

Test Report

Report No.: A001R20170926001

Date: Oct.10, 2017

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Applicant: Xindao B.V.

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

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

Sample Name: Fabric speaker

Sample Model: P326.74

Sample Received Date: Sep.26,2017

Testing Period: Sep.26,2017 to Oct.10, 2017

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

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

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

Test Requested:

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.

Conclusion

Pass

Tested by: Luoxiao

Luoxiao

Test Engineer

Reviewed by: Leon

Suhongliang, Leon

Test Team Leader

Approved by: Lewis

Liulinwen, Lewis

Technical Director



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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	Gray linen(shell)	BL	BL	BL	X*	BL
2	White cloth(shell)	BL	BL	BL	BL	BL
3	Black plastic shell(shell)	BL	BL	BL	BL	X*
4	Black plastic shell(shell)	BL	BL	BL	BL	X*
5	Silver screw(shell)	BL	BL	BL	BL	-
6	Black plastic button(shell)	BL	BL	BL	BL	X*
7	Black foam(Horn)	BL	BL	BL	X*	BL
8	T iron(Horn)	BL	BL	BL	BL	-
9	Magnet(Horn)	BL	BL	BL	BL	BL
10	Solder(Horn)	BL	BL	BL	BL	-
11	White connector(Horn)	BL	BL	BL	BL	BL
12	Rivet(Horn)	BL	BL	BL	BL	-
13	Green enameled wire(Horn)	BL	BL	BL	BL	-
14	Red enameled wire(Horn)	BL	BL	BL	BL	-
15	Black wire sheath(Horn)	BL	BL	BL	BL	BL
16	Metal frame(Horn)	BL	BL	BL	BL	-
17	Elastic wave(Horn)	BL	BL	BL	BL	BL
18	Enameled wire(Horn)	BL	BL	BL	BL	-
19	Paper ring(Horn)	BL	BL	BL	BL	BL
20	Black rubber diaphragm(Horn)	BL	BL	BL	BL	BL
21	Ball(Horn)	BL	BL	BL	X*	BL
22	Black plastic seat(Headphone socket) (Circuit board)	BL	BL	BL	BL	BL
23	Sheet metal(Headphone socket) (Circuit board)	BL	BL	BL	BL	-
24	Solder(Circuit board)	BL	BL	BL	BL	-
25	PCB board(Circuit board)	BL	BL	BL	BL	X*

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
26	Patch LED(Circuit board)	BL	BL	BL	BL	BL
27	Patch resistor(Circuit board)	BL	BL	BL	BL	BL
28	Patch capacitance(Circuit board)	BL	BL	BL	BL	BL
29	IC ontology(IC) (Circuit board)	BL	BL	BL	BL	X*
30	Pin(IC) (Circuit board)	BL	BL	BL	BL	-
31	Crystals ontology(Crystal oscillator) (Circuit board)	BL	BL	BL	BL	BL
32	Black plastic seat(Crystal oscillator) (Circuit board)	BL	BL	BL	BL	X*
33	Patch diode(Circuit board)	BL	BL	BL	BL	X*
34	Patch triode(Circuit board)	BL	BL	BL	BL	BL
35	Metal cover(Memory card holder) (Circuit board)	BL	BL	BL	X*	-
36	Black plastic seat(Memory card holder) (Circuit board)	BL	BL	BL	BL	BL
37	Spring(Memory card holder) (Circuit board)	BL	BL	BL	BL	-
38	Pin(Memory card holder) (Circuit board)	BL	BL	BL	BL	-
39	Beige plastic button(Touch switch) (Circuit board)	BL	BL	BL	X*	BL
40	Sheet metal(Touch switch) (Circuit board)	BL	BL	BL	BL	-
41	Shrapnel(Touch switch) (Circuit board)	BL	BL	BL	X*	-
42	Black plastic seat(Touch switch) (Circuit board)	BL	BL	BL	BL	BL
43	Pin(Touch switch) (Circuit board)	BL	BL	BL	BL	-
44	Metal shell(Micro joint) (Circuit board)	BL	BL	BL	X*	-
45	Black plastic joint(Micro joint) (Circuit board)	BL	BL	BL	X*	BL
46	Pin(Micro joint) (Circuit board)	BL	BL	BL	BL	-
47	Black plastic(Toggle switch) (Circuit board)	BL	BL	BL	X*	BL
48	Metal shell(Toggle switch) (Circuit board)	BL	BL	BL	BL	-
49	Epoxy resin board(Toggle switch) (Circuit board)	BL	BL	BL	BL	BL
50	Metal card(Toggle switch) (Circuit board)	BL	BL	BL	BL	-
51	Aluminum shell(Microphone) (Circuit board)	BL	BL	BL	BL	-

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
52	Black dust screen(Microphone) (Circuit board)	BL	BL	BL	BL	BL
53	White plastic ring(Microphone) (Circuit board)	BL	BL	BL	BL	BL
54	Diaphragm(Microphone) (Circuit board)	BL	BL	BL	BL	BL
55	PCB board(Microphone) (Circuit board)	BL	BL	BL	BL	X*
56	Blue casing(Battery)	BL	BL	BL	BL	BL
57	Batteries(Battery)	BL	BL	BL	X*	BL
58	Metal connector(Battery)	BL	BL	BL	BL	-
59	Solder(Battery)	BL	BL	BL	BL	-
60	PCB board(Battery)	BL	BL	BL	BL	X*
61	Black wire sheath(Battery)	BL	BL	BL	BL	BL
62	Black foam(Battery)	BL	BL	BL	BL	BL
63	Wire core(Battery)	BL	BL	BL	BL	-
64	Red wire sheath(Battery)	BL	BL	BL	BL	BL
65	Patch IC(Battery)	BL	BL	BL	BL	BL
Usb cable						
66	Black handle(USB plug)	BL	BL	BL	BL	BL
67	Solder(USB plug)	BL	BL	BL	BL	-
68	White plastic plug(USB plug)	BL	BL	BL	X*	BL
69	Pin(USB plug)	BL	BL	BL	BL	-
70	Metal shell(USB plug)	BL	BL	BL	BL	-
71	Solder(Micro plug)	BL	BL	BL	BL	-
72	Black plastic plug(Micro plug)	BL	BL	BL	BL	BL
73	Metal thimbles(Micro plug)	BL	BL	BL	X*	-
74	pin(Micro plug)	BL	BL	BL	BL	-
75	Metal shell(Micro plug)	BL	BL	BL	BL	-
76	Black exterior wire sheath(Wire rod)	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
77	Black wire sheath(Wire rod)	BL	BL	BL	BL	BL
78	Red wire sheath(Wire rod)	BL	BL	BL	BL	BL
79	Wire core(Wire rod)	BL	BL	BL	BL	-
Audio cable						
80	Black handle(Audio plug)	BL	BL	BL	BL	BL
81	Solder(Audio plug)	BL	BL	BL	BL	-
82	Metal ring(Audio plug)	BL	BL	BL	BL	-
83	Black plastic(Audio plug)	BL	BL	BL	BL	BL
84	Metal head(Audio plug)	BL	X*	BL	BL	-
85	Black wire sheath(Wire rod)	BL	BL	BL	BL	BL
86	Blue enameled wire(Wire rod)	BL	BL	BL	BL	-
87	Brown enameled wire(Wire rod)	BL	BL	BL	BL	-
88	Red enameled wire(Wire rod)	BL	BL	BL	BL	-

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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 Pb

Test Item(s)	Unit	Result(s)
		84*
Lead(Pb)	mg/kg	20527

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

MDL = Method Detection Limit

* 1= As claimed by the material declaration submitted by the client, the materials of the sample No.84 is copper alloy, according to the RoHS 2011/65 / EU, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

2) The Test Results of non-metal Cr⁶⁺

Test Item(s)	Unit	Result(s)					Limit
		1	7	17	21	39	
Hexavalent Chromium(Cr ⁶⁺)	mg-kg	N.D.	N.D.	N.D.	N.D.	N.D.	1000

Test Item(s)	Unit	Result(s)				Limit
		45	47	57	68	
Hexavalent Chromium(Cr ⁶⁺)	mg-kg	N.D.	N.D.	N.D.	N.D.	1000

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

MDL = Method Detection Limit

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3)The Test Results of metal Cr⁶⁺

Test Item(s)	MDL	Result(s)				Limit
		35	41	44	73	
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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4) The Test Results of PBBs & PBDEs

Unit:mg-kg

Item(s)	MDL	Result(s)					Limit
		3	4	6	25	29	
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	26	38	41	N.D.	N.D.	
Total content	-	26	38	41	N.D.	N.D.	
Conclusion	-	Pass	Pass	Pass	Pass	Pass	-

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Unit:mg/kg

Item(s)	MDL	Result(s)				Limit
		32	33	55	60	
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	-

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

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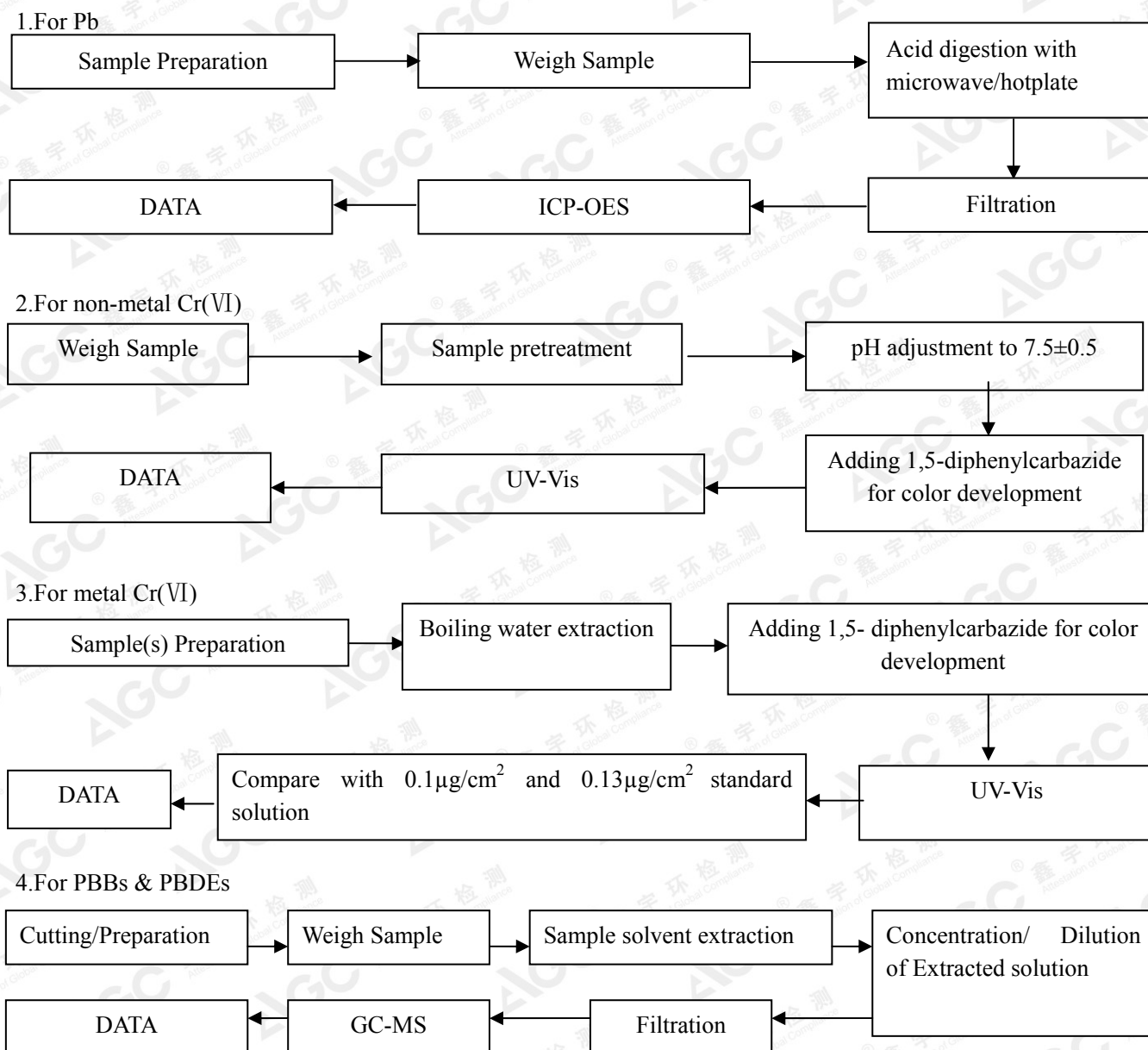
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Test Flow Chart



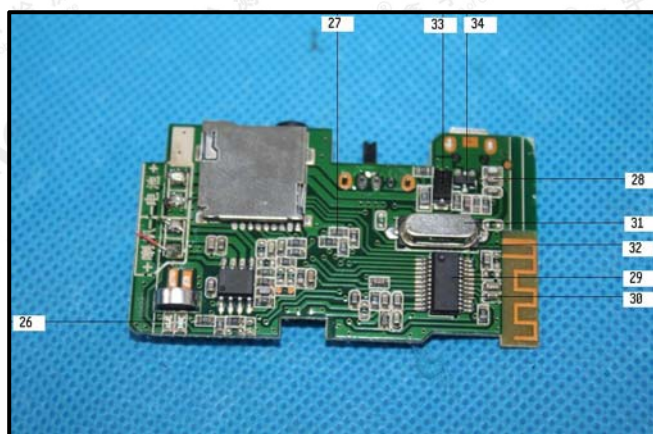
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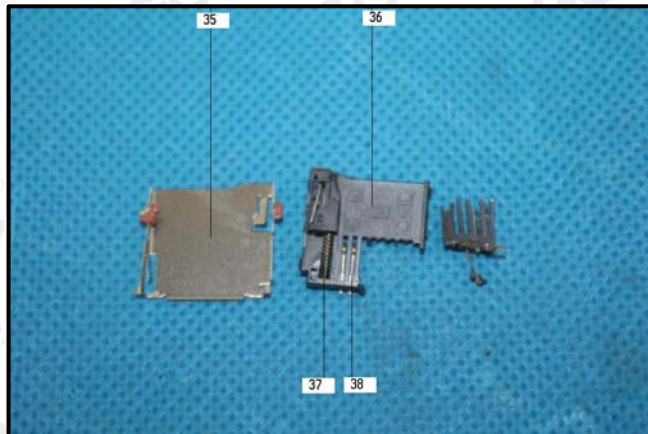
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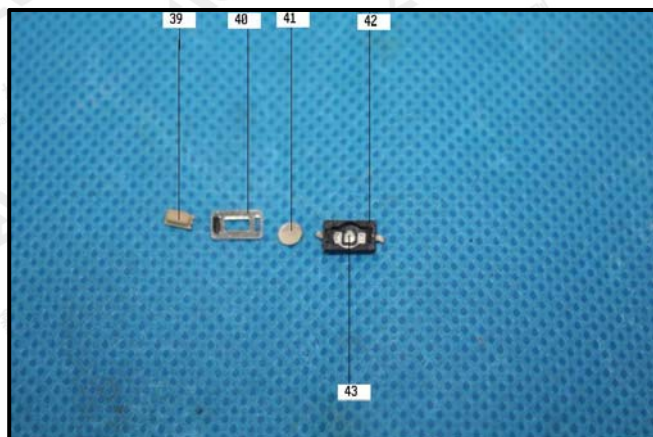
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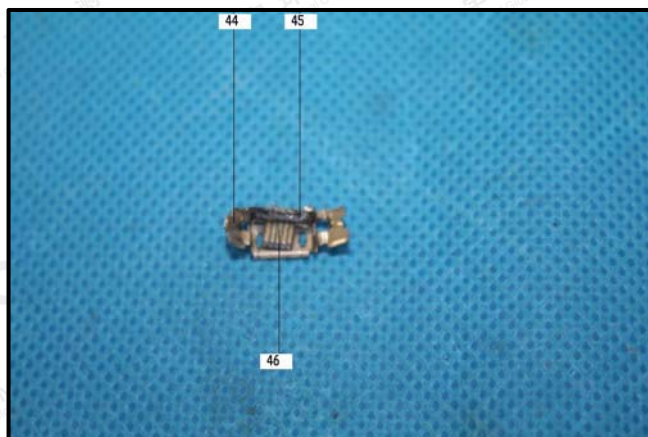
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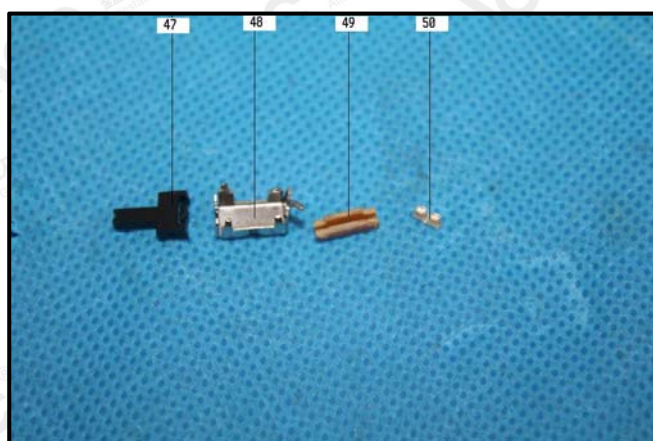
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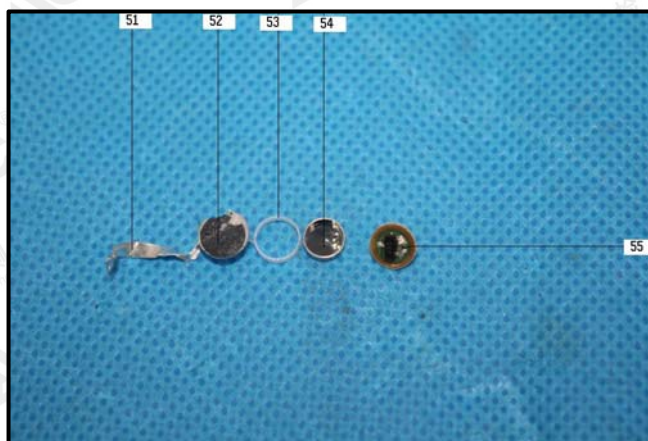
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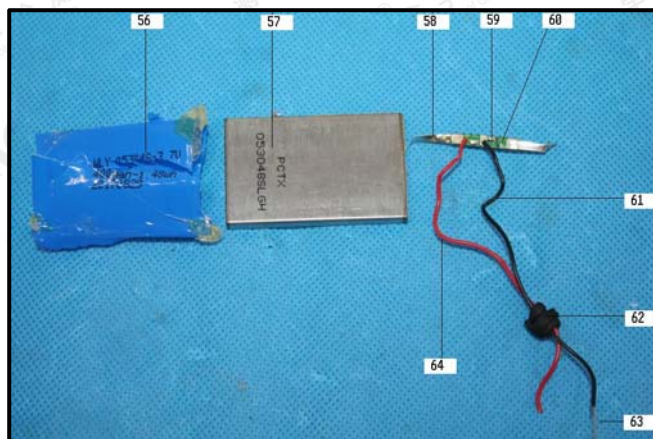
Tel: +86-755 8358 3833 Fax: +86-755 2531 6612 E-mail: agc01@agc-cert.com 400 089 2118
Add: Building 2, No.171, Meihua Road, Shangmeilin, Futian District, Shenzhen, Guangdong China

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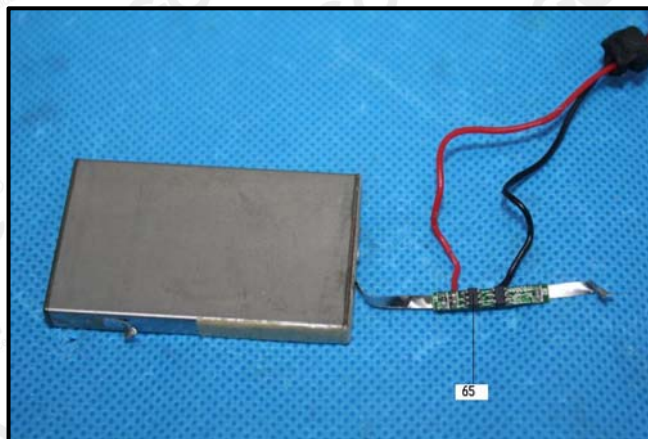
Report No.: A001R20170926001

Date: Oct.10, 2017

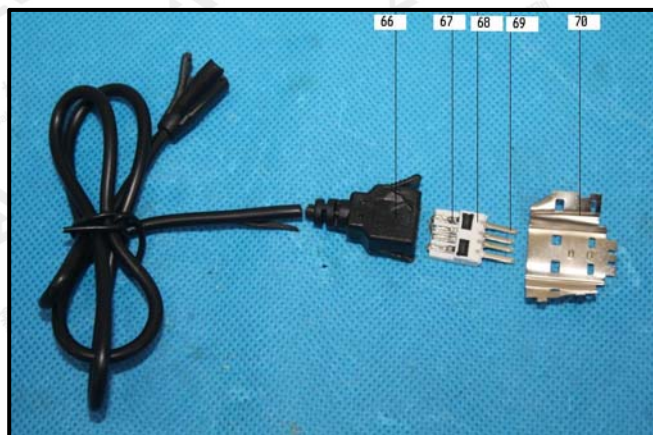
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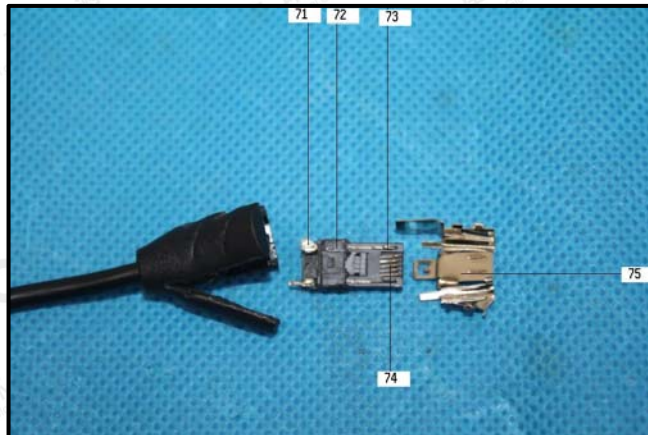
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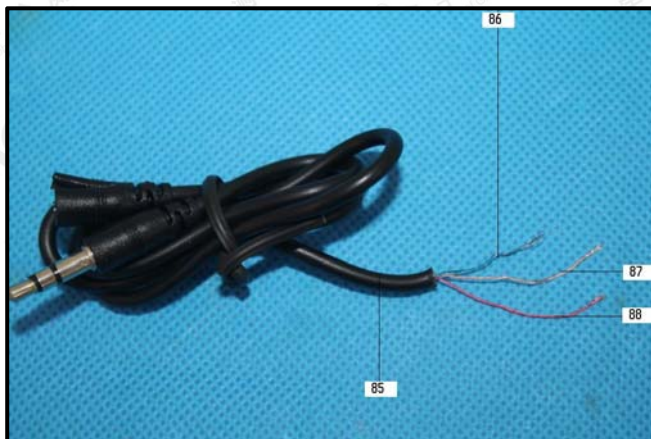
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*** End of Report ***

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