



WNLTEK

TEST REPORT

Report No	WTF22F03032421R2C
Applicant	Mid Ocean Brands B.V.
Address	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	114276
Sample Name	Bamboo top wireless charger
Sample Model	MO6563
Date of Receipt sample :	2022-03-02 & 2022-05-25
Testing period	2022-03-02 to 2022-03-18 & 2022-05-25 to 2022-05-27
Date of Issue	2022-06-06
Test Result	Refer to next page (s)
Note	As per client's requirement, the results from No.1 to No.3, No.18 to No.38 were quoted from Report No.

WTF22F03032421C

Prepared By: Waltek Testing Group (Foshan) Co., Ltd.

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

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1/13

WT-F-510-3003-05-A

Test Conclusion



3

Test	Requ	ested	 	 :

Test Method :

In accordance with the RoHS Directive 2011/65/EU and its amendment (EU) No. 2015/863.

- 1) With reference to IEC 62321-2:2013, 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.

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)

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2/13



Sample Photo(s):







Test Results:

1. Lead, Mercury, Cadmium, Hexavalent Chromium, PBBs and PBDEs

Part	Mercury, Caumum, nexavalent of			ult of)		at .	Result of Wet Chemical
No.	Part Description	Cd	Pb	Hg	Cr	Br	Testing (mg/kg)
1-	White plastic shell	BL	BL	BL	BL	IN	PBBs : ND PBDEs : ND
2	Transparent plastic sheet	BL	BL	BL	BL	BL	NA
3	Beige wood shell	BL	BL	BL	BL	BL	NA
4	Red plastic wire covering	BL	BL	BL	BL	BL	NA
5	Coppery metal wire	BL	BL	BL	BL	BL	NA
6	Green plastic wire covering	BL	BL	BL	BL	BL	NA
7	Black plastic wire covering	BL	BL	BL	BL	BL	NA
8	White plastic wire covering	BL	BL	BL	BL	BL	NA
9	White plastic wire jacket	BL	BL	BL	BL	BL	NA MASS
10	White plastic jacket of USB plug	BL	BL	BL	BL	BL	NA NE SO
11	Silvery metal shell of USB plug	BL	BL	BL	BL	BL	set which NA the work
12	White plastic sheet of USB plug	BL	BL	BL	BL	BL	A NAK NAK
13	Silvery metal pin of USB plug	BL	BL	BL	IN	BL	Cr ⁶⁺ : Negative
14	Solder of USB plug	BL	BL	BL	BL	BL	NA STA
15	Silvery metal shell of plug	BL	BL	BL	IN	BL	Cr ⁶⁺ : Negative
16	Black plastic sheet of plug	BL	BL	BL	BL	BL	NA
17	Golden metal pin of plug	BL	BL	BL	BL	BL	NA
18	White fibrous wire	BL	BL	BL	BL	BL	NA
19	Coppery metal winding	BL	BL	BL	BL	BL	NA

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Part	MIC WIT WIT STAT	, etc	Res	ult of)	KRF	S. C.	Result of Wet Chemical
No.	Part Description	Cd	Pb	Hg	Cr	Br	Testing (mg/kg)
20	Yellow transparent plastic adhesive tape	BL	BL	BL	BL	BL	NA
21	Dark grey magnetic sheet	BL	BL	BL	BL	BL	NA
22	Black sponge adhesive sheet	BL	BL	BL	BL	BL	NA
23	Transparent plastic adhesive sheet	BL	BL	BL	BL	BL	NA
24	Silvery metal screw	BLS	BL	BL	BL	BL	NA
25	Chip LED	BL	BL	BL	BL	BL	NA
26	Chip IC	BL	BL	BL	BL	BL	NA
27	Silvery metal shell of socket	BL	BL	BL	BL	BL	NA
28	Silvery-golden metal pin of socket	BL	BL	BL	BL	BL	NA
29	Black plastic sheet of socket	BL	BL	BL	BL	BL	NA
30	Chip resistor	BL	BL	BL	BL	BL	NA
31	Chip IC	BL	BL	BL	BL	BL	NA
32	Chip resistor	BL	BL	BL	BL	BL	NA
33	Chip diode	BL	BL	BL	BL	BL	NA
34	Green PCB	BL	BL	BL	BL	BL	NA
35	Chip capacitor	BL	BL	BL	BL	BL	NA
36	Solder	BL	BL	BL	BL	BL	NA
37	Red body of capacitor	BL	BL	BL	BL	BL	NA
38	Silvery metal pin of capacitor	BL	BL	BL	BL	BL	NA
39	White plastic jacket of plug	BL	BL	BL	BL	BL	NA

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5 / 13



Part	with which with the	Result of XRF				S.C.	Result of Wet Chemical
No.	Part Description	Cd	Pb	Hg	Cr	Br	Testing (mg/kg)
40	Solder of plug	BL	BL	BL	BL	BL	A STATE NA STATE

Remark:

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	$BL \le (70-3\sigma) < IN < (130+3\sigma)$ $\le OL$	$BL \le (70-3\sigma) < IN < (130+3\sigma)$ $\le OL$	$LOD < IN < (150+3\sigma) \le OL$
Pb	BL ≤ (700-3σ) < IN < (1300+3σ) ≤ OL	BL ≤ (700-3σ) < IN < (1300+3σ) ≤ OL	BL ≤ (500-3σ) < IN < (1500+3σ) ≤ OL
Hg	BL ≤ (700-3σ) < IN < (1300+3σ) ≤ OL	BL ≤ (700-3σ) < IN < (1300+3σ) ≤ OL	BL ≤ (500-3σ) < IN < (1500+3σ) ≤ OL
Cr	BL ≤ (700-3σ) < IN	BL ≤ (700-3σ) <in< td=""><td>BL ≤ (500-3σ) < IN</td></in<>	BL ≤ (500-3σ) < IN
Br	BL ≤ (300-3σ) < IN	5 STA STAR MITTER AND	BL ≤ (250-3σ) < 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, μ g/cm²= 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 S	Hg	C	r ⁶⁺	PBB	PBDE
Units 🖑	mg/kg	mg/kg	mg/kg	mg/kg	µg/cm ²	mg/kg	mg/kg
LOQ	- 20-	<u> </u>	2	8	0.1	5	5

The LOQ for single compound of PBBs and PBDEs is 5mg/kg, LOQ of Cr^{6+} for polymer and composite sample is 8mg/kg and LOQ of Cr^{6+} for metal sample is $0.1\mu g/cm^2$.

(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)

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(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 Cr^{6+} coating, the detected concentration in boiling water extraction solution is less than 0.10ug/cm².

Positive = Presence of Cr^{6+} coating, the detected concentration in boiling water extraction solution is greater than 0.13ug/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.



2. Phthalates:

Serial	MALL MALL MARK WIT	5	Resul	t (mg/kg)	
No.	Part No.	DBP	BBP	DEHP	DIBP
T01	1+2+9+14 [△]	<50	<50	<50	<50
T02	3	<50	<50	<50	<50
T03	at the All with	<50	<50	<50	<50
T04	6	<50	<50	<50	<50
T05	- 10 70 50 3	<50	<50	<50	<50
T06	1 8 W W	<50	<50	<50	<50
T07	9	<50	<50	<50	<50
T08	10 JN 31	<50	<50	<50	<50
T09	12+16 [△]	<50	<50	<50	<50
T10	13 July 13	<50	<50	<50	<50
T11	18	<50	<50	<50	<50
T12	20	<50	<50	<50	<50
T13	21+25+26+30+31 [△]	<50	<50	<50	<50
T14	22	<50	<50	<50	<50
T15	23	<50	<50	<50	<50
T16	29	<50	<50	<50	<50
T17	32+33+34+35+37 [△]	<50	<50	<50	<50
T18	39	<50	<50	<50	<50

Note:

- (1) "<" = less than
- (2) mg/kg = milligram per kilogram= ppm
- (3) Abbreviation:

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

(4) RoHS requirement

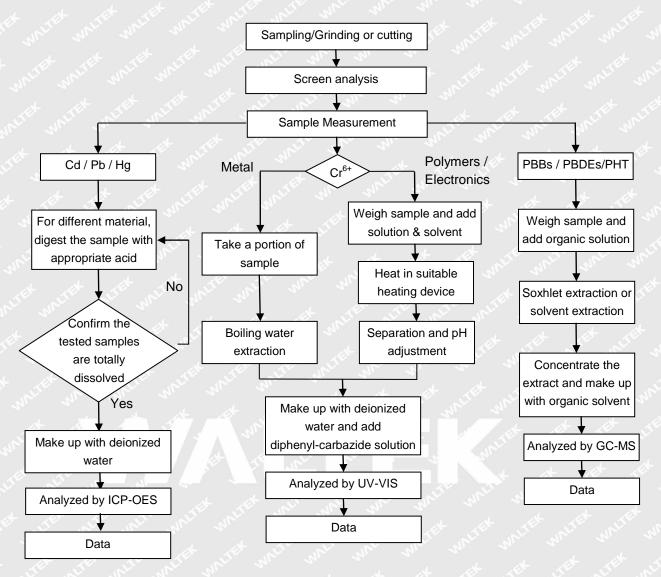
Restricted Substances	Limits
Dibutyl phthalate (DBP)	0.1% (1000 mg/kg)
Benzyl butyl phthalate (BBP)	0.1% (1000 mg/kg)
Di(2-ethylhexyl) phthalate (DEHP)	0.1% (1000 mg/kg)
Di-iso-butyl phthalate (DIBP)	0.1% (1000 mg/kg)

(5) "△"= As client's requirement, the testing was conducted based on mixed components. Results are calculated by the minimum weight of mixed components.



121

Measurement Flowchart:

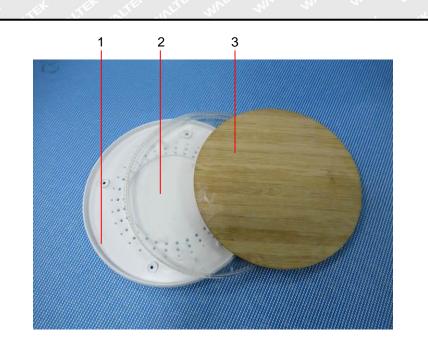


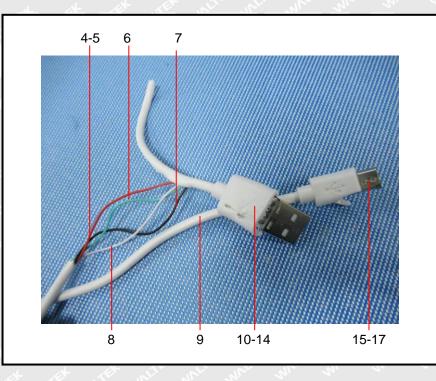


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Photograph(s) of parts tested:

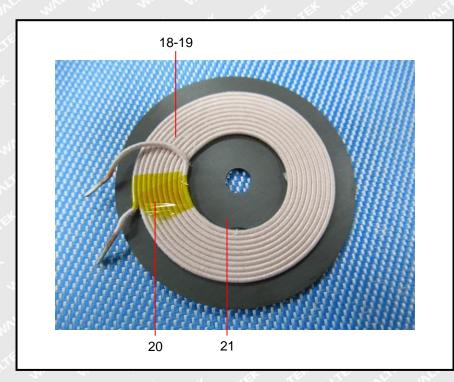


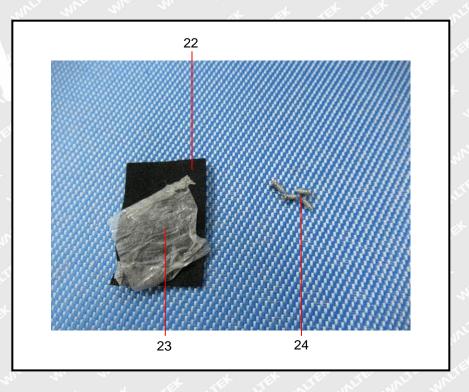


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3

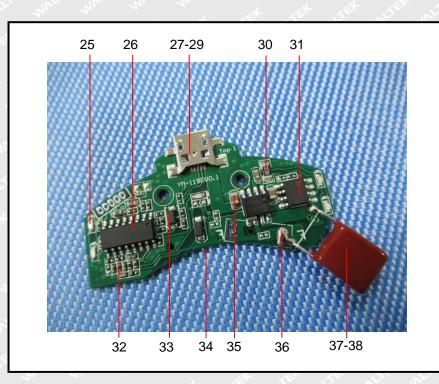


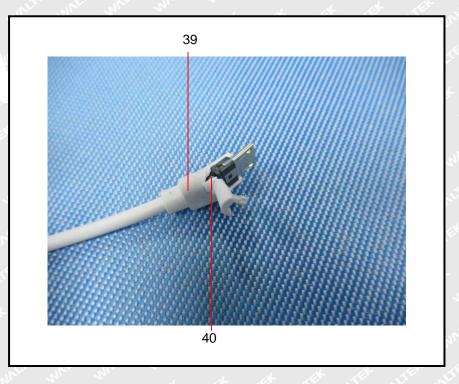


11/13



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Remarks:

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