

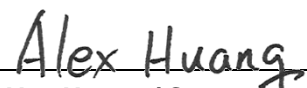
# AS/NZS RF Exposure Report

**Equipment** : Bluetooth 5.0 BLE Data Module  
**Model No.** : BL654  
**Brand Name** : Ezurio  
**Applicant** : Ezurio LLC  
**Address** : W66N220 Commerce Court, Cedarburg, WI  
53012, USA  
**Standard** : AS/NZS 2772.2:2016 Amd 1:2018  
**Received Date** : Jan. 30, 2018  
**Tested Date** : May 02 ~ May 09, 2018

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:

  
Alex Huang / Supervisor

  
Gary Chang / Manager

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## Release Record

Report No.	Version	Description	Issued Date
AA630601	Rev. 01	Initial issue	Mar. 10, 2026

# 1 General Description

## 1.1 Information

This report is issued as a duplicate report to the original ICC report no. AA813002. The modifications are concerned with the following items:

- Updating standard to the latest version.
- Changing the brand name and the applicant.

### 1.1.1 Specification of the Equipment under Test (EUT)

RF General Information				
Frequency Range (MHz)	Bluetooth Mode	Ch. Frequency (MHz)	Channel Number	Data Rate
2400-2483.5	V5.0 LE	2402-2480	0-39 [40]	125 kbps
				500 kbps
				1 Mbps
2400-2483.5	V5.0 LE	2402-2480	0-39 [40]	2 Mbps

Note: Bluetooth LE (Low energy) uses GFSK modulation.

### 1.1.2 Antenna Details

Ant. No.	Brand	Model	Type	Connector	Gain (dBi)	Remark
1	Laird	NanoBlue	PCB Dipole	IPEX MHF4	2	Connector Type Antenna
2	Laird	FlexPIFA	PCB Dipole	IPEX MHF4	2	Connector Type Antenna
3	Laird	FlexNotch	PCB Dipole	IPEX MHF4	2	Connector Type Antenna
4	Mag.Layers	EDA-8709-2G4C1-B27-CY	Dipole	IPEX MHF4	2	Connector Type Antenna
5	Laird	mFlexPIFA	PIFA	IPEX MHF4	2	Connector Type Antenna
6	Laird	Laird NFC	NFC	N/A	N/A	Printed PCB Antenna & Connector Type Antenna
7	Laird	BL654-SA PCB printed antenna	Printed PCB	N/A	0	Printed PCB Antenna
8	Walsin	RFDPA870900SBAB8G1	Dipole	SMA	2	Connector Type Antenna

### 1.1.3 EUT Operational Condition

Power Supply Type	1.8Vdc & 3.3Vdc from host
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## 2 RF exposure evaluation

### 2.1 Limits

The device shall comply with the relevant limits as below table.

Exposure category	Frequency Range	Equivalent plane wave power flux density $S_{eq}(W/m^2)$
Occupational	400 ~ 2000 MHz	$F_M/40$
	2GHz ~ 300GHz	50
General public	400 ~ 2000 MHz	$F_M/200$
	2GHz ~ 300GHz	10

Note:  $F_M$  is frequency in MHz

### 2.2 Evaluation Formula

Follow below formula to evaluate power density.

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

Where

S= Power density in  $W/m^2$

$P_t$ = EIRP in W

$\pi$ = 3.1416

R= Measurement distance (m)

### 2.3 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	$\pm 0.808$ dB

<b>Declaration of Conformity:</b>
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
<b>Comments and Explanations:</b>
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.

## 2.4 Evaluation Results

BT						
Frequency Range (MHz)	Maximum E.I.R.P. (dBm)	Distance (m)	Power Density (W/m <sup>2</sup> )	Limit (W/m <sup>2</sup> )	*Ratio	PASS / FAIL
2402-2480	9.34	0.2	0.017	10	0.002	Pass

\*Ratio = Power density / Limit.

### 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 <https://www.icertifi.com.tw>.

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