



Report No.: TW2009404E

File Reference No.: 2020-10-14

Applicant: YUYAO YUTE LIGHTING APPLIANCE FACTORY

Product: LED LIGHT

Brand Name: N/A

Model No.: ZYJ099-COB, ZYJ066, ZYJ055, ZYJ007B, ZYJ011F, ZYJ005A, ZYJ005B, ZYJ027B, ZYJ056, ZYJ099-8L, ZYJ099-50SMD, ZYJ036F, ZYJ-JM-001, ZYJ015-COB, ZYJ033, ZYJ007A

Test Standards: EN 55015: 2019  
EN 61547: 2009  
EN 61000-3-2: 2019  
EN 61000-3-3: 2013+A1: 2019

Test result: The EMC testing has been performed on the submitted samples and found in compliance with council EMC Directive 2014/30/EU.

Approved By

A handwritten signature in black ink, appearing to read 'Terry Tang', is written over a horizontal line.

Terry Tang  
Manager

Dated: October 14, 2020

**Results appearing herein relate only to the sample tested**

**The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

**SHENZHEN TIMEWAY TESTING LABORATORIES.**

**Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road  
West, Tong Le Village, Nanshan District, Shenzhen, China**

Tel (+86 755)8344 8688 Fax (+86 755)8344 2996 Email: info@timeway-lab.com



### **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meet with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

#### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:2005 General Requirements) for the Competence of testing Laboratories.

#### **FCC-Registration No.: 744189**

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

#### **Industry Canada (IC) —Registration No.:5205A**

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

#### **A2LA (Certification Number:5013.01)**

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

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## 1.0 General Details

### 1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES  
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West,  
Tong Le Village, Nanshan District, Shenzhen, China  
Telephone: (086) 755-83448688  
Fax: (086) 755-83442996

### 1.2 Applicant Details

Applicant: YUYAO YUTE LIGHTING APPLIANCE FACTORY  
Address: NO.99 NORTH OF TONGHAI ROAD, HUANGJIABU TOWN, YUYAO,  
NINGBO, ZHEJIANG, CHINA  
Telephone: --  
Fax: --

### 1.3 Description of EUT

Product: LED LIGHT  
Manufacturer: YUYAO YUTE LIGHTING APPLIANCE FACTORY  
Address: NO.99 NORTH OF TONGHAI ROAD, HUANGJIABU TOWN, YUYAO,  
NINGBO, ZHEJIANG, CHINA  
Brand Name: N/A  
Model Number: ZYJ099-COB, ZYJ066, ZYJ055, ZYJ007B, ZYJ011F  
Adding Model Number: ZYJ005A, ZYJ005B, ZYJ027B, ZYJ056, ZYJ099-8L, ZYJ099-50SMD, ZYJ036F,  
ZYJ-JM-001, ZYJ015-COB, ZYJ033, ZYJ007A  
Rating : Input: 7.4V, 6600mAh, 48.84Wh

### 1.4 Submitted Sample

1 sample

### 1.5 Test Duration

Date of Receipt of Test Item: September 29, 2020  
Date of Test: September 29, 2020 ~ October 14, 2020

### 1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB  
Radiated Emissions Uncertainty = 4.7dB

### 1.7 Test or witness Engineer

The sample tested by

A handwritten signature in blue ink that reads 'Leo Lau'.

Print Name: Leo Lau

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## 2.0 List of Measurement Equipment

### 2.1 Conducted Emission Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESH3	860905/006	RS	2020.06.23	1 Year
Spectrum Analyzer	ESA-L1500A	US37451154	HP	2020.06.23	1 Year
PULSE LIMITER	ESH3-Z2	100281	RS	2020.06.23	1 Year
LISN	ESH3-Z5	100294	RS	2020.06.23	1 Year
LISN	ESH3-Z5	100253	RS	2020.06.23	1 Year
LISN	NNB42	00012	SCHAFFNER	2020.01.07	1 Year

### 2.2 Radiated Disturbance Test

Name	Model No	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EMI Test Receiver	ESPI 3	100379	RS	2020.06.23	1 Year
Spectrum Analyzer	E4407B	MY50441392	HP/Agilent	2020.06.23	1 Year
Amplifier	BBV9743	#218	HP/Agilent	2020.06.23	1 Year
Bilog Antenna	VULB9163	9163/340	Schwarebeck	2018.07.04	3 Year
Horn Antenna	BBHA 9120D	9120D-631	RS	2018.07.09	3 Year
Amplifier	8449B	3008A00160	HP/Agilent	2020.06.23	1 Year

### 2.3 Harmonic & Flicker Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Harmonics Flicker Test System	PACS-1	72305	CI	2019.09.28	1 Year
5K VA AC Power Source	5001iX	56060	CI	2019.09.28	N/A

### 2.4 ESD Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
ESD Simulator	DITO	0404-24	EM TEST	2020.06.23	1 Year

### 2.5 RF field Strength Susceptibility

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
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Signal Generator	SMT03	100059	RS	2020.06.23	1 Year
Power Meter	NRVS	---	RS	2020.06.23	1 Year
Voltage Probe	URV5-Z2	100012	RS	2020.06.23	1 Year
Voltage Probe	URV5-Z2	100013	RS	2020.06.23	1 Year
Power Amplifier	150W1000	300999	AR	2020.06.23	1 Year
Power Amplifier	25S1G4AM1	305993	AR	2020.06.23	1 Year
Field Probe	CBL6111C	2576	Holaday	2020.06.23	1 Year
Bilog Antenna	MCDC	---	Chase	2020.06.23	1 Year

## 2.6 Electrical Fast Transient/Burst (EFT/B) Immunity test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
EFT Generator	UCS 500 M4	0304-42	EM TEST	2020.06.23	1 Year
Power Source	MV2616	0104-14	EM TEST	2020.06.23	1 Year

## 2.7 Surge Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Ultra Compact Simulator	UCS 500 M4	0304-42	EM TEST	2020.06.23	1 Year
Power Source	MV2616	0104-14	EM TEST	2020.06.23	1 Year

## 2.8 Conducted Immunity Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Continuous Wave Simulator	CWS 500C	0407-05	EM TEST	2020.06.23	1 Year

## 2.9 Power-frequency Magnetic Field

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Continuous Wave Simulator	UCS 500 M4	0304-42	EM TEST	2020.06.23	1 Year
Power Source Network	MV 2616	0104-14	EM TEST	2020.06.23	1 Year
Current Transformer	MC2630	--	EM TEST	2020.06.23	1 Year
Magnetic Coil	MS100	0304-42	EM TEST	2020.06.23	1 Year

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## 2.10 Voltage Dips/Interruption Immunity Test

Name	Model No.	Serial No.	Manufacturer	Calibration Date	Calibration Cycle
Ultra Compact Simulator	UCS 500 M4	0304-42	EM TEST	2020.06.23	1 Year
Power Source	MV2616	0104-14	EM TEST	2020.06.23	1 Year

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### 3.0 Technical Details

#### 3.1 Investigations Requested

Perform Electromagnetic Interference [EMI] & Electromagnetic Susceptability [ EMS]  
tests for CE Marking

#### 3.2 Test Standards

Test Standards		
EN 55015: 2019	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EN 61000-3-2: 2019	Electromagnetic compatibility(EMC)- Part 3-2:Limits-Limits for harmonic current emissions(equipment input current $\leq 16A$ per phase)	
EN 61000-3-3: 2013 +A1:2019	Electromagnetic compatibility (EMC)- Part 3-3:Limits-Limitation of voltage changes, Voltage fluctuations and flicker in public low-voltage supply systems. For equipment with rated current $\leq 16A$ per phase and not subject to conditional connection	
EN 61547: 2009	Equipment for general lighting purposes—EMC immunity requirements	
	EN 61000-4-2:2009	Electrostatic discharge
	EN 61000-4-3:2006+A2:2010	RF field strength susceptibility
	EN 61000-4-4:2012	Electrical Fast transients
	EN 61000-4-5:2014+A1:2017	Surge
	EN 61000-4-6:2014	Conducted susceptibility
	EN 61000-4-8:2010	Magnetic Field
	EN 61000-4-11:2004+A1:2017	Dips/Voltage Interruption Variation

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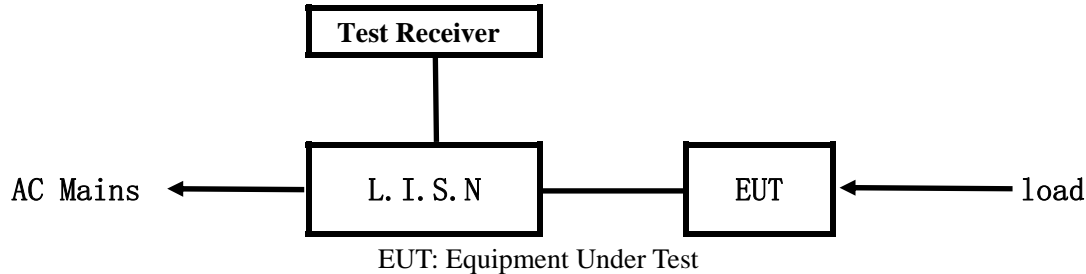
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#### 4.0 Disturbance Voltage Test

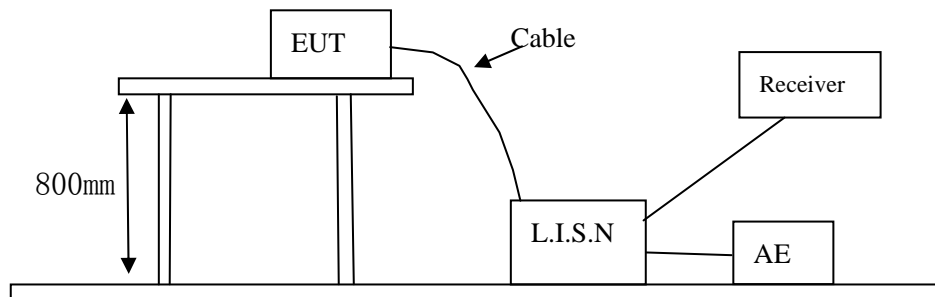
##### 4.1 Schematics of the test



##### 4.2 Test Method:

The test was performed in accordance with EN 55015: 2019

Block diagram of Test setup



##### 4.3 Disturbance Voltage Limits

###### A Disturbance Voltage Limits at mains terminals

Frequency(MHz)	Limits dB( $\mu$ V)	
	Quasi-peak Level	Average Level
9kHz to 50kHz	110	--
50kHz to 150kHz	90 to 80	--
150kHz to 0.5MHz	66 to 56	56 to 46
0.5MHz to 2.51MHz	56	46
2.51MHz to 3.0MHz	73	63
3.0MHz to 5.0MHz	56	46
5.0MHz to 30.0MHz	60	50

Notes: 1. decreasing linearly with logarithm of the frequency in the range 50kHz to 150kHz and 150kHz to 0.5MHz.

2. The lower limit shall apply at the transition frequencies

###### B Disturbance Voltage Limits at load terminals

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Frequency(MHz)	Limits dB( $\mu$ V)	
	Quasi-peak Level	Average Level
0.15MHz to 0.50MHz	80	70
0.50MHz to 30MHz	74	64

\*At the transition frequency, the lower limit applies.

#### C Disturbance Voltage Limits at Control terminals

Frequency(MHz)	Limits dB( $\mu$ V)	
	Quasi-peak Level	Average Level
0.15MHz to 0.50MHz	84 to 74	74 to 64
0.50MHz to 30MHz	74	64

\* The limits decrease linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz

#### 4.4 Test Results

Limits for Conducted Emission test, Please refer to limit line (Quasi-peak) in the following diagram labelled as (QP)

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**A: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

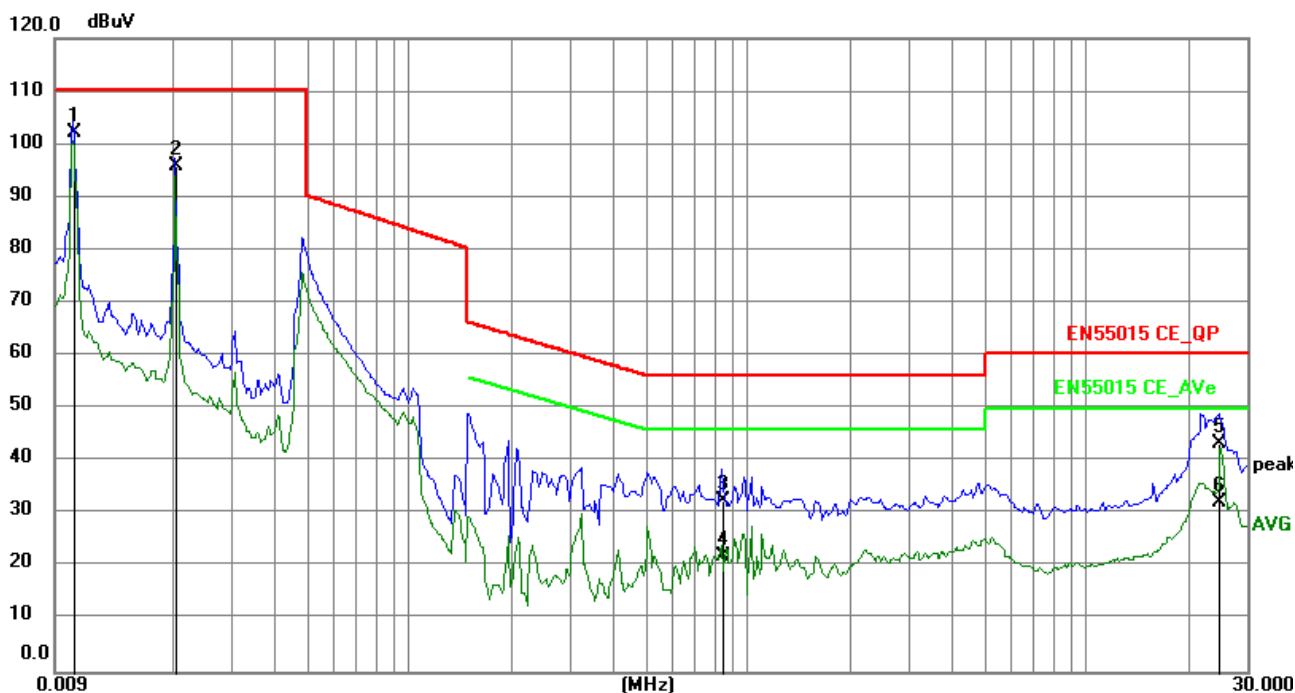
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: CHARGING+LIGHTING**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.0102	92.26	10.00	102.26	110.00	-7.74	QP	P
2	0.0205	85.44	10.35	95.79	110.00	-14.21	QP	P
3	0.8442	22.69	9.78	32.47	56.00	-23.53	QP	P
4	0.8442	12.38	9.78	22.16	46.00	-23.84	AVG	P
5	24.7425	32.44	10.97	43.41	60.00	-16.59	QP	P
6	24.7425	21.13	10.97	32.10	50.00	-17.90	AVG	P

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**B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

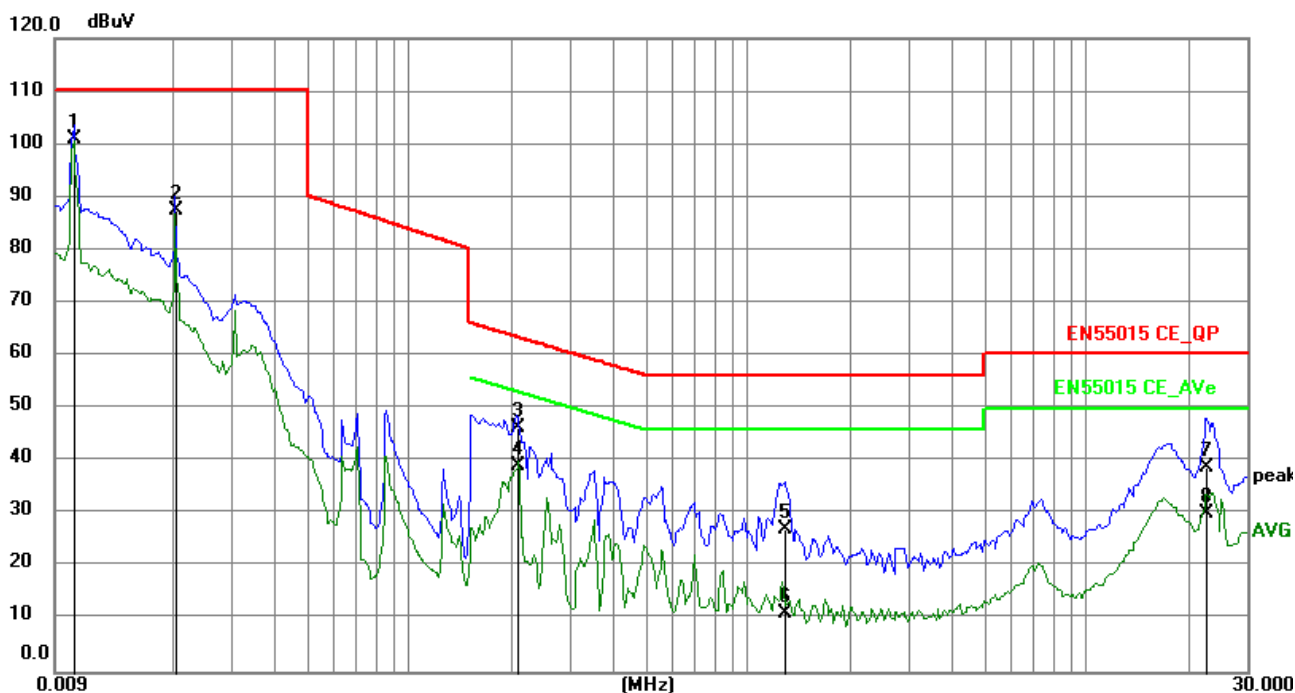
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: CHARGING+LIGHTING**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.0103	90.85	10.00	100.85	110.00	-9.15	QP	P
2	0.0205	77.05	10.35	87.40	110.00	-22.60	QP	P
3	0.2085	36.56	9.75	46.31	63.26	-16.95	QP	P
4	0.2085	29.51	9.75	39.26	53.26	-14.00	AVG	P
5	1.2966	17.47	9.79	27.26	56.00	-28.74	QP	P
6	1.2966	1.58	9.79	11.37	46.00	-34.63	AVG	P
7	22.7418	27.98	10.85	38.83	60.00	-21.17	QP	P
8	22.7418	19.18	10.85	30.03	50.00	-19.97	AVG	P

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**C: Conducted Emission on Live Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

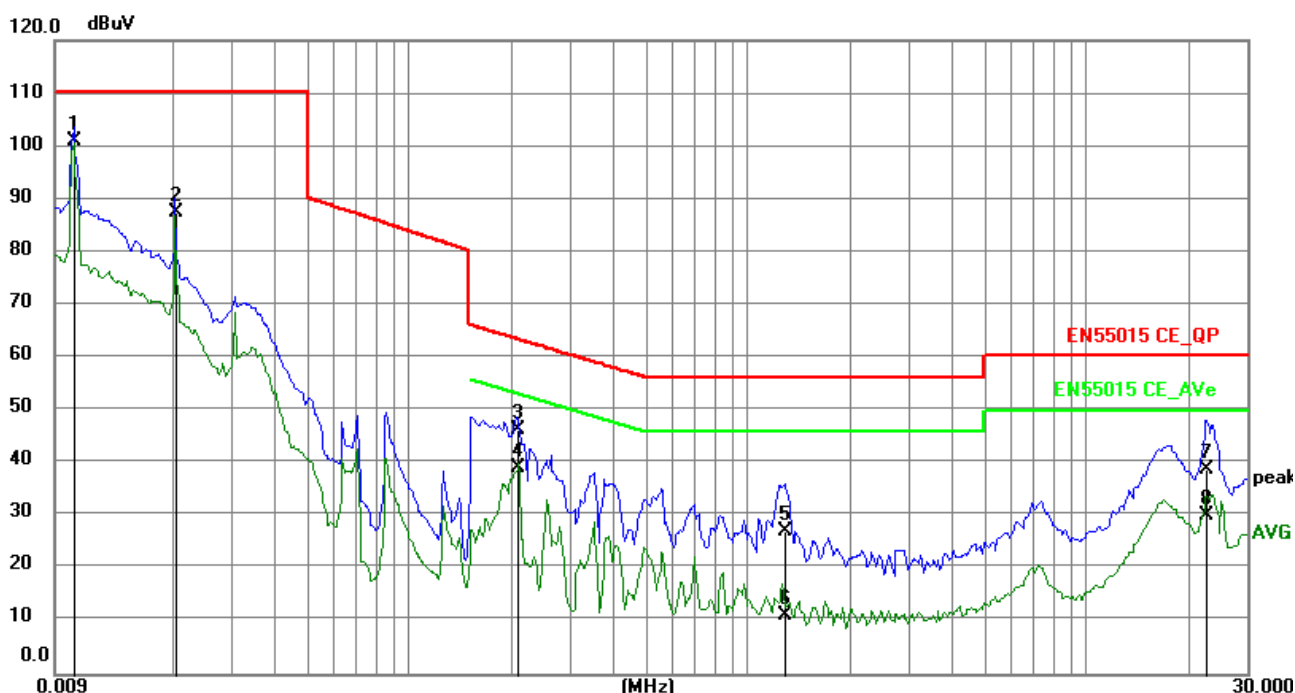
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: CHARGING+LIGHTING**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.0103	90.85	10.00	100.85	110.00	-9.15	QP	P
2	0.0205	77.05	10.35	87.40	110.00	-22.60	QP	P
3	0.2085	36.56	9.75	46.31	63.26	-16.95	QP	P
4	0.2085	29.51	9.75	39.26	53.26	-14.00	AVG	P
5	1.2966	17.47	9.79	27.26	56.00	-28.74	QP	P
6	1.2966	1.58	9.79	11.37	46.00	-34.63	AVG	P
7	22.7418	27.98	10.85	38.83	60.00	-21.17	QP	P
8	22.7418	19.18	10.85	30.03	50.00	-19.97	AVG	P

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**D: Conducted Emission on Neutral Terminal (150kHz to 30MHz)**

**EUT Operating Environment**

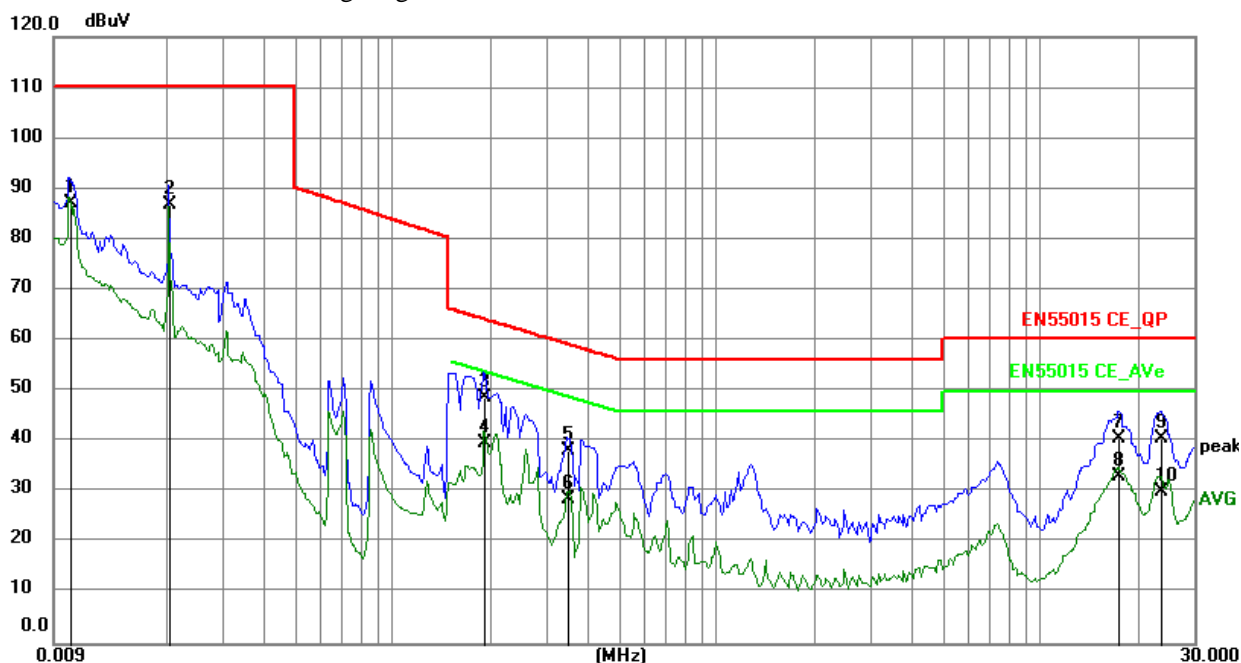
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 kPa

**EUT set Condition: CHARGING+LIGHTING**

**Equipment Level: Class B**

**Results: Pass**

Please refer to following diagram for individual



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.0101	77.15	10.00	87.15	110.00	-22.85	QP	P
2	0.0205	76.59	10.35	86.94	110.00	-23.06	QP	P
3	0.1929	39.09	9.75	48.84	63.91	-15.07	QP	P
4	0.1929	29.90	9.75	39.65	53.91	-14.26	AVG	P
5	0.3489	28.63	9.76	38.39	58.99	-20.60	QP	P
6	0.3489	18.99	9.76	28.75	48.99	-20.24	AVG	P
7	17.5314	30.22	10.53	40.75	60.00	-19.25	QP	P
8	17.5314	22.54	10.53	33.07	50.00	-16.93	AVG	P
9	23.6856	29.89	10.91	40.80	60.00	-19.20	QP	P
10	23.6856	19.19	10.91	30.10	50.00	-19.90	AVG	P

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## 5.0 Magnetic Field Test

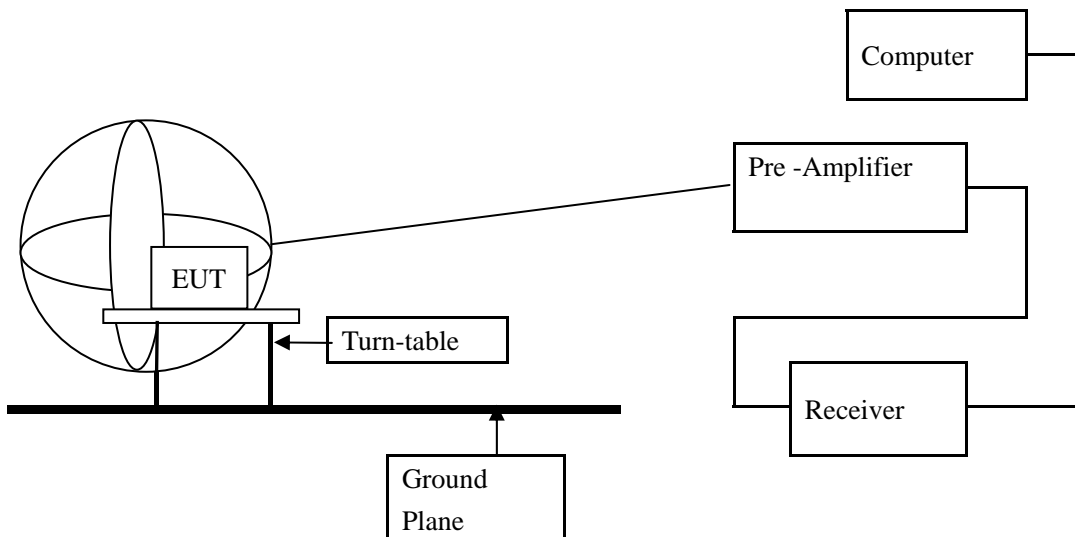
### 5.1 Schematics of the test



### 5.2 Test Method:

The test was performed in accordance with EN 55015: 2019

#### Block diagram of Test setup



### 5.3 Radiated electromagnetic disturbances Limits

Frequency Range (MHz)	Limits for loop diameter (dB $\mu$ A)		
	2m	3m	4m
9kHz to 70kHz	88	81	75
70kHz to 150kHz	88 to 58	81 to 51	75 to 45
150kHz to 2.2MHz	58 to 26	51 to 22	45 to 16
2.2MHz to 3.0MHz	58	51	45
3.0MHz to 30MHz	22	15 to 16	9 to 12

Note: 1.The lower limit shall apply at the transition frequencies

2.Decreasing linearly with the logarithm of the frequency.

3.Increasing linearly with the logarithm of the frequency.

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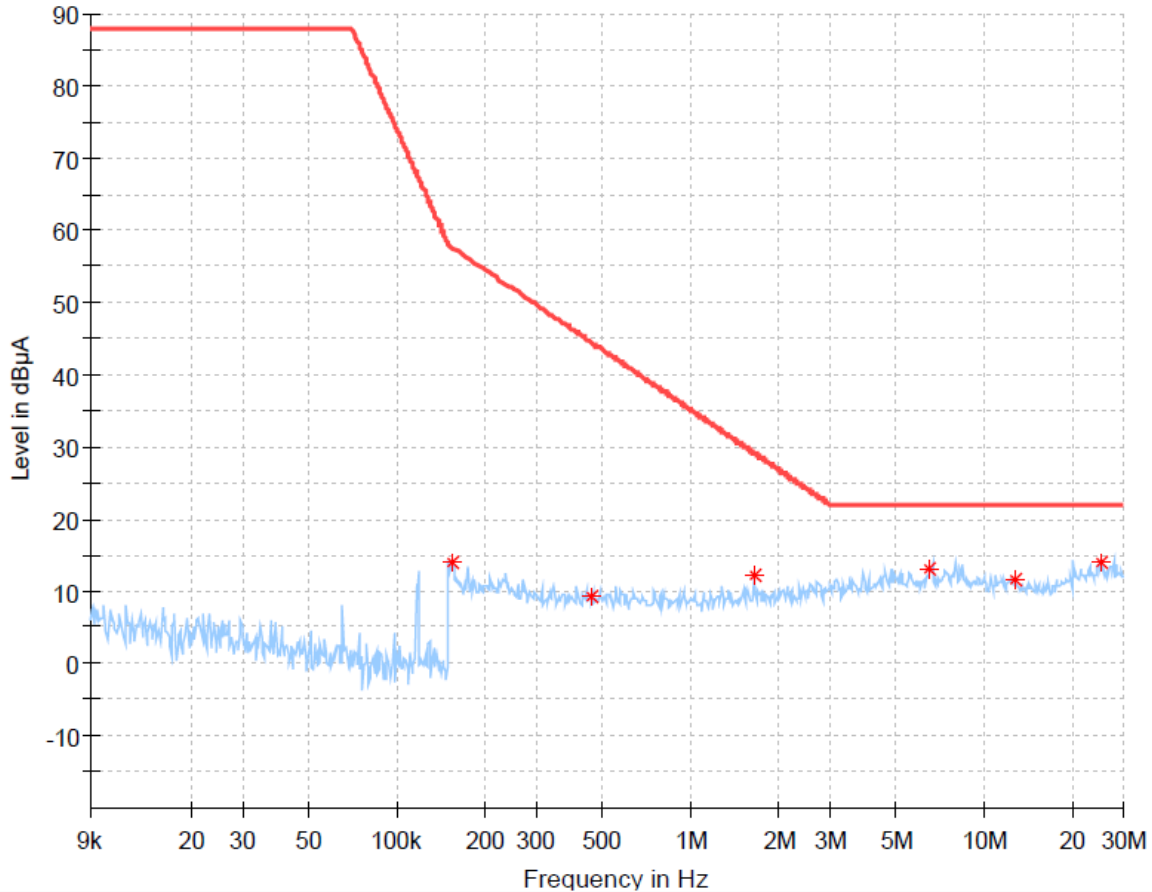


#### 5.4 Magnetic Field Test in X (9kHz to 30MHz)

EUT set Condition: ON

**Results:** Pass

Please refer to following diagram for individual



#### Critical Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Corr. (dB)
0.154545	13.94	57.64	43.70	6.0
0.457178	9.24	44.61	35.36	6.0
1.650223	12.10	29.18	17.09	6.0
6.579814	13.27	22.00	8.73	6.1
12.815797	11.63	22.00	10.37	6.2
25.211521	14.13	22.00	7.87	6.3

#### Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Corr. (dB)
---	---	---	---	---

The test data shows much less than the limit, no necessary take the results.

The report refers only to the sample tested and does not apply to the bulk.

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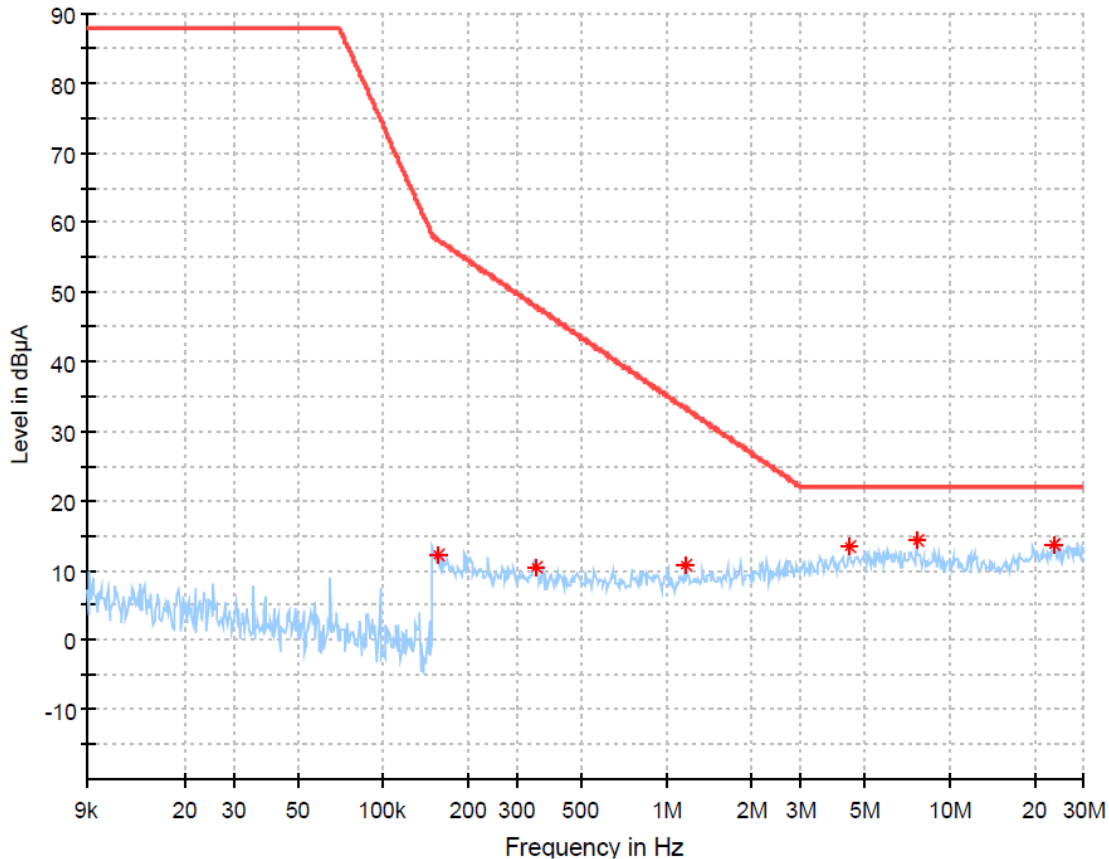


### Magnetic Field Test in Y (9kHz to 30MHz)

EUT set Condition: ON

**Results:** Pass

Please refer to following diagram for individual



### Critical Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Corr. (dB)
0.156091	12.21	57.52	45.31	6.0
0.349469	10.34	47.84	37.49	6.0
1.164916	10.80	33.37	22.56	6.0
4.419352	13.33	22.00	8.67	6.1
7.715349	14.20	22.00	7.80	6.1
23.515241	13.78	22.00	8.22	6.2

### Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Corr. (dB)
---	---	---	---	---

The test data shows much less than the limit, no necessary take the results.

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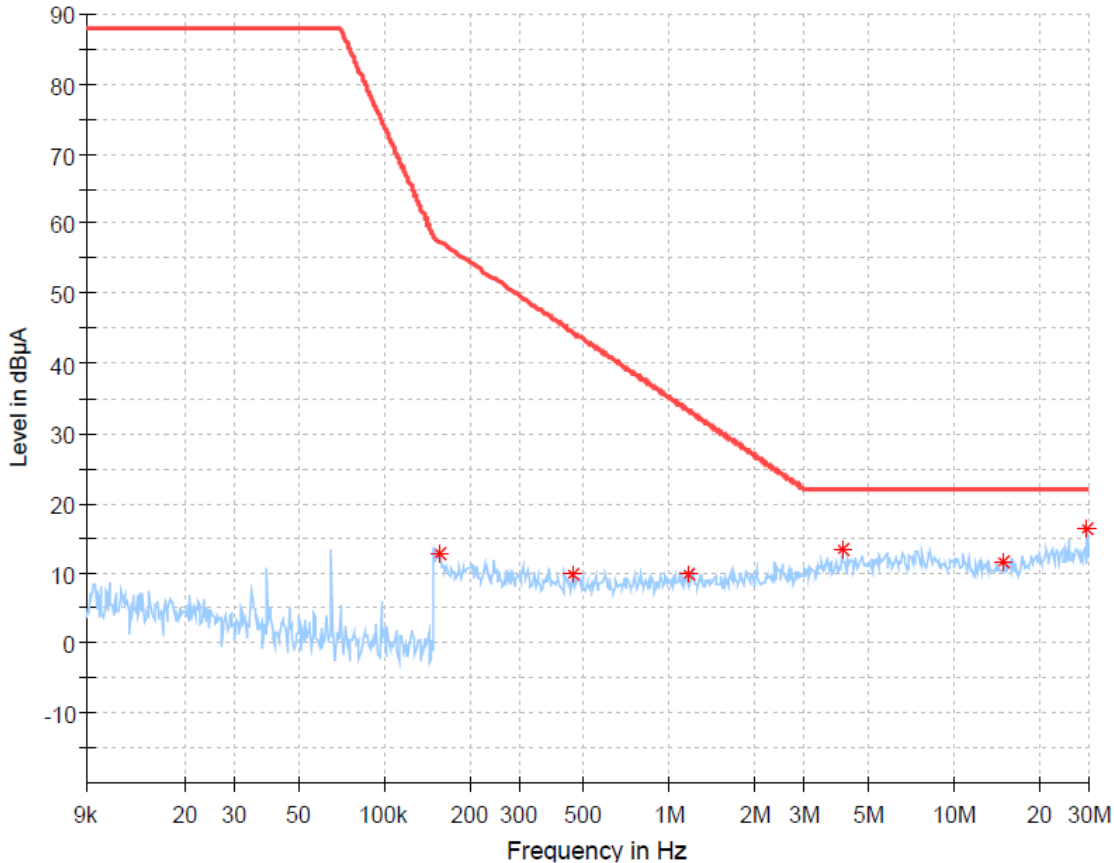


### Magnetic Field Test in Z (9kHz to 30MHz)

EUT set Condition: ON

**Results:** Pass

Please refer to following diagram for individual



### Critical Freqs

Frequency (MHz)	MaxPeak (dBμA)	Limit (dBμA)	Margin (dB)	Corr. (dB)
0.157652	12.97	57.40	44.43	6.0
0.457178	9.88	44.61	34.73	6.0
1.176565	9.93	33.25	23.32	6.0
4.081198	13.47	22.00	8.53	6.1
15.027530	11.64	22.00	10.36	6.2
29.562491	16.35	22.00	5.65	6.3

### Final Result

Frequency (MHz)	QuasiPeak (dBμA)	Limit (dBμA)	Margin (dB)	Corr. (dB)
---	---	---	---	---

The test data shows much less than the limit, no necessary take the results.

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6.0 Radiated Disturbance Test

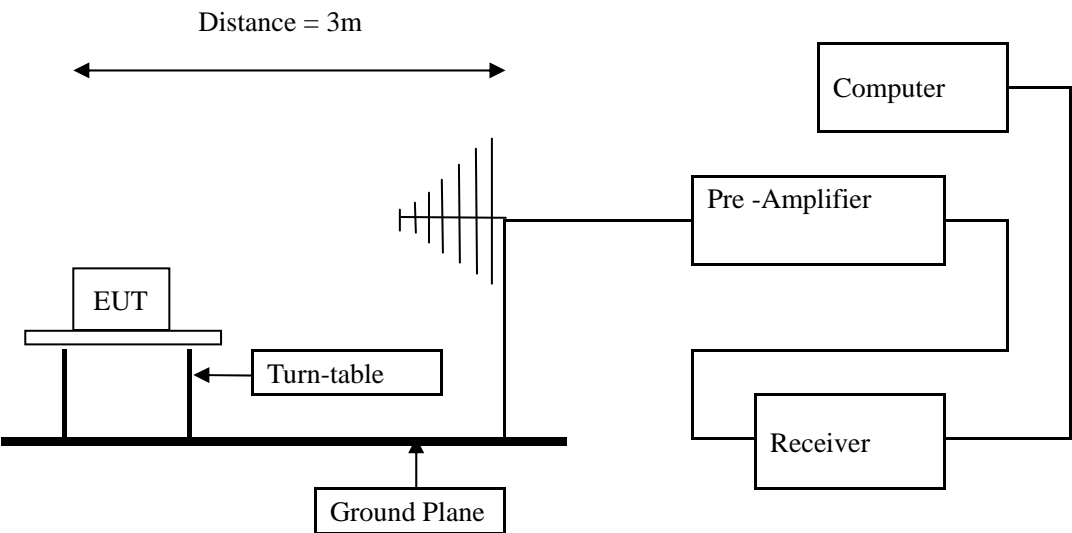
6.1 Schematics of the test



6.2 Test Method:

The test was performed in accordance with EN 55015: 2019

Block diagram of Test setup



6.3 Power line conducted Emission Limit

Frequency Range (MHz)	Quasi-Peak limits (dB $\mu$ V/m)
30-230	40.00
230-1000	47.00

Note: The lower limit shall apply at the transition frequencies

6.4 Test result

Please refer to following table

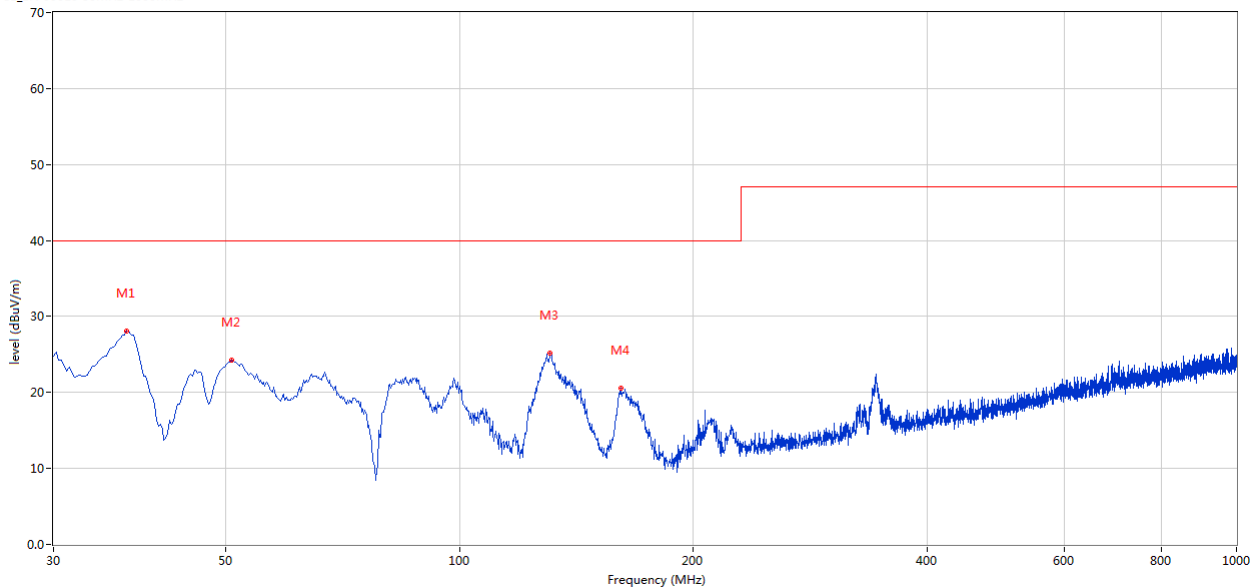
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**A: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2020-10-13_17.04.33
EUT Name:	LED LIGHT	Test Engineer:	KENT
Manufacturer:	YUYAO YUTE LIGHTING APPLIANCE FACTORY	Test Standard:	EN 55015
Model:	ZYJ099-COB	Work Addition:	CHARGING+LIGHTING
Temp.( °C):	25	Load:	
Hum.:	65%	Remark:	

CE\_EN 55015 30MHz-1000MHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	37.273	28.13	-13.06	40.0	-11.87	Peak	360.00	200	Horizontal	Pass
2	50.850	24.25	-11.40	40.0	-15.75	Peak	359.00	100	Horizontal	Pass
3	130.855	25.23	-16.78	40.0	-14.77	Peak	7.00	200	Horizontal	Pass
4	161.160	20.54	-16.36	40.0	-19.46	Peak	360.00	200	Horizontal	Pass

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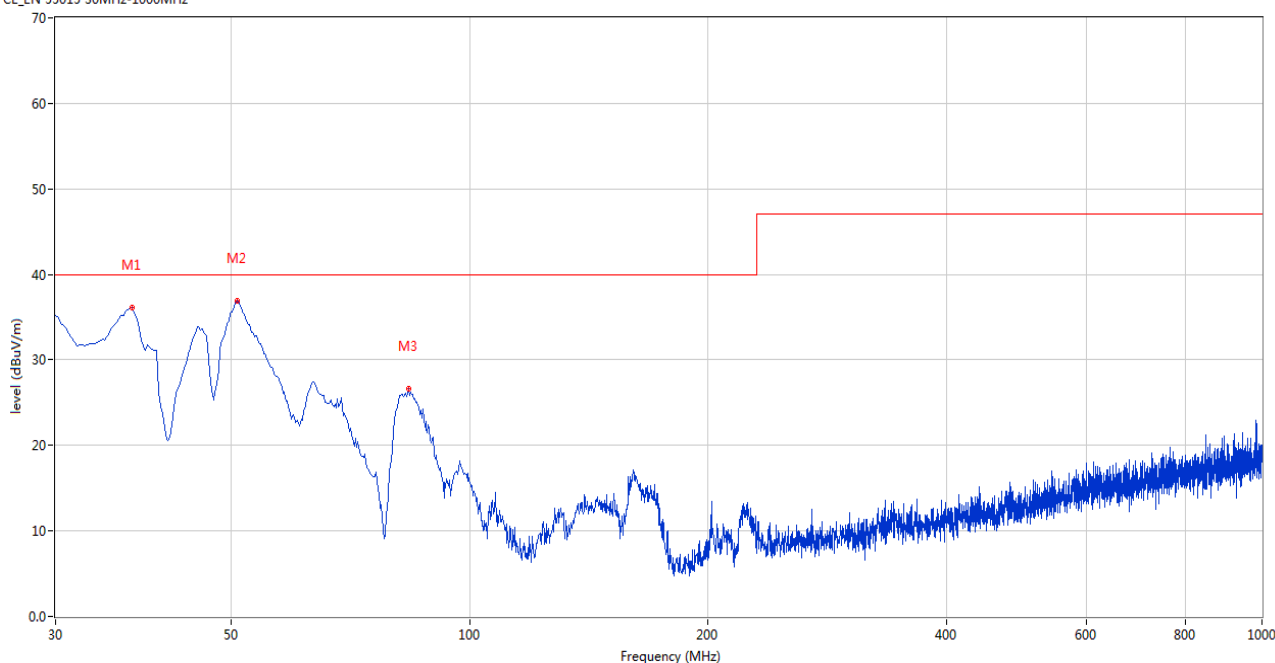
In the event of the improper use of the report, the SHENZHEN TIMEWAY TESTING LABORATORIES reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



**B: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2020-10-13_17.00.47
EUT Name:	LED LIGHT	Test Engineer:	KENT
Manufacturer:	YUYAO YUTE LIGHTING APPLIANCE FACTORY	Test Standard:	EN 55015
Model:	ZYJ099-COB	Work Addition:	CHARGING+LIGHTING
Temp.( °C):	25	Load:	
Hum.:	65%	Remark:	

CE\_EN 55015 30MHz-1000MHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	37.516	35.92	-13.24	40.0	-4.08	Peak	360.00	100	Vertical	Pass
2	50.850	36.88	-11.83	40.0	-3.12	Peak	349.00	100	Vertical	Pass
3	83.822	26.62	-17.33	40.0	-13.38	Peak	360.00	100	Vertical	Pass

The report refers only to the sample tested and does not apply to the bulk.

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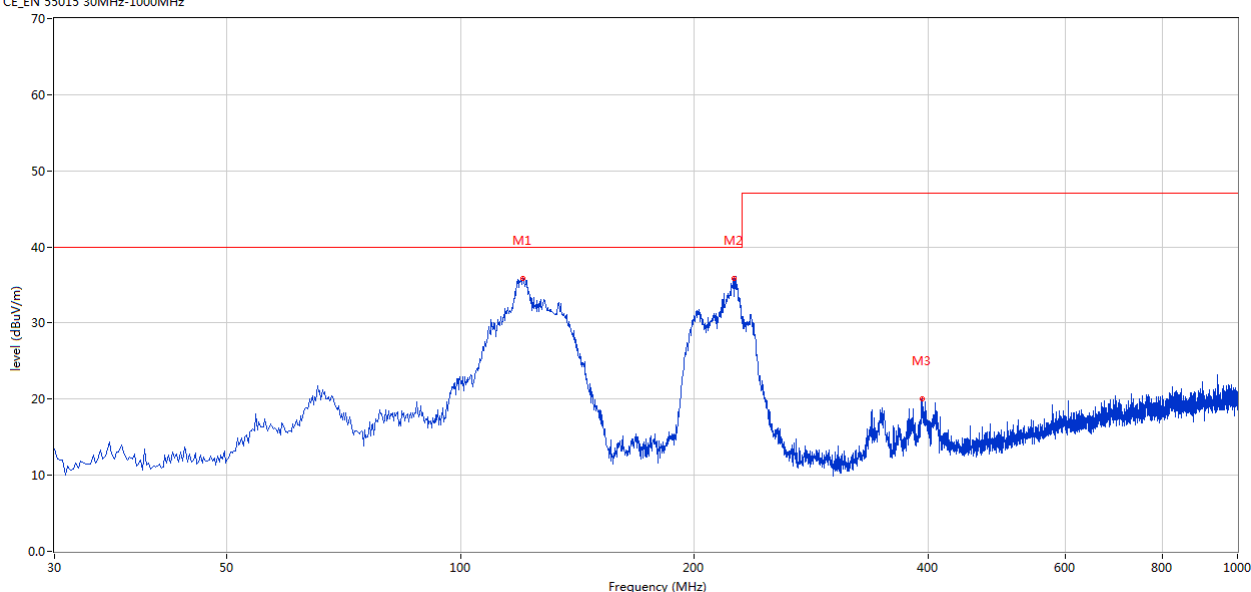
In the event of the improper use of the report, the SHENZHEN TIMEWAY TESTING LABORATORIES reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



**C: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2020-10-13_17.07.55
EUT Name:	LED LIGHT	Test Engineer:	KENT
Manufacturer:	YUYAO YUTE LIGHTING APPLIANCE FACTORY	Test Standard:	EN 55015
Model:	ZYJ099-COB	Work Addition:	OUTPUT+LIGHTING
Temp.( °C):	25	Load:	
Hum.:	65%	Remark:	

CE\_EN 55015 30MHz-1000MHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	120.187	36.08	-16.07	40.0	-3.92	Peak	4.00	200	Horizontal	N/A
2	225.164	35.84	-13.82	40.0	-4.16	Peak	157.00	200	Horizontal	Pass
3	392.447	20.09	-10.16	47.0	-26.91	Peak	281.00	200	Horizontal	Pass

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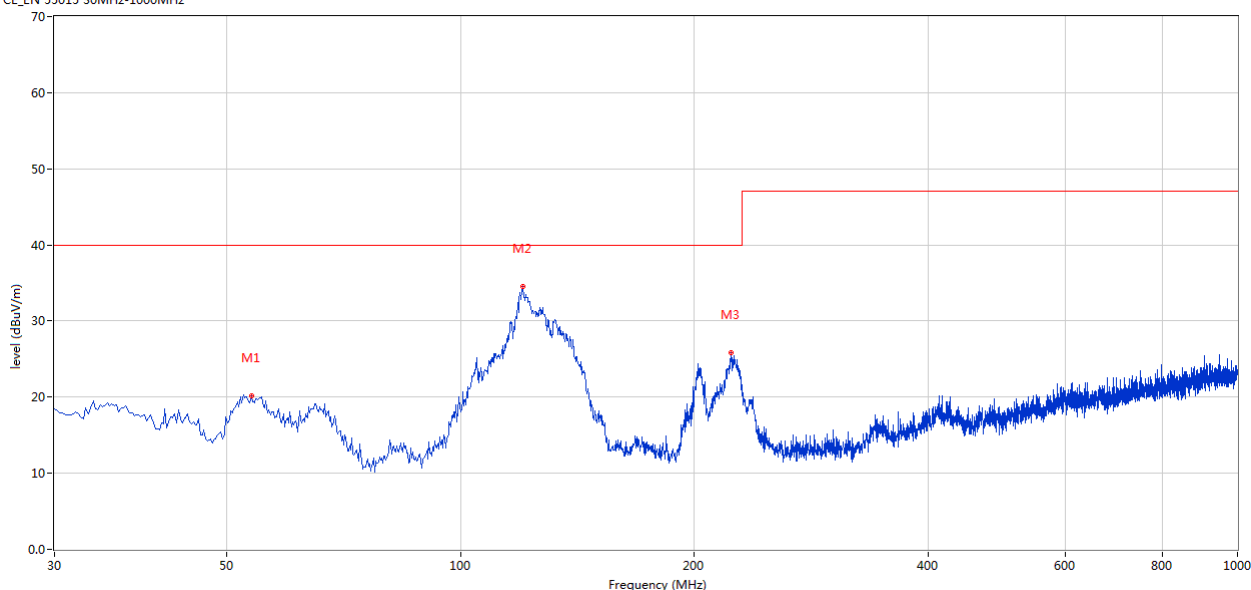
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**D: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2020-10-13_17.09.53
EUT Name:	LED LIGHT	Test Engineer:	KENT
Manufacturer:	YUYAO YUTE LIGHTING APPLIANCE FACTORY	Test Standard:	EN 55015
Model:	ZYJ099-COB	Work Addition:	OUTPUT+LIGHTING
Temp.( °C):	25	Load:	
Hum.:	65%	Remark:	

CE EN 55015 30MHz-1000MHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	53.759	20.19	-11.53	40.0	-19.81	Peak	218.00	100	Vertical	Pass
2	120.187	34.54	-15.39	40.0	-5.46	Peak	274.00	100	Vertical	Pass
3	222.982	25.87	-13.18	40.0	-14.13	Peak	170.00	100	Vertical	Pass

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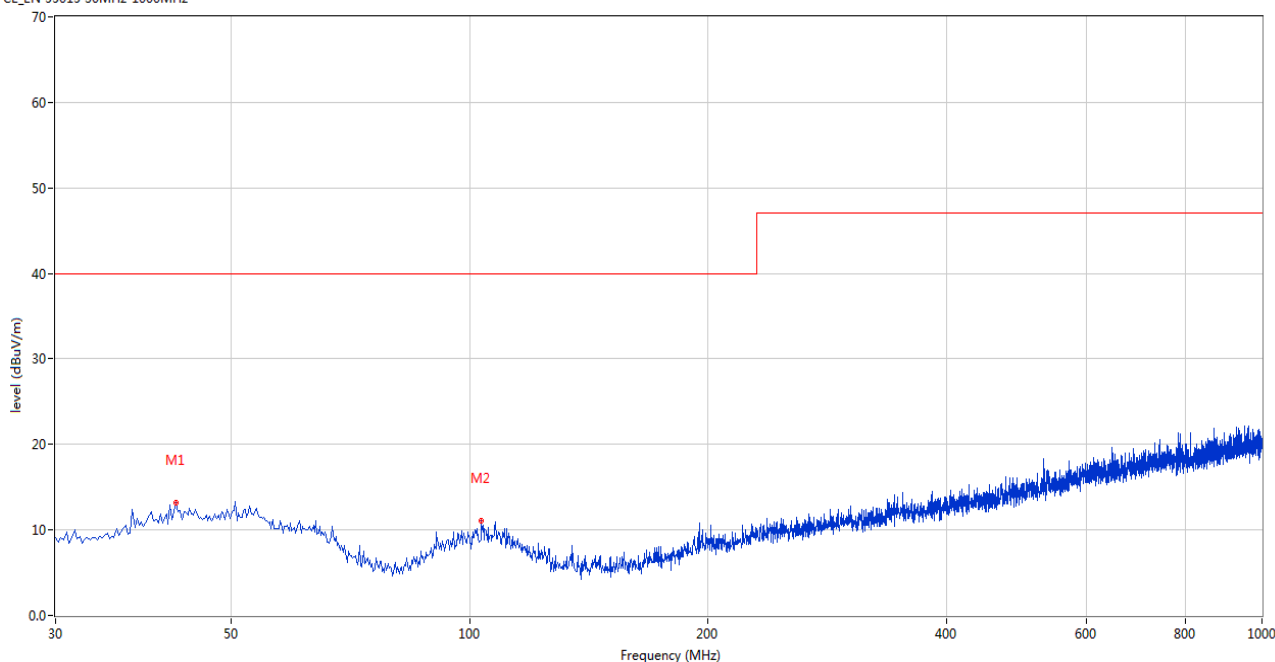




**E: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2020-10-13_10.59.42
EUT Name:	LED LIGHT	Test Engineer:	KENT
Manufacturer:	YUYAO YUTE LIGHTING APPLIANCE FACTORY	Test Standard:	EN 55015
Model:	ZYJ099-COB	Work Addition:	LIGHTING
Temp.( °C):	25	Load:	
Hum.:	65%	Remark:	

CE\_EN 55015 30MHz-1000MHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	42.607	13.14	-11.90	40.0	-26.86	Peak	223.00	100	Horizontal	Pass
2	103.459	11.03	-13.98	40.0	-28.97	Peak	116.00	100	Horizontal	Pass

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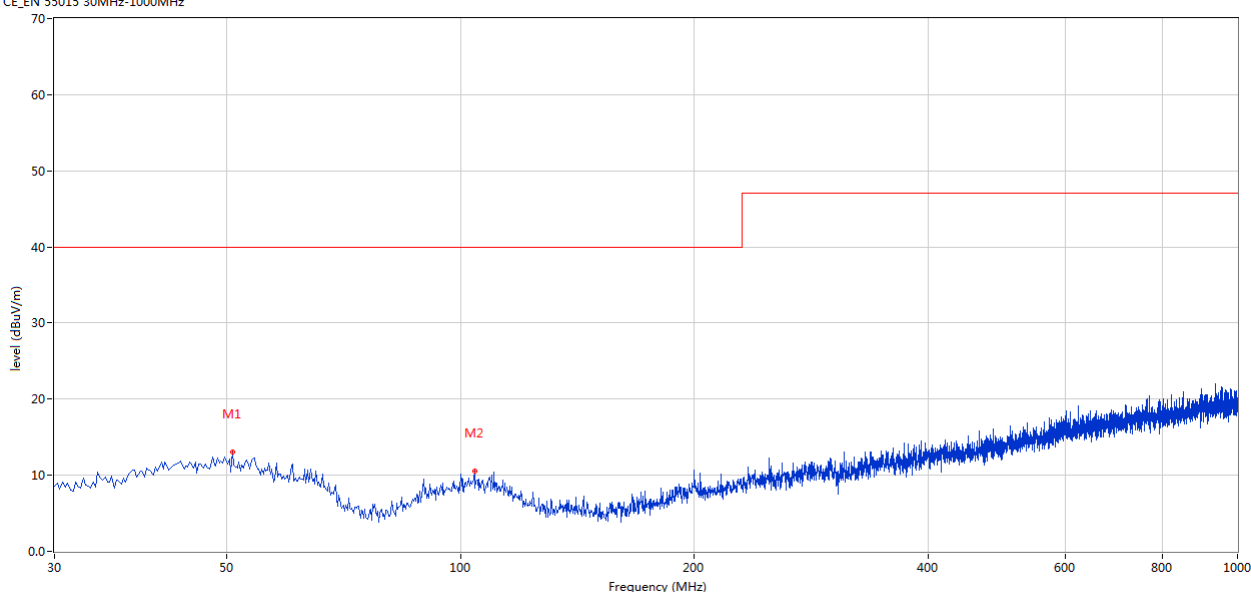
In the event of the improper use of the report, The SHENZHEN TIMEWAY TESTING LABORATORIES, reserves the rights to withdraw it and to adopt any other remedies which may be appropriate.



**F: Radiated Disturbance (30MHz----1000MHz)**

Project Number:	CASE3	Test Time:	2020-10-13_11.01.31
EUT Name:	LED LIGHT	Test Engineer:	KENT
Manufacturer:	YUYAO YUTE LIGHTING APPLIANCE FACTORY	Test Standard:	EN 55015
Model:	ZYJ099-COB	Work Addition:	LIGHTING
Temp.( °C):	25	Load:	
Hum.:	65%	Remark:	

CE\_EN 55015 30MHz-1000MHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	50.850	13.07	-11.83	40.0	-26.93	Peak	281.00	100	Vertical	Pass
2	104.186	10.50	-13.93	40.0	-29.50	Peak	344.00	100	Vertical	Pass

The report refers only to the sample tested and does not apply to the bulk.

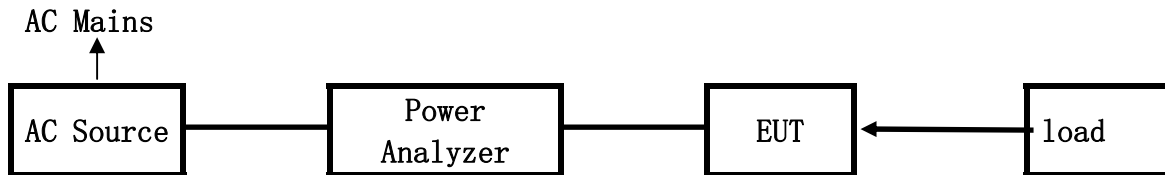
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## 7.0 Voltage Fluctuations & Flicker Test

### 7.1 Schematic of the test



EUT: Equipment Under Test

### 7.2 Test Method:

The test was performed in accordance with EN 61000-3-3: 2013+A1:2019

### 7.3 Test Results

Result: N/A

Please refer to the following pages

The report refers only to the sample tested and does not apply to the bulk.

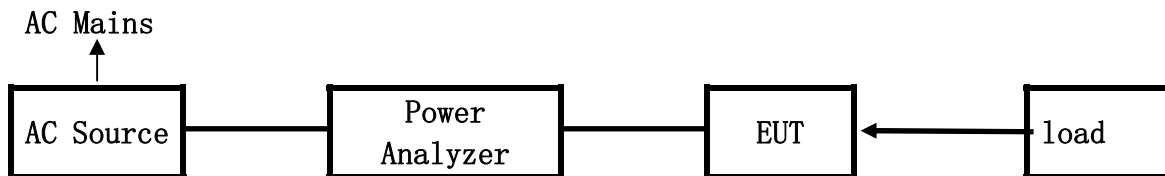
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## 8.0 Harmonic Current Emission Test

### 8.1 Schematic of the test



EUT: Equipment Under Test

### 8.2 Test Method

The test was performed in accordance with EN 61000-3-2: 2019

\*: The Level of the product is: CLASS C (Power less than 5W is not applicable)

### 8.3 Test Results: N/A

The report refers only to the sample tested and does not apply to the bulk.

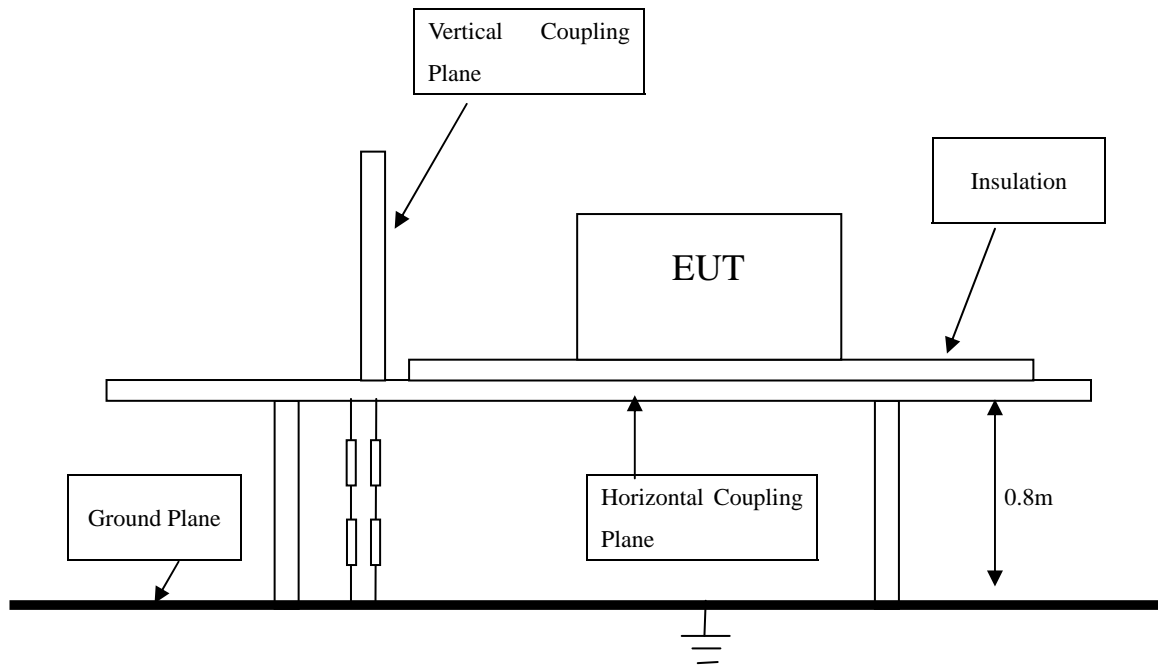
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## 9.0 Electrostatic Discharge

### 9.1 Schematic of the test



### 9.2 Test method

The test was performed in accordance with EN 61000-4-2:2009

### 9.3 Test severity

$\pm 4\text{kV}$  for direct & in-direct Contact Discharge

$\pm 8\text{kV}$  for air Discharge

Performance Criterion Require: B (Please see following table)

### 9.4 Susceptibility performance Criteria and Severity level

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to damage of equipment(components) or software, or loss of data

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#### Severity Level

Level	Test Voltage Direct & in-direct contact Discharge (kV)	Test Voltage Air discharge(kV)
1	$\pm 2\text{kV}$	$\pm 2\text{kV}$
2	$\pm 4\text{kV}$	$\pm 4\text{kV}$
3	$\pm 6\text{kV}$	$\pm 8\text{kV}$
4	$\pm 8\text{kV}$	$\pm 15\text{kV}$

#### 9.5 Test Result

Please refer to the following table for individual results.

Location	Discharge Method	Test Voltage	Results
HCP (Horizontal coupling plane)	In-Direct	$\pm 2\text{kV}$ , $\pm 4\text{kV}$	Pass
VCP (Vertical Coupling plane)	In-Direct	$\pm 4\text{kV}$ $\pm 4\text{kV}$	Pass
Shell	In-Direct	$\pm 2\text{kV}$ , $\pm 4\text{kV}$	Pass
Shell	Air Discharge	$\pm 2\text{kV}$ , $\pm 4\text{kV}$ , $\pm 8\text{kV}$	Pass
Gap	Air Discharge	$\pm 2\text{kV}$ , $\pm 4\text{kV}$ , $\pm 8\text{kV}$	Pass
Cable	Air Discharge	$\pm 2\text{kV}$ , $\pm 4\text{kV}$ , $\pm 8\text{kV}$	Pass
Connector	Air Discharge	$\pm 2\text{kV}$ , $\pm 4\text{kV}$ , $\pm 8\text{kV}$	Pass

Remark: Calculated measurement uncertainty= 0.2kV

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## 10.0 RF field strength susceptibility (80MHz----- 1000MHz)

### 10.1 Schematics of the test



### 10.2 Test Method:

The test was performed in accordance with EN 61000-4-3:2006+A2:2010

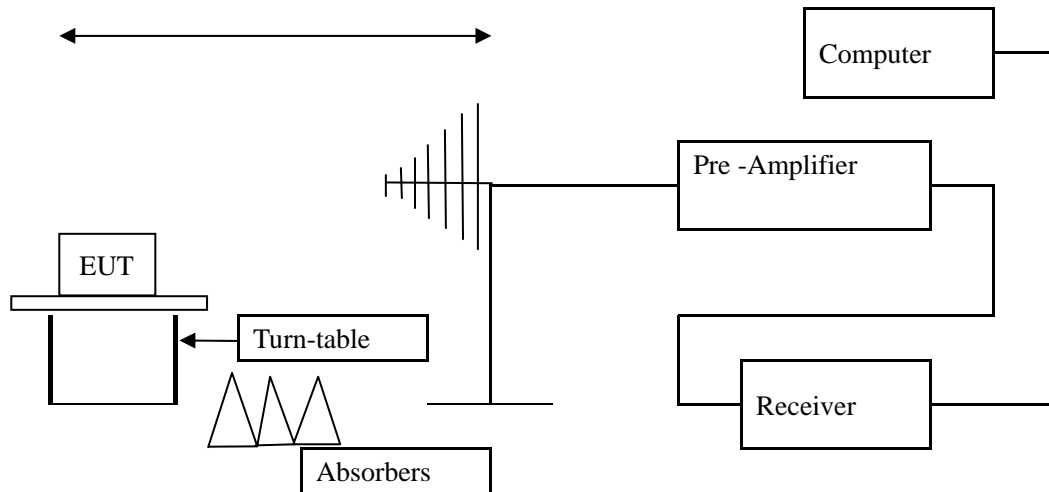
Severity: Level 2 (3V/m)

Modulation: 80% AM

Performance Criterion Require: A (Please see following table)

#### Block diagram of Test setup

Distance = 3m



### 10.3 Susceptibility performance Criteria and severity Level

#### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to damage of equipment(components) or software, or loss of data

#### Severity Level

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Level	Field Strength (V/m)
1	1
2	3
3	10

#### 10.4 Test Result:

Please refer to the following table for individual results.

Frequency (MHz)	Face	Polarity	Level (V/m)	Dwell Time(s)	Sweep Rate (%)	Results
80-1000	0°	Horizontal	3	1	1	Pass
80-1000	90°	Horizontal	3	1	1	Pass
80-1000	180°	Horizontal	3	1	1	Pass
80-1000	270°	Horizontal	3	1	1	Pass
80-1000	0°	Vertical	3	1	1	Pass
80-1000	90°	Vertical	3	1	1	Pass
80-1000	180°	Vertical	3	1	1	Pass
80-1000	270°	Vertical	3	1	1	Pass

Remark: Calculated measurement uncertainty= 80MHz to 1000MHz (+3.7/ -1.3) V/m

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## 11.0 Electrical Fast Transient/Burst (EFT/B) immunity test

### 11.1 Schematics of the test



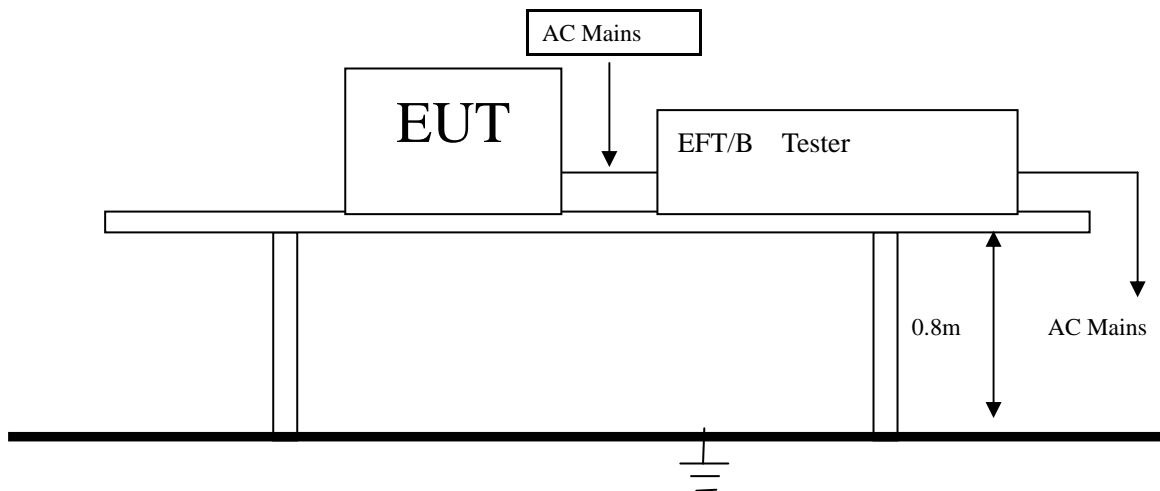
### 11.2 Test Method

The test was performed in accordance with EN 61000-4-4: 2012

Severity: Level 2 (1kV)

Performance Criterion Require: B (Please see following table)

#### Block diagram of Test setup



### 11.3 Susceptibility performance Criteria and Severity Level

#### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to damage of equipment(components) or software, or loss of data

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Severity Level

Open Circuit output Test Voltage $\pm 10\%$		
Level	On power Supply Lines	On I/O (Input/output) Signal data and control lines
1	0.5kV	0.5kV
2	1kV	1kV
3	2kV	2kV
4	4kV	4kV
X	Special	Special

11.4 Test Results

Please refer to following page.

Inject location:

Inject Line	Voltage kV	Inject Times (s)	Method	Results
L	$\pm 1$	120	Direct	Pass
N	$\pm 1$	120	Direct	Pass
L-N	$\pm 1$	120	Direct	Pass

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## 12.0 Surge test

### 12.1 Schematics of the test



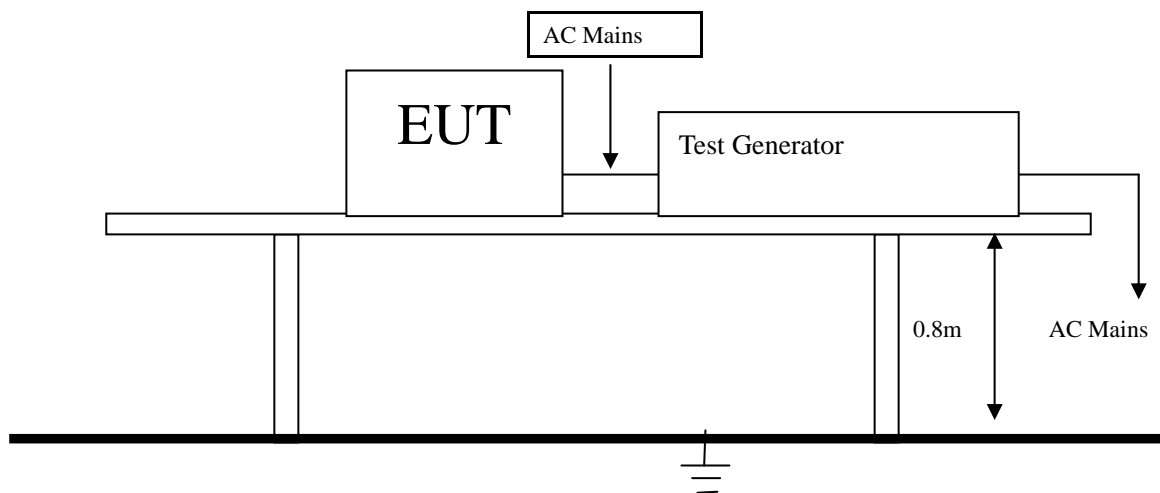
### 12.2 Test Method:

The test was performed in accordance with EN 61000-4-5: 2014+A1:2017

Severity: Level 2 (Below 25W Line to Neutral at 0.5kV)

Performance Criterion Require: C (Please see following table)

#### Block diagram of Test setup



### 12.3 Susceptibility performance Criteria and Severity Level

#### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to damage of equipment(components) or software, or loss of data

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Severity Level

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

12.4 Test Results

Please refer to following page.

Test location:

Location	Polarity	Phase Angle	No of Pulse	Pulse Voltage(kV)	Results
L-N	+	90	10	0.5	Pass
	-	270	10	0.5	Pass

The report refers only to the sample tested and does not apply to the bulk.

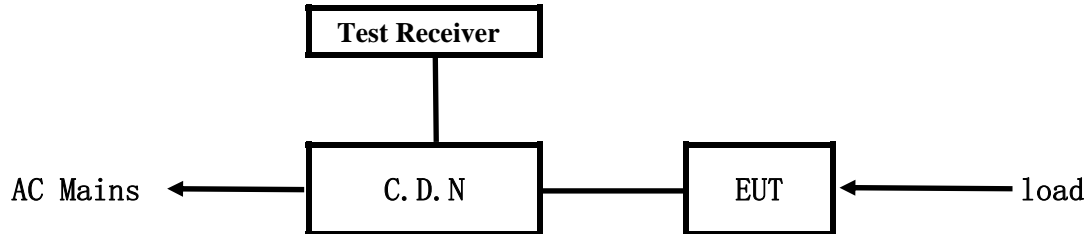
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### 13.0 Conducted Immunity test

#### 13.1 Schematics of the test



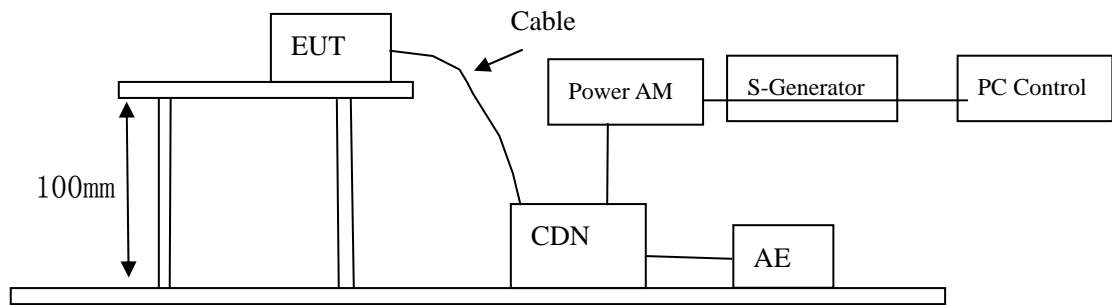
#### 13.2 Test Method

The test was performed in accordance with EN 61000-4-6: 2014

Severity: Level 2 (3 V rms), 0.15MHz—80MHz

Performance Criterion Require: A (Please see following table)

##### Block diagram of Test setup



#### 13.3 Susceptibility performance Criteria and Severity Level

##### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to damage of equipment(components) or software, or loss of data

##### Severity Level

Severity Level	Field Strength V/m
1	1
2	3
3	10
*	Special

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#### 13.4 Test Results

Please refer to the following page

Frequency Range (MHz)	Injected Position	Strength	Criterion	Result
0.15 - 20	AC Line	3V (rms) Unmodulated	A	Pass
20 - 80	AC Line	3V (rms) Unmodulated	A	Pass

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## 14.0 Power Frequency magnetic field test

### 14.1 Schematics of the test



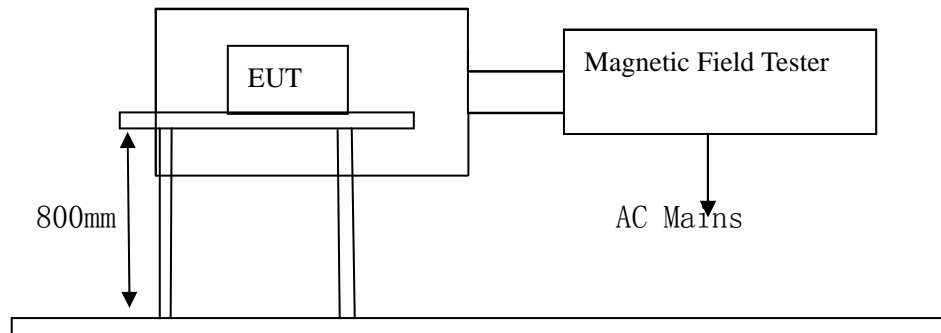
### 14.2 Test Method

The test was performed in accordance with EN 61000-4-8: 2010

Severity: Level 2 (3A/m),

Performance Criterion Require: A (Please see following table)

#### Block diagram of Test setup



### 14.3 Susceptibility performance Criteria and Severity Level

#### Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
D	Degradation or loss of function which is not recoverable due to damage of equipment(components) or software, or loss of data

#### Severity Level

Severity Level	Magnetic Field Strength A/m
1	1
2	3
3	10

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4	30
5	100
*	Special

14.4 Test Results:

Please refer to the following page

Test Level	Testing Duration	Coil Orientation	Criterion	Result
3A/m	5 Mins	Horizontal	A	N/A
3A/m	5 Mins	Vertical	A	N/A

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## 15.0 Voltage Dips/Interruptions immunity test

### 15.1 Schematics of the test

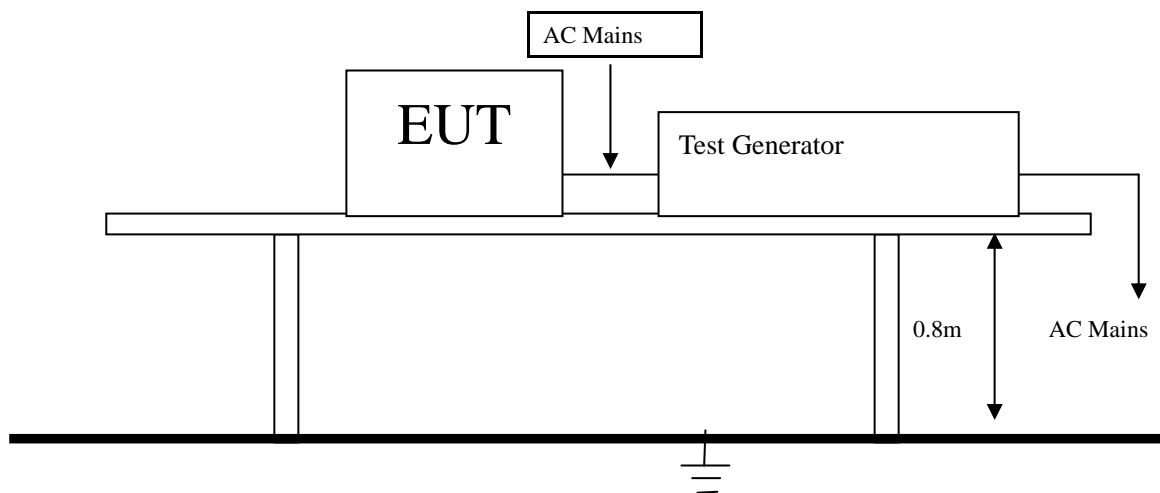


### 15.2 Test Method:

The test was performed in accordance with EN 61000-4-11: 2004+A1:2017

Performance Criterion Require: C&B (Please see following table)

#### Block diagram of Test setup



### 15.3 Susceptibility performance Criteria and Severity Level

Susceptibility performance Criteria

A	Normal performance within the specification limits
B	Temporary degradation or loss of function or performance which is self recoverable
C	Temporary degradation or loss of function or performance which requires operator intervention or system reset
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Severity Level

Test Level % Ut	Voltage dip and short interruptions % Ut	Duration(in period)
0	100	0.5 1 5 10 25 50 *
40	60	
70	30	

15.4 Test Result:

Please refer to the following page

Test Level % Ut	Voltage dips & short interruptions % Ut	Duration(in period)	Phase Angle	Criterion	Result
0	100	0.5P	0° - 360°	B	Pass
70	30	10P	0° - 360°	C	Pass

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## 16.0 Product Labelling

### 16.1 CE Mark label specification

Text of the mark is black or white in color and is left justified. Labels are printed in indelible ink on permanent adhesive backing and shall be affixed at a conspicuous location on the EUT or silk-screened onto the EUT.



### 16.2 Mark Location: Rear enclosure

The report refers only to the sample tested and does not apply to the bulk.

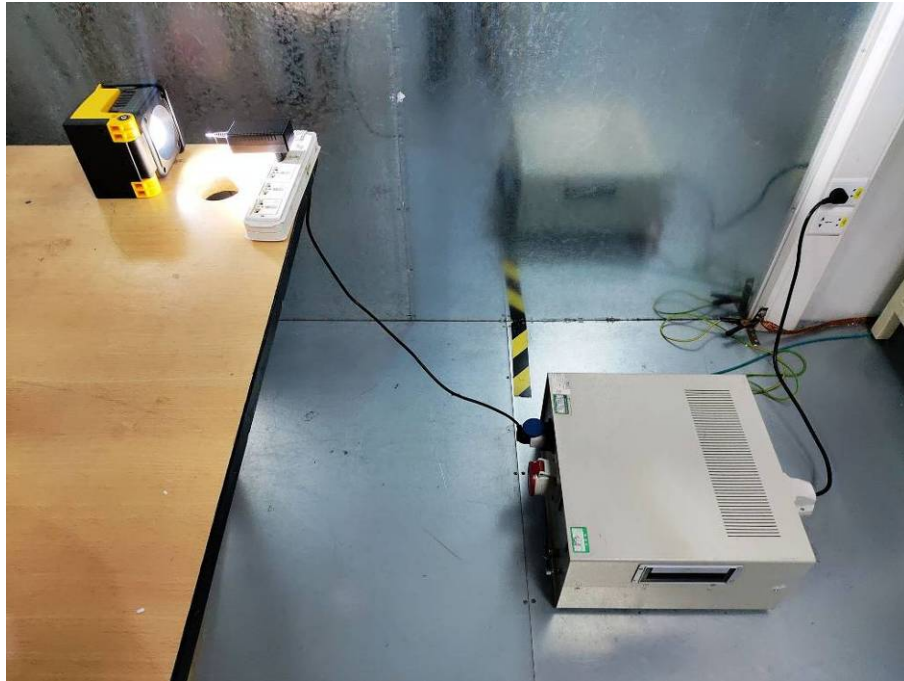
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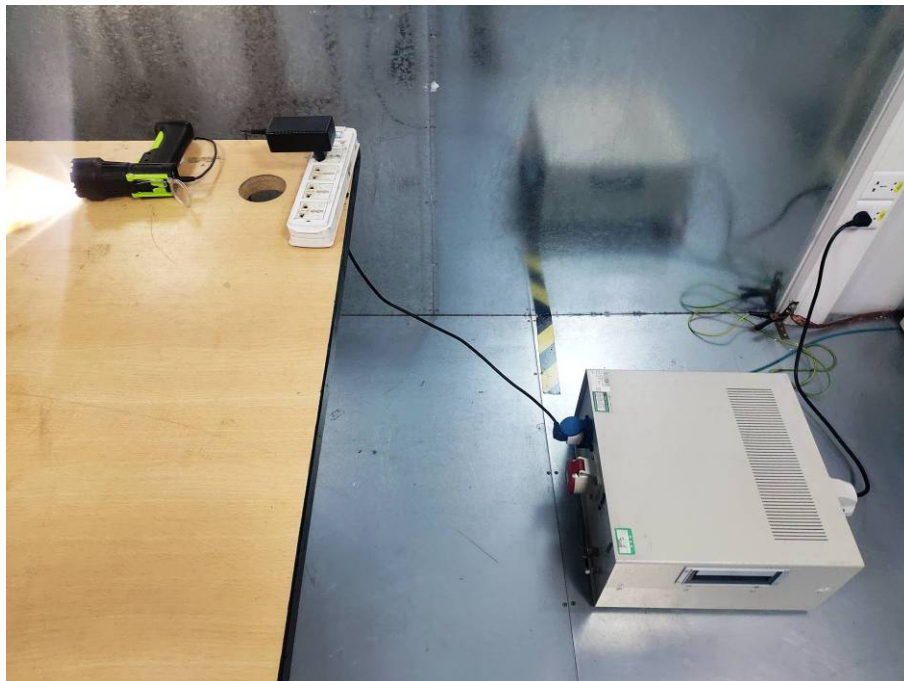


Appendix:  
Conducted Emissions

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Model : ZYJ099-COB



Model : ZYJ066

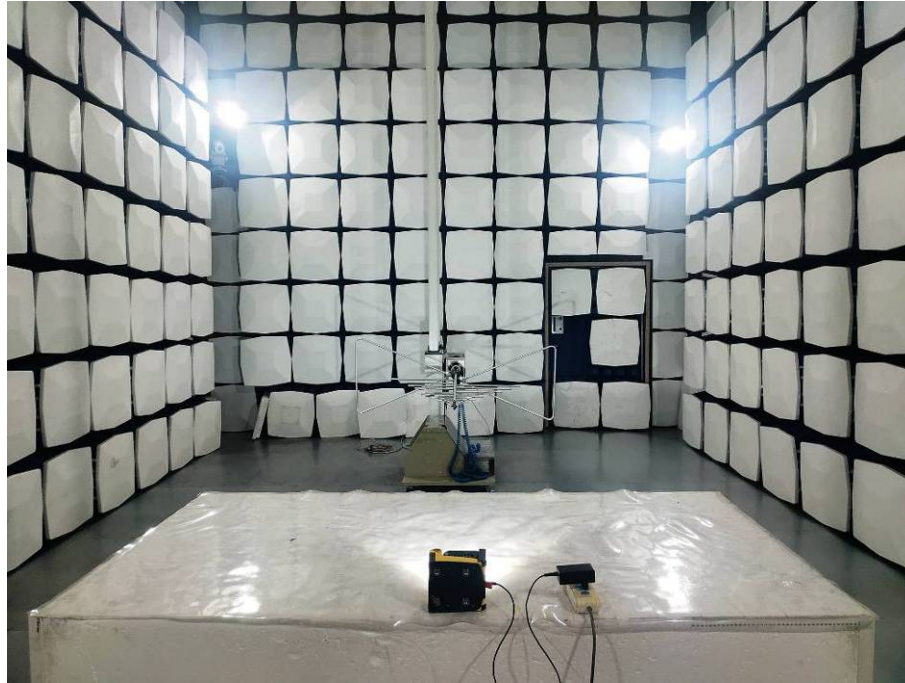
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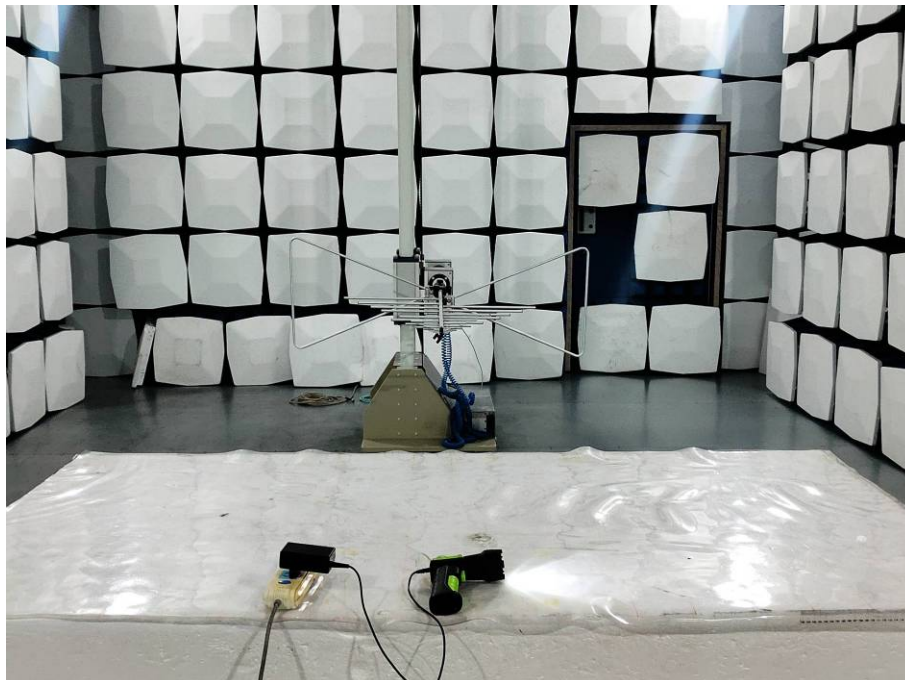
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Photograph –Radiated Emissions



Model : ZYJ099-COB



Model : ZYJ066

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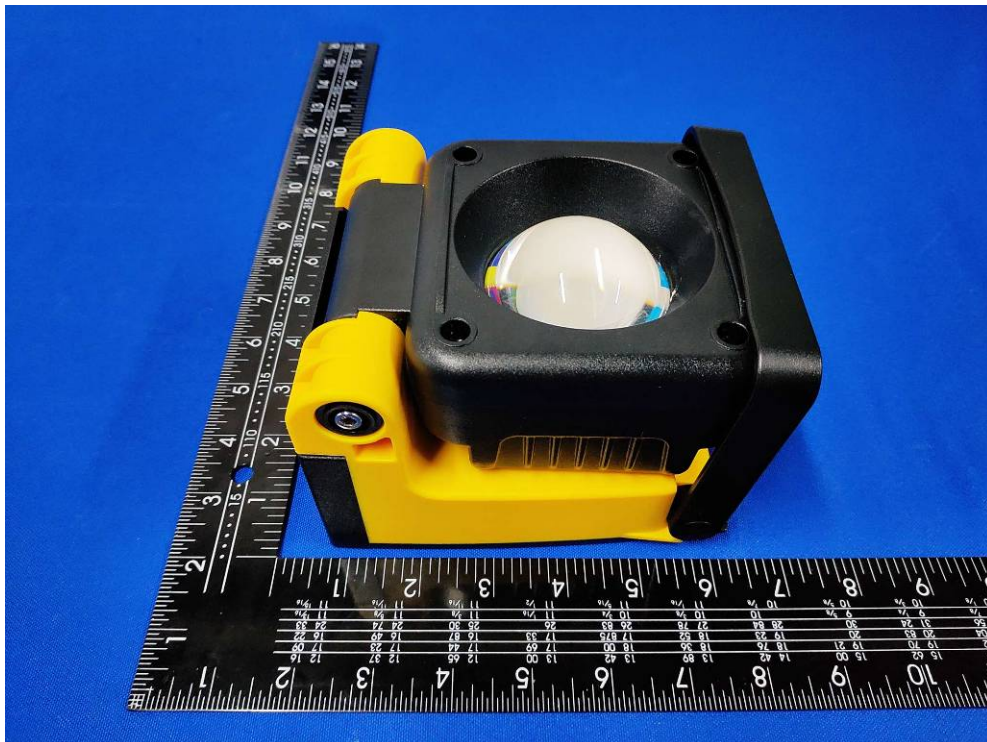




Photos of the Product- Model : ZYJ099-COB, ZYJ066, ZYJ055, ZYJ007B, ZYJ011F



Model : ZYJ099-COB



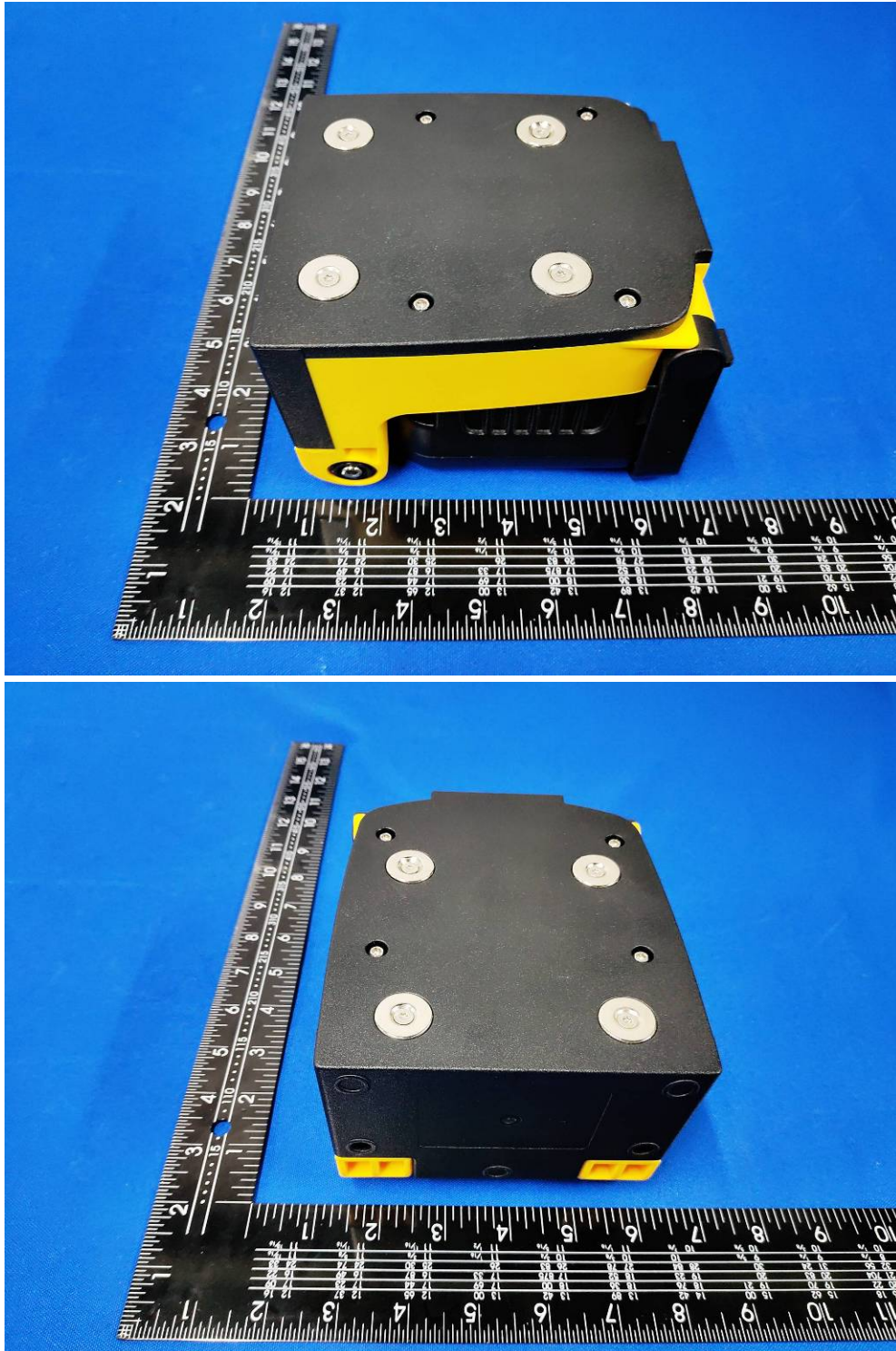
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Photos of the Product - Model : ZYJ099-COB



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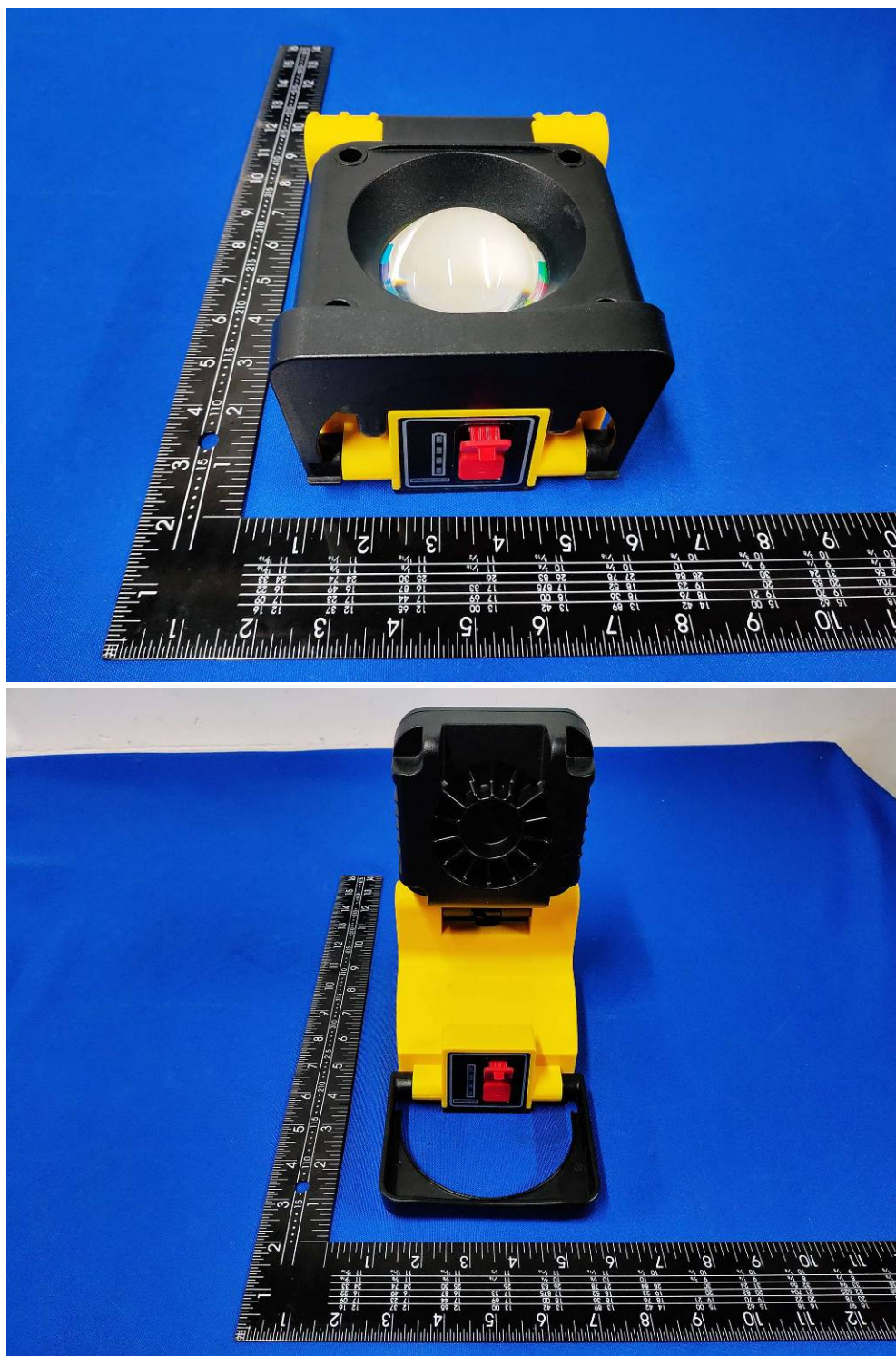
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Photos of the Product - Model : ZYJ099-COB



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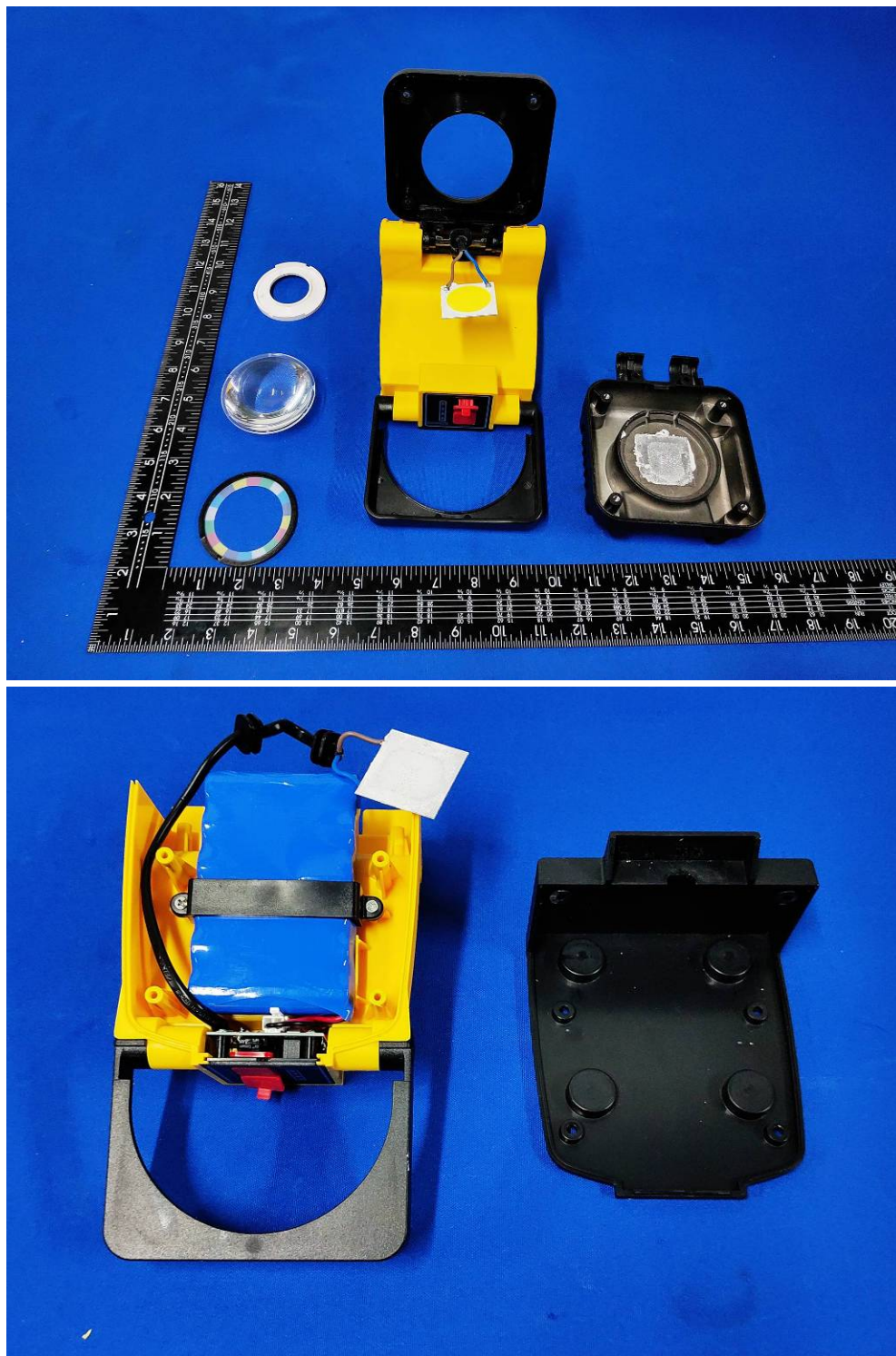
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Photos of the Product - Model : ZYJ099-COB



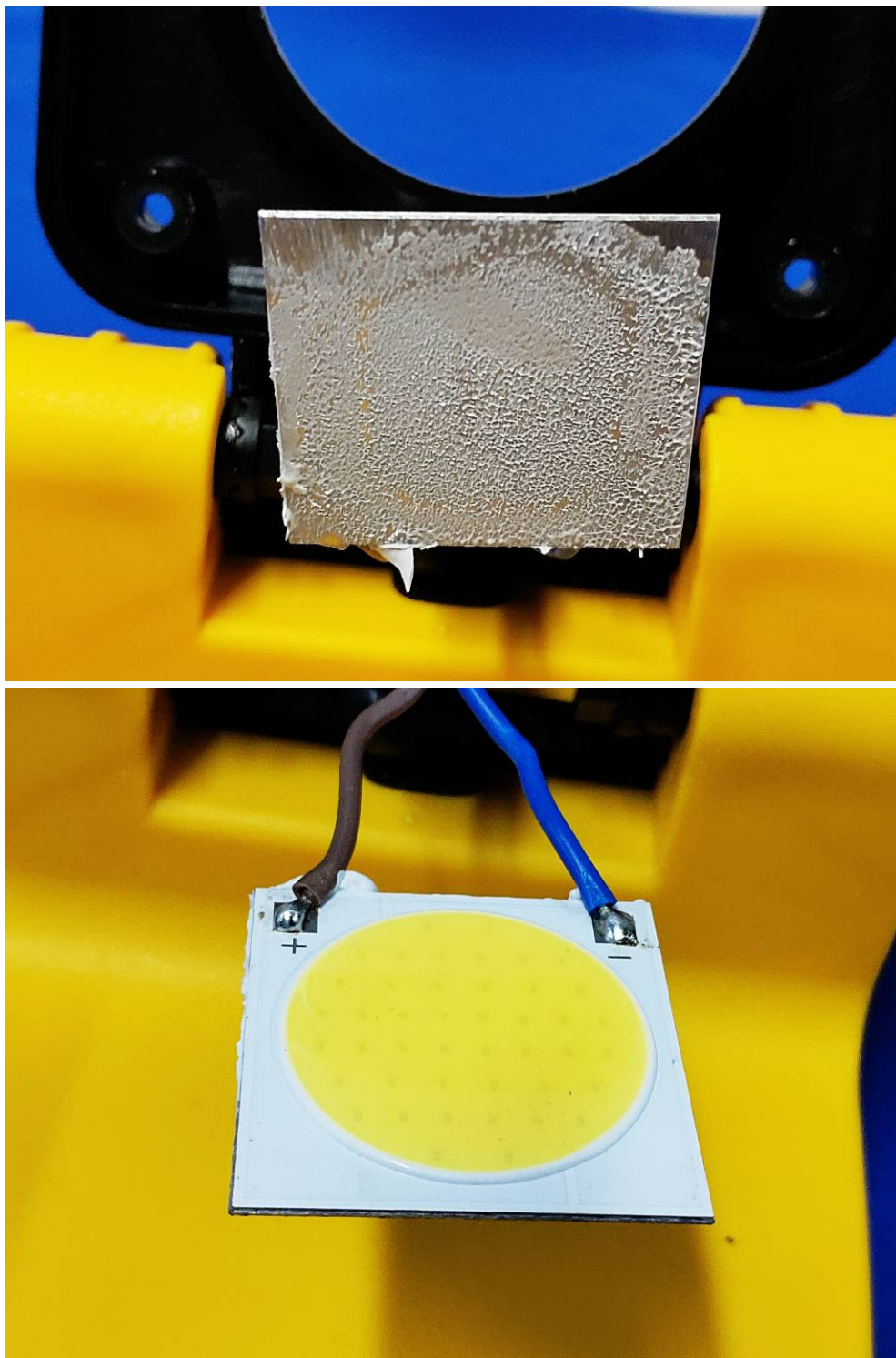
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Photos of the Product - Model : ZYJ099-COB



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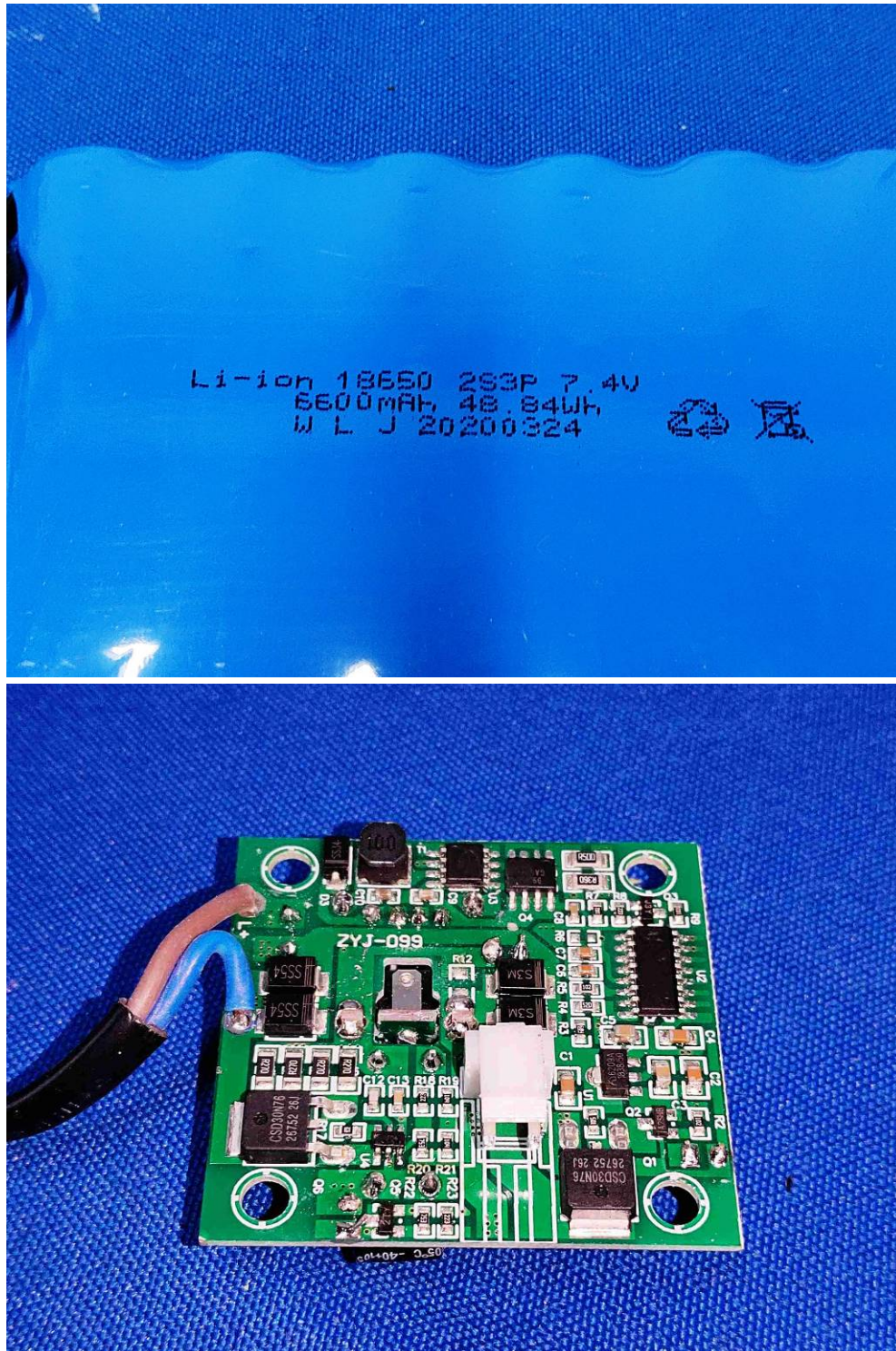
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Photos of the Product - Model : ZYJ099-COB



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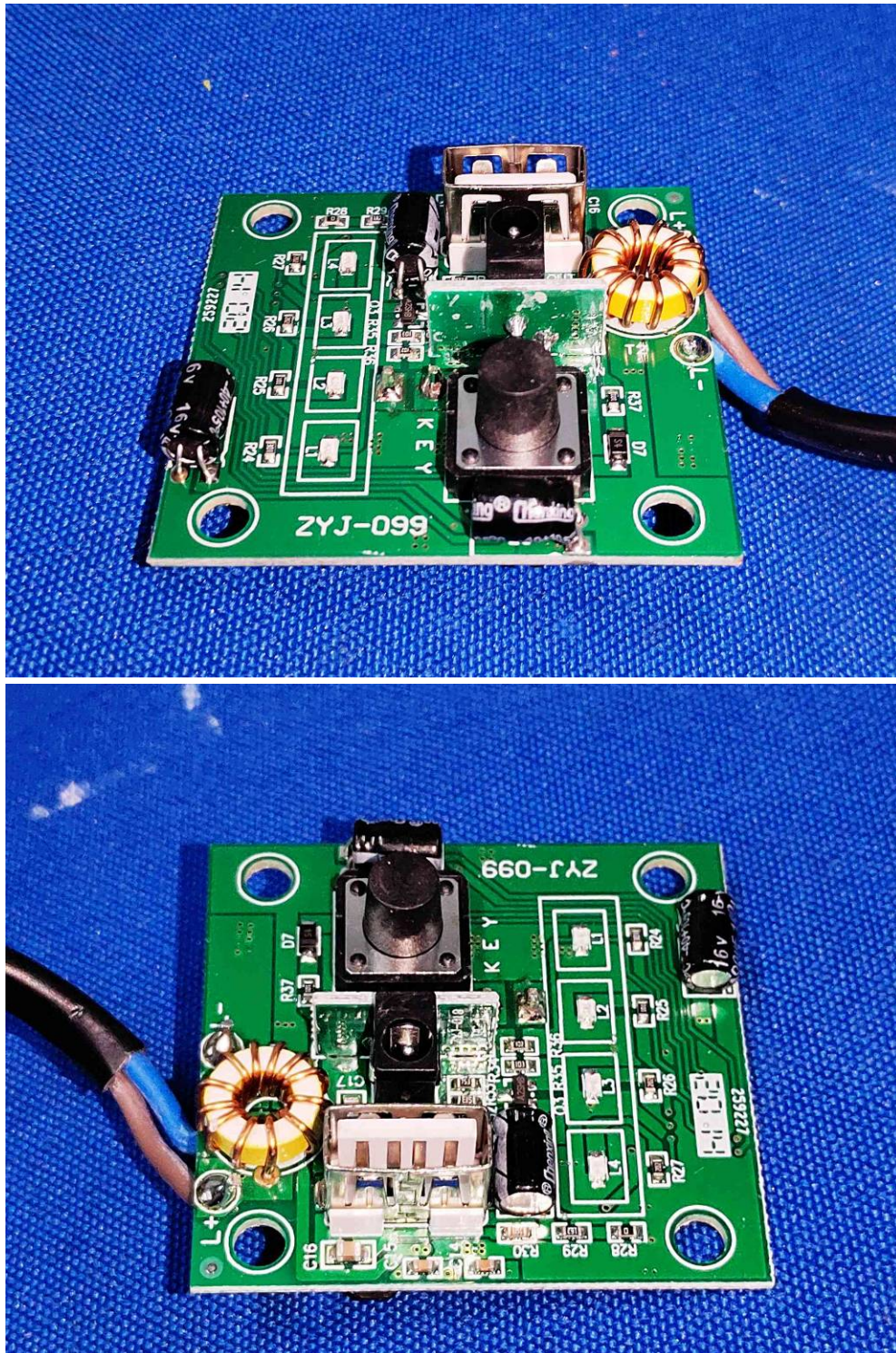
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Photos of the Product - Model : ZYJ099-COB



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Photos of the Product - Model : ZYJ066



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Photos of the Product - Model : ZYJ066



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Photos of the Product - Model : ZYJ066



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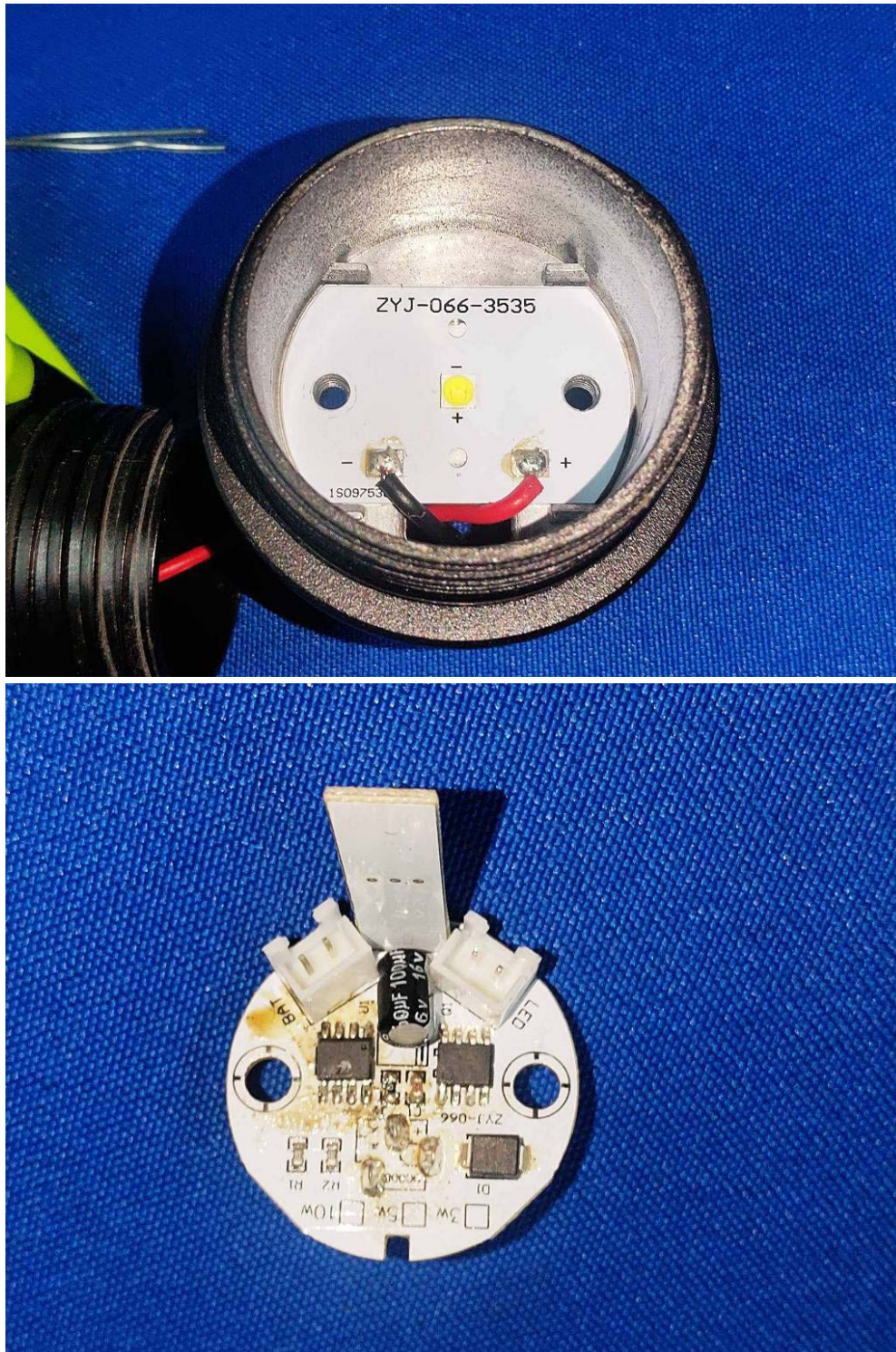
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Photos of the Product - Model : ZYJ066



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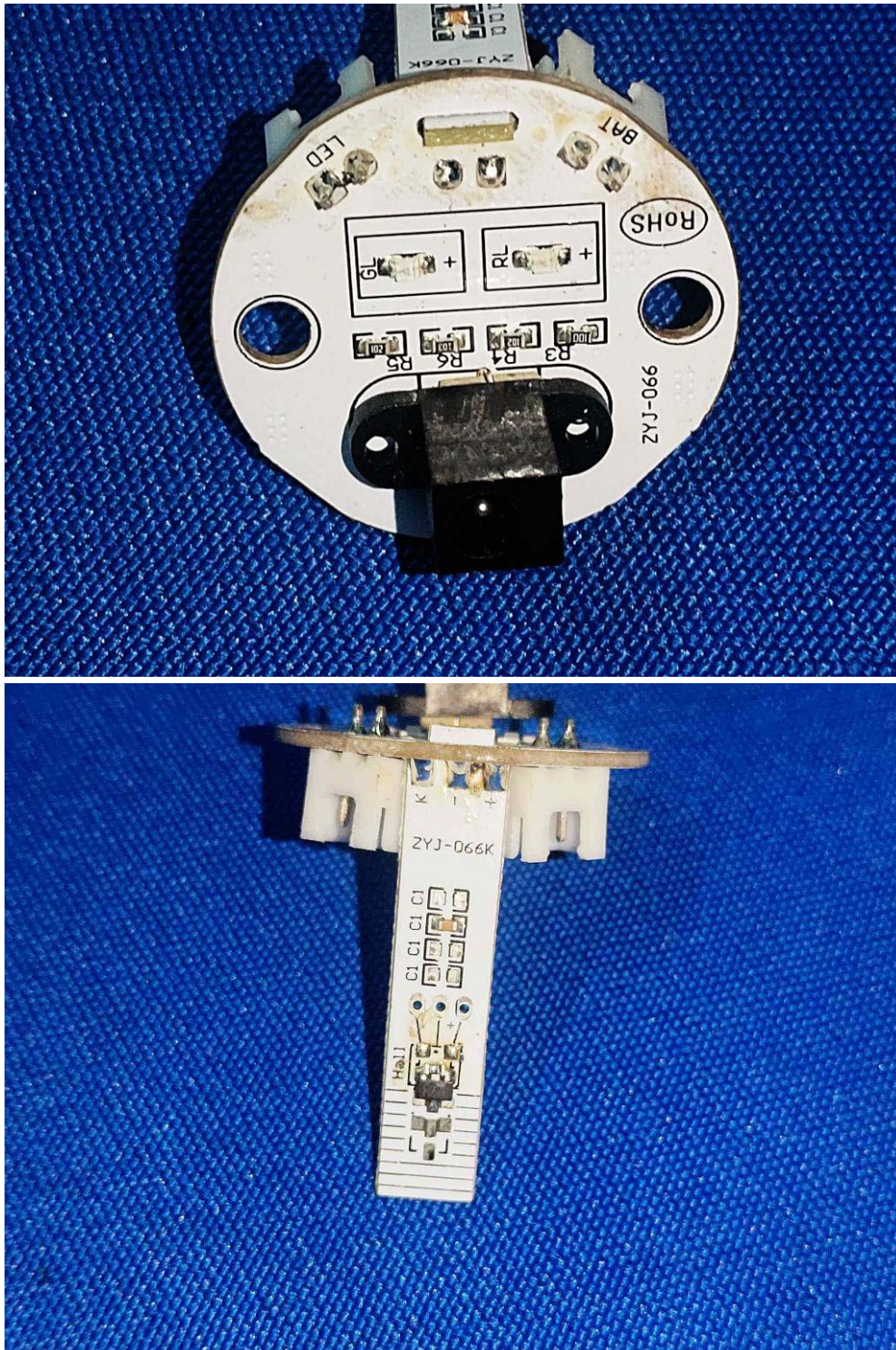
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Photos of the Product - Model : ZYJ066



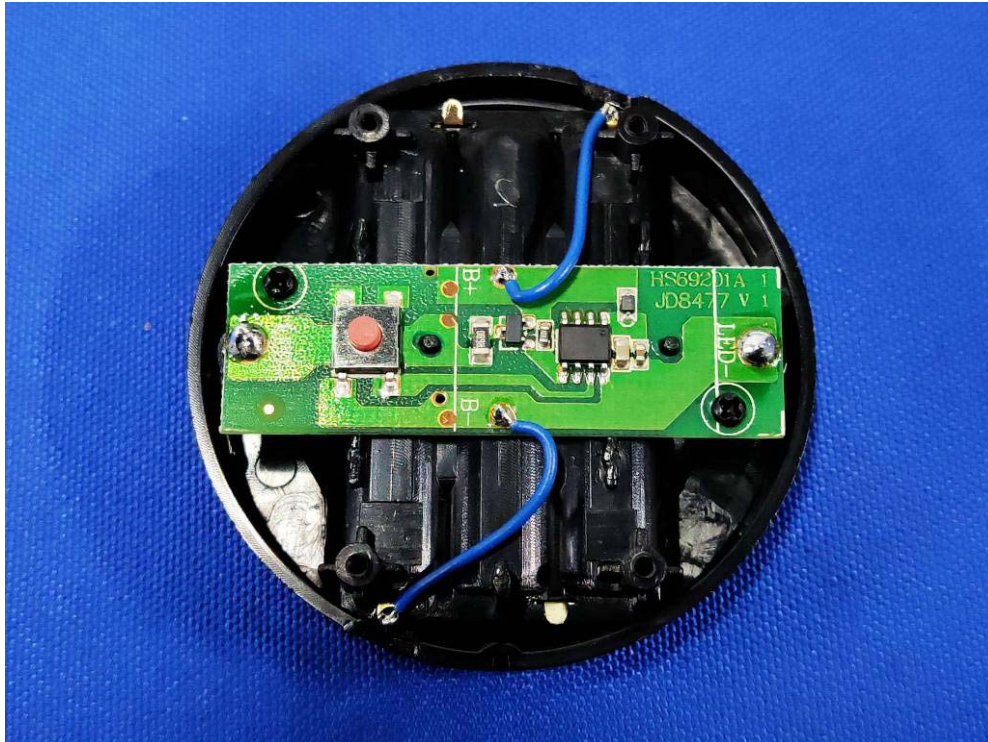
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Photos of the Product - Model : ZYJ066



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Photos of the Product- Model :ZYJ007B



Photos of the Product- Model : ZYJ011F



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Photos of the Product- Model : ZYJ055



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Model : ZYJ011F



Model : ZYJ033

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Model : ZYJ007A



Model : ZYJ005A

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Model : ZYJ005B



Model : ZYJ015-COB

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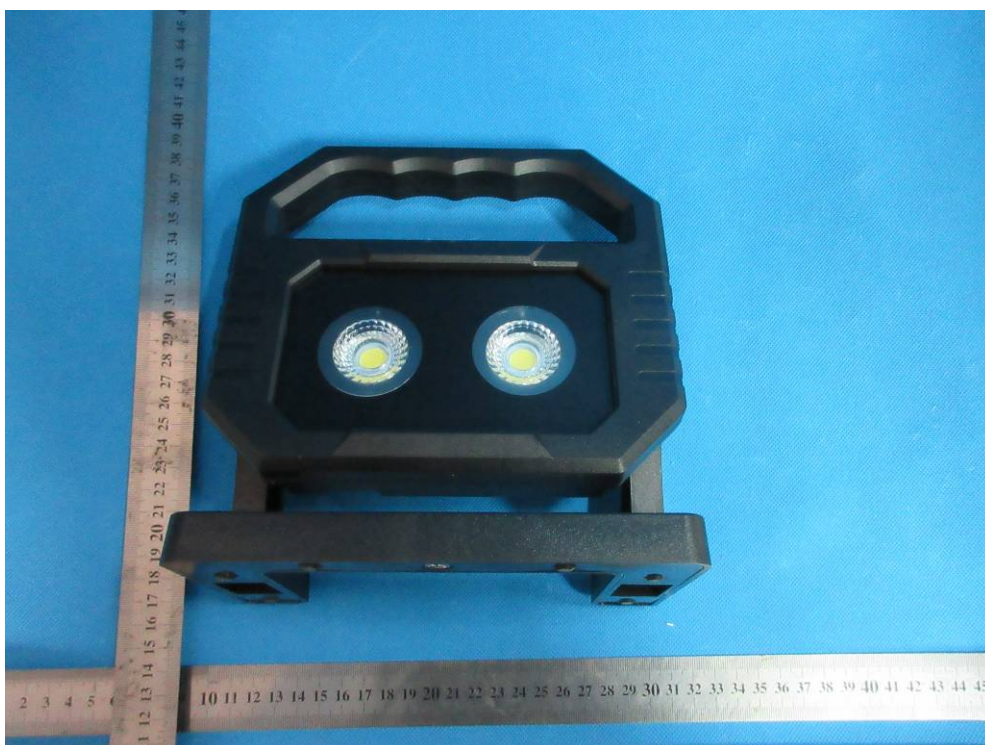
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Model : ZYJ027B



Model : ZYJ036F

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Model : ZYJ056



Model : ZYJ099-8L

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Model : ZYJ099-50SMD



Model : ZYJ-JM-001

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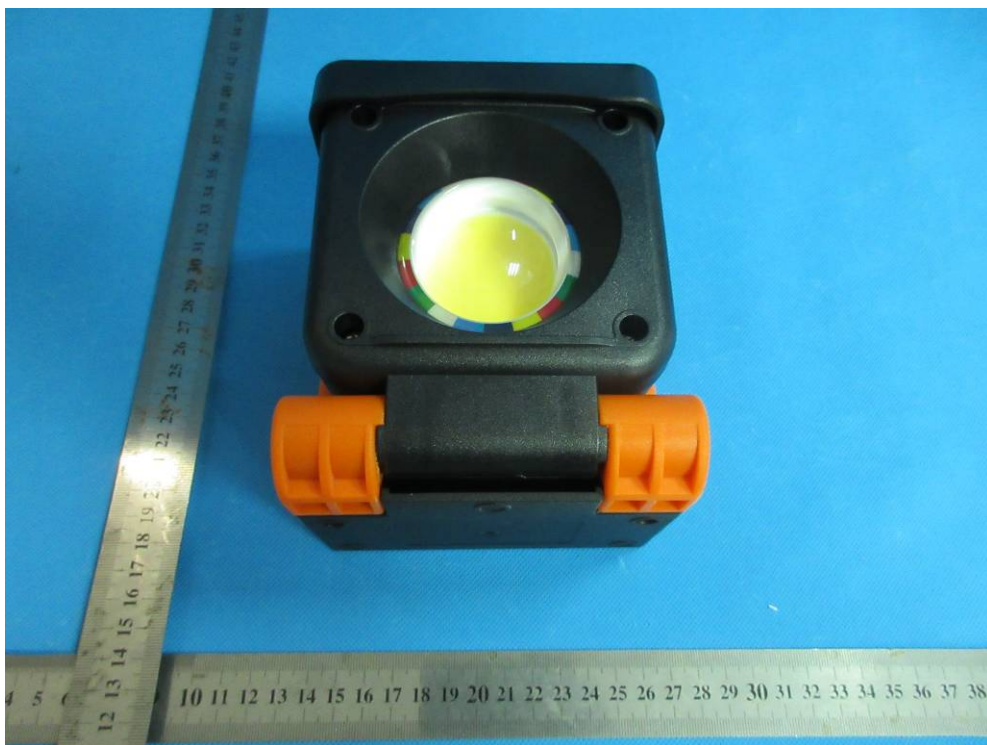
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Model : ZYJ066



Model : ZYJ099-COB

**-End of the report-**

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