

Dongguan Anci Electronic Technology Co., Ltd.

Add.: 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China. Tel: 86 -769 -8507 5888 Fax: 86 -769 -8507 5898 Web: www.anci.com

CERTIFICATE OF CONFORMITY

Certificate No.: 21AE010480E002

This Cerification of Compliance is hereby issued to the product designated below

Report No.

: EA21010480E02001

Applicant

: Ledlenser Corporation Ltd.

Address

No.25, Yudong 1 Road, Dongcheng Town, Yangdong District,

Yangjiang City, GD, 529931, China

Manufacturer

Ledlenser Corporation Ltd.

Address

No.25, Yudong 1 Road, Dongcheng Town, Yangdong District,

Yangjiang City, GD, 529931, China

Description of Product:

Flashlight

Model No.

P18R Work(502188RPL0)

Ratings

100-240V~, 50/60Hz, 400mA Max.[For adapter Input]

5Vdc, 2.4A. [For adapter Output]

11.1V, 33.3Wh, 3000mAh[For luminaires]

Test Standards

EN IEC 55015:2019

EN 61547:2009

EN 61000-3-2:2014

EN 61000-3-3:2013+A1:2019

This certificate of conformity is based on evaluation of a sample of the above mentioned product. Technical report and documentation are at the license Holder's disposal. This is to certify that the tested sample is in conformity with the Council Directive 2014/30/EU, referred to as the EMC. It is possible to use CE marking to demonstrate the conformity with this EMC Directive.

 ϵ

Test Laboratory

Alan He

Director
Date of Issue: January 25, 2021

This certificate of conformity is based on a single evaluation of the submitted sample(s) of the above mentioned product. It does not imply an assessment of the whole production and other relevant Directives have to be observed.

Report No.: EA21010480E02001



EMC TEST REPORT



For Electromagnetic Interference of

Engineer (name + signature).....: Wite Chen

Reviewed by (name + signature): Tiger Xu

Approved by (name + signature).....: Alan He

Date of Receipt of EUT June 20

Date of issue January 25, 2021

Testing Laboratory...... Dong Guan Anci Electronic Technology Co., Ltd

Address 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan

Lake Hi-tech Industrial Development Zone, Dongguan City,

Guangdong Pr., China.

Laboratory location..... EMC Laboratory

Applicant's name Ledlenser Corporation Ltd.

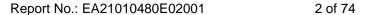
Yangjiang City, GD, 529931, China

Manufacturer Ledlenser Corporation Ltd.

Yangjiang City, GD, 529931, China

First Factory's name...... Ledlenser Corporation Ltd.

Yangjiang City, GD, 529931, China





Test specification:

EUT description: Flashlight

Trade Mark.....

Model/Type reference P18R Work(502188RPL0)

Test Sample...... P18R Work(502188RPL0)

5Vdc, 2.4A. [For adapter Output]

11.1V, 33.3Wh, 3000mAh[For luminaires]

Standards. EN IEC 55015:2019

EN 61547:2009

EN 61000-3-2:2014

EN 61000-3-3:2013+A1:2019

The device described above was tested by Dong Guan Anci Electronic Technology Co., Ltd. to determine the maximum emission levels emanated from the device and severity levels of the device endure and its performance criterion. The measurement results are contained in this test report and Dong Guan Anci Electronic Technology Co., Ltd. assumes full responsibility for the accuracy and completeness of these measurements. This report shows the EUT is technically compliance with the above official standards.

This report applies to the above sample only and shall not be reproduced in part without written approval of Dong Guan Anci Electronic Technology Co., Ltd.



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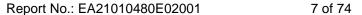


1. GENERAL INFORMATION

1.1 PRODUCT INFORMATION

- 1. The equipment is Flashlight Luminaires for the use in lighting equipment.
- 2. The model of this application is only different in shape and appearance, and the others are all the same structure. Does not involve differences in electrical parameters.
- 3. This test report only reflects the worst data of the test mode.
- 4. This test report is reported for the battery in the original report EA2006341E 02001. This report only makes structural modifications to the battery, and does not involve changes in electrical parameters.

All tests was performed on model P18R Work(502188RPL0). The EUT passed the test.





1.2 Details about the Test Laboratory

Test Site 1

Company name: Dongguan Anci Electronic Technology Co., Ltd.

Address: 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan Lake

Hi-tech Industrial Development Zone, Dongguan City,

Guangdong Pr., China.

Telephone: +86-769-85075888

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Test Site 2

Company name: Guangdong Dongguan Quality Supervision Testing Center

Address: No.2 South Industry Road, Dongguan Songshan Lake

Sci.&Tech. Industrial Park, Guangdong Province, China

Telephone: +86 769 2307 1111

Fax: +86 769 2307 7221





Standard	Test Item	Test Site
	Conducted Disturbance at the electric power supply interface	1
	Conducted Disturbance at wired network interfaces other than powersupply	N/A
EN IEC 55015:2019	Conducted Disturbance at local wired ports other than electrical power supply interface	N/A
	Radiated Disturbance (30MHz to 1GHz)	1
	Magnetic Disturbance (9KHz to 30MHz)	1
EN 61000-3-2:2014	Harmonic Current Emission	N/A
EN 61000-3-3:2013+A1:2019	Voltage Fluctuations & Flicker	N/A
EN 61000-4-2:2009	Electrostatic Discharge	1
EN 61000-4-3:2006 +A1:2008+A2: 2010	RF electromagnetic field	2
EN 61000-4-4:2012	Fast transients	1
EN 61000-4-5:2014	Surges	1
EN 61000-4-6:2014	Injected Current	2
EN 61000-4-8:2010	Power Frequency Magnetic Field	2
EN 61000-4-11:2004	Volt. Interruptions Volt. Dips	1

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2. SUMMARY OF TEST RESULTS

Report No.: EA21010480E02001

Test procedures according to the technical standards:

Emission					
Standard	Test Item	Limits	Judgment	Remark	
	Conducted Disturbance at the electric power supply interface	4.3.1	PASS		
	Conducted Disturbance at wired network interfaces other than powersupply	4.3.2	N/A		
EN IEC 55015:2019	Conducted Disturbance at local wired ports other than electrical power supply interface	4.4	N/A		
	Radiated Disturbance (30MHz to 1GHz)	4.5.3	PASS		
	Magnetic Disturbance (9KHz to 30MHz)	4.5.2	PASS		
EN IEC 61000-3-2:2019	Harmonic Current Emission	7	PASS		
EN 61000-3-3:2013+A1:2019	Voltage Fluctuations & Flicker	5	N/A		
	Immunity (EN61547:2009)				
Section	Test Item	Clause	Judgment	Performan ce Criteria	
EN 61000-4-2:2009	Electrostatic Discharge	5.2	PASS	В	
EN 61000-4-3:2006 +A1:2008+A1:2010	RF electromagnetic field	5.3	PASS	А	
EN 61000-4-4:2012	Fast transients	5.4	PASS	В	
EN 61000-4-5:2014	Surges	5.5	PASS	В	
EN 61000-4-6:2014	Injected Current	5.6	PASS	Α	
EN 61000-4-8:2010	Power Frequency Magnetic Field	5.7	PASS	А	
EN 61000-4-11:2004	Volt. Interruptions Volt. Dips	5.8	PASS	C/B	

NOTE:

(1)" N/A" denotes test is not applicable in this Test Report

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2.1 MEASUREMENT UNCERTAINTY

Report No.: EA21010480E02001

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$ where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$ providing a level of confidence of approximately 95 % $^{\circ}$

A. Conducted Measurement:

Test Site	Method	Measurement Frequency Range	U · (dB)	NOTE
Test Site 1	ANSI	9 KHz ~ 30MHz	3.19	

B. Conducted Disturbance at Control Terminals:

Test Site	Method	Measurement Frequency Range	U · (dB)	NOTE
Test Site 2	ANSI	9 KHz ~ 30MHz	3.19	

C. Magnetic Disturbance (9KHz to 30MHz) t:

Test Site	Method	Measurement Frequency Range	U · (dB)	NOTE
Test Site 1	ANSI	9KHz ~ 30MHz	2.54	

D. Radiated Disturbance (30MHz to 1GHz):

Test Site	Method	Measurement Frequency Range	Ant. H / V	U · (dB)	NOTE
Test Site 1	ANSI	30MHz ~ 200MHz	V	3.69	
		30MHz ~ 200MHz	Н	3.69	
		200MHz ~ 1,000MHz	V	3.67	
		200MHz ~ 1,000MHz	Н	3.67	

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pre-scan mode	
Mode 1	Normal Operation

Final-scan mode	
Mode 1	Normal Operation

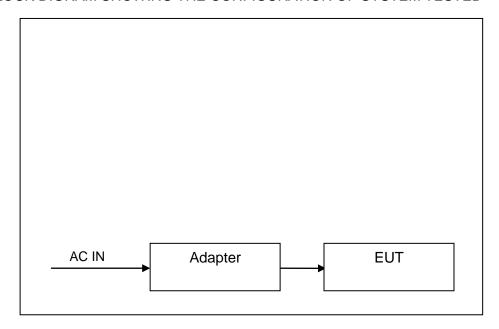
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Rev. 3.1

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Specification
E-1	N/A	N/A

Item	Type of cable
C-1	AC Cable

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3. EMISSION TEST

3.1 Conducted Disturbance at Mains Terminals

Report No.: EA21010480E02001

3.1.1 LIMIT OF CONDUCTED EMISSION(MAINS PORT) (Frequency Range 9KHz-30MHz)

EDECHENCY (MU-)	(dBuV)			
FREQUENCY (MHz)	Quasi-peak	Average		
0.009-0.05	110			
0.05-0.15	90-80			
0.15 -0.5	66 - 56 *	56 - 46 *		
0.50 -5.0	56.00	46.00		
5.0 -30.0	60.00	50.00		

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.009 MHz
Stop Frequency	30 MHz
IF Bandwidth	200Hz (from 9kHz to 150kHz) and 9kHz (from 150kHz to 30MHz).

3.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E010	L.I.S.N	SCHWARZBECK	NSLK 8127	8127-669	2021-05-27
2	AN-E028	TRANSIENT LIMITER	CYBERTEK	EM5010A	E1950100113	2021-05-23
3	AN-E022	RF Cable	N/A	ZT06S-BNCJ-NJ-7.5M	19044020	2021-05-23
4	AN-E020	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2021-05-23
5	AN-E058	1# Shielded Room	chengyu	8m*4m*3.3m	N/A	2022-05-06
6	AN-E046	Test Software	Farad	EZ-EMC Ver:ANCI-8A1	N/A	N/A

Remark: "N/A" denotes No Model No., Serial No. or No Calibration specified.

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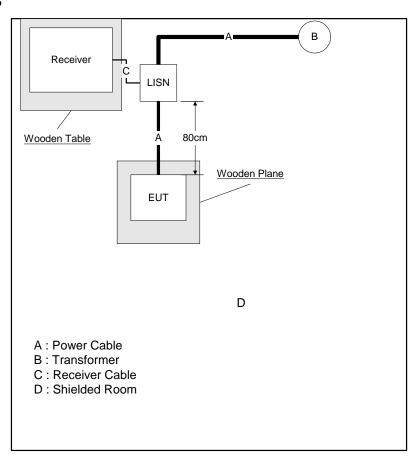
3.1.3 TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation

3.1.5 TEST SETUP



3.1.6 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use.

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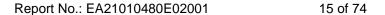
3.1.7 TEST RESULTS

Report No.: EA21010480E02001

EUT:	Flashlight	Model No.:	P18R Work(502188RPL0)
Temperature:	24℃	Relative Humidity:	53%
Pressure:	1008 hPa	Test Power:	AC 230V/50Hz
Test Mode:	Normal Operation		

Remark:

- (1) Reading in which marked as QP means measurements by using Quasi-Peak Detector, and AV means measurements by using Average Detector.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range from 9KHz to 30MHz.

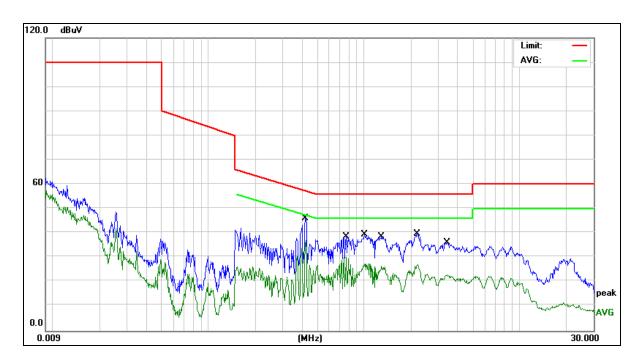




Op Cond.: Normal Operation / Chargeing

Comment: AC 230V/50Hz Line Under Test: Power Line, Live

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuV)	(dB)	ment(dBuV)	(dBuV)	(dB)		
1	0.4220	34.88	10.19	45.07	57.41	-12.34	QP	
2 *	0.4220	25.64	10.19	35.83	47.41	-11.58	AVG	
3	0.7740	26.55	10.22	36.77	56.00	-19.23	QP	
4	0.7740	19.09	10.22	29.31	46.00	-16.69	AVG	
5	1.0140	25.07	10.24	35.31	56.00	-20.69	QP	
6	1.0140	16.29	10.24	26.53	46.00	-19.47	AVG	
7	1.3099	25.42	10.26	35.68	56.00	-20.32	QP	
8	1.3099	15.47	10.26	25.73	46.00	-20.27	AVG	
9	2.2139	25.48	10.30	35.78	56.00	-20.22	QP	
10	2.2139	15.52	10.30	25.82	46.00	-20.18	AVG	
11	3.4220	21.71	10.37	32.08	56.00	-23.92	QP	
12	3.4220	12.31	10.37	22.68	46.00	-23.32	AVG	

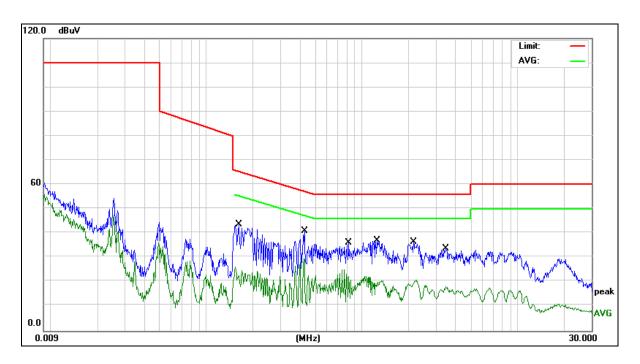




Op Cond.: Normal Operation / Chargeing

Comment: AC 230V/50Hz
Line Under Test: Power Line, Neutral

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuV)	(dB)	ment(dBuV)	(dBuV)	(dB)		
1	0.1620	28.71	10.11	38.82	65.36	-26.54	QP	
2	0.1620	11.25	10.11	21.36	55.36	-34.00	AVG	
3	0.4300	26.90	10.12	37.02	57.25	-20.23	QP	
4 *	0.4300	17.23	10.12	27.35	47.25	-19.90	AVG	
5	0.8260	19.74	10.14	29.88	56.00	-26.12	QP	
6	0.8260	12.46	10.14	22.60	46.00	-23.40	AVG	
7	1.2500	18.08	10.16	28.24	56.00	-27.76	QP	
8	1.2500	8.60	10.16	18.76	46.00	-27.24	AVG	
9	2.1660	16.54	10.21	26.75	56.00	-29.25	QP	
10	2.1660	8.63	10.21	18.84	46.00	-27.16	AVG	
11	3.4900	14.73	10.28	25.01	56.00	-30.99	QP	
12	3.4900	6.87	10.28	17.15	46.00	-28.85	AVG	



3.2 Conducted Disturbance at Control Terminals

3.2.1 Specification Limits

Disturbance voltage limits at the Control terminals					
Fraguenay range	Limits dB(μV)				
Frequency range	Quasi-peak	Average			
0.15MHz to 0.50MHz	84 to 74	74 to 64			
0.50MHz to 30MHz	74	64			

Notes:

- (1) The limit for radiated test was performed according to as following: CISPR 15.
- (2) The tighter limit applies at the band edges.

3.2.2 MEASUREMENT INSTRUMENTS LIST

Equipment	Manufacturer	Model No.	Serial No.	Next Cal.
Test Receiver	Rohde & Schwarz	ESCI	100227	Oct. 17, 2020
L.I.S.N.	SCHWARZBECK	NSLK8126	8126415	Oct. 17, 2020
ISN	Rohde & Schwarz	ENY81-CA6	101564	Oct. 17, 2020
L.I.S.N.	Rohde & Schwarz	ENV4200	100462	Jun.04,2021
Test Receiver	Rohde & Schwarz	ESR3	102520	May.07,2021

3.2.3 TEST PROCEDURE

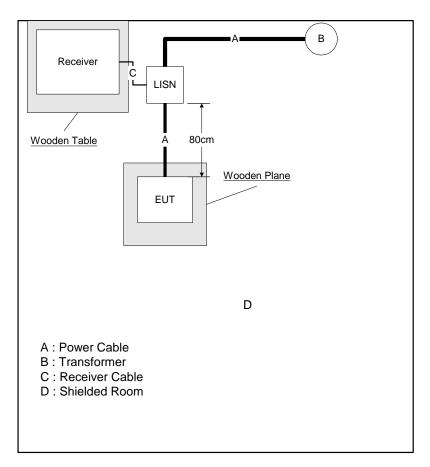
- A. The EUT was placed on a non-conductive table 0.8 m above a reference ground plane.
- B. The EUT was placed on a non-conductive support 0.1 m above a reference ground plane.
- C. All power was connected to the EUT through an Artificial Mains Network (AMN).
- D. Conducted common mode disturbance voltage measurements on signal ports were made at the output of the Impedance Stabilization Network (ISN) in accordance with Annex C 4.1.6.2. The ISN was placed 0.8m from the boundary of the EUT and bonded to a reference ground plane.
- E. Conducted common mode disturbance current measurements on signal ports were made with a current probe and externally fitted 150 Ω resistor in accordance with Annex C 4.1.6.3.
- F. Conducted common mode disturbance current measurements on signal ports were made with using a combination of a current probe and capacitive voltage probe in accordance with Annex C 4.1.6.4.

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3.2.4 TEST SETUP



B.2.5 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use.

B.2.6 TEST RESULTS

EUT:	/	Model No.:	/	
Temperature:	/	Relative Humidity:	/	
Pressure:	/	Test Power:	/	
Test Mode:	1			

Note:

- 1. This test is arranged according to the placement requirements of 3.2.4.
- 2. Test data see next page
- 3. This test is not applicable for products without dimming.
- 4. When the control line and load line are less than 3 meters, this test is not applicable.

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3.3 Radiated Disturbance (30MHz to 1000MHz)

3.3.1 LIMITS OF RADIATED EMISSION MEASUREMENT (Below 1000MHz)

FREQUENCY (MHz)	LIMIT (at 3m)	
FREQUENCT (WINZ)	dBuV/m	
30 – 230	40	
230 – 1000	47	

Notes:

- 1) The limit for radiated test was performed according to as following: CISPR 15.
- 2) The tighter limit applies at the band edges
- 3) Emission level (dBuV/m)=20log Emission level (uV/m).
- 4) Calculation formula: Level=Reading+Factor Margin=Level-Limit.

3.3.2 MEASUREMENT INSTRUMENTS LIST

3m Radiated Emission Measurement 30MHz-1GHz

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E023	EMI Test Receiver	Rohde & Schwarz	ESPI	100502	2020-11-28
2	AN-E006	Pre-Amplifier	HP	8447D	2727A06172	2021-05-23
3	AN-E009	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-588	2021-05-23
4	AN-E033	RF Cable	N/A	N/A	6#	2021-05-23
5	AN-E007	RF Cable	N/A	N/A	1-1#	2021-05-23
6	AN-E043	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2022-05-19
7	AN-E045	Test Software	Farad	EZ-EMC Ver:ANCI-3A1	N/A	N/A

3m Radiated Emission Measurement 1GHz-18GHz

Item	Instr.Code	Kind of Equipment	Manufacturer Type No.		Serial No.	Calibrated until
1	AN-E037	Spectrum Analyzer	Rohde & Schwarz FSV40		102257	2020-11-28
2	AN-E015	Low noise Amplifiers	A-INFO	LA1018N4009	J1013130524001	2021-05-23
3	AN-E014	Horn antenna	A-INFO	LB-10180-SF	J2031090612123	2021-05-23
4	AN-E018	RF Cable	N/A	N/A	1-2#	2021-05-23
5	AN-E004	RF Cable	N/A	N/A	7#	2021-05-23
6	AN-E043	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2022-05-19
7	AN-E045	Test Software	Farad	EZ-EMC Ver:ANCI-3A1	N/A	N/A

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

¹⁻² Floor, Building A, No.11, Headquarters 2 Road, Songshan Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.





3.3.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3m or 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

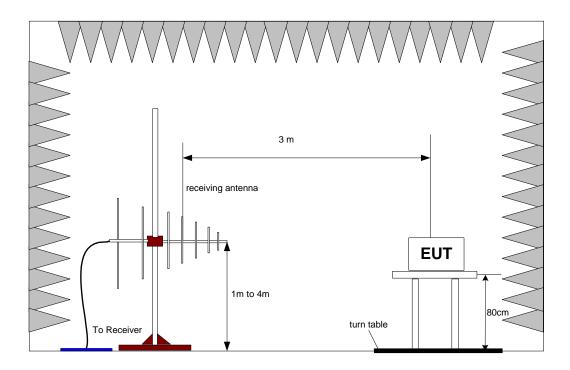
$\sim \sim 1$	$\neg \neg \land \land \land \land \land$		TCT	OTARID	4DD
3 3 /1	1 11 1/14	1 16 3151	1 – 🗸 1	STAND	

No deviation



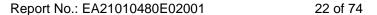
Rev. 3.1

3.3.5 TEST SETUP



3.3.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 3.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.





3.3.7 TEST RESULTS

EUT:	Flashlight	Model No.:	P18R Work(502188RPL0)
Temperature:	23℃	Relative Humidity:	57%
Pressure:	1008 hPa	Test Power:	AC 230V/50Hz
Test Mode:	Normal Operation		

Remark:

- (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Detector or Peak Detector.
- (2) All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1GHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not show in table.





Op Cond.: Normal Operation / Chargeing

Comment: AC 230V/50Hz

Test Spec: Horizontal

Detailed results are shown below



No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg)	
1	80.0806	30.95	-14.86	16.09	40.00	-23.91	QP			
2	102.3597	23.81	-10.60	13.21	40.00	-26.79	QP			
3 *	187.4241	39.87	-10.82	29.05	40.00	-10.95	QP			
4	223.3415	30.93	-9.47	21.46	40.00	-18.54	QP			
5	273.2341	34.39	-8.26	26.13	47.00	-20.87	QP			
6	416.1791	35.64	-5.89	29.75	47.00	-17.25	QP			





Op Cond.: Normal Operation / Chargeing

Comment: AC 230V/50Hz

Test Spec: Vertical

Detailed results are shown below



No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg)	
1	35.1278	34.94	-13.58	21.36	40.00	-18.64	QP			
2 *	44.9006	39.22	-12.10	27.12	40.00	-12.88	QP			
3	153.2004	34.88	-13.48	21.40	40.00	-18.60	QP			
4	176.2686	37.60	-11.76	25.84	40.00	-14.16	QP			
5	266.1419	31.06	-8.43	22.63	47.00	-24.37	QP			
6	412.5467	39.64	-5.96	33.68	47.00	-13.32	QP			

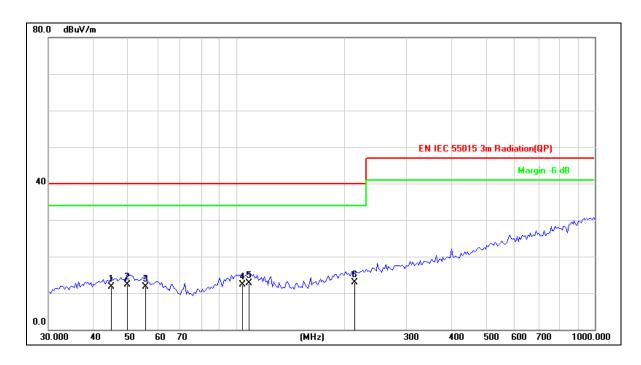




Op Cond.: Normal Operation / Dischargeing

Comment: Battery 11.1V
Test Spec: Horizontal

Detailed results are shown below



No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg)	
1	44.9006	23.80	-12.10	11.70	40.00	-28.30	QP			
2	49.8814	23.90	-11.50	12.40	40.00	-27.60	QP			
3	55.9026	24.15	-12.45	11.70	40.00	-28.30	QP			
4	104.1701	22.93	-10.63	12.30	40.00	-27.70	QP			
5	108.8377	23.50	-10.70	12.80	40.00	-27.20	QP			
6 *	213.7634	22.71	-9.71	13.00	40.00	-27.00	QP			



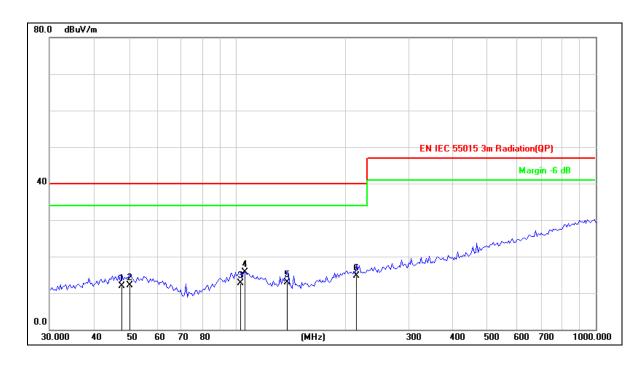


Op Cond.: Normal Operation / Dischargeing

Comment: Battery 11.1V

Test Spec: Vertical

Detailed results are shown below



No.	Frequency	Reading	Factor	Level	Limit	Margin	Det.	Height	Azimuth	Remark
	(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)		(cm)	(deg)	
1	47.7422	23.76	-11.76	12.00	40.00	-28.00	QP			
2	50.3206	23.75	-11.55	12.20	40.00	-27.80	QP			
3	102.3597	23.40	-10.60	12.80	40.00	-27.20	QP			
4 *	105.0873	26.31	-10.64	15.67	40.00	-24.33	QP			
5	137.9028	26.79	-13.79	13.00	40.00	-27.00	QP			
6	215.6456	24.36	-9.66	14.70	40.00	-25.30	QP			



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3.4 MAGNETIC EMISSION MEASUREMENT

3.4.1 MEASUREMENT INSTRUMENTS LIST

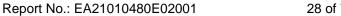
Report No.: EA21010480E02001

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E013	3 Loop Antenna	Da Ze	ZN30401	2944A09491	2021-05-23
3	AN-E026	RF Cable	N/A	ZT06S-NJ-NJ-3M	19044021	2021-05-23
4	AN-E020	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2021-05-23
5	AN-E058	1# Shielded Room	chengyu	8m*4m*3.3m	N/A	2022-05-06
6	AN-E046	Test Software	Farad	EZ-EMC Ver:ANCI-8A1	N/A	N/A

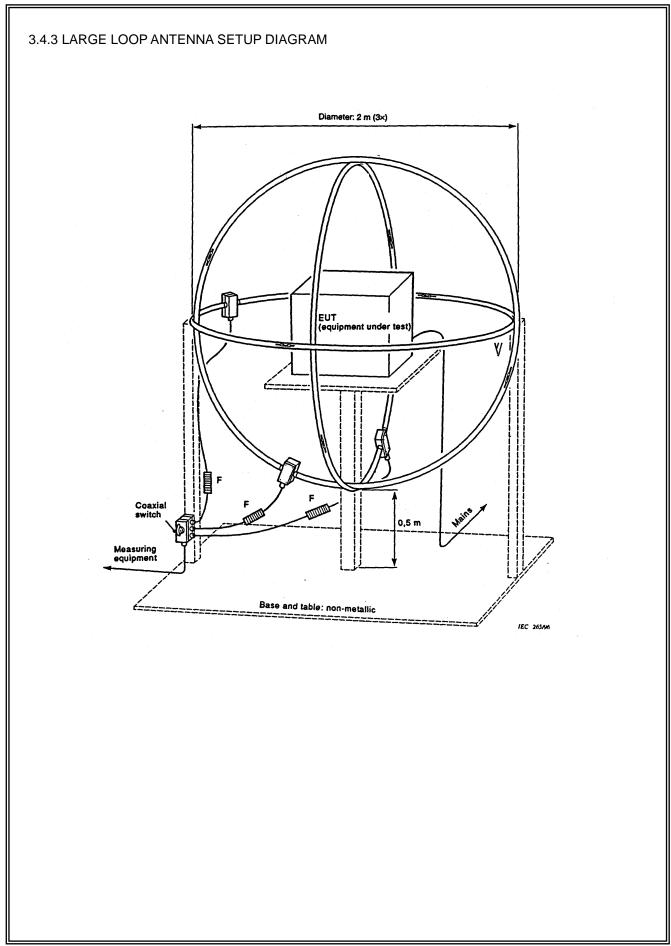
Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

3.4.2 LIMITS OF MAGNETIC EMISSION MEASUREMENT

Francisco Banga	Limits for loop diameter dB(A) ⁽¹⁾
Frequency Range	2m
9KHz-70KHz	88
70KHz-150KHz	88-58
150KHz-3.0MHz	58-22
3.0MHz-30MHz	22







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3.4.4 OPERATING CONDITIONS OF THE EUT

The exercise program used during conducted emission measurement was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

- 1. Setup the EUT and simulators as shown on 3.3.
- 2. Turn on the power of all equipments.
- 3. Start test.

3.4.5 MAGNETIC EMISSION DATA

The quasi-peak limits of the magnetic component of the radiated electromagnetic disturbance field strength in the frequency range **9kHz to 30MHz** measured as a current in 2m, loop antennas around the lighting equipment.

The measurement range of radiated emission, which is from 9kHz to 30MHz, was investigated. All readings are quasi-peak values with a proper resolution Bandwidth. The initial step in collecting radiated emission data is a spectrum analyzer peak scans of the measurement range for all the test modes and then use test receiver for final measurement. Then the worst modes were reported the following data pages.





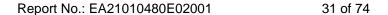
3.4.6 TEST RESULTS

EUT:	Flashlight	Model No.:	P18R Work(502188RPL0)
Temperature:	23℃	Relative Humidity:	57%
Pressure:	1008 hPa	Test Power:	AC 230V/50Hz
Test Mode:	Normal Operation		

Remarks:

- 1. Measurement = Reading + Factor
- 2. Over Limit (Margin Value)=Measurement level-Limit value.

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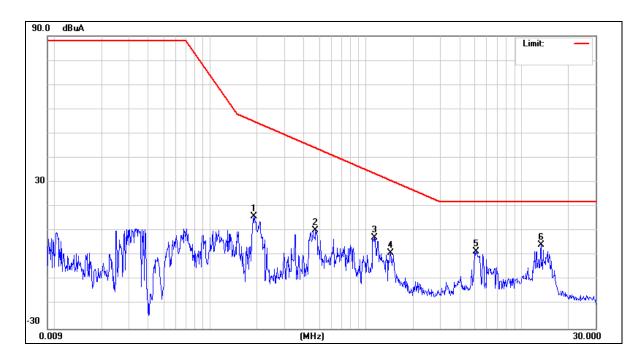


Op Cond.: Normal Operation / Dischargeing

Comment: Battery 11.1 V

Test Spec.: X (2m)

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.1900	5.72	10.48	16.20	55.15	-38.95	peak	
2	0.4780	-0.16	10.40	10.24	44.07	-33.83	peak	
3	1.1420	-3.23	10.46	7.23	33.60	-26.37	peak	
4	1.4540	-9.47	10.43	0.96	30.70	-29.74	peak	
5	5.1500	-8.81	10.47	1.66	22.00	-20.34	peak	
6 *	13.3980	-6.11	10.44	4.33	22.00	-17.67	peak	



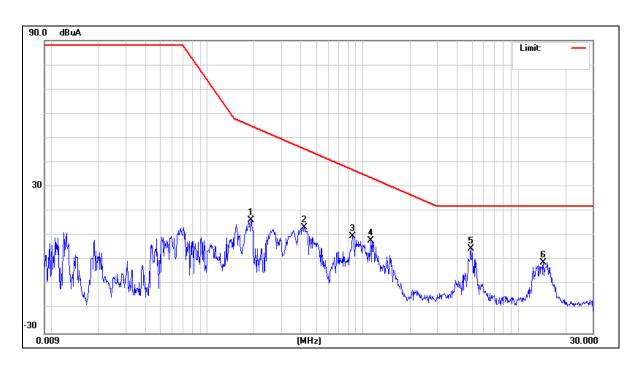


Op Cond.: Normal Operation / Dischargeing

Comment: Battery 11.1V

Test Spec.: Y (2m)

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.1915	5.99	10.47	16.46	55.06	-38.60	peak	
2	0.4218	3.04	10.41	13.45	45.57	-32.12	peak	
3	0.8659	-0.79	10.46	9.67	36.93	-27.26	peak	
4	1.1257	-2.51	10.47	7.96	33.78	-25.82	peak	
5 *	4.9740	-5.92	10.47	4.55	22.00	-17.45	peak	
6	14.5099	-11.60	10.44	-1.16	22.00	-23.16	peak	



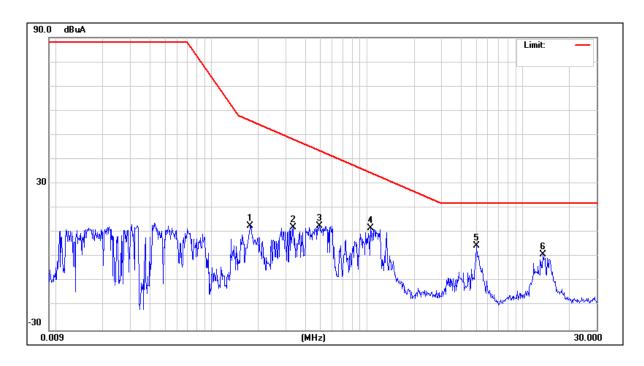


Op Cond.: Normal Operation / Dischargeing

Comment: Battery 11.1V

Test Spec.: Z (2m)

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.1779	2.34	10.48	12.82	55.94	-43.12	peak	
2	0.3379	1.67	10.43	12.10	48.23	-36.13	peak	
3	0.4979	2.34	10.39	12.73	43.58	-30.85	peak	
4	1.0580	1.25	10.47	11.72	34.52	-22.80	peak	
5 *	5.1059	-5.76	10.47	4.71	22.00	-17.29	peak	
6	13.5617	-9.28	10.44	1.16	22.00	-20.84	peak	



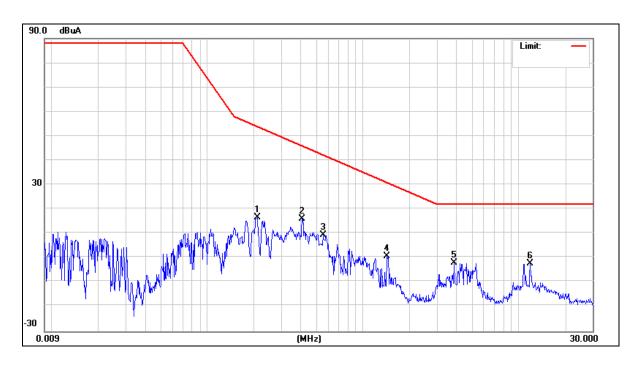


Op Cond.: Normal Operation / Chargeing

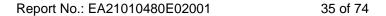
Comment: AC 230V/50Hz

Test Spec.: X (2m)

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.2099	6.08	10.47	16.55	53.96	-37.41	peak	
2	0.4097	5.55	10.41	15.96	45.92	-29.96	peak	
3	0.5580	-0.96	10.40	9.44	42.21	-32.77	peak	
4	1.4255	-9.66	10.43	0.77	30.94	-30.17	peak	
5 *	3.8740	-12.45	10.43	-2.02	22.00	-24.02	peak	
6	11.9336	-12.66	10.45	-2.21	22.00	-24.21	peak	



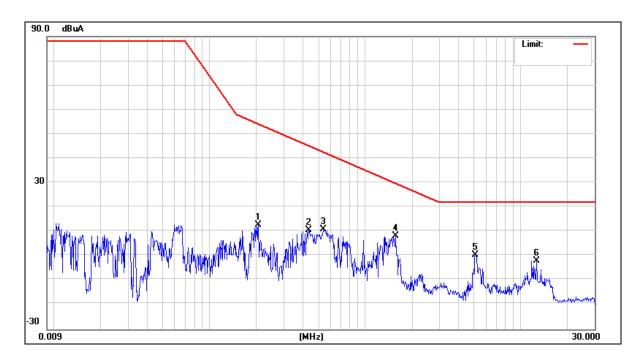


Op Cond.: Normal Operation / Chargeing

Comment: AC 230V/50Hz

Test Spec.: Y (2m)

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.2058	2.33	10.47	12.80	54.19	-41.39	peak	
2	0.4380	0.34	10.41	10.75	45.12	-34.37	peak	
3	0.5420	0.66	10.40	11.06	42.56	-31.50	peak	
4 *	1.5859	-2.06	10.42	8.36	29.66	-21.30	peak	
5	5.1340	-10.13	10.47	0.34	22.00	-21.66	peak	
6	12.7736	-12.43	10.45	-1.98	22.00	-23.98	peak	





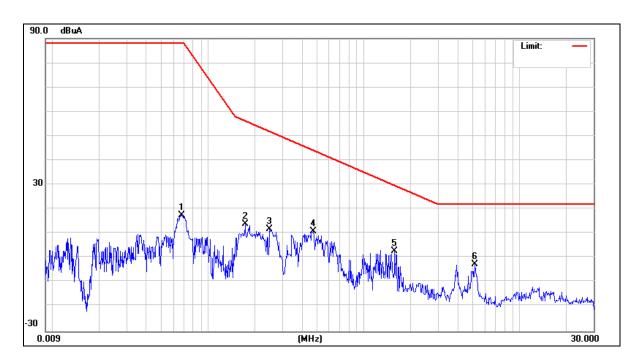
M/N: P18R Work(502188RPL0)

Op Cond.: Normal Operation / Chargeing

Comment: AC 230V/50Hz

Test Spec.: Z (2m)

Detailed results are shown below



No.	Frequency	Reading	Factor Measure-		Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.0679	7.14	10.50	17.64	88.00	-70.36	peak	
2	0.1723	3.40	10.48	13.88	56.33	-42.45	peak	
3	0.2500	1.31	10.46	11.77	51.85	-40.08	peak	
4	0.4778	0.52	10.40	10.92	44.07	-33.15	peak	
5	1.5900	-7.54	10.41	2.87	29.63	-26.76	peak	
6 *	5.1779	-12.97	10.47	-2.50	22.00	-24.50	peak	



3.5 HARMONICS CURRENT MEASUREMENT

3.5.1 LIMITS OF HARMONICS CURRENT MEASUREMENT

Table 2 - Limits for Class C equipment a

Harmonic order	Maximum permissible harmonic current expressed as a percentage of the input current at the fundamental frequency
h	%
2	2
3	30 ⋅ λ ^b
5	10
7	7
9	5
$11 \le h \le 39$ (odd harmonics only)	3

^a For some Class C products, other emission limits apply (see 7.4).

Rated Power > 25W

b λ is the circuit power factor.



Rev. 3.1

3.5.2 MEASUREMENT INSTRUMENTS LIST

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E036	Harmonic and Fliker Analyzer	EMC PARTNER	Harmonics 1000-1P 230V	0241	2021-05-23

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

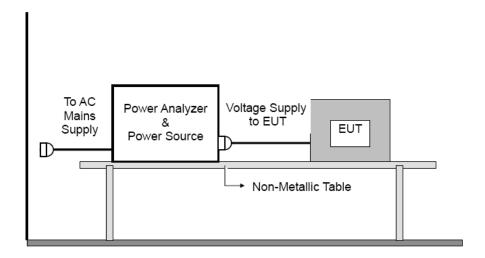
3.5.3 TEST PROCEDURE

- a. Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of EN IEC 61000-3-2 depend on which standard adopted for compliance measurement.
- b. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.
- c. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.5.4 DEVIATION FROM TEST STANDARD

No deviation

3.5.5 TEST SETUP

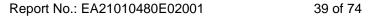


3.5.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 3.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

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3.5.7 TEST RESUL

EUT:	1	Model No.:	/
Temperature:	1	Relative Humidity:	/
Pressure:	1	Test Power:	/
Observation Time	1	Test Mode	/

Remark:

- (1) This test is not applicable for DC input products.
- (2) Lamps with input power less than 25W are not suitable for this test.
- (3) Test data see next page.





3.6 VOLTAGE FLUCTUATION AND FLICKS MEASUREMENT

3.6.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKSMEASUREMENT

Tests	Li	mits	Decementions		
	IEC555-3	IEC/EN 61000-3-2	Descriptions		
Pst	≤ 1.0, Tp= 10 min.	≤ 1.0, Tp= 10 min.	Short Term Flicker Indicator		
Plt	N/A	≤ 0.65, Tp=2 hr.	Long Term Flicker Indicator		
dc	≤ 3 %	≤ 3.3 %	Relative Steady-State V-Chang		
dmax	≤ 4 %	≤ 4 %	Maximum Relative V-change		
d (t)	N/A	≤ 3.3% for > 500 ms	Relative V-change characteristic		

3.6.2 MEASUREMENT INSTRUMENTS LIST

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E036	Harmonic and Fliker Analyzer	EMC PARTNER	Harmonics 1000-1P 230V	0241	2021-05-23

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

3.6.3 TEST PROCEDURE

a. Harmonic Current Test:

Test was performed according to the procedures specified in Clause 5.0 of IEC555-2 and/or Sub-clause 6.2 of IEC/EN 61000-3-2 depend on which standard adopted for compliance measurement.

- b. Fluctuation and Flickers Test:
 - Tests was performed according to the Test Conditions/Assessment of Voltage Fluctuations specified in Clause 5.0/6.0 of IEC555-3 and/or Clause 6.0/4.0 of IEC/EN 61000-3-3 depend on which standard adopted for compliance measurement.
- c. All types of harmonic current and/or voltage fluctuation in this report are assessed by direct measurement using flicker-meter.
- d. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.6.4 DEVIATION FROM TEST STANDARD

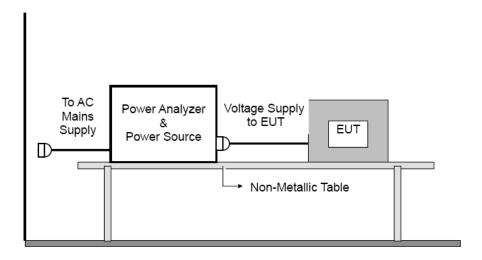
No deviation

DongGuan Anci Electronic Technology Co., Ltd.

1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan Lake Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.



3.6.5 TEST SETUP



3.6.6 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 3.1.6 Unless otherwise a special operating condition is specified in the follows during the testing.

3.6.7 TEST RESULTS

EUT:	1	Model No.:	/
Temperature:	1	Relative Humidity:	/
Pressure:	1	Test Power:	/
Observation Time	1	Test Mode	/

Remark:

- (1) This test is not applicable for DC input products.
- (2) Lamps with input power less than 600W are not applicable for this test.
- (3) Test data see next page.

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4.1 STANDARD COMPLIANCE/SERVRITY LEVEL/CRITERIA

Tests Standard No.	Test Specification	Test Mode Test Ports	Perform. Criteria	Remark
1. ESD IEC/EN 61000-4-2	8KV air discharge 4KV contact discharge	Direct Mode	В	PASS
IEG/EIN 01000-4-2	4KV HCP discharge 4KV VCP discharge	Indirect Mode	В	PASS
2. RS IEC/EN 61000-4-3	80 MHz to 1000 MHz 3V/m(rms), 1 KHz, 80%, AM modulated	Enclosure	А	PASS
3. EFT/Burst	1.0KV(peak) 5/50ns Tr/Th 5KHz Repetition Freq.	Switching LED string light Port	В	PASS
IEC/EN 61000-4-4	0.5 KV(peak) 5/50ns Tr/Th 5KHz Repetition Freq.	CTL/Signal Data Line Port	В	N/A
4. Surges IEC/EN 61000-4-5	For Self-ballast lamp and semi-luminaries: L-N: 0.5 KV L-PE, N-PE: 1 KV For luminaries and independent auxiliary: ≤ 25W: L-N: 0.5 KV L-PE, N-PE: 1 KV >25W: L-N: 1KV L-PE, N-PE: 2 KV 1.2/50(8/20) Tr/Th us	L-N	С	PASS
5 Injected Current IEC/EN 61000-4-6	0.15 MHz to 80 MHz 3V(rms), 1KHz 80%, AM Modulated 150Ω source impedance	AC Power Port DC Power Port CTL/Signal Port	А	PASS
6. Power Frequency Magnetic Field IEC/EN 61000-4-8	50 Hz, 3A/m	Enclosure	А	PASS
7. Volt. Interruptions Volt. Dips IEC/EN 61000-4-11	Voltage dip 30% Interruption 100%	70% / 0%	B/C	PASS

* Remark:

(1) "N/A": denotes test is not applicable in this Test Report.

Voltage dip: 30% reduction - Performance Criteria C (2) Voltage Interruption: 100% reduction – Performance Criteria C

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4.2 GENERAL PERFORMANCE CRITERIA

According to **EN61547:2009** standard, the general performance criteria as following:

Criterion A	During the test no change of the luminous intensity shall be observed and the regulating control, if any shall operate during the test as intended.
Criterion B	During the test the luminous intensity may change to any value. After the test the luminous intensity shall be restored to its initial value within 1 min. Regulating controls need not function during the test, but after the test the mode of the control shall be the same as before the test provided that during the test no mode changing commands were given.
Criterion C	During and after the test any change of the luminous intensity is allowed and the lamps(s) ma be extinguished. After the test, within 30 min, all function shall return to normal if necessary by temporary interruption of the mains supply and/or operating the regulating control. Additional requirement for lighting equipment incorporating a starting device.: After the test the lighting equipment is switched off. After half an hour it is switched on again. The lighting equipment shall start and operate as intended.

4.3 GENERAL PERFORMANCE CRITERIA TEST SETUP

The EUT tested system was configured as the statements of **3.1.6** Unless otherwise a special operating condition is specified in the follows during the testing.



4.4 ESD TESTING

4.4.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-2
Discharge Impedance:	330 ohm / 150 pF
Required Performance	В
Discharge Voltage:	Air Discharge: 2kV/4kV/8kV (Direct)
	Contact Discharge: 2kV/4kV (Direct/Indirect)
Polarity:	Positive & Negative
Number of Discharge:	Air Discharge: min. 10 times at each test point
	Contact Discharge: min. 200 times in total
Discharge Mode:	Single Discharge
Discharge Period:	1 second minimum

4.4.2 MEASUREMENT INSTRUMENTS

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
1	AN-E002	ESD Simulator	Prima	ESD61002B	PR13012530	2021-05-23	

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.4.3 TEST PROCEDURE

The test generator necessary to perform direct and indirect application of discharges to the EUT in the following manner:

a. Contact discharge was applied to conductive surfaces and coupling planes of the EUT. During the test, it was performed with single discharges. For the single discharge time between successive single discharges was at least 1 second. The EUT shall be exposed to at least 200 discharges, 100 each at negative and positive polarity, at a minimum of four test points. One of the test points shall be subjected to at least 50 indirect discharges to the center of the front edge of the horizontal coupling plane. The remaining three test points shall each receive at least 50 direct contact discharges.

If no direct contact test points are available, then at least 200 indirect discharges shall be applied in the indirect mode. Test shall be performed at a maximum repetition rate of one discharge per second. Vertical Coupling Plane (VCP):

The coupling plane, of dimensions 0.5m x 0.5m, is placed parallel to, and positioned at a distance 0.1m from, the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge.

Horizontal Coupling Plane (HCP):

The coupling plane is placed under to the EUT. The generator shall be positioned vertically at a distance of 0.1m from the EUT, with the Discharge Electrode touching the coupling plane.

The four faces of the EUT will be performed with electrostatic discharge.

- b. Air discharges at insulation surfaces of the EUT.
 - It was at least ten single discharges with positive and negative at the same selected point.
- c. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation

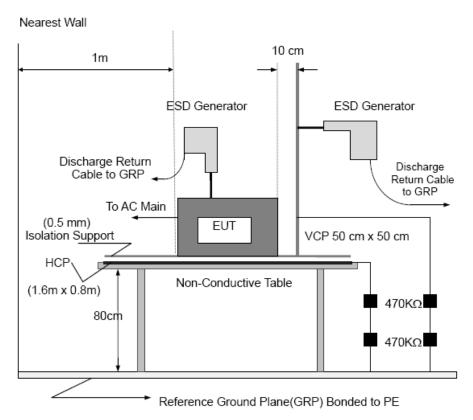
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Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table 0.8 meters high standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum at least 0.25mm thick, and 2.5 meters square connected to the protective grounding system. A Horizontal Coupling Plane (1.6m x 0.8m) was placed on the table and attached to the GRP by means of a cable with 940k total impedance. The equipment under test, was installed in a representative system as described in section 7 of IEC /EN 61000-4-2, and its cables were placed on the HCP and isolated by an insulating support of 0.5mm thickness. A distance of1-meter minimum was provided between the EUT and the walls of the laboratory and any other metallic structure.

FLOOR-STANDING EQUIPMENT

The equipment under test was installed in a representative system as described in section 7 of IEC/EN 61000-4-2, and its cables were isolated from the Ground Reference Plane by an insulating support of 0.1-meter thickness. The GRP consisted of a sheet of aluminum that is at least 0.25mm thick, and 2.5meters square connected to the protective grounding system and extended at least 0.5 meters from the EUT on all sides.



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4.4.6 TEST RESULTS

Mode	Air Discharge								Contact Discharge							
	21	(V	41	ΚV	81	ΚV	12KV		2KV		4KV		6KV		8KV	
Location	Р	N	Р	N	Р	N	Р	N	Р	N	Р	N	Р	N	Р	N
1			Α	Α	В	В										
2									Α	Α	В	В				
3	-															
4																
5																
6	-															
7																
8					-											
9	-															
Criteria		В						В					,			
Result	В							В								
Judgment		PASS						PASS								

Mode		HCP Discharge						VCP Discharge								
	21	(V	4	(V	61	(V	81	(V	21	(V	41	(V	61	(V	81	(V
Location	Р	N	Р	N	Р	N	Р	Ν	Р	N	Р	N	Р	N	Р	Ν
1	-		Α	Α					-		Α	Α				
2			Α	Α							Α	Α				
3			Α	Α	-						Α	Α	-			
4	-		Α	Α							Α	Α				
Criteria		В					<u> </u>	В				l				
Result	A								Α	1						
Judgment		PASS								PAS	SS					

Note:

- 1) P/N denotes the Positive/Negative polarity of the output voltage.
- 2) Test condition:

Direct discharges: Minimum 20 times (Positive/Negative) at each point. Air discharges / Indirect (HCP/VCP): Minimum 20 times (Positive/Negative) at each point.

- 3) Test location(s) in which discharge (Air and contact discharge) to be described as following
- 4) The Indirect (HCP/VCP) discharges description of test point as following: 1.left side 2.right side 3.front side 4.rear side
- 5) N/A denotes test is not applicable in this test report

Test Point:

No	Description	No	Description	No	Description
1	Output 7Points	4			
2	Non-metal 7Points	5			
3	DC Input 4 Points	6			

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4.5 RS TESTING

4.5.1 TEST SPECIFICATION

Report No.: EA21010480E02001

Basic Standard:	IEC/EN 61000-4-3
Required Performance	A
Frequency Range:	80 MHz - 1000 MHz
Field Strength:	3 V/m
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Polarity of Antenna:	Horizontal and Vertical
Test Distance:	3 m
Antenna Height:	1.5 m
Dwell Time:	at least 3 seconds

4.5.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Signal Generator	Aglilet	N517113-50B	MY53050160	2020-10-17
2	Amplifier	A&R	150W1000M3	313157	2020-10-17
3	Amplifier	A&R	50SIG6M2	0342835	2020-10-17
4	Log-periodic Antenna	SCHWARZBECK	STLP 9128E	9128E-012	2021-01-08
5	Microwave log-periodic antenna	SCHWARZBECK	STLP 9149	9149.222	2020-10-17
6	Isotropic Field Probe	A&R	FL700	0342652	2020-10-17
7	10 meter anechoic chamber	Albatross	10m	1	2020-06-26

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.5.3 TEST PROCEDURE

The EUT and support equipment, which are placed on a table that is 0.8 meter above ground and the testing was performed in a fully-anechoic chamber.

The testing distance from antenna to the EUT was 3 meters.

The other condition as following manner:

- a. The field strength level was 3V/m.
- b. The frequency range is swept from 80 MHz to 1000 MHz, with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d. The test was performed with the EUT exposed to both vertically and horizontally polarized fields on each of the four sides.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.5.4 DEVIATION FROM TEST STANDARD

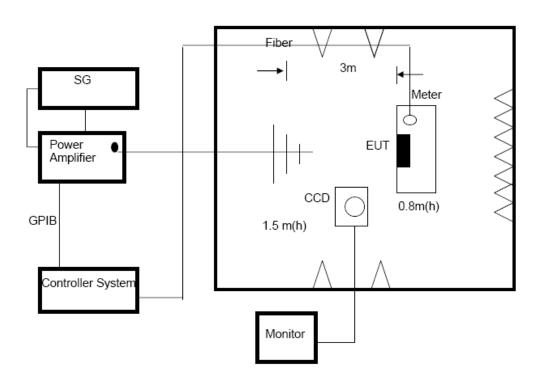
No deviation

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Note:

TABLE-TOP EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive wood support 0.1 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

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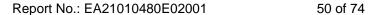


4.5.6 TEST RESULTS

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Perform. Criteria	Results	Judgment
			0			
DOMEST 4000MUT		3 V/m (rms) AM Modulated	90			D4.00
80MHZ - 1000MHZ	MHz - 1000MHz		180	A	A	PASS
			270			

Note:

- 1) N/A denotes test is not applicable in this test report.
- 2) Criteria A: There was no change operated with initial operating during the test.
- 3) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 4) Criteria C: The system shut down during the test.





4.6 EFT/BURST TESTING

4.6.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-4			
Required Performance	В			
Test Voltage:	Power Line: 1 kV			
	Signal/Control Line: 0.5 KV			
Polarity:	Positive & Negative			
Impulse Frequency:	5 kHz			
Impulse Wave shape :	5/50 ns			
Burst Duration:	15 ms			
Burst Period:	300 ms			
Test Duration:	Not less than 2 min.			

4.6.2 MEASUREMENT INSTRUMENTS

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E032	Electrical Intelligent Transient Generator	Everfine	EMS61000-4B	G114921CA1341115	2021-05-23

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.6.3 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

- a. The length of power cord between the coupling device and the EUT should not exceed 1 meter.
- b. Both positive and negative polarity discharges were applied.
- c. The duration time of each test sequential was 1 minute
- d. For the actual test configuration, please refer to the related Item –EUT Test Photos.

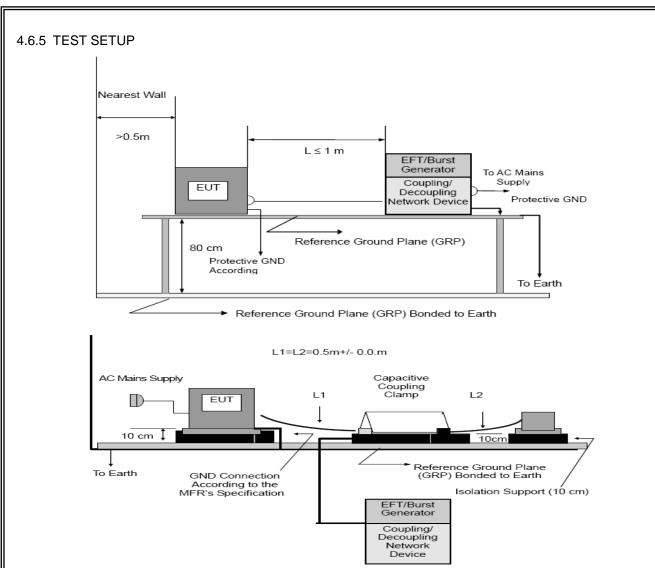
4.6.4 DEVIATION FROM TEST STANDARD

No deviation

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Note:

TABLE-TOP EQUIPMENT

The configuration consisted of a wooden table (0.8m high) standing on the Ground Reference Plane. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system. A minimum distance of 0.5m was provided between the EUT and the walls of the laboratory or any other metallic structure.

FLOOR-STANDING EQUIPMENT

The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-4 and its cables, were isolated from the Ground Reference Plane by an insulating support that is 0.1-meter thick. The GRP consisted of a sheet of aluminum (at least 0.25mm thick and 2.5m square) connected to the protective grounding system.

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4.6.6 TEST RESULTS

Mode	(X) AC Power Line		() DC Pc	ower Line	() Signal/Control Line		
Test Level	1KV		0.5	SKV	0.5KV		
Port(s)	Polarity	Results	Polarity	Results	Polarity	Results	
	Р	В	Р		Р		
Line (L)	N	В	N		N		
	Р	В	Р		Р		
Neutral (N)	N	В	N		N		
	Р		Р		Р		
Ground (PE)	N		N		N		
Signal/Control	Р		Р		Р		
Line	N		N		N		
Criteria	В		В		В		
Result	В						
Judgment	PASS		N/A		N/A		

Note:

- 1) P/N denotes the Positive/Negative polarity of the output voltage.
- 2) N/A denotes test is not applicable in this test report
- 3) Criteria A: There was no change operated with initial operating during the test.
- 4) Criteria B: The EUT function loss during the test, but self-recoverable after the test.
- 5) Criteria C: The system shut down during the test.





4.7 SURGE TESTING

4.7.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-5			
Required Performance	В			
Wave-Shape:	Combination Wave 1.2/50 us Open Circuit Voltage 8 /20 us Short Circuit Current			
Test Voltage:	Power Line: ± 0.5 KV, ± 1 KV, ± 2 KV, ± 4 KV,			
Surge Input/Output:	L-N			
Generator Source:	2 ohm between networks			
Impedance:	12 ohm between network and ground			
Polarity:	Positive/Negative			
Phase Angle:	90/270			
Pulse Repetition Rate:	1 time / min. (maximum)			
Number of Tests:	5 positive at 90 and 5 negative at 270			

4.7.2 MEASUREMENT INSTRUMENTS

Ite	m Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E001	Lightning surge generator	Prima	SUG61005CX	PR13065597	2021-05-23

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.7.3 TEST PROCEDURE

- a. For test applied to unshielded unsymmetrically operated interconnection lines of EUT:

 The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
- b. For test applied to unshielded symmetrically operated interconnection /telecommunication lines of EUT: The surge is applied to the lines via gas arrestors coupling. Test levels below the ignition point of the coupling arrestor cannot be specified. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
- c. For the actual test configuration, please refer to the related Item -EUT Test Photos.

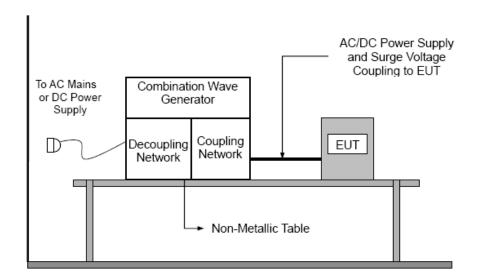


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4.7.4 DEVIATION FROM TEST STANDARD

No deviation

4.7.5 TEST SETUP



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4.7.6 TEST RESULTS

Wave Form		1.2/50						
EUT Ports Tested	Polarity	Phase		Volt	tage	,	Criteria	Judgment
EUT Ports Tested	1 Glarity		0.5kV	1kV	2kV	4kV		
	+/-	0°						
L - N	+	90°	В				В	PASS
L - IN	+/-	180°						
	-	270°	В					
	+/-	0°						
I DE	+	90°					N/A	N/A
L - PE	+/-	180°					N/A	
	-	270°						
	+/-	0°					N/A	N/A
N. DE	+	90°						
N - PE	+/-	180°						
	-	270°						
	+/-	0°						
Signal Line	+/-	90°					N/A	N/A
(N/A)	+/-	180°					14/1	14/7
	+/-	270°						
	+/-	0°						
Signal Line	+/-	90°					N/A	N/A
(N/A)	+/-	180°					14/7	N/A
	+/-	270°						

Note:

- 1) P/N denotes the Positive/Negative polarity of the output voltage.
- 2) Polarity and Numbers of Impulses: 5 Pst / Ngt at each tested mode
- 3) N/A denotes test is not applicable in this Test Report
- 4) All voltages of the lower levels shall be satisfied





4.8 INJECTION CURRENT TESTING

4.8.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-6
Required Performance	A
Frequency Range:	0.15 MHz - 80 MHz
Field Strength:	3 Vr.m.s.
Modulation:	1kHz Sine Wave, 80%, AM Modulation
Frequency Step:	1 % of fundamental
Dwell Time:	at least 3 seconds

4.8.2 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
	CONDUCTED					
1	IMMUNITY TEST	FRANKONIA	CIT-10	102D1253	2020-10-17	
	SYSTEM					
2	CDN	FRANKONIA	CDN M2+M3	A3011059	2020-10-17	
3	Electromagnetic clamp	FRANKONIA	KEMZ-801	21044	2020-10-17	

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.8.3 TEST PROCEDURE

The EUT and support equipment, are placed on a table that is 0.8 meter above a metal ground plane measured 1m*1m min. and 0.65mm thick min.

The other condition as following manner:

- a. The field strength level was 3V.
- b. The frequency range is swept from 150 KHz to 80 MHz, with the signal 80%amplitude modulated with a 1kHz sine wave. The rate of sweep did not exceed 1.5x 10-3 decade/s. Where the frequency range is swept incrementally, the step size was 1% of fundamental.
- c. The dwell time at each frequency shall be not less than the time necessary for the EUT to be able to respond.
- d. For the actual test configuration, please refer to the related Item -EUT Test Photos.

4.8.4 DEVIATION FROM TEST STANDARD

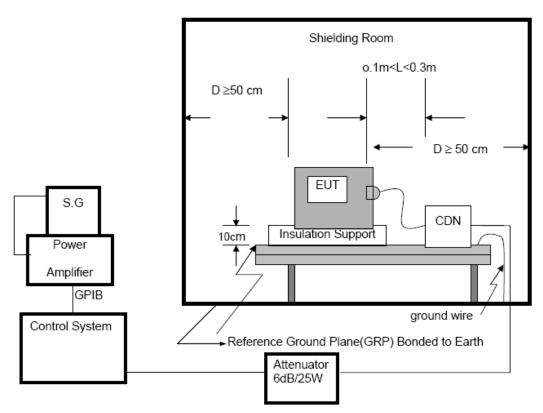
No deviation

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For the actual test configuration, please refer to the related Item –EUT Test Photos.

NOTE:

FLOOR-STANDING EQUIPMENT

The equipment to be tested is placed on an insulating support of 0.1 meters height above a ground reference plane. All relevant cables shall be provided with the appropriate coupling and decoupling devices at a distance between 0.1 meters and 0.3 meters from the projected geometry of the EUT on the ground reference plane.





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4.8.6 TEST RESULTS

Report No.: EA21010480E02001

Test Ports (Mode)	Freq. Range MHz)	Field Strength	Perform. Criteria	Results	Judgment	
Input/ Output AC. Power Port	0.1580		Α	Α	PASS	
Input/ Output DC. Power Port	0.15 80	3V(rms) AM Modulated 1000Hz, 80%	AM Modulated	Α		N/A
Signal Line (N/A)	0.15 80		А		N/A	

Note

1) N/A - denotes test is not applicable in this Test Report.





4.9 VOLTAGE INTERRUPTION/DIPS TESTING

4.9.1 TEST SPECIFICATION

Basic Standard:	IEC/EN 61000-4-11		
Required Performance:	C (For 30% Voltage Dips)		
	B (For 100% Voltage Interruptions)		
Test Duration Time:	Minimum three test events in sequence		
Interval between Event:	Minimum ten seconds		
Phase Angle:	0°-360°		
Test Cycle: 3 times			

4.9.2 MEASUREMENT INSTRUMENTS

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E031	Voltage Dips And Interruptions Generator	Everfine	EMS61000-11K	G113317CA8341117	2021-05-23

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.9.3 TEST PROCEDURE

The EUT shall be tested for each selected combination of test levels and duration with a sequence of three dips/interruptions with intervals of 10 s minimum (between each test event). Each representative mode of operation shall be tested. Abrupt changes in supply voltage shall occur at zero crossings of the voltage waveform.

4.9.4 DEVIATION FROM TEST STANDARD

No deviation

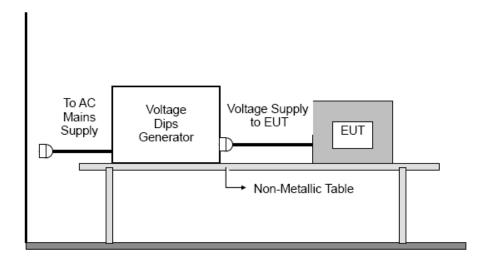
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4.9.5 TEST SETUP



For the actual test configuration, please refer to the related Item –EUT Test Photos.

4.9.6 TEST RESULTS

Test Power: 120Vac, 60Hz

Voltage Reduction	Periods	Perform Results		Judgment
Voltage dip 30%	10	С	В	PASS
Interruption100%	0.5	В	В	PASS

Test Power: 230Vac, 50Hz

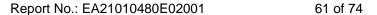
Voltage Reduction	Periods	Perform Criteria	Results	Judgment
Voltage dip 30%	10	С	В	PASS
Interruption100%	0.5	В	В	PASS

Note:

1). N/A - denotes test is not applicable in this test report.

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4.10 POWER-FREQUENCY MAGNETIC FILDS

4.10.1 MEASUREMENT INSTRUMENTS

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Magnetic Field Tester	EMC-PARTNER	MF1000-1	121	2020-10-17

Remark: "N/A" denotes No Model No. / Serial No. and No Calibration specified.

4.10.2 TEST LEVEL AND PERFORMANCE CRITERION

Level	Magnetic Field Strength A/m	Performance criterion	
2	3	Α	

4.10.3 TEST PROCEDURE

The EUT shall be subjected to the test magnetic field by using the induction coil of standard dimensions (1m*1m) and shown in Section 13.3 The induction coil shall then be rotated by 90 ein order to expose the EUT to the test field with different orientations.

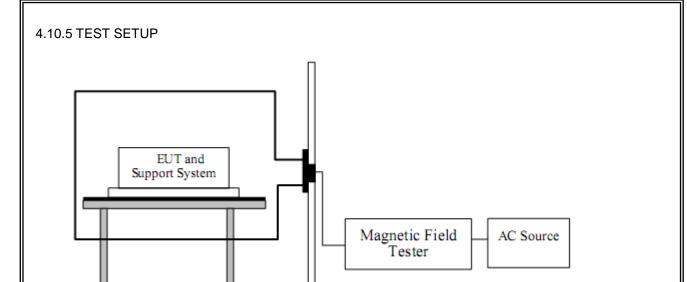
4.10.4 DEVIATION FROM TEST STANDARD

No deviation

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4.10.6 TEST RESULTS

Operation Mode	Test Level	Testing Duration	Coil Orientation	Required	Observation	Result (Pass/Fail)
	3A/m	5 min /	x	A	Α	Pass
Normal operation	3A/m	5 min /	Y	A	Α	Pass
	3A/m	5 min /	z	А	Α	Pass

Note:

Operation as intend, no loss of function during test and after test

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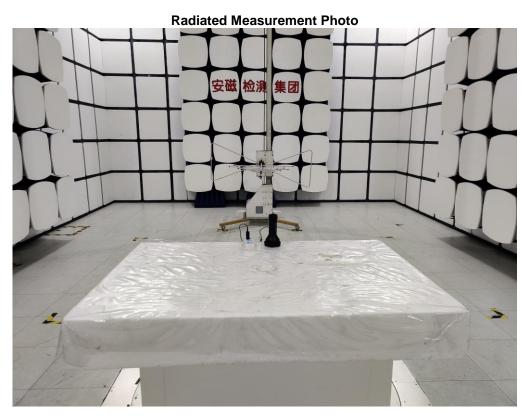
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5. ATTACHMENT 5.1 EUT Test Photo

Conducted Measurement Photo

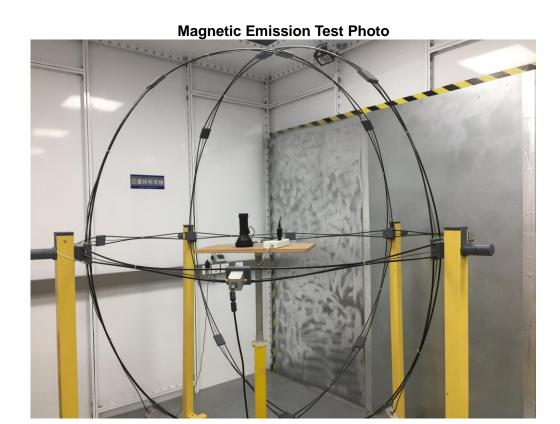


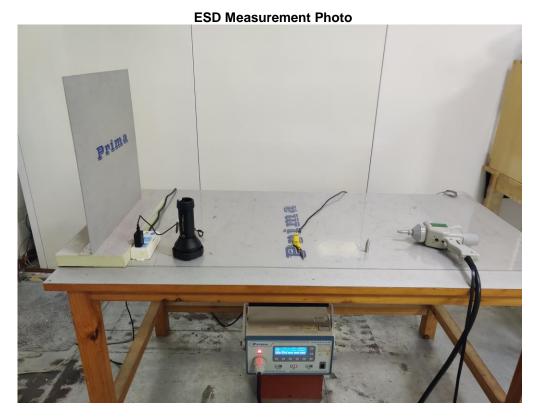


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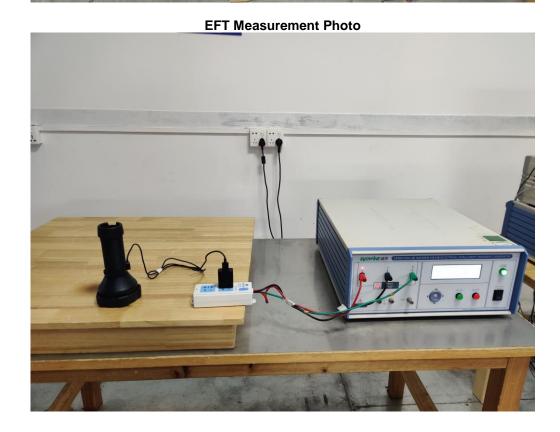
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5.2 EUT Photo



Figure 1. Overall view of unit



Figure 2. Overall view of unit

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Figure 3. Overall view of unit



Figure 4. Internal view of unit

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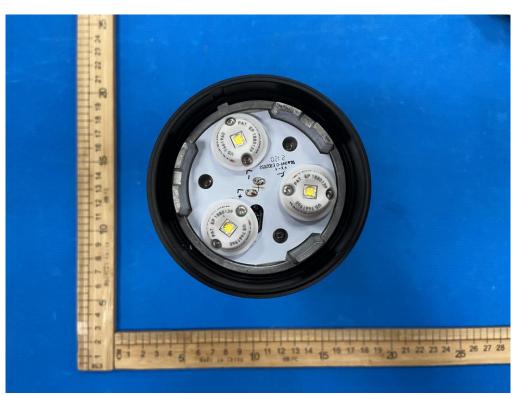


Figure 5. Internal view of unit



Figure 6. LED view of unit



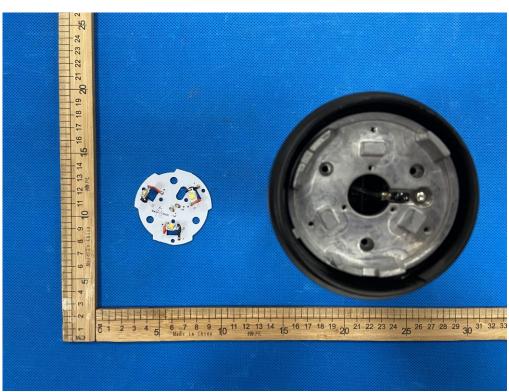


Figure 7. LED view of unit

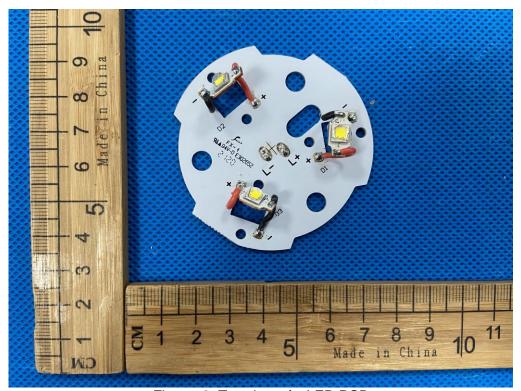


Figure 8. Top view of LED PCB

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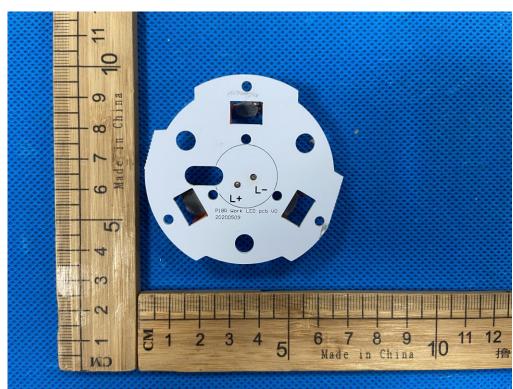
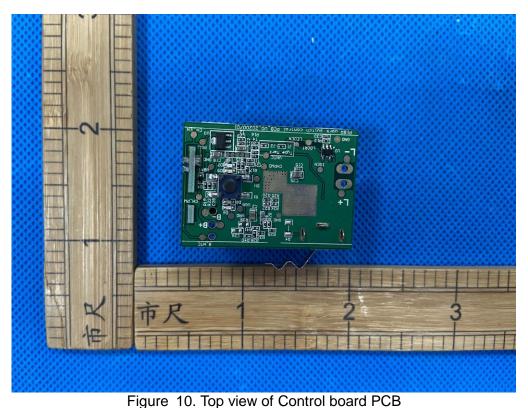


Figure 9. Bottom view of LED PCB





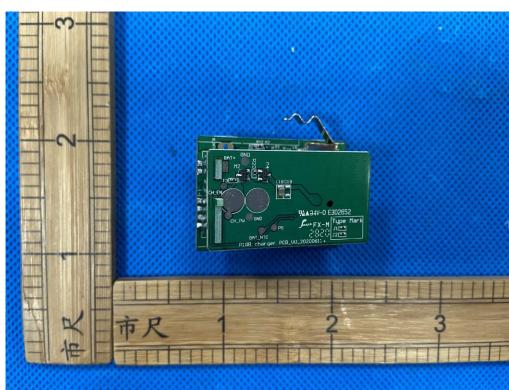


Figure 11. Bottom view of Control board PCB



Figure 12. Battery view of unit





Figure 13. Overall view of LED Driver



Figure 14. Overall view of DC Cable

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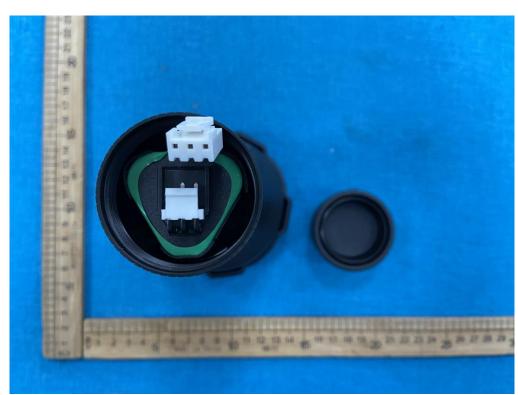


Figure 15. Internal view of unit

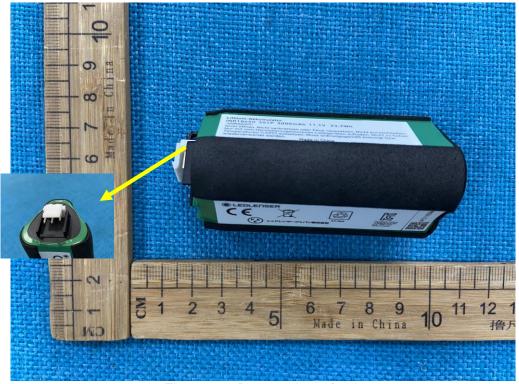


Figure 16. Battery view of unit

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