



Report No.: 86260323255

Date: March 27, 2026

Page 1 of 5

## RF TEST REPORT

**Applicant :** Bengbu Longhe E-commerce Co., Ltd.

**Address:** Room 2510, Tower A, Fenghuang Int'l Bldg, Bengshan Dist, Bengbu City, Anhui Province, P.R.China

**Manufacturer:** Bengbu Longhe E-commerce Co., Ltd.

**Address:** Room 2510, Tower A, Fenghuang Int'l Bldg, Bengshan Dist, Bengbu City, Anhui Province, P.R.China

**EUT Name:** Diesel Heater

**Trade mark:** /

**Model:** Horizontal

**FCC ID:** 2BU4S -HORIZONTAL

**Rating:** DC 12-24V,3A

**Sample Received Date:** Mar. 23, 2026

**Test Date:** Mar. 23, 2026~Mar. 26, 2026

**Applicable Standards:** CFR 47, FCC Part 2.1091

**Test Result** Pass

Prepared by:

*Evan Fang*

Approved by:

*Bruce Zhang*

Evan Fang/Project Engineer

Bruce Zhang/Technical Manager

### HD Testing Technology (GuangDong) Co., Ltd.

Building 1, No.18, Shihuan Road, Dongcheng Subdistrict,

Dongguan, Guangdong, China

Tel: +86-0769-22221088

E-mail: [info@hdt-lab.com](mailto:info@hdt-lab.com)

Website: [www.hdt-lab.com](http://www.hdt-lab.com)

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### Revision History

| Version | Date of Issue  | Description      |
|---------|----------------|------------------|
| V00     | March 27, 2026 | Original Version |

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## 1. EUT DESCRIPTION

|                                                                                                                                                                                                                                                                                                                                             |                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Product:</b>                                                                                                                                                                                                                                                                                                                             | Diesel Heater     |
| <b>Test Model:</b>                                                                                                                                                                                                                                                                                                                          | Horizontal        |
| <b>Additional Model:</b>                                                                                                                                                                                                                                                                                                                    | N/A               |
| <b>Rating:</b>                                                                                                                                                                                                                                                                                                                              | DC 12-24V, 3A     |
| <b>FCC ID:</b>                                                                                                                                                                                                                                                                                                                              | 2BU4S -HORIZONTAL |
| <b>Antenna Type:</b>                                                                                                                                                                                                                                                                                                                        | PCB Antenna       |
| <b>Antenna Gain:</b>                                                                                                                                                                                                                                                                                                                        | 5.3dBi            |
| <b>Operation Frequency:</b>                                                                                                                                                                                                                                                                                                                 | 2402-2480MHz      |
| <b>Number of Channels:</b>                                                                                                                                                                                                                                                                                                                  | 40                |
| <b>Modulation Type:</b>                                                                                                                                                                                                                                                                                                                     | GFSK              |
| <b>Hardware Version:</b>                                                                                                                                                                                                                                                                                                                    | N/A               |
| <b>Software Version:</b>                                                                                                                                                                                                                                                                                                                    | N/A               |
| <b>Note:</b><br>1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.<br>2) Antenna gain was provided by the applicant/ manufacturer, and the applicant/ manufacturer is responsible for its validity.<br>3) The test results in the report only apply to the tested sample. |                   |

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## 2. RF EXPOSURE EVALUATION

### 2.1. Requirement

According to ANSI/IEEE C95.1-1992, the criteria listed in Table as below shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1310.

| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                               |                               |                                     |                          |
| 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                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 0.3-1.34                                                       | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30                                                        | 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                       |

### 2.2. Calculation method

The following formula was used to calculate the Power Density:

$$S = \frac{PG}{4\pi R^2}$$

Where:

S: Power density(mW/cm<sup>2</sup>)

P: power input to antenna (Watt)

G: is the antenna gain relative to an isotropic antenna;

R: is the distance from observation point to the antenna

Note:

1) P (Watts)=(10 ^ (dBm /10))/1000

2) G (Antenna gain in numeric) = 10^ (Antenna gain in dBi /10)

3) π=3.142

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### 2.3. Tune-up Result

| Test mode | Maximum Conducted Output Power(dBm) | Tune-up Power(dBm) |
|-----------|-------------------------------------|--------------------|
| Bluetooth | 3.30                                | 3±1dBm             |

### 2.4. Evaluation Result

| Mode      | Maximum Tune up Power (dBm) | Antenna Gain (dBi) | Antenna Gain (linear) | Maximum E.I.R.P. (mW) | Power density (mW/cm <sup>2</sup> ) | Power density Limit (mW/cm <sup>2</sup> ) | Result |
|-----------|-----------------------------|--------------------|-----------------------|-----------------------|-------------------------------------|-------------------------------------------|--------|
| Bluetooth | 4                           | 5.3                | 3.39                  | 2.5199                | 0.0017                              | 1                                         | PASS   |

### 2.5. Conclusion

According to 47 CFR 2.1091, the RF exposure analysis concludes that the RF Exposure is FCC compliant.

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

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