



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

RoHS 2011/65/EU

Test Report Number : CGZ3150703-01997-C



CTS (Ningbo) Testing Service Technology Co., Ltd.

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1 General Information

1.1 Application Details

Name : Xindao B.V.
Address : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Contact : kevin
Telephone : /
Fax : /
Mobile telephone : /
Email : kevin.zsz@xindao.com

1.2 Manufacturer & Buyer

Manufacturer name : Xindao B.V.
Address : P.O. Box 3082, 2280 GB, Rijswijk, The Netherlands
Contact : kevin
Telephone : /
Fax : /
Mobile telephone : /
Email : kevin.zsz@xindao.com
Buyer name : /

1.3 Description of the Test Item

Sample name : 7500 mAh powerbank with stand
Model No. : PU014921 P324.60
Order No. : PU014921
Brand name : /
Condition of sample(s) : EFFECTIVE

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2 Test results

2.1 Sample Receiving Date

Jul. 03, 2015

2.2 Testing Period

Jul. 03, 2015 to Jul. 07, 2015

2.3 Test Requested

In accordance with the RoHS Directive 2011/65/EU Annex II.

2.4 Test Method

1. X-Ray Fluorescence Spectrometry method in reference to IEC 62321-3-1:2013.
2. Chemical test method

Test Item(s)	Test Method	Test Instrument
Lead (Pb)	With reference to IEC 62321-5:2013	ICP-AES
Cadmium (Cd)	With reference to IEC 62321-5:2013	ICP-AES
Mercury (Hg)	With reference to IEC 62321-4:2013	ICP-AES
Chromium VI (Cr VI)	With reference to IEC 62321:2008	UV-Vis
PBBs	With reference to IEC 62321:2008	GC-MS
PBDEs		

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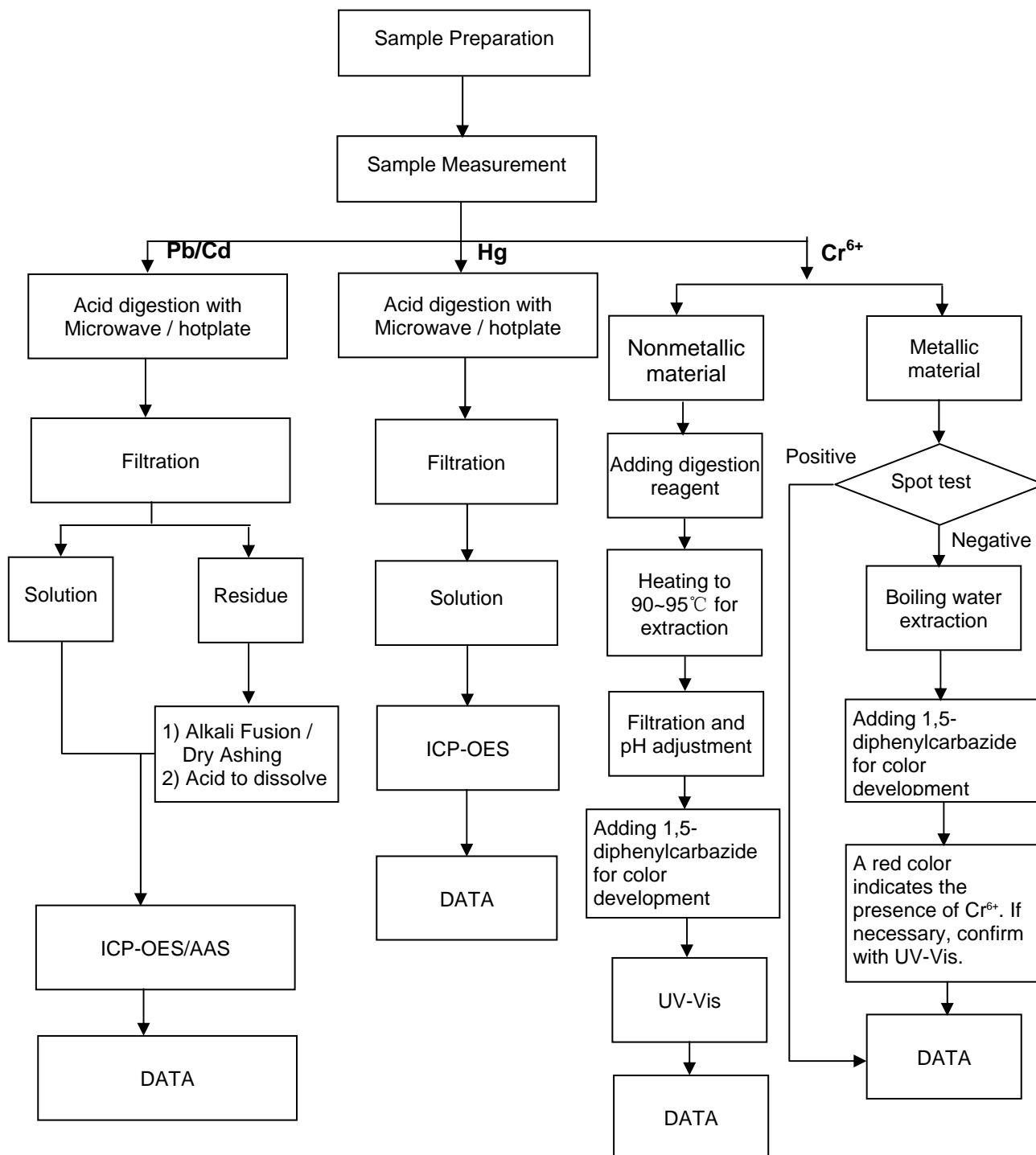
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2.5 Chemical Test Method Flow Chart



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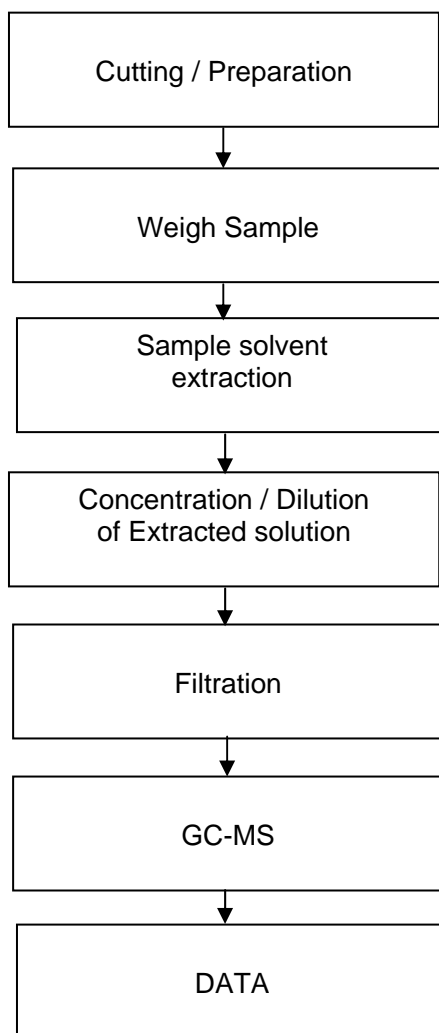
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PBBs / PBDEs



2.6 Conclusion

Based on the performed tests on submitted samples, the results of Lead, Cadmium, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU Annex II; recasting 2002/95/EC.

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2.7 Test Results

2.7.1 Test results of all parts by EDXRF and chemical confirmation

No.	Sample Description		Results					Chemical Confirmation Result (Unit=mg/kg)
			Pb	Cd	Hg	Cr	Br	
1	Black plastic cover		P	P	P	P	P	
2	Silvery metal block		P	P	P	P	/	
3	Black rubber		P	P	P	P	P	
4	Black tape with white printing		P	P	P	P	P	
5	Silvery metal screw		P	P	P	P	/	
6	Black metal screw		P	P	P	P	/	
7	Silvery metal wafer		P	P	P	P	/	
8	Black EVA		P	P	P	P	P	
9	Red tape		P	P	P	P	P	
10	Wire	Black jacket	P	P	P	P	P	
11		Black cable jacket	P	P	P	P	P	
12		Red cable jacket	P	P	P	P	P	
13		Silvery wire	P	P	P	P	/	
14		Copper Wire	P	P	P	P	/	
15	PCB	Black fiberboard	P	P	P	P	P	
16		Copper foil	P	P	P	P	/	
17		Solder tin	P	P	P	P	/	
18		Chip resistor	X	P	P	P	P	$1.4 \times 10^{3\Delta}$

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No.	Sample Description		Results					Chemical Confirmation Result (Unit=mg/kg)
			Pb	Cd	Hg	Cr	Br	
19	PCB	Chip capacitor	P	P	P	P	P	
20		Chip diode	P	P	P	P	X	PBBs,PBDEs=N.D.
21		Chip audion	P	P	P	P	X	PBBs,PBDEs=N.D.
22		Ring inductance	Enamelled wire	P	P	P	P	P
23				P	P	P	P	P
24		IC	Black body	P	P	P	P	X
25				P	P	P	P	/
26		USB connection base	Silvery metal cover	P	P	P	P	/
27			Black plastic frame	P	P	P	P	P
28			White plastic frame	P	P	P	P	P
29			Metal wafer	P	P	P	P	/
30		Chip LED	Transparent body	P	P	P	P	X
31		Lockless switch	Black plastic	P	P	P	P	P
32			Silvery metal piece	P	P	P	P	/
33			Metal dome	P	P	P	X	/
34			Pin	P	P	P	P	/
35		Aluminum electrolytic capacitor	Black plastic jacket with white printing	P	P	P	P	P
36			Silvery metal cover	P	P	P	P	/
37			Black rubber end closure	P	P	P	P	P

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No.	Sample Description			Results					Chemical Confirmation Result (Unit=mg/kg)
				Pb	Cd	Hg	Cr	Br	
38	PCB	Aluminum electrolytic capacitor	Pin	P	P	P	P	/	
39			Capacitor anode film	P	P	P	P	P	
40			Capacitor cathode film	P	P	P	P	P	
41			Paper film	P	P	P	P	P	
42	USB Plug	Black plug material		P	P	P	P	P	
43		White plastic frame		P	P	P	P	P	
44		Black plastic frame		P	P	P	P	P	
45		Silvery metal cover		P	P	P	P	/	
46		Metal wafer		P	P	P	P	/	

Note : P = Below Limit (Pass)

F = Over Limit (Fail)

X = Inconclusive

N.D. = not detected (less than MDL)

1mg/kg=1ppm=0.0001%

△ According to the declaration from client, the source of lead in the sample could be from the ceramic parts. Lead in electronic ceramic parts is exempted from the requirement of RoHS Directive (2011/65/EU).

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Remarks:

- (1) Results are obtained by EDXRF for primary screening, and further chemical testing is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1: 2013.

Element	Polymer Materials	Metallic Materials	Electronic Materials
Pb	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$
Cd	$P \leq 50 < X < 130 \leq F$	$P \leq 50 < X < 130 \leq F$	$X < 130 \leq F$
Hg	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$	$P \leq 500 < X < 1300 \leq F$
Cr	$P \leq 700 < X$	$P \leq 700 < X$	$P \leq 500 < X$
Br	$P \leq 250 < X$	/	$P \leq 250 < X$

- (2) Chemical Confirmation Result acceptable Limit:

Test items	Lead (Pb)	Cadmium (Cd)	Mercury (Hg)	Chromium (CrVI)	PBBs	PBDEs
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Acceptable Limit	1000	100	1000	1000	1000	1000

- (3) The test results only apply to the materials requested by applicant.

Written by:

Amanda

Inspected by:

Annie

Approved by:

lyt

End of Report



The measurement results only apply to the submitted samples.

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3 Sample Reference Photo



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