# **FCC RF Exposure Report**

FCC ID : SQG-WB45NBT

Equipment : 45 Series WB module with Bluetooth

Model No. : WB45NBT

Brand Name : Laird Technologies

Applicant : Laird Technologies

Address : 11160 Thompson Ave. / Lenexa, Kansas /

66219 / USA

Standard : 47 CFR FCC Part 2.1091

Received Date : May 03, 2013

Tested Date : May 17 ~ Jun. 10, 2013

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

lac-MRA

Testing Laboratory

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Report No.: FA350301

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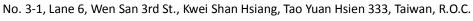


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## **Release Record**

Report No.	Version	Description	Issued Date	
FA350301	Rev. 01	Initial issue	Aug. 20, 2013	

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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

Mode	Frequency Range (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
BT EDR	2402~2480	7.98	2.79	20	0.002	1
BT LE	2402~2480	8.30	2.79	20	0.003	1
Wi-Fi	2412~2462	18.58	2.79	20	0.027	1
Wi-Fi	5180~5240	19.09	3.9	20	0.040	1
Wi-Fi	5260~5320	16.91	3.9	20	0.024	1
Wi-Fi	5500~5700	16.73	4	20	0.024	1
Wi-Fi	5745~5825	17.89	4	20	0.031	1

==END==

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