

TEST REPORT

Report No.: RSZ190718B1298E

Date: August 01, 2019

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Report on the submitted samples said to be:

Sample Description: Wireless Power Charger
Style/Item No.:
Sample Receiving Date: June 24,2019
Lately Re-submit Date: July 18,2019
Testing Period: June 24,2019 - July 30,2019
Result: **Pass**

Signed for and on behalf of

BACL



Checked by:

May Chen
Engineer

Approved by:



Lance Lee
Lab vice-Manager

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Summary of Test Result:

TEST REQUEST

CONCLUSION

RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates(DBP, BBP, DEHP, DIBP)content

A XRF screening test in the components of submitted sample as the requirement of client

Pass

B Wet Chemical Testing

1.PBBs & PBDEs content in the components of submitted sample as the requirement of client

Pass

C Phthalates(DBP, BBP, DEHP, DIBP)content in the components of submitted sample as the requirement of client

Pass

Pass=Meet the requirement of Client.

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Result:

Tested part(s):

- (1) Clear laminated white paper sticker with black coating (label , wireless power charger)
- (2) White plastic (case , wireless power charger)
- (3) Silvery metal (cover , type-A USB socket , PCB , wireless power charger)
- (4) Black plastic(type-A USB socket , PCB , wireless power charger)
- (5) Silvery metal (pin , type-A USB socket , PCB , wireless power charger)
- (6) Golden plated silvery metal (cover , type-C USB socket , PCB , wireless power charger)
- (7) Black plastic(type-C USB socket , PCB , wireless power charger)
- (8) Golden metal (pin , type-C USB socket , PCB , wireless power charger)
- (9) Silvery metal (cover , micro-B USB socket , PCB , wireless power charger)
- (10) Black plastic(micro-B USB socket , PCB , wireless power charger)
- (11) Silvery metal (pin , micro-B USB socket , PCB , wireless power charger)
- (12) Black core (coil holder , PCB , wireless power charger)
- (13) Translucent soft plastic with adhesive (base , coil holder , PCB , wireless power charger)
- (14) White plastic (base , coil holder , PCB , wireless power charger)
- (15) Brown plastic (tape , coil holder , PCB , wireless power charger)
- (16) pink fiber (sleeve , coil "RX" , PCB , wireless power charger)
- (17) Coppery metal (coil "RX" , PCB , wireless power charger)
- (18) Brown body (SMD capacitor , PCB , wireless power charger)
- (19) Black / white body (SMD resistor , PCB , wireless power charger)
- (20) Black body (diode , PCB , wireless power charger)
- (21) Black body (inductor , PCB , wireless power charger)
- (22) Black body (IC , PCB , wireless power charger)
- (23) White printed green coated brown plastic with coppery metal (PCB , wireless power charger)
- (24) Silvery solder (PCB , wireless power charger)
- (25) Black plastic (case , wireless power charger)
- (26) Black soft plastic (cover , type-A USB interface , USB cable)
- (27) Silvery metal (cover , type-A USB interface , USB cable)
- (28) White plastic (body , type-A USB interface , USB cable)

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- (29) Golden plated silvery metal (pin , type-A USB interface , USB cable)
- (30) Silvery solder (pin , type-A USB interface , USB cable)
- (31) Black soft plastic (cable jacket , USB cable)
- (32) Black soft plastic (wire jacket , USB cable)
- (33) Red soft plastic (wire jacket , USB cable)
- (34) Coppery metal (wire , USB cable)
- (35) Black soft plastic (cover , micro-B USB interface , USB cable)
- (36) Silvery metal (cover , micro-B USB interface , USB cable)
- (37) Black plastic (body , micro-B USB interface , USB cable)
- (38) Silvery metal (pin , micro-B USB interface , USB cable)
- (39) Silvery solder (pin , micro-B USB interface , USB cable)

Remark: As the declaration of same material by client, the data of test parts (1)-(24) in this report were cited the data of test parts (1)-(24) from the test report No. RSZ190621B1150E, the data of test parts (26),(27)-(29),(30)-(31),(32)-(35), (36)-(38),(39) in this report were cited the data of test parts (1),(3)-(5),(9)-(10),(12)-(15),(17)-(19),(22) from the test report No. RSZ190621B1149E-M1. If the testing of specimen may have the obvious difference, and the result may exceed the number in this report. The applicant will undertake all differences and risk.

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A XRF screening test in the components of submitted sample as the requirement of client

Test method: IEC 62321-3-1:2013

Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(1)	BL	BL	BL	BL	BL
(2)	BL	BL	BL	BL	BL
(3)	BL	BL	BL	BL	--
(4)	BL	BL	BL	BL	BL
(5)	BL	BL	BL	BL	--
(6)	BL	BL	BL	BL	--
(7)	BL	BL	BL	BL	BL
(8)	BL	BL	BL	BL	--
(9)	BL	BL	BL	BL	--
(10)	BL	BL	BL	BL	BL
(11)	BL	BL	BL	BL	--
(12)	BL	BL	BL	BL	BL
(13)	BL	BL	BL	BL	BL
(14)	BL	BL	BL	BL	BL
(15)	BL	BL	BL	BL	BL
(16)	BL	BL	BL	BL	BL
(17)	BL	BL	BL	BL	--
(18)	BL	BL	BL	BL	BL
(19)	BL	BL	BL	BL	BL
(20)	BL	BL	BL	BL	BL
(21)	BL	BL	BL	BL	BL
(22)	BL	BL	BL	BL	BL
(23)*	BL	BL	BL	BL	X
(24)	BL	BL	BL	BL	--
(25)	BL	BL	BL	BL	BL
(26)	BL	BL	BL	BL	BL

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(27)	BL	BL	BL	BL	--
(28)	BL	BL	BL	BL	BL
(29)	BL	BL	BL	BL	--
(30)	BL	BL	BL	BL	--
(31)	BL	BL	BL	BL	BL
(32)	BL	BL	BL	BL	BL
(33)	BL	BL	BL	BL	BL
(34)	BL	BL	BL	BL	--
(35)	BL	BL	BL	BL	BL
(36)	BL	BL	BL	BL	--
(37)	BL	BL	BL	BL	BL
(38)	BL	BL	BL	BL	--
(39)	BL	BL	BL	BL	--

Note:
-- = Not Applicable.
* = Screening by XRF and detected by chemical method. The test result of chemical method please refer to next pages.

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Remark:

i Result 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 IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	$BL \leq 70-3\sigma < X < 130+3\sigma \leq OL$	$BL \leq 70-3\sigma < X < 130+3\sigma \leq OL$	$BL \leq 50-3\sigma < X < 150+3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X < 1500+3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 700-3\sigma < X < 1300+3\sigma \leq OL$	$BL \leq 500-3\sigma < X < 1500+3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700-3\sigma < X$	$BL \leq 700-3\sigma < X$	$BL \leq 500-3\sigma < X$
Br	mg/kg	$BL \leq 300-3\sigma < X$	--	$BL \leq 250-3\sigma < X$

Note:

BL = Below Limit

OL = Over Limit

IN / X = Inconclusive (questionable, need further chemical analysis)

ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

iii The maximum permissible limit is quoted from the RoHS directive 2011/65/EU:

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

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 Wet Chemical Testing

1. PBBs & PBDEs content in the components of submitted sample as the requirement of client

Test method: IEC 62321-6:2015

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Item	Unit	MDL	Result	Limit
			(23)	
Monobromobiphenyl (MonoBB)	mg/Kg	5	N.D.	-
Dibromobiphenyl (DiBB)	mg/Kg	5	N.D.	-
Tribromobiphenyl (TriBB)	mg/Kg	5	N.D.	-
Tetrabromobiphenyl (TetraBB)	mg/Kg	5	N.D.	-
Pentabromobiphenyl (PentaBB)	mg/Kg	5	N.D.	-
Hexabromobiphenyl (HexaBB)	mg/Kg	5	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/Kg	5	N.D.	-
Octabromobiphenyl (OctaBB)	mg/Kg	5	N.D.	-
Nonabromobiphenyl (NonaBB)	mg/Kg	5	N.D.	-
Decabromobiphenyl (DecaBB)	mg/Kg	5	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/Kg	5	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/Kg	5	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/Kg	5	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/Kg	5	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/Kg	5	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/Kg	5	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/Kg	5	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/Kg	5	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/Kg	5	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/Kg	5	N.D.	-

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Item	Unit	MDL	Result	Limit
			(23)	
sum of MonoBDE, DiBDE, TriBDE, TetraBDE, PentaBDE, HexaBDE, HeptaBDE, OctaBDE, NonaBDE, DecaBDE	mg/Kg	-	/	1000
sum of MonoBB, DiBB, TriBB, TetraBB, PentaBB, HexaBB, HeptaBB, OctaBB, NonaBB, DecaBB	mg/Kg	-	/	1000
Conclusion	/	/	Pass	/

C Phthalates(DBP, BBP, DEHP, DIBP) content in the components of submitted sample as the requirement of client

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result						Limit
			(1)	(2)+(13)	(4)+(7)+(10)	(25)	(26)	(28)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	59	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result					Limit
			(31)	(32)	(33)	(35)	(37)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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Note:

- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- "+" = Composite testing.
- The Result less than MDL are not taken into account while calculating the sum contents.

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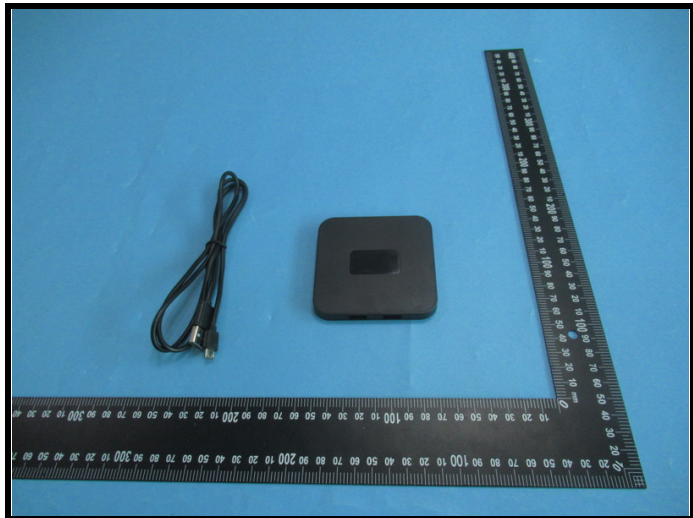
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Photograph of Sample



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