

APPLICATION FOR CERTIFICATION  
On Behalf of

MadCatz, Inc.

Wireless ThumbPad Receiver for PS3

Model Number: 8829R

Prepared for : MadCatz, Inc.  
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California, 92108

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Report Number : ACS-F07172  
Date of Test : Apr.09 ~ 30, 2007  
Date of Report : May. 15, 2007

## TABLE OF CONTENTS

Description	Page
FCC Test Report for Declaration of Conformity	
<b>1. SUMMARY OF STANDARDS AND RESULTS.....</b>	<b>1-5</b>
1.1. Description of Standards and Results .....	1-5
<b>2. GENERAL INFORMATION .....</b>	<b>2-1</b>
2.1. Description of Device (EUT).....	2-1
2.2. Tested Supporting System Details .....	2-1
2.3. Test Facility .....	2-2
2.4. Measurement Uncertainty .....	2-2
<b>3. POWER LINE CONDUCTED EMISSION TEST .....</b>	<b>3-1</b>
3.1. Test Equipments.....	3-1
3.2. Block Diagram of Test Setup.....	3-1
3.3. Power Line Conducted Emission Test Limits.....	3-1
3.4. Configuration of EUT on Test .....	3-2
3.5. Operating Condition of EUT.....	3-2
3.6. Test Procedure.....	3-2
3.7. Power Line Conducted Emission Test Results .....	3-2
<b>4. RADIATED EMISSION TEST .....</b>	<b>4-1</b>
4.1. Test Equipment .....	4-1
4.2. Block Diagram of Test Setup.....	4-1
4.3. Radiated Emission Limit.....	4-2
4.4. EUT Configuration on Test.....	4-2
4.5. Operating Condition of EUT.....	4-3
4.6. Test Procedure.....	4-3
4.7. Radiated Emission Test Results .....	4-3
<b>5. CARRIER FREQUENCY SEPARATION TEST .....</b>	<b>5-1</b>
5.1. Test Equipment .....	5-1
5.2. Test Information .....	5-1
5.3. Test Results .....	5-1
<b>6. 20 DB BANDWIDTH TEST .....</b>	<b>6-1</b>
6.1. Test Equipment .....	6-1
6.2. Test Information .....	6-1
6.3. Test Results .....	6-1
<b>7. NUMBER OF HOPPING FREQUENCY TEST .....</b>	<b>7-1</b>
7.1. Test Equipment .....	7-1
7.2. Test Information .....	7-1
7.3. Test Results .....	7-1
<b>8. DWELL TIME TEST .....</b>	<b>8-1</b>
8.1. Test Equipment .....	8-1
8.2. Test Information .....	8-1
8.3. Test Results .....	8-1
<b>9. MAXIMUM PEAK OUTPUT POWER TEST .....</b>	<b>9-1</b>
9.1. Test Equipment .....	9-1
9.2. Test Information .....	9-1
9.3. Test Results .....	9-1
<b>10. BAND EDGE COMPLIANCE TEST .....</b>	<b>10-1</b>
10.1. Test Equipment .....	10-1

10.2. Test Information ..... 10-1

10.3. Test Results ..... 10-1

**11. MPE ESTIMATION ..... 11-1**

11.1. Limit for General Population / Uncontrolled Exposures ..... 11-1

11.2. Estimation Result ..... 11-1

**12. DEVIATION TO TEST SPECIFICATIONS..... 12-1**

**13. PHOTOGRAPH..... 13-1**

13.1. Photos of Power Line Conducted Emission Test ..... 13-1

13.2. Photos of Radiated Emission Test..... 13-2

## TEST REPORT CERTIFICATION

Applicant : MadCatz, Inc.  
EUT Description : Wireless ThumbPad Receiver for PS3  
(A) MODEL NO. : 8829R  
(B) SERIAL NO. : N/A  
(C) POWER SUPPLY : DC 5V From PS3 Input AC 120V/60Hz

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C 2006

The device described above is tested by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both radiated and conducted emissions.

The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Date of Test : Apr.09 ~ 30, 2007

Prepared by : YoYo Wang / Assistant

Reviewer : Iceman Hu / Senior Engineer

Approved & Authorized Signer : Ken Lu / Deputy Manager

# 1. SUMMARY OF STANDARDS AND RESULTS

## 1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Conducted Emission Test	FCC Part 15: 15.207	PASS
Radiated Emission Test	FCC Part 15: 15.209 ANSI C63.4: 2003	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247	PASS
20 dB Bandwidth Test	FCC Part 15: 15.247	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247	PASS
Dwell Time Test	FCC Part 15: 15.247	PASS
Maximum Peak Output Power Test	FCC Part 15: 15.247	PASS
Band Edge Compliance Test	FCC Part 15: 15.247	PASS
MPE ESTIMATION	FCC Part 2: 2.1093	PASS

## 2. GENERAL INFORMATION

### 2.1. Description of Device (EUT)

Description	:	Wireless ThumbPad Receiver for PS3
Model Number	:	8829R
Operation frequency	:	2.41GHz-----2.47GHz ISM Band
Radio Technology	:	MSK
Modulation Technology	:	FHSS modulation
Antenna	:	Integral antenna
Power	:	DC 5V From PS3 Input AC 120V/60Hz
Antenna Assembly Gain	:	0dBi (maximum)
Applicant	:	MadCatz, Inc. 7480 Mission Valley Road, Suite 101, San Diego, California, 92108
PS3	:	Manufacture: SONY, M/N: CECHC04 S/N: HCP3-07-001
Date of Test	:	Apr.09~30, 2007

### 2.2. Tested Supporting System Details

#### 2.2.1. TV

EMC CODE	:	ACS-EMC-TV01T
M/N	:	1419A
Manufacturer	:	TCL
Power cord	:	Unshielded, Undetachable, 1.8m
FCC ID	:	By Verification
BSMI ID	:	N/A

### 2.3. Test Facility

#### Site Description

- 3m Anechoic Chamber : Certificated by FCC, USA  
Registration Number: 90454  
Jun. 13, 2006
- 3m & 10m Anechoic Chamber : Certificated by FCC, USA  
Registration Number: 794232  
Jan. 31, 2007
- EMC Lab. : Certificated by DATech, German  
Registration Number: DAT-P-091/99-01  
Feb. 02, 2004
- Certificated by NVLAP, USA  
NVLAP Code: 200372-0  
Apr.01, 2006
- Certificated by Nemko, Norway  
Aut. No.: ELA135  
April. 22, 2004
- Certificated by Industry Canada  
Registration Number: IC 5183  
Jul. 28, 2004
- Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
- Site Location : No. 6, Ke Feng Rd., 52 Block,  
Shenzhen Science & Industrial Park,  
Nantou, Shenzhen, Guangdong, China

### 2.4. Measurement Uncertainty

No.	Item	Uncertainty	Remark
1.	Conducted Emission Test	1.22dB	
2.	Radiated Emission Test	3.14dB	3m Chamber
3.	Radiated Emission Test	3.18dB	10m Chamber
4.	RF frequency	$\pm 0.5 \times 10^{-7}$	
5.	RF power, conducted	$\pm 3$ dB	

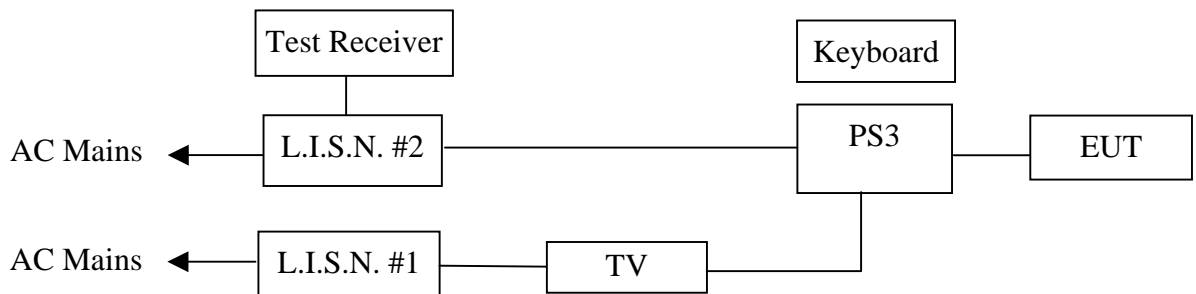
### 3. POWER LINE CONDUCTED EMISSION TEST

#### 3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	May 15, 06	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ENV4200	100041	May 15, 06	1 Year
3.	L.I.S.N.#2	Kyoritsu	KNW-407	8-1628-5	May 15, 06	1 Year
4.	Terminator	Hubersuhner	50Ω	No. 1	May 15, 06	1 Year
5.	RF Cable	Fujikura	RG-55/U	LISN Cable 2#	Jan. 30, 07	1/2 Year
6.	Coaxial Switch	Anritsu	MP59B	6200298346	Jan. 30, 07	1/2 Year
7.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100341	Jan. 30, 07	1/2 Year

#### 3.2. Block Diagram of Test Setup

##### 3.2.1. Block diagram of connection between the EUT and simulators



*(EUT: Wireless ThumbPad Receiver for PS3)*

#### 3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. \* Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.



### 3.4.Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

#### 3.4.1.Wireless ThumbPad Receiver for PS3 (EUT)

Model Number : 8829R

Serial Number : N/A

#### 3.4.2.Support Equipment : As Tested Supporting System Detail, in Section 2.2..

### 3.5.Operating Condition of EUT

3.5.1.Setup the EUT and simulator as shown as Section 3.2.

3.5.2.Turn on the power of all equipment.

3.5.3.Let the EUT work in test mode (TX) and measure it.

### 3.6.Test Procedure

The EUT Via PS3 Power connected to the power mains through a line impedance stabilization network (L.I.S.N.#2). This provides a 50 ohm coupling impedance for the EUT. Please refer the block diagram of the test setup and photographs. The other peripheral devices power cord connected to the power mains through a line impedance stabilization network (L.I.S.N.#1). Power on the PC and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC Part 15C on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS20) is set at 10kHz.

The frequency range from 150kHz to 30MHz is checked.

The test result are reported on Section 3.7.,

### 3.7.Power Line Conducted Emission Test Results

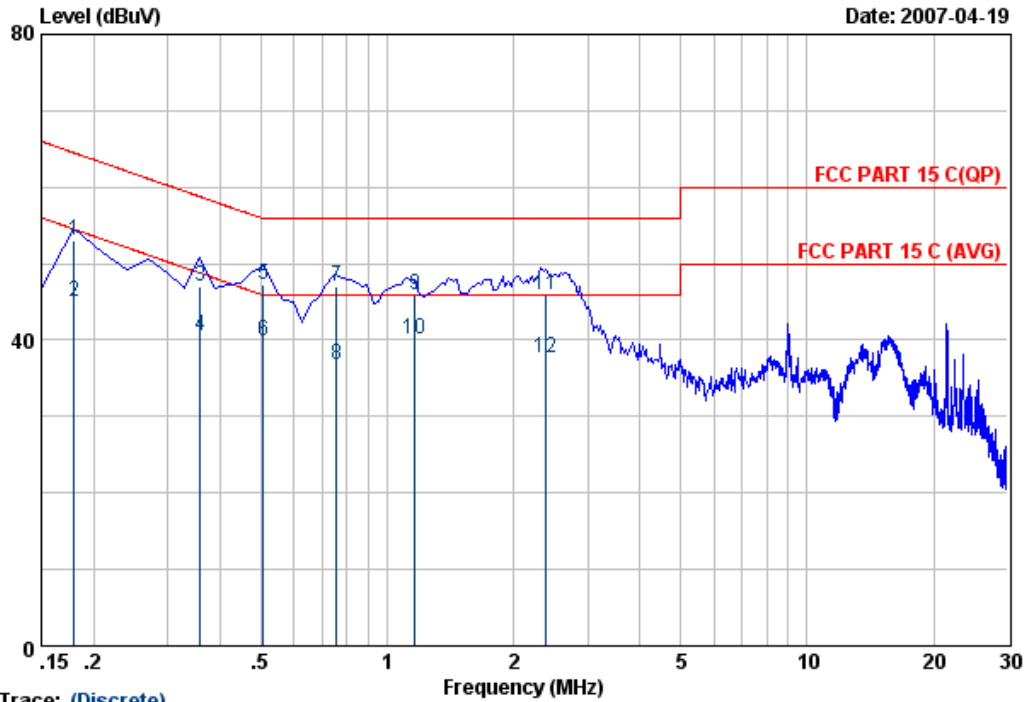
**PASS.**



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Data: 3 File: D:\2007 Report data\M\madcatz\ACS7QH051.EMI (16)

Date: 2007-04-19



Trace: (Discrete)

Site no. : Audix No.2 Conduction Data no. : 3  
 Dis. / Ant. : -- VA KNW-407 LISN Phase :  
 Limit : FCC PART 15 C(QP)  
 Env. / Ins. : 29.5°C/55% ESHS 20 Engineer : Jolly  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX Mode  
 M/N:8829R  
 VA is Neutral line

	Freq. (MHz)	LISN. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.18	0.64	10.21	42.11	52.96	64.49	11.53	QP
2	0.18	0.64	10.21	34.21	45.06	54.49	9.43	Average
3	0.36	0.36	10.07	36.50	46.93	58.78	11.85	QP
4	0.36	0.36	10.07	30.10	40.53	48.78	8.25	Average
5	0.51	0.25	10.14	36.80	47.19	56.00	8.81	QP
6	0.51	0.25	10.14	29.60	39.99	46.00	6.01	Average
7	0.76	0.23	10.14	36.69	47.06	56.00	8.94	QP
8	0.76	0.23	10.14	26.39	36.76	46.00	9.24	Average
9	1.16	0.21	10.16	35.60	45.97	56.00	10.03	QP
10	1.16	0.21	10.16	29.80	40.17	46.00	5.83	Average
11	2.39	0.20	10.17	35.60	45.97	56.00	10.03	QP
12	2.39	0.20	10.17	27.40	37.77	46.00	8.23	Average

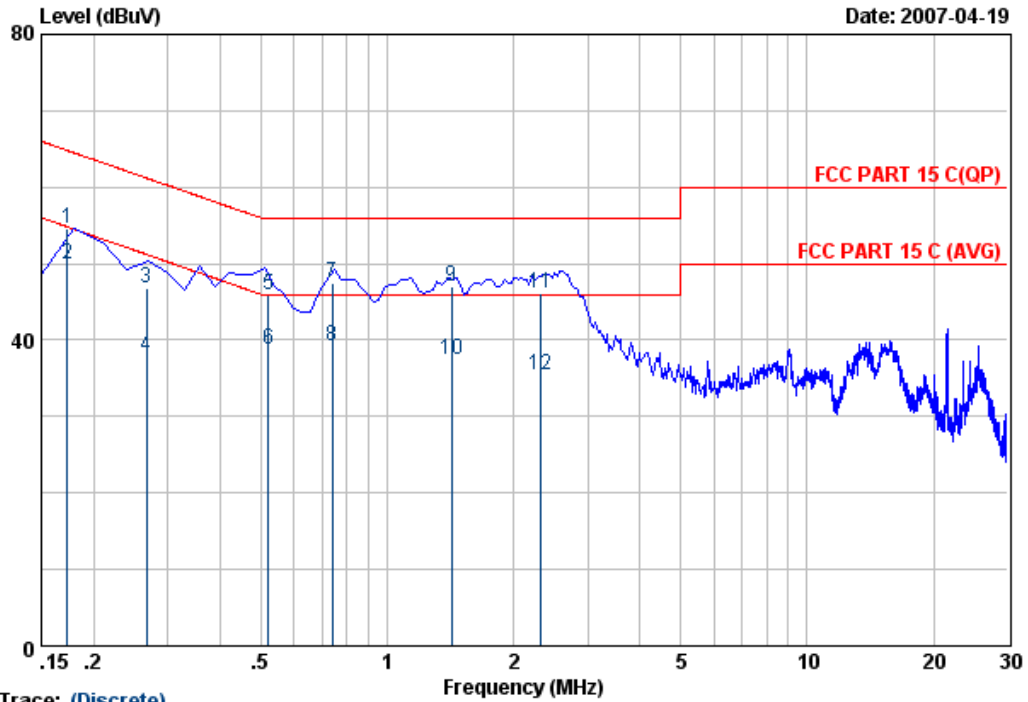
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data: 4 File: D:\2007 Report data\M\madcatz\ACS7QH051.EMI (16)

Date: 2007-04-19



Trace: (Discrete)

Site no. : Audix No.2 Conduction Data no. : 4  
 Dis. / Ant. : -- VB KNW-407 LISN Phase :  
 Limit : FCC PART 15 C (QP)  
 Env. / Ins. : 29.5°C/55% ESHS 20 Engineer : Jolly  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX Mode  
 M/N:8829R  
 VB is Phase line

	Freq. (MHz)	LISN. Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.17	1.22	10.16	43.16	54.54	64.84	10.30	QP
2	0.17	1.22	10.16	38.60	49.98	54.84	4.86	Average
3	0.27	0.82	10.09	35.90	46.81	61.19	14.38	QP
4	0.27	0.82	10.09	27.02	37.93	51.19	13.26	Average
5	0.52	0.51	10.13	35.20	45.84	56.00	10.16	QP
6	0.52	0.51	10.13	28.24	38.88	46.00	7.12	Average
7	0.74	0.40	10.14	37.00	47.54	56.00	8.46	QP
8	0.74	0.40	10.14	28.70	39.24	46.00	6.76	Average
9	1.42	0.33	10.17	36.60	47.10	56.00	8.90	QP
10	1.42	0.33	10.17	26.90	37.40	46.00	8.60	Average
11	2.32	0.31	10.16	35.55	46.02	56.00	9.98	QP
12	2.32	0.31	10.16	24.91	35.38	46.00	10.62	Average

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.  
 2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

## 4. RADIATED EMISSION TEST

### 4.1. Test Equipment

The following test equipments are used during the radiated emission test:

#### 4.1.1. For Anechoic Chamber

Frequency rang: 30~1000MHz

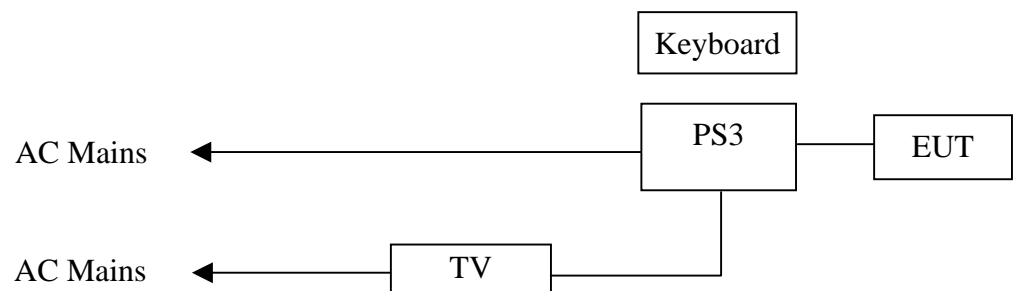
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Spectrum	HP	85422E	3625A00181	May 15, 06	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 15, 06	1 Year
3.	Amplifier	HP	8447D	2944A07794	Mar.12, 07	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Feb.22, 07	1 Year
5.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Jan. 18, 07	1/2 Year
6.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Jan. 18,07	1/2 Year
7.	RF Cable	FUJIKURAw	RG-55/U	3# Chamber No.3	Jan. 18,07	1/2 Year
8.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Jan. 18,07	1/2 Year
9.	Coaxial Switch	Anritsu	MP59B	M73989	Jan. 18,07	1/2 Year

Frequency rang: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 15, 06	1 Year
2.	Amp	HP	8449B	3008A00863	May 15, 06	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 15, 06	1 Year

### 4.2. Block Diagram of Test Setup

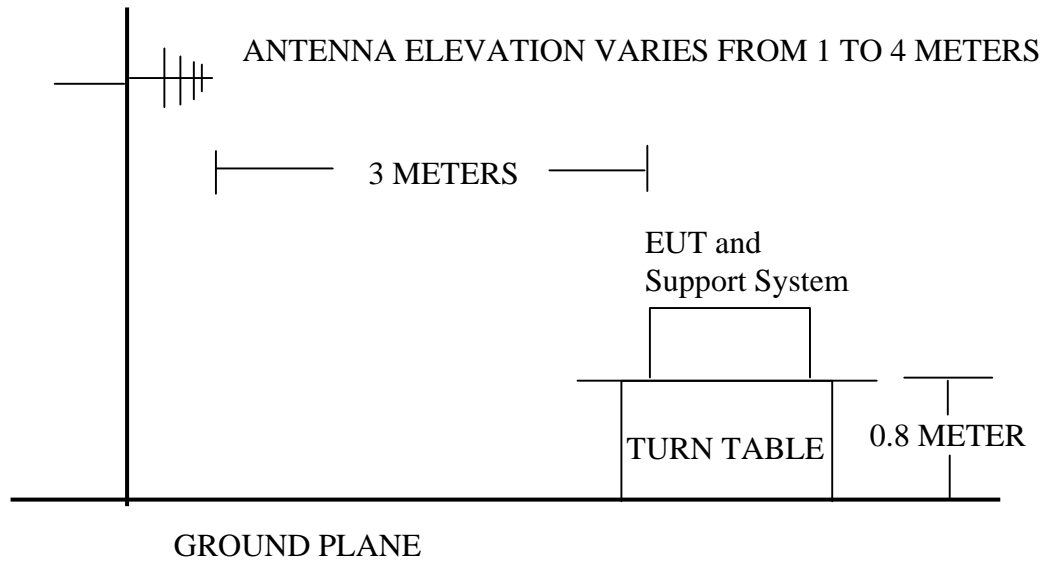
#### 4.2.1. Block diagram of connection between the EUT and simulators



*(EUT: Wireless ThumbPad Receiver for PS3)*

4.2.2.In Anechoic Chamber

ANTENNA TOWER



4.3.Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level  $\text{dB}\mu\text{V} = 20 \log$  Emission level  $\mu\text{V}/\text{m}$
  - (2) The smaller limit shall apply at the cross point between two frequency bands.
  - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1.Wireless ThumbPad Receiver for PS3 (EUT)

Model Number : 8829R  
 Serial Number : N/A

4.4.2.Support Equipment : As Tested Supporting System Detail, in Section 2.2.

## 4.5. Operating Condition of EUT

4.5.1. Setup the EUT as shown in Section 4.2..

4.5.2. Let the EUT work in test mode (TX) and test it.

## 4.6. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz.

frequency range from 30MHz to 1000 MHz.

The bandwidth of the VBW is set at 3MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW 10Hz VBW for average emission above 1GHz

The frequency range from 30MHz to 10<sup>th</sup> harmonic are checked.

The test modes (TX Mode) is tested in Anechoic Chamber and all the scanning waveforms are reported with antenna in horizontal and vertical polarization on Section 4.7.

## 4.7. Radiated Emission Test Results

### **PASS.**

The frequency range from 30MHz to 1000MHz and above 1GHz. is investigated. Please see the following pages.

All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 120kHz RBW below 1GHz and a Peak and Average detector with 1MHz RBW above 1GHz,

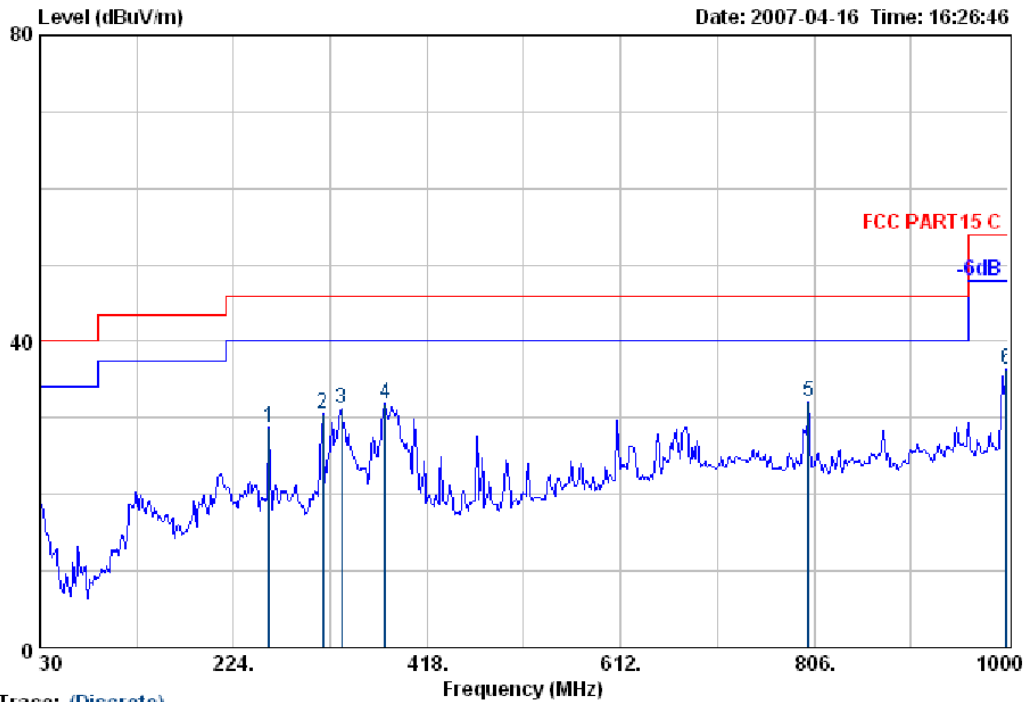
All measurements for radiated emissions within the restricted bands were performed using a Quasi-Peak detector with 300kHz VBW below 1GHz and a Peak detector with 1MHz VBW above 1GHz, A average detector with 10Hz VBW above 1GHz

Radiated emission test for 18-24GHz is measured with peak detector, the RBW is 1MHz and VBW is 3MHz. The measure result complied average limit. So it also complied peak limit.



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Data: 7 File: D:\2007 Report Data\M\MadCatz\ACS7QH051.EMI (36)



Trace: (Discrete)

Site no. : Audix 3# Chamber Data no. : 7  
 Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL  
 Limit : FCC PART15 C  
 Env. / Ins. : 25°C/55% ESVS20 Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2410MHz  
 Memo : M/N:8829R

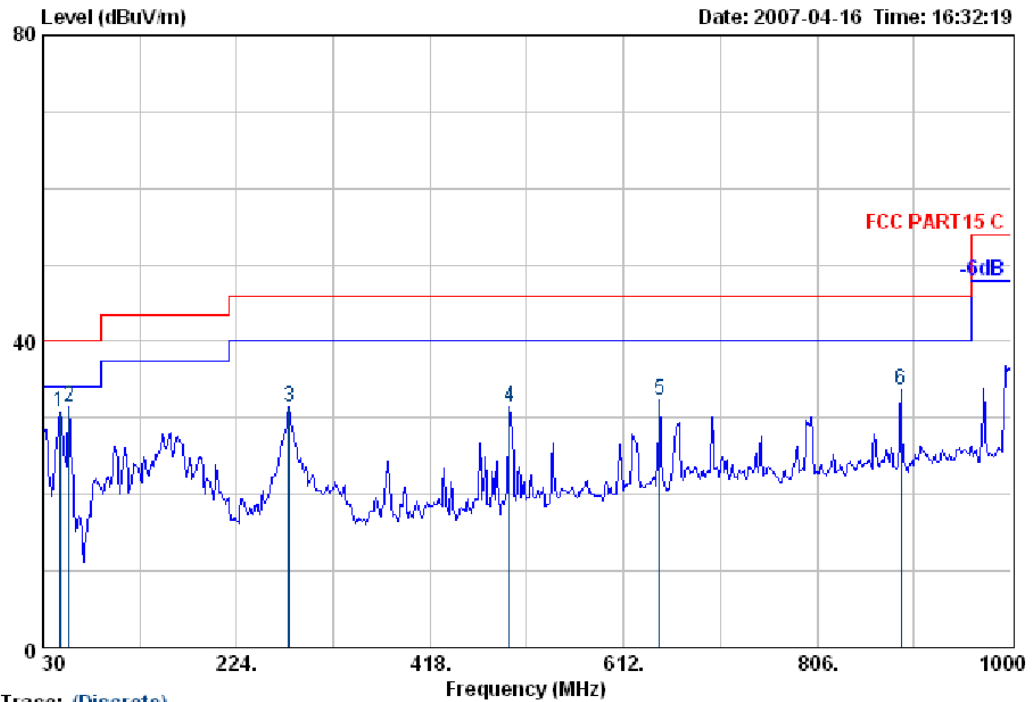
No.	Ant. Cable			Emission				Remark
	Freq. (MHz)	Factor (dB/m)	Loss (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	
1	259.89	13.90	1.55	40.61	28.84	46.00	17.16	QP
2	313.24	13.96	1.74	41.95	30.47	46.00	15.53	QP
3	332.64	14.56	1.76	42.30	31.18	46.00	14.82	QP
4	376.29	15.74	1.78	42.07	31.90	46.00	14.10	QP
5	800.18	21.80	2.61	36.09	32.17	46.00	13.83	QP
6	999.03	24.02	2.66	37.28	36.23	54.00	17.77	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 8 File: D:\2007 Report Data\M\MadCatz\ACS70H051.EMI (36)



Trace: (Discrete)

Site no. : Audix 3# Chamber Data no. : 8  
 Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL  
 Limit : FCC PART15 C  
 Env. / Ins. : 25°C/55% ESVS20 Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2410MHz  
 Memo : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	46.49	10.67	0.84	47.08	30.74	40.00	9.26	QP
2	56.19	6.66	0.90	51.82	31.48	40.00	8.52	QP
3	276.38	13.30	1.50	43.72	31.39	46.00	14.61	QP
4	497.54	18.10	2.04	40.00	31.50	46.00	14.50	QP
5	647.89	20.24	2.20	38.49	32.24	46.00	13.76	QP
6	890.39	22.90	2.50	36.52	33.55	46.00	12.45	QP

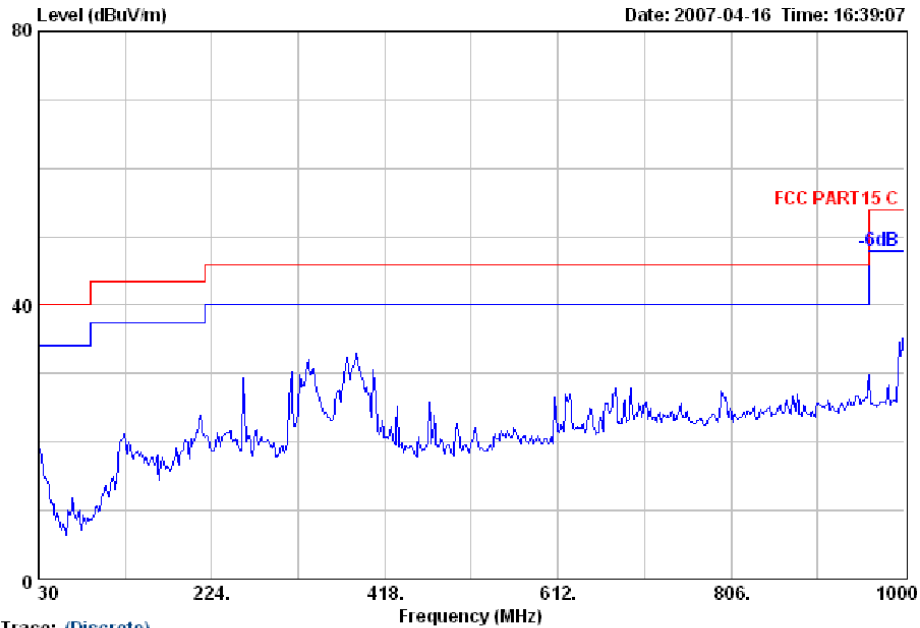
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.





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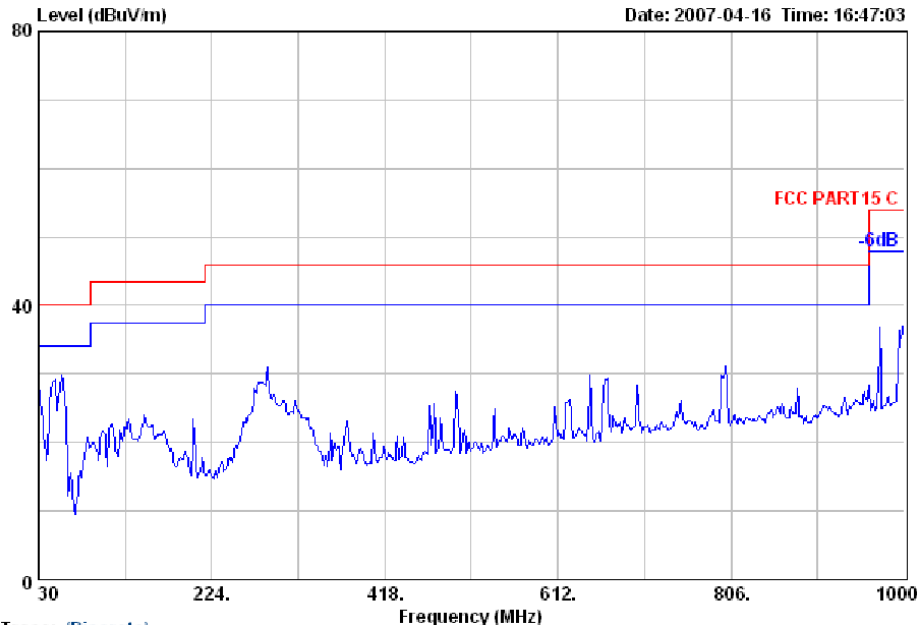
Data: 9 File: D:\2007 Report Data\M\MadCatz\ACS70H051.EMI (36) Date: 2007-04-16 Time: 16:39:07



Trace: (Discrete)

Site no. : Audix 3# Chamber Data no. : 9  
Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL  
Limit : FCC PART15 C  
Env. / Ins. : 25°C/55% ESVS20 Engineer : Skyle  
EUT : Wireless ThumbPad Receiver for PS3  
Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
Test Mode : TX 2440MHz  
Memo : M/N:8829R

Data: 10 File: D:\2007 Report Data\M\MadCatz\ACS70H051.EMI (36) Date: 2007-04-16 Time: 16:47:03



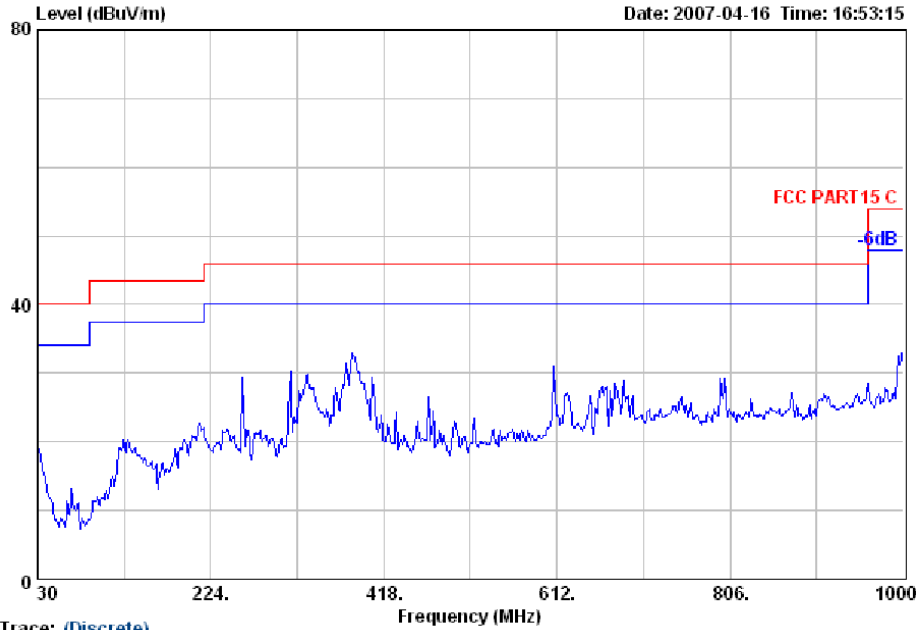
Trace: (Discrete)

Site no. : Audix 3# Chamber Data no. : 10  
Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL  
Limit : FCC PART15 C  
Env. / Ins. : 25°C/55% ESVS20 Engineer : Skyle  
EUT : Wireless ThumbPad Receiver for PS3  
Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
Test Mode : TX 2440MHz  
Memo : M/N:8829R



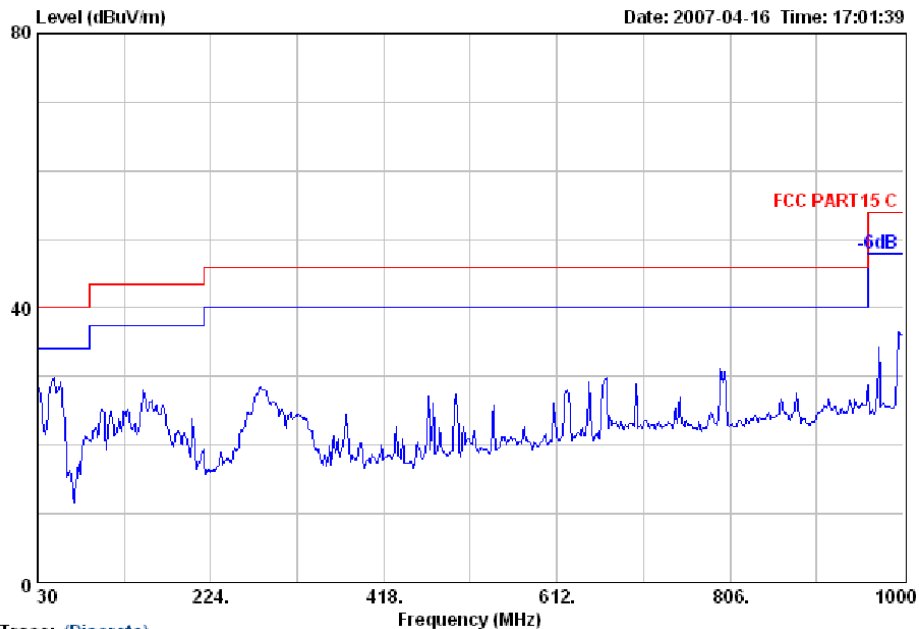
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Fax:+86-755-26632877  
Postcode:518057

Data: 11 File: D:\2007 Report Data\M\MadCatz\ACS70H051.EMI (36)



Trace: (Discrete)  
Site no. : Audix 3# Chamber Data no. : 11  
Dis. / Ant. : 3m 2598 Ant. pol. : HORIZONTAL  
Limit : FCC PART15 C  
Env. / Ins. : 25°C/55% ESVS20 Engineer : Skyle  
EUT : Wireless ThumbPad Receiver for PS3  
Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
Test Mode : TX 2469MHz  
Memo : M/N:8829R

Data: 12 File: D:\2007 Report Data\M\MadCatz\ACS70H051.EMI (36)



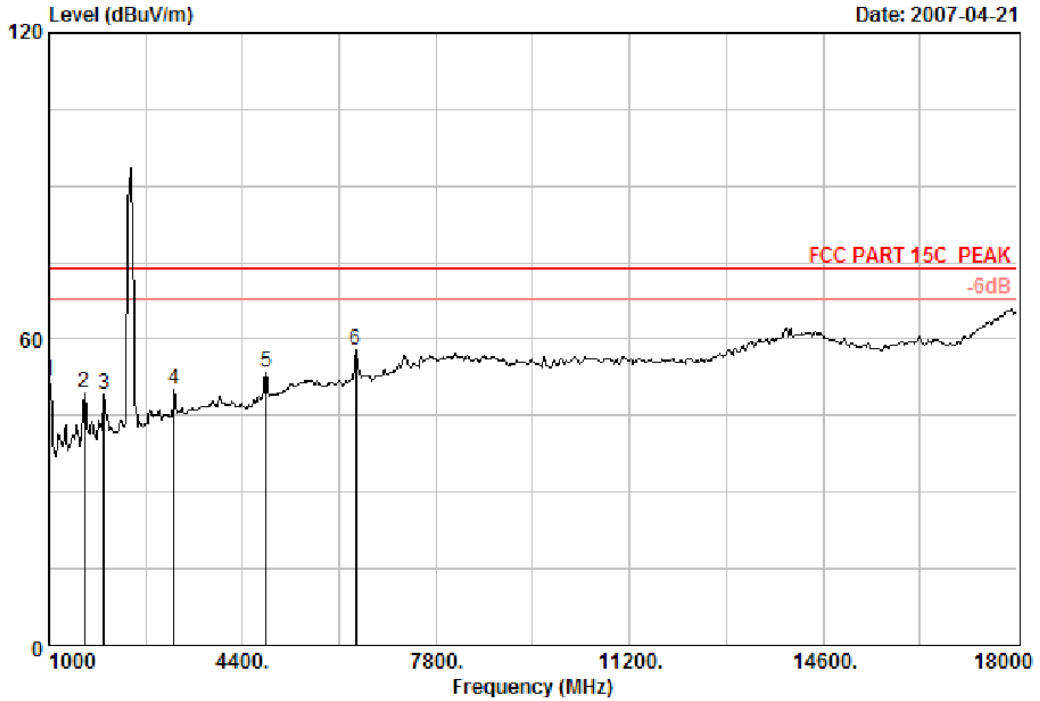
Trace: (Discrete)  
Site no. : Audix 3# Chamber Data no. : 12  
Dis. / Ant. : 3m 2598 Ant. pol. : VERTICAL  
Limit : FCC PART15 C  
Env. / Ins. : 25°C/55% ESVS20 Engineer : Skyle  
EUT : Wireless ThumbPad Receiver for PS3  
Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
Test Mode : TX 2469MHz  
Memo : M/N:8829R



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Data: 3 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 3  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2410MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1000.00	24.40	3.39	36.20	60.17	51.76	74.00	22.24	Peak
2	1629.00	26.09	4.89	35.64	54.04	49.38	74.00	24.62	Peak
3	1969.00	27.88	5.55	35.32	51.02	49.13	74.00	24.87	Peak
4	3193.00	31.52	7.56	34.94	45.92	50.06	74.00	23.94	Peak
5	4808.00	33.98	9.55	34.50	44.37	53.40	74.00	20.60	Peak
6	6389.00	36.18	10.50	34.28	45.43	57.83	74.00	16.17	Peak

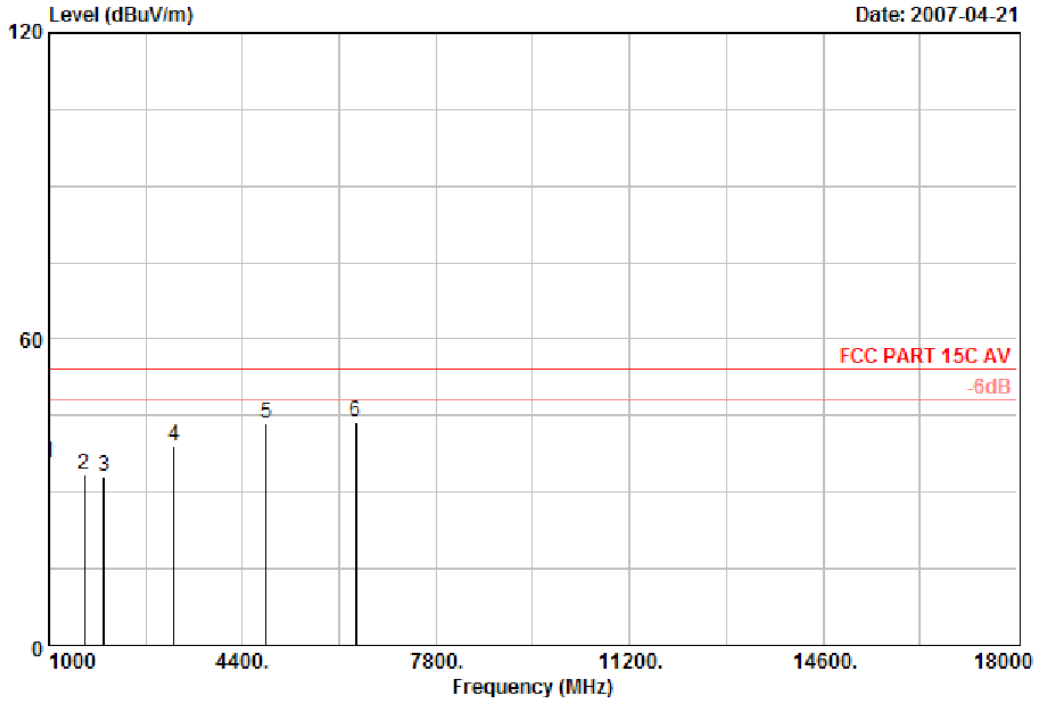
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 4 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 4  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2410MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1000.00	24.40	3.39	36.20	44.17	35.76	54.00	18.24	Average
2	1629.00	26.09	4.89	35.64	38.04	33.38	54.00	20.62	Average
3	1969.00	27.88	5.55	35.32	35.02	33.13	54.00	20.87	Average
4	3193.00	31.52	7.56	34.94	34.92	39.06	54.00	14.94	Average
5	4808.00	33.98	9.55	34.50	34.37	43.40	54.00	10.60	Average
6	6389.00	36.18	10.50	34.28	31.43	43.83	54.00	10.17	Average

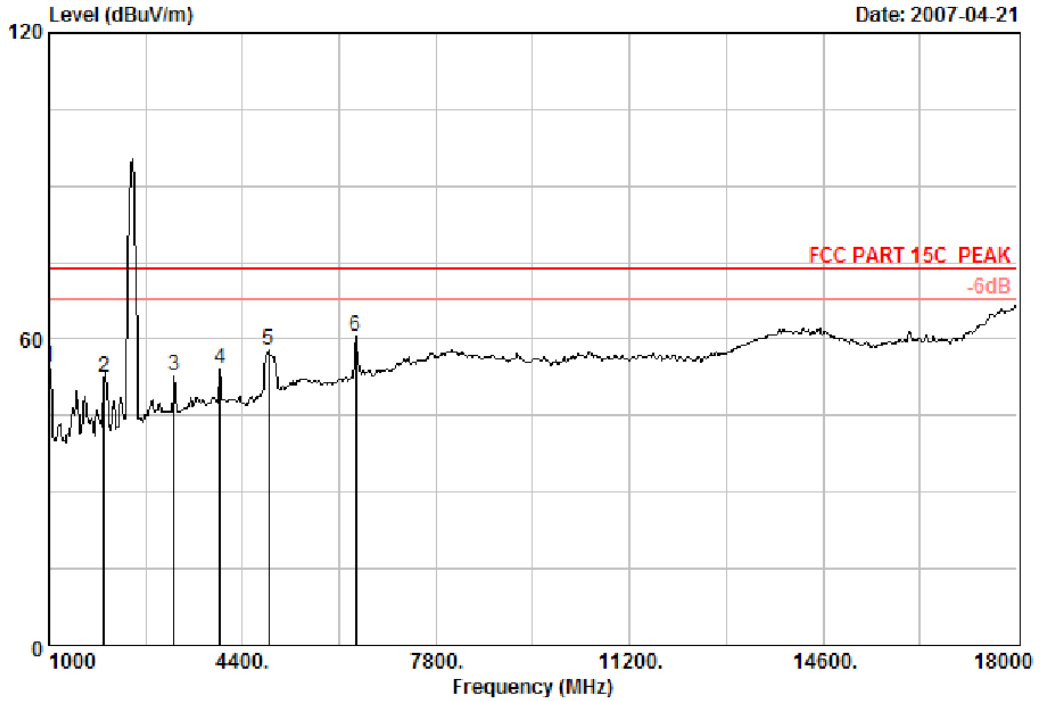
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 1 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 1  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2410MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1000.00	24.40	3.39	36.20	63.04	54.63	74.00	19.37	Peak
2	1969.00	27.88	5.55	35.32	54.32	52.43	74.00	21.57	Peak
3	3193.00	31.52	7.56	34.94	48.56	52.70	74.00	21.30	Peak
4	4009.00	33.78	8.65	34.70	46.26	53.99	74.00	20.01	Peak
5	4859.00	34.11	9.67	34.49	48.51	57.80	74.00	16.20	Peak
6	6389.00	36.18	10.50	34.28	48.15	60.55	74.00	13.45	Peak

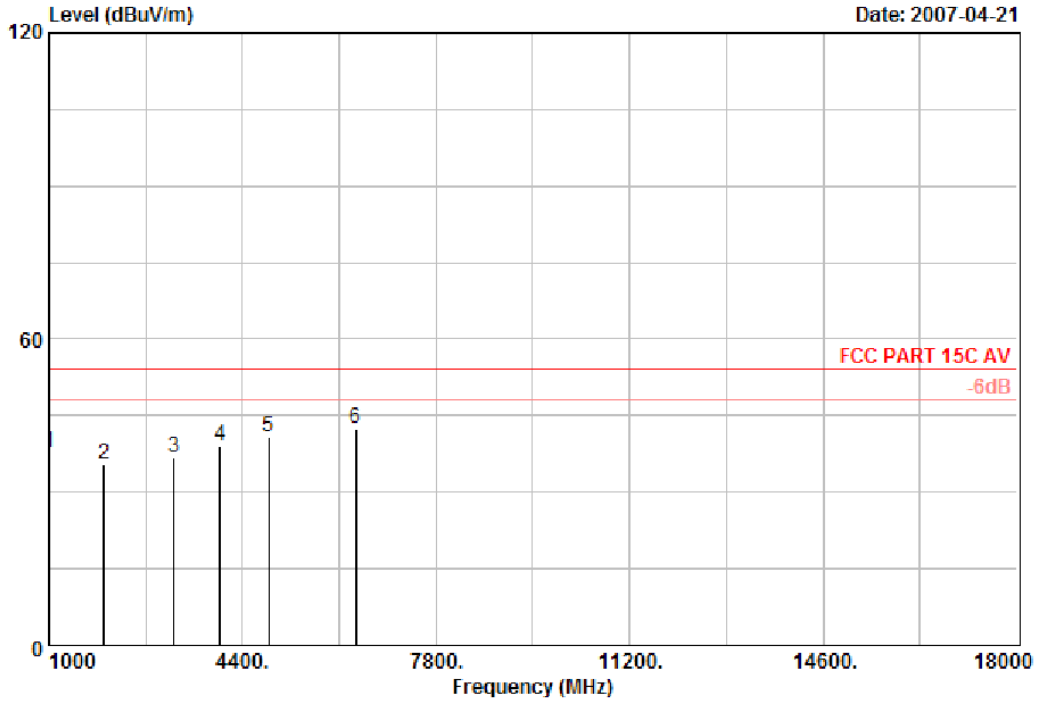
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 2 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 2  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2410MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1002.30	24.40	3.39	36.20	46.04	37.63	54.00	16.37	Average
2	1969.00	27.88	5.55	35.32	37.32	35.43	54.00	18.57	Average
3	3193.00	31.52	7.56	34.94	32.56	36.70	54.00	17.30	Average
4	4009.00	33.78	8.65	34.70	31.26	38.99	54.00	15.01	Average
5	4859.00	34.11	9.67	34.49	31.51	40.80	54.00	13.20	Average
6	6389.00	36.18	10.50	34.28	30.15	42.55	54.00	11.45	Average

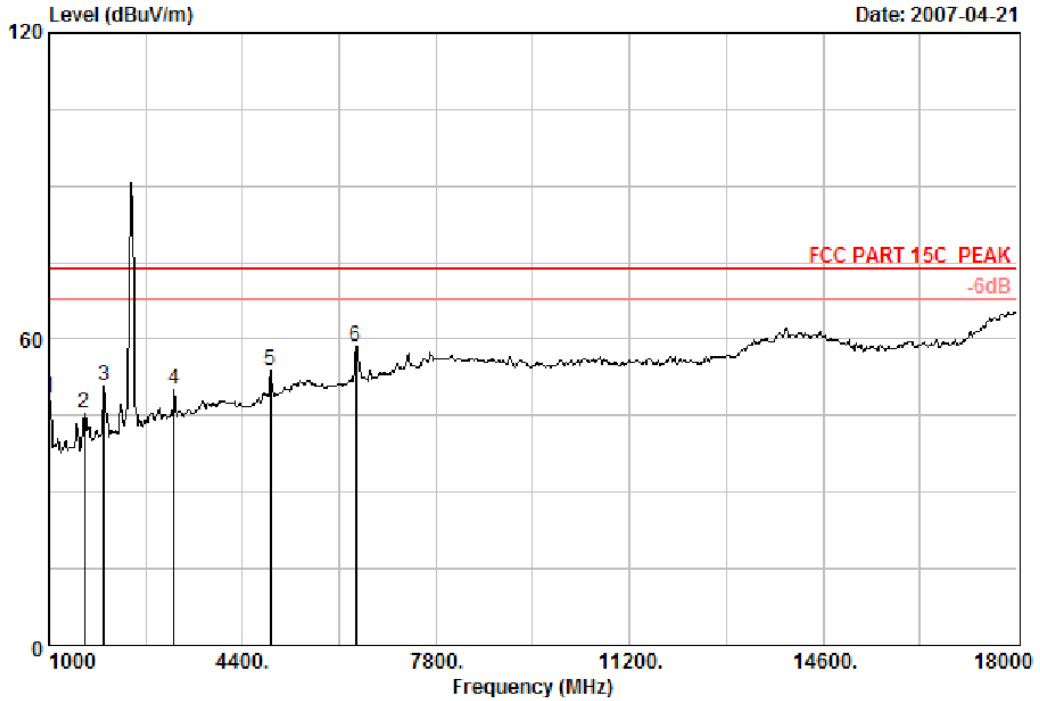
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 5 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 5  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2440MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1000.00	24.40	3.39	36.20	56.81	48.40	74.00	25.60	Peak
2	1629.00	26.09	4.89	35.64	50.24	45.58	74.00	28.42	Peak
3	1969.00	27.88	5.55	35.32	52.72	50.83	74.00	23.17	Peak
4	3193.00	31.52	7.56	34.94	45.96	50.10	74.00	23.90	Peak
5	4893.00	34.20	9.71	34.48	44.29	53.72	74.00	20.28	Peak
6	6389.00	36.18	10.50	34.28	46.24	58.64	74.00	15.36	Peak

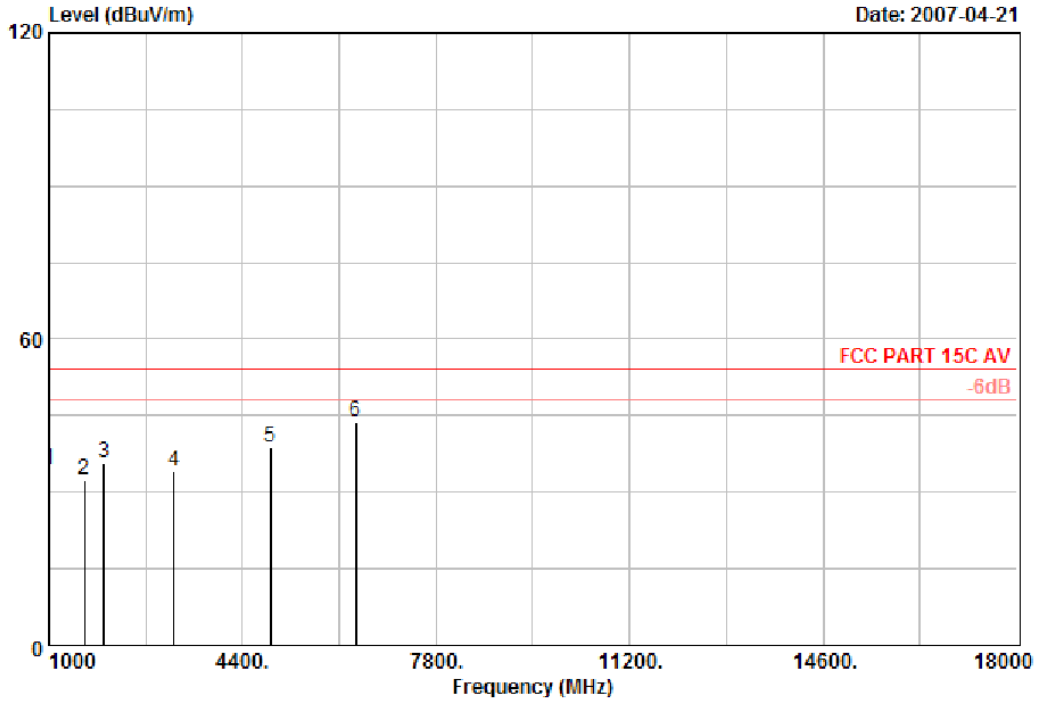
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 6 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 6  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2440MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1000.00	24.40	3.39	36.20	42.81	34.40	54.00	19.60	Average
2	1629.00	26.09	4.89	35.64	37.24	32.58	54.00	21.42	Average
3	1969.00	27.88	5.55	35.32	37.72	35.83	54.00	18.17	Average
4	3193.00	31.52	7.56	34.94	29.96	34.10	54.00	19.90	Average
5	4893.00	34.20	9.71	34.48	29.29	38.72	54.00	15.28	Average
6	6389.00	36.18	10.50	34.28	31.24	43.64	54.00	10.36	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.

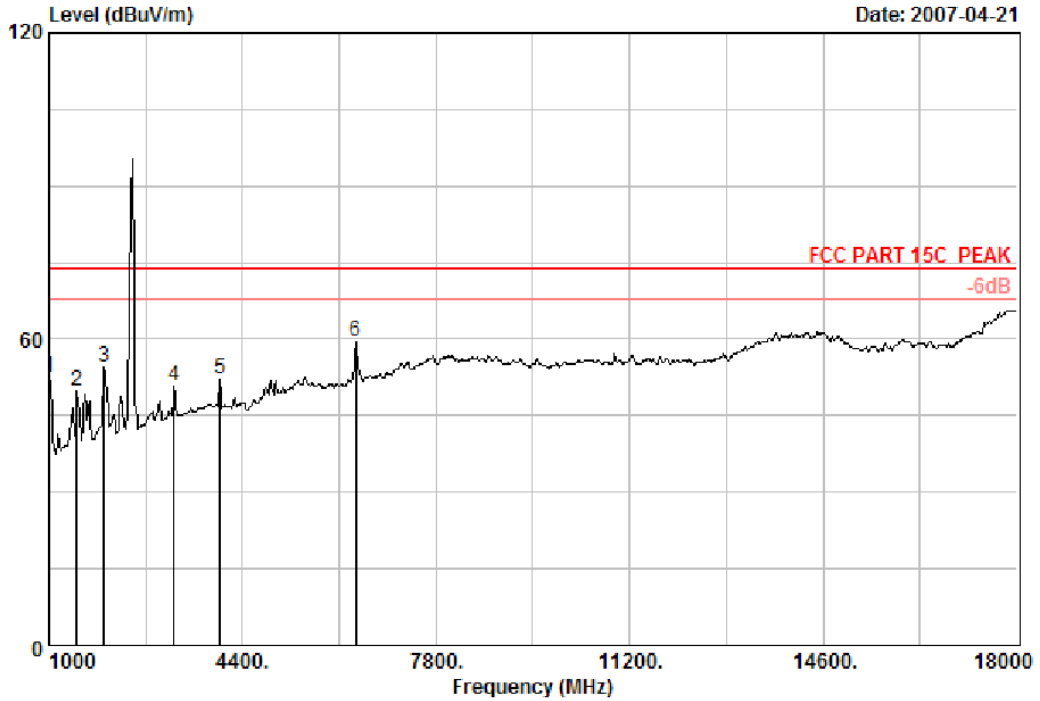




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Data: 7 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 7  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2440MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1000.00	24.40	3.39	36.20	60.84	52.43	74.00	21.57	Peak
2	1493.00	25.37	4.61	35.75	55.61	49.84	74.00	24.16	Peak
3	1969.00	27.88	5.55	35.32	56.54	54.65	74.00	19.35	Peak
4	3193.00	31.52	7.56	34.94	46.72	50.86	74.00	23.14	Peak
5	4009.00	33.78	8.65	34.70	44.31	52.04	74.00	21.96	Peak
6	6389.00	36.18	10.50	34.28	47.19	59.59	74.00	14.41	Peak

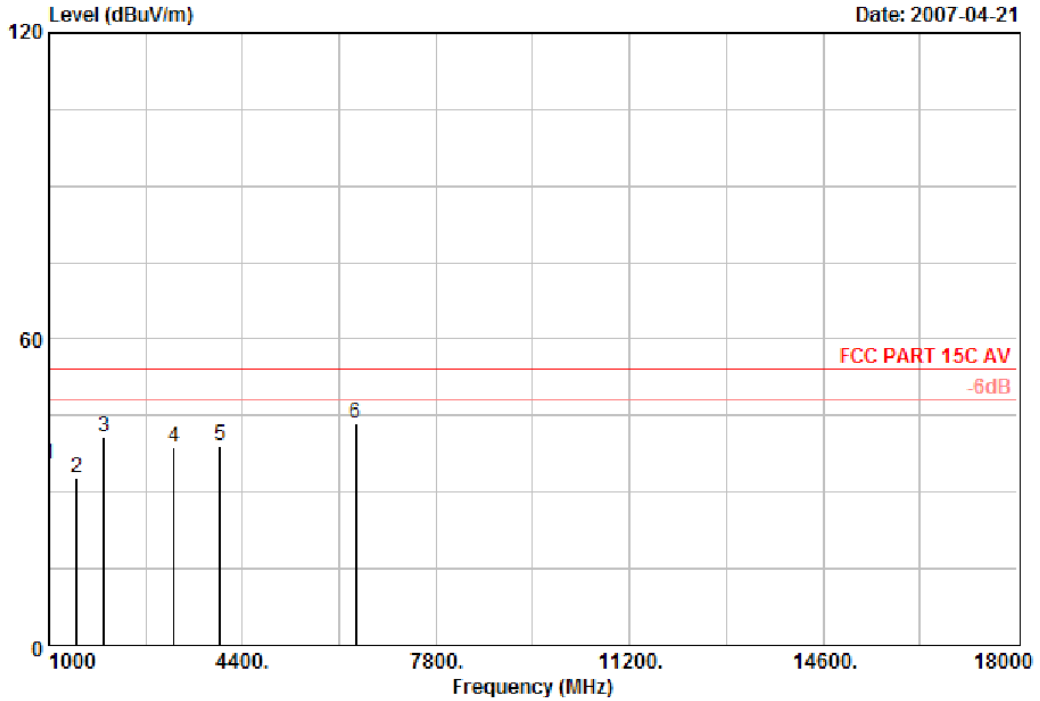
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 8 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 8  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2440MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1000.00	24.40	3.39	36.20	43.84	35.43	54.00	18.57	Average
2	1493.00	25.37	4.61	35.75	38.61	32.84	54.00	21.16	Average
3	1969.00	27.88	5.55	35.32	42.54	40.65	54.00	13.35	Average
4	3193.00	31.52	7.56	34.94	34.72	38.86	54.00	15.14	Average
5	4009.00	33.78	8.65	34.70	31.31	39.04	54.00	14.96	Average
6	6389.00	36.18	10.50	34.28	31.19	43.59	54.00	10.41	Average

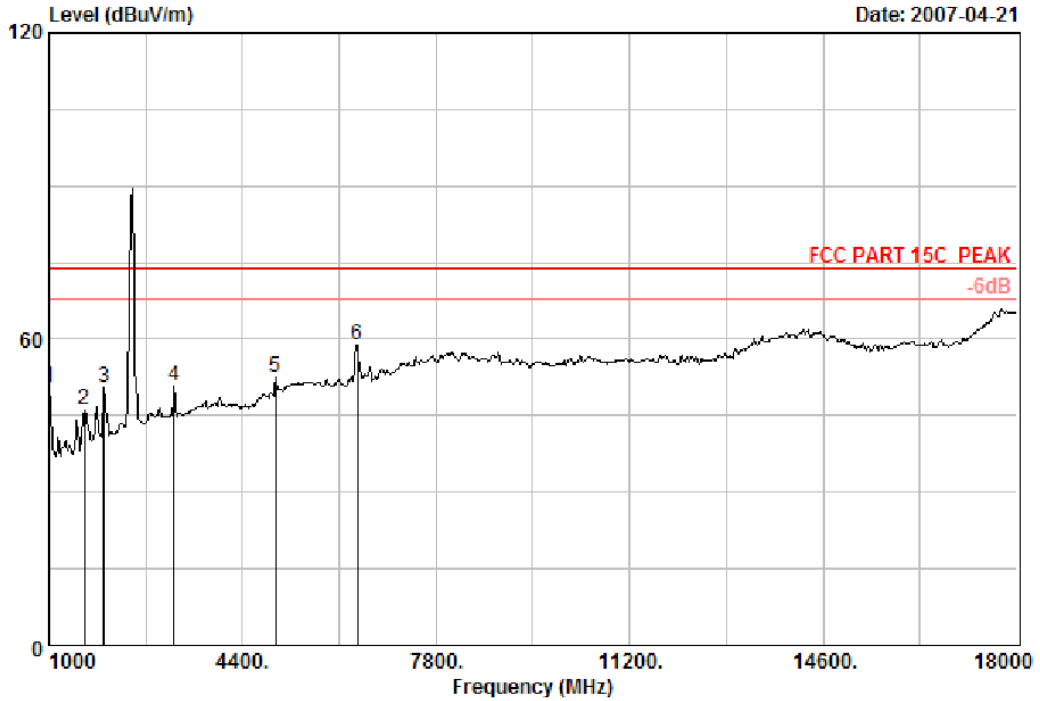
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 11 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 11  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2469MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1000.00	24.40	3.39	36.20	58.97	50.56	74.00	23.44	Peak
2	1629.00	26.09	4.89	35.64	50.90	46.24	74.00	27.76	Peak
3	1969.00	27.88	5.55	35.32	52.37	50.48	74.00	23.52	Peak
4	3193.00	31.52	7.56	34.94	46.63	50.77	74.00	23.23	Peak
5	4978.00	34.43	9.90	34.46	42.52	52.39	74.00	21.61	Peak
6	6423.00	36.24	10.52	34.28	46.22	58.70	74.00	15.30	Peak

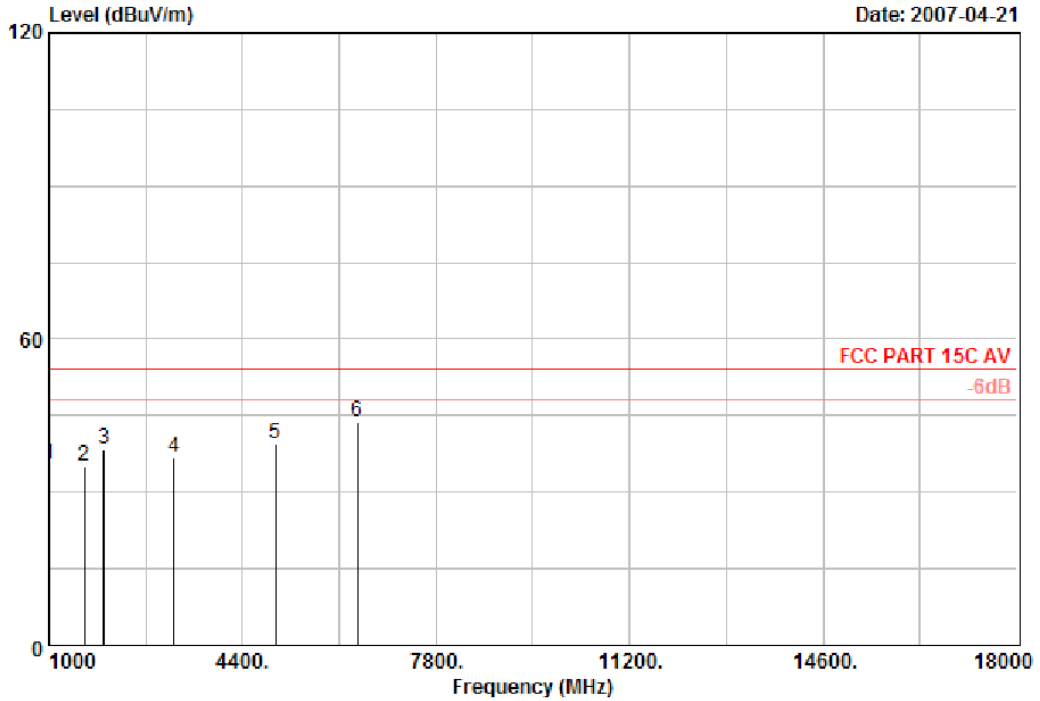
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 12 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 12  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2469MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1000.00	24.40	3.39	36.20	43.97	35.56	54.00	18.44	Average
2	1629.00	26.09	4.89	35.64	39.90	35.24	54.00	18.76	Average
3	1969.00	27.88	5.55	35.32	40.37	38.48	54.00	15.52	Average
4	3193.00	31.52	7.56	34.94	32.63	36.77	54.00	17.23	Average
5	4978.00	34.43	9.90	34.46	29.52	39.39	54.00	14.61	Average
6	6423.00	36.24	10.52	34.28	31.22	43.70	54.00	10.30	Average

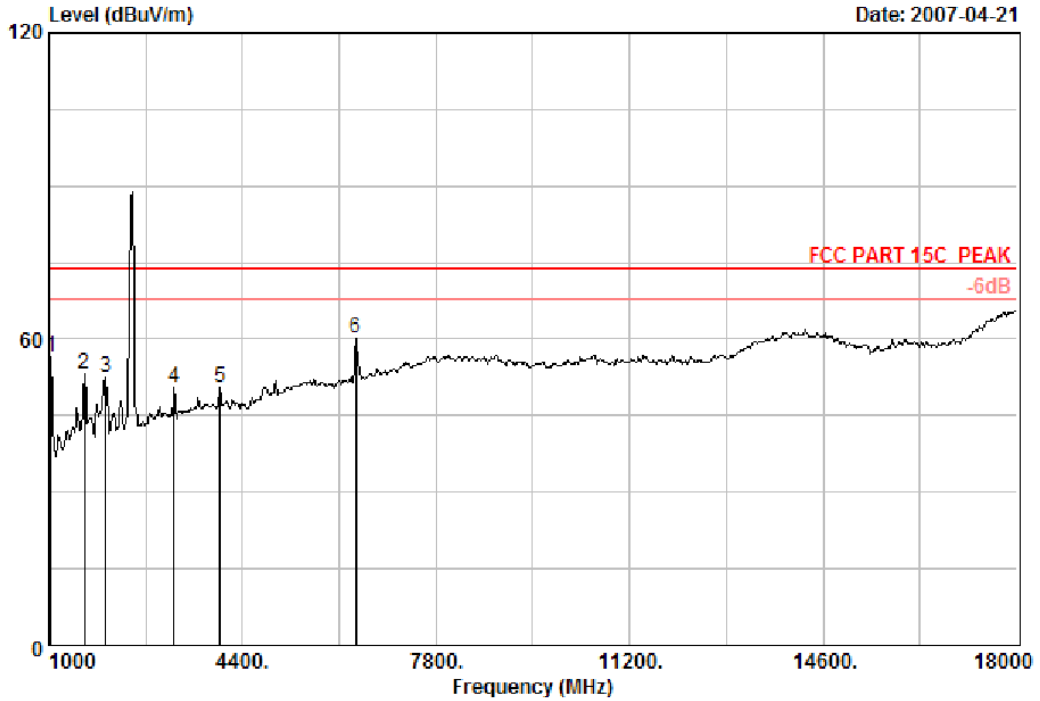
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



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Data: 9 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 9  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C PEAK  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2469MHz  
 : M/N:8829R

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1034.00	24.47	3.48	36.18	64.60	56.37	74.00	17.63	Peak
2	1629.00	26.09	4.89	35.64	57.70	53.04	74.00	20.96	Peak
3	2003.00	28.06	5.62	35.30	54.17	52.55	74.00	21.45	Peak
4	3193.00	31.52	7.56	34.94	46.24	50.38	74.00	23.62	Peak
5	4009.00	33.78	8.65	34.70	42.58	50.31	74.00	23.69	Peak
6	6389.00	36.18	10.50	34.28	47.65	60.05	74.00	13.95	Peak

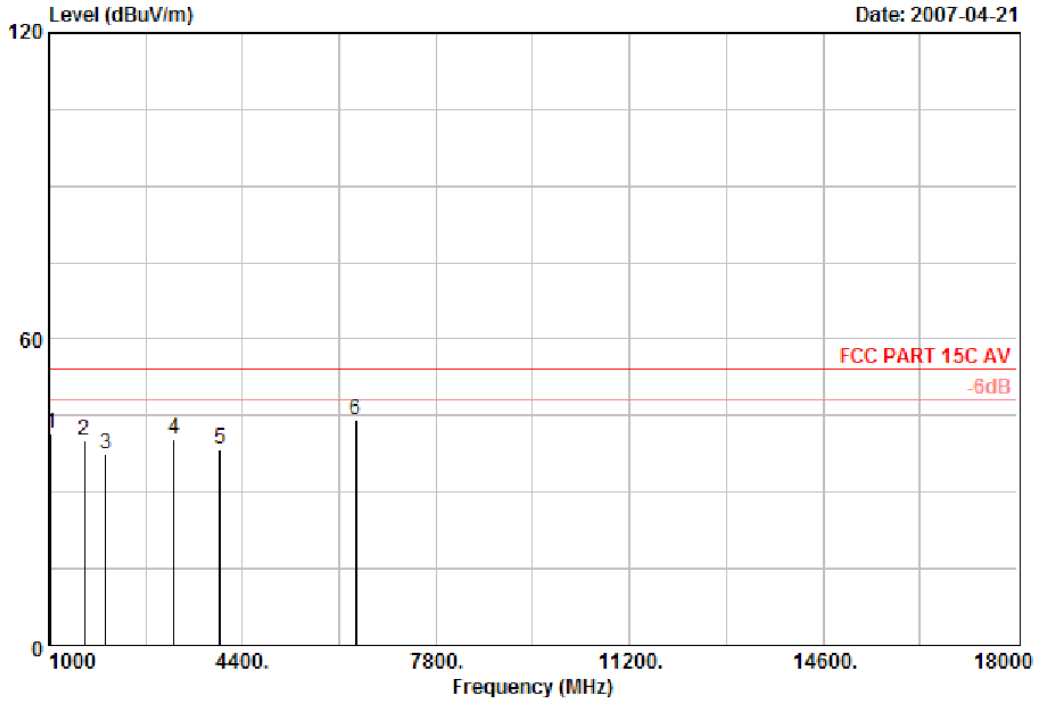
Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



No.6 Ke Feng Road,B1:ck 52,  
 ShenZhen Science & Industry Park  
 Noutou, ShenZhen, GuangDong, China  
 Tel:+86-755-26639495-7  
 Fax:+86-755-26632877  
 Postcode:518057

Data: 10 File: D:\2007 Report\MAC S7QH051R1-1.EMI (24)

Date: 2007-04-21



Site no. : Audix No.1 Chamber Data no. : 10  
 Dis. / Ant. : 3m 3115 FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2469MHz  
 : M/N:8829R

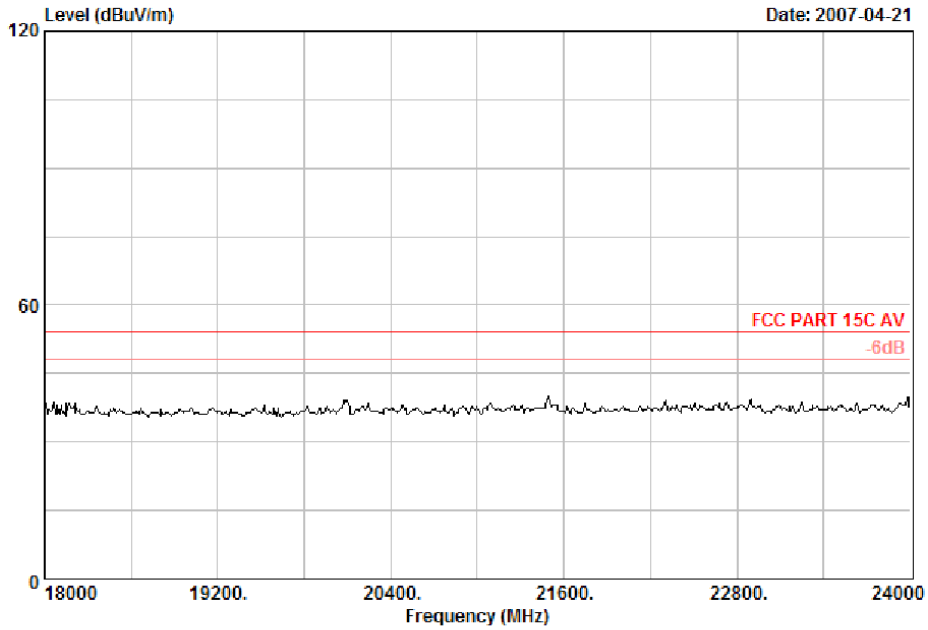
	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	1034.00	24.47	3.48	36.18	49.60	41.37	54.00	12.63	Average
2	1629.00	26.09	4.89	35.64	44.70	40.04	54.00	13.96	Average
3	2003.00	28.06	5.62	35.30	39.17	37.55	54.00	16.45	Average
4	3193.00	31.52	7.56	34.94	36.24	40.38	54.00	13.62	Average
5	4009.00	33.78	8.65	34.70	30.58	38.31	54.00	15.69	Average
6	6389.00	36.18	10.50	34.28	31.65	44.05	54.00	9.95	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.  
 2. The emission levels that are 20dB below the official limit are not reported.



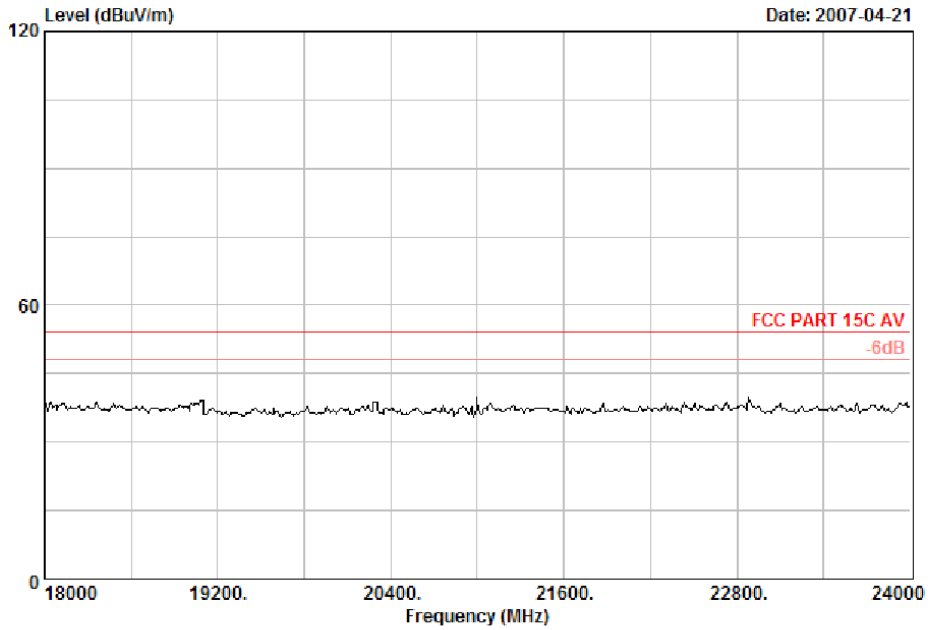
No.6 Ke Feng Road,B1:ck 52,  
 ShenZhen Science & Industry Park  
 Noutou, ShenZhen, GuangDong, China  
 Tel:+86-755-26639495-7  
 Fax:+86-755-26632877  
 Postcode:518057

Data: 13 File: D:\2007 Report\IMACS7QH051R1-1.EMI (24) Date: 2007-04-21



Site no. : 1# Chamber Data no. : 13  
 Dis. / Ant. : 3m 3115FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2410MHz  
 : M/N:8829R

Data: 14 File: D:\2007 Report\IMACS7QH051R1-1.EMI (24) Date: 2007-04-21

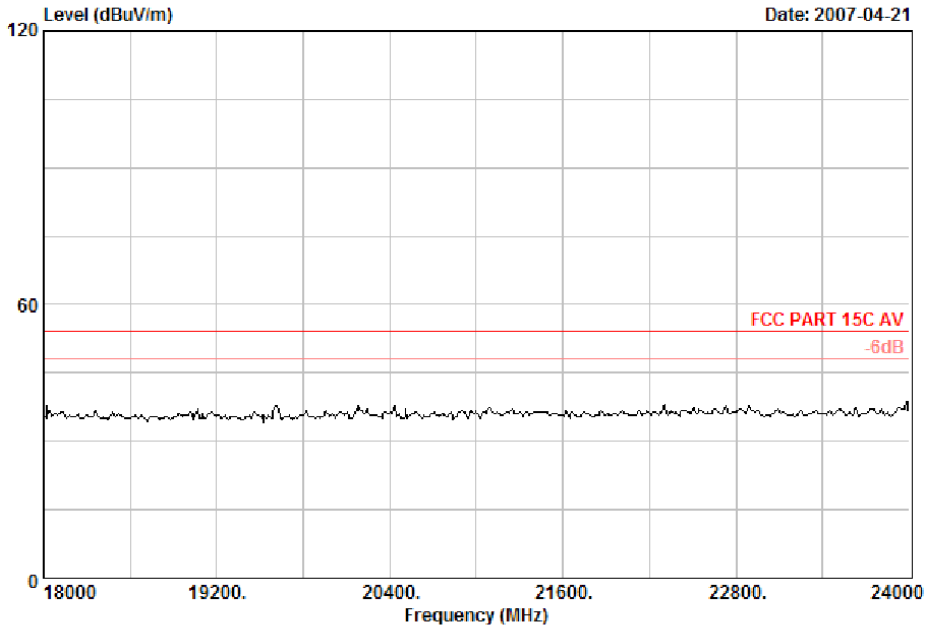


Site no. : 1# Chamber Data no. : 14  
 Dis. / Ant. : 3m 3115FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2410MHz  
 : M/N:8829R



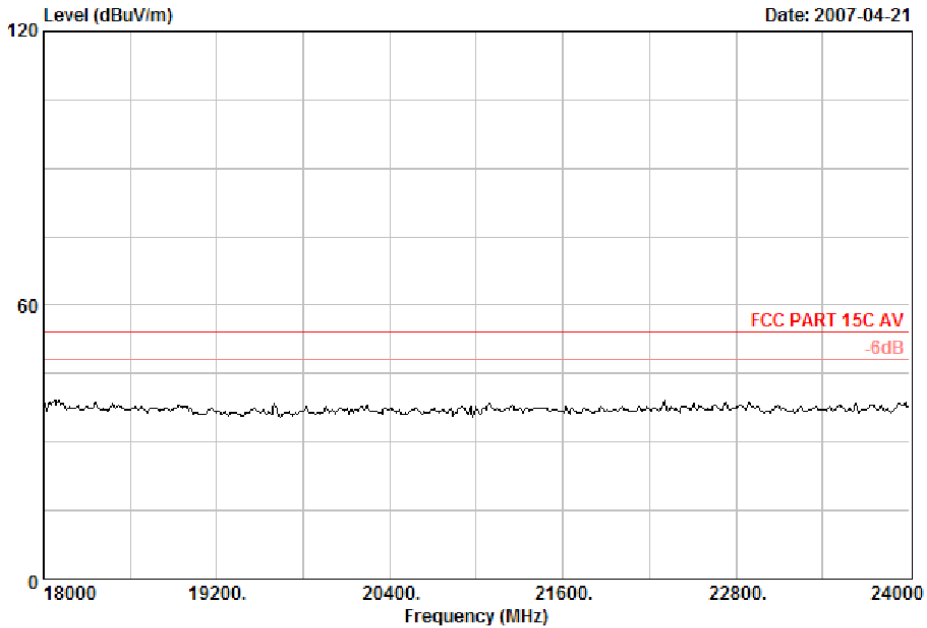
No.6 Ke Feng Road,B1:ck 52,  
 ShenZhen Science & Industry Park  
 Noutou, ShenZhen, GuangDong, China  
 Tel:+86-755-26639495-7  
 Fax:+86-755-26632877  
 Postcode:518057

Data: 15 File: D:\2007 Report\IMACS7QH051R1-1.EMI (24) Date: 2007-04-21



Site no. : 1# Chamber Data no. : 15  
 Dis. / Ant. : 3m 3115FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2440MHz  
 : M/N:8829R

Data: 16 File: D:\2007 Report\IMACS7QH051R1-1.EMI (24) Date: 2007-04-21



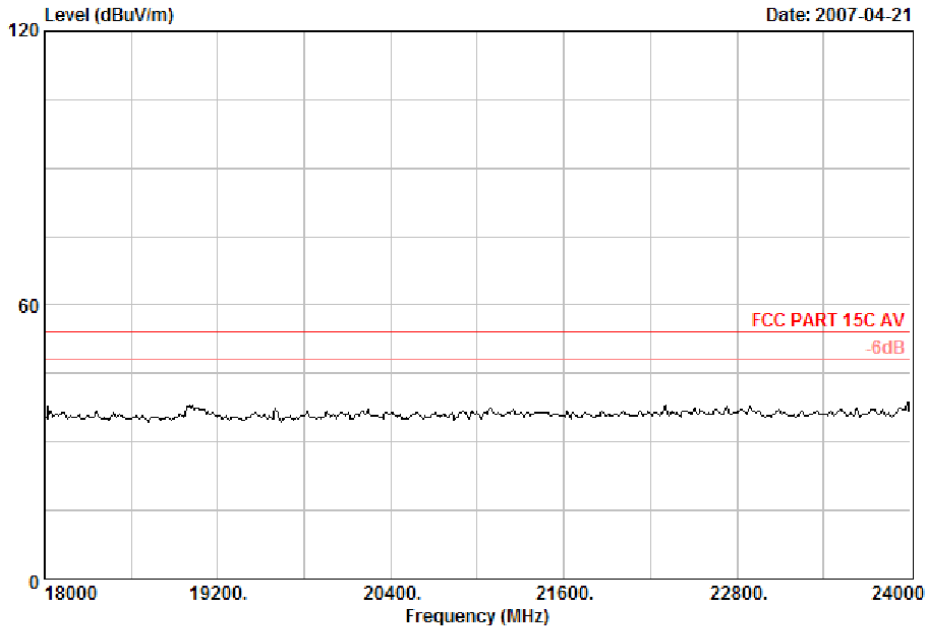
Site no. : 1# Chamber Data no. : 16  
 Dis. / Ant. : 3m 3115FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2440MHz  
 : M/N:8829R





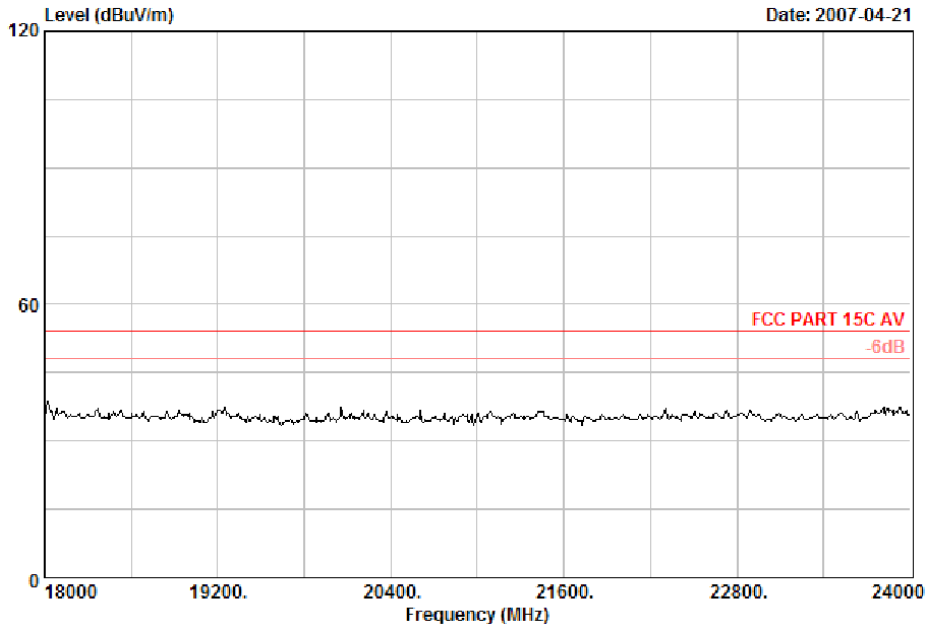
No.6 Ke Feng Road,B1:ck 52,  
 ShenZhen Science & Industry Park  
 Noutou, ShenZhen, GuangDong, China  
 Tel:+86-755-26639495-7  
 Fax:+86-755-26632877  
 Postcode:518057

Data: 17 File: D:\2007 Report\MACS7QH051R1-1.EMI (24) Date: 2007-04-21



Site no. : 1# Chamber Data no. : 17  
 Dis. / Ant. : 3m 3115FACTOR Ant. pol. : HORIZONTAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2469MHz  
 : M/N:8829R

Data: 18 File: D:\2007 Report\MACS7QH051R1-1.EMI (24) Date: 2007-04-21



Site no. : 1# Chamber Data no. : 18  
 Dis. / Ant. : 3m 3115FACTOR Ant. pol. : VERTICAL  
 Limit : FCC PART 15C AV  
 Env. / Ins. : 25°C/55% E4407B Engineer : Skyle  
 EUT : Wireless ThumbPad Receiver for PS3  
 Power Rating : DC 5V From PS3 Input AC 120V/60Hz  
 Test Mode : TX 2469MHz  
 : M/N:8829R

## 5. CARRIER FREQUENCY SEPARATION TEST

### 5.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 15, 06	1 Year
2.	Amp	HP	8449B	3008A00863	May 15, 06	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 15, 06	1 Year

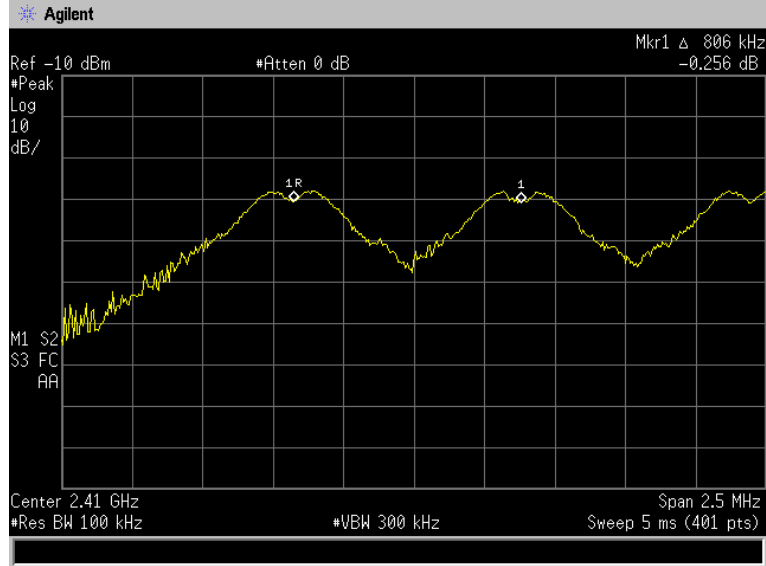
### 5.2. Test Information

EUT:	Wireless ThumbPad Receiver for PS3
M/N:	8829R
Test Date:	Apr.09~28, 2007
Ambient Temperature:	24°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping on
Test Frequency:	Low: 2410MHz Mid: 2440MHz High: 2469MHz
Test By:	Skyle

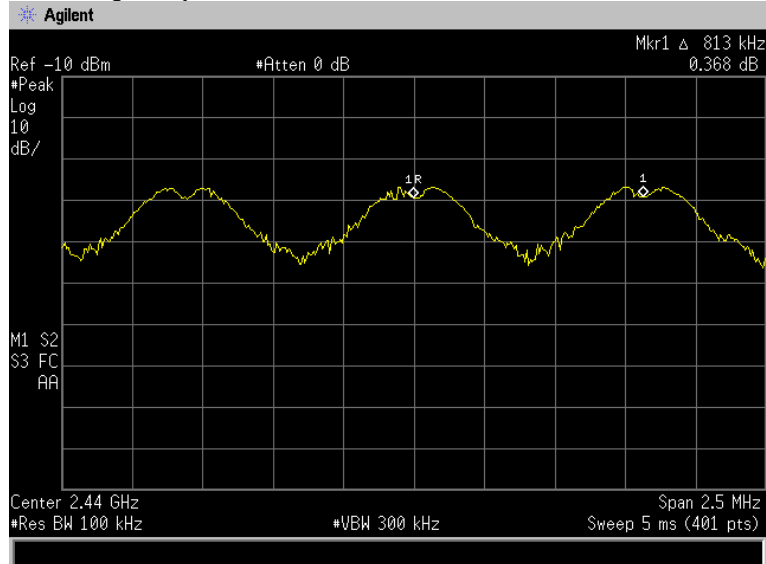
### 5.3. Test Results

CH	Channel separation (kHz)	Limit	Conclusion
(Low)	806	>the 20dB Bandwidth or 25kHz (whichever is greater)	PASS
(Mid)	813	>the 20dB Bandwidth or 25kHz (whichever is greater)	PASS
(High)	813	>the 20dB Bandwidth or 25kHz (whichever is greater)	PASS

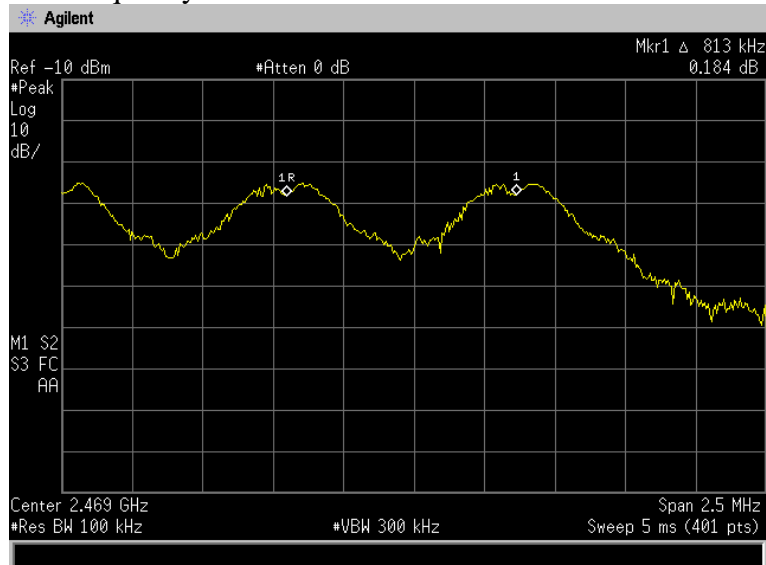
Test Frequency: 2410MHz



Test Frequency: 2440MHz



Test Frequency: 2469MHz



## 6. 20 DB BANDWIDTH TEST

### 6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 15, 06	1 Year
2.	Amp	HP	8449B	3008A00863	May 15, 06	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 15, 06	1 Year

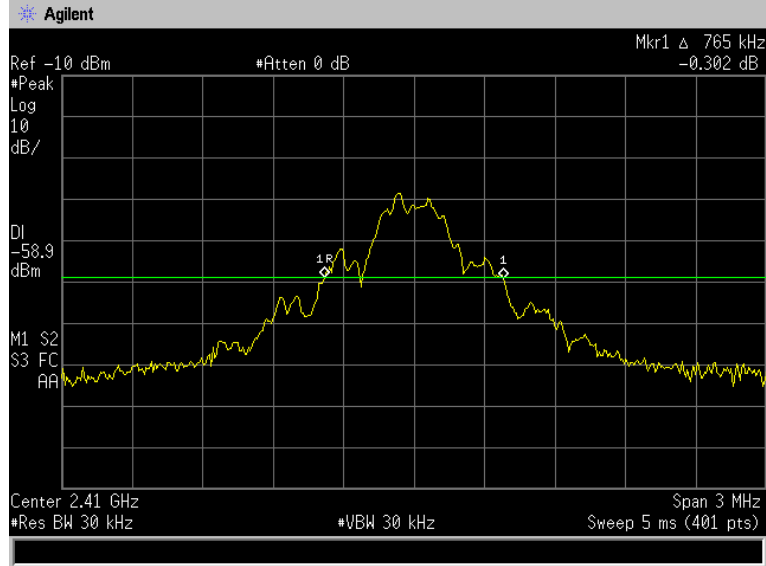
### 6.2. Test Information

EUT:	Wireless ThumbPad Receiver for PS3
M/N:	8829R
Test Date:	Apr.09~28, 2007
Ambient Temperature:	23°C
Relative Humidity:	50%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping off
Test Frequency:	Low: 2410MHz Mid: 2440MHz High: 2469MHz
Test By:	Skyle

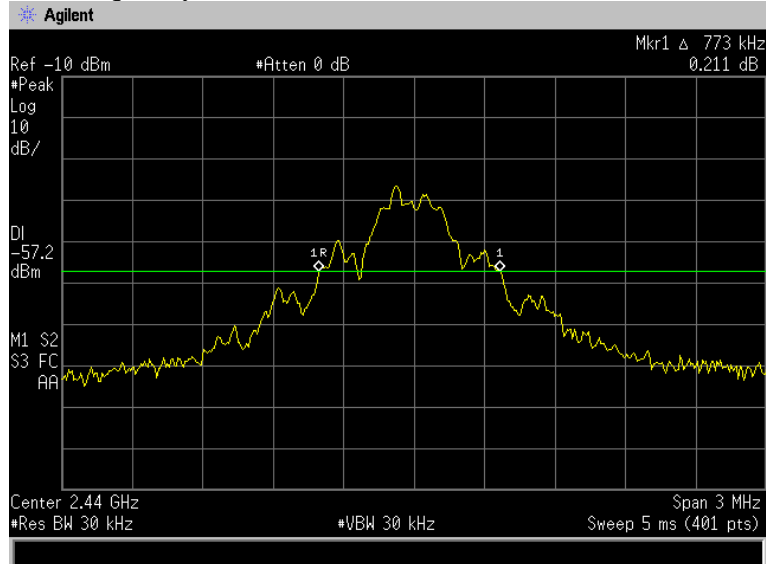
### 6.3. Test Results

CH	20dB Bandwidth (kHz)	Limit (kHz)	Conclusion
(Low)	765	---	PASS
(Mid)	773	---	PASS
(High)	773	---	PASS

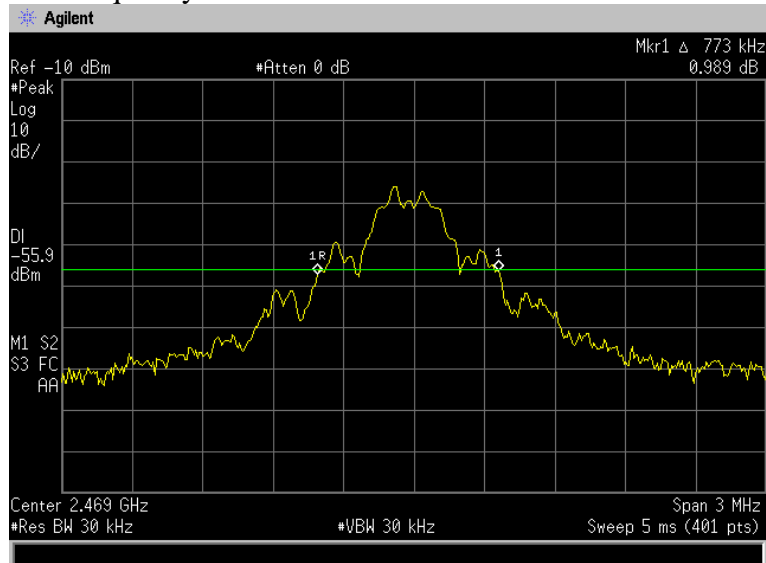
Test Frequency: 2410MHz



Test Frequency: 2440MHz



Test Frequency: 2469MHz



## 7. NUMBER OF HOPPING FREQUENCY TEST

### 7.1. Test Equipment

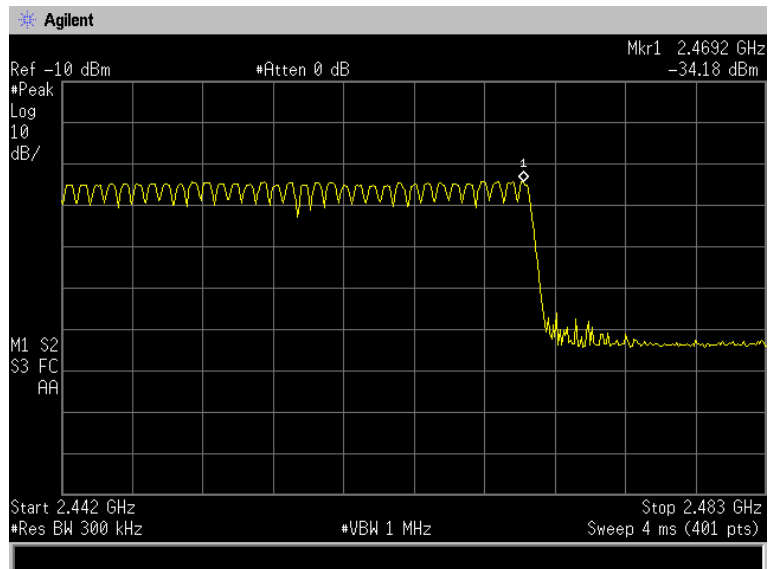
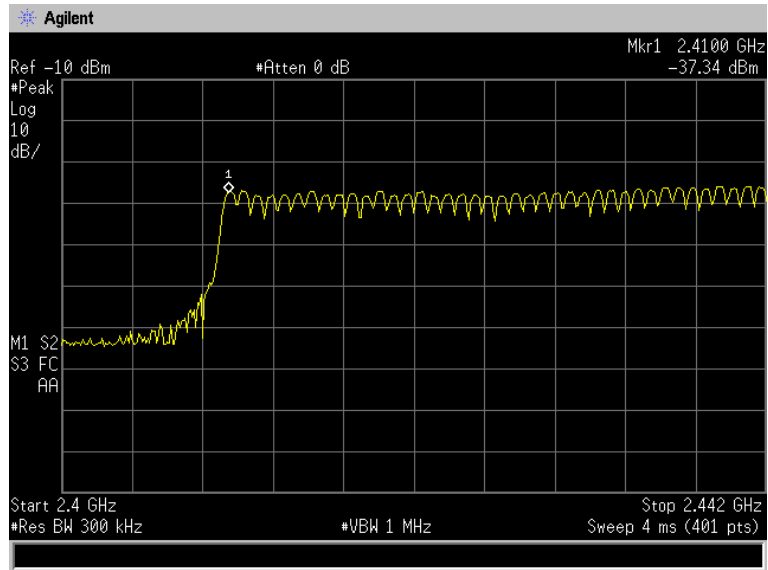
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 15, 06	1 Year
2.	Amp	HP	8449B	3008A00863	May 15, 06	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 15, 06	1 Year

### 7.2. Test Information

EUT:	Wireless ThumbPad Receiver for PS3
M/N:	8829R
Test Date:	Apr.09, 2007
Ambient Temperature:	22°C
Relative Humidity:	56%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping on
Test Frequency:	From 2410MHz to 2469MHz
Test By:	Skyle

### 7.3. Test Results

Number of channel	Limit	Conclusion
74	>=15	PASS



## 8. DWELL TIME TEST

### 8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 15, 06	1 Year
2.	Amp	HP	8449B	3008A00863	May 15, 06	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 15, 06	1 Year

### 8.2. Test Information

EUT:	Wireless ThumbPad Receiver for PS3
M/N:	8829R
Test Date:	Apr.12, 2007
Ambient Temperature:	23°C
Relative Humidity:	55%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping off
Test Frequency:	Normal
Test By:	Skyle

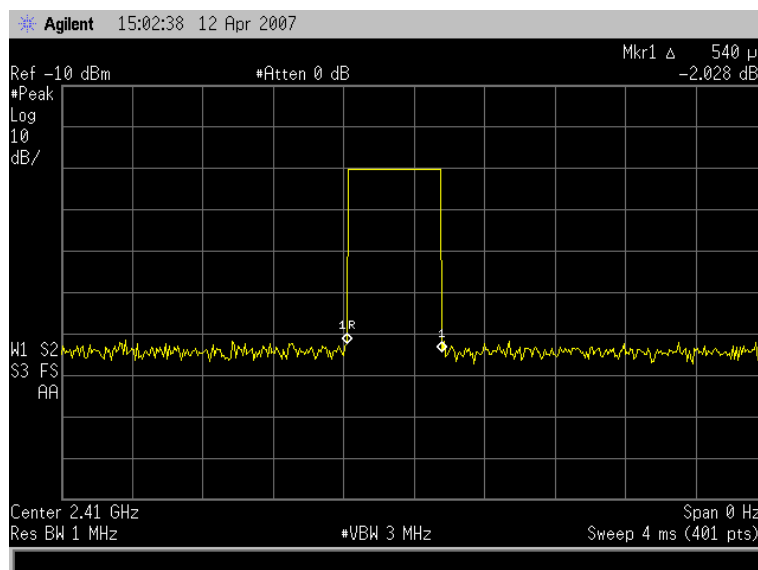
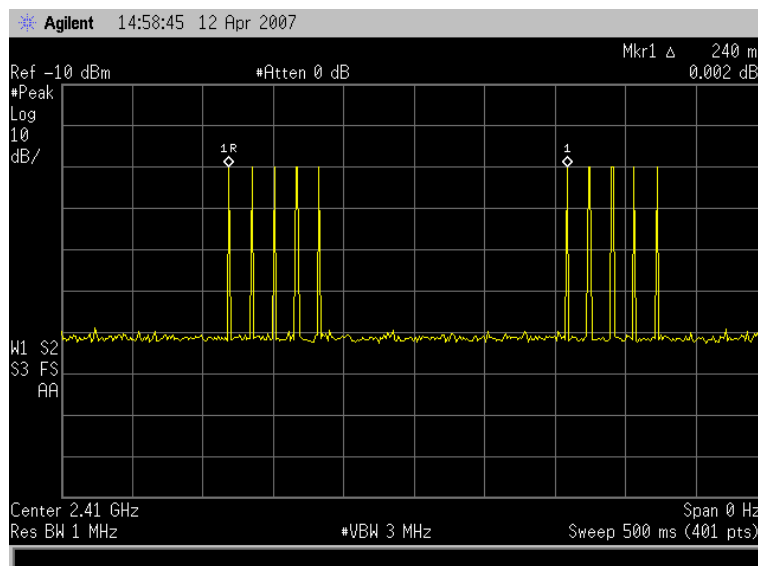
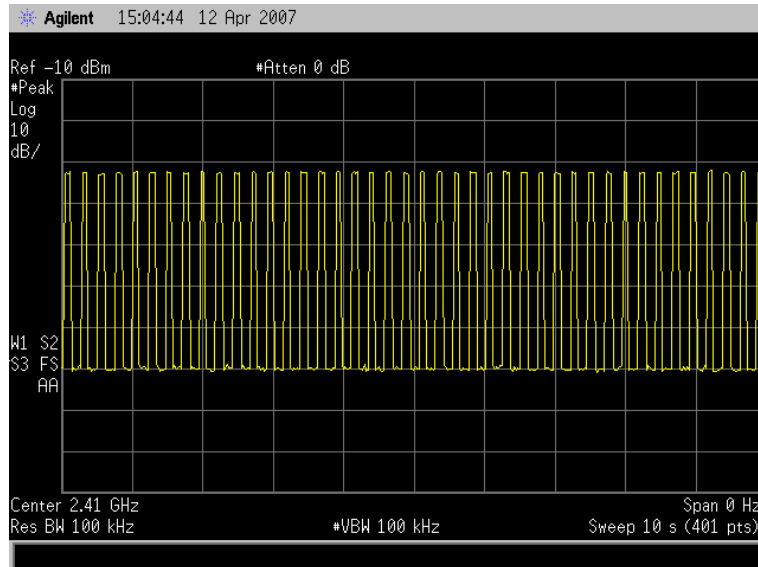
### 8.3. Test Results

This system hopping 42 hops in any 10s, and for each hop it transmit 5 pulses, each pulse dwell 540μs, so the dwell time is:

$$42/10*74*0.4*5*540*10^{-6}=335.7\text{ms}$$

dwell time	Limit	Conclusion
335.7ms	<400ms	PASS





## 9. MAXIMUM PEAK OUTPUT POWER TEST

### 9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 15, 06	1 Year
2.	Amp	HP	8449B	3008A00863	May 15, 06	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 15, 06	1 Year

### 9.2. Test Information

EUT:	Wireless ThumbPad Receiver for PS3
M/N:	8829R
Test Date:	Apr.30, 2007
Ambient Temperature:	24°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping off
Test Frequency:	Low: 2410MHz Mid: 2440MHz High: 2469MHz
Test By:	Skyle

### 9.3. Test Results

CH	Freq (MHz)	Ant. pol	Ant. Factor (dB/m)	Cable loss (dB)	Amp Factor (dB)	Reading (dBμV)	Emission Level (dBμV)	Result (dBm)	Margin	Limits	
										(mW)	(dBm)
Low	2410.2	H	29.03	6.20	35.18	95.82	95.87	0.64	20.33	125	20.97
	2410.2	V	29.03	6.20	35.18	88.84	88.89	-6.34	27.31	125	20.97
Mid	2440.0	H	29.11	6.25	35.17	96.15	96.34	1.11	19.86	125	20.97
	2440.0	V	29.11	6.25	35.17	84.95	85.14	-10.09	31.06	125	20.97
High	2469.2	H	29.19	6.30	35.16	95.06	95.39	0.16	20.81	125	20.97
	2469.2	V	29.19	6.30	35.16	88.36	88.69	-6.54	27.51	125	20.97

Calculation Result = 30 + 10log(TP)

TP= (Emission Level \* D)<sup>2</sup> / 30 \* G

(This formula described in IC RSS-210 clause 11, where D is the distance in meters between the two antennas, TP is transmitter output power in watts and G is the antenna numerical gain referenced to isotropic gain, in here G = 1 supplied by customer)

Emission Level = Antenna Factor + Cable Loss – Amp Factor + Reading.

(RBW=1MHz, VBW=1MHz peak detector.)

## 10.BAND EDGE COMPLIANCE TEST

### 10.1.Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 15, 06	1 Year
2.	Amp	HP	8449B	3008A00863	May 15, 06	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jan. 23, 07	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 15, 06	1 Year

### 10.2.Test Information

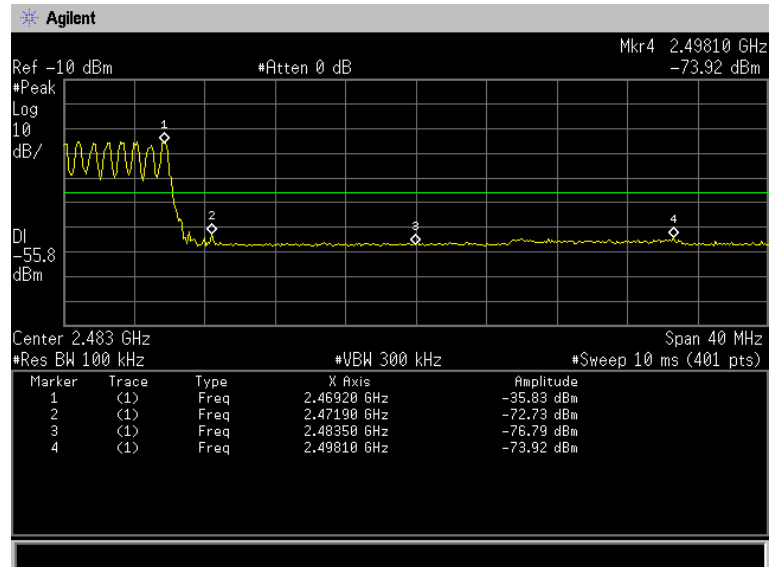
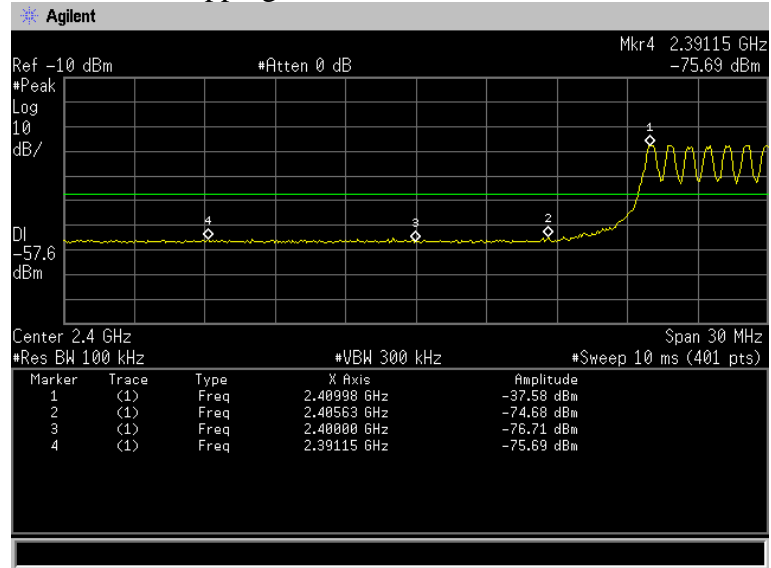
EUT:	Wireless ThumbPad Receiver for PS3
M/N:	8829R
Test Date:	Apr.09, 2007
Ambient Temperature:	24°C
Relative Humidity:	54%
Test standard:	FCC PART 15C: 15.247
Test mode:	Transmitting, Hopping on and Hopping off
Test Frequency:	Low: 2410MHz High: 2469MHz
Test By:	Skyle

### 10.3.Test Results

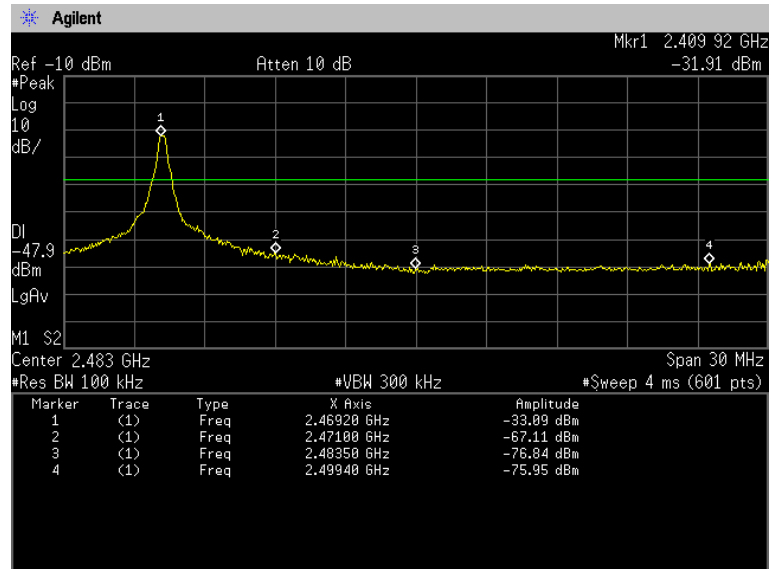
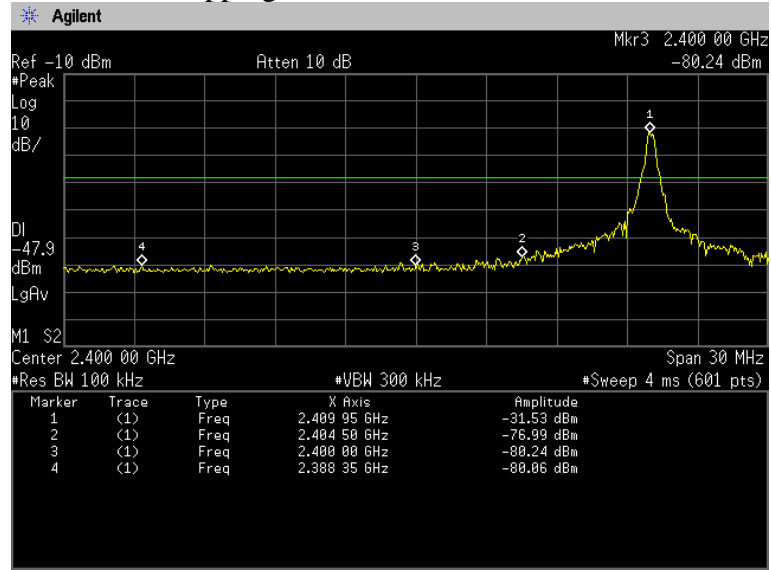
**PASS.**

The testing data was attached in the next pages.

Test Mode: Hopping on



Test Mode: Hopping off



## 11.MPE ESTIMATION

### 11.1.Limit for General Population / Uncontrolled Exposures

Frequency	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
300MHz~1.5GHz	F/1500	30
1.5GHz~100GHz	1.0	30

Frequency (MHz)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
2410	1.0	30
2440	1.0	30
2469	1.0	30

Note: F = Frequency in MHz

### 11.2.Estimation Result

CH	Frequency (MHz)	Peak output power (dBm)	Antenna gain (dBi)	Antenna gain (Linear)
Low	2410	0.64	0	1
Mid	2440	1.11	0	1
High	2469	0.16	0	1

CH	Frequency (MHz)	Peak output power (mW)	Power density at 20cm (mW/ cm <sup>2</sup> )
Low	2410	1.159	$2.31 \times 10^{-4}$
Mid	2440	1.291	$2.57 \times 10^{-4}$
High	2469	1.038	$2.06 \times 10^{-4}$

## **12.DEVIATION TO TEST SPECIFICATIONS**

[ NONE]

### 13.PHOTOGRAPH

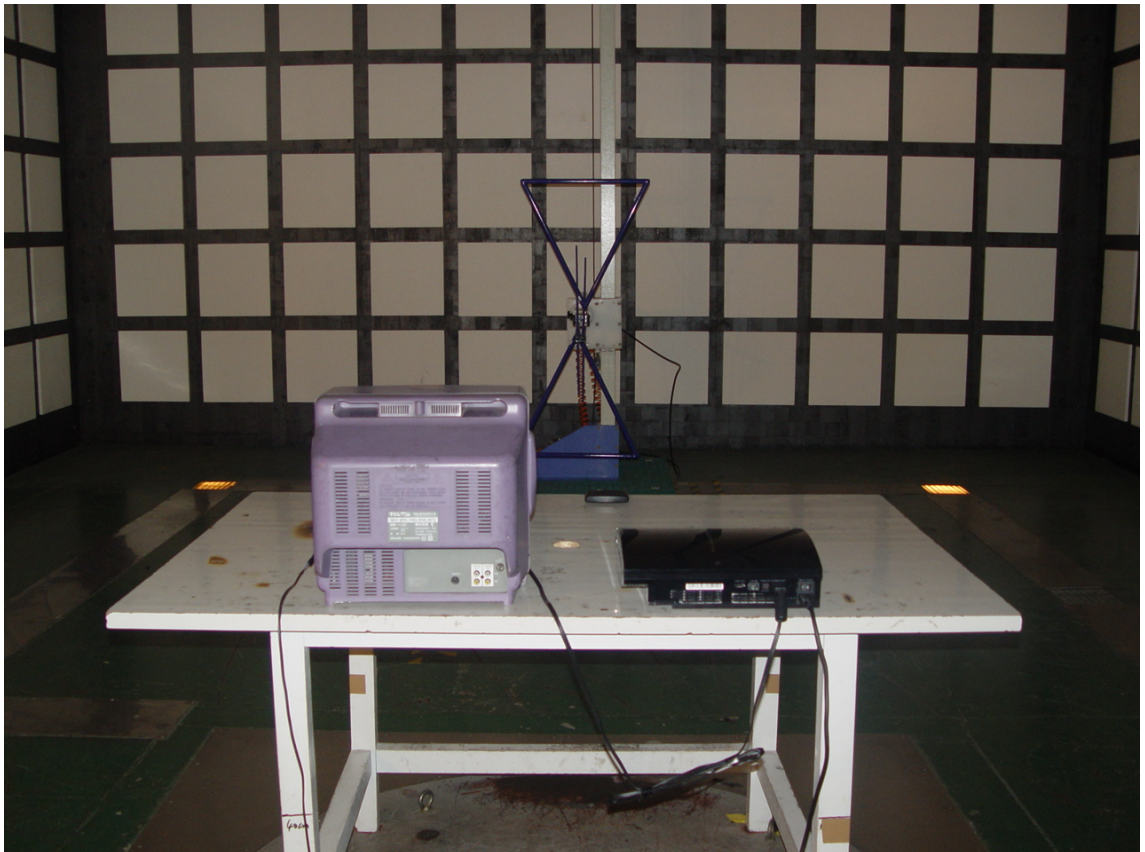
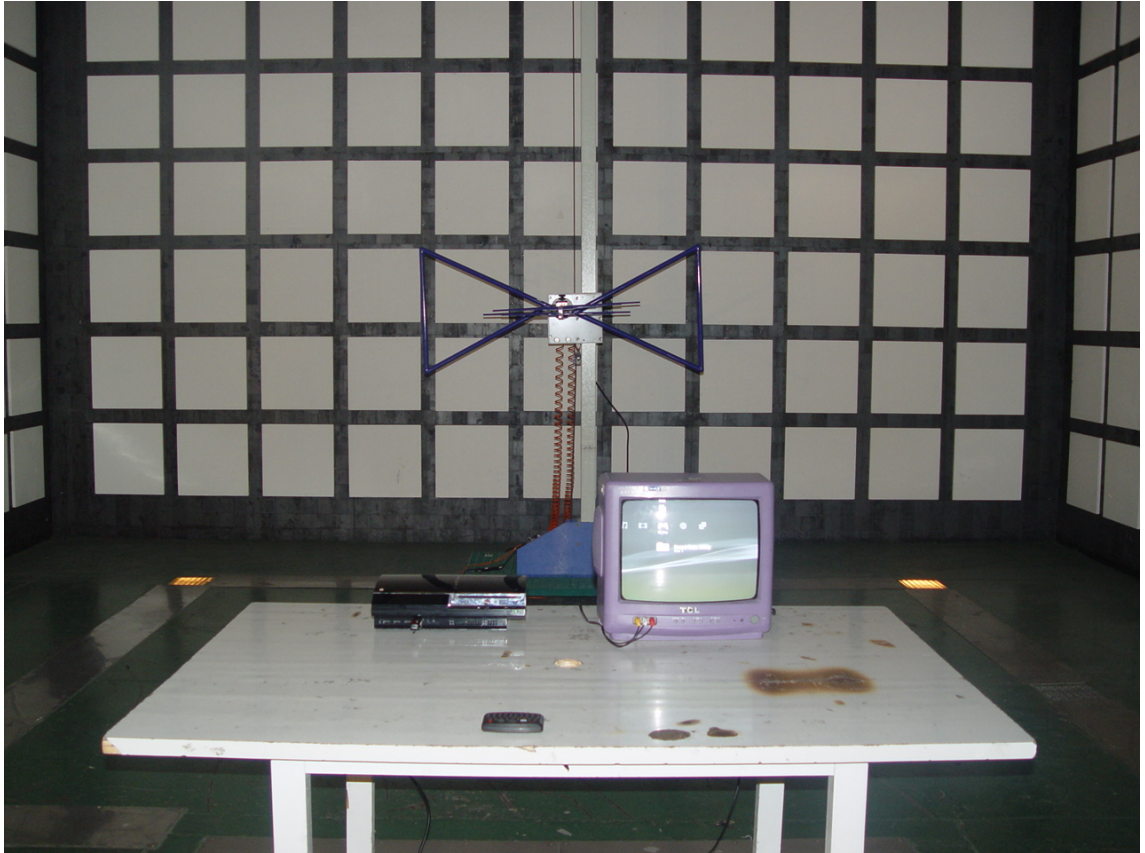
#### 13.1.Photos of Power Line Conducted Emission Test





### 13.2.Photos of Radiated Emission Test

30-1000MHz





Above 1000MHz

