

Application for FCC Certificate
On Behalf of
Xiamen Longstar Lighting Co., Ltd.

Energy Saving Lamp

Model No.:	FE-Z-3W	FE-Z-5W	FE-Z-7W	FE-ZM-4W	FE-RSF-15W
	FE-RSF-18W	FE-RSF-20W	FE-RSF-23W	FE-RSF-26W	FE-RSF-30W
	FE-RSH-15W	FE-RSH-18W	FE-RSH-20W	FE-RSH-23W	FE-RSH-26W
	FE-RSH-30W	FE-US-15W	FE-US-18W	FE-US-20W	FE-US-23W
	FE-US-26W	FE-US-30W	FE-III-32W	FE-III-36W	FE-III-40W
	FE-III-45W	FE-III-50W	FE-III S-32W	FE-III S-36W	FE-III S-40W
	FE-III S-45W	FE-III S-50W	FE-III S-55W		

FCC ID: PKCLS0304

Prepared For : Xiamen Longstar Lighting Co., Ltd.
Chengnan Industrial Zone,
Tongan, Xiamen, China
361100

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Report No. : ACI-F03044
Date of Test : Apr 01-Jun 09, 2003
Date of Report : Jun 20, 2003

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TEST REPORT FOR FCC CERTIFICATE

Applicant : Xiamen Longstar Lighting Co., Ltd.

Manufacturer : Xiamen Longstar Lighting Co., Ltd.

EUT Description : Energy Saving Lamp

(A) Model No.:

FE-Z-3W, FE-Z-5W, FE-Z-7W, FE-ZM-4W, FE-RSF-15W, FE-RSF-18W,
FE-RSF-20W, FE-RSF-23W, FE-RSF-26W, FE-RSF-30W, FE-RSH-15W,
FE-RSH-18W, FE-RSH-20W, FE-RSH-23W, FE-RSH-26W, FE-RSH-30W,
FE-US-15W, FE-US-18W, FE-US-20W, FE-US-23W, FE-US-26W, FE-US-30W,
FE-III-32W, FE-III-36W, FE-III-40W, FE-III-45W, FE-III-50W, FE-III S-32W,,
FE-III S-36W, FE-III S-40W, FE-III S-45W, FE-III S-50W, FE-III S-55W,

(B) Power Supply: 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 18 CONSUMER DEVICES (2002.10)
AND MP-5/1986

The device described above is tested by Audix Technology (Shanghai) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 18 RF Lighting Device limits both conducted emissions and field strength.

The test results are contained in this test report and Audix Technology (Shanghai) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the FCC official limits.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of Audix Technology (Shanghai) 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 01-Jun 09, 2003

Prepared by : Cathrin Yin 2003.7.15 Test Engineer :

CATHRIN YIN
(Assistant)



SOLON GONG

For and on behalf of
Audix Technology (Shanghai) Co., Ltd.

Reviewer :

Sammy Chen 2003.7.15
SAMMY CHEN
(Engineer)

Approved Signatory :

Byron Kwo 2003.7.15
BYRON KWO
Authorized Signatory(s)
(Assistant Manager)

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description	:	Energy Saving Lamp
Type of EUT	:	☒ Production ☐ Pre-product ☐ Pro-type
Model Number	:	FE-Z-3W, FE-Z-5W, FE-Z-7W, FE-ZM-4W, FE-RSF-15W, FE-RSF-18W, FE-RSF-20W, FE-RSF-23W, FE-RSF-26W, FE-RSF-30W, FE-RSH-15W, FE-RSH-18W, FE-RSH-20W, FE-RSH-23W, FE-RSH-26W, FE-RSH-30W, FE-US-15W, FE-US-18W, FE-US-20W, FE-US-23W, FE-US-26W, FE-US-30W, FE-III-32W, FE-III-36W, FE-III-40W, FE-III-45W, FE-III-50W, FE-III S-32W, FE-III S-36W, FE-III S-40W, FE-III S-45W, FE-III S-50W, FE-III S-55W In this report, all test models are tested. About the conducted emission test only FE-Z-3W, FE-Z-5W, FE-Z-7W, FE-ZM-4W, FE-RSF-15W, FE-RSF-20W, FE-RSF-30W, FE-RSH-15W, FE-RSH-20W, FE-RSH-30W, FE-US-15W, FE-US-20W, FE-US-30W, FE-III-32W, FE-III-40W, FE-III-50W, FE-III S-32W, FE-III S-40W, FE-III S-55W's the worse case data is recorded. About the magnetic field emission test only FE-Z-3W, FE-Z-5W, FE-Z-7W, FE-ZM-4W, FE-RSF-15W, FE-RSF-20W, FE-RSF-30W, FE-RSH-15W, FE-RSH-20W, FE-RSH-30W, FE-US-15W, FE-US-20W, FE-US-30W, FE-III-32W, FE-III-40W, FE-III-50W, FE-III S-32W, FE-III S-40W, FE-III S-55W's data is recorded.
Applicant	:	Xiamen Longstar Lighting Co., Ltd. Chengnan Industrial Zone, Tongan, Xiamen, China 361100
Manufacturer	:	Xiamen Longstar Lighting Co., Ltd. Chengnan Industrial Zone, Tongan, Xiamen, China 361100

Test Model	Apparent Power (V • A)	Real Power (W)	Test Model	Apparent Power (V • A)	Real Power (W)
FE-Z-3W	6.43	3.19	FE-Z-5W	11.03	6.61
FE-Z-7W	12.43	6.92	FE-ZM-4W	8.13	4.48
FE-RSF-15W	24.58	12.70	FE-RSF-18W	30.38	16.45
FE-RSF-20W	32.71	18.93	FE-RSF-23W	37.98	23.14
FE-RSF-26W	47.10	25.50	FE-RSF-30W	49.90	27.30
FE-RSH-15W	25.86	13.54	FE-RSH-18W	33.00	17.60
FE-RSH-20W	33.90	18.70	FE-RSH-23W	40.90	23.40
FE-RSH-26W	39.30	24.40	FE-RSH-30W	51.90	29.10
FE-US-15W	23.38	13.00	FE-US-18W	34.00	19.24
FE-US-20W	34.60	18.60	FE-US-23W	43.30	23.40
FE-US-26W	43.20	27.20	FE-US-30W	53.70	30.90
FE-III-32W	62.90	29.50	FE-III-36W	54.30	29.80
FE-III-40W	73.10	32.80	FE-III-45W	64.90	38.40
FE-III-50W	103.50	47.90	FE-III S-32W	60.20	27.80
FE-III S-36W	63.40	30.10	FE-III S-40W	75.80	35.10
FE-III S-45W	88.40	37.50	FE-III S-50W	94.30	42.30
FE-III S-55W	101.70	50.60			

1.2 Description of Test Facility

Site Description : Sept. 17, 1998 file on
(Semi-Anechoic Chamber) Federal Communications Commission
FCC Engineering Laboratory
7435 Oakland Mills Road
Columbia, MD 21046, USA

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

Site Location : 3F 34Bldg 680 Guiping Rd,
Caohejing Hi-Tech Park,
Shanghai, China 200233.

NVLAP Lab Code : 200371-0

1.3 Measurement Uncertainty

Conducted Emission Uncertainty : $U = \pm 2.66\text{dB}$

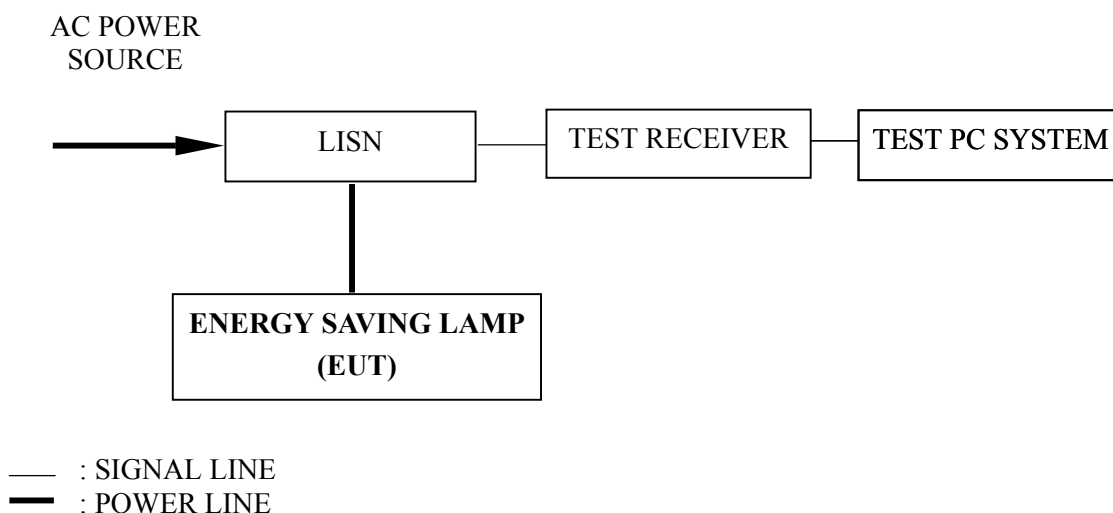
2 AC POWERLINE CONDUCTED EMISSION TEST

2.1 Test Equipment

The following test equipment are used during the powerline conducted emission test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS10	844077/020	Apr 21, 2003	1 Year
2.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-5	Apr 24, 2003	1 Year

2.2 Block Diagram of Test Setup



2.3 Conducted Emission Limits

Frequency of Emission (MHz)	Conducted Limit (dBμV)	
	Quasi-peak	Average
0.15 ~ 0.5	66~56	56~46
0.5 ~ 5	56	46
5 ~ 30	60	50
NOTE 1 - Decreases with the logarithm of the frequency within the band 0.15 MHz to 5 MHz. NOTE 2 - The lower limit applies at the band edges. NOTE 3 - The average should be read if the quasi-peak's margin is below 10 dB.		

2.4 EUT Configuration on Test

The EUT (listed in Sec. 1.1) was installed as shown on Sec. 2.2 to meet FCC requirement and operating in a manner which tends to maximize its emission level in a normal application.

2.5 Operating Condition of EUT

2.5.1 Setup the EUT as shown in Sec. 2.2.

2.5.2 Turn on the power of all equipment.

2.5.3 The EUT will be operated normally.

2.6 Test Procedures

The EUT was connected to the power mains through a Line Impedance Stabilization Network (LISN). This provided a 50 ohm coupling impedance for the measuring equipment.

Both sides of AC line were checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed or manipulated according to MP-5/1986 during conducted emission test.

The IF bandwidth of Test Receiver ESHS10 was set at 10 kHz.

The frequency range from 150 kHz to 30 MHz was checked.

The test mode (ON) was done on conducted test and the test results of the highest emissions are listed in Sec. 2.7.

The waveform is attached in APPENDIX I.

2.7 Test Results

< PASS >

The frequency and amplitude of the highest AC powerline conducted emissions relative to the limit is reported. All emissions not reported below are too low against the prescribed limits.

NOTE 1 – Probe Factor means insertion loss of LISN

NOTE 2 – Level = Read Level + Factor

NOTE 3 – Factor = Cable Loss + Probe Factor

NOTE 4 – QP means Quasi-Peak Values, AV means Average Values.

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-Z-3W Humidity : 56%

Test Mode : ON Date of Test : May 10, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VB	0.173	0.23	47.19	47.42	64.84	17.42
	0.251	0.20	43.13	43.33	61.73	18.40
	0.445	0.16	40.43	40.59	56.97	16.38
	0.502	0.15	41.18	41.33	56.00	14.67
	0.585	0.15	44.28	44.43	56.00	11.57
	0.642	0.16	40.43	40.59	56.00	15.41
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.585 MHz with corrected signal level of 44.43 dB (μV) (limit is 56.00 dB (μV)), when the VB of the EUT is connected to LISN.						

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-Z-5W Humidity : 56%

Test Mode : ON Date of Test : May 11, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VB	0.171	0.23	50.76	50.99	64.90	13.91
	0.197	0.20	53.16	53.36	63.76	10.40
	0.238	0.20	44.54	44.74	62.17	17.43
	0.262	0.20	42.78	42.98	61.38	18.40
	0.336	0.19	38.14	38.33	59.31	20.98
	0.788	0.16	43.56	43.72	56.00	12.28
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.197 MHz with corrected signal level of 53.36 dB (μV) (limit is 63.76 dB (μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-Z-7W Humidity : 56%

Test Mode : ON Date of Test : May 10, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VB	0.176	0.23	49.93	50.16	64.66	14.50
	0.224	0.20	46.91	47.11	62.69	15.58
	0.265	0.20	42.66	42.86	61.26	18.40
	0.529	0.15	41.62	41.77	56.00	14.23
	0.666	0.16	45.86	46.02	56.00	9.98
	0.753	0.16	49.75	49.91	56.00	6.09
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.753 MHz with corrected signal level of 49.91 dB (μV) (limit is 56.00 dB (μV)), when the VB of the EUT is connected to LISN.						

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-ZM-4W Humidity : 56%

Test Mode : ON Date of Test : May 10, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.158	0.22	53.87	54.09	65.56	11.47
	0.190	0.22	51.19	51.41	64.02	12.61
	0.223	0.21	48.41	48.62	62.70	14.08
	0.251	0.20	44.74	44.94	61.73	16.79
	0.286	0.16	44.84	45.00	60.63	15.63
	0.317	0.14	40.46	40.60	59.80	19.20
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.158 MHz with corrected signal level of 54.09 dB (μV) (limit is 65.56 dB (μV)), when the VA of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-RSF-15W Humidity : 56%

Test Mode : ON Date of Test : Apr 01, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.169	0.22	48.42	48.64	64.99	16.35
	0.201	0.22	47.68	47.90	63.58	15.68
	0.243	0.20	45.75	45.95	62.00	16.05
	0.286	0.16	41.77	41.93	60.63	18.70
	0.497	0.12	39.89	40.01	56.05	16.04
	0.654	0.11	35.57	35.68	56.00	20.32
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.201 MHz with corrected signal level of 47.90 dB (μV) (limit is 63.58 dB (μV)), when the VA of the EUT is connected to LISN.						

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-RSF-20W Humidity : 56%

Test Mode : ON Date of Test : Apr 01, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VB	0.182	0.22	42.44	42.66	64.37	21.71
	0.270	0.20	39.97	40.17	61.12	20.95
	0.363	0.18	39.27	39.45	58.65	19.20
	0.541	0.15	37.81	37.96	56.00	18.04
	0.641	0.16	37.91	38.07	56.00	17.93
	1.100	0.16	40.54	40.70	56.00	15.30
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 1.100 MHz with corrected signal level of 40.70 dB (μV) (limit is 56.00 dB (μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-RSF-30W Humidity : 56%

Test Mode : ON Date of Test : Apr 01, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VB	0.242	0.20	41.40	41.60	62.04	20.44
	0.402	0.17	38.93	39.10	57.81	18.71
	0.484	0.15	38.78	38.93	56.27	17.34
	0.644	0.16	39.52	39.68	56.00	16.32
	0.804	0.16	39.20	39.36	56.00	16.64
	0.958	0.16	38.64	38.80	56.00	17.20
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.644 MHz with corrected signal level of 39.68 dB (μV) (limit is 56.00 dB (μV)), when the VB of the EUT is connected to LISN.						

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-RSH-15W Humidity : 56%

Test Mode : ON Date of Test : Apr 01, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.235	0.21	39.43	39.64	62.26	22.62
	0.354	0.13	41.04	41.17	58.87	17.70
	0.396	0.13	44.51	44.64	57.95	13.31
	0.437	0.13	44.05	44.18	57.11	12.93
	0.474	0.12	40.09	40.21	56.45	16.24
	0.549	0.11	38.44	38.55	56.00	17.45
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.437 MHz with corrected signal level of 44.18 dB (μV) (limit is 57.11 dB (μV)), when the VA of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-RSH-20W Humidity : 56%

Test Mode : ON Date of Test : May 11, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.160	0.22	54.42	54.64	65.46	10.82
	0.180	0.22	54.04	54.26	64.49	10.23
	0.205	0.22	51.91	52.13	63.41	11.28
	0.269	0.18	47.58	47.76	61.15	13.39
	0.327	0.14	48.34	48.48	59.53	11.05
	0.389	0.13	41.63	41.76	58.09	16.33
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.180 MHz with corrected signal level of 54.26 dB (μV) (limit is 64.49 dB (μV)), when the VA of the EUT is connected to LISN.						

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-RSH-30W Humidity : 56%

Test Mode : ON Date of Test : Apr 01, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.202	0.22	41.94	42.16	63.54	21.38
	0.240	0.20	40.61	40.81	62.08	21.27
	0.365	0.13	38.43	38.56	58.61	20.05
	0.406	0.13	38.33	38.46	57.73	19.27
	0.564	0.11	38.14	38.25	56.00	17.75
	1.088	0.10	37.04	37.14	56.00	18.86
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.564 MHz with corrected signal level of 38.25 dB (μV) (limit is 56.00 dB (μV)), when the VA of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-US-15W Humidity : 56%

Test Mode : ON Date of Test : Apr 11, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading Db(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.169	0.22	41.04	41.26	65.03	23.77
	0.339	0.14	38.67	38.81	59.22	20.41
	0.507	0.12	36.65	36.77	56.00	19.23
	0.679	0.11	33.93	34.04	56.00	21.96
	1.106	0.10	35.05	35.15	56.00	20.85
	2.809	0.16	34.95	35.11	56.00	20.89
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.507 MHz with corrected signal level of 36.77 dB (μV) (limit is 56.00 dB (μV)), when the VA of the EUT is connected to LISN.						

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-US-20W Humidity : 56%

Test Mode : ON Date of Test : Apr 11, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VB	0.199	0.20	42.42	42.62	63.67	21.05
	0.244	0.20	35.84	36.04	61.95	25.91
	0.294	0.20	39.00	39.20	60.41	21.21
	0.398	0.17	39.52	39.69	57.90	18.21
	0.589	0.15	39.03	39.18	56.00	16.82
	0.694	0.16	39.08	39.24	56.00	16.76
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.694 MHz with corrected signal level of 39.24 dB (μV) (limit is 56.00 dB (μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-US-30W Humidity : 56%

Test Mode : ON Date of Test : Apr 11, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VB	0.168	0.23	40.34	40.57	65.08	24.51
	0.252	0.20	40.64	40.84	61.69	20.85
	0.296	0.20	36.69	36.89	60.37	23.48
	0.377	0.18	37.51	37.69	58.34	20.65
	0.579	0.15	37.49	37.64	56.00	18.36
	0.968	0.16	39.22	39.38	56.00	16.62
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.968 MHz with corrected signal level of 39.38 dB (μV) (limit is 56.00 dB (μV)), when the VB of the EUT is connected to LISN.						

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-III-32W Humidity : 56%

Test Mode : ON Date of Test : Apr 12, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.155	0.22	54.27	54.49	65.74	11.25
	0.188	0.22	46.62	46.84	64.11	17.27
	0.226	0.21	46.58	46.79	62.61	15.82
	0.299	0.14	42.48	42.62	60.28	17.66
	0.377	0.13	40.21	40.34	58.34	18.00
	0.527	0.12	40.09	40.21	56.00	15.79
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.155 MHz with corrected signal level of 54.49 dB (μV) (limit is 65.74 dB (μV)), when the VA of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-III-40W Humidity : 56%

Test Mode : ON Date of Test : Apr 11, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VB	0.158	0.25	46.00	46.25	55.57	9.32
	0.212	0.20	47.10	47.30	53.13	5.83
	0.274	0.20	32.20	32.40	51.00	18.60
	0.313	0.20	33.50	33.70	49.89	16.19
	0.624	0.15	33.70	33.85	46.00	12.15
	0.984	0.16	31.60	31.76	46.00	14.24
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Average Values. NOTE 4 – The worst emission is detected at 0.212 MHz with corrected signal level of 47.30 dB (μV) (limit is 53.13 dB (μV)), when the VB of the EUT is connected to LISN.						

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-III-50W Humidity : 56%

Test Mode : ON Date of Test : Apr 11, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.168	0.22	54.84	55.06	65.07	10.01
	0.252	0.20	45.81	46.01	61.69	15.68
	0.343	0.13	39.51	39.64	59.13	19.49
	0.419	0.13	38.95	39.08	57.46	18.38
	0.686	0.11	43.09	43.20	56.00	12.80
	0.853	0.10	43.40	43.50	56.00	12.50
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Average Values. NOTE 4 – The worst emission is detected at 0.168 MHz with corrected signal level of 55.06 dB (μV) (limit is 65.07 dB (μV)), when the VA of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-IIIS-32W Humidity : 56%

Test Mode : ON Date of Test : Apr 10, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits Db(μV)	Margin (dB)
VA	0.164	0.22	54.90	55.12	65.26	10.14
	0.226	0.21	46.50	46.71	62.60	15.89
	0.230	0.21	45.70	45.91	62.45	16.54
	0.385	0.13	38.10	38.23	58.17	19.94
	0.499	0.12	34.90	35.02	56.02	21.00
	0.633	0.12	32.39	32.51	56.00	23.49
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.968 MHz with corrected signal level of 39.38 dB (μV) (limit is 56.00 dB (μV)), when the VA of the EUT is connected to LISN.						

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-IIIS-40W Humidity : 56%

Test Mode : ON Date of Test : Apr 11, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.165	0.22	52.39	52.61	65.21	12.60
	0.197	0.22	47.02	47.24	63.76	16.52
	0.228	0.21	45.69	45.90	62.52	16.62
	0.296	0.15	42.00	42.15	60.37	18.22
	0.589	0.11	36.97	37.08	56.00	18.92
	0.720	0.11	36.30	36.41	56.00	19.59
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Quasi-Peak Values. NOTE 4 – The worst emission is detected at 0.165 MHz with corrected signal level of 52.61 dB (μV) (limit is 65.21 dB (μV)), when the VA of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

EUT : Energy Saving Lamp Temperature : 23°C

Model No. : FE-IIIS-55W Humidity : 56%

Test Mode : ON Date of Test : Apr 11, 2003

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μ V)	Emission Level dB(μ V)	Limits dB(μ V)	Margin (dB)
VB	0.154	0.25	54.26	54.51	65.79	11.28
	0.190	0.21	46.67	46.88	64.02	17.14
	0.266	0.20	43.47	43.67	61.25	17.58
	0.377	0.18	41.12	41.30	58.34	17.04
	0.604	0.15	40.89	41.04	56.00	14.96
	0.775	0.16	39.94	40.10	56.00	15.90
NOTE 1 – Emission Level = Meter Reading + Factor NOTE 2 – Factor = Insertion Loss + Cable Loss NOTE 3 – All reading are Average Values. NOTE 4 – The worst emission is detected at 0.154 MHz with corrected signal level of 54.51 dB (μV) (limit is 65.79 dB (μV)), when the VB of the EUT is connected to LISN.						

TEST ENGINEER: Solon Gong
(SOLON GONG)

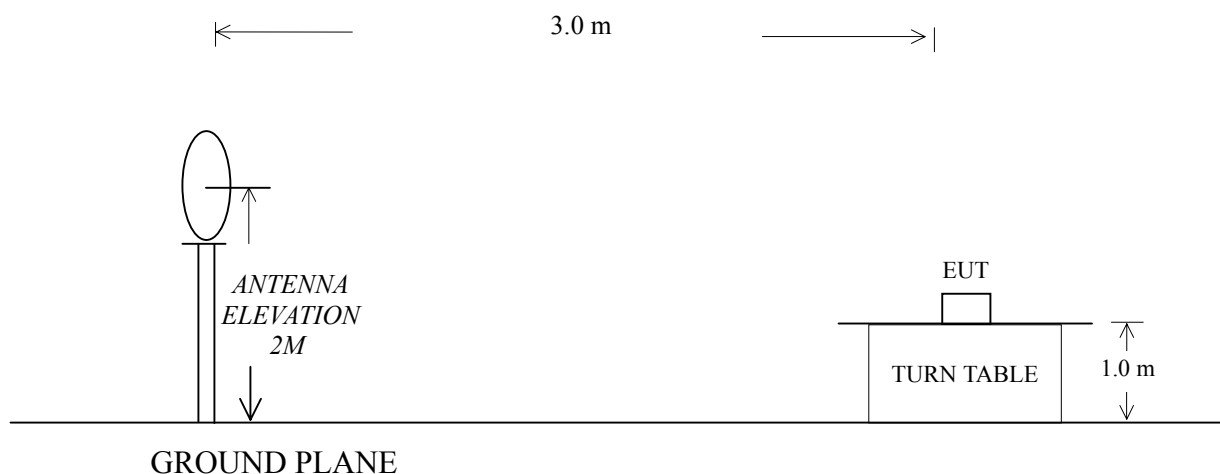
3 MAGNETIC FIELD EMISSION TEST

3.1 Test Equipment

The following test equipment are used during the field strength test in a shielded room:

Item	Type	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Loop Antenna	CHASE	HLA6120	1062	Jun 02, 03	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS10	844594/001	Apr 22, 03	1 Year

3.2 Block Diagram of Test Setup



3.3 Magnetic Emission Limit

^{120V/60Hz}
All emanations from Non-ISM frequency devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency (MHz)	Quasi-peak Electric Field Test Distance 3m dB(μ V/m)
0.009~30	63.5
NOTE 1— Distance refers to the distance in meters between the test antenna and the closed point of any part of the EUT.	

3.4 EUT Configuration on Test

The Fcc part 18 regulations test method must be used to find the maximum emission during Radiated Emission test.

The configuration of the EUT is same as used in conducted emission test. Please Refer to Section 2.4.

3.5 Operating Condition of EUT

3.5.1 Setup the EUT as shown on Section 3.2.

3.5.2 Turn on the power of all equipments.

3.5.3 Let the EUT work in test mode (ON) and test it.

3.6 Test Procedures

The EUT is placed on a table, which is 1.0 meter above ground. Measurements are performed at 3.0m distance with a 0.6m loop antenna as described in 2.2.4 of MP-5 . The antenna shall be with the lower edge of the loop at 2m height above the floor.

The bandwidth setting on the test receiver (R&S Test Receiver ESHS10) is 200Hz from 9kHz to 150kHz and 10kHz from 150kHz to 30MHz. The EUT is tested in a semi-anechoic chamber.

All the scanning waveforms are attached within Sec. 3.7.

3.7 Test Results

<PASS>

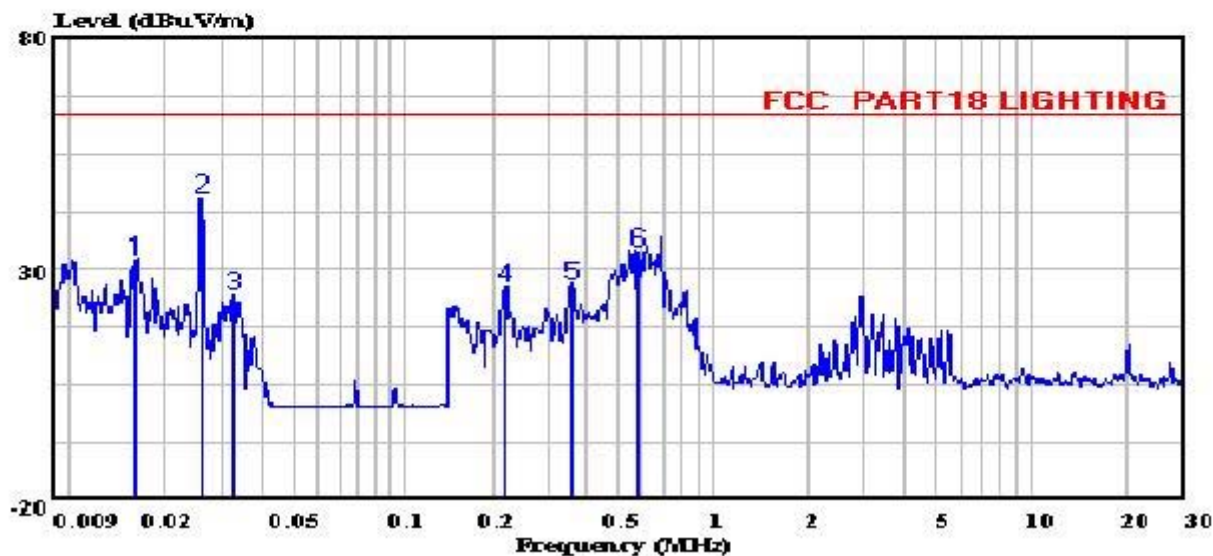
Refer to the following pages.



3F #34Bldg. No.680 GuiPing Rd.,
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aciemc@audix.com

Data#: 135 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 17:08:47



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-Z-3W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

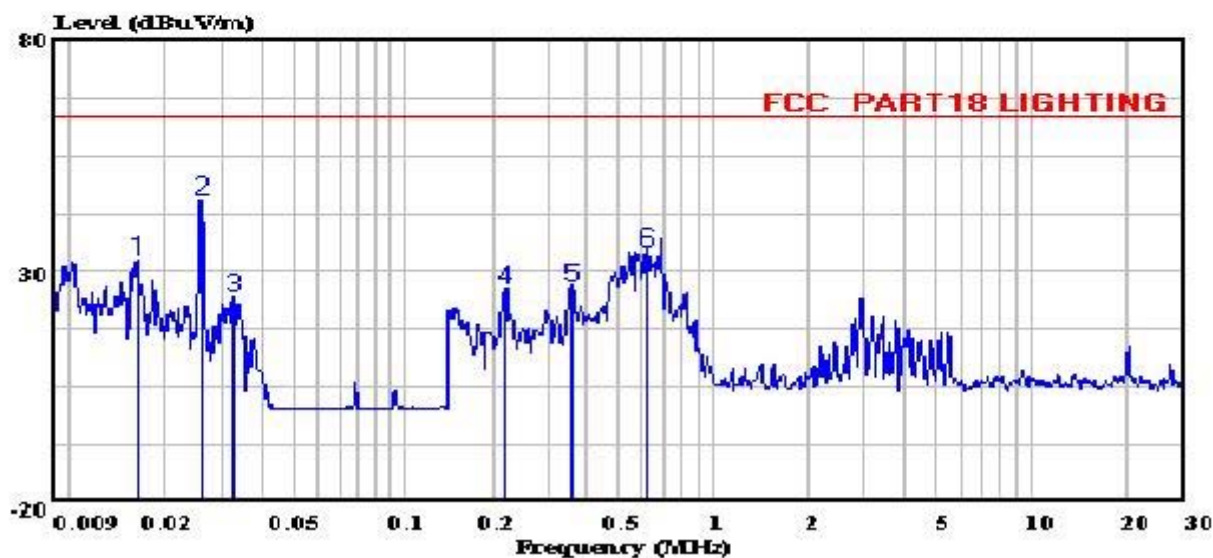
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Freq	Level	Level	Line	Limit	
MHz	dBuV	dBuV/m	dBuV/m		dB
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2	0.026	45.58	45.58	63.50	-17.92
3	0.033	24.57	24.57	63.50	-38.93
4	0.229	26.25	26.25	63.50	-37.25
5	0.370	26.65	26.65	63.50	-36.85
6	0.592	33.64	33.64	63.50	-29.86



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aciemc@audix.com

Data#: 134 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 17:08:47



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-Z-5W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

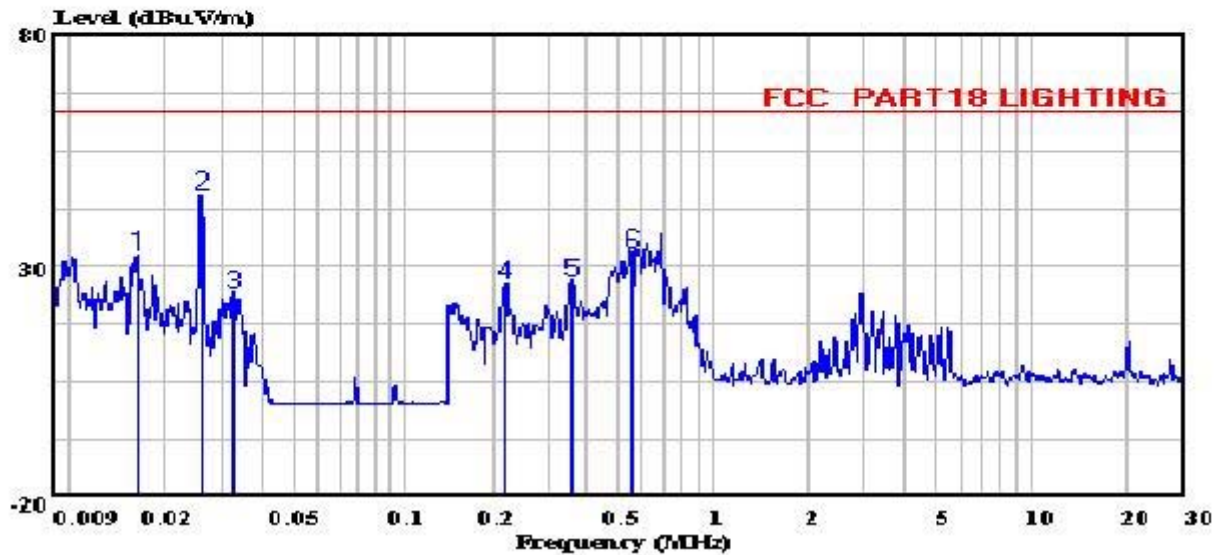
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	Freq	Level	Level	Line	Limit
	MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.016	32.28	32.28	63.50	-31.22
2	0.026	45.58	45.58	63.50	-17.92
3	0.033	24.57	24.57	63.50	-38.93
4	0.229	26.25	26.25	63.50	-37.25
5	0.370	26.65	26.65	63.50	-36.85
6	0.631	34.38	34.38	63.50	-29.12



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Data#: 133 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 17:08:47



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-Z-7W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

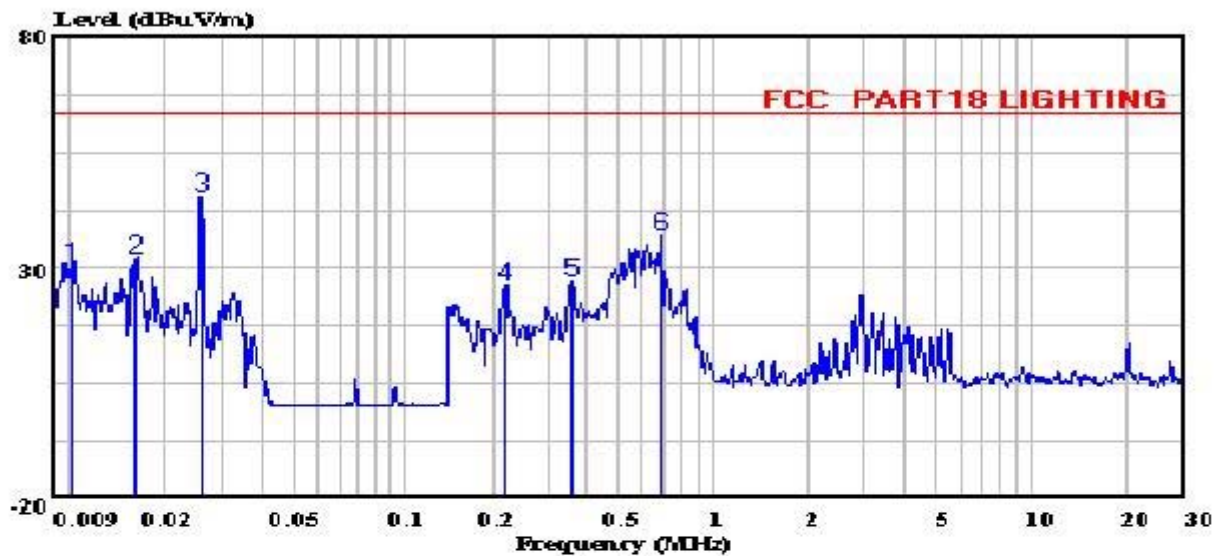
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Freq	Level	Level	Line	Limit
MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.016	32.28	32.28	63.50 -31.22
2	0.026	45.58	45.58	63.50 -17.92
3	0.032	24.14	24.14	63.50 -39.36
4	0.229	26.25	26.25	63.50 -37.25
5	0.367	26.50	26.50	63.50 -37.00
6	0.568	32.98	32.98	63.50 -30.52



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Data#: 136 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 17:08:47



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-ZM-4W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Salon Gong

Page: 1

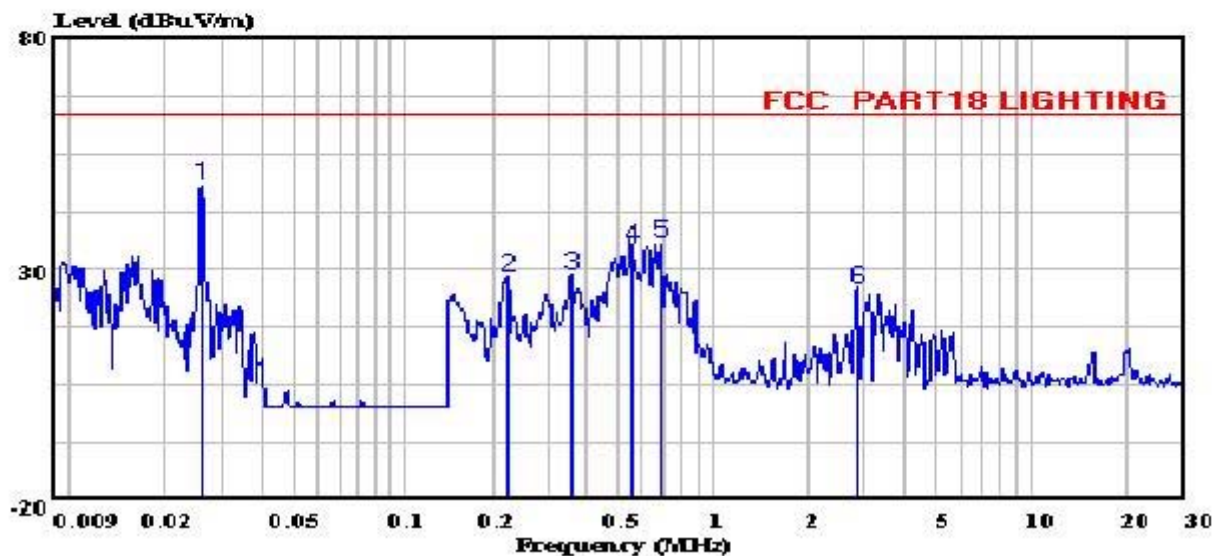
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Freq	Level	Level	Line	Limit	
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2	0.016	32.05	32.05	63.50	-31.45
3	0.026	45.58	45.58	63.50	-17.92
4	0.229	26.25	26.25	63.50	-37.25
5	0.373	26.95	26.95	63.50	-36.55
6	0.707	36.88	36.88	63.50	-26.62



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Data#: 114 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:55:26



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-RSF-15W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer: *Solon Gong*

Page: 1

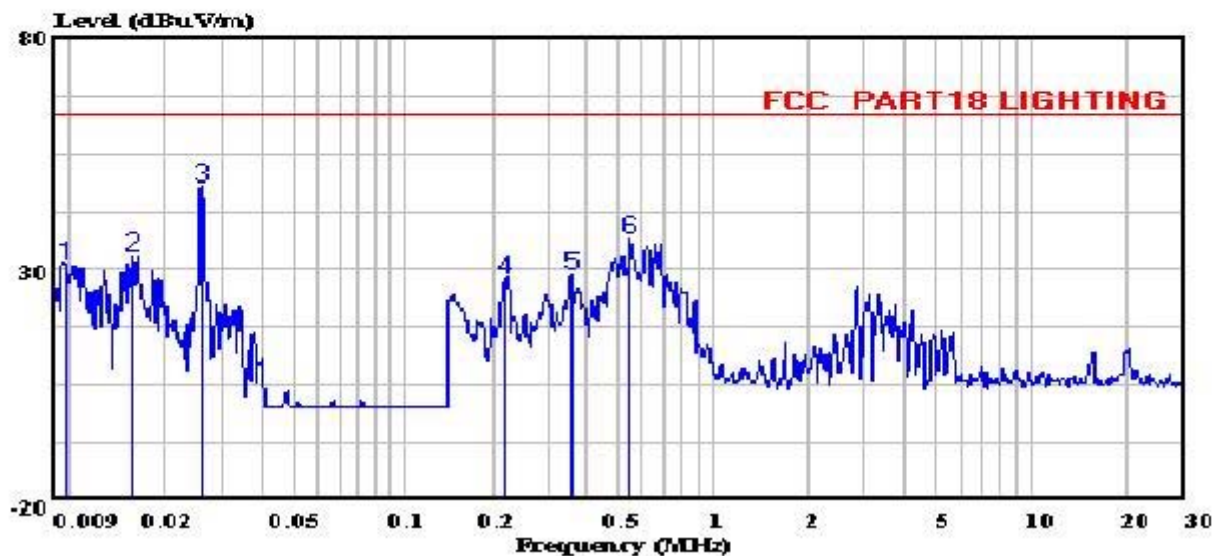
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	Freq	Level	Level	Line	Limit
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1	0.026	48.27	48.27	63.50	-15.23
2	0.235	28.26	28.26	63.50	-35.24
3	0.367	28.71	28.71	63.50	-34.79
4	0.573	34.65	34.65	63.50	-28.85
5	0.696	35.47	35.47	63.50	-28.03
6	2.854	25.60	25.60	63.50	-37.90



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Data#: 116 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:55:26



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-RSF-20W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

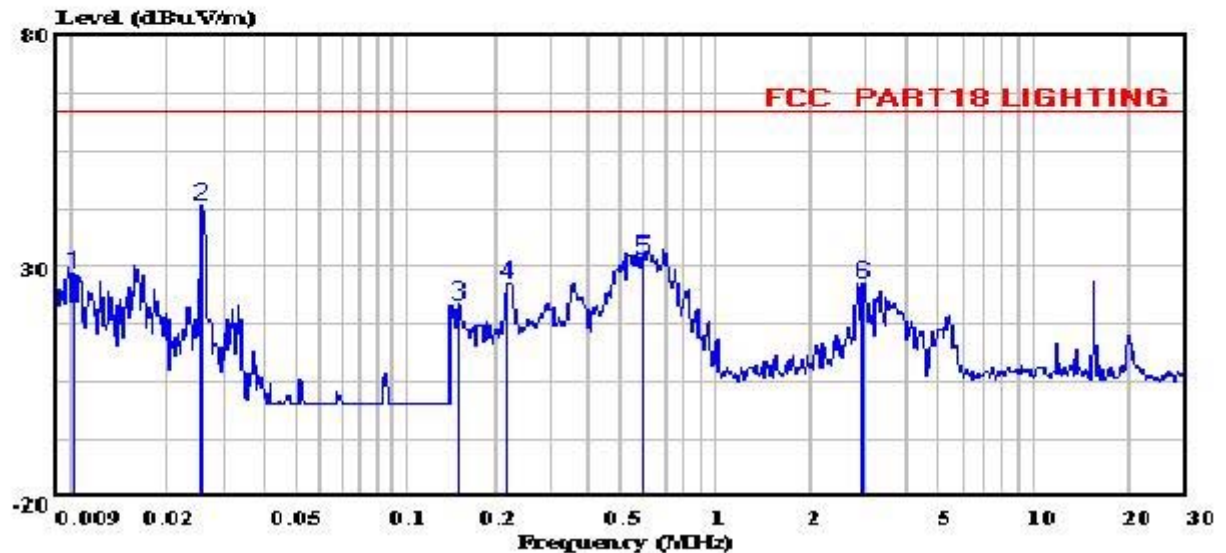
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2	0.016	32.90	32.90	63.50	-30.60
3	0.026	47.78	47.78	63.50	-15.72
4	0.229	28.10	28.10	63.50	-35.40
5	0.367	28.71	28.71	63.50	-34.79
6	0.564	36.32	36.32	63.50	-27.18



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Data#: 110 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:51:56



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-RSF-30W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

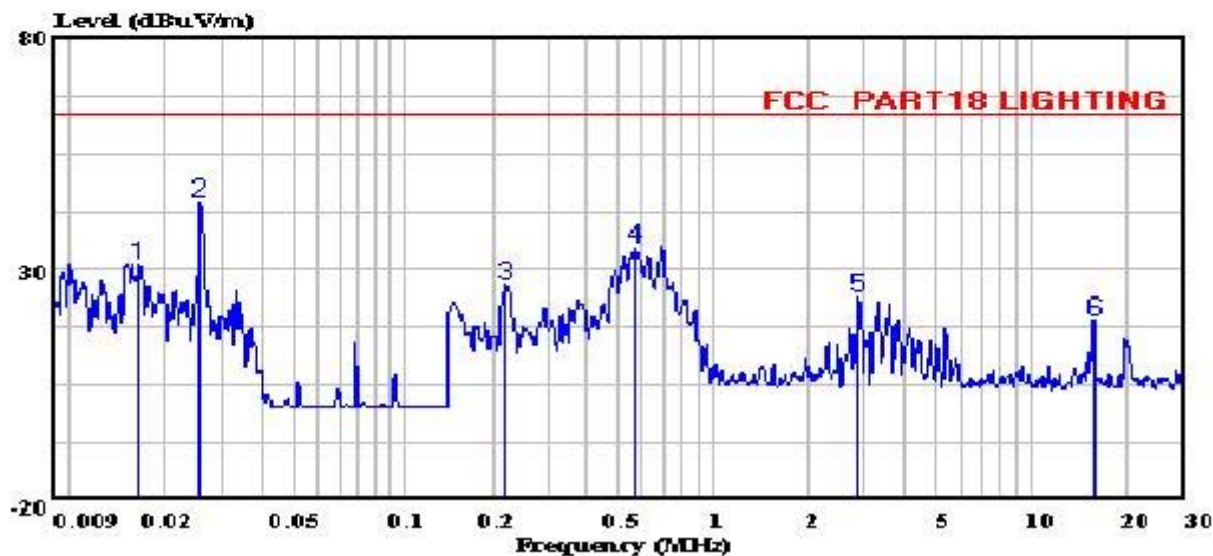
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	Freq	Level	Level	Line	Limit
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2	0.026	43.01	43.01	63.50	-20.49
3	0.160	21.69	21.69	63.50	-41.81
4	0.231	26.19	26.19	63.50	-37.31
5	0.606	31.76	31.76	63.50	-31.74
6	2.948	26.10	26.10	63.50	-37.40



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Data#: 123 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:58:17



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-RSH-15W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

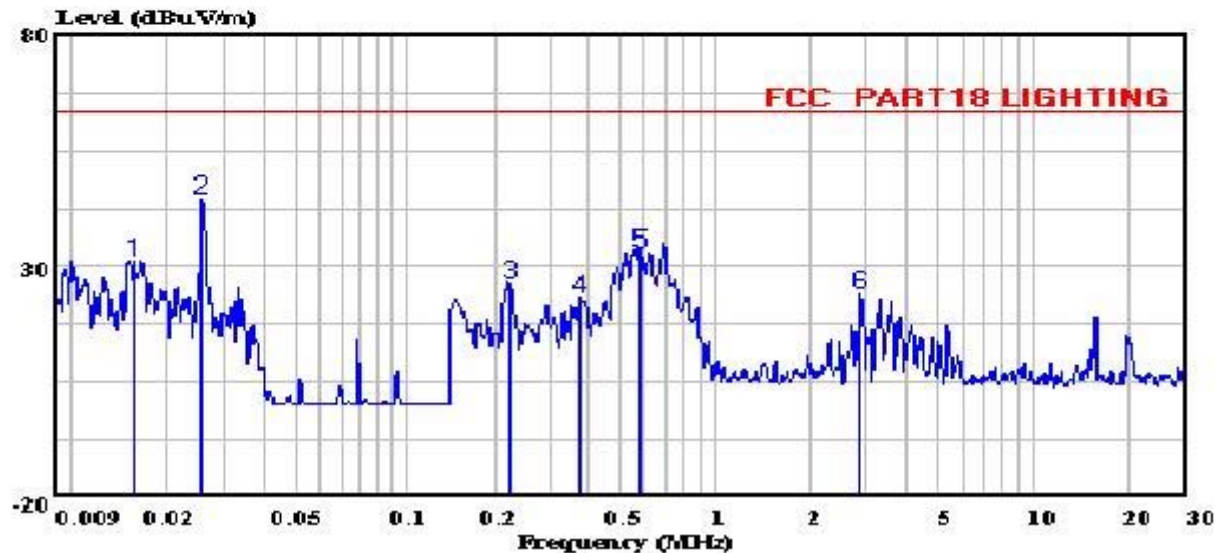
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	Freq	Level	Level	Line	Limit
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2	0.026	44.56	44.56	63.50	-18.94
3	0.229	26.48	26.48	63.50	-37.02
4	0.577	34.62	34.62	63.50	-28.88
5	2.901	23.90	23.90	63.50	-39.60
6	15.678	18.84	18.84	63.50	-44.66



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Data#: 121 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:58:17



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-RSH-20W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

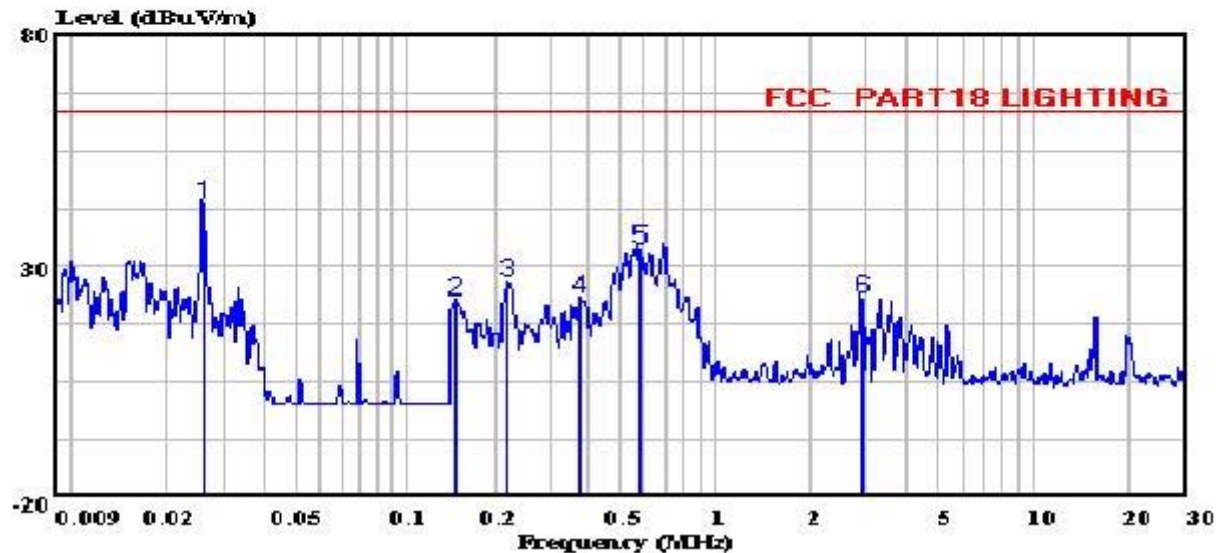
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	Freq	Level	Level	Line	Limit
	MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.016	31.32	31.32	63.50	-32.18
2	0.026	44.56	44.56	63.50	-18.94
3	0.235	25.98	25.98	63.50	-37.52
4	0.388	22.93	22.93	63.50	-40.57
5	0.596	33.12	33.12	63.50	-30.38
6	2.901	23.90	23.90	63.50	-39.60



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Data#: 118 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:58:17



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-RSH-30W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

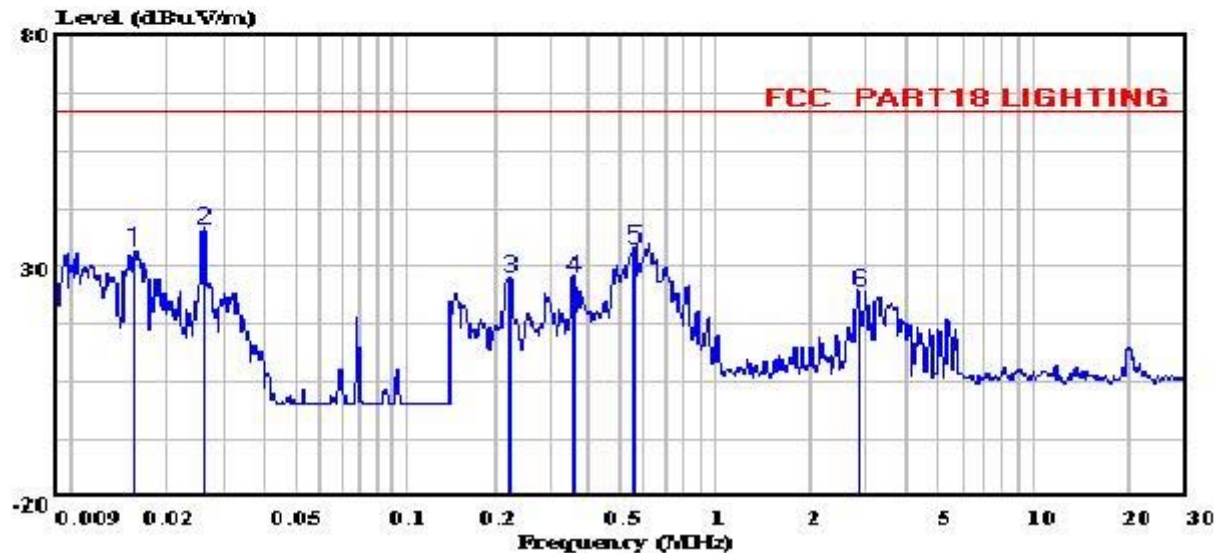
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	Freq	Level	Level	Line	Limit
	MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.026	43.89	43.89	63.50	-19.61
2	0.156	22.82	22.82	63.50	-40.68
3	0.229	26.48	26.48	63.50	-37.02
4	0.388	22.93	22.93	63.50	-40.57
5	0.592	33.82	33.82	63.50	-29.68
6	2.925	22.83	22.83	63.50	-40.67



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aciemc@audix.com

Data#: 71 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:06:37



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-US-15W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

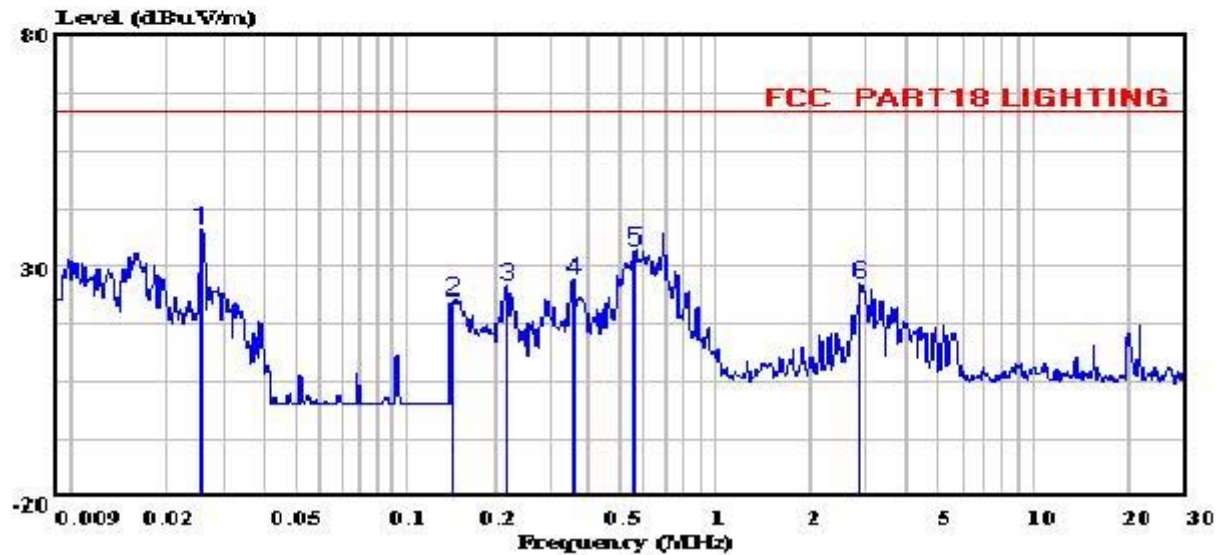
		Read		Limit	Over
	Freq	Level	Level	Line	Limit
	MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.016	33.35	33.35	63.50	-30.15
2	0.026	38.03	38.03	63.50	-25.47
3	0.235	27.42	27.42	63.50	-36.08
4	0.373	27.74	27.74	63.50	-35.76
5	0.573	33.81	33.81	63.50	-29.69
6	2.854	24.36	24.36	63.50	-39.14



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Data#: 67 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:03:59



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-US-20W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer: *Solon Gong*

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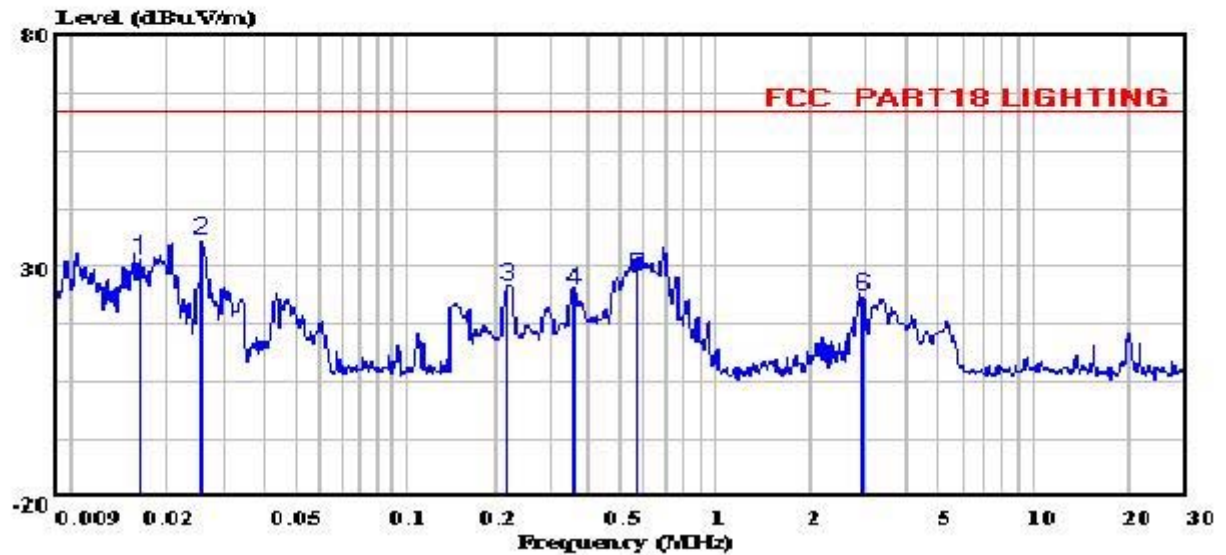
		Read		Limit	Over
	Freq	Level	Level	Line	Limit
	MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.026	37.72	37.72	63.50	-25.78
2	0.155	22.75	22.75	63.50	-40.75
3	0.229	25.77	25.77	63.50	-37.73
4	0.367	26.99	26.99	63.50	-36.51
5	0.573	33.15	33.15	63.50	-30.35
6	2.901	26.39	26.39	63.50	-37.11



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Data#: 65 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:00:24



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-US-30W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Salon Gong

Page: 1

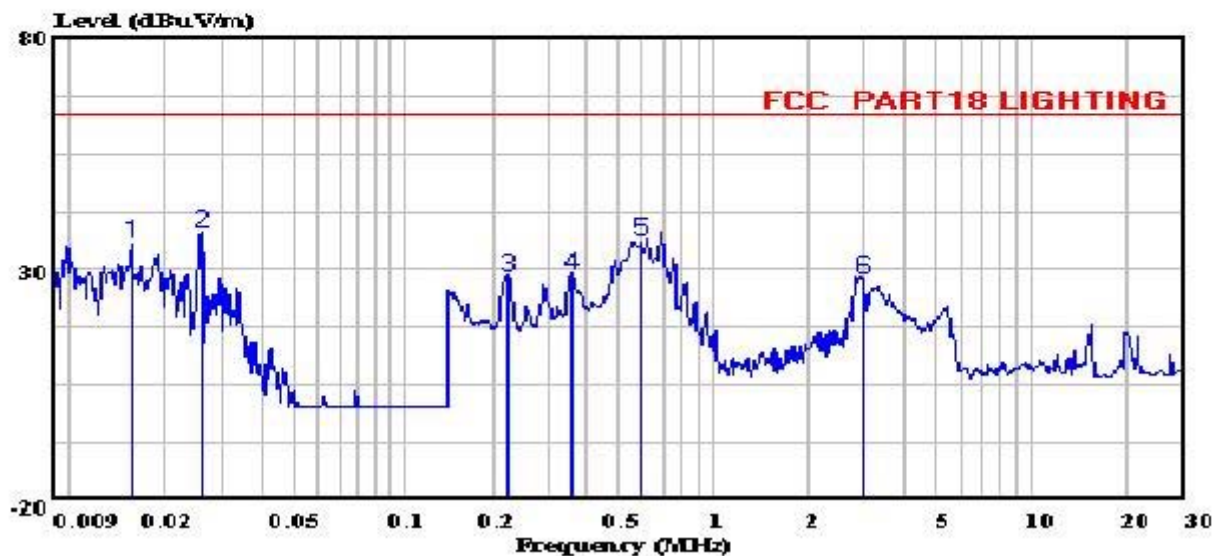
		Read		Limit	Over
	Freq	Level	Level	Line	Limit
	MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.016	31.51	31.51	63.50	-31.99
2	0.026	35.65	35.65	63.50	-27.85
3	0.231	25.74	25.74	63.50	-37.76
4	0.373	25.06	25.06	63.50	-38.44
5	0.587	28.17	28.17	63.50	-35.33
6	2.925	23.62	23.62	63.50	-39.88



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Data#: 59 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 15:51:12



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-III-32W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

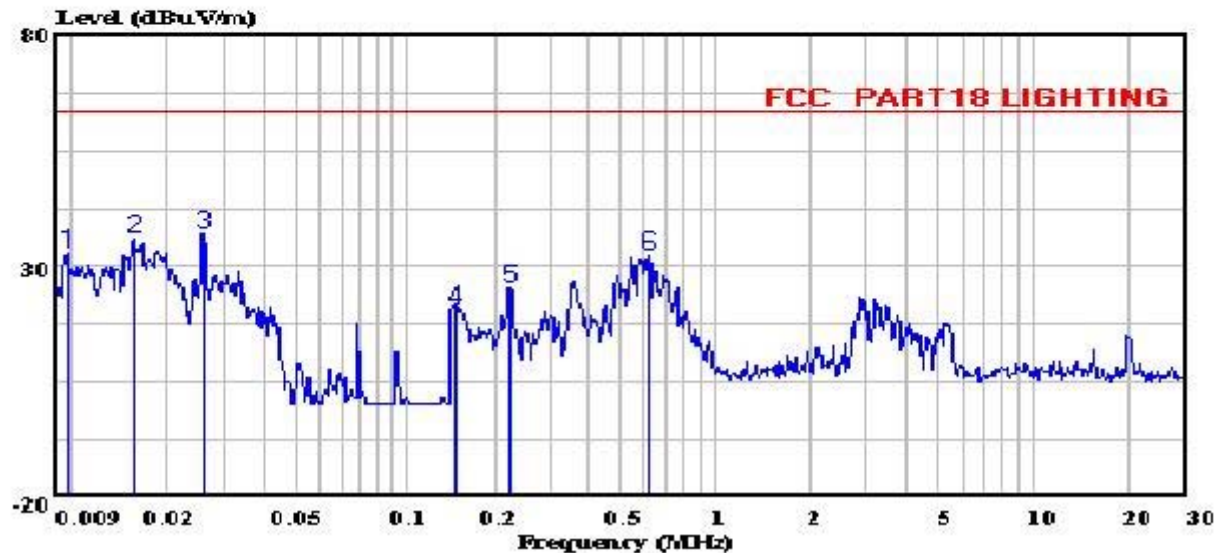
		Read	Limit	Over
Freq	Level	Level	Line	Limit
MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.016	35.71	35.71	63.50 -27.79
2	0.026	37.96	37.96	63.50 -25.54
3	0.235	28.49	28.49	63.50 -35.01
4	0.370	29.03	29.03	63.50 -34.47
5	0.606	35.93	35.93	63.50 -27.57
6	2.972	28.06	28.06	63.50 -35.44



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Data#: 63 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 15:54:43



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-III-40W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

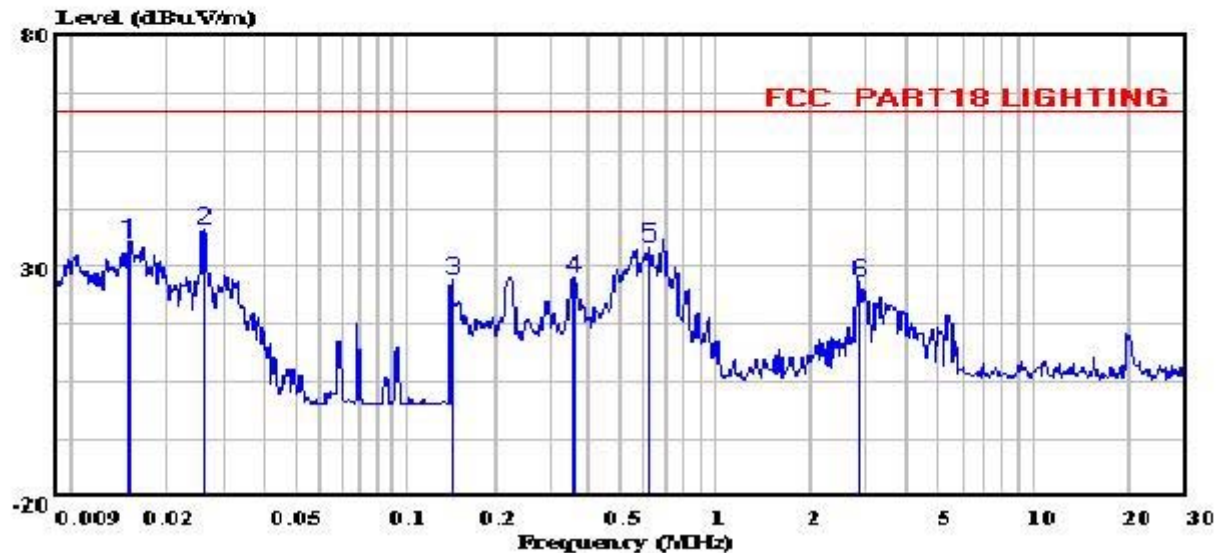
		Read		Limit	Over
	Freq	Level	Level	Line	Limit
	MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.010	32.74	32.74	63.50	-30.76
2	0.016	36.08	36.08	63.50	-27.42
3	0.026	37.13	37.13	63.50	-26.37
4	0.158	20.90	20.90	63.50	-42.60
5	0.235	25.31	25.31	63.50	-38.19
6	0.636	32.30	32.30	63.50	-31.20



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Data#: 57 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 15:45:36



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-III-50W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Salon Gong

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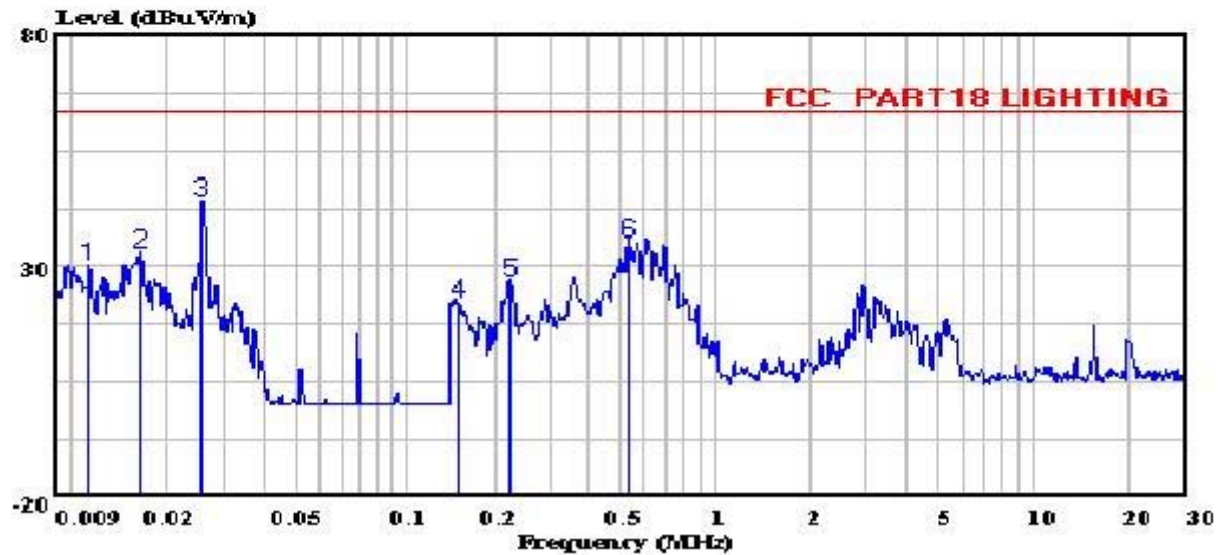
		Read	Limit	Over
Freq	Level	Level	Line	Limit
MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.015	34.94	34.94	63.50 -28.56
2	0.026	37.86	37.86	63.50 -25.64
3	0.154	27.06	27.06	63.50 -36.44
4	0.367	27.56	27.56	63.50 -35.94
5	0.636	34.17	34.17	63.50 -29.33
6	2.854	26.75	26.75	63.50 -36.75



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Data#: 77 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:15:54



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-IIIS-32W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Salon Gong

Page: 1

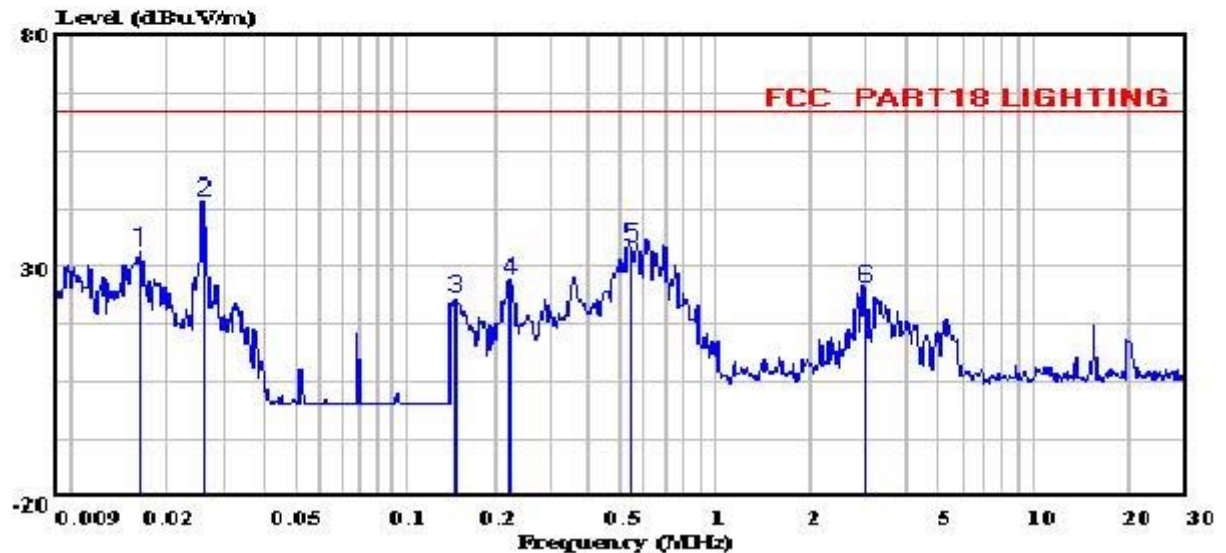
		Read	Limit	Over
Freq	Level	Level	Line	Limit
MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.011	30.25	30.25	63.50 -33.25
2	0.016	33.13	33.13	63.50 -30.37
3	0.026	44.06	44.06	63.50 -19.44
4	0.160	21.98	21.98	63.50 -41.52
5	0.235	26.50	26.50	63.50 -37.00
6	0.550	35.05	35.05	63.50 -28.45



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Data#: 79 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:15:54



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-IIIIS-40W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Salon Gong

Page: 1

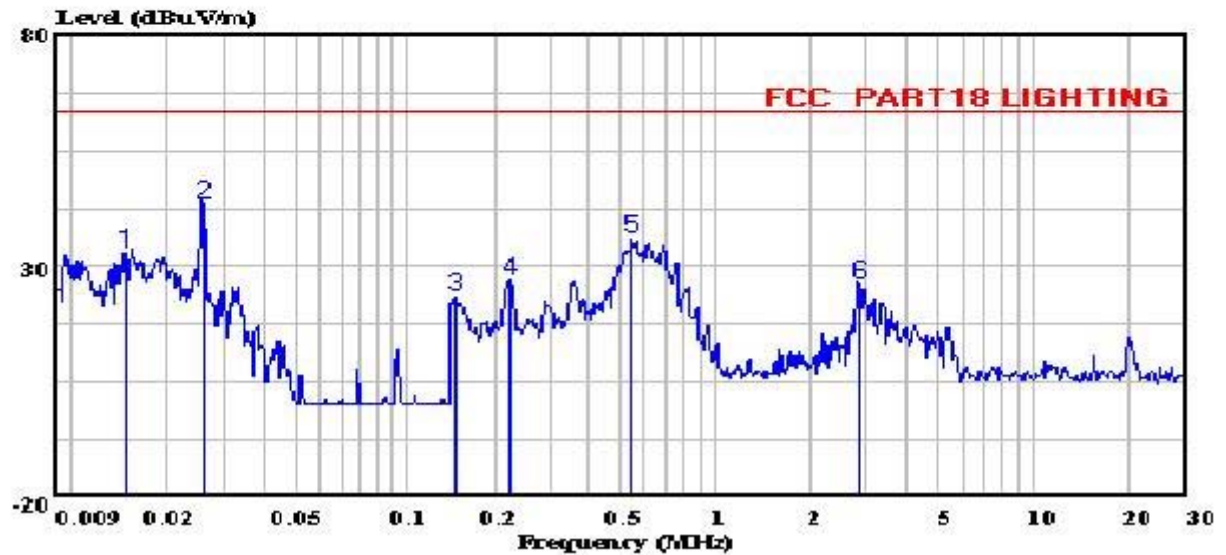
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	Freq	Level	Level	Line	Limit
	MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.016	33.16	33.16	63.50	-30.34
2	0.026	44.06	44.06	63.50	-19.44
3	0.158	22.89	22.89	63.50	-40.61
4	0.233	26.97	26.97	63.50	-36.53
5	0.554	34.23	34.23	63.50	-29.27
6	2.972	25.19	25.19	63.50	-38.31



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Data#: 74 File#: E:\EMI_TEST\Data\L\longstar.EMI

Date: 2003-05-11 Time: 16:12:28



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m
Project No. : AOE-000367
Applicant : XIAMEN LONGSTAR LIGHTING CO.,LTD
EUT : Energy Saving Lamp
M/N : FE-IIIIS-55W
Power Supply : 120V/60Hz
Ambient : 20.7C, 53%
Test Mode : on
S/N :
Test Engineer:

Solon Gong

Page: 1

		Read	Limit	Over
Freq	Level	Level	Line	Limit
MHz	dBuV	dBuV/m	dBuV/m	dB
1	0.015	32.74	32.74	63.50 -30.76
2	0.026	43.47	43.47	63.50 -20.03
3	0.158	23.44	23.44	63.50 -40.06
4	0.233	27.04	27.04	63.50 -36.46
5	0.564	36.03	36.03	63.50 -27.47
6	2.854	26.02	26.02	63.50 -37.48