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# RF EXPOSURE REPORT

**REPORT NO.:** SA120130C21

**MODEL NO.:** ENH210, ENH210EXT

**FCC ID:** A8J-ENH210

**RECEIVED:** Jan. 30, 2012

**TESTED:** Feb. 08 ~ Feb. 13, 2012

**ISSUED:** Feb. 15, 2012

**APPLICANT:** EnGenius Technologies

**ADDRESS:** 1580 Scenic Avenue, Costa Mesa, CA92626

**ISSUED BY:** Bureau Veritas Consumer Products Services  
(H.K.) Ltd., Taoyuan Branch

**LAB ADDRESS:** No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,  
New Taipei City, Taiwan ( R.O.C )

**TEST LOCATION:** No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei  
Shan Hsiang, Taoyuan Hsien 333, Taiwan,  
R.O.C.

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120130C21	Original release	Feb. 15, 2012



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## 1. CERTIFICATION

**PRODUCT:** Wireless Enterprise AP/CB

**MODEL:** ENH210, ENH210EXT

**BRAND:** EnGenius

**APPLICANT:** EnGenius Technologies

**TESTED:** Feb. 08 ~ Feb. 13, 2012

**TEST SAMPLE:** ENGINEERING SAMPLE

**STANDARDS:** FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: ENH210) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Polly Chien , DATE : Feb. 15, 2012  
Polly Chien / Specialist

APPROVED BY : Gary Chang , DATE : Feb. 15, 2012  
Gary Chang / Technical Manager



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## 2. RF EXPOSURE

### 2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 2.2 MPE CALCULATION FORMULA

$$Pd = (Pout * G) / (4 * \pi * r^2)$$

where

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

Pout = output power to antenna in mW

G = gain of antenna in linear scale

$\pi$  = 3.1416

R = distance between observation point and center of the radiator in cm

### 2.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.



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## 2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

MODULATION MODE	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
802.11b	27.0	8	20	0.629	1
802.11g	27.8	8	20	0.756	1
802.11n (20MHz)	27.4	5	20	0.346	1
802.11n (40MHz)	27.4	5	20	0.346	1

NOTE:

For 802.11b/g: Directional gain = 5dBi + 10log(2) = 8dBi