

APPLICATION FOR CERTIFICATION
On Behalf of

E-Core Technology (China) Co., Ltd.

xbox 2.4G RF wireless controller (transmit + receiver)

Model Number: HP8131 (controller)

Prepared for : E-Core Technology (China) Co., Ltd.
3rd Building, Wei Dong Long Industry, He Ping East
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China

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Report Number : ACS-F04331
Date of Test : Oct.21, 2004
Date of Report : Oct.26, 2004

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TEST REPORT DECLARATION

Applicant : E-Core Technology (China) Co., Ltd.
Manufacturer : E-Core Technology (China) Co., Ltd.
EUT Description : xbox 2.4G RF wireless controller (transmit + receiver)
(A) MODEL NO. : HP8131 (controller)
(B) SERIAL NO. : F2004102602
(C) POWER SUPPLY : DC 6V

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Apr., 2004.

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.

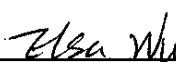
The test results are contained in this test report and AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

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.

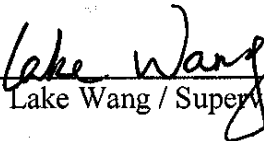
This report must not be used by the applicant to claim product endorsement by NVLAP or any agency of the U.S. Government.

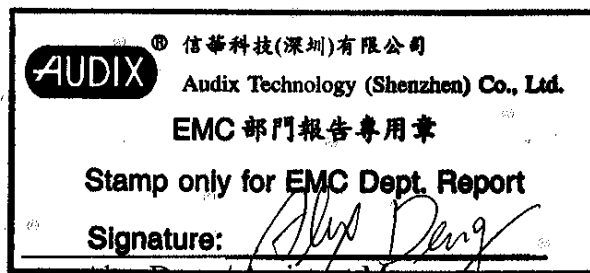
Date of Test : Oct.21, 2004

Prepared by :


Elsa Wu / Assistant

Reviewer :


Lake Wang / Supervisor



Approved & Authorized Signer :

Alex Deng / Assistant Manager

Name of the Representative of the Responsible Party :

Signature :

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	xbox 2.4G RF wireless controller (transmit + receiver)
Model Number	:	HP8131 (controller)
Applicant	:	E-Core Technology (China) Co., Ltd. 3 rd Building, Wei Dong Long Industry, He Ping East Road, Long Hua Town, Shenzhen City, Guang Dong, China
Manufacturer	:	E-Core Technology (China) Co., Ltd. 3 rd Building, Wei Dong Long Industry, He Ping East Road, Long Hua Town, Shenzhen City, Guang Dong, China
Date of Test	:	Oct.21, 2004

1.2. Test Facility

Site Description

- 3m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 90454
Aug. 15, 2003
- 3m & 10m Anechoic Chamber : Certificated by FCC, USA
Registration Number: 794232
Mar. 15, 2004
- EMC Lab. : Certificated by DATech, German
Registration Number: DAT-P-091/99-01
Feb. 02, 2004
- Certificated by NVLAP, USA
NVLAP Code: 200372-0
Mar. 31, 2004
- 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

1.3. Measurement Uncertainty

No.	Item	Uncertainty	Remark
1.	Uncertainty for Conducted Emission Test	1.22dB	
2.	Uncertainty for Radiated Emission Test	3.14dB	3m Chamber
3.	Uncertainty for Radiated Emission Test	3.18dB	10m Chamber
4.	Uncertainty for Power Clamp Test	1.38dB	

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
1.	EMI Spectrum	HP	85422E	3625A00181	May 24, 04	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May 24, 04	1 Year
3.	Amplifier	HP	8447D	2944A07794	Sep. 16, 04	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Jan. 13, 04	1 Year
5.	PC	N/A	586ATX3	N/A	N/A	N/A
6.	Printer	HP	Laserjet6P	SGCF019673	N/A	N/A
7.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	July 31, 04	1/2 Year
8.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	July 31, 04	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	July 31, 04	1/2 Year
10.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	July 31, 04	1/2 Year
11.	Coaxial Switch	Anritsu	MP59B	M73989	May. 27, 04	1/2 Year
12.	Spectrum	Agilent	E4407B	MY41440292	May 24, 04	1 Year
13.	Amp	HP	8449B	3008A00863	May 24, 04	1 Year
14.	Antenna	EMCO	3115	9607-4877	Jun. 15, 04	1.5 Year

3.2. Block Diagram of Test Setup

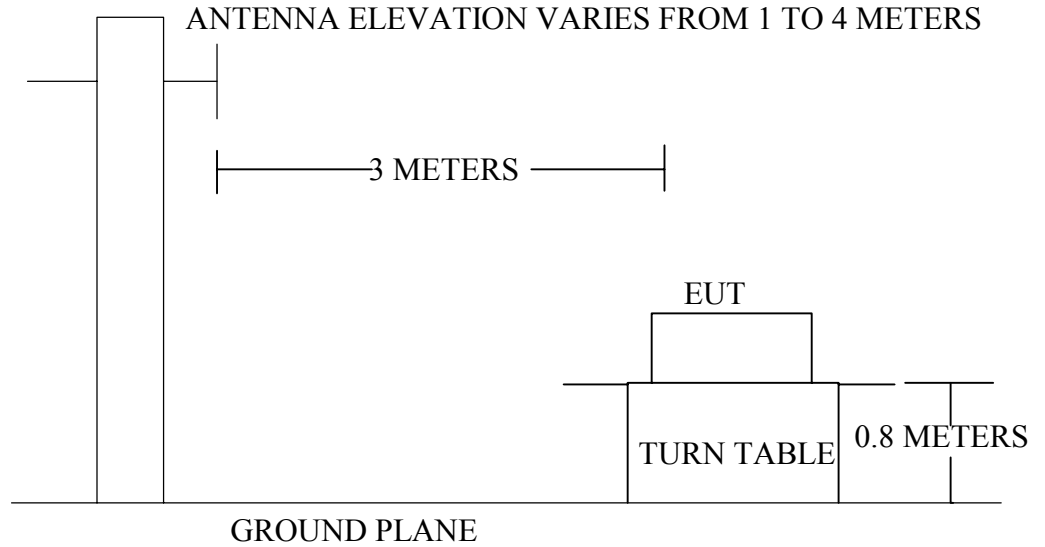
3.2.1. Block diagram of connection between the EUT and simulators

EUT

(EUT: xbox 2.4G RF wireless controller (transmit + receiver))

3.2.2. In Anechoic Chamber

ANTENNA TOWER



3.3. 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	Local Oscillator: 114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$
 - (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.

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.xbox 2.4G RF wireless controller (transmit + receiver) (EUT)

Model Number : HP8131 (controller)
Serial Number : F2004102602
Manufacturer : E-Core Technology (China) Co., Ltd.

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

3.5.Operating Condition of EUT

3.5.1.Setup the EUT as shown in Section 3.2..

3.5.2.Let the EUT work in test mode (Channel 1/Channel 40/Channel 79) 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 (Channel 1/Channel 40/Channel 79) 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 :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 1
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
33.880	19.18	1.14	0.31	20.63	-19.37	40.00
41.640	15.05	1.21	5.34	21.61	-18.39	40.00
138.640	11.92	2.40	3.86	18.17	-25.33	43.50
169.680	10.98	2.70	7.26	20.94	-22.56	43.50
266.680	13.28	3.49	4.15	20.91	-25.09	46.00
557.680	19.46	6.18	3.17	28.81	-17.19	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 557.680MHz with corrected signal level of 28.81dBμV/m (Limit is 46.00dBμV/m) when the antenna was at horizontal polarization and at 1.4m 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:

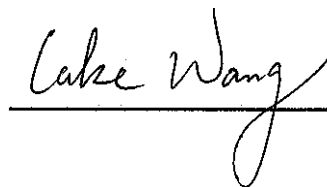
Cahe Wang

Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 1
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m
42.610	9.37	1.23	6.55	17.15	-22.85	40.00
62.010	6.63	1.54	6.92	15.08	-24.92	40.00
139.610	11.31	2.42	2.99	16.71	-26.79	43.50
294.810	12.86	3.73	2.89	19.48	-26.52	46.00
469.410	16.91	5.39	2.71	25.01	-20.99	46.00
566.410	19.38	6.13	2.02	27.53	-18.47	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 566.410MHz with corrected signal level of 27.53dBμV/m (Limit is 46.00dBμV/m) when the antenna was at vertical polarization and at 1.0m 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:

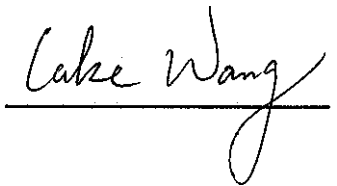


Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 40
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
41.640	15.05	1.21	5.34	21.61	-18.39	40.00
169.680	10.98	2.70	5.26	18.94	-24.56	43.50
266.680	13.28	3.49	5.15	21.91	-24.09	46.00
383.080	15.76	4.45	2.91	23.12	-22.88	46.00
518.880	17.92	5.88	4.27	28.07	-17.93	46.00
654.680	19.75	6.41	2.84	29.00	-17.00	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 654.680MHz with corrected signal level of 29.00dBμV/m (Limit is 46.00dBμV/m) when the antenna was at horizontal polarization and at 1.0m 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:

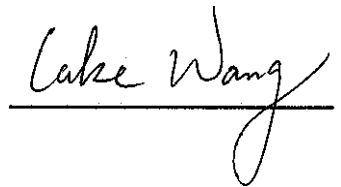


Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 40
Test Engineer:	Seco		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Vertical	Vertical	Limits	
	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
42.610	9.37	1.23	6.55	17.15	-22.85	40.00
61.040	6.91	1.51	10.04	18.46	-21.54	40.00
136.700	11.30	2.37	4.72	18.39	-25.11	43.50
388.900	15.01	4.53	4.20	23.75	-22.25	46.00
544.100	18.55	6.12	3.15	27.82	-18.18	46.00
699.300	20.61	6.57	2.70	29.88	-16.12	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 699.300MHz with corrected signal level of 29.88dBμV/m (Limit is 46.00dBμV/m) when the antenna was at vertical polarization and at 1.0m 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:

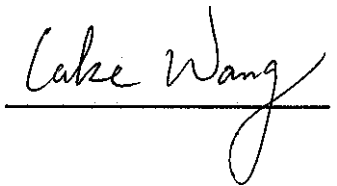


Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 79
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
41.640	15.05	1.21	5.34	21.61	-18.39	40.00
138.640	11.92	2.40	3.86	18.17	-25.33	43.50
170.650	10.68	2.71	4.96	18.35	25.15	43.50
325.850	14.32	4.04	3.92	22.28	23.72	46.00
519.850	17.96	5.88	4.08	27.92	18.08	46.00
616.850	19.28	6.44	2.75	28.46	17.54	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 616.850MHz with corrected signal level of 28.46dBμV/m (Limit is 46.00dBμV/m) when the antenna was at horizontal polarization and at 1.0m 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:

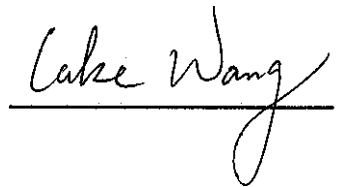


Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 79
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m
41.640	10.54	1.21	5.94	17.70	-22.30	40.00
61.040	6.91	1.51	10.04	18.46	-21.54	40.00
138.640	11.18	2.40	3.89	17.46	-26.04	43.50
349.130	14.02	4.18	4.55	22.75	-23.25	46.00
504.330	17.79	5.62	3.16	26.57	-19.43	46.00
620.730	19.34	6.34	3.90	29.58	-16.42	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 620.730MHz with corrected signal level of 29.58dBμV/m (Limit is 46.00dBμV/m) when the antenna was at vertical polarization and at 1.4m 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:



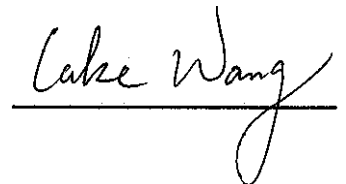
Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 1
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2402.590	29.03	3.45	41.90	74.38	-19.62	94.00	Average
4805.680	33.91	4.77	8.90	47.58	-6.42	54.00	Average
7028.350	37.06	7.03	4.89	48.98	-5.02	54.00	Average

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2402.590	29.03	3.45	53.90	86.38	-27.62	114.00	Peak
4805.680	33.91	4.77	24.90	63.58	-10.42	74.00	Peak
7028.346	37.06	7.03	24.89	68.98	-5.02	74.00	Peak

- Remark: 1. All readings are Peak and Average values.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
 3. The bandwidth of the RBW is set at 1MHz and VBW is set at 1MHz.

Reviewer:



Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 1
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2402.590	29.03	3.45	44.90	77.38	-16.62	94.00	Average
4805.680	33.91	4.77	9.90	48.58	-5.42	54.00	Average
7028.350	37.06	7.03	4.89	48.98	-5.02	54.00	Average

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2402.590	29.03	3.45	56.90	89.38	-24.62	114.00	Peak
4805.680	33.91	4.77	27.90	66.58	-7.42	74.00	Peak
7028.346	37.06	7.03	23.89	67.98	-6.02	74.00	Peak

Remark: 1. All readings are Peak and Average values.

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

3. The bandwidth of the RBW is set at 1MHz and VBW is set at 1MHz.

Reviewer:

Choke Wang

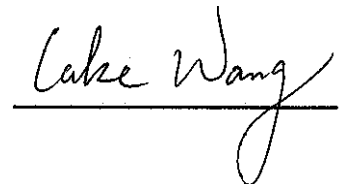
Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 40
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2465.600	29.15	3.80	43.29	76.24	-17.76	94.00	Average
4931.300	34.20	4.90	9.90	49.00	-5.00	54.00	Average
7396.950	37.63	7.22	4.25	49.10	-4.90	54.00	Average

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2465.600	29.15	3.80	56.29	89.24	-24.76	114.00	Peak
4931.300	34.20	4.90	28.90	68.00	-6.00	74.00	Peak
7396.950	37.63	7.22	23.25	68.10	-5.90	74.00	Peak

Remark: 1. All readings are Peak and Average values.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
 3. The bandwidth of the RBW is set at 1MHz and VBW is set at 1MHz.

Reviewer:



Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 40
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2465.600	29.15	3.80	43.29	76.24	-17.76	94.00	Average
4931.300	34.20	4.90	9.90	49.00	-5.00	54.00	Average
7396.950	37.63	7.22	4.25	49.10	-4.90	54.00	Average

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2465.600	29.15	3.80	57.29	90.24	-23.76	114.00	Peak
4931.300	34.20	4.90	29.90	69.00	-5.00	74.00	Peak
7396.950	37.63	7.22	24.25	69.10	-4.90	74.00	Peak

Remark: 1. All readings are Peak and Average values.

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

3. The bandwidth of the RBW is set at 1MHz and VBW is set at 1MHz.

Reviewer:

Choke Wang

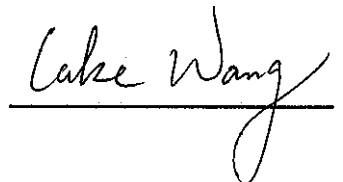
Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 79
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2480.740	29.19	3.91	42.50	75.60	-18.40	94.00	Average
4961.820	34.29	4.93	8.90	48.12	-5.88	54.00	Average
7442.730	37.72	7.24	2.80	47.76	-6.24	54.00	Average

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2480.740	29.19	3.91	52.50	85.60	-28.40	114.00	Peak
4961.820	34.29	4.93	28.90	68.12	-5.88	74.00	Peak
7442.726	37.72	7.24	22.80	67.76	-6.24	74.00	Peak

Remark: 1. All readings are Peak and Average values.
 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
 3. The bandwidth of the RBW is set at 1MHz and VBW is set at 1MHz.

Reviewer:



Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	54%
Model No. :	HP8131 (controller)	Test Mode :	Channel 79
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2480.740	29.19	3.91	42.50	75.60	-18.40	94.00	Average
4961.820	34.29	4.93	8.90	48.12	-5.88	54.00	Average
7442.730	37.72	7.24	2.80	47.76	-6.24	54.00	Average

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2480.740	29.19	3.91	51.50	84.60	-29.40	114.00	Peak
4961.820	34.29	4.93	28.90	68.12	-5.88	74.00	Peak
7442.726	37.72	7.24	22.80	67.76	-6.24	74.00	Peak

Remark: 1. All readings are Peak and Average values.

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

3. The bandwidth of the RBW is set at 1MHz and VBW is set at 1MHz.

Reviewer:

Choke Wang



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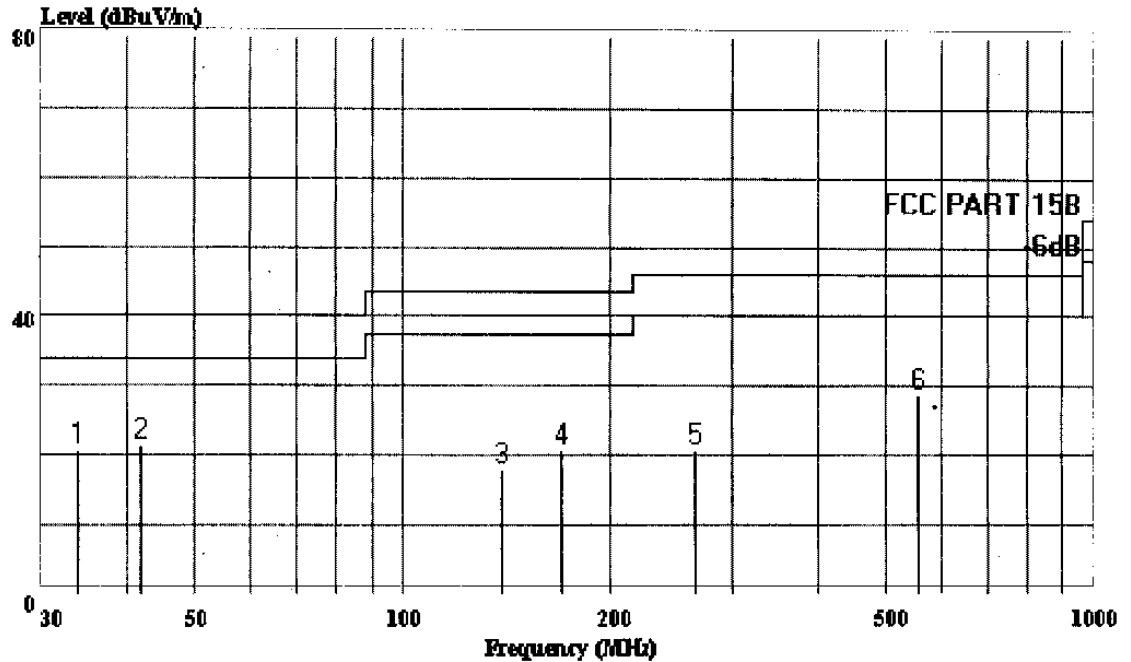
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 28 File#: E-core.emi

Date: 2004-10-21 Time: 19:59:22



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : xbox 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP8131 (controller)

Power : Battery DC6V

Test Mode: Channel 1

Engineer : Seco

Memo : Temp:24'C Humi:54%

: Antpos:1.4m Tablepos:0'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	33.880	20.63	-19.37	40.00	0.31	19.18	1.14
2	41.640	21.61	-18.39	40.00	5.34	15.05	1.21
3	138.640	18.17	-25.33	43.50	3.86	11.92	2.40
4	169.680	20.94	-22.56	43.50	7.26	10.98	2.70
5	266.680	20.91	-25.09	46.00	4.15	13.28	3.49
6	557.680	28.81	-17.19	46.00	3.17	19.46	6.18



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

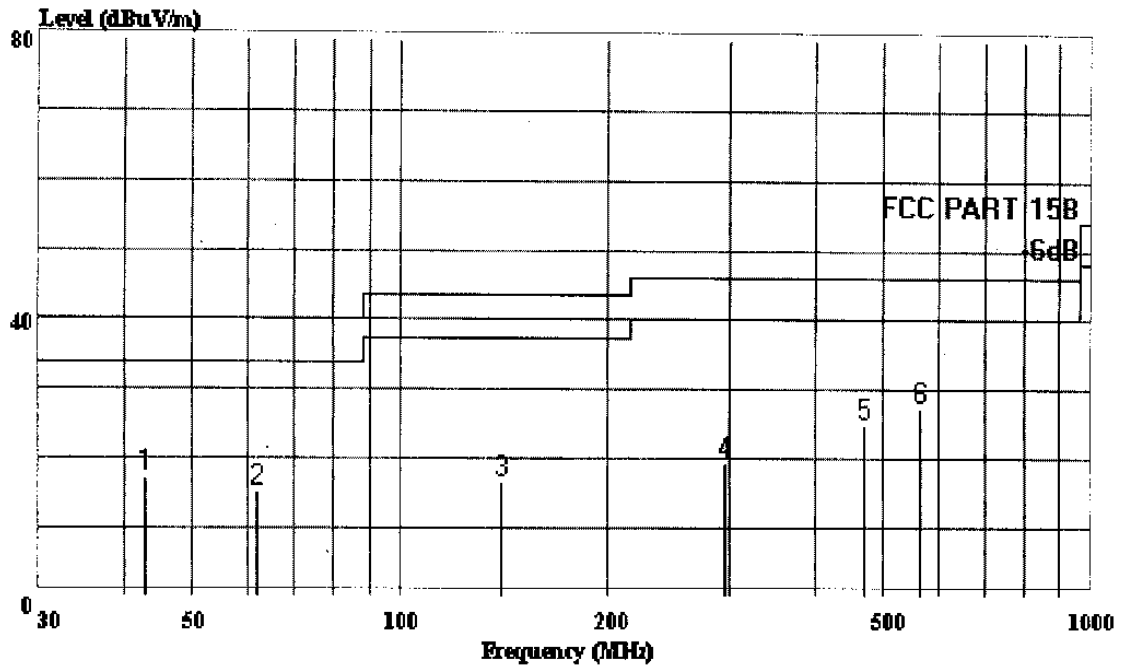
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 26 File#: E-core.emi

Date: 2004-10-21 Time: 19:44:25



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : xbox 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP8131 (controller)

Power : Battery DC6V

Test Mode: Channel 1

Engineer : Seco

Memo : Temp:24'C Humi:54%

: Antpos:1.0m Tablepos:0'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	42.610	17.15	-22.85	40.00	6.55	9.37	1.23
2	62.010	15.08	-24.92	40.00	6.92	6.63	1.54
3	139.610	16.71	-26.79	43.50	2.99	11.31	2.42
4	294.810	19.48	-26.52	46.00	2.89	12.86	3.73
5	469.410	25.01	-20.99	46.00	2.71	16.91	5.39
6	566.410	27.53	-18.47	46.00	2.02	19.38	6.13



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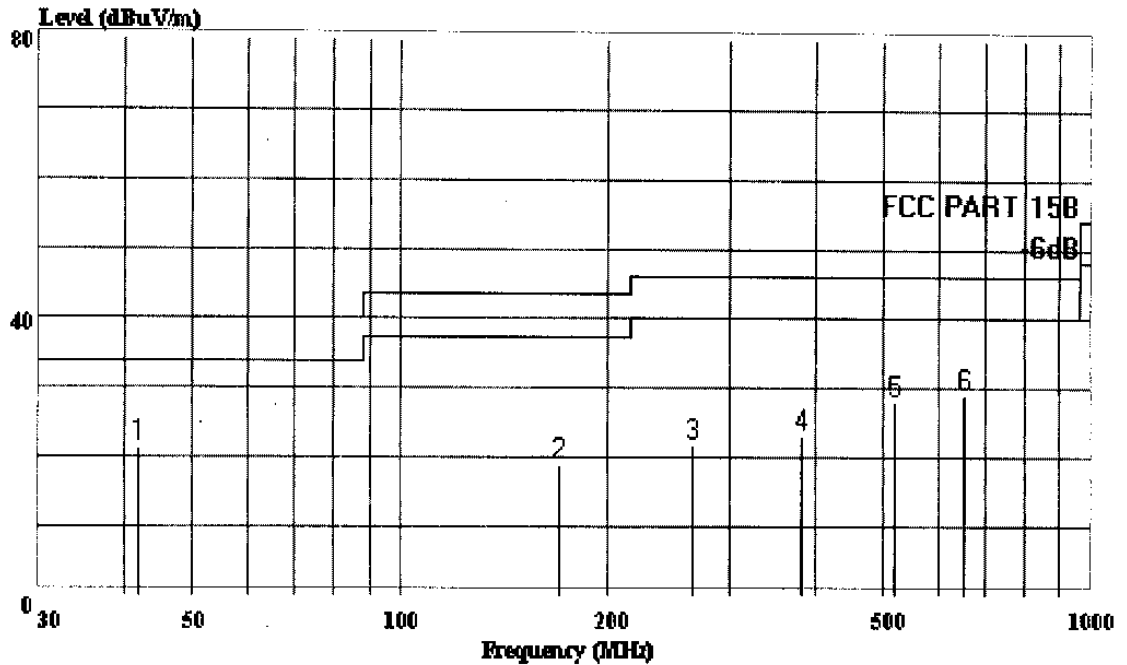
Shenzhen Science & Ind. Park

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Fax: 0755-26632877

Data#: 32 File#: E-core.emi

Date: 2004-10-21 Time: 20:15:39



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : xbox 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP8131 (controller)

Power : Battery DC6V

Test Mode: Channel 40

Engineer : Seco

Memo : Temp:24'C Humi:54%

: Antpos:1.0m Tablepos:0'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	41.640	21.61	-18.39	40.00	5.34	15.05	1.21
2	169.680	18.94	-24.56	43.50	5.26	10.98	2.70
3	266.680	21.91	-24.09	46.00	5.15	13.28	3.49
4	383.080	23.12	-22.88	46.00	2.91	15.76	4.45
5	518.880	28.07	-17.93	46.00	4.27	17.92	5.88
6	654.680	29.00	-17.00	46.00	2.84	19.75	6.41



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

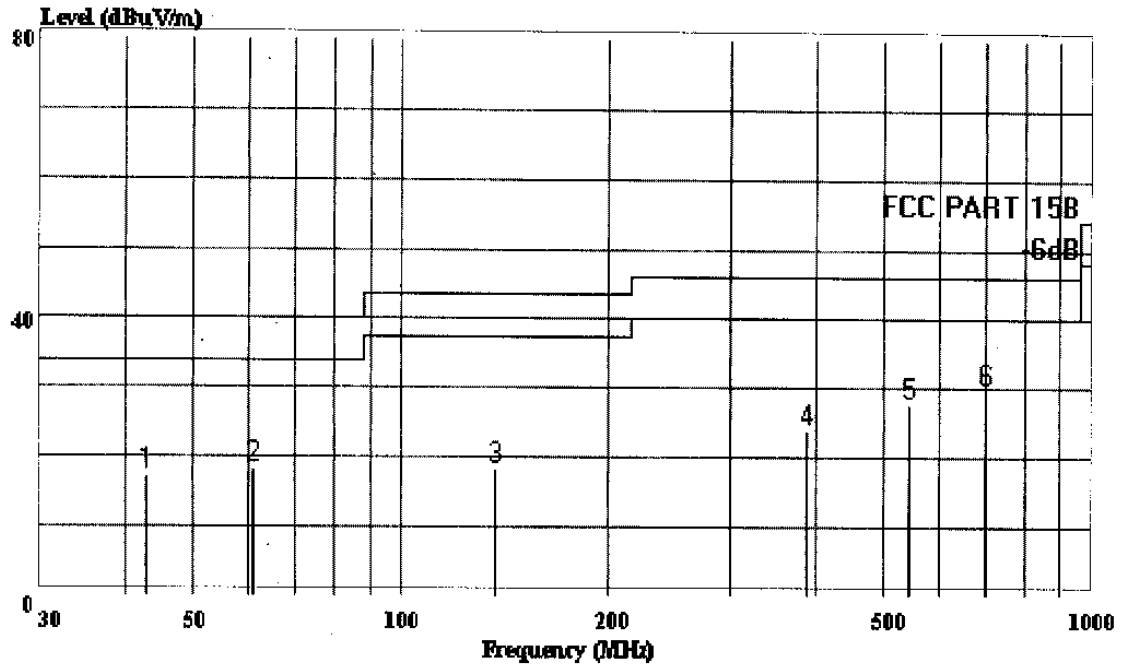
Shenzhen Science & Ind. Park

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Fax: 0755-26632877

Data#: 30 File#: E-core.emi

Date: 2004-10-21 Time: 20:06:36



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : xbox 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP8131 (controller)

Power : Battery DC6V

Test Mode: Channel 40

Engineer : Seco

Memo : Temp:24'C Humi:54%

: Antpos:1.0m Tablepos:0'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	42.610	17.15	-22.85	40.00	6.55	9.37	1.23
2	61.040	18.46	-21.54	40.00	10.04	6.91	1.51
3	136.700	18.39	-25.11	43.50	4.72	11.30	2.37
4	388.900	23.75	-22.25	46.00	4.20	15.01	4.53
5	544.100	27.82	-18.18	46.00	3.15	18.55	6.12
6	699.300	29.88	-16.12	46.00	2.70	20.61	6.57



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

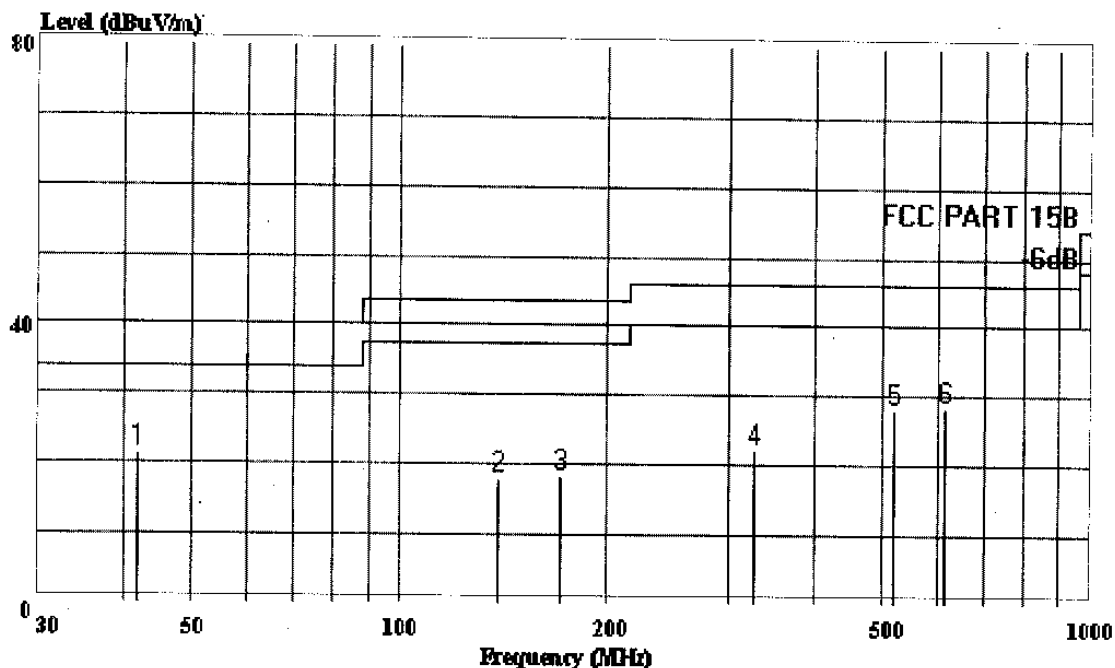
Shenzhen Science & Ind. Park

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Fax: 0755-26632877

Data#: 34 File#: E-core.emi

Date: 2004-10-21 Time: 19:58:01



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : xbox 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP8131 (controller)

Power : Battery DC6V

Test Mode: Channel 79

Engineer : Seco

Memo : Temp:24'C Humi:54%

: Antpos:1.0m Tablepos:0'

Page: 1

			Over	Limit	Read	Probe	Cable
	Freq	Level	Limit	Line	Level	Factor	Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	41.640	21.61	-18.39	40.00	5.34	15.05	1.21
2	138.640	18.17	-25.33	43.50	3.86	11.92	2.40
3	170.650	18.35	-25.15	43.50	4.96	10.68	2.71
4	325.850	22.28	-23.72	46.00	3.92	14.32	4.04
5	519.850	27.92	-18.08	46.00	4.08	17.96	5.88
6	616.850	28.46	-17.54	46.00	2.75	19.28	6.44



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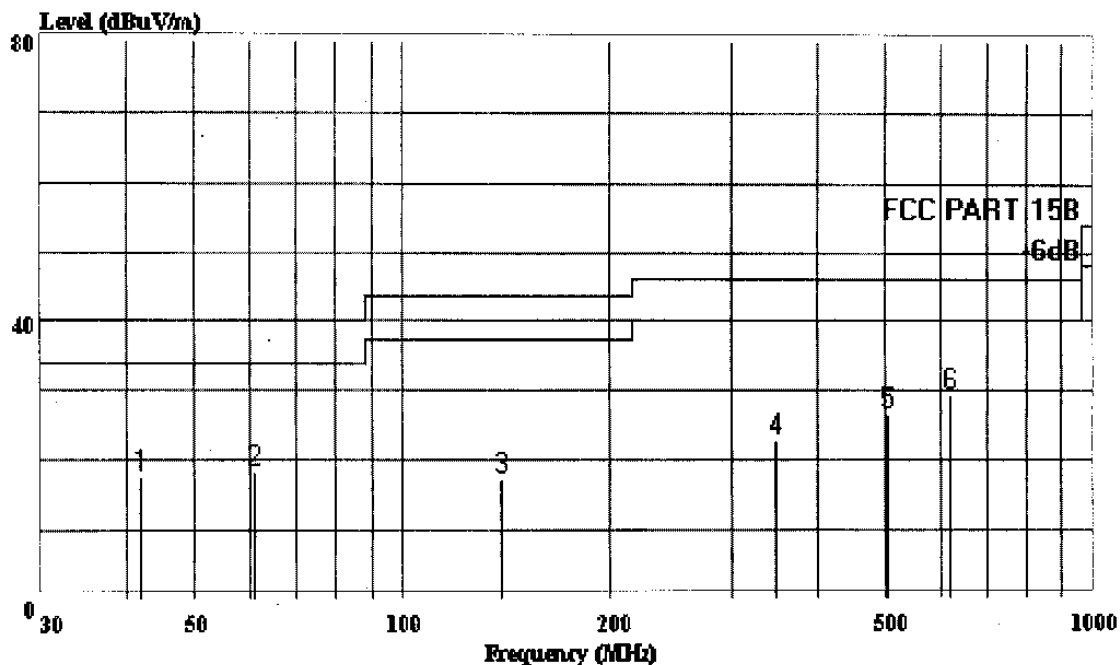
Shenzhen Science & Ind. Park

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Fax: 0755-26632877

Data#: 36 File#: E-core.emi

Date: 2004-10-21 Time: 20:21:48



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : xbox 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP8131 (controller)

Power : Battery DC6V

Test Mode: Channel 79

Engineer : Seco

Memo : Temp:24'C Humi:54%

: Antpos:1.4m Tablepos:0'

Page: 1

			Over	Limit	Read	Probe	Cable
	Freq	Level	Limit	Line	Level	Factor	Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	41.640	17.70	-22.30	40.00	5.94	10.54	1.21
2	61.040	18.46	-21.54	40.00	10.04	6.91	1.51
3	138.640	17.46	-26.04	43.50	3.89	11.18	2.40
4	349.130	22.75	-23.25	46.00	4.55	14.02	4.18
5	504.330	26.57	-19.43	46.00	3.16	17.79	5.62
6	620.730	29.58	-16.42	46.00	3.90	19.34	6.34



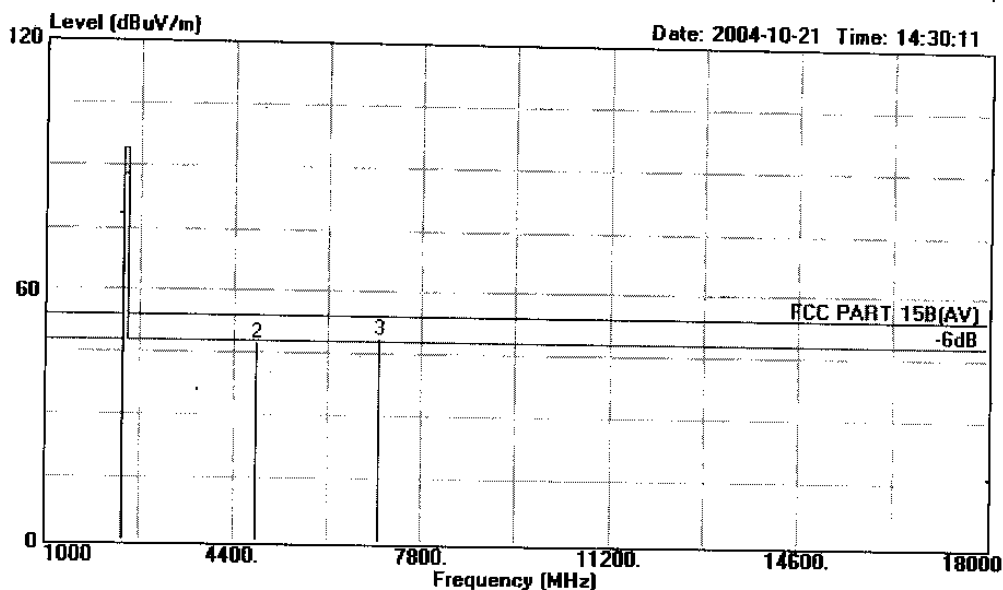
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Nantou, Shenzhen, Guangdong, China
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Data#: 66

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

	Freq	Level	Over Limit	Limit	Read	Probe	Cable	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	Remark
1	2402.590	74.38	-19.62	94.00	41.90	29.03	3.45	Average
2	4805.680	47.58	-6.42	54.00	8.90	33.91	4.77	Average
3	7028.350	48.98	-5.02	54.00	4.89	37.06	7.03	Average

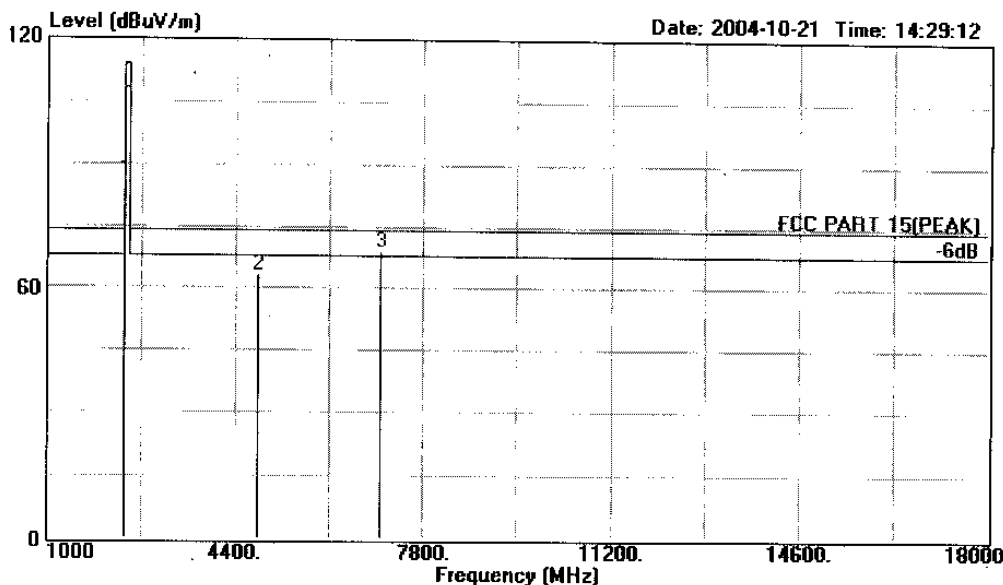


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Data#: 65 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24°C Humi:54%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2402.590	86.38	-27.62	114.00	53.90	29.03	3.45	Peak
2	4805.680	63.58	-10.42	74.00	24.90	33.91	4.77	Peak
3	7028.346	68.98	-5.02	74.00	24.89	37.06	7.03	Peak



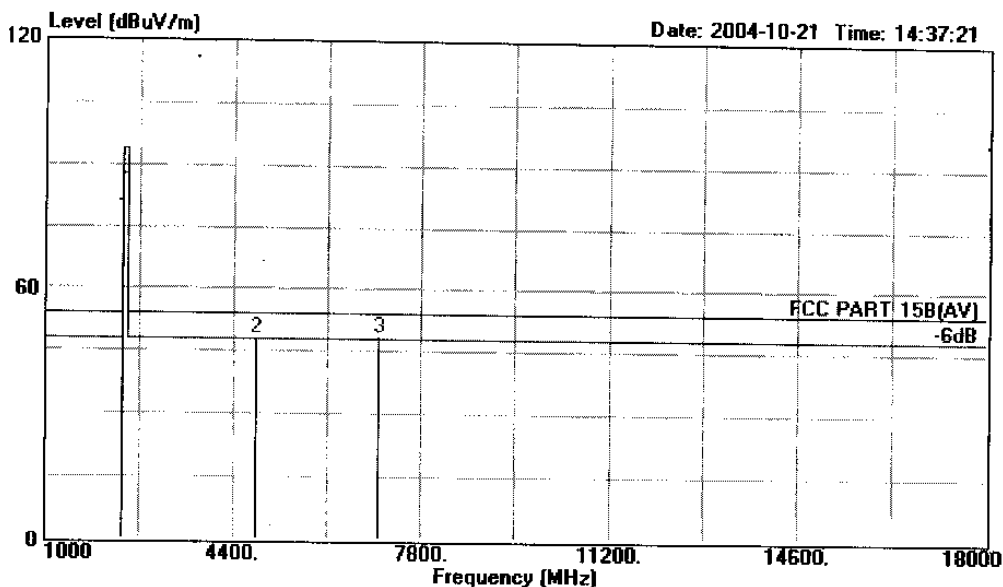
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Data#: 69

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24°C Humi:54%

	Freq	Level	Over Limit	Limit	Read	Probe	Cable	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	Remark
1	2402.590	77.38	-16.62	94.00	44.90	29.03	3.45	Average
2	4805.680	48.58	-5.42	54.00	9.90	33.91	4.77	Average
3	7028.350	48.98	-5.02	54.00	4.89	37.06	7.03	Average



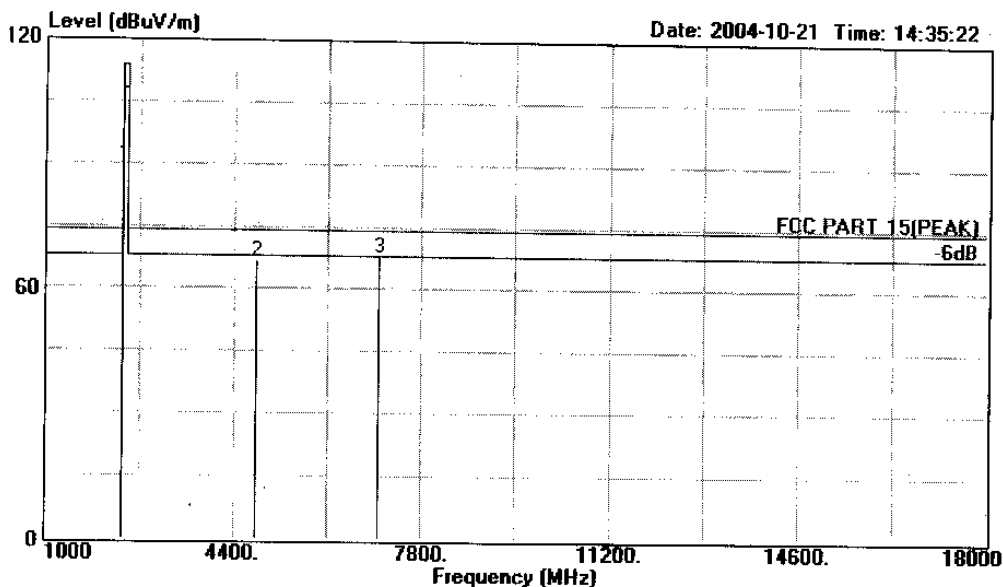
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AUDIX Technology (Shenzhen) Co., Ltd.

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Nantou, Shenzhen, Guangdong, China
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Data#: 68

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

	Freq	Level	Over Limit	Limit	Read	Probe	Cable	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	Remark
1	2402.590	89.38	-24.62	114.00	56.90	29.03	3.45	Peak
2	4805.680	66.58	-7.42	74.00	27.90	33.91	4.77	Peak
3	7028.346	67.98	-6.02	74.00	23.89	37.06	7.03	Peak



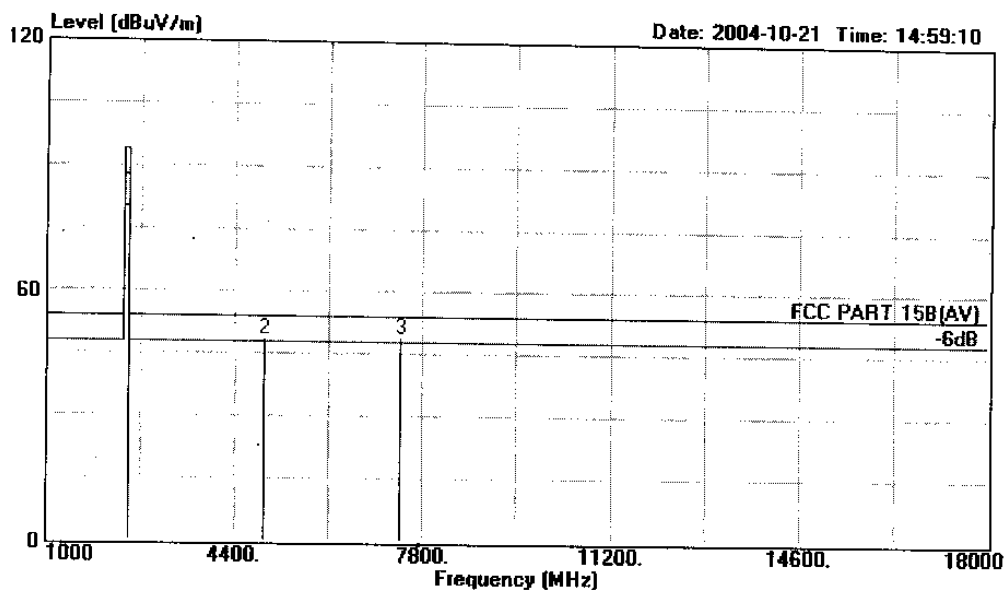
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AUDIX Technology (Shenzhen) Co., Ltd.

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Nantou, Shenzhen, Guangdong, China
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Data#: 77

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
: (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2465.600	76.24	-17.76	94.00	43.29	29.15	3.80	Average
2 !	4931.300	49.00	-5.00	54.00	9.90	34.20	4.90	Average
3 !	7396.950	49.10	-4.90	54.00	4.25	37.63	7.22	Average

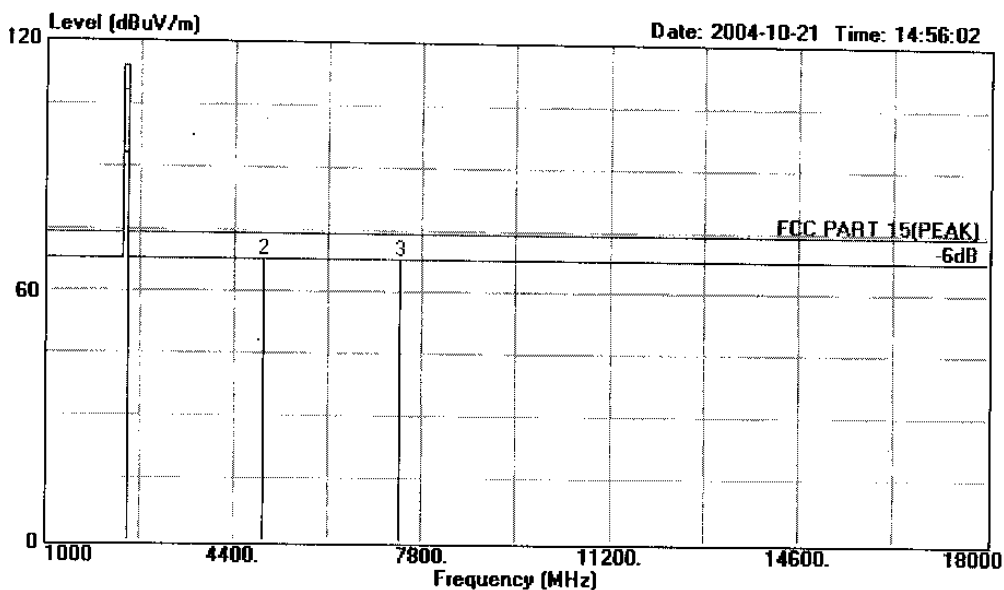


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Data#: 76 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

			Over	Limit	Read	Probe	Cable	
Freq	Level	Limit	Line	Level	Factor	Loss	Remark	
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB		
1	2465.600	89.24	-24.76	114.00	56.29	29.15	3.80	Peak
2	4931.300	68.00	-6.00	74.00	28.90	34.20	4.90	Peak
3	7396.950	68.10	-5.90	74.00	23.25	37.63	7.22	Peak



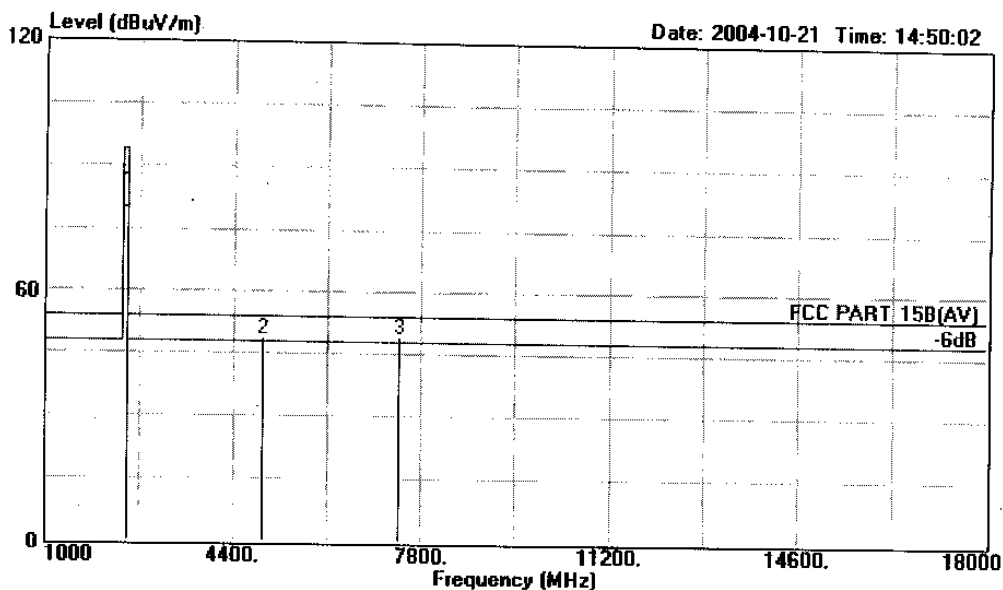
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Data#: 74

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2465.600	76.24	-17.76	94.00	43.29	29.15	3.80	Average
2	4931.300	49.00	-5.00	54.00	9.90	34.20	4.90	Average
3	7396.950	49.10	-4.90	54.00	4.25	37.63	7.22	Average



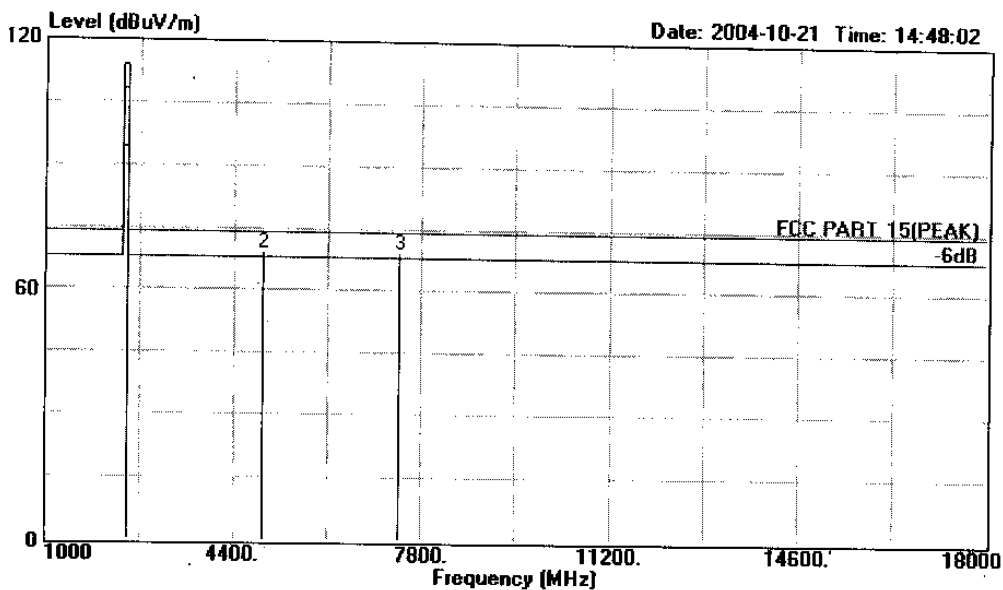
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Data#: 73

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24°C Humi:54%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2465.600	90.24	-23.76	114.00	57.29	29.15	3.80	Peak
2	4931.300	69.00	-5.00	74.00	29.90	34.20	4.90	Peak
3	7396.950	69.10	-4.90	74.00	24.25	37.63	7.22	Peak

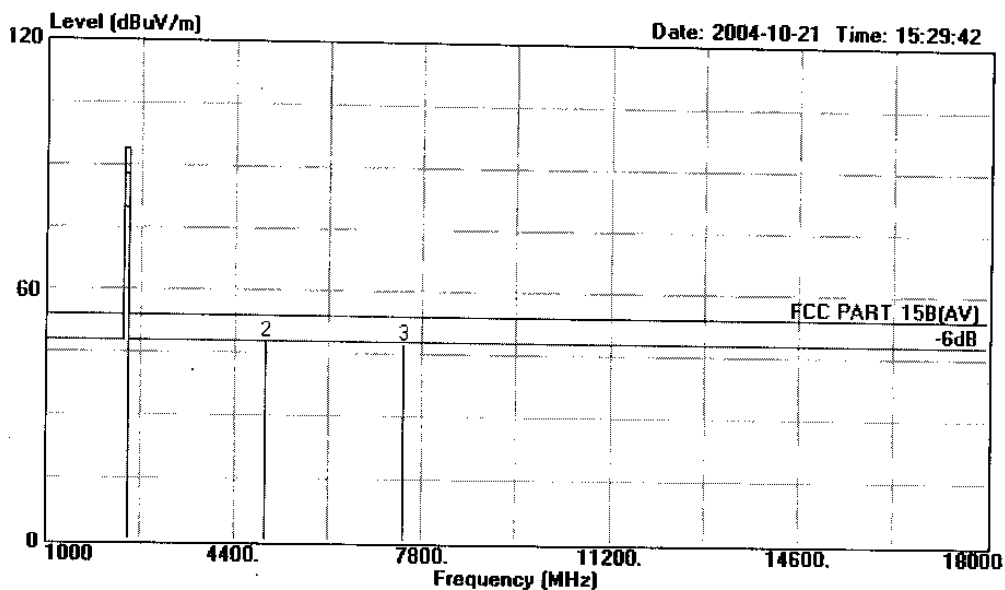


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Data#: 85 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2480.740	75.60	-18.40	94.00	42.50	29.19	3.91	Average
2	4961.820	48.12	-5.88	54.00	8.90	34.29	4.93	Average
3	7442.730	47.76	-6.24	54.00	2.80	37.72	7.24	Average

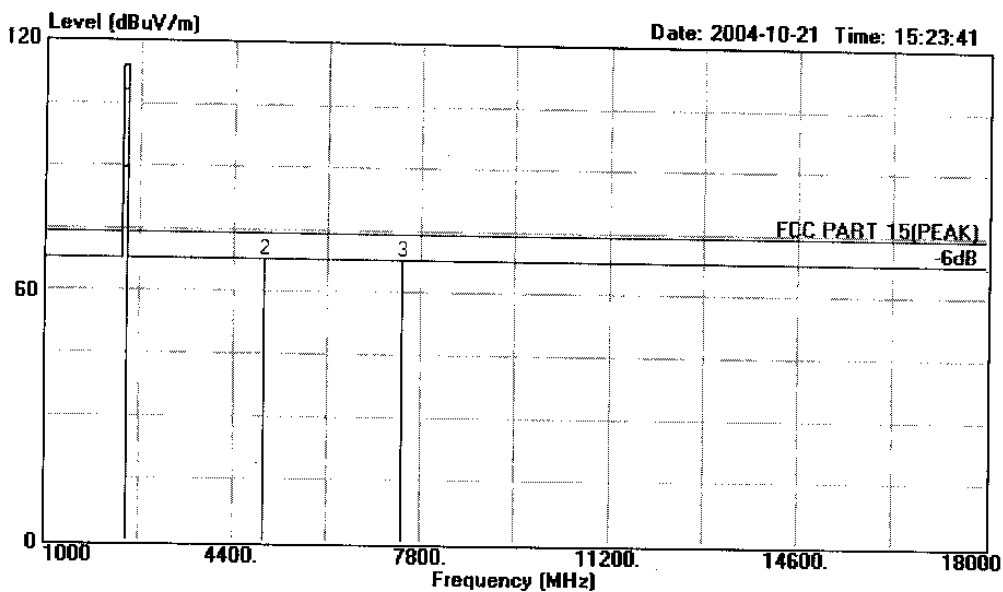


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Data#: 84 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HPS131 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2480.740	85.60	-28.40	114.00	52.50	29.19	3.91	Peak
2	4961.820	68.12	-5.88	74.00	28.90	34.29	4.93	Peak
3	7442.726	67.76	-6.24	74.00	22.80	37.72	7.24	Peak

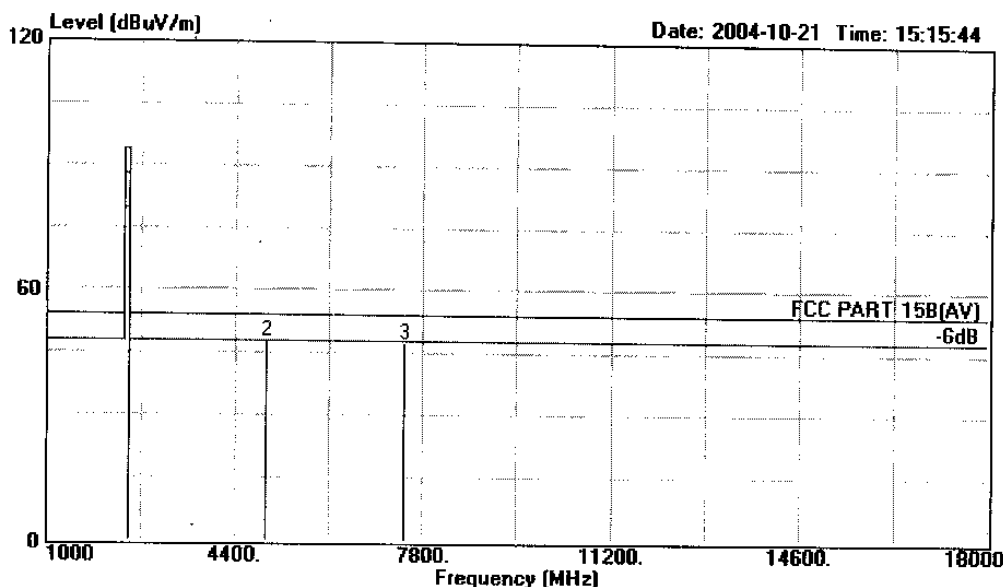


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Data#: 82 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2480.740	75.60	-18.40	94.00	42.50	29.19	3.91	Average
2	4961.820	48.12	-5.88	54.00	8.90	34.29	4.93	Average
3	7442.730	47.76	-6.24	54.00	2.80	37.72	7.24	Average

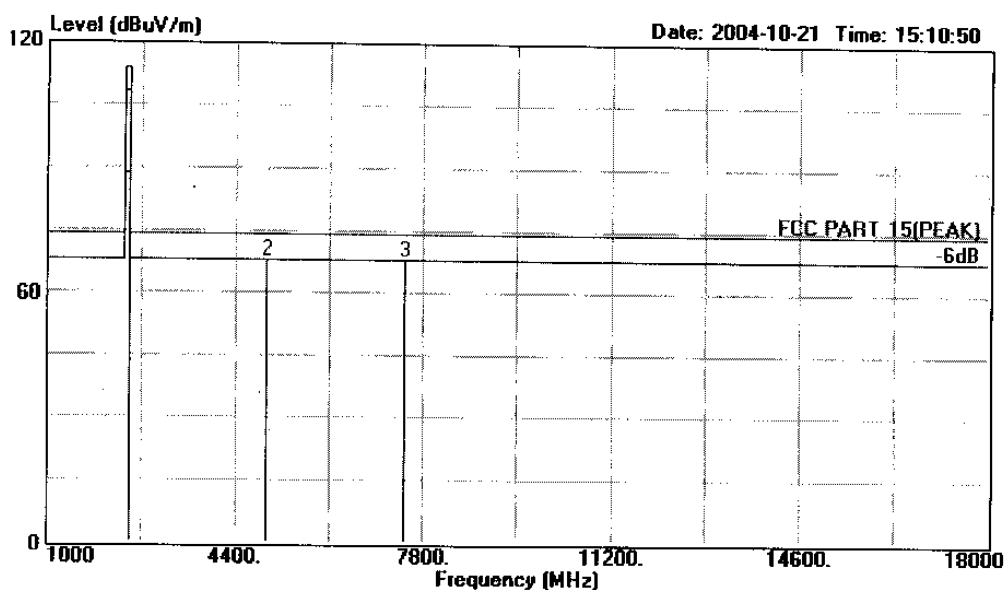


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Data#: 81 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HPB131 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2480.740	84.60	-29.40	114.00	51.50	29.19	3.91	Peak
2	4961.820	68.12	-5.88	74.00	28.90	34.29	4.93	Peak
3	7442.726	67.76	-6.24	74.00	22.80	37.72	7.24	Peak

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	May 24,04	1 Year
2.	Amp	HP	8449B	3008A00863	May 24,04	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jun.15, 04	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 24,04	1 Year

4.2. Block Diagram of Test Setup

EUT

(EUT: xbox 2.4G RF wireless controller (transmit + receiver))

4.3. Operating Condition of EUT

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

4.3.2. Let the EUT work in test mode (Channel 1/Channel 40/Channel 79) 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.



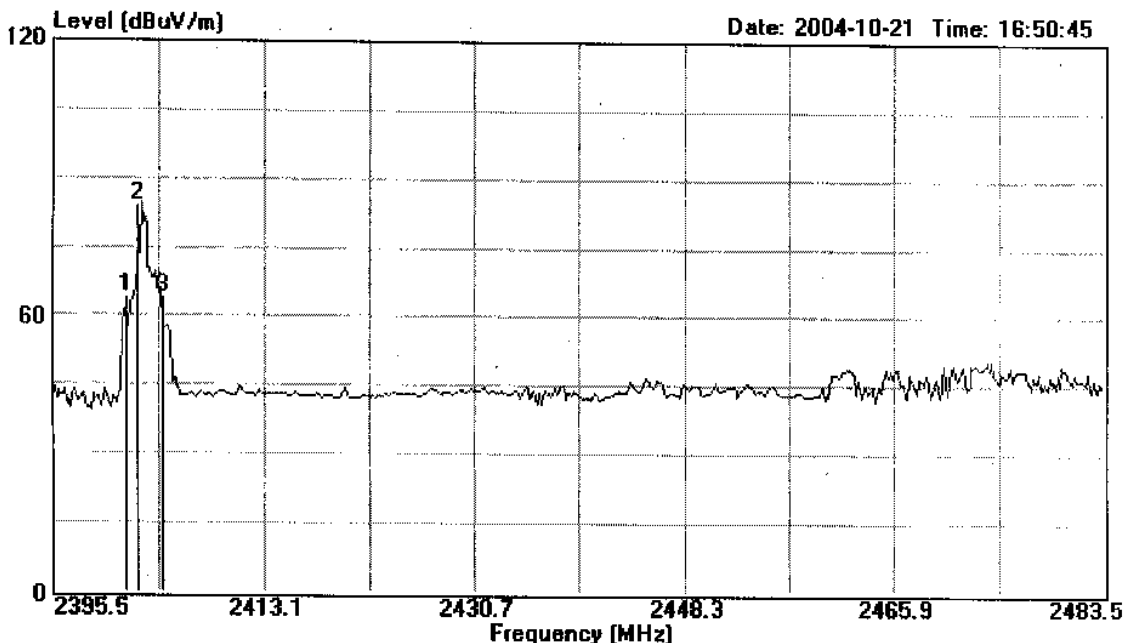
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Data#: 94

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : 20DB Bandwidth: Channel 1
Test Engineer : Seco
Memo : Temp:24°C Humi:61%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2401.600	64.38	-----	-----	31.96	29.01	3.41	Peak
2	2402.590	84.38	-----	-----	51.90	29.03	3.45	Peak
3	2404.600	64.38	-----	-----	31.88	29.03	3.47	Peak



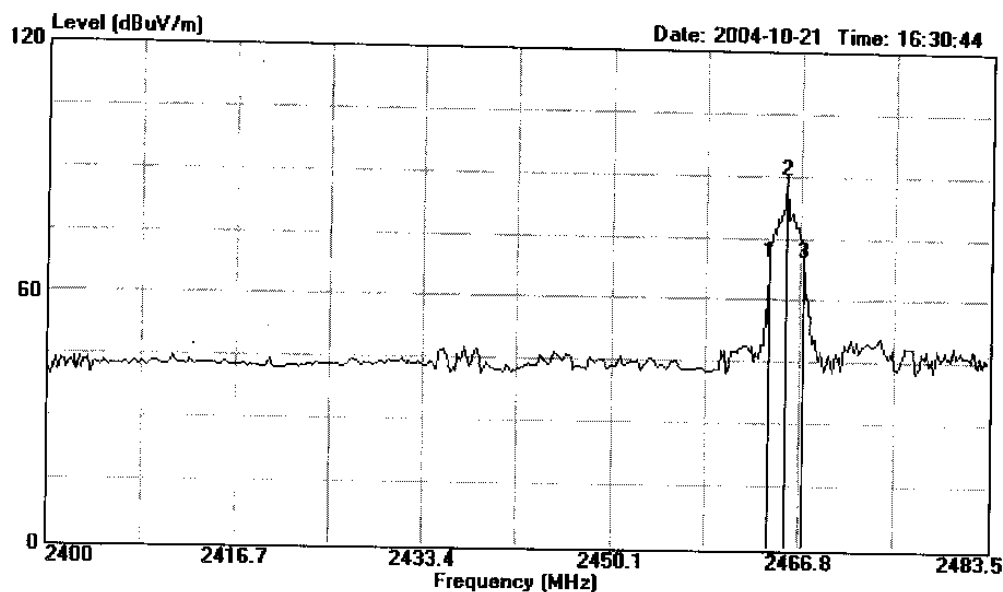
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Data#: 92

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : 20DB Bandwith:Channel 40
Test Engineer : Seco
Memo : Temp:24°C Humi:61%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2464.150	69.38	-----	-----	36.34	29.17	3.87	Peak
2	2465.600	89.38	-----	-----	56.32	29.18	3.88	Peak
3	2467.150	69.38	-----	-----	36.31	29.18	3.89	Peak



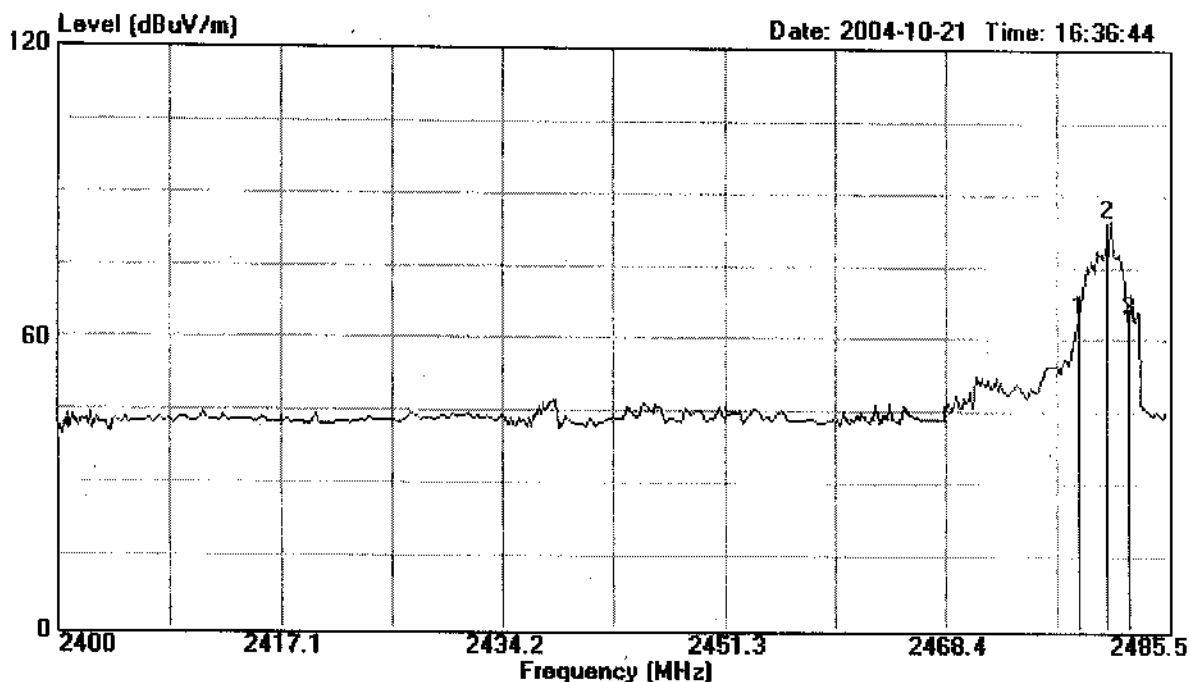
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Data#: 93

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : 20DB Bandwidth: Channel 79
Test Engineer : Seco
Memo : Temp: 24°C Humi: 61%

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2478.700	64.60	-----	-----	31.50	29.19	3.91	Peak
2	2480.910	84.60	-----	-----	51.50	29.19	3.91	Peak
3	2482.600	64.60	-----	-----	31.50	29.19	3.91	Peak

5. BAND EDGES 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	May 24,04	1 Year
2.	Amp	HP	8449B	3008A00863	May 24,04	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jun. 15, 04	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 24,04	1 Year

5.2. Block Diagram of Test Setup



(EUT: xbox 2.4G RF wireless controller (transmit + receiver))

5.3. Specification Limits (§15.247(c))

The highest level should be at least 20 dB below that in the 100kHz bandwidth.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT as shown in Section 5.2..

5.4.2. Let the EUT work in test mode (CH 1/CH 79) and test it.

5.5.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. Horn antenna is used as receiving antenna.

Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from bank edge.

5.6.Test Results

PASSED.

The testing data was attached in the next pages.



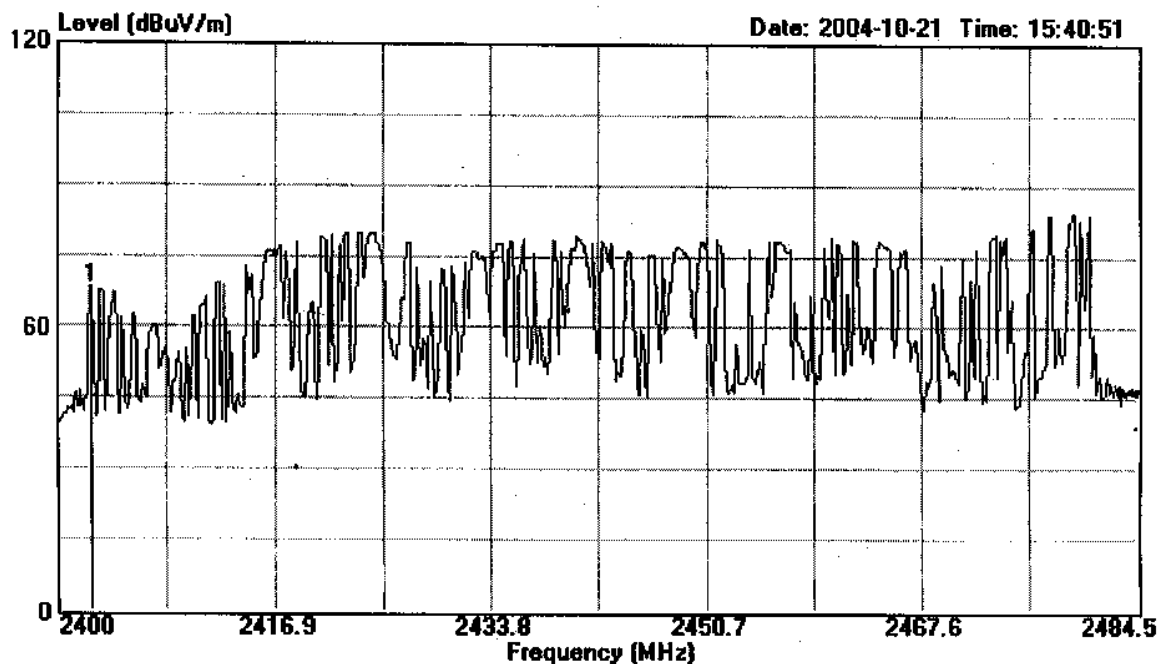
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Data#: 88

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller).
Power : Battery DC6V
Test Mode : Band Edge Plots:Channel 1
Test Engineer : Saco
Memo : Temp:24'C Humi:54%

	Freq MHz	Level dBuV/m	Over	Limit	Read	Probe	Cable	Remark
			Limit	Line	Level	Factor	Loss	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2402.590	68.29	-----	-----	35.81	29.03	3.45	Peak



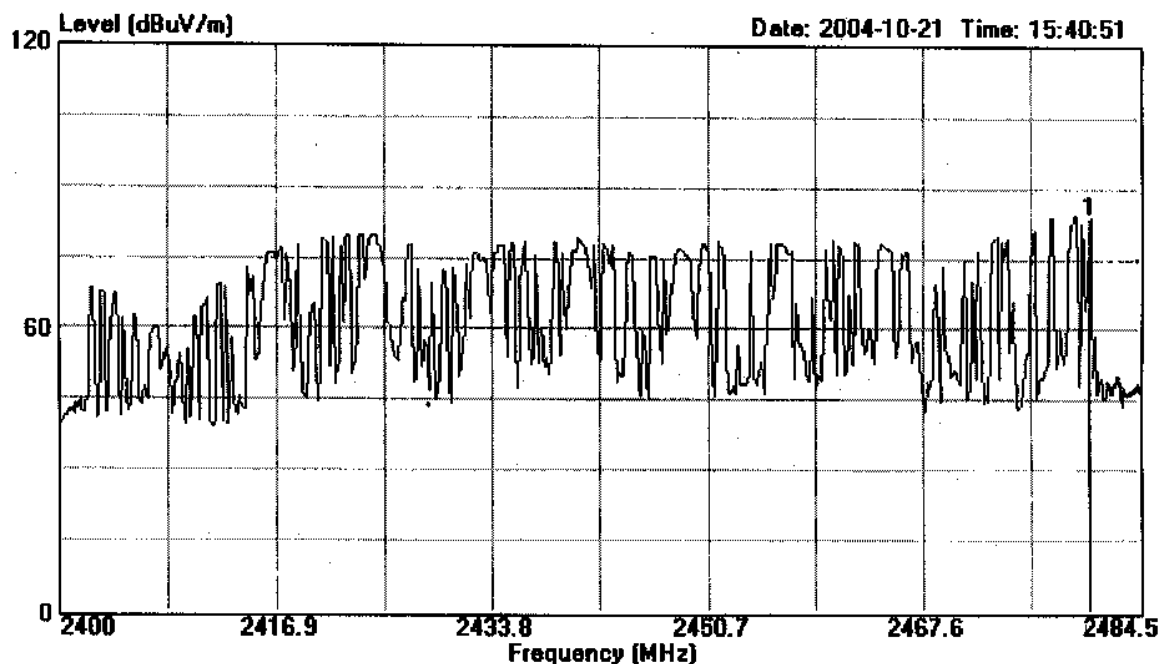
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Data#: 89

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Band Edge Plots:Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

		Over	Limit	Read	Probe	Cable	
Freq	Level	Limit	Line	Level	Factor	Loss	Remark
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1 2480.740	83.88	-----	-----	50.78	29.19	3.91	Peak

6. THE MAXIMUM PEAK OUTPUT POWER 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	May 24,04	1 Year
2.	Amp	HP	8449B	3008A00863	May 24,04	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jun. 15, 04	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 24,04	1 Year
5.	Power meter	HP	436A	2016A07891	NCR	
6.	Power Sensor	Agilent	8482B	My41090514	May 24,04	1Year

6.2. Block Diagram of Test Setup



(EUT: xbox 2.4G RF wireless controller (transmit + receiver))

6.3. Specification Limits (§15.247(b)-(3))

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

6.4. Operating Condition of EUT

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

6.4.2. Let the EUT work in test mode (Channel 40) and test it.

6.5. Test Procedure

Setup the EUT as shown in Section 4.2. 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.

6.6. Test Results

PASSED.

Date of Test :	Oct.21, 2004	Temperature :	23°C
EUT :	xbox 2.4G RF wireless controller (transmit + receiver)	Humidity :	58%
Model No. :	HP8131 (controller)	Test Mode :	Channel 40
Test Engineer:	Seco		

Frequency	Reading dBm	Cable Loss dB	Peak Power dBm	Limit dBm
2465.600MHz	-16.76	0.2	-16.56	30.00

Reviewer:

Chae Wang

7. CHANNEL CARRIER FREQUENCIES SEPARATED 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	May 24,04	1 Year
2.	Amp	HP	8449B	3008A00863	May 24,04	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jun.15, 04	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 24,04	1 Year

7.2.Block Diagram of Test Setup

EUT

(EUT: xbox 2.4G RF wireless controller (transmit + receiver))

7.3.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.

7.4.Operating Condition of EUT

7.4.1.Setup the EUT as shown in Section 5.2..

7.4.2.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 30kHz RBW and 100kHz VBW, set sweep time : 50ms.

7.6. Test Results

PASSED.

The testing data was attached in the next pages.

1. CH30 is 2439.250MHz.
CH29 is 2438.660MHz

Channel Carrier Frequency Separated = 2439.250MHz – 2438.660MHz
= 0.59MHz



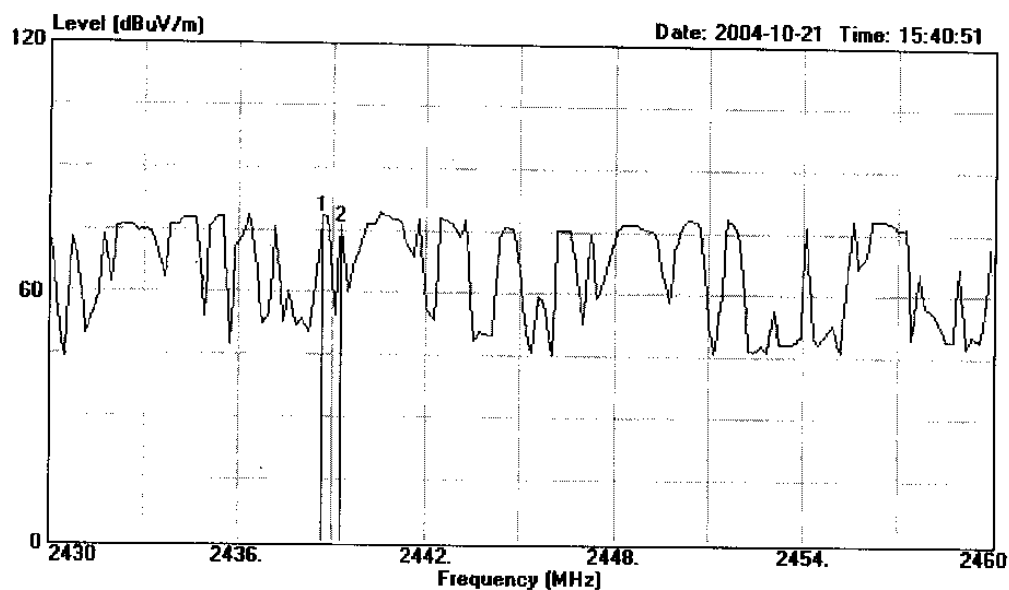
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Data#: 90

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode :
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV/m		dB dBuV/m	dBuV	dB	dB	
1	2438.660	78.50	-----	-----	45.69	29.11	3.70	Peak
2	2439.250	76.08	-----	-----	43.26	29.12	3.70	Peak

8. FREQUENCY HOPPING SYSTEM CHANNEL NUMBER 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	May 24,04	1 Year
2.	Amp	HP	8449B	3008A00863	May 24,04	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jun.15, 04	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 24,04	1 Year

8.2. Block Diagram of Test Setup

EUT

(EUT: xbox 2.4G RF wireless controller (transmit + receiver))

8.3. Specification Limits (§15.247(d))

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

8.4. Operating Condition of EUT

8.4.1. Setup the EUT as shown in Section 6.2..

8.4.2. 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 100kHz RBW and 100kHz VBW, set sweep time : 50ms.

8.6. Test Results

PASSED.

The testing data was attached in the next pages.

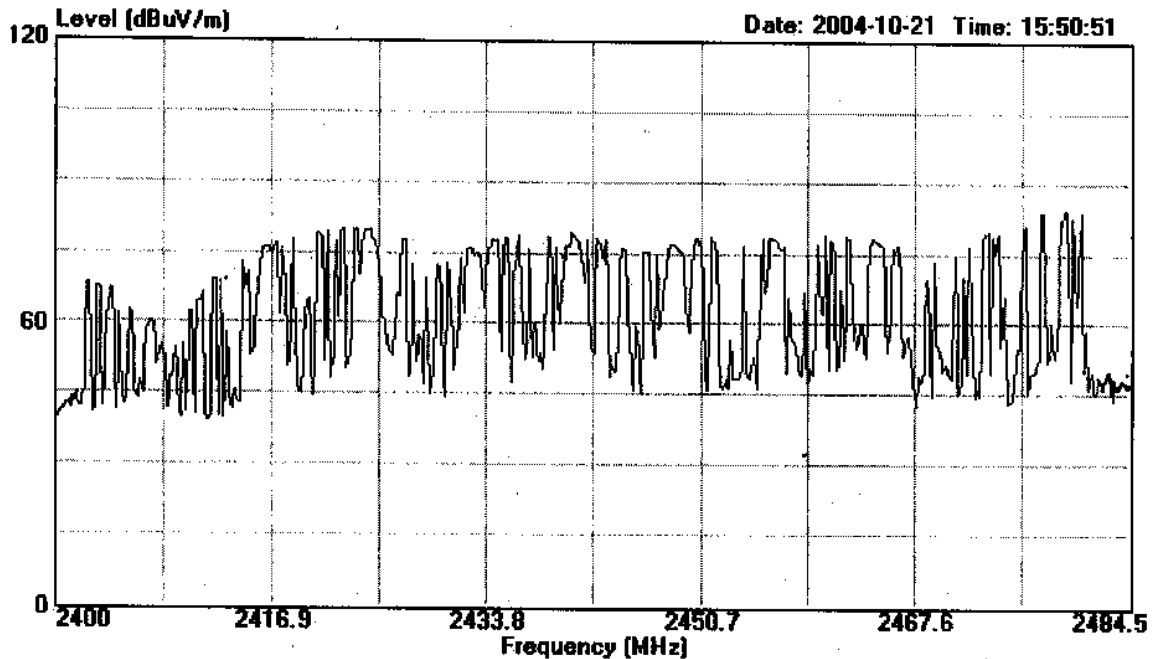


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Data#: 91 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Numbers of Channels:79
Test Engineer : Seco
Memo : Temp:24°C Humi:54%

9. THE AVERAGE TIME OF OCCUPANCY MEASUREMENT

9.1. 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	May 24,04	1 Year
2.	Amp	HP	8449B	3008A00863	May 24,04	1 Year
3.	Antenna	EMCO	3115	9607-4877	Jun.15, 04	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May 24,04	1 Year

9.2. Block Diagram of Test Setup

EUT

(EUT: xbox 2.4G RF wireless controller (transmit + receiver))

9.3. 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 greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.

9.4. Operating Condition of EUT

9.4.1. Setup the EUT as shown in Section 7.2..

9.4.2. Let the EUT work in test mode and test it.

9.5. 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.

9.6. 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 75 channels:
 $83/2=41.5$ times/second
2. Sent times for average every second and every channel.
 $41.5/75=0.55$ times/channel*s
3. Cycle time: $75*0.4=30$ second
4. The average time of occupancy on any channel within a period :
 $0.55*30*0.312=5.148\text{ms} < 400\text{ms}$

10.DEVIATION TO TEST SPECIFICATIONS

(None.)

APPENDIX I



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

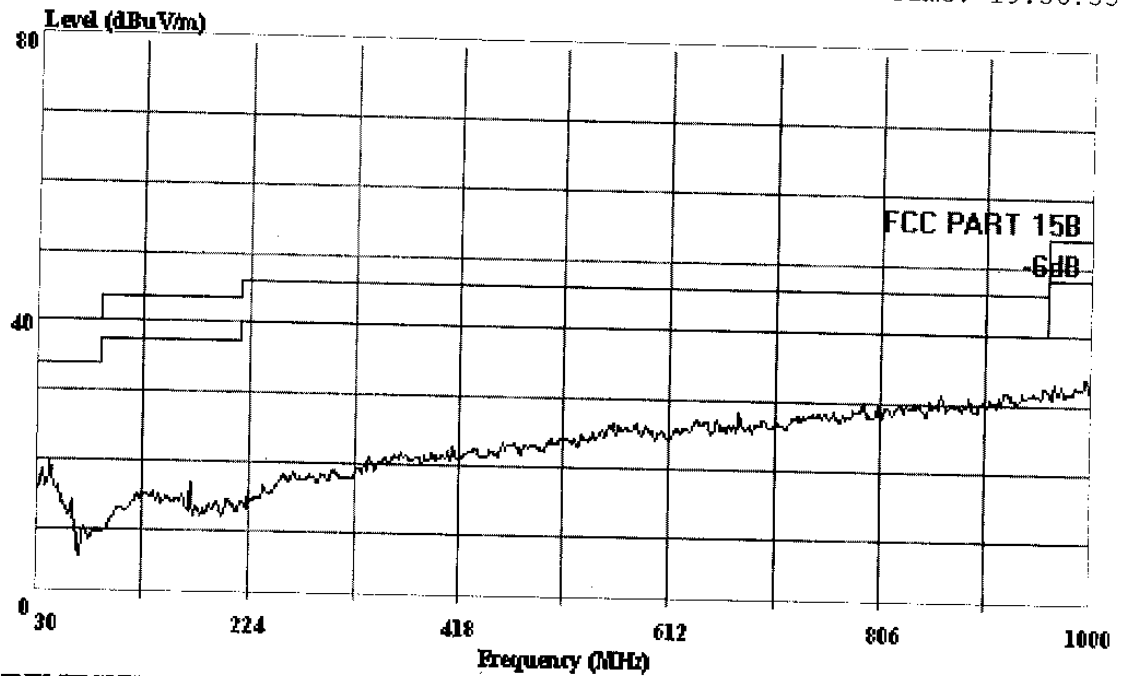
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 27 File#: E-core.emi

Date: 2004-10-21 Time: 19:56:55



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : xbox 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP8131 (controller)

Power : Battery DC6V

Test Mode: Channel 1

Engineer : Seco

Memo : Temp:24'C Humi:54%

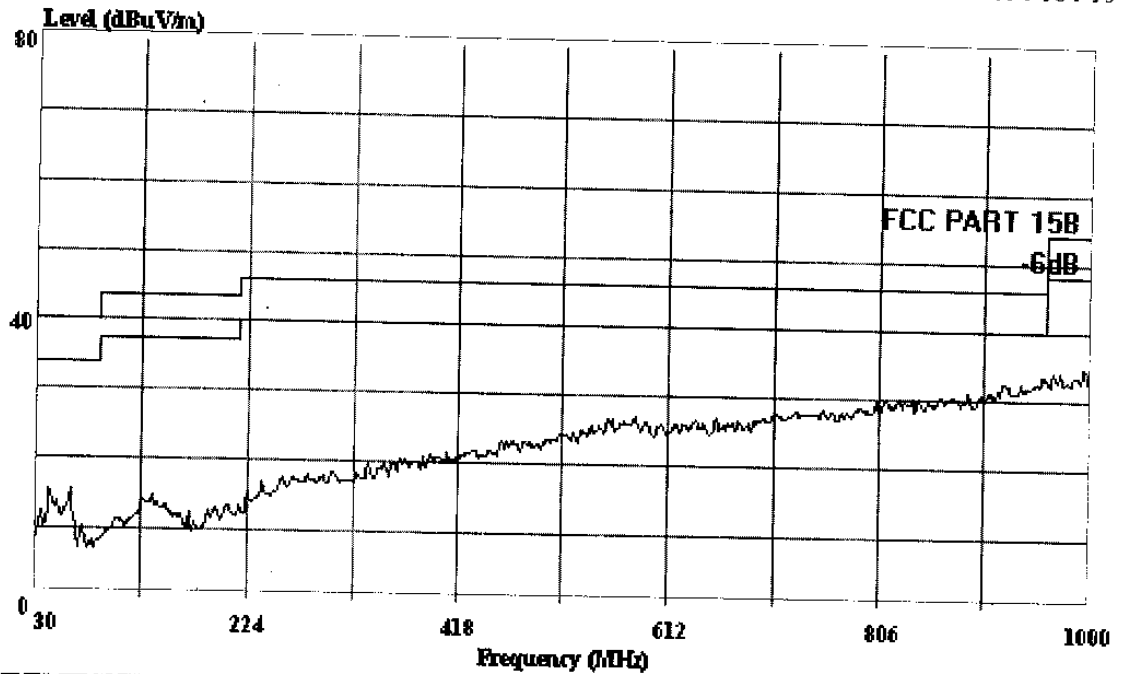


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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

Data#: 25 File#: E-core.emi

Date: 2004-10-21 Time: 19:43:49



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
 M/N : HP8131 (controller)
 Power : Battery DC6V
 Test Mode: Channel 1
 Engineer : Seco
 Memo : Temp:24'C Humi:54%

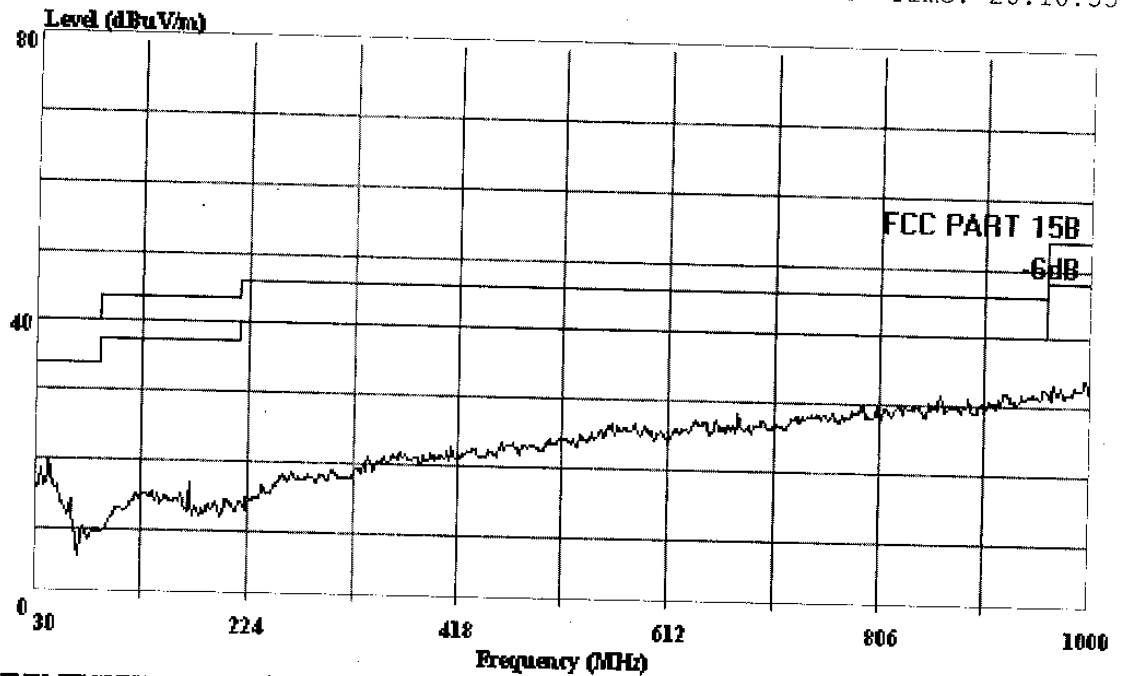


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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

Data#: 31 File#: E-core.emi

Date: 2004-10-21 Time: 20:10:55



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
: (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode: Channel 40
Engineer : Seco
Memo : Temp:24'C Humi:54%



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

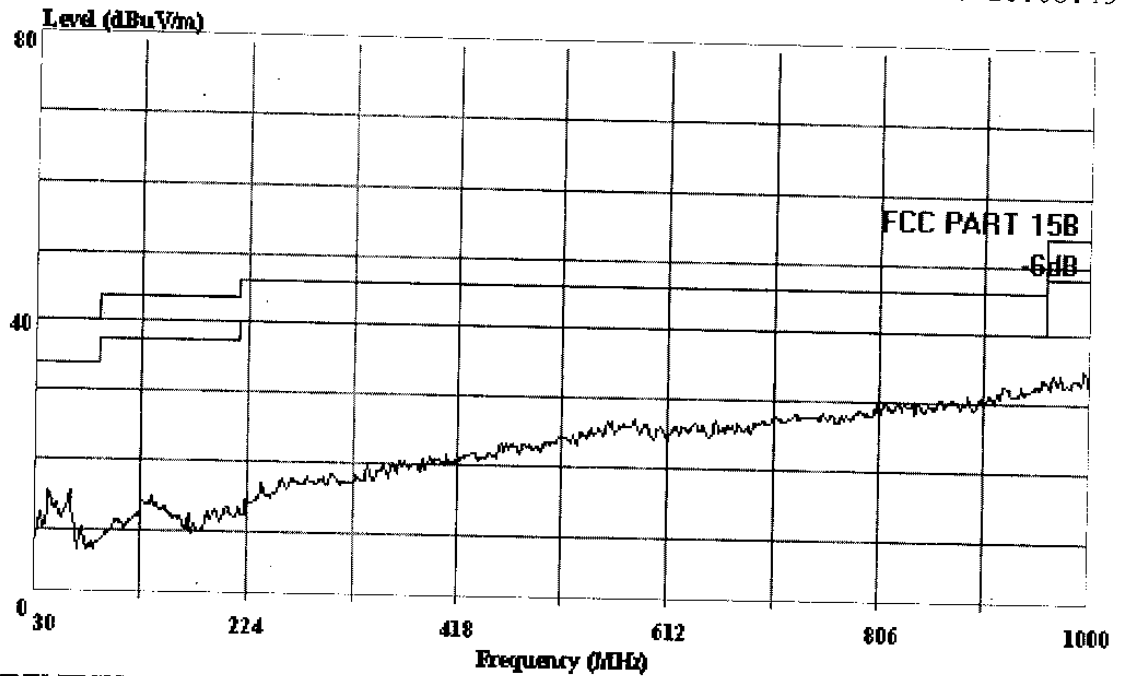
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 29 File#: E-core.emi

Date: 2004-10-21 Time: 20:03:49



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : xbox 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP8131 (controller)

Power : Battery DC6V

Test Mode: Channel 40

Engineer : Seco

Memo : Temp:24'C Humi:54%

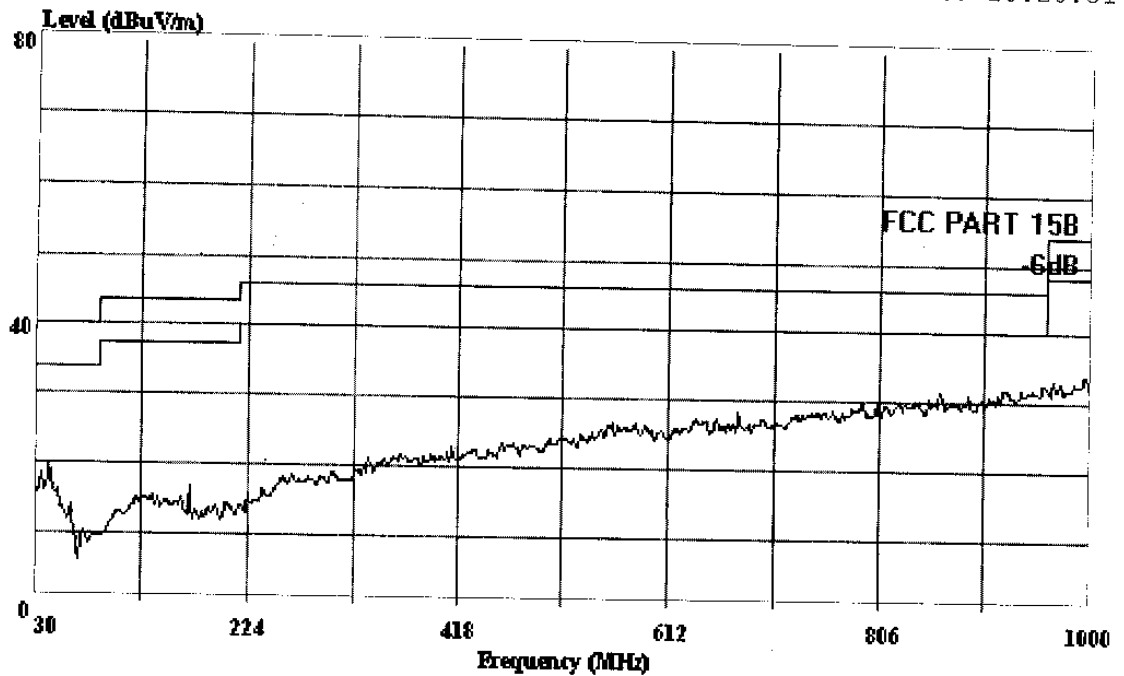


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Shenzhen Science & Ind. Park
 Tel: 0755-26639495~7
 Fax: 0755-26632877

Data#: 33 File#: E-core.emi

Date: 2004-10-21 Time: 20:20:51



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
 EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
 M/N : HP8131 (controller)
 Power : Battery DC6V
 Test Mode: Channel 79
 Engineer : Seco
 Memo : Temp:24'C Humi:54%



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

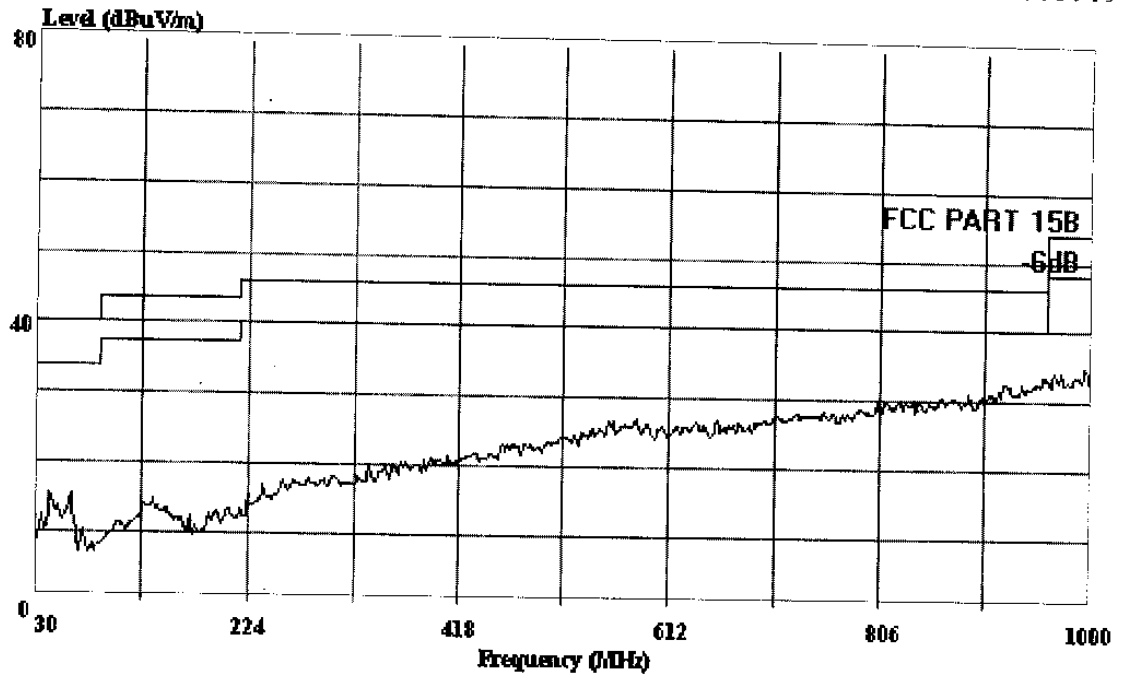
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 35 File#: E-core.emi

Date: 2004-10-21 Time: 20:03:49



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : xbox 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP8131 (controller)

Power : Battery DC6V

Test Mode: Channel 79

Engineer : Seco

Memo : Temp:24'C Humi:54%



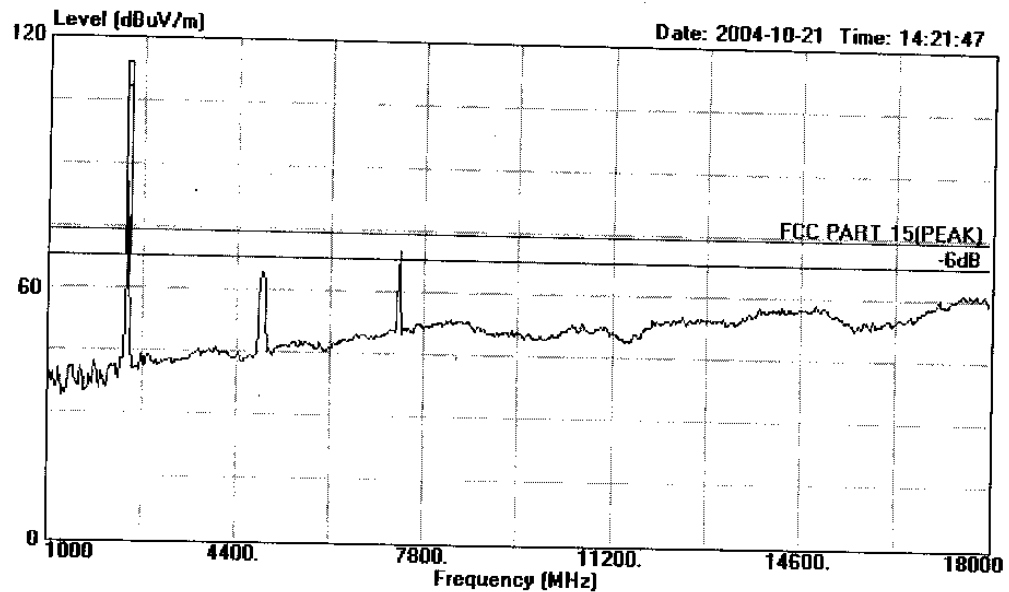
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AUDIX Technology (Shenzhen) Co., Ltd.

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Data#: 64

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24°C Humi:54%

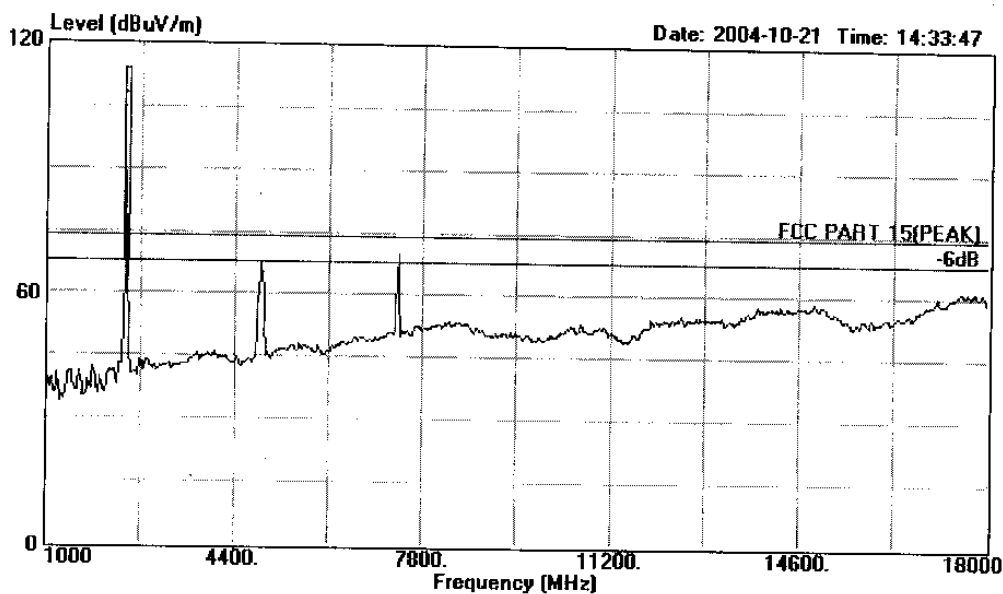


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Tel: +86-755-26639496 Fax: +86-755-26632877

Data#: 67 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%



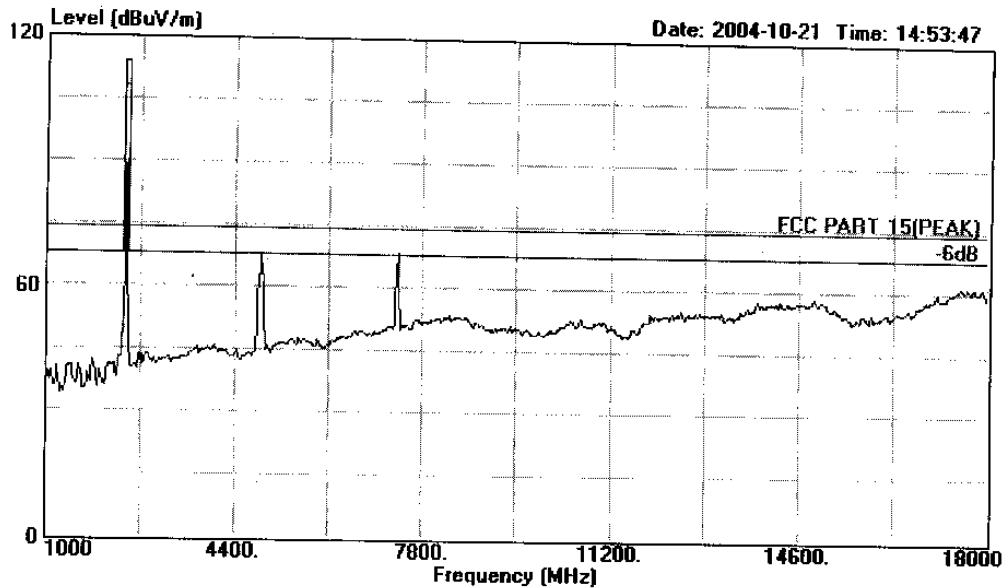
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No. 6, Ke Feng Road, Block 52,
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Nantou, Shenzhen, Guangdong, China
Tel: +86-755-26639496 Fax: +86-755-26632877

Data#: 75

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
- : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%



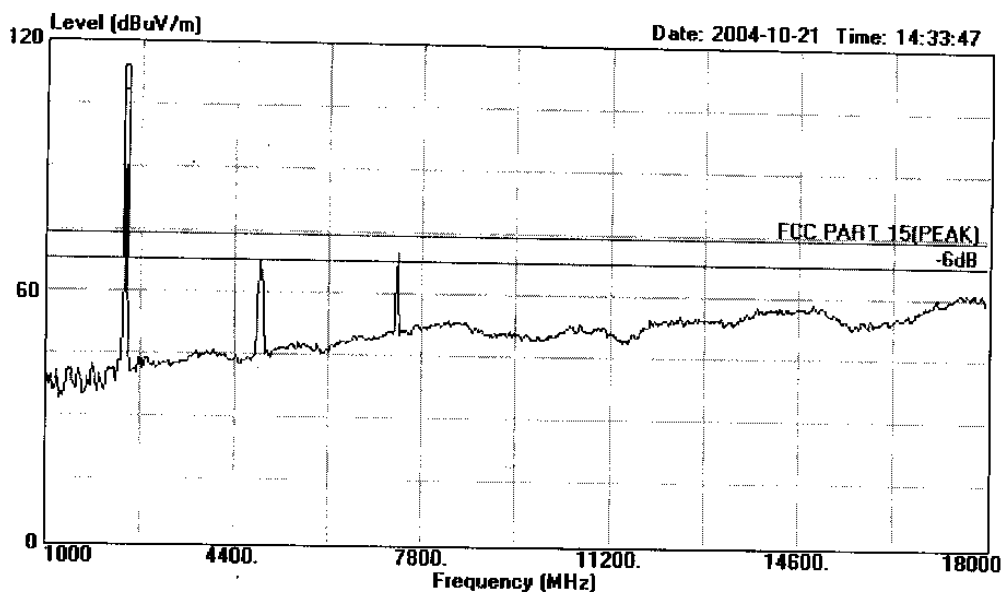
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Data#: 72

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%



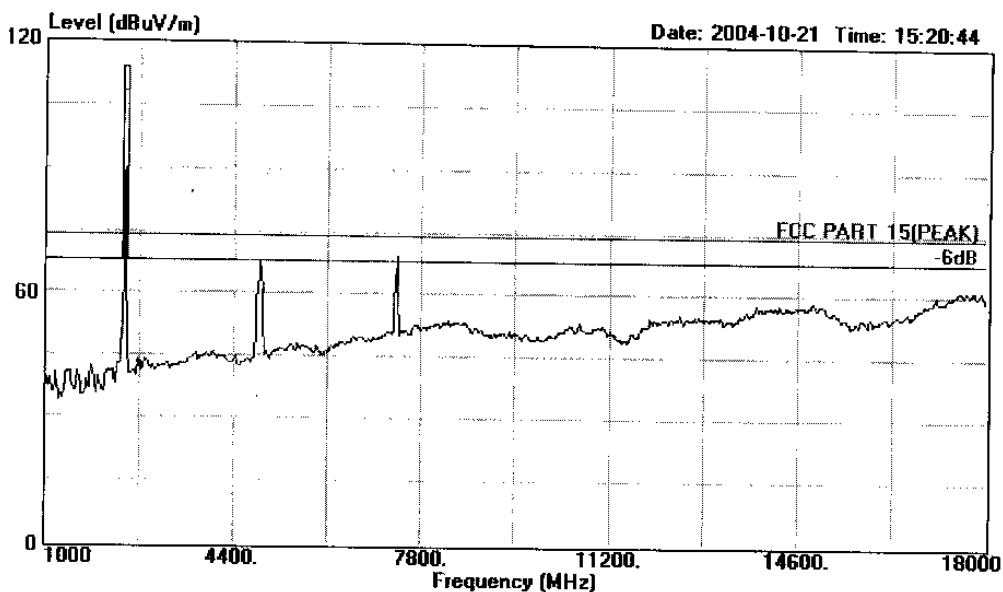
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Data#: 83

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

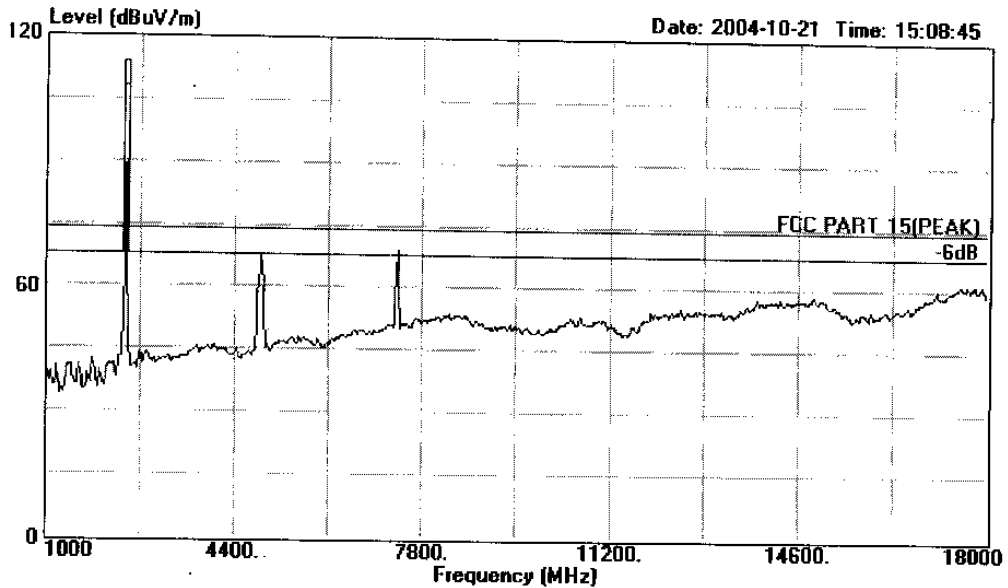


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Data#: 80 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : {transmit+receiver}
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

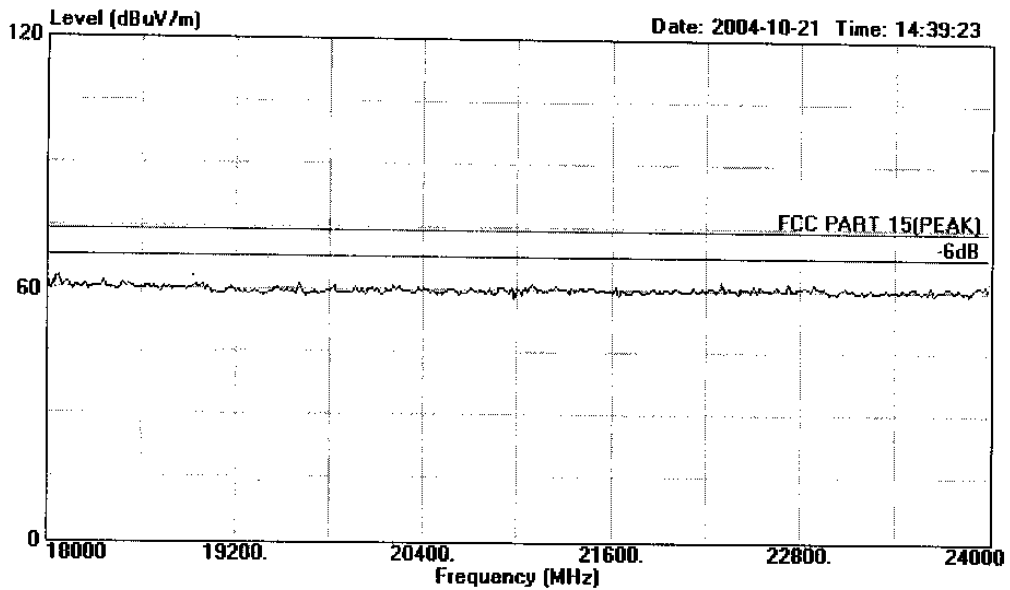


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Data#: 71 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

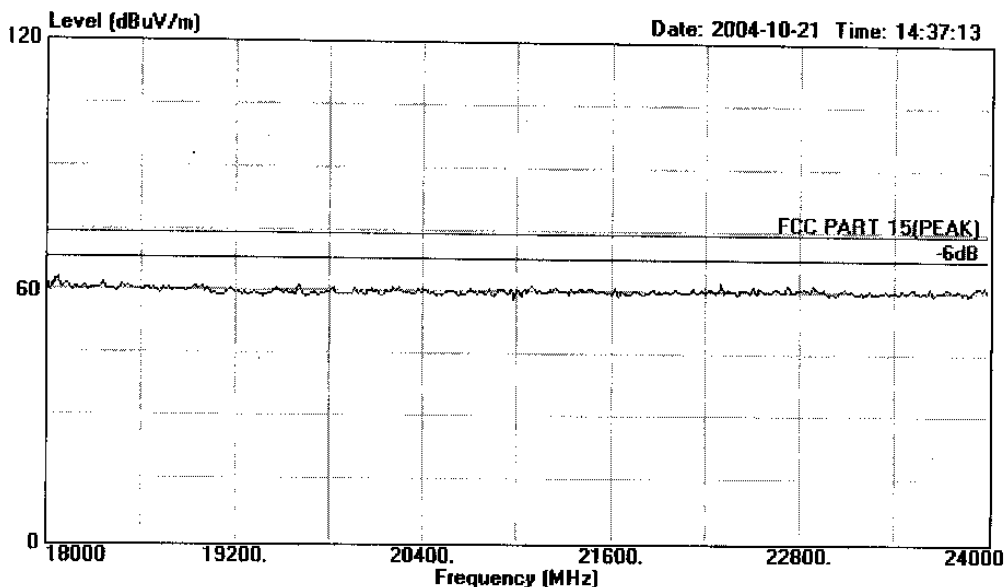


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Data#: 70 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

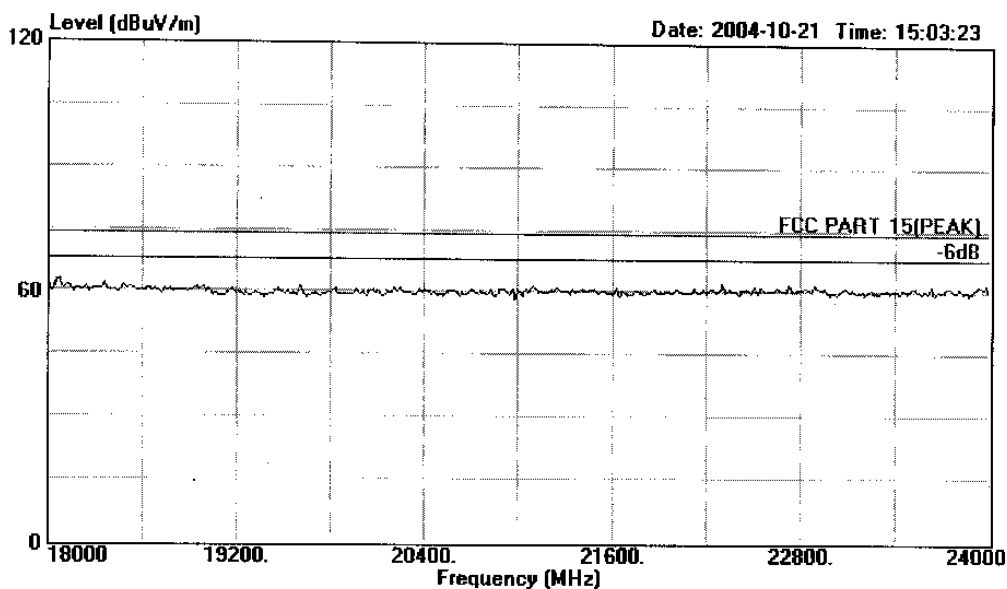


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Data#: 78 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
 : {transmit+receiver}
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

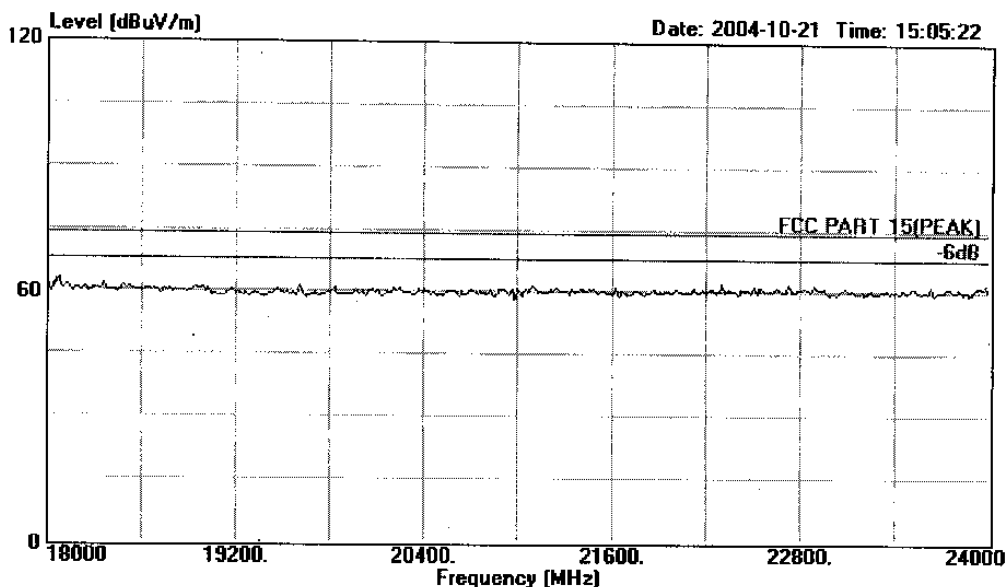


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Data#: 79 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

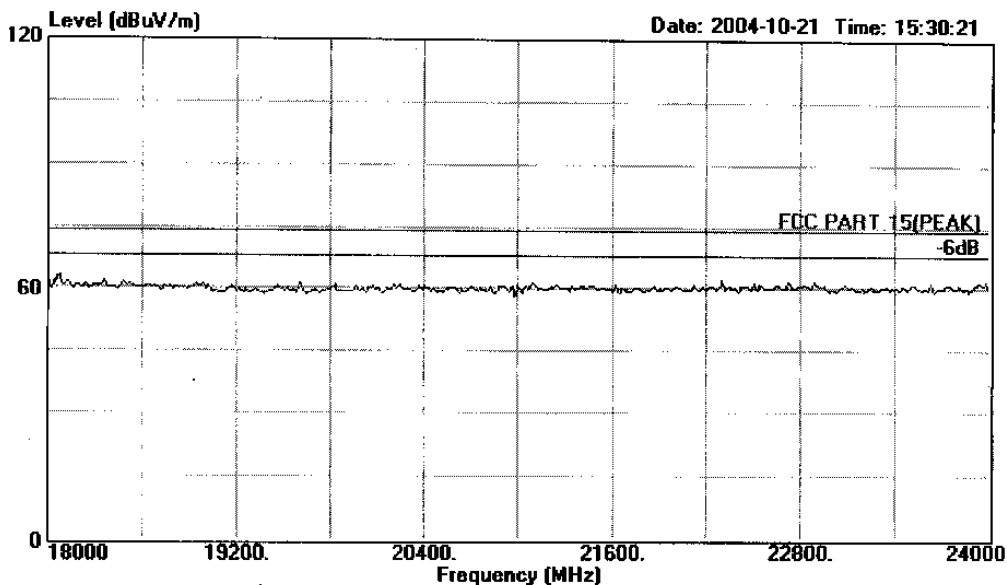


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Data#: 87 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%



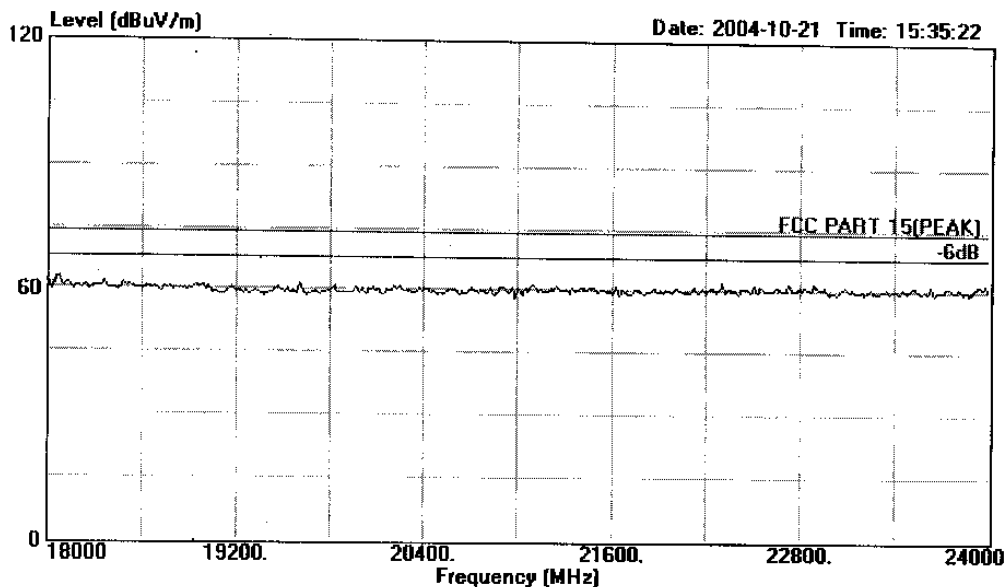
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Data#: 86

File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : xbox 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP8131 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%