

Application for FCC Certificate
On Behalf of
Fujian Joinluck Electronic Enterprise Co., Ltd.

Energy Saving Lamp

Model No.:	Globe T3S 11W	Globe T3S 9W
	A-Type T3S 11W	A-Type T3S 9W
	R20 T3S 11W	R20 T3S 9W
	Tubular T3S 11W	Tubular T3S 9W

Serial No.:	F04050901	F04050902
	F04050903	F04050904
	F04050905	F04050906
	F04050907	F04050908

FCC ID: N6AFJEE0402

Prepared For :Fujian Joinluck Electronic Enterprise Co., Ltd.
Cangshan Industrial Area, Cangshan District,
Fuzhou, Fujian, China.

Prepared By :Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F04037
Date of Test : May 22, 2004
Date of Report : May 27, 2004

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TEST REPORT FOR FCC CERTIFICATE

Applicant : Fujian Joinluck Electronic Enterprise Co., Ltd.
Manufacturer : Fujian Joinluck Electronic Enterprise Co., Ltd.
EUT Description : Energy Saving Lamp
(A) Model No. : Globe T3S 11W, Globe T3S 9W,
A-Type T3S 11W, A-Type T3S 9W,
R20 T3S 11W, R20 T3S 9W,
Tubular T3S 11W, Tubular T3S 9W
(B) Serial No. : F04050901, F04050902,
F04050903, F04050904,
F04050905, F04050906,
F04050907, F04050908
(C) Power Supply : 120V/60Hz

Test Procedure Used:

FCC RULES AND REGULATIONS PART 18 CONSUMER DEVICES (2003.10)
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 (Please see the EUT Description above), which was tested in 3m anechoic chamber on May 22, 2004, 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 contains data that are not covered by the NVLAP accreditation.

This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : May 22, 2004

Prepared by : Cathrin Yin 2004.05.31 Test Engineer : Harry Zhao 2004.05.31
CATHRIN YIN HARRY ZHAO
(Assistant) For and on behalf of
Audix Technology (Shanghai) Co., Ltd. (Engineer)

Reviewer : Sammy Chen 2004.05.31 Approved Signatory : Byron Kwo 2004.05.31
SAMMY CHEN BYRON KWO
(Engineer) Authorized Signatory (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 : Globe T3S 11W, Globe T3S 9W,
A-Type T3S 11W, A-Type T3S 9W,
R20 T3S 11W, R20 T3S 9W,
Tubular T3S 11W, Tubular T3S 9W
Except the outward appearance, they are the same. The
Circuit Card Copper Traces are in agreement with the
schematic.

Serial Number : F04050901, F04050902,
F04050903, F04050904,
F04050905, F04050906,
F04050907, F04050908

Applicant : Fujian Joinluck Electronic Enterprise Co., Ltd.
Cangshan Industrial Area, Cangshan District,
Fuzhou, Fujian, China.

Manufacturer : Fujian Joinluck Electronic Enterprise Co., Ltd.
Cangshan Industrial Area, Cangshan District,
Fuzhou, Fujian, China.

Test Model	Apparent Power (V • A)	Real Power (W)	Test Model	Apparent Power (V • A)	Real Power (W)
Globe T3S 11W	18.93	10.70	Globe T3S 9W	17.69	9.78
A-Type T3S 11W	18.79	10.65	A-Type T3S 9W	17.58	9.56
R20 T3S 11W	19.04	10.91	R20 T3S 9W	17.22	9.57
Tubular T3S 11W	19.08	10.87	Tubular T3S 9W	17.14	9.34

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 : $U = \pm 2.66\text{dB}$

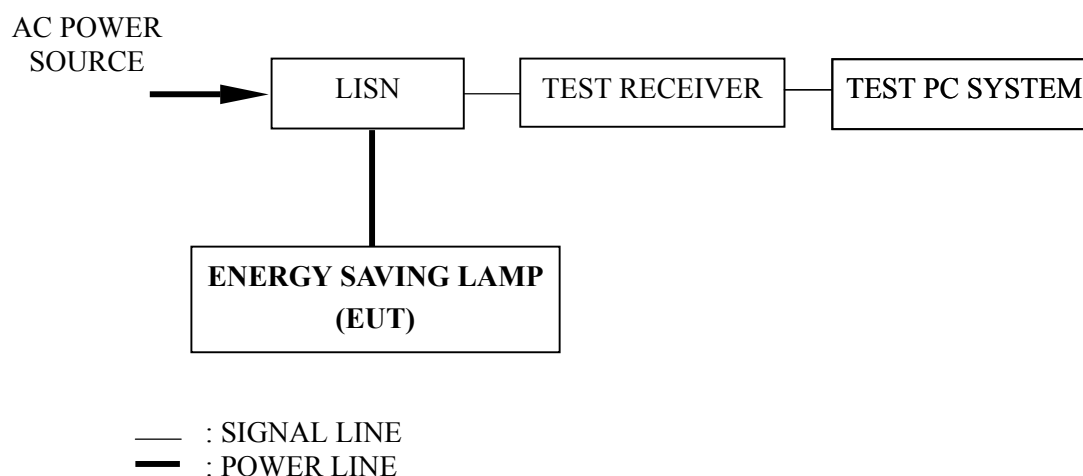
2 AC POWERLINE CONDUCTED EMISSION TEST

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 20, 2004	1 Year
2.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-5	Apr 27, 2004	1 Year
3.	50Ω Coaxial Switch	ANRITSU	MP59B	M74689	Mar 21, 2004	1/2 Year
4.	Software	Audix	E3	SET00200 9804M592	-	-

2.2 Block Diagram of Test Setup



2.3 Conducted Emission Limits

Frequency (MHz)	Maximum RF Line Voltage	
	(μ V)	dB(μ V)
0.45 ~ 2.51	250	48
2.51 ~ 3	3000	70
3 ~ 30	250	48
NOTE 1 – RF Line Voltage dB (μ V) = 20 log RF Line Voltage (μ V) NOTE 2 – The tighter limits shall apply at the boundary between two frequency ranges.		

2.4 Test Configuration

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 450 kHz to 30 MHz was checked.

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

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.

The worse case is for Tubular T3S 9W. The worst emission is detected at 1.012 MHz with corrected signal level of 40.05 dB(μ V) (limit is 48.00 dB(μ V)), when the VA of the EUT is connected to LISN.

EUT : Energy Saving Lamp Temperature : 21.8°C

Model No. : Globe T3S 11W Humidity : 53%

Serial No. : F04050901 Date of Test : May 22, 2004

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μ V)	Emission Level dB(μ V)	Limits dB(μ V)	Margin (dB)
VA	0.479	0.13	33.89	34.02	48.00	13.98
	0.614	0.12	32.89	33.01	48.00	14.99
	0.742	0.13	32.87	33.00	48.00	15.00
	1.021	0.11	33.30	33.41	48.00	14.59
	1.319	0.12	36.29	36.41	48.00	11.59
	1.606	0.13	33.63	33.76	48.00	14.24
VB	0.467	0.17	34.75	34.92	48.00	13.08
	0.544	0.16	33.86	34.02	48.00	13.98
	0.714	0.18	32.90	33.08	48.00	14.92
	0.958	0.17	32.62	32.79	48.00	15.21
	1.297	0.18	32.97	33.15	48.00	14.85
	1.689	0.20	29.04	29.24	48.00	18.76
NOTE 1 - Probe Factor means insertion loss of LISN. NOTE 2 - Factor = Cable Loss + Probe Factor. NOTE 3 - Emission Level = Meter Reading + Factor. NOTE 4 - All readings are Quasi-Peak Values.						

TEST ENGINEER: Harry Zhao
(HARRY ZHAO)

EUT : Energy Saving Lamp Temperature : 21.8°C

Model No. : Globe T3S 9W Humidity : 53%

Serial No. : F04050902 Date of Test : May 22, 2004

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.456	0.13	31.00	31.13	48.00	16.87
	0.594	0.12	31.19	31.31	48.00	16.69
	0.739	0.13	28.73	28.86	48.00	19.14
	0.848	0.12	27.71	27.83	48.00	20.17
	1.056	0.11	26.66	26.77	48.00	21.23
	1.428	0.13	24.47	24.60	48.00	23.40
VB	0.489	0.16	30.68	30.84	48.00	17.16
	0.594	0.17	31.96	32.13	48.00	15.87
	0.841	0.17	29.63	29.80	48.00	18.20
	1.228	0.18	28.48	28.66	48.00	19.34
	1.593	0.19	23.58	23.77	48.00	24.23
	2.058	0.21	22.39	22.60	48.00	25.40
NOTE 1 - Probe Factor means insertion loss of LISN. NOTE 2 - Factor = Cable Loss + Probe Factor. NOTE 3 - Emission Level = Meter Reading + Factor. NOTE 4 - All readings are Quasi-Peak Values.						

TEST ENGINEER: Harry Zhao
(HARRY ZHAO)

EUT : Energy Saving Lamp Temperature : 21.8°C

Model No. : A-Type T3S 11W Humidity : 53%

Serial No. : F04050903 Date of Test : May 22, 2004

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.569	0.13	34.77	34.90	48.00	13.10
	0.754	0.13	32.71	32.84	48.00	15.16
	0.838	0.12	33.26	33.38	48.00	14.62
	1.096	0.11	33.69	33.80	48.00	14.20
	1.358	0.12	31.79	31.91	48.00	16.09
	1.932	0.15	25.44	25.59	48.00	22.41
VB	0.557	0.16	35.66	35.82	48.00	12.18
	0.754	0.18	34.74	34.92	48.00	13.08
	1.004	0.17	36.83	37.00	48.00	11.00
	1.187	0.18	34.55	34.73	48.00	13.27
	1.521	0.19	32.50	32.69	48.00	15.31
	2.007	0.21	25.82	26.03	48.00	21.97
NOTE 1 - Probe Factor means insertion loss of LISN. NOTE 2 - Factor = Cable Loss + Probe Factor. NOTE 3 - Emission Level = Meter Reading + Factor. NOTE 4 - All readings are Quasi-Peak Values.						

TEST ENGINEER: Harry Zhao
(HARRY ZHAO)

EUT : Energy Saving Lamp Temperature : 21.8°C

Model No. : A-Type T3S 9W Humidity : 53%

Serial No. : F04050904 Date of Test : May 22, 2004

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits Db(μV)	Margin (dB)
VA	0.523	0.13	35.63	35.76	48.00	12.24
	0.696	0.13	36.55	36.68	48.00	11.32
	0.824	0.12	34.09	34.21	48.00	13.79
	1.056	0.11	32.76	32.87	48.00	15.13
	1.177	0.12	32.60	32.72	48.00	15.28
	1.560	0.13	25.96	26.09	48.00	21.91
VB	0.475	0.16	39.13	39.29	48.00	8.71
	0.604	0.17	32.84	33.01	48.00	14.99
	0.736	0.18	33.87	34.05	48.00	13.95
	1.056	0.17	34.37	34.54	48.00	13.46
	1.308	0.18	28.99	29.17	48.00	18.83
	2.024	0.21	24.37	24.58	48.00	23.42
NOTE 1 - Probe Factor means insertion loss of LISN. NOTE 2 - Factor = Cable Loss + Probe Factor. NOTE 3 - Emission Level = Meter Reading + Factor. NOTE 4 - All readings are Quasi-Peak Values.						

TEST ENGINEER: Harry Zhao
(HARRY ZHAO)

EUT : Energy Saving Lamp Temperature : 21.8°C

Model No. : R20 T3S 11W Humidity : 53%

Serial No. : F04050905 Date of Test : May 22, 2004

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μ V)	Emission Level dB(μ V)	Limits dB(μ V)	Margin (dB)
VA	0.463	0.13	37.24	37.37	48.00	10.63
	0.567	0.13	36.41	36.54	48.00	11.46
	0.638	0.13	33.99	34.12	48.00	13.88
	0.966	0.11	32.74	32.85	48.00	15.15
	1.496	0.13	34.71	34.84	48.00	13.16
	1.740	0.14	25.60	25.74	48.00	22.26
VB	0.463	0.17	37.46	37.63	48.00	10.37
	0.562	0.16	36.28	36.44	48.00	11.56
	0.665	0.18	34.42	34.60	48.00	13.40
	0.927	0.17	30.26	30.43	48.00	17.57
	1.286	0.18	31.21	31.39	48.00	16.61
	1.580	0.19	28.33	28.52	48.00	19.48
NOTE 1 - Probe Factor means insertion loss of LISN. NOTE 2 - Factor = Cable Loss + Probe Factor. NOTE 3 - Emission Level = Meter Reading + Factor. NOTE 4 - All readings are Quasi-Peak Values.						

TEST ENGINEER: Harry Zhao
(HARRY ZHAO)

EUT : Energy Saving Lamp Temperature : 21.8°C

Model No. : R20 T3S 9W Humidity : 53%

Serial No. : F04050906 Date of Test : May 22, 2004

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.471	0.13	36.59	36.72	48.00	11.28
	0.589	0.13	33.42	33.55	48.00	14.45
	0.723	0.13	35.08	35.21	48.00	12.79
	0.987	0.11	34.15	34.26	48.00	13.74
	1.134	0.12	35.88	36.00	48.00	12.00
	1.254	0.12	31.31	31.43	48.00	16.57
VB	0.456	0.17	35.81	35.98	48.00	12.02
	0.523	0.16	34.43	34.59	48.00	13.41
	0.665	0.18	32.89	33.07	48.00	14.93
	1.021	0.17	33.62	33.79	48.00	14.21
	1.115	0.18	32.05	32.23	48.00	15.77
	1.243	0.18	30.03	30.21	48.00	17.79
NOTE 1 - Probe Factor means insertion loss of LISN. NOTE 2 - Factor = Cable Loss + Probe Factor. NOTE 3 - Emission Level = Meter Reading + Factor. NOTE 4 - All readings are Quasi-Peak Values.						

TEST ENGINEER: Harry Zhao
(HARRY ZHAO)

EUT : Energy Saving Lamp Temperature : 21.8°C

Model No. : Tubular T3S 11W Humidity : 53%

Serial No. : F04050907 Date of Test : May 22, 2004

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.460	0.13	38.80	38.93	48.00	9.07
	0.567	0.13	37.66	37.79	48.00	10.21
	0.679	0.13	36.31	36.44	48.00	11.56
	0.841	0.12	36.45	36.57	48.00	11.43
	1.012	0.11	39.94	40.05	48.00	7.95
	1.243	0.12	37.21	37.33	48.00	10.67
VB	0.460	0.17	37.60	37.77	48.00	10.23
	0.557	0.16	36.72	36.88	48.00	11.12
	0.723	0.18	33.68	33.86	48.00	14.14
	0.885	0.17	33.38	33.55	48.00	14.45
	1.012	0.17	33.87	34.04	48.00	13.96
	1.105	0.17	36.55	36.72	48.00	11.28
NOTE 1 - Probe Factor means insertion loss of LISN. NOTE 2 - Factor = Cable Loss + Probe Factor. NOTE 3 - Emission Level = Meter Reading + Factor. NOTE 4 - All readings are Quasi-Peak Values.						

TEST ENGINEER: Harry Zhao
(HARRY ZHAO)

EUT : Energy Saving Lamp Temperature : 21.8°C

Model No. : Tubular T3S 9W Humidity : 53%

Serial No. : F04050908 Date of Test : May 22, 2004

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μ V)	Emission Level dB(μ V)	Limits dB(μ V)	Margin (dB)
VA	0.487	0.13	34.69	34.82	48.00	13.18
	0.599	0.12	36.32	36.44	48.00	11.56
	0.817	0.12	35.55	35.67	48.00	12.33
	0.995	0.11	34.97	35.08	48.00	12.92
	1.124	0.12	36.42	36.54	48.00	11.46
	1.381	0.13	30.63	30.76	48.00	17.24
VB	0.479	0.16	36.44	36.60	48.00	11.40
	0.589	0.16	34.96	35.12	48.00	12.88
	0.934	0.17	34.87	35.04	48.00	12.96
	1.029	0.17	36.15	36.32	48.00	11.68
	1.207	0.18	34.27	34.45	48.00	13.55
	1.506	0.19	27.33	27.52	48.00	20.48
NOTE 1 - Probe Factor means insertion loss of LISN. NOTE 2 - Factor = Cable Loss + Probe Factor. NOTE 3 - Emission Level = Meter Reading + Factor. NOTE 4 - All readings are Quasi-Peak Values.						

TEST ENGINEER: Harry Zhao
(HARRY ZHAO)

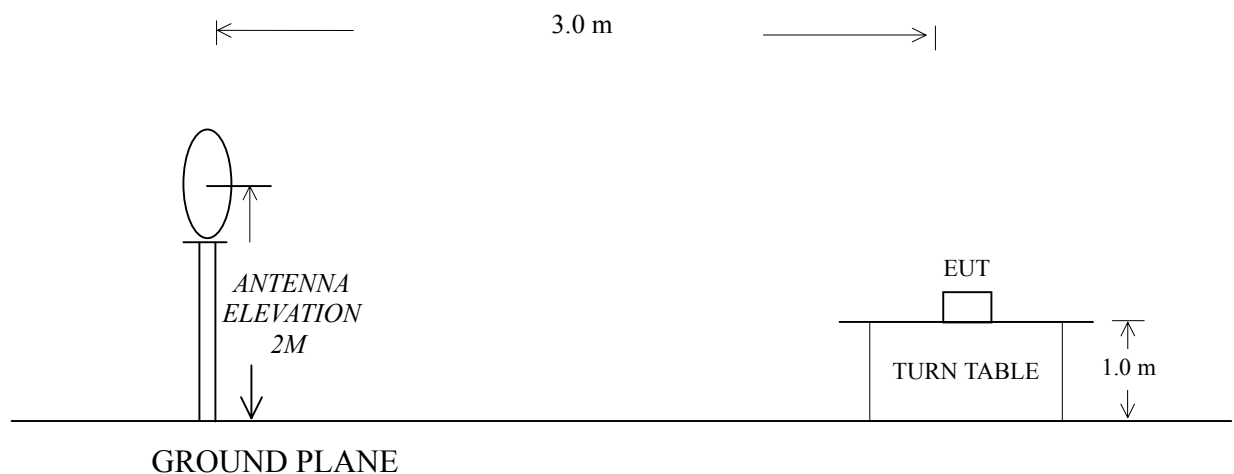
3 MAGNETIC FIELD EMISSION TEST

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	1193	Aug 06, 2003	1 Year
2.	Test Receiver	Rohde & Schwarz	ESVS10	844594/001	Apr 20, 2004	1 Year
3.	50 Ω Coaxial Switch	ANRITSU	MP59B	M73389	Mar 21, 2004	1/2 Year
4.	Software	Audix	E3	SET00200 9912M295-2	-	-

3.2 Block Diagram of Test Setup



3.3 Magnetic Field Emission Limit

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 (Lighting) 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

NOTE 1 - Probe Factor means antenna factor (of the 0.6m Loop Antenna).

NOTE 2 - Factor = Probe Factor + Cable Loss

NOTE 3 - Level = Read Level+ Factor

NOTE 4 - All reading are Quasi-Peak values.

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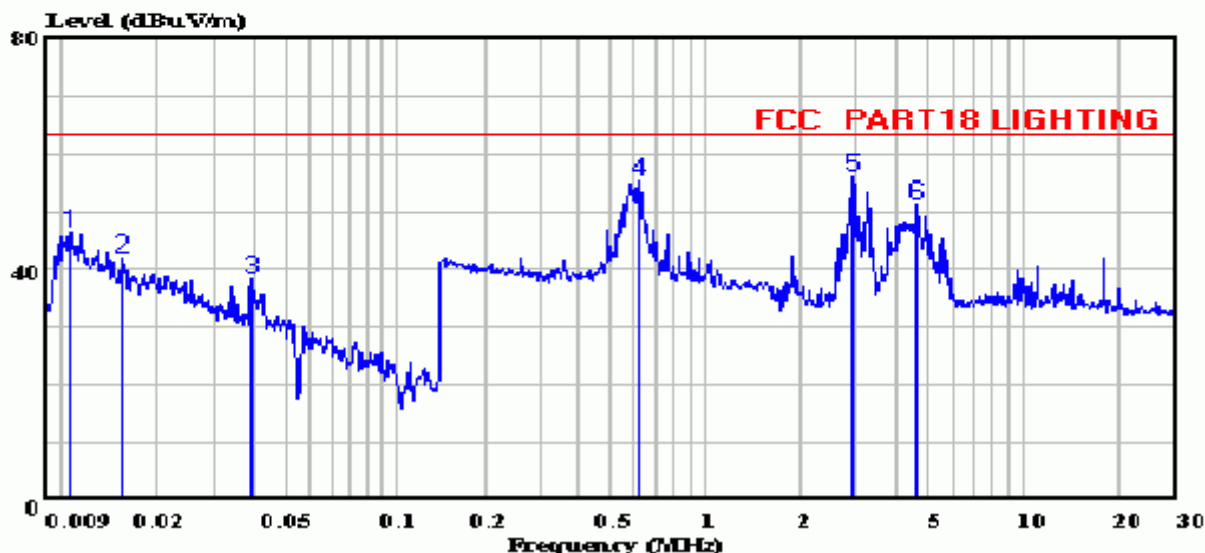
Refer to the following pages.



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Data#: 107 File#: D:\EMI_TEST\Data\J\joinluck.emi

Date: 2004-05-22 Time: 11:57:54



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m HLA6120
Project No : AOE-000650
Applicant : Fujian Joinluck Electronic Enterprise
: Co.,Ltd
EUT : Energy Saving Lamp
M/N : Globe T3S 11W
S/N : F04050901
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Mode : Lighting
Test Engineer: *Harry Zhao*

Page: 1

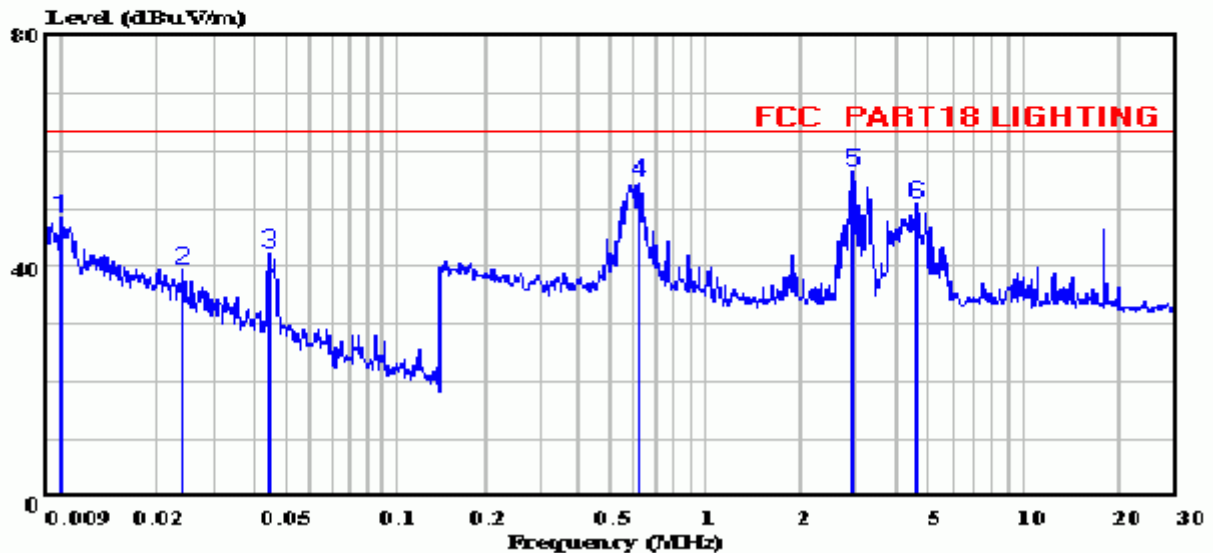
		Read		Limit	Over	Cable	Probe	
	Freq	Level	Level	Line	Limit	Loss	Factor	Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	0.011	25.58	46.39	63.50	-17.11	0.11	20.70	20.81
2	0.015	20.98	41.81	63.50	-21.69	0.14	20.69	20.83
3	0.039	17.90	38.53	63.50	-24.97	0.22	20.41	20.63
4	0.636	34.88	55.33	63.50	-8.17	0.45	20.00	20.45
5	2.925	35.33	55.91	63.50	-7.59	0.58	20.00	20.58
6	4.681	30.79	51.41	63.50	-12.09	0.62	20.00	20.62



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Data#: 109 File#: D:\EMI_TEST\Data\J\joinluck.emi

Date: 2004-05-22 Time: 12:02:37



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m HLA6120
Project No : AOE-000650
Applicant : Fujian Joinluck Electronic Enterprise
: Co.,Ltd
EUT : Energy Saving Lamp
M/N : Globe T3S 9W
S/N : F04050902
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Mode : Lighting
Test Engineer: *Harry Zhao*

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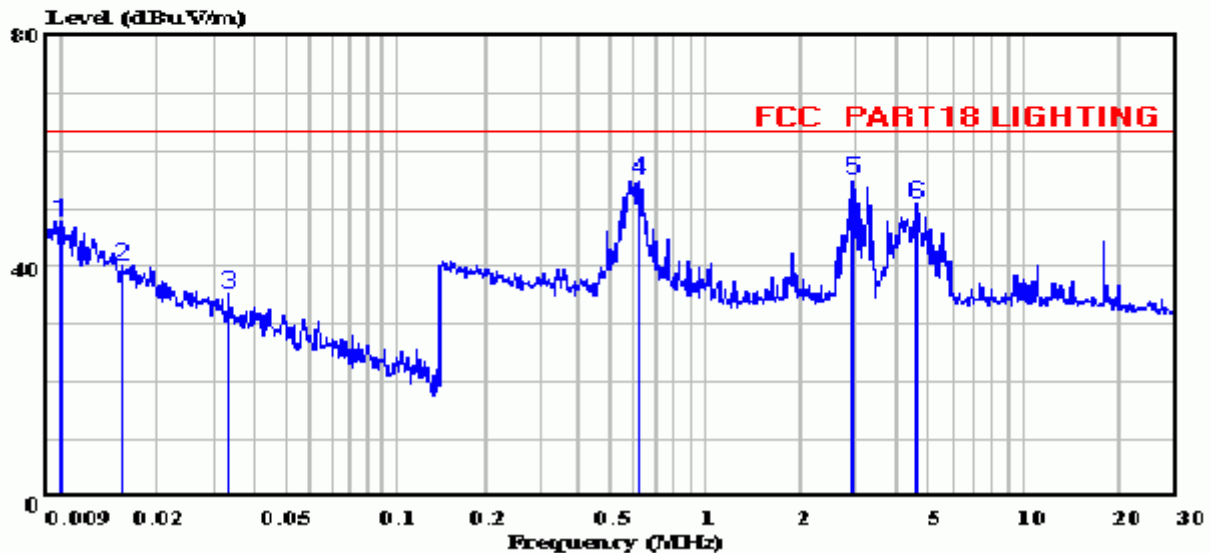
		Read		Limit	Over	Cable	Probe	
	Freq	Level	Level	Line	Limit	Loss	Factor	Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	0.010	27.77	48.58	63.50	-14.92	0.11	20.70	20.81
2	0.024	18.86	39.64	63.50	-23.86	0.18	20.60	20.78
3	0.044	21.81	42.49	63.50	-21.01	0.23	20.45	20.68
4	0.636	34.12	54.57	63.50	-8.93	0.45	20.00	20.45
5	2.925	35.87	56.45	63.50	-7.05	0.58	20.00	20.58
6	4.681	30.49	51.11	63.50	-12.39	0.62	20.00	20.62



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Data#: 111 File#: D:\EMI_TEST\Data\J\joinluck.emi

Date: 2004-05-22 Time: 12:07:42



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m HLA6120
Project No : AOE-000650
Applicant : Fujian Joinluck Electronic Enterprise
: Co.,Ltd
EUT : Energy Saving Lamp
M/N : A-Type T3S 11W
S/N : F04050903
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Mode : Lighting
Test Engineer: *Harry Zhao*

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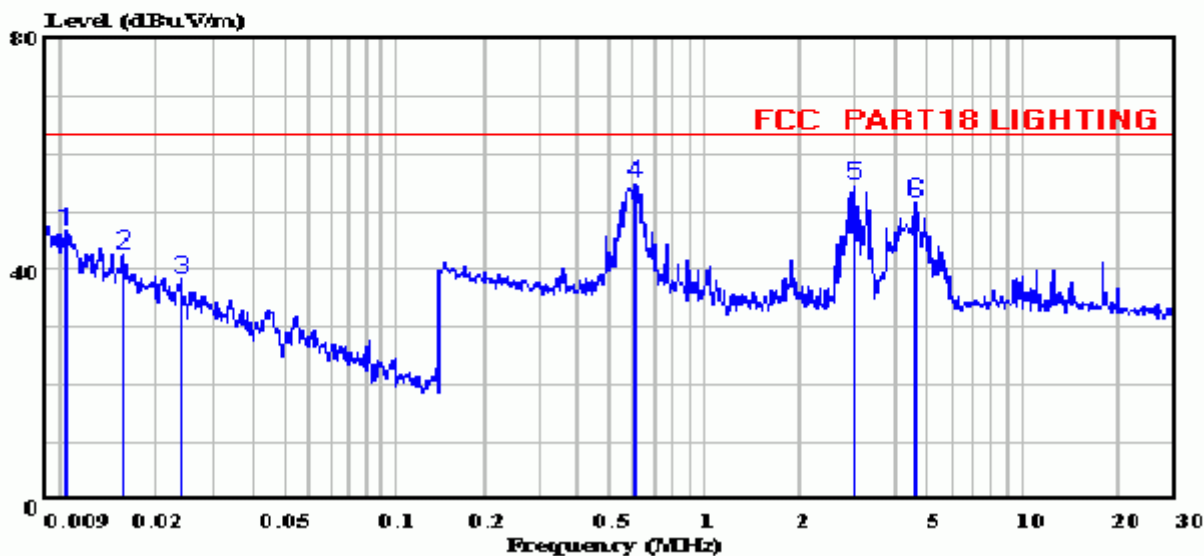
		Read		Limit	Over	Cable	Probe	
	Freq	Level	Level	Line	Limit	Loss	Factor	Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	0.010	26.82	47.63	63.50	-15.87	0.11	20.70	20.81
2	0.015	19.46	40.29	63.50	-23.21	0.14	20.69	20.83
3	0.033	14.37	35.06	63.50	-28.44	0.21	20.48	20.69
4	0.636	34.53	54.98	63.50	-8.52	0.45	20.00	20.45
5	2.925	34.43	55.01	63.50	-8.49	0.58	20.00	20.58
6	4.681	30.23	50.85	63.50	-12.65	0.62	20.00	20.62



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Data#: 113 File#: D:\EMI_TEST\Data\J\joinluck.emi

Date: 2004-05-22 Time: 12:11:10



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m HLA6120
Project No : AOE-000650
Applicant : Fujian Joinluck Electronic Enterprise
: Co.,Ltd
EUT : Energy Saving Lamp
M/N : A-Type T3S 9W
S/N : F04050904
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Mode : Lighting
Test Engineer: *Harry Zhao*

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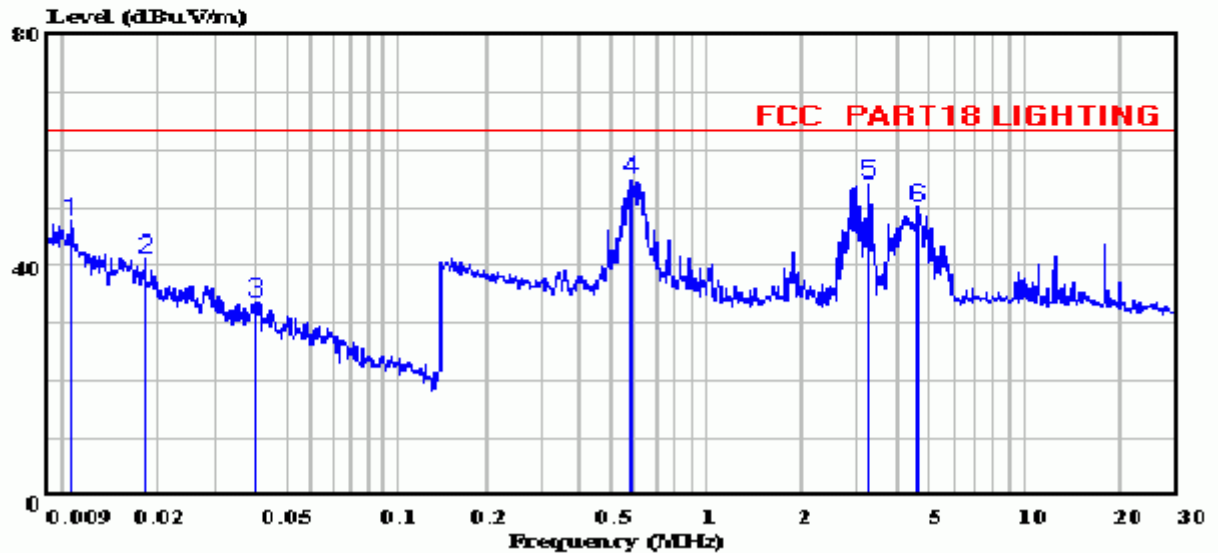
		Read		Limit	Over	Cable	Probe	
	Freq	Level	Level	Line	Limit	Loss	Factor	Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	0.010	25.66	46.47	63.50	-17.03	0.11	20.70	20.81
2	0.016	22.01	42.84	63.50	-20.66	0.15	20.68	20.83
3	0.024	17.54	38.32	63.50	-25.18	0.18	20.60	20.78
4	0.616	34.29	54.74	63.50	-8.76	0.45	20.00	20.45
5	2.997	33.82	54.40	63.50	-9.10	0.58	20.00	20.58
6	4.681	31.06	51.68	63.50	-11.82	0.62	20.00	20.62



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Data#: 115 File#: D:\EMI_TEST\Data\J\joinluck.emi

Date: 2004-05-22 Time: 12:15:53



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m HLA6120
Project No : AOE-000650
Applicant : Fujian Joinluck Electronic Enterprise
Co.,Ltd
EUT : Energy Saving Lamp
M/N : R20 T3S 11W
S/N : F04050905
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Mode : Lighting
Test Engineer: *Harry Zhao*

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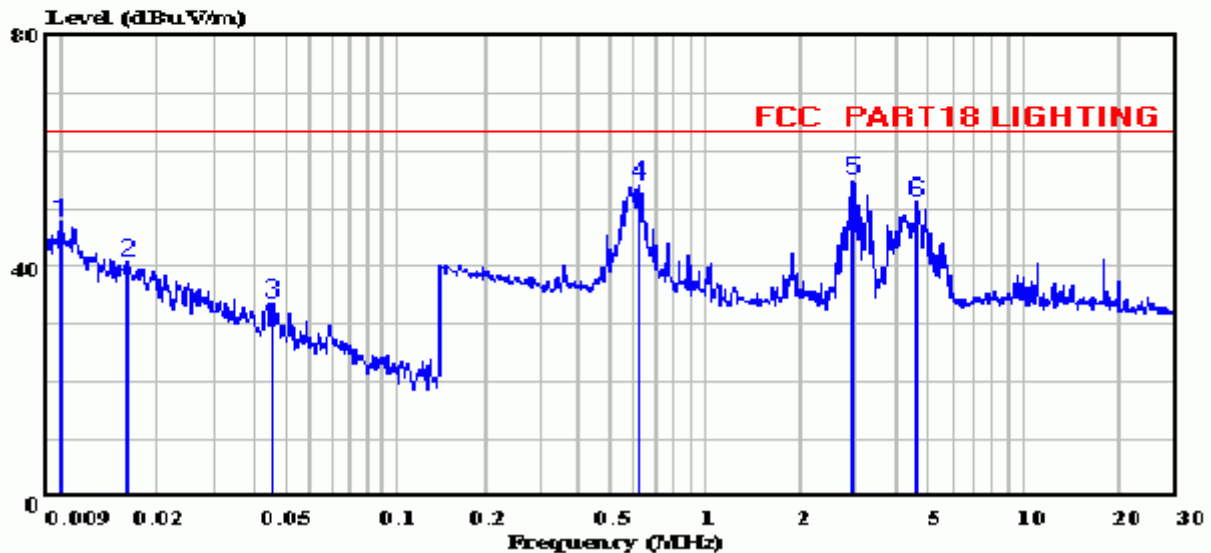
	Freq	Read Level	Level	Limit Line	Over Limit	Cable Loss	Probe Factor	Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	0.011	26.82	47.63	63.50	-15.87	0.11	20.70	20.81
2	0.018	20.34	41.13	63.50	-22.37	0.16	20.63	20.79
3	0.040	13.15	33.77	63.50	-29.73	0.22	20.40	20.62
4	0.596	34.31	54.76	63.50	-8.74	0.45	20.00	20.45
5	3.276	33.76	54.35	63.50	-9.15	0.59	20.00	20.59
6	4.681	29.73	50.35	63.50	-13.15	0.62	20.00	20.62



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Data#: 117 File#: D:\EMI_TEST\Data\J\joinluck.emi

Date: 2004-05-22 Time: 12:19:49



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m HLA6120
Project No : AOE-000650
Applicant : Fujian Joinluck Electronic Enterprise
: Co.,Ltd
EUT : Energy Saving Lamp
M/N : R20 T3S 9W
S/N : F04050906
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Mode : Lighting
Test Engineer: *Harry Zhao*

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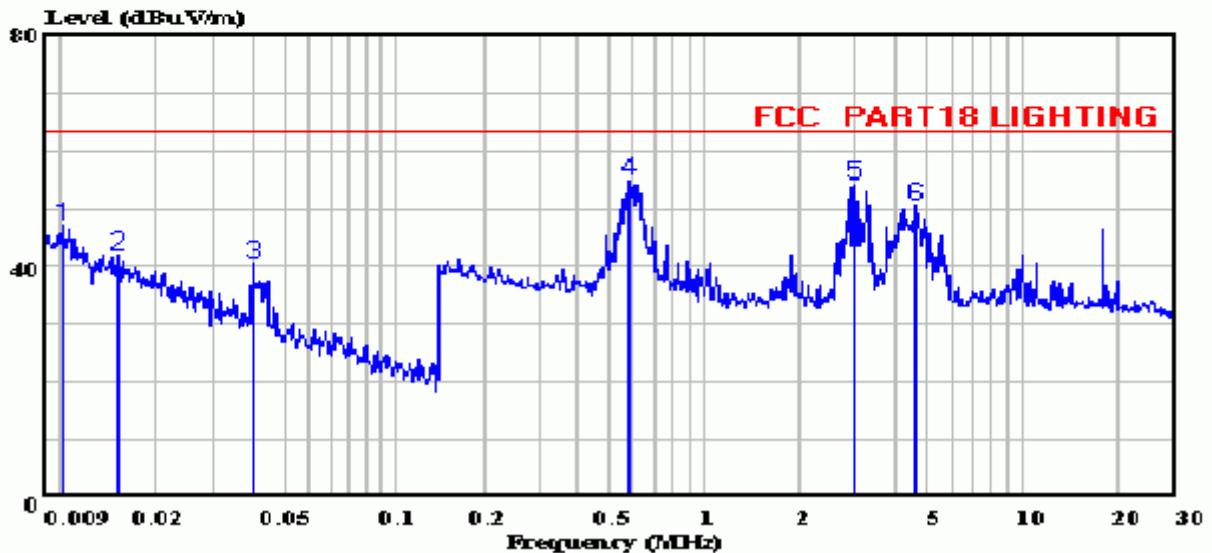
		Read		Limit	Over	Cable	Probe	
	Freq	Level	Level	Line	Limit	Loss	Factor	Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	0.010	26.74	47.55	63.50	-15.95	0.11	20.70	20.81
2	0.016	19.90	40.72	63.50	-22.78	0.15	20.67	20.82
3	0.046	13.14	33.83	63.50	-29.67	0.23	20.46	20.69
4	0.636	33.76	54.21	63.50	-9.29	0.45	20.00	20.45
5	2.925	34.30	54.88	63.50	-8.62	0.58	20.00	20.58
6	4.681	30.75	51.37	63.50	-12.13	0.62	20.00	20.62



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Data#: 119 File#: D:\EMI_TEST\Data\J\joinluck.emi

Date: 2004-05-22 Time: 12:23:21



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m HLA6120
Project No : AOE-000650
Applicant : Fujian Joinluck Electronic Enterprise
: Co.,Ltd
EUT : Energy Saving Lamp
M/N : Tubular T3S 11W
S/N : F04050907
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Mode : Lighting
Test Engineer: *Harry Zhao*

Page: 1

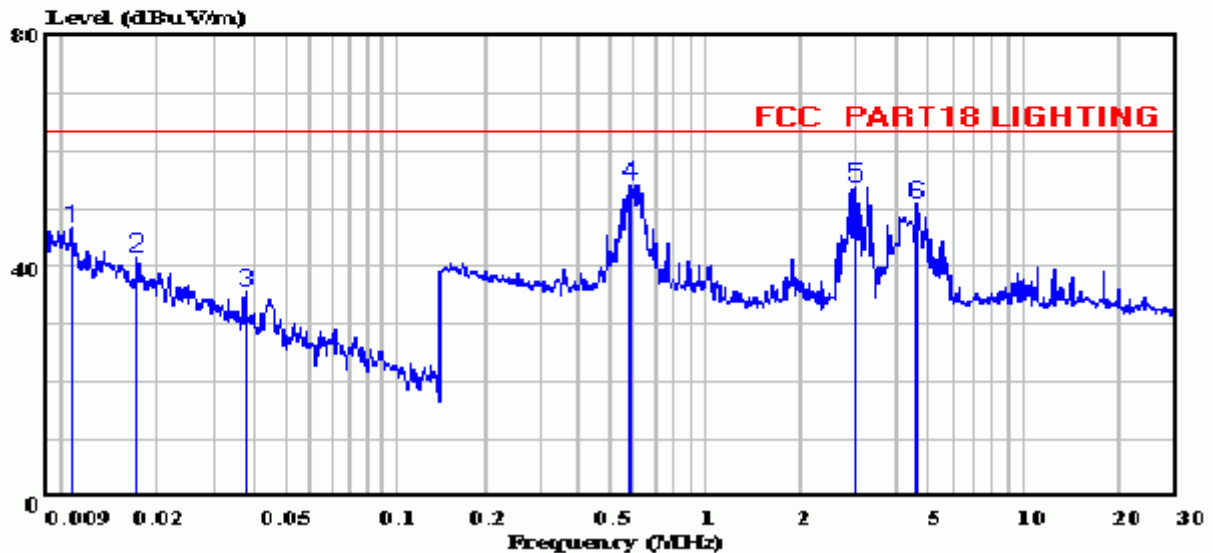
		Read		Limit	Over	Cable	Probe	
	Freq	Level	Level	Line	Limit	Loss	Factor	Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	0.010	26.12	46.93	63.50	-16.57	0.11	20.70	20.81
2	0.015	21.17	42.01	63.50	-21.49	0.14	20.70	20.84
3	0.040	19.94	40.56	63.50	-22.94	0.22	20.40	20.62
4	0.596	34.27	54.72	63.50	-8.78	0.45	20.00	20.45
5	2.997	33.70	54.28	63.50	-9.22	0.58	20.00	20.58
6	4.681	29.91	50.53	63.50	-12.97	0.62	20.00	20.62



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Data#: 121 File#: D:\EMI_TEST\Data\J\joinluck.emi

Date: 2004-05-22 Time: 12:28:24



Site : audix-aci NO.3 CHAMBER
Condition : FCC PART18 LIGHTING 3m HLA6120
Project No : AOE-000650
Applicant : Fujian Joinluck Electronic Enterprise
: Co.,Ltd
EUT : Energy Saving Lamp
M/N : Tubular T3S 9W
S/N : F04050908
Power Supply : 120V/60Hz
Ambient : 23'C 53%
Test Mode : Lighting
Test Engineer: *Harry Zhao*

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		Read		Limit	Over	Cable	Probe	
	Freq	Level	Level	Line	Limit	Loss	Factor	Factor
	MHz	dBuV	dBuV/m	dBuV/m	dB	dB	dB	dB
1	0.011	25.72	46.54	63.50	-16.96	0.12	20.70	20.82
2	0.017	20.89	41.69	63.50	-21.81	0.15	20.65	20.80
3	0.038	14.99	35.64	63.50	-27.86	0.22	20.43	20.65
4	0.596	33.80	54.25	63.50	-9.25	0.45	20.00	20.45
5	2.997	33.28	53.86	63.50	-9.64	0.58	20.00	20.58
6	4.681	30.23	50.85	63.50	-12.65	0.62	20.00	20.62