AGC[®]鑫 宇 环 检 测 Attestation of Global Compliance

Test Report

Report No.: AGC04094191102-001

Date: Dec.05, 2019

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| 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 |
| | District, Shenzhen, Guanguong, China |

| Report on the submitted | l sample(s) said to be: |
|-------------------------|---|
| Sample Name: | Bamboo colour changing 3W speaker light |
| Sample Model: | P329.34 |
| Sample Received Date: | Nov.28, 2019 |
| Testing Period: | Nov.28, 2019 to Dec.05, 2019 |
| Test Requested: | Please refer to following page(s). |
| Test Method: | Please refer to following page(s). |

Please refer to following page(s).





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Test Result:

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Test Requested:

As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, 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.

Test Methods:

A:<u>Screening by X-ray Fluorescence Spectrometry (XRF)</u>: 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 | A Contractor | |
| PBBs/PBDEs | IEC 62321-6:2015 | GC-MS | 5 mg/kg | |
| Di-iso-butyl phthalate (DIBP) | | GC-MS | 50 mg/kg | |
| Dibutyl phthalate (DBP) | UEG (2221 0 2017) 5 3 4 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | GC-MS | 50 mg/kg | |
| Butylbenzyl phthalate (BBP) | - IEC 62321-8:2017 | GC-MS | 50 mg/kg | |
| Di-(2-ethylhexyl) Phthalate (DEHP) | | GC-MS | 50 mg/kg | |

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Conclusion

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Test Results:

A、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

| Seq. | Tested Part(s) | | Results(mg/kg) | | | | | |
|------|--|----|----------------|----|------------|-----|--|--|
| No. | Tested Part(s) | Cd | Pb | Hg | Cr | Br | | |
| 1 | Gray rubber mats(outer shell) | BL | BL | BL | BL | BL | | |
| 2 | Milk white plastic shell(outer shell) | BL | BL | BL | BL | BL | | |
| 3 | Grey rubber ring(outer shell) | BL | BL | BL | BL | BL | | |
| 4 | Milky plastic inter shell(outer shell) | BL | BL | BL | BL | BL | | |
| 5 | Brown wood shell(outer shell) | BL | BL | BL | BL | BL | | |
| 6 | White coating(outer shell) | BL | BL | BL | X* | BL | | |
| 7 🕋 | Metal mesh(outer shell) | BL | BL | BL | BL | N/A | | |
| 8 | Silver screw | BL | BL | BL | <u></u> X* | N/A | | |
| 9 | T iron(horn) | BL | BL | BL | BL | N/A | | |
| 10 | Black magnet(horn) | BL | BL | BL | BL | BL | | |
| 11 | Tin solder(horn) | BL | BL | BL | BL | N/A | | |
| 12 | Connector(horn) | BL | BL | BL | BL | BL | | |
| 13 | Red wire jacket(horn) | BL | BL | BL | BL | BL | | |
| 14 | Black wire jacket(horn) | BL | BL | BL | X* | BL | | |
| 15 | Wire core(horn) | BL | BL | BL | BL | N/A | | |
| 16 | Metal frame(horn) | BL | BL | BL | X* | N/A | | |
| 17 | Globe-roof(horn) | BL | BL | BL | BL | BL | | |
| 18 | Black vibrating film(horn) | BL | BL | BL | BL | BL | | |
| 19 | Damper(horn) | BL | BL | BL | BL | BL | | |
| 20 | Enameled coil(horn) | BL | BL | BL | BL | N/A | | |
| 21 | Micro metal joint(Micro joint)(PCB) | BL | BL | BL | BL | N/A | | |
| 22 | Grey plastic joint(Micro joint)(PCB) | BL | BL | BL | BL | BL | | |
| 23 | Contact pin(Micro joint)(PCB) | BL | BL | BL | BL | N/A | | |
| 24 | Black plastic switch(switch)(PCB) | BL | BL | BL | BL | X* | | |

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| Seq. | Tested Dert(a) | S | Results(mg/kg) | | | | |
|----------------|----------------------------------|----|----------------|----|------|-----|--|
| No. | Tested Part(s) | Cd | Pb | Hg | Cr | Br | |
| 25 | Metal shell(switch)(PCB) | BL | BL | BL | BL | N/A | |
| 26 | Metal shrapnel(switch)(PCB) | BL | BL | BL | X* | N/A | |
| 27 | White plastic seat(switch)(PCB) | BL | BL | BL | BL | BL | |
| 28 | Chip LED(PCB) | BL | BL | BL | BL | BL | |
| 29 | PCB board(PCB) | BL | BL | BL | BL | X* | |
| 30 | Tin solder(PCB) | BL | BL | BL | BL | N/A | |
| 31 | Chip capacitor(PCB) | BL | BL | BL | BL | BL | |
| 32 | Chip resistor(PCB) | BL | BL | BL | BL | BL | |
| 33 | Chip diode(PCB) | BL | BL | BL | BL | X* | |
| 34 | Chip triode(PCB) | BL | BL | BL | BL | BL | |
| 35 | IC body(PCB) | BL | BL | BL | BL | BL | |
| 36 | Tin plating(PCB) | BL | BL | BL | BL | N/A | |
| 37 | Chip crystal(crystal)(PCB) | BL | BL | BL | BL | BL | |
| 38 | Black plastic seat(crystal)(PCB) | BL | BL | BL | BL | BL | |
| 39 | Brown tape(battery) | BL | BL | BL | BL | BL | |
| 40 | Chip capacitor(battery) | BL | BL | BL | BL | BL | |
| 41 | Chip resistor(battery) | BL | BL | BL | BL | BL | |
| 42 | IC body(battery) | BL | BL | BL | BL | BL | |
| 43 | Tin plating(battery) | BL | BL | BL | BL | N/A | |
| 44 | PCB board(battery) | BL | BL | BL | BL | X* | |
| 45 | Tin solder(battery) | BL | BL | BL | BL | N/A | |
| 46 | Red wire jacket(battery) | BL | BL | BL | X* | BL | |
| 47 | Black wire jacket(battery) | BL | BL | BL | BL | BL | |
| 48 | Wire core(battery) | BL | BL | BL | X* | N/A | |
| bal Compliance | USB wire | | | | 1111 | | |
| 49 | Black handle(USB plug) | BL | BL | BL | BL | BL | |

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| Seq. | Total Devita | Results(mg/kg) | | | | | |
|------|-----------------------------------|----------------|----|----|----|-----|--|
| No. | Tested Part(s) | Cd | Pb | Hg | Cr | Br | |
| 50 | White plastic plug(USB plug) | BL | BL | BL | BL | BL | |
| 51 | Contact pin(USB plug) | BL | BL | BL | BL | N/A | |
| 52 | USB metal plug(USB plug) | BL | BL | BL | BL | N/A | |
| 53 | Tin solder(USB plug) | BL | BL | BL | BL | N/A | |
| 54 | Tin solder(Micro plug) | BL | BL | BL | BL | N/A | |
| 55 | Grey plastic plug(Micro plug) | BL | BL | BL | BL | BL | |
| 56 | Contact pin(Micro plug) | BL | BL | BL | BL | N/A | |
| 57 | Thimble(Micro plug) | BL | BL | BL | X* | N/A | |
| 58 | Micro metal plug(Micro plug) | BL | BL | BL | X* | N/A | |
| 59 | Black outer wire jacket(wire rod) | BL | BL | BL | BL | BL | |
| 60 | Red wire jacket(wire rod) | BL | BL | BL | BL | BL | |
| 61 | Transparent wire jacket(wire rod) | BL | BL | BL | BL | BL | |
| 62 | Wire core(wire rod) | BL | BL | BL | BL | N/A | |
| 63 | Black rubber vibrating diaphragm | BL | BL | BL | BL | BL | |
| 64 | Black metal sheet | BL | BL | BL | BL | N/A | |

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| Unit | Non-metal | Metal | Composite Material |
|-------|---|--|--|
| mg/kg | BL≤70-3σ <x <130+3σ≤OL</x | BL≤70-3σ <x <130+3σ≤OL</x | BL≤50-3σ <x <150+3σ≤OL</x |
| mg/kg | BL≤700-3σ <x <1300+3σ≤OL</x | BL≤700-3σ <x <1300+3σ≤OL</x | BL≤500-3σ <x <1500+3σ≤OL</x |
| mg/kg | BL≤700-3σ <x <1300+3σ≤OL</x | BL≤700-3σ <x <1300+3σ≤OL</x | BL≤500-3σ <x <1500+3σ≤OL</x |
| mg/kg | BL≤700-3σ <x< td=""><td>BL≤700-3σ<x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<></td></x<> | BL≤700-3σ <x< td=""><td>BL≤500-3σ<x< td=""></x<></td></x<> | BL≤500-3σ <x< td=""></x<> |
| mg/kg | BL≤300-3σ <x< td=""><td>N/A</td><td>BL≤250-3σ<x< td=""></x<></td></x<> | N/A | BL≤250-3σ <x< td=""></x<> |
| | mg/kg mg/kg mg/kg mg/kg | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | $\begin{array}{c c c c c c c c c c c c c c c c c c c $ |

Note: BL= Below Limit

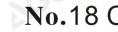
OL= Over limited

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.

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Remark:

- 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.
- i 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:

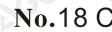
| RoHS Restricted Substances | Maximum Concentration Value (mg/kg) (by weight in homogenous materials) |
|--------------------------------------|--|
| Cadmium (Cd) | 100 |
| Lead (Pb) | 1000 |
| Mercury (Hg) | 1000 |
| Hexavalent Chromium (Cr(VI)) | 1000 |
| Polybrominated biphenyls (PBBs) | 1000 |
| 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.

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B. The Test Results of Chemical Method:

1) The Test Results of non-metal Cr⁶⁺

| | TI •/ | | | | |
|--|-------|------|------|------|-------|
| Test Item(s) | Unit | 6 | 14 | 46 | Limit |
| Hexavalent Chromium(Cr ⁶⁺) | 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

2)The Test Results of metalCr⁶⁺

| Test Harrier MDI | | Result(s) | | | | | | T ::4 |
|--|----------|-----------|----------|----------|----------|----------|----------|-------|
| Test Item(s) | MDL | 8 | 16 | 26 | 48 | 57 | | Limit |
| 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 |
|-----------------------|---|---|
| C Thestation of Gu | | The sample is negative for Cr(VI) – The Cr(VI) |
| G ¹ | The sample solution is $<$ the 0,10 μ g/cm ² | concentration is below the limit of quantification. |
| I | equivalent comparison standard solution | The coating is considered a non-Cr(VI) based |
| | The there is the connected of the | coating. |
| opliance ® A | The sample solution is \geq the 0,10 µg/cm ² | The result is considered to be inconclusive – |
| 2 | and \leq the0,13 µg/cm ² equivalent | Unavoidable coating variations may influence |
| S | comparison standard solutions | thedetermination. |
| | | The sample is positive for Cr(VI) – The Cr(VI) |
| | The sample solution is > the 0,13 μ g/cm ² | concentration is above the limit of quantification |
| The 3 contract | equivalent comparison standard solution | andthe statistical margin of error. The sample |
| station of Giu | | 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 and the statistical margin of error. The sample coating is considered to contain Cr(VI).

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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.

3) The Test Results of PBBs & PBDEs

| | | | O T F (Gobald B Frond Gut | | | Unit:mg/kg |
|------------------------------|------------|--------|---------------------------|------|------|------------------------------|
| Item(s) | MDI | lestan | Result(s) | | | |
| | MDL | 24 | 29 | 33 | 44 | Limit |
| Polybrominated Biphenyls (PB | Bs) | | · | | | |
| Monobromobiphenyl | 5 | N.D. | N.D. | N.D. | N.D. | |
| 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. | The Hallonce |
| Pentabromobiphenyl | 5 | N.D. | N.D. | N.D. | N.D. | Allestation of Car |
| Hexabromobiphenyl | 5 | N.D. | N.D. | N.D. | N.D. | Total PBBs Content <1000 |
| Heptabromobiphenyl | 5 | N.D. | N.D. | N.D. | N.D. | |
| Octabromobiphenyl | 5 | N.D. | N.D. | N.D. | N.D. | Compliance (R) # FA |
| Nonabromodiphenyl | 5 | N.D. | N.D. | N.D. | N.D. | GC |
| Decabromodiphenyl | 5 | N.D. | N.D. | N.D. | N.D. | |
| Total content | GP | N.D. | N.D. | N.D. | N.D. | THE ALL |
| PolybrominatedDiphenylethers | (PBDEs) | | • | · | | |
| Monobromodiphenyl ether | 5 | N.D. | N.D. | N.D. | N.D. | AGC |
| 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 | S 5 00 000 | N.D. | N.D. | N.D. | N.D. | Total PBDEs Content <1000 |
| 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. 0 | N.D. | N.D. | |
| Decabromodiphenyl ether | 5 0 | N.D. | N.D. | N.D. | N.D. | |
| Total content | 10 | N.D. | N.D. | N.D. | N.D. | the mas |
| Conclusion | | Pass | Pass | Pass | Pass | The soul come |

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

mg/kg = parts per million

MDL = Method Detection Limit

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

| Test item Limit Seq. No. | | Nilesta | | | Unit: mg/kg Conclusion |
|--------------------------------|------|-------------|-------------|--------------|------------------------|
| | DIBP | DBP 1000 | BBP 1000 | DEHP 1000 | |
| | 1000 | | | | |
| GG | N.D. | N.D. | N.D. | N.D. | Pass |
| 2 | N.D. | N.D. | N.D. | N.D. | Pass |
| 3 3 3 | N.D. | N.D. | N.D. | N.D. | Pass |
| -C 4 - C | 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 |
| 10 | 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 |
| 14 | N.D. | N.D. | N.D. | N.D. | Pass |
| 17 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 |
| 22 | N.D. | N.D. | N.D. | N.D. | Pass |
| 24 | N.D. | N.D. | N.D. | N.D. | Pass |
| 27 | N.D. | N.D. | N.D. | N.D. | Pass |
| 28 | N.D. | N.D. | N.D. | N.D. | Pass |
| 29 | N.D. | N.D. | N.D. | N.D. | Pass |
| 31 | 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 |
| 35 | N.D. | N.D. | N.D. | N.D. | Pass |
| 37 | N.D. | N.D. | N.D. | N.D. | Pass |
| 38 | N.D. | N.D. | N.D. | N.D. | Pass |
| 39 | N.D. | N.D. | N.D. | N.D. | Pass |

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| Test item Limit Seq. No. | DIBP | DBP | BBP 1000 | ДЕНР 1000 | Conclusion |
|--------------------------------|------|------|-------------|---------------------|------------|
| | 1000 | 1000 | | | |
| 40 | N.D. | N.D. | N.D. | N.D. | Pass |
| 41 | N.D. | N.D. | N.D. | N.D. | Pass |
| 42 | N.D. | N.D. | N.D. | N.D. | Pass |
| 44 | 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 |
| 49 | N.D. | N.D. | N.D. | N.D. | Pass |
| 50 | N.D. | N.D. | N.D. | N.D. | Pass |
| 55 | N.D. | N.D. | N.D. | N.D. | Pass |
| 59 | N.D. | N.D. | N.D. | N.D. | Pass |
| 60 | N.D. | N.D. | N.D. | N.D. | Pass |
| 61 fr 1 | N.D. | N.D. | N.D. | N.D. | Pass |
| 63 | 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)

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No.18 (



Page 12 of 16 Report No.: AGC04094191102-001 Date: Dec.05, 2019 **Test Flow Chart** 1.For non-metal Cr(VI) pH adjustment to 7.5±0.5 Weigh Sample Sample pretreatment Adding 1,5-diphenylcarbazide DATA **UV-Vis** for color development 2.For metal Cr(VI) Boiling water extraction Adding 1,5- diphenylcarbazide for color Sample(s) Preparation development Compare with $0.1\mu g/cm^2$ and $0.13\mu g/cm^2$ standard UV-Vis DATA solution 3.For PBBs, PBDEs, DBP, BBP, DEHP, DIBP Cutting/Preparation Weigh Sample Sample solvent extraction Concentration/ Dilution of Extracted solution DATA GC-MS Filtration

Test result on specimen No.36 was resubmitted on Dec.04, 2019.

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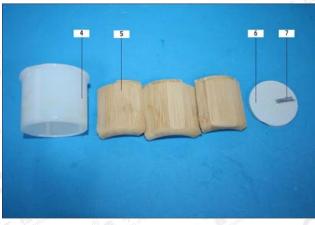
Report No.: AGC04094191102-001

Date: Dec.05, 2019

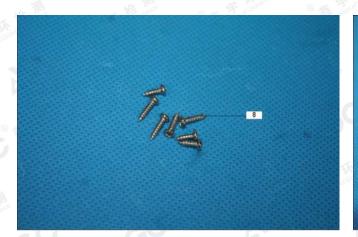
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The photo of the sample



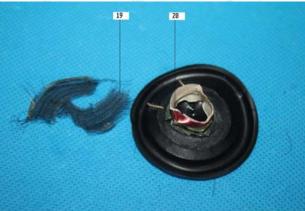


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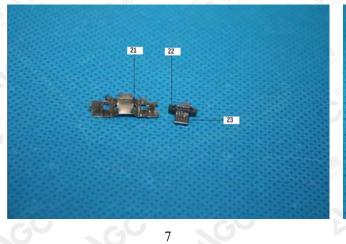
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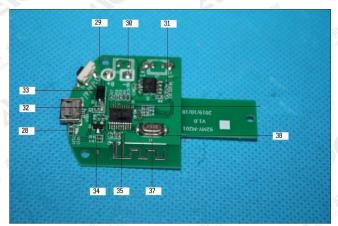
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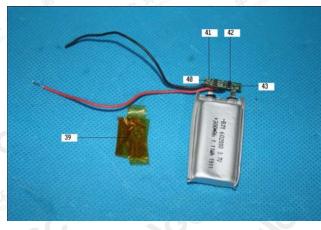
Date: Dec.05, 2019

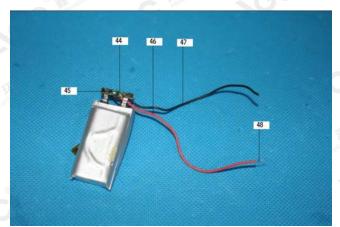
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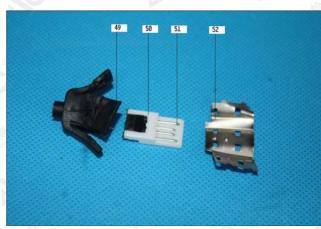






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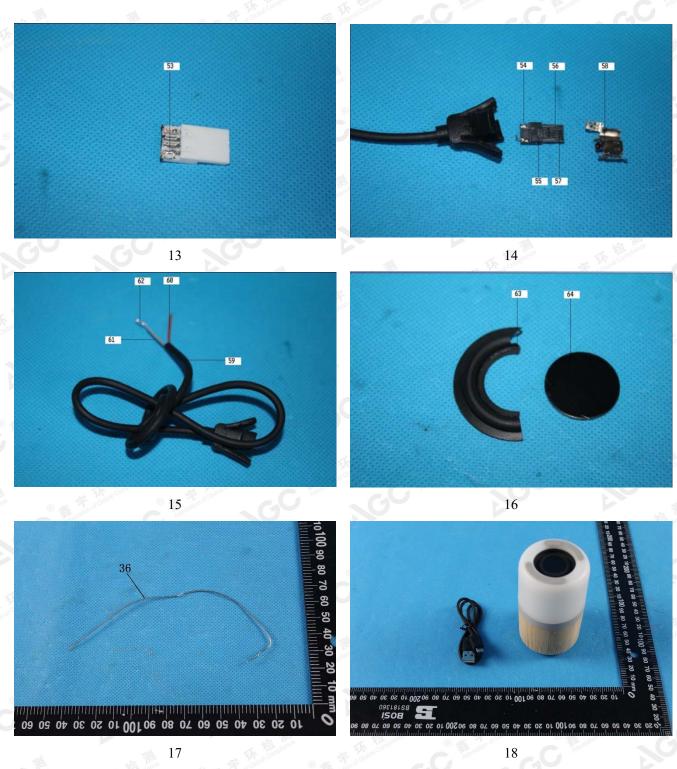
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AGC04094191102-001 AGC authenticate the photo only on original report *** End of Report ***

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