

**Report No.:** NB2023042932

**Date:** April 24, 2023

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**Applicant:** Shenzhen Founder Industrial Co., Ltd  
**Address:** On East Side Of The 5th Floor, Building C, KeLunTe Low-carbon Industrial Park,  
GaoFeng Community, DaLang Street , LongHua New District, ShenZhen  
**Manufacturer:** Shenzhen Founder Industrial Co., Ltd  
**Address:** On East Side Of The 5th Floor, Building C, KeLunTe Low-carbon Industrial Park,  
GaoFeng Community, DaLang Street , LongHua New District, ShenZhen  
**Factory1:** Shenzhen Founder Industrial Co., Ltd  
**Address:** On East Side Of The 5th Floor, Building C, KeLunTe Low-carbon Industrial Park,  
GaoFeng Community, DaLang Street , LongHua New District, ShenZhen

The following merchandise were submitted and identified by the clients as:

**Sample Name:** Desk Lamp  
FDDL02x, FDDL03x, FDDL04x, FDDL05x, FDDL06x, FDDL07x, FDDL08x,  
**Model No.:** FDDL09x, FDDL12x, FDDL13x, FDDL14x, FDDL15x, FDDL16x, FDDL17x,  
FDDL18x, FDDL19x (Where "x" may be A thru Z or blank, indicates different  
appearance color.)

The following information were confirmed by the laboratory:

**Testing Period:** From April 18, 2023 to April 24, 2023  
**Test Results:** Please refer to next page(s)

## Summary of test results

Test Requested		Conclusion
1	In accordance with RoHS Directive 2011/65/EU and amendment 2015/863/EU, to determine Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr (VI)), PBBs, PBDEs, Di (2-ethyl hexyl)-phthalate (DEHP), Dibutyl phthalate (DBP), Butylbenzyl phthalate (BBP), Diisobutyl phthalate (DIBP) content on submitted samples.	PASS

Signed for and on behalf of Guangdong NewBest Testing Service Co., Ltd.

Approved by:

  
  
Manager

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## Test method:

### 1. For the Cadmium (Cd), Lead (Pb),Mercury (Hg), Chromium (Cr (VI)), PBBs, PBDEs:

With reference to IEC 62321 Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products, XRF scanning first test, then using chemical test method to confirm.

Testing Item		Test Method	Measuring Instrument	MDL
Screening test		IEC 62321-3-1: 2013 scanning	XRF	--
Wet Chemical test	Lead (Pb)	IEC 62321-5: 2013	ICP-OES	10mg/kg
	Cadmium (Cd)	IEC 62321-5: 2013	ICP-OES	10mg/kg
	Mercury (Hg)	IEC 62321-4: 2013+AMD1:2017	ICP-OES	10mg/kg
	Chromium (Cr (VI))▼	IEC 62321-7-2:2017	UV-Vis	10mg/kg
		IEC 62321-7-1: 2015		0.10µg/cm <sup>2</sup>
	PBBs, PBDEs	IEC 62321-6: 2015	GC-MS	50 mg/kg

### 2. For the DEHP, DBP, BBP and DIBP:

Testing Item	Pretreatment Method	Measuring Instrument	MDL
Di (2-ethyl hexyl)-phthalate (DEHP)	IEC 62321-8: 2017	GC-MS	50mg/kg
Butylbenzyl phthalate (BBP)			50mg/kg
Dibutyl phthalate (DBP)			50mg/kg
Diisobuty phthalate (DIBP)			50mg/kg

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## 1. Description of the test subject:

Sample No.	Location	Sample Description
1	Shell	Black coating
2	Shell	Silver metal tube
3	Shell	Black plastic cover
4	Shell	Black plastic
5	Shell	Transparent plastic
6	Shell	Black plastic with white printing
7	Shell	Silver film with black printing with adhesive
8	Shell	Silver metal frame
9	Shell	Silver metal cap
10	Shell	Silver metal rod
11	Shell	Silver metal screw
12	Shell	Silver metal sheet
13	Shell	Black soft plastic cover
14	Shell	Black soft plastic with adhesive
15	Shell	Dark gray plated metal
16	Inside	Silver metal screw
17	Inside	Black plastic
18	Inside	Silver metal nut
19	Inside	Silver metal washer
20	Inside	Silver metal gasket
21	Inside	Black plated metal screw
22	Inside	Silver metal screw
23	Inside	Silver metal screw
24	Inside	Silver metal screw
25	Inside	Silver metal nut
26	Inside	Silver metal sheet
27	Inside	Silver metal sleeve
28	Inside	Silver metal nut
29	Inside	Silver metal washer
30	Inside	Bright silver metal
31	Inside	White double-sided adhesive
32	DC interface	Black plastic
33	DC interface	Silver metal ring
34	DC interface	Silver metal pin
35	DC interface	Silver metal sheet

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Sample No.	Location	Sample Description
36	Wire	White plastic
37	Wire	Silver metal terminal
38	Wire	Silver metal pin
39	Wire	Black soft plastic wire sheath
40	Wire	Red soft plastic wire sheath
41	Wire	Silver metal wire core
42	Wire	Black soft plastic fine wire sheath
43	Wire	White soft plastic fine wire sheath
44	Wire	Red soft plastic fine wire sheath
45	Wire	Yellow soft plastic fine wire sheath
46	Lamp board	Yellow LED
47	Lamp board	Orange LED
48	Lamp board	Chip resistor
49	Lamp board	White PCB board
50	Lamp board	Silver solder
51	PCB board	Silver metal spring
52	PCB board	LED transparent plastic
53	PCB board	LED silver metal pins
54	PCB board	Chip transistor
55	PCB board	Chip resistor
56	PCB board	Chip IC
57	PCB board	Chip capacitor
58	PCB board	Chip transistor
59	PCB board	Chip IC (small)
60	PCB board	Green PCB board
61	PCB board	PCB board solder
62	Shell	Black plastic
63	Shell	Black plastic sleeve
64	Shell	Silver metal
65	Inside	White glue
66	Inside	Black plastic sheet with adhesive
67	Wire	Gold metal terminal
68	Wire	Red soft plastic wire sheath
69	Wire	Black soft plastic wire sheath
70	Wire	Silver metal wire core
71	DC plug	Black soft plastic handle

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Sample No.	Location	Sample Description
72	DC plug	Silver metal sleeve
73	DC plug	Black plastic
74	DC plug	Silver metal pins
75	DC plug	Silver solder
76	Cable	Black soft plastic buckle
77	Cable	Black soft plastic wire sheath
78	Cable	Copper colored metal wire core
79	PCB board	Electrolytic capacitor green film
80	PCB board	Electrolytic capacitor silver metal shell
81	PCB board	Electrolytic capacitor black soft plastic
82	PCB board	Electrolytic capacitor electrolytic paper
83	PCB board	Electrolytic capacitor silver metal foil
84	PCB board	Electrolytic capacitor gray metal foil
85	PCB board	Electrolytic capacitor black film
86	PCB board	Blue Y capacitor
87	PCB board	X capacitor yellow plastic
88	PCB board	X capacitor silver adhesive film
89	PCB board	X capacitor silver metal pins
90	PCB board	Plastic fuse black plastic shell
91	PCB board	Plastic fuse black plastic base
92	PCB board	Plastic fuse silver metal pins
93	PCB board	Inductive yellow film with adhesive
94	PCB board	Inductive black magnetic frame
95	PCB board	Inductive black plastic
96	PCB board	Inductive copper metal coil
97	PCB board	CBB capacitor red plastic
98	PCB board	Inductive black soft plastic
99	PCB board	Inductive black magnetic rod
100	PCB board	Inductive copper metal coil
101	PCB board	Inductive silver metal pins
102	PCB board	Transformer yellow film with adhesive
103	PCB board	Transformer black plastic
104	PCB board	Transformer black magnetic frame
105	PCB board	Transformer copper metal coil
106	PCB board	Transformer yellow enameled wire
107	PCB board	Transformer silver metal pins

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Sample No.	Location	Sample Description
108	PCB board	Black transistor
109	PCB board	Silver metal pins for triodes
110	PCB board	Chip rectifier bridge
111	PCB board	Chip IC
112	PCB board	Chip resistor
113	PCB board	Chip diode
114	PCB board	Chip capacitor
115	PCB board	Black MOS tube
116	PCB board	Green/yellow PCB board
117	PCB board	PCB board solder
118	DC interface	Black plastic
119	DC interface	Silver metal pins
120	DC interface	Silver metal sheet
121	Wire	Red soft plastic wire sheath
122	Wire	Black soft plastic wire sheath
123	Shell	Black plastic
124	Shell	Black plastic sleeve
125	Shell	Silver metal
126	DC plug	Black soft plastic handle
127	DC plug	Silver metal sleeve
128	DC plug	Black plastic
129	DC plug	Silver metal pin
130	DC plug	Silver solder
131	Cable	Black soft plastic buckle
132	Cable	Black soft plastic sheath
133	Cable	Black soft plastic wire sheath
134	Cable	Red soft plastic wire sheath
135	Cable	Copper colored metal wire core

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## 2. Test results (Unit: mg/kg):

### 2.1 Test results of Cr (VI), Cd, Pb, Hg, PBBs, PBDEs:

No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr (V I))	Br (PBBs, PBDEs)	
1	Screening	BL	BL	BL	BL	BL	Comply
2	Screening	BL	BL	BL	BL	N.A.	Comply
3	Screening	BL	BL	BL	BL	BL	Comply
4	Screening	BL	BL	BL	BL	BL	Comply
5	Screening	BL	BL	BL	BL	BL	Comply
6	Screening	BL	BL	BL	BL	BL	Comply
7	Screening	BL	BL	BL	BL	BL	Comply
8	Screening	BL	BL	BL	BL	N.A.	Comply
9	Screening	BL	BL	BL	BL	N.A.	Comply
10	Screening	BL	BL	BL	BL	N.A.	Comply
11	Screening	BL	BL	BL	BL	N.A.	Comply
12	Screening	BL	BL	BL	BL	N.A.	Comply
13	Screening	BL	BL	BL	BL	BL	Comply
14	Screening	BL	BL	BL	BL	BL	Comply
15	Screening	BL	BL	BL	BL	N.A.	Comply
16	Screening	BL	BL	BL	BL	N.A.	Comply
17	Screening	BL	BL	BL	BL	BL	Comply
18	Screening	BL	BL	BL	BL	N.A.	Comply
19	Screening	BL	BL	BL	IN	N.A.	Comply
	Wet Chem.	---	---	---	Negative	---	
20	Screening	BL	BL	BL	BL	N.A.	Comply
21	Screening	BL	BL	BL	IN	N.A.	Comply
	Wet Chem.	---	---	---	Negative	---	
22	Screening	BL	BL	BL	BL	N.A.	Comply
23	Screening	BL	BL	BL	IN	N.A.	Comply
	Wet Chem.	---	---	---	Negative	---	
24	Screening	BL	BL	BL	BL	N.A.	Comply
25	Screening	BL	BL	BL	IN	N.A.	Comply
	Wet Chem.	---	---	---	Negative	---	
26	Screening	BL	BL	BL	IN	N.A.	Comply
	Wet Chem.	---	---	---	Negative	---	
27	Screening	BL	BL	BL	BL	N.A.	Comply
28	Screening	BL	BL	BL	BL	N.A.	Comply

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No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr (V I))	Br (PBBs, PBDEs)	
29	Screening	BL	BL	BL	IN	N.A.	Comply
	Wet Chem.	---	---	---	Negative	---	
30	Screening	BL	BL	BL	BL	N.A.	Comply
31	Screening	BL	BL	BL	BL	BL	Comply
32	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
33	Screening	BL	IN	BL	BL	N.A.	EXEMPTED
	Wet Chem.	---	24588	---	---	---	
34	Screening	BL	BL	BL	BL	N.A.	Comply
35	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
36	Screening	BL	BL	BL	BL	BL	Comply
37	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
38	Screening	BL	BL	BL	BL	N.A.	Comply
39	Screening	BL	BL	BL	BL	BL	Comply
40	Screening	BL	BL	BL	BL	BL	Comply
41	Screening	BL	BL	BL	BL	N.A.	Comply
42	Screening	BL	BL	BL	BL	BL	Comply
43	Screening	BL	BL	BL	BL	BL	Comply
44	Screening	BL	BL	BL	BL	BL	Comply
45	Screening	BL	BL	BL	BL	BL	Comply
46	Screening	BL	BL	BL	BL	BL	Comply
47	Screening	BL	BL	BL	BL	BL	Comply
48	Screening	BL	IN	BL	BL	BL	EXEMPTED
	Wet Chem.	---	1000	---	---	---	
49	Screening	BL	BL	BL	BL	BL	Comply
50	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
51	Screening	BL	BL	BL	BL	N.A.	Comply
52	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
53	Screening	BL	BL	BL	BL	N.A.	Comply
54	Screening	BL	BL	BL	BL	BL	Comply
55	Screening	BL	IN	BL	IN	BL	Comply
	Wet Chem.	---	588	---	N.D.	---	
56	Screening	BL	BL	BL	BL	BL	Comply

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No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr (V I))	Br (PBBs, PBDEs)	
57	Screening	BL	BL	BL	BL	BL	Comply
58	Screening	BL	BL	BL	BL	BL	Comply
59	Screening	BL	BL	BL	BL	BL	Comply
60	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
61	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
62	Screening	BL	BL	BL	BL	BL	Comply
63	Screening	BL	BL	BL	BL	BL	Comply
64	Screening	BL	BL	BL	BL	N.A.	Comply
65	Screening	BL	BL	BL	BL	BL	Comply
66	Screening	BL	BL	BL	BL	BL	Comply
67	Screening	BL	BL	BL	BL	N.A.	Comply
68	Screening	BL	BL	BL	BL	BL	Comply
69	Screening	BL	BL	BL	BL	BL	Comply
70	Screening	BL	BL	BL	BL	N.A.	Comply
71	Screening	BL	BL	BL	BL	BL	Comply
72	Screening	BL	BL	BL	BL	N.A.	Comply
73	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
74	Screening	BL	BL	BL	BL	N.A.	Comply
75	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
76	Screening	BL	BL	BL	BL	BL	Comply
77	Screening	BL	BL	BL	BL	BL	Comply
78	Screening	BL	BL	BL	BL	N.A.	Comply
79	Screening	BL	BL	BL	BL	BL	Comply
80	Screening	BL	BL	BL	BL	N.A.	Comply
81	Screening	BL	BL	BL	BL	BL	Comply
82	Screening	BL	BL	BL	BL	BL	Comply
83	Screening	BL	BL	BL	BL	N.A.	Comply
84	Screening	BL	BL	BL	BL	N.A.	Comply
85	Screening	BL	BL	BL	BL	BL	Comply
86	Screening	BL	BL	BL	BL	BL	Comply

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No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr (V I))	Br (PBBs, PBDEs)	
87	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
88	Screening	BL	BL	BL	BL	BL	Comply
89	Screening	BL	BL	BL	BL	N.A.	Comply
90	Screening	BL	BL	BL	BL	BL	Comply
91	Screening	IN	BL	BL	BL	BL	Comply
	Wet Chem.	N.D.	---	---	---	---	
92	Screening	BL	BL	BL	BL	N.A.	Comply
93	Screening	BL	BL	BL	BL	BL	Comply
94	Screening	BL	BL	BL	BL	BL	Comply
95	Screening	BL	BL	BL	BL	BL	Comply
96	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
97	Screening	BL	BL	BL	BL	BL	Comply
98	Screening	BL	BL	BL	BL	BL	Comply
99	Screening	BL	BL	BL	BL	BL	Comply
100	Screening	BL	BL	BL	BL	N.A.	Comply
101	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
102	Screening	BL	BL	BL	BL	BL	Comply
103	Screening	BL	BL	BL	BL	BL	Comply
104	Screening	BL	BL	BL	BL	BL	Comply
105	Screening	BL	BL	BL	BL	N.A.	Comply
106	Screening	BL	BL	BL	BL	N.A.	Comply
107	Screening	BL	BL	BL	BL	N.A.	Comply
108	Screening	BL	BL	BL	BL	BL	Comply
109	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
110	Screening	BL	IN	BL	BL	BL	<b>EXEMPTED</b>
	Wet Chem.	---	43281	---	---	---	
111	Screening	BL	BL	BL	BL	BL	Comply
112	Screening	BL	IN	BL	BL	BL	Comply
	Wet Chem.	---	685	---	---	---	
113	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
114	Screening	BL	BL	BL	BL	BL	Comply

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		Cd	Pb	Hg	Cr (Cr (V I))	Br (PBBs, PBDEs)	
115	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
116	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
117	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
118	Screening	BL	BL	BL	BL	BL	Comply
119	Screening	BL	BL	BL	BL	N.A.	Comply
120	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
121	Screening	BL	BL	BL	BL	BL	Comply
122	Screening	IN	BL	BL	BL	BL	Comply
	Wet Chem.	N.D.	---	---	---	---	
123	Screening	BL	BL	BL	BL	BL	Comply
124	Screening	BL	BL	BL	BL	BL	Comply
125	Screening	BL	IN	BL	BL	BL	<b>EXEMPTED</b>
	Wet Chem.	---	26853	---	---	---	
126	Screening	BL	BL	BL	BL	BL	Comply
127	Screening	BL	BL	BL	BL	N.A.	Comply
128	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
129	Screening	BL	BL	BL	BL	N.A.	Comply
130	Screening	IN	BL	BL	BL	N.A.	Comply
	Wet Chem.	N.D.	---	---	---	---	
131	Screening	BL	BL	BL	BL	BL	Comply
132	Screening	BL	BL	BL	BL	BL	Comply
133	Screening	BL	BL	BL	BL	BL	Comply
134	Screening	BL	BL	BL	BL	BL	Comply
135	Screening	BL	BL	BL	BL	N.A.	Comply

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## 2.2 The test results of DEHP, DBP, BBP, DIBP:

Group No.	Part No.	Test Method	Phthalates				Conclusion
			DEHP	DBP	BBP	DIBP	
1	1	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
2	3+4+5	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
3	6+7+17	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
4	13+14+31	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
5	32+36+49	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
6	39+40+42	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
7	43+44+45	Wet Chem.	110	120	N.D.	N.D.	Comply
8	46+47+52	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
9	60+62+63	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
10	65+66+73	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
11	68+69+71	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
12	76+77+81	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
13	79+82+85	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
14	87+88+90	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
15	91+93+97	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
16	98+102+103	Screening	N.D.	N.D.	N.D.	N.D.	Comply
17	106+116+118	Screening	N.D.	N.D.	N.D.	N.D.	Comply
18	121+122	Screening	N.D.	N.D.	N.D.	N.D.	Comply
19	123+124+128	Screening	N.D.	N.D.	N.D.	N.D.	Comply
20	126+131+132	Screening	N.D.	N.D.	N.D.	N.D.	Comply
21	133+134	Screening	N.D.	N.D.	N.D.	N.D.	Comply

Remark: While the test results were less than the one-third limits indicates the presence of Phthalates on the three tested areas and result were all be regarded as no conflict with the requirement.

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# Test Report

**Report No.: NB2023042932**
**Date: April 24, 2023**
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**Note:**

(1) (a) It is the result on total Br while test PBBs, PBDEs by XRF, It is the result on total Cr while test Cr (VI) by XRF.

(b) Results are obtained by XRF for primary screening and further chemical testing by ICP-OES (for Pb, Cd and Hg), UV-Vis (for Cr (VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3- 1:2013. (unit: mg/kg).

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

(c) The XRF screening test for RoHS elements –The reading may be different to the actual content in the sample be of non-uniformity composition.

(d) OL=Over Limit, BL=Below Limit, IN=Inconclusive, LOD= Limit of Detection;

(2) mg/kg=ppm=0.0001%, N.D.=Not detected(<MDL), MDL=Method Detection Limit, “---”=Not conducted, “--”=Not regulated, “N.A.”=Not available.

(3) “▼” =Metal sample

- 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 sample is negative for Cr (VI) if 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 result between 0.10  $\mu\text{g}/\text{cm}^2$  and 0.13  $\mu\text{g}/\text{cm}^2$  is considered to be inconclusive- unavoidable coating variations may influence the determination; Information on storage conditions and production date of the tested sample is unavailable and thus Cr (VI) results represent status of the sample at the time of testing.

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# Test Report

**Report No.: NB2023042932**

**Date: April 24, 2023**

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**(4) RoHS Requirement**

Restricted substances	Limits
Lead (Pb)	0.1% (1000 ppm)
Cadmium (Cd)	0.01% (100 ppm)
Chromium(VI) (Cr (VI))	0.1% (1000 ppm)
Mercury (Hg)	0.1% (1000 ppm)
Polybrominated biphenyls (PBBs)	0.1% (1000 ppm)
Polybrominated diphenyl ethers (PBDEs)	0.1% (1000 ppm)
Di (2-ethyl hexyl)-phthalate (DEHP)	0.1% (1000 ppm)
Butylbenzyl phthalate (BBP)	0.1% (1000 ppm)
Dibutyl phthalate (DBP)	0.1% (1000 ppm)
Diisobutyl phthalate (DIBP)	0.1% (1000 ppm)

The above limits are reference with RoHS Directive 2011/65/EU and amendment 2015/863/EU.

(5) Specimens, which requested to determine Cadmium, Mercury and Lead Content, have been dissolved completely.

(6) Results shown are of the total weight of mixed samples.

(7) According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 7(c)-I is reiterated here "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezo electronic devices, or in a glass or ceramic matrix compound.". Test Item < I048,I110> was claimed as is by client. Therefore, this Test Item containing the found lead level should be exempted.

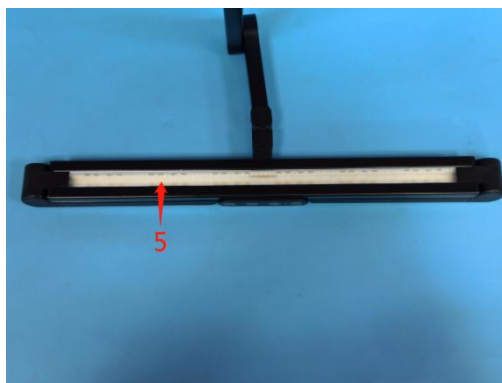
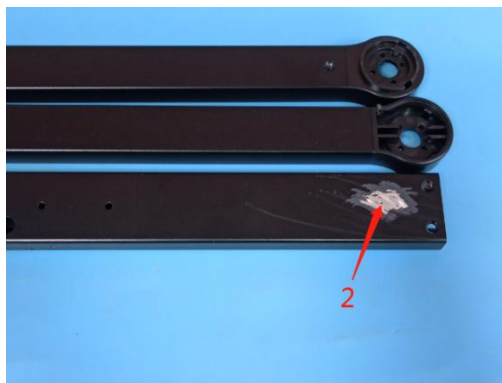
(8) According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here "Copper alloy containing up to 4 % lead by weight.". Test Items < I033,I125> were claimed as is by client . Therefore, these Test Items containing the found lead level should be exempted.

**Disclaimer Measurement Uncertainty:**

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

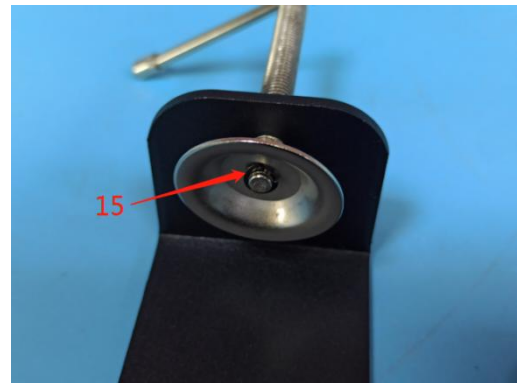
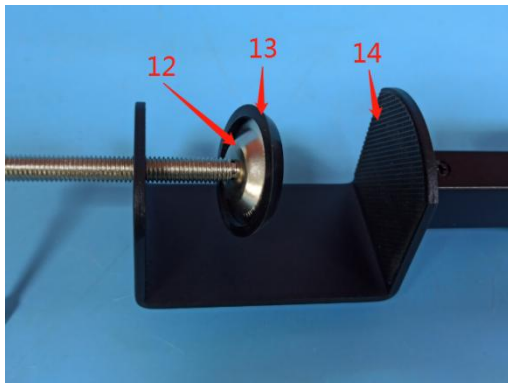
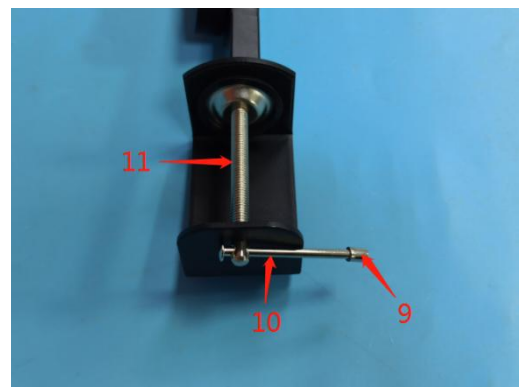
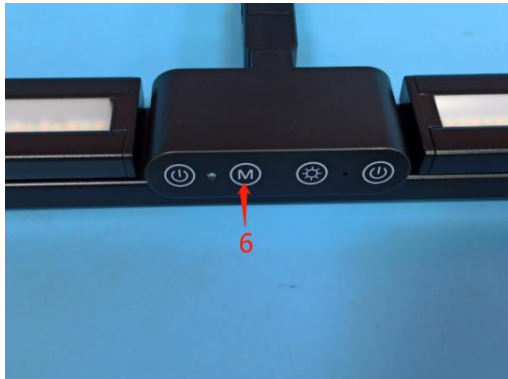
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**Photographs of Sample:**



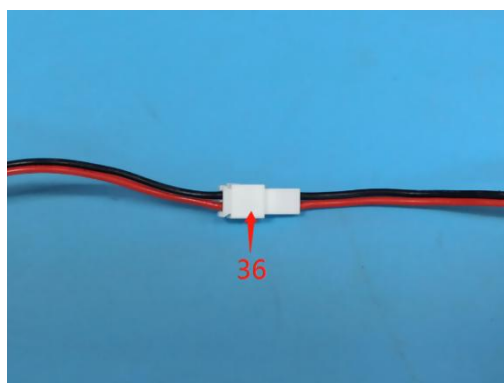
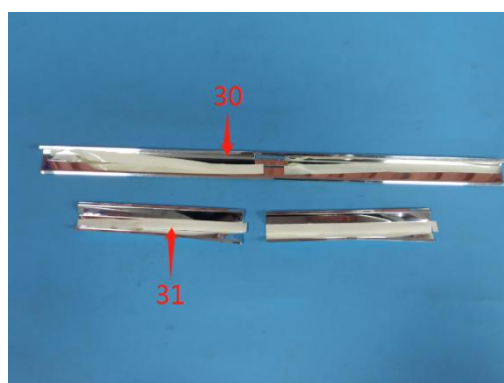
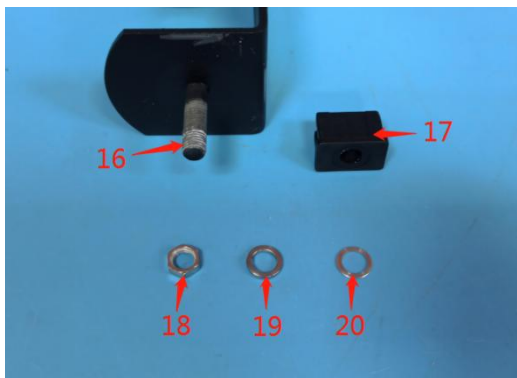
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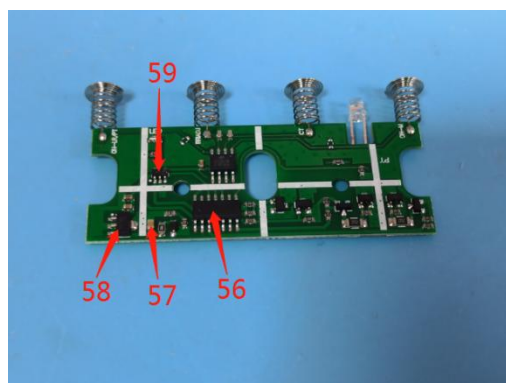
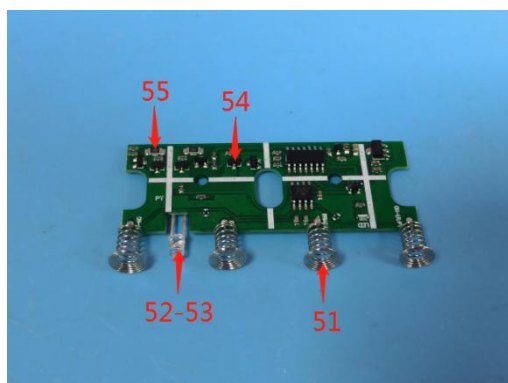
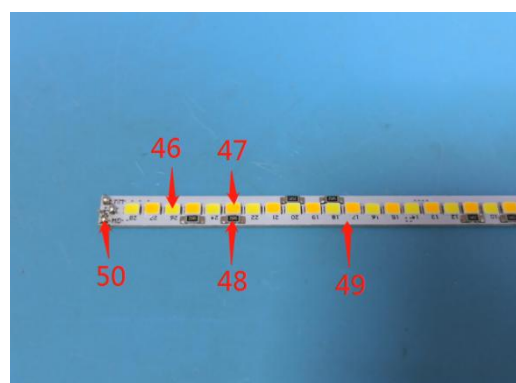
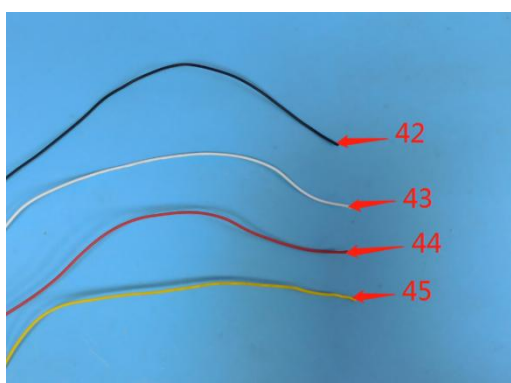
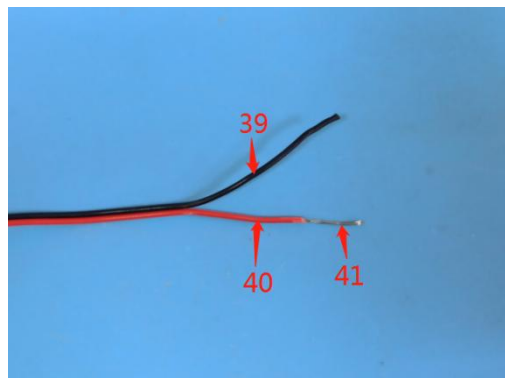
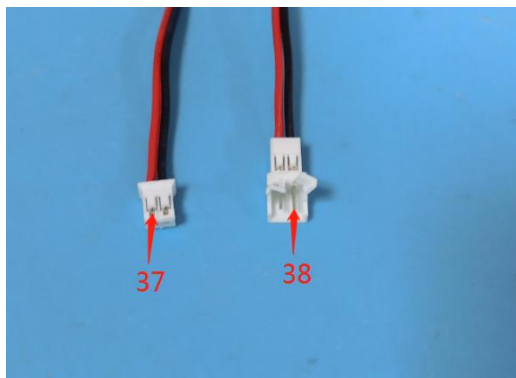


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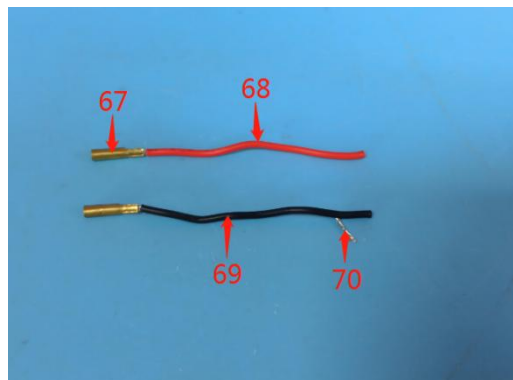
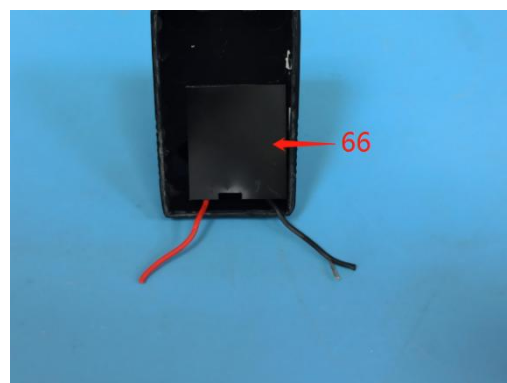
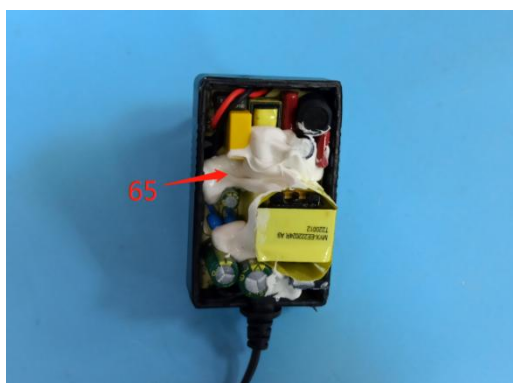
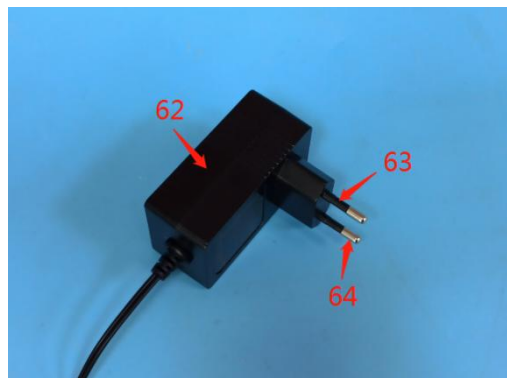
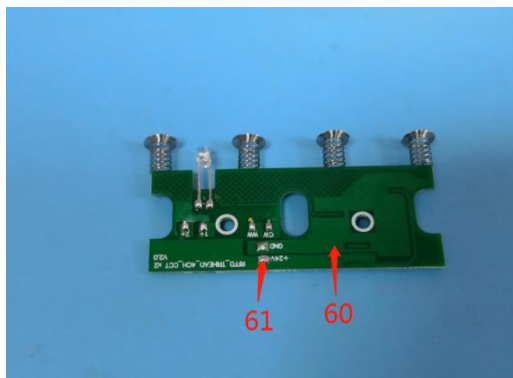




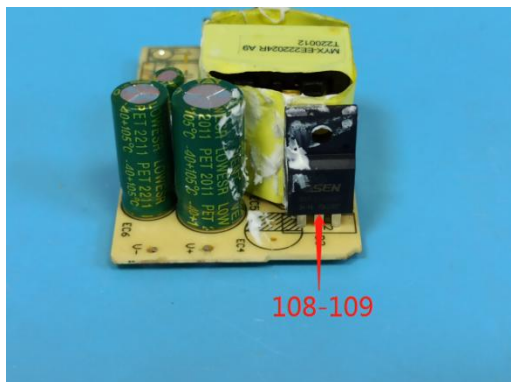
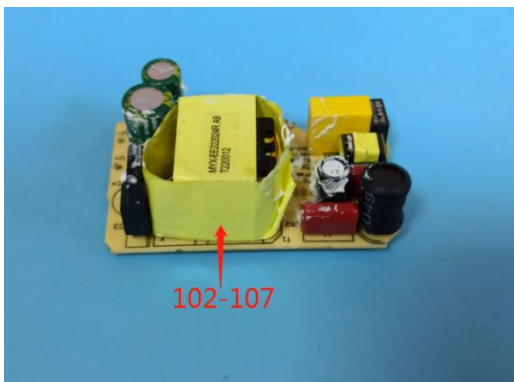
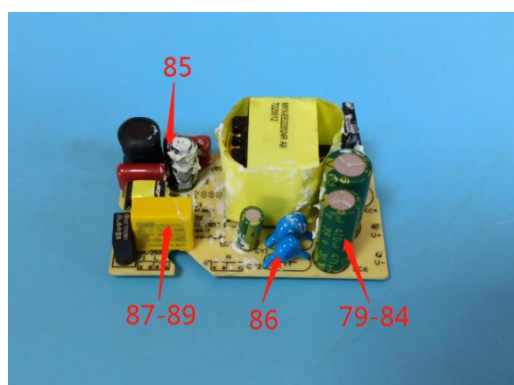
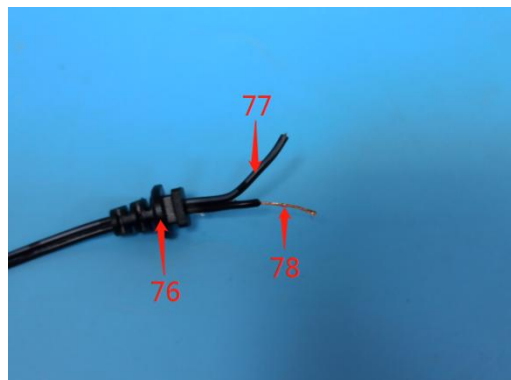
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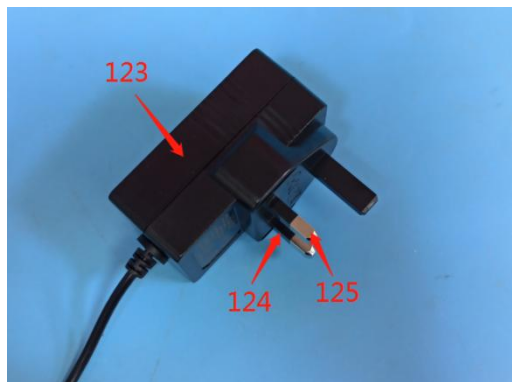
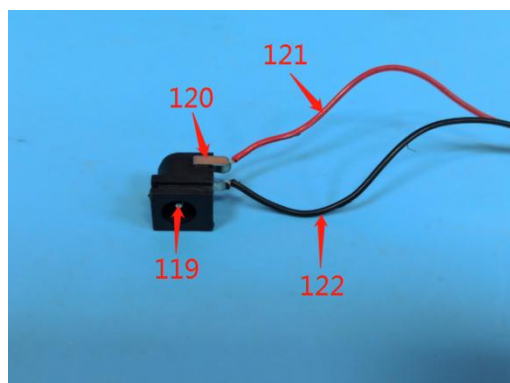
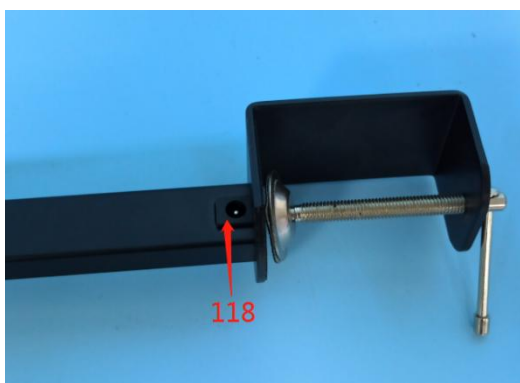
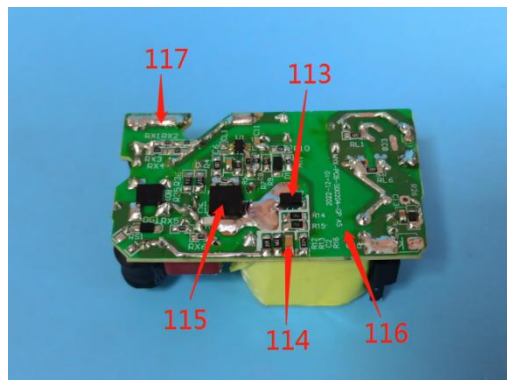
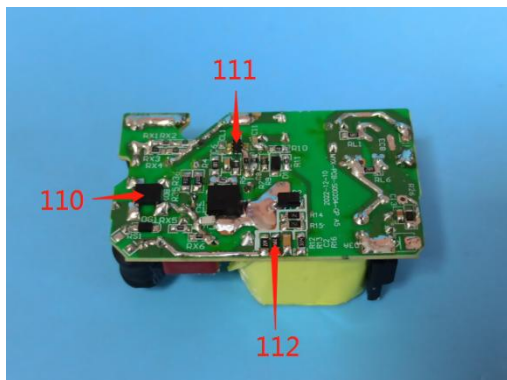


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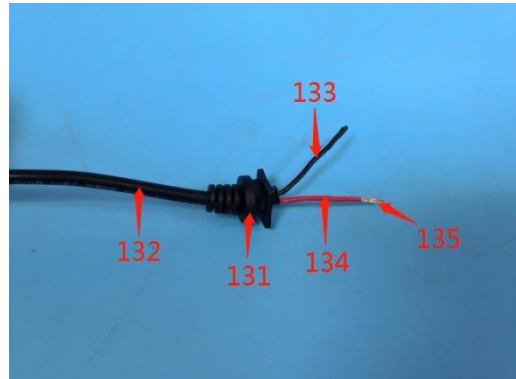


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Pictures only for reference submitted by client



Model FDDL02



Model FDDL04



Model FDDL07



Model FDDL09

\*\*\* End of Report \*\*\*

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