

Test Report

Number: SHAH01391136

Applicant: YUYAO CITY YIHUAN LIGHTING ELECTRIC
FACTORY
NO.1,ERQIU ROAD, XIEJIALU VILLAGE,
SIMEN TOWN, YUYAO CITY, ZHEJIANG
PROVINCE, CHINA.
Attn: SONG XIANSHENG

Date: 25 Oct, 2021

Sample Description:

One(1) group of submitted sample said to be :

Item Name : **ROPE LIGHT; MICROWIRE LED; NET/CURTAIN LIGHTS; BULBS LIGHT 20PK**
Item No. : **460296;460301;460309;460358**
Quantity : **30sets+components**
Packaging Provided By Applicant : **No**
Goods Exported To : **UK**
Country Of Origin : **China**
P.O. No. : **80192118;80192119;80192122;80192123;80203005;80203006;80203007;
80203008;80203015;80203016;80203017;80203018;80203019;80203020;
80203021;80203022;80203023;80203024;80203025;80203026;80203035;
80203036;80203037;80203038;80203039;80203040;80206036;80206037;
80206040;80206042;80206361;80206363;80206365.**

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

Tested Sample	Standard	Result
Screened components of Submitted Sample	Restriction of the use of certain hazardous substance in electrical and electronic equipment(RoHS Directive 2011/65/EU and (EU) 2015/863)	Pass
(1+2+3), (4+5+6), (7), (8+10), (9+11+14), (12+13)	Short-Chain Chlorinated Paraffins (C10~C13)(SCCPs) requirement in Regulation (EU) 2019/1021 on Persistent Organic Pollutants (POPs)	Pass

To be continued

Authorized By:
Intertek Testing Services Ltd. Zhejiang



Peter Chen
General Manager



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Tests Conducted

1. Certain Hazardous Substance in Electrical and Electronic Equipment

Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and bromine (Br) content were measured with reference to IEC 62321-3-1 Edition 1.0:2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances. And Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs) and Phthalates content were determined by Gas Chromatographic-Mass Spectrometric (GC-MS).

(A) RESULTS:

Part No.	Screened COMPONENTS	REFER INFORMATION	ITEMS	XRF RESULTS	Screened RESULTS (PHTHALATES)	CHEMICAL CONFIRMATION RESULT (MG/KG)	CONCLUSION ON ROHS
1	CABLE SHEATH (CLEAR NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
2	CABLE SHEATH (CLEAR NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
3	LED CHAIN						
3-1	WIRE JACKET (CLEAR NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
3-2	LED	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	



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			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
3-3	WIRE (SILVER METAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	NA		/	
			DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
4	WIRE						
4-1	WIRE JACKET (CLEAR NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
4-2	WIRE (SILVER METAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	NA		/	
			DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
5	PLUG						
5-1	HOLDER (BLACK PLASTIC)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	



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			DBP	NA	P	/	
			DIBP	NA	P	/	
5-2	SUPPORT (BLACK PLASTIC)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
			5-3	PLUG (BLACK PLASTIC)	/	Cd	
Pb	P	/					
Hg	P	/					
Cr	P	/					
Br	P	/					
DEHP	NA	P				/	
BBP	NA	P				/	
DBP	NA	P				/	
6	SCREW (SILVER METAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	NA		/	
			DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
7	HOUSING (BLACK PLASTIC)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
8	SWITCH SHELL (BLACK NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	



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Tests Conducted			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
9	CONTACT PLATE (SILVER METAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	X		Negative	
			Br	NA	/		
			DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
10	WIRE						
10-1	WIRE JACKET (WHITE NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P	/		
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
10-2	WIRE JACKET (YELLOW NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P	/		
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
10-3	WIRE (COPPER METAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	NA	/		
			DEHP	NA	NA	/	
			BBP	NA	NA	/	



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Tests Conducted			DBP	NA	NA	/	
			DIBP	NA	NA	/	
11	PCB						
11-1	IC	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
11-2	CAPACITOR	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
11-3	RESISTOR	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
11-4	DIODE	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
11-5	SWITCH						
11-5-1	SWITCH	/	Cd	P	NA	/	PASS



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Tests Conducted (BLACK PLASTIC)			Pb	P		/		
			Hg	P		/		
			Cr	P		/		
			Br	P		/		
			DEHP	NA	P	/		
			BBP	NA	P	/		
			DBP	NA	P	/		
			DIBP	NA	P	/		
11-5-2	SUPPORT (SILVER METAL)	/	Cd	P	NA	/	PASS	
			Pb	P		/		
			Hg	P		/		
			Cr	P		/		
			Br	NA		/		
			DEHP	NA		NA		/
			BBP	NA		NA		/
			DBP	NA		NA		/
11-5-3	CONTACT PLATE (SILVER METAL)	/	Cd	P	NA	/	PASS	
			Pb	P		/		
			Hg	P		/		
			Cr	X		Negative		
			Br	NA		/		
			DEHP	NA		NA		/
			BBP	NA		NA		/
			DBP	NA		NA		/
11-5-4	SPRING (SILVER METAL)	/	Cd	P	NA	/	PASS	
			Pb	P		/		
			Hg	P		/		
			Cr	P		/		
			Br	NA		/		
			DEHP	NA		NA		/
			BBP	NA		NA		/
			DBP	NA		NA		/
11-5-5	SHEET (BROWN PLASTIC)	/	Cd	P	NA	/	PASS	
			Pb	P		/		
			Hg	P		/		
			Cr	P		/		
			Br	P		/		
			DEHP	NA		P		/



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			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
11-6	PCB	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	X		PBB=ND PBDE=ND	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
			12	TAPE (WHITE NONMETAL)	/	Cd	
Pb	P	/					
Hg	P	/					
Cr	P	/					
Br	P	/					
DEHP	NA	P				/	
BBP	NA	P				/	
DBP	NA	P				/	
DIBP	NA	P				/	
13	HOUSING (BLACK PLASTIC)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
14	SOLAR PANEL	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
A1	LED CHAIN						



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Item	Material	Result	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP	Other	Overall
A1-1	TAPE (BLACK NONMETAL)	/	Cd	P	NA	/	/	/	/	/	/	/	PASS
			Pb	P									
			Hg	P									
			Cr	P									
			Br	P									
			DEHP	NA	P								
			BBP	NA	P								
			DBP	NA	P								
			DIBP	NA	P								
A1-2	SUPPORT (WHITE PLASTIC)	/	Cd	P	NA	/	/	/	/	/	/	156ppm	PASS
			Pb	P									
			Hg	P									
			Cr	P									
			Br	P									
			DEHP	NA	X								
			BBP	NA	P								
			DBP	NA	P								
			DIBP	NA	P								
A1-3	LED	/	Cd	P	NA	/	/	/	/	/	/	PBB=ND PBDE=ND	PASS
			Pb	P									
			Hg	P									
			Cr	P									
			Br	X									
			DEHP	NA	P								
			BBP	NA	P								
			DBP	NA	P								
			DIBP	NA	P								
A2	WIRE JACKET (BLACK NONMETAL)	/	Cd	P	NA	/	/	/	/	/	/	131ppm	PASS
			Pb	P									
			Hg	P									
			Cr	P									
			Br	P									
			DEHP	NA	X								
			BBP	NA	P								
			DBP	NA	P								
			DIBP	NA	P								
A3	SOLDER (SILVER METAL)	/	Cd	P	NA	/	/	/	/	/	/	/	PASS
			Pb	P									
			Hg	P									
			Cr	P									



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Tests Conducted			Br	NA		/	
			DEHP	NA	NA	/	
			BBP	NA	NA	/	
			DBP	NA	NA	/	
			DIBP	NA	NA	/	
B1	TAPE (WHITE NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
C1	LAMP SHADE (WHITE NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
C2	BASE (BLACK PLASTIC)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	X	637ppm	
			BBP	NA	P	/	
			DBP	NA	P	/	
C3	WIRE JACKET (BLACK NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	



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C4	LED						
C4-1	TAPE (BLACK NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	X	191ppm	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
C4-2	SUPPORT (WHITE PLASTIC)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	X	338ppm	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
D1	WIRE JACKET (CLEAR NONMETAL)	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	
D2	LED	/	Cd	P	NA	/	PASS
			Pb	P		/	
			Hg	P		/	
			Cr	P		/	
			Br	P		/	
			DEHP	NA	P	/	
			BBP	NA	P	/	
			DBP	NA	P	/	
			DIBP	NA	P	/	

P = Pass (Below the lower screening limits of table (B1 or B2))

X = Inconclusive result (Further chemical test was suggested (see table (B1 or B2).))

F = Fail (Exceeded the upper screening limits of table (B1))

NA = Not applicable



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ND = Not detected

µg/cm² = Microgram per square centimeter

NT = Not tested

Negative = The Cr (VI) concentration is less than 0.10 µg/cm². The sample is negative for Cr (VI).

(B) Screening Limits

(B1) XRF Screening Limits in mg/kg for Regulated Elements in Various Matrices (mg/kg):

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 130 \leq F$	$P \leq 70 < X < 150 \leq F$
Pb	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Hg	$P \leq 700 < X < 1300 \leq F$	$P \leq 700 < X < 1300 \leq F$	$P \leq 500 < X < 1500 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 300 < X$	Not applicable	$P \leq 250 < X$

(B2) Preliminary screening test will used for phthalates, if the results exceed the warning area in the following table, further chemical methods will conduct to confirm the exact content by GC/MS. (mg/kg)

Phthalates	Polymer
Bis(2-ethylhexyl)phthalate(DEHP)	$P \leq 600 < X$
Butyl benzyl phthalate(BBP)	$P \leq 600 < X$
Dibutyl phthalate(DBP)	$P \leq 600 < X$
Diisobutyl phthalate(DIBP)	$P \leq 600 < X$

(C) Estimated Detection Limits in mg/kg for Regulated Elements in Various Matrices (mg/kg):

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	50	70	70
Pb	100	200	200
Hg	100	200	200
Cr	100	200	200
Br	200	Not applicable	200

Disclaimers:

This XRF Screening and Chemical Confirmation Test Report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF Screening and Chemical Confirmation Test Report is sufficient for its/his/her purposes.

The results shown in this XRF Screening and Chemical Confirmation Test Report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis is required to obtain quantitative data.

(D) Chemical Test Methods:



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Testing Item	Testing Method	Reporting Limit
Cadmium (Cd) Content	With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES	2 mg/kg
Lead (Pb) Content	With reference to IEC 62321-5 Edition 1.0: 2013, by acid digestion and determined by ICP - OES	2 mg/kg
Mercury (Hg) Content	With reference to IEC 62321-4 Edition 1.1: 2017, by acid digestion and determined by ICP - OES	2 mg/kg
Chromium (VI) (Cr ⁶⁺) Content	With reference to IEC 62321-7-1 Edition 1.0:2015, by boiling water extraction and determined by UV-VIS spectrophotometer	Positive(>0.13 µg/cm ²) / Negative(<0.10 µg/cm ²) / Inconclusive(0.10µg/cm ² --0.13 µg/cm ²)
Chromium (VI)(Cr ⁶⁺) Content	With reference to IEC 62321-7-2 Edition 1.0:2017, by alkaline digestion and determined by UV-VIS Spectrophotometer	10 mg/kg
Polybrominated Biphenyls (PBBs) & Polybrominated Diphenyl Ethers (PBDEs) Content	With reference to IEC 62321-6 Edition 1.0:2015, by solvent extraction and determined by GC/MS and further HPLC confirmation when necessary	5 mg/kg
Phthalates (DEHP, BBP, DBP, DIBP) Content	With reference to IEC 62321-8 Edition 1.0:2017,by solvent extraction and determined by GC/MS	100mg/kg

(E) RoHS Requirement:

Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Chromium (VI) (Cr ⁶⁺)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Phthalates(DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg)

The above limits were quoted from 2011/65/EU and (EU) 2015/863 for homogeneous material.

Date Sample Received: Oct 09, 2021
Testing Period: Oct 09, 2021 to Oct 15, 2021

2. Short-Chain Chlorinated Paraffins (C10-C13)(SCCPs) Content

By solvent extraction,determined by Gas Chromatography-Electron Capture Detector (GC-ECD) and Gas Chromatography-Negative Chemical Ionization-Mass Spectrometry (GC-NCl-MS).

Tested Sample/Component	Result (%. w/w)
(1+2+3)	ND
(4+5+6)	ND
(7)	ND
(8+10)	0.03
(9+11+14)	0.01
(12+13)	ND

Requirement:

Short Chain Chlorinated Paraffin's concentration should be lower than 0.15% in articles under Annex I Part A of the Regulation (EU) 2019/1021 on persistent organic pollutants (POPs).



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Short Chain Chlorinated Paraffin's concentration should be lower than 1% in substances or mixtures under Annex I Part A of the Regulation (EU) 2019/1021 on persistent organic pollutants (POPs).

Remark: Detection Limit = 0.01% (w/w)

ND = Not detected

Tested Components: See component list in the last section of this report.

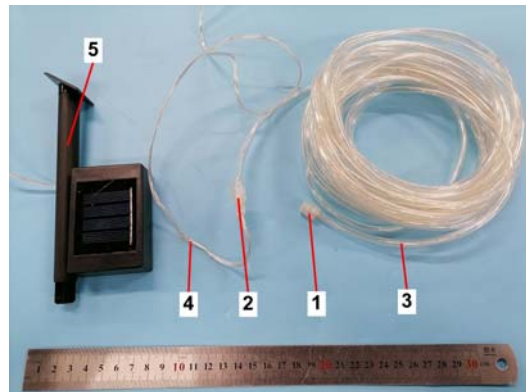
Date Sample Received: Oct 09, 2021

Testing Period: Oct 09, 2021 to Oct 15, 2021

Components List:

Tested components:

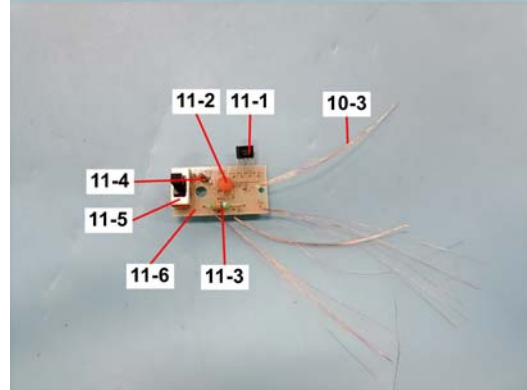
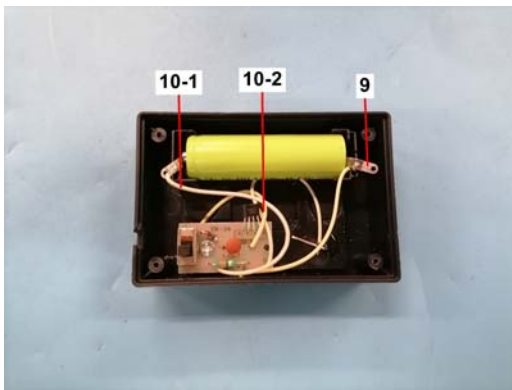
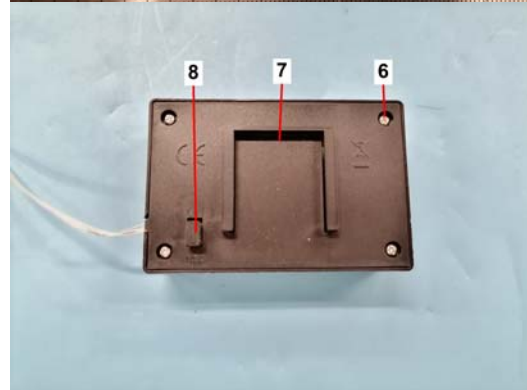
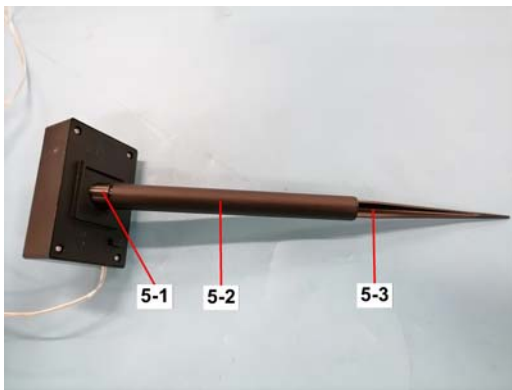
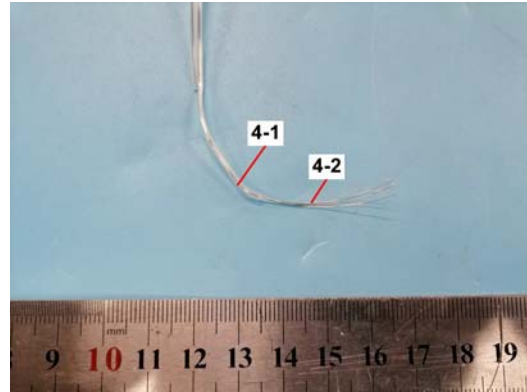
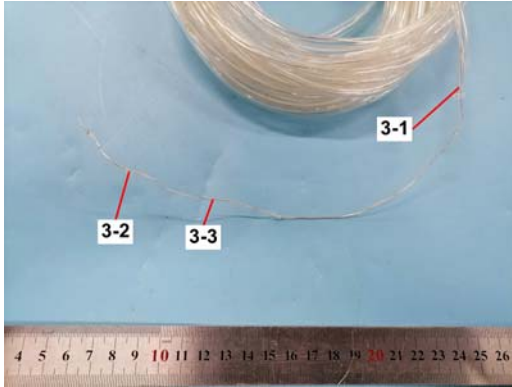
- (1) 5-1 Black plastic (holder)
- (2) 5-2 Black plastic (support)
- (3) 5-3 Black plastic (plug)
- (4) 7 Black frosted plastic (housing)
- (5) 11-5-1 Black plastic (switch)
- (6) 11-5-5 Brown plastic (sheet)
- (7) 11-6 PCB
- (8) 13 Black smooth plastic (housing)
- (9) A1-1 Black soft plastic (tape)
- (10) A1-2 White plastic (support)
- (11) B1-1 White soft plastic (tape)
- (12) C1 White plastic (lamp shade)
- (13) C2 Black plastic (base)
- (14) C4-1 Black soft plastic (tape)



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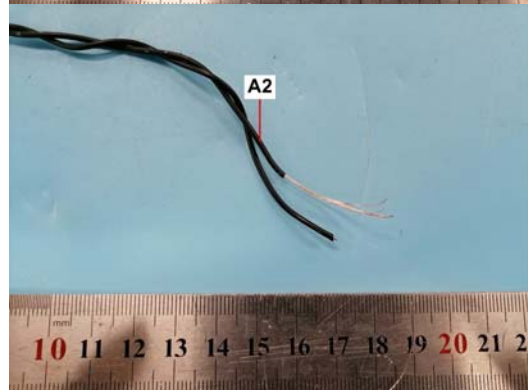
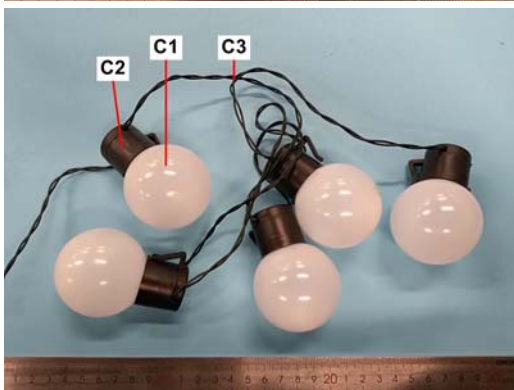
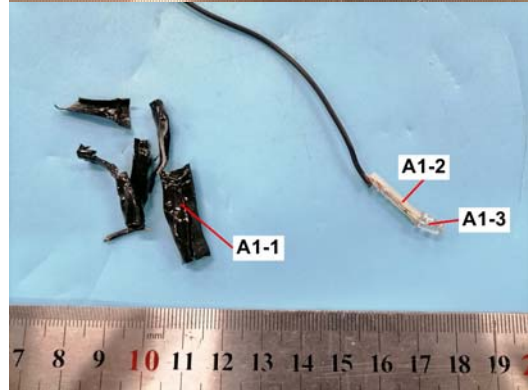
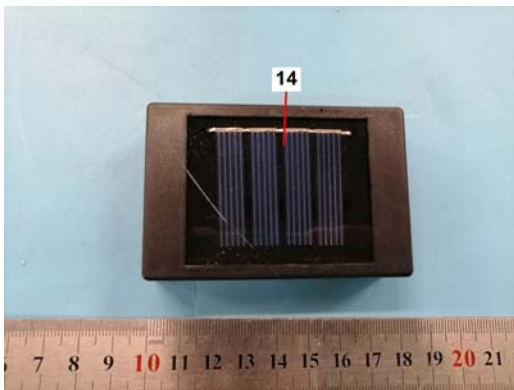
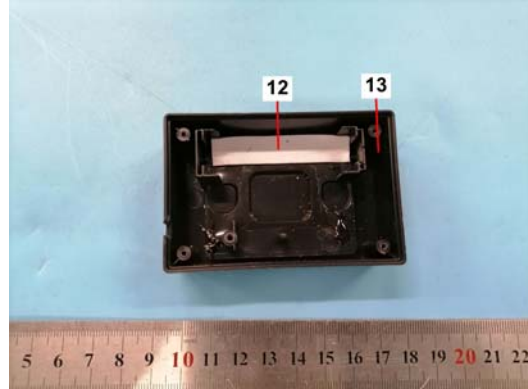
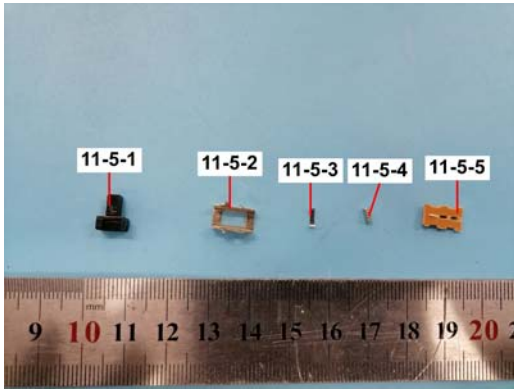
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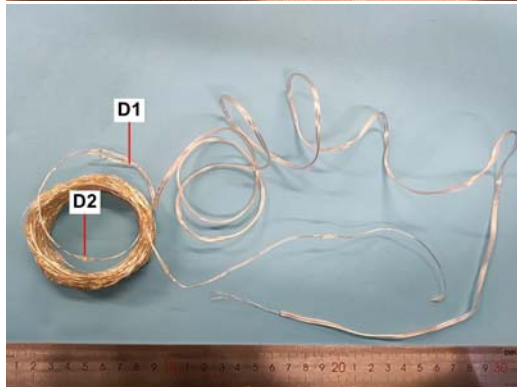
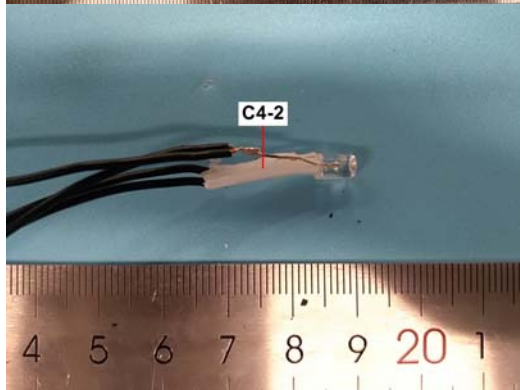
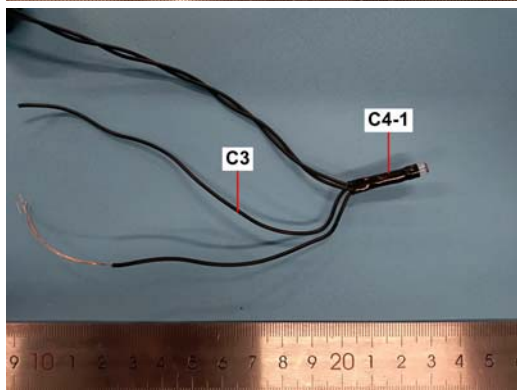
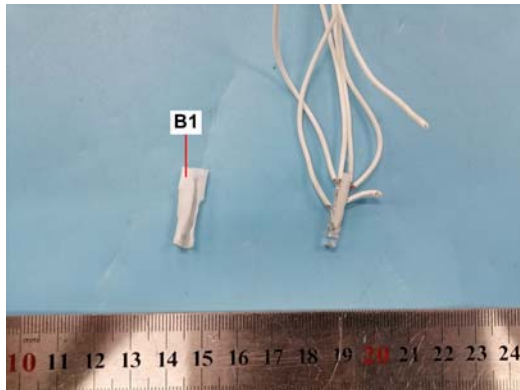
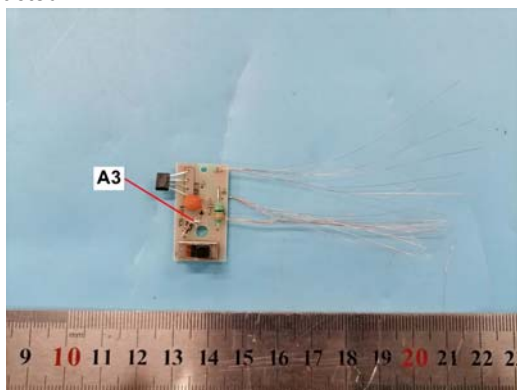
Tests Conducted



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Tests Conducted



End of report

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