

APPLICATION FOR CERTIFICATION

On Behalf of

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

PS2 2.4G RF Wireless Controller (Transmit + Receiver)

Model Number: HP5139 (Controller)

Prepared for : E-Core Technology (China) Co., Ltd.
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Report Number : ACS-F04308
Date of Test : Sep.11~Oct.21, 2004
Date of Report : Oct.21, 2004

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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. : HP5139 (Controller)
 (B) SERIAL NO. : F2004102101
 (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.

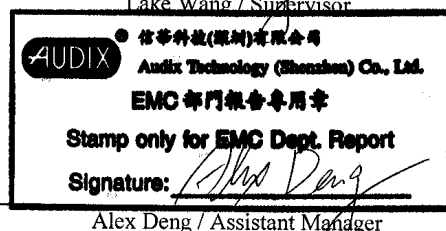
This report applies to above tested sample only. This report shall not be reproduced in part without written approval of AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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 : Sep.11~Oct.21, 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	:	HP5139 (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	:	Sep.11~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

Conducted Emission Uncertainty	=	$\pm 2.66\text{dB}$
Radiated Emission Uncertainty	=	$\pm 4.26\text{dB}$

2. POWER LINE CONDUCTED EMISSION TEST

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

3. RADIATED EMISSION TEST

3.1. Test Equipment

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

3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
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

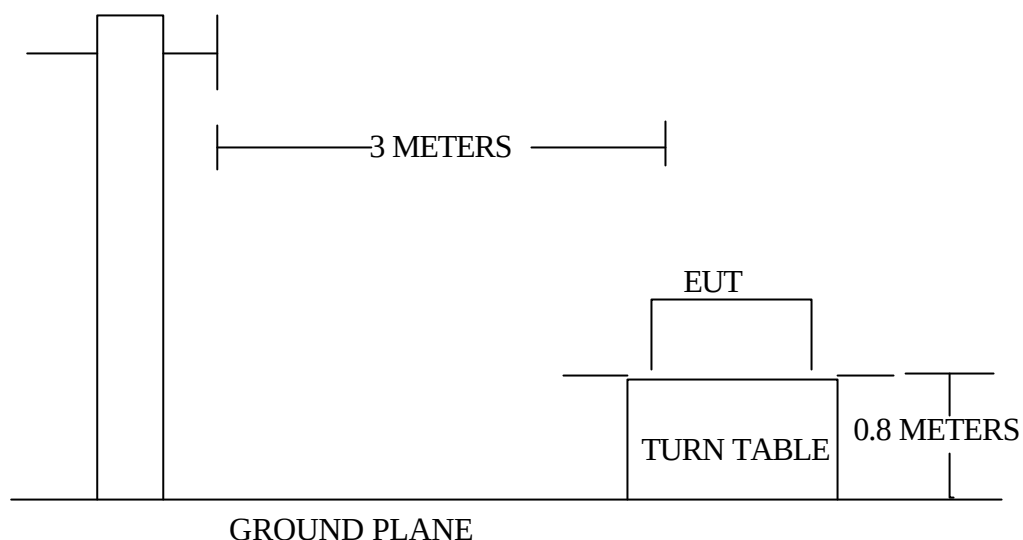
EUT

(EUT: 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 $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V/m}$
 - (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 : HP5139 (Controller)
Serial Number : F2004102101
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 :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	54%
Model No. :	HP5139 (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
41.640	15.05	1.21	4.34	20.61	-19.39	40.00
130.880	11.87	2.34	2.87	17.08	-26.42	43.50
169.680	10.98	2.70	5.26	18.94	-24.56	43.50
344.280	15.55	4.16	2.65	22.36	-23.64	46.00
533.430	18.18	6.05	2.11	26.34	-19.66	46.00
676.020	19.99	6.51	3.10	29.60	-16.40	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 676.020MHz with corrected signal level of 29.60dBμV/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 :

Wabe Wang

Date of Test :	<u>Oct.21, 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>HP5139 (Controller)</u>	Test Mode :	<u>Channel 1</u>
Test Engineer:	<u>Seco</u>		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
	Factor	Loss	Vertical	Vertical	Limits	
MHz	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
41.640	10.54	1.21	4.94	16.70	-23.30	40.00
61.040	6.91	1.51	9.04	17.46	-22.54	40.00
137.670	11.18	2.40	3.35	16.93	-26.57	43.50
254.070	12.13	3.42	3.69	19.23	-26.77	46.00
467.470	16.78	5.31	2.97	25.06	-20.94	46.00
564.470	19.37	6.08	1.72	27.17	-18.83	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 564.470MHz with corrected signal level of 27.17dBμV/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 : Wabe Wang

Date of Test : Oct.21, 2004 Temperature : 24°C
 EUT : PS2 2.4G RF Wireless Controller Humidity : 54%
 (Transmit + Receiver)
 Model No. : HP5139 (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	6.34	22.61	-17.39	40.00
119.240	12.35	2.23	3.50	18.08	-25.42	43.50
169.680	10.98	2.70	6.26	19.94	-23.56	43.50
266.680	13.28	3.49	3.42	20.18	-25.82	46.00
421.880	16.52	4.79	2.29	23.60	-22.40	46.00
557.680	19.46	6.18	1.17	26.81	-19.19	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 41.640MHz with corrected signal level of 22.61dBμV/m (Limit is 40.00dBμV/m) when the antenna was at horizontal polarization and at 5.0m 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 : Wabe Wang

Date of Test : Oct.21, 2004 Temperature : 24°C
 EUT : PS2 2.4G RF Wireless Controller Humidity : 54%
 (Transmit + Receiver)
 Model No. : HP5139 (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
41.640	10.54	1.21	6.01	17.77	-22.23	40.00
134.760	11.52	2.33	1.67	15.53	-27.97	43.50
289.960	12.69	3.75	2.26	18.70	-27.30	46.00
445.160	16.12	5.10	1.59	22.80	-23.20	46.00
561.560	19.48	6.07	1.60	27.15	-18.86	46.00
639.160	19.46	6.32	2.06	27.84	-18.16	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 639.160MHz with corrected signal level of 27.84dBμV/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 : Wabe Wang

Date of Test : Oct.11, 2004 Temperature : 24°C
 EUT : PS2 2.4G RF Wireless Controller Humidity : 54%
 (Transmit + Receiver)
 Model No. : HP5139 (Controller) Test Mode : Channel 79
 Test Engineer: Seco

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Horizontal	Horizontal	Limits	
	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
41.640	15.05	1.21	4.29	20.56	-19.44	40.00
138.640	11.92	2.40	3.25	17.56	-25.94	43.50
262.800	13.51	3.52	4.20	21.23	-24.77	46.00
359.800	15.62	4.26	3.28	23.16	-22.84	46.00
465.530	16.88	5.21	3.19	25.28	-20.72	46.00
644.980	20.03	6.31	2.11	28.45	-17.55	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 644.980MHz with corrected signal level of 28.45dBμV/m (Limit is 46.00dBμV/m) when the antenna was at horizontal polarization and at 1.1m high and the turn table was at 0°.

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

Reviewer : Wabe Wang

Date of Test : Oct.11, 2004 Temperature : 24°C
 EUT : PS2 2.4G RF Wireless Controller Humidity : 54%
 (Transmit + Receiver)
 Model No. : HP5139 (Controller) 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
41.640	10.54	1.21	5.29	17.05	-22.95	40.00
61.040	6.91	1.51	8.18	16.60	-23.40	40.00
134.760	11.52	2.33	3.12	16.98	-26.52	43.50
309.360	12.82	3.89	4.90	21.62	-24.38	46.00
503.360	17.87	5.57	3.72	27.15	-18.85	46.00
607.150	19.17	6.43	3.92	29.53	-16.47	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 607.150MHz with corrected signal level of 29.53dBμV/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 : Wabe Wang

Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	54%
Model No. :	HP5139 (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
2402.840	29.03	3.45	37.90	70.38	-23.62	94.00	Average
4805.680	33.91	4.77	9.90	48.58	-5.42	54.00	Average
7028.350	37.06	7.03	3.89	47.98	-6.02	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
2402.840	29.03	3.45	52.90	85.38	-28.62	114.00	Peak
4805.680	33.91	4.77	29.90	68.58	-5.42	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 : Wabe Wang

Date of Test :	<u>Oct.21, 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>HP5139 (Controller)</u>	Test Mode :	<u>Channel 1</u>
Test Engineer:	<u>Seco</u>		

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	36.90	69.38	-24.62	94.00	Average
4805.680	33.91	4.77	10.90	49.58	-4.42	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
2402.840	29.03	3.45	51.90	84.38	-29.62	114.00	Peak
4805.680	33.91	4.77	30.90	69.58	-4.42	74.00	Peak
7028.346	37.06	7.03	25.89	69.98	-4.02	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.

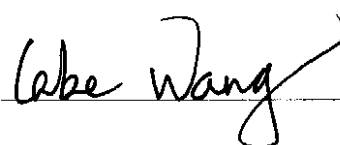
Reviewer : Wabe Wang

Date of Test	: Sep.23, 2004	Temperature	: 24°C
EUT	: PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity	: 54%
Model No.	: HP5139 (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
2465.650	29.15	3.80	46.00	78.95	-15.05	94.00	Average
4931.300	34.20	4.90	11.77	50.87	-3.13	54.00	Average
7396.950	37.63	7.22	5.36	50.21	-3.79	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	56.00	88.95	-25.05	114.00	Peak
4931.302	34.20	4.90	30.77	69.87	-4.13	74.00	Peak
7396.950	37.63	7.22	25.36	70.21	-3.79	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. :	HP5139 (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
2465.650	29.15	3.80	48.29	81.24	-12.76	94.00	Average
4931.300	34.20	4.90	9.90	49.00	-5.00	54.00	Average
7396.950	37.63	7.22	1.25	46.10	-7.90	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
2465.650	29.15	3.80	57.29	90.24	-23.76	114.00	Peak
4931.300	34.20	4.90	31.90	71.00	-3.00	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 : Wabe Wang

Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	54%
Model No. :	HP5139 (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
2480.910	29.19	3.91	36.50	69.60	-24.40	94.00	Average
4961.820	34.29	4.93	9.90	49.12	-4.88	54.00	Average
7442.730	37.72	7.24	3.80	48.76	-5.24	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
2480.910	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 : Wabe Wang

Date of Test :	Oct.21, 2004	Temperature :	24°C
EUT :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	54%
Model No. :	HP5139 (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
2480.910	29.19	3.91	36.50	69.60	-24.40	94.00	Average
4961.820	34.29	4.93	9.90	49.12	-4.88	54.00	Average
7442.730	37.72	7.24	3.80	48.76	-5.24	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
2480.910	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 : Wabe Wang



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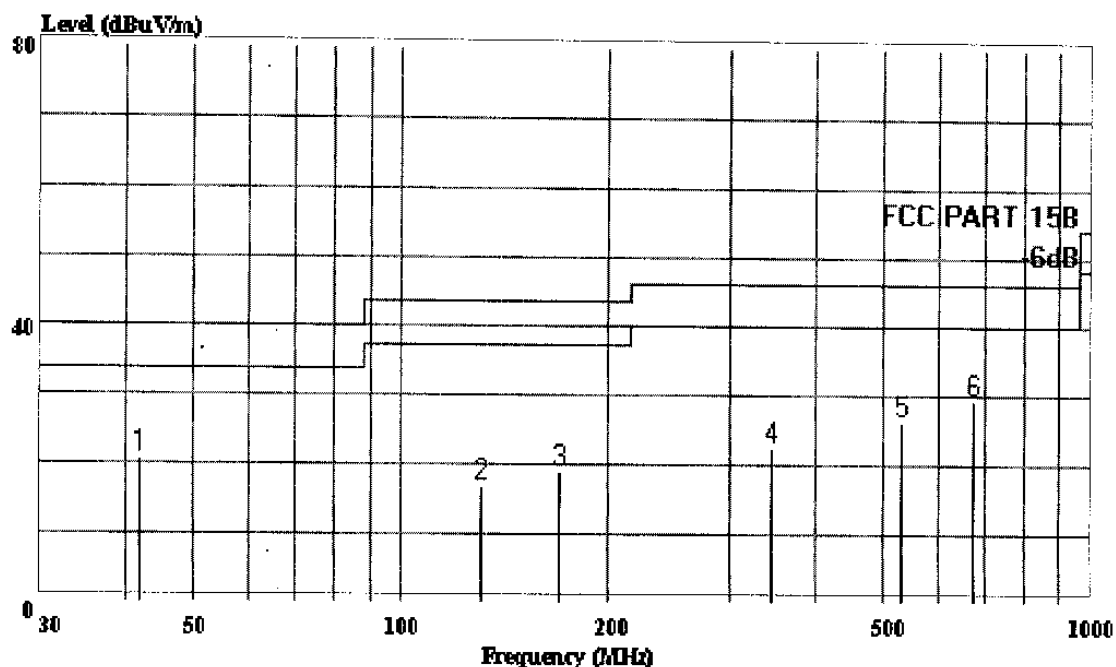
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 22 File#: E-core.emi

Date: 2004-10-21 Time: 09:17:35



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 : HP5139 (controller)

Power : Battery DC6V

Test Mode: Channel 1

Engineer : Seco

Memo : Temp:24'C Humi:54%

: Antpos:1.8m 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	20.61	-19.39	40.00	4.34	-15.05	1.21
2	130.880	17.08	-26.42	43.50	2.87	11.87	2.34
3	169.680	18.94	-24.56	43.50	5.26	10.98	2.70
4	344.280	22.36	-23.64	46.00	2.65	15.55	4.16
5	533.430	26.34	-19.66	46.00	2.11	18.18	6.05
6	676.020	29.60	-16.40	46.00	3.10	19.99	6.51



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

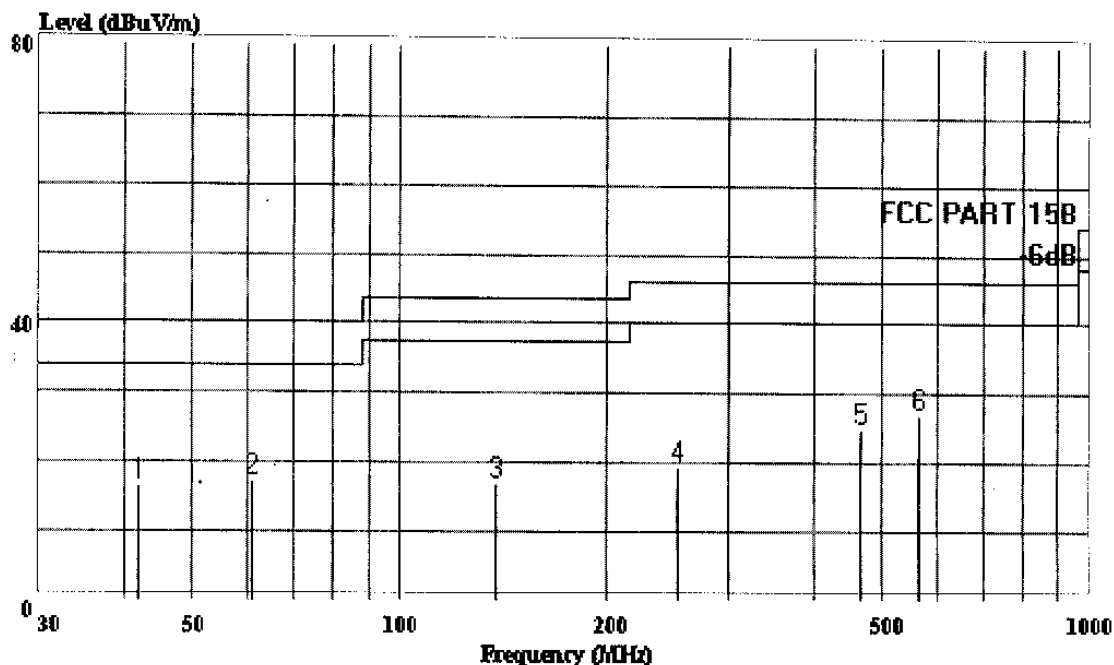
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 21 File#: E-core.emi

Date: 2004-10-21 Time: 09:16:39



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 : HP5139 (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	Read	Probe	Cable
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	41.640	16.70	-23.30	40.00	4.94	10.54	1.21
2	61.040	17.46	-22.54	40.00	9.04	6.91	1.51
3	137.670	16.93	-26.57	43.50	3.35	11.18	2.40
4	254.070	19.23	-26.77	46.00	3.69	12.13	3.42
5	467.470	25.06	-20.94	46.00	2.97	16.78	5.31
6	564.470	27.17	-18.83	46.00	1.72	19.37	6.08



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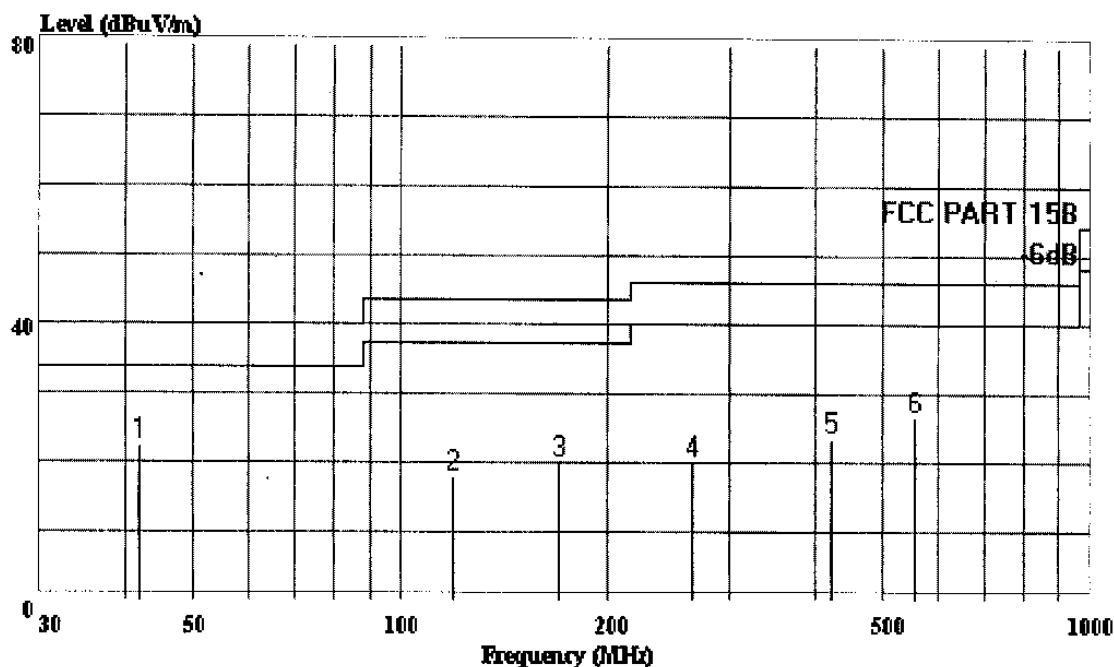
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 23 File#: E-core.emi

Date: 2004-10-21 Time: 09:18:42



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 : HP5139 (controller)

Power : Battery DC6V

Test Mode: Channel 40

Engineer : Seco

Memo : Temp:24°C Humi:54%

: Antpos:5.0m Tablepos:0'

Page: 1

	Freq	Level	Over Limit	Limit	Read	Probe	Cable
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	Loss
1	41.640	22.61	-17.39	40.00	6.34	15.05	1.21
2	119.240	18.08	-25.42	43.50	3.50	12.35	2.23
3	169.680	19.94	-23.56	43.50	6.26	10.98	2.70
4	266.680	20.18	-25.82	46.00	3.42	13.28	3.49
5	421.880	23.60	-22.40	46.00	2.29	16.52	4.79
6	557.680	26.81	-19.19	46.00	1.17	19.46	6.18



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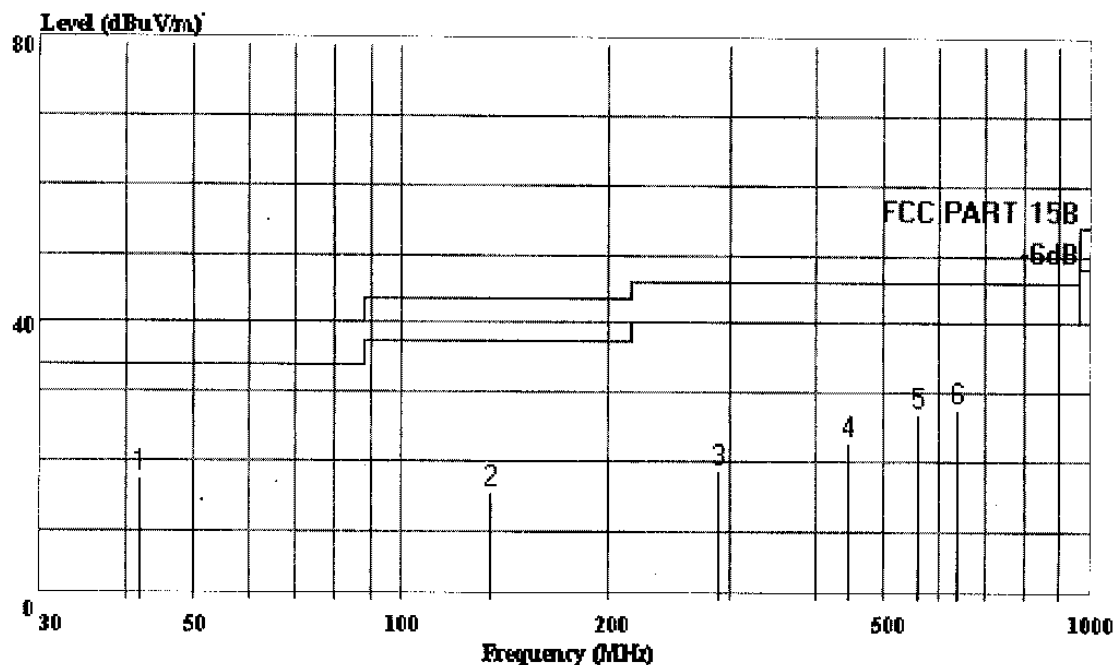
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 24 File#: E-core.emi

Date: 2004-10-21 Time: 09:19:31



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 : HP5139 (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	17.77	-22.23	40.00	6.01	10.54	1.21
2	134.760	15.53	-27.97	43.50	1.67	11.52	2.33
3	289.960	18.70	-27.30	46.00	2.26	12.69	3.75
4	445.160	22.80	-23.20	46.00	1.59	16.12	5.10
5	561.560	27.15	-18.86	46.00	1.60	19.48	6.07
6	639.160	27.84	-18.16	46.00	2.06	19.46	6.32



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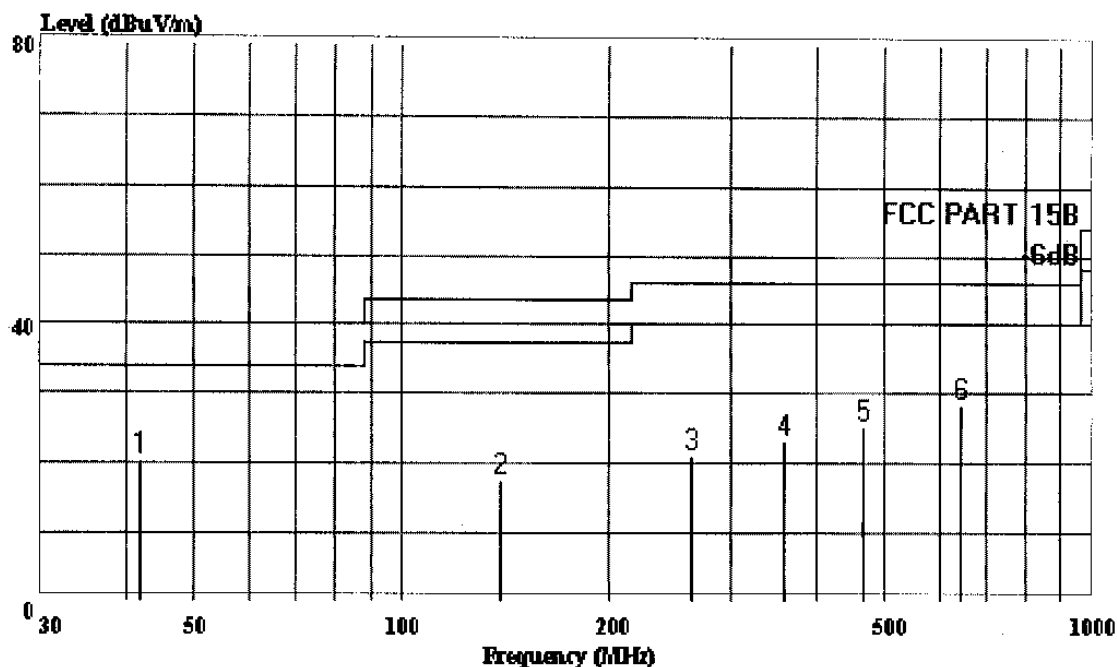
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 8

File#: E-core.emi

Date: 2004-10-11 Time: 09:21:24



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 : HP5139 (controller)

Power : Battery DC6V

Test Mode: Channel 79

Engineer : Seco

Memo : Temp:24'C Humi:54%

: Antpos:1.1m 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	20.56	-19.44	40.00	4.29	15.05	1.21
2	138.640	17.56	-25.94	43.50	3.25	11.92	2.40
3	262.800	21.23	-24.77	46.00	4.20	13.51	3.52
4	359.800	23.16	-22.84	46.00	3.28	15.62	4.26
5	465.530	25.28	-20.72	46.00	3.19	16.88	5.21
6	644.980	28.45	-17.55	46.00	2.11	20.03	6.31



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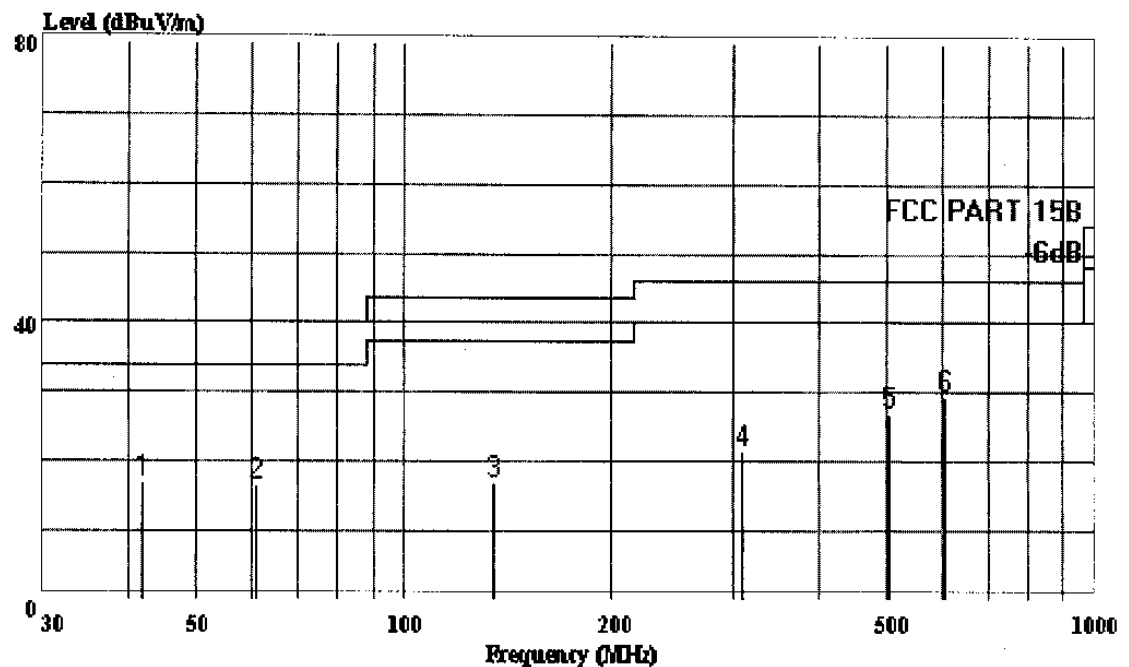
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 6 File#: E-core.emi

Date: 2004-10-11 Time: 09:18:44



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 : HP5139 (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	17.05	-22.95	40.00	5.29	10.54	1.21
2	61.040	16.60	-23.40	40.00	8.18	6.91	1.51
3	134.760	16.98	-26.52	43.50	3.12	11.52	2.33
4	309.360	21.62	-24.38	46.00	4.90	12.82	3.89
5	503.360	27.15	-18.85	46.00	3.72	17.87	5.57
6	607.150	29.53	-16.47	46.00	3.92	19.17	6.43

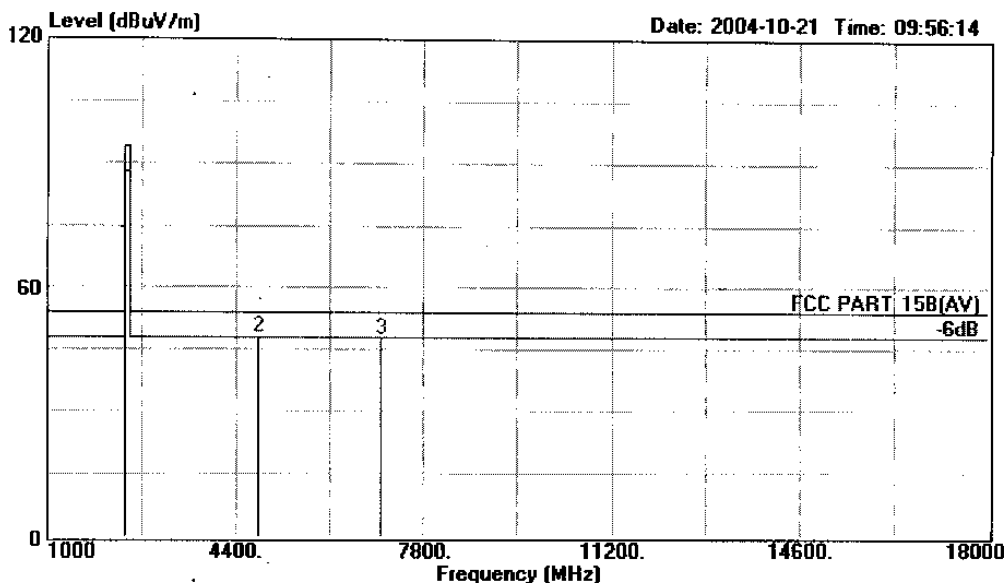


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Data#: 54 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2402.840	70.38	-23.62	94.00	37.90	29.03	3.45	Average
2	4805.680	48.58	-5.42	54.00	9.90	33.91	4.77	Average
3	7028.350	47.98	-6.02	54.00	3.89	37.06	7.03	Average

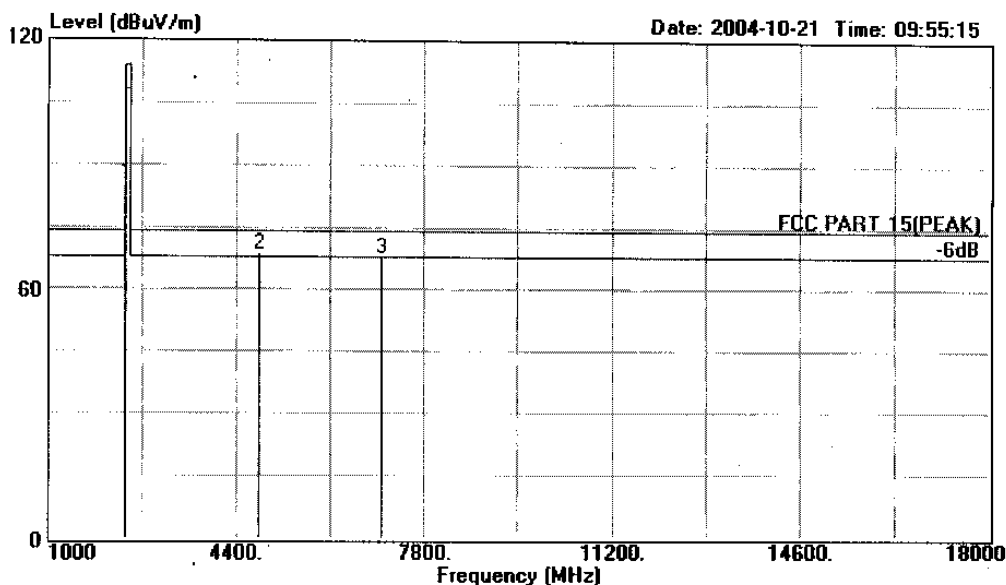


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Data#: 53 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2402.840	85.38	-28.62	114.00	52.90	29.03	3.45	Peak
2	4805.680	68.58	-5.42	74.00	29.90	33.91	4.77	Peak
3	7028.346	67.98	-6.02	74.00	23.89	37.06	7.03	Peak

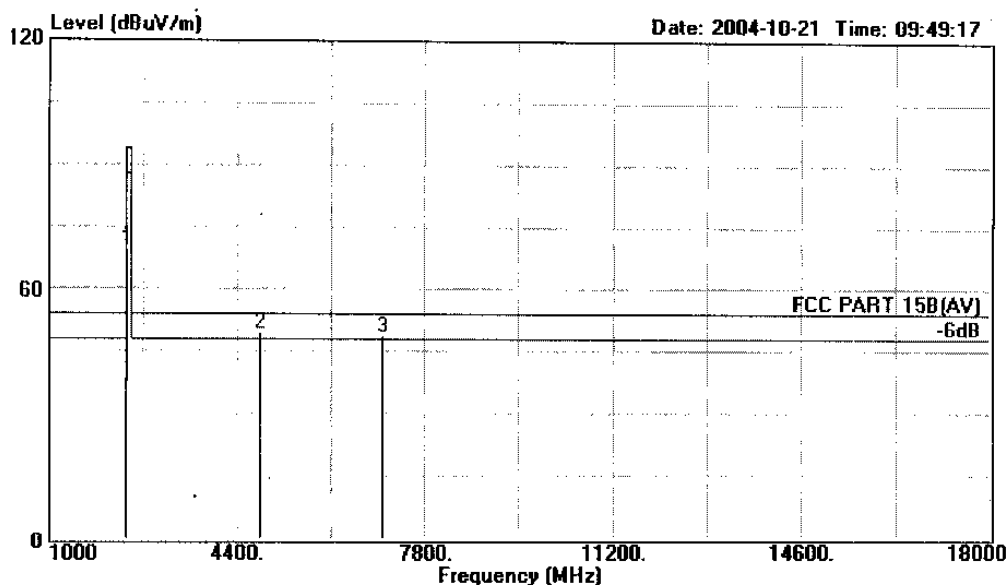


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Data#: 52 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2402.840	69.38	-24.62	94.00	36.90	29.03	3.45	Average
2	4805.680	49.58	-4.42	54.00	10.90	33.91	4.77	Average
3	7028.350	48.98	-5.02	54.00	4.89	37.06	7.03	Average

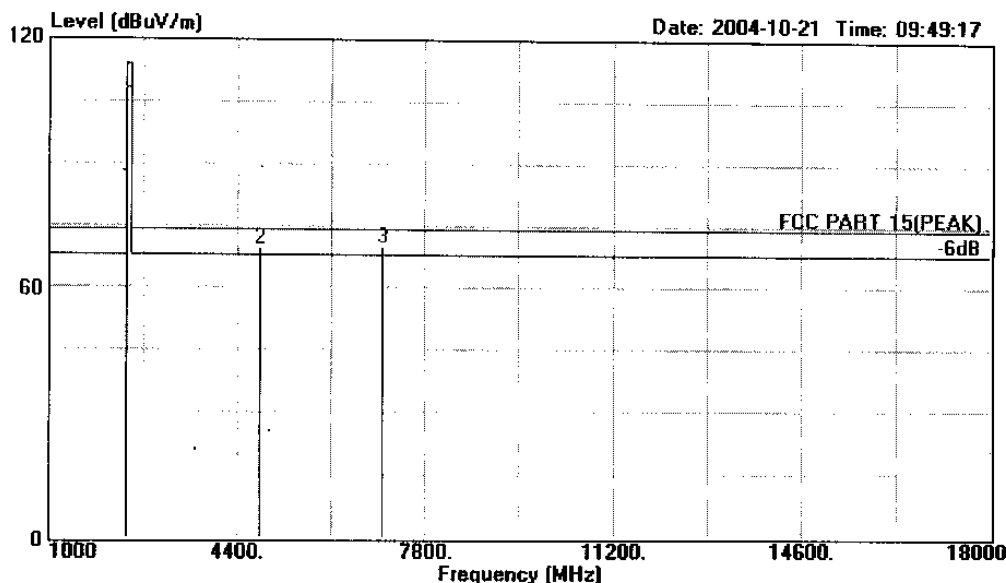


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Data#: 51 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2402.840	84.38	-29.62	114.00	51.90	29.03	3.45	Peak
2	4805.680	69.58	-4.42	74.00	30.90	33.91	4.77	Peak
3	7028.346	69.98	-4.02	74.00	25.89	37.06	7.03	Peak

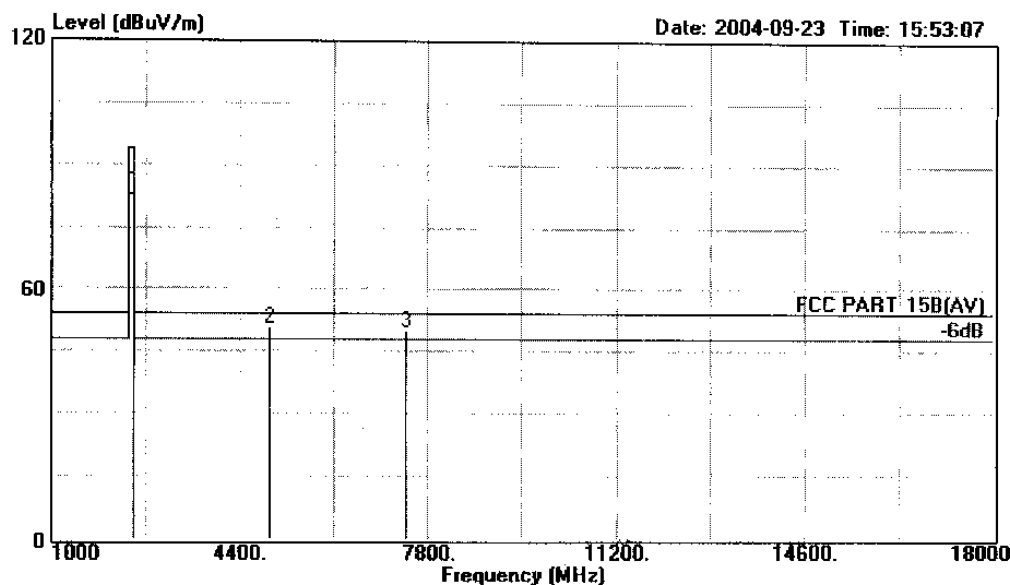


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Data#: 6 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR R HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2465.650	78.95	-15.05	94.00	46.00	29.15	3.80	Average
2	4931.300	50.87	-3.13	54.00	11.77	34.20	4.90	Average
3	7396.950	50.21	-3.79	54.00	5.36	37.63	7.22	Average

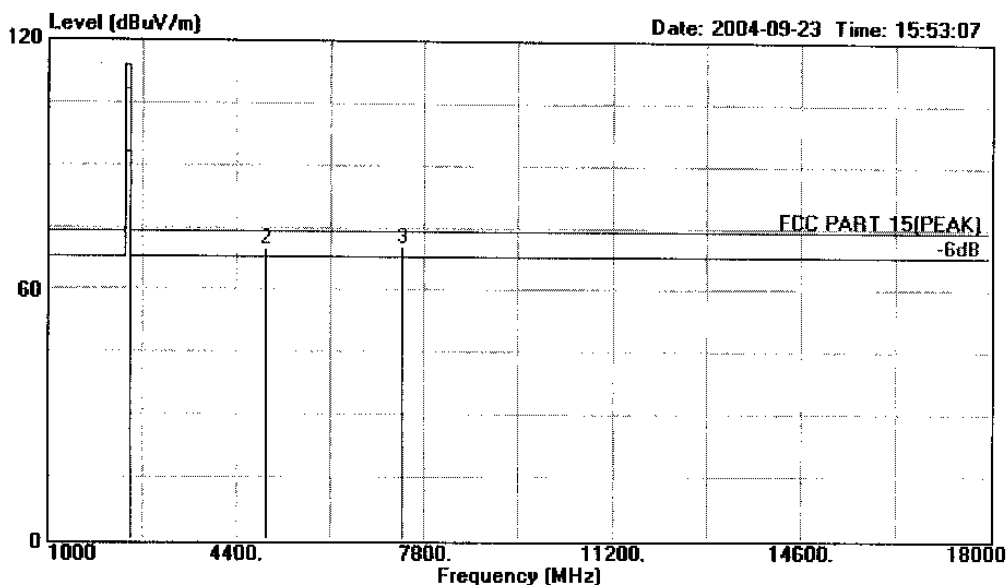


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Data#: 5 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2465.650	88.95	-25.05	114.00	56.00	29.15	3.80	Peak
2	4931.302	69.87	-4.13	74.00	30.77	34.20	4.90	Peak
3	7396.950	70.21	-3.79	74.00	25.36	37.63	7.22	Peak

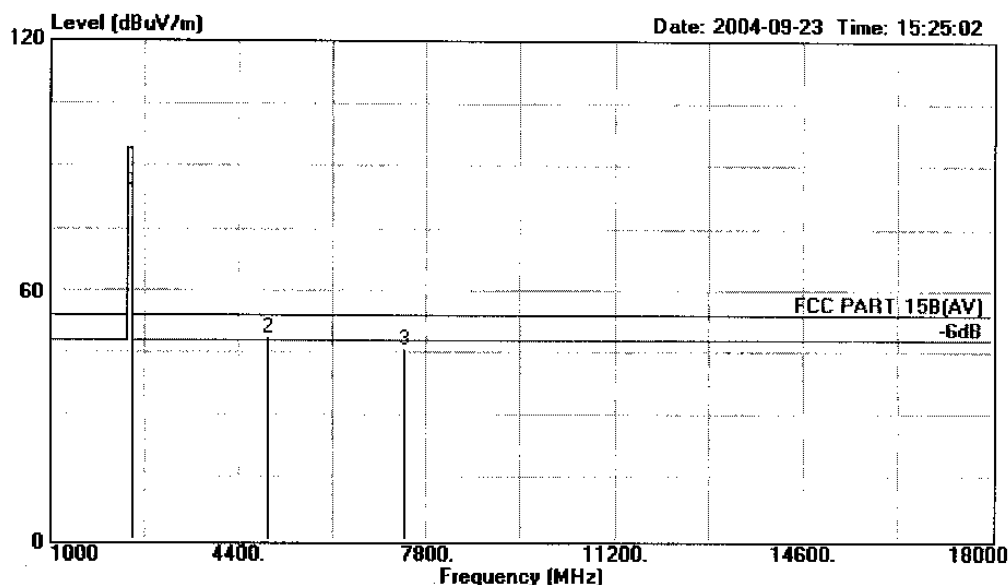


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Data#: 3 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2465.650	81.24	-12.76	94.00	48.29	29.15	3.80	Average
2	4931.300	49.00	-5.00	54.00	9.90	34.20	4.90	Average
3	7396.950	46.10	-7.90	54.00	1.25	37.63	7.22	Average

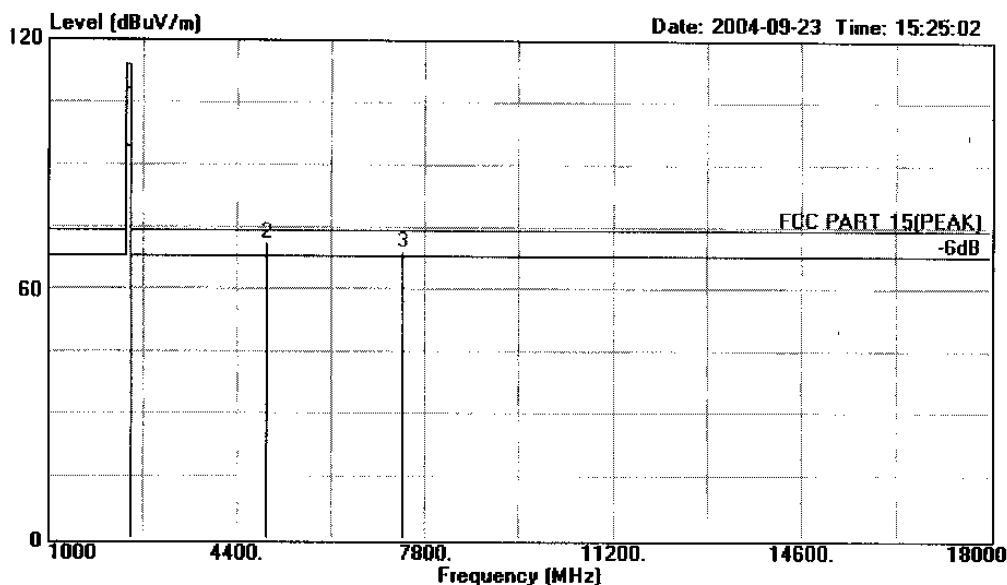


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Data#: 2 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2465.650	90.24	-23.76	114.00	57.29	29.15	3.80	Peak
2	4931.300	71.00	-3.00	74.00	31.90	34.20	4.90	Peak
3	7396.950	69.10	-4.90	74.00	24.25	37.63	7.22	Peak

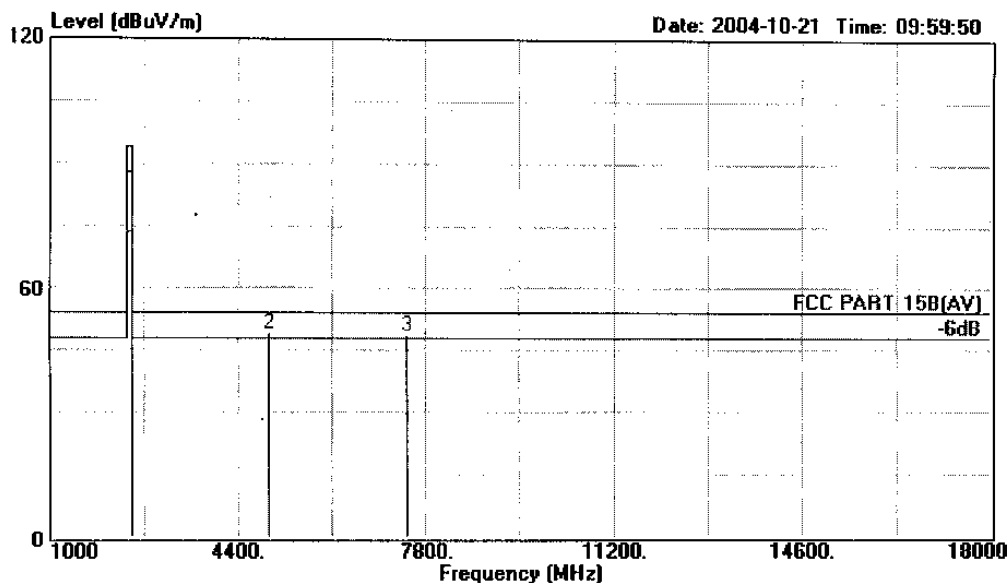


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Data#: 56 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2480.910	69.60	-24.40	94.00	36.50	29.19	3.91	Average
2	4961.820	49.12	-4.88	54.00	9.90	34.29	4.93	Average
3	7442.730	48.76	-5.24	54.00	3.80	37.72	7.24	Average

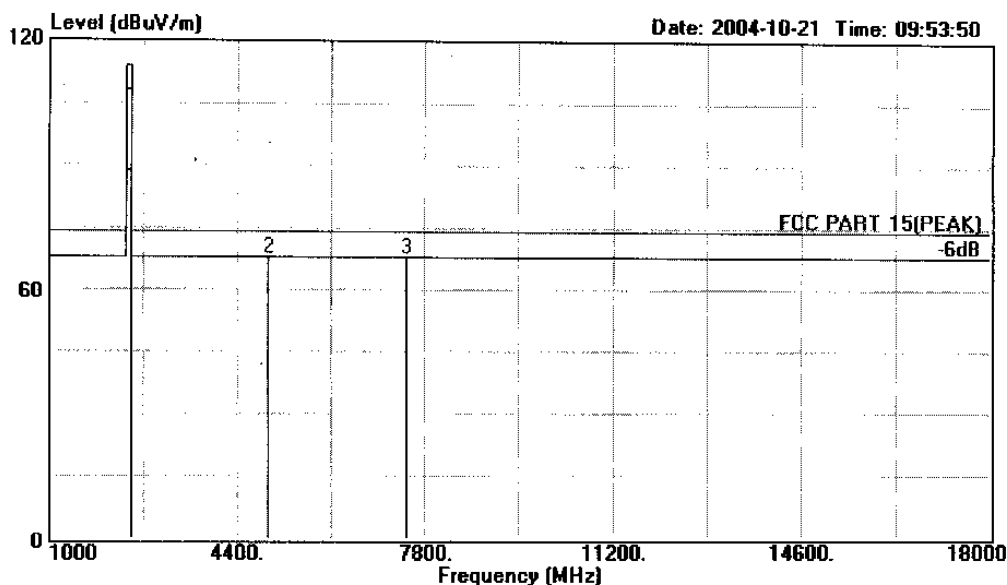


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Data#: 55 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2480.910	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

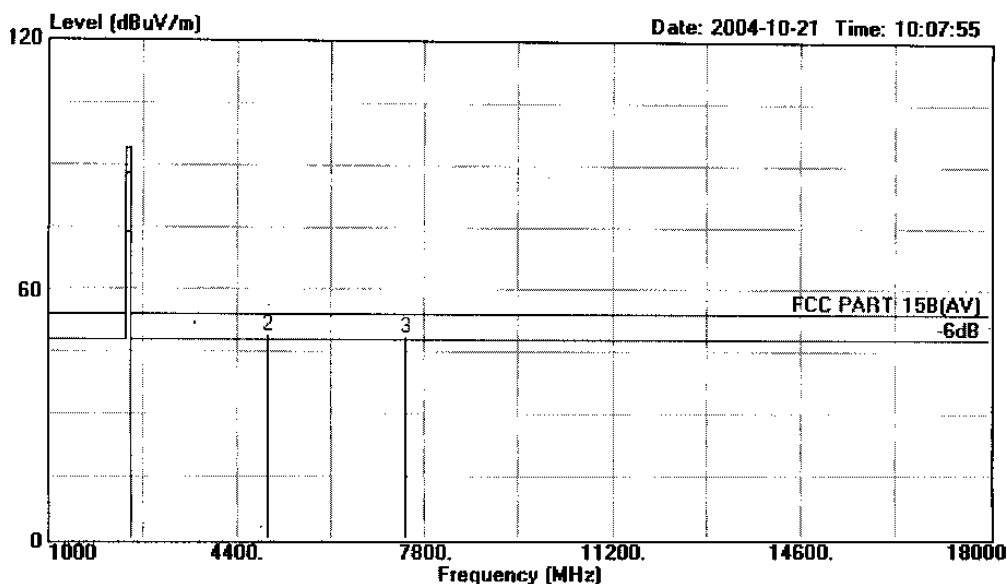


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Data#: 58 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2480.910	69.60	-24.40	94.00	36.50	29.19	3.91	Average
2	4961.820	49.12	-4.88	54.00	9.90	34.29	4.93	Average
3	7442.730	48.76	-5.24	54.00	3.80	37.72	7.24	Average

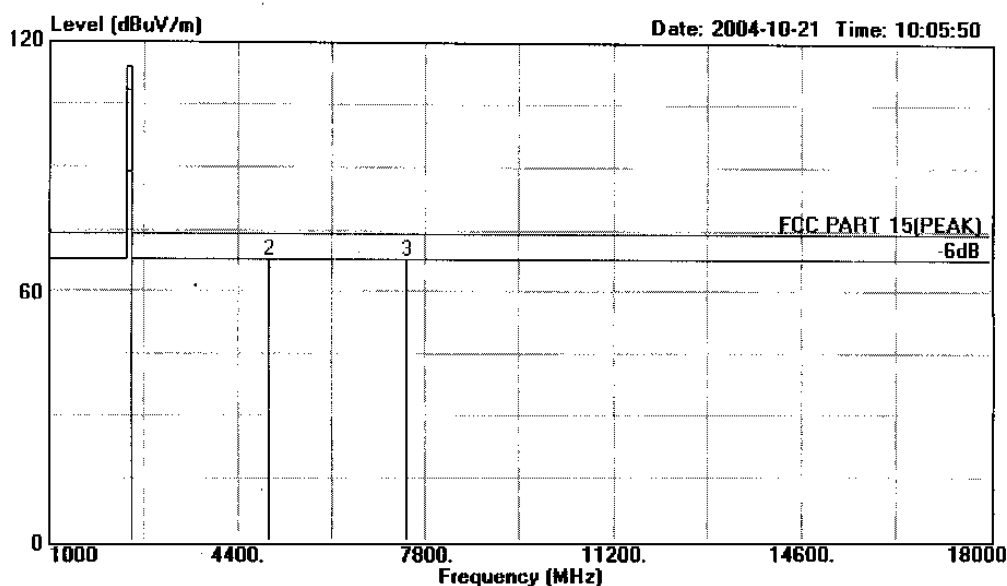


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Data#: 57 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 311S FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	2480.910	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: PS2 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 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.

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.

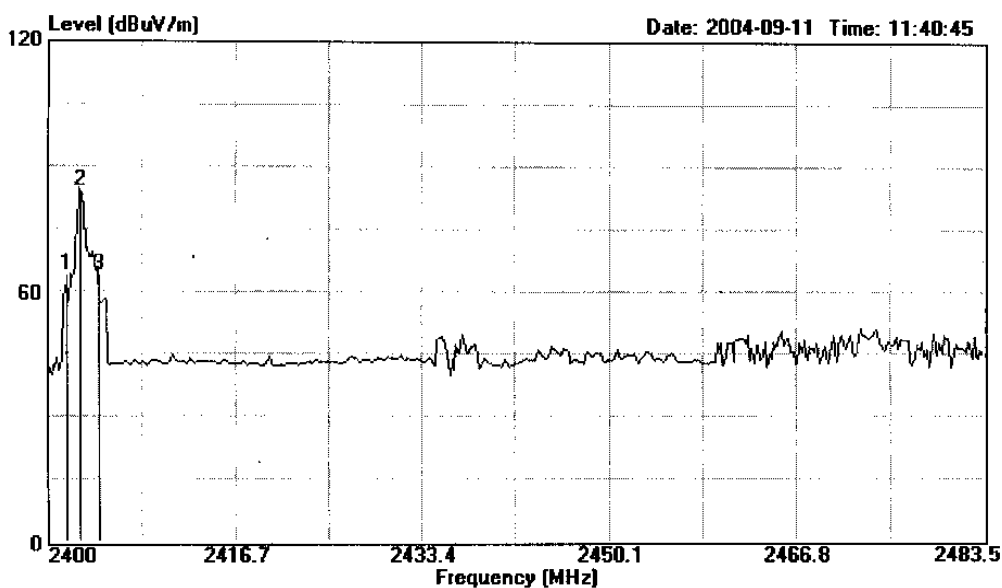


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Data#: 63 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	-----	-----	35.37	29.01	0.00	Peak
2	2402.840	84.38	-----	-----	55.35	29.03	0.00	Peak
3	2404.600	64.38	-----	-----	35.35	29.03	0.00	Peak

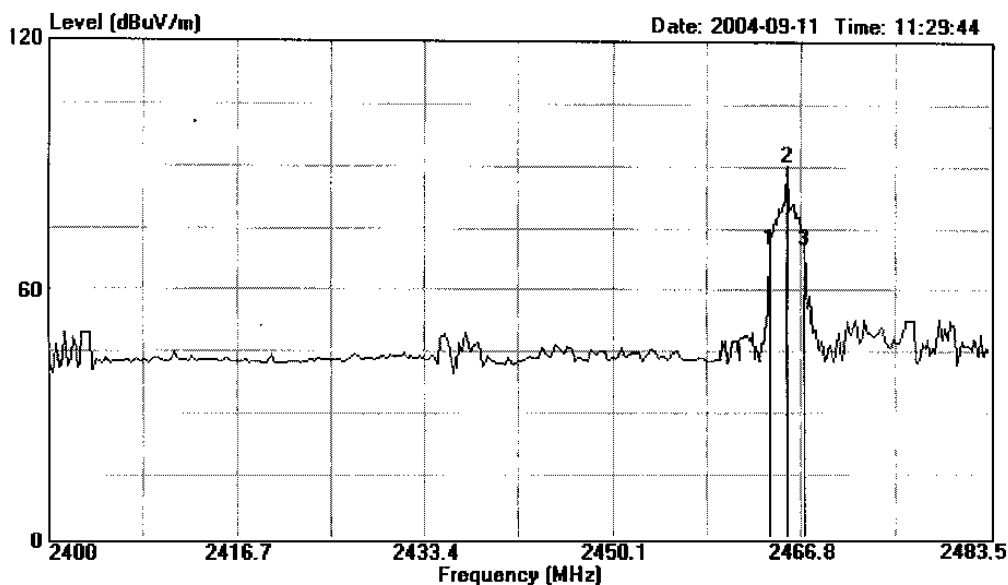


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Data#: 62 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : 20dB Bandwidth: 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	70.24	-----	-----	41.07	29.17	0.00	Peak
2	2465.650	90.24	-----	-----	61.06	29.18	0.00	Peak
3	2467.150	70.24	-----	-----	41.06	29.18	0.00	Peak

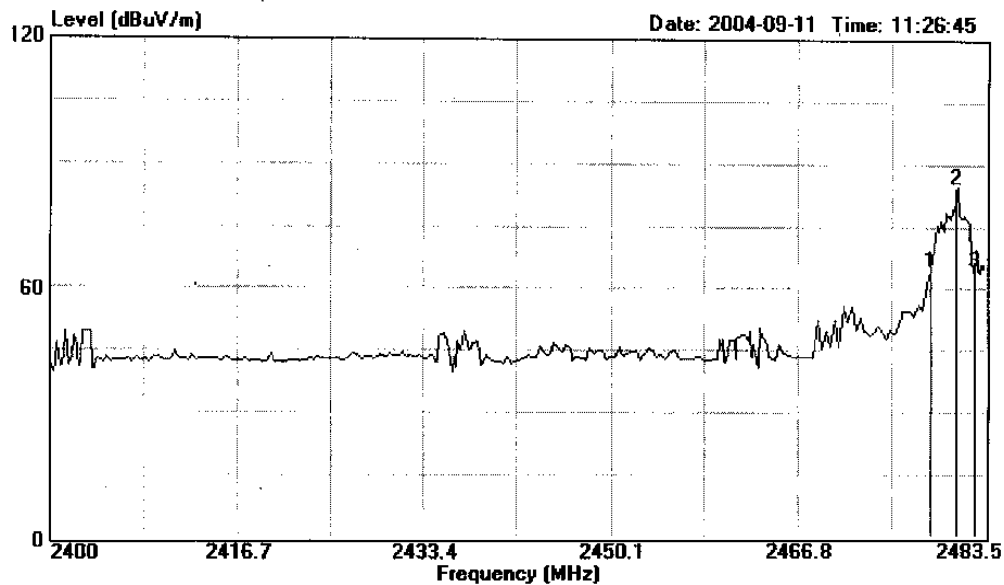


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Data#: 61 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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	-----	-----	35.39	29.21	0.00	Peak
2	2480.910	84.60	-----	-----	55.39	29.21	0.00	Peak
3	2482.600	64.60	-----	-----	35.38	29.22	0.00	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: PS2 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 software, let EUT working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on an 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 band edge.

5.6. Test Results

PASSED.

The testing data was attached in the next pages.

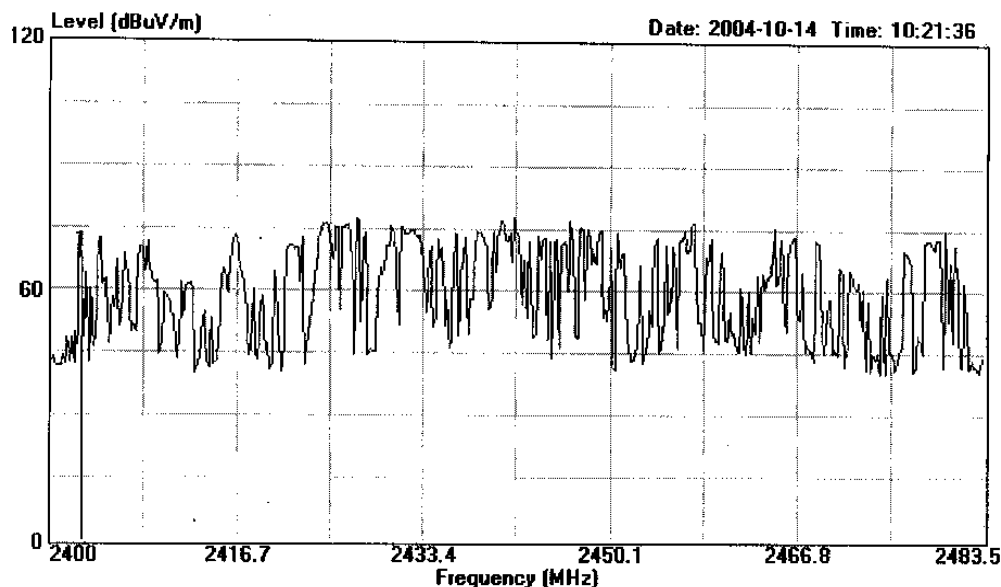


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Data#: 59 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Band Edge Plots:Channel 1
Test Engineer : Saco
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	69.31	-----	-----	69.31	0.00	0.00	Peak

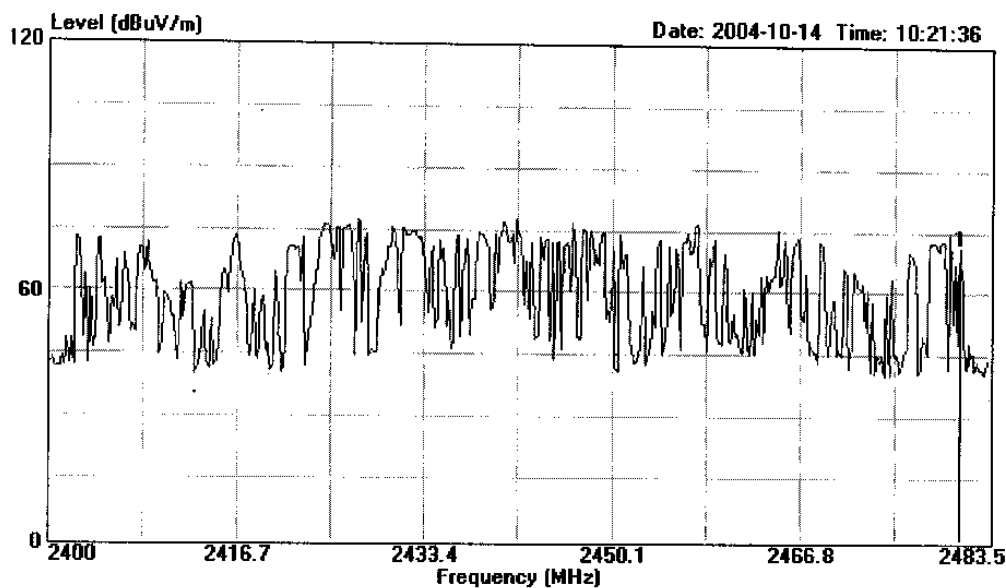


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Data#: 60 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Band Edge Plots:Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

Freq	Level	Over Limit		Read Level	Probe Factor	Cable Loss	Remark
		Limit	Line				
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1 2480.910	71.26	-----	-----	71.26	0.00	0.00	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: PS2 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 :	Sep.25, 2004	Temperature :	23°C
EUT :	PS2 2.4G RF Wireless Controller (Transmit + Receiver)	Humidity :	58%
Model No. :	HP5139 (Controller)	Test Mode :	Channel 40
Test Engineer:	Seco		

Frequency	Reading dBm	Cable Loss dB	Peak Power dBm	Limit dBm
2465.650MHz	-16.76	0.2	-16.56	30.00

Reviewer :

Cabe 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: PS2 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 software, 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. CH39 is 2466.57MHz.
CH38 is 2465.61MHz

Channel Carrier Frequency Separated = 2466.57MHz – 2465.61MHz
= 0.96MHz



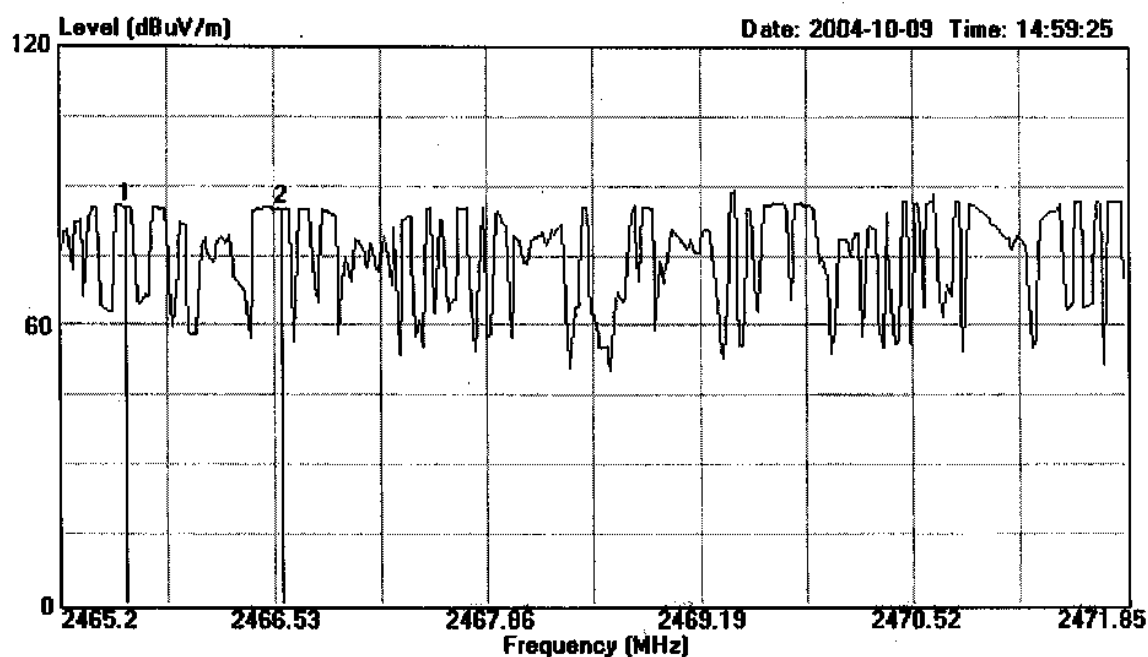
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Data#: 35

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



Site : 1# Chamber
Condition : 3m
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HPS139 (controller)
Power : Battery DC6V
Test Mode :
Test Engineer : Saco
Memo : Temp:24°C Humi:54%

	Freq	Level	Over	Limit	Read	
	MHz	dBuV/m	Limit	Line	Level	Remark
			dB	dBuV/m	dBuV	
1	2465.610	85.69	-----	-----	85.69	Peak
2	2466.570	85.25	-----	-----	85.25	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: PS2 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

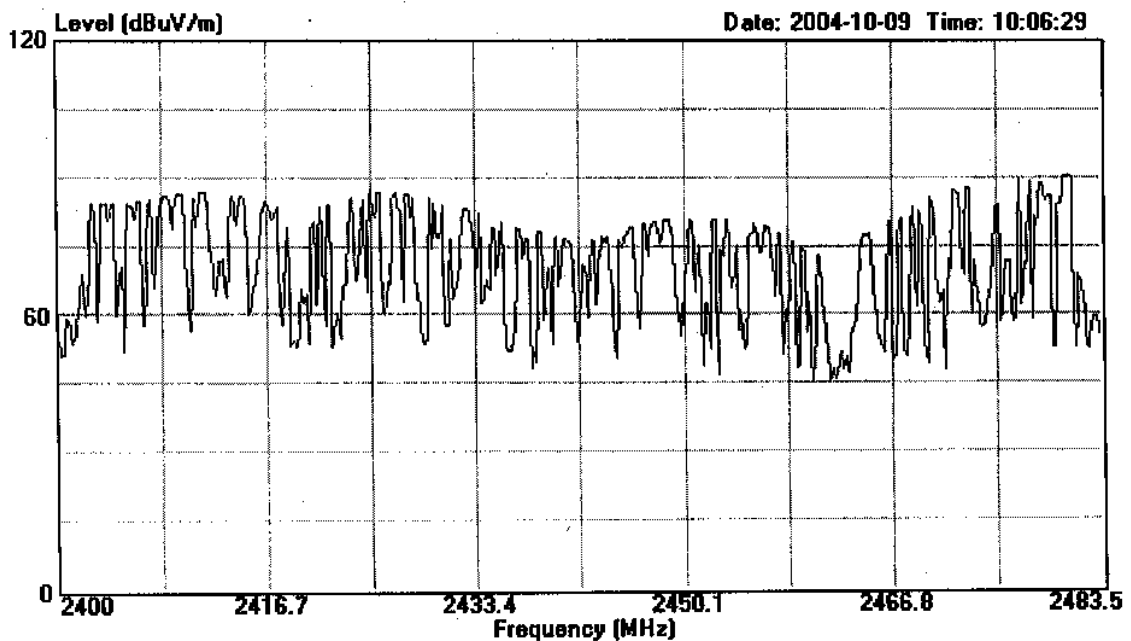
PASSED.

The testing data was attached in the next pages.

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Data#: 17 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (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: PS2 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

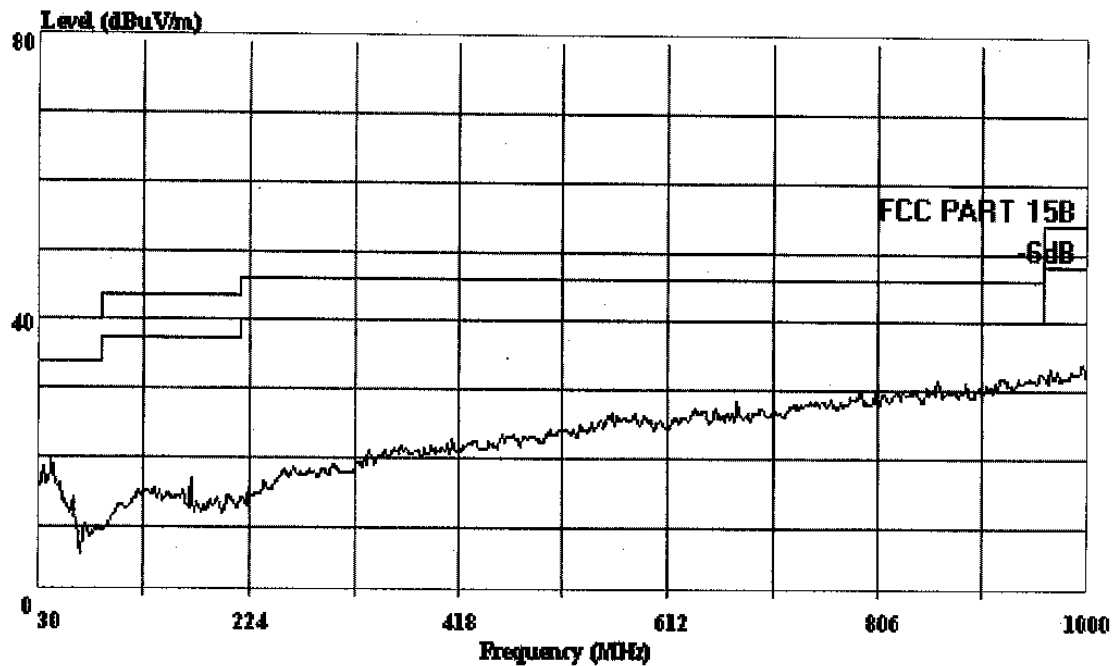
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 2

File#: E-core.emi

Date: 2004-10-11 Time: 09:16:55



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 : HP5139 (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

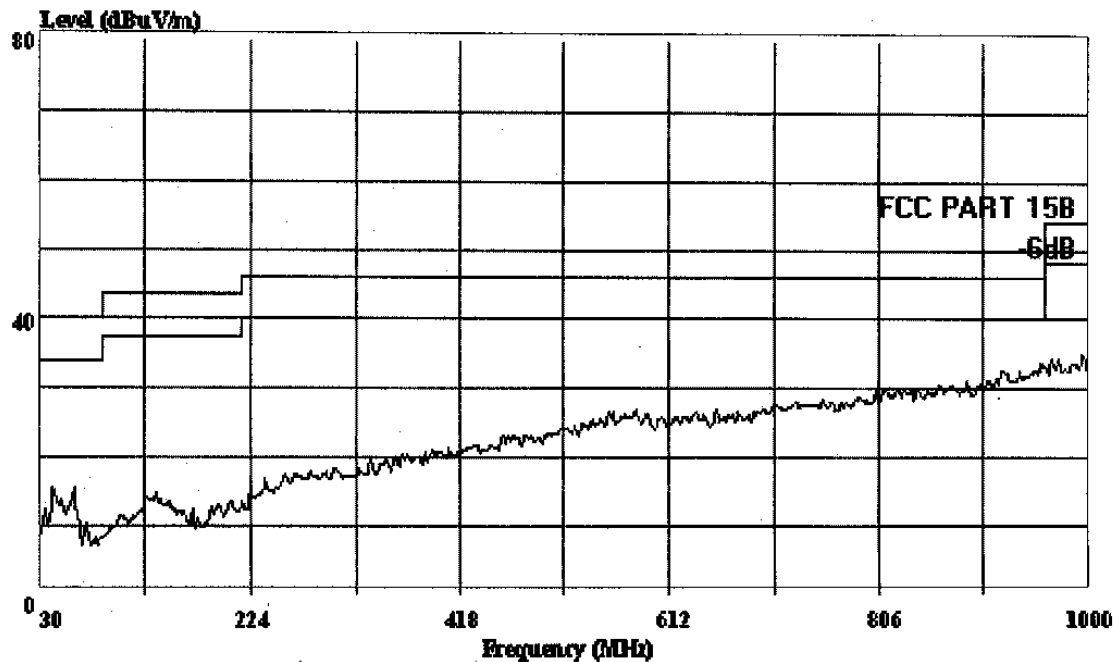
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 1

File#: E-core.emi

Date: 2004-10-11 Time: 09:16:49



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 : HP5139 (controller)

Power : Battery DC6V

Test Mode: Channel 1

Engineer : Seco

Memo : Temp:24'C Humi:54%



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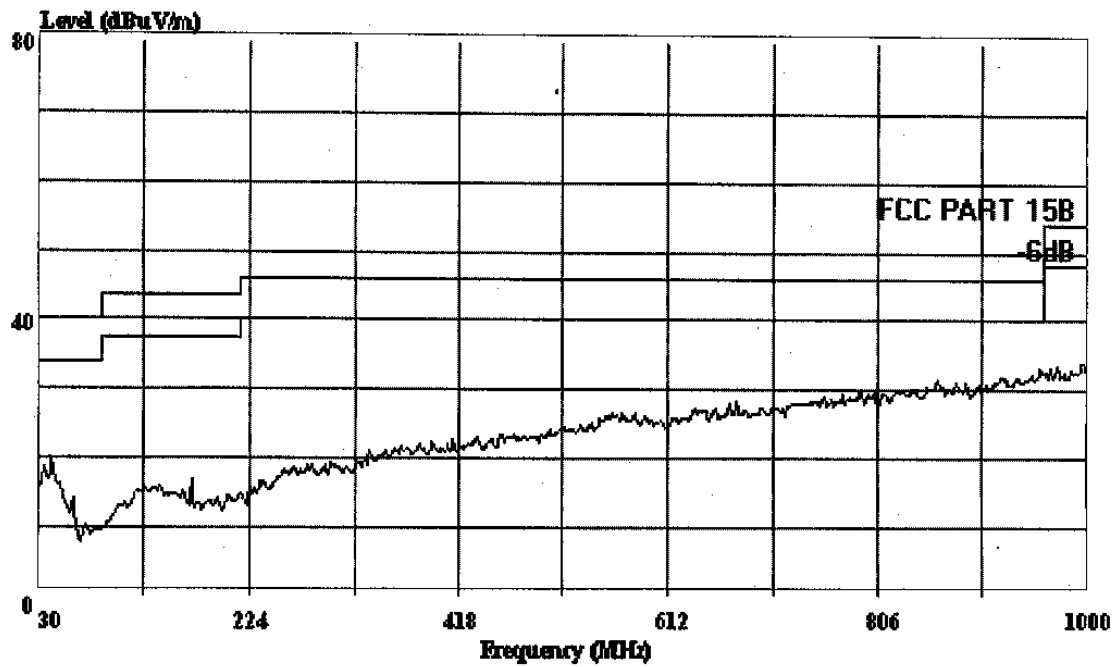
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 3

File#: E-core.emi

Date: 2004-10-11 Time: 09:17:13



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 : HP5139 (controller)

Power : Batterv DC6V

Test Mode: Channel 40

Engineer : Seco

Memo : Temp:24'C Humi:54%



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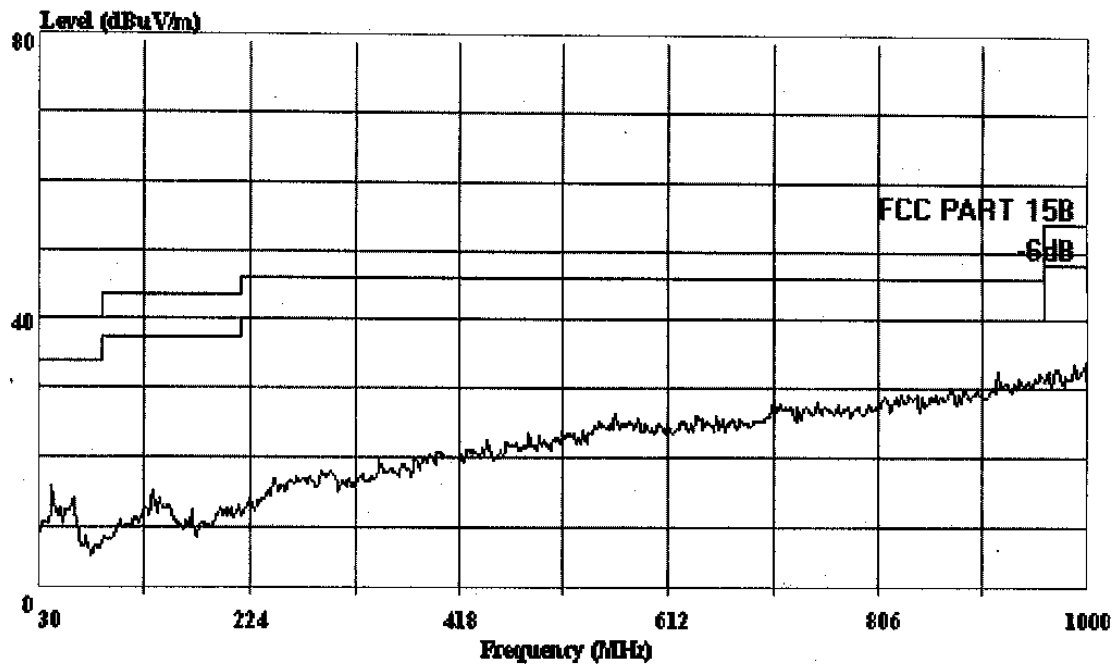
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 4

File#: E-core.emi

Date: 2004-10-11 Time: 09:17:33



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 : HP5139 (controller)

Power : Batterv DC6V

Test Mode: Channel 40

Engineer : Seco

Memo : Temp:24'C Humi:54%



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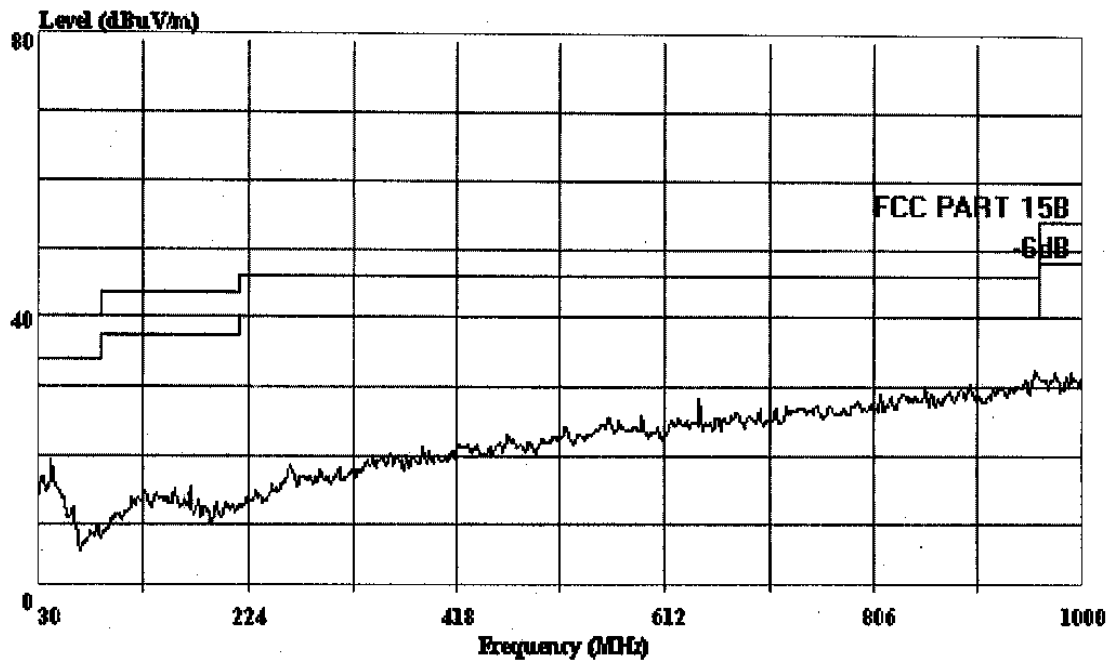
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 7

File#: E-core.emi

Date: 2004-10-11 Time: 09:20:48



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 : HP5139 (controller)

Power : Battery DC6V

Test Mode: Channel 79

Engineer : Seco

Memo : Temp:24'C Humi:54%



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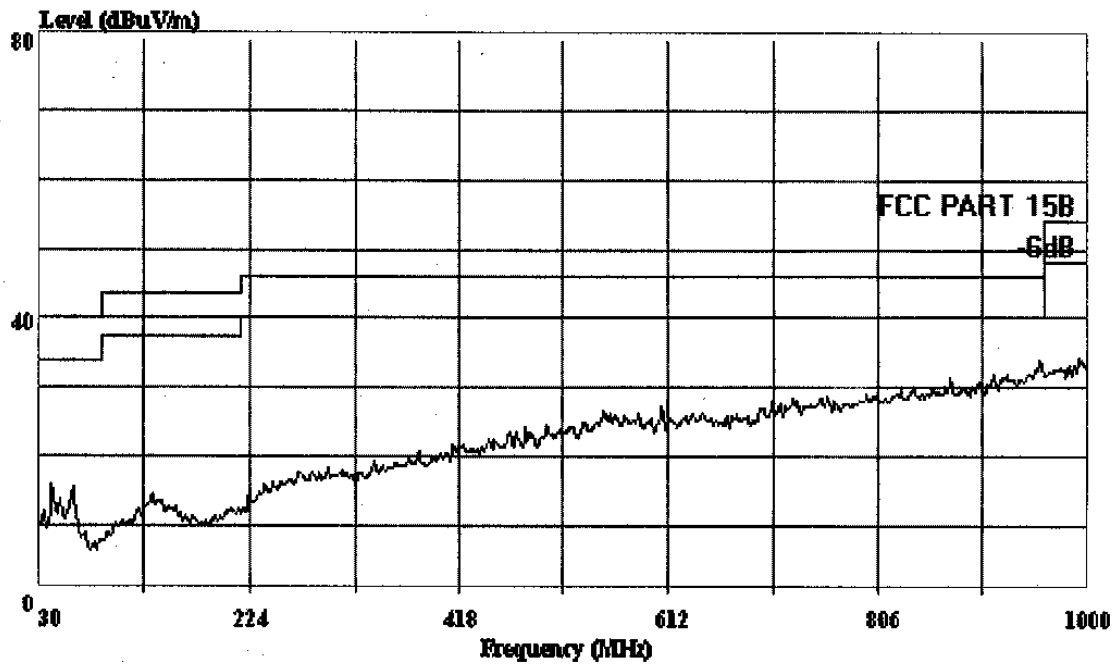
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 5

File#: E-core.emi

Date: 2004-10-11 Time: 09:18:11



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 : HP5139 (controller)

Power : Batterv DC6V

Test Mode: Channel 79

Engineer : Seco

Memo : Temp:24'C Humi:54%

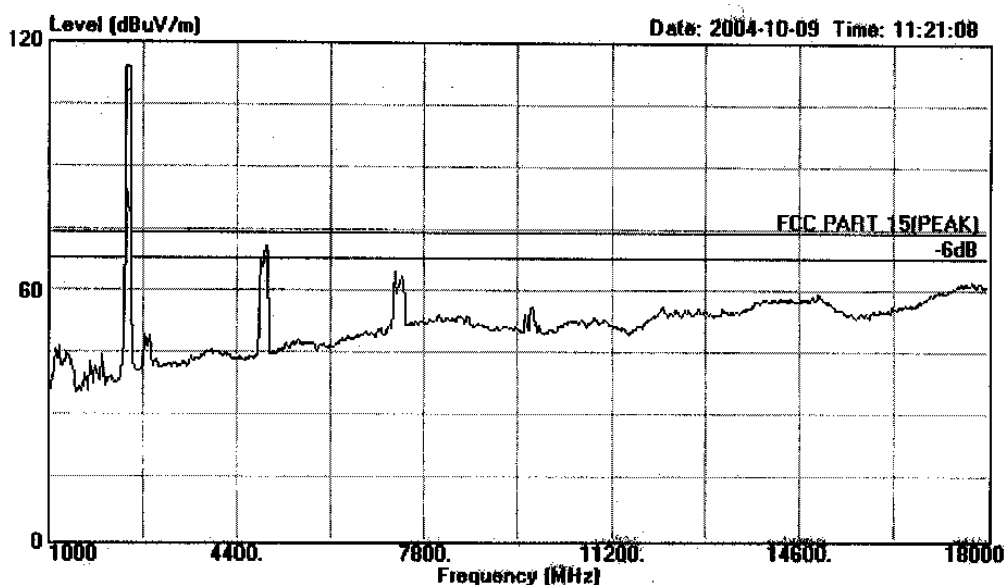


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Data#: 19 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

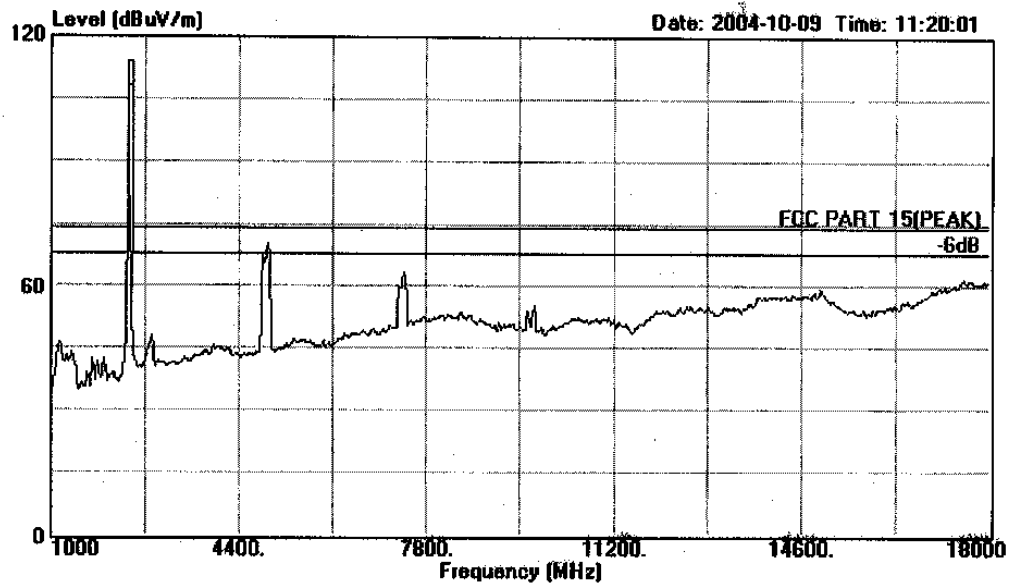


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Data#: 18 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

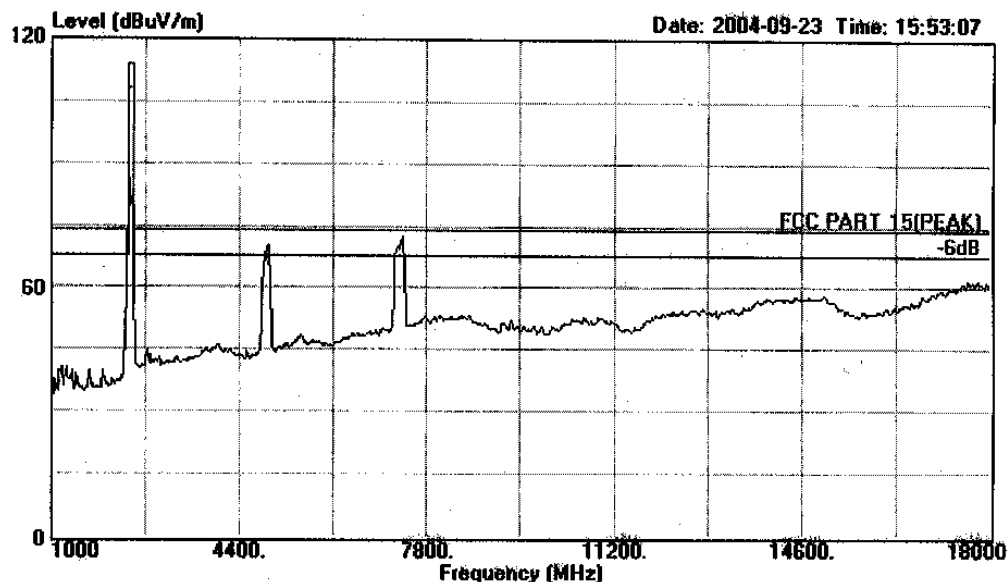


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Data#: 4 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

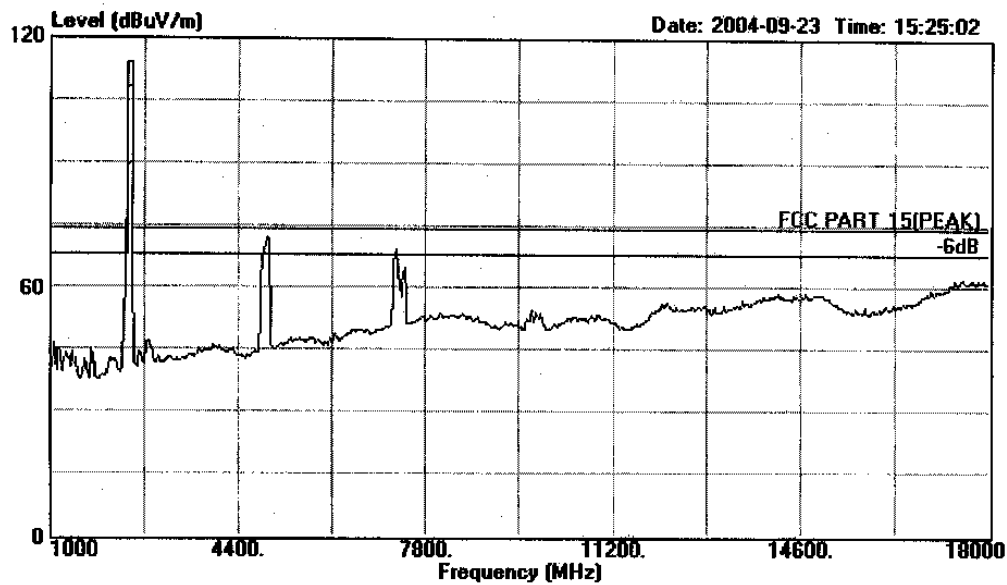


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Data#: 1 File#: C:\ENI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

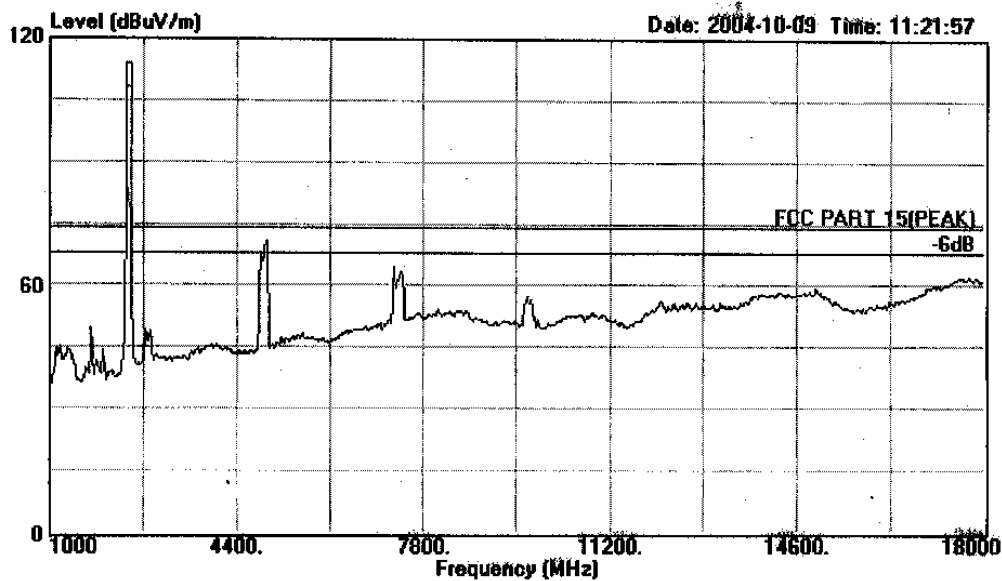


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Data#: 20 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

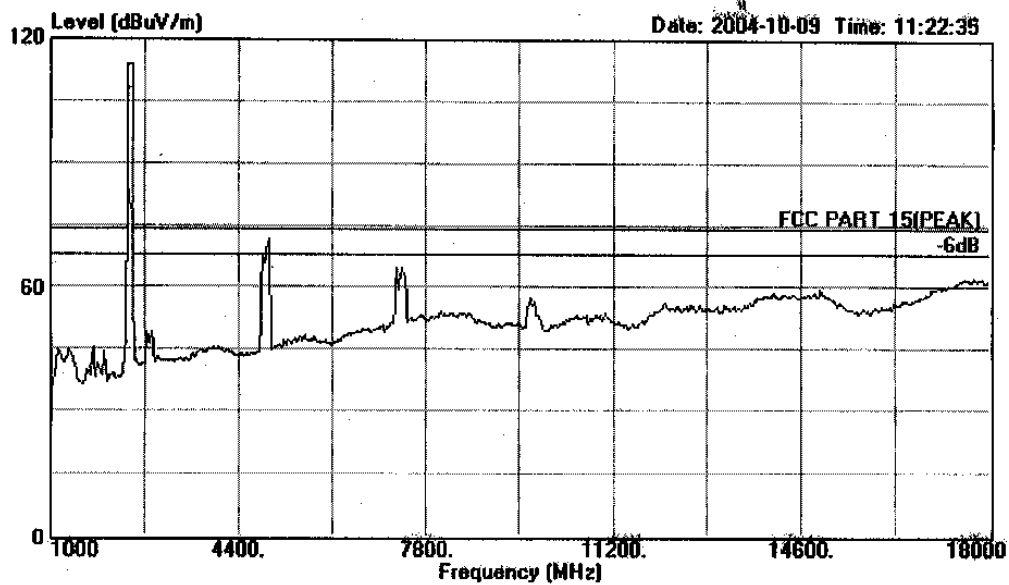


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Data#: 21 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR R VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

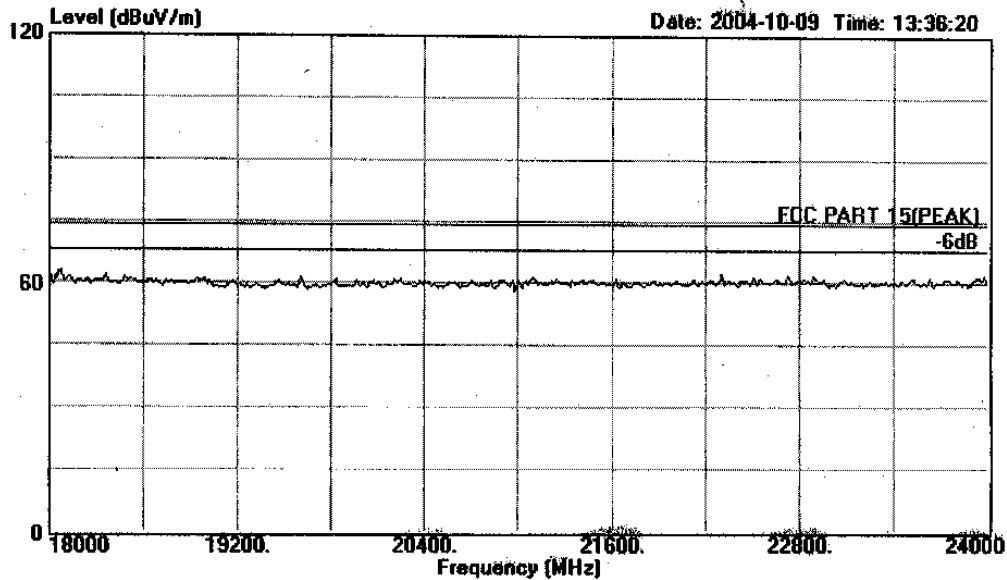


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Data#: 27 File#: C:\ENI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

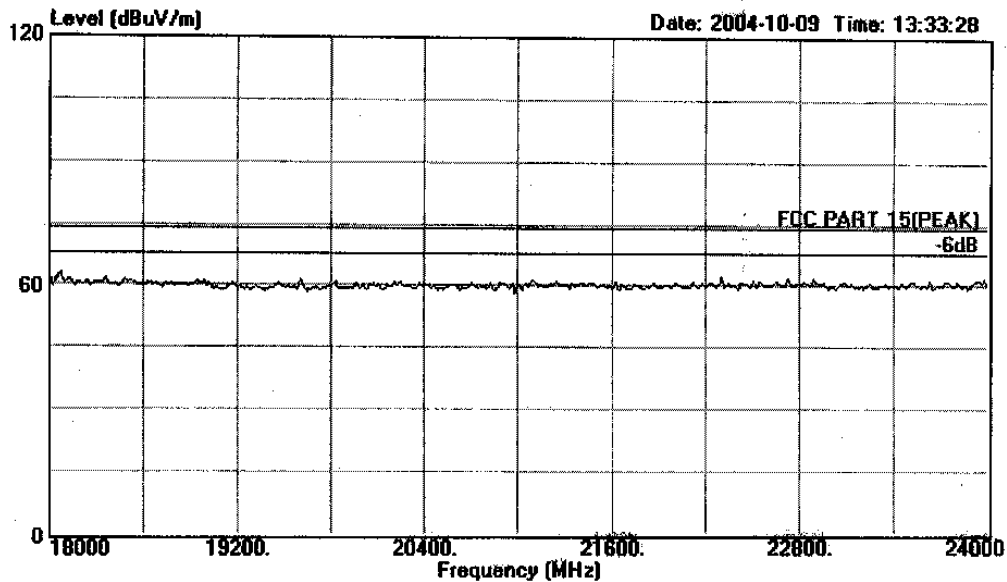


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Data#: 26 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 1
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

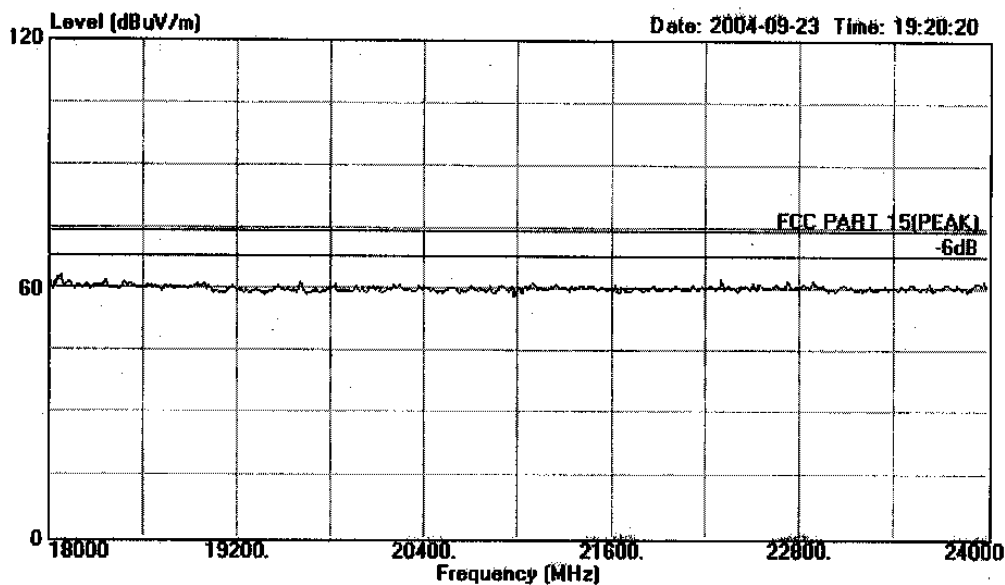


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Data#: 15 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

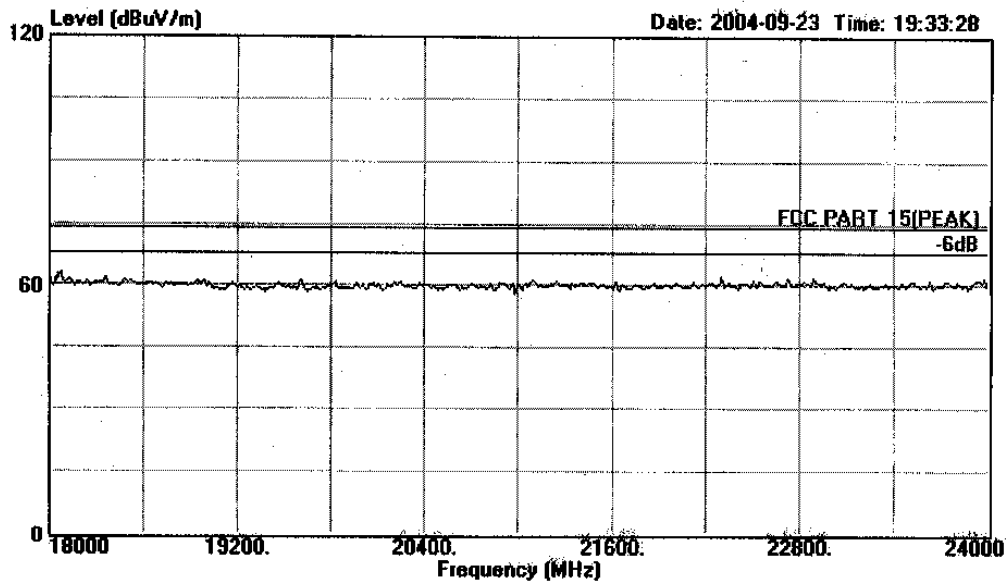


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Data#: 16 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 40
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

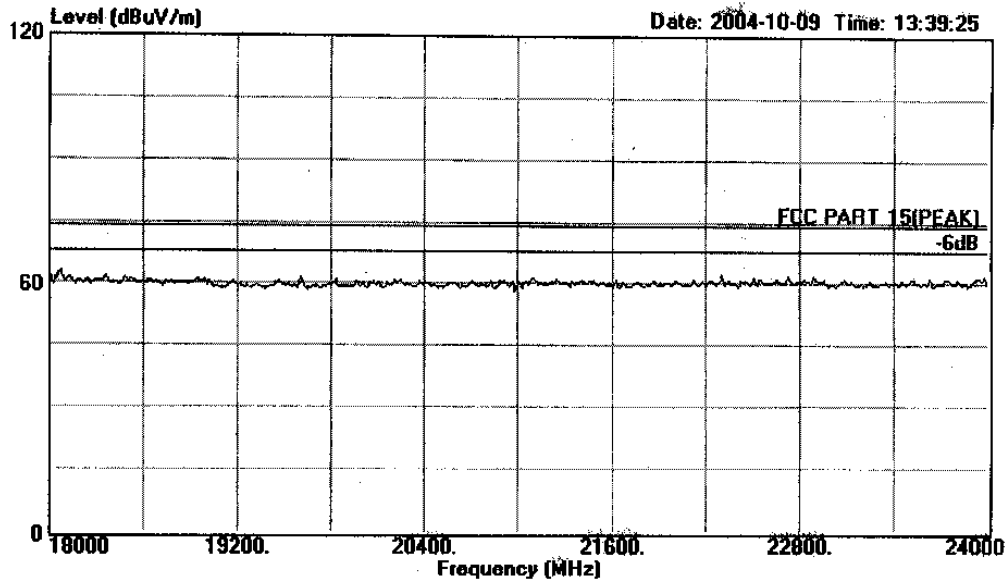


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Data#: 28 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Seco
Memo : Temp:24'C Humi:54%

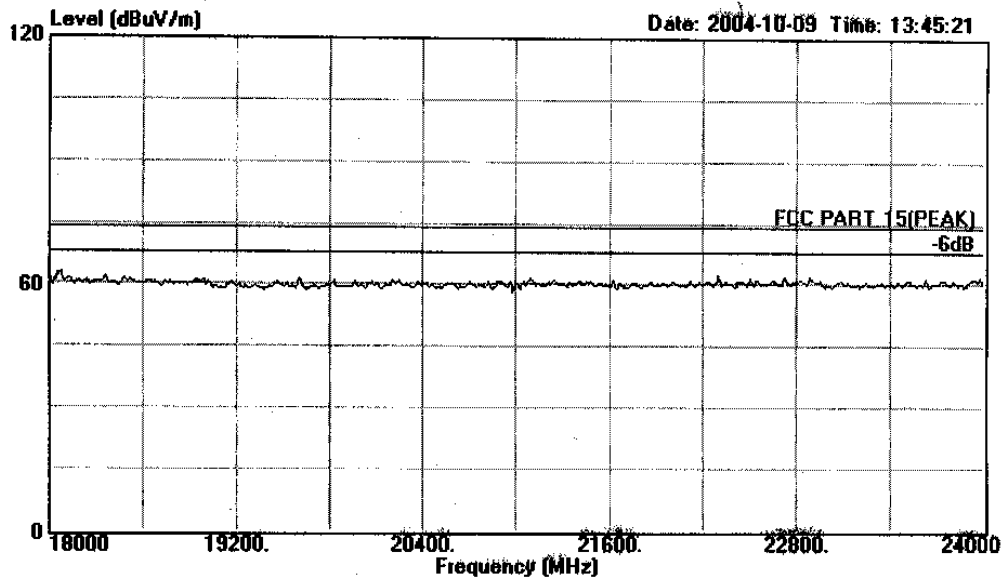


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Data#: 29 File#: C:\EMI TEST DATA\E\E-core.emi



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : PS2 2.4G RF wireless controller
 : (transmit+receiver)
M/N : HP5139 (controller)
Power : Battery DC6V
Test Mode : Channel 79
Test Engineer : Saco
Memo : Temp:24'C Humi:54%