



Test Report

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Applicant :

Address :

The following sample(s) was /were submitted and identified on behalf of the clients as :

Sample Name : Wireless charger

Sample Model : LWC-P10A, LWC-S8, LWC-P8, LWC-H10, LWC-H12

Sample Received Date : Dec., 16, 2017

Testing Period : Dec., 16, 2017 - Dec., 26, 2017

Test Requested : Selected test (s) in the selected parts as requested by client with the EU Directive 2011/65/EU on the restriction of hazardous substances and Commission Decision 2005/618/EC-(RoHS Directive)

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

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

Prepared by :

Amanda

Reviewer :

Jazmin

Approved & Authorized Signer :





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Test Method and Test Equipment:

Test Item(s)	Test Method	Test Equipment
Lead(Pb)	IEC62321-3-1:2013	XRF
Cadmium(Cd)	IEC62321-3-1:2013	XRF
Mercury(Hg)	IEC62321-3-1:2013	XRF
Chromium(Cr)	IEC62321-3-1:2013	XRF
Bromine(Br)	IEC62321-3-1:2013	XRF

Part of the test method:

No.	Test Item(s)	Test Method
1	Bromine(Br)	IEC 62321-1: 2013+IEC 62321-3-1:2013
11	Bromine(Br)	IEC 62321-1: 2013+IEC 62321-3-1:2013
12	Bromine(Br)	IEC 62321-1: 2013+IEC 62321-3-1:2013
18	Bromine(Br)	IEC 62321-1: 2013+IEC 62321-3-1:2013

No.	Sample Description	Test item	Result	Limit	Judgment
1	Black plastic case	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
2	Semi-permeable black plastic	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass



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No.	Sample Description	Test item	Result	Limit	Judgment
3	Translucent dark green plastic	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
4	Silver plating	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
5	White plastic	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
6	White plastic ring membrane	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
7	Black rubber ring	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
8	Black foam double-sided stickers	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass



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No.	Sample Description	Test item	Result	Limit	Judgment
9	Silver screws	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--
10	Transparent potting	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
11	White plastic	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
12	Black coating	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
13	Black body	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
14	Silver lead	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--



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No.	Sample Description	Test item	Result	Limit	Judgment
15	Silver solder joints	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--
16	Silver metal (usb)	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--
17	Black plastic (usb)	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
18	Green coating	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
19	White resin	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
20	Silver gray battery membrane	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--



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No.	Sample Description	Test item	Result	Limit	Judgment
21	Black metal	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--
22	Yellow tape	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
23	Pink wire skin	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
24	Red wire skin	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
25	Black wire skin	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
26	Copper core	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--



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No.	Sample Description	Test item	Result	Limit	Judgment
27	Black body	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
28	Silver lead	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--
29	Green coating	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
30	White resin	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
31	Silver gray metal	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--
32	White plastic	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass



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No.	Sample Description	Test item	Result	Limit	Judgment
33	Silver lead	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--
34	Black plastic	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
35	Black wire skin	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
36	Red wire skin	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
37	White wire skin	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass
38	Copper core	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--



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No.	Sample Description	Test item	Result	Limit	Judgment
39	Silver metal (mic-usb)	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	--
40	Black plastic (mic-usb)	Lead(Pb)	N.D.	1000	Pass
		Cadmium(Cd)	N.D.	100	Pass
		Mercury(Hg)	N.D.	1000	Pass
		Chromium(Cr)	N.D.	1000	Pass
		Bromine(Br)	N.D.	350	Pass

Estimated detection limits in mg/kg for regulated elements in various material

Element	Polymer Material	Metallic Material	Composite Material
Lead(Pb)	300	300	300
Cadmium(Cd)	30	30	30
Mercury(Hg)	300	300	300
Chromium(Cr)	300	300	300
Bromine(Br)	300	Not applicable	300

Note:

1. P = Pass
2. F = Fail
3. "--" = Not applicable



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Sample photo:



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