

A2180040662101001 Report No.

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Applicant

FOSHAN BLUE ROCKET ELECTRONICS CO..LTD

**Address** 

NO.45 GUXIN ROAD, CHANCHENG DISTRICT, FOSHAN, GUANGDONG, P.R.C..

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name

Monochrome led(White)

Sample Received Date

Apr. 2, 2018

**Testing Period** 

Apr. 2, 2018 to Apr. 4, 2018

**Test Requested** 

As specified by client, to test Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl

Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted

sample(s).

**Test Method** 

Please refer to the following page(s).

Test Result(s)

Please refer to the following page(s).

Conclusion

**Tested Sample** According to directive

Result

Submitted Sample

RoHS Directive 2011/65/EU with amendment (EU) 2015/863

Pass

Pass means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.

\*

Reviewed by

Apr. 4, 2018

Qinghong Wan

Technical Manager

No. R186115762

Centre Testing International Group Co., Ltd. Shunde Branch ng Building, Section 2, No.8, East of Rongqi Avenue, Ronggui, Shunde District, Foshan, Guangdong, China

Date



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### **Test Method**

Test Method	Measured Equipment(s)
IEC 62321-5:2013	ICP-OES
IEC 62321-5:2013	ICP-OES
IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
IEC 62321-6:2015	GC-MS
IEC 62321-6:2015	GC-MS
IEC 62321-8:2017	GC-MS
	IEC 62321-5:2013  IEC 62321-5:2013  IEC 62321-4:2013+AMD1:2017 CSV  IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013  IEC 62321-6:2015  IEC 62321-6:2015







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Test Result(s)

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Tested Item(s)	Result	MDL	Limit
Lead(Pb)	N.D.	2 mg/kg	1000 mg/kg
Cadmium(Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury(Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium(Cr(VI))	N.D.	8 mg/kg	1000 mg/kg
Tested Item(s)	Result	MDL	Limit
Polybrominated Biphenyls(PBBs)		/	(ii)
Monobromobiphenyl	N.D.	5 mg/kg	37)
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg	0
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	-0
Nonabromobiphenyl	N.D.	5 mg/kg	40
Decabromobiphenyl	N.D.	5 mg/kg	
Tested Item(s)	Result	MDL	Limit
Polybrominated Diphenyl Ethers (PBD	DEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg	
Dibromodiphenyl ether	N.D.	5 mg/kg	6
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg	3(1)
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	/0
Decabromodiphenyl ether	N.D.	5 mg/kg	(4













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### Test Result(s)

Tested Item(s)	Result	MDL	Limit
Phthalates (DBP, BBP, DEHP, DIBP)			
Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate(DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

**Tested Sample/Part Description** 

LED body(Tested as a whole)

Remark:

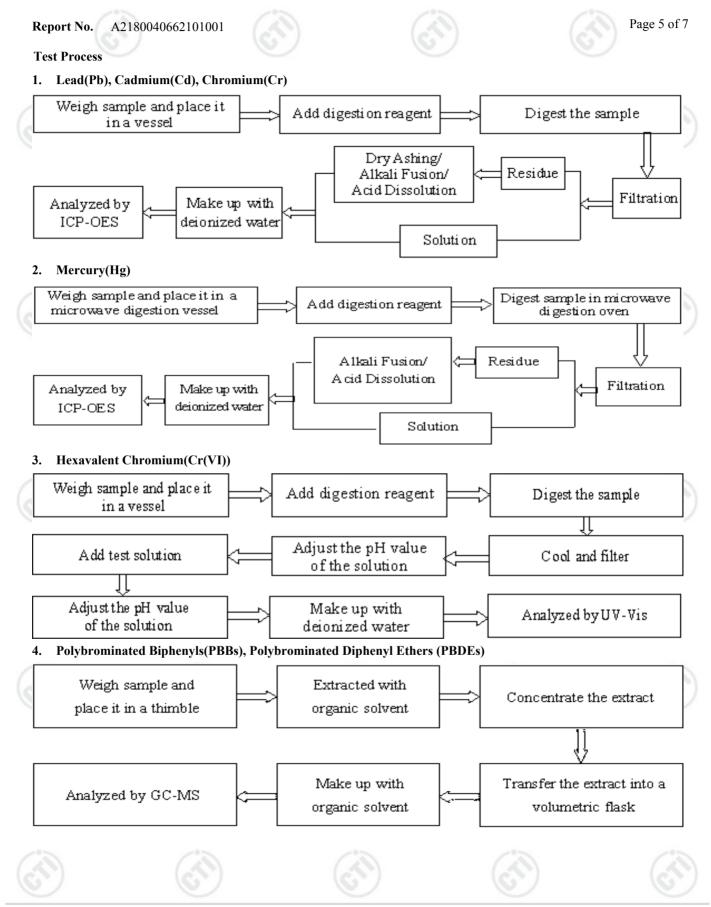
- -The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.
- -The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology.

The result(s) shown on this report may be different from the content of any homogeneous material.

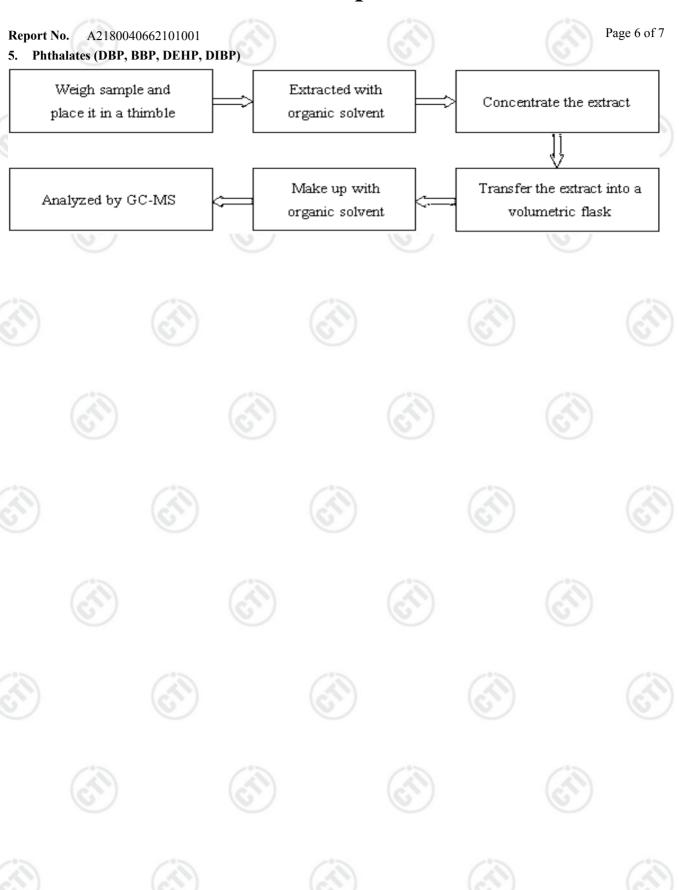
- -MDL = Method Detection Limit
- -N.D. = Not Detected (< MDL)
- -mg/kg = ppm = parts per million













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### Photo(s) of the sample(s)



\*\*\* End of report \*\*\*

#### Statement:

- 1. This report is considered invalidated without approval signature, special seal and the seal on the perforation;
- 2. The sample(s) and sample information was/were provided by the client who should be responsible for the autenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if genrated), the Chinese version shall prevail.

