

APPLICATION FOR CERTIFICATION
On Behalf of

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

PS2 2.4G RF Wireless Controller (Transmit + Receiver)

Model Number: HP5139A (Receiver)

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

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
Shenzhen Science & Industrial Park,
Nantou, Shenzhen, Guangdong, China

Tel: (0755) 26639496

Report Number : ACS-F04309
Date of Test : Sep.23~Oct.19, 2004
Date of Report : Oct.19, 2004

TABLE OF CONTENTS

Description	Page
FCC Test Report for Declaration of Conformity	
1. GENERAL INFORMATION.....	1-1
1.1. Description of Device (EUT).....	1-1
1.2. Tested Supporting System Details	1-1
1.3. Test Facility.....	1-2
1.4. Measurement Uncertainty	1-2
2. POWER LINE CONDUCTED EMISSION TEST.....	2-1
3. RADIATED EMISSION TEST.....	3-1
3.1. Test Equipment.....	3-1
3.2. Block Diagram of Test Setup.....	3-1
3.3. Radiated Emission Limit	3-2
3.4. EUT Configuration on Test.....	3-3
3.5. Operating Condition of EUT	3-3
3.6. Test Procedure	3-3
3.7. Radiated Emission Test Result	3-4
4. FREQUENCY HOPPING SYSTEM CHANNEL NUMBER MEASUREMENT	4-1
4.1. Test Equipment.....	4-1
4.2. Block Diagram of Test Setup.....	4-1
4.3. Specification Limits (§15.249).....	4-1
4.4. Operating Condition of EUT	4-1
4.5. Test Procedure	4-2
4.6. Test Results	4-2
5. DEVIATION TO TEST SPECIFICATIONS	5-1
6. PHOTOGRAPH.....	6-1
6.1. Photos of Radiated Emission Test	6-1

APPENDIX I (19 pages)

TEST REPORT DECLARATION

Applicant : E-Core Technology (China) Co., Ltd.
 Manufacturer : E-Core Technology (China) Co., Ltd.
 EUT Description : PS2 2.4G RF Wireless Controller (Transmit + Receiver)
 (A) MODEL NO. : HP5139A (Receiver)
 (B) SERIAL NO. : F2004101901
 (C) POWER SUPPLY : DC 6V With PS2 AC Input 120V/60Hz

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.

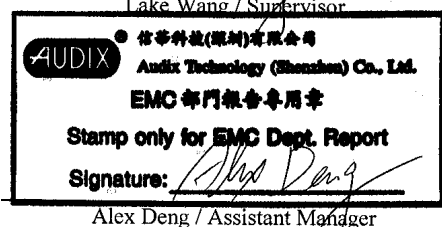
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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 : Sep.23~Oct.19, 2004

Prepared by : Jane Dai / Assistant

Reviewer : Lake Wang / Supervisor



Approved & Authorized Signer :

Name of the Representative of the Responsible Party :

Signature :

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description	:	PS2 2.4G RF Wireless Controller (Transmit + Receiver)
Model Number	:	HP5139A (Receiver)
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	:	Sep.23~Oct.19, 2004

1.2. Tested Supporting System Details

1.2.1. PS2

Manufacturer	:	SONY
Model Number	:	SCPH-39001
S/N	:	FU2120061

1.3. 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

1.4. Measurement 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 15.249, 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

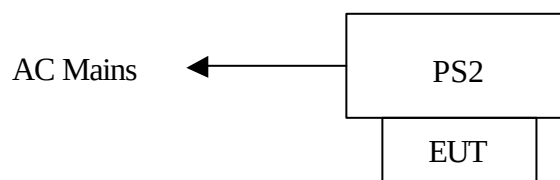
The following test equipments are used during the radiated emission test:

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

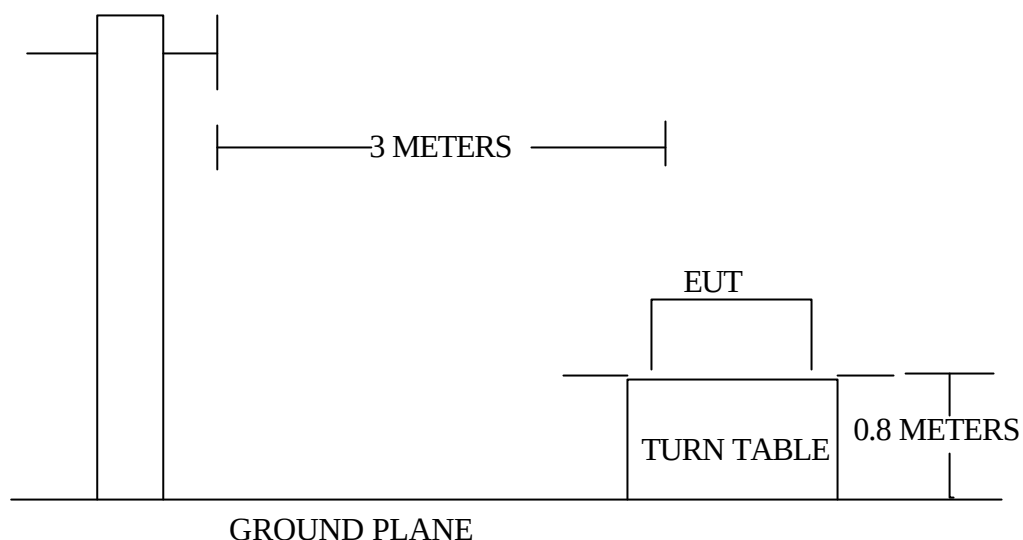


(EUT: PS2 2.4G RF Wireless Controller (Transmit + Receiver))

3.2.2. In Anechoic Chamber

ANTENNA TOWER

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



3.3. Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$
 - (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.PS2 2.4G RF Wireless Controller (Transmit + Receiver) (EUT)

Model Number : HP5139A (Receiver)
Serial Number : F2004101901
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.19, 2004	Temperature :	24°C
EUT :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	54%
Model No. :	HP5139A (Receiver)	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
108.570	11.26	2.09	19.27	32.62	-10.88	43.50
186.170	9.23	2.85	14.46	26.54	-16.96	43.50
217.210	9.91	3.12	16.03	29.06	-16.94	46.00
590.660	18.72	6.21	9.32	34.25	-11.75	46.00
786.600	21.47	7.05	6.17	34.69	-11.31	46.00
883.600	22.05	7.39	6.10	35.55	-10.45	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 883.600MHz with corrected signal level of 35.55dBμV/m (Limit is 46.00dBμV/m) when the antenna was at horizontal polarization and at 2.0m 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 :

Lake Wang

Date of Test :	<u>Oct.19, 2004</u>	Temperature :	<u>24°C</u>
EUT :	<u>PS2 2.4G RF Wireless Controller</u>	Humidity :	<u>54%</u>
	<u>(Transmit + Receiver)</u>		
Model No. :	<u>HP5139A (Receiver)</u>	Test Mode :	<u>Channel 1</u>
Test Engineer:	<u>Seco</u>		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Vertical	Vertical	Limits	
	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
109.540	9.56	2.09	18.82	30.47	-13.03	43.50
217.210	9.26	3.12	15.86	28.24	-17.76	46.00
332.640	13.37	4.04	8.33	25.74	-20.26	46.00
589.690	18.93	6.14	10.44	35.51	-10.49	46.00
785.630	21.21	7.02	8.95	37.18	-8.82	46.00
884.570	22.25	7.42	4.99	34.66	-11.34	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 785.630MHz with corrected signal level of 37.18dBμV/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 :

Lake Wang

Date of Test :	<u>Oct.19, 2004</u>	Temperature :	<u>24°C</u>
EUT :	<u>PS2 2.4G RF Wireless Controller</u>	Humidity :	<u>54%</u>
	<u>(Transmit + Receiver)</u>		
Model No. :	<u>HP5139A (Receiver)</u>	Test Mode :	<u>Channel 40</u>
Test Engineer:	<u>Seco</u>		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Horizontal	Horizontal	Limits	
	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
108.570	11.26	2.09	18.02	31.37	-12.13	43.50
183.260	9.37	2.82	14.95	27.13	-16.37	43.50
218.180	9.80	3.12	15.65	28.57	-17.43	46.00
441.280	16.76	4.86	6.63	28.25	-17.75	46.00
591.630	18.72	6.27	10.35	35.34	-10.66	46.00
785.630	21.49	7.02	9.20	37.71	-8.29	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 785.630MHz with corrected signal level of 37.71dBμV/m (Limit is 46.00dBμV/m) when the antenna was at horizontal polarization and at 1.8m 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 :	<u>Oct.19, 2004</u>	Temperature :	<u>24°C</u>
EUT :	<u>PS2 2.4G RF Wireless Controller</u>	Humidity :	<u>54%</u>
	<u>(Transmit + Receiver)</u>		
Model No. :	<u>HP5139A (Receiver)</u>	Test Mode :	<u>Channel 40</u>
Test Engineer:	<u>Seco</u>		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Vertical	Vertical	Limits	
	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
108.570	9.49	2.09	18.66	30.23	-13.27	43.50
218.180	9.21	3.12	16.72	29.05	-16.95	46.00
324.880	13.13	4.04	6.89	24.06	-21.94	46.00
590.660	18.96	6.21	9.37	34.54	-11.46	46.00
785.630	21.21	7.02	8.51	36.74	-9.26	46.00
885.540	22.25	7.44	6.12	35.81	-10.19	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 785.630MHz with corrected signal level of 36.74dBμV/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 :

Lake Wang

Date of Test :	Oct.11, 2004	Temperature :	24°C
EUT :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	54%
Model No. :	HP5139A (Receiver)	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
108.570	11.26	2.09	17.85	31.20	-12.30	43.50
218.180	9.80	3.12	16.51	29.43	-16.57	46.00
441.280	16.76	4.86	7.22	28.84	-17.16	46.00
589.690	18.72	6.14	12.19	37.05	-8.95	46.00
785.630	21.49	7.02	9.40	37.91	-8.09	46.00
885.540	22.05	7.44	7.48	36.97	-9.03	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 785.630MHz with corrected signal level of 37.91dBμV/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 :

Lake Wang

Date of Test : Oct.11, 2004 Temperature : 24°C
 EUT : PS2 2.4G RF Wireless Controller Humidity : 54%
 (Transmit + Receiver)
 Model No. : HP5139A (Receiver) Test Mode : Channel 79
 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
109.540	9.56	2.09	19.83	31.48	-12.02	43.50
218.180	9.21	3.12	15.96	28.29	-17.71	46.00
332.640	13.37	4.04	8.66	26.07	-19.93	46.00
590.660	18.96	6.21	12.20	37.37	-8.63	46.00
785.630	21.21	7.02	8.63	36.86	-9.14	46.00
882.630	22.26	7.37	4.14	33.77	-12.23	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 590.660MHz with corrected signal level of 37.37dBμV/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 :

Lake Wang

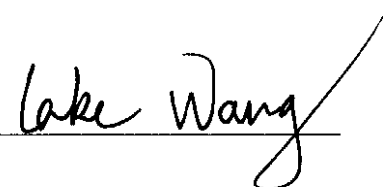
Date of Test :	<u>Oct.18, 2004</u>	Temperature :	<u>24°C</u>
EUT :	<u>PS2 2.4G RF Wireless Controller</u>	Humidity :	<u>54%</u>
	<u>(Transmit + Receiver)</u>		
Model No. :	<u>HP5139A (Receiver)</u>	Test Mode :	<u>Channel 1</u>
Test Engineer:	<u>Seco</u>		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits	Remark
MHz	Factor	Loss	Horizontal	Horizontal	Limits		
	dB	dB	dBμV	dBμV/m	dB	dBμV/m	
2402.840	29.03	3.45	44.97	77.45	-16.55	94.00	Average
4805.680	33.91	4.77	10.13	48.81	-5.19	54.00	Average
7208.520	37.33	7.12	4.42	48.87	-5.13	54.00	Average

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits	Remark
MHz	Factor	Loss	Horizontal	Horizontal	Limits		
	dB	dB	dBμV	dBμV/m	dB	dBμV/m	
2402.840	29.03	3.45	51.51	83.99	-10.01	94.00	Peak
4805.680	33.91	4.77	27.13	65.81	-8.19	74.00	Peak
7208.520	37.33	7.12	23.42	67.87	-6.13	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 :



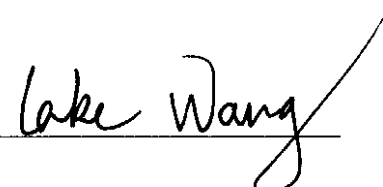
Date of Test :	Oct.18, 2004	Temperature :	24°C
EUT :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	54%
Model No. :	HP5139A (Receiver)	Test Mode :	Channel 1
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2402.840	29.03	3.45	45.77	78.25	-15.75	94.00	Average
4805.680	33.91	4.77	9.22	47.90	-6.10	54.00	Average
7208.520	37.33	7.12	3.54	47.99	-6.01	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
2402.840	29.03	3.45	51.75	84.23	-9.77	94.00	Peak
4805.680	33.91	4.77	27.30	65.98	-8.02	74.00	Peak
7208.520	37.33	7.12	22.79	67.24	-6.76	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 :



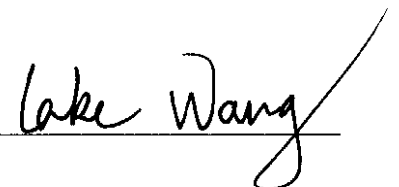
Date of Test :	Sep.23, 2004	Temperature :	24°C
EUT :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	54%
Model No. :	HP5139A (Receiver)	Test Mode :	Channel 40
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2465.650	29.15	3.80	44.50	77.45	-16.55	94.00	Average
4931.300	34.20	4.90	9.71	48.81	-5.19	54.00	Average
7396.950	37.63	7.22	4.02	48.87	-5.13	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
2465.650	29.15	3.80	51.50	84.45	-9.55	94.00	Peak
4931.300	34.20	4.90	26.71	65.81	-8.19	74.00	Peak
7396.950	37.63	7.22	24.02	68.87	-5.13	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 :



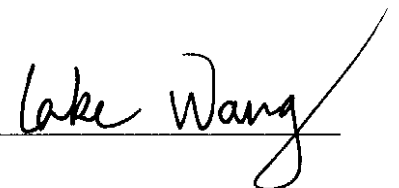
Date of Test :	Sep.23, 2004	Temperature :	24°C
EUT :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	54%
Model No. :	HP5139A (Receiver)	Test Mode :	Channel 40
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2465.650	29.15	3.80	46.97	79.92	-14.08	94.00	Average
4931.300	34.20	4.90	10.14	49.24	-4.76	54.00	Average
7396.950	37.63	7.22	4.26	49.11	-4.89	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
2465.650	29.15	3.80	52.97	85.92	-8.08	94.00	Peak
4931.300	34.20	4.90	28.14	67.24	-6.76	74.00	Peak
7396.950	37.63	7.22	24.26	69.11	-4.89	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 :



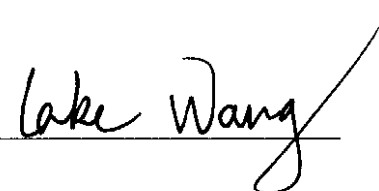
Date of Test :	<u>Oct.18, 2004</u>	Temperature :	<u>24°C</u>
EUT :	<u>PS2 2.4G RF Wireless Controller</u> <u>(Transmit + Receiver)</u>	Humidity :	<u>54%</u>
Model No. :	<u>HP5139A (Receiver)</u>	Test Mode :	<u>Channel 79</u>
Test Engineer:	<u>Seco</u>		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2480.910	29.19	3.91	35.53	68.63	-25.37	94.00	Average
4961.820	34.29	4.93	9.88	49.10	-4.90	54.00	Average
7442.730	37.72	7.24	2.63	47.59	-6.41	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
2480.910	29.19	3.91	51.09	84.19	-9.81	94.00	Peak
4961.820	34.29	4.93	30.88	70.10	-3.90	74.00	Peak
7442.730	37.72	7.24	24.64	69.60	-4.40	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 :



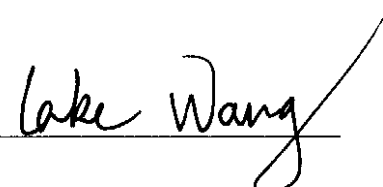
Date of Test :	Oct.18, 2004	Temperature :	24°C
EUT :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	54%
Model No. :	HP5139A (Receiver)	Test Mode :	Channel 79
Test Engineer:	Seco		

Frequency MHz	Antenna Factor dB	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m	Remark
2480.910	29.19	3.91	44.15	77.25	-16.75	94.00	Average
4961.820	34.29	4.93	8.73	47.95	-6.05	54.00	Average
7442.730	37.72	7.24	3.03	47.99	-6.01	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
2480.910	29.19	3.91	51.13	84.23	-9.77	94.00	Peak
4961.820	34.29	4.93	27.00	66.22	-7.78	74.00	Peak
7442.730	37.72	7.24	21.94	66.90	-7.10	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 :





AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

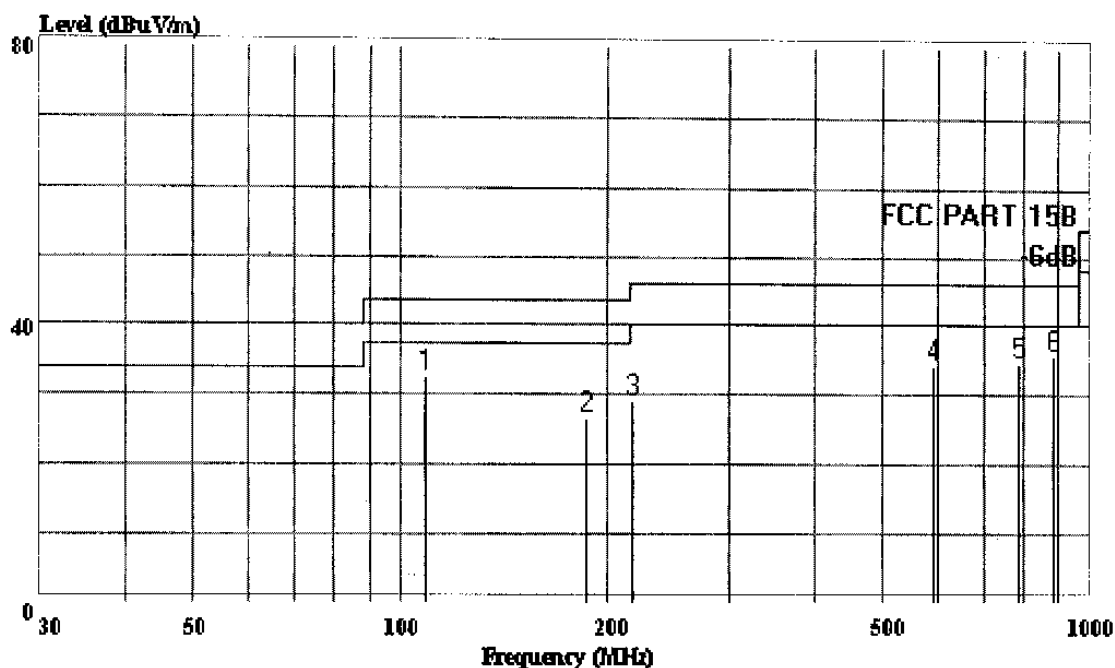
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 19 File#: E-core.emi

Date: 2004-10-19 Time: 09:13:03



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

Test Mode: Channel 1

Engineer : Seco

Memo : Temp:24'C Humi:54%

: Antpos:2.0m Tablepos:0'

Page: 1

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	108.570	32.62	-10.88	43.50	19.27	11.26	2.09	13.35
2	186.170	26.54	-16.96	43.50	14.46	9.23	2.85	12.08
3	217.210	29.06	-16.94	46.00	16.03	9.91	3.12	13.03
4	590.660	34.25	-11.75	46.00	9.32	18.72	6.21	24.93
5	786.600	34.69	-11.31	46.00	6.17	21.47	7.05	28.52
6	883.600	35.55	-10.45	46.00	6.10	22.05	7.39	29.45



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

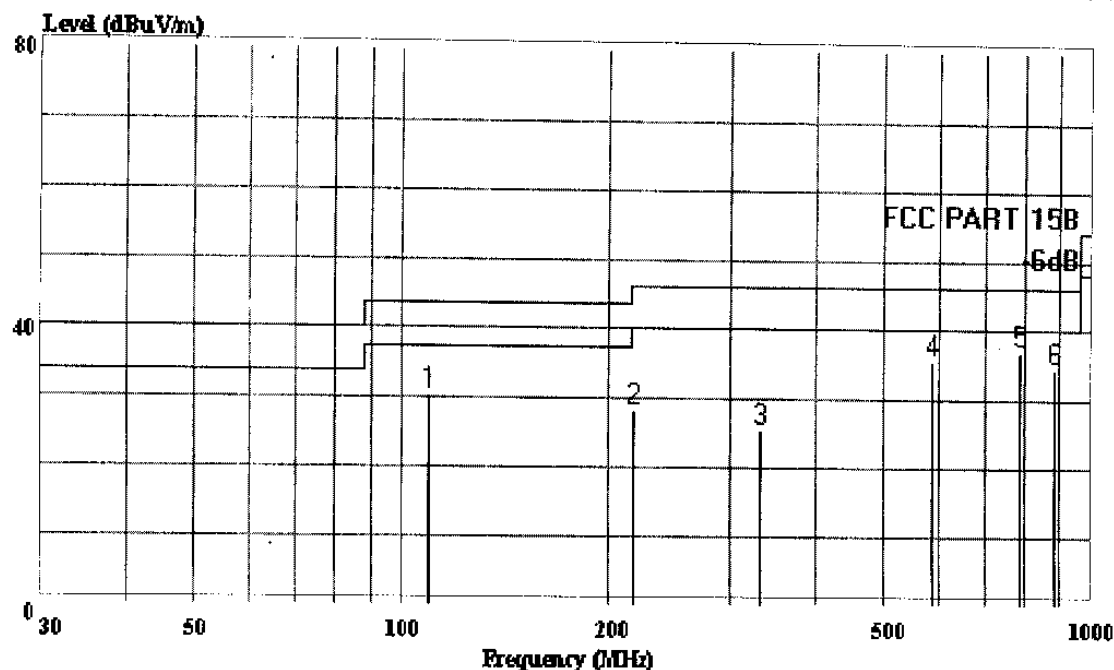
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 20 File#: E-core.emi

Date: 2004-10-19 Time: 09:13:51



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

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	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	109.540	30.47	-13.03	43.50	18.82	9.56	2.09	11.65
2	217.210	28.24	-17.76	46.00	15.86	9.26	3.12	12.38
3	332.640	25.74	-20.26	46.00	8.33	13.37	4.04	17.41
4	589.690	35.51	-10.49	46.00	10.44	18.93	6.14	25.07
5	785.630	37.18	-8.82	46.00	8.95	21.21	7.02	28.23
6	884.570	34.66	-11.34	46.00	4.99	22.25	7.42	29.67



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

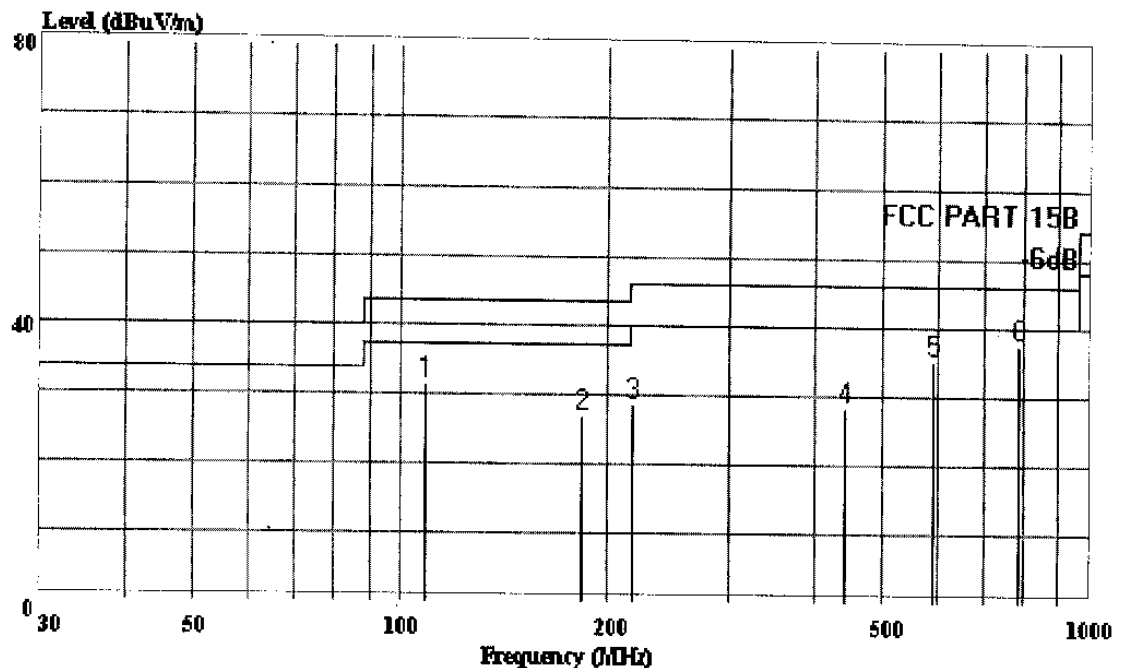
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 18 File#: E-core.emi

Date: 2004-10-19 Time: 09:12:21



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

Test Mode: Channel 40

Engineer : Seco

Memo : Temp:24'C Humi:54%

: Antpos:1.8m Tablepos:0'

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	108.570	31.37	-12.13	43.50	18.02	11.26	2.09	13.35
2	183.260	27.13	-16.37	43.50	14.95	9.37	2.82	12.19
3	218.180	28.57	-17.43	46.00	15.65	9.80	3.12	12.92
4	441.280	28.25	-17.75	46.00	6.63	16.76	4.86	21.62
5	591.630	35.34	-10.66	46.00	10.35	18.72	6.27	24.99
6	785.630	37.71	-8.29	46.00	9.20	21.49	7.02	28.51



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

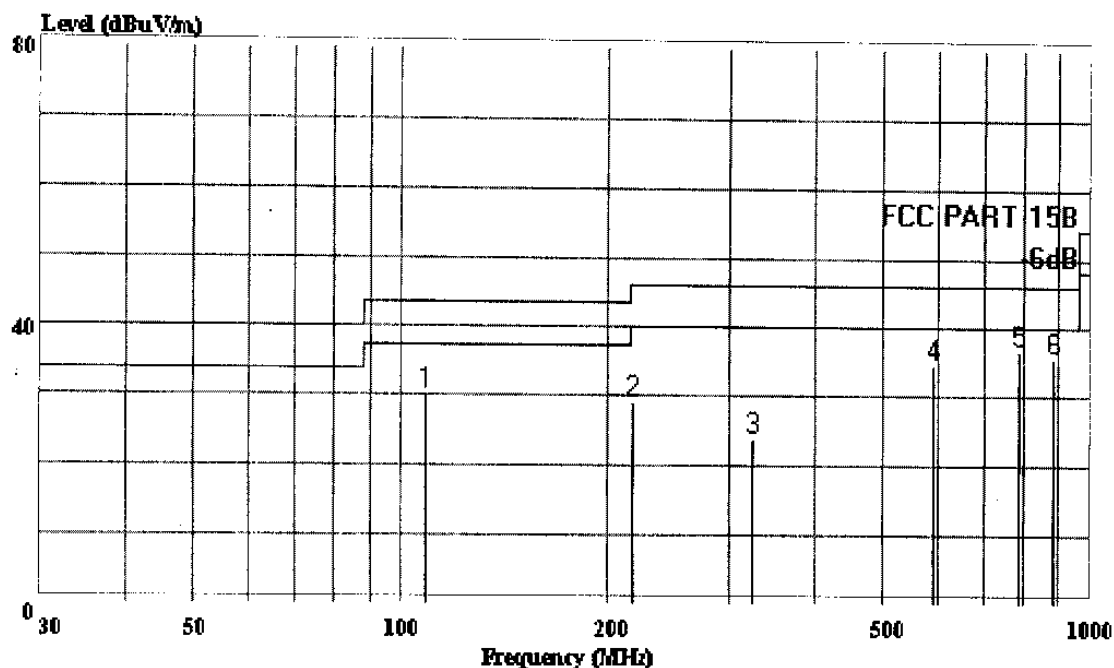
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 17 File#: E-core.emi

Date: 2004-10-19 Time: 09:11:35



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

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	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB
1	108.570	30.23	-13.27	43.50	18.66	9.49	2.09	11.57
2	218.180	29.05	-16.95	46.00	16.72	9.21	3.12	12.33
3	324.880	24.06	-21.94	46.00	6.89	13.13	4.04	17.17
4	590.660	34.54	-11.46	46.00	9.37	18.96	6.21	25.17
5	785.630	36.74	-9.26	46.00	8.51	21.21	7.02	28.23
6	885.540	35.81	-10.19	46.00	6.12	22.25	7.44	29.69



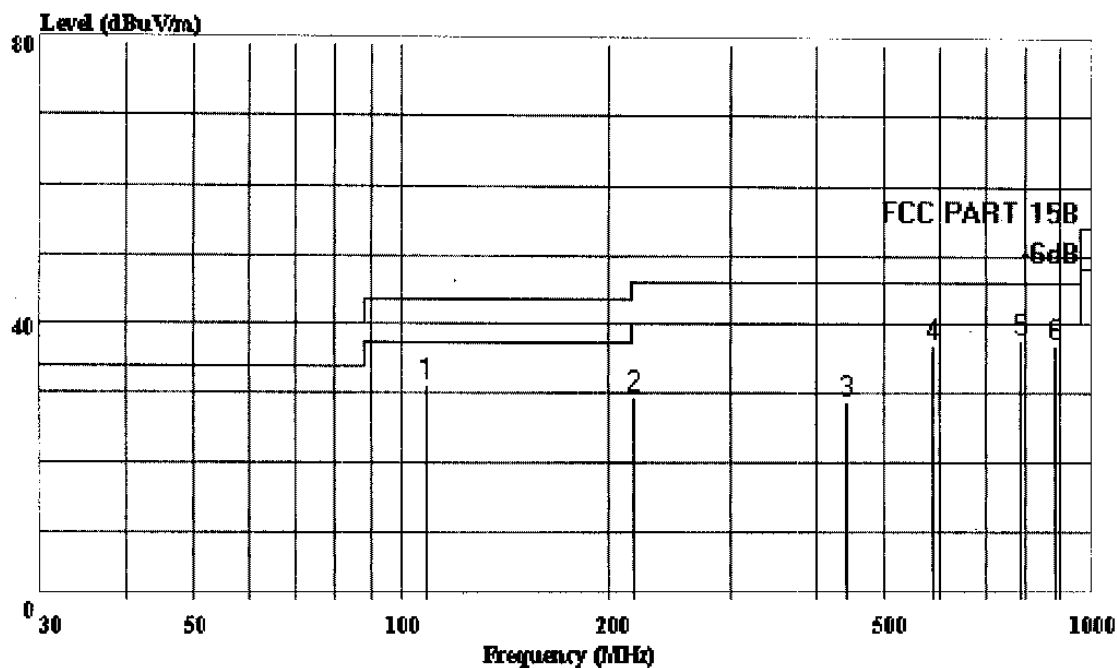
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 10 File#: E-core.emi Date: 2004-10-11 Time: 09:28:15



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

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	108.570	31.20	-12.30	43.50	17.85	11.26	2.09
2	218.180	29.43	-16.57	46.00	16.51	9.80	3.12
3	441.280	28.84	-17.16	46.00	7.22	16.76	4.86
4	589.690	37.05	-8.95	46.00	12.19	18.72	6.14
5	785.630	37.91	-8.09	46.00	9.40	21.49	7.02
6	885.540	36.97	-9.03	46.00	7.48	22.05	7.44



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

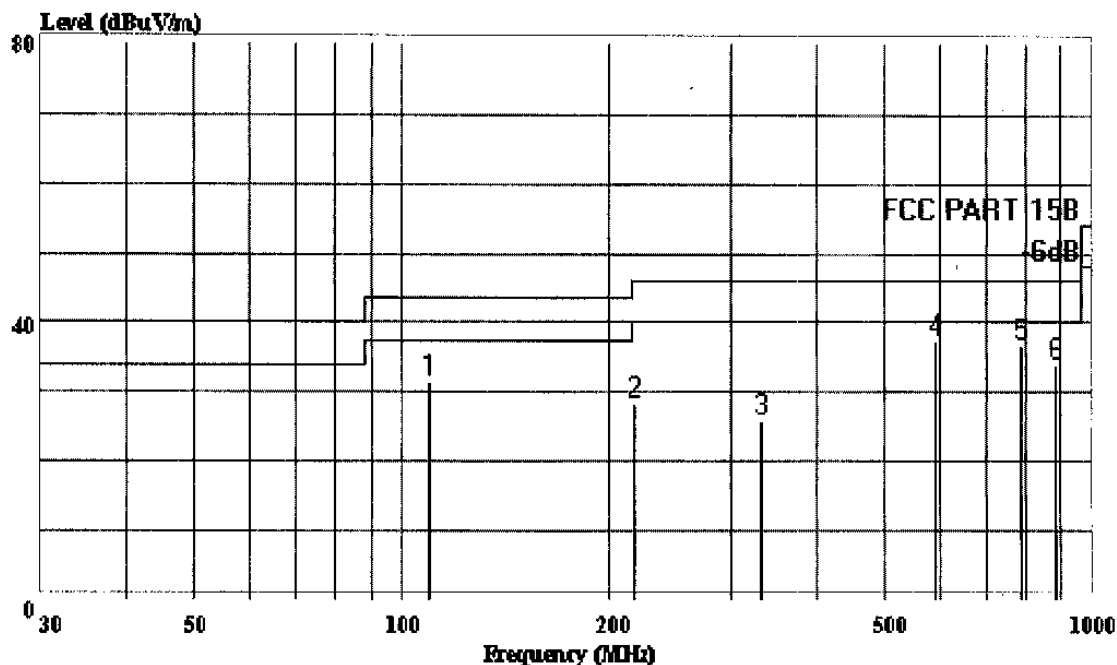
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 12 File#: E-core.emi

Date: 2004-10-11 Time: 09:30:06



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

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	109.540	31.48	-12.02	43.50	19.83	9.56	2.09
2	218.180	28.29	-17.71	46.00	15.96	9.21	3.12
3	332.640	26.07	-19.93	46.00	8.66	13.37	4.04
4	590.660	37.37	-8.63	46.00	12.20	18.96	6.21
5	785.630	36.86	-9.14	46.00	8.63	21.21	7.02
6	882.630	33.77	-12.23	46.00	4.14	22.26	7.37

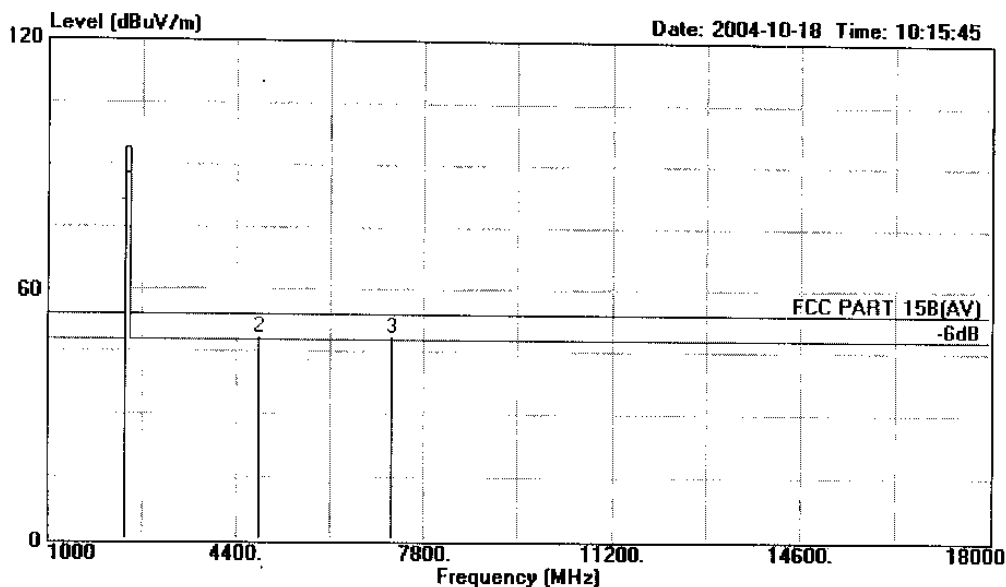


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 44 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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	2402.840	77.45	-16.55	94.00	44.97	29.03	3.45	Average
2	4805.680	48.81	-5.19	54.00	10.13	33.91	4.77	Average
3	7208.520	48.87	-5.13	54.00	4.42	37.33	7.12	Average

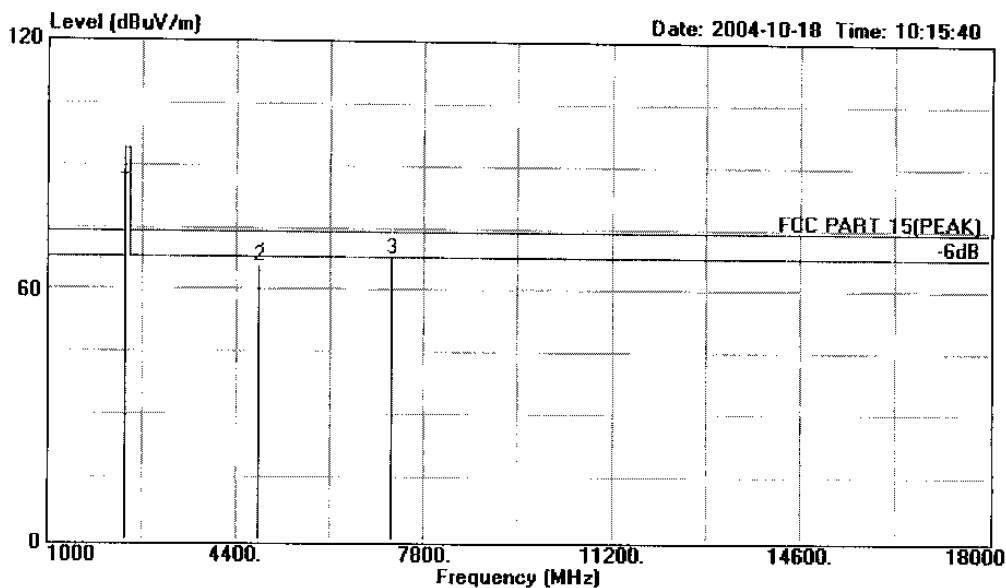


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 43 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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	2402.840	83.99	-10.01	94.00	51.51	29.03	3.45	Peak
2	4805.680	65.81	-8.19	74.00	27.13	33.91	4.77	Peak
3	7208.520	67.87	-6.13	74.00	23.42	37.33	7.12	Peak

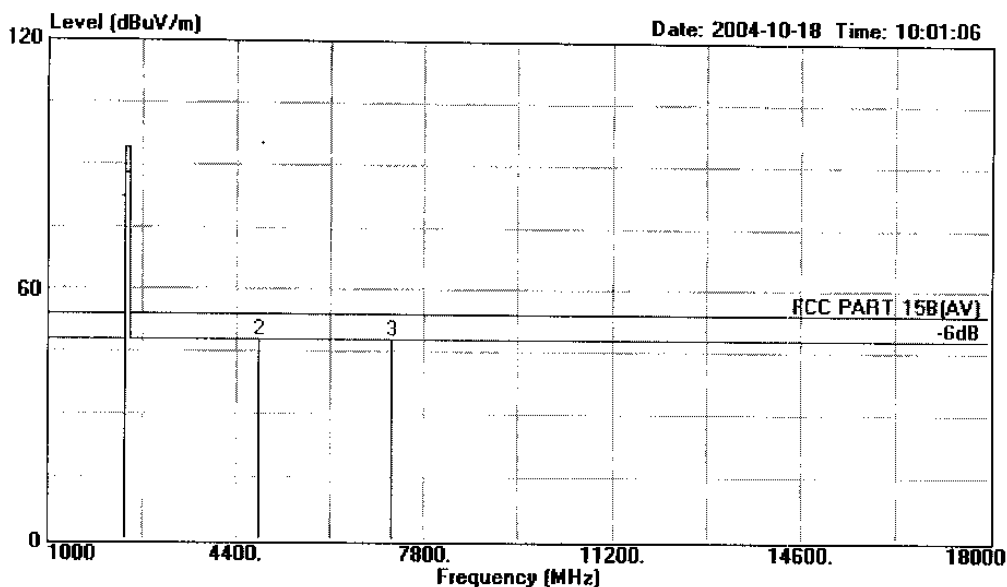


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 42 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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	2402.840	78.25	-15.75	94.00	45.77	29.03	3.45	Average
2	4805.680	47.90	-6.10	54.00	9.22	33.91	4.77	Average
3	7208.520	47.99	-6.01	54.00	3.54	37.33	7.12	Average

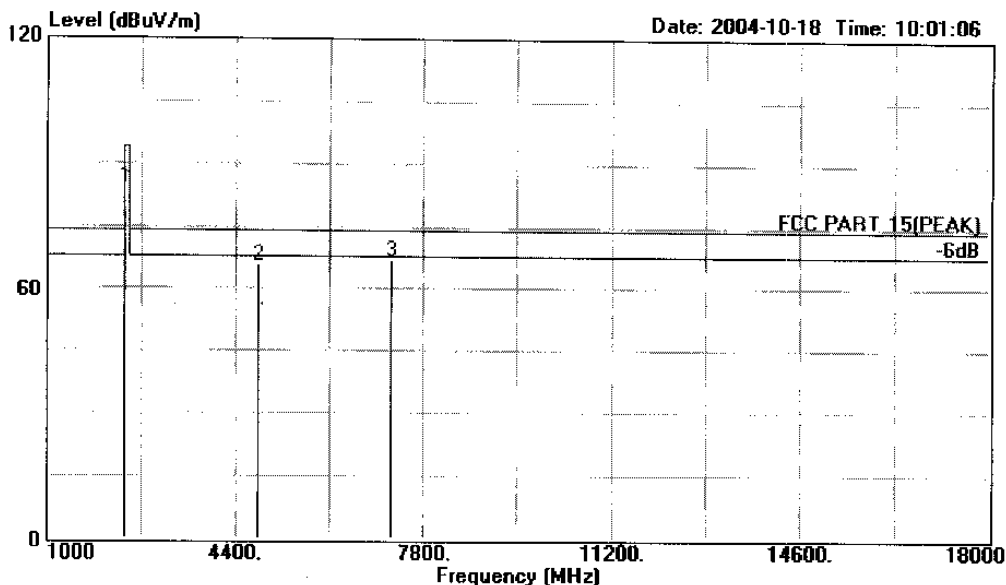


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 41 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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	2402.840	84.23	-9.77	94.00	51.75	29.03	3.45	Peak
2	4805.680	65.98	-8.02	74.00	27.30	33.91	4.77	Peak
3	7208.520	67.24	-6.76	74.00	22.79	37.33	7.12	Peak

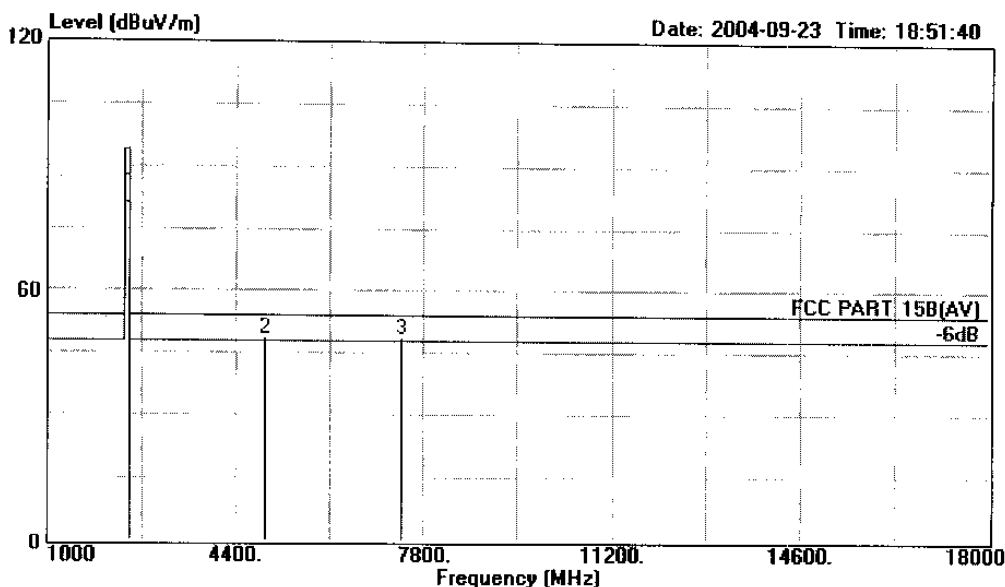


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 9 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR R HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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	2465.650	77.45	-16.55	94.00	44.50	29.15	3.80	Average
2	4931.300	48.81	-5.19	54.00	9.71	34.20	4.90	Average
3	7396.950	48.87	-5.13	54.00	4.02	37.63	7.22	Average

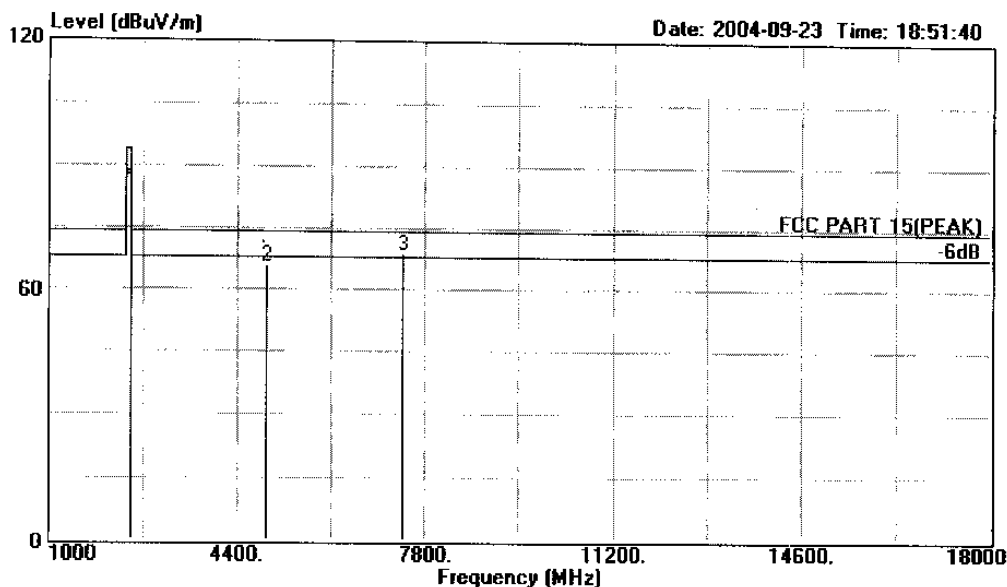


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 8 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

			Over	Limit	Read	Probe	Cable	
Freq	Level	Limit	Limit	Line	Level	Factor	Loss	Remark
MHz	dBuV/m		dB	dBuV/m	dBuV	dB	dB	
1	2465.650	84.45	-9.55	94.00	51.50	29.15	3.80	Peak
2	4931.300	65.81	-8.19	74.00	26.71	34.20	4.90	Peak
3	7396.950	68.87	-5.13	74.00	24.02	37.63	7.22	Peak

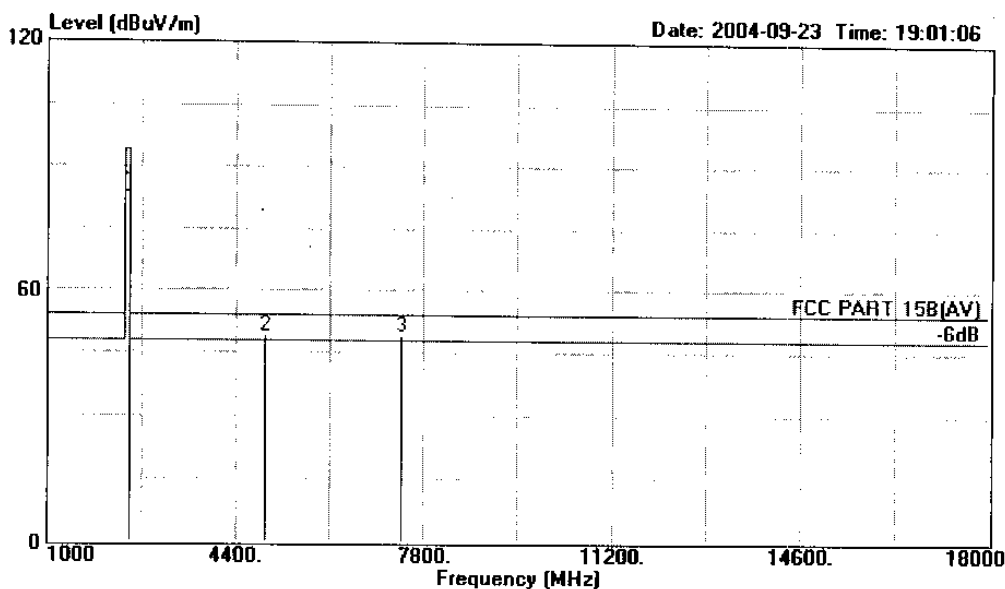


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 12 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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	2465.650	79.92	-14.08	94.00	46.97	29.15	3.80	Average
2	4931.300	49.24	-4.76	54.00	10.14	34.20	4.90	Average
3	7396.950	49.11	-4.89	54.00	4.26	37.63	7.22	Average

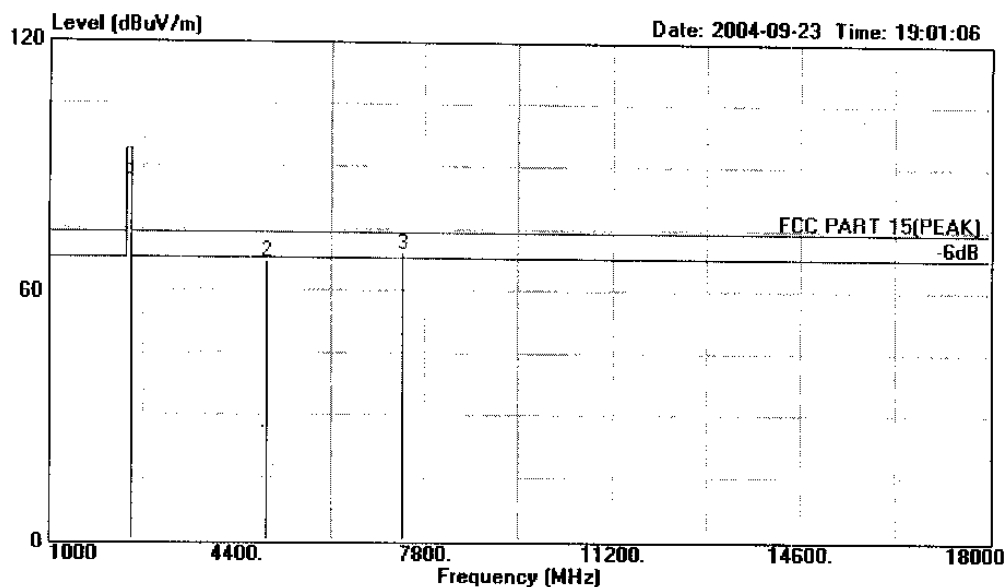


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 11 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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	2465.650	85.92	-8.08	94.00	52.97	29.15	3.80	Peak
2	4931.300	67.24	-6.76	74.00	28.14	34.20	4.90	Peak
3	7396.950	69.11	-4.89	74.00	24.26	37.63	7.22	Peak

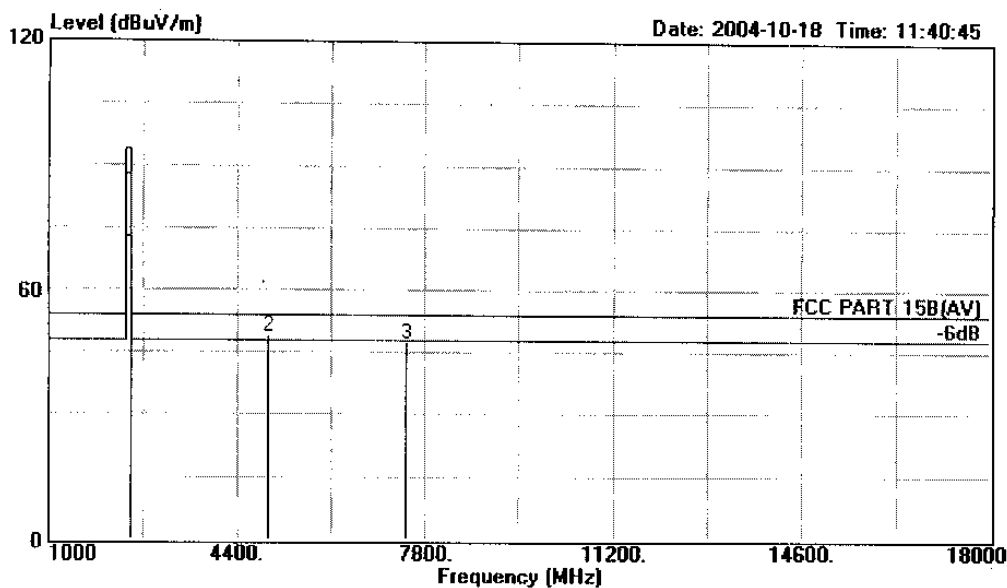


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 48 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/W : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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	2480.910	68.63	-25.37	94.00	35.53	29.19	3.91	Average
2	4961.820	49.10	-4.90	54.00	9.88	34.29	4.93	Average
3	7442.730	47.59	-6.41	54.00	2.63	37.72	7.24	Average

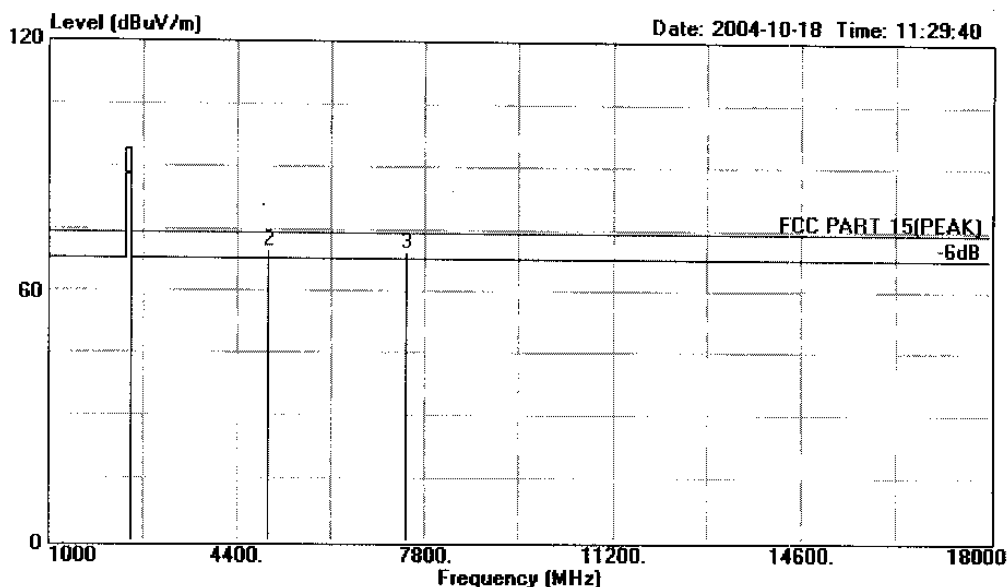


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 47 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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 2480.910	84.19	-9.81	94.00	51.09	29.19	3.91	Peak	
2 4961.820	70.10	-3.90	74.00	30.88	34.29	4.93	Peak	
3 7442.730	69.60	-4.40	74.00	24.64	37.72	7.24	Peak	

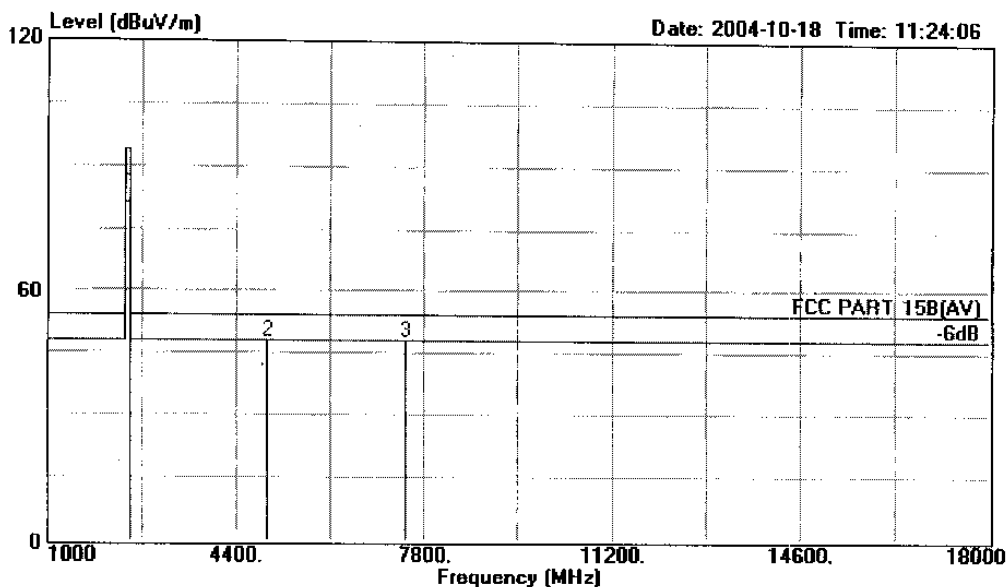


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 46 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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	2480.910	77.25	-16.75	94.00	44.15	29.19	3.91	Average
2	4961.820	47.95	-6.05	54.00	8.73	34.29	4.93	Average
3	7442.730	47.99	-6.01	54.00	3.03	37.72	7.24	Average

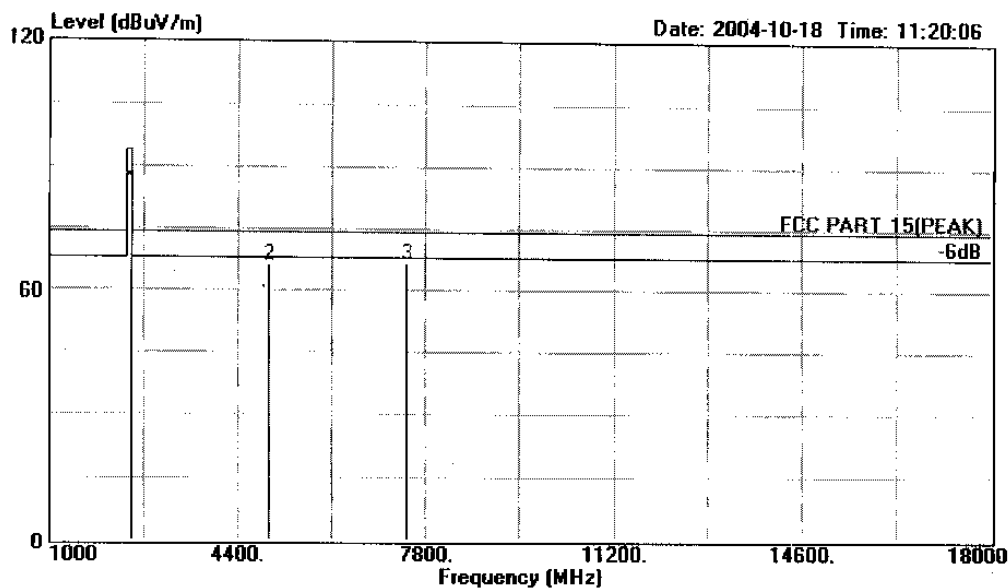


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Road, Block S2,
Shenzhen Science & Industry Park
Nantou, Shenzhen, Guangdong, China
Tel: +86-755-26639496 Fax: +86-755-26632877

Data#: 45 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
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	2480.910	84.23	-9.77	94.00	51.13	29.19	3.91	Peak
2	4961.820	66.22	-7.78	74.00	27.00	34.29	4.93	Peak
3	7442.730	66.90	-7.10	74.00	21.94	37.72	7.24	Peak

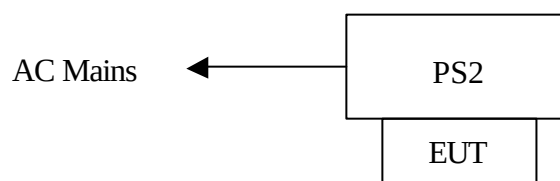
4. FREQUENCY HOPPING SYSTEM CHANNEL NUMBER MEASUREMENT

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: PS2 2.4G RF Wireless Controller (Transmit + Receiver))

4.3. Specification Limits (§15.249)

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

4.4. Operating Condition of EUT

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

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

4.5. 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.

4.6. Test Results

PASSED.

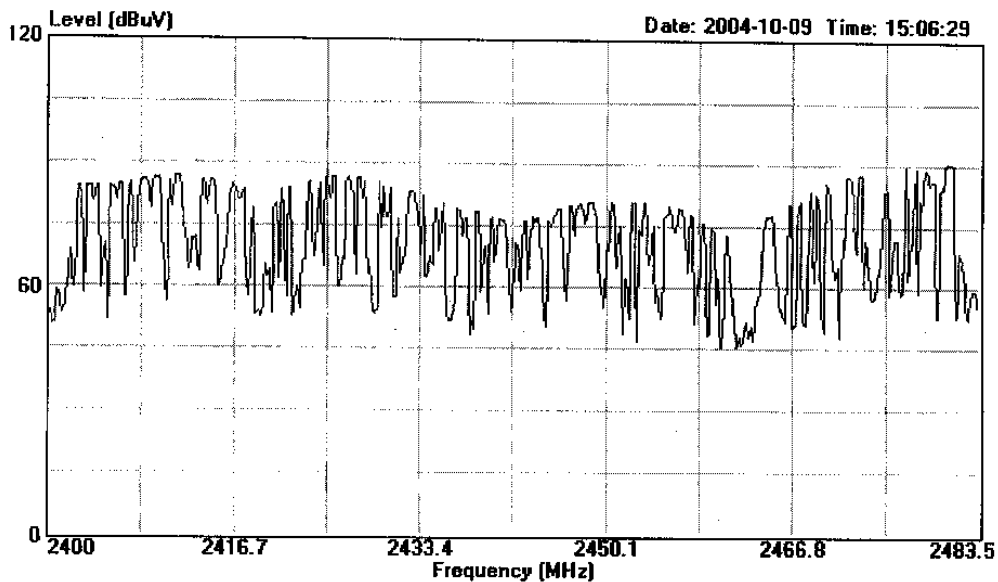
The testing data was attached in the next pages.

**信華科技(深圳)有限公司**

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 36 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Numbers of Channels:79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

5. DEVIATION TO TEST SPECIFICATIONS

(None.)

APPENDIX I



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

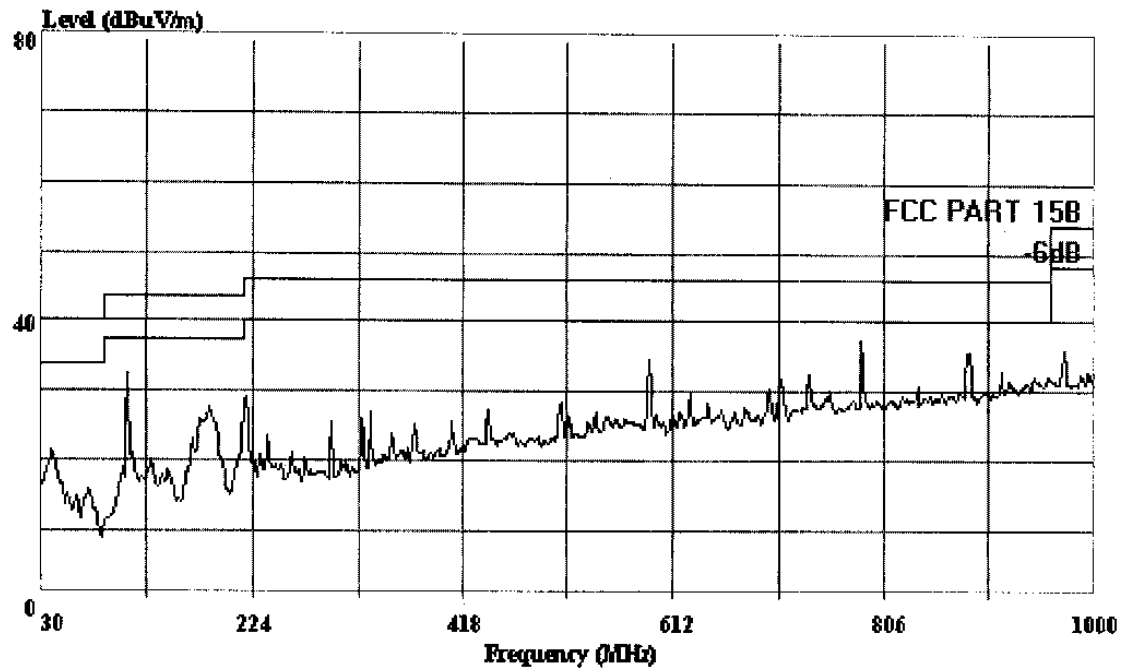
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 15 File#: E-core.emi

Date: 2004-10-11 Time: 09:32:09



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

Test Mode: Channel 1

Engineer : Seco

Memo : Temp:24'C Humi:54%



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

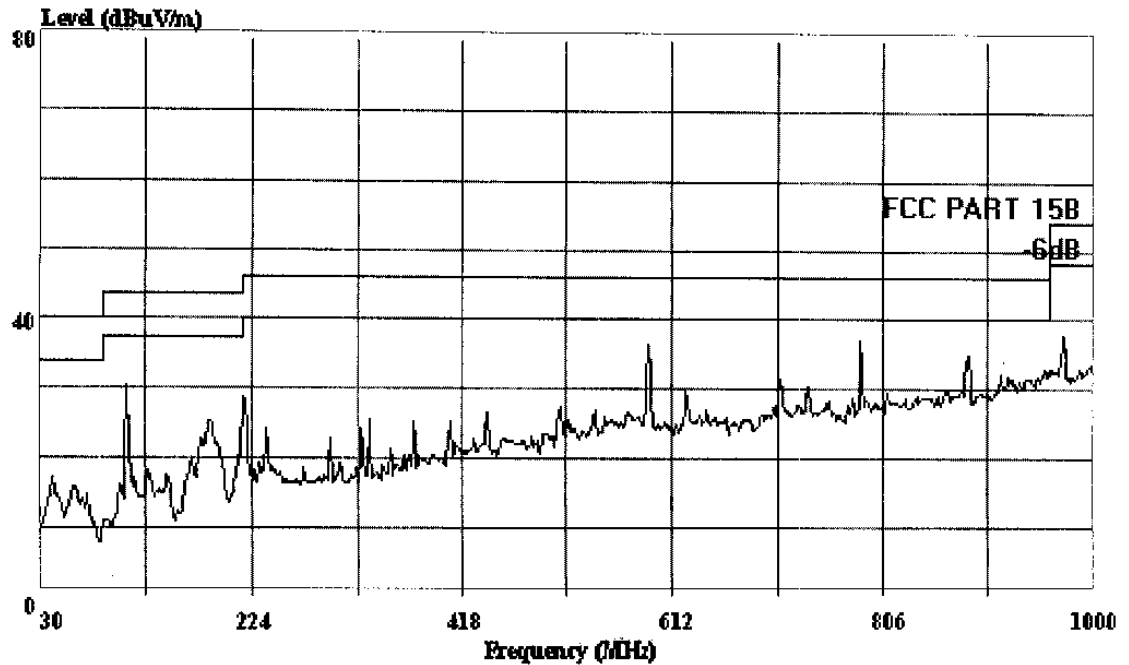
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 16 File#: E-core.emi

Date: 2004-10-11 Time: 09:32:52



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

Test Mode: Channel 1

Engineer : Seco

Memo : Temp:24'C Humi:54%

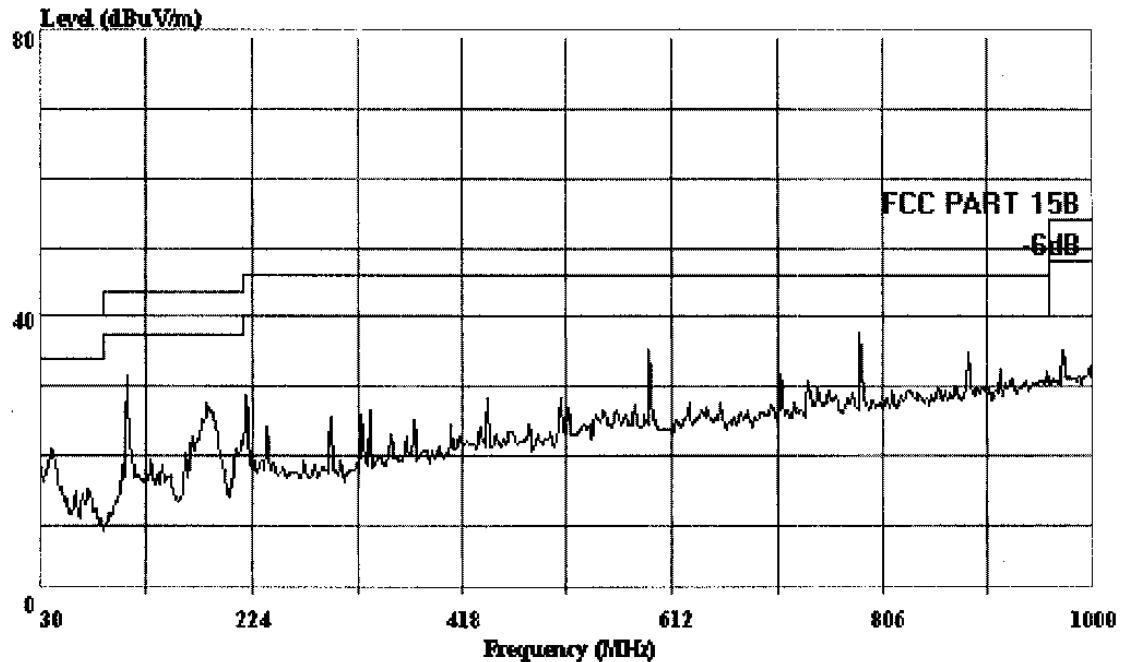


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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

Data#: 14 File#: E-core.emi

Date: 2004-10-11 Time: 09:31:29



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

Test Mode: Channel 40

Engineer : Seco

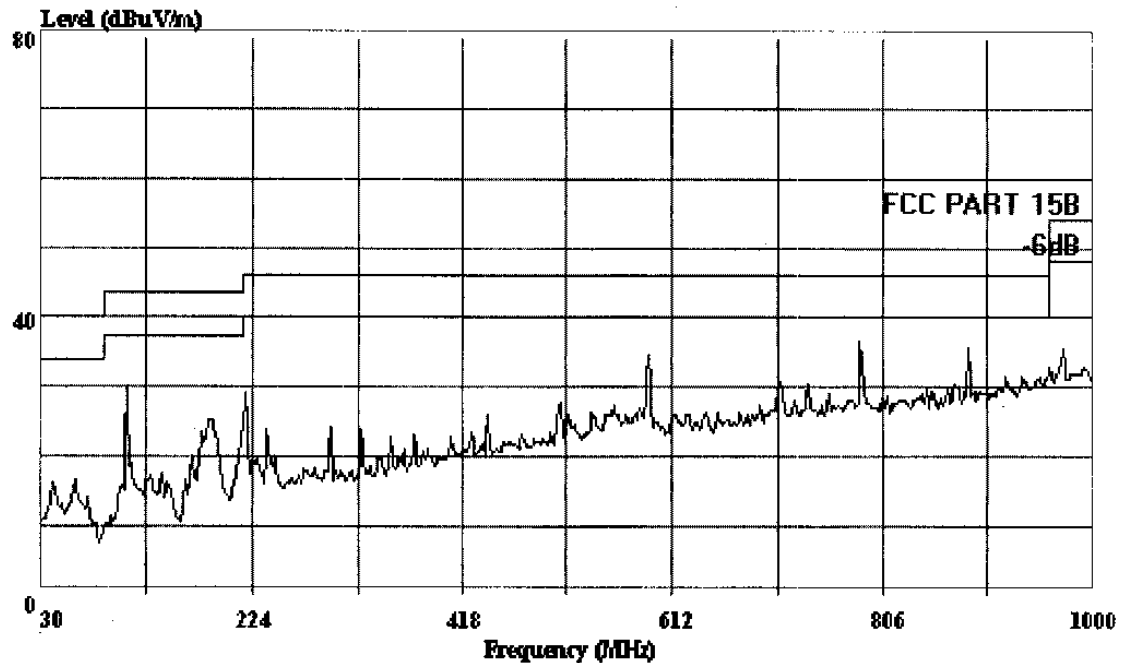
Memo : Temp:24'C Humi:54%



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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

Data#: 13 File#: E-core.emi Date: 2004-10-11 Time: 09:31:05



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
 M/N : HP5139A(receiver)
 Power : DC6V With PS2 AC Input 120V/60Hz
 Test Mode: Channel 40
 Engineer : Seco
 Memo : Temp:24'C Humi:54%



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park

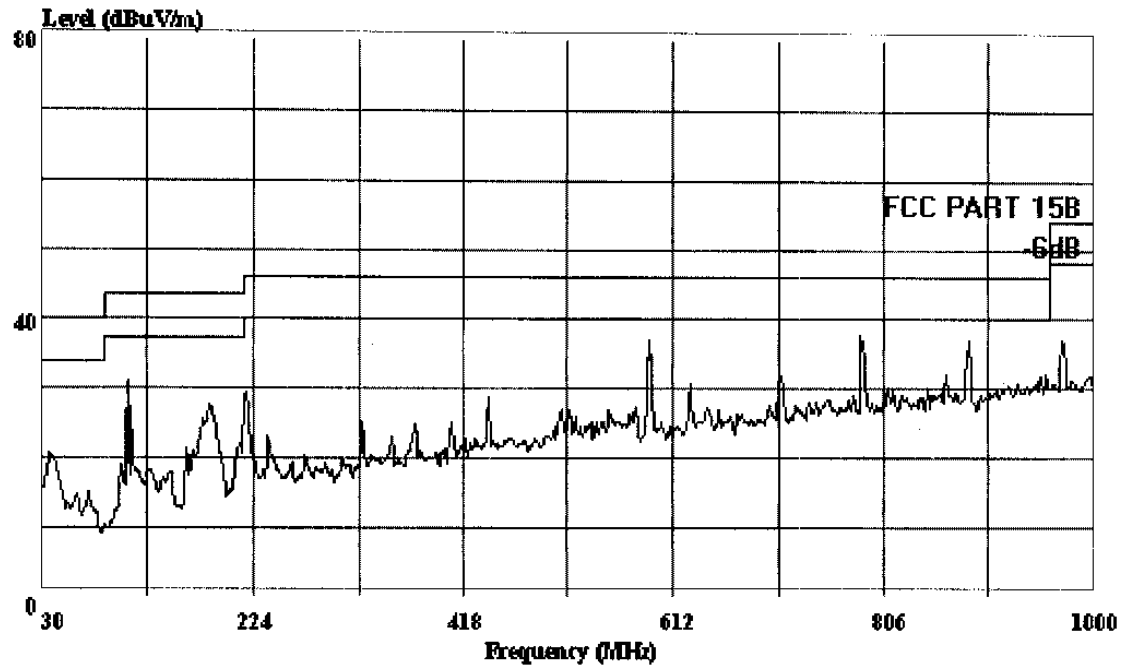
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 9

File#: E-core.emi

Date: 2004-10-11 Time: 09:26:07



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

Test Mode: Channel 79

Engineer : Seco

Memo : Temp:24'C Humi:54%

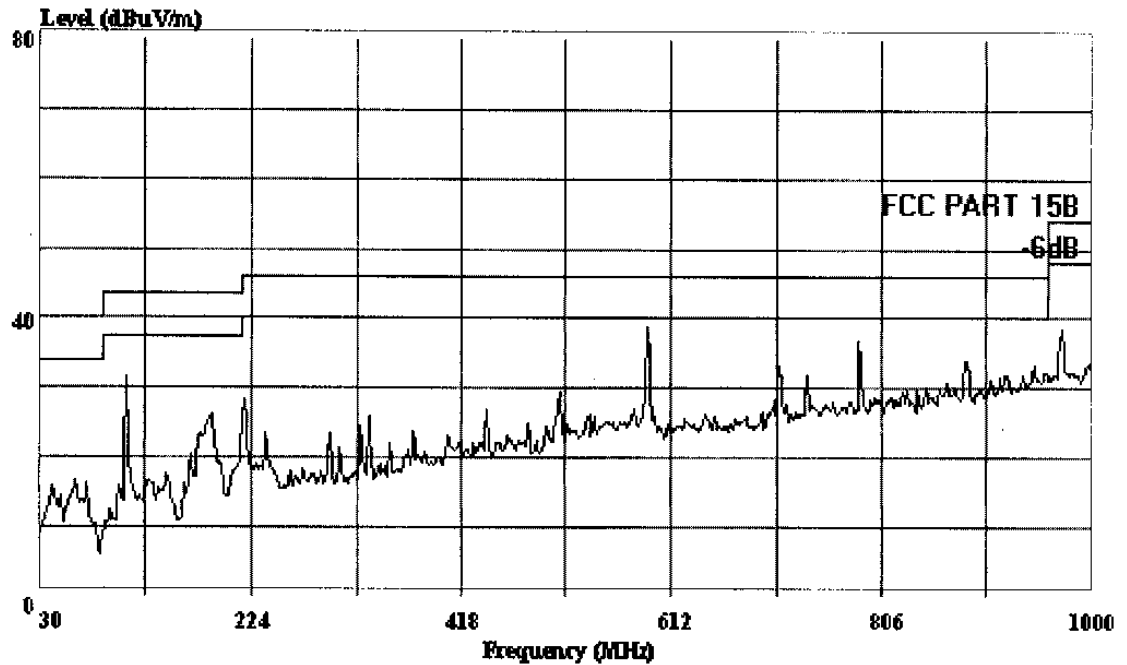


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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

Data#: 11 File#: E-core.emi

Date: 2004-10-11 Time: 09:29:27



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : PS2 2.4G RF wireless controller

: (transmit+receiver)

M/N : HP5139A(receiver)

Power : DC6V With PS2 AC Input 120V/60Hz

Test Mode: Channel 79

Engineer : Seco

Memo : Temp:24'C Humi:54%

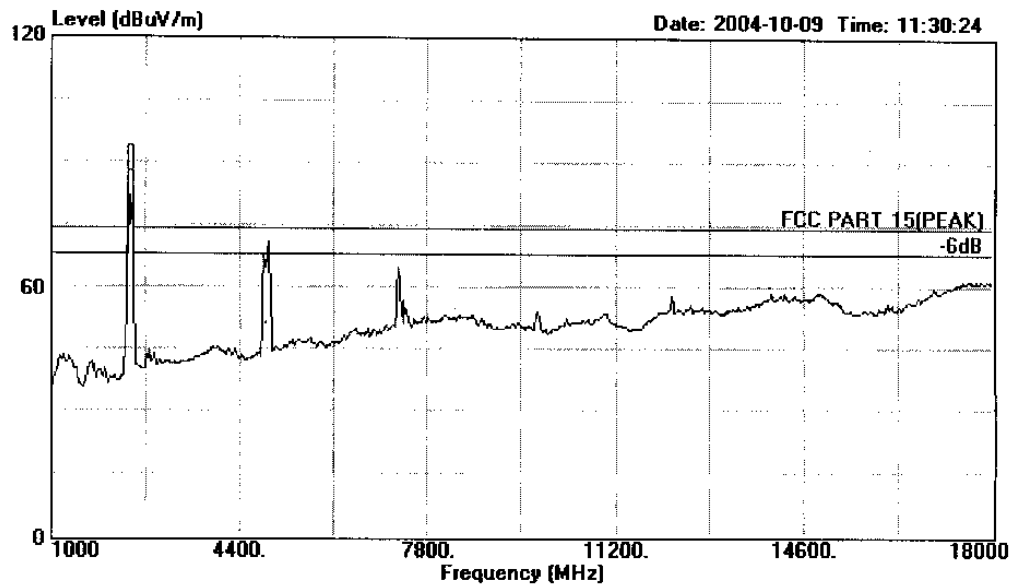


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 23 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

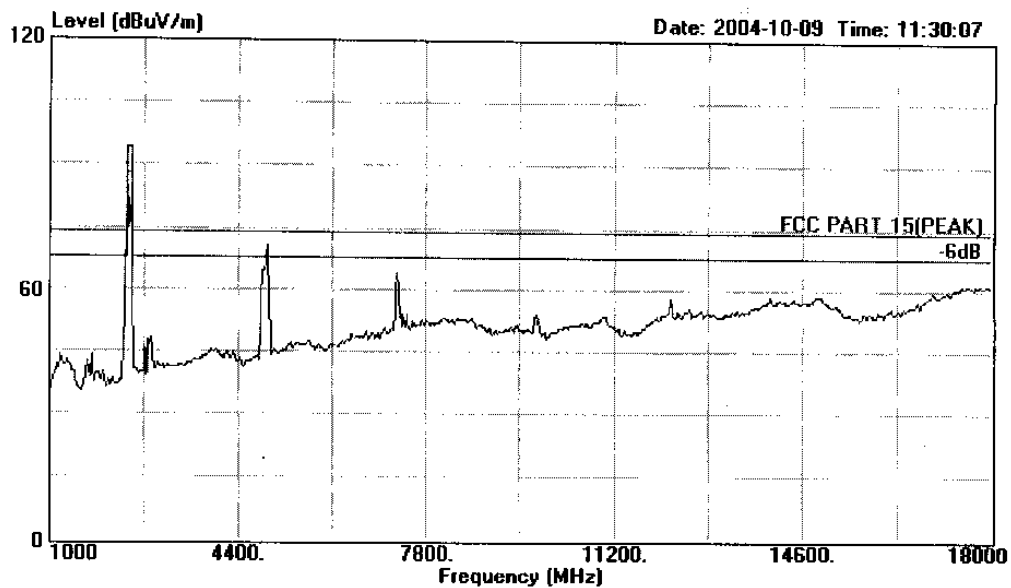


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 22 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

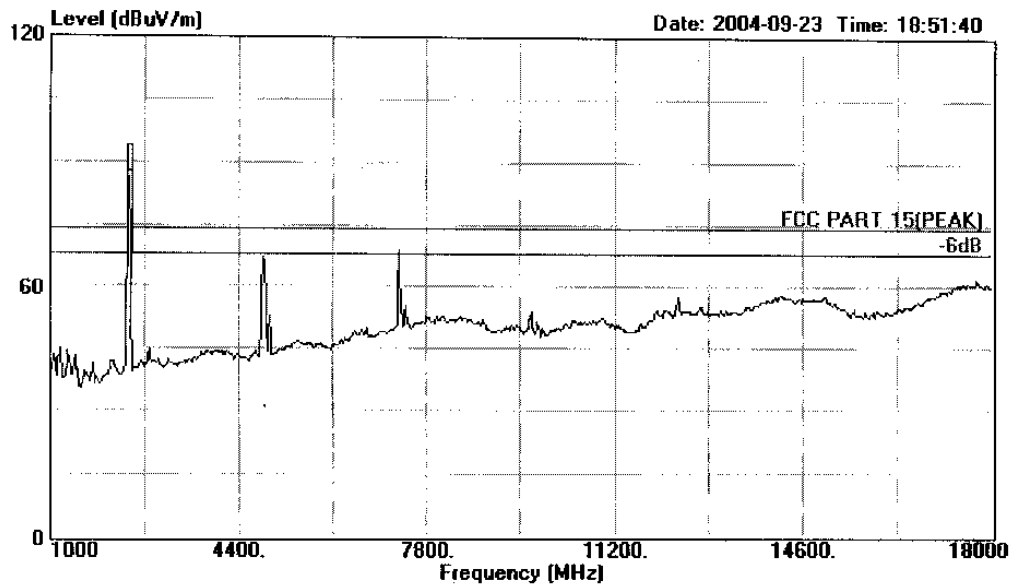


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 7 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

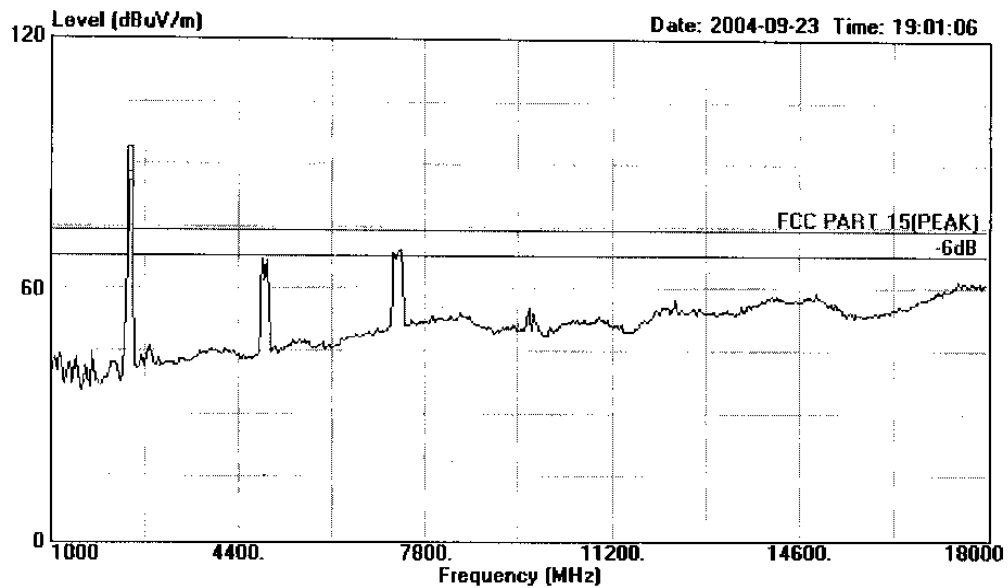


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 10 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

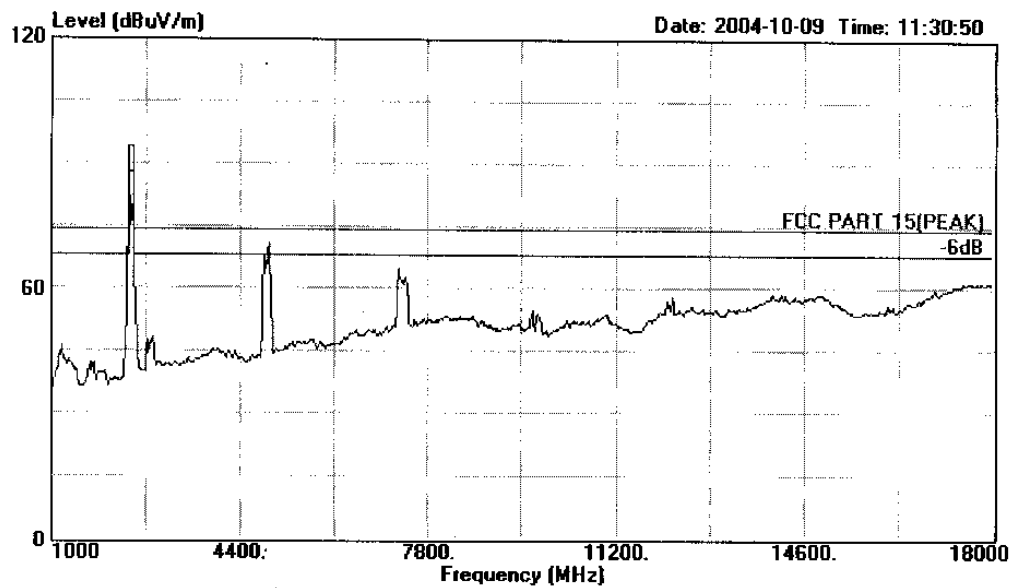


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 24 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

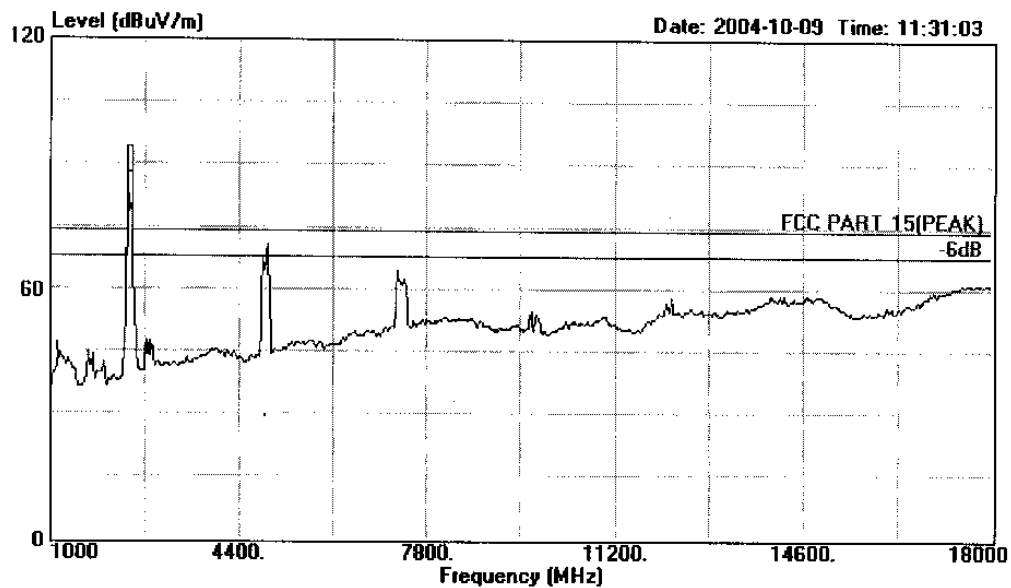


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 25 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

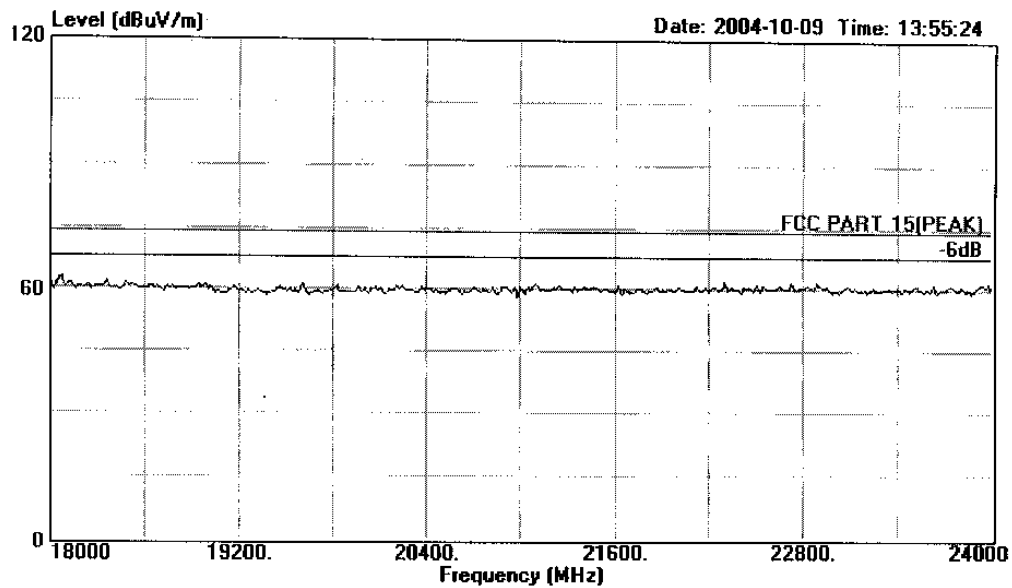


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 30 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

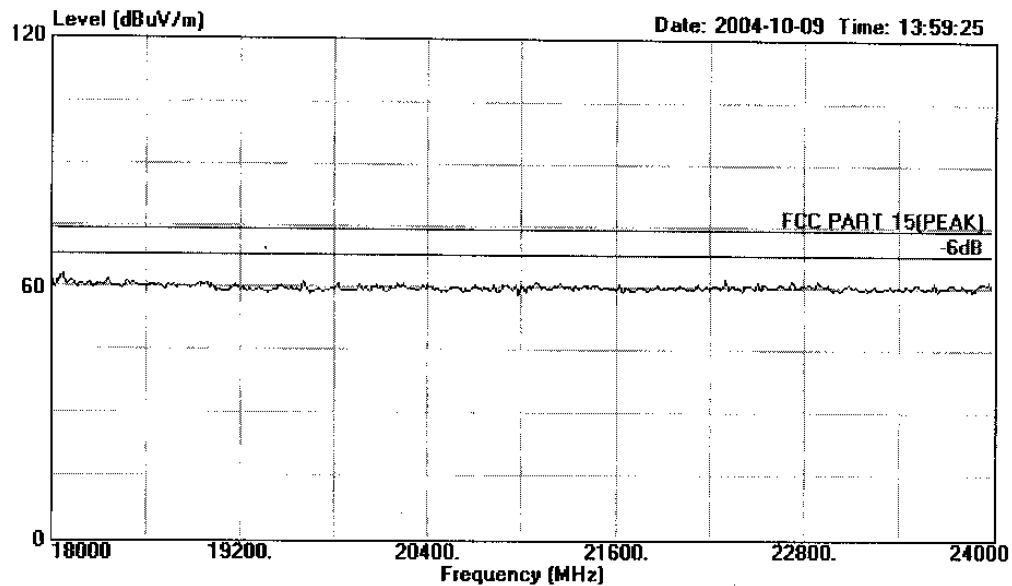


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 31 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

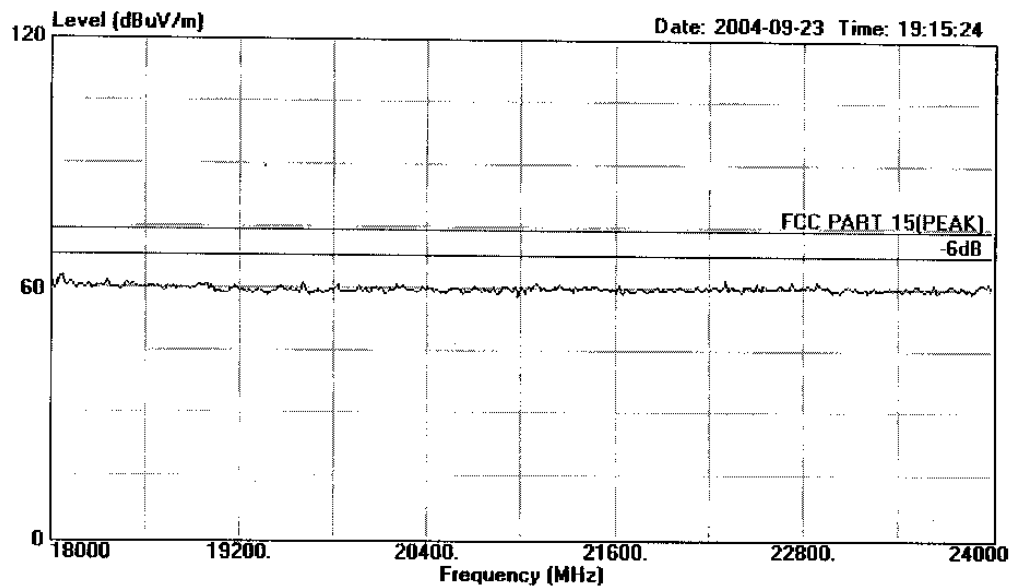


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 14 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

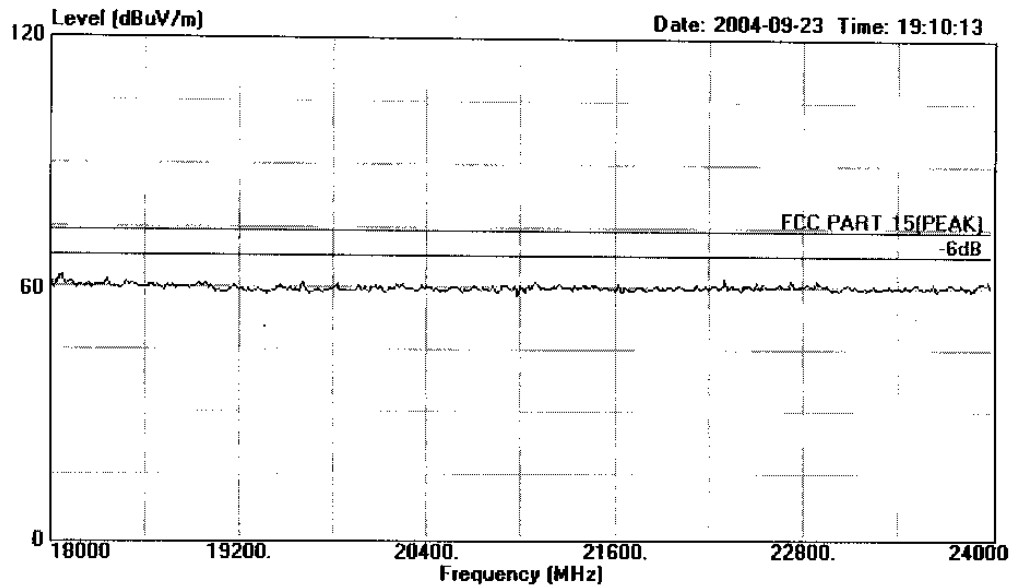


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 13 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

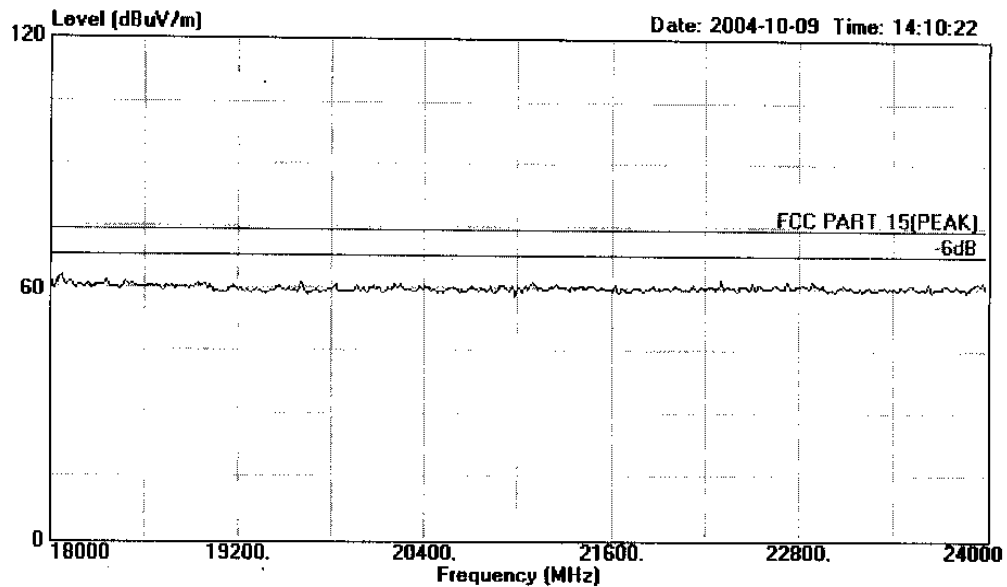


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 33 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

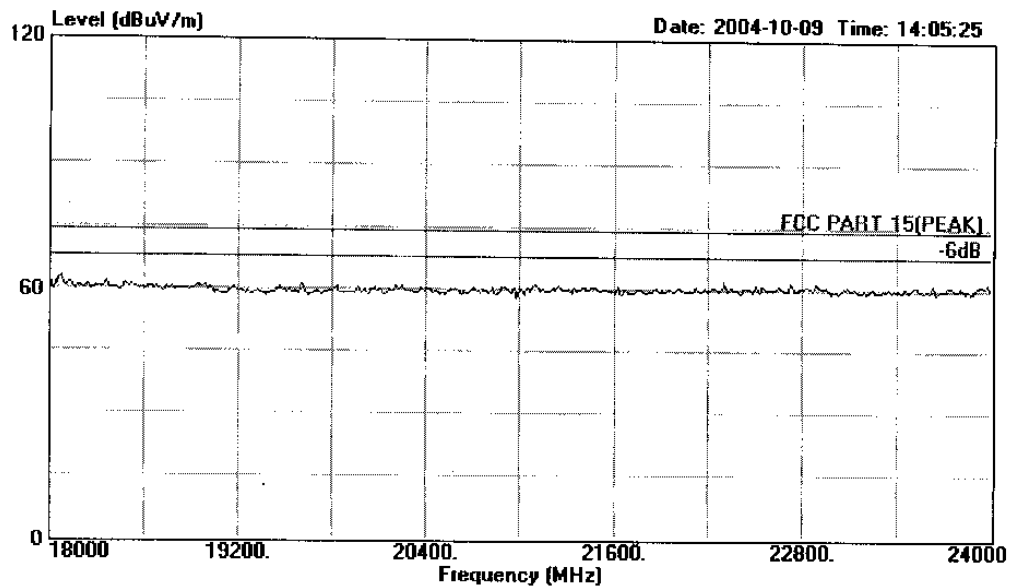


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

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

Data#: 32 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139A(receiver)
Power : DC6V With PS2 AC Input 120V/60Hz
Test Mode : Channel 79
Test Engineer : Saco
Memo : Temp:24'C Humi:54%