

Test Report

Report No.: AGC05794180902-001

Date: Oct.12, 2018

Page 1 of 17

Applicant:

Address:

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

Sample Name: Logo light up headphone

Sample Model: 24390

Test site: Building 2, No.171, Meihua Road, Shangmeilin, Futian district, Shenzhen, Guangdong, China

Sample Received Date: Sep.17, 2018

Testing Period: Sep.17, 2018 to Oct.12, 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).

Approved by:

Liulinwen, Lewis

Technical Director



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Test Report

Report No.: AGC05794180902-001

Date: Oct.12, 2018

Page 2 of 17

Test Requested:

Conclusion

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

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 62321-4:2017 Ed 1.1	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 Report

Report No.: AGC05794180902-001
Date: Oct.12, 2018

Page 3 of 17
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
Headphone						
1	Black plastic frame(Frame)	BL	BL	BL	BL	BL
2	Black coating(Frame)	BL	BL	BL	BL	BL
3	White plastic ear(Frame)	BL	BL	BL	BL	BL
4	Black leather(Earphone cover)	BL	BL	BL	BL	BL
5	Blue mesh cloth(Earphone cover)	BL	BL	BL	BL	BL
6	White foam ring(Earphone cover)	BL	BL	BL	BL	BL
7	Black plastic ring(Earphone cover)	BL	BL	BL	BL	BL
8	Black wire jacket(Connecting line)	BL	BL	BL	BL	BL
9	Red enameled wire(Connecting line)	BL	BL	BL	BL	-
10	Brown enameled wire(Connecting line)	BL	BL	BL	BL	-
11	Blue enameled wire(Connecting line)	BL	BL	BL	BL	-
12	Green enameled wire(Connecting line)	BL	BL	BL	BL	-
13	Silver white screw	X*	BL	BL	X*	-
14	Silvery metal axis	BL	BL	BL	BL	-
15	Black rubber head frame	BL	BL	BL	BL	BL
16	Black plastic cover	BL	BL	BL	BL	BL
17	Black plastic frame(Horn)	BL	BL	BL	BL	X*
18	Magnetic shielding cover(Horn)	BL	BL	BL	BL	-
19	Tin solder(Horn)	BL	BL	BL	BL	-
20	PCB board(Horn)	BL	BL	BL	BL	X*
21	Black wire jacket(Horn)	BL	BL	BL	BL	BL
22	Wire core(Horn)	BL	BL	BL	BL	-
23	Red wire jacket(Horn)	BL	BL	BL	X*	BL

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Test Report

Report No.: AGC05794180902-001
Date: Oct.12, 2018

Page 4 of 17

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
24	Silver magnet(Horn)	BL	BL	BL	BL	-
25	Vibrating diaphragm(Horn)	BL	BL	BL	BL	BL
26	Enameled wire(Horn)	BL	BL	BL	BL	-
27	IC body(IC)(Circuit board)	BL	BL	BL	BL	BL
28	Pin(IC) (Circuit board)	X*	BL	BL	BL	-
29	Black audio holder(Circuit board)	BL	BL	BL	BL	BL
30	White PCB board(Circuit board)	BL	BL	BL	BL	X*
31	Tin solder(Circuit board)	BL	OL*	BL	BL	-
32	Black plastic button(Touch switch) (Circuit board)	BL	BL	BL	BL	BL
33	Metal shrapnel(Touch switch) (Circuit board)	BL	BL	BL	X*	-
34	Silver metal sheet(Touch switch) (Circuit board)	BL	BL	BL	BL	-
35	White plastic seat(Touch switch) (Circuit board)	BL	BL	BL	BL	BL
36	Silver metal cover(Memory card holder) (Circuit board)	BL	BL	BL	X*	-
37	Contact pin(Memory card holder) (Circuit board)	BL	BL	BL	BL	-
38	Spring(Memory card holder) (Circuit board)	BL	BL	BL	X*	-
39	Black plastic seat(Memory card holder) (Circuit board)	BL	BL	BL	BL	BL
40	Black glue cap(Microphone) (Circuit board)	BL	BL	BL	BL	BL
41	Tin solder(Microphone) (Circuit board)	BL	BL	BL	BL	-
42	PCB board(Microphone) (Circuit board)	BL	BL	BL	BL	X*
43	Copper shell(Microphone) (Circuit board)	X*	BL	BL	BL	-
44	Red wire jacket(Microphone) (Circuit board)	BL	BL	BL	BL	BL
45	Wire core(Microphone) (Circuit board)	BL	BL	BL	BL	-
46	Black wire jacket(Microphone) (Circuit board)	BL	BL	BL	BL	BL
47	Black toggle plastic(Toggle switch) (Circuit board)	BL	BL	BL	BL	BL
48	Silver metal shell(Toggle switch) (Circuit board)	BL	BL	BL	BL	-
49	Epoxy resin board(Toggle switch) (Circuit board)	BL	BL	BL	BL	BL

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Test Report

Report No.: AGC05794180902-001
Date: Oct.12, 2018

Page 5 of 17

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
50	Metal card(Toggle switch) (Circuit board)	BL	BL	BL	BL	-
51	Micro metal connector(Micro connector) (Circuit board)	BL	BL	BL	BL	-
52	Black plastic contact(Micro connector) (Circuit board)	BL	BL	BL	BL	BL
53	Contact pin(Micro connector) (Circuit board)	X*	BL	BL	BL	-
54	Chip LED(Light board)	BL	BL	BL	BL	BL
55	Tin solder(Light board)	BL	BL	BL	BL	-
56	PCB board(Light board)	BL	BL	BL	BL	X*
57	Red wire jacket(Light board)	BL	BL	BL	BL	BL
58	Wire core(Light board)	BL	BL	BL	BL	-
59	Black wire jacket(Light board)	BL	BL	BL	X*	BL
60	Black plastic piece(Battery)	BL	BL	BL	BL	BL
61	Black double-sided adhesive(Battery)	BL	BL	BL	BL	BL
62	Brown tape(Battery)	BL	BL	BL	X*	BL
63	Electric core(Battery)	BL	BL	BL	BL	BL
64	Tin solder(Battery)	BL	BL	BL	BL	-
65	PCB board(Battery)	BL	BL	BL	BL	X*
66	Red wire jacket(Battery)	BL	BL	BL	BL	BL
67	Wire core(Battery)	BL	BL	BL	BL	-
68	Black wire jacket(Battery)	BL	BL	BL	BL	BL
69	Chip IC(Battery)	BL	BL	BL	BL	X*
70	Pin(Battery)	BL	BL	BL	BL	-
USB line						
71	Black handle(USB plug)	BL	BL	BL	BL	BL
72	Tin solder(USB plug)	BL	BL	BL	BL	-
73	White plastic plug(USB plug)	BL	BL	BL	BL	BL
74	Contact pin(USB plug)	BL	BL	BL	BL	-

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Test Report

Report No.: AGC05794180902-001
Date: Oct.12, 2018

Page 6 of 17

Seq. No.	Tested Part(s)	Results(mg/kg)				
		Cd	Pb	Hg	Cr	Br
75	USB metal plug(USB plug)	BL	BL	BL	BL	-
76	Tin solder(Micro plug)	BL	BL	BL	BL	-
77	Black plastic plug(Micro plug)	BL	BL	BL	BL	BL
78	Metal thimble(Micro plug)	X*	BL	BL	X*	-
79	Contact pin(Micro plug)	BL	BL	BL	BL	-
80	Micro metal plug(Micro plug)	BL	BL	BL	X*	-
81	Black outer wire jacket(Wire rod)	BL	BL	BL	BL	BL
82	Red wire jacket(Wire rod)	BL	BL	BL	BL	BL
83	Wire core(Wire rod)	X*	BL	BL	BL	-
84	Black wire jacket(Wire rod)	BL	BL	BL	BL	BL
Audio cable						
85	Black handle(Audio plug)	BL	BL	BL	BL	BL
86	Tin solder(Audio plug)	BL	BL	BL	BL	-
87	Metal ring(Audio plug)	BL	BL	BL	BL	-
88	Black plastic(Audio plug)	BL	BL	BL	BL	BL
89	Metal head(Audio plug)	BL	OL*	BL	BL	-
90	Black outer wire jacket(Wire rod)	BL	BL	BL	BL	BL
91	White wire jacket(Wire rod)	BL	BL	BL	BL	BL
92	Red wire jacket(Wire rod)	BL	BL	BL	BL	BL
93	Wire core(Wire rod)	BL	BL	BL	BL	-
94	Green wire jacket(Wire rod)	BL	BL	BL	BL	BL

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Page 7 of 17

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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Test Report

Report No.: AGC05794180902-001

Date: Oct.12, 2018

Page 8 of 17

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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Test Report

Report No.: AGC05794180902-001
Date: Oct.12, 2018

Page 9 of 17

B、The Test Results of Chemical Method:
1) The Test Results of Pb & Cd

Test Item(s)	Unit	Result(s)	
		31	89
Lead(Pb)	mg/kg	637	29286*

Test Item(s)	Unit	Result(s)					
		13	28	43	53	78	83
Cadmium(Cd)	mg/kg	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

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.89 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
		23	59	62	
Hexavalent Chromium(Cr ⁶⁺)	mg/kg	N.D.	N.D.	N.D.	1000

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

MDL = Method Detection Limit

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Report No.: AGC05794180902-001
Date: Oct.12, 2018

Page 10 of 17

3)The Test Results of metal Cr⁶⁺

Test Item(s)	MDL	Result(s)						Limit
		13	33	36	38	78	80	
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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Report No.: AGC05794180902-001
Date: Oct.12, 2018

Page 11 of 17

4) The Test Results of PBBs & PBDEs

Unit: mg/kg

Item(s)	MDL	Result(s)				Limit
		17	20	30	42	
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	363	N.D.	N.D.	N.D.	
Total content	/	363	N.D.	N.D.	N.D.	
Conclusion	/	Pass	Pass	Pass	Pass	/

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Date: Oct.12, 2018

Page 12 of 17

Unit: mg/kg

Item(s)	MDL	Result(s)			Limit
		56	65	69	
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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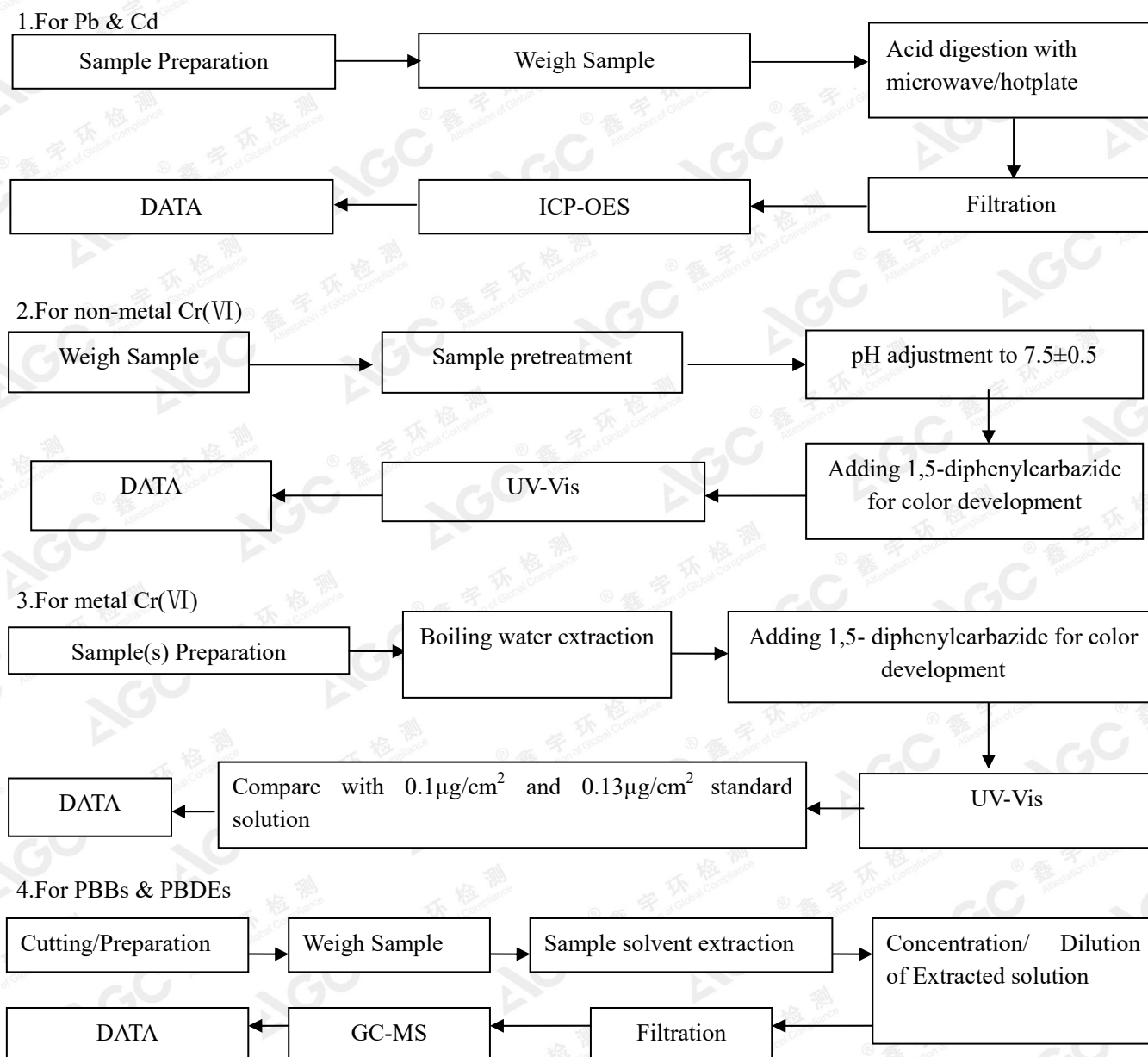
Test Report

Report No.: AGC05794180902-001

Date: Oct.12, 2018

Page 13 of 17

Test Flow Chart



Test result on specimen No.64 was resubmitted sample on Oct.11, 2018.

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Test Report

Report No.: AGC05794180902-001

Date: Oct.12, 2018

Page 14 of 17

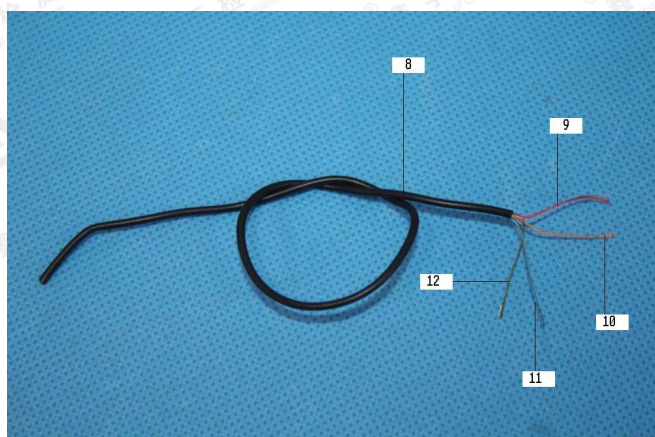
The photo of the sample



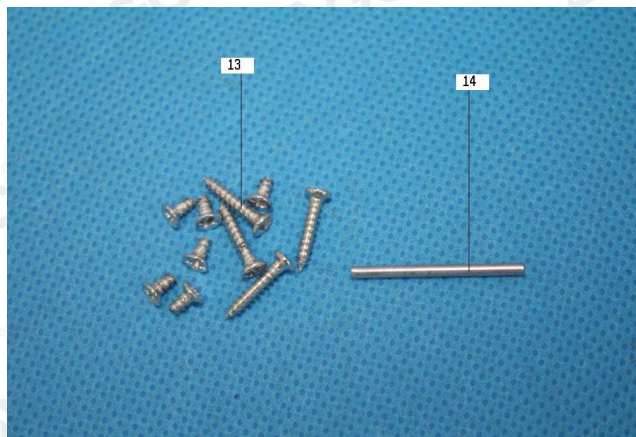
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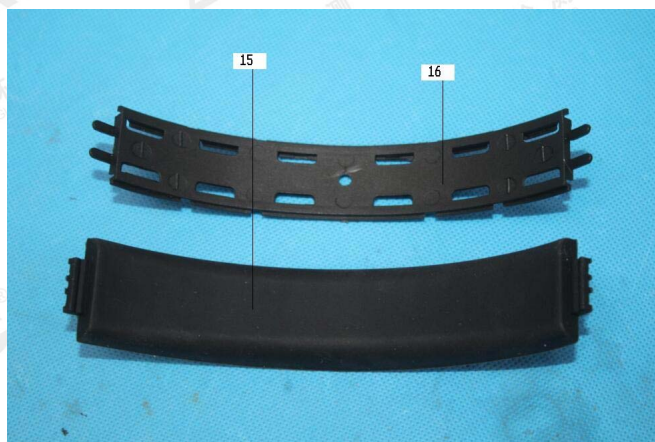
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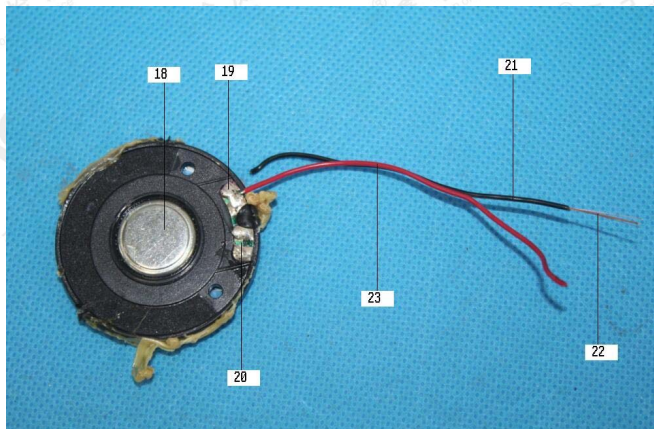
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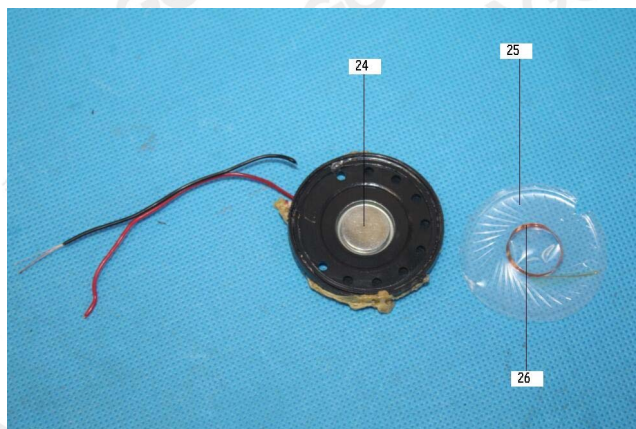
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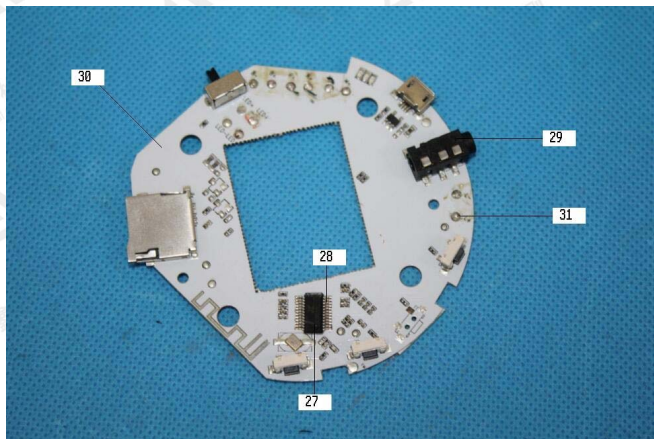
Page 15 of 17



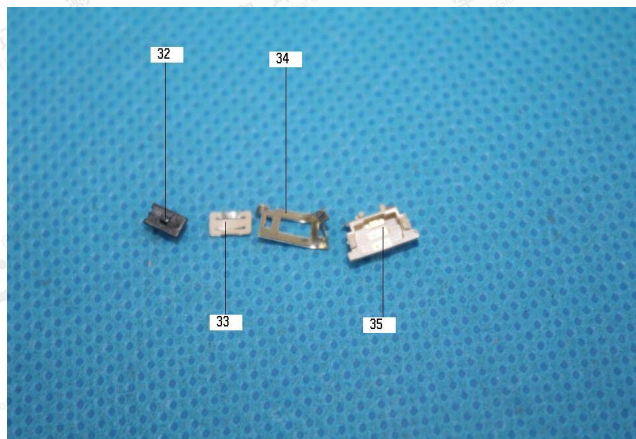
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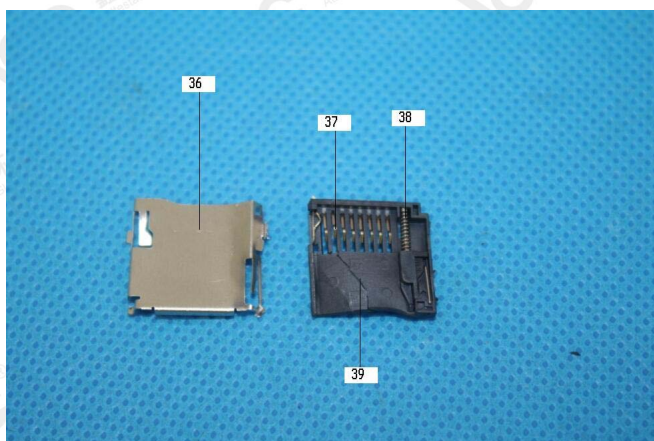
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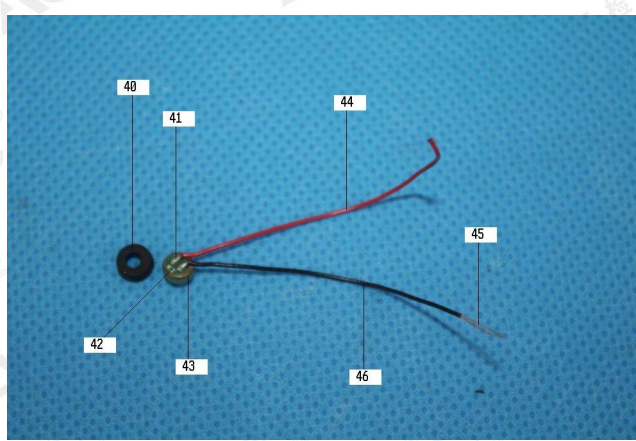
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12

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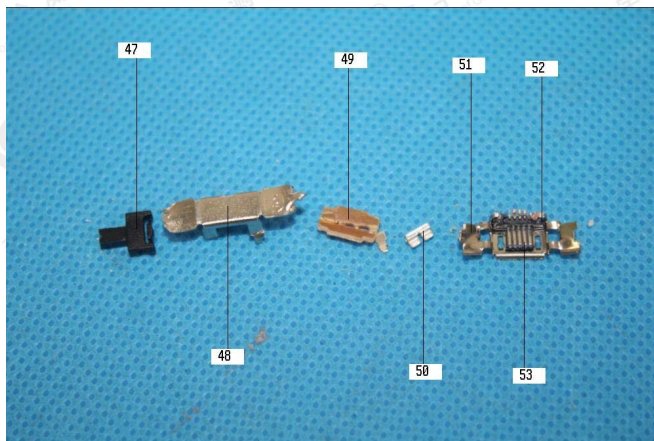
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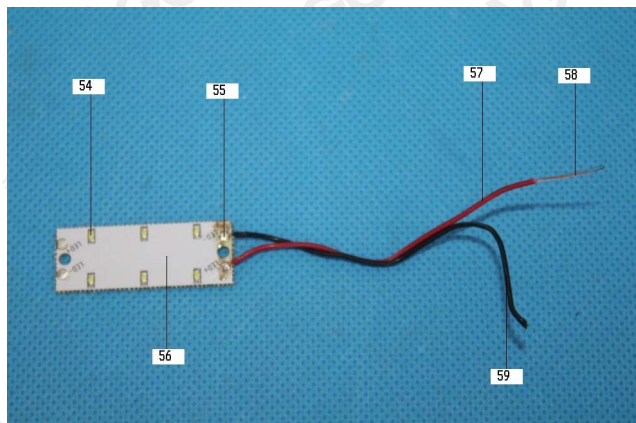
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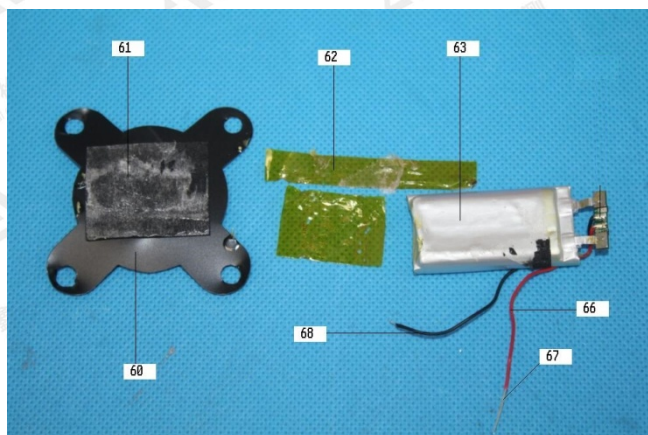
Page 16 of 17



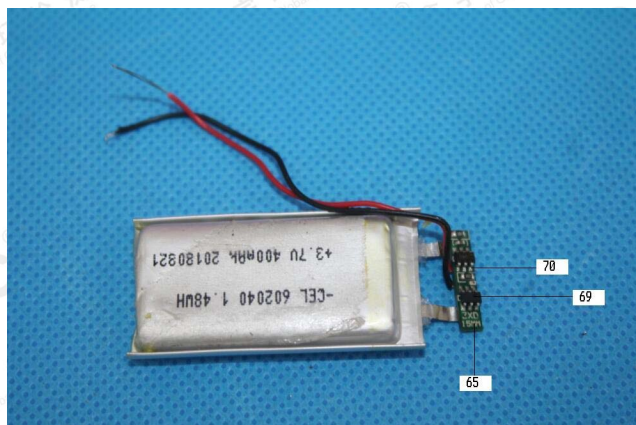
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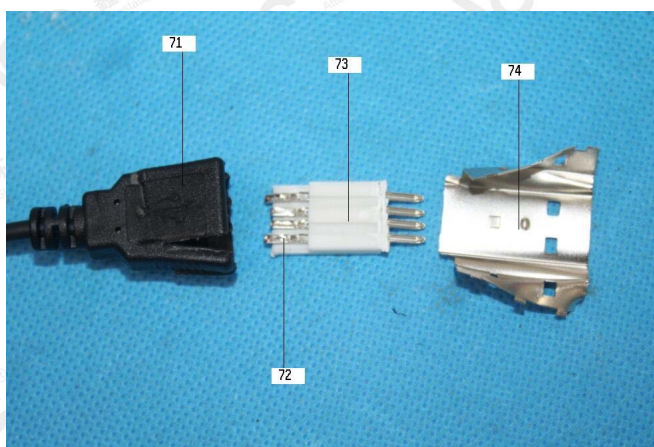
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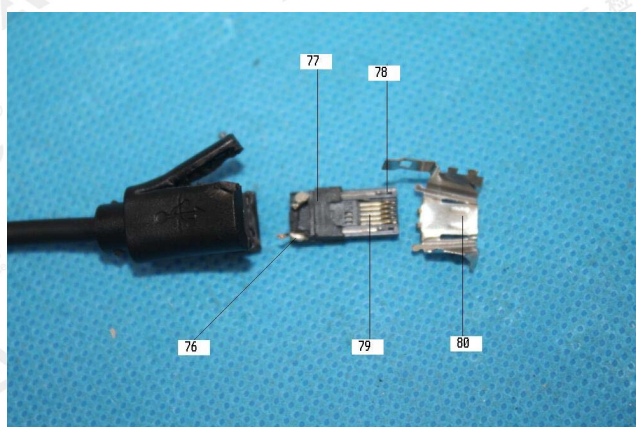
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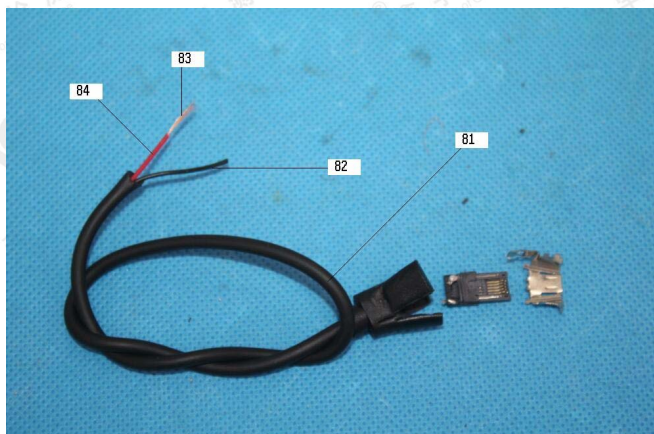
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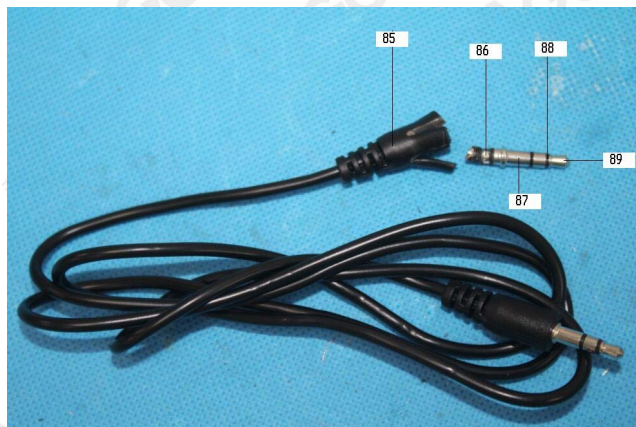
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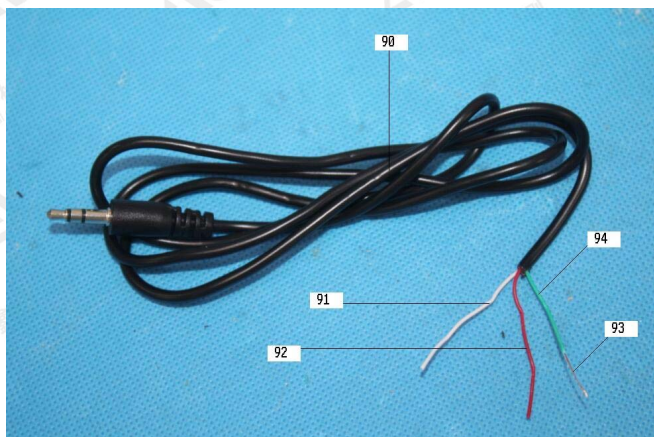
Page 17 of 17



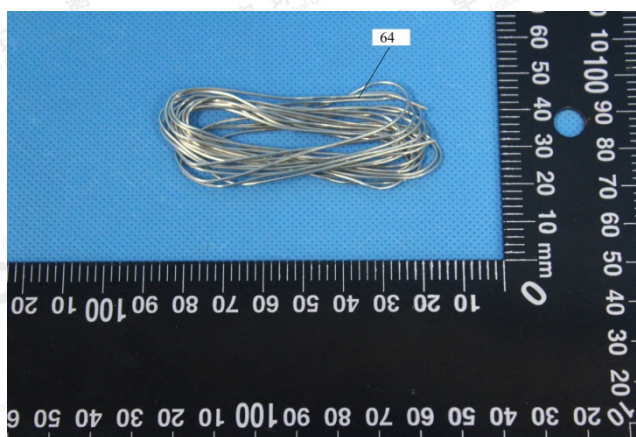
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