Test Report

Applicant:	Sharkoon Technologies GmbH
Address:	Grüninger Weg 48, 35415 Pohlheim, Germany
Manufacturer:	Sharkoon Technologies GmbH
Address:	Grüninger Weg 48, 35415 Pohlheim, Germany

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

Sample Name:	Switching Power Supply
Trade Mark:	Sharkoon
Sample Model:	REBEL P15 650, REBEL P15 750, REBEL P15 850, REBEL P15 1000, REBEL P18 750, REBEL P18 850, REBEL P18 1000, REBEL P20 Gen2 650, REBEL P20 Gen2 750, REBEL P20 Gen2 850, REBEL P20 Gen2 1000
Sample Received Date:	Jun. 09, 2025
Testing Period:	Jun. 09, 2025 to Jun. 16, 2025

Test Requested

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

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Remark: This test report replaces test report No. RKEYS250609053R01 released on Dec. 24, 2025 as the current valid report, the original test report is void.

Approved by:

Guangdong KEYS Testing Technology Co., Ltd. Johnny Chen KEYS

Johnny Chen/Technical Manager

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Guangdong KEYS Testing Technology Co., Ltd.
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Test Report

Summary of Test Results:

Test Standard		Conclusion
RoHS Directive 2011/65/EU and its subsequent amendments Directive (EU) 2015/863		
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 Results:

(1)XRF Test Result:

No.	XRF Result(mg/kg)					Chemical Test (mg/kg)	Conclusion
	Pb	Cd	Hg	Cr	Br		
1	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	--	--	Pass
7	BL	BL	BL	BL	--	--	Pass
8	BL	BL	BL	BL	BL	--	Pass
9	BL	BL	BL	BL	BL	--	Pass
10	BL	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	BL	--	Pass
18	BL	BL	BL	X	--	CrVI: Negative	Pass
19	BL	BL	BL	X	--	CrVI: Negative	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
24	BL	BL	BL	BL	BL	--	Pass
25	BL	BL	BL	BL	BL	--	Pass

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No.	XRF Result(mg/kg)					Chemical Test (mg/kg)	Conclusion
	Pb	Cd	Hg	Cr	Br		
26	BL	BL	BL	BL	--	--	Pass
27	BL	BL	BL	BL	--	--	Pass
28	BL	BL	BL	BL	BL	--	Pass
29	BL	BL	BL	BL	--	--	Pass
30	BL	BL	BL	BL	BL	--	Pass
31	BL	BL	BL	BL	BL	--	Pass
32	BL	BL	BL	BL	--	--	Pass
33	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	BL	--	Pass
38	BL	BL	BL	BL	--	--	Pass
39	BL	BL	BL	BL	BL	--	Pass
40	BL	BL	BL	BL	BL	--	Pass
41	BL	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	--	--	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
51	BL	BL	BL	BL	BL	--	Pass
52	BL	BL	BL	BL	BL	--	Pass

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No.	XRF Result(mg/kg)					Chemical Test (mg/kg)	Conclusion
	Pb	Cd	Hg	Cr	Br		
53	BL	BL	BL	BL	BL	--	Pass
54	BL	BL	BL	BL	BL	--	Pass
55	BL	BL	BL	BL	--	--	Pass
56	BL	BL	BL	BL	X	PBBs/PBDEs:N.D.	Pass
57	BL	BL	BL	BL	X	PBBs/PBDEs:N.D.	Pass
58	BL	BL	BL	BL	X	PBBs/PBDEs:N.D.	Pass
59	BL	BL	BL	BL	--	--	Pass
60	BL	BL	BL	BL	--	--	Pass
61	BL	BL	BL	BL	BL	--	Pass
62	BL	BL	BL	BL	BL	--	Pass
63	BL	BL	BL	BL	BL	--	Pass
64	BL	BL	BL	BL	BL	--	Pass
65	BL	BL	BL	BL	BL	--	Pass
66	BL	BL	BL	BL	BL	--	Pass
67	BL	BL	BL	BL	--	--	Pass
68	BL	BL	BL	BL	--	--	Pass
69	BL	BL	BL	BL	--	--	Pass
70	BL	BL	BL	BL	BL	--	Pass
71	BL	BL	BL	BL	--	--	Pass
72	BL	BL	BL	BL	BL	--	Pass
73	BL	BL	BL	BL	--	--	Pass
74	BL	BL	BL	BL	BL	--	Pass
75	BL	BL	BL	BL	BL	--	Pass
76	BL	BL	BL	BL	BL	--	Pass
77	BL	BL	BL	BL	BL	--	Pass
78	BL	BL	BL	BL	BL	--	Pass
79	BL	BL	BL	BL	BL	--	Pass

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No.	XRF Result(mg/kg)					Chemical Test (mg/kg)	Conclusion
	Pb	Cd	Hg	Cr	Br		
80	BL	BL	BL	BL	BL	--	Pass
81	BL	BL	BL	BL	BL	--	Pass
82	BL	BL	BL	BL	BL	--	Pass
83	BL	BL	BL	BL	BL	--	Pass
84	BL	BL	BL	BL	BL	--	Pass
85	BL	BL	BL	BL	BL	--	Pass
86	BL	BL	BL	BL	BL	--	Pass
87	BL	BL	BL	BL	BL	--	Pass
88	BL	BL	BL	BL	BL	--	Pass
89	BL	BL	BL	BL	BL	--	Pass
90	BL	BL	BL	BL	BL	--	Pass
91	BL	BL	BL	BL	BL	--	Pass
92	BL	BL	BL	BL	BL	--	Pass
93	BL	BL	BL	BL	BL	--	Pass
94	BL	BL	BL	BL	BL	--	Pass
95	BL	BL	BL	BL	BL	--	Pass
96	BL	BL	BL	BL	--	--	Pass
97	BL	BL	BL	BL	--	--	Pass
98	BL	BL	BL	BL	--	--	Pass
99	BL	BL	BL	BL	--	--	Pass
100	BL	BL	BL	BL	X	PBBs/PBDEs:N.D.	Pass
101	BL	BL	BL	BL	--	--	Pass

Remark: 1.It is the result on total Br while test item on restricted substances in PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr(VI).

2.Screening test by XRF spectroscopy. XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1: 2013Annex A.

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Element	Polymer Material	Metallic Material	Composite Material
Pb	BL≤700-3σ≤X＜1300+3σ≤OL	BL≤700-3σ≤X＜1300+3σ≤OL	BL≤500-3σ≤X＜1500+3σ≤OL
Cd	BL≤70-3σ≤X＜130+3σ≤OL	BL≤70-3σ≤X＜130+3σ≤OL	LOD＜X＜150+3σ≤OL
Hg	BL≤700-3σ≤X＜1300+3σ≤OL	BL≤700-3σ≤X＜1300+3σ≤OL	BL≤500-3σ≤X＜1500+3σ≤OL
Cr	BL≤700-3σ＜X	BL≤700-3σ＜X	BL≤500-3σ＜X
Br	BL≤300-3σ＜X	--	BL≤250-3σ＜X

XRF Detection Limits in mg/kg for Regulated Elements in Various Material

Element	Polymer Material	Metallic Material	Composite Material
Pb	10	50	50
Cd	10	50	50
Hg	10	50	50
Cr	10	50	50
Br	10	50	50

Note: 1.BL = Under the XRF screening limit

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

3.X =The symbol“X”marks the region where further investigation in necessary

4.3σ=The reproducibility of analytical instruments

5.LOD=Detection limit

(2)Wet Chemical Test

Test Item(s)	Test Method/ Test Equipment	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013, ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013, ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017, ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015, UV-Vis	μg/cm^2	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017, UV-Vis	mg/kg	1000	8

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PBBs (Next form)	IEC 62321-6:2015, GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015, GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017, GC-MS	mg/kg	1000	30

PBBs		**PBDEs**	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

Note:

1. mg/kg= ppm=0.0001%
2. N.D.= Not Detected(<MDL)
3. MDL = Method Detection Limit
4. -- = No Testing
5. When Cr (VI) in a sample is detected below the 0.10 μg/cm^2 LOQ (limit of quantification), the sample is considered to be negative for Cr (VI). Since Cr (VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 μg/cm^2 and 0.13 μg/cm^2 has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr (VI). When Cr (VI) is detected above 0.13 μg/cm^2, the sample is considered to be positive for the presence of Cr (VI) in the coating layer. 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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(3)Phthalate Test Result:

Test No.	Test Item(s)				Conclusion
	Dibutyl Phthalate (DBP)	Butyl benzyl phthalate (BBP)	Di-(2-ethylhexyl) Phthalate (DEHP)	Diisobutyl phthalate (DIBP)	
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
5	N.D.	N.D.	N.D.	N.D.	Pass
8	N.D.	N.D.	N.D.	N.D.	Pass
9	N.D.	N.D.	N.D.	N.D.	Pass
10	N.D.	N.D.	N.D.	N.D.	Pass
11	N.D.	N.D.	N.D.	N.D.	Pass
12	N.D.	N.D.	N.D.	N.D.	Pass
13	N.D.	N.D.	N.D.	N.D.	Pass
17	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
25	N.D.	N.D.	N.D.	N.D.	Pass
28	N.D.	N.D.	N.D.	N.D.	Pass
30	N.D.	N.D.	N.D.	N.D.	Pass
31	N.D.	N.D.	N.D.	N.D.	Pass
34	N.D.	N.D.	N.D.	N.D.	Pass
35	N.D.	N.D.	N.D.	N.D.	Pass
36	N.D.	N.D.	N.D.	N.D.	Pass
37	N.D.	N.D.	N.D.	N.D.	Pass
39	N.D.	N.D.	N.D.	N.D.	Pass
40	N.D.	N.D.	N.D.	N.D.	Pass
41	N.D.	N.D.	N.D.	N.D.	Pass
44	N.D.	N.D.	N.D.	N.D.	Pass
47	N.D.	N.D.	N.D.	N.D.	Pass

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Test No.	Test Item(s)				Conclusion
	Dibutyl Phthalate (DBP)	Butyl benzyl phthalate (BBP)	Di-(2-ethylhexyl) Phthalate (DEHP)	Diisobutyl phthalate (DIBP)	
48	N.D.	N.D.	N.D.	N.D.	Pass
50	N.D.	N.D.	N.D.	N.D.	Pass
51	N.D.	N.D.	N.D.	N.D.	Pass
52	N.D.	N.D.	N.D.	N.D.	Pass
53	N.D.	N.D.	N.D.	N.D.	Pass
54	N.D.	N.D.	N.D.	N.D.	Pass
56	N.D.	N.D.	N.D.	N.D.	Pass
57	N.D.	N.D.	N.D.	N.D.	Pass
58	N.D.	N.D.	N.D.	N.D.	Pass
61	N.D.	N.D.	N.D.	N.D.	Pass
62	N.D.	N.D.	N.D.	N.D.	Pass
63	N.D.	N.D.	N.D.	N.D.	Pass
64	N.D.	N.D.	N.D.	N.D.	Pass
65	N.D.	N.D.	N.D.	N.D.	Pass
66	N.D.	N.D.	N.D.	N.D.	Pass
70	N.D.	N.D.	N.D.	N.D.	Pass
72	N.D.	N.D.	N.D.	N.D.	Pass
74	N.D.	N.D.	N.D.	N.D.	Pass
75	N.D.	N.D.	N.D.	N.D.	Pass
76	N.D.	N.D.	N.D.	N.D.	Pass
77	N.D.	N.D.	N.D.	N.D.	Pass
78	N.D.	N.D.	N.D.	N.D.	Pass
79	N.D.	N.D.	N.D.	N.D.	Pass
80	N.D.	N.D.	N.D.	N.D.	Pass
81	N.D.	N.D.	N.D.	N.D.	Pass
82	N.D.	N.D.	N.D.	N.D.	Pass

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Test No.	Test Item(s)				Conclusion
	Dibutyl Phthalate (DBP)	Butyl benzyl phthalate (BBP)	Di-(2-ethylhexyl) Phthalate (DEHP)	Diisobutyl phthalate (DIBP)	
83	N.D.	N.D.	N.D.	N.D.	Pass
84	N.D.	N.D.	N.D.	N.D.	Pass
85	N.D.	N.D.	N.D.	N.D.	Pass
86	N.D.	N.D.	N.D.	N.D.	Pass
87	N.D.	N.D.	N.D.	N.D.	Pass
88	N.D.	N.D.	N.D.	N.D.	Pass
89	N.D.	N.D.	N.D.	N.D.	Pass
90	N.D.	N.D.	N.D.	N.D.	Pass
91	N.D.	N.D.	N.D.	N.D.	Pass
92	N.D.	N.D.	N.D.	N.D.	Pass
93	N.D.	N.D.	N.D.	N.D.	Pass
94	N.D.	N.D.	N.D.	N.D.	Pass
95	N.D.	N.D.	N.D.	N.D.	Pass
100	N.D.	N.D.	N.D.	N.D.	Pass

Note: 1. mg/kg= ppm=0.0001%

2. N.D.= Not Detected(<MDL)

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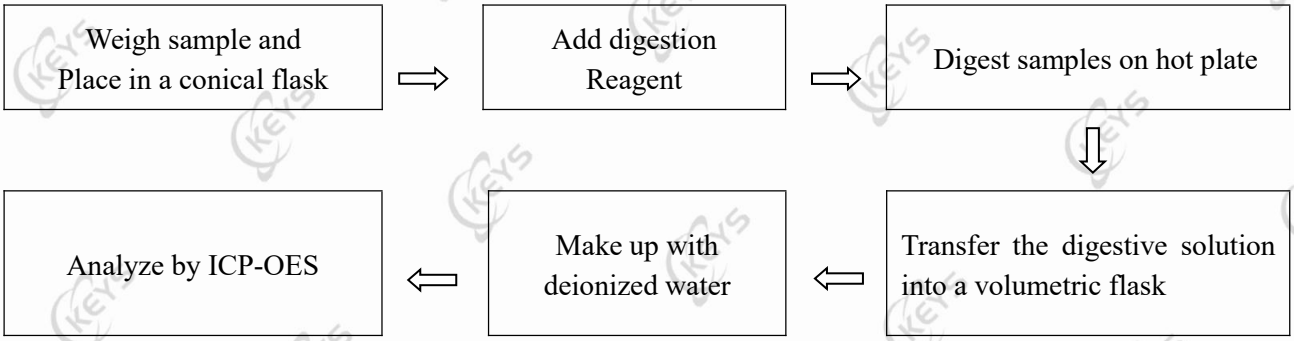
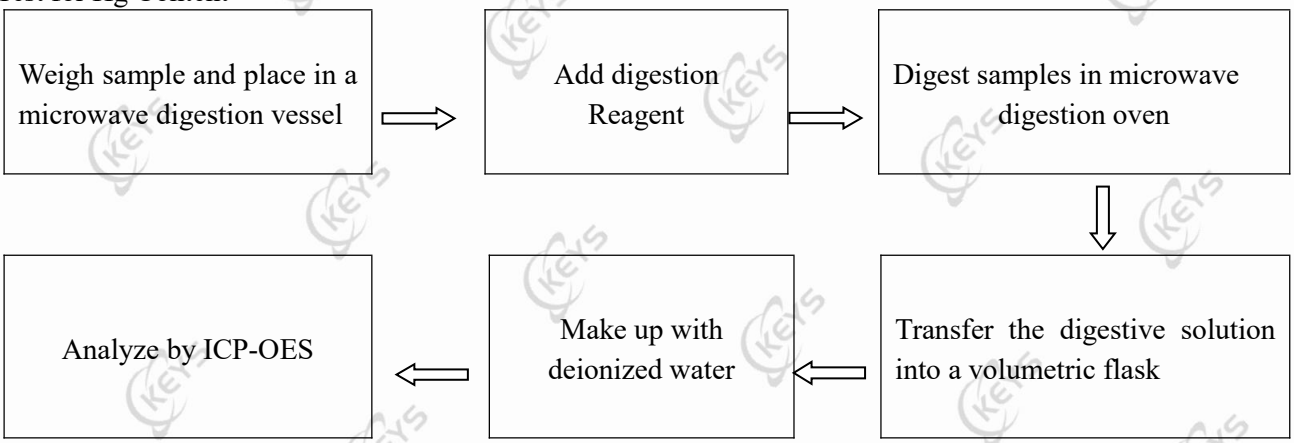
Test Process:

1. Test for Cd/Pb Content



2. Test for Hg Content



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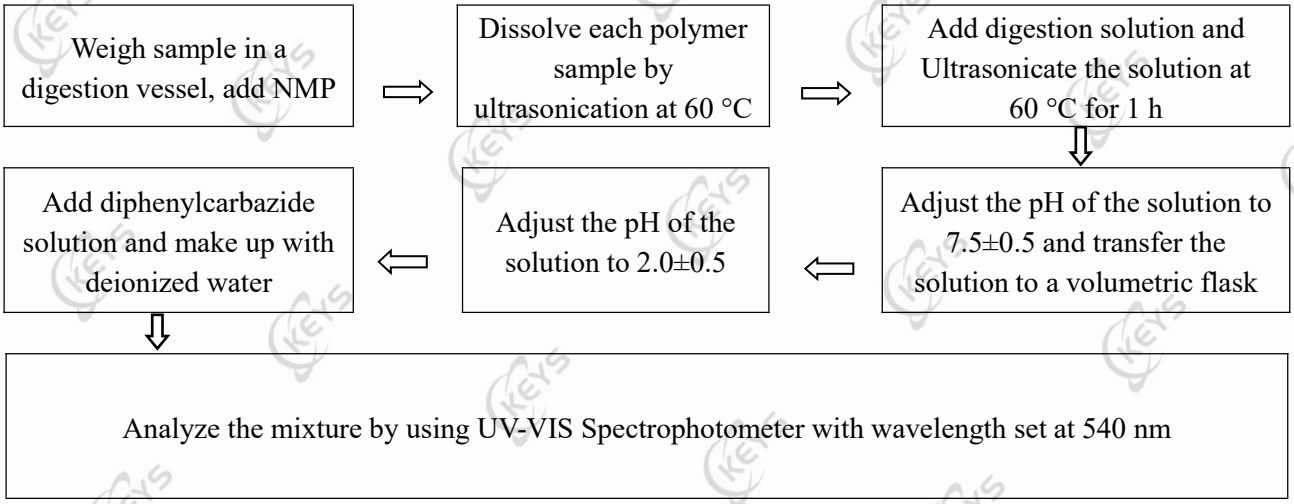
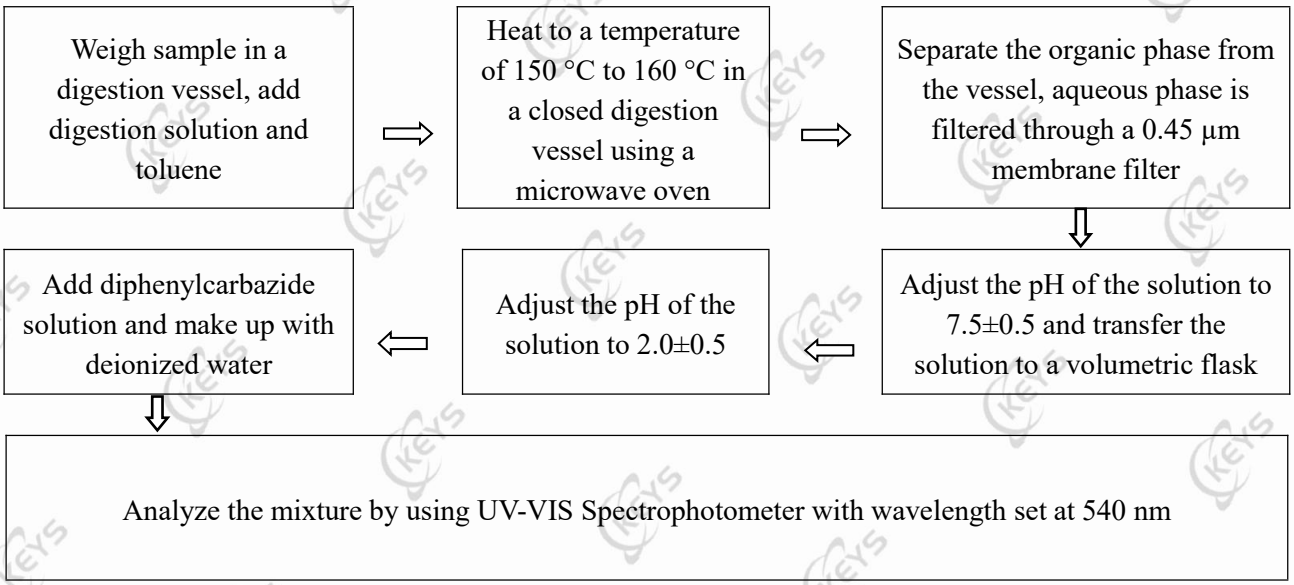
3. Test for Chromium (VI) Content

Soluble polymers：



Insoluble/unknown polymers and electronics without Sb



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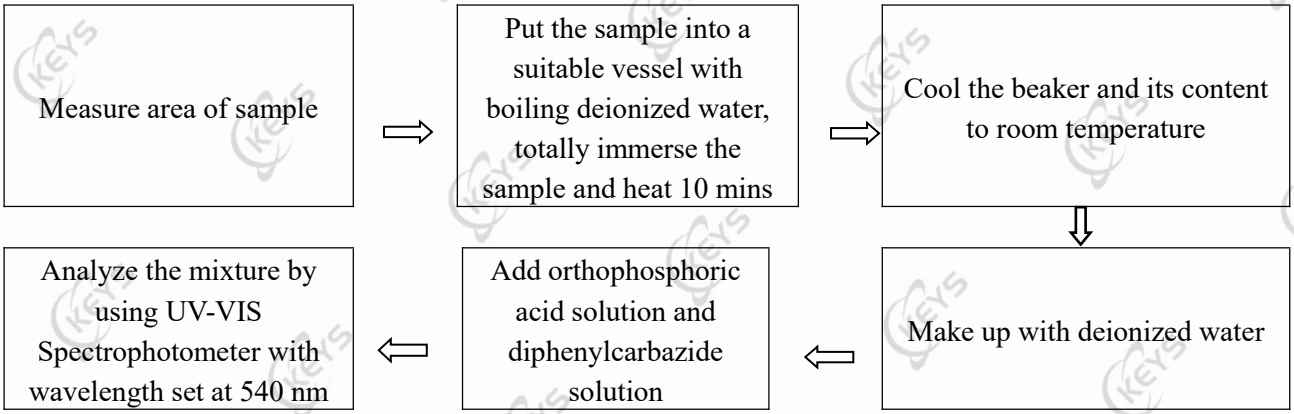
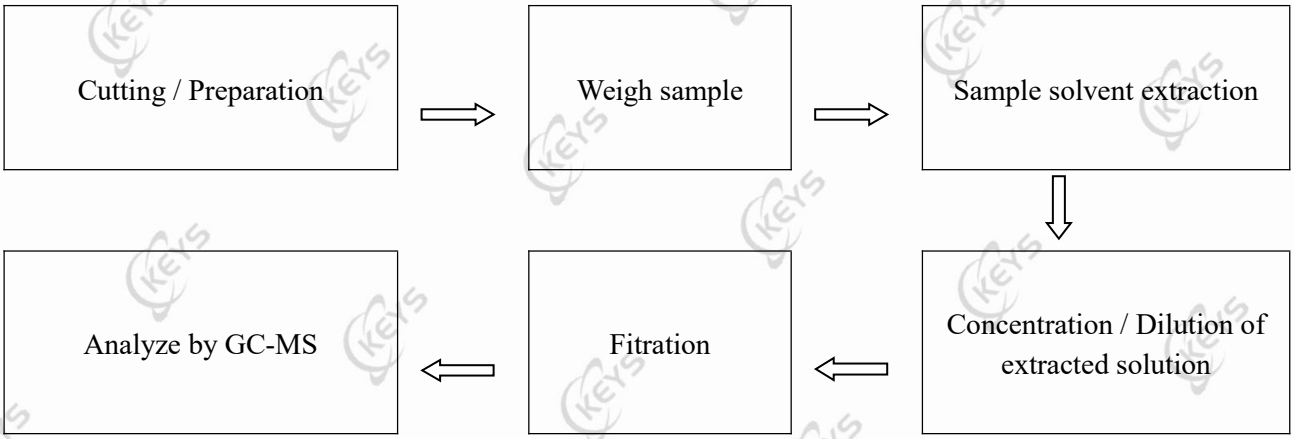
Metal material



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



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Sample Description:

No.	Description
1	silvery metal shell with black coating
2	White silicone grease
3	Transparent plastic sheet
4	Black plastic shell
5	Black printing white plastic sticker
6	Silvery metal shell
7	Copper-colored metal coil
8	Black plastic frame
9	Black plastic switch
10	Black plastic shell
11	Black plastic sleeving
12	Black plastic pipe
13	White plastic terminal
14	Silvery metal connector
15	Silvery metal sheet
16	Black ceramic
17	Grey capacitor
18	Black metal screw
19	Silvery metal bolt
20	Silvery metal ring
21	Silvery metal parts
22	Silvery metal shell
23	Black plastic wire skin
24	Black plastic wire skin
25	Black plastic terminal
26	Silvery metal bar
27	Golden metal contact pin

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No.	Description
28	Black plastic frame
29	Red printing silvery metal shell capacitor
30	Grey printing black plastic casing electrolytic capacitor
31	Grey printing blue plastic casing electrolytic capacitor
32	Copper colored enamelled wire
33	Black ceramic
34	Black fabric with viscose
35	Yellow dry glue
36	Black relay
37	Multi-color printing pink resistor
38	Silvery metal fastener
39	Black triode
40	Grey capacitor
41	Black plastic film
42	Black ceramic frame
43	Copper-colored metal coil
44	Grey printing brown plastic casing electrolytic capacitor
45	Black ceramic base
46	Copper colored enamelled wire
47	Blue capacitor
48	Brown capacitor
49	White fuses
50	Yellow capacitor
51	Black IC
52	Black triode
53	Black resistor
54	Black diode
55	Silvery metal pin

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No.	Description
56	Green PCB
57	Green/yellow PCB
58	Green PCB
59	Silvery metal wire core
60	Copper metal wire core
61	Red plastic wire skin
62	Black plastic wire skin
63	Brown plastic wire skin
64	Blue plastic wire skin
65	Yellow/green plastic wire skin
66	Dark brown plastic wire skin
67	Silvery metal solder
68	Silvery metal solder
69	Silvery metal solder
70	Black plastic terminal
71	Yellow ceramic
72	Black printing yellow plastic casing electrolytic capacitor
73	Silvery metal shell resistor
74	Black triode
75	White plastic base
76	Black relay
77	Black dry glue
78	Black patch bridge
79	Yellow capacitor
80	Green resistance
81	Black plastic fasteners
82	Gray plastic sleeving
83	Blue plastic sleeving

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No.	Description
84	Yellow plastic sleeving
85	Green plastic sleeving
86	Brown plastic sleeving
87	Orange plastic sleeving
88	Black plastic sleeving
89	Red plastic sleeving
90	White plastic terminal
91	Red plastic wire skin
92	Black plastic wire skin
93	Black plastic wire skin
94	Black plastic wire skin
95	Black plastic sleeving
96	Copper colored enamelled wire
97	Blue enameled wire
98	Yellow enameled wire
99	Green ceramic
100	Green PCB
101	Silvery metal solder

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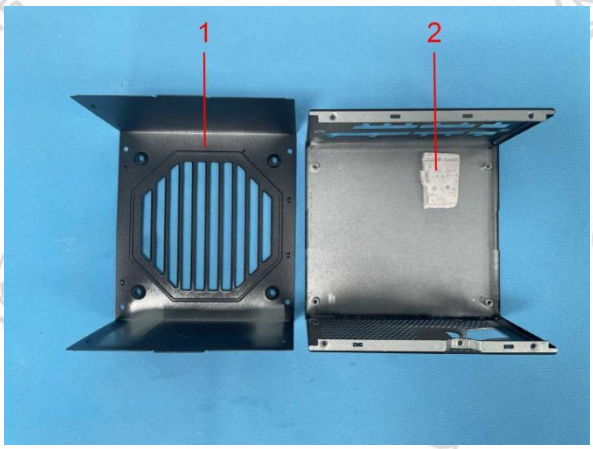
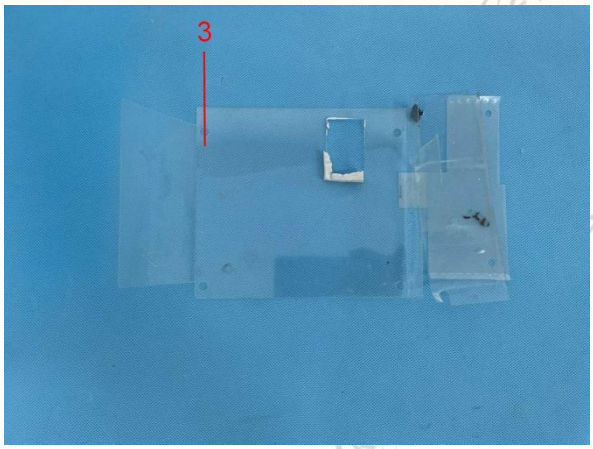
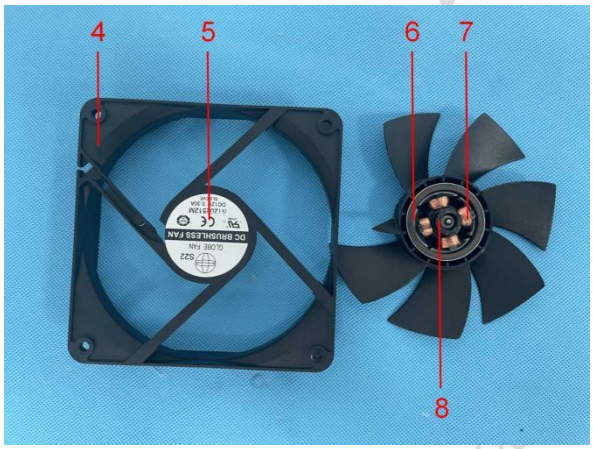
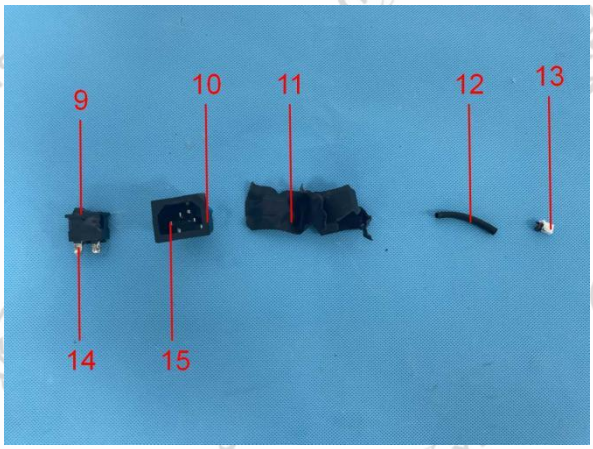
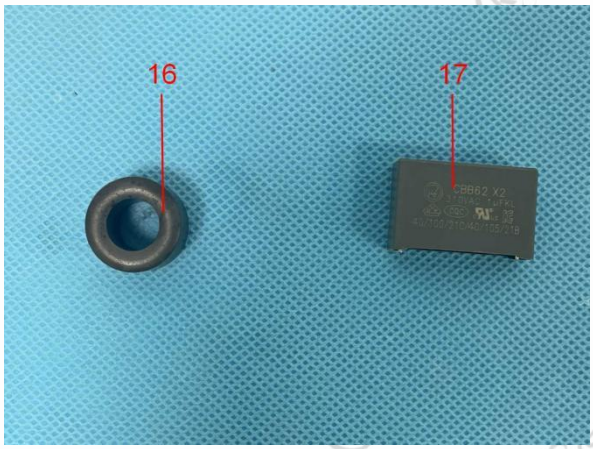
Photograph(s) of Sample：











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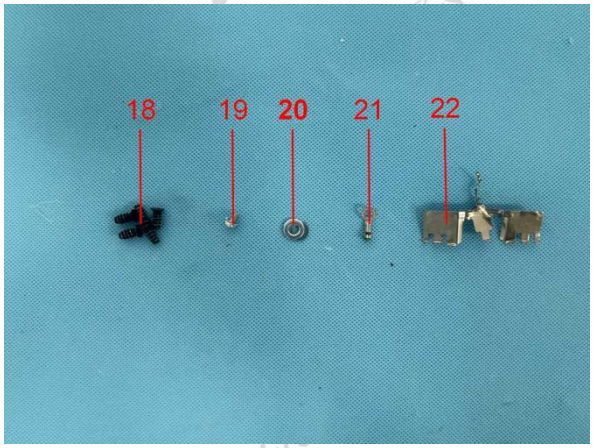

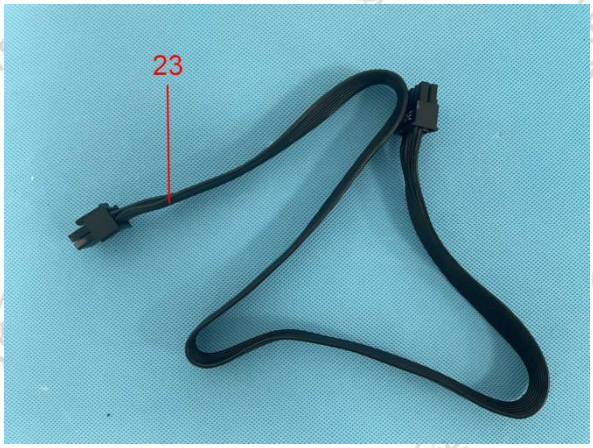

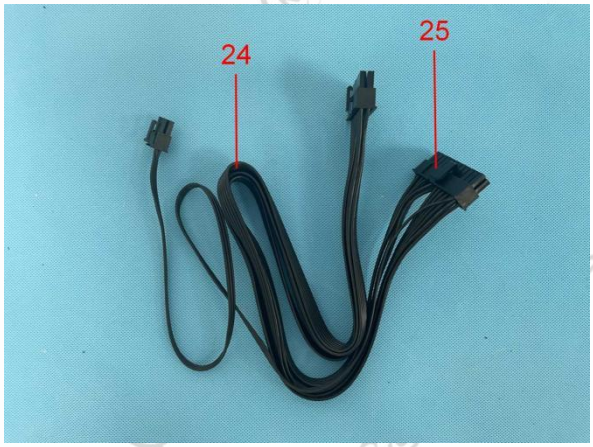

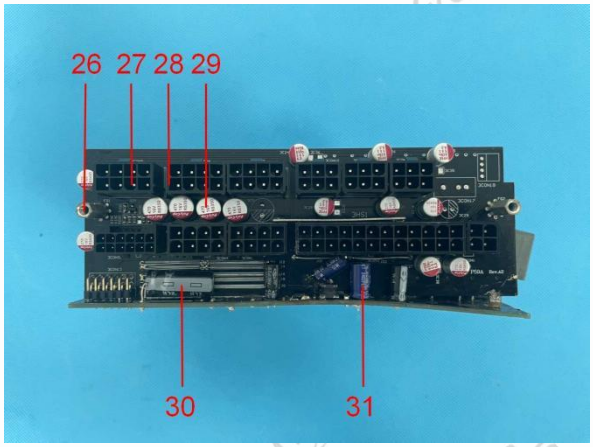

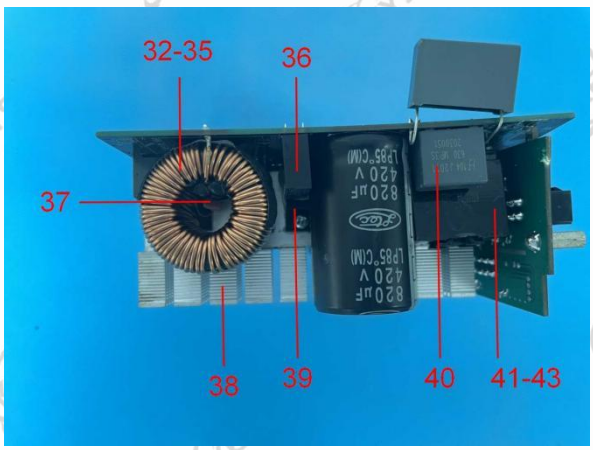

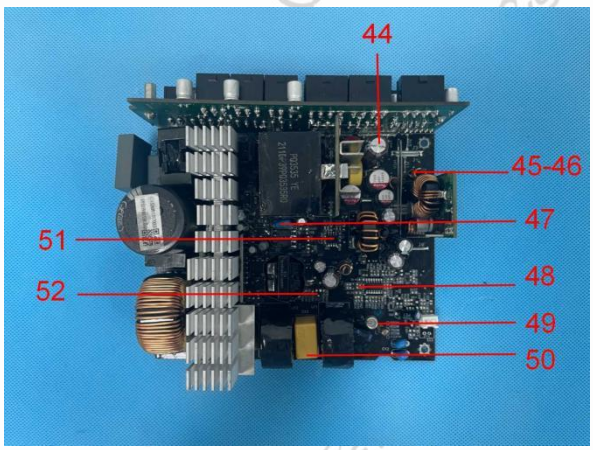

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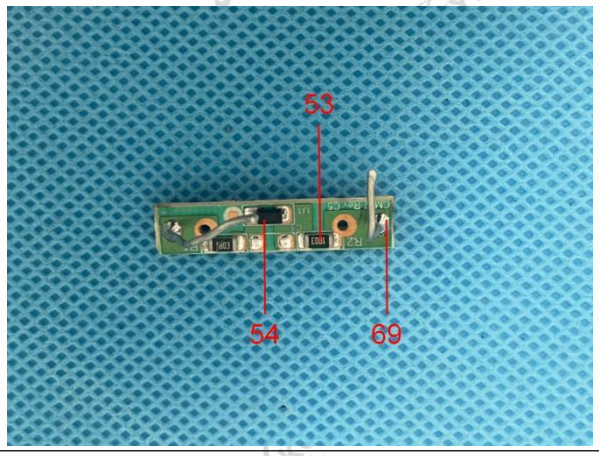

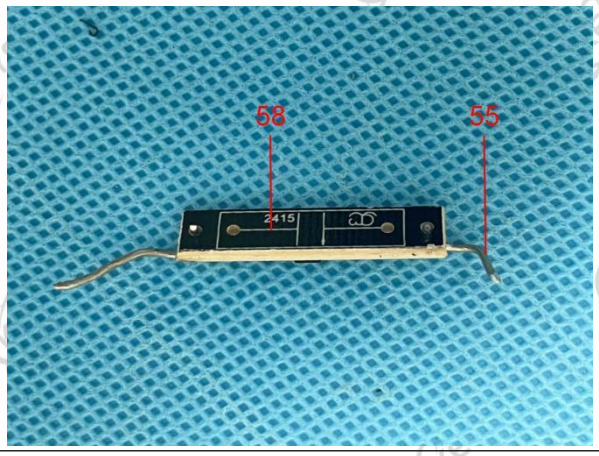

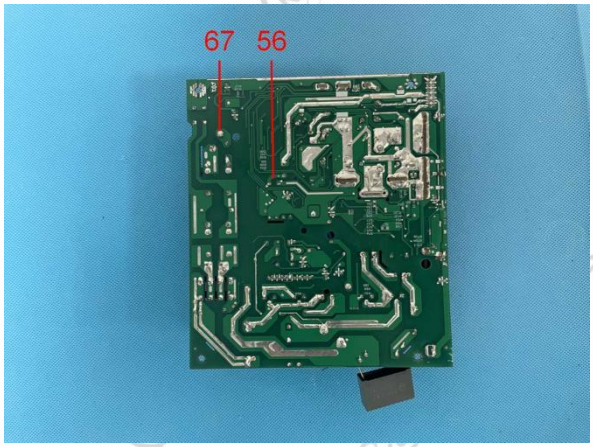

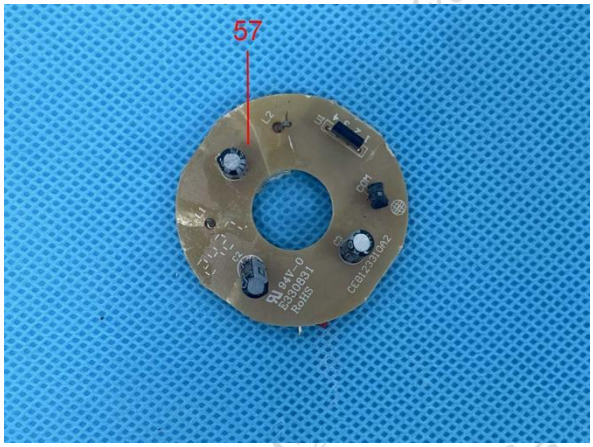

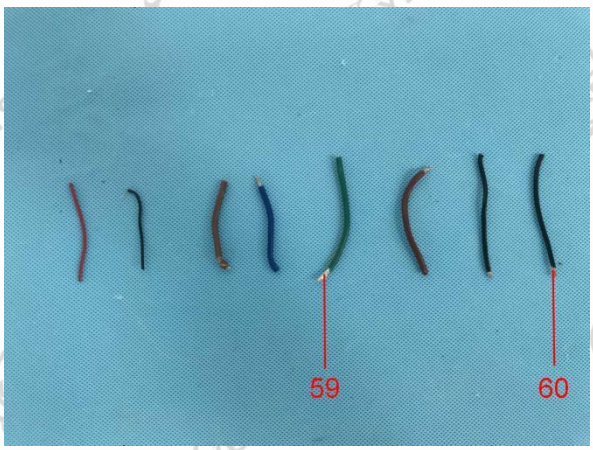

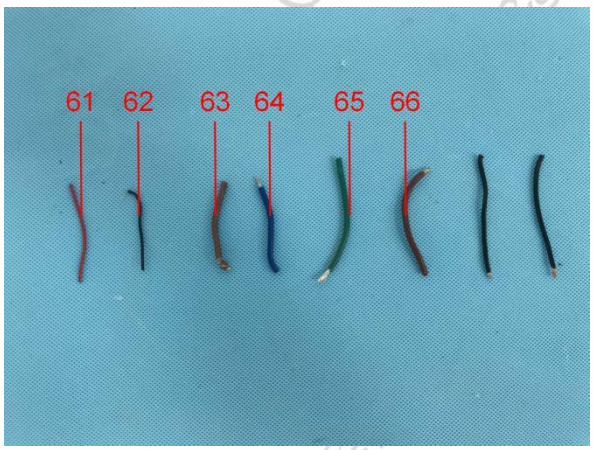

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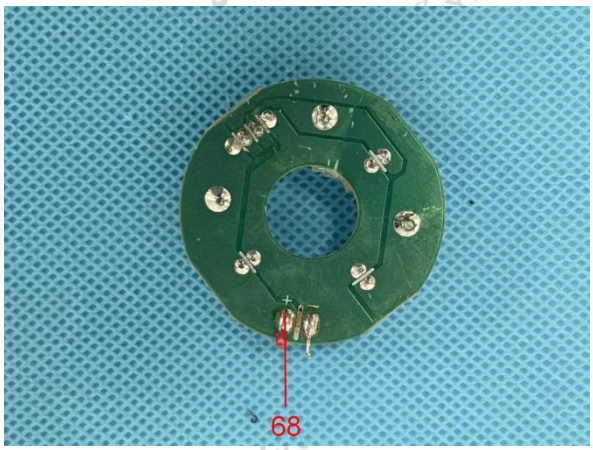

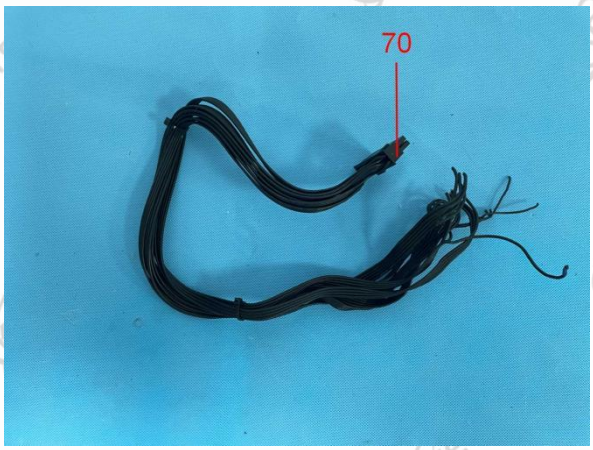

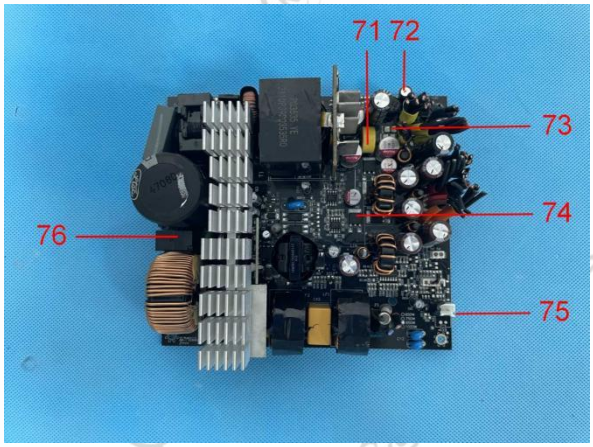

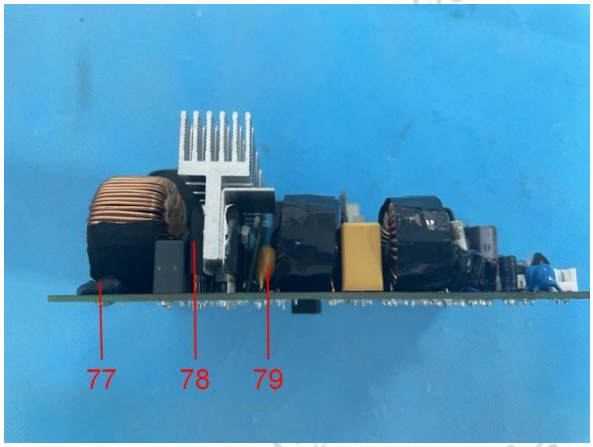

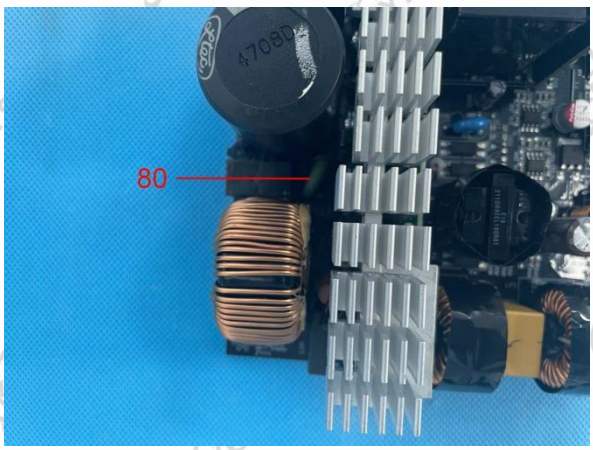

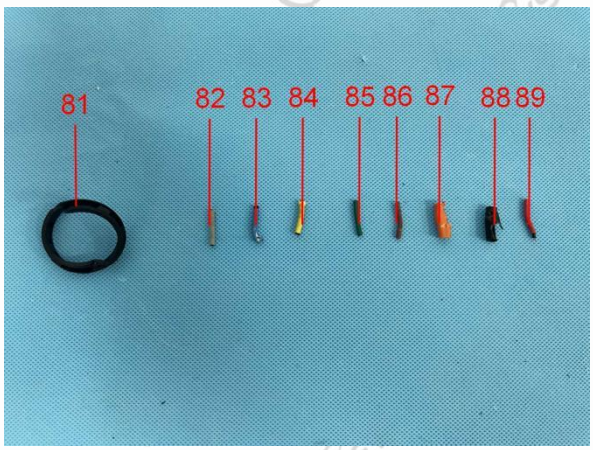

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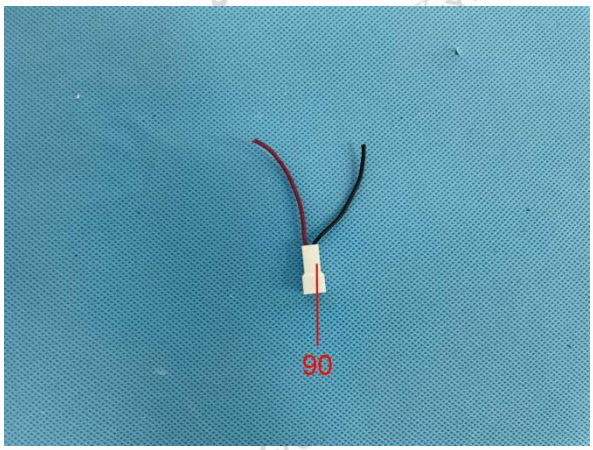

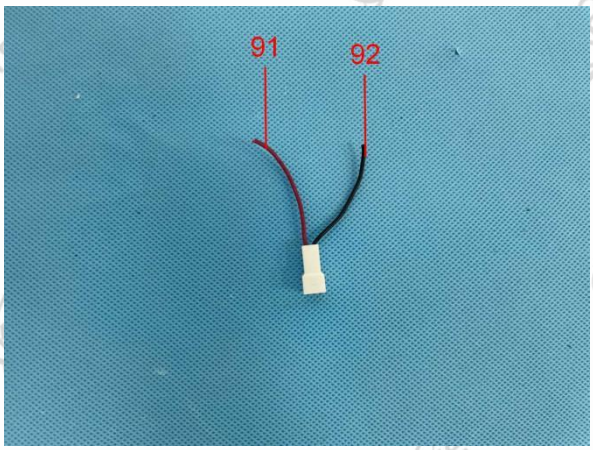

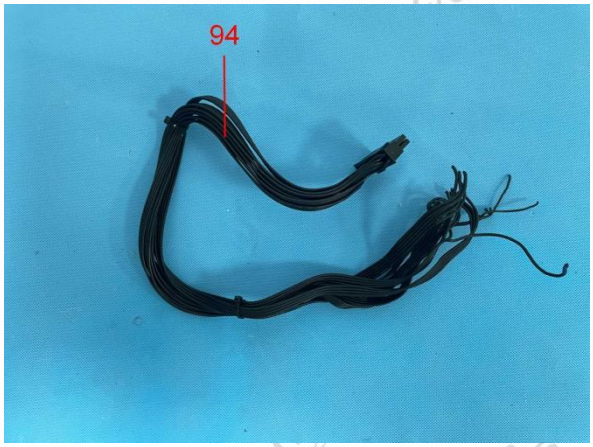

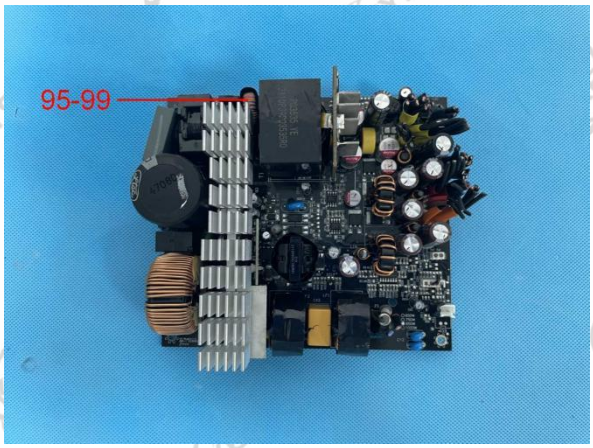

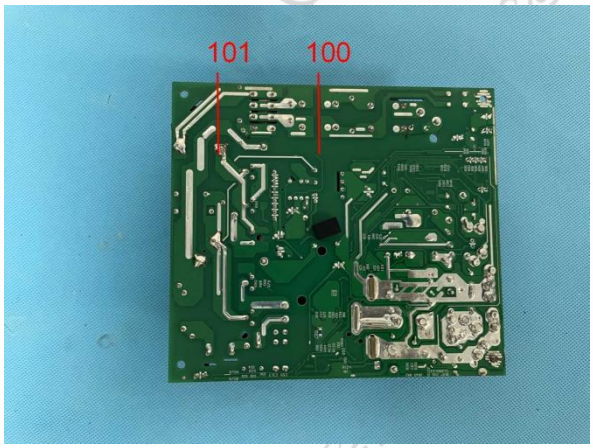

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