



TEST REPORT

FCC Rules and Regulations Part 18 2009

Industrial, scientific, and medical equipment – Limits and methods of measurement

Report Reference No.: YY10060001

Compiled by

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Date of issue: Jun 21, 2010

Testing Laboratory Name: Shenzhen Huatongwei International Inspection Co., Ltd

Address: Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China

Testing location/ procedure: Full application of Harmonised standards ☒
Partial application of Harmonised standards ☐
Other standard testing methods ☐

Applicant's name: ZHEJIANG NVC LAMPS CO., LTD

Address: No201-16, Tongda Road, South Zone, Hushan District, Jiangshan, zhejiang, china

Test specification:

Standard: FCC Rules and Regulations Part 18 2009

Non-standard test method: /

Test Report Form No: HTWEMCFCC_1A

TRF Originator: Shenzhen Huatongwei International Inspection Co., Ltd

Master TRF: Dated 2006-06

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Test item description: Energy saving lamp

Trade Mark: NVC

Manufacturer: ZHEJIANG NVC LAMPS CO., LTD

Model/Type reference: ESE-13W, ESE-23W

Trade Mark: /

Ratings: 120V 60Hz

Result: Positive

EMC -- TEST REPORT

Test Report No. :	YY10060001	Jun 21, 2010 Date of issue
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Equipment under Test : Energy saving lamp

Model / Type : ESE-13W, ESE-23W

Listed Model : /

Applicant : ZHEJIANG NVC LAMPS CO., LTD

Address : No201-16, Tongda Road, South Zone, Hushan District,
Jiangshan, zhejiang, china

Manufacturer : ZHEJIANG NVC LAMPS CO., LTD

Address : No201-16, Tongda Road, South Zone, Hushan District,
Jiangshan, zhejiang, china

Test Result according to the standards on page 4:	Positive
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The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

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1. TEST STANDARDS

The tests were performed according to following standards:

[FCC Rules and Regulations Part 18 2009](#) Industrial, scientific, and medical equipment – Limits and methods of measurement

2. SUMMARY

2.1. General Remarks

Date of receipt of test sample : Jun 18, 2010

Testing commenced on : Jun 18, 2010

Testing concluded on : Jun 21, 2010

2.2. Equipment Under Test

Power supply system utilised

Power supply voltage : o 230V / 50 Hz o 115V / 60Hz
 o 12 V DC o 24 V DC
 ■ Other (specified in blank below)

AC 120V / 60Hz

2.3. Short description of the Equipment under Test (EUT)

The EUT is an Energy saving lamp.

Serial No.: Prototype

2.4. EUT operation mode

The equipment under test was operated during the measurement under the following conditions:

Test program (customer specific)

Emissions tests.....: According to FCC Rules and Regulations Part 18 2009 and MP-5 1986, searching for the highest disturbance.

2.5. EUT configuration

No peripheral devices and interface cables were connected during the measurement.

3. TEST ENVIRONMENT

3.1. Address of the test laboratory

Shenzhen Huatongwei International Inspection Co., Ltd
Keji Nan No.12 Road, Hi-tech Park, Shenzhen, China
Phone: 86-755-26715686 Fax: 86-755-26748089

3.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC 17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories, Date of Registration: March 30, 2009. Valid time is until March 29, 2012.

A2LA-Lab Cert. No. 2243.01

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. Valid time is until Sept 30, 2011.

FCC-Registration No.: 662850

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 662850, Renewal date Jul 01, 2009.

IC-Registration No.: 5377A

The 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A on February 13, 2011.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd, EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

VCCI

The 3m Semi-anechoic chamber (12.2m×7.95m×6.7m) and Shielded Room (8m×4m×3m) of Shenzhen Huatongwei International Inspection Co., Ltd has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2484. Date of Registration: December 20, 2009. Valid time is until December 19, 2012.

Main Ports Conducted Interference Measurement of Shenzhen Huatongwei International Inspection Co., Ltd has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: C-2726. Date of Registration: December 20, 2009. Valid time is until December 19, 2012.

IECEE CB

Shenzhen Huatongwei International Inspection Co Ltd has been assessed and determined to fully comply with the requirements of ISO/IEC 17025: 2005-05, The Basic Rules, IECEE 01: 2008-11 and Rules of Procedure IECEE 02: 2008-10, and the relevant IECEE CB-Scheme Operational Documents. It is therefore entitled to operate as a CB Testing Laboratory under the responsibility of Nemko A/S. This certificate remains valid until December 3rd 2012 at which time it will be reissued by the IECEE Executive Secretary upon successful completion of the normally scheduled 3-year Reassessment Program administered by the IECEE CB Scheme.

DNV

Shenzhen Huatongwei International Inspection Co Ltd has been found to comply with the requirements of DNV towards subcontractor of EMC and safety testing services in conjunction with the EMC and Low voltage Directives and in the voluntary field. The acceptance is based on a formal quality Audit and follow-ups according to relevant parts of ISO/IEC Guide 17025(2005), in accordance with the requirements of the DNV Laboratory Quality Manual towards subcontractors. Valid time is until 09 July, 2010.

3.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	<u>15-35 ° C</u>
Humidity:	<u>30-60 %</u>
Atmospheric pressure:	<u>950-1050mbar</u>

3.4. Test Description

Emission Measurement		
Radiated Emission	FCC Rules and Regulations Part 18 2009	PASS
Conducted Disturbance	FCC Rules and Regulations Part 18 2009	PASS

Remark: The measurement uncertainty is not included in the test result.

3.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 „Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements“ and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test	Range	Measurement Uncertainty	Notes
Radiated Emission	30~1000MHz	4.24dB	(1)
Conducted Disturbance	0.15~30 MHz	3.39dB	(1)

- (1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3.6. Equipments Used during the Test

Radiated Emission					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	ULTRA-BROADBAND ANTENNA	ROHDE & SCHWARZ	HL562	100015	2009/06
2	EMI TEST RECEIVER	ROHDE & SCHWARZ	ESI 26	100009	2009/11
3	RF TEST PANEL	ROHDE & SCHWARZ	TS / RSP	335015/ 0017	2009/11
4	TURNTABLE	ETS	2088	2149	2009/11
5	ANTENNA MAST	ETS	2075	2346	2009/11
6	EMI TEST SOFTWARE	ROHDE & SCHWARZ	ESK1	N/A	2009/11

Conducted Disturbance					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal.
1	EMI Test Receiver	ROHDE & SCHWARZ	ESCI	100106	2009/11
2	Artificial Mains	ROHDE & SCHWARZ	ESH2-Z5	100028	2009/11
3	Pulse Limiter	ROHDE & SCHWARZ	ESHSZ2	100044	2009/11
4	EMI Test Software	ROHDE & SCHWARZ	ESK1	N/A	2009/11

4. TEST CONDITIONS AND RESULTS

4.1. Radiated Emission

For test instruments and accessories used see section 3.6.

4.1.1. Description of the test location

Test location: Shielded room No. 4

4.1.2. Limits of disturbance

Frequency (MHz)	Distance (Meters)	Field Strengths Limits (dB μ V/m)
30 ~ 88	3	40
88~216	3	43.5
216~1000	3	46

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

(2) Distance refers to the distance in meters between the test instrument antenna and the closest point of any part of the E.U.T.

4.1.3. Description of the test set-up

4.1.3.1. Operating Condition

The EUT is running during the test, and the maximum emanating results are recorded.

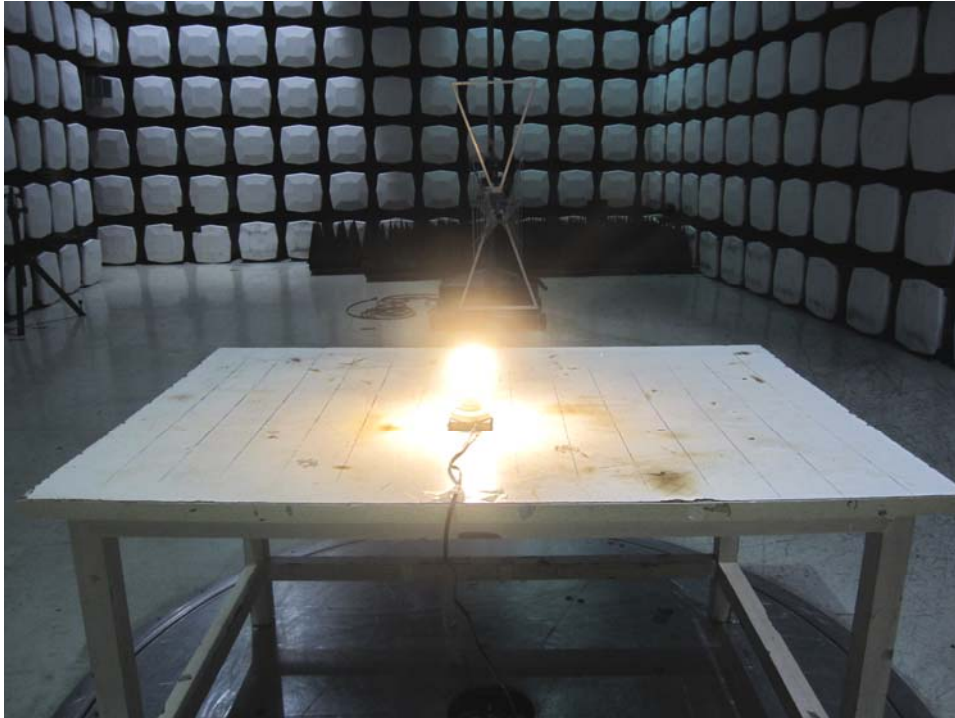
4.1.3.2. Test Procedure

EUT is tested in Semi-Anechoic Chamber. EUT is placed on a nonmetal table which is 0.8 meter above a

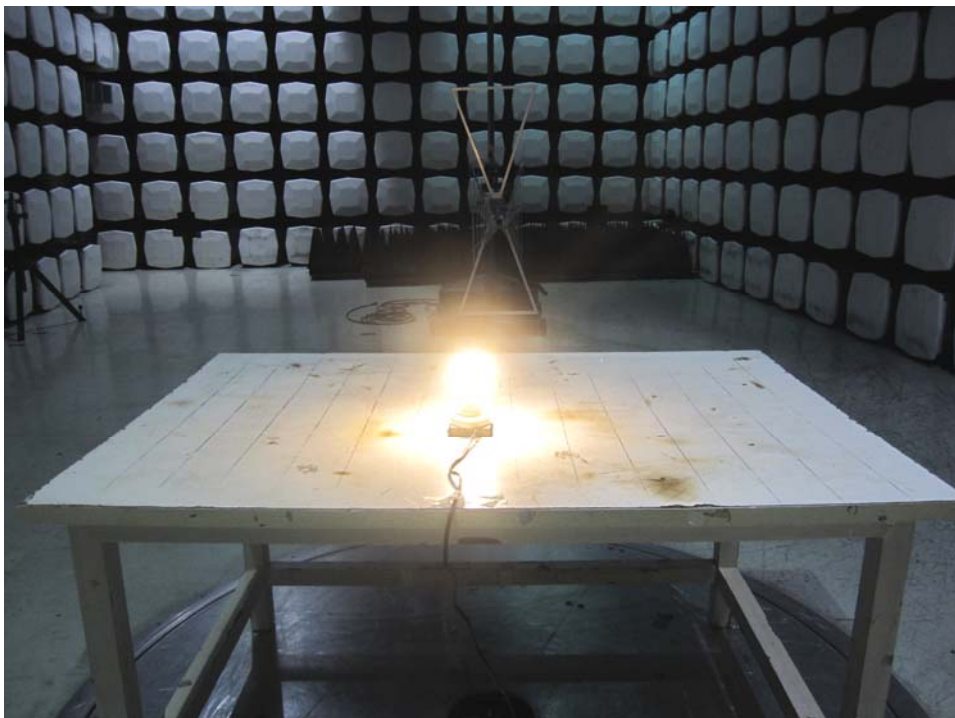
grounded turntable. The turntable can rotate 360 degrees to determine the azimuth of the maximum emission level. EUT is set 3 meters away from the center of receiving antenna, and the antenna can move up and down from 1 to 4 meter to find out the maximum emission level. Both horizontal and vertical polarizations of the antenna are set on the test.

4.1.3.3. Photos of the test set-up

ESE-13W:



ESE-23W:



4.1.4. Test result

The requirements are **Fulfilled**

Band Width: 120KHz

Frequency Range: 30MHz to 1000MHz

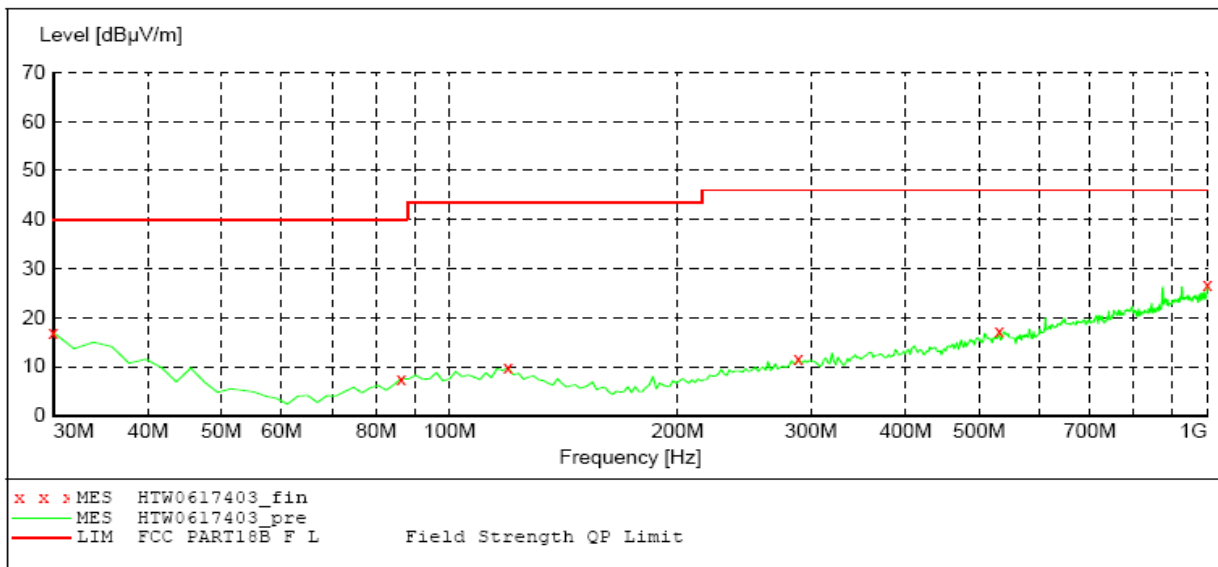
Remarks: The limits are kept. For detailed results, please see the following page(s).
Margin=Limit—Level, Level=read values+transducer, Transducer=Antenna Factor+Pre-
Amplifier Factor+Cable loss (with 6dB Attenuator)

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 18**

EUT: Energy saving lamp M/N:ESE-13W
 Manufacturer: ZHEJIANG NVC LAMPS CO.,LTD
 Operating Condition: ON
 Test Site: 3M CHAMBER
 Operator: NADA
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 6/17/2010 / 8:43:27AM

SCAN TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	QuasiPeak	1.0s	100 kHz	HL562 10
30.0 MHz	1.0 GHz				

**MEASUREMENT RESULT: "HTW0617403_fin"**

6/17/2010 8:45AM

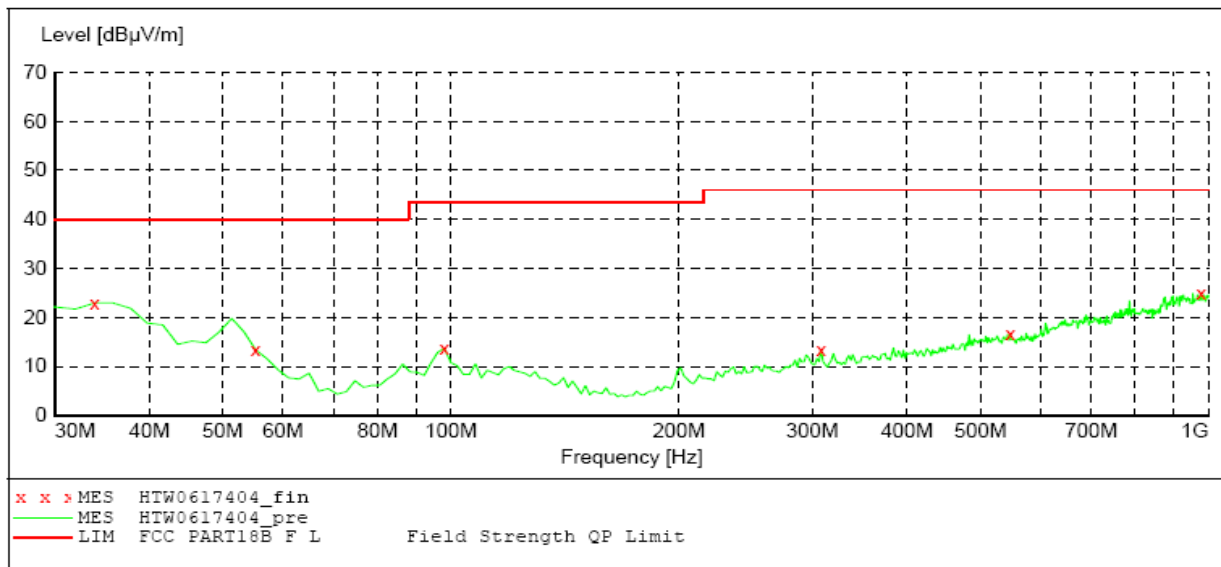
Frequency MHz	Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	17.00	-10.7	40.0	23.0	QP	300.0	179.00	HORIZONTAL
86.372745	7.50	-20.5	40.0	32.5	QP	300.0	313.00	HORIZONTAL
119.418838	9.80	-18.8	43.5	33.7	QP	300.0	320.00	HORIZONTAL
288.537074	11.60	-17.1	46.0	34.4	QP	300.0	219.00	HORIZONTAL
531.523046	17.20	-11.8	46.0	28.8	QP	300.0	286.00	HORIZONTAL
1000.000000	26.80	-2.4	46.0	19.2	QP	100.0	356.00	HORIZONTAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 18**

EUT: Energy saving lamp M/N:ESE-13W
 Manufacturer: ZHEJIANG NVC LAMPS CO.,LTD
 Operating Condition: ON
 Test Site: 3M CHAMBER
 Operator: NADA
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 6/17/2010 / 8:45:45AM

SCAN TABLE: "test (30M-1G)"

Short Description:		Field Strength			
Start	Stop	Detector	Meas. Time	IF Bandw.	Transducer
Frequency	Frequency	QuasiPeak	1.0s	100 kHz	HL562 10
30.0 MHz	1.0 GHz				

**MEASUREMENT RESULT: "HTW0617404_fin"**

6/17/2010 8:47AM

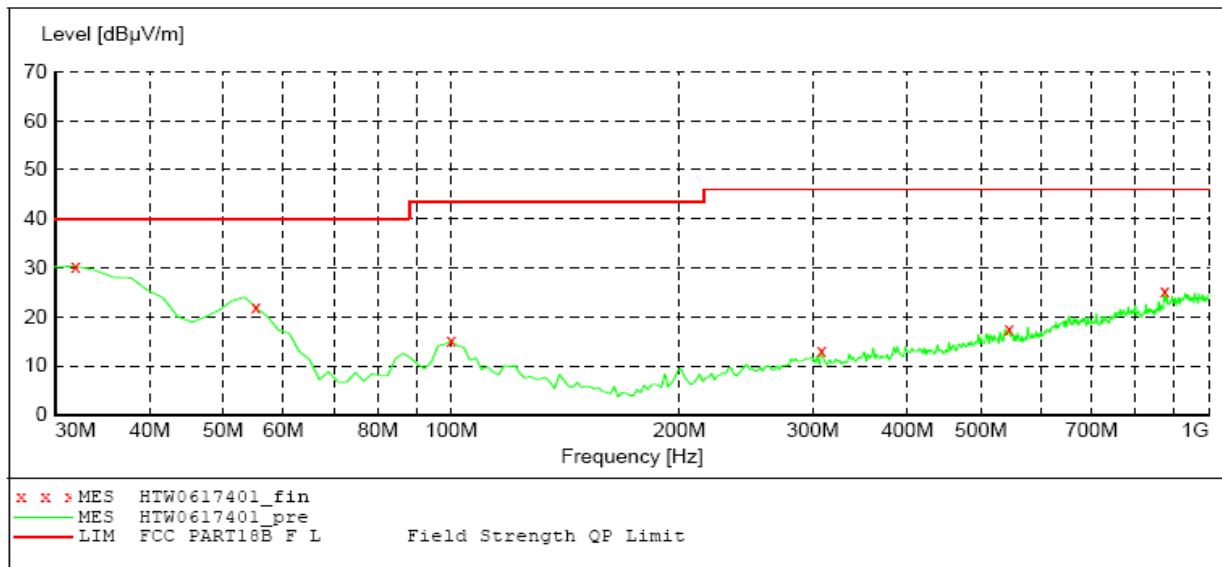
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
33.887776	23.00	-12.9	40.0	17.0	QP	100.0	251.00	VERTICAL
55.270541	13.40	-23.8	40.0	26.6	QP	100.0	238.00	VERTICAL
98.036072	13.70	-19.8	43.5	29.8	QP	100.0	285.00	VERTICAL
307.975952	13.30	-16.9	46.0	32.7	QP	100.0	103.00	VERTICAL
547.074148	16.50	-11.9	46.0	29.5	QP	100.0	83.00	VERTICAL
976.673347	25.00	-3.1	46.0	21.0	QP	100.0	204.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 18**

EUT: Energy saving lamp M/N:ESE-23W
 Manufacturer: ZHEJIANG NVC LAMPS CO.,LTD
 Operating Condition: ON
 Test Site: 3M CHAMBER
 Operator: NADA
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 6/17/2010 / 8:37:28AM

SCAN TABLE: "test (30M-1G)"

Short Description:		Field Strength				
Start	Stop	Detector	Meas.	IF	Transducer	
Frequency	Frequency		Time	Bandw.		
30.0 MHz	1.0 GHz	QuasiPeak	1.0s	100 kHz	HL562 10	

**MEASUREMENT RESULT: "HTW0617401_fin"**

6/17/2010 8:38AM

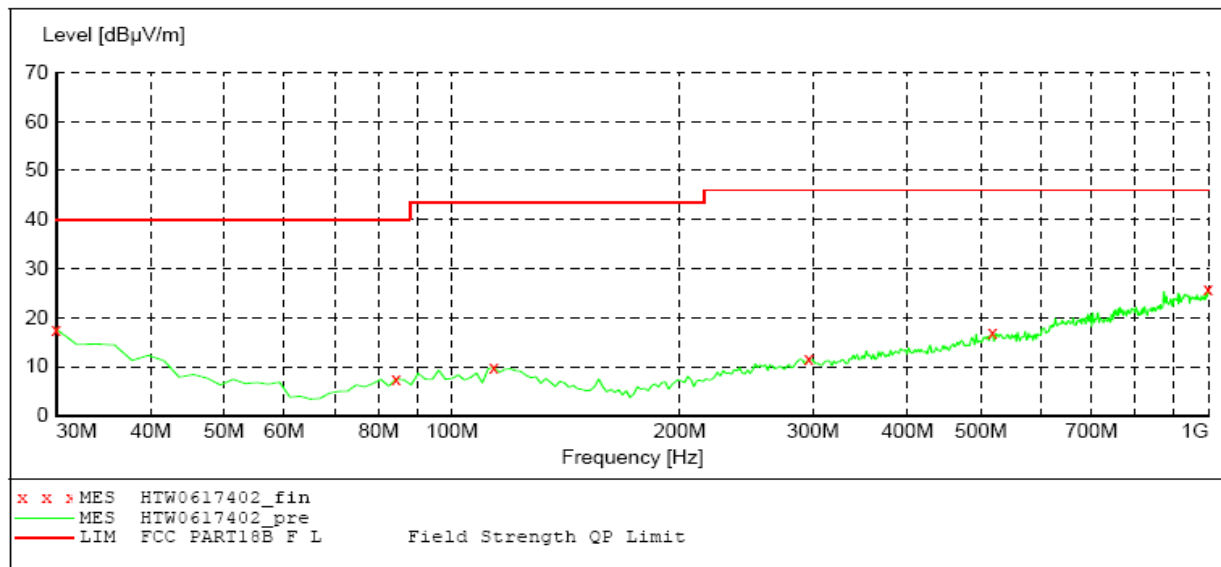
Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
31.943888	30.30	-11.8	40.0	9.7	QP	100.0	15.00	VERTICAL
55.270541	21.90	-23.8	40.0	18.1	QP	100.0	339.00	VERTICAL
99.979960	15.10	-19.8	43.5	28.4	QP	100.0	284.00	VERTICAL
307.975952	13.10	-16.9	46.0	32.9	QP	100.0	292.00	VERTICAL
545.130261	17.60	-11.9	46.0	28.4	QP	100.0	144.00	VERTICAL
873.647295	25.30	-5.5	46.0	20.7	QP	100.0	170.00	VERTICAL

SHENZHEN HUATONGWEI INTERNATIONAL INSPECTION CO.,LTD**RADIATED EMISSION FCC PART 18**

EUT: Energy saving lamp M/N:ESE-23W
 Manufacturer: ZHEJIANG NVC LAMPS CO.,LTD
 Operating Condition: ON
 Test Site: 3M CHAMBER
 Operator: NADA
 Test Specification: AC 120V/60Hz
 Comment:
 Start of Test: 6/17/2010 / 8:39:43AM

SCAN TABLE: "test (30M-1G)"

Short Description:		Field Strength				Transducer
Start	Stop	Detector	Meas.	IF		
Frequency	Frequency		Time	Bandw.		
30.0 MHz	1.0 GHz	QuasiPeak	1.0s	100 kHz		HL562 10

**MEASUREMENT RESULT: "HTW0617402_fin"**

6/17/2010 8:41AM

Frequency MHz	Level dBμV/m	Transd dB	Limit dBμV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
30.000000	17.60	-10.7	40.0	22.4	QP	300.0	249.00	HORIZONTAL
84.428858	7.50	-20.8	40.0	32.5	QP	100.0	304.00	HORIZONTAL
113.587174	9.90	-19.0	43.5	33.6	QP	100.0	339.00	HORIZONTAL
296.312625	11.70	-16.9	46.0	34.3	QP	100.0	157.00	HORIZONTAL
517.915832	16.90	-11.9	46.0	29.1	QP	100.0	257.00	HORIZONTAL
998.056112	25.90	-2.5	46.0	20.1	QP	300.0	54.00	HORIZONTAL

4.2. Conducted Disturbance

For test instruments and accessories used see section 3.6.

4.2.1. Description of the test location

Test location: Shielded room No. 3

4.2.2. Limits of disturbance

Limit of Conducted Disturbance at Mains Ports

Frequency Range (MHz)	Limits (dBuV)
0.45~2.51	48
2.51~3.0	70
3.0~30.0	48

Note: (1) The tighter limit shall apply at the edge between two frequency bands.

4.2.3. Description of the test set-up

4.2.3.1. Operating Condition

The EUT is running during the test, and the maximum emanating results are recorded.

4.2.3.2. Test Procedure

EUT is placed on a nonmetal table 0.8 meter above the grounded reference plane. The power line of the EUT is connected to the LISN which is connected to receiver by coaxial line, and then disturbance signals of the neutral line and live line can be detected by the receiver.

4.2.3.3. Photos of the test set-up

ESE-13W:



ESE-23W:



4.2.4. Test result

The requirements are **Fulfilled**

Band Width: 9KHz

Frequency Range: 150KHz to 30MHz

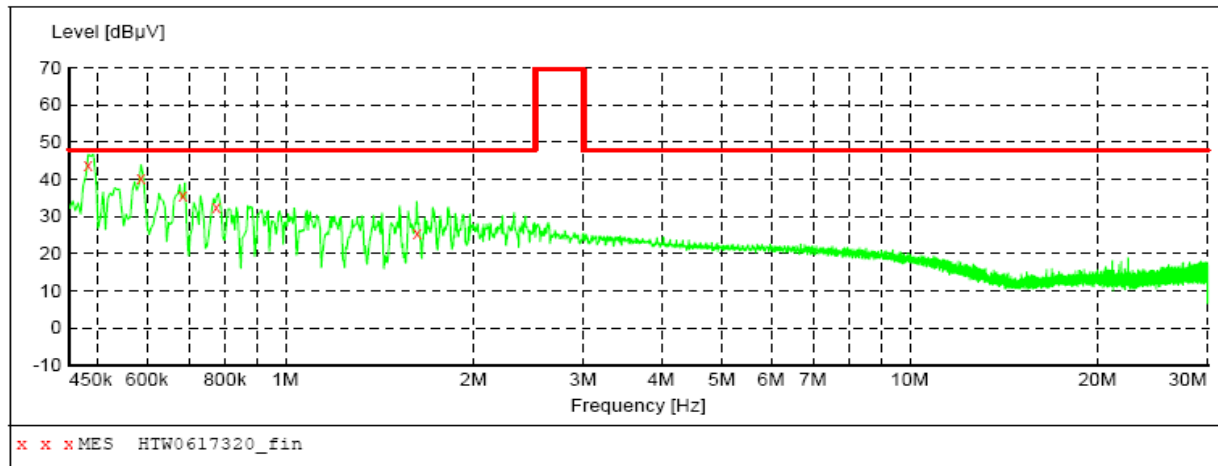
Remarks: The limits are kept. For detailed results, please see the following page(s).
Margin=Limit—Level, Level=read values+transducer, Transducer=Insertion loss of LISN+ Cable loss+ Insertion loss of Pulse limiter

Shenzhen Huatongwei International Inspection CO.,Ltd**Voltage Mains Test FCC PART 18**

EUT: Energy saving lamp M/N:ESE-13W
Manufacturer: ZHEJIANG NVC LAMPS CO.,LTD
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Denson
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/17/2010 / 10:45:10AM

SCAN TABLE: "Voltage (9K-30M) FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "HTW0617320_fin"**

6/17/2010 10:47AM

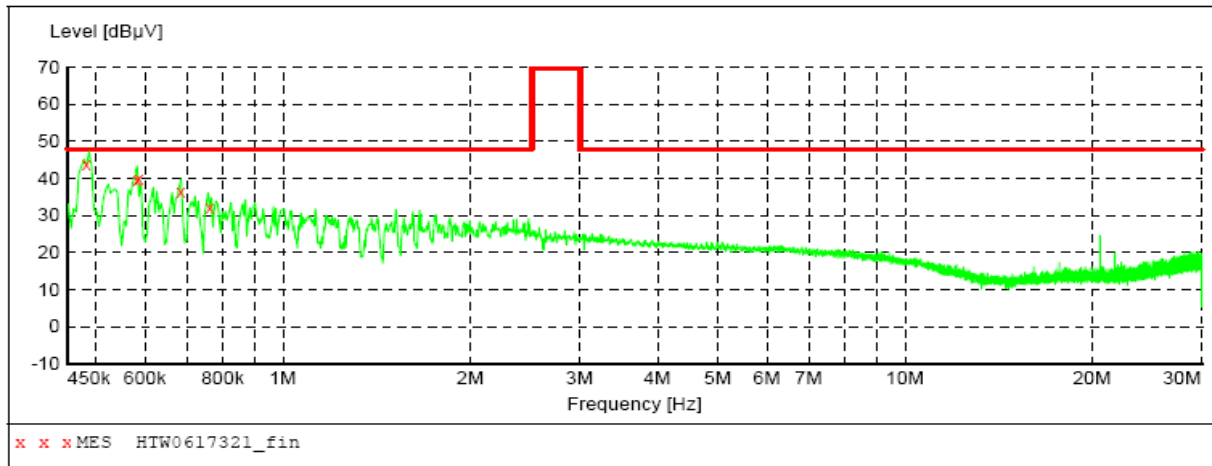
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.483000	43.90	10.1	48	4.0	QP	N	GND
0.586500	40.20	10.1	48	7.7	QP	N	GND
0.685500	35.50	10.1	48	12.4	QP	N	GND
0.775500	32.60	10.1	48	15.3	QP	N	GND
1.626000	25.50	10.2	48	22.4	QP	N	GND

Shenzhen Huatongwei International Inspection CO.,Ltd**Voltage Mains Test FCC PART 18**

EUT: Energy saving lamp M/N:ESE-13W
Manufacturer: ZHEJIANG NVC LAMPS CO.,LTD
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Denson
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/17/2010 / 10:49:12AM

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "HTW0617321_fin"**

6/17/2010 10:51AM

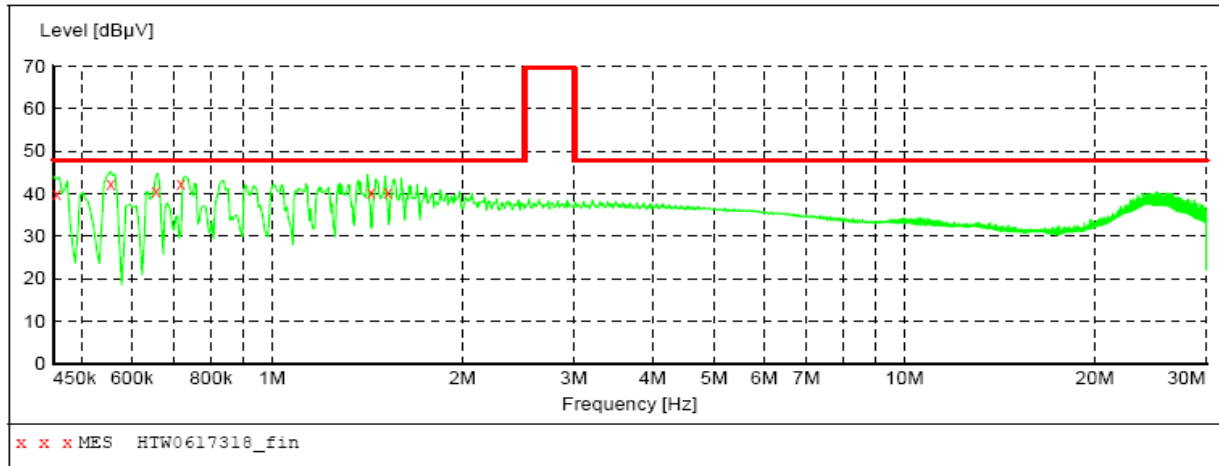
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.483000	43.80	10.1	48	4.1	QP	L1	GND
0.582000	39.60	10.1	48	8.3	QP	L1	GND
0.586500	39.90	10.1	48	8.0	QP	L1	GND
0.685500	36.20	10.1	48	11.7	QP	L1	GND
0.762000	32.10	10.1	48	15.8	QP	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd**Voltage Mains Test FCC PART18**

EUT: Energy saving lamp M/N:ESE-23W
Manufacturer: ZHEJIANG NVC LAMPS CO.,LTD
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Denson
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/17/2010 / 10:27:16AM

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "HTW0617318_fin"**

6/17/2010 10:29AM

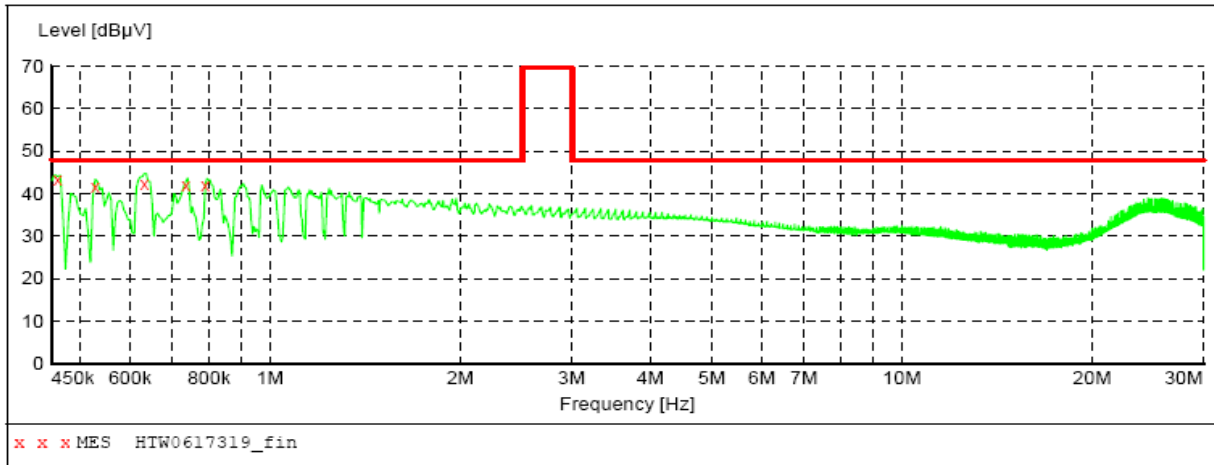
Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.456000	40.00	10.1	48	7.9	QP	L1	GND
0.555000	42.20	10.1	48	5.7	QP	L1	GND
0.654000	40.60	10.1	48	7.3	QP	L1	GND
0.717000	42.10	10.1	48	5.8	QP	L1	GND
1.432500	40.10	10.2	48	7.8	QP	L1	GND
1.522500	40.20	10.2	48	7.7	QP	L1	GND

Shenzhen Huatongwei International Inspection CO.,Ltd**Voltage Mains Test FCC PART18**

EUT: Energy saving lamp M/N:ESE-23W
Manufacturer: ZHEJIANG NVC LAMPS CO.,LTD
Operating Condition: ON
Test Site: 3# SHIELDED ROOM
Operator: Denson
Test Specification: AC 120V/60Hz
Comment:
Start of Test: 6/17/2010 / 10:31:05AM

SCAN TABLE: "Voltage (9K-30M)FIN"

Short Description: 150K-30M Voltage

**MEASUREMENT RESULT: "HTW0617319_fin"**

6/17/2010 10:33AM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.460500	43.20	10.1	48	4.7	QP	N	GND
0.528000	41.50	10.1	48	6.4	QP	N	GND
0.631500	42.10	10.1	48	5.8	QP	N	GND
0.735000	42.00	10.1	48	5.9	QP	N	GND
0.789000	42.00	10.1	48	5.9	QP	N	GND

5. External and Internal Photos of the EUT

5.1. External photos of the EUT

ESE-13W:

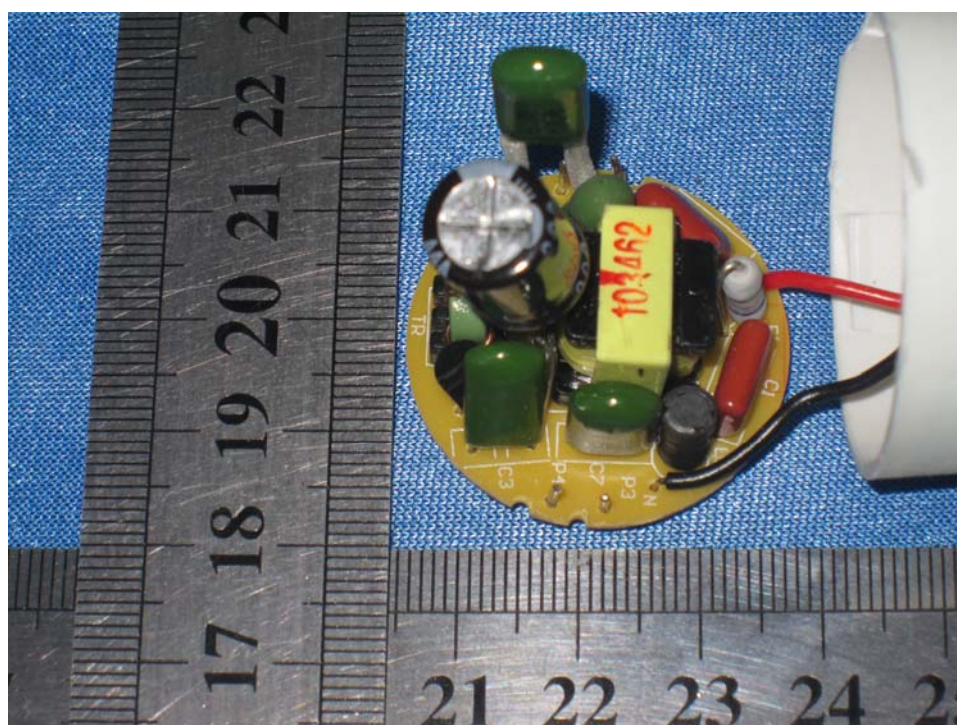


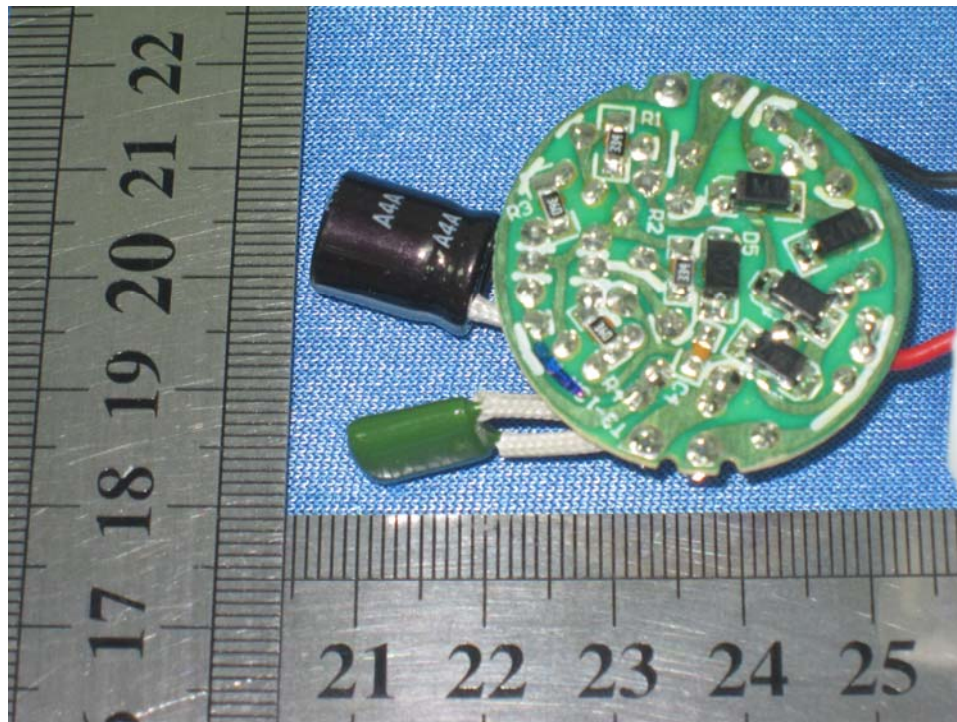
ESE-23W



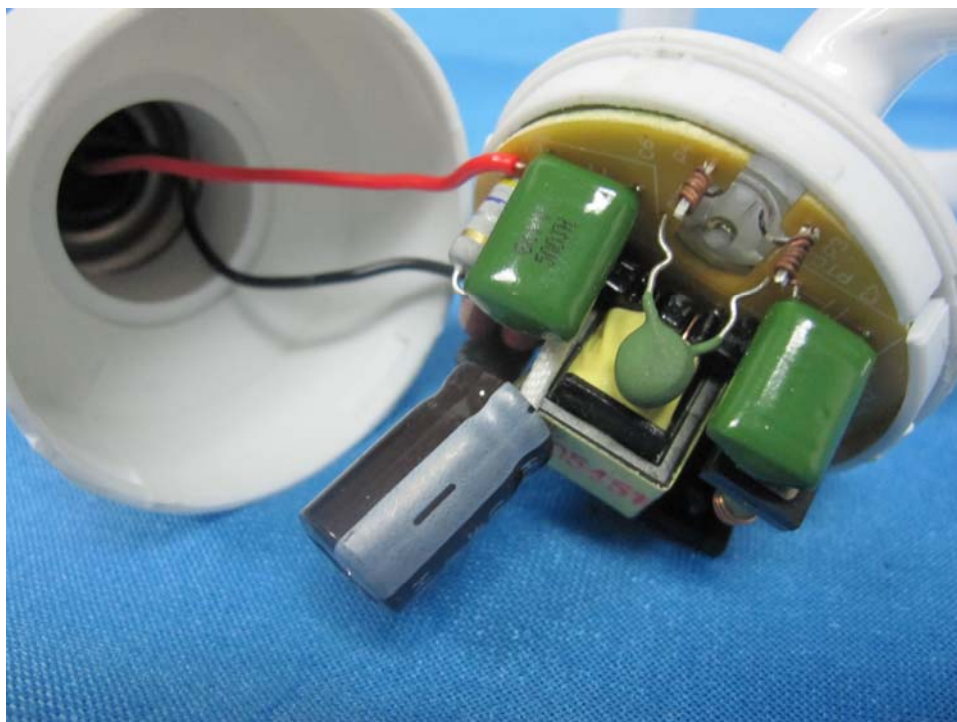
5.2. Internal photos of the EUT

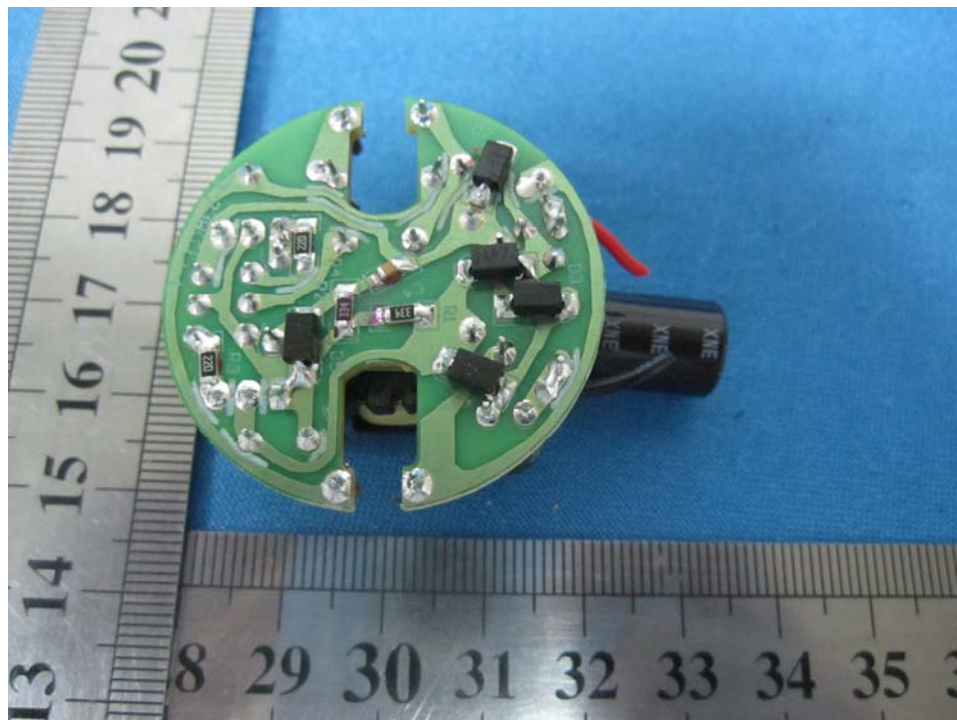
ESE-13W:





ESE-23W:





..... End Of Report.....