

APPLICATION FOR CERTIFICATION

On Behalf of  
Reon Tech Industry Co.,Ltd  
Spiral Energy Saving Lamp

Model : SRE-15W SRE-20W SRE-25W

Prepared for : Reon Tech Industry Co.,Ltd  
Rm. 1905#, Jintian Building,  
No.1199 Heping Road, Luo Hu,  
Shenzhen, Shenzhen

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

Tel: (0755)663-9496

Report Number : ACS-F01139  
Date of Test : Aug. 14 ~ 23, 2001  
Date of Report : Oct. 10, 2001

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## TEST REPORT CERTIFICATION

Applicant : Reon Tech Industry Co.,Ltd  
Manufacturer : Reon Tech Industry Co.,Ltd  
EUT Description : Spiral Energy Saving Lamp  
(A) MODEL NO : SRE-15W SRE-20W SRE-25W  
(B) SERIAL NO : N/A  
(C) POWER SUPPLY : 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 18 SUBPART C RF LIGHTING DEVICES  
CONSUMER (1998) AND MP-5/1986

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 18 Subpart C limits for radiation and conduction emissions. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the 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.

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. 14 ~ 23, 2001

Prepared by :

Tracy Lin  
Tracy Lin / Assistant

Reviewer :

Rees Zeng  
Rees Zeng / Engineer

Approved & Authorized Signer :

For and on behalf of  
AUDIX TECHNOLOGY (SHENZHEN) CO.,LTD.

Alex Deng  
Alex Deng Authorized Signatures

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Description	:	Spiral Energy Saving Lamp (This report is about transmitter FCC ID and the receiver FCC DOC report please refer to AUDIX Number ACS-F01139 the device operate on 2 Selected channels at 40KHz and 60KHz for both channels.)
Model Number	:	SRE-15W SRE-20W SRE-25W
Applicant	:	Reon Tech Industry Co.,Ltd  Rm. 1905#, Jintian Building, No.1199 Heping Road, Luo Hu, Shenzhen, Shenzhen
Manufacturer	:	Reon Tech Industry Co.,Ltd  Heng De Building, Yongxing Industrial Zone, Shiyan, Shenzhen
Date of Test	:	Aug. 14 ~ 23, 2001

## 1.2. Test Facility

### Site Description

3m Anechoic Chamber	:	Certificated by FCC, USA Aug. 24, 2000
3m & 10m Open Site	:	Certificated by FCC, USA Jan. 29, 2001
EMC Lab.	:	Certificated by VCCI, Japan Oct. 29, 1998
		certificated by DATech, German Feb. 02, 1999
		Certificated by NVLAP, USA NVLAP Code: 200372-0
		Certificated by DNV, Norway May 26, 1999

Name of Firm	:	Audix Technology (Shenzhen) Co., Ltd.
Site Location	:	No. 6, Ke Feng Rd., 52 Block, Shenzhen Science & Industrial Park, Nantou, Shenzhen, Guangdong, China

## 1.3. Measurement Uncertainty

Conduction Uncertainty	=	$\pm 2.66\text{dB}$
Radiation Uncertainty	=	$\pm 4.26\text{dB}$

## 2. POWER LINE CONDUCTED EMISSION TEST

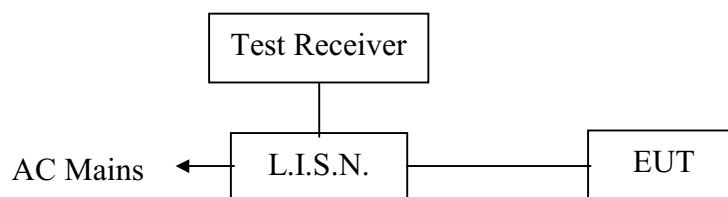
### 2.1. Test Equipment

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. 03, 01	1 Year
2.	L.I.S.N.	Kyoritsu	KNW-407	8-541-4	Jun. 03, 01	1 Year
3.	Terminator	EMCO	50Ω	No. 1	Jun. 03, 01	1 Year
4.	Terminator	EMCO	50Ω	No. 2	Jun. 04, 00	1 Year
5.	RF Cable	FUJIKURA	RG-55/U	LISN Cable	Aug. 26, 01	1/2 Year
6.	Coaxial Switch	Anritsu	MP59B	M73989	Jun. 02, 01	1/2 Year

### 2.2. Block Diagram of Test Setup

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



*(EUT: Spiral Energy Saving Lamp)*

### 2.3. Power Line Conducted Emission Test Limits

Frequency MHz	Maximum RF Line Voltage	
	μV	dB(μV)
0.45 ~ 30	250	48

Remarks: RF Line Voltage (dB(μV)) = 20 log RF Line Voltage (μV)

## 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. Spiral Energy Saving Lamp (EUT)

Model Number	:	SRE-15W SRE-20W SRE-25W
Serial Number	:	N/A
Manufacturer	:	Reon Tech Industry Co.,Ltd

## 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 (ON) and test it.

## 2.6. Test Procedure

The EUT 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 EUT. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission levels. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4-1992 on Conducted Emission Test.

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

The frequency range from 450KHz 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 450KHz to 30 MHz is investigated.

All emissions not reported below are too low against the prescribed limits.

Date of Test :	Aug. 15, 2001	Temperature :	27°C
EUT :	Spiral Energy Saving Lamp	Humidity :	71%
Model No. :	SRE-15W	Test Mode :	ON
Test Engineer :	Ling		

Frequency MHz	Reading		Limit dB(μV)
	Phase VA dB(μV)	Phase VB dB(μV)	
0.475	*	42.80	48.00
0.494	41.95	*	48.00
<b>0.508</b>	*	<b>43.07</b>	<b>48.00</b>
0.555	42.90	*	48.00
0.635	39.73	*	48.00
0.671	*	43.03	48.00
0.714	37.48	*	48.00
0.720	*	42.15	48.00
1.212	32.63	*	48.00
1.233	*	34.25	48.00
2.344	*	28.67	48.00
2.486	27.91	*	48.00

- Remark :
1. All readings are Quasi-Peak values.
  2. The worst emission is detected at 0.508MHz with corrected signal level of 43.07dB(μV) (limit is 48dB(μV)) when the VB side of the EUT is connected to L.I.S.N.

Date of Test :	Aug. 15, 2001	Temperature :	27°C
EUT :	Spiral Energy Saving Lamp	Humidity :	71%
Model No. :	SRE-20W	Test Mode :	ON
Test Engineer :	Ling		

Frequency MHz	Reading		Limit dB(μV)
	Phase VA dB(μV)	Phase VB dB(μV)	
0.458	42.21	*	48.00
0.479	*	41.31	48.00
<b>0.494</b>	<b>42.29</b>	*	<b>48.00</b>
0.567	*	39.99	48.00
0.627	37.86	*	48.00
0.646	*	35.01	48.00
0.748	*	25.64	48.00
0.874	34.98	*	48.00
0.907	*	29.81	48.00
1.668	22.66	*	48.00
1.990	*	24.54	48.00
3.464	27.96	*	48.00

Remark :

1. All readings are Quasi-Peak values.
2. The worst emission is detected at 0.494MHz with corrected signal level of 42.29dB(μV) (limit is 48dB(μV)) when the VA side of the EUT is connected to L.I.S.N.

Date of Test :	Aug. 15, 2001	Temperature :	27°C
EUT :	Spiral Energy Saving Lamp	Humidity :	71%
Model No. :	SRE-25W	Test Mode :	ON
Test Engineer :	Ling		

Frequency MHz	Reading		Limit dB(μV)
	Phase VA dB(μV)	Phase VB dB(μV)	
<b>0.458</b>	<b>42.11</b>	*	<b>48.00</b>
0.471	*	40.69	48.00
0.521	*	38.40	48.00
0.567	37.22	*	48.00
0.767	*	40.10	48.00
0.783	37.04	*	48.00
0.783	*	33.37	48.00
0.889	36.62	*	48.00
1.087	33.32	*	48.00
1.092	*	32.72	48.00
2.626	26.92	*	48.00
3.494	*	27.94	48.00

- Remark :
1. All readings are Quasi-Peak values.
  2. The worst emission is detected at 0.458MHz with corrected signal level of 42.11dB(μV) (limit is 48dB(μV)) when the VA side of the EUT is connected to L.I.S.N.

### 3. RADIATED EMISSION TEST

#### 3.1. Test Equipment

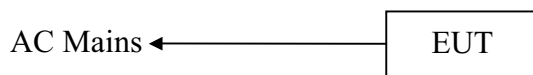
The following test equipments are used during the radiated emission test:

##### 3.1.1. For Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	EMI Test Receiver	HP	85422E	3625A00181	Jun. 03, 01	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS20	830350/005	Jun. 03, 01	1 Year
3.	Amplifier	HP	8447D	2944A07794	Jun. 02, 01	1/2 Year
4.	Bilog Antenna	Chase	CBL6112A	2176	Sep. 24, 01	1 Year
5.	Computer	N/A	N/A	N/A	N/A	N/A
6.	Printer	NEC	P3800	568101448	N/A	N/A
7.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.1	Aug.07, 01	1/2 Year
8.	RF Cable	MIYAZAKI	5D-2W	3# Chamber No.2	Aug.07, 01	1/2 Year
9.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.3	Aug.07, 01	1/2 Year
10.	RF Cable	FUJIKURA	RG-55/U	3# Chamber No.4	Aug.07, 01	1/2 Year
11.	Coaxial Switch	Anritsu	MP59B	M74389	Jun. 02, 01	1/2 Year

#### 3.2. Block Diagram of Test Setup

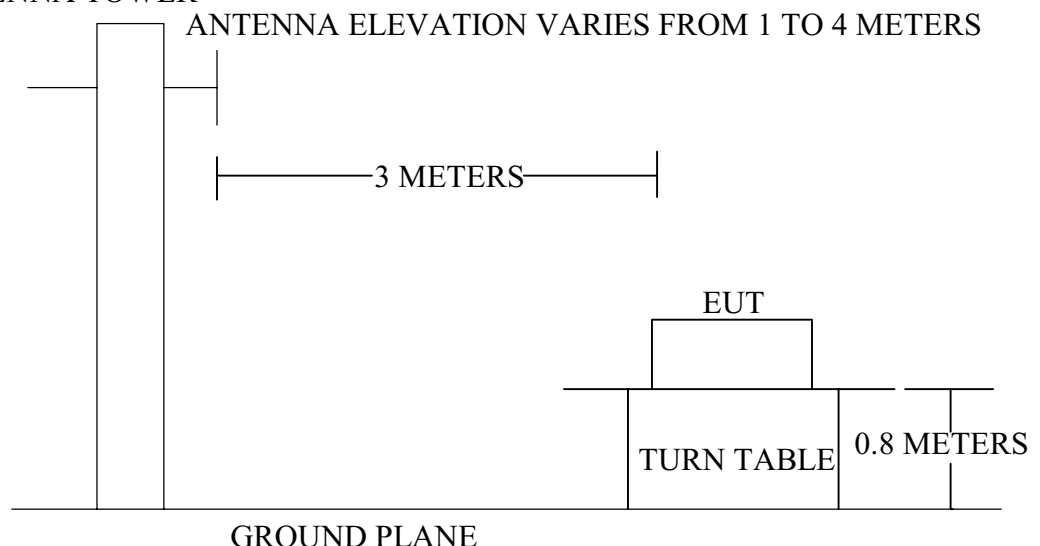
##### 3.2.1. Block diagram of connection between the EUT and simulators



*(EUT: Spiral Energy Saving Lamp)*

##### 3.2.2. Test Setup Diagram 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

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

### 3.4. EUT Configuration on Test

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

#### 3.4.1. Spiral Energy Saving Lamp (EUT)

Model Number	:	SRE-15W SRE-20W SRE-25W
Serial Number	:	N/A
Manufacturer	:	Reon Tech Industry Co.,Ltd

### 3.5. Operating Condition of EUT

1. Setup the EUT as shown in Section 3.2..
2. Let the EUT work in test mode (ON) and test it.

### 3.6. Test Procedure

The EUT and its simulators are placed on a turn table, which is 0.8 meter high above the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission levels. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna are set on test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to MP-5/1986 on Radiated Emission Test.

The bandwidth of the EMI test receiver (R&S ESVS20) is set at 120KHz.

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

The test mode (ON) are tested in Anechoic Chamber and all the scanning waveforms are attached in Appendix II.

### 3.7. Radiated Emission Noise Measurement Result

**PASS.**

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

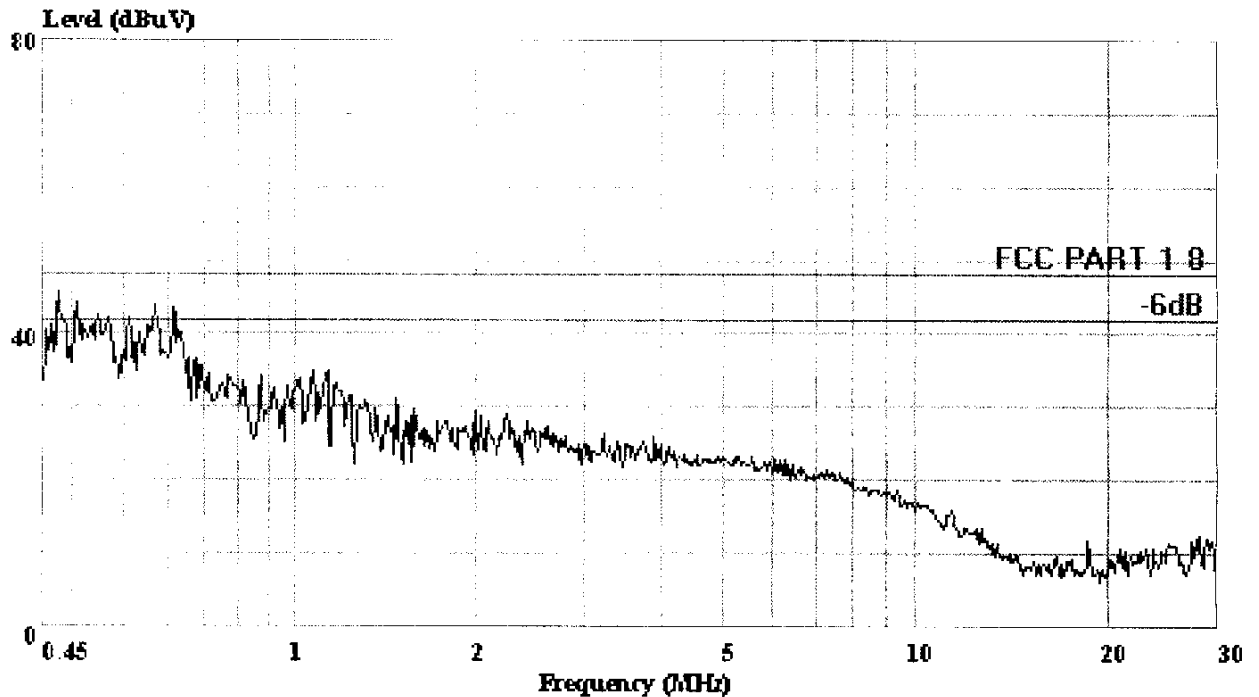


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind Park  
Nantou, Guangdong, China  
Tel: 0755-6639495~7  
Fax: 0755-6632877

Data#: 11 File#: Reon Tech.EMI

Date: 2001-08-14 Time: 21:15:50



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

Trace:

Ref Trace:

Condition: FCC PART 18

Eut: : Spiral Energy Saving Lamp M/N:SRE-15W

Manuf: : Reon Tech Industry

OP Cond: : On

Operator: : Ling

Test Spec: : 120V/60Hz Va

Comment: : Temp:27'C

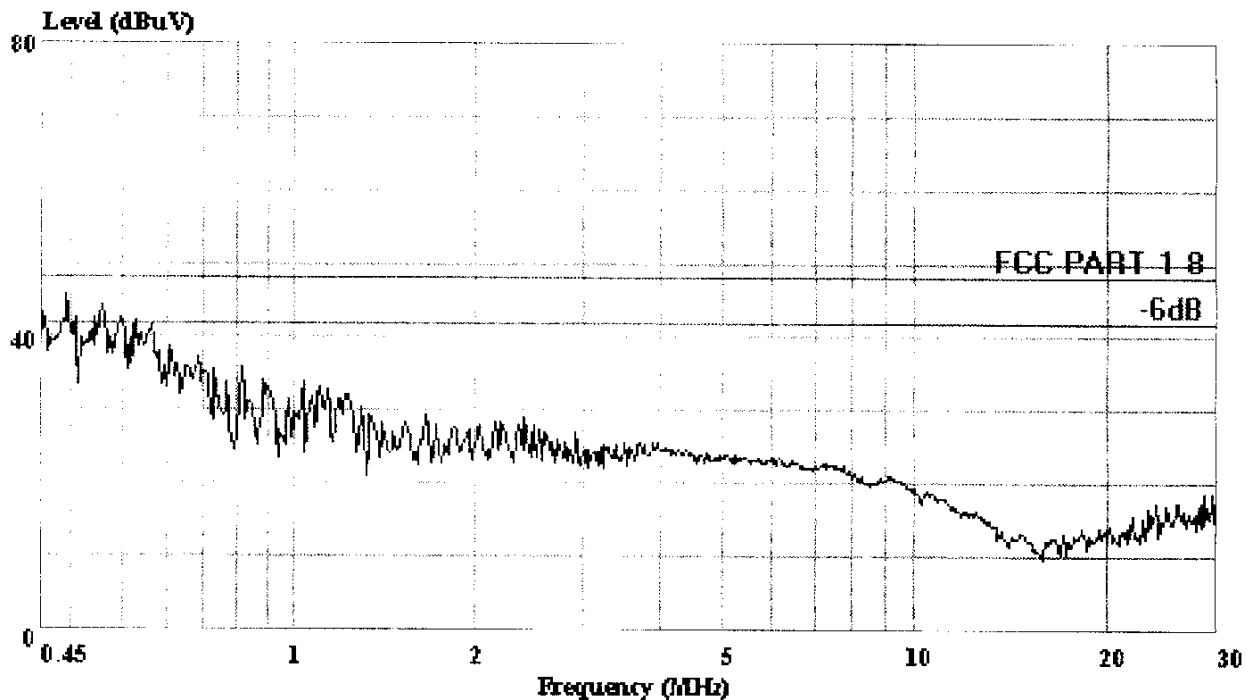
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Shenzhen Science & Ind Park  
Nantou, Guangdong, China  
Tel: 0755-6639495~7  
Fax: 0755-6632877

Data#: 9 File#: Reon Tech.EMI Date: 2001-08-14 Time: 21:11:39



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

Trace:

Ref Trace:

Condition: FCC PART 1 8

Eut: : Spiral Energy Saving Lamp M/N:SRE-15W

Manuf: : Reon Tech Industry

OP Cond: : On

Operator: : Ling

Test Spec: : 120V/60Hz Vb

Comment: : Temp:27'C

: Humi:71%

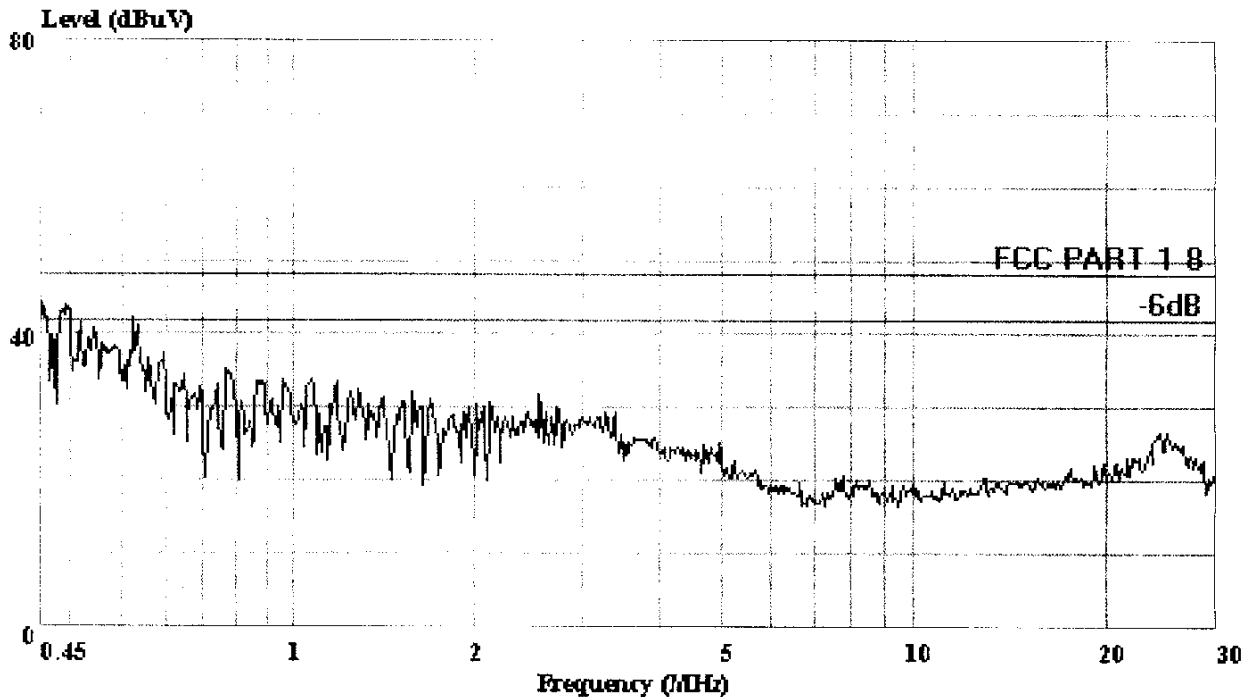


AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind Park  
Nantou, Guangdong, China  
Tel: 0755-6639495~7  
Fax: 0755-6632877

Data#: 5 File#: Reon Tech.EMI

Date: 2001-08-14 Time: 21:01:02



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

Trace:

Ref Trace:

Condition: FCC PART 18

Eut: : Spiral Energy Saving Lamp M/N:SRE-20W

Manuf: : Reon Tech Industry

OP Cond: : On

Operator: : Ling

Test Spec: : 120V/60Hz Va

Comment: : Temp:27'C

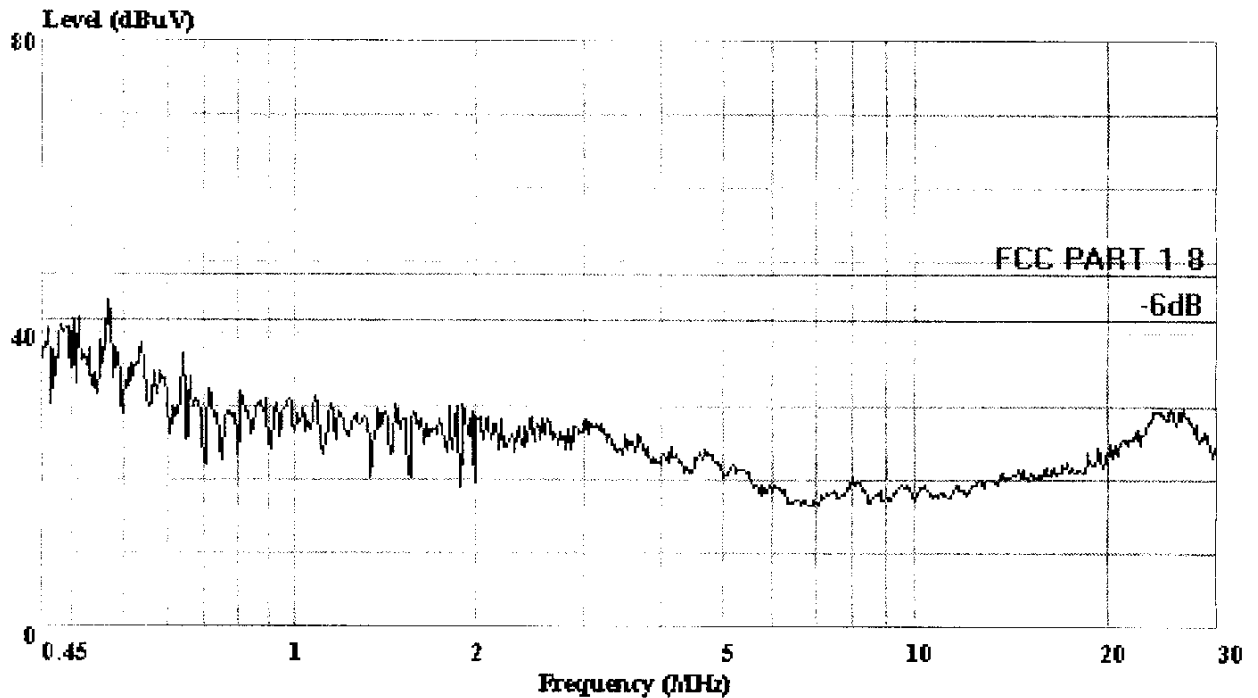
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AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind Park  
Nantou, Guangdong, China  
Tel: 0755-6639495~7  
Fax: 0755-6632877

Data#: 7 File#: Reon Tech.EMI Date: 2001-08-14 Time: 21:06:33



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

Trace:

Ref Trace:

Condition: FCC PART 1 8

Eut: : Spiral Energy Saving Lamp M/N:SRE-20W

Manuf: : Reon Tech Industry

OP Cond: : On

Operator: : Ling

Test Spec: : 120V/60Hz Vb

Comment: : Temp:27'C

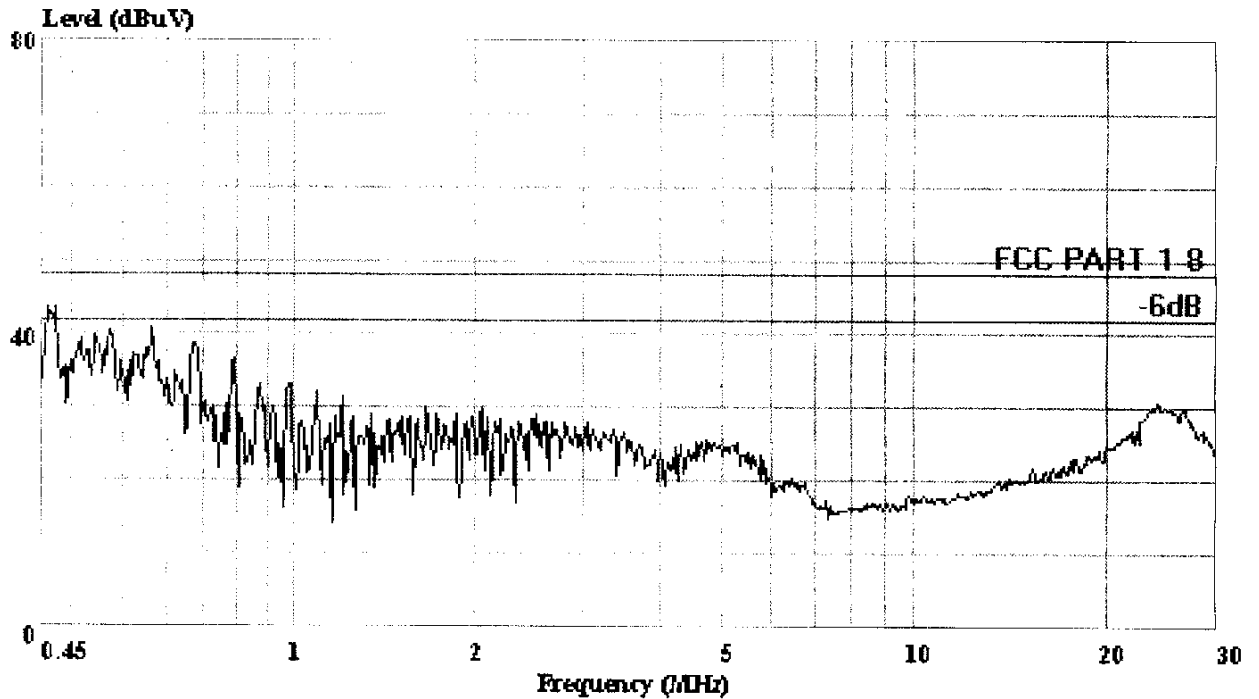
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Shenzhen Science & Ind Park  
Nantou, Guangdong, China  
Tel: 0755-6639495~7  
Fax: 0755-6632877

Data#: 3 File#: Reon Tech.EMI Date: 2001-08-14 Time: 20:55:50



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

Trace:

Ref Trace:

Condition: FCC PART 1.8

Eut: : Spiral Energy Saving Lamp M/N: SRE-25W

Manuf: : Reon Tech Industry

OP Cond: : On

Operator: : Ling

Test Spec: : 120V/60Hz Va

Comment: : Temp: 27°C

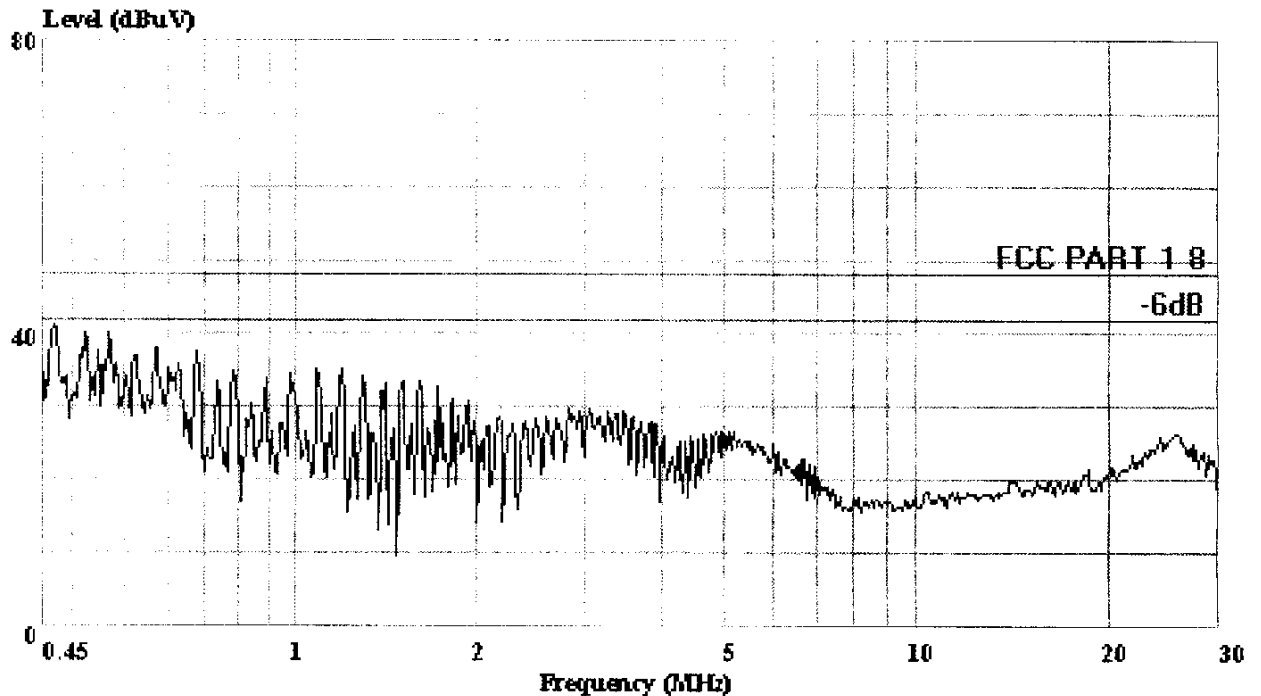
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AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science & Ind Park  
Nantou, Guangdong, China  
Tel: 0755-6639495~7  
Fax: 0755-6632877

Data#: 1 File#: Reon Tech.EMI Date: 2001-08-14 Time: 20:52:28



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

Trace:

Ref Trace:

Condition: FCC PART 18

Eut: : Spiral Energy Saving Lamp M/N:SRE-25W

Manuf: : Reon Tech Industry

OP Cond: : On

Operator: : Ling

Test Spec: : 120V/60Hz Vb

Comment: : Temp:27'C

: Humi:71%

# **APPENDIX I**

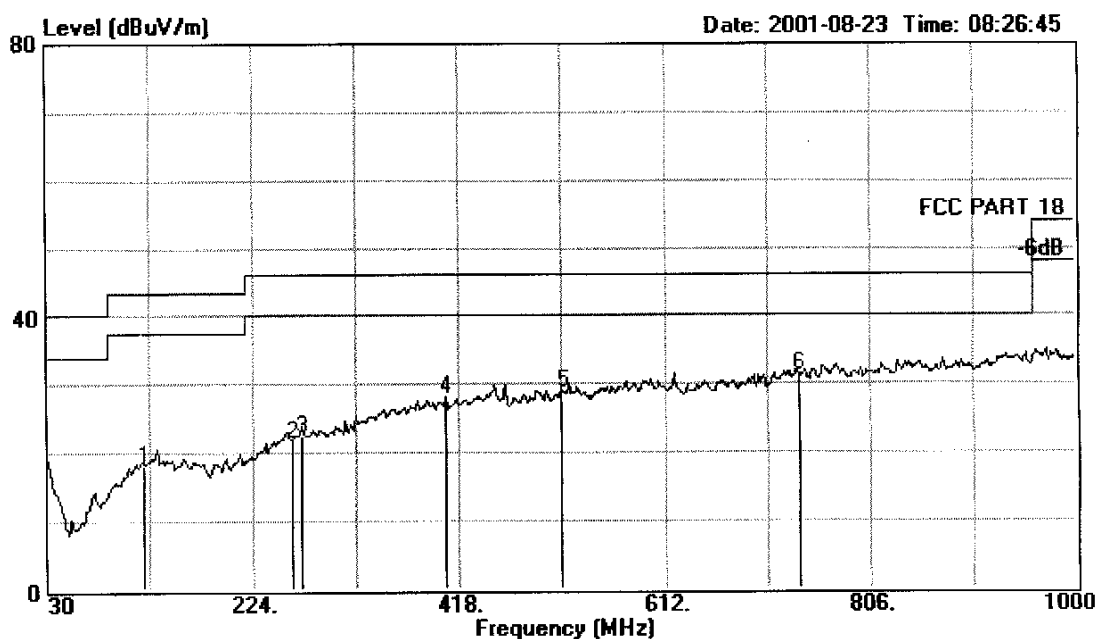


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Road, Block 52,  
Shenzhen Science & Industry Park  
Nantou, Shenzhen, Guangdong, China  
Tel: +86-755-6639496 Fax: +86-755-6639496  
acsadmin@

Data#: 1 File#: C:\EMI TEST DATA\R\Reon Tech.EMI



Site : 3# Chamber  
Condition : FCC PART 18 3m 2176FACTOR HORIZONTAL  
EUT : Spiral Energy Saving Lamp  
M/N : SRE-15W  
Power : AC 120V/60Hz  
Test Engineer : Ling  
Memo :  
Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamplifier Factor	Rems
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB
1	122.150	18.15	-25.35	43.50	-0.25	2.92	15.48	18.40	0.00 QP
2	259.890	21.58	-24.42	46.00	0.41	4.06	17.11	21.17	0.00 QP
3	269.980	22.58	-23.42	46.00	1.12	4.12	17.34	21.46	0.00 QP
4	405.390	28.09	-17.91	46.00	1.38	4.74	21.97	26.71	0.00 QP
5	515.000	29.09	-16.91	46.00	0.94	5.10	23.05	28.15	0.00 QP
6	739.070	31.35	-14.65	46.00	0.10	5.64	25.61	31.25	0.00 QP

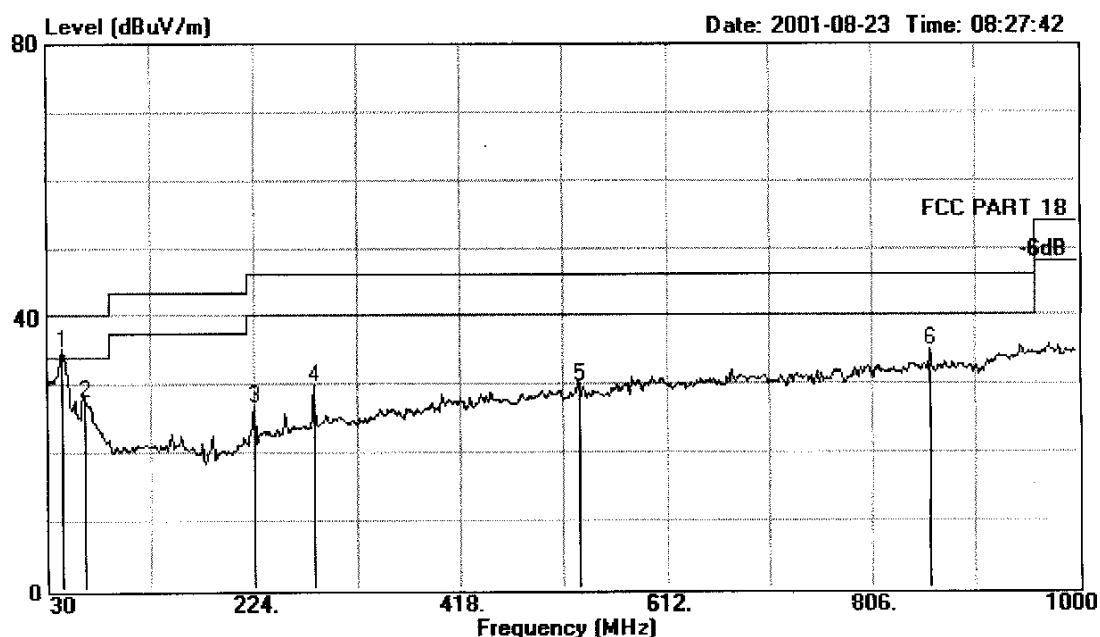


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Road, Block 52,  
Shenzhen Science & Industry Park  
Nantou, Shenzhen, Guangdong, China  
Tel: +86-755-6639496 Fax: +86-755-6639496  
acsadmin@

Data#: 2 File#: C:\EMI TEST DATA\R\Reon Tech.EMI



Site : 3# Chamber  
Condition : FCC PART 18 3m 2176FACTOR VERTICAL  
EUT : Spiral Energy Saving Lamp  
M/N : SRE-15W  
Power : AC 120V/60Hz  
Test Engineer : Ling  
Memo : Freq:44.55MHz  
Memo : Ant Pos:2.9m Table Pos:180 degree

		Over	Limit	Read	Cable	Probe		Preamp	
Freq	Level	Limit	Line	Level	Loss	Factor	Factor	Factor	Rema
MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1 !	44.550	34.93	-5.07	40.00	18.52	1.40	15.01	16.41	0.00 QP
2	65.890	27.73	-12.27	40.00	11.41	1.99	14.33	16.32	0.00 QP
3	223.030	26.85	-19.15	46.00	6.14	3.83	16.88	20.71	0.00 QP
4	279.290	29.93	-16.07	46.00	6.84	4.17	18.92	23.09	0.00 QP
5	529.290	29.78	-16.22	46.00	1.36	5.14	23.28	28.42	0.00 QP
6	861.290	34.91	-11.09	46.00	2.79	5.87	26.25	32.12	0.00 QP

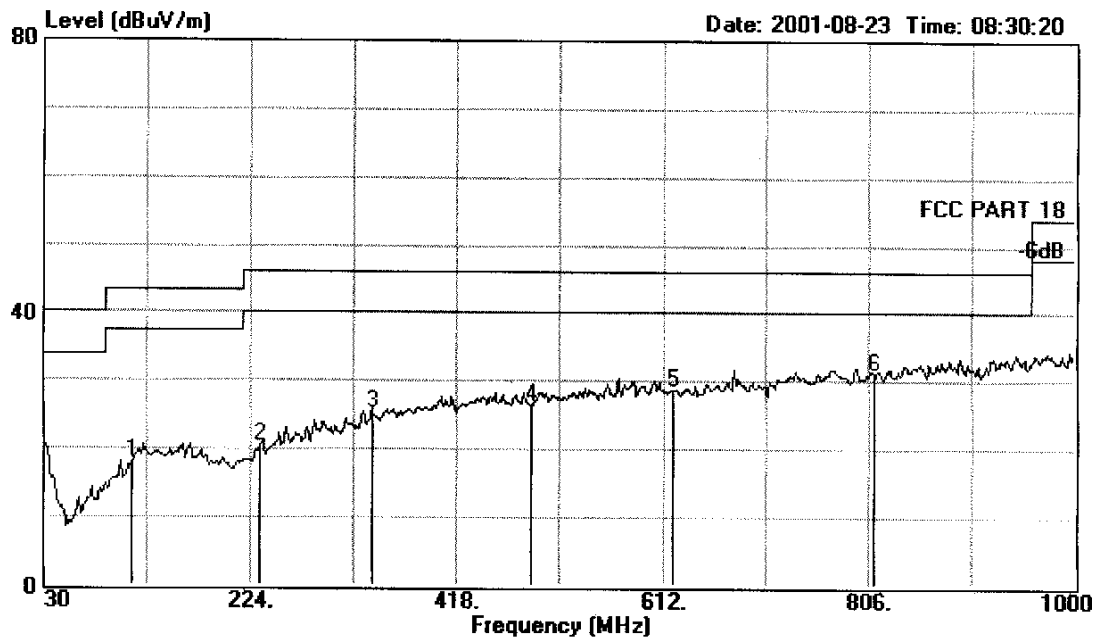


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Road, Block 52,  
Shenzhen Science & Industry Park  
Nantou, Shenzhen, Guangdong, China  
Tel: +86-755-6639496 Fax: +86-755-6639496  
acsadmin@

Data#: 4 File#: C:\EMI TEST DATA\R\Reon Tech.EMI



Site : 3# Chamber  
Condition : FCC PART 18 3m 2176FACTOR HORIZONTAL  
EUT : Spiral Energy Saving Lamp  
M/N : SRE-20W  
Power : AC 120V/60Hz  
Test Engineer : Ling  
Memo :  
Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamp Factor	Rems
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	113.420	18.28	-25.22	43.50	0.72	2.81	14.75	17.56	0.00 QP
2	232.370	20.63	-25.37	46.00	1.48	3.90	15.25	19.15	0.00 QP
3	338.460	25.43	-20.57	46.00	0.95	4.46	20.02	24.48	0.00 QP
4	488.480	26.58	-19.42	46.00	-1.19	5.02	22.75	27.77	0.00 QP
5	621.700	28.80	-17.20	46.00	-0.70	5.38	24.12	29.50	0.00 QP
6	810.850	31.29	-14.71	46.00	-0.59	5.78	26.10	31.88	0.00 QP

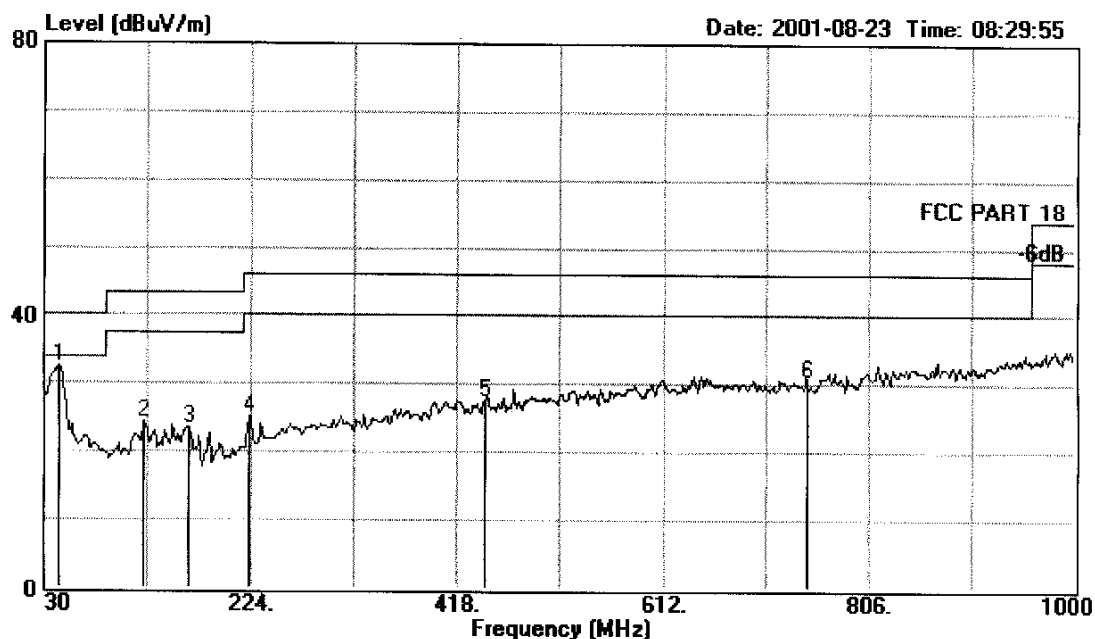


信華科技(深圳)有限公司

AUDIX Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Road, Block 52,  
Shenzhen Science & Industry Park  
Nantou, Shenzhen, Guangdong, China  
Tel: +86-755-6639496 Fax: +86-755-6639496  
acsadmin@

Data#: 3 File#: C:\EMI TEST DATA\R\Reon Tech.EMI



Site : 3# Chamber  
Condition : FCC PART 18 3m 2176FACTOR VERTICAL  
EUT : Spiral Energy Saving Lamp  
M/N : SRE-20W  
Power : AC 120V/60Hz  
Test Engineer : Ling  
Memo : Freq:43.58MHz  
Memo : Ant Pos:2.8m Table Pos:260 degree

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamplifier Factor	Rem
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	
1	43.580	32.55	-7.45	40.00	15.89	1.36	15.30	16.66	0.00 QP
2	124.090	24.35	-19.15	43.50	4.56	2.95	16.84	19.79	0.00 QP
3	164.830	23.67	-19.83	43.50	5.02	3.38	15.27	18.65	0.00 QP
4	221.090	25.15	-20.85	46.00	4.54	3.82	16.79	20.61	0.00 QP
5	444.190	27.70	-18.30	46.00	0.75	4.88	22.07	26.95	0.00 QP
6	747.800	30.75	-15.25	46.00	0.08	5.66	25.01	30.67	0.00 QP

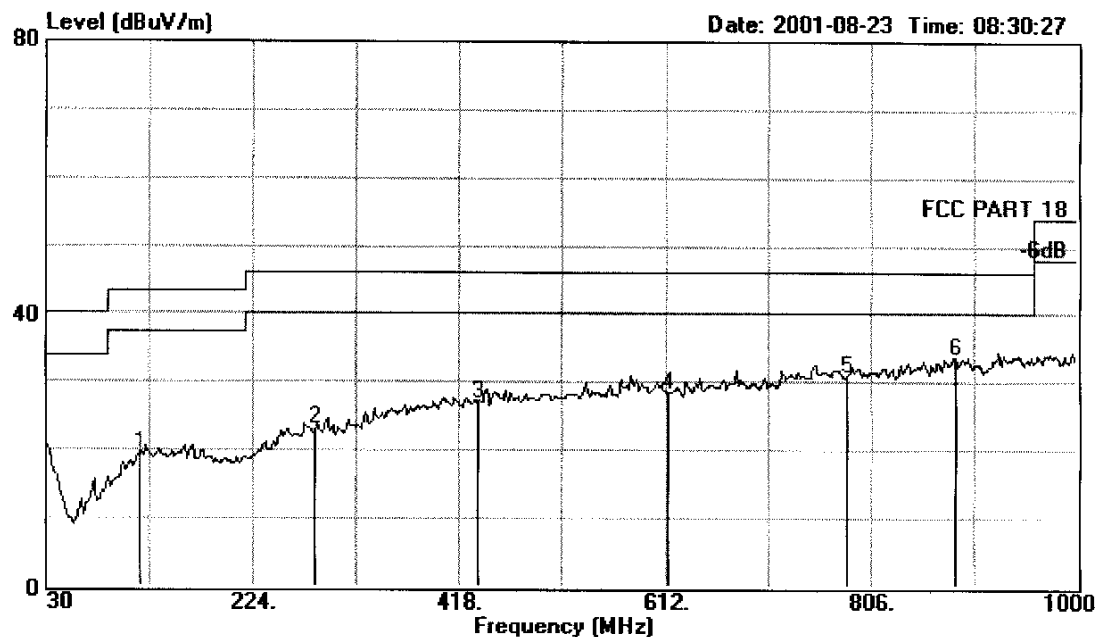


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AUDIX Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Road, Block 52,  
Shenzhen Science & Industry Park  
Nantou, Shenzhen, Guangdong, China  
Tel: +86-755-6639496 Fax: +86-755-6639496  
acsadmin@

Data#: 5 File#: C:\EMI TEST DATA\R\Reon Tech.EMI



Site : 3# Chamber  
Condition : FCC PART 18 3m 2176FACTOR HORIZONTAL  
EUT : Spiral Energy Saving Lamp  
M/N : SRE-25W  
Power : AC 120V/60Hz  
Test Engineer : Ling  
Memo :  
Memo :

	Freq	Level	Over Limit	Limit Line	Read Level	Cable Loss	Probe Factor	Preamplifier Factor	Rems
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB
1	117.300	19.54	-23.96	43.50	1.58	2.86	15.10	17.96	0.00 QP
2	282.200	23.20	-22.80	46.00	1.37	4.19	17.64	21.83	0.00 QP
3	435.460	27.17	-18.83	46.00	-0.04	4.84	22.37	27.21	0.00 QP
4	614.900	28.46	-17.54	46.00	-1.06	5.36	24.16	29.52	0.00 QP
5	783.690	30.99	-15.01	46.00	-0.69	5.73	25.95	31.68	0.00 QP
6	885.540	33.54	-12.46	46.00	1.13	5.91	26.50	32.41	0.00 QP

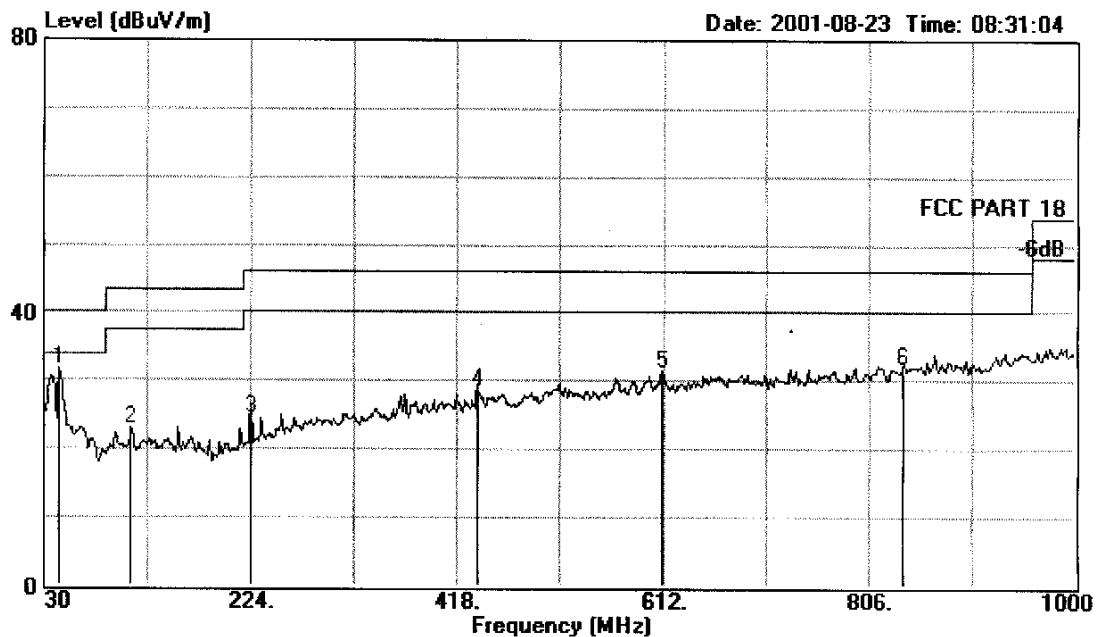


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AUDIX Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Road, Block 52,  
Shenzhen Science & Industry Park  
Nantou, Shenzhen, Guangdong, China  
Tel: +86-755-6639496 Fax: +86-755-6639496  
acsadmin@

Data#: 6 File#: C:\EMI TEST DATA\R\Reon Tech.EMI



Site : 3# Chamber  
Condition : FCC PART 18 3m 2176FACTOR VERTICAL  
EUT : Spiral Energy Saving Lamp  
M/N : SRE-25W  
Power : AC 120V/60Hz  
Test Engineer : Ling  
Memo : Freq:43.58MHz  
Memo : Ant Pos:2.7m Table Pos:270 degree

			Over	Limit	Read	Cable	Probe		Preamp	
	Freq	Level	Limit	Line	Level	Loss	Factor	Factor	Factor	Rems
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB	dB	
1	43.580	31.79	-8.21	40.00	15.13	1.36	15.30	16.66	0.00	QP
2	111.480	23.15	-20.35	43.50	3.62	2.78	16.75	19.53	0.00	QP
3	224.000	24.71	-21.29	46.00	3.94	3.84	16.93	20.77	0.00	QP
4	437.400	28.87	-17.13	46.00	2.01	4.85	22.01	26.86	0.00	QP
5	611.030	31.45	-14.55	46.00	1.49	5.36	24.60	29.96	0.00	QP
6	838.010	32.01	-13.99	46.00	0.05	5.84	26.12	31.96	0.00	QP