

Report No.: AGC01978180105-002 Date: Feb.07, 2018 Page 1 of 10

Applicant: Xindao B.V.

Address: VERRIJN STUARTLAAN 1D 2288EK RIJSWIJK NETHERLANDS

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

Sample Name: Portfolio with wireless power bank

Sample Model: P773.881

Manufacturer:

Address:

Country of origin: CHINA

Sample Received Date: Jan.31, 2018

Testing Period: Jan.31, 2018 to Feb.07, 2018

Test Requested: Please refer to following page(s).

Test Method: Please refer to following page(s).

Test Result: Please refer to following page(s).

Tested by: Len

Suhongliang, Leon

Reviewed by:

Liangdan, Jessie.Liang

Test Team Leader Technical Supervisor

Approved by:

Liulinwen, Lewis

Technical Director



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Report No.: AGC01978180105-002 Date: Feb.07, 2018 Page 2 of 10

Test Requested: Conclusion

As specified by client, to determine the Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs content in the submitted sample in accordance with EU RoHS Directive 2011/65/EU(RoHS) and its amendment directives on XRF and Chemical Method.

Pass

Test Result(s):

Test Methods:

A: <u>Screening by X-ray Fluorescence Spectrometry (XRF)</u>: With reference to IEC 62321-3-1:2013 Ed 1.0 Screening – Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

B: Chemical test:

Test Item	Test Method	Measuring Instrument	MDL
Cadmium (Cd)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Lead (Pb)	IEC 62321-5:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed 1.0 Section 7	ICP-OES	2 mg/kg
Non-metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017 Ed 1.0	UV-Vis	1 mg/kg
Metal Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-1:2015 Ed 1.0	UV-Vis	63
PBBs/PBDEs	IEC 62321-6:2015 Ed 1.0	GC-MS	5 mg/kg

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Report No.: AGC01978180105-002 Date: Feb.07, 2018 Page 3 of 10

Test Results:

A, EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Seq. No.	Tradad D. 46	TIM.	Results(mg/kg)				
	Tested Part(s)		Pb	Hg	Cr	Br	
1	Tea tape (battery)	BL	BL	BL	BL	BL	
2	Electric core (battery)	BL	BL	BL	BL	BL	
3	White (battery)	BL	BL	BL	BL	BL	
4	Soldering tin (battery)	BL	BL	BL	BL	-	
5	Black line (battery)	BL	BL	BL	BL	BL	
6	Red line (battery)	BL	BL	BL	BL	BL	
7	Wire core (battery)	BL	BL	BL	BL	30	
8	Black plastic sheet (battery sheet)	BL	BL	BL	BL	BL	
9	Spring (battery)	BL	BL	BL	X*	学习	
10	Silver screw (battery)	BL	BL	BL	BL	-	
11	Sheet metal (battery sheet)	BL	BL	BL	X*	-	
12	Black adhesive paper (battery sheet)	BL	BL	BL	BL	BL	
13	Red line skin	BL	BL	BL	BL	BL	
14	Wire core	BL	BL	BL	BL	-	
15	Black line skin	BL	BL	BL	BL	BL	
16	Tin solder	BL	BL	BL	BL	-	
17	PCB board	BL	BL	BL	BL	X*	
18	IC Ontology (IC)	BL	BL	BL	BL	BL	
19	Pin (IC)	BL	BL	BL	BL	G-	
20	Patch capacitance	BL	BL	BL	BL	BL	
21	chip resistor	BL	BL	BL	BL	BL	
22	Patch triode	BL	BL	BL	BL	BL	
23	Wire core (induction coil)	BL	BL	BL	BL		
24	Coil line (induction coil)	BL	BL	BL	BL	BL	

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Report No.: AGC01978180105-002 Date: Feb.07, 2018 Page 4 of 10

Seq.	T (1D (4)	Results(mg/kg)				
No.	Tested Part(s)	Cd	Pb	Hg	Cr	Br
25	Gray ceramic (induction coil)	BL	BL	BL	BL	BL
26	Patch magnetic frame inductor	BL	BL	BL	BL	BL
27	Patch LED	BL	BL	BL	BL	BL
28	Red enameled wire	BL	BL	BL	BL	0 1
29	Brown enameled wire	BL	BL	BL	BL	U .
30	Tin solder	BL	BL	BL	BL	- 1112
31	PCB board	BL	BL	BL	BL	X*
32	Metal shell (USB joint)	BL	BL	BL	BL	√ C
33	White plastic joint (USB joint)	BL	BL	BL	BL	BL
34	Needle (USB joint)	BL	BL	BL	BL	TA TA
35	Metal shell (Micro joint)	BL	BL	BL	BL	_
36	Black plastic joint (Micro joint)	BL	BL	BL	BL	BL
37	Needle (Micro joint)	BL	BL	BL	BL	- 100 m

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤70-3σ <x <130+3σ≤OL</x 	BL≤50-3σ <x <150+3σ≤OL</x
Pb	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Нд	mg/kg	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤700-3σ <x <1300+3σ≤OL</x 	BL≤500-3σ <x <1500+3σ≤OL</x
Cr	mg/kg	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	mg/kg	BL≤300-3σ <x< td=""><td>CO * - CO</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	CO * - CO	BL≤250-3σ <x< td=""></x<>

Note: BL= Below Limit

OL= Over limited

X= Inconclusive

"-"= Not regulated

*= Scanning by XRF and detected by chemical method. The test results of chemical method please refer to next pages.

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Report No.: AGC01978180105-002 Date: Feb.07, 2018 Page 5 of 10

Remark:

- i Results were obtained by XRF for primary scanning, 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 above warning value according to IEC 62321-3-1:2013 Ed 1.0.
- ii The XRF scanning 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 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 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.

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Report No.: AGC01978180105-002 Date: Feb.07, 2018 Page 6 of 10

B. The Test Results of Chemical Method:

1)The Test Results of metal Cr⁶⁺

The Man (a)	MDI	Res	T,		
Test Item(s)	MDL	9	11	Limit	
Hexavalent Chromium (Cr ⁶⁺)	See note	Negative	Negative	#	

Note: s

- Negative = Absence of Cr(VI) on the tested areas
- MDL = Method Detection Limit
- Boiling-water-extraction:

Number	Colorimetric result (Cr(VI) concentration)	Qualitative result
1	The sample solution is <the 0,10="" cm<sup="" μg="">2 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 the0,13 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 μg/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).

- # =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.

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Report No.: AGC01978180105-002 Date: Feb.07, 2018 Page 7 of 10

2) The Test Results of PBBs & PBDEs

Ham (5)	MDI	Result	t(s)	Limit	
Item(s)	MDL	17	31		
Polybrominated Biphenyls (PB	Bs)				
Monobromobiphenyl	5	N.D.	N.D.	100 S	
Dibromobiphenyl	5	N.D.	N.D.		
Tribromobiphenyl	5	N.D.	N.D.	10000000000000000000000000000000000000	
Tetrabromobiphenyl	5	N.D.	N.D.	4 T	
Pentabromobiphenyl	5	N.D.	N.D.	T. I.P.D. C.	
Hexabromobiphenyl	5	N.D.	N.D.	Total PBBs Content <1000	
Heptabromobiphenyl	- 5	N.D.	N.D.	1000	
Octabromobiphenyl	5	N.D.	N.D.	O Martin de Color	
Nonabromodiphenyl	5	N.D.	N.D.	GC D	
Decabromodiphenyl	5	N.D.	N.D.	:ill	
Total content	/	N.D.	N.D.	不是 要	
Polybrominated Diphenylether	s (PBDEs)				
Monobromodiphenyl ether	5	N.D.	N.D.	700	
Dibromodiphenyl ether	5	N.D.	N.D.	70	
Tribromodiphenyl ether	5	N.D.	N.D.	环 提	
Tetrabromodiphenyl ether	5	N.D.	N.D.	- 6	
Pentabromodiphenyl ether	5	N.D.	N.D.	T . I PDDE G	
Hexabromodiphenyl ether	5	N.D.	N.D.	Total PBDEs Content <1000	
Heptabromodiphenyl ether	5	N.D.	N.D.	1000	
Octabromodiphenyl ether	5	N.D.	N.D.	NGC 1	
Nonabromodiphenyl ether	5	N.D.	N.D.		
Decabromodiphenyl ether	5	N.D.	N.D.		
Total content	/	N.D.	N.D.	长 草草。	
Conclusion	- 1	Pass	Pass	E TOO I E.C.	

Note: N.D. = Not Detected or less than MDL

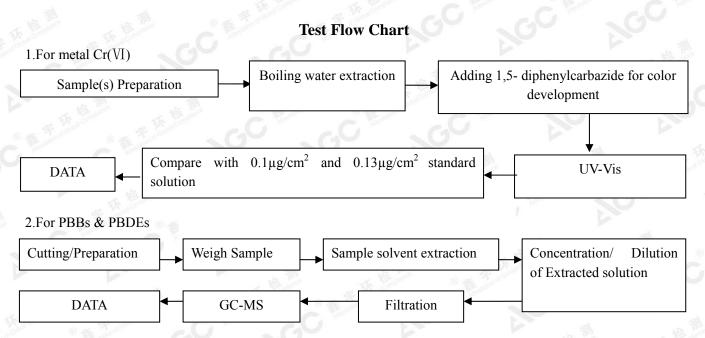
MDL = Method Detection Limit

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Report No.: AGC01978180105-002 Date: Feb.07, 2018 Page 8 of 10



As client's request, add this report that the results are copied from report No.: AGC01978180105-001.

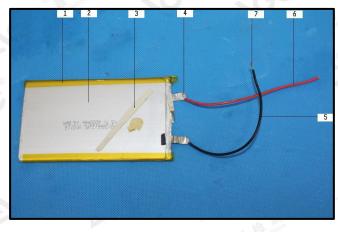
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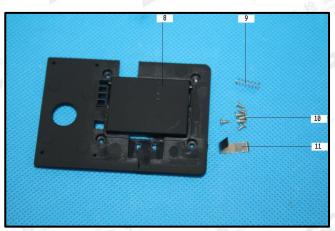
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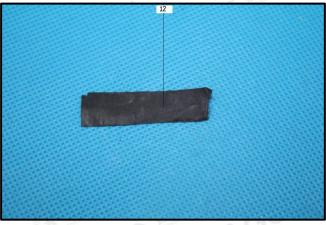


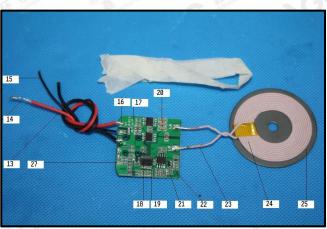
Report No.: AGC01978180105-002 Date: Feb.07, 2018 Page 9 of 10

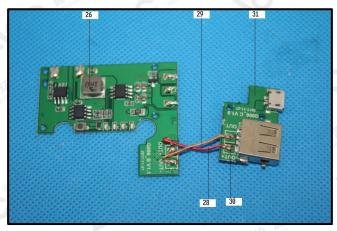
The photo of the sample

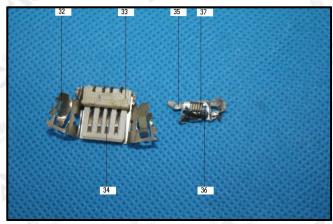












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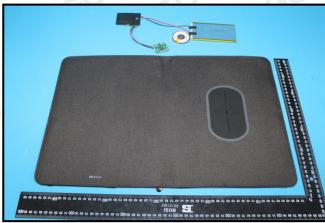
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Report No.: AGC01978180105-002 Date: Feb.07, 2018 Page 10 of 10





AGC01978180105-002(1)

AGC01978180105-002(2)

AGC authenticate the photo only on original report

*** End of Report ***

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