

Application for FCC Certificate
On Behalf of
Fang's Far East Corp (B.U.I.) Ltd

Table Lamp

Model No.: No921
No922

FCC ID : P85KFEFANG

Prepared For : Fang's Far East Corp (B.U.I.) Ltd
5F-2, No. 1-93, Wu-Chuan Road,
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Prepared By : Audix Technology (Shanghai) Co., Ltd.
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Report No. : ACI-F02010
Date of Test : Feb 5, 2002
Date of Report : Feb 22, 2002

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TEST REPORT FOR FCC CERTIFICATE

Applicant : Fang's Far East Corp (B.U.I.) Ltd
Manufacturer : Kuo Han Electronic Co., Ltd
EUT Description : Table Lamp
(A) Model No.: No921, No922
(B) Serial No.: E01501
(C) Power Supply: 120V/60Hz

Test Procedure Used:

*FCC RULES AND REGULATIONS PART 18 CONSUMER DEVICES (2000)
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 : Feb 5, 2002

Prepared by : Sue Sun 3.17 Test Engineer :
SUE SUN
(Assistant)

Lorenzo Chen
LORENZO CHEN
(Engineer)

Reviewer : Byron Kwo Approved Signatory :
BYRON KWO
(Supervisor)

Alex Chiu
ALEX CHIU
(Assistant Manager)

1 GENERAL INFORMATION

1.1 Description of Equipment Under Test

Description : Table Lamp (with ballast M/N KFE-C22W)

Type of EUT : Production Pre-product Pro-type

Model Number : No921, No922
 The above two models are with the same ballast (M/N: KFE-C22W), only the lampbase are different. So only the test data of No921 has been recorded in this report.

Applicant : Fang's Far East Corp (B.U.I.) Ltd
 5F-2, No.1-93, Wu-Chuan Road,
 Taichung, Taiwan

Manufacturer : Kuohan Electronic Co., Ltd
 No.5 Weijie Road, Qiao Long Chun,
 Shun Qiao Zheng, Pudong, Shanghai

M/N	Apparent Power (VA)	Real Power (W)
No921	38.1	19.7

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

NVLAP Lab Code : 200371-0

1.3 Measurement Uncertainty

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

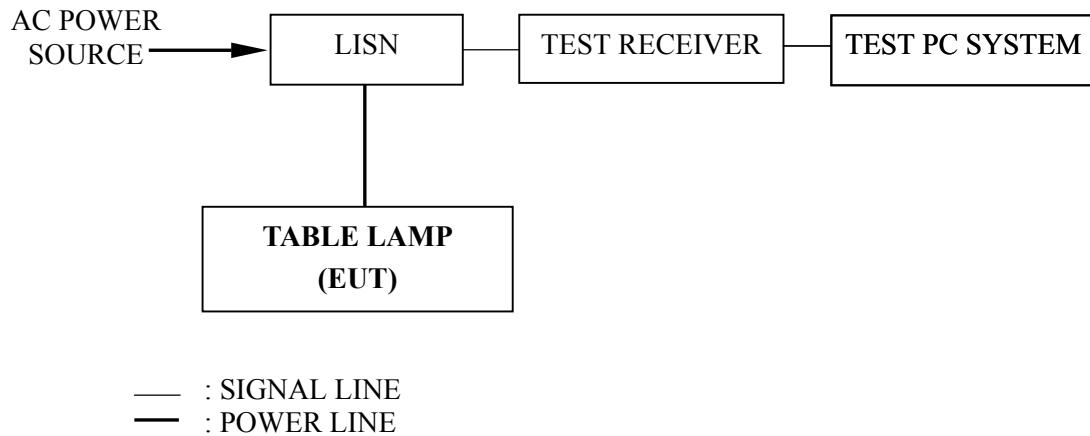
2 AC POWERLINE CONDUCTED EMISSION TEST

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 24, 2001	1 Year
2.	Line Impedance Stabilization Network (LISN)	Kyoritsu	KNW-407	8-1280-5	May 08, 2001	1 Year

2.2 Block Diagram of Test Setup



— : SIGNAL LINE
 - - - : POWER LINE

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 Test Procedures

- 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 Operating Condition of EUT

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 (ON) was done on conducted emission 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.

EUT	:	Table Lamp	Temperature :	23°C
Model No.	:	No921	Humidity :	56%
Test Mode	:	ON	Date of Test :	Feb 05, 2002

Test Line	Frequency (MHz)	Factor (dB)	Meter Reading dB(μV)	Emission Level dB(μV)	Limits dB(μV)	Margin (dB)
VA	0.489	0.06	44.90	44.96	48.00	3.04
	0.530	0.05	40.70	44.75	48.00	7.25
	0.557	0.05	42.50	42.55	48.00	5.45
	0.571	0.05	42.40	42.45	48.00	5.55
	0.636	0.04	42.00	42.04	48.00	5.96
	0.692	0.03	42.60	42.63	48.00	5.37
VB	0.490	0.09	43.10	43.19	48.00	4.81
	0.557	0.09	42.90	42.99	48.00	5.01
	0.570	0.09	42.90	42.99	48.00	5.01
	0.597	0.08	42.00	42.08	48.00	5.92
	0.612	0.08	40.40	40.48	48.00	7.52
	0.778	0.08	41.50	41.58	48.00	6.42

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 0.489 MHz with corrected signal level of 44.96 dB(μV) (limit is 48.00 dB(μV)), when the VA of the EUT is connected to LISN.

TEST ENGINEER: Lorenzo Chen
(LORENZO CHEN)

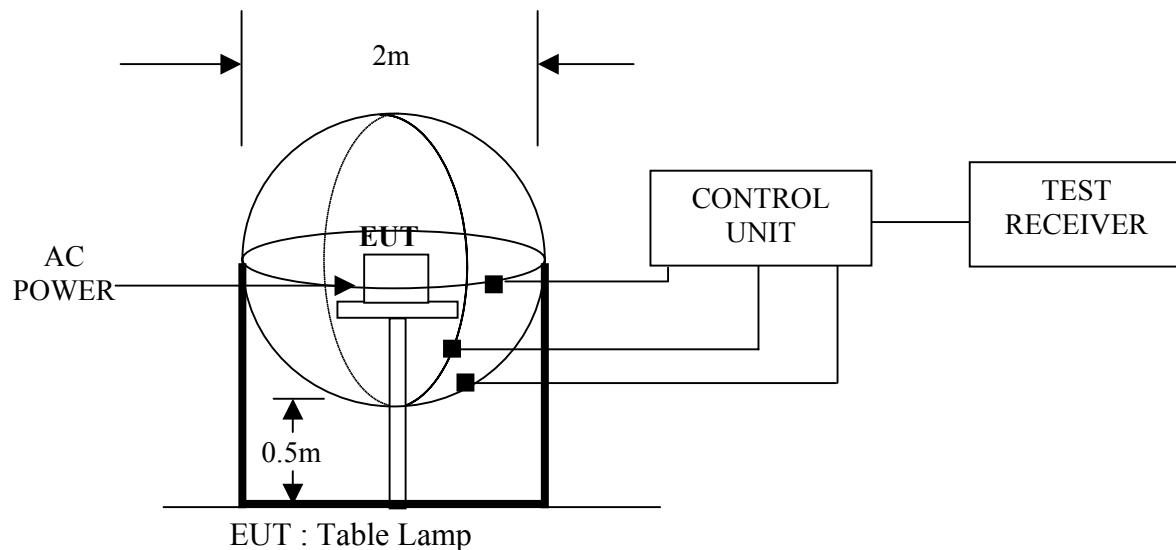
3 FIELD STRENGTH TEST

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	Laplace	RF300	5001	Oct 25, 2001	1/2 Year
2.	Test Receiver	Rohde & Schwarz	ESHS10	844077/020	Apr 24, 2001	1 Year

3.2 Block Diagram of Test Setup



3.3 Test Configuration

The configuration of the EUT is same as those used in conducted emission test.

Refer to Sec.2.4.

3.4 Operating Condition of EUT

Same as conducted emission test which is listed in Sec.2.5, except the test setup replaced by Sec.3.2.

3.5 Test Procedure

The EUT was placed on a wooden table, which is in the center of the loop antenna. The loop antenna is 0.5 meters above the ground. Each side had one sensor. The three sensors were through the control unit to connect the Test receiver, which receiving the emission and find out the maximum emission of each side of the loop antenna.

The IF bandwidth of R&S Test Receiver ESHS10 was set at 200 Hz from 9kHz to 150kHz and 10kHz from 150 kHz to 30 MHz.

The frequency range from 9 kHz to 30 MHz was checked.

The test mode (ON) was done on field strength test and all the test results are listed in Sec.3.6.

3.6 Test Result

< **PASS** >

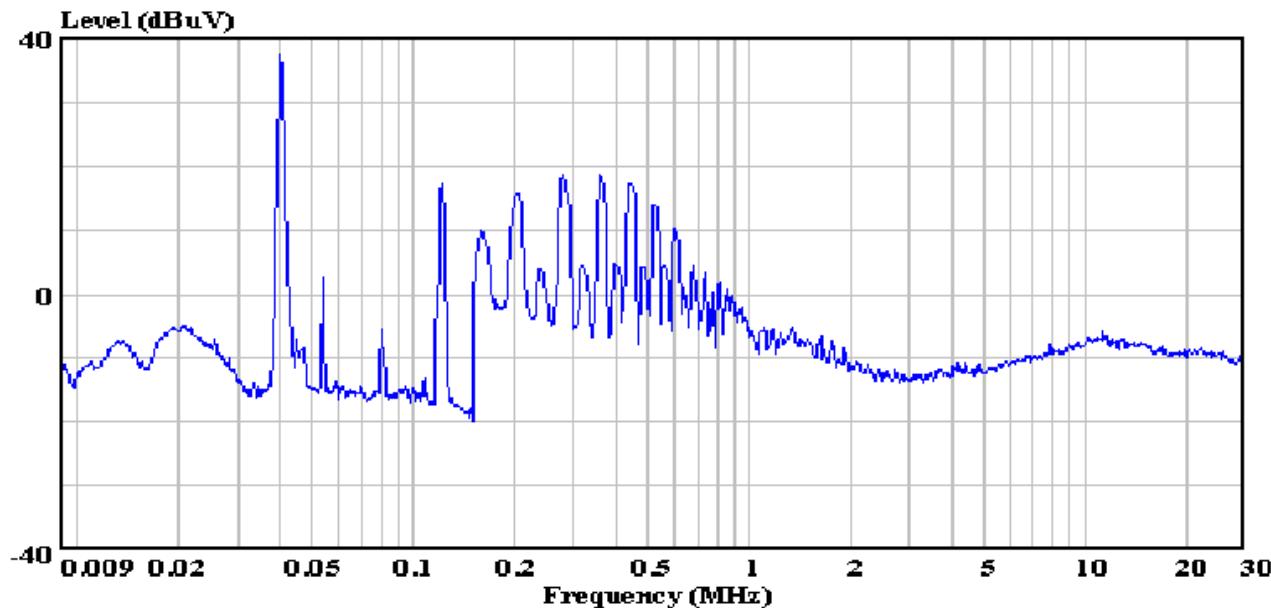
Refer to the following pages.



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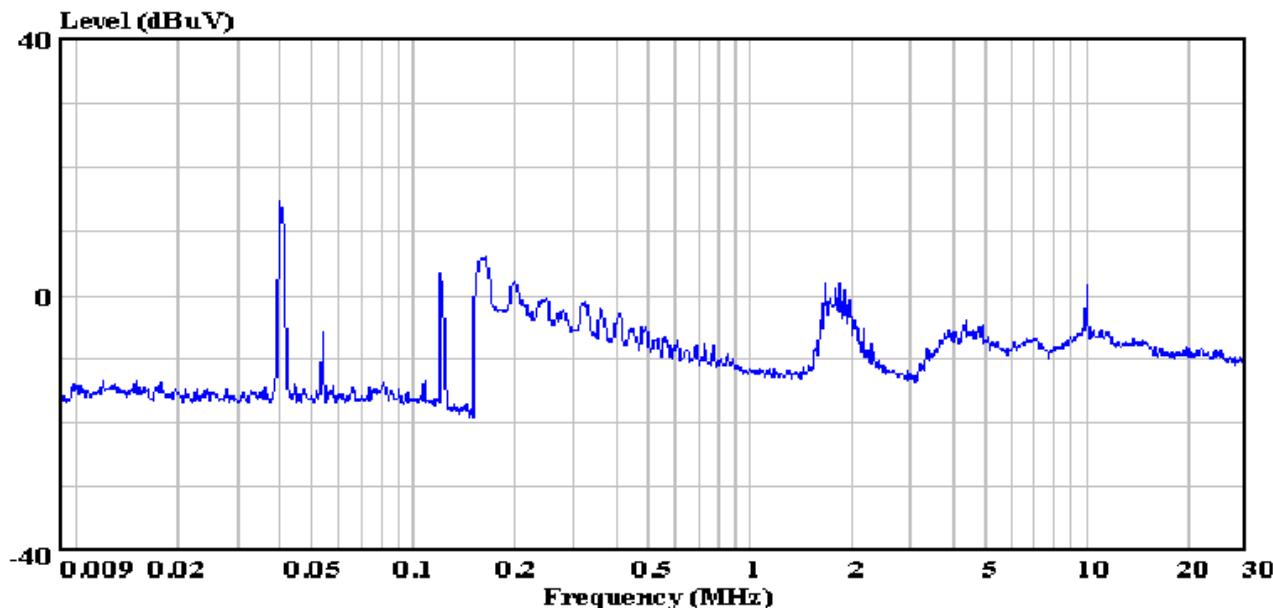
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Condition :
Project No. : AOE-000170
Applicant : Fang's Far East Corp (B.U.I) Co., Ltd.
EUT : TABLE LAMP
M/N : NO921
S/N : E01501
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : A
Test Mode : on
Test Engineer: Lorenzo



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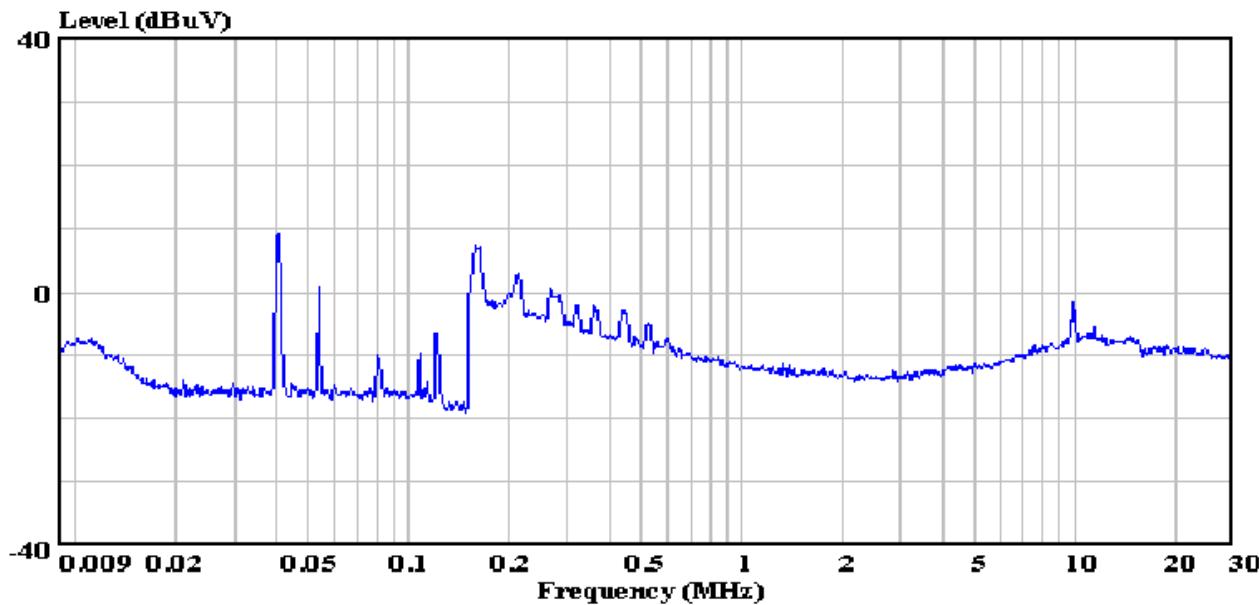


Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000170
Applicant : Fang's Far East Corp (B.U.I) Co., Ltd.
EUT : TABLE LAMP
M/N : NO921
S/N : E01501
Power Supply : 120V/60Hz
Ambient : 23'C 56%RH
Test line : B
Test Mode : on
Test Engineer: Lorenzo



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Site : audix-aci Conducted Emission
Condition :
Project No. : AOE-000170
Applicant : Fang's Far East Corp (B.U.I) Co., Ltd.
EUT : TABLE LAMP
M/N : NO921 [REDACTED]
S/N : E01501
Power Supply : 120V/60Hz
Ambient : 23°C 56%RH
Test line : C
Test Mode : on
Test Engineer: Lorenzo