

TEST REPORT

CheckCode:602222
Report No.:C202213011035E

Applicant: Lumi United Technology Co., Ltd.
Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No. 3370, Liuxian Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District, Shenzhen, China

The following sample information was submitted and identified by/on the behalf of the client

Name: Curtain Driver E1
Specifications: CM-M01
Sample State: Normal

Date of Receipt: Apr.1, 2022
Apr.24, 2022
May.5, 2022
May.24, 2022

Test Period: Apr.1, 2022 – May.30, 2022

Test Request:

- Two hundred and twenty-three (223) SVHC screening is performed according to Regulation (EC) No 1907/2006 concerning the REACH.
- One (1) SVHC proposed by WTO on Jun.1, 2021 screening is performed.

Test Result: Please refer to following page(s).

Summary:

According to the specified scope and evaluation screening, the test results of SVHC are > 0.1% (w/w) in the submitted sample. See A7, A8, A11, B5, B6, B8, B10, B13, B16, B18.	See annex 2: obligations under REACH
One(1) SVHC proposed by WTO on Jun.1, 2021 screening is performed.	See Results

Edited by Mo Chunshun Reviewed by Zhang Lira Approved by Zheng Xiaqing



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Seal of:

GUANGZHOU GRG METROLOGY & TEST CO., LTD.

Issue date:Jun.1,2022

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Material list:

No.	Sample Description
1	White plastic shell
2	White plastic cover (On No.1)
3	White plastic shell (On No.1)
4	Silvery metal screw (On No.3)
5	Black "PCB" (In No.3)
6	Black surfaced metal screw (On No.5)
7	Black body (3 feet) (On No.5)
8	Beige plastic part (On No.5)
9	Silvery metal sheet (On No.8)
10	Black plastic part (On No.8)
11	Silvery metal pin (On No.8)
12	Brown body (On No.5)
13	Black body (small) (On No.5)
14	Black body (big) (On No.5)
15	Lt-grey body (On No.5)
16	Silvery-grey metal part (In No.3)
17	Silvery metal ring (On No.16)
18	Silvery metal sheet (On No.17)
19	Silvery metal ring (In No.17)
20	Silvery metal holder (In No.17)
21	Silvery metal part (In No.17)
22	Silvery metal bead (On No.20)
23	Grey plastic part (On No.1)
24	Silvery metal rod (On No.23)
25	Black plastic gear (On No.23)

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No.	Sample Description
26	White plastic part (In No.23)
27	Silvery metal magnet (On No.23)
28	Black plastic shell (In No.3)
29	Silvery metal wire
30	Silvery metal part (On No.28)
31	Silvery metal nut (On No.30)
32	Silvery metal washer (On No.30)
33	White plastic part (On No.30)
34	Silvery metal rod (On No.28)
35	Black surfaced metal screw (In No.28)
36	Silvery metal rod (In No.28)
37	Silvery-grey metal part (On No.28)
38	White translucent plastic part (On No.37)
39	Silvery metal shell (In No.3)
40	Transparent plastic sheet with multi-colored printing (On No.39)
41	Silvery metal cover (On No.39)
42	White plastic ring (On No.41)
43	Silver metal rod (In No.39)
44	Silvery metal part (In No.39)
45	Silvery metal rod (On No.44)
46	Silvery metal screw (On No.39)
47	Silvery metal part (In No.39)
48	Silvery metal sheet (In No.39)
49	Black surfaced metal gear (In No.39)
50	Beige translucent plastic gear with oil (In No.39)
51	Golden metal tube (On No.39)

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No.	Sample Description
52	White plastic part (In No.39)
53	Black core (On No.52)
54	Silvery metal sheet (On No.52)
55	White plastic shell (On No.39)
56	Beige translucent plastic part (On No.55)
57	Copper-colored enamelled wire (On No.56)
58	Green "PCB" (On No.56)
59	Silvery metal solder (On No.58)
60	Silvery metal pin (On No.58)
61	Blue plastic jacket (On No.58)
62	Dk-brown plastic jacket (On No.58)
63	Red plastic jacket with black printing (On No.58)
64	Yellow plastic jacket with black printing (On No.58)
65	Black plastic jacket with white printing (On No.58)
66	Silvery metal wire (In No.61)
67	White plastic socket (On No.61)
68	White glue (On No.67)
69	Silvery metal terminal (In No.67)
70	White "FPC" (On No.5)
71	Blue plastic sheet (On No.70)
72	Black "PCB" (In No.3)
73	Black surfaced metal screw (On No.72)
74	Black plastic jacket with white printing
75	Black body (On No.72)
76	Brown body (big) (On No.72)
77	Brown body (small) (On No.72)

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No.	Sample Description
78	Black body with white printing (On No.72)
79	Brown body (On No.72)
80	Black body (On No.72)
81	Silvery metal pin (On No.80)
82	Black body (On No.72)
83	Beige plastic socket (On No.72)
84	Silvery metal pin (In No.83)
85	Silvery metal sheet (On No.83)
86	Beige plastic socket (big) (On No.72)
87	Beige metal socket (small) (On No.72)
88	Silvery metal part (On No.87)
89	Beige plastic socket (long) (On No.72)
90	Silvery metal pin (In No.89)
91	Silvery metal shell with black printing (On No.72)
92	Black plastic base (On No.91)
93	Black rubber part (In No.91)
94	Silvery metal part (In No.91)
95	Silvery metal pin (On No.94)
96	Silvery-grey metal foil (In No.91)
97	Beige paper sheet with liquid (In No.91)
98	Dk-grey metal foil (In No.91)
99	Black plastic shell (On No.72)
100	Silvery metal sheet with red printing (thin) (In No.99)
101	Silvery-grey metal sheet (thick) (In No.99)
102	Black glue (On No.99)
103	Copper-colored enamelled wire (In No.99)

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No.	Sample Description
104	Dk-blue enamelled wire (In No.99)
105	Silver metal rod (In No.99)
106	Green "PCB" (In No.99)
107	Black "PCB" (On No.72)
108	Black body (On No.107)
109	Off-white body (On No.107)
110	Silvery body (On No.107)
111	Brown body (On No.107)
112	Black body (On No.107)
113	Yellow plastic jacket with black prnting
114	Dk-grey body (On No.107)
115	Silvery metal solder (On No.107)
116	Red plastic jacket with black printing
117	Golden metal part (On No.116)
118	Golden metal rod (On No.116)
119	Golden metal shell (On No.107)
120	Beige plastic socket
121	Golden metal sheet (In No.119)
122	Black plastic jacket (On No.119)
123	Silvery metal wire (In No.122)
124	Translucent plastic jacket (In No.122)
125	Black adhesive "FPC" (On No.122)
126	Silvery metal solder (On No.125)
127	Brown body (On No.72)
128	Dk-grey body (On No.72)
129	Black body (2 feet) (On No.72)

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No.	Sample Description
130	Black body (On No.72)
131	Translucent glue (On No.72)
132	Black body (3 feet) (On No.72)
133	Black body (U1)
134	Black body (2 feet) (On No.72)
135	Black body (On No.72)
136	Dk-grey core with black printing (On No.72)
137	Black body (5 feet) (On No.72)
138	Black body (Q3)
139	Dk-grey body (On No.72)
140	Black body (On No.72)
141	Dk-grey core with black printing (On No.72)
142	Silvery metal pin (On No.141)
143	Copper-colored enamelled wire (In No.141)
144	Brown body (On No.72)
145	Silvery body (On No.107)
146	Black body (small) (On No.72)
147	Black body (big) (On No.72)
148	Silvery metal pin (On No.147)
149	Golden body (On No.147)
150	Black body (4 feet) (On No.70)
151	Black body (On No.72)
152	Silvery metal solder (On No.72)
153	Dk-brown body (On No.72)
154	White & black body (On No.72)
155	Silvery metal cover (On No.72)

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No.	Sample Description
156	Black plastic button (On No.155)
157	Silvery metal sheet (In No.155)
158	Black plastic base (On No.155)
159	Silvery metal sheet (In No.158)
160	Grey plastic part (In No.1)
161	Golden metal part (In No.1)
162	Translucent plastic part (On No.1)
163	Translucent plastic sheet (In No.1)
164	Black "PCB" (In No.3)
165	Silvery surfaced metal shell (surface layer) (On No.164)
166	Black plastic part (In No.164)
167	Silvery & golden metal pin (On No.166)
168	Silvery metal solder (On No.164)
169	Red plastic jacket with black printing (On No.164)
170	Black plastic jacket with white printing (On No.164)
171	Silvery metal wire (In No.170)
172	Beige plastic socket (On No.170)
173	Silvery metal terminal (In No.172)
174	Black plastic shell (In No.3)
175	Black body with white printing (RS1)
176	Black plastic cover (On No.174)
177	Blue translucent glue
178	White plastic gear (In No.174)
179	Silvery metal rod (In No.174)
180	Dk-grey surfaced metal gear (In No.174)
181	Silvery metal rod (In No.174)

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No.	Sample Description
182	Silvery metal part (In No.174)
183	Dk-grey surfaced metal sheet (In No.174)
184	Silvery metal screw (In No.174)
185	Dk-grey surfaced metal gear (On No.183)
186	Silvery metal rod (On No.183)
187	Silvery-grey metal spring (On No.186)
188	Silvery metal shell with beige pirnting (On No.174)
189	Dk-gery core (In No.188)
190	Golden metal part (On No.188)
191	Champaign golden metal ring (On No.188)
192	Silvery metal rod (In No.188)
193	Copper-colored enamelled wire (On No.192)
194	Silvery-grey metal silicon steel sheet (On No.188)
195	White plastic sheet (On No.194)
196	Beige translucent plastic ring (On No.192)
197	Silvery metal solder
198	Silvery metal sheet
199	Black "PCB"
200	Copper-colored metal sheet (On No.192)
201	Black plastic part (In No.200)
202	Black core (On No.200)
203	Silvery metal solder (On No.202)
204	Red-brown paper ring (On No.200)
205	Copper-colored metal ring (On No.193)
206	Black plastic shell with yellow printing (On No.205)
207	Silvery metal pin with solder (On No.206)

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No.	Sample Description
208	Beige plastic cover (On No.188)
209	Orange body (In No.208)
210	Silvery metal solder (In No.208)
211	Copper-colored metal sheet (In No.208)
212	Dk-grey core (On No.211)
213	Black adhesive rubber part (On No.211)
214	Silvery metal pin (On No.211)
215	Black plastic heat shrinkable tube with white printing (On No.214)
216	Transparent plastic sheet
217	White plastic part
218	Silvery metal rod (On No.217)
219	Silvery metal spring (On No.217)
220	White plastic sheet (In No.217)
221	White plastic part
222	Milky white rubber part (On No.221)
223	Silvery metal rod (On No.222)
224	Silvery metal part (On No.221)
225	White plastic power jacket
226	Red plastic jacket (In No.255)
227	Black plastic jacket (In No.255)
228	White plastic plug (over mold) (On No.225)
229	Silvery metal part (On No.228)
230	Translucent plastic plug (inner mold) (In No.228)
231	White plastic part (In No.230)
232	Green "PCB" (On No.231)
233	Black body (On No.232)

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No.	Sample Description
234	Silvery metal part (On No.231)
235	Silvery & golden metal pin (In No.231)
236	Silvery metal solder (On No.232)
237	White plastic plug (over mold) (On No.225)
238	Silvery metal part (On No.237)
239	White plastic part (In No.237)
240	Silvery & golden metal pin (In No.239)
241	White plastic shell
242	White plastic cover (On No.241)
243	White plastic shell (On No.241)
244	Silvery metal screw (On No.243)
245	White plastic part (On No.241)
246	Off-white plastic ring (On No.241)
247	White plastic part (In No.246)
248	Silvery metal rod (In No.246)
249	Golden metal ring (On No.248)
250	Black adhesive felt sheet
251	Black material
252	White plastic sheet
253	Silvery metal foil
254	Brown translucent adhesive plastic sheet
255	Black material
256	Copper-colored metal foil
257	White plastic sheet
258	Transparent plastic sheet
259	Silvery metal pin

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No.	Sample Description
260	Dk-blue adhesive plastic sheet
261	White fiber sheet
262	White plastic ring
263	Brown plastic sheet
264	Silvery metal part
265	Brown & white plastic part
266	Silvery metal cover
267	Silvery metal shell with black printing
268	White plastic washer
269	Silvery metal sheet
270	White glue
271	White double-side adhesive glue
272	Black adhesive plastic sheet
273	Lt-blue plastic shell with black printing
274	Black adhesive foam sheet
275	White adhesive plastic sheet with black printing
276	Black plastic shell (In No.3)
277	Silvery metal pin
278	White adhesive plastic sheet with grey printing

Testing groups	Testing requirement	Composition
A1	72 Substances of Very High Concern(SVHC) testing	4+6+9+11+16+17+18+19+20+21
A2	72 Substances of Very High Concern(SVHC) testing	22+24+27+30+31+32+34+35+36+37
A3	72 Substances of Very High Concern(SVHC) testing	39+41+43+44+45+46+47+48+49+51
A4	72 Substances of Very High Concern(SVHC) testing	54+59+60+66+69+73+81+84+85+88

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Testing groups	Testing requirement	Composition
A5	72 Substances of Very High Concern(SVHC) testing	90+91+94+95+96+98+100+101+105+115
A6	72 Substances of Very High Concern(SVHC) testing	117+118+119+121+123+126+142+148+152+155
A7	72 Substances of Very High Concern(SVHC) testing	157+159+161+165+167+168+171+173+179+180
A8	72 Substances of Very High Concern(SVHC) testing	181+182+183+184+185+186+187+188+190+191
A9	72 Substances of Very High Concern(SVHC) testing	192+194+200+203+205+207+210+211+214+218
A10	72 Substances of Very High Concern(SVHC) testing	219+223+224+229+234+235+236+238+240+244
A11	72 Substances of Very High Concern(SVHC) testing	248+249
A12	72 Substances of Very High Concern(SVHC) testing	266+267+269+277
A13	72 Substances of Very High Concern(SVHC) testing	25+29+197+198+253+256+259+264
B1	223 Substances of Very High Concern(SVHC) testing	1+2+3+5+7+8+10+12+13+14
B2	223 Substances of Very High Concern(SVHC) testing	15+23+26+28+33+38+40+42
B3	223 Substances of Very High Concern(SVHC) testing	50+52+53+55+56+57+58+61+62+63
B4	223 Substances of Very High Concern(SVHC) testing	64+65+67+68+70+71+72+75+76
B5	223 Substances of Very High Concern(SVHC) testing	77+78+79+80+82+83+86+87+89+92
B6	223 Substances of Very High Concern(SVHC) testing	93+97+99+102+103+104+106+107+108+109
B7	223 Substances of Very High Concern(SVHC) testing	110+111+112+114+122+124+125
B8	223 Substances of Very High Concern(SVHC) testing	127+128+129+130+131+132+134+135+136
B9	223 Substances of Very High Concern(SVHC) testing	137+139+140+141+143+144+145+146+147
B10	223 Substances of Very High Concern(SVHC) testing	149+150+151+153+154+156+158+160+162+163
B11	223 Substances of Very High Concern(SVHC) testing	164+166+169+170+172+174+176+178
B12	223 Substances of Very High Concern(SVHC) testing	189+193+195+196+201+202+204
B13	223 Substances of Very High Concern(SVHC) testing	206+208+209+212+213+215+216+217+220+221
B14	223 Substances of Very High Concern(SVHC) testing	222+225+226+227+228+230+231+232+233+237

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Testing groups	Testing requirement	Composition
B15	223 Substances of Very High Concern(SVHC) testing	239+241+242+243+245+246+247
B16	223 Substances of Very High Concern(SVHC) testing	263+262+261+260+258+257+255+254+252+251
B17	223 Substances of Very High Concern(SVHC) testing	250+199+177+175+138+133+120+116+113+74
B18	223 Substances of Very High Concern(SVHC) testing	276+275+274+273+272+271+270+268+265
B19	223 Substances of Very High Concern(SVHC) testing	278
B1	1 Substances to propose as substances of Very High Concern(SVHC) testing	1+2+3+5+7+8+10+12+13+14
B2	1 Substances to propose as substances of Very High Concern(SVHC) testing	15+23+26+28+33+38+40+42
B3	1 Substances to propose as substances of Very High Concern(SVHC) testing	50+52+53+55+56+57+58+61+62+63
B4	1 Substances to propose as substances of Very High Concern(SVHC) testing	64+65+67+68+70+71+72+75+76
B5	1 Substances to propose as substances of Very High Concern(SVHC) testing	77+78+79+80+82+83+86+87+89+92
B6	1 Substances to propose as substances of Very High Concern(SVHC) testing	93+97+99+102+103+104+106+107+108+109
B7	1 Substances to propose as substances of Very High Concern(SVHC) testing	110+111+112+114+122+124+125
B8	1 Substances to propose as substances of Very High Concern(SVHC) testing	127+128+129+130+131+132+134+135+136
B9	1 Substances to propose as substances of Very High Concern(SVHC) testing	137+139+140+141+143+144+145+146+147
B10	1 Substances to propose as substances of Very High Concern(SVHC) testing	149+150+151+153+154+156+158+160+162+163
B11	1 Substances to propose as substances of Very High Concern(SVHC) testing	164+166+169+170+172+174+176+178
B12	1 Substances to propose as substances of Very High Concern(SVHC) testing	189+193+195+196+201+202+204

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Testing groups	Testing requirement	Composition
B13	1 Substances to propose as substances of Very High Concern(SVHC) testing	206+208+209+212+213+215+216+217+220+221
B14	1 Substances to propose as substances of Very High Concern(SVHC) testing	222+225+226+227+228+230+231+232+233+237
B15	1 Substances to propose as substances of Very High Concern(SVHC) testing	239+241+242+243+245+246+247
B16	1 Substances to propose as substances of Very High Concern(SVHC) testing	263+262+261+260+258+257+255+254+252+251
B17	1 Substances to propose as substances of Very High Concern(SVHC) testing	250+199+177+175+138+133+120+116+113+74
B18	1 Substances to propose as substances of Very High Concern(SVHC) testing	276+275+274+273+272+271+270+268+265
B19	1 Substances to propose as substances of Very High Concern(SVHC) testing	278

Test Result(s):

Test Method: In-house method, GC-MS, GC-ECD/NCI-GC/MS, HPLC and UPLC-PDA-MS quantification of relevant SVHC (substances of very high concern) in material samples;
ICP-OES-screening, AAS-screening after decomposition for determination of relevant SVHC.

1. 223 Substances of Very High Concern(SVHC)

Substance name	CAS No.	Reporting Limit (%)	Result (%)				
			A1	A2	A3	A4	A5
Lead※	7439-92-1	0.005	N.D.	N.D.	N.D.	0.026	N.D.
Other tested SVHC	---	---	N.D.	N.D.	N.D.	N.D.	N.D.

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Substance name	CAS No.	Reporting Limit (%)	Result (%)				
			A6	A7	A8	A9	A10
Lead※	7439-92-1	0.005	0.033	3.066	3.056	0.069	0.017
Other tested SVHC	---	---	N.D.	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	Reporting Limit (%)	Result (%)		
			A11	A12	A13
Lead※	7439-92-1	0.005	3.068	N.D.	0.007
Other tested SVHC	---	---	N.D.	N.D.	N.D.

Substance name	CAS No.	Reporting Limit (%)	Result (%)				
			B1	B2	B3	B4	B5
Lead※	7439-92-1	0.005	0.166	N.D.	N.D.	N.D.	1.127
Decamethylcyclopentasiloxane (D5)	541-02-6	0.030	N.D.	N.D.	N.D.	0.062	N.D.
Dodecamethylcyclohexasiloxane(D6)	540-97-6	0.030	N.D.	N.D.	N.D.	0.066	N.D.
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.030	N.D.	N.D.	0.033	N.D.	N.D.
N,N-dimethylformamide	68-12-2	0.030	0.045	N.D.	0.063	N.D.	N.D.
Other tested SVHC	---	---	N.D.	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	Reporting Limit (%)	Result (%)				
			B6	B7	B8	B9	B10
Lead※	7439-92-1	0.005	0.156	N.D.	3.362	N.D.	0.224
Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	---	0.030	0.058	N.D.	N.D.	N.D.	N.D.
Other tested SVHC	---	---	N.D.	N.D.	N.D.	N.D.	N.D.

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Substance name	CAS No.	Reporting Limit (%)	Result (%)				
			B11	B12	B13	B14	B15
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.030	N.D.	N.D.	22.801	N.D.	N.D.
Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	---	0.030	N.D.	N.D.	2.156	N.D.	N.D.
Other tested SVHC	---	---	N.D.	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	Reporting Limit (%)	Result (%)		
			B16	B17	B18
Decamethylcyclopentasiloxane (D5)	541-02-6	0.030	N.D.	N.D.	0.056
Dodecamethylcyclohexasiloxane(D6)	540-97-6	0.030	N.D.	N.D.	0.139
2-ethoxyethanol	110-80-5	0.030	0.221	N.D.	N.D.
1,4-dioxane	123-91-1	0.030	0.033	N.D.	N.D.
Other tested SVHC	---	---	N.D.	N.D.	N.D.

Substance name	CAS No.	Reporting Limit (%)	Result (%)
			B19
All tested SVHC	---	---	N.D.

2.1 Substances to propose as Substances of Very High Concern(SVHC)

Substance name	CAS No.	Reporting Limit (%)	Result (%)				
			B1	B2	B3	B4	B5
All substances to propose as Substances of Very High Concern	---	---	N.D.	N.D.	N.D.	N.D.	N.D.

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Substance name	CAS No.	Reporting Limit (%)	Result (%)				
			B6	B7	B8	B9	B10
All substances to propose as Substances of Very High Concern	---	---	N.D.	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	Reporting Limit (%)	Result (%)				
			B11	B12	B13	B14	B15
All substances to propose as Substances of Very High Concern	---	---	N.D.	N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	Reporting Limit (%)	Result (%)			
			B16	B17	B18	B19
All substances to propose as Substances of Very High Concern	---	---	N.D.	N.D.	N.D.	N.D.

- Remark:
- The table above only shows detected substances, and substances that below Reporting Limit are not reported. Please refer to Annex 1 for the full list of tested SVHC.
 - *The substances are tested in term of its respective elements (e.g. As, Pb, Cr(VI) ,B).
 - §The substance is proposed for the identification as target compound only where it contains Michler's ketone(CAS No.:90-94-8) or Michler's base(CAS No.:101-61-1) $\geq 0.1\%$ (w/w).
 - Anthracene are tested by Polycyclic and heterocyclic Aromatic Hydrocarbons.
 - *,※The analysis of these substances is conducted for metal components.
 - "N.D." = Not Detected (Below Reporting Limit).
 - Results shown are of the minimum weight of mixed samples.
 - As the No.12~No.15, No.68, No.71, No.77, No.79, No.103~ No.104, No.108~ No.109, No.122, No.124, No.139, No.140, No.153, No.156, No.196, No.204, No.206, No.215 were insufficient, the test result(s) was /were based on sample resubmitted by 2022-04-24.
 - Result shown of No.115, No.168 was based on sample resubmitted by 2022-05-05.
 - The result(s) shown No.115, No.168 is/are of the total weight of dried sample.

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Appendix 1 - Full list of tested SVHC:

1. 223 Substances of Very High Concern(SVHC):

No.	Substance name	CAS No.	Reporting Limit (%)
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.030
2	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.030
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.030
4	Anthracene	120-12-7	0.030
5	Benzyl butyl phthalate (BBP)	85-68-7	0.030
6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.030
7	Bis(tributyltin) oxide (TBTO)	56-35-9	0.030
8	Cobalt dichloride*	7646-79-9	0.005
9	Diarsenic pentaoxide*	1303-28-2	0.005
10	Diarsenic trioxide*	1327-53-3	0.005
11	Dibutyl phthalate (DBP)	84-74-2	0.030
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified(α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	0.030
13	Lead hydrogen arsenate*	7784-40-9	0.005
14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
15	Triethyl arsenate*	15606-95-8	0.005
16	2,4-dinitrotoluene	121-14-2	0.030
17	Acrylamide	79-06-1	0.030
18	Anthracene oil	90640-80-5	0.030
19	Anthracene oil, anthracene paste	90640-81-6	0.030
20	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
21	Anthracene oil, anthracene paste, distn. lights	91995-17-4	0.030
22	Anthracene oil, anthracene-low	90640-82-7	0.030
23	Diisobutyl phthalate	84-69-5	0.030
24	Lead chromate*	7758-97-6	0.010
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) *	12656-85-8	0.010
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34) *	1344-37-2	0.010
27	Pitch, coal tar, high-temp.	65996-93-2	0.030
28	Tris(2-chloroethyl) phosphate	115-96-8	0.030
29	Ammonium dichromate*	7789-09-5	0.010
30	Boric acid*	10043-35-3, 11113-50-1	0.010
31	Disodium tetraborate, anhydrous*	12179-04-3, 1303-96-4, 1330-43-4	0.010
32	Potassium chromate*	7789-00-6	0.010
33	Potassium dichromate*	7778-50-9	0.010
34	Sodium chromate*	7775-11-3	0.010
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.010
36	Trichloroethylene	79-01-6	0.030
37	2-ethoxyethanol	110-80-5	0.030
38	2-methoxyethanol	109-86-4	0.030
39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5, --- 13530-68-2	0.010
40	Chromium trioxide*	1333-82-0	0.010
41	Cobalt(II) carbonate*	513-79-1	0.010

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No.	Substance name	CAS No.	Reporting Limit (%)
42	Cobalt(II) diacetate*	71-48-7	0.010
43	Cobalt(II) dinitrate*	10141-05-6	0.010
44	Cobalt(II) sulphate*	10124-43-3	0.010
45	1,2,3-trichloropropane	96-18-4	0.030
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.030
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.030
48	1-Methyl-2-pyrrolidone (NMP)	872-50-4	0.030
49	2-ethoxyethyl acetate	111-15-9	0.030
50	Hydrazine	302-01-2, 7803-57-8	0.030
51	Strontium chromate*	7789-06-2	0.010
52	1,2-dichloroethane	107-06-2	0.030
53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.030
54	2-Methoxyaniline, o-Anisidine	90-04-0	0.030
55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.030
56	Aluminosilicate Refractory Ceramic Fibres*	---	0.010
57	Arsenic acid*	7778-39-4	0.010
58	Bis(2-methoxyethyl) ether	111-96-6	0.030
59	Bis(2-methoxyethyl) phthalate	117-82-8	0.030
60	Calcium arsenate*	7778-44-1	0.010
61	Dichromium tris(chromate) *	24613-89-6	0.010
62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.030
63	Lead diazide, Lead azide*	13424-46-9	0.010
64	Lead dipicrate*	6477-64-1	0.010
65	Lead styphnate*	15245-44-0	0.010

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No.	Substance name	CAS No.	Reporting Limit (%)
66	N,N-dimethylacetamide	127-19-5	0.030
67	Pentazinc chromate octahydroxide*	49663-84-5	0.010
68	Phenolphthalein	77-09-8	0.030
69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.010
70	Trilead diarsenate*	3687-31-8	0.010
71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	---	0.010
72	[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	0.030
73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.030
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2	0.030
75	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4	0.030
76	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	0.030
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.030
78	Diboron trioxide*	1303-86-2	0.010
79	Formamide	75-12-7	0.030
80	Lead(II) bis(methanesulfonate) *	17570-76-2	0.010
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.030
82	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)§	6786-83-0	0.030
84	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H ,3H,5H)-trione (β -TGIC)	59653-74-6	0.030
85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.010
86	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	0.030
87	1,2-diethoxyethane	629-14-1	0.030
88	1-bromopropane (n-propyl bromide)	106-94-5	0.030
89	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazol idine	143860-04-2	0.030
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (covering well-defined substances and UVCB substances, polymers and homologues)	---	0.030
91	4,4'-methylenedi-o-toluidine	838-88-0	0.030
92	4,4'-oxydianiline and its salts	101-80-4	0.030
93	4-aminoazobenzene	60-09-3	0.030
94	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.030
95	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)	---	0.030
96	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.030
97	Acetic acid, lead salt, basic*	51404-69-4	0.010
98	Biphenyl-4-ylamine	92-67-1	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
99	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	0.030
100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.030
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	0.030
102	Dibutyltin dichloride (DBTC)	683-18-1	0.030
103	Diethyl sulphate	64-67-5	0.030
104	Diisopentyl phthalate	605-50-5	0.030
105	Dimethyl sulphate	77-78-1	0.030
106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.030
107	Dioxobis(stearato)trilead*	12578-12-0	0.010
108	Fatty acids, C16-18, lead salts*	91031-62-8	0.010
109	Furan	110-00-9	0.030
110	Henicosafuoroundecanoic acid	2058-94-8	0.030
111	Heptacosafuorotetradecanoic acid	376-06-7	0.030
112	Hexahydromethylphthalic 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	0.030
113	Lead bis(tetrafluoroborate) *	13814-96-5	0.010
114	Lead cyanamidate*	20837-86-9	0.010
115	Lead dinitrate*	10099-74-8	0.010
116	Lead monoxide (lead oxide) *	1317-36-8	0.010
117	Lead oxide sulfate*	12036-76-9	0.010
118	Orange lead (lead tetroxide) *	1314-41-6	0.010
119	Lead titanium trioxide*	12060-00-3	0.010

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No.	Substance name	CAS No.	Reporting Limit (%)
120	Lead titanium zirconium oxide*	12626-81-2	0.010
121	Methoxyacetic acid	625-45-6	0.030
122	Methyloxirane (Propylene oxide)	75-56-9	0.030
123	N,N-dimethylformamide	68-12-2	0.030
124	N-methylacetamide	79-16-3	0.030
125	N-pentyl-isopentylphthalate	776297-69-9	0.030
126	o-aminoazotoluene	97-56-3	0.030
127	o-toluidine	95-53-4	0.030
128	Pentacosafuorotridecanoic acid	72629-94-8	0.030
129	Pentalead tetraoxide sulphate*	12065-90-6	0.010
130	Pyrochlore, antimony lead yellow*	8012-00-8	0.010
131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.010
132	Silicic acid, lead salt*	11120-22-2	0.010
133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.010
134	Tetraethyllead*	78-00-2	0.010
135	Tetralead trioxide sulphate*	12202-17-4	0.010
136	Tricosafuorododecanoic acid	307-55-1	0.030
137	Trilead bis(carbonate) dihydroxide*	1319-46-6	0.010
138	Trilead dioxide phosphonate*	12141-20-7	0.010
139	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)	---	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.030
141	Cadmium oxide*	1306-19-0	0.010
142	Cadmium※	7440-43-9	0.010
143	Dipentyl phthalate (DPP)	131-18-0	0.030
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.030
145	Cadmium sulphide*	1306-23-6	0.010
146	Diethyl phthalate	84-75-3	0.030
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.030
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	0.030
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.030
150	Lead di(acetate) *	301-04-2	0.010
151	Triethyl phosphate	25155-23-1	0.030
152	1,2-Benzenedicarboxylic acid, diethyl ester, branched and linear	68515-50-4	0.030
153	Cadmium chloride*	10108-64-2	0.010
154	Sodium perborate, perboric acid, sodium salt*	---	0.010
155	Sodium peroxometaborate*	7632-04-4	0.010
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	0.030
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	0.030
159	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)	---	0.030
160	Cadmium fluoride*	7790-79-6	0.010
161	Cadmium sulphate*	10124-36-4, 31119-53-6	0.010
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)	68515-51-5, 68648-93-1	0.030
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 stereoisomers of [1] and [2] or any combination thereof]	---	0.030
164	1,3-propanesultone	1120-71-4	0.030
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.030
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.030
167	Nitrobenzene	98-95-3	0.030
168	Perfluorononan-1-ic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	0.030
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.030
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
171	4-heptylphenol, branched and linear	---	0.030
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7, 335-76-2, 3830-45-3	0.030
173	P-(1,1-dimethylpropyl)phenol	80-46-6	0.030
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	---	0.030
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	---	0.030
176	Benz[a]anthracene	56-55-3, 1718-53-2	0.030
177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.010
178	Cadmium carbonate *	513-78-0	0.010
179	Cadmium hydroxide*	21041-95-2	0.010
180	Chrysene	218-01-9, 1719-03-5	0.030
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	---	0.030
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.030
183	Dicyclohexyl phthalate (DCHP)	84-61-7	0.030
184	Benzo[ghi]perylene	191-24-2	0.030
185	Decamethylcyclopentasiloxane (D5)	541-02-6	0.030
186	Disodium octaborate*	12008-41-2	0.010
187	Dodecamethylcyclohexasiloxane(D6)	540-97-6	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
188	Ethylenediamine	107-15-3	0.030
189	Lead※	7439-92-1	0.005
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.030
191	Terphenyl hydrogenated	61788-32-7	0.030
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.030
193	Benzo[k]fluoranthene	207-08-9	0.030
194	Fluoranthene	206-44-0	0.030
195	Phenanthrene	85-01-8	0.030
196	Pyrene	129-00-0	0.030
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	0.030
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	---	0.030
199	4-tert-butylphenol	98-54-4	0.030
200	2-methoxyethyl acetate	110-49-6	0.030
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	---	0.030
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.030
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.030
204	Diisohexyl phthalate	71850-09-4	0.030
205	Perfluorobutane sulfonic acid (PFBS) and its salts	---	0.030
206	1-vinylimidazole	1072-63-5	0.030
207	2-methylimidazole	693-98-1	0.030
208	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0.030
209	Butyl 4-hydroxybenzoate(Butylparaben)	94-26-8	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.030
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	---	0.030
212	1,4-dioxane	123-91-1	0.030
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	0.030
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	---	0.030
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	0.030
216	Glutaral	111-30-8	0.030
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	---	0.030
218	Orthoboric acid, sodium salt*	---	0.010
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)	---	0.030
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)	---	0.030
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.030

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No.	Substance name	CAS No.	Reporting Limit (%)
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	0.030
223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.030

2. 1 Substances to propose as Substances of Very High Concern(SVHC):

No.	Substance name	CAS No.	Reporting Limit (%)
1	Resorcinol	108-46-3	0.030

Appendix 1 - Full list of tested SVHC:

1. 223 Substances of Very High Concern(SVHC):

No.	Substance name	CAS No.	Reporting Limit (%)
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.050
2	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.050
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
4	Anthracene	120-12-7	0.050
5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
7	Bis(tributyltin) oxide (TBTO)	56-35-9	0.050
8	Cobalt dichloride*	7646-79-9	0.005
9	Diarsenic pentaoxide*	1303-28-2	0.005
10	Diarsenic trioxide*	1327-53-3	0.005
11	Dibutyl phthalate (DBP)	84-74-2	0.050

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No.	Substance name	CAS No.	Reporting Limit (%)
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified(α -HBCDD, β -HBCDD, γ -HBCDD)	25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	0.050
13	Lead hydrogen arsenate*	7784-40-9	0.005
14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
15	Triethyl arsenate*	15606-95-8	0.005
16	2,4-dinitrotoluene	121-14-2	0.050
17	Acrylamide	79-06-1	0.050
18	Anthracene oil	90640-80-5	0.050
19	Anthracene oil, anthracene paste	90640-81-6	0.050
20	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.050
21	Anthracene oil, anthracene paste, distn. lights	91995-17-4	0.050
22	Anthracene oil, anthracene-low	90640-82-7	0.050
23	Diisobutyl phthalate	84-69-5	0.050
24	Lead chromate*	7758-97-6	0.010
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) *	12656-85-8	0.010
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34) *	1344-37-2	0.010
27	Pitch, coal tar, high-temp.	65996-93-2	0.050
28	Tris(2-chloroethyl) phosphate	115-96-8	0.050
29	Ammonium dichromate*	7789-09-5	0.010
30	Boric acid*	10043-35-3, 11113-50-1	0.010

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No.	Substance name	CAS No.	Reporting Limit (%)
31	Disodium tetraborate, anhydrous*	12179-04-3, 1303-96-4, 1330-43-4	0.010
32	Potassium chromate*	7789-00-6	0.010
33	Potassium dichromate*	7778-50-9	0.010
34	Sodium chromate*	7775-11-3	0.010
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.010
36	Trichloroethylene	79-01-6	0.050
37	2-ethoxyethanol	110-80-5	0.050
38	2-methoxyethanol	109-86-4	0.050
39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5, --- 13530-68-2	0.010
40	Chromium trioxide*	1333-82-0	0.010
41	Cobalt(II) carbonate*	513-79-1	0.010
42	Cobalt(II) diacetate*	71-48-7	0.010
43	Cobalt(II) dinitrate*	10141-05-6	0.010
44	Cobalt(II) sulphate*	10124-43-3	0.010
45	1,2,3-trichloropropane	96-18-4	0.050
46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050
48	1-Methyl-2-pyrrolidone (NMP)	872-50-4	0.050
49	2-ethoxyethyl acetate	111-15-9	0.050
50	Hydrazine	302-01-2, 7803-57-8	0.050
51	Strontium chromate*	7789-06-2	0.010
52	1,2-dichloroethane	107-06-2	0.050

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No.	Substance name	CAS No.	Reporting Limit (%)
53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
54	2-Methoxyaniline, o-Anisidine	90-04-0	0.050
55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
56	Aluminosilicate Refractory Ceramic Fibres*	---	0.010
57	Arsenic acid*	7778-39-4	0.010
58	Bis(2-methoxyethyl) ether	111-96-6	0.050
59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
60	Calcium arsenate*	7778-44-1	0.010
61	Dichromium tris(chromate) *	24613-89-6	0.010
62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
63	Lead diazide, Lead azide*	13424-46-9	0.010
64	Lead dipicrate*	6477-64-1	0.010
65	Lead styphnate*	15245-44-0	0.010
66	N,N-dimethylacetamide	127-19-5	0.050
67	Pentazinc chromate octahydroxide*	49663-84-5	0.010
68	Phenolphthalein	77-09-8	0.050
69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.010
70	Trilead diarsenate*	3687-31-8	0.010
71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	---	0.010
72	[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	0.050

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No.	Substance name	CAS No.	Reporting Limit (%)
73	[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050
74	1,2-bis(2-methoxyethoxy)ethane (TEGDME, triglyme)	112-49-2	0.050
75	1,2-dimethoxyethane, ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
76	4,4'-bis(dimethylamino)benzophenone (Michler's ketone)	90-94-8	0.050
77	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol§	561-41-1	0.050
78	Diboron trioxide*	1303-86-2	0.010
79	Formamide	75-12-7	0.050
80	Lead(II) bis(methanesulfonate) *	17570-76-2	0.010
81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
82	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC)	2451-62-9	0.050
83	α,α-Bis[4-(dimethylamino)phenyl]-4(phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)§	6786-83-0	0.050
84	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β-TGIC)	59653-74-6	0.050
85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.010
86	1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear	84777-06-0	0.050
87	1,2-diethoxyethane	629-14-1	0.050
88	1-bromopropane (n-propyl bromide)	106-94-5	0.050
89	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050

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No.	Substance name	CAS No.	Reporting Limit (%)
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (covering well-defined substances and UVCB substances, polymers and homologues)	---	0.050
91	4,4'-methylenedi-o-toluidine	838-88-0	0.050
92	4,4'-oxydianiline and its salts	101-80-4	0.050
93	4-aminoazobenzene	60-09-3	0.050
94	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.050
95	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)	---	0.050
96	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.050
97	Acetic acid, lead salt, basic*	51404-69-4	0.010
98	Biphenyl-4-ylamine	92-67-1	0.050
99	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	0.050
100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.050
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	0.050
102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
103	Diethyl sulphate	64-67-5	0.050
104	Diisopentyl phthalate	605-50-5	0.050
105	Dimethyl sulphate	77-78-1	0.050
106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.050
107	Dioxobis(stearato)trilead*	12578-12-0	0.010

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No.	Substance name	CAS No.	Reporting Limit (%)
108	Fatty acids, C16-18, lead salts*	91031-62-8	0.010
109	Furan	110-00-9	0.050
110	Henicosaflluoroundecanoic acid	2058-94-8	0.050
111	Heptacosaflluorotetradecanoic acid	376-06-7	0.050
112	Hexahydromethylphthalic 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	0.050
113	Lead bis(tetrafluoroborate) *	13814-96-5	0.010
114	Lead cyanamidate*	20837-86-9	0.010
115	Lead dinitrate*	10099-74-8	0.010
116	Lead monoxide (lead oxide) *	1317-36-8	0.010
117	Lead oxide sulfate*	12036-76-9	0.010
118	Orange lead (lead tetroxide) *	1314-41-6	0.010
119	Lead titanium trioxide*	12060-00-3	0.010
120	Lead titanium zirconium oxide*	12626-81-2	0.010
121	Methoxyacetic acid	625-45-6	0.050
122	Methyloxirane (Propylene oxide)	75-56-9	0.050
123	N,N-dimethylformamide	68-12-2	0.050
124	N-methylacetamide	79-16-3	0.050
125	N-pentyl-isopentylphthalate	776297-69-9	0.050
126	o-aminoazotoluene	97-56-3	0.050
127	o-toluidine	95-53-4	0.050
128	Pentacosaflluorotridecanoic acid	72629-94-8	0.050
129	Pentalead tetraoxide sulphate*	12065-90-6	0.010
130	Pyrochlore, antimony lead yellow*	8012-00-8	0.010
131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.010

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No.	Substance name	CAS No.	Reporting Limit (%)
132	Silicic acid, lead salt*	11120-22-2	0.010
133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.010
134	Tetraethyllead*	78-00-2	0.010
135	Tetralead trioxide sulphate*	12202-17-4	0.010
136	Tricosafuorododecanoic acid	307-55-1	0.050
137	Trilead bis(carbonate) dihydroxide*	1319-46-6	0.010
138	Trilead dioxide phosphonate*	12141-20-7	0.010
139	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)	---	0.050
140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.050
141	Cadmium oxide*	1306-19-0	0.010
142	Cadmium※	7440-43-9	0.010
143	Dipentyl phthalate (DPP)	131-18-0	0.050
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
145	Cadmium sulphide*	1306-23-6	0.010
146	Diethyl phthalate	84-75-3	0.050
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050

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No.	Substance name	CAS No.	Reporting Limit (%)
148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-di sulphonate (C.I. Direct Black 38)	1937-37-7	0.050
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.050
150	Lead di(acetate) *	301-04-2	0.010
151	Trixylyl phosphate	25155-23-1	0.050
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.050
153	Cadmium chloride*	10108-64-2	0.010
154	Sodium perborate, perboric acid, sodium salt*	---	0.010
155	Sodium peroxometaborate*	7632-04-4	0.010
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphen ol (UV-328)	25973-55-1	0.050
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.050
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (DOTE)	15571-58-1	0.050
159	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]t hio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannat etradecanoate (reaction mass of DOTE and MOTE)	---	0.050
160	Cadmium fluoride*	7790-79-6	0.010
161	Cadmium sulphate*	10124-36-4, 31119-53-6	0.010

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No.	Substance name	CAS No.	Reporting Limit (%)
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)	68515-51-5, 68648-93-1	0.050
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 stereoisomers of [1] and [2] or any combination thereof]	---	0.050
164	1,3-propanesultone	1120-71-4	0.050
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	0.050
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.050
167	Nitrobenzene	98-95-3	0.050
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	0.050
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.050
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.050
171	4-heptylphenol, branched and linear	---	0.050
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7, 335-76-2, 3830-45-3	0.050
173	P-(1,1-dimethylpropyl)phenol	80-46-6	0.050
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)	---	0.050
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloro-pentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	---	0.050

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No.	Substance name	CAS No.	Reporting Limit (%)
176	Benz[a]anthracene	56-55-3, 1718-53-2	0.050
177	Cadmium nitrate*	10022-68-1, 10325-94-7	0.010
178	Cadmium carbonate *	513-78-0	0.010
179	Cadmium hydroxide*	21041-95-2	0.010
180	Chrysene	218-01-9, 1719-03-5	0.050
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	---	0.050
182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride) (TMA)	552-30-7	0.050
183	Dicyclohexyl phthalate (DCHP)	84-61-7	0.050
184	Benzo[ghi]perylene	191-24-2	0.050
185	Decamethylcyclopentasiloxane (D5)	541-02-6	0.050
186	Disodium octaborate*	12008-41-2	0.010
187	Dodecamethylcyclohexasiloxane(D6)	540-97-6	0.050
188	Ethylenediamine	107-15-3	0.050
189	Lead※	7439-92-1	0.005
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.050
191	Terphenyl hydrogenated	61788-32-7	0.050
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.050
193	Benzo[k]fluoranthene	207-08-9	0.050
194	Fluoranthene	206-44-0	0.050
195	Phenanthrene	85-01-8	0.050
196	Pyrene	129-00-0	0.050

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No.	Substance name	CAS No.	Reporting Limit (%)
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one	15087-24-8	0.050
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	---	0.050
199	4-tert-butylphenol	98-54-4	0.050
200	2-methoxyethyl acetate	110-49-6	0.050
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	---	0.050
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	0.050
203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	0.050
204	Diisohexyl phthalate	71850-09-4	0.050
205	Perfluorobutane sulfonic acid (PFBS) and its salts	---	0.050
206	1-vinylimidazole	1072-63-5	0.050
207	2-methylimidazole	693-98-1	0.050
208	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0.050
209	Butyl 4-hydroxybenzoate(Butylparaben)	94-26-8	0.050
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.050
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	---	0.050
212	1,4-dioxane	123-91-1	0.050
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	0.050

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No.	Substance name	CAS No.	Reporting Limit (%)
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	---	0.050
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	0.050
216	Glutaral	111-30-8	0.050
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	---	0.050
218	Orthoboric acid, sodium salt*	---	0.010
219	Phenol, alkylation products (mainly in para position) with C12-rich branched alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	---	0.050
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)	---	0.050
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.050
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	0.050
223	Tris(2-methoxyethoxy)vinylsilane	1067-53-4	0.050

2. 1 Substances to propose as Substances of Very High Concern(SVHC):

No.	Substance name	CAS No.	Reporting Limit (%)
1	Resorcinol	108-46-3	0.050

Annex 2 - REACH obligation:

1. Concerning article(s):

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Communication:

Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a 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 in the Candidate List.

Notification:

In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).

2. Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.

If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

3. Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and its amendments, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:

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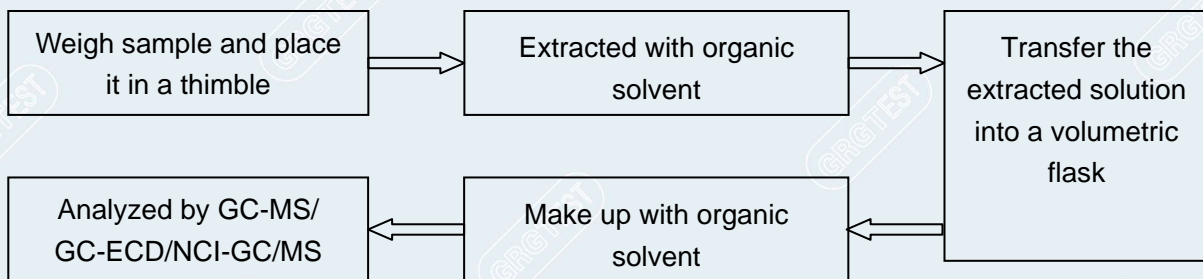
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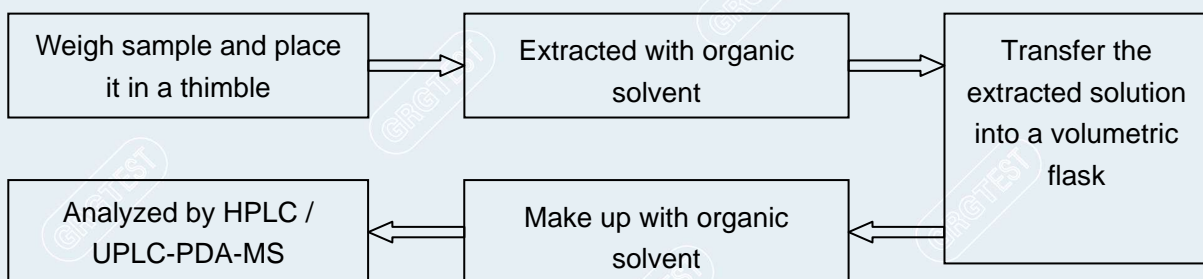
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- (a) a substance posing human health or environmental hazards in an individual concentration of $\geq 1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or $\geq 0.2\%$ by volume for gaseous mixtures; or
- (b) a substance that is PBT, or vPvB in an individual concentration of $\geq 0.1\%$ by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of $\geq 0.1\%$ by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.

Test Process (1):



Test Process (2):



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Test Process (3):

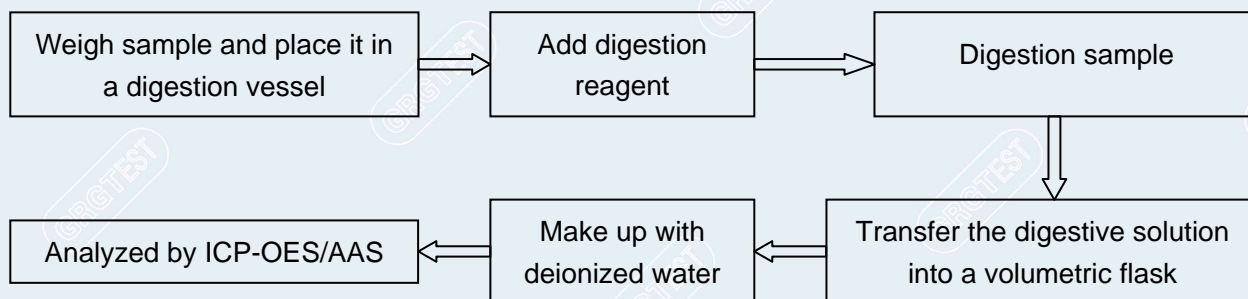
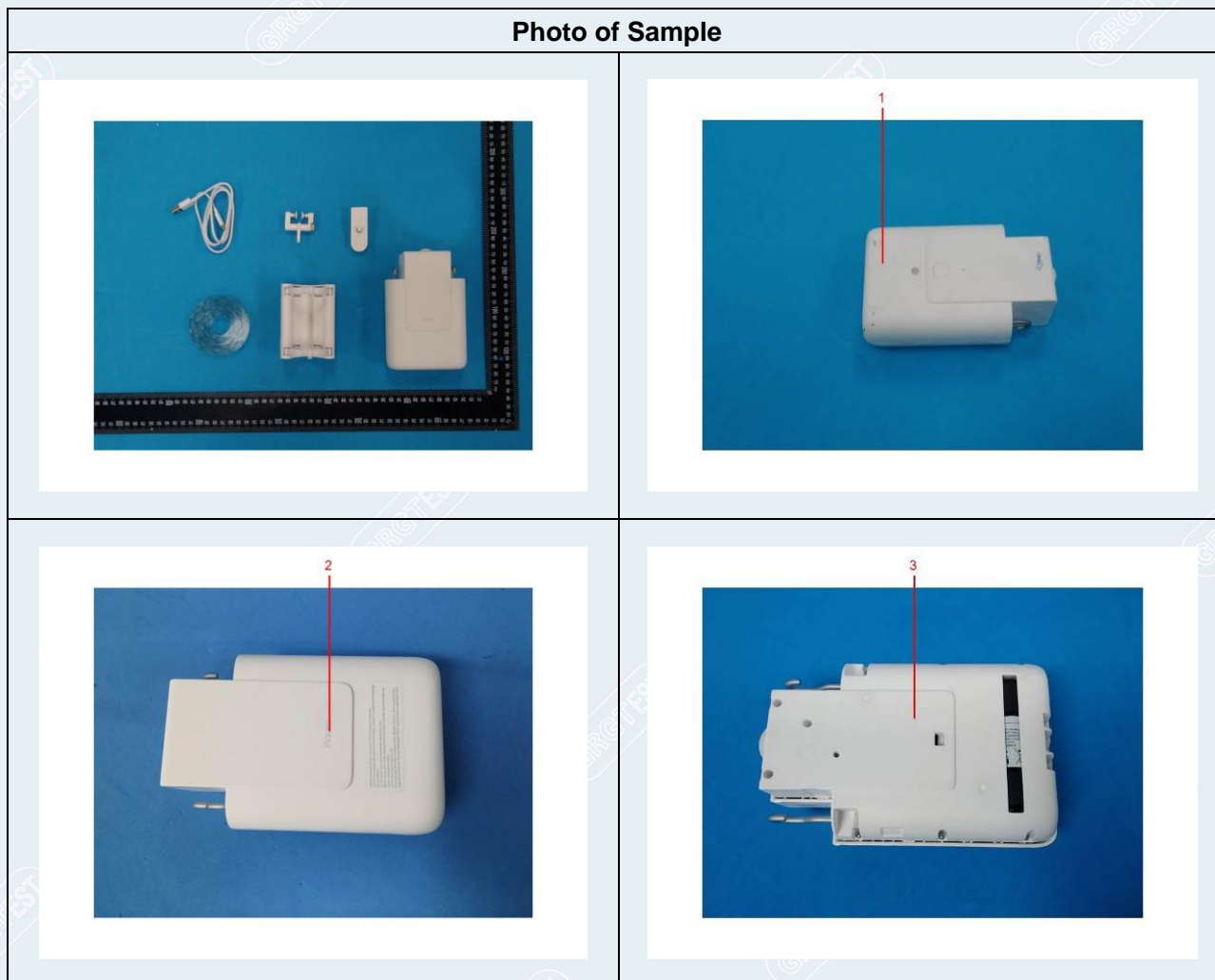
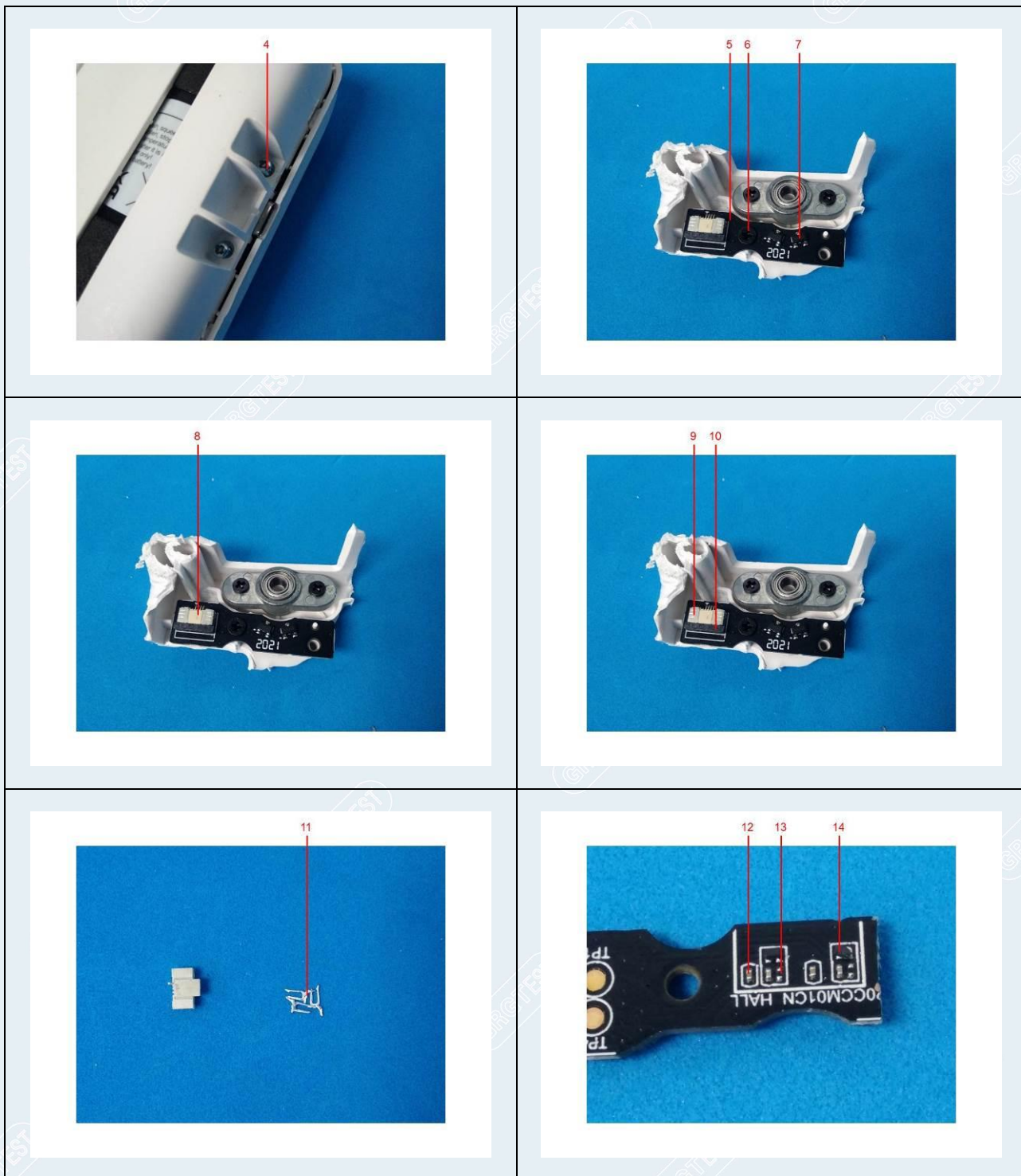


Photo of Sample



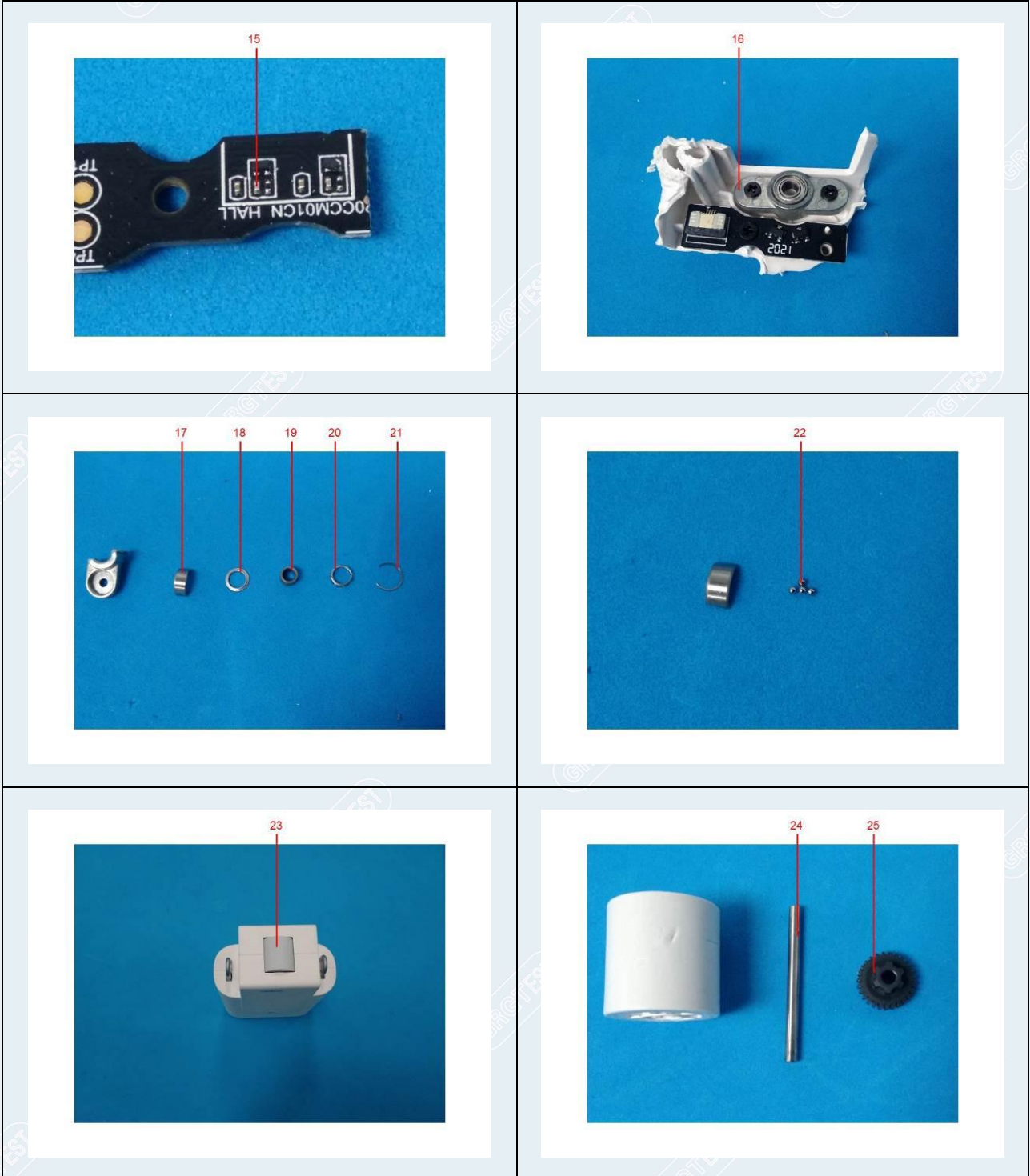
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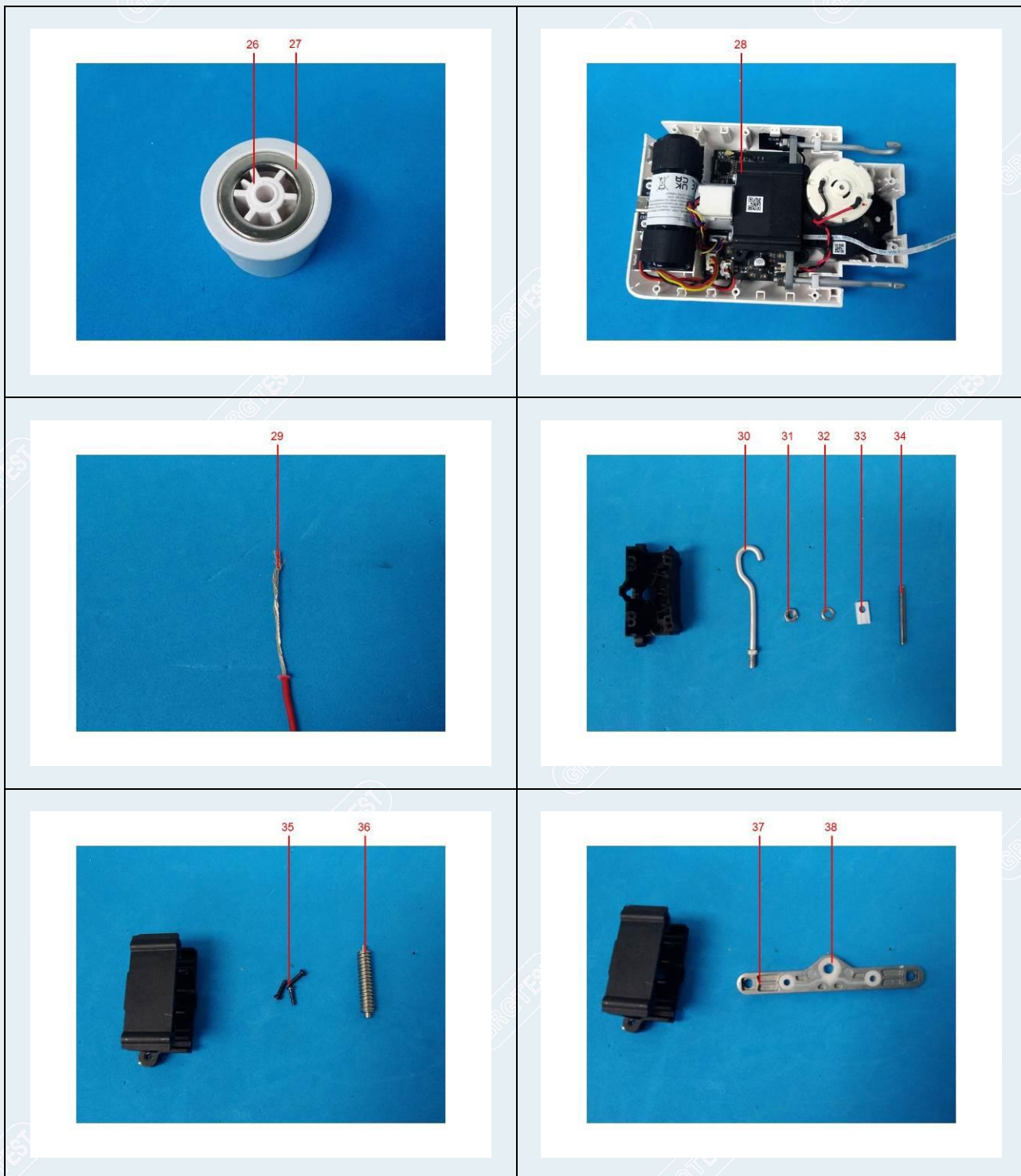
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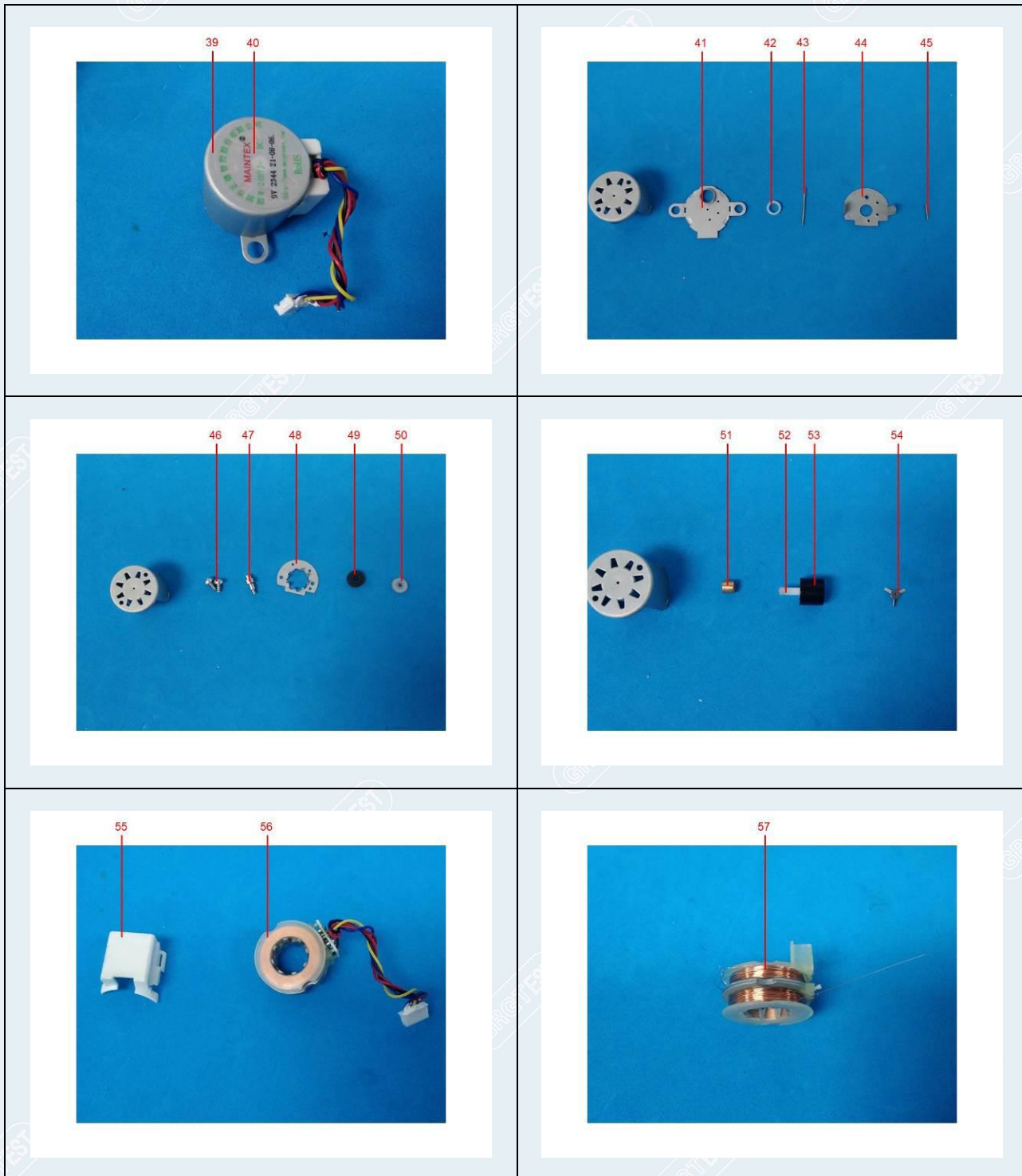
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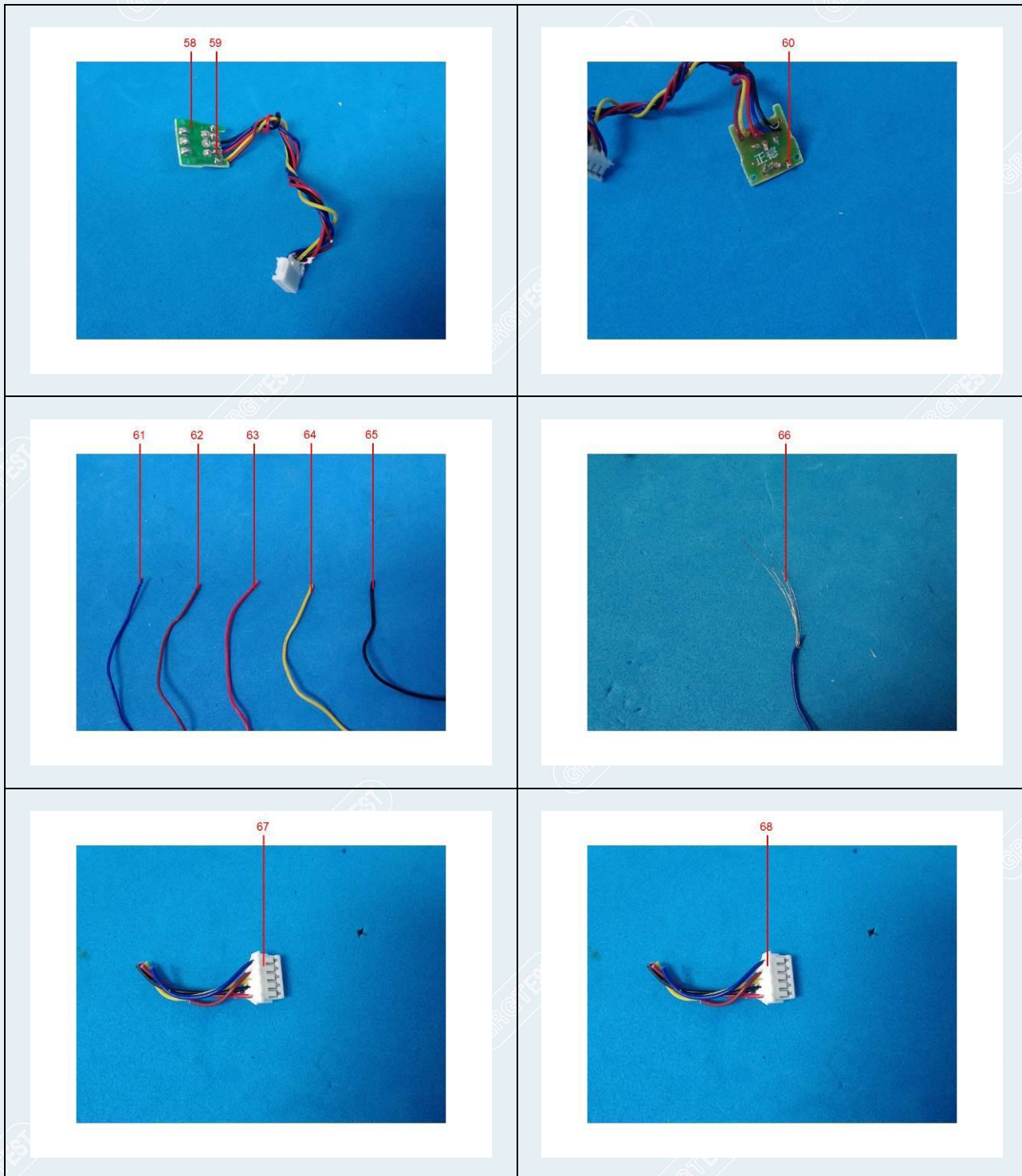
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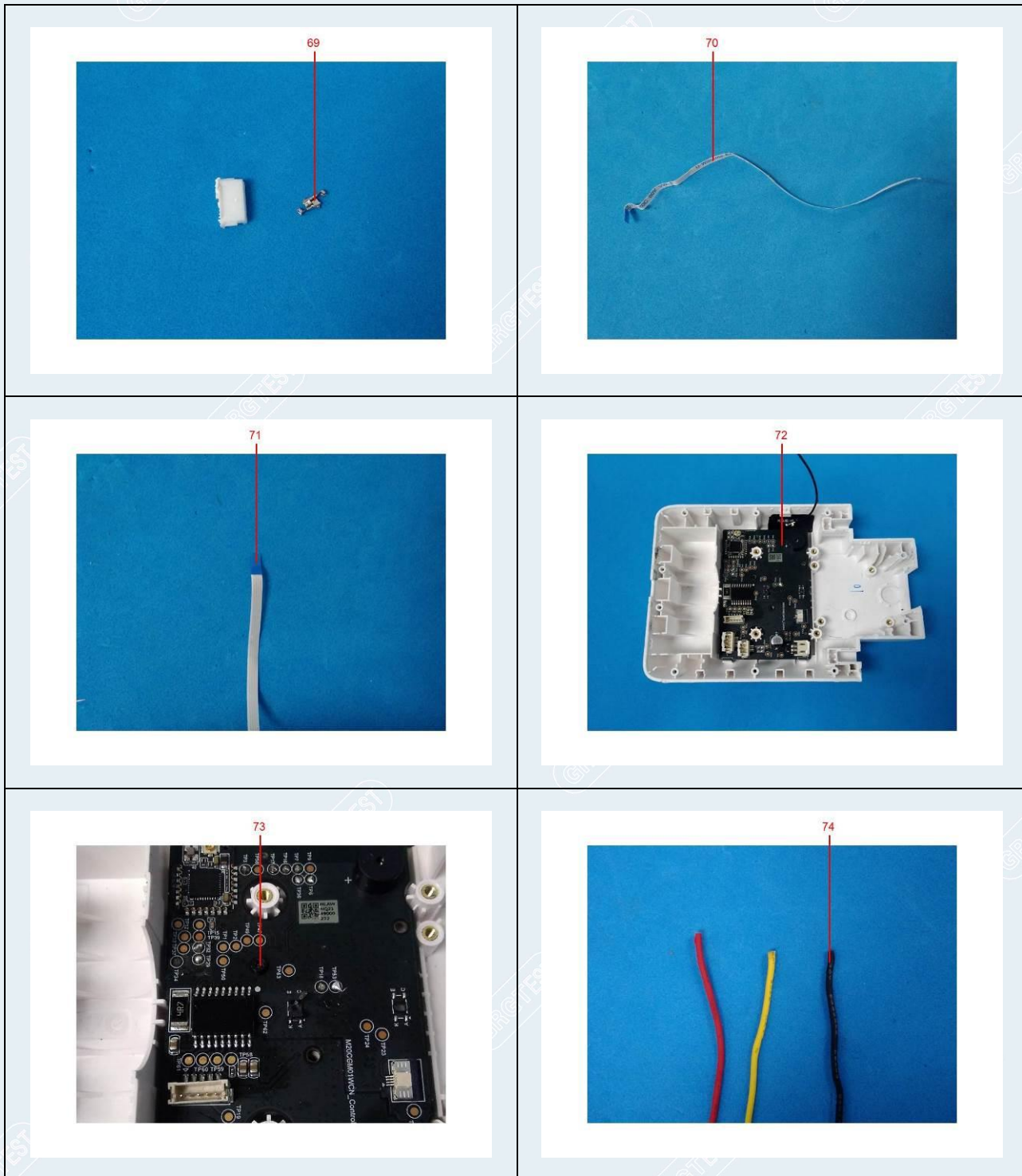
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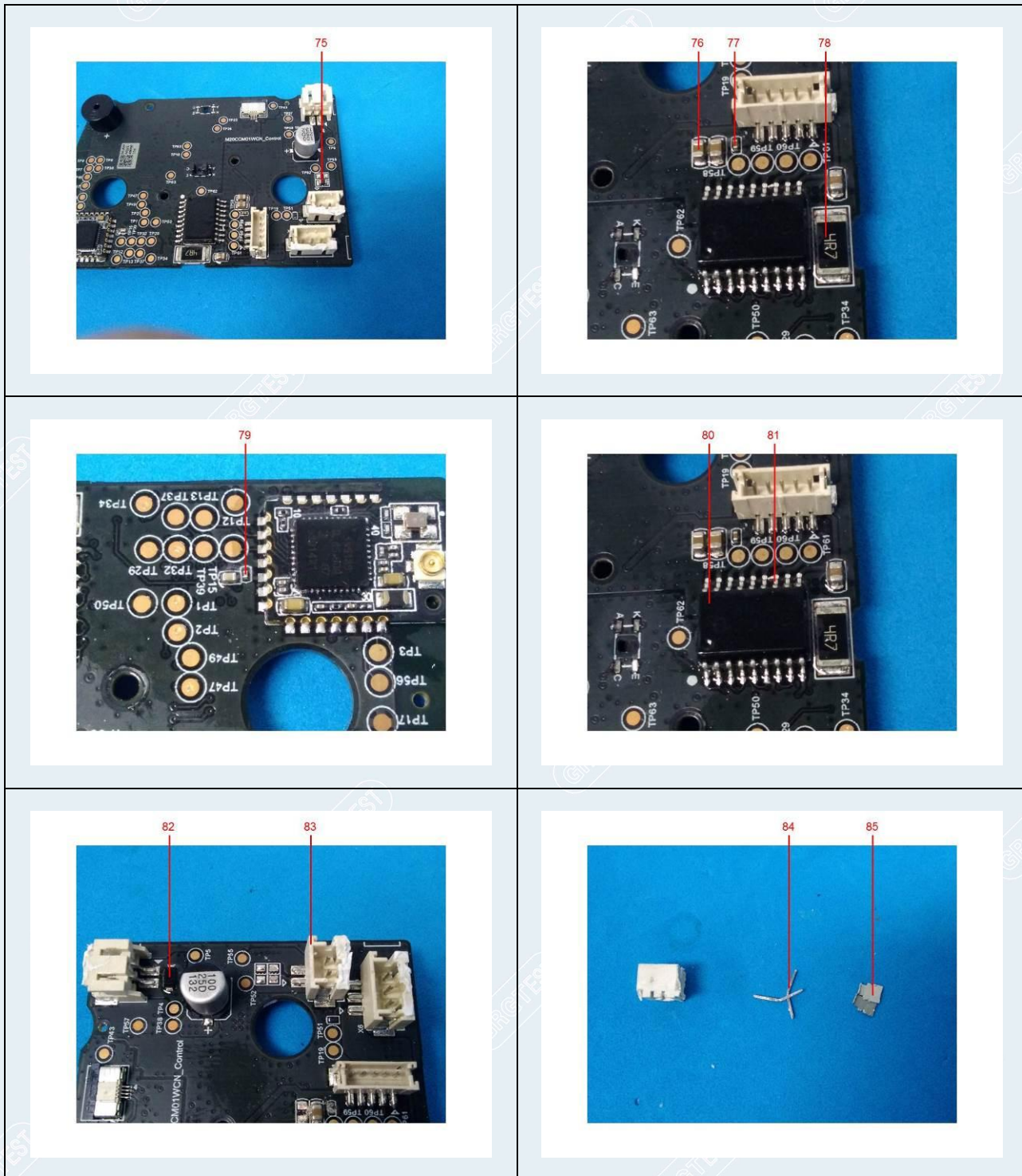
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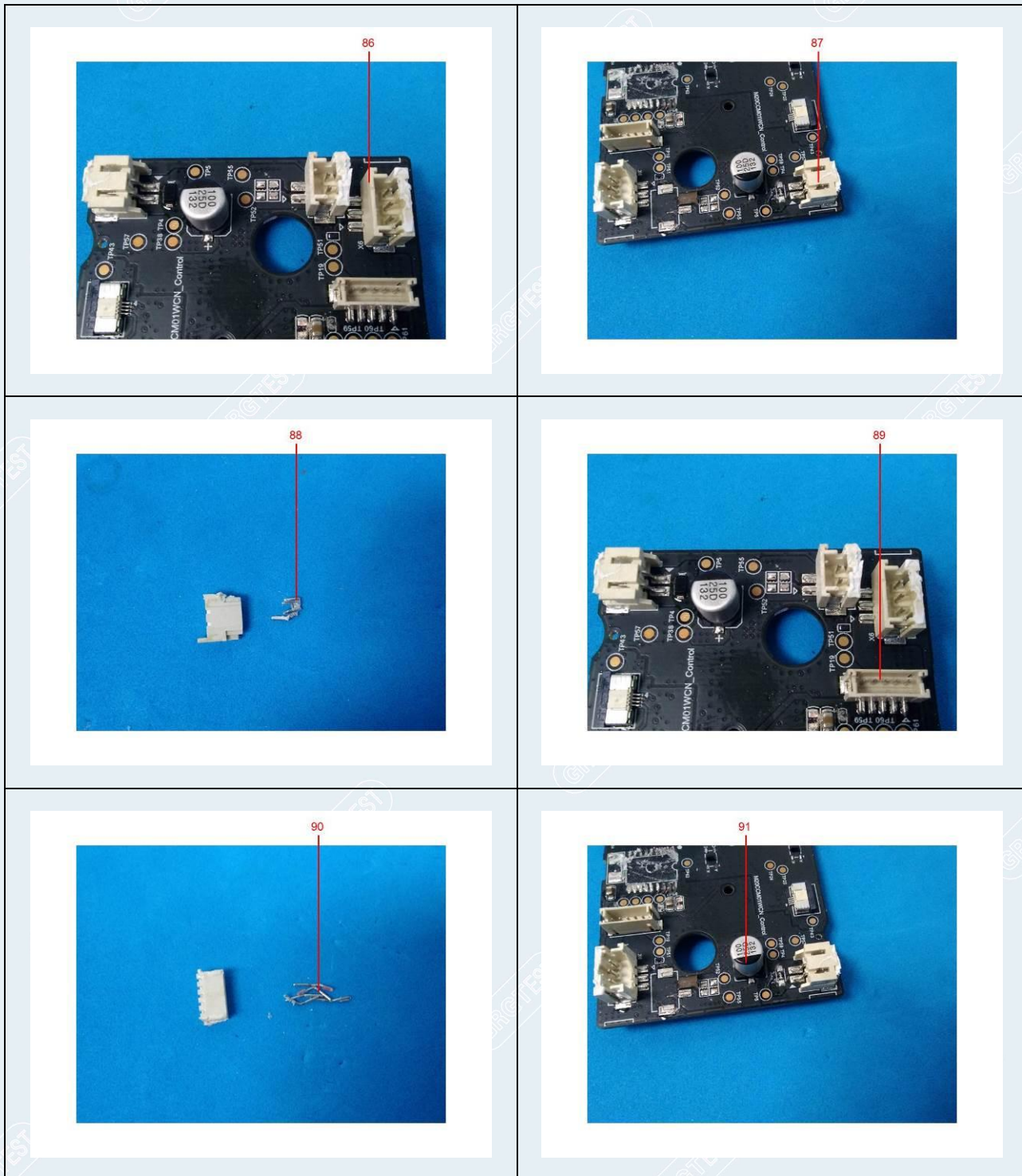
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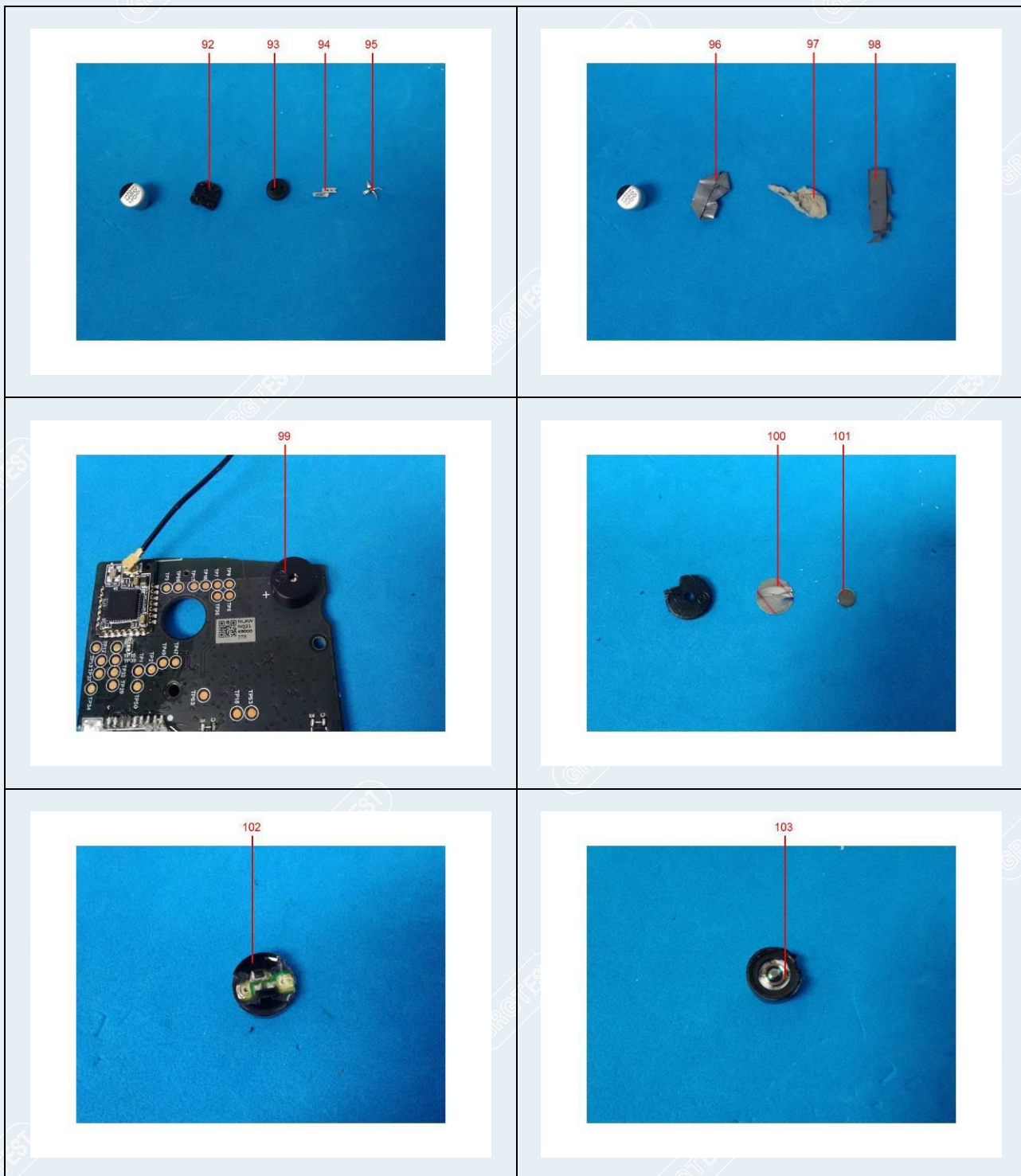
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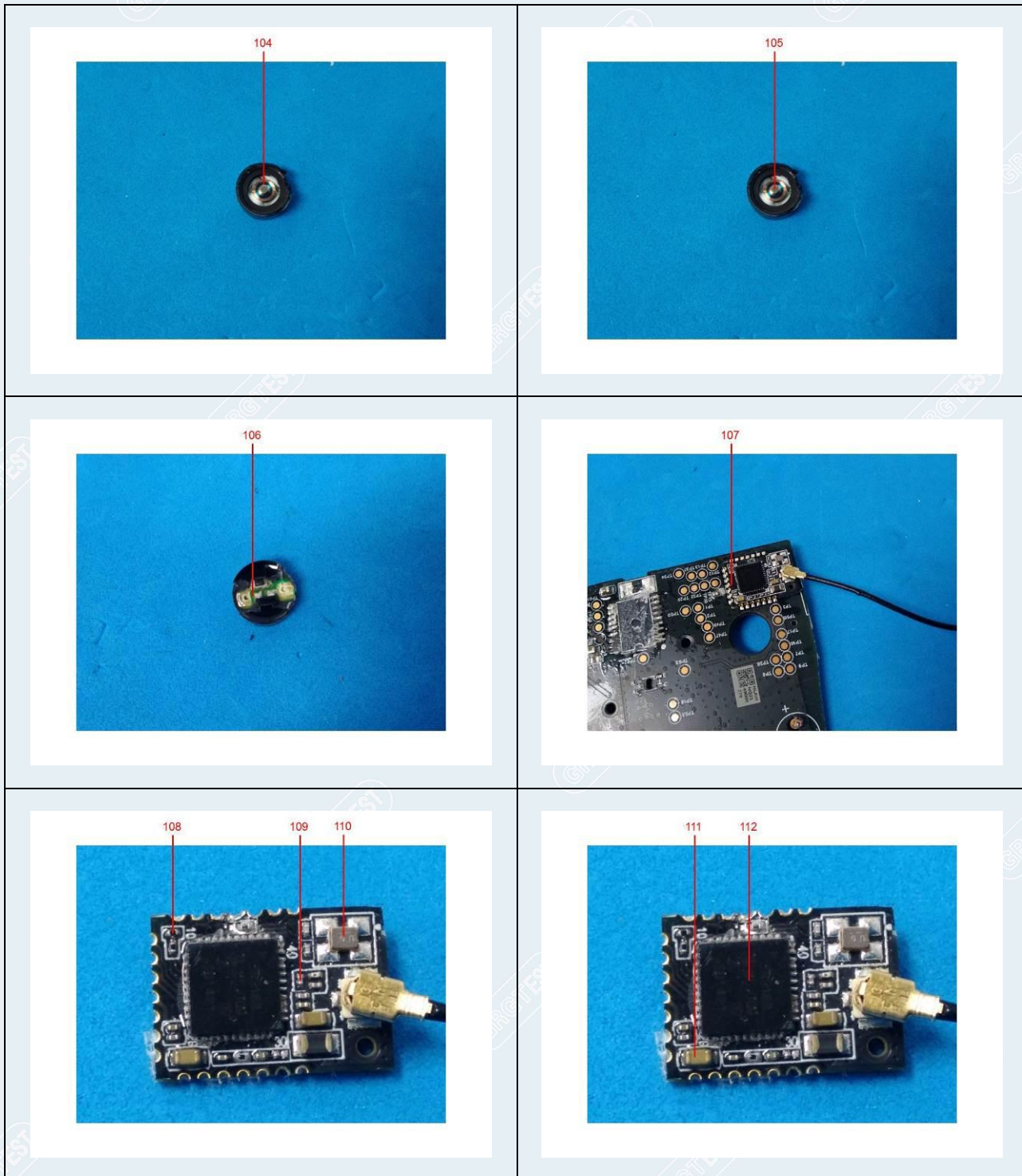
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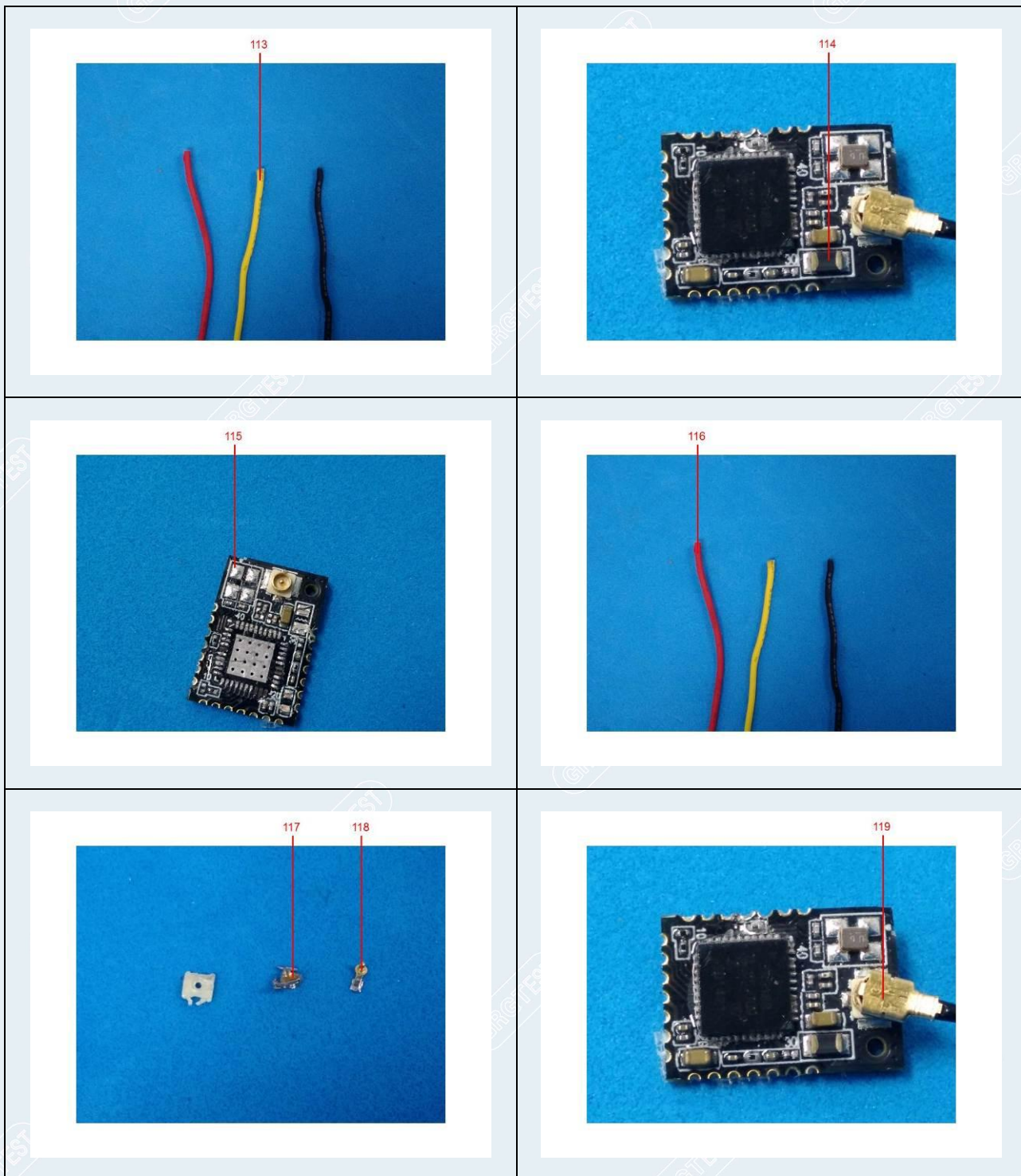
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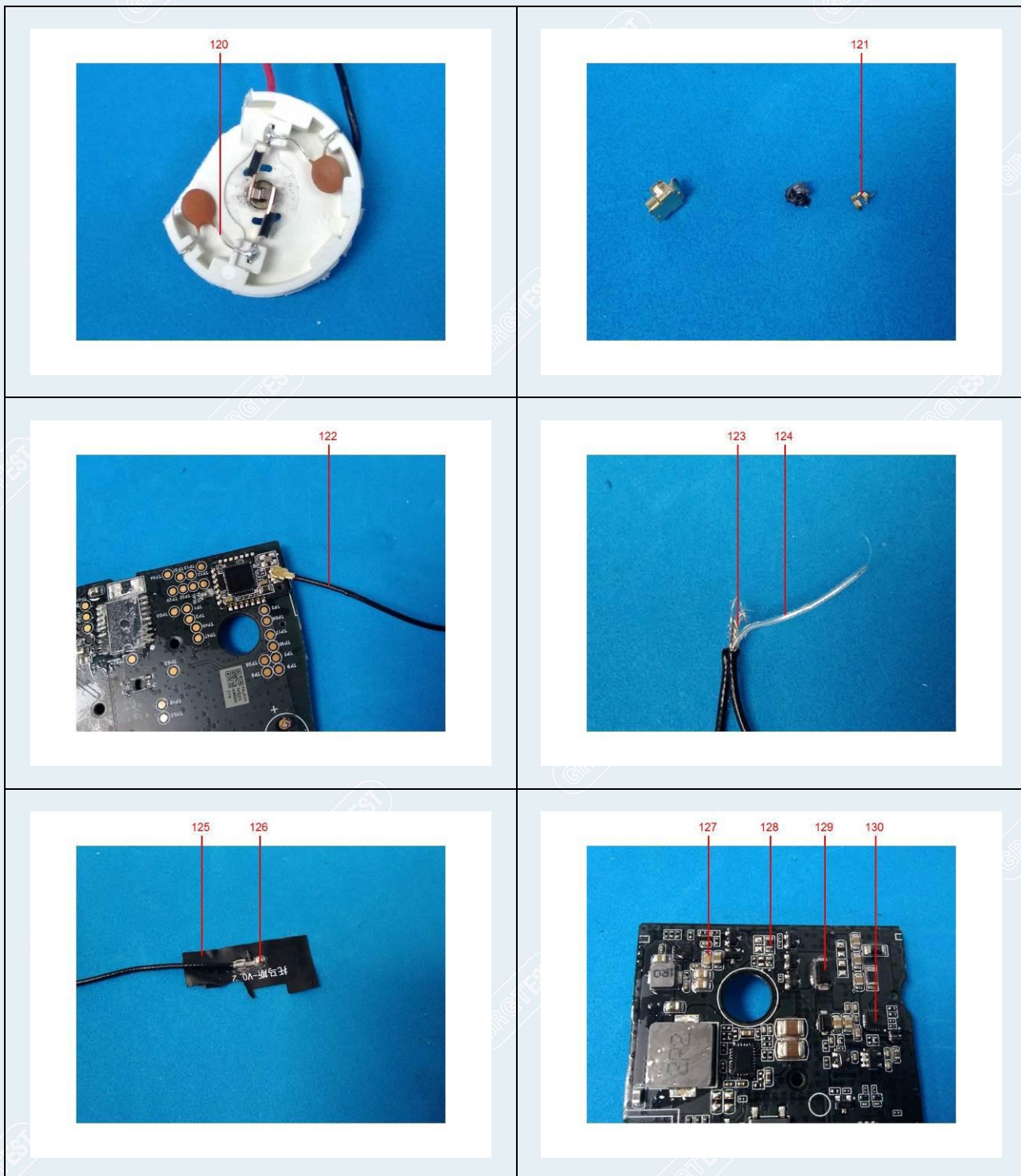
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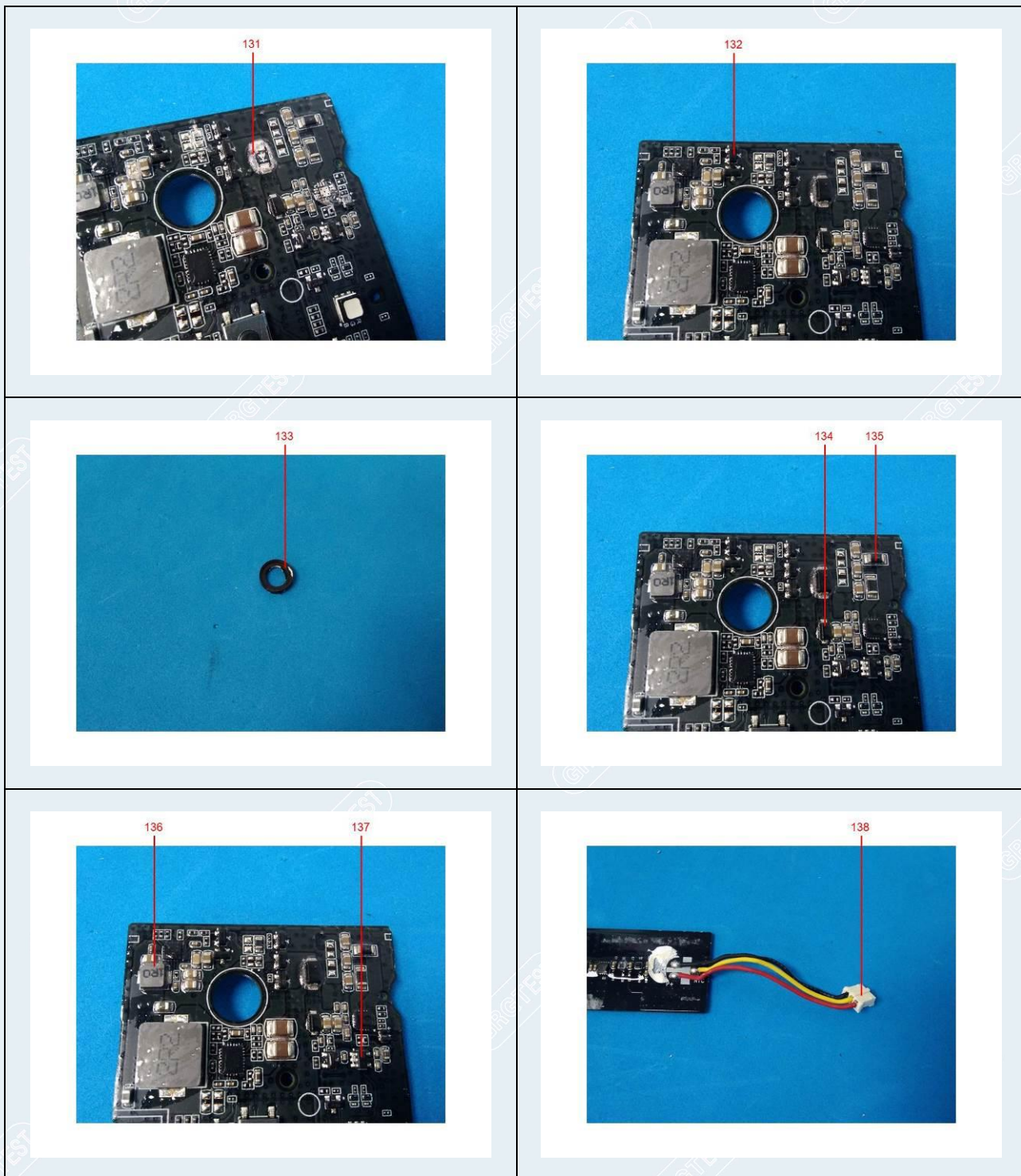
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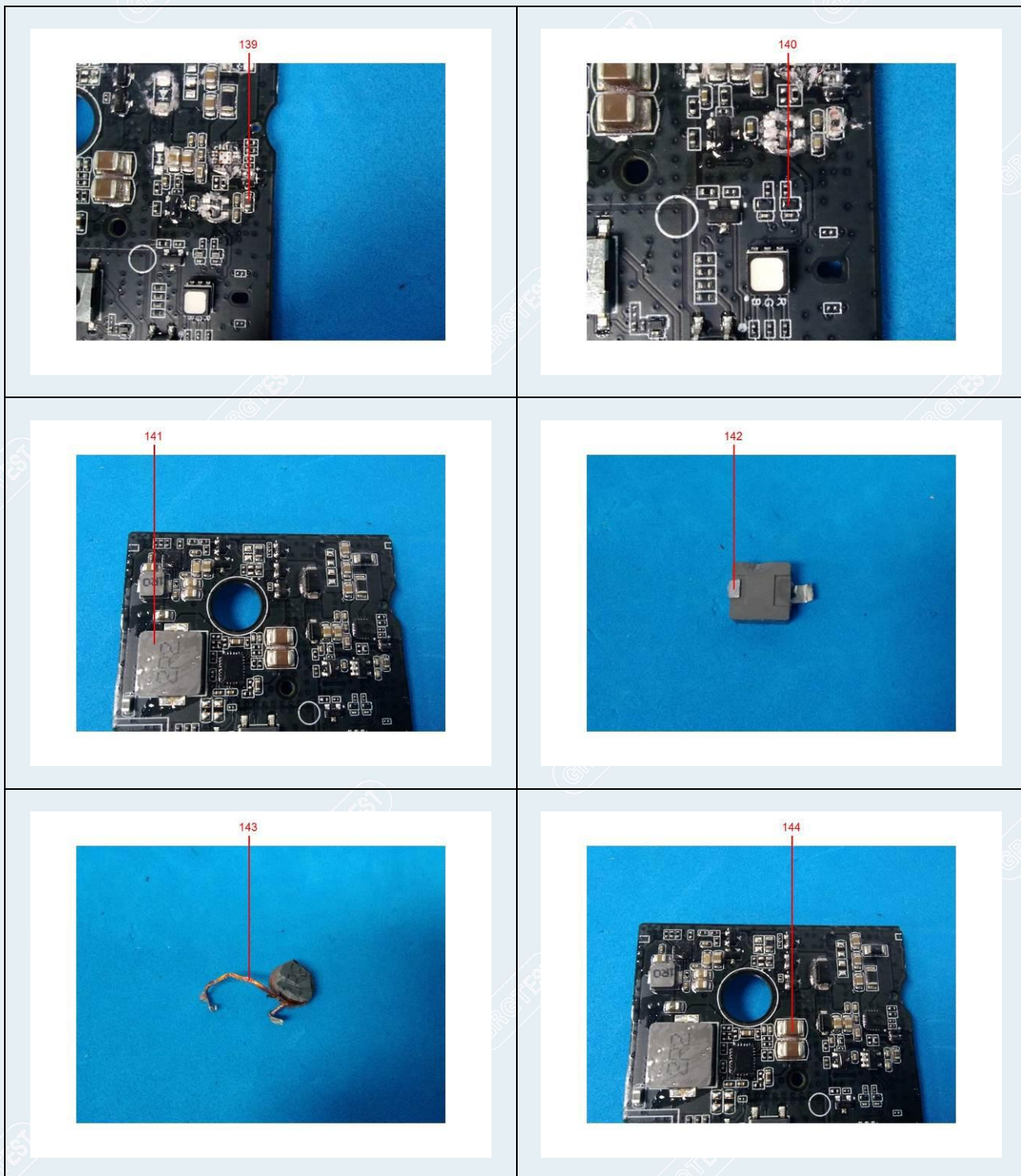
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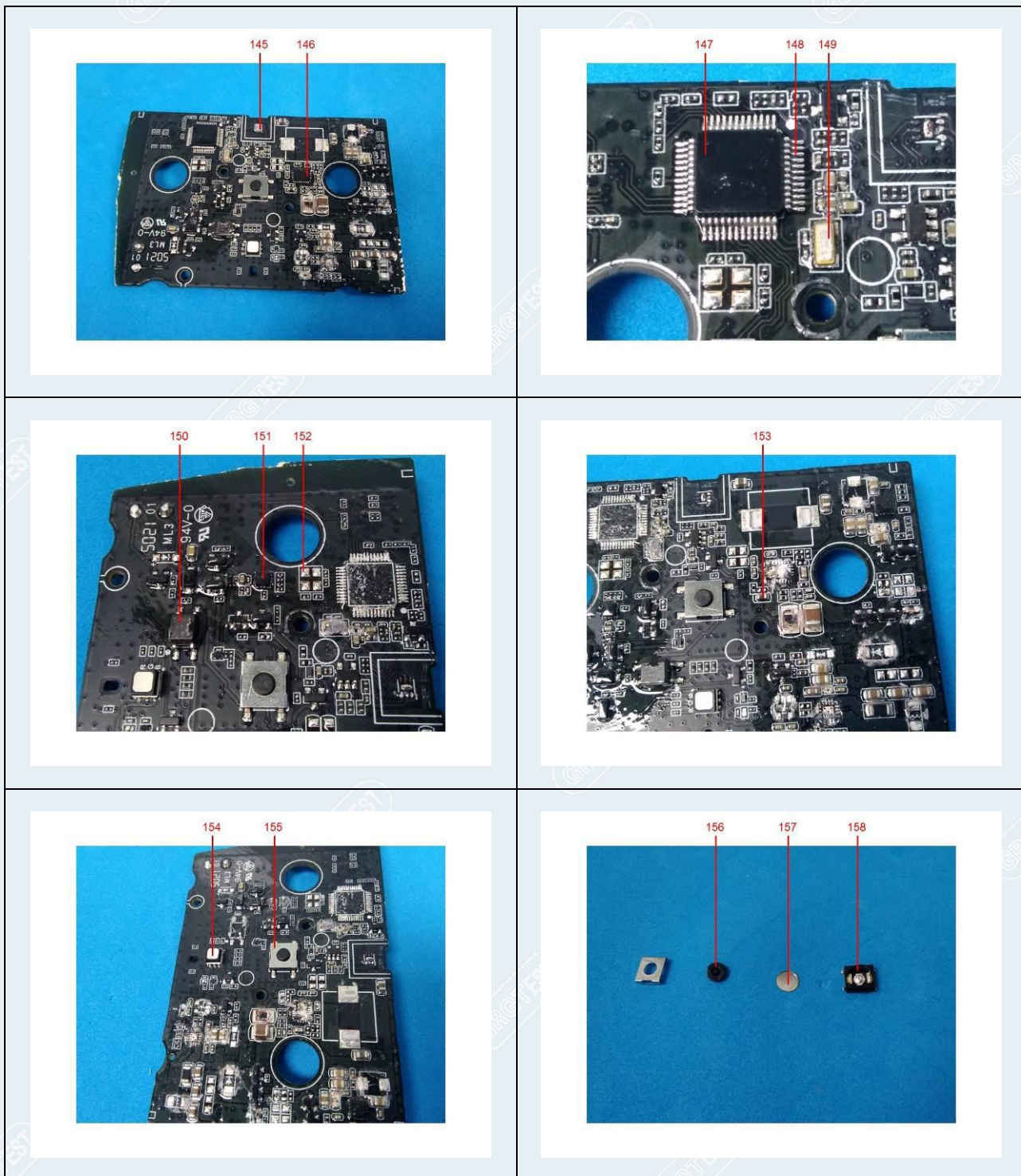
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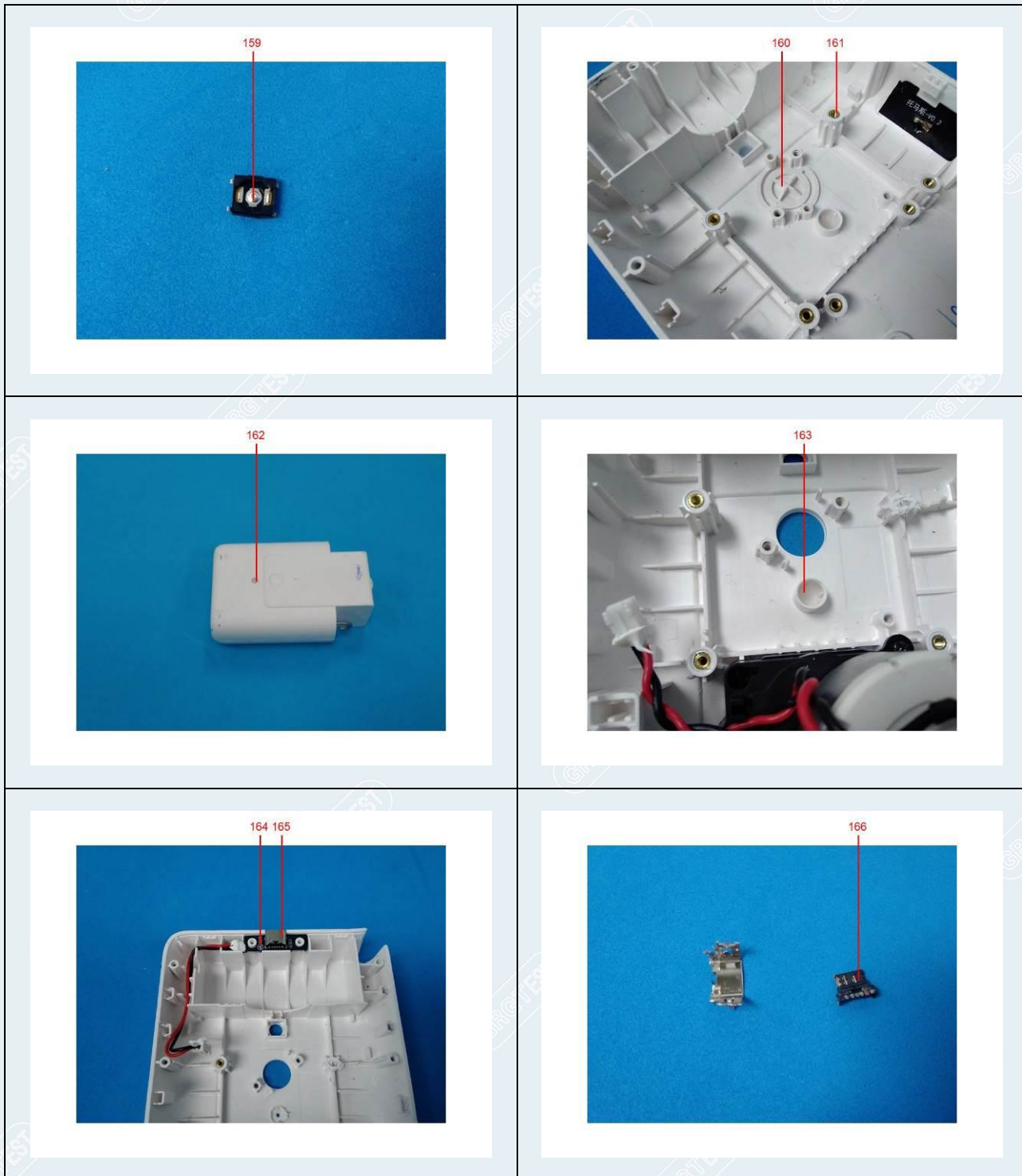
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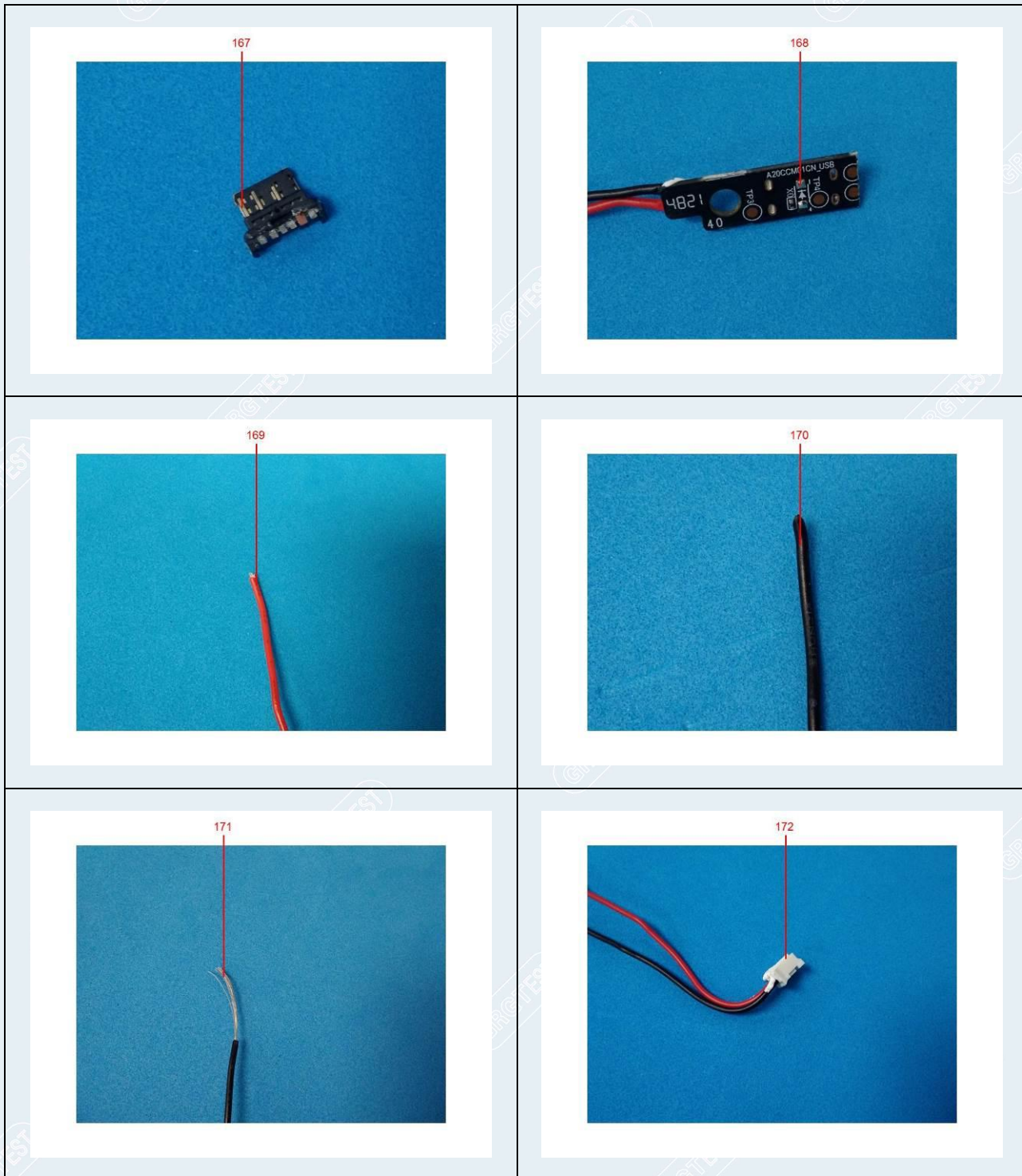
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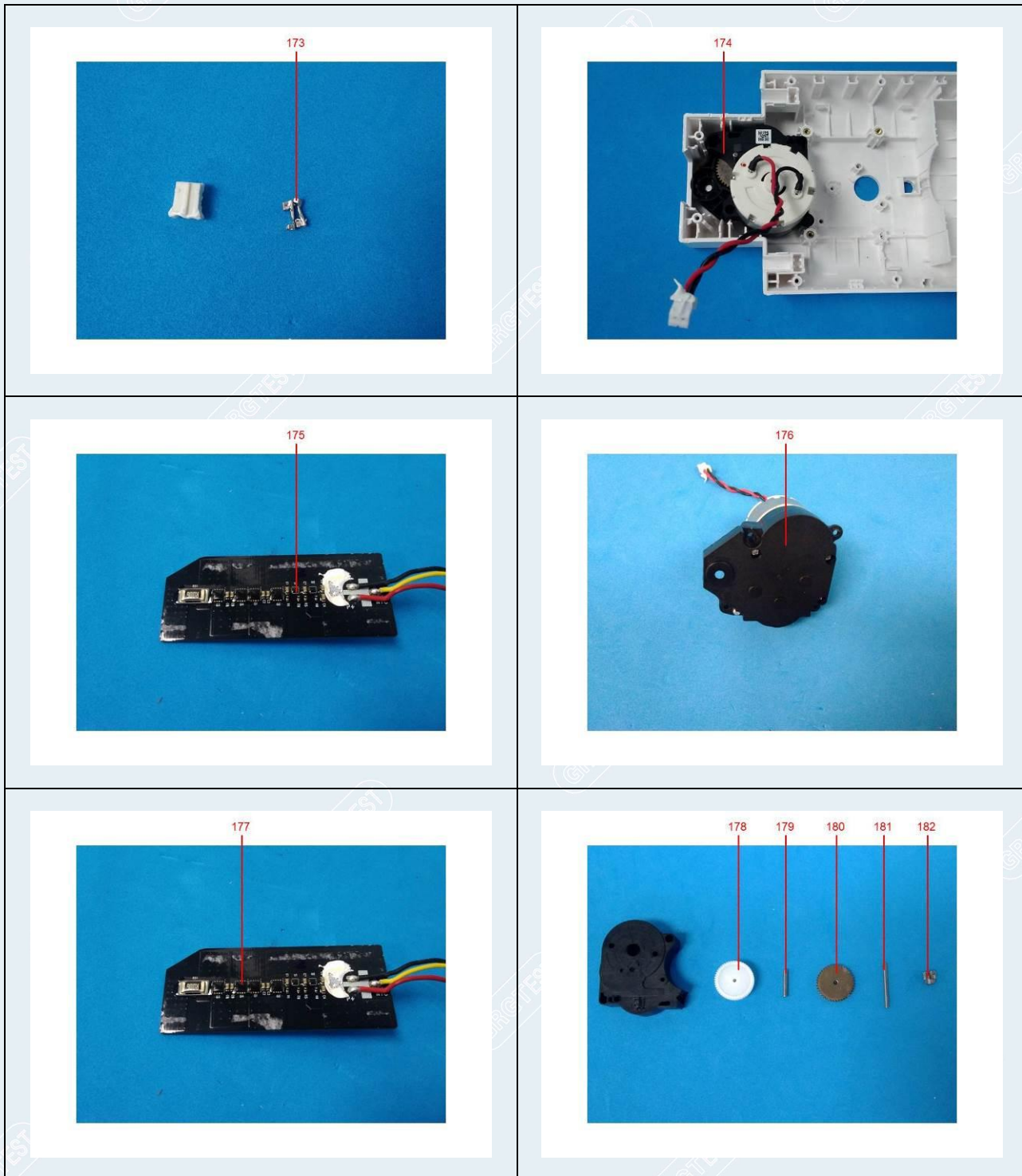
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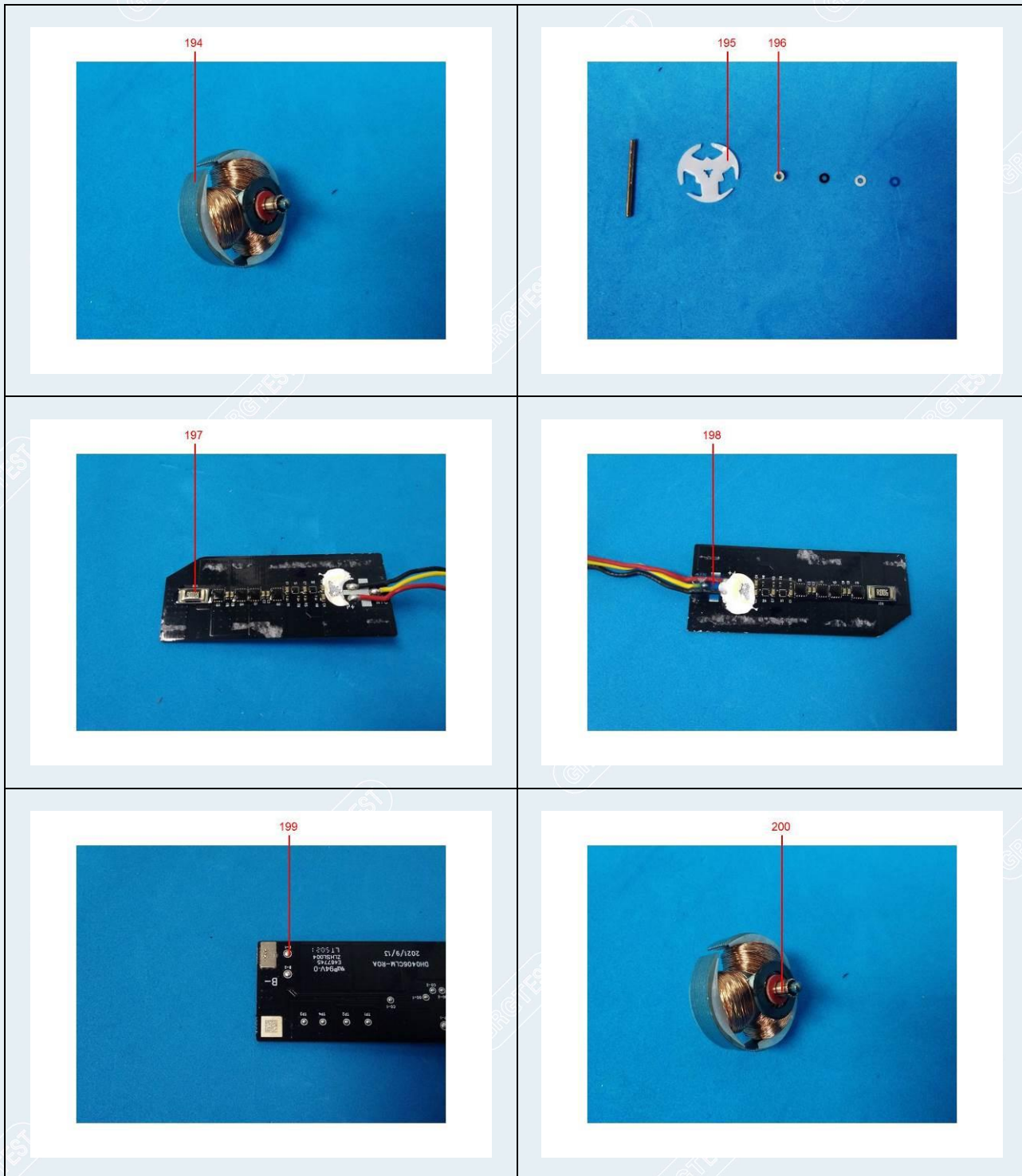
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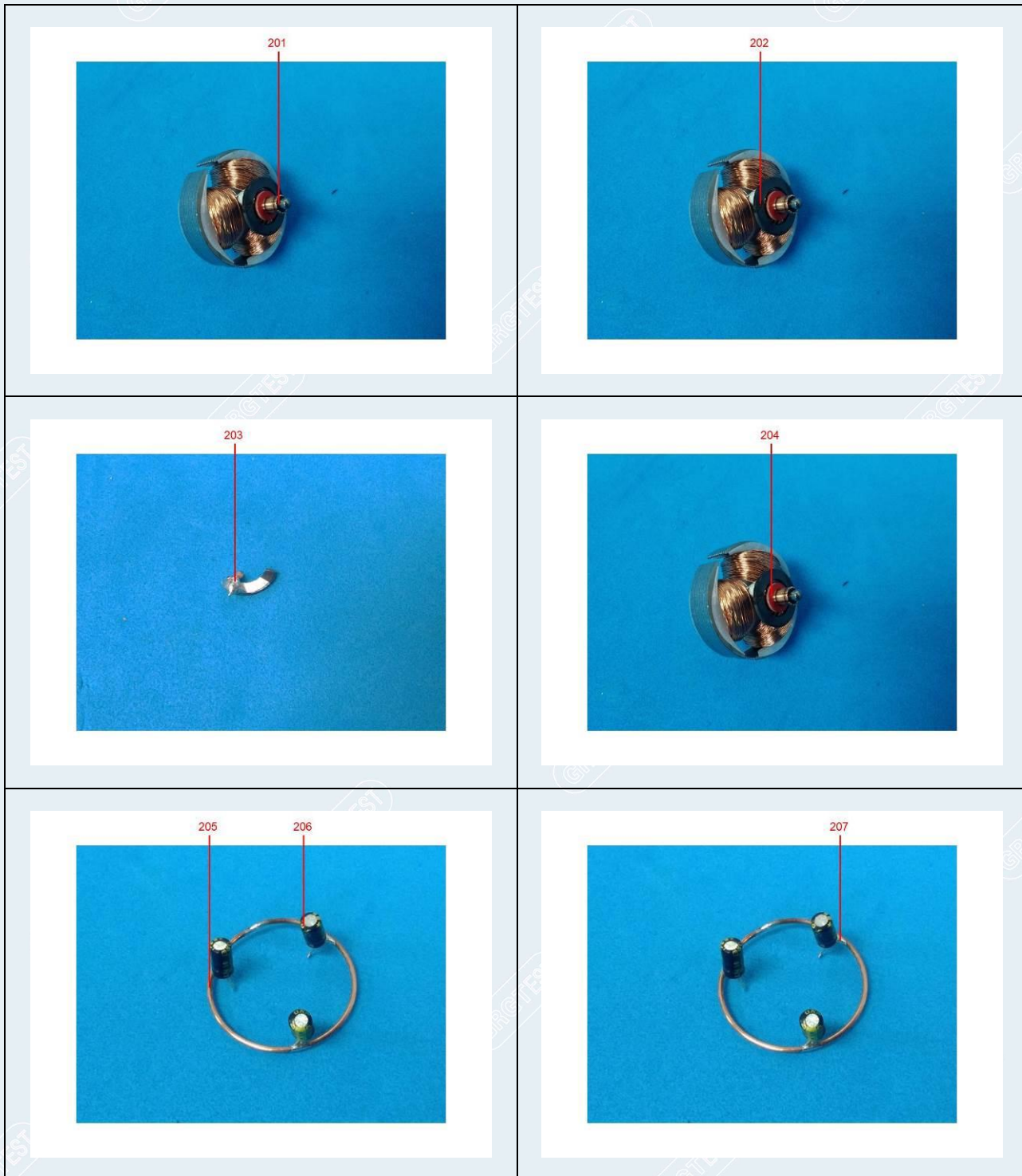
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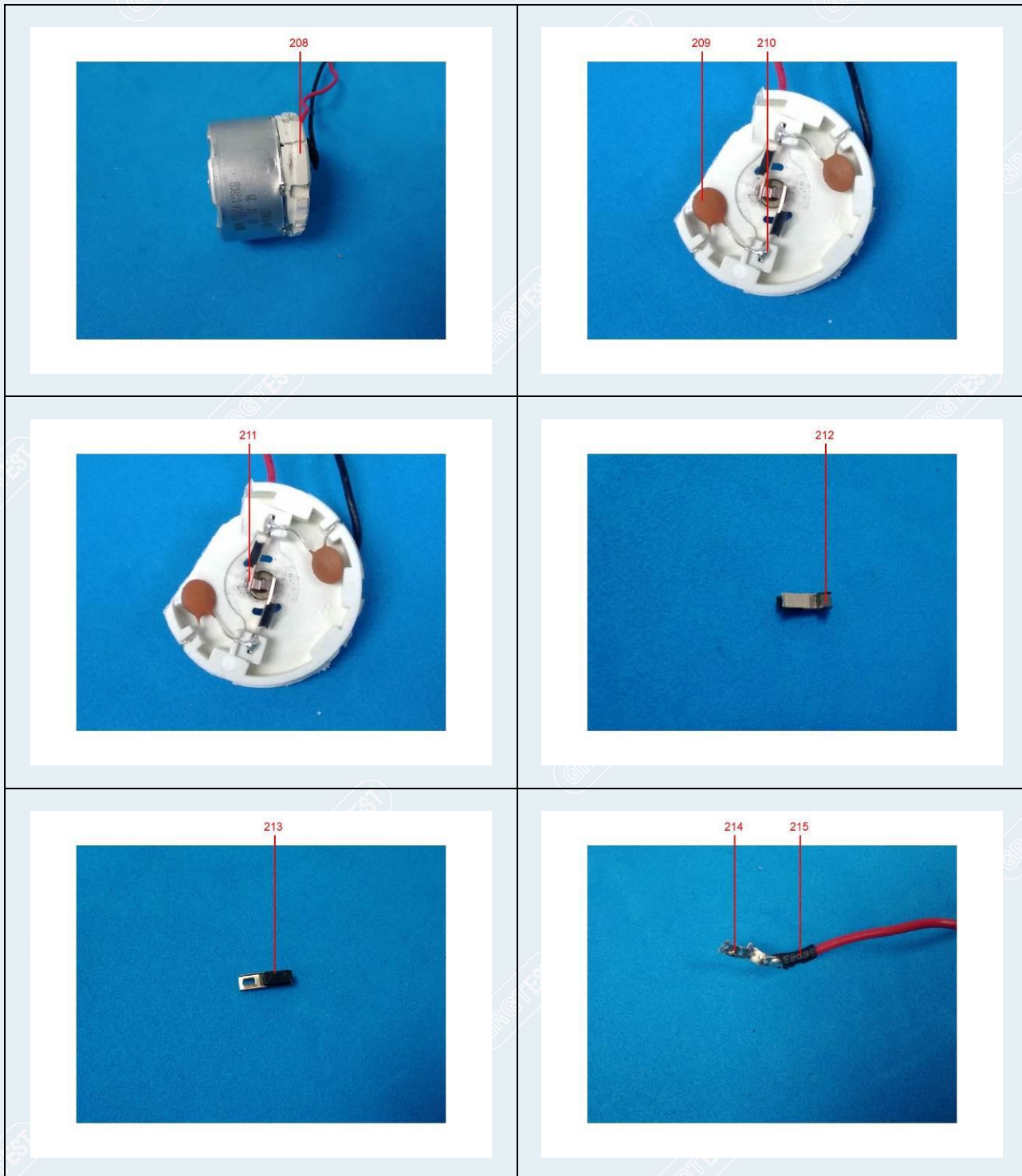
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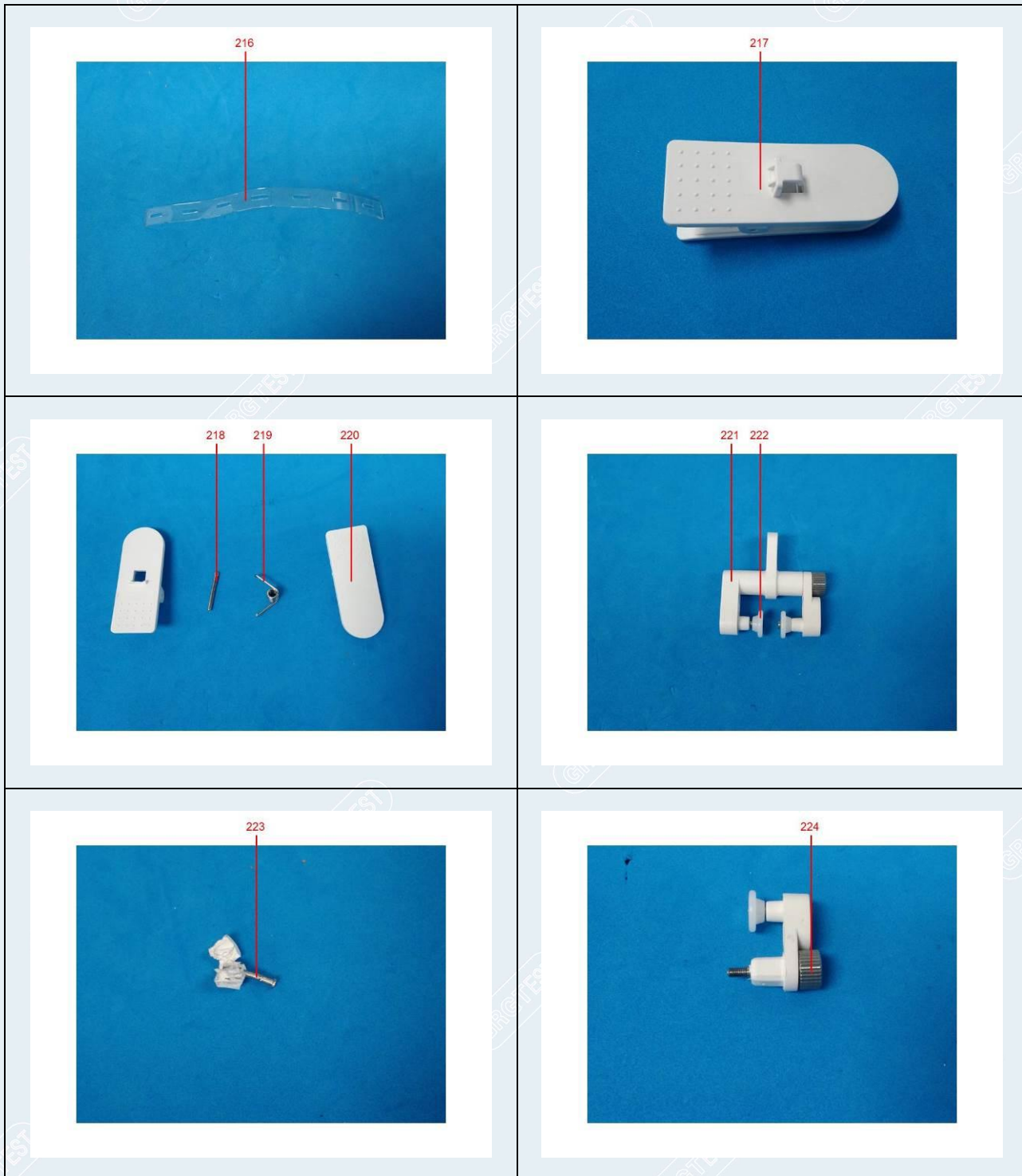
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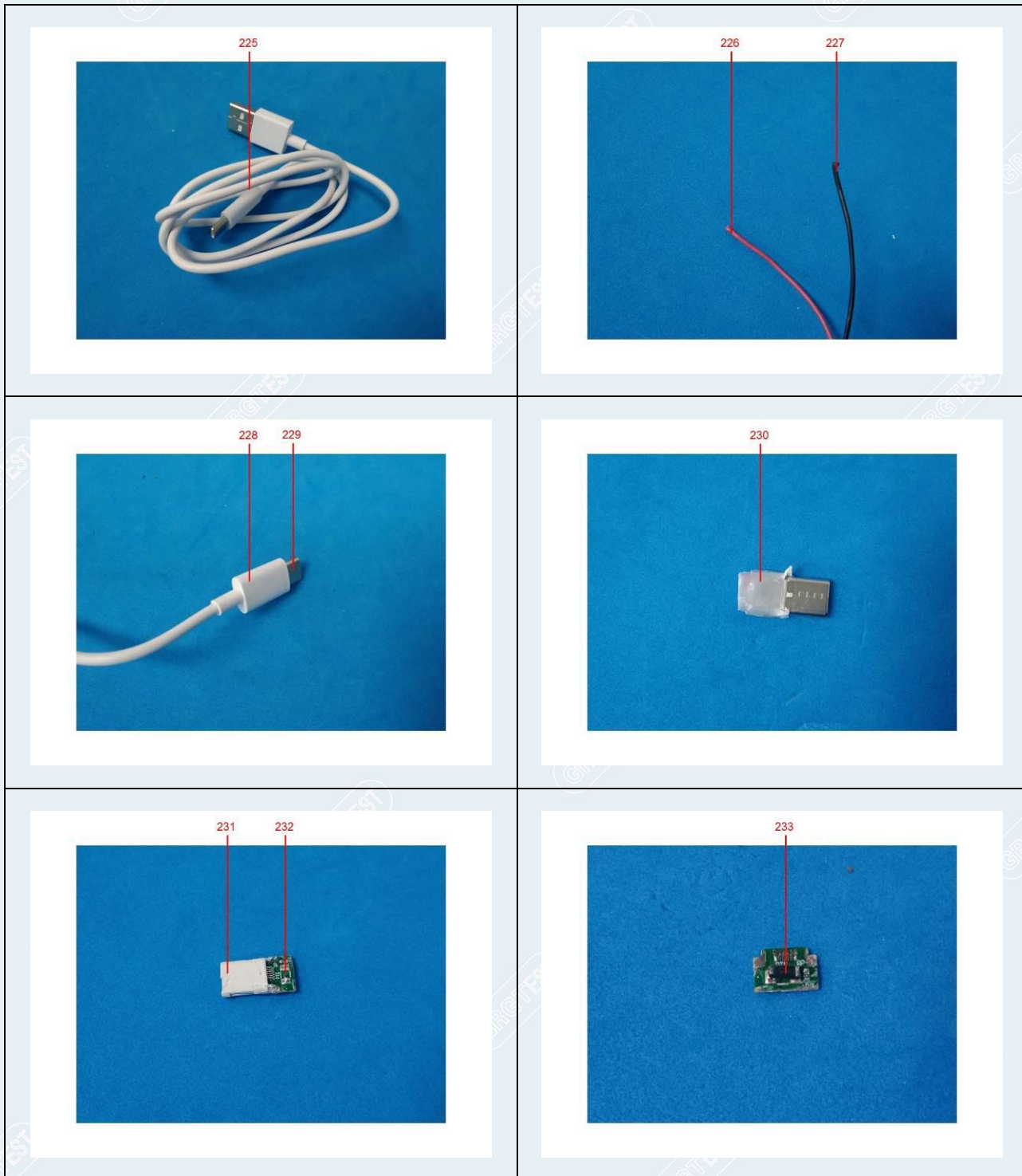
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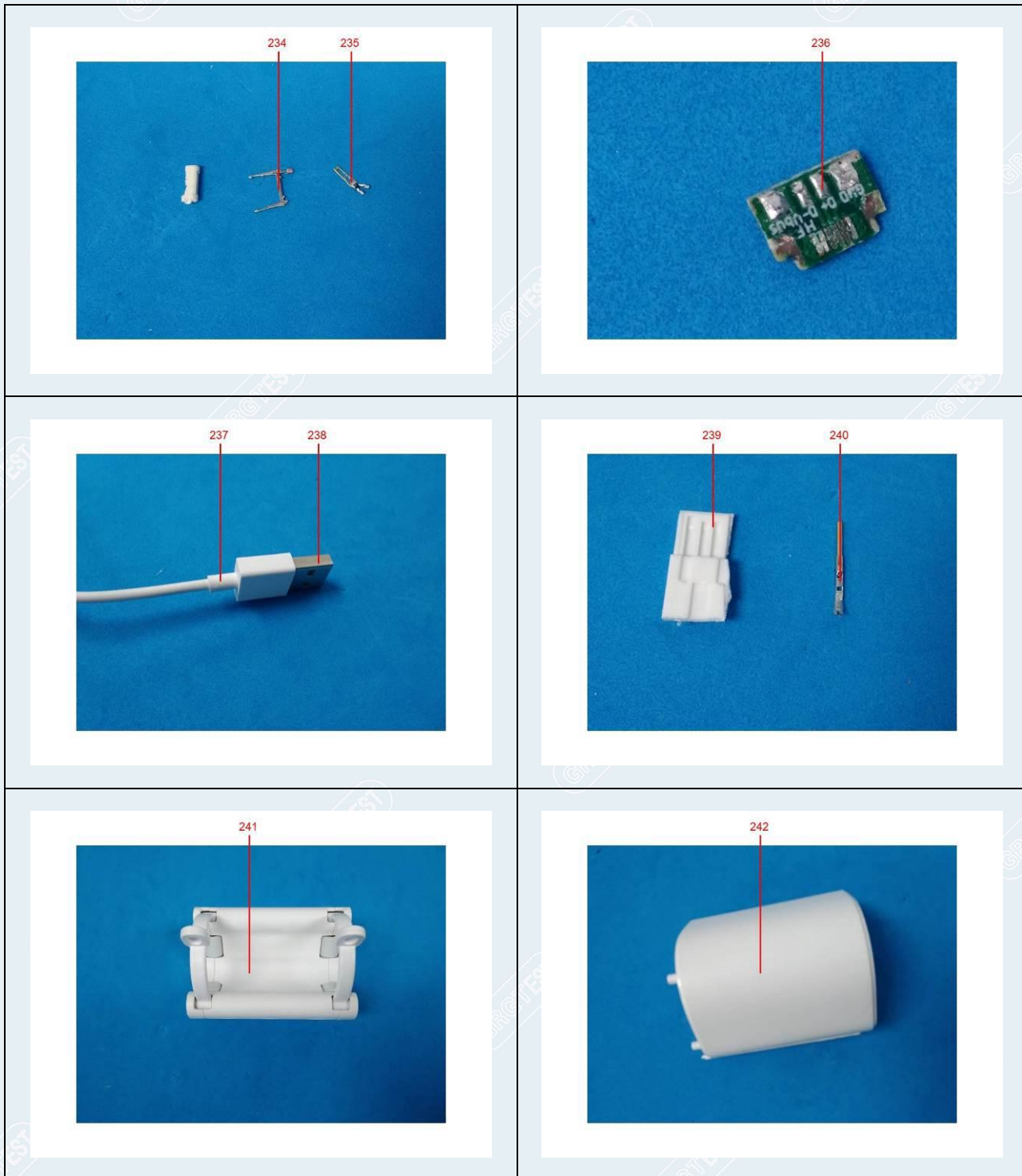
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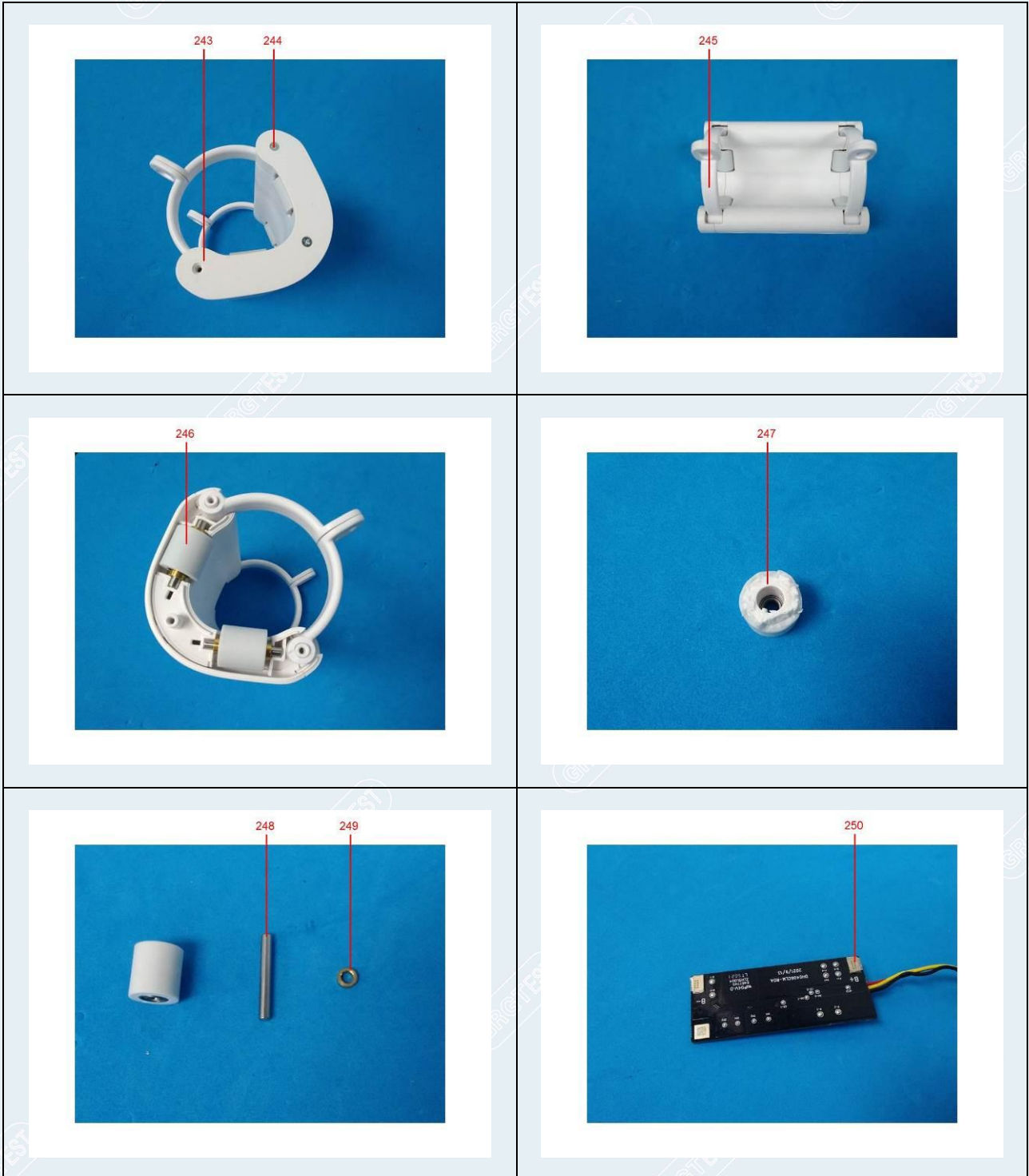
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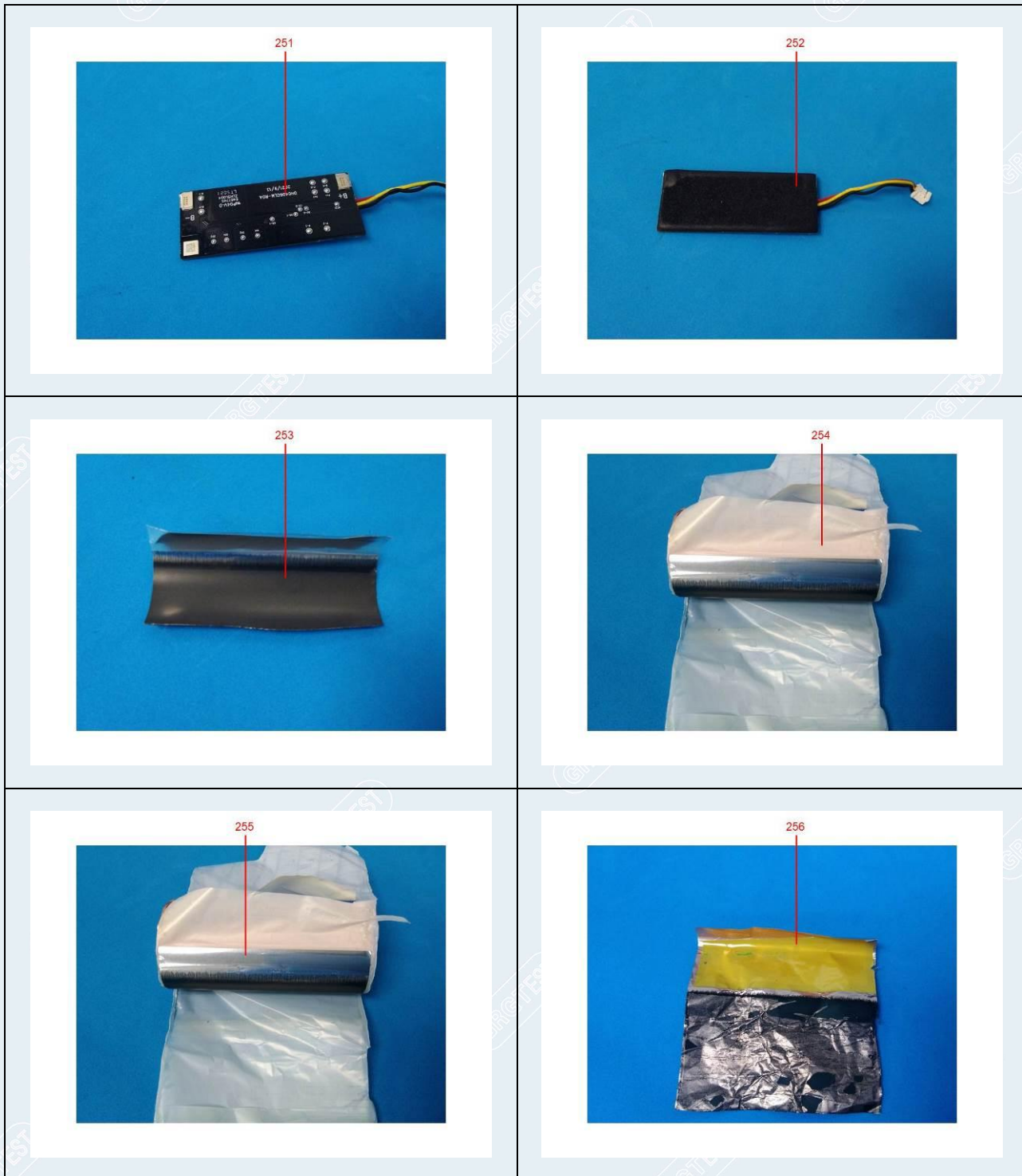
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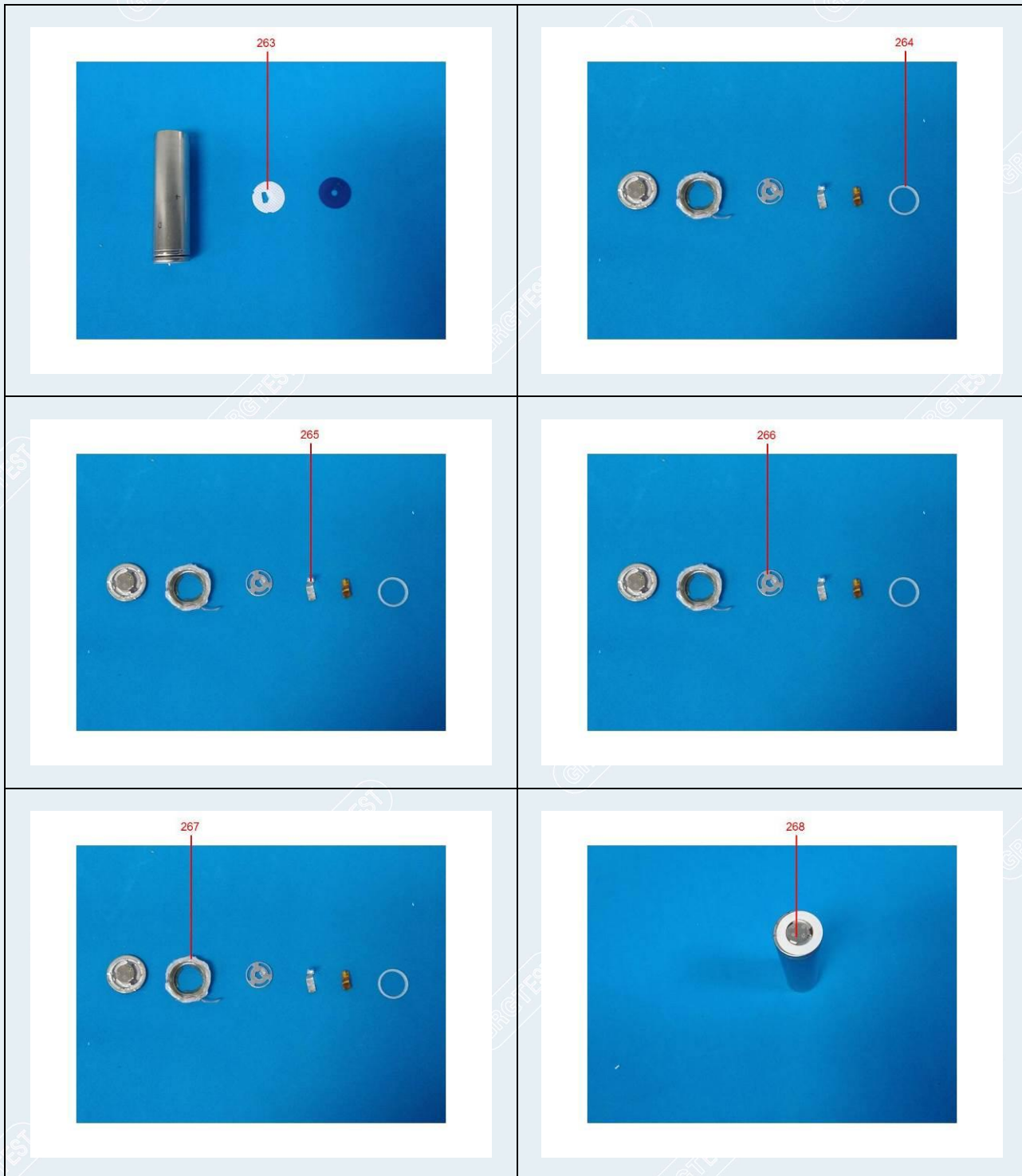
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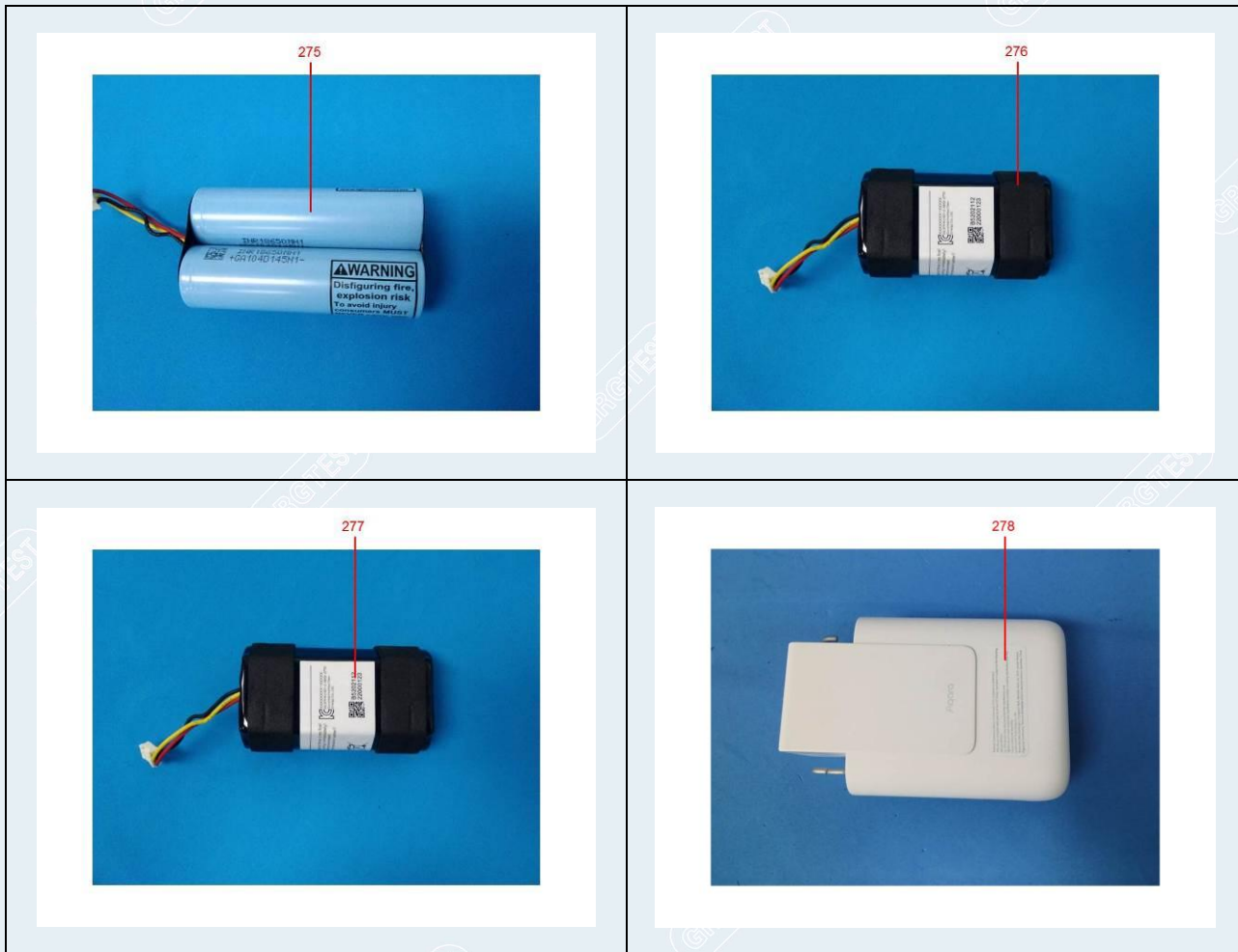
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