

# FCC RF Exposure Report

**FCC ID** : NKR-DAUBF1  
**Equipment** : Wireless LAN Adaptor  
**Model No.** : DAUB-F1  
**Brand Name** : PHILIPS  
**Applicant** : Wistron NeWeb Corp.  
**Address** : 20 Park Avenue II, Hsinchu Science Park,  
Hsinchu 308, Taiwan, R.O.C.  
**Standard** : 47 CFR FCC Part 2.1091  
**Received Date** : Aug. 06, 2015  
**Tested Date** : Aug. 06 ~ Dec. 28, 2015

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:

  
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Gary Chang / Manager



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## Table of Contents

<b>1</b>	<b>MPE EVALUATION OF MOBILE DEVICES .....</b>	<b>4</b>
1.1	LIMITS FOR GENERAL POPULATION/UNCONTROLLED EXPOSURE.....	4
1.2	MPE EVALUATION FORMULA .....	4
1.3	MPE EVALUATION RESULTS .....	5
<b>2</b>	<b>TEST LABORATORY INFORMATION .....</b>	<b>6</b>

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## Release Record

Report No.	Version	Description	Issued Date
FA5N2601	Rev. 01	Initial issue	Jan. 14, 2016

## 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 /cm <sup>2</sup> )	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

#### Non Beamforming

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412~2462	22.99	4.15	20	0.103	1
5180~5240	17.73	3.3	20	0.025	1
5260~5320	18.16	3.17	20	0.027	1
5500~5720	22.59	3.31	20	0.077	1
5745~5825	21.43	3.33	20	0.060	1

#### Beamforming

Frequency Range (MHz)	Maximum Conducted Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412~2462	22.78	6.73	20	<b>0.178</b>	1
5180~5240	17.91	6.21	20	0.051	1
5260~5320	18.15	6.15	20	0.054	1
5500~5720	22.76	6.04	20	<b>0.151</b>	1
5745~5825	20.67	6.01	20	0.093	1

#### Note:

- For 2412~2462 MHz band  
 Directional gain =  $10 * \log((10^{3.26/20} + 10^{4.15/20})^2 / 2) = 6.73$  dBi  
 For 5150~5250 MHz band  
 Directional gain =  $10 * \log((10^{3.3/20} + 10^{3.1/20})^2 / 2) = 6.21$  dBi  
 For 5260~5320MHz band  
 Directional gain =  $10 * \log((10^{3.17/20} + 10^{3.1/20})^2 / 2) = 6.15$  dBi  
 For 5500~5720MHz band  
 Directional gain =  $10 * \log((10^{3.31/20} + 10^{2.73/20})^2 / 2) = 6.04$  dBi  
 For 5745~5850 MHz band  
 Directional gain =  $10 * \log((10^{3.33/20} + 10^{2.65/20})^2 / 2) = 6.01$  dBi

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

### **Linkou**

Tel: 886-2-2601-1640

No. 30-2, Ding Fwu Tsuen, Lin Kou  
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R.O.C.

### **Kwei Shan**

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### **Kwei Shan Site II**

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

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