

Test Report

Report No. : AGC05443231001-001

- **SAMPLE NAME** : Mug warmer wireless charger
- MODEL NAME : MO2154
- **APPLICANT** : MID OCEAN BRANDS B.V
- **STANDARD(S)** : Please refer to the following page(s).
- DATE OF ISSUE : Oct. 12, 2023

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





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

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

Sample Name	:	Mug warmer wireless charger
Model	:	MO2154
Vendor code	:	109979
Country of Origin	:	CHINA
Country of Destination	:	EUROPE
Sample Received Date	:	Oct. 07, 2023
Testing Period	:	Oct. 07, 2023 to Oct. 12, 2023

Test Requested:

Conclusion

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.
As specified by client, to determine the Pentachlorophenol (PCP) content in the submitted samples reference to Regulation(EU) 2019/1021.
As specified by client, to determine the Formaldehyde Release content in the submitted sample(s).

Approved by : Jessie ling

Liangdan, Jessie.Liang Technical Director



Report Revise Record

Report Version	Issued Date	Valid Version	Notes
/	Oct. 12, 2023	Valid	Initial release



Test Point Description

Test point	Test module	Test parts	Test point description
Mug warmer wire	less charger Model:	MO2154	
1			Wooden shell
2			White glue
3			Hot melt adhesive
4			Black metal sheet
5	Outer shell		FPC
6			Tin solder
7		Heating pad	Black wire jacket
8			Red wire jacket
9			Wire core
10			Brown tape
11		Induction coil	Grey ceramics
12		induction con	Coil
13			Enameled wire
14			Black thermistor
15		Thermistor	Enameled wire
16			Black foam with adhesive
17			TYPE-C metal joint
18		Type-C connector	Grey plastic joint
19			Meta contact pin
20		Capacitance	Red plastic shell
21		Capacitance	Thin film
22	_	Toggle switch	Black plastic toggle switch
23			Metal shell
24	_		Metal jump ring
25	Circuit board		Epoxy resin board
26	_		Chip capacitor
27			Chip resistor
28			Chip diode
29			Chip triode
30			IC body
31	_		Soldered metal pins
32	_		PCB board
33			Tin solder
USB line	1		
34			USB metal plug
35			White plastic plug
36		USB plug	Meta contact pin
37			Black handle
38			Tin solder
39			Type-C metal plug
40			Grey plastic plug
41		— Type-C plug	Meta contact pin
42		JI 1 0	Metal thimble
43			PCB board
44			Tin solder



45		Chip resistor
46		Black outer wire jacket
47		Black wire jacket
48	 Wire rod	Green wire jacket
49	 whe loa	Red wire jacket
50		White wire jacket
51		Wire core

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

Test Result:

(Test Method/ Instrument/ MDL and Limit: See Appendix)

1. Test Result of RoHS

Test				Т	est resu	lt (mg/kg	g)				C I I
point	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
1	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
2	N.D.	N.D.	N.D.	542	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
3	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
4	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
5	N.D.	N.D.	N.D.	N.D.*	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
6	354	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
7	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
9	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
10	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
11	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
12	N.D.	N.D.	N.D.	N.D.	234	234	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
13	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
14	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
15	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
16	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
17	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
18	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
19	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
20	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
21	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity

Test				T	lest resu	lt (mg/kg	g)				a l i
point	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
22	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
23	316	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
24	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
25	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
26	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
27	N.D.	N.D.	N.D.	N.D.*	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
28	N.D.	N.D.	N.D.	N.D.*	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
29	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
31	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
32	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
33	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
34	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
35	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
36	347	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
37	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
38	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
39	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
40	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
41	609	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
42	N.D.	N.D.	N.D.	N.D.*	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
43	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
44	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity
45	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
46	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
47	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
48	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
49	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity
50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.*	N.D.*	N.D.*	N.D.*	Conformity

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Test	Test result (mg/kg)							Conclusion			
point	Pb	Cd	Hg	Cr ⁶⁺	PBBs	PBDEs	DIBP	DBP	BBP	DEHP	Conclusion
51	N.D.	N.D.	N.D.	N.D.	N/A	N/A	N/A	N/A	N/A	N/A	Conformity

Note:

mg/kg = milligram per kilogram

MDL = Method Detection Limit

N/A= Not applicable

 $\mu g/cm^2 = microgram per square centimeter$

N.D.=Not Detected (less than method detection limit)

Remark:

- *denotes as reported result(s) was (were) performed by wet chemistry method. Others were screened by XRF. For XRF screening, the result(s) of Cr VI was (were) reported as total chromium and the result(s) of PBBs and PBDEs was (were) reported as total bromine. Also, the XRF result(s) may be different to the actual content based on various factors including, but not limit to, sample size, thickness, area, nonuniformity composition, surface flatness.
- 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.

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
1	The sample solution is <the 0,10="" <math="">\mug/cm² equivalent comparison standard solution</the>	The sample is negative for Cr(VI) –The Cr(VI)concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
2	The sample solution is \geq the 0,10 µg/cm ² and \leq the 0,13 µg/cm ² equivalent comparison standard solutions	The result is considered to be inconclusive – Unavoidable coating variations may influence the determination.
3	The sample solution is > the 0,13 μ g/cm ² equivalent comparison standard solution	The sample is positive for $Cr(VI)$ – The $Cr(VI)$ concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain $Cr(VI)$.

- Boiling-water-extraction:

- 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.



Appendix:

Test Item	Test Method/ Instrument	MDL	Maximum Limit
X-ray Fluorescence Spectrometry(XRF))		
Lead (Pb)		200mg/kg	1000mg/kg
Cadmium (Cd)		50mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-3-1:2013 / XRF	200mg/kg	1000mg/kg
Total Chromium		200mg/kg	/
Total Bromine		200mg/kg	/
Wet Chemistry Method		00	
Lead (Pb)	IEC 62321-5:2013/ ICP-OES	10mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013/ ICP-OES	10mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4: 2013+A1:2017/ ICP-OES	10mg/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⁺) Polybrominated Biphenyls (PBBs)	IEC 62321-7-1:2015/ UV-Vis	$0.1 \mu g/cm^2$	/
-Monobromobiphenyl (MonoBB) -Dibromobiphenyl (DiBB) -Tribromobiphenyl (TriBB) -Tetrabromobiphenyl (TetraBB) -Pentabromobiphenyl (PentaBB) -Hexabromobiphenyl (HexaBB) -Heptabromobiphenyl (HeptaBB) -Octabromobiphenyl (OctaBB) -Nonabromodiphenyl (NonaBB) -Decabromodiphenyl (DecaBB)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
PolybrominatedDiphenylethers (PBDEs) -Monobromodiphenyl ether (MonoBDE) -Dibromodiphenyl ether (DiBDE) -Tribromodiphenyl ether (TriBDE) -Tetrabromodiphenyl ether (TetraBDE) -Pentabromodiphenyl ether (PentaBDE) -Hexabromodiphenyl ether (HexaBDE) -Heptabromodiphenyl ether (MetaBDE) -Octabromodiphenyl ether (OctaBDE) -Nonabromodiphenyl ether (NonaBDE) -Decabromodiphenyl ether (DecaBDE)	IEC 62321-6:2015/ GC-MS	Single 5mg/kg	Sum 1000mg/kg
Di-iso-butyl phthalate (DIBP)		50mg/kg	1000mg/kg
Dibutyl phthalate (DBP)		50mg/kg	1000mg/kg
Butylbenzyl phthalate (BBP)	IEC 62321-8:2017/ GC-MS	50mg/kg	1000mg/kg
Di-(2-ethylhexyl) Phthalate (DEHP)		50mg/kg	1000mg/kg



2. Test Result of Pentachlorophenol (PCP) content

Test Item	Pentachlorophenol (PCP)				
Limit(mg/kg)	≤5				
MDL(mg/kg)	5				
Test Method/ Instrument	EPA 3550C:2007 & EPA 8270E:2018/ GC-MS				

Test point	Test point Test result (mg/kg)	
Test point	Pentachlorophenol (PCP)	Conclusion
1-1	N.D.	Conformity

3. Test Result of Formaldehyde Release

Test Item(s)	Formaldehyde Release
Limit (Client's Requirement) (mg/kg)	80
MDL (mg/kg)	1
Test Method/ Equipment	EN717-3:1996/ UV-Vis

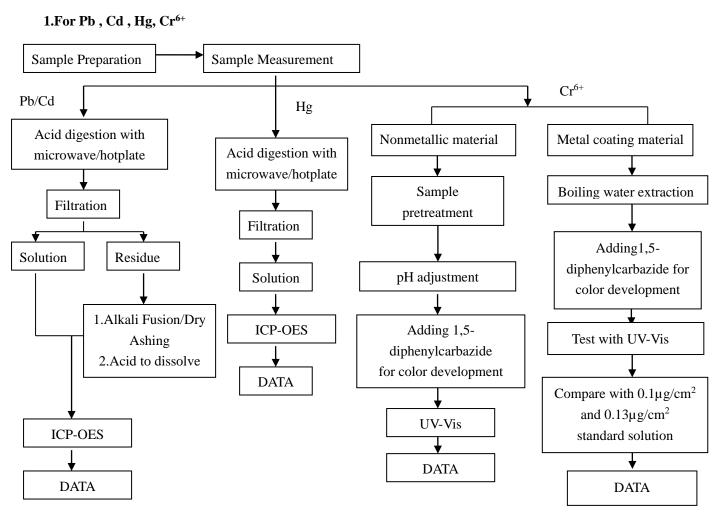
Test point	Test result (mg/kg)	Conclusion
	Formaldehyde Release	
1-1	14	Conformity

Note:

mg/kg = milligram per kilogram MDL = Method Detection Limit N.D.=Not Detected (less than method detection limit)

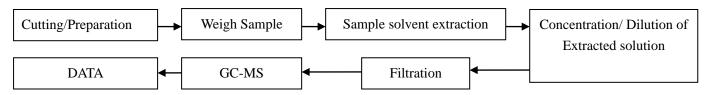






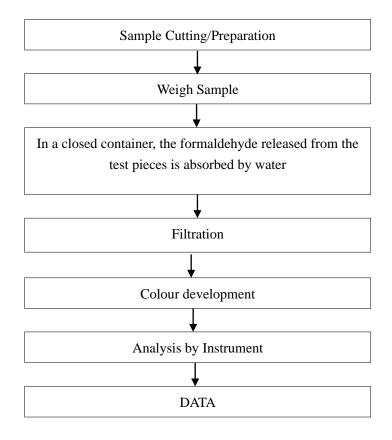
These sample were dissolved totally by pre-conditioning method according to above flow chart (Cr^{6+} test method excluded)

2.For PBBs, PBDEs, DBP, BBP, DEHP, DIBP, PCP



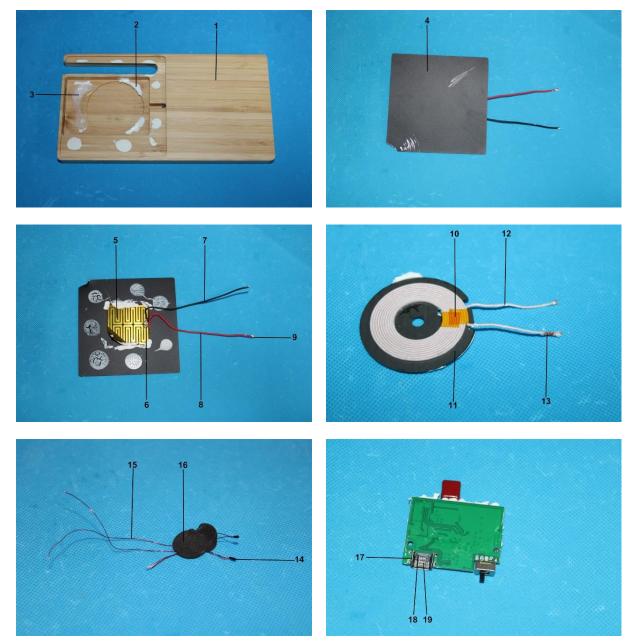


3. For Formaldehyde Release



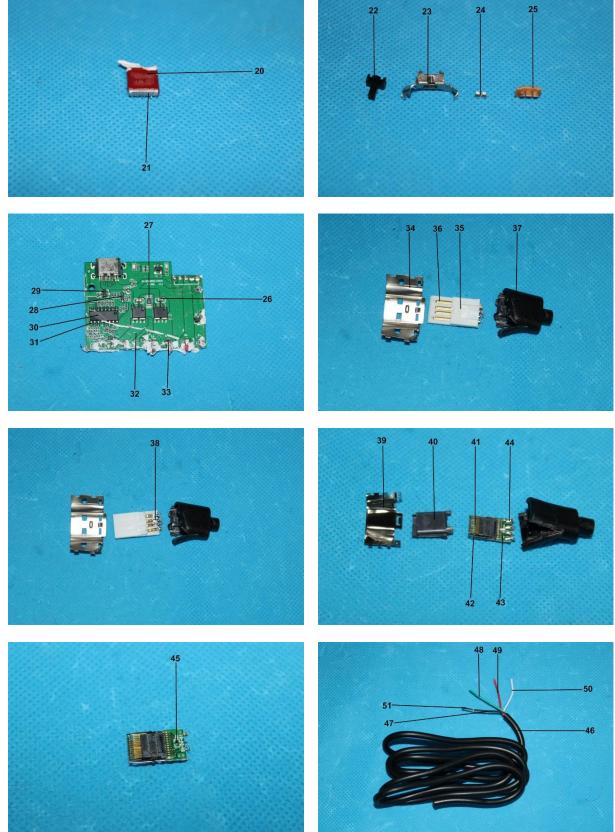


The photo of the sample





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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").

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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.