

Dongguan Anci Electronic Technology Co., Ltd.

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Hi-tech Industrial Development Zone, Dongguan City, Guangdong Pr., China.
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CERTIFICATE OF CONFORMITY

Certificate No.: 20AE05079E 001

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

Report No.

EA2005079E 01001

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:

1x21700 1x XHP35HI H7R Core Headlamp

Model No.

.

502122RHL0 (H7R Core)

Input Rating

.

Charger: DC 5V

Discharger: Battery 3.7V 4800mAh

Test Standards

EN IEC 55015:2019

EN 61547:2009

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.

Test Laboratory

 ϵ

Director

Alan He

Date of Issue: May. 28, 2020

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.



EMC TEST REPORT



For Electromagnetic Interference of

Report Reference No.....: EA2005079E 01001

Engineer (name + signature): Wite Chen

Reviewed by (name + signature): Tiger Xu

Approved by (name + signature): Alan He

Date of Receipt of EUT.....: May. 18, 2020

Date of Test...... May. 18, 2020 to May. 28, 2020

Date of issue: May. 28, 2020

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

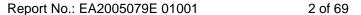
Manufacturer.....: Ledlenser Corporation Ltd.

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

Yangjiang City, GD, 529931, China

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

Yangjiang City, GD, 529931, China



ANCI

Test specification:

EUT description 1x21700 1x XHP35HI H7R Core Headlamp

Trade Mark.....:

• LEDLENSER

Model/Type reference 502122RHL0 (H7R Core)

Test Sample...... 502122RHL0 (H7R Core)

Input Ratings...... Charger: DC 5V

Discharger: Battery 3.7V 4800mAh

Standards..... EN IEC 55015:2019

EN 61547:2009

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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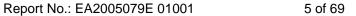
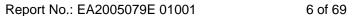




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1. GENERAL INFORMATION

1.1 PRODUCT INFORMATION

- 1. The equipment is 1x21700 1x XHP35HI H7R Core Headlamp 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.

All tests was performed on model 502122RHL0 (H7R Core).

The EUT passed the test.

1.2 Details about the Test Laboratory

Test Site 1 (CNAS number L6214):

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: +86-769-8507 5888

Fax: +86-769- 8507 5898

Test Site 2 (Subcontract test: CNAS number L0468):

Company name: Guangdong Dongguan Quality Supervision Testing Center

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

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

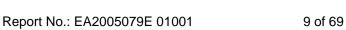
Telephone: +86 769 2307 1111

Fax: +86 769 2307 7221



Standard	Test Item	Test Site
	Conducted Disturbance at Mains Terminals	N/A
EN IEC 55015:2019	Conducted Disturbance at Control Terminals	N/A
	Radiated Disturbance	1
	(30MHz to 1GHz)	-
	Magnetic Disturbance	1
	(9KHz to 30MHz)	ı
EN IEC 61000-3-2:2019	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	N/A
EN 61000-4-5:2014	Surges	N/A
EN 61000-4-6:2014	Injected Current	N/A
EN 61000-4-8:2010	Power Frequency Magnetic Field	2
EN 61000-4-11:2004	Volt. Interruptions Volt. Dips	N/A

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2. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

Emission					
Standard	Test Item	Limits	Judgment	Remark	
	Conducted Disturbance at Mains Terminals	standard 9.3.2	N/A		
EN IEC 55045:2040	Conducted Disturbance at Control Terminals	standard 9.3.2	N/A		
EN IEC 55015:2019	Radiated Disturbance (30MHz to 1GHz)	standard 9.3.3	PASS		
	Magnetic Disturbance (9KHz to 30MHz)	standard 9.3.4	PASS		
EN IEC 61000-3-2:2019	Harmonic Current Emission	CLASS C	N/A		
EN 61000-3-3:2013+A1:2019	Voltage Fluctuations & Flicker	Issue 6	N/A		
	Immunity (EN61547:2009)				
Section	Test Item	Performance Criteria	Judgment	Remark	
EN 61000-4-2:2009	Electrostatic Discharge	В	PASS		
EN 61000-4-3:2006 +A1:2008+A1:2010	RF electromagnetic field	А	PASS		
EN 61000-4-4:2012	Fast transients	В	N/A		
EN 61000-4-5:2014	Surges	В	N/A		
EN 61000-4-6:2014	Injected Current	А	N/A		
EN 61000-4-8:2010	Power Frequency Magnetic Field	А	PASS		
EN 61000-4-11:2004	Volt. Interruptions Volt. Dips	C/B	N/A		

NOTE:

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



2.1 MEASUREMENT UNCERTAINTY

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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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2.3 BLOCK D	IGRAM SHO	WING THE CONFIGURA	TION OF SYSTEM TESTED	ı
		EUT		
	e following sup		with other necessary accessoriere used to form a representative	
	Item N/A	Equipment N/A	Specification N/A]

Item	Type of cable
N/A	N/A

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Phone: 86-769-8507 5888; Fax: 86-769-8507 5898 E-mail: anci@anci.com Rev. 2.1



3. EMISSION TEST

3.1 Conducted Disturbance at Mains Terminals

Report No.: EA2005079E 01001

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	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

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	2021-05-19
2	AN-E028	10 db attenuator	JFW	50FP-010-H4	4360846-427-1	2021-05-19
3	AN-E022	RF Cable	N/A	ZT06S-BNCJ-NJ- 7.5M	19044020	2021-05-19
4	AN-E020	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2021-05-19
5	AN-E058	1# Shielded Room	chengyu	8m*4m*3.3m	N/A	2021205-06
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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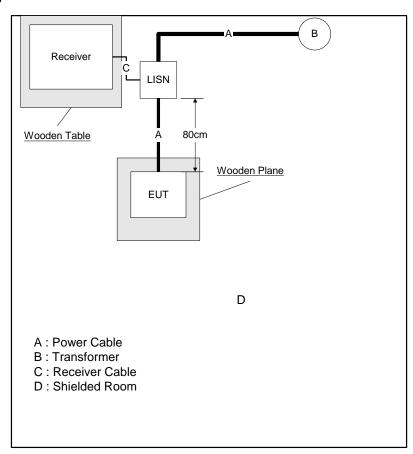
3.1.3 TEST PROCEDURE

- 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.: EA2005079E 01001

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

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 <code>『Note』</code>. 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.



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Product is DC powered, this test is not applicable
Froduct is DC powered, this test is not applicable



3.2 Conducted Disturbance at Control Terminals

3.2.1 Specification Limits

Disturbance voltage limits at the Control terminals			
Fragues av 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.04,2020
Test Receiver	Rohde & Schwarz	ESR3	102520	May.07,2021

3.2.3 TEST PROCEDURE

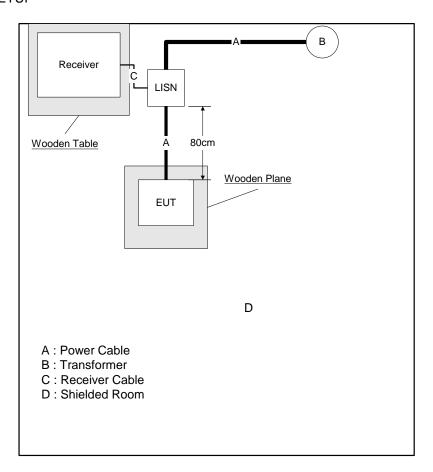
- A. The EUT was placed on a non-conductive table 0.8 m above a reference ground plane.
- B. The EUT was placed on a non-conductive support 0.1 m above a reference ground plane.
- C. All power was connected to the EUT through an Artificial Mains Network (AMN).
- D. Conducted common mode disturbance voltage 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:	1	Model No.:	1
Temperature:	1	Relative Humidity:	/
Pressure:	1	Test Power:	/
Test Mode:		/	

Noto:

- 1. This test is arranged according to the placement requirements of 3.2.4.
- 2. Test data see next page

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Product is DC powered, this test is not applicable



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3.3 Radiated Disturbance (30MHz to 1000MHz)

Report No.: EA2005079E 01001

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.Co de	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E060	EMI Test Receiver	Rohde & Schwarz	ESCI	100302	2020-06-13
2	AN-E061	Pre-Amplifier	Anritsu	MH648A	M57886	2020-06-13
3	AN-E076	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-129 0	2020-11-15
4	AN-E063	RF Cable	N/A	ZT06S-NJ-NJ-11M	19060398	2020-06-13
5	AN-E064	RF Cable	N/A	ZT06S-NJ-NJ-0.5M	19060400	2020-06-13
6	AN-E065	RF Cable	N/A	ZT06S-NJ-NJ-2.5M	19060404	2020-06-13
7	AN-E056	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2022-05-19
8	AN-E069	Test Software	Farad	EZ-EMC Ver:ANCI-2A1	N/A	N/A

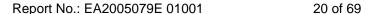
3m Radiated Emission Measurement 1GHz-18GHz

Item	Instr.Co de	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	2021-05-19
3	AN-E014	Horn antenna	A-INFO	LB-10180-SF	J2031090612123	2021-05-17
4	AN-E065	RF Cable	N/A	ZT26-NJ-NJ-11M	19060401	2020-06-13
5	AN-E067	RF Cable	N/A	ZT26-NJ-NJ-2.5M	19060402	2020-06-13
6	AN-E068	RF Cable	N/A	ZT26-NJ-NJ-0.5M	19060403	2020-06-13
7	AN-E056	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2022-05-19
8	AN-E069	Test Software	Farad	EZ-EMC Ver:ANCI-2A1	N/A	N/A

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

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.





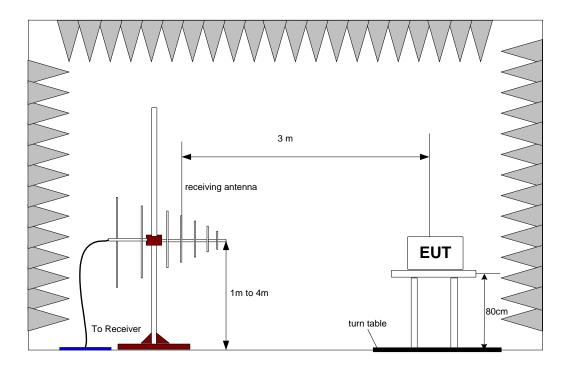
3.3.3 TEST PROCEDURE

- 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.

No deviation

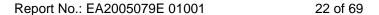


3.3.5 TEST SETUP



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.



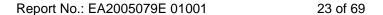


3.3.7 TEST RESULTS

EUT:	1x21700 1x XHP35HI H7R Core Headlamp	Model No.:	502122RHL0 (H7R Core)
Temperature:	23℃	Relative Humidity:	57%
Pressure:	1008 hPa	Test Power:	DC 5V and Battery 3.7V
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.



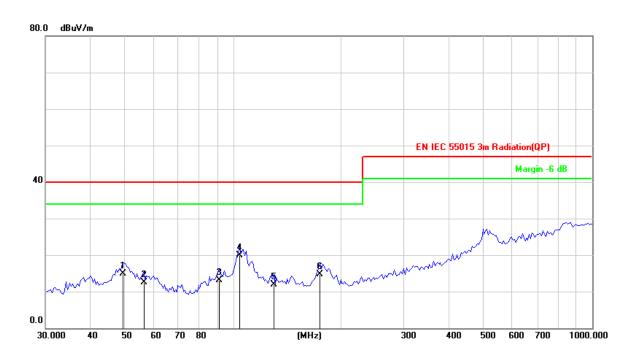


M/N: 502122RHL0 (H7R Core)

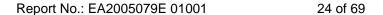
Op Cond.: Normal Operation

Comment: DC 5V
Test Spec: Horizontal
Note: Charging

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	49.4460	28.01	-13.18	14.83	40.00	-25.17	QP			
2	56.3948	26.19	-13.75	12.44	40.00	-27.56	QP			
3	91.3346	27.16	-14.02	13.14	40.00	-26.86	QP			
4 *	104.1701	32.75	-12.75	20.00	40.00	-20.00	QP			
5	129.6950	26.44	-14.56	11.88	40.00	-28.12	QP			
6	174.7301	29.59	-14.97	14.62	40.00	-25.38	QP			





M/N: 502122RHL0 (H7R Core)

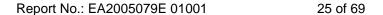
Op Cond.: Normal Operation

Comment: DC 5V
Test Spec: Vertical
Note: Charging

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*	41.1319	45.70	-13.19	32.51	40.00	-7.49	QP			
2	50.7637	43.88	-13.27	30.61	40.00	-9.39	QP			
3	59.9639	34.30	-13.74	20.56	40.00	-19.44	QP			
4	106.0126	30.20	-12.88	17.32	40.00	-22.68	QP			
5	137.9028	35.36	-15.13	20.23	40.00	-19.77	QP			
6	179.3863	31.75	-14.77	16.98	40.00	-23.02	QP			



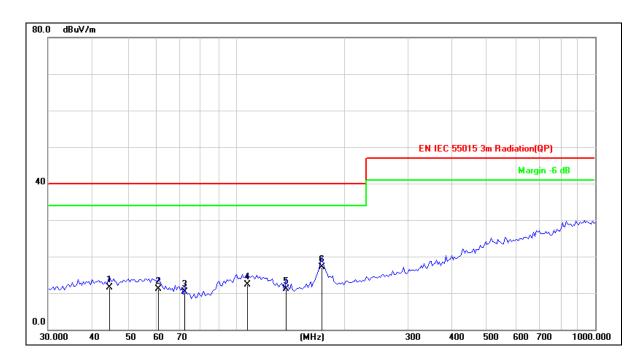


M/N: 502122RHL0 (H7R Core)

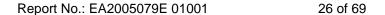
Op Cond.: Normal Operation

Comment: Battery 3.7V
Test Spec: Horizontal
Note: DisCharging

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	44.5087	24.72	-13.19	11.53	40.00	-28.47	QP			
2	61.0245	25.19	-14.11	11.08	40.00	-28.92	QP			
3	72.0843	26.99	-16.62	10.37	40.00	-29.63	QP			
4	107.8877	25.36	-13.01	12.35	40.00	-27.65	QP			
5	137.9028	26.18	-15.13	11.05	40.00	-28.95	QP			
6*	173.2051	32.18	-15.02	17.16	40.00	-22.84	QP			





M/N: 502122RHL0 (H7R Core)

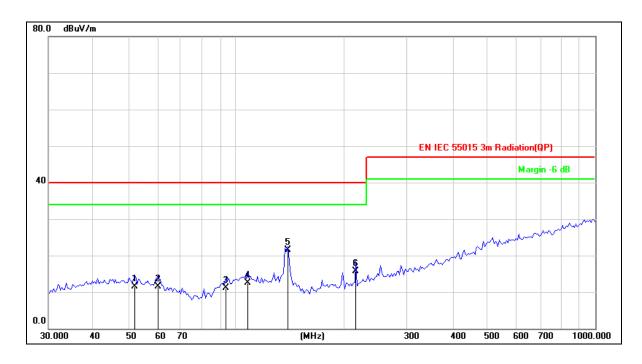
Op Cond.: Normal Operation

Comment: Battery 3.7V

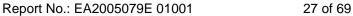
Test Spec: Vertical

Note: DisCharging

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	52.1164	25.02	-13.42	11.60	40.00	-28.40	QP			
2	60.4919	25.32	-13.91	11.41	40.00	-28.59	QP			
3	93.7685	24.72	-13.53	11.19	40.00	-28.81	QP			
4	107.8877	25.42	-13.01	12.41	40.00	-27.59	QP			
5 *	139.1172	36.66	-15.21	21.45	40.00	-18.55	QP	·		
6	215.6456	28.82	-13.17	15.65	40.00	-24.35	QP			





3.4 MAGNETIC EMISSION MEASUREMENT

3.4.1 MEASUREMENT INSTRUMENTS LIST

Item	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	AN-E013	Loop Antenna	Da Ze	ZN30401	2944A09491	2021-05-19
3	AN-E026	RF Cable	N/A	ZT06S-NJ-NJ-3M	19044021	2021-05-19
4	AN-E020	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2021-05-19
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.

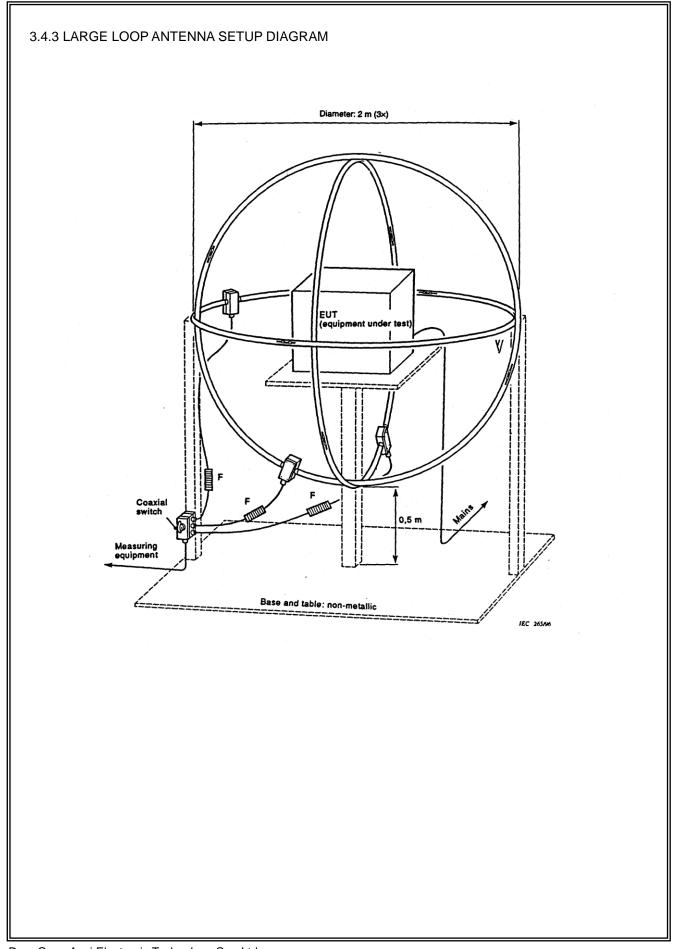
3.4.2 LIMITS OF MAGNETIC EMISSION MEASUREMENT

Francisco Paras	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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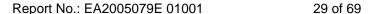


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3.4.4 OPERATING CONDITIONS OF THE EUT

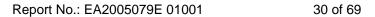
The exercise program used during conducted emission measurement was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below:

- 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.





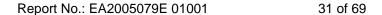
3.4.6 TEST RESULTS

EUT:	1x21700 1x XHP35HI H7R Core Headlamp	Model No.:	502122RHL0 (H7R Core)
Temperature:	23℃	Relative Humidity:	57%
Pressure:	1008 hPa	Test Power:	DC 5V and Battery 3.7V
Test Mode:	Normal Operation		

Remarks:

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

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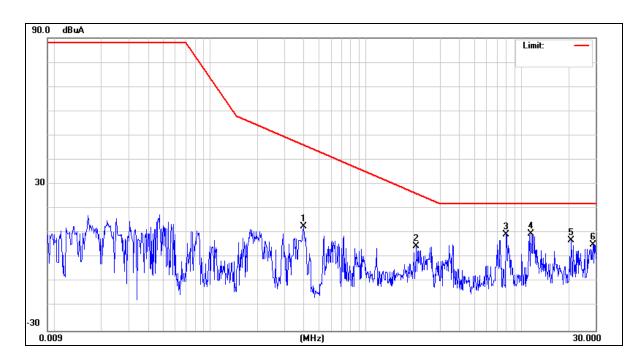


M/N: 502122RHL0 (H7R Core)

Op Cond.: **Normal Operation**

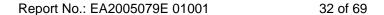
DC 5V Comment: Test Spec.: X (2m) Note: Charging

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.3980	2.20	10.42	12.62	46.19	-33.57	peak	
2	2.1259	-5.66	10.37	4.71	26.12	-21.41	peak	
3	7.9420	-1.15	10.46	9.31	22.00	-12.69	peak	
4 *	11.5777	-0.78	10.45	9.67	22.00	-12.33	peak	
5	20.9340	-3.25	10.41	7.16	22.00	-14.84	peak	
6	29.0015	-5.12	10.38	5.26	22.00	-16.74	peak	

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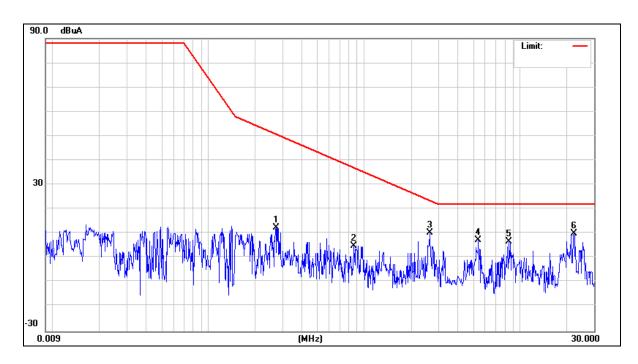


M/N: 502122RHL0 (H7R Core)

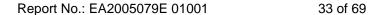
Op Cond.: Normal Operation

Comment: DC 5V
Test Spec.: Y (2m)
Note: Charging

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.2714	1.87	10.45	12.32	50.77	-38.45	peak	
2	0.8618	-5.47	10.46	4.99	36.94	-31.95	peak	
3	2.6419	0.06	10.39	10.45	23.52	-13.07	peak	
4	5.4580	-3.15	10.47	7.32	22.00	-14.68	peak	
5	8.5980	-3.83	10.46	6.63	22.00	-15.37	peak	
6 *	22.2220	-0.47	10.40	9.93	22.00	-12.07	peak	



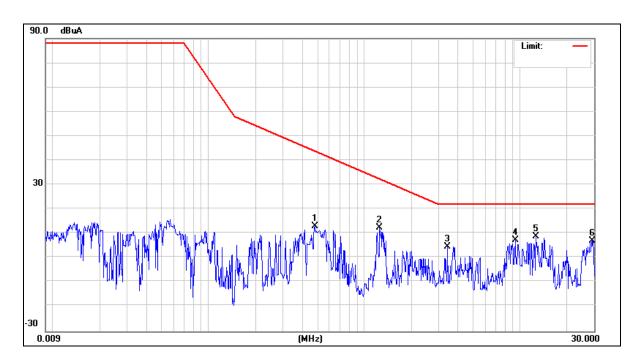


M/N: 502122RHL0 (H7R Core)

Op Cond.: **Normal Operation**

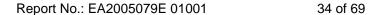
DC 5V Comment: Test Spec.: Z (2m) Note: Charging

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.4858	2.56	10.39	12.95	43.80	-30.85	peak	
2	1.2579	2.06	10.45	12.51	32.41	-19.90	peak	
3	3.4500	-5.80	10.42	4.62	22.00	-17.38	peak	
4	9.3498	-3.21	10.46	7.25	22.00	-14.75	peak	
5 *	12.7736	-1.53	10.45	8.92	22.00	-13.08	peak	
6	29.2420	-3.38	10.38	7.00	22.00	-15.00	peak	

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M/N: 502122RHL0 (H7R Core)

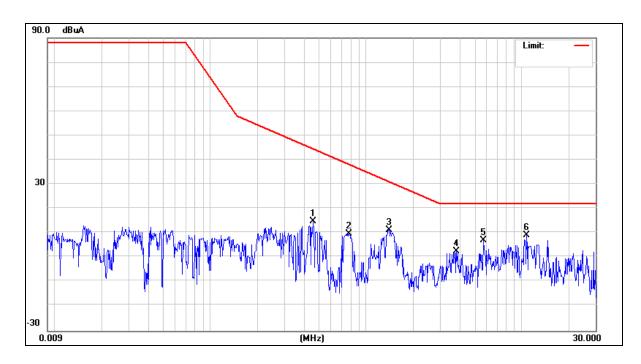
Op Cond.: Normal Operation

Comment: Battery 3.7V

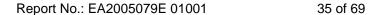
Test Spec.: X (2m)

Note: DisCharging

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.4580	4.34	10.40	14.74	44.58	-29.84	peak	
2	0.7820	-0.74	10.44	9.70	38.15	-28.45	peak	
3	1.4092	0.90	10.43	11.33	31.08	-19.75	peak	
4	3.8380	-7.90	10.43	2.53	22.00	-19.47	peak	
5	5.7140	-3.28	10.47	7.19	22.00	-14.81	peak	
6 *	10.8580	-1.17	10.46	9.29	22.00	-12.71	peak	





M/N: 502122RHL0 (H7R Core)

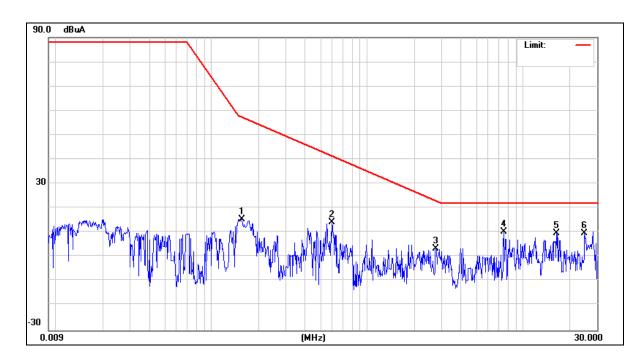
Op Cond.: Normal Operation

Comment: Battery 3.7V

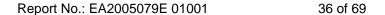
Test Spec.: Y (2m)

Note: DisCharging

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.1580	4.36	11.08	15.44	57.37	-41.93	peak	
2	0.5977	3.91	10.31	14.22	41.38	-27.16	peak	
3	2.7780	-5.12	8.44	3.32	22.92	-19.60	peak	
4 *	7.6100	7.39	2.99	10.38	22.00	-11.62	peak	
5	16.5213	10.56	-0.90	9.66	22.00	-12.34	peak	
6	24.9340	14.92	-5.18	9.74	22.00	-12.26	peak	





M/N: 502122RHL0 (H7R Core)

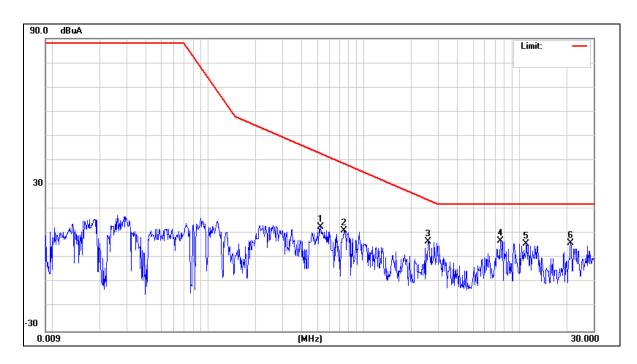
Op Cond.: Normal Operation

Comment: Battery 3.7V

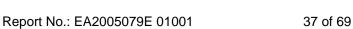
Test Spec.: Z (2m)

Note: DisCharging

Detailed results are shown below



No.	Frequency	Reading	Factor	Measure-	Limit	Over	Detector	Comment
	(MHz)	Level(dBuA)	(dB)	ment(dBuA)	(dBuA)	(dB)		
1	0.5299	2.28	10.37	12.65	42.83	-30.18	peak	
2	0.7459	0.75	10.40	11.15	38.72	-27.57	peak	
3	2.5899	-2.15	8.76	6.61	23.77	-17.16	peak	
4 *	7.5659	3.88	3.03	6.91	22.00	-15.09	peak	
5	11.1180	4.62	1.38	6.00	22.00	-16.00	peak	
6	21.4020	9.65	-3.60	6.05	22.00	-15.95	peak	





3.5 HARMONICS CURRENT MEASUREMENT

3.5.1 LIMITS OF HARMONICS CURRENT MEASUREMENT

Table 1 – Limits for Class A equipment

Harmonic order	Maximum permissible harmonic current
n	A
Odd har	monics
3	2,30
5	1,14
7	0,77
9	0,40
11	0,33
13	0,21
15 ≤ n ≤ 39	0,15 <u>15</u>
Even har	monics
2	1,08
4	0,43
6	0,30
8 ≤ n ≤ 40	0,23 <u>8</u>

Table 2 - Limits for Class C equipment

Harmonic order	Maximum permissible harmonic currrent expressed as a percentage of the input current at the fundamental frequency
n	%
2	2
3	30 ⋅ λ *
5	10
7	7
9	5
11 ≤ n ≤ 39	3
(odd harmonics only)	
* λ is the circuit power factor	·

Table 3 - Limits for Class D equipment

Harmonic order	Maximum permissible harmonic current per watt	Maximum permissible harmonic current
n	mA/W	A
3	3,4	2,30
5	1,9	1,14
7	1,0	0,77
9	0,5	0,40
11	0,35	0,33
13 ≤ n ≤ 39 (odd harmonics only)	3,85 n	See Table 1

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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	2021-05-19

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

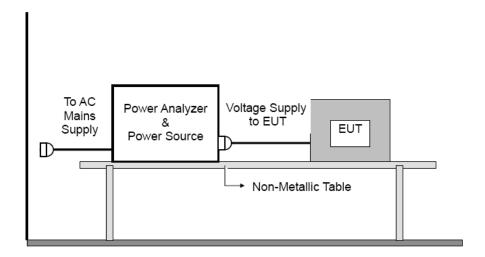
3.5.3 TEST PROCEDURE

- 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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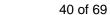
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3.5.7 TEST RESUL

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

Remark: The test data see next page.



Report No.: EA2005079E 01001



Harmonic Emission - IEC 61000-3-2 , EN 61000-3-2 , (EN60555-2),EN IEC 61000-3-2
Product is DC powered, this test is not applicable

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ANCI

3.6 VOLTAGE FLUCTUATION AND FLICKS MEASUREMENT

Report No.: EA2005079E 01001

3.6.1 LIMITS OF VOLTAGE FLUCTUATION AND FLICKSMEASUREMENT

Tooto	Li	mits	Descriptions	
Tests	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	2021-05-19

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

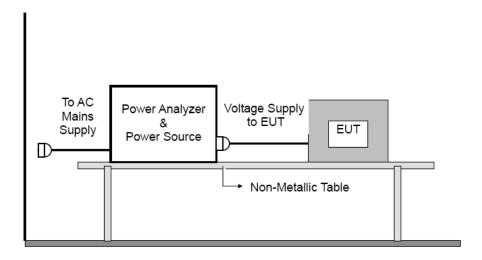
No deviation

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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.

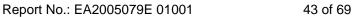
3.6.7 TEST RESULTS

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

Remark: The test data see next page.

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Flicker Emission - IEC 61000-3-3 , EN 61000-3-3, EN 61000-3-3+A1
Product is DC powered, this test is not applicable
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E-mail: anci@anci.com Rev. 2.1



4. EMC IMMUNITY TEST

4.1 STANDARD COMPLIANCE/SERVRITY LEVEL/CRITERIA

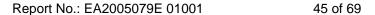
Tests Standard No.	Test Specification	Test Mode Test Ports	Perform. Criteria	Remark
1. ESD IEC/EN 61000-4-2	8KV air discharge 4KV contact discharge	Direct Mode	В	PASS
IEG/EIN 01000-4-2	4KV HCP discharge 4KV VCP discharge	Indirect Mode	В	PASS
2. RS IEC/EN 61000-4-3	80 MHz to 1000 MHz 3V/m(rms), 1 KHz, 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	N/A
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,L-PE,N-PE	С	N/A
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	N/A
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	N/A

* Remark:

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

(2) Voltage dip: 30% reduction – Performance Criteria **C**

Voltage Interruption: 100% reduction – Performance Criteria ${\bf C}$





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.



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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	2021-05-19	

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

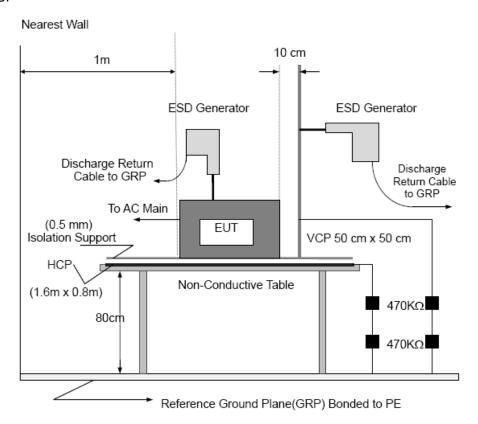
No deviation

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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

Report No.: EA2005079E 01001

Mode			Α	ir Di	schai	ge			Contact Discharge							
	21	(V	41	(V	81	ΚV	12	K۷	21	(V	41	(V	6k	(V	81	(V
Location	Р	N	Р	N	Р	N	Р	N	Р	N	Р	N	Р	N	Р	N
1			Α	Α	Α	Α										
2									Α	Α	Α	Α				
3	-															
4																
5																
6	-															
7																
8					-											
9	-															
Criteria		В							В							
Result	Α						A									
Judgment		PASS PASS														

Mode		HCP Discharge								VCP Discharge						
	21	2KV 4KV		6ł	6KV 8KV		24	(V	41	(V	61	(V	81	(V		
Location	Р	N	Р	N	Р	N	Р	Ν	Р	N	Р	N	Р	N	Р	N
1	-		Α	Α					-		Α	Α				
2			Α	Α							Α	Α				
3			Α	Α	-						Α	Α	-			
4	-		Α	Α							Α	Α				
Criteria				В	3				В							
Result	Α							A								
Judgment				PA:	SS				PASS							

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 4Points	4			
2	Non-metal 3 Points	5			
3		6			

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4.5 RS TESTING

4.5.1 TEST SPECIFICATION

Report No.: EA2005079E 01001

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	ld 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

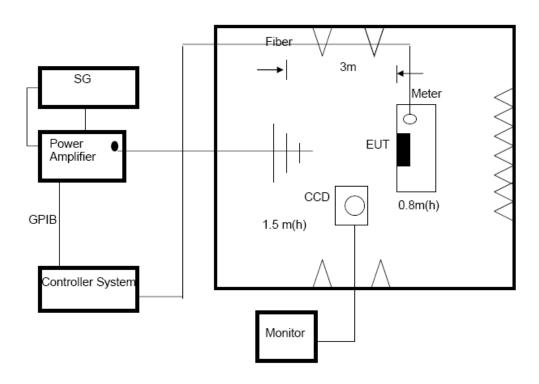
No deviation

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Note:

TABLE-TOP EQUIPMENT

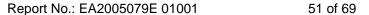
The EUT installed in a representative system as described in section 7 of IEC/EN 61000-4-3 was placed on a non-conductive table 0.8 meters in height. The system under test was connected to the power and signal wire according to relevant installation instructions.

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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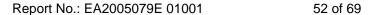
Rev. 2.1

4.5.6 TEST RESULTS

Frequency Range (MHz)	RF Field Position	R.F. Field Strength	Azimuth	Perform. Criteria	Results	Judgment
			0		A	PASS
000411- 40000411-	H/V	3 V/m (rms) AM Modulated 1000Hz, 80%	90			
80MHz - 1000MHz			180	A		
			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			G114921CA1341115	2021-05-19

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.

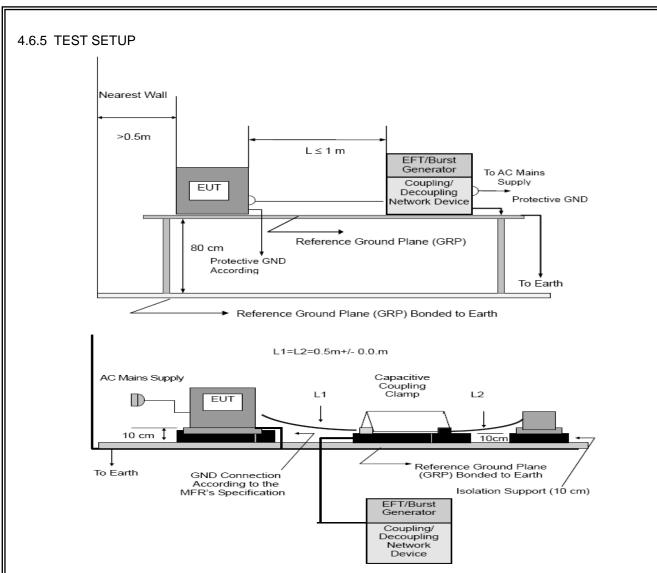
4.6.4 DEVIATION FROM TEST STANDARD

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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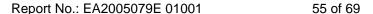


4.6.6 TEST RESULTS

Mode	(X) AC Po	wer Line	() DC Pc	ower Line	() Signal/Control Line		
Test Level	11	(V	0.5	KV	0.5KV		
Port(s)	Polarity	Results	Polarity	Results	Polarity	Results	
	Р		Р		Р		
Line (L)	N		N		N		
	Р		Р		Р		
Neutral (N)	N		N		N		
	Р		Р		Р		
Ground (PE)	N		N		N		
Signal/Control	Р		Р		Р		
Line	N		N		N		
Criteria	E	3	E	3	В		
Result			-	-			
Judgment	N	/A	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, L-PE, N-PE			
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

I	tem	Instr.Code	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
	1	AN-E001	Lightning surge generator	Prima	SUG61005CX	PR13065597	2021-05-19

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:

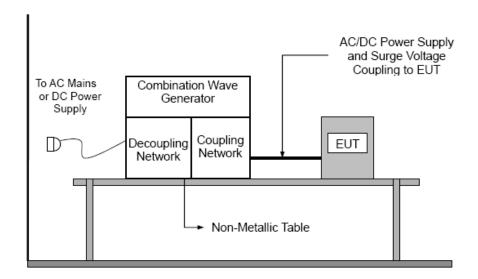
 The surge is applied to the lines via the capacitive coupling. The coupling /decoupling networks shall not influence the specified functional conditions of the EUT. The interconnection line between the EUT and the coupling/decoupling networks shall be 2 meters in length (or shorter).
- b. For test applied 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.



4.7.4 DEVIATION FROM TEST STANDARD

No deviation

4.7.5 TEST SETUP



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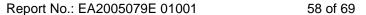


4.7.6 TEST RESULTS

Wave Form		1.2/50	(8/20)Ti/1	h us				
	Polarity Phase Voltage		,	Criteria	Judgment			
EUT Ports Tested	lolanty		0.5kV	1kV	2kV	4kV		
	+/-	0°						
L - N	+	90°					N/A	N/A
E - IV	+/-	180°						
	-	270°						
	+/-	0°						
L - PE	+	90°					N/A	N/A
L-PE	+/-	180°						1471
	-	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	14/1
	+/-	270°						
	+/-	0°						
Signal Line	+/-	90°					N/A	N/A
(N/A)	+/-	180°					14/7	IVA
	+/-	270°						

Note:

- 1) Polarity and Numbers of Impulses: 5 Pst / Ngt at each tested mode
- 2) N/A denotes test is not applicable in this Test Report
- 3) 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

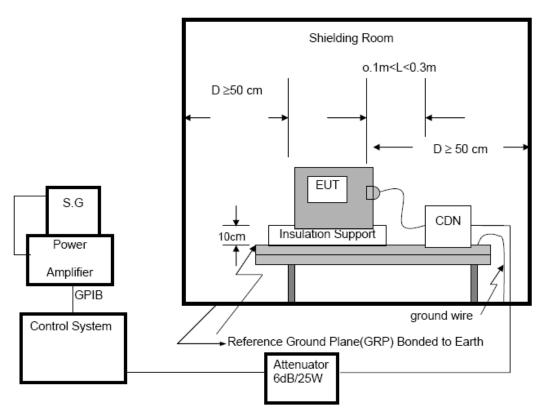
No deviation

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

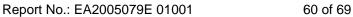
NOTE:

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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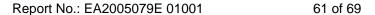
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4.8.6 TEST RESULTS

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

I	V	O	ŀρ
ı	v	v	ᅜ

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	2021-05-19

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

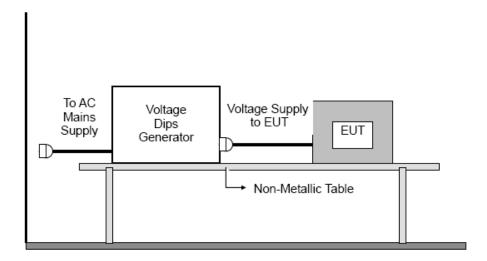
No deviation

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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 Criteria	Results	
Voltage dip 30%	10	С		N/A
Interruption100%	0.5	В		N/A

Test Power: 230Vac, 50Hz

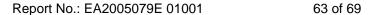
Voltage Reduction	Periods	Perform Criteria	Results	
Voltage dip 30%	10	С		N/A
Interruption100%	0.5	В		N/A

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

ŀ	tem 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.

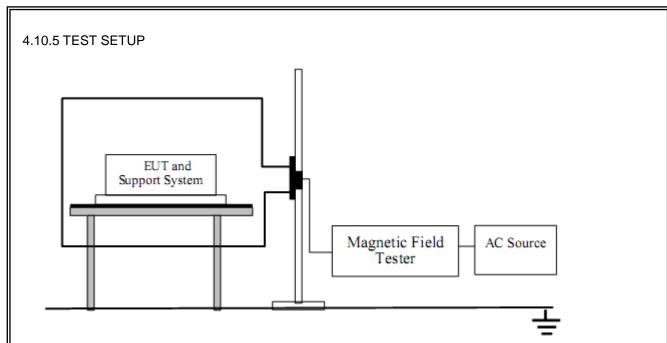
4.10.4 DEVIATION FROM TEST STANDARD

No deviation

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4.10.6 TEST RESULTS

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

Note:

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

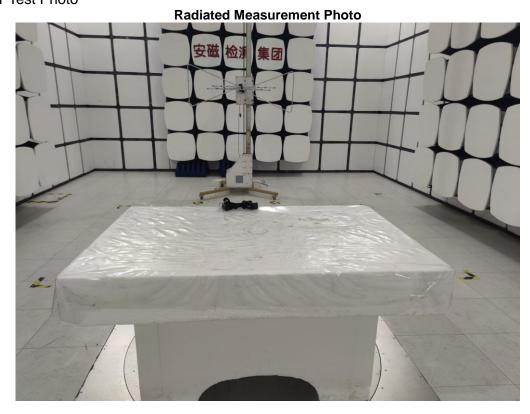
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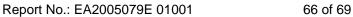
5. ATTACHMENT 5.1 EUT Test Photo



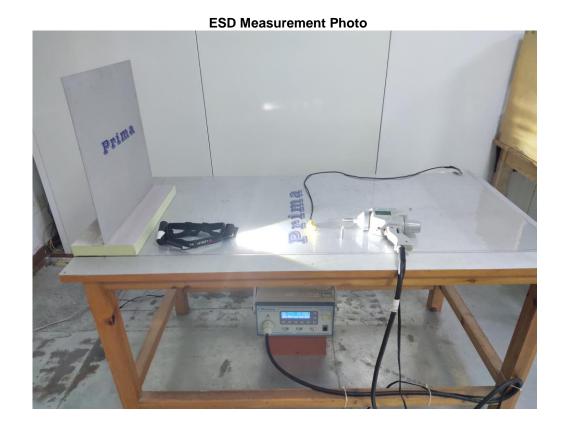


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5.2 EUT Photo



Figure 1. Overall view of unit



Figure 2. Overall view of unit





Figure 3. Inside view of unit

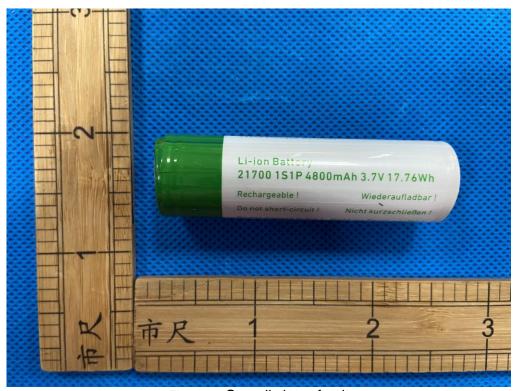


Figure 4. Overall view of unit

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Figure 5. Overall view of unit



Figure 6. Overall view of unit

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