



# Test Report

Report No. A2220247487101002

Company Name shown on Report GUANGDONG QUEENDOM GROUP TECHNOLOGY CO., LTD

Address 302,NO.5,XINJI NORTH ROAD,DAFEN,WANJIANG STREET,DONGGUAN CITY, GUANGDONG PROVINCE

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

Sample Name Light-emitting diode  
Part No. 3MM Round, 5MM Round, 257 square, 2835, 0603  
Color white, red  
Sample Received Date Jun. 17, 2022  
Testing Period Jun. 17, 2022 to Jun. 21, 2022

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)) in the submitted sample(s).

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

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



Tested by

*Frank Zhang*

Approved by

*Hill Zheng*

Hill Zheng  
Technical Manager

Reviewed by

*Tori Xia*

Date

Jun. 21, 2022

No. R228411511

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

# Test Report

Report No. A2220247487101002

Page 2 of 4

## Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis

## Test Result(s)

Tested Item(s)	Result	MDL
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. ▼	0.10 µg/cm <sup>2</sup> (LOQ)

**Sample/Part Description** Mixed test, metal pin with silvery plating

**Remark:** -The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.  
 -As specified by client, the test was conducted by mixing several samples together.  
 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 or LOQ)

-mg/kg = ppm = parts per million

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm<sup>2</sup>

-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm<sup>2</sup>. The coating is considered a non-Cr(VI) based coating.



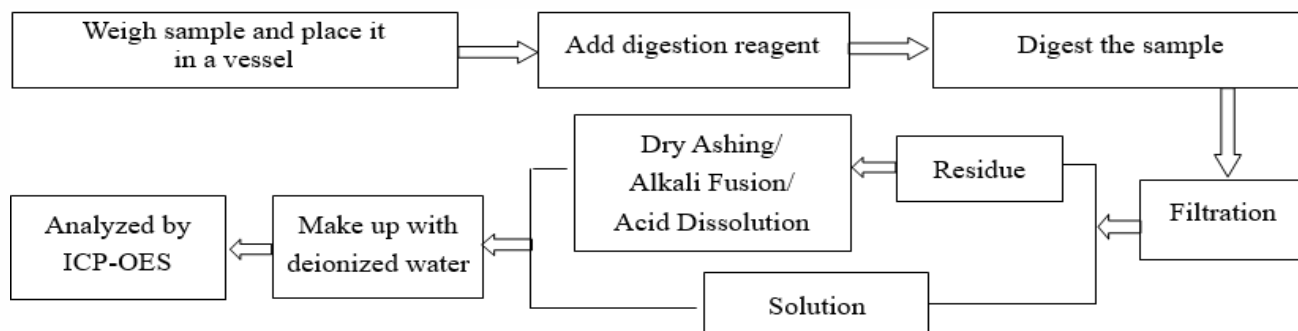
# Test Report

Report No. A2220247487101002

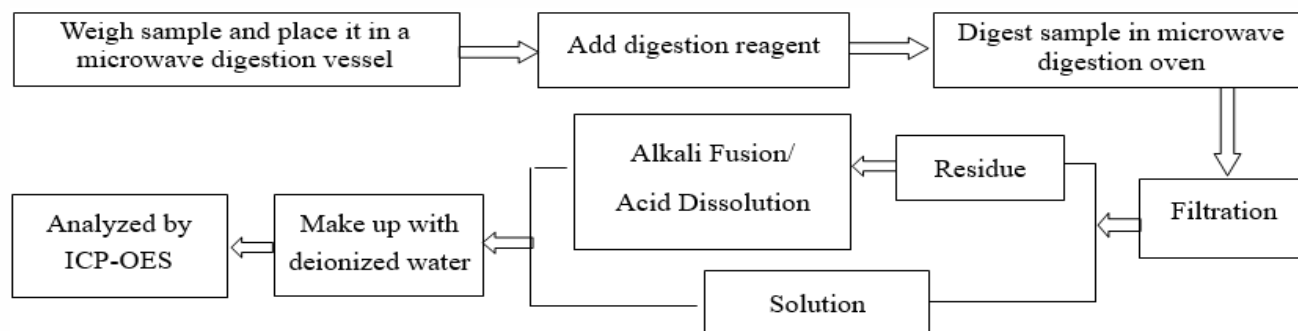
Page 3 of 4

## Test Process

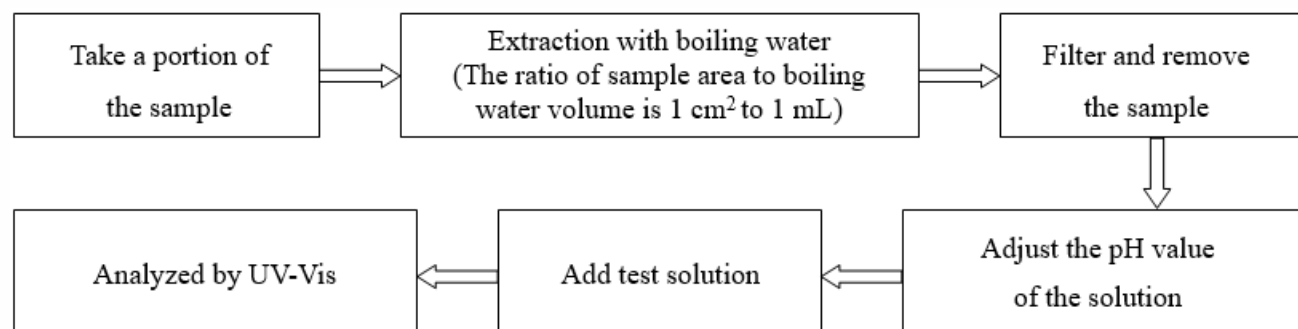
### 1. Lead (Pb), Cadmium (Cd)



### 2. Mercury (Hg)



### 3. Hexavalent Chromium (Cr(VI))

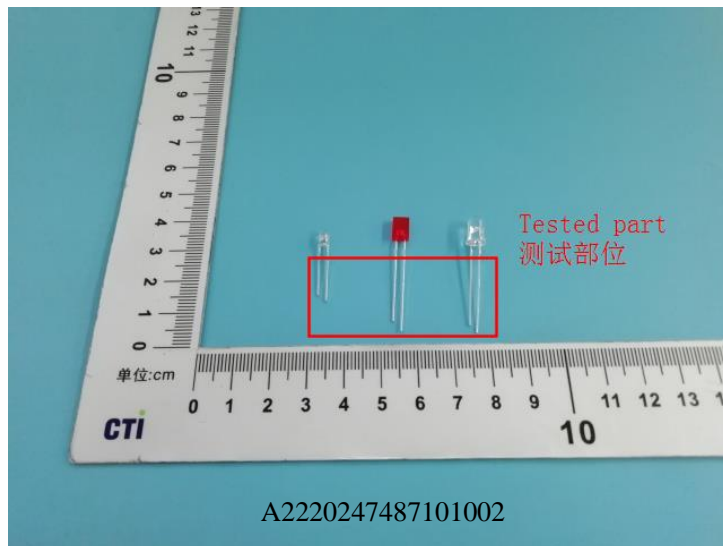


# Test Report

Report No. A2220247487101002

Page 4 of 4

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



### Statement:

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity 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 generated), the Chinese version shall prevail.

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

