



**CENTRE OF TESTING SERVICE  
INTERNATIONAL**

**OPERATE ACCORDING TO ISO/IEC 17025**

# **TEST REPORT**

**RoHS 2011/65/EU**

**Test Report Number : CGZ3131230-04015-C-R1**



**CTS (Ningbo) Testing Service Technology Co., Ltd.**

**Fl.2 South Huoju Building, No.181 Canghai Rd., Jiangdong High-tech Park, Ningbo China**

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### 1 General Information

#### 1.1 Application Details

Name : Shenzhen Aglare Lighting Co., Ltd.  
Address : Factory A, Supply and Marketing Cooperative Industrial Park,  
Guanlan Avenue, Guanlan Town, Bao'an District, Shenzhen City,  
Guangdong, China  
Contact : Cheng Jun  
Telephone : +86-755-88868631  
Fax : +86-27659398  
Mobile telephone : 13902981139  
Email : aglare@aglare.com

#### 1.2 Manufacturer & Buyer

Manufacturer name : Shenzhen Aglare Lighting Co., Ltd.  
Address : Factory A, Supply and Marketing Cooperative Industrial Park,  
Guanlan Avenue, Guanlan Town, Bao'an District, Shenzhen City,  
Guangdong, China  
Contact : Cheng Jun  
Telephone : +86-755-88868631  
Fax : +86-27659398  
Mobile telephone : 13902981139  
Email : aglare@aglare.com  
Buyer name : /

#### 1.3 Description of the Test Item

Sample name : LED Amusement Light  
Model No. : YJLED-001A-S12RGB; YJLED-015-SM16RGB, YJLED-007-SV12,  
YJLED-007-SM12, YJLED-007-SV16, YJLED-007-SM16, YJLED-  
007-SV18, YJLED-007-SM18, YJLED-007-SV20, YJLED-007-SM20,  
YJLED-008-SV12, YJLED-008-SM12, YJLED-008-SV16, YJLED-  
008-SM16, YJLED-008-SV20, YJLED-008-SM20, YJLED-009-SV12,  
YJLED-009-SM12, YJLED-009-SV16, YJLED-009-SM16, YJLED-  
009-SV20, YJLED-009-SM20, YJLED-010-SV22, YJLED-011-SV12,  
YJLED-011-SV16, YJLED-011-SV20, YJLED-011-SM22, YJLED-  
013-SV8, YJLED-013-SM8, YJLED-015-SV12RGB, YJLED-015-  
SM16RGB-1, YJLED-015-S12RGB, YJLED-018-SM12, YJLED-018-  
SV16, YJLED-018-SV20, YJLED-018-SM18, YJLED-018-ST9,  
YJLED-019-S8RGB, YJLED-019-S15WW-A, YJLED-019-SV18,  
YJLED-A019-S8RGB, YJLED-020-S1RGB, YJLED-021-S1RGB,  
YJLED-022-S3RGB, YJLED-024-S6, YJLED-001A-S48RGB-1-A,

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YJLED-002A-S12RGB, YJLED-003A-S12RGB, YJLED-A003A-S12RGB, YJLED-004A-S12RGB-1, YJLED-A004A-S12RGB-1, YJLED-005A-S12RGB, YJLED-A005A-S12RGB, YJLED-006A-S12RGB-1, YJLED-A006A-S12RGB-1, YJLED-A008-SV16, YJLED-A008-SV20, YJLED-008-ST8RGB

Brand name : Aglare Lighting  
Condition of sample(s) : EFFECTIVE

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**2 Test results****2.1 Sample Receiving Date**

Dec. 30, 2013

**2.2 Testing Period**

Dec. 30, 2013 to Jan. 06, 2014

**2.3 Test Requested**

In accordance with the RoHS Directive 2011/65/EU Annex II.

**2.4 Test Method**

1. X-Ray Fluorescence Spectrometry method in reference to IEC 62321: 2008.
2. Chemical test method

| Test Item(s)   | Test Method                      | Test Instrument |
|----------------|----------------------------------|-----------------|
| Lead (Pb)      | With reference to IEC 62321:2008 | ICP-AES         |
| Cadmium (Cd)   | With reference to IEC 62321:2008 | ICP-AES         |
| Mercury (Hg)   | With reference to IEC 62321:2008 | ICP-AES         |
| Chromium (Cr ) | With reference to IEC 62321:2008 | UV-Vis          |
| PBBs           | With reference to IEC 62321:2008 | GC-MS           |
| PBDEs          |                                  |                 |

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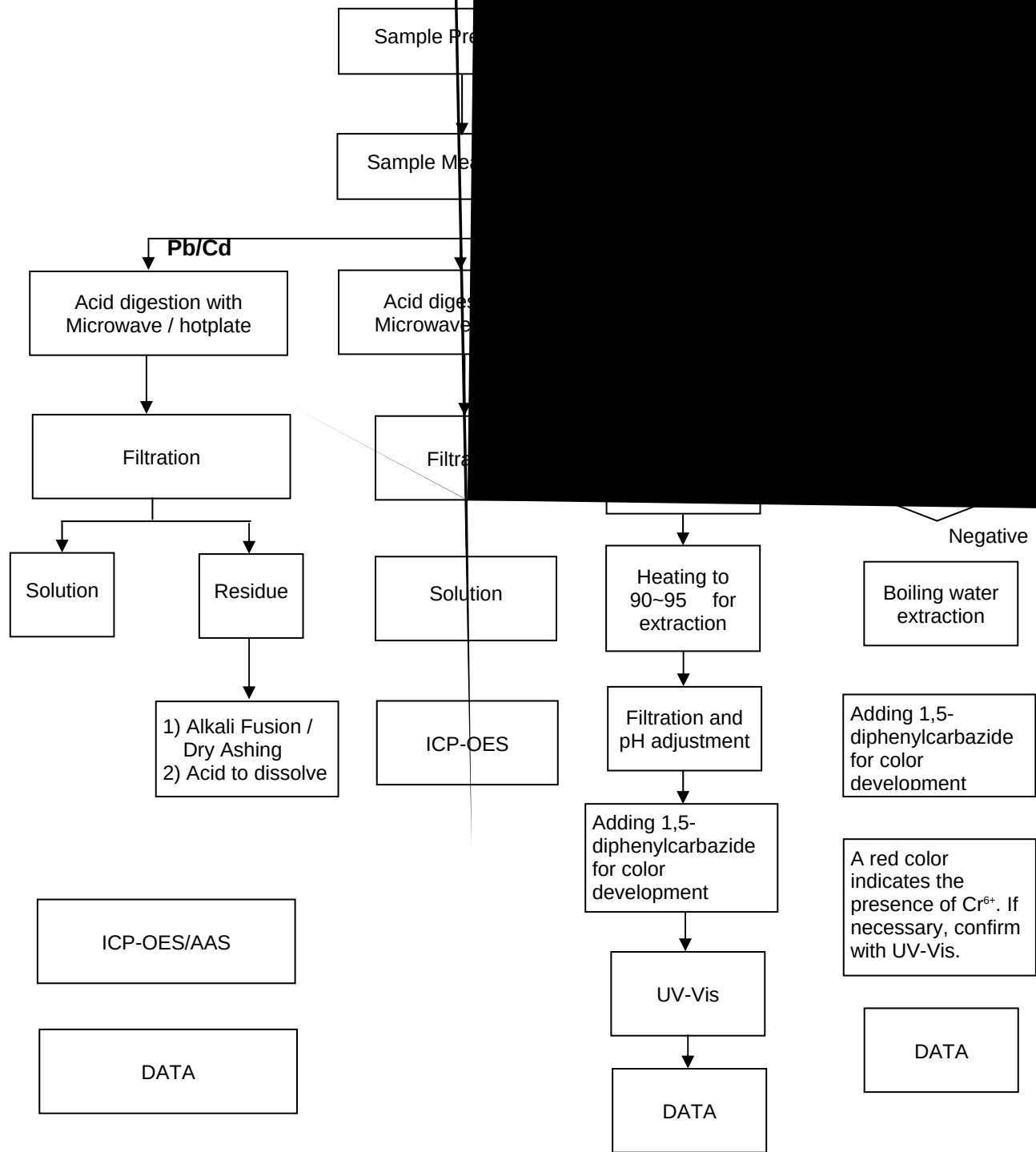
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2.5 Chemical Test Method Flow Chart



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### 2.7 Test Results

#### 2.7.1 Test results of all parts by EDXRF and chemical confirmation

| No. | Sample Description         |                                           | Results                                  |    |    |    |    | Chemical Confirmation Result<br>(Unit=mg/kg) |                  |  |
|-----|----------------------------|-------------------------------------------|------------------------------------------|----|----|----|----|----------------------------------------------|------------------|--|
|     |                            |                                           | Pb                                       | Cd | Hg | Cr | Br |                                              |                  |  |
| 1   | Cover(YJLE D-001A-S12RGB)  | Transparent plastic cover                 |                                          | P  | P  | P  | P  | P                                            |                  |  |
| 2   |                            | White plastic cover                       |                                          | P  | P  | P  | P  | P                                            |                  |  |
| 3   |                            | Silvery metal screw                       |                                          | P  | P  | P  | P  | /                                            |                  |  |
| 4   |                            | Black ink                                 |                                          | P  | P  | P  | P  | P                                            |                  |  |
| 5   | Body (YJLED -001A-S12RG B) | Transparent encapsulation material (soft) |                                          | P  | P  | P  | P  | P                                            |                  |  |
| 6   |                            | LED                                       | White plastic                            | P  | P  | P  | P  | P                                            |                  |  |
| 7   |                            | White fibre board                         |                                          | P  | P  | P  | P  | X                                            | PBBs,PBDEs =N.D. |  |
| 8   |                            | Copper-colored metal wafer                |                                          | P  | P  | P  | P  | /                                            |                  |  |
| 9   |                            | Aluminum electrolytic capacitor           | Black plastic jacket with white printing |    | P  | P  | P  | P                                            | P                |  |
| 10  |                            |                                           | Silvery metal cover                      |    | P  | P  | P  | P                                            | /                |  |
| 11  |                            |                                           | Black rubber end closure                 |    | P  | P  | P  | P                                            | P                |  |
| 12  |                            |                                           | Pin                                      |    | P  | P  | P  | P                                            | /                |  |
| 13  |                            |                                           | Capacitor anode film                     |    | P  | P  | P  | P                                            | /                |  |
| 14  |                            |                                           | Capacitor cathode film                   |    | P  | P  | P  | P                                            | /                |  |
| 15  |                            |                                           | Paper film                               |    | P  | P  | P  | P                                            | P                |  |
| 16  |                            | Brown polyester capacitor                 | Brown encapsulation material             |    | P  | P  | P  | P                                            | P                |  |
| 17  |                            |                                           | Capacitor film                           |    | P  | P  | P  | P                                            | /                |  |
| 18  |                            |                                           | Pin                                      |    | P  | P  | P  | P                                            | /                |  |

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Note : P = Below Limit (Pass)  
 F = Over Limit (Fail)  
 X = Inconclusive  
 N.D. = not detected (less than MDL)  
 1mg/kg=1ppm=0.0001%  
 \* According to the declaration from client, the source of lead in the sample could be from the glass material. Lead in glass of electronic components cathode ray tubes/fluorescent tubes is exempted from the requirement of RoHS Directive (Annex ,2011/65/EU).  
 According to the declaration from client, the source of lead in the sample could be from the ceramic parts. Lead in electronic ceramic parts is exempted from the requirement of RoHS Directive (Annex ,2011/65/EU).

### Remarks:

- (1) Results are obtained by EDXRF for primary screening, and further chemical testing is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321: 2008.

| Element | Polymer Materials              | Metallic Materials             | Electronic Materials           |
|---------|--------------------------------|--------------------------------|--------------------------------|
| Pb      | $P \leq 500 < X < 1300 \leq F$ | $P \leq 500 < X < 1300 \leq F$ | $P \leq 500 < X < 1300 \leq F$ |
| Cd      | $P \leq 50 < X < 130 \leq F$   | $P \leq 50 < X < 130 \leq F$   | $X < 130 \leq F$               |
| Hg      | $P \leq 500 < X < 1300 \leq F$ | $P \leq 500 < X < 1300 \leq F$ | $P \leq 500 < X < 1300 \leq F$ |
| Cr      | $P \leq 700 < X$               | $P \leq 700 < X$               | $P \leq 500 < X$               |
| Br      | $P \leq 250 < X$               | /                              | $P \leq 250 < X$               |

- (2) Chemical Confirmation Result acceptable Limit:

| Test items       | Lead (Pb) | Cadmium (Cd) | Mercury (Hg) | Chromium (CrVI) | PBBs  | PBDEs |
|------------------|-----------|--------------|--------------|-----------------|-------|-------|
| Unit             | mg/kg     | mg/kg        | mg/kg        | mg/kg           | mg/kg | mg/kg |
| Acceptable Limit | 1000      | 100          | 1000         | 1000            | 1000  | 1000  |

- (3) The test results only apply to the materials requested by applicant.

Written by: *Amanda* Inspected by: *Annie* Approved by: *hyt*

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

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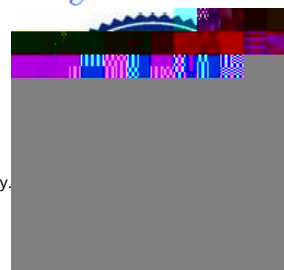
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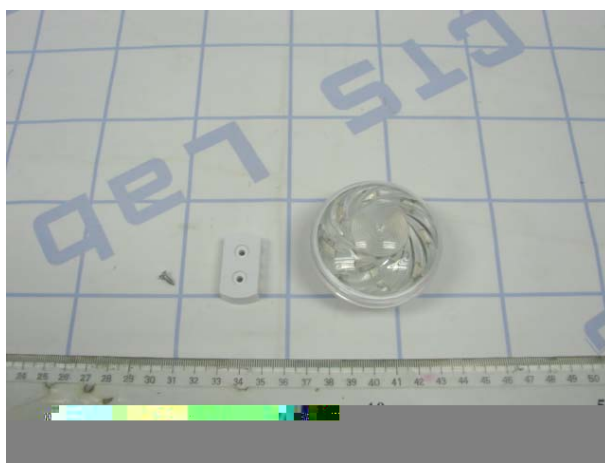
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**3 Sample Reference Photo**

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