

TEST REPORT

Applicant: Zhongshanshiyizhizhaoming Co., Ltd.
Address: No. 45 Xinxing Avenue East, Guzhen Town, Zhongshan City, Ground Floor 3

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

Sample name: desk lamp
Test Sample Model: 2025218
Manufacturer : Zhongshanshiyizhizhaoming Co., Ltd.
Address: No. 45 Xinxing Avenue East, Guzhen Town, Zhongshan City, Ground Floor 3
Sample No.: S2605150109-1#
Sample Received Date: 2026-05-15
Testing Period: 2026-05-19~2026-06-25

Test Requirement:

As specified by the client, the contents of Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Bis-(2-ethylhexyl) Phthalate (DEHP), Benzyl Butyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate (DIBP) in the submitted samples were determined in accordance with the IEC 62321 series. The technical documentation was assessed against EN IEC 63000:2018 to demonstrate conformity with RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Conclusion

Pass

Test Result(s): Please refer to the following page(s);

Test Method: Please refer to the following page(s);

Compiled by:

Reviewed by:

Approved by:

Date:

2026-07-10

Sample Description:

No.	Part name	Sample description
001	Shell	Pink coating of main body
002		Metal base material of main body
003		Silver metal sheet of main body
004		Black foam with glue of main body
005		Silver metal sheet of clasp
006		Silver metal spring of clasp
007		Silver metal of studs
008		White plastic of nut (large)
009		Silver metal of nut (small)
010A*		White rubber of gasket
011	LED	White aluminum substrate of PCB
012		SMD resistor
013		SMD LED
014		Tin solder of PCB
015	Power cord	White encapsulation of USB interface
016		Silver metal shell of USB interface
017		White plastic of USB interface
018		Metal pin of USB interface
019		Tin solder of USB interface
020		White plastic shell of switch
021		White translucent plastic of switch
022		metal button of switch
023		Metal spring of switch
024		Silver metal sheet of switch
025		Tin solder of switch
026		White wire jacket of wiring harness
027		Red wire jacket of wiring harness
028		Black wire jacket of wiring harness
029		metal wire core of wire of wiring harness
030		Tin solder of wiring harness
031	Lamp shade 1	Color cloth with film of main body
032		Beige fabric of main body
033		White fur surface of velcro
034		White woven thread of velcro

035	Lamp shade 1	White adhesive surface of velcro
036		White plastic of clasp
037		White plastic of plate
038		White coating of bracket
039		Metal base material of bracket
040	Lamp shade 2	Adhesive white cloth of main body
041	Lamp shade 3	Glued beige cloth of main body
042		Bright white plastic of plate
043	Lamp shade 5	Adhesive colored cloth of main body
044	Lamp shade 6	Adhesive colored cloth of main body
045	Blue ink	Blue coating of main body
046	White ink	White coating of main body
047	Red ink	Red coating of main body
048	Yellow ink	Yellow coating of main body
049	Black ink	Black coating of main body
050	Mixed color ink	Mixed color ink coating of main body

Test Result(s):

Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers(PBDEs)

1. XRF Screening Result

No.	XRF Screening Result (mg/kg)					Conclusion
	Pb	Cd	Hg	Cr	Br	
001	BL	BL	BL	BL	BL	Pass
002	BL	BL	BL	BL	/	Pass
003	BL	BL	BL	IN	/	IN
004	BL	BL	BL	BL	BL	Pass
005	BL	BL	BL	IN	/	IN
006	BL	BL	BL	BL	/	Pass
007	BL	BL	BL	BL	/	Pass
008	BL	BL	BL	BL	BL	Pass
009	BL	BL	BL	BL	/	Pass
010A	BL	BL	BL	BL	BL	Pass
011	BL	BL	BL	BL	BL	Pass
012	BL	BL	BL	BL	BL	Pass
013	BL	BL	BL	BL	BL	Pass
014	IN	BL	BL	BL	/	IN

No.	XRF Screening Result (mg/kg)					Conclusion
	Pb	Cd	Hg	Cr	Br	
015	BL	BL	BL	BL	BL	Pass
016	BL	BL	BL	BL	/	Pass
017	BL	BL	BL	BL	BL	Pass
018	BL	BL	BL	BL	/	Pass
019	IN	BL	BL	BL	/	IN
020	BL	BL	BL	BL	BL	Pass
021	BL	BL	BL	BL	BL	Pass
022	BL	BL	BL	IN	/	IN
023	BL	BL	BL	IN	/	IN
024	BL	BL	BL	BL	/	Pass
025	BL	BL	BL	BL	/	Pass
026	BL	BL	BL	BL	BL	Pass
027	BL	BL	BL	BL	BL	Pass
028	BL	BL	BL	BL	BL	Pass
029	BL	BL	BL	BL	/	Pass
030	BL	BL	BL	BL	/	Pass
031	BL	BL	BL	BL	BL	Pass
032	BL	BL	BL	BL	BL	Pass
033	BL	BL	BL	BL	BL	Pass
034	BL	BL	BL	BL	BL	Pass
035	BL	BL	BL	BL	BL	Pass
036	BL	BL	BL	BL	BL	Pass
037	BL	BL	BL	BL	BL	Pass
038	BL	BL	BL	BL	BL	Pass
039	BL	BL	BL	BL	/	Pass
040	BL	BL	BL	BL	BL	Pass
041	BL	BL	BL	BL	BL	Pass
042	BL	BL	BL	BL	BL	Pass
043	BL	BL	BL	BL	BL	Pass
044	BL	BL	BL	BL	BL	Pass
045	BL	BL	BL	BL	BL	Pass
046	BL	BL	BL	BL	BL	Pass
047	BL	BL	BL	BL	BL	Pass
048	BL	BL	BL	BL	BL	Pass
049	BL	BL	BL	BL	BL	Pass
050	BL	BL	BL	BL	BL	Pass

2. Chemical Test Result

No.	Chemical Test Result (mg/kg)						Conclusion
	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	
003	/	/	/	N.D.	/	/	Pass
005	/	/	/	N.D.	/	/	Pass
014	213	/	/	/	/	/	Pass
019	96	/	/	/	/	/	Pass
022	/	/	/	N.D.	/	/	Pass
023	/	/	/	N.D.	/	/	Pass

Bis-(2-ethylhexyl) Phthalate (DEHP), Benzyl butyl Phthalate (BBP), Dibutyl Phthalate (DBP) and Diisobutyl Phthalate(DIBP)

No.	Test Items Result (mg/kg)				Conclusion
	DEHP	BBP	DBP	DIBP	
001	36	N.D.	N.D.	N.D.	Pass
004	66	N.D.	N.D.	N.D.	Pass
008+017+020+021+035	N.D.	N.D.	N.D.	N.D.	Pass
010A	N.D.	N.D.	N.D.	N.D.	Pass
011	N.D.	N.D.	N.D.	N.D.	Pass
015	N.D.	N.D.	N.D.	N.D.	Pass
026	N.D.	N.D.	N.D.	N.D.	Pass
027	N.D.	N.D.	N.D.	N.D.	Pass
028	N.D.	N.D.	N.D.	N.D.	Pass
031+032+033+034+040	N.D.	N.D.	N.D.	N.D.	Pass
036+037+042	N.D.	N.D.	N.D.	N.D.	Pass
038	N.D.	N.D.	N.D.	N.D.	Pass
041+043+044	N.D.	N.D.	N.D.	N.D.	Pass
045	N.D.	N.D.	N.D.	N.D.	Pass
046	N.D.	N.D.	N.D.	N.D.	Pass
047	N.D.	N.D.	N.D.	N.D.	Pass
048	N.D.	N.D.	N.D.	N.D.	Pass
049	N.D.	N.D.	N.D.	N.D.	Pass
050	N.D.	N.D.	N.D.	N.D.	Pass

Note: 1.N.D. = Not Detected (<MDL)
MDL = Method Detection Limit
1mg/kg = 1ppm =0.0001%
/=Not Regulated or Not Applicable

2. BL = Below the XRF screening limit

IN = Further chemical test will be conducted when the screening result inconclusive

OL = Further chemical test will be conducted while the result is above the screening limit.

3. For metal samples, the sample is negative for Cr(VI), if the Cr(VI) concentration is less than $0.10 \mu\text{g}/\text{cm}^2$, the coating is considered a non- Cr(VI) based coating;

The sample is positive for Cr(VI), if the Cr(VI) concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$,

The sample coating is considered to contain Cr(VI);

The result is considered to be inconclusive, the Cr(VI) concentration is between the $0.10 \mu\text{g}/\text{cm}^2$ and $0.13 \mu\text{g}/\text{cm}^2$, unavoidable coating variations may influence the determination.

Because the storage condition and production date of the sample are not known, the test results of the sample of hexavalent chromium can only represent the state of hexavalent chromium in the samples tested.

Remark: 1. When conducting the test for PBBs&PBDEs, XRF was introduced to screen Br Exclusively; When conducting the test for Hexavalent Chromium, XRF was introduced to screen Chromium exclusively.

3. *No. 010A is the retest sample of the original No. 010, Resubmitted Date: Jun.22, 2026.

Test Method:

1. With reference to IEC 62321-1: 2013 Ed.1.0, IEC 62321-2:2021 Ed.2.0, IEC 62321-3-1:2026 Ed.2.0.

XRF screening limits in mg/kg for regulated elements in various matrices.

Element	Limit of IEC 62321-3-1:2026 Ed.2.0 (mg/kg)		
	Polymers	Metals	Composite material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	/	$BL \leq (250-3\sigma) < X$

Note: BL= Below the XRF screening limit

OL=Over the XRF screening limit

X=The symbol "X" marks the region where further investigation is necessary.

3σ =The reproducibility of analytical instruments

LOD= Detection limit

2. Chemical Test

Test item	Test method	Test instrument	MDL	Limit [△]
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	1000 mg/kg
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES	2 mg/kg	100 mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000 mg/kg
Hexavalent Chromium(Cr(VI))	IEC 62321-7-1:2015 Ed.1.0	UV-Vis	0.10 $\mu\text{g}/\text{cm}^2$	1000 mg/kg
	IEC 62321-7-2:2017 Ed.1.0		8 mg/kg	
Polybrominated Biphenyls(PBBs)	IEC 62321-12:2023 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
Polybrominated, Diphenyl Ethers(PBDEs)	IEC 62321-12:2023 Ed.1.0	GC-MS	5 mg/kg	1000 mg/kg
Bis-(2-ethylhexyl) Phthalate (DEHP)	IEC 62321-12:2023 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
Benzyl butyl Phthalate (BBP)	IEC 62321-12:2023 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
Dibutyl Phthalate (DBP)	IEC 62321-12:2023 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg
Diisobutyl Phthalate (DIBP)	IEC 62321-12:2023 Ed.1.0	GC-MS	30 mg/kg	1000 mg/kg

[△]The limit is quoted from RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

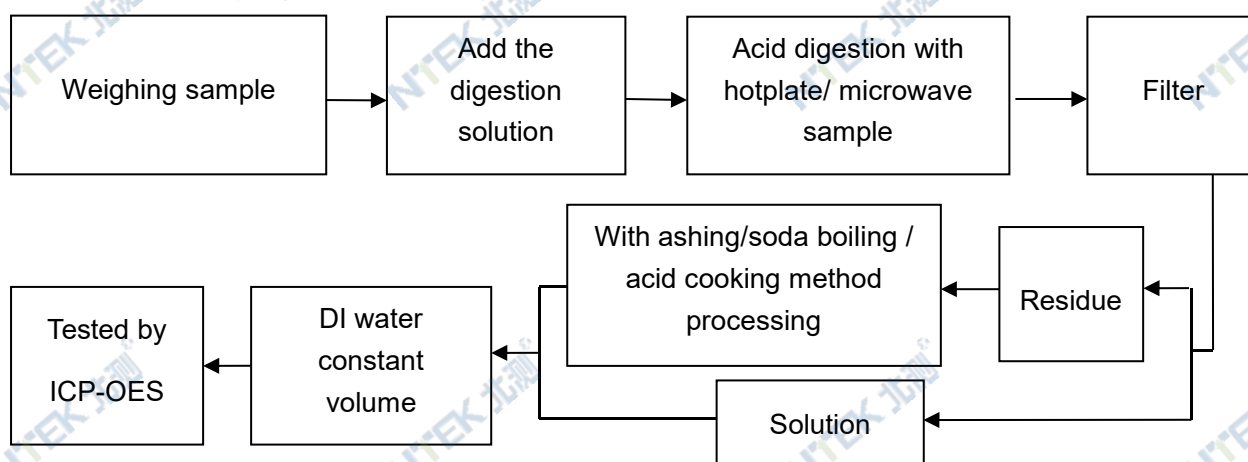
Test instrument:

Test instrument	Instrument model	Calibration effective date
GC-MS	7890B-5977A	2028-02-10
EDXRF	EDX 1800E	2027-03-11
ICP-OES	OPTIMA 8000	2028-05-21
GC-MS	QP-2010	2028-04-26
UV-vis	T6	2027-05-21
EDXRF	EDX-LE Plus	2027-03-05

Test Flow:

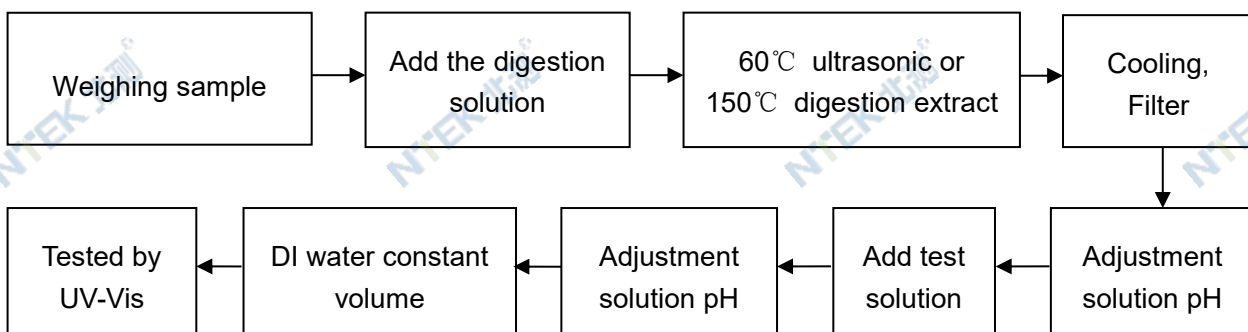
1. Lead(Pb), Cadmium(Cd), Mercury (Hg)

The sample is completely digested according to the procedure described below

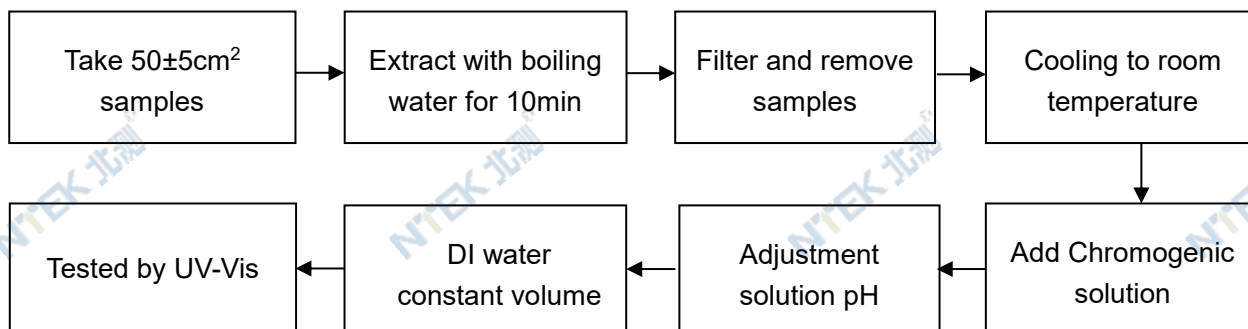


2. Hexavalent Chromium(Cr(VI))

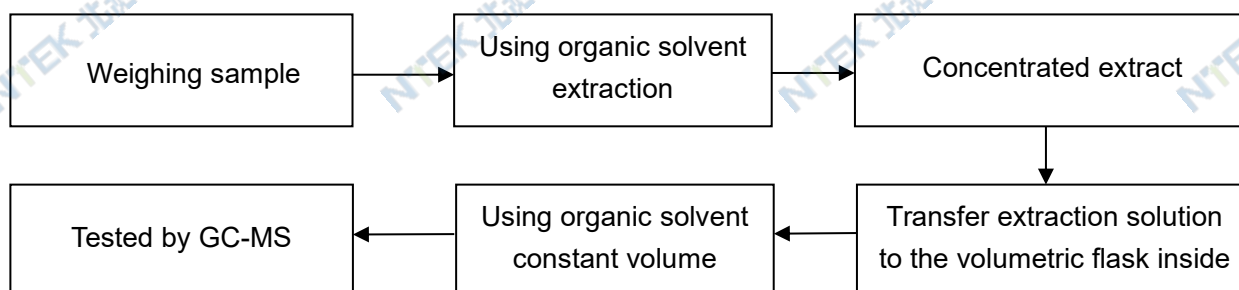
2.1 Non- metal sample(s)



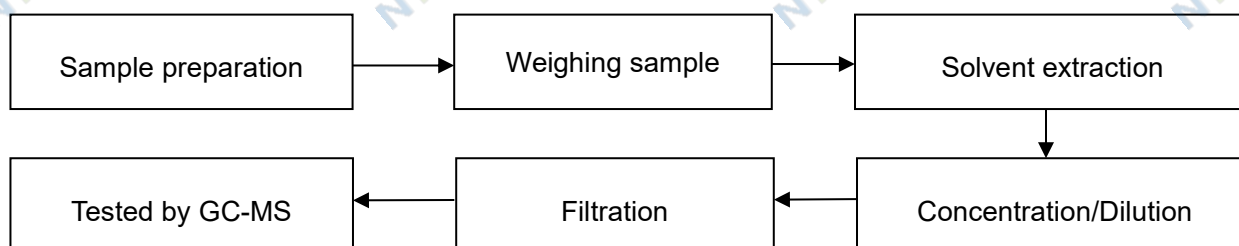
2.2 Metal sample(s)



3. PBBs/ PBDEs



4. Phthalates



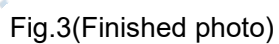
Sample photo(s):



Fig.1(Finished photo)



Fig.2(Finished photo)



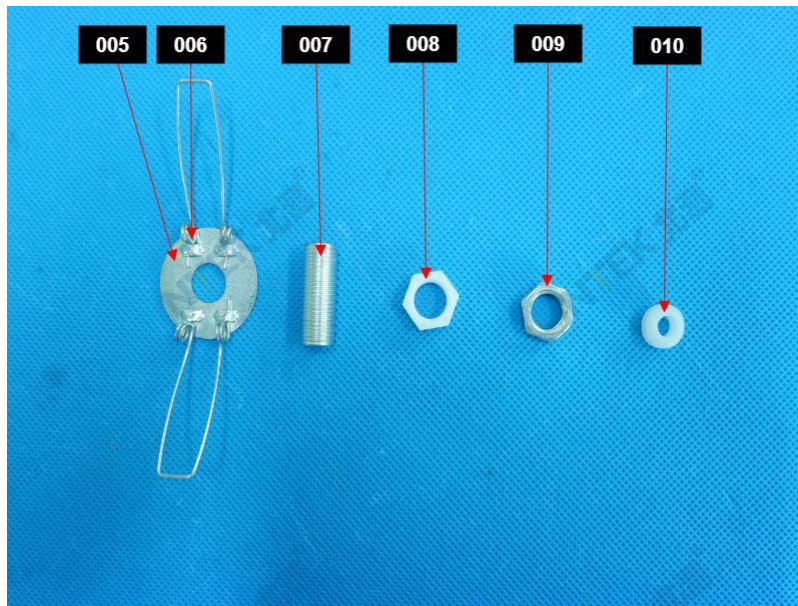


Fig.5

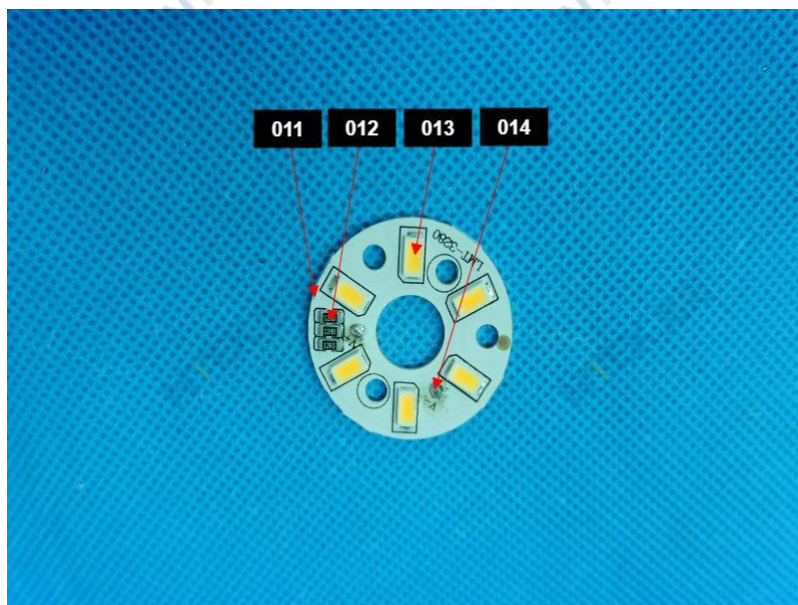


Fig.6

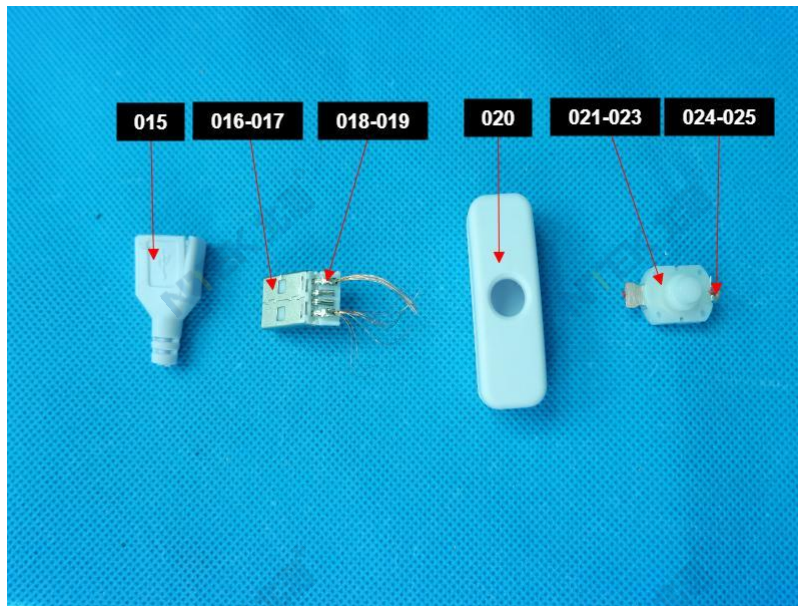


Fig.7

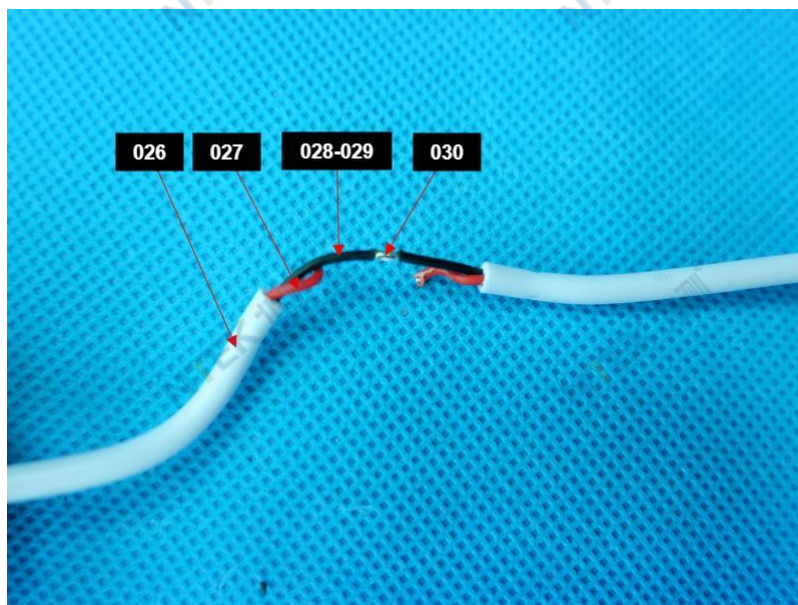


Fig.8

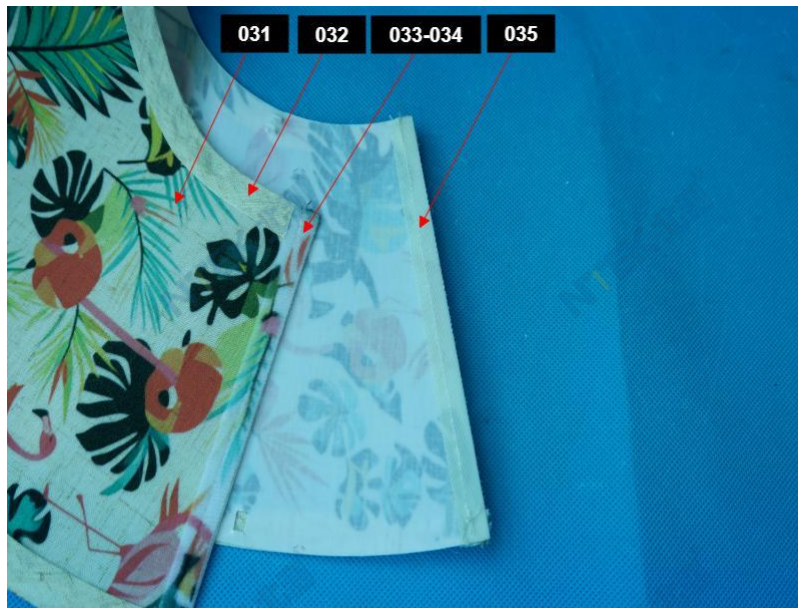


Fig.9

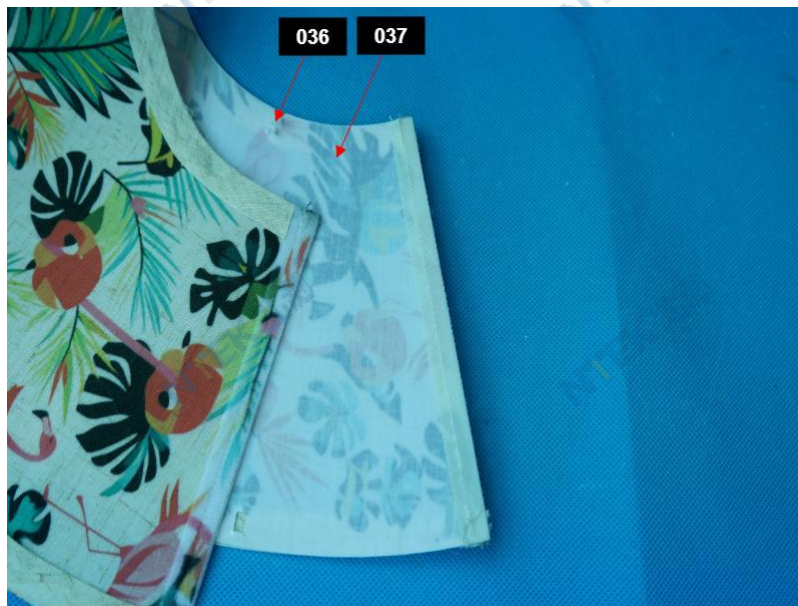


Fig.10

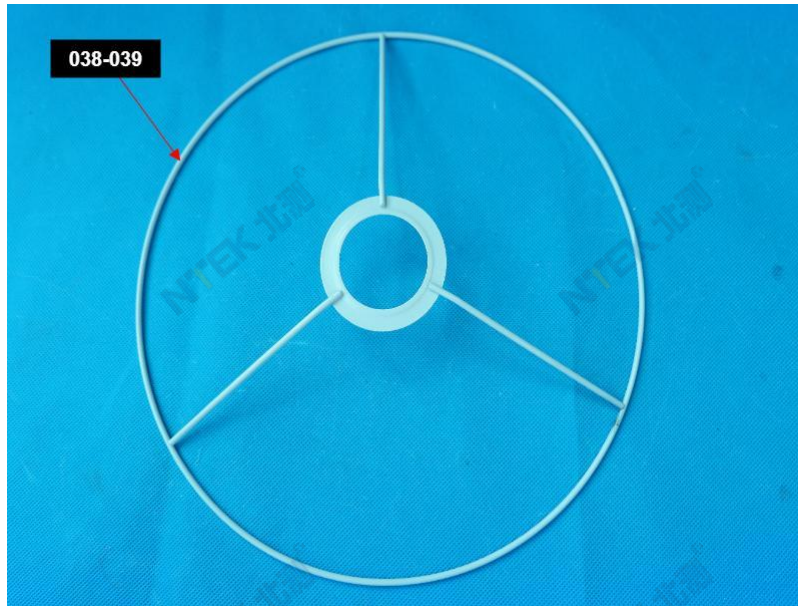


Fig.11



Fig.12

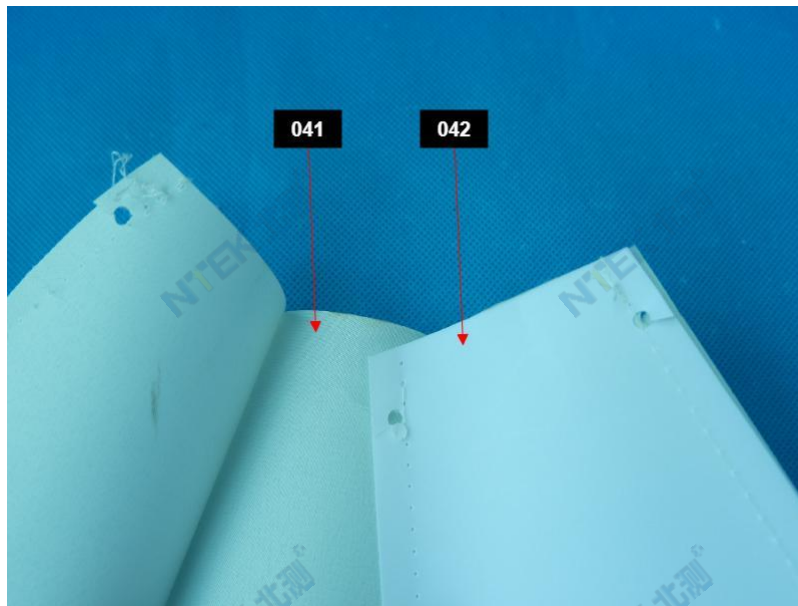


Fig.13



Fig.14



Fig.15



Fig.16

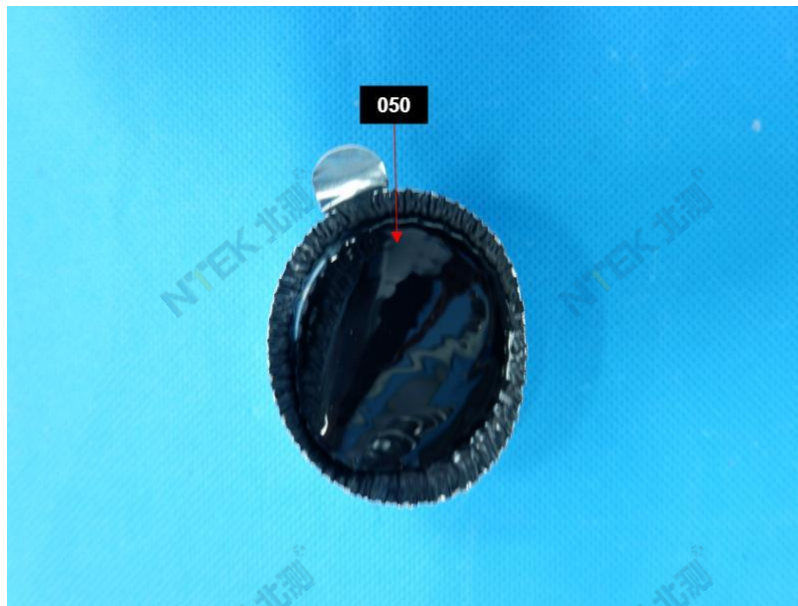


Fig.17

Resubmitted Sample photo(s):

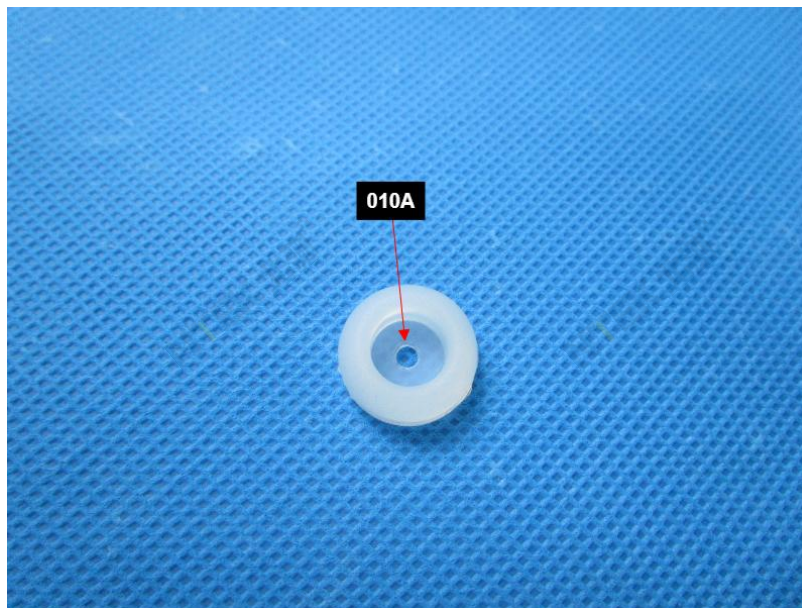


Fig.18

****End of Report****

The test results or data in this report will be used only for education, scientific research, enterprise product development and internal quality control or other purposes.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of NTEK, this report can't be reproduced except in full.

Appendix

Client Ref. Photo:



Fig.1



Fig.2