# APPLICATION FOR CERTIFICATION On Behalf of

Vision Electronics Co., Ltd.

PS2 2.4G RF Wireless Controller

Model Number: 2404/G7090

Prepared for: Vision Electronics Co., Ltd.

11F-6, No.400 Huan Pei Rd., Chung Li City,

Tai Wan, R.O.C.

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Report Number : ACS-F03114

Date of Test : Apr. 21~23, 2003

Date of Report : Jun. 03, 2003

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APPENDIX I (5 pages) APPENDIX II (13 pages)

# TEST REPORT DECLARATION

Vision Electronics Co., Ltd.

Vision Electronics Co., Ltd.

Applicant

Manufacturer

:

EUT Description : PS2 2.4G R	RF Wireless Controller
(A) MODEL NO. : 24	404/G7090
(B) SERIAL NO. : F2	2003060301
(C) POWER SUPPLY: 24	104: DC 6V 7090: DC 3V
Test Procedure Used:	
FCC Rules and Regulations Part 15 S	ubpart C Aug 2002.
to determine the maximum emission I emission levels are compared to the F conducted emissions.  The test results are contained in this to CO., LTD. is assumed full responsibil these tests. Also, this report shows to technically compliant with the FCC rearrangement applies to above tested sare without written approval of AUDIX To This report must not be used by the approximation of the province o	by AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. evels emanating from the device. The maximum CC Part 15 Subpart C limits both radiated and est report and AUDIX TECHNOLOGY (SHENZHEN) ity for the accuracy and completeness of hat the Equipment Under Test (EUT) is to be equirements.  Inple only. This report shall not be reproduced in part TECHNOLOGY (SHENZHEN) CO., LTD.  Inplicant to claim product endorsement by NVLAP or
any agency of the U.S. Government.  Date of Test:	Ann 21 22 2002
Date of Test.	Apr.21~23, 2003
Prepared by :	Jane Dai / Assistant  (The Wang
Reviewer:	Lake Wang / Su <b>t∉</b> rvisor
	For and on behalf of AUDIX TECHNOLOGY (SHENZHEN) CO.,LTD.
Approved & Authorized Signer:	Alex Deng A44/self-sech 6/syletung(s)
Name of the Representative of the Re	sponsible Party :
Signature:	

#### 1. GENERAL INFORMATION

1.1.Description of Device (EUT)

Description : PS2 2.4G RF Wireless Controller

(Note: The receiver and EUT are separate, and the

receivers are not part of this application for

certification.)

Modulation Technique : DSSS

Range With -5dBi antenna :  $>10m (\sim 33ft)$  indoor

Model Number : 2404/G7090

(Between the two model 2404 & G7090 the electric circuit are same just the layout and appearance are

different.)

Applicant : Vision Electronics Co., Ltd.

11F-6, No.400 Huan Pei Rd., Chung Li City,

Tai Wan, R.O.C.

Manufacturer : Vision Electronics Co., Ltd.

11F-6, No.400 Huan Pei Rd., Chung Li City,

Tai Wan, R.O.C.

Date of Test : Apr. 21~23, 2003

# 1.2. Tested Supporting System Details

Play Station 2 : Manufacturer: SONY

M/N: SCPH-30001 S/N: U1567971

Data Cable: Shielded, Detachable, 1.8m Power Cord: Unshielded, Detachable, 1.5m

Receiver : Manufacturer: Vision

M/N: 2474/2476

# 1.3.Test Facility

Site Description

3m Anechoic Chamber : Certificated by FCC, USA

Aug. 24, 2000

EMC Lab. Certificated by DATech, German

Feb. 02, 1999

Certificated by NVLAP, USA NVLAP Code: 200372-0

Mar. 31, 2003

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.

Site Location : No. 6, Ke Feng Rd., 52 Block,

Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

### 1.4.Test Uncertainty

Conducted Emission Uncertainty =  $\pm 2.66$ dB

Radiated Emission Uncertainty =  $\pm 4.26$ dB

### 2. POWER LINE CONDUCTED EMISSION TEST

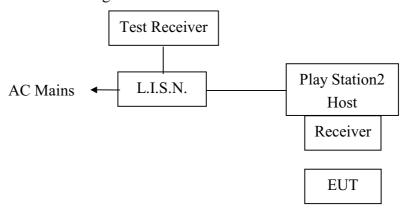
### 2.1.Test Equipment

The following test equipments are used during the power line conducted emission test:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
						Interval
1.	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	Jun. 02, 02	1 Year
2.	L.I.S.N. #1	Kyoritsu	KNW-407	8-541-4	Jun. 02, 02	1 Year
3.	L.I.S.N. #2	R&S	ESH2-Z5	834066/011	Jun. 02, 02	1 Year
4.	Terminator	EMCO	50Ω	No. 1	Jun. 02, 02	1 Year
5.	Terminator	EMCO	50Ω	No. 2	Jun. 02, 02	1 Year
6.	RF Cable	FUJIKURA	RG-55/U	LISN Cable	Feb. 22, 03	1/2 Year
7.	Coaxial Switch	Anritsu	MP59B	M74389	Nov. 30, 02	1/2 Year
8	PC	N/A	586ATXS	N/A	N/A	N/A
9	Printer	HP	Laserjet2100	SGGJ092351	N/A	N/A

# 2.2.Block Diagram of Test Setup

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



(EUT: PS2 2.4G RF Wireless Controller)

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

	Maximum RF Line Voltage			
Frequency	Quasi-Peak Level	Average Level		
	dB(µV)	$dB(\mu V)$		
150KHz ~ 500KHz	66 ~ 56*	56 ~ 46*		
500KHz ~ 5MHz	56	46		
$5MHz \sim 30MHz$	60	50		

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

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

### 2.4. Configuration of EUT on Test

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

2.4.1.PS2 2.4G RF Wireless Controller (EUT)

Model Number : 2404/G7090 Serial Number : F2003060301

Manufacturer : Vision Electronics Co., Ltd.

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

### 2.5. Operating Condition of EUT

- 2.5.1. Setup the EUT and simulator as shown as Section 2.2.
- 2.5.2. Turn on the power of all equipment.
- 2.5.3.Let the EUT work in test mode (Running) and test it.

#### 2.6.Test Procedure

The play station2 is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50 ohm coupling impedance for the play station2. Please refer the block diagram of the test setup and photographs. 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. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.4-1992 on Conducted Emission Test.

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

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

The test result are reported on Section 2.7., all the scanning waveforms for Conducted Emission Test are attached in Appendix I.

# 2.7.Power Line Conducted Emission Test Results **PASS.**

The frequency range from 150KHz to 30 MHz is investigated. All emissions not reported below are too low against the prescribed limits.

Date of Test : Apr. 22, 2003 Temperature : 24.6°C

EUT : PS2 2.4G RF Wireless Humidity : 54%

Controller

Model No. : Controller: 2404, Test Mode : Running

Receiver: 2474

Test Engineer: Sean Xing

Frequency		Reading	Limit					
1	V	A	VI	VB		(dBµV)		
(MHz)	Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average		
0.154	*	*	57.79	51.19	65.78	55.78		
0.156	57.14	51.44	*	*	65.69	55.69		
0.184	*	*	41.66	34.26	64.28	54.28		
0.189	42.14	37.54	*	*	64.06	54.06		
0.323	38.77	33.17	*	*	59.62	49.62		
0.327	*	*	39.27	31.47	59.53	49.53		
0.339	*	*	38.96	33.16	59.22	49.22		
0.476	*	*	29.32	24.32	56.41	46.41		
0.486	29.30	23.60	*	*	56.23	46.23		
1.262	25.36	20.15	*	*	56.00	46.00		
2.622	23.64	15.64	*	*	56.00	46.00		
4.269	*	*	22.95	17.65	56.00	46.00		

<sup>&</sup>quot;\*" As the QP value is too low against AV limit, So AV Value had been omitted.

Reviewer: Lake Wang

Date of Test : Apr. 22, 2003 Temperature :  $24.6^{\circ}$ C

EUT : PS2 2.4G RF Wireless Humidity : 54%

Controller

Model No. : Controller: G7090, Test Mode : Running

Receiver: 2476

Test Engineer: Sean Xing

Frequency		Reading	Limit					
1	V.	A	VI	VB		(dBµV)		
(MHz)	Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average		
0.157	*	*	60.46	52.46	65.62	55.62		
0.161	55.29	51.99	*	*	65.41	55.41		
0.317	*	*	40.17	32.47	59.79	49.79		
0.342	41.06	33.16	*	*	59.15	49.15		
0.466	32.20	25.30	33.32	26.12	56.58	46.48		
0.835	*	*	33.07	26.47	56.00	46.00		
1.800	*	*	40.14	35.74	56.00	46.00		
1.832	31.24	23.54	*	*	56.00	46.00		
3.350	32.45	26.05	*	*	56.00	46.00		
3.881	*	*	29.95	21.85	56.00	46.00		
3.920	32.64	26.94	*	*	56.00	46.00		

"\*" As the QP value is too low against AV limit, So AV Value had been omitted.

Reviewer: Lake Wang

# 3. RADIATED EMISSION TEST

# 3.1.Test Equipment

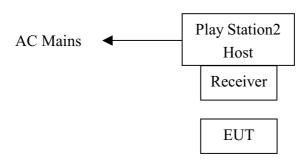
The following test equipments are used during the radiated emission test:

#### 3.1.1.For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal.
						Interval
1.	EMI Spectrum	HP	85422E	3625A00181	Jun. 02, 02	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	Jun. 02, 02	1 Year
3.	Amplifier	HP	8447D	2944A07794	Mar.19, 03	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Jan. 14, 03	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	Feb. 03, 03	1/2 Year
8.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Feb. 03, 03	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Feb. 03, 03	1/2 Year
10.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Feb. 03, 03	1/2 Year
11.	Coaxial Switch	Anritsu	MP59B	M73989	Nov. 30, 02	1/2 Year
12.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
13.	Amp	HP	8449B	3008A00863	Jun.02, 02	1 Year
14.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year

# 3.2.Block Diagram of Test Setup

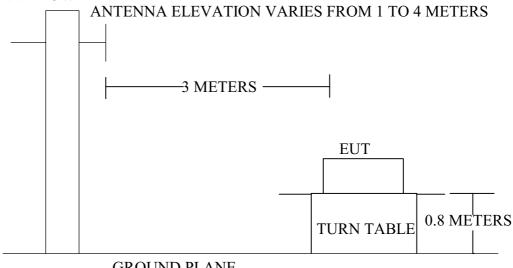
### 3.2.1.Block diagram of connection between the EUT and simulators



(EUT: PS2 2.4G RF Wireless Controller)

#### 3.2.2.In Anechoic Chamber

#### ANTENNA TOWER



**GROUND PLANE** 

#### 3.3. Radiated Emission Limit

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

Remark: (1) Emission level (dB) $\mu$ V = 20 log Emission level  $\mu$ 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 (EUT)

2404/G7090 Model Number Serial Number F2003060301

Manufacturer Vision Electronics Co., Ltd.

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

### 3.5. Operating Condition of EUT

- 1. Setup the EUT as shown in Section 3.2..
- 2. Let the EUT work in test mode (Running) 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 (Running) is tested in Anechoic Chamber, and all the scanning waveforms are attached in Appendix II.

#### 3.7. Radiated Emission Test Result

#### PASS.

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

Date of Test:	Apr. 23, 2003	Temperature	:	23°C
EUT :	PS2 2.4G RF Wireless Controller	Humidity	:	58%
Model No. :	Controller: 2404,	Test Mode	:	Running
	Receiver: 2474			
Test Engineer	Sean Xing			

Frequency	Antenna	Cable	Meter Reading	<b>Emission Level</b>	Over	Limits
	Factor	Loss	Horizontal	Horizontal	Limits	
MHz	dB/m	dB	dΒμV	$dB\mu V/m$	dB	$dB\mu V/m$
203.630	9.74	3.04	24.90	37.68	-5.82	43.50
295.780	13.19	3.76	22.80	39.75	-6.25	46.00
392.780	16.10	4.54	22.10	42.74	-3.26	46.00
589.690	18.84	6.14	15.10	40.08	-5.92	46.00
785.630	21.60	7.02	13.20	41.82	-4.18	46.00
884.570	22.12	7.42	9.70	39.23	-6.77	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 392.780MHz with corrected signal level of  $42.74dB\mu V/m$  (Limit is  $46.00~dB\mu V/m$ ) when the antenna was at horizontal polarization and at 1.8m high and the turn table was at 220  $^{\circ}$
- 4. 0  $\,^{\circ}$  was the table front facing the antenna. Degree is calculated from 0  $\,^{\circ}$  clockwise facing the antenna.

Reviewer: Cake Wang

Date of Test:	Apr. 23, 2003	Temperature	:	23°C
EUT :	PS2 2.4G RF Wireless Controller	Humidity	:	58%
Model No. :	Controller: 2404,	Test Mode	:	Running
	Receiver: 2474			
Test Engineer:	Sean Xing			

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
	Factor	Loss	Vertical	Vertical	Limits	
MHz	dB/m	dB	dΒμV	$dB\mu V/m$	dB	$dB\mu V/m$
111.480	11.79	2.06	22.00	35.85	-7.65	43.50
295.780	13.58	3.76	22.80	40.14	-5.86	46.00
480.080	18.13	5.35	15.80	39.28	-6.72	46.00
591.630	19.44	6.27	15.00	40.71	-5.29	46.00
737.130	21.58	6.74	13.20	41.52	-4.48	46.00
884.570	23.51	7.42	11.30	42.23	-3.77	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 884.570 MHz with corrected signal level of  $42.23 dB\mu V/m$  (Limit is  $46.00 dB\mu V/m$ ) when the antenna was at horizontal polarization and at 1.0m high and the turn table was at 190  $^{\circ}$
- 4. 0  $\,^{\circ}$  was the table front facing the antenna. Degree is calculated from 0  $\,^{\circ}$  clockwise facing the antenna.

Reviewer: Lake Wang

Date of Test:	Apr. 23, 2003	Temperature	:	23°C
EUT :	PS2 2.4G RF Wireless Controller	Humidity	:	58%
Model No. :	Controller: G7090,	Test Mode	:	Running
	Receiver: 2476			
Test Engineer:	Sean Xing			

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
	Factor	Loss	Horizontal	Horizontal	Limits	
MHz	dB/m	dB	dΒμV	$dB\mu V/m$	dB	$dB\mu V/m$
203.580	9.74	3.04	24.80	37.58	-5.92	43.50
295.720	13.19	3.76	23.80	40.75	-5.25	46.00
392.800	16.10	4.54	21.90	42.54	-3.46	46.00
589.740	18.84	6.14	15.20	40.18	-5.82	46.00
785.600	21.60	7.02	13.10	41.73	-4.27	46.00
884.550	22.12	7.42	9.70	39.23	-6.77	46.00

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

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

Reviewer: Cake Wang

Date of Test:	Apr. 23, 2003	Temperature	:	23°℃
EUT :	PS2 2.4G RF Wireless Controller	Humidity	:	58%
Model No. :	Controller: G7090,	Test Mode	:	Running
	Receiver: 2476			
Test Engineer	Sean Xing			

Frequency	Antenna	Cable	Meter Reading	<b>Emission Level</b>	Over	Limits
	Factor	Loss	Vertical	Vertical	Limits	
MHz	dB/m	dB	dΒμV	$dB\mu V/m$	dB	$dB\mu V/m$
111.475	11.79	2.06	46.00	35.30	-8.20	43.50
295.880	13.58	3.76	48.00	41.12	-4.88	46.00
480.110	18.13	5.35	42.10	39.74	-6.26	46.00
588.750	19.26	6.08	42.10	41.23	-4.77	46.00
808.950	21.45	6.91	39.10	41.25	-4.75	46.00
884.600	23.51	7.42	35.90	41.14	-4.86	46.00

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

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

Reviewer: Cake Wang

Date of Test:	Apr. 21, 2003	Temperature	:	23°℃
EUT :	PS2 2.4G RF Wireless Controller	Humidity	:	58%
Model No. :	Controller: 2404	Test Mode	:	Running
Test Engineer:	Sean Xing			

Frequency	Antenna	Preamp	Cable	Meter Reading	Emission	Over	Limits	Remark
MHz	Factor dB	Factor dB	Loss dB	Horizontal dBμV	Level Horizontal	Limits dB	dBμV/m	
					$dB\mu V/m$			
1180.000	23.88	35.52	3.36	63.59	55.31	-18.69	74.00	Peak
1179.500	23.88	35.52	3.36	54.03	45.75	-28.25	54.00	Average
2440.000	28.14	34.98	5.74	74.33	73.23	-	-	Peak
2440.000	28.14	34.98	5.74	64.40	63.30	-	-	Average
4883.000	33.08	34.46	8.01	48.85	55.48	-18.52	74.00	Peak
4883.000	33.08	34.46	8.01	35.30	41.93	-32.07	54.00	Average

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

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

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

Frequenc	Antenna	Preamp	Cable	Meter Reading	<b>Emission Level</b>	Over	Limits	Remark
У	Factor	Factor	Loss	Vertical	Vertical	Limits		
	dB	dB	dB	dΒμV	$dB\mu V/m$	dB	dBµV/m	
MHz				·	•		•	
1180.000	23.88	35.52	3.36	69.63	61.35	-12.65	74.00	Peak
1180.000	23.88	35.52	3.36	59.36	51.08	-22.92	54.00	Average
2440.000	28.14	34.98	5.74	67.80	66.70	-	-	Peak
2440.000	28.14	34.98	5.74	59.78	58.68	-	-	Average
4883.000	33.08	34.46	8.01	43.52	50.15	-23.85	74.00	Peak
4883.000	33.08	34.46	8.01	27.36	33.99	-40.01	54.00	Average

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

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

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

Reviewer: Lake Wang

Date of Test:	Apr. 22, 2003	Temperature	:	23°℃
EUT :	PS2 2.4G RF Wireless Controller	Humidity	:	58%
Model No. :	Controller: G7090	Test Mode	:	Running
Test Engineer	Sean Ying			

Frequency	Antenna	Preamp	Cable	Meter Reading	<b>Emission Level</b>	Over	Limits	Remark
	Factor	Factor	Loss	Horizontal	Horizontal	Limits		
MHz	dB	dB	dB	$dB\mu V$	$dB\mu V/m$	$dB\mu V/m \\$	$dB\mu V/m \\$	
1180.000	23.88	35.52	3.36	61.63	53.35	-20.65	74.00	Peak
1180.000	23.88	35.52	3.36	59.73	51.45	-22.55	54.00	Average
2440.000	28.14	34.98	5.74	72.30	71.20	-	-	Peak
2440.000	28.14	34.98	5.74	62.26	61.16	-	<b>-</b> .	Average

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

2. Emission Level = Antenna Factor + Cable Loss + Meter Reading- Preamp Factor 3. The bandwidth of the RBW is set at 1MHz and VBW is set at 1MHz.

Frequency	Antenna	Preamp	Cable	Meter Reading	<b>Emission Level</b>	Over	Limits	Remark
	Factor	Factor	Loss	Vertical	Vertical	Limits		
MHz	dB	dB	dB	dΒμV	$dB\mu V/m$	$dB\mu V/m \\$	$dB\mu V/m \\$	
1180.000	23.88	35.52	3.36	68.97	60.69	-13.31	74.00	Peak
1180.000	23.88	35.52	3.36	57.40	49.12	-24.88	54.00	Average
2440.000	28.14	34.98	5.74	72.13	71.03	-	-	Peak
2440.000	28.14	34.98	5.74	62.99	61.89	-	-	Average
4881.000	33.08	34.46	8.01	46.41	53.04	-20.96	74.00	Peak
4881.000	33.08	34.46	8.01	31.46	38.09	-35.91	54.00	Average

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

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

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

Reviewer: Lake Wang



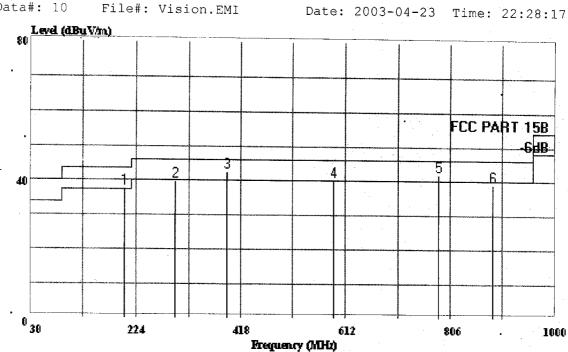
Data#: 10

Shenzhen Science & Ind. Park

Tel: 0755-26639495~7 Fax: 0755-26632877

(SHENZHEN) CO., LTD.

Date: 2003-04-23 Time: 22:28:17



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

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL : PS2 2.4G RF Wireless Controller : Controller: 2404. Receiver: 2474 M/N

Power : Host 120V/60Hz DC 6V

Test Engineer: Sean Xing

: Temp: 23' C, Humi: 58% Comment.

Memo : Runnina

: Frea: 392.780MHz

. .: Ant Pos: 1.8m, T-Table Pos: 220 degree

•	Frea	Level	Limit Line	Over Limit	Read Level	Probe Factor	Cable Loss	Page:	1
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	· dB		
1!	203.630 295.780	37.68 39.75	43.50 46.00	-5.82 -6.25	24.90	9.74	3.04		
3 ! 4 !	392.780 589.690	42.74	46.00	-3.26 -5.92		16.10 18.84	4.54 6.14		
5 ! 6	785.630 884.570	41.82 39.23	46.00 46.00	-4.18 -6.77	13.20 9.70	21.60 22.12	7.02 7.42		

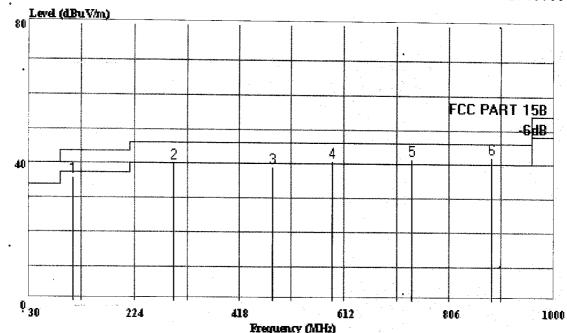


Shenzhen Science & Ind. Park

Tel: 0755-26639495~7 Fax: 0755-26632877

AUDIX IECHNOLOGY (SHENZHEN) CO., LTD.

Data#: 12 File#: Vision.EMI Date: 2003-04-23 Time: 22:45:08



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

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL EUT : PS2 2.4G RF Wireless Controller M/N : Controller: 2404. Receiver: 2474

Power : Host 120V/60Hz DC 6V

Test Engineer: Sean Xing

Comment : Temp: 23' C, Humi: 58%

Memo : Runnina

· : Frea: 884.557MHz

: Ant Pos: 1.0m, T-Table Pos: 190 degree

Page: 1 Limit Read Probe Cable Over Frea Level Line Limit Level Factor Loss MHz dBuV/m dBuV/m dВ dBuV dB dΒ 35.85 43.50 -7.65 22.00 11.79 2.06 111.480 2 ! 295.780 40.14 46.00 -5.86 22.80 13:58 3.76 15.80 39.28 46.00 -6.7218.13 3 480.080 5.35 -5.29 40.71 46.00 15.00 19.44 6.27 4! 591.630 737.130 41.52 46.00 -4.48 13.20 21.58 6.74 5 ! 6 ! 884.570 42.23 46.00 -3.77 11.30 23.51 7.42

Page: 1



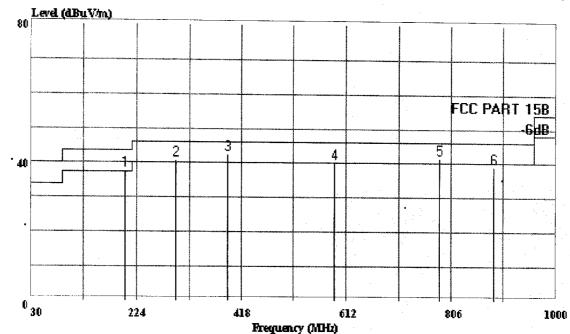
Shenzhen Science & Ind. Park Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 16

File#: Vision.EMI

Date: 2003-04-23 Time: 23:33:08



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

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL : PS2 2.4G RF Wireless Controller M/N: Controller: G7090. Receiver: 2476

Power : Host 120V/60Hz DC 3V

Test Engineer: Sean Xing

Comment : Temp: 23' C Humi: 58%

Memo : Running

		Frea	Level	Limit Line	Over Limit	Read Level	Probe Factor	Cable Loss	
		MHz	dBuV/m	dBuV/m	dВ	dBuV	dB	dB	
1 2	•	203.580 295.720	37.58 40.75	43.50 46.00	-5.92 -5.25	24.80 23.80	9.74 13.19	3.04 3.76	
3	ļ	392.800	42.54	46.00	-3.46	21.90	16.10	4.54	
4	!	589.740	40.18	46.00	-5.82	15.20	18.84	6.14	
5	ļ	785.600	41.73	46.00	-4.27	13.10	21.60	7.02	
6		994 550	39 23	46 00	-6 77	9 70	22 12	7 42	



Shenzhen Science & Ind. Park

Ref Trace:

Page: 1

Tel: 0755-26639495~7 Fax: 0755-26632877 .

(SHENZHEN) CO., LTD.

Data#: 14 File#: Vision.EMI Date: 2003-04-23 Time: 23:00:46 Level (dBuV/m) FCC PART 15B 2 4 ĥ 40 0.30 224 418 612 806 1000

Frequency (MHz) AUDIX TECHNOLOGY (SHENEHEN) CO., LTD. (3# Chamber)

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

Trace:

: PS2 2.4G RF Wireless Controller : Controller: G7090. Receiver: 2476

M/N Power

: Host 120V/60Hz DC 3V

Test Engineer: Sean Xing

Comment : Temp: 23' C, Humi: 28%

Memo

: Running

	Frea	Level	Limit Line	Over Limit		Probe Factor	Cable Loss
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB
1 2! 3 4! 5!	111.475 295.880 480.110 588.750 808.950 884.600	35.30 41.12 39.74 41.23 41.25 41.14	43.50 46.00 46.00 46.00 46.00 46.00	-8.20 -4.88 -6.26 -4.77 -4.75	46.00 48.00 42.10 42.10 39.10 35.90	11.79 13.58 18.13 19.26 21.45 23.51	2.06 3.76 5.35 6.08 6.91 7.42

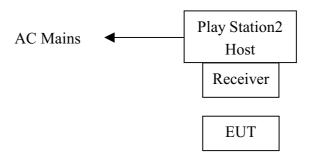
### 4. 6dB BANDWIDTH MEASUREMENT

# 4.1.Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	Jun.02, 02	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex 104	-	Jun.02, 02	1 Year

# 4.2.Block Diagram of Test Setup



(EUT: PS2 2.4G RF Wireless Controller)

# 4.3. Specification Limits (§15.247(a)(2))

The minimum 6dB bandwidth shall be at least 500kHz.

### 4.4. Operating Condition of EUT

- 1. Setup the EUT as shown in Section 4.2..
- 2. Let the EUT work in test mode (Running) and test it.

#### 4.5.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 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

#### 4.6.Test Results

#### PASSED.

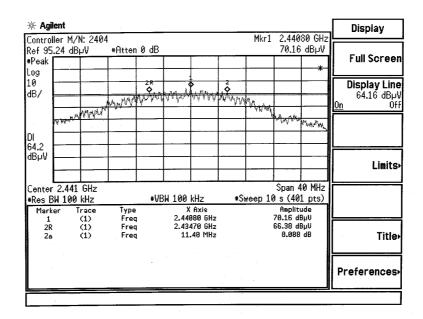
The testing data was attached in the next pages.

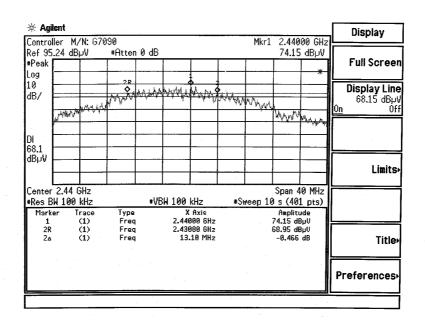
Date of Test:	Apr. 23, 2003	Temperature	:	23°C
EUT :	PS2 2.4G RF Wireless Controller	Humidity	:	58%
Model No. :	Controller: 2404	Test Mode	:	Running
Test Engineer:	Sean Xing			

Channel.	Frequency	6dB Bandwidth
1	2.44080GHz	11.40MHz

Date of Test:	Apr. 23, 2003	Temperature	:	$23^{\circ}\!\mathbb{C}$
EUT :	PS2 2.4G RF Wireless Controller	Humidity	:	58%
Model No. :	Controller: G7090	Test Mode	:	Running
Test Engineer:	Sean Xing			

Channel.	Frequency	6dB Bandwidth
1	2.44000GHz	13.10MHz





**p**age 5-1

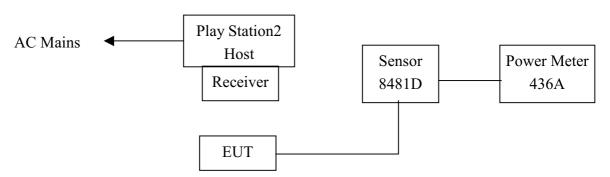
# 5. PEAK OUTPUT POWER MEASUREMENT

### 5.1.Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	Jun.02, 02	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex 104	-	Jun.02, 02	1 Year
5.	Power meter	HP	436A	2016A07891	NCR	
6.	Power Sensor	HP	8481D	3318A13613	Jun.02, 02	1Year

# 5.2.Block Diagram of Test Setup



(EUT: PS2 2.4G RF Wireless Controller)

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

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

# 5.4. Operating Condition of EUT

- 1. Setup the EUT as shown in Section 5.2..
- 2. Let the EUT work in test mode (Running) and test it.

### 5.5.Test Procedure

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

### 5.6.Test Results

#### PASSED.

The testing data was attached in the next pages.

Date of Test:	Apr. 23, 2003		Temperature:	23°℃
EUT :	PS2 2.4G RF Wire	eless Controller	Humidity :	58%
Model No. :	Controller	:: 2404	Test Mode :	Running
Test Engineer:	Sean X	ing		_
Frequency	Reading	Cable Loss	Poer Density	Limit
	dBm	dBm	dBm	dBm
2440.0MHz	-25.77	0.2	-25.57	30.00
Date of Test:	Apr. 23,	2003	Temperature :	23℃
EUT :	PS2 2.4G RF Wire	eless Controller	Humidity :	58%
Model No. :	Controller: G7090		Test Mode :	Running
Test Engineer:	Sean Xing			
Frequency	Reading Cable Loss		Poer Density	Limit

dBm

0.2

 $dB\mu V$ 

-25.18

2440.0MHz

Reviewer: Lake Wang

dBm

-24.98

dBm

30.00

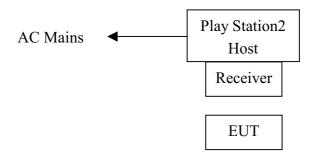
### 6. BAND EDGES MEASUREMENT

### 6.1.Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	Jun.02, 02	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex 104	-	Jun.02, 02	1 Year

# 6.2.Block Diagram of Test Setup



(EUT: PS2 2.4G RF Wireless Controller)

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

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

### 6.4. Operating Condition of EUT

- 1. Setup the EUT as shown in Section 6.2..
- 2. Let the EUT work in test mode (Running) and test it.

#### 6.5. Test Procedure

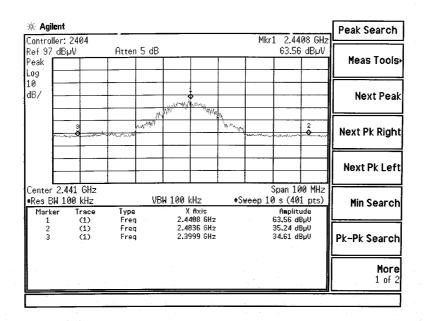
EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test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

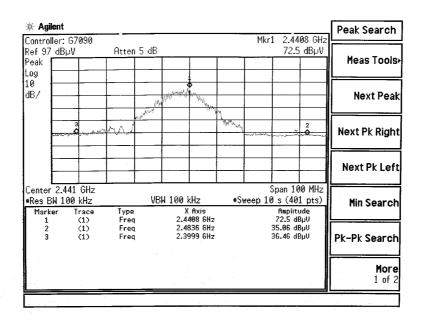
Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from bank edge.

#### 6.6.Test Results

#### PASSED.

The testing data was attached in the next pages.





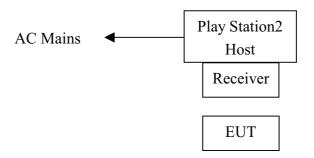
### 7. POWER SPECTRAL DESITY MEASUREMENT

### 7.1.Test Equipment

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

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	Mar.28, 03	1 Year
2.	Amp	HP	8449B	3008A00863	Jun.02, 02	1 Year
3.	Antenna	EMCO	3115	9607-4877	Dec. 04, 02	1.5 Year
4.	HF Cable	Hubersuhne	Sucoflex 104	-	Jun.02, 02	1 Year

# 7.2.Block Diagram of Test Setup



(EUT: PS2 2.4G RF Wireless Controller)

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

The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band.

# 7.4. Operating Condition of EUT

- 1. Setup the EUT as shown in Section 7.2..
- 2. Let the EUT work in test mode (Running) and test it.

#### 7.5.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 measured with the spectrum analyzer using 3kHz RBW and 30kHz VBW, set sweep time = span/3kHz.

#### 7.6.Test Results

#### PASSED.

The testing data was attached in the next pages.

Date of Test:Apr. 23, 2003Temperature:23°CEUT:PS2 2.4G RF Wireless ControllerHumidity:58%Model No.:Controller: 2404Test Mode:RunningTest Engineer:Sean Xing

Frequency	Reading	Poer Density	Limit
	$dB\mu V$	dBm	dBm
2439.9298MHz	65.73	-24.55	8.00

#### Remark:

Formulas used to calculate Power Density.

Using the relationship between field strength and RF power into an isotropic transmit antenna:

P(Watts)=  $(E(V/m) \times D: meters)^2 / 30G$  D=Distance

Antenna gain = -5dBi

 $G(numeric) = 10^{(G(dBi)/10)} = 10^{(-5dBi/10)} = 0.32$ 

 $65.73 dB\mu V = 0.0019341938 V/m$ 

 $P(Watt) = (0.0019341938V/m \times 3m)^2 / 9.6 = 3.5072865 \times 10^{-6}$ 

 $10*\log 3.5072865 \times 10^{-6} \times 10^{3} = -24.55$ dBm

Date of Test:Apr. 23, 2003Temperature: 23°CEUT:PS2 2.4G RF Wireless ControllerHumidity: 58%Model No.:Controller: G7090Test Mode: RunningTest Engineer:Sean Xing

Frequency	Reading	Poer Density	Limit
	$dB\mu V$	dBm	dBm
2440.0303MHz	68.91	-21.37	8.00

#### Remark:

Formulas used to calculate Power Density.

Using the relationship between field strength and RF power into an isotropic transmit antenna:

 $P(Watts) = (E(V/m) \times D: meters)^2 / 30G$  D=Distance

Antenna gain = -5dBi

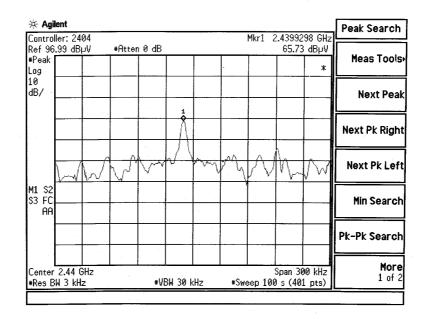
 $G(numeric) = 10^{(G(dBi)/10)} = 10^{(-5dBi/10)} = 0.32$ 

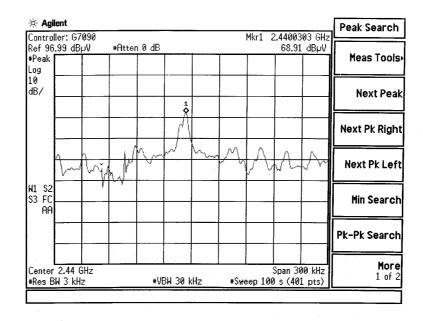
 $68.91 dB\mu V = 0.0027893306 V/m$ 

 $P(Watt) = (0.0027893306V/m \times 3m)^2 / 9.6 = 7.2940923 \times 10^{-6}$ 

 $10*\log 7.2940923 \times 10^{-6} \times 10^{3} = -21.37$ dBm

Reviewer:





#### 8. MAXIMUM PERMISSIBLE EXPOSURE

#### **CALCULATIONS**

Given

 $E = \sqrt{(30*P*G)/d}$ 

and

 $S=E^2/3770$ 

where

E=Field Strength in Volts/meter

P=Power in Watts

G=Numeric antenna gain

d=distance in meters

S=Power Density in milliwatts/square centimeter

Combining equations and rearranging the terms to express the distance as a function of the remaining variables yields:

$$d=\sqrt{((30*P*G)/(3770*S))}$$

Changing to units of mW and cm, using:

$$P(mW)=P(W)/1000$$
 and

d(cm)=100\*d(m)

yields

d=
$$100*\sqrt{((30*(P/1000)*G)/(3770*S))}$$
  
d= $0.282*\sqrt{(P*G/S)}$ 

where

d=distance in cm

P=Power in mW

G=Numeric antenna gain

S=Power Density in mW/cm<sup>2</sup>

Substituting the logarithmic form of power and gain using:

 $P(mW)=10^{(P(dBm)/10)}$  and

 $G(numeric)=10^{(G(dBi)/10)}$ 

yields

 $d=0.282*10^{(P+G)/20}/\sqrt{s}$ 

Equation(1)

where

d=MPE safe distance in cm

P=Power in dBm

G=Antenna Gain in dBi

S=Power Density Limit in mW/cm^2

#### **RESULTS**

No non-compliance noted:

### **MAXIMUM PERMISSIBLE EXPOSURE (2.4GHZ BAND)**

EUT output power = -24.98 dBm Antenna Gain = -5dBi S = 1.0mW / cm^2 from 1.1310 Table 1

Substituing these parameters into Equation (1) above:

MPE Safe Distance = 0.009 cm

### 9. DEVIATION TO TEST SPECIFICATIONS

(None.)

## **APPENDIX I**



Shenzhen Science & Ind Park

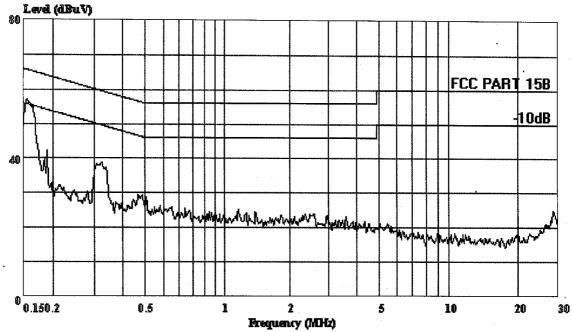
Tel:0755-26639496

Fax:26632877

Data#: 43

File#: Vision.EMI

Date: 2003-04-22 Time: 20:03:24



AUDIX TECHNOLOGY (SHENEHEN) CO., LTD. (Audix ATC)

Trace:

Ref Trace:

Condition: FCC PART 15B VA(KNW-407)

: PS2 2.4G RF Wireless Controller

M/N : Controller: 2404, Receiver: 2474

OP Cond

OP Cond : Running Test Spec : 120V/60Hz, DC 6V

Test Engineer: Sean Xing

Comment : Temp:24.6'C Humi:54%



(SHENZHEN) CO., LTD.

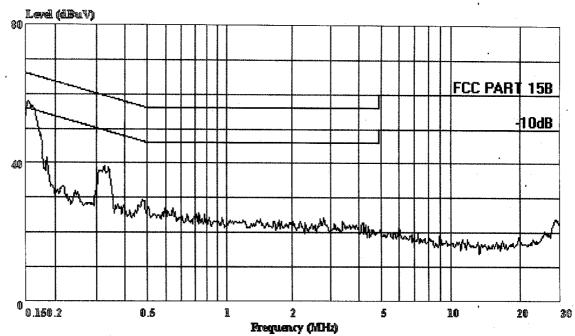
Shenzhen Science & Ind Park

Ref Trace:

Tel:0755-26639496

Fax:26632877

Data#: 41 File#: Vision.EMI Date: 2003-04-22 Time: 19:36:42



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)

Condition: FCC PART 15B VB(KNW-407)

: PS2 2.4G RF Wireless Controller : Controller: 2404, Receiver: 2474

OP Cond : Running

Trace:

EUT

M/N

Test Spec : 120V/60Hz, DC 6V

Test Engineer: Sean Xing

Comment : Temp:24.6'C Humi:54%



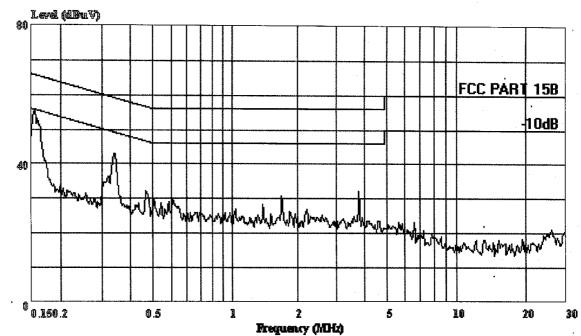
Shenzhen Science & Ind Park

Ref Trace:

Tel:0755-26639496

Fax:26632877

Data#: 37 File#: Vision.EMI Date: 2003-04-22 Time: 18:41:08



AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (Audix ATC)

Condition: FCC PART 15B VA(KNW-407)

: PS2 2.4G RF Wireless Controller

M/N : Controller: G7090, Receiver: 2476

Trace:

EUT

OP Cond : Running Test Spec : 120V/60Hz, DC 3V

Test Engineer: Sean Xing

Comment : Temp:24.6'C Humi:54%



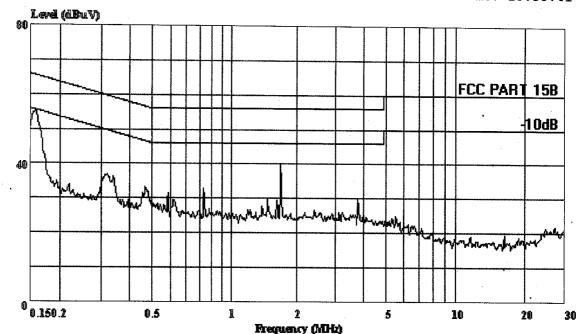
Shenzhen Science & Ind Park

Ref Trace:

Tel:0755-26639496

Fax:26632877

Data#: 39 File#: Vision.EMI Date: 2003-04-22 Time: 18:58:41



AUDIX TECHNOLOGY (SHENEHEN) CO., LTD. (Audix ATC)

Condition: FCC PART 15B VB(KNW-407) : PS2 2.4G RF Wireless Controller

EUT M/N : Controller: G7090, Receiver: 2476

Trace:

OP Cond : Running Test Spec : 120V/60Hz, DC 3V

Test Engineer: Sean Xing

Comment : Temp:24.6'C Humi:54%

## **APPENDIX II**



Shenzhen Science & Ind. Park

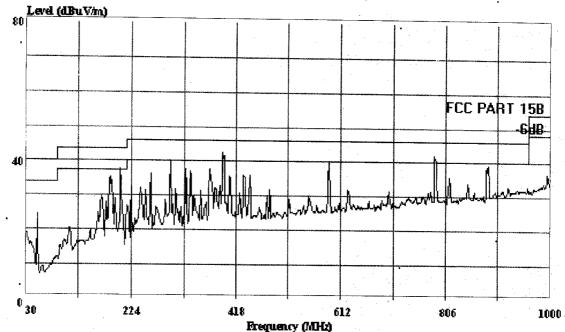
Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 9

File#: Vision.EMI

Date: 2003-04-23 Time: 22:10:38



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

M/N

: PS2 2.4G RF Wireless Controller : Controller: 2404. Receiver: 2474

Power

: Host 120V/60Hz DC 6V

Test Engineer: Sean Xing

Comment : Temp: 23' C Humi: 58%

Memo



Shenzhen Science & Ind. Park

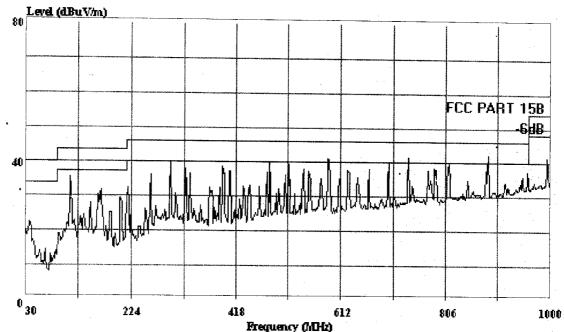
Tel: 0755-26639495~7 Fax: 0755-26632877

(SHENZHEN) CO. LTD

Data#: 11

File#: Vision.EMI

Date: 2003-04-23 Time: 22:30:42



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : PS2 2.4G RF Wireless Controller M/N : Controller: 2404. Receiver: 2474

Power : Host 120V/60Hz DC 6V Test Engineer: Sean Xing

: Temp: 23' C, Humi: 28% Comment

: Running Memo



Shenzhen Science & Ind. Park

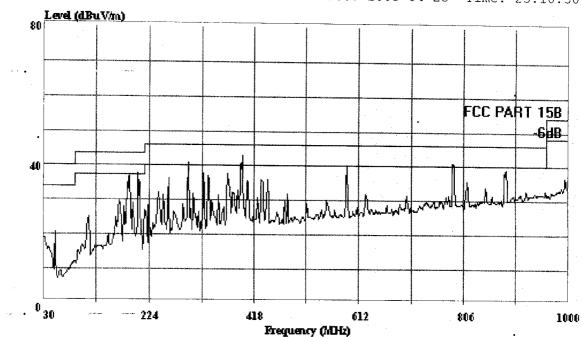
Tel: 0755-26639495~7 Fax: 0755-26632877

(SHENZHEN) CO., LTD.

Data#: 15

File#: Vision.EMI

Date: 2003-04-23 Time: 23:10:50



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

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL EUT : PS2 2.4G RF Wireless Controller M/N : Controller: G7090. Receiver: 2476

Power : Host 120V/60Hz DC 3V

Test Engineer: Sean Xing

Comment: : Temp: 23' C Humi: 58%

Memo : Running



Data#: 13

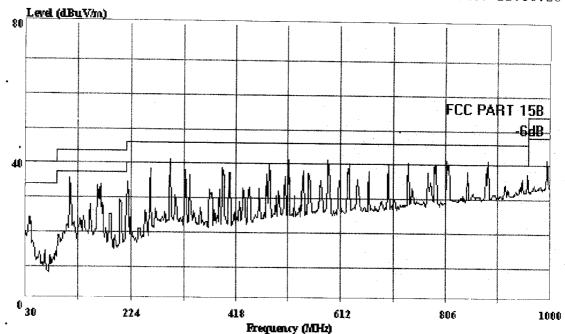
Shenzhen Science & Ind. Park

Tel: 0755-26639495~7 Fax: 0755-26632877

AUDIA FECHNOLOGY (SHENZHEN) CO., LTD.

File#: Vision.EMI

Date: 2003-04-23 Time: 22:50:25



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

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL EUT : PS2 2.4G RF Wireless Controller

M/N : Controller: G7090. Receiver: 2476

Power : Host 120V/60Hz DC 3V

Test Engineer: Sean Xing

Comment : Temp: 23' C, Humi: 28%

Memo : Running

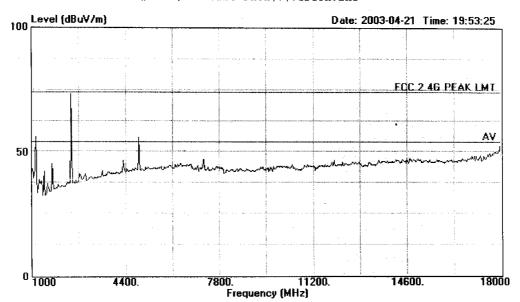


AUDIX Technology (Shenzhen) Co., Ltd.

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\V\Vision.EMI



: 1# Chamber

Condition

: FCC 2.4G PEAK LMT 3m 3115FACTOR HORIZONTAL

: PS2 2.4G RF Wireless Controller

M/N

: Controller 2404

Power

: DC 6V

Memo

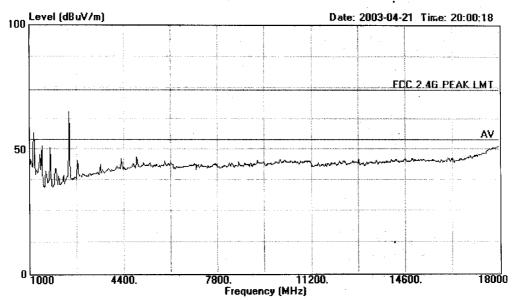
Test Engineer : Sean Xing



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Data#: 11 File#: C:\EMI TEST DATA\V\Vision.EMI



Site

: 1# Chamber

Condition

: FCC 2.4G PEAK LMT 3m 3115FACTOR VERTICAL

: PS2 2.4G RF Wireless Controller EUT

: Controller 2404 M/N

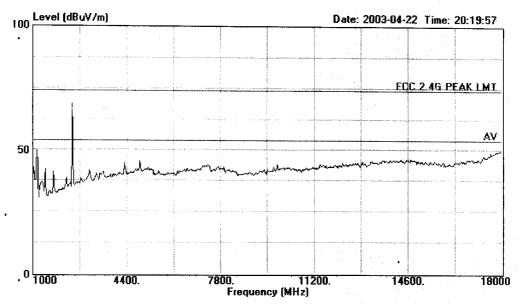
Power .: DC 6V Test Engineer : Sean Xing : Running



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Data#: 17 File#: C:\EMI TEST DATA\V\Vision.EMI



Site

: 1# Chamber

Condition

: FCC 2.4G PEAK LMT 3m 3115FACTOR HORIZONTAL

EUT

: PS2 2.4G RF Wireless Controller

M/N

: Controller G7090

Power Test Engineer : Sean King

: DC 3V

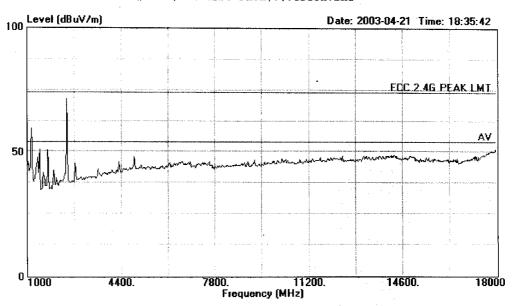


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Data#: 8

File#: C:\EMI TEST DATA\V\Vision.EMI



Site

: 1# Chamber

Condition

: FCC 2.4G PEAK LMT 3m 3115FACTOR VERTICAL

EUT

: PS2 2.4G RF Wireless Controller

M/N

: Controller G7090

Power

Test Engineer : Sean Xing

: DC 3V

Memo

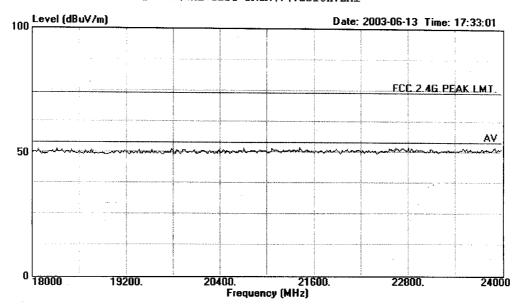


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Data#: 65

File#: C:\EMI TEST DATA\V\Vision.EMI



Site

: 1# Chamber

Condition

: FCC 2.4G PEAK LMT. 3m 3115FACTOR HORIZONTAL

EUT

: PS2 2.4G RF Wireless Controller

M/N

: Controller 2404

Power Test Engineer : Sean Xing

: DC 6V

Memo

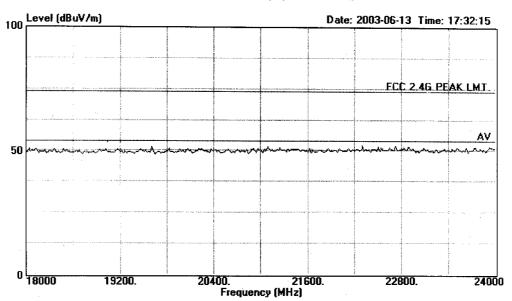


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Data#: 64

File#: C:\EMI TEST DATA\V\Vision.EMI



Site

: 1# Chamber

Condition

: FCC 2.4G PEAK LMT. 3m 3115FACTOR VERTICAL

EUT

: PS2 2.4G RF Wireless Controller

M/N

: Controller 2404

Power

: DC 6V

Test Engineer : Sean Xing

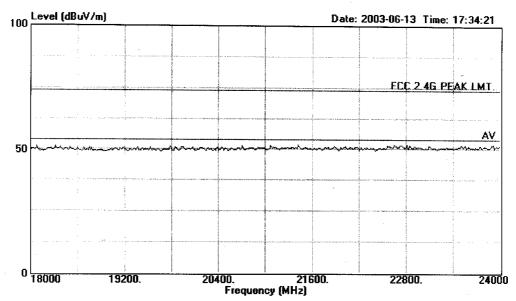


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Data#: 66

File#: C:\EMI TEST DATA\V\Vision.EMI



Site

: 1# Chamber

Condition

: FCC 2.4G PEAK LMT. 3m 3115FACTOR HORIZONTAL

EUT

: PS2 2.4G RF Wireless Controller

M/N

Power

: Controller G7090

Test Engineer : Sean Xing

: DC 3V

Memo

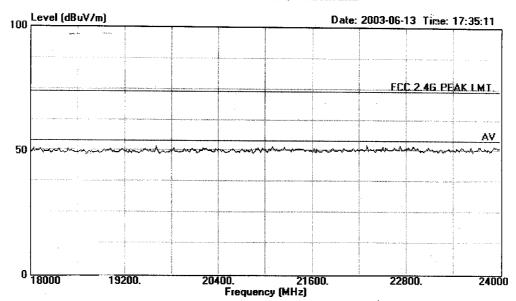


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Data#: 67

File#: C:\EMI TEST DATA\V\Vision.EMI



Site

: 1# Chamber

Condition

: FCC 2.4G PEAK LMT. 3m 3115FACTOR VERTICAL

EUT

: PS2 2.4G RF Wireless Controller

M/N

Power

: Controller G7090

Test Engineer : Sean Xing

: DC 3V

Memo