



卓時檢測
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No: FCC 1105191
File reference No: 2011-06-05

Applicant: Kai Yu, Shantou, Guangdong Toy Industry Co., Ltd.

Product: 2.4GHZ Three-channel remote control plane

Model No: 2G407

Brand Name: yinglongmoxing

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: June 05, 2010

**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-01

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

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Test Report Conclusion

Content

1.0	General Details	4
1.1	Test Lab Details	4
1.2	Applicant Details	4
1.3	Description of EUT	4
1.4	Submitted Sample	4
1.5	Test Duration	4
1.6	Test Uncertainty	5
1.7	Test By	5
2.0	List of Measurement Equipment	5
3.0	Technical Details	6
3.1	Summary of Test Results	6
3.2	Test Standards	6
4.0	EUT Modification	6
5.0	Power Line Conducted Emission Test	7
5.1	Schematics of the Test	7
5.2	Test Method and Test Procedure	7
5.3	Configuration of the EUT	7
5.4	EUT Operating Condition	8
5.5	Conducted Emission Limit	8
5.6	Test Result	8
6.0	Radiated Emission test	10
6.1	Test Method and Test Procedure	10
6.2	Configuration of the EUT	11
6.3	EUT Operation Condition	11
6.4	Radiated Emission Limit	11
6.5	Test Result	13
7.0	Band Edge	23
7.1	Test Method and Test Procedure	23
7.2	Radiated Test Setup	23
7.3	Configuration of the EUT	23
7.4	EUT Operating Condition	23
7.5	Band Edge Limit	23
7.6	Band Edge Test Result	24
8.0	Antenna Requirement	26
9.0	20dB bandwidth measurement	27
10.0	FCC ID Label	30
11.0	Photo of Test Setup and EUT View	31

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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 States

Registration Number: 899988

For 3m & 10 m OATS

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A-01

For 3m & 10 m OATS

1.2 Applicant Details

Applicant: Kai Yu, Shantou, Guangdong Toy Industry Co., Ltd.
Address: Chenghai District, Shantou City, Guangdong Province, Zhongshan North Road, No. 82
Telephone: +86-754-85637369
Fax: +86-754-85633327

1.3 Description of EUT

Product:	2.4GHZ Three-channel remote control plane
Manufacturer:	Kai Yu, Shantou, Guangdong Toy Industry Co., Ltd.
Brand Name:	yinglongmoxing
Model Number:	2G407
Additional Model Name	N/A
Additional Trade Name	N/A
Rating:	DC 9.0V (6pcs AA batteries)
Modulation Type:	GFSK
Operation Frequency	2402-2478MHz
Antenna Designation	only one PCB Print antenna and the maximum gain is 2.5dBi.

1.4 Submitted Sample

1 Sample

1.5 Test Duration

2011-05-25 to 2011-06-05

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1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions Uncertainty =4.7dB

1.7 Test Engineer

Terry Tang

The sample tested by _____

Print Name: Terry Tang

Test Equipments					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	ROHDE&SCHWARZ	ESPI 3	100379	2011-04-26	2012-04-25
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100294	2011-04-26	2012-04-25
TWO Line-V-NETW	ROHDE&SCHWARZ	EZH3-Z5	100253	2011-04-26	2012-04-25
Ultra Broadband ANT	ROHDE&SCHWARZ	HL562	100157	2011-04-26	2012-04-25
ESDV Test Receiver	ROHDE&SCHWARZ	ESDV	100008	2011-04-26	2012-04-25
Impuls-Begrenzer	ROHDE&SCHWARZ	ESH3-Z2	100281	2011-04-26	2012-04-25
System Controller	CT	SC100	-	2011-04-26	2012-04-25
Printer	EPSON	PHOTO EX3	CFNH234850	2011-04-26	2012-04-25
Bilog Antenna	Chase	CBL6111C	2576	2011-04-26	2012-04-25
Loop Antenna	EMCO	6502	00042960	2011-04-26	2012-04-25
ESPI Test Receiver	ROHDE&SCHWARZ	ESI26	838786/013	2011-04-26	2012-04-25
3m OATS	--	--	N/A	2011-04-26	2012-04-25
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170265	2011-04-26	2012-04-25
Horn Antenna	SCHWARZBECK	BBHA 9120D	9120D-631	2011-04-26	2012-04-25
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2011-04-26	2012-04-25
9*6*6 Anechoic	--	--	N/A	2011-04-26	2012-04-25
EMI Test Receiver	RS	ESCS30	100139	2011-04-26	2012-04-25
LISN	AFJ	LS16C	10010947251	2011-04-26	2012-04-25
LISN (Three Phase)	Schwarebeck	NSLK 8126	8126453	2011-04-26	2012-04-25

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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	Not 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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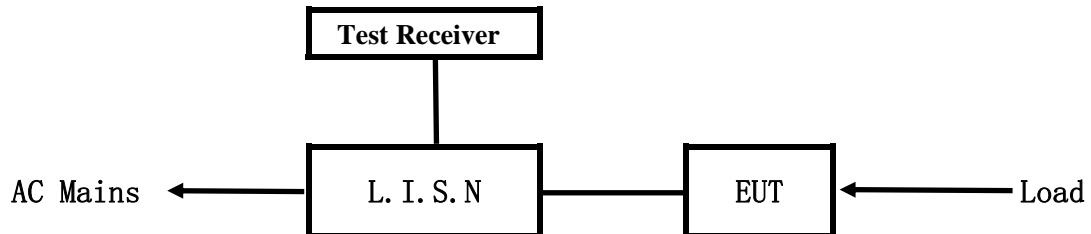
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5. Power Line Conducted Emission Test

5.1 Schematics of the test



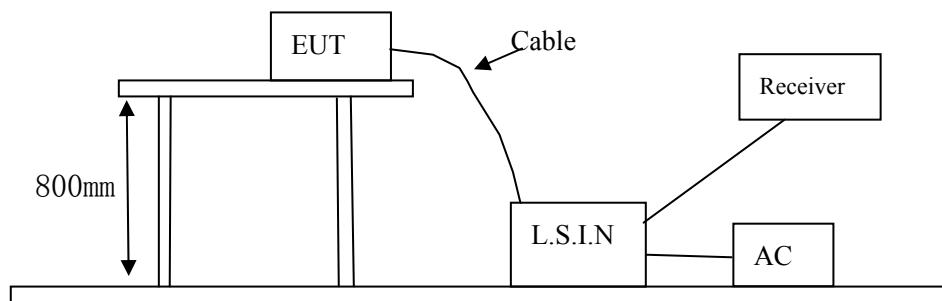
EUT: Equipment Under Test

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.

Test Voltage: 120V~, 60Hz

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
2.4GHZ Three-channel remote control plane	Kai Yu, Shantou, Guangdong Toy Industry Co., Ltd.	2G407	ZOG201178

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 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: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Normal operation mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

Frequency (MHz)	Line	Reading(dB μ V)		Limit(dB μ V)	
		Quasi-peak	Average	Quasi-peak	Average

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

EUT Operating Environment

Temperature: 25°C Humidity: 75%RH Atmospheric Pressure: 101 KPa

EUT set Condition: Normal operation mode

Equipment Level: Class B

Results: Pass

Please refer to following diagram for individual

Frequency (MHz)	Line	Reading(dB μ V)		Limit(dB μ V)	
		Quasi-peak	Average	Quasi-peak	Average

Note: Due to DC Operation, this test item not applicable

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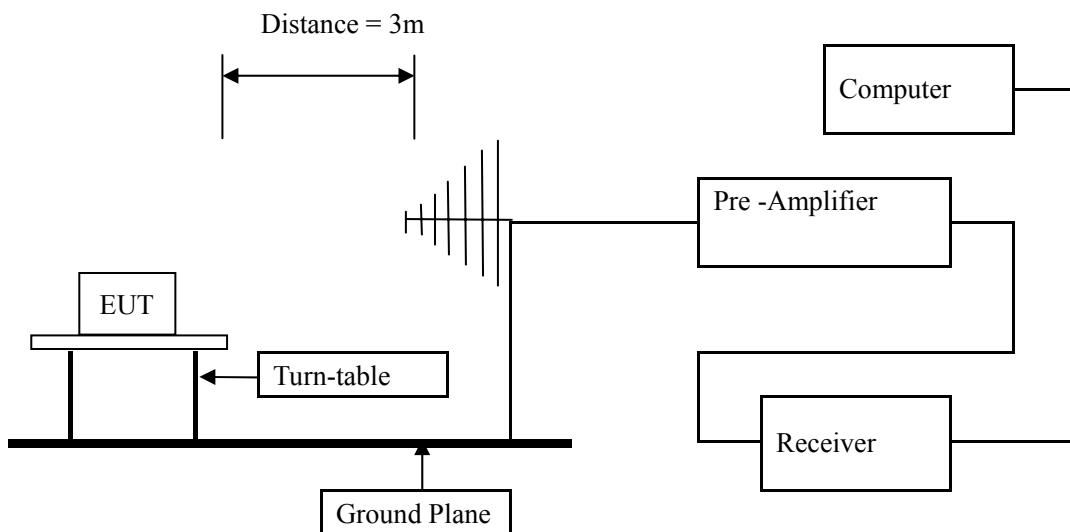


6 Radiated Emission Test

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



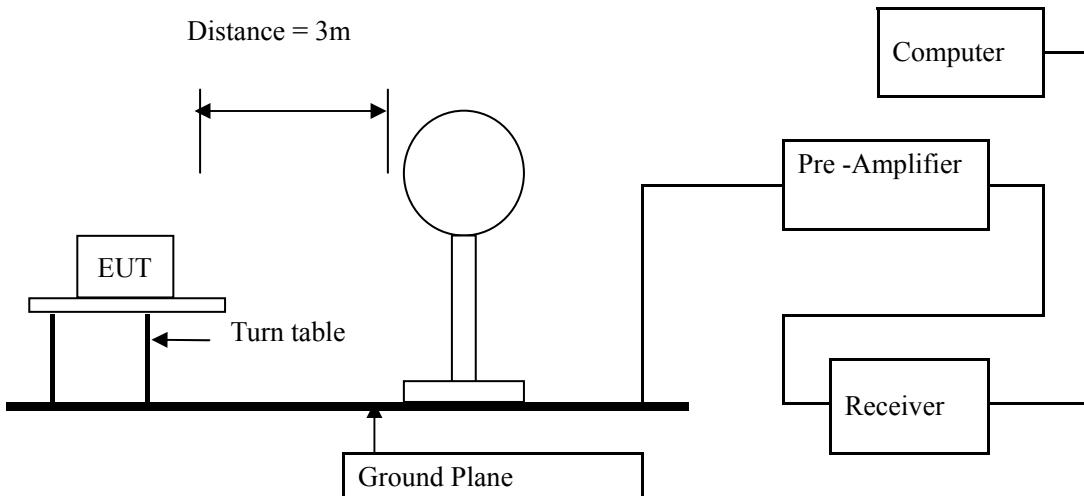
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Block diagram of Test setup for frequency below 30MHz



Configuration of The EUT

Same as section 5.3 of this report

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)	
	mV/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) = $20 \log_{10} \text{RF Voltage (uV)}$

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 μ V/m)
0.009-0.490	3	$20 \log_{10} 2400/F$ (kHz) + 80
0.490-1.705	3	$20 \log_{10} 24000/F$ (kHz) + 40
1.705-30	3	$20 \log_{10} 30 + 40$
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note: 1. RF Voltage (dBuV) = $20 \log_{10} \text{RF Voltage (uV)}$

2. In the Above Table, the tighter limit applies at the band edges.

3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT

4. This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Side, and Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

5. All scanning using PK detector. And the final emission level was get using QP detector for frequency range from 30-1000MHz. As to 1G-25G, the final emission level got using PK and AV detector.

6. If measurement is made at 3m distance, then F.S Limitation at 3m distance is adjusted by using the formula $Ld1 = Ld2 * (d2/d1)$

7. New batteries were used during the tests. No emission found at 18-25GHz.

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6.5 Test result

A Fundamental & Harmonics Radiated Emission Data

Product:	2.4GHZ Three-channel remote control plane	Test Mode:	Low Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	9.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2402	73.18 (PK)	V	114/94	-20.89
2402	75.20 (PK)	H	114/94	-18.80
4804	37.55 (PK)	H	74/54	-16.45
4804	--	V	74/54	--
7206	--	H	74/54	--
7206	--	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:	2.4GHZ Three-channel remote control plane	Test Mode:	Middle Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	9.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2440	77.29 (PK)	V	114/94	-16.71
2440	77.73 (PK)	H	114/94	-16.27
4880	--	V	74/54	--
4880	--	H	74/54	--
7320	--	V	74/54	--
7320	--	H	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:	2.4GHZ Three-channel remote control plane	Test Mode:	High Channel
Test Item:	Fundamental Radiated Emission Data	Temperature:	25°C
Test Voltage:	9.0VDC	Humidity:	56%
Test Result:	Pass		

Frequency (MHz)	Emission PK/AV (dBuV/m)	Horiz / Vert	Limits PK/AV (dBuV/m)	Margin (dB)
2478	78.14(PK)	V	114/94	-15.86
2478	75.00(PK)	H	114/94	-19.00
4956	37.10(PK)	V	74/54	-16.90
4956	41.42(PK)	H	74/54	-12.58
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 + 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

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A. General Radiated Emission Data

Low Channel

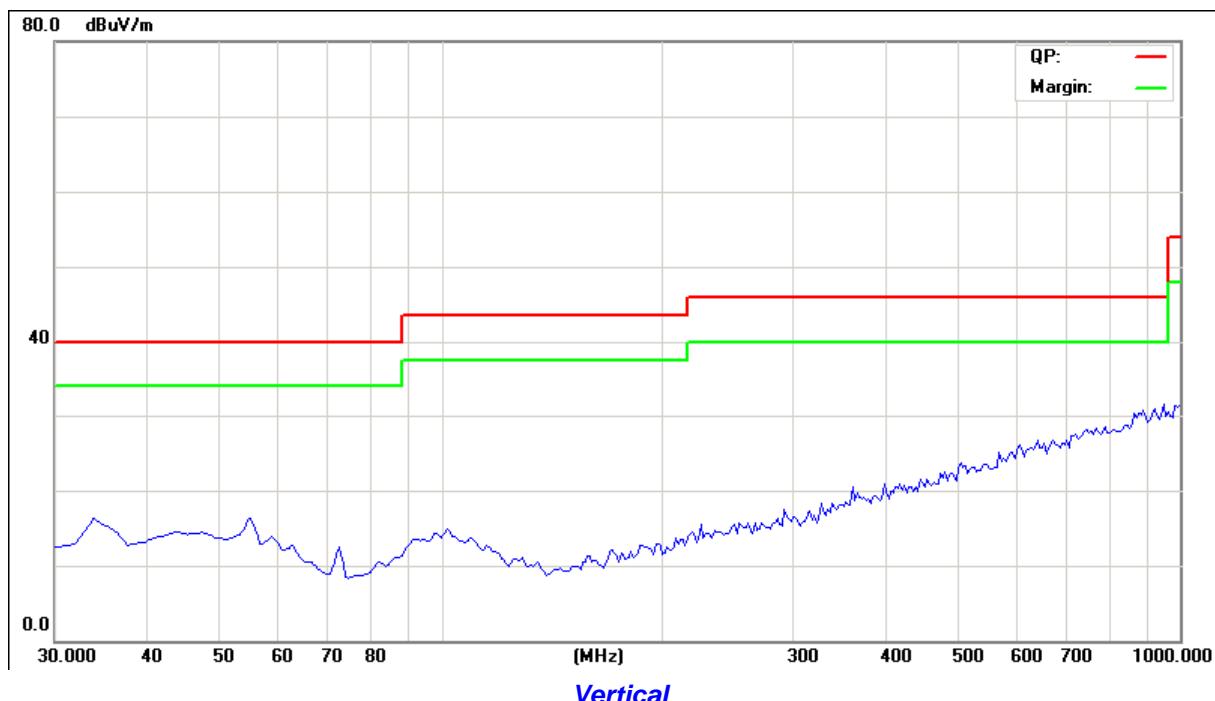
Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep transmitting

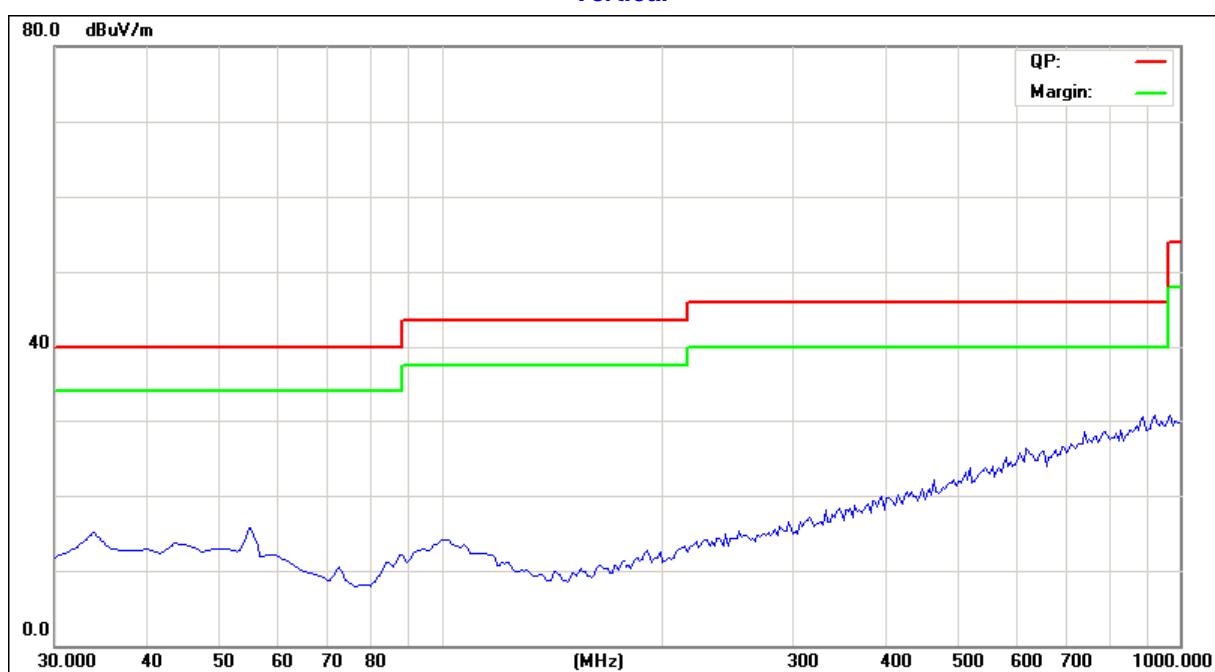
Mode: Normal work

Results: Pass

Horizontal



Vertical



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B. General Radiated Emission Data

Middle Channel

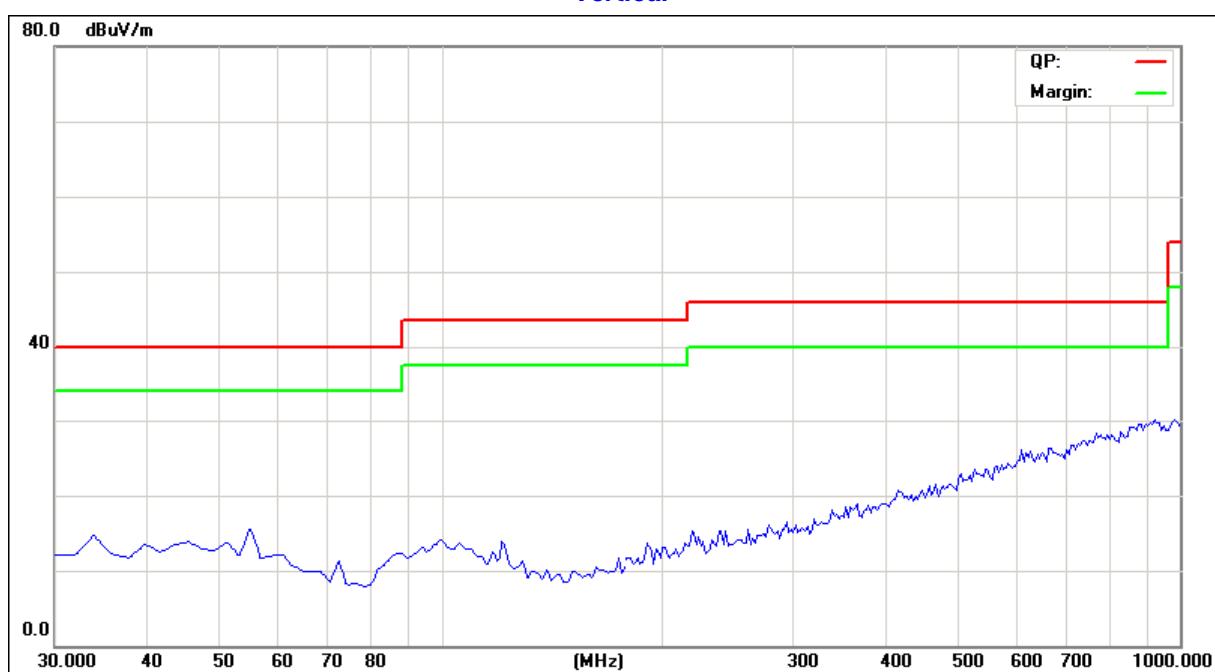
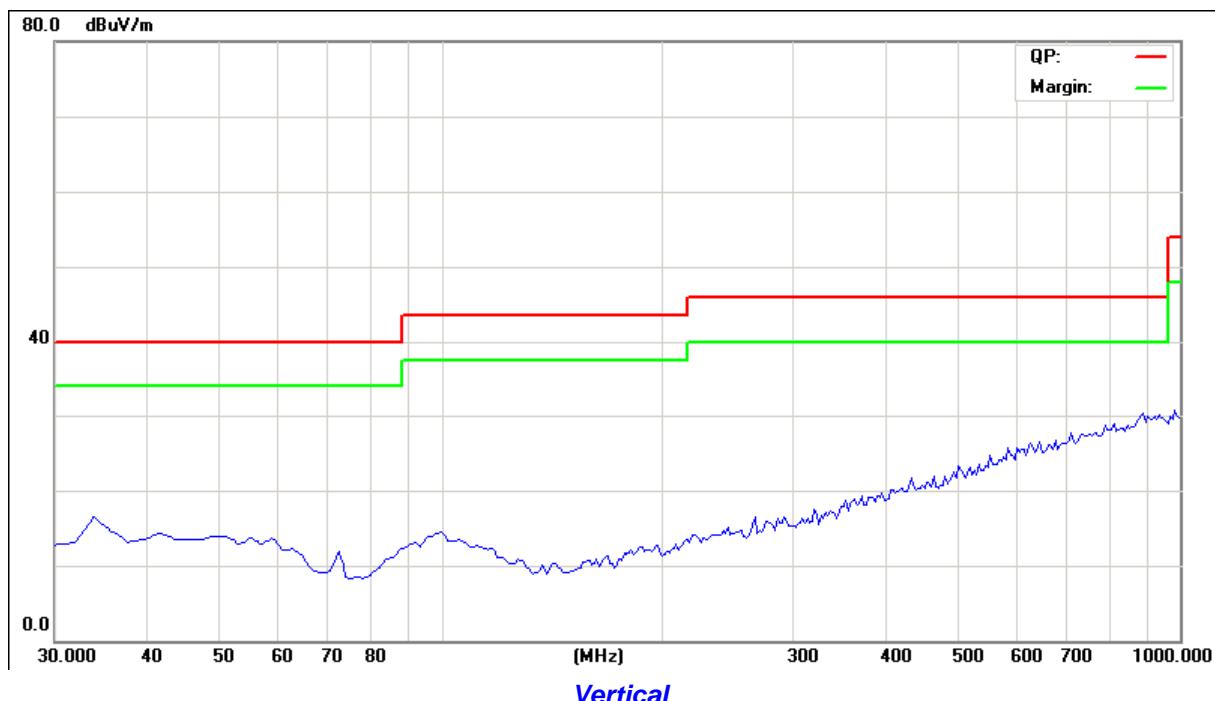
Radiated Emission In Horizontal (30MHz---1000MHz)

EUT set Condition: Keep transmitting

Mode: Normal work

Results: Pass

Horizontal



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C. General Radiated Emission Data

High Channel

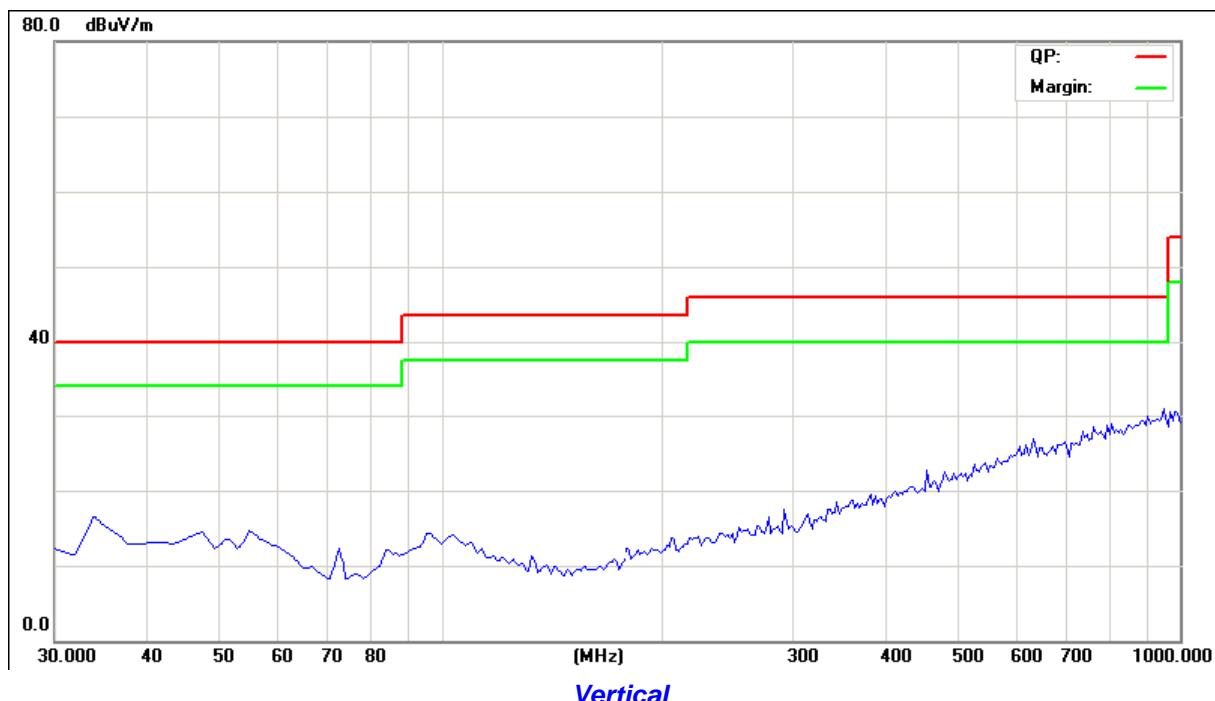
Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep transmitting

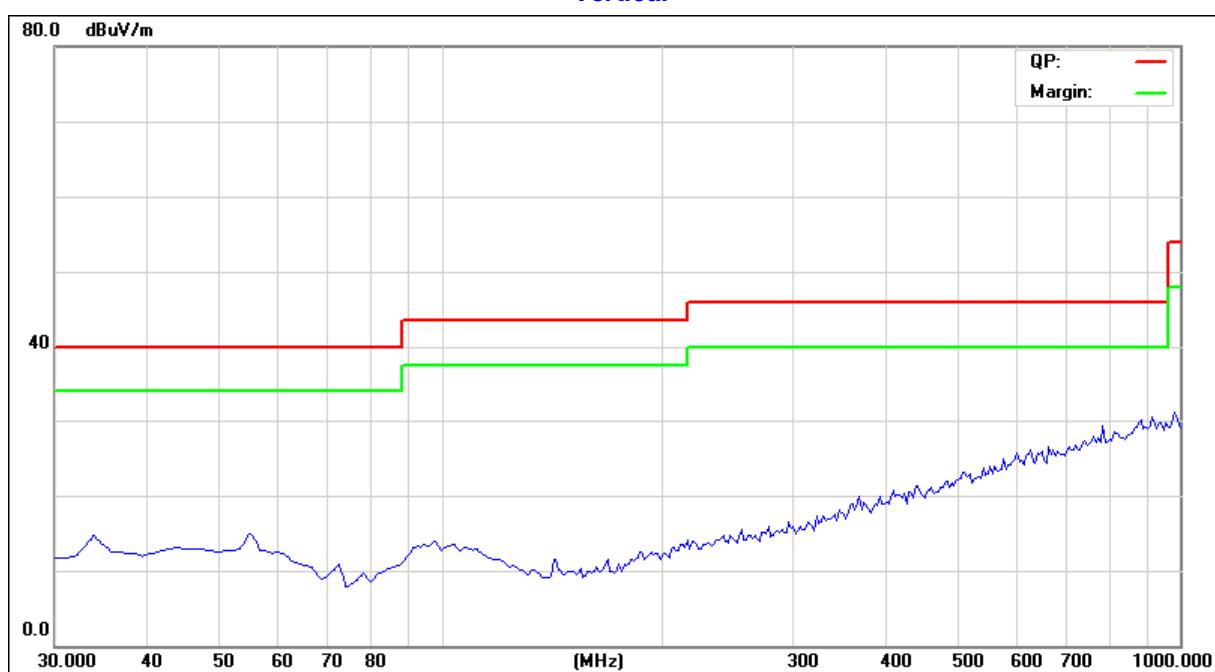
Mode: Normal work

Results: Pass

Horizontal



Vertical



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D. General Radiated Emission Data

Low Channel

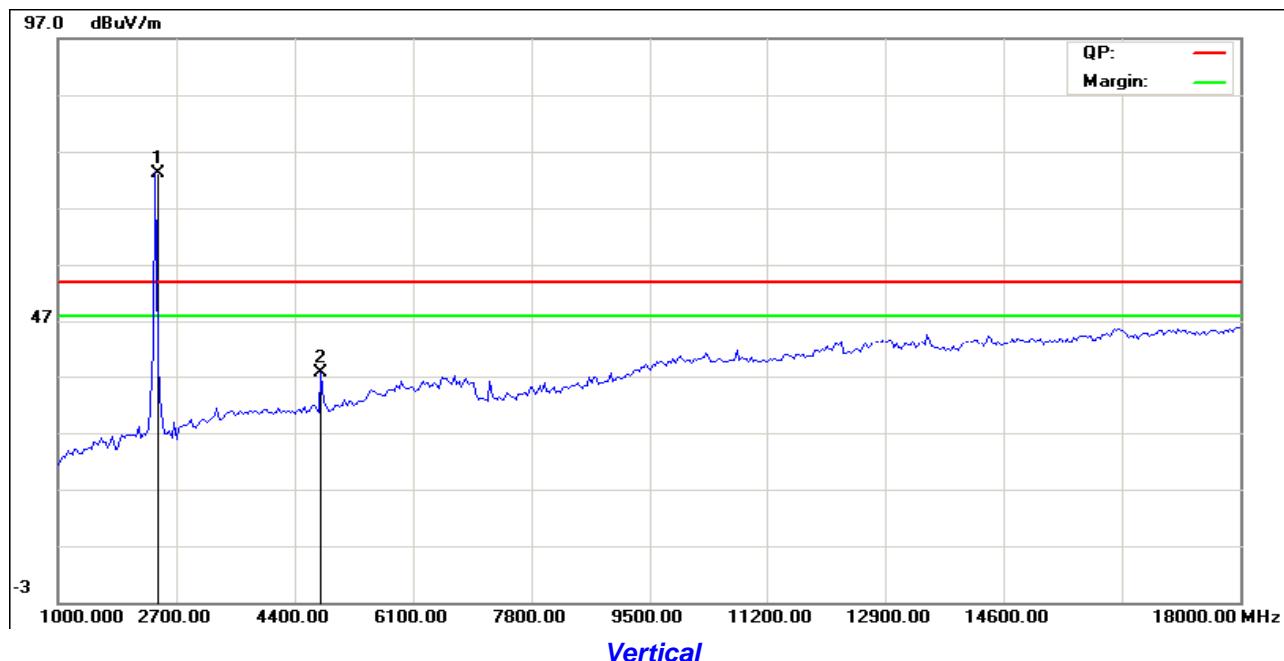
Radiated Emission In Horizontal (1000MHz---18000MHz)

EUT set Condition: Keep transmitting

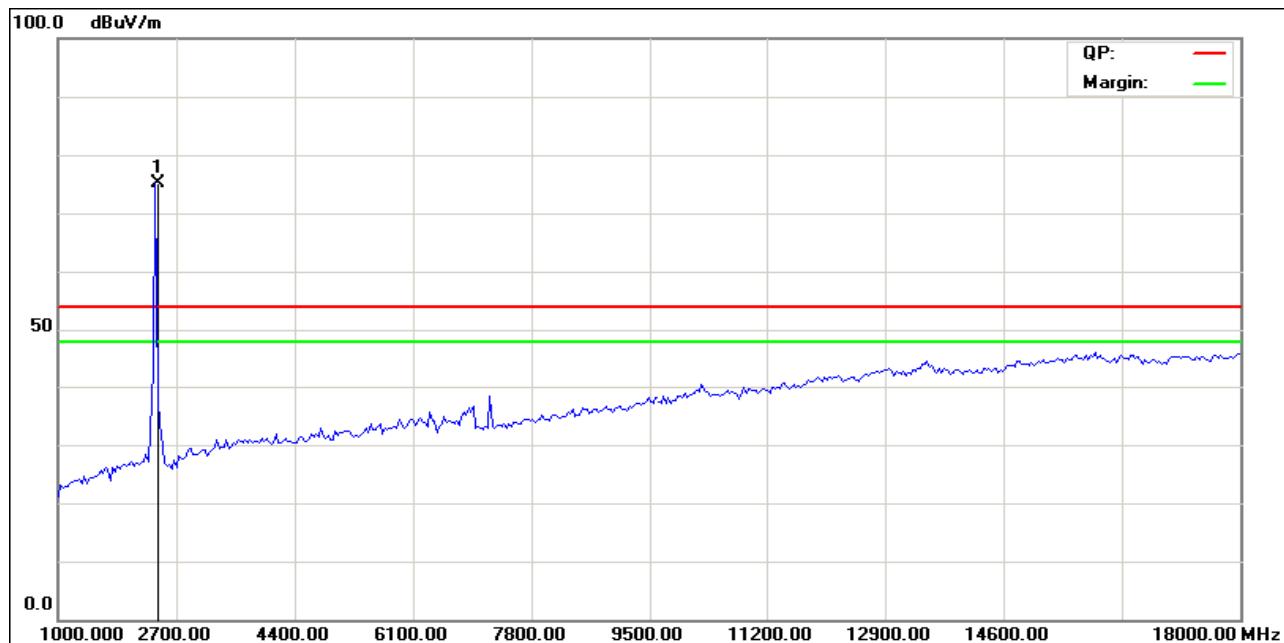
Mode: Normal work

Results: Pass

Horizontal



Vertical



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E. General Radiated Emission Data

Middle Channel

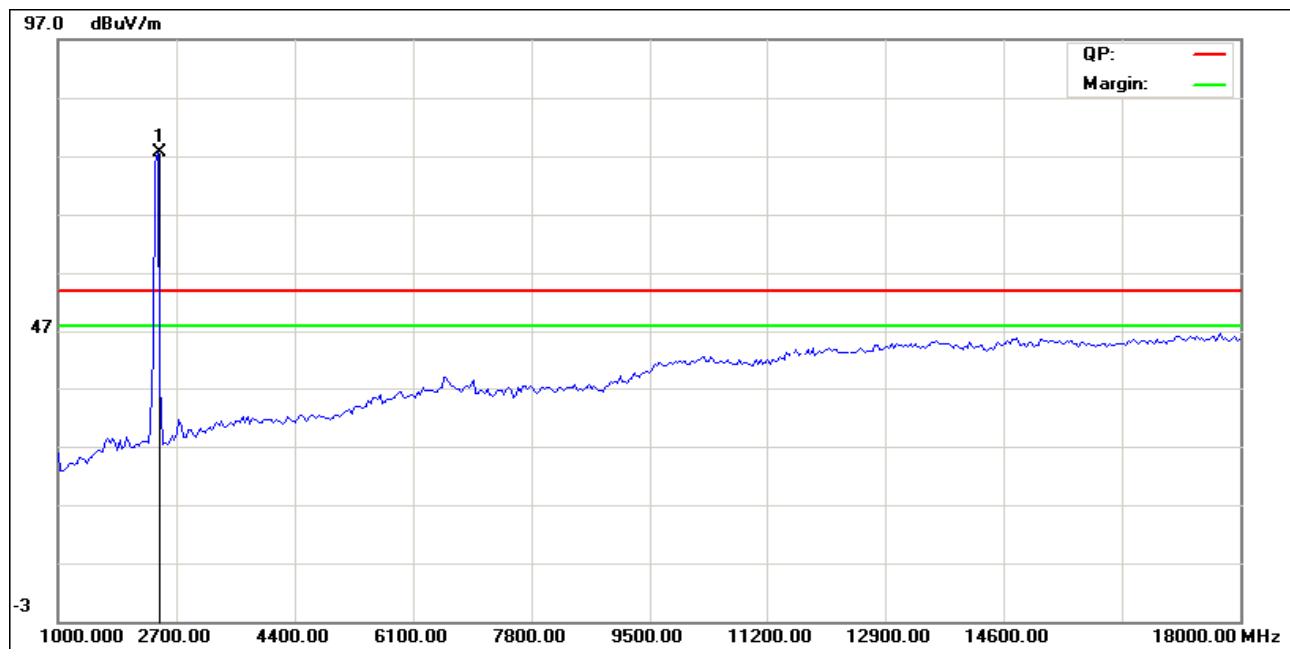
Radiated Emission In Horizontal (1000MHz---18000MHz)

EUT set Condition: Keep transmitting

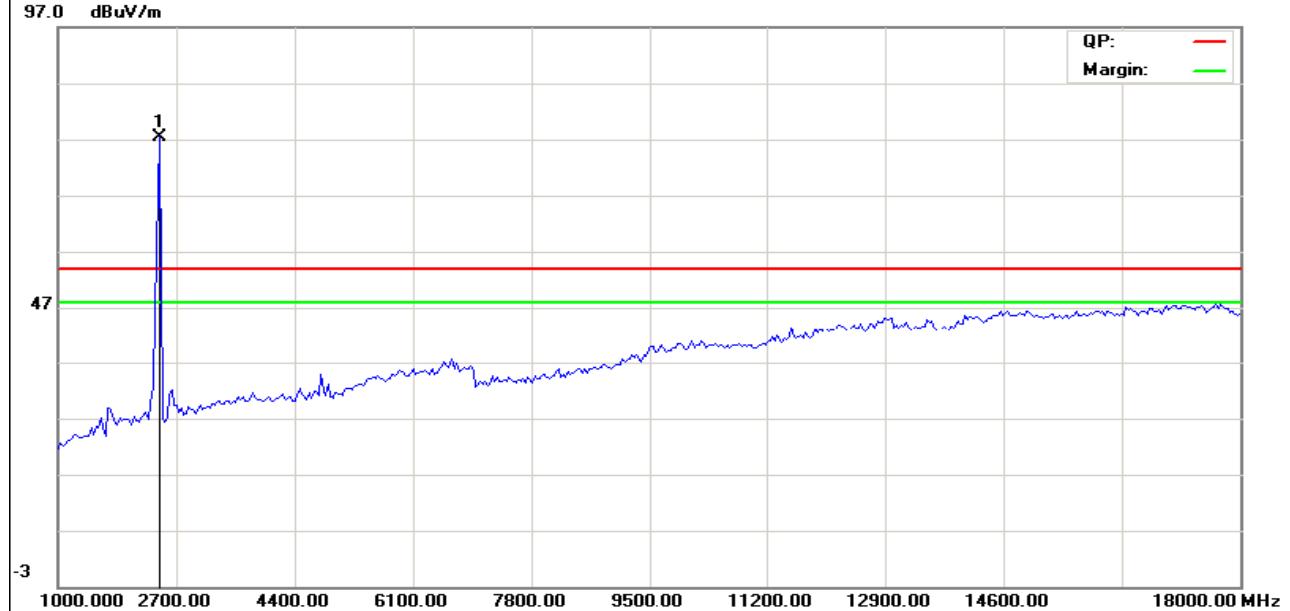
Mode: Normal work

Results: Pass

Horizontal



Vertical



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F. General Radiated Emission Data

High Channel

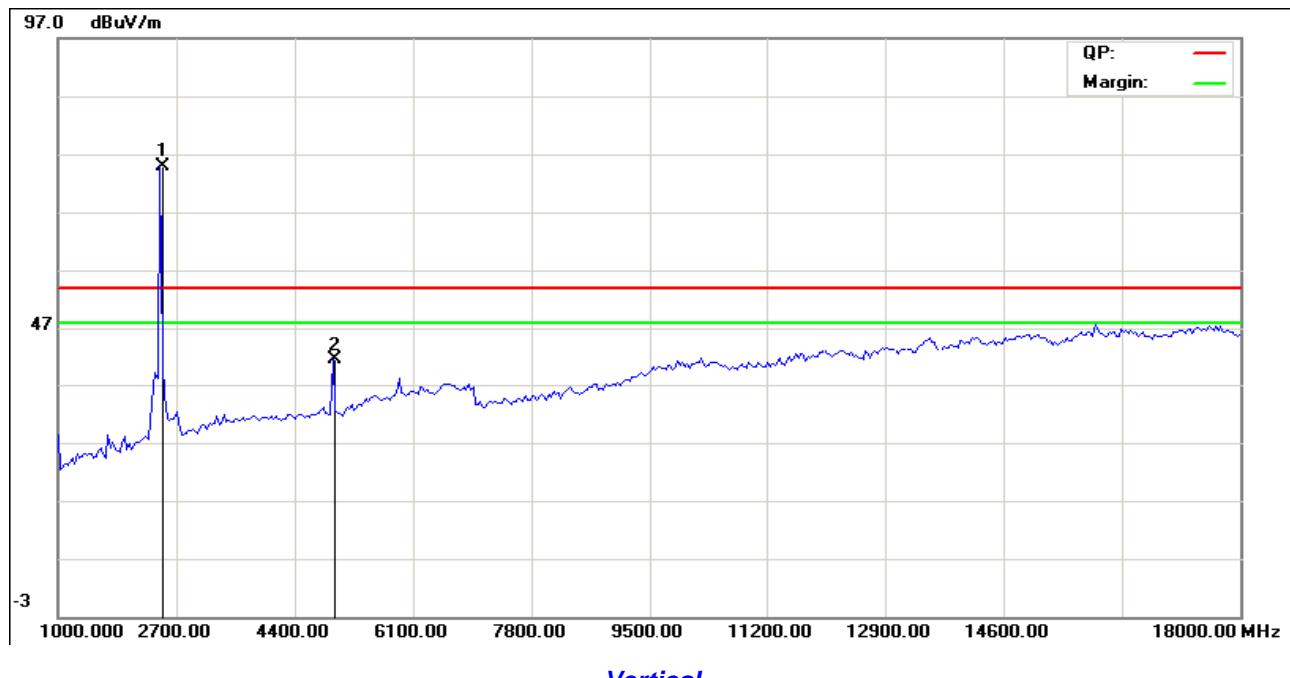
Radiated Emission In Horizontal (1000MHz---18000MHz)

EUT set Condition: Keep transmitting

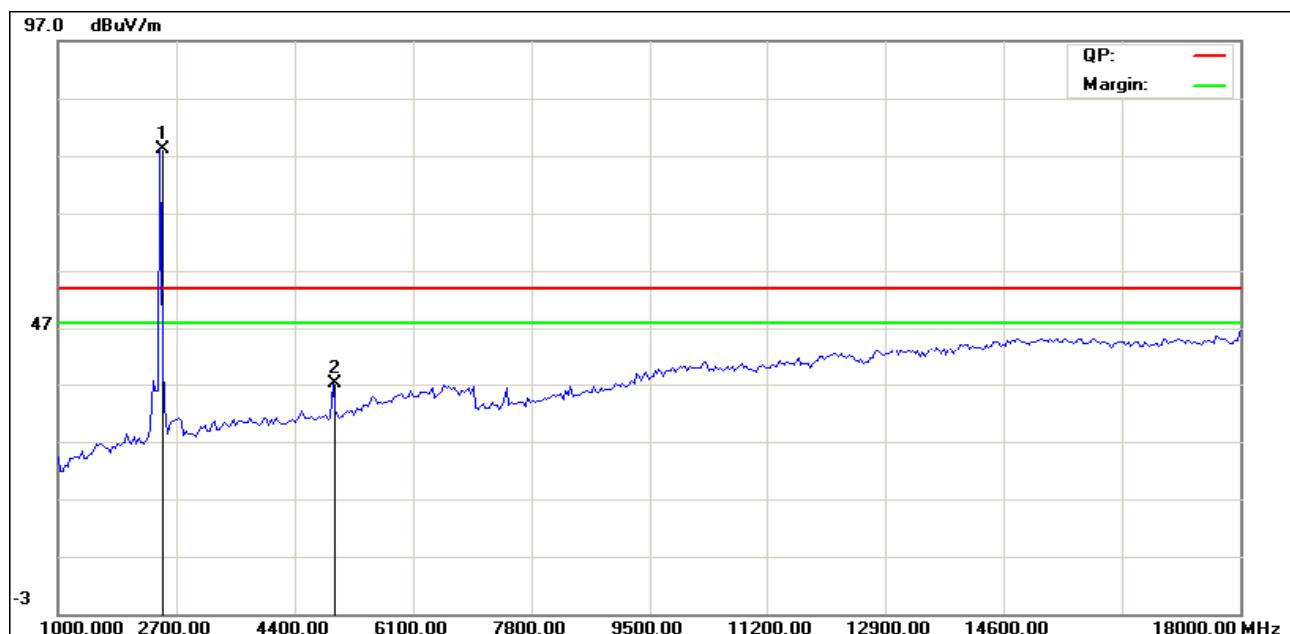
Mode: Normal work

Results: Pass

Horizontal



Vertical



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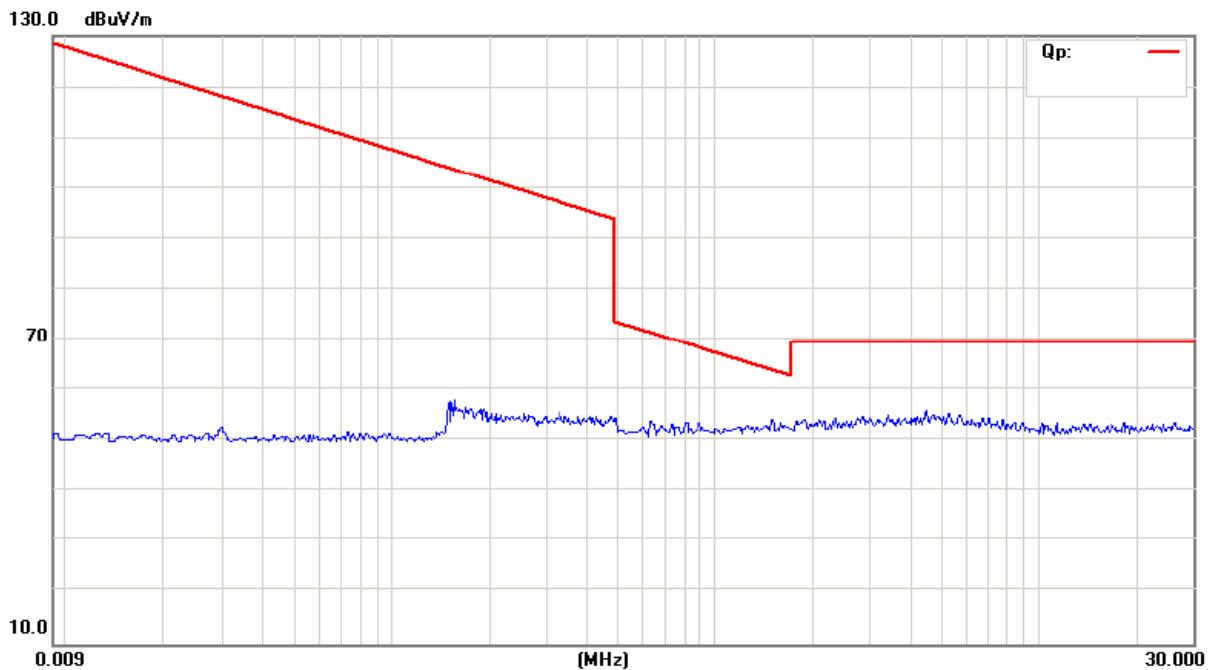


Radiated Emission from 0.009MHz-30MHz

EUT set Condition: Keep transmitting

Results: Pass

Please refer to following diagram for individual



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

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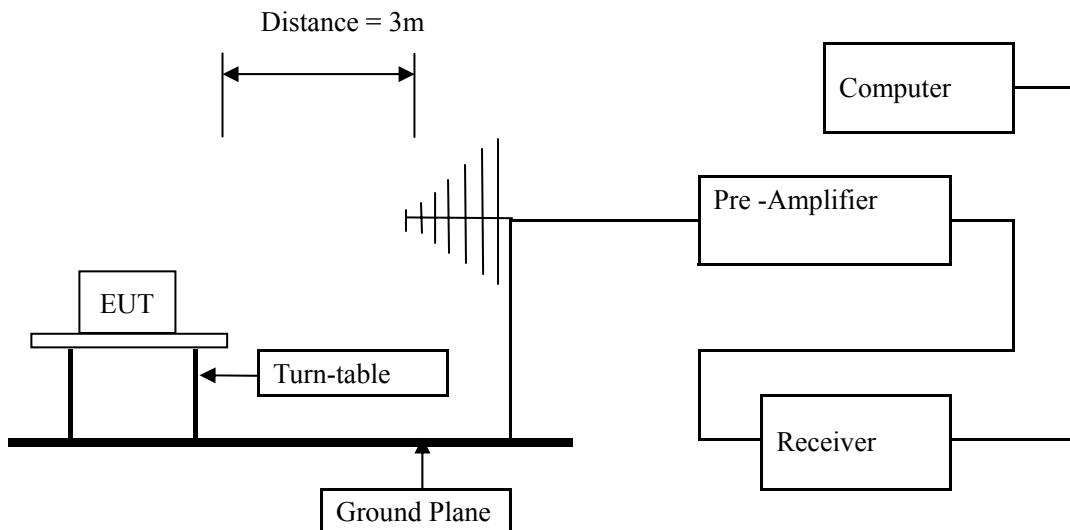


7. Band Edge

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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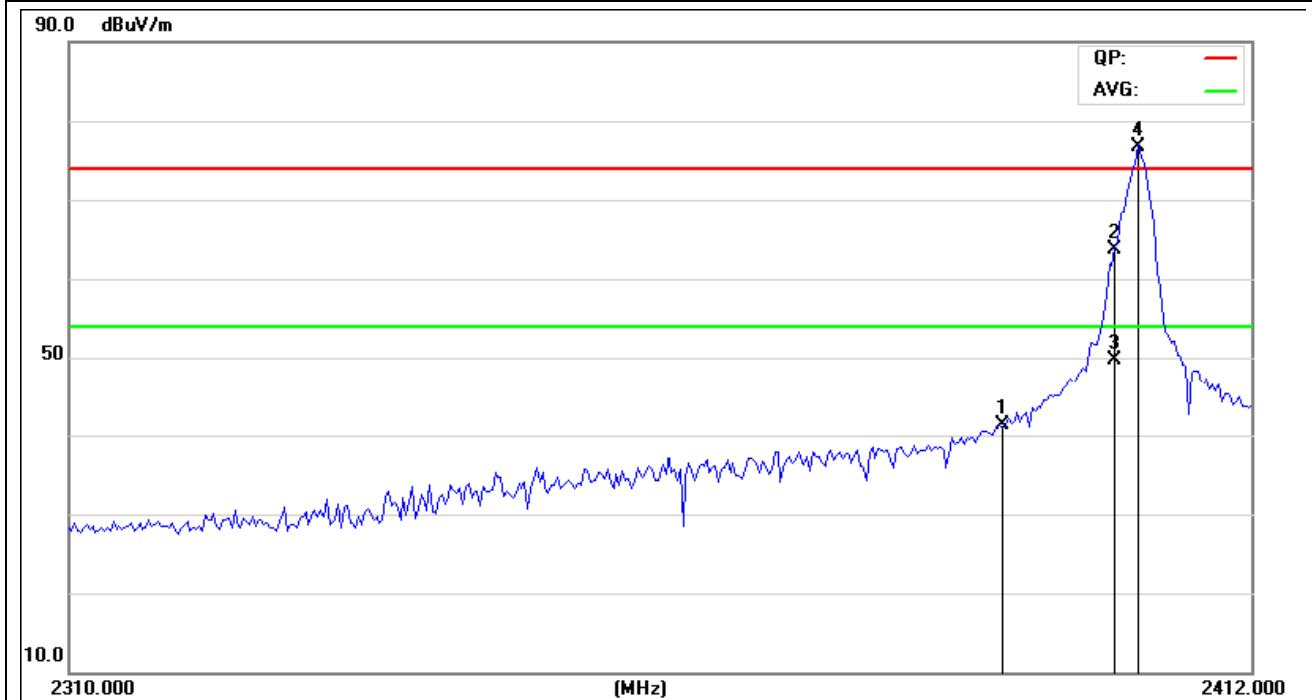
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7.6 Test Result

Product:	2.4GHZ Three-channel remote comtrol plane		Test Mode:	Low Channel (2402MHz)
Mode	Keeping Transmitting		Test Voltage	DC9.0V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
2400MHz	PK (dB μ V/m)	63.68	Limit	74(dB μ V/m)
	AV(dB μ V/m)	49.65		54(dB μ V/m)
2390 MHz	PK (dB μ V/m)	41.26	Limit	74(dB μ V/m)
	AV(dB μ V/m)	--		54(dB μ V/m)



Note:

1. Field Strength in restrict band measured in conventional manner
2. Emission Level = Reading Level + Probe Factor + Cable Loss.
3. Tests were conducted on vertical and horizontal polarity. The plot shown above was for Vertical polarity, and it was the worse case

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Product:	2.4GHZ Three-channel remote comtrol plane		Test Mode:	High Channel (2478MHz)
Mode	Keeping Transmitting		Test Voltage	DC9.0V
Temperature	24 deg. C		Humidity	56% RH
Test Result:	Pass		Detector	PK
2483.500MHz	PK (dB μ V/m)	61.25	Limit	74(dB μ V/m)
	AV(dB μ V/m)	48.92		54(dB μ V/m)

90.0 dB μ V/m

QP: —
 AVG: —

10.0 50 90.0

2478.000 2500.000 [MHz]

Note:

1. Field Strength in restrict band measured in conventional manner
2. Emission Level = Reading Level + Probe Factor + Cable Loss.
3. Tests were conducted on vertical and horizontal polarity. The plot shown above was for Vertical polarity, and it was the worse case

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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.

The maximum Gain of the antennas is 2.5dBi.

Test Result: Pass

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9.0 20dB Bandwidth Measurement

Product:	2.4GHZ Three-channel remote comtrol plane	Test Mode:	Low Channel (2402MHz)
Mode	Keeping Transmitting	Test Voltage	DC9.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	463KHz	RBW/VBW	100kHz/100kHz

90.0 dB μ V/m



Frequency (MHz)	Level@3m (dB μ V/m)
2401.331	56.31
2402.012	77.73
2402.794	56.31

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9.1 20dB Bandwidth Measurement

Product:	2.4GHZ Three-channel remote comtrol plane	Test Mode:	Middle Channel (2440MHz)
Mode	Keeping Transmitting	Test Voltage	DC9.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	457KHz	RBW/VBW	100kHz/100kHz

80.0 dB μ V/m

Frequency (MHz)	Level@3m (dB μ V/m)
2439.780	49.55
2440.030	69.31
2440.237	49.55

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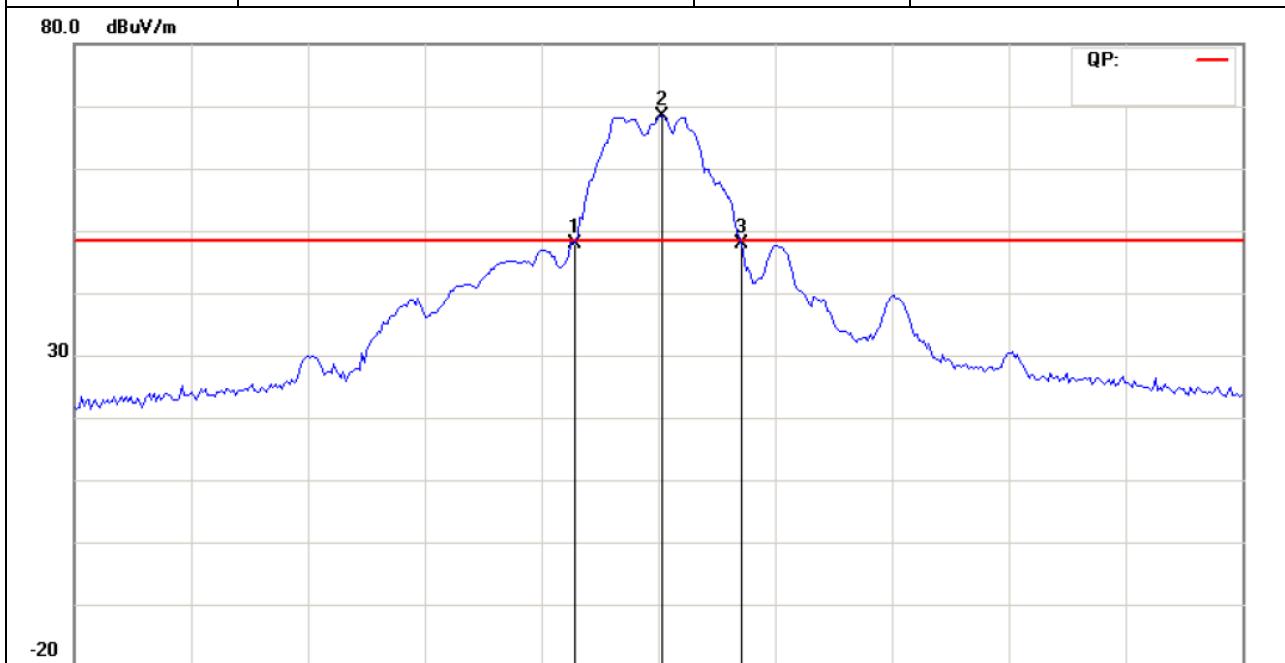
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9.2 20dB Bandwidth Measurement

Product:	2.4GHZ Three-channel remote comtrol plane	Test Mode:	High Channel (2478MHz)
Mode	Keeping Transmitting	Test Voltage	DC9.0V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK
20dB Bandwidth	488KHz	RBW/VBW	100kHz/100kHz



Frequency (MHz)	Level@3m (dB μ V/m)
2477.729	47.84
2478.030	68.40
2478.217	47.84

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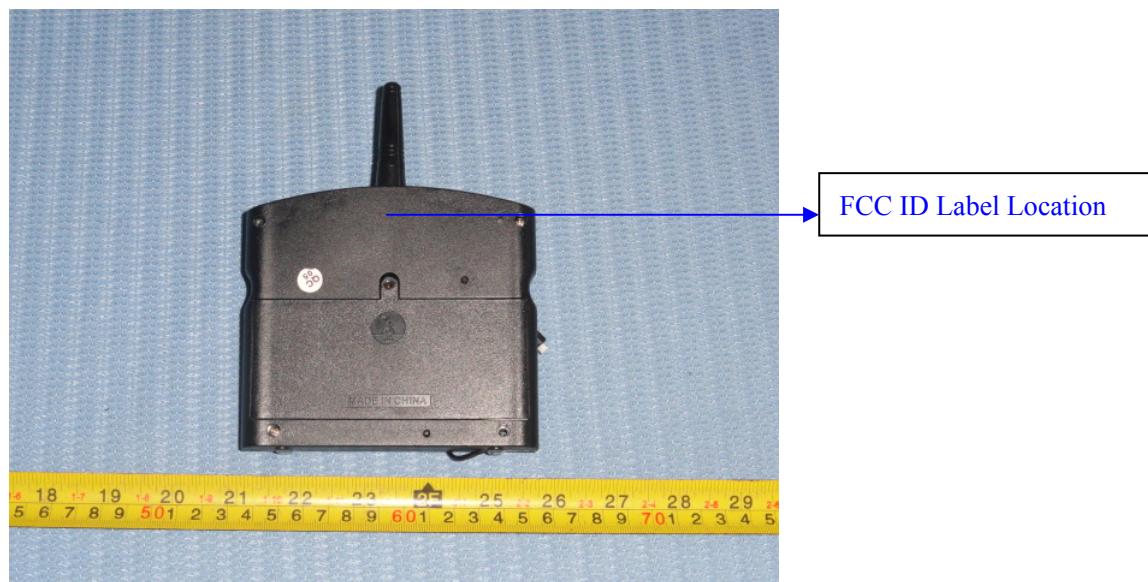
10.0 FCC ID Label

FCC ID: ZOG201178

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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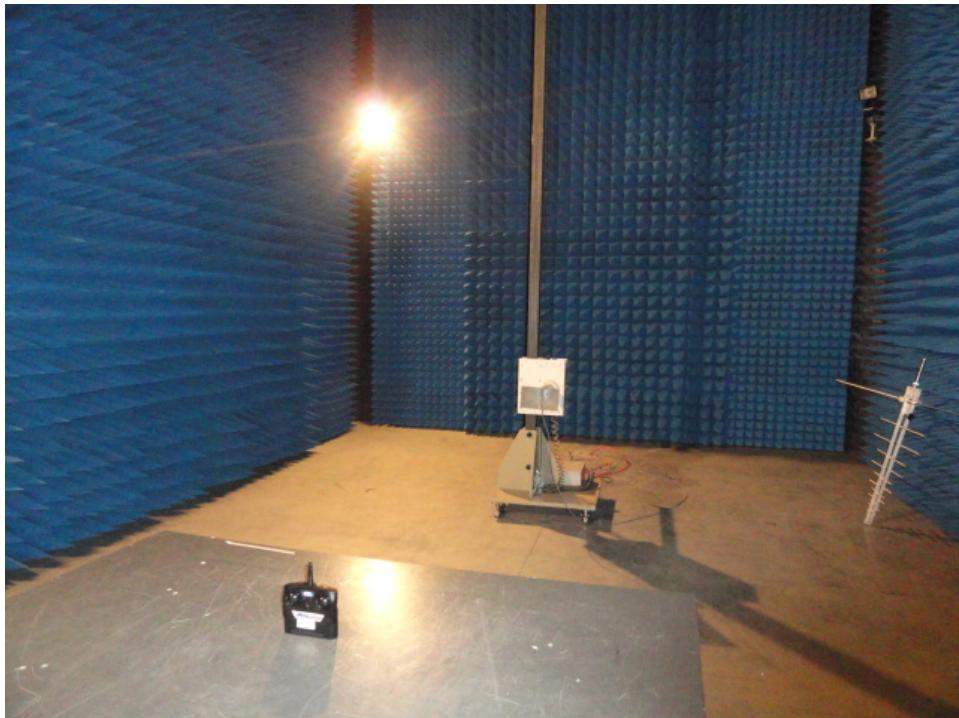
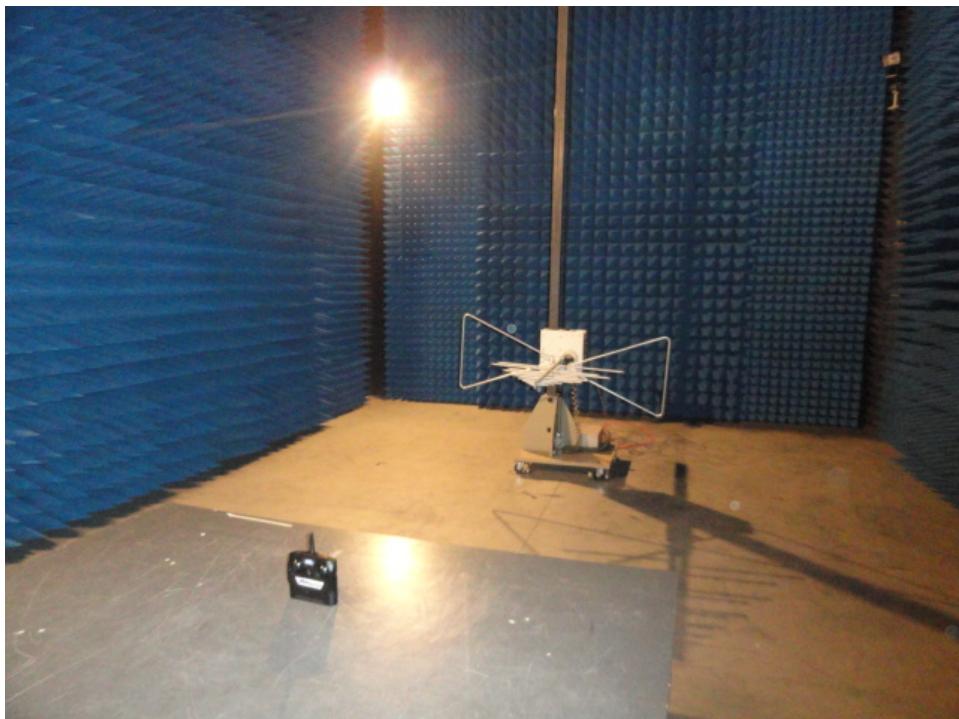


11.0 Photo of testing

11.1 Conducted test View--

N/A

11.2 Radiated emission test view



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11.3 Photo for the EUT

Outside View



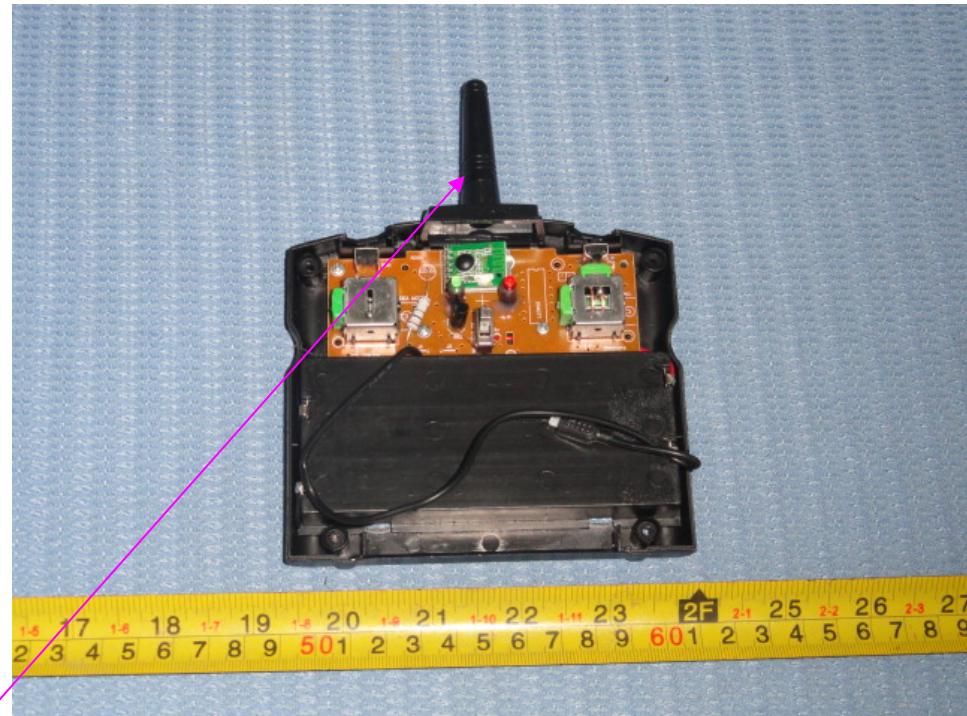
Outside View



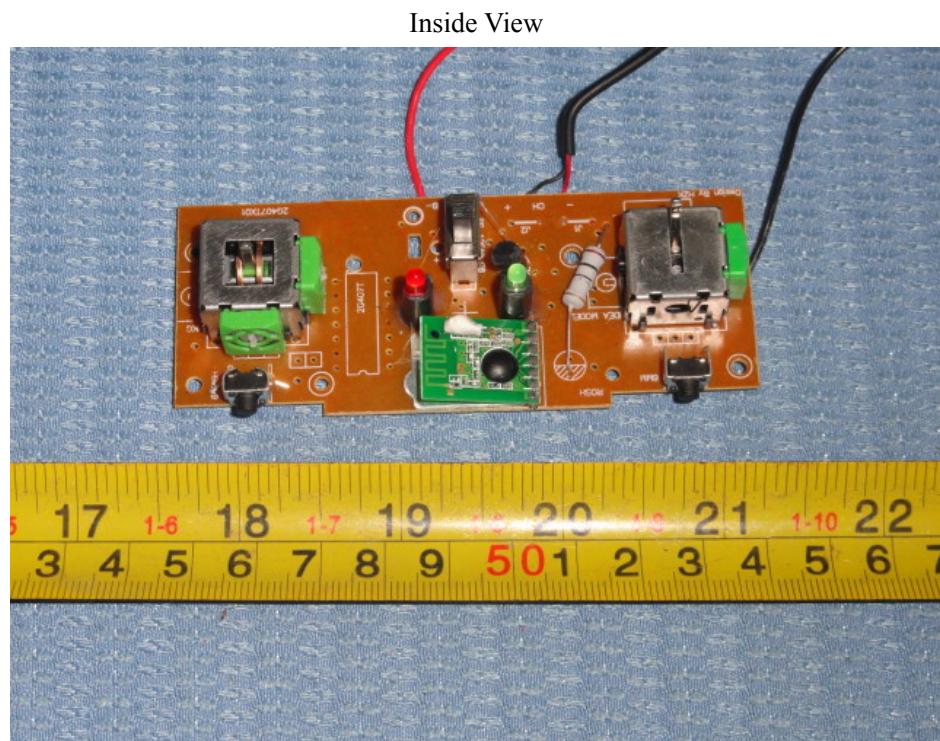
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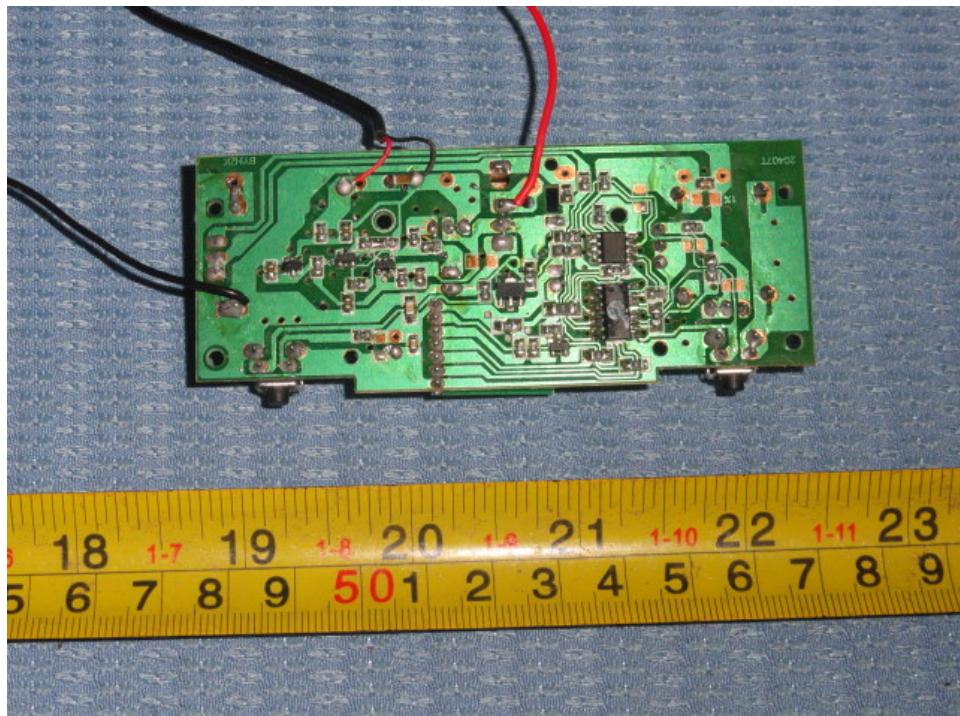


Note: This part like dipole antenna is not a antenna actually. It's just a part of enclosure. For the EUT, only PCB antenna is used

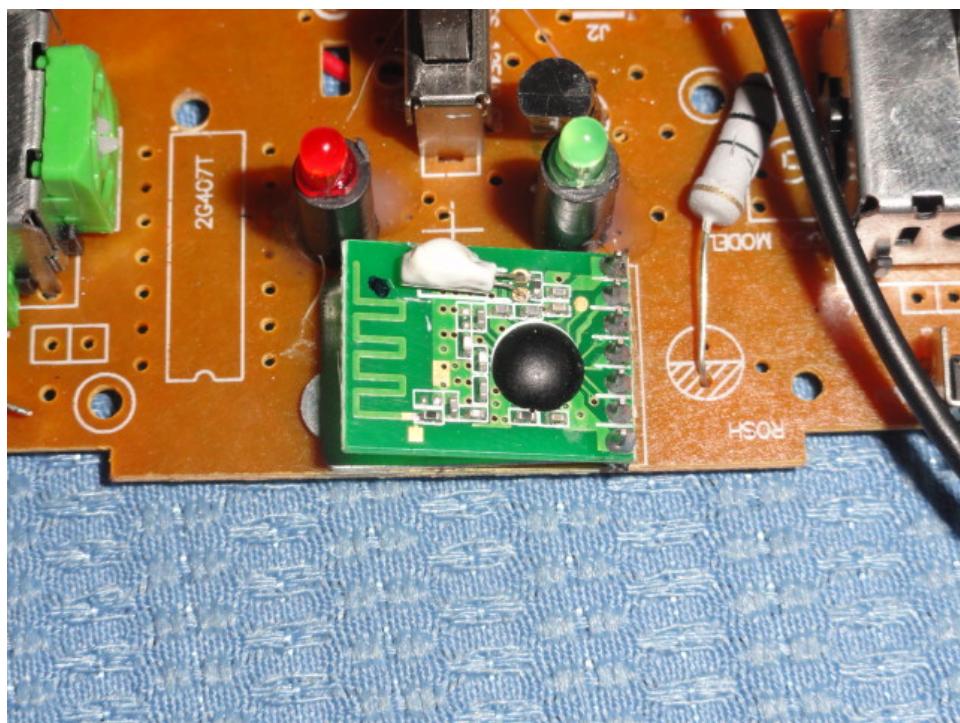


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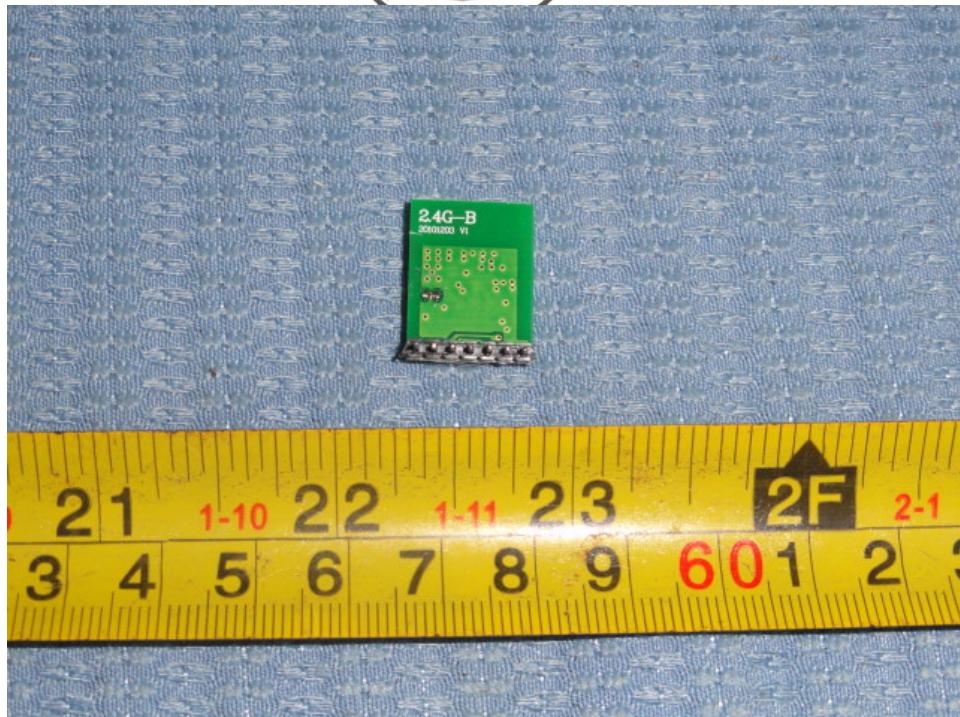
Inside View



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--End of the report--

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