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Verification Report

Applicant : Mid Ocean Brands B.V.

Address 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong

Kong

Report on the submitted samples said to be:

Sample Name(s) : Wireless charger

Trade Mark : N/A

Part No. : MO6399, MO6392, MO6453

Sample Received Date : November 09, 2021 November 07, 2022

Testing Period : November 09, 2021 ~ December 15, 2021

: November 07, 2022 ~ November 11, 2022

Date of Report : November 11, 2022

1. F&G, 23/F, Technology Building, Quanzhi Science and Technology

Innovation Park, Industrial Building, Maozhoushan Industrial Park,

Matian Street, Guangming District, Shenzhen, Guangdong, China

Testing Location : Houting, Shajing Street, Bao'an District, Shenzhen, Guangdong, China

2. 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community,

Results : Please refer to next page(s).

TEST REQUEST	CONCLUSION
As specified by client, based on the performed tests on submitted sample, the result of	
Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, Dibutyl Phthalate(DBP), Butylbenzyl Phthalate(BBP), Di-2-ethylhexyl	PASS
Phthalate(DEHP) and Diisobutyl phthalate(DIBP) content comply with the limits set by	THE TESTING LAB
RoHS Directive 2011/65/EU with amendment (EU) 2015/863.	, res

Signed for and on behalf of LCS

Young/Laboratory Manager





Remark:

Testing Date	Testing Location
November 09, 2021 ~ December 15, 2021	F&G, 23/F, Technology Building, Quanzhi Science and Technology Innovation Park, Industrial Building, Maozhoushan Industrial Park, Houting, Shajing Street, Bao'an District, Shenzhen, Guangdong, China
November 07, 2022 ~ November 11, 2022	901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China















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Shenzhen LCS Compliance Testing Laboratory Ltd.

Add: 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community, Matian Street, Guangming District, Shenzhen, Guangdong, China



Results:

A. EU RoHS Directive 2011/65/EU and its amendment directives

<u>Test method:</u> With reference to IEC 62321-1:2013&IEC 62321-2:2021&IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Sample	Sample	Results						Date of sample	
No.	Description	Cd	Pb	Hg	Cr▼		r▼	submission/	
						PBBs	PBDEs	Resubmission	
1	Yellow wood chips	BL	BL	BL	BL	BL	BL	2021-11-08	
2	Black double-sided tape	BL	BL	BL	BL	BL	BL	2021-11-08	
3	Black Gel	BL	BL	BL	BL	BL	BL	2021-11-08	
4	White plastic pipe	BL	BL	BL	BL	BL	BL	2021-11-08	
5	White cotton thread	BL	BL	BL	BL	BL	BL	2021-11-08	
6	Copper wire	BL	X	BL	BL	/	/	2021-11-08	
7	Yellow paper	BL	BL	BL	BL	BL	BL	2021-11-08	
8	Black ceramic sheet	BL	BL	BL	BL	BL	BL	2021-11-08	
9	Yellow tape	BL	BL	BL	BL	BL	BL	2021-11-08	
10	Silver sheet metal	BL	BL	BL	BL	/	/	2021-11-08	
11	Black plastic sheet	BL	⊕ BL	BL	BL	BL	BL	2021-11-08	
12	Silver metal needle	OL	Lab X	BL	BL	sting Vab	/	2021-11-08	
13	Grey capacitance	BL	BL	BL	BL	BL	BL	2021-11-08	
14	Black IC	BL	BL	BL	BL	BL	BL	2021-11-08	
15	Brown capacitor	BL	BL	BL	BL	BL	BL	2021-11-08	
16	Tin solder	BL	BL	BL	BL	/	/	2021-11-08	
17	light-emitting diode	BL	BL	BL	BL	BL	BL	2021-11-08	
18	Tin solder	BL	BL	BL	BL	/	/	2021-11-08	
19	Chip resistor	BL	BL	BL	BL	BL	BL	2021-11-08	
20	Black IC	BL	BL	BL	BL	BL	BL	2021-11-08	
21	Black capacitor	BL	BL	BL	BL	BL	BL	2021-11-08	
22	PCB board	BL	BL	BL	BL	X	X cs	2021-11-08	
23	White plastic pad	BL	BL	BL	BL	BL	BL	2021-11-08	
24	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-11-08	
25	Silver metal screw	BL	OL	BL	BL	/	/	2021-11-08	
26	Transparent plastic pipe	BL	BL	BL	BL	BL	BL	2021-11-08	
27	Tin solder	BL	BL	BL	BL	/	/	2021-11-08	
28	Tin solder	BL	BL	BL	BL	/	/	2021-11-08	
29	PCB board	BL	BL	BL	BL	X	X	2021-11-08	
30	Yellow wood chips	BL	BL	BL	BL	BL	BL	2021-11-08	



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立河	C I VEL	Results Resting Land					Date of sample	
Sample No.	Sample Sample No. Description		Pb	Hg Cr▼		Br▼		submission/
110.	Description	Cd	PD	Hg	Cr	PBBs	PBDEs	Resubmission
31	White soft plastic	BL	BL	BL	BL	BL	BL	2021-11-08
32	Silver sheet metal	BL	X	BL	X	/	/	2021-11-08
33	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-11-08
34	Silver metal needle	BL	OL	BL	BL	/	/	2021-11-08
35	White plastic wire skin	BL	BL	BL	BL	BL	BL	2021-11-08
36	Black plastic wire skin	BL	BL	BL	BL	BL	BL	2021-11-08
37	White plastic wire skin	BL	BL	BL	BL	BL	BL	2021-11-08
38	Green plastic wire cover	BL	BL	BL	BL	BL	BL	2021-11-08
39	Red plastic thread cover	BL	BL	BL	BL	BL	BL	2021-11-08
40	Copper wire	BL	OL	BL	BL	/	/	2021-11-08
41	PCB board	BL	BL	BL	BL	X	X	2021-11-08
42	Black soft plastic	BL	BL	BL	BL	BL	BL	2022-11-09
43	Black plastic shell	BL	BL	BL	BL	BL	BL	2022-11-09

Note:

1. Results were obtained by XRF for primary screening, 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 below warning value according to IEC 62321-3-1:2013(Unit: mg/kg).

Element	Polymers	Metals	Composite material
Cd	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<></td></x<(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>
Pb	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Cr	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<>
Br	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<>

Remark:

- BL= Below Limit
- OL= Over Limit
- X= The range of needing to do further testing
- 3σ = The reproducibility of analytical instruments
- N/A= Not applicable
- LOD= Detection limit
- 2. The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- 3. The maximum permissible limit is quoted from the document RoHS Directive 2011/65/EU with amendment (EU) 2015/863.



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4. ▼=For restricted substances PBBs and PBDEs, the results show the total Br content, the restricted substance was Cr(VI), and the results showed the total Cr content.

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 Lange (5)
Polybrominated diphenylethers(PBDEs)	1000 IIII Lauren
Dibutyl Phthalate(DBP)	1000
Butylbenzyl Phthalate(BBP)	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	1000
Diisobutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening 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 screening 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. EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 on Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, DBP, BBP, DEHP & DIBP content

Test method:

Lead(Pb) & Cadmium(Cd) Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES) or Atomic absorption spectrometer (AAS).

Mercury(Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES).

Hexavalent Chromium(Cr(VI)) Content:

With reference to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, analysis was performed by UV-visible spectrophotometer (UV-Vis).

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

Phthalates(DBP, BBP, DEHP &DIBP) Content:

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

1) The test results of Lead(Pb) & Cadmium(Cd)

1) The test results of Lead	l(Pb) & Cadmiun	n(Cd)					
Tested Items	MDL	7 Par	Results (mg/kg)				
	(mg/kg)	(6)	(12)	(25)	(32)	(mg/kg)	
Lead(Pb) Content	5	N.D.	N.D.	N.D.	7	1000	

Tested Items	MDL	Res (mg	Limit	
1 000000 1000000	(mg/kg)	(34)	(40)	(mg/kg)
Lead(Pb) Content	5	39835#1	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg) (12)	Limit (mg/kg)
Cadmium(Cd) Content	5	N.D.	100

2) The test results of Hexavalent Chromium(Cr(VI)(for coating on metal)

Tested Items	MDL (μg/cm²)	Results (μg/cm²) (32)	Limit (μg/cm²)
Hexavalent Chromium(Cr(VI)) Content★	0.10 (LOQ)	N.D.	1000



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3) The test results of Phthalates(DBP, BBP, DEHP &DIBP)

Tested Items	MDL (mg/kg)	Results (mg/kg) 1+2+3+4+5+7	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg) 8+9+11+13+14+15	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000
古讯位 Manalab 古讯位 Manalab		古讯证 Man Lab	一一时间

Tested Items	MDL (mg/kg)	Results (mg/kg) 17+19+20+21+22+23	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items STESTING Lab	MDL (mg/kg)	Results (mg/kg) 24+26+30+33+36+37	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000



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LCS TOST	MDL	Results (mg/kg)	Limit
Tested Items	(mg/kg)	38+39	(mg/kg)
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

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CA STA 1000	-call By	分		~m11	BG (分
Tested Items STesting Lab	MDL	Lab	Results (mg/kg)	ST LCS Testi	Limit
Tested Items	(mg/kg)	31	35	41	(mg/kg)
Dibutyl Phthalate(DBP) Content	100	N.D.	N.D.	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	100	N.D.	N.D.	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	100	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP) Content	100	N.D.	N.D.	N.D.	1000

Tested Items	MDL	Res (mg	Limit	
LCS Testing LCS Testing	(mg/kg)	42 resting	43	(mg/kg)
Dibutyl Phthalate(DBP) Content	100	N.D.	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	100	N.D.	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	100	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP) Content	100	N.D.	N.D.	1000





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4) The test results of PBBs & PBDEs

Tested Items	MDL		Results (mg/kg)		Limit	
	(mg/kg)	(22)	(29)	(41)	(mg/kg)	
Polybrominated Biphenyls(PBBs) Conte	nt					
Monobromobiphenyl	5	N.D.	N.D.	N.D.	/	
Dibromobiphenyl	5	N.D.	N.D.	N.D.	/	
Tribromobiphenyl	5	N.D.	N.D.	N.D.	加股份/	
Tetrabromobiphenyl	5 1	N.D.	N.D.	N.D.	ting Lab	
Pentabromobiphenyl	5	N.D.	N.D.	N.D.	/	
Hexabromobiphenyl	5	N.D.	N.D.	N.D.	/	
Heptabromobiphenyl	5	N.D.	N.D.	N.D.	/	
Octabromobiphenyl	5	N.D.	N.D.	N.D.	/	
Nonabromodiphenyl	5	N.D.	N.D.	N.D.	/	
Decabromodiphenyl	5	N.D.	N.D.	N.D.	/	
Total content	/	N.D.	N.D.	N.D.	1000	
Polybrominated Diphenylethers(PBDEs)) Content		T讯检测版的		一节讯检	
Monobromodiphenyl ether	5	N.D.	N.D.	N.D.	STLOPTO	
Dibromodiphenyl ether	5	N.D.	N.D.	N.D.	/	
Tribromodiphenyl ether	5	N.D.	N.D.	N.D.	/	
Tetrabromodiphenyl ether	5	N.D.	N.D.	N.D.	/	
Pentabromodiphenyl ether	5	N.D.	N.D.	N.D.	/	
Hexabromodiphenyl ether	5	N.D.	N.D.	N.D.	/	
Heptabromodiphenyl ether	5	N.D.	N.D.	N.D.	/	
Octabromodiphenyl ether	5	N.D.	N.D.	N.D.	则股份/	
Nonabromodiphenyl ether	5 11	N.D.	N.D.	N.D.	sting Lab	
Decabromodiphenyl ether	5	N.D.	N.D.	N.D.	/	
Total content	/	N.D.	N.D.	N.D.	1000	



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Note:

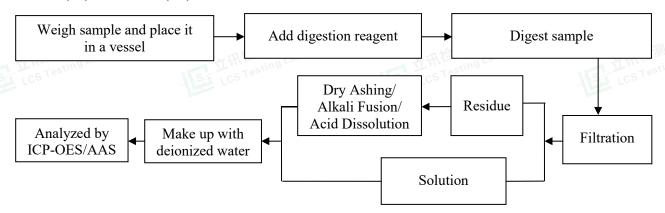
- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL or LOQ)
- mg/kg = milligrams per kilogram
- LOQ = Limit Of Quantification, The LOQ of Hexavalent chromium is 0.10 μg/cm²
- ★ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13\mu g/cm^2$. The sample coating is considered to contain Cr(VI).
 - b. The sample is negative for Cr(VI) if Cr(VI) is N.D.(concentration less than 0.10μg/cm²). The sample coating is considered a non- Cr(VI) based coating.

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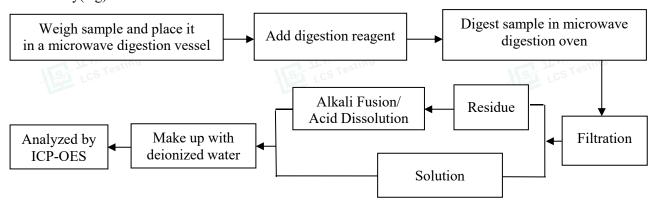
- c. The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive, unavoidable coating variations may influence the determination.
- Information on storage conditions and production date of the tested samples is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.
- According to customer's requirement, only the appointed materials have been tested.
- #1 According to RoHS Directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

Test Process

1. Lead(Pb) & Cadmium(Cd): IEC 62321-5:2013



Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV





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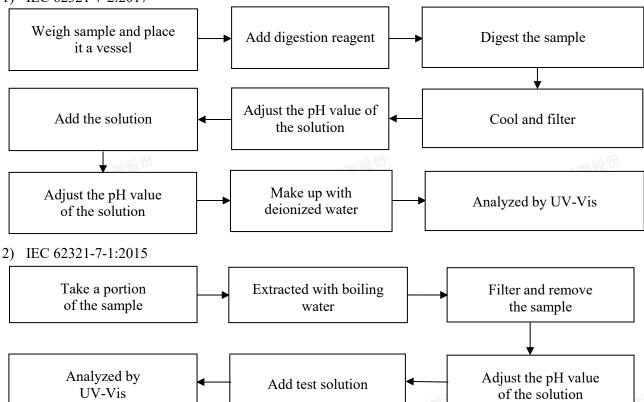
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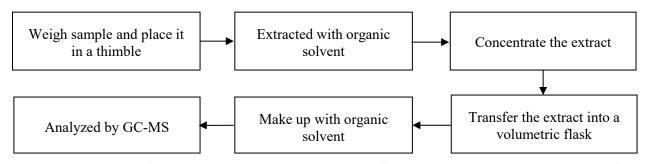


3. Hexavalent Chromium(Cr(VI))

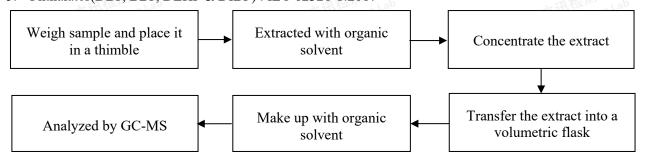
1) IEC 62321-7-2:2017



4. Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs): IEC 62321-6:2015



5. Phthalates(DBP, BBP, DEHP & DIBP) : IEC 62321-8:2017





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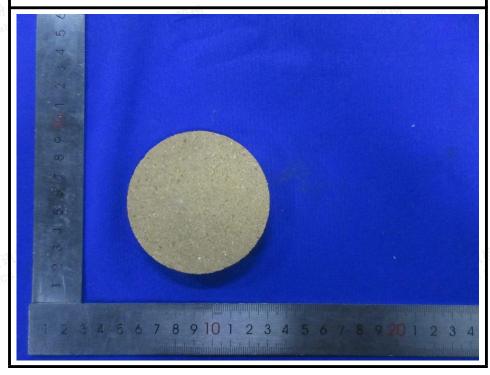




The photo(s) of the sample

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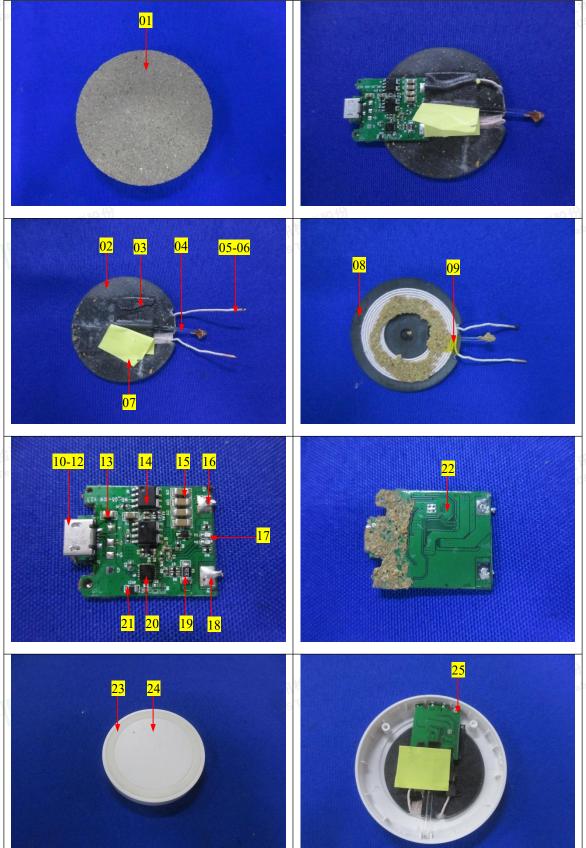


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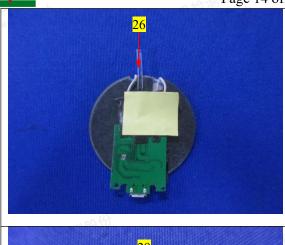


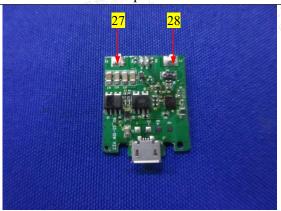


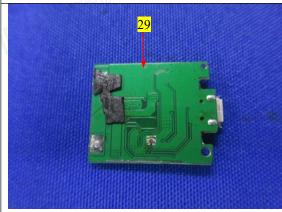
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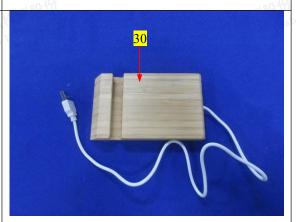


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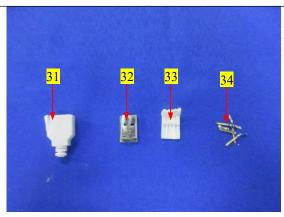


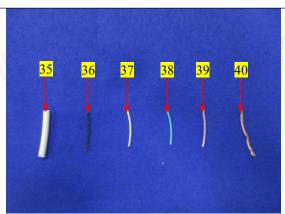


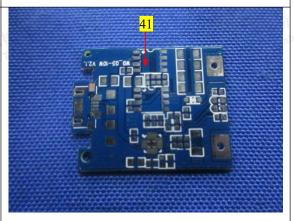












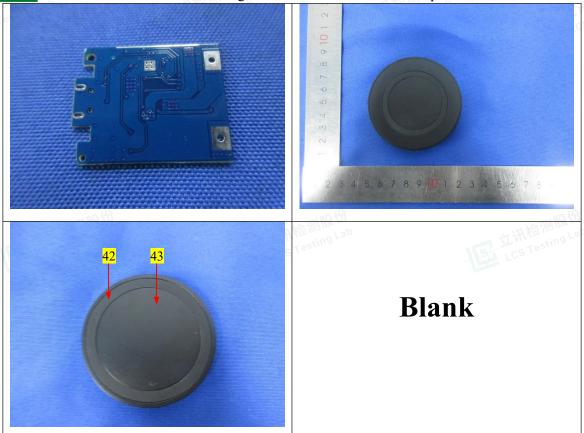


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Statement:

- The test report is invalid without the signature of the approver and the special seal for the company's report;
- The company name, address and sample information shown on the report were provided by the applicant who should be responsible for the authenticity which are not verified by LCS;
- The test results in this report are only responsible for the tested samples;
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- In case of any discrepancy between the corresponding Chinese and English contents in the test report, the English version shall prevail.

Revision History

Revision	Issue Date	Revision Content	Revised By
011	2022.11.11	According to customer's requirement additional tests, other information is unchanged. The LCS211108126AR011 report replaces the original LCS211108126AR010 report, and the original report is invalid.	Chen Zhang

*** End of Report ***



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Verification Report

Applicant : Mid Ocean Brands B.V.

Address 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong

Kong

Report on the submitted samples said to be:

Sample Name(s) : USB CABLE

Trade Mark : N/A

MO6509, MO5001, MO8602, MO8412, MO8113, MO9662, MO9663,

MO9051, MO8839, MO8735, MO9075, MO8573, MO8572, MO8884,

Part No. : MO8886, MO8642, MO8827, MO9310, MO9309, MO9434, MO9698,

MO9446, MO9914, MO9692, MO9842, MO9997, MO9996, MO9737,

MO9787, MO6390, MO6392, MO6399, MO9785, MO6391

Sample Received Date : November 10, 2022

Testing Period : November 10, 2022 ~ November 17, 2022

Date of Report : November 17, 2022

Testing Location 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community,

Matian Street, Guangming District, Shenzhen, Guangdong, China

Results : Please refer to next page(s).

TEST REQUEST	CONCLUSION
As specified by client, based on the performed tests on submitted sample, the result of	
Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs,	
Dibutyl Phthalate(DBP), Butylbenzyl Phthalate(BBP), Di-2-ethylhexyl	PASS
Phthalate(DEHP) and Diisobutyl phthalate(DIBP) content comply with the limits set by	可於測版作
RoHS Directive 2011/65/EU with amendment (EU) 2015/863.	Tyttesting Lab

Signed for and on behalf of LCS

Report No.: LCSA111022026R

Young/Laboratory Manager





Report No.: LCSA111022026R



Results:

A. EU RoHS Directive 2011/65/EU and its amendment directives

<u>Test method:</u> With reference to IEC 62321-1:2013&IEC 62321-2:2021&IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

G 1	G I	Sample						Date of sample	
Sample No.	Sample Description	Cd	Pb	Hg	Cr♥	В	r▼	submission/	
110.	•	Cu	ΓU	ng	Cr	PBBs	PBDEs	Resubmission	
1	Black plastic thread leather	BL	BL	BL	BL	BL	BL	2022-11-10	
2	Black plastic thread leather	BL	BL	BL	BL	BL	BL	2022-11-10	
3	Blue plastic thread leather	BL	BL	BL	BL	BL	BL	2022-11-10	
4	Pink plastic thread leather	BL	BL	BL	BL	BL	BL	2022-11-10	
5	Green plastic thread leather	BL	BL	BL	BL	BL	BL	2022-11-10	
6	Copper wire	BL	BL	BL	BL	/	/	2022-11-10	
7	Black plastic joint	BL	BL	BL	BL	BL	BL	2022-11-10	
8	Silver metal	BL	BL	BL	BL	/	/	2022-11-10	
9	White plastic	BL	BL	BL	BL	BL	BL	2022-11-10	
10	White plastic	BL	BL	BL	BL	BL	BL	2022-11-10	
IL Hestin	Gold metal core	BL	BL	BL	BL	sting /	/	2022-11-10	
12	Tin solder	BL	OL	BL	BL	/	/	2022-11-10	
13	Black plastic joint	BL	BL	BL	BL	BL	BL	2022-11-10	
14	Silver metal	BL	BL	BL	BL	/	/	2022-11-10	
15	Silver metal core	BL	BL	BL	BL	/	/	2022-11-10	
16	Black plastic	BL	BL	BL	BL	BL	BL	2022-11-10	
17	Tin solder	BL	BL	BL	BL	/	/	2022-11-10	
18	White plastic thread	BL	BL	BL	BL	BL	BL	2022-11-10	
19	White plastic joint	BL	BL	BL	BL	BL	BL	2022-11-10	
20	White plastic thread	BL	BL	BL	BL	BL	BL	2022-11-10	

Note:

1. Results were obtained by XRF for primary screening, 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 below warning value according to IEC 62321-3-1:2013(Unit: mg/kg).



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/* · C2 ·	W2/1 / C2 .	W2/1 / C2 ,	M5/1 (C5)
Element	Polymers	Metals	Composite material
Cd	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<></td></x<(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>
Pb	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>
Cr	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<>
Br	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<>

Remark:

- BL= Below Limit
- OL= Over Limit
- X= The range of needing to do further testing
- 3σ = The reproducibility of analytical instruments
- N/A= Not applicable
- LOD= Detection limit
- 2. The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- 3. The maximum permissible limit is quoted from the document RoHS Directive 2011/65/EU with amendment (EU) 2015/863.
- 4. ▼=For restricted substances PBBs and PBDEs, the results show the total Br content, the restricted substance was Cr(VI), and the results showed the total Cr content.

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
Polybrominated diphenylethers(PBDEs)	1000
Dibutyl Phthalate(DBP)	1000
Butylbenzyl Phthalate(BBP)	1000 Till Basing Lab
Di-(2-ethylhexyl) Phthalate(DEHP)	1000
Diisobutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening 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 screening 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. EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 on Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, DBP, BBP, DEHP & DIBP content

Test method:

Lead(Pb) & Cadmium(Cd) Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES) or Atomic absorption spectrometer (AAS).

Mercury(Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES).

Hexavalent Chromium(Cr(VI)) Content:

With reference to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, analysis was performed by UV-visible spectrophotometer (UV-Vis).

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

Phthalates(DBP, BBP, DEHP &DIBP) Content:

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

1) The test results of Lead(Pb)

1) The test results of Lea	d(Pb)		
Tested Items	MDL	Results (mg/kg)	Limit (mg/kg)
	(mg/kg)	(12)	
Lead(Pb) Content	5	23	1000

2) The test results of Phthalates(DBP, BBP, DEHP &DIBP)

Tested Items	MDL (mg/kg)	Results (mg/kg) 1+2+3+4+5+7	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000



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Tested Items	MDL	Results (mg/kg)	Limit (mg/kg)
Tested Items	(mg/kg)	9+10+13+16+18+19	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content	100	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	100	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	100	N.D.	1000
Diisobutyl phthalate(DIBP) Content	100	N.D.	1000

Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = milligrams per kilogram
- According to customer's requirement, only the appointed materials have been tested.







Report No.: LCSA111022026R



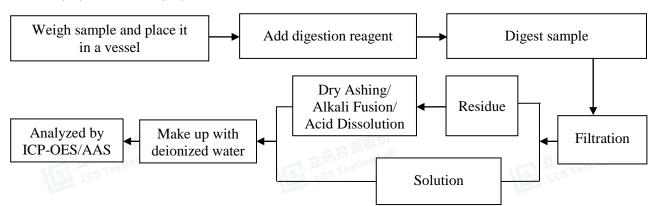
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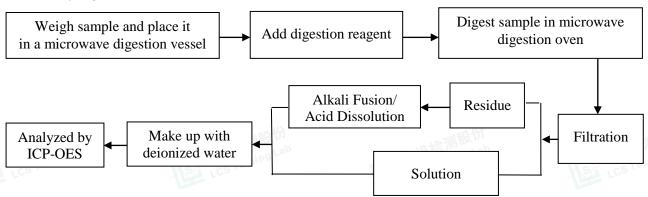


Test Process

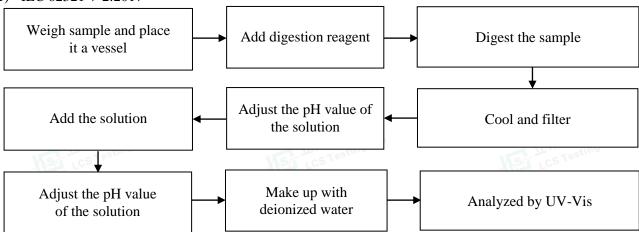
1. Lead(Pb) & Cadmium(Cd): IEC 62321-5:2013



2. Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV



- 3. Hexavalent Chromium(Cr(VI))
- 1) IEC 62321-7-2:2017





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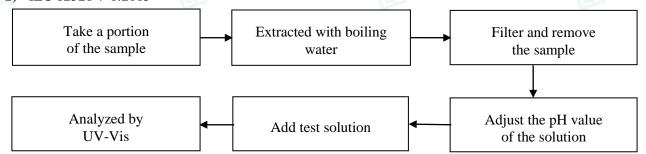
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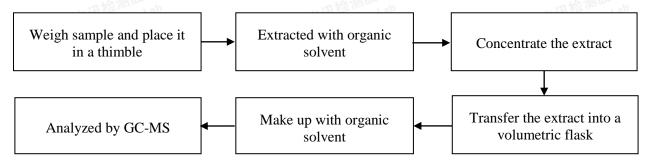
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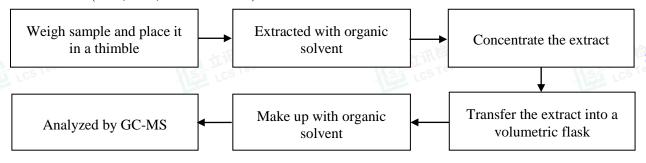
2) IEC 62321-7-1:2015



4. Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs): IEC 62321-6:2015



5. Phthalates(DBP, BBP, DEHP & DIBP): IEC 62321-8:2017





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The photo(s) of the sample







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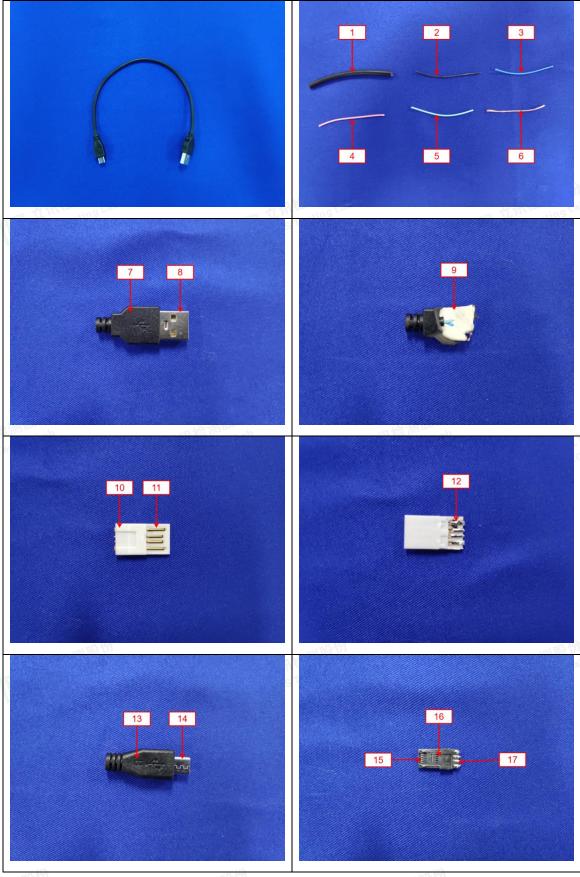
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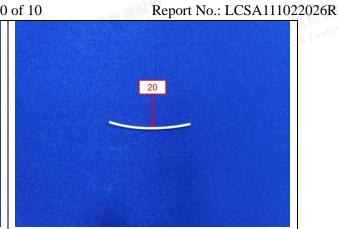




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