APPLICATION FOR CERTIFICATION On Behalf of

Vision Electronics Co., Ltd.

Gamecube 2.4G RF Wireless Controller

Model Number: 2176/2178

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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Date of Test : Apr. 28, 2003
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TEST REPORT DECLARATION

Applicant Vision Electronics Co., Ltd. Manufacturer Vision Electronics Co., Ltd. Gamecube 2.4G RF Wireless Controller **EUT Description** (A) MODEL NO. 2176/2178 (B) SERIAL NO. F2003060901 (C) POWER SUPPLY: DC 6V Test Procedure Used: FCC Rules and Regulations Part 15 Subpart C Aug 2002. 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: Apr.28, 2003 Prepared by: Reviewer: For and on behalf of AUDIX TECHNOLOGY (SHENZHEN) CO.,LTD. Alex Deng Amberitans Approved & Authorized Signer: Name of the Representative of the Responsible Party:

Signature:

1. GENERAL INFORMATION

1.1.Description of Device (EUT)

Description : Gamecube 2.4G RF Wireless Controller

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

controllers are not part of this application for

certification.)

Modulation Technique : DSSS

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

Model Number : 2176/2178

(Between the two model 2176 & 2178 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.

Data Cable : Shielded, Detachable 1.8m

Power Cord : Unshielded, Detachable 1.8m

Date of Test : Apr. 28, 2003

1.2. Tested Supporting System Details

Gamecube Host : Manufacturer: NINTENAO

M/N: DOL-001 (USA)

DC 12V

Host Power Supply: Manufacturer: NINTENAO

M/N: DOL-002 (EUR)

Input: 230V/50Hz, Output: 12Vac/3.25A

TV : Manufacturer: TCL

M/N: 1419A

Controller : Manufacturer: Vision

M/N: 2103/G5090

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 = ± 2.66 dB

Radiated Emission Uncertainty = ± 4.26 dB

2. POWER LINE CONDUCTED EMISSION TEST

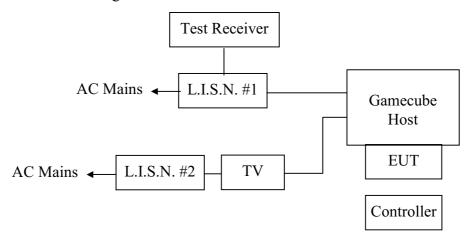
2.1.Test Equipment

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: Gamecube 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(µV)		
150KHz ~ 500KHz	66 ~ 56*	56 ~ 46*		
500KHz ~ 5MHz	56	46		
5MHz ~ 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. Gamecube 2.4G RF Wireless Controller (EUT)

Model Number : 2176/2178 Serial Number : F2003060901

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 gamecube host 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 gamecube host. 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. 28, 2003 Temperature : 24.6° C

EUT : Gamecube 2.4G RF Wireless Humidity : 54%Controller

Model No. : Controller: 2103, Test Mode : Running

Receiver: 2176

Test Engineer: Sean Xing

Frequency		Reading	Limit				
1	V.	A	VI	3	(dBµV)		
(MHz)	Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average	
0.173	51.73	48.05	*	*	64.84	54.84	
0.174	*	*	50.69	47.26	64.79	54.79	
0.287	42.04	40.21	*	*	60.62	50.62	
0.288	*	*	41.67	39.06	60.57	50.57	
0.403	0.403 35.39		*	*	57.80	47.80	
1.790	*	*	39.75	35.98	56.00	46.00	
1.846	40.62	36.37	*	*	56.00	46.00	
1.903	40.67	37.94	*	*	56.00	46.00	
1.905	*	*	37.77	33.76	56.00	46.00	
2.771	37.10	30.15	34.49	30.68	56.00	46.00	
4.156	*	*	37.48	35.08	56.00	46.00	

[&]quot;*" As the QP value is too low against AV limit, So AV Value had been omitted.

Date of Test : Apr. 28, 2003 Temperature : 24.6° C

EUT : Gamecube 2.4G RF Wireless Humidity : 54%

Controller

Model No. : Controller: G5090, Test Mode : Running

Receiver: 2178

Test Engineer: Sean Xing

Frequency		Reading	<u> </u>	(dBµV)		Limit	
	V	A	VI	3	(dBµV)		
(MHz)	Quasi-Peak	Average	Quasi-Peak	Average	Quasi-Peak	Average	
0.173	51.73	48.05	*	*	64.84	54.84	
0.174	*	*	50.69	47.26	64.79	54.79	
0.287	42.04	40.21	*	*	60.62	50.62	
0.288	*	*	41.67	39.06	60.57	50.57	
0.403	35.39	34.73	*	*	57.80	47.80	
1.790	*	*	39.75	35.98	56.00	46.00	
1.846	40.62	36.37	*	*	56.00	46.00	
1.903	40.67	37.94	*	*	56.00	46.00	
1.905	*	*	37.77	33.76	56.00	46.00	
2.771	37.10	30.15	34.49	30.68	56.00	46.00	
4.156	*	*	37.48	35.08	56.00	46.00	

[&]quot;*" As the QP value is too low against AV limit, So AV Value had been omitted.

3. RADIATED EMISSION TEST

3.1.Test Equipment

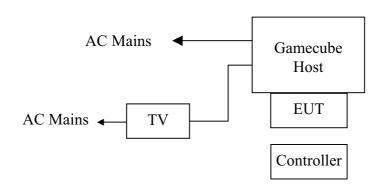
The following test equipments are used during the radiated emission test:

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

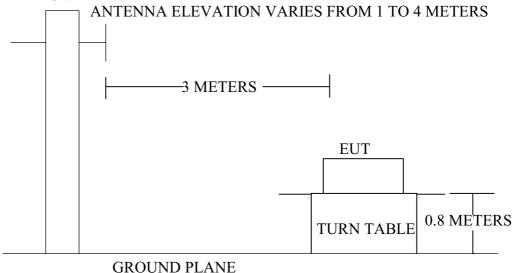
3.2.1.Block diagram of connection between the EUT and simulators



(EUT: Gamecube 2.4G RF Wireless Controller)

3.2.2.In Anechoic Chamber

ANTENNA TOWER



3.3. Radiated Emission Limit

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

Remark: (1) Emission level (dB) μ V = 20 log Emission level μ 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.Gamecube 2.4G RF Wireless Controller (EUT)

Model Number : 2176/2178 Serial Number : F2003060901

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. 28, 2003	Temperature	:	23 ℃
EUT :	Gamecube 2.4G RF Wireless	cube 2.4G RF Wireless Humidity		58%
_	Controller	_		
Model No. :	Controller: 2103,	Test Mode	:	Running
	Receiver: 2176			
Test Engineer:	Sean Xing	_		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
	Factor	Loss	Horizontal	Horizontal	Limits	
MHz	dB/m	dB	$dB\mu V$	$dB\mu V/m$	dB	$dB\mu V/m$
135.430	11.50	2.35	19.40	33.26	-10.24	43.50
159.980	11.16	2.64	19.69	33.49	-10.01	43.50
168.200	10.26	2.70	20.55	33.50	-10.00	43.50
324.230	14.20	4.04	18.53	36.77	-9.23	46.00
499.360	17.76	5.58	15.40	38.74	-7.26	46.00
810.970	21.47	7.02	9.56	38.05	-7.95	46.00

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

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

Date of Test:	Apr. 28, 2003	Temperature	:	23°℃
EUT :	Gamecube 2.4G RF Wireless	4G RF Wireless Humidity		58%
_	Controller	_		
Model No. :	Controller: 2103,	Test Mode	:	Running
_	Receiver: 2176	_		
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	$dB\mu V/m$
51.330	6.97	1.38	22.00	30.35	-9.65	40.00
103.450	10.85	2.07	15.85	28.78	-14.73	43.50
210.440	9.07	3.07	21.66	33.80	-9.70	43.50
484.840	18.29	5.58	14.73	38.60	-7.40	46.00
500.110	18.90	5.58	13.48	37.95	-8.05	46.00
807.450	21.51	7.02	10.56	39.09	-6.91	46.00

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

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

Date of Test:	Apr. 28, 2003	Temperature	:	23°℃
EUT :	Gamecube 2.4G RF Wireless	4G RF Wireless Humidity		58%
_	Controller	_		
Model No. :	Controller: G5090,	Test Mode	:	Running
_	Receiver: 2178	_		
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	$dB\mu V/m$
135.730	11.50	2.35	19.42	33.27	-10.23	43.50
159.980	11.16	2.64	19.69	33.49	-10.01	43.50
169.680	10.26	2.70	20.81	33.77	-9.73	43.50
324.880	14.20	4.04	18.51	36.75	-9.25	46.00
499.480	17.76	5.58	15.42	38.76	-7.24	46.00
809.880	21.47	7.02	10.17	38.66	-7.34	46.00

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

- 2. Emission Level = Antenna Factor + Cable Loss + Meter Reading
- 3. The worst emission was detected at 499.480MHz with corrected signal level of $38.76dB\mu V/m$ (Limit is $46.00~dB\mu V/m$) when the antenna was at horizontal polarization and at 2.0m high and the turn table was at 200 °.
- 4. 0 °was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Date of Test:	Apr. 28, 2003	Temperature	:	2 3℃
EUT :	Gamecube 2.4G RF Wireless	Humidity	:	58%
_	Controller	_		
Model No. :	Controller: G5090,	Test Mode	:	Running
_	Receiver: 2178	_		
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	$dB\mu V/m$
51.340	6.97	1.38	22.49	30.84	-9.16	40.00
103.720	10.85	2.07	15.47	28.39	-15.11	43.50
211.390	9.07	3.07	21.20	33.34	-10.16	43.50
484.930	18.29	5.58	15.12	38.99	-7.01	46.00
499.480	18.90	5.58	13.02	37.50	-8.51	46.00
809.880	21.51	7.02	11.30	39.83	-6.17	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 809.880 MHz with corrected signal level of $39.83 dB\mu V/m$ (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 240° .
- 4. 0 °was the table front facing the antenna. Degree is calculated from 0 ° clockwise facing the antenna.

Date of Test:	Apr. 28, 2003	Temperature	:	23°℃
EUT :	Gamecube 2.4G RF Wireless	- Humidity	:	58%
_	Controller	_		
Model No. :	Receiver: 2176	Test Mode	:	Running
Test Engineer:	Sean Xing			

Frequency	Antenna	Preamp	Cable	Meter Reading	Emission	Over	Limits	Remark
	Factor	Factor	Loss	Horizontal	Level	Limits		
MHz	dB	dB	dB	dΒμV	Horizontal	dB	dBμV/m	
					$dB\mu V/m$			
1134.000	23.67	35.55	3.22	51.35	42.69	-31.31	74.00	Peak
1134.000	23.67	35.55	3.22	42.53	33.87	-20.13	54.00	Average
2440.000	28.14	34.98	5.74	63.35	62.25	-	-	Peak
2440.000	28.14	34.98	5.74	54.23	53.13	-	-	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	Emission Level	Over	Limits	Remark
	Factor	Factor	Loss	Vertical	Vertical	Limits		
MHz	dB	dB	dB	dΒμV	$dB\mu V/m$	dB	$dB\mu V/m$	
1134.000	23.67	35.55	3.22	53.69	45.03	-28.97	74.00	Peak
1134.000	23.67	35.55	3.22	40.69	32.03	-21.97	54.00	Average
2440.000	28.14	34.98	5.74	67.66	66.56	-	-	Peak
2440.000	28.14	34.98	5.74	53.50	52.40	-	-	Average
4880.000	33.08	34.46	8.01	40.74	47.37	-26.63	74.00	Peak
4880.000	33.08	34.46	8.01	27.54	34.17	-19.83	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.

Date of Test:	Apr. 28, 2003	Temperature	:	23°C
EUT :	Gamecube 2.4G RF Wireless	Humidity	:	58%
_	Controller			
Model No. :	Receiver: 2178	Test Mode	:	Running
Test Engineer:	Sean Xing	_		

Frequency	Antenna	Preamp	Cable	Meter Reading	Emission Level	Over	Limits	Remark
	Factor	Factor	Loss	Horizontal	Horizontal	Limits		
MHz	dB	dB	dB	$dB\mu V$	$dB\mu V/m$	$dB\mu V/m \\$	$dB\mu V/m \\$	
1134.000	23.67	35.55	3.22	50.42	41.76	-32.24	74.00	Peak
1134.000	23.67	35.55	3.22	38.51	29.85	-24.15	54.00	Average
2440.000	28.14	34.98	5.74	62.83	61.73	-	-	Peak
2440.000	28.14	34.98	5.74	54.84	53.74	-	-	Average
4880.000	33.08	34.46	8.01	45.01	51.64	-22.36	74.00	Peak
4880.000	33.08	34.46	8.01	35.80	42.43	-11.57	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.

Frequency	Antenna	Preamp	Cable	Meter Reading	Emission Level	Over	Limits	Remark
	Factor	Factor	Loss	Vertical	Vertical	Limits		
MHz	dB	dB	dB	$dB\mu V$	$dB\mu V/m$	$dB\mu V/m \\$	$dB\mu V/m$	
1134.000	23.67	35.55	3.22	52.96	44.30	-29.70	74.00	Peak
1134.000	23.67	35.55	3.22	40.57	31.91	-22.09	54.00	Average
2440.000	28.14	34.98	5.74	70.58	69.48	-	-	Peak
2440.000	28.14	34.98	5.74	60.55	59.45	-	-	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.



OGI (SHENZHEN) CO., LTD.

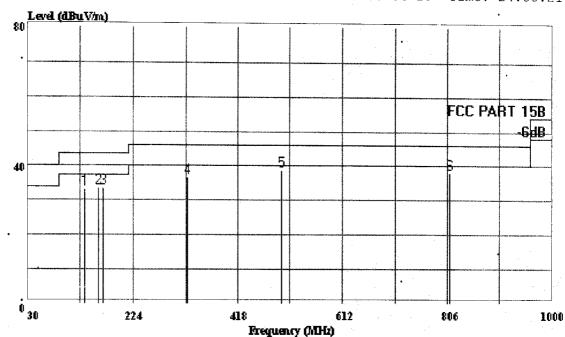
Shenzhen Science & Ind. Park

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

Data#: 32

File#: Vision.EMI

Date: 2003-04-28 Time: 24:58:21



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

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL EUT : GAMECUBE 2.4G RF Wireless Controller M/N : Controller: 2103. Receiver: 2176

Power : Host 230V/50Hz DC 4.8V

Test Engineer: Sean Xing

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

Memo : Running

	Frea	Level	Limit Line	Over Limit		Probe Factor	.Cable	Page: 1
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB	
1 2 3 4 5	135.430 159.980 168.200 324.230 499.360	33.50 36.77	43.50 43.50 46.00	-10.00	19.40 19.69 20.55 18.53 15.40	11.50 11.16 10.26 14.20 17.76	2.35 2.64 2.70 4.04 5.58	
6	810.970	38.05	46.00	-7.95	9.56	21.47	7.02	

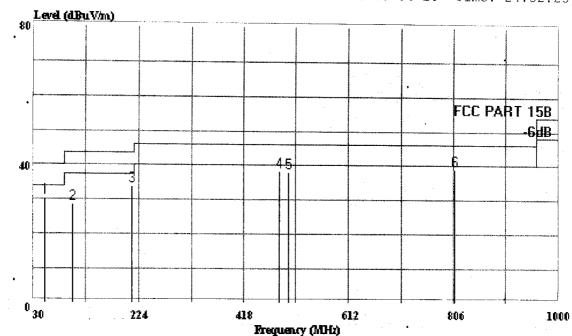


Shenzhen Science & Ind. Park

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

CHNOLOGY (SHENZHEN) CO., LTD.

Data#: 31 File#: Vision.EMI Date: 2003-04-28 Time: 24:52:23



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

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL EUT : GAMECUBE 2.4G RF Wireless Controller M/N : Controller: 2103. Receiver: 2176

Power : Host 230V/50Hz DC 4.8V

Test Engineer: Sean Xing

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

Memo : Running

•	Frea	Level	Limit Line	Over Limit		Probe Factor	Cable Loss	Page:	1
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	. dB		
1 •	51.330	30.35	40.00	-9.65	22.00	6.97	1.38		
2.	103.450	28.78	43.50	-14.73	15.85	10.85	2.07		
3	210.440	33.80	43.50	-9.70	21.66	9.07	3.07		
4	484.840	38.60	46.00	-7.40	14.73	18.29	5.58		
5	500.110	37.95	46.00	-8.05	13.48	18.90	5.58		
6	807.450	39.09	46.00	-6.91	10.56	21.51	7.02		



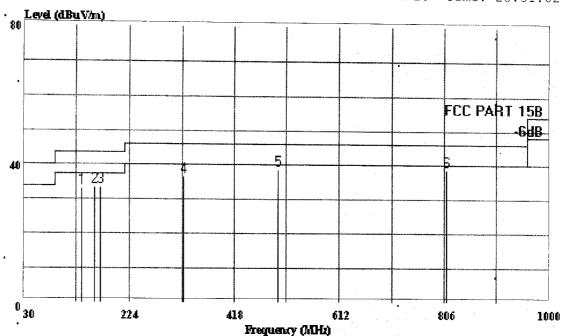
Shenzhen Science & Ind. Park

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

NOLOGY (SHENZHEN) CO., LTD.

Data#: 24 File#: Vision.EMI Date:

Date: 2003-04-28 Time: 23:31:02



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

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL EUT : GAMECUBE 2.4G RF Wireless Controller M/N : Controller: G5090. Receiver: 2178

Power : Host 230V/50Hz DC 3V

Test Engineer: Sean Xing

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

Memo : Runnina

: Frea: 499.480MHz

: Ant Pos: 2 m, T-Table Pos: 200 degree

Page: 1
Limit Over Read Probe Cable
From Loyal Limit Level Factor Loss

•	Frea	Level	Line	Limit	Level	Factor	Loss
	MHz	dBuV/m	dBuV/m	dB	dBu√	dВ	dВ
1	135.730	33.27	43.50	-10.23	19.42	11.50	2.35
2.	159.980	33.49	43.50	-10.01	19.69	11.16	2.64
3	169.680	33.77	43.50	-9.73	20.81	10.26	2.70
4	324.880	36.75	46.00	-9.25	18.51	14.20	4.04
5	499.480	38.76	46.00	-7.24	15.42	17.76	5.58
6	809.880	38.66	46.00	-7.34	10.17	21.47	7.02

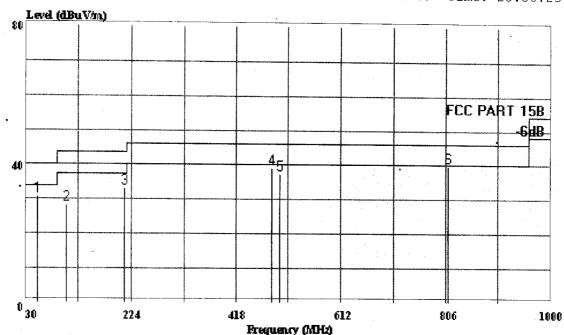
AUDIX (SHE

(SHENZHEN) CO., LTD. Fax: 0755-26632877

Shenzhen Science & Ind. Park

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

Data#: 23 File#: Vision.EMI Date: 2003-04-28 Time: 23:30:23



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

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : GAMECUBE 2.4G RF Wireless Controller M/N : Controller: G5090. Receiver: 2178

Power : Host 230V/50Hz DC 3V

Test Engineer: Sean Xing

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

Memo : Running

: Frea: 809.880MHz

: Ant Pos: 1m, T-Table Pos: 240 degree

Page: 1 Limit Over Read Probe Cable Line Limit Level Factor Fred Level Loss dВ MHz dBuV/m dBuV/m dBuV dB dВ 51.340 30.84 40.00 -9.16 22.49 6.97 1.38 1 103.720 28.39 43.50 -15.11 15.47 10.85 2.07 2 211.390 33.34 43.50 -10.16 21.20 9.07 . 3.07 3 484.930 38.99 46.00 -7.01 15.12 18.29 5.58 5 499.480 37.50 46.00 -8.51 13.02 18.90 5.58 39.83 46.00 -6.17 11.30 21.51 7.02 809.880

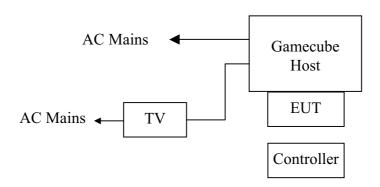
4. 6dB BANDWIDTH MEASUREMENT

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: Gamecube 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.

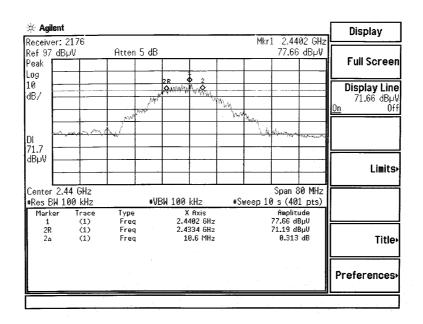
The testing data was attached in the next pages.

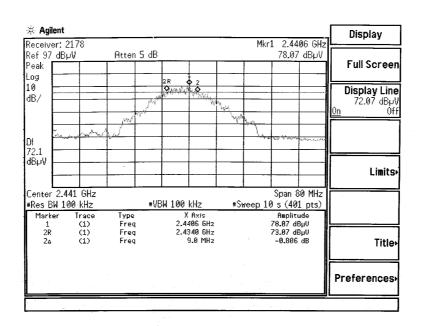
Date of Test:	Apr. 28, 2003	Temperature	:	23°C
EUT :	Gamecube 2.4G RF Wireless	Humidity	:	58%
_	Controller	_		
Model No. :	Receiver: 2176	Test Mode	:	Running
Test Engineer:	Sean Xing	_		

Channel.	Frequency	6dB Bandwidth
1	2.4402GHz	10.6MHz

Date of Test	Apr. 28, 2003	Temperature	:	$23^{\circ}\!\mathrm{C}$
EUT	Gamecube 2.4G RF Wireless	Humidity	:	58%
	Controller			
Model No.	Receiver: 2178	Test Mode	:	Running
Test Engineer	: Sean Xing			

Cha	nnel.	Frequency	6dB Bandwidth
	1	2.4406GHz	9.0MHz





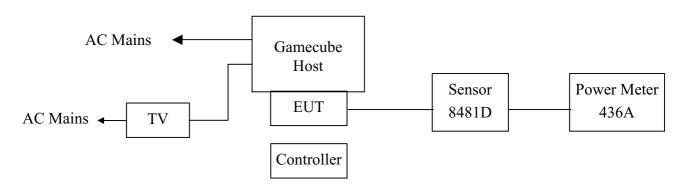
5. PEAK OUTPUT POWER MEASUREMENT

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: Gamecube 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 gamecube host 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. 28, 2003		Temperature:	23°℃
EUT :	Gamecube 2.4G RF Wireless		Humidity :	58%
	Contr	oller	_	
Model No. :	Receive	r: 2176	Test Mode :	Running
Test Engineer:	Sean	Xing		
Frequency	Reading	Cable Loss	Peak Power	Limit
	dBm	dBm	dBm	dBm
2440.0MHz	-66.1	0.2	-65.9	30.00
Date of Test:	Apr. 28	3, 2003	Temperature :	23 ℃
EUT :	Gamecube 2.40	G RF Wireless	Humidity :	58%
_	Contr			
Model No. :	Receive	r: 2178	Test Mode :	Running
Test Engineer: _	Sean Xing			
Frequency	Reading dBµV	Cable Loss dBm	Poer Density dBm	Limit dBm
2440.0MHz	-54.0	0.2	-53.8	30.00

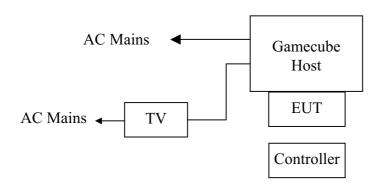
6. BAND EDGES MEASUREMENT

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: Gamecube 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

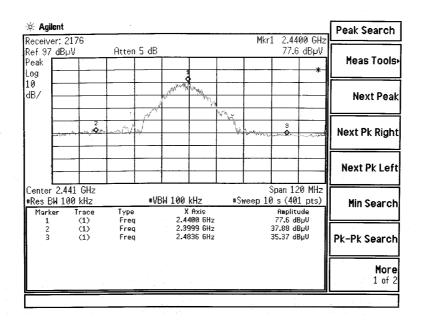
EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it work normally, we use a keyboard test soft ware, let EUT working in test mode, then test 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.

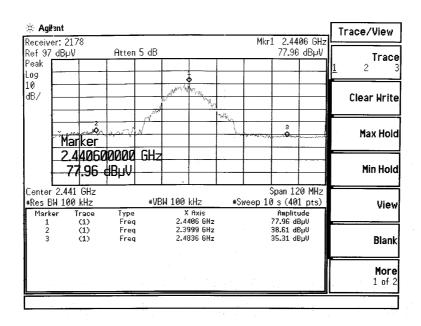
Set both RBW and VBW of spectrum analyzer to 100kHz with suitable frequency span including 100kHz bandwidth from bank edge.

6.6.Test Results

PASSED.

The testing data was attached in the next pages.





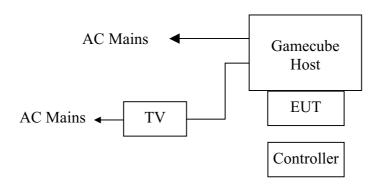
7. POWER SPECTRAL DESITY MEASUREMENT

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	Sucoflex104	-	Jun.02, 02	1 Year

7.2.Block Diagram of Test Setup



(EUT: Gamecube 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. 28, 2003 Temperature: 23°C

EUT: Gamecube 2.4G RF Wireless
Controller

Model No.: Receiver: 2176 Test Mode: Running

Test Engineer: Sean Xing

Frequency	Reading	Poer Density	Limit	
	$dB\mu V$	dBm	dBm	
2440.1125MHz	71.49	-18.8	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

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

 $71.49 dB \mu V = 0.0037540495 V/m$

 $P(Watt) = (0.0037540495 \text{V/m x 3m})^2 / 9.6 = 1.3212082 \text{ x } 10^{-5}$

 $10*\log 1.3212082 \times 10^{-5} \times 10^{3} = -18.8$ dBm

Date of Test:	Apr. 28, 2003	Temperature	:	$23^{\circ}\!\mathrm{C}$
EUT :	Gamecube 2.4G RF Wireless	Humidity	:	58%
	Controller	_		
Model No. :	Receiver: 2178	Test Mode	:	Running
Test Engineer:	Sean Xing	_		

Frequency	Reading	Poer Density	Limit	
	$dB\mu V$	dBm	dBm	
2439.9328MHz	70.38	-19.9	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

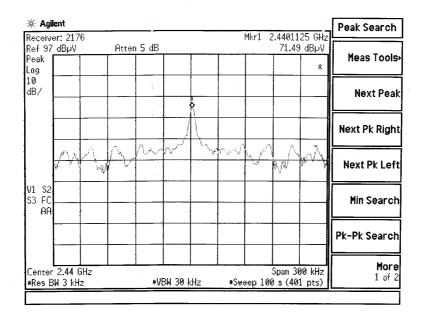
Antenna gain = -5dBi

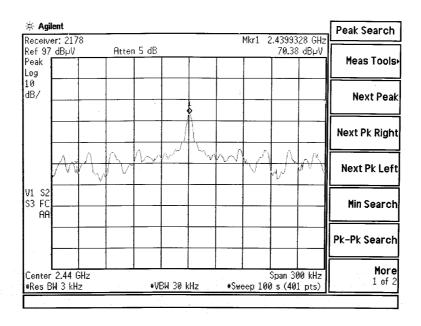
 $G(numeric) = 10^{(G(dBi)/10)} = 10^{(-5dBi/10)} = 0.32$

70.38dB μ V = 0.0033036954V/m

 $P(Watt) = (0.0033036954 \text{V/m x 3m})^2 / 9.6 = 1.0232253 \text{ x } 10^{-5}$

 $10*\log 1.0232253 \times 10^{-5} \times 10^{3} = -19.9$ dBm





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/cm²

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 = -53.8 dBm Antenna Gain = -5dBi S = 1.0mW / cm^2 from 1.1310 Table 1

Substituing these parameters into Equation (1) above:

MPE Safe Distance = 0.00032 cm

9. DEVIATION TO TEST SPECIFICATIONS

(None.)

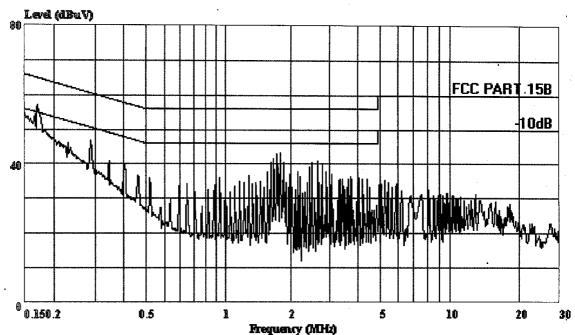
APPENDIX I



Tel:0755-26639496

Fax:26632877

Data#: 45 File#: Vision.EMI Date: 2003-04-28 Time: 09:23:17



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

Trace:

Ref Trace:

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

EUT : GAMECUBE 2.4G RF Wireless Controller M/N : Controller: 2103 Receiver: 2176

OP Cond : Running Test Spec : AC 230V/50Hz DC4.8v

Test Engineer: Chris

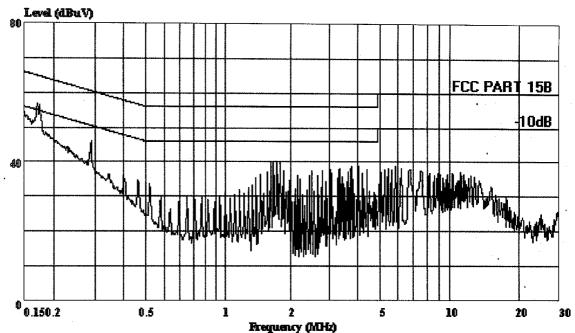
Comment : Temp:24.6'C Humi:54%



Ref Trace:

Tel:0755-26639496 Fax:26632877

Data#: 46 File#: Vision.EMI Date: 2003-04-28 Time: 09:25:32



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

Condition: FCC PART 15B VB(KNW-407) : GAMECUBE 2.4G RF Wireless Controller EUT M/N : Controller: 2103 Receiver: 2176

OP Cond : Running Test Spec : AC 230V/50Hz DC4.8v

Test Engineer: Chris

Trace:

: Temp:24.6'C Humi:54% Comment



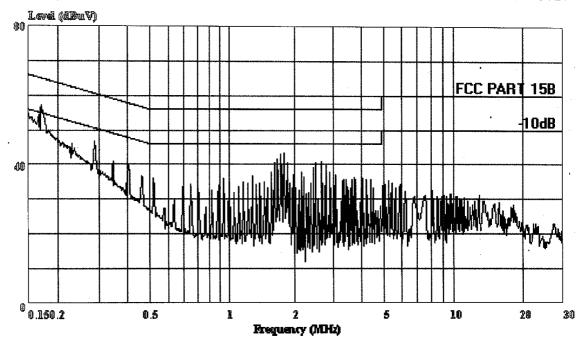
(SHENZHEN) CO., LTD.

Shenzhen Science & Ind Park

Tel:0755-26639496

Fax:26632877

Data#: 57 File#: Vision.EMI Date: 2003-04-28 Time: 09:33:17



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

Ref Trace: Trace:

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

: GAMECUBE 2.4G RF Wireless Controller EUT M/N : Controller: G5090 Receiver: 2178

OP Cond : Running Test Spec : AC 230V/50Hz DC3V

Test Engineer: Chris

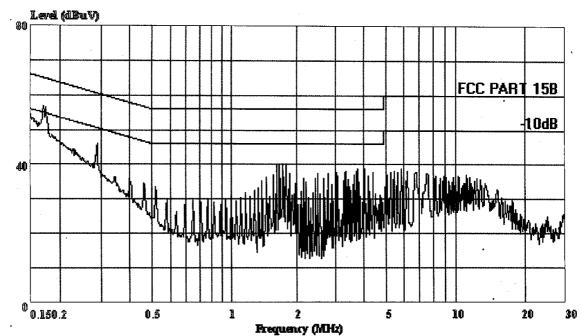
: Temp:24.6'C Humi:54% Comment



Tel:0755-26639496

Fax:26632877

Data#: 58 File#: Vision.EMI Date: 2003-04-28 Time: 09:36:32



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

Trace:

Ref Trace:

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

EUT : GAMECUBE 2.4G RF Wireless Controller M/N : Controller: G5090 Receiver: 2178

OP Cond : Running
Test Spec : AC 230V/50Hz DC3V

Test Engineer: Chris

: Temp:24.6'C Humi:54% Comment

APPENDIX II



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

(SHENZHEN) CO., LTD.

Data#: 25 File#: Vision.EMI

Date: 2003-04-28 Time: 24:05:23 . Level (dBuV/m) FCC PART 158 eas 40 0 30 1000 224 418 806 612

Frequency (MHz)

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

Ref Trace: Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORTZONTAL : GAMECUBE 2.4G RF Wireless Controller M/N : Controller: 2103. Receiver: 2176

Power : Host 230V/50Hz DC 4.8V

Test Engineer: Sean Xing

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

Memo : Running



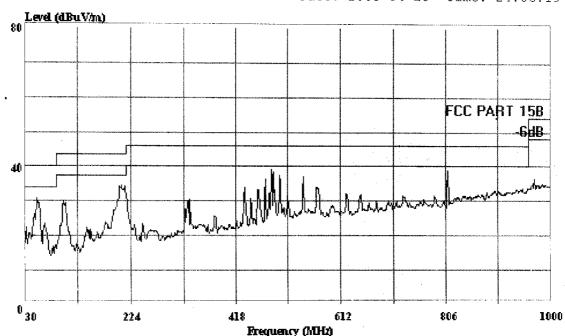
Ref Trace:

Tel: 0755-26639495~7

(SHENZHEN) CO., LTD. Fax: 0755-26632877

Data#: 26 File#: Vision.EMI

Date: 2003-04-28 Time: 24:06:19



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

Trace:

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

M/N : Controller: 2103. Receiver: 2176

Power : Host 230V/50Hz DC 4.8V

Test Engineer: Sean Xing

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

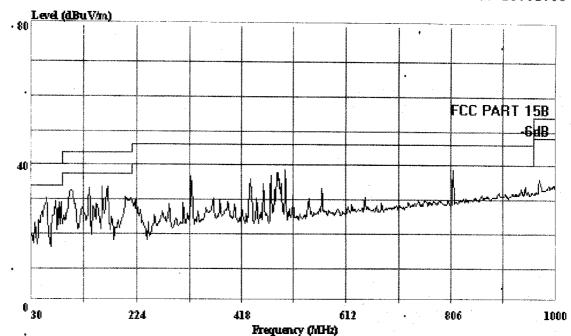
Memo : Running



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

IDIA FECHNOLOGY (SHENZHEN) CO., LTD.

Data#: 17 File#: Vision.EMI Date: 2003-04-28 Time: 23:01:05



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

Trace: Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL EUT : GAMECUBE 2.4G RF Wireless Controller M/N : Controller: G5090. Receiver: 2178

Power : Host 230V/50Hz DC 3V

Test Engineer: Sean Xing

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

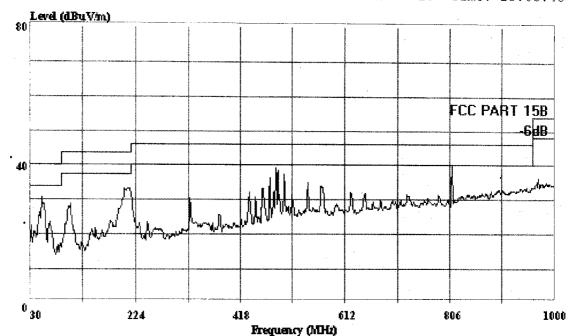
Memo : Running



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

JUGY (SHENZHEN) CO., LTD.

Data#: 18 File#: Vision.EMI Date: 2003-04-28 Time: 23:05:43



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

Trace: Ref Trace:

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

M/N : Controller: G5090. Receiver: 2178
Power : Host 230V/50Hz DC 3V

Test Engineer: Sean Xing

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

Memo : Running

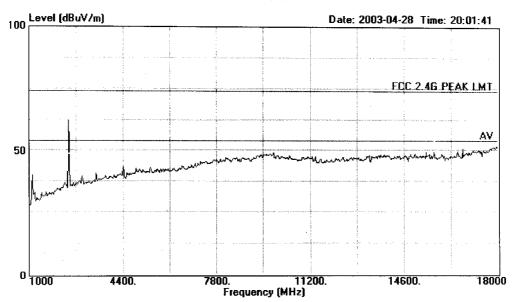


信華科技(深圳)有限公司 AUDIX Technology (Shenzhen) Cc.,Ltd.

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Data#: 31

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



Site

: 1# Chamber

Condition

: FCC 2.4G PEAK LMT 3m 3115FACTOR HORIZONTAL

: GAMECUBE 2.4G RF Wireless Controller

: Receiver 2176 M/NPower : Host 230V/50Hz

Test Engineer : Sean Xing



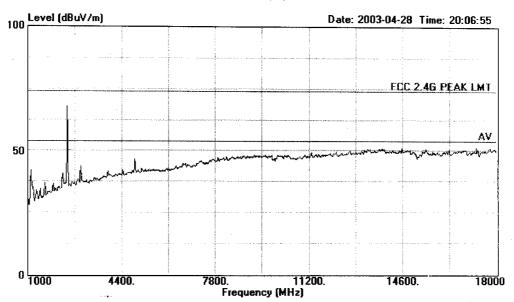
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Data#: 33

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



Site

: 1# Chamber

Condition

: FCC 2.4G PEAK LMT 3m 3115FACTOR VERTICAL

EUT

: GAMECUBE 2.4G RF Wireless Controller

M/N : Receiver 2176 Power

: Host 230V/50Hz Test Engineer : Sean Xing

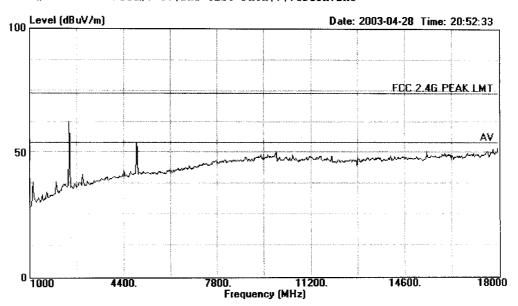


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Data#: 45 File#: C:\EMI TEST DATA\V\Vision.EMI



Site

: 1# Chamber

: FCC 2.4G PEAK LMT 3m 3115FACTOR HORIZONTAL

EUT

: GAMECUBE 2.4G RF Wireless Controller

M/NPower : Receiver 2178

Test Engineer : Sean Xing

: Host 230V/50Hz



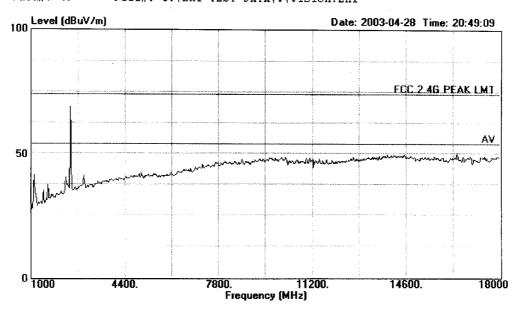
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Data#: 43

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



Site

: 1# Chamber

Condition

: FCC 2.4G PEAK LMT 3m 3115FACTOR VERTICAL

EUT

: GAMECUBE 2.4G RF Wireless Controller

M/NPower : Receiver 2178

: Host 230V/50Hz

Test Engineer : Sean King