

Test Report

No.: CANEC26026462937

Date: Sep 29, 2026

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Client Name: GUANGZHOU TIANXIN PHOTOELETRIC CO.,LTD  
Client Address: #15-1, JINGU ROAD SOUTH,XIUTANG,HUADONG TOWN,HUADU DISTRICT  
GUANGZHOU

Sample Name: Automotive LED with ceramic substrate  
The above sample(s) and information were provided by the client.

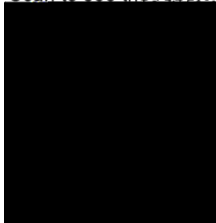
SGS Job No.: GZP26-029299  
Sample Receiving Date: Sep 14, 2026  
Testing Period: Sep 14, 2026 ~ Sep 22, 2026  
Test Requested: Select test(s) as requested by the client.  
Test Method(s): Please refer to next page(s).  
Test Result(s): Please refer to next page(s).

| Test Requirement                                                                                                                                                                                                                                                                                                          | Conclusion |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass       |

Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Arsene Ye  
Approved Signatory

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## Test Result(s):

### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                                                  |
|-------|------------|-------------------------|--------------------------------------------------------------|
| SN1   | A13        | CAN26-0264629-0001.C013 | Light grey sheet w/ copper-colored, white and yellow surface |

### Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

**Test Method:** With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

|              |  |
|--------------|--|
| Test Item(s) |  |
|--------------|--|

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| Test Item(s)                            | Limit | Unit(s) | MDL | A13 |
|-----------------------------------------|-------|---------|-----|-----|
| Octabrominated diphenyl ether (OctaBDE) | -     | mg/kg   | 25  | ND  |
| Nonabrominated diphenyl ether (NonaBDE) | -     | mg/kg   | 25  | ND  |
| Decabrominated diphenyl ether (DecaBDE) | -     | mg/kg   | 25  | ND  |
| Di-2-Ethyl Hexyl Phthalate (DEHP)       | 1000  | mg/kg   | 50  | ND  |
| Butyl benzyl phthalate (BBP)            | 1000  | mg/kg   | 50  | ND  |
| Dibutyl Phthalate (DBP)                 | 1000  | mg/kg   | 50  | ND  |
| Diisobutyl Phthalate (DIBP)             | 1000  | mg/kg   | 50  | ND  |

### Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

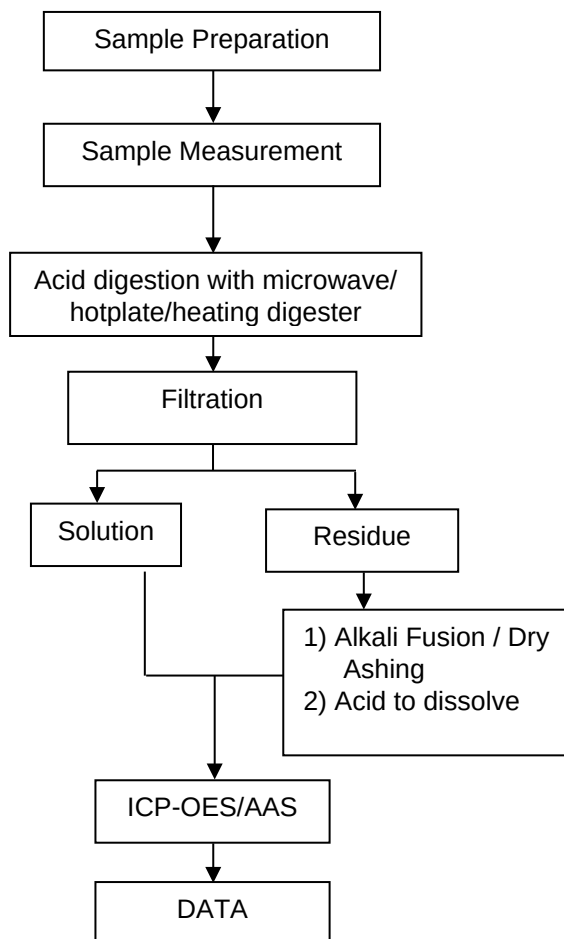
(2) IEC 62321 series is equivalent to EN 62321 series.

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.

### Elements Testing Flow Chart

These samples of Pb/Cd/Hg were dissolved totally by pre-conditioning method according to below flow chart.



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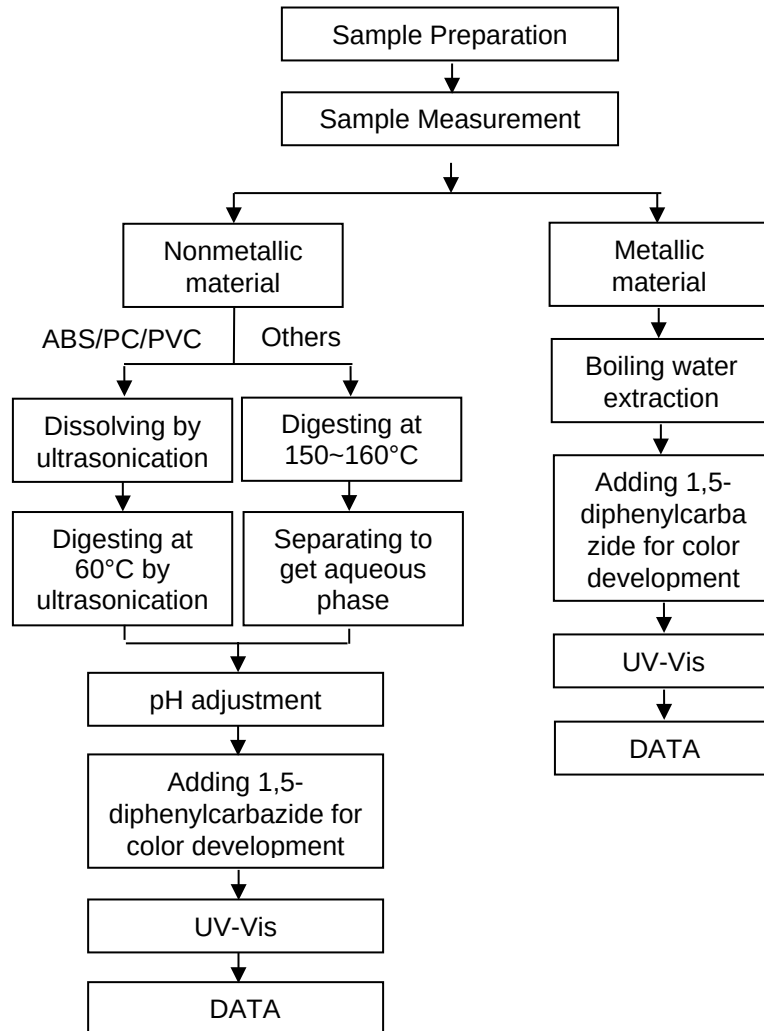
## ATTACHMENTS

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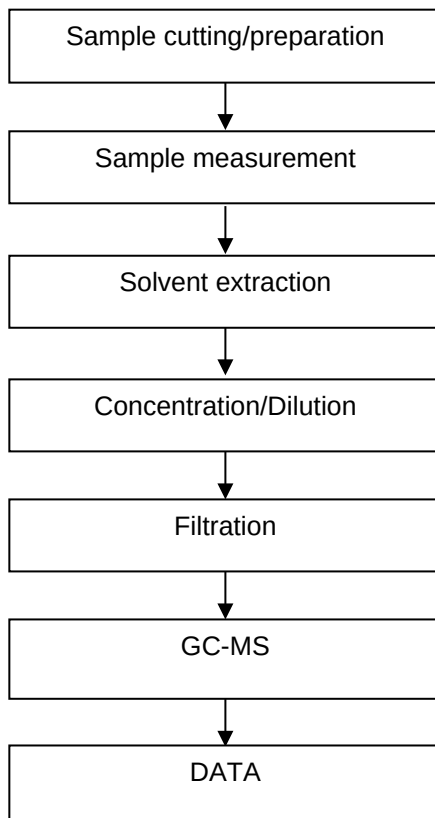
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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart



**PBB(s)/PBDE(s)/Phthalates Testing Flow Chart**



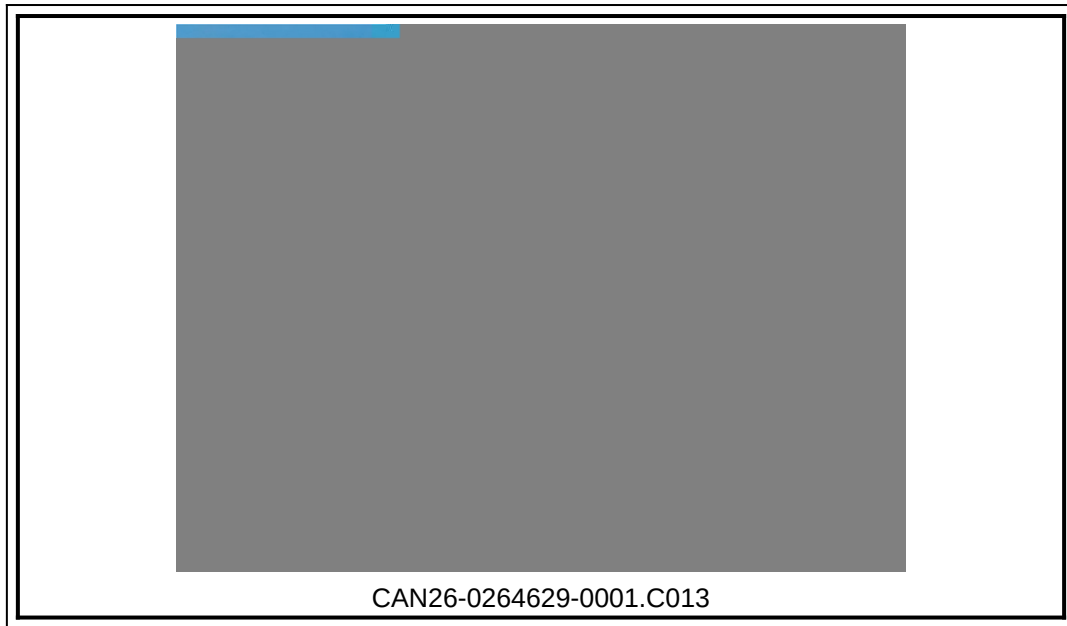
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**Sample Photo:**



SGS authenticate the photo on original report only  
\*\*\* End of Report \*\*\*

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