



ROHS TEST REPORT

Product: COMPUTER CASE

Model No.: 630

Applicant : Sollerion Corporation
4F-1 No.859 Ching Kuo Rd., Taoyuan, Taiwan R.O.C

Manufacturer : Sollerion Corporation
4F-1 No.859 Ching Kuo Rd., Taoyuan, Taiwan R.O.C

Testing laboratory : Guangzhou Deu Technology Testing Co.,Ltd.

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Report Number : DEU(16)-05-2087R

Date of Report : 18th May,2016

Test Result : PASS



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

Product: COMPUTER CASE

Model: 630

Applicant: Solleron Corporation
4F-1 No.859 Ching Kuo Rd.,Taoyuan,Taiwan R.O.C

Factory: Solleron Corporation
4F-1 No.859 Ching Kuo Rd.,Taoyuan,Taiwan R.O.C

Test period: 14th May,2016~18th May,2016

Test request: With reference to RoHS directive 2011/65/EU recasting 2002/95/EC.

Test method: Please see next page(s).

Applicable Standards: EN 50581 :2012

Conclusion: Based on the review of previous reports and verification results of the submitted Samples,the results of Cadmium,Lead,Mercury,Hexavalent chromium,Polybrominated Biphenyls(PBBs),Polybrominated diphenyl ethers(PBDEs) comply with the limits as Set by RoHS Directive 2011/65/ EU recasting 2002/95/EC.

Note: The test results are related only to the tested items.The report shall not be reproduced Except in full without the written approval of the testing laboratory.

Tested By: Ada

Date: 2016-5-18

Approved By: Feng

Date: 2016-5-18



- Test Method:**
- 1. Review was performed for the samples disjointed from the submitted articles and the Related test reports submitted by the applicant.**
 - 2. Tests were performed for the samples indicated by the photos in the report with test Methods reference to IEC 62321:2008: Procedures for the Determination of Levels of Six Regulated Substances in Electrotechnical Products**
 - (1) Screening by XRF Spectroscopy**
 - (2) Wet chemical Test Method**
 - A. Determination of Lead & Cadmium by ICP-OES or AAS**
 - B. Determination of Mercury by ICP- OES**
 - C. Determination of Hexavalent Chromium by Spot test or Colorimetric Method**
 - D. Determination of PBBs and PBDEs by GC-MS**

Guangzhou Deu Technology Testing Co., Ltd



Test result

Part No.	Part Description	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical testing (2) (mg/kg)	Conclusion on EU RoHS
01	Transparent glass	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	-- -- -- -- -- --	Comply Comply Comply Comply Comply Comply.
02	Black metal screw	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	-- -- -- -- -- --	Comply Comply Comply Comply N.A. N.A.
03	Black PCB	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	-- -- -- -- N.D. N.D.	Comply Comply Comply Comply Comply Comply
04	Fan	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	-- -- -- -- N.D. N.D.	Comply Comply Comply Comply Comply Comply
05	Black magic sticker	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL BL BL	-- -- -- -- -- --	Comply Comply Comply Comply Comply Comply.
06	Black plastic(ABS)	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	-- -- -- -- N.D. N.D.	Comply Comply Comply Comply Comply Comply



Test result

Part No.	Part Description	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical testing (2) (mg/kg)	Conclusion on EU RoHS
07	Black nylon net	Pb	BL	--	Comply
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	BL	--	Comply
		PBDEs	BL	--	Comply
		08	Black metal magnet	Pb	BL
Cd	BL			--	Comply
Hg	BL			--	Comply
Cr(VI)	BL			--	Comply
PBBs	BL			--	N.A.
PBDEs	BL			--	N.A.
09	Black metal net			Pb	BL
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	BL	--	N.A.
		PBDEs	BL	--	N.A.
		10	Data line	Pb	BL
Cd	BL			--	Comply
Hg	BL			--	Comply
Cr(VI)	BL			--	Comply
PBBs	IN			N.D.	Comply
PBDEs	IN			N.D.	Comply
11	Blue plastic socket			Pb	BL
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	IN	N.D.	Comply
		PBDEs	IN	N.D.	Comply
		12	Yellow lamp bead	Pb	BL
Cd	BL			--	Comply
Hg	BL			--	Comply
Cr(VI)	BL			--	Comply
PBBs	IN			N.D.	Comply
PBDEs	IN			N.D.	Comply



Test result

Part No.	Part Description	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical testing (2) (mg/kg)	Conclusion on EU RoHS
13	White plastic	Pb	BL	--	Comply
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	IN	N.D.	Comply
		PBDEs	IN	N.D.	Comply
		14	Resistor	Pb	BL
Cd	BL			--	Comply
Hg	BL			--	Comply
Cr(VI)	BL			--	Comply
PBBs	IN			N.D.	Comply
PBDEs	IN			N.D.	Comply
15	Restart switch			Pb	BL
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	IN	N.D.	Comply
		PBDEs	IN	N.D.	Comply
		16	Black USB jacket	Pb	BL
Cd	BL			--	Comply
Hg	BL			--	Comply
Cr(VI)	BL			--	Comply
PBBs	IN			N.D.	Comply
PBDEs	IN			N.D.	Comply
17	Blue USB jacket			Pb	BL
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	IN	N.D.	Comply
		PBDEs	IN	N.D.	Comply
		18	Switch	Pb	BL
Cd	BL			--	Comply
Hg	BL			--	Comply
Cr(VI)	BL			--	Comply
PBBs	IN			N.D.	Comply
PBDEs	IN			N.D.	Comply



Test result

Part No.	Part Description	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical testing (2) (mg/kg)	Conclusion on EU RoHS
19	Headphone jacket	Pb	BL	--	Comply
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	IN	N.D.	Comply
		PBDEs	IN	N.D.	Comply
20	Push button	Pb	BL	--	Comply
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	IN	N.D.	Comply
		PBDEs	IN	N.D.	Comply
21	Orange wire	Pb	BL	--	Comply
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	IN	N.D.	Comply
		PBDEs	IN	N.D.	Comply
22	Blue wire	Pb	BL	--	Comply
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	IN	N.D.	Comply
		PBDEs	IN	N.D.	Comply
23	Purple wire	Pb	BL	--	Comply
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	IN	N.D.	Comply
		PBDEs	IN	N.D.	Comply
24	Green wire	Pb	BL	--	Comply
		Cd	BL	--	Comply
		Hg	BL	--	Comply
		Cr(VI)	BL	--	Comply
		PBBs	IN	N.D.	Comply
		PBDEs	IN	N.D.	Comply



Test result

Part No.	Part Description	Restricted Substances	Results of EDXRF (1)	Result of Wet Chemical testing (2) (mg/kg)	Conclusion on EU RoHS
25	Yellow wire	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	-- -- -- -- N.D. N.D.	Comply Comply Comply Comply Comply Comply
26	Black wire	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	-- -- -- -- N.D. N.D.	Comply Comply Comply Comply Comply Comply
27	White wire	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	-- -- -- -- N.D. N.D.	Comply Comply Comply Comply Comply Comply
28	Red wire	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	-- -- -- -- N.D. N.D.	Comply Comply Comply Comply Comply Comply
29	Black power line	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	-- -- -- -- N.D. N.D.	Comply Comply Comply Comply Comply Comply
30	Black plastic with white coating	Pb Cd Hg Cr(VI) PBBs PBDEs	BL BL BL BL IN IN	-- -- -- -- N.D. N.D.	Comply Comply Comply Comply Comply Comply



Remark:

(1) (a) There are the results on total Br while test items on restricted substances are PBBs and PBDEs. There is the result on Total Cr while test item on restricted substances is Cr(VI).

(b) Results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the Below warning value according to IEC62321 (UNIT: MG/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-36) < X < (130+36) \leq OL$	$BL \leq (70-36) < X < (130+36) \leq OL$	$LOD < X < (150+36) \leq OL$
Pb	$BL \leq (70-36) < X < (1300+36) \leq OL$	$BL \leq (70-36) < X < (1300+36) \leq OL$	$BL \leq (500-36) < X < (1500+36) \leq OL$
Hg	$BL \leq (70-36) < X < (1300+36) \leq OL$	$BL \leq (70-36) < X < (1300+36) \leq OL$	$BL \leq (500-36) < X < (1500+36) \leq OL$
Br	$BL \leq (300-36) < X$	--	$BL \leq (250-36) < X$
Cr	$BL \leq (700-36) < X$	$BL \leq (700-36) < X$	$BL \leq (500-36) < X$

(c) BL=Below Limit, OL=Over Limit, IN=Inconclusive, LOD=Limit of Detection, --=Not regulated.

(d) The XRF screening test for RoHS elements-The reading may be different to the actual content in the sample be of Non-uniformity composition.

(2)(a) mg/kg=0.0001%, MDL=Method detection limit, ND=Not Detected (<MDL), ---=Not conducted

(b) Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg
Unit	mg/kg	mg/kg	mg/kg
MDL	2	2	2

The MDL for single compound of PBBs and PBDEs is 5 mg/kg, MDL of Cr(VI) for polymer and composite sample is 2 mg/kg.

(c) According to IEC 62321:2008, result on Cr(VI) for metal sample is shown as Positive/Negative.

Negative=Absence of Cr(VI) coating, Positive=Presence of Cr(VI) coating.



Sample Photo





exploded view	
	1
	2 3 4 5

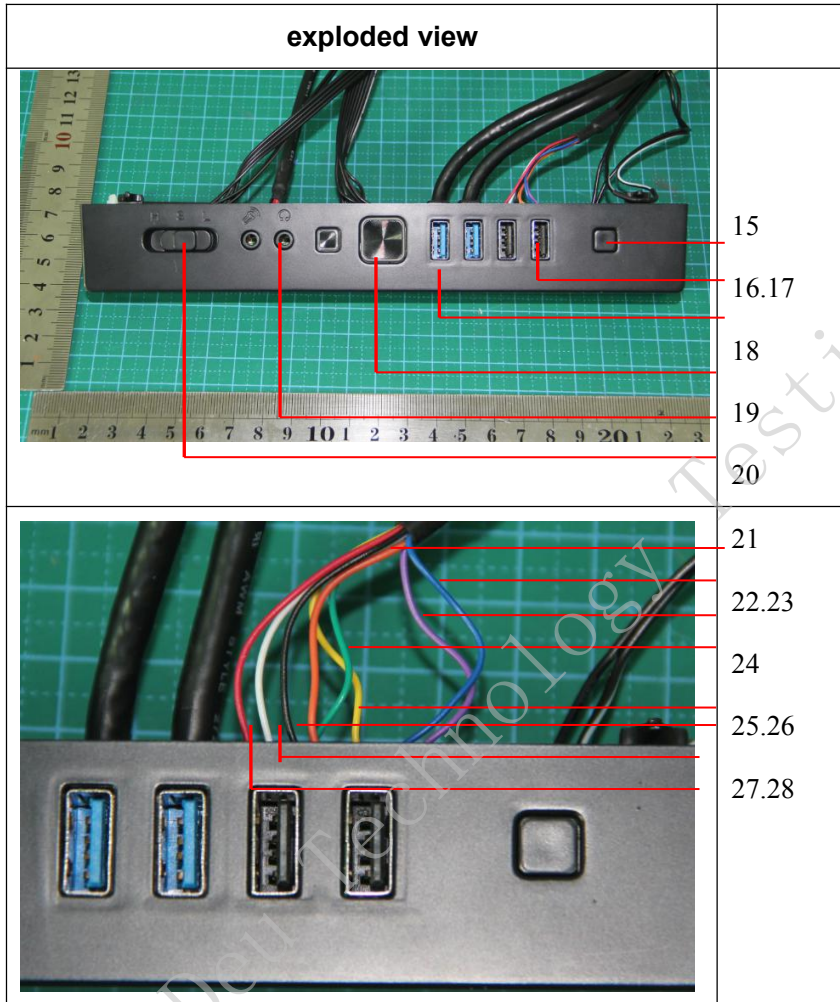


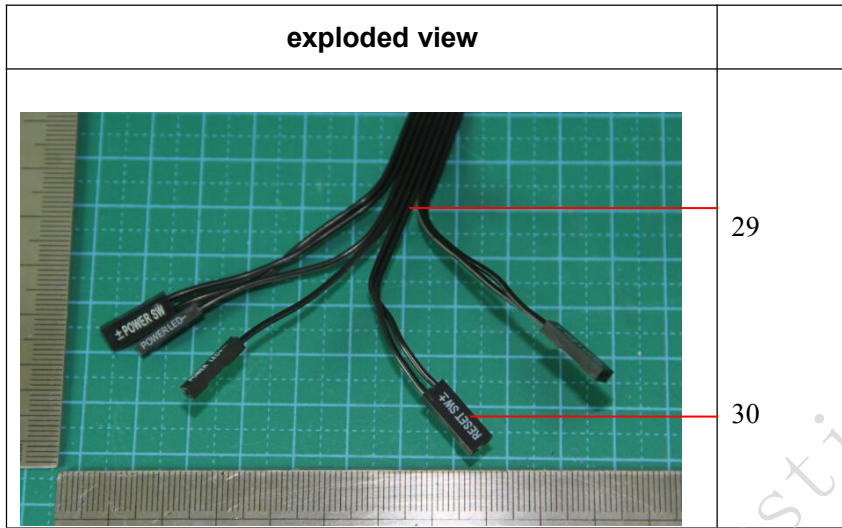
exploded view	
	6 7
	8 9

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exploded view	
	10 11
	12.13 14





*****END*****

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