

Applicant : GUANGDONG SOHOO TECHNOLOGY CO.,LTD
Address : No.5, Zheng Wei Road DongKeng Town, DongGuan,GuangDong,China

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

Product Name : POWER SUPPLY
Model No. : Please refer to next page.
Manufacturer : GUANGDONG SOHOO TECHNOLOGY CO.,LTD
Address : No.5, Zheng Wei Road DongKeng Town, DongGuan,GuangDong,China

Date of Sample Received : Jul. 16, 2019
Test period : Jul. 16, 2019 - Aug. 22, 2019

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.

Conclusion

Pass

Test method : Please refer to next page.

Test result : Please refer to next page.

Tested by:*George Zhang*

George Zhang
(Senior Engineer)

Reviewed by:*Tammy He*

Tammy He
(Supervisor)

Approved by:*Caby Yang*

Caby Yang
(Technical director)

Date:

Oct. 22, 2019



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Dongguan NTEK Testing Technology Co., Ltd.

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http://www.dgntek.org.cn

Model list provided by client.

Model No.:

GM-300, GM-500, GM-500G, GM-600, GM-600G, GM-700, GM-700G, GM-800, GM-800G, GM-1050,
GM-1050G, GM-1350, GM-1650, GM-1800, GM-2000, GM-2400

GP-400, GP-400A, GP-450, GP-500, GP-550, GP-650, GP-500G, GP-750, GP-850

GE-450, GE-500, GE-600, GE-700

VP-350, VP-350-RGB, VP-450, VP-450-RGB, VP-500, VP-500-RGB, VP-500-RGB(MODULAR),

VP-600, VP-600-RGB, VP-600-RGB(MODULAR), VP-700, VP-700-RGB, VP-700-RGB(MODULAR),

VP-800, VP-800-RGB, VP-800-RGB(MODULAR)

RGB-500, RGB-550, RGB-600, RGB-650, RGB-700, RGB-750, RGB-800, RGB-850, RGB-1050

RGB-750 PRO, RGB-850 PRO, RGB-1050 PRO, RGB-1300

GT-230, GT-230G, GT-250, GT-250G, GT-275, GT-275G, GT-300, GT-300G

GT-350, GT-400, GT-450, GT-500, GT-600, GT-700

GS-230, GS-230G, GS-250, GS-250G, GS-275, GS-275G, GS-300, GS-300G, GS-450, GS-450G,

GS-500, GS-500G, GS-600, GS-700,

GX-550 (Modular), GX-650 (Modular), GX-750 (Modular), GX-850 (Modular)

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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	2mg/kg
	Cadmium (Cd)	IEC 62321-5: 2013	ICP-OES	2mg/kg
	Mercury (Hg)	IEC 62321-4: 2013	ICP-OES	2mg/kg
	Chromium (Cr (VI))▼	IEC 62321-7-2:2017	UV-Vis	2mg/kg
		IEC 62321-7-1: 2015		0.10µg/cm²
	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
Diisobutyl phthalate (DIBP)			30mg/kg

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1. Description of the test subject:

Sample No.	Location	Sample Description
1	Power component	LOGO green coating
2	Power component	LOGO black coating
3	Power component	LOGO silver metal substrate
4	Power component	White double-sided tape
5	Power component	Silver metal plate substrate
6	Power component	Metal mesh silver metal substrate
7	Power component	Black flat head screw
8	Power component	Black flat head screw
9	Power component	Green sticker
10	Power component	White sticker
11	Power component	Black sticker
12	Power component	Matte black coating
13	Power component	Shell silver metal substrate
14	Power component	Silver metal cylinder
15	Power component	Silver metal screw
16	Power component	Silver metal nut
17	Power component	Black with washer screw
18	Power component	Black plastic outer tooth belt
19	Power component	Transparent plastic sheet
20	Power component	Switch black plastic case
21	Power component	Switch black spring
22	Power component	Switch silver metal cylinder
23	Power component	Switch silver metal piece
24	Power component	Switch silver metal contacts
25	Power component	Switch pin

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Sample No.	Location	Sample Description
26	Power component	Switch pin solder
27	Power component	AC socket black plastic
28	Power component	AC socket silver pin
29	Power component	AC socket silver pin solder
30	Power component	AC socket black plastic jacket
31	Power component	AC socket white plastic jacket
32	Power component	AC socket copper core
33	Power component	AC socket yellow / green plastic jacket
34	Power component	AC socket silver core
35	Power component	AC socket silver metal round terminal
36	Power component - cooling fan	LOGO sticker
37	Power component - cooling fan	Black plastic frame
38	Power component - cooling fan	White plastic blade
39	Power component - cooling fan	Silver metal ring
40	Power component - cooling fan	Black soft magnet
41	Power component - cooling fan	Silver metal shaft
42	Power component - cooling fan	Copper metal tube
43	Power component - cooling fan	White plastic gasket
44	Power component - cooling fan	Silicon steel sheet
45	Power component - cooling fan	Black plastic winder
46	Power component - cooling fan	Red enameled wire
47	Power component - cooling fan	Yellow enameled wire
48	Power component - cooling fan	Fan PCB board
49	Power component - cooling fan	Fan PCB board solder
50	Power component - cooling fan	IC ontology

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Sample No.	Location	Sample Description
51	Power component - cooling fan	IC pin
52	Power component - cooling fan	Electrolytic capacitor black film
53	Power component - cooling fan	Electrolytic capacitor aluminum shell
54	Power component - cooling fan	Electrolytic capacitor rubber plug
55	Power component - cooling fan	Electrolytic capacitor electrolytic paper
56	Power component - cooling fan	Electrolytic capacitor silver foil
57	Power component - cooling fan	Electrolytic capacitor gray aluminum foil
58	Power component - cooling fan	Electrolytic capacitor aluminum
59	Power component - cooling fan	Electrolytic capacitor pin
60	Power component - cooling fan	Red plastic jacket
61	Power component - cooling fan	Silver core
62	Power component - cooling fan	Black plastic jacket
63	Power component - cooling fan	White plastic terminal
64	Power component - cooling fan	Terminal silver metal pin
65	Power component - PCB board	Silver metal heat sink aluminum
66	Power component - PCB board	Heat sink pin
67	Power component - PCB board	Silver with washer screw
68	Power component - PCB board	Screw white plastic mat
69	Power component - PCB board	Diode body (flat)
70	Power component - PCB board	Diode pin
71	Power component - PCB board	Gray soft pad
72	Power component - PCB board	Audion body (flat)
73	Power component - PCB board	Audion pin
74	Power component - PCB board	Pin magnetic ring
75	Power component - PCB board	Rectifier bridge body

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Sample No.	Location	Sample Description
76	Power component - PCB board	Rectifier bridge pin
77	Power component - PCB board	CBB capacitor brown plastic shell
78	Power component - PCB board	CBB capacitor silver film
79	Power component - PCB board	CBB capacitor pin
80	Power component - PCB board	White magnetic ring inductor copper color coil
81	Power component - PCB board	White magnetic ring inductor white magnetic ring
82	Power component - PCB board	White magnetic ring inductor yellow plastic sheet
83	Power component - PCB board	Y capacitor blue body
84	Power component - PCB board	Y capacitor pin
85	Power component - PCB board	Color ring resistance pink body
86	Power component - PCB board	Color ring resistance pin
87	Power component - PCB board	Thermistor black body
88	Power component - PCB board	Thermistor pin
89	Power component - PCB board	Diode body (circle)
90	Power component - PCB board	Diode pin
91	Power component - PCB board	Transformer black film (small)
92	Power component - PCB board	Transformer magnetic frame (small)
93	Power component - PCB board	Transformer copper coil (small)
94	Power component - PCB board	Transformer black plastic frame (small)
95	Power component - PCB board	Black magnetic ring inductance black film
96	Power component - PCB board	Black magnetic ring inductor copper foil
97	Power component - PCB board	Black magnetic ring inductor copper foil solder
98	Power component - PCB board	Black magnetic ring inductor copper foil pin
99	Power component - PCB board	Black magnetic ring inductor copper color coil
100	Power component - PCB board	Black magnetic ring inductance black magnetic ring

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Sample No.	Location	Sample Description
101	Power component - PCB board	Black magnetic ring inductance black hard rubber
102	Power component - PCB board	Black magnetic ring inductor yellow plastic sheet
103	Power component - PCB board	Electrolytic capacitor black film
104	Power component - PCB board	Electrolytic capacitor aluminum shell
105	Power component - PCB board	Electrolytic capacitor black soft rubber
106	Power component - PCB board	Electrolytic capacitor brown plastic sheet
107	Power component - PCB board	Electrolytic capacitor electrolytic paper
108	Power component - PCB board	Electrolytic capacitor silver foil
109	Power component - PCB board	Electrolytic capacitor gray aluminum foil
110	Power component - PCB board	Electrolytic capacitor aluminum
111	Power component - PCB board	Electrolytic capacitor pin
112	Power component - PCB board	Electrolytic capacitor rivet
113	Power component - PCB board	Electrolytic capacitor black plastic sheet
114	Power component - PCB board	Large transformer black film
115	Power component - PCB board	Large transformer magnetic frame
116	Power component - PCB board	Large transformer yellow film
117	Power component - PCB board	Large transformer copper coil
118	Power component - PCB board	Large transformer black plastic frame
119	Power component - PCB board	Large transformer lead
120	Power component - PCB board	Small transformer black film
121	Power component - PCB board	Small transformer magnetic frame
122	Power component - PCB board	Small transformer transparent casing
123	Power component - PCB board	Small transformer copper coil
124	Power component - PCB board	Small transformer yellow film
125	Power component - PCB board	Small transformer black plastic frame

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Sample No.	Location	Sample Description
126	Power component - PCB board	Small transformer pin
127	Power component - PCB board	Green magnetic ring inductance black heat shrinkable tube
128	Power component - PCB board	Green magnetic ring inductor copper color coil
129	Power component - PCB board	Green magnetic ring inductance green magnetic ring
130	Power component - PCB board	Green magnetic ring inductor yellow plastic sheet
131	Power component - PCB board	X capacitor yellow plastic case
132	Power component - PCB board	X capacitor bottom yellow filler
133	Power component - PCB board	X capacitor silver film
134	Power component - PCB board	X capacitor metal foil
135	Power component - PCB board	X capacitor pin
136	Power component - PCB board	Electrolytic capacitor green film
137	Power component - PCB board	Electrolytic capacitor aluminum shell
138	Power component - PCB board	Electrolytic capacitor rubber plug
139	Power component - PCB board	Electrolytic capacitor electrolytic paper
140	Power component - PCB board	Electrolytic capacitor silver foil
141	Power component - PCB board	Electrolytic capacitor gray aluminum foil
142	Power component - PCB board	Electrolytic capacitor aluminum
143	Power component - PCB board	Electrolytic capacitor pin
144	Power component - PCB board	Electrolytic capacitor brown film
145	Power component - PCB board	Electrolytic capacitor aluminum shell
146	Power component - PCB board	Electrolytic capacitor rubber plug
147	Power component - PCB board	Electrolytic capacitor electrolytic paper
148	Power component - PCB board	Electrolytic capacitor silver foil
149	Power component - PCB board	Electrolytic capacitor gray aluminum foil
150	Power component - PCB board	Electrolytic capacitor aluminum

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Sample No.	Location	Sample Description
151	Power component - PCB board	Electrolytic capacitor pin
152	Power component - PCB board	Insurance tube silver metal cap
153	Power component - PCB board	Fuse pin
154	Power component - PCB board	Fuse tube silver fuse
155	Power component - PCB board	Fuse tube transparent glass
156	Power component - PCB board	Black magnetic ring inductance black heat shrinkable tube (small)
157	Power component - PCB board	Black magnetic ring inductor copper color coil (small)
158	Power component - PCB board	Black magnetic ring inductance black magnetic ring (small)
159	Power component - PCB board	Audion body (semicircle)
160	Power component - PCB board	Audion pin
161	Power component - PCB board	Black magnetic ring inductance red coil (large)
162	Power component - PCB board	Black magnetic ring inductor copper color coil (large)
163	Power component - PCB board	Black magnetic ring inductance black magnetic ring (large)
164	Power component - PCB board	Black magnetic ring inductance black hard rubber (large)
165	Power component - PCB board	Black magnetic ring inductance black soft pad (large)
166	Power component - PCB board	Yellow magnetic ring inductor copper color coil
167	Power component - PCB board	Yellow magnetic ring inductor yellow magnetic ring
168	Power component - PCB board	Sensor gold metal piece
169	Power component - PCB board	Sensor black glue
170	Power component - PCB board	Sensor black body
171	Power component - PCB board	Sensor pin
172	Power component - PCB board	Sensor black heat shrinkable tube
173	Power component - PCB board	Sensor black plastic jacket
174	Power component - PCB board	Sensor silver core
175	Power component - PCB board	I-shaped inductance black casing

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Sample No.	Location	Sample Description
176	Power component - PCB board	I-shaped inductor copper color coil
177	Power component - PCB board	I-shaped inductor magnetic ring
178	Power component - PCB board	Transparent plastic sheet
179	Power component - PCB board	White glue
180	Power component - PCB board	IC body (long)
181	Power component - PCB board	IC pin
182	Power component - PCB board	Optocoupler body
183	Power component - PCB board	Optocoupler pin
184	Power component - PCB board	IC body (small)
185	Power component - PCB board	IC pin
186	Power component - PCB board	Color ring resistance gray body
187	Power component - PCB board	Color ring resistance pin
188	Power component - PCB board	Color ring resistance yellow body
189	Power component - PCB board	Color ring resistance pin
190	Power component - PCB board	Color ring resistance blue body
191	Power component - PCB board	Color ring resistance pin
192	Power component - PCB board	Crystal diode body
193	Power component - PCB board	Crystal diode pin
194	Power component - PCB board	Yellow capacitor body
195	Power component - PCB board	Yellow capacitor pin
196	Power component - PCB board	High voltage ceramic capacitor body
197	Power component - PCB board	High voltage ceramic capacitor pin
198	Power component - PCB board	Green PCB board
199	Power component - PCB board	PCB board solder
200	Wire	Black Velcro strap

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Sample No.	Location	Sample Description
201	Wire	Black nylon cable tie
202	Wire	Black net
203	Wire	Black plastic casing
204	Wire	Orange plastic jacket
205	Wire	Gray plastic jacket
206	Wire	Blue plastic jacket
207	Wire	Brown plastic jacket
208	Wire	Green plastic jacket
209	Wire	Yellow plastic jacket
210	Wire	Red plastic jacket
211	Wire	Purple plastic jacket
212	Wire	Black plastic jacket
213	Wire	Copper core
214	Wire	Black plastic terminal
215	Wire	Terminal silver metal pin
216	Wire	Black heat shrinkable tube
217	Wire	Silver metal buckle

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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					Conclusion
		Cd	Pb	Hg	Cr (Cr (VI))	Br (PBBs/PBDEs)	
1	Screening	BL	BL	BL	BL	BL	Comply
2	Screening	BL	BL	BL	BL	BL	Comply
3	Screening	BL	BL	BL	BL	N.A.	Comply
4	Screening	BL	BL	BL	BL	BL	Comply
5	Screening	BL	BL	BL	BL	N.A.	Comply
6	Screening	BL	BL	BL	BL	N.A.	Comply
7	Screening	BL	BL	BL	BL	N.A.	Comply
8	Screening	BL	BL	BL	BL	N.A.	Comply
9	Screening	BL	BL	BL	BL	BL	Comply
10	Screening	BL	BL	BL	BL	BL	Comply
11	Screening	BL	BL	BL	BL	BL	Comply
12	Screening	BL	BL	BL	BL	BL	Comply
13	Screening	BL	BL	BL	BL	N.A.	Comply
14	Screening	BL	BL	BL	BL	N.A.	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	N.A.	Comply
18	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
19	Screening	BL	BL	BL	BL	BL	Comply
20	Screening	BL	BL	BL	BL	BL	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	BL	N.A.	Comply
24	Screening	BL	BL	BL	BL	N.A.	Comply
25	Screening	BL	BL	BL	BL	N.A.	Comply

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No.	Test Method	Heavy Metals					Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs/PBDEs)	
26	Screening	BL	BL	BL	BL	N.A.	Comply
27	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
28	Screening	BL	BL	BL	BL	N.A.	Comply
29	Screening	BL	BL	BL	BL	N.A.	Comply
30	Screening	BL	BL	BL	BL	BL	Comply
31	Screening	BL	BL	BL	BL	BL	Comply
32	Screening	BL	BL	BL	BL	N.A.	Comply
33	Screening	BL	BL	BL	BL	BL	Comply
34	Screening	BL	BL	BL	BL	N.A.	Comply
35	Screening	BL	BL	BL	BL	N.A.	Comply
36	Screening	BL	BL	BL	BL	BL	Comply
37	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
38	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
39	Screening	BL	BL	BL	BL	N.A.	Comply
40	Screening	BL	BL	BL	BL	BL	Comply
41	Screening	BL	BL	BL	IN	N.A.	Comply
	Wet Chem.	---	---	---	Negative	---	
42	Screening	BL	BL	BL	BL	N.A.	Comply
43	Screening	BL	BL	BL	BL	BL	Comply
44	Screening	BL	BL	BL	IN	N.A.	Comply
	Wet Chem.	---	---	---	Negative	---	
45	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
46	Screening	BL	BL	BL	BL	N.A.	Comply
47	Screening	BL	BL	BL	BL	N.A.	Comply
48	Screening	BL	BL	BL	BL	BL	Comply
49	Screening	BL	BL	BL	BL	N.A.	Comply
50	Screening	BL	BL	BL	BL	BL	Comply

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No.	Test Method	Heavy Metals					Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs/PBDEs)	
51	Screening	BL	BL	BL	BL	N.A.	Comply
52	Screening	BL	BL	BL	BL	BL	Comply
53	Screening	BL	BL	BL	BL	N.A.	Comply
54	Screening	BL	BL	BL	BL	BL	Comply
55	Screening	BL	BL	BL	BL	BL	Comply
56	Screening	BL	BL	BL	BL	N.A.	Comply
57	Screening	BL	BL	BL	BL	N.A.	Comply
58	Screening	BL	BL	BL	BL	N.A.	Comply
59	Screening	BL	BL	BL	BL	N.A.	Comply
60	Screening	BL	BL	BL	BL	BL	Comply
61	Screening	BL	BL	BL	BL	N.A.	Comply
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	N.A.	Comply
66	Screening	BL	BL	BL	BL	N.A.	Comply
67	Screening	BL	BL	BL	IN	N.A.	Comply
	Wet Chem.	---	---	---	Negative	---	
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	BL	Comply
73	Screening	BL	BL	BL	BL	N.A.	Comply
74	Screening	BL	BL	BL	BL	BL	Comply
75	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	

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No.	Test Method	Heavy Metals					Conclusion
		Cd	Pb	Hg	Cr (Gr(VI))	Br (PBBs/PBDEs)	
76	Screening	BL	BL	BL	BL	N.A.	Comply
77	Screening	BL	BL	BL	BL	BL	Comply
78	Screening	BL	BL	BL	BL	BL	Comply
79	Screening	BL	BL	BL	BL	N.A.	Comply
80	Screening	BL	BL	BL	BL	N.A.	Comply
81	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
82	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
83	Screening	BL	BL	BL	BL	BL	Comply
84	Screening	BL	BL	BL	BL	N.A.	Comply
85	Screening	BL	BL	BL	BL	BL	Comply
86	Screening	BL	BL	BL	BL	N.A.	Comply
87	Screening	BL	BL	BL	BL	BL	Comply
88	Screening	BL	BL	BL	BL	N.A.	Comply
89	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
90	Screening	BL	BL	BL	BL	N.A.	Comply
91	Screening	BL	BL	BL	BL	BL	Comply
92	Screening	BL	BL	BL	BL	BL	Comply
93	Screening	BL	BL	BL	BL	N.A.	Comply
94	Screening	BL	BL	BL	BL	BL	Comply
95	Screening	BL	BL	BL	BL	BL	Comply
96	Screening	BL	BL	BL	BL	N.A.	Comply
97	Screening	BL	BL	BL	BL	N.A.	Comply
98	Screening	BL	BL	BL	BL	N.A.	Comply
99	Screening	BL	BL	BL	BL	N.A.	Comply
100	Screening	BL	BL	BL	BL	BL	Comply

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No.	Test Method	Heavy Metals					Conclusion
		Cd	Pb	Hg	Cr (Cr (VI))	Br (PBBs/PBDEs)	
101	Screening	BL	BL	BL	BL	BL	Comply
102	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
103	Screening	BL	BL	BL	BL	BL	Comply
104	Screening	BL	BL	BL	BL	N.A.	Comply
105	Screening	BL	BL	BL	BL	BL	Comply
106	Screening	BL	BL	BL	BL	BL	Comply
107	Screening	BL	BL	BL	BL	BL	Comply
108	Screening	BL	BL	BL	BL	N.A.	Comply
109	Screening	BL	BL	BL	BL	N.A.	Comply
110	Screening	BL	BL	BL	BL	N.A.	Comply
111	Screening	BL	BL	BL	BL	N.A.	Comply
112	Screening	BL	BL	BL	BL	N.A.	Comply
113	Screening	BL	BL	BL	BL	BL	Comply
114	Screening	BL	BL	BL	BL	BL	Comply
115	Screening	BL	BL	BL	BL	BL	Comply
116	Screening	BL	BL	BL	BL	BL	Comply
117	Screening	BL	BL	BL	BL	N.A.	Comply
118	Screening	BL	BL	BL	BL	BL	Comply
119	Screening	BL	BL	BL	BL	N.A.	Comply
120	Screening	BL	BL	BL	BL	BL	Comply
121	Screening	BL	BL	BL	BL	BL	Comply
122	Screening	BL	BL	BL	BL	BL	Comply
123	Screening	BL	BL	BL	BL	N.A.	Comply
124	Screening	BL	BL	BL	BL	BL	Comply
125	Screening	BL	BL	BL	BL	BL	Comply

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No.	Test Method	Heavy Metals					Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs/PBDEs)	
126	Screening	BL	BL	BL	BL	N.A.	Comply
127	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
128	Screening	BL	BL	BL	BL	N.A.	Comply
129	Screening	BL	BL	BL	BL	BL	Comply
130	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
131	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
132	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
133	Screening	BL	BL	BL	BL	BL	Comply
134	Screening	BL	BL	BL	BL	N.A.	Comply
135	Screening	BL	BL	BL	BL	N.A.	Comply
136	Screening	BL	BL	BL	BL	BL	Comply
137	Screening	BL	BL	BL	BL	N.A.	Comply
138	Screening	BL	BL	BL	BL	BL	Comply
139	Screening	BL	BL	BL	BL	BL	Comply
140	Screening	BL	BL	BL	BL	N.A.	Comply
141	Screening	BL	BL	BL	BL	N.A.	Comply
142	Screening	BL	BL	BL	BL	N.A.	Comply
143	Screening	BL	BL	BL	BL	N.A.	Comply
144	Screening	BL	BL	BL	BL	BL	Comply
145	Screening	BL	BL	BL	BL	N.A.	Comply
146	Screening	BL	BL	BL	BL	BL	Comply
147	Screening	BL	BL	BL	BL	BL	Comply
148	Screening	BL	BL	BL	BL	N.A.	Comply
149	Screening	BL	BL	BL	BL	N.A.	Comply
150	Screening	BL	BL	BL	BL	N.A.	Comply

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No.	Test Method	Heavy Metals					Conclusion
		Cd	Pb	Hg	Cr (V/VI)	Br (PBBs/PBDEs)	
151	Screening	BL	BL	BL	BL	N.A.	Comply
152	Screening	BL	BL	BL	BL	N.A.	Comply
153	Screening	BL	BL	BL	BL	N.A.	Comply
154	Screening	BL	BL	BL	BL	N.A.	Comply
155	Screening	BL	BL	BL	BL	BL	Comply
156	Screening	BL	BL	BL	BL	BL	Comply
157	Screening	BL	BL	BL	BL	N.A.	Comply
158	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
159	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
160	Screening	BL	BL	BL	BL	N.A.	Comply
161	Screening	BL	BL	BL	BL	N.A.	Comply
162	Screening	BL	BL	BL	BL	N.A.	Comply
163	Screening	BL	BL	BL	BL	BL	Comply
164	Screening	BL	BL	BL	BL	BL	Comply
165	Screening	BL	BL	BL	BL	BL	Comply
166	Screening	BL	BL	BL	BL	N.A.	Comply
167	Screening	BL	BL	BL	BL	BL	Comply
168	Screening	BL	BL	BL	BL	N.A.	Comply
169	Screening	BL	BL	BL	BL	BL	Comply
170	Screening	BL	BL	BL	BL	BL	Comply
171	Screening	BL	BL	BL	BL	N.A.	Comply
172	Screening	BL	BL	BL	BL	BL	Comply
173	Screening	BL	BL	BL	BL	BL	Comply
174	Screening	BL	BL	BL	BL	N.A.	Comply
175	Screening	BL	BL	BL	BL	BL	Comply

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No.	Test Method	Heavy Metals					Conclusion
		Cd	Pb	Hg	Cr (VI)	Br (PBBs/PBDEs)	
176	Screening	BL	BL	BL	BL	N.A.	Comply
177	Screening	BL	BL	BL	IN	BL	Comply
	Wet Chem.	---	---	---	N.D.	---	
178	Screening	BL	BL	BL	BL	BL	Comply
179	Screening	BL	BL	BL	BL	BL	Comply
180	Screening	BL	BL	BL	BL	BL	Comply
181	Screening	BL	BL	BL	BL	N.A.	Comply
182	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
183	Screening	BL	BL	BL	BL	N.A.	Comply
184	Screening	BL	BL	BL	BL	BL	Comply
185	Screening	BL	BL	BL	BL	N.A.	Comply
186	Screening	BL	BL	BL	BL	BL	Comply
187	Screening	BL	BL	BL	BL	N.A.	Comply
188	Screening	BL	BL	BL	BL	BL	Comply
189	Screening	BL	BL	BL	BL	N.A.	Comply
190	Screening	BL	BL	BL	BL	BL	Comply
191	Screening	BL	BL	BL	BL	N.A.	Comply
192	Screening	BL	OL 23894 See note (6)	BL	BL	BL	Comply
193	Screening	BL	BL	BL	BL	N.A.	Comply
194	Screening	BL	BL	BL	BL	BL	Comply
195	Screening	BL	BL	BL	BL	N.A.	Comply
196	Screening	BL	BL	BL	BL	BL	Comply
197	Screening	BL	BL	BL	BL	N.A.	Comply
198	Screening	BL	BL	BL	BL	IN	Comply
	Wet Chem.	---	---	---	---	N.D.	
199	Screening	BL	BL	BL	BL	N.A.	Comply
200	Screening	BL	BL	BL	BL	BL	Comply

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No.	Test Method	Heavy Metals					Conclusion
		Cd	Pb	Hg	Cr (Cr(VI))	Br (PBBs/P BDEs)	
201	Screening	BL	BL	BL	BL	BL	Comply
202	Screening	BL	BL	BL	BL	BL	Comply
203	Screening	BL	BL	BL	BL	BL	Comply
204	Screening	BL	BL	BL	BL	BL	Comply
205	Screening	BL	BL	BL	BL	BL	Comply
206	Screening	BL	BL	BL	BL	BL	Comply
207	Screening	BL	BL	BL	BL	BL	Comply
208	Screening	BL	BL	BL	BL	BL	Comply
209	Screening	BL	BL	BL	BL	BL	Comply
210	Screening	BL	BL	BL	BL	BL	Comply
211	Screening	BL	BL	BL	BL	BL	Comply
212	Screening	BL	BL	BL	BL	BL	Comply
213	Screening	BL	BL	BL	BL	N.A.	Comply
214	Screening	BL	BL	BL	BL	BL	Comply
215	Screening	BL	BL	BL	BL	N.A.	Comply
216	Screening	BL	BL	BL	BL	BL	Comply
217	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	Flame Retardants				Conclusion
			DEHP	DBP	BBP	DIBP	
1	30+31+33	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
2	60+62+127	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
3	156+172+ 173	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
4	204+205 +206	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
5	207+208 +209	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
6	210+211	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
7	212+216	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
8	18+19+48+ 198+200 +201	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
9	20+27+37 +38+43+45	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
10	63+68+77 +82+94+101	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
11	131+132 +164+169+ 178 + 214	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
12	52+78+91 +95+103 +114	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
13	116+120+ 124+133 +136+144	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
14	54+71+105+ 122+138 +146	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
15	102+106 +113+118 +125+130	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply

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Group No.	Part No.	Test Method	Flame Retardants				Conclusion
			DEHP	DBP	BBP	DIBP	
16	1+2+12	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
17	55+107+139 + 147	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
18	4+9+10+11+ 36	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply
19	165+175 +179+202 +203	Wet Chem.	N.D.	N.D.	N.D.	N.D.	Comply

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-fourth limits indicates the presence of Phthalates on the four tested areas and result were all be regarded as no conflict with the requirement;
- (4) 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;
- (5) 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 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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(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) In accordance with RoHS Directive (2011/65/EU) Annex III Exemption list 7(c), the lead content in glass and ceramic of electronic components is exempted;

(7) No.60, No.62, No.127, No.204, No.205, No.206, No.207, No.208 and No.209 are the second time test sample;

(8) The solder is the second time test sample, and the client declares No.26, No.29, No.49 and No.199 are the same solder and share the data.

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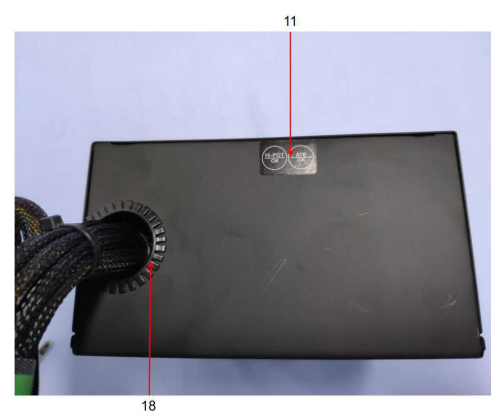
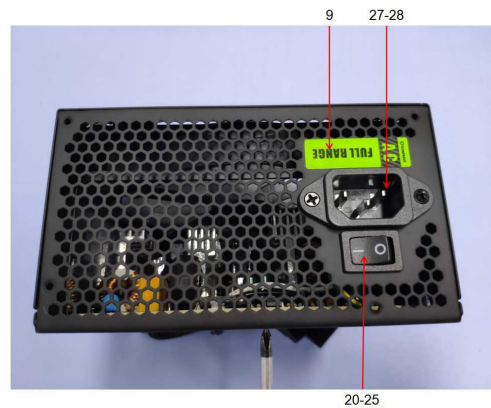
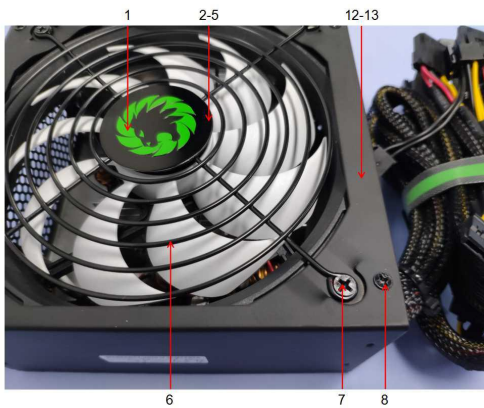
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Photographs of Sample:



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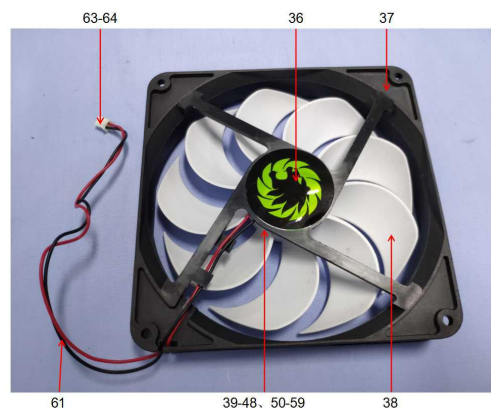
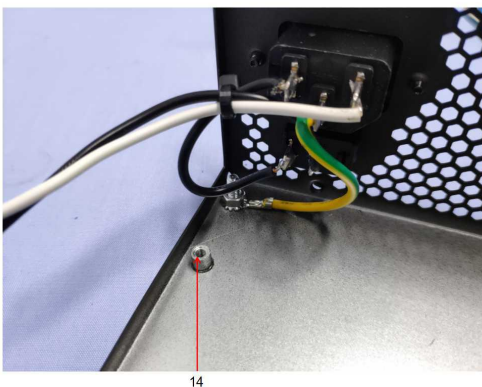
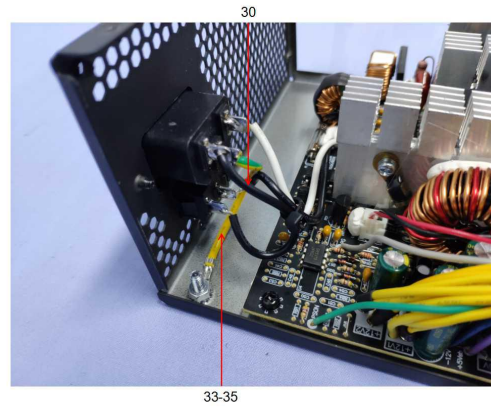
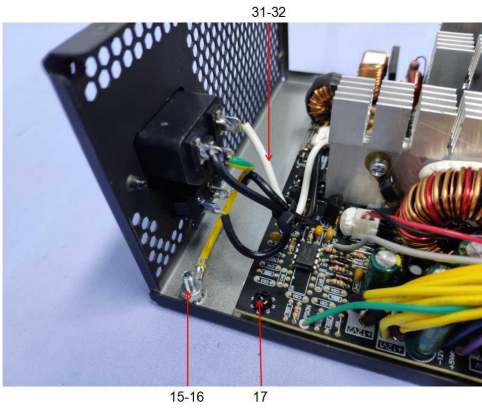
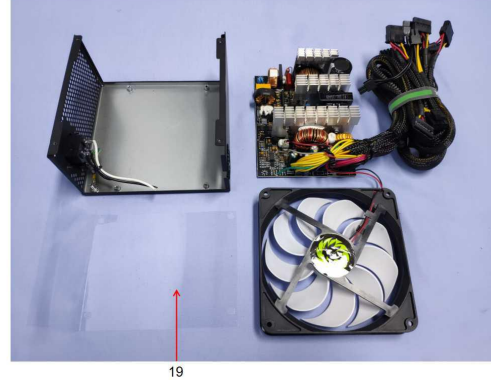
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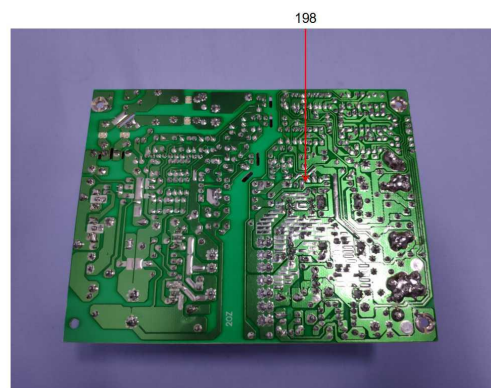
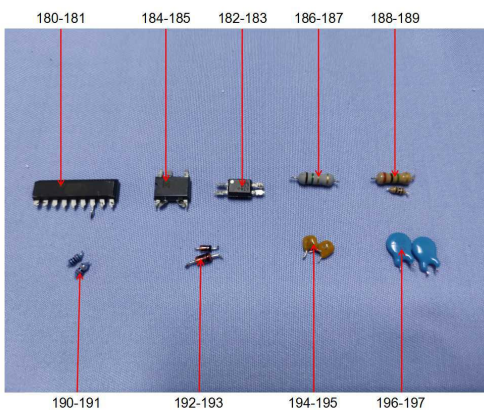
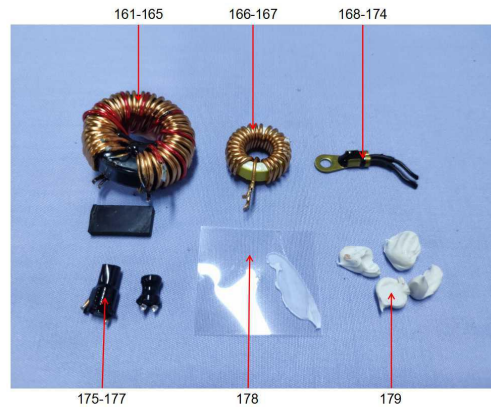
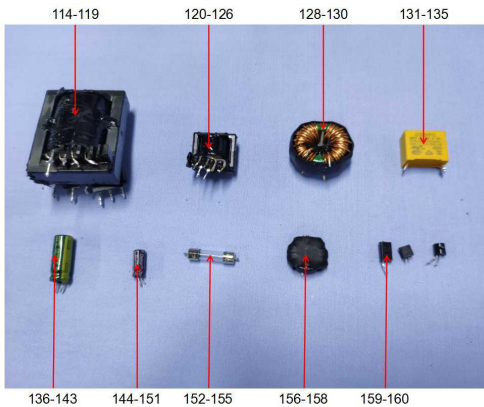
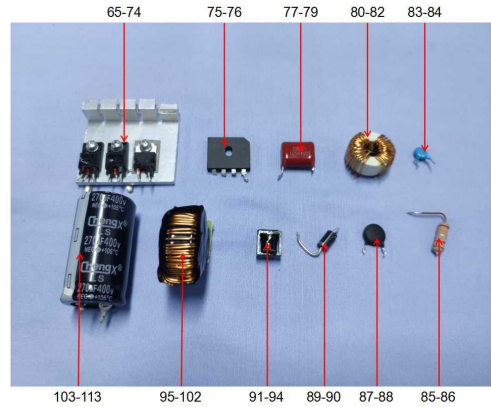
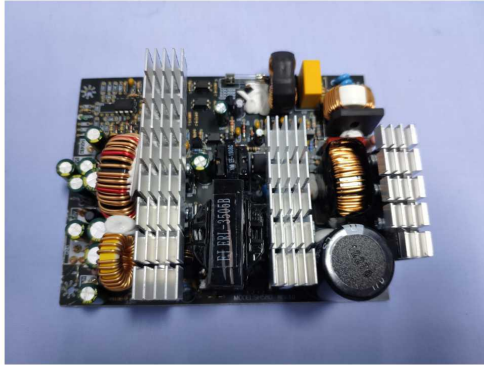
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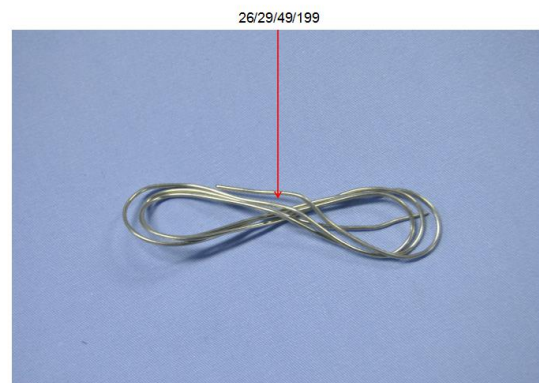
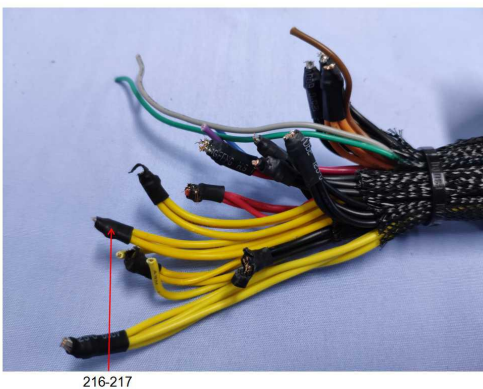
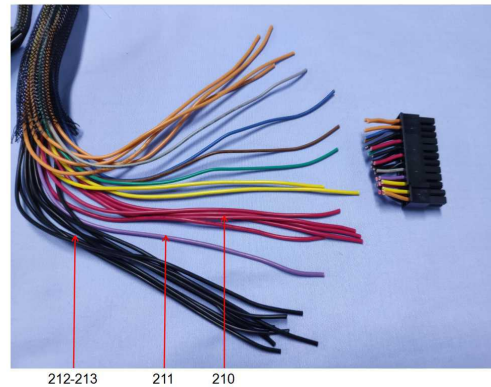
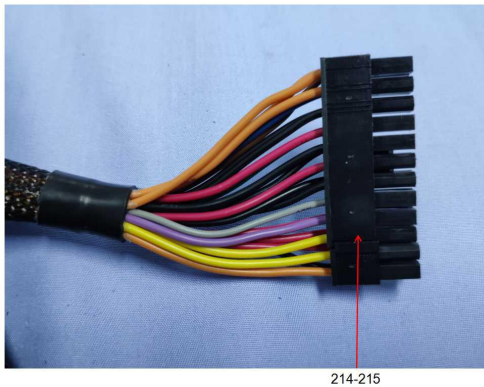
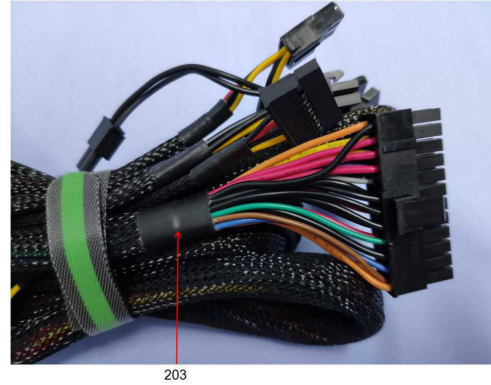
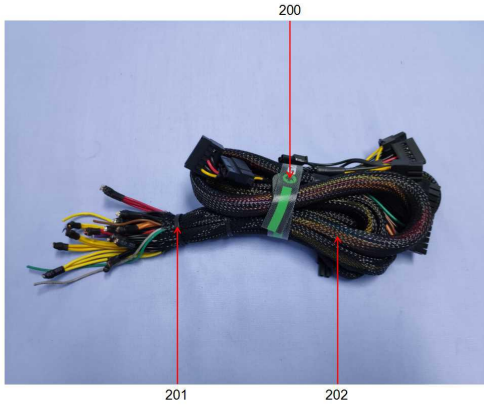
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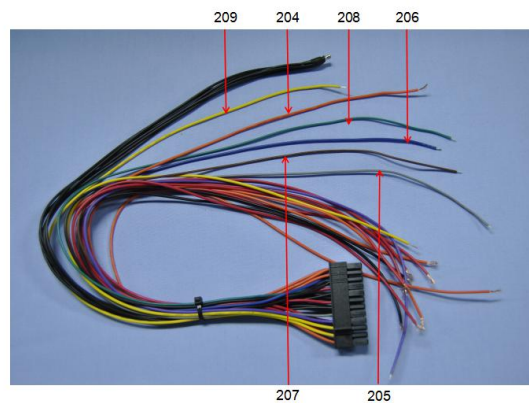
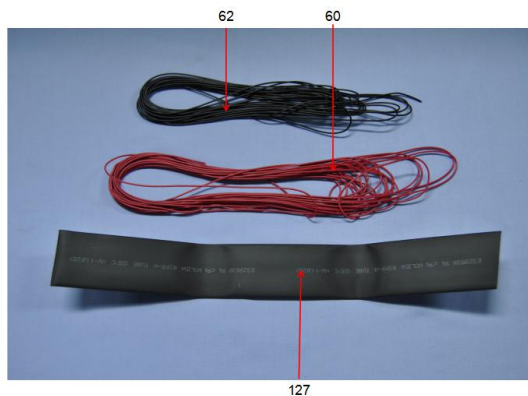
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