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检测
TESTING
CNAS L6478



TEST REPORT

Report No...... : WTF23F10230588A1C
Applicant..... : Mid Ocean Brands B.V.
Address..... : 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer : 116428
Sample Name : 2x5W Speaker
Sample Model..... : MO2211
Test Conclusion : **Pass** (Based on the performed tests on the submitted samples, the results comply with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863)
Date of Receipt sample : 2023-10-27 & 2023-11-22
Testing period : 2023-10-27 to 2023-11-18 & 2023-11-22 to 2023-11-24
Date of Issue..... : 2023-11-27
Test Result..... : Refer to next page (s)



Prepared By:

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Signed for and on behalf of
Waltek Testing Group (Foshan) Co., Ltd.

Swing.Liang



Report No.: WTF23F10230588A1C

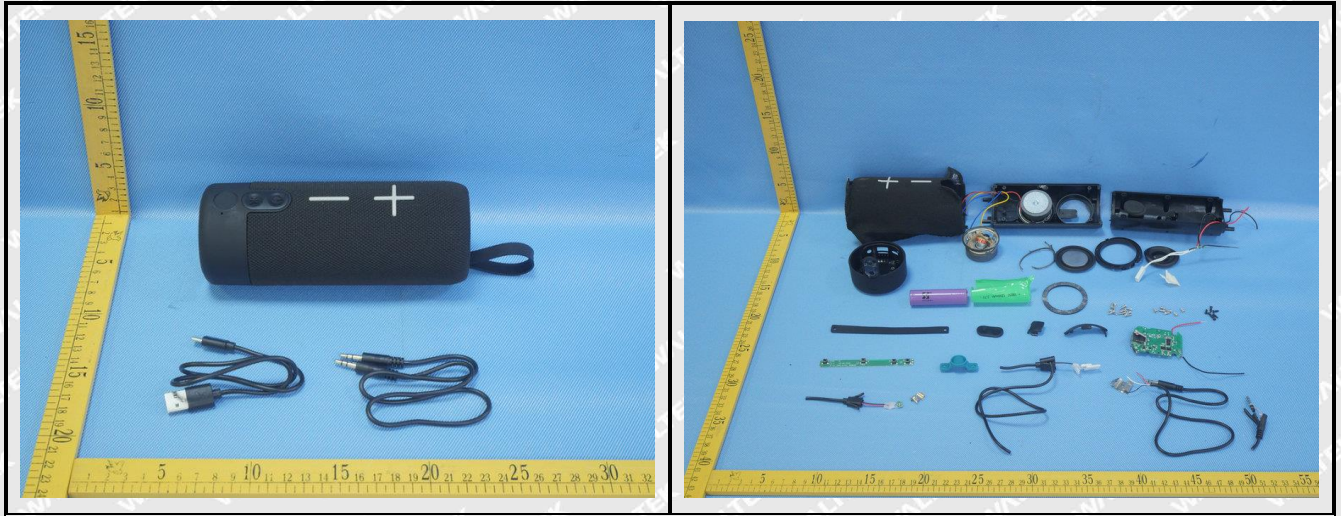
- Test Requested** : In accordance with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863.
- Test Method**..... : 1) With reference to IEC 62321-2:2021, disassembly, disjunction and mechanical sample preparation
2) With reference to IEC 62321-3-1:2013, screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry
3) With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES
4) With reference to IEC 62321-5:2013, determination of Lead and Cadmium by ICP-OES
5) With reference to IEC 62321-7-2: 2017 and IEC 62321-7-1: 2015, determination of Hexavalent Chromium by UV-Vis
6) With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS
7) With reference to IEC 62321-8:2017, determination of Phthalates content by GC-MS.

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Sample Photo(s):



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**Test Results:****1. Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs and PBDEs**

| Part No. | Part Description | Result of XRF | | | | | Result of Wet Chemical Testing (mg/kg) |
|----------|---|---------------|----|----|----|----|--|
| | | Cd | Pb | Hg | Cr | Br | |
| 1 | Black plastic shell | BL | BL | BL | BL | BL | NA |
| 2 | Black soft plastic button | BL | BL | BL | BL | BL | NA |
| 3 | White plastic button | BL | BL | BL | BL | BL | NA |
| 4 | Black main fabric | BL | BL | BL | BL | BL | NA |
| 5 | Black soft plastic sheet | BL | BL | BL | BL | BL | NA |
| 6 | Silvery metal sheet | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 7 | Black soft plastic sheet | BL | BL | BL | BL | BL | NA |
| 8 | Black soft plastic sheet | BL | BL | BL | BL | BL | NA |
| 9 | Black soft plastic sheet with adhesive tape | BL | BL | BL | BL | BL | NA |
| 10 | Silvery metal screw(long) | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 11 | Silvery metal screw with black plating | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 12 | Red plastic wire covering | BL | BL | BL | BL | BL | NA |
| 13 | Silvery metal wire | BL | BL | BL | BL | -- | NA |
| 14 | Black plastic wire covering | BL | BL | BL | BL | BL | NA |
| 15 | Green PCB | BL | BL | BL | BL | IN | PBBs : ND PBDEs : ND |
| 16 | Silvery metal screw(short) | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 17 | Black plastic shell(socket) | BL | BL | BL | BL | BL | NA |
| 18 | Silvery metal pin(socket) | BL | BL | BL | BL | -- | NA |
| 19 | Silvery metal shell(socket) | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |



| Part No. | Part Description | Result of XRF | | | | | Result of Wet Chemical Testing (mg/kg) |
|----------|-----------------------------|---------------|----|----|----|----|--|
| | | Cd | Pb | Hg | Cr | Br | |
| 20 | Black plastic core(socket) | BL | BL | BL | BL | BL | NA |
| 21 | Silvery metal pin(socket) | BL | BL | BL | BL | -- | NA |
| 22 | Solder | BL | BL | BL | BL | -- | NA |
| 23 | Silvery metal shell(socket) | BL | BL | BL | BL | -- | NA |
| 24 | Black plastic core(socket) | BL | BL | BL | BL | BL | NA |
| 25 | Silvery metal pin(socket) | BL | BL | BL | BL | -- | NA |
| 26 | Chip MIC | BL | BL | BL | BL | BL | NA |
| 27 | Chip IC | BL | BL | BL | BL | BL | NA |
| 28 | Chip diode | BL | BL | BL | BL | BL | NA |
| 29 | Chip IC | BL | BL | BL | BL | BL | NA |
| 30 | Silvery metal shell(socket) | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 31 | Chip crystal oscillator | BL | BL | BL | BL | BL | NA |
| 32 | Black plastic base | BL | BL | BL | BL | BL | NA |
| 33 | Black plastic shell(socket) | BL | BL | BL | BL | BL | NA |
| 34 | Silvery metal pin(socket) | BL | BL | BL | BL | -- | NA |
| 35 | Chip resistor | BL | BL | BL | BL | BL | NA |
| 36 | Silvery metal spring | BL | BL | BL | BL | -- | NA |
| 37 | Chip LED | BL | BL | BL | BL | BL | NA |
| 38 | Chip audio | BL | BL | BL | BL | BL | NA |
| 39 | Chip capacitor | BL | BL | BL | BL | BL | NA |



| Part No. | Part Description | Result of XRF | | | | | Result of Wet Chemical Testing (mg/kg) |
|----------|-----------------------------|---------------|-----------|----|----|----|--|
| | | Cd | Pb | Hg | Cr | Br | |
| 40 | Black plastic shell | BL | BL | BL | BL | BL | NA |
| 41 | Black plastic shell | BL | BL | BL | BL | BL | NA |
| 42 | Black plastic part(button) | BL | BL | BL | BL | BL | NA |
| 43 | Silvery metal shell(button) | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 44 | Black plastic shell(button) | BL | BL | BL | BL | BL | NA |
| 45 | Silvery metal sheet(button) | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 46 | Silvery metal pin(button) | BL | OL | BL | BL | -- | #Pb : 2.67×10⁴ |
| 47 | Green PCB | BL | BL | BL | BL | BL | NA |
| 48 | Solder | BL | BL | BL | BL | -- | NA |
| 49 | Red plastic wire covering | BL | BL | BL | BL | BL | NA |
| 50 | White paper adhesive tape | BL | BL | BL | BL | BL | NA |
| 51 | Black sponge adhesive tape | BL | BL | BL | BL | BL | NA |
| 52 | Silvery metal wire | BL | BL | BL | BL | -- | NA |
| 53 | Black plastic wire covering | BL | BL | BL | BL | BL | NA |
| 54 | Green plastic film | BL | BL | BL | BL | BL | NA |
| 55 | Blue plastic shell | BL | BL | BL | BL | BL | NA |
| 56 | Transparent dry glue | BL | BL | BL | BL | BL | NA |
| 57 | Green paper sheet | BL | BL | BL | BL | BL | NA |
| 58 | Purple plastic film | BL | BL | BL | BL | BL | NA |
| 59 | Purple paper sheet | BL | BL | BL | BL | BL | NA |



| Part No. | Part Description | Result of XRF | | | | | Result of Wet Chemical Testing (mg/kg) |
|----------|---|---------------|----|----|----|----|--|
| | | Cd | Pb | Hg | Cr | Br | |
| 60 | White plastic wire covering | BL | BL | BL | BL | BL | NA |
| 61 | Silvery metal wire | BL | BL | BL | BL | -- | NA |
| 62 | White plastic shell(fuse) | BL | BL | BL | BL | IN | PBBs : ND PBDEs : ND |
| 63 | Black plastic shell with black dry glue(fuse) | BL | BL | BL | BL | BL | NA |
| 64 | Coppery metal shell(fuse) | BL | BL | BL | BL | -- | NA |
| 65 | Coppery-silvery metal contact(fuse) | BL | BL | BL | BL | -- | NA |
| 66 | Silvery metal shell(fuse) | BL | BL | BL | BL | -- | NA |
| 67 | Golden metal shell(fuse) | BL | BL | BL | BL | -- | NA |
| 68 | Dark silvery metal shell(fuse) | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 69 | Silvery metal sheet | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 70 | Chip IC | BL | BL | BL | BL | BL | NA |
| 71 | Solder | BL | BL | BL | BL | -- | NA |
| 72 | Chip capacitor | BL | BL | BL | BL | BL | NA |
| 73 | Chip resistor | BL | BL | BL | BL | BL | NA |
| 74 | Solder | BL | BL | BL | BL | -- | NA |
| 75 | Green PCB | BL | BL | BL | BL | IN | PBBs : ND PBDEs : ND |
| 76 | Silvery metal wire | BL | BL | BL | BL | -- | NA |
| 77 | Yellow plastic wire covering | BL | BL | BL | BL | BL | NA |
| 78 | Black plastic wire covering | BL | BL | BL | BL | BL | NA |
| 79 | Silvery metal shell | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |



| Part No. | Part Description | Result of XRF | | | | | Result of Wet Chemical Testing (mg/kg) |
|----------|--------------------------------|---------------|----|----|----|----|--|
| | | Cd | Pb | Hg | Cr | Br | |
| 80 | Red plastic wire covering | BL | BL | BL | BL | BL | NA |
| 81 | Blue plastic wire covering | BL | BL | BL | BL | BL | NA |
| 82 | Black magnetic ring | BL | BL | BL | BL | BL | NA |
| 83 | Silvery metal rivet | BL | BL | BL | BL | -- | NA |
| 84 | Solder | BL | BL | BL | BL | -- | NA |
| 85 | Silvery metal shell | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 86 | White paper sheet | BL | BL | BL | BL | BL | NA |
| 87 | Black synthetic leather | BL | BL | BL | BL | BL | NA |
| 88 | Black paper gasket | BL | BL | BL | BL | BL | NA |
| 89 | Black paper shell | BL | BL | BL | BL | BL | NA |
| 90 | Black plastic sheet | BL | BL | BL | BL | BL | NA |
| 91 | Coppery metal wire | BL | BL | BL | BL | -- | NA |
| 92 | Brown net fabric | BL | BL | BL | BL | BL | NA |
| 93 | Brown paper bobbin | BL | BL | BL | BL | BL | NA |
| 94 | Red-coppery varnished wire | BL | BL | BL | BL | BL | NA |
| 95 | Black plastic wire jacket | BL | BL | BL | BL | BL | NA |
| 96 | Black plastic jacket(USB plug) | BL | BL | BL | BL | BL | NA |
| 97 | Black plastic wire covering | BL | BL | BL | BL | BL | NA |
| 98 | Transparent dry glue(USB plug) | BL | BL | BL | BL | BL | NA |
| 99 | White plastic core(USB plug) | BL | BL | BL | BL | BL | NA |



| Part No. | Part Description | Result of XRF | | | | | Result of Wet Chemical Testing (mg/kg) |
|----------|-----------------------------------|---------------|-----------|----|----|----|--|
| | | Cd | Pb | Hg | Cr | Br | |
| 100 | Silvery metal pin(USB plug) | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 101 | Silvery metal shell(USB plug) | BL | BL | BL | BL | -- | NA |
| 102 | Red plastic wire covering | BL | BL | BL | BL | BL | NA |
| 103 | Coppery metal wire | BL | BL | BL | BL | -- | NA |
| 104 | Solder(USB plug) | BL | BL | BL | BL | -- | NA |
| 105 | Black plastic jacket(Type-C plug) | BL | BL | BL | BL | BL | NA |
| 106 | Transparent dry glue(Type-C plug) | BL | BL | BL | BL | BL | NA |
| 107 | Black plastic core(Type-C plug) | BL | BL | BL | BL | BL | NA |
| 108 | Silvery metal shell(Type-C plug) | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 109 | Golden metal pin(Type-C plug) | BL | BL | BL | BL | -- | NA |
| 110 | Silvery metal shell(Type-C plug) | BL | BL | BL | IN | -- | Cr ⁶⁺ : Negative |
| 111 | Green PCB(Type-C plug) | BL | BL | BL | BL | IN | PBBs : ND PBDEs : ND |
| 112 | Solder(Type-C plug) | BL | BL | BL | BL | -- | NA |
| 113 | Black plastic wire jacket | BL | BL | BL | BL | BL | NA |
| 114 | Black plastic jacket(DC plug) | BL | BL | BL | BL | BL | NA |
| 115 | Silvery metal shell(DC plug) | BL | BL | BL | BL | -- | NA |
| 116 | Silvery metal part(DC plug) | IN | OL | BL | BL | -- | Cd :21 #Pb : 2.35×10⁴ |
| 117 | Black plastic core(DC plug) | BL | BL | BL | BL | BL | NA |
| 118 | Solder(DC plug) | BL | BL | BL | BL | -- | NA |
| 119 | Red plastic wire covering | BL | BL | BL | BL | BL | NA |



| Part No. | Part Description | Result of XRF | | | | | Result of Wet Chemical Testing (mg/kg) |
|----------|-----------------------------|---------------|----|----|----|----|--|
| | | Cd | Pb | Hg | Cr | Br | |
| 120 | White plastic wire covering | BL | BL | BL | BL | BL | NA |
| 121 | Black plastic wire covering | BL | BL | BL | BL | BL | NA |
| 122 | Coppery metal wire | BL | BL | BL | BL | -- | NA |

Remark:

- (1) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1: 2013 (unit: mg/kg)

| Element | Polymer | Metal | Composite Materials |
|---------|---|---|---|
| Cd | $BL \leq (70-3\sigma) < IN < (130+3\sigma) \leq OL$ | $BL \leq (70-3\sigma) < IN < (130+3\sigma) \leq OL$ | $LOD < IN < (150+3\sigma) \leq OL$ |
| Pb | $BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < IN < (1500+3\sigma) \leq OL$ |
| Hg | $BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$ | $BL \leq (700-3\sigma) < IN < (1300+3\sigma) \leq OL$ | $BL \leq (500-3\sigma) < IN < (1500+3\sigma) \leq OL$ |
| Cr | $BL \leq (700-3\sigma) < IN$ | $BL \leq (700-3\sigma) < IN$ | $BL \leq (500-3\sigma) < IN$ |
| Br | $BL \leq (300-3\sigma) < IN$ | -- | $BL \leq (250-3\sigma) < IN$ |

BL= Below Limit OL= Over Limit LOD = Limit of Detection -- = Not Regulated

- (2) "IN" expresses the inconclusive region, and further chemical testing to confirm whether it complies with the requirement of RoHS Directive.
- (3) The XRF screening test for RoHS elements – the reading may be different to the actual content in the sample be of non-uniformity composition.
- (4) mg / kg =milligram per kilogram=ppm, $\mu\text{g}/\text{cm}^2$ = Micrograms per square centimetre.
- (5) ND = Not Detected or lower than limit of quantitation.
- (6) NA = Not Applicable, as the XRF screening test result was below the limit or as the XRF screening directly determine that test result was over the limit, it was not need to conduct the wet chemical testing.
- (7) LOQ = Limit of quantitation.

| Test Items | Pb | Cd | Hg | Cr ⁶⁺ | | PBB | PBDE |
|------------|-------|-------|-------|------------------|---------------------------|-------|-------|
| Units | mg/kg | mg/kg | mg/kg | mg/kg | $\mu\text{g}/\text{cm}^2$ | mg/kg | mg/kg |
| LOQ | 2 | 2 | 2 | 8 | 0.1 | 5 | 5 |

The LOQ for single compound of PBBs and PBDEs is 5 mg/kg, LOQ of Cr⁶⁺ for polymer and composite sample is 8 mg/kg and LOQ of Cr⁶⁺ for metal sample is 0.1 $\mu\text{g}/\text{cm}^2$.



(8) RoHS Requirement

| Restricted Substances | Limits |
|--|-------------------|
| Cadmium (Cd) | 0.01% (100 mg/kg) |
| Lead (Pb) | 0.1% (1000 mg/kg) |
| Mercury (Hg) | 0.1% (1000 mg/kg) |
| Chromium (VI) (Cr ⁶⁺) | 0.1% (1000 mg/kg) |
| Polybrominated Biphenyls (PBBs) | 0.1% (1000 mg/kg) |
| Polybrominated Diphenyl Ethers (PBDEs) | 0.1% (1000 mg/kg) |

- (9) According to IEC 62321-7-1:2015, determined of Cr⁶⁺ on metal sample by boiling water extraction test method, and result is shown as Positive/Negative.

Boiling water extraction:

Negative = Absence of Cr⁶⁺ coating, the detected concentration in boiling water extraction solution is less than 0.10 ug/cm².

Positive = Presence of Cr⁶⁺ coating, the detected concentration in boiling water extraction solution is greater than 0.13 ug/cm².

Information on storage conditions and production date of the tested sample is unavailable and thus Cr⁶⁺ results represent status of the sample at the time of testing.

(10) Abbreviation:

“Pb” denotes Lead, “Cd” denotes Cadmium, “Hg” denotes Mercury, “Cr” denotes Chromium, “Cr (VI)” denotes Hexavalent Chromium, “Br” denotes Bromine, “PBBs” denotes Total Polybrominated Biphenyls, “PBDEs” denotes Total Polybrominated Diphenyl Ethers.

- (11)[#] = According to the declaration from client, the source of lead in test sample is from copper alloy while lead as copper alloy containing up to 4% lead by weight is exempted by Directive 2011/65/EU ANNEX III.

2. Phthalates:

| Serial No. | Part No. | Result (mg/kg) | | | |
|------------|---------------------------|----------------|-----|------|------|
| | | DBP | BBP | DEHP | DIBP |
| T01 | 1+3+17+24 ^Δ | ND | ND | ND | ND |
| T02 | 2 | ND | ND | ND | ND |
| T03 | 4 | ND | ND | ND | ND |
| T04 | 5 | ND | ND | ND | ND |
| T05 | 6 | -- | -- | -- | -- |
| T06 | 7 | ND | ND | ND | ND |
| T07 | 8 | ND | ND | ND | ND |
| T08 | 9 | ND | ND | ND | ND |
| T09 | 10 | -- | -- | -- | -- |
| T10 | 11 | -- | -- | -- | -- |
| T11 | 12 | ND | ND | ND | ND |
| T12 | 13 | -- | -- | -- | -- |
| T13 | 14 | ND | ND | ND | ND |
| T14 | 15+47+75+111 ^Δ | ND | ND | ND | ND |
| T15 | 16 | -- | -- | -- | -- |



| Serial No. | Part No. | Result (mg/kg) | | | |
|------------|-----------------------------|----------------|-----|------|------|
| | | DBP | BBP | DEHP | DIBP |
| T16 | 18 | -- | -- | -- | -- |
| T17 | 19 | -- | -- | -- | -- |
| T18 | 20 | ND | ND | ND | ND |
| T19 | 21 | -- | -- | -- | -- |
| T20 | 22 | -- | -- | -- | -- |
| T21 | 23 | -- | -- | -- | -- |
| T22 | 25 | -- | -- | -- | -- |
| T23 | 26+27+28+29+31 [△] | ND | ND | ND | ND |
| T24 | 30 | -- | -- | -- | -- |
| T25 | 32 | ND | ND | ND | ND |
| T26 | 33+40+41 [△] | ND | ND | ND | ND |
| T27 | 34 | -- | -- | -- | -- |
| T28 | 35+37+38+39+70 [△] | ND | ND | ND | ND |
| T29 | 36 | -- | -- | -- | -- |
| T30 | 42 | ND | ND | ND | ND |
| T31 | 43 | -- | -- | -- | -- |
| T32 | 44+54+55+62 [△] | ND | ND | ND | ND |
| T33 | 45 | -- | -- | -- | -- |
| T34 | 46 | -- | -- | -- | -- |
| T35 | 48 | -- | -- | -- | -- |
| T36 | 49 | ND | ND | ND | ND |
| T37 | 50 | ND | ND | ND | ND |
| T38 | 51 | ND | ND | ND | ND |
| T39 | 52 | -- | -- | -- | -- |
| T40 | 53 | ND | ND | 106 | ND |
| T41 | 56 | ND | ND | ND | ND |
| T42 | 57 | ND | ND | ND | ND |
| T43 | 58+63+90+99 [△] | ND | ND | ND | ND |
| T44 | 59 | ND | ND | ND | ND |
| T45 | 60 | 140 | ND | ND | ND |
| T46 | 61 | -- | -- | -- | -- |
| T47 | 64 | -- | -- | -- | -- |
| T48 | 65 | -- | -- | -- | -- |
| T49 | 66 | -- | -- | -- | -- |
| T50 | 67 | -- | -- | -- | -- |
| T51 | 68 | -- | -- | -- | -- |
| T52 | 69 | -- | -- | -- | -- |
| T53 | 71 | -- | -- | -- | -- |
| T54 | 72+73 [△] | ND | ND | ND | ND |
| T55 | 74 | -- | -- | -- | -- |
| T56 | 76 | -- | -- | -- | -- |
| T57 | 77 | ND | ND | ND | ND |
| T58 | 78 | ND | ND | ND | ND |
| T59 | 79 | -- | -- | -- | -- |



| Serial No. | Part No. | Result (mg/kg) | | | |
|------------|-----------------------|----------------|-----|------|------|
| | | DBP | BBP | DEHP | DIBP |
| T60 | 80 | ND | ND | ND | ND |
| T61 | 81 | 132 | ND | ND | ND |
| T62 | 82 | ND | ND | ND | ND |
| T63 | 83 | -- | -- | -- | -- |
| T64 | 84 | -- | -- | -- | -- |
| T65 | 85 | -- | -- | -- | -- |
| T66 | 86+88+89 [△] | ND | ND | ND | ND |
| T67 | 87 | ND | ND | ND | ND |
| T68 | 91 | -- | -- | -- | -- |
| T69 | 92 | ND | ND | ND | ND |
| T70 | 93 | ND | ND | ND | ND |
| T71 | 94 | ND | ND | ND | ND |
| T72 | 95 | ND | ND | ND | ND |
| T73 | 96 | ND | ND | 131 | ND |
| T74 | 97 | ND | ND | ND | ND |
| T75 | 98 | ND | ND | 68 | ND |
| T76 | 100 | -- | -- | -- | -- |
| T77 | 101 | -- | -- | -- | -- |
| T78 | 102 | ND | ND | ND | ND |
| T79 | 103 | -- | -- | -- | -- |
| T80 | 104 | -- | -- | -- | -- |
| T81 | 105 | 59 | ND | 287 | ND |
| T82 | 106 | ND | ND | 64 | ND |
| T83 | 107+117 [△] | ND | ND | ND | ND |
| T84 | 108 | -- | -- | -- | -- |
| T85 | 109 | -- | -- | -- | -- |
| T86 | 110 | -- | -- | -- | -- |
| T87 | 112 | -- | -- | -- | -- |
| T88 | 113 | ND | ND | ND | ND |
| T89 | 114 | ND | ND | 61 | ND |
| T90 | 115 | -- | -- | -- | -- |
| T91 | 116 | -- | -- | -- | -- |
| T92 | 118 | -- | -- | -- | -- |
| T93 | 119 | ND | ND | ND | ND |
| T94 | 120 | ND | ND | ND | ND |
| T95 | 121 | ND | ND | ND | ND |
| T96 | 122 | -- | -- | -- | -- |

Note:

- (1) mg/kg = milligram per kilogram= ppm
- (2) ND = Not Detected or lower than limit of quantitation.
- (3) -- = Not Regulated.



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(4) LOQ = Limit of quantitation.

| Test Items | DBP | BBP | DEHP | DIBP |
|------------|-------|-------|-------|-------|
| Units | mg/kg | mg/kg | mg/kg | mg/kg |
| LOQ | 50 | 50 | 50 | 50 |

(5) Abbreviation:

“DBP” denotes Dibutyl phthalate, “BBP” denotes Benzyl butyl phthalate (BBP), “DEHP” denotes Bis(2-ethylhexyl)-phthalate, “DIBP” denotes Diisobutyl phthalate, “PHT” denotes Phthalates.

(6) RoHS requirement

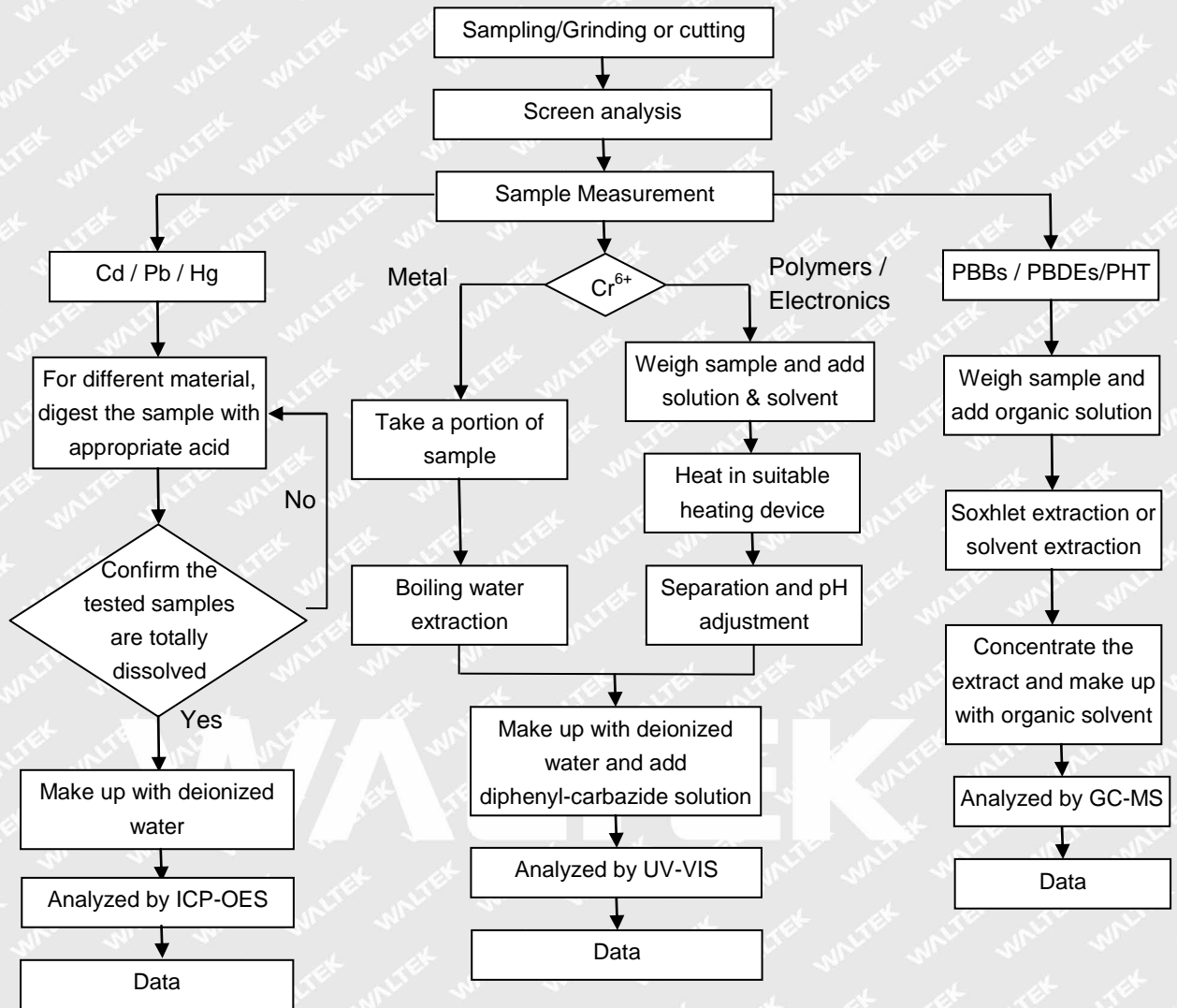
| Restricted Substances | Limits |
|-----------------------------------|-------------------|
| Dibutyl phthalate (DBP) | 0.1% (1000 mg/kg) |
| Benzyl butyl phthalate (BBP) | 0.1% (1000 mg/kg) |
| Di(2-ethylhexyl) phthalate (DEHP) | 0.1% (1000 mg/kg) |
| Di-iso-butyl phthalate (DIBP) | 0.1% (1000 mg/kg) |

(7) “△”= As client’s requirement, the testing was conducted based on mixed components. Results are calculated by the minimum weight of mixed components.

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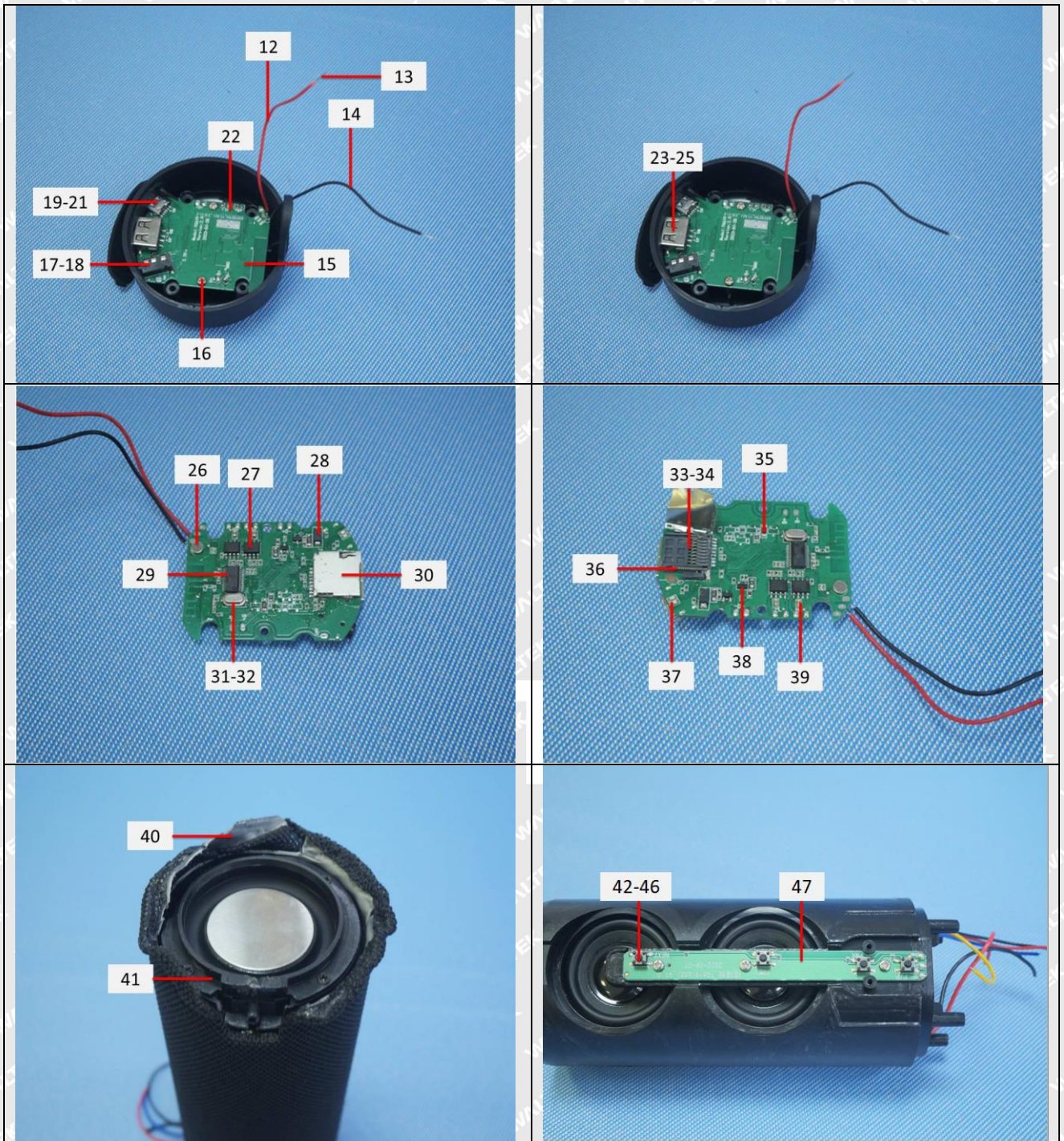
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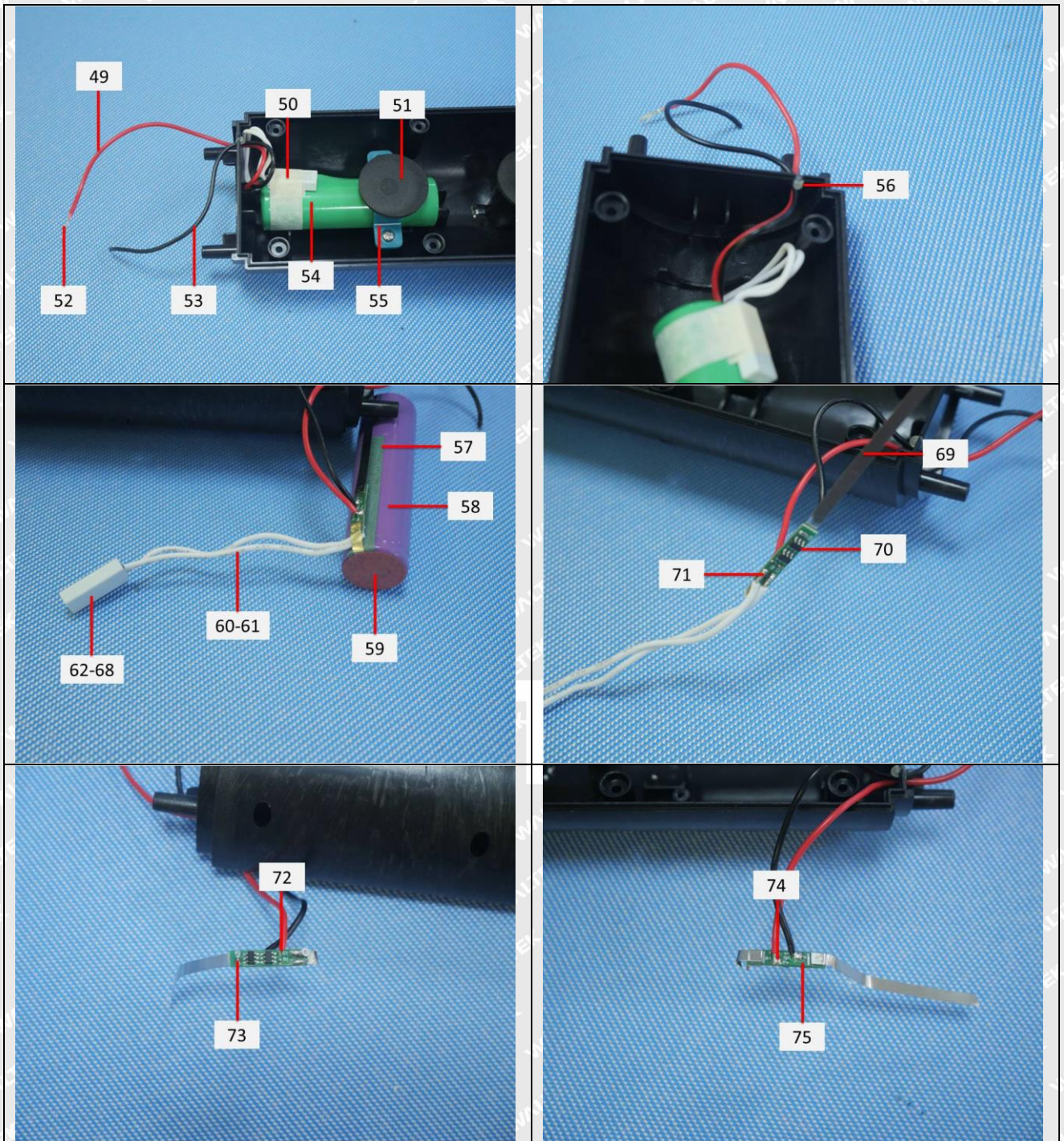


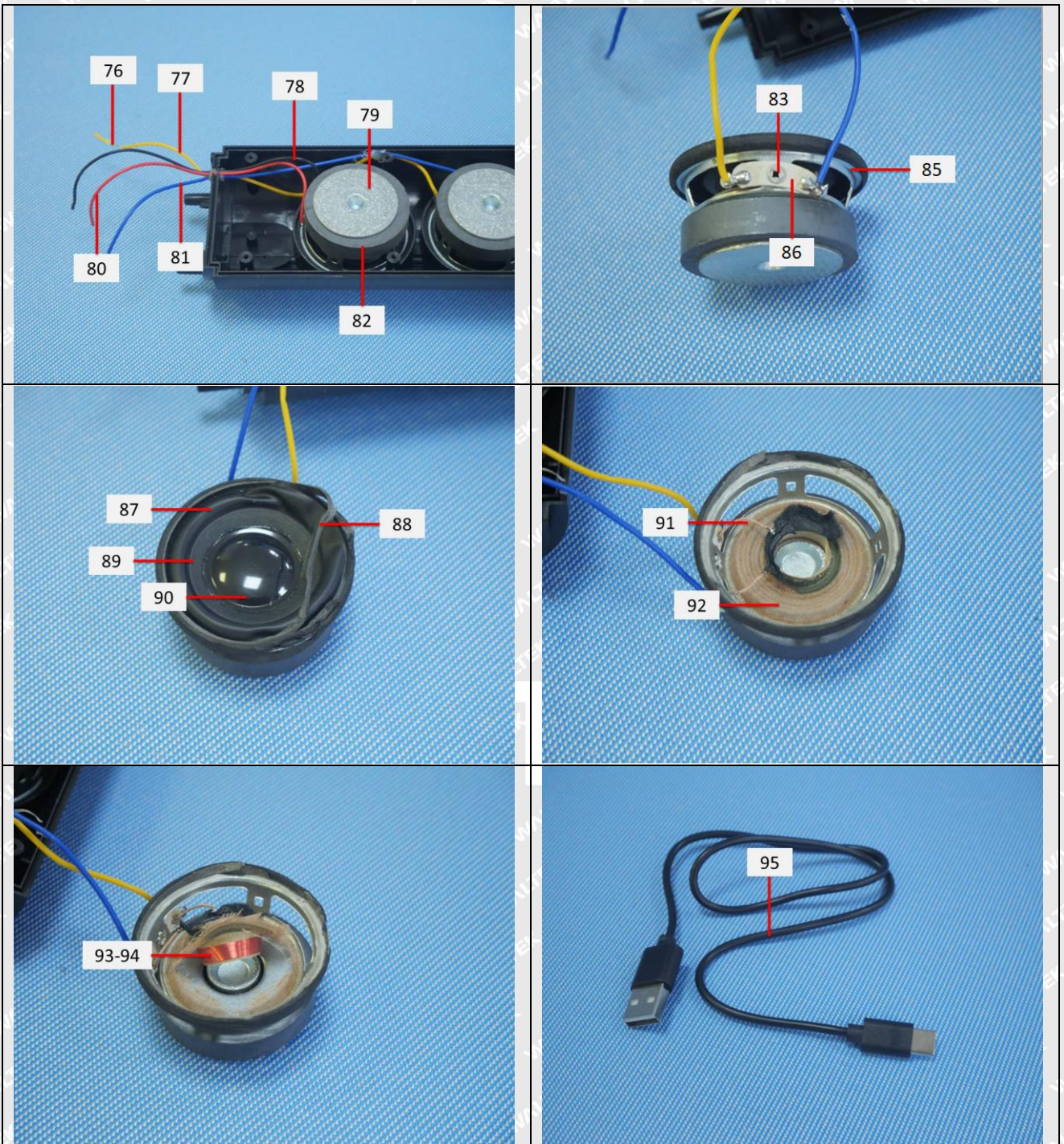


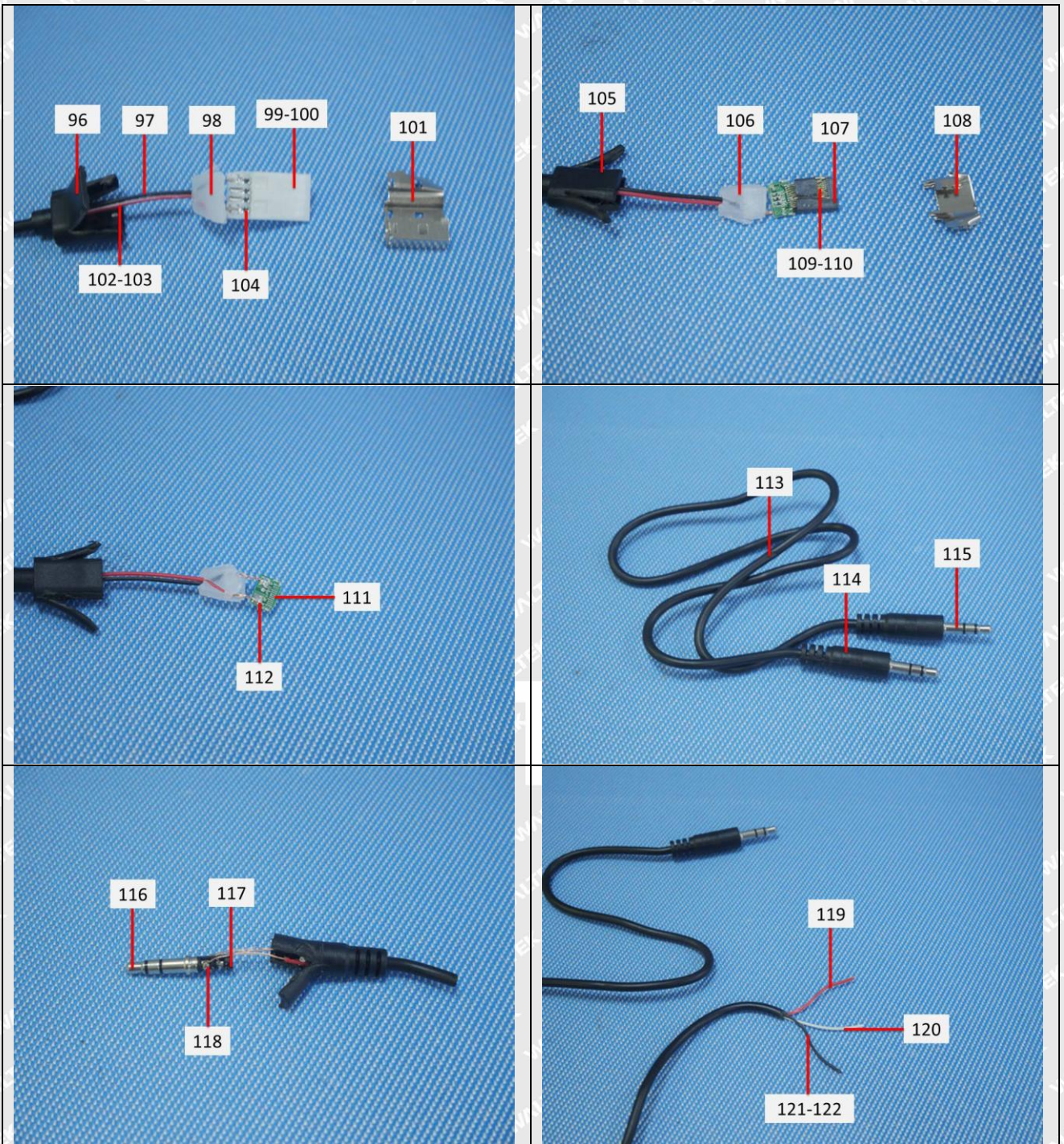
Photograph(s) of parts tested:













Remarks:

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===== End of Report =====