



RF EXPOSURE REPORT

REPORT NO.: SA110322C07

MODEL NO.: EMP5605H

FCC ID: U2M-MP5605H

ACCORDING: FCC Part 2 (Section 2.1091)

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

IEEE C95.1

APPLICANT: Senao Networks, Inc.

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

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TEST LOCATION: No. 19, Hwa Ya 2nd Rd, Wen Hwa Tsuen, Kwei
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
Original release	NA	Jun. 14, 2011

1. CERTIFICATION

PRODUCT: Wireless LAN Card
MODEL NO.: EMP5605H
BRAND: EnGenius
APPLICANT: Senao Networks, Inc.
TEST SAMPLE: ENGINEERING SAMPLE
TESTED: Mar. 21 ~ May 13, 2011
STANDARDS: **FCC Part 2 (Section 2.1091)**
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment (Model: EMP 5605H) 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 : Ivy Lin , **DATE:** Jun. 14, 2011
Ivy Lin / Specialist

APPROVED BY : Gary Chang , **DATE:** Jun. 14, 2011
Gary Chang / Assistant Manager

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 ²)	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

$$P_d = (P_{out} * G) / (4 * \pi * r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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**.

2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MODULATION MODE	MAX CONDUCTED POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
5180-5240	802.11a	15.3	7.51	20	0.038	1
	802.11n (20MHz)	16.8	4.5	20	0.027	1
	802.11n (40MHz)	16.6	4.5	20	0.026	1
5745-5825	802.11a	27.7	7.51	20	0.660	1
	802.11n (20MHz)	27.6	4.5	20	0.323	1
	802.11n (40MHz)	28.6	4.5	20	0.406	1

NOTE:

802.11a: Directional gain = 4.5dBi + 10log(2) = 7.51dBi