



Test Report

Report No.: SJS2302122ZF-ROHS-R1

Date: Feb.22, 2023

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Applicant: Shenzhen Nuohao Technology Co., Ltd.
Contact information: Room 201, Building F, No. 11, Jiaye Road, Hehua Community, Pinghu Street, Longgang District, Shenzhen
Manufacturer: Shenzhen Nuohao Technology Co., Ltd.
Contact information: Room 201, Building F, No. 11, Jiaye Road, Hehua Community, Pinghu Street, Longgang District, Shenzhen

The following sample(s) was (were) submitted and identified by client as:

Sample Description : Smart Light Sound Machine
Trademark : NA
Model No. : N69,N70,N71,N72,N73,N75,N76,N77,N78,N79,N80,N67,N68,N65,N61,N51,
N39,N38,N35,N30
Model differences : NA
Sample Received Date : Feb.16, 2023
Testing Period : Feb.16, 2023 to Feb.22, 2023
Test Request : Please refer to next page(s).
Test Result(s) : Please refer to next page(s).

Signed for and on behalf of ShenZhen SJS Testing Technology Services Co., Ltd

Prepared by

Sammy Lin
Engineer

Checked by

Emily Wang
Supervisor

Approved by

Collin Zhou
Manager



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Summary of test results:

TEST REQUEST

- (1) RoHS Directive 2011/65/EU and its subsequent amendments & Directive (EU) 2015/863
Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)),
Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs),
Phthalates (DBP, BBP, DEHP, DIBP)

CONCLUSION

PASS



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Test Material List

Material No.	Description
1	White plastic
2	Silver plastic
3	Black plastic
4	Transparent plastic
5	Silver metal screws
6	Red plastic (inside line)
7	Black plastic (inside line)
8	Copper colored metal wire (inside wire)
9	White plastic (connector)
10	Silver metal (trumpet)
11	Black plastic (horn)
12	Blue PCB (motherboard)
13	Silvery solder(Main board PCB)
14	Black body(IC, Main board PCB)
15	Silver metal(IC, Main board PCB)
16	Black body(Chip resistance, Main board PCB)
17	Brown body(Chip capacitors, Main board PCB)
18	LED lights
19	Copper metal (button)
20	Silver metal (button)
21	Black plastic (USB port)
22	Silver metal (USB port)
23	White plastic (USB cable)
24	Black plastic (USB cable)
25	Silver metal (USB cable)
26	White plastic (charger)
27	Silver metal (charger pin)



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Test Result(s):

(1) Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls (PBBs) and Polybrominated DiphenylEthers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP)

Lead (Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI))

Test Method: With reference to IEC 62321-5: 2013, IEC62321-4: 2013+A1:2017, IEC 62321-7-1: 2015 or IEC 62321-7-2: 2017, was analyzed by Ultraviolet-visible Spectrometry (UV-Vis).

No.	EDXRF Result ⁽¹⁾					Chemical Result ⁽²⁾ (mg/kg)	Remark ⁽³⁾	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	NA	--	--	Pass
6	BL	BL	BL	BL	BL	--	--	Pass
7	BL	BL	BL	BL	BL	--	--	Pass
8	BL	BL	BL	BL	NA	--	--	Pass
9	BL	BL	BL	BL	BL	--	--	Pass
10	BL	BL	BL	BL	NA	--	--	Pass
11	BL	BL	BL	BL	BL	--	--	Pass
12	BL	BL	BL	BL	X	PBBs: N.D. PBDEs: N.D.	--	Pass
13	BL	BL	BL	BL	BL	--	--	Pass
14	BL	BL	BL	BL	BL	--	--	Pass
15	BL	BL	BL	BL	BL	--	--	Pass
16	BL	BL	BL	BL	BL	--	--	Pass
17	BL	BL	BL	BL	BL	--	--	Pass
18	BL	BL	BL	BL	BL	--	--	Pass
19	BL	BL	BL	BL	NA	--	--	Pass
20	BL	BL	BL	BL	NA	--	--	Pass
21	BL	BL	BL	BL	BL	--	--	Pass
22	BL	BL	BL	BL	NA	--	--	Pass
23	BL	BL	BL	BL	BL	--	--	Pass
24	BL	BL	BL	BL	BL	--	--	Pass

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25	BL	BL	BL	BL	NA	--	--	Pass
26	BL	BL	BL	BL	BL	--	--	Pass
27	BL	BL	BL	BL	NA	--	--	Pass

Remark:

(1) ①Results are obtained by EDXRF for primary screening, and further wet 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, if an inconclusive result was found (as "X" in below table) (unit: mg/kg).

②OL = Over Limit, BL = Below Limit, X = Inconclusive, NA = Not Applicable.

③The EDXRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$L \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Units and limits in EU RoHS Directive 2011/65/EU:

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	1000	100	1000	1000	1000	1000

(2) ① mg/kg = ppm = 0.0001%, N.D. = Not Detected (Less than RL).

②Unit and RL (Report limit) in wet chemical test.

Element	Pb	Cd	Hg	Cr(VI)	PBBs(single)	PBDEs(single)
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Limit	2	2	2	2	5	5

③According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.

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Storage condition and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

④ According to IEC 62321-3-1:2013, this column represents the results of wet chem test.

(3) This column represents the exempted decoration of material or other related testing sample's information.

(2) Phthalates (DBP, BBP, DEHP, DIBP) content

Test Method: IEC 62321-8: 2017, analyzed by gas chromatographic- mass spectrometer (GC-MS).

Substances	DBP	BBP	DEHP	DIBP	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit (mg/kg)	1000	1000	1000	1000	
RL (mg/kg)	30	30	30	30	
Material No.	Result (mg/kg)				
1	N.D.	N.D.	N.D.	N.D.	PASS
2	N.D.	N.D.	N.D.	N.D.	PASS
3	N.D.	N.D.	N.D.	N.D.	PASS
4	N.D.	N.D.	N.D.	N.D.	PASS
6	N.D.	N.D.	N.D.	N.D.	PASS
7	N.D.	N.D.	N.D.	N.D.	PASS
9	N.D.	N.D.	N.D.	N.D.	PASS
11	N.D.	N.D.	N.D.	N.D.	PASS
19	N.D.	N.D.	N.D.	N.D.	PASS
21	N.D.	N.D.	N.D.	N.D.	PASS
23	N.D.	N.D.	N.D.	N.D.	PASS
24	N.D.	N.D.	N.D.	N.D.	PASS
26	N.D.	N.D.	N.D.	N.D.	PASS

Note: 1. mg/kg = milligram per kilogram (ppm).

2. RL = report limit.

3. N.D.=not detected(less than RL).



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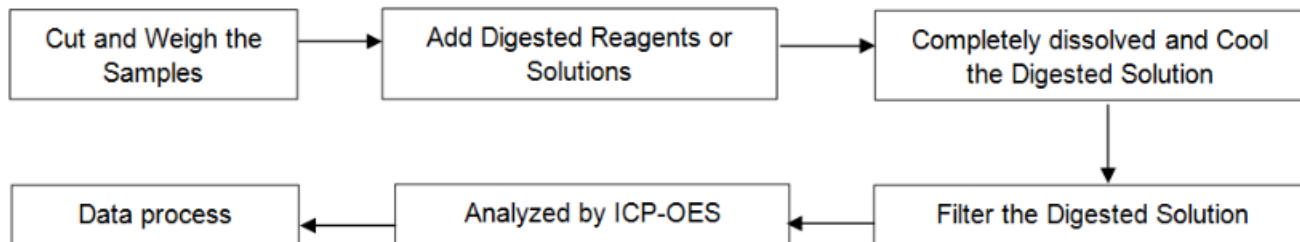
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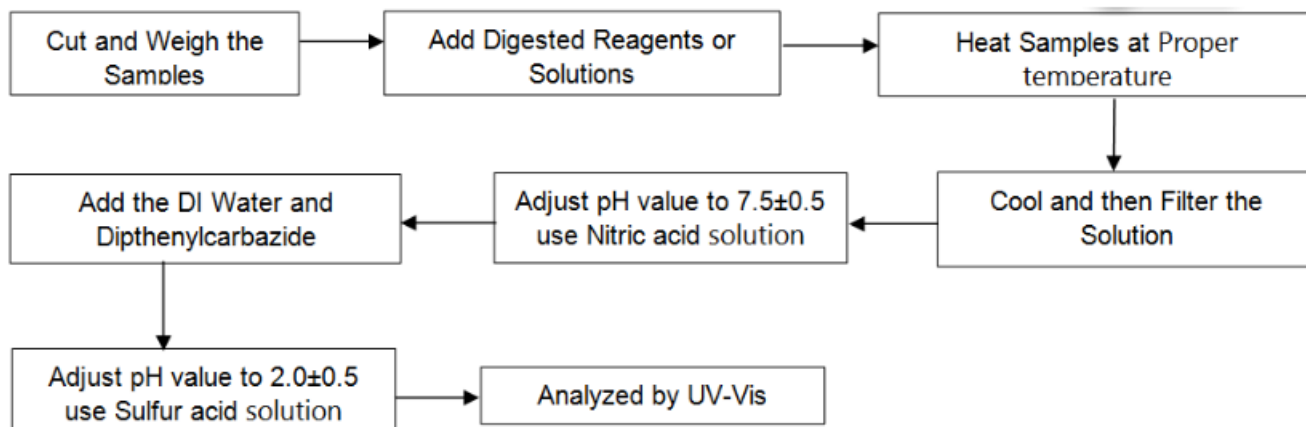
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Test Process Flow

1. Lead, Cadmium, Mercury



2. Hexavalent Chromium (Non-metal)





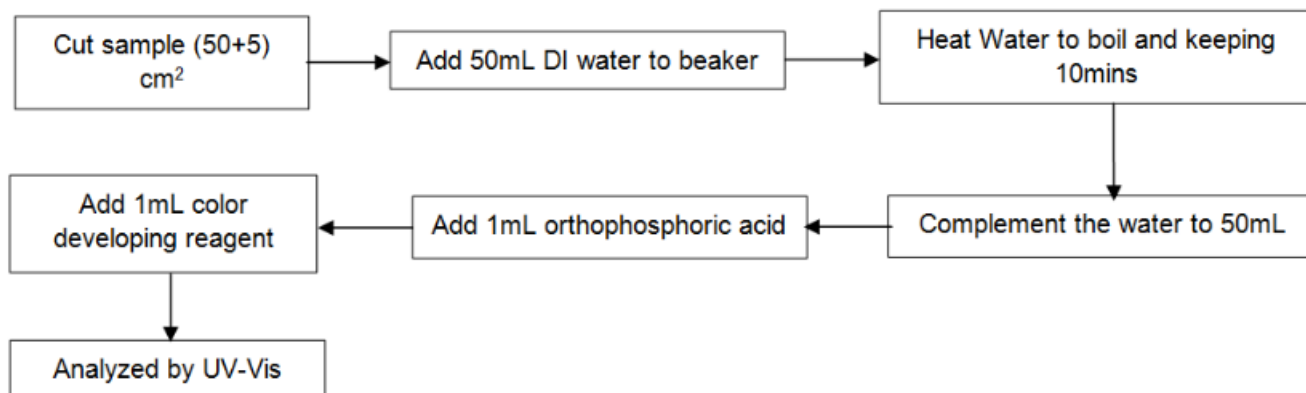
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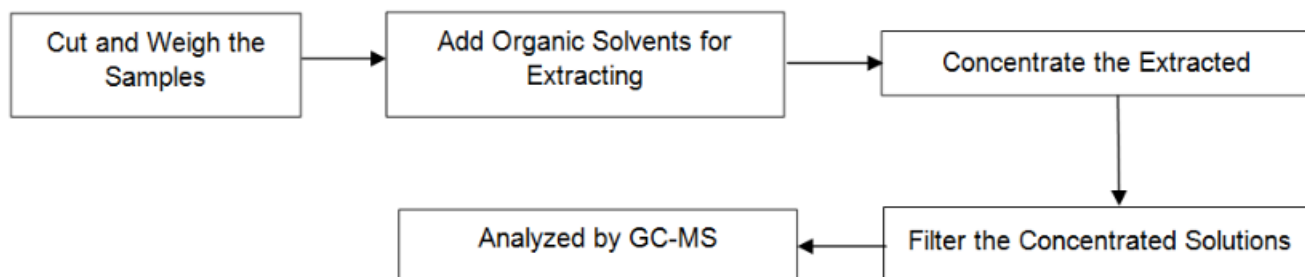
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Hexavalent Chromium (Metal)



3. PBBs & PBDEs, Phthalates





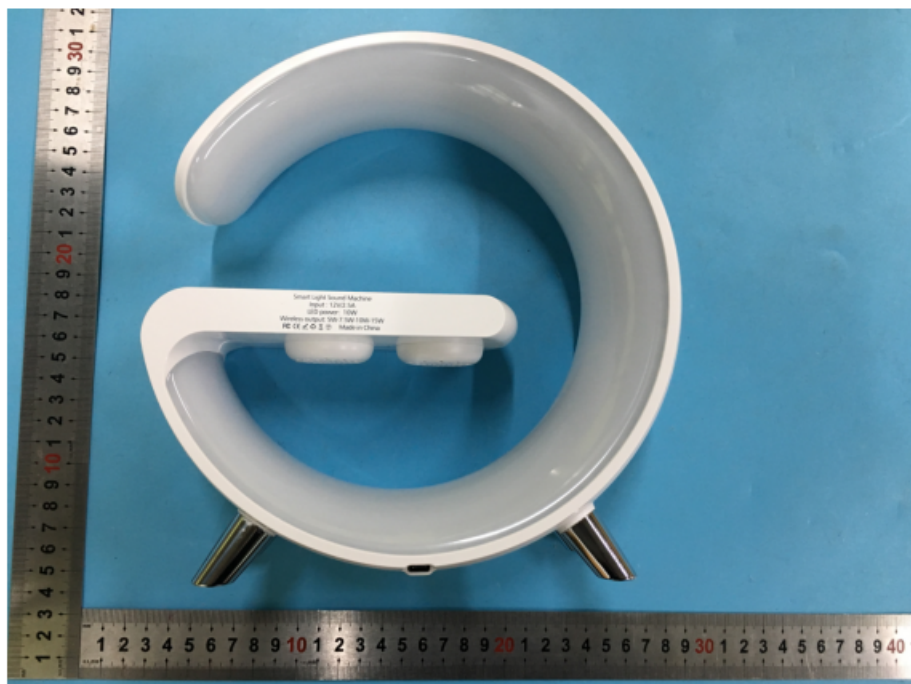
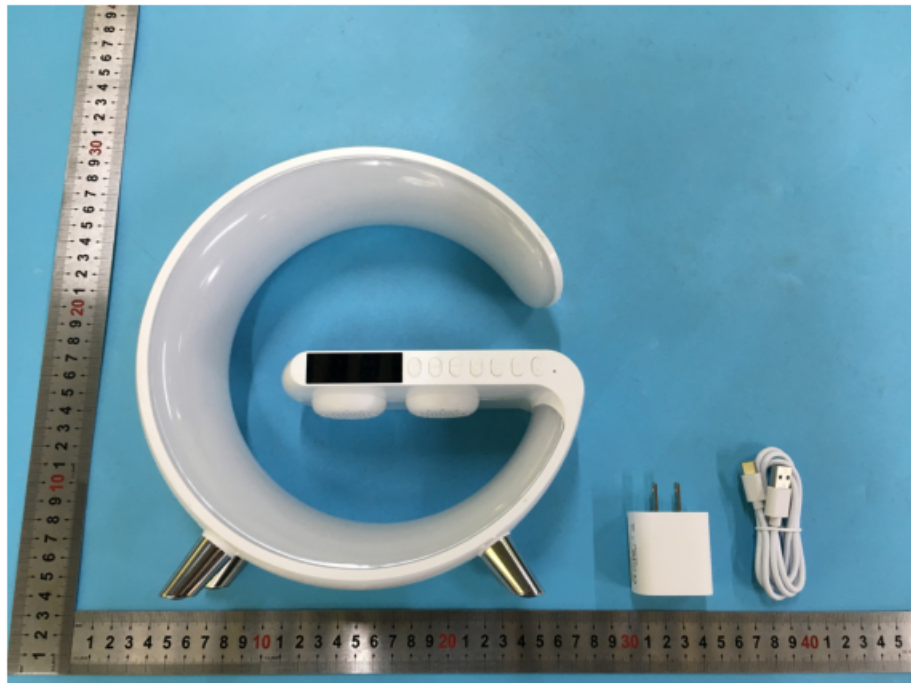
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Photo(s) of Sample:



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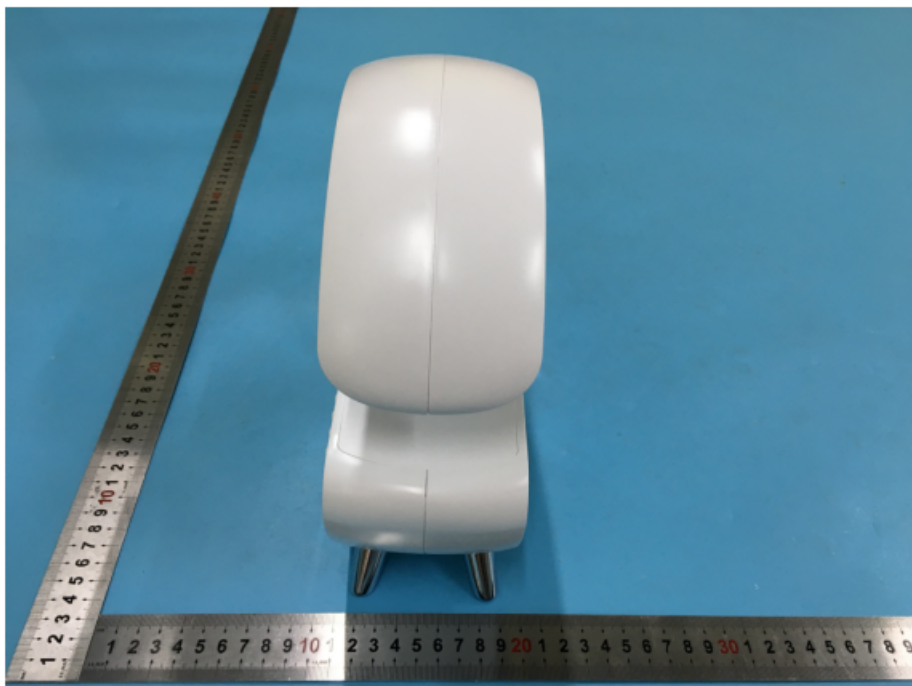
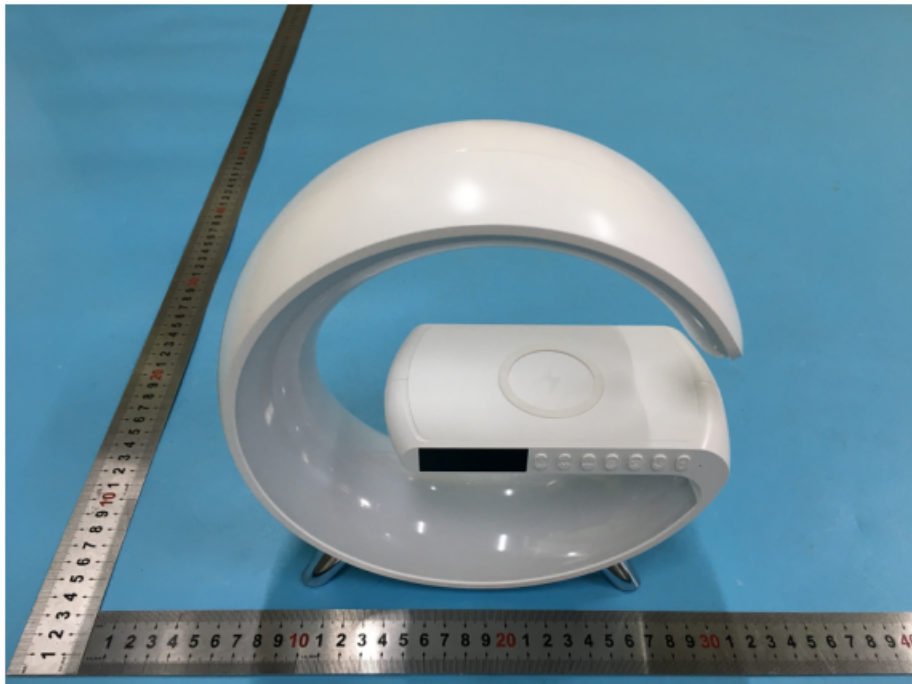


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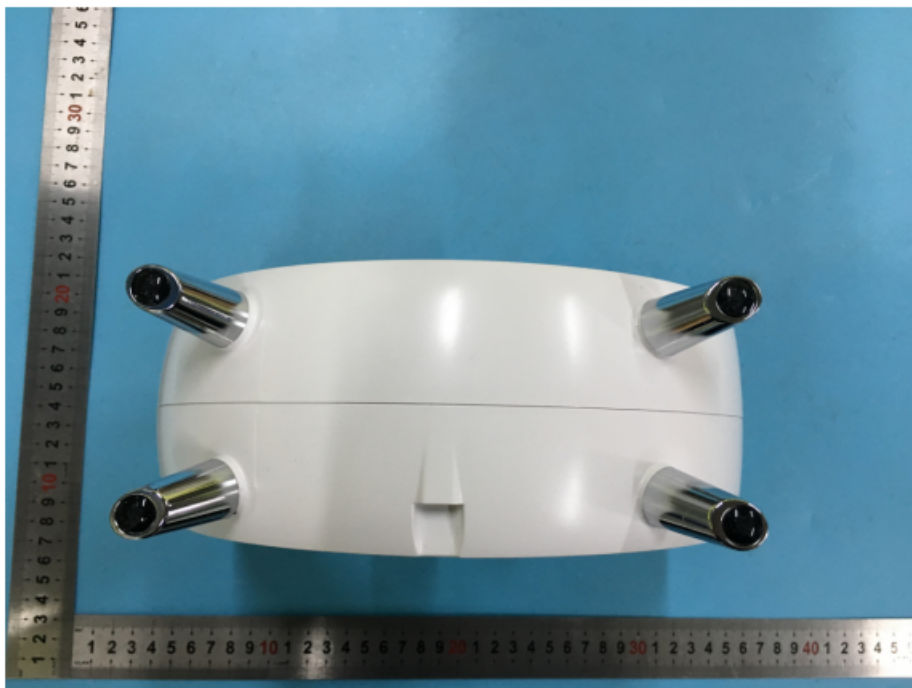
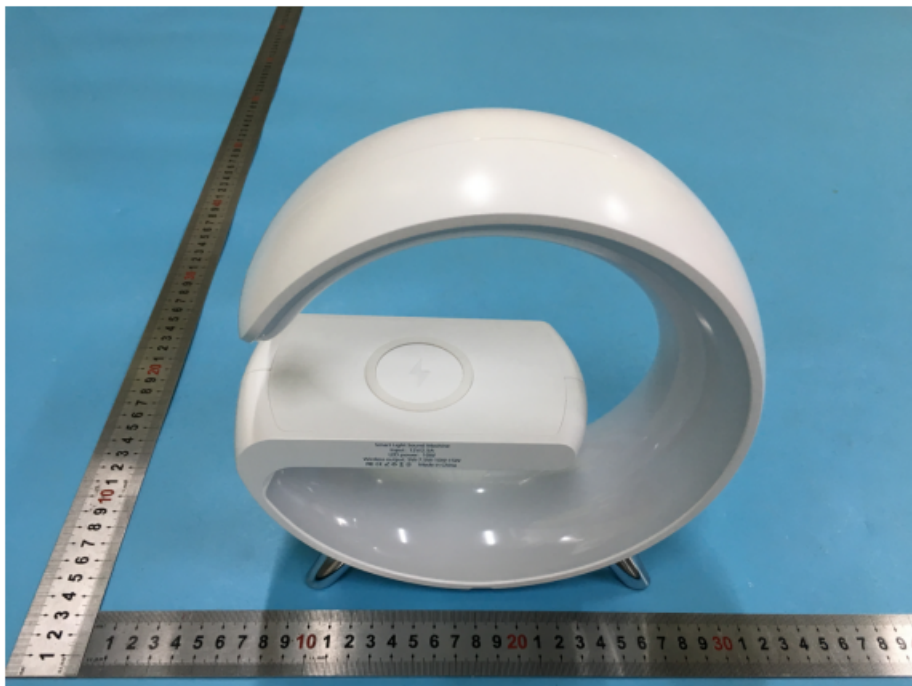


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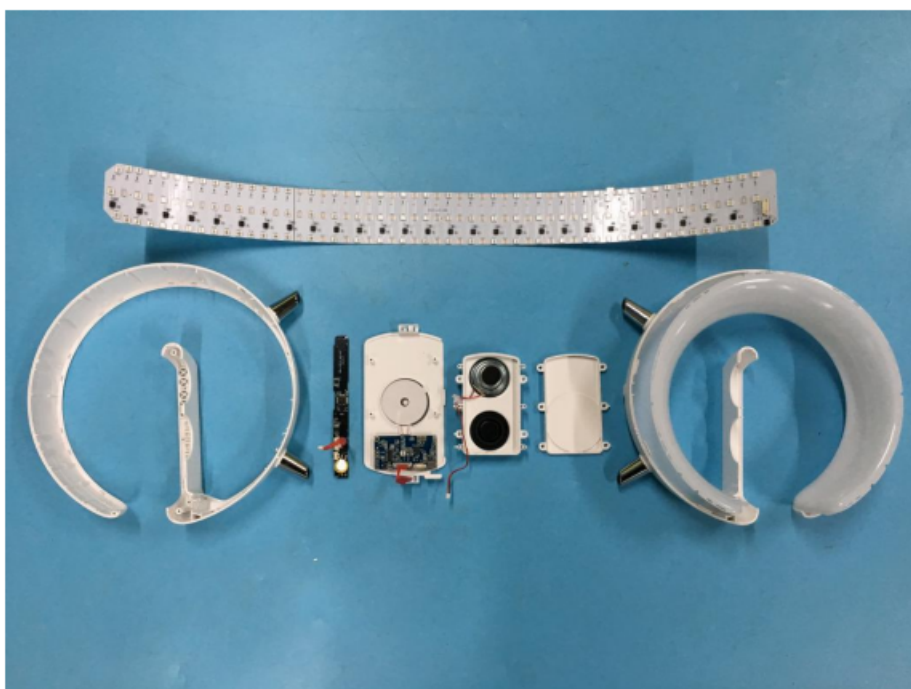


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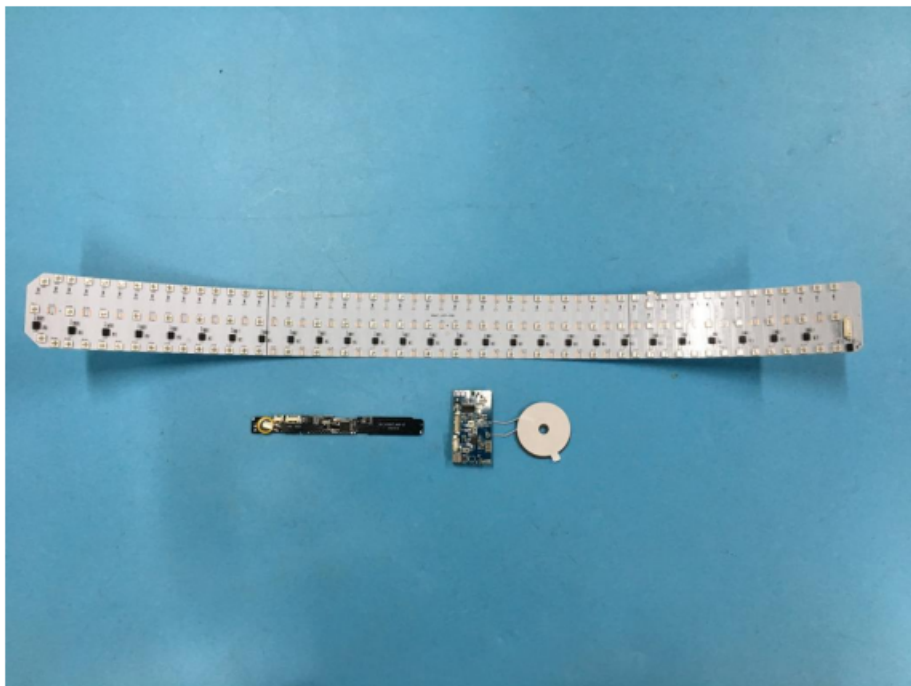


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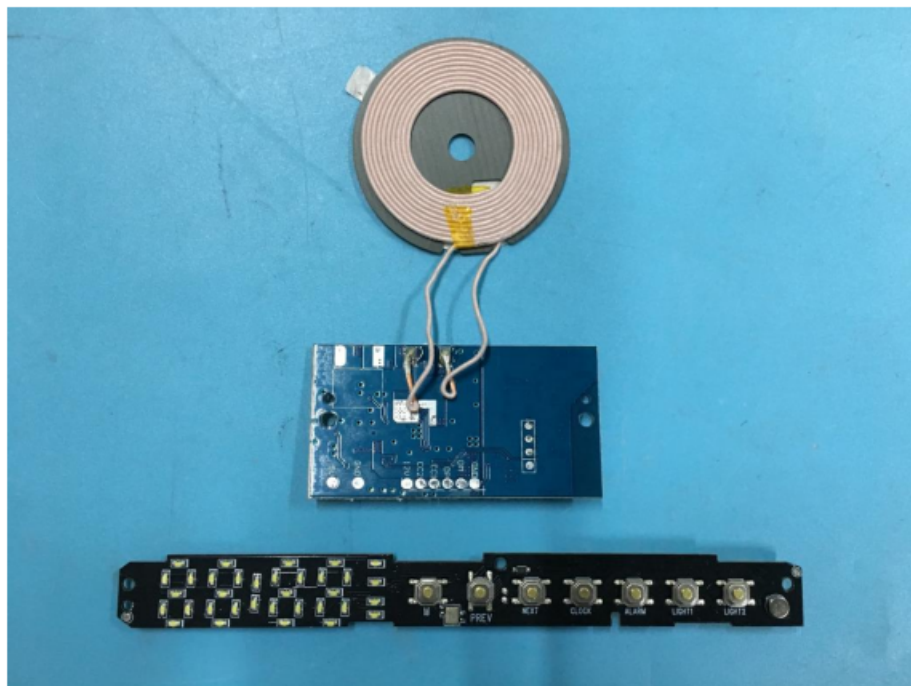
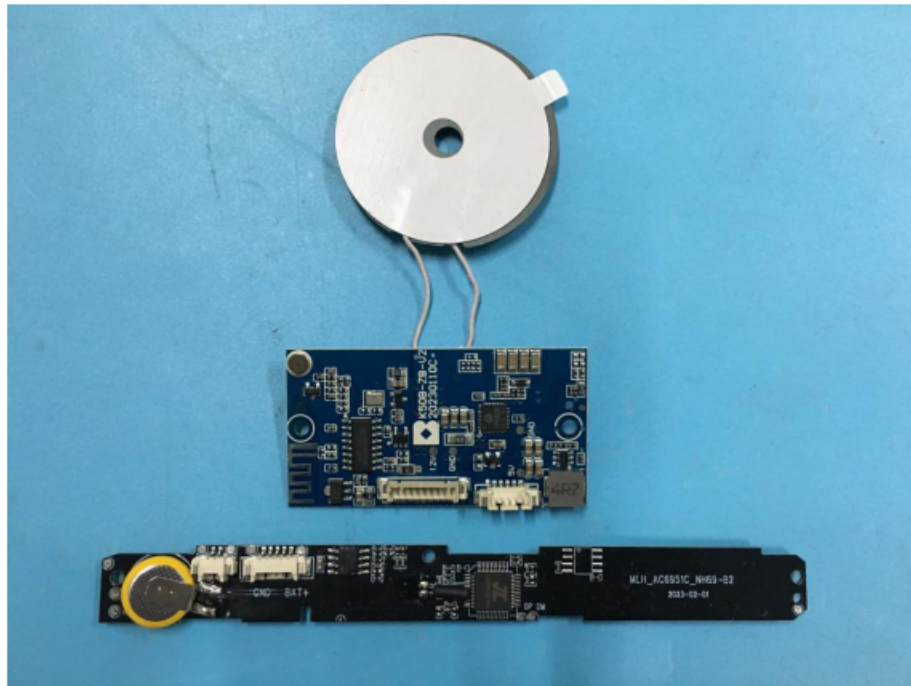


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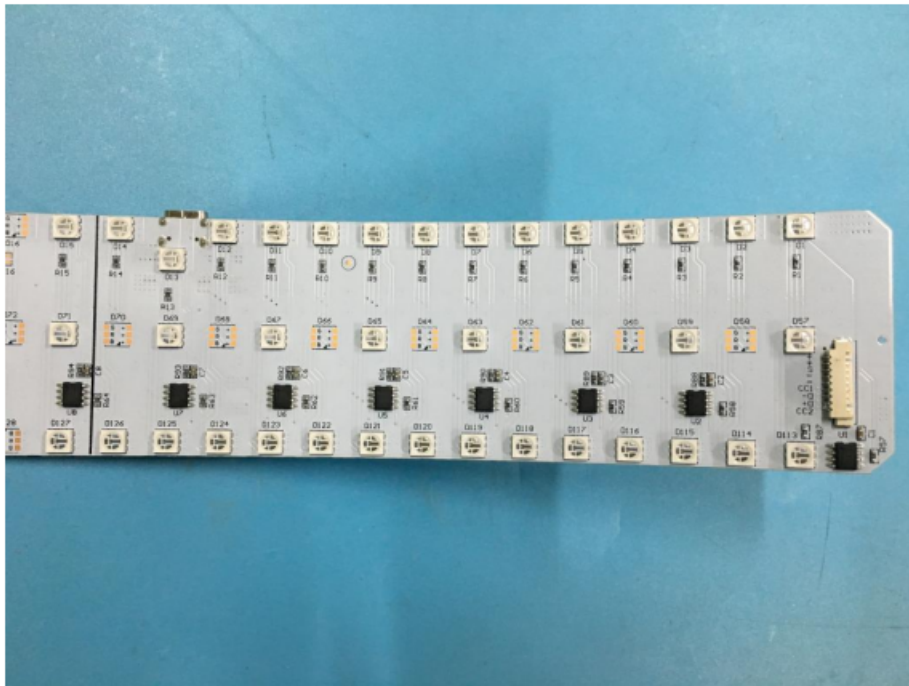


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End of Report

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