

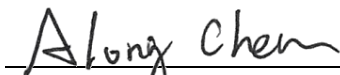
# FCC RF Exposure Report

**FCC ID** : SQG-WB50NBT  
**Equipment** : Wireless 802.11abgn + BT4.1 intelligent module  
**Model No.** : WB50NBT  
**Brand Name** : Laird Connectivity  
**Applicant** : Laird Connectivity  
**Address** : W66N220 Commerce Court, Cedarburg, Wisconsin 53012, USA  
**Standard** : 47 CFR FCC Part 2.1091  
**Received Date** : Apr. 02, 2020  
**Tested Date** : Apr. 02 ~ Jun. 05, 2020

We, International Certification Corp., 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 may be duplicated completely for legal use with the approval of the applicant. 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



Testing Laboratory  
2732

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## Release Record

Report No.	Version	Description	Issued Date
FA631002-07	Rev. 01	Initial issue	Jun. 29, 2020

# 1 General Description

## 1.1 Information

This report is issued as a supplementary report to the original project no. FA631002. The modification is concerned with

- ✧ decreasing output power by software setting
- ✧ adding new antennas.
- ✧ Adding channel 144 / 142 by software setting
- ✧ Updated brand name and applicant.

Therefore, related test items had been performed and presented in the following sections.

## 2 MPE EVALUATION OF MOBILE DEVICES

### 2.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	Power Density (mW /cm <sup>2</sup> )	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1.0	30

### 2.2 MPE EVALUATION FORMULA

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

Where

Pd= Power density in mW/cm<sup>2</sup>

Pt= EIRP in mW

Pi= 3.1416

R= Measurement distance

### 2.3 DEVIATION FROM TEST STANDARD AND MEASUREMENT PROCEDURE

None

### 2.4 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.

## 2.5 MPE EVALUATION RESULTS

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Rated Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Ratio*	Pass / Fail
WLAN								
2412-2462	20.38	20.5	2.79	20	0.042	1	0.042	Pass
5180-5240	20.41	20.5	3.9	20	0.055	1	0.055	Pass
5260-5320	19.59	20	3.9	20	0.049	1	0.049	Pass
5500-5720	20.17	20.5	4	20	0.056	1	0.056	Pass
5745-5825	19.44	19.5	4	20	0.045	1	0.045	Pass
BT								
2402-2480 (BT-BR)	5.87	6	2.79	20	0.002	1	0.002	Pass
2402-2480 (BT-LE)	5.80	6	2.79	20	0.002	1	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 Corp (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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If you have any suggestion, please feel free to contact us as below information.

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