





ISO/IEC17025 Accredited Lab.

Report No: FCC1311053-01 File reference No: 2013-11-29

Applicant: Guangzhou Sunday Electronics Co., Ltd.

Product: Wireless Receiver

Model No: RX101

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: November 29, 2013

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

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian District, Shenzhen, CHINA.

Tel (755) 83448688 Fax (755) 83442996

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3-01

Special Statement:

Date: 2013-11-29

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 Fax: (755) 83442996

Site on File with the Federal Communications Commission – United Sates

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,511480, CHINA

Telephone: 020-84928933-805 Fax: 020-84928823

1.3 Description of EUT

Product: Wireless Receiver

Manufacturer: Guangzhou Sunday Electronics Co., Ltd.

Address: NO.236-238, MINSHENG RD., LANHE TOWN, NANSHA DISTRICT,

GUANGZHOU,511480, CHINA

Brand Name: Sunday
Model Number: RX101
Additional Model Name N/A
Additional Trade Name N/A

Rating: DC5.0V, Powered by PC

Modulation Type: GFSK

Operation Frequency 2402-2480MHz

Antenna Designation Printed antenna, which is built-in, designed as an indispensable part of the EUT.

Antenna gain is 0dBi

1.4 Submitted Sample

1 Sample

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

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TIMEWAY

1.5 Test Duration: 2013-11-13 to 2013-11-27

1.6 Test Uncertainty

Date: 2013-11-29

Conducted Emissions Uncertainty = 3.6dB Radiated Emissions Uncertainty = 4.7dB

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

2.0	Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date	
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2013-08-23	2014-08-22	
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2013-08-23	2014-08-22	
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2013-08-23	2014-08-22	
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2013-08-25	2014-08-24	
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2013-08-23	2014-08-22	
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2013-08-24	2014-08-23	
System Controller	CT	SC100	-			
Printer	EPSON	РНОТО ЕХЗ	CFNH234850			
Computer	IBM	8434	1S8434KCE99BLXL O*	-	-	
Loop Antenna	EMCO	6502	00042960	2013-08-23	2014-08-22	
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2013-08-23	2014-08-22	
3m OATS			N/A	2013-08-22	2014-08-21	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2013-08-24	2014-08-23	
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2013-08-24	2014-08-23	
Power meter	Anritsu	ML2487A	6K00003613	2013-08-24	2014-08-23	
Power sensor	Anritsu	MA2491A	32263	2013-08-24	2014-08-23	
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2013-08-24	2014-08-23	
LISN	AFJ	LS16C	10010947251	2013-08-23	2014-08-22	
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2013-08-23	2014-08-22	
9*6*6 Anechoic			N/A	2013-08-22	2014-08-21	

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EMI Test Receiver	RS	ESCS30	100139	2013-08-23	2014-08-22
LISN	AFJ	LS16C	10010947251	2013-08-23	2014-08-22
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2013-08-23	2014-08-22

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	PASS	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	
Limit	Test	1 A33	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

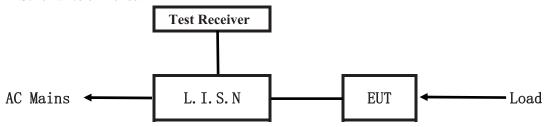
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

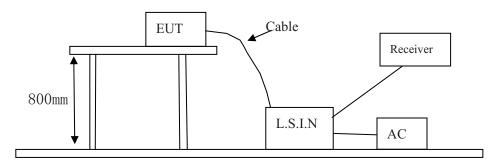


EUT: Equipment Under Test

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. Actual Working Voltage and Frequency: 120V~, 60Hz (PC Host)

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	Device Manufacturer		FCC ID
Wireless Receiver Guangzhou Sunday Electronics Co., Ltd.		RX101	XQLSD1115101

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B. Internal Device

De	vice	Manufacturer	Model	FCC ID/DOC
	[/A			

C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
Notebook	LENOVO	E43L	FCC DOC	
Notebook	IBM	R4	FCC DOC	
Mouse	DELL		FCC DOC	Data cable of 1.5m length unshielded
Passive				
Earphone			FCC VOC	Data cable of 1.5m length unshielded
LCD Monitor	SUMSANG	PH2450	FCC DOC	
Monitor	LG	LM170	FCC DOC	

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

Fraguanay(MHz)	Class A Lir	nits (dB µ V)	Class B Limits (dB μ V)	
Frequency(MHz)	Quasi-peak Level	Average Level	Quasi-peak Level	Average Level
$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*
$0.50 \sim 5.00$	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.

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A: Conducted Emission on Live Terminal (150kHz to 30MHz)

EUT Operating Environment

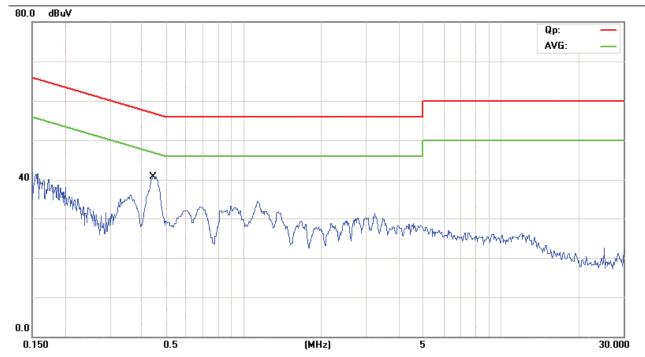
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Note: the curve as above is scanned by Peak detector, Margin is bigger than 10dB, then only show the plot as above.

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B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

EUT Operating Environment

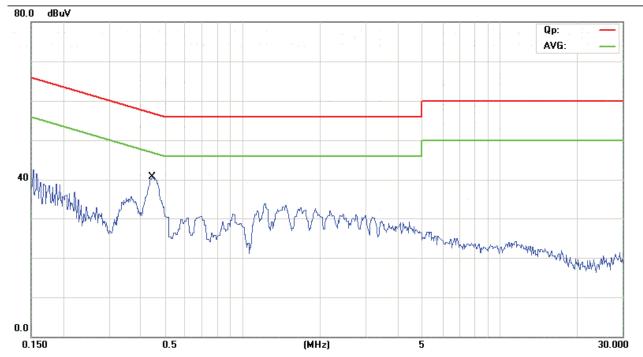
Temperature: 25°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Keep Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



Note: the curve as above is scanned by Peak detector, Margin is bigger than 10dB, then only show the plot as above.

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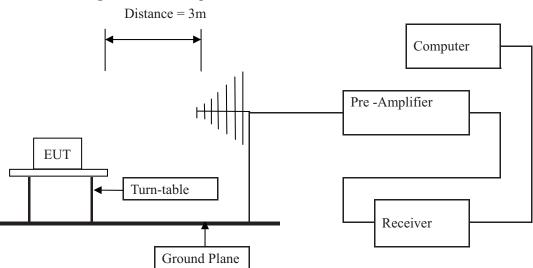
Date: 2013-11-29



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	Field Strength of Fundamental (3m)			Field S	trength of Harmo	nics (3m)
(MHz)	mV/m	dBuV/m		uV/m	dBu	V/m
2400-2483.5	50	94 (Average)	114 (Peak)	500	54 (Average)	74 (Peak)

Note:

- 1. RF Field Strength (dBuV) = 20 log 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 µ 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 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. 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

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6.5 Test result

Fundamental & Harmonics Radiated Emission Data A

Product:	Wireless Receiver	Test Mode:	Low Channel—Keep Transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	5.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2402	90.89 (PK)	Н	114/94	-3.11
2402	91.89 (PK)	V	114/94	-2.11
4804		H/V	74/54	
7206		H/V	74/54	
9608		H/V	74/54	
12010		H/V	74/54	
14412		H/V	74/54	
16814		H/V	74/54	
19216		H/V	74/54	
21618		H/V	74/54	
24020		H/V	74/54	

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Product:	Wireless Receiver	Test Mode:	Middle Channel—Keep Transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	5.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2448	89.94 (PK)	Н	114/94	-4.06
2448	89.44 (PK)	V	114/94	4.56
4896		H/V	74/54	
7344		H/V	74/54	
9792		H/V	74/54	
12240		H/V	74/54	
14688		H/V	74/54	
17136		H/V	74/54	
19584		H/V	74/54	
22032		H/V	74/54	
24480		H/V	74/54	

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Product:	Wireless Receiver	Test Mode:	High Channel—Keep Transmitting
Test Item:	Fundamental Radiated Emission Data	Temperature:	25℃
Test Voltage:	5.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency	Emission PK/AV	Horiz /	Limits PK/AV	Margin
(MHz)	(dBuV/m)	Vert	(dBuV/m)	(dB)
2480	89.70(PK)	Н	114/94	-4.30
2480	91.20 (PK)	V	114/94	-2.80
4960		H/V	74/54	
7440		H/V	74/54	
9920		H/V	74/54	
12400		H/V	74/54	
14880		H/V	74/54	
17360		H/V	74/54	
19840		H/V	74/54	
22320		H/V	74/54	
24800		H/V	74/54	

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

- (2) Emission Level = Reading Level + Probe 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.

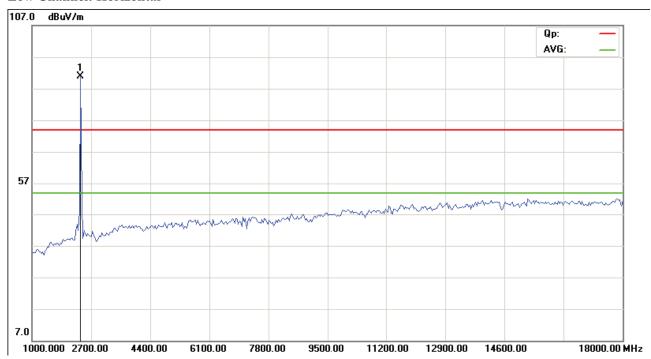
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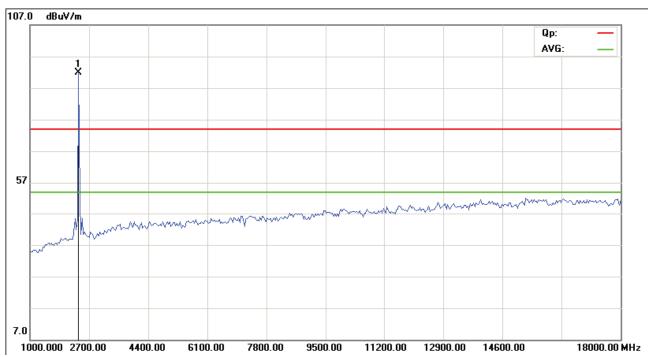


Please refer to the following test plots for details:

Low Channel: Horizontal



Low Channel: Vertical



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

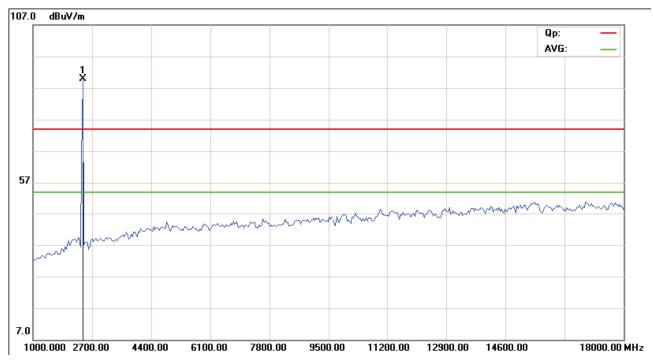
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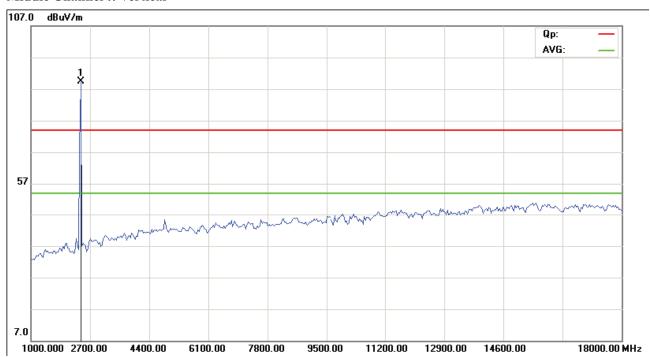
Date: 2013-11-29



Middle Channel: Horizontal



Middle Channel :: Vertical



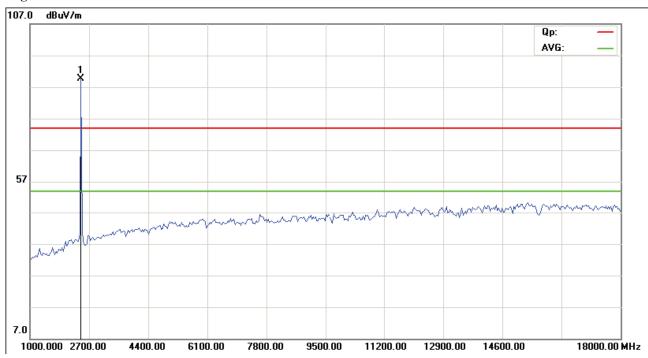
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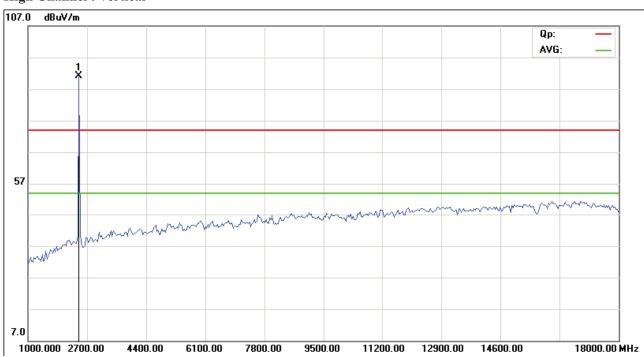
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High Channel: Horizontal



High Channel: Vertical



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

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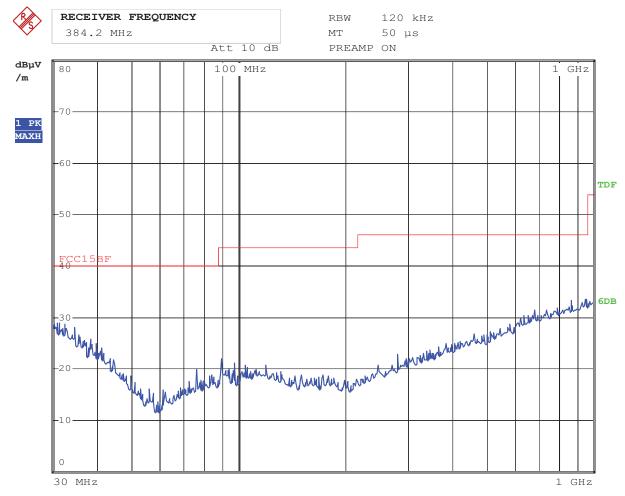


B. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



Date: 27.NOV.2013 10:15:01

Note: the curve as above is scanned by Peak detector, Margin is bigger than 10dB, then only show the plot as above.

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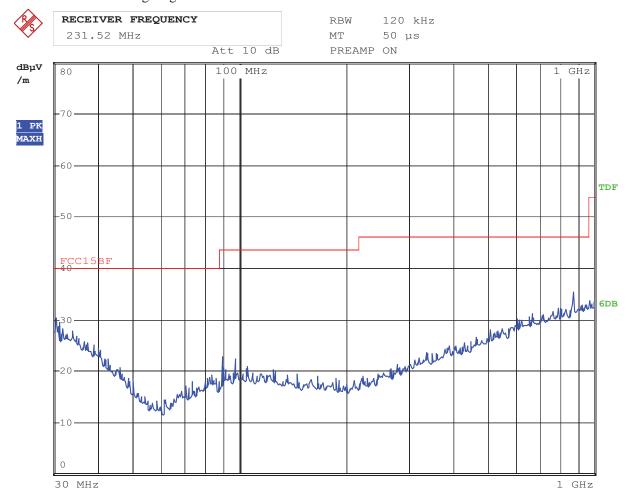


Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting Mode: Low Channel

Results: Pass

Please refer to following diagram for individual



Date: 27.NOV.2013 10:12:45

Note: the curve as above is scanned by Peak detector, Margin is bigger than 10dB, then only show the plot as above.

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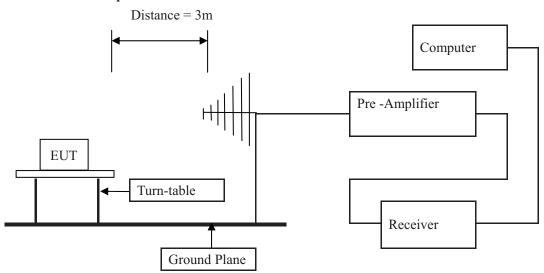


7. Band Edge

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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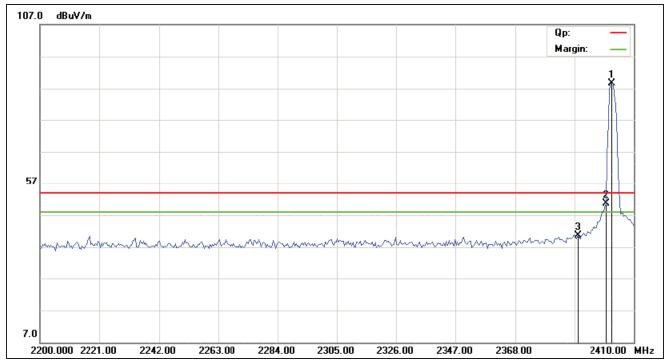


7.6 Restrict Band Test Result

Product:	Wireles	s Receiver	Test Mode:	Low Channel		
Mode	Keeping Transmitting		Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C		Humidity	56% RH		
Test Result:	Pass		Detector	PK		
2390MHz	PK (dBμV/m)	40.61	Limit	74(dBµV/m)		
2390IVITIZ	AV(dBμV/m)		Lillit	54(dBµV/m)		
2400MHz	PK (dBμV/m)	50.69		74(dBµV/m)		
	AV(dBμV/m)			54(dBµV/m)		

Test Figure:

Horizontal:



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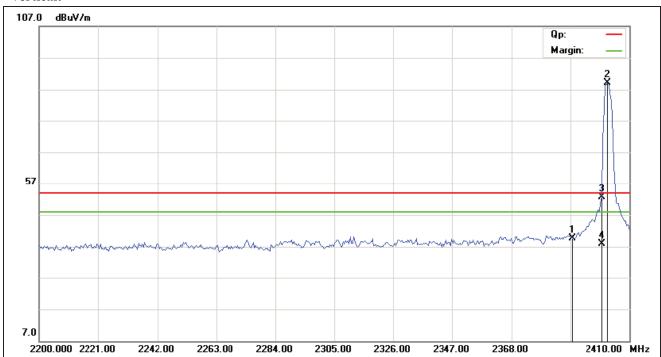


7.6 Restrict Band Test Result

Product:	Wireles	s Receiver	Test Mode:	Low Channel
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
2390MHz	PK (dBμV/m)	39.61	Limit	74(dBµV/m)
2390NITZ	AV(dBμV/m)		LIIIII	54(dBµV/m)
2400MHz	PK (dBμV/m)	52.69	Limit	74(dBµV/m)
	AV(dBμV/m)	37.82		54(dBµV/m)

Test Figure:

Vertical:



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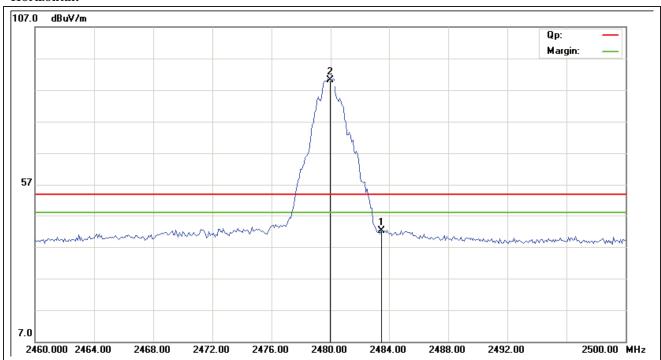


7.6 Restrict Band Test Result

Product:	Wireles	s Receiver	Test Mode:	High Channel
Mode	Keeping	Γransmitting	Test Voltage	DC5V
Temperature	24 (deg. C	Humidity	56% RH
Test Result:	Pass		Detector	PK
2492 5MHz	PK (dBμV/m)	42.1	Limit	$74(dB\mu V/m)$
2483.5MHz	$AV(dB\mu V/m)$		LIIIII	$54(dB\mu V/m)$

Test Figure:

Horizontal:



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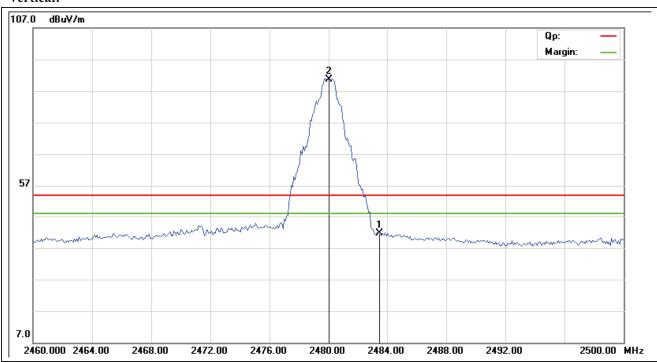


7.6 Restrict Band Test Result

Product:	Wireles	s Receiver	Test Mode:	High Channel
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 (deg. C	Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5MHz	PK (dBμV/m)	41.6	Limit	$74(dB\mu V/m)$
2403.3WITZ	AV(dBμV/m)		LIIIII	54(dBµV/m)

Test Figure:

Vertical:



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TESTIFIC LABS

8.0 Antenna Requirement

Date: 2013-11-29

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.

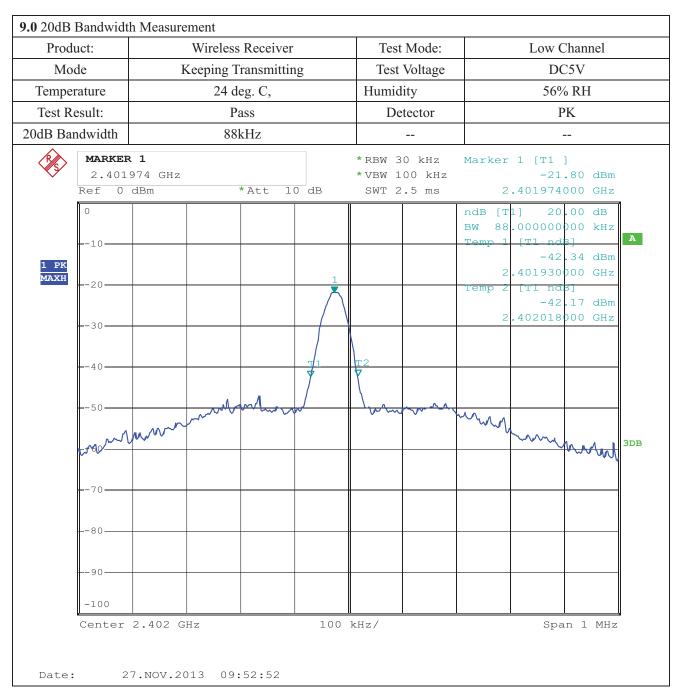
Test Result: Pass

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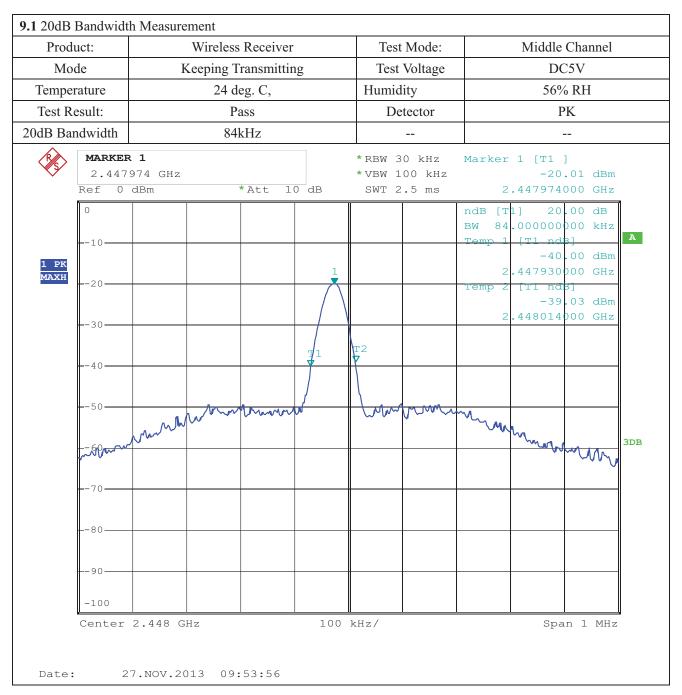


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Produ	act:	Wireless Receiver Keeping Transmitting			Wireless Receiver Test Mode:		t Mode:	High Channel			
Mod	de				Test Voltage		DC5V				
Temper	Temperature 24 deg. C,				Humidity			56% RH			
Test Result: Pass				Detector			PK				
20dB Bar	ndwidth		86	kHz							
MARKEI 2.479 Ref 0		R 1 9972 GHz			0 dB	*RBW 30 kHz *VBW 100 kHz SWT 2.5 ms		Marker 1 [T1] -22.64 dBm 2.479972000 GHz			
	0							ndB [T	1] 20 .000000 [T1 ndi	.00 dB)00 kHz	A
1 РК МАХН	20				1			2 Temp Ž	.479930		
	30							2	.480016	000 GHz	
	40 50		Δ \ a.	mm			N				
	60 	M		Www.		٧٠٨٠	UW 20 V V		MM	mu	3DB
	70										
	80 90										
	-100										
	Center	2.48 GH	łz		100	kHz/			Spa	n 1 MHz	

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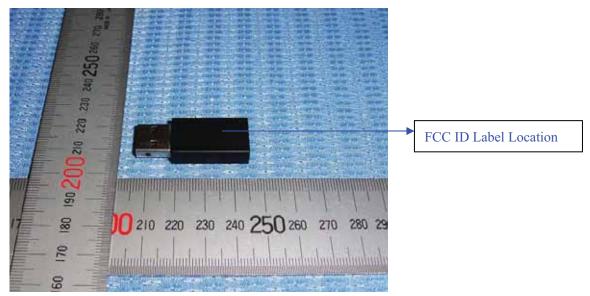


10.0 FCC ID Label

FCC ID: XQLSD1115101

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:



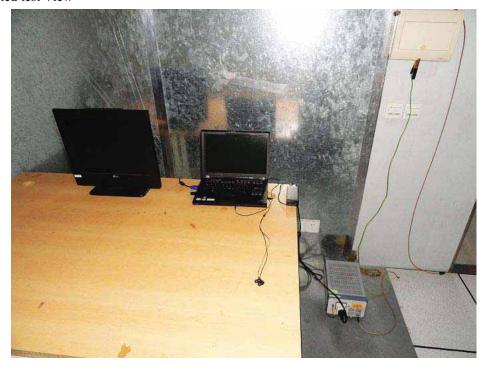
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11.0 Photo of testing

11.1 Conducted test View--



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11.2 Radiated emission test view



11.2 Radiated emission test view



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

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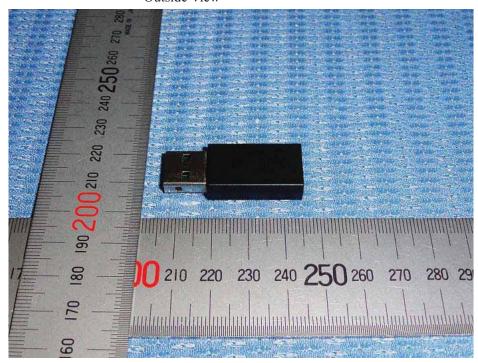
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11.3 Photo for the EUT

Outside View





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Photo for the EUT

Outside View

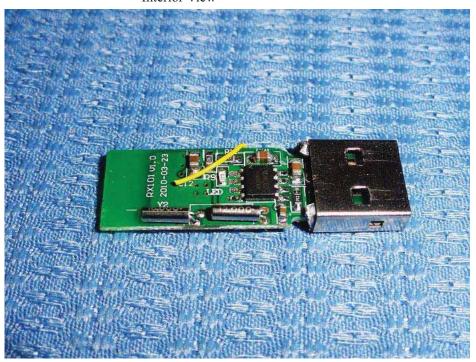


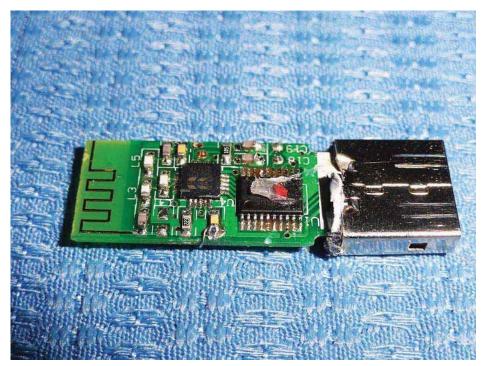
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Interior View





-- End of the report--

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