



Verification Report

Applicant : Dongguan Best Travel Electronics Co., Ltd

Address 402# 4/F, B Building, No.6, Tonggu Middle Road, Shangjiao District,

Chang'an Town, Dongguan City, 523870 Guangdong, P.R. China

Report on the submitted samples said to be:

Sample Name(s) : Travel adapter

Trade Mark : N/A

Part No. : 651UC

Sample Received Date : March 28, 2023

Testing Period : March 28, 2023 ~ March 31, 2023

Date of Report : March 31, 2023

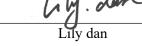
Testing Location : 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community,

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	
RoHS Directive 2011/65/EU with amendment (EU) 2015/863.	·····································

Signed for and on behalf of LCS





Report No.: LCSA032723078R



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 No.	Sample	Results					Date of sample	
	Sample Description	Cd	Pb	Hg Cr▼		Br▼		submission/
		Cu	10	ng	Ci	PBBs	PBDEs	Resubmission
1	White plastic shell	BL	BL	BL	BL	BL	BL	2023-03-28
2	Silver metallic needle	BL	BL	BL	BL	/	/	2023-03-28
3	Silver metal sheet	BL	BL	BL	BL	/	AL HA	2023-03-28
4	White ceramic sheet	BL	BL	BL	BL	BL	BL	2023-03-28
5	Black plastic sheet	BL	BL	BL	BL	BL	BL	2023-03-28
6	Silver metal spring	BL	BL	BL	BL	/	/	2023-03-28
7	Silver metal block	BL	BL	BL	BL	/	/	2023-03-28
8	Silver metallic needle	BL	BL	BL	BL	/	/	2023-03-28
9	Silver metal sheet	BL	BL	BL	BL	/	/	2023-03-28
10	Copper colored metal sheet	BL	BL	BL	BL	/	/	2023-03-28
	Silver metal sheet	BL	BL	BL	BL	则股为	/	2023-03-28
12°still	White plastic sheet	BL	BL	BL	BL	BL	BL	2023-03-28
13	Silver Metallic Needle	BL	BL	BL	BL	/	/	2023-03-28
14	Silver metal sheet	BL	BL	BL	BL	/	/	2023-03-28
15	Black plastic sheet	BL	BL	BL	BL	BL	BL	2023-03-28
16	Silver metallic needle	BL	BL	BL	BL	/	/	2023-03-28
17	Black plastic sheet	BL	BL	BL	BL	BL	BL	2023-03-28
18	Silver metal sheet	BL	BL	BL	BL	/	/	2023-03-28
19	Black plastic ring	BL	BL	BL	BL	BL	BL	2023-03-28
20	Silver metal sheet	BL	BL	BL	BL	/	在讯	2023-03-28
21	Gray metal sheet	BL	BL	BL	BL	/	STILCS	2023-03-28
22	Yellow wet paper	BL	BL	BL	BL	BL	BL	2023-03-28
23	Silver metallic needle	BL	BL	BL	BL	/	/	2023-03-28
24	Red plastic sheet	BL	BL	BL	BL	BL	BL	2023-03-28
25	Black plastic sheet	BL	BL	BL	BL	BL	BL	2023-03-28
26	Silver metallic needle	BL	BL	BL	BL	/	/	2023-03-28
27	Yellow tape	BL	BL	BL	BL	BL	BL	2023-03-28
28	Black ceramic	BL	BL	BL	BL	BL	BL	2023-03-28



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立述 Testin	Games VE	Results Results					Date of sample	
Sample No.	Sample Description	Cd Pb Hg	Ша	Cr▼	Br▼		submission/	
110.	Description		ng		PBBs	PBDEs	Resubmission	
29	Red metal wire	BL	BL	BL	BL	/	/	2023-03-28
30	Black plastic sheet	BL	BL	BL	BL	BL	BL	2023-03-28
31	Black IC	BL	BL	BL	BL	BL	BL	2023-03-28
32	Black IC	BL	BL	BL	BL	BL	BL	2023-03-28
33	PCB board	BL	BL	BL	BL	BL	BL	2023-03-28
34	Tin solder	BL	BL	BL	BL	/	/	2023-03-28
35	Silver metal screw	BL	X	BL	BL	/	/	2023-03-28

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	Polymers Metals	
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.



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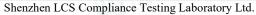
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RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium(Cd)	100
Lead(Pb)	1000
Mercury(Hg)	1000
Hexavalent Chromium(Cr(VI))	1000
Polybrominated biphenyls(PBBs)	1000
Polybrominated diphenylethers(PBDEs)	1000
Dibutyl Phthalate(DBP)	1000
Butylbenzyl Phthalate(BBP)	1000 Till tall the 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.







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 optical 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 optical 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)

Tested Items	MDL	Results (mg/kg)	Limit
	(mg/kg)	(35)	(mg/kg)
Lead(Pb) Content	5	41	1000

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

Tested Items	MDL	Res (mg	Limit	
Testeu Items	(mg/kg)	1	5	(mg/kg)
Dibutyl Phthalate(DBP) Content	50	N.D.	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	N.D.	1000



*





Tested Items		MDL mg/kg)	Results (mg/kg) 4+12+15+17+19+22	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content		50	N.D.	1000
Butylbenzyl Phthalate(BBP) Con	ntent	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEI	HP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Con	tent	50	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg) 24+25+27+28+30+31	Limit (mg/kg)
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Items	MDL	Results (mg/kg)	Limit (mg/kg)
LOS Testing	(mg/kg)	32+33	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	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.



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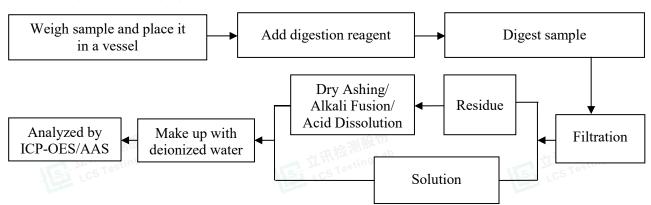


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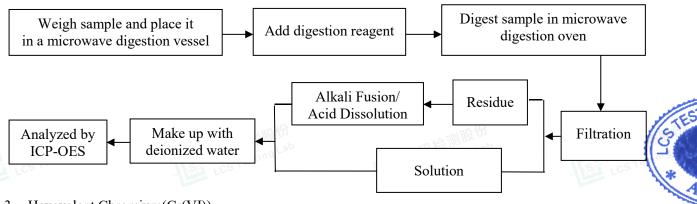


Test Process

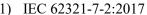
1. Lead(Pb) & Cadmium(Cd): IEC 62321-5:2013

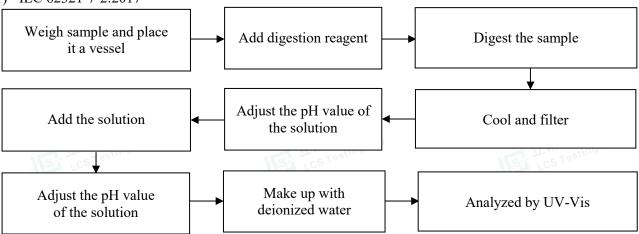


2. Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV



Hexavalent Chromium(Cr(VI))







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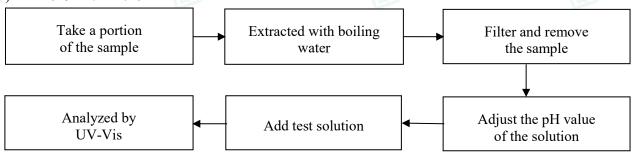
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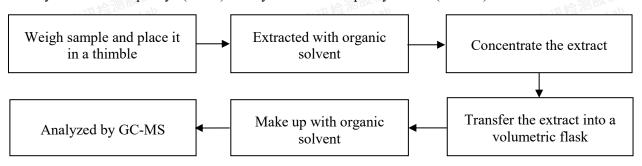
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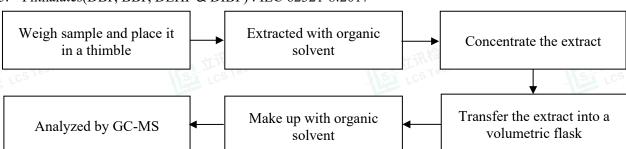
2) IEC 62321-7-1:2015



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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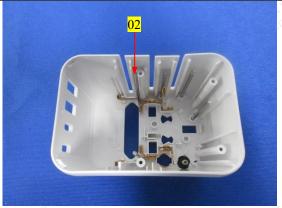
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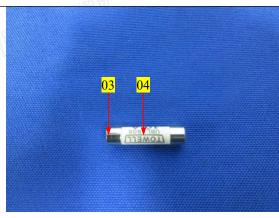
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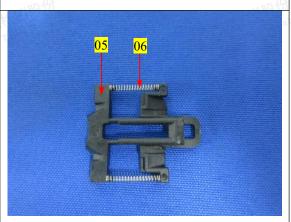


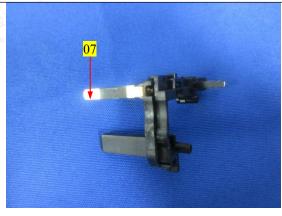


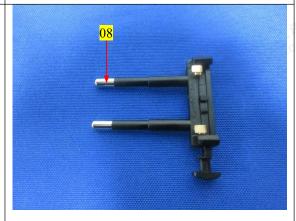


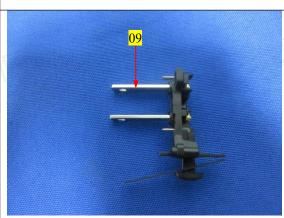


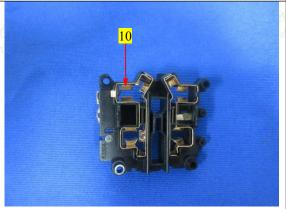














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- The test results in this report are only responsible for the tested samples; 3.
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