

Report No.: DGC230530043NE

Page 1 of 37

**Applicant** : UNI-TREND TECHNOLOGY (CHINA) CO.,LTD.  
**Address** : No 6, Gong Ye Bei 1 st Road, Songshan Lake National High-Tech Industrial Development Zone, Dongguan City, Guangdong Province, China

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

**Product Name** : Digital Multimeter  
**Model** : UT15B MAX, UT17B MAX, UT18B MAX  
**Manufacturer** : UNI-TREND TECHNOLOGY (CHINA) CO.,LTD.  
**Address** : No 6, Gong Ye Bei 1 st Road, Songshan Lake National High-Tech Industrial Development Zone, Dongguan City, Guangdong Province, China

**Date of Sample Received** : May. 30, 2023  
**Test period** : May. 30, 2023 - Jun. 08, 2023

**Test requested**

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), Diisobuty phthalate (DIBP) content on submitted samples.  
With reference to 2012 No. 3032 Environmental Protection in United Kingdom-The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (Amendment) Regulations 2012 and its amendment regulations 2021(UK ROHS).

**Conclusion**

Pass

Pass

**Test method** : Please refer to next page.

**Test result** : Please refer to next page.

**Approved by:**

*Richard Ke*  
Richard Ke  
(Signed for and on behalf)



Jun. 13, 2023

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**Dongguan NTEK Testing Technology Co., Ltd.**

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**ROHS 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	2mg/kg
	Cadmium (Cd)	IEC 62321-5: 2013	ICP-OES	2mg/kg
	Mercury (Hg)	IEC 62321-4: 2013+AMD1:2017	ICP-OES	2mg/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	5 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	30mg/kg
Butylbenzyl phthalate (BBP)			30mg/kg
Dibutyl phthalate (DBP)			30mg/kg
Diisobuty phthalate (DIBP)			30mg/kg

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**UK ROHS Test method:**
**1. For the Cadmium (Cd), Lead (Pb), Mercury (Hg), Chromium (Cr (VI)), PBBs, PBDEs:**

With reference to BS EN 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		BS EN 62321-3-1: 2014 scanning	XRF	--
Wet Chemical test	Lead (Pb)	BS EN 62321-5: 2014	ICP-OES	2mg/kg
	Cadmium (Cd)	BS EN 62321-5: 2014	ICP-OES	2mg/kg
	Mercury (Hg)	BS EN 62321-4: 2014+A1: 2017	ICP-OES	2mg/kg
	Chromium (Cr (VI))▼	BS EN 62321-7-2: 2017	UV-Vis	10mg/kg
		BS EN 62321-7-1: 2015		0.10µg/cm <sup>2</sup>
PBBs, PBDEs	BS EN 62321-6: 2015	GC-MS	5 mg/kg	

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

Testing Item	Pretreatment Method	Measuring Instrument	MDL
Di (2-ethyl hexyl)-phthalate (DEHP)	BS EN 62321-8: 2017	GC-MS	30mg/kg
Butylbenzyl phthalate (BBP)			30mg/kg
Dibutyl phthalate (DBP)			30mg/kg
Diisobuty phthalate (DIBP)			30mg/kg

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## 1. Description of the test subject:

Sample No.	Location	Sample Description
1	Shell assembly	Red soft plastic sleeve
2	Shell assembly	Deep red soft plastic
3	Shell assembly	Dark gray with white/yellow plastic case
4	Shell assembly	Transparent plastic sheet
5	Shell assembly	Red plastic cylinder
6	Shell assembly	Black plastic drum
7	Shell assembly	Beige plastic pieces
8	Shell assembly	Silver metal buckle
9	Shell assembly	Silver drum
10	Shell assembly	Silver metal frame
11	Shell assembly	White lubricating oil
12	Shell assembly	Silver metal steel ball
13	Shell assembly	Silver metal spring
14	Shell assembly	Gold drum
15	Shell assembly	Silver metal spring
16	Shell assembly	soft plastic cushion beige
17	Shell assembly	Beige with blue/white printed soft adhesive keys
18	Shell assembly	Black with white printed soft adhesive keys
19	Shell assembly	Beige with yellow/white printed soft adhesive keys
20	Shell assembly	Black soft plastic pad
21	Shell assembly	Black coating
22	Shell assembly	Silver metal frame
23	Shell assembly	Black metal screw
24	Shell assembly	Silver metal screw
25	Shell assembly	Silver metal belt ring screws
26	Display screen	Silver film
27	Display screen	Translucent plastic sheet
28	Display screen	White film

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Sample No.	Location	Sample Description
29	Display screen	Off-white film
30	Display screen	Transparent double-sided adhesive
31	Display screen	Gray/black soft plastic strip
32	Display screen	Silver film
33	Display screen	Grey transparent adhesive film
34	Display screen	Clear glass plate
35	PCB board module	Black plastic rack
36	PCB board module	Light gold sheet metal
37	PCB board module	Dark grey soft plastic sleeve
38	PCB board module	Silver sheet
39	PCB board module	Clear patch LED
40	PCB board module	Chip inductance
41	PCB board module	White patch LED
42	PCB board module	Patch color ring resistor
43	PCB board module	Brown patch capacitor
44	PCB board module	PCB board solder
45	PCB board module	Green PCB board
46	PCB board module	Silver sheet
47	PCB board module	Thermistor sleeve black
48	PCB board module	Thermistor Green body
49	PCB board module	Thermistor pin
50	PCB board module	Capacitor body blue
51	PCB board module	Capacitance pin
52	PCB board module	Color ring Resistor Green body
53	PCB board module	Color ring resistance pin
54	PCB board module	Silver sheet
55	PCB board module	Patch triode
56	PCB board module	Silver metal spring
57	PCB board module	Patch diode

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Sample No.	Location	Sample Description
58	PCB board module	Silver metal base
59	PCB board module	Fuse silver metal cap
60	PCB board module	Fuse white/green/black sticker
61	PCB board module	Fuse white fiber sleeve
62	PCB board module	The fuse is filled with white grain
63	PCB board module	Fuse copper metal sheet
64	PCB board module	Varistor body blue
65	PCB board module	Varistor pin
66	PCB board module	Patch rectifier bridge
67	PCB board module	Safety tube white/blue/black sticker
68	PCB board module	Brown patch large capacitance
69	PCB board module	Clear adhesive
70	PCB board module	Inductive brown plastic case
71	PCB board module	Inductor black adhesive
72	PCB board module	Inductance yellow enamelled wire
73	PCB board module	Inductance magnetic ring with green coating
74	PCB board module	Inductor pin
75	PCB board module	Patch IC
76	PCB board module	White patch capacitor
77	PCB board module	Patch resistance
78	PCB board module	Crystal oscillator body
79	PCB board module	Crystal oscillator pin
80	PCB board module	Black plastic seat
81	PCB board module	Chip inductance
82	PCB board module	Yellow patch capacitor
83	PCB board module	Patch IC small
84	PCB board module	Patch IC
85	PCB board module	Patch IC
86	PCB board module	Patch IC length

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Sample No.	Location	Sample Description
87	PCB board module	Buzzer Black plastic case
88	PCB board module	Buzzer diaphragm silver metal
89	PCB board module	Buzzer Silver metal gasket
90	PCB board module	Buzzer magnetic ring
91	PCB board module	Buzzer copper enamelled wire
92	PCB board module	Buzzer wire wound metal holder
93	PCB board module	Buzzer White Glue
94	PCB board module	Buzzer PCB board
95	PCB board module	Buzzer PCB board solder
96	PCB board module	Buzzer bottom black filler
97	PCB board module	Buzzer pin
98	PCB board module	Patch IC
99	PCB board module	Chip inductor body

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

### ROHS

#### 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 (VI))	Br (PBBs, PBDEs)	
1	Screening	BL	BL	BL	BL	BL	Pass
2	Screening	BL	BL	BL	BL	BL	Pass
3	Screening	BL	BL	BL	BL	BL	Pass
4	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
5	Screening	BL	BL	BL	BL	BL	Pass
6	Screening	BL	BL	BL	BL	BL	Pass
7	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
8	Screening	BL	BL	BL	BL	N.A.	Pass
9	Screening	BL	OL 17582 See Note (5)	BL	BL	N.A.	Pass
10	Screening	BL	OL 16886 See Note (5)	BL	BL	N.A.	Pass
11	Screening	BL	BL	BL	BL	BL	Pass
12	Screening	BL	BL	BL	BL	N.A.	Pass
13	Screening	BL	BL	BL	BL	N.A.	Pass
14	Screening	BL	IN	BL	BL	N.A.	Pass
	Wet Chem.	---	OL 24500 See Note (5)	---	---	---	
15	Screening	BL	BL	BL	BL	N.A.	Pass
16	Screening	BL	BL	BL	BL	BL	Pass
17	Screening	BL	BL	BL	BL	BL	Pass
18	Screening	BL	BL	BL	BL	BL	Pass
19	Screening	BL	BL	BL	BL	BL	Pass
20	Screening	BL	BL	BL	BL	BL	Pass
21	Screening	BL	BL	BL	BL	BL	Pass

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No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr (VI))	Br (PBBs, PBDEs)	
22	Screening	BL	BL	BL	IN	N.A.	Pass
	Wet Chem.	---	---	---	N.D.	---	
23	Screening	BL	BL	BL	BL	N.A.	Pass
24	Screening	BL	BL	BL	BL	N.A.	Pass
25	Screening	BL	BL	BL	BL	N.A.	Pass
26	Screening	BL	BL	BL	BL	BL	Pass
27	Screening	BL	BL	BL	BL	BL	Pass
28	Screening	BL	BL	BL	BL	BL	Pass
29	Screening	BL	BL	BL	BL	BL	Pass
30	Screening	BL	BL	BL	BL	BL	Pass
31	Screening	BL	BL	BL	BL	BL	Pass
32	Screening	BL	BL	BL	BL	BL	Pass
33	Screening	BL	BL	BL	BL	BL	Pass
34	Screening	BL	BL	BL	BL	BL	Pass
35	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
36	Screening	BL	BL	BL	BL	N.A.	Pass
37	Screening	BL	BL	BL	BL	BL	Pass
38	Screening	BL	BL	BL	BL	N.A.	Pass
39	Screening	BL	BL	BL	BL	BL	Pass
40	Screening	BL	BL	BL	BL	BL	Pass
41	Screening	BL	BL	BL	BL	BL	Pass
42	Screening	BL	BL	BL	BL	BL	Pass
43	Screening	BL	BL	BL	BL	BL	Pass
44	Screening	BL	BL	BL	BL	N.A.	Pass
45	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
46	Screening	BL	BL	BL	BL	N.A.	Pass
47	Screening	BL	BL	BL	BL	BL	Pass

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No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs, PBDEs)	
48	Screening	BL	OL 730 See Note (6)	BL	IN	BL	Pass
	Wet Chem.	---	---	---	N.D.	---	
49	Screening	BL	BL	BL	BL	N.A.	Pass
50	Screening	BL	BL	BL	BL	BL	Pass
51	Screening	BL	BL	BL	BL	N.A.	Pass
52	Screening	BL	BL	BL	IN	BL	Pass
	Wet Chem.	---	---	---	N.D.	---	
53	Screening	BL	BL	BL	BL	N.A.	Pass
54	Screening	BL	BL	BL	IN	N.A.	Pass
	Wet Chem.	---	---	---	N.D.	---	
55	Screening	BL	BL	BL	BL	BL	Pass
56	Screening	BL	BL	BL	BL	N.A.	Pass
57	Screening	BL	OL 2619 See Note (7)	BL	BL	BL	Pass
	Screening	BL	BL	BL	BL	N.A.	
59	Screening	BL	BL	BL	BL	N.A.	Pass
60	Screening	BL	BL	BL	BL	BL	Pass
61	Screening	BL	BL	BL	BL	BL	Pass
62	Screening	BL	BL	BL	BL	BL	Pass
63	Screening	BL	BL	BL	BL	N.A.	Pass
64	Screening	BL	BL	BL	BL	BL	Pass
65	Screening	BL	BL	BL	BL	N.A.	Pass
66	Screening	BL	OL 2445 See Note (7)	BL	BL	BL	Pass
	Screening	BL	BL	BL	BL	BL	
68	Screening	BL	BL	BL	BL	BL	Pass
69	Screening	BL	BL	BL	BL	BL	Pass
70	Screening	BL	BL	BL	BL	BL	Pass
71	Screening	BL	BL	BL	BL	BL	Pass

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No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs, PBDEs)	
72	Screening	BL	BL	BL	BL	BL	Pass
73	Screening	BL	BL	BL	BL	BL	Pass
74	Screening	BL	BL	BL	BL	N.A.	Pass
75	Screening	BL	BL	BL	BL	BL	Pass
76	Screening	BL	BL	BL	BL	BL	Pass
77	Screening	BL	BL	BL	BL	BL	Pass
78	Screening	BL	BL	BL	BL	N.A.	Pass
79	Screening	BL	BL	BL	BL	N.A.	Pass
80	Screening	BL	BL	BL	BL	BL	Pass
81	Screening	BL	BL	BL	BL	BL	Pass
82	Screening	BL	BL	BL	BL	BL	Pass
83	Screening	BL	BL	BL	BL	BL	Pass
84	Screening	BL	BL	BL	BL	BL	Pass
85	Screening	BL	BL	BL	BL	BL	Pass
86	Screening	BL	BL	BL	BL	BL	Pass
87	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
88	Screening	BL	BL	BL	BL	N.A.	Pass
89	Screening	BL	BL	BL	BL	N.A.	Pass
90	Screening	BL	BL	BL	BL	BL	Pass
91	Screening	BL	BL	BL	BL	BL	Pass
92	Screening	BL	BL	BL	BL	N.A.	Pass
93	Screening	BL	BL	BL	BL	BL	Pass
94	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
95	Screening	BL	BL	BL	BL	N.A.	Pass
96	Screening	BL	BL	BL	BL	BL	Pass
97	Screening	BL	BL	BL	BL	N.A.	Pass
98	Screening	BL	BL	BL	BL	BL	Pass
99	Screening	BL	BL	BL	BL	BL	Pass

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## UK ROHS

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

No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr (VI))	Br (PBBs, PBDEs)	
1	Screening	BL	BL	BL	BL	BL	Pass
2	Screening	BL	BL	BL	BL	BL	Pass
3	Screening	BL	BL	BL	BL	BL	Pass
4	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
5	Screening	BL	BL	BL	BL	BL	Pass
6	Screening	BL	BL	BL	BL	BL	Pass
7	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
8	Screening	BL	BL	BL	BL	N.A.	Pass
9	Screening	BL	OL 17582 See Note (5)	BL	BL	N.A.	Pass
10	Screening	BL	OL 16886 See Note (5)	BL	BL	N.A.	Pass
11	Screening	BL	BL	BL	BL	BL	Pass
12	Screening	BL	BL	BL	BL	N.A.	Pass
13	Screening	BL	BL	BL	BL	N.A.	Pass
14	Screening	BL	IN	BL	BL	N.A.	Pass
	Wet Chem.	---	OL 24600 See Note (5)	---	---	---	
15	Screening	BL	BL	BL	BL	N.A.	Pass
16	Screening	BL	BL	BL	BL	BL	Pass
17	Screening	BL	BL	BL	BL	BL	Pass
18	Screening	BL	BL	BL	BL	BL	Pass
19	Screening	BL	BL	BL	BL	BL	Pass
20	Screening	BL	BL	BL	BL	BL	Pass
21	Screening	BL	BL	BL	BL	BL	Pass

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No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs, PBDEs)	
22	Screening	BL	BL	BL	IN	N.A.	Pass
	Wet Chem.	---	---	---	N.D.	---	
23	Screening	BL	BL	BL	BL	N.A.	Pass
24	Screening	BL	BL	BL	BL	N.A.	Pass
25	Screening	BL	BL	BL	BL	N.A.	Pass
26	Screening	BL	BL	BL	BL	BL	Pass
27	Screening	BL	BL	BL	BL	BL	Pass
28	Screening	BL	BL	BL	BL	BL	Pass
29	Screening	BL	BL	BL	BL	BL	Pass
30	Screening	BL	BL	BL	BL	BL	Pass
31	Screening	BL	BL	BL	BL	BL	Pass
32	Screening	BL	BL	BL	BL	BL	Pass
33	Screening	BL	BL	BL	BL	BL	Pass
34	Screening	BL	BL	BL	BL	BL	Pass
35	Screening	BL	BL	BL	BL	BL	Pass
36	Screening	BL	BL	BL	BL	N.A.	Pass
37	Screening	BL	BL	BL	BL	BL	Pass
38	Screening	BL	BL	BL	BL	N.A.	Pass
39	Screening	BL	BL	BL	BL	BL	Pass
40	Screening	BL	BL	BL	BL	BL	Pass
41	Screening	BL	BL	BL	BL	BL	Pass
42	Screening	BL	BL	BL	BL	BL	Pass
43	Screening	BL	BL	BL	BL	BL	Pass
44	Screening	BL	BL	BL	BL	N.A.	Pass
45	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
46	Screening	BL	BL	BL	BL	N.A.	Pass
47	Screening	BL	BL	BL	BL	BL	Pass

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No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs, PBDEs)	
48	Screening	BL	OL 730 See Note (6)	BL	IN	BL	Pass
	Wet Chem.	---	---	---	N.D.	---	
49	Screening	BL	BL	BL	BL	N.A.	Pass
50	Screening	BL	BL	BL	BL	BL	Pass
51	Screening	BL	BL	BL	BL	N.A.	Pass
52	Screening	BL	BL	BL	IN	BL	Pass
	Wet Chem.	---	---	---	N.D.	---	
53	Screening	BL	BL	BL	BL	N.A.	Pass
54	Screening	BL	BL	BL	IN	N.A.	Pass
	Wet Chem.	---	---	---	N.D.	---	
55	Screening	BL	BL	BL	BL	BL	Pass
56	Screening	BL	BL	BL	BL	N.A.	Pass
57	Screening	BL	OL 2619 See Note (7)	BL	BL	BL	Pass
	Screening	BL	BL	BL	BL	N.A.	
59	Screening	BL	BL	BL	BL	N.A.	Pass
60	Screening	BL	BL	BL	BL	BL	Pass
61	Screening	BL	BL	BL	BL	BL	Pass
62	Screening	BL	BL	BL	BL	BL	Pass
63	Screening	BL	BL	BL	BL	N.A.	Pass
64	Screening	BL	BL	BL	BL	BL	Pass
65	Screening	BL	BL	BL	BL	N.A.	Pass
66	Screening	BL	OL 2445 See Note (7)	BL	BL	BL	Pass
	Screening	BL	BL	BL	BL	BL	
67	Screening	BL	BL	BL	BL	BL	Pass
68	Screening	BL	BL	BL	BL	BL	Pass
69	Screening	BL	BL	BL	BL	BL	Pass
70	Screening	BL	BL	BL	BL	BL	Pass
71	Screening	BL	BL	BL	BL	BL	Pass

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No.	Test Method	Heavy Metals and Flame Retardants					Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs, PBDEs)	
72	Screening	BL	BL	BL	BL	BL	Pass
73	Screening	BL	BL	BL	BL	BL	Pass
74	Screening	BL	BL	BL	BL	N.A.	Pass
75	Screening	BL	BL	BL	BL	BL	Pass
76	Screening	BL	BL	BL	BL	BL	Pass
77	Screening	BL	BL	BL	BL	BL	Pass
78	Screening	BL	BL	BL	BL	N.A.	Pass
79	Screening	BL	BL	BL	BL	N.A.	Pass
80	Screening	BL	BL	BL	BL	BL	Pass
81	Screening	BL	BL	BL	BL	BL	Pass
82	Screening	BL	BL	BL	BL	BL	Pass
83	Screening	BL	BL	BL	BL	BL	Pass
84	Screening	BL	BL	BL	BL	BL	Pass
85	Screening	BL	BL	BL	BL	BL	Pass
86	Screening	BL	BL	BL	BL	BL	Pass
87	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
88	Screening	BL	BL	BL	BL	N.A.	Pass
89	Screening	BL	BL	BL	BL	N.A.	Pass
90	Screening	BL	BL	BL	BL	BL	Pass
91	Screening	BL	BL	BL	BL	BL	Pass
92	Screening	BL	BL	BL	BL	N.A.	Pass
93	Screening	BL	BL	BL	BL	BL	Pass
94	Screening	BL	BL	BL	BL	IN	Pass
	Wet Chem.	---	---	---	---	N.D.	
95	Screening	BL	BL	BL	BL	N.A.	Pass
96	Screening	BL	BL	BL	BL	BL	Pass
97	Screening	BL	BL	BL	BL	N.A.	Pass
98	Screening	BL	BL	BL	BL	BL	Pass
99	Screening	BL	BL	BL	BL	BL	Pass

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**ROHS**

**2.3 The test results of DEHP, DBP, BBP, DIBP:**

Group No.	Part No.	Test Method	Phthalates				Conclusion
			DEHP	DBP	BBP	DIBP	
1	1+2+16	Wet Chem.	BL	BL	BL	BL	Pass
2	17+18+19	Wet Chem.	BL	BL	BL	BL	Pass
3	20+31	Wet Chem.	BL	BL	BL	BL	Pass
4	37+47	Wet Chem.	BL	BL	BL	BL	Pass
5	11+21+26+32+33+61	Wet Chem.	BL	BL	BL	BL	Pass
6	69+71+72+73+91+93	Wet Chem.	BL	BL	BL	BL	Pass
7	28+29+30+60+67+62	Wet Chem.	BL	BL	BL	BL	Pass
8	39+41+45+94+96	Wet Chem.	BL	BL	BL	BL	Pass
9	27+35+70+80+87	Wet Chem.	BL	BL	BL	BL	Pass
10	3+4+5+6+7	Wet Chem.	BL	BL	BL	BL	Pass

Remark:

- (1) While the test results were less than the one-half limits indicates the presence of Phthalates on the two tested areas and result were all be regarded as no conflict with the requirement;
- (2) 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;
- (3) While the test results were less than the one-fifth limits indicates the presence of Phthalates on the five tested areas and result were all be regarded as no conflict with the requirement;
- (4) While the test results were less than the one-sixth limits indicates the presence of Phthalates on the six tested areas and result were all be regarded as no conflict with the requirement.

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**UK ROHS**

**2.4 The test results of DEHP, DBP, BBP, DIBP:**

Group No.	Part No.	Test Method	Phthalates				Conclusion
			DEHP	DBP	BBP	DIBP	
1	1+2+16	Wet Chem.	BL	BL	BL	BL	Pass
2	17+18+19	Wet Chem.	BL	BL	BL	BL	Pass
3	20+31	Wet Chem.	BL	BL	BL	BL	Pass
4	37+47	Wet Chem.	BL	BL	BL	BL	Pass
5	11+21+26+32+33+61	Wet Chem.	BL	BL	BL	BL	Pass
6	69+71+72+73+91+93	Wet Chem.	BL	BL	BL	BL	Pass
7	28+29+30+60+67+62	Wet Chem.	BL	BL	BL	BL	Pass
8	39+41+45+94+96	Wet Chem.	BL	BL	BL	BL	Pass
9	27+35+70+80+87	Wet Chem.	BL	BL	BL	BL	Pass
10	3+4+5+6+7	Wet Chem.	BL	BL	BL	BL	Pass

Remark:

- (1) While the test results were less than the one-half limits indicates the presence of Phthalates on the two tested areas and result were all be regarded as no conflict with the requirement;
- (2) 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;
- (3) While the test results were less than the one-fifth limits indicates the presence of Phthalates on the five tested areas and result were all be regarded as no conflict with the requirement;
- (4) While the test results were less than the one-sixth limits indicates the presence of Phthalates on the six tested areas and result were all be regarded as no conflict with the requirement.

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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 applicable.

(3)“▼” =Metal sample

- a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13 µg/cm<sup>2</sup>.  
The sample coating is considered to contain Cr (VI) ;
- b. The sample is negative for Cr (VI) if Cr (VI) concentration is less than 0.10 µg/cm<sup>2</sup>.  
The coating is considered a non-Cr (VI) based coating ;
- c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> 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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(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) In accordance with RoHS Directive (2011/65/EU) Annex III Exemption list 6(c), the lead content in copper alloy is exempted up to 4 % by weight.

(6) In accordance with RoHS Directive (2011/65/EU) Annex III Exemption list 7(c)-1, the lead content in glass and ceramic of electronic components is exempted.

(7) According to the declaration provided by the client, the sample material is based on In accordance with RoHS Directive (2011/65/EU) Annex III Exemption list 7(a), Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead) is exempted.

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**Photographs of Sample:**



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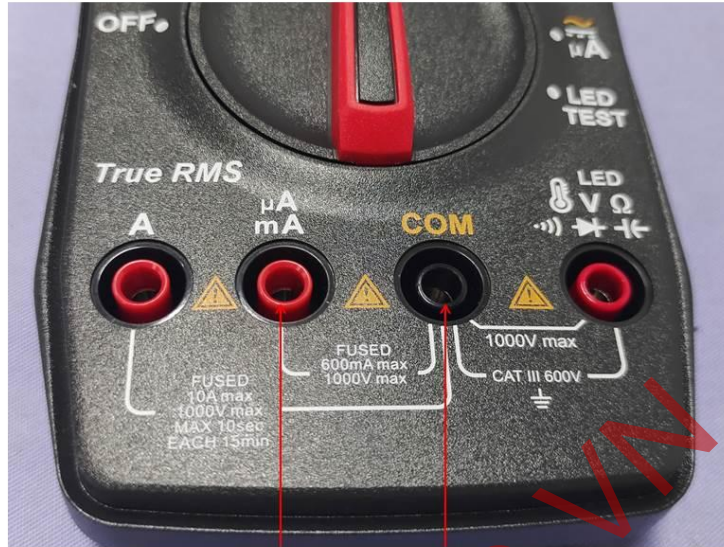
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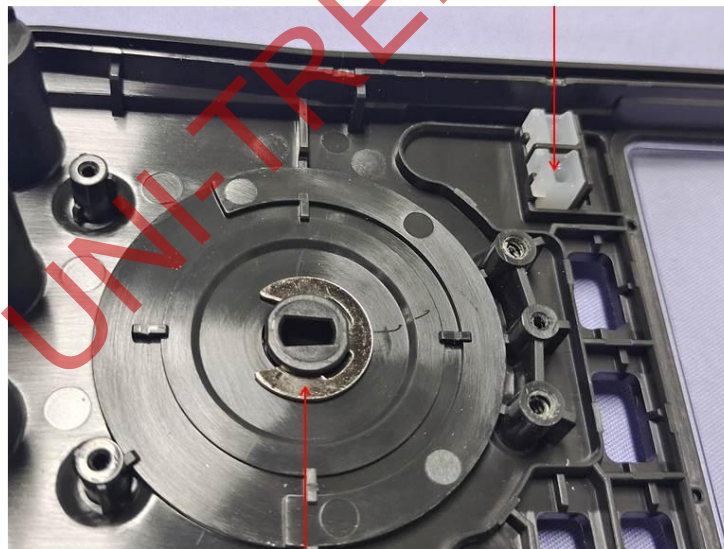
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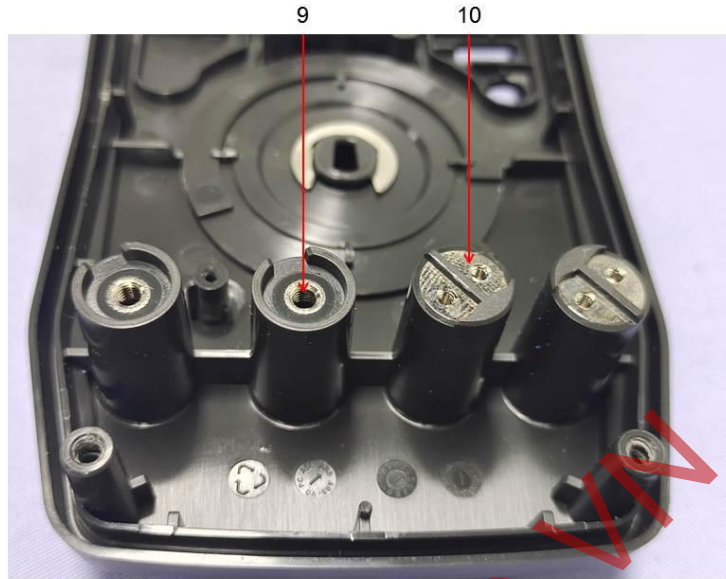
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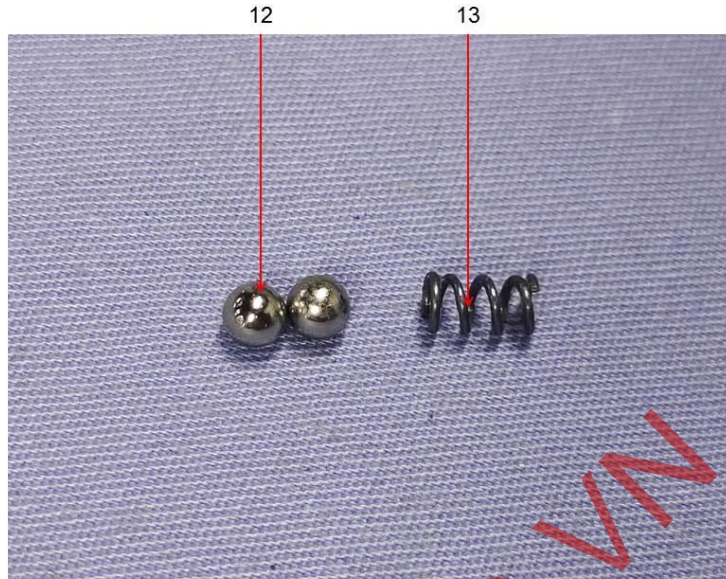
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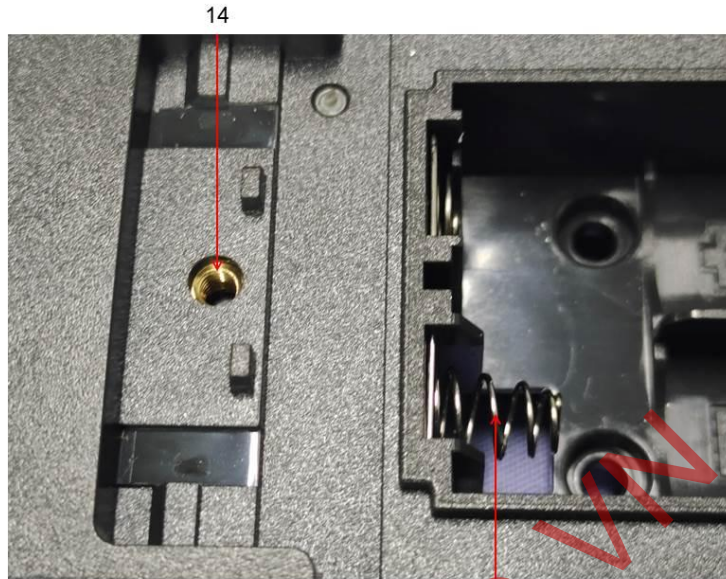
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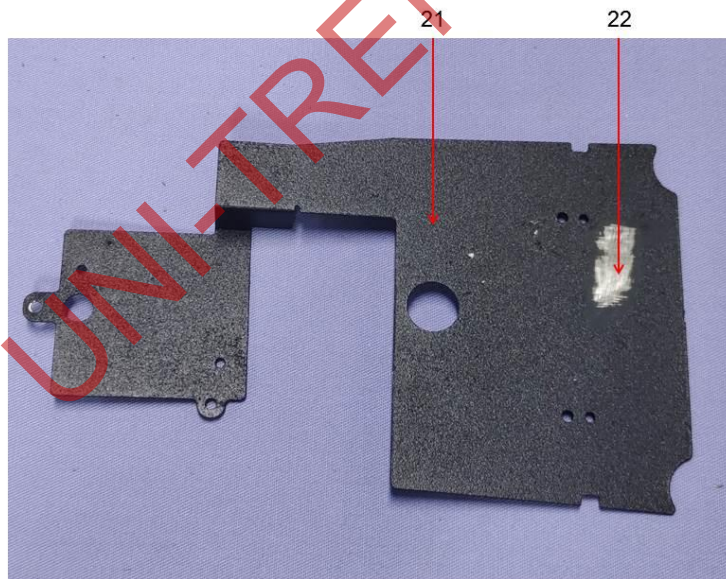
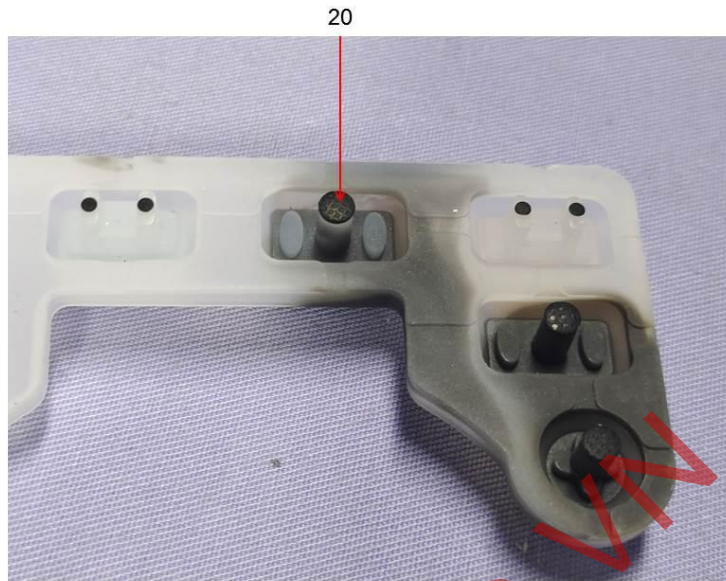
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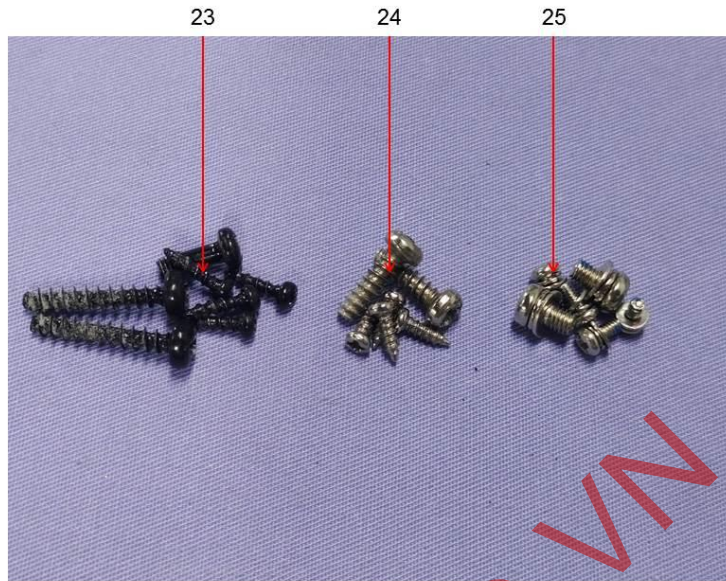
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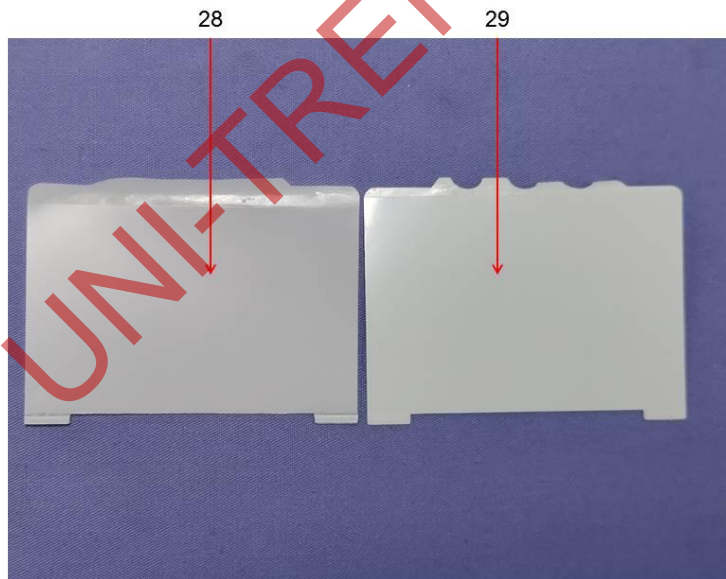
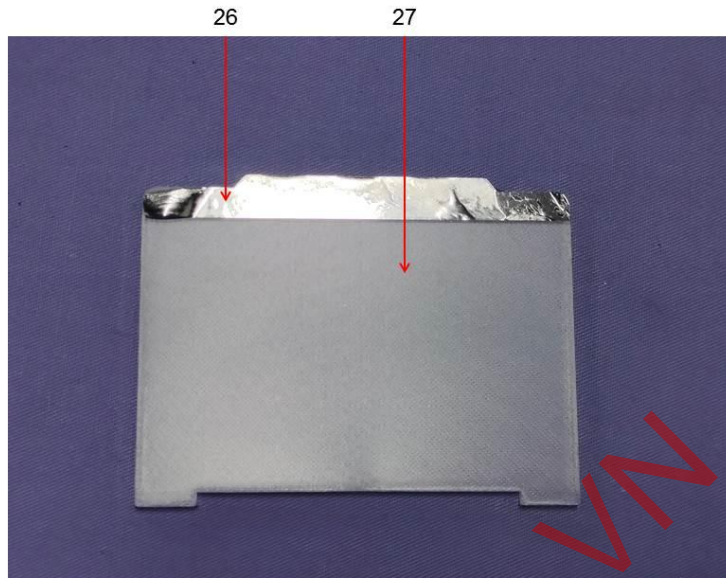
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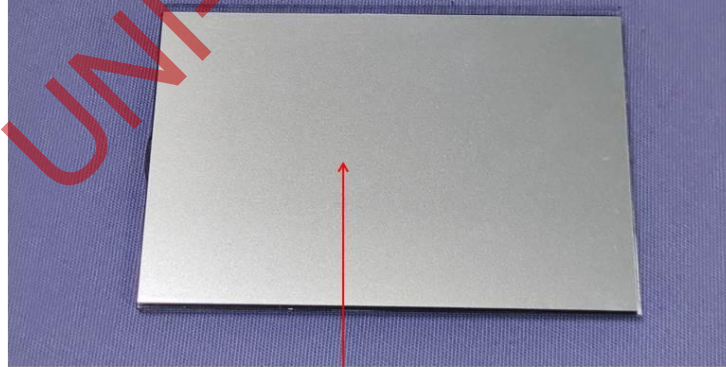
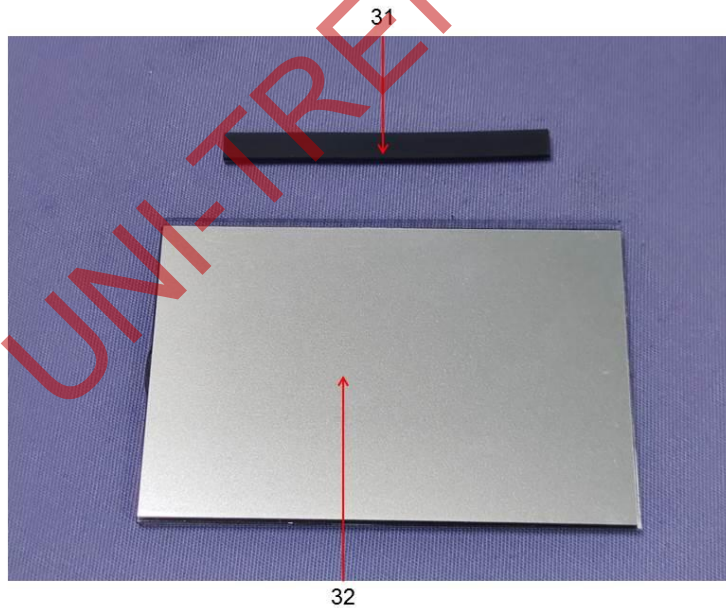
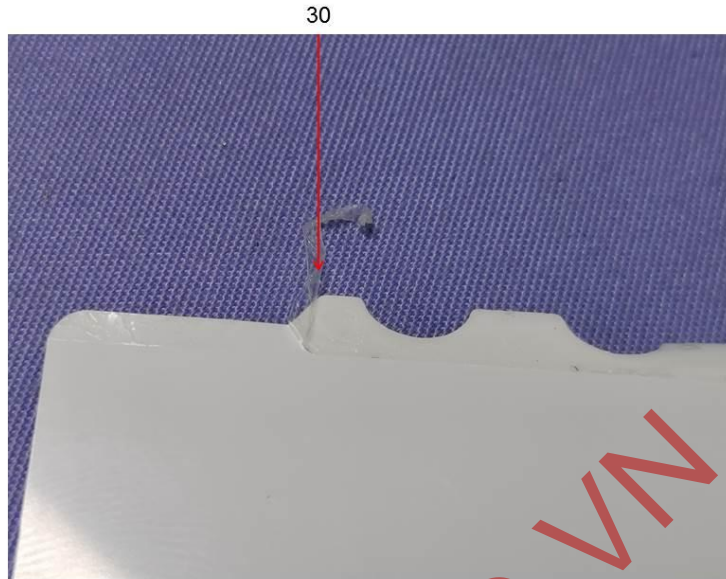
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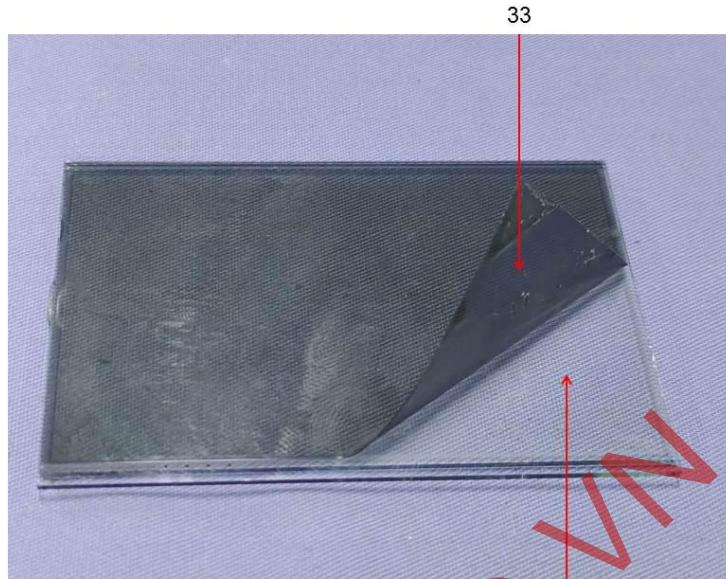
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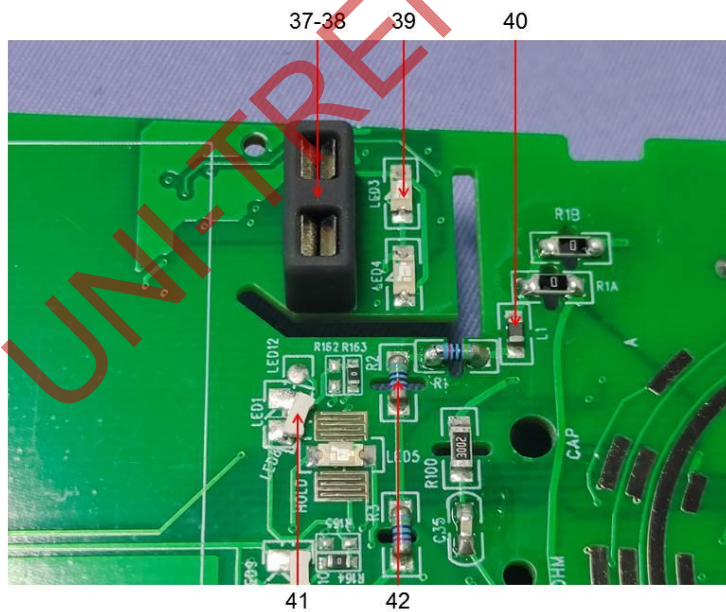
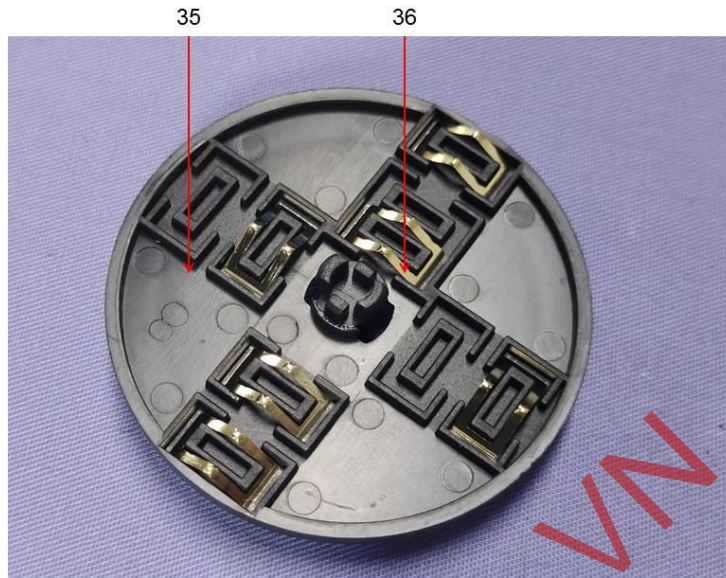
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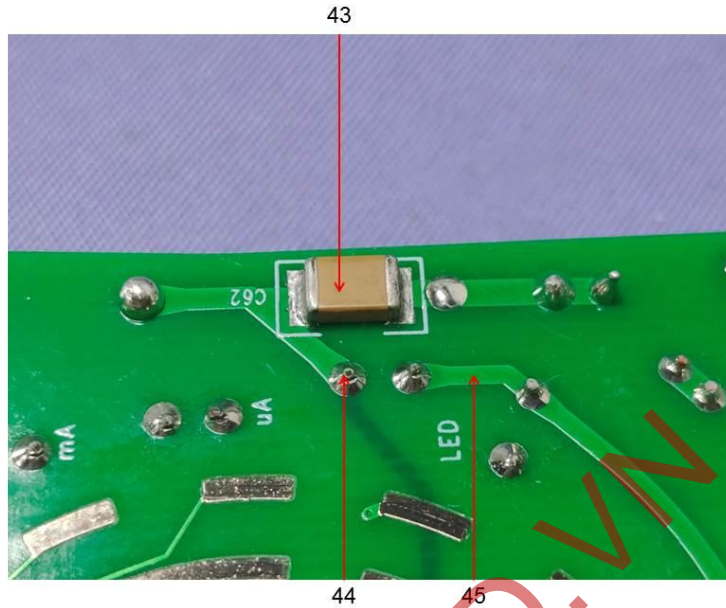
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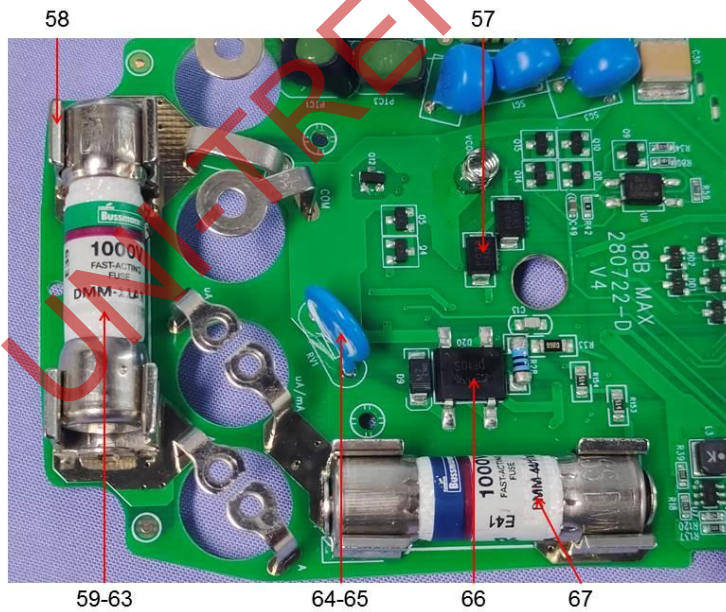
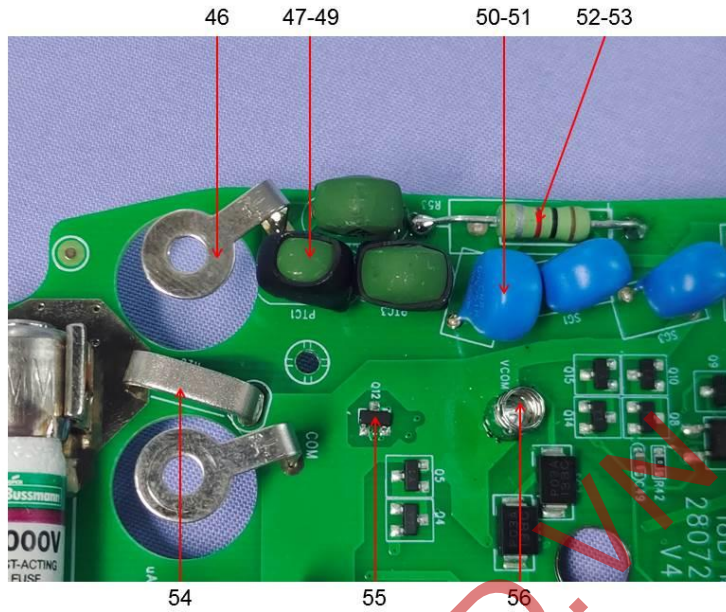
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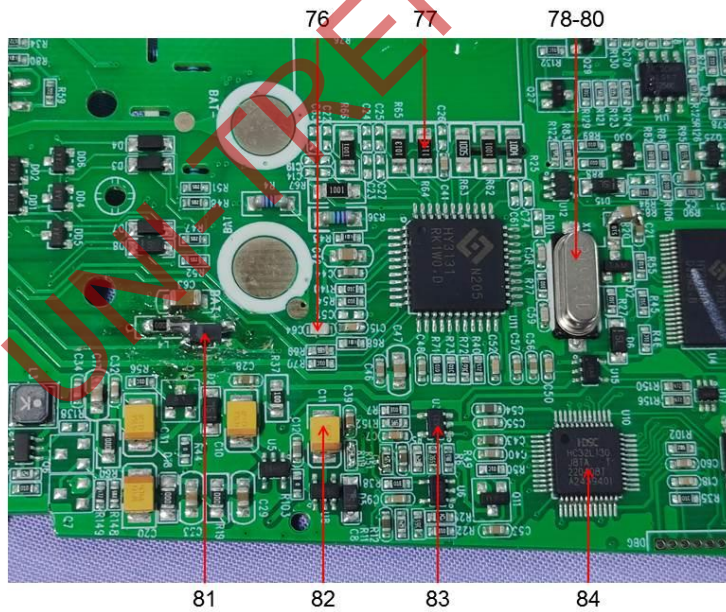
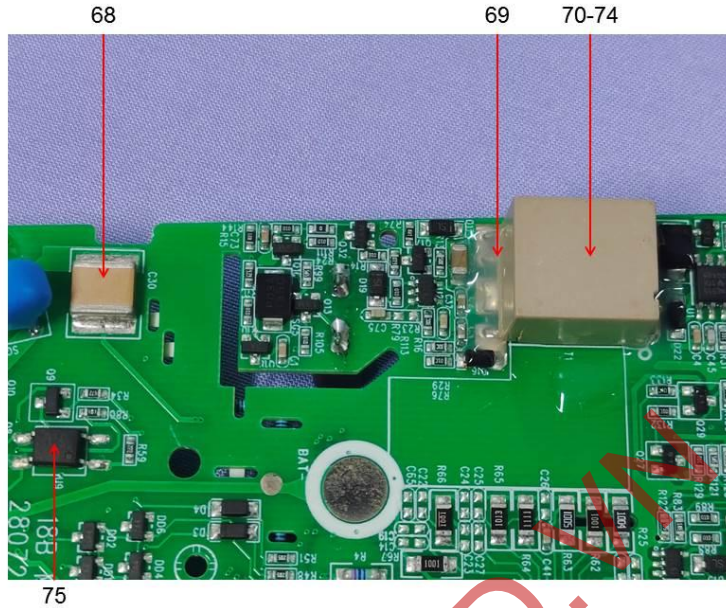
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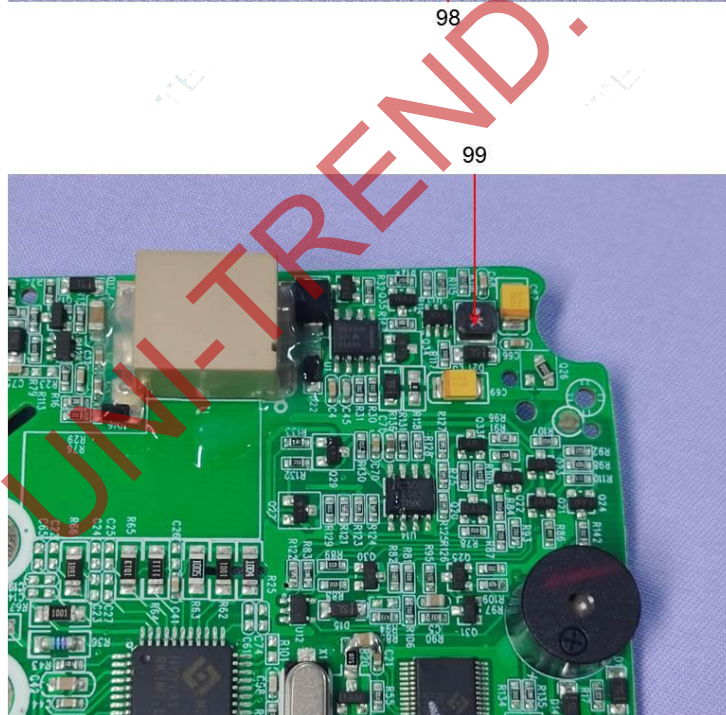
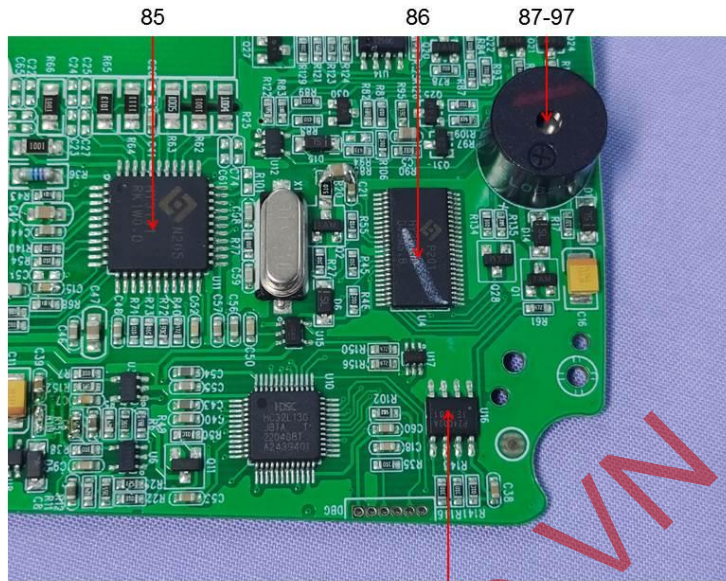
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\*\*\*End of Report\*\*\*

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