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ISO/IEC17025 Accredited Lab.

Report No: FCC1405066
File reference No: 2014-05-14

Applicant: Hi-Dow Electron Technology (Hefei) Co., Ltd.

Product: HiDow Wireless Tens/EMC System

Model No: HD-5N-TX

Brand Name: HiDow

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: May 14, 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

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

Tel (755) 83448688 Fax (755) 83442996



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
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: Hi-Dow Electron Technology (Hefei) Co., Ltd.
Address: Building D17/22,Baiyan Science & Technology Industrial Park,168 Xiangzhang Road, Hefei, Anhui, China
Telephone: 0551-62227909
Fax: 0551-65322298

1.3 Description of EUT

Product:	HiDow Wireless Tens/EMC System
Manufacturer:	Hi-Dow Electron Technology (Hefei) Co., Ltd.
Address:	Building D17/22,Baiyan Science & Technology Industrial Park,168 Xiangzhang Road, Hefei, Anhui, China
Model Number:	HD-5N-TX
Additional Model Name	N/A
Additional Trade Name	HiDow
Rating:	DC3.7V powered by Lion-Battery
Modulation Type:	GFSK
Operation Frequency	2426MHz, 2448MHz, 2478MHz
Antenna Designation	PCB Antenna with Gain 2.0dBi

1.4 Submitted Sample

1 Sample

1.5 Test Duration

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2014-05-09 to 2014-05-13

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	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	PHOTO EX3	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
EMI Test Receiver	RS	ESCS30	100139	2013-08-23	2014-08-22

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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	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

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

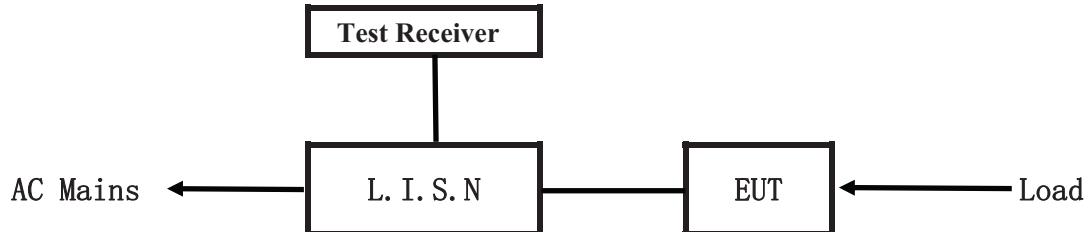
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5. Power Line Conducted Emission Test

5.1 Schematics of the test

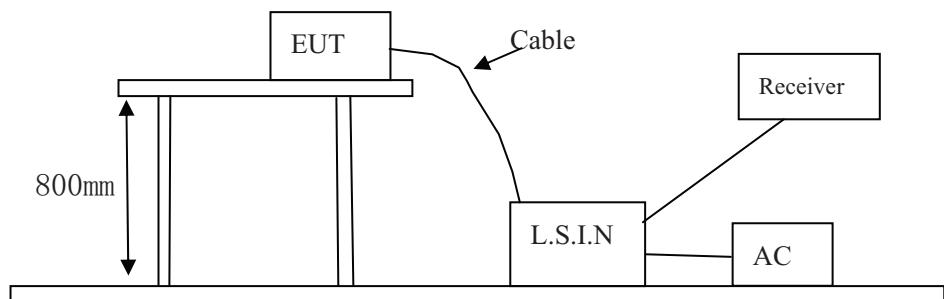


EUT: Equipment Under Test

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
HiDow Wireless Tens/EMC System	Hi-Dow Electron Technology (Hefei) Co., Ltd.	HD-5N-TX	2ACD4HD-5N-TX

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

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C. Peripherals

Device	Manufacturer	Model	FCC ID/DOC	Cable
Power supply	SIMSUKIAN	SK21G-0500200U	VOC	--

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 μ V)		Class B Limits (dB μ 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.

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

EUT Operating Environment

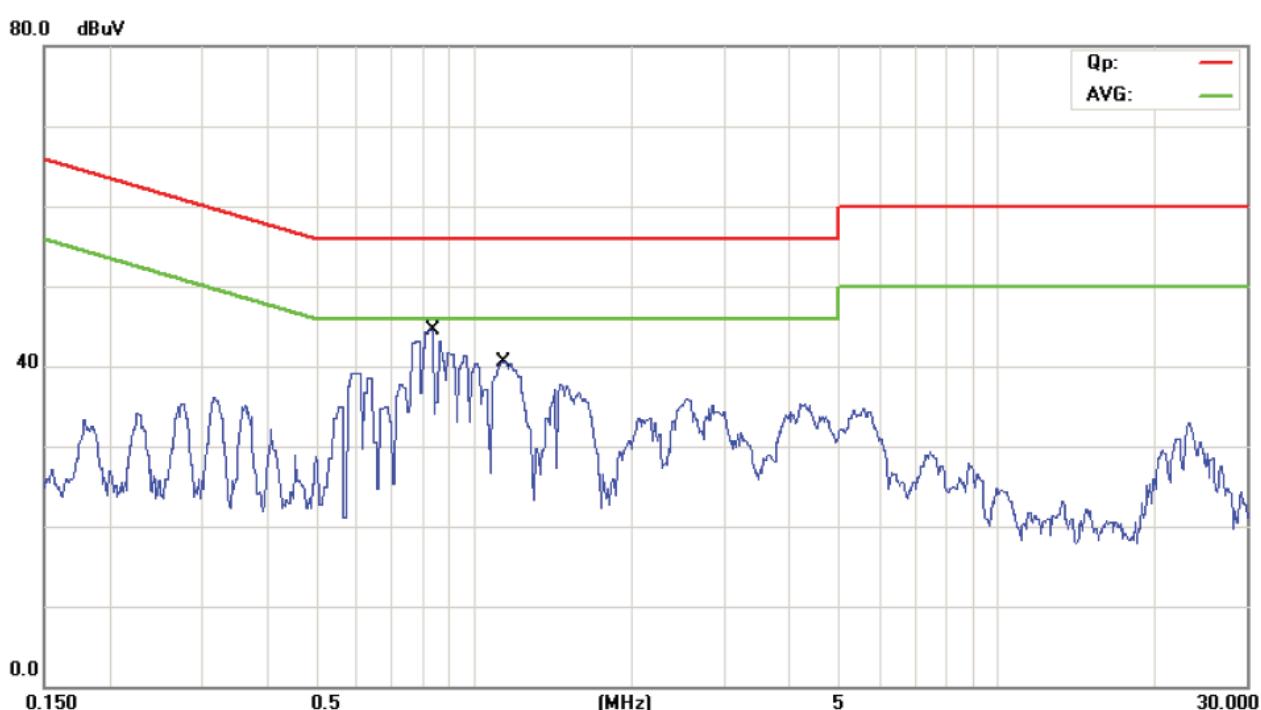
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Keep Transmitting

Equipment Level: Class B

Results: PASS

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.8284	31.60	11.72	43.32	56.00	-12.68	QP	
2		0.8284	12.10	11.72	23.82	46.00	-22.18	AVG	
3		1.1320	26.60	11.95	38.55	56.00	-17.45	QP	
4		1.1320	10.80	11.95	22.75	46.00	-23.25	AVG	

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

EUT Operating Environment

Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Charging and Keep Transmitting

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	Detector	Comment
			Level	Factor	ment				
1	*	0.8723	32.80	11.76	44.56	56.00	-11.44	QP	
2		0.8723	16.10	11.76	27.86	46.00	-18.14	AVG	

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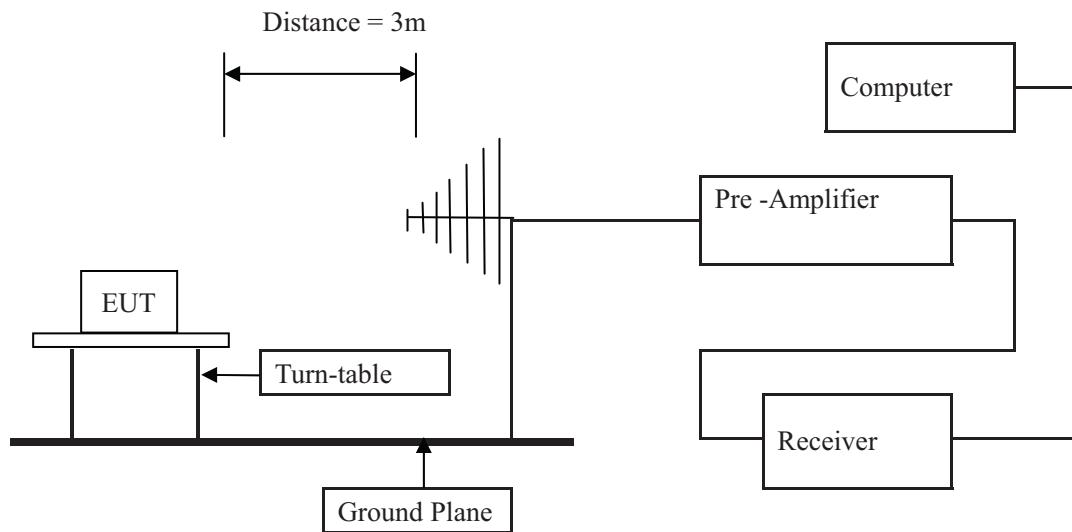
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6 Radiated Emission Test

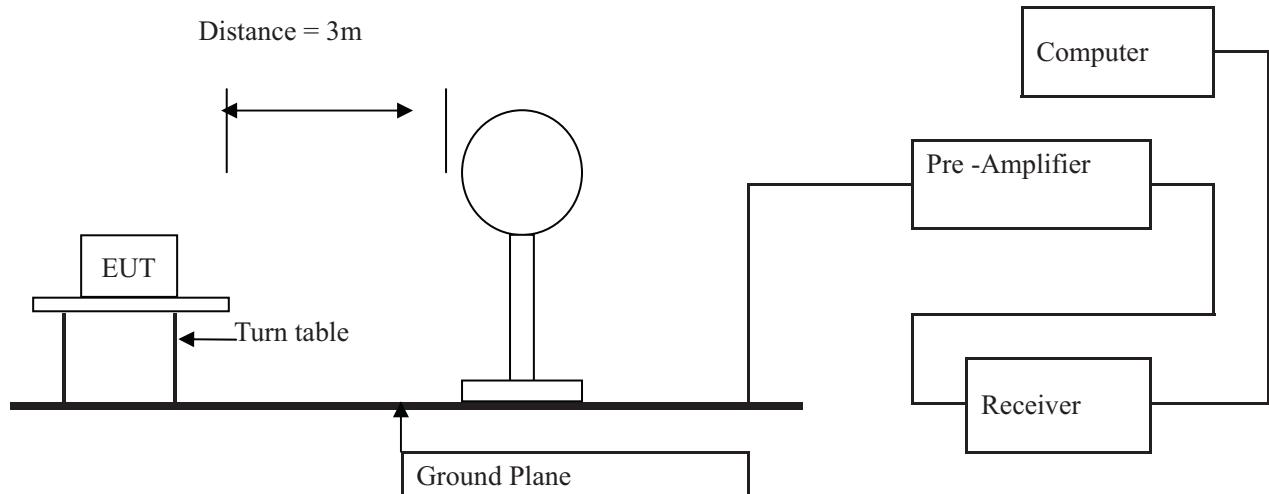
6.1 Test Method and test Procedure:

- (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.8999988
- (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



Block diagram of Test setup for frequency below 30MHz



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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.

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)		
	mV/m	dBuV/m	uV/m	dBuV/m	uV/m	dBuV/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 and AV detector.

5. 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.

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6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Product:	HiDow Wireless Tens/EMC System	Test Mode:	Low Channel- keep transmitting
Test Item:	Fundamental and Harmonic Radiated Emission Data	Temperature:	25°C
Test Voltage:	3.7VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2426	89.42(PK)	H	114/94	-4.58
2426	87.37(PK)	V	114/94	-6.63
4852	--	H/V	74/54	--
7278	--	H/V	74/54	--
9704	--	H/V	74/54	--
12130	--	H/V	74/54	--
14556	--	H/V	74/54	--
16982	--	H/V	74/54	--
19408	--	H/V	74/54	--
21834	--	H/V	74/54	--
24260	--	H/V	74/54	--

Note: Fundamental Radiated Emissions Measured with PK detector, RBW=3MHz, VBW=10MHz

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Product:	HiDow Wireless Tens/EMC System	Test Mode:	Middle Channel- keep transmitting
Test Item:	Fundamental and Harmonic Radiated Emission Data	Temperature:	25°C
Test Voltage:	3.7VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2448	89.36 (PK)	H	114/94	-4.64
2448	89.21 (PK)	V	114/94	-4.79
4896	--	H	74/54	--
7344	--	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	--

Note: Fundamental Radiated Emissions Measured with PK detector, RBW=3MHz, VBW=10MHz

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Product:	HiDow Wireless Tens/EMC System	Test Mode:	High Channel- keep transmitting
Test Item:	Fundamental and Harmonic Radiated Emission Data	Temperature:	25°C
Test Voltage:	3.7VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2478	90.48(PK)	H	114/94	-3.52
2478	88.32(PK)	V	114/94	-5.68
4956	--	H/V	74/54	--
7434	--	H/V	74/54	--
9912	--	H/V	74/54	--
12390	--	H/V	74/54	--
14868	--	H/V	74/54	--
17346	--	H/V	74/54	--
19824	--	H/V	74/54	--
22302	--	H/V	74/54	--
24780	--	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) Note: Fundamental Radiated Emissions Measured with PK detector, RBW=3MHz, VBW=10MHz

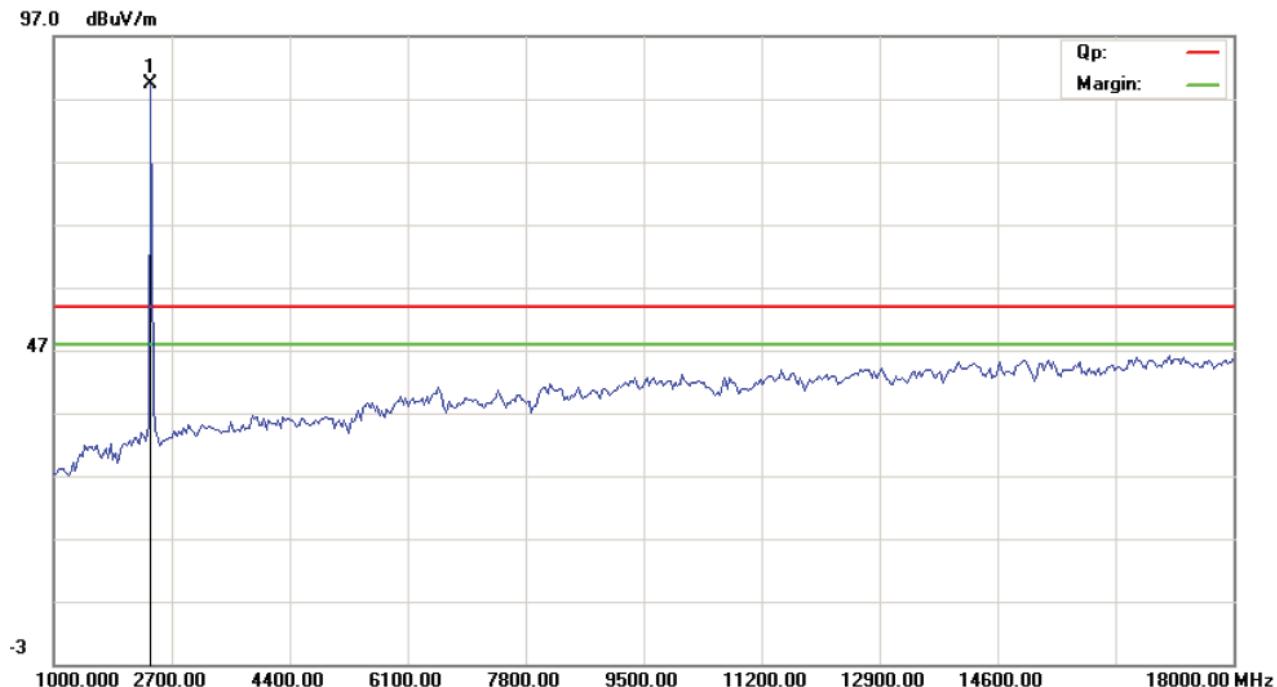
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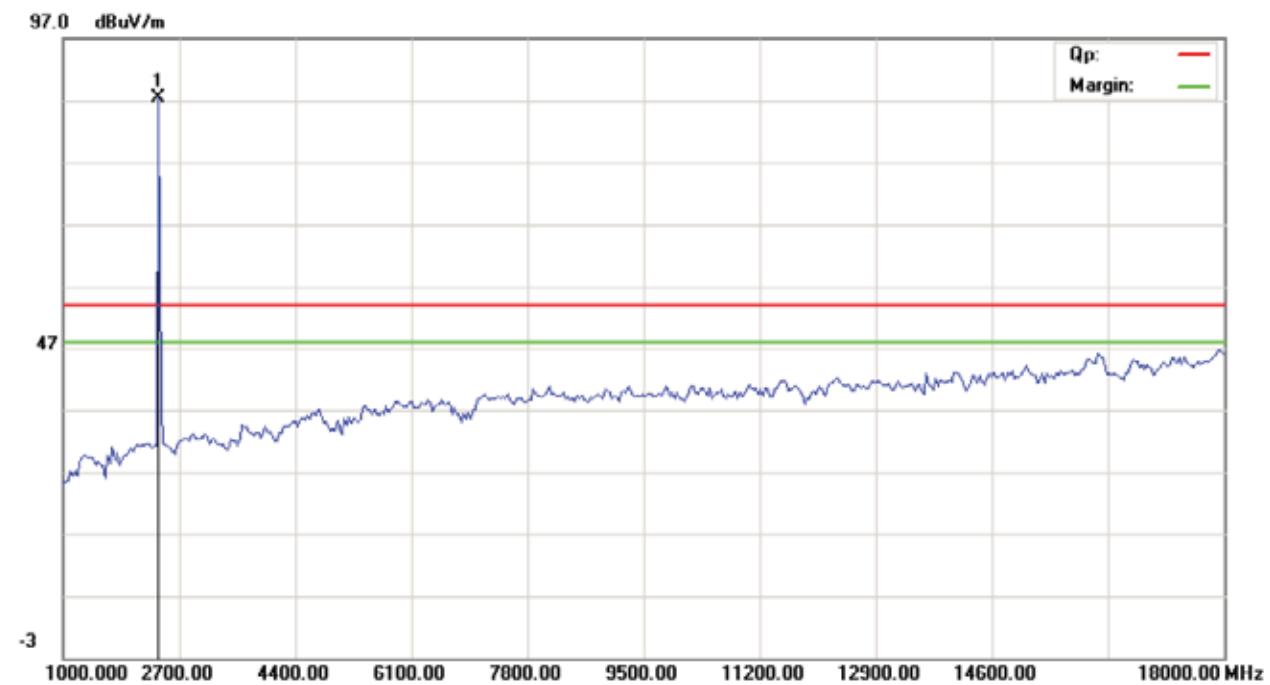
In the event of the improper use of the report. The Shenzhen Timeway Technology Consulting co .,Ltd reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.

Please refer to the following test plots for details:

Low Channel: Horizontal



Low Channel : Vertical

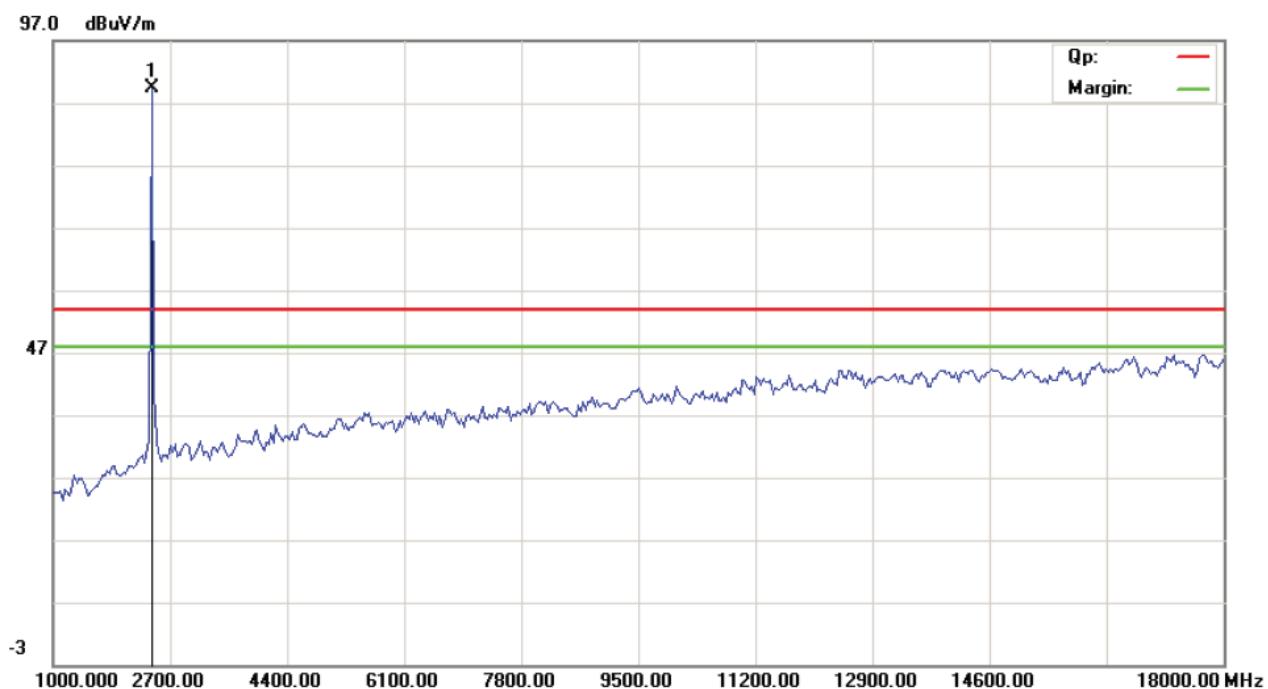


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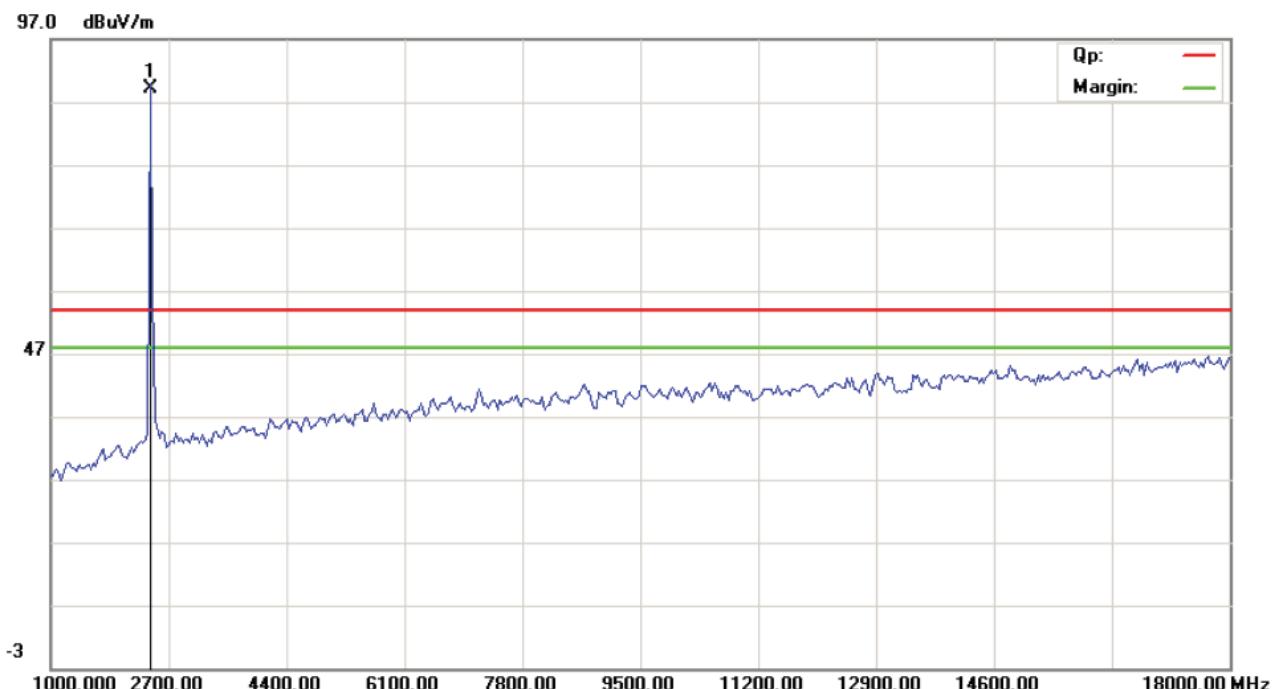
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Middle Channel : Horizontal



Middle Channel : Vertical

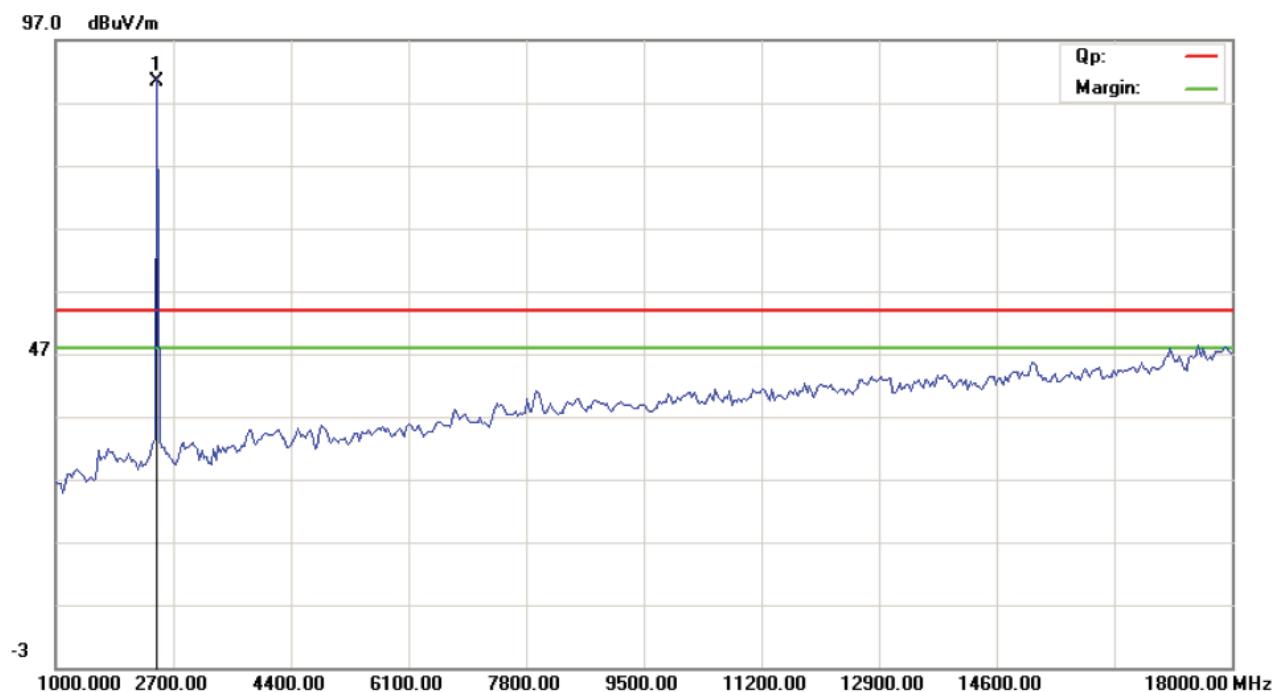


The report refers only to the sample tested and does not apply to the bulk.

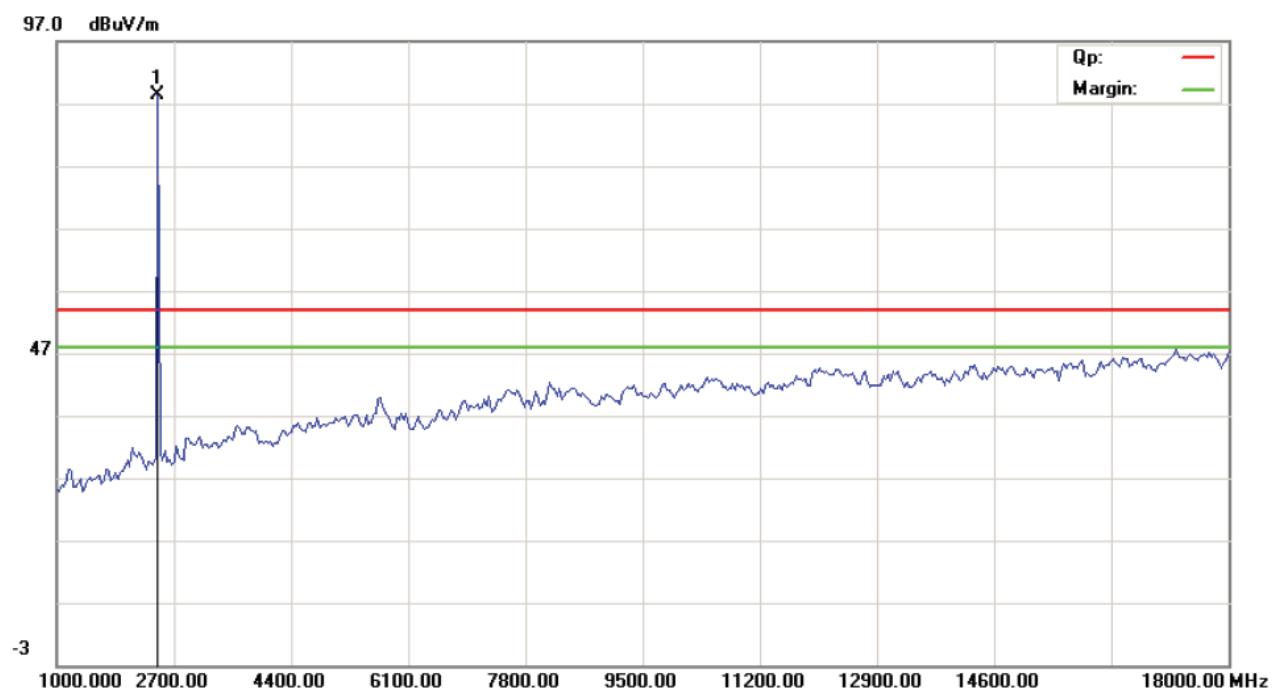
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High Channel : Horizontal



High Channel : Vertical



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

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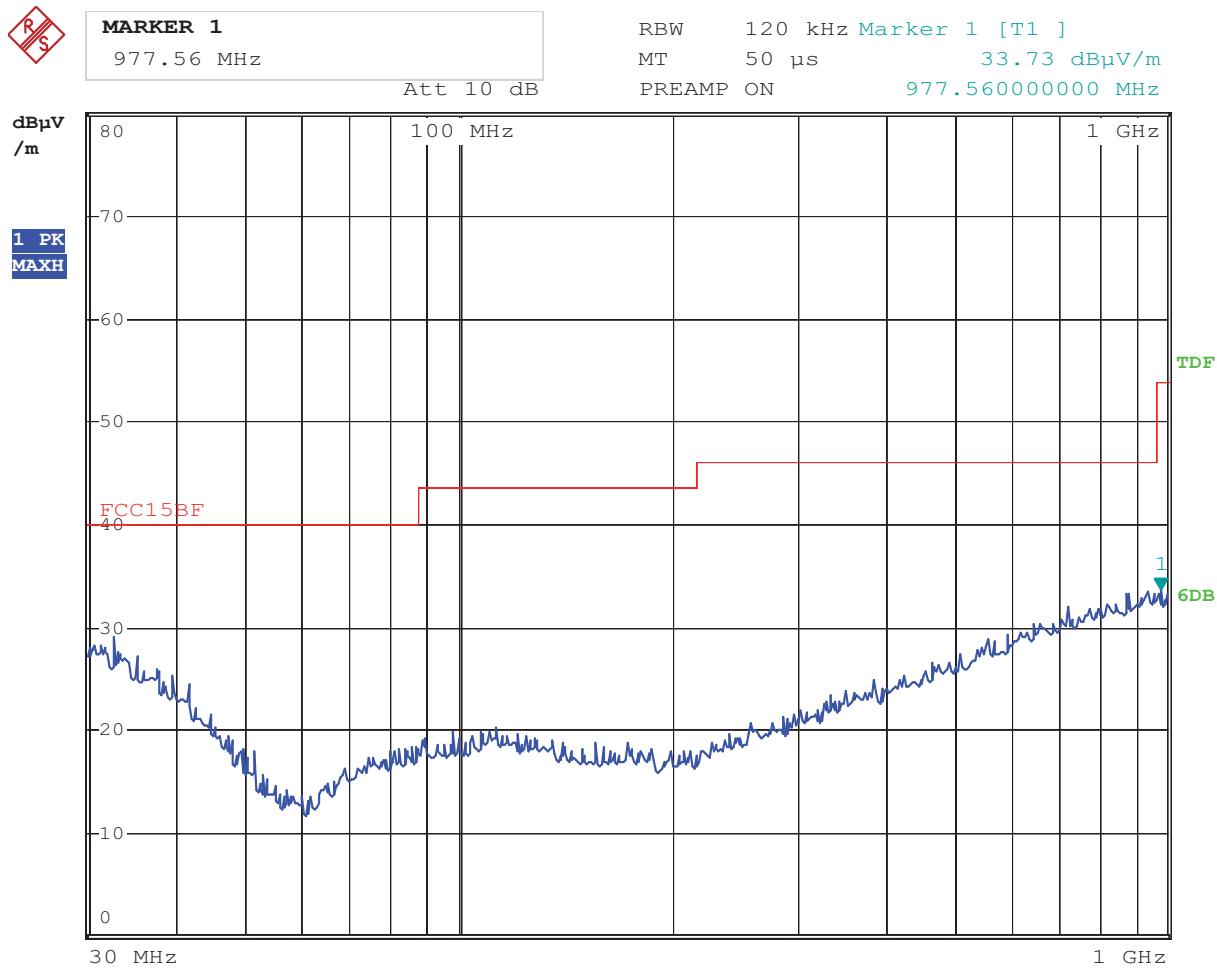
General Radiated Emission Data

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

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



Date: 13.MAY.2014 19:14:24

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

-The test data shows much less than the limit, no necessary take down the results.

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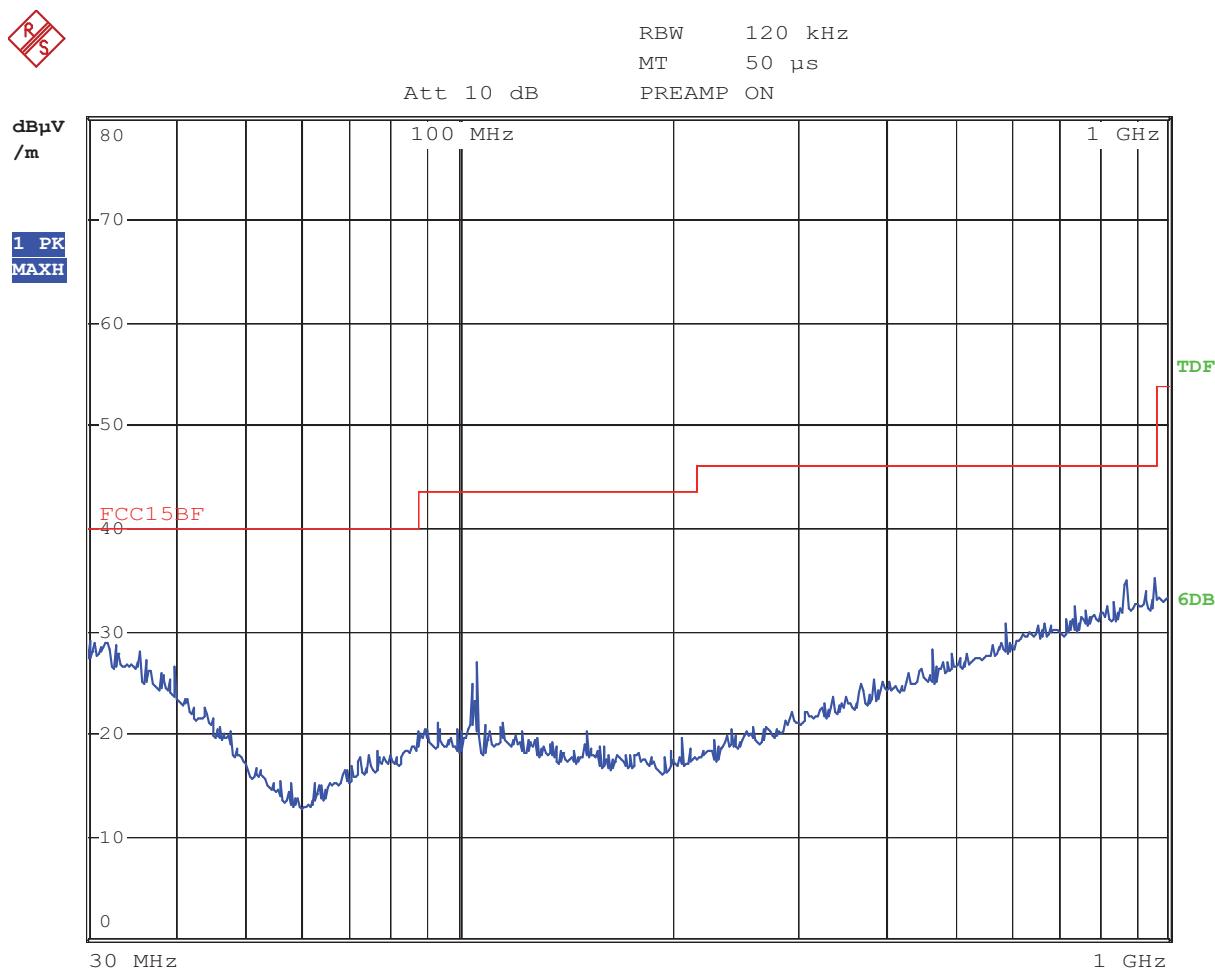
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Radiated Emission In Vertical 30MHz---1000MHz)

EUT set Condition: Keep Tx transmitting

Results: Pass

Please refer to following diagram for individual



Date: 13.MAY.2014 19:15:43

Frequency (MHz)	Level@3m (dB μ V/m)	Antenna Polarity	Limit@3m (dB μ V/m)
--	--	--	--

-The test data shows much less than the limit, no necessary take down the results.

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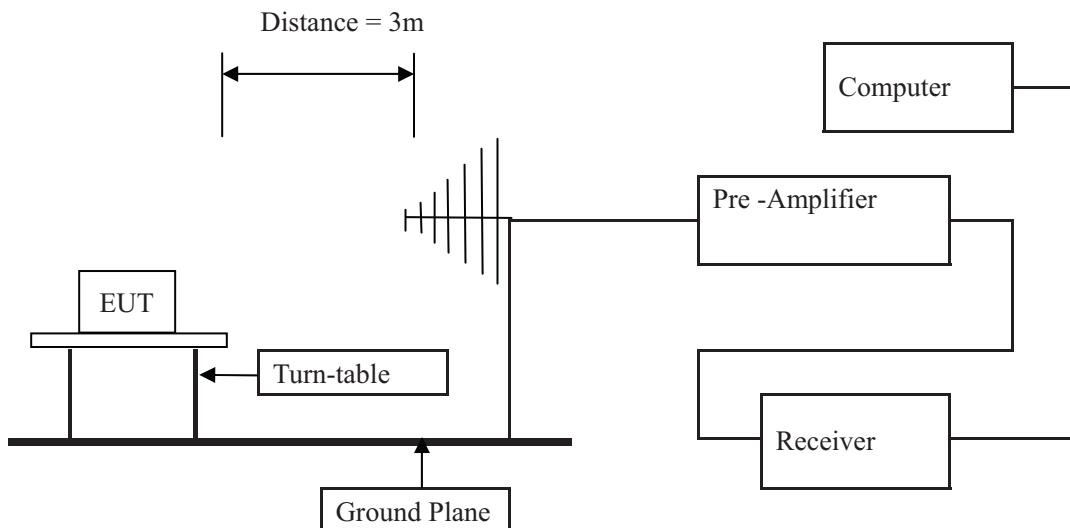
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7. Band Edge

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.

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7.6 Test Result

Horizontal:

Product:	HiDow Wireless Tens/EMC System		Test Mode:	Low Channel- keep transmitting
Mode	Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2390MHz	PK (dB μ V/m)	39.26	Limit	74(dB μ V/m)
	AV(dB μ V/m)	--		54(dB μ V/m)
2400MHz	PK (dB μ V/m)	41.30	Limit	74(dB μ V/m)
	AV(dB μ V/m)	--		54(dB μ V/m)

Vertical:

Product:	HiDow Wireless Tens/EMC System		Test Mode:	Low Channel- keep transmitting
Mode	Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2390MHz	PK (dB μ V/m)	38.71	Limit	74(dB μ V/m)
	AV(dB μ V/m)	--		54(dB μ V/m)
2400MHz	PK (dB μ V/m)	39.82	Limit	74(dB μ V/m)
	AV(dB μ V/m)	--		54(dB μ V/m)

Horizontal:

Product:	HiDow Wireless Tens/EMC System		Test Mode:	High Channel- keep transmitting
Mode	Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5MHz	PK (dB μ V/m)	40.16	Limit	74(dB μ V/m)
	AV(dB μ V/m)	--		54(dB μ V/m)

Vertical				
Product:	HiDow Wireless Tens/EMC System		Test Mode:	High Channel- keep transmitting
Mode	Keeping Transmitting		Test Voltage	DC3.7V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.5MHz	PK (dB μ V/m)	39.55	Limit	74(dB μ V/m)
	AV(dB μ V/m)	--		54(dB μ V/m)

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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 Antenna. The antenna gain is 2.0dBi. It fulfill the requirement of this section.

Test Result: Pass

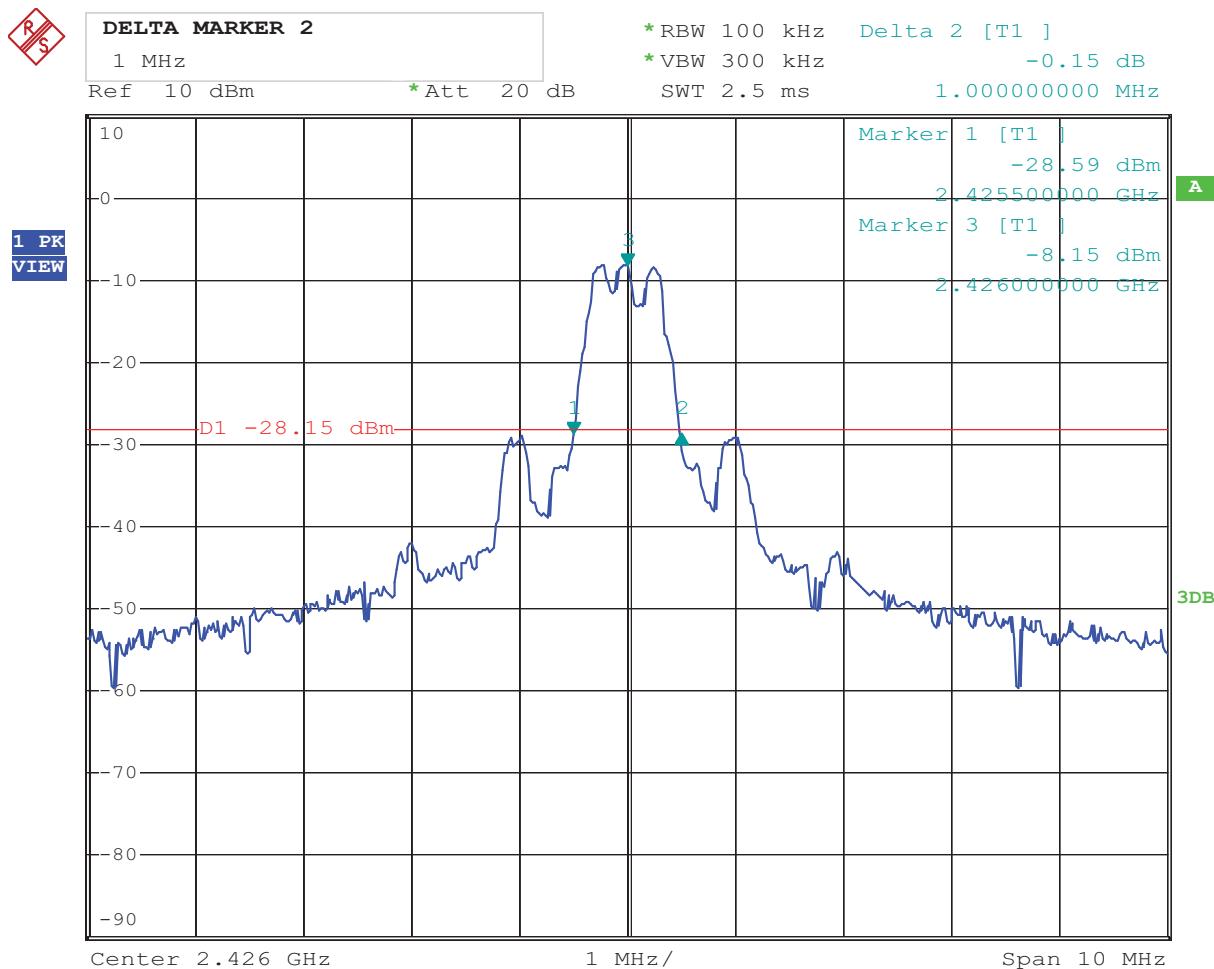
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9.0 20dB Bandwidth Measurement

Product:	HiDow Wireless Tens/EMC System	Test Mode:	Low Channel- keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1000kHz	--	--



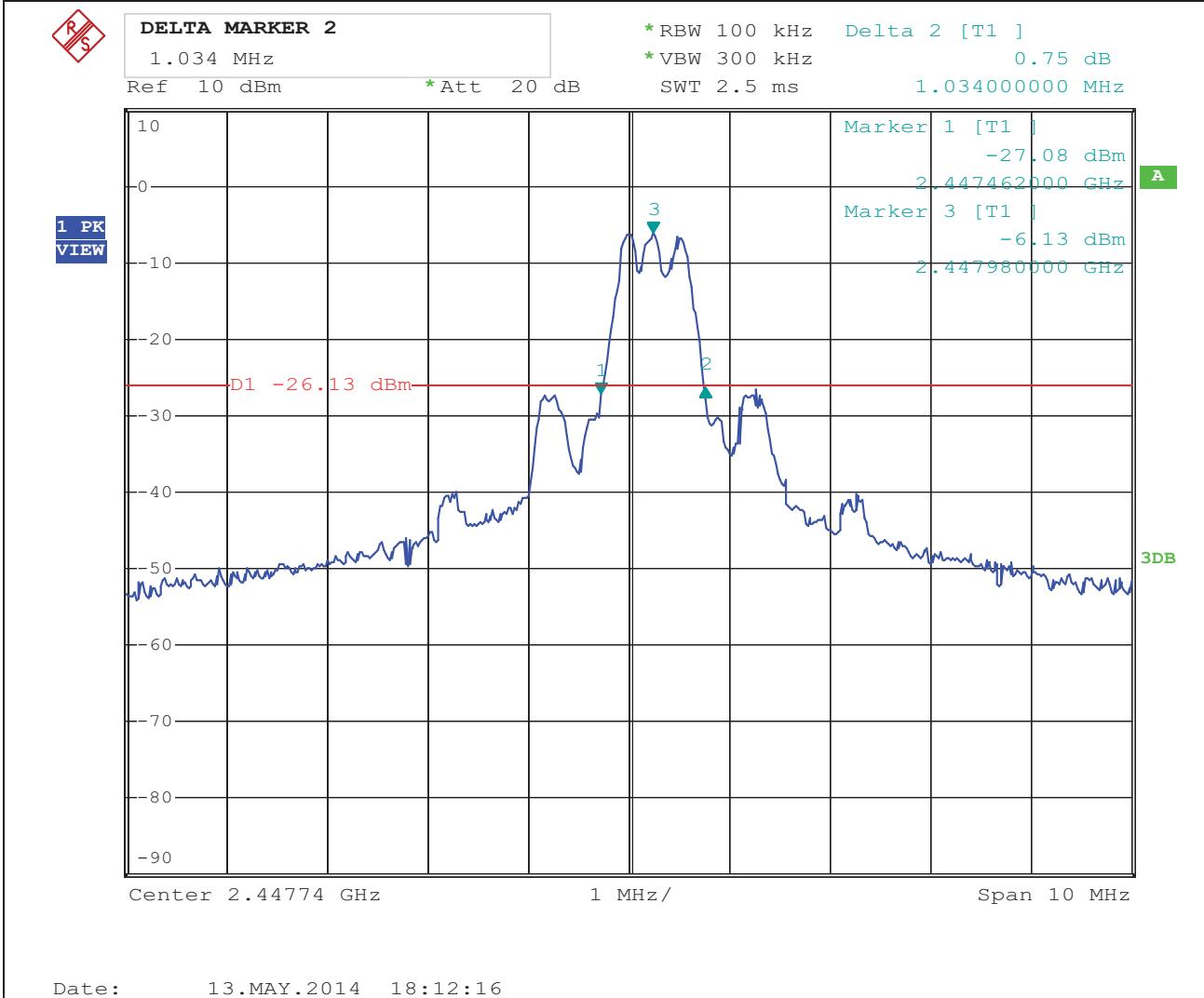
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9.1 20dB Bandwidth Measurement

Product:	HiDow Wireless Tens/EMC System	Test Mode:	Middle Channel-keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	1034kHz	--	--



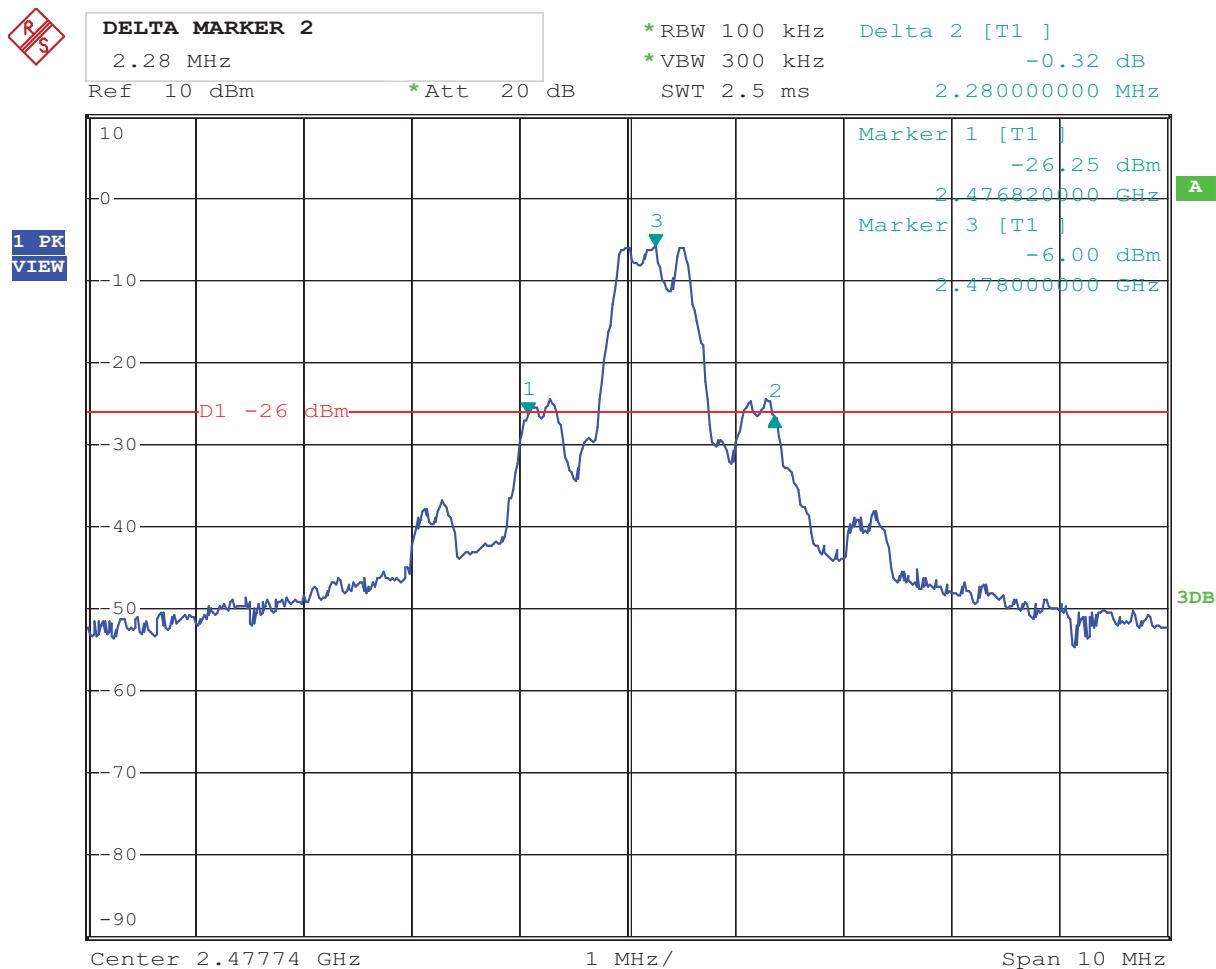
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9.2 20dB Bandwidth Measurement

Product:	HiDow Wireless Tens/EMC System	Test Mode:	High Channel- keep transmitting
Mode	Keeping Transmitting	Test Voltage	DC3.7V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	2280kHz	--	--



Date: 13.MAY.2014 18:24:47

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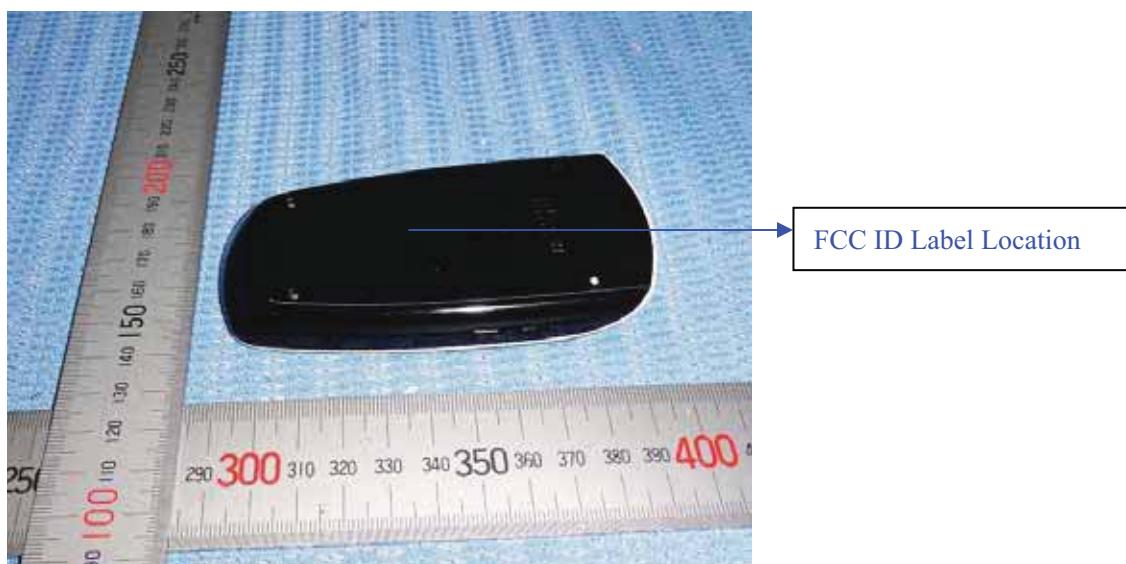
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10.0 FCC ID Label

FCC ID: 2ACD4HD-5N-TX

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:



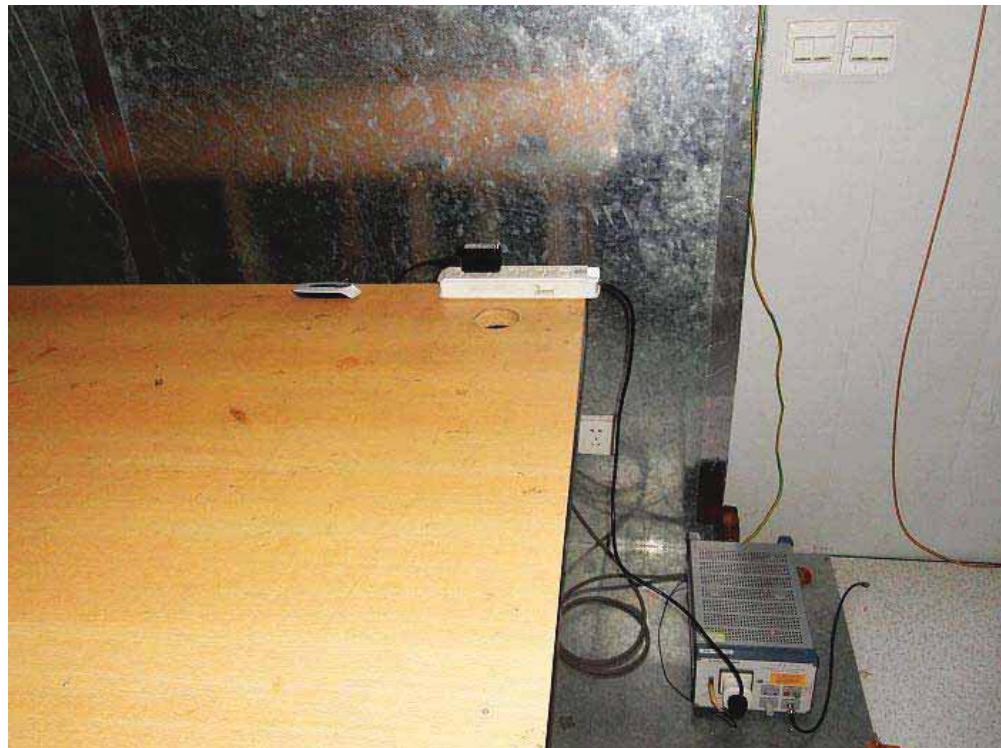
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11.0 Photo of testing

11.1 Conducted test View--



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11.2 Radiated emission test view



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11.3 Photographs - EUT

Outside View

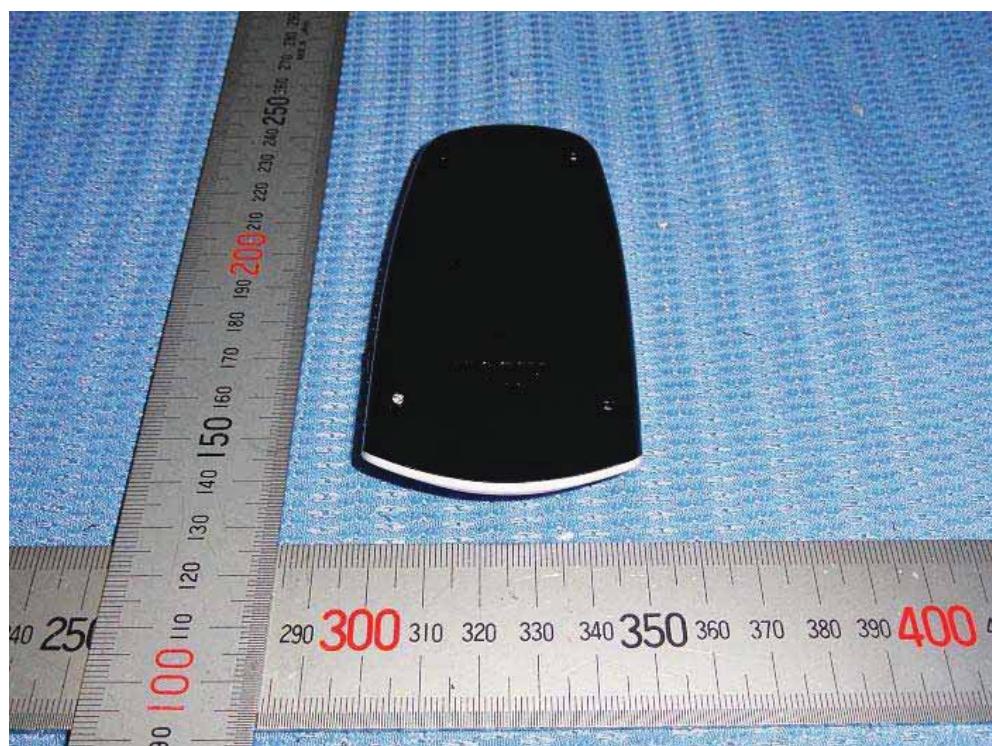


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Outside View



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Different Appearance

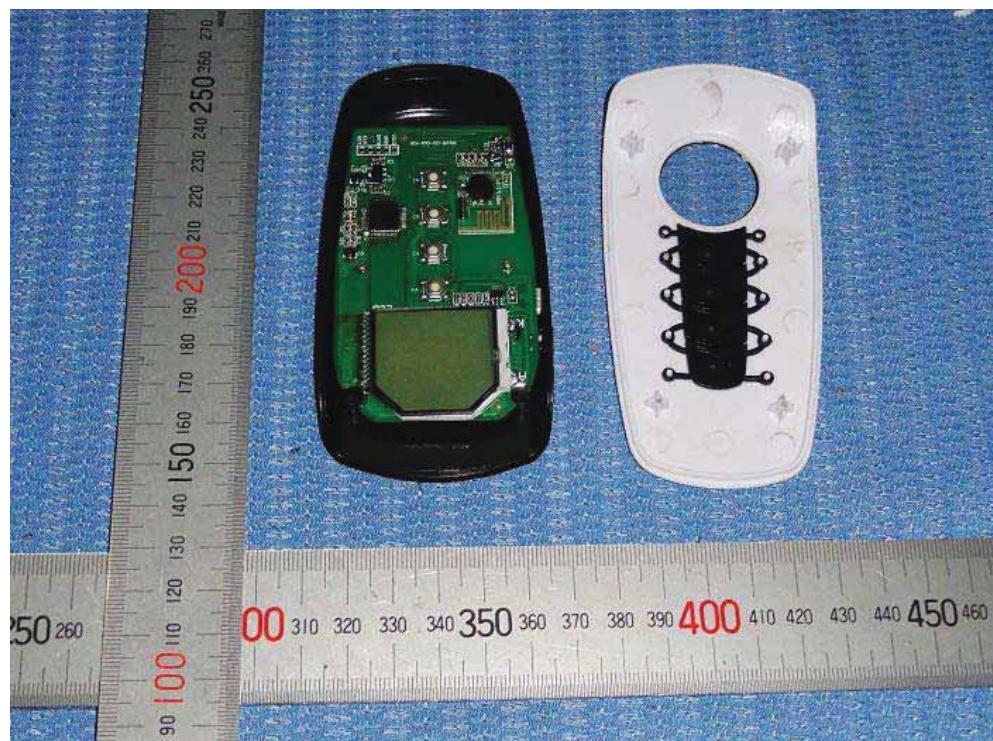


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Interior View

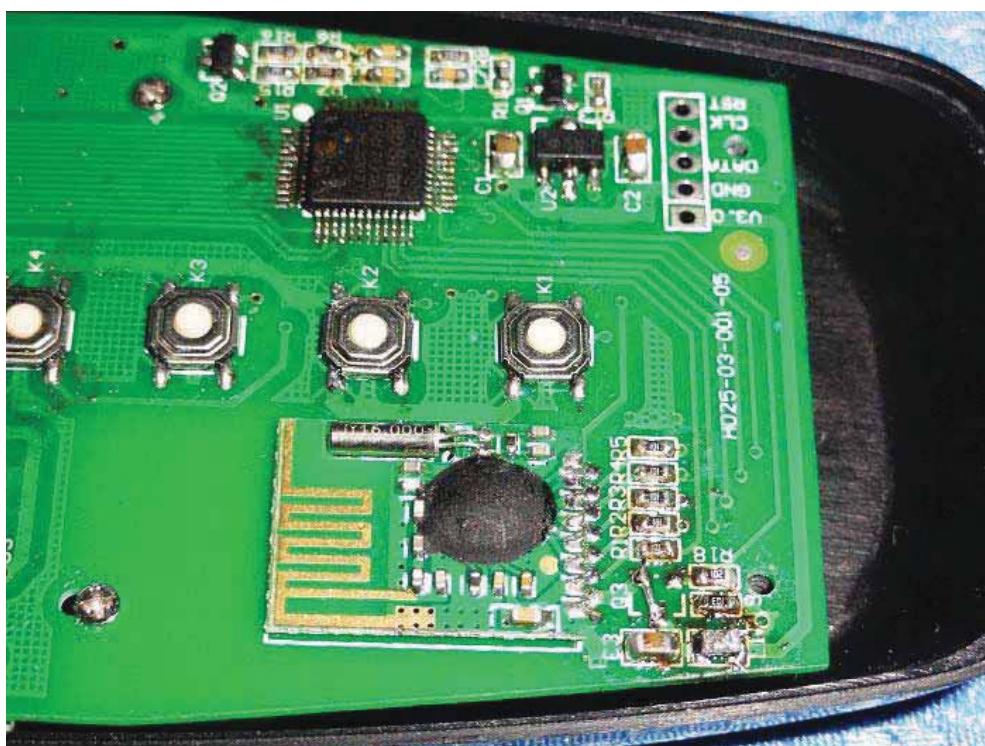
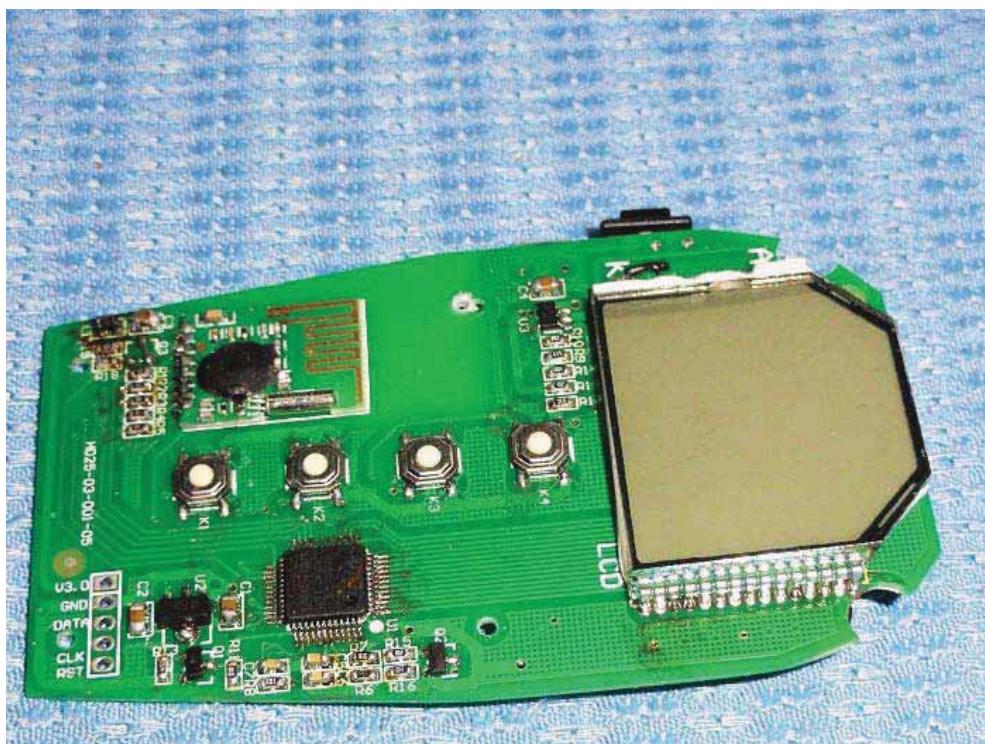


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Interior View

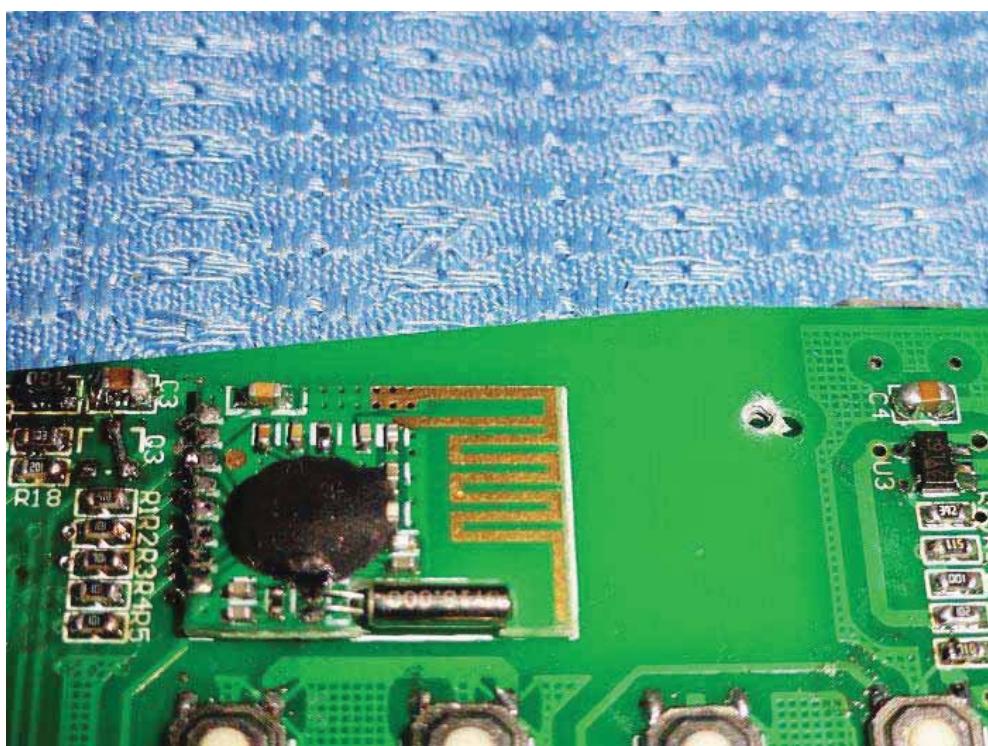
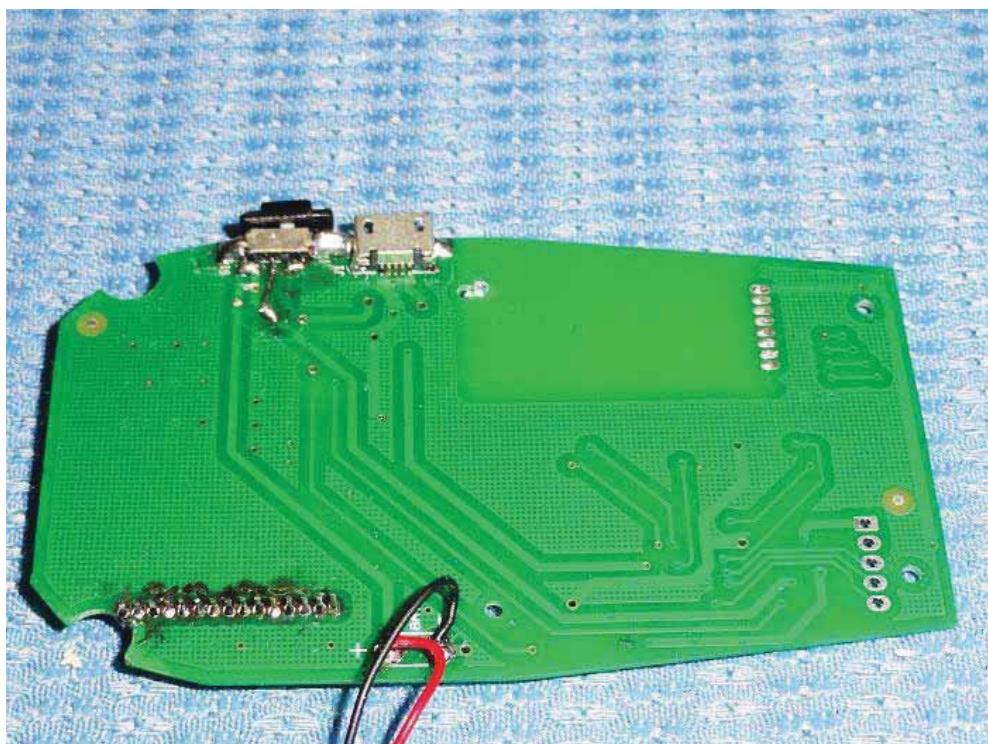


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Interior View



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Interior View



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