

Test Report

Applicant: GuangZhou STS Lighting Equipment Co.,Ltd.
No.251 Tingshi North Road Chaoyang Shijing Town Baiyun District
Guangzhou China

Report on the submitted sample(s) said to be:

Sample Name: Lighting Equipment
Model: IP WASH BAR I, IP WALL 500/300, IP WASH BAR II, P WASH 124IP,
P WASH 188IP/1886IP, P WASH 5403IP, C PAR 68T IP,
IP C PAR 50C/50T/50CW, IP C PAR 100C/100T/100CW,
IP P WASH 1810/18104/18105/18106, IP WASH BAR 384

Trade Mark: STSLITE

Date of Test: June 03, 2019 - June 12, 2019

Date of Report: June 12, 2019

Test Requested: Base upon the performed tests by submitted sample, the test results comply with the limits as set by Directive (EU) 2015/863 - Amendment of EU RoHS Directive (EU) 2017/2102 (RoHS 2.0) Annex II.

Test Method: Please refer to the following page(s).

Test Result(s): Please refer to the following page(s).

Checked By:

Nana Lin

(Nana Lin)

Approved By:

Coco Tang

(Coco Tang)



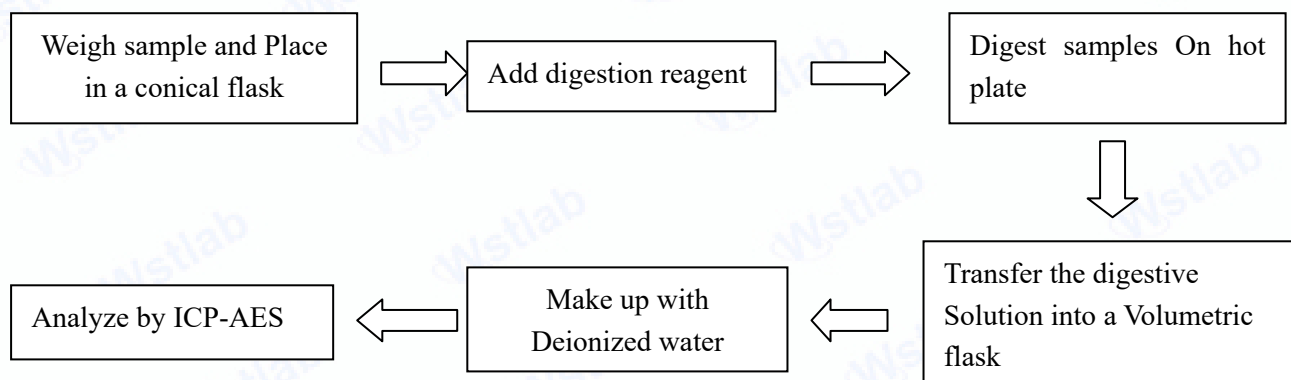
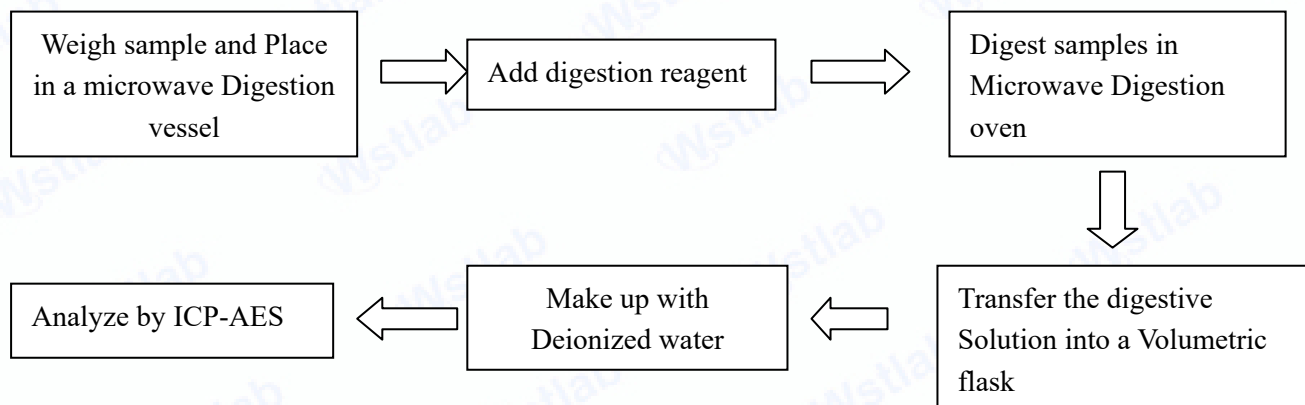
Test Method:

(1) With reference to IEC 62321:2008

Testing item	Pretreatment method	Measuring instrument	MDL
Lead(Pb)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Cadmium(Cd)	IEC 62321-5: 2013	ICP-OES	2 mg/kg
Mercury(Hg)	IEC 62321-4: 2013	ICP-OES	2 mg/kg
Chromium(Cr VI)	IEC 62321:2008	UV-VIS	2 mg/kg
PBBs/ PBDEs	IEC 62321-6:2015	GC-MS	5 mg/kg

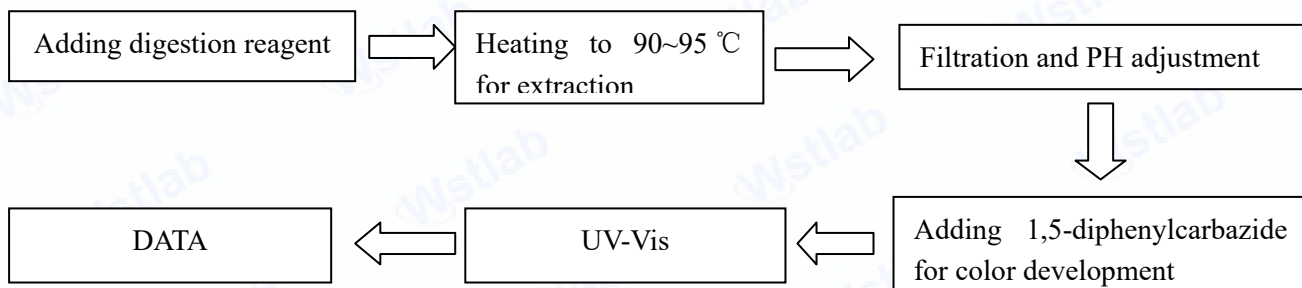
(2) With reference to EN 14372:2004

Testing item	Pretreatment method	Measuring instrument	MDL
DEHP, DBP, BBP, DIBP	EN 14372:2004	GC-MS	0.003 mg/kg

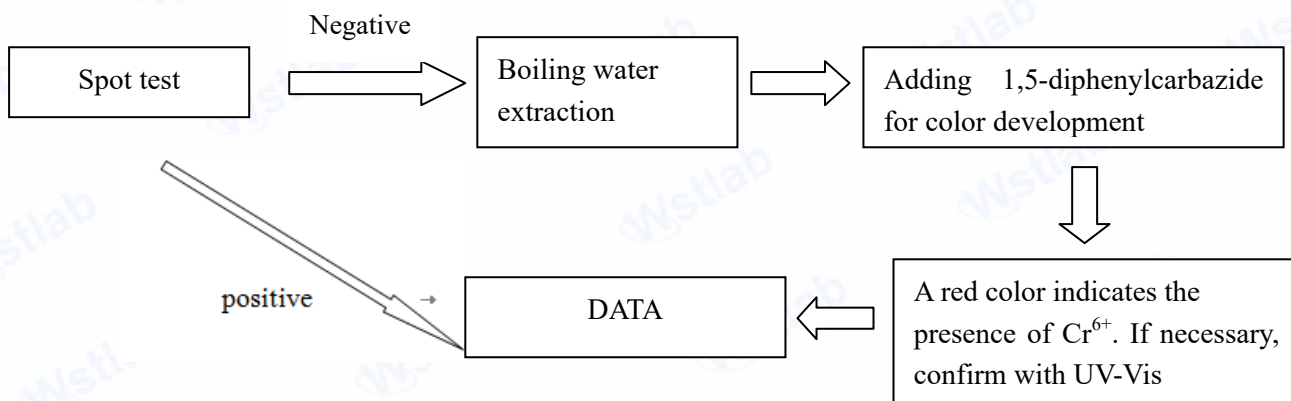
Test Process:**1. Test for Cd/Pb Content****2. Test for Hg Content**

3. Test for Chromium(VI) Content

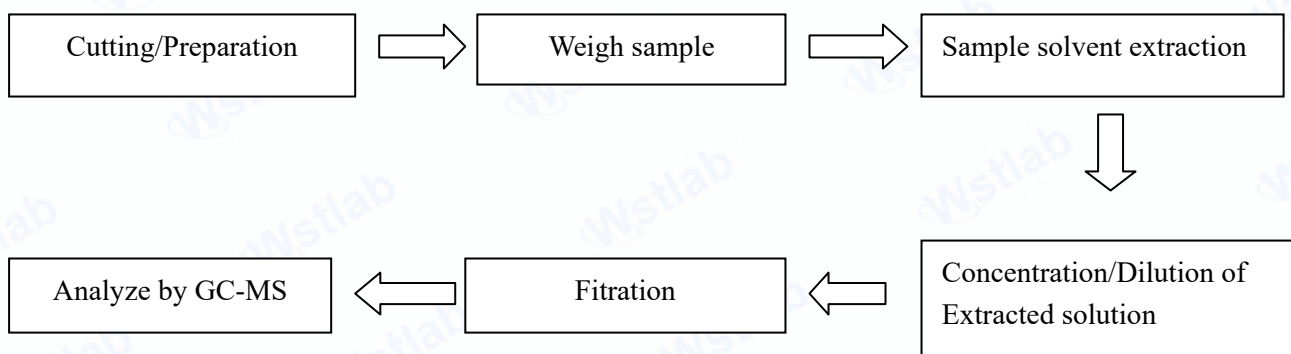
Nonmetallic material



Metallic material



4. Test for DBP, BBP, DEHP, DIHP, DIBP, PBB, PBDE Content



Test Results:

Testing Item	Unit	ROHS Limit	Result					
			1	2	3	4	5	6
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	/	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromobiphenyl	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	/	N.D.	N.D.	N.D.	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	-	/	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	1000	/	N.D.	N.D.	N.D.	N.D.	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	/	N.D.	N.D.	N.D.	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	/	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	/	N.D.	N.D.	N.D.	N.D.	N.D.

Sample Description:

- 1: Hardware
- 2: Waterproof Strips
- 3: The Power Supply
- 4: Power Cord
- 5: Signal Head
- 6: Adapter

Testing Item	Unit	ROHS Limit	Result					
			7	8	9	10	11	12
Lead(Pb)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Sum of PBBs	mg/kg	1000	N.D.	N.D.	/	/	N.D.	N.D.
Monobromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Dibromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Tribromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Tetrabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Pentabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Hexabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Heptabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Octabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Nonabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Decabromobiphenyl	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Sum of PBDEs	mg/kg	1000	N.D.	N.D.	/	/	N.D.	N.D.
Monobromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Dibromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Tribromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Tetrabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Pentabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Hexabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Heptabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Octabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Nonabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Decabromodiphenyl ether	mg/kg	-	N.D.	N.D.	/	/	N.D.	N.D.
Diisobutyl phthalate (DIBP)	mg/kg	1000	N.D.	N.D.	/	/	N.D.	N.D.
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	N.D.	N.D.	/	/	N.D.	N.D.
Benzylbutyl Phthalate (BBP)	mg/kg	1000	N.D.	N.D.	/	/	N.D.	N.D.
Dibutyl Phthalate (DBP)	mg/kg	1000	N.D.	N.D.	/	/	N.D.	N.D.

Sample Description:

7: wire

8: caron

9: lens

10: copper cylinder

11: rubber pad

12: circuit board

Testing Item	Unit	ROHS Limit	Result					
			13	14	/	/	/	/
Lead(Pb)	mg/kg	1000	N.D.	N.D.	/	/	/	/
Cadmium(Cd)	mg/kg	100	N.D.	N.D.	/	/	/	/
Mercury(Hg)	mg/kg	1000	N.D.	N.D.	/	/	/	/
Chromium(Cr VI)	mg/kg	1000	N.D.	N.D.	/	/	/	/
Sum of PBBs	mg/kg	1000	/	/	/	/	/	/
Monobromobiphenyl	mg/kg	-	/	/	/	/	/	/
Dibromobiphenyl	mg/kg	-	/	/	/	/	/	/
Tribromobiphenyl	mg/kg	-	/	/	/	/	/	/
Tetrabromobiphenyl	mg/kg	-	/	/	/	/	/	/
Pentabromobiphenyl	mg/kg	-	/	/	/	/	/	/
Hexabromobiphenyl	mg/kg	-	/	/	/	/	/	/
Heptabromobiphenyl	mg/kg	-	/	/	/	/	/	/
Octabromobiphenyl	mg/kg	-	/	/	/	/	/	/
Nonabromobiphenyl	mg/kg	-	/	/	/	/	/	/
Decabromobiphenyl	mg/kg	-	/	/	/	/	/	/
Sum of PBDEs	mg/kg	1000	/	/	/	/	/	/
Monobromodiphenyl ether	mg/kg	-	/	/	/	/	/	/
Dibromodiphenyl ether	mg/kg	-	/	/	/	/	/	/
Tribromodiphenyl ether	mg/kg	-	/	/	/	/	/	/
Tetrabromodiphenyl ether	mg/kg	-	/	/	/	/	/	/
Pentabromodiphenyl ether	mg/kg	-	/	/	/	/	/	/
Hexabromodiphenyl ether	mg/kg	-	/	/	/	/	/	/
Heptabromodiphenyl ether	mg/kg	-	/	/	/	/	/	/
Octabromodiphenyl ether	mg/kg	-	/	/	/	/	/	/
Nonabromodiphenyl ether	mg/kg	-	/	/	/	/	/	/
Decabromodiphenyl ether	mg/kg	-	/	/	/	/	/	/
Diisobutyl phthalate (DIBP)	mg/kg	1000	/	/	/	/	/	/
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	1000	/	/	/	/	/	/
Benzylbutyl Phthalate (BBP)	mg/kg	1000	/	/	/	/	/	/
Dibutyl Phthalate (DBP)	mg/kg	1000	/	/	/	/	/	/

Sample Description:

13: lamp bead

14: aluminium substrate

Notes:

1mg/kg=1ppm = 0.0001%

N.D. = Not Detected (<MDL)

MDL = Method Detection Limit

/=Not Regulated

Breakdown of product

Photo 1



Photo 2



-----End of report -----