

Test Report

Report No.: A001R20170623014

Date: Jun.30, 2017

Page 1 of 14

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: Bluetooth speaker
Sample Model: P326.49
Sample Received Date: Jun.23, 2017
Testing Period: Jun.23, 2017 to Jun.30, 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).

Tested by: Huisu Luo

Luohuisu
Test Engineer

Reviewed by: Leon

Suhongliang, Leon
Test Team Leader

Approved by: Jason

Jiangyuncheng, Jason
Laboratory Manager



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.: A001R20170623014

Date: Jun.30, 2017

Page 2 of 14

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
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 |

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.: A001R20170623014

Date: Jun.30, 2017

Page 3 of 14

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 coating(Shell) | BL | BL | BL | BL | BL |
| 2 | Metal net cover(Shell) | BL | BL | BL | BL | - |
| 3 | Black plastic shell(Shell) | BL | BL | BL | BL | BL |
| 4 | Black foam (Shell) | BL | BL | BL | BL | BL |
| 5 | Yellow glue(Shell) | BL | BL | BL | BL | BL |
| 6 | Black rubber washer(Shell) | BL | BL | BL | BL | BL |
| 7 | Black plastic bottom cover(Shell) | BL | BL | BL | BL | BL |
| 8 | Black screw(Shell) | BL | BL | BL | BL | - |
| 9 | Silvery metal ring(Shell) | BL | BL | BL | BL | - |
| 10 | Magnetic shielding cover(Horn) | BL | BL | BL | BL | - |
| 11 | Metal frame(Horn) | BL | BL | BL | BL | - |
| 12 | White wire jacket(Horn) | BL | BL | BL | BL | BL |
| 13 | White plastic terminal(Horn) | BL | BL | BL | BL | BL |
| 14 | Wire core(Horn) | BL | BL | BL | BL | - |
| 15 | Black wire jacket(Horn) | BL | BL | BL | BL | BL |
| 16 | Tin solder(Horn) | BL | BL | BL | BL | - |
| 17 | Rivet(Horn) | BL | BL | BL | BL | - |
| 18 | White connector(Horn) | BL | BL | BL | BL | BL |
| 19 | Black press ring(Horn) | BL | BL | BL | BL | BL |
| 20 | Damper(Horn) | BL | BL | BL | BL | BL |
| 21 | Enameled wire(Horn) | BL | BL | BL | BL | - |
| 22 | Vibrating diaphragm(Horn) | BL | BL | BL | BL | BL |
| 23 | Globe-roof(Horn) | BL | BL | BL | BL | BL |
| 24 | Magnet(Horn) | 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.: A001R20170623014

Date: Jun.30, 2017

Page 4 of 14

| Seq. No. | Tested Part(s) | Results(mg/kg) | | | | |
|----------|---|----------------|----|----|----|----|
| | | Cd | Pb | Hg | Cr | Br |
| 25 | Black double-sided adhesive(Battery) | BL | BL | BL | BL | BL |
| 26 | Blue sleeving(Battery) | BL | BL | BL | BL | BL |
| 27 | Electric core(Battery) | BL | BL | BL | BL | BL |
| 28 | Red wire jacket(Battery) | BL | BL | BL | BL | BL |
| 29 | Black wire jacket(Battery) | BL | BL | BL | BL | BL |
| 30 | Wire core(Battery) | BL | BL | BL | BL | - |
| 31 | Tin solder(Battery) | BL | BL | BL | BL | - |
| 32 | PCB board(Battery) | BL | BL | BL | BL | X* |
| 33 | Metal connecting piece(Battery) | BL | BL | BL | BL | - |
| 34 | Chip IC(Battery) | BL | BL | BL | BL | BL |
| 35 | Chip resistor(Battery) | BL | BL | BL | BL | BL |
| 36 | Chip capacitor(Battery) | BL | BL | BL | BL | BL |
| 37 | IC body(IC)(Circuit board) | BL | BL | BL | BL | BL |
| 38 | Pin(IC) (Circuit board) | BL | BL | BL | BL | - |
| 39 | Chip resistor(Circuit board) | BL | BL | BL | BL | BL |
| 40 | Crystal oscillator body(Crystal oscillator) (Circuit board) | BL | BL | BL | BL | BL |
| 41 | Black plastic seat(Crystal oscillator) (Circuit board) | BL | BL | BL | BL | BL |
| 42 | Chip capacitor(Circuit board) | BL | BL | BL | BL | BL |
| 43 | Chip diode(Circuit board) | BL | BL | BL | BL | X* |
| 44 | Chip triode(Circuit board) | BL | BL | BL | BL | X* |
| 45 | Black plastic seat(Headset holder) (Circuit board) | BL | BL | BL | BL | BL |
| 46 | Metal sheet(Headset holder) (Circuit board) | BL | BL | BL | BL | - |
| 47 | PCB board(Circuit board) | BL | BL | BL | BL | X* |
| 48 | Tin solder(Circuit board) | BL | BL | BL | BL | - |
| 49 | Black foam pad(Circuit board) | BL | BL | BL | BL | BL |
| 50 | Red plastic terminal(Connection terminal) (Circuit board) | 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.: A001R20170623014

Date: Jun.30, 2017

Page 5 of 14

| Seq. No. | Tested Part(s) | Results(mg/kg) | | | | |
|--------------------|---|----------------|-----|----|----|----|
| | | Cd | Pb | Hg | Cr | Br |
| 51 | White plastic terminal(Connection terminal) (Circuit board) | BL | BL | BL | BL | BL |
| 52 | Contact pin(Connection terminal) (Circuit board) | BL | BL | BL | BL | - |
| 53 | Metal shell(Micro adapter connector) (Circuit board) | BL | BL | BL | BL | - |
| 54 | Black inner glue(Micro adapter connector) (Circuit board) | BL | BL | BL | BL | BL |
| 55 | Contact pin(Micro adapter connector) (Circuit board) | BL | BL | BL | BL | - |
| 56 | White toggle plastic(Toggle switch) (Circuit board) | BL | BL | BL | BL | BL |
| 57 | Black plastic seat(Toggle switch) (Circuit board) | BL | BL | BL | BL | BL |
| 58 | Pin(Toggle switch) (Circuit board) | BL | BL | BL | BL | - |
| 59 | Shrapnel(Toggle switch) (Circuit board) | BL | BL | BL | BL | - |
| 60 | Metal cover(Toggle switch) (Circuit board) | BL | BL | BL | BL | - |
| Audio cable | | | | | | |
| 61 | Black handle(Audio plug) | BL | BL | BL | BL | BL |
| 62 | Tin solder(Audio plug) | BL | BL | BL | BL | - |
| 63 | Metal ring(Audio plug) | BL | BL | BL | BL | - |
| 64 | Black plastic head(Audio plug) | BL | BL | BL | BL | BL |
| 65 | Metal head(Audio plug) | BL | OL* | BL | BL | - |
| 66 | Black outer wire jacket(Wire rod) | BL | BL | BL | BL | BL |
| 67 | Red enameled wire(Wire rod) | BL | BL | BL | BL | - |
| 68 | Brown enameled wire(Wire rod) | BL | BL | BL | BL | - |
| 69 | Blue enameled wire(Wire rod) | BL | BL | BL | BL | - |
| USB wire | | | | | | |
| 70 | Black handle(USB plug) | BL | BL | BL | BL | BL |
| 71 | Tin solder(USB plug) | BL | BL | BL | BL | - |
| 72 | White plastic plug(USB plug) | BL | BL | BL | BL | BL |
| 73 | Contact pin(USB plug) | 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.: A001R20170623014

Date: Jun.30, 2017

Page 6 of 14

| Seq. No. | Tested Part(s) | Results(mg/kg) | | | | |
|----------|---|----------------|----|----|----|----|
| | | Cd | Pb | Hg | Cr | Br |
| 74 | Metal shell(USB plug) | BL | BL | BL | BL | - |
| 75 | Tin solder(Micro adapter connector) | BL | BL | BL | BL | - |
| 76 | Black plastic plug(Micro adapter connector) | BL | BL | BL | BL | BL |
| 77 | Metal pin(Micro adapter connector) | BL | BL | BL | X* | - |
| 78 | Contact pin(Micro adapter connector) | BL | BL | BL | BL | - |
| 79 | Metal shell(Micro adapter connector) | BL | BL | BL | X* | - |
| 80 | Black outer wire jacket(Wire rod) | BL | BL | BL | BL | BL |
| 81 | Red wire jacket(Wire rod) | BL | BL | BL | BL | BL |
| 82 | Wire core(Wire rod) | BL | BL | BL | BL | - |
| 83 | Black wire jacket(Wire rod) | BL | BL | BL | BL | BL |

| 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.: A001R20170623014

Date: Jun.30, 2017

Page 7 of 14

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 the document 2005/618/EC amending 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.

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.: A001R20170623014

Date: Jun.30, 2017

Page 8 of 14

B. The Test Results of Chemical Method:

1) The Test Results of Pb

| Test Item(s) | Unit | Result(s) |
|--------------|-------|-----------|
| | | 65 |
| Lead(Pb) | mg/kg | 25057* |

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

MDL = Method Detection Limit

* = As claimed by the material declaration submitted by the client, the materials of the sample No.65 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 metal Cr⁶⁺

| Test Item(s) | MDL | Result(s) | | Limit |
|---|----------|-----------|----------|-------|
| | | 77 | 79 | |
| Hexavalent Chromium (Cr ⁶⁺) | See note | Negative | Negative | # |

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.: A001R20170623014

Date: Jun.30, 2017

Page 9 of 14

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 $\mu\text{g}/\text{cm}^2$ 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 \geq the 0,10 $\mu\text{g}/\text{cm}^2$ and \leq the 0,13 $\mu\text{g}/\text{cm}^2$ 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 $\mu\text{g}/\text{cm}^2$ 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.

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.: A001R20170623014

Date: Jun.30, 2017

Page 10 of 14

3) The Test Results of PBBs & PBDEs

Unit:mg/kg

| Item(s) | MDL | Result(s) | | | | Limit |
|--|-----|-------------|-------------|-------------|-------------|------------------------------|
| | | 32 | 43 | 44 | 47 | |
| 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

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

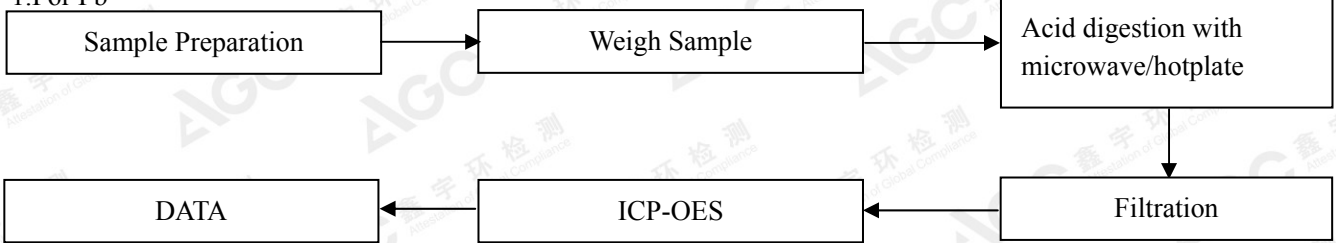
Report No.: A001R20170623014

Date: Jun.30, 2017

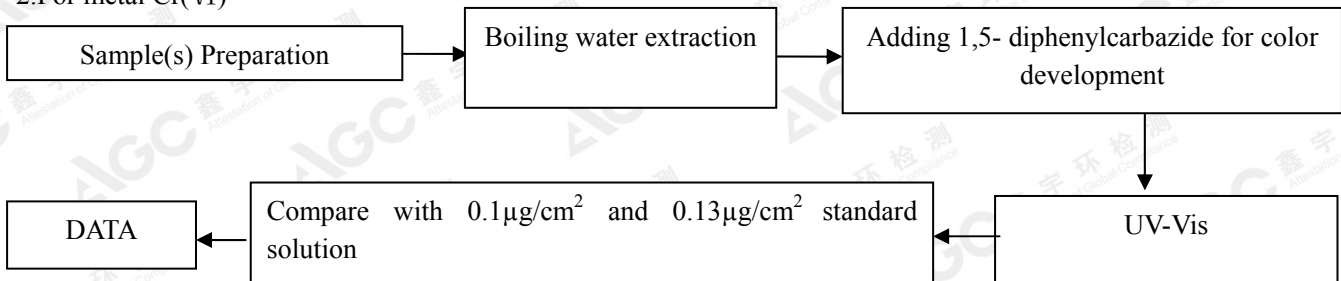
Page 11 of 14

Test Flow Chart

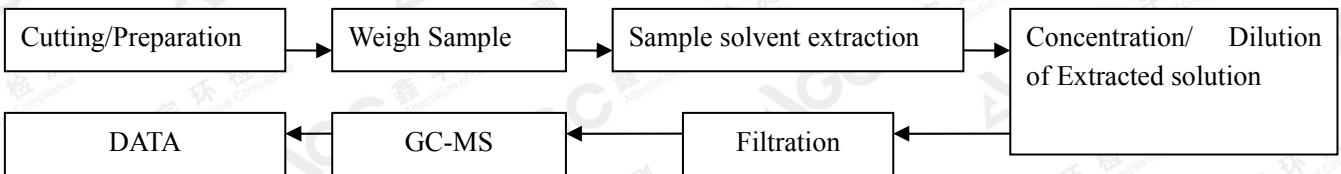
1.For Pb



2.For metal Cr(VI)



3.For PBBs & PBDEs



The photo of the sample



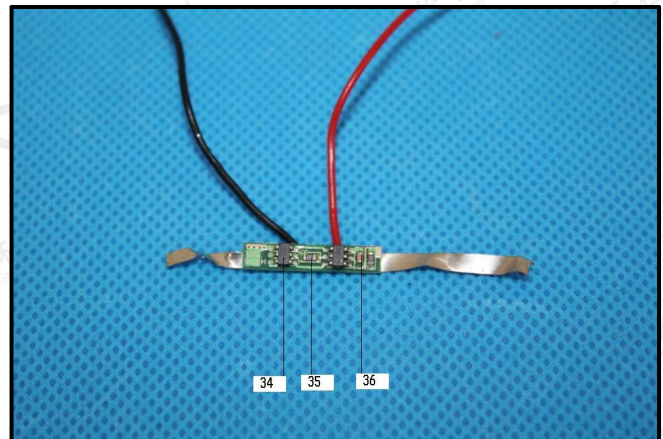
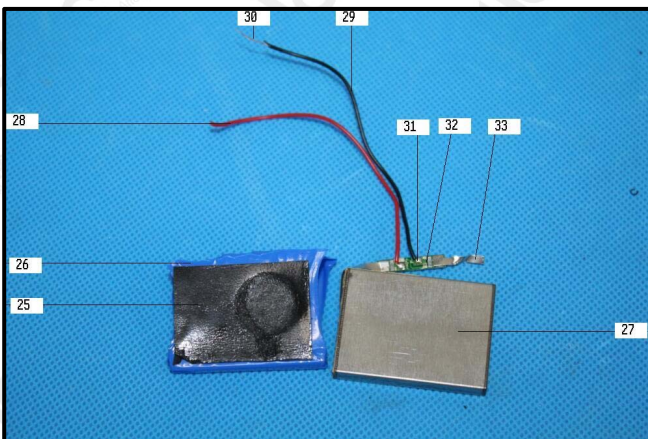
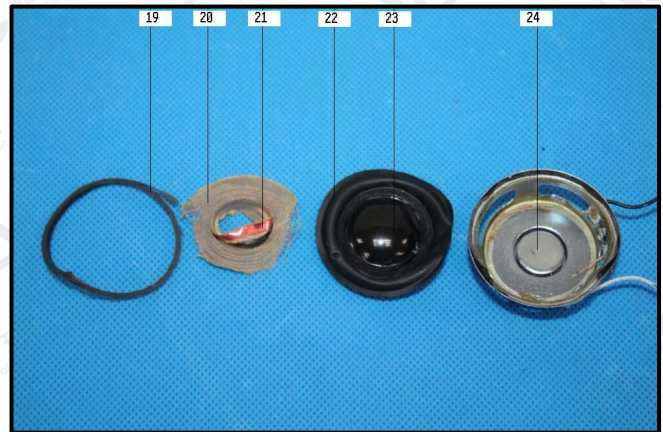
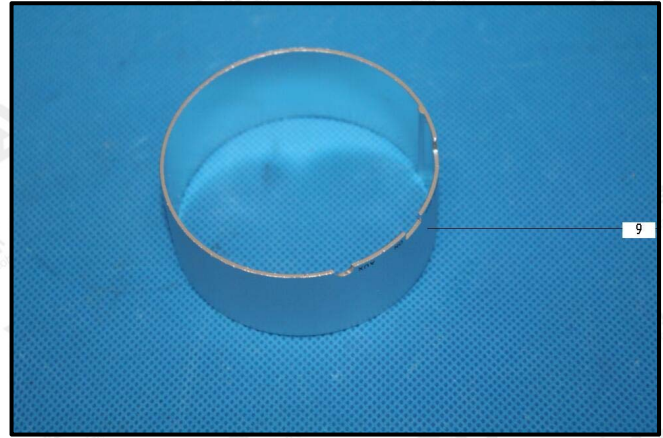
The results shown in this test report refer only to the sample(s) tested unless otherwise stated and the sample(s) are retained for 30 days only. The document is issued by AGC, this document cannot be reproduced except in full with our prior written permission. The more details and the authenticity of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

Test Report

Report No.: A001R20170623014

Date: Jun.30, 2017

Page 12 of 14



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>.

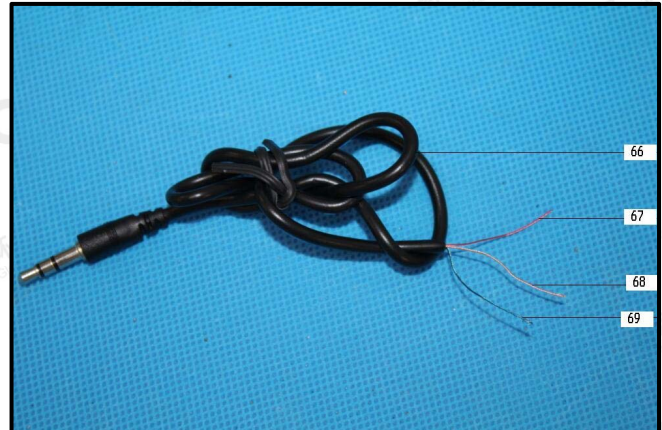
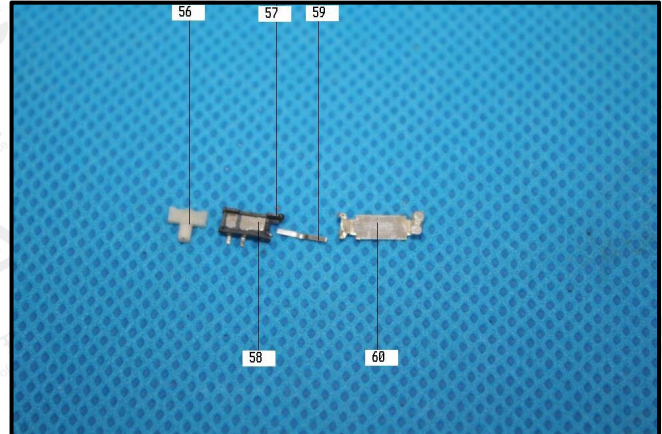
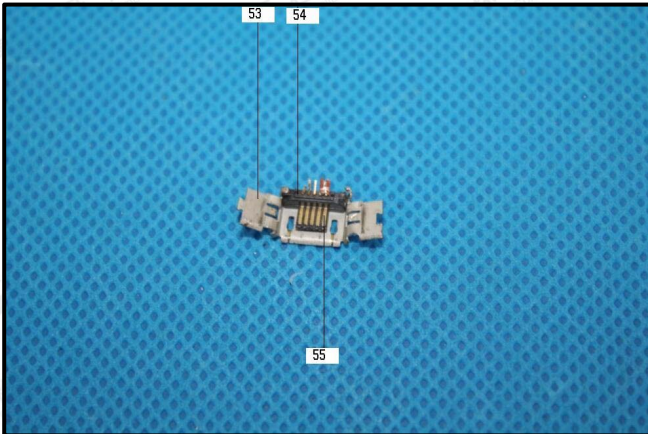
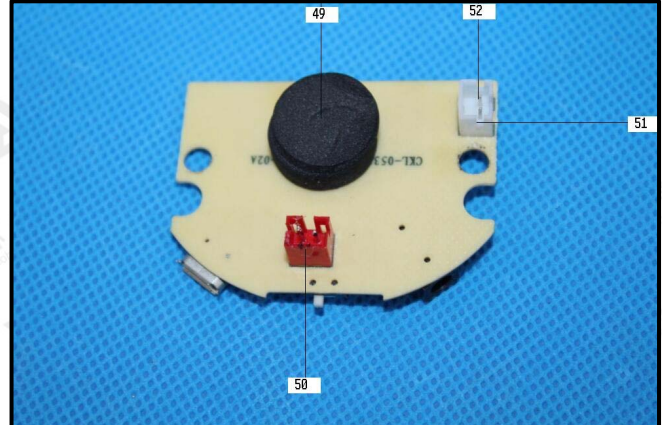
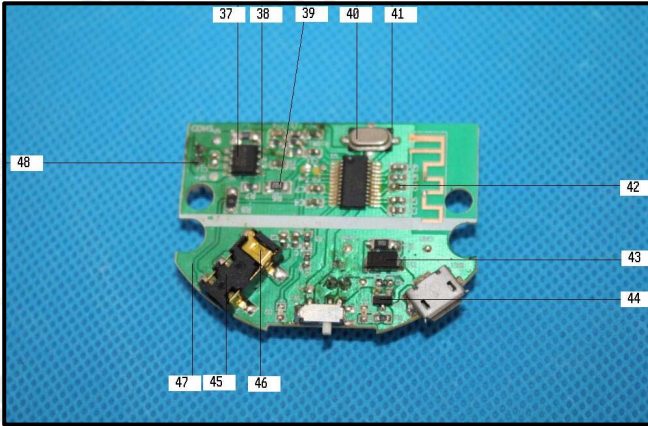


Test Report

Report No.: A001R20170623014

Date: Jun.30, 2017

Page 13 of 14



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>.

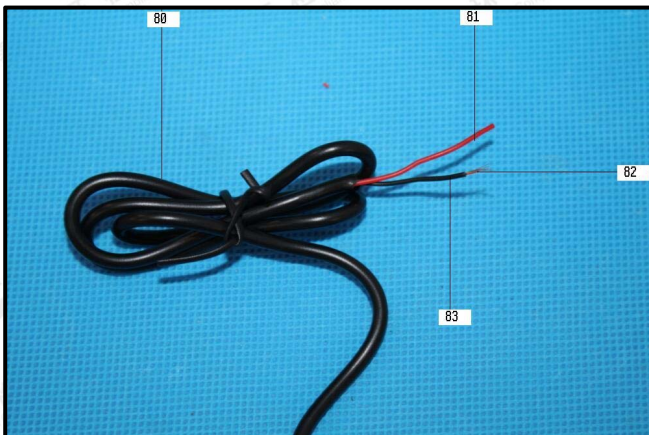
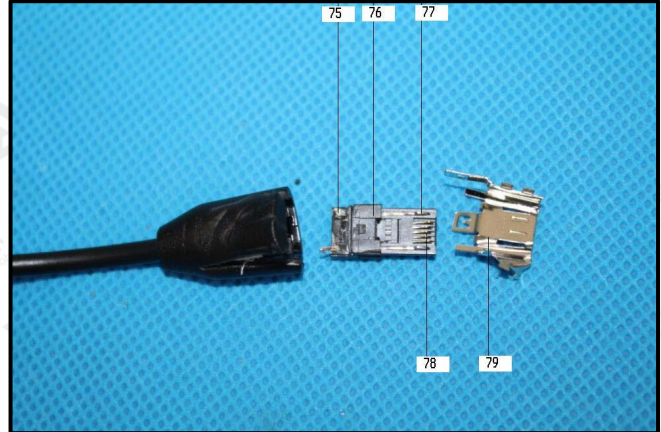
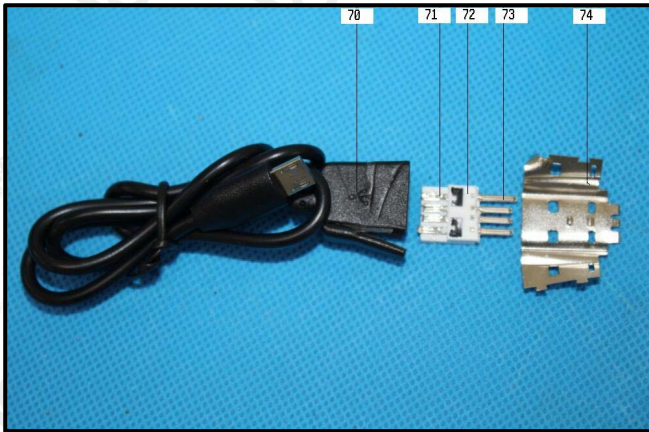


Test Report

Report No.: A001R20170623014

Date: Jun.30, 2017

Page 14 of 14



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>.

