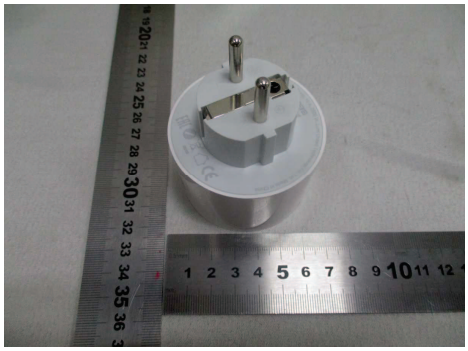
Prüfbericht-Nr.: *Test Report No.:*	**50275968 001**	**Auftrags-Nr.:** *Order No.:*	**244152831**	**Seite 1 von 26** *Page 1 of 26*
Kunden-Referenz-Nr.: *Client Reference No.:*	**60092347**	**Auftragsdatum:** *Order date.:*	**24.06.2019**	
Auftraggeber: *Client:*	**Lumi United Technology Co., Ltd.** F8, Jingqizhigu office building, No.1 Tangling Rd., Liuxian Ave., Taoyuan Sub-dist., Nanshan Dist. Shenzhen 518055, P. R. China			
Prüfgegenstand: *Test item:*	**Smart Plug**			
Bezeichnung / Typ-Nr.: *Identification / Type No.:*	**SP-EUC01**			
Auftrags-Inhalt: *Order content:*	**EMC test**			
Prüfgrundlage: *Test specification:*	**EN IEC 61058-1:2018, clause 25** **EN 61058-1-1:2016, clause 25**			
Wareneingangsdatum: *Date of receipt:*	**24.06.2019**			
Prüfmuster-Nr.: *Test sample No.:*	**A000951316-001**			
Prüfzeitraum: *Testing period:*	**Refer to test report**			
Ort der Prüfung: *Place of testing:*	**EMC laboratory**			
Prüflaboratorium: *Testing laboratory:*	**TÜV Rheinland (Shanghai) Co., Ltd.**			
Prüfergebnis*: *Test result*:*	**Pass**			



geprüft von / *tested by:*

Jessie Xu

02.09.2019 Jessie Xu/Senior project engineer

Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

kontrolliert von / *reviewed by:*

Jiayi Zhou

02.09.2019 Jiayi Zhou/Senior manager

Datum *Date*	**Name/Stellung** *Name/Position*	**Unterschrift** *Signature*

Sonstiges / *Other:*

The EMC requirements of above standards are the same as those of IEC 61058-1:2016. Therefore, all the EMC tests were performed with reference to IEC 61058-1:2016 clause 25.

Zustand des Prüfgegenstandes bei Anlieferung: *Condition of the test item at delivery:*
Prüfmuster vollständig und unbeschädigt
Test item complete and undamaged

* Legende:	1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhalt
	P(ass) = entspricht o.g. Prüfgrundlage(n)		F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
Legend:	1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor
	P(ass) = passed a.m. test specifications(s)		F(ail) = failed a.m. test specifications(s)	N/A = not applicable	N/T = not tested

TEST SUMMARY

4.1.1 HARMONICS ON AC MAINS
Result:
Passed
4.1.2 VOLTAGE FLUCTUATIONS ON AC MAINS
Result:
Passed
4.1.3 MAINS TERMINAL CONTINUOUS DISTURBANCE VOLTAGE
Result:
Passed
4.1.4 DISCONTINUOUS INTERFERENCE ON AC MAINS
Result:
N/A
4.2.1 RADIATED EMISSION
Result:
Passed
5.1.1 ELECTROSTATIC DISCHARGE
Result:
Passed
5.1.2 RF ELECTROMAGNETIC FIELD IMMUNITY TEST
Result:
Passed
5.1.3 POWER FREQUENCY MAGNETIC FIELD IMMUNITY TEST
Result:
Passed
5.2.1 ELECTRICAL FAST TRANSIENTS TEST
Result:
Passed
5.2.2 SURGES
Result:
Passed
5.2.3 VOLTAGE DIPS AND INTERRUPTIONS
Result:
Passed

Contents

1 Test Sites

1.1 Test Facilities

Laboratory: TÜV Rheinland (Shanghai) Co., Ltd.
Address: No.177, 178, Lane 777 West Guangzhong Road, Jing'an District, Shanghai, China

The used test equipment is in accordance with CISPR 16-1 series standards for measurement of radio interference.

Refer to Clause 7 for test and measurement instruments.

2 General Product Information

2.1 Product Function and Intended Use

The EUT (equipment under test) is an ordinary smart plug. For the further information, refer to the user's manual.

2.2 Ratings and System Details

Rated input	:	AC 250 V, 10 A
Rated frequency	:	50/60 Hz
Maximum power	:	Max. 2300 W
Protection class	:	I

2.3 Independent Operation Modes

The basic operation modes are: "On" or "Off".
Refer to the circuit diagram for further information.

2.4 Noise Generating and Noise Suppressing Parts

Refer to the circuit diagram for further information.

2.5 Submitted Documents

Rating label and circuit diagram.

3 Test Set-up and Operation Modes

3.1 Principle of Configuration Selection

Emission: The equipment under test (EUT) was configured to measure its highest possible emission level. The test conditions were adapted accordingly in reference to the instructions for use.

Refer to the related paragraph of this report.

Immunity: The equipment under test (EUT) was configured to have its highest possible susceptibility against the tested phenomena. The test conditions were adapted accordingly in reference to the instructions for use.

Refer to the related paragraph of this report.

3.2 Physical Configuration for Testing

Refer to the related paragraph of this report.

3.3 Test Operation and Test Software

Refer to the related paragraph of this report. No software was used.

3.4 Special Accessories and Auxiliary Equipment

During the test, the incandescent bulb and electronic load were connected to the EUT as the load.

3.5 Countermeasures to achieve EMC Compliance

No special measure is employed to achieve the requirement.

4 Test Results E M I S S I O N

4.1 Emission in the Frequency Range up to 30 MHz

4.1.1 Harmonics on AC mains

Result:	Passed

Reference clause : IEC 61058-1:2016, clause 25.3.1
Basic standard : IEC 61000-3-2:2014

According to Clause 7 of IEC 61000-3-2:2014, there is no limit specified for equipment with a rated power of 75 W or less, other than lighting equipment. Except the load, the EUT's rated power is less than 75 W. Therefore, the EUT is deemed to meet the requirements of IEC 61000-3-2:2014 without actual testing.

4.1.2 Voltage Fluctuations on AC Mains

Result:	Passed

Reference clause : IEC 61058-1:2016, clause 25.3.1
Basic standard : IEC 61000-3-3:2013

Except the load, the EUT's rated power is low, it do not produce voltage fluctuation which will exceed the limits specified by the standard above. Therefore, the EUT is deemed to meet the requirements of IEC 61000-3-3:2013 without actual testing.

4.1.3 Mains Terminal Continuous Disturbance Voltage

Result:	Passed

Date of testing	:	29.08.2019
Reference clause	:	IEC 61058-1:2016, clause 25.3.2
Basic standard	:	CISPR 14-1:2005+A1+A2 & CISPR 16-1 series standards
Frequency range	:	0.15 – 30 MHz
Limit	:	Table 1, CISPR 14-1:2005+A1+A2
Kind of test site	:	Shielded room
Ambient condition	:	Temperature: 22.4 ºC; Relative humidity: 52.6 %
Expanded measurement uncertainty (k=2)	:	3.39dB

Test Setup

Input voltage	:	AC 275 V, 50 Hz
Operational mode	:	The EUT operated in ON state with electronic load as load
Artificial hand	:	N/A
Earthing	:	Earthing through the power cord. (as class I equipment)

The measurement setup was made according to CISPR 14-1:2005+A1+A2 in a shielded room.

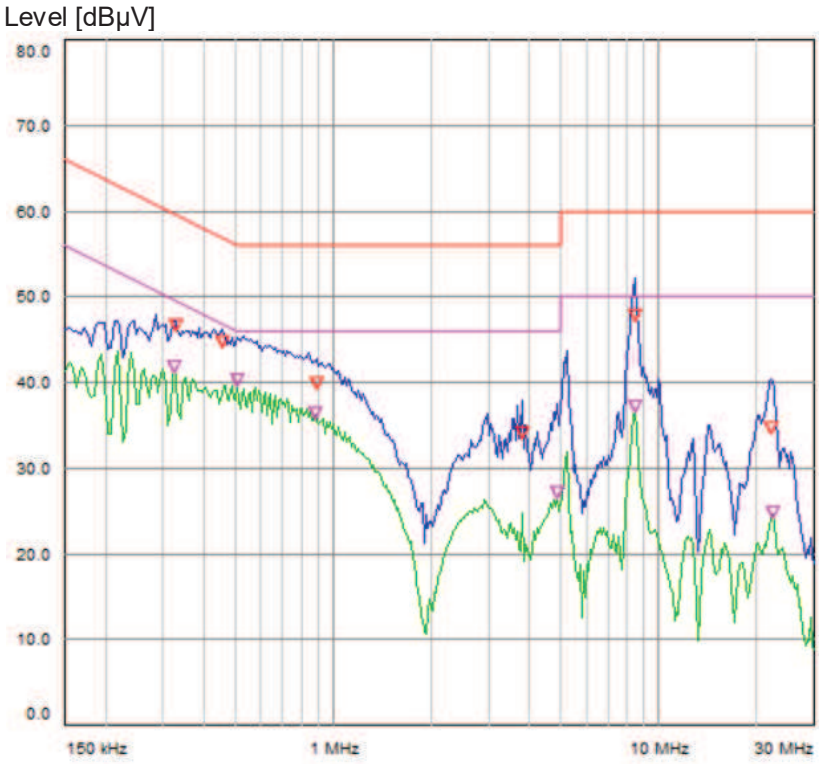
The measurement equipment like test receivers, quasi-peak detector and Artificial Mains Network (AMN) are in compliance with CISPR 16-1 series standards. The tested object was operated under its rated voltage and its rated frequency. Prior to the measurements the test object operated about 15 minutes (warm-up) in order to stabilize its operating conditions and to ensure reliable measurement values.

Furthermore an internal calibration with the test receiver was conducted prior to each measurement. The tested object was set-up on a 0.4 m high wooden table. The EUT was set 0.8 m away from the AMN. The part of the cord that is longer than necessary to be connected to the AMN was folded forth and backs parallel so as to form a bundle with a length between 0.3 m and 0.4 m.

The disturbance voltage was determined while measuring the line and neutral conductor by turns.

The following figures and tables were those measured by an automatic measuring system. Both Quasi-peak and Average value were measured. Quasi-peak and Average value were measured and listed respectively where they had a maximum in previous scanning survey. In the figures, "▽" means Quasi-peak value and "▽" means Average value which was measured in final measurement.

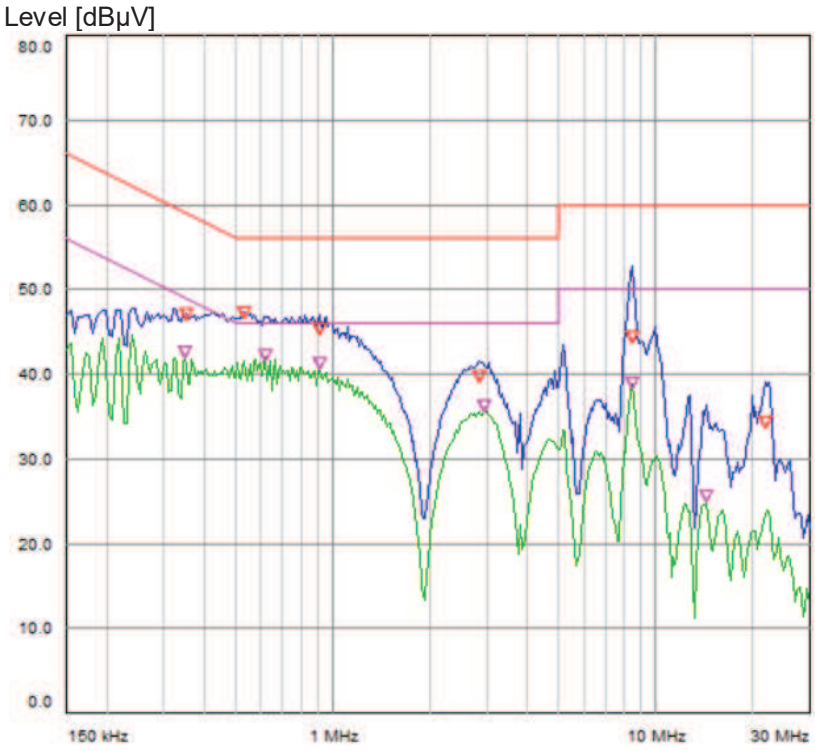
Figure 1: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, L



Final measurement results:

Trace	Frequency (MHz)	Level (dBµV)	Limit (dBµV)	Delta Limit (dB)
2 CA	0.3255	41.24	49.57	-8.33
2 CA	0.51	39.54	46.00	-6.46
2 CA	0.8835	35.76	46.00	-10.24
2 CA	4.8795	26.42	46.00	-19.58
2 CA	8.457	36.53	50.00	-13.47
2 CA	22.4295	24.06	50.00	-25.94
1 QP	0.33	45.99	59.45	-13.46
1 QP	0.456	44.08	56.77	-12.69
1 QP	0.888	39.27	56.00	-16.73
1 QP	3.795	33.37	56.00	-22.63
1 QP	8.4435	47.14	60.00	-12.86
1 QP	22.227	33.93	60.00	-26.07

Figure 2: Spectral Diagrams, Conducted Emission, 150 kHz – 30 MHz, N



Final measurement results:

Trace	Frequency (MHz)	Level (dBµV)	Limit (dBµV)	Delta Limit (dB)
2 CA	0.348	41.94	49.01	-7.07
2 CA	0.618	41.58	46.00	-4.42
2 CA	0.9105	40.63	46.00	-5.37
2 CA	2.94	35.65	46.00	-10.35
2 CA	8.448	38.19	50.00	-11.81
2 CA	14.298	24.84	50.00	-25.16
1 QP	0.3525	46.34	58.90	-12.56
1 QP	0.5325	46.49	56.00	-9.51
1 QP	0.9105	44.62	56.00	-11.38
1 QP	2.832	39.04	56.00	-16.96
1 QP	8.43	43.64	60.00	-16.36
1 QP	21.9885	33.61	60.00	-26.39

4.1.4 Discontinuous Interference on AC Mains

Result:	**N/A**

4.2 Emission in the Frequency Range above 30 MHz

4.2.1 Radiated emission

Result:	Passed

Date of testing	:	02.09.2019
Test procedure	:	IEC 61058-1:2016, clause 25.3.2
Basic standard	:	CISPR 14-1:2005+A1+A2 & CISPR 16-1 series standards
Frequency range	:	30-1000 MHz
Kind of test site	:	Semi-anechoic Chamber
Measurement distance	:	3 m
Polarization of antenna	:	Both horizontal and vertical
Limit	:	Quasi-peak limits (3m test distance): 30-230 MHz, 40 dBµV/m; 230-1000 MHz, 47 dBµV/m;
Ambient condition	:	Temperature: 22 ºC; Relative humidity: 53.9 %
Expanded measurement uncertainty (k=2)	:	5.49 dB

Test Setup

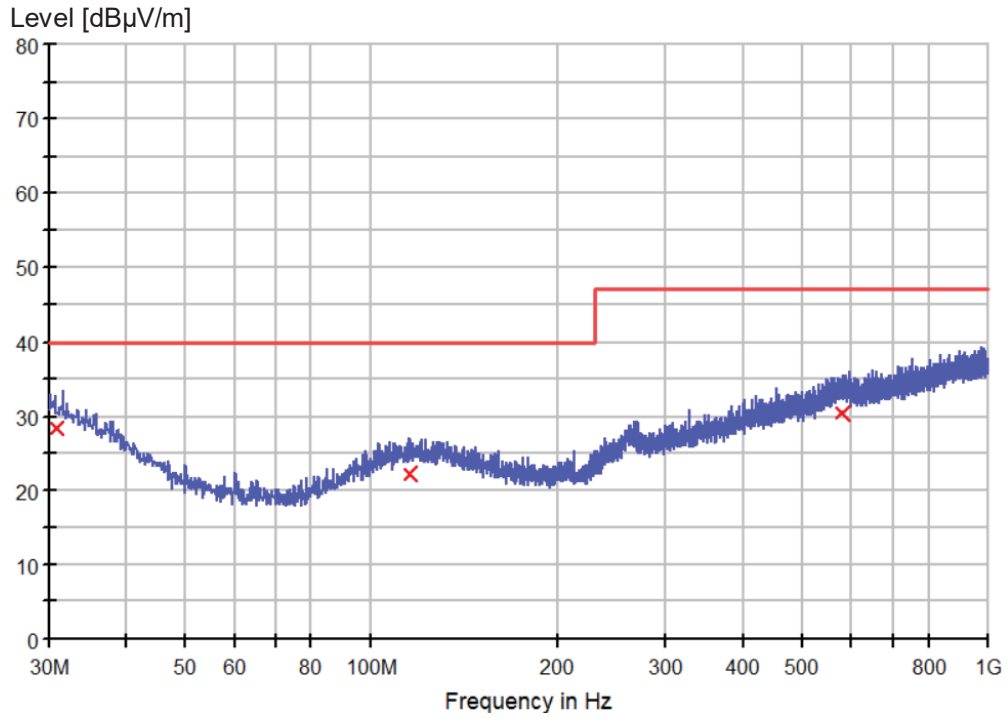
Test voltage	:	AC 275 V, 50 Hz
Operational mode	:	The EUT operated in ON state with electronic load as load
Earthing	:	Earthing through the power cord. (as class I equipment)

The radiated disturbance was measured in the frequency range from 30 MHz to 1000 MHz according to CISPR 14-1:2005+A1+A2.

The test setup was made according to CISPR 14-1:2005+A1+A2 in a semi-anechoic chamber. The test distance from the receiving antenna to the EUT is 3 m. The normalized site attenuation of the semi-anechoic chamber is regularly calibrated to ensure the radiated disturbance test results are valid. During the test, the EUT was placed on a 0.8 m high wooden table. The wooden table can be rotated 360º around and the receiving antenna was varied from 1 m to 4 m to find the maximum disturbance. The test was performed with the antenna both in horizontal and vertical polarizations.

The following figures were those measured and recorded by a test receiver. The curves in the figure were those measured with a peak detector. The symbol "×" in the figures are those of quasi-peak value which were measured in final measurement. Quasi-peak detector measurement was only performed at those critical frequencies obtained during the test with peak detector.

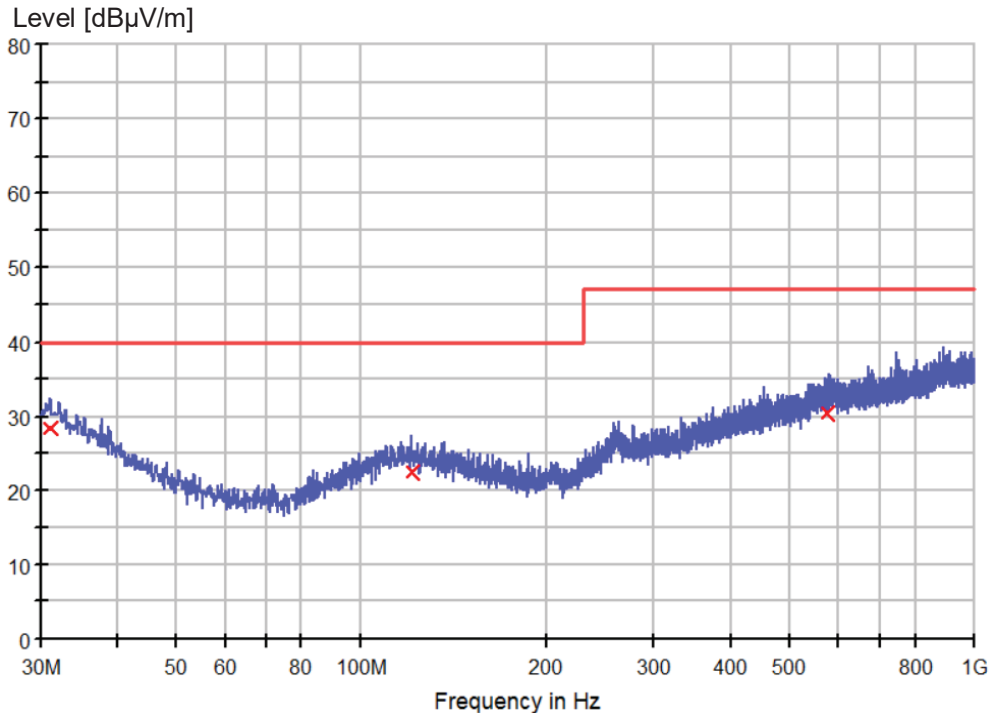
Figure 3: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Horizontal polarization



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.848750	28.4	1000.0	120.000	100.0	H	180.0	24.9	11.6	40.0
115.602500	22.3	1000.0	120.000	100.0	H	180.0	19.2	17.7	40.0
577.807500	30.4	1000.0	120.000	100.0	H	180.0	26.6	16.6	47.0

Figure 4: Spectral Diagrams, Radiated Emission, 30 MHz-1000 MHz, Vertical polarization



Final quasi-peak measurement results:

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.091250	28.3	1000.0	120.000	100.0	V	0.0	24.8	11.7	40.0
121.180000	22.4	1000.0	120.000	100.0	V	0.0	19.3	17.6	40.0
577.322500	30.5	1000.0	120.000	100.0	V	0.0	26.6	16.5	47.0

5 Test Results I M M U N I T Y

During the immunity tests, the EUT were operated under conditions specified by clause 3.1 of this report.

The particular performance criterion for the immunity tests according to EN IEC 61058-1:2018 and IEC 61058-1:2016 are listed as follows:

For Surge immunity test, Voltage dips and short interruption test, Electrical fast transient test and ESD test:
During the test, the electronic switch state and/or setting may alter.
Occasional flickering of luminaires and irregular running of motors during the test are neglected.
After the test, the electronic switch shall be in the original state and the setting shall be unchanged.

For Radiated electromagnetic field test:
After the test, the electronic switch shall be in the original state and the setting shall be unchanged.
During the test, the electronic switch state and/or setting may alter; other changes are not acceptable.
Occasional flickering of luminaires and irregular running of motors during the test are neglected.

For power frequency magnetic field test:
During the test, the state of the electronic switch shall not change.
Occasional flickering of lamps or irregular running of motors during the test is not allowed.

Date of testing: 29.08.2019

Room Temperature: 21.9 ºC-23 ºC
Relative Humidity: 52.7 % -53.9 %

5.1 Enclosure

5.1.1 Electrostatic Discharge

Result:	Passed

The EUT is placed on 0.8 m wooden table above the ground plane. And the minimum distance between the EUT and all other conductive structures except the ground plane beneath the EUT is more than 0.5 m.

The reference ground plane is an aluminum sheet of 0.25 mm minimum thickness. The reference ground plane is connected to the protective earth. The size of the ground plane is 2m x 2 m.

A horizontal coupling plane (HCP), 1.6 m x 0.8 m, placed on the table and isolate the EUT 0.5 mm thick. A vertical coupling plane (VCP) of dimensions 0.5 m x 0.5 m is placed parallel to and positioned at a distance of 0.1 m from the EUT.

Reference clause	:	IEC 61058-1:2016, clause 25.2.5
Basic standard	:	IEC 61000-4-2
	:	IEC 61058-1:2016, clause 25.2.5
Test level		±2.0 kV, ±4.0 kV (Contact discharge) ±2.0 kV, ±4.0 kV, ±8.0 kV (Air discharge)
Polarity	:	positive / negative
Number of discharges	:	≥10 times
Performance criteria	:	Refer to clause 5
Atmospheric pressure	:	101.3 kPa
Operational mode	:	The EUT operated in ON and OFF states with incandescent bulb as load.

Table 1: ESD, Positive / Negative Polarity

Tested position	Kind of Discharge	Actual performance	Result
Non-metal enclosure	Air discharge	During the tests, the EUT worked as intended and its state didn't change.	Pass
LED indicator	Air discharge		Pass
Coupling plane (Both HCP and VCP)	Contact discharge		Pass

5.1.2 RF electromagnetic field immunity test

Result:	Passed

The test was performed inside a fully anechoic chamber with a test disturbance of 3 m. The field uniformity of the fully anechoic chamber is regularly calibrated to ensure the 0-6 dB field uniformity criterion as specified by IEC 61000-4-3 is met.

Reference clause	:	IEC 61058-1:2016, clause 25.2.6
Basic standard	:	IEC 61000-4-3
Test level	:	IEC 61058-1:2016, clause 25.2.6 3 V/m
Frequency range	:	80-2000 MHz
Modulation	:	80% 1kHz AM
Frequency scan speed	:	Frequency step: 1 %; Dwell time: 3 s
Performance criteria	:	Refer to clause 5
Operational mode	:	The EUT operated in ON and OFF states with incandescent bulb

Table 2: RF electromagnetic field immunity test results

Polarization	Position	Actual performance	Result
Horizontal	Front side	During the tests, the EUT worked as intended and its state didn't change.	Pass
	Rear side		
	Left side		
	Right side		
Vertical	Front side		Pass
	Rear side		
	Left side		
	Right side		

5.1.3 Power frequency magnetic field immunity test

Result:	Passed

Reference clause : IEC 61058-1:2016, clause 25.2.7
Basic standard : IEC 61000-4-8
Test level : IEC 61058-1:2016, clause 25.2.7
3 A/m, 50 Hz
Input voltage : AC 230 V, 50 Hz
Performance criteria : Refer to clause 5
Operation mode : The EUT operated in ON and OFF states with incandescent bulbs as load

Table 3: Power frequency magnetic field test results

Position	Actual performance	Result
X Orientation	During the tests, the EUT worked as intended and its state didn't change.	Pass
Y Orientation		Pass
Z Orientation		Pass

5.2 Power Ports and control Ports

5.2.1 Electrical Fast Transients Test

Result:	Passed

During the test, the EUT was placed on a 0.1 m high wooden support above the ground reference plane. The minimum distance between the EUT and all other conductive structures except the ground reference plane beneath the EUT is more than 0.5 m.

The length between the coupling device and the EUT is less than 0.5 m. The cord length more than 0.5 m, the excess length of the cable shall be folded to avoid a flat coil and situated at a distance of 0.1 m above the ground reference plane.

The reference ground plane is an aluminum sheet of 0.25 mm minimum thickness. The reference ground plane is connected to the protective earth. The size of the ground plane is 2 m x 2 m.

Reference clause	:	IEC 61058-1:2016, clause 25.2.4
Basic standard	:	IEC 61000-4-4
Test level	:	IEC 61058-1:2016, Table 18 ±1 kV, 5 kHz
Polarity	:	+/-
Coupling duration	:	1 min/polarity
Input voltage	:	AC 230V, 50Hz
Performance criteria	:	Refer to clause 5
Operational mode	:	The EUT operated in ON and OFF states with incandescent bulb as load

Table 4: EFT/B immunity test results

Tested port	Coupling mode	Actual performance	Result
AC input port	CDN	During the tests, the EUT worked as intended and its state didn't change.	Pass

5.2.2 Surges

Result:	**Passed**

Test setup and the Combination Wave Generator (CWG) were according to IEC 61000-4-5.

The EUT is placed on 0.1 m wood table above the ground plane.

Reference clause	:	IEC 61058-1:2016, clause 25.2.3
Basic standard	:	IEC 61000-4-5
Test level	:	IEC 61058-1:2016, clause 25.2.3 ±0.5 kV, ±1 kV (differential mode) ±0.5 kV, ±1 kV (common mode)
T_r/T_d	:	1.2/50 µs (open-circuit voltage) 8/20 µs (short-circuit current)
Polarity	:	Positive / Negative
Pulse number	:	5 pulses for each polarity
Coupling phase	:	0°, 90°, 180°, 270°
Repetition rate	:	1 pulse/60second
Input voltage	:	AC 230 V, 50 Hz
Performance criteria	:	Refer to clause 5
Operational mode	:	The EUT operated in ON and OFF states with incandescent bulb as load

Table 5: Surge immunity test results

Tested port	Actual performance	Result
L-N (differential mode)	During and test, the lamp flickered. After the disturbance ceased, it could be restored.	Pass
L-PE (common mode)		Pass
N-PE (common mode)		Pass

5.2.3 Voltage dips and interruptions

Result:	Passed

Test setup and the test generator were according to IEC 61000-4-11.

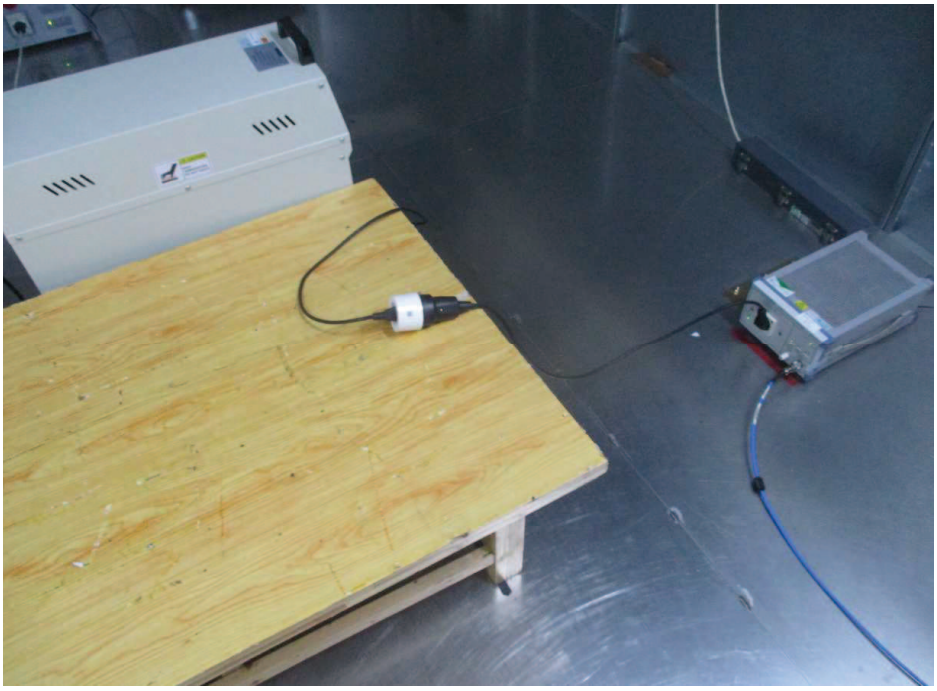
Reference clause	:	IEC 61058-1:2016, clause 25.2.2
Basic standard	:	IEC 61000-4-11
Test level	:	IEC 61058-1:2016, Table 17 0 %U_T, 10 cycles 40 %U_T, 10 cycles 70 %U_T, 10 cycles
Test angle	:	0° and 180°
Repetition and interval	:	Three times with intervals of 10 s
Input voltage	:	AC 230 V, 50 Hz
Performance criteria	:	Refer to clause 5
Operational mode	:	The EUT operated in ON and OFF states with incandescent bulb as load

Table 6: Test condition and test result for voltage interruptions

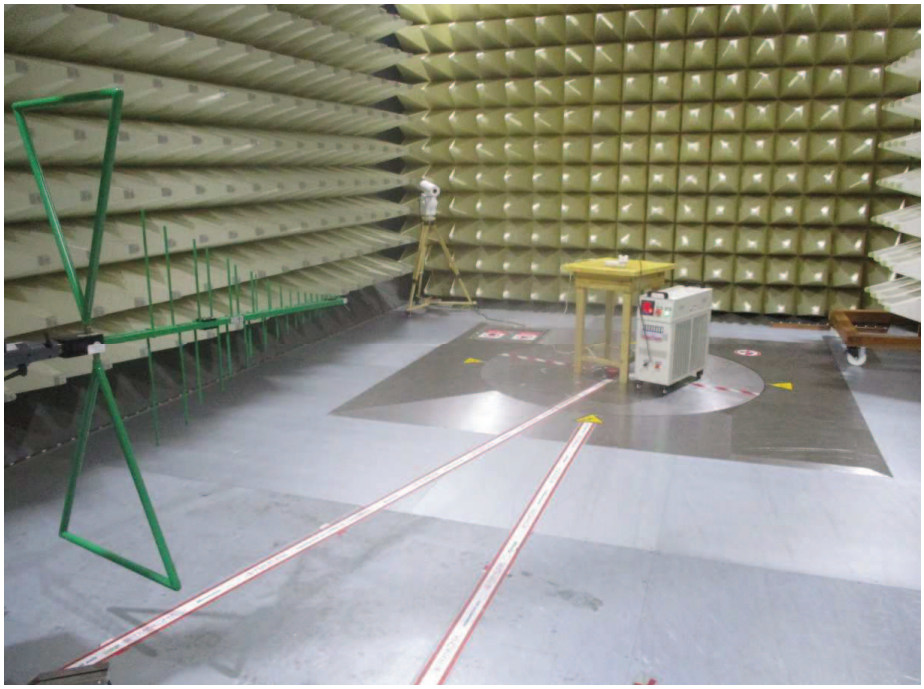
Test level (in % U_T)	Duration	Actual performance	Result
0	10 (200 ms)	During and test, the lamp flickered. After the disturbance ceased, it could be restored.	Pass
40	10 (200 ms)	During the tests, the EUT worked as intended and its state didn't change.	Pass
70	10 (200 ms)	During and test, the lamp flickered. After the disturbance ceased, it could be restored.	Pass

6 Photographs of the Test Set-Up

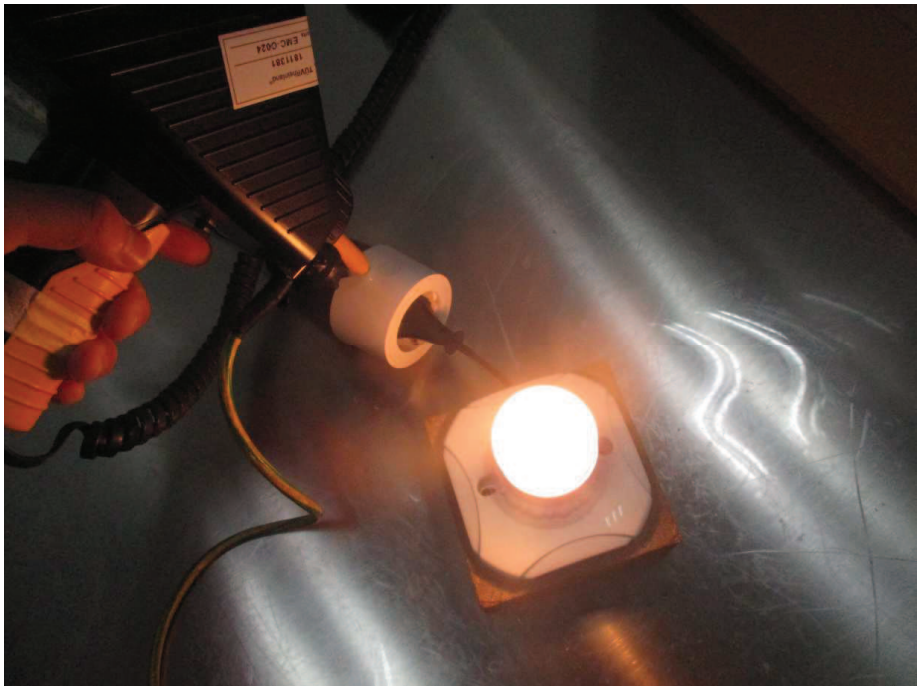
Photograph 1: Set-up for disturbance voltage measurement



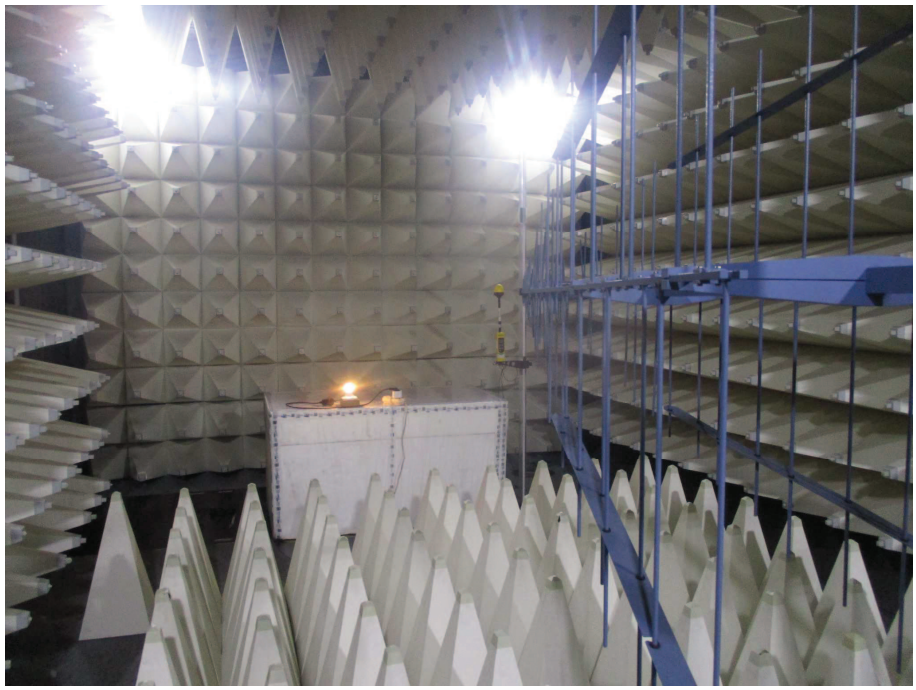
Photograph 2: Set-up for measurement of radiated emissions



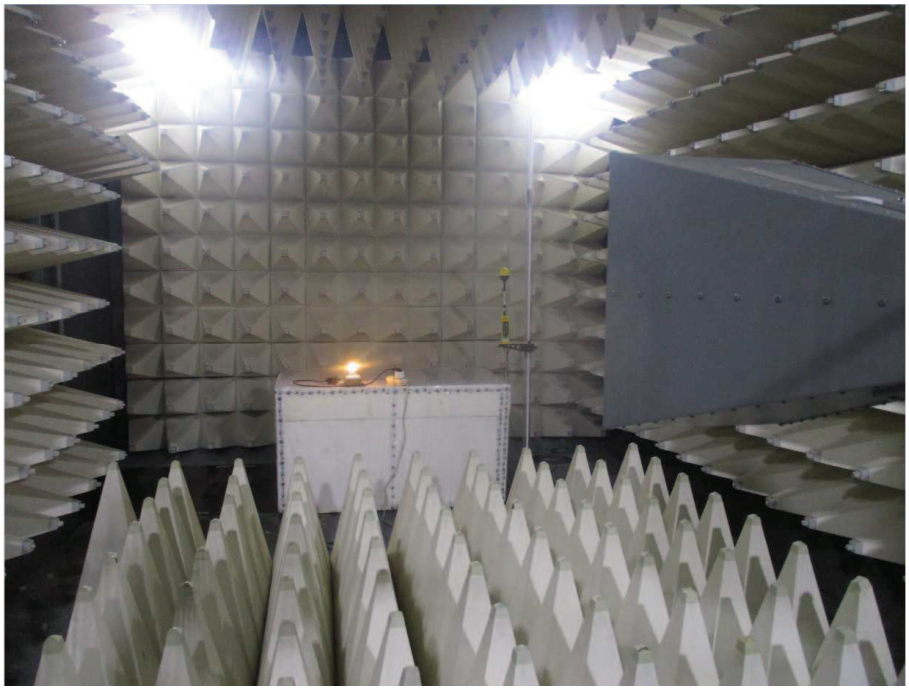
Photograph 3: Set-up for electrostatic discharge immunity test



Photograph 4: Set-up for RF electromagnetic field immunity test



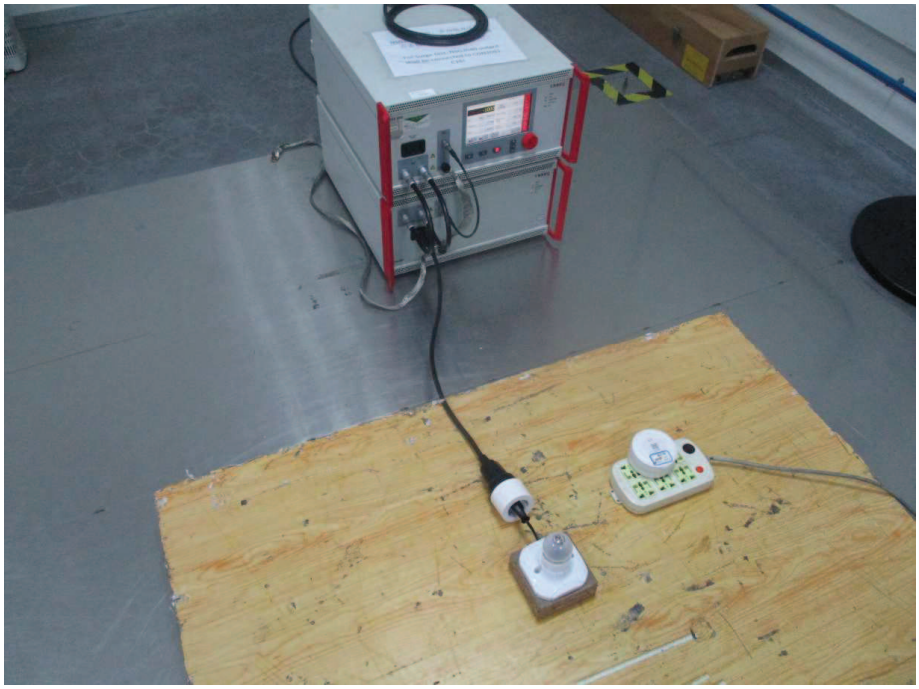
(80-1000 MHz)



(1 - 2 GHz)

Photograph 5: Set-up for immunity test of power frequency magnetic fields

Photograph 6: Set-up for immunity test of surge and fast transient/burst



Photograph 7: Set-up for voltage dips and interruptions immunity test

7 List of Test and Measurement Instruments

Old ID	Equip.	Description	Model	Manufacturer	Inte. (mon)	Due Date DD.MM.YYYY
EMC-C-103	1811402	EMI test receiver	ESCI	Rohde&Schwarz	12	19.09.2019
EMC-C-110	1811407	Artificial mains network	ENV216	Rohde&Schwarz	12	19.02.2020
EMC-S-025	1824846	EMC Measurement Software	ES-SCAN (Version2.7)	ROHDE&SCHWARZ	NA*	NA*
EMC-C-001	1811378	3m modified semi-anechoic chamber	SAC3	Frankonia	36	14.05.2022
EMC-C-066	1811391	EMI test receiver	ESCI	Rohde&Schwarz	12	02.11.2019
EMC-C-155	1811425	Bilog Antenna	CBL 6112D	TESEQ	36	14.02.2020
EMC-S-002	1824845	EMC Measurement Software	EMC32 (Ver 10.20.01)	ROHDE&SCHWARZ	NA*	NA*
EMC-C-024	1811381	ESD generator	NSG 435	Schaffner	12	26.07.2020
EMC-C-093	1811396	Barometer	DYM3	Ningbo Jiangshan Gl	36	04.04.2021
EMC-C-132	1811416	Fully anechoic chamber	FAC3plus	Frankonia	36	25.07.2022
EMC-C-065	1811390	Signal generator	SMR20	Rohde&Schwarz	36	03.11.2020
EMC-C-153	1811424	Power Amplifier	80RF1000-300	MILMEGA	12	02.11.2019
EMC-C-182	1825214	Power Amplifier	AS0825-170	MILMEGA	12	20.03.2020
EMC-C-096	1811397	Power amplifier	AS0206-50	MILMEGA	12	02.11.2019
EMC-C-162	1817022	Average Power Sensor	NRP6AN	ROHDE&SCHWARZ	12	19.02.2020
EMC-C-163	1817023	Average Power Sensor	NRP6AN	ROHDE&SCHWARZ	12	19.02.2020
EMC-C-097	1811398	Broadband Field Meter	NBM-520	Narda	12	23.04.2020
EMC-C-098	1811399	E-field Probe	EF1891	Narda	12	23.04.2020
EMC-NC-032	1811432	EMS antenna	HL 046	Rohde&Schwarz	NA*	NA*
EMC-NC-055	1811433	Broadband horn antenna	BBHA 9120 E	Schwarzbeck	NA*	NA*
EMC-C-115	1811409	EMC test system	NSG 3040	Teseq	12	19.11.2019
EMC-C-160	1811428	3-phase Voltage Dips Simulator	CSS-20P3	Shanghai Skylark	12	30.10.2019
EMC-C-073	1811393	Magnetic field immunity tester	MFO 6501 & INA 702	Schaffner	12	14.02.2020

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