

Jiadianbao Electrical Products (Shenzhen) Co., Ltd.

Stapler Lamp Rated 35W

Model Number: G6157

Prepared for : Jiadianbao Electrical Products (Shenzhen) Co., Ltd.  
Region No.117, Feng Huang Gang Village, Xin An,  
Baoan Country, Shenzhen City, Guangdong Province,  
China

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

Tel: (0755) 26639496

Report Number : ACS-F05041  
Date of Test : Dec.13, 2004  
Date of Report : Feb.17, 2005

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## TEST REPORT CERTIFICATION

Applicant : Jiadianbao Electrical Products (Shenzhen) Co., Ltd.  
Manufacturer : Jiadianbao Electrical Products (Shenzhen) Co., Ltd.  
EUT Description : Stapler Lamp Rated 35W  
(A) MODEL NO. : G6157  
(B) SERIAL NO. : F2005021701  
(C) POWER SUPPLY : AC 120V/60Hz

## Test Procedure Used:

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

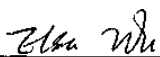
The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 18 Subpart C limits for radiation and conduction emissions. The test results are contained in this 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.

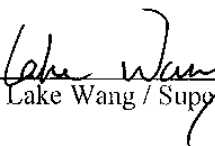
This report must not be used by the applicant to claim product endorsement by NVLAP or any agency of the U.S. Government.

Date of Test : Dec.13, 2004

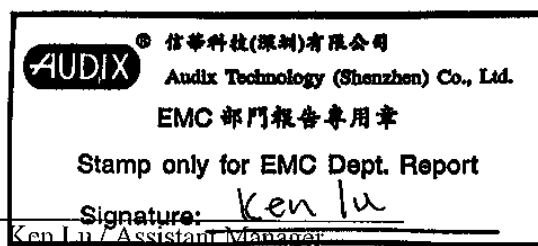
Prepared by :

  
Elsa Wu / Assistant

Reviewer :

  
Lake Wang / Supervisor

Approved & Authorized Signer :



Name of the Representative of the Responsible Party :

Signature :

## 1. GENERAL INFORMATION

### 1.1. Description of Device (EUT)

Description	:	Stapler Lamp Rated 35W
Model Number	:	G6157
Applicant	:	Jiadianbao Electrical Products (Shenzhen) Co., Ltd. Region No.117, Feng Huang Gang Village, Xin An, Baoan Country, Shenzhen City, Guangdong Province, China
Manufacturer	:	Jiadianbao Electrical Products (Shenzhen) Co., Ltd. Region No.117, Feng Huang Gang Village, Xin An, Baoan Country, Shenzhen City, Guangdong Province, China
Power Cord	:	Unshielded, Undetachable, 1.65m
Date of Test	:	Dec.13, 2004

## 1.2. Test Facility

### Site Description

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

## 1.3. Measurement Uncertainty

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

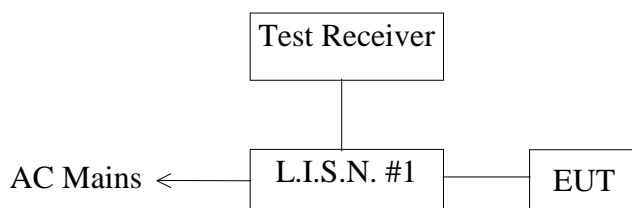
## 2. POWER LINE CONDUCTED EMISSION TEST

### 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	ESHS10	838693/001	May 24, 04	1 Year
2.	L.I.S.N.#1	Rohde & Schwarz	ESH2-Z5	834066/011	May 24, 04	1 Year
3.	L.I.S.N.#2	Kyoritsu	KNW-407	8-541-4	May 24, 04	1 Year
4.	L.I.S.N.#3	EMCO	3825/2	9006-1660	May 24, 04	1 Year
5.	Terminator	Hubersuhner	50Ω	No. 1	May 24, 04	1 Year
6.	Terminator	Hubersuhner	50Ω	No. 2	May 24, 04	1 Year
7.	RF Cable	MIYAZAKI	5D-2W	LISN Cable 1#	Aug. 19, 04	1/2 Year
8.	Passive Probe	Rohde & Schwarz	ESH2-Z3	299.7810.52	May 24, 04	1 Year
9.	Coaxial Switch	Anritsu	MP59B	M55367	Nov. 28, 04	1/2 Year
10.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100340	Aug. 19, 04	1/2 Year
11.	PC	N/A	586ATXS	N/A	N/A	N/A
12.	Printer	HP	Laserjet2100	SGGJ092351	N/A	N/A

### 2.2. Block Diagram of Test Setup



(EUT: Stapler Lamp Rated 35W)

### 2.3. Power Line Conducted Emission Test Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB( $\mu$ V)	Average Level dB( $\mu$ V)
150KHz ~ 500KHz	66 ~ 56*	56 ~ 46*
500KHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. \* Decreasing linearly with logarithm of frequency.  
2. The lower limit shall apply at the transition frequencies.

### 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. Stapler Lamp Rated 35W (EUT)

Model Number : G6157  
Serial Number : F2005021701  
Manufacturer : Jiadianbao Electrical Products (Shenzhen) Co., Ltd.

### 2.5. Operating Condition of EUT

2.5.1. Setup the EUT and simulator as shown on 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.#1). 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 C63.4-2001 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS10) is set at 10KHz.

The frequency range from 150KHz 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 150KHz to 30 MHz is investigated.  
All emissions not reported below are too low against the prescribed limits.

Date of Test :	Dec.13, 2004	Temperature :	22.3°C
EUT :	Stapler Lamp Rated 35W	Humidity :	54%
Model No. :	G6157	Test Mode :	ON
Test Engineer :	Seco		

Frequency (MHz)	Reading (dBμV)				Limit (dBμV)	
	VA		VB		Quasi-Peak	Average
	Quasi-Peak	Average	Quasi-Peak	Average		
0.154	45.92	39.14	N/A	N/A	65.78	55.78
0.197	N/A	N/A	44.90	34.56	63.74	53.74
0.198	43.76	32.81	N/A	N/A	63.69	53.69
0.240	N/A	N/A	46.42	37.91	62.10	52.10
0.242	43.91	35.41	N/A	N/A	62.03	52.03
0.286	43.39	37.22	46.76	40.19	60.64	50.64
0.393	N/A	N/A	46.30	37.47	58.00	48.00
0.396	43.28	35.66	N/A	N/A	57.94	47.94
0.437	N/A	N/A	45.95	39.15	57.12	47.12
29.530	N/A	N/A	46.20	38.57	60.00	50.00
29.840	50.97	41.96	N/A	N/A	60.00	50.00

Remark: 1) If the data table appeared symbol of “N/A” means the value was too low to be measured.  
2) If the data table appeared symbol of “\*” means the Q.P. value is under the limit for average, so, the average value had been omitted.

Reviewer: Cake Wang



### 3. MAGNETIC FIELD EMISSION TEST

#### 3.1. Test Equipment

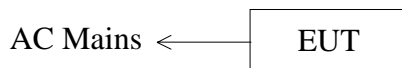
The following test equipments are used during the radiated emission test:

##### 3.1.1. Anechoic Chamber

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Loop Antenna	Chase	HLA6120	1062	June 28, 04	1 Year
2	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	May 24, 04	1 Year

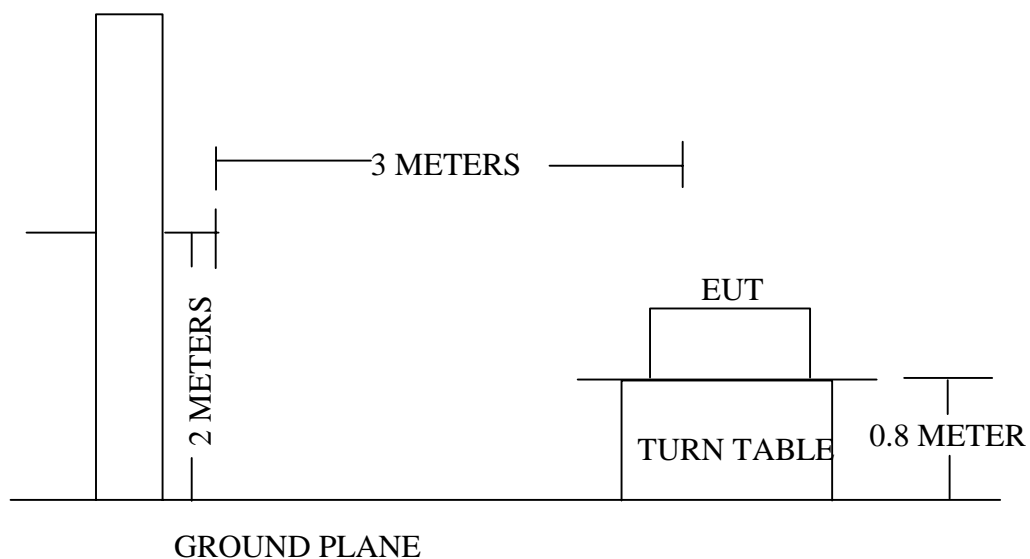
#### 3.2. Block Diagram of Test Setup

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



(EUT: Stapler Lamp Rated 35W)

##### 3.2.2. In Anechoic Chamber Test Setup Diagram



### 3.3. Magnetic Field Emission Limit

All emanations from Non-ISM devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

Frequency band MHz	Quasi-peak Electric Field Test Distance 3m dB( $\mu$ V/m)
0.009 - 30	63.5

Note: (1) The limit shall decreasing linearly with logarithm of frequency.  
(2) Distance refers to the distance in meters between the test instrument antenna and the closed point of any part of the E.U.T.

### 3.4. EUT Configuration on Test

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

The configuration of 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 and the simulators 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 Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. Measurements are performed at 3m distance with a 0.6m loop antenna as described in MP-5. The antenna shall be vertically installed, with the lower edge of the loop at 2m height above the floor.

The bandwidth setting on the test receiver (R&S TEST RECEIVER ESHS20) is 200Hz. The EUT is tested in Chamber. All the scanning waveform are attached within Appendix II.

#### **4. DEVIATION TO TEST SPECIFICATIONS**

[ NONE]

# **APPENDIX I**



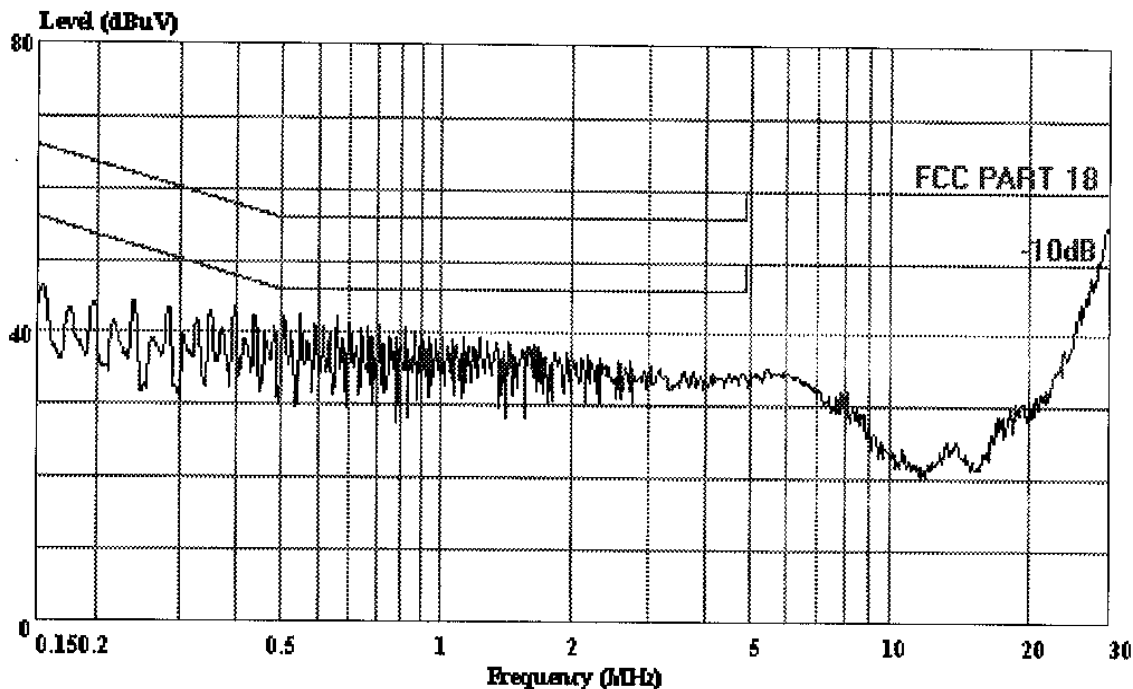
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science &amp; Ind Park

Tel:0755-26639496

Fax:26632877

Data#: 3 File#: JIADIANBAO.EMI Date: 2004-12-13 Time: 17:01:36



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

Trace:

Ref Trace:

Condition: FCC PART 18 VA KNW-407  
 EUT : Stapler Lamp Rated 35W  
 M/N : G6157  
 OP Condition : ON  
 Test Spec : 120V/60Hz  
 Test Engineer: ZICO  
 Comment : Temp:22.3'C Humi:54%



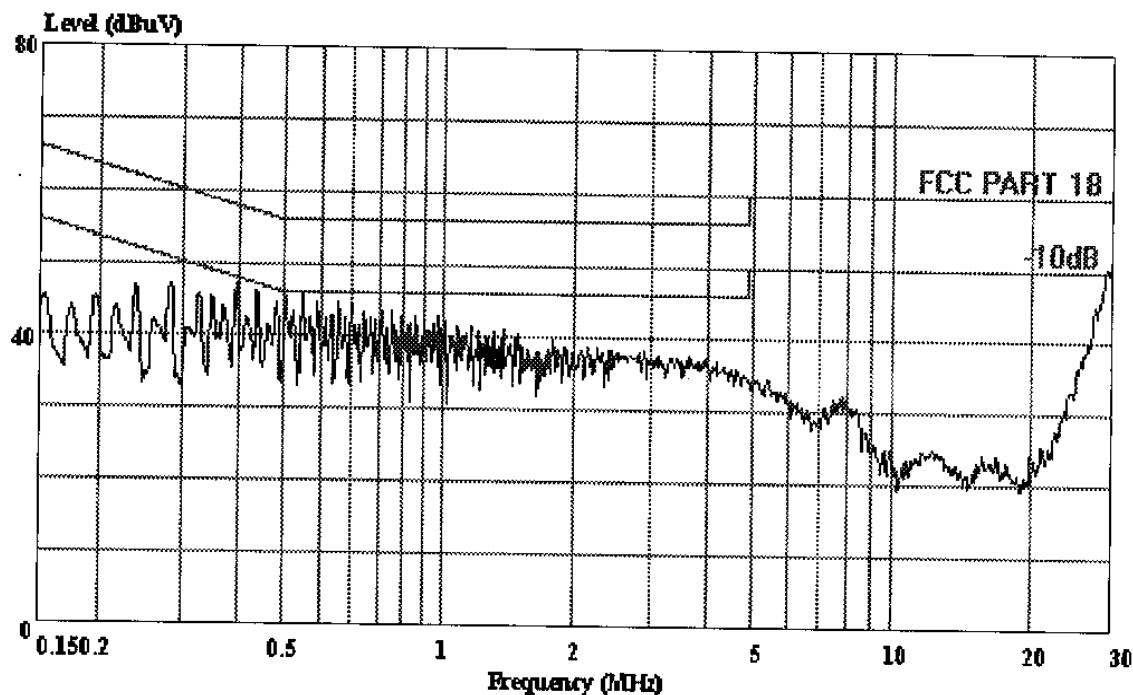
AUDIX TECHNOLOGY (SHENZHEN) CO., LTD.

Shenzhen Science &amp; Ind Park

Tel:0755-26639496

Fax:26632877

Data#: 1 File#: JIADIANBAO.EMI Date: 2004-12-13 Time: 16:59:58



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

Trace:

Ref Trace:

Condition: FCC PART 18 VB KNW-407  
 EUT : Stapler Lamp Rated 35W  
 M/N : G6157  
 OP Condition : ON  
 Test Spec : 120V/60Hz  
 Test Engineer: ZICO  
 Comment : Temp:22.3'C Humi:54%

# **APPENDIX II**

EMISSION TEST  
RADIATION

EUT: Stanler Lamp Rated 35W  
Manuf: JIADIANBAO  
On Cond: ON  
Operator: ZICO  
Test Spec: AC 120V 60Hz

