



## SGS-CSTC Standards Technical Services Ltd.

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**FEDERAL COMMUNICATIONS COMMISSION**  
Registration number: 282399

Report No.: SZEMO080602211RFF  
Page: 1 of 14  
FCC ID: VZBCM3921080515

# TEST REPORT

**Application No. :** SZEMO080502211RF  
**Applicant/ Manufacturer:** SHENZHEN XINZHENGSHENG ELECTRONICS CO., LTD  
**FCC ID:** VZBCM3921080515  
**Fundamental Carrier Frequency :** 2.402GHz to 2.476GHz  
**Equipment Under Test (EUT):**

Name: Wii Rf nunchuck

Model: CM3921 G5603 G5602♣



Please refer to section 2 of this report which indicates which item was actually tested and which were electrically identical.

Band Name: HAIS

**Standards:** FCC PART 15: 2006  
Please refer to section 2 for further details.

**Date of Receipt:** 27 May 2008  
**Date of Test:** 27 May to 10 June 2008  
**Date of Issue:** 12 June 2008

<b>Test Result :</b>	<b>PASS *</b>
----------------------	---------------

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Robinson Lo  
Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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## 2 Test Summary

Test	Test Requirement	Stanadard Paragraph	Result
Flid Strength of Fundamental	FCC PART 15 : 2007	Section 15.249 (a)	PASS
Flid Strength of Harmornics or other Frequency	FCC PART 15 : 2007	Section 15.249 (a) Section 15.209	PASS
Occupied Bandwidth	FCC PART 15 : 2007	Section 15.249	PASS
Band Edges Measurement	FCC PART 15 : 2007	Section 15.249 (d)	PASS

### Remark:

The batteries used in the tests were fully charged.

Item No.: CM3921 G5603 G5602

Only the Item in the picture 6 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all the above items.

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## **4 General Information**

### **4.1 Client Information**

Applicant/ Manufacturer: SHENZHEN XINZHENGSHENG ELECTRONICS CO., LTD  
Address of Applicant/ Manufacturer : Building 49, Baotian Industrial Zone Xixiang Town, Baoan District, Shenzhen. China

### **4.2 General Description of E.U.T.**

Product Name: Wii Rf nunchuck  
Model: CM3921 G5603 G5602  
Power Supply: DC 3.0 V(2\*1.5V "AA") for remote part  
Power Cord: N/A-

### **4.3 Description of Support Units**

The EUT was tested as an independent unit: a 2.4GHz Wireless Light Gun.  
The transmitter have 2 frequencies in the 2402MHz and 2476MHz can in exchange for choice.

### **4.4 Standards Applicable for Testing**

The customer requested FCC tests for a 2.4GHz Wii Rf nunchuck.  
The standard used was FCC PART 15, SUBPART C ( 2007) section 15.249.

### **4.5 Test Location**

All tests were performed at:  
SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory, No.198 Kezhu Road, Science Town Economic& Technology Development District Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.

### **4.6 Other Information Requested by the Customer**

None.

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#### **4.7 Test Facility**

The test facility is recognized, certified, or accredited by the following organizations:

- **NVLAP – Lab Code: 200611-0**  
SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is recognized under the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0. Effective through December 31, 2006.
- **ACA**  
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.
- **VCCI**  
The 3m Semi-anechoic chamber and Shielded Room (11.5m x 4m x 4m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-1599 and C-1706 respectively.  
Date of Registration: June 01, 2005. Valid until February 22, 2008
- **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**  
Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.
- **CNAL – LAB Code: L0141**  
SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAL/AC01: 2002 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of Testing Laboratories.
- **FCC – Registration No.: 282399**  
SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002. With the above and NVLAP's accreditation, SGS-CSTC is an authorised test laboratory for the DoC process.
- **Industry Canada (IC)**  
The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5169.

## 5 Test Results

### 5.1 Test Instruments

R&TTE RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (dd-mm-yy)	Cal.Due date (dd-mm-yy)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	16-06-2007	15-06-2009
2	EMI Test Receiver	Rohde & Schwarz	ESIB26	SEL0023	12-12-2007	11-12-2008
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	Coaxial cable	SGS	N/A	SEL0028	01-06-2008	31-05-2009
5	Coaxial cable	SGS	N/A	SEL0027	01-06-2008	31-05-2009
6	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0014	12-08-2007	11-08-2008
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	27-06-2007	26-06-2008
8	Active Loop Antenna	Beijing Daze	ZN30900A	SEL0097	15-06-2007	14-06-2008

### 5.2 E.U.T. Operation

Input voltage: DC 3.7 V( Rechargeable Battery) for dongle part.

Operating Environment:

Temperature: 24.0 °C

Humidity: 52 % RH

Atmospheric Pressure: 1012 mbar

EUT Operation: Test in transmitting mode:

1. For Lowest Channel: 2.402GHz.
2. For Middle Channel: 2.440GHz.
3. For Highest Channel: 2.476GHz.

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### 5.3 Test Procedure & Measurement Data

#### 5.3.1 Radiated Emissions

##### 5.3.1.1 Test in transmitting mode

Test Requirement: FCC Part15 C  
Test Method: Based on FCC Part15 C Section 15.249  
Test Date: 03 June 2008  
Measurement Distance: 3m (Semi-Anechoic Chamber)  
Frequency range: 30 MHz – 10GHz for transmitting mode.  
Test instrumentation resolution bandwidth  
120 kHz (30 MHz - 1000 MHz),  
Peak:RBW=1 MHz VBW=1MHz (1000 MHz – 25GHz)  
Average:RBW=1MHz VBW=10Hz (1000MHz- 25GHz)  
Operation: Receive antenna scan height 1 - 4 m, polarization Vertical/  
Horizontal

##### Requirements:

Fundamental Frequency (MHz)	Field Strength of Fundamental (dBuV/m @ 3m)	Field Strength of Harmonics and Spurious Emissions (dBuV/m @ 3m)
902 to 928	94.0	54.0
2400 to 2483.5	94.0	54.0
5725 to 5875	94.0	54.0
24000 to 24250	108.0	68.0

The fundamental frequency of the EUT is 2400 to 2483.5MHz

The limit for average field strength dBuV/m for the fundamental frequency = 94.0 dBuV/m.

No fundamental is allowed in the restricted bands.

The limit for average field strength dBuV/m for the harmonics and spurious frequencies = 54.0 dBuV/m. Spurious in the restricted bands must be less than 54.0 dBuV/m or 15.209.

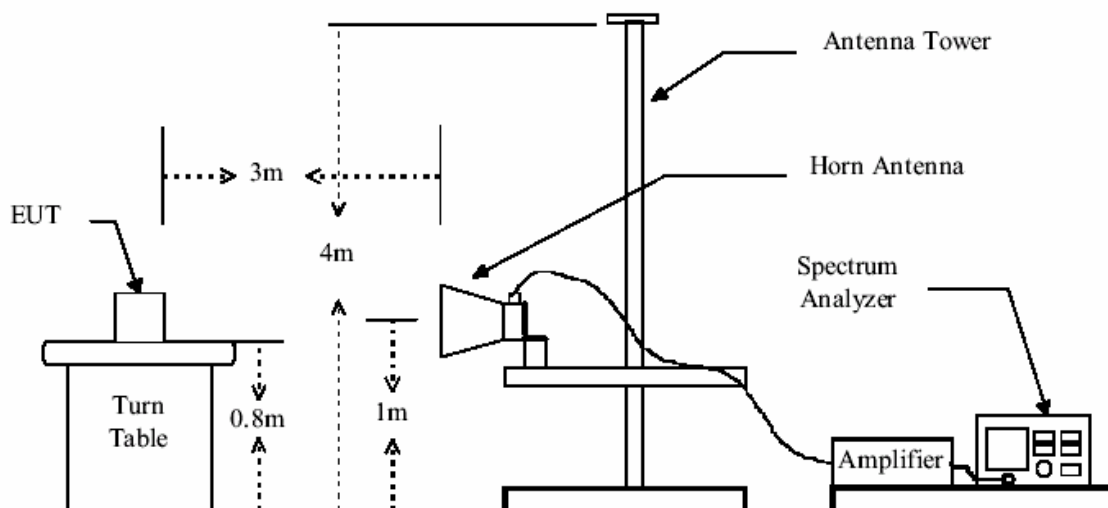
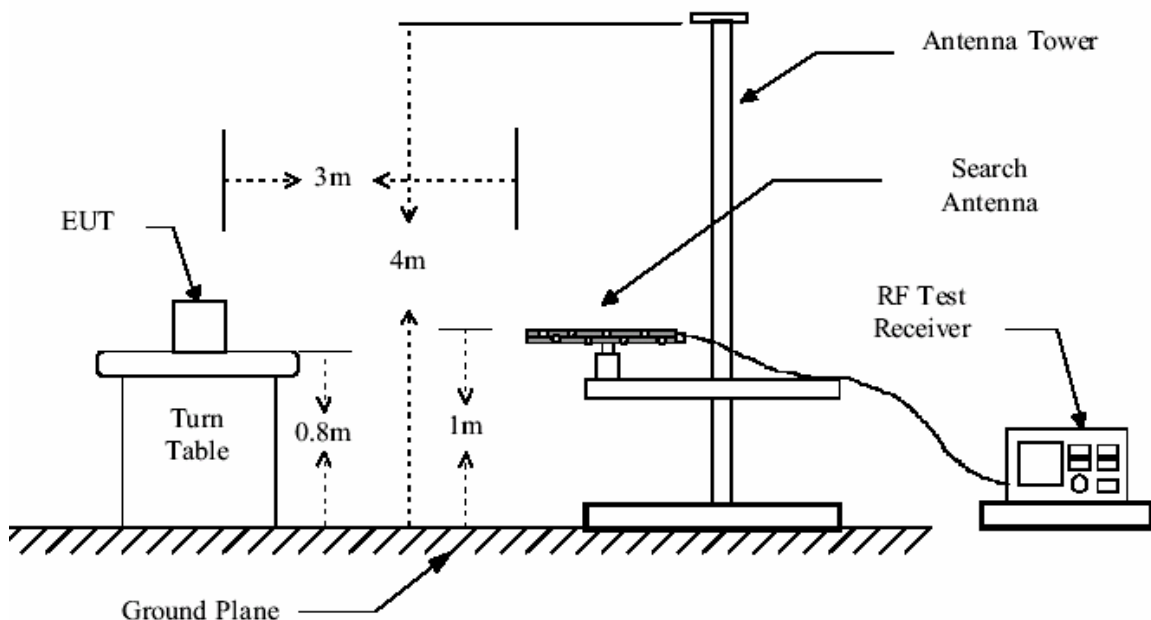
##### Test Procedure:

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
- 7 The radiation measurements are performed in X, Y, Z axis positioning. Only the worst case is shown in the report.

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### Test Configuration:



The following test results were performed on the EUT on 03 June 2008:

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### Peak Measurement

Channel	Test Frequency (GHz)	Measuring Level (dBuV/m)RBW=1MHz VBW=1MHz	Limits (dBuV/m)	Margin (dB)
Lowest	2.402	97.67	114	16.4
Middle	2.440	97.99	114	16.0
Highest	2.476	98.38	114	15.6
Average Measurement				
Channel	Test Frequency (GHz)	Measuring Level (dBuV/m)RBW=1MHz VBW=10Hz	Limits (dBuV/m)	Margin (dB)
Lowest	2.402	88.67	94	5.3
Middle	2.440	89.05	94	5.0
Highest	2.476	90.85	94	3.2

1. For EUT communicating Mode. Lowest channel

30MHz- 1000MHz

Frequency (MHz)	Antenna Polarization	Emission Level Qusia-Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)
244.37	Vertical	28.3	46	17.7
325.85	Vertical	29.2	46	16.8
526.64	Horizontal	31.8	46	14.2
586.78	Horizontal	32.3	46	13.7

Above 1000MHz

Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	
4800.000	43.7	74	30.3	PK
4800.000	37.6	54	16.4	AV
7225.000	40.5	74	33.5	PK
7225.000	35.2	54	18.8	AV
9650.000	40.8	74	33.2	PK
9650.000	34.5	54	19.5	AV
12075.000	40.2	74	33.8	PK
12075.000	35.1	54	18.9	AV

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### 2. For EUT communicating Mode. Middle channel 30MHz- 1000MHz

Frequency (MHz)	Antenna Polarization	Emission Level Qusia-Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB)
244.37	Vertical	33.6	46	12.4
325.85	Vertical	32.9	46	13.1
526.64	Horizontal	35.4	46	10.6
586.78	Horizontal	36.1	46	9.9

### Above 1000MHz

Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	
4875.000	44.0	74	30.0	PK
4875.000	38.9	54	15.1	AV
7350.000	39.3	74	34.7	PK
7350.000	33.1	54	20.9	AV
9825.000	41.0	74	33.0	PK
9825.000	34.8	54	19.2	AV
12300.000	39.9	74	34.1	PK
12300.000	33.7	54	20.3	AV

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### 3. For EUT communicating Mode. Highest channel

30MHz- 1000MHz

Frequency (MHz)	Antenna Polarization	Emission Level Qusia-Peak (dBuV/m)	Limit (dBuV/m)	Margin (dB))
244.37	Vertical	33.7	46	12.3
325.85	Vertical	34.8	46	11.2
526.64	Horizontal	38.2	46	7.8
586.78	Horizontal	37.3	46	8.7

Above 1000MHz

Frequency (MHz)	Level (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	
4950.000	40.8	74	33.2	PK
4950.000	33.9	54	20.1	AV
7425.000	40.3	74	33.7	PK
7425.000	33.4	54	20.6	AV
9900.000	40.1	74	33.9	PK
9900.000	35.1	54	18.9	AV
12450.000	40.5	74	33.5	PK
12450.000	34.7	54	19.3	AV

N/A: refer to remark 1).

Remark:

- 1). For this intentional radiator operates below 10 GHz, the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the fifth harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 4<sup>th</sup> harmonic.
- 2). According to 15.249 (e) As shown in Section 15.35(b), for frequencies above 1000 MHz, the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

TEST RESULTS: The unit does meet the FCC requirements.

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### 5.3.2 Occupied Bandwidth & Band Edge

Test Requirement:	FCC Part 15 C
Test Method:	Based on FCC Part15 C Section 15.249: Operation within the band 2.402 – 2.476GHz
Test Date:	05 June 2008
Requirements:	15.249 (d) 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.
Method of measurement:	A small sample of the transmitter output was fed into the Spectrum Analyzer and the attached plot was taken. The vertical is set to 10dB per division. The horizontal scale is set to 100KHz per division.

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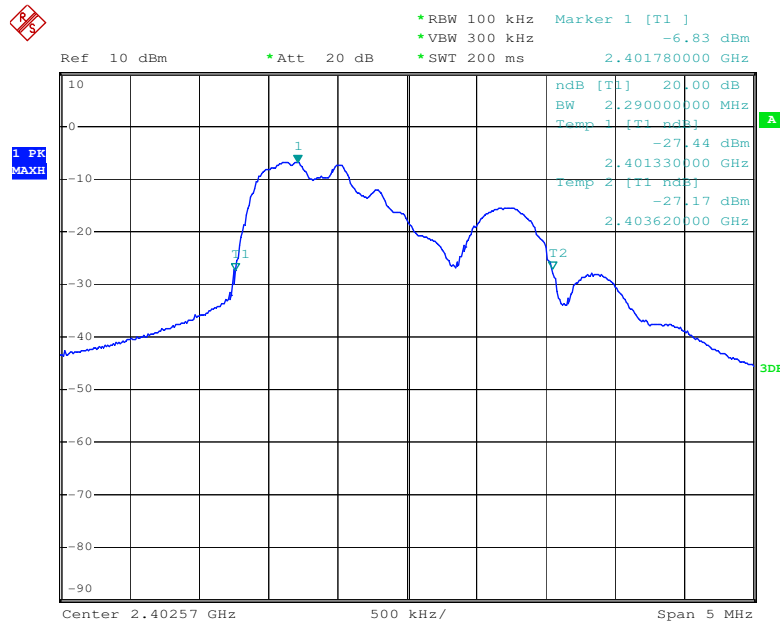
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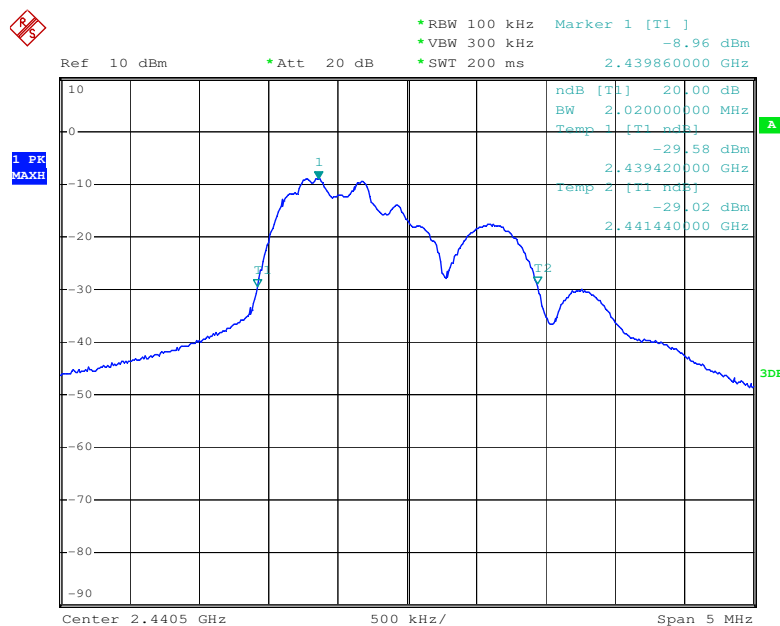
(1). Occupied Bandwidth:  
The occupied bandwidth as below:

**For Lowest Channel:**



Date: 20.JUN.2008 17:51:26

**For Middle Channel:**



FCC ID

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Date: 20.JUN.2008 18:07:19

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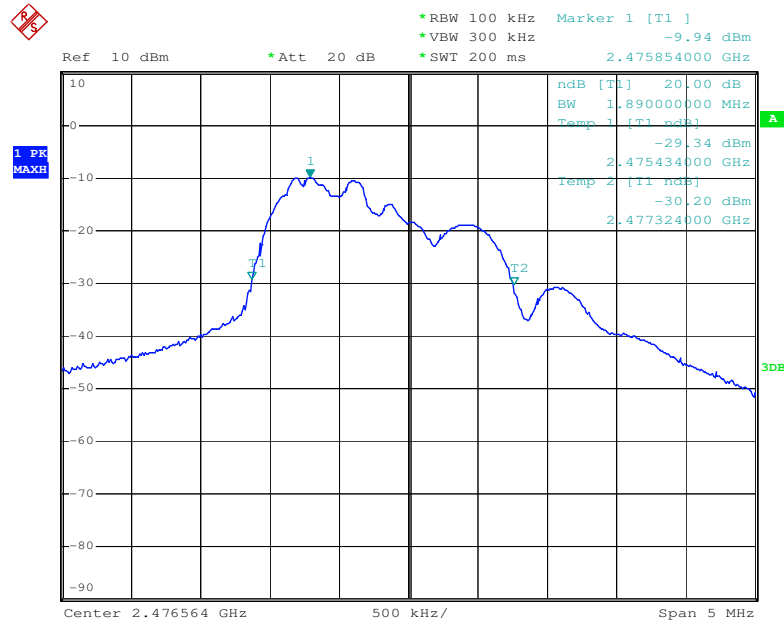


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### For Highest Channel:



Date: 20.JUN.2008 18:08:23

### (2). Band Edge:

The test result for the Emissions radiated outside of the specified frequency bands , please refer the section 5.3.1 of this report.

The worst case is 56.6dBuV/m(PK) at frequency 4.795GHz, it's below the limits in Section 15.209.

For the field strength of Lower Edges:2.402GHz is 60.7dBuV/m(PK).

For the field strength of Lower Edges:2.402GHz is 30.2dBuV/m(AV).

For the field strength of Upper Edges:2.476GHz is 46.8dBuV/m(PK).

For the field strength of Upper Edges:2.476GHz is 30.4dBuV/m(AV).

**The results: The unit does meet the FCC requirements.**

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