



**CENTRE OF TESTING SERVICE
INTERNATIONAL**

OPERATE ACCORDING TO ISO/IEC 17025

TEST REPORT

RoHS 2011/65/EU

Test Report Number : CGZ3150520-01389-C



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

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TEST REPORT

REPORT No. : CGZ3150520-01389-C
DATE : May 25, 2015
PAGE : 1 of 9

Table of contents

1	General Information	2
1.1	Application Details	2
1.2	Manufacturer & Buyer	2
1.3	Description of the Test Item	2
2	Test results	3
2.1	Sample Receiving Date	3
2.2	Testing Period	3
2.3	Test Requested	3
2.4	Test Method	3
2.5	Chemical Test Method Flow Chart	4
2.6	Conclusion	5
2.7	Test Results	6
2.7.1	Test results of all parts by EDXRF and chemical confirmation	6
3	Sample Reference Photo	9

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TEST REPORT

REPORT No. : CGZ3150520-01389-C
DATE : May 25, 2015
PAGE : 2 of 9

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 : 2200 mAh powerbank
Model No. : P324.05
Order No. : PU014458
Brand name : /
Condition of sample(s) : EFFECTIVE

TEST REPORT

REPORT No. : CGZ3150520-01389-C
DATE : May 25, 2015
PAGE : 3 of 9

2 Test results

2.1 Sample Receiving Date

May 20, 2015

2.2 Testing Period

May 20, 2015 to May 21, 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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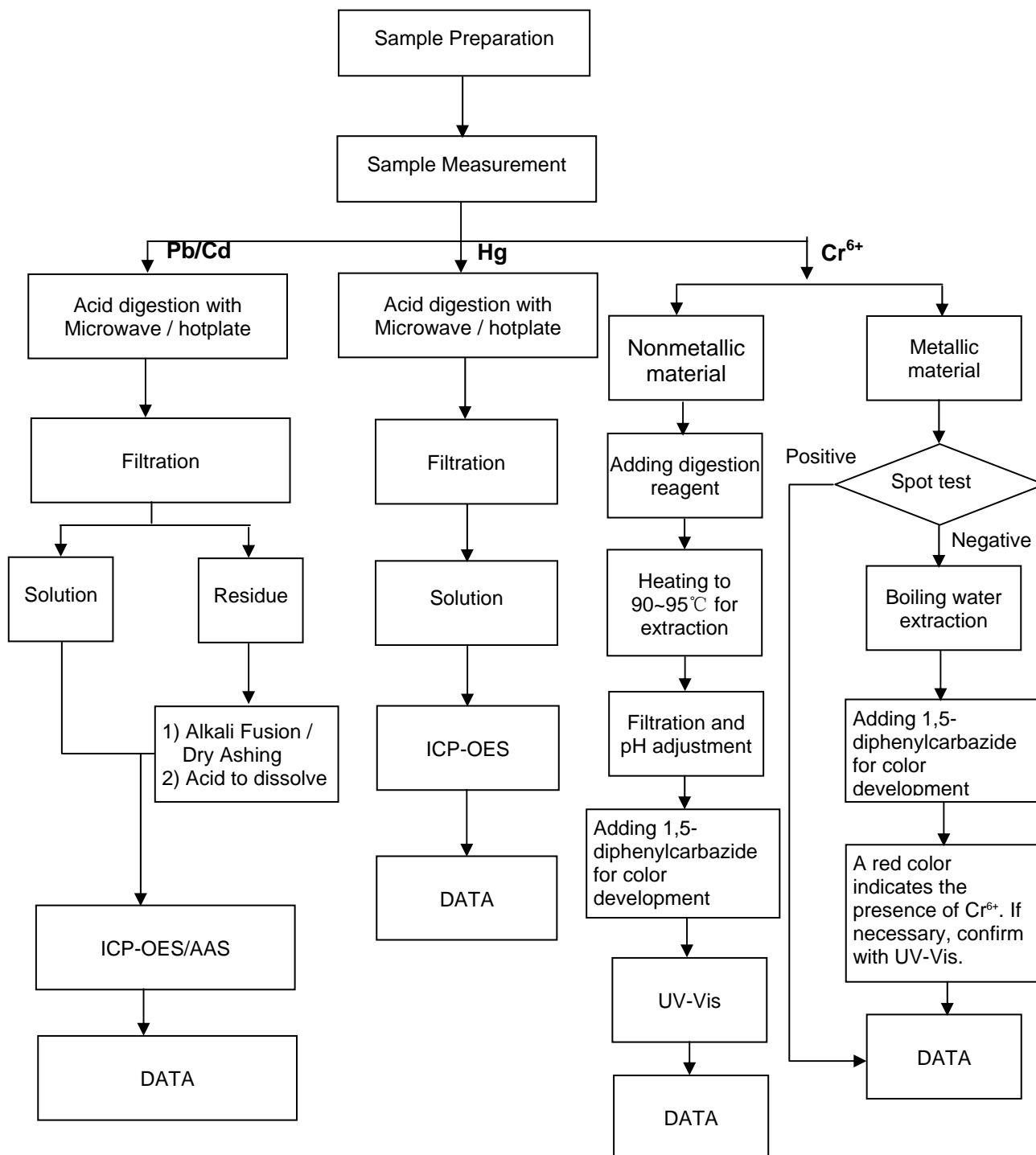
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TEST REPORT

REPORT No. : CGZ3150520-01389-C
 DATE : May 25, 2015
 PAGE : 4 of 9

2.5 Chemical Test Method Flow Chart



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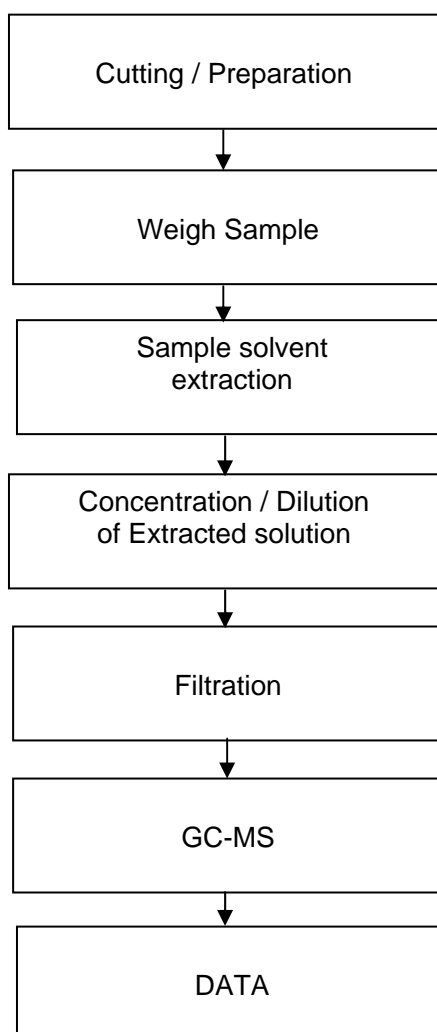
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TEST REPORT

REPORT No. : CGZ3150520-01389-C
DATE : May 25, 2015
PAGE : 5 of 9

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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TEST REPORT

REPORT No. : CGZ3150520-01389-C
 DATE : May 25, 2015
 PAGE : 6 of 9

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	Grey plastic cover		P	P	P	P	P	
3	White coating		P	P	P	P	P	
4	Silvery metal wafer		P	P	P	P	/	
5	Silvery metal spring		P	P	P	P	/	
6	Black tape		P	P	P	P	P	
7	Wire	White jacket	P	P	P	P	P	
8		White cable jacket	P	P	P	P	P	
9		Green cable jacket	P	P	P	P	P	
10		Red cable jacket	P	P	P	P	P	
11		Copper Wire	P	P	P	P	/	
12	PCB	Blue fiberboard	P	P	P	P	P	
13		Copper foil	P	P	P	P	/	
14		Solder tin	P	P	P	P	/	
15		Chip resistor	X	P	P	P	P	Pb=1.4×10 ³ △
16		Chip capacitor	P	P	P	P	P	
17		Chip diode	P	P	P	P	X	PBBs,PBDEs=N.D.

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TEST REPORT

REPORT No. : CGZ3150520-01389-C
 DATE : May 25, 2015
 PAGE : 7 of 9

No.	Sample Description			Results					Chemical Confirmation Result (Unit=mg/kg)
				Pb	Cd	Hg	Cr	Br	
18	PCB	Chip inductance	Enamelled wire	P	P	P	P	P	
19			Winding column	P	P	P	P	P	
20		IC	Black body	P	P	P	P	X	PBBs,PBDEs=N.D.
21			Pin	P	P	P	P	/	
22		USB connection base	Silvery metal cover	P	P	P	P	/	
23			White plastic frame	P	P	P	P	P	
24			Black plastic frame	P	P	P	P	P	
25			Metal wafer	P	P	P	P	/	
26	USB Plug	White plug material		P	P	P	P	P	
27		White plastic frame		P	P	P	P	P	
28		Black plastic frame		P	P	P	P	X	PBBs,PBDEs=N.D.
29		Silvery metal cover		P	P	P	P	/	
30		Silvery 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).

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
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TEST REPORT

REPORT No. : CGZ3150520-01389-C
 DATE : May 25, 2015
 PAGE : 8 of 9

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:

hyt

End of Report



The measurement results only apply to the submitted samples.

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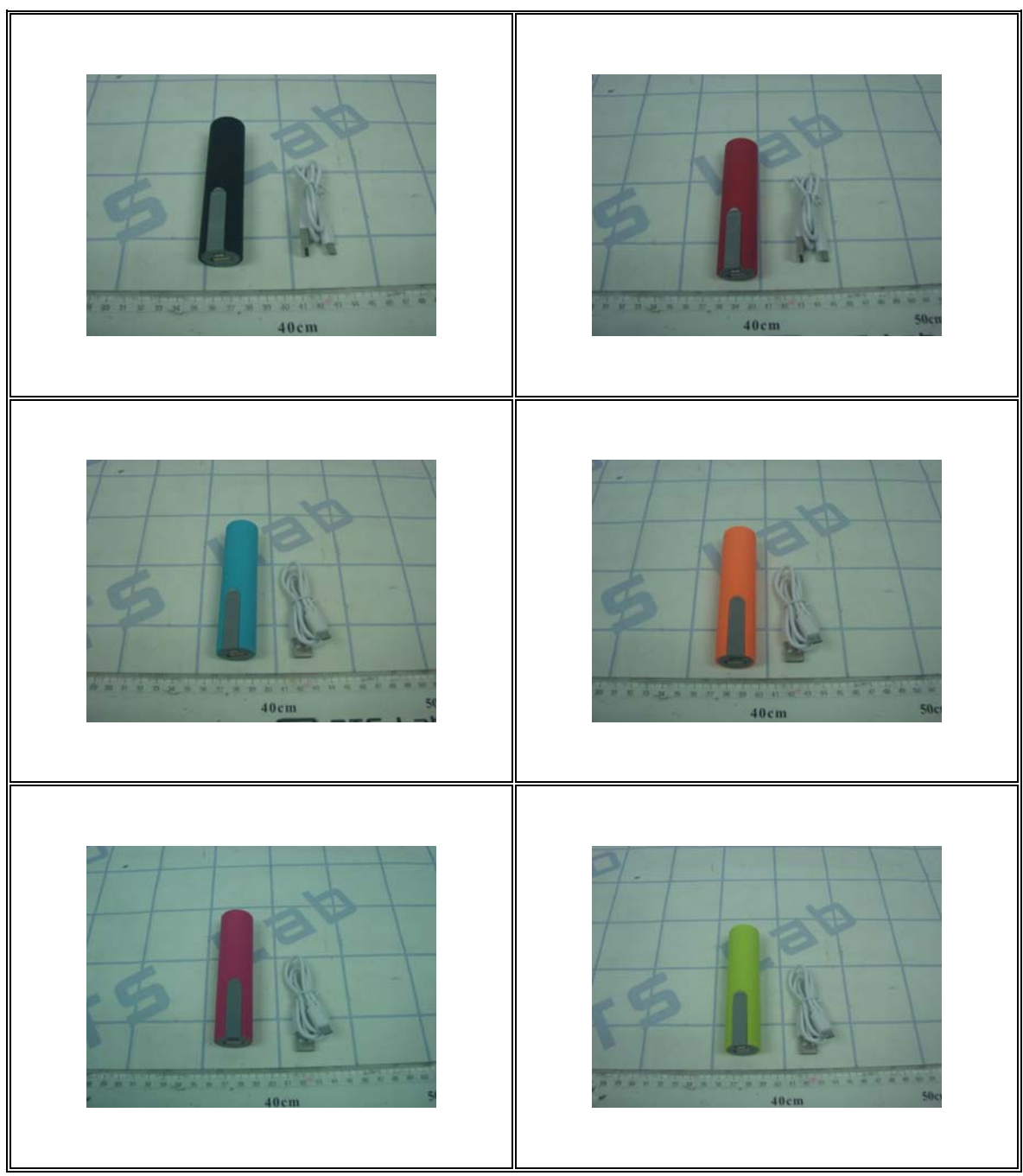
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REPORT No. : CGZ3150520-01389-C
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PAGE : 9 of 9

3 Sample Reference Photo



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