

Test Report

Report No.: AGC00552180404-001

Date: May 17, 2018

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Applicant: Shenzhen Huafurui Technology Co., Ltd.
Address: Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden),
Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district,
Shenzhen,P.R. China

Report on the submitted sample(s) said to be:

Sample Name: Smart Phone
Sample Model: J3
Brand: CUBOT
Manufacturer: Shenzhen Huafurui Technology Co., Ltd.
Address: Unit 1401 &1402, 14/F, Jin qi zhi gu mansion (No. 4 building of Chong wen Garden),
Crossing of the Liu xian street and Tang ling road, Tao yuan street, Nan shan district,
Shenzhen,P.R. China

Sample Received Date: May 07, 2018
Testing Period: May 07, 2018 to May 17, 2018

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

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

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

Tested by: Luoxiao

Reviewed by: Leon

Approved by: Lewis

Luoxiao

Suhongliang, Leon

Liulinwen, Lewis

Test Engineer

Test Team Leader

Technical Director



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Test Requested:
Conclusion

- As specified by client, to determine Lead(Pb), Cadmium(Cd), Mercury(Hg) content accordance with European Directive 2006/66/EC and its amendments 2013/56/EU.
- As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.

Pass

Pass

Test Result(s):
1. Test result of Lead(Pb), Cadmium(Cd), Mercury(Hg)

Unit: %,w/w

Test item(s)	Test Method/ Equipment	MDL	Result(s)	Limit
			77	
Lead (Pb)	Refer to IEC 62321-5:2013 ICP-OES	0.0005	N.D.	—
Cadmium (Cd)		0.0005	N.D.	0.002
Mercury (Hg)	Refer to IEC 62321-4:2013, ICP-OES	0.0001	N.D.	0.0005
Conclusion	/	/	Pass	/

Note:

- 0.1%,w/w=1000 mg/kg
- N.D.=Not Detected(less than method detection limit)
- MDL = Method Detection Limit
- “—” =Not regulated
- As specified by client, only test the designated sample.

Sample Description

77	Electric core(Battery)
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2. Test Methods:

 A: Screening by X-ray Fluorescence Spectrometry (XRF) :With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

 B: Chemical test:

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

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

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
1	Touch-screen glass (Touch-screen)	BL	BL	BL	BL	BL
2	FPC (Touch-screen)	BL	BL	BL	BL	BL
3	Chip IC (Touch-screen)	BL	BL	BL	BL	BL
4	Silver plastic back cover (Back cover)	BL	BL	BL	BL	BL
5	Camera lens (Back cover)	BL	BL	BL	BL	BL
6	Silver plated frame (Back cover)	BL	BL	BL	X*	BL
7	Black screw	BL	BL	BL	BL	-
8	Black plastic frame (Frame)	BL	BL	BL	BL	X*
9	Black FPC (Frame)	BL	BL	BL	BL	BL
10	White label (Frame)	BL	BL	BL	BL	BL
11	Polarizer (Display screen)	BL	BL	BL	BL	BL
12	Display glass (Display screen)	BL	BL	BL	BL	BL
13	Conductive adhesive (Display screen)	BL	BL	BL	BL	BL
14	White label (Display screen)	BL	BL	BL	BL	BL
15	Reflector panel (Display screen)	BL	BL	BL	BL	BL
16	Light guide plate (Display screen)	BL	BL	BL	BL	BL
17	Lower diffusion (Display screen)	BL	BL	BL	BL	BL
18	Upper intensify (Display screen)	BL	BL	BL	BL	BL
19	Metal plate (Display screen)	BL	BL	BL	X*	-
20	White plastic box (Display screen)	BL	BL	BL	BL	BL
21	Copper terminal (Antenna)	BL	BL	BL	BL	-
22	Black wire jacket (Antenna)	BL	BL	BL	BL	BL
23	FPC (FPC connecting board)	BL	BL	BL	BL	BL
24	Tin solder (FPC connecting board)	BL	BL	BL	BL	-

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
25	Silver metal shell (Back camera)	BL	BL	BL	BL	-
26	Transparent lens (Back camera)	BL	BL	BL	BL	BL
27	Black plastic seat (Back camera)	BL	BL	BL	BL	BL
28	Chip core (Back camera)	BL	BL	BL	BL	BL
29	FPC (Back camera)	BL	BL	BL	BL	BL
30	Transparent lens (Front camera)	BL	BL	BL	BL	BL
31	Black plastic seat (Front camera)	BL	BL	BL	BL	BL
32	Chip core (Front camera)	BL	BL	BL	BL	BL
33	FPC (Front camera)	BL	BL	BL	BL	BL
34	Black plastic frame (Speaker)	BL	BL	BL	BL	BL
35	Metal contact piece (Speaker)	BL	BL	BL	X*	-
36	Whitevibrating film (Speaker)	BL	BL	BL	BL	BL
37	Enameled coil (Speaker)	BL	BL	BL	BL	-
38	Magnetic shielding cover (Speaker)	BL	BL	BL	BL	-
39	Magnet (Speaker)	BL	BL	BL	BL	-
40	Metal shell (Motor)	BL	BL	BL	BL	-
41	Magnet (Motor)	BL	BL	BL	BL	-
42	Metal block (Motor)	BL	BL	BL	BL	-
43	Black plastic stents (Motor)	BL	BL	BL	BL	BL
44	Red wire jacket (Motor)	BL	BL	BL	BL	BL
45	Blue wire jacket (Motor)	BL	BL	BL	BL	BL
46	Black dust proof net (Receiver)	BL	BL	BL	BL	BL
47	Metal cover (Receiver)	BL	BL	BL	X*	-
48	Magnet (Receiver)	BL	BL	BL	BL	-
49	Black plastic frame (Receiver)	BL	BL	BL	BL	BL
50	Vibrating diaphragm (Receiver)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
51	Enameled wire (Receiver)	BL	BL	BL	BL	-
52	Black glue cap (Microphone)	BL	BL	BL	BL	BL
53	Tin solder (Microphone)	BL	BL	BL	BL	-
54	PCB board (Microphone)	BL	BL	BL	BL	BL
55	Copper shell (Microphone)	BL	BL	BL	BL	-
56	Tin solder (Microphone)	BL	BL	BL	BL	-
57	Red wire jacket (Microphone)	BL	BL	BL	BL	BL
58	Black wire jacket (Microphone)	BL	BL	BL	BL	BL
59	Metal button shrapnel (Press key FPC)	BL	BL	BL	X*	-
60	Black button plastic piece (Press key FPC)	BL	BL	BL	BL	BL
61	Metal shield cover (Main board)	BL	BL	BL	BL	-
62	White plastic connecting seat (Main board)	BL	BL	BL	BL	BL
63	Black plastic connecting seat (Main board)	BL	BL	BL	BL	BL
64	Micro metal connector (Main board)	BL	BL	BL	X*	-
65	Metal cover (SIM holder) (Main board)	BL	BL	BL	X*	-
66	Black plastic seat (SIM holder) (Main board)	BL	BL	BL	BL	BL
67	Contact pin (SIM holder) (Main board)	BL	BL	BL	BL	-
68	Black plastic seat (Battery seat) (Main board)	BL	BL	BL	BL	BL
69	Metal cover (Battery seat) (Main board)	BL	BL	BL	X*	-
70	Metal thimble (Battery seat) (Main board)	BL	BL	BL	BL	-
71	Chip IC (Main board)	BL	BL	BL	BL	BL
72	Chip capacitor (Main board)	BL	BL	BL	BL	BL
73	PCB board (Main board)	BL	BL	BL	BL	X*
74	Tin solder (Main board)	BL	BL	BL	BL	-
75	Black plastic audio holder (Main board)	BL	BL	BL	BL	BL
76	Battery label (Battery)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
78	Black plastic cover (Battery)	BL	BL	BL	BL	BL
79	Black rubber strip (Battery)	BL	BL	BL	BL	BL
80	Black PCB board (Battery)	BL	BL	BL	BL	X*
81	Tin solder (Battery)	BL	BL	BL	BL	-
Adapter						
82	White plastic shell (Outer shell)	BL	BL	BL	BL	BL
83	Metal plug (Outer shell)	BL	BL	BL	BL	-
84	White glue	BL	BL	BL	BL	BL
85	Metal contact piece	BL	BL	BL	BL	-
86	PCB board	BL	BL	BL	BL	X*
87	Tin solder	BL	BL	BL	BL	-
88	Chip rectifier bridge	BL	BL	BL	BL	BL
89	Chip IC	BL	BL	BL	BL	BL
90	Chip diode	BL	BL	BL	BL	X*
91	USB metal joint (USB joint)	BL	BL	BL	BL	-
92	Black plastic contact (USB joint)	BL	BL	BL	BL	X*
93	Contact pin (USB joint)	BL	BL	BL	BL	-
94	Black sleeving (Color ring resistance)	BL	BL	BL	BL	BL
95	Resistor body (Color ring resistance)	BL	BL	BL	X*	BL
96	Pin (Color ring resistance)	BL	BL	BL	BL	-
97	Diode body (Diode)	BL	BL	BL	BL	X*
98	Pin (Diode)	BL	BL	BL	BL	-
99	Chromatic ring inductor body (Chromatic ring inductor)	BL	BL	BL	BL	BL
100	Pin (Chromatic ring inductor)	BL	BL	BL	BL	-
101	Green sleeving (Electrolytic capacitor)	BL	BL	BL	BL	BL
102	Blue sleeving (Electrolytic capacitor)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
103	Sky blue tube (Electrolytic capacitor)	BL	BL	BL	BL	BL
104	Black rubber plug (Electrolytic capacitor)	BL	BL	BL	BL	BL
105	Pin (Electrolytic capacitor)	BL	BL	BL	BL	-
106	Electrolytic paper (Electrolytic capacitor)	BL	BL	BL	BL	BL
107	Anode foil (Electrolytic capacitor)	BL	BL	BL	BL	-
108	Cathode foil (Electrolytic capacitor)	BL	BL	BL	BL	-
109	Aluminum shell (Electrolytic capacitor)	BL	BL	BL	BL	-
110	Red tape (Transformer)	BL	BL	BL	BL	BL
111	Black plastic skeleton (Transformer)	BL	BL	BL	BL	BL
112	Yellow tape (Transformer)	BL	BL	BL	BL	BL
113	Enameled wire (Transformer)	BL	BL	BL	BL	-
114	Three layer insulated wire jacket (Transformer)	BL	BL	BL	BL	BL
115	Magnet frame (Transformer)	BL	BL	BL	BL	BL
USB line						
116	White handle (USB plug)	BL	BL	BL	BL	BL
117	Milk white inner glue (USB plug)	BL	BL	BL	BL	BL
118	Tin solder (USB plug)	BL	BL	BL	BL	-
119	White plastic plug (USB plug)	BL	BL	BL	BL	BL
120	Contact pin (USB plug)	BL	BL	BL	BL	-
121	USB metal plug (USB plug)	BL	BL	BL	BL	BL
122	Black plastic plug (Micro plug)	BL	BL	BL	X*	BL
123	Metal thimble (Micro plug)	BL	BL	BL	X*	-
124	Contact pin (Micro plug)	BL	BL	BL	BL	-
125	Micro metal plug (Micro plug)	BL	BL	BL	X*	-
126	White outer wire jacket (Wire)	BL	BL	BL	BL	BL
127	White wire jacket (Wire)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
128	Orange wire jacket (Wire)	BL	BL	BL	BL	BL
129	Wire core (Wire)	BL	BL	BL	BL	-
130	Black wire jacket (Wire)	BL	BL	BL	BL	BL
131	Gray wire jacket (Wire)	BL	BL	BL	BL	BL

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 limited

X= Inconclusive

“-“= Not regulated

*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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Remark:

- i Results were obtained by XRF for primary scanning, 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 above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- ii The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from RoHS directive 2011/65/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
Polybrominated diphenylethers (PBDEs)	1000

Disclaimers:

This XRF Scanning 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 scanning 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. The Test Results of Chemical Method:

 1) The Test Results of non-metal Cr⁶⁺

Test Item(s)	Unit	Result(s)		Limit
		95	122	
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	N.D.	1000

Note: N.D. = Not Detected or less than MDL
 MDL = Method Detection Limit

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 2) The Test Results of metal Cr⁶⁺

Test Item(s)	MDL	Result(s)						Limit
		6	19	35	47	59	64	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	Negative	Negative	Negative	Negative	#

Test Item(s)	MDL	Result(s)				Limit
		65	69	123	125	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	Negative	Negative	#

Note:

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
1	The sample solution is < the 0,10 µg/cm ² equivalent comparison standard solution	The sample is negative for Cr(VI) – The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is ≥ the 0,10 µg/cm ² and ≤ the 0,13 µg/cm ² equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3	The sample solution is > the 0,13 µg/cm ² equivalent comparison standard solution	The sample is positive for Cr(VI) – The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

- # = Negative indicates the absence of Cr(VI) on the tested areas concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
- Uncertainty indicates the absence of Cr(VI) on the tested areas unavoidable coating variations may influence the determination.
- Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).
- Storage conditions and production date of the tested sample are unavailable and thus result of Cr(VI) represent status of the sample at the time of testing.

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3) The Test Results of PBBs & PBDEs

Unit: mg/kg

Item(s)	MDL	Result(s)				Limit
		8	73	80	86	
Polybrominated Biphenyls (PBBs)						
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	
Polybrominated Diphenylethers (PBDEs)						
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	
Conclusion	/	Pass	Pass	Pass	Pass	/

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Unit: mg/kg

Item(s)	MDL	Result(s)			Limit
		90	92	97	
Polybrominated Biphenyls (PBBs)					
Monobromobiphenyl	5	N.D.	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	
Polybrominated Diphenylethers (PBDEs)					
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	
Conclusion	/	Pass	Pass	Pass	

Note: N.D. = Not Detected or less than MDL

MDL = Method Detection Limit

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Test Report

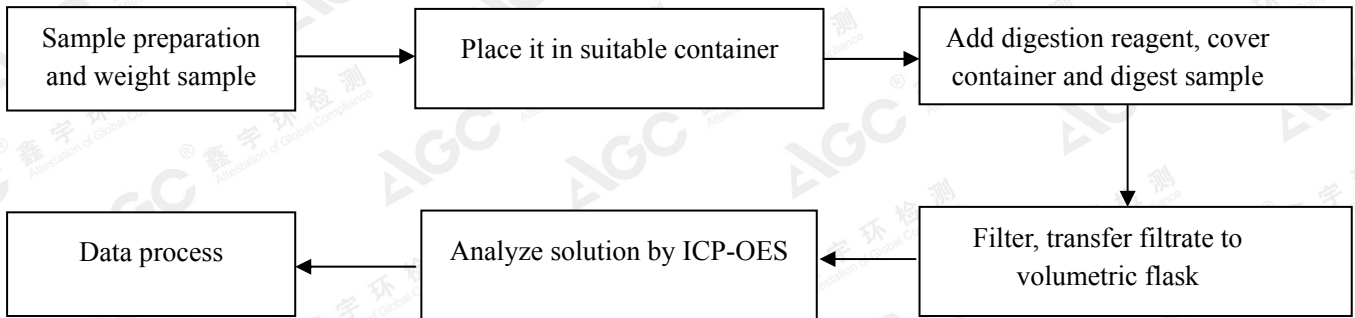
Report No.: AGC00552180404-001

Date: May 17, 2018

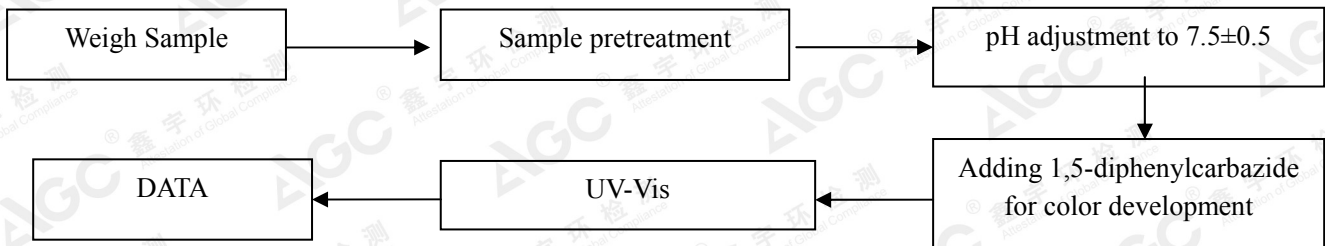
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Test Flow Chart

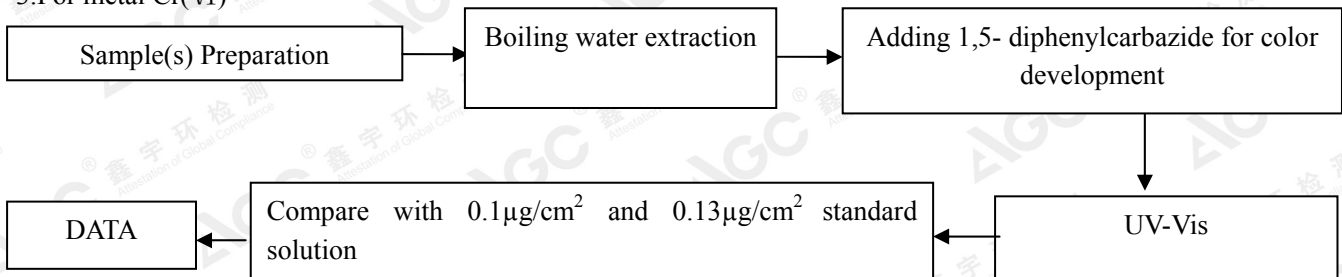
1. For Lead(Pb), Cadmium(Cd), Mercury(Hg)



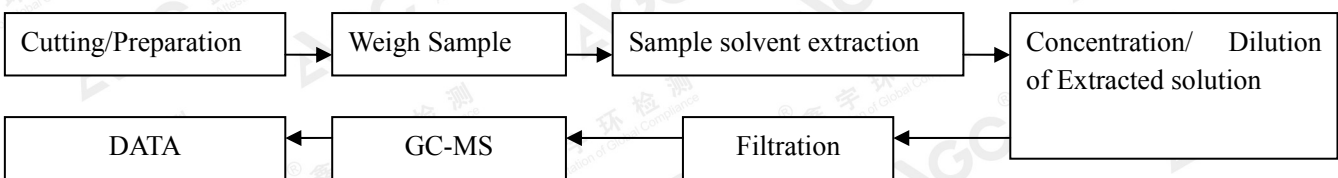
2. For non-metal Cr(VI)



3. For metal Cr(VI)



4. For PBBs & PBDEs



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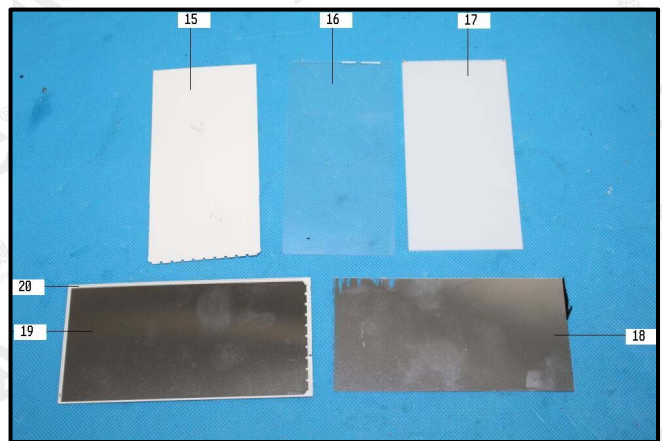
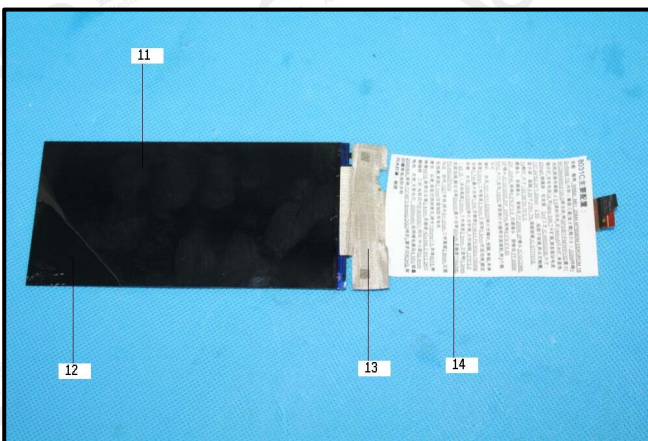
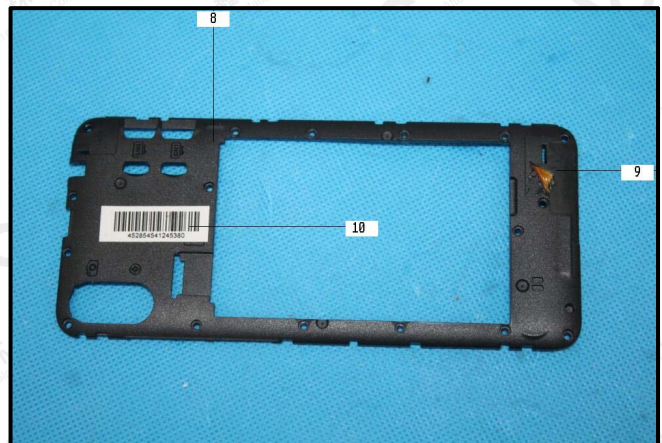
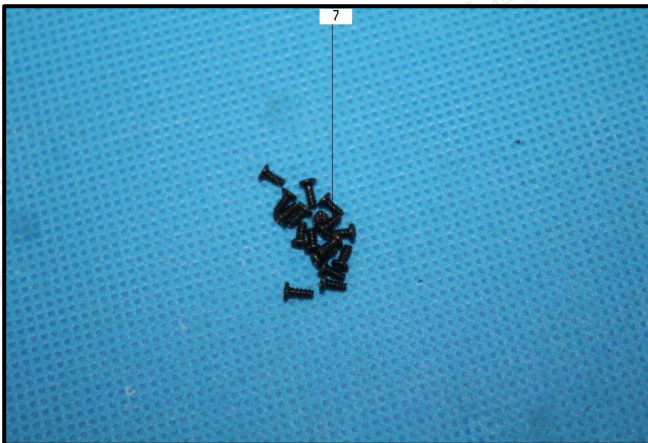
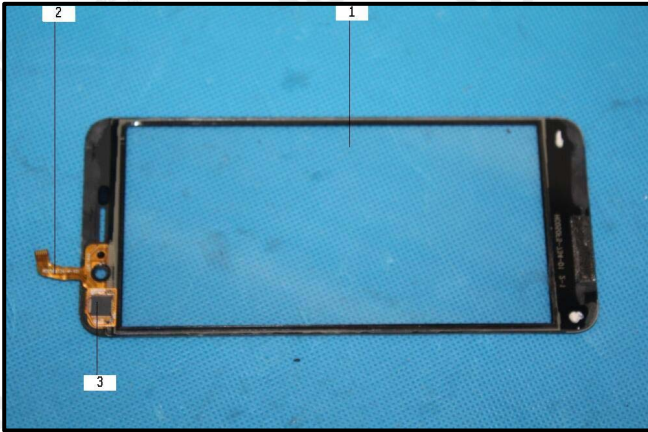
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The photo of the sample



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No.18 C

Attestation of Global Compliance Std. & Tech.

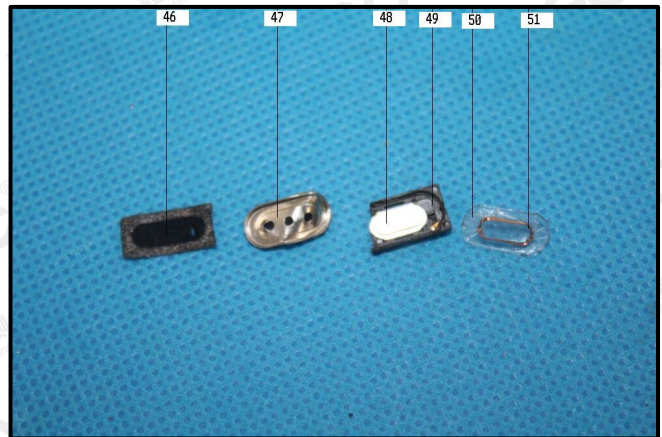
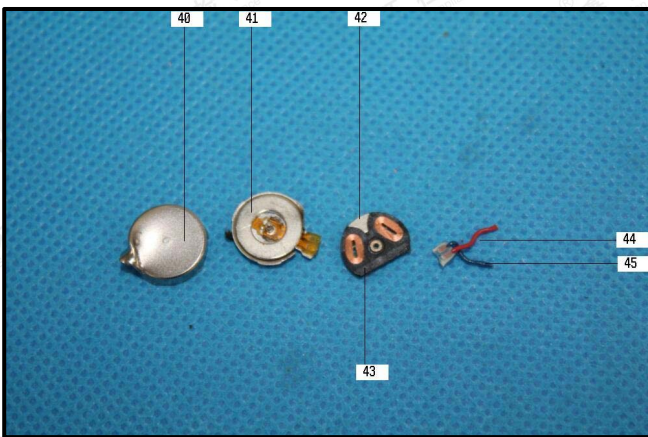
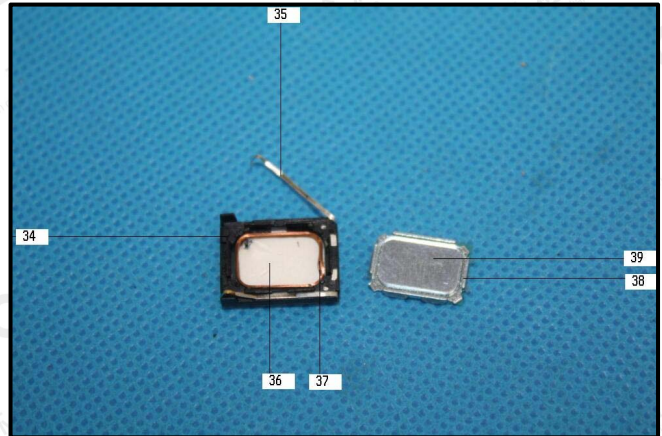
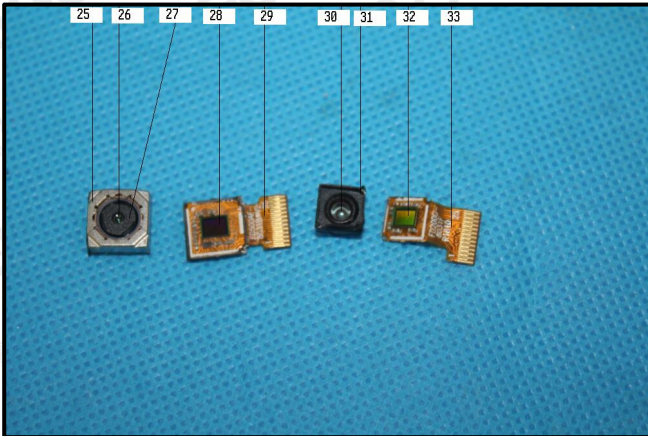
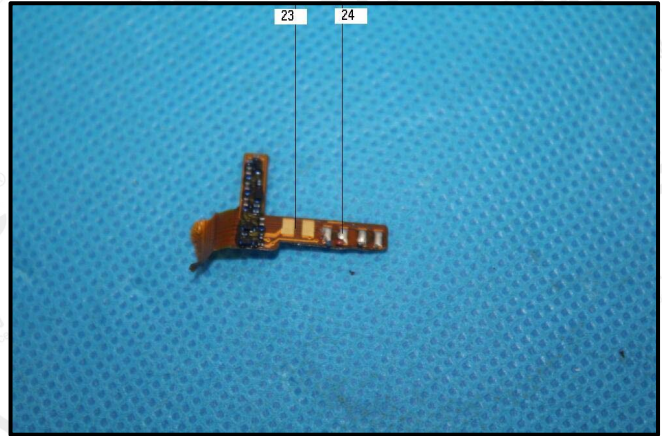
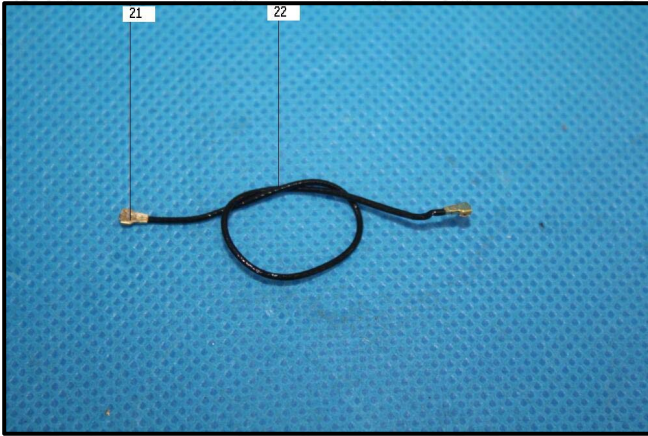
Tel: +86-755 8358 3833 Fax: +86-755 2531 6612 E-mail: agc01@agc-cert.com 400 089 2118
Add: Building 2, No. 171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

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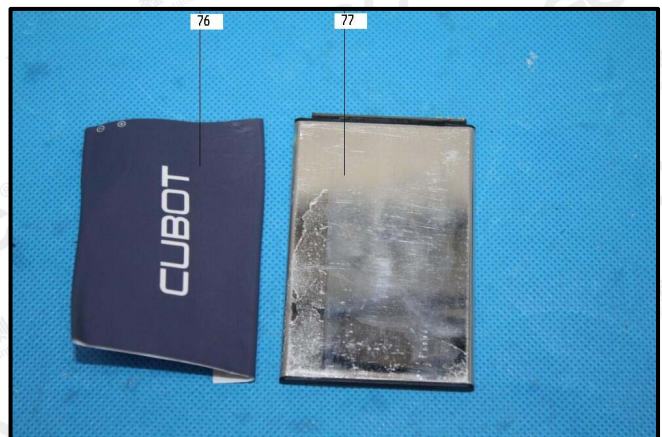
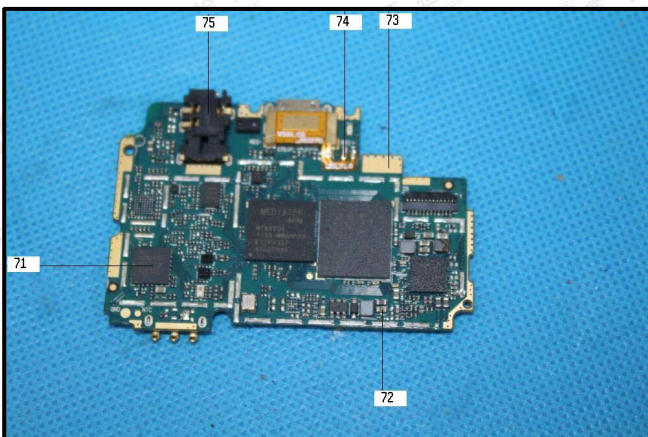
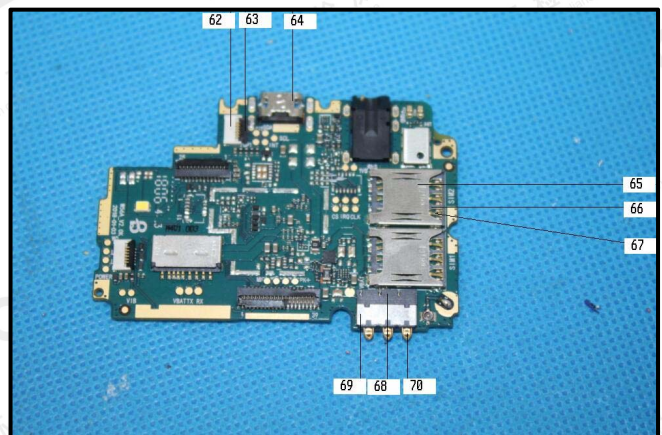
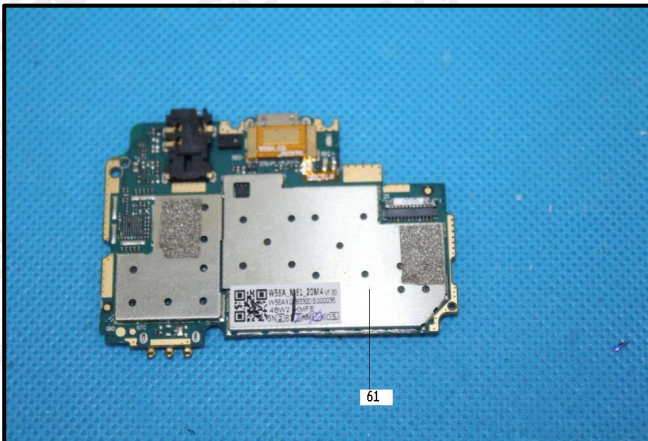
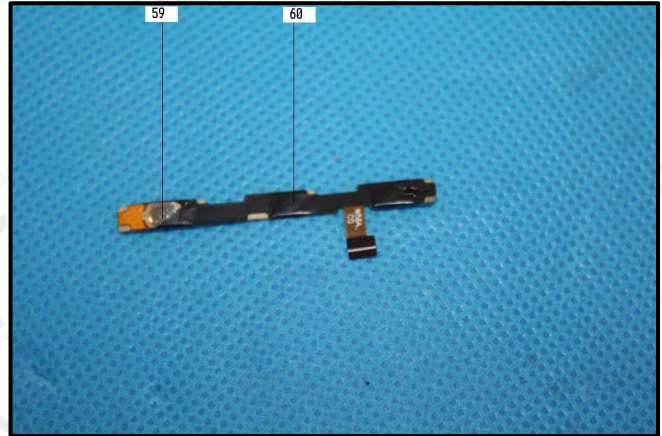
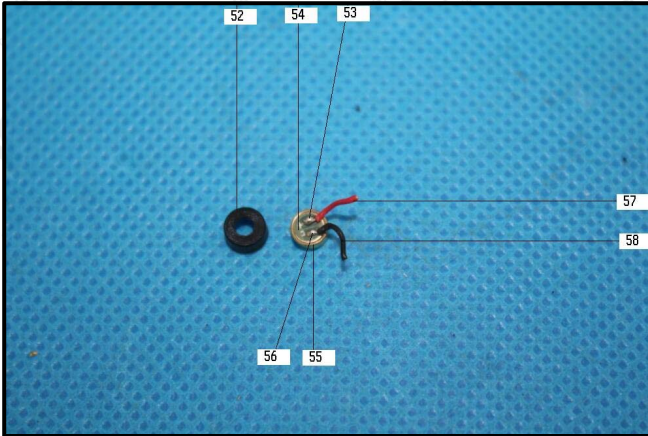
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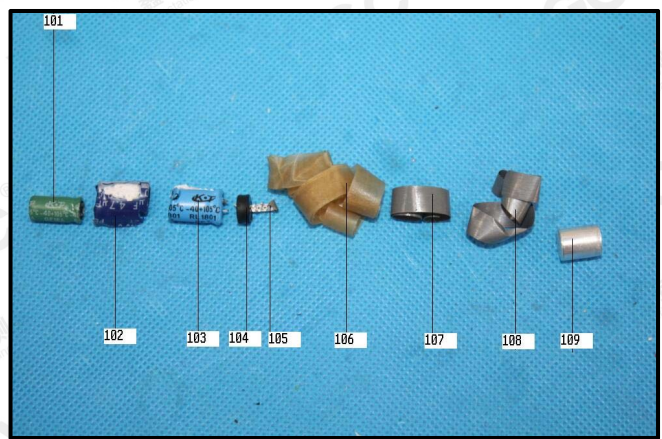
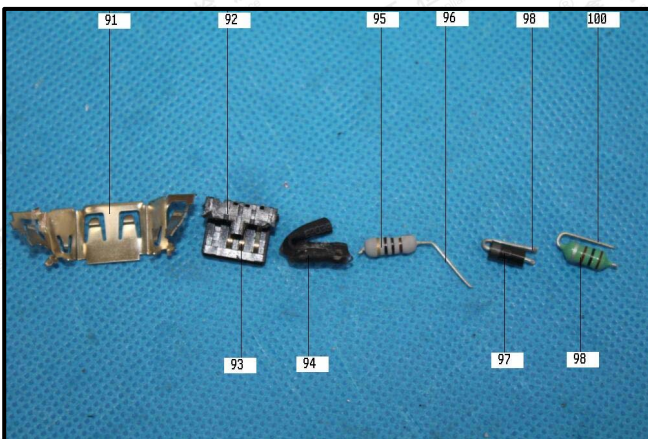
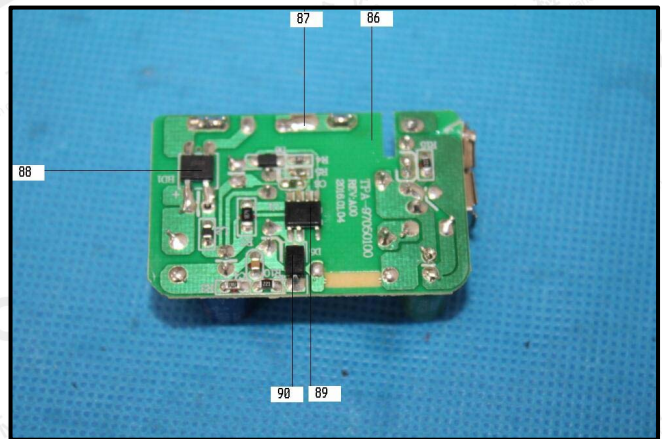
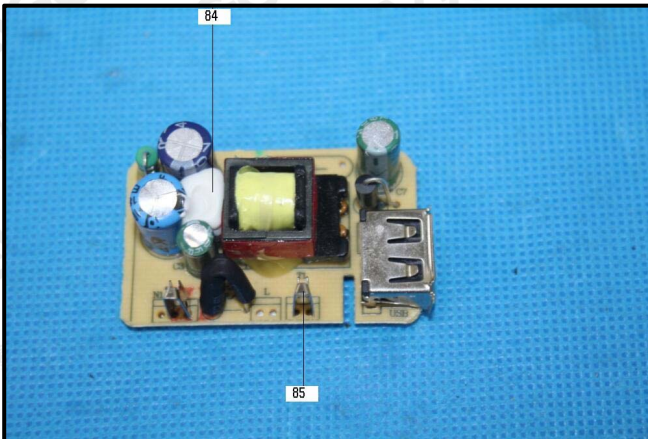
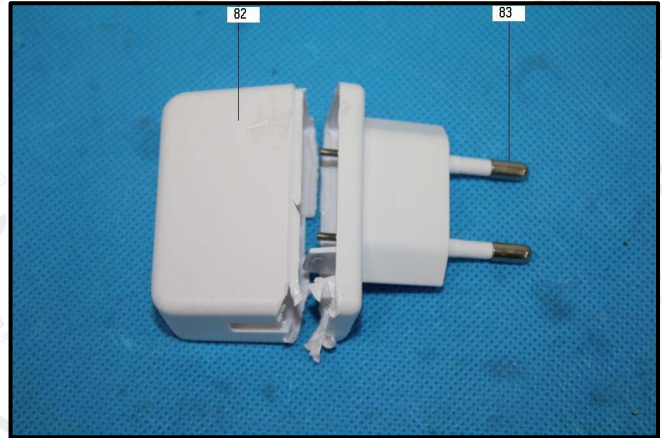
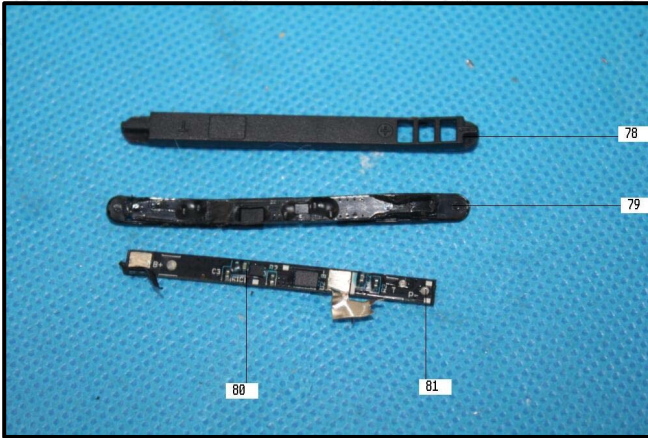


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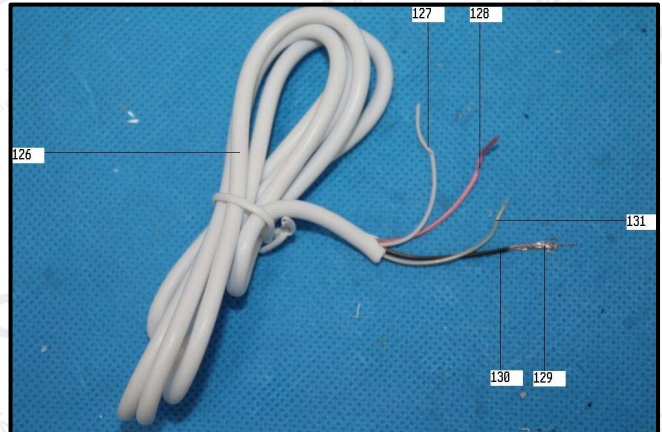
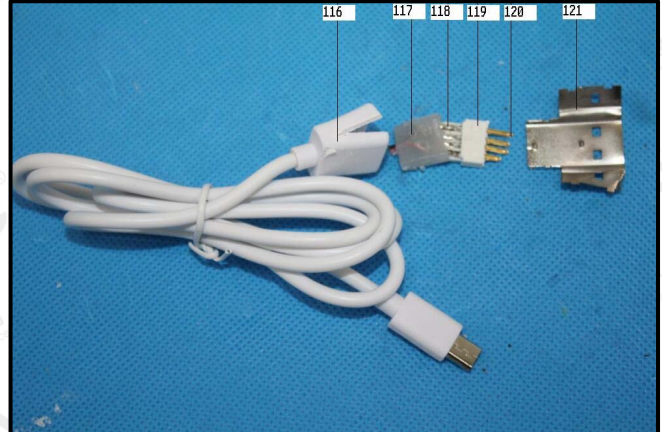
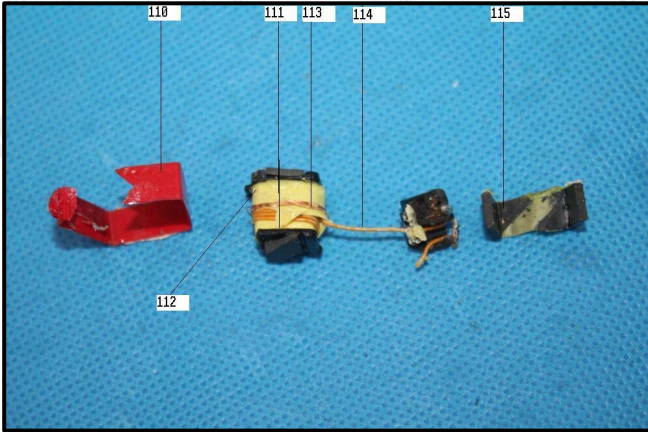


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AGC authenticate the photo only on original report

*** End of Report ***

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