

TEST REPORT

<u>APPLICANT</u>	: Xindao B.V.
<u>ADDRESS</u>	: P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
<u>SAMPLE DESCRIPTION</u>	: 2600 mAh powerbank
<u>ITEM NO.</u>	: P324.203
<u>COUNTRY OF ORIGIN</u>	: China
<u>COUNTRY OF DESTINATION</u>	: Europe
<u>SAMPLE RECEIVED DATE</u>	: 10-Apr-2015
<u>TURN AROUND TIME</u>	: 10-Apr-2015 to 16-Apr-2015, 5 Working Days
<u>TEST SPECIFICATION</u>	: EC Directive 2011/65/EU —The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment — (RoHS)
<u>CONCLUSION</u>	: Based on the analysis on the submitted sample(s), the test results do comply with the RoHS directive 2011/65/EU.

The following test item(s) was/were performed on selected sample(s) and/or component(s) appointed by applicant.

Eurofins (Shanghai) contact information

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***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

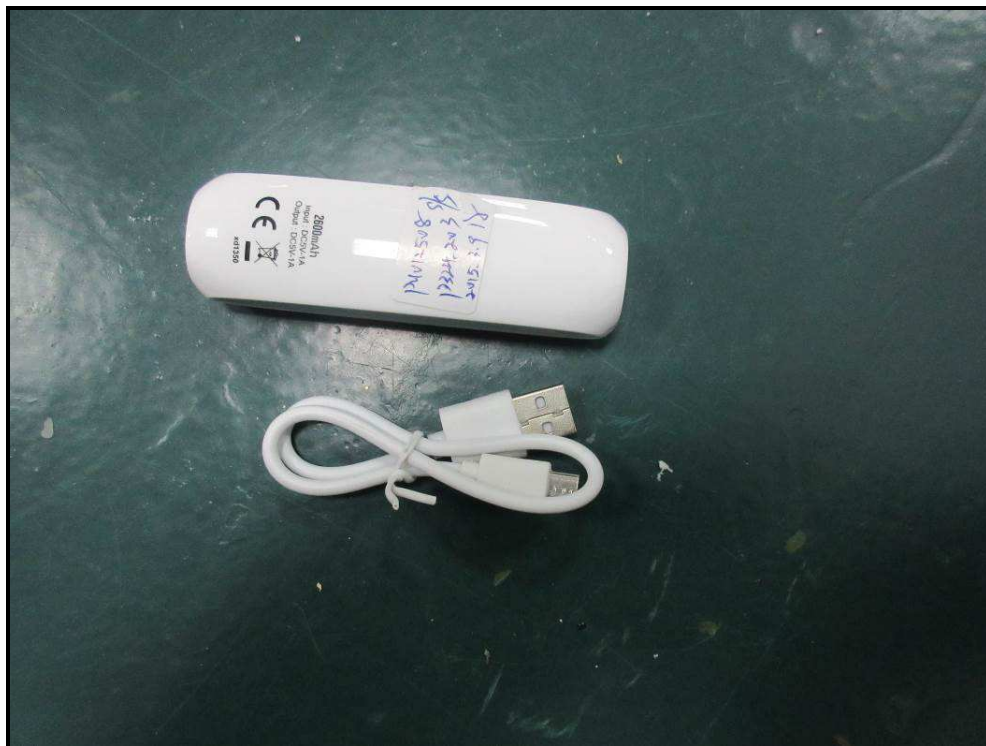
Signed for and on behalf of
Eurofins Product Testing Service(Shanghai) Co., Ltd. Hangzhou Branch



Terric Ji
Lab Manager

Results obtained refer only to samples, products or material received in Laboratory, as described in point related to sample description, and tested in conditions shown in present report. Eurofins Product Testing Service (Shanghai) Co., Ltd ensures that this job has been performed according to our Quality System and complying contract and legal conditions. If you happen to have any comments, please do it by sending email to SH.info@eurofins.com and referring to this report number. Reproduction of this document is only valid if it is done completely and under the written permission of Eurofins Product Testing Service (Shanghai) Co., Ltd.

SAMPLE PHOTO



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TO BE CONTINUED

COMPONENT PHOTO(S)



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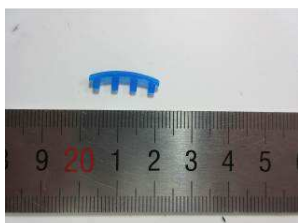
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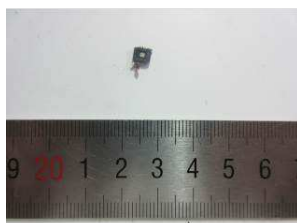
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TO BE CONTINUED

COMPONENT PHOTO(S)

16



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TO BE CONTINUED

TEST RESULT

A. Screening Test by XRF Spectroscopy

As specified by client, to analyze the contents of Lead, Cadmium, Mercury, Chromium, Bromine in the submitted sample by XRF. Screening limits in mg/kg for regulated elements in various matrices according to IEC 62321-3-1:2013 Ed.1

No.	Component	Test Results (mg/kg)				
		Cd	Pb	Hg	Cr	Br
		Limit (mg/kg)				
		100	1000	1000	Cr(VI):1000	PBB:1000 PBDE:1000
1	Pink plastic sheath	12	ND	ND	ND	ND
2	White plastic shell	ND	ND	ND	ND	ND
3	Grey plastic shell	ND	ND	ND	ND	ND
4	Black electronic component 1	ND	ND	ND	ND	NC
5	White plastic circle	ND	ND	ND	139	ND
6	Red paper	ND	ND	ND	ND	ND
7	Blue plastic block	ND	ND	ND	123	ND
8	Black electronic component 2	ND	ND	ND	ND	NC
9	Black electronic component 3	ND	ND	ND	ND	NC
10	Circuit board	ND	ND	ND	ND	NC
11	Soldering tin	ND	154	ND	NC	NA
12	Silver metal connector	ND	1524(*1)	ND	NC	NA
13	Silver metal connecting sheet	15	1117(*2)	ND	NC	NA
14	Silver metal wire	ND	1250(*1)	ND	NC	NA
15	Black rubber wire sheath 1	ND	ND	ND	180	ND
16	Red rubber wire sheath	14	ND	ND	ND	ND
17	Silver battery	ND	ND	ND	108	ND
18	White rubber wire sheath	ND	ND	ND	300	ND
19	Black rubber wire sheath 2	ND	ND	ND	209	ND
20	White rubber sheath	ND	ND	ND	ND	ND
21	Copper metal wire	44	843(*1)	ND	NC	NA
22	White plastic plug 1	ND	ND	ND	ND	ND
23	Silver metal pin of plug 1	ND	ND	ND	NC	NA
24	White plastic plug 2	ND	ND	ND	ND	ND
25	Silver metal pin of plug 2	ND	ND	ND	NC	NA

Note:

(*1) As a copper alloy containing up to 4% lead by weight (RoHS Exemption 6(c)).

(*2) Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35 % lead by weight (RoHS Exemption 6(a)).

TO BE CONTINUED

TEST RESULT

Abbreviation:	Pb	denotes Lead
	Cd	denotes Cadmium
	Hg	denotes Mercury
	Cr	denotes Chromium
	Cr(VI)	denotes Chromium(VI)
	Br	denotes Bromine
	PBBs	denotes Total Polybrominated Biphenyls
	PBDEs	denotes Total Polybrominated Diphenyl Ethers
	N.A.	denotes Not Applicable
	N.D.	denotes Not Detected (Nonmetal<10mg/kg,Metal<50mg/kg)
	N.C.	denotes Not Conclusive

XRF Screening limits for different materials:

Element	Polymers	Metals	Composite Material
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$		$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Note:

BL= Below limit

X = The region where further investigation is necessary

OL = Over limit

3σ = The repeatability of the analyzer at the action level

LOD = Limit of detection

XRF testing results are only used for reference.

TO BE CONTINUED

TEST RESULT

B. Confirmation Test by Wet Chemistry

Tested Item(s)	Test Method	Measured Equipment	MDL
Lead (Pb) /Cadmium (Cd)	IEC 62321-5:2013 Ed.1	ICP-OES	2 mg/kg
Mercury (Hg)	IEC 62321-4:2013 Ed.1	ICP-OES	2 mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis	/
	IEC 62321:2008 Ed.1 Annex C		2 mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5 mg/kg
Polybrominated DiphenylEthers (PBDEs)			

Component No.	Spot test for Cr(VI) (*3)	Boiling-water-extraction for Cr(VI) (*3)
11	Negative	-
12	Negative	-
13	Negative	-
14	Negative	-
21	Negative	-
23	Negative	-
25	Negative	-

Remark:

(*3) The screening result of Chromium(VI) was found in the inconclusive region, Thus the Chromium(VI) content in surface layer have been confirmed with reference to IEC 62321.

Component No.	Test Results (mg/kg)					
	Cd	Pb	Hg	Cr (VI)	PBBs	PBDEs
	Limit (mg/kg)					
	100	1000	1000	1000	1000	1000
4	-	-	-	-	ND	ND
8	-	-	-	-	ND	ND
9	-	-	-	-	ND	ND
10	-	-	-	-	ND	ND

Note:

The sample had been dissolved totally tested for Lead, Cadmium, Mercury.

MDL = method detection limit

ND = not detected (<MDL)

mg/kg = milligram per kilogram

*** END OF THE REPORT ***