

TEST REPORT

Product Name : Flashlight
Model Number : I1R2 PRO

Prepared for : Dongguan Olight E-Commerce Technology Co., Ltd.
Address : 4th Floor, Building 4, Kegou Industrial Park, No 6 Zhongnan Road, Changan Town, Dongguan City ,Guangdong, China

Prepared by : EMTEK(DONGGUAN) CO., LTD.
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Report Number : EDG2110280193E00301R
Date(s) of Tests : October 28, 2021 to November 09, 2021
Date of issue : November 09, 2021



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TEST REPORT VERIFICATION

Applicant : Dongguan Olight E-Commerce Technology Co., Ltd.
Manufacturer : Dongguan Olight E-Commerce Technology Co., Ltd.
EUT : Flashlight
Model No. : I1R2 PRO
Rating : DC 3.7V 0.35A

Measurement Procedure Used:

EN IEC 55015:2019+A11:2020

EN 61547: 2009

(IEC 61000-4-2: 2008, IEC 61000-4-3: 2006+A1: 2007+A2: 2010)

The device described above is tested by EMTEK (DONGGUAN) CO., LTD. and EMTEK(SHENZHEN) CO., LTD to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and EMTEK (DONGGUAN) CO., LTD. is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliant with the EN IEC 55015 and EN 61547 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of EMTEK (DONGGUAN) CO., LTD.

Date of Test :

October 28, 2021 to November 09, 2021

Prepared by :

Galen Xiao

Galen Xiao / Editor

Tim Dong

Reviewer :

Tim Dong / Supervisor

Approved & Authorized Signer :



Sam Lv / Manager

Modified Information

Version	Summary	Revision Date	Report No.
	Original Report	/	EDG2110280193E00301R



1. DESCRIPTION OF STANDARDS AND RESULTS

EMISSION			
Description of Test Item	Standard	Limits	Results
Disturbance Voltage at the Mains Terminal	EN IEC 55015:2019+A11:2020	Table 1	N/A
Radiated Disturbance	EN IEC 55015:2019+A11:2020	Table 10	Pass
Magnetic Field Emission Measurement	EN IEC 55015:2019+A11:2020	Table 8	Pass
IMMUNITY			
Description of Test Item	Basic Standard	Performance Criteria	Results
Electrostatic Discharge (ESD)	IEC 61000-4-2: 2008	B	Pass
RF Field Strength Susceptibility (R/S)	IEC 61000-4-3: 2006+A1: 2007+A2: 2010	A	Pass
Electro Fast Transient (EFT)	IEC 61000-4-4: 2012	B	N/A
Surge (Input AC Power Port)	IEC 61000-4-5: 2014+A1:2017	C	N/A
Radio-Frequency, Continuous Conducted Disturbance	IEC 61000-4-6: 2013	A	N/A
Power Frequency Magnetic Field	IEC 61000-4-8: 2009	A	N/A
Voltage Interruptions, 100%	IEC 61000-4-11: 2020	B	N/A
Voltage Dips, 30% Reduction		C	
Note: N/A is an abbreviation for Not Applicable.			

2. GENERAL INFORMATION

2.1 Description of Device (EUT)

EUT	:	Flashlight
Model Number	:	I1R2 PRO
Trade Mark	:	OLIGHT
Power Supply for Test	:	DC 5V, Power from battery
Operate mode	:	ON, Charging
Applicant	:	Dongguan Olight E-Commerce Technology Co., Ltd.
Address	:	4th Floor, Building 4, Kegu Industrial Park, No 6 Zhongnan Road, Changan Town, Dongguan City ,Guangdong, China
Manufacturer	:	Dongguan Olight E-Commerce Technology Co., Ltd.
Address	:	4th Floor, Building 4, Kegu Industrial Park, No 6 Zhongnan Road, Changan Town, Dongguan City ,Guangdong, China
Date of sample received	:	October 28, 2021
Date of Test	:	October 28, 2021 to November 09, 2021

2.2 Description of Support Device

Adapter : Model : YSV6-0501000
Input: AC 100-240V, 50/60Hz
Output: DC 5V, 1000mA

2.3 Description of Test Facility

Site Description
EMC Lab. : Accredited by CNAS, 2020.08.27
The certificate is valid until 2024.07.05
The Laboratory has been assessed and proved to be in
compliance with CNAS/CL01:2018
The Certificate Registration Number is L3150

Name of Firm : EMTEK(DONGGUAN) CO., LTD.
Site Location : -1&2/F., Building 2, Zone A, Zhongda Marine Biotechnology
Research and Development Base, No.9, Xincheng
Avenue, Songshanhu High-technology Industrial Development
Zone, Dongguan, Guangdong, China

2.3 Measurement Uncertainty

Test Item	Uncertainty
Conducted Emission	: 2.08dB(9K-150KHz) 2.42dB(150K-30MHz)
Radiated Emission (3m Chamber)	: 3.32dB (30M~1GHz Polarize: H) 3.34dB (30M~1GHz Polarize: V)
Uncertainty for Flicker test	: 0.07%
Uncertainty for Harmonic test	: 1.8%
Uncertainty for test site temperature and humidity	: 0.6°C 4%

3. MEASURING DEVICES AND TEST EQUIPMENT

3.1 For Power Line Conducted Emission

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☐	Test Receiver	Rohde& Schwarz	ESCI	100137	2021/5/20	1Year
☐	L.I.S.N.	Rohde& Schwarz	ENV216	101209	2021/5/20	1Year
☐	RF Switching Unit	CDS	RSU-M2	38401	2021/5/20	1Year

3.2 For Radiated Emission Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒	EMI Test Receiver	Rohde & Schwarz	ESCI	101415	2021/5/20	1Year
☒	Bilog Antenna	Schwarzbeck	VULB9163	141	2021/5/23	1Year
☒	Power Amplifier	HP	8447F	OPH64	2021/5/20	1Year
☒	Cable	N/A	CIL02	A0783566	2021/5/20	1Year
☒	Cable	N/A	RG 223/U	525178	2021/5/20	1Year
☒	Cable	N/A	RG 223/U	525179	2021/5/20	1Year

3.3 For Magnetic Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒	EMI Test Receiver	Rohde & Schwarz	ESCI	101384	2021/5/16	1Year
☒	Loop antenna	Laplace	RF300	8006	2021/6/30	1Year

3.4 For Harmonic Current / Flicker Measurement

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☐	AC Frequency Conversion Power	Teseq	100-CTS-230-TE SQ	1804A03259	2021/5/21	1 Year
☐	Power Frequency Test System	Teseq	5001IX-CTS-400-SCH	1805A03008	2021/5/21	1 Year

3.5 For Electrostatic Discharge Test

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒	ESD Tester	TESEQ	NSG 437	409	2021/5/24	1 Year

3.6 For RF Strength Susceptibility Test

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☒	Power Amplifier	MILMEGA	AS0102-55	1018770	2021/5/16	1 Year
☒	50ohm Diode Power Sensor	BOONTON	51011EMC	34236	2021/5/16	1 Year
☒	RF Power Meter. Dual Channel	BOONTON	4232A	10539	2021/5/16	1 Year
☒	Log.-Per. Antenna	SCHWARZBECK	VULP 9118E	811	N/A	N/A
☒	Signal Generator	Agilent	N5181A	MY50145187	2021/5/16	1 Year
☒	50ohm Diode Power Sensor	BOONTON	51011EMC	36164	2021/5/16	1 Year
☒	Broad-Band Horn Antenna	SCHWARZBECK	STLP 9149	9149-227	N/A	N/A
☒	Field Strength Meter	DARE	RSS1006A	10I00037SNO 22	2021/5/16	1 Year
☒	Multi-function interface system	DARE	CTR1009B	12I00250SNO 72	N/A	N/A
☒	Automatic switch group	DARE	RSW1004A	N/A	N/A	N/A
☒	Power Amplifier	MILMEGA	AS1860-50	1059346	2021/5/16	1 Year
☒	Power Amplifier	MILMEGA	80RF1000-175	1059345	2021/5/16	1 Year
☒	Directional Coupler	MILMEGA	DC6180AM1	0340463	2021/5/16	1 Year
☒	Audio Analyzer	R&S	UPV	101473	2021/5/16	1 Year
☒	Audio Test System	AUDIO PRECISION	ATS-1	41100	2021/6/30	1 Year

3.7 For Electrical Fast Transient/Burst Immunity Test

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☐	Three in one	HTEC	HCOMPACT7	190305	2021/5/20	1Year

3.8 For Surge Test

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☐	Three in one	HTEC	HCOMPACT7	190305	2021/5/20	1Year

3.9 For Injected Currents Susceptibility Test

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☐	signal source	Rohde& Schwarz	SMB100A	103042	2021/5/24	1 Year
☐	Single channel power meter	Rohde& Schwarz	NRVS	101761	2021/5/24	1 Year
☐	Attenuator	AR-WORLDWIDE	6dB/50FH-006-10 0	324011	2021/5/24	1 Year

☐	CDN	SKET	CDN M2+M3	204303	2021/5/24	1 Year
☐	Power amplifier	Rohde& Schwarz	BSA 1515-25	097483	2021/5/24	1 Year

3.10 For Voltage Dips and Interruptions Test

Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
☐	Three in one	HTEC	HCOMPACT7	190305	2021/5/20	1Year
☐	Dips module	HTEC	HV1P16T	190302	2021/5/20	1Year



4. RADIATED EMISSION MEASUREMENT

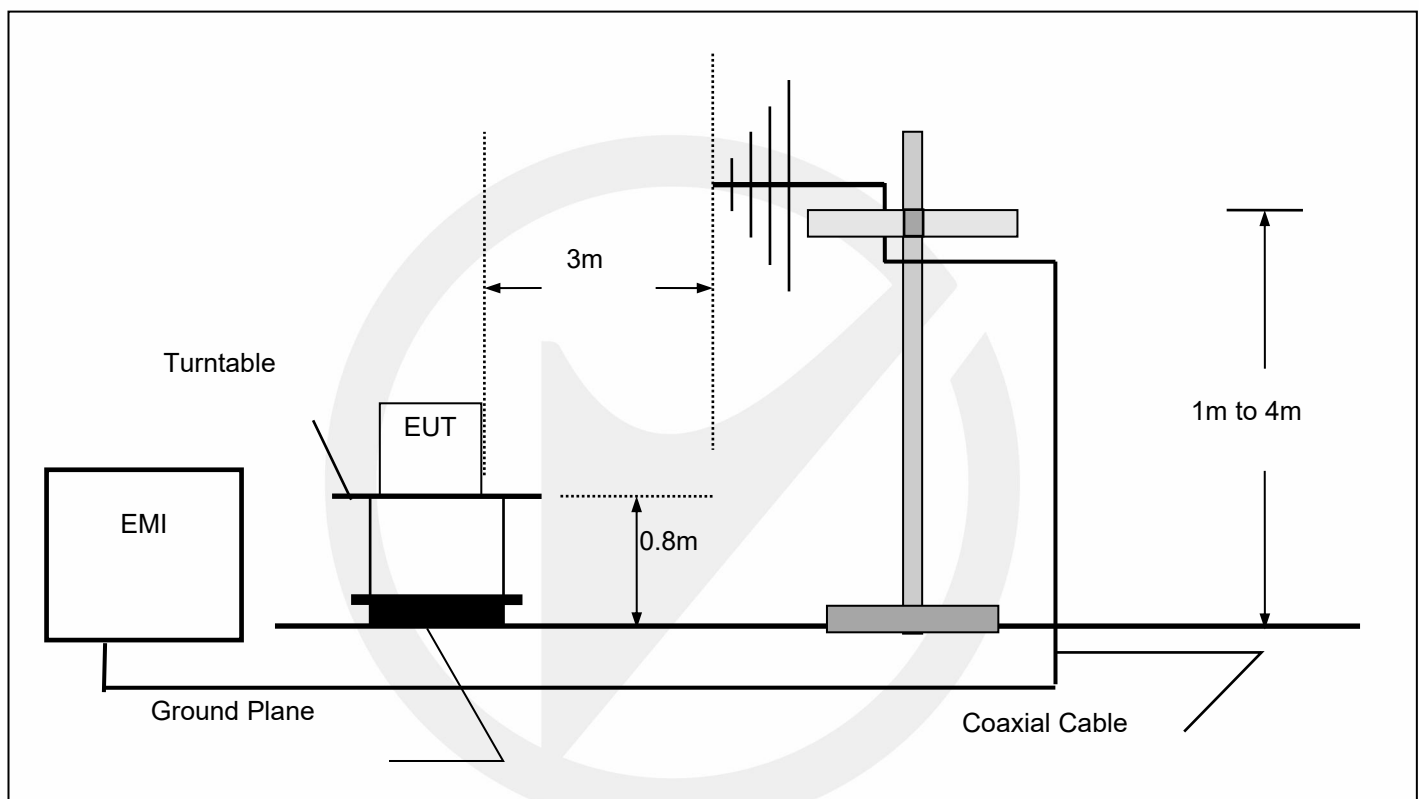
4.1 Block Diagram of Test

4.1.1 Block diagram of connection between the EUT and simulators



(EUT: Flashlight)

4.1.2 Block diagram of test setup (In chamber)



(EUT: Flashlight)

4.2 Measuring Standard

EN IEC 55015:2019+A11:2020

4.3 Radiated Emission Limits

All emanations from a device or system shall not exceed the level of field strengths specified below:

FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT (DbmV/m)
30 ~ 230	3	40
230 ~ 1000	3	47

Note: (1) The smaller limit shall apply at the combination point between two frequency bands.
(2) Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the EUT.

4.4 EUT Configuration on Test

The EN55015 regulations test method must be used to find the maximum emission during radiated emission measurement.

EUT : Flashlight
Model No. : I1R2 PRO

4.5 Operating Condition of EUT

Step 1: Turn on the power.

Step 2: Let the EUT work in test mode (ON, Charging) and measure it.

4.6 Test Procedure

The EUT is placed on a turn table which is 0.8 meter high above the 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 be moved up and down from 1 to 4 meter to find out the maximum emission level. Bilog antenna (calibrated by Dipole Antenna) is used as a receiving antenna. Both horizontal and vertical polarizations of the antenna are set on test.

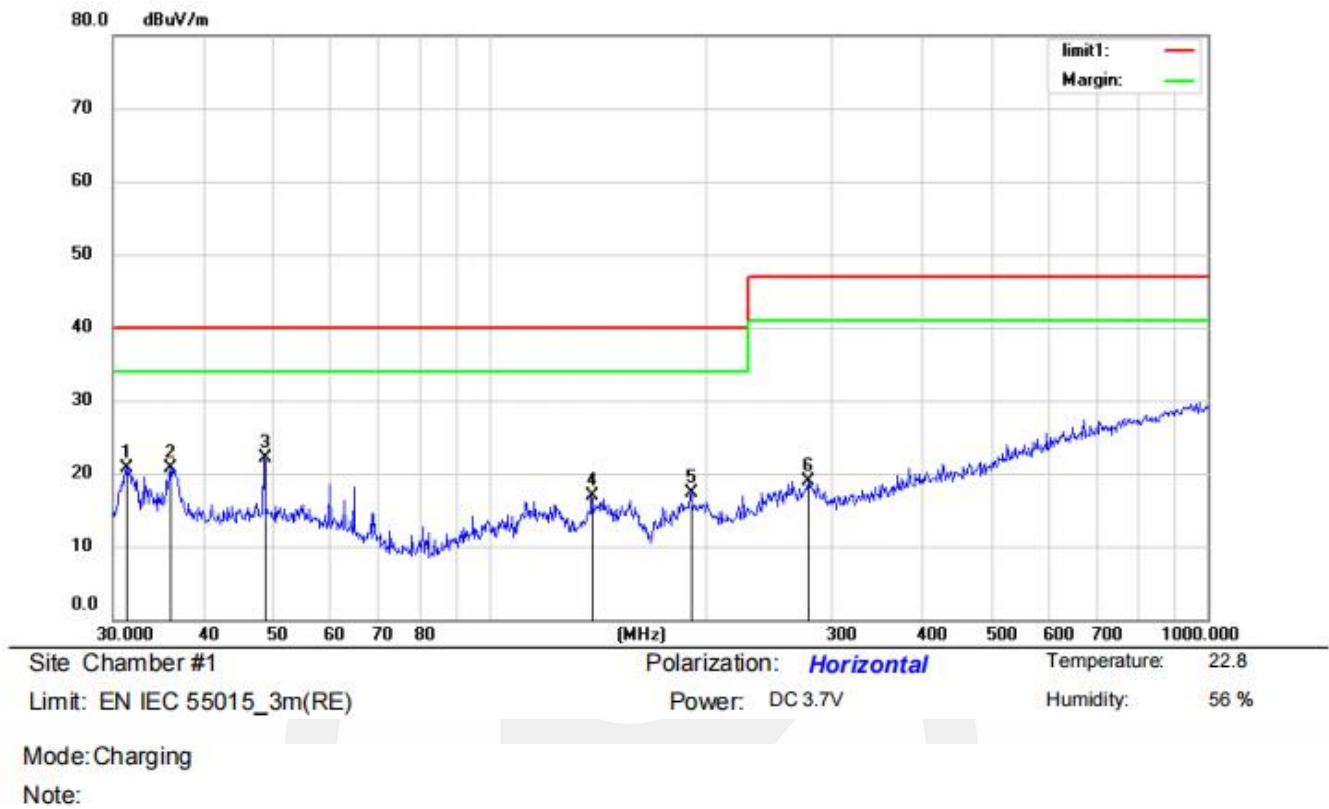
The bandwidth of the Receiver (ESCI) is set at 120kHz.

4.7 Test Results

PASS.

The frequency range from 30MHz to 1000MHz is investigated.

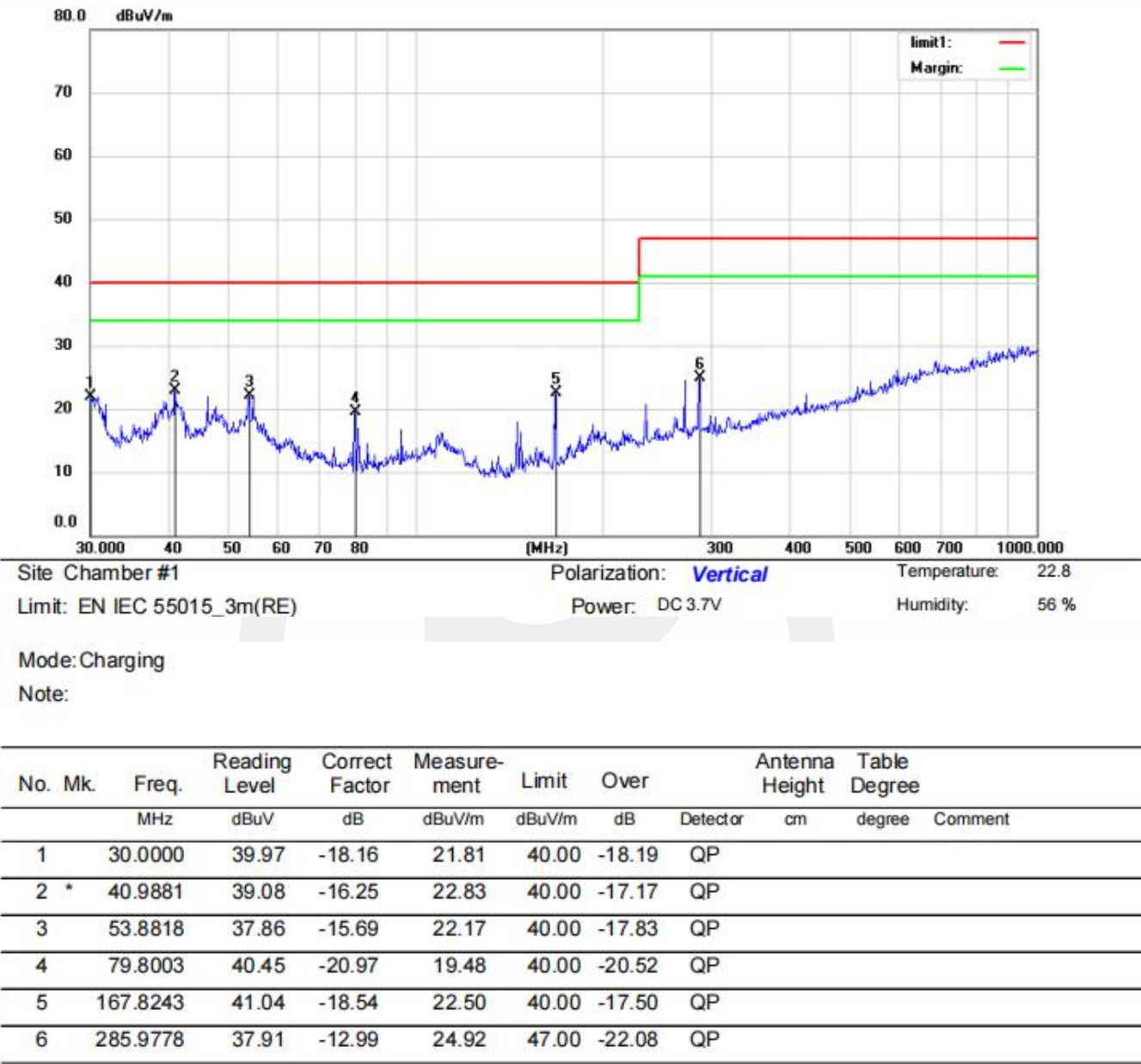
The worst test data are attached in the following pages.



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		31.3992	38.69	-18.08	20.61	40.00	-19.39	QP		
2		36.0007	38.28	-17.56	20.72	40.00	-19.28	QP		
3	*	48.6720	37.44	-15.36	22.08	40.00	-17.92	QP		
4		138.8735	37.19	-20.34	16.85	40.00	-23.15	QP		
5		191.0738	33.94	-16.54	17.40	40.00	-22.60	QP		
6		278.0668	32.14	-13.17	18.97	47.00	-28.03	QP		

*:Maximum data x:Over limit !:over margin

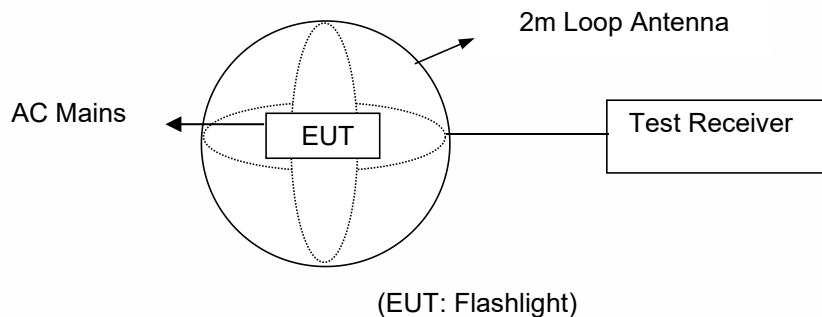
Operator: Ccyf



*:Maximum data x:Over limit !:over margin Operator: Ccyf

5. MAGNETIC FIELD EMISSION MEASUREMENT

5.1 Block Diagram of Test Setup



5.2 Magnetic Field Emission Measurement Standard and Limits

5.2.1 Test Standard

EN IEC 55015:2019+A11:2020

5.2.2 Test Limits

Frequency	Limits for loop diameter (dB μ A)
	2m
9KHz ~ 70KHz	88
70KHz ~ 150KHz	88 ~ 53*
150KHz ~ 3.0MHz	53 ~ 22*
3.0MHz ~ 30MHz	22

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

5.3 EUT Configuration on Measurement

The configuration of the EUT is same as Section 5.1.

5.4 Operating Condition of EUT

Same as radiated Emission which is listed in Section 4.5.

5.5 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 are checked by means of a coaxial 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 (test receiver ESCI) is set at 200Hz. For frequency band 150KHz to 30MHz, the bandwidth is set at 9KHz.

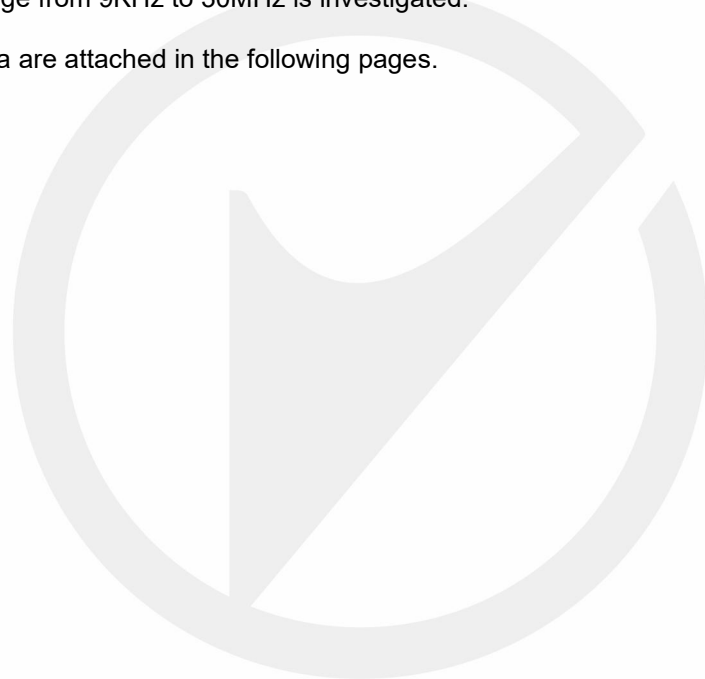
5.6 Test Results

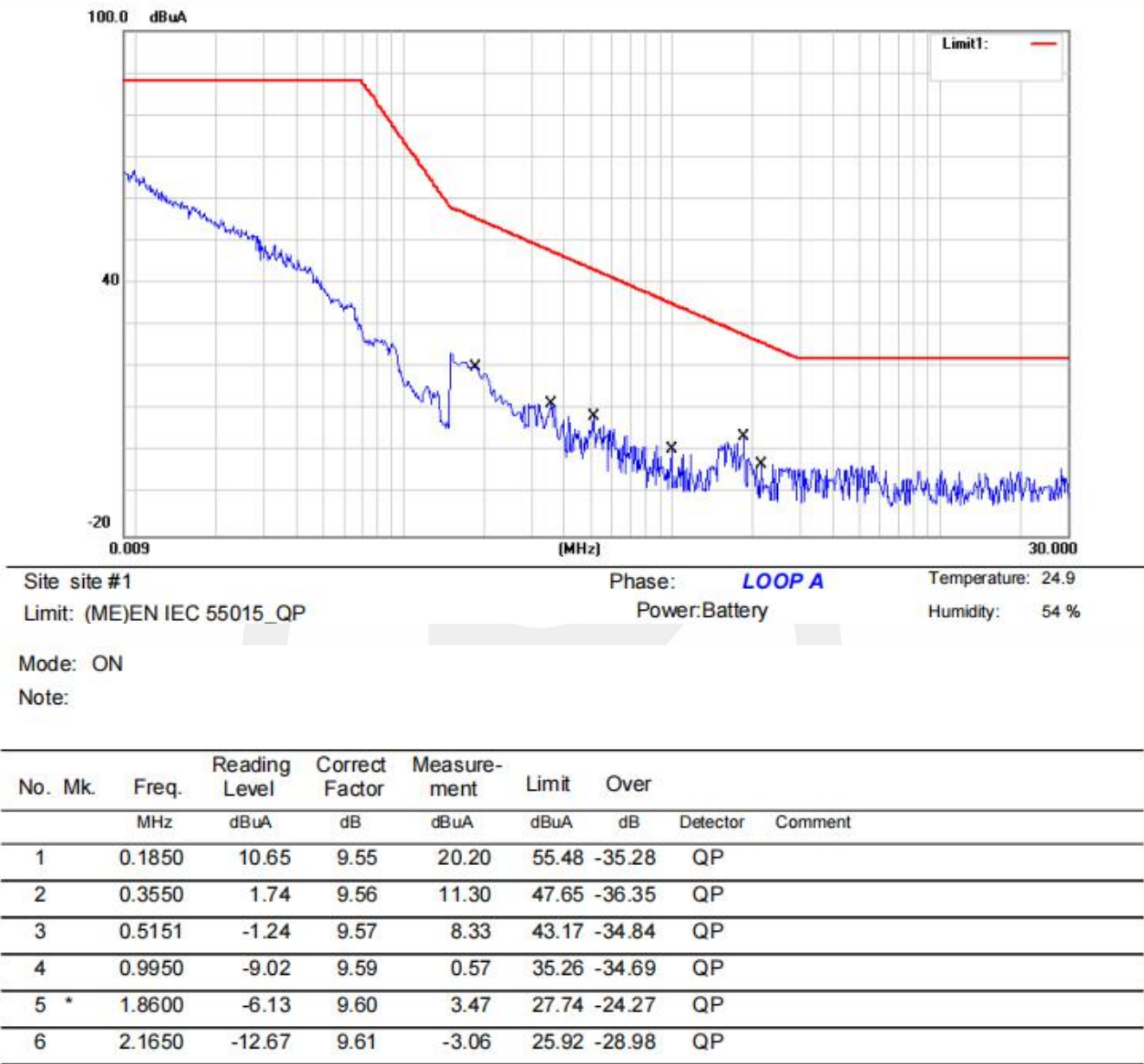
PASS.

These test result outsourced to EMTEK (SHENZHEN) CO., LTD

The frequency range from 9KHz to 30MHz is investigated.

The worst test data are attached in the following pages.





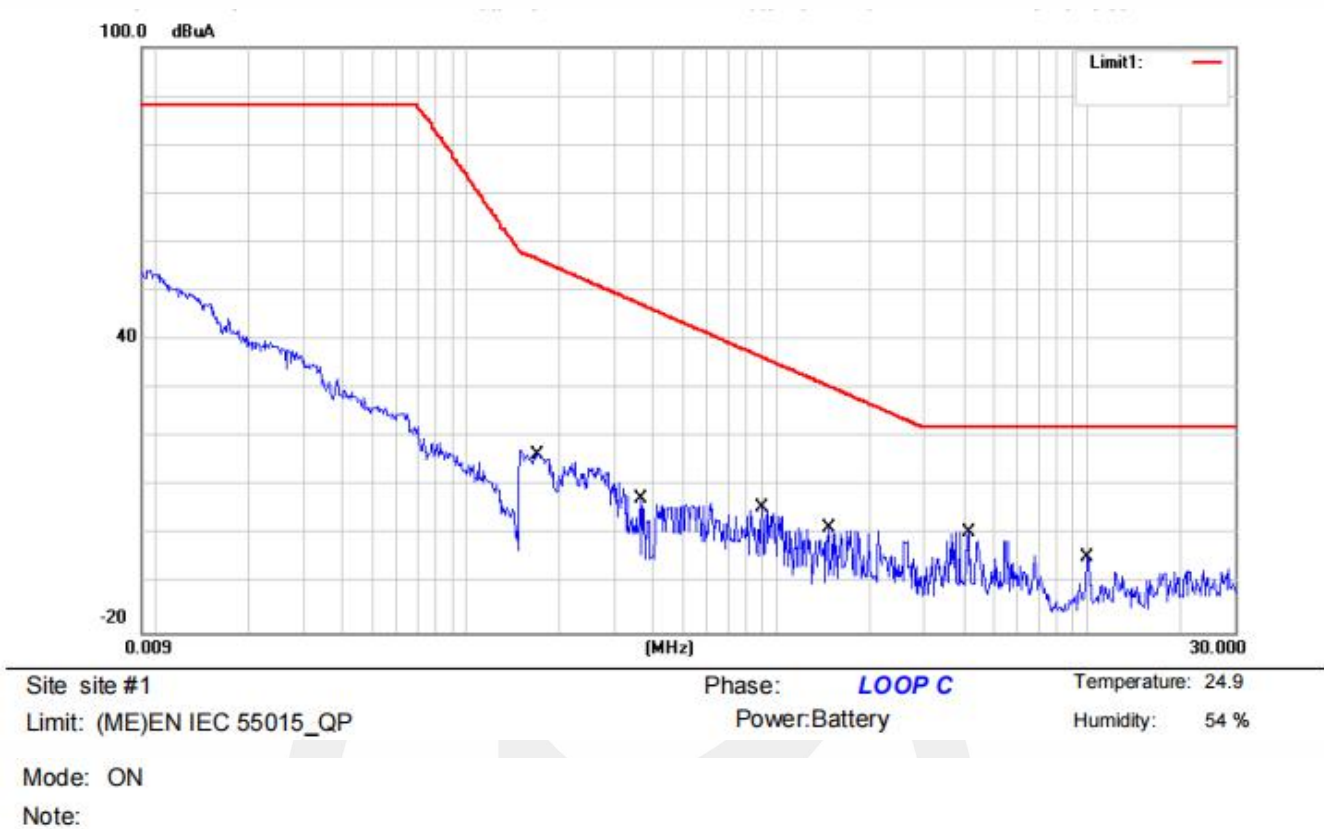
*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:



Site site #1 Phase: **LOOP B** Temperature: 24.9
 Limit: (ME)EN IEC 55015_QP Power: Battery Humidity: 54 %
 Mode: ON
 Note:

No.	Mk.	Freq. MHz	Reading Level dBuA	Correct Factor dB	Measure- ment dBuA	Limit dBuA	Over dB	Detector	Comment
1		0.1800	12.09	9.55	21.64	55.81	-34.17	QP	
2		0.4751	4.93	9.57	14.50	44.15	-29.65	QP	
3		1.0150	-0.35	9.59	9.24	35.02	-25.78	QP	
4		1.3750	-1.49	9.59	8.10	31.38	-23.28	QP	
5		11.7250	-14.53	9.82	-4.71	22.00	-26.71	QP	
6	*	16.4500	-9.40	9.98	0.58	22.00	-21.42	QP	

*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

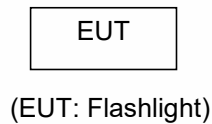


*:Maximum data x:Over limit !:over margin Comment: Factor build in receiver. Operator:

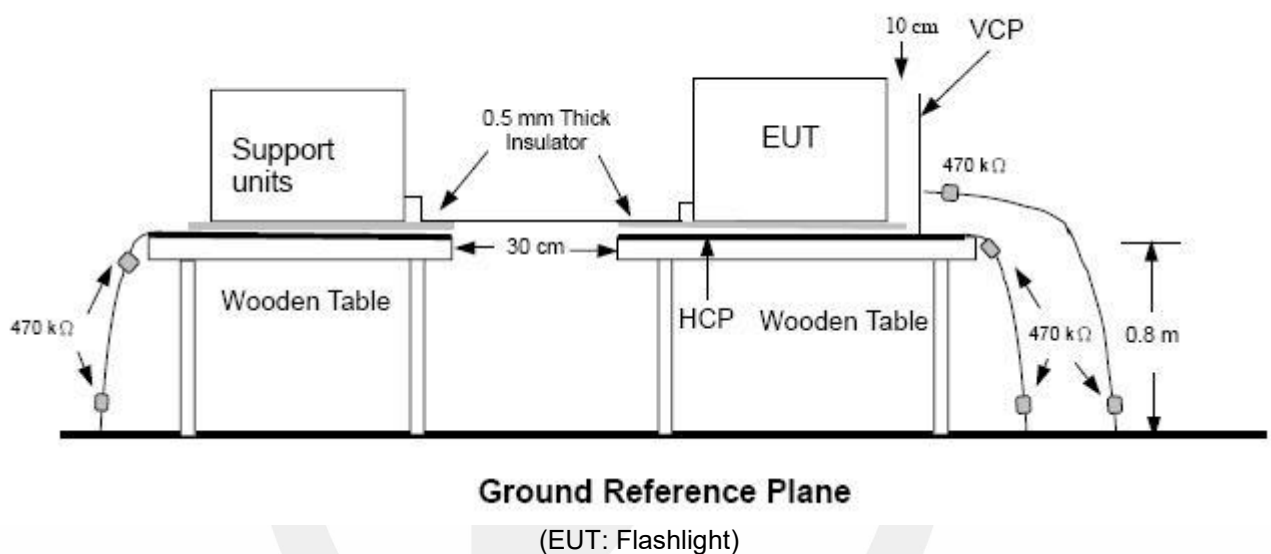
6. ELECTROSTATIC DISCHARGE TEST

6.1 Block Diagram of Test Setup

6.1.1 Block Diagram of the EUT



6.1.2 Block Diagram of ESD Test Setup



6.2 Test Standard

EN 61547: 2009

(IEC 61000-4-2: 2008, Severity Level: Air Discharge: Level 3, ± 8 KV/Contact Discharge: Level 2, ± 4 KV)

6.3 Severity Levels and Performance Criterion

6.3.1 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

Performance criterion: B

6.4 EUT Configuration

The configuration of EUT is listed in Section 6.1.

6.5 Operating Condition of EUT

Step 1: Setup the EUT as shown in Section 6.1.

Step 2: Turn on the power of all equipments.

Step 3: Let the EUT work in test mode (ON, Charging) and measure it.

6.6 Test Procedure

6.6.1 Air Discharge

This test is done on a non-conductive surface. 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.

6.6.2 Contact Discharge

All the procedure shall be same as Section 6.6.1 except that the tip of the discharge electrode shall touch the EUT before the discharge switch is operated.

6.6.3 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.

6.6.4 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.

6.7 Test Results

PASS.

Please refer to the following page.

Electrostatic Discharge Test Results

EMTEK(DONGGUAN) CO., LTD.

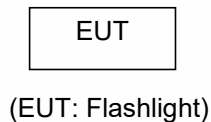
Applicant	: Dongguan Olight E-Commerce Technology Co., Ltd.	Test Date	: November 09, 2021
EUT	: Flashlight	Temperature	: 23.7℃
M/N	: I1R2 PRO	Humidity	: 44%
Power Supply	: DC 5V, Power from battery	Test Engineer:	Ccyf
Test Mode	: ON, Charging	Criterion	: B
Air Discharge: $\pm 8KV$ Contact Discharge: $\pm 4KV$ # For each point positive 10 times and negative 10 times			
Location		Kind A-Air Discharge C-Contact Discharge	Result
HCP		C	PASS
VCP		C	PASS
Non-metal part		A	PASS
Metal part		C	PASS
Remark : N/A		Note: No observable change during the test.	

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

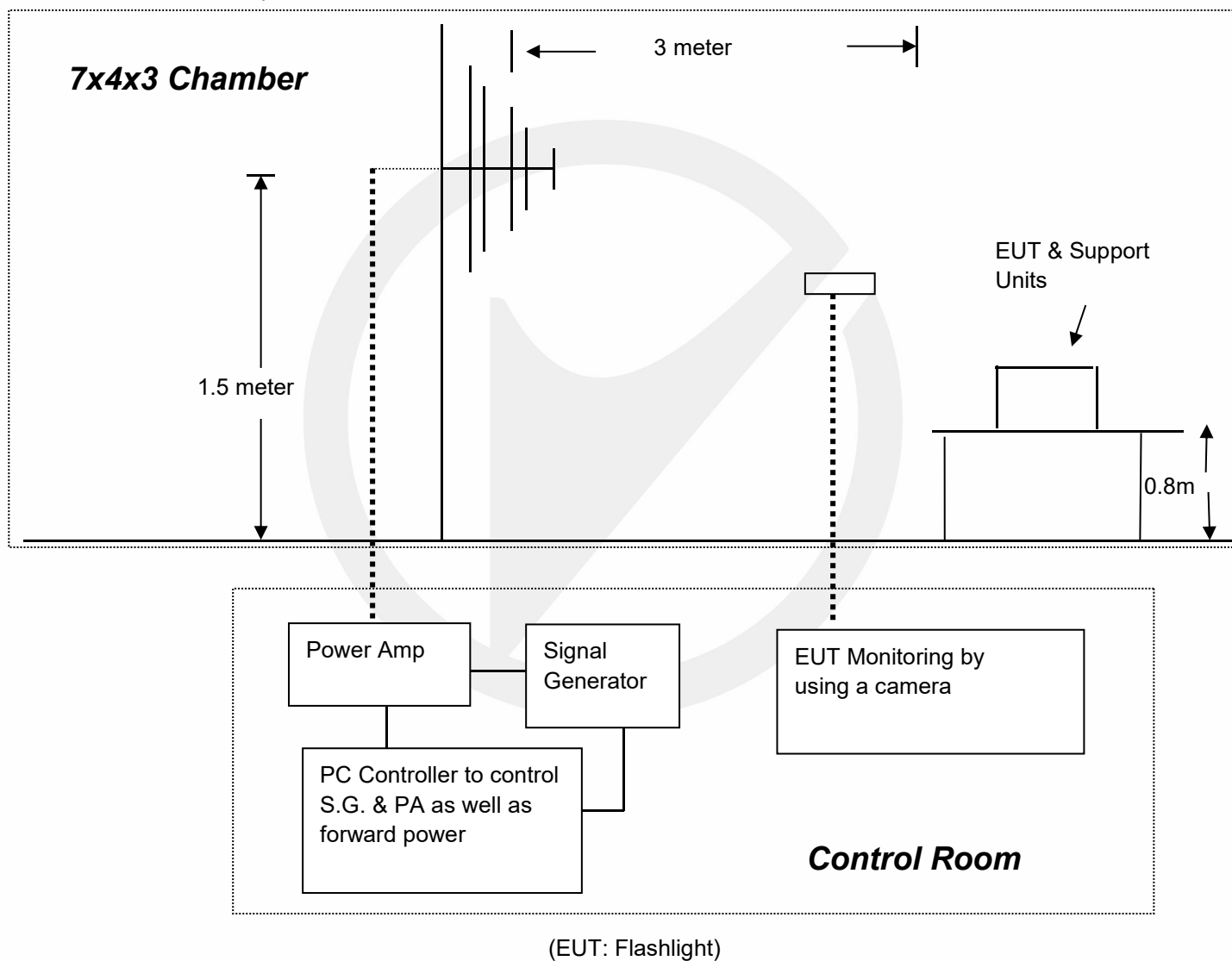
7. RF FIELD STRENGTH SUSCEPTIBILITY TEST

7.1 Block Diagram of Test Setup

7.1.1 Block Diagram of the EUT and the simulators



7.1.2 R/S Test Setup



7.2 Test Standard

EN 61547: 2009

(IEC 61000-4-3: 2006+A1: 2007+A2: 2010, Severity Level: 2, 3V / m)

7.3 Severity Levels and Performance Criterion

7.3.1 Severity level

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

Performance criterion: A

7.4 EUT Configuration

The configurations of EUT are listed in Section 7.1.

7.5 Operating Condition of EUT

Step 1: Setup the EUT as shown in Section 7.1.

Step 2: Turn on the power of all equipments.

Step 3: Let the EUT work in test mode (ON, Charging) and measure it.

7.6 Test Procedure

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. EUT is set 3 meter away from the transmitting antenna which is mounted on an antenna tower. Both horizontal and vertical polarizations 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 EUT screen. 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
4. Dwell time of radiated	0.0015 decade/s
5. Waiting Time	1 Sec.

7.7 Test Results

PASS.

These test result outsourced to EMTEK (SHENZHEN) CO., LTD

Please refer to the following page.

RF Field Strength Susceptibility Test Results

EMTEK(SHENZHEN) CO., LTD

Applicant: Dongguan Olight E-Commerce Technology Co., Ltd.

Test Date : November 09, 2021

EUT : Flashlight

Temperature : 23.7℃

M/N : I1R2 PRO

Humidity : 44%

Field Strength: 3 V/m

Criterion: A

Power Supply: DC 5V, Power from battery

Frequency Range: 80 MHz to 1000 MHz

Test Engineer: Ccyf

Modulation: ☒ AM ☐ Pulse ☐ none 1 KHz 80%

Test Mode : ON, Charging

Frequency Range : 80-1000MHz

Steps

/ %

Horizontal

Vertical

Front

PASS

PASS

Right

PASS

PASS

Rear

PASS

PASS

Left

PASS

PASS

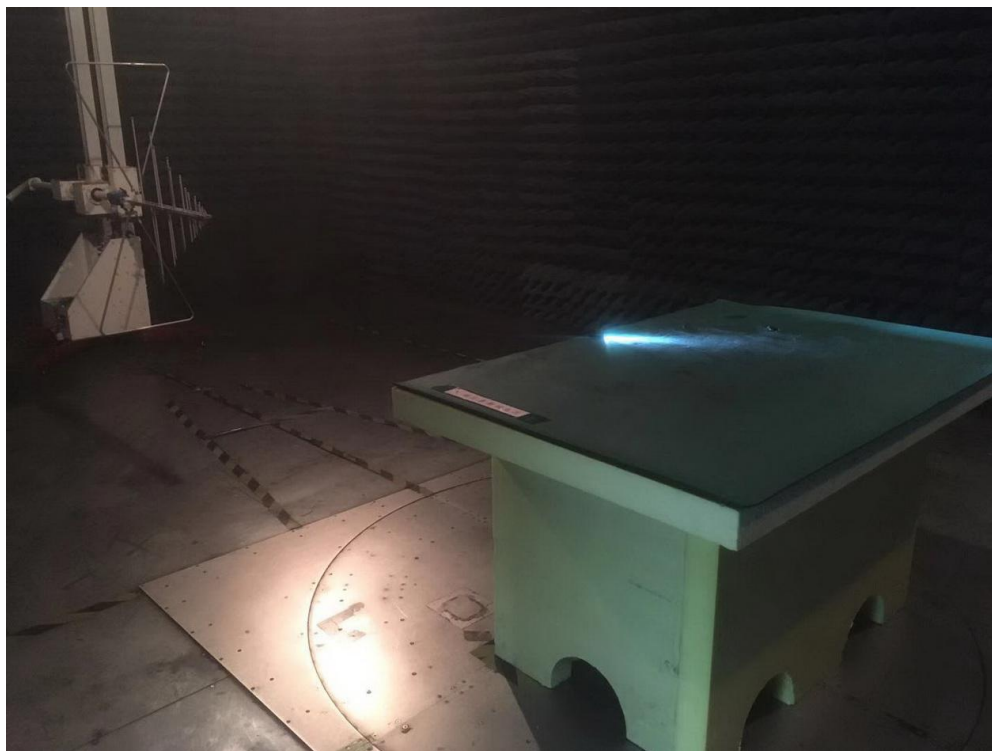
Test Equipment :

1. Signal Generator : N5181A (Agilent)
2. Power Amplifier : 80RF1000-175 (MILMEGA)& AS0102-55 (MILMEGA)& AS1860-50 (MILMEGA)
3. Log.-Per. Antenna: VULP 9118E(SCHWARZBECK)
4. Broad-Band Horn Antenna: STLP 9149 (SCHWARZBECK)
5. RF Power Meter. Dual Channel : 4232A (BOONTON)
6. Field Strength Meter: RSS1006A (DARE)

Note: No observable change during the test.

8. PHOTOGRAPH

8.1 Photo of Radiation Emission Measurement



8.2 Photo of Magnetic field emission Measurement



8.3 Photo of Electrostatic Discharge Test

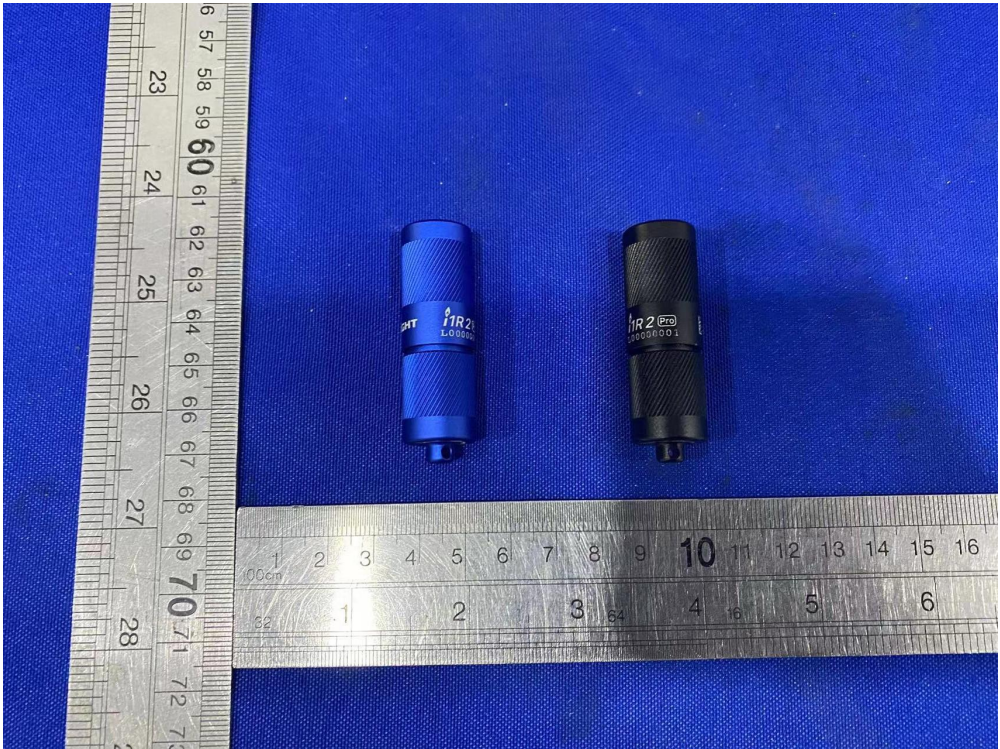


8.4 Photo of RF Field Strength susceptibility





APPENDIX (Photos of EUT)





*** End of Report ***

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