

Test Report

Report No.:MG26G3177R

Date:Aug. 06, 2026

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Applicant: Mid Ocean Brands B.V.
Address: Unit 711-716, 7/F., Tower A, 83 King Lam Street,
Cheung Sha Wan, Kowloon, Hong Kong.
Manufacturer: 117486
Address: N/A

The following sample(s) was /were submitted and identified on behalf of the clients as:

Sample Name: 2 in 1 desk lamp and torch
Sample Model: MO2994
Series Model: /
Sample Received Date: July 14, 2026
Testing Period: July 14, 2026 to July 20, 2026

Test Requested

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

Approved by:

Jack Leung

Jack Leung/ Technical Manager



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Summary of Test Results:

Test Requirement	Conclusion
European RoHS Directive 2011/65/EU and amendment (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment & EN IEC 63000:2018 Technical documentation for the assessment of electrical and electronic products with respect to the restriction of hazardous substances.	
1. To determine Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs)content by screening test and chemical test.	Pass
2. To determine Phthalates (DBP, BBP, DEHP, DIBP) content by chemical test.	Pass

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Test Method:

A. Screening test by XRF spectroscopy

XRF Screening Limits for Regulated Elements in Various Matrices according to IEC 62321-3-1:2013

Element	Screening limit (mg/kg)			MDL	
	Polymer Materials	Metallic Materials	Composite Materials	Polymers	Other material
Pb	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma \leq X < 1500 + 3\sigma \leq OL$	10mg/kg	50mg/kg
Cd	$BL \leq 70 - 3\sigma \leq X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma \leq X < 130 + 3\sigma \leq OL$	$LOD < X < 150 + 3\sigma \leq OL$	10mg/kg	50mg/kg
Hg	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma \leq X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma \leq X < 1500 + 3\sigma \leq OL$	10mg/kg	50mg/kg
Cr	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$	10mg/kg	50mg/kg
Br	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$	10mg/kg	50mg/kg

- Note:**
- BL = Under the XRF screening limit
 - OL = Future chemical test will be conducted while result is above the screening limit
 - X =The symbol“X”marks the region where further investigation in necessary
 - 3σ =The reproducibility of analytical instruments
 - MDL= Method Detection limit

B. Chemical Test

Test Item(s)	Test Method	Analysis Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015	UV-VIS	0.10 μ g/cm ²	1000mg/kg
	IEC 62321-7-2:2017		8 mg/kg	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	5 mg/kg	1000mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	5 mg/kg	1000mg/kg
Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg

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Test Results:

1. Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr) and Bromine (Br) content were measured with reference to IEC 62321-3-1:2013 by XRF spectroscopy and chemical confirmation test for RoHS restricted substances.

No.	XRF screening Result					Chemical confirm Result (mg/kg)	Conclusion
	Pb	Cd	Hg	Cr	Br		
1	BL	BL	BL	BL	BL	--	Pass
2	BL	BL	BL	BL	BL	--	Pass
3	BL	BL	BL	BL	BL	--	Pass
4	BL	BL	BL	BL	BL	--	Pass
5	BL	BL	BL	BL	BL	--	Pass
6	BL	BL	BL	BL	BL	--	Pass
7	BL	BL	BL	BL	BL	--	Pass
8	BL	BL	BL	BL	BL	--	Pass
9	BL	BL	BL	BL	--	--	Pass
10	BL	BL	BL	BL	--	--	Pass
11	BL	BL	BL	BL	BL	--	Pass
12	BL	BL	BL	BL	BL	--	Pass
13	BL	BL	BL	BL	BL	--	Pass
14	BL	BL	BL	BL	--	--	Pass
15	BL	BL	BL	BL	--	--	Pass
16	BL	BL	BL	BL	--	--	Pass
17	BL	BL	BL	BL	--	--	Pass
18	BL	BL	BL	BL	BL	--	Pass
19	BL	BL	BL	BL	--	--	Pass
20	BL	BL	BL	BL	--	--	Pass
21	BL	BL	BL	BL	--	--	Pass
22	BL	BL	BL	BL	--	--	Pass
23	BL	BL	BL	BL	BL	--	Pass

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No.	XRF screening Result					Chemical confirm Result (mg/kg)	Conclusion
	Pb	Cd	Hg	Cr	Br		
24	BL	BL	BL	BL	--	--	Pass
25	BL	BL	BL	BL	--	--	Pass
26	BL	BL	BL	BL	BL	--	Pass
27	BL	BL	BL	BL	BL	--	Pass
28	BL	BL	BL	BL	BL	--	Pass
29	BL	BL	BL	BL	BL	--	Pass
30	BL	BL	BL	BL	--	--	Pass
31	BL	BL	BL	BL	--	--	Pass
32	BL	BL	BL	BL	BL	--	Pass
33	BL	BL	BL	BL	BL	--	Pass
34	BL	BL	BL	BL	BL	--	Pass
35	BL	BL	BL	BL	BL	--	Pass
36	BL	BL	BL	BL	BL	--	Pass
37	BL	BL	BL	BL	--	--	Pass
38	BL	BL	BL	BL	BL	--	Pass
39	BL	BL	BL	BL	--	--	Pass
40	BL	BL	BL	BL	BL	--	Pass
41	BL	BL	BL	BL	--	--	Pass
42	BL	BL	BL	BL	--	--	Pass
43	BL	BL	BL	BL	--	--	Pass
44	BL	BL	BL	BL	BL	--	Pass
45	BL	BL	BL	BL	BL	--	Pass
46	BL	BL	BL	BL	--	--	Pass
47	BL	BL	BL	BL	BL	--	Pass
48	BL	BL	BL	BL	BL	--	Pass
49	BL	BL	BL	BL	--	--	Pass
50	BL	BL	BL	BL	BL	--	Pass

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2. Phthalate Content Test

Test Item(s)	Dibutyl Phthalate (DBP)	Butyl benzyl phthalate (BBP)	Di-(2-ethylhexyl) Phthalate (DEHP)	Diisobutyl phthalate (DIBP)	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit	1000	1000	1000	1000	
No.	Test Result (mg/kg)				
1+2+3	N.D.	N.D.	N.D.	N.D.	Pass
4+6+7	N.D.	N.D.	N.D.	N.D.	Pass
5+11+12	N.D.	N.D.	N.D.	N.D.	Pass
8+23	N.D.	N.D.	N.D.	N.D.	Pass
13+18	N.D.	N.D.	N.D.	N.D.	Pass
26+29+32	N.D.	N.D.	N.D.	N.D.	Pass
27+40	N.D.	N.D.	N.D.	N.D.	Pass
28+33+34	N.D.	N.D.	N.D.	N.D.	Pass
35+36+38	N.D.	N.D.	N.D.	N.D.	Pass
44+50	N.D.	N.D.	N.D.	N.D.	Pass
45+47+48	N.D.	N.D.	N.D.	N.D.	Pass

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Remark:

- -- = Not tested
- BL = The result is below the XRF screening limit
- OL = Over Limit
- X = Inconclusive, Future chemical test will be conducted
- mg/kg = milligram per kilogram = ppm
- N.D. = Not Detected(<MDL)
- MDL = Method Detection Limit
- Positive = A positive test result indicated the concentration of Cr(VI) is greater than threshold of 0.13 $\mu\text{g}/\text{cm}^2$ for boiling-water-extraction procedures by visual comparison / by UV-VIS Spectrophotometer analysis. The sample coating is considered to contain Cr(VI).
- Negative = A negative test result indicated the concentration of Cr(VI) is less than threshold of 0.10 $\mu\text{g}/\text{cm}^2$ for boiling-water-extraction procedures by UV-VIS Spectrophotometer analysis. The coating is considered a non-Cr(VI) based coating.
- The results shown in this XRF Screening 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.).If the XRF Screening concentration exceeds,need further chemical testing by ICP-OES (for Cd, Pb,Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed.

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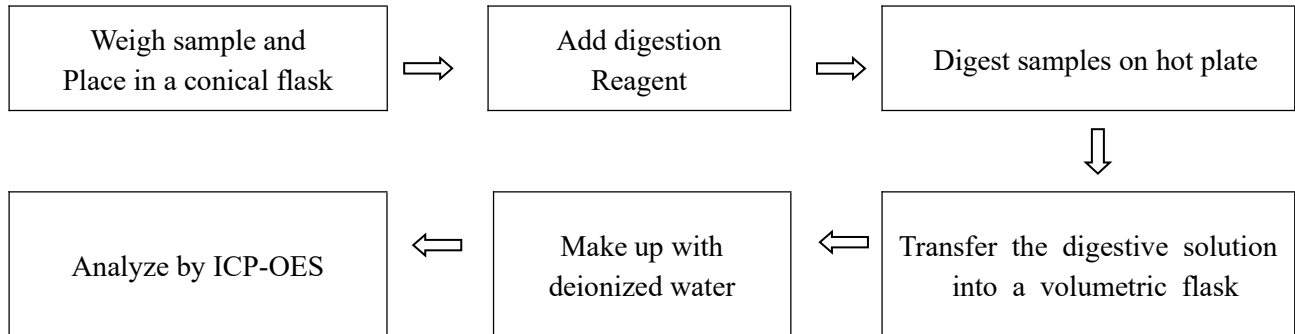
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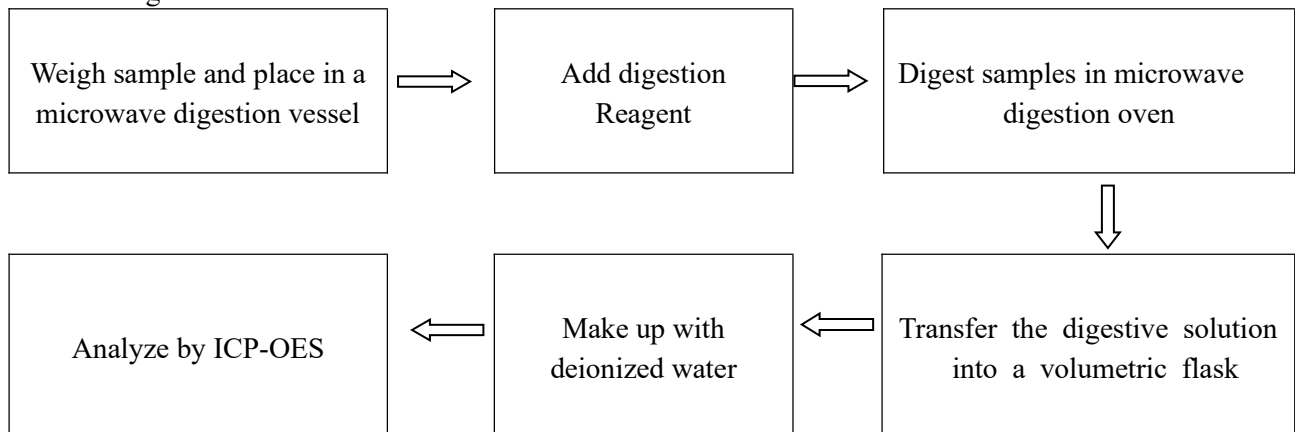
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3. Test Process

1) Test for Cd/Pb Content



2) Test for Hg Content



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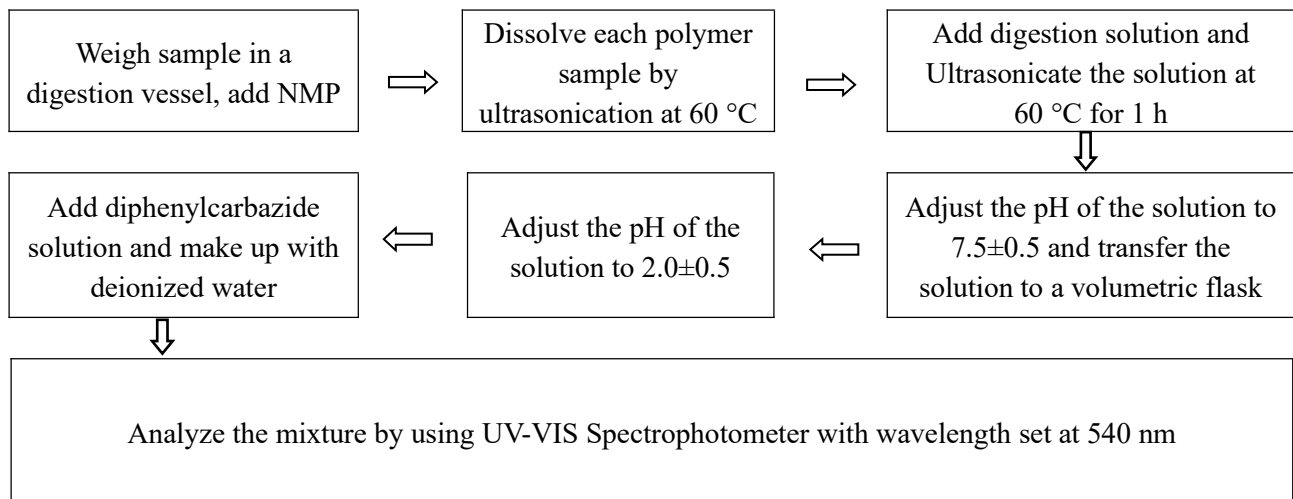
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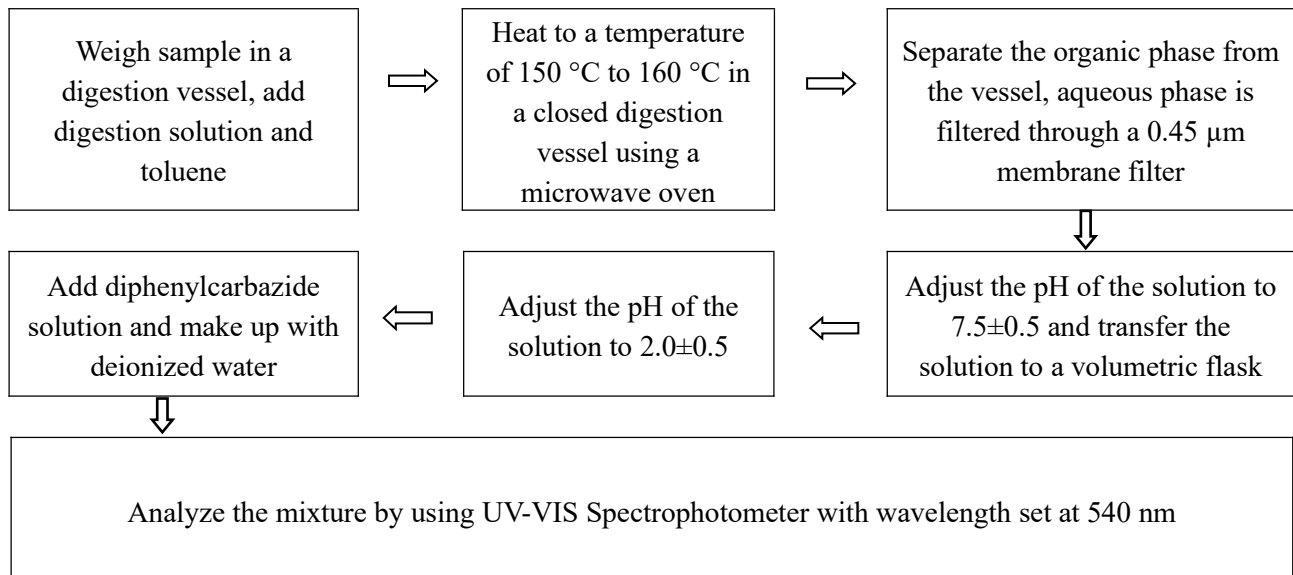
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3) Test for Chromium (VI) Content

a. Soluble polymers:



b. Insoluble/unknown polymers and electronics without Sb



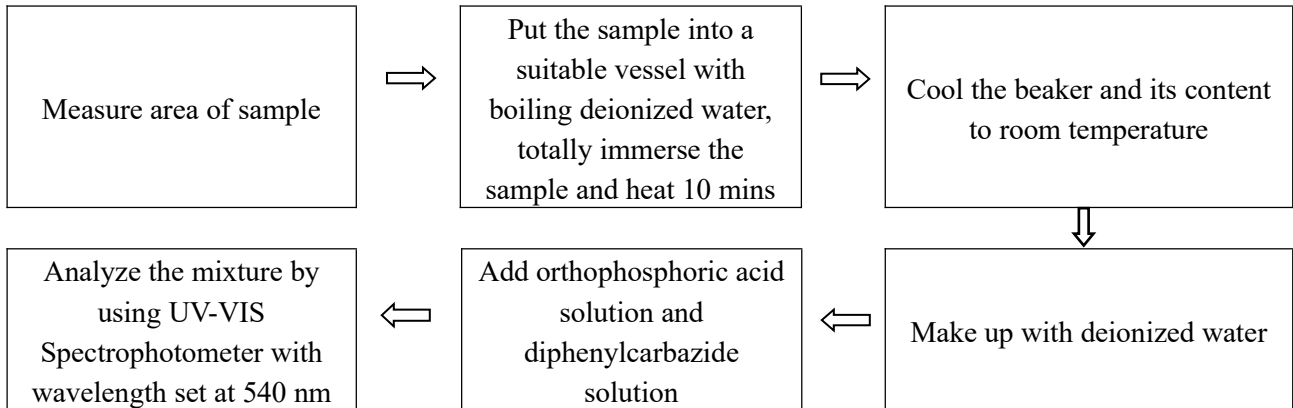
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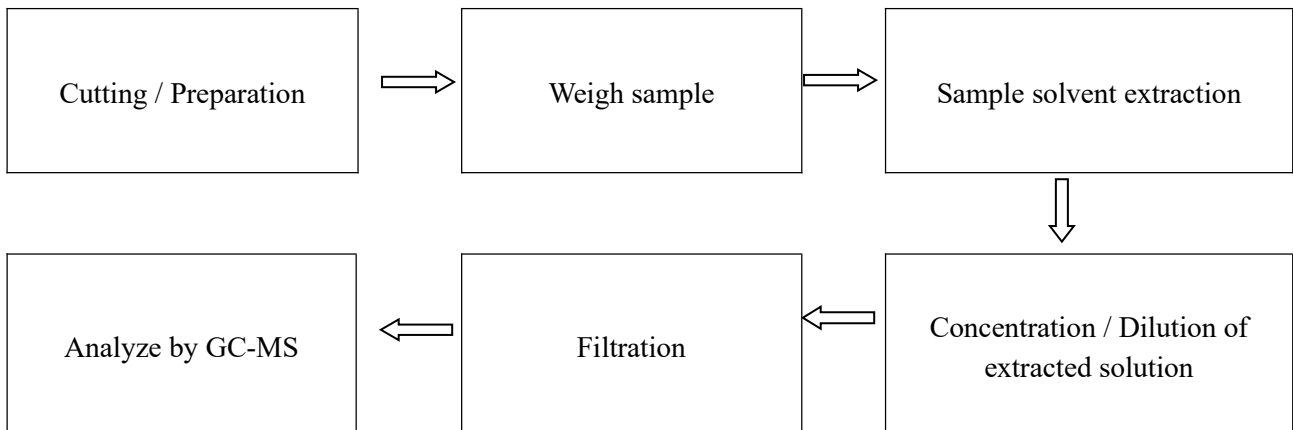
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c. Metal material



4) Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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Sample Description:

No.	Description
1	White soft plastic wire jacket
2	White plastic shell
3	White plastic button
4	Transparent white plastic disc
5	White plastic outer wire cover
6	White plastic TYPE-C interface fixation
7	White plastic USB interface fixation
8	Gray printed white soft plastic sheet
9	Silver metal tube
10	Bronze-colored metal wire core
11	Black plastic inner wire jacket
12	Red plastic inner wire jacket
13	Black plastic outer wire jacket
14	Green metal wire core
15	Red metal wire core
16	Bronze-colored metal wire core
17	Silver metal contact
18	Red plastic wire jacket
19	Silver metal screw
20	Silver metal contact
21	Silver metal USB interface
22	Silver metal contact
23	White plastic USB interface
24	Silver metal Type-C interface
25	Silver metal solder
26	Green PCB
27	Black printed green plastic shell
28	Yellow LED light

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No.	Description
29	White PCB
30	Silver metal solder
31	Silver metal contact pins
32	Green PCB
33	Black IC
34	Black resistor
35	Brown capacitor
36	Black transistor
37	Silver metallic solder
38	White LED light
39	Silver metallic connector
40	White plastic button fixation
41	Silver metal disc
42	Silver metal magnet
43	Silver metal spring
44	Orange LED light
45	Black plastic button
46	Silver metal button base
47	Inner Plastic Base
48	Black plastic plug
49	Silver metal pin
50	Black resistor

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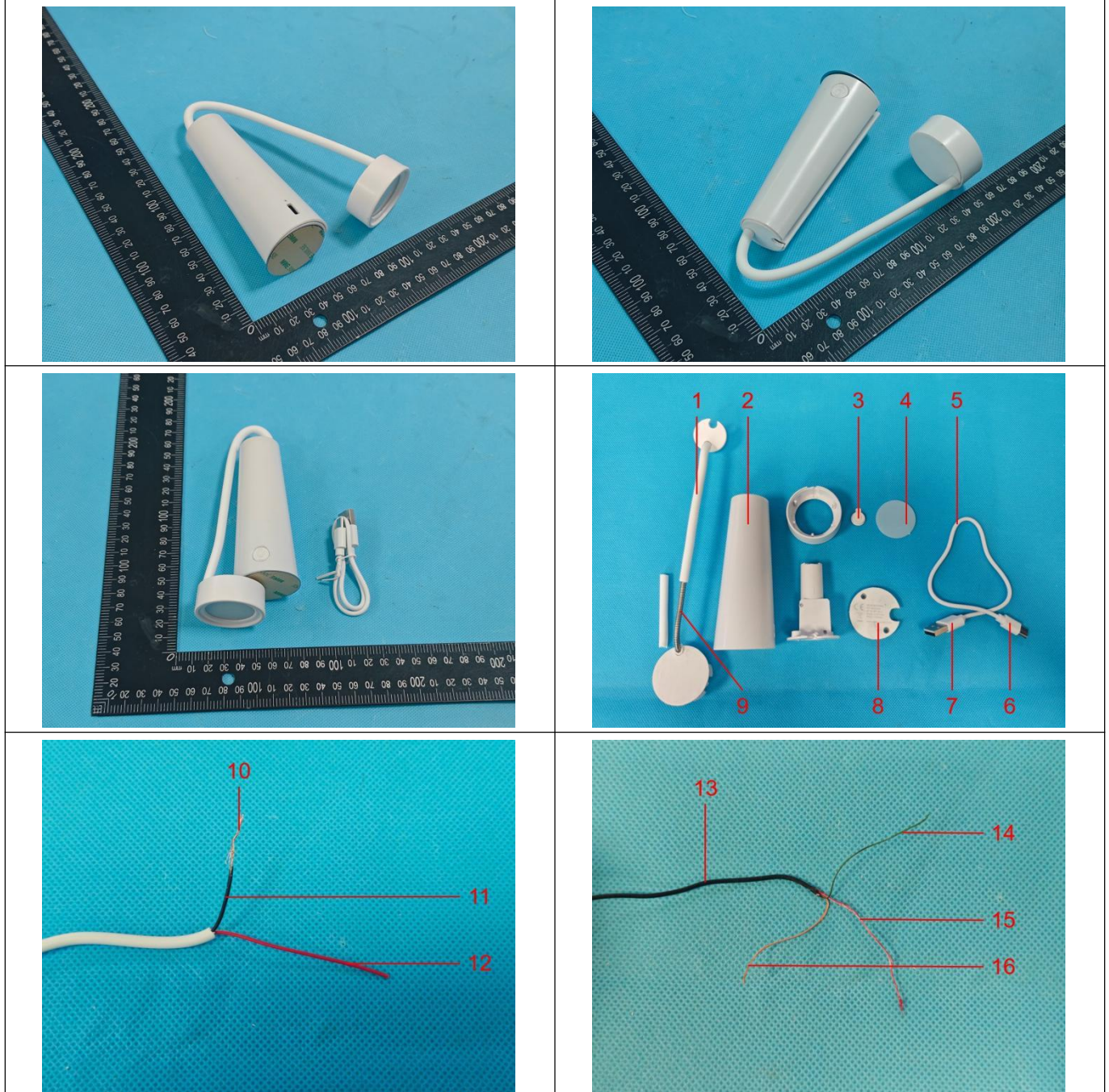
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Photograph(s) of Sample:



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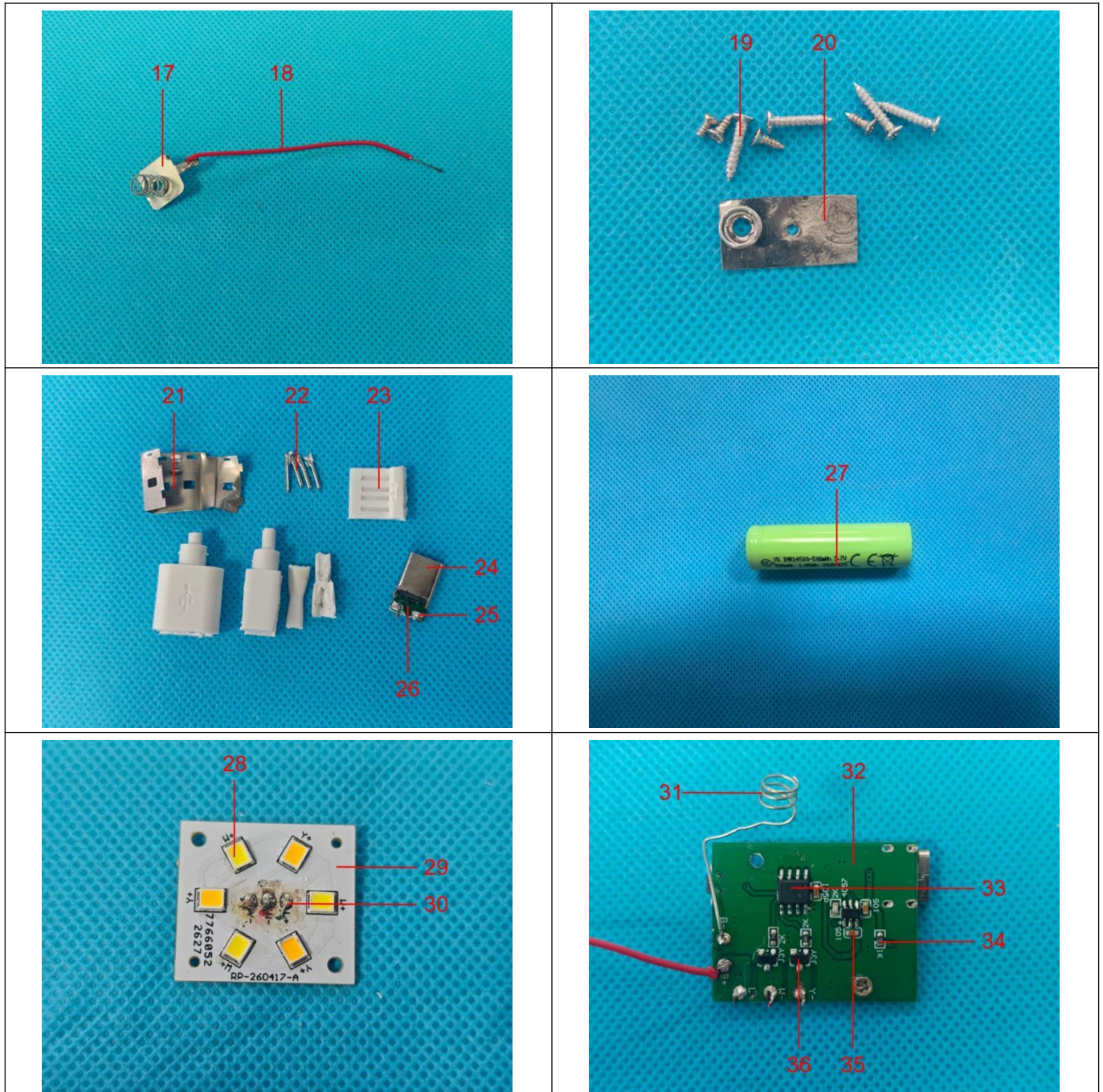
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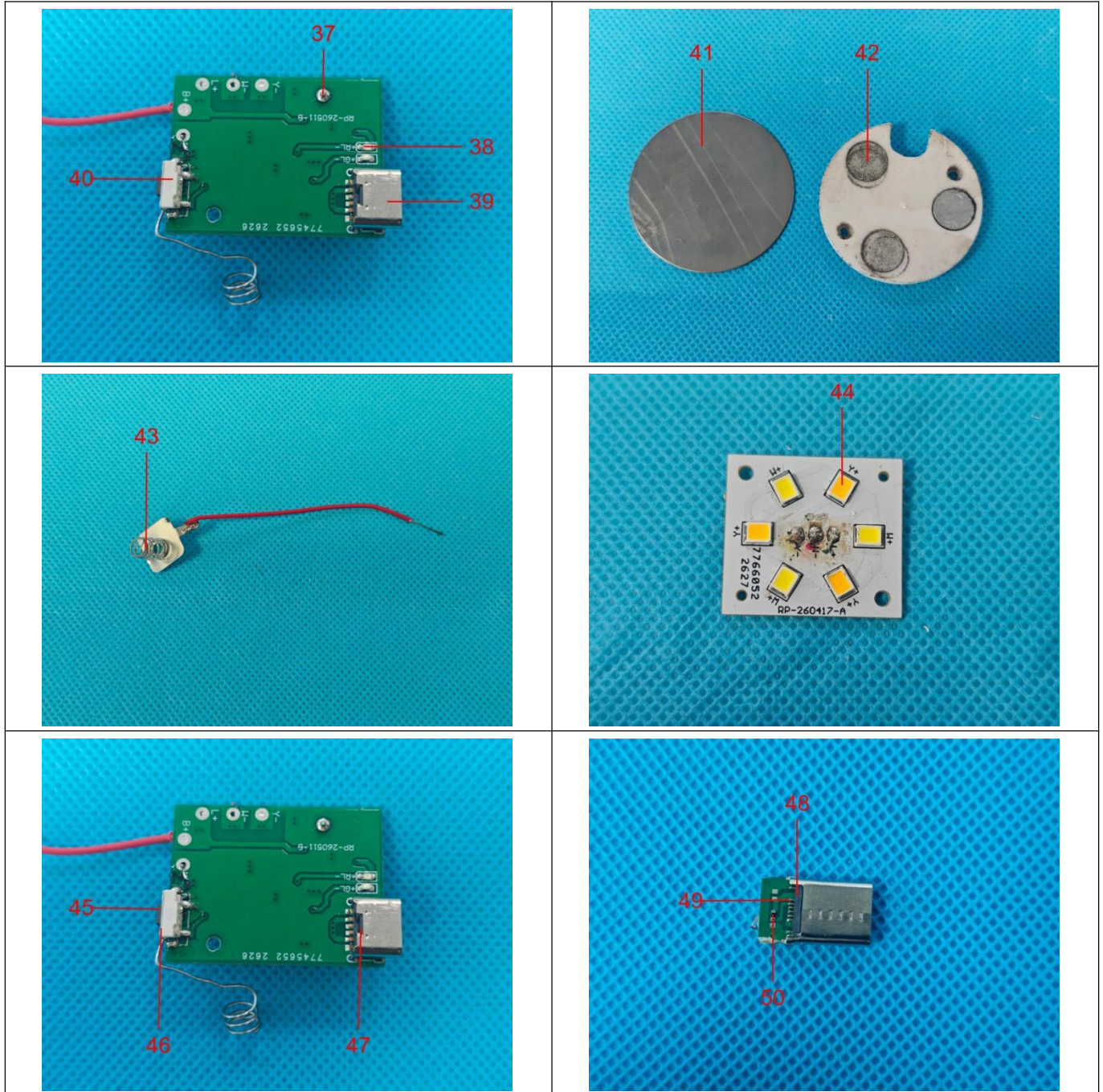
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