

# **FCC RF Exposure Report**

FCC ID : SQG-WB50NBT

Equipment : Wireless 802.11abgn + BT4.1 intelligent

module

Model No. : WB50NBT

Brand Name : Laird Technologies

Applicant : Laird Technologies

Address : W66N220 Commerce Court, Cedarburg,

Wisconsin 53012, USA

Standard : 47 CFR FCC Part 2.1091

Received Date : Dec. 30, 2015

Tested Date : Jan. 27 ~ Mar. 31, 2016

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.

Approved & Reviewed by:

Gary Chang'/ Manager <

Iac-MRA



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## **Release Record**

Report No.	Version	Description	Issued Date
FA631002	Rev. 01	Initial issue	Apr. 15, 2016
FA631002	Rev. 02	Modified address of applicant.	May 03, 2016

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#### 1 MPE EVALUATION OF MOBILE DEVICES

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

#### 1.1 LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE

Frequency Range (MHz)	Power Density (mW /cm²)	Averaging Time (minutes)
300~1500	F/1500	30
1500~100000	1.0	30

#### 1.2 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

#### 1.3 MPE EVALUATION RESULTS

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)			
For WLAN								
2412~2462	22.63	2.79	20	0.069	1			
5180~5240	21.68	3.9	20	0.072	1			
5260~5320	21.81	3.9	20	0.074	1			
5500~5700	21.94	4	20	0.078	1			
5745~5825	21.47	4	20	0.070	1			
For BT								
2402~2480 EDR	5.87	2.79	20	0.001	1			
2402~2480 LE	5.80	2.79	20	0.001	1			

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### 2 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, 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 Hsiang. Location map can be found on our website <a href="http://www.icertifi.com.tw">http://www.icertifi.com.tw</a>.

Linkou

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou District, New Taipei City, Taiwan,

R.O.C.

Kwei Shan

Tel: 886-3-271-8666 No. 3-1, Lane 6, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C. Kwei Shan Site II

Tel: 886-3-271-8640

No. 14-1, Lane 19, Wen San 3rd St., Kwei Shan Hsiang, Tao Yuan Hsien 333, Taiwan, R.O.C.

If you have any suggestion, please feel free to contact us as below information

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Email: ICC\_Service@icertifi.com.tw

<u>==END</u>==

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