



**Test Report**

**Date** :2020-07-15

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**No.** : DT20070250

**Applicant (08313302)** : Justwise Group Ltd  
Koble Designs,6 The Shires,Shirehill industrial Estate,Saffron Walden,Essex,CB11 3AP

**Description of Sample(s)** : Three (3) styles of submitted sample(s) said to be :  
Wireless charging equipment  
End Use: Scandi Smart TV Unit, Scandi Smart Sideboard ,Scandi Smart Bookcase ,Scandi Smart End Table,Bea Desk  
Country of Origin:CHINA  
Country of Destination:UK

**Date sample(s) Received** : 2020-04-06

**Date Tested** : 2020-04-20 to 2020-04-27

**Result Summary:**

No	Test Requested	Conclusion	Remark
1	Verification test – European Council Directive 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS 2.0)	PASS	-
2	Phthalates (DBP, BBP, DEHP, DIBP) content - European Council Directive 2011/65/EU on the restriction of the use of certain Hazardous substances in electrical and electronic equipment (RoHS 2.0) and its amended DIRECTIVE (EU) 2015/863 amending Annex II to Directive 2011/65/EU of the European Parliament and of the Council as regards the list of restricted substances	PASS	-

*This Test Report supersedes our previous Test Report, No. DT20040343 issued on 2020-04-28, which is hereby deemed null and void.*

Liu Liang Guang, Henry  
Authorized Signatory

STC (Dongguan) Company Limited

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**TEST RESULT(S):**

**1.VERIFICATION TEST - EUROPEAN COUNCIL DIRECTIVE 2011/65/EU ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS)**

Method(s) Used: IEC 62321-3-1 (2013), IEC 62321-5 (2013), IEC 62321-7-1 (2015), IEC 62321-6 (2015)

-		Result					-
Parameter		Pb	Cd	Hg	Cr/ CrVI	Br/PBBs PBDEs	-
Unit		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	-
Test Item(s)	Item / Component Description	-	-	-	-	-	Conclusion
1	Black plastic (adaptor shell)	BL	BL	BL	BL	BL	Pass
2	Black plastic (USB wire jacket)	BL	BL	BL	BL	BL	Pass
3	Black plastic (USB head)	BL	BL	BL	BL	BL	Pass
4	White plastic (USB head)	BL	BL	BL	BL	BL	Pass
5	Grey plastic (micro USB head)	BL	BL	BL	BL	ND#	Pass
6	Black plastic (adaptor socket)	BL	BL	BL	BL	BL	Pass
7	Silvery metal (charger head)	18097 #	BL	BL	BL	NA	Exempted*
8	Silvery metal (USB head)	BL	BL	BL	BL	NA	Pass
9	Silvery metal (micro USB head)	BL	BL	BL	Negative#	NA	Pass
10	Silvery metal (socket)	BL	BL	BL	BL	NA	Pass

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**TEST RESULT(S):**

Note:

- BL = Below limit
- OL = Over limit
- M = Marginal
- NR = Not requested
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- % = percent
- 10000 mg/kg = 1 %
- NA = Not applicable
- ND = not detected
- Pb = Lead, Cd = Cadmium, Hg = Mercury, Cr = Chromium, Br = Bromine
- Detection Limit: See Appendix.

Remark(s):

- # 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, non-uniformity composition, surface flatness.
- \*According to Annex III of European Council Directive 2011/65/EU, exemptions were granted a few materials and Clause 6(c) is reiterated here “Copper alloy containing up to 4 % lead by weight.”. Test Item(s) <7> was (were) claimed as is by client (received as is). Therefore, this (these) Test Item(s) containing the found lead level should be exempted.
- When the result(s) is (are) marginal, it is recommended to further perform related wet chemistry method for confirmation. See interpretation of result(s) in Appendix.
- Test item(s) is (are) indicated on the photograph(s) in Comment.
- Tested part(s) was/ were specified by client.

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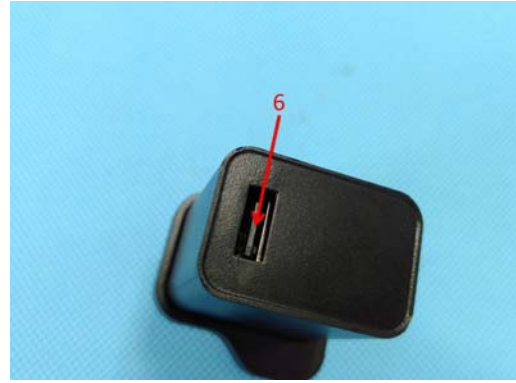
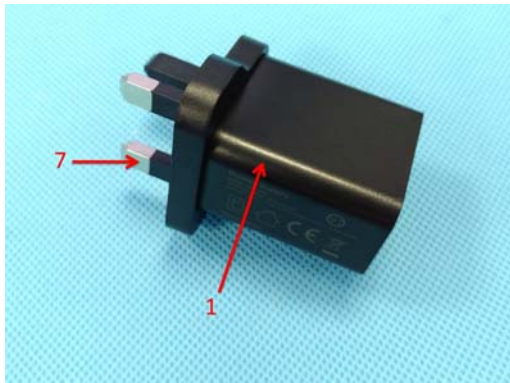
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**TEST RESULT(S):**

**Photograph(s) [ Preliminary Screening Assessment for European Council Directive 2011/65/EU ] :**



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**TEST RESULT(S):**

**APPENDIX**

List of Analytes, their Corresponding Detection Limit and Maximum Allowable Limit [ Preliminary Screening Assessment for European Council Directive 2011/65/EU ] :					
No.	Name of Analytes	Detection Limit (mg/kg)			Maximum Allowable Limit (mg/kg)
		Plastic	Metallic /glass/ ceramic	Others	
1	Lead (Pb)	100	200	200	1000
2	Cadmium (Cd)	50	50	50	100
3	Mercury (Hg)	100	200	200	1000
4	Chromium (Cr)	100	200	200	NA
5	Chromium VI (Cr VI)	NA	NA	NA	1000
6	Bromine (Br)	200	NA	200	NA
7	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	NA	NA	NA	Sum 1000
8	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	NA	NA	NA	Sum 1000
NA = Not applicable					



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**TEST RESULT(S):**

Interpretation of Result(s) [ Preliminary Screening Assessment for European Council Directive 2011/65/EU ] :			
Element	Non-metal	Metal	Composite material
Lead (Pb)	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Cadmium (Cd)	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL < X < (150 + 3\sigma) \leq OL$
Mercury (Hg)	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Chromium (Cr)	$BL \leq (700 - 3\sigma) < X$	$BL \leq (700 - 3\sigma) < X$	$BL \leq (500 - 3\sigma) < X$
Bromine (Br)	$BL \leq (300 - 3\sigma) < X$	-	$BL \leq (250 - 3\sigma) < X$

X = Region considers as marginal result  
3σ = Repeatability of XRF analyser at action level

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TEST RESULT(S):

**2.PHTHALATES (DBP, BBP, DEHP, DIBP) CONTENT - EUROPEAN COUNCIL DIRECTIVE 2011/65/EU ON THE RESTRICTION OF THE USE OF CERTAIN HAZARDOUS SUBSTANCES IN ELECTRICAL AND ELECTRONIC EQUIPMENT (ROHS 2.0) AND ITS AMENDED DIRECTIVE (EU) 2015/863 AMENDING ANNEX II TO DIRECTIVE 2011/65/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL AS REGARDS THE LIST OF RESTRICTED SUBSTANCES**

Method Used: IEC 62321-8:2017, analyzed by Gas Chromatography with Mass Selective Detector

Sample Identity	Item/ Component Description	Style
1	Black plastic (adaptor shell)	-
2	Black plastic (USB wire jacket)	-
3	Black plastic (USB head)	-
4	White plastic (USB head)	-
5	Grey plastic (micro USB head)	-
6	Black plastic (adaptor socket)	-

Maximum Allowable Limit (mg/kg):	BBP, DBP, DEHP, DIBP (each)<0.1%
----------------------------------	----------------------------------

Substance Name	CAS No.	Result(s) (%)	
		1+2+3	4+5+6
Benzyl butyl phthalate (BBP)	85-68-7	N.D.	N.D.
Dibutyl phthalate (DBP)	84-74-2	N.D.	N.D.
Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	N.D.	N.D.
Di-iso-butyl phthalate (DIBP)	84-69-5	N.D.	N.D.
Conclusion	-	Pass	Pass

Note(s): - N.D. = not detected  
- Method Limit=0.005% (each)

Remark(s): - For composite testing the acceptance limit should be divided by the no. of samples in the mix, i.e. limit/n (where n = no. of mixed sample).  
- Tested part(s) was/ were specified by client.  
- Above test result(s) of test item(s) (1-3) was/ were transferred from DT20040343, dated April 23, 2020.

**\*\*\*\*\* End of Test Report \*\*\*\*\***

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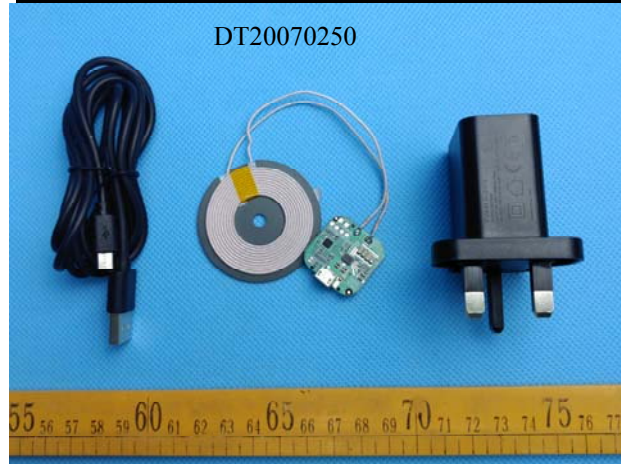
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**Appendix for Photos of the Submitted Sample(s)**



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