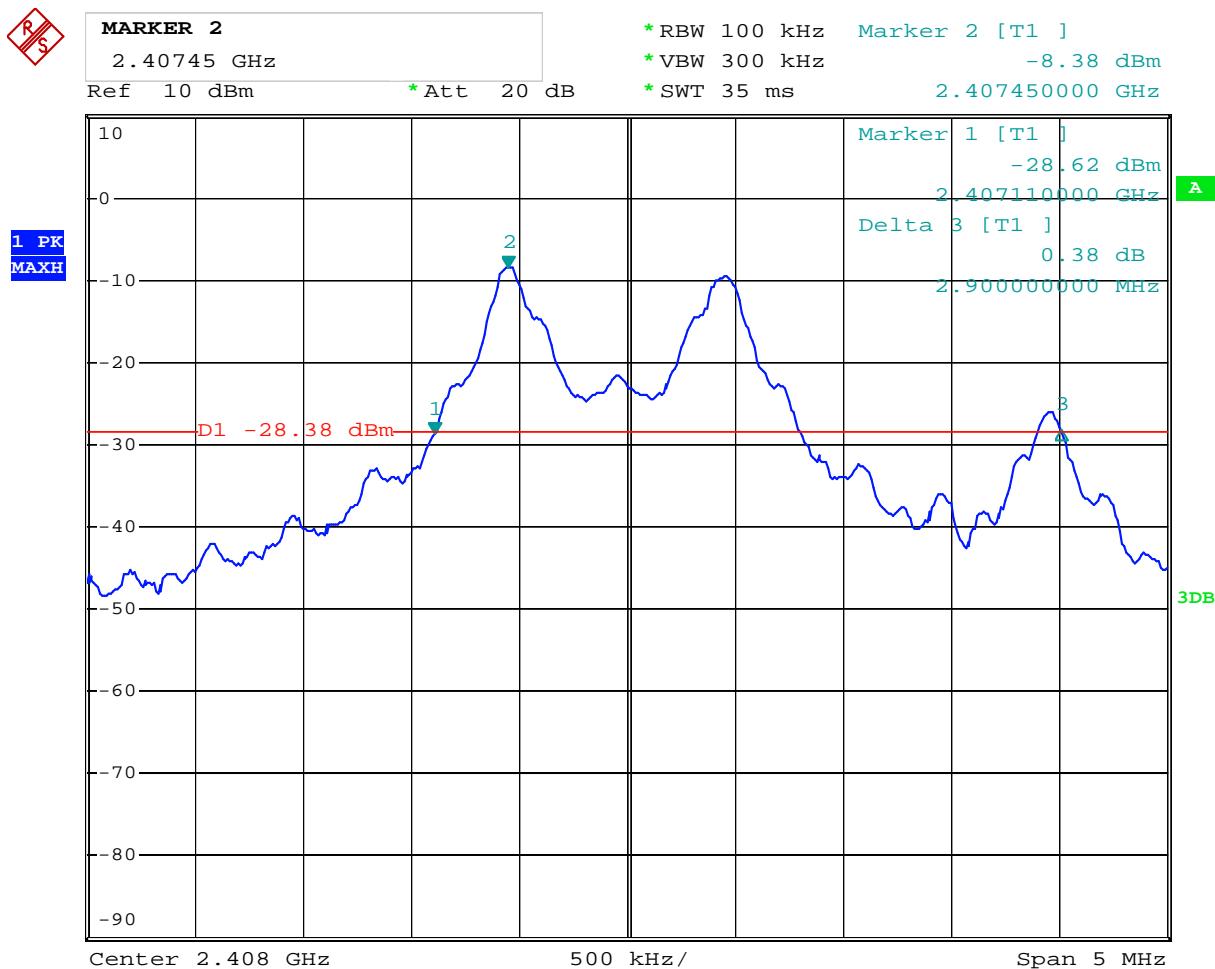
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## 9.0 20dB Bandwidth Measurement

Product:	Solar Keyboard	Test Mode:	Low Channel- keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.90MHz	--	--



Date: 10.SEP.2014 18:18:14

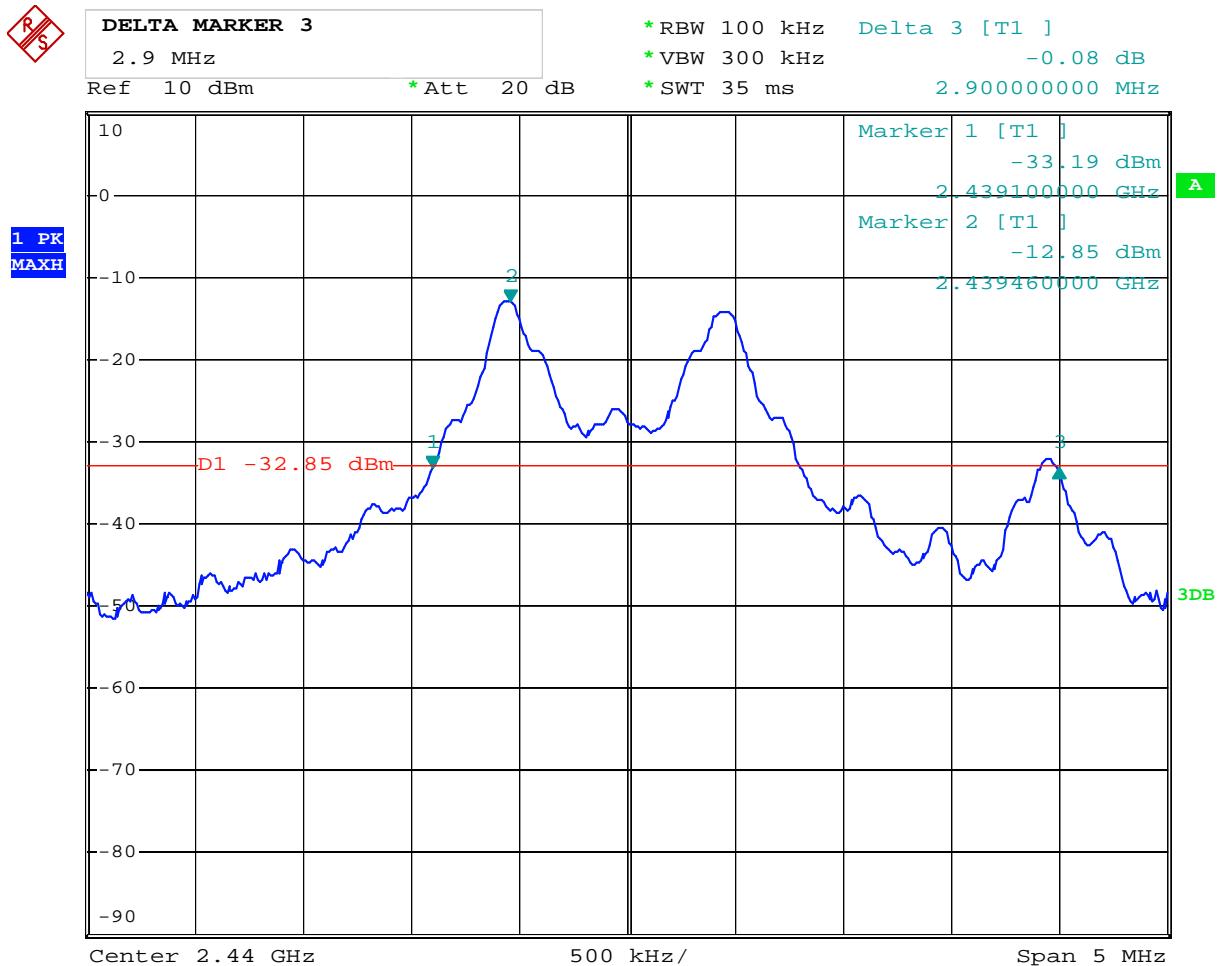
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### 9.1 20dB Bandwidth Measurement

Product:	Solar Keyboard	Test Mode:	Middle Channel-keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.90MHz	--	--



Date: 10.SEP.2014 18:20:57

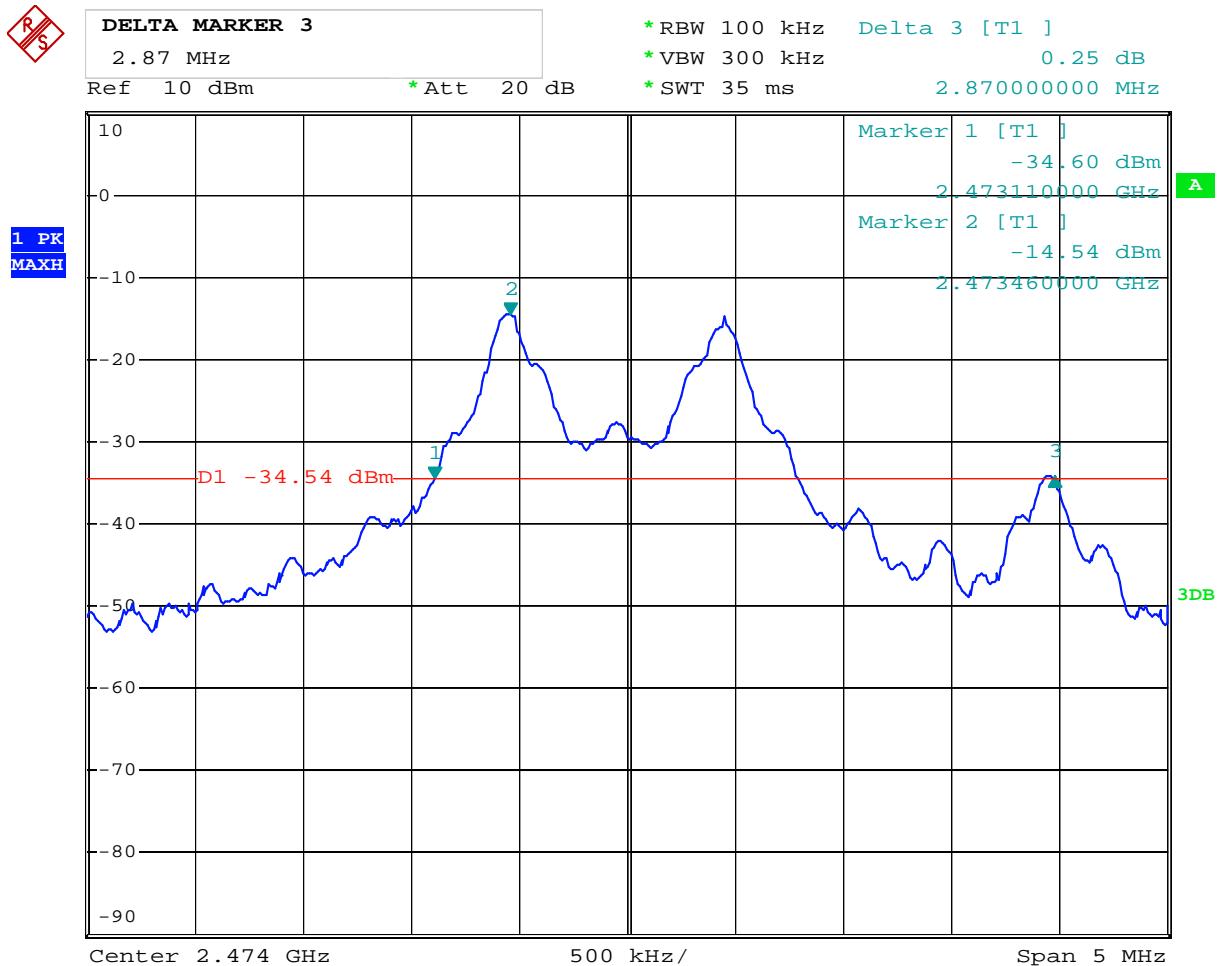
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## 9.2 20dB Bandwidth Measurement

Product:	Solar Keyboard	Test Mode:	High Channel- keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2.87MHz	--	--



Date: 10.SEP.2014 18:22:30

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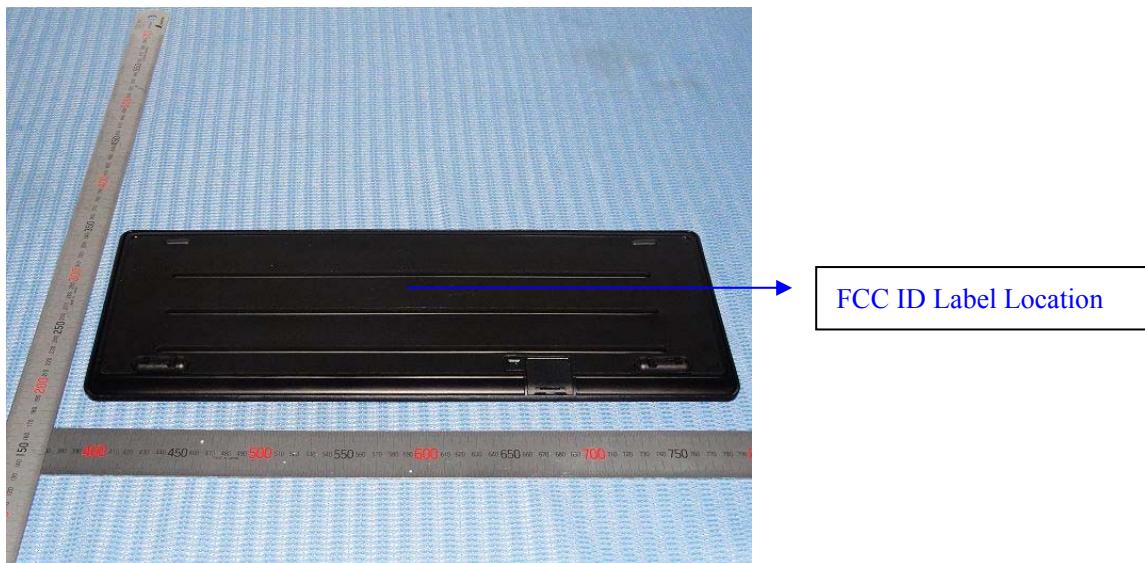
## 10.0 FCC ID Label

### FCC ID: XQLS-KW258SL

**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:



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## 11.0 Photo of testing

11.1 Conducted test View-- N/A  
11.2 Radiated emission test view



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### 11.3 Photographs - EUT

Outside View—Keyboard Part



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Outside View—Keyboard Part

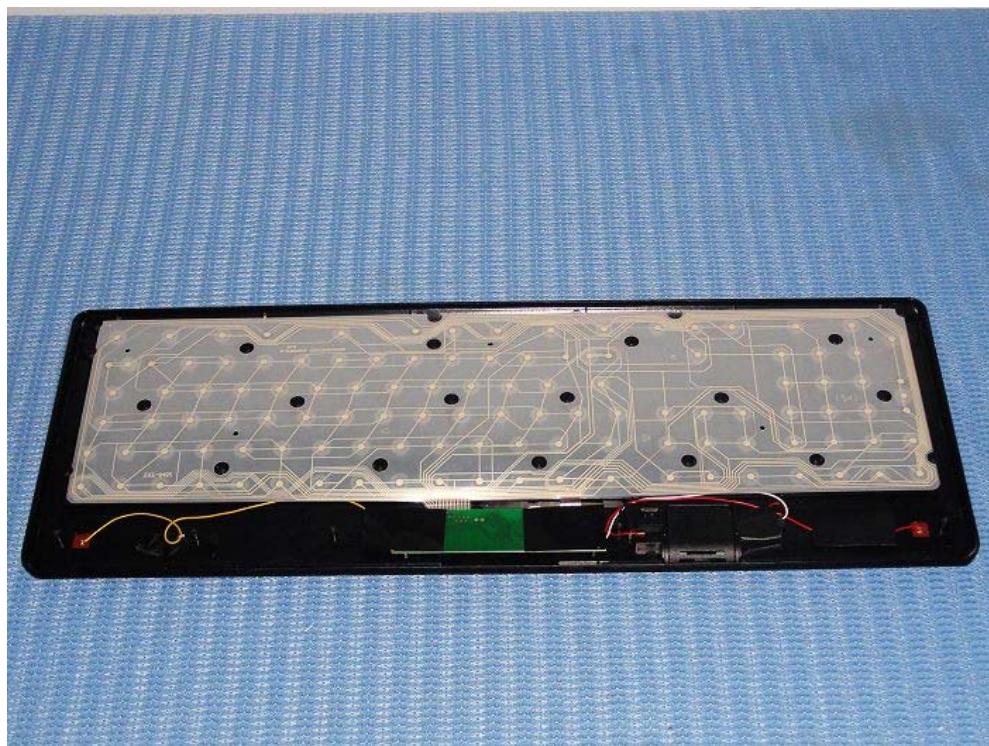


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Interior View—Keyboard Part

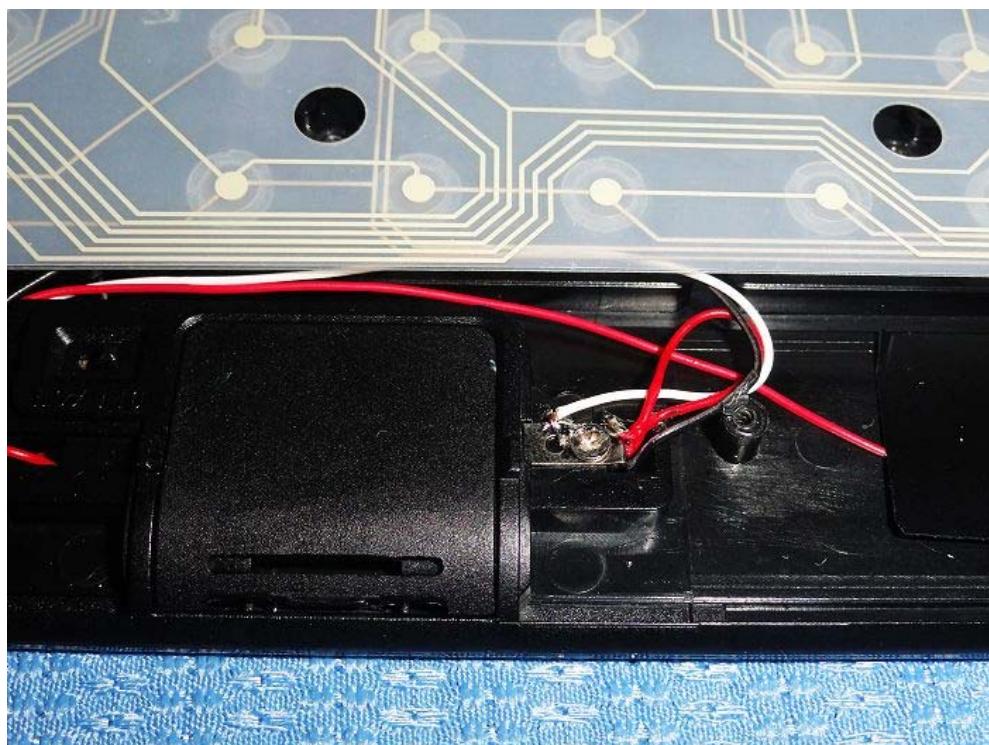


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Interior View—Keyboard Part

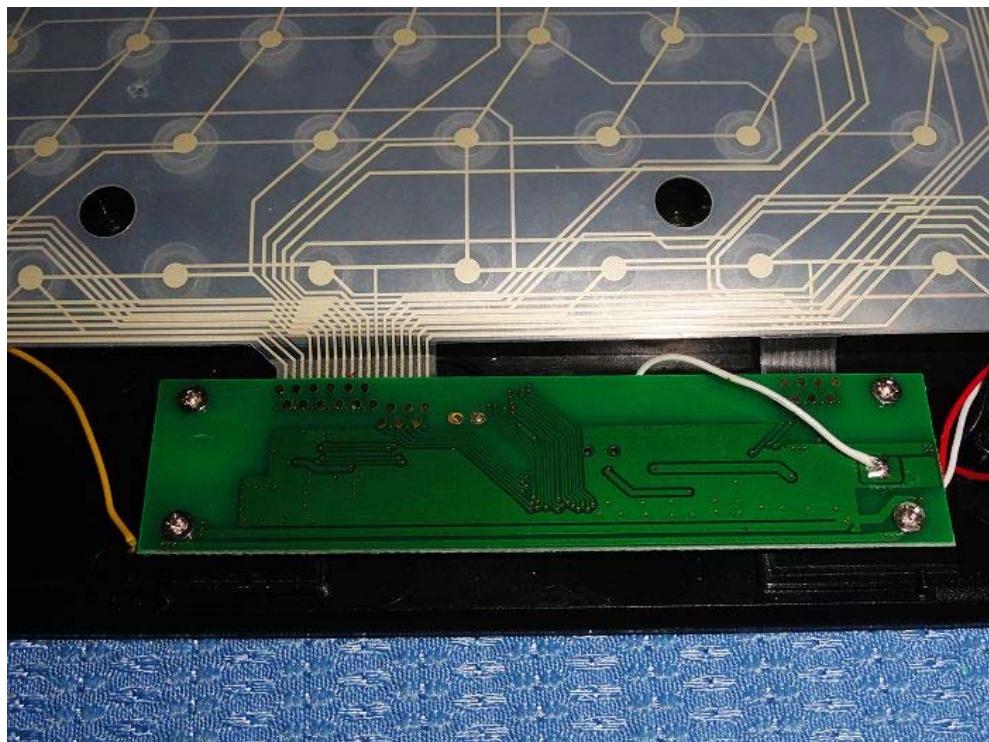


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### Interior View—Keyboard Part

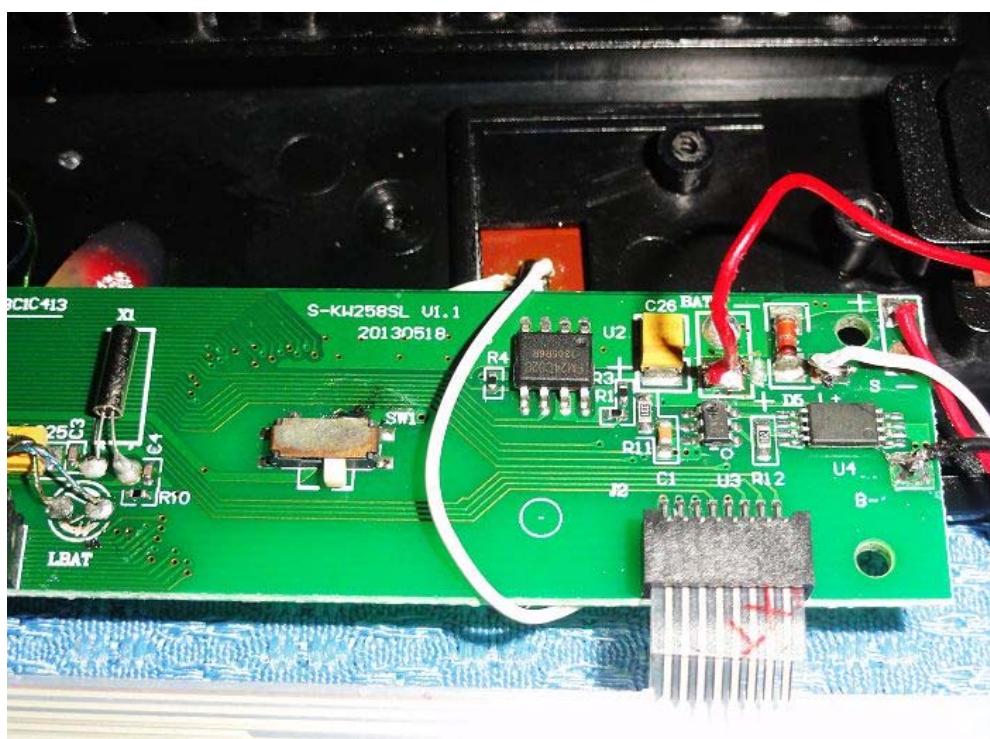
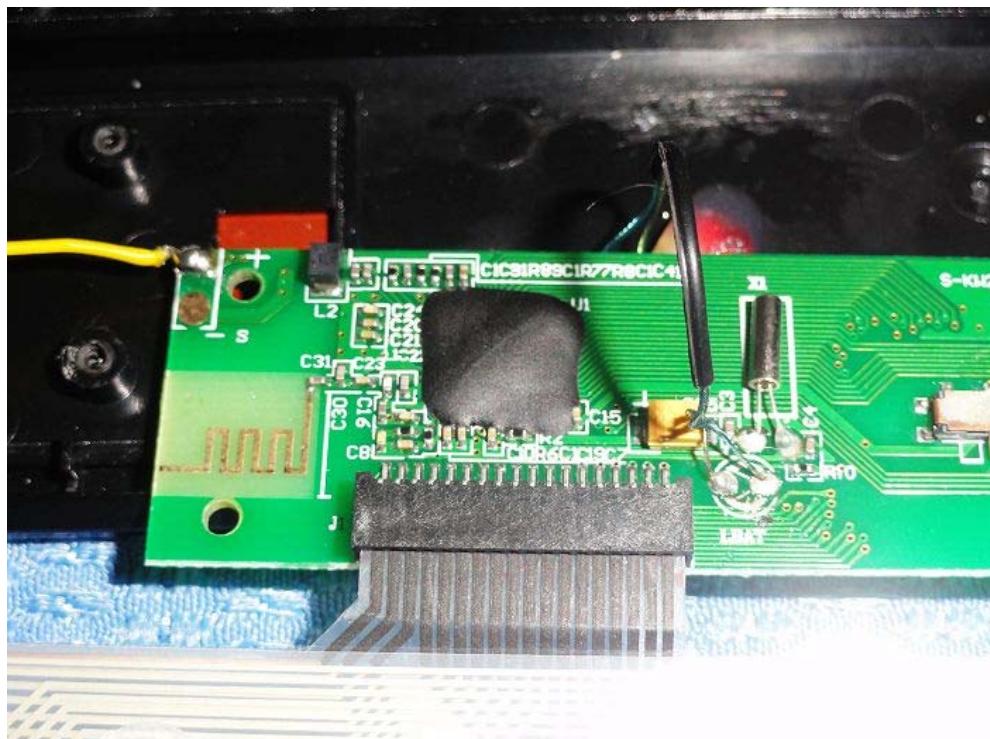


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### Interior View—Keyboard Part



--End of the report--

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