

# Test Report

**Report No.:** AGC04094190609-001

**Date:** Jun.28, 2019

**Page** 1 of 12

**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:** 5W wireless charging gravity phone holder

**Model No.:** P302.61

**Sample Received Date:** Jun.21, 2019

**Testing Period:** Jun.21, 2019 to Jun.28, 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



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

# Test Report

**Report No.: AGC04094190609-001**

Date: Jun.28, 2019

Page 2 of 12

**Test Requested:**

1. As specified by client, to determine the Pb, Cd, Hg, Cr<sup>6+</sup>, 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.
- 2.As specified by client, to determine the DBP, BBP, DEHP, DIBP content in the submitted sample in accordance with Directive 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863.

**Conclusion**

**Pass**

**Pass**

**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	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017 Ed 1.1	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr <sup>6+</sup> )	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	/
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



# Test Report

**Report No.: AGC04094190609-001**

Date: Jun.28, 2019

Page 3 of 12

**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	Silver film(outer shell bracket)	BL	BL	BL	BL	BL
2	Milky plastic lamp post(outer shell bracket)	BL	BL	BL	BL	BL
3	Black plastic outer shell(outer shell bracket)	BL	BL	BL	BL	BL
4	Black rubber pad(outer shell bracket)	BL	BL	BL	BL	BL
5	Black rubber pad(outer shell bracket)	BL	BL	BL	BL	BL
6	Silver screw(outer shell bracket)	BL	BL	BL	BL	-
7	Metal spring(outer shell bracket)	BL	BL	BL	X*	-
8	Gray ceramic sheet(induction coil)	BL	BL	BL	BL	BL
9	Coil wire jacket(induction coil)	BL	BL	BL	BL	BL
10	Wire core(induction coil)	BL	BL	BL	BL	-
11	Brown tape(induction coil)	BL	BL	BL	BL	BL
12	Double faced adhesive tape(induction coil)	BL	BL	BL	BL	BL
13	Tin solder(circuit board)	BL	BL	BL	BL	-
14	Metallized film capacitor(circuit board)	BL	BL	BL	BL	BL
15	IC body(circuit board)	BL	BL	BL	BL	BL
16	Tin plating(circuit board)	BL	BL	BL	BL	-
17	Chip resistor(circuit board)	BL	BL	BL	BL	BL
18	Chip capacitor(circuit board)	BL	BL	BL	BL	BL
19	Chip diode(circuit board)	BL	BL	BL	X*	BL
20	Micro metal joint(Micro joint)(circuit board)	BL	BL	BL	BL	-
21	Black plastic joint(Micro joint)(circuit board)	BL	BL	BL	BL	BL
22	Contact pin(Micro joint)(circuit board)	BL	BL	BL	BL	-
23	Chip LED(circuit board)	BL	BL	BL	BL	BL
24	Tin solder(circuit board)	BL	BL	BL	BL	-

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

# Test Report

**Report No.: AGC04094190609-001**

Date: Jun.28, 2019

Page 4 of 12

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
25	Black plastic stents(circuit board)	BL	BL	BL	BL	BL
26	Black plastic stents(knob bracket)	BL	BL	BL	BL	BL
27	Metal spring(knob bracket)	BL	BL	BL	BL	-
28	Black rubber pad(knob bracket)	BL	BL	BL	X*	BL
29	Silver screw(knob bracket)	BL	BL	BL	BL	-
USB wire						
30	Black handle(USB plug)	BL	BL	BL	BL	BL
31	Black inner glue(USB plug)	BL	BL	BL	BL	BL
32	Tin solder(USB plug)	BL	BL	BL	BL	-
33	White plastic plug(USB plug)	BL	BL	BL	BL	BL
34	Contact pin(USB plug)	BL	BL	BL	BL	-
35	USB metal plug(USB plug)	BL	BL	BL	BL	-
36	Tin solder(Micro plug)	BL	BL	BL	BL	-
37	Grey plastic(Micro plug)	BL	BL	BL	BL	X*
38	Contact pin(Micro plug)	BL	BL	BL	BL	-
39	Black plastic plug(Micro plug)	BL	BL	BL	BL	BL
40	Metal thimble(Micro plug)	BL	BL	BL	X*	-
41	Micro metal plug(Micro plug)	BL	BL	BL	X*	-
42	Black outer wire jacket(wire rod)	BL	BL	BL	BL	BL
43	Black wire jacket(wire rod)	BL	BL	BL	X*	BL
44	Wire core(wire rod)	BL	BL	BL	BL	-
45	Red wire jacket(wire rod)	BL	BL	BL	BL	BL

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



# Test Report

Report No.: AGC04094190609-001

Date: Jun.28, 2019

Page 5 of 12

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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

# Test Report

**Report No.: AGC04094190609-001**

Date: Jun.28, 2019

Page 6 of 12

**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.

**B、 The Test Results of Chemical Method:**
**1) The Test Results of non-metal Cr<sup>6+</sup>**

Test Item(s)	Unit	Result(s)			Limit
		19	28	43	
Hexavalent Chromium(Cr <sup>6+</sup> )	mg/kg	N.D.	N.D.	N.D.	1000

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.





# Test Report

**Report No.: AGC04094190609-001**

Date: Jun.28, 2019

Page 7 of 12

## 2)The Test Results of metal Cr<sup>6+</sup>

Test Item(s)	MDL	Result(s)			Limit
		7	40	41	
Hexavalent Chromium (Cr <sup>6+</sup> )	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/cm <sup>2</sup> 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 <sup>2</sup> and ≤ the 0,13 µg/cm <sup>2</sup> 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 <sup>2</sup> 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.

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

# Test Report

**Report No.: AGC04094190609-001**

Date: Jun.28, 2019

Page 8 of 12

**3) The Test Results of PBBs & PBDEs**

Unit: mg/kg

Item(s)	MDL	Result(s)	Limit
		37	
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyl	5	N.D.	Total PBBs Content <1000
Dibromobiphenyl	5	N.D.	
Tribromobiphenyl	5	N.D.	
Tetrabromobiphenyl	5	N.D.	
Pentabromobiphenyl	5	N.D.	
Hexabromobiphenyl	5	N.D.	
Heptabromobiphenyl	5	N.D.	
Octabromobiphenyl	5	N.D.	
Nonabromodiphenyl	5	N.D.	
Decabromodiphenyl	5	N.D.	
Total content	/	N.D.	
Polybrominated Diphenylethers (PBDEs)			
Monobromodiphenyl ether	5	N.D.	Total PBDEs Content <1000
Dibromodiphenyl ether	5	N.D.	
Tribromodiphenyl ether	5	N.D.	
Tetrabromodiphenyl ether	5	N.D.	
Pentabromodiphenyl ether	5	N.D.	
Hexabromodiphenyl ether	5	N.D.	
Heptabromodiphenyl ether	5	N.D.	
Octabromodiphenyl ether	5	N.D.	
Nonabromodiphenyl ether	5	N.D.	
Decabromodiphenyl ether	5	N.D.	
Total content	/	N.D.	
Conclusion	/	Pass	/

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



# Test Report

**Report No.: AGC04094190609-001**
**Date: Jun.28, 2019**
**Page 9 of 12**
**2.Test result of DBP, BBP, DEHP, DIBP content**
**Test Method: IEC 62321-8:2017; Equipment: GC-MS**

Substance		MDL	Limit
DIBP	Di-iso-butyl phthalate	50 mg/kg	1000 mg/kg
DBP	Dibutyl phthalate	50 mg/kg	1000 mg/kg
BBP	Butylbenzyl phthalate	50 mg/kg	1000 mg/kg
DEHP	Di-(2-ethylhexyl) Phthalate	50 mg/kg	1000 mg/kg

Unit: mg/kg

Seq. No.	Test item	DIBP	DBP	BBP	DEHP	Conclusion
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
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
14		N.D.	N.D.	N.D.	N.D.	Pass
15		N.D.	N.D.	N.D.	N.D.	Pass
17		N.D.	N.D.	N.D.	N.D.	Pass
18		N.D.	N.D.	N.D.	N.D.	Pass
19		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
28		N.D.	N.D.	N.D.	N.D.	Pass
30		N.D.	N.D.	N.D.	N.D.	Pass

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.


**Attestation of Global Compliance Std. & Tech.**
**No.18 C**  
 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.: AGC04094190609-001

Date: Jun.28, 2019

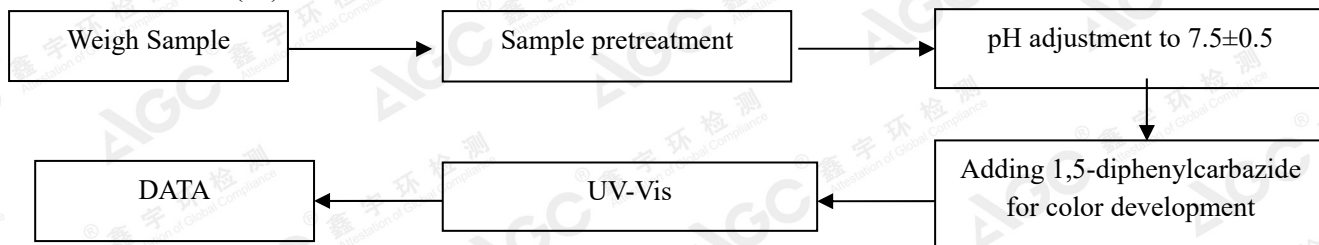
Page 10 of 12

Test item Seq. No.	DIBP	DBP	BBP	DEHP	Conclusion
31	N.D.	N.D.	N.D.	N.D.	Pass
33	N.D.	N.D.	N.D.	N.D.	Pass
37	N.D.	N.D.	N.D.	N.D.	Pass
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
45	N.D.	N.D.	N.D.	N.D.	Pass

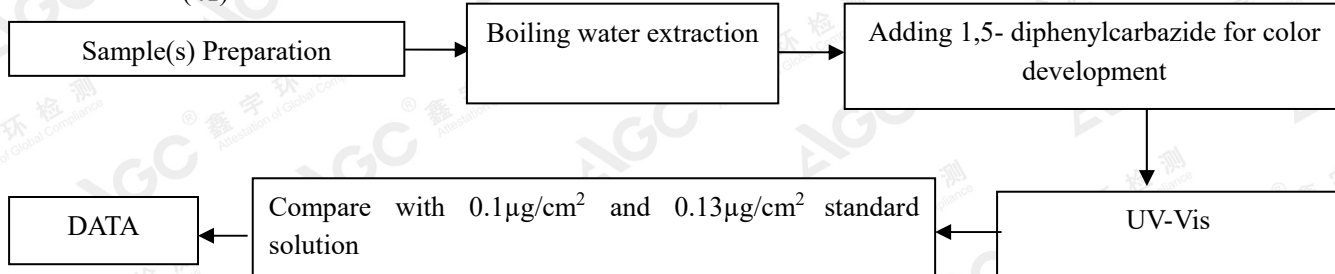
**Note:** 1. MDL=Method Detection Limit  
2. N.D.=Not Detected(less than method detection limit)

## Test Flow Chart

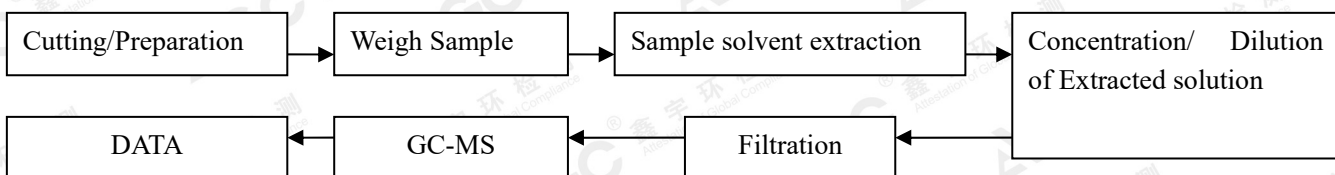
1.For non-metal Cr(VI)



2.For metal Cr(VI)



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



The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.

**AGC**

Attestation of Global Compliance Std. & Tech.

**No.18 C**

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.: AGC04094190609-001

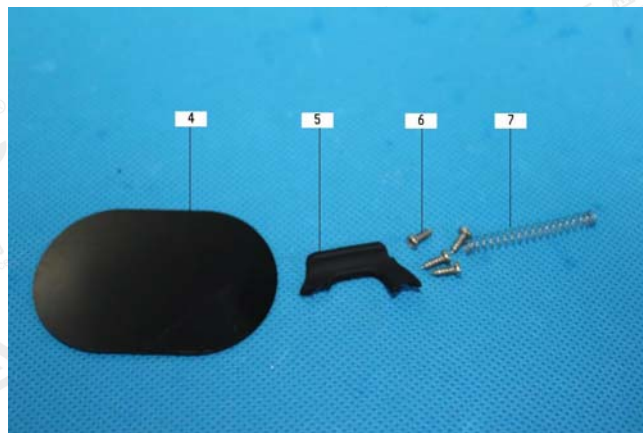
Date: Jun.28, 2019

Page 11 of 12

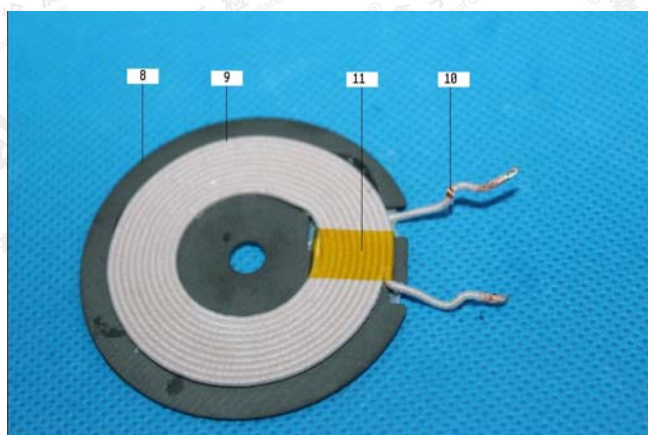
## The photo of the sample



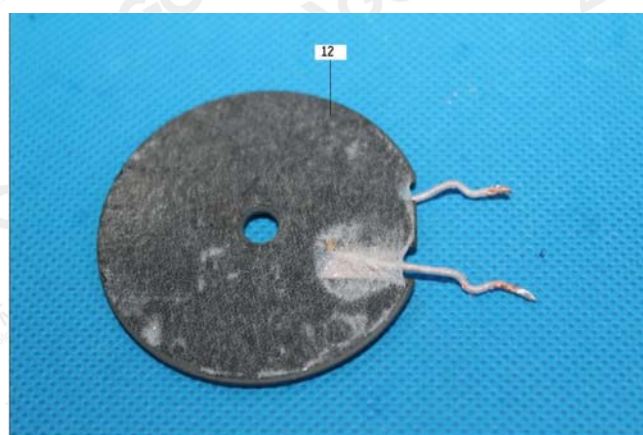
1



2



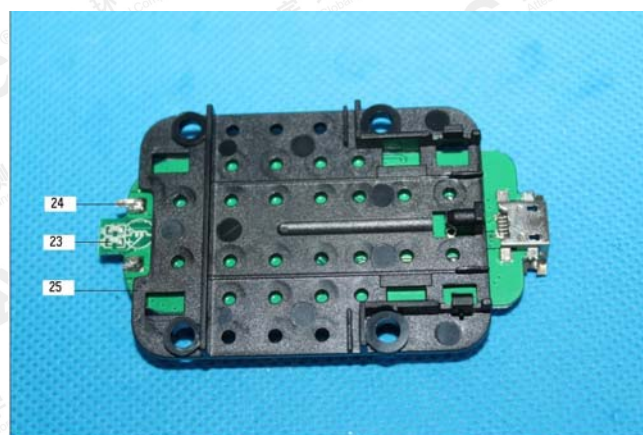
3



4



5



6

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.



# Test Report

Report No.: AGC04094190609-001

Date: Jun.28, 2019

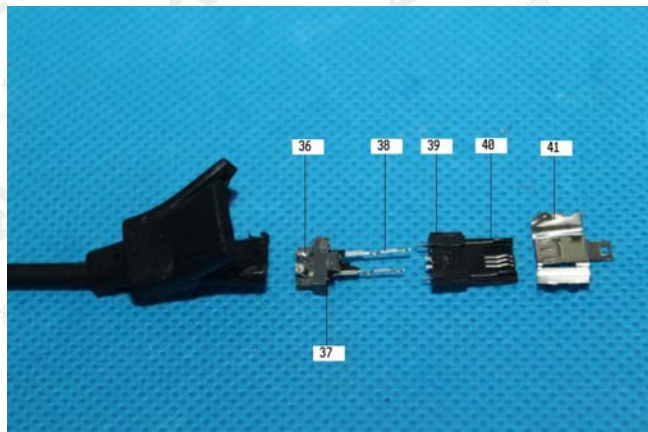
Page 12 of 12



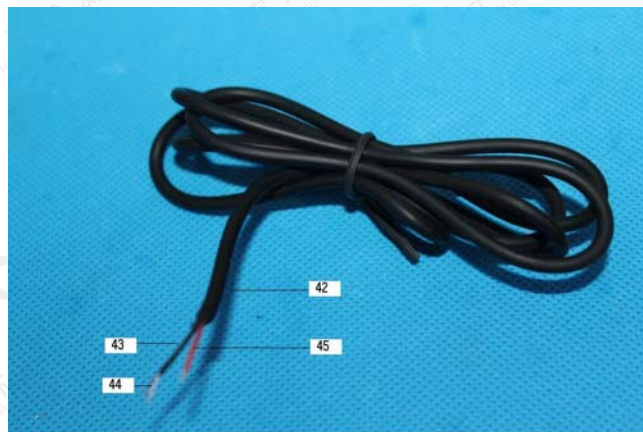
7



8



9



10



11



12

**AGC04094190609-001**

AGC authenticate the photo only on original report

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

The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of the report will be confirmed at <http://www.agc-cert.com>.