



FCC PART 18 MEASUREMENT AND TEST REPORT

For

WENTAI ENTERPRISE CO., LTD

6F-3, No 123, Lane235, Pao-chiao Road, Shintien city, Taipei Hsien, Taiwan

FCC ID: VY5D155D12002

| This Report Concerns: | | Equipment Type: | | |
|-----------------------|--|--------------------|--|--|
| Original Report | t | Electronic Ballast | | |
| Test Engineer: | Amanda Wei A | manda wei | | |
| Report Number: | | | | |
| Test Date: | 2008-02-19 | | | |
| Report Date: | 2008-02-21 | | | |
| Reviewed By: | EMC Manager: Green Xu Green . Xu | | | |
| Prepared By: | Bay Area Compliance Laboratories Corp. (Shenzhen). 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 | | | |

Note: This test report is for the customer shown above and their specific product only. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Shenzhen). This report **must not** be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the Federal Government.

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The WENTAI ENTERPRISE CO., LTD's model: WTEB-D155D-120, or the "EUT" as referred to in this report is an Electronic Ballast which measures approximately 9.5 cm L x 9.5 cm W x 3.5 cm H, rated input voltage: AC 120V/60Hz.

* All measurement and test data in this report was gathered from production sample serial number: 0801051 (Assigned by BACL, Shenzhen). The EUT was received on 2008-01-30.

Objective

The following test report is prepared on behalf of *WENTAI ENTERPRISE CO., LTD* in accordance with Part 2, Subpart J, and Part 18, Subparts A, B and C of the Federal Communication Commissions rules and regulations.

The objective of the manufacturer is to determine compliance with FCC Part 18 limits.

Related Submittal(s)/Grant(s)

No related submittal(s).

Test Methodology

All measurements contained in this report were conducted with MP-5, FCC Methods of Measurements of Radio Noise Emissions from ISM Equipment, February 1986. All measurement was performed at Bay Area Compliance Laboratories Corp. (ShenZhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located in the 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, Guangdong 518038, P.R. of China.

Test site at Bay Area Compliance Laboratories Corp. (Shenzhen) has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on November 04, 2004. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 382179 and Industrial Canada registration test site No.: 5500A. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, Bay Area Compliance Laboratories Corp. (Shenzhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0).



NVLAP LAB CODE 200707-0

The current scope of accreditations can be found at http://ts.nist.gov/Standards/scopes/2007070.htm .

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a typical fashion (as normally used by a typical user).

Equipment Modifications

No modifications were made to the unit tested.

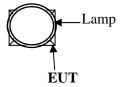
Local Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number | FCC ID |
|--------------|-------------|--------|---------------|--------|
| Yaguang | Lamp | 2D-55W | N/A | N/A |

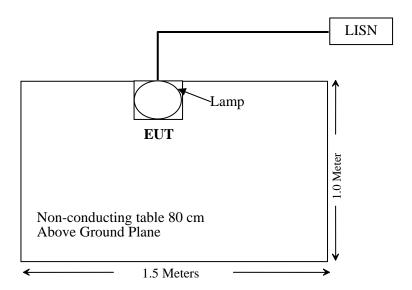
External I/O Cable

| Cable Description | Length (M) | From/Port | То |
|--|------------|-----------|----------|
| Unshielded Undetachable AC Power Cable | 1.0 | EUT | AC Power |

Configuration of Test Setup



Block Diagram of Test Setup

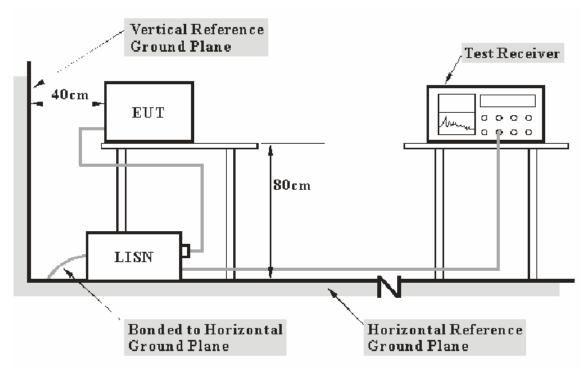


Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at Bay Area Compliance Laboratories Corp. (ShenZhen) is ± 2.4 dB.

EUT Setup



Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with MP-5: 1986 measurement procedure. Specification used was with the FCC Part 18 limits.

The EUT was connected to a 120 VAC/ 60Hz power source.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 450 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Test Equipment List and Details

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|-----------------|-------------------|---------|------------------|---------------------|-------------------------|
| Com-Power | L.I.S.N. | LI-200 | 12005 | N/A | N/A |
| Com-Power | L.I.S.N. | LI-200 | 12208 | N/A | N/A |
| Rohde & Schwarz | EMI Test Receiver | ESCS30 | DE25330 | 2007-03-26 | 2008-03-26 |
| Rohde & Schwarz | L.I.S.N. | ESH2-Z5 | 892107/021 | 2007-03-26 | 2008-03-26 |

^{*} Com-Power's LISN were used as the supporting equipment.

Test Procedure

During the conducted emission test, the EUT power cord was connected to the outlet of the LISN.

Maximizing procedure were performed on the six (6) highest emissions of the EUT.

All data was recorded in the peak detection mode.

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 18, with the worst margin reading of:

1.80 dB at **1.640 MHz** in the **Hot** conductor mode. (*High Power*) **4.10 dB** at **24.920 MHz** in the **Neutral** conductor mode. (*Low Power*)

^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

Test Data

Environmental Conditions

| Temperature: | 25 °C |
|---------------------------|-----------|
| Relative Humidity: | 56 % |
| ATM Pressure: | 100.0 kPa |

The testing was performed by Amanda Wei on 2008-02-19.

Test Mode: ON (High Power)

| Line Conducted Emissions | | | | FCC Part 18.307 | |
|--------------------------|------------------|------------------|----------------------------|-----------------|-------------|
| Frequency (MHz) | Amplitude (dBμV) | Detector (PK) | Conductor (Hot/Neutral) | Limit (dBµV) | Margin (dB) |
| 1.640 | 46.20 | PK | Hot | 48.00 | 1.80* |
| 0.465 | 45.50 | PK | Hot | 48.00 | 2.50* |
| 0.630 | 45.20 | PK | Hot | 48.00 | 2.80* |
| 1.725 | 44.90 | PK | Hot | 48.00 | 3.10* |
| 1.810 | 44.90 | PK | Hot | 48.00 | 3.10* |
| 20.475 | 44.30 | PK | Hot | 48.00 | 3.70* |
| 22.945 | 43.10 | PK | Neutral | 48.00 | 4.90 |
| 0.465 | 38.00 | PK | Neutral | 48.00 | 10.00 |
| 0.630 | 35.90 | PK | Neutral | 48.00 | 12.10 |
| 17.615 | 35.20 | PK | Neutral | 48.00 | 12.80 |
| 12.335 | 33.60 | PK | Neutral | 48.00 | 14.40 |
| 0.800 | 33.10 | PK | Neutral | 48.00 | 14.90 |

Test Mode: ON (Low Power)

| Line Conducted Emissions | | | | FCC Part 18.307 | |
|--------------------------|------------------|------------------|----------------------------|-----------------|----------------|
| Frequency (MHz) | Amplitude (dBμV) | Detector (PK) | Conductor (Hot/Neutral) | Limit (dBµV) | Margin (dB) |
| 24.920 | 43.90 | PK | Neutral | 48.00 | 4.10 |
| 27.120 | 43.50 | PK | Neutral | 48.00 | 4.50 |
| 24.030 | 41.50 | PK | Hot | 48.00 | 6.50 |
| 24.710 | 41.50 | PK | Hot | 48.00 | 6.50 |
| 27.120 | 39.80 | PK | Hot | 48.00 | 8.20 |
| 21.560 | 39.00 | PK | Hot | 48.00 | 9.00 |
| 0.530 | 38.70 | PK | Neutral | 48.00 | 9.30 |
| 0.680 | 36.60 | PK | Neutral | 48.00 | 11.40 |
| 0.830 | 35.30 | PK | Neutral | 48.00 | 12.70 |
| 0.450 | 35.00 | PK | Hot | 48.00 | 13.00 |
| 0.980 | 33.10 | PK | Neutral | 48.00 | 14.90 |
| 0.600 | 32.00 | PK | Hot | 48.00 | 16.00 |

^{*} Within measurement uncertainty.

Plot(s) of Test Data

Plot(s) of Test Data is presented hereinafter as reference.

19. Feb 08 12:30

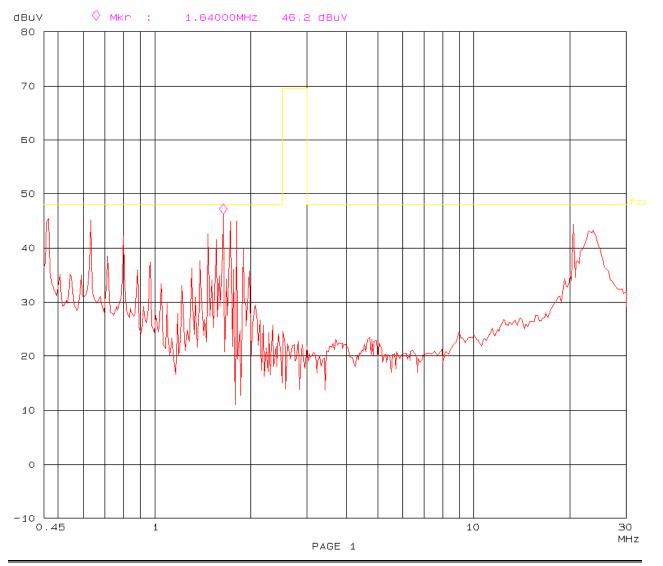
FCC 18

EUT: Electronic Ballast M/N: WTEB-D155D-120

Manuf: WENTAI

On(high power)

Operator: On (high power)
Operator: Amanda
Test Spec: AC120V/60HZ H
Comment: Temp: OF The Temp: 25 Humi: 56% Comment:



19. Feb 08 11:10

FCC 18

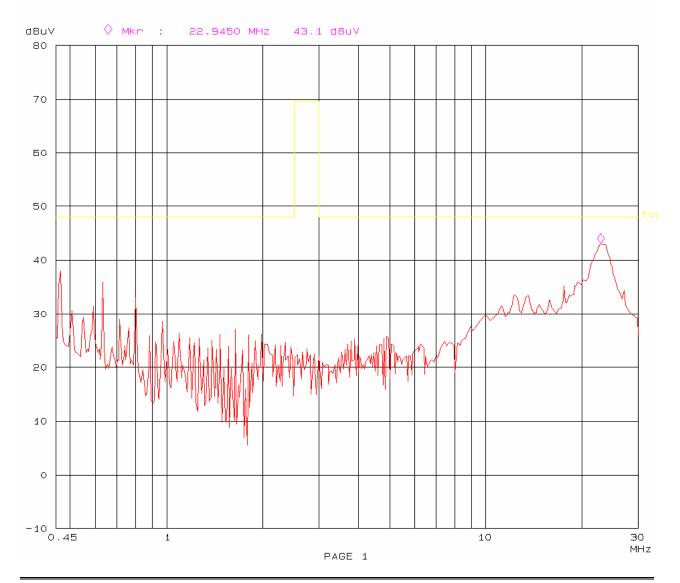
EUT: Electronic Ballast M/N: WTEB-D155D-120

Manuf: WENTAI

Op Cond: On (high power)

Operator: Amanda

Test Spec: AC120V/60HZ N Comment: Temp: 25 Humi: 56%



19. Feb 08 17:15

FCC 18

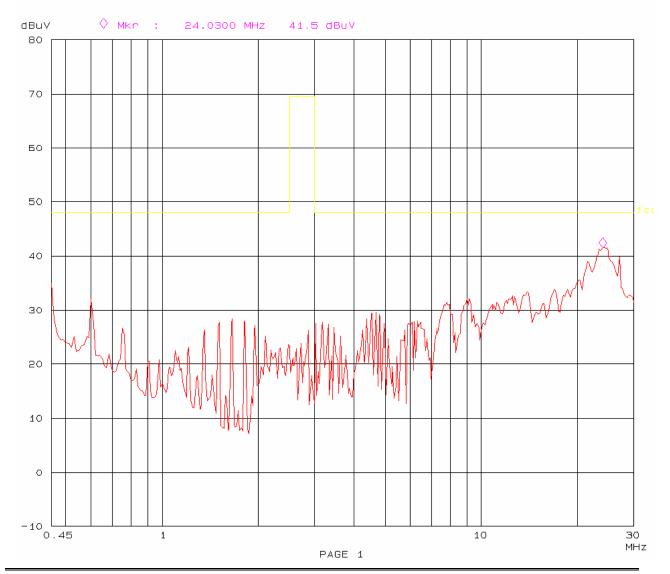
EUT: Blectronic Ballast M/N: WTEB-D155D-120

Manuf: WENTAI

Op Cond: On (low power)

Operator: Amanda

Test Spec: AC120V/60HZ H Comment: Temp: 25 Humi: 56%



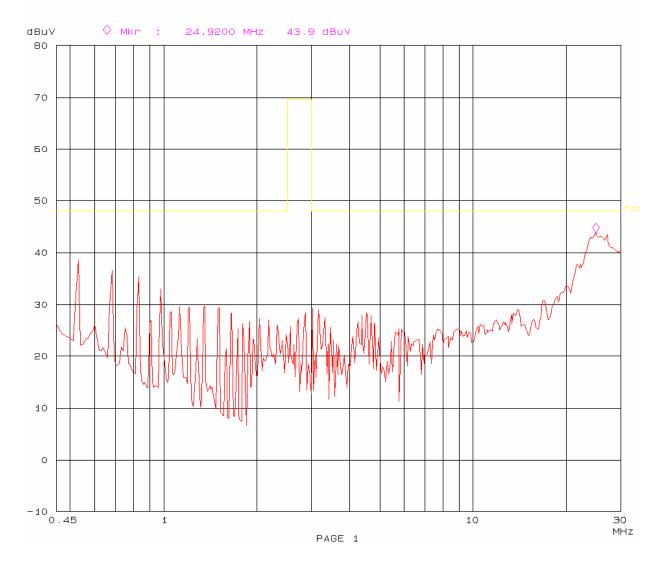
19. Feb 08 16:35

FCC 18

EUT: Blectronic Ballast M/N: WTEB-D155D-120

Manuf: WENTAI
Op Cond: On (low power)

Operator: Amanda
Test Spec: AC120V/60HZ N
Comment: Temp: 25 Humi: 56%



***** END OF REPORT *****