

dreamGEAR,LLC

DG-1 SOUND PSP CINEMA 2 GO

Model Number: DGPSP-592

Prepared for : dreamGEAR,LLC
20001S, Western Avenue, Torrance, CA90501, USA

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

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Report Number : ACS-F05371
Date of Test : Dec.19~23,2005
Date of Report : Dec.27,2005

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APPENDIX I

(13 pages)

TEST REPORT DECLARATION

Applicant : dreamGEAR,LLC
Manufacturer : ECORE TECHNOLOGY (CHINA) CO., LTD
EUT Description : DG-1 SOUND PSP CINEMA 2 GO
(A) MODEL NO. : DGPSP-592
(B) SERIAL NO. : F2005122701
(C) POWER SUPPLY : DC 5V

Test Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Sep,2005

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 for 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 tests. Also, this report shows that EUT is technically compliant with 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.

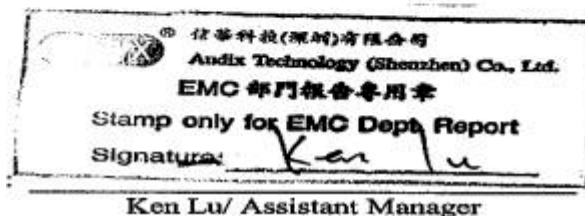
Date of Test : Dec.19~23,2005

Prepared by :

Annie Wu
Annie Wu / Assistant

Reviewer :

Sean Xing
Sean Xing / Deputy Assistant Manager



Approved & Authorized Signer :

Name of the Representative of the Responsible Party : _____

Signature : _____

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Description : DG-1 SOUND PSP CINEMA 2 GO

Model Number : DGPSP-592

Applicant : dreamGEAR,LLC
20001S, Western Avenue, Torrance, CA90501, USA

Manufacturer : ECORE TECHNOLOGY (CHINA) CO., LTD
3rd Building, WeiDongLong Industry, HePing East Road,
Longhua Town, Shenzhen

DC Line : Unshielded, Detachable, 1.5m

Date of Test : Dec.19~23,2005

1.2. Test Facility

Site Description

3m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 90454 Aug. 15, 2003
3m & 10m Anechoic Chamber	:	Certificated by FCC, USA Registration Number: 794232 Mar. 15, 2004
EMC Lab.	:	Certificated by DATech, German Registration Number: DAT-P-091/99-01 Feb. 02, 2004
		Certificated by NVLAP, USA NVLAP Code: 200372-0 Mar. 31, 2004
		Certificated by Nemko, Norway Aut. No.: ELA135 April. 22, 2004
		Certificated by Industry Canada Registration Number: IC 5183 Jul. 28, 2004
Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd.
Site Location	:	No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

1.3. Test Uncertainty

No.	Item	Uncertainty	Remark
1.	Uncertainty for Conducted Emission Test	1.22dB	
2.	Uncertainty for Radiated Emission Test	3.14dB	3m Chamber
3.	Uncertainty for Radiated Emission Test	3.18dB	10m Chamber
4.	Uncertainty for Power Clamp Test	1.38dB	

2. RADIATED EMISSION TEST

2.1. Test Equipment

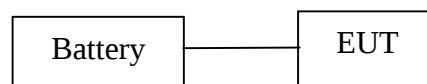
The following test equipments are used during the radiated emission Test :

2.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Spectrum	HP	85422E	3625A00181	May 16, 05	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	May 16, 05	1 Year
3.	Amplifier	HP	8447D	2944A07794	Sep.14, 05	1/2 Year
4.	Bilog Antenna	Schaffner	CBL6111C	2598	Jan. 12, 05	1 Year
5.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Jul. 29, 05	1/2 Year
6.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Jul. 29, 05	1/2 Year
7.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Jul. 29, 05	1/2 Year
8.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Jul. 29, 05	1/2 Year
9.	Coaxial Switch	Anritsu	MP59B	M73989	Jul. 29, 05	1/2 Year

2.2. Block Diagram of Test Setup

2.2.1. Block Diagram of connection between EUT and simulators

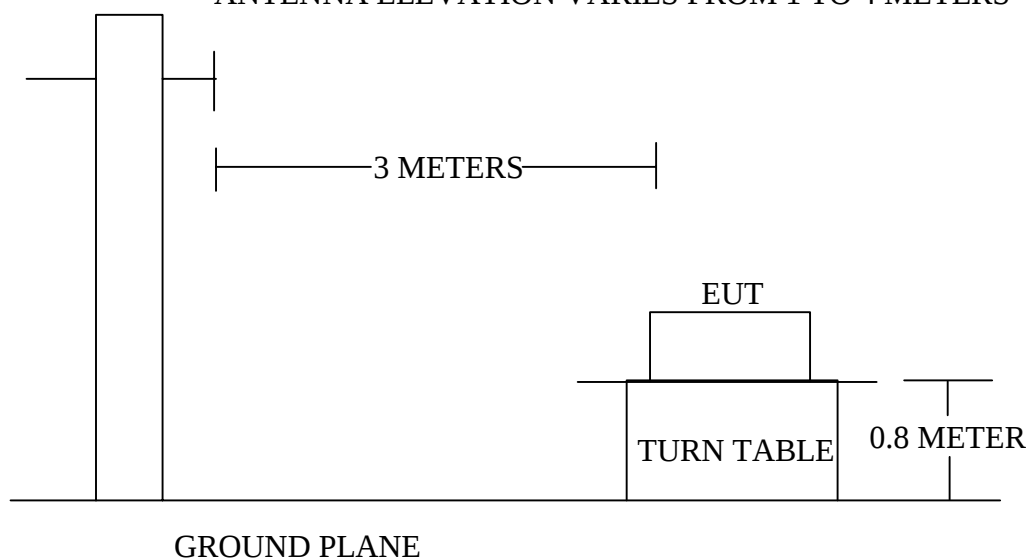


(EUT: DG-1 SOUND PSP CINEMA 2 GO)

2.2.2. Anechoic Chamber Setup Diagram

ANTENNA TOWER

ANTENNA ELEVATION VARIES FROM 1 TO 4 METERS



2.3. Radiated Emission Limit 30~1000MHz

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V}/\text{m}$	$\text{dB}(\mu\text{V})/\text{m}$
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 $\mu\text{V}/\text{m}$
 - (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.

2.4. 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.

2.4.1. DG-1 SOUND PSP CINEMA 2 GO (EUT)

Model Number	:	DGPSP-592
Serial Number	:	F2005122701
Manufacturer	:	ECORE TECHNOLOGY (CHINA) CO., LTD

2.5. Operating Condition of EUT

2.5.1. Setup the EUT as shown in Section 3.2..

2.5.2. Let the EUT work in test modes (TX 88.1MHz/ TX 88.5MHz/ TX 88.9MHz) and test it.

2.6. Test Procedure

The 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. The 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 is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2003 on radiated emission Test.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The frequency range from 30MHz to 1000MHz are checked.

The test modes (FM 88.1MHz/FM 88.5MHz/FM 88.9MHz) is tested in Anechoic Chamber and all the scanning waveforms are attached in Appendix I.

2.7. Radiated Emission Test Results

PASS.

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

Date of Test :	Dec.19,2005	Temperature :	23°C
EUT :	DG-1 SOUND PSP CINEMA 2 GO	Humidity :	54%
Model No. :	DGPSP-592	Test Mode :	TX 88.9MHz
Test Engineer:	Thomax		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Horizontal dBμV	Emission Level Horizontal dBμV/m	Over Limits dB	Limits dBμV/m
88.900	8.92	1.97	33.99	44.88	-3.12	48.00
177.800	9.44	2.86	10.33	22.63	-20.87	43.50
266.700	12.98	3.71	17.55	34.24	-11.76	46.00
355.600	15.48	4.32	14.41	34.21	-11.79	46.00
444.500	16.86	4.96	2.35	24.18	-21.82	46.00
533.400	18.18	5.44	10.62	34.24	-11.76	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 88.90MHz with corrected signal level of 44.88dBμV/m(Limit is 48.00 dBμV/m) when the antenna was at horizontal polarization and at 3.09m high and the turn table was at 49 ° .

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

Reviewer:



Date of Test :	Dec.19,2005	Temperature :	23°C
EUT :	DG-1 SOUND PSP CINEMA 2 GO	Humidity :	54%
Model No. :	DGPSP-592	Test Mode :	TX 88.9MHz
Test Engineer:	Thomax		

Frequency MHz	Antenna Factor dB/m	Cable Loss dB	Meter Reading Vertical dBμV	Emission Level Vertical dBμV/m	Over Limits dB	Limits dBμV/m
88.900	7.60	1.98	35.21	44.79	-3.21	48.00
177.800	7.56	2.93	7.22	17.71	-25.79	43.50
266.700	12.41	3.67	6.03	22.11	-23.89	46.00
355.600	14.14	4.33	8.42	26.98	-19.11	46.00
444.500	16.11	4.92	11.31	32.34	-13.66	46.00
533.400	18.53	5.40	13.99	37.92	-8.08	46.00

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

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

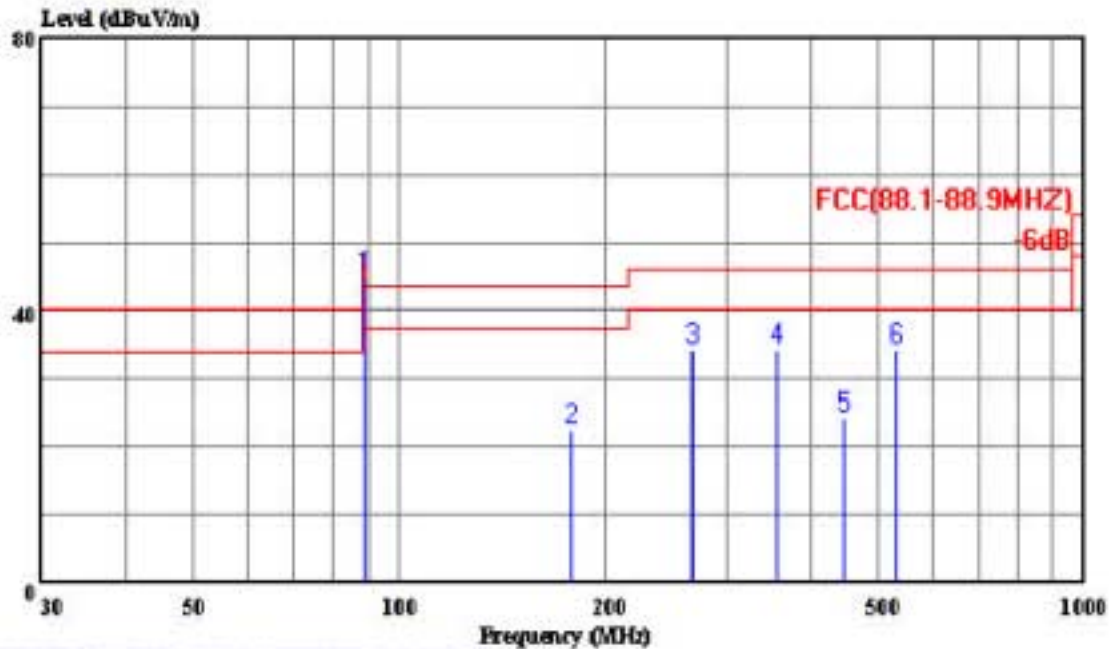
3. The worst emission was detected at 88.900MHz with corrected signal level of 44.79dBμV/m(Limit is 48.00dBμV/m) when the antenna was at vertical polarization and at 2.08m high and the turn table was at 112 ° .

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

Reviewer:



Data#: 19 File#: ACS5Q1128.EMI Date: 2005-12-19 Time: 16:37:44



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

Trace:

Ref Trace:

Condition: FCC{88.1-88.9MHZ} 3m 2598FACTOR HORIZONTAL
 EUT : DG-1 SOUND PSP CINEMA 2 GO
 M/N : DGPSP-592
 OP Condition : TX 88.9MHz
 Test Spec : DC 5V
 Test Engineer: THOMAX
 Comment : Temp:23'C Humi:54%
 Memo : H:3.09m Deg:49'

Page:

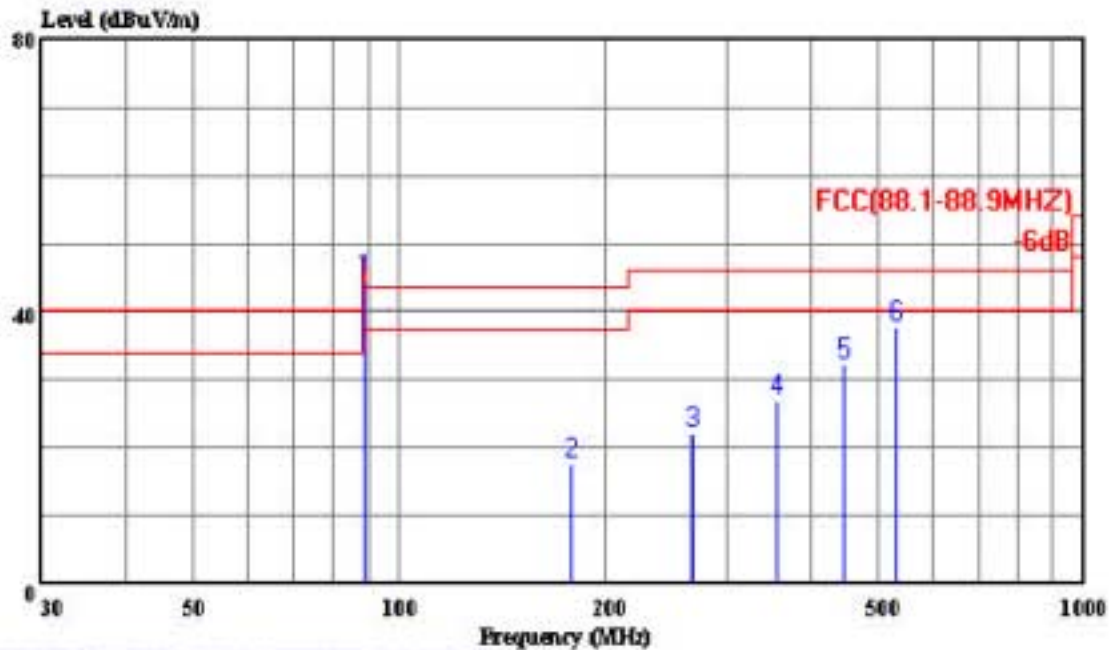
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	MHz	dBuV/m	Limit	Line	Level	Loss	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	88.900	44.88	-3.12	48.00	33.99	1.97	8.92
2	177.800	22.63	-20.87	43.50	10.33	2.86	9.44
3	266.700	34.24	-11.76	46.00	17.55	3.71	12.98
4	355.600	34.21	-11.79	46.00	14.41	4.32	15.48
5	444.500	24.18	-21.82	46.00	2.35	4.96	16.86
6	533.400	34.24	-11.76	46.00	10.62	5.44	18.18



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Data#: 21 File#: ACS5Q1128.EMI Date: 2005-12-19 Time: 16:45:38



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Ref Trace:

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BUT : DG-1 SOUND PSP CINEMA 2 GO
M/N : DGPSP-592
OP Condition : TX 88.9MHz
Test Spec : DC 5V
Test Engineer: THOMAX
Comment : Temp:23'C Humi:54%
Memo : H:2.08m Deg:112'

Page:

	Freq	Level	Over	Limit	Read	Cable	Probe
	MHz	dBuV/m	Limit	Line	Level	Loss	Factor
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB
1	88.900	44.79	-3.21	48.00	35.21	1.98	7.60
2	177.800	17.71	-25.79	43.50	7.22	2.93	7.56
3	266.700	22.11	-23.89	46.00	6.03	3.67	12.41
4	355.600	26.89	-19.11	46.00	8.42	4.33	14.14
5	444.500	32.34	-13.66	46.00	11.31	4.92	16.11
6	533.400	37.92	-8.08	46.00	13.99	5.40	18.53

3. BANDWIDTH TEST

3.1. Test Equipment

The following test equipments are used during the bandwidth test:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4407B	MY41440292	May 16, 05	1 Y
2.	Antenna	EMCO	3115	9607-4877	Dec 15, 05	1.5 Y

3.2. Test Standard

The test completeness FCC 15C (239).

3.3. Bandwidth Limit

200kHz wide centered on the operation frequency.

3.4. Test Procedure

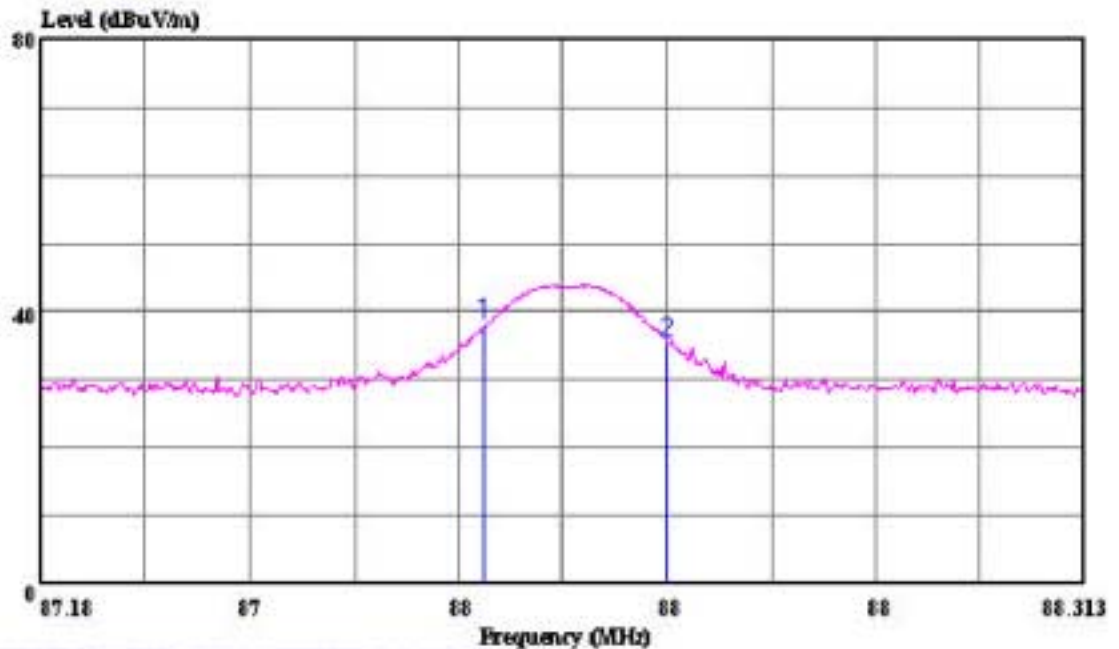
PASS.



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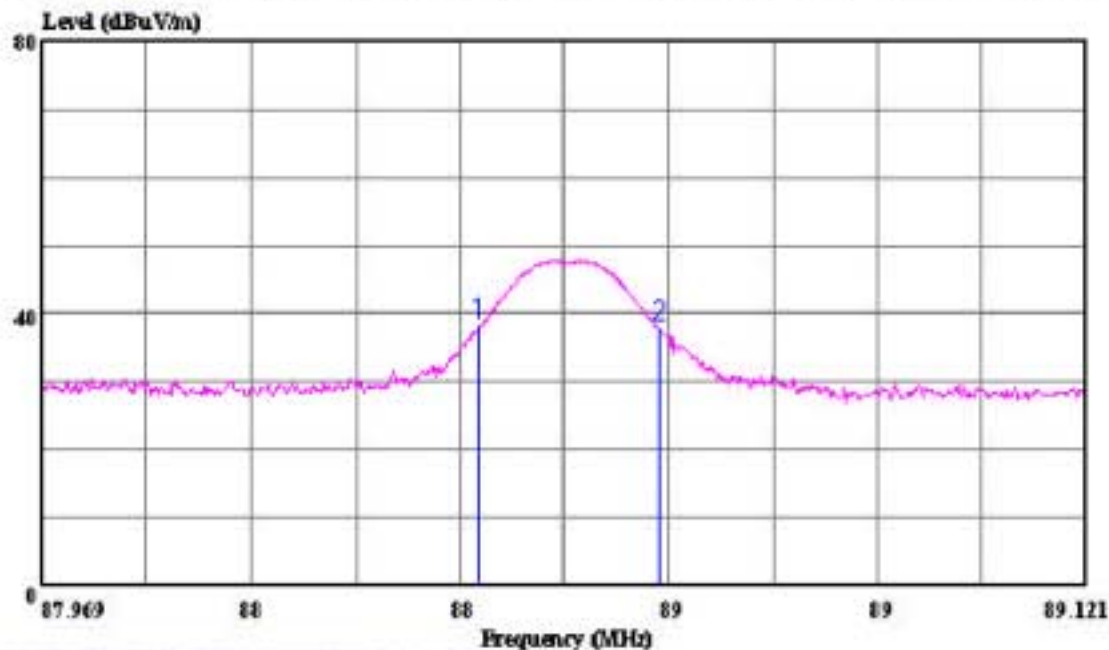
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Condition: 3m
EUT : DG-1 SOUND PSP CINEMA 2 GO
M/N : DGPSP-592
OP Condition : TX 88.1MHz
Test Spec : DC 5V
Test Engineer: THOMAX
Comment : Temp:23'C Humi:54%
Memo : 200KHz Band Lie
Frequency Range Of 88MHz-108MHz

Page:

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBuV/m	dB	dBuV/m	dBuV
1	87.660	38.17	-----	-----	36.19
2	87.860	35.36	-----	-----	33.38

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Trace: 29

Ref Trace:

Condition: 3m
 EUT : DG-1 SOUND PSP CINEMA 2 GO
 M/N : DGPSP-592
 OP Condition : TX 88.5MHz
 Test Spec : DC 5V
 Test Engineer: THOMAX
 Comment : Temp:23'C Humi:54%
 Memo : 200KHz Band Lie
 : Frequency Range Of 88MHz-108MHz

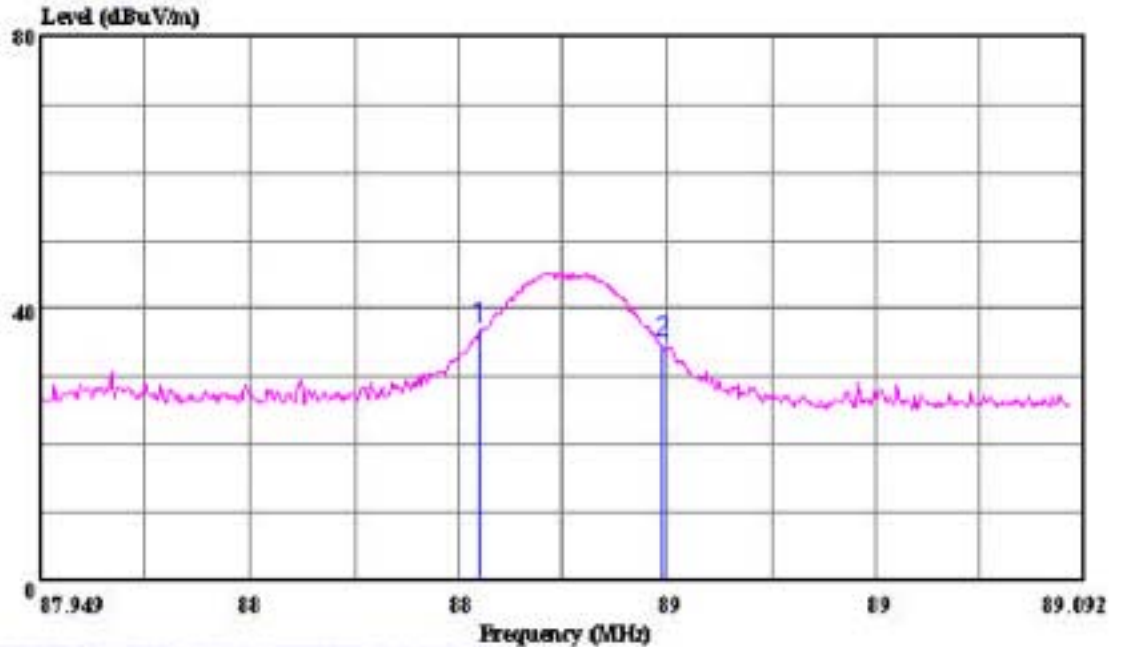
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	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBuV/m	dB	dBuV/m	dBuV
1	88.450	38.27	-----	-----	36.30
2	88.650	38.22	-----	-----	36.25



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Ref Trace:

Condition: 3m
BUT : DG-1 SOUND PSP CINEMA 2 GO
M/N : DGPSP-592
OP Condition : TX 88.9MHz
Test Spec : DC 5V
Test Engineer: THOMAX
Comment : Temp:23'C Humi:54%
Memo : 200KHz Band Lie
: Frequency Range Of 88MHz-108MHz

Page:

	Freq	Level	Over Limit	Limit Line	Read Level
	MHz	dBuV/m	dB	dBuV/m	dBuV
1	88.430	37.15	-----	-----	37.15
2	88.630	35.06	-----	-----	35.06

4. DEVIATION TO TEST SPECIFICATIONS

[NONE]

APPENDIX I



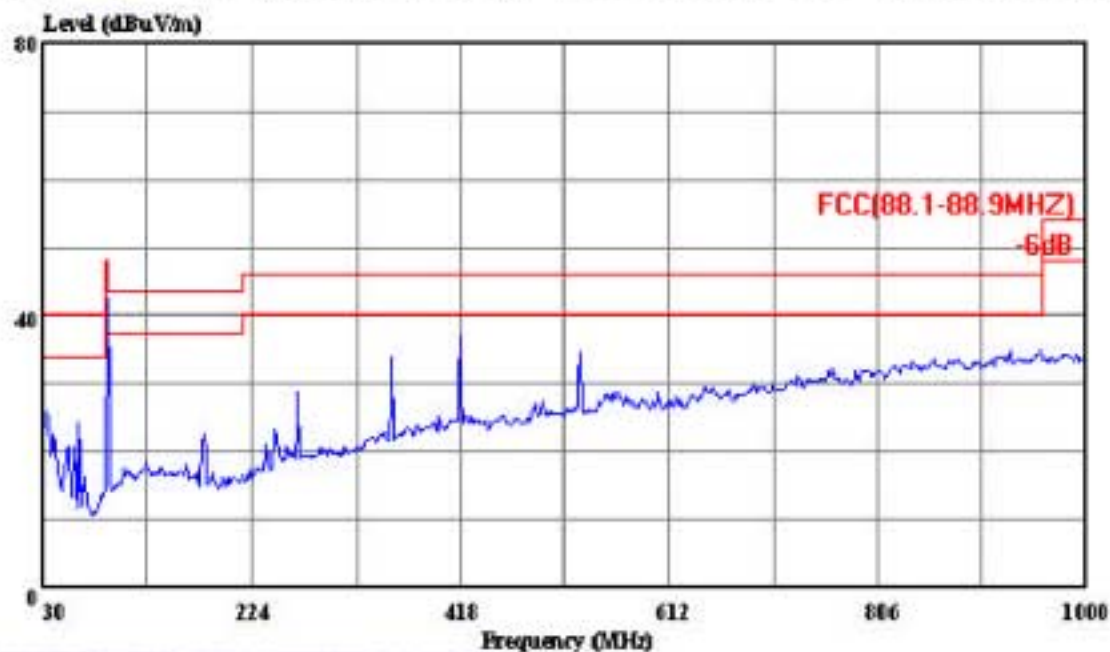
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Trace:

Ref Trace:

Condition: FCC(88.1-88.9MHZ) 3m 2598FACTOR HORIZONTAL

EUT : DG-1 SOUND PSP CINEMA 2 GO

M/N : DGPSP-592

OP Condition : TX 88.1MHz

Test Spec : DC 5V

Test Engineer: THOMAX

Comment : Temp:23'C Humi:54%

Memo :



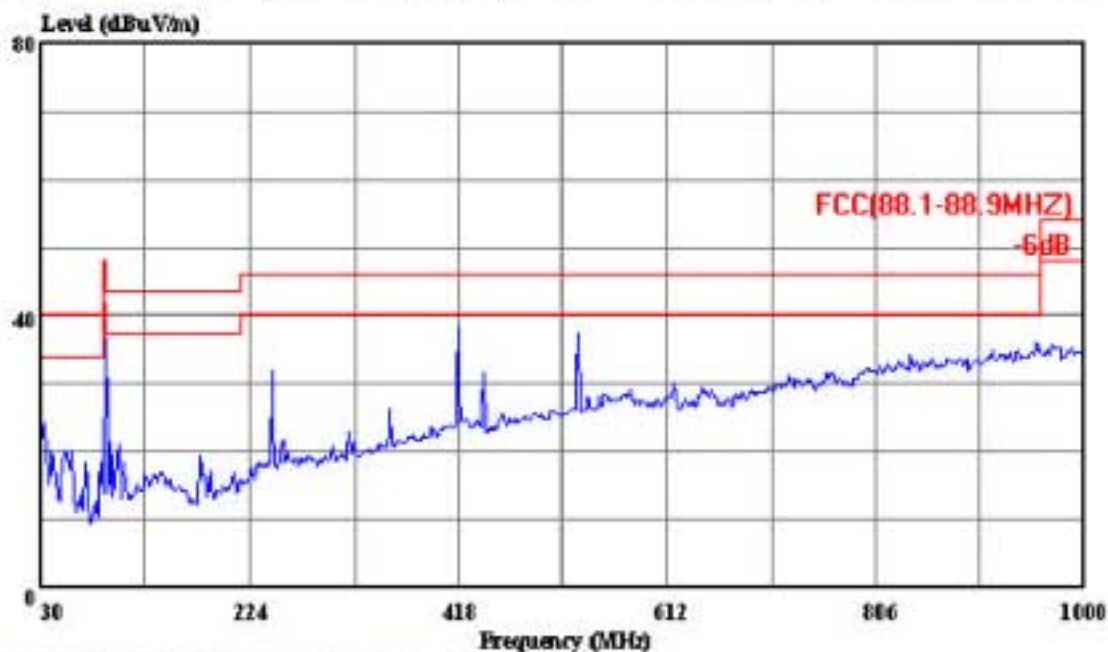
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AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC(88.1-88.9MHZ) 3m 2598FACTOR VERTICAL

EUT : DG-1 SOUND PSP CINEMA 2 GO

M/N : DGPSP-592

OP Condition : TX 88.1MHz

Test Spec : DC 5V

Test Engineer: THOMAX

Comment : Temp:23'C Humi:54%

Memo :



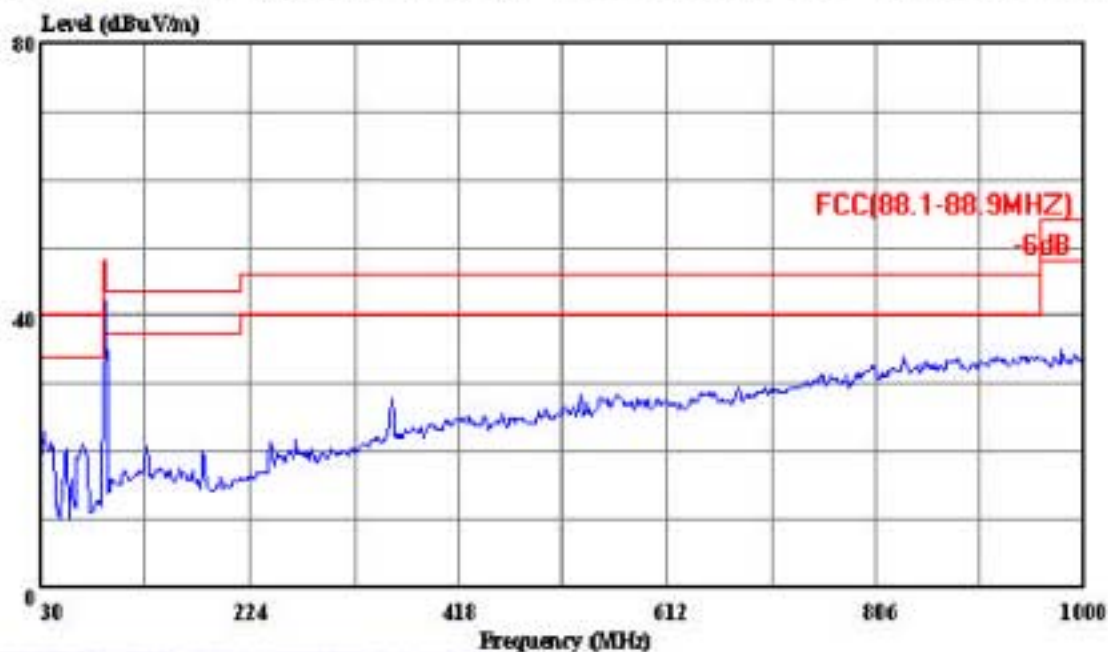
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Data#: 17 File#: ACS5Q1128.EMI Date: 2005-12-19 Time: 16:27:31



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

Trace:

Ref Trace:

Condition: FCC(88.1-88.9MHZ) 3m 2598FACTOR HORIZONTAL

EUT : DG-1 SOUND PSP CINEMA 2 GO

M/N : DGPSP-592

OP Condition : TX 88.5MHz

Test Spec : DC 5V

Test Engineer: THOMAX

Comment : Temp:23'C Humi:54%

Memo :



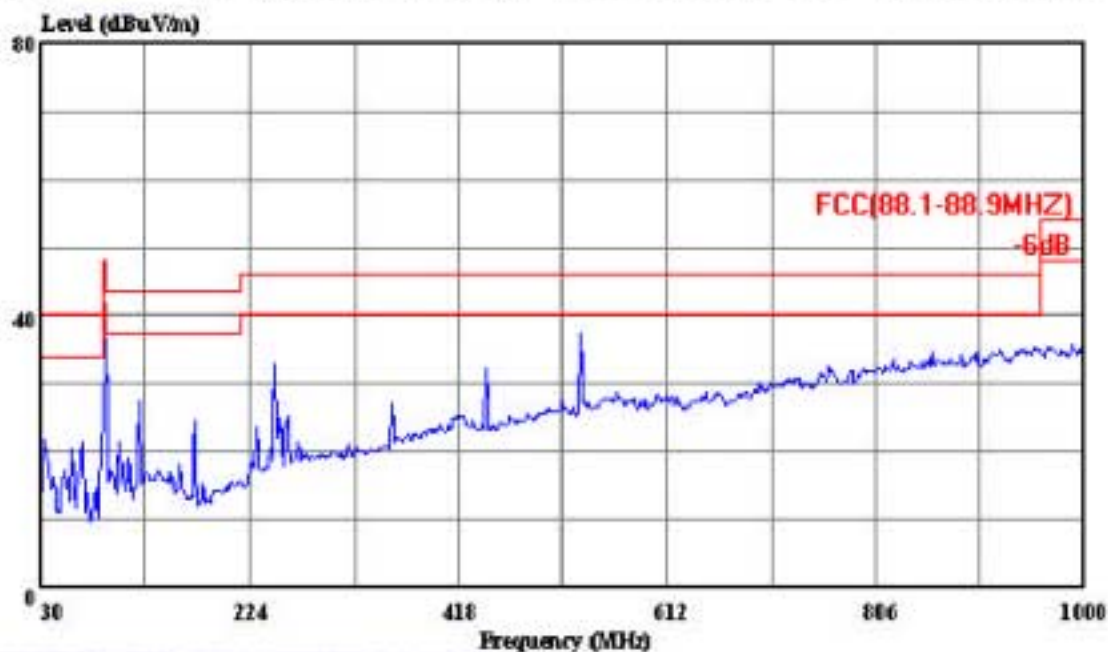
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Trace:

Ref Trace:

Condition: FCC(88.1-88.9MHZ) 3m 2598FACTOR VERTICAL

EUT : DG-1 SOUND PSP CINEMA 2 GO

M/N : DGPSP-592

OP Condition : TX 88.5MHz

Test Spec : DC 5V

Test Engineer: THOMAX

Comment : Temp:23'C Humi:54%

Memo :



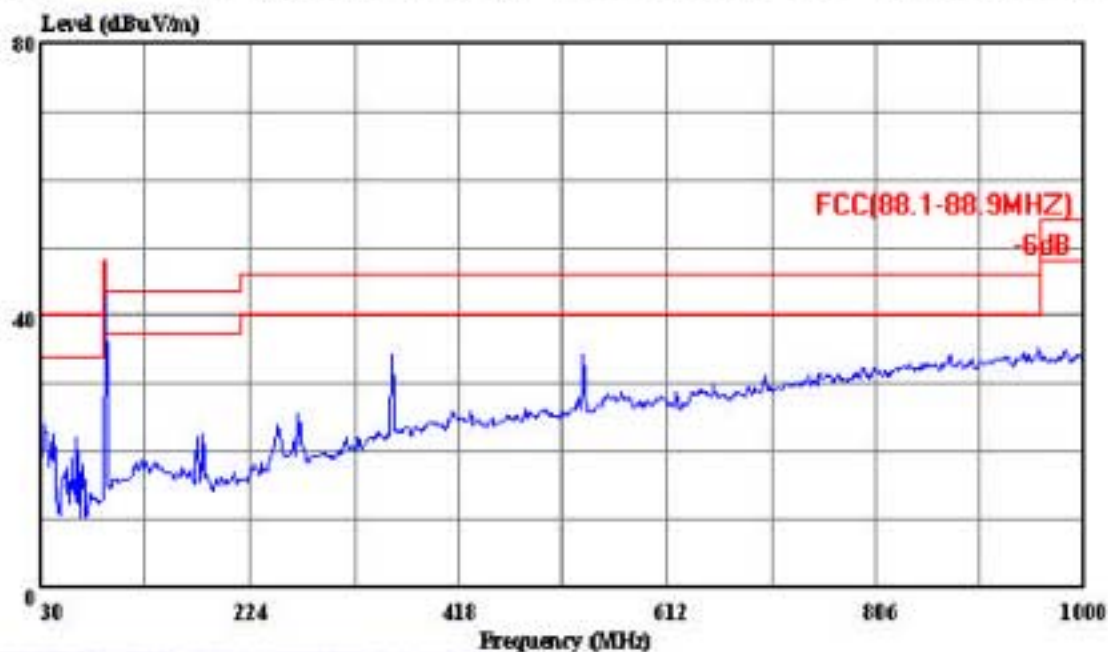
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Trace:

Ref Trace:

Condition: FCC(88.1-88.9MHZ) 3m 2598FACTOR HORIZONTAL

EUT : DG-1 SOUND PSP CINEMA 2 GO

M/N : DGPSP-592

OP Condition : TX 88.9MHz

Test Spec : DC 5V

Test Engineer: THOMAX

Comment : Temp:23'C Humi:54%

Memo :



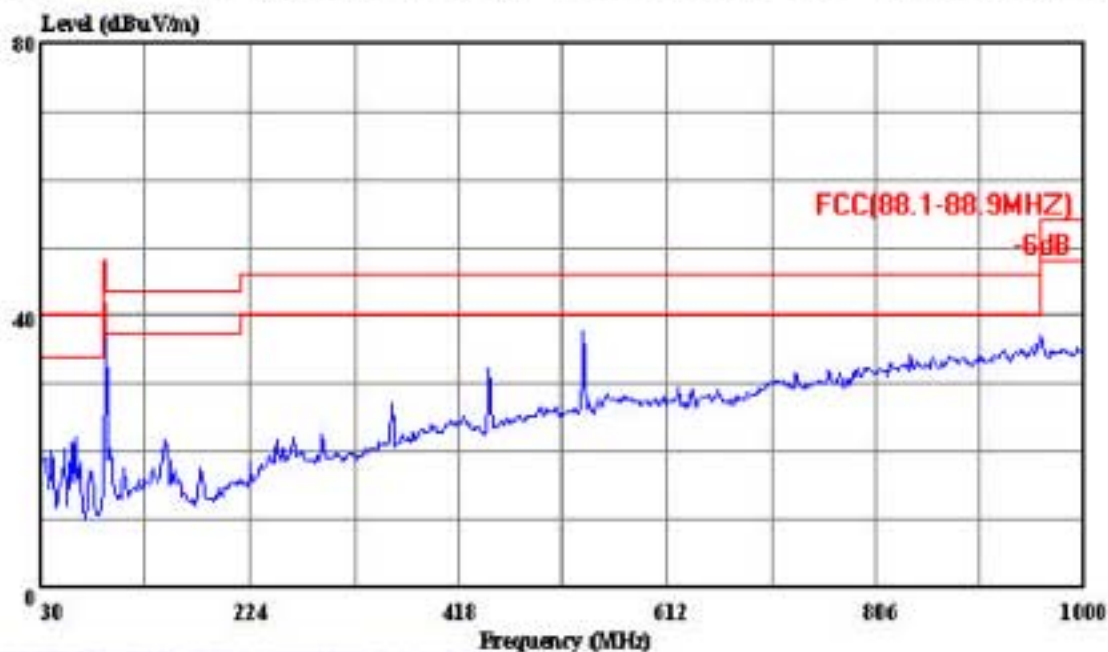
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AUDIX TECHNOLOGY (SHENZHEN) CO., LTD. (3# Chamber)

Trace:

Ref Trace:

Condition: FCC(88.1-88.9MHZ) 3m 2598FACTOR VERTICAL

EUT : DG-1 SOUND PSP CINEMA 2 GO

M/N : DGPSP-592

OP Condition : TX 88.9MHz

Test Spec : DC 5V

Test Engineer: THOMAX

Comment : Temp:23'C Humi:54%

Memo :