# RoHS Test Report

| | | |
|---|---|---|
| Report No. | : | AGC05443230709-001 |

| | | |
|---|---|---|
| **SAMPLE NAME** | : | 10000mAh Power bank |
| **MODEL NAME** | : | MO6863 |
| **APPLICANT** | : | MID OCEAN BRANDS B.V |
| **STANDARD(S)** | : | Please refer to the following page(s). |
| **DATE OF ISSUE** | : | Aug. 11, 2023 |

***Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd.***

| | | |
|---|---|---|
| Applicant | : | MID OCEAN BRANDS B.V |
| Address | : | 7/F, Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong. |
| Test Site | : | 6/F., Building 2, Sanwei Chaxi Industrial Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China |

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

| | | |
|---|---|---|
| Sample Name | : | 10000mAh Power bank |
| Model | : | MO6863 |
| Vendor code | : | 118051 |
| Country of Origin | : | CHINA |
| Country of Destination | : | EUROPE |
| Sample Received Date | : | Jul. 24, 2023 |
| Testing Period | : | Jul. 24, 2023 to Aug. 11, 2023 |
| Test Requested | : | Selected test(s) as requested by client. |

| **Test Requested:** | **Conclusion** |
|---|---|
| 2011/65/EU (RoHS) and its amendment directive (EU) 2015/863<br>- Pb, Cd, Hg, $Cr^{6+}$, PBBs, PBDEs, DBP, BBP, DEHP, DIBP | Pass |

Approved by : Jessie.Liang

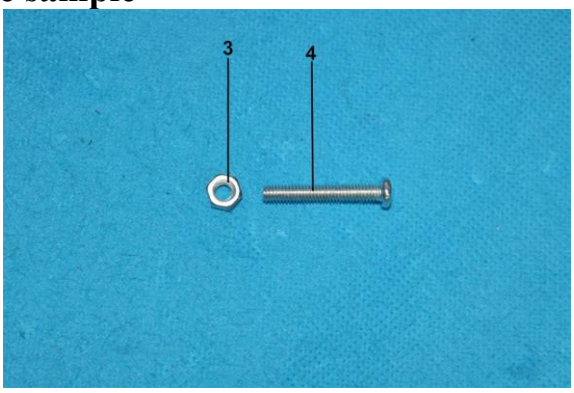
Liangdan, Jessie.Liang

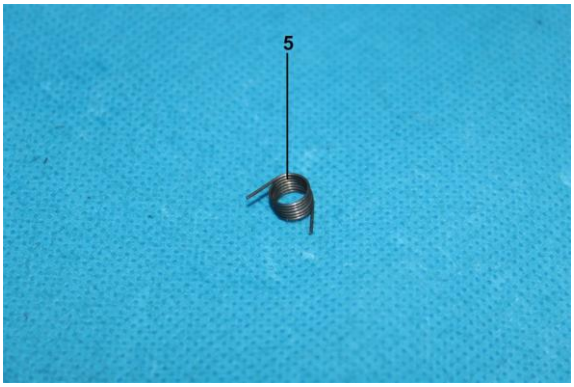
Technical Director

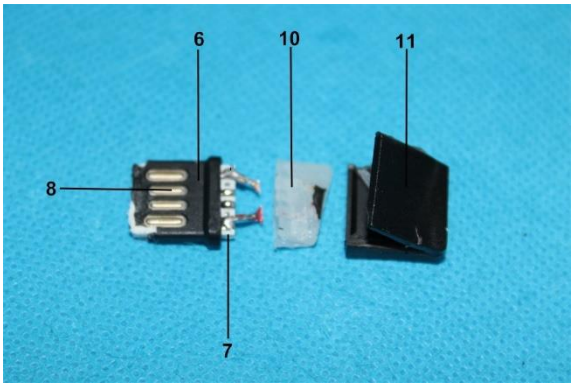
Report Revise Record

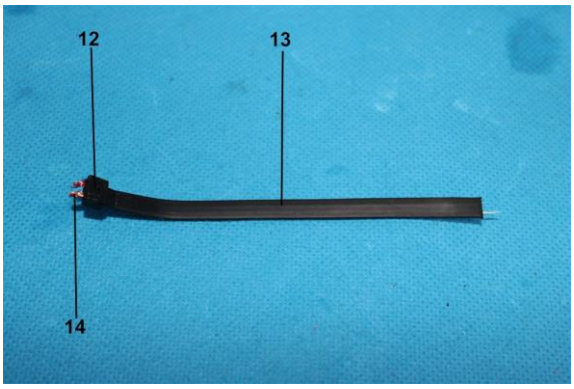
| Report Version | Issued Date | Valid Version | Notes |
|---|---|---|---|
| / | Aug. 11, 2023 | Valid | Initial release |

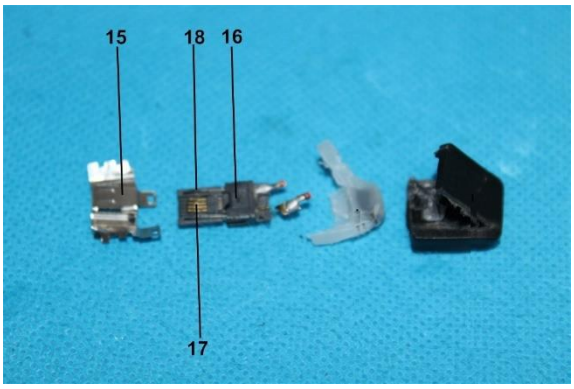
# The photo of the sample

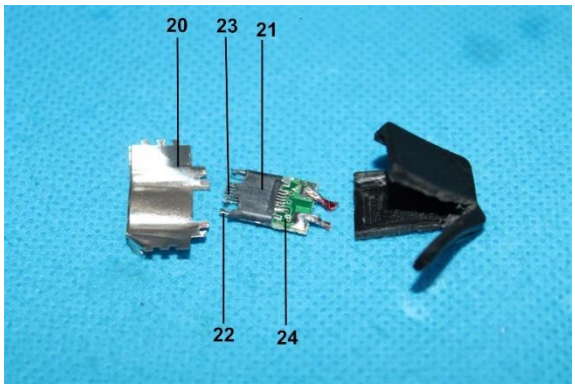



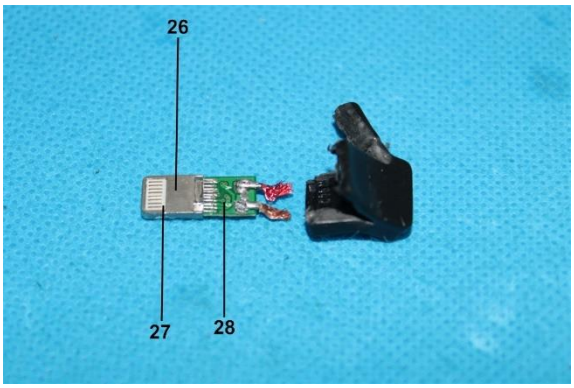



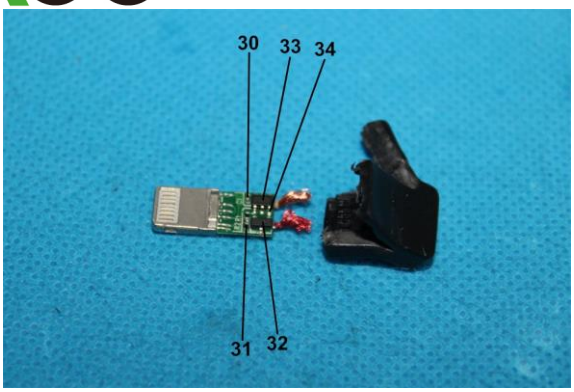



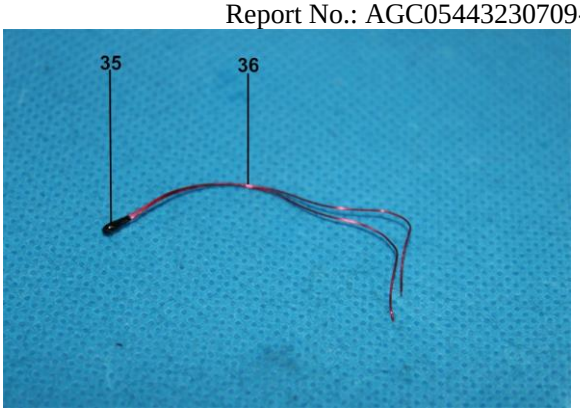



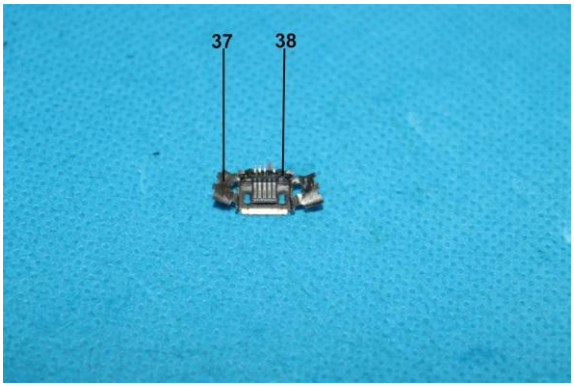



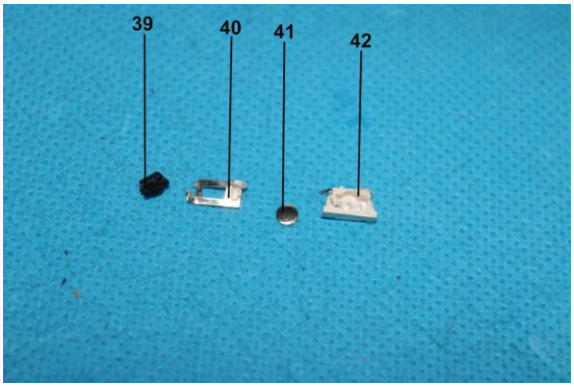



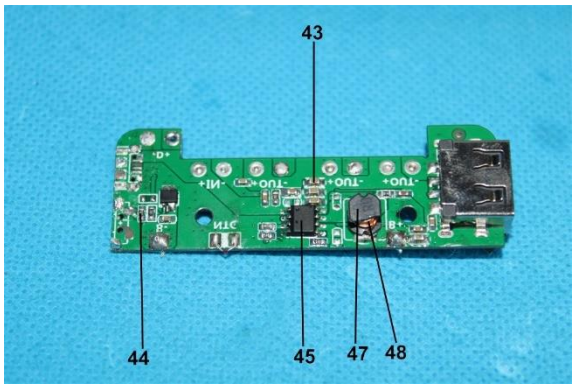



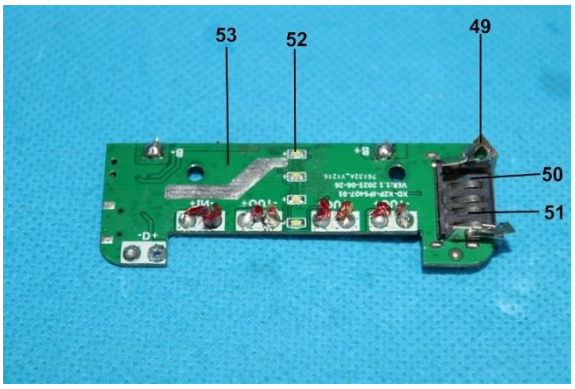


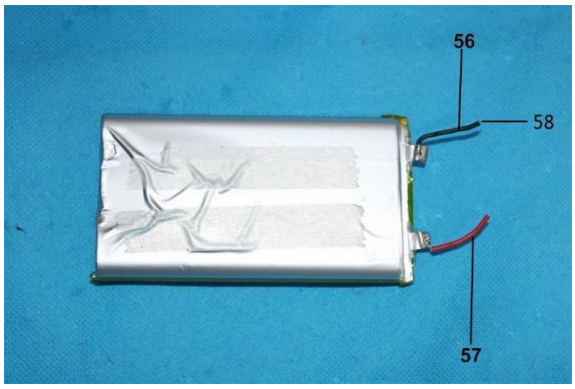



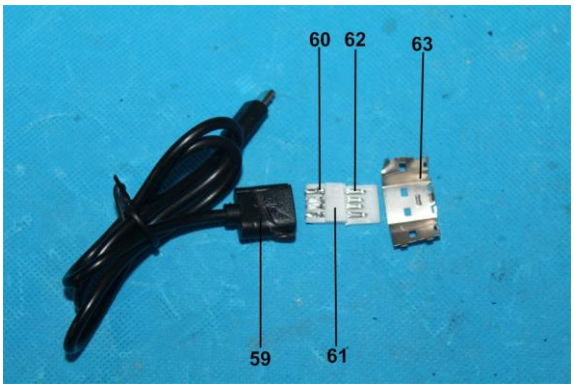



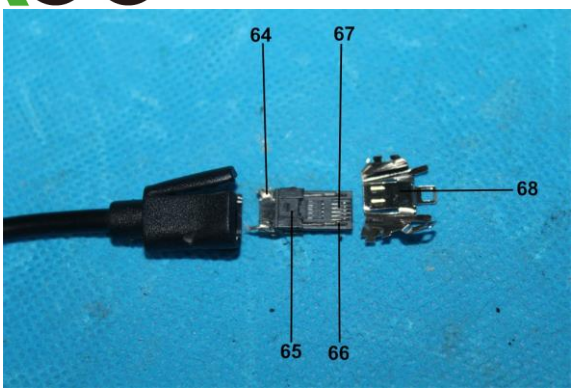



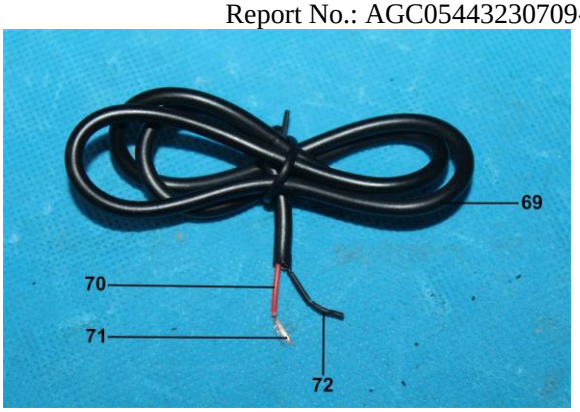



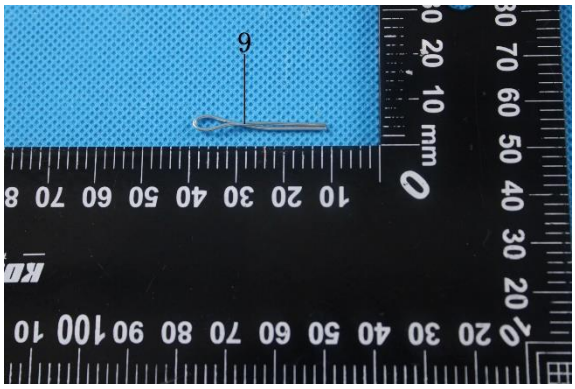



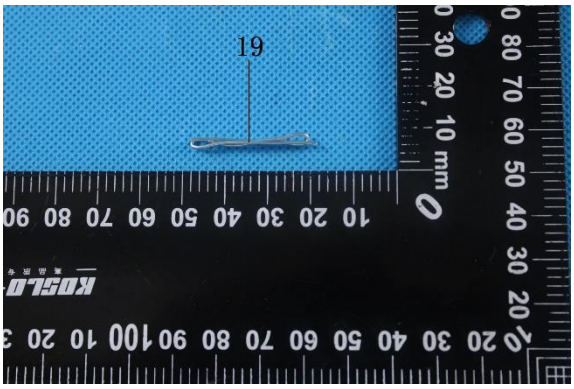



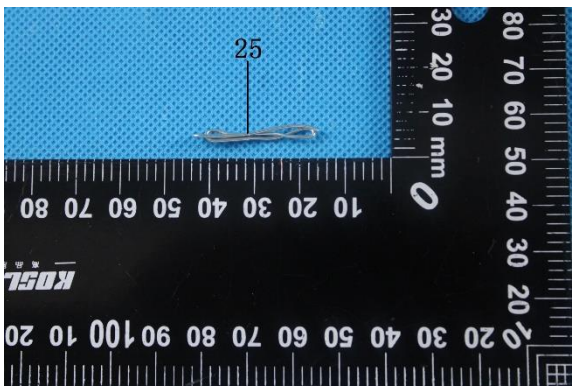



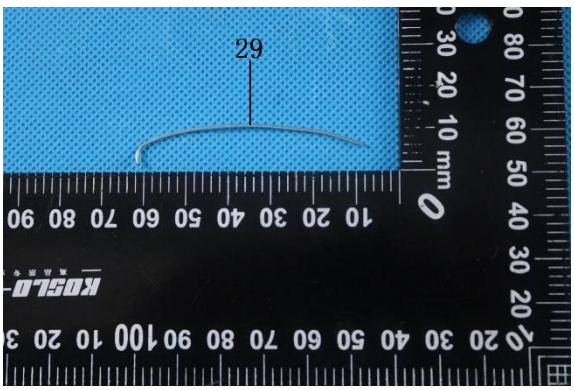


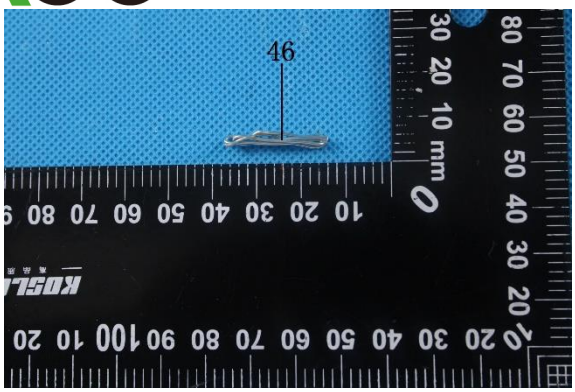



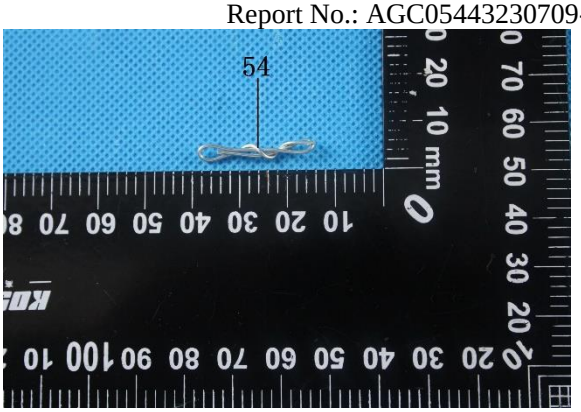



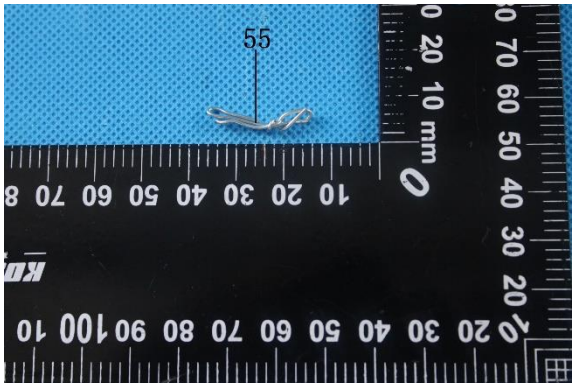






The photo of AGC05443230709-001 is for use only with the original report.

**Test Point Description**

| Test point | Test module | Test parts | Test point description |
|---|---|---|---|
| 10000mAh Power bank Mode: MO6863 | | | |
| 1 | --- | Outer shell | Black plastic shell |
| 2 | --- | | Grey rubber pad |
| 3 | --- | --- | Metal threaded ring |
| 4 | --- | --- | Silver screw |
| 5 | --- | --- | Metallic circlip |
| 6 | --- | USB plug | Black plastic plug |
| 7 | --- | | White plastic plug |
| 8 | --- | | Metal pin |
| 9 | --- | | Solder |
| 10 | --- | | Milk white inner glue |
| 11 | --- | | Black handle |
| 12 | --- | Wire rod | Black buckle |
| 13 | --- | | Black outer wire jacket |
| 14 | --- | | Enameled wire |
| 15 | --- | Micro plug | Micro metal plug |
| 16 | --- | | Grey plastic plug |
| 17 | --- | | Metal pin |
| 18 | --- | | Metallic pogopin |
| 19 | --- | | Solder |
| 20 | --- | Type-C plug | Type-C metal plug |
| 21 | --- | | Grey plastic plug |
| 22 | --- | | Metallic pogopin |
| 23 | --- | | Metal pin |
| 24 | --- | | PCB |
| 25 | --- | | Solder |
| 26 | --- | Lightning Plug | Lightning metal plug |
| 27 | --- | | White plastic plug |
| 28 | --- | | PCB |
| 29 | --- | | Solder |
| 30 | --- | | Chip capacitor |
| 31 | --- | | Chip resistor |
| 32 | --- | | Chip triode |
| 33 | --- | | IC body |
| 34 | --- | | Metallic pin with solder |
| 35 | --- | Enameled wire | Black thermistor |
| 36 | --- | | Enameled wire |
| 37 | Circuit board | Micro connector | Micro metal connector |
| 38 | | | Grey plastic joint |
| 39 | | Switch | Grey plastic switch |
| 40 | | | Metallic shell |
| 41 | | | Metallic shrapnel |

| | | | |
|---|---|---|---|
| 42 | | | White plastic base |
| 43 | | --- | Chip capacitor |
| 44 | | --- | Chip resistor |
| 45 | | --- | IC body |
| 46 | | --- | Metallic pin with solder |
| 47 | | Inductance | Black magnetic frame inductance |
| 48 | | | Enameled wire |
| 49 | | USB device | USB metal device |
| 50 | | | Grey plastic joint |
| 51 | | | Metal pin |
| 52 | | --- | Chip LED |
| 53 | | --- | PCB |
| 54 | | --- | Solder |
| 55 | --- | Battery | Solder |
| 56 | --- | | Black wire jacket |
| 57 | --- | | Red wire jacket |
| 58 | --- | | Conductor |
| Data cable | | | |
| 59 | --- | USB plug | Black handle |
| 60 | --- | | Solder |
| 61 | --- | | White plastic plug |
| 62 | --- | | Metal pin |
| 63 | --- | | USB metal device |
| 64 | --- | Micro plug | Solder |
| 65 | --- | | Black plastic plug |
| 66 | --- | | Metal clip |
| 67 | --- | | Metal pin |
| 68 | --- | | Micro metal plug |
| 69 | --- | Wire rod | Black outer wire jacket |
| 70 | --- | | Red wire jacket |
| 71 | --- | | Metal conductor |
| 72 | --- | | Black wire jacket |

Note: "---" = The test point exists alone in the sample and is not attached to the test module or test parts.

**Test Results:**

Note: N.D.=Not Detected (less than method detection limit), MDL = Method Detection Limit, 1mg/kg=0.0001%

**2011/65/EU (RoHS) and its amendment directive (EU) 2015/863**

**- Pb, Cd, Hg, $Cr^{6+}$, PBBs, PBDEs, DBP, BBP, DEHP, DIBP**

| Test Item | Test Method/ Instrument | MDL | Maximum Limit |
|---|---|---|---|
| Lead (Pb) | IEC 62321-3-1:2013/ XRF | / | 1000mg/kg |
| Cadmium (Cd) | | / | 100mg/kg |
| Mercury (Hg) | | / | 1000mg/kg |
| Total Chromium | | / | / |
| Total Bromine | | / | / |
| **Chemistry Method** | | | |
| Lead (Pb) | IEC 62321-5:2013/ ICP-OES | 2mg/kg | 1000mg/kg |
| Cadmium (Cd) | IEC 62321-5:2013/ ICP-OES | 2mg/kg | 100mg/kg |
| Mercury (Hg) | IEC 62321-4: 2013+A1:2017/ ICP-OES | 2mg/kg | 1000mg/kg |
| Non-metal: Hexavalent Chromium ($Cr^{6+}$) | IEC 62321-7-2:2017/ UV-Vis | 8mg/kg | 1000mg/kg |
| Metal: Hexavalent Chromium ($Cr^{6+}$) | IEC 62321-7-1:2015/ UV-Vis | 0.1μg/cm² | / |
| Polybrominated Biphenyls (PBBs)<br>-Monobromobiphenyl (MonoBB)<br>-Dibromobiphenyl (DiBB)<br>-Tribromobiphenyl (TriBB)<br>-Tetrabromobiphenyl (TetraBB)<br>-Pentabromobiphenyl (PentaBB)<br>-Hexabromobiphenyl (HexaBB)<br>-Heptabromobiphenyl (HeptaBB)<br>-Octabromobiphenyl (OctaBB)<br>-Nonabromodiphenyl (NonaBB)<br>-Decabromodiphenyl (DecaBB) | IEC 62321-6:2015/ GC-MS | Single 5mg/kg | Sum 1000mg/kg |
| PolybrominatedDiphenylethers (PBDEs)<br>-Monobromodiphenyl ether (MonoBDE)<br>-Dibromodiphenyl ether (DiBDE)<br>-Tribromodiphenyl ether (TriBDE)<br>-Tetrabromodiphenyl ether (TetraBDE)<br>-Pentabromodiphenyl ether (PentaBDE)<br>-Hexabromodiphenyl ether (HexaBDE)<br>-Heptabromodiphenyl ether (HeptaBDE)<br>-Octabromodiphenyl ether (OctaBDE)<br>-Nonabromodiphenyl ether (NonaBDE)<br>-Decabromodiphenyl ether (DecaBDE) | IEC 62321-6:2015/ GC-MS | Single 5mg/kg | Sum 1000mg/kg |
| Di-iso-butyl phthalate (DIBP) | IEC 62321-8:2017/ GC-MS | 50mg/kg | 1000mg/kg |
| Dibutyl phthalate (DBP) | | 50mg/kg | 1000mg/kg |
| Butylbenzyl phthalate (BBP) | | 50mg/kg | 1000mg/kg |
| Di-(2-ethylhexyl) Phthalate (DEHP) | | 50mg/kg | 1000mg/kg |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 1 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 2 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 3 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 4 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 5 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 6 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | IN | N.D. | |
| | | PBDEs | | N.D. | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 7 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 8 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 9 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 10 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 11 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 12 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 13 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 14 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 15 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | IN | N.D. | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 16 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 17 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 18 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | IN | N.D. | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 19 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 20 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | IN | N.D. | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 21 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 22 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 23 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | IN | N.D. | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 24 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | IN | N.D. | |
| | | PBDEs | | N.D. | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 25 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 26 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 27 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 28 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | IN | N.D. | |
| | | PBDEs | | N.D. | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 29 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 30 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 31 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 32 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 33 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 34 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 35 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 36 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 37 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 38 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 39 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 40 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 41 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | IN | N.D. | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 42 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 43 | Pb | | IN | 18475 | Conformity Exemption clause 7(c)-I |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 44 | Pb | | OL | / | Conformity Exemption clause 7(c)-I |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 45 | Pb | | IN | 19921 | Conformity Exemption clause 7(c)-I |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | IN | N.D. | |
| | | PBDEs | | N.D. | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 46 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 47 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 48 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 49 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 50 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 51 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 52 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 53 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | IN | N.D. | |
| | | PBDEs | | N.D. | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 54 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 55 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 56 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | 116 | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 57 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | 120 | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 58 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 59 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | 435 | |
| 60 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 61 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 62 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 63 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 64 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 65 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 66 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 67 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 68 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | IN | N.D. | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |

| Test point | Test Item | | X-ray Fluorescence Spectrometry (XRF) mg/kg | Wet Chemistry Method mg/kg | Conclusion |
|---|---|---|---|---|---|
| 69 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 70 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |
| 71 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | N/A | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | / | |
| | DBP | | N/A | / | |
| | BBP | | N/A | / | |
| | DEHP | | N/A | / | |
| 72 | Pb | | BL | / | Conformity |
| | Cd | | BL | / | |
| | Hg | | BL | / | |
| | $Cr(Cr^{6+})$ | | BL | / | |
| | Br | PBBs | BL | / | |
| | | PBDEs | | / | |
| | DIBP | | N/A | N.D. | |
| | DBP | | N/A | N.D. | |
| | BBP | | N/A | N.D. | |
| | DEHP | | N/A | N.D. | |

Remark: The samples of the following test points were submitted on August 09, 2023:9,19,25,29,46,54,55

| Element | Unit | Non-metal | Metal | Composite Material |
|---|---|---|---|---|
| Cd | mg/kg | BL≤70-3σ<X <130+3σ≤OL | BL≤70-3σ<X <130+3σ≤OL | BL≤50-3σ<X <150+3σ≤OL |
| Pb | mg/kg | BL≤700-3σ<X <1300+3σ≤OL | BL≤700-3σ<X <1300+3σ≤OL | BL≤500-3σ<X <1500+3σ≤OL |
| Hg | mg/kg | BL≤700-3σ<X <1300+3σ≤OL | BL≤700-3σ<X <1300+3σ≤OL | BL≤500-3σ<X <1500+3σ≤OL |
| Cr | mg/kg | BL≤700-3σ<X | BL≤700-3σ<X | BL≤500-3σ<X |
| Br | mg/kg | BL≤300-3σ<X | N/A | BL≤250-3σ<X |

Remark:

(1) BL= Below Limit, OL= Over limited, IN = Inconclusive, Scanning by XRF and detected by chemical method, N/A = Not applicable.

(2) 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.

(3) The XRF scanning test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

(4) Boiling-water-extraction:(X represents the results of the tested sample)

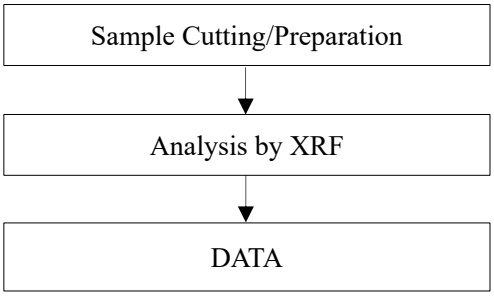
| Number | Colorimetric result (Cr(VI) concentration) | Judgement |
|---|---|---|
| 1 | X＜0.1μg/cm² | Negative |
| 2 | 0.1μg/cm²≤X≤0.13μg/cm² | Uncertainty |
| 3 | X＞0.13μg/cm² | Positive |

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.

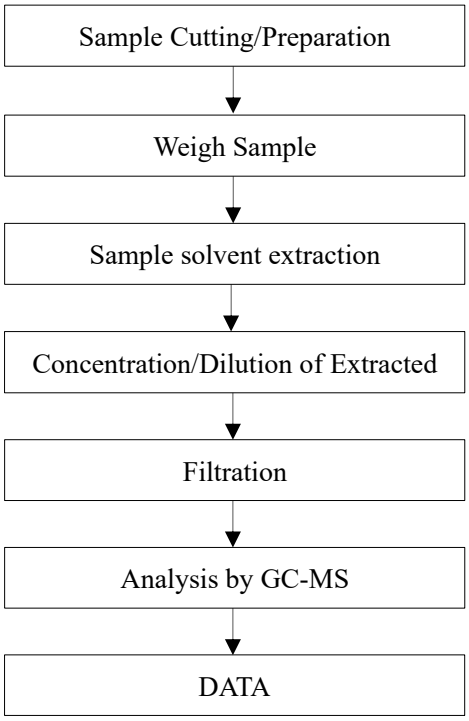
(5) Disclaimers: This XRF Scanning report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF scanning report will differ based on various 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.

| Exemption clause | Exemption |
|---|---|
| 7(c)-I | Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound |

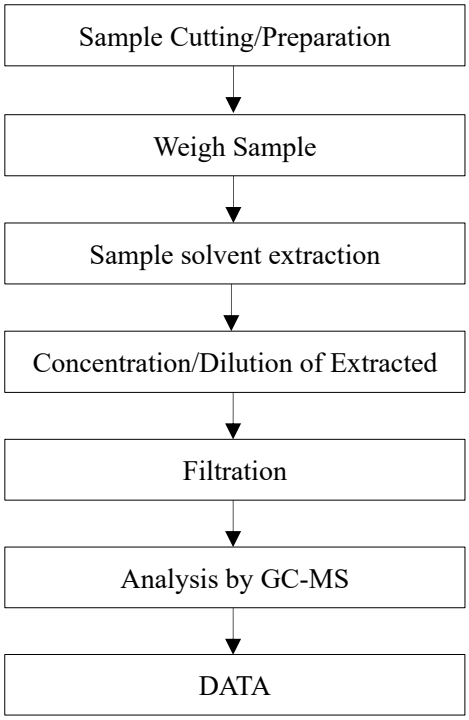
## Test Flow Chart of XRF



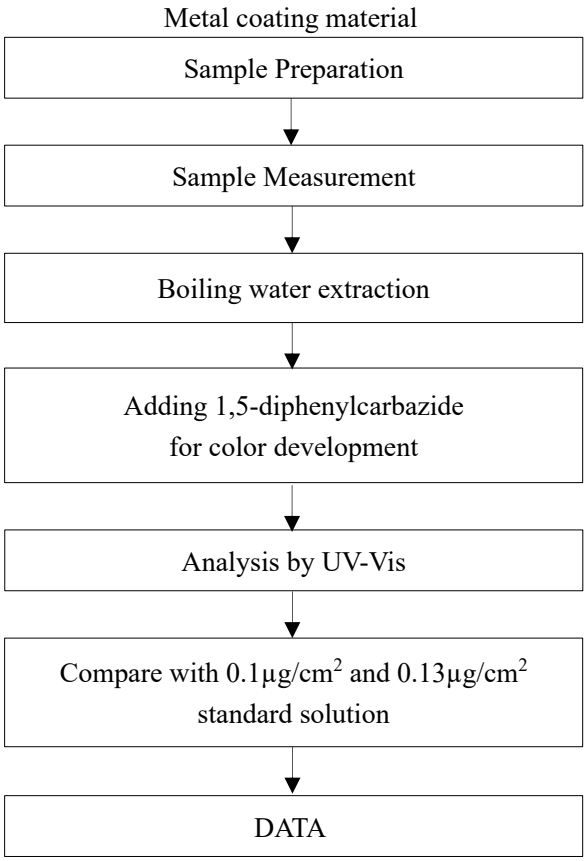

## Test Flow Chart of Phthalates



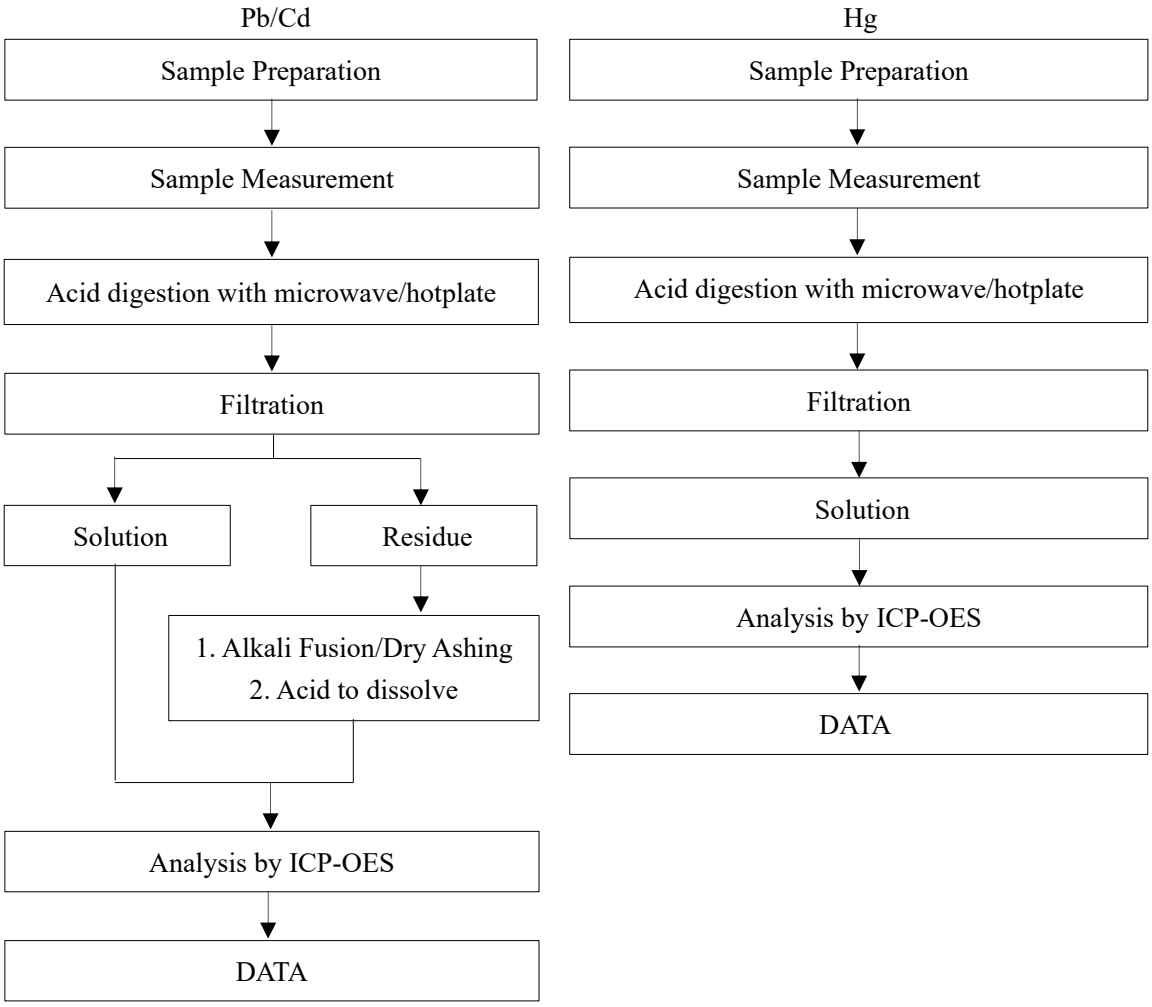
## Test Flow Chart of PBBs and PBDEs



## Test Flow Chart of Hexavalent Chromium ($Cr^{6+}$)



**Test Flow Chart of Lead, Cadmium and Mercury**




These sample were dissolved totally by pre-conditioning method according to above flow chart

# Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Std & Tech Co., Ltd. (the "Company") solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the "Clients").
2. Any report issued by Company as a result of this application for testing services (the "Report") shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3.The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7.Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

*** End of Report ***