



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

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Report No.: GZEM181200539402
Page: 1 of 12

TEST REPORT

Application No.: GZEM1812005394CR
Applicant: GMY LIGHTING TECHNOLOGY CO.,LTD.
Address of Applicant: No.328 Xinxing Road, Gonghe Town, Heshan City, Guangdong, China
Manufacturer: The same as applicant
Address of Manufacturer: The same as applicant
Factory: The same as applicant
Address of Factory: The same as applicant
Equipment Under Test (EUT):
EUT Name: LED Filament Bulb
Model No.: A19YY-4.5D-Z01-XXZZ, A21YY-4.5D-Z01-XXZZ, A23YY-4.5D-Z01-XXZZ,
ST19YY-4.5D-Z01-XXZZ, ST21YY-4.5D-Z01-XXZZ, G25YY-4.5D-Z01-XXZZ,
G30YY-4.5D-Z01-XXZZ, G40YY-4.5D-Z01-XXZZ
 (XX=00-99, ZZ=00-99, Y=A-Z). □
 □ Please refer to section 2 of this report which indicates which model was
 actually tested and which were electrically identical.
Standard(s) : 47 CFR Part 1.1307, Part 2.1093, KDB 447498
Date of Receipt: 2018-12-13
Date of Test: 2018-12-19 to 2019-01-15
Date of Issue: 2019-01-21

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

* In the configuration tested, the EUT complied with the standards specified above.



Kobe Jian
Lab Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2019-01-21 | | Original |
| | | | | |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|---|--|--------------------------|
| Authorized for issue by: | | | |
| Tested By |  | | 2018-12-19 to 2019-01-15 |
| | Jackson_Yuan /Project Engineer | | Date |
| Checked By |  | | 2019-01-21 |
| | Ricky_Liu /Reviewer | | Date |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|---|--------------------|--------------------|--------|
| Item | Standard | Method | Requirement | Result |
| RF Exposure | 47 CFR Part 1.1307, Part 2.1093, KDB 447498 | CFR 47 Part 2.1093 | CFR 47 Part 2.1093 | Pass |

▣ Declaration of EUT Family Grouping:

Model No.: A19YY-4.5D-Z01-XXZZ, A21YY-4.5D-Z01-XXZZ, A23YY-4.5D-Z01-XXZZ, ST19YY-4.5D-Z01-XXZZ, ST21YY-4.5D-Z01-XXZZ, G25YY-4.5D-Z01-XXZZ, G30YY-4.5D-Z01-XXZZ, G40YY-4.5D-Z01-XXZZ

(XX=00-99, ZZ=00-99, Y=A-Z)

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the appearance and rated power.

Therefore only one model A19CL-4.5D-Z01-2750 with maximum rated power was tested in this report.



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4 General Information

4.1 Details of E.U.T.

| | |
|---------------------|--------------------|
| Power Supply: | AC 120 V, 60 Hz |
| Rated Power: | 4.5W |
| Test Voltage: | AC 120 V, 60 Hz |
| Cable: | Cap E26 |
| Antenna Gain | 0 dBi |
| Antenna Type | Integral Antenna |
| Channel Spacing | 5MHz |
| Number of Channels | 15 |
| Modulation Type | O-QPSK |
| Operation Frequency | 2405MHz to 2475MHz |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|-----------------|
| DC power | ZHAOXIN | RXN-305D | REF. No.SEA2700 |

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|---------------------------------|
| 1 | Radio Frequency | $\pm 5.5 \times 10^{-8}$ |
| 2 | Duty cycle | $\pm 0.57\%$ |
| 3 | Occupied Bandwidth | $\pm 3\%$ |
| 4 | RF Conducted power | $\pm 0.68\text{dB}$ |
| 5 | RF Power Density | $\pm 1.50\text{dB}$ |
| 6 | Conducted Spurious Emissions | $\pm 1.04\text{dB}$ |
| 7 | RF Radiated Power | $\pm 4.5\text{dB}$ (below 1GHz) |
| | | $\pm 4.8\text{dB}$ (above 1GHz) |
| 8 | Radiated Spurious Emission Test | $\pm 4.5\text{dB}$ (30MHz-1GHz) |
| | | $\pm 4.8\text{dB}$ (1GHz-18GHz) |
| 9 | Temperature | $\pm 0.4^\circ\text{C}$ |
| 10 | Humidity | $\pm 1.3\%$ |
| 11 | Supply Voltages | $\pm 1.5\%$ |
| 12 | Time | $\pm 3\%$ |



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District,
Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.5 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **NVLAP (Lab Code: 200611-0)**

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

● **ACMA**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

● **SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO**

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● **CNAS (Lab Code: L0167)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 General Requirements) for the Competence of Testing Laboratories.

● **FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 282399, May 31, 2002.

● **FCC Recognized Accredited Test Firm(Registration No.: 486818)**

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● **Industry Canada (Registration No.: 4620B-1)**

The 3m/10m Alternate Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Certification and Engineering of Industry Canada for radio equipment testing with Registration No. 4620B-1.

● **VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● **CBTL (Lab Code: TL129)**

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

| General used equipment | | | | | |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| DMM | Fluke | 73 | EMC0006 | 2018-07-20 | 2019-07-19 |
| DMM | Fluke | 73 | EMC0007 | 2018-07-19 | 2019-07-18 |

| Conducted Peak Output Power | | | | | |
|-----------------------------|---------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analyzer | AgilentTechnologies | N9010A | EMC2138 | 2018-11-19 | 2019-11-18 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2018-04-04 | 2020-04-03 |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A |



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6 Radio Spectrum Technical Requirement

6.1 RF Exposure

6.1.1 Test Requirement:

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2m normally can be maintained between the user and the device.

(a) Limits for Occupational / Controlled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S)(mW/cm ²) | Averaging Times E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|--|--|
| 0.3-3.0 | 614 | 1.63 | (100)* | 6 |
| 3.0-30 | 1842/f | 4.89/f | (900/f)* | 6 |
| 30-300 | 61.4 | 0.163 | 1.0 | 6 |
| 300-1500 | -- | -- | F/300 | 6 |
| 1500-100000 | -- | -- | 5 | 6 |

(b) Limits for General Population / Uncontrolled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S)(mW/cm ²) | Averaging Times E ² , H ² or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|--|--|
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 |
| 1.34-30 | 824/f | 2.19/f | (180/f)* | 30 |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 |
| 300-1500 | -- | -- | F/1500 | 30 |
| 1500-100000 | -- | -- | 1.0 | 30 |

Note: f=frequency in MHz; *Plane-wave equivalent power density



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6.1.2 MPE Calculation Method

$E (V/m) = (30 \cdot P \cdot G)^{0.5} / d$ Power Density: $P_d (W/m^2) = E^2 / 377$

E=Electric Field (V/m)

P=Peak RF output Power (W)

G=EUT Antenna numeric gain (numeric)

d= Separation distance between radiator and human body (m)

The formula can be changed to

$P_d = (30 \cdot P \cdot G) / (377 \cdot d^2)$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained.

6.1.3 Calculated Result and Limit

| Frequency (MHz) | Antenna Gain (Numeric) | Peak Output Power (dBm) | Peak Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|-----------------|------------------------|-------------------------|------------------------|---|--|-------------|
| 2405 | 1.000 | -22.745 | 0.005 | 0.000001 | 1 | Complies |
| 2445 | 1.000 | -22.951 | 0.005 | 0.000001 | 1 | Complies |
| 2475 | 1.000 | -22.392 | 0.006 | 0.000001 | 1 | Complies |

So the SAR report is not required.



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7 Photographs

7.1 EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for GZEM1812005394CR.

--End of Report--



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