



# SHENZHEN PULUZ TECHNOLOGY LIMITED

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## EMC REPORT

Prepared For :	<b>Shenzhen PULUZ Technology Limited</b> 8/F, 614 Bldg, Bagua 1st Road, Futian, Shenzhen, China
Product Name:	Portable Fold LED Light Studio Box
Trade Name:	PULUZ
Model :	PU5022
Additional models:	PU5021
Prepared By :	BST Testing (Shenzhen) Co., Ltd. No.7, New Era Industrial Zone, Guantian, Bao'an District, Shenzhen, Guangdong, China
Test Date:	Nov.06 , 2023 - Nov.10 , 2023
Date of Report :	Nov.13 , 2023
Report No.:	XD252238831111323ER



Vvaxzw

IkNhHv



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## TEST REPORT DECLARATION

Applicant : SHENZHEN PULUZ TECHNOLOGY LIMITED  
ADDRESS : 8/F, 614 BLDG, BAGUA 1ST ROAD, FUTIAN, SHENZHEN, CHINA  
EUT Description : Portable Fold LED Light Studio Box  
Voltage parameter : /  
  
Model Number : PU5022

### Test Standards:

EN IEC 55015:2019/A11:2020  
EN IEC 61547:2020  
EN IEC 61000-3-2:2019+A1:2021  
EN 61000-3-3:2013 + A1:2019 + A2:2021

The EUT described above is tested by BST Testing (Shenzhen) Co.,Ltd. EMC Laboratory to determine the maximum emissions from the EUT and ensure the EUT to be compliance with the immunity requirements of the EUT. BST Testing (Shenzhen) Co.,Ltd. EMC Laboratory is assumed full responsibility for the accuracy of the test results. Also, this report shows that the EUT technically complies with the 2014/30/EU directive and its amendment requirements.

The test report is valid for above tested sample only and shall not be reproduced in part without written approval of the laboratory.

Prepared by :

Assistant

Tested by :



Reviewer :

Approved & Authorized Signer :

Salon/Manager



## 1. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Power Line Conducted Emission Test	PASS
Magnetic Test	PASS
Radiated Emission	PASS
Harmonic Current Emission Test	PASS
Voltage Fluctuations & Flicker Test	PASS
Electrostatic Discharge Test	PASS
RF Field Strength Susceptibility Test	PASS
Electrical Fast Transient/Burst Test	PASS
Surge Test	PASS
Injected Currents Susceptibility Test	PASS
Magnetic Field Immunity Test	PASS
Voltage Dips And Interruptions Test	PASS



## 2. GENERAL INFORMATION

### 2.1. Report information

- 2.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BST approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BST in any way guarantees the later performance of the product/equipment.
- 2.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BST therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 2.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BST, unless the applicant has authorized BST in writing to do so.

### 2.2. Measurement Uncertainty

(95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test	2.2dB
Uncertainty for Magnetic emission test	3.3dB
Uncertainty for Radiation emission test (30MHz to 1GHz)	4.0dB



### 3. PRODUCT DESCRIPTION

#### 3.1.EUT Description

Description	:	Portable Fold LED Light Studio Box
Applicant	:	SHENZHEN PULUZ TECHNOLOGY LIMITED 8/F, 614 Bldg, Bagua 1st Road, Futian, Shenzhen, China
Manufacturer	:	SHENZHEN PULUZ TECHNOLOGY LIMITED PangNiu Industrial Park, No.6, Xintang Industrial Road, Wulian, Feng Dongguan, Guangdong, China
Model Number	:	PU5022

#### 3.2.Block Diagram of EUT Configuration



#### 3.3.Operating Condition of EUT

Test mode 1: ON

#### 3.4.Test Conditions

Temperature: 23-26°C

Relative Humidity: 55-68 %

#### 3.5.Modifications

No modification was made.



### 3.6.Abbreviations

AC	Alternating Current
AMN	Artificial Mains Network
DC	Direct Current
EM	ElectroMagnetic
EMC	ElectroMagnetic Compatibility
EUT	Equipment Under Test
IF	Intermediate Frequency
RF	Radio Frequency
rms	root mean square
EMI	Electromagnetic Interference
EMS	Electromagnetic Susceptibility

### 3.7.Performance Criterion

**Criterion A:** The equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed below a performance level specified by the manufacturer when the equipment is used as intended.

**Criterion B:** After the test, the equipment shall continue to operate as intended without operator intervention. No degradation of performance or loss of function is allowed, after the application of the phenomena below a performance level specified by the manufacturer, when the equipment is used as intended.

**Criterion C:** Loss of function is allowed, provided the function is self-recoverable, or can be restored by the operation of the controls by the user in accordance with the manufacturer's instructions.



## 4. TEST EQUIPMENT USED

### 4.1. For Conducted Emission Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS30	828985/018	Oct. 08, 23	1 Year
2.	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100006	Oct. 08, 23	1 Year
3.	L.I.S.N.	Rohde & Schwarz	ESH2-Z5	834549/005	Oct. 08, 23	1 Year
4.	Conical	Emtek	N/A	N/A	N/A	N/A
5.	Voltage Probe	Schwarzbeck	TK9416	N/A	Oct. 08, 23	1 Year
6.	Coaxial Switch	Anritsu	MP59B	6100214550	Oct. 08, 23	1 Year

### 4.2. For Magnetic Test (In Shielding Room)

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESHS20	836600/006	Oct. 08, 23	1 Year
2.	Triple-loop Antenna	Rohde & Schwarz	HM020	843885/002	Oct. 08, 23	1 Year
3.	RF Cable	MIYAZAKI	5D-2W	Tri-loop Cable	Oct. 08, 23	1/2 Year
4.	Coaxial Switch	Anritsu	MP59B	M73989	Oct. 08, 23	1/2 Year

### 4.3. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum Analyzer	ANRITSU	MS2661C	6200140915	Oct. 08, 23	1 Year
2.	Test Receiver	Rohde&Schwarz	ESC830	828982/018	Oct. 08, 23	1 Year
3.	Bilog Antenna	Schwarzbeck	VULB9163	142	Oct. 08, 23	1 Year
4.	50 Coaxial Switch	Anritsu Corp	MP59B	6100237248	Oct. 08, 23	1 Year
5.	Cable	Schwarzbeck	AK9513	ACRX1	Oct. 08, 23	1 Year
6.	Cable	Rosenberger	N/A	FR2RX2	Oct. 08, 23	1 Year
7.	Cable	Schwarzbeck	AK9513	CRRX2	Oct. 08, 23	1 Year
8.	Cable	Schwarzbeck	AK9513	CRRX2	Oct. 08, 23	1 Year
9.	Signal Generator	HP	864A	3625U00573	Oct. 08, 23	1 Year

### 4.4. For Harmonic / Flicker Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Harmonic and Flicker analyzer	Laplace	AC2000A	309709	Oct. 08, 23	1 Year

### 4.5. For Electrostatic Discharge Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	ESD Tester	HAEFELY	PSD 1600	H911'292	Oct. 08, 23	1 Year



#### 4.6. For RF Strength Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Signal Generator	HP	8648A	3633A02081	Oct. 08, 23	1 Year
2.	Amplifier	A&R	500A100	17034	NCR	NCR
3.	Amplifier	A&R	100W/1000M1	17028	NCR	NCR
4.	Isotropic Field Monitor	A&R	FM2000	16829	NCR	NCR
5.	Isotropic Field Probe	A&R	FLW220100	16755	Oct. 08, 23	1 Year
6.	Biconic Antenna	EMCO	3108	9507-2534	NCR	NCR
7.	Log-periodic Antenna	A&R	AT1080	16812	NCR	NCR
8.	PC	N/A	486DX2	N/A	N/A	N/A

#### 4.7. For Electrical Fast Transient/Burst Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Burst Tester	HAEFELY	PEFT 4010	080981-16	Oct. 08, 23	1 Year

#### 4.8. For Surge Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Surge Tester	HAEFELY	PSURGE4.1	080107-04	Oct. 08, 23	1 Year

#### 4.9. For Injected Currents Susceptibility Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Simulator	EMTEST	CWS 500C	0900-12	Oct. 08, 23	1 Year
2.	CDN	EMTEST	CDN-M2	510010010010	Oct. 08, 23	1 Year
3.	VDN	EMTEST	CDN-M3	0900-11	Oct. 08, 23	1 Year
4.	Injection Clamp	EMTEST	F-2031-23MM	368	Oct. 08, 23	1 Year
5.	Attenuator	EMTEST	ATT6	0010222a	Oct. 08, 23	1 Year

#### 4.10. For Magnetic Field Immunity Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Magnetic Field Tester	HEAFELY	MAG100.1	083858-10	Oct. 08, 23	1 Year

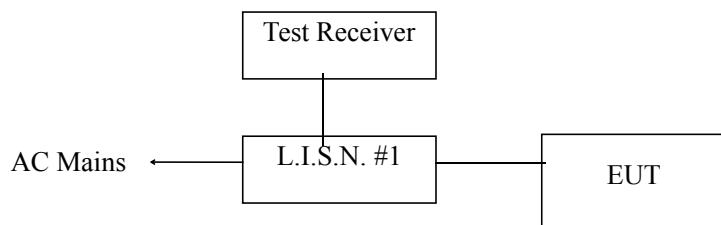
#### 4.11. For Voltage Dips and Interruptions Test

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Dips Tester	HEAFELY	PLINE 1610	083732-18	Oct. 08, 23	1 Year



## 5. POWER LINE CONDUCTED EMISSION TEST

### 5.1. Block Diagram of Test Setup



### 5.2. Test Standard

EN IEC 55015:2019/A11:2020

### 5.3. Power Line Conducted Emission Limit

Frequency	At mains terminals (dB $\mu$ V)	
	Quasi-peak Level	Average Level
9KHz ~ 50KHz	110	--
50KHz ~ 150KHz	90 ~ 80*	--
150KHz ~ 0.5MHz	66 ~ 56*	56 ~ 46*
0.5MHz ~ 2.51MHz	56	46
2.51MHz ~ 3.0MHz	73	63
3.0MHz ~ 5.0MHz	56	46
5.0MHz ~ 30MHz	60	50

1. At the transition frequency the lower limit applies.
2. \* decreasing linearly with logarithm of the frequency.

### 5.4. EUT Configuration on Test

The following equipments are installed PU5022 on conducted emission test to meet EN IEC 55015 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.

#### 5.4.1. EUT Information

Model Number : PU5022  
Serial Number : N/A  
Manufacturer : SHENZHEN PULUZ TECHNOLOGY LIMITED



## 5.5.Operating Condition of EUT

- 5.5.1.Setup the EUT and simulators as shown in Section 5.1.
- 5.5.2.Turn on the power of all equipments.
- 5.5.3.Let the EUT work in test mode (ON) and test it.

## 5.6.Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground and connected to the AC mains through a Line Impedance Stabilization Network (L.I.S.N.). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are checked to find out the maximum conducted emission according to the EN55015 regulations during conducted emission test. And the voltage probe had been used for the load terminals test according to the EN55015 standard.

The bandwidth of the test receiver is set at 9kHz. in 150kHz~30MHz and 200Hz bandwidth  
in 9kHz~150kHz.

The frequency range from 9kHz to 30MHz is checked.

All the test results are listed in Section 5.7. The scanning waveform is put in **Appendix I.**

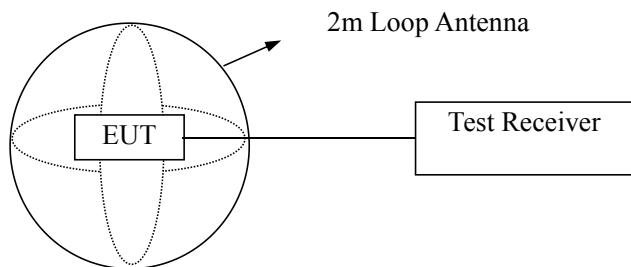
## 5.7.Test Result

**PASS.**



## 6. MAGNETIC TEST

### 6.1. Block Diagram of Test Setup



(EUT: Portable Fold LED Light Studio Box )

### 6.2. Test Standard

EN IEC 55015:2019/A11:2020

### 6.3. Magnetic Field Emission Limits

Frequency	Limits for loop diameter (dB $\mu$ A)
	2m
9KHz ~ 70KHz	88
70KHz ~ 150KHz	88 ~ 58*
150KHz ~ 2.2MHz	58 ~ 26*
2.2MHz ~ 3.0MHz	58
3.0MHz ~ 30MHz	22

1. At the transition frequency the lower limit applies.
2. \* decreasing linearly with logarithm of the frequency.

### 6.4. EUT Configuration on Test

The configuration of the EUT is same as Section 3.2..

### 6.5. Operating Condition of EUT

- 6.5.1. Setup the EUT as shown in Section 6.1.
- 6.5.2. Turn on the power of all equipments.
- 6.5.3. Let the EUT work in test mode (ON) and test it.



## 6.6.Test Procedure

The EUT is placed on a wood table in the center of a loop antenna. The induced current in the loop antenna is measured by means of a current probe and the test receiver. Three field components is checked by means of a coax switch.

The frequency range from 9kHz to 30MHz is investigated. The receiver is measured with the quasi-peak detector. For frequency band 9kHz to 150kHz, the bandwidth of the field strength meter is set at 200Hz. For frequency band 150kHz to 30MHz , the bandwidth is set at 9kHz.

All the test results are listed in Section 6.7. and all the scanning waveform is put in **Appendix II**.

## 6.7.Test Results

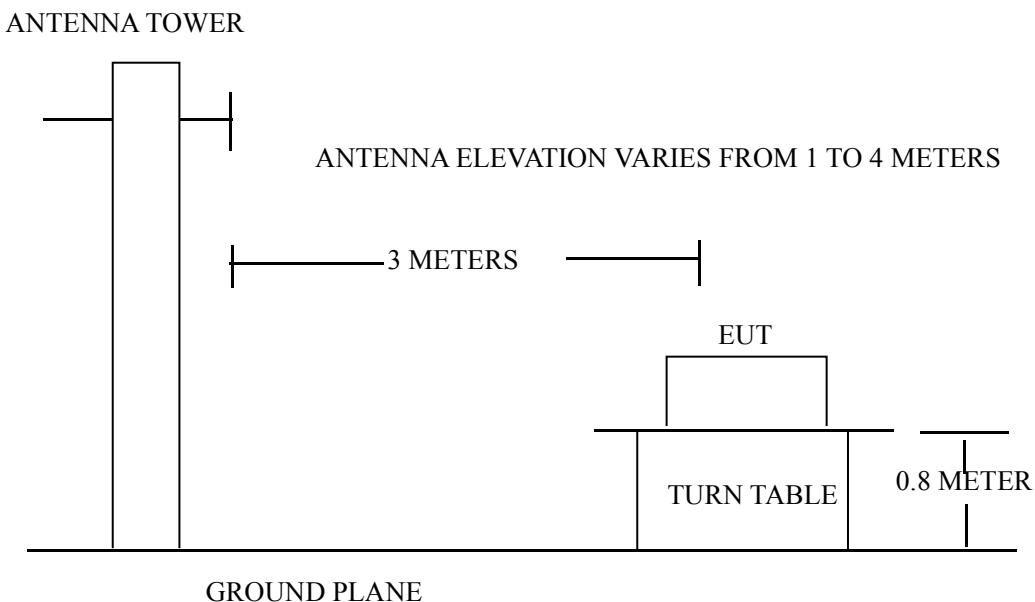
**PASS.**

The frequency range from 9kHz to 30MHz is investigated.  
As the peak value is too low against the limit, so the Quasi-peak value has been omitted.



## 7. RADIATED EMISSION TEST

### 7.1.Semi-Anechoic Chamber Setup Diagram



### 7.2.Test Standard

EN IEC 55015:2019/A11:2020

### 7.3.Radiated Emission Limit

All emanations from a computing devices or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMITS (dB $\mu$ V/m)
30 ~ 230	3	40
230 ~ 1000	3	47

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

(2) Distance refers to the distance in meters between the measuring instruments antenna and the closed point of any part of the EUT.

### 7.4.EUT Configuration on Test

The EN IEC 55015 regulations test method must be used to find the maximum emission during radiated emission test.



## 7.5.Operating Condition of EUT

- 7.5.1.Setup the EUT as shown on Section 7.1.
- 7.5.2.Turn on the power of all equipments.
- 7.5.3.Let the EUT work in test mode (ON) and test it.

## 7.6.Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on test.

The bandwidth setting on the test receiver is 120 kHz.

The EUT is tested in Semi-Anechoic Chamber. and all the scanning waveform is put in

### Appendix III.

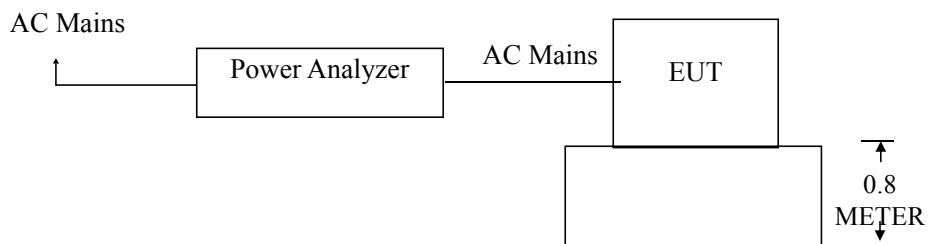
## 7.7.Test Results

**PASS.**



## 8. HARMONIC CURRENT EMISSION TEST

### 8.1. Block Diagram of Test Setup



(EUT: Portable Fold LED Light Studio Box )

### 8.2. Test Standard

EN IEC 61000-3-2:2019/A1:2021

Class C

### 8.3. Operating Condition of EUT

- 8.3.1. Setup the EUT as shown in Section 8.1.
- 8.3.2. Turn on the power of all equipments.
- 8.3.3. Let the EUT work in test mode (ON) and test it.

### 8.4. Test Procedure

The power cord of the EUT is connected to the output of the test system. Turn on the Power of the EUT and use the test system to test the harmonic current level.

### 8.5. Test Results

**PASS.**



## 9. VOLTAGE FLUCTUATIONS & FLICKER TEST

### 9.1. Block Diagram of Test Setup

Same as Section 8.1..

### 9.2. Test Standard

EN 61000-3-3:2020

### 9.3. Operating Condition of EUT

Same as Section 8.3.. The power cord of the EUT is connected to the output of the test system. Turn on the power of the EUT and use the test system to test.

#### Flicker Test Limit

Test items	Limits
Pst	1.0
dc	3.3%
dmax	4.0%
dt	Not exceed 3.3% for 500ms

### 9.4. Test Data

#### Flicker test Data

Model No.: PU5022

#### Test Mode: 1

Items	Reading	Limit
dmax	0.01	4.0%
dc	0.03	3.3%
dt	0.05	Not exceed 3.3% for 500ms
Pst	0.001	1.0

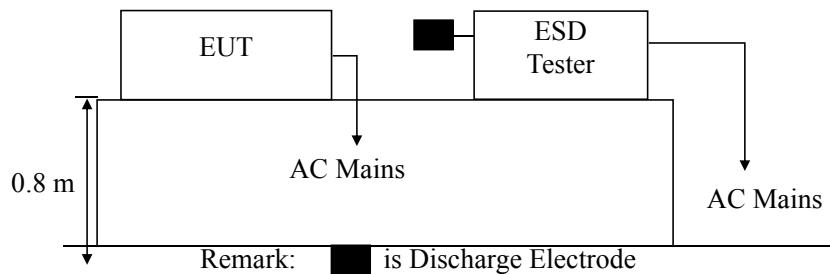
### 9.5. Test Results

**PASS.**



## 10.ELECTROSTATIC DISCHARGE TEST

### 10.1.Block Diagram of ESD Test Setup



### 10.2.Test Standard

EN IEC 61547:2020 (EN 61000-4-2:2020)  
Severity Level 3 for Air Discharge at 8KV  
Severity Level 2 for Contact Discharge at 4KV

### 10.3.Severity Levels and Performance Criterion

#### 10.3.1.Severity level

Level	Test Voltage Contact Discharge (KV)	Test Voltage Air Discharge (KV)
1.	2	2
2.	4	4
3.	6	8
4.	8	15
X.	Special	Special

#### 10.3.2.Performance criterion: B

### 10.4.EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.



## 10.5.Operating Condition of EUT

- 10.5.1.Setup the EUT as shown in Section 10.1.
- 10.5.2.Turn on the power of all equipments.
- 10.5.3.Let the EUT work in test mode (ON) and test it.

## 10.6.Test Procedure

### 10.6.1.Air Discharge:

This test is done on a non-conductive surfaces. The round discharge tip of the discharge electrode shall be approached as fast as possible to touch the EUT. After each discharge, the discharge electrode shall be removed from the EUT. The generator is then re-triggered for a new single discharge and repeated 10 times for each pre-selected test point. This procedure shall be repeated until all the air discharge completed.

### 10.6.2.Contact Discharge:

All the procedure shall be same as Section 10.6.1. except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

### 10.6.3.Indirect discharge for horizontal coupling plane

At least 20 single discharges shall be applied to the horizontal coupling plane, at points on each side of the EUT. The discharge electrode positions vertically at a distance of 0.1m from the EUT and with the discharge electrode touching the coupling plane.

### 10.6.4.Indirect discharge for vertical coupling plane

At least 20 single discharge shall be applied to the center of one vertical edge of the coupling plane. The coupling plane, of dimensions 0.5m X 0.5m, is placed parallel to, and positioned at a distance of 0.1m from the EUT. Discharges shall be applied to the coupling plane, with this plane in sufficient different positions that the four faces of the EUT are completely illuminated.

## 10.7.Test Results

**PASS.**



## Electrostatic Discharge Test Results

BST Testing (Shenzhen) Co.,Ltd.

Applicant	Shenzhen PULUZ Technology Limited	Test Date	: Nov.06 , 2023
EUT	Portable Fold LED Light Studio Box	Temperature	: 23 °C
M/N	PU5022	Humidity	: 52 %
Power Supply	/	Test Mode	: ON

Air Discharge: ±8KV                          For each point positive 10 times and negative 10 times discharge.

Contact Discharge: ±4KV

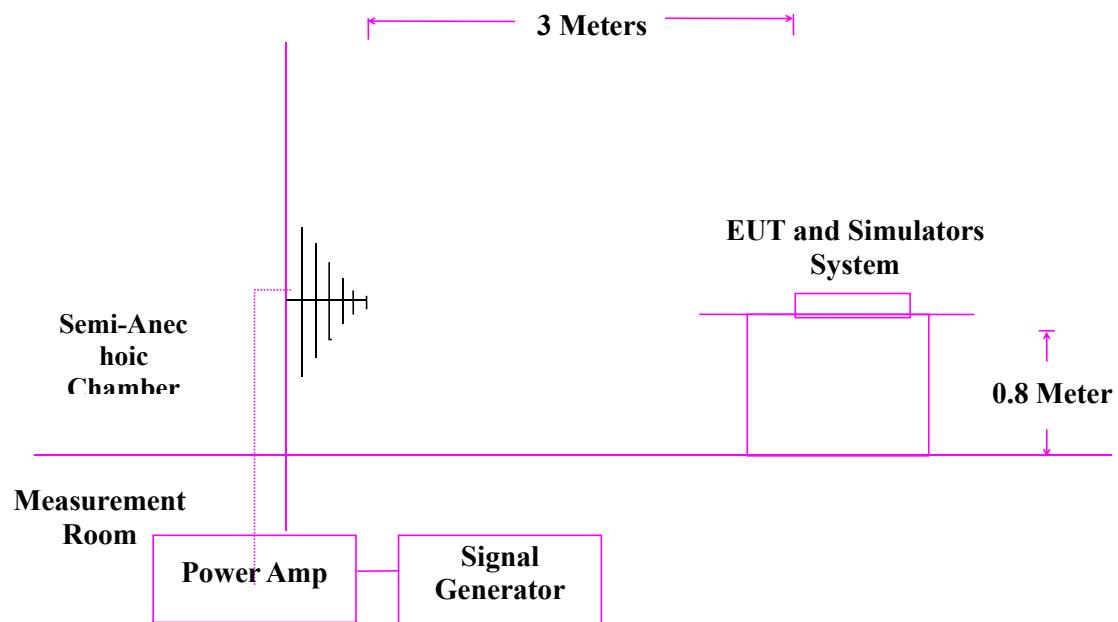
Location	Kind A-Air Discharge C-Contact Discharge	Result	
		A	C
Slots	A		PASS
Non-Conducted Enclosure	A		PASS
HCP	C		PASS
VCP	C		PASS

Discharge should be considered on Contact and Air and Horizontal Coupling Plane (HCP) and Vertical Coupling Plane (VCP).



## 11.RF FIELD STRENGTH SUSCEPTIBILITY TEST

### 11.1.R/S Test Setup



### 11.2.Test Standard

EN IEC 61547:2020 (EN IEC 61000-4-3:2020)  
Severity Level 2 at 3V / m

### 11.3.Severity Levels and Performance Criterion

#### 11.3.1.Severity level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X.	Special

#### 11.3.2.Performance criterion : A



## 11.4.EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.

## 11.5.Operating Condition of EUT

Setup the EUT as shown in Section 11.1.. The operating condition of EUT are listed in section 3.3.

## 11.6.Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above the ground. The EUT is set 3 meters away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarization of the antenna are set on test. Each of the four sides of EUT must be faced this transmitting antenna and measured individually.

In order to judge the EUT performance, a CCD camera is used to monitor the EUT. All the scanning conditions are as follows :

Condition of Test	Remarks
1. Fielded Strength	3 V/m (Severity Level 2)
2. Radiated Signal	Modulated
3. Scanning Frequency	80 - 1000 MHz, 1.4GHz-2.7GHz
4. Sweeping time of radiated	0.0015 decade/s
5. Dwell Time	1 Sec.

## 11.7.Test Results

**PASS.**

Please refer to the following page.



## RF Field Strength Susceptibility Test Results

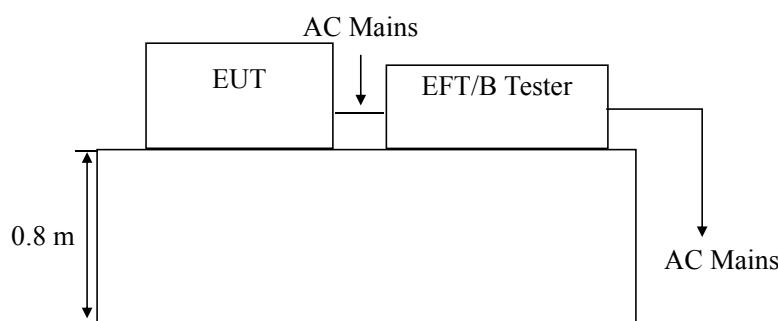
BST Testing (Shenzhen) Co.,Ltd.

Applicant :	Shenzhen PULUZ Technology Limited	Test Date :	Nov.06 , 2023
EUT :	Portable Fold LED Light Studio Box	Temperature :	23 °C
M/N :	PU5022	Humidity :	52 %
Power Supply :	/	Test Mode :	ON
Frequency Range :	80 MHz to 1000 MHz		
Modulation:	<input checked="" type="checkbox"/> AM <input type="checkbox"/> Pulse <input type="checkbox"/> none	1 KHz	80%
Criterion : A			
	Frequency Rang :	80-1000MHZ	
Steps	1%	1%	
	Horizontal	Vertical	
Front	Pass	Pass	
Right	Pass	Pass	
Rear	Pass	Pass	
Left	Pass	Pass	



## 12.ELECTRICAL FAST TRANSIENT/BURST TEST

### 12.1.EFT Test Setup



### 12.2.Test Standard

EN IEC 61547:2020 (EN 61000-4-4:2020)  
Severity Level 2 at 1KV

### 12.3.Severity Levels and Performance Criterion

#### 12.3.1.Severity level

Open Circuit Output Test Voltage ±10%		
Level	On Power Supply Lines	On I/O (Input/Output) Signal data and control lines
1.	0.5 KV	0.25 KV
2.	1 KV	0.5 KV
3.	2 KV	1 KV
4.	4 KV	2 KV
X	Special	Special

#### 12.3.2.Performance criterion : B

### 12.4.EUT Configuration on Test

The configuration of EUT are listed in Section 3.2..

### 12.5.Operating Condition of EUT

Setup the EUT as shown in Section 12.1.. The operating condition of EUT are listed in section 3.3.



## 12.6.Test Procedure

The EUT is put on the table which is 0.8 meter high above the ground. This reference ground plane shall project beyond the EUT by at least 0.1m on all sides and the minimum distance between the EUT and all other conductive structure, except the ground plane beneath the EUT, shall be more than 0.5m.

### 12.6.1.For input and output AC power ports:

The EUT is connected to the power mains by using a coupling device which couples the EFT interference signal to AC power lines. Both polarities of the test voltage should be applied during compliance test and the duration of the test is 2 mins.

### 12.6.2.For signal lines and control lines ports:

It's unnecessary to test.

### 12.6.3.For DC output line ports:

It's unnecessary to test.

## 12.7.Test Results

**PASS.**

Please refer to the following page.



## Electrical Fast Transient/Burst Test Results

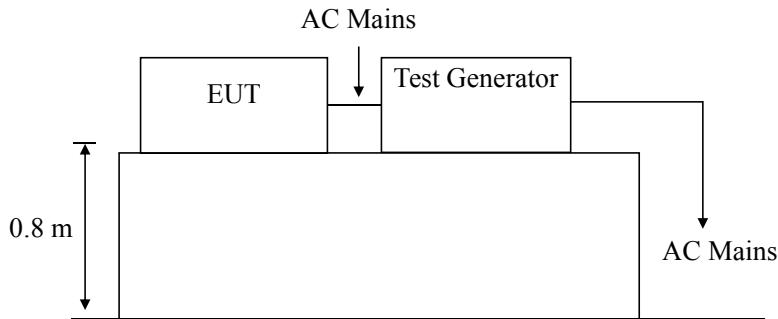
BST Testing (Shenzhen) Co.,Ltd.

Applicant	Shenzhen PULUZ Technology Limited				Test Date	Nov.06 , 2023			
EUT	PORTABLE FOLD LED LIGHT STUDIO BOX				Temperature	23 °C			
M/N	PU5022				Humidity	52 %			
Power Supply	/				Test Mode	ON			
Inject Place : AC Mains									
Inject Line	Voltage KV	Inject Time(s)	Inject Method	Results	Inject Line	Voltage KV	Inject Time(s )	Inject Method	Results
L	±1	120	Direct	A					
N	±1	120	Direct	A					
L N	±1	120	Direct	A					



## 13.SURGE TEST

### 13.1.Surge Test Setup



### 13.2.Test Standard

EN IEC 61547:2020 (EN 61000-4-5:2020)

Severity Level 2 for Line to Neutral at 0.5KV

### 13.3.Severity Levels and Performance Criterion

#### 13.3.1.Severity level

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

Performance criterion : **B**

### 13.4.EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.

### 13.5.Operating Condition of EUT

#### 13.5.1.Setup the EUT as shown in Section 13.1..

#### 13.5.2.Turn on the power of all equipments.

#### 13.5.3.Let the EUT work in test mode (ON) and test it..



### 13.6.Test Procedure

- 1) Set up the EUT and test generator as shown on Section 13.1
- 2) For line to line coupling mode, provide a 1KV 1.2/50us voltage surge (at open-circuit condition) and 8/20us current surge to EUT selected points.
- 3) At least 5 positive and 5 negative (polarity) tests with a maximum 1/min repetition rate are conducted during test.
- 4) Different phase angles are done individually.
- 5) Record the EUT operating situation during compliance test and decide the EUT immunity criterion for above each test.

### 13.7.Test Results

**PASS.**

Please refer to the following page.



## Surge Immunity Test Results

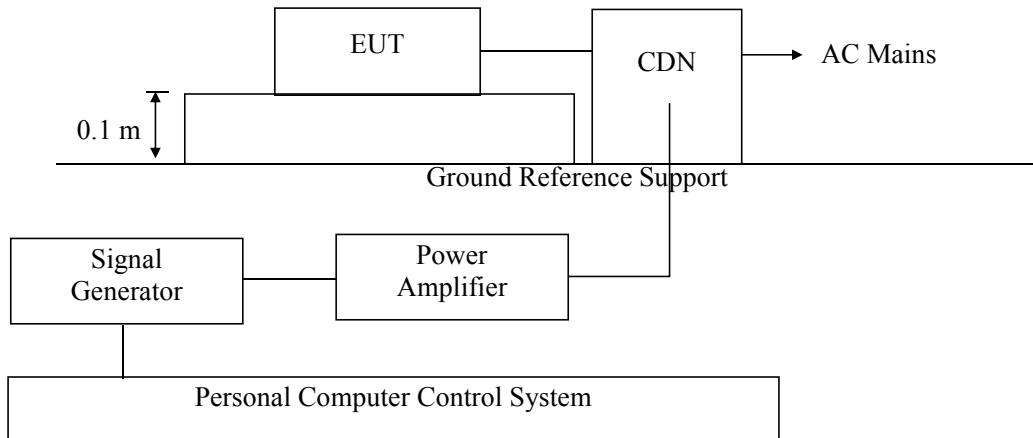
BST Testing (Shenzhen) Co.,Ltd.

Applicant :	Shenzhen PULUZ Technology Limited			Test Date :	Nov.06 , 2023
EUT :	PORTABLE FOLD LED LIGHT STUDIO BOX			Temperature :	23 °C
M/N :	PU5022			Humidity :	52 %
Power Supply :	/			Test Mode :	ON
Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage (KV)	Result
L-N	+	0	5	0.5	A
	+	90	5	0.5	A
	+	180	5	0.5	A
	+	270	5	0.5	A
	-	0	5	1.0	N/A
	-	90	5	1.0	N/A
	-	180	5	1.0	N/A
	-	270	5	1.0	N/A



## 14.INJECTED CURRENTS SUSCEPTIBILITY TEST

### 14.1.Block Diagram of Test AC Mains Setup



### 14.2.Test Standard

EN IEC 61547:2020 (EN 61000-4-6:2020)  
Severity Level 2 at 3 V (rms), 0.15MHz ~ 80MHz

### 14.3.Severity Levels and Performance Criterion

#### 14.3.1.Severity level

Level	Field Strength V/m
1.	1
2.	3
3.	10
X	Special

#### 14.3.2.Performance criterion: A

### 14.4.EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.

### 14.5.Operating Condition of EUT

Setup the EUT as shown in Section 14.1.. The operating condition of EUT are listed in section 3.3.



## 14.6. Test Procedure

- 1) Set up the EUT, CDN and test generators as shown on Section 14.1.
- 2) Let the EUT work in test mode and test it.
- 3) The EUT are placed on an insulating support 0.8m high above a ground reference plane. CDN (coupling and decoupling device) is placed on the ground plane about 0.3m from EUT. Cables between CDN and EUT are as short as possible, and their height above the ground reference plane shall be between 30 and 50 mm (where possible).
- 4) The disturbance signal described below is injected to EUT through CDN.
- 5) The EUT operates within its operational mode(s) under intended climatic conditions after power on.
- 6) The frequency range is swept from 150KHz to 80MHz using 3V signal level, and with the disturbance signal 80% amplitude modulated with a 1KHz sine wave.
- 7) The rate of sweep shall not exceed  $1.5 \times 10^{-3}$  decades/s. Where the frequency is swept incrementally, the step size shall not exceed 1% of the start and thereafter 1% of the preceding frequency value.
- 8) Recording the EUT operating situation during compliance testing and decide the EUT immunity criterion.

## 14.7. Test Results

**PASS.**

Please refer to the following page.



## Injected Currents Susceptibility Test Results

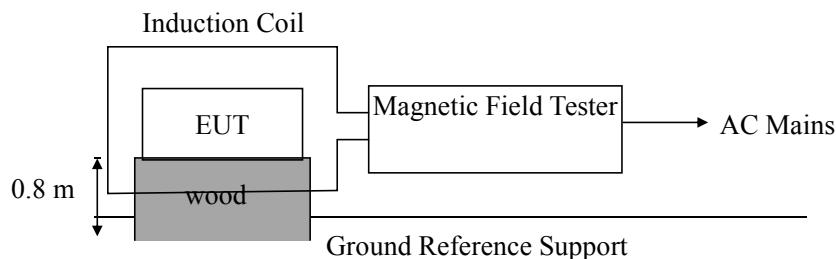
BST Testing (Shenzhen) Co.,Ltd.

Applicant :	Shenzhen PULUZ Technology Limited		Test Date :	Nov.06 , 2023	
EUT :	PORTABLE FOLD LED LIGHT STUDIO BOX		Temperature :	23 °C	
M/N :	PU5022		Humidity :	52 %	
Power Supply :	/		Test Mode :	ON	
Frequency Range (MHz)	Injected Position	Strength		Criterion	Result
0.15 ~ 20	AC Line	3V(rms), Unmodulated		A	A
20 ~ 80	AC Line	3V(rms), Unmodulated		A	A
			Note:		



## 15.MAGNETIC FIELD IMMUNITY TEST

### 15.1.Block Diagram of Test Setup



### 15.2.Test Standard

EN IEC 61547:2020 (EN 61000-4-8:2020)  
Severity Level 2 at 3A/m

### 15.3.Severity Levels and Performance Criterion

#### 15.3.1.Severity level

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

#### 15.3.2.Performance criterion : A

### 15.4.EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.

### 15.5.Operating Condition of EUT

#### 15.5.1.Setup the EUT as shown in Section 15.1

#### 15.5.2.Turn on the power of all equipments.

#### 15.5.3.Let the EUT work in test mode (ON) and test it.



## 15.6.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 15.1. The induction coil shall then be rotated by 90°in order to expose the EUT to the test field with different orientations.

## 15.7.Test Results

**PASS.**

Please refer to the following page.



BST Testing (Shenzhen) Co.,Ltd.

Report No.: XD252238831111323ER

## Magnetic Field Immunity Test Results

BST Testing (Shenzhen) Co.,Ltd.

Applicant :	Shenzhen PULUZ Technology Limited	Test Date :	Nov.06 , 2023
EUT :	PORTABLE FOLD LED LIGHT STUDIO BOX	Temperature :	23 °C
M/N :	PU5022	Humidity :	52 %
Power Supply :	/	Test Mode :	ON

Test Mode: ON

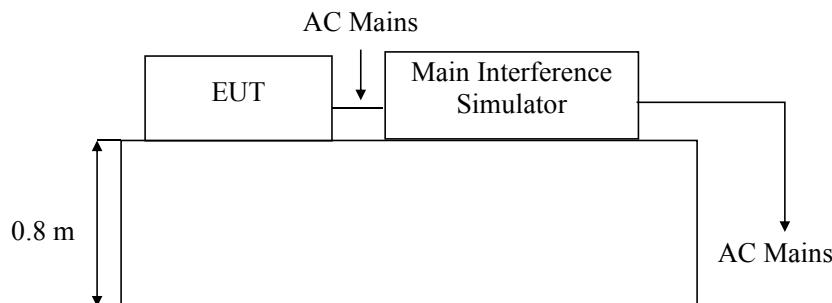
Test Level	Testing Duration	Coil Orientation	Criterion	Result
3A/M	5 mins	Horizontal	A	PASS
3A/M	5 mins	Vertical	A	PASS

Remark:	Test Equipment : Magnetic Field Tester MAG100.1



## 16.VOLTAGE DIPS AND INTERRUPTIONS TEST

### 16.1.Voltage Dips and Interruptions Test Setup



Remark: Combination wave generator and decoupling network are included in test generator.

### 16.2.Test Standard

EN IEC 61547:2020(EN IEC 61000-4-11:2020)

### 16.3.Severity Levels and Performance Criterion

#### 16.3.1.Severity level

Test Level %UT	Voltage dip and short interruptions %UT	Duration (in period)
0	100	250p
40	60	5p
70	30	0.5p

#### 16.3.2.Performance criterion : C&B

### 16.4.EUT Configuration on Test

The configuration of EUT are listed in Section 3.2.

### 16.5.Operating Condition of EUT

#### 16.5.1.Setup the EUT as shown in Section 16.1..

#### 16.5.2.Turn on the power of all equipments.

#### 16.5.3.Let the EUT work in test mode (ON) and test it.



## 16.6.Test Procedure

- 1) Set up the EUT and test generator as shown on Section 16.1.
- 2) The interruptions is introduced at selected phase angles with specified duration.
- 3) Record any degradation of performance.

## 16.7.Test Result

**PASS.**

Please refer to the following page.



## Voltage Dips And Interruptions Test Results

BST Testing (Shenzhen) Co.,Ltd.

Applicant :	Shenzhen PULUZ Technology Limited	Test Date :	Nov.06 , 2023
EUT :	PORTABLE FOLD LED LIGHT STUDIO BOX	Temperature :	23 °C
M/N :	PU5022	Humidity :	52 %
Power Supply :	/	Test Mode :	ON

Test Mode: ON

Test Level % $U_T$	Voltage Dips & Short Interruptions % $U_T$	Duration (in period)	Phase Angle	Criterion	Result
70	30	10P	90°	C	A
0	100	0.5P	180°	B	A

Remark:  $U_T$  is the rated voltage for the equipment.Test Equipment :  
Main Interference Simulator  
(HEAFELY PLINE1610)

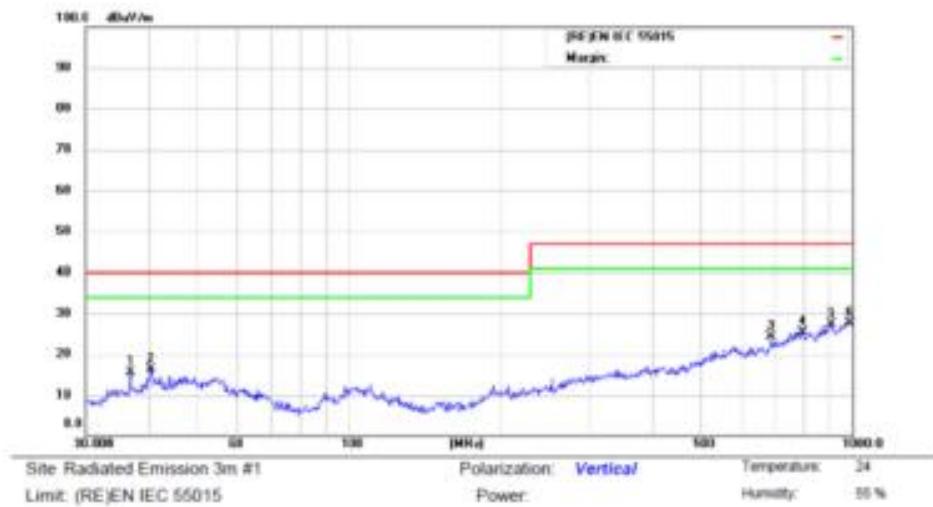
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BST Testing (Shenzhen) Co.,Ltd.

Report No.: XD252238831111323ER

## APPENDIX I



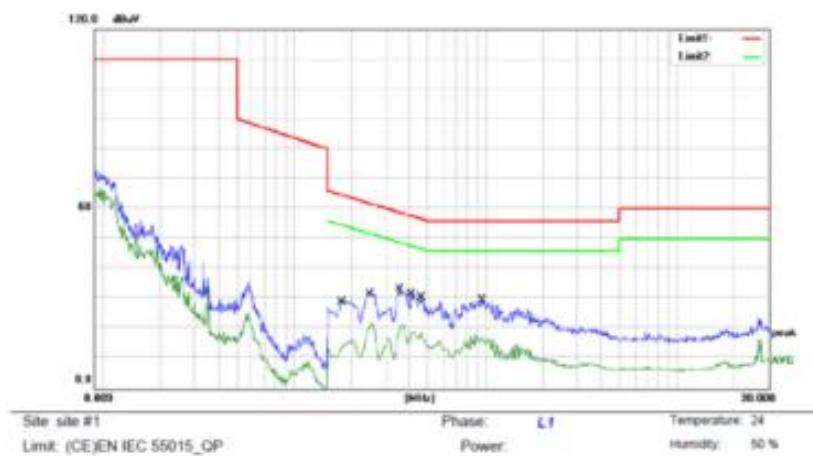
EUT:Portable Fold LED Light Studio Box

MN: ON

Mode:PU5022

Note :/

No.	Frequency (MHz)	Reading (dBuv)	Correct Factor(dB)	Result (dBuv/m)	Limit (dBuv/m)	Over (dB)	Remark
1	36.9953	39.25	-23.41	15.70	40.00	-24.21	QF
2	40.1425	38.20	-22.20	16.30	40.00	-23.16	QF
3	699.2541	36.71	-9.25	24.25	40.00	-22.70	QF
4	793.5178	35.29	-7.62	25.30	40.00	-21.36	QF
5	906.3587	35.44	-7.61	27.01	40.00	-19.14	QF
6	986.2570	34.61	-6.94	27.07	40.00	-19.41	QF



EUT:Portable Fold LED Light Studio Box

MN: ON

Mode:PU5022

Note :/

No.	Frequency (MHz)	Reading (dB <sub>uv</sub> )	Correct Factor(dB)	Result (dB <sub>uv</sub> )	Limit (dB <sub>uv</sub> )	Remark
1	0.1780	18.90	10.09	28.99	64.59	QF
2	0.1780	4.20	10.09	14.29	54.59	AVG
3	0.2500	21.60	10.09	31.69	61.76	QF
4	0.2500	10.90	10.09	20.99	51.74	AVG
5	0.3540	23.10	10.08	33.18	58.84	QF
6	0.3540	9.50	10.08	19.58	48.87	AVG
7	0.4100	21.40	10.08	31.48	57.84	QF
8	0.4100	8.70	10.08	18.78	47.54	AVG
9	0.4590	20.20	10.07	30.27	56.41	QF
10	0.4590	8.10	10.07	18.17	46.33	AVG
11	0.9590	19.50	10.07	29.50	56.22	QF
12	0.9590	7.10	10.07	17.10	46.00	AVG



## General Appearance of the EUT



\*\*\*End of report\*\*\*