



**BUREAU
VERITAS**

TEST REPORT

LAB NO. : (6624)087-1035
DATE : April 15, 2024
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Applicant:
CSE ENERGY & TECHNOLOGY CO., LTD.
NO.777, SIZHUAN ROAD, SONGJIANG, SHANGHAI, CHINA

Date of Submission: 2024-3-27
Test Period: 2024-3-27 to 2024-4-15
Sample Mode: Sample Presentation
BV EE Ref. No.: /

Sample Description:	Sample(s) received is(are) stated to be: Components of Energy storage integrated cabinet		
Manufacturer:	CSE Energy & Technology Co.,Ltd.	Buyer:	/
Style No(s):	EcoPower-Cube-L215A	PO No.:	/
Country of Origin:	Shanghai	Country of Destination:	Oversea Country

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH	PASS
Proposals to the 2 identify Substances of Very High Concern (SVHC)	PASS

Note: Testing as sample submitted by client, this test report is only responsible for the conformity of the tested items. The client is responsible for the representative and authenticity of the submitted samples.
The tested part of the sample was specified by client.
The test conclusion was given based on the results of tested part.
The composite testing was performed as per client's request.

REMARK

If there are questions or concerns on this report, please contact the following persons:

General enquiry and invoicing

Mr. Speed Yu/ Ms. Cabell Chen
(021) 24166888*6832/6859

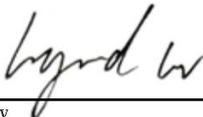
Technical enquiry

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CONSUMER PRODUCTS SERVICES DIVISION (SHANGHAI)

Laboratory Test Location:
No.368,Guangzhong Road, Zhuanqiao Town, Minhang, Shanghai
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PREPARED BY : Ainnie


Lynd Lv
Technical Specialist



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Note:

1. The limit of 0.1% (w/w) applies to an article. The results were calculated according to Guidance on requirements for substances in articles Version 4.0 - June 2017, reference to the judgement of the European Court of Justice of 10 September 2015 in case C-106/142. However, the results may not be applicable if the intended use of the sample is a substance or mixture. According to REACH, definition of an article, substance and mixture are:
 - i. Article - An object during production is given a special shape, surface or design which determines its function to a greater degree than does its chemical composition
 - ii. Substance - A chemical element and its compound in the natural state or obtained by any manufacturing process
 - iii. Mixture (Previously known as "Preparation") - A mixture or solution composed of two or more substances
2. In accordance of Article 7 of Regulation (EC) No. 1907/2006 (REACH regulation) – Registration and notification of substances in articles, any producer or importer of articles shall notify ECHA, if a substance meets in criteria in Article 57 and is identified in accordance with Article 59(1), if both (1) the substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year & (2) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w) are met. The information to be notified shall include (a) identity and contact details of the producer or importer, (b) the registration numbers, (c) the identity of the substance and (d) the classification of the substance, (e) a brief description of the use of the substance and (f) the tonnage range of the substance.
3. In accordance of Article 33 of Regulation (EC) No. 1907/2006 (REACH regulation) – Duty to communicate information on substances in articles, any supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance. On request by a consumer the relevant information shall be provided by any supplier of an article free of charge, within 45 days of receipt of the request.
4. If SVHC was detected exceeding 0,1% (w/w) in test group, client is suggested to perform the further separate testing to identify the exact concentration of test items.



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Photo of the Submitted Sample





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Test Item	Description	Location	Test Group
1	Silvery metal	Housing	Group 9
2	Coppery metal with silvery plating		Group 9
3	Coppery metal		Group 9
4	Grey plastic		Group 4
5	Orange plastic		Group 4
6	Orange plastic		Group 4
7	Black plastic		Group 4
8	Black plastic		Group 4
9	Black plastic		Group 4
10	Black plastic		Group 4
11	Silvery metal spring		Group 9
12	Silvery metal		Group 9
13	Coppery metal with silvery plating		Group 9
14	Coppery metal with silvery plating		Group 9
15	Coppery metal with silvery plating		Group 9
16	Red plastic		Group 4
17	Transparent plastic		Group 4
18	Yellow plastic		Group 4
19	White plastic		Group 4
20	Silvery metal spring		Group 9
21	Grey plastic		Group 4
22	Black plastic		Group 4
23	Silvery metal		Group 9
24	Black plastic		Group 4
25	Grey plastic		Group 4
26	Golden metal with silvery plating		Group 9
27	Silvery metal spring		Group 9
28	Grey plastic		Group 4
29	Silvery metal screw		Group 9
30	Blue plastic		Group 4
31	Red plastic		Group 4
32	Green plastic		Group 4
33	White plastic		Group 4
34	Silvery metal solder		Group 9
35	Silvery metal solder		Group 9
36	Coppery metal with silvery plating		Group 9
37	Silvery metal		Group 9
38	Silvery metal screw with black plating		Group 9
39	Silvery metal		Group 9
40	Silvery metal		Group 9
41	Silvery metal		Group 10
42	Silvery metal solder		Group 10
43	Silvery metal solder		Group 10
44	Silvery metal		Group 10
45	Silvery metal solder		Group 10
46	Coppery metal		Group 10
47	Golden metal		Group 10



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Test Item	Description	Location	Test Group
48	Silvery metal solder	Housing	Group 10
49	Silvery metal solder		Group 10
50	Coppery metal with silvery plating		Group 10
51	Golden metal with silvery plating		Group 10
52	Coppery metal		Group 10
53	Coppery metal		Group 10
54	Coppery metal with silvery plating		Group 10
55	Silvery metal with black plating		Group 10
56	Silvery metal		Group 10
57	Silvery metal solder		Group 10
58	Silvery metal solder		Group 10
59	Golden metal with silvery plating		Group 10
60	Silvery metal solder		Group 10
61	Silvery metal		Group 11
62	Coppery metal with silvery plating		Group 11
63	Coppery metal contact point with silvery plating		Group 11
64	Silvery metal		Group 11
65	Silvery metal solder		Group 11
66	Silvery metal solder		Group 11
67	Coppery metal contact point with silvery plating		Group 11
68	Golden metal with silvery plating		Group 11
69	Silvery metal solder		Group 11
70	Silvery metal solder		Group 11
71	Silvery metal solder		Group 11
72	Coppery metal with silvery plating		Group 11
73	Golden metal with silvery plating		Group 11
74	Silvery metal with red plating		Group 11
75	Golden metal with silvery plating		Group 11
76	Silvery metal solder		Group 11
77	Coppery metal		Group 11
78	Silvery metal solder		Group 11
79	Silvery metal solder	Group 11	
80	Silvery metal	Group 11	
81	Coppery metal	Group 12	
82	Silvery metal	Group 12	
83	Coppery metal contact point with silvery plating	Group 12	
84	Silvery metal solder	Group 12	
85	Golden metal	Group 12	
86	Silvery metal solder	Group 12	
87	Silvery metal solder	Group 12	
88	Silvery metal solder	Group 12	
89	Silvery metal	Group 12	
90	Silvery metal solder	Group 12	
91	Silvery metal solder	Group 12	
92	Silvery metal screw with black plating	Group 12	
93	Silvery metal with black plating	Group 12	
94	Silvery metal with black plating	Group 12	



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Test Item	Description	Location	Test Group
95	Silvery metal spring with black plating	Carte	Group 12
96	Silvery metal with black plating		Group 16
97	Silvery metal solder		Group 12
98	Coppery metal contact point with silvery plating		Group 12
99	Silvery metal solder		Group 12
100	Silvery metal solder		Group 12
101	Silvery metal solder		Group 12
102	Coppery metal		Group 13
103	Silvery metal		Group 13
104	Silvery metal with colorful plating		Group 13
105	Silvery metal		Group 13
106	Silvery metal solder		Group 13
107	Silvery metal solder		Group 13
108	Coppery metal contact point with silvery plating		Group 13
109	Silvery metal solder		Group 13
110	Silvery metal solder		Group 13
111	Silvery metal solder		Group 13
112	Silvery metal		Group 13
113	Coppery metal contact point with silvery plating		Group 13
114	Silvery metal solder		Group 13
115	Silvery metal solder		Group 13
116	Coppery metal contact point with silvery plating		Group 13
117	Silvery metal solder		Group 13
118	Silvery metal solder		Group 13
119	Silvery metal solder		Group 13
120	Silvery metal solder		Group 13
121	Silvery metal		Group 13
122	Silvery metal solder		Group 14
123	Silvery metal solder		Group 14
124	Silvery metal solder		Group 14
125	Silvery metal solder		Group 14
126	Silvery metal solder		Group 14
127	Golden metal		Group 14
128	Silvery metal		Group 14
129	Silvery metal solder		Group 14
130	Coppery metal		Group 14
131	Silvery metal solder		Group 14
132	Grey plastic		Group 5
133	Black plastic		Group 5
134	Grey plastic		Group 5
135	Beige plastic		Group 5
136	Red plastic	Group 5	
137	Black plastic	Group 5	
138	Orange plastic	Group 5	
139	Grey plastic	Group 5	
140	Green plastic	Group 5	
141	Brown plastic	Group 5	



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Test Item	Description	Location	Test Group
142	White fabric	Carte	Group 5
143	Black plastic		Group 5
144	Black plastic		Group 5
145	Grey plastic		Group 5
146	Black plastic		Group 5
147	Red plastic		Group 5
148	Black plastic		Group 5
149	Silvery metal		Group 14
150	Silvery metal solder		Group 14
151	Black plastic		Group 5
152	Silvery metal solder		Group 14
153	White glue		Group 5
154	Black plastic		Group 6
155	White plastic		Group 6
156	Silvery metal solder		Group 14
157	Beige plastic		Group 6
158	Silvery metal		Group 14
159	Silvery metal solder		Group 14
160	Silvery metal solder		Group 14
161	Silvery metal solder		Group 14
162	Silvery metal solder		Group 14
163	Translucent plastic		Group 6
164	Black plastic		Group 6
165	White plastic		Group 6
166	Silvery metal solder		Group 14
167	Silvery metal solder		Group 15
168	Black plastic		Group 6
169	Coppery metal contact point with silvery plating		Group 15
170	White fabric with white glue		Group 6
171	Black glue		Group 6
172	Beige plastic		Group 6
173	Silvery metal solder		Group 15
174	Silvery metal solder		Group 15
175	White plastic		Group 6
176	Transparent glue		Group 6
177	Silvery metal solder		Group 15
178	Black glue	Group 6	
179	Blue plastic	Group 6	
180	Silvery metal solder	Group 15	
181	Black plastic	Group 6	
182	Black plastic	Group 6	
183	Silvery metal	Group 15	
184	Brown paper	Group 6	
185	Silvery metal solder	Group 15	
186	Silvery metal solder	Group 15	
187	Silvery metal solder	Group 15	
188	Green plastic	Group 6	



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Test Item	Description	Location	Test Group
189	Black plastic	Carte	Group 6
190	Silvery metal solder		Group 15
191	Silvery metal solder		Group 15
192	Silvery metal solder		Group 15
193	White plastic		Group 6
194	Silvery metal solder		Group 15
195	Silvery metal solder		Group 15
196	Silvery metal solder		Group 15
197	Silvery metal		Group 15
198	Silvery metal solder		Group 15
199	Silvery metal solder		Group 15
200	Silvery metal solder		Group 16
201	Silvery metal solder		Group 16
202	Silvery metal solder		Group 16
203	Silvery metal solder		Group 16
204	Coppery metal contact point with silvery plating		Group 16
205	Silvery metal solder		Group 16
206	Silvery metal solder		Group 16
207	Coppery metal contact point with silvery plating		Group 16
208	Silvery metal solder		Group 16
209	Silvery metal solder		Group 16
210	Silvery metal solder		Group 16
211	Silvery metal solder		Group 16
212	Silvery metal solder		Group 16
213	Black plastic		Group 7
214	Black plastic		Group 7
215	Silvery metal solder		Group 16
216	Silvery metal solder		Group 16
217	Orange plastic		Group 7
218	Orange plastic		Group 7
219	Silvery metal solder		Group 16
220	Coppery metal contact point with silvery plating		Group 16
221	Pink glue		Group 7
222	Silvery metal solder		Group 16
223	Silvery metal solder		Group 16
224	Silvery metal solder	Group 17	
225	Silvery metal solder	Group 17	
226	Coppery metal contact point with silvery plating	Group 17	
227	Silvery metal solder	Group 17	
228	Black plastic	Group 7	
229	Blue plastic	Group 7	
230	Black plastic	Group 7	
231	Black plastic	Group 7	
232	Grey plastic	Group 7	
233	Green plastic	Group 7	
234	Silvery metal solder	Group 17	
235	Yellow plastic	Group 7	



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Test Item	Description	Location	Test Group
236	Brown plastic	Carte	Group 7
237	Black plastic		Group 7
238	Yellow and red plastic wire jacket		Group 1
239	Yellow and black plastic wire jacket		Group 1
240	Yellow and white plastic wire jacket		Group 1
241	Green and white plastic wire jacket		Group 1
242	Green and yellow plastic wire jacket		Group 1
243	Green plastic wire jacket		Group 1
244	Red plastic wire jacket		Group 1
245	Red and white plastic wire jacket		Group 1
246	White plastic wire jacket		Group 1
247	Grey plastic wire jacket		Group 1
248	Black plastic wire jacket		Group 1
249	Black and white plastic wire jacket		Group 1
250	Pink plastic wire jacket		Group 1
251	Orange plastic wire jacket		Group 1
252	Purple plastic wire jacket		Group 1
253	Blue plastic wire jacket		Group 1
254	Blue and white plastic wire jacket		Group 1
255	Black glue		Group 7
256	Black plastic		Group 7
257	Grey plastic		Group 1
258	Black plastic		Group 1
259	Grey plastic		Group 1
260	Coppery metal contact point with silvery plating		Group 17
261	Beige glue		Group 7
262	Silvery metal solder		Group 17
263	Black plastic		Group 7
264	Silvery metal solder		Group 17
265	Black plastic		Group 7
266	Silvery metal solder		Group 17
267	Black plastic		Group 7
268	Silvery metal solder		Group 17
269	White plastic wire jacket		Group 2
270	White plastic wire jacket		Group 2
271	Coppery metal contact point with golden plating		Group 17
272	Blue plastic		Group 2
273	Transparent plastic		Group 2
274	Red plastic		Group 2
275	Blue plastic		Group 2
276	Coppery metal		Group 17
277	Silvery metal		Group 17
278	Yellow plastic	Group 2	
279	Blue plastic	Group 2	
280	Green plastic	Group 2	
281	White plastic	Group 2	
282	White plastic	Group 2	



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Test Item	Description	Location	Test Group
283	Transparent plastic	Carte	Group 2
284	Black plastic		Group 2
285	Black plastic wire jacket		Group 2
286	Red plastic wire jacket		Group 2
287	Brown plastic wire jacket		Group 2
288	White plastic wire jacket		Group 2
289	Black plastic wire jacket		Group 2
290	Blue plastic wire jacket		Group 2
291	Green plastic wire jacket		Group 2
292	Yellow plastic wire jacket		Group 3
293	Orange plastic wire jacket		Group 3
294	Red plastic wire jacket		Group 3
295	Blue plastic		Group 3
296	Brown plastic wire jacket		Group 3
297	Blue plastic wire jacket		Group 3
298	Green and yellow plastic wire jacket		Group 3
299	Silvery metal solder		Group 17
300	Silvery metal solder		Group 17
301	Silvery metal solder		Group 17
302	Yellow coating		Housing
303	Green coating	Group 8	



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TEST RESULT

Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH

Method: Analysis is based on GC, LC, IC, ICP and UV, with various detection techniques.

Maximum Allowable Limit:	0.1% (Each of listed)
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Test Group 1:	Soft plastic group	Test Item:	238+239+240+241+242+ 243+244+245+246+247+ 248+249+250+251+252+ 253+254+257+258+259
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 2:	Soft plastic group	Test Item:	269+270+272+273+274+ 275+278+279+280+281+ 282+283+284+285+286+ 287+288+289+290+291
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 3:	Soft plastic group	Test Item:	292+293+294+295+296+ 297+298
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 4:	Hard plastic group	Test Item:	4+5+6+7+8+9+10+16+ 17+18+19+21+22+24+ 25+28+30+31+32+33
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS



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Test Group 5:	Hard plastic group	Test Item:	132+133+134+135+136+ 137+138+139+140+141+ 142+143+144+145+146+ 147+148+151+153
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 6:	Hard plastic group	Test Item:	154+155+157+163+164+ 165+168+170+171+172+ 175+176+178+179+181+ 182+184+188+189+193
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 7:	Hard plastic group	Test Item:	213+214+217+218+221+ 228+229+230+231+232+ 233+235+236+237+255+ 256+261+263+265+267
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 8:	Coating group	Test Item:	302+303
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 9:	Metal group	Test Item:	1+2+3+11+12+13+14+ 15+20+23+26+27+29+ 34+35+36+37+38+39+ 40
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS



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Test Group 10:	Metal group	Test Item:	41+42+43+44+45+46+ 47+48+49+50+51+52+ 53+54+55+56+57+58+ 59+60
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 11:	Metal group	Test Item:	61+62+63+64+65+66+ 67+68+69+70+71+72+ 73+74+75+76+77+78+ 79+80
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 12:	Metal group	Test Item:	81+82+83+84+85+86+ 87+88+89+90+91+92+ 93+94+95+97+98+99+ 100+101
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 13:	Metal group	Test Item:	102+103+104+105+106+ 107+108+109+110+111+ 112+113+114+115+116+ 117+118+119+120+121
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 14:	Metal group	Test Item:	122+123+124+125+126+ 127+128+129+130+131+ 149+150+152+156+158+ 159+160+161+162+166
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS



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Test Group 15:	Metal group	Test Item:	167+169+173+174+177+ 180+183+185+186+187+ 190+191+192+194+195+ 196+197+198+199
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 16:	Metal group	Test Item:	96+200+201+202+203+ 204+205+206+207+208+ 209+210+211+212+215+ 216+219+220+222+223
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 17:	Metal group	Test Item:	224+225+226+227+234+ 260+262+264+266+268+ 271+276+277+299+300+ 301
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Remark:

ND = Not Detected

mg/kg = milligram per kilogram

Detection Limit (%): See Appendix.

The detected SVHC and its value will be shown in above table, the else SVHC not shown in the table will be regarded as ND. When all SVHC for test are not detected, it will be shown ND.

Conc. = Concentration

% = percentage

1 mg/kg = 0.0001%



TEST RESULT

Proposals to the 2 identify Substances of Very High Concern (SVHC)

Method: Analysis is based on GC, LC, IC, ICP and UV, with various detection techniques.

Maximum Allowable Limit:	0.1% (Each of listed)
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Test Group 1:	Soft plastic group	Test Item:	238+239+240+241+242+ 243+244+245+246+247+ 248+249+250+251+252+ 253+254+257+258+259
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 2:	Soft plastic group	Test Item:	269+270+272+273+274+ 275+278+279+280+281+ 282+283+284+285+286+ 287+288+289+290+291
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 3:	Soft plastic group	Test Item:	292+293+294+295+296+ 297+298
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 4:	Hard plastic group	Test Item:	4+5+6+7+8+9+10+16+ 17+18+19+21+22+24+ 25+28+30+31+32+33
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS



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Test Group 5:	Hard plastic group	Test Item:	132+133+134+135+136+ 137+138+139+140+141+ 142+143+144+145+146+ 147+148+151+153
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 6:	Hard plastic group	Test Item:	154+155+157+163+164+ 165+168+170+171+172+ 175+176+178+179+181+ 182+184+188+189+193
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 7:	Hard plastic group	Test Item:	213+214+217+218+221+ 228+229+230+231+232+ 233+235+236+237+255+ 256+261+263+265+267
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 8:	Coating group	Test Item:	302+303
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 9:	Metal group	Test Item:	1+2+3+11+12+13+14+ 15+20+23+26+27+29+ 34+35+36+37+38+39+ 40
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS



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Test Group 10:	Metal group	Test Item:	41+42+43+44+45+46+ 47+48+49+50+51+52+ 53+54+55+56+57+58+ 59+60
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 11:	Metal group	Test Item:	61+62+63+64+65+66+ 67+68+69+70+71+72+ 73+74+75+76+77+78+ 79+80
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 12:	Metal group	Test Item:	81+82+83+84+85+86+ 87+88+89+90+91+92+ 93+94+95+97+98+99+ 100+101
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 13:	Metal group	Test Item:	102+103+104+105+106+ 107+108+109+110+111+ 112+113+114+115+116+ 117+118+119+120+121
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 14:	Metal group	Test Item:	122+123+124+125+126+ 127+128+129+130+131+ 149+150+152+156+158+ 159+160+161+162+166
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS



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Test Group 15:	Metal group	Test Item:	167+169+173+174+177+ 180+183+185+186+187+ 190+191+192+194+195+ 196+197+198+199
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 16:	Metal group	Test Item:	96+200+201+202+203+ 204+205+206+207+208+ 209+210+211+212+215+ 216+219+220+222+223
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Test Group 17:	Metal group	Test Item:	224+225+226+227+234+ 260+262+264+266+268+ 271+276+277+299+300+ 301
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Result		Conclusion
Detected Analyte(s)	Conc. (%)	
ND	ND	PASS

Remark:

ND = Not Detected

mg/kg = milligram per kilogram

Detection Limit (%): See Appendix.

The detected SVHC and its value will be shown in above table, the else SVHC not shown in the table will be regarded as ND. When all SVHC for test are not detected, it will be shown ND.

Conc. = Concentration

% = percentage

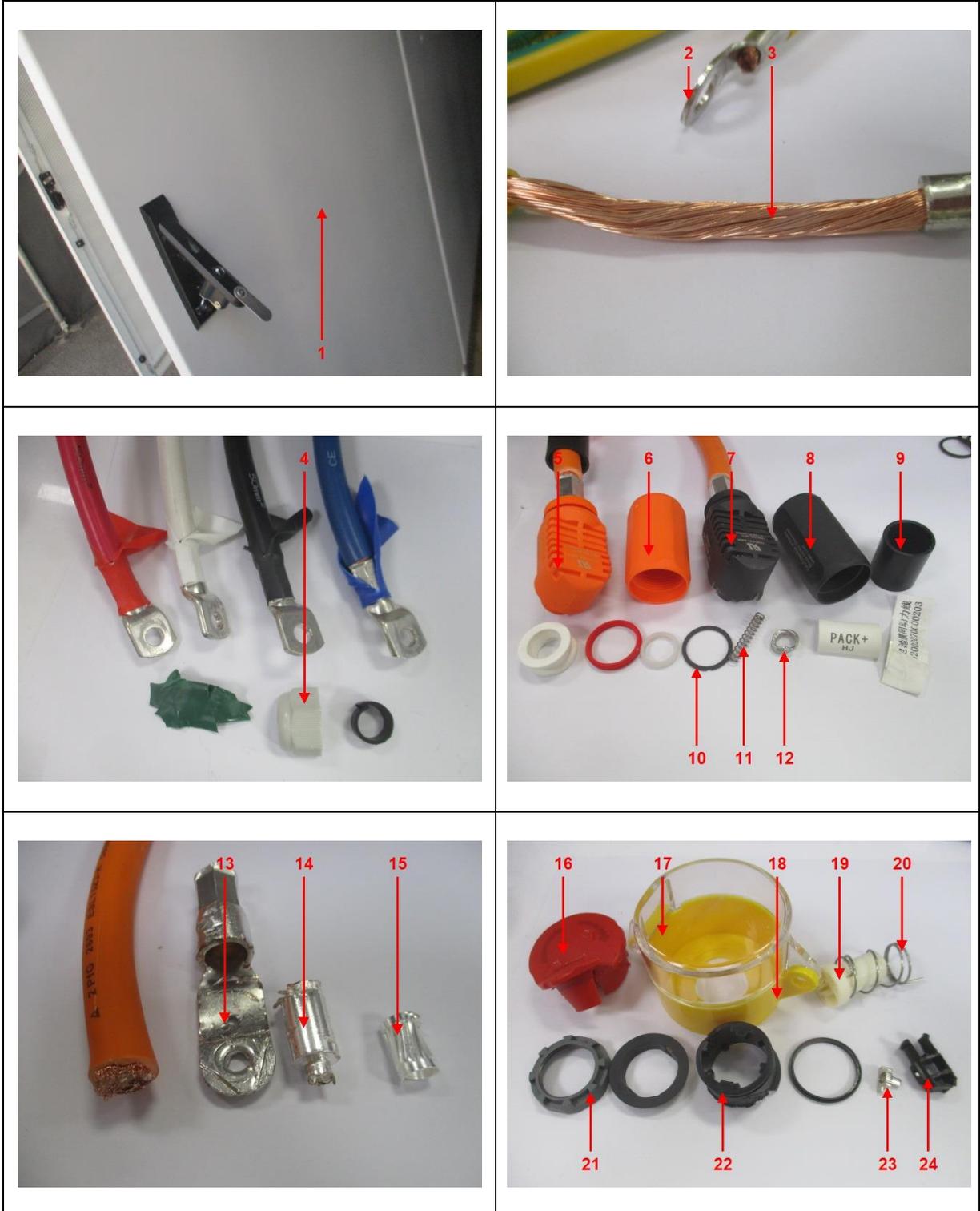
1 mg/kg = 0.0001%



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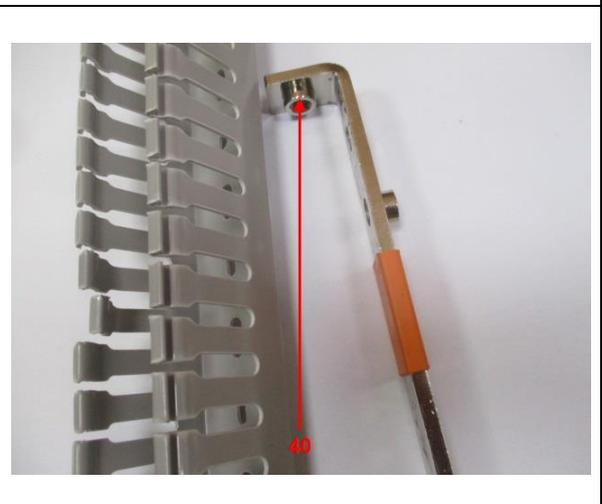
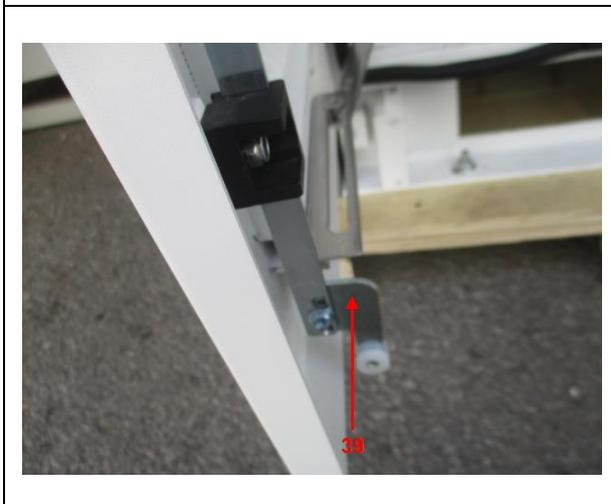
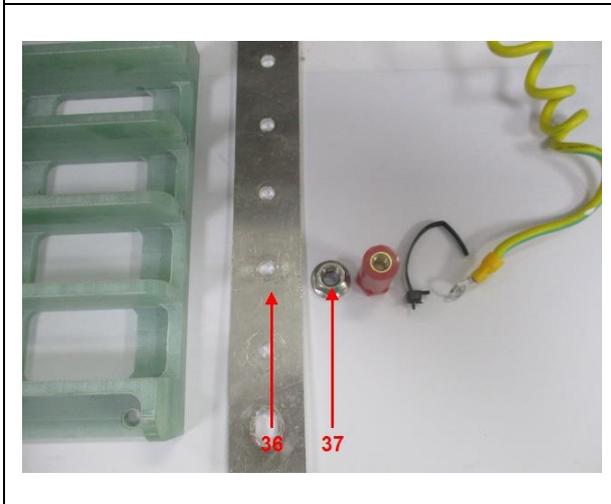
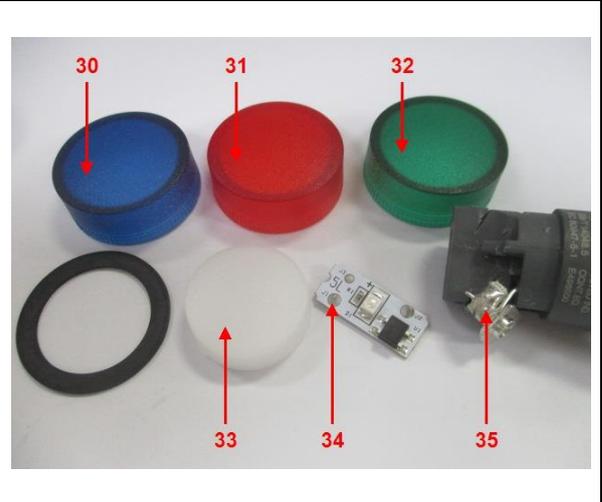
Photograph depicting Test Item(s)





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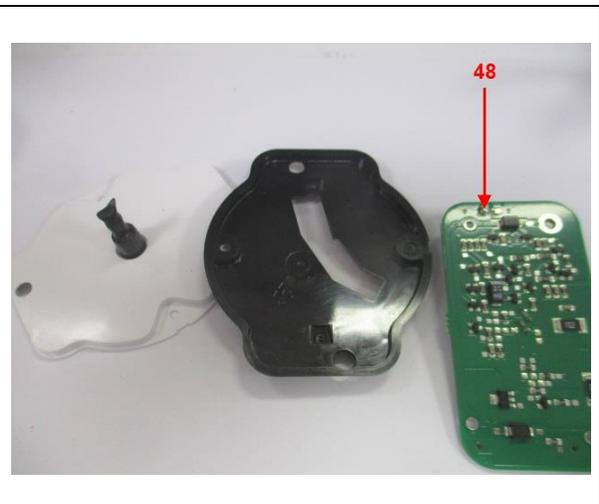
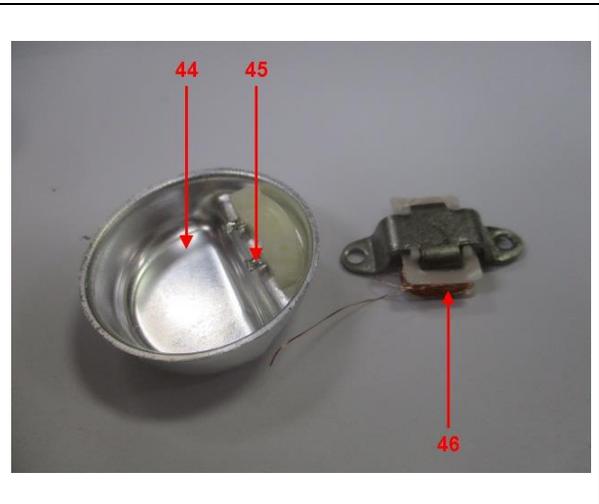
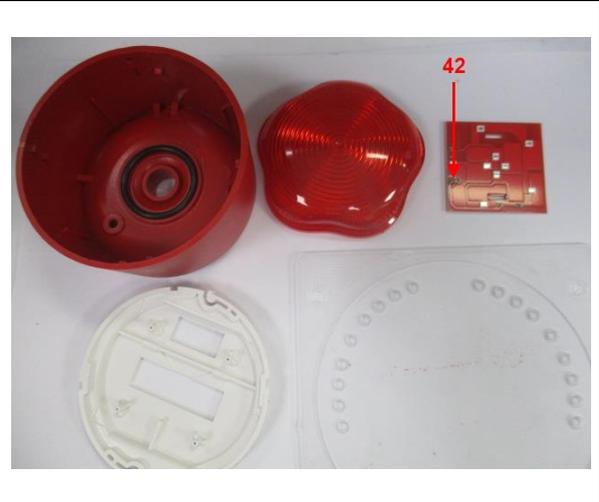
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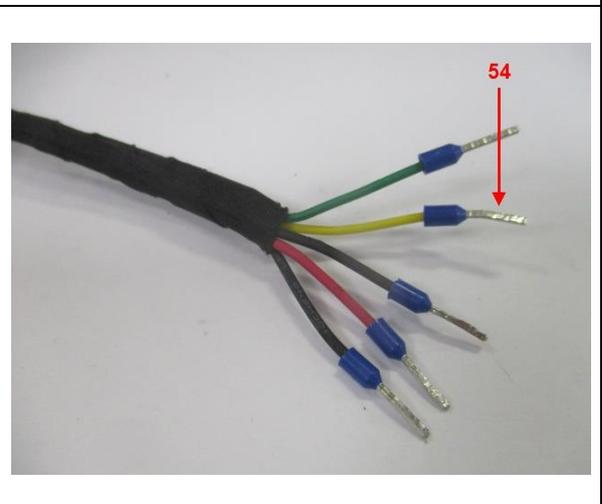
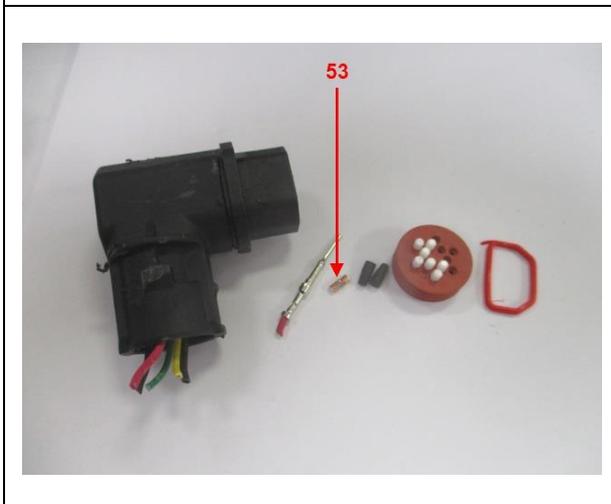
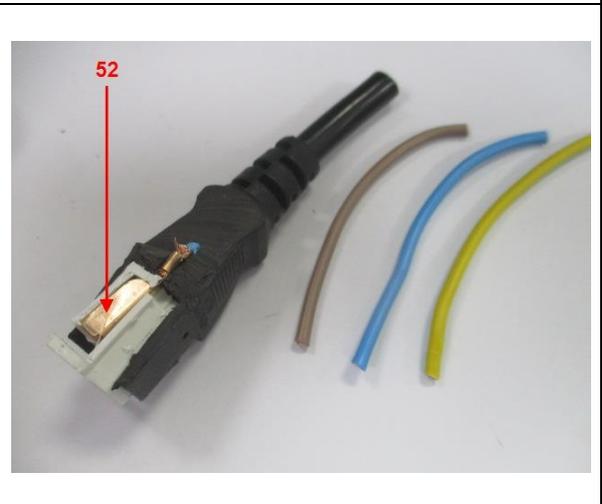
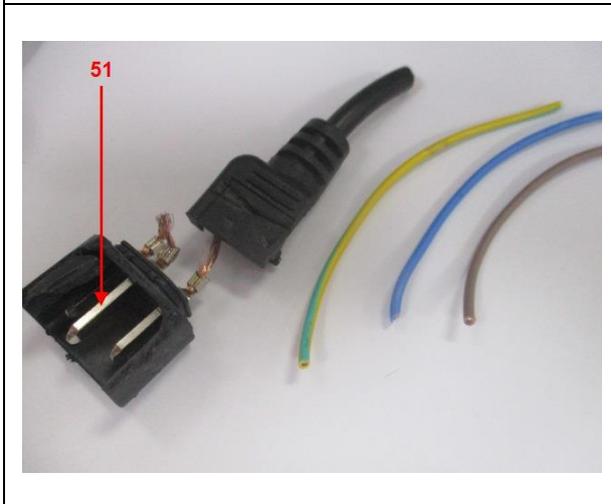
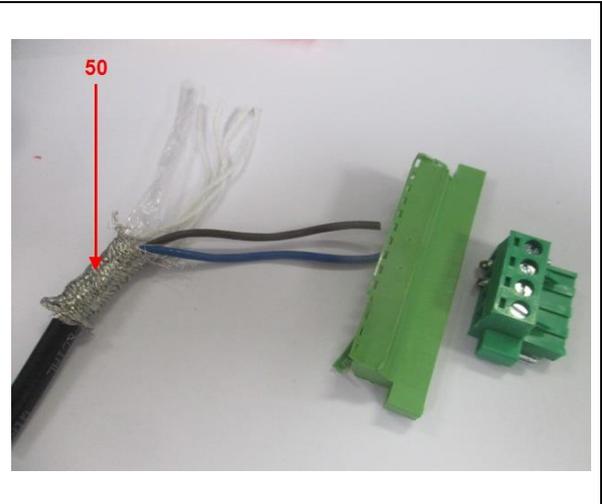
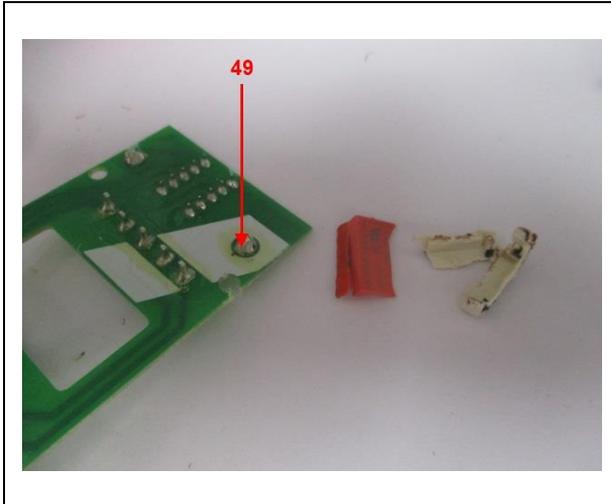
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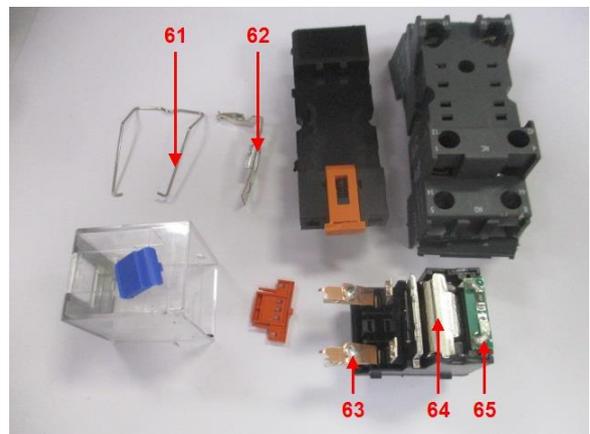
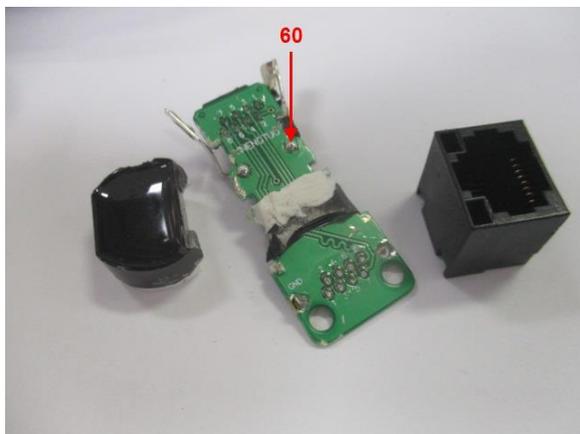
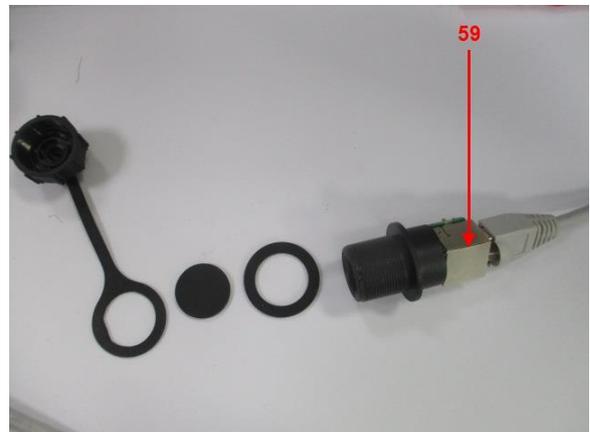
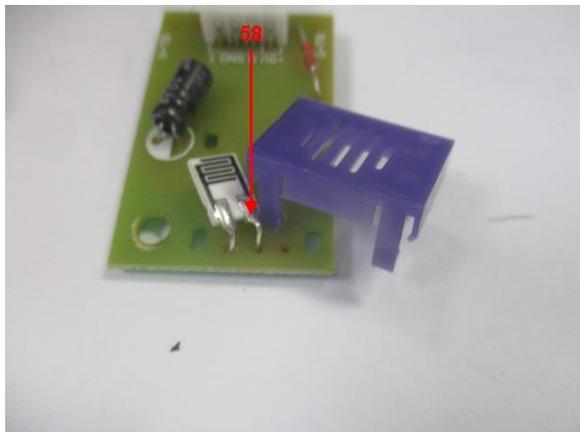
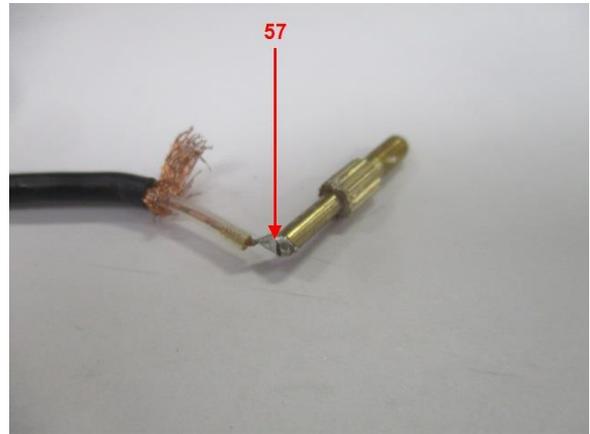
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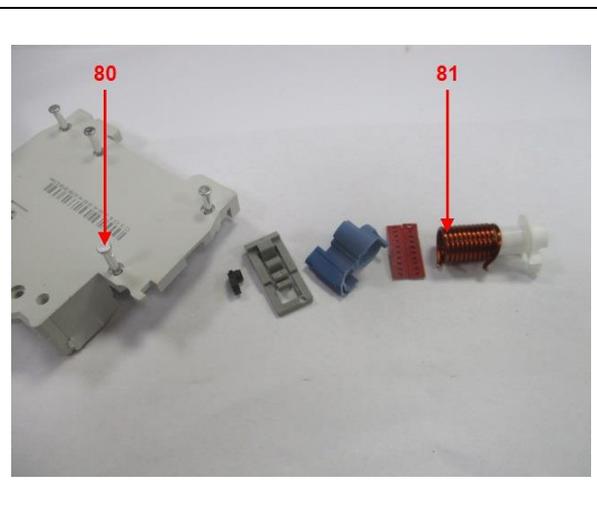
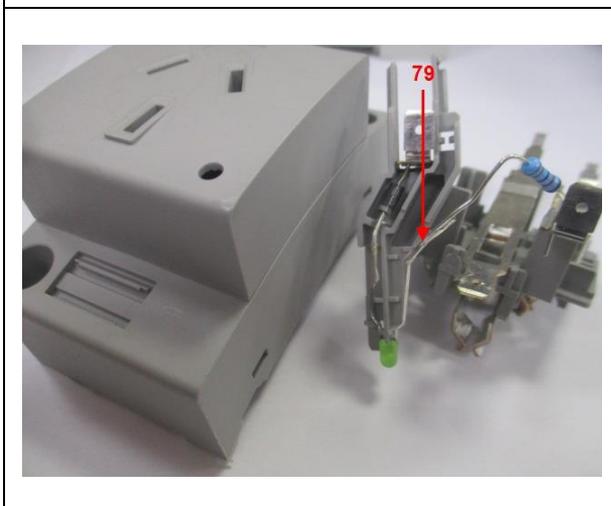
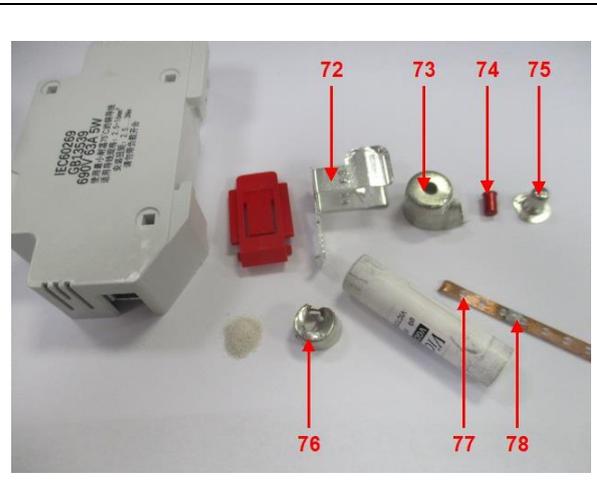
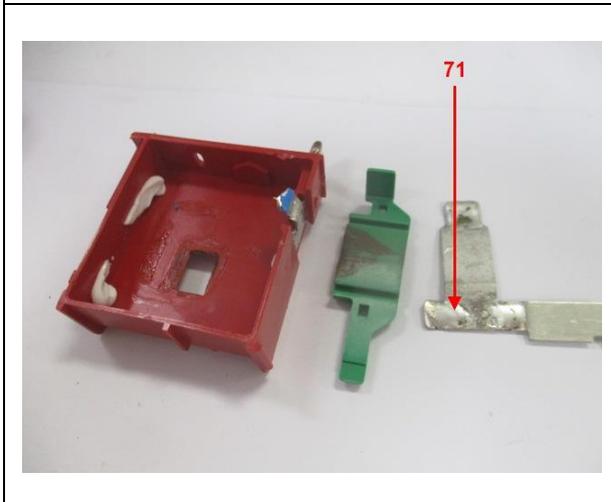
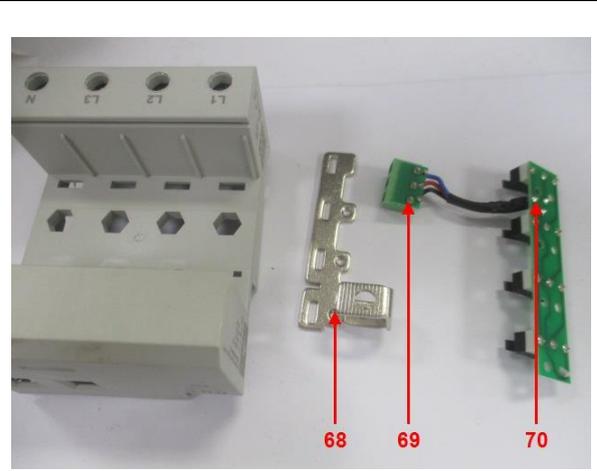
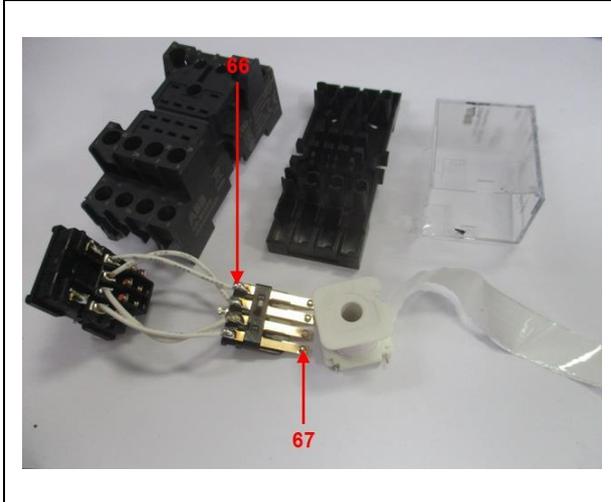
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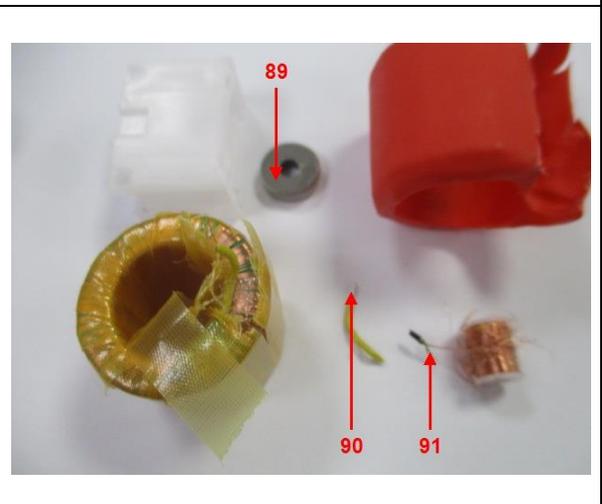
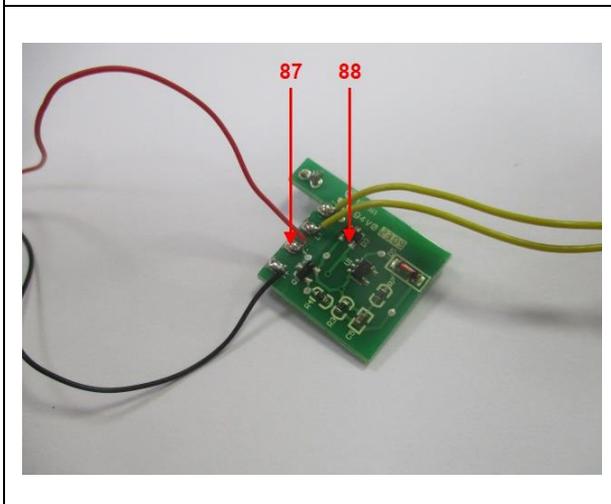
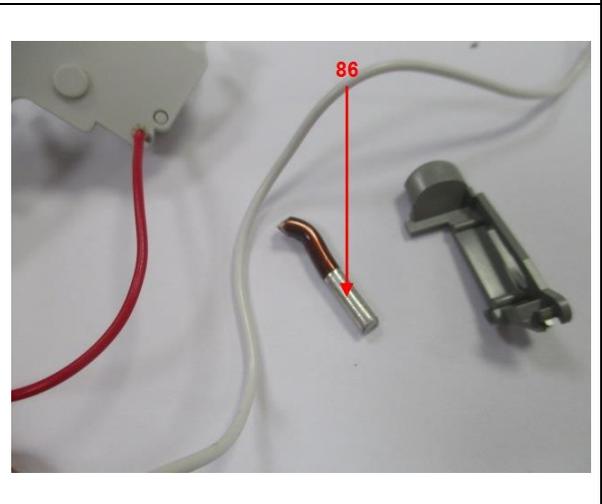
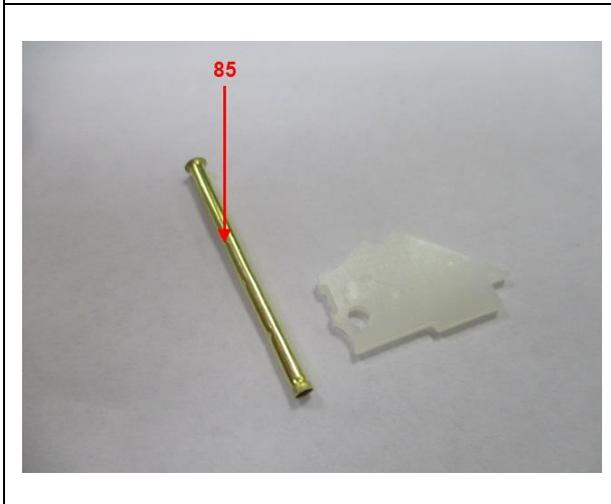
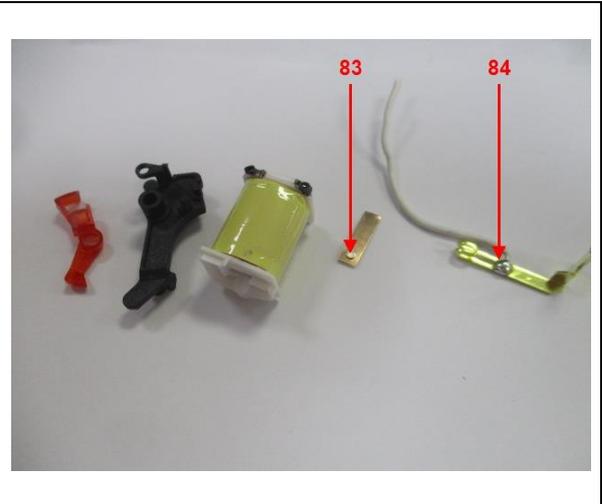
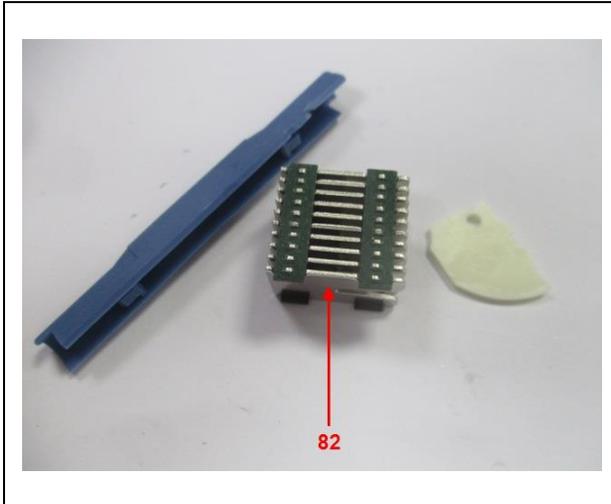
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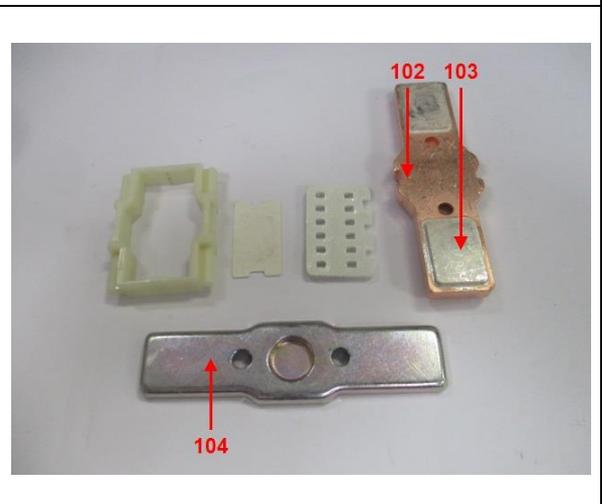
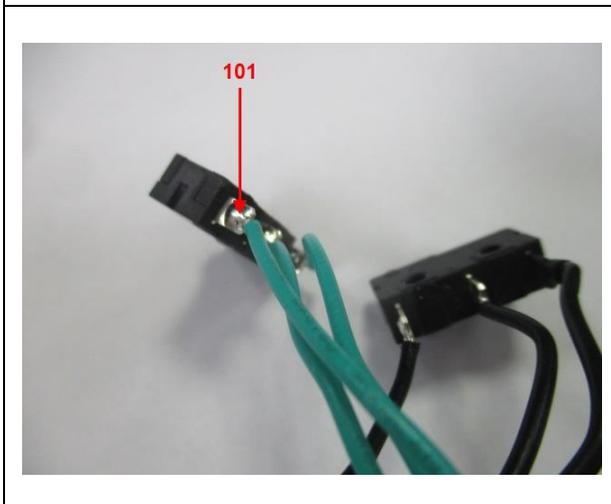
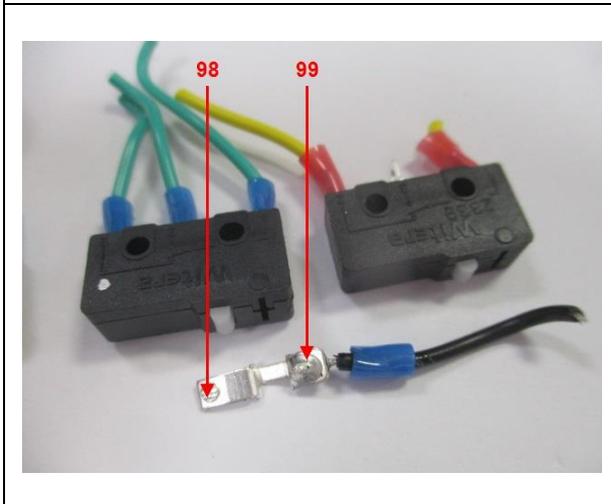
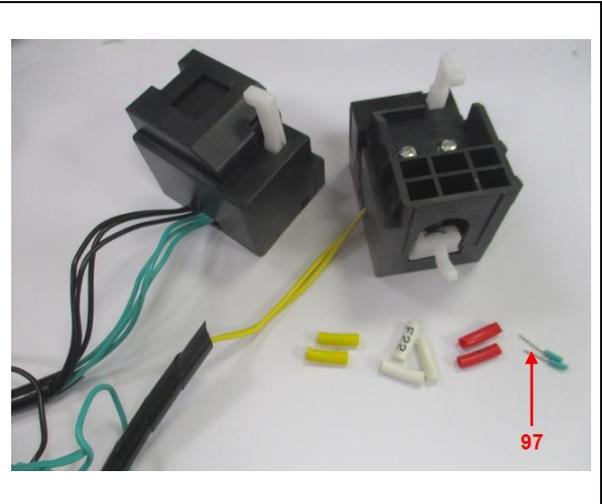
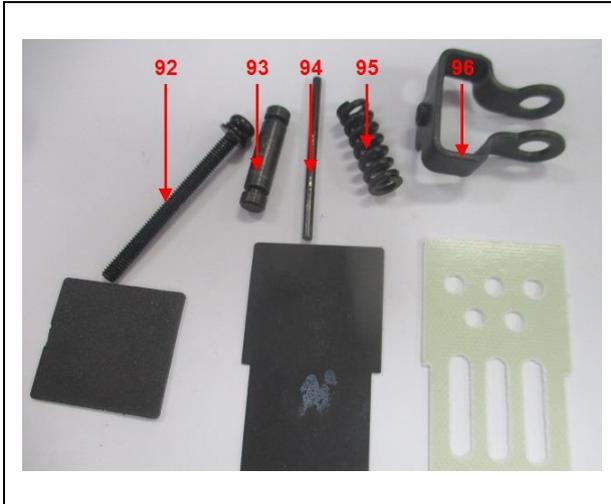
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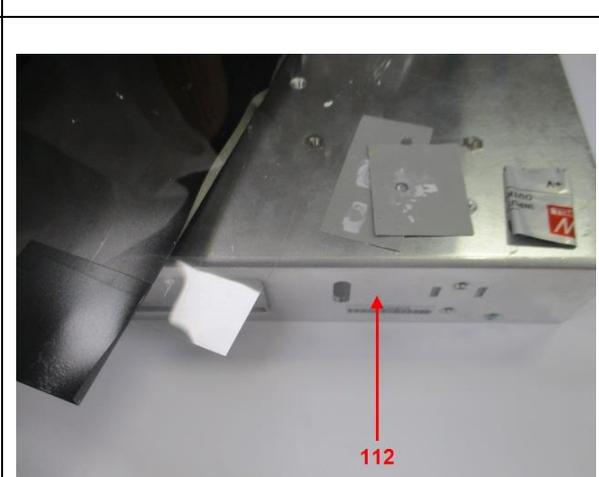
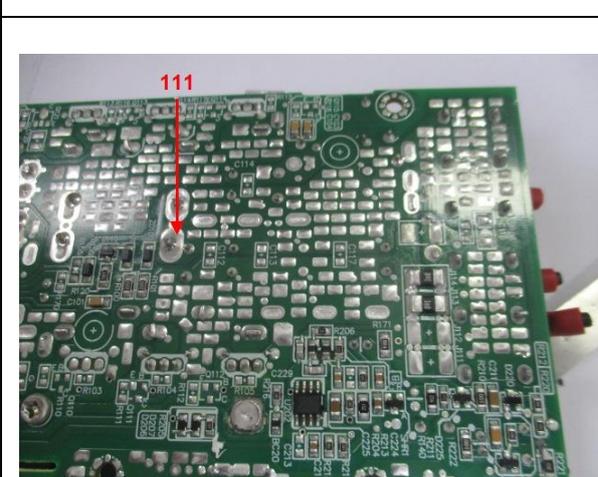
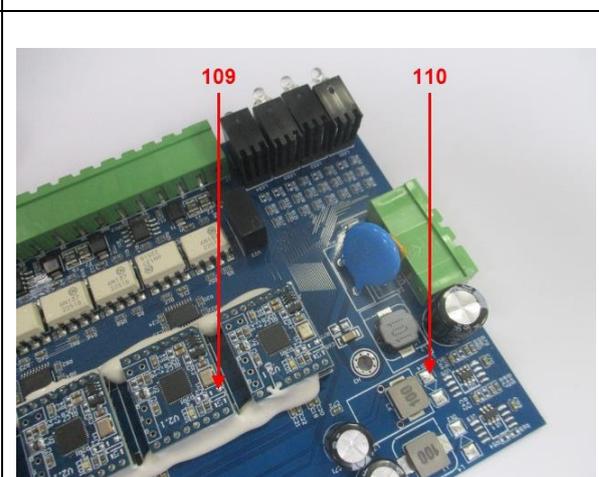
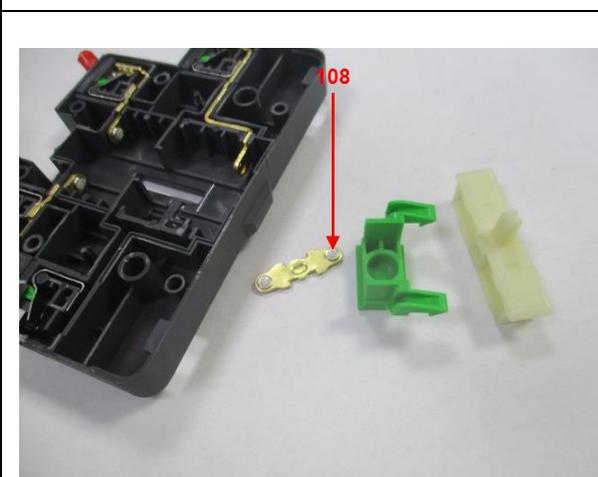
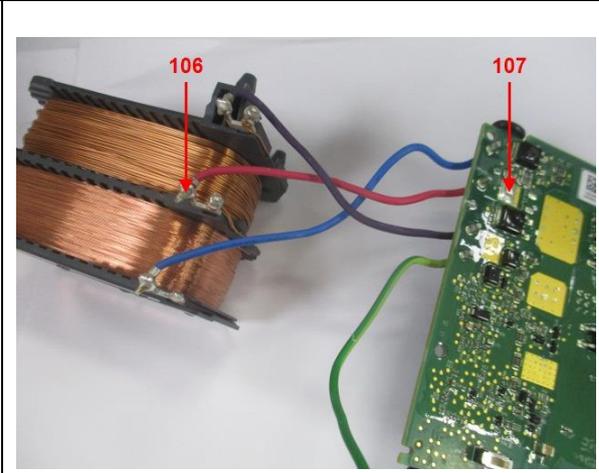
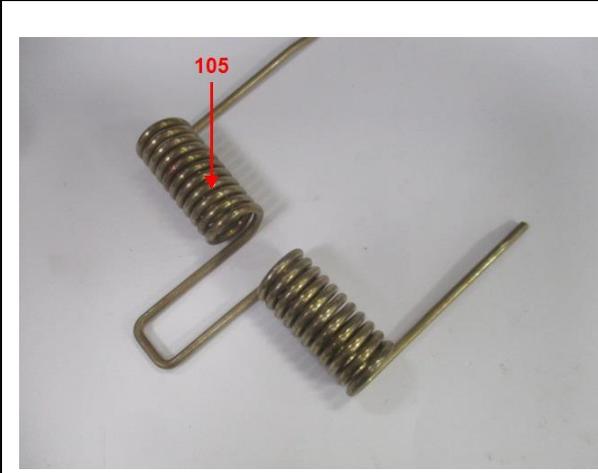
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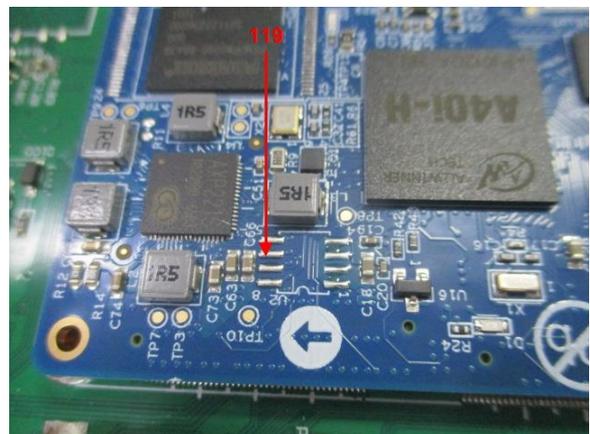
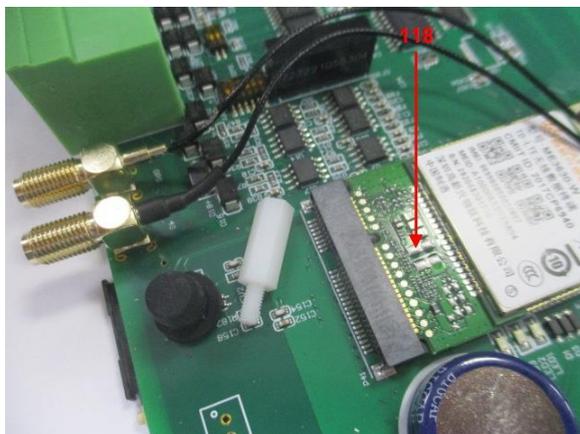
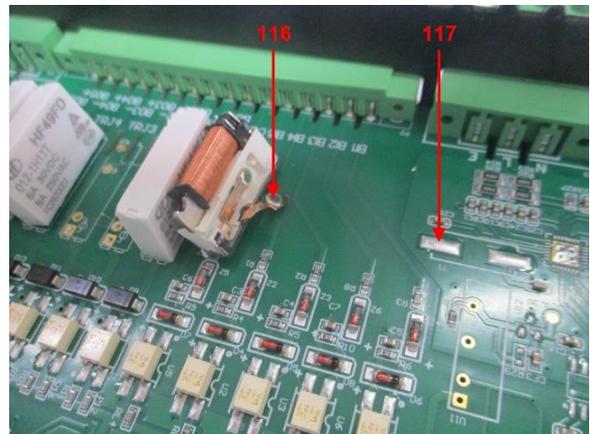
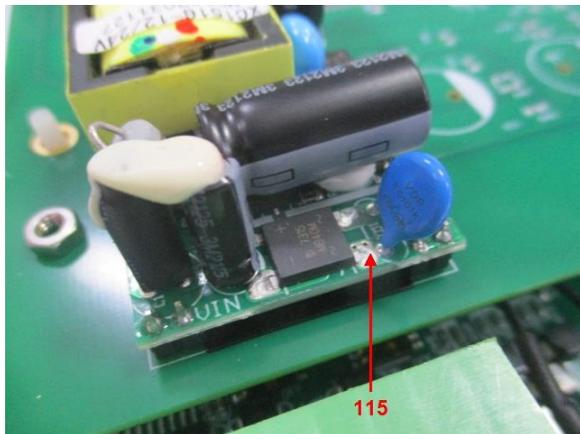
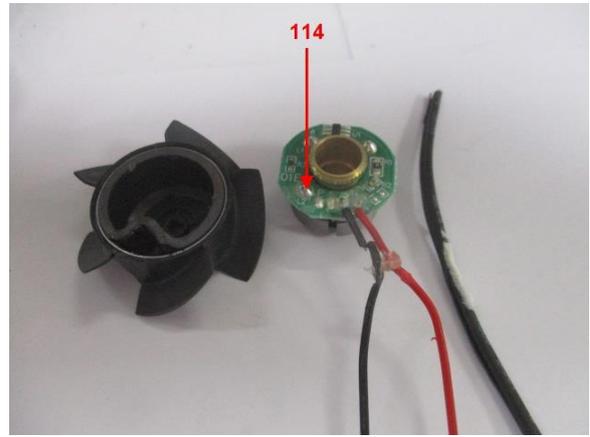
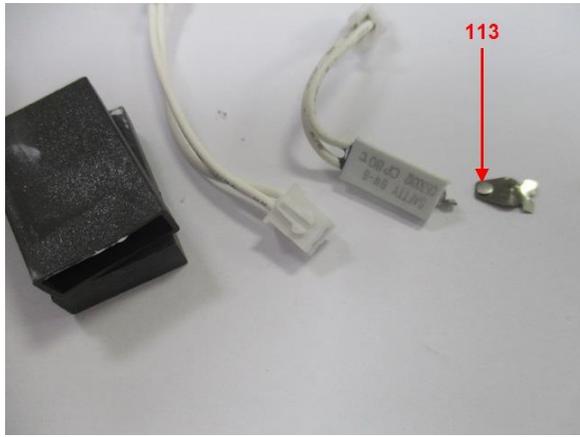
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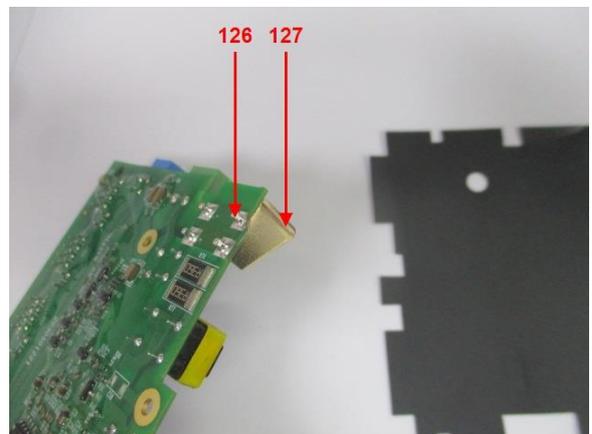
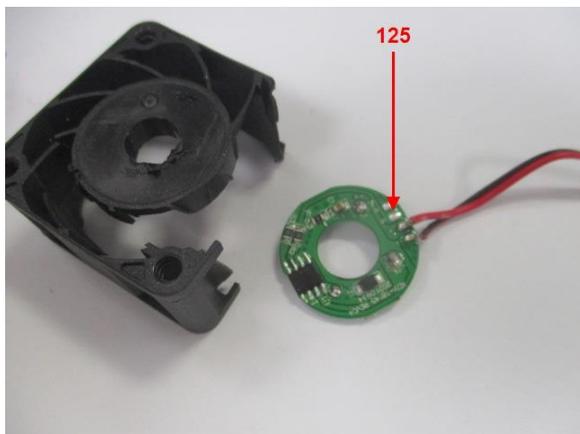
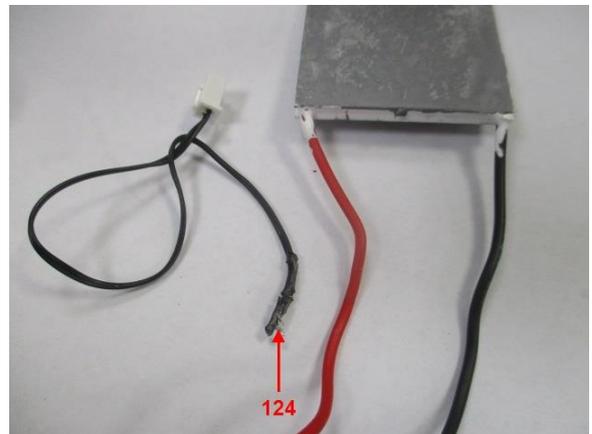
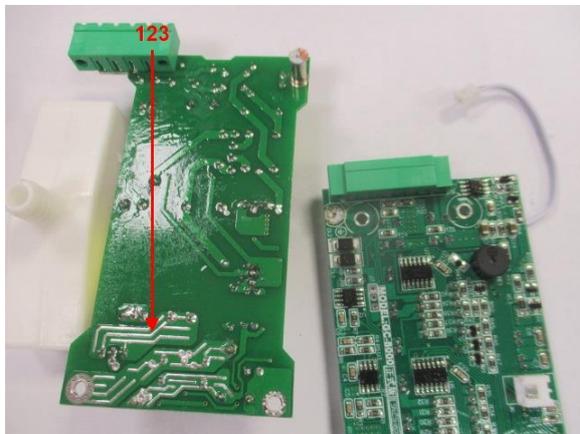
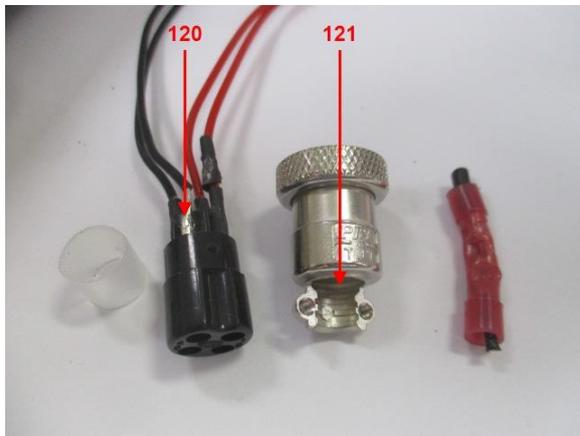
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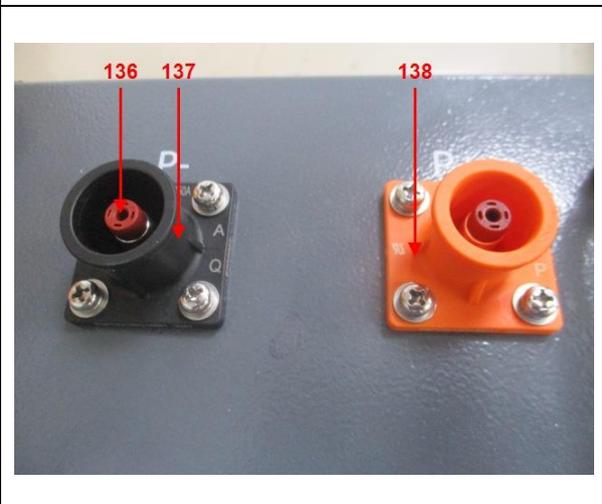
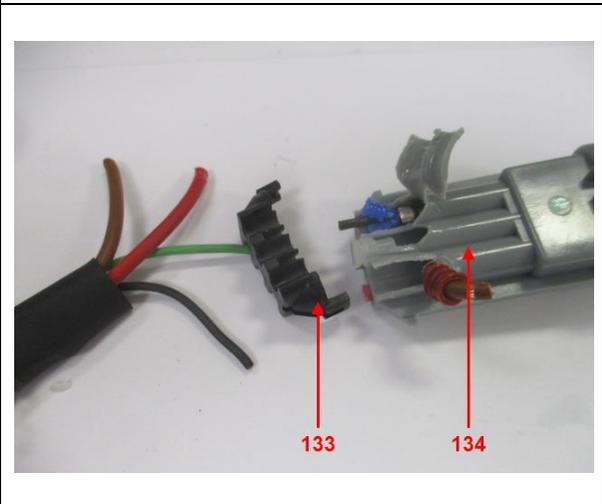
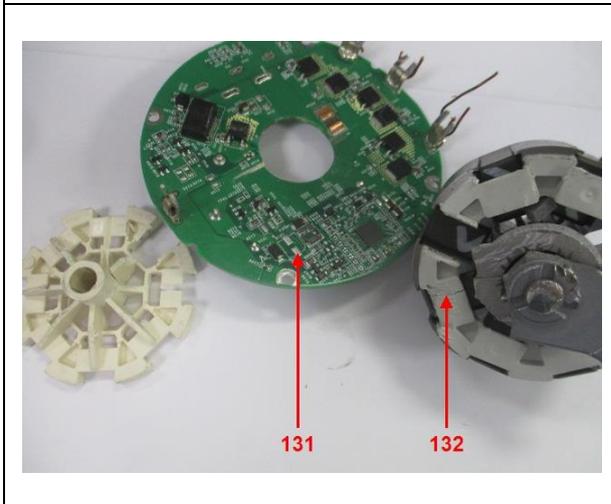
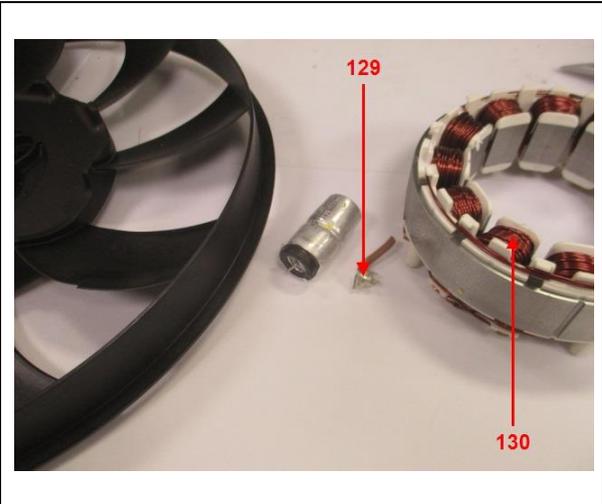
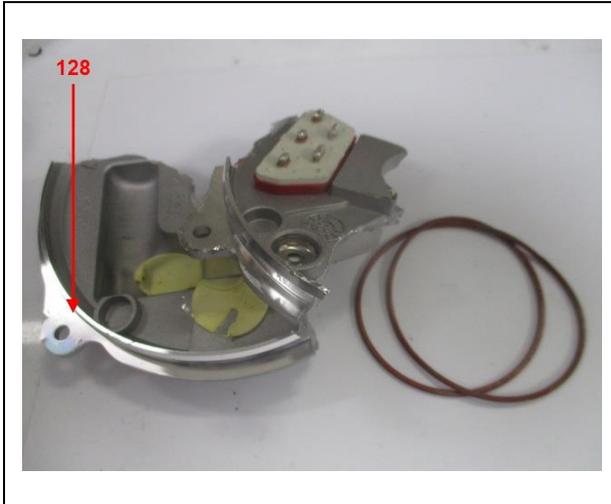
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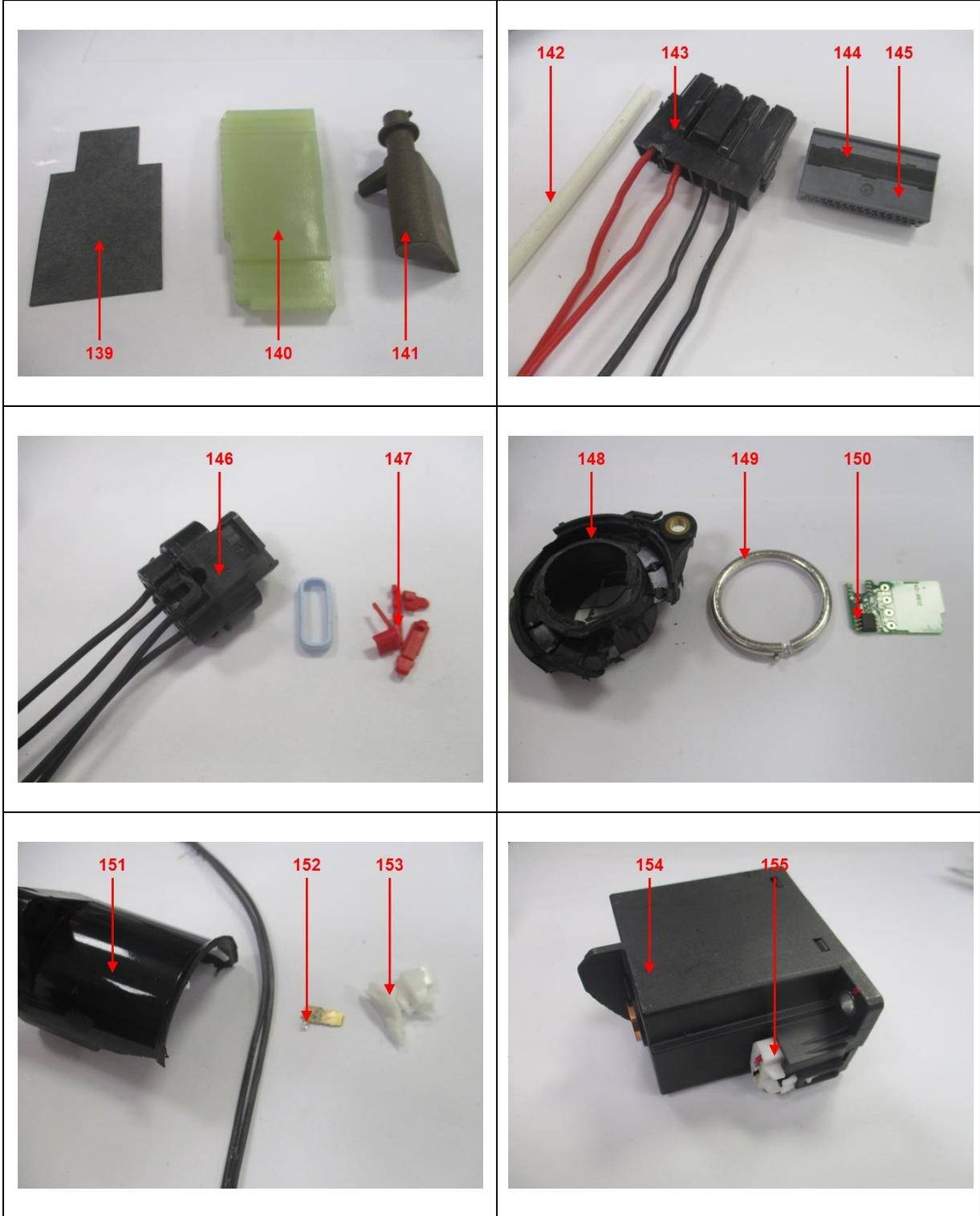
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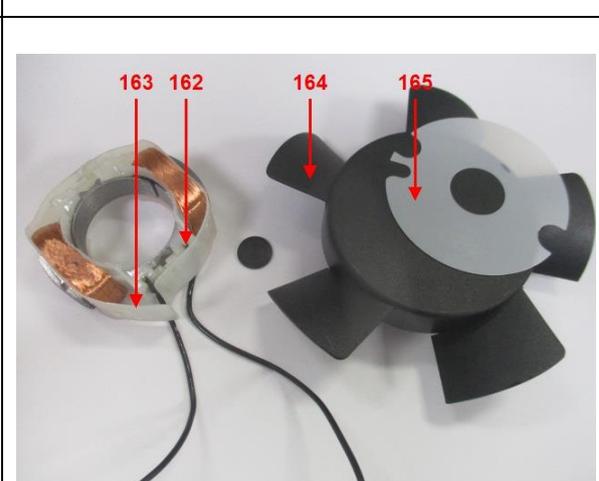
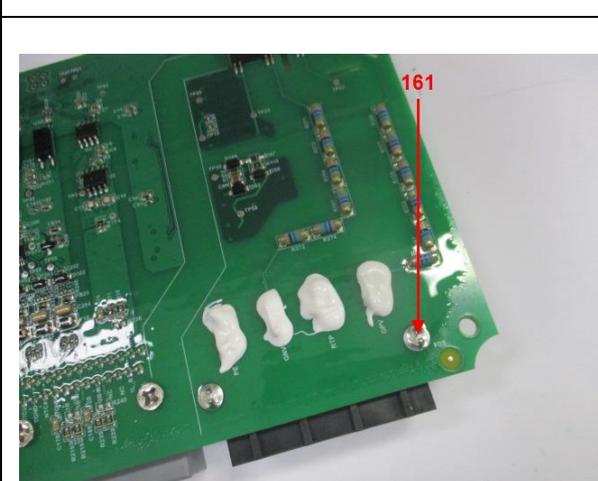
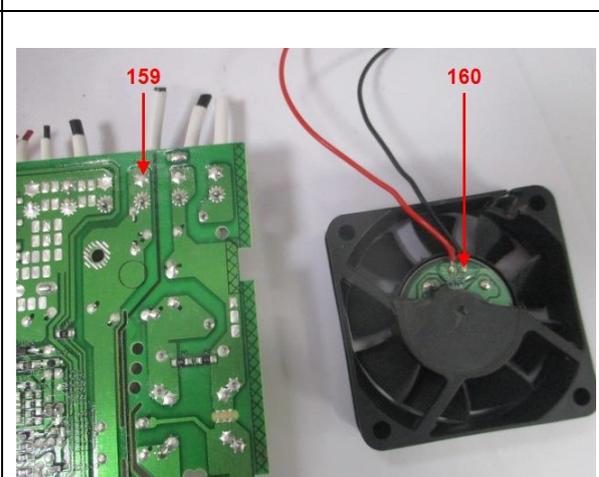
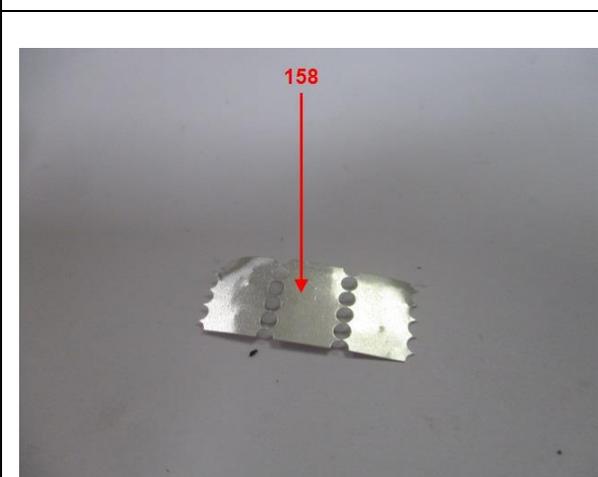
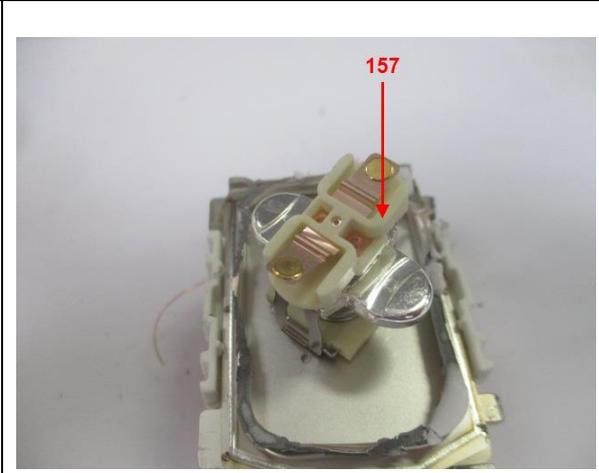
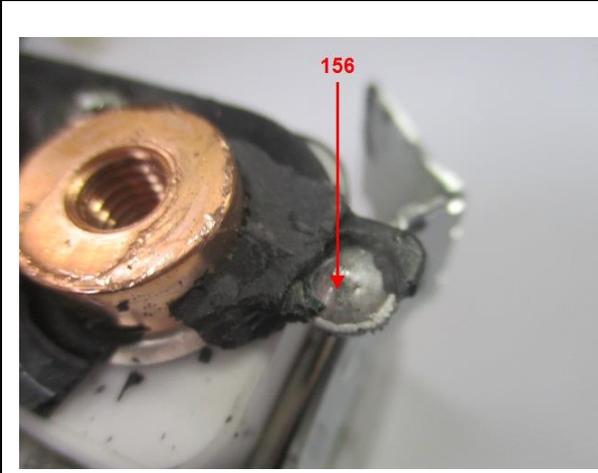
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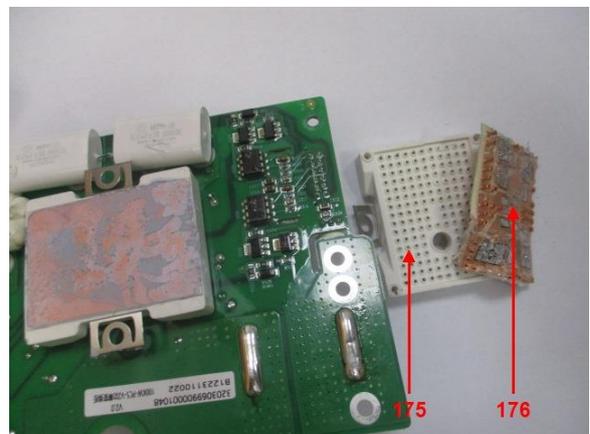
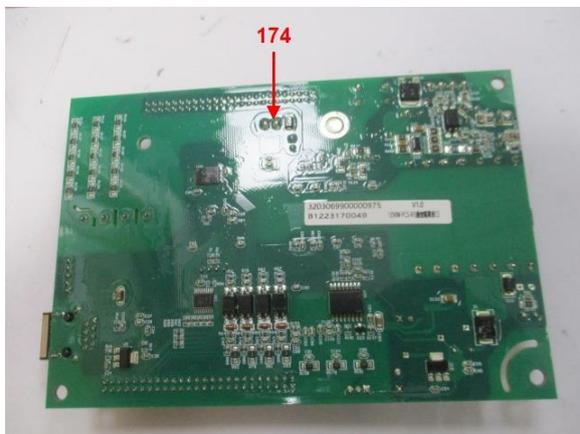
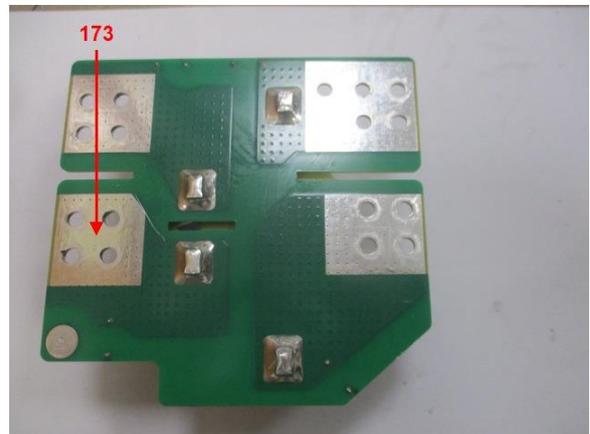
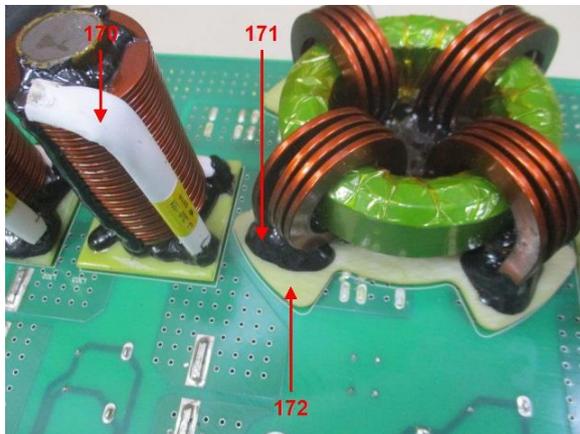
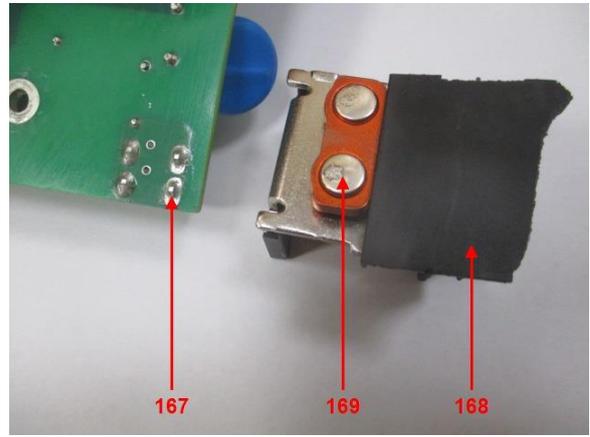
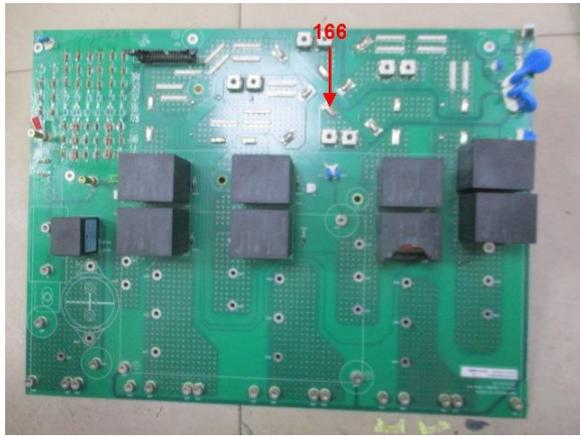
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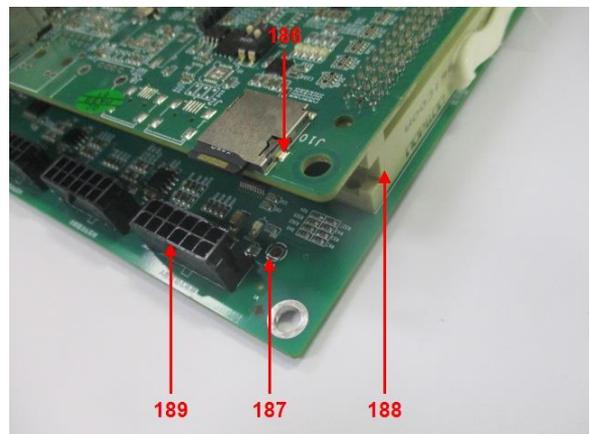
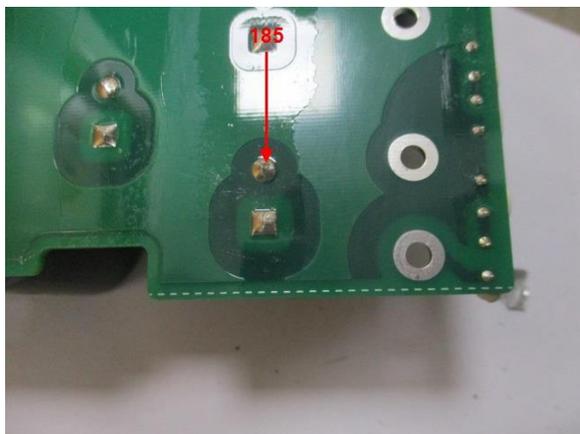
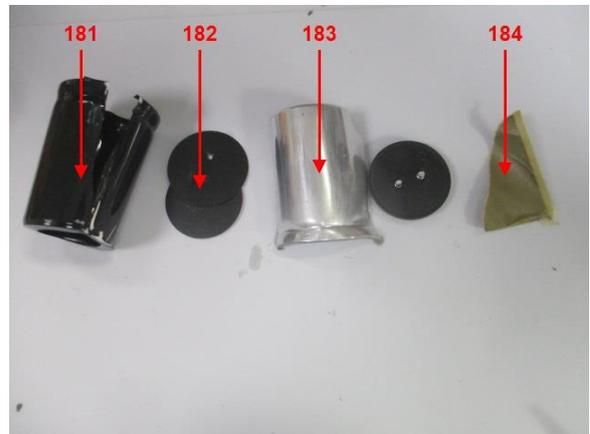
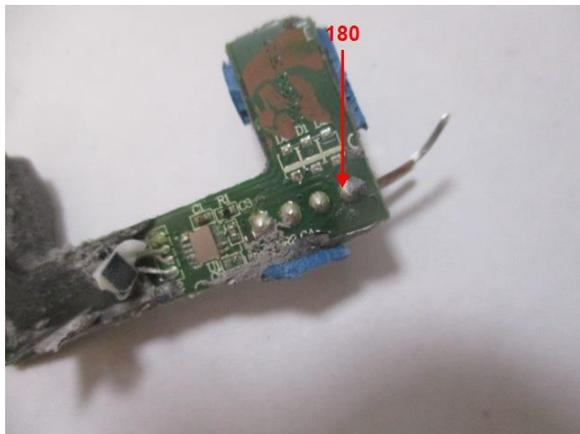
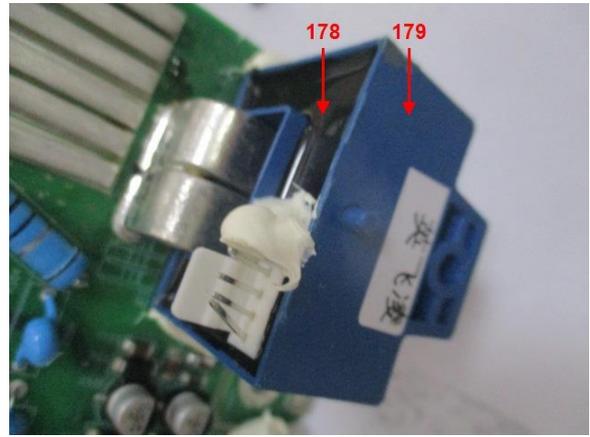
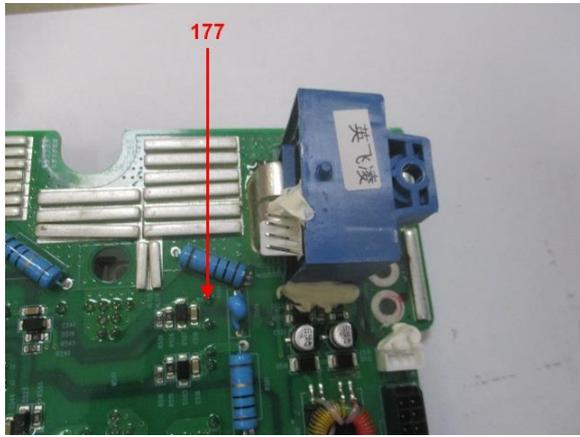
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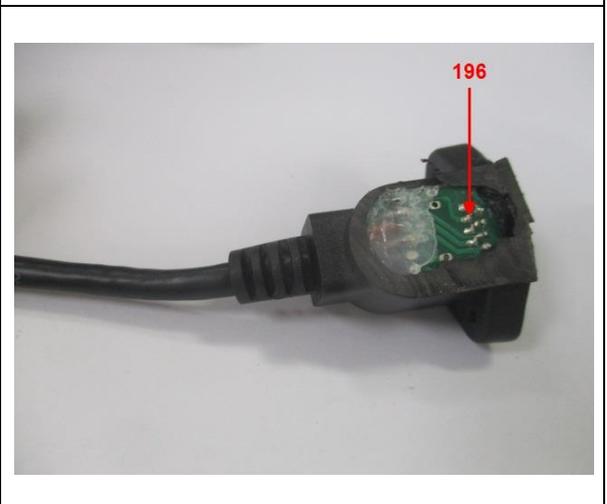
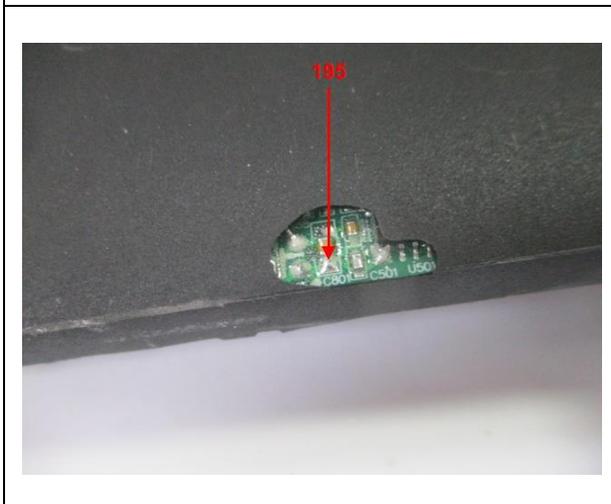
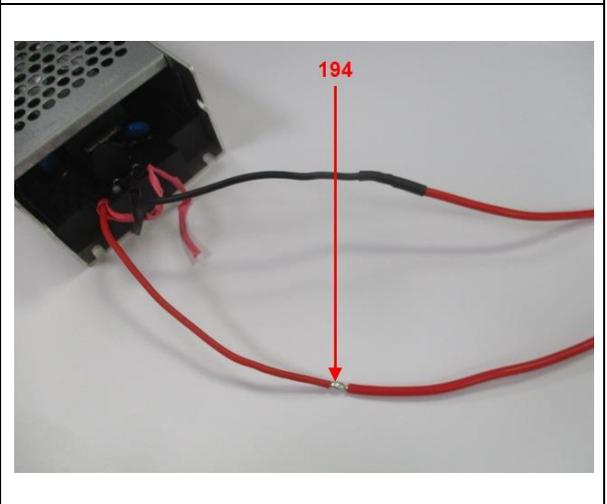
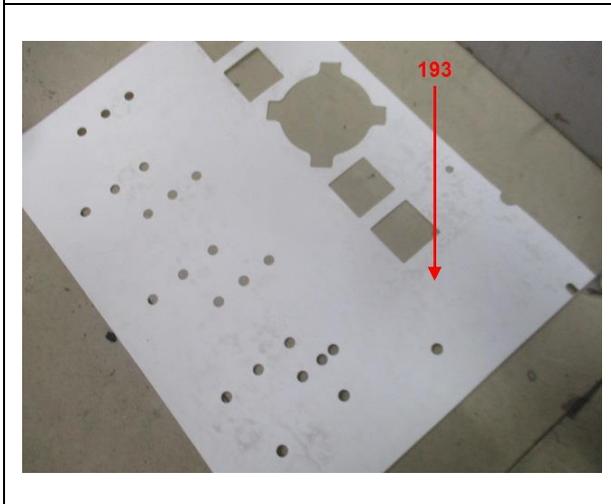
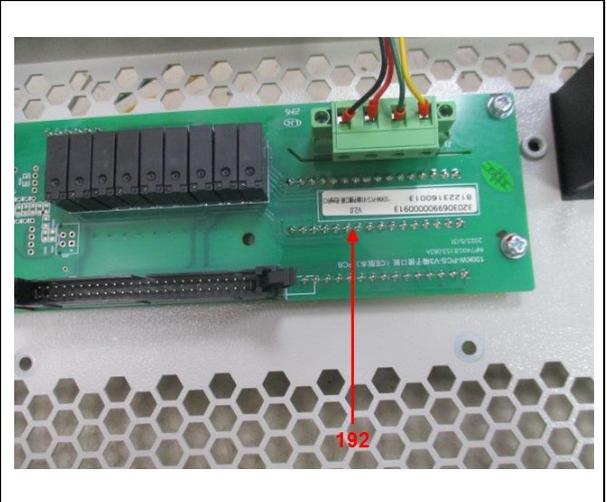
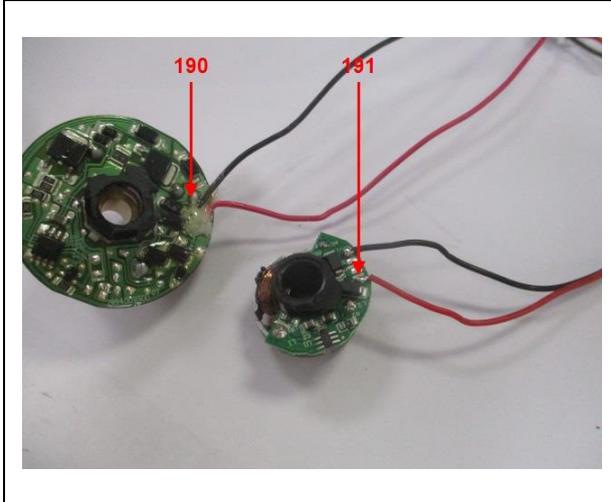
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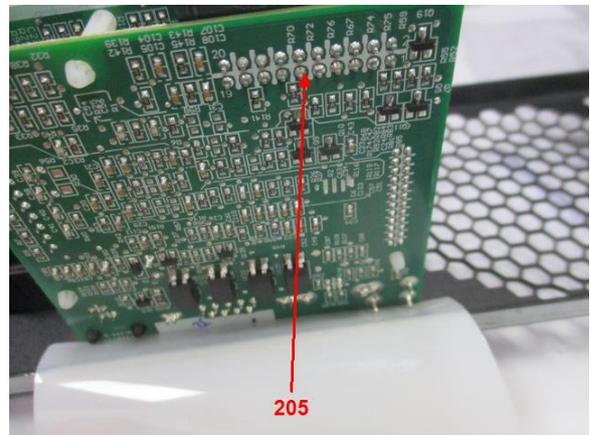
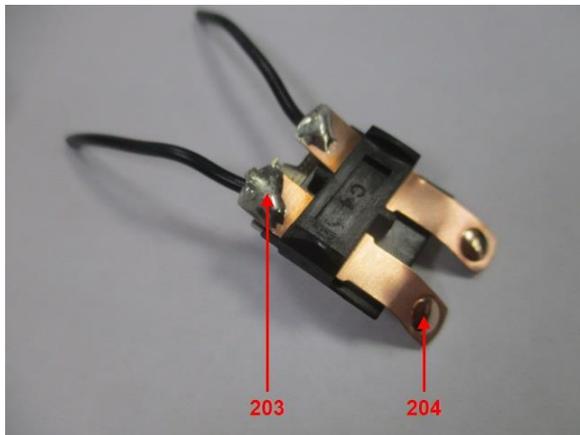
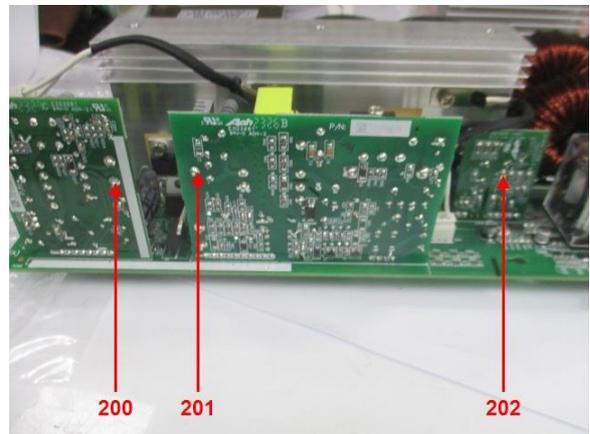
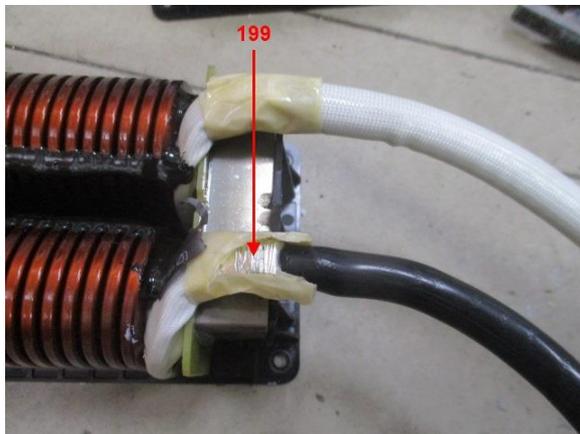
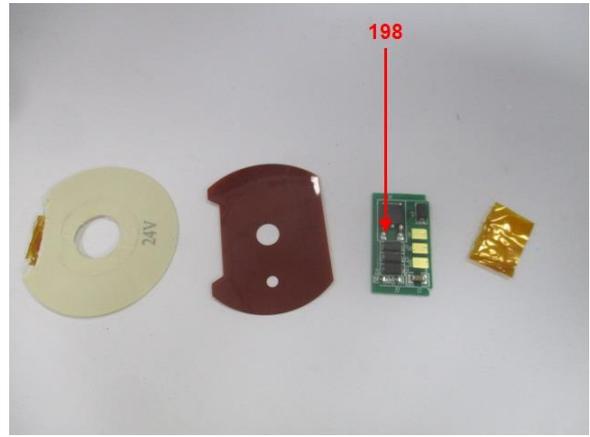
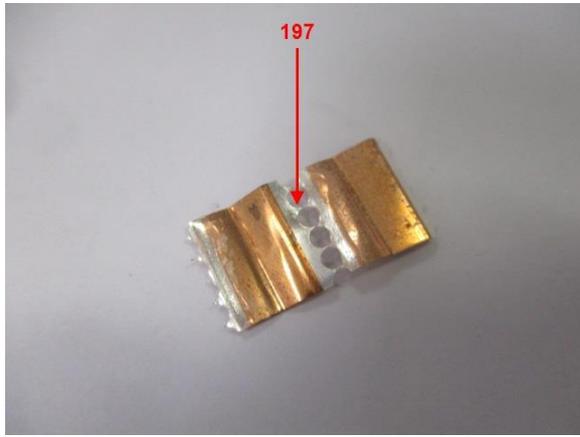
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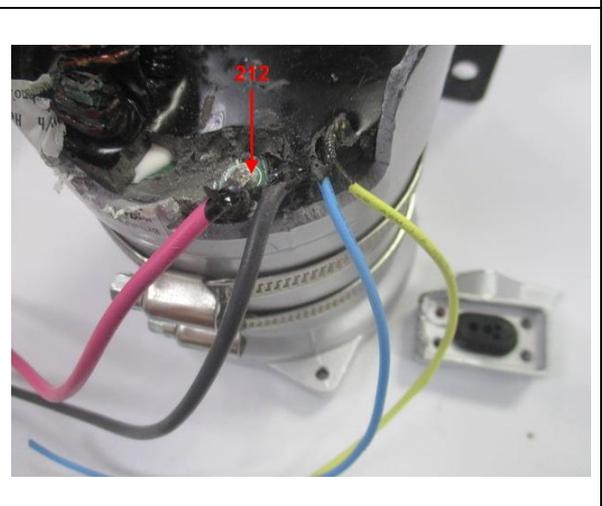
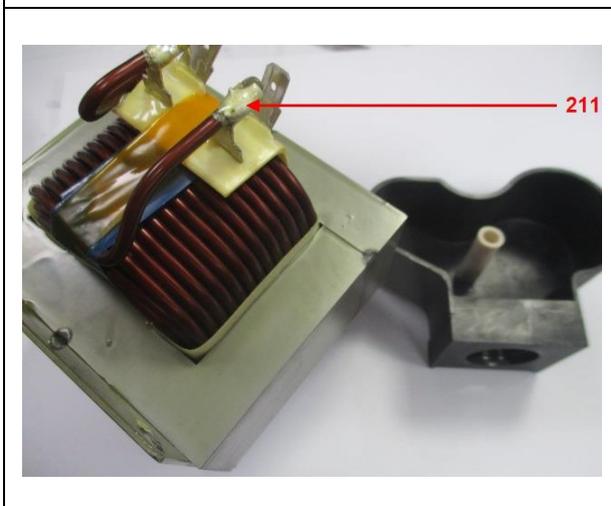
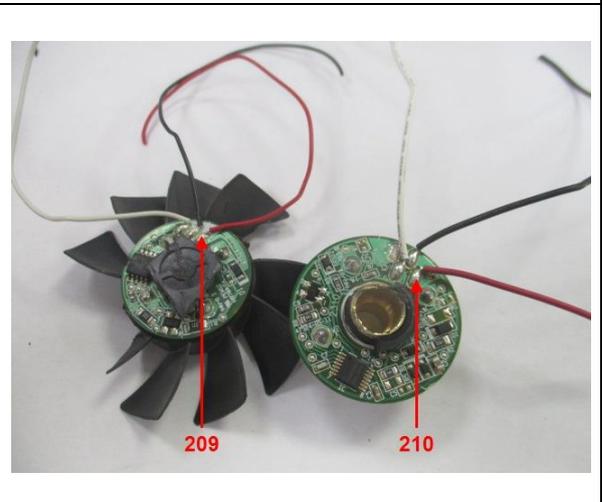
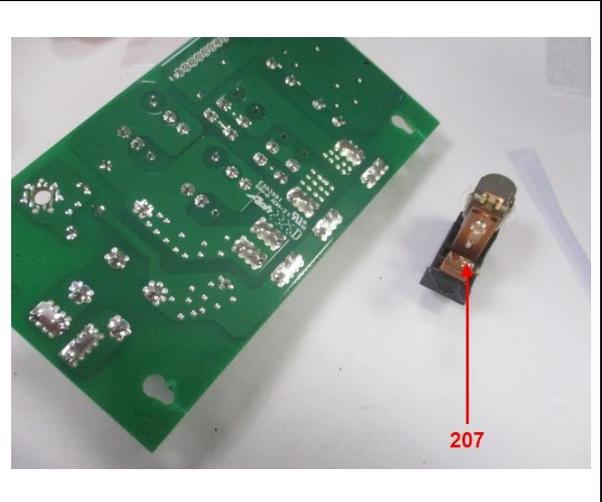
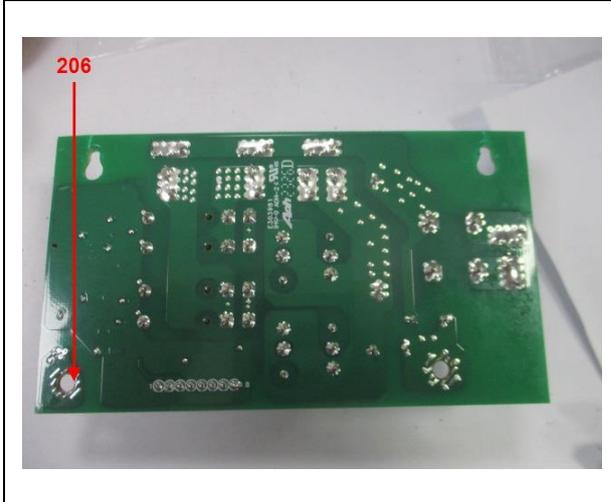
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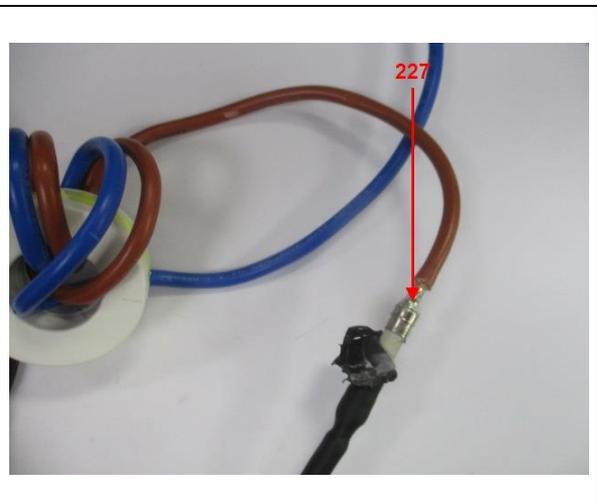
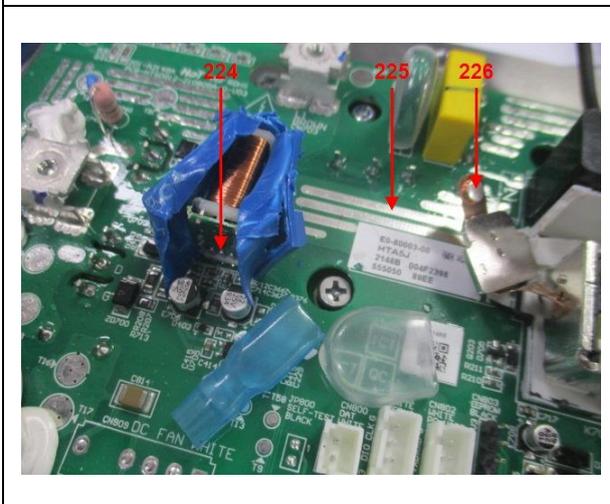
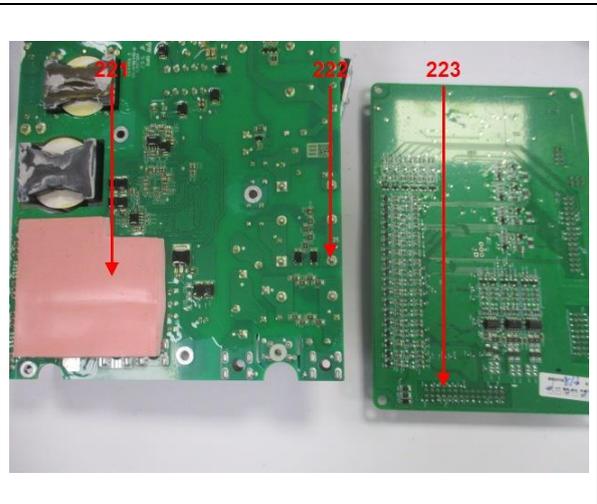
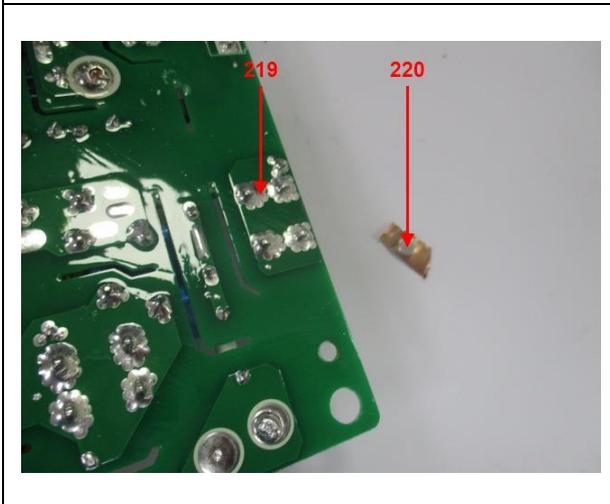
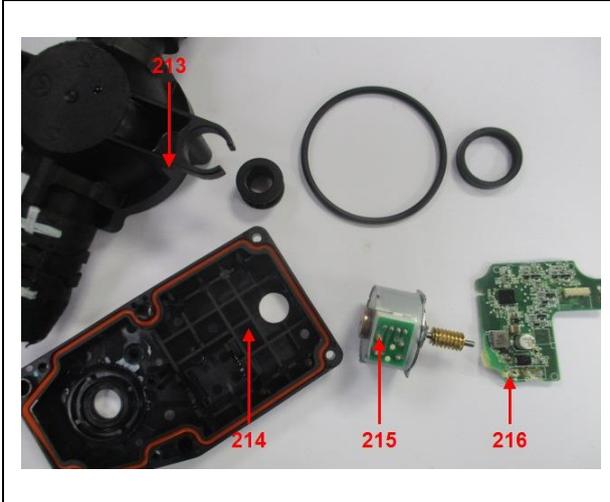
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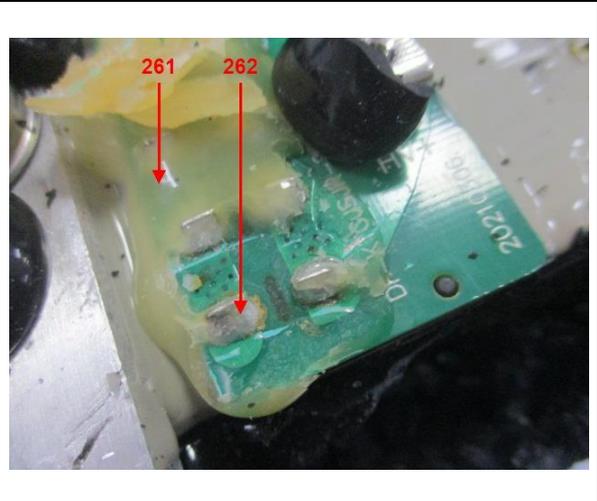
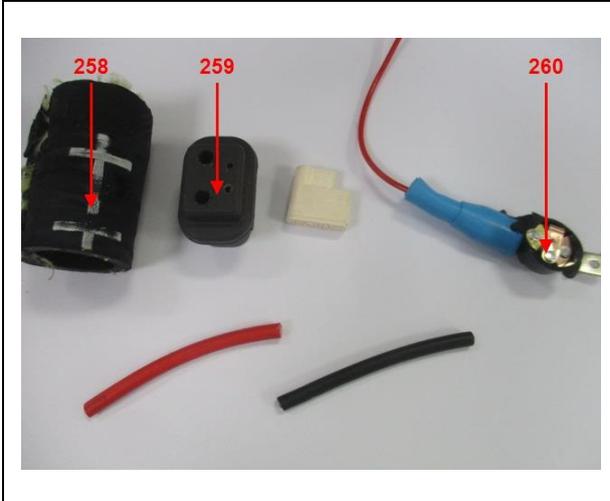
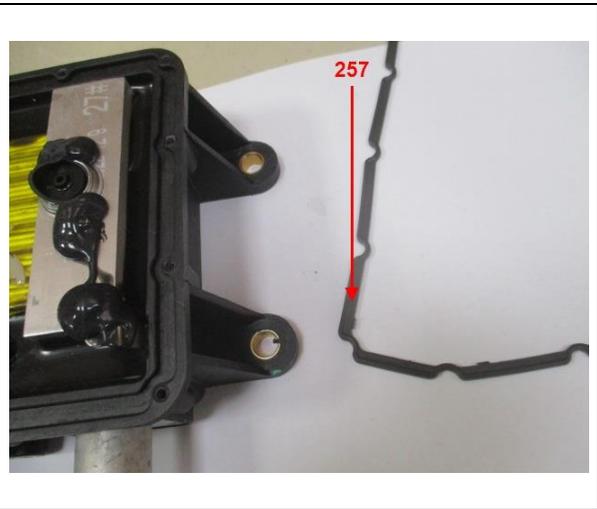
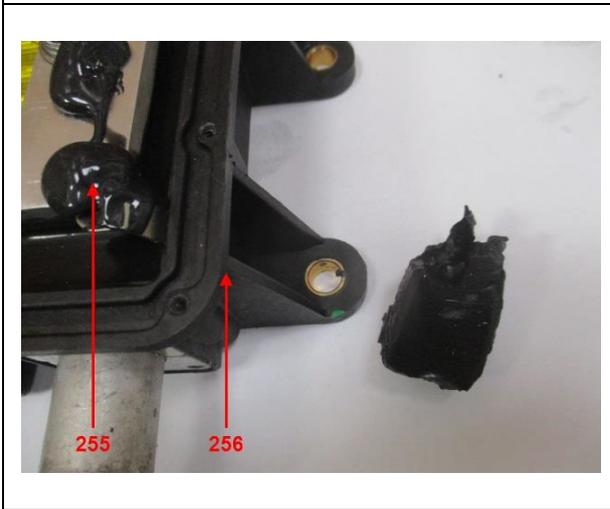
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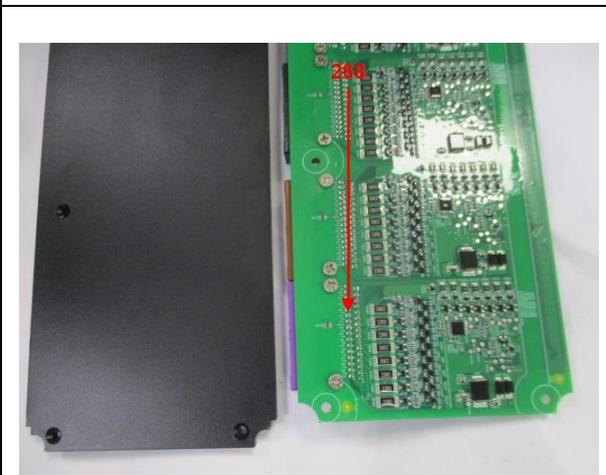
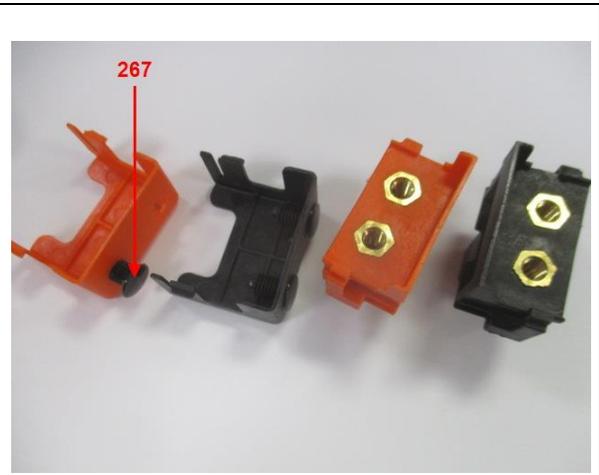
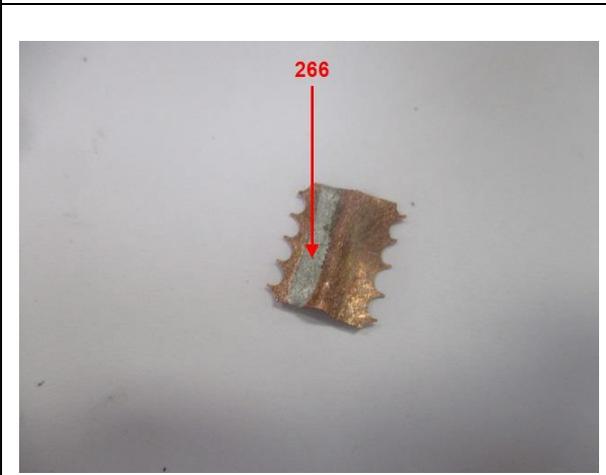
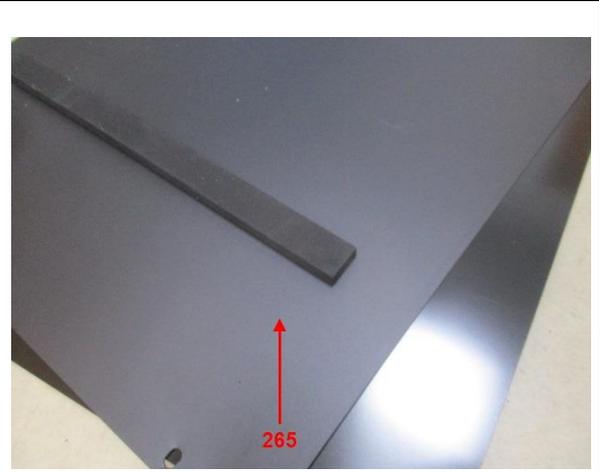
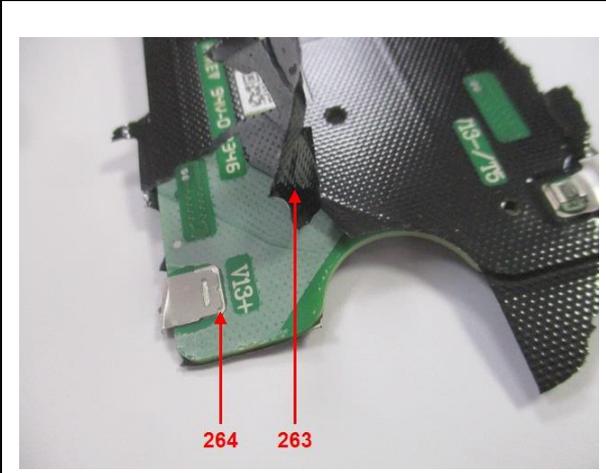
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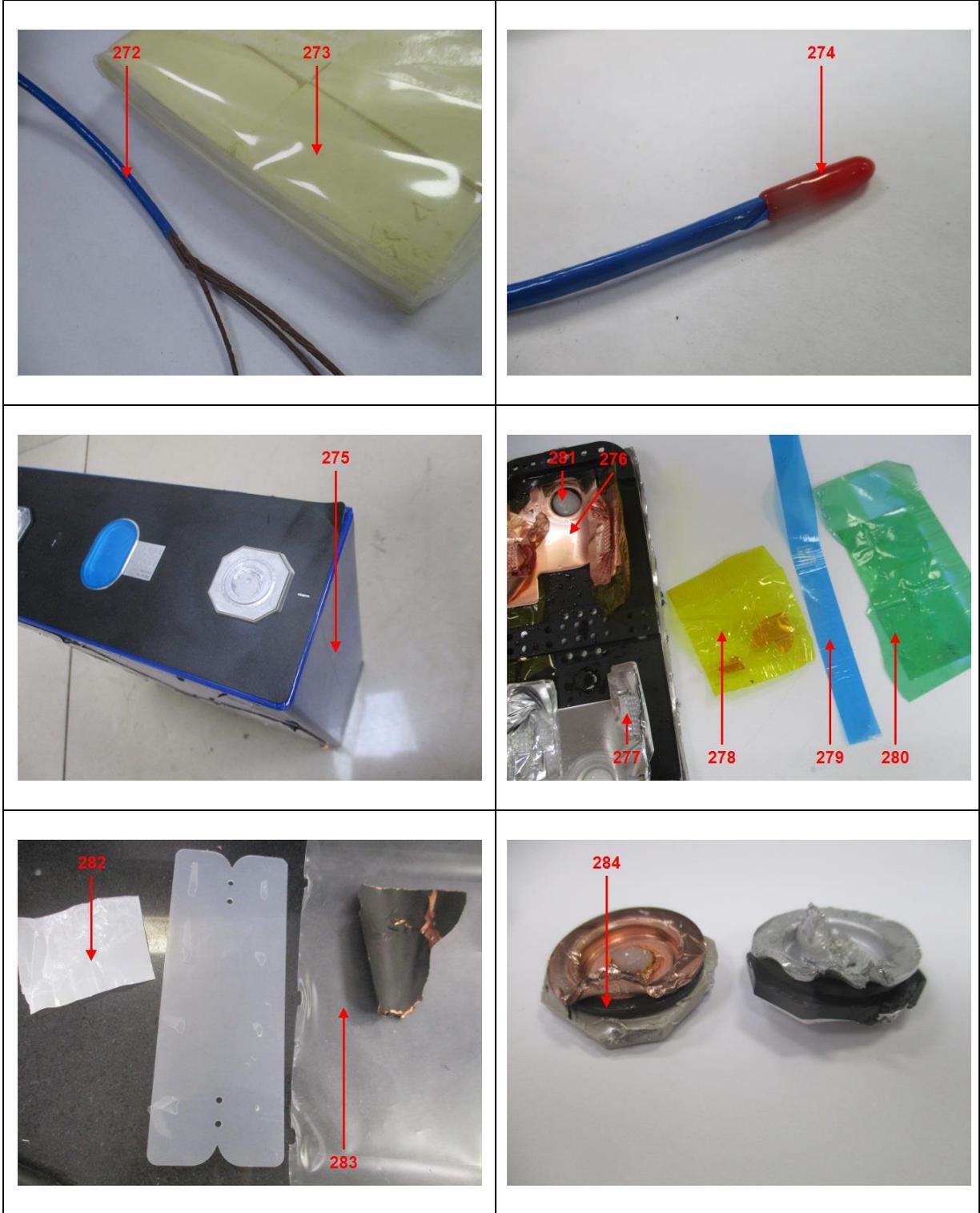
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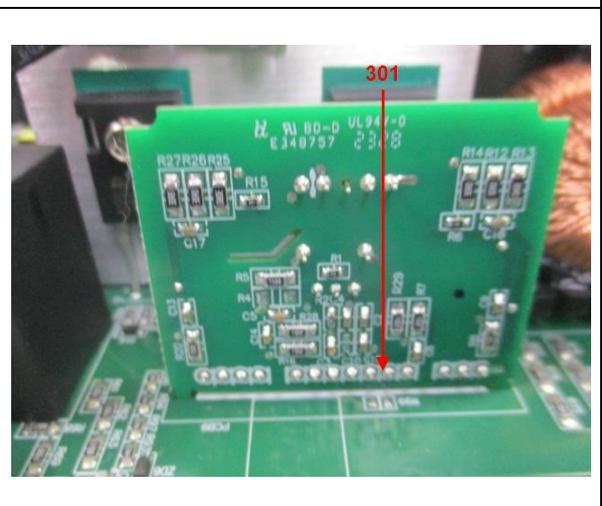
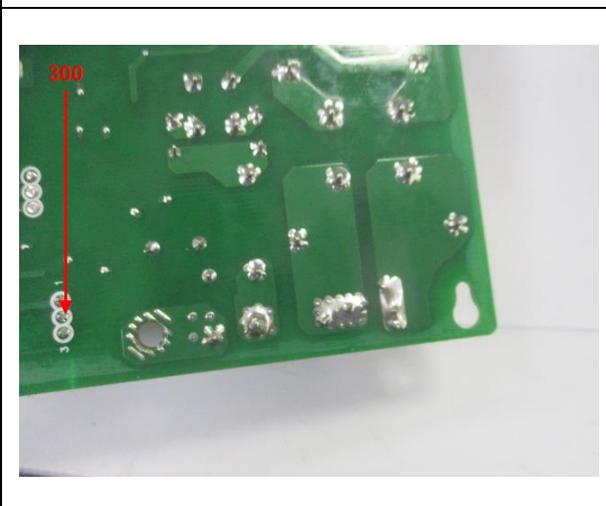
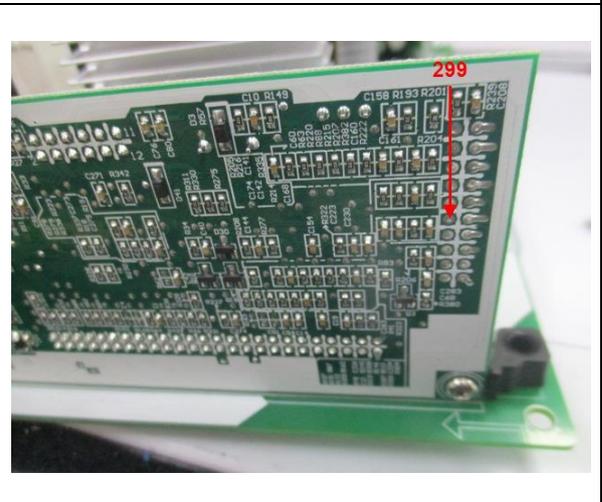
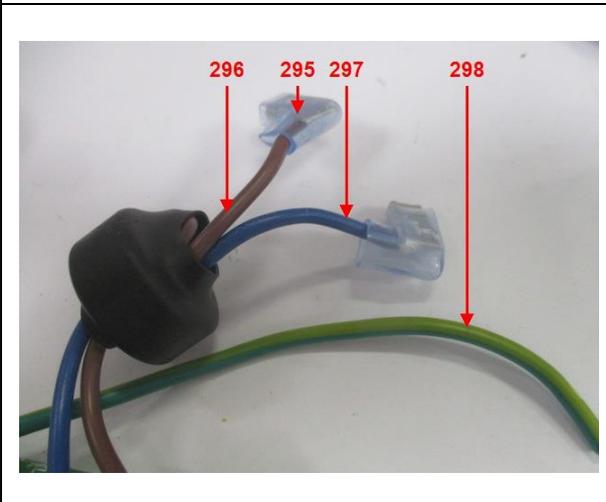
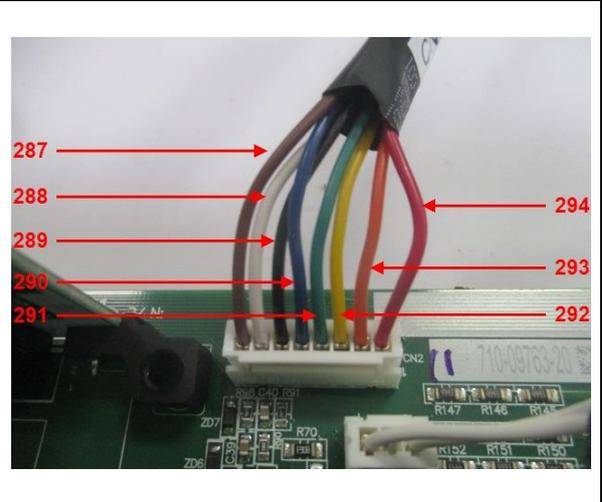
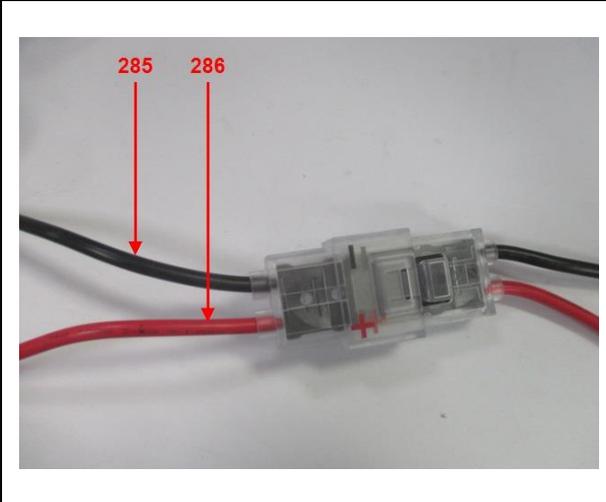
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APPENDIX

Candidate List of Substances of Very High Concern for authorization published by European Chemicals Agency (ECHA) Regarding Regulation (EC) No. 1907/2006 concerning REACH

No.	Substance name	CAS No.	EC No.	Detection Limit, %	Basis for identification as a SVHC
1	Triethyl arsenate*	15606-95-8	427-700-2	0.01	Carcinogenic
2	Anthracene	120-12-7	204-371-1	0.005	PBT
3	4,4'-Diaminodiphenyl methane (MDA)	101-77-9	202-974-4	0.005	Carcinogenic
4	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.005	Toxic for reproduction Endocrine disrupting properties
5	Cobalt dichloride*	7646-79-9	231-589-4	0.01	Carcinogenic
6	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.01	Carcinogenic
7	Diarsenic trioxide*	1327-53-3	215-481-4	0.01	Carcinogenic
8	Sodium dichromate*	7789-12-0 ⁽¹⁾ , 10588-01-9 ⁽²⁾	234-190-3	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
9	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.005	vPvB
10	Bis (2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.005	Toxic for reproduction
11	Hexabromo cyclododecane (HBCDD) and all major diastereoisomers identified: α - HBCDD β - HBCDD γ - HBCDD	3194-55-6 ⁽³⁾ , 25637-99-4 ⁽⁴⁾ 134237-50-6 134237-51-7 134237-52-8	247-148-4, 221-695-9	0.005	PBT
12	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (SCCP)	85535-84-8	287-476-5	0.01	PBT, vPvB
13	Bis(tributyltin)oxide (TBTO)**	56-35-9	200-268-0	0.005	PBT
14	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.01	Carcinogenic; Toxic for reproduction
15	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.005	Toxic for reproduction
16	2,4-Dinitrotoluene	121-14-2	204-450-0	0.005	Carcinogenic
17	Anthracene oil	90640-80-5	292-602-7	0.01	Carcinogenic, PBT, vPvB
18	Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	0.01	Carcinogenic; Mutagenic, PBT, vPvB
19	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.01	Carcinogenic; Mutagenic, PBT, vPvB
20	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.01	Carcinogenic; Mutagenic, PBT, vPvB
21	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.01	Carcinogenic; Mutagenic, PBT, vPvB
22	Diisobutyl phthalate	84-69-5	201-553-2	0.005	Toxic for reproduction
23	Aluminosilicate, Refractory Ceramic Fibres* ^a	Index no. 650-017-00-8		0.01	Carcinogenic
24	Zirconia Aluminosilicate, Refractory Ceramic Fibres* ^b	Index no. 650-017-00-8		0.01	Carcinogenic
25	Lead chromate*	7758-97-6	231-846-0	0.01	Carcinogenic; Toxic for reproduction
26	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)*	12656-85-8	235-759-9	0.01	Carcinogenic; Toxic for reproduction
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	215-693-7	0.01	Carcinogenic; Toxic for reproduction
28	Tris(2-chloroethyl) phosphate (TCEP)	115-96-8	204-118-5	0.005	Toxic for reproduction
29	Coal tar pitch, high temperature	65996-93-2	266-028-2	0.01	Carcinogenic, PBT, vPvB
30	Acrylamide	79-06-1	201-173-7	0.005	Carcinogenic; Mutagenic
31	Trichloroethylene	79-01-6	201-167-4	0.005	Carcinogenic



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No.	Substance name	CAS No.	EC No.	Detection Limit, %	Basis for identification as a SVHC
32	Boric acid*	10043-35-3, 11113-50-1	233-139-2 / 234-343-4	0.01	Toxic for reproduction
33	Disodium tetraborate, anhydrous*	1330-43-3(5), 12179-04-3(6), 1303-96-4(7)	215-540-4	0.01	Toxic for reproduction
34	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	0.01	Toxic for reproduction
35	Sodium chromate*	7775-11-3	231-889-5	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
36	Potassium chromate*	7789-00-6	232-140-5	0.01	Carcinogenic; Mutagenic
37	Ammonium dichromate*	7789-09-5	232-143-1	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
38	Potassium dichromate*	7778-50-9	231-906-6	0.01	Carcinogenic; Mutagenic; Toxic for reproduction
39	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.01	Carcinogenic; Toxic for reproduction
40	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.01	Carcinogenic; Toxic for reproduction
41	Cobalt(II) carbonate*	513-79-1	208-169-4	0.01	Carcinogenic; Toxic for reproduction
42	Cobalt(II) diacetate*	71-48-7	200-755-8	0.01	Carcinogenic; Toxic for reproduction
43	2-Methoxyethanol	109-86-4	203-713-7	0.005	Toxic for reproduction
44	2-Ethoxyethanol	110-80-5	203-804-1	0.005	Toxic for reproduction
45	Chromium trioxide*	1333-82-0	215-607-8	0.01	Carcinogenic; Mutagenic
46	Acid generated from chromium trioxide and their oligomers: Chromic acid* Dichromic acid* Oligomers of chromic acid and dichromic acid*	7738-94-5 13530-68-2 -	231-801-5 236-881-5 -	0.01	Carcinogenic
47	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.005	Toxic for reproduction
48	Strontium Chromate*	7789-06-2	232-142-6	0.01	Carcinogenic
49	1,2-benzenedicarboxylic acid, di-C7-11 branched alkyl ester and linear alkyl ester	68515-42-4	271-084-6	0.005	Toxic for reproduction
50	Hydrazine	302-01-2 7803-57-8	206-114-9	0.005	Carcinogenic
51	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.005	Toxic for reproduction
52	1,2,3-trichloropropane	96-18-4	202-486-1	0.005	Toxic for reproduction
53	1,2-benzenedicarboxylic acid, di-C6-8-branched alkyl ester, C7-rich (DIHP)	71888-89-6	276-158-1	0.005	Toxic for reproduction
54	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.01	Carcinogenic
55	Potassium hydroxyoctaoxidizincatedichromate*	11103-86-9	234-329-8	0.01	Carcinogenic
56	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.01	Carcinogenic
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.005	Carcinogenic
58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.005	Toxic for reproduction
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.005	Carcinogenic
60	4-(1,1,3,3-tetramethylbutyl)phenol, (4-tert-Octylphenol)	140-66-9	205-426-2	0.005	Equivalent level of concern
61	1,2-Dichloroethane	107-06-2	203-458-1	0.005	Carcinogenic
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005	Toxic for reproduction



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No.	Substance name	CAS No.	EC No.	Detection Limit, %	Basis for identification as a SVHC
63	Arsenic acid*	7778-39-4	231-901-9	0.01	Carcinogenic
64	Calcium arsenate*	7778-44-1	231-904-5	0.01	Carcinogenic
65	Trilead diarsenate*	3687-31-8	222-979-5	0.01	Carcinogenic; Toxic for reproduction
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005	Toxic for reproduction
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005	Carcinogenic
68	Phenolphthalein	77-09-8	201-004-7	0.005	Carcinogenic
69	Lead azide, Lead diazide*	13424-46-9	236-542-1	0.01	Toxic for reproduction
70	Lead styphnate*	15245-44-0	239-290-0	0.01	Toxic for reproduction
71	Lead dipicrate*	6477-64-1	229-335-2	0.01	Toxic for reproduction
72	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.005	Toxic for reproduction
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.005	Toxic for reproduction
74	Diboron trioxide*	1303-86-2	215-125-8	0.01	Toxic for reproduction
75	Formamide	75-12-7	200-842-0	0.01	Toxic for reproduction
76	Lead(II) bis(methanesulfonate)*	17570-76-2	401-750-5	0.01	Toxic for reproduction
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) §	2451-62-9	219-514-3	0.005	Mutagenic
78	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) §	59653-74-6	423-400-0	0.005	Mutagenic
79	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	202-027-5	0.005	Carcinogenic
80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.005	Carcinogenic
81	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.005	Carcinogenic
82	[4-[[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	0.005	Carcinogenic
83	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.01	Carcinogenic
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.005	Carcinogenic
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.005	Persistent, bioaccumulative and toxic; very persistent and very bioaccumulative
86	N,N-dimethylformamide; dimethyl formamide	68-12-2	200-679-5	0.005	Toxic for reproduction
87	Methoxy acetic acid	625-45-6	210-894-6	0.005	Toxic for reproduction ; equivalent level of concern
88	Dibutyltin dichloride (DBT)*	683-18-1	211-670-0	0.01	Toxic for reproduction
89	1,2-Diethoxyethane	629-14-1	211-076-1	0.005	Toxic for reproduction
90	Hexahydro-2-benzofuran-1,3-dione (HHPA), cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	201-604-9, 236-086-3, 238-009-9	0.01	Equivalent level of concern having probable serious effects to human health
91	Hexahydrodimethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.01	Equivalent level of concern having probable serious effects to human health



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No.	Substance name	CAS No.	EC No.	Detection Limit, %	Basis for identification as a SVHC
92	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	-	-	0.005	Equivalent level of concern having probable serious effects to human health
93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.005	Very persistent and very bioaccumulative
94	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear+	84777-06-0	284-032-2	0.005	Toxic for reproduction
95	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.005	Very persistent and very bioaccumulative
96	N-pentyl-isopentylphthalate (iPnPP)+	776297-69-9	-	0.005	Toxic for reproduction
97	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.005	Very persistent and very bioaccumulative
98	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated - covering well-defined substances and UVCB substances, polymers and homologues	-	-	0.005	Equivalent level of concern
99	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.005	Very persistent and very bioaccumulative
100	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.01	Toxic for reproduction
101	Lead tetroxide (orange lead)*	1314-41-6	215-235-6	0.01	Toxic for reproduction
102	Diethyl sulphate	64-67-5	200-589-6	0.005	Carcinogenic; Mutagenic
103	Dinoseb	88-85-7	201-861-7	0.005	Toxic for reproduction
104	Lead Titanium Zirconium Oxide*	12626-81-2	235-727-4	0.01	Toxic for reproduction
105	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.01	Toxic for reproduction
106	Furan	110-00-9	203-727-3	0.01	Carcinogenic
107	N-methylacetamide	79-16-3	201-182-6	0.005	Toxic for reproduction
108	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.005	Carcinogenic
109	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.01	Toxic for reproduction
110	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.005	Carcinogenic; Mutagenic
111	[Phthalato(2-)]dioxotrilead (Dibasic lead phthalate)*	69011-06-9	273-688-5	0.01	Toxic for reproduction
112	Lead titanium trioxide*	12060-00-3	235-038-9	0.01	Toxic for reproduction
113	Lead oxide sulphate*	12036-76-9	234-853-7	0.01	Toxic for reproduction
114	Lead dinitrate*	10099-74-8	233-245-9	0.01	Toxic for reproduction
115	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.005	Carcinogenic
116	Lead cyanamidate*	20837-86-9	244-073-9	0.01	Toxic for reproduction
117	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.01	Toxic for reproduction
118	4-methyl-m-phenylenediamine (2,4-toluenediamine)	95-80-7	202-453-1	0.005	Carcinogenic
119	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.01	Toxic for reproduction
120	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	215-290-6	0.01	Toxic for reproduction
121	Dimethyl sulphate	77-78-1	201-058-1	0.005	Carcinogenic
122	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.01	Toxic for reproduction
123	Silicic acid, barium salt, lead-doped*	68784-75-8	272-271-5	0.01	Toxic for reproduction
124	Biphenyl-4-ylamine	92-67-1	202-177-1	0.005	Carcinogenic
125	Lead oxide (lead monoxide)*	1317-36-8	215-267-0	0.01	Toxic for reproduction
126	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.01	Toxic for reproduction
127	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.01	Carcinogenic; Mutagenic



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128	Silicic acid, lead salt*	11120-22-2	234-363-3	0.01	Toxic for reproduction
129	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.01	Toxic for reproduction
130	o-aminoazotoluene	97-56-3	202-591-2	0.005	Carcinogenic
131	1-bromopropane	106-94-5	203-445-0	0.01	Toxic for reproduction
132	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.005	Carcinogenic
133	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.005	Carcinogenic
134	Tetraethyllead*	78-00-2	201-075-4	0.01	Toxic for reproduction
135	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.01	Toxic for reproduction
136	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.01	Toxic for reproduction
137	Diisopentylphthalate+	605-50-5	210-088-4	0.005	Toxic for reproduction
138	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.01	Equivalent level of concern having probable serious effects to human health
139	Cadmium	7440-43-9	231-152-8	0.01	Carcinogenic; Equivalent level of concern
140	Cadmium oxide*	1306-19-0	215-146-2	0.01	Carcinogenic; Equivalent level of concern
141	Dipentyl phthalate (DPP) +	131-18-0	205-017-9	0.005	Toxic for reproduction
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	-	-	0.005	Equivalent level of concern
143	Ammonium pentadecafluorooctanoate (APFO) ≠	3825-26-1	223-320-4	0.005	Toxic for reproduction; PBT
144	Pentadecafluorooctanoic acid (PFOA) ≠	335-67-1	206-397-9	0.005	Toxic for reproduction; PBT
145	Cadmium sulphide	1306-23-6	215-147-8	0.01	Carcinogenic; Equivalent level of concern
146	Dihexyl phthalate	84-75-3	201-559-5	0.005	Toxic for reproduction
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	0.005	Carcinogenic
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo]-5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	217-710-3	0.005	Carcinogenic
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	202-506-9	0.005	Toxic for reproduction
150	Lead diacetate*	301-04-2	206-104-4	0.01	Toxic for reproduction
151	Trixylyl phosphate	25155-23-1	246-677-8	0.005	Toxic for reproduction
152	Cadmium chloride*	10108-64-2	233-296-7	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
153	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear++	68515-50-4	271-093-5	0.005	Toxic for reproduction
154	Sodium peroxometaborate*	7632-04-4	231-556-4	0.01	Toxic for reproduction
155	Sodium perborate; perboric acid, sodium salt*	-	239-172-9; 234-390-0	0.01	Toxic for reproduction
156	Cadmium fluoride *	7790-79-6	232-222-0	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health



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157	Cadmium sulphate *	10124-36-4; 31119-53-6	233-331-6	0.01	Carcinogenic; Mutagenic; Toxic for Reproduction; Equivalent level of concern having probable serious effects to human health
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.005	PBT; vPvB
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.005	PBT; vPvB
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) +++	15571-58-1	239-622-4	0.01	Toxic for Reproduction
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE) +++	-	-	0.01	Toxic for Reproduction
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate (EC No. 201-559-5)	68515-51-5; 68648-93-1	271-094-0; 272-013-1	0.01	Toxic for reproduction
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	-	-	0.01	Very persistent and very bioaccumulative
164	1,3-propanesultone	1120-71-4	214-317-9	0.01	Carcinogenic
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.005	vPvB
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.005	vPvB
167	Nitrobenzene	98-95-3	202-716-0	0.01	Toxic for reproduction
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.01	Toxic for reproduction; PBT
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.005	Carcinogenic; Mutagenic; Toxic for Reproduction; PBT; vPvB
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	0.005	Toxic for reproduction Endocrine disrupting properties-environment & human health
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts/	-	-	0.005	Toxic for reproduction; PBT
172	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	-	-	0.005	Equivalent level of concern having probable serious effects to the environment
173	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.005	Equivalent level of concern having probable serious effects to the environment
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	0.005	vPvB



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175	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear(4-HPbl)]	-	-	0.01	Endocrine disrupting properties-environment
176	Dodecachloropentacyclo[12.2.1.16.9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus" TM) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	0.01	vPvB
177	Chrysene	218-01-9 1719-03-5	205-923-4	0.005	Carcinogenic; PBT; vPvB
178	Cadmium nitrate*	10022-68-1 10325-94-7	233-710-6	0.01	Carcinogenic; Mutagenic Specific target organ toxicity after repeated exposure
179	Cadmium hydroxide*	21041-95-2	244-168-5	0.01	Carcinogenic; Mutagenic Specific target organ toxicity after repeated exposure
180	Cadmium carbonate*	513-78-0	208-168-9	0.01	Carcinogenic; Mutagenic Specific target organ toxicity after repeated exposure
181	Benz[a]anthracene	56-55-3 1718-53-2	200-280-6	0.005	Carcinogenic; PBT; vPvB
182	Terphenyl, hydrogenated	61788-32-7	262-967-7	0.005	vPvB
183	Octamethylcyclotetrasiloxane(D4)	556-67-2	209-136-7	0.005	PBT; vPvB
184	Lead	7439-92-1	231-100-4	0.01	Toxic for reproduction
185	Ethylenediamine (EDA)	107-15-3	203-468-6	0.005	Respiratory sensitising properties
186	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.005	PBT; vPvB
187	Disodium octaborate*	12008-41-2	234-541-0	0.005	Toxic for reproduction
188	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.005	Toxic for reproduction; Endocrine disrupting properties
189	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.005	PBT; vPvB
190	Benzo[ghi]perylene	191-24-2	205-883-8	0.005	PBT; vPvB
191	Benzene-1,2,4- tricarboxylic acid 1,2 anhydride (TMA)	552-30-7	209-008-0	0.005	Respiratory sensitising properties
192	Pyrene	129-00-0 1718-52-1	204-927-3	0.005	PBT; vPvB
193	Phenanthrene	85-01-8	201-581-5	0.005	vPvB
194	Fluoranthene	206-44-0 93951-69-0	205-912-4	0.005	PBT; vPvB
195	Benzo[k]fluoranthene	207-08-9	205-916-6	0.005	Carcinogenic; PBT; vPvB
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.005	Toxic for reproduction
197	1,7,7-trimethyl-3-(phenylmethylene)-Bicyclo[2.2.1]heptan-2-one	15087-24-8	239-139-9	0.005	Endocrine disrupting properties
198	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	0.01	Equivalent level of concern having probable serious effects to human health Equivalent level of concern having probable serious effects to the environment
199	2-methoxyethyl acetate	110-49-6	203-772-9	0.01	Toxic for reproduction
200	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01	Endocrine disrupting properties
201	4-tert-butylphenol	98-54-4	202-679-0	0.005	Endocrine disrupting properties



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202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.005	Toxic for reproduction
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.005	Toxic for reproduction
204	Diisohexyl phthalate	71850-09-4	276-090-2	0.005	Toxic for reproduction
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.005	Equivalent level of concern having probable serious effects on the environment and human health
206	1-vinylimidazole	1072-63-5	214-012-0	0.005	Toxic for reproduction
207	2-methylimidazole	693-98-1	211-765-7	0.005	Toxic for reproduction
208	Dibutylbis(pentane-2,4-dionato-O,O')tin +++	22673-19-4	245-152-0	0.01	Toxic for reproduction
209	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.005	Equivalent level of concern having probable serious effects on the human health - Endocrine disrupting properties
210	bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.01	Toxic for reproduction
211	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-	0.01	Toxic for reproduction
212	1,4-dioxane	123-91-1	204-661-8	0.01	Equivalent level of concern having probable serious effects on the environment and human health
213	2,2-bis(bromomethyl)propane 1,3-diol (BMP) 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0 36483-57-5 1522-92-5 96-13-9	221-967-7 253-057-0 202-480-9	0.01	Carcinogenic
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	-	-	0.01	Toxic for reproduction
215	4,4'-(1-methylpropylidene)bisphenol; (bisphenol B)	77-40-7	201-025-1	0.01	Endocrine disrupting properties - environment and human health
216	Glutaral	111-30-8	203-856-5	0.01	Respiratory sensitising properties - human health
217	Medium-chain chlorinated paraffins [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17] (MCCP)	-	-	0.01	PBT; vPvB
218	Orthoboric acid, sodium salt*	13840-56-7	237-560-2	0.01	Toxic for reproduction
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	-	-	0.01	Toxic for reproduction; Endocrine disrupting properties - environment & human health
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	-	0.01	Equivalent level of concern having probable serious effects on human health
221	6,6'-di-tert-butyl-2,2'-methylene-di-p-cresol (DBMC)	119-47-1	204-327-1	0.01	Toxic for reproduction



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222	S-(tricyclo[5.2.1.0 ^{2,6}] deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9	0.01	PBT
223	Tris(2-methoxyethoxy) vinylsilane	1067-53-4	213-934-0	0.01	Toxic for reproduction
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	0.01	Carcinogenic; Mutagenic
225	1,1'-[ethane-1,2-diylbis(oxy)]bis[2,4,6-tribromobenzene]	37853-59-1	253-692-3	0.01	vPvB
226	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol	79-94-7	201-236-9	0.01	Carcinogenic
227	4,4'-sulphonyldiphenol	80-09-1	201-250-5	0.01	Toxic for reproduction Endocrine disrupting properties- environment & human health
228	Barium diboron tetraoxide*	13701-59-2	237-222-4	0.01	Toxic for reproduction
229	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	-	-	0.01	vPvB
230	Isobutyl 4-hydroxybenzoate	4247-02-3	224-208-8	0.01	Endocrine disrupting properties- human health
231	Melamine	108-78-1	203-615-4	0.01	Equivalent level of concern having probable serious effects on the environment and human health
232	Perfluoroheptanoic acid and its salts	-	-	0.01	Toxic for reproduction PBT vPvB Equivalent level of concern having probable serious effects on the environment and human health
233	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	-	473-390-7	0.01	vPvB
234	Bis(4-chlorophenyl) sulphone	80-07-9	201-247-9	0.01	vPvB
235	Diphenyl(2,4,6-trimethylbenzoyl)phosphine oxide	75980-60-8	278-355-8	0.01	Toxic for reproduction
236	2,4,6-tri-tert-butylphenol	732-26-3	211-989-5	0.005	Toxic for reproduction PBT vPvB
237	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol	3147-75-9	221-573-5	0.005	vPvB
238	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one	119344-86-4	438-340-0	0.005	Toxic for reproduction
239	Bumetizole	3896-11-5	223-445-4	0.005	vPvB
240	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	-	700-960-7	0.005	vPvB

Proposals to the 2 identify Substances of Very High Concern (SVHC)

No.	Substance name	CAS No.	EC No.	Detection Limit, %	Basis for identification as a SVHC
241	Bis(α,α-dimethylbenzyl) peroxide	80-43-3	201-279-3	0.005	Toxic for reproduction
242	Triphenyl phosphate	115-86-6	204-112-2	0.005	Endocrine disrupting properties- environment



**BUREAU
VERITAS**

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- ⁽¹⁾ CAS no. 7789-12-0 refers to sodium dichromate dihydrate
- ⁽²⁾ CAS no. 10588-01-9 refers to anhydrous sodium dichromate
- ⁽³⁾ CAS no. 3194-55-6 refers to a specific HBCDD - 1,2,5,6,9,10-hexabromocyclododecane
- ⁽⁴⁾ CAS no. 25637-99-4 refers to unspecific HBCDD isomer composition
- ⁽⁵⁾ CAS no. 1330-43-4 refers to disodium tetraborate, anhydrous
- ⁽⁶⁾ CAS no. 12179-04-3 refers to sodium tetraborate, pentahydrate
- ⁽⁷⁾ CAS no. 1303-96-4 refers to sodium tetraborate, decahydrate

Remark:

1. PBT = Persistent, bio accumulative and toxic as defined in Regulation (EC) No 1907/2006
2. vPvB = Very persistent and very bio accumulative as defined in Regulation (EC) No 1907/2006
3. ND = Not Detected
4. *Result is based on the heavy metal or inorganic element concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
5. **Result is identified by tributyltin (TBT). Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
6. §TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) and β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione) are reported as a mixture.
7. ^aRefer to Aluminosilicate, Refractory Ceramic Fibres fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight.
8. ^bRefer to Zirconia Aluminosilicate, Refractory Ceramic Fibres fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na₂O+K₂O+CaO+MgO+BaO) content less or equal to 18% by weight.
9. [†][1,2-Benzenedicarboxylic acid, dipentylester, branched and linear] is a mixture of phthalates contains DPP, DIPP and N-pentyl-isopentylphthalate.
10. [‡]PFOA and APFO are reported together. The result is based on PFOA concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
11. ^{††}[1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear] is a mixture of phthalates contains dihexyl phthalate.
12. ^{†††}Result is based on the tin metal concentration, and further confirmation for checking DBT, DOTE & MOTE concentration.

END