



# Verification Report

**Applicant** : Shenzhen Onlumi Technology Limited  
**Address** : Room 218, 2F, Building D, YouDingQiChuang Area, NO.62, Heping Road,  
Qinghua Community, Longhua District, Shenzhen, G.D. China 518109

**Report on the submitted samples said to be:**

**Sample Name(s)** : Dimmable Sweep Switch

**Trade Mark** : N/A

**Part No.** : DMSC-H-H5521-20ADBK, DMSC-H-HL813-20ADBK,  
DMSC-H-HL814-20ADBK, DMSC-H-HL822-20ADBK,  
DMSC-H-HMX-20ADBK, DMSC-H-HSM-20ADBK,  
DMSC-H-W5521-20ADBK, DMSC-H-WL813-20ADBK,  
DMSC-H-WL814-20ADBK, DMSC-H-WL822-20ADBK,  
DMSC-H-WMX-20ADBK, DMSC-H-WSM-20ADBK,  
DMSC-H-W5521-20AWW, DMSC-H-WL813-20AWW,  
DMSC-H-WL814-20AWW, DMSC-H-WL822-20AWW,  
DMSC-H-WMX-20AWW, DMSC-H-WSM-20AWW,  
DMSC-W-W5521-20AWW, DMSC-W-WL813-20AWW,  
DMSC-W-WL814-20AWW, DMSC-W-WL822-20AWW,  
DMSC-W-WMX-20AWW, DMSC-W-WSM-20AWW

**Sample Received Date** : March 28, 2022

**Testing Period** : March 28, 2022 ~ April 02, 2022

**Date of Report** : April 02, 2022

**Results** : Please refer to next page(s).

TEST REQUEST	CONCLUSION
As specified by client, based on the performed tests on submitted sample, the result of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, Dibutyl Phthalate(DBP), Butylbenzyl Phthalate(BBP), Di-2-ethylhexyl Phthalate(DEHP) and Diisobutyl phthalate(DIBP) content comply with the limits set by RoHS Directive 2011/65/EU.	PASS

Signed for and on behalf of LCS

Young/Laboratory Manager



Shenzhen LCS Compliance Testing Laboratory Ltd.  
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**Results:****A. EU RoHS Directive 2011/65/EU**

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Sample No.	Sample Description	Results						Date of sample submission/ Resubmission
		Cd	Pb	Hg	Cr <sup>▼</sup>	Br <sup>▼</sup>		
						PBBs	PBDEs	
1	Black plastic shell	BL	BL	BL	BL	BL	BL	2022-03-28
2	Black IC	BL	BL	BL	BL	BL	BL	2022-03-28
3	Black plastic shell	BL	BL	BL	BL	BL	BL	2022-03-28
4	Black diode	BL	BL	BL	BL	BL	BL	2022-03-28
5	Transparent diode	BL	BL	BL	BL	BL	BL	2022-03-28
6	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-03-28
7	Silver sheet metal	BL	BL	BL	BL	/	/	2022-03-28
8	Black plastic sheet	BL	BL	BL	BL	BL	BL	2022-03-28
9	Silver metal shrapnel	BL	BL	BL	BL	/	/	2022-03-28
10	Silver metal pin	BL	BL	BL	BL	/	/	2022-03-28
11	Black capacitor	BL	BL	BL	BL	BL	BL	2022-03-28
12	Black ceramic sheet	BL	BL	BL	BL	BL	BL	2022-03-28
13	Grey resistance	BL	BL	BL	BL	BL	BL	2022-03-28
14	Black IC	BL	BL	BL	BL	BL	BL	2022-03-28
15	PCB board	BL	BL	BL	BL	BL	BL	2022-03-28
16	Tin solder	BL	BL	BL	BL	/	/	2022-03-28
17	Silver metal needle	BL	BL	BL	BL	/	/	2022-03-28
18	Silver metal shell	BL	BL	BL	BL	/	/	2022-03-28
19	Black plastic ring	BL	BL	BL	BL	BL	BL	2022-03-28
20	Black plastic cover	BL	BL	BL	BL	BL	BL	2022-03-28
21	Black plastic wire sleeve	BL	BL	BL	BL	BL	BL	2022-03-28
22	Copper colored metal core	BL	BL	BL	BL	/	/	2022-03-28
23	Silver metal ring	BL	BL	BL	BL	/	/	2022-03-28
24	Silver metal column	BL	BL	BL	BL	/	/	2022-03-28
25	Black plastic cover	BL	BL	BL	BL	BL	BL	2022-03-28



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## Note:

1. Results were obtained by XRF for primary screening, and further chemical testing by ICP(for Cd, Pb, Hg), UV-Vis(for Cr(VI)) and GC-MS(for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013(Unit: mg/kg).

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	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$
Br	$BL \leq (300-3\sigma) < X$	N/A	$BL \leq (250-3\sigma) < X$

## Remark:

- BL= Below Limit
  - OL= Over Limit
  - X= The range of needing to do further testing
  - $3\sigma$ = The reproducibility of analytical instruments
  - N/A= Not applicable
  - LOD= Detection limit
2. The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
  3. The maximum permissible limit is quoted from the document RoHS Directive 2011/65/EU.
  4. ▼=For restricted substances PBBs and PBDEs, the results show the total Br content, the restricted substance was Cr(VI), and the results showed the total Cr content.



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RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium(Cd)	100
Lead(Pb)	1000
Mercury(Hg)	1000
Hexavalent Chromium(Cr(VI))	1000
Polybrominated biphenyls(PBBs)	1000
Polybrominated diphenylethers(PBDEs)	1000
Dibutyl Phthalate(DBP)	1000
Butylbenzyl Phthalate(BBP)	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	1000
Diisobutyl phthalate(DIBP)	1000

**Disclaimers:**

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes. The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.



**B. EU RoHS Directive 2011/65/EU on DBP, BBP, DEHP & DIBP content**

Test method:

Phthalates(DBP, BBP, DEHP &DIBP) Content:

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

**1) The test results of Phthalates(DBP, BBP, DEHP &DIBP)**

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		1+2+3+4+5+6	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		8+11+12+13+14+15	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Tested Items	MDL (mg/kg)	Results (mg/kg)	Limit (mg/kg)
		19+20+21+25	
Dibutyl Phthalate(DBP) Content	600	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	600	N.D.	1000
Diisobutyl phthalate(DIBP) Content	600	N.D.	1000

Note:

- MDL = Method Detection Limit
- N.D.=Not Detected(<MDL)
- mg/kg = ppm=parts per million
- According to customer's requirement, only the appointed materials have been tested.

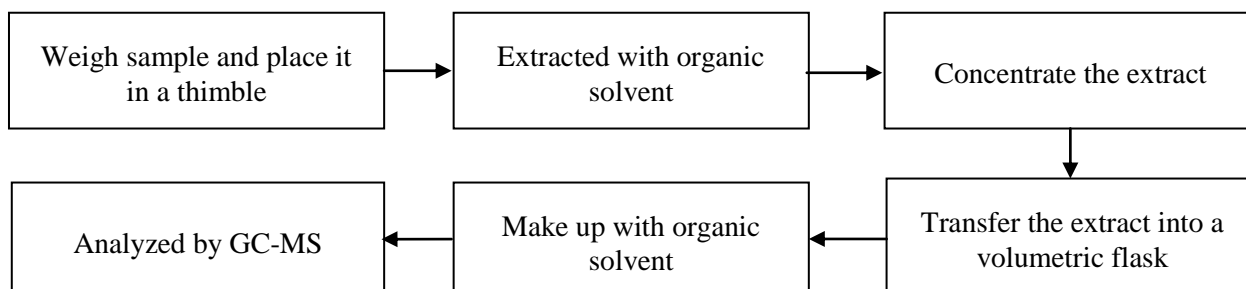




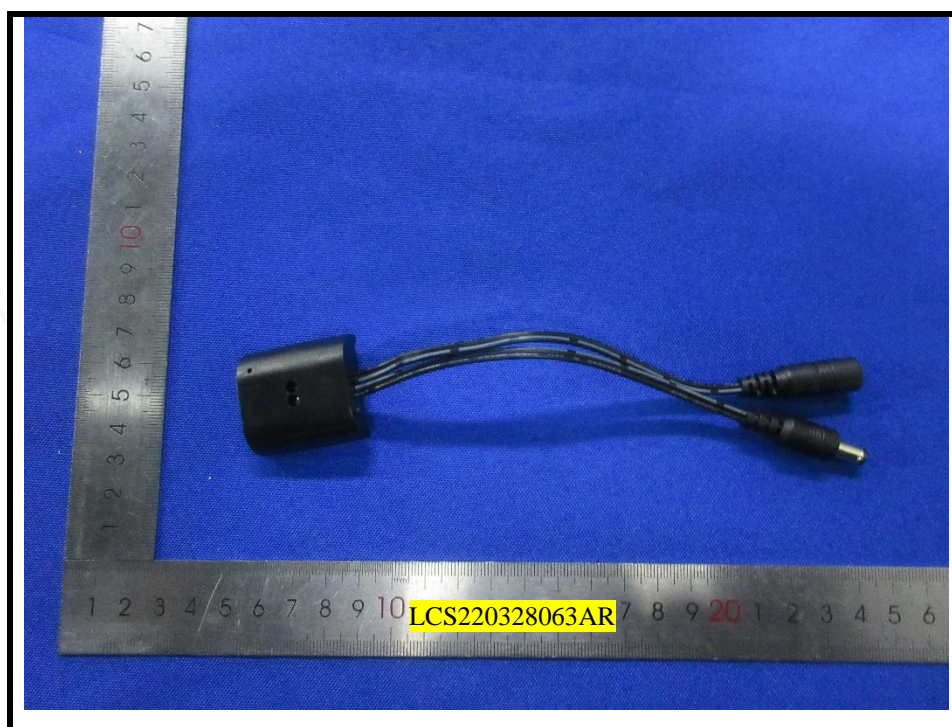


## Test Process

### 1. Phthalates(DBP, BBP, DEHP & DIBP) : IEC 62321-8:2017



## The photo(s) of the sample

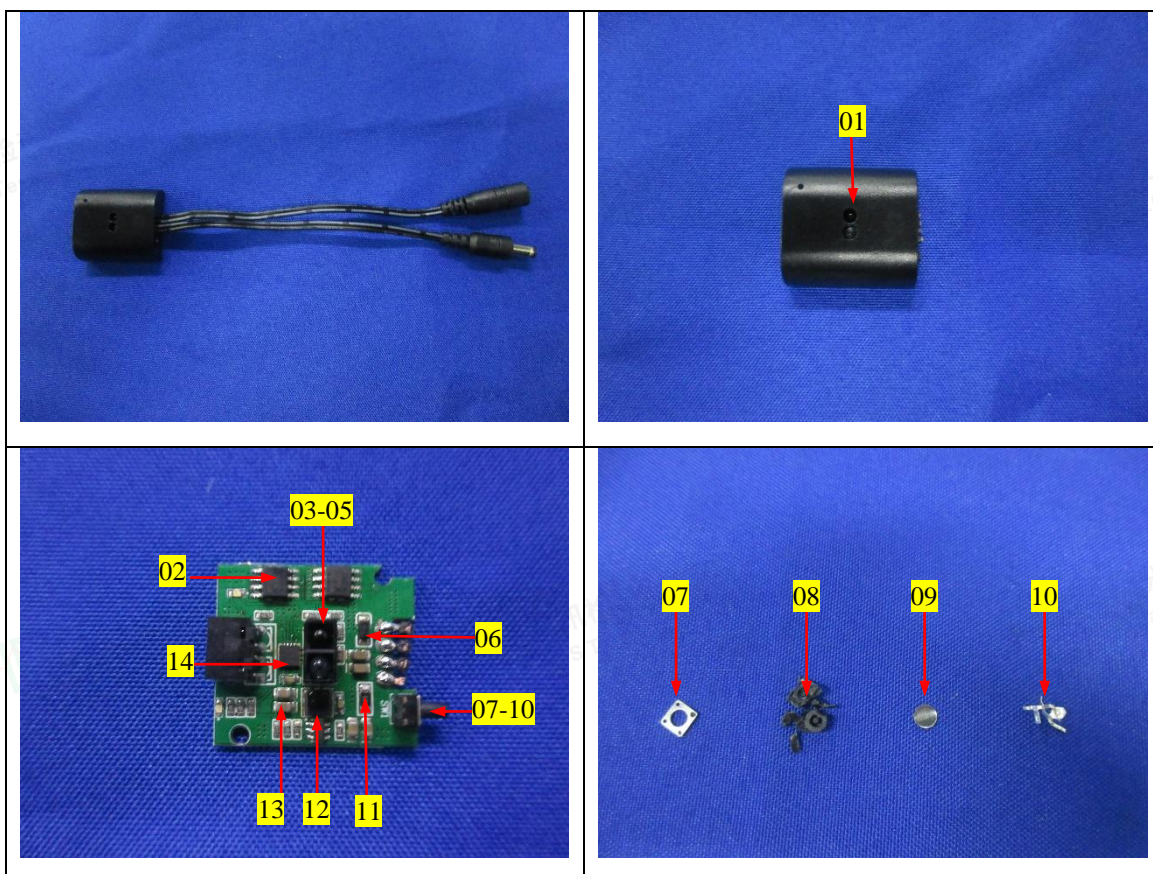
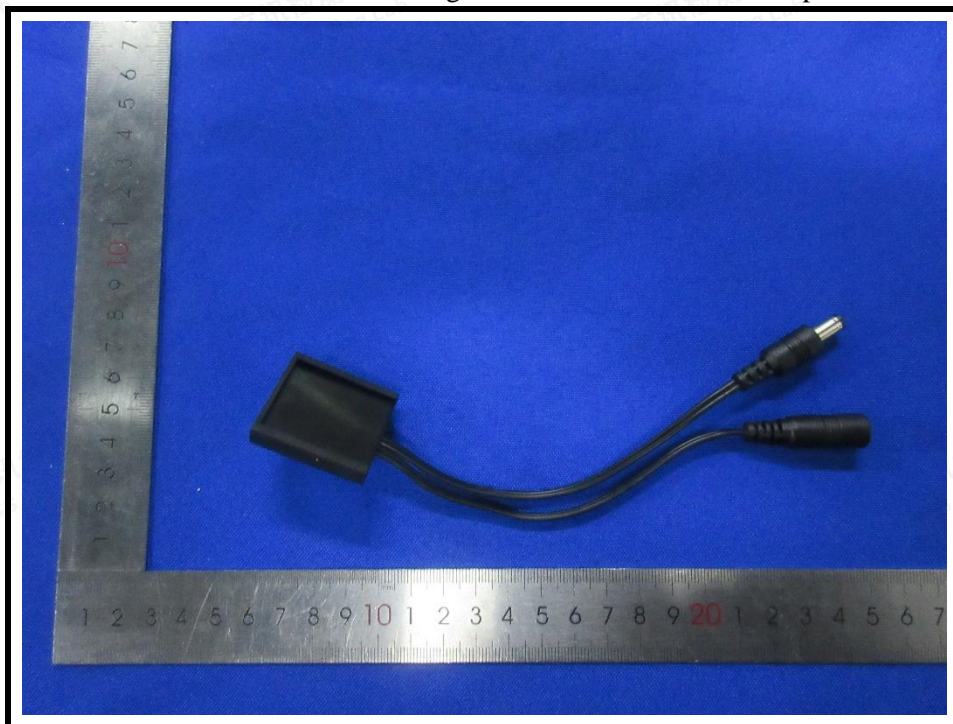


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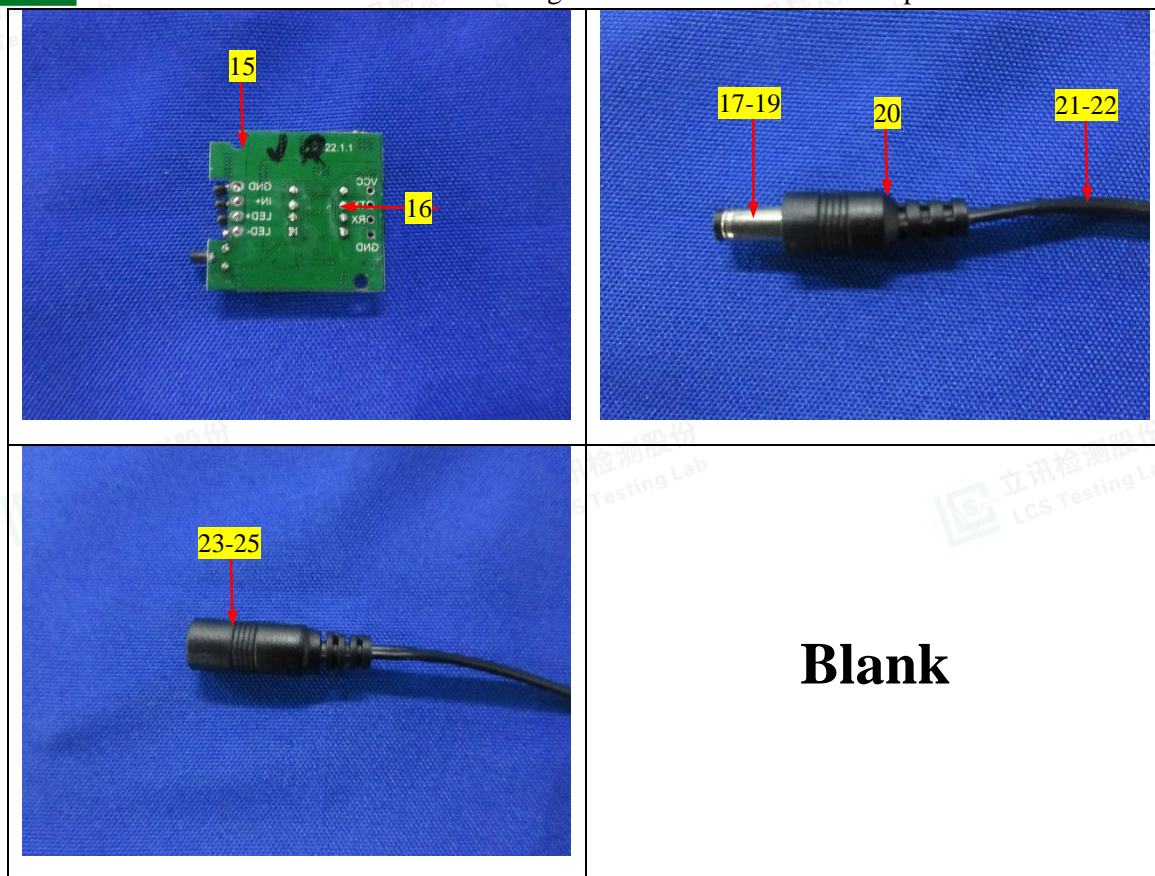
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\*\*\* End of Report \*\*\*



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