FCC PART 18
EMI MEASUREMENT AND TEST REPORT

For

Super Trend Lighting Limited

Rm 302-306,Hewlett Centre,54 hoi Yuen Road,Kwun Tong,Kln,H.K.

FCC ID: N8WSUPER

January 12, 2006

This Report Concerns:	Equipment Type:
☒ Original Report	CFL

Test Engineer:	Charmi Peng
Report Number:	RSZ06011181
Test Date:	January 12, 2006
Reviewed By:	Chris Zeng
Prepared By:	Bay Area Compliance Lab Corp. (ShenZhen) 6/F, the 3rd Phase of WanLi Industrial Building, ShiHua Road, FuTian Free Trade Zone, ShenZhen, Guangdong 518038, P.R.China Tel: +86-755-33320018 Fax: +86-755-33320008

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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *Super Trend Lighting Limited's FCC ID: N8WSUPER, model:* EU-13W *or* the "EUT" as referred to in this report is a CFL which measures approximately 11.0cmL x 5.0cmW x 5.0cmH. rated input voltage: AC 120V/60 Hz.

* *The test data gathered are from production sample, serial number: 0601205, provided by the manufacturer*

Objective

The following test report is prepared on behalf of *Super Trend Lighting Limited* 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 Laboratory Corporation. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Test site used by Bay Area Compliance Lab Corp. (ShenZhen) to collect radiated and conducted emission measurement 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.China.

Test site at Bay Area Compliance Lab 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. 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 Lab Corp. (ShenZhen) is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200707-0). The current scope of accreditations can be found at http://ts.nist.gov/ts/htdocs/210/214/scopes/2007070.htm

External I/O Cable

Cable Description	Length (M)	From/Port	To
Unshielded Detachable AC Cable	1.2	EUT	AC Mains

SYSTEM TEST CONFIGURATION

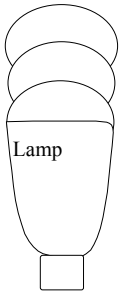
Justification

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

Equipment Modifications

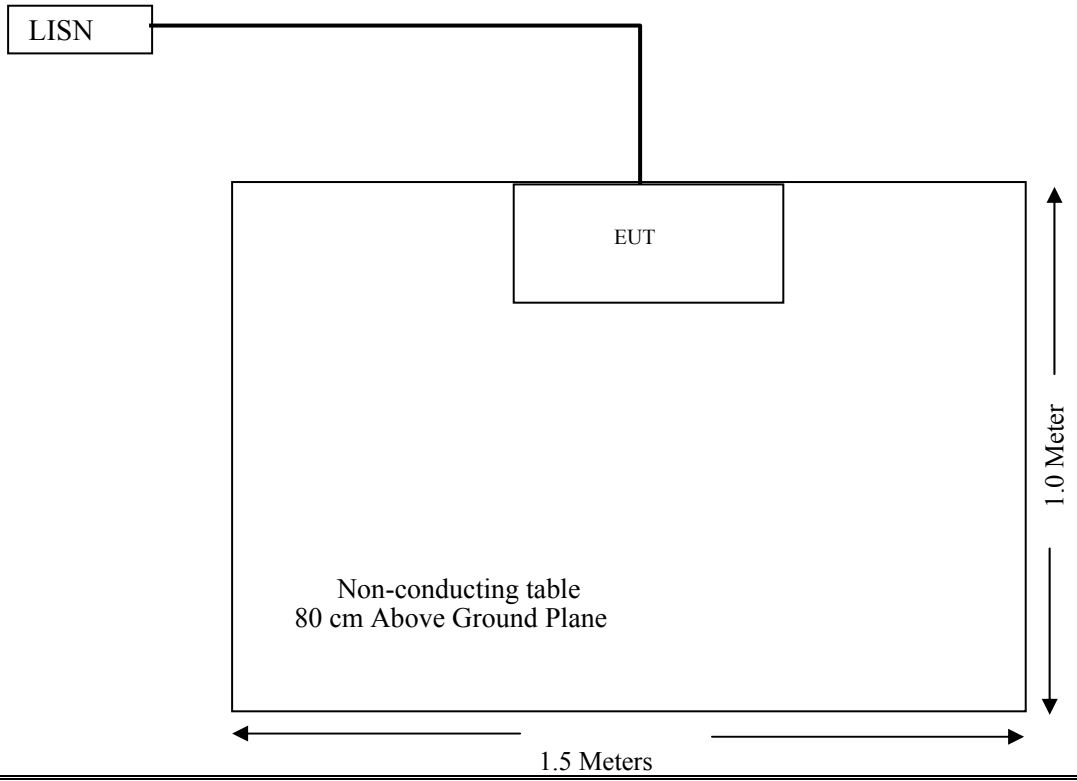
Bay Area Compliance Lab Corp. (ShenZhen) has not done any modification on the EUT.

Configuration of Test Setup



EUT

Block Diagram of Test Setup



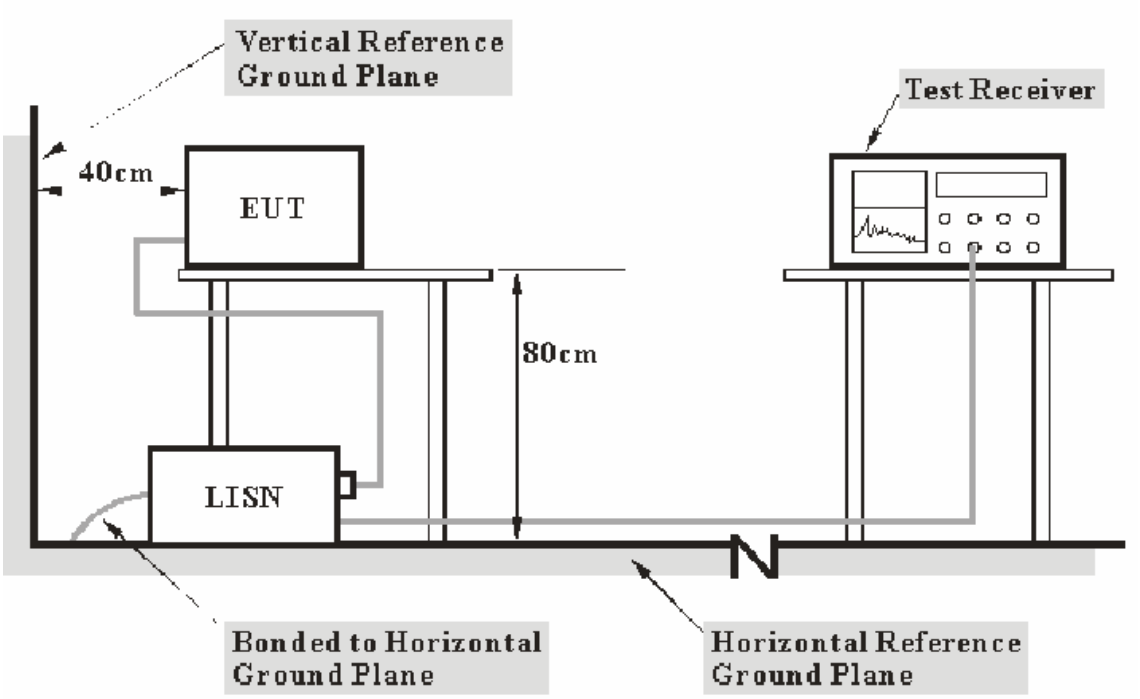
CONDUCTED EMISSION

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 Lab Corp. (ShenZhen) is ±2.4dB.

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 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:

Frequency Range	***IFBW***
450 kHz – 30 MHz	9 kHz

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	12008	N/A	N/A
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2005-8-17	2006-8-17
Rohde & Schwarz	L.I.S.N.	ESH2-Z5	892107/021	2005-2-28	2006-2-28

***** Com-Power's LISN were used as the supporting equipment.
*** Statement of Traceability:** Bay Area Compliance Lab Corp. (ShenZhen) attests that all calibrations have been performed in accordance to NVLAP requirements, traceable to the NIST.

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 Quasi-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:

-1.99* dB at **0.638 MHz** in the **Neutral** conductor mode.
(***** Within measurement uncertainty)

Test Data

Environmental Conditions

Temperature:	22 ° C
Relative Humidity:	52%
ATM Pressure:	1000mbar

The testing was performed by Charmi Peng on 2006-1-12.

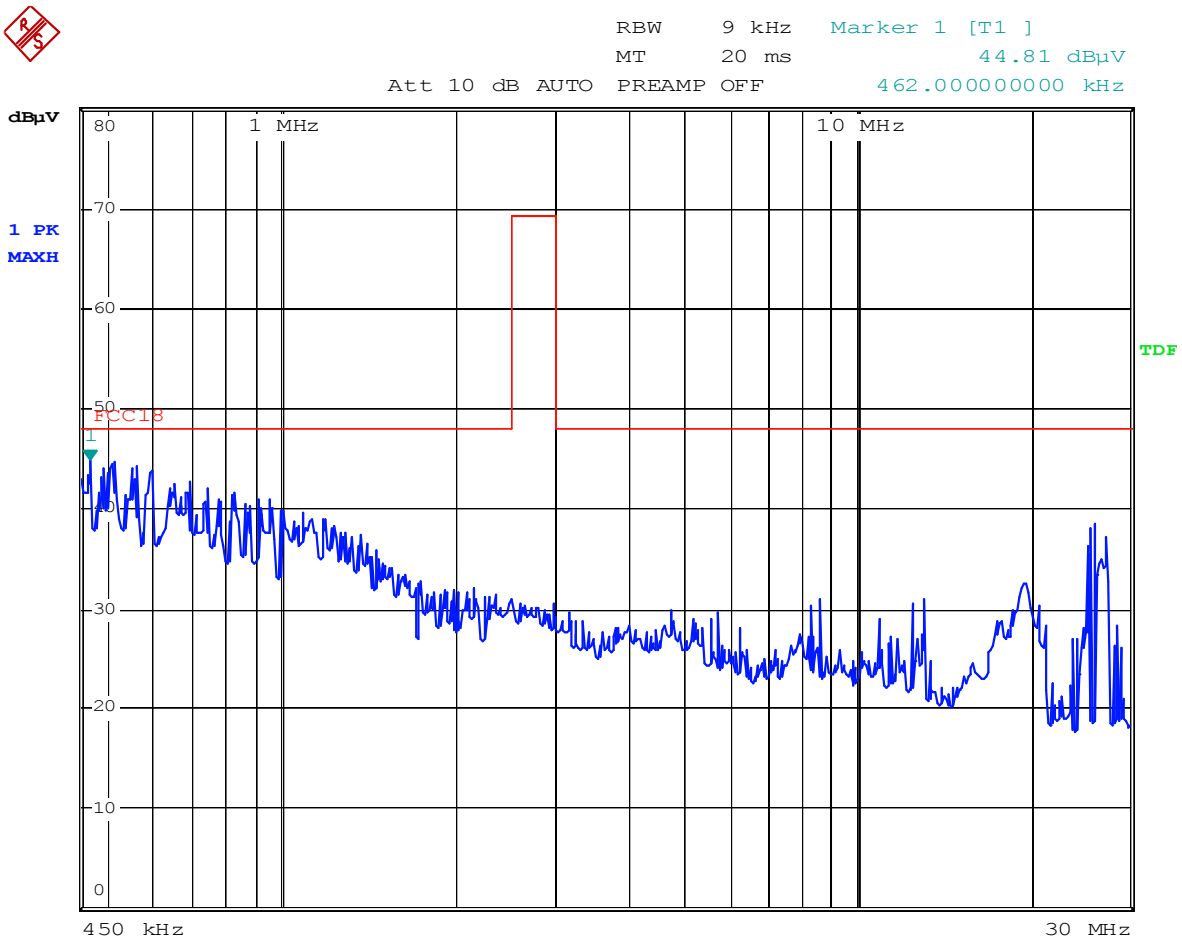
Test mode: On

LINE CONDUCTED EMISSIONS				FCC PART 18	
Frequency MHz	Amplitude dBµV	Detector QP	Phase Line/Neutral	Limit dBµV	Margin dB
0.638	46.01	QP	Neutral	48.00	-1.99 *
0.590	45.58	QP	Neutral	48.00	-2.42
0.462	44.81	QP	Line	48.00	-3.19
0.510	44.69	QP	Line	48.00	-3.31
0.462	44.53	QP	Neutral	48.00	-3.47
0.554	44.28	QP	Line	48.00	-3.72
0.910	43.67	QP	Neutral	48.00	-4.33
26.102	38.62	QP	Line	48.00	-9.38
27.830	35.96	QP	Neutral	48.00	-12.04
19.682	32.52	QP	Line	48.00	-15.48
19.528	32.39	QP	Neutral	48.00	-15.61
13.074	30.91	QP	Line	48.00	-17.09

* Within measurement uncertainty

Plot(s) of Test Data

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



Super Trend CFL M/N:EU-13W Conduction ON L

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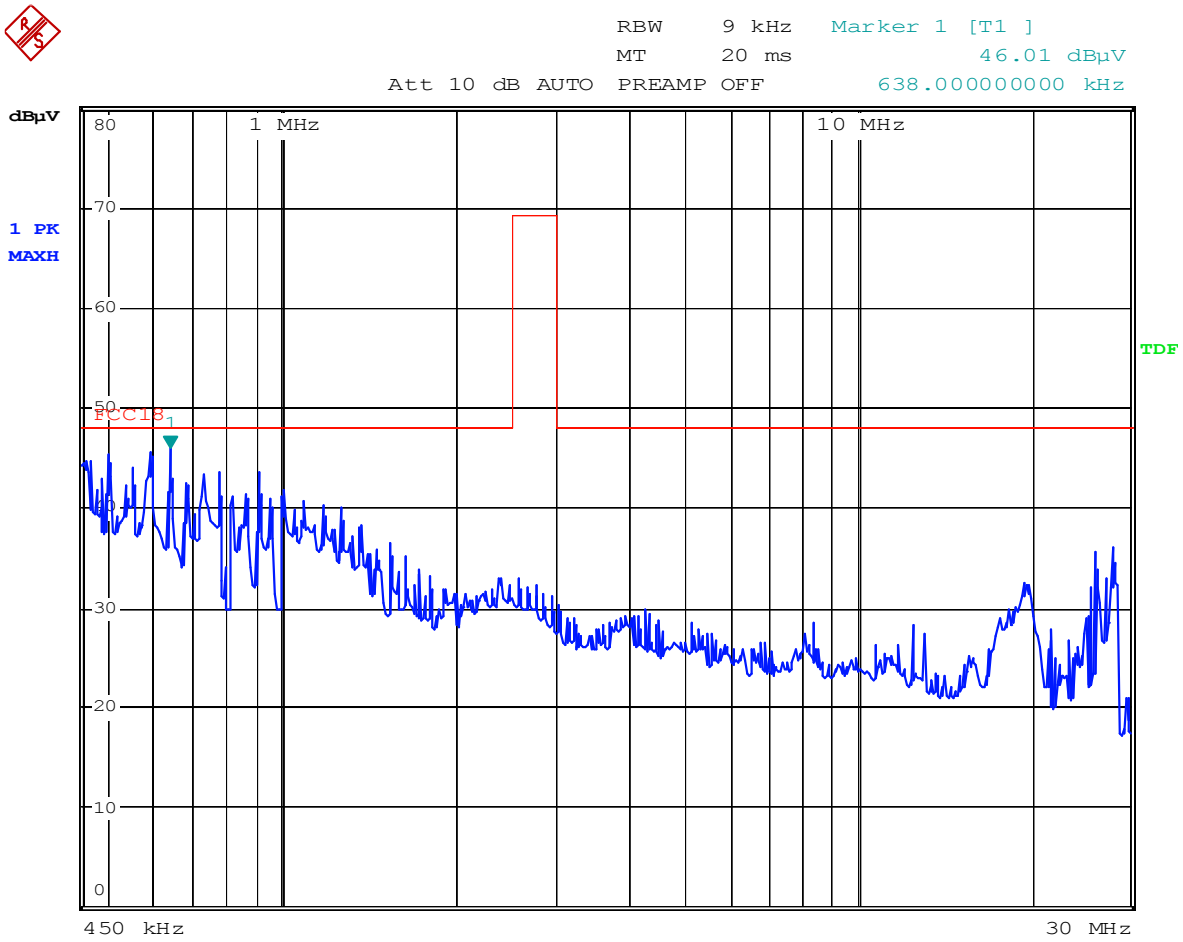

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