



TEST REPORT

REPORT No.: **DTIBW20200502-1**

Date: 2020-06-16

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Applicant Company Name: Shenzhen Huafurui Technology Co., Ltd.

Applicant Company Address: Unit 1401 &1402, 14/F, Jinqi zhigu mansion (No. 4 building of Chongwen Garden), Crossing of the Liuxian street and Tangling road, Taoyuan street, Nanshan district, Shenzhen,P.R. China

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

Sample Name : Smart Phone
 Model No. : K30
 Trademark : HAFURY
 Sample Receiving Date : April 23, 2020
 Testing Period : From April 23, 2020 to April 28, 2020
 Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

CONCLUSION

A EU RoHS Directive 2011/65/EU and its amendment directives 2015/863/EU ([RoHS 2.0](#))

Pass

Signed for and on behalf of
DTI

Approved by: Tommy Jiang
lab manager



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Results:

1、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				
		Pb	Cd	Hg	Cr	Br
1	Green Coating	BL	BL	BL	BL	BL
2	Plastic Frame Substrate	BL	BL	BL	BL	BL
3	Camera Plastic Cover	BL	BL	BL	BL	BL
4	White Translucent Plastic Shell (Flash Lamp)	BL	BL	BL	BL	BL
5	Copper Foil	BL	BL	BL	BL	BL
6	Black Plastic Frame	BL	BL	BL	BL	BL
7	Gold Metal Nut	X	BL	BL	BL	BL
8	Silver Metal Pedestal	BL	BL	BL	BL	BL
9	Gray Coating	BL	BL	BL	BL	BL
10	Green Coating	BL	BL	BL	BL	BL
11	Plastic Cover Substrate	BL	BL	BL	BL	BL
12	Black Plastic Case	BL	BL	BL	BL	BL
13	Black Plastic Cover	BL	BL	BL	BL	BL
14	Black Plastic Frame	BL	BL	BL	BL	BL
15	PCB	BL	BL	BL	BL	X
16	Solder Point	BL	BL	BL	BL	BL
17	Patch Resistor	BL	BL	BL	BL	BL
18	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
19	Black Ceramic Body Chip	BL	BL	BL	BL	BL
20	Gold Metal Sheet	BL	BL	BL	BL	BL



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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
21	Plastic Packaging Film	BL	BL	BL	BL	BL
22	Silver Metal Case	BL	BL	BL	BL	BL
23	Yellow Plastic Sticker	BL	BL	BL	BL	BL
24	Electrode Metal Sheet	BL	BL	BL	BL	BL
25	Aluminum Laminated Films	BL	BL	BL	BL	BL
26	Polymer Membranes	BL	BL	BL	BL	BL
27	Green Plastic Sticker	BL	BL	BL	BL	BL
28	White Plastic Sticker	BL	BL	BL	BL	BL
29	Copper Foil	BL	BL	BL	BL	BL
30	Aluminum Foil	BL	BL	BL	BL	BL
31	FPC	BL	BL	BL	BL	BL
32	LED	BL	BL	BL	BL	BL
33	Touch Screen Glass	BL	BL	BL	BL	BL
34	Display Screen Glass	BL	BL	BL	BL	BL
35	Silver Plastic Patch	BL	BL	BL	BL	BL
36	Transparent Plastic Sheet	BL	BL	BL	BL	BL
37	White Plastic Sheet	BL	BL	BL	BL	BL
38	Silver Plastic Sheet	BL	BL	BL	BL	BL
39	Black Plastic Stickers	BL	BL	BL	BL	BL
40	White Plastic Frame	BL	BL	BL	BL	BL



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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
41	Silver Metal Case	BL	BL	BL	BL	BL
42	PCB	BL	BL	BL	BL	BL
43	Solder Point	BL	BL	BL	BL	BL
44	Silver Metal Case (Card Slot)	BL	BL	BL	BL	BL
45	Black Plastic (Card Slot)	BL	BL	BL	BL	BL
46	Gold Metal Needles (Card Slot)	BL	BL	BL	BL	BL
47	Black Plastic Cover	BL	BL	BL	BL	BL
48	Beige Plastic Plug-Base	BL	BL	BL	BL	BL
49	Silver Metal Terminal	BL	BL	BL	BL	BL
50	Black Plastic Plug-Base	BL	BL	BL	BL	BL
51	Gold Metal Terminal	BL	BL	BL	BL	BL
52	Silver Metal Cover	BL	BL	BL	BL	BL
53	Terminal Black Plastic	BL	BL	BL	BL	BL
54	Terminal Gold Needles	BL	BL	BL	BL	BL
55	Gold Metal Socket	BL	BL	BL	BL	BL
56	Black Ceramic Body Chip	BL	BL	BL	BL	BL
57	Patch Resistor	BL	BL	BL	BL	BL
58	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
59	SMD Components	BL	BL	BL	BL	BL
60	Patch LED	BL	BL	BL	BL	BL



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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
61	Silver Metal Terminal	BL	BL	BL	BL	BL
62	Black Plastic Case (Earphone Jack)	BL	BL	BL	BL	BL
63	Gold Metal Pin	BL	BL	BL	BL	BL
64	Black Ceramic Body Chip	BL	BL	BL	BL	BL
65	Patch Resistor	BL	BL	BL	BL	BL
66	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
67	Patch Diode	BL	BL	BL	BL	BL
68	Triode	BL	BL	BL	BL	BL
69	Crystal Oscillator	BL	BL	BL	BL	BL
70	SMD Components	BL	BL	BL	BL	BL
71	Patch LED	BL	BL	BL	BL	BL
72	Black Plastic Cover	BL	BL	BL	BL	BL
73	Beige Plastic Plug-Base	BL	BL	BL	BL	BL
74	Silver Metal Terminal	BL	BL	BL	BL	BL
75	Patch Coil Inductor	BL	BL	BL	BL	BL
76	Copper Winding	BL	BL	BL	BL	BL
77	PCB	BL	BL	BL	BL	BL
78	Solder Point	BL	BL	BL	BL	BL
79	Gold Metal Socket	BL	BL	BL	BL	BL
80	Silver Metal Terminal	BL	BL	BL	BL	BL



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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
81	Black Plastic Plug-Base	BL	BL	BL	BL	BL
82	Gold Metal Terminal	BL	BL	BL	BL	BL
83	Silver Metal Case	BL	BL	BL	BL	BL
84	Internal White Plastic	BL	BL	BL	BL	BL
85	Gold Metal Needles	BL	BL	BL	BL	BL
86	Silver Metal Components	BL	BL	BL	BL	BL
87	Black Plastic Frame	BL	BL	BL	BL	BL
88	Silver Metal Cover (Horn)	BL	BL	BL	BL	BL
89	Transparent Plastic (Horn)	BL	BL	BL	BL	BL
90	Copper Wire (Horn)	BL	BL	BL	BL	BL
91	Silver Magnet (Horn)	BL	BL	BL	BL	BL
92	Silver Metal Pedestal (Horn)	BL	BL	BL	BL	BL
93	Silver Metal Pin	BL	BL	BL	BL	BL
94	Silver Metal Microphone Components	BL	BL	BL	BL	BL
95	Blue Plastic Wire Outer Skin	BL	BL	BL	BL	BL
96	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
97	Wire Internal Metal Wire	BL	BL	BL	BL	BL
98	FPC	BL	BL	BL	BL	BL
99	Silver Metal Sheet	BL	BL	BL	BL	BL
100	Silver Metal Case	BL	BL	BL	BL	BL



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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
101	Black Camera Components	BL	BL	BL	BL	BL
102	Copper Foil	BL	BL	BL	BL	BL
103	Black Plastic Plug-In	BL	BL	BL	BL	BL
104	Gold Metal Terminal	BL	BL	BL	BL	BL
105	FPC	BL	BL	BL	BL	BL
106	Silver Metal Sheet	BL	BL	BL	BL	BL
107	Black Ceramic Body Chip	BL	BL	BL	BL	BL
108	Yellow Plastic Sticker	BL	BL	BL	BL	BL
109	Black Plastic Plug-In	BL	BL	BL	BL	BL
110	Gold Metal Terminal	BL	BL	BL	BL	BL
111	Black Rubber Cover	BL	BL	BL	BL	BL
112	Green Coating	BL	BL	BL	BL	BL
113	Plastic Button Substrate	BL	BL	BL	BL	BL
114	FPC	BL	BL	BL	BL	BL
115	Silver Metal Sheet	BL	BL	BL	BL	BL
116	Black Plastic Stickers	BL	BL	BL	BL	BL
117	Silver Metal Sheet	BL	BL	BL	BL	BL
118	Silver Metal Screws	BL	BL	BL	BL	BL
119	Silver Metal Case (Chip Cover)	BL	BL	BL	BL	BL
120	Gray Tape	BL	BL	BL	BL	BL



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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
121	Black Sponge Viscose	BL	BL	BL	BL	BL
122	White Label Stickers	BL	BL	BL	BL	BL
123	Yellow Plastic Sticker	BL	BL	BL	BL	BL
124	Gray Tape	BL	BL	BL	BL	BL
125	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
126	Wire Internal Metal Wire	BL	BL	BL	BL	BL
127	Gold Metal Plug	BL	BL	BL	BL	BL
128	Gray Coating	BL	BL	BL	BL	BL
129	White Plastic Case	BL	BL	BL	BL	BL
130	White Plastic Cover	BL	BL	BL	BL	BL
131	Silver Metal Round Plug	BL	BL	BL	BL	BL
132	Black Plastic Sheet	BL	BL	BL	BL	BL
133	PCB	BL	BL	BL	BL	X
134	Solder Point	BL	BL	BL	BL	BL
135	Black Ceramic Body Chip	BL	BL	BL	BL	BL
136	Patch Resistor	BL	BL	BL	BL	BL
137	Patch Diode	BL	BL	BL	BL	BL
138	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
139	Electrolytic Capacitor Outer Layer Plastic Leather	BL	BL	BL	BL	BL
140	Electrolytic Capacitor Silver Metal Case	BL	BL	BL	BL	BL



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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
141	Electrolytic Capacitor Internal Sticker	BL	BL	BL	BL	BL
142	Blue Ceramic Capacitance	BL	BL	BL	BL	BL
143	Silver Metal Pin	BL	BL	BL	BL	BL
144	Green Plastic Sticker	BL	BL	BL	BL	BL
145	Yellow Plastic Sticker	BL	BL	BL	BL	BL
146	Black Square Magnetic Ring	BL	BL	BL	BL	BL
147	Transformer Ceramic Frame	BL	BL	BL	BL	BL
148	Transformer Copper Winding	BL	BL	BL	BL	BL
149	White Viscose	BL	BL	BL	BL	BL
150	Silver Metal Sheet	BL	BL	BL	BL	BL
151	Black Heat Shrink Tube Sleeve	BL	BL	BL	BL	BL
152	Color Ring Resistance	BL	BL	BL	BL	BL
153	Silver Metal Pin	BL	BL	BL	BL	BL
154	Chromatic Ring Inductor	BL	BL	BL	BL	BL
155	Silver Metal Pin	BL	BL	BL	BL	BL
156	Electrolytic Capacitor Silver Metal Case	BL	BL	BL	BL	BL
157	Electrolytic Capacitor Internal Sticker	BL	BL	BL	BL	BL
158	Silver Metal Case (USB)	BL	BL	BL	BL	BL
159	Internal White Plastic (USB)	BL	BL	BL	BL	BL
160	Gold Metal Needles	BL	BL	BL	BL	BL



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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
161	White Soft Plastics	BL	BL	BL	BL	BL
162	Internal Translucent Plastic	BL	BL	BL	BL	BL
163	PCB	BL	BL	BL	BL	BL
164	Solder Point	BL	BL	BL	BL	BL
165	Silver Metal Case	BL	BL	BL	BL	BL
166	Internal Black Plastic	BL	BL	BL	BL	BL
167	Gold Metal Needles	BL	BL	BL	BL	BL
168	White Plastic Skin	BL	BL	BL	BL	BL
169	Silver Metal Wire	BL	BL	BL	BL	BL
170	Silver Shielding Paper	BL	BL	BL	BL	BL
171	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
172	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
173	Green Plastic Wire Outer Skin	BL	BL	BL	BL	BL
174	White Plastic Wire Outer Skin	BL	BL	BL	BL	BL
175	Wire Internal Metal Wire	BL	BL	BL	BL	BL
176	White Soft Plastics (USB)	BL	BL	BL	BL	BL
177	Internal Translucent Plastic (USB)	BL	BL	BL	BL	BL
178	Silver Metal Case (USB)	BL	BL	BL	BL	BL
179	Internal White Plastic (USB)	BL	BL	BL	BL	BL
180	Gold Metal Needles	BL	BL	BL	BL	BL
181	Solder Point	BL	BL	BL	BL	BL



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Remark:

(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.



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(3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives 2015/863/EU:

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
Polybrominate ddiphenylethers (PBDEs)	≤1000

(4) 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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2、 The Test Results of Chemical Method:

Test method:

Lead, Cadmium, Mercury Content:

With reference to IEC 62321-5:2013 and IEC62321-4:2013+AMD1:2017, by acid digestion and analysis was performed by Inductively Coupled Plasma- Atomic Emission Spectrophotometer (ICP-AES)

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

Hexavalent Chromium Content (For non-metal material):

With reference to 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)

DEHP, BBP, DBP&.DIBP content:

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



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1) The test results of Pb

Item	Unit	MDL	Results	Limit
			7	
Lead(Pb)	mg/kg	2	19717*	≤1000
Conclusion	/	/	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- *= the weight of lead in the copper alloy does not exceed 4%(40000ppm).



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2) The test results of PBBs & PBDEs

Item	Unit	MDL	Results		Limit
			15	33	
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	/
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	/
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	≤1000
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)					
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit



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

Item	Unit	MDL	Results					Limit
			1	2	3	4	6	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			9	10	11	12	13	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			14	15	17	18	19	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/



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Item	Unit	MDL	Results					Limit
			21	23	25	26	27	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			28	31	32	33	34	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			35	36	37	38	39	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/



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Item	Unit	MDL	Results					Limit
			40	42	45	47	48	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			50	53	56	57	58	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			59	60	62	64	65	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/



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Item	Unit	MDL	Results					Limit
			66	67	68	70	71	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			72	73	75	77	81	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			84	87	89	95	96	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/



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Item	Unit	MDL	Results					Limit
			98	101	103	105	107	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			108	109	111	112	113	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			114	116	120	121	122	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/



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Item	Unit	MDL	Results					Limit
			123	124	125	128	129	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			130	132	133	135	136	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			137	138	139	141	142	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/



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Item	Unit	MDL	Results					Limit
			144	145	146	147	149	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			151	152	154	157	159	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			161	162	163	166	168	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	79	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/



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Item	Unit	MDL	Results					Limit
			170	171	172	173	174	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results			Limit
			176	177	179	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- All data results in this report are from report: DTIBW20200269-1.
- Flow chart appendix is included.
- Photo appendix is included.



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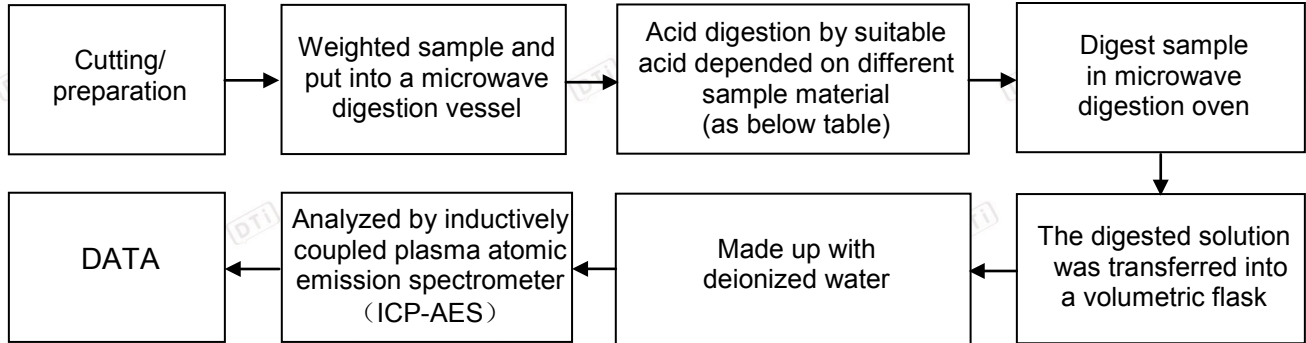
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Appendix I

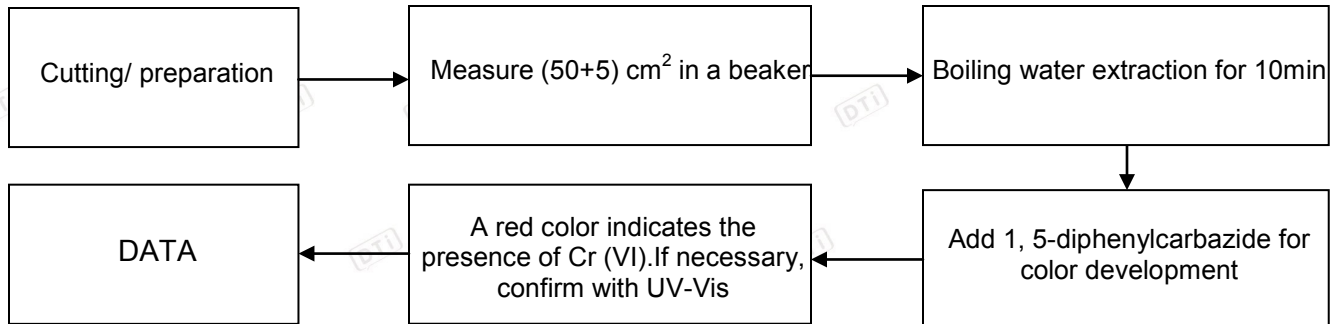
Test Flow chart

1. Test Flowchart for Cd / Pb /Hg content

These samples were dissolved totally by pre-conditioning method according to below flow chart.



2. Test Flowchart for Cr⁶⁺ content (Metal material)





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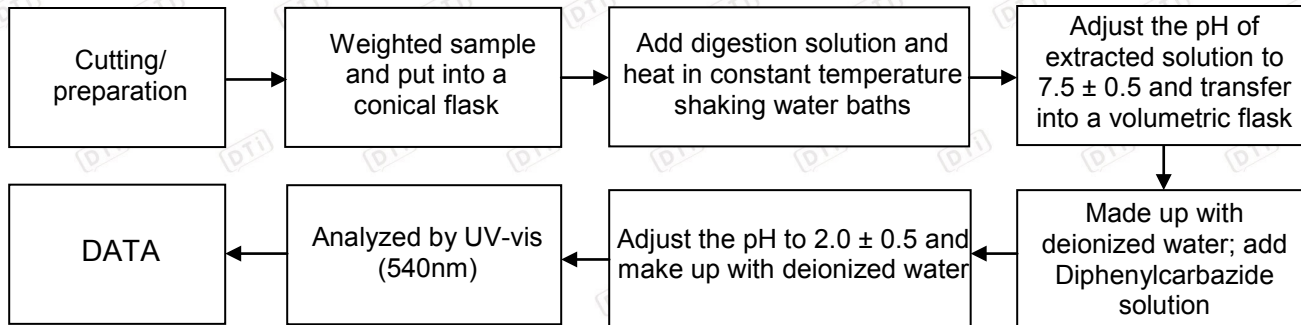
TEST REPORT

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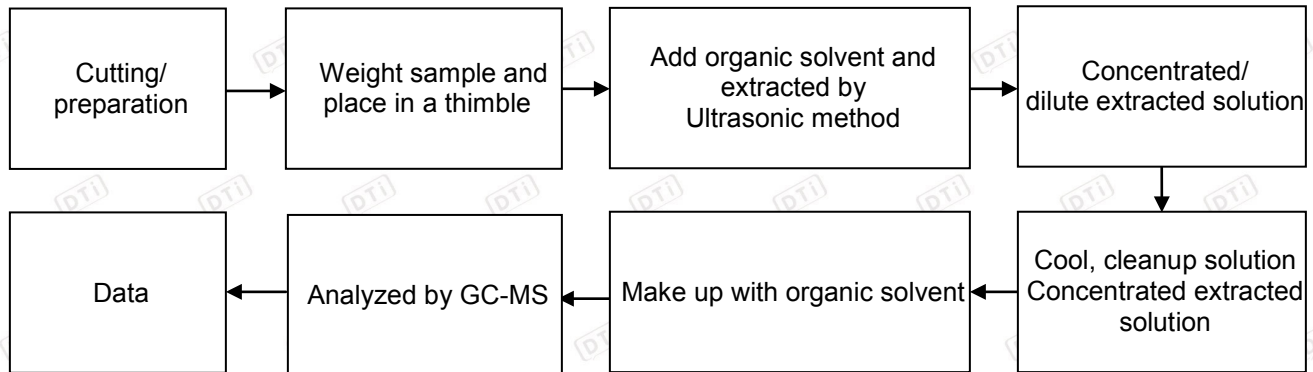
Date: 2020-06-16

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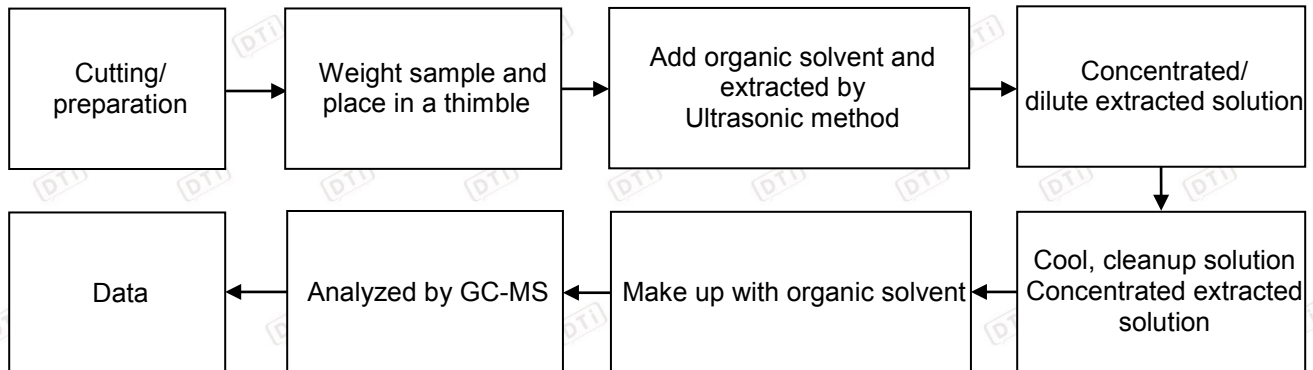
3. Test Flowchart for Cr⁶⁺ content (Non-metal material)



4. Test Flowchart for PBBs & PBDEs content



5. Test Flowchart for DEHP, BBP, DBP & DIBP content





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Table:

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion



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Appendix II

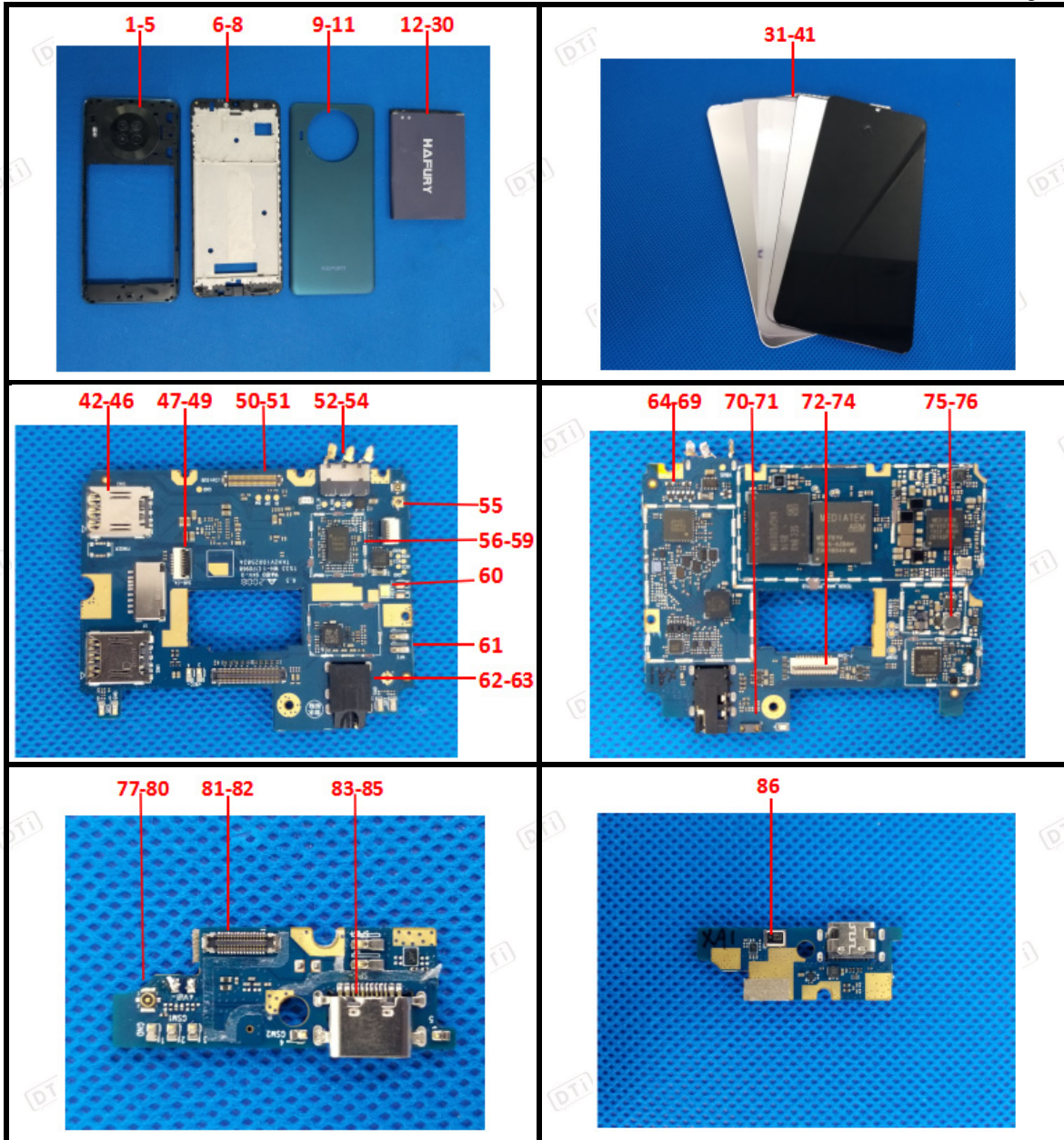
Photograph of Sample





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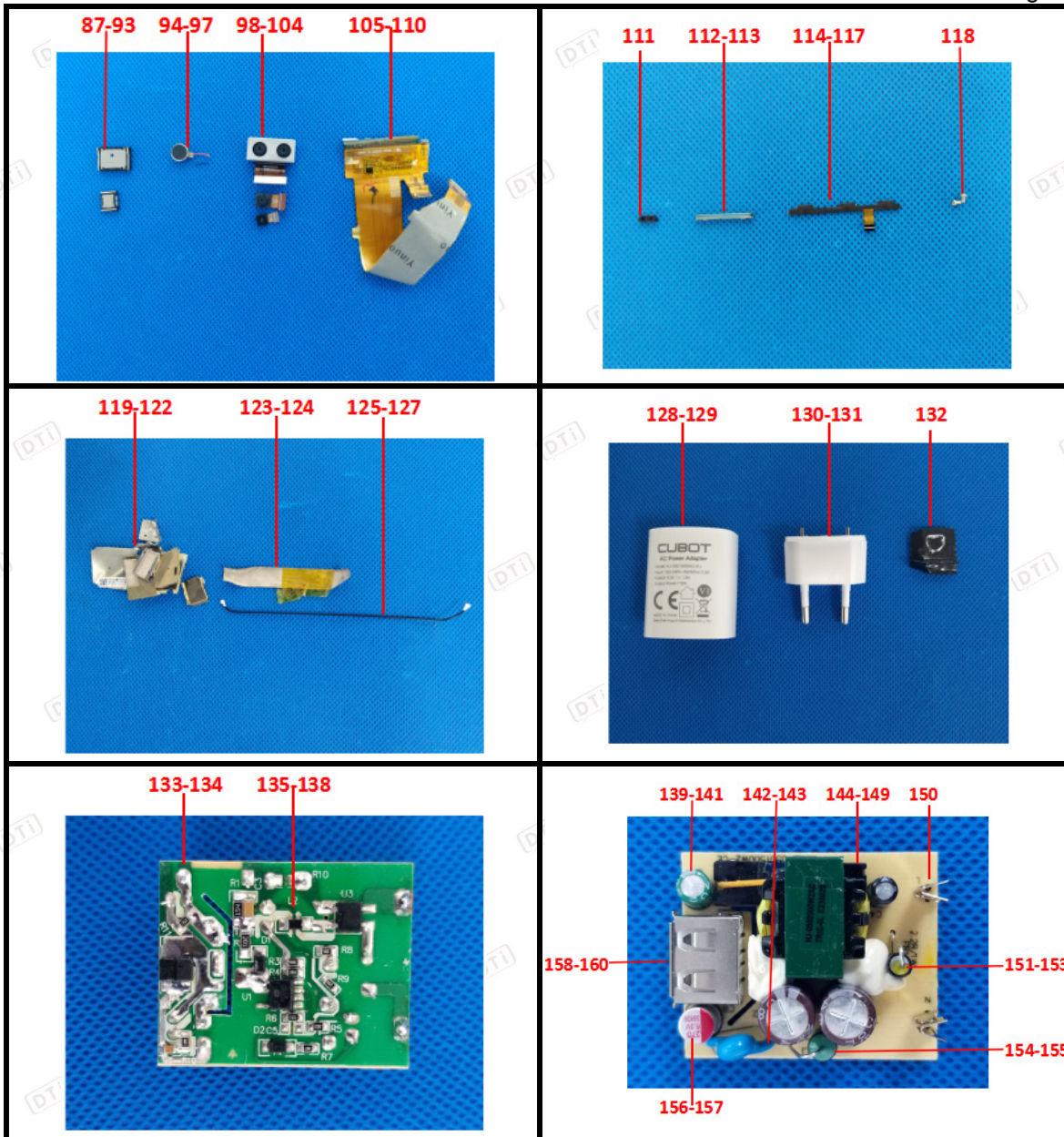






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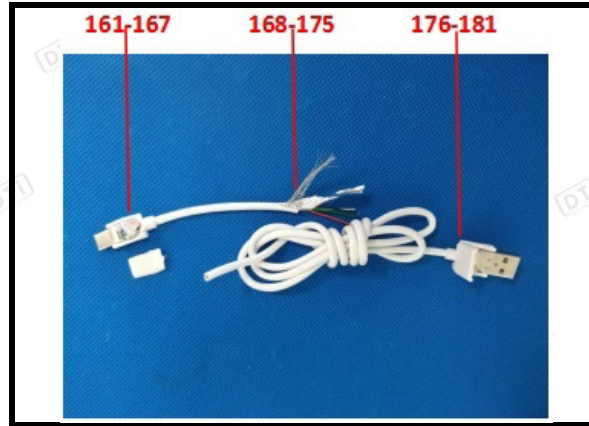


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*** End of Report ***



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