

Test Report

Report No.: AGC-00552-19-08-02-001

Date: Oct.11, 2019

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Applicant: Shenzhen Huafului 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
Test site: 1,6/F.,Building 2,No. 1-4, Chaxi Sanwei Technical Industrial Park, Gushu, Xixiang, Baoan
District, Shenzhen, Guangdong, China

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

Sample Name: Smart Phone
Model: X20 PRO
Brand: CUBOT
Manufacturer: Shenzhen Huafului 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: Sep.25, 2019
Testing Period: Sep.25, 2019 to Oct.11, 2019
Test Requested: Please refer to following page(s).
Test Method: Please refer to following page(s).
Test Result: Please refer to following page(s).

Approved by: 
Linwen, Lewis
Technical Director



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Test Requested:

As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863 on XRF and Chemical Method.

Conclusion

Pass

Test Methods:

A: Screening by X-ray Fluorescence Spectrometry (XRF) : With reference to IEC 62321-3-1:2013 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	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg
Di-iso-butyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	50 mg/kg
Dibutyl phthalate (DBP)		GC-MS	50 mg/kg
Butylbenzyl phthalate (BBP)		GC-MS	50 mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		GC-MS	50 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(Display)	BL	BL	BL	BL	BL
2	Upper intensify(Display)	BL	BL	BL	BL	BL
3	Under intensify(Display)	BL	BL	BL	BL	BL
4	Reflector panel(Display)	BL	BL	BL	BL	BL
5	Lower diffusion(Display)	BL	BL	BL	BL	BL
6	Light guide plate(Display)	BL	BL	BL	BL	BL
7	White plastic box(Display)	BL	BL	BL	BL	BL
8	Silver metal shell(Display)	BL	BL	BL	X*	N/A
9	FPC(Display)	BL	BL	BL	BL	BL
10	Black plastic frame	BL	BL	BL	BL	BL
11	Silver metal frame	BL	BL	BL	X*	N/A
12	Camera lens(Camera cover)	BL	BL	BL	BL	BL
13	Silver metal shell(Camera cover)	BL	BL	BL	BL	N/A
14	black plastic back cover	BL	BL	BL	BL	BL
15	Silver screw	BL	BL	BL	X*	N/A
16	Silver metal shell(speaker)	BL	BL	BL	BL	N/A
17	Black plastic frame(speaker)	BL	BL	BL	BL	BL
18	Copper contact piece(speaker)	BL	BL	BL	X*	N/A
19	Silver metal shell(motor)	BL	BL	BL	BL	N/A
20	Red wire jacket(motor)	BL	BL	BL	BL	BL
21	Blue wire jacket(motor)	BL	BL	BL	BL	BL
22	Silver metal shell(Camera)	BL	BL	BL	X*	N/A
23	Black plastic seat(Camera)	BL	BL	BL	BL	BL
24	Copper foil(Camera)	BL	BL	BL	BL	N/A

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
25	Camera lens(Camera)	BL	BL	BL	BL	BL
26	Black rubber ring	BL	BL	BL	BL	BL
27	Metal shrapnel(Switch board)	BL	BL	BL	X*	N/A
28	Metal plate(Switch board)	BL	BL	BL	BL	N/A
29	FPC(Switch board)	BL	BL	BL	X*	BL
30	Black wire jacket(antenna)	BL	BL	BL	BL	BL
31	Copper stylus(Little PCB)	BL	BL	BL	X*	N/A
32	Chip microphone(Little PCB)	BL	BL	BL	BL	BL
33	TYpe-c Silver Metal Joint(TYPE-C connector) (Little PCB)	BL	BL	BL	X*	N/A
34	Grey plastic joint(TYPE-C connector) (Little PCB)	BL	BL	BL	BL	BL
35	Grey plastic joint(Little PCB)	BL	BL	BL	BL	BL
36	PCB(Little PCB)	BL	BL	BL	BL	X*
37	Tin solder(Little PCB)	BL	BL	BL	BL	N/A
38	Chip capacitor(PCB)	BL	BL	BL	BL	BL
39	Chip diode(PCB)	BL	BL	BL	BL	BL
40	Chip IC(PCB)	BL	BL	BL	BL	BL
41	Chip crystal oscillator(PCB)	BL	BL	BL	BL	BL
42	Gray plastic holder(Memory card holder) (PCB)	BL	BL	BL	BL	BL
43	Silver metal shell(Memory card holder) (PCB)	BL	BL	BL	X*	N/A
44	Ferrous metal chuck(Memory card holder) (PCB)	BL	BL	BL	X*	N/A
45	White plastic terminal seat(Terminal block) (PCB)	BL	BL	BL	BL	BL
46	Black plastic terminal buckle(Terminal block) (PCB)	BL	BL	BL	BL	BL
47	Chip LED(PCB)	BL	BL	BL	BL	BL
48	Chip inductor(PCB)	BL	BL	BL	BL	BL
49	Brown tape(PCB)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
50	Shield cover(PCB)	BL	BL	BL	X*	N/A
51	PCB(PCB)	BL	BL	BL	BL	BL
52	Tin solder(PCB)	BL	BL	BL	BL	N/A
53	Silver metal sheet(Battery)	BL	BL	BL	BL	N/A
54	FPC(Battery)	BL	BL	BL	BL	BL
55	Brown tape(Battery)	BL	BL	BL	BL	BL
56	PCB(Battery)	BL	BL	BL	BL	BL
Adapter						
57	White plastic shell(Shell)	BL	BL	BL	BL	BL
58	Metal plug(Shell)	BL	BL	BL	BL	N/A
59	Brown sleeve(Electrolytic capacitor) (Main board)	BL	BL	BL	BL	BL
60	Green sleeving(Electrolytic capacitor) (Main board)	BL	BL	BL	BL	BL
61	Black sleeving(Electrolytic capacitor) (Main board)	BL	BL	BL	BL	BL
62	Blue tape(Transformer) (Main board)	BL	BL	BL	BL	BL
63	Yellow tape(Transformer) (Main board)	BL	BL	BL	BL	BL
64	Black plastic skeleton(Transformer) (Main board)	BL	BL	BL	BL	BL
65	White plastic contact(USB connector) (Main board)	BL	BL	BL	BL	X*
66	USB Silver Metal Connector(USB connector) (Main board)	BL	BL	BL	BL	N/A
67	Black plastic sheet(Main board)	BL	BL	BL	BL	X*
68	Silver touch(Main board)	BL	BL	BL	BL	N/A
69	Black sleeving(Color ring resistance) (Main board)	BL	BL	BL	BL	BL
70	PCB(Main board)	BL	BL	BL	BL	X*
71	Tin solder(Main board)	BL	BL	BL	BL	N/A
72	Rectifier bridge(Main board)	BL	BL	BL	BL	BL
USB line						

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
73	White handle(USB plug)	BL	BL	BL	BL	BL
74	White inner glue(USB plug)	BL	BL	BL	BL	BL
75	White plastic plug(USB plug)	BL	BL	BL	BL	BL
76	USB Silver Metal Plug(USB plug)	BL	BL	BL	BL	N/A
77	Tin solder(USB plug)	BL	BL	BL	BL	N/A
78	PCB(TYPE-C plug)	BL	BL	BL	BL	X*
79	Gray plastic plug(TYPE-C plug)	BL	BL	BL	BL	BL
80	Tin solder(TYPE-C plug)	BL	BL	BL	BL	N/A
81	White plastic plug(TYPE-C plug)	BL	BL	BL	BL	BL
82	Type-c metal plug(TYPE-C plug)	BL	BL	BL	X*	N/A
83	White outer wire jacket(Wire rod)	BL	BL	BL	BL	BL
84	Red wire jacket(Wire rod)	BL	BL	BL	BL	BL
85	White wire jacket(Wire rod)	BL	BL	BL	BL	BL
86	Green wire jacket(Wire rod)	BL	BL	BL	BL	BL
87	Black wire jacket(Wire rod)	BL	BL	BL	X*	BL

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

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

“N/A”= Not applicable

*= 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.
- 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 and its amendment directive (EU) 2015/863:

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
Polybrominateddiphenylethers (PBDEs)	1000
Di-iso-butyl phthalate (DIBP)	1000
Dibutyl phthalate (DBP)	1000
Butylbenzyl phthalate (BBP)	1000
Di-(2-ethylhexyl) Phthalate (DEHP)	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
		29	87	
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	N.D.	1000

Note: N.D. = Not Detected or less than MDL
mg/kg = parts per million
MDL = Method Detection Limit

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2) The Test Results of metal Cr⁶⁺

Test Item(s)	MDL	Result(s)						Limit
		8	11	15	18	22	27	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	Negative	Negative	Negative	Negative	#

Test Item(s)	MDL	Result(s)						Limit
		31	33	43	44	50	82	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	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
		36	65	67	70	78	
Polybrominated Biphenyls (PBBs)							
Monobromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	
Polybrominated Diphenylethers (PBDEs)							
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	/	N.D.	N.D.	N.D.	N.D.	N.D.	
Conclusion	/	Pass	Pass	Pass	Pass	Pass	/

Note: N.D. = Not Detected or less than MDL
 mg/kg = parts per million
 MDL = Method Detection Limit

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5) Test result of DBP, BBP, DEHP, DIBP content

Unit: mg/kg

Seq. No.	Limit Test item	DIBP	DBP	BBP	DEHP	Conclusion
		1000	1000	1000	1000	
1		N.D.	N.D.	N.D.	N.D.	Pass
2		N.D.	N.D.	N.D.	N.D.	Pass
3		N.D.	N.D.	N.D.	N.D.	Pass
4		N.D.	N.D.	N.D.	N.D.	Pass
5		N.D.	N.D.	N.D.	N.D.	Pass
6		N.D.	N.D.	N.D.	N.D.	Pass
7		N.D.	N.D.	N.D.	N.D.	Pass
9		N.D.	N.D.	N.D.	N.D.	Pass
10		N.D.	N.D.	N.D.	N.D.	Pass
12		N.D.	N.D.	N.D.	N.D.	Pass
14		N.D.	N.D.	N.D.	N.D.	Pass
17		N.D.	N.D.	N.D.	N.D.	Pass
20		N.D.	N.D.	N.D.	N.D.	Pass
21		N.D.	N.D.	N.D.	N.D.	Pass
23		N.D.	N.D.	N.D.	N.D.	Pass
25		N.D.	N.D.	N.D.	N.D.	Pass
26		N.D.	N.D.	N.D.	N.D.	Pass
29		N.D.	N.D.	N.D.	N.D.	Pass
30		N.D.	N.D.	N.D.	N.D.	Pass
32		N.D.	N.D.	N.D.	N.D.	Pass
34		N.D.	N.D.	N.D.	N.D.	Pass
35		N.D.	N.D.	N.D.	N.D.	Pass
36		N.D.	N.D.	N.D.	N.D.	Pass
38		N.D.	N.D.	N.D.	N.D.	Pass
39		N.D.	N.D.	N.D.	N.D.	Pass
40		N.D.	N.D.	N.D.	N.D.	Pass

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Seq. No.	Test item Limit	DIBP	DBP	BBP	DEHP	Conclusion
		1000	1000	1000	1000	
41		N.D.	N.D.	N.D.	N.D.	Pass
42		N.D.	N.D.	N.D.	N.D.	Pass
45		N.D.	N.D.	N.D.	N.D.	Pass
46		N.D.	N.D.	N.D.	N.D.	Pass
47		N.D.	N.D.	N.D.	N.D.	Pass
48		N.D.	N.D.	N.D.	N.D.	Pass
49		N.D.	N.D.	N.D.	N.D.	Pass
51		N.D.	N.D.	N.D.	N.D.	Pass
54		N.D.	N.D.	N.D.	N.D.	Pass
55		N.D.	N.D.	N.D.	N.D.	Pass
56		N.D.	N.D.	N.D.	N.D.	Pass
57		N.D.	N.D.	N.D.	N.D.	Pass
59		N.D.	N.D.	N.D.	N.D.	Pass
60		N.D.	N.D.	N.D.	N.D.	Pass
61		N.D.	N.D.	N.D.	N.D.	Pass
62		N.D.	N.D.	N.D.	N.D.	Pass
63		N.D.	N.D.	N.D.	N.D.	Pass
64		N.D.	N.D.	N.D.	N.D.	Pass
65		N.D.	N.D.	N.D.	N.D.	Pass
67		N.D.	N.D.	N.D.	N.D.	Pass
69		N.D.	N.D.	N.D.	N.D.	Pass
70		N.D.	N.D.	N.D.	N.D.	Pass
72		N.D.	N.D.	N.D.	N.D.	Pass
73		N.D.	N.D.	N.D.	N.D.	Pass
74		N.D.	N.D.	N.D.	N.D.	Pass
75		N.D.	N.D.	N.D.	N.D.	Pass
78		N.D.	N.D.	N.D.	N.D.	Pass
79		N.D.	N.D.	N.D.	N.D.	Pass

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Seq. No.	Test item Limit	DIBP	DBP	BBP	DEHP	Conclusion
		1000	1000	1000	1000	
81		N.D.	N.D.	N.D.	N.D.	Pass
83		N.D.	N.D.	N.D.	N.D.	Pass
84		N.D.	N.D.	N.D.	N.D.	Pass
85		N.D.	N.D.	N.D.	N.D.	Pass
86		N.D.	N.D.	N.D.	N.D.	Pass
87		N.D.	N.D.	N.D.	N.D.	Pass

- Note:**
1. MDL = Method Detection Limit
 2. N.D. = Not Detected (less than method detection limit)

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Test Report

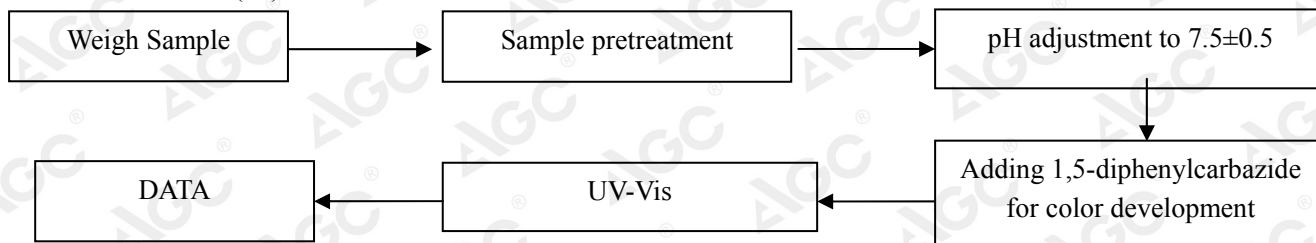
Report No.: AGC-00552-19-08-02-001

Date: Oct.11, 2019

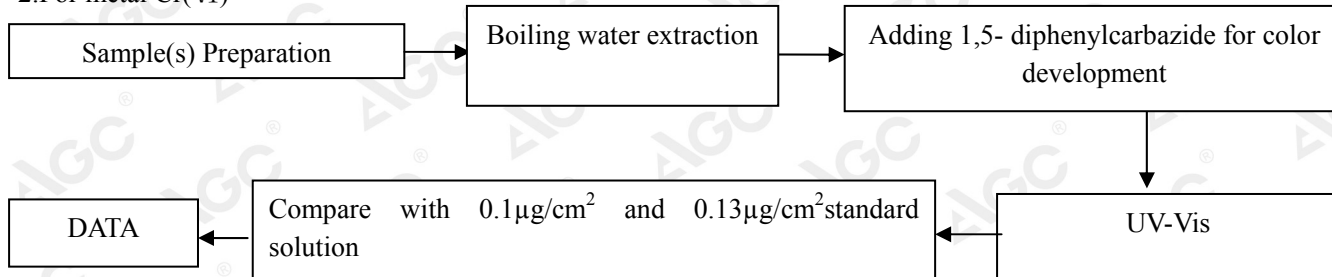
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Test Flow Chart

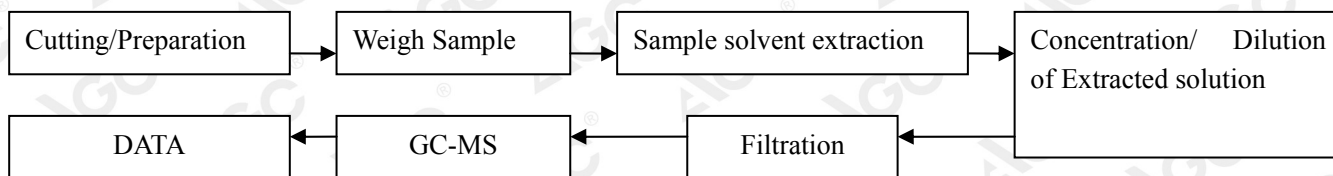
1. For non-metal Cr(VI)



2. For metal Cr(VI)



3. For PBBs, PBDEs, DBP, BBP, DEHP, DIBP



As client's request, test results of No.57 to No.87 copied from test results of No.57 to No.87 of test report No.AGC-00552-19-08-03-001 respectively.

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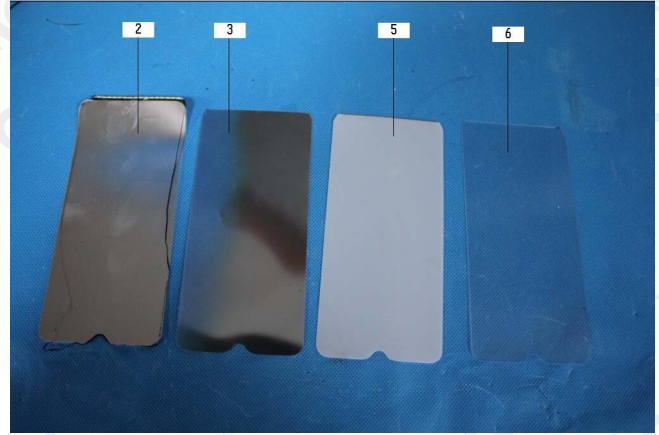
Date: Oct.11, 2019

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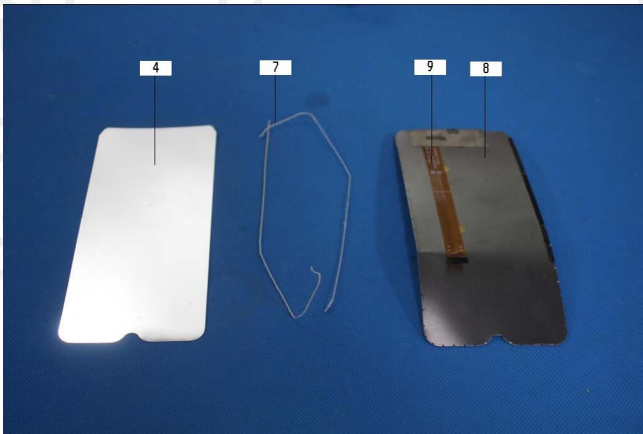
The photo of the sample



1



2



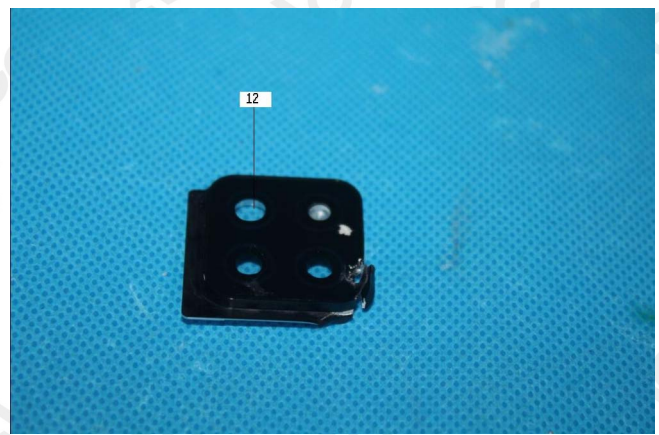
3



4



5



6

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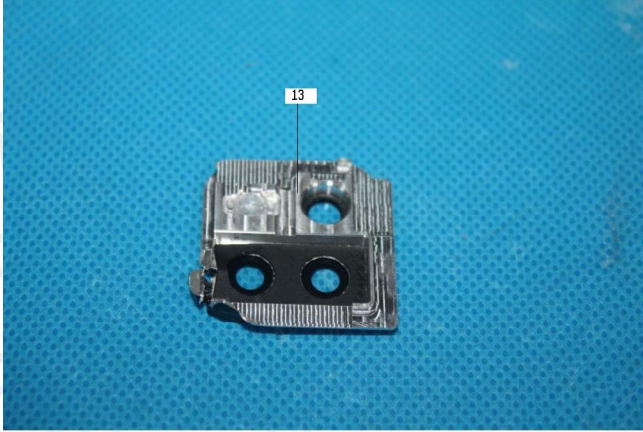


Test Report

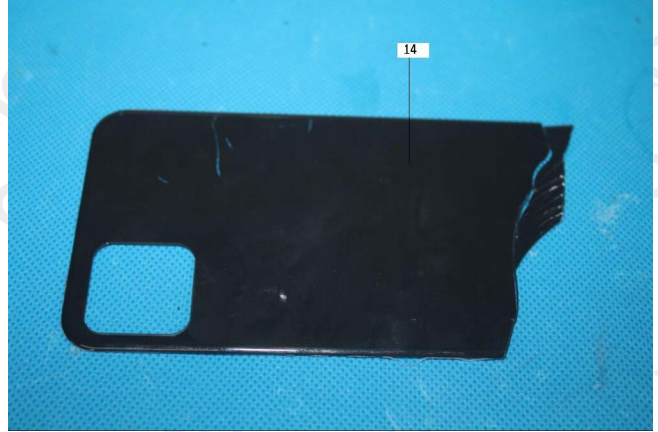
Report No.: AGC-00552-19-08-02-001

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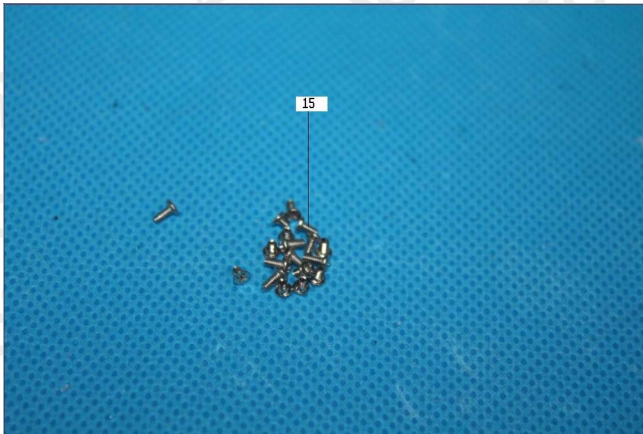
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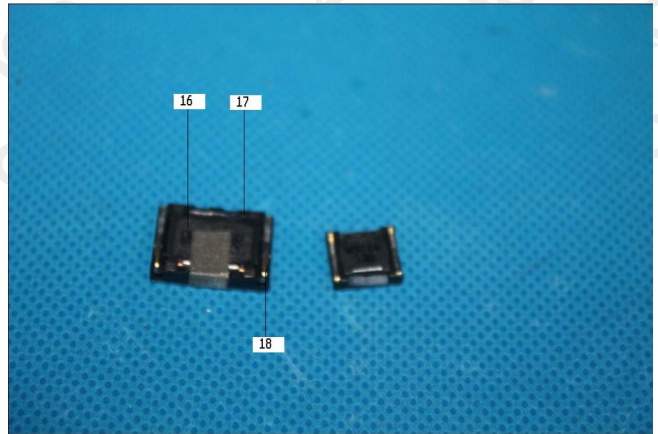
7



8



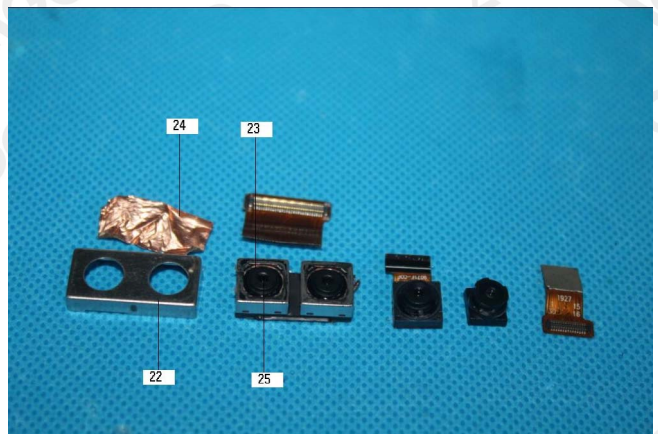
9



10



11



12

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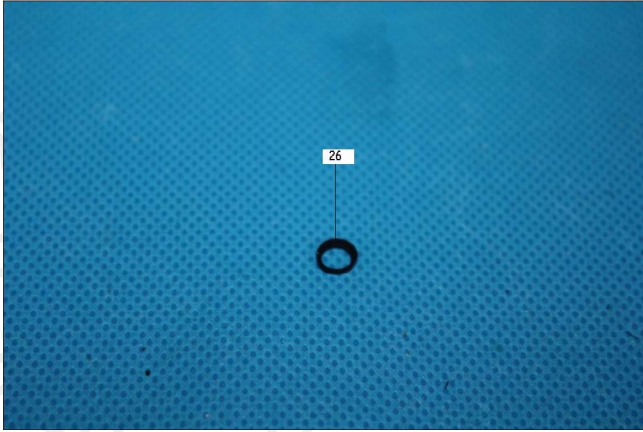


Test Report

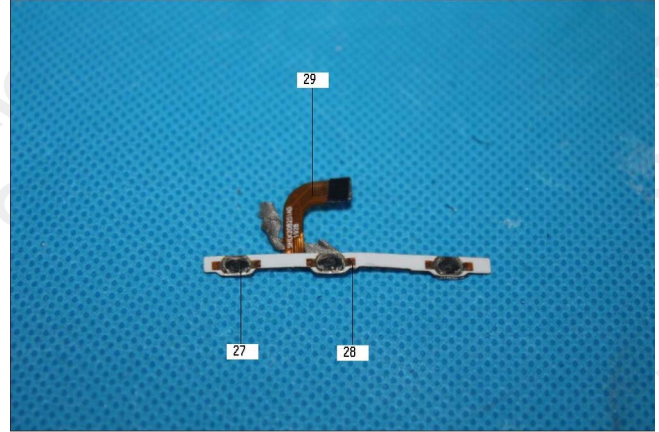
Report No.: AGC-00552-19-08-02-001

Date: Oct.11, 2019

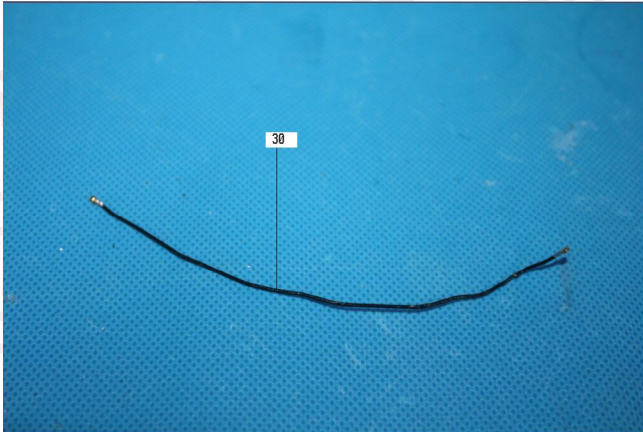
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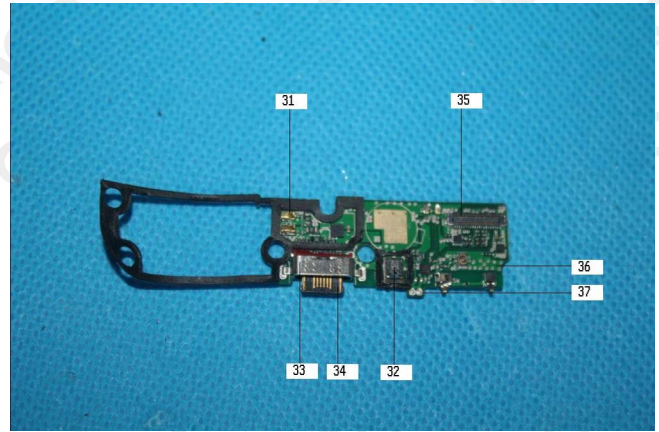
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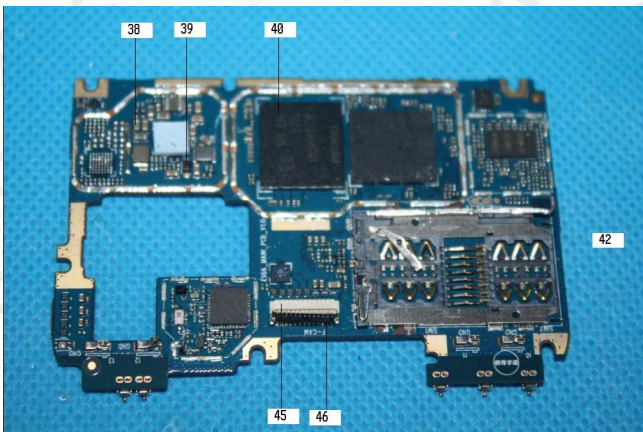
14



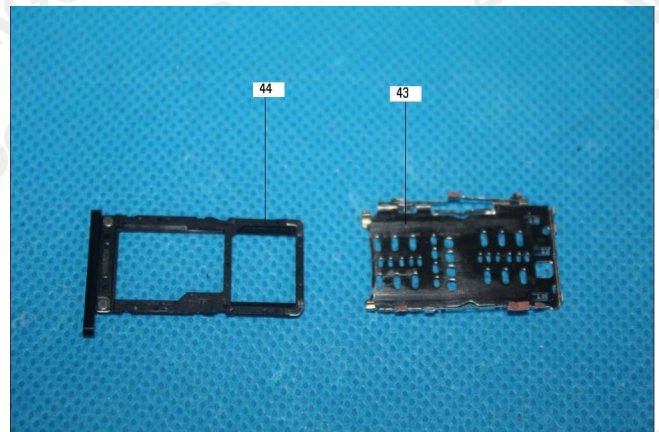
15



16



17



18

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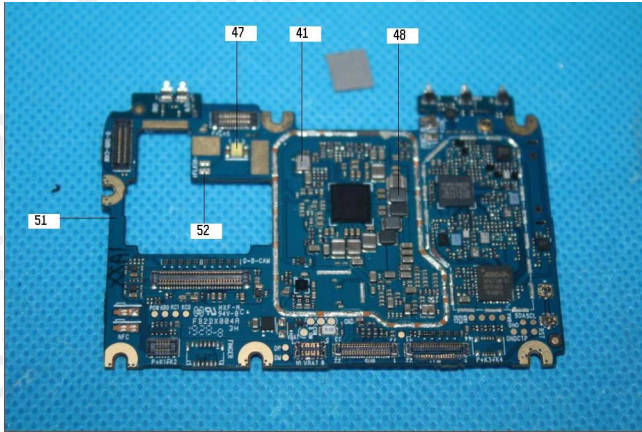


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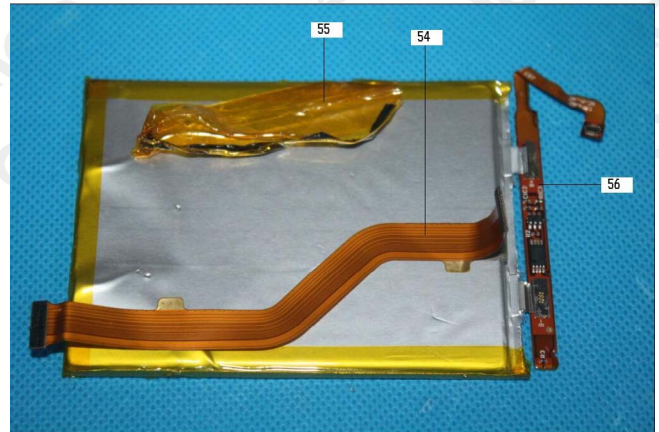
19



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24

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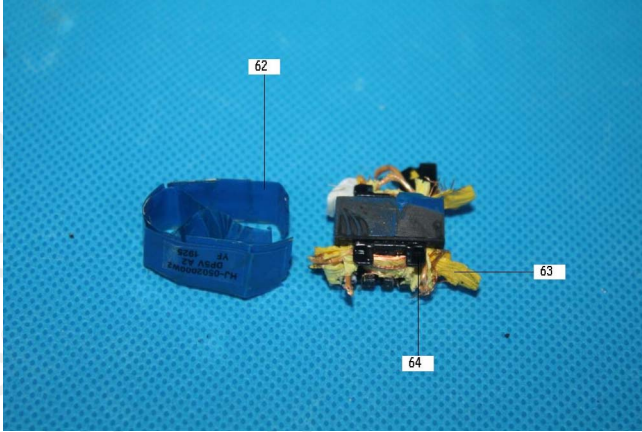


Test Report

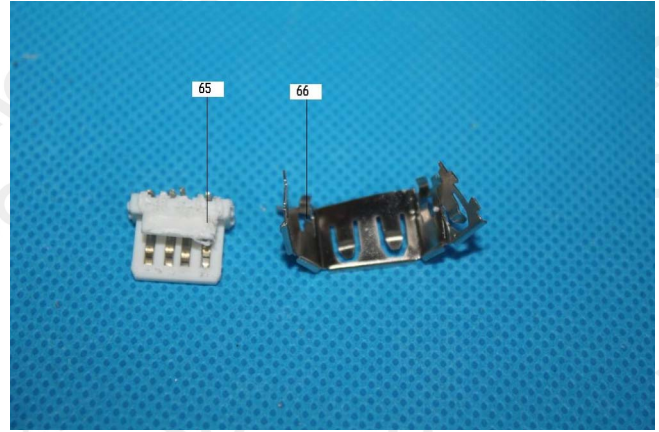
Report No.: AGC-00552-19-08-02-001

Date: Oct.11, 2019

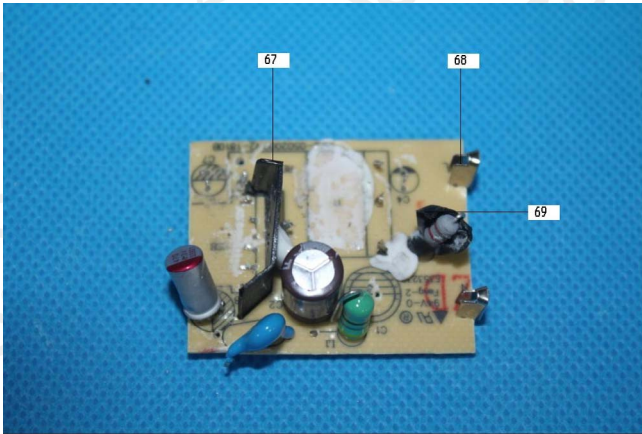
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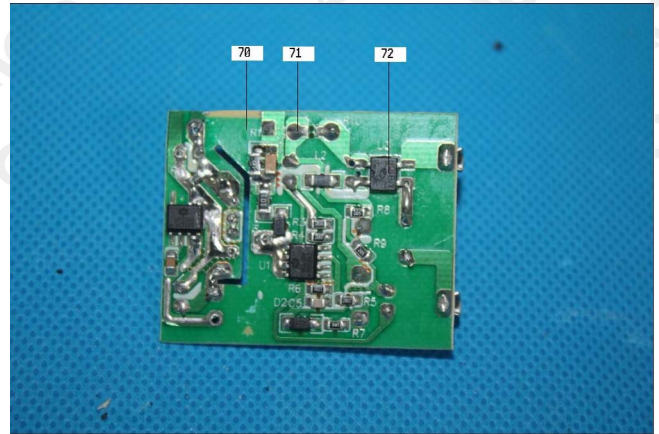
25



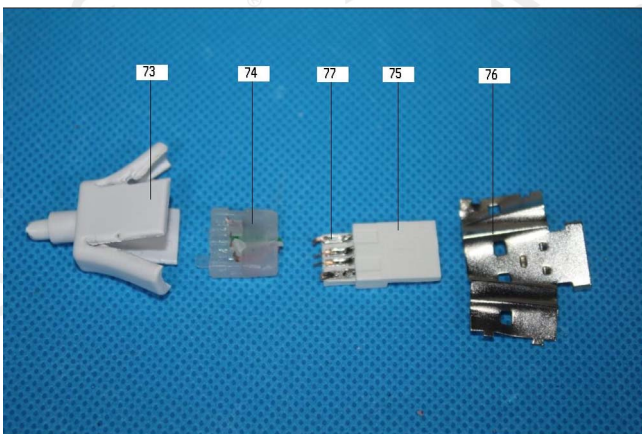
26



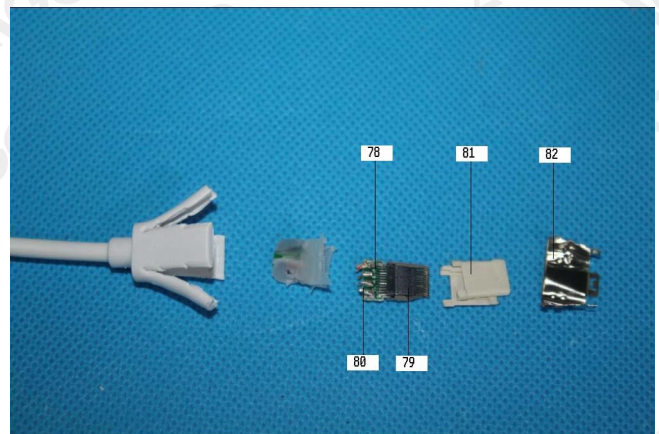
27



28



29



30

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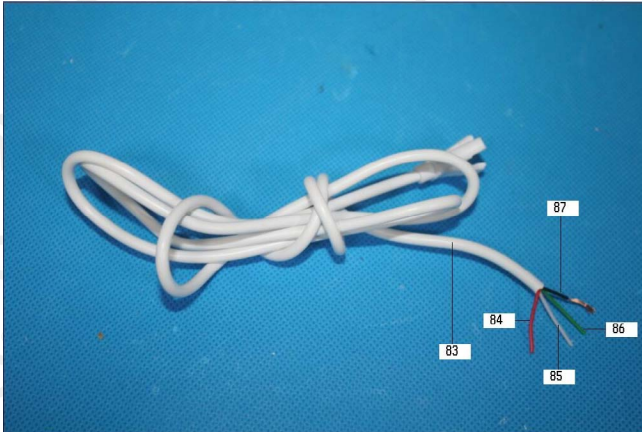
No.18 C

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AGC authenticate the photo only on original report

*** End of Report ***

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No.18 C