

FCCID: V6EGCJX62585 Report Number: HST0803FCC0002E

Test Report

Applicant: Zhongshan Gecheng Electronic Co., Ltd.

Address of Applicant: Hua Guang Shi Chong Jiao, Dong An Road, Guzhen Town, Zhongshan

City, Guangdong, P.R.China

Equipment Under Test (EUT):

EUT Name: Self Ballasted Lamps

Model No.: SLP-9, ELP-9, SLH-13, ELH-13, SLP-13, ELP-13, ELH-18, SLH-18, SLH-26, ELH-26

Trade Mark: GECHENG

Serial No.: Not supplied by client

Standards: FCC PART18: 2007

Date of Receipt: Mar 15, 2008

Date of Test: Mar 17, 2008

Date of Issue: Mar 20, 2008

Test Result: PASS*

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:

Henly.xie / Manager

This report refers to the General Conditions for Inspection and Testing Services, printed overleaf

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The 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.

All test results in this report can be traceable to National or International Standards.

The test report prepare by:

Guangzhou Huesent Testing Service Co., Ltd.

Self-ordained 68# courtyard, No.91, Dongguanzhuang Road, Guangzhou, China.

Tel: 86-20-28263298 Fax: 86-20-28263237 http://www.hst.org.cn E-mail:hst@hst.org.cn



2. Test Summary

Test	Test Requirement	Test Method	Limits	Result
Radiated Emission (30MHz to 1GHz)	FCC PART 18: 2007	ANSI C63.4:2003	Clause 18.305 C) Table: Consumer Equipment	PASS
Conducted Emission (450KHz to 30MHz)	FCC PART 18: 2007	ANSI C63.4:2003	Clause 18.307 C) Table: Consumer Equipment	PASS



3. Contents

	TIT	LE PAGE	
1	CC	OVER PAGE	1
2.	TEST	SUMMARY	2
3.	CONT	TENTS	3
		ERAL INFORMATION	
4.	GENE	ERAL INFORMATION	4
	4.1	CLIENT INFORMATION	4
	4.2	GENERAL DESCRIPTION OF E.U.T.	4
	4.3	DETAILS OF E.U.T.	4
	4.4	DESCRIPTION OF SUPPORT UNITS	4
	4.5	STANDARDS APPLICABLE FOR TESTING	4
	4.6	TEST LOCATION	4
	4.8	DEVIATION FROM STANDARDS	4
	4.9	ABNORMALITIES FROM STANDARD CONDITIONS	4
5.	EQUI	PMENTS USED DURING TEST	5
6.	TEST	RESULTS	6
	6.1 C	ONDUCTED EMISSIONS MAINS TERMINALS, 450 KHZ TO 30MHZ	6
	6.1	1.1 E.U.T. Operation	6
	6.1	1.2 Plan View of Test Setup	6
	6.1	.3 Measurement Data	6
	6.2 R	ADIATED EMISSIONS, 30MHz TO 1GHz	11
	6.2	P.1 E.U.T. Operation	11
	6.2	2.2 Test Setup	11
	6.2	2.3 Measurement Data	11
7.	РНОТ	OGRAPHS	16
	7.1 C	ONDUCTED EMISSION TEST SETUP	16
	7.2 R	ADIATED EMISSION TEST SETUP	17
	7 3 FI	IT CONSTRUCTIONAL DETAILS	18

FCCID: V6EGCJX62585 Report Number: HST0803FCC0002E

4. General Information

4.1 Client Information

Applicant: Zhongshan Gecheng Electronic Co., Ltd.

Address of Hua Guang Shi Chong Jiao, Dong An Road, Guzhen Town,

Applicant: Zhongshan City, Guangdong, P.R.China

4.2 General Description of E.U.T.

EUT Name: Self Ballasted Lamps

Item No.: SLP-9, ELP-9, SLH-13, ELH-13, SLP-13, ELP-13, ELH-18, SLH-18,

SLH-26, ELH-26

Serial No.: Not supplied by client

4.3 Details of E.U.T.

Power Supply: Supply on power of AC120VAC/60Hz.

Power Cord: /

4.4 Description of Support Units

Connect the EUT to mains power, and then test the EUT on normal working status.

Models: SLP-9, ELP-9, SLH-13, ELH-13, SLP-13, ELP-13, ELH-18, SLH-18, SLH-26, ELH-26

Only items SLP-9 and SLH-26 were actually tested as all models were electric/ structure/ component and function identical with difference being model number/ rated output power and appearance.

4.5 Standards Applicable for Testing

The standard used was FCC PART 18, 2007

The EUT belongs to consumer equipment of RF lighting devices.

4.6 Test Location

All tests were subcontract to the laboratory following

CGEL lab.

45 Cunnan Street, Shayongnan, Sanyuanli District, Guangzhou, 510400, P.R.China

FCC- Registratrion No: 597719

4.8 Deviation from Standards

None.

4.9 Abnormalities from Standard Conditions

None.

FCCID: V6EGCJX62585 Report Number: HST0803FCC0002E

5. Equipments Used during Test

No.	Test Item	Name of Equipment	Model/Type	Equipment No.	Calibrated Valid Duration
1	CE/RE	EMI TEST RECEIVER	R & S ESIB7	70-137	2007.3.30-2008.3.30
2	CE	LISN	R & S ESH3-Z5	37-021	2007.3.30-2008.3.30
3	CE	SHIELDING ROOM	ETS-LINDREN Celltype	70-136	2007.3.30-2008.3.30
4	RE	CHAMBER	ETS-LINDREN CACT-3	74-008	2007.3.30-2008.3.30
5	RE	ULTRALOG ANTENNAS	R & S HL-562	74-007	2007.3.30-2008.3.30



6. Test Results

6.1 Conducted Emissions Mains Terminals, 450 kHz to 30MHz

Test Requirement: FCC Part 18
Test Method: ANSI C63.4

Limits: Clause 18.307 C) Table: Consumer Equipment

Detector: Peak for pre-scan (9kHz Resolution Bandwidth)

Quasi-Peak if maximised peak within 6dB of Quasi-Peak limit

Test Date: Mar 17, 2008

6.1.1 E.U.T. Operation

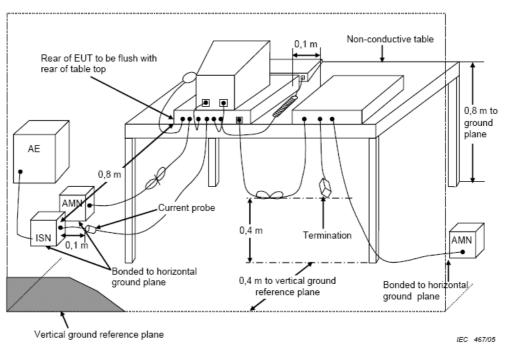
Operating Environment:

Temperature: 23.0°C Humidity:62% RH Atmospheric Pressure: 1020 mBar

EUT Operation:

EUT supplied on power of AC120VAC/60Hz, and test in normal work mode after connected the main power for 15 minutes.

6.1.2 Plan View of Test Setup



6.1.3 Measurement Data

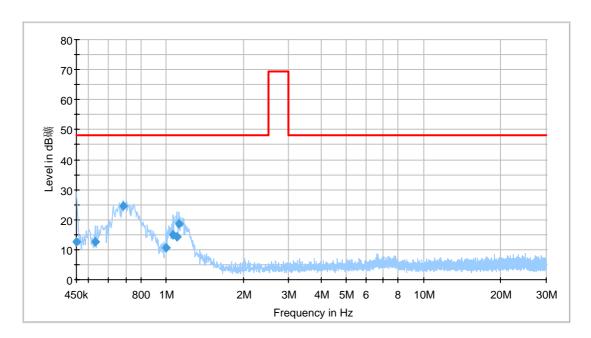
An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized emission were detected when Peak measurement level is over Average Limit.



EUT: SLP-9
Live Line- normal working mode

Peak Scan



Quasi-peak measurement

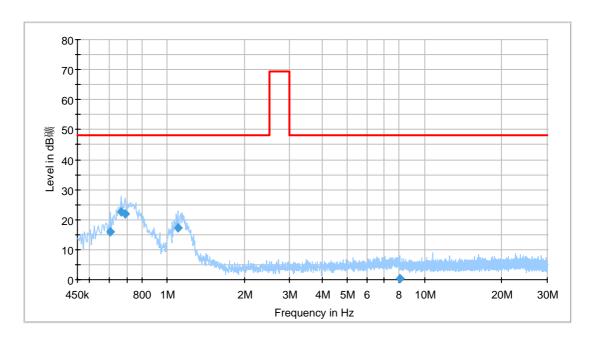
Frequency	Level	Transd	Limit	Margin	Line
MHz	dBuV	dB	dBuV	dB	
0.450	12.7	10.1	48.0	35.3	L1
0.534	12.8	10.1	48.0	35.2	L1
0.686	24.7	10.1	48.0	23.3	L1
1.002	10.8	10.1	48.0	37.2	L1
1.070	15.1	10.1	48.0	32.9	L1
1.106	14.3	10.1	48.0	33.7	L1
1.130	18.6	10.1	48.0	29.4	L1
6.630	-0.8	10.2	48.0	48.8	L1
18.81	-1.0	10.5	48.0	49.0	L1
24.92	-0.3	10.7	48.0	48.3	L1

Note:



EUT: SLP-9
Neutral Line- normal working mode

Peak Scan



Quasi-peak measurement

Frequency	Level	Transd	Limit	Margin	Line
MHz	dBuV	dB	dBuV	dB	
0.606	16.1	10.1	48.0	31.9	Ν
0.666	22.7	10.1	48.0	25.3	Ν
0.690	21.9	10.1	48.0	26.1	Ν
1.110	17.2	10.1	48.0	30.8	Ν
3.498	-1.9	10.1	48.0	49.9	Ν
5.314	-1.3	10.1	48.0	49.3	Ν
8.014	0.2	10.2	48.0	47.8	Ν
10.81	-1.3	10.2	48.0	49.3	Ν
16.21	-1.1	10.4	48.0	49.1	Ν
22.55	-1.0	10.4	48.0	49.0	Ν

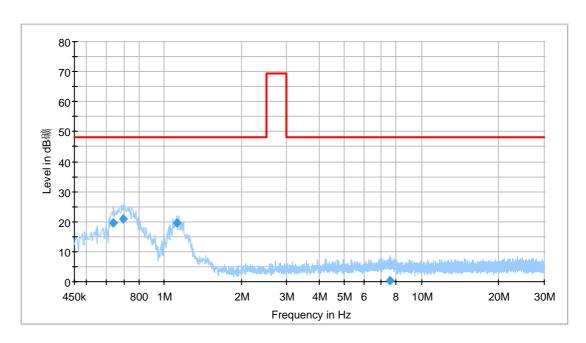
Note:



EUT: SLH-26
Live Line- normal working mode

FCCID: V6EGCJX62585

Peak Scan



Quasi-peak measurement

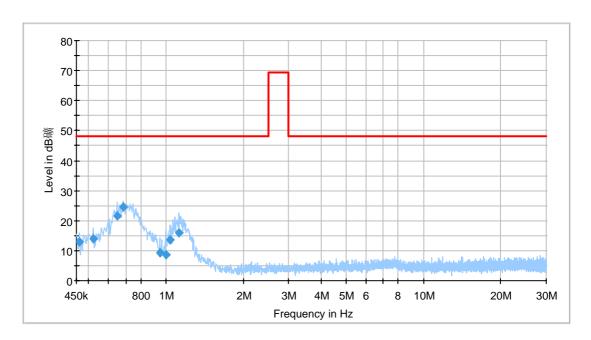
Frequency	Level	Transd	Limit	Margin	Line
MHz	dBuV	dB	dBuV	dB	
0.638	19.6	10.1	48.0	28.4	L1
0.694	21.1	10.1	48.0	26.9	L1
1.126	19.7	10.1	48.0	28.3	L1
2.078	-1.4	10.1	48.0	49.4	L1
3.590	-1.9	10.1	48.0	49.9	L1
4.250	-1.4	10.1	48.0	49.4	L1
7.554	0.2	10.2	48.0	47.8	L1
9.018	-1.8	10.2	48.0	49.8	L1
14.79	-0.5	10.4	48.0	48.5	L1
23.59	-0.5	10.5	48.0	48.5	L1

Note:



EUT: SLH-26
Neutral Line- normal working mode

Peak Scan



Quasi-peak measurement

Frequency	Level	Transd	Limit	Margin	Line
MHz	dBuV	dB	dBuV	dB	
0.462	13.1	10.1	48.0	34.9	N
0.522	14.0	10.1	48.0	34.0	Ν
0.646	21.6	10.1	48.0	26.4	Ν
0.686	24.7	10.1	48.0	23.3	Ν
0.946	9.3	10.1	48.0	38.7	N
0.998	8.7	10.1	48.0	39.3	N
1.038	13.7	10.1	48.0	34.3	N
1.126	16.1	10.1	48.0	31.9	N
14.13	-0.6	10.3	48.0	48.6	N
28.48	-0.8	10.7	48.0	48.8	Ν
Note:					



FCCID: V6EGCJX62585 Report Number: HST0803FCC0002E

6.2 Radiated Emissions, 30MHz to 1GHz

FCC Part18 **Test Requirement:** Test Method: **ANSI C63.4**

Limits: Clause 18.307 C) Table: Consumer Equipment Detector: Peak for pre-scan (120kHz resolution bandwidth)

Quasi-Peak if maximised peak within 6dB of limit

Test Date: Mar 17, 2007

6.2.1 E.U.T. Operation

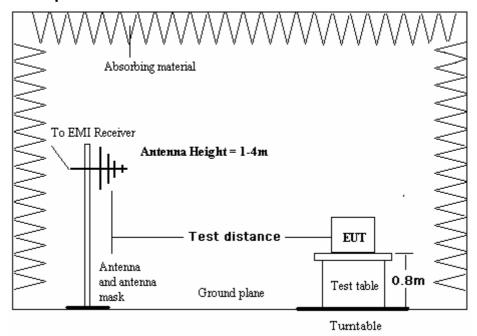
Operating Environment:

Temperature: 23°C Humidity:62% RH Atmospheric Pressure: 1020mBar

EUT Operation:

EUT supplied on power of AC120VAC/60Hz, and test in normal work mode after connected the main power for 15 minutes.

6.2.2 Test Setup



6.2.3 Measurement Data

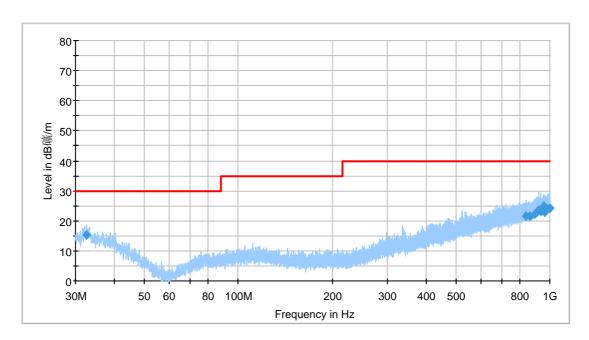
An initial pre-scan was performed in the 3m chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by Bilog antenna with 2 orthogonal polarities



EUT: SLP-9
Horizontal - normal working mode

FCCID: V6EGCJX62585

Peak Scan



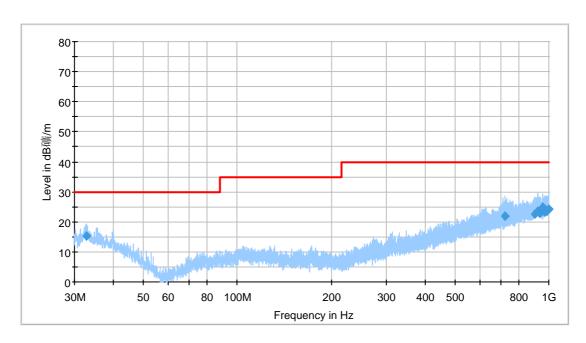
Quasi-peak measurement

Frequency	Level	Transducer Factor	Limit	Margin
MHz	dBuV/m	dB	dBuV/m	dB
32.64	15.3	20.7	30.0	14.7
837.76	21.4	26.0	40.0	18.6
860.48	21.5	26.0	40.0	18.5
893.52	22.2	26.6	40.0	17.8
906.08	22.9	27.2	40.0	17.1
923.56	23.7	28.0	40.0	16.3
937.20	23.2	27.3	40.0	16.8
957.16	24.8	27.2	40.0	15.2
961.52	22.9	27.3	40.0	17.1
999.88	24.2	28.3	40.0	15.8



EUT: SLP-9
Vertical – normal working mode

Peak Scan



Quasi-peak measurement

Frequency	Level	Transducer	Limit	Margin
		Factor		
MHz	dBuV/m	dB	dBuV/m	dB
32.76	15.3	20.5	30.0	14.7
725.48	22.1	24.3	40.0	17.9
903.48	22.6	27.0	40.0	17.4
925.28	23.7	27.9	40.0	16.3
930.36	23.3	27.6	40.0	16.7
936.12	23.1	27.3	40.0	16.9
957.12	25.0	27.2	40.0	15.0
972.24	23.3	27.6	40.0	16.7
985.08	23.7	27.8	40.0	16.3
999.92	24.3	28.3	40.0	15.7

Note:

The transducer factor includes antenna factor and cable loss. EUT was measured on the worst emission status.

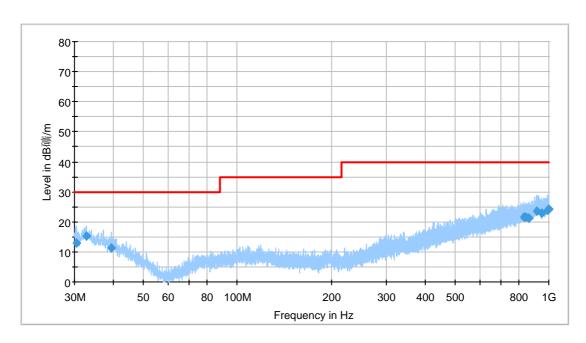
Test distance from the EUT and antenna is 3 meters, Field strength limits at 3 meters are 20dB greater than those at 30 meters.



EUT: SLH-26
Horizontal - normal working mode

FCCID: V6EGCJX62585

Peak Scan



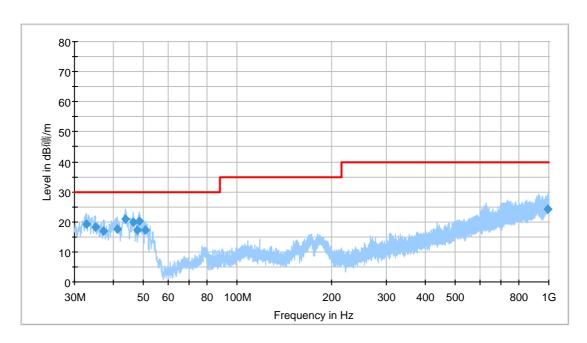
Quasi-peak measurement

Frequency	Level	Transducer Factor	Limit	Margin
MHz	dBuV/m	dB	dBuV/m	dB
30.52	12.9	18.3	30.0	17.1
32.80	15.2	20.4	30.0	14.8
39.28	11.3	16.5	30.0	18.7
829.00	21.5	26.0	40.0	18.5
843.20	21.5	26.0	40.0	18.5
862.80	21.4	26.0	40.0	18.6
917.48	23.6	27.9	40.0	16.4
951.28	22.8	27.1	40.0	17.2
989.48	23.9	27.9	40.0	16.1
997.80	24.2	28.2	40.0	15.8



EUT: SLH-26
Vertical – normal working mode

Peak Scan



Quasi-peak measurement

Frequency	Level	Transducer Factor	Limit	Margin
MHz	dBuV/m	dB	dBuV/m	dB
32.88	19.1	20.3	30.0	10.9
35.00	18.4	17.8	30.0	11.6
37.24	16.9	17.2	30.0	13.1
41.24	17.6	15.0	30.0	12.4
43.72	20.9	13.6	30.0	9.1
46.20	20.0	12.1	30.0	10.0
47.64	17.1	11.1	30.0	12.9
48.52	20.3	10.4	30.0	9.7
50.64	17.2	8.9	30.0	12.8
995.68	24.1	28.2	40.0	15.9
Note:				

The transducer factor includes antenna factor and cable loss. EUT was measured on the worst emission status.

Test distance from the EUT and antenna is 3 meters, Field strength limits at 3 meters are 20dB greater than those at 30 meters.



7. Photographs

7.1 Conducted Emission Test Setup

EUT: SLP-9



EUT: SLH-26





7.2 Radiated Emission Test Setup

EUT: SLP-9



EUT: SLH-26





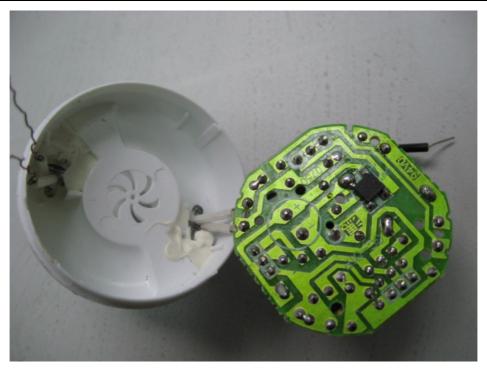
7.3 EUT Constructional Details







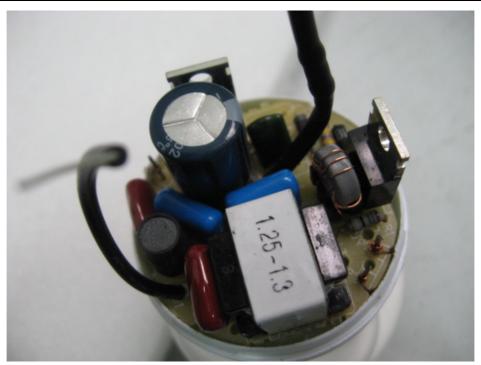


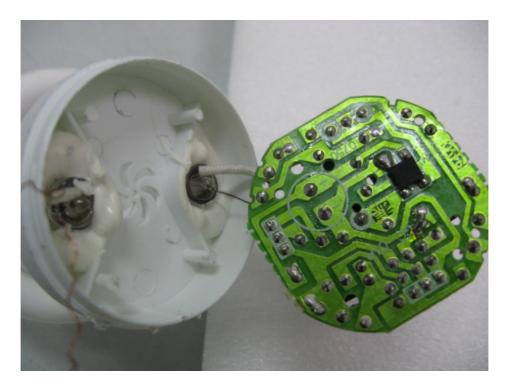


EUT: SLH-26









End of Report