

**Maximum Permissible Exposure Report****1. Product Information**

|                      |   |                                                                                                                                                          |
|----------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT                  | : | LED PROJECTOR                                                                                                                                            |
| Test Model           | : | L018AQ                                                                                                                                                   |
| Additional Model No. | : | L018, LY300, LY200, L018D, LM-STLR                                                                                                                       |
| Model Declaration    | : | PCB board, structure and internal of these model(s) are the same, So no additional models were tested                                                    |
| Power Supply         | : | Input: 100-240V~, 50/60Hz, 1.5A                                                                                                                          |
| Hardware Version     | : | /                                                                                                                                                        |
| Software Version     | : | /                                                                                                                                                        |
| Bluetooth            |   |                                                                                                                                                          |
| Frequency Range      | : | 2402MHz~2480MHz                                                                                                                                          |
| Channel Number       | : | 79 channels for Bluetooth (DSS)<br>40 channels for Bluetooth (DTS)                                                                                       |
| Channel Spacing      | : | 1MHz for Bluetooth (DSS)<br>2MHz for Bluetooth (DTS)                                                                                                     |
| Modulation Type      | : | GFSK, $\pi/4$ -DQPSK, 8-DPSK for Bluetooth (DSS)<br>GFSK for Bluetooth (DTS)                                                                             |
| Antenna Description  | : | Internal Antenna, 2.7dBi(Max.)                                                                                                                           |
| WIFI(2.4G Band)      |   |                                                                                                                                                          |
| Frequency Range      | : | 2412MHz~2462MHz                                                                                                                                          |
| Channel Number       | : | 11 Channels for 20MHz bandwidth(2412~2462MHz)<br>7 Channels for 40MHz bandwidth(2422~2452MHz)                                                            |
| Channel Spacing      | : | 5MHz                                                                                                                                                     |
| Modulation Type      | : | IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)<br>IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)                 |
| Antenna Description  | : | Internal Antenna, 2.98dBi(Max.)                                                                                                                          |
| WIFI(5.2G Band)      |   |                                                                                                                                                          |
| Frequency Range      | : | 5180MHz~5240MHz                                                                                                                                          |
| Channel Number       | : | 4 channels for 20MHz bandwidth(5180MHz~5240MHz)<br>2 channels for 40MHz bandwidth(5190MHz~5230MHz)                                                       |
| Modulation Type      | : | IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Antenna Description  | : | Internal Antenna, 3.89dBi(Max.)                                                                                                                          |
| WIFI(5.8G Band)      |   |                                                                                                                                                          |
| Frequency Range      | : | 5745MHz~5825MHz                                                                                                                                          |
| Channel Number       | : | 5 channels for 20MHz bandwidth(5745MHz~5825MHz)<br>2 channels for 40MHz bandwidth(5755MHz~5795MHz)                                                       |
| Modulation Type      | : | IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)                                                                                                            |





|                     |                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------|
|                     | IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Antenna Description | : Internal Antenna, 3.89dBi(Max.)                                                                       |
| Exposure category   | : General population/uncontrolled environment                                                           |
| EUT Type            | : Production Unit                                                                                       |
| Device Type         | : Mobile Device                                                                                         |
| Date of Test        | : December 17, 2024 ~ January 02, 2025                                                                  |
| Date of Report      | : January 03, 2025                                                                                      |

## 2. Evaluation Method

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

In accordance with KDB447498D01 for Simultaneous transmission MPE test exclusion applies when the sum of the MPE ratios for all simultaneous transmitting antennas incorporated in a host device, based on the calculated/estimated, numerically modelled or measured field strengths or power density, is  $\leq 1.0$ . The MPE ratio of each antenna is determined at the minimum test separation distance required by the operating configurations and exposure conditions of the host device, according to the ratio of field strengths or power density to MPE limit, at the test frequency. Either the maximum peak or spatially averaged results from measurements or numerical simulations may be used to determine the MPE ratios. Spatial averaging does not apply when MPE is estimated using simple calculations based on far-field plane-wave equivalent conditions. The antenna installation and operating requirements for the host device must meet the minimum test separation distances required by all antennas, in both standalone and simultaneous transmission operations, to satisfy compliance.

## 3. Limit

### 3. 1 Refer Evaluation Method

[ANSI C95.1-2019](#): IEEE Standard for Safety Levels with Respect to Human Exposure to Electric, Magnetic, and Electromagnetic Fields, 0 Hz to 300 GHz

[FCC KDB publication 447498 D01 General 1 RF Exposure Guidance v06](#): Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies.

[FCC CFR 47 part1 1.1310](#): Radiofrequency radiation exposure limits.

[FCC CFR 47 part2 2.1091](#): Radiofrequency radiation exposure evaluation: mobile devices.





### 3.2 Limit

#### Limits for Maximum Permissible Exposure (MPE)/Controlled Exposure

| Frequency Range(MHz)                        | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|---------------------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Controlled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                   | 614                          | 1.63                         | (100) *                             | 6                       |
| 3.0 – 30                                    | 1842/f                       | 4.89/f                       | (900/f <sup>2</sup> )*              | 6                       |
| 30 – 300                                    | 61.4                         | 0.163                        | 1.0                                 | 6                       |
| 300 – 1500                                  | /                            | /                            | f/300                               | 6                       |
| 1500 – 100,000                              | /                            | /                            | 5                                   | 6                       |

#### Limits for Maximum Permissible Exposure (MPE)/Uncontrolled Exposure

| Frequency Range(MHz)                          | Electric Field Strength(V/m) | Magnetic Field Strength(A/m) | Power Density (mW/cm <sup>2</sup> ) | Averaging Time (minute) |
|-----------------------------------------------|------------------------------|------------------------------|-------------------------------------|-------------------------|
| Limits for Occupational/Uncontrolled Exposure |                              |                              |                                     |                         |
| 0.3 – 3.0                                     | 614                          | 1.63                         | (100) *                             | 30                      |
| 3.0 – 30                                      | 824/f                        | 2.19/f                       | (180/f <sup>2</sup> )*              | 30                      |
| 30 – 300                                      | 27.5                         | 0.073                        | 0.2                                 | 30                      |
| 300 – 1500                                    | /                            | /                            | f/1500                              | 30                      |
| 1500 – 100,000                                | /                            | /                            | 1.0                                 | 30                      |

F=frequency in MHz

\*=Plane-wave equivalent power density

### 4. MPE Calculation Method

Predication of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S=PG/4\pi R^2$$

Where: S=power density

P=power input to antenna

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna

### 5. Antenna Information

EUT can only use antennas certificated as follows provided by manufacturer;

| Internal/ External Identification | Antenna type and antenna number | Operate frequency band | Maximum antenna gain                                      | Notes           |
|-----------------------------------|---------------------------------|------------------------|-----------------------------------------------------------|-----------------|
| Internal                          | Internal Antenna                | 2400MHz ~ 6000MHz      | Bluetooth: 2.7dBi<br>2.4GWIFI: 2.98dBi<br>5GWIFI: 3.89dBi | BT WIFI Antenna |



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**6. Conducted Power****[BT]**

| Mode          | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|---------------|---------|-----------------|-----------------------------------|
| GFSK          | 0       | 2402            | -1.18                             |
|               | 39      | 2441            | -0.71                             |
|               | 78      | 2480            | 0.71                              |
| $\pi/4$ DQPSK | 0       | 2402            | 0.6                               |
|               | 39      | 2441            | 0.91                              |
|               | 78      | 2480            | -0.09                             |
| 8DPSK         | 0       | 2402            | 0.93                              |
|               | 19      | 2441            | 1.18                              |
|               | 39      | 2480            | 0.21                              |

**[BLE]**

| Mode   | Channel | Frequency (MHz) | Peak Conducted Output Power (dBm) |
|--------|---------|-----------------|-----------------------------------|
| BLE_1M | 0       | 2402            | -0.67                             |
|        | 19      | 2440            | -0.79                             |
|        | 39      | 2480            | -0.72                             |
| BLE_2M | 0       | 2402            | -0.62                             |
|        | 19      | 2440            | -1                                |
|        | 39      | 2480            | -0.94                             |

**[2.4G WIFI]**

| Mode       | Channel | Frequency (MHz) | Max Conducted Power(dBm) |
|------------|---------|-----------------|--------------------------|
| 11B        | 1       | 2412            | 15.19                    |
|            | 6       | 2437            | 15.74                    |
|            | 11      | 2462            | 15.68                    |
| 11G        | 1       | 2412            | 14.61                    |
|            | 6       | 2437            | 14.42                    |
|            | 11      | 2462            | 14.13                    |
| 11N20 SISO | 1       | 2412            | 13.16                    |
|            | 6       | 2437            | 13.96                    |
|            | 11      | 2462            | 13.75                    |
| 11N40 SISO | 3       | 2422            | 12.29                    |
|            | 6       | 2437            | 12.95                    |
|            | 9       | 2452            | 12.31                    |





## [5.2G WIFI]

| Mode        | Channel | Frequency (MHz) | Max Conducted Power(dBm) |
|-------------|---------|-----------------|--------------------------|
| 11A         | 36      | 5180            | 12.3                     |
|             | 40      | 5200            | 12.48                    |
|             | 48      | 5240            | 12.05                    |
| 11N20 SISO  | 36      | 5180            | 10.97                    |
|             | 40      | 5200            | 12.01                    |
|             | 48      | 5240            | 11.53                    |
| 11N40 SISO  | 38      | 5190            | 10.53                    |
|             | 46      | 5230            | 10.63                    |
| 11AC20 SISO | 36      | 5180            | 12                       |
|             | 40      | 5200            | 11.95                    |
|             | 48      | 5240            | 11.42                    |
| 11AC40 SISO | 38      | 5190            | 10.55                    |
|             | 46      | 5230            | 10.57                    |

## [5.8G WIFI]

| Mode        | Channel | Frequency (MHz) | Max Conducted Power(dBm) |
|-------------|---------|-----------------|--------------------------|
| 11A         | 149     | 5745            | 13                       |
|             | 157     | 5785            | 12.19                    |
|             | 165     | 5825            | 12.76                    |
| 11N20 SISO  | 149     | 5745            | 11.46                    |
|             | 157     | 5785            | 11.62                    |
|             | 165     | 5825            | 11.8                     |
| 11N40 SISO  | 151     | 5755            | 10.61                    |
|             | 159     | 5795            | 10.74                    |
| 11AC20 SISO | 149     | 5745            | 10.99                    |
|             | 157     | 5785            | 11.08                    |
|             | 165     | 5825            | 11.81                    |
| 11AC40 SISO | 151     | 5755            | 10.61                    |
|             | 159     | 5795            | 10.66                    |





## 7. Manufacturing Tolerance

[BT]

| GFSK (Peak)          |           |            |            |
|----------------------|-----------|------------|------------|
| Channel              | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)         | -1.0      | 0          | 0          |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |
| $\pi/4$ DQPSK (Peak) |           |            |            |
| Channel              | Channel 0 | Channel 39 | Channel 78 |
| Target (dBm)         | 0         | 0          | 0          |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |
| 8DPSK (Peak)         |           |            |            |
| Channel              | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)         | 0         | 1.0        | 0          |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |

[BLE]

| BLE_1M (Peak)        |           |            |            |
|----------------------|-----------|------------|------------|
| Channel              | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)         | 0         | 0          | 0          |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |
| BLE_2M (Peak)        |           |            |            |
| Channel              | Channel 0 | Channel 19 | Channel 39 |
| Target (dBm)         | 0         | -1.0       | 0          |
| Tolerance $\pm$ (dB) | 1.0       | 1.0        | 1.0        |

[2.4G WIFI]

| 11B (Peak)           |           |           |            |
|----------------------|-----------|-----------|------------|
| Channel              | Channel 1 | Channel 6 | Channel 11 |
| Target (dBm)         | 15.0      | 15.0      | 15.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |
| 11G (Peak)           |           |           |            |
| Channel              | Channel 1 | Channel 6 | Channel 11 |
| Target (dBm)         | 14.0      | 14.0      | 14.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |
| 11N20(Peak)          |           |           |            |
| Channel              | Channel 1 | Channel 6 | Channel 11 |
| Target (dBm)         | 13.0      | 13.0      | 13.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |
| 11N40(Peak)          |           |           |            |
| Channel              | Channel 3 | Channel 6 | Channel 9  |
| Target (dBm)         | 12.0      | 12.0      | 12.0       |
| Tolerance $\pm$ (dB) | 1.0       | 1.0       | 1.0        |



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## [5.2G WIFI]

## 11A (AVG)

| Channel              | Channel 36 | Channel 40 | Channel 48 |
|----------------------|------------|------------|------------|
| Target (dBm)         | 12.0       | 12.0       | 12.0       |
| Tolerance $\pm$ (dB) | 1.0        | 1.0        | 1.0        |

## 11N20(AVG)

| Channel              | Channel 36 | Channel 40 | Channel 48 |
|----------------------|------------|------------|------------|
| Target (dBm)         | 10.0       | 12.0       | 11.0       |
| Tolerance $\pm$ (dB) | 1.0        | 1.0        | 1.0        |

## 11N40(AVG)

| Channel              | Channel 38 | Channel 46 |
|----------------------|------------|------------|
| Target (dBm)         | 10.0       | 10.0       |
| Tolerance $\pm$ (dB) | 1.0        | 1.0        |

## 11AC20(AVG)

| Channel              | Channel 36 | Channel 40 | Channel 48 |
|----------------------|------------|------------|------------|
| Target (dBm)         | 12.0       | 11.0       | 11.0       |
| Tolerance $\pm$ (dB) | 1.0        | 1.0        | 1.0        |

## 11AC40(AVG)

| Channel              | Channel 38 | Channel 46 |
|----------------------|------------|------------|
| Target (dBm)         | 10.0       | 10.0       |
| Tolerance $\pm$ (dB) | 1.0        | 1.0        |





## [5.8G WIFI]

| 11A (AVG)            |             |             |             |
|----------------------|-------------|-------------|-------------|
| Channel              | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)         | 13.0        | 12.0        | 12.0        |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         | 1.0         |
| 11N20(AVG)           |             |             |             |
| Channel              | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)         | 11.0        | 11.0        | 11.0        |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         | 1.0         |
| 11N40(AVG)           |             |             |             |
| Channel              | Channel 151 | Channel 159 |             |
| Target (dBm)         | 10.0        | 10.0        |             |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         |             |
| 11AC20(AVG)          |             |             |             |
| Channel              | Channel 149 | Channel 157 | Channel 165 |
| Target (dBm)         | 10.0        | 11.0        | 11.0        |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         | 1.0         |
| 11AC40(AVG)          |             |             |             |
| Channel              | Channel 151 | Channel 159 |             |
| Target (dBm)         | 10.0        | 10.0        |             |
| Tolerance $\pm$ (dB) | 1.0         | 1.0         |             |





## 8. Measurement Results

### 8.1 Standalone MPE Evaluation

As declared by the Applicant, the EUT is a wireless device used in a fix application, at least 20 cm from any body part of the user or nearby persons; from the maximum EUT RF output power, the minimum separation distance,  $r=20\text{cm}$ , as well as the gain of the used antenna refer to antenna information, the RF power density can be obtained.

[BT]

| Modulation Type | Output power |        | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|--------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW     |                    |                       |                           |                                  |
| GFSK            | 1.0          | 1.2589 | 2.7                | 1.8621                | 0.0005                    | 1.0000                           |
| $\pi/4$ -DQPSK  | 1.0          | 1.2589 | 2.7                | 1.8621                | 0.0005                    | 1.0000                           |
| 8-DPSK          | 1.0          | 1.2589 | 2.7                | 1.8621                | 0.0005                    | 1.0000                           |

[BLE 1M]

| Modulation Type | Output power |        | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|--------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW     |                    |                       |                           |                                  |
| GFSK            | 1.0          | 1.2589 | 2.7                | 1.8621                | 0.0005                    | 1.0000                           |

[BLE 2M]

| Modulation Type | Output power |        | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-----------------|--------------|--------|--------------------|-----------------------|---------------------------|----------------------------------|
|                 | dBm          | mW     |                    |                       |                           |                                  |
| GFSK            | 1.0          | 1.2589 | 2.7                | 1.8621                | 0.0005                    | 1.0000                           |

[2.4G WIFI]

| Modulation Type   | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|-------------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|
|                   | dBm          | mW      |                    |                       |                           |                                  |
| IEEE 802.11b      | 16.0         | 39.8107 | 2.98               | 1.9861                | 0.0157                    | 1.0000                           |
| IEEE 802.11g      | 15.0         | 31.6228 | 2.98               | 1.9861                | 0.0125                    | 1.0000                           |
| IEEE 802.11n HT20 | 14.0         | 25.1189 | 2.98               | 1.9861                | 0.0099                    | 1.0000                           |
| IEEE 802.11n HT40 | 13.0         | 19.9526 | 2.98               | 1.9861                | 0.0079                    | 1.0000                           |

[5.2G WIFI]

| Modulation Type     | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|---------------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|
|                     | dBm          | mW      |                    |                       |                           |                                  |
| IEEE 802.11a        | 13.0         | 19.9526 | 3.89               | 2.4491                | 0.0097                    | 1.0000                           |
| IEEE 802.11n HT20   | 13.0         | 19.9526 | 3.89               | 2.4491                | 0.0097                    | 1.0000                           |
| IEEE 802.11n HT40   | 11.0         | 12.5893 | 3.89               | 2.4491                | 0.0061                    | 1.0000                           |
| IEEE 802.11ac VHT20 | 13.0         | 19.9526 | 3.89               | 2.4491                | 0.0097                    | 1.0000                           |
| IEEE 802.11ac VHT40 | 11.0         | 12.5893 | 3.89               | 2.4491                | 0.0061                    | 1.0000                           |





## [5.8G WIFI]

| Modulation Type     | Output power |         | Antenna Gain (dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | MPE Limits (mW/cm <sup>2</sup> ) |
|---------------------|--------------|---------|--------------------|-----------------------|---------------------------|----------------------------------|
|                     | dBm          | mW      |                    |                       |                           |                                  |
| IEEE 802.11a        | 14.0         | 25.1189 | 3.89               | 2.4491                | 0.0122                    | 1.0000                           |
| IEEE 802.11n HT20   | 12.0         | 15.8489 | 3.89               | 2.4491                | 0.0077                    | 1.0000                           |
| IEEE 802.11n HT40   | 11.0         | 12.5893 | 3.89               | 2.4491                | 0.0061                    | 1.0000                           |
| IEEE 802.11ac VHT20 | 12.0         | 15.8489 | 3.89               | 2.4491                | 0.0077                    | 1.0000                           |
| IEEE 802.11ac VHT40 | 11.0         | 12.5893 | 3.89               | 2.4491                | 0.0061                    | 1.0000                           |

**Remark:**

1. Output power including tune-up tolerance;
2. Output power was adjusted to duty cycle at 100% if measured duty cycle less than 98%;
3. MPE evaluate distance is 20cm from user manual provide by manufacturer.

**8.2 Simultaneous Transmission MPE Evaluation**

The EUT equipped with one Bluetooth antenna, one WIFI antenna. so need consider simultaneous transmission;

According to KDB447498 for Transmitters used in mobile exposure conditions for simultaneous transmission operations;

| Simultaneous Transmission           |                                |              |       |         |
|-------------------------------------|--------------------------------|--------------|-------|---------|
| Bluetooth Antenna<br>Max MPE ratios | WIFI Antenna<br>Max MPE ratios | Σ MPE ratios | Limit | Results |
| 0.0005                              | 0.0157                         | 0.0162       | 1.0   | Pass    |

**Remark:**

1. Output power including tune-up tolerance;
2. BT/BLE/2.4G WIFI output power is burst peak power;
3. 5G WIFI output power is burst average power;
4. MPE evaluate distance is 20cm from user manual provide by manufacturer;
5.  $MPE\ values = PG/4\pi R^2$
6. Bluetooth Antenna is Antenna1.

**9. Conclusion**

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

**10. Description of Test Facility**

NVLAP Accreditation Code is 600167-0.

FCC Designation Number is CN5024.

CAB identifier is CN0071.

CNAS Registration Number is L4595.

Test Firm Registration Number: 254912.

-----THE END OF REPORT-----



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