Test Report

Report No.: AGC-04094-19-09-06-002 Date: Sep.16, 2019 Page1 of 15

Applicant: Xindao B.V.

Address: P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands

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: Swiss Peak Luxury 5W wireless charger

Sample Model: P308.06

Sample Received Date: Sep.06, 2019

Testing Period: Sep.06, 2019 to Sep.16, 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:

Liulinwen, Lewis

Technical Director

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

Test Report

Report No.: AGC-04094-19-09-06-002 Date: Sep.16, 2019 Page2 of 15

Test Requested: **Conclusion**

As specified by client, to determine the Pb, Cd, Hg, Cr^{6+}, 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. **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

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

Test Report

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	Black leather(outer shell)	BL	BL	BL	BL	BL
2	Black mesh cloth(outer shell)	BL	BL	BL	BL	BL
3	Grey black coating(outer shell)	BL	BL	BL	BL	BL
4	White plastic shell(outer shell)	BL	BL	BL	BL	BL
5	Black plastic shell(outer shell)	BL	BL	BL	BL	BL
6	Transparent plastic film(outer shell)	BL	BL	BL	BL	BL
7	Silver screw	BL	BL	BL	BL	N/A
8	Brown tape(induction coil)	BL	BL	BL	BL	BL
9	Pink wire jacket(induction coil)	BL	BL	BL	BL	BL
10	Wire core(induction coil)	BL	BL	BL	BL	N/A
11	Gray ceramic(induction coil)	BL	BL	BL	X*	BL
12	Black foam glue(induction coil)	BL	BL	BL	BL	BL
13	White plastic terminal head(connecting board)	BL	BL	BL	BL	BL
14	Wire core(connecting board)	BL	BL	BL	BL	N/A
15	Red wire jacket(connecting board)	BL	BL	BL	BL	BL
16	Black wire jacket(connecting board)	BL	BL	BL	BL	BL
17	Tin solder(connecting board)	BL	BL	BL	BL	N/A
18	PCB(connecting board)	BL	BL	BL	BL	X*
19	Micro silver metal joint(Micro joint)(connecting board)	BL	BL	BL	BL	N/A
20	Micro gray plastic joint(Micro joint)(connecting board)	BL	BL	BL	BL	BL
21	Contact pin(Micro joint)(connecting board)	BL	BL	BL	BL	N/A
22	Chip capacitor(main board)	BL	BL	BL	BL	BL
23	Chip diode(main board)	BL	BL	BL	BL	BL
24	Chip resistor(main board)	BL	BL	BL	BL	BL

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

Test Report

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
25	IC body(main board)	BL	BL	BL	BL	BL
26	Tin plating(main board)	BL	BL	BL	BL	N/A
27	USB silver metal joint(USB joint)(main board)	BL	BL	BL	BL	N/A
28	USB gray plastic joint(USB joint)(main board)	BL	BL	BL	BL	BL
29	Contact pin(USB joint)(main board)	BL	BL	BL	BL	N/A
30	Black inductance(inductance)(main board)	BL	BL	BL	BL	BL
31	Enameled wire(inductance)(main board)	BL	BL	BL	BL	N/A
32	Milky terminal seat(main board)	BL	BL	BL	BL	BL
33	Brown capacitor(main board)	BL	BL	BL	BL	BL
34	PCB(main board)	BL	BL	BL	BL	X*
35	Tin solder(main board)	BL	BL	BL	BL	N/A
36	Chip LED(main board)	BL	BL	BL	BL	BL
37	Black foam glue(main board)	BL	BL	BL	BL	BL
38	TYPE-C silver metal joint(TYPE-C joint)(main board)	BL	BL	BL	X*	N/A
39	TYPE-C gray plastic joint(TYPE-C joint)(main board)	BL	BL	BL	BL	BL
40	Contact pin(TYPE-C joint)(main board)	BL	BL	BL	BL	N/A
41	Black metal handle(USB plug)	BL	BL	BL	BL	N/A
42	Black inner glue(USB plug)	BL	BL	BL	BL	BL
43	USB white plastic plug(USB plug)	BL	BL	BL	BL	BL
44	USB silver metal plug(USB plug)	BL	BL	BL	BL	N/A
45	Tin solder(USB plug)	BL	BL	BL	BL	N/A
46	Black inner glue(Micro plug)	BL	BL	BL	BL	BL
47	Micro gray plastic plug(Micro plug)	BL	BL	BL	BL	BL
48	Contact pin(Micro plug)	BL	BL	BL	BL	N/A
49	Pin(Micro plug)	BL	BL	BL	X*	N/A
50	Micro silver metal plug(Micro plug)	BL	BL	BL	X*	N/A

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

Test Report

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
51	Tin solder(Micro plug)	BL	BL	BL	BL	N/A
52	Black braided wire(wire rod)	BL	BL	BL	BL	BL
53	White wire jacket(wire rod)	BL	BL	BL	BL	BL
54	Black wire jacket(wire rod)	BL	BL	BL	BL	BL
55	Wire core(wire rod)	BL	BL	BL	BL	N/A
56	Red wire jacket(wire rod)	BL	BL	BL	BL	BL
57	Black leather	BL	BL	BL	BL	BL
58	Black metal buckle	BL	BL	BL	BL	N/A

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.

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

Test Report

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.

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

B、The Test Results of Chemical Method:

1) The Test Results of non-metal Cr^{6+}

Test Item(s)	Unit	Result(s)	Limit
		11	
Hexavalent Chromium(Cr^{6+})	mg/kg	N.D.	1000

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

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

2)The Test Results of metalCr^{6+}

Test Item(s)	MDL	Result(s)			Limit
		38	49	50	
Hexavalent Chromium (Cr^{6+})	See note	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/cm² equivalent comparison standard solution	The sample is negative for Cr(VI) − The Cr(VI) concentration is below the limit ofquantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is ≥ the 0,10 μg/cm² and ≤ the0,13 μg/cm² equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence thedetermination.
3	The sample solution is > the 0,13 μg/cm² equivalent comparison standard solution	The sample is positive for Cr(VI) − The Cr(VI) concentration is above the limit of quantification andthe statistical margin of error. The sample coating isconsidered 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 areasunavoidable coating variations may influence the determination.

Positive indicates the presence of Cr(VI) on the tested areas concentration is above the limit of quantification andthe statistical margin of error. The sample coating isconsidered 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.

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

Test Report

3) The Test Results of PBBs & PBDEs

Unit: mg/kg

Item(s)	MDL	Result(s)		Limit
		18	34	
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	5	N.D.	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	N.D.	
Tribromobiphenyl	5	N.D.	N.D.	
Tetrabromobiphenyl	5	N.D.	N.D.	
Pentabromobiphenyl	5	N.D.	N.D.	
Hexabromobiphenyl	5	N.D.	N.D.	
Heptabromobiphenyl	5	N.D.	N.D.	
Octabromobiphenyl	5	N.D.	N.D.	
Nonabromodiphenyl	5	N.D.	N.D.	
Decabromodiphenyl	5	N.D.	N.D.	
Total content	/	N.D.	N.D.	
PolybrominatedDiphenylethers (PBDEs)				
Monobromodiphenyl ether	5	N.D.	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	N.D.	
Tribromodiphenyl ether	5	N.D.	N.D.	
Tetrabromodiphenyl ether	5	N.D.	N.D.	
Pentabromodiphenyl ether	5	N.D.	N.D.	
Hexabromodiphenyl ether	5	N.D.	N.D.	
Heptabromodiphenyl ether	5	N.D.	N.D.	
Octabromodiphenyl ether	5	N.D.	N.D.	
Nonabromodiphenyl ether	5	N.D.	N.D.	
Decabromodiphenyl ether	5	N.D.	N.D.	
Total content	/	N.D.	N.D.	
Conclusion	/	**Pass**	**Pass**	/

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

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

Test Report

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

Unit: mg/kg

Test item / Limit / Seq. No.	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
8	N.D.	N.D.	N.D.	N.D.	Pass
9	N.D.	N.D.	N.D.	N.D.	Pass
11	N.D.	N.D.	N.D.	N.D.	Pass
12	N.D.	N.D.	N.D.	N.D.	Pass
13	N.D.	N.D.	N.D.	N.D.	Pass
15	N.D.	N.D.	N.D.	N.D.	Pass
16	N.D.	N.D.	N.D.	N.D.	Pass
18	N.D.	N.D.	N.D.	N.D.	Pass
20	N.D.	N.D.	N.D.	N.D.	Pass
22	N.D.	N.D.	N.D.	N.D.	Pass
23	N.D.	N.D.	N.D.	N.D.	Pass
24	N.D.	N.D.	N.D.	N.D.	Pass
25	N.D.	N.D.	N.D.	N.D.	Pass
28	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
33	N.D.	N.D.	N.D.	N.D.	Pass
34	N.D.	N.D.	N.D.	N.D.	Pass
36	N.D.	N.D.	N.D.	N.D.	Pass
37	N.D.	N.D.	N.D.	N.D.	Pass

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

Test Report

Test item / Limit / Seq. No.	DIBP	DBP	BBP	DEHP	Conclusion
	1000	1000	1000	1000	
39	N.D.	N.D.	N.D.	N.D.	Pass
42	N.D.	N.D.	N.D.	N.D.	Pass
43	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
52	N.D.	N.D.	N.D.	N.D.	Pass
53	N.D.	N.D.	N.D.	N.D.	Pass
54	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

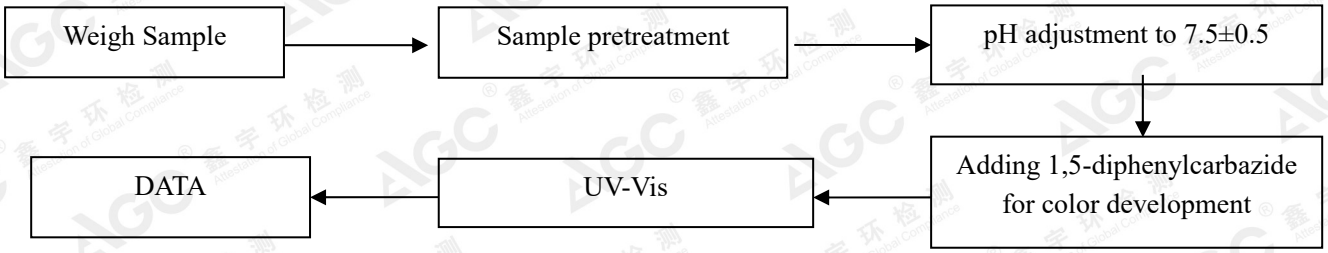
Note: 1. MDL＝Method Detection Limit
2. N.D.=Not Detected(less than method detection limit)

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

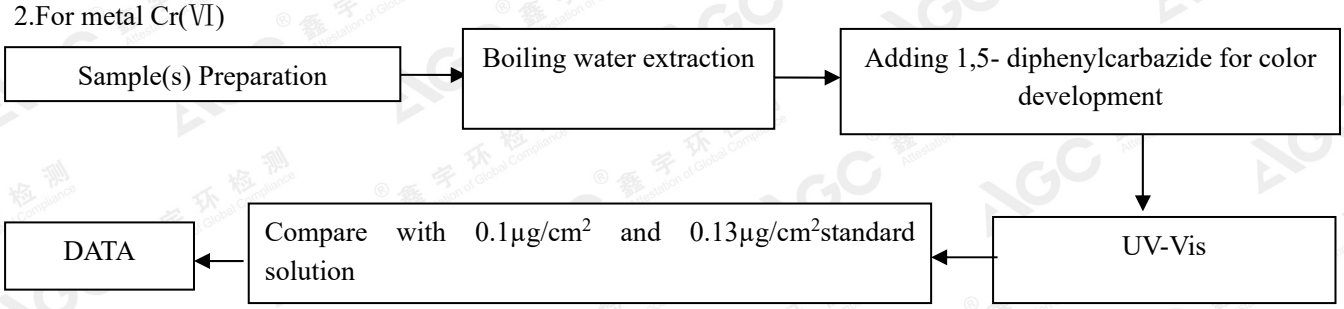
Test Report

Test Flow Chart

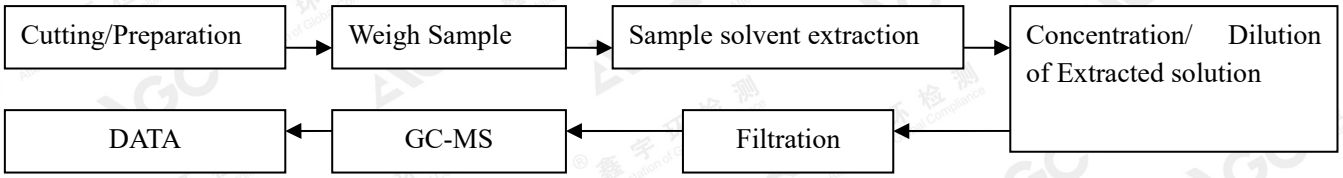
1.For non-metal Cr(Ⅵ)



2.For metal Cr(Ⅵ)



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



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

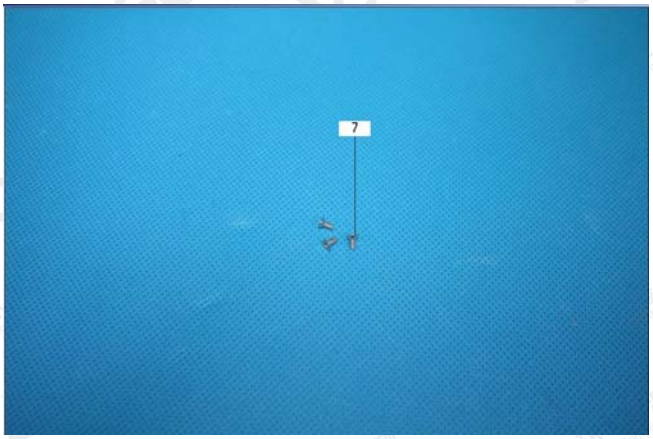
Test Report

The photo of the sample

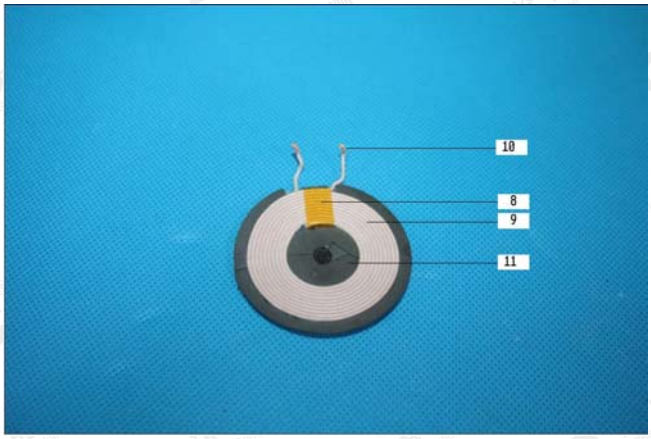
1

2

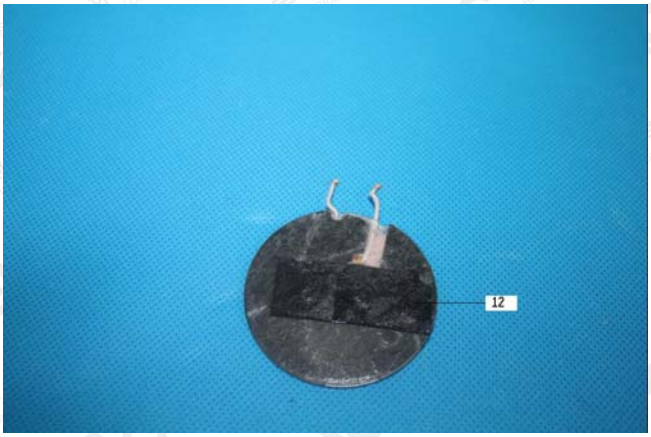
3



4



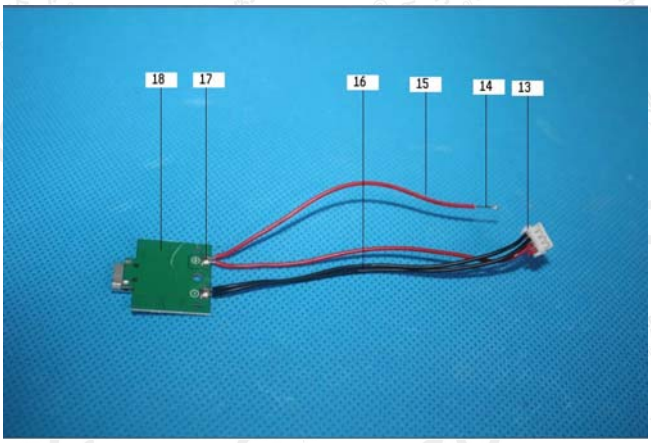
5



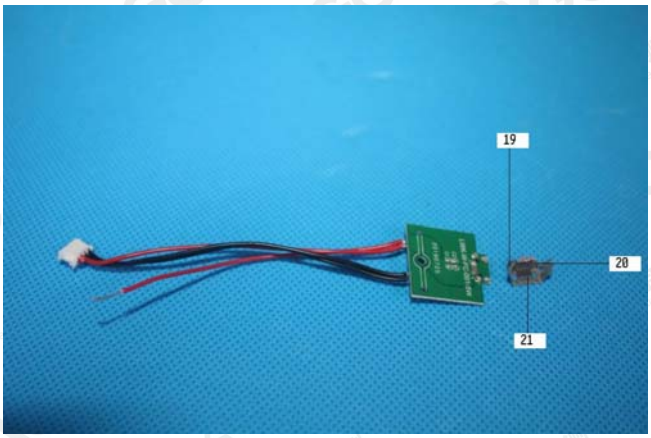
6

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

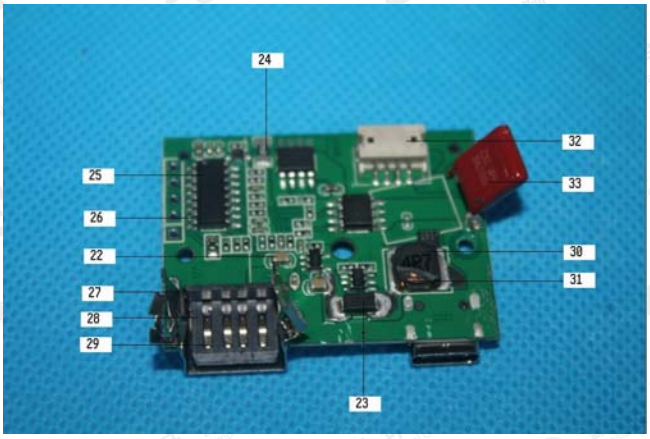
Test Report



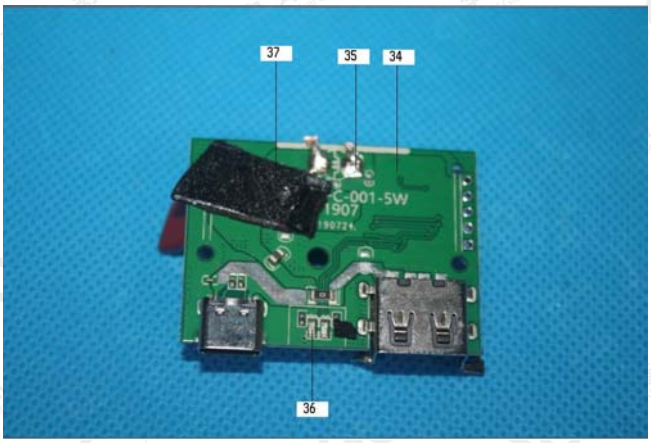
7



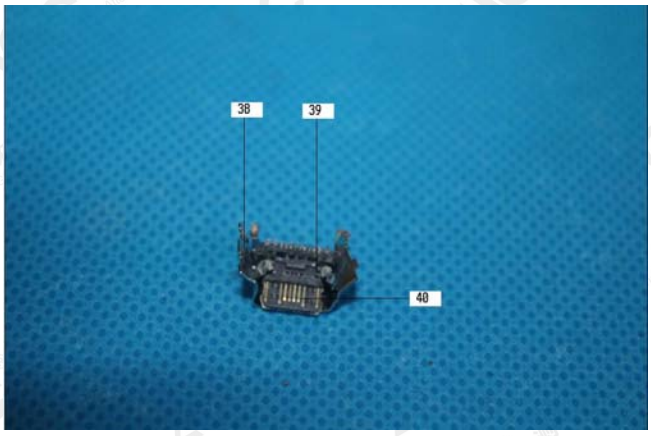
8



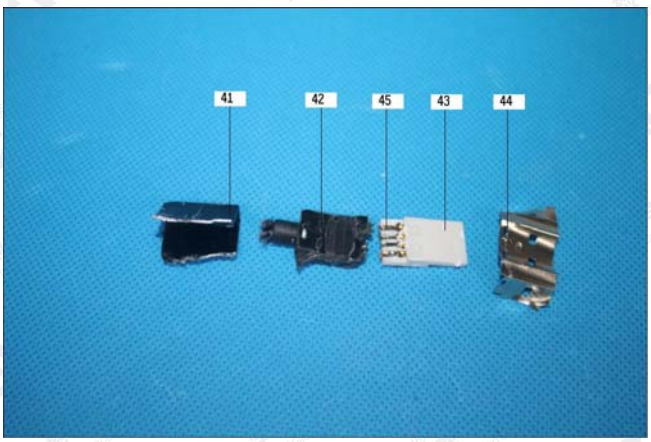
9



10

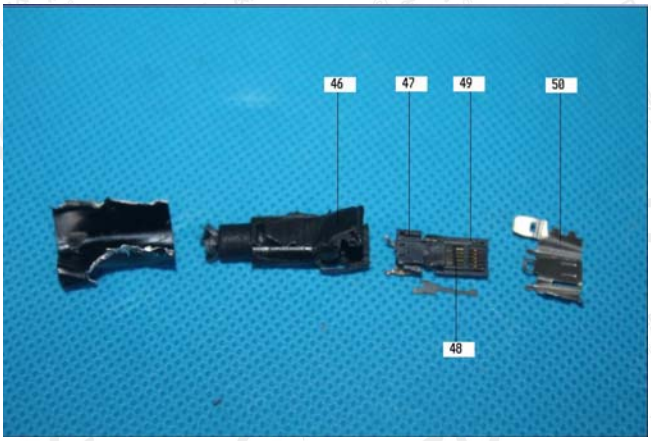


11



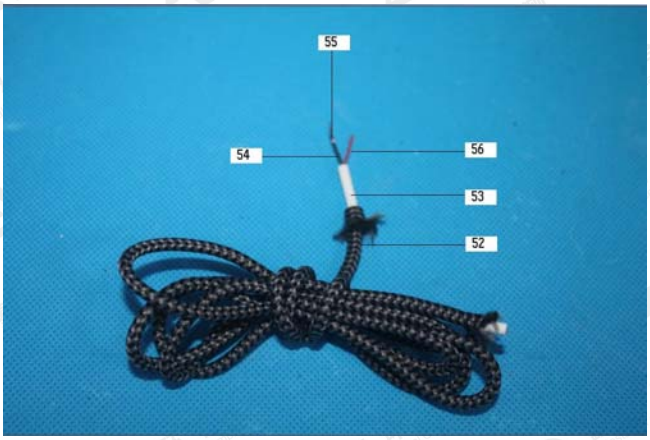
12

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



13

14



15

16

17

AGC-04094-19-09-06-002

AGC authenticate the photo only on original report

*** End of Report ***

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