

TEST REPORT

Report No.: KA190624497A

Date:2019.06.27

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Applicant : SAGE HUMAN ELECTRONICS INTERNATIONAL CO., LIMITED

Address : 4F, A BUILDING, RONGLI INDUSTRIAL PARK, GUIHUA COMMUNITY,
GUANLAN TOWN SHENZHEN GUANGDONG 518110 CHINA

Report on the submitted samples said to be:

Sample Name : Bluetooth Speaker

Trade Mark : N/A

Client's information : N/A

Style No. : SH01, F41, S41, S39, S36S, F52, F62, F62D, F63, F72, F71, S40S, S40, S38S, S38, K1202, S12B, S22, S11, S11A, S11C, S11D, S11E, S11F, S33, S33B, S33C, S33D, S33R, S33CR, S22B, S22D, S22R, S22E, S28, S28B, S28C, S28R, S28CR, DAB-F71, S21A, S21B, S21R, S11CR, S12, S29, S30, S32, S36, S37, SH525, SH6, F51R, F52R, S41R, F41R

Testing Period : June 25, 2019 ~ June 27, 2019

Results : Please refer to next page(s).

TEST REQUEST	CONCLUSION
According to the customer's request, based on the performed tests on submitted sample, the result of Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, Dibutyl Phthalate(DBP), Benzylbutyl Phthalate(BBP), Bis(2-ethylhexyl) Phthalate(DEHP), Diisobutyl phthalate(DIBP) content comply with the limit as set of RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	PASS

Signed for and on behalf of LCS



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Results:
A.EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^Ⅵ	Br ^Ⅶ		
						PBBs	PBDEs	
1	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
2	Brown paper	BL	BL	BL	BL	BL	BL	2019-05-21
3	Grey foam	BL	BL	BL	BL	X	X	2019-05-21
4	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
5	Black foam	BL	BL	BL	BL	BL	BL	2019-05-21
6	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
7	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
8	Gray plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
9	Blue plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
10	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
11	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
12	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
13	Gray plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
14	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
15	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
16	Silver metal sheet	BL	BL	BL	X	/	/	2019-05-21
17	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
18	Transparent plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
19	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
20	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
21	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
22	PCB board	BL	BL	BL	BL	X	X	2019-05-21
23	Black paper	BL	BL	BL	BL	BL	BL	2019-05-21
24	Blue plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
25	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
26	Black paper	BL	BL	BL	BL	BL	BL	2019-05-21
27	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
28	Gold wire	BL	BL	BL	BL	/	/	2019-05-21
29	Yellow plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
30	Red metal wire	BL	BL	BL	BL	/	/	2019-05-21

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ^{VI}		
						PBBs	PBDEs	
31	Ferrous metal sheet	BL	BL	BL	BL	/	/	2019-05-21
32	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
33	black magnet	BL	BL	BL	BL	/	/	2019-05-21
34	Yellow plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
35	Blue plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
36	White plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
37	Silver wire	BL	BL	BL	BL	/	/	2019-05-21
38	Black paper	BL	BL	BL	BL	BL	BL	2019-05-21
39	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
40	Black paper	BL	BL	BL	BL	BL	BL	2019-05-21
41	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
42	Gold wire	BL	BL	BL	BL	/	/	2019-05-21
43	Brown plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
44	Gold wire	BL	BL	BL	BL	/	/	2019-05-21
45	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
46	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
47	black magnet	BL	BL	BL	BL	/	/	2019-05-21
48	Black plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
49	Brown plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
50	Grey plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
51	Purple plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
52	Green plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
53	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
54	Brown plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
55	Gold wire	BL	BL	BL	BL	/	/	2019-05-21
56	White Gel	BL	BL	BL	BL	BL	BL	2019-05-21
57	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
58	Grey plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
59	Silver wire	BL	BL	BL	BL	/	/	2019-05-21
60	White plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^Ⅵ	Br ^Ⅶ		
						PBBs	PBDEs	
61	Silver wire	BL	BL	BL	BL	/	/	2019-05-21
62	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
63	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
64	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
65	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
66	Gold metal shrapnel	OL	BL	BL	BL	/	/	2019-05-21
67	PCB board	BL	BL	BL	BL	X	X	2019-05-21
68	Red plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
69	Black plastic sheet	BL	BL	BL	BL	X	X	2019-05-21
70	Silver metal sheet	OL	BL	BL	BL	/	/	2019-05-21
71	Golden metal sheet	BL	OL	BL	BL	/	/	2019-05-21
72	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
73	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
74	Silver metal needle	BL	BL	BL	BL	/	/	2019-05-21
75	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
76	Silver metal sheet	OL	BL	BL	BL	/	/	2019-05-21
77	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
78	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
79	Golden metal needle	BL	BL	BL	BL	/	/	2019-05-21
80	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
81	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
82	Silver metal sheet	X	BL	BL	BL	/	/	2019-05-21
83	Silver metal spring	BL	BL	BL	BL	/	/	2019-05-21
84	Brown plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
85	Black Ceramic Slices	BL	BL	BL	BL	BL	BL	2019-05-21
86	Gold wire	BL	BL	BL	BL	/	/	2019-05-21
87	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
88	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
89	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
90	Grey metal sheet	BL	BL	BL	BL	/	/	2019-05-21

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ^{VI}		
						PBBs	PBDEs	
91	Brown paper	BL	BL	BL	BL	BL	BL	2019-05-21
92	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
93	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
94	Silver metal needle	OL	BL	BL	X	/	/	2019-05-21
95	Green plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
96	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
97	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
98	Grey metal sheet	BL	BL	BL	BL	/	/	2019-05-21
99	Brown paper	BL	BL	BL	BL	BL	BL	2019-05-21
100	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
101	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
102	Silver metal needle	X	BL	BL	BL	/	/	2019-05-21
103	Black IC	BL	BL	BL	BL	BL	BL	2019-05-21
104	Tin solder	BL	X	BL	BL	/	/	2019-05-21
105	Black IC	BL	BL	BL	BL	BL	BL	2019-05-21
106	Silver crystal oscillator	BL	BL	BL	BL	/	/	2019-05-21
107	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
108	Red plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
109	Silver metal needle	OL	BL	BL	BL	/	/	2019-05-21
110	Brown patch capacitor	BL	BL	BL	BL	BL	BL	2019-05-21
111	Patch diode	BL	BL	BL	BL	X	X	2019-05-21
112	Red LED	BL	BL	BL	BL	X	X	2019-05-21
113	chip resistor	BL	BL	BL	BL	BL	BL	2019-05-21
114	Patch triode	BL	BL	BL	BL	X	X	2019-05-21
115	PCB board	BL	BL	BL	BL	X	X	2019-05-21
116	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
117	Green plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
118	Blue paper	BL	BL	BL	BL	BL	BL	2019-05-21
119	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
120	Black IC	BL	BL	BL	BL	BL	BL	2019-05-21

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^Ⅵ	Br ^Ⅱ		
						PBBs	PBDEs	
121	Black IC	BL	BL	BL	BL	X	X	2019-05-21
122	Tin solder	BL	BL	BL	BL	/	/	2019-05-21
123	PCB board	BL	BL	BL	BL	BL	BL	2019-05-21
124	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
125	Silver metal sheet	OL	BL	BL	BL	/	/	2019-05-21
126	Red plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
127	Black plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
128	Silver wire	BL	BL	BL	BL	/	/	2019-05-21
130	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
131	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
132	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
133	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
134	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
135	Blue plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
136	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
137	Blue plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
138	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
139	Golden metal sheet	BL	BL	BL	BL	/	/	2019-05-21
140	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
141	Black toner	BL	BL	BL	BL	BL	BL	2019-05-21
142	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
143	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
144	Silver metal screw	BL	BL	BL	BL	/	/	2019-05-21
145	Silver metal screw	BL	BL	BL	BL	/	/	2019-05-21
146	Ferrous metal screw	BL	BL	BL	BL	/	/	2019-05-21
147	Ferrous metal screw	BL	BL	BL	BL	/	/	2019-05-21
148	Ferrous metal screw	BL	BL	BL	BL	/	/	2019-05-21
149	Ferrous metal screw	BL	BL	BL	BL	/	/	2019-05-21
150	Ferrous metal screw	BL	BL	BL	X	/	/	2019-05-21

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^Ⅵ	Br ^Ⅱ		
						PBBs	PBDEs	
151	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
152	Black ribbon	BL	BL	BL	BL	BL	BL	2019-05-21
153	Ferrous metal sheet	BL	BL	BL	BL	/	/	2019-05-21
154	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
155	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
156	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
157	Silver metal sheet	OL	BL	BL	BL	/	/	2019-05-21
158	Black cotton yarn	BL	BL	BL	BL	BL	BL	2019-05-21
159	Grey tape	BL	BL	BL	BL	BL	BL	2019-05-21
160	Silver metal needle	BL	OL	BL	BL	/	/	2019-05-21
161	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
162	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
163	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
164	Black plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
165	Red plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
166	White plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
167	Black plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
168	Gold wire	BL	BL	BL	BL	/	/	2019-05-21
169	Silver metal sheet	BL	BL	BL	BL	/	/	2019-05-21
170	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
171	White plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
172	Silver metal needle	X	BL	BL	BL	/	/	2019-05-21
173	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
174	Silver metal sheet	BL	BL	BL	X	/	/	2019-05-21
175	Black plastic sheet	BL	BL	BL	BL	BL	BL	2019-05-21
176	Silver metal needle	BL	BL	BL	X	/	/	2019-05-21
177	Silver metal needle	BL	BL	BL	BL	/	/	2019-05-21
178	Black plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
179	Red plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
180	Black plastic thread	BL	BL	BL	BL	BL	BL	2019-05-21
181	Gold wire	BL	BL	BL	BL	/	/	2019-05-21

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Note:

- (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2015/863/EC amending RoHS directive 2011/65/EU:
- (4) ▼=For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr(VI), and the results showed the total Cr content

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RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000
Dibutyl Phthalate(DBP)	1000
Benzylbutyl Phthalate(BBP)	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	1000
Diisobutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

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B. EU RoHS Directive 2011/65/EU and its amendment Directives 2015/863/EU on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content.

Test method:

Lead(Pb) & Cadmium(Cd) Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury(Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium(Cr⁶⁺) Content:

With reference to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

BBP DBP DEHP & DIBP Content:

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Lead (Pb) and Cadmium (Cd)

Item	Unit	MDL	Results			Limit
			(71)	(104)	(160)	
Lead Content (Pb)	mg/kg	2	22985 ^{#3}	399	19493 ^{#3}	1000 mg/kg

Item	Unit	MDL	Results					Limit
			(66)	(70)	(76)	(82)	(94)	
Cadmium Content (Cd)	mg/kg	2	N.D.	5	N.D.	N.D.	N.D.	100 mg/kg

Item	Unit	MDL	Results					Limit
			(102)	(104)	(109)	(125)	(172)	
Cadmium Content (Cd)	mg/kg	2	N.D.	N.D.	N.D.	N.D.	N.D.	100 mg/kg

2) The test results of Hexavalent Chromium (Cr⁶⁺)(metal)

Item	Unit	MDL	Results					Limit
			(16)	(94)	(150)	(174)	(176)	
Hexavalent Chromium (Cr ⁶⁺)	ug/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg



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Note:

- MDL = Method Detection Limit
- /= Not apply
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is $0.10 \mu\text{g}/\text{cm}^2$
- $\text{mg}/\text{kg} = \text{ppm} = \text{parts per million}$
- N.D.=Not Detected(<MDL or LOQ)
- *The sample is negative for Cr(VI)-The Cr(VI) concentration is below $0.10 \mu\text{g}/\text{cm}^2$
The coating is considered a non-Cr(VI) based coating.
- #1 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- #2 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezoelectronic devices).
- #3 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.
- #4 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- #5 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Aluminum containing up to 0.4% (4000ppm) by weight.
- #6 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Cadmium and its compounds in electrical contact is exempted.
- Flow chart appendix is included.
- Photo appendix is included.

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3) The test results of DBP、BBP、DEHP & DIBP

Item	Unit	MDL	Results					Limit
			2	4	14	15	19	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results					Limit
			23	24	25	26	29	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results					Limit
			34	35	36	38	39	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

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Item	Unit	MDL	Results					Limit
			40	43	48	49	50	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results					Limit
			51	52	53	56	57	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results					Limit
			58	60	62	87	91	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

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Item	Unit	MDL	Results					Limit
			92	95	99	100	117	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results					Limit
			118	126	127	135	136	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results					Limit
			137	138	141	152	158	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

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Item	Unit	MDL	Results					Limit
			159	161	163	164	165	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results					Limit
			166	167	170	171	173	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results				Limit
			178	179	180	1+3+5	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

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Item	Unit	MDL	Results			Limit
			6+7+8	9+10+11	12+13+18	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results			Limit
			20+22+27	41+54+63	65+67+68	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results			Limit
			73+75+78	81+84+85	103+105+107	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg

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Item	Unit	MDL	Results		Limit
			108+110+113	115+120+123	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	1000 mg/kg

Item	Unit	MDL	Results			Limit
			124+131+175	69+11+112	114+121	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	1000 mg/kg

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4) The test results of PBBs & PBDEs

Item	Unit	MDL	Results				Limit
			(3)	(22)	(67)	(69)	
Polybrominated Biphenyls (PBBs)							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

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Item	Unit	MDL	Results					Limit
			(111)	(112)	(114)	(115)	(121)	
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Remark:

- mg/kg = ppm
- N.D. = Not detected
- MDL=Method detected limited
- Flow chart appendix is included
- Photo appendix is included.

TEST REPORT

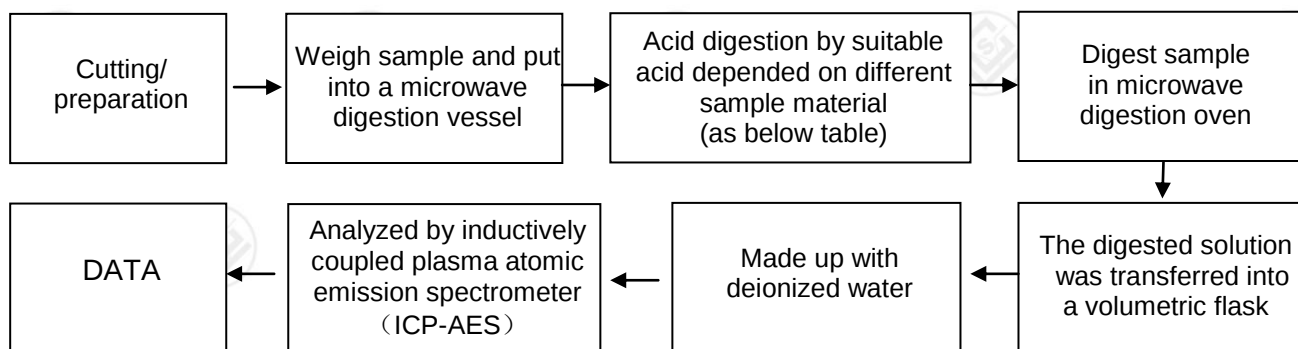
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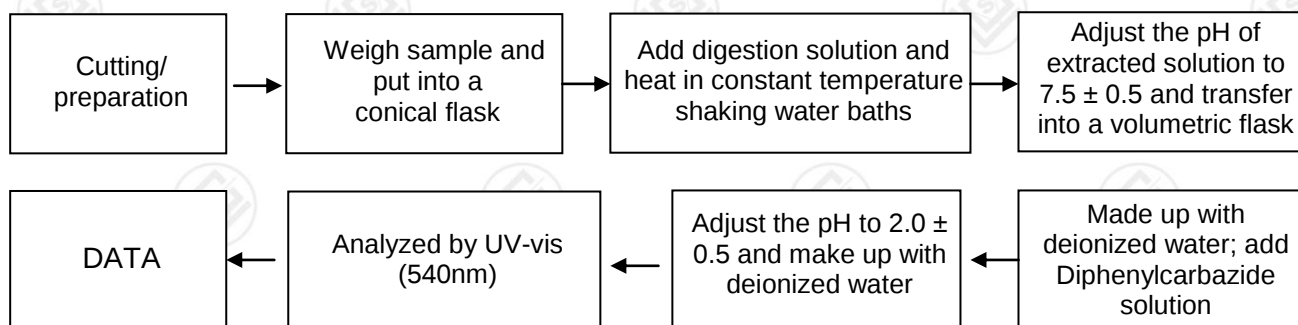
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Appendix

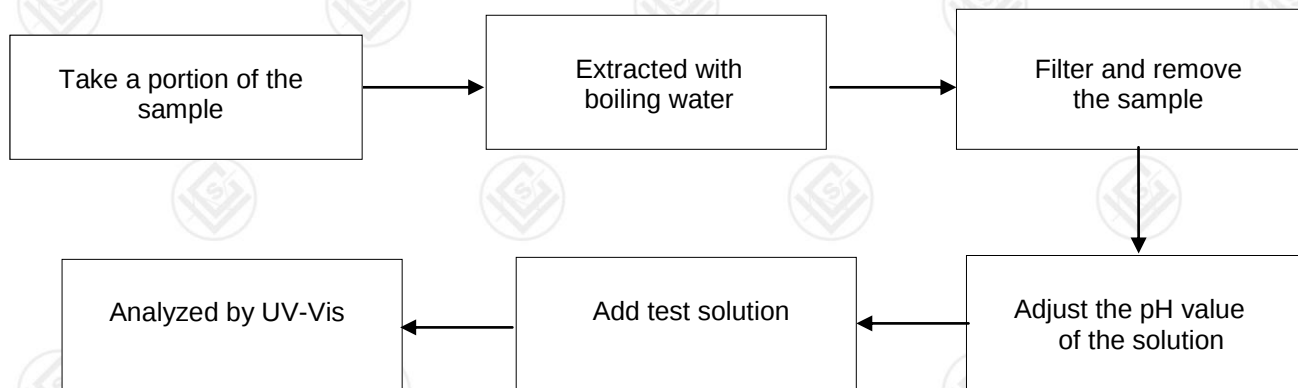
1. Test Flow chart for Cd/Pb /Hg content



2. Test Flowchart for Cr⁶⁺ content (For non-metal material)



Test Flowchart for Cr⁶⁺ content (For metal material)



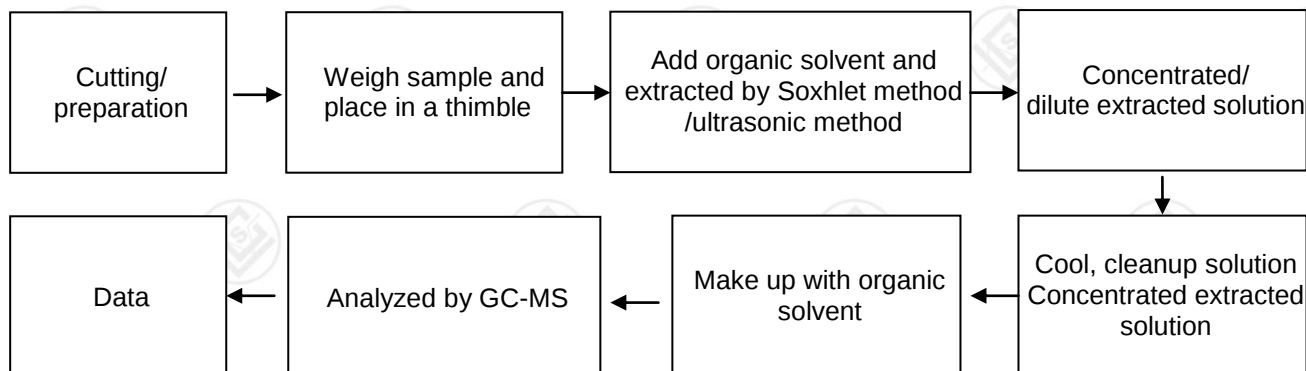
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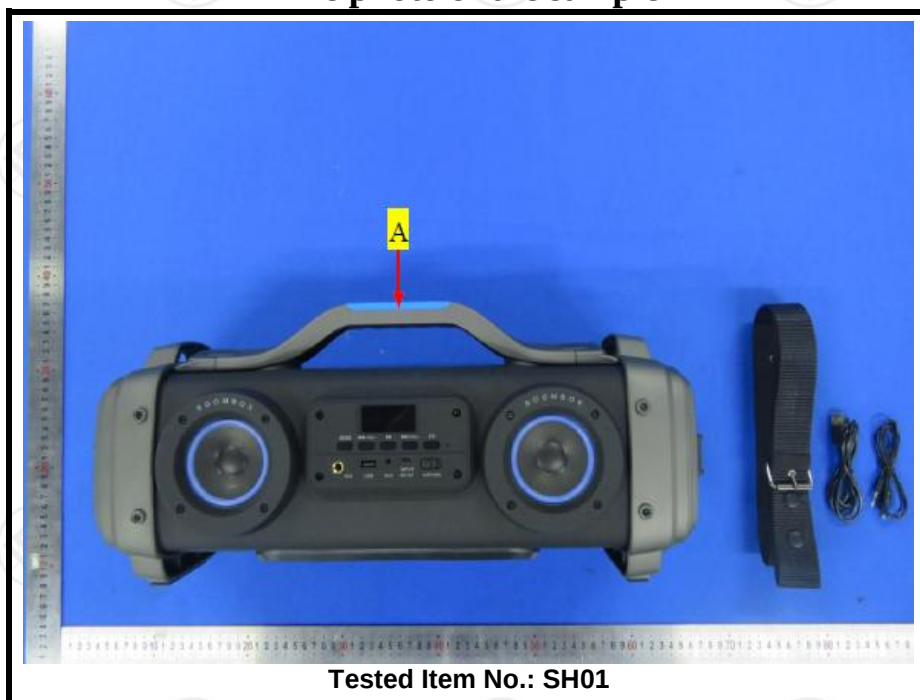
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3. Test Flow chart for PBBs & PBDEs & DBP & BBP & DEHP & DIBP content



The photo of the sample



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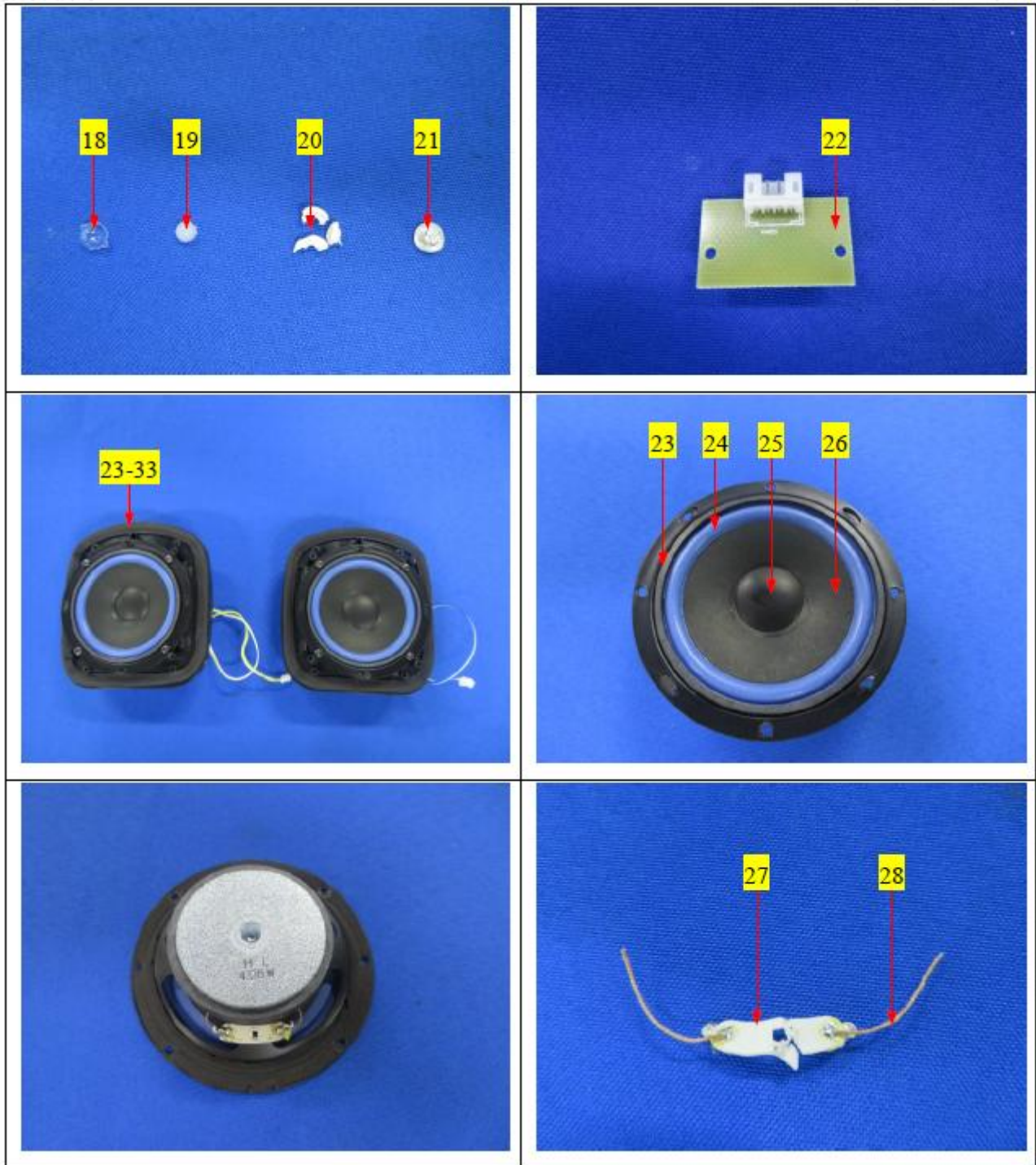


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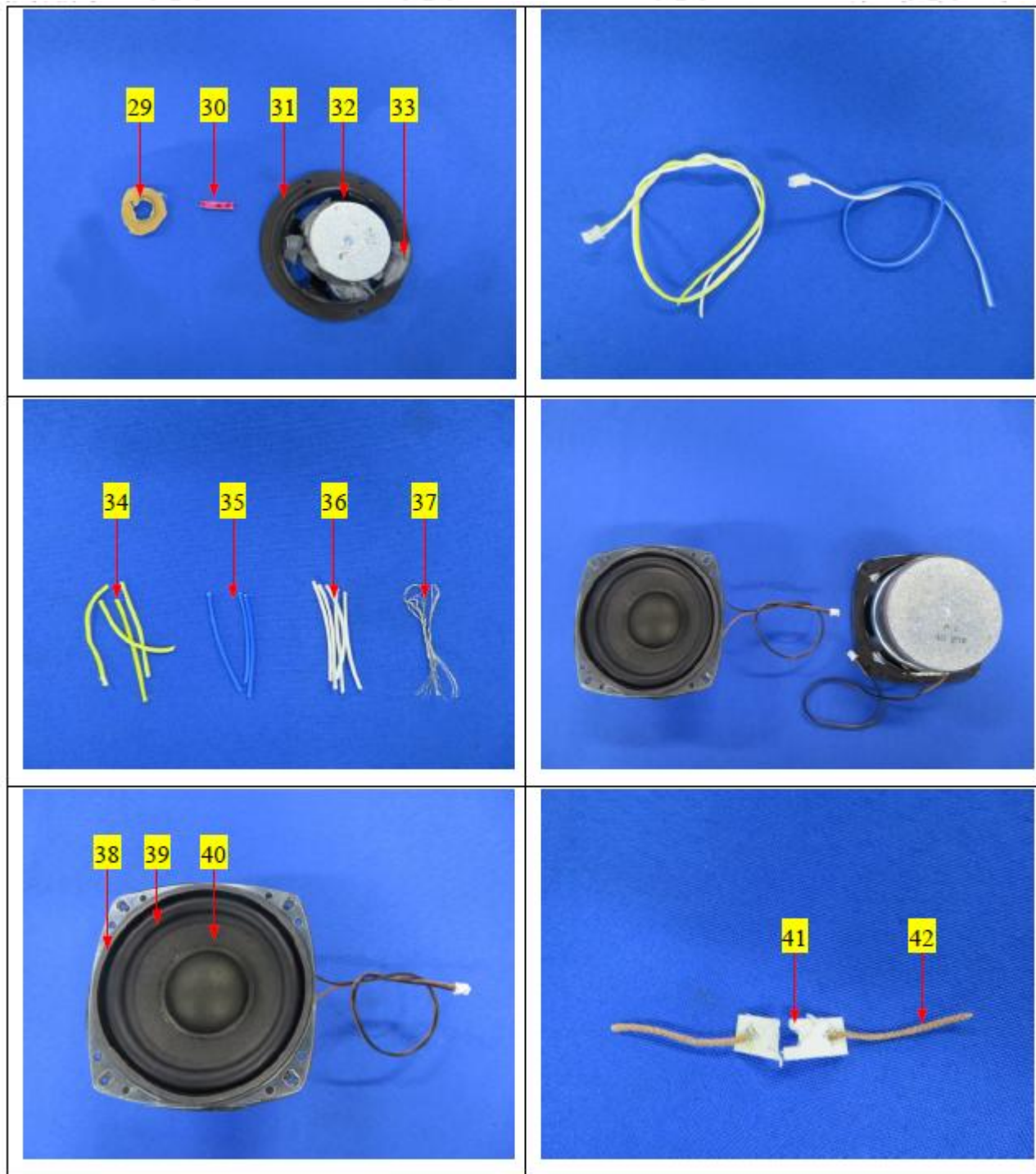


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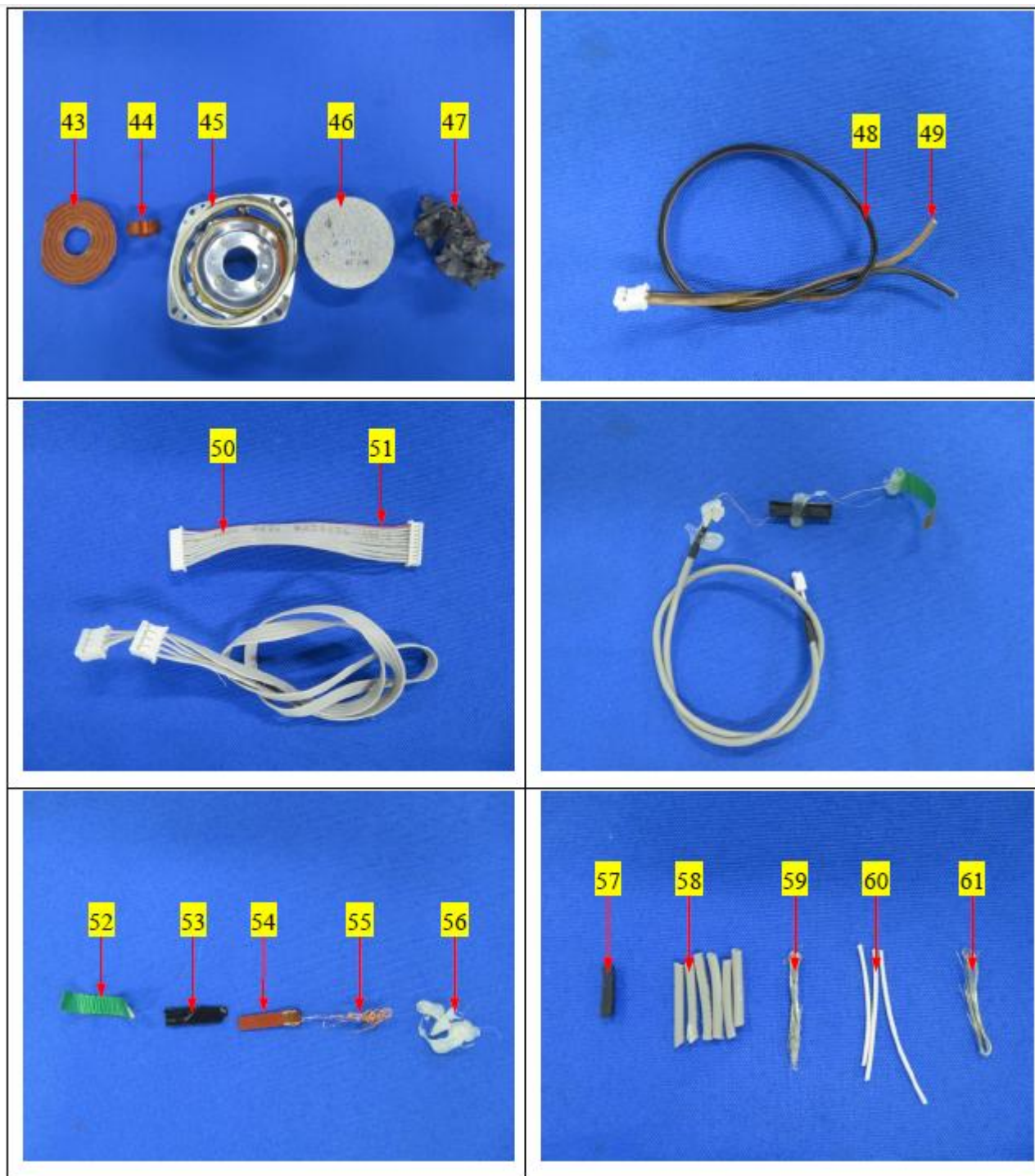


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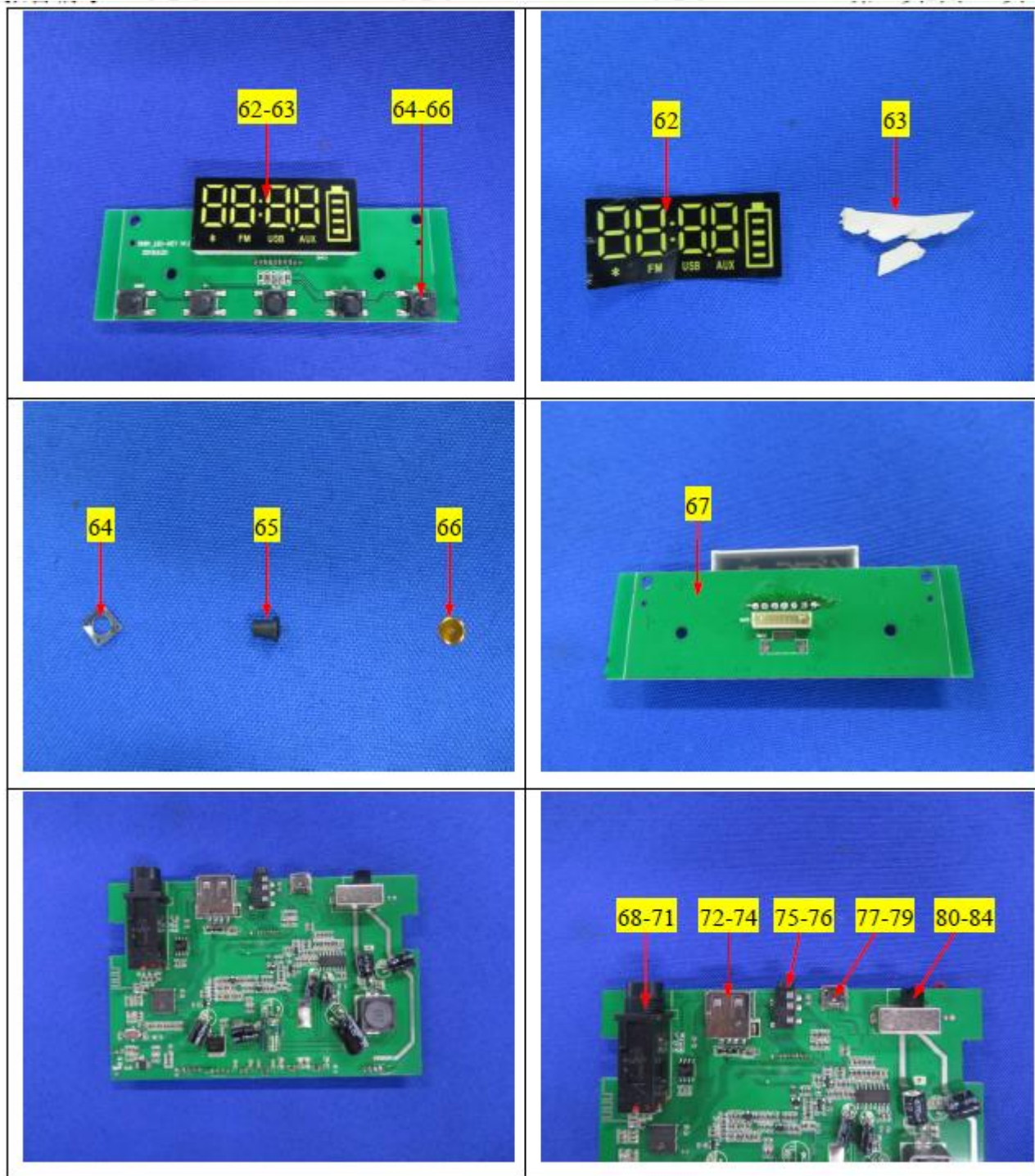


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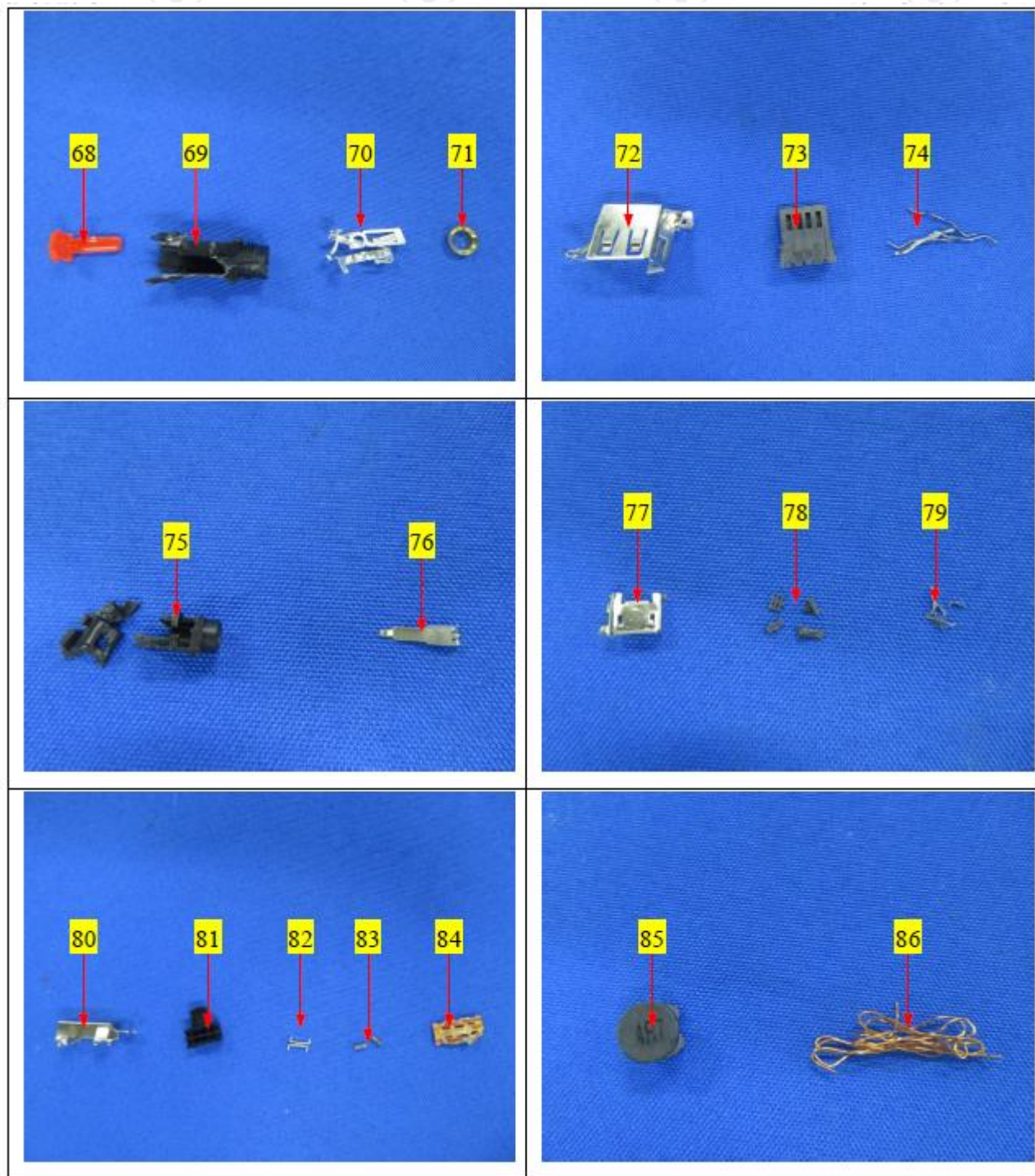


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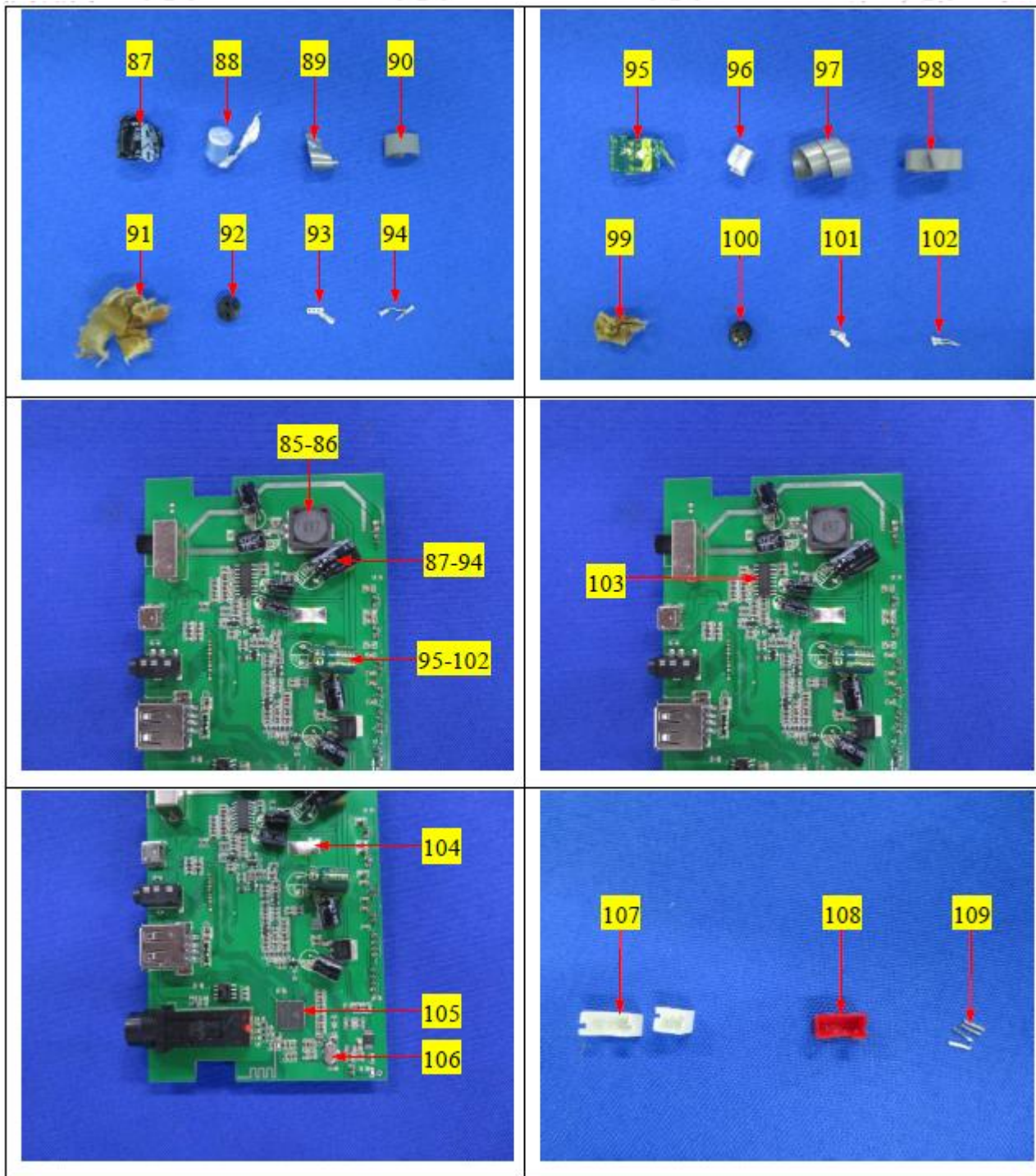


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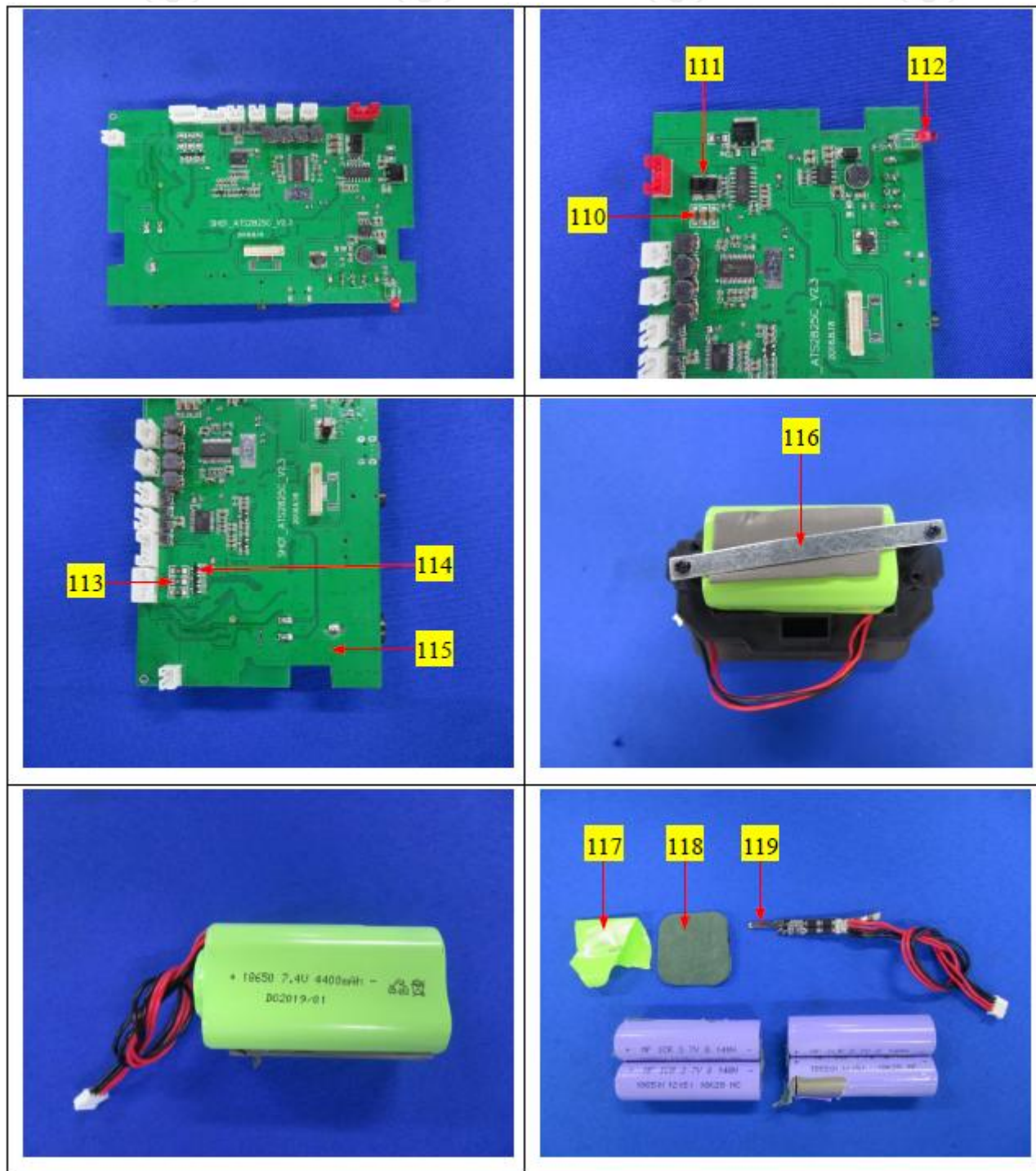


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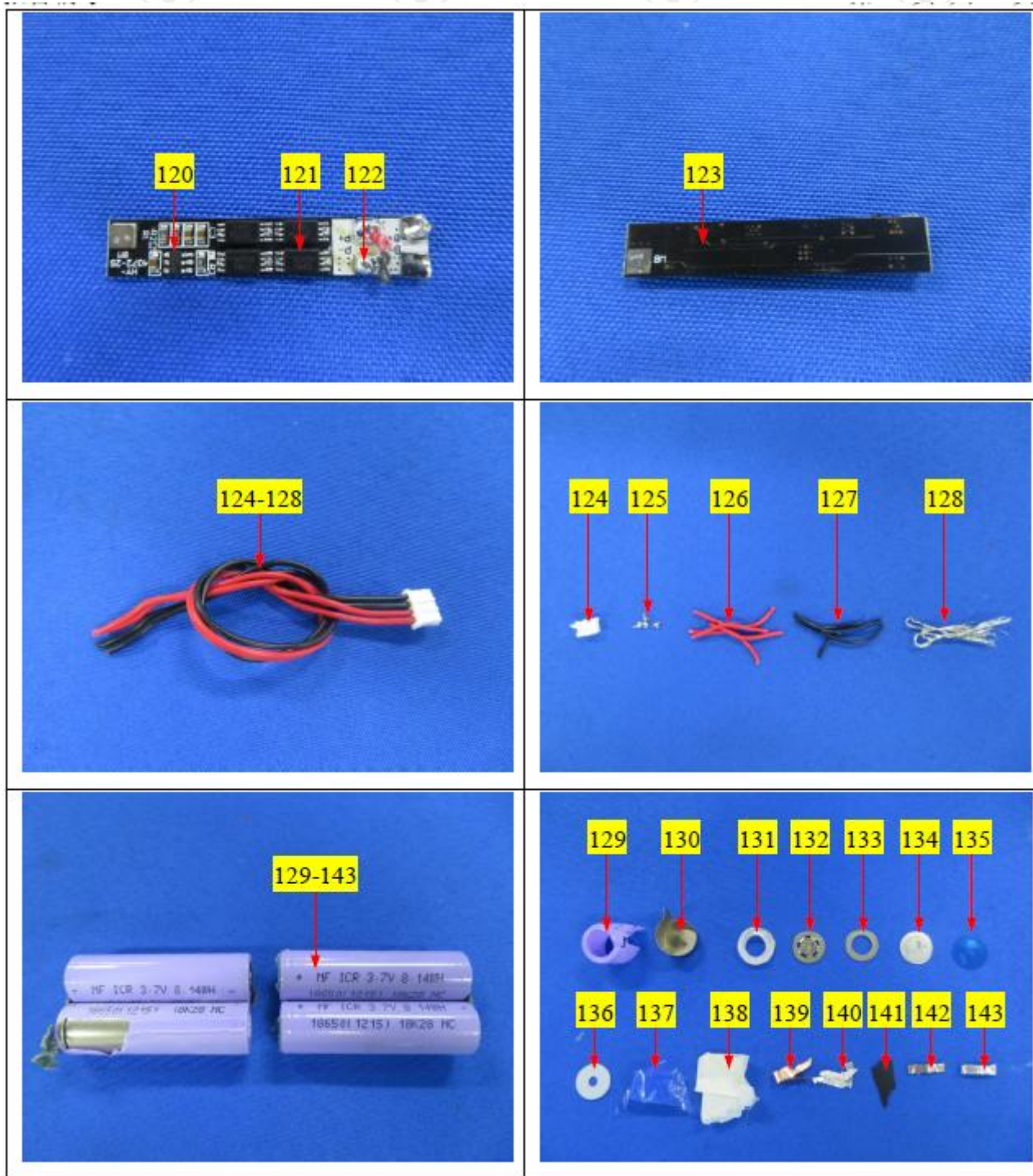


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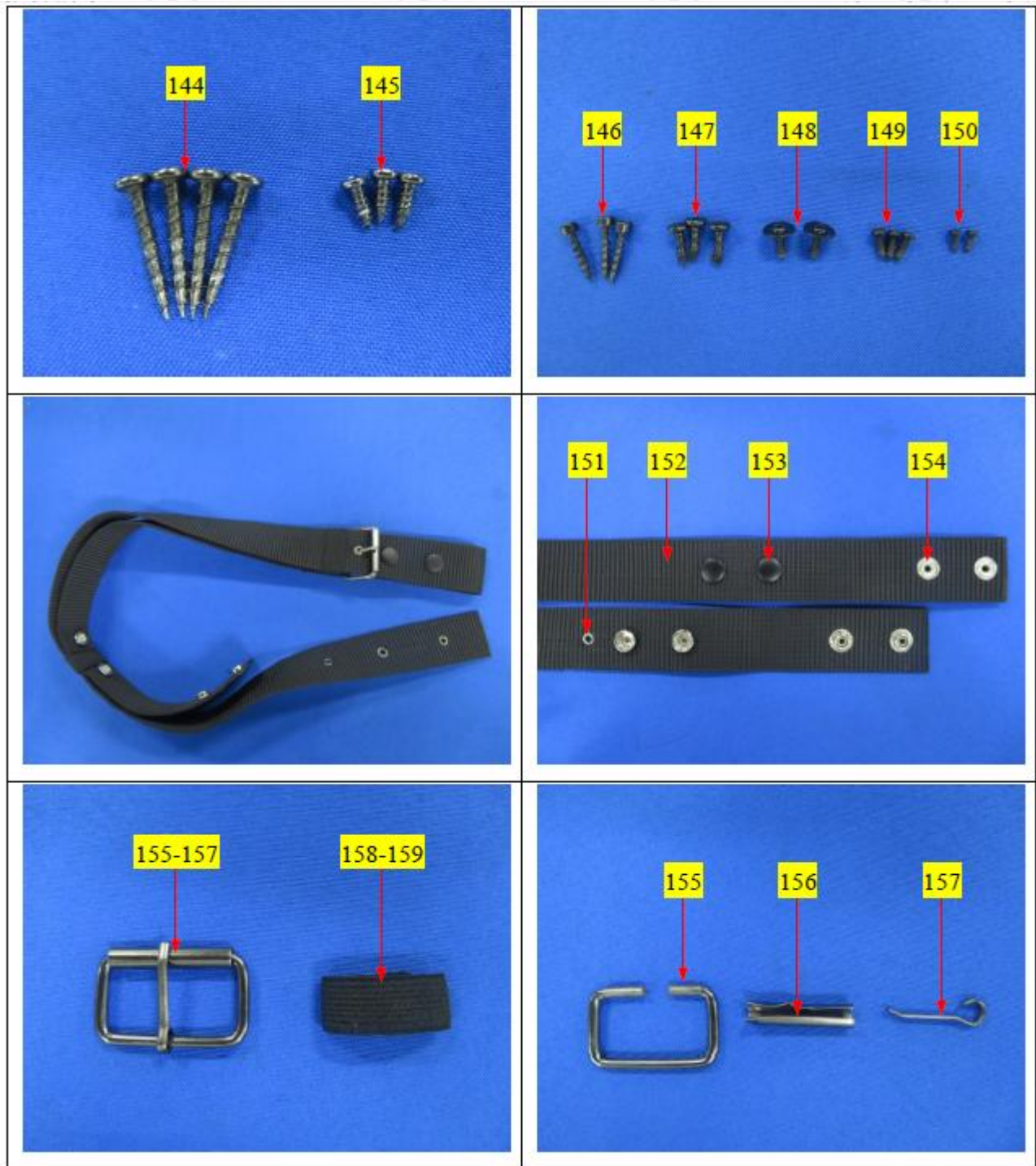


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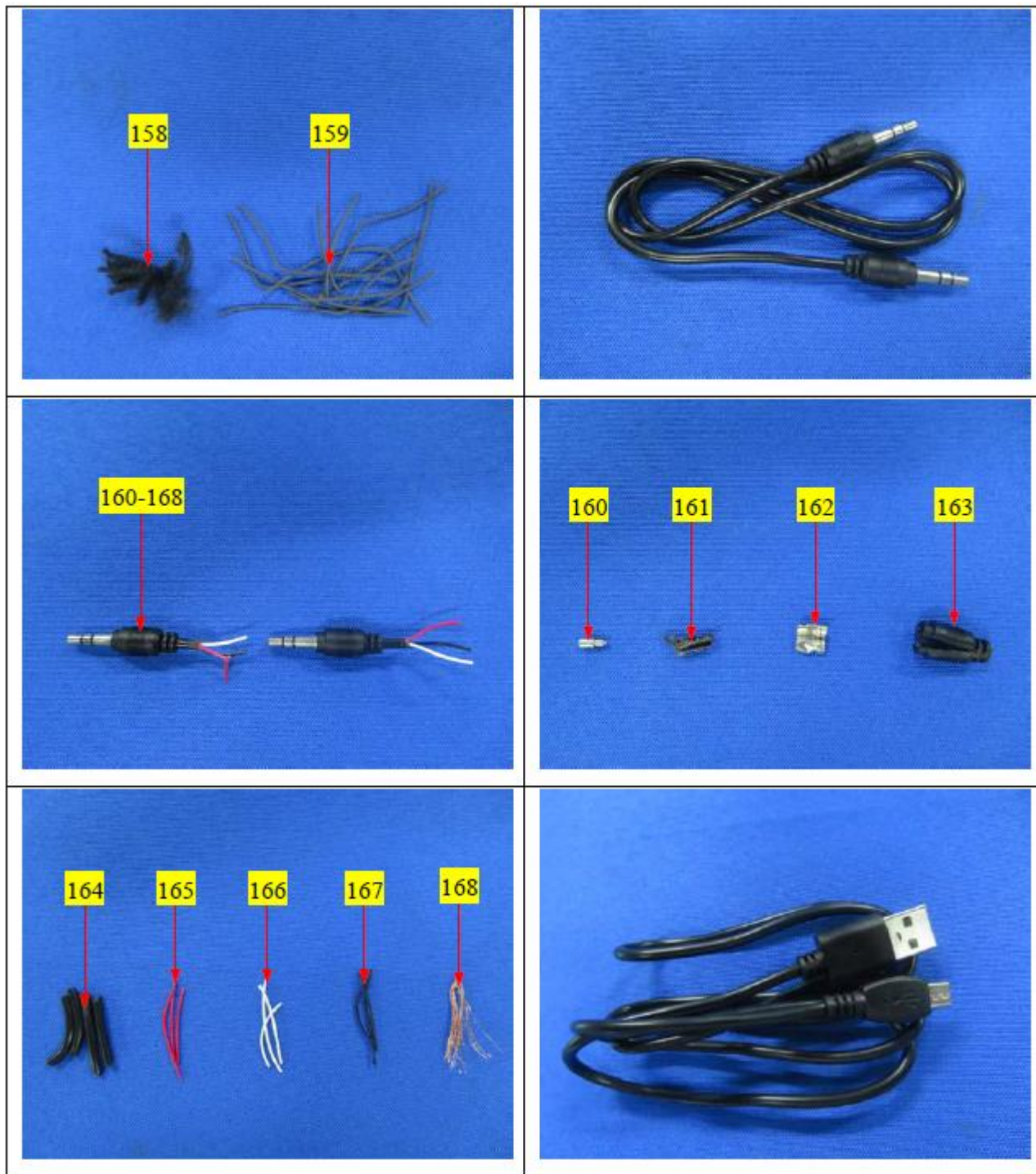


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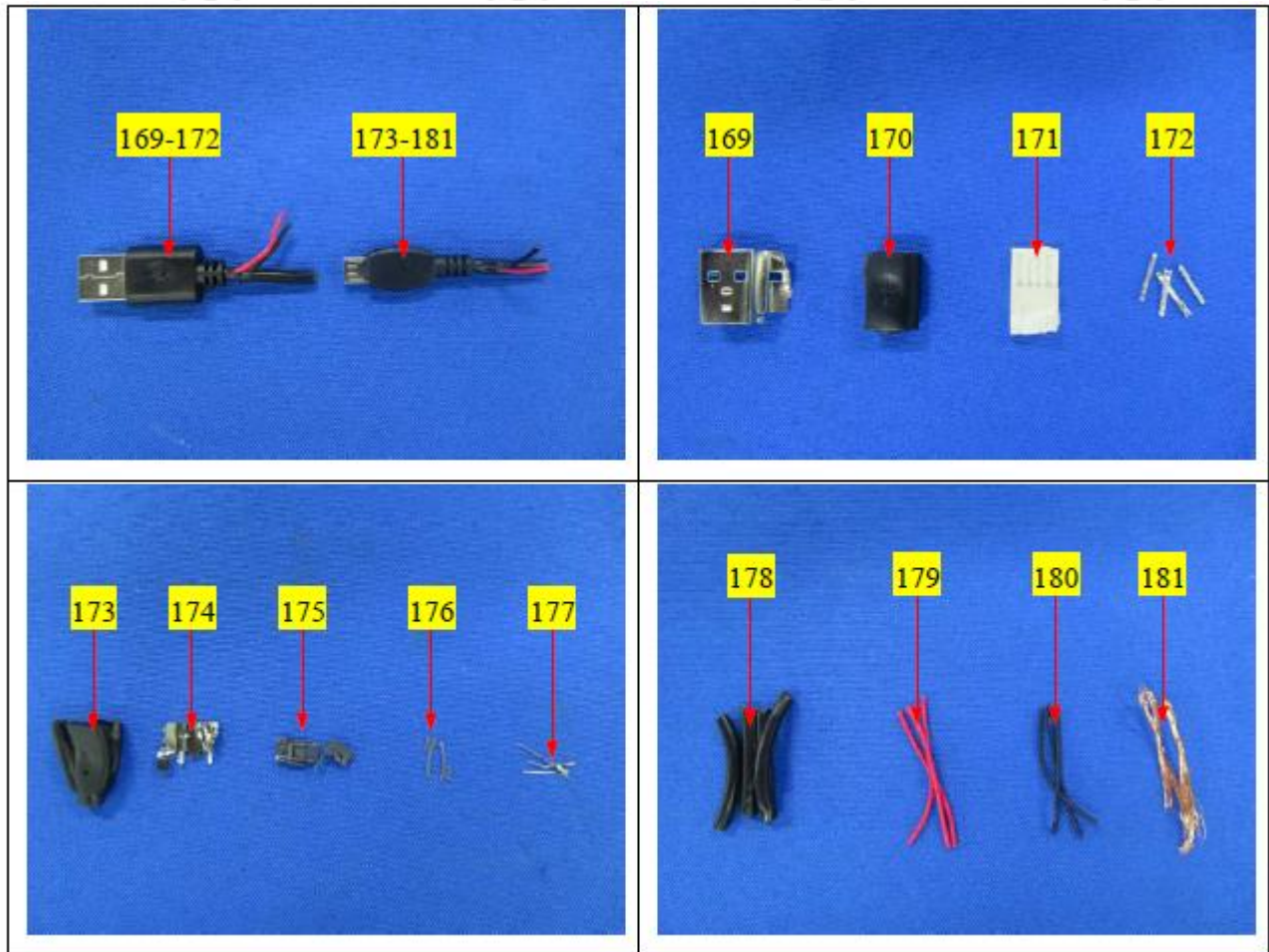


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***** End of Report *****

Statement:

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2. The result(s) shown in this report refer only to the sample(s) tested.
3. Without written approval of LCS, this report can't be reproduced except in full.
4. The sample(s) and sample information was/were provided by the client who should be responsible for the authenticity which LCS hasn't verified.
5. In case of any discrepancy between the English version and Chinese version of the testing reports(if generated), the Chinese version shall prevail.