

APPLICATION FOR CERTIFICATION  
On Behalf of

Mad Catz Interactive Asia Limited

Lynx Wireless Controller For PS2

Model Number: 8246B

Prepared for : Mad Catz Interactive Asia Limited  
Unit 1717-19, 17/F., Grand Central Plaza,  
Tower 2, 138 Shatin Rural Committee Road,  
Shatin, N.T., Hong Kong

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Report Number : ACS-F04040  
Date of Test : Feb. 16~20, 2004  
Date of Report : Feb. 25, 2004

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APPENDIX I           (25 pages)

# TEST REPORT DECLARATION

Applicant : Mad Catz Interactive Asia Limited  
 Manufacturer : Berway Technology Ltd.  
 EUT Description : Lynx Wireless Controller For PS2  
 (A) MODEL NO. : 8246B  
 (B) SERIAL NO. : F2004022501  
 (C) POWER SUPPLY : DC 8V

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Aug 2003.

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.

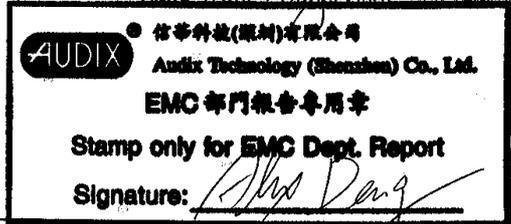
The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

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.

This report must not be used by the applicant to claim product endorsement by NVLAP or any agency of the U.S. Government.

Date of Test : Feb. 16~20, 2004  
 \_\_\_\_\_  
*Jane Dai*  
 \_\_\_\_\_  
 Jane Dai / Assistant

Prepared by : \_\_\_\_\_  
 \_\_\_\_\_  
*Lake Wang*  
 \_\_\_\_\_  
 Lake Wang / Supervisor

Reviewer : \_\_\_\_\_  
  
 \_\_\_\_\_  
 Alex Deng / Assistant Manager

Approved & Authorized Signer :

Name of the Representative of the Responsible Party : \_\_\_\_\_

Signature : \_\_\_\_\_

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Description : Lynx Wireless Controller For PS2

Model Number : 8246B

Applicant : Mad Catz Interactive Asia Limited  
Unit 1717-19, 17/F., Grand Central Plaza,  
Tower 2, 138 Shatin Rural Committee Road,  
Shatin, N.T., Hong Kong

Manufacturer : Berway Technology Ltd.  
Unit 1801-02, 18/F., No.88 Kwai Cheong Road,  
Kwai Chung, N.T., Hong Kong

Date of Test : Feb. 16~20, 2004

### 1.2. Tested Supporting System Details

PS2 : Manufacturer: SONY  
M/N: SCPH-39004

Device : Manufacturer: Berway  
M/N: 8246B

### 1.3. Test Facility

#### Site Description

3m Anechoic Chamber : Certificated by FCC, USA  
Aug. 15, 2003

EMC Lab. : Certificated by DATech, German  
Feb. 02, 2004

Certificated by NVLAP, USA  
NVLAP Code: 200372-0  
Mar. 31, 2003

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

### 1.4. Test Uncertainty

Conducted Emission Uncertainty =  $\pm 2.66\text{dB}$

Radiated Emission Uncertainty =  $\pm 4.26\text{dB}$

## **2. POWER LINE CONDUCTED EMISSION TEST**

According to Paragraph (f) of FCC Part 15 section 15.247, Tests to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

### 3. RADIATED EMISSION TEST

#### 3.1. Test Equipment

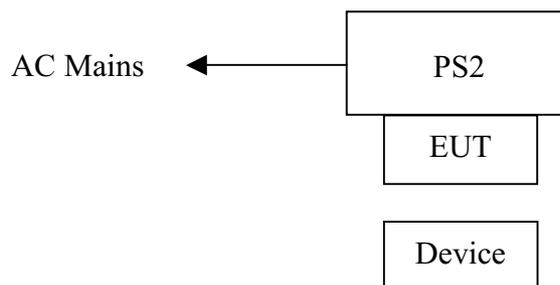
The following test equipments are used during the radiated emission test:

##### 3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
	EMI Spectrum	HP	85422E	3625A00181	May.31, 03	1 Year
1.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May.31, 03	1 Year
2.	Amplifier	HP	8447D	2944A07794	Sep.18, 03	1/2 Year
3.	Bilog Antenna	Schaffner	CBL6111C	2598	Jan. 13, 04	1 Year
4.	PC	N/A	586ATX3	N/A	N/A	N/A
5.	Printer	HP	Laserjet6P	SGCF019673	N/A	N/A
6.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Feb.01, 04	1/2 Year
7.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Feb.01, 04	1/2 Year
8.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Feb.01, 04	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Feb.01, 04	1/2 Year
10.	Coaxial Switch	Anritsu	MP59B	M73989	Nov.28, 03	1/2 Year
11.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
12.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
13.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year

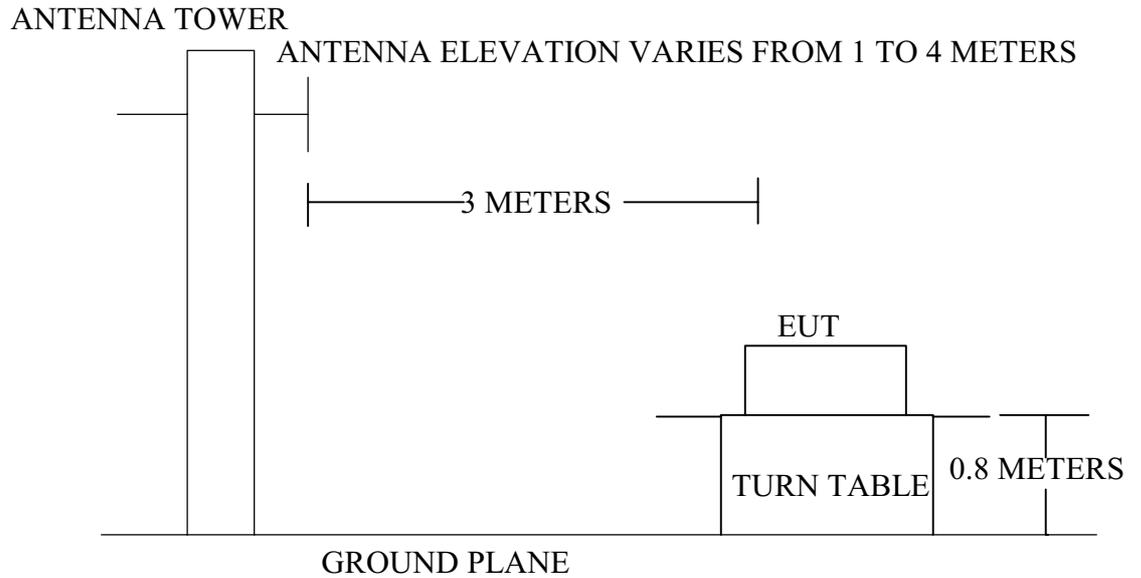
#### 3.2. Block Diagram of Test Setup

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



*(EUT: Lynx Wireless Controller For PS2)*

3.2.2.In Anechoic Chamber



3.3.Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/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 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	

- Remark :
- (1) Emission level (dB)μV = 20 log Emission level μV/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.

3.4.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.

3.4.1.Lynx Wireless Controller For PS2 (EUT)

Model Number : 8246B  
 Serial Number : F2004022501  
 Manufacturer : Berway Technology Ltd.

3.4.2.Support Equipment : As Tested Supporting System Detail, in Section 1.2.

### 3.5.Operating Condition of EUT

1. Setup the EUT as shown in Section 3.2..
2. Let the EUT work in test mode (Host CH0 Tx/Host CH39 Tx/Host CH79 Tx/  
Host CH0 Rx/Host CH39 Rx/Host CH79 Rx) and test it.

### 3.6.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.

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

The frequency range from 30MHz to 24.44GHz is checked.

The test mode (Host CH0 Tx/Host CH39 Tx/Host CH79 Tx/ Host CH0 Rx/  
Host CH39 Rx/Host CH79 Rx) is tested in Anechoic Chamber, and all the scanning waveforms are attached in Appendix I.

### 3.7.Radiated Emission Test Result

**PASS.**

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

Date of Test :	<u>Feb. 20, 2004</u>	Temperature :	<u>24°C</u>
EUT :	<u>Lynx Wireless Controller For PS2</u>	Humidity :	<u>56%</u>
Model No. :	<u>8246B</u>	Test Mode :	<u>Host CH0 Tx</u>
Test Engineer:	<u>Richzhy</u>		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB $\mu$ V	Emission Level Horizontal dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
259.890	13.16	3.47	19.62	36.24	-9.76	46.00
295.780	13.15	3.73	20.39	37.27	-8.73	46.00
373.380	15.95	4.35	16.95	37.25	-8.75	46.00
<b>771.080</b>	<b>21.52</b>	<b>6.89</b>	<b>10.47</b>	<b>38.88</b>	<b>-7.12</b>	<b>46.00</b>
843.830	22.21	7.31	7.65	37.18	-8.82	46.00
882.630	22.13	7.28	6.77	36.18	-9.82	46.00

Remark: 1. All readings are Quasi-Peak values.

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer :

lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH0 Tx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB $\mu$ V	Emission Level Vertical dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
65.890	9.63	1.59	14.45	25.68	-14.32	40.00
119.240	11.18	2.23	12.44	25.85	-17.65	43.50
407.330	16.24	4.63	10.90	31.78	-14.22	46.00
552.830	20.41	6.05	11.29	37.75	-8.25	46.00
<b>589.690</b>	<b>19.26</b>	<b>6.08</b>	<b>12.98</b>	<b>38.31</b>	<b>-7.69</b>	<b>46.00</b>
773.990	21.61	6.78	7.58	35.97	-10.03	46.00

Remark: 1. All readings are Quasi-Peak values.

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH39 Tx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB $\mu$ V	Emission Level Horizontal dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
131.850	12.13	2.33	11.66	26.12	-17.38	43.50
279.290	12.88	3.62	22.62	39.12	-6.88	46.00
305.480	13.58	3.85	21.31	38.74	-7.26	46.00
<b>439.340</b>	<b>16.87</b>	<b>4.91</b>	<b>17.69</b>	<b>39.47</b>	<b>-6.53</b>	<b>46.00</b>
589.690	18.94	6.08	12.74	37.76	-8.24	46.00
777.870	21.62	7.20	9.93	38.75	-7.25	46.00

- Remark: 1. All readings are Quasi-Peak values.  
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading  
 3. The worst emission was detected at 439.340MHz with corrected signal level of 39.47dB $\mu$ V/m(Limit is 46.00 dB $\mu$ V/m) when the antenna was at horizontal polarization and at 1.2m high and the turn table was at 0°.  
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Reviewer : lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH39 Tx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB $\mu$ V	Emission Level Vertical dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
113.420	11.53	2.13	12.54	26.20	-17.30	43.50
305.480	13.49	3.85	13.20	30.54	-15.46	46.00
424.790	16.79	4.79	13.12	34.70	-11.30	46.00
<b>588.720</b>	<b>19.13</b>	<b>6.03</b>	<b>12.57</b>	<b>37.73</b>	<b>-8.27</b>	<b>46.00</b>
777.870	21.59	7.20	7.97	36.76	-9.24	46.00
882.630	23.45	7.28	6.40	37.13	-8.87	46.00

Remark: 1. All readings are Quasi-Peak values.

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

3. The worst emission was detected at 588.720MHz with corrected signal level of 37.73dB $\mu$ V/m(Limit is 46.00 dB $\mu$ V/m) when the antenna was at vertical polarization and at 1.2m high and the turn table was at 180 ° .

4. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH79 Tx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB $\mu$ V	Emission Level Horizontal dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
259.890	13.16	3.47	19.31	35.93	-10.07	46.00
284.140	12.87	3.62	20.30	36.79	-9.21	46.00
307.420	13.60	3.85	19.49	36.93	-9.07	46.00
<b>371.440</b>	<b>15.80</b>	<b>4.37</b>	<b>17.70</b>	<b>37.88</b>	<b>-8.12</b>	<b>46.00</b>
443.220	16.80	4.86	13.99	35.65	-10.35	46.00
775.930	21.59	7.11	6.54	35.24	-10.76	46.00

Remark: 1. All readings are Quasi-Peak values.

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH79 Tx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB $\mu$ V	Emission Level Vertical dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
63.950	8.40	1.57	15.16	25.13	-14.87	40.00
305.480	13.49	3.85	11.42	28.75	-17.25	46.00
<b>552.830</b>	<b>20.41</b>	<b>6.05</b>	<b>11.45</b>	<b>37.91</b>	<b>-8.10</b>	<b>46.00</b>
588.720	19.13	6.03	11.77	36.93	-9.07	46.00
773.990	21.61	6.78	8.14	36.53	-9.47	46.00
882.630	23.45	7.28	5.59	36.32	-9.68	46.00

- Remark: 1. All readings are Quasi-Peak values.  
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading  
 3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH0 Rx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB $\mu$ V	Emission Level Horizontal dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
259.890	13.16	3.47	22.08	38.70	-7.30	46.00
279.290	12.88	3.62	22.21	38.71	-7.29	46.00
305.480	13.58	3.85	21.13	38.56	-7.44	46.00
373.380	15.95	4.35	18.42	38.72	-7.28	46.00
428.670	17.06	4.73	17.36	39.16	-6.84	46.00
<b>443.220</b>	<b>16.80</b>	<b>4.86</b>	<b>17.82</b>	<b>39.48</b>	<b>-6.52</b>	<b>46.00</b>

- Remark: 1. All readings are Quasi-Peak values.  
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading  
 3. The worst emission was detected at 443.220MHz with corrected signal level of 39.48dB $\mu$ V/m(Limit is 46.00 dB $\mu$ V/m) when the antenna was at horizontal polarization and at 1.1m high and the turn table was at 180 ° .  
 4. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH0 Rx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB $\mu$ V	Emission Level Vertical dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
109.540	11.94	2.09	15.82	29.85	-13.65	43.50
305.480	13.49	3.85	15.02	32.35	-13.65	46.00
553.800	20.40	6.08	7.88	34.36	-11.64	46.00
<b>588.720</b>	<b>19.13</b>	<b>6.03</b>	<b>13.59</b>	<b>38.75</b>	<b>-7.25</b>	<b>46.00</b>
773.990	21.61	6.78	8.76	37.15	-8.85	46.00
883.600	23.45	7.28	5.35	36.07	-9.93	46.00

- Remark: 1. All readings are Quasi-Peak values.  
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading  
 3. The worst emission was detected at 588.720MHz with corrected signal level of 38.75dB $\mu$ V/m(Limit is 46.00 dB $\mu$ V/m) when the antenna was at vertical polarization and at 1.1m high and the turn table was at 0°.  
 4. 0° was the table front facing the antenna. Degree is calculated from 0° clockwise facing the antenna.

Reviewer : lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH39 Rx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB $\mu$ V	Emission Level Horizontal dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
259.890	13.16	3.47	21.08	37.70	-8.30	46.00
279.290	12.88	3.62	21.21	37.71	-8.29	46.00
373.380	15.95	4.35	17.42	37.72	-8.28	46.00
432.550	16.94	4.89	15.97	37.80	-8.20	46.00
<b>589.690</b>	<b>18.94</b>	<b>6.08</b>	<b>12.98</b>	<b>38.00</b>	<b>-8.00</b>	<b>46.00</b>
777.870	21.62	7.20	8.67	37.49	-8.51	46.00

Remark: 1. All readings are Quasi-Peak values.

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : Lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH39 Rx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB $\mu$ V	Emission Level Vertical dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
65.890	9.63	1.59	14.31	25.54	-14.46	40.00
109.540	11.94	2.09	14.82	28.85	-14.65	43.50
305.480	13.49	3.85	14.02	31.35	-14.65	46.00
552.830	20.41	6.05	8.99	35.45	-10.56	46.00
<b>589.690</b>	<b>19.26</b>	<b>6.08</b>	<b>13.33</b>	<b>38.66</b>	<b>-7.34</b>	<b>46.00</b>
773.990	21.61	6.78	7.76	36.15	-9.85	46.00

- Remark: 1. All readings are Quasi-Peak values.  
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading  
 3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH79 Rx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dB $\mu$ V	Emission Level Horizontal dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
259.890	13.16	3.47	21.08	37.70	-8.30	46.00
279.290	12.88	3.62	21.21	37.71	-8.29	46.00
305.480	13.58	3.85	20.13	37.56	-8.44	46.00
<b>430.610</b>	<b>17.05</b>	<b>4.73</b>	<b>17.54</b>	<b>39.32</b>	<b>-6.68</b>	<b>46.00</b>
589.690	18.94	6.08	10.98	36.00	-10.00	46.00
777.870	21.62	7.20	8.67	37.49	-8.51	46.00

Remark: 1. All readings are Quasi-Peak values.

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Reviewer : lake Wang

Date of Test : Feb. 20, 2004 Temperature : 24°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 56%  
 Model No. : 8246B Test Mode : Host CH79 Rx  
 Test Engineer: Richzhy

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dB $\mu$ V	Emission Level Vertical dB $\mu$ V/m	Over Limits dB	Limits dB $\mu$ V/m
109.540	11.94	2.09	14.82	28.85	-14.65	43.50
305.480	13.49	3.85	14.02	31.35	-14.65	46.00
424.790	16.79	4.79	9.40	30.98	-15.02	46.00
552.830	20.41	6.05	8.99	35.45	-10.56	46.00
<b>588.720</b>	<b>19.13</b>	<b>6.03</b>	<b>12.59</b>	<b>37.75</b>	<b>-8.25</b>	<b>46.00</b>
773.990	21.61	6.78	7.76	36.15	-9.85	46.00

Remark: 1. All readings are Quasi-Peak values.

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading

3. 0 ° was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

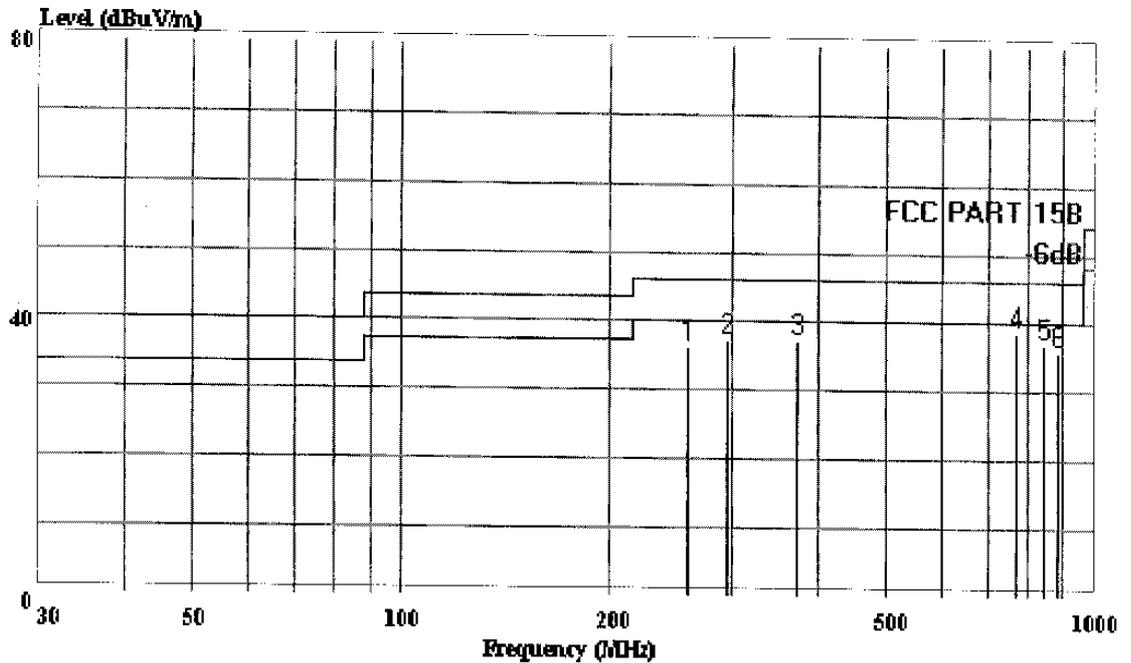
Reviewer : lake Wang



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Data#: 44 File#: Mad Catz.EMI Date: 2004-03-05 Time: 15:19:02



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
 EUT : Ivnx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24''C Humi:56%  
 Memo : Host CH0 Tx

Page: 1

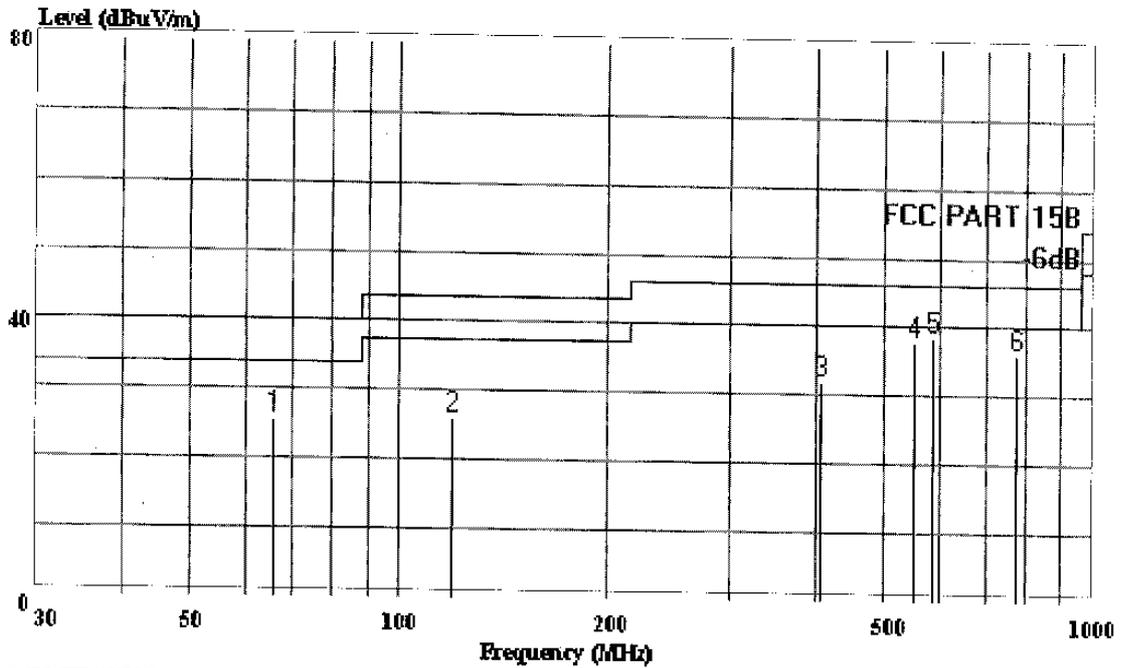
	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor
				dB	dBuV	dB	dB
1	259.890	36.24	46.00	-9.76	19.62	3.47	13.16
2	295.780	37.27	46.00	-8.73	20.39	3.73	13.15
3	373.380	37.25	46.00	-8.75	16.95	4.35	15.95
4	771.080	38.88	46.00	-7.12	10.47	6.89	21.52
5	843.830	37.18	46.00	-8.82	7.65	7.31	22.21
6	882.630	36.18	46.00	-9.82	6.77	7.28	22.13



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Data#: 45 File#: Mad Catz.EMI Date: 2004-03-05 Time: 15:29:31



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL.  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH0 Tx

Page: 1

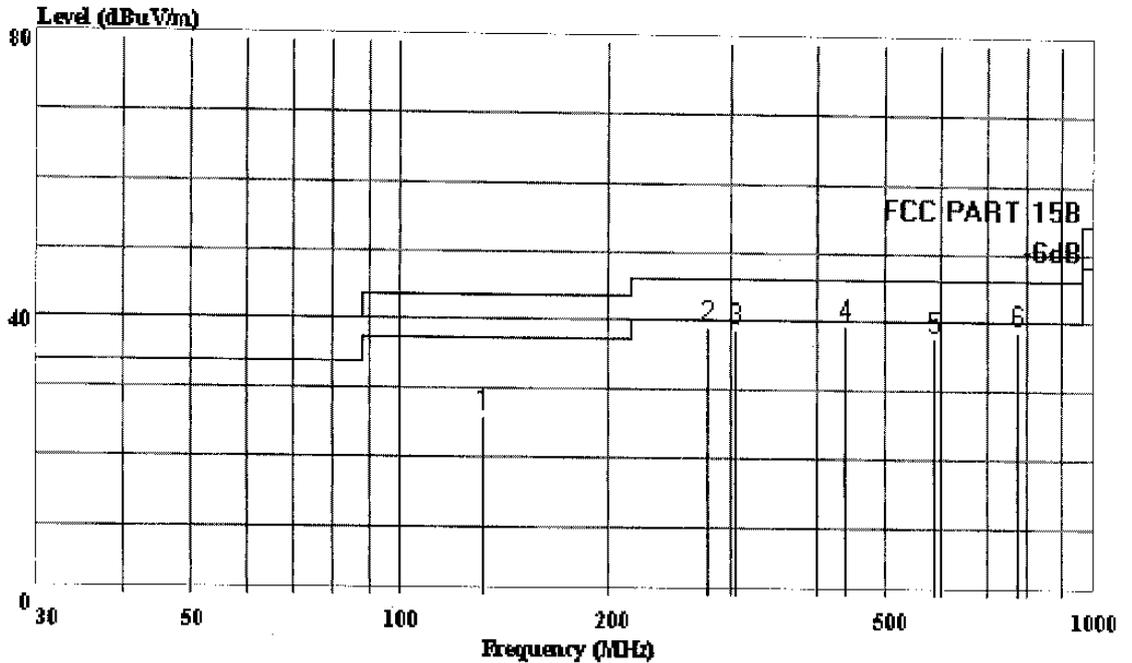
	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
				dB	dBuV	dB	dB
1	65.890	25.68	40.00	-14.32	14.45	1.59	9.63
2	119.240	25.85	43.50	-17.65	12.44	2.23	11.18
3	407.330	31.78	46.00	-14.22	10.90	4.63	16.24
4	552.830	37.75	46.00	-8.25	11.29	6.05	20.41
5	589.690	38.31	46.00	-7.69	12.98	6.08	19.26
6	773.990	35.97	46.00	-10.03	7.58	6.78	21.61



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Data#: 37 File#: Mad Catz.EMI Date: 2004-02-20 Time: 22:44:19



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
EUT : Lvx Wireless Controller for PS2  
M/N : 8246B  
Power : DC 8V(via PS2)  
Test Engineer: Richzhv  
Comment : Temp:24'C Humi:56%  
Memo : Host: CH39 Tx  
: AntPos:1.2m TablePos:0'

Page: 1

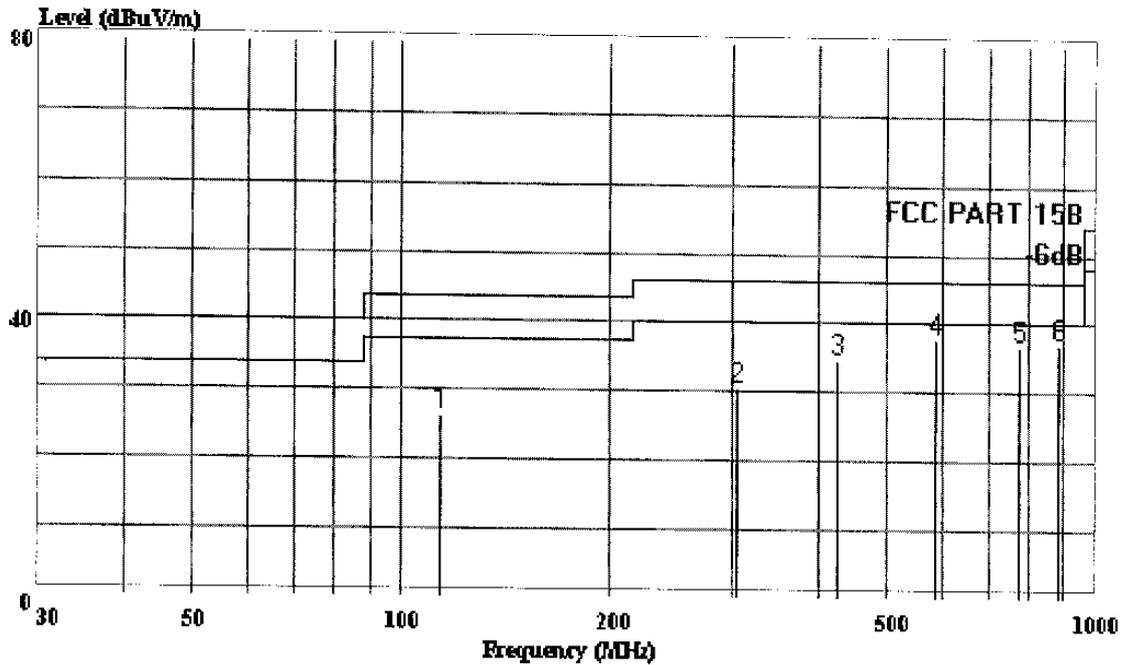
	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	Line	Limit	Level	Loss	Factor
			dBuV/m	dB	dBuV	dB	dB
1	131.850	26.12	43.50	-17.38	11.66	2.33	12.13
2	279.290	39.12	46.00	-6.88	22.62	3.62	12.88
3	305.480	38.74	46.00	-7.26	21.31	3.85	13.58
4	439.340	39.47	46.00	-6.53	17.69	4.91	16.87
5	589.690	37.76	46.00	-8.24	12.74	6.08	18.94
6	777.870	38.75	46.00	-7.25	9.93	7.20	21.62



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Data#: 36 File#: Mad Catz.EMI Date: 2004-02-20 Time: 22:42:49



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL  
EUT : Lvx Wireless Controller for PS2  
M/N : 8246B  
Power : DC 8V(via PS2)  
Test Engineer: Richzhv  
Comment : Temp:24'C Humi:56%  
Memo : Host CH39 Tx  
: AntPos:1.2m TablePos:180'

Page: 1

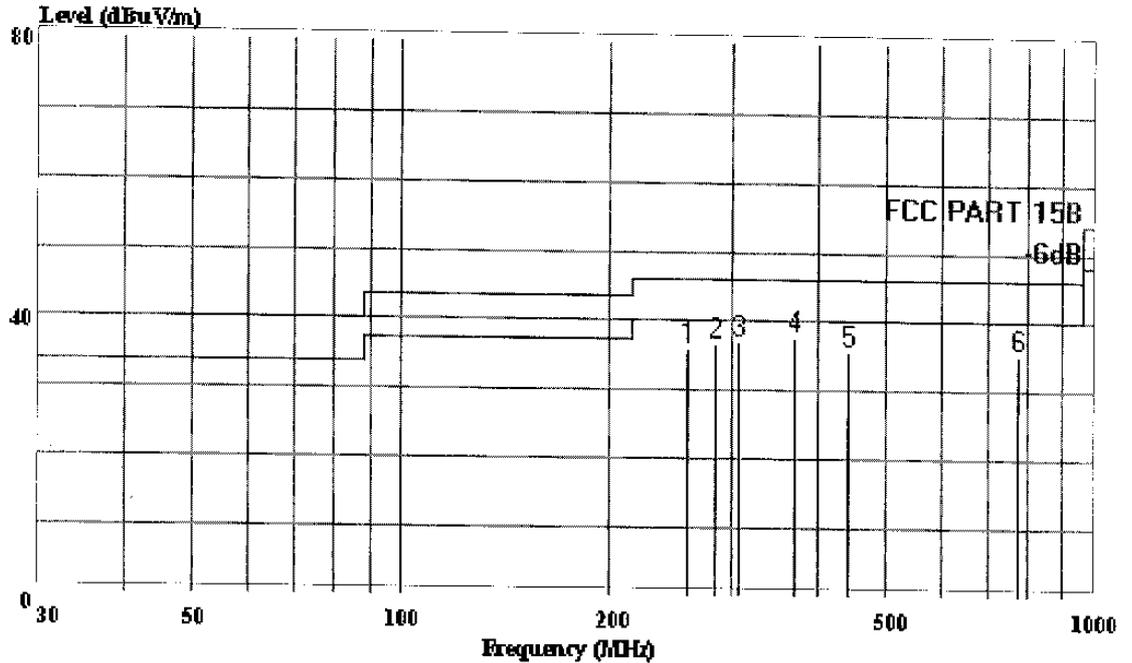
	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	113.420	26.20	43.50	-17.30	12.54	2.13	11.53
2	305.480	30.54	46.00	-15.46	13.20	3.85	13.49
3	424.790	34.70	46.00	-11.30	13.12	4.79	16.79
4	588.720	37.73	46.00	-8.27	12.57	6.03	19.13
5	777.870	36.76	46.00	-9.24	7.97	7.20	21.59
6	882.630	37.13	46.00	-8.87	6.40	7.28	23.45



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Data#: 47 File#: Mad Catz.EMI Date: 2004-03-05 Time: 15:34:37



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
EUT : Lvx Wireless Controller for PS2  
M/N : 8246B  
Power : DC 8V(via PS2)  
Test Engineer: Richzhv  
Comment : Temp:24'C Humi:56%  
Memo : Host CH79 Tx

Page: 1

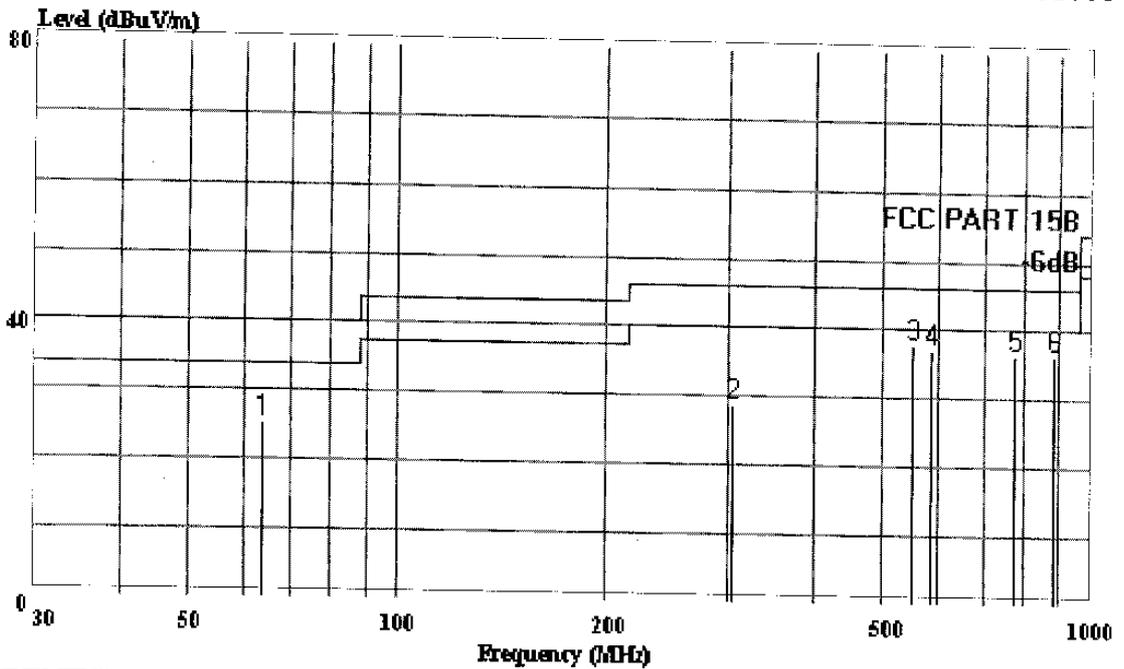
	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	259.890	35.93	46.00	-10.07	19.31	3.47	13.16
2	284.140	36.79	46.00	-9.21	20.30	3.62	12.87
3	307.420	36.93	46.00	-9.07	19.49	3.85	13.60
4	371.440	37.88	46.00	-8.12	17.70	4.37	15.80
5	443.220	35.65	46.00	-10.35	13.99	4.86	16.80
6	775.930	35.24	46.00	-10.76	6.54	7.11	21.59



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Data#: 46 File#: Mad Catz.EMI Date: 2004-03-05 Time: 15:32:05



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH79 Tx

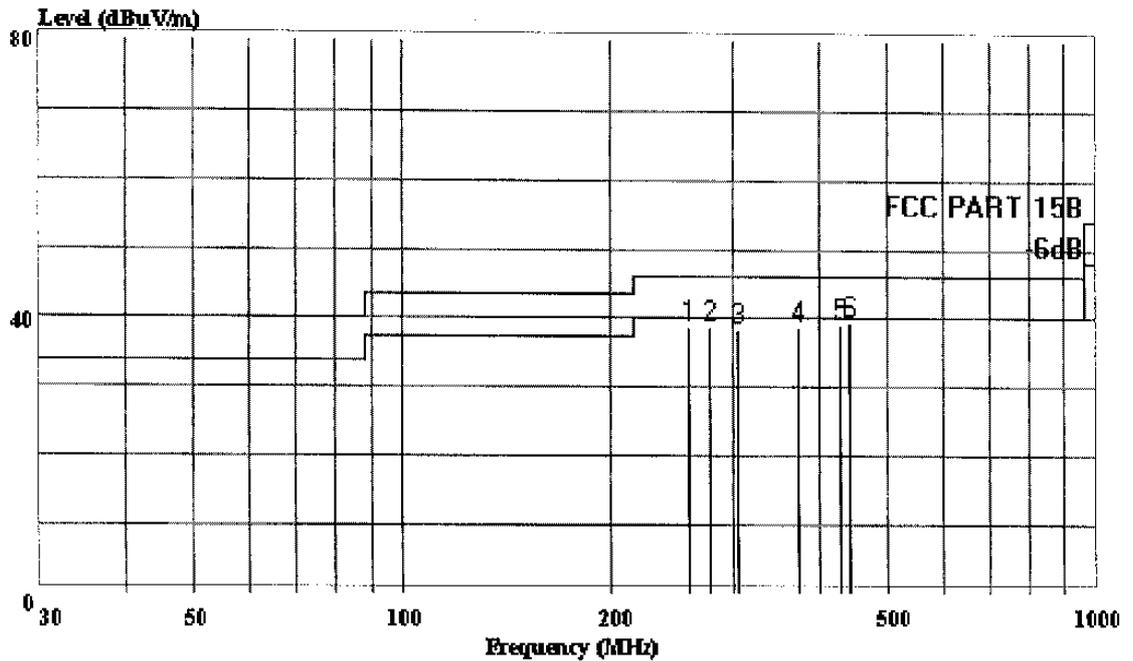
Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	63.950	25.13	40.00	-14.87	15.16	1.57	8.40
2	305.480	28.75	46.00	-17.25	11.42	3.85	13.49
3	552.830	37.91	46.00	-8.10	11.45	6.05	20.41
4	588.720	36.93	46.00	-9.07	11.77	6.03	19.13
5	773.990	36.53	46.00	-9.47	8.14	6.78	21.61
6	882.630	36.32	46.00	-9.68	5.59	7.28	23.45



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Data#: 43 File#: Mad Catz.EMI Date: 2004-02-20 Time: 22:56:53



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH0 Rx  
 : AntPos:1.1m TablePos:180'

Page: 1

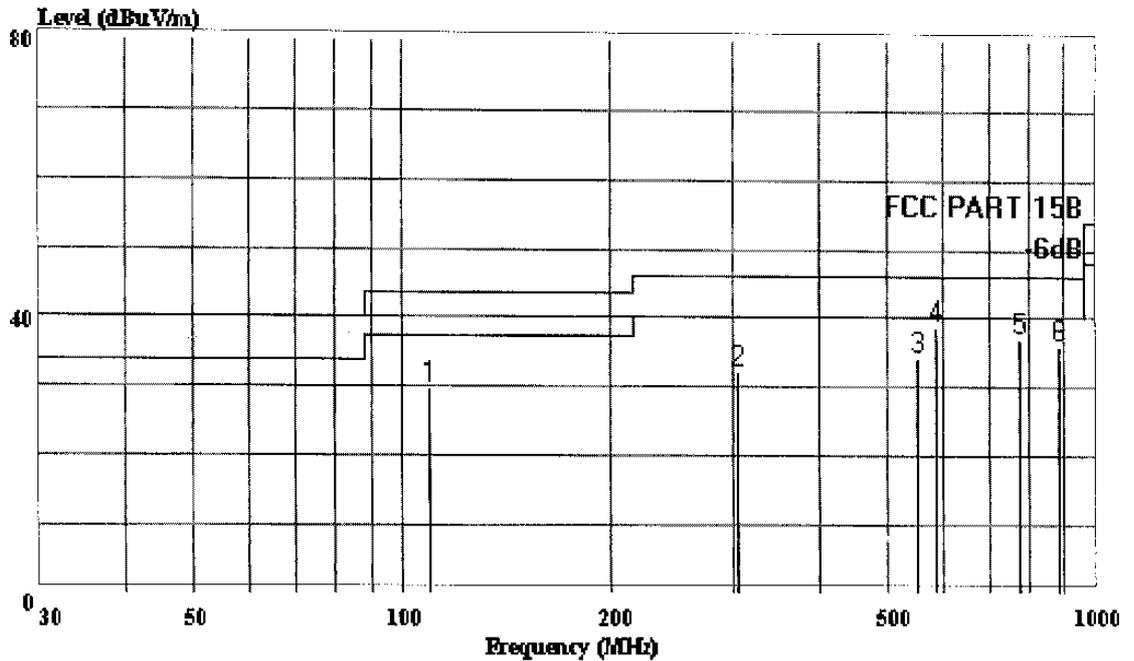
	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	259.890	38.70	46.00	-7.30	22.08	3.47	13.16
2	279.290	38.71	46.00	-7.29	22.21	3.62	12.88
3	305.480	38.56	46.00	-7.44	21.13	3.85	13.58
4	373.380	38.72	46.00	-7.28	18.42	4.35	15.95
5	428.670	39.16	46.00	-6.84	17.36	4.73	17.06
6	443.220	39.48	46.00	-6.52	17.82	4.86	16.80



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Data#: 42 File#: Mad Catz.EMI Date: 2004-02-20 Time: 22:53:28



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host: CH0 Rx  
 : AntPos:1.1m TablePos:0'

Page: 1

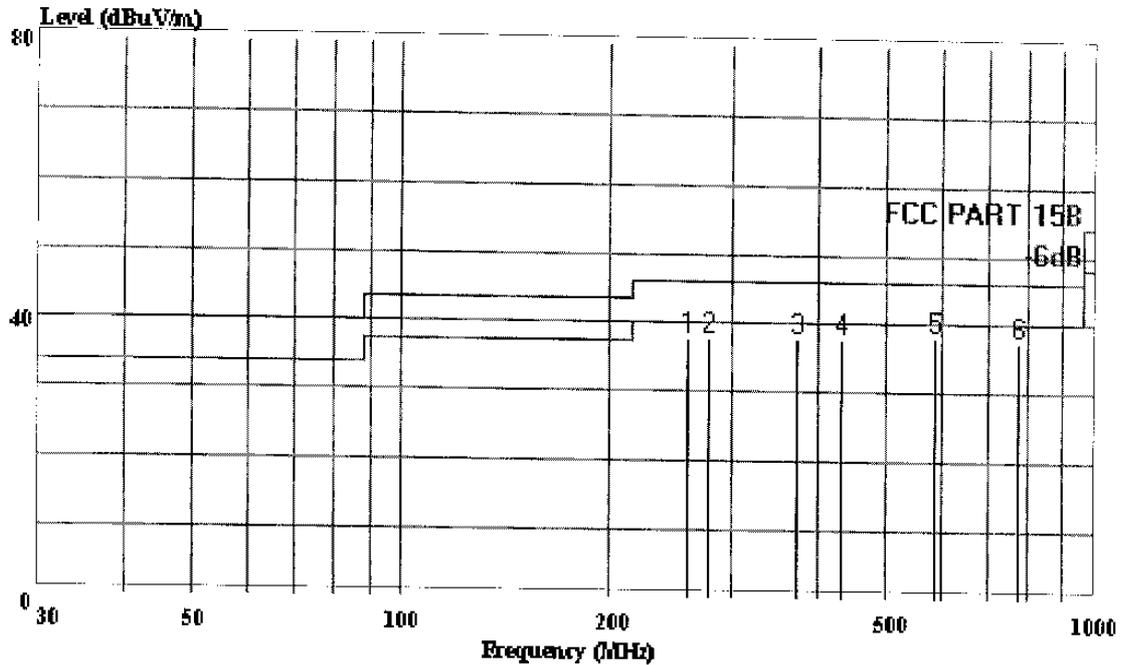
	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	109.540	29.85	43.50	-13.65	15.82	2.09	11.94
2	305.480	32.35	46.00	-13.65	15.02	3.85	13.49
3	553.800	34.36	46.00	-11.64	7.88	6.08	20.40
4	588.720	38.75	46.00	-7.25	13.59	6.03	19.13
5	773.990	37.15	46.00	-8.85	8.76	6.78	21.61
6	883.600	36.07	46.00	-9.93	5.35	7.28	23.45



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Data#: 49 File#: Mad Catz.EMI Date: 2004-03-05 Time: 15:50:08



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
 EUT : lvnx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH39 Rx

Page: 1

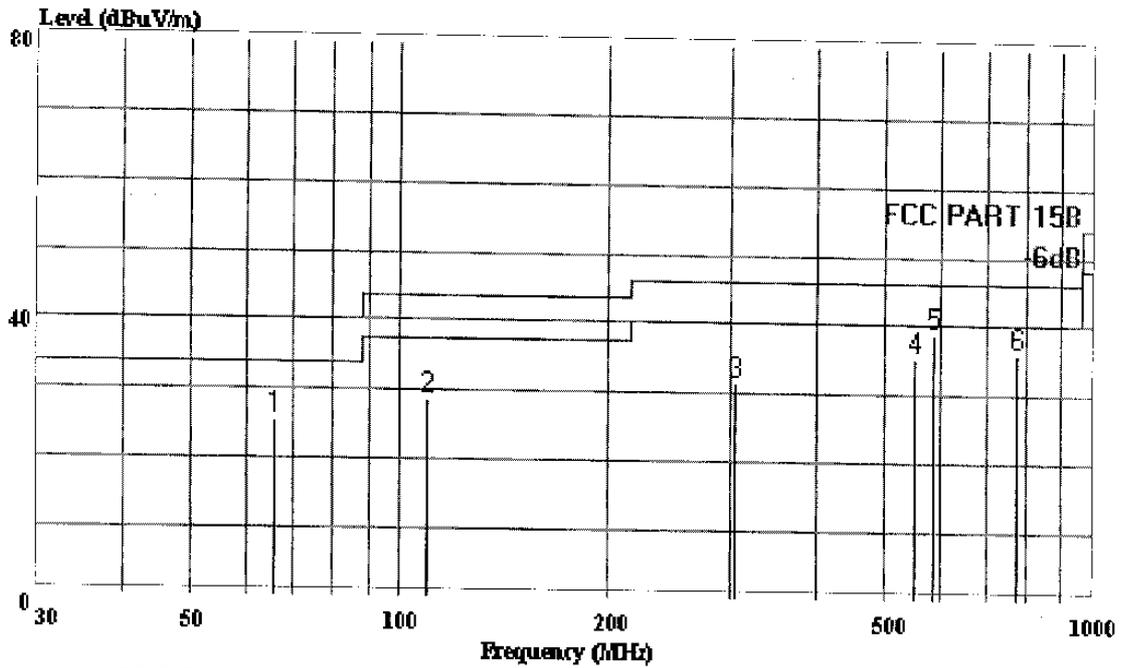
	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor
				dB	dBuV	dB	dB
1	259.890	37.70	46.00	-8.30	21.08	3.47	13.16
2	279.290	37.71	46.00	-8.29	21.21	3.62	12.88
3	373.380	37.72	46.00	-8.28	17.42	4.35	15.95
4	432.550	37.80	46.00	-8.20	15.97	4.89	16.94
5	589.690	38.00	46.00	-8.00	12.98	6.08	18.94
6	777.870	37.49	46.00	-8.51	8.67	7.20	21.62



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Data#: 48 File#: Mad Catz.EMI Date: 2004-03-05 Time: 15:44:40



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL  
 EUT : Ivnx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH39 Rx

Page: 1

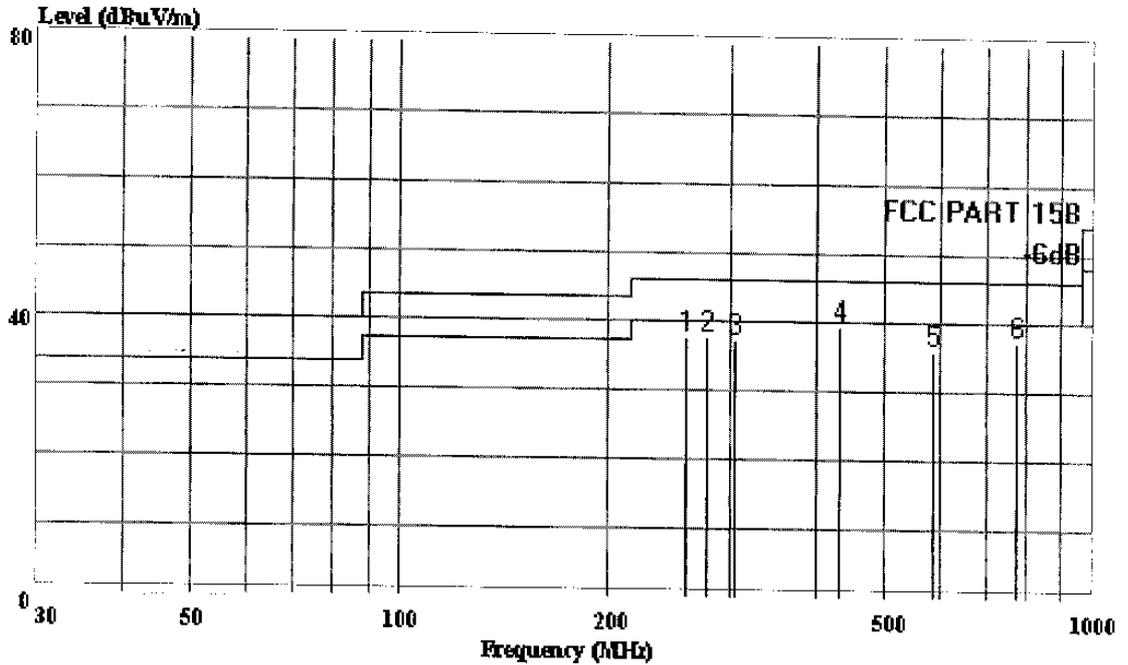
	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	65.890	25.54	40.00	-14.46	14.31	1.59	9.63
2	109.540	28.85	43.50	-14.65	14.82	2.09	11.94
3	305.480	31.35	46.00	-14.65	14.02	3.85	13.49
4	552.830	35.45	46.00	-10.56	8.99	6.05	20.41
5	589.690	38.66	46.00	-7.34	13.33	6.08	19.26
6	773.990	36.15	46.00	-9.85	7.76	6.78	21.61



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Data#: 51 File#: Mad Catz.EMI Date: 2004-03-05 Time: 15:59:05



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
 EUT : lvnx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH79 Rx

Page: 1

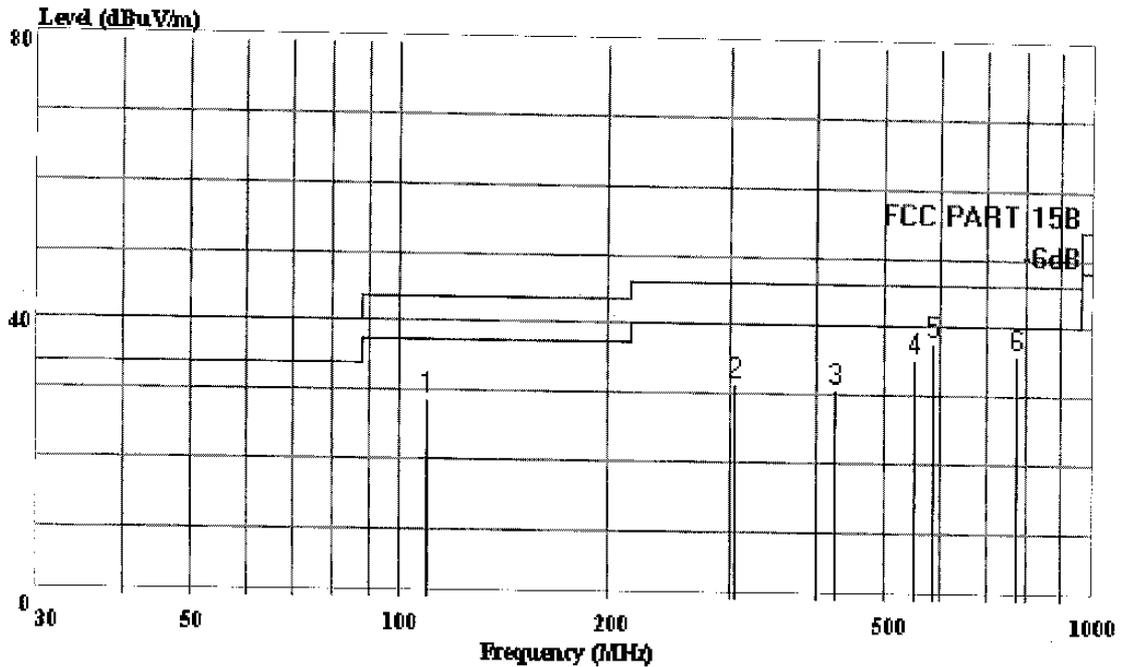
	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	Limit	Level	Loss	Factor
				dB	dBuV	dB	dB
1	259.890	37.70	46.00	-8.30	21.08	3.47	13.16
2	279.290	37.71	46.00	-8.29	21.21	3.62	12.88
3	305.480	37.56	46.00	-8.44	20.13	3.85	13.58
4	430.610	39.32	46.00	-6.68	17.54	4.73	17.05
5	589.690	36.00	46.00	-10.00	10.98	6.08	18.94
6	777.870	37.49	46.00	-8.51	8.67	7.20	21.62



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Data#: 50 File#: Mad Catz.EMI Date: 2004-03-05 Time: 15:55:33



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL  
EUT : lvnx Wireless Controller for PS2  
M/N : 8246B  
Power : DC 8V(via PS2)  
Test Engineer: Richzhv  
Comment : Temp:24''C Humi:56%  
Memo : Host CH79 Rx

Page: 1

	Freq	Level	Limit	Over	Read	Cable	Probe
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1	109.540	28.85	43.50	-14.65	14.82	2.09	11.94
2	305.480	31.35	46.00	-14.65	14.02	3.85	13.49
3	424.790	30.98	46.00	-15.02	9.40	4.79	16.79
4	552.830	35.45	46.00	-10.56	8.99	6.05	20.41
5	588.720	37.75	46.00	-8.25	12.59	6.03	19.13
6	773.990	36.15	46.00	-9.85	7.76	6.78	21.61

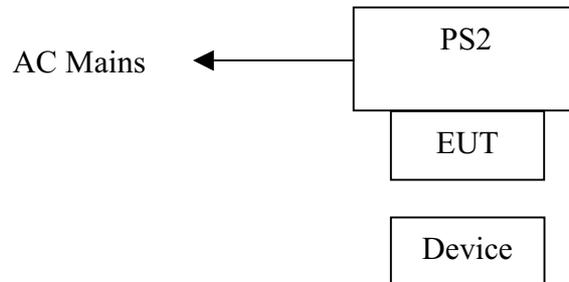
## 4. 20dB BANDWIDTH MEASUREMENT

### 4.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.31, 03	1 Year

### 4.2. Block Diagram of Test Setup



*(EUT: Lynx Wireless Controller For PS2)*

### 4.3. Operating Condition of EUT

1. Setup the EUT as shown in Section 4.2..
2. Let the EUT work in test mode (Host CH0 Tx/Host CH39 Tx/Host CH79 Tx) and test it.

#### 4.4. Test Procedure

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. Power on the EUT and let it work normally, we use a keyboard test software, 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. Horn antenna is used as receiving antenna.

The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

#### 4.5. Test Results

**PASSED.**

The testing data was attached in the next pages.

Date of Test : Feb. 17, 2004 Temperature : 23°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 54%  
 Model No. : 8246B Test Mode : Host CH0 Tx  
 Test Engineer: Richzhy

Channel.	Frequency	20dB Bandwidth
1	2402MHz	790KHz

Date of Test : Feb. 17, 2004 Temperature : 23°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 54%  
 Model No. : 8246B Test Mode : Host CH39 Tx  
 Test Engineer: Richzhy

Channel.	Frequency	20dB Bandwidth
40	2441MHz	820KHz

Date of Test : Feb. 17, 2004 Temperature : 23°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 54%  
 Model No. : 8246B Test Mode : Host CH79 Tx  
 Test Engineer: Richzhy

Channel.	Frequency	20dB Bandwidth
80	2481MHz	800KHz

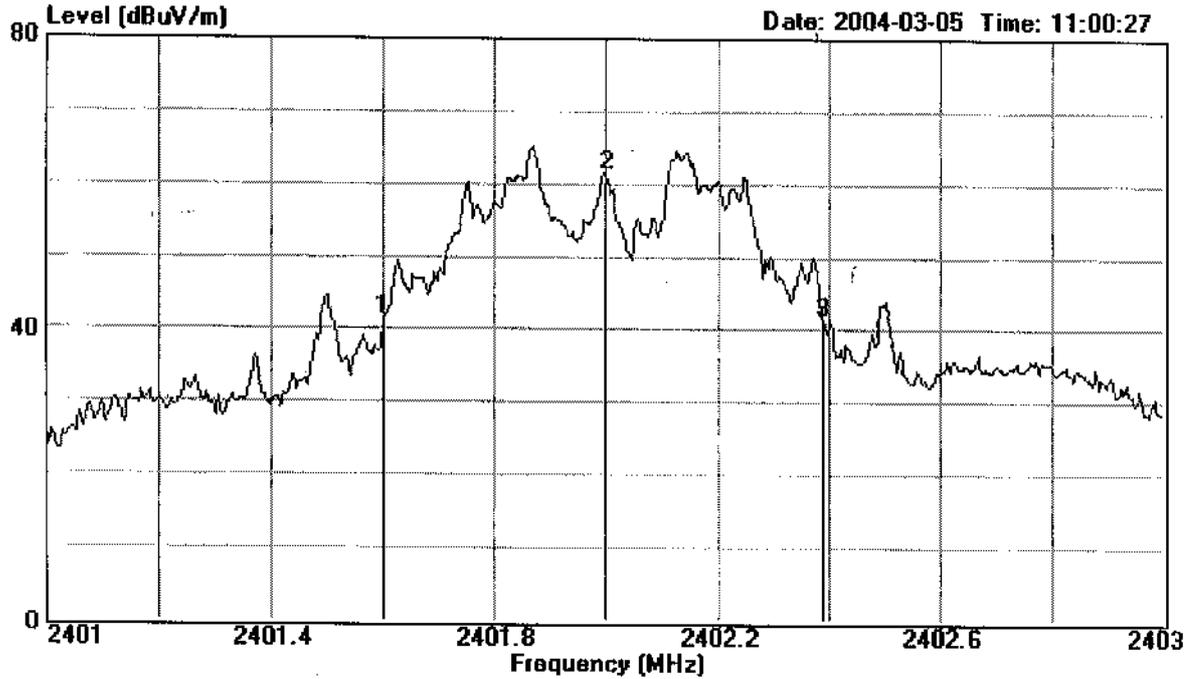
Reviewer : lake Wang



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 AUDIX Technology (Shenzhen) Co., Ltd.

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 Nantou, Shenzhen, Guangdong, China  
 Tel:+86-755-26639496 Fax:+86-755-26632877

Data#: 90 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
 Condition : 3m 3115FACTOR VERTICAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CHO Tx  
 Test comment : Temp:23°C Humi:54%

	Freq	Level	Over Limit	Limit	Read	Cable	Probe	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2401.600	41.43	-----	-----	10.18	3.20	28.05	Peak
2	2402.000	61.43	-----	-----	30.17	3.20	28.06	Peak
3	2402.390	41.43	-----	-----	10.15	3.21	28.07	Peak

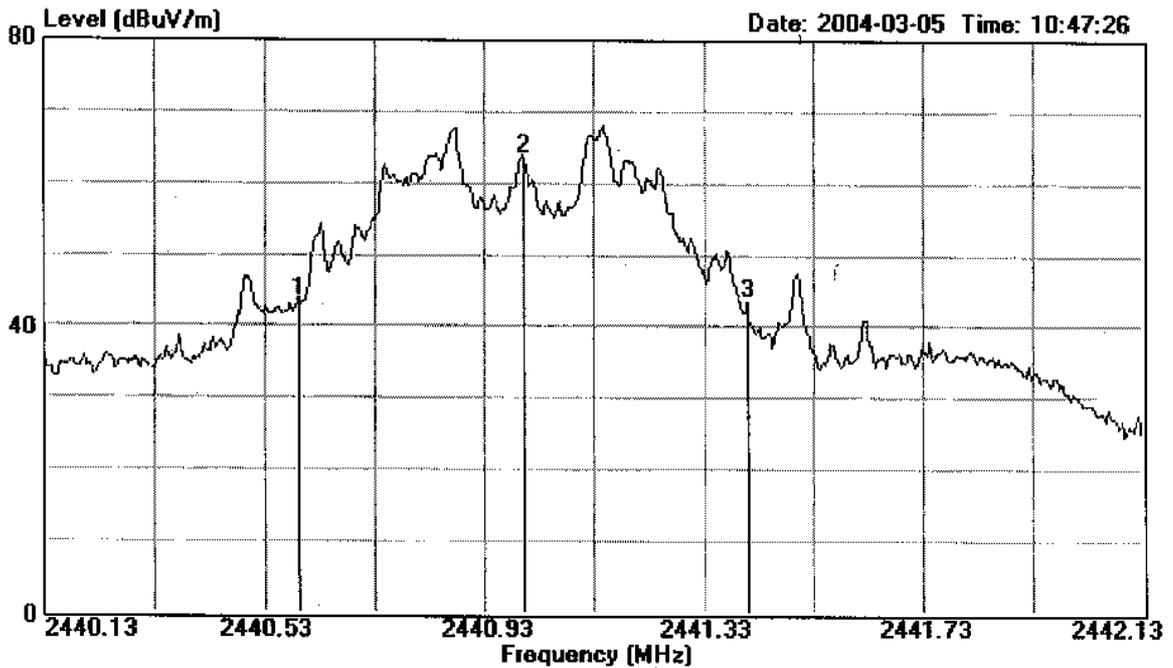


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Data#: 89 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
Condition : 3m 3115FACTOR VERTICAL  
EUT : Lynx Wireless Controller for PS2  
M/N : 8246B  
Power : DC 8V (via PS2)  
Test Engineer : Richzhy  
Memo : Host CH39 Tx  
Test comment : Temp:23°C Humi:54%

	Freq	Level	Over Limit	Limit	Read	Cable	Probe	Remark
	MHz	dBuV/m		dB	dBuV	dB	dB	
1	2440.590	43.74	-----	-----	12.37	3.23	28.14	Peak
2	2441.000	63.74	-----	-----	32.37	3.23	28.14	Peak
3	2441.410	43.74	-----	-----	12.37	3.23	28.14	Peak

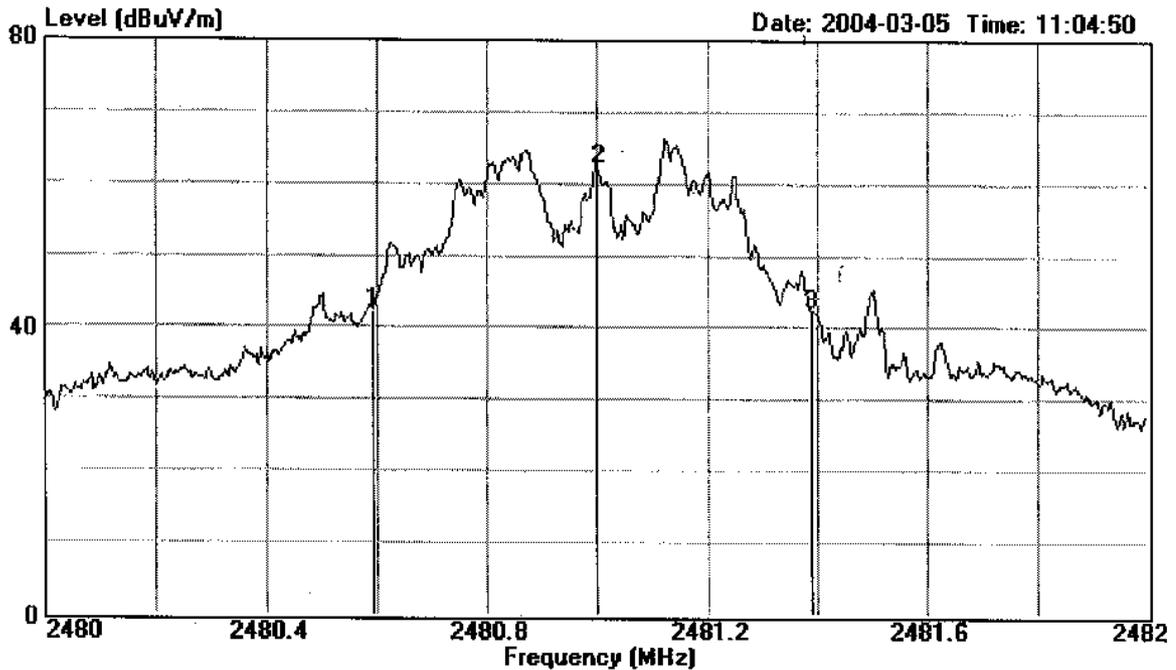


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Data#: 91 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
 Condition : 3m 3115FACTOR VERTICAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CH79 Tx  
 Test comment : Temp:23°C Humi:54%

	Freq	Level	Over Limit	Limit	Read	Cable	Probe	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	Remark
1	2480.590	42.41	-----	-----	10.95	3.26	28.20	Peak
2	2481.000	62.41	-----	-----	30.95	3.26	28.20	Peak
3	2481.390	42.41	-----	-----	10.95	3.26	28.20	Peak

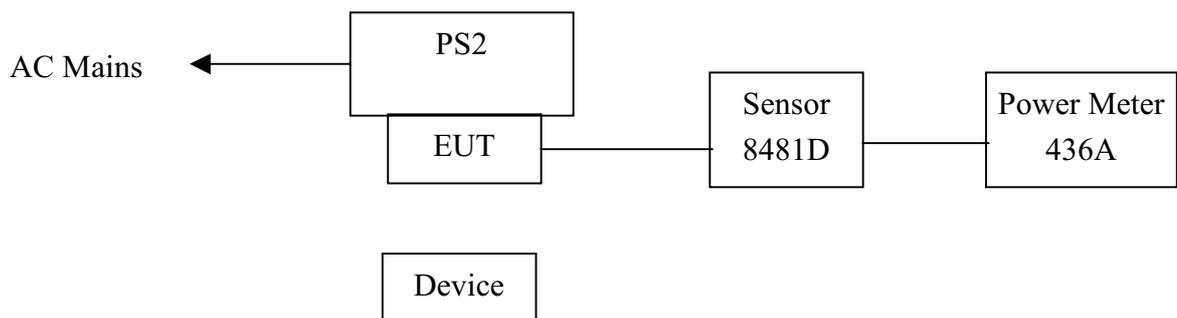
## 5. THE MAXIMUM PEAK OUTPUT POWER MEASUREMENT

### 5.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.31, 03	1 Year
5.	Power meter	HP	436A	2016A07891	NCR	
6.	Power Sensor	HP	8481D	3318A13613	May.31, 03	1Year

### 5.2. Block Diagram of Test Setup



*(EUT: Lynx Wireless Controller For PS2)*

### 5.3. Specification Limits (§15.247(b)-(3))

The Limits of maximum Peak Output Power for digital modulation in 2400-2483.5MHz is : 1Watt. (30dBm)

### 5.4. Operating Condition of EUT

1. Setup the EUT as shown in Section 5.2..
2. Let the EUT work in test mode (Host CH0 Tx/Host CH39 Tx/Host CH79 Tx) and test it.

### 5.5.Test Procedure

Setup the EUT as shown in Section 5.2. Turn on the play station 2 and let the EUT working . The EUT is via the power sensor link to power meter. The test value reading is from power meter.

### 5.6.Test Results

**PASSED.**

The testing data was attached in the next pages.

Date of Test : Feb. 17, 2004 Temperature : 23°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 58%  
 Model No. : 8246B Test Mode : Host CH0 Tx  
 Test Engineer: Richzhy

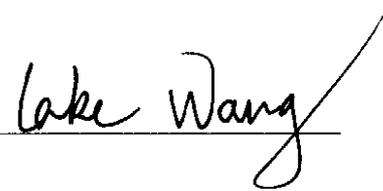
Frequency	Reading dBm	Cable Loss dB	Peak Power dBm	Limit dBm
2402MHz	22.62	0.2	22.82	30.00

Date of Test : Feb. 17, 2004 Temperature : 23°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 58%  
 Model No. : 8246B Test Mode : Host CH39 Tx  
 Test Engineer: Richzhy

Frequency	Reading dBm	Cable Loss dB	Peak Power dBm	Limit dBm
2441MHz	22.53	0.2	22.73	30.00

Date of Test : Feb. 17, 2004 Temperature : 23°C  
 EUT : Lynx Wireless Controller For PS2 Humidity : 58%  
 Model No. : 8246B Test Mode : Host CH79 Tx  
 Test Engineer: Richzhy

Frequency	Reading dBm	Cable Loss dB	Peak Power dBm	Limit dBm
2481MHz	22.6	0.2	22.8	30.00

Reviewer : 

## 6. CHANNEL CARRIER FREQUENCIES SEPARATED

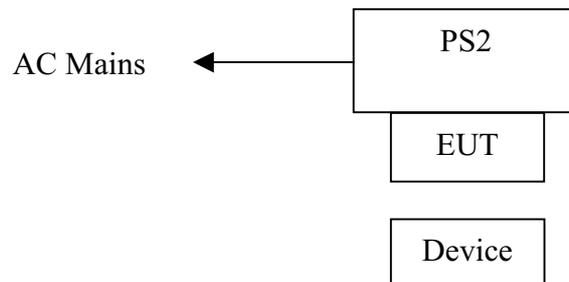
### MEASUREMENT

#### 6.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.31, 03	1 Year

#### 6.2. Block Diagram of Test Setup



*(EUT: Lynx Wireless Controller For PS2)*

#### 6.3. Specification Limits (§15.247(d))

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 KHz or 20dB bandwidth of the hopping channel, whichever is greater.

#### 6.4. Operating Condition of EUT

1. Setup the EUT as shown in Section 7.2..
2. Let the EUT work in test mode (Host CH0 Tx/Host CH39 Tx/Host CH79 Tx) and test it.

## 6.5. Test Procedure

EUT and its simulators are placed on a turn table, the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it.

The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 30kHz RBW and 100kHz VBW, set sweep time : 50ms.

## 6.6. Test Results

**PASSED.**

The testing data was attached in the next pages.

1. CH39 is 2441MHz.  
CH38 is 2440MHz

Channel Carrier Frequency Separated = 2441MHz – 2440MHz  
= 1MHz

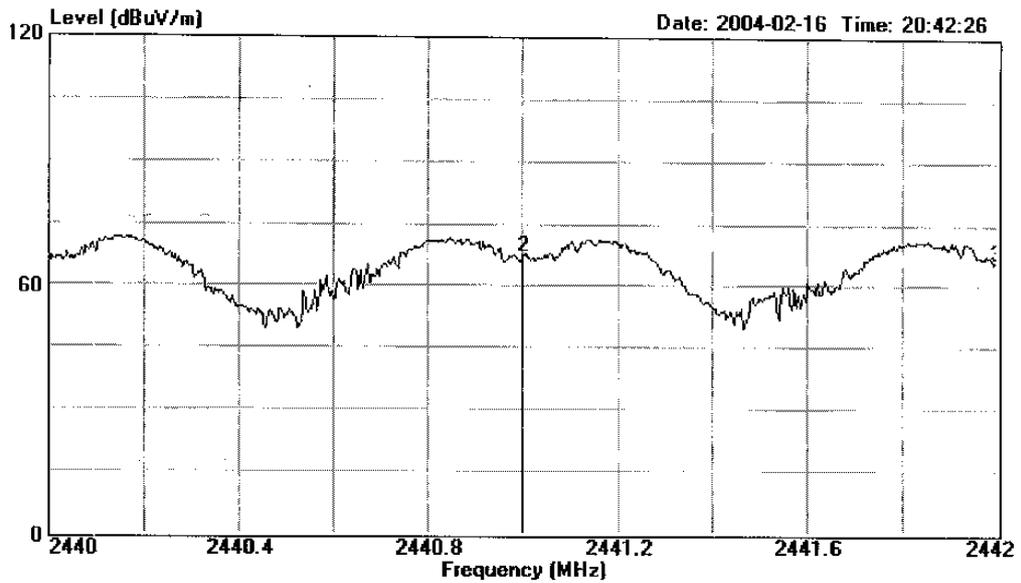


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Data#: 87 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
Condition : 3m 3115FACTOR VERTICAL  
EUT : Lynx Wireless Controller for PS2  
M/N : 8246B  
Power : DC 8V (via PS2)  
Test Engineer : Richzhy  
Memo : Host ch to ch  
Test comment : Temp:23°C Humi:54%

	Freq	Level	Over Limit	Limit	Read	Cable	Probe
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	2440.000	65.38	-----	-----	34.01	3.23	28.14
2	2441.000	67.53	-----	-----	36.16	3.23	28.14
3	2442.000	65.88	-----	-----	34.51	3.23	28.14

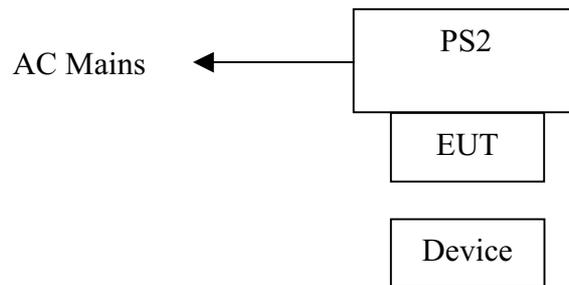
## 7. FREQUENCY HOPPING SYSTEM CHANNEL NUMBER MEASUREMENT

### 7.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.31, 03	1 Year

### 7.2. Block Diagram of Test Setup



*(EUT: Lynx Wireless Controller For PS2)*

### 7.3. Specification Limits (§15.247(d))

For frequency hopping systems operating in the 2400-2483.5MHz band employing at least 75 hopping channels.

### 7.4. Operating Condition of EUT

1. Setup the EUT as shown in Section 8.2..
2. Let the EUT work in test mode and test it.

## 7.5. Test Procedure

EUT and its simulators are placed on a turn table, the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it.

The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 100kHz RBW and 100kHz VBW, set sweep time : 50ms.

## 7.6. Test Results

**PASSED.**

The testing data was attached in the next pages.

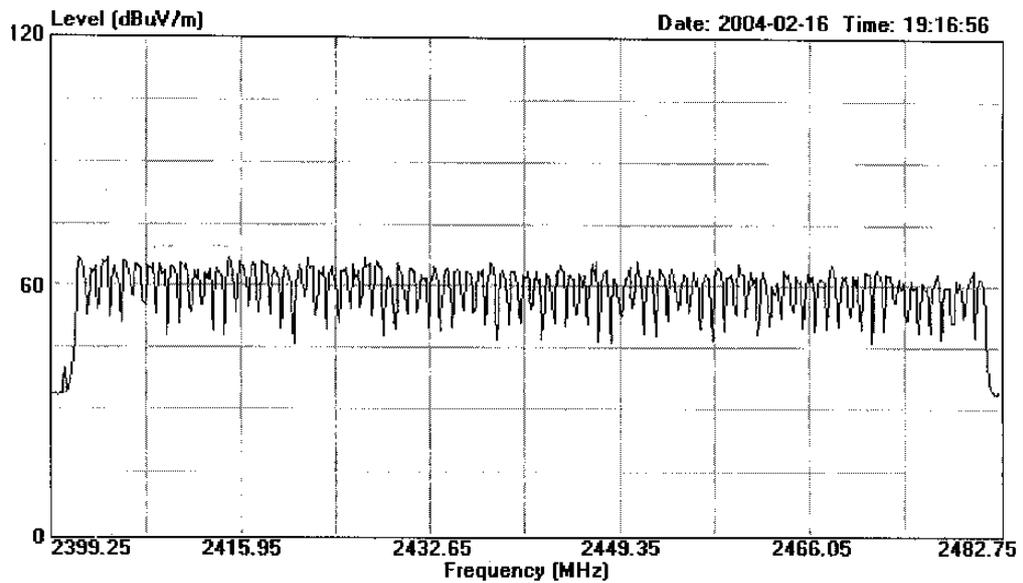


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Data#: 56 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
Condition : 3m 3115FACTOR VERTICAL  
EUT : Lynx Wireless Controller for PS2  
M/N : 8246B  
Power : DC 8V (via PS2)  
Test Engineer : Richzhy  
Memo : Host ch numbers  
Test comment : Temp:23°C Humi:54%

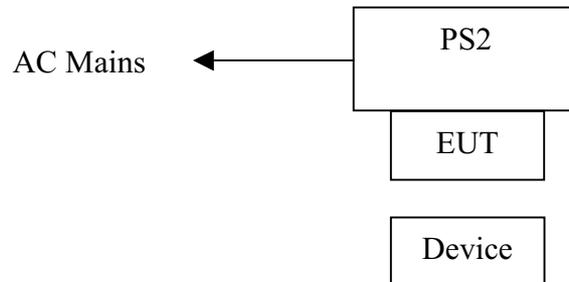
## 8. THE AVERAGE TIME OF OCCUPANCY MEASUREMENT

### 8.1. Test Equipment

The following test equipment were used during the Emission Bandwidth Test :

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	May.31, 03	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.31, 03	1 Year

### 8.2. Block Diagram of Test Setup



*(EUT: Lynx Wireless Controller For PS2)*

### 8.3. Specification Limits (§15.247(d))

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

### 8.4. Operating Condition of EUT

1. Setup the EUT as shown in Section 9.2..
2. Let the EUT work in test mode and test it.

## 8.5. Test Procedure

EUT and its simulators are placed on a turn table, the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test it.

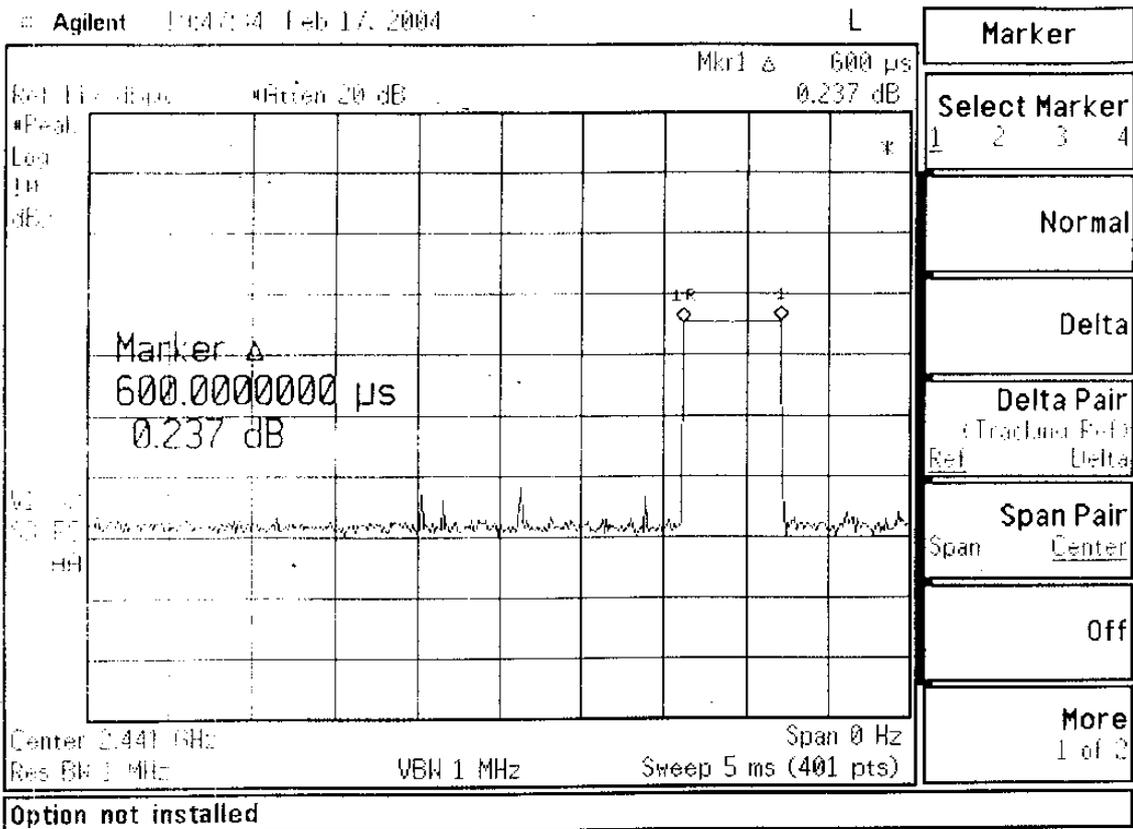
The bandwidth of the fundamental frequency was measured with the spectrum analyzer using 1MHz RBW and 1MHz VBW, set sweep time : 5ms. Span : 0Hz.

## 8.6. Test Results

### **PASSED.**

The testing data was attached in the next pages.

1. This system hop 83 times/second, every hopping include 1 time sending data and 1 time receiving data. So send times in every second to all 80 channels:  
 $83/2=41.5$  times/second
2. Sent times for average every second and every channel.  
 $41.5/80=0.52$  times/channel\*s
3. Cycle time:  $80*0.4=32$ second
4. The average time of occupancy on any channel within a period :  
 $0.52*32*0.6=9.984$ ms <400ms



## **9. DEVIATION TO TEST SPECIFICATIONS**

(None.)

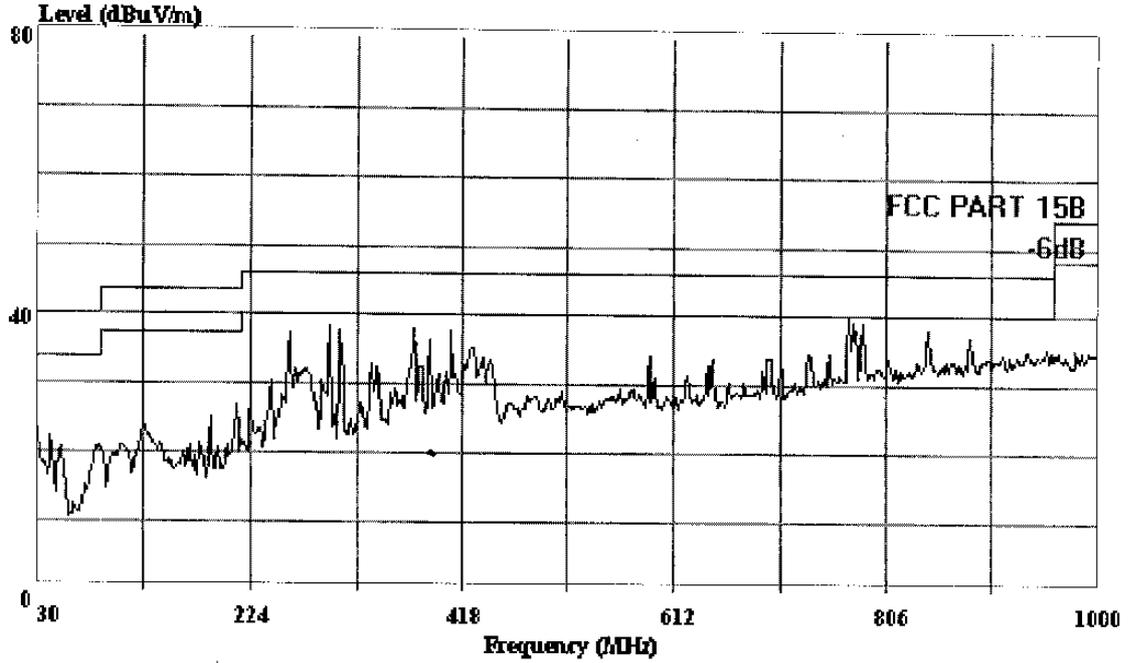
# APPENDIX I



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Data#: 14 File#: Mad Catz.EMI Date: 2004-02-18 Time: 21:50:14



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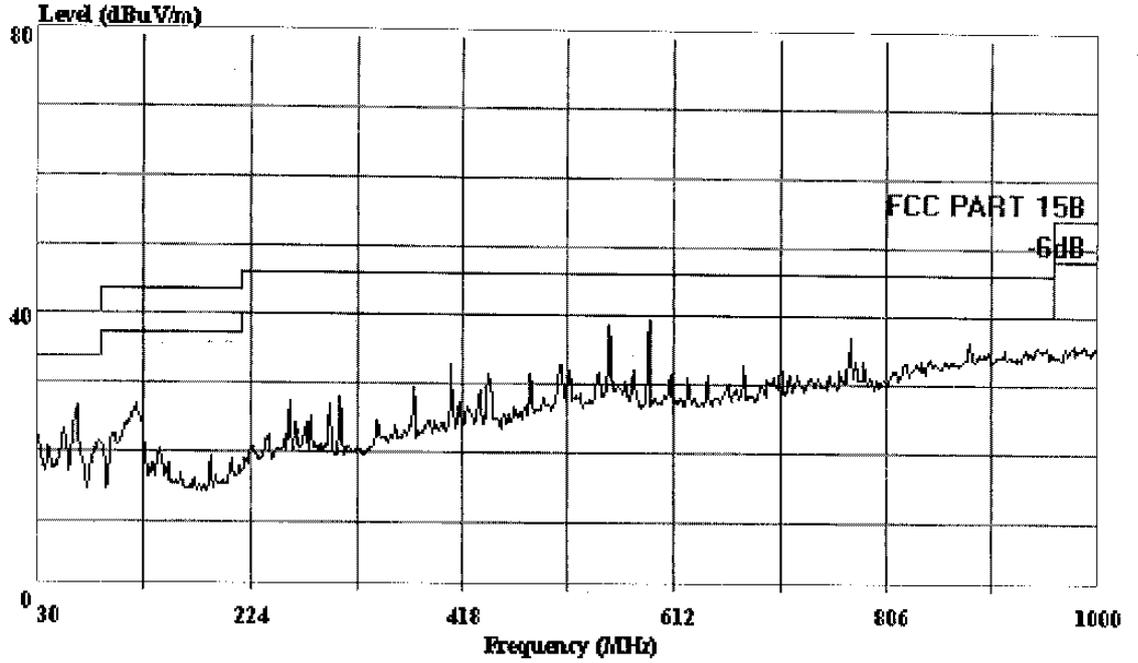
Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
 EUT : IvnX Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH0 Tx



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Data#: 15 File#: Mad Catz.EMI Date: 2004-02-18 Time: 21:51:33



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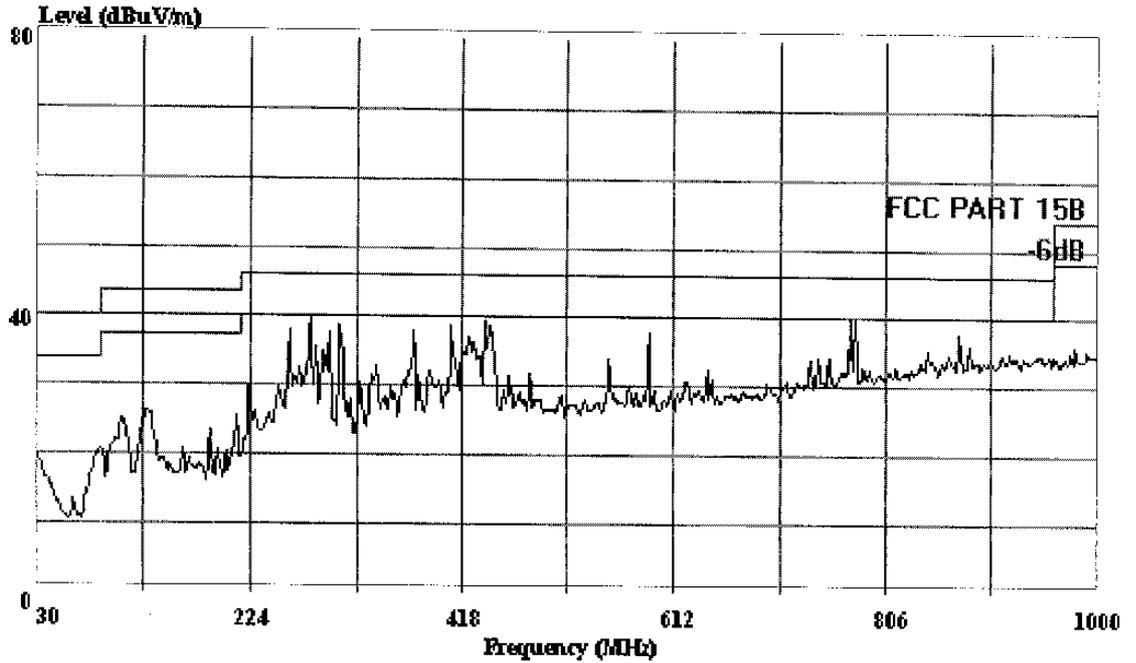
Condition: FCC PART 15B 3m 2598FACTOR VERTICAL  
 EUT : lvnX Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH0 Tx



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Data#: 13 File#: Mad Catz.EMI Date: 2004-02-18 Time: 21:49:01



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH39 Tx



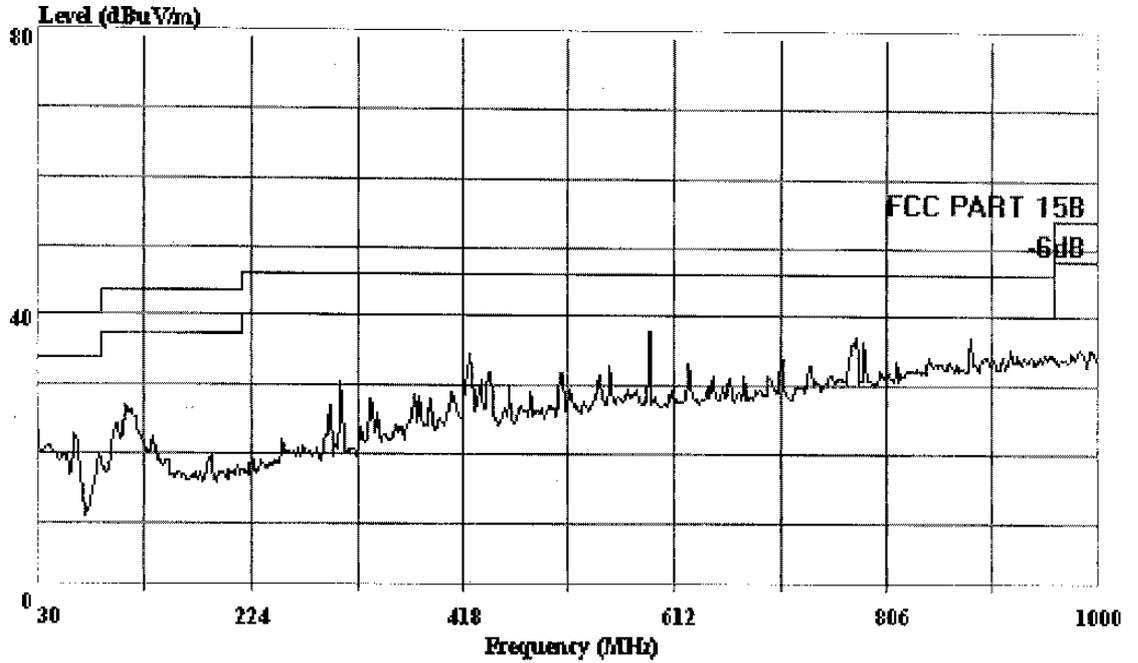
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Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 12 File#: Mad Catz.EMI Date: 2004-02-18 Time: 21:47:57



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Ref Trace:

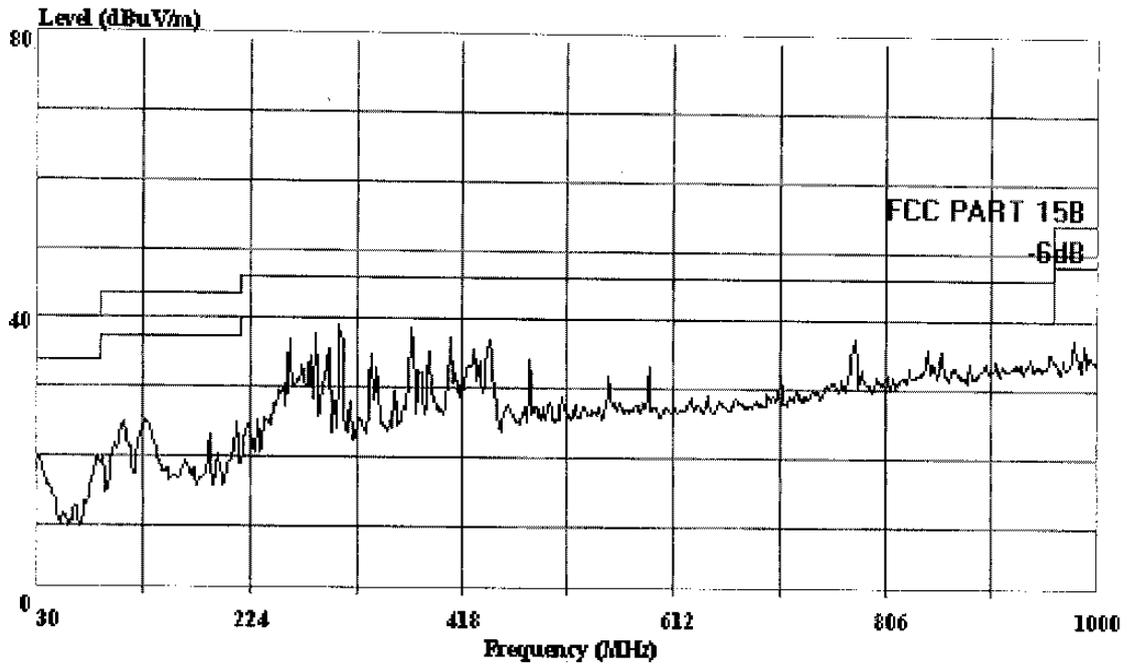
Condition: FCC PART 15B 3m 2598FACTOR VERTICAL  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH39 Tx



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Data#: 17 File#: Mad Catz.EMI Date: 2004-02-18 Time: 21:55:59



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Ref Trace:

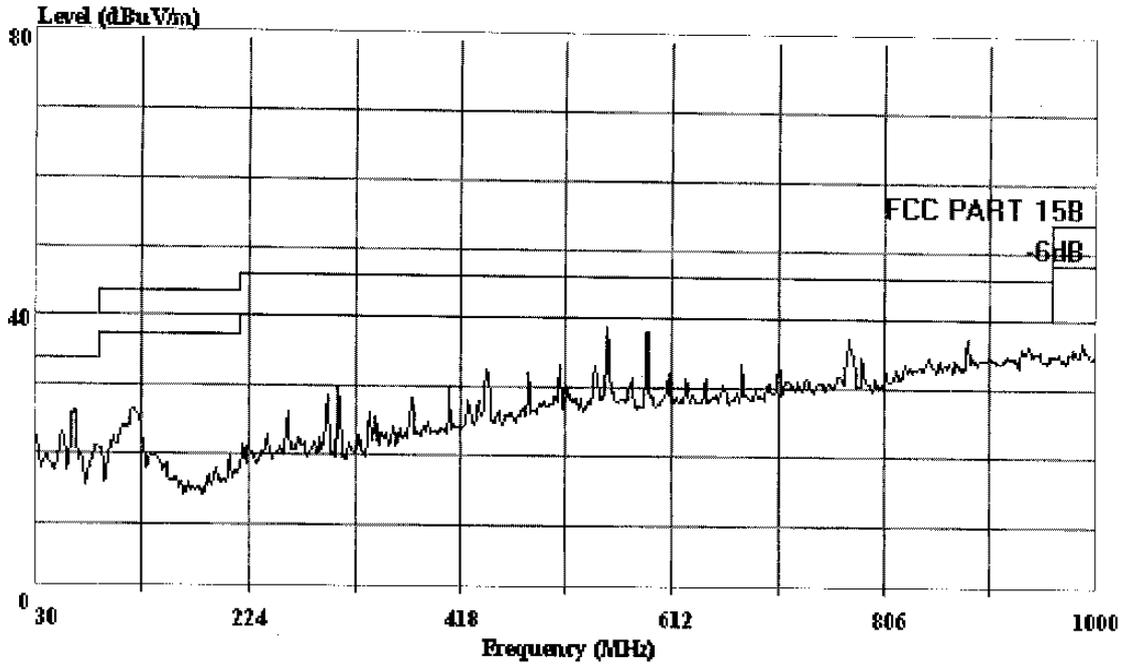
Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH79 Tx



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Data#: 16 File#: Mad Catz.EMI Date: 2004-02-18 Time: 21:53:57



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Ref Trace:

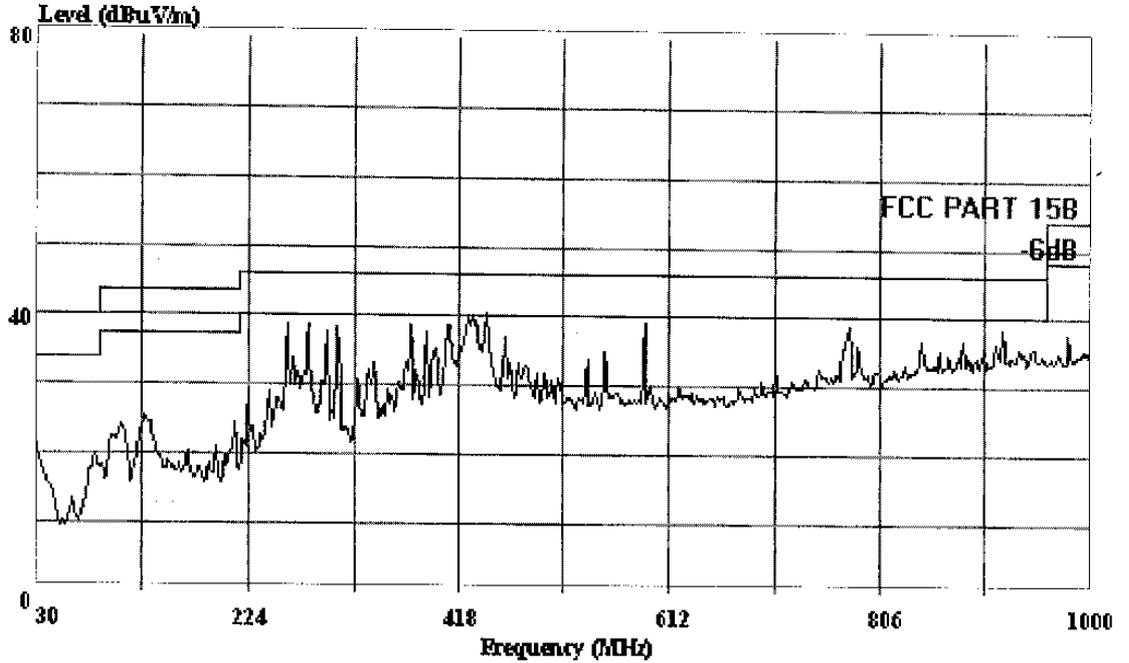
Condition: FCC PART 15B 3m 2598FACTOR VERTICAL.  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH79 Tx



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Data#: 31 File#: Mad Catz.EMI Date: 2004-02-18 Time: 22:50:22



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Trace:

Ref Trace:

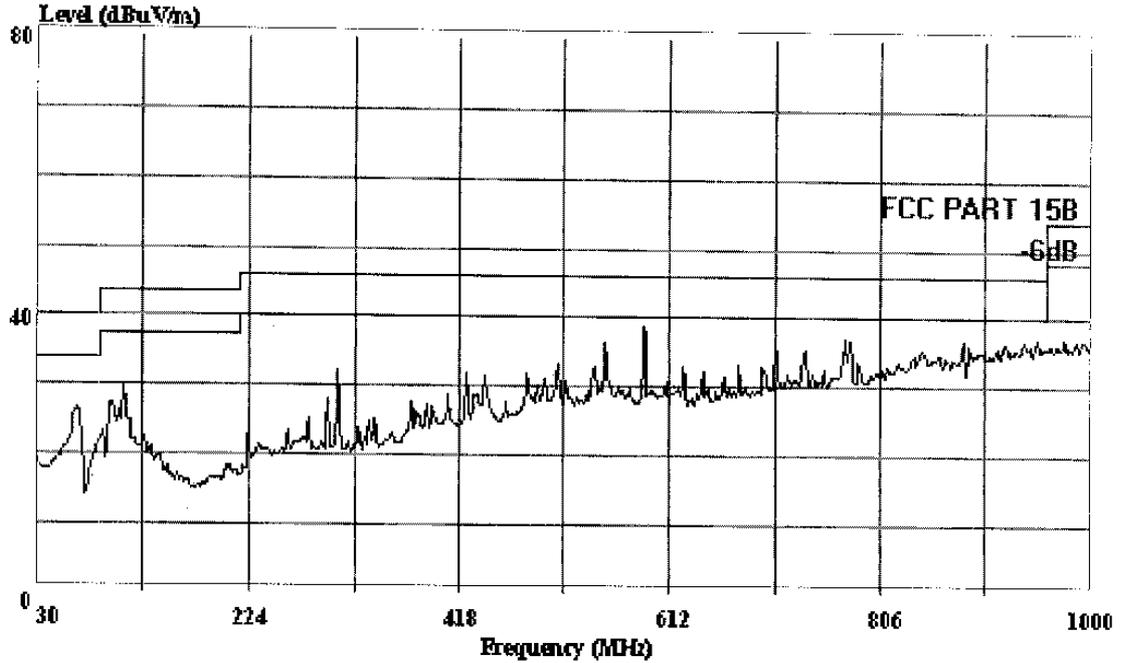
Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH0 Rx



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Data#: 30 File#: Mad Catz.EMI Date: 2004-02-18 Time: 22:45:33



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Ref Trace:

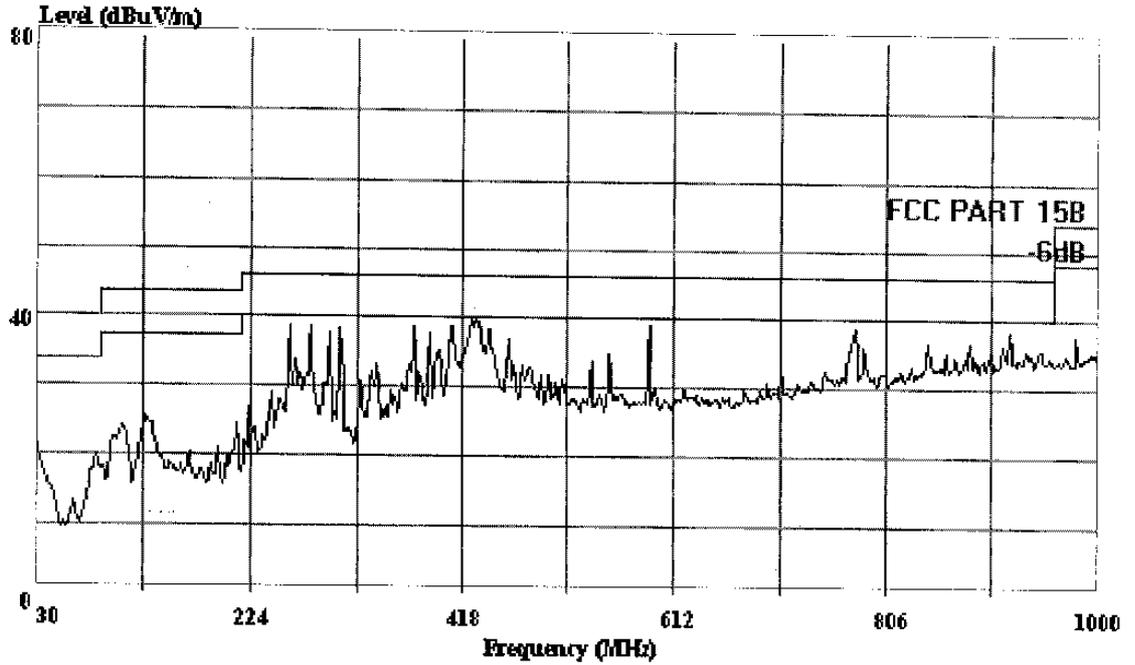
Condition: FCC PART 15B 3m 2598FACTOR VERTICAL.  
 RUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Tempo:24'C Humi:56%  
 Memo : Host CH0 Rx



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 Fax: 0755-26632877

Data#: 33 File#: Mad Catz.EMI Date: 2004-02-18 Time: 22:56:22



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Trace:

Ref Trace:

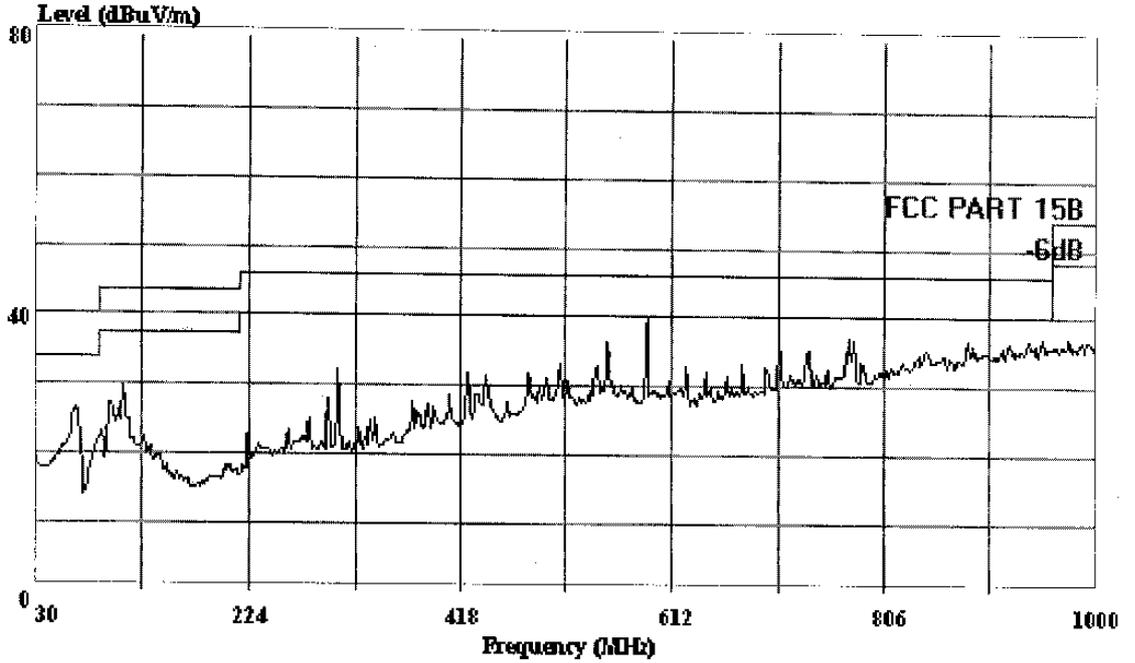
Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH39 Rx



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 Fax: 0755-26632877

Data#: 32 File#: Mad Catz.EMI Date: 2004-02-18 Time: 22:53:33



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Trace:

Ref Trace:

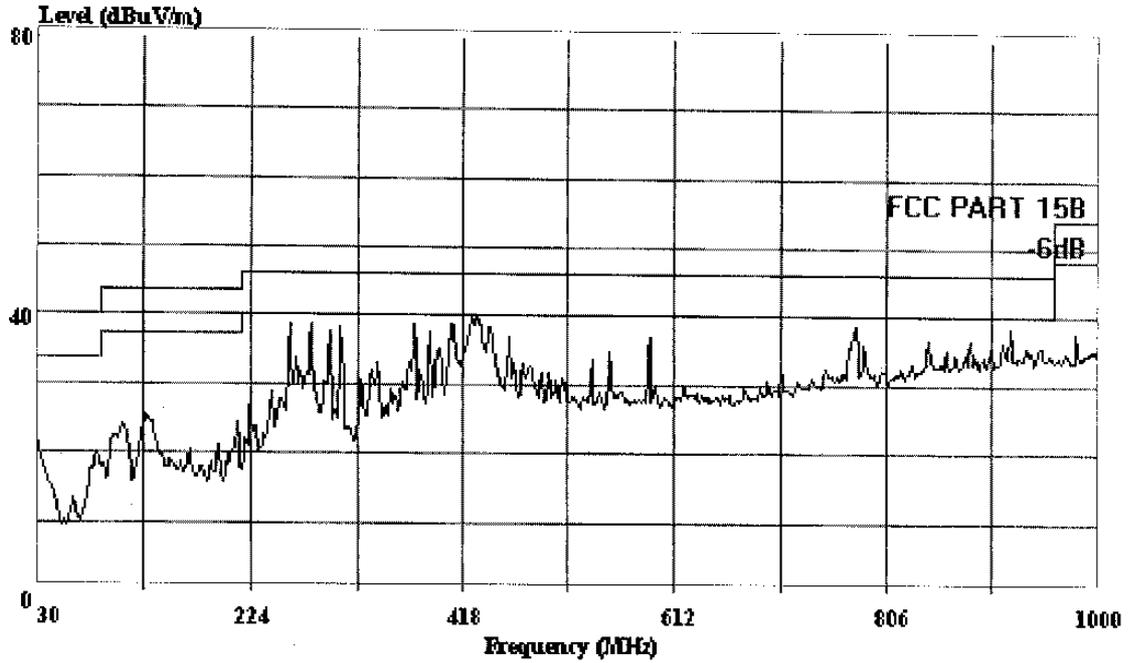
Condition: FCC PART 15B 3m 2598FACTOR VERTICAL.  
 RUT : lvnx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH39 Rx



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Data#: 35 File#: Mad Catz.EMI Date: 2004-02-18 Time: 23:01:22



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Trace:

Ref Trace:

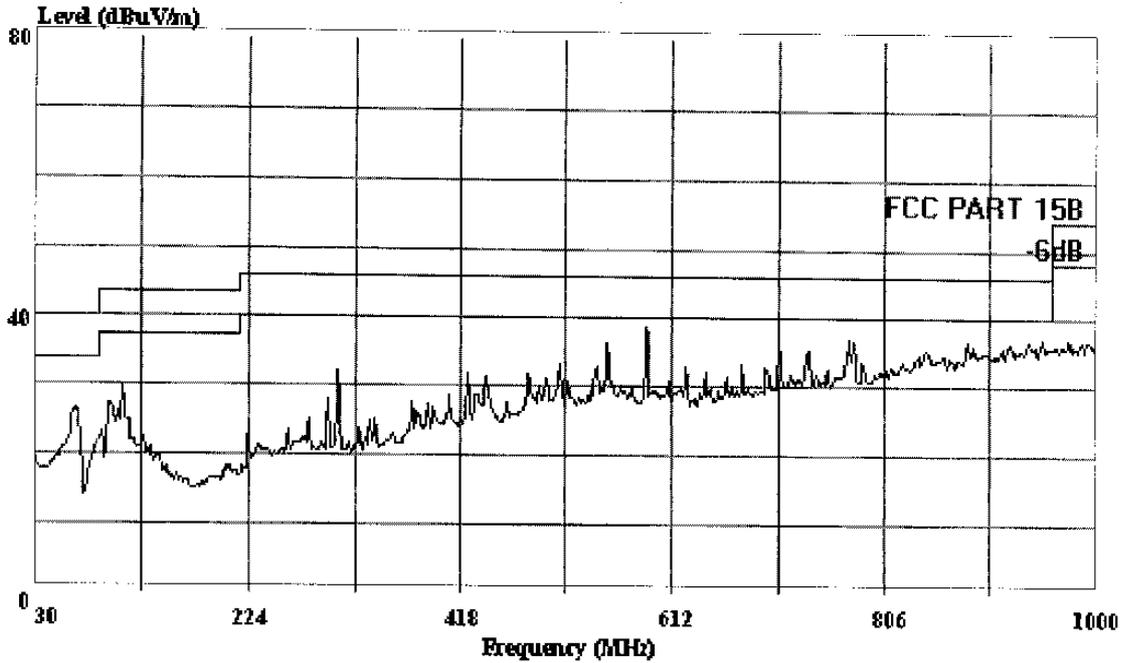
Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH79 Rx



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park  
 Tel: 0755-26639495~7  
 Fax: 0755-26632877

Data#: 34 File#: Mad Catz.EMI Date: 2004-02-18 Time: 22:58:33



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

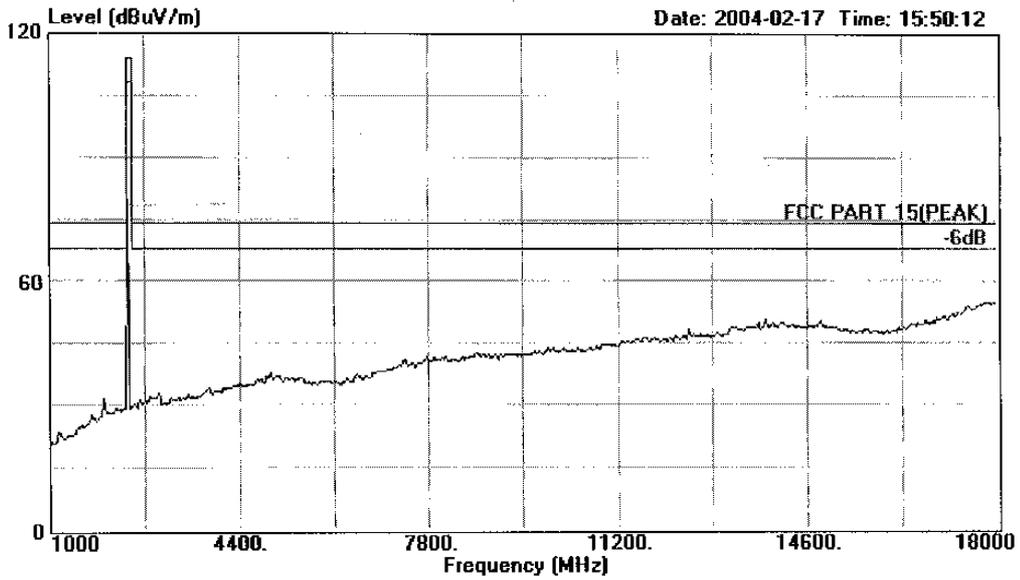
Condition: FCC PART 15B 3m 2598FACTOR VERTICAL  
 EUT : Lvx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V(via PS2)  
 Test Engineer: Richzhv  
 Comment : Temp:24'C Humi:56%  
 Memo : Host CH79 Rx



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Data#: 40 File#: C:\EMI TEST DATA\M\Mad catz.EMI



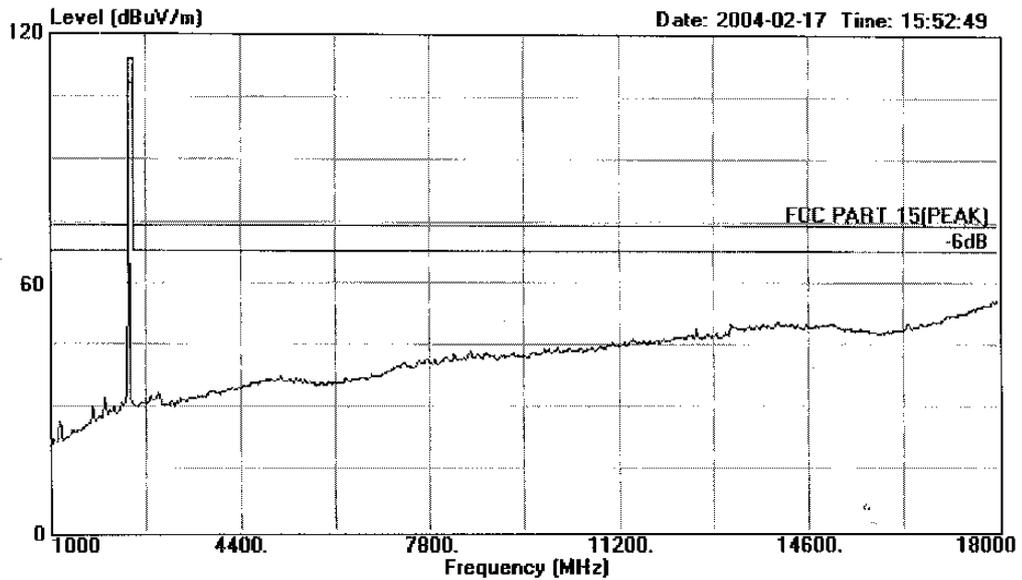
Site : 1# Chamber  
 Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CHO Tx  
 Test comment : Temp:23°C Humi:54%



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Data#: 41 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
 Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CHO Tx  
 Test comment : Temp:23°C Humi:54%

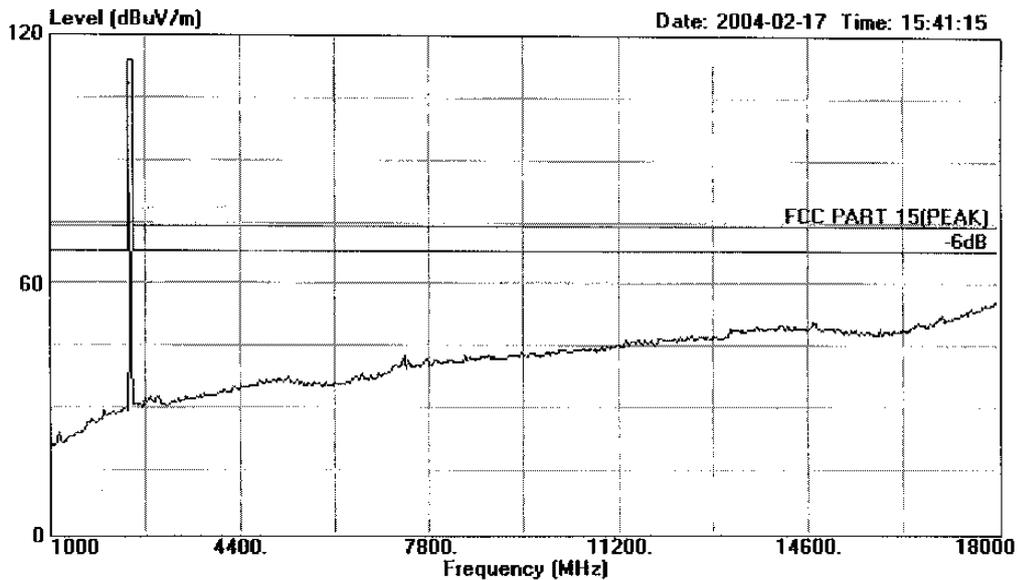


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Data#: 38 File#: C:\EMI TEST DATA\H\Mad catz.EMI



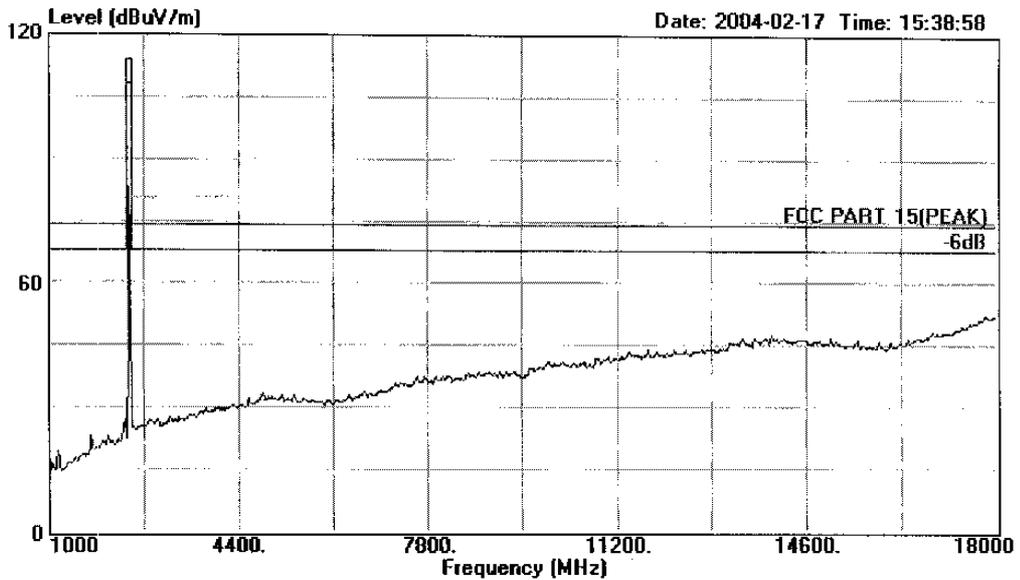
Site : 1# Chamber  
 Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 6V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CH39 Tx  
 Test comment : Temp:23°C Humi:54%



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Data#: 39 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
 Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CH39 Tx  
 Test comment : Temp:23°C Humi:54%

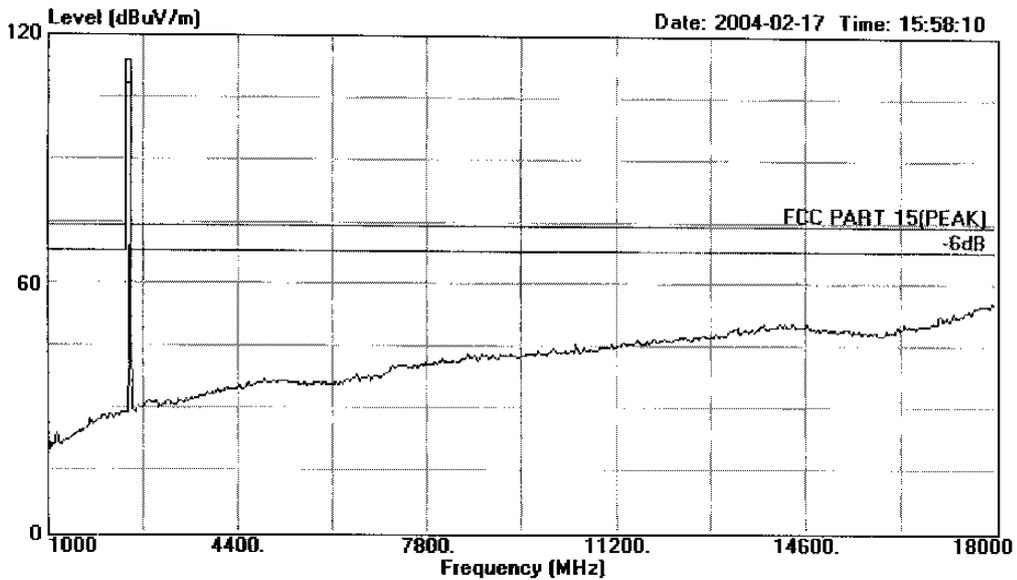


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Data#: 43 File#: C:\EMI TEST DATA\M\Mad catz.EMI



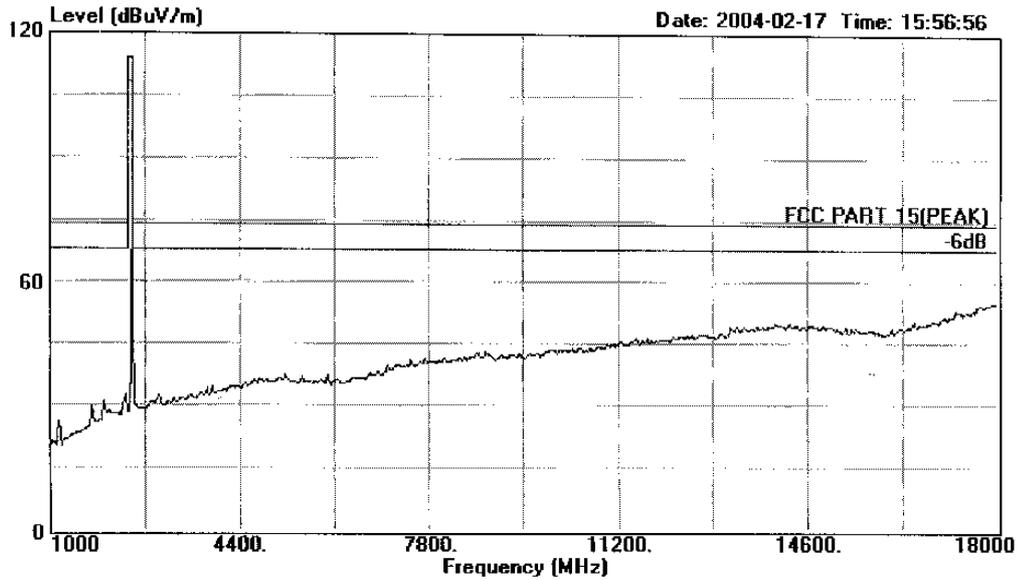
Site : 1# Chamber  
 Condition : FCC PART 15 (PEAK) 3m 3115FACTOR HORIZONTAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CH79 Tx  
 Test comment : Temp:23°C Humi:54%



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Data#: 42 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
 Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CH79 Tx  
 Test comment : Temp:23°C Humi:54%

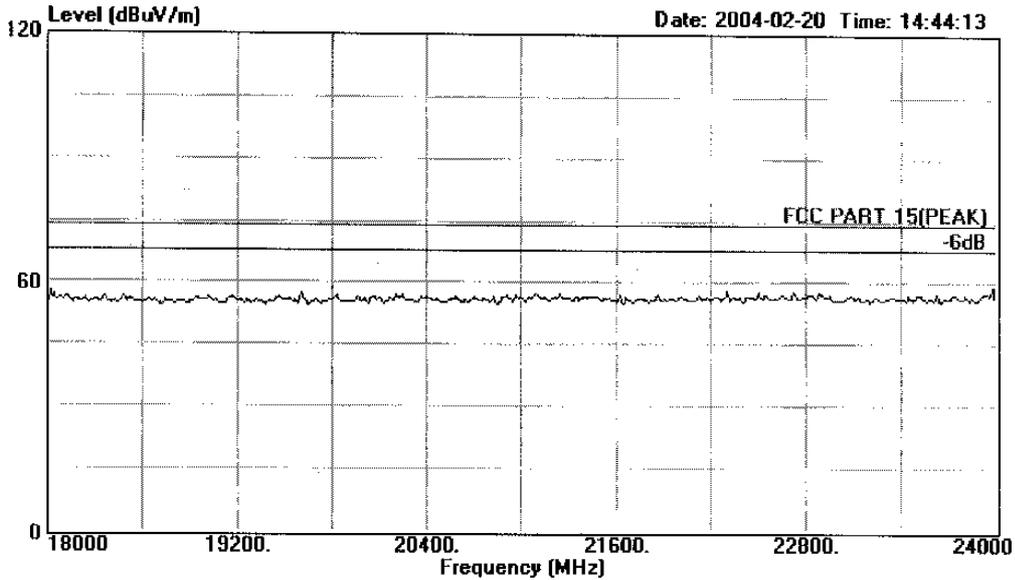


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Data#: 73 File#: C:\EMI TEST DATA\M\Had catz.EMI



Site : 1# Chamber  
 Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CHD Tx  
 Test comment : Temp:23°C Humi:54%

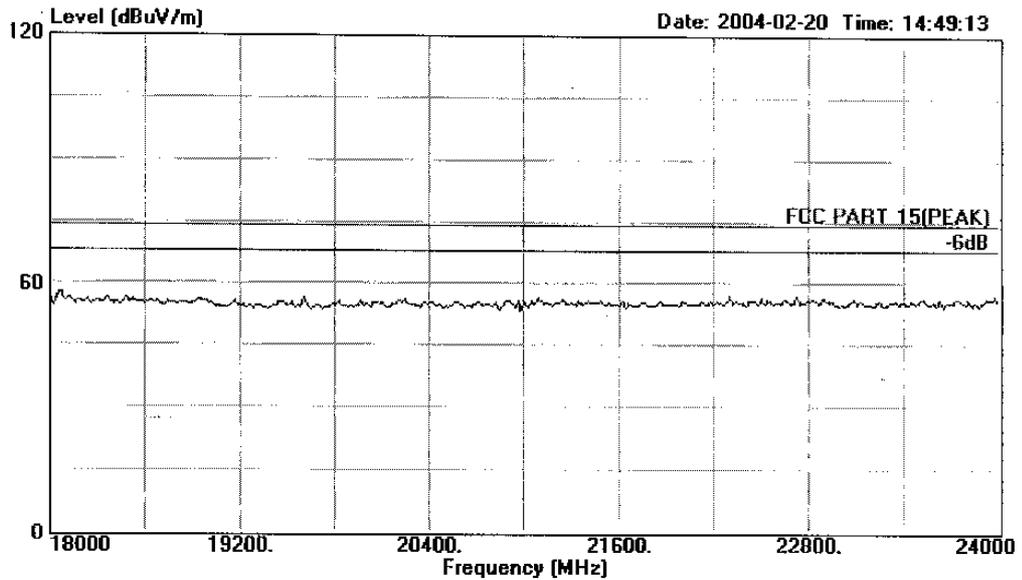


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Data#: 74 File#: C:\EMI TEST DATA\M\Had catz.EMI



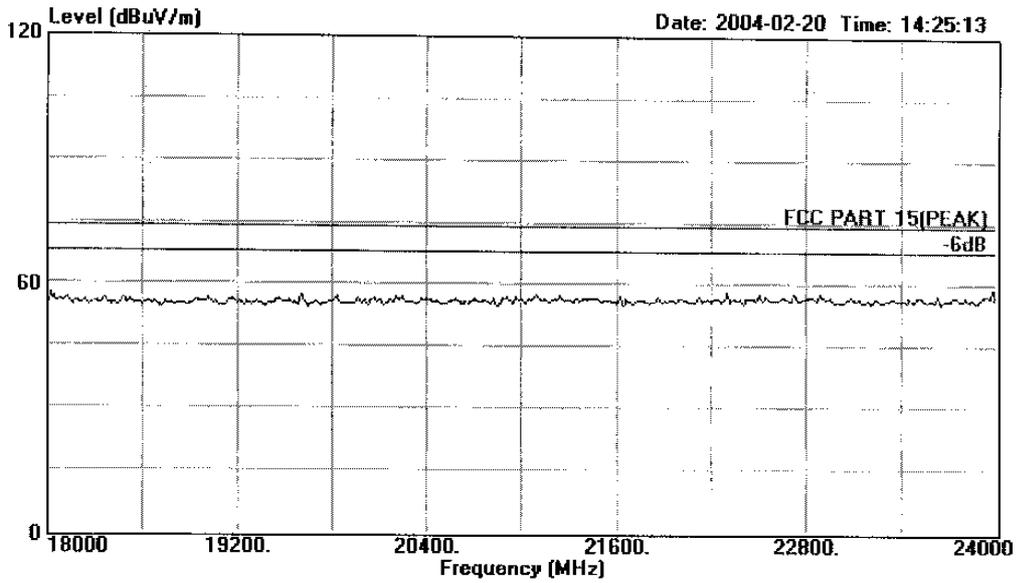
Site : 1# Chamber  
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL  
EUT : Lynx Wireless Controller for PS2  
M/N : 8246B  
Power : DC 8V (via PS2)  
Test Engineer : Richzhy  
Memo : Host CHD Tx  
Test comment : Temp:23°C Humi:54%



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Data#: 69 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
 Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CH39 Tx  
 Test comment : Temp:23°C Humi:54%

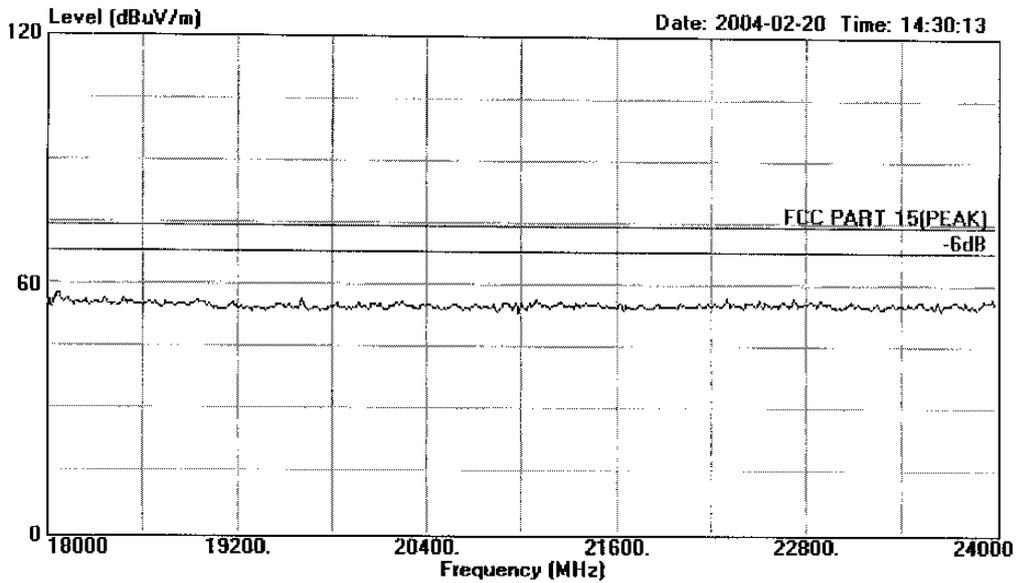


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Data#: 70 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
 Condition : FCC PART 15(PEAK) 3m 311SFACOR VERTICAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : S246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CH39 Tx  
 Test comment : Temp:23°C Humi:54%

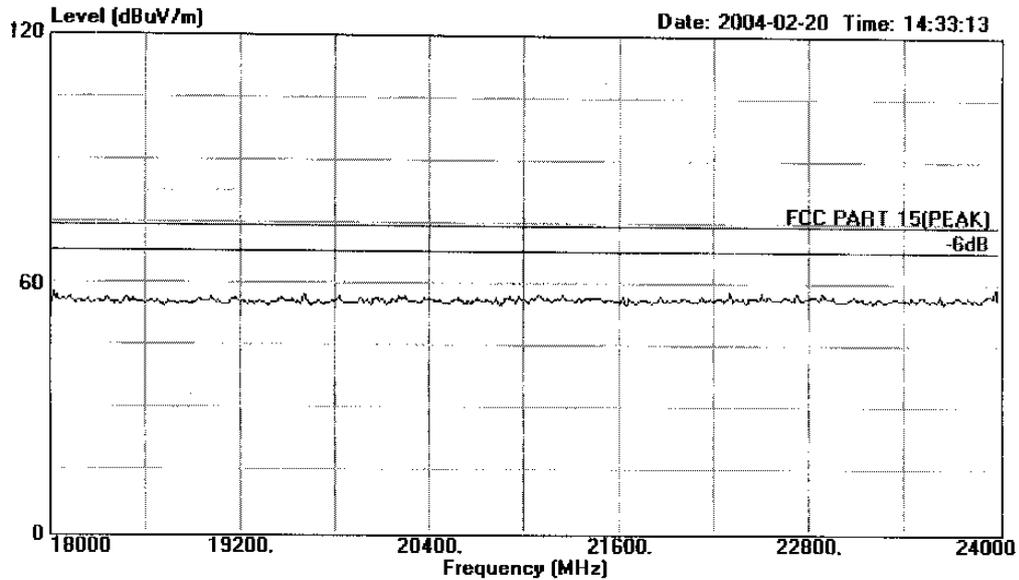


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Data#: 71 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
 Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CH79 Tx  
 Test comment : Temp:23°C Humi:54%

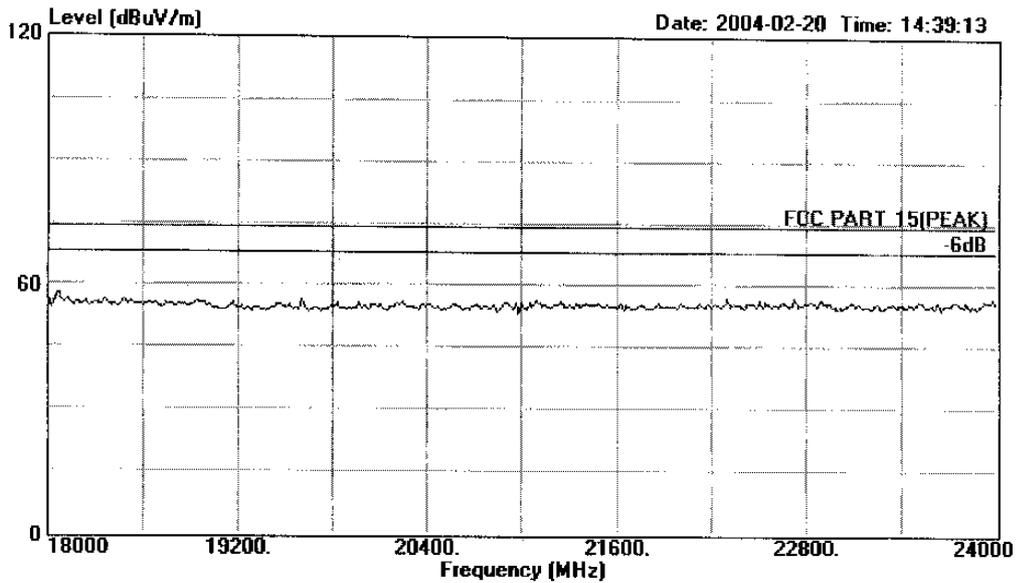


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Data#: 72 File#: C:\EMI TEST DATA\M\Mad catz.EMI



Site : 1# Chamber  
 Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL  
 EUT : Lynx Wireless Controller for PS2  
 M/N : 8246B  
 Power : DC 8V (via PS2)  
 Test Engineer : Richzhy  
 Memo : Host CH79 Tx  
 Test comment : Temp:23°C Humi:54%