

## Test Report

No.: CANEC25001184831

Date: Feb 14, 2025

Page 1 of 7

Client Name: SHENZHEN CHENGXING ELECTRONIC TECHNOLOGY CO LTD

Client Address: ROOM 1405-07, BLOCK A, JIAHE BUILDING, SHENNAN MIDDLE ROAD, FUTIAN DISTRICT, SHENZHEN

Sample Name: RGB LED

Model No.: XL-Z3535RGBA-SG

Client Ref. Information: XL-B1010RGBT-HF, XL-B1212RGBA-HF, XL-B1515RGBA-HF, XL-B2020RGBA-HF, XL-Z1415RGBA-SG, XL-Z1921RGBA-SF, XL-Z1921RGBA-SG, XL-Z2727RGBA-SG, XL-Z3535RGBA-SG, XL-M09RGBA-HF, XL-3510RGBA-SG

The above sample(s) and information were provided by the client.

SGS Job No.: GZP25-000874

Sample Receiving Date: Jan 14, 2025

Testing Period: Jan 14, 2025 ~ Jan 25, 2025

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

Annie Ren

Annie Ren

Approved Signatory

Scan to see the report



9F69FC3C



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.  
**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com**

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

## Test Report

No.: CANEC25001184831

Date: Feb 14, 2025

Page 2 of 7

### Test Result(s):

#### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description |
|-------|------------|-------------------------|-------------|
| SN1   | A14        | CAN25-0011848-0001.C014 | " RGB LED " |

#### 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)                              | Limit | Unit(s) | MDL | A14 |
|-------------------------------------------|-------|---------|-----|-----|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | ND  |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND  |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND  |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND  |
| Polybrominated biphenyls (PBB)            | 1000  | mg/kg   | -   | ND  |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 25  | ND  |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 25  | ND  |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 25  | ND  |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 25  | ND  |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 25  | ND  |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 25  | ND  |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 25  | ND  |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 25  | ND  |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 25  | ND  |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 25  | ND  |
| Polybrominated diphenyl ethers (PBDE)     | 1000  | mg/kg   | -   | ND  |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 25  | ND  |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 25  | ND  |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 25  | ND  |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 25  | ND  |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 25  | ND  |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 25  | ND  |
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 25  | ND  |



SGS-CSTC Standards Technical Service Co., Ltd.  
Guangzhou Branch: Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.  
**Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)**

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 [www.sgs.com](http://www.sgs.com)  
t (86-20) 82155555 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)

## Test Report

No.: CANEC25001184831

Date: Feb 14, 2025

Page 3 of 7

| Test Item(s)                            | Limit | Unit(s) | MDL | A14 |
|-----------------------------------------|-------|---------|-----|-----|
| 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  |
| Benzyl Butyl 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

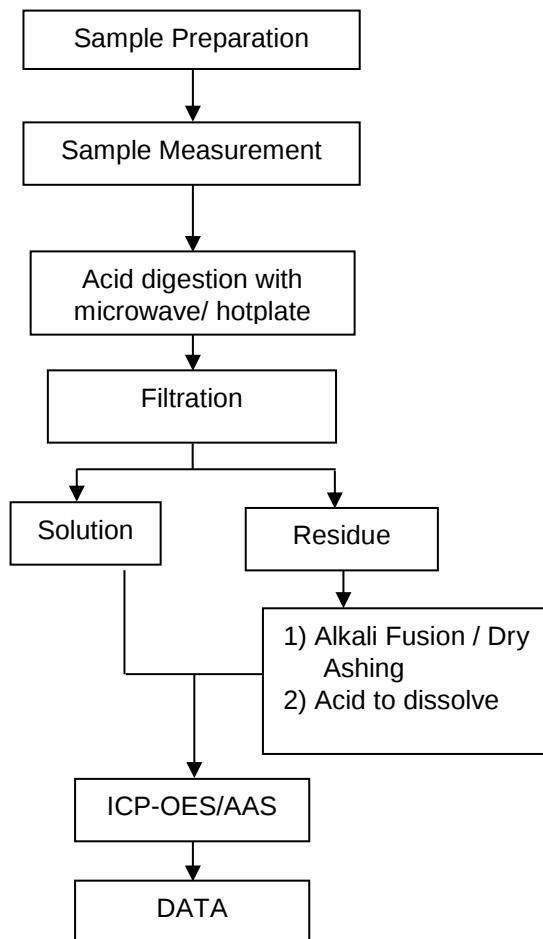
SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Laboratory

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
t (86-20) 82155555 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

### Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



## Test Report

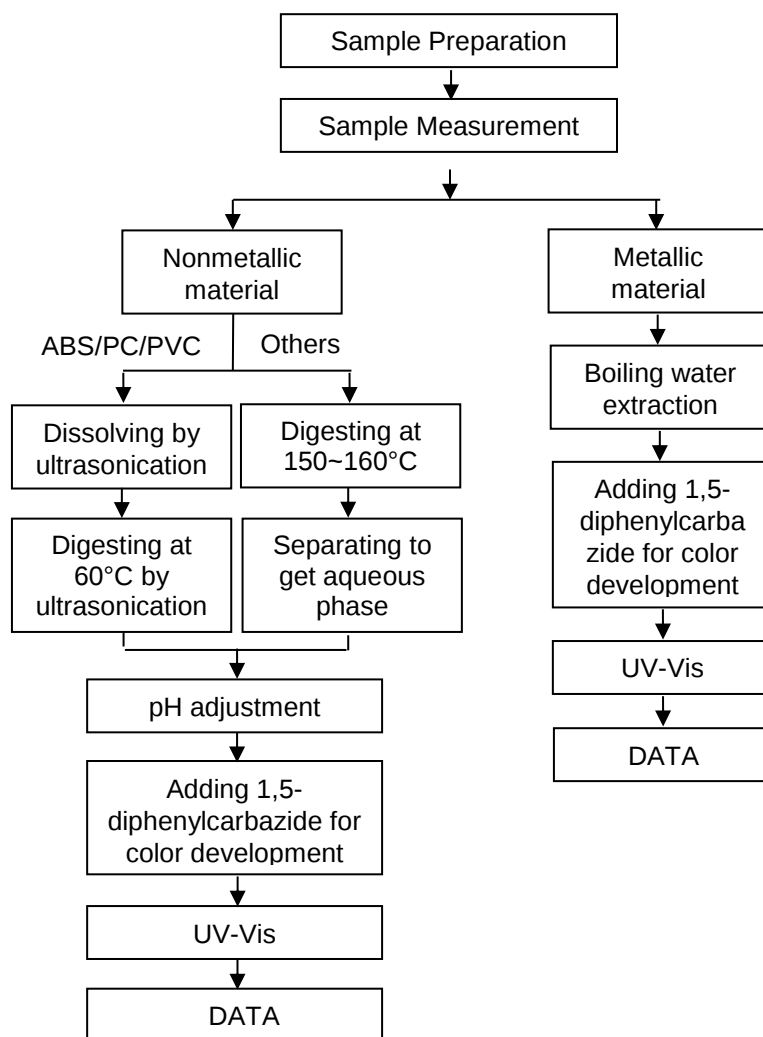
### ATTACHMENTS

No.: CANEC25001184831

Date: Feb 14, 2025

Page 5 of 7

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



SGS-CSI Standards Technical Service Co., Ltd.  
Guangzhou Branch Technical Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.  
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgs.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

## Test Report

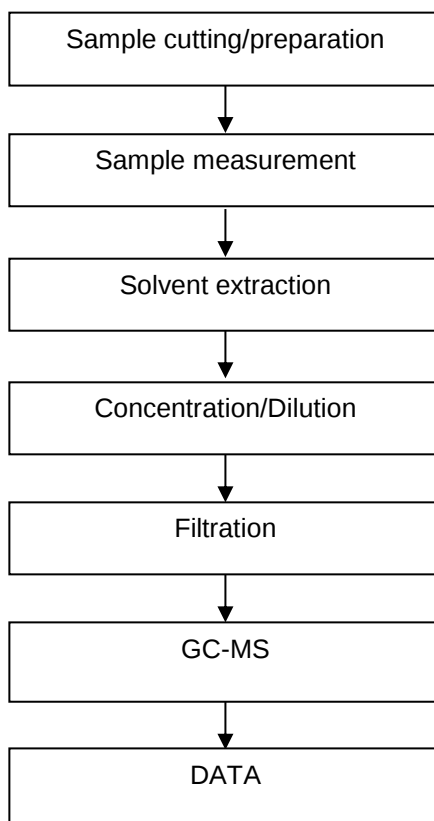
### ATTACHMENTS

No.: CANEC25001184831

Date: Feb 14, 2025

Page 6 of 7

### PBB/PBDE/Phthalates Testing Flow Chart



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.  
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 www.sgsgroup.com.cn  
t (86-20) 82155555 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

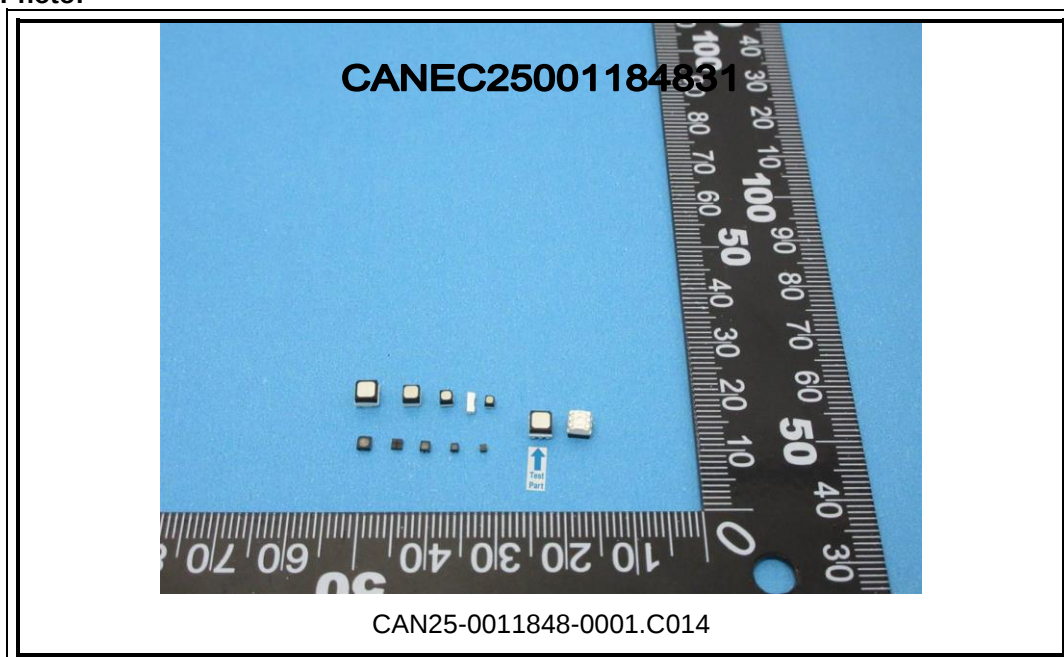
## Test Report

No.: CANEC25001184831

Date: Feb 14, 2025

Page 7 of 7

Sample Photo:



SGS authenticate the photo on original report only

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



SGS-CST Standards Technical Services Co., Ltd.  
Guangzhou Branch Technical Laboratory

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663  
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663

t (86-20) 82155555 [www.sgsgroup.com.cn](http://www.sgsgroup.com.cn)  
t (86-20) 82155555 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Member of the SGS Group (SGS SA)