



卓時檢測  
TIMEWAY TESTING LABORATORY



ISO/IEC17025 Accredited Lab.

Report No:

File reference No: 2011-02-22

Applicant:

Product: Multifunctional flashlight (Mars no.1)

Brand Name:



Model No: LG801

Test Standards: EN 61000-6-1:2007 EN61000-3-2:2006  
+A1:2009+A2:2009  
EN 61000-6-3:2007 EN 61000-3-3:2008

Test result:

The EMC testing has been performed on the submitted samples and found in compliance with council EMC Directive 2004/108/EC.

Approved By

Terry Tang  
Manager

Dated: Feb 22, 2011

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

East 5/Block 4, Anhua Industrial Zone, No.8, Tairan Rd. CheGongMiao, FuTian  
District, Shenzhen, CHINA

Tel +86-755-83448688

Fax +86-755-83442996



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

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

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 899988**

The 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 No.: 899988.

#### **IC- Registration No.: IC5205A-01**

The EMC Laboratory has been registered and fully described in a report filed with the (IC) Industry Canada. The acceptance letter from the IC is maintained in our files. Registration IC No.: 5205A-01.

#### **VCCI- Registration No.: R-3015 and C-3332**

The EMC Laboratory has been registered and fully described in a report filed with the (VCCI) Voluntary Control Council for Interference. The acceptance letter from the VCCI is maintained in our files. Registration IC No.: R-3015 and C-3332

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## 1.0 General Details

### 1.1 Test Lab Details

Name :

Address:

Telephone: +86-755-83448688

Fax: +86-755-83442996

### 1.2 Applicant Details

Applicant:

Address:

Telephone: 0574-63731378

Fax: 0574-63731368

### 1.3 Description of EUT

Product: Multifunctional flashlight (Mars no.1); Multifunctional flashlight (Mars no.2)

Manufacturer:

Address:

Brand Name:



Model Number: LG801

Adding Model Number: LG802

Remark: Please See Page36.

Rating: Input: 3V Output: 3V (White light) 300mA (Red light) 120mA  
(White light) 0.9W (Red light) 0.36W

### 1.4 Submitted Sample

1 Sample

### 1.5 Test Duration

2011-02-21 to 2011-02-22

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions Uncertainty = 4.7dB

### 1.7 Test Engineer

The sample tested by

*Leo Lau*

Print Name: Leo Lau

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## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2010.5.14	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2010.5.14	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2010.5.14	1 Year
LISN	ESH3-Z5	100294	RS	2010.5.14	1 Year
LISN	ESH3-Z5	100253	RS	2010.5.14	1 Year

### 2.2 Radiated Disturbance Test

Name	Model No	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESVD	100008	RS	2010.5.14	1 Year
Coaxial Switch	MP59B	M70585	ANRITSU	N/A	N/A
Spectrum Analyzer	8595E	3441A00893	HP	2010.5.14	1 Year
Amplifier	8447D	2727A05017	HP	2010.5.14	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2010.5.14	1 Year

### 2.3 Harmonic & Flicker Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Harmonics Flicker Test System	PACS-1	72305	CI	2010.5.14	1 Year
5K VA AC Power Source	5001iX	56060	CI	2010.5.14	N/A

### 2.4 ESD Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
ESD Simulator	DITO	0404-24	EM TEST	2010.5.14	1 Year

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## 2.5 RF field Strength Susceptibility

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Signal Generator	SMT03	100059	RS	2010.5.14	1 Year
Power Meter	NRVS	---	RS	2010.5.14	1 Year
Voltage Probe	URV5-Z2	100012	RS	2010.5.14	1 Year
Voltage Probe	URV5-Z2	100013	RS	2010.5.14	1 Year
Power Amplifier	150W1000	300999	AR	2010.5.14	1 Year
Power Amplifier	25S1G4AM1	305993	AR	2010.5.14	1 Year
Field Probe	CBL6111C	2576	Holaday	2010.5.14	1 Year
Bilog Antenna	MCDC	---	Chase	2010.5.14	1 Year

## 2.6 Electrical Fast Transient/Burst (EFT/B) Immunity test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EFT Generator	UCS 500 M4	0304-42	EM TEST	2010.5.14	1 Year
Power Source	MV2616	0104-14	EM TEST	2010.5.14	1 Year

## 2.7 Surge Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Ultra Compact Simulator	UCS 500 M4	0304-42	EM TEST	2010.5.14	1 Year
Power Source	MV2616	0104-14	EM TEST	2010.5.14	1 Year

## 2.8 Conducted Immunity Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Continuous Wave Simulator	CWS 500C	0407-05	EM TEST	2010.5.14	1 Year

## 2.9 Power-frequency Magnetic Field

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Continuous Wave Simulator	UCS 500 M4	0304-42	EM TEST	2010.5.14	1 Year
Power Source Network	MV 2616	0104-14	EM TEST	2010.5.14	1 Year

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Current Transformer	MC2630	--	EM TEST	2010.5.14	1 Year
Magnetic Coil	MS100	0304-42	EM TEST	2010.5.14	1 Year

#### 2.10 Voltage Dips/Interruption Immunity Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Ultra Compact Simulator	UCS 500 M4	0304-42	EM TEST	2010.5.14	1 Year
Power Source	MV2616	0104-14	EM TEST	2010.5.14	1 Year

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### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] & Electromagnetic Susceptibility [EMS] tests for CE Marking

#### 3.2 Test Standards

Test Standards		
EN 61000-6-3: 2007	Electromagnetic compatibility (EMC)—Part 6-3:Generic Standards —Emission standard for residential, commercial and light-industrial environments	
EN 61000-3-2: 2006 +A1:2009+A2:2009	Electromagnetic compatibility(EMC)- Part 3-2:Limits-Limits for harmonic current emissions(equipment input current $\leq 16A$ per phase)	
EN 61000-3-3: 2008	Electromagnetic compatibility (EMC)- Part 3-3:Limits-Limitation of voltage changes, Voltage fluctuations and flicker in public low-voltage supply systems. For equipment with rated current $\leq 16A$ per phase and not subject to conditional connection	
EN 61000-6-1: 2007	Electromagnetic compatibility (EMC)—Part 6-1:Generic Standards —Immunity standard for residential, commercial and light-industrial environments	
	EN 61000-4-2:2009	Electrostatic discharge
	EN 61000-4-3:2006	RF field strength susceptibility
	EN 61000-4-4:2004	Electrical Fast transients
	EN 61000-4-5:2006	Surge
	EN 61000-4-6:2009	Conducted susceptibility
	EN 61000-4-8:1993 +A1:2001	Magnetic Field
	EN 61000-4-11:2004	Dips/Voltage Interruption Variation

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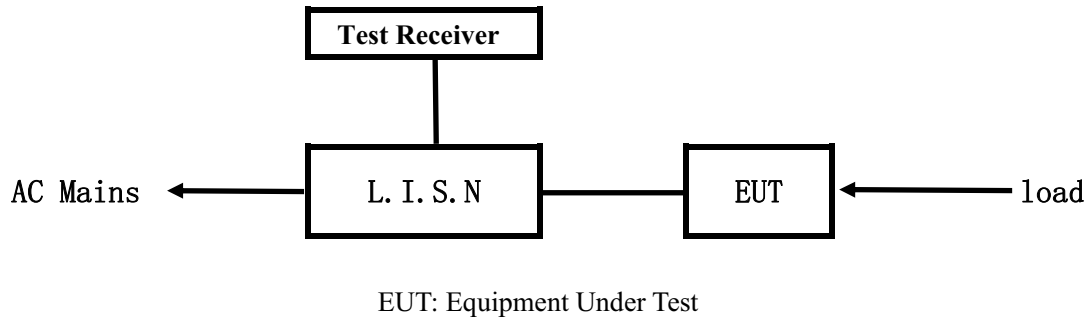
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#### 4.0 Power line Conducted Emission Test

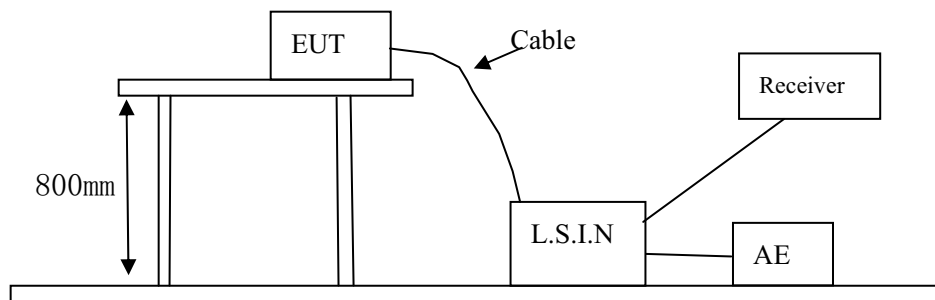
##### 4.1 Schematics of the test



##### 4.2 Test Method:

The test was performed in accordance with EN 61000-6-3:2007

Block diagram of Test setup



##### 4.3 Power line conducted Emission Limit

Frequency (MHz)	Limits (dB $\mu$ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.00~56.00*	56.00~46.00*
0.50 ~ 5.00	56.00	46.00
5.00 ~ 30.00	60.00	50.00

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

##### 4.4 Test Results

Limits for Conducted Emission test, Please refer to limit line (Quasi-peak) in the following diagram labelled as (QP)



**A: Conducted Emission on Live Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Normal Operation Mode

**Results:** N/A

Please refer to following diagram for individual

Frequency (MHz)	Reading(dB $\mu$ V)				Limit	
	Live		Neutral		(dB $\mu$ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
			--	--		
			--	--		

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**B: Conducted Emission on Neutral Terminal of the power line (150kHz to 30MHz)**

EUT set Condition: Normal Operation Mode

**Results:** N/A

Please refer to following diagram for individual

Frequency (MHz)	Reading(dB $\mu$ V)				Limit	
	Live		Neutral		(dB $\mu$ V)	
	Quasi-peak	Average	Quasi-peak	Average	Quasi-peak	Average
	--	--				
	--	--				

Note: Due to DC operation, this test item not applicable.



## 5.0 Radiated Disturbance Test

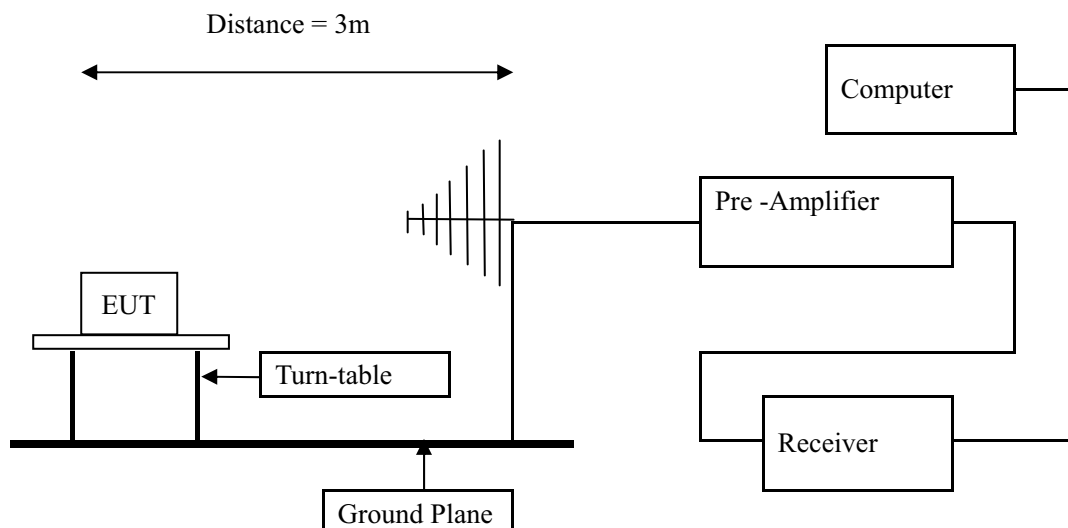
### 5.1 Schematics of the test



### 5.2 Test Method:

The test was performed in accordance with EN 61000-6-3:2007

#### Block diagram of Test setup



### 5.3 Power line conducted Emission Limit

Frequency Range (MHz)	Quasi-Peak limits (dB $\mu$ V/m)
30-230	40.00
230-1000	47.00

Note: The lower limit shall apply at the transition frequencies

### 5.4 Test result

Please refer to following table

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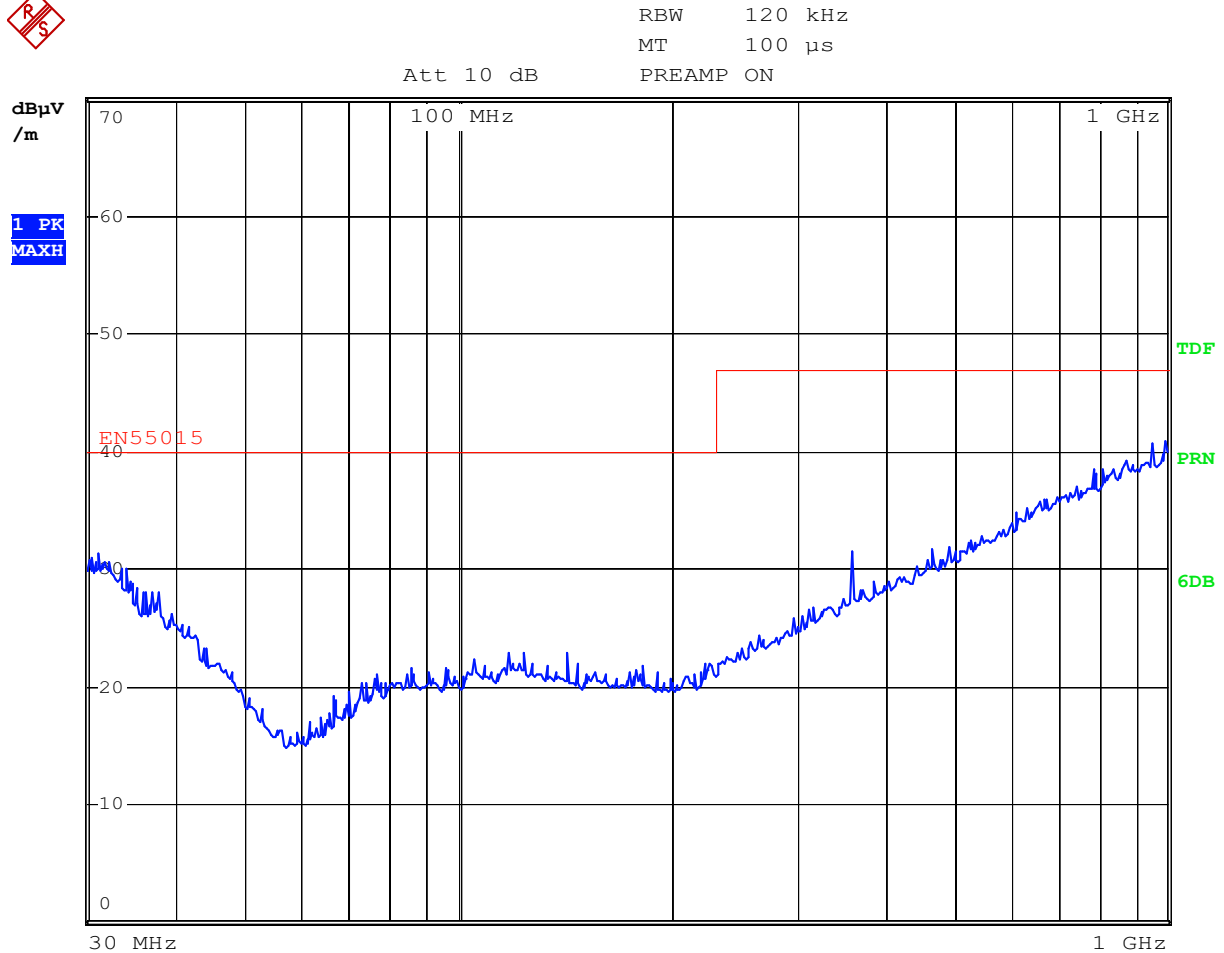


**A: Radiated Disturbance In Horizontal (30MHz----1000MHz)**

EUT set Condition: ON  
Model No.: LG801

**Results: Pass**

Please refer to following diagram for individual



Date: 21.FEB.2011 15:04:37

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
-	-	H	-
-	-	H	-

-The test data shows much less than the limit, no necessary take down the records.

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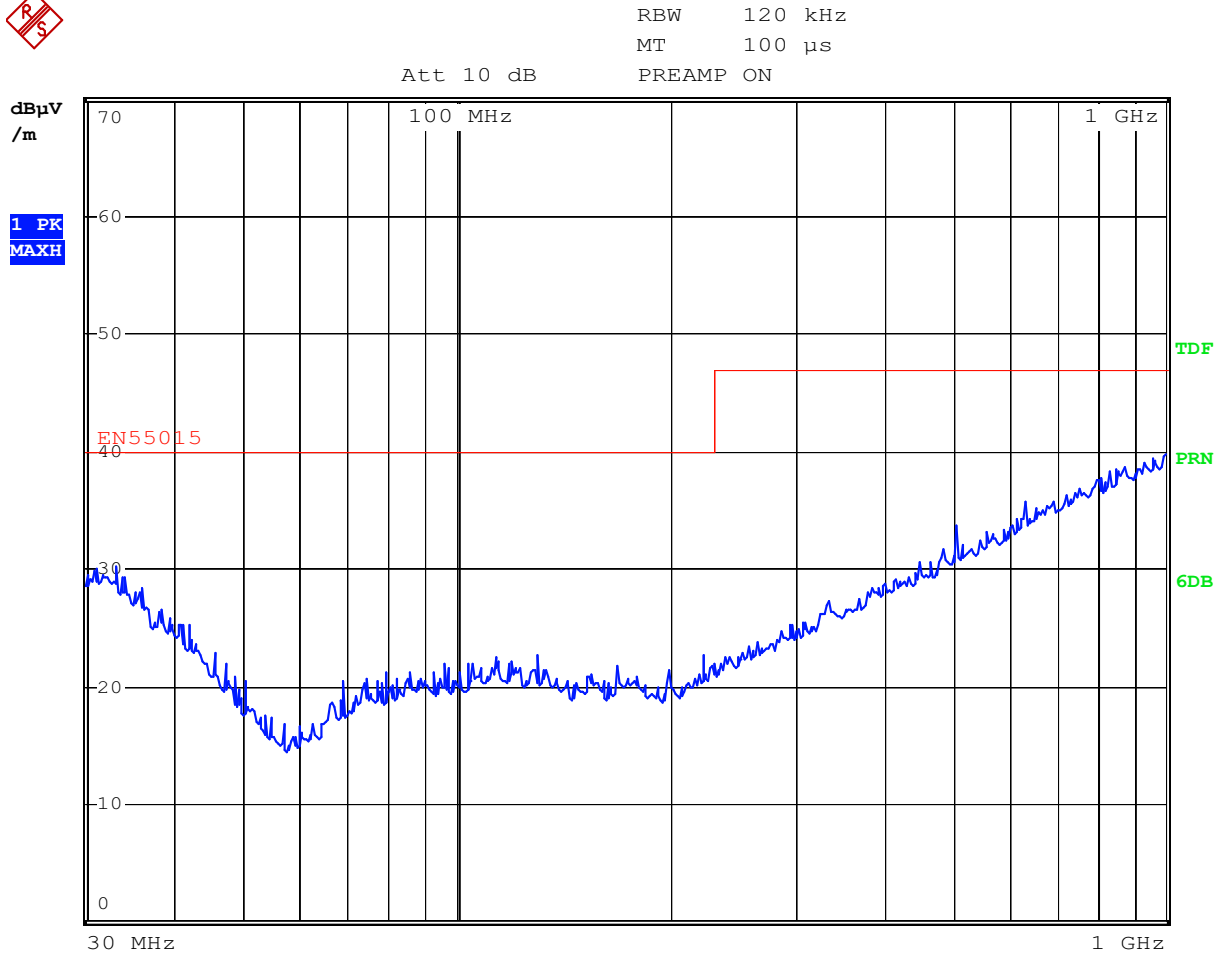
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**B: Radiated Disturbance In Vertical (30MHz---1000MHz)**

EUT set Condition: ON  
Model No.: LG801  
**Results: Pass**

Please refer to following diagram for individual



Date: 21.FEB.2011 15:02:29

Frequency (MHz)	Level@3m (dB $\mu$ V/m)	Antenna Polarity	Limit@3m (dB $\mu$ V/m)
-	-	V	-
-	-	V	-

-The test data shows much less than the limit, no necessary take down the records.

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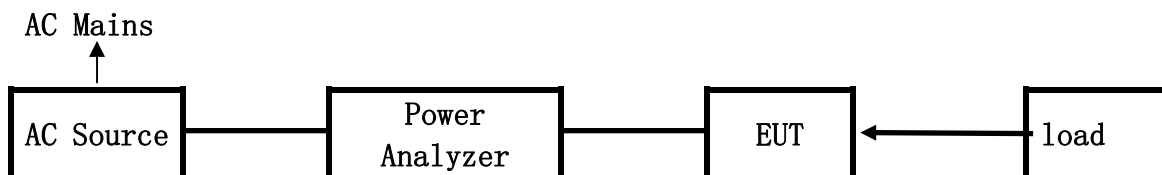
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## 6.0 Voltage Fluctuations & Flicker Test

### 6.1 Schematic of the test



EUT: Equipment Under Test

### 6.2 Test Method:

The test was performed in accordance with EN 61000-3-3:2008

### 6.3 Test Results

Result: N/A

Please refer to the following pages

Maximum Occurring Levels:

Ut: 230.1 (EUT Test RMS Voltage)				
Pst:	-	Limit=	1.0	(The Highest short Term Flicker Value)
Plt:	-	Limit=	0.65	(The Highest Long Term Flicker Value)
dt(%):	-	Limit=	3.3%	(The Highest instantaneous Voltage Change (10ms))
dc(%):	-	Limit=	3.3%	(The highest Relative steady state voltage change (1sec))
dmax:	-	Limit=	4%	(The highest Max Relative voltage change)
Tdt:	-	Limit=	200ms	( The Max Time(in milli-sec) that dt exceeds 3%)

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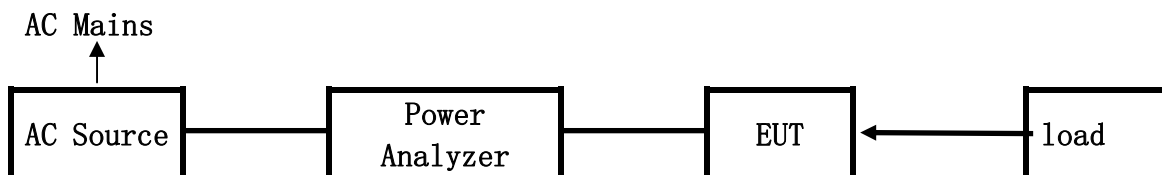
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## 7.0 Harmonic Current Emission Test

### 7.1 Schematic of the test



EUT: Equipment Under Test

### 7.2 Test Method

The test was performed in accordance with EN 61000-3-2:2006 +A1:2009+A2:2009

\*: The Level of the product is: CLASS A

### 7.3 Test Results

Result: N/A

Please refer to the following pages

Rating:

Harmonic results as a% of the limits

No	(Test result/Limit)%	No	(Test result/Limit)%	No	(Test result/Limit)%	No	(Test result/Limit)%
1	-	11	-	21	-	31	-
2	-	12	-	22	-	32	-
3	-	13	-	23	-	33	-
4	-	14	-	24	-	34	-
5	-	15	-	25	-	35	-
6	-	16	-	26	-	36	-
7	-	17	-	27	-	37	-
8	-	18	-	28	-	38	-
9	-	19	-	29	-	39	-
10	-	20	-	30	-	40	-

The report refers only to the sample tested and does not apply to the bulk.

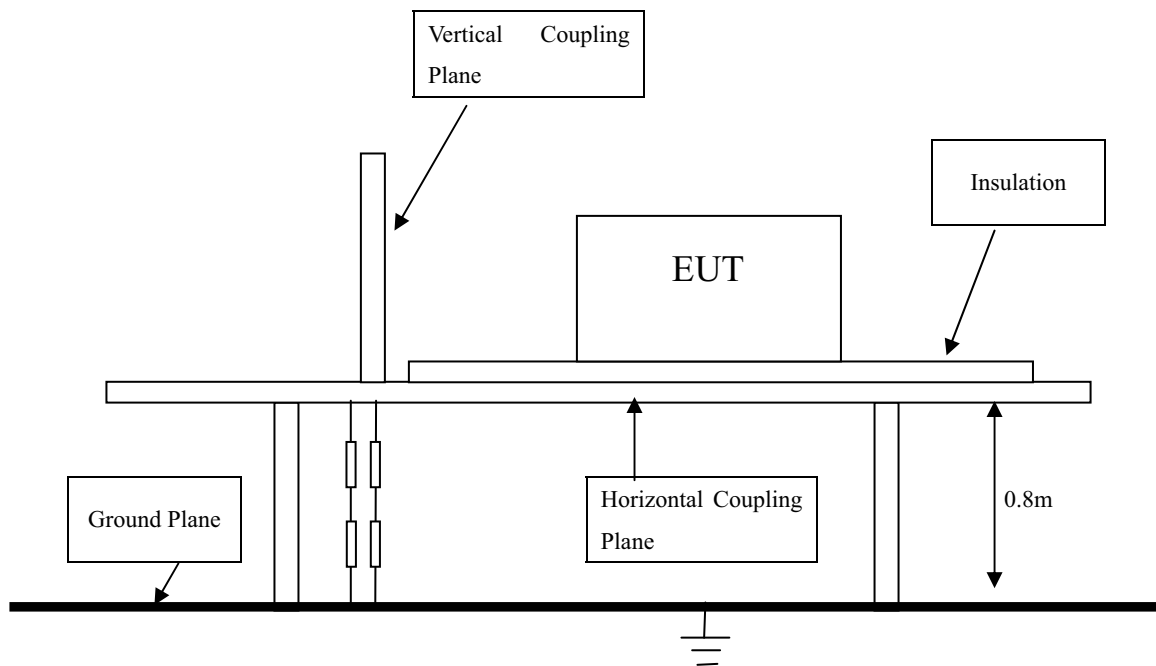
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## 8.0 Electrostatic Discharge

### 8.1 Schematic of the test



### 8.2 Test method

The test was performed in accordance with EN 61000-4-2:2009

### 8.3 Test severity

$\pm 4\text{kV}$  for direct & in-direct Contact Discharge

$\pm 8\text{kV}$  for air Discharge

Performance Criterion Require: A (Please see following table)

### 8.4 Susceptibility performance Criteria and Severity level

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to damage of equipment(components) or software, or loss of data

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#### Severity Level

Level	Test Voltage Direct & in-direct contact Discharge (kV)	Test Voltage Air discharge(kV)
1	$\pm 2\text{kV}$	$\pm 2\text{kV}$
2	$\pm 4\text{kV}$	$\pm 4\text{kV}$
3	$\pm 6\text{kV}$	$\pm 8\text{kV}$
4	$\pm 8\text{kV}$	$\pm 15\text{kV}$

#### 8.5 Test Result

Please refer to the following table for individual results.

Location	Discharge Method	Test Voltage	Results
HCP (Horizontal coupling plane)	In-Direct	$\pm 2\text{kV}$ , $\pm 4\text{kV}$	Pass
VCP (Vertical Coupling plane)	In-Direct	$\pm 2\text{kV}$ , $\pm 4\text{kV}$	Pass
--	Contact Discharge	$\pm 2\text{kV}$ , $\pm 4\text{kV}$	N/A
Gap	Air Discharge	$\pm 8\text{kV}$	Pass
Function Key	Air Discharge	$\pm 8\text{kV}$	Pass

Remark: Calculated measurement uncertainty= 0.2kV

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## 9.0 RF field strength susceptibility (80MHz-----2700MHz)

### 9.1 Schematics of the test



### 9.2 Test Method:

The test was performed in accordance with EN 61000-4-3:2006

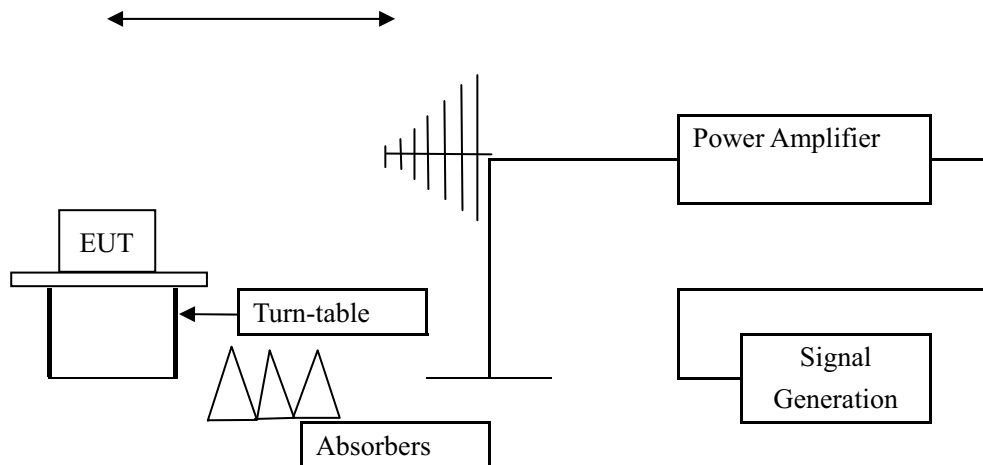
Severity: Level 2 (3V/m) and Level 1 (1V/m)

Modulation: 80% AM

Performance Criterion Require: A (Please see following table)

#### Block diagram of Test setup

Distance = 3m



### 9.3 Susceptibility performance Criteria and severity Level

#### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
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Severity Level

Level	Field Strength (V/m)
1	1
2	3
3	10

9.4 Test Result:

Please refer to the following table for individual results.

Frequency (MHz)	Face	Polarity	Level (V/m)	Dwell Time(s)	Sweep Rate (%)	Results
80-1000 1400-2000	0°	Horizontal	3	1	1	Pass
80-1000 1400-2000	90°	Horizontal	3	1	1	Pass
80-1000 1400-2000	180°	Horizontal	3	1	1	Pass
80-1000 1400-2000	270°	Horizontal	3	1	1	Pass
80-1000 1400-2000	0°	Vertical	3	1	1	Pass
80-1000 1400-2000	90°	Vertical	3	1	1	Pass
80-1000 1400-2000	180°	Vertical	3	1	1	Pass
80-1000 1400-2000	270°	Vertical	3	1	1	Pass
2000-2700	0°	Horizontal	1	1	1	Pass
2000-2700	90°	Horizontal	1	1	1	Pass
2000-2700	180°	Horizontal	1	1	1	Pass
2000-2700	270°	Horizontal	1	1	1	Pass
2000-2700	0°	Vertical	1	1	1	Pass
2000-2700	90°	Vertical	1	1	1	Pass
2000-2700	180°	Vertical	1	1	1	Pass
2000-2700	270°	Vertical	1	1	1	Pass

Remark: Calculated measurement uncertainty= 80MHz to 1000MHz (+3.7/ -1.3) V/m

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## 10.0 Electrical Fast Transient/Burst (EFT/B) immunity test

### 10.1 Schematics of the test



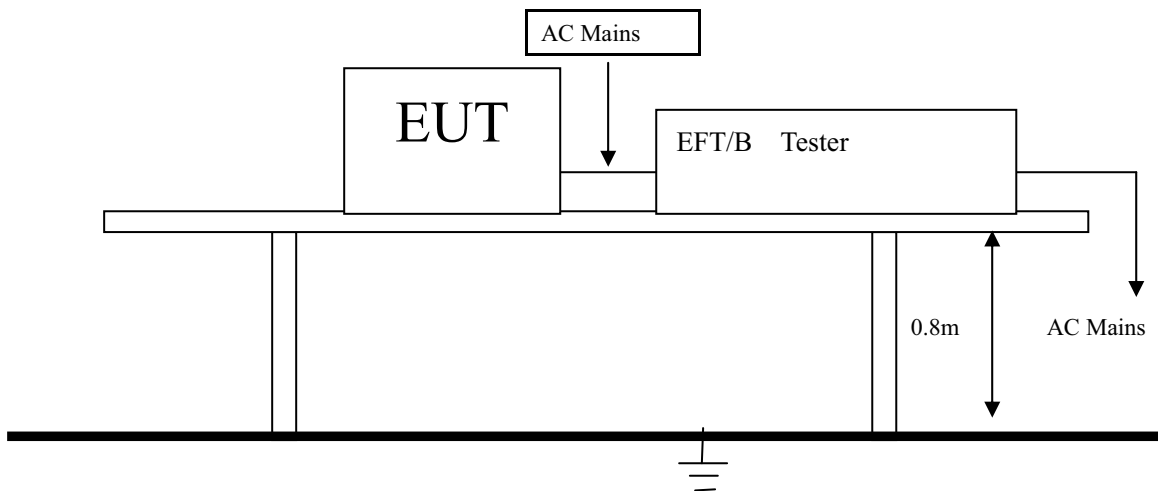
### 10.2 Test Method:

The test was performed in accordance with EN 61000-4-4:2004

Severity: Level 2 (1kV)

Performance Criterion Require: B (Please see following table)

#### Block diagram of Test setup



### 10.3 Susceptibility performance Criteria and Severity Level

#### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
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## Severity Level

Open Circuit output Test Voltage $\pm 10\%$		
Level	On power Supply Lines	On I/O (Input/output) Signal data and control lines
1	0.5kV	0.5kV
2	1kV	1kV
3	2kV	2kV
4	4kV	4kV
X	Special	Special

## 10.4 Test Results

Please refer to following page.

Inject location:

Inject Line	Voltage kV	Inject Times (s)	Method	Results
L-N	$\pm 1$	60	Direct	N/A

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## 11.0 Surge test

### 11.1 Schematics of the test



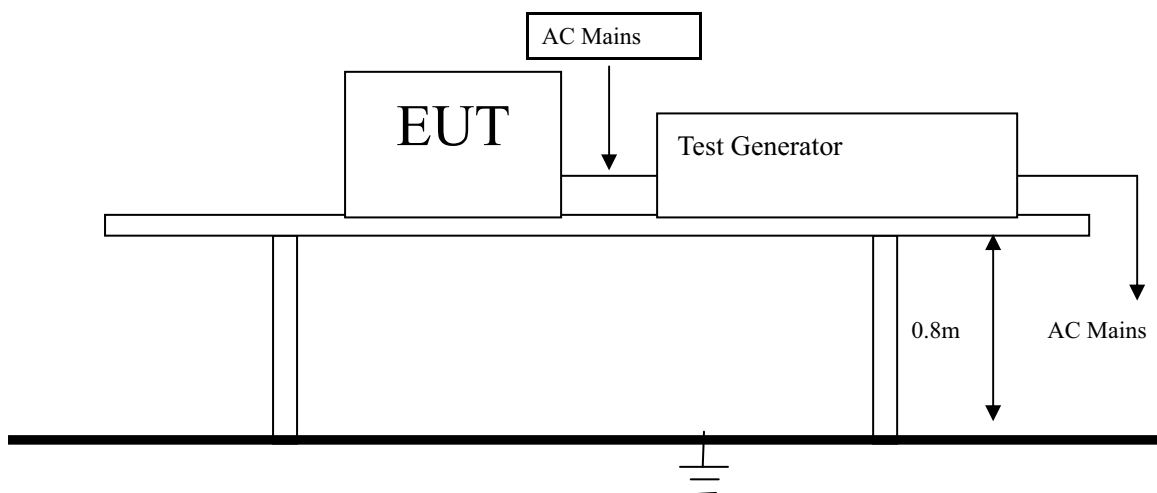
### 11.2 Test Method:

The test was performed in accordance with EN 61000-4-5:2006

Severity: Level 2 (Line to Neutral at 1kV)

Performance Criterion Require: C (Please see following table)

#### Block diagram of Test setup



### 11.3 Susceptibility performance Criteria and Severity Level

#### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
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## Severity Level

Severity Level	Open-Circuit Test Voltage kV
1	0.5
2	1.0
3	2.0
4	4.0
*	Special

## 11.4 Test Results

Please refer to following page.

Test location:

Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage(kV)	Results
L-N	+	0	5	1.0	N/A
	+	90	5	1.0	N/A
	+	180	5	1.0	N/A
	+	270	5	1.0	N/A
	-	0	5	1.0	N/A
	-	90	5	1.0	N/A
	-	180	5	1.0	N/A
	-	270	5	1.0	N/A

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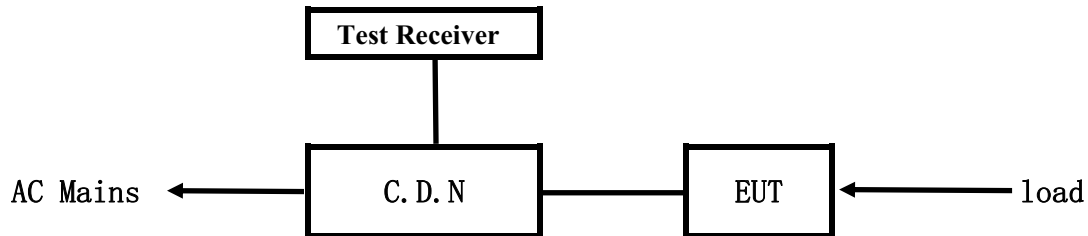
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## 12.0 Conducted Immunity test

### 12.1 Schematics of the test



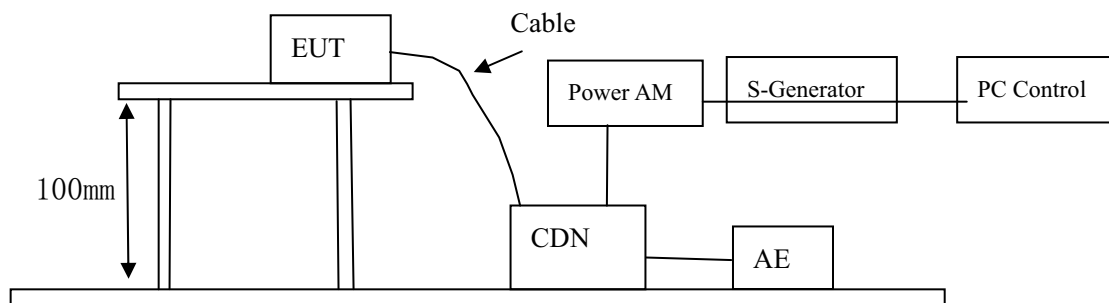
### 12.2 Test Method

The test was performed in accordance with EN 61000-4-6:2009

Severity: Level 2 (3 V rms), 0.15MHz—80MHz

Performance Criterion Require: A (Please see following table)

#### Block diagram of Test setup



### 12.3 Susceptibility performance Criteria and Severity Level

#### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
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## Severity Level

Severity Level	Field Strength V/m
1	1
2	3
3	10
*	Special

## 12.4 Test Results:

Please refer to the following page

Frequency Range (MHz)	Injected Position	Strength	Criterion	Result
0.15 - 20	AC Line	3V (rms) Unmodulated	A	N/A
20 - 80	AC Line	3V (rms) Unmodulated	A	N/A

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### 13.0 Power Frequency magnetic field test

#### 13.1 Schematics of the test



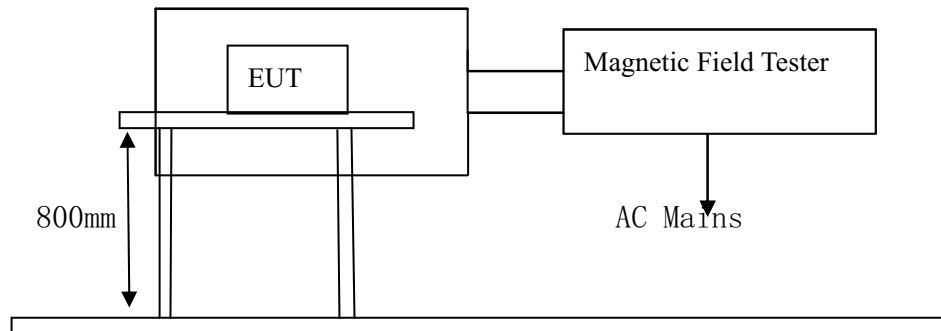
#### 13.2 Test Method

The test was performed in accordance with EN 61000-4-8:1993+A1:2001

Severity: Level 2 (3A/m),

Performance Criterion Require: A (Please see following table)

#### Block diagram of Test setup



#### 13.3 Susceptibility performance Criteria and Severity Level

##### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
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## Severity Level

Severity Level	Magnetic Field Strength A/m
1	1
2	3
3	10
4	30
5	100
*	Special

## 13.4 Test Results:

Please refer to the following page

Test Level	Testing Duration	Coil Orientation	Criterion	Result
3A/m	5 Mins	X	A	N/A
3A/m	5 Mins	Y	A	N/A
3A/m	5 Mins	Z	A	N/A

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#### 14.0 Voltage Dips/Interruptions immunity test

##### 14.1 Schematics of the test

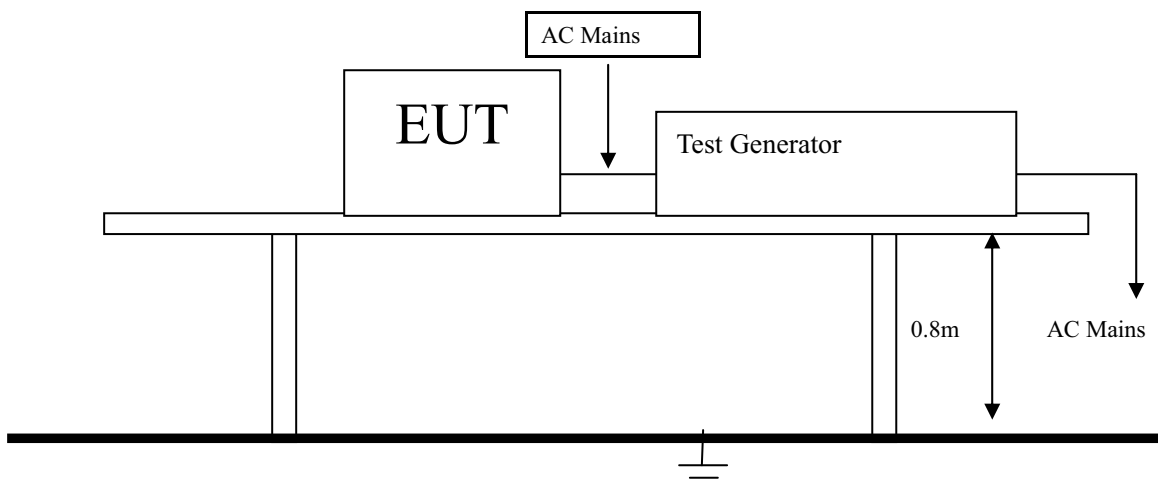


##### 14.2 Test Method:

The test was performed in accordance with EN 61000-4-11:2004

Performance Criterion Require: C&B (Please see following table)

##### Block diagram of Test setup



##### 14.3 Susceptibility performance Criteria and Severity Level

###### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
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Severity Level

Test Level %Ut	Voltage dip and short interruptions %Ut	Duration(in period)
0	100	0.5 1 5 10
70	30	25 50 *

14.4 Test Result:

Please refer to the following page

Test Level % Ut	Voltage dips &short interruptions % Ut	Duration(in period)	Phase Angle	Criterion	Result
0	100	0.5P	0° - 360°	B	N/A
0	100	1P	0° - 360°	B	N/A
70	30	25P	0° - 360°	C	N/A
0	100	250P	0° - 360°	C	N/A

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## 15.0 Product Labelling

### 15.1 CE Mark label specification

Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.



### 15.2 Mark Location: **On the product body.**

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Appendix:

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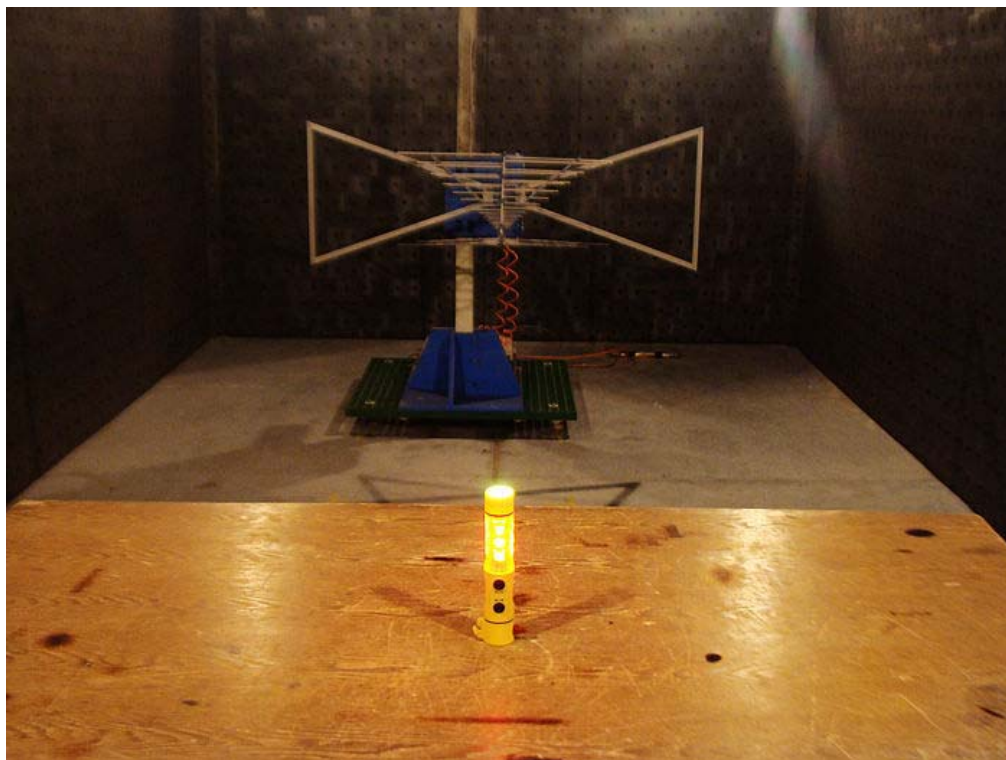
Conducted emission test view:--N/A

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Radiated emission test view:

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Photos of the Product

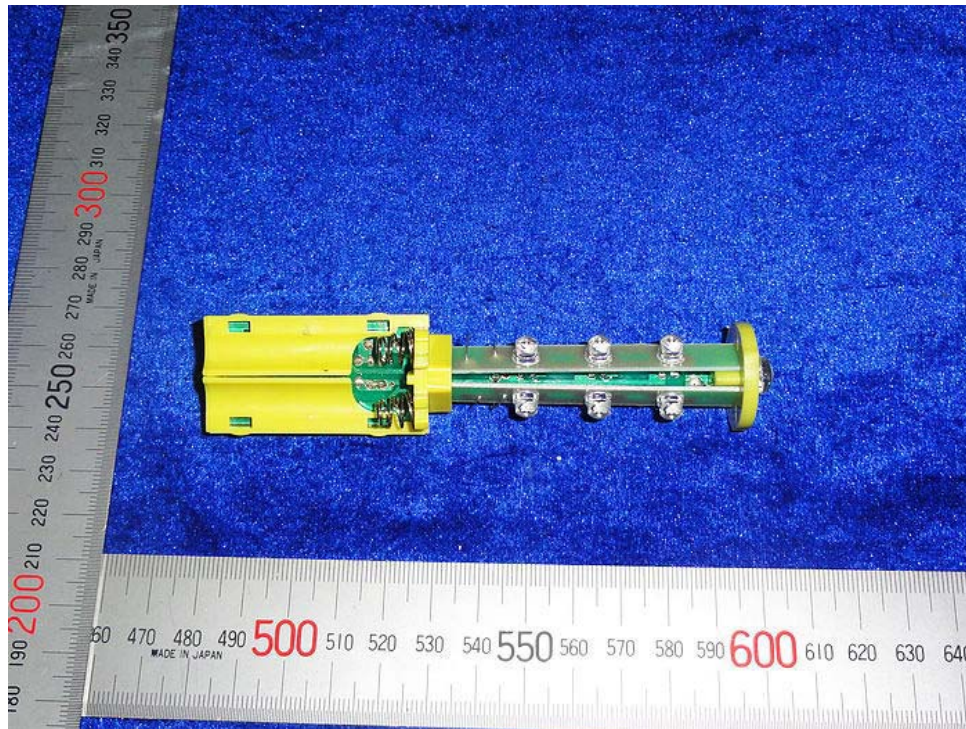


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CIXI LEIGE AUTOMOBILE SUPPLIES FACTORY

Date: 2011.2.23

Subject: Authorization for adding family models

To whom it may concern,

Statement

The shape of **Multifunctional flashlight** is different between them

We need adding model for CE-EMC approval LG802

Brand name is LEIGE

The original Model No. **LG801**

original brade name is

Original report No. is \_\_\_\_\_ ( if applicable)

Yours sincerely,

Signature:



CIXI LEIGE AUTOMOBILE SUPPLIES FACTORY

End of the report

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