

APPLICATION FOR CERTIFICATION
On Behalf of

Electro Source LLC.

Game Light Gun

Model Number: PL-667

Prepared for : Electro Source LLC.
1840 East 27th Street Vernon CA90058 USA

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Ke Feng Rd., 52 Block,
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Report Number : ACS-F04253
Date of Test : Aug.11~16, 2004
Date of Report : Aug. 18, 2004

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APPENDIX I (13 pages)

TEST REPORT DECLARATION

Applicant : Electro Source LLC.
 Manufacturer : Hong Xiang Electronics Co., Ltd.
 EUT Description : Game Light Gun
 (A) MODEL NO. : PL-667
 (B) SERIAL NO. : F2004081801
 (C) POWER SUPPLY : DC 3V

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 : Aug.11~16, 2004

Prepared by :

Elsa Wu

Elsa Wu / Assistant

Reviewer :

Lake Wang

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	:	Game Light Gun This report is about transmitter FCC ID and the Receiver FCC DOC report please refer to AUDIX Number ACS-F04254
Modulation Technique	:	DSSS
Range With -5dBi antenna	:	>10m (~33ft) indoor
Model Number	:	PL-667
Applicant	:	Electro Source LLC. 1840 East 27th Street Vernon CA90058 USA
Manufacturer	:	Hong Xiang Electronics Co., Ltd. No.52, Sang Nan Rd., Sang Jao Chang An Town, Dong Guan City Guang Dong P.R.C.
Date of Test	:	Aug.11~16, 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
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. Test 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 15.107, 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	8591EM	3628A00914	May 24, 04	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS10	834468/011	May 24, 04	1 Year
3.	Amplifier	HP	8447D	2944A07794	Mar. 17, 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

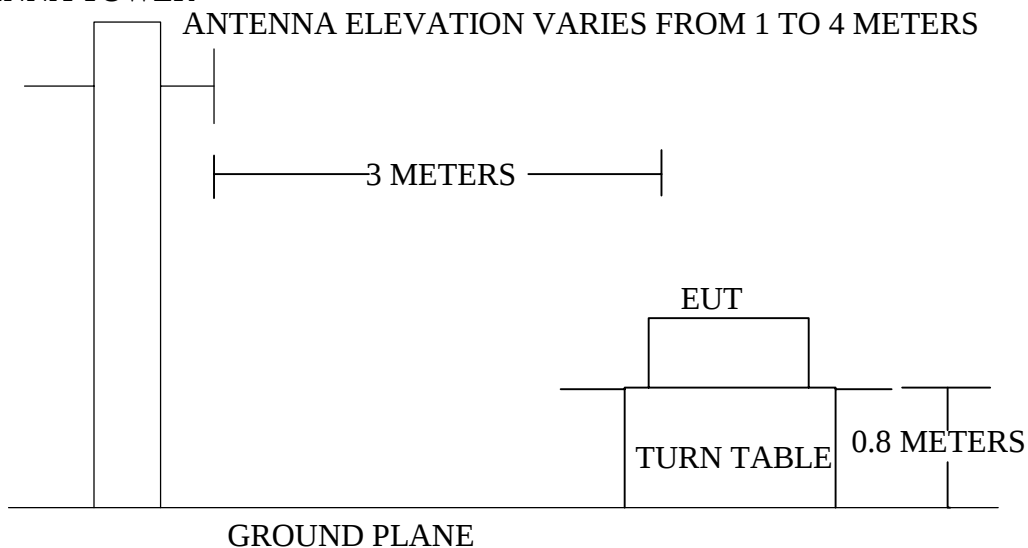
3.2.1. Block diagram of connection between the EUT and simulators

EUT

(EUT: Game Light Gun)

3.2.2. In Anechoic Chamber

ANTENNA TOWER



3.3. Radiated Emission Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	Local Oscillator: 114.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 94.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average) Other: 74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

- Remark :
- (1) Emission level $(\text{dB})\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$
 - (2) The smaller limit shall apply at the cross point between two frequency bands.
 - (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

3.4.EUT Configuration on Test

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

3.4.1.Game Light Gun (EUT)

Model Number : PL-667
Serial Number : F2004081801
Manufacturer : Hong Xiang 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 (Tx (CH 1)/Tx (CH 2)) 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 24000MHz is checked.

The test mode (Tx (CH 1)/Tx (CH 2)) 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 24000MHz is investigated.
Please see the following pages.

Date of Test :	Aug.15, 2004	Temperature :	23.6°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 1)
Test Engineer:	Richzhy		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
36.790	16.63	1.20	14.04	31.87	-8.13	40.00
109.540	11.29	2.09	18.76	32.14	-11.36	43.50
288.990	13.17	3.73	19.42	36.32	-9.68	46.00
590.660	18.78	6.08	10.16	35.02	-10.98	46.00
711.910	20.51	6.59	11.35	38.45	-7.55	46.00
882.630	22.02	7.28	10.38	39.68	-6.32	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 :	Aug.15, 2004	Temperature :	23.6°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 1)
Test Engineer:	Richzhy		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Vertical	Vertical	Limits	
	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
35.820	11.34	1.19	19.51	32.04	-7.96	40.00
48.430	7.52	1.34	23.26	32.13	-7.87	40.00
109.540	9.56	2.09	20.11	31.76	-11.74	43.50
590.660	19.00	6.08	12.98	38.06	-7.94	46.00
710.940	21.16	6.50	12.46	40.12	-5.88	46.00
882.630	22.28	7.28	8.61	38.17	-7.83	46.00

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

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

Reviewer: Caife Wang

Date of Test :	Aug.15, 2004	Temperature :	23.6°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 2)
Test Engineer:	Richzhy		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Horizontal	Horizontal	Limits	
	dB/m	dB	dBμV	dBμV/m	dB	dBμV/m
36.790	16.63	1.20	12.92	30.75	-9.25	40.00
109.540	11.29	2.09	19.19	32.57	-10.93	43.50
433.520	16.71	4.89	11.59	33.19	-12.81	46.00
711.910	20.51	6.59	9.99	37.09	-8.91	46.00
848.680	22.00	7.47	7.03	36.49	-9.51	46.00
882.630	22.02	7.28	10.67	39.97	-6.03	46.00

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

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

Reviewer:

Calke Wang

Date of Test :	Aug.15, 2004	Temperature :	23.6°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 2)
Test Engineer:	Richzhy		

Frequency	Antenna	Cable	Meter Reading	Emission Level	Over	Limits
MHz	Factor	Loss	Vertical	Vertical	Limits	
	dB/m	dB	dB μ V	dB μ V/m	dB	dB μ V/m
35.820	11.34	1.19	20.79	33.32	-6.68	40.00
48.430	7.52	1.34	22.91	31.78	-8.22	40.00
109.540	9.56	2.09	19.40	31.05	-12.45	43.50
590.660	19.00	6.08	13.34	38.42	-7.58	46.00
712.880	21.08	6.59	11.54	39.21	-6.79	46.00
737.130	21.14	6.74	11.51	39.39	-6.61	46.00

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

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

Reviewer: Caife Wang

Date of Test :	Aug.15, 2004	Temperature :	23.6°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 1)
Test Engineer:	Richzhy		

Frequency	Probe	Cable	Meter Reading	Emission Level	Over	Limits	Remark
MHz	Factor	Loss	Horizontal	Horizontal	Limits		
	dB	dB	dBμV	dBμV/m	dBμV/m	dBμV/m	
2465.000	28.17	3.25	25.34	56.76	-57.24	114.00	Peak
4930.000	33.13	4.71	18.22	56.06	-17.94	74.00	Peak
2465.000	28.17	3.25	20.34	51.76	-42.24	94.00	Average
4930.000	33.13	4.71	9.22	47.06	-6.94	54.00	Average

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

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

Frequency	Probe	Cable	Meter Reading	Emission Level	Over	Limits	Remark
MHz	Factor	Loss	Vertical	Vertical	Limits		
	dB	dB	dBμV	dBμV/m	dBμV/m	dBμV/m	
2465.000	28.17	3.25	27.14	58.56	-55.44	114.00	Peak
4930.000	33.13	4.71	17.40	55.24	-18.76	74.00	Peak
2465.000	28.17	3.25	23.14	54.56	-39.44	94.00	Average
4930.000	33.13	4.71	9.40	47.24	-6.76	54.00	Average

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

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

Reviewer: Cake Wang

Date of Test :	Aug.11, 2004	Temperature :	24°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 2)
Test Engineer:	Richzhy		

Frequency	Probe	Cable	Meter Reading	Emission Level	Over	Limits	Remark
MHz	Factor	Loss	Horizontal	Horizontal	Limits		
	dB	dB	dBμV	dBμV/m	dBμV/m	dBμV/m	
2472.600	28.20	3.26	21.88	53.34	-60.66	114.00	Peak
4945.200	33.15	4.72	18.11	55.98	-18.02	74.00	Peak
2472.600	28.20	3.26	18.88	50.34	-43.66	94.00	Average
4945.200	33.15	4.72	10.11	47.98	-6.02	54.00	Average

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

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

Frequency	Probe	Cable	Meter Reading	Emission Level	Over	Limits	Remark
MHz	Factor	Loss	Vertical	Vertical	Limits		
	dB	dB	dBμV	dBμV/m	dBμV/m	dBμV/m	
2472.600	28.20	3.26	27.80	59.6	-43.74	114.00	Peak
4945.200	33.15	4.72	16.64	54.51	-6.49	74.00	Peak
2472.600	28.20	3.26	18.80	50.26	-54.74	94.00	Average
4945.200	33.15	4.72	9.64	47.51	-19.49	54.00	Average

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

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

Reviewer: Cake Wang



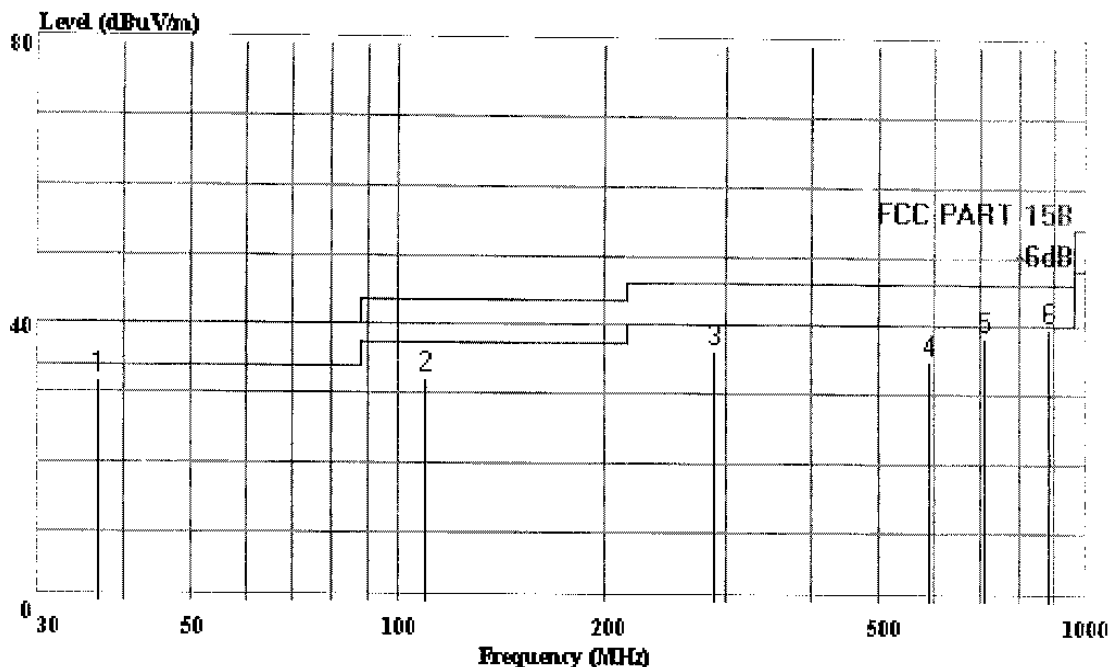
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 14 File#: Electro Source.EMI Date: 2004-08-15 Time: 18:15:57



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : Game Ligh Gun

M/N : PL-667

Power : DC 3V

Engineer: Richzhv

Comment : Temp:23.6°C Humi:56%

Memo : Tx (CH 1)

: 110cm 180deg

Page: 1

	Freq	Level	Over Limit	Limit	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	36.790	31.87	-8.13	40.00	14.04	16.63	1.20
2	109.540	32.14	-11.36	43.50	18.76	11.29	2.09
3	288.990	36.32	-9.68	46.00	19.42	13.17	3.73
4	590.660	35.02	-10.98	46.00	10.16	18.78	6.08
5	711.910	38.45	-7.55	46.00	11.35	20.51	6.59
6	882.630	39.68	-6.32	46.00	10.38	22.02	7.28



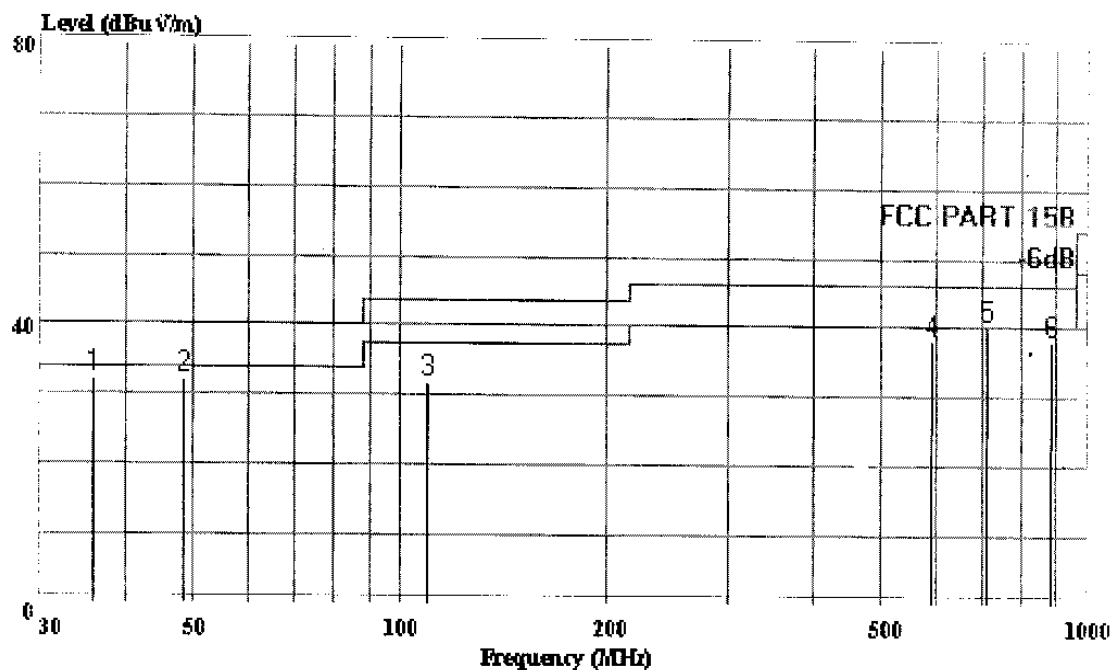
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 13 File#: Electro Source.EMIDate: 2004-08-15 Time: 18:15:25



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

RUT : Game Ligh Gun

M/N : PL-667

Power : DC 3V

Engineer: Richzhv

Comment : Temp:23.6°C Humi:56%

Memo : Tx (CH 1)

: 120cm 0deg

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	35.820	32.04	-7.96	40.00	19.51	11.34	1.19
2	48.430	32.13	-7.87	40.00	23.26	7.52	1.34
3	109.540	31.76	-11.74	43.50	20.11	9.56	2.09
4	590.660	38.06	-7.94	46.00	12.98	19.00	6.08
5	710.940	40.12	-5.88	46.00	12.46	21.16	6.50
6	882.630	38.17	-7.83	46.00	8.61	22.28	7.28



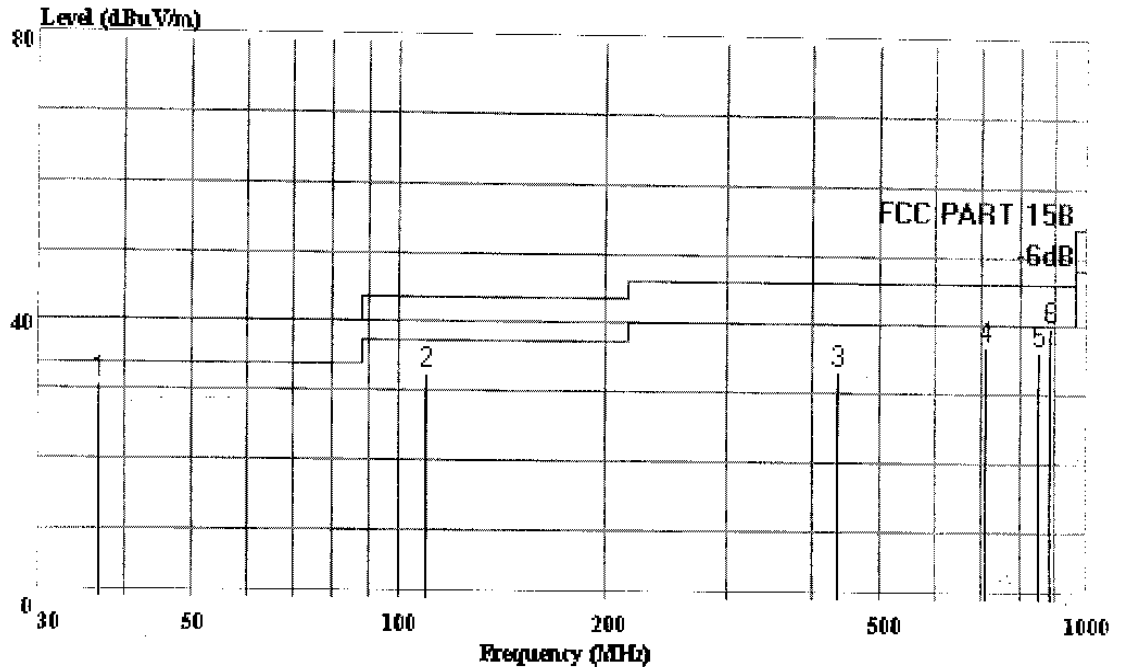
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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Fax: 0755-26632877

Data#: 15 File#: Electro Source.EMIDate: 2004-08-15 Time: 18:16:22



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : Game Ligh Gun

M/N : PT-667

Power : DC 3V

Engineer: Richzhv

Comment : Temp:23.6°C Humi:56%

Memo : Tx (CH 2)

: 120cm 180deg

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	36.790	30.75	-9.25	40.00	12.92	16.63	1.20
2	109.540	32.57	-10.93	43.50	19.19	11.29	2.09
3	433.520	33.19	-12.81	46.00	11.59	16.71	4.89
4	711.910	37.09	-8.91	46.00	9.99	20.51	6.59
5	848.680	36.49	-9.51	46.00	7.03	22.00	7.47
6	882.630	39.97	-6.03	46.00	10.67	22.02	7.28



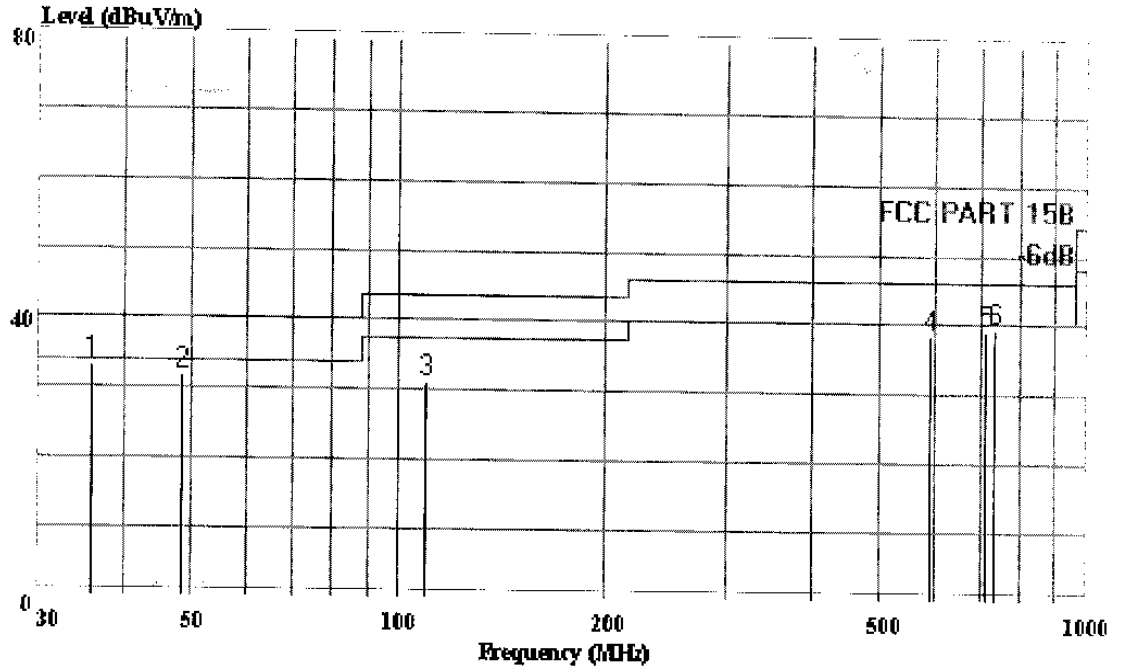
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

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Data#: 16 File#: Electro Source.EMI Date: 2004-08-15 Time: 18:16:53



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : Game Ligh Gun

M/N : PI-667

Power : DC 3V

Engineer: Richzhv

Comment : Temp:23.6°C Humi:56%

Memo : Tx (CH 2)

: 110cm 0deg

Page: 1

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	35.820	33.32	-6.68	40.00	20.79	11.34	1.19
2	48.430	31.78	-8.22	40.00	22.91	7.52	1.34
3	109.540	31.05	-12.45	43.50	19.40	9.56	2.09
4	590.660	38.42	-7.58	46.00	13.34	19.00	6.08
5	712.880	39.21	-6.79	46.00	11.54	21.08	6.59
6	737.130	39.39	-6.61	46.00	11.51	21.14	6.74

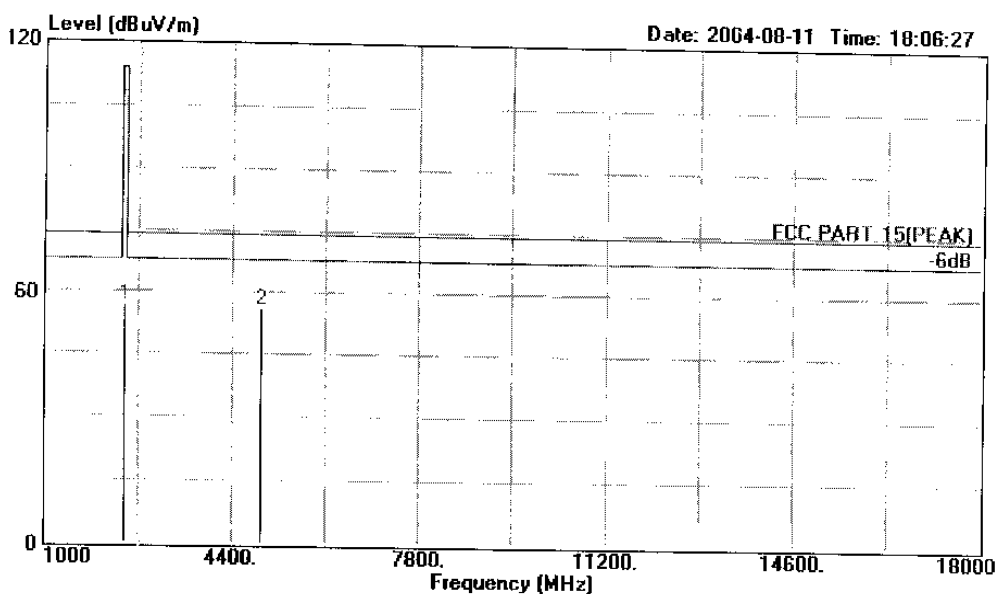


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Data#: 34 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 1)

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2465.000	56.76	-57.24	114.00	25.34	28.17	3.25	Peak
2	4930.000	56.06	-17.94	74.00	18.22	33.13	4.71	Peak

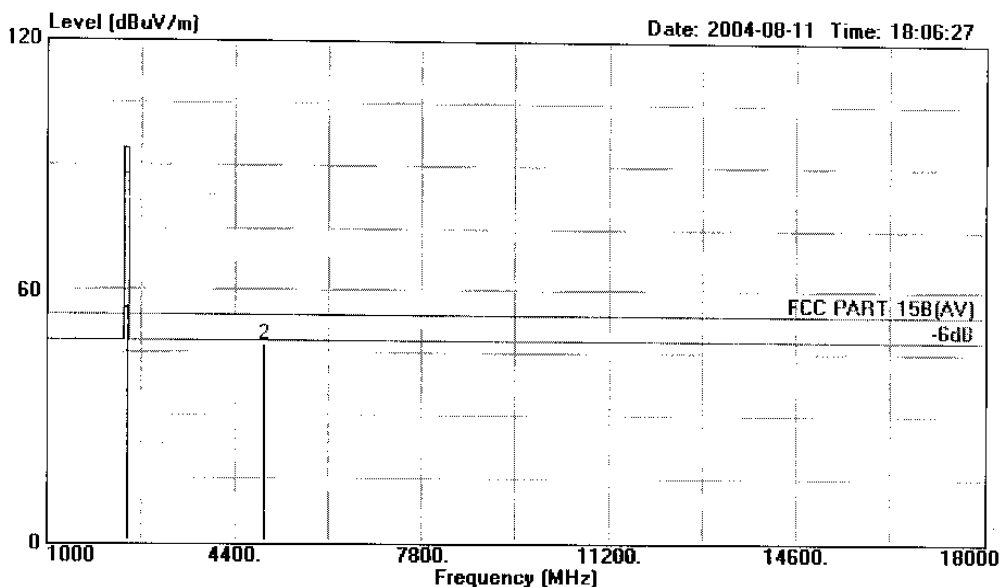


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Data#: 36 File#: C:\EMI TEST DATA\F\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 1)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2465.000	51.76	-42.24	94.00	20.34	28.17	3.25	Average
2	4930.000	47.06	-6.94	54.00	9.22	33.13	4.71	Average

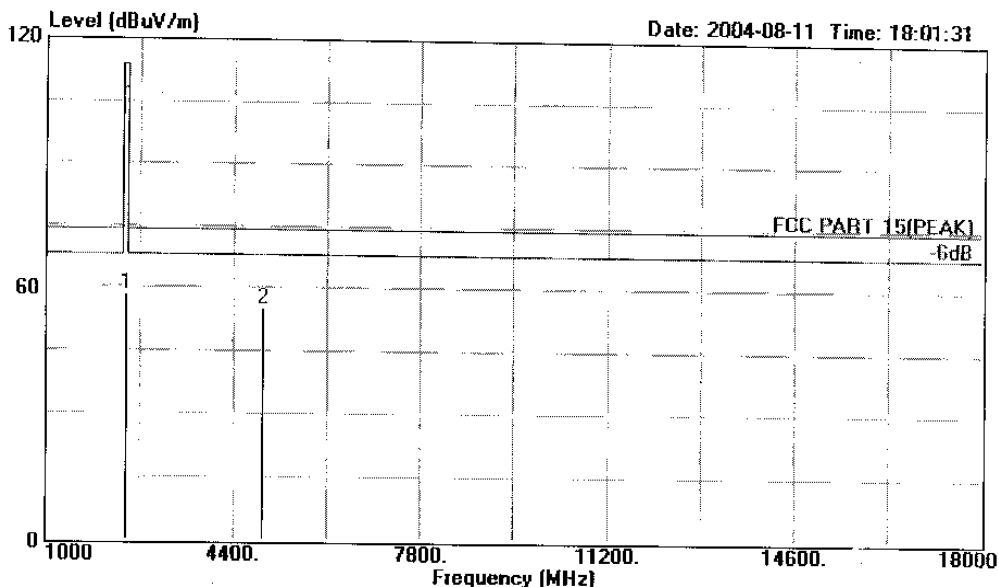


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Data#: 33 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 1)

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2465.000	58.56	-55.44	114.00	27.14	28.17	3.25	Peak
2	4930.000	55.24	-18.76	74.00	17.40	33.13	4.71	Peak

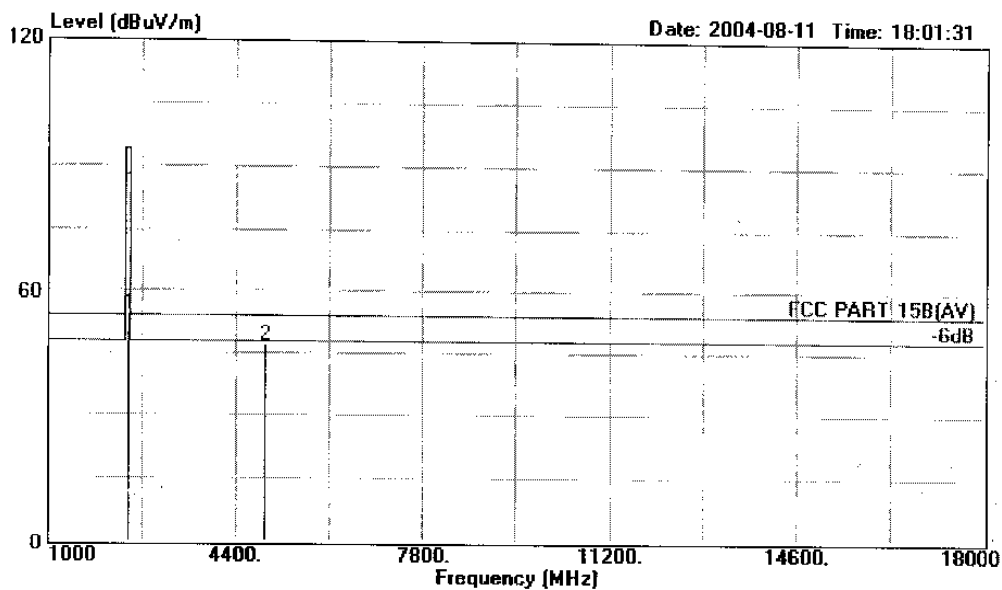


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Data#: 35 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR VERTICAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 1)

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2465.000	54.56	-39.44	94.00	23.14	28.17	3.25	Average
2	4930.000	47.24	-6.76	54.00	9.40	33.13	4.71	Average

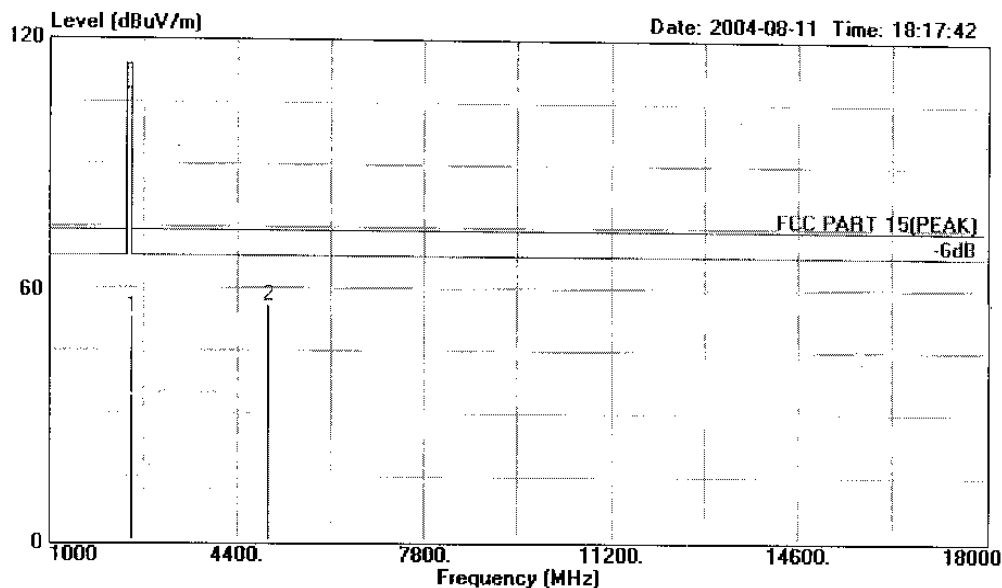


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Data#: 37 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 2)

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2472.600	53.34	-60.66	114.00	21.88	28.20	3.26	Peak
2	4945.200	55.98	-18.02	74.00	18.11	33.15	4.72	Peak

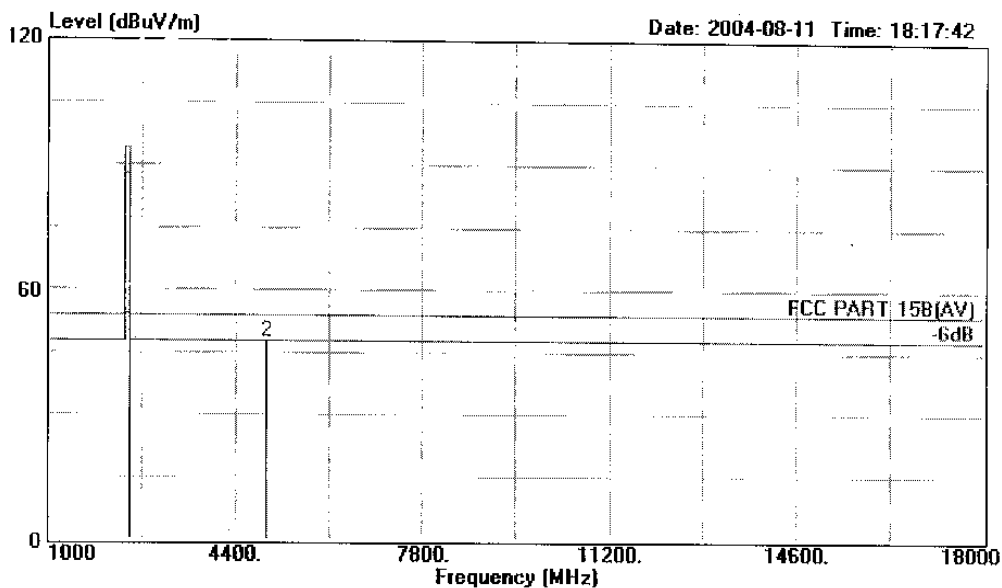


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Data#: 39 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 2)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV/m		dBuV/m	dBuV	dB	dB	
1	2472.600	50.34	-43.66	94.00	18.88	28.20	3.26	Average
2	4945.200	47.98	-6.02	54.00	10.11	33.15	4.72	Average

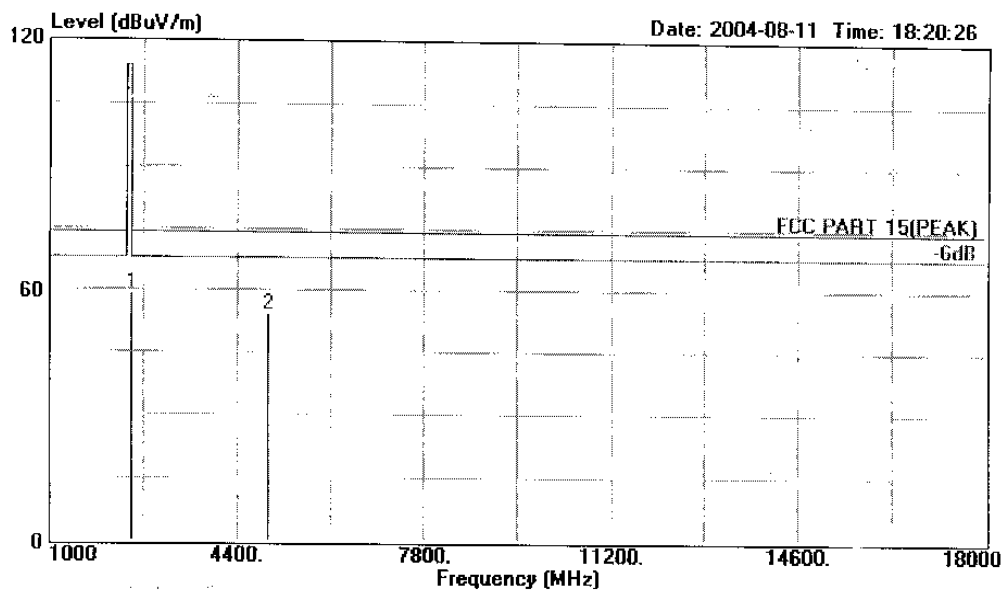


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Data#: 38 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR VERTICAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 2)

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2472.600	59.26	-54.74	114.00	27.80	28.20	3.26	Peak
2	4945.200	54.51	-19.49	74.00	16.64	33.15	4.72	Peak

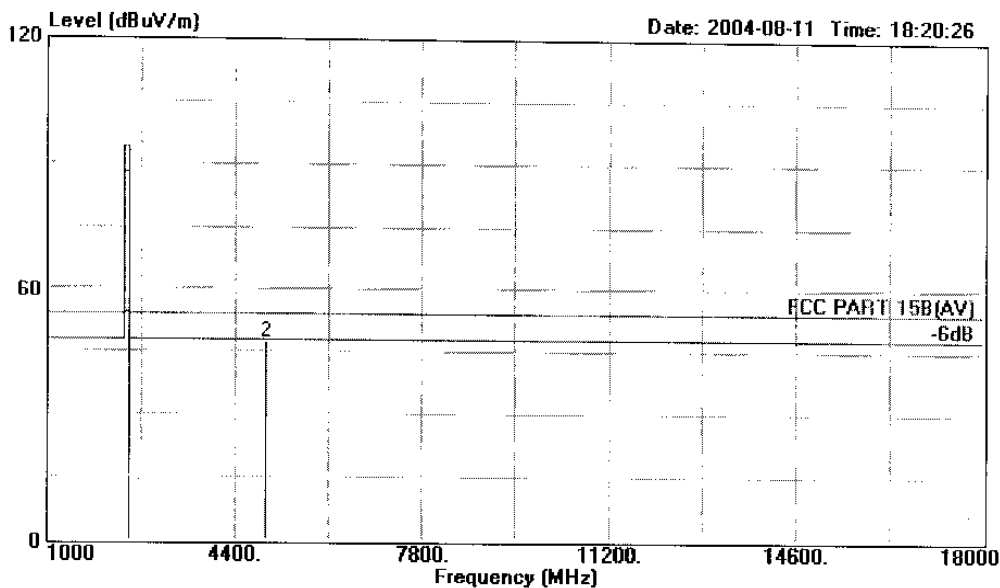


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Data#: 40 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15B(AV) 3m 3115 FACTOR VERTICAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 2)

	Freq	Level	Over Limit	Limit Line	Read Level	Probe Factor	Cable Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2472.600	50.26	-43.74	94.00	18.80	28.20	3.26	Average
2	4945.200	47.51	-6.49	54.00	9.64	33.15	4.72	Average

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	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: Game Light Gun)

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 (Tx (CH 1)/Tx (CH 2)) 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 software, let EUT working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Horn antenna is used as receiving antenna.

The bandwidth of the fundamental frequency was measure by spectrum analyzer with 100kHz RBW and 100kHz VBW. The 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 :	Aug.15, 2004	Temperature :	23.6°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 1)/
Test Engineer:	Richzhy		Tx (CH 2)

Channel.	Frequency	6dB Bandwidth
1	2464.800MHz	890KHz
2	2742.400MHz	900KHz

Reviewer: Cahe Wang

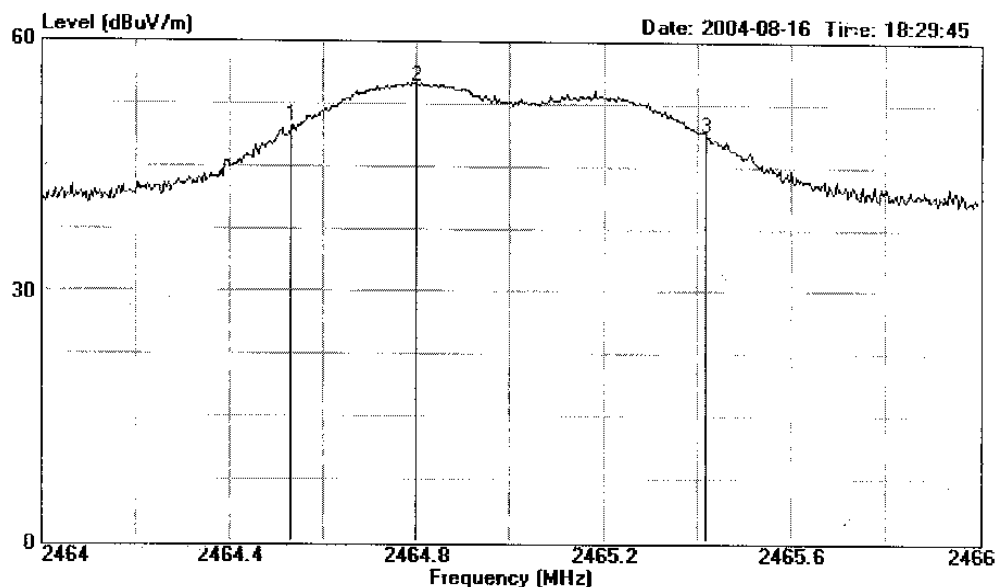


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Data#: 58 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 1)

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2464.530	49.78	-64.22	114.00	18.36	28.17	3.25	Peak
2	2464.800	54.79	-59.21	114.00	23.37	28.17	3.25	Peak
3	2465.420	48.91	-65.09	114.00	17.49	28.17	3.25	Peak

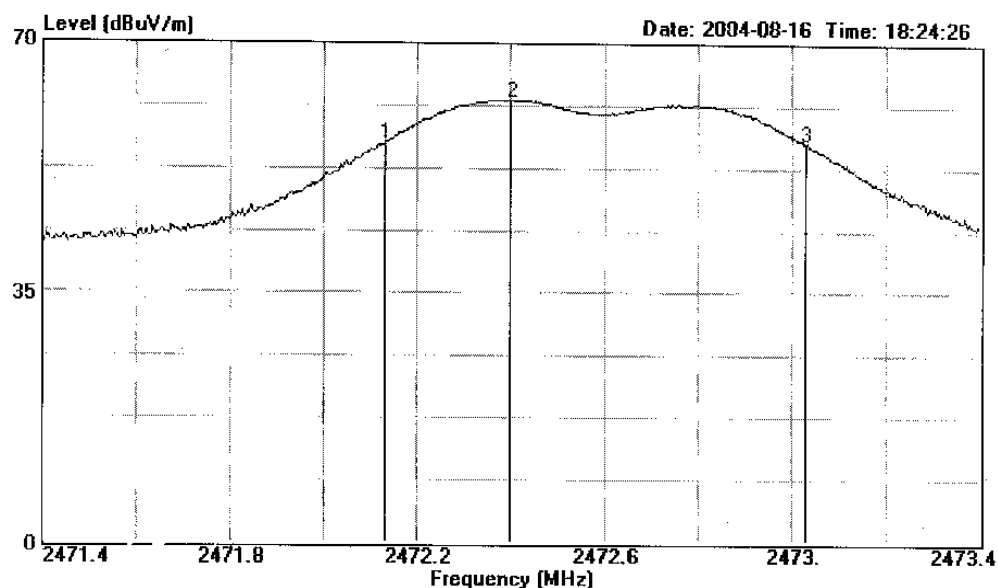


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Data#: 57 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15 (PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp: 24°C Humi: 56%
Memo : Tx (CH 2)

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2472.130	56.03	-57.97	114.00	24.57	28.20	3.26	Peak
2	2472.100	61.99	-52.01	114.00	30.53	28.20	3.26	Peak
3	2473.030	56.09	-57.91	114.00	24.63	28.20	3.26	Peak

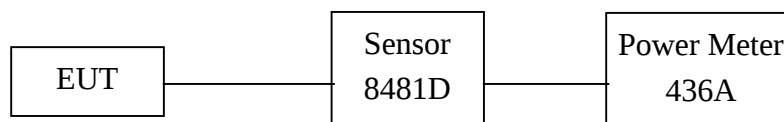
5. PEAK OUTPUT POWER MEASUREMENT

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	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

5.2. Block Diagram of Test Setup



(EUT: Game Light Gun)

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 (Tx (CH 1)/Tx (CH 2)) 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 :	Aug.15, 2004	Temperature :	23.6°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 1)
Test Engineer:	Richzhy		

Frequency	Reading dBμV	Cable Loss dBm	Poer Density dBm	Limit dBm
2464.800MHz	-21.57	0.2	-21.37	30.00

Date of Test :	Aug.15, 2004	Temperature :	23.6°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 2)
Test Engineer:	Richzhy		

Frequency	Reading dBμV	Cable Loss dBm	Poer Density dBm	Limit dBm
2472.400MHz	-21.46	0.2	-21.26	30.00

Reviewer: Choke Wang

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	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

6.2. Block Diagram of Test Setup



(EUT: Game Light Gun)

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 (Tx (CH 1)/Tx (CH 2)) 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 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.

6.6. Test Results

PASSED.

The testing data was attached in the next pages.

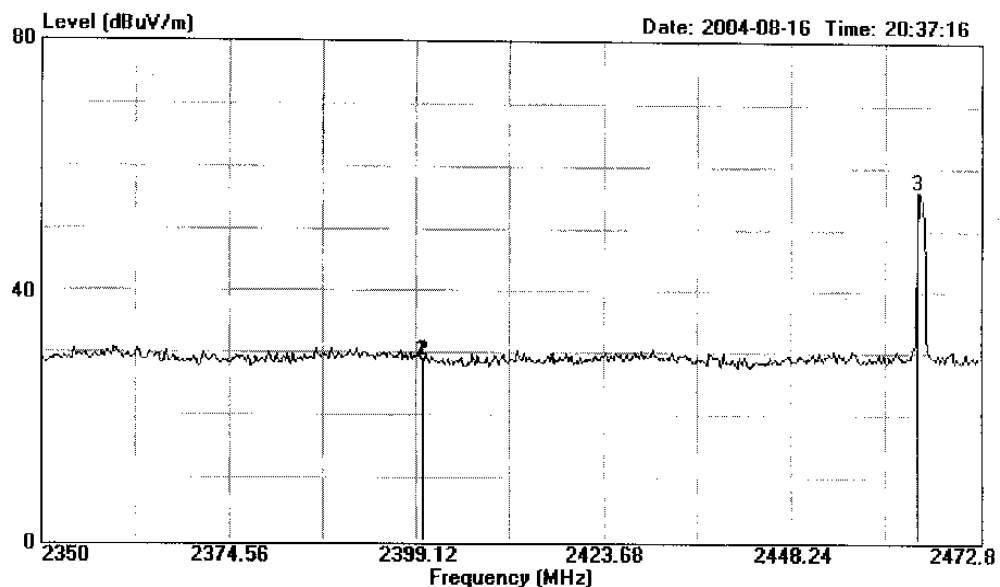


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Data#: 69 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : 3m 3115 FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 1)

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2399.900	28.96	-----	-----	32.68	28.07	3.21	Peak
2	2400.000	28.91	-----	-----	32.63	28.07	3.21	Peak
3	2464.820	56.25	-----	-----	59.81	28.19	3.25	Peak

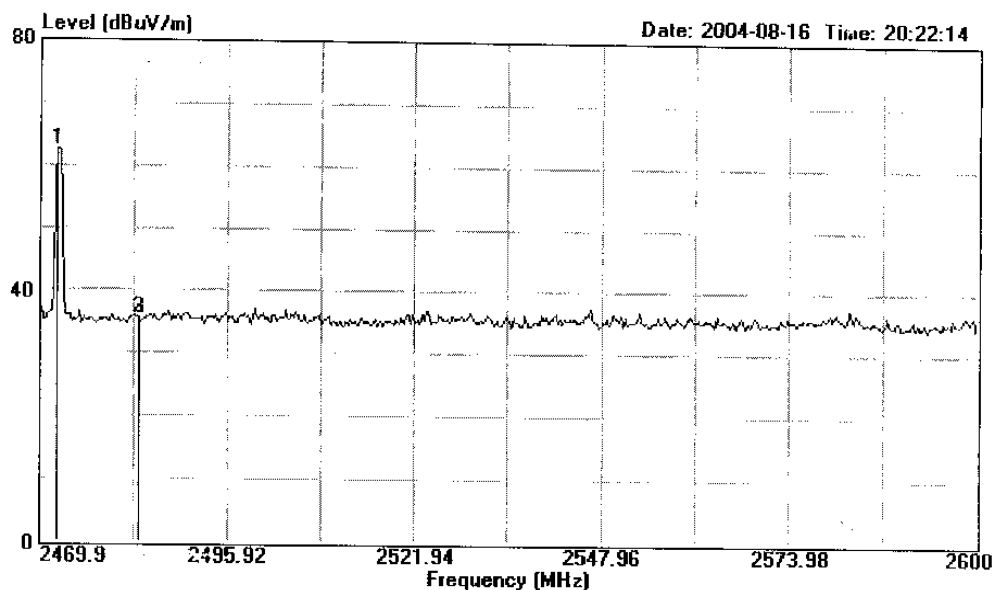


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Data#: 68 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : 3m 3115 FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 2)

			Over	Limit	Read	Probe	Cable	
	Freq	Level	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	
1	2472.370	62.76	-----	-----	31.29	28.21	3.26	Peak
2	2483.500	35.75	-----	-----	4.25	28.23	3.27	Peak
3	2483.600	35.75	-----	-----	4.25	28.23	3.27	Peak

7. POWER SPECTRAL DENSITY 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: Game Light Gun)

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 (Tx (CH 1)/Tx (CH 2)) 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 :	Aug.15, 2004	Temperature :	23.6°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 1)
Test Engineer:	Richzhy		

Frequency	Reading dBμV	Power Density dBm	Limit dBm
2464.7843MHz	49.97	-57.03	8.00

Remark:

Formulas used to calculate Power Density.

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

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

Antenna gain = -5dBi

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

$69.38\text{dB}\mu\text{V} = 0.0029444216\text{V/m}$

$P(\text{Watt}) = (0.0029444216\text{V/m} \times 3\text{m})^2 / 9.6 = 8.1277673 \times 10^{-6}$

$10 * \log 8.1277673 \times 10^{-6} \times 10^3 = -20.9\text{dBm}$

Reviewer:

Cahe Wang

Date of Test :	Aug.15, 2004	Temperature :	23.6°C
EUT :	Game Light Gun	Humidity :	56%
Model No. :	PL-667	Test Mode :	Tx (CH 2)
Test Engineer:	Richzhy		

Frequency	Reading dBμV	Power Density dBm	Limit dBm
2472.3843MHz	47.08	-59.92	8.00

Remark:

Formulas used to calculate Power Density.

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

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

Antenna gain = -5dBi

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

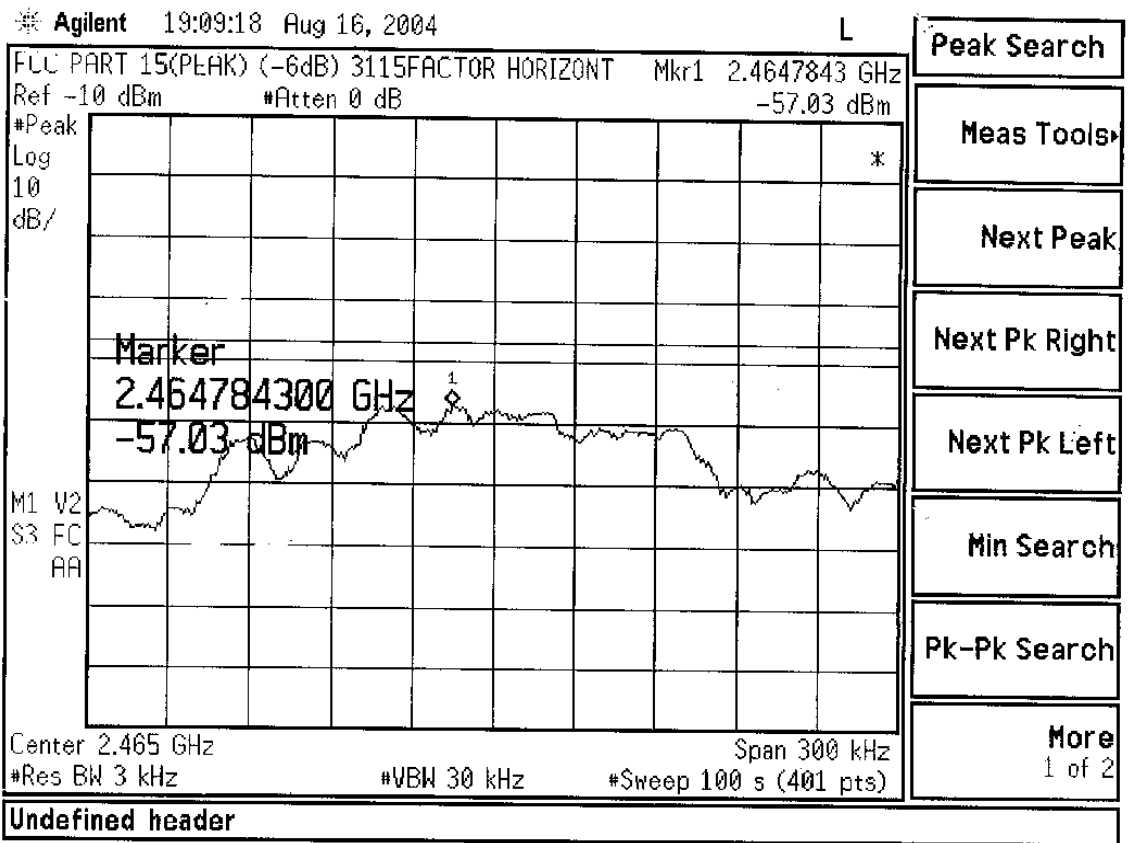
$69.38\text{dB}\mu\text{V} = 0.0029444216\text{V/m}$

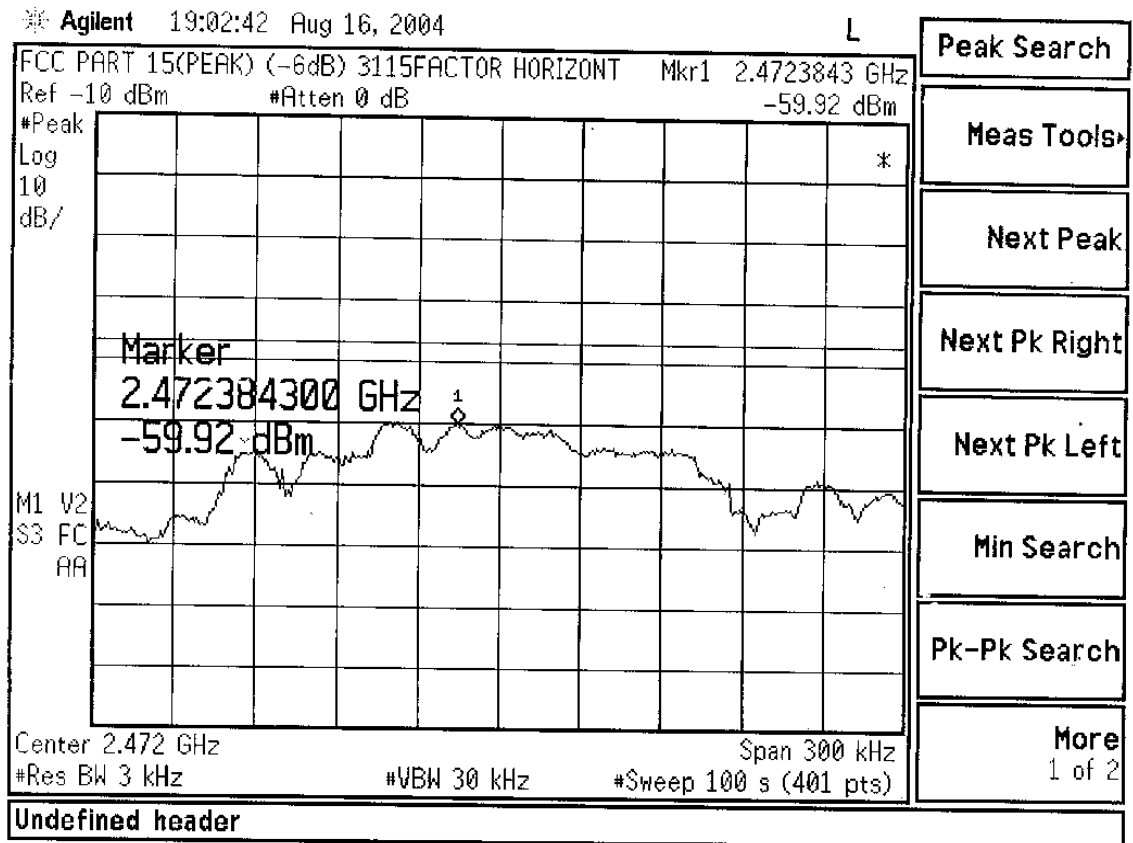
$P(\text{Watt}) = (0.0029444216\text{V/m} \times 3\text{m})^2 / 9.6 = 8.1277673 \times 10^{-6}$

$10 \times \log 8.1277673 \times 10^{-6} \times 10^3 = -20.9\text{dBm}$

Reviewer:

Calke Wang





8. DEVIATION TO TEST SPECIFICATIONS

(None.)

APPENDIX I



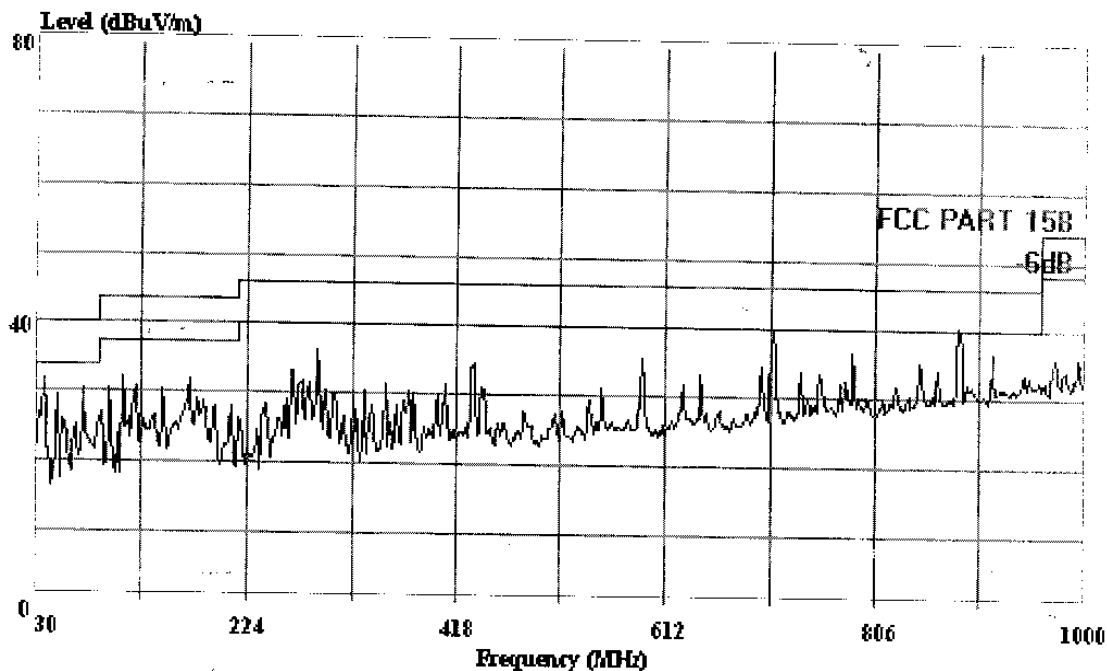
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 2 File#: Electro Source.EMI Date: 2004-08-15 Time: 11:29:06



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

Trace:

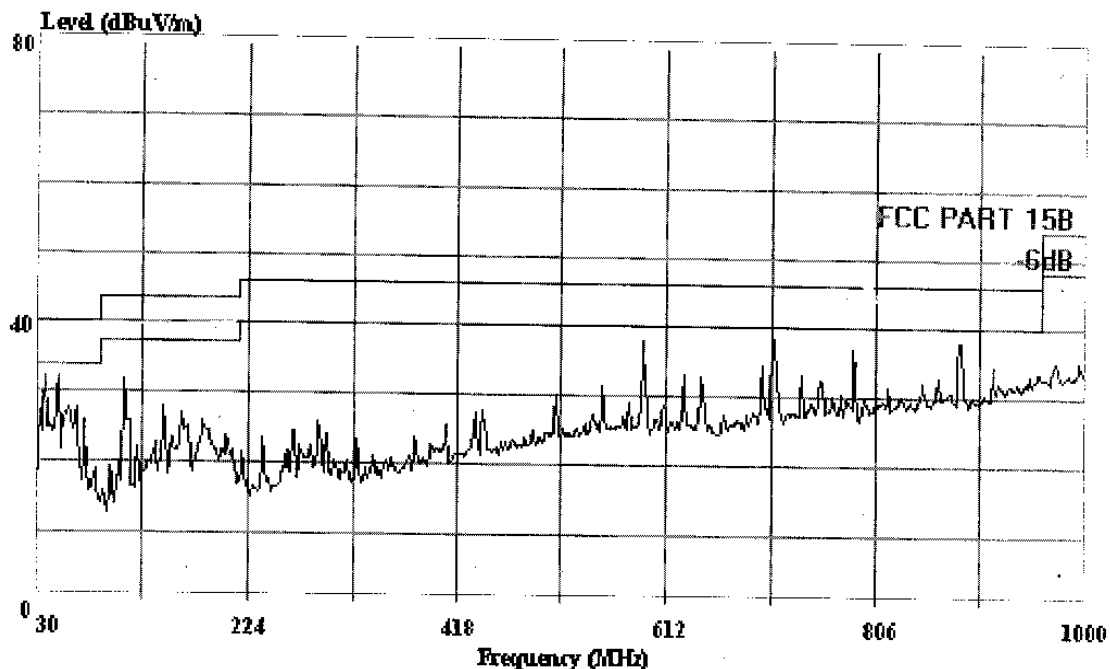
Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL
EUT : Game Ligh Gun
M/N : PL-667
Power : DC 3V
Engineer: Richzhv
Comment : Temp:23.6°C Humi:56%
Memo : Tx (CH 1)

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 Fax: 0755-26632877

Data#: File#: Electro Source.EMIDate: 2004-08-15 Time: 11:27:52



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL
 RUT : Game Ligh Gun
 M/N : PL-667
 Power : DC 3V
 Engineer: Richzhv
 Comment : Temp:23.6°C Humi:56%
 Memo : Tx (CH 1)

AUDIX®

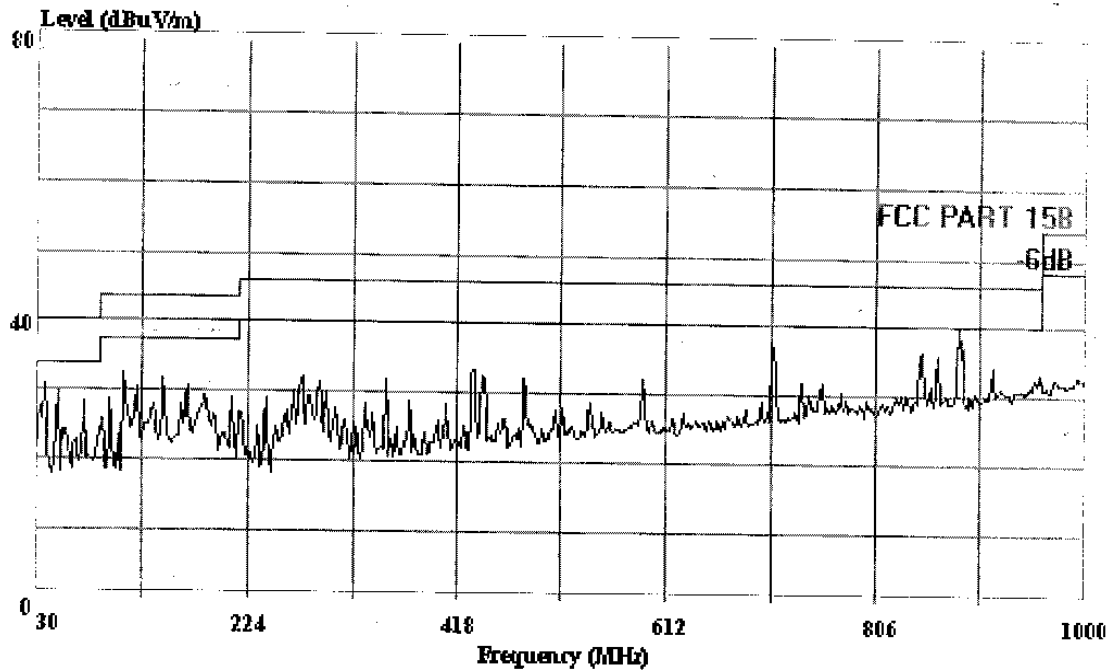
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 3 File#: Electro Source.EMI Date: 2004-08-15 Time: 11:30:27



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR HORIZONTAL

EUT : Game Ligh Gun

M/N : PI-667

Power : DC 3V

Engineer: Richzhv

Comment : Temp:23.6°C Humi:56%

Memo : Tx (CH 2)

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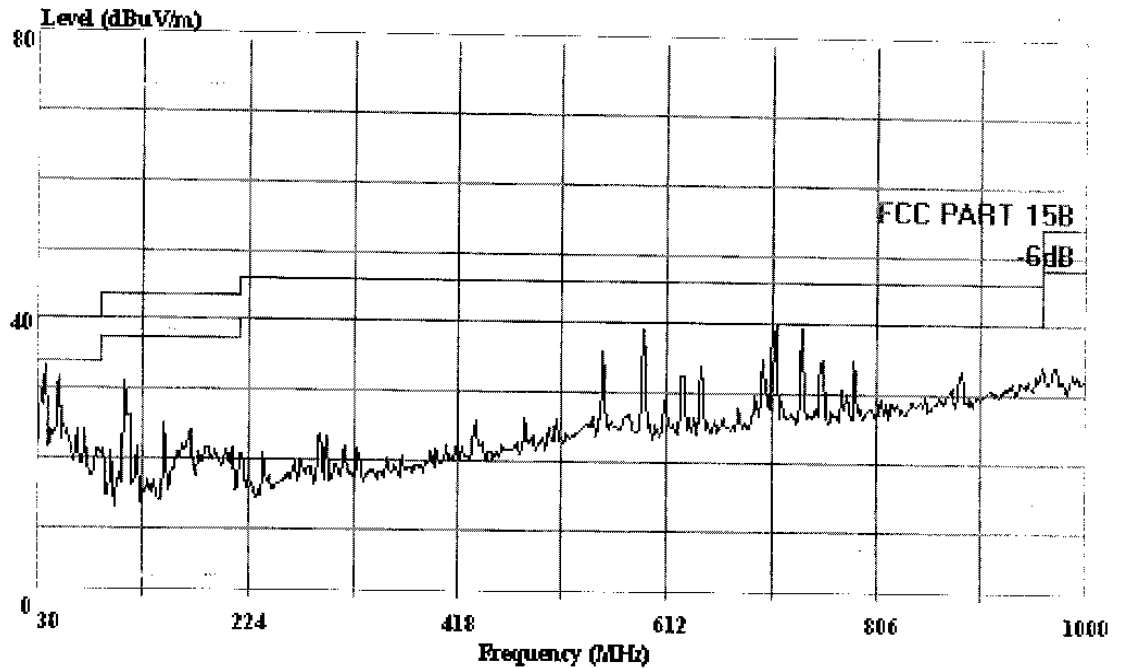
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind. Park

Tel: 0755-26639495~7

Fax: 0755-26632877

Data#: 4 File#: Electro Source.EMIDate: 2004-08-15 Time: 11:31:39



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

Trace:

Ref Trace:

Condition: FCC PART 15B 3m 2598FACTOR VERTICAL

EUT : Game Ligh Gun

M/N : PL-667

Power : DC 3V

Engineer: Richzhv

Comment : Temp:23.6°C Humi:56%

Memo : Tx (CH 2)

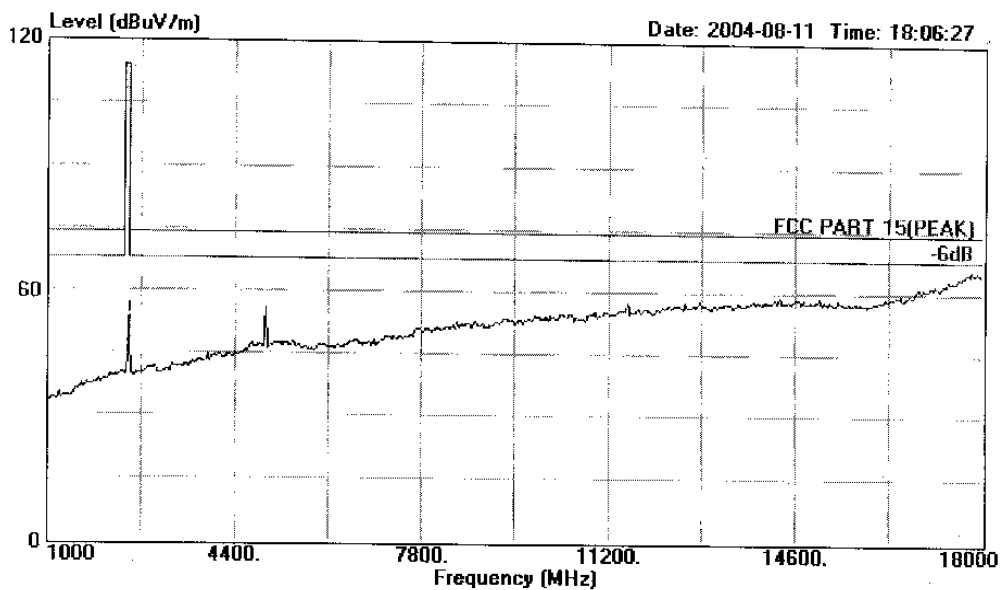


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Data#: 26 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 1)

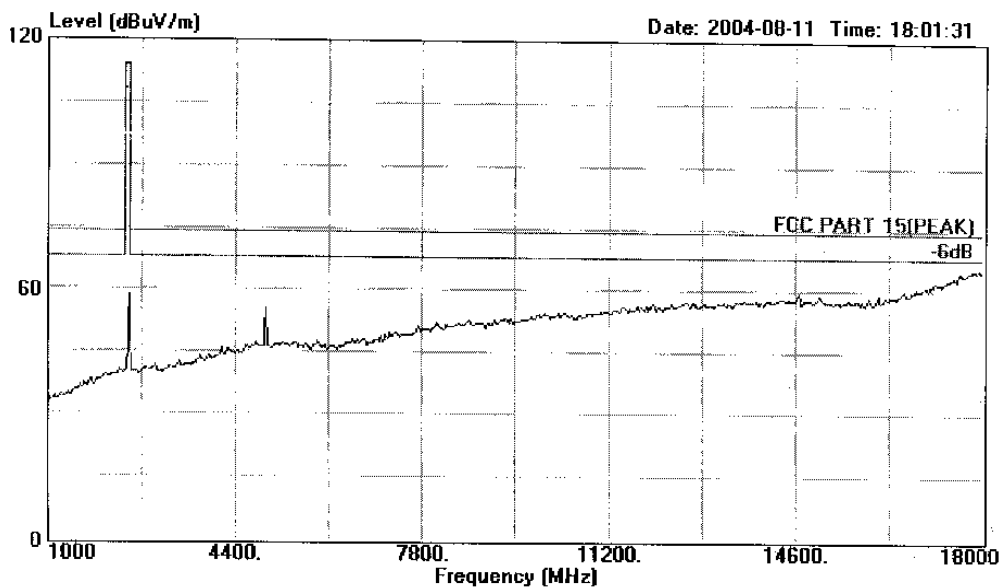


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Data#: 25 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15 (PEAK) 3m 3115 FACTOR VERTICAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 1)

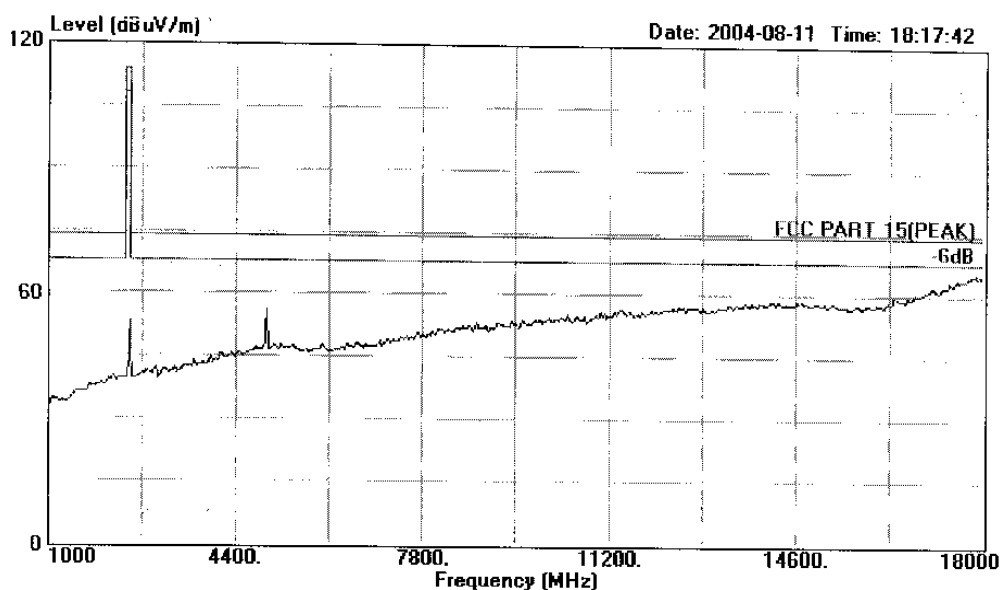


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Data#: 27 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115 FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:24°C Himi:56%
Memo : Tx (CH 2)

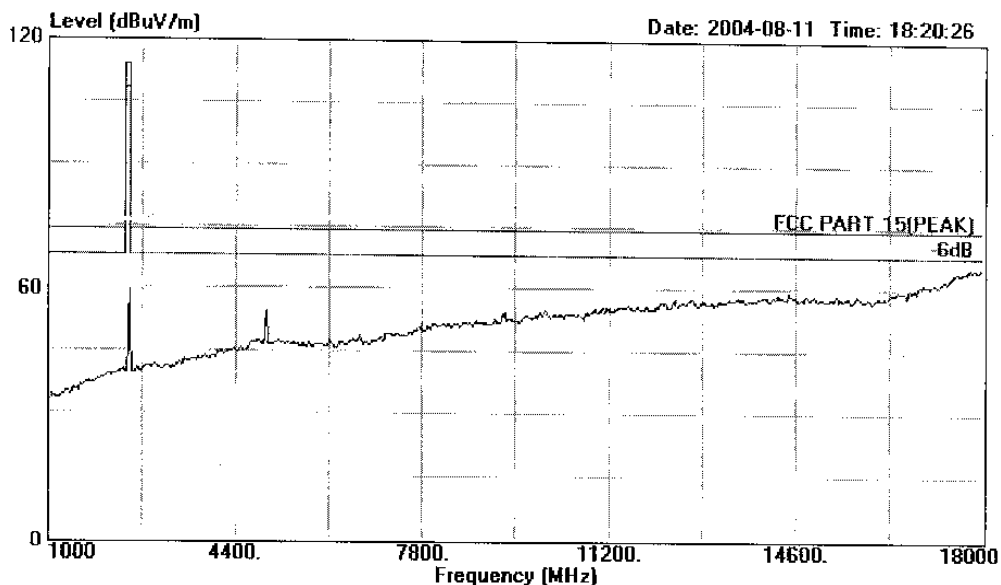


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Data#: 28 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15 (PEAK) 3m 3115 FACTOR VERTICAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp: 24°C Himi: 56%
Memo : Tx (CH 2)

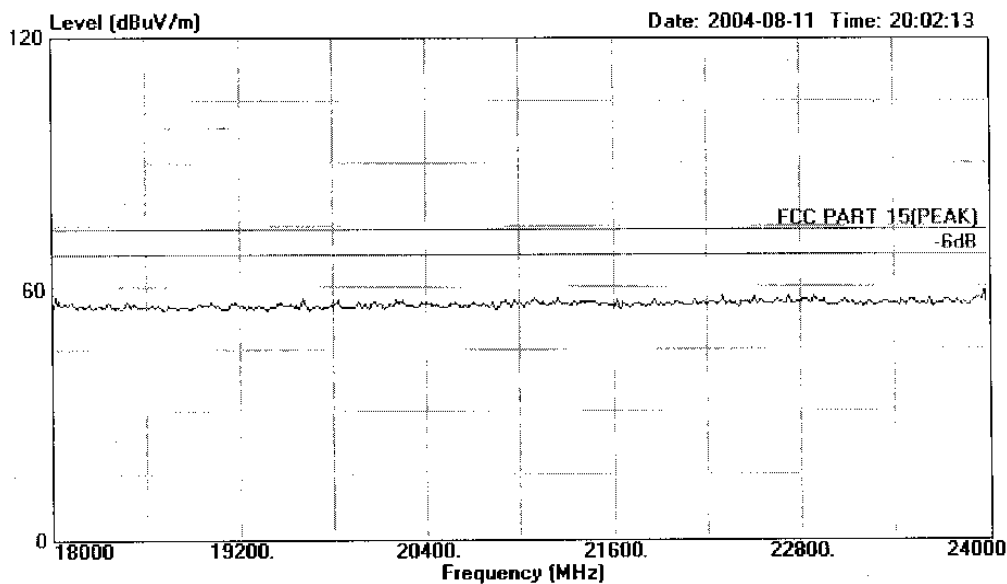


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Data#: 49 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:23°C Humi:54%
Memo : Tx (CH 1)

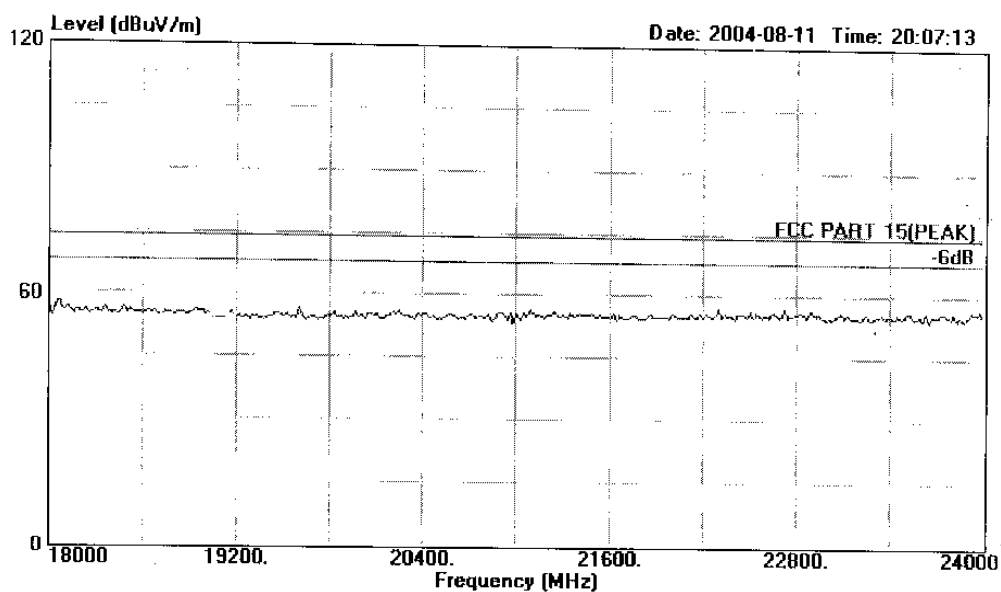


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Tel: +86-755-26639496 Fax: +86-755-26632877

Data#: 50 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:23°C Humi:54%
Memo : Tx(CH 1)

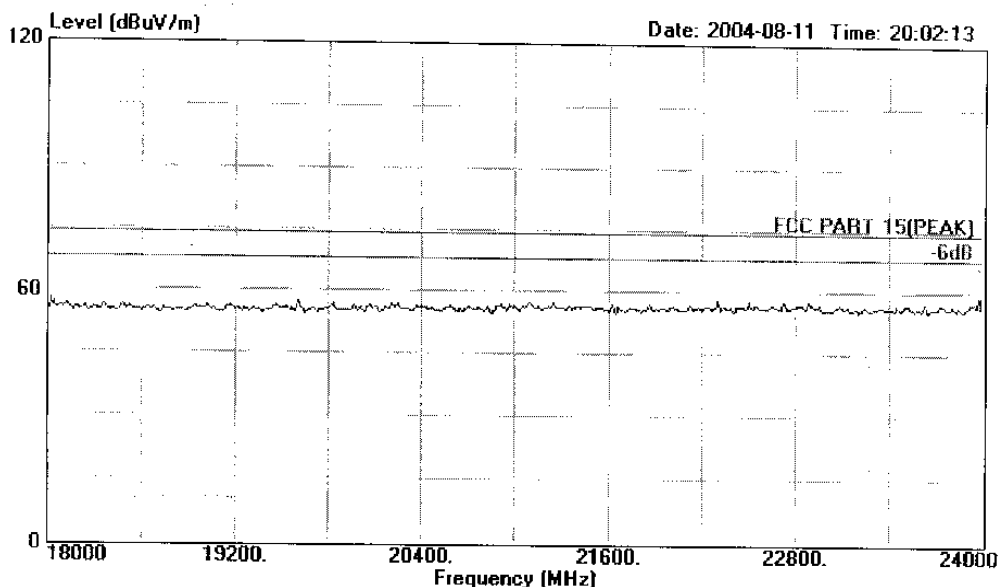


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Data#: 51 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR HORIZONTAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:23°C Humi:54%
Memo : Tx(CH 2)

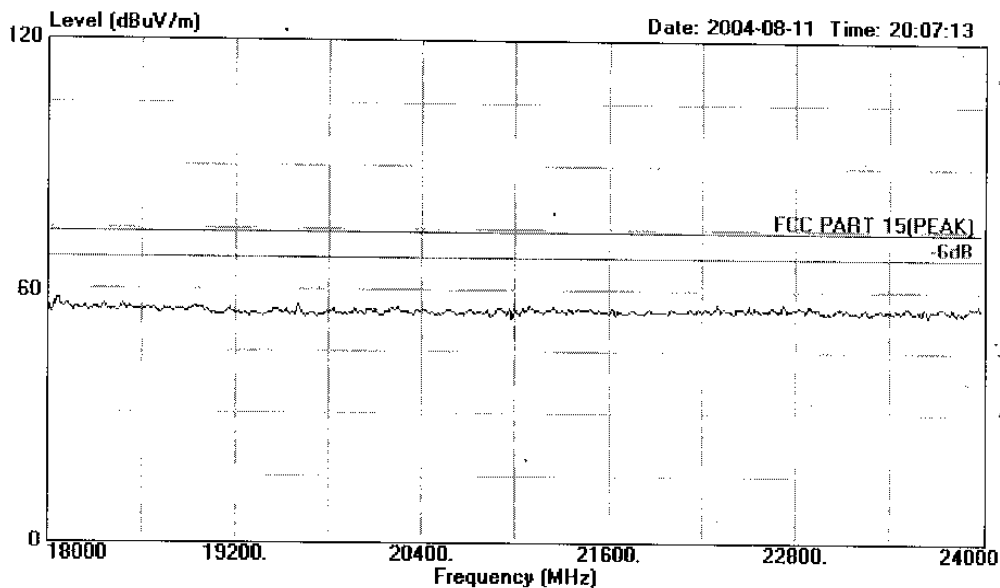


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Data#: 52 File#: C:\EMI TEST DATA\E\Electro Source.EMI



Site : 1# Chamber
Condition : FCC PART 15(PEAK) 3m 3115FACTOR VERTICAL
EUT : Game Light Gun
M/N : PL-667
Power : DC3V
Test Engineer : Richzhy
Test Comment : Temp:23°C Humi:54%
Memo : Tx (CH 2)