

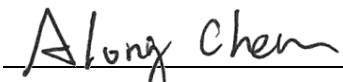
# ISED RF Exposure Report

**IC** : 3147A-BL653U  
**Equipment** : Bluetooth 5.1 Nano BLE Data Module  
**Model No.** : BL653μ  
**Brand Name** : Laird Connectivity  
**Applicant** : Ezurio LLC  
**Address** : W66N220 Commerce Court, Cedarburg, WI  
53012 United States Of America  
**Manufacturer** : Ezurio LLC  
**Address** : W66N220 Commerce Court, Cedarburg, WI  
53012 United States Of America  
**Standard** : RSS-102 Issue 6 December 15, 2023  
**Received Date** : Jun. 17, 2020  
**Tested Date** : Aug. 13 ~ Aug. 19, 2020

We, International Certification Corporation, would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:

Approved by:



Along Chen / Assistant Manager



Gary Chang / Manager

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## Release Record

| Report No.  | Version | Description   | Issued Date   |
|-------------|---------|---------------|---------------|
| CA061704-01 | Rev. 01 | Initial issue | Aug. 19, 2025 |

## 1 MPE EVALUATION OF MOBILE DEVICES

### 1.1 RF FIELD STRENGTH LIMITS FOR DEVICE USED BY THE GENERAL PUBLIC

| Frequency Range (MHz) | Power Density (W/m <sup>2</sup> ) | Averaging Time (minutes) |
|-----------------------|-----------------------------------|--------------------------|
| 300-6000              | $0.02619 f^{0.6834}$              | 6                        |
| 6000-15000            | 10                                | 6                        |

### 1.2 MPE EVALUATION FORMULA

$$Pd = \frac{Pt}{4 * Pi * R^2}$$

Where

Pd= Power density in W/m<sup>2</sup>

Pt= EIRP in W

Pi= 3.1416

R= Measurement distance

### 1.3 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

### 1.4 MEASUREMENT UNCERTAINTY

The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

| Parameters      | Uncertainty |
|-----------------|-------------|
| Conducted power | ±0.808 dB   |

#### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

#### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

## 1.5 EVALUATION RESULTS

| Modulation Mode | Freq. (MHz) | Maximum Conducted Power (dBm) | Rated Power (dBm) | Antenna Gain (dBi) | Distance (cm) | Power Density (W/m <sup>2</sup> ) | Limit (W/m <sup>2</sup> ) |
|-----------------|-------------|-------------------------------|-------------------|--------------------|---------------|-----------------------------------|---------------------------|
| LE-125 kbps     | 2402        | 7.67                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-125 kbps     | 2440        | 7.82                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-125 kbps     | 2480        | 7.93                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-500 kbps     | 2402        | 7.66                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-500 kbps     | 2440        | 7.82                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-500 kbps     | 2480        | 7.92                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-1Mbps        | 2402        | 7.69                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-1Mbps        | 2440        | 7.84                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-1Mbps        | 2480        | 7.94                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-2Mbps        | 2402        | 7.67                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-2Mbps        | 2440        | 7.83                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |
| LE-2Mbps        | 2480        | 7.93                          | 8                 | 2                  | 20            | 0.02                              | 5.35                      |

## 2 RF EXPOSURE EVALUATION FOR PORTABLE DEVICE

### 2.1 EXEMPTION LIMITS FOR ROUTINE EVALUATION BASED ON FREQUENCY AND SEPARATION DISTANCE

| Exemption Limits (mW) |                                   |                                 |                                 |                                 |                                 |
|-----------------------|-----------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Frequency (MHz)       | At separation distance of <= 5 mm | At separation distance of 10 mm | At separation distance of 15 mm | At separation distance of 20 mm | At separation distance of 25 mm |
| 1900                  | 6                                 | 10                              | 18                              | 33                              | 57                              |
| 2450                  | 3                                 | 7                               | 16                              | 32                              | 56                              |
| 3500                  | 2                                 | 6                               | 15                              | 29                              | 50                              |

### 2.2 EVALUATION RESULTS

| Modulation Mode | Freq. (MHz) | Maximum Conducted Power (dBm) | Rated Power (dBm) | Antenna Gain (dBi) | EIRP (dBm) | Minimum Separation Distance (mm) |
|-----------------|-------------|-------------------------------|-------------------|--------------------|------------|----------------------------------|
| LE-125 kbps     | 2402        | 7.67                          | 8                 | 2                  | 10         | 12                               |
| LE-125 kbps     | 2440        | 7.82                          | 8                 | 2                  | 10         | 12                               |
| LE-125 kbps     | 2480        | 7.93                          | 8                 | 2                  | 10         | 12                               |
| LE-500 kbps     | 2402        | 7.66                          | 8                 | 2                  | 10         | 12                               |
| LE-500 kbps     | 2440        | 7.82                          | 8                 | 2                  | 10         | 12                               |
| LE-500 kbps     | 2480        | 7.92                          | 8                 | 2                  | 10         | 12                               |
| LE-1Mbps        | 2402        | 7.69                          | 8                 | 2                  | 10         | 12                               |
| LE-1Mbps        | 2440        | 7.84                          | 8                 | 2                  | 10         | 12                               |
| LE-1Mbps        | 2480        | 7.94                          | 8                 | 2                  | 10         | 12                               |
| LE-2Mbps        | 2402        | 7.67                          | 8                 | 2                  | 10         | 12                               |
| LE-2Mbps        | 2440        | 7.83                          | 8                 | 2                  | 10         | 12                               |
| LE-2Mbps        | 2480        | 7.93                          | 8                 | 2                  | 10         | 12                               |

### 3 Test laboratory information

Established in 2012, ICC provides foremost EMC & RF Testing and advisory consultation services by our skilled engineers and technicians. Our services employ a wide variety of advanced edge test equipment and one of the widest certification extents in the business.

International Certification Corporation (EMC and Wireless Communication Laboratory), it is our definitive objective is to institute long term, trust-based associations with our clients. The expectation we set up with our clients is based on outstanding service, practical expertise and devotion to a certified value structure. Our passion is to grant our clients with best EMC / RF services by oriented knowledgeable and accommodating staff.

Our Test sites are located at Linkou District and Kwei Shan District. Location map can be found on our website <http://www.icertifi.com.tw>.

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