



A D T

RF EXPOSURE REPORT

REPORT NO.: SA110915C27

MODEL NO.: WBR5200MGN, WBR4200MGN,
WBR-7070, WLR-6000 v1 001,
WLR-5000 v1 002

FCC ID: U2M-WBR5200MGN

RECEIVED: Sep. 15, 2011

TESTED: Oct. 3 ~ 5, 2011

ISSUED: Oct. 19, 2011

APPLICANT: Senao Networks, Inc.

ADDRESS: 3F, No. 529, Chung Cheng Rd., Hsintien, Taipei,
Taiwan, R.O.C.

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

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

This test report consists of 6 pages in total. It may be duplicated completely for legal use with the approval of the applicant. It should not be reproduced, except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval or endorsement by any government agency. The test results in the report only apply to the tested sample.



TABLE OF CONTENTS

RELEASE CONTROL RECORD	3
1. CERTIFICATION.....	4
2. RF EXPOSURE LIMIT	5
3. MPE CALCULATION FORMULA	5
4. CLASSIFICATION.....	5
5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER.....	6



RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA110915C27	Original release	Oct. 19, 2011



1. CERTIFICATION

PRODUCT: 802.11abgn Router
BRAND NAME 1: Senao Networks
MODEL NO.: WBR5200MGN, WBR4200MGN
BRAND NAME 2: LG-ERICSSON
MODEL NO.: WBR-7070
BRAND NAME 3: SITECOM
MODEL NO.: WLR-6000 v1 001, WLR-5000 v1 002
APPLICANT: Senao Networks, Inc.
TEST ITEM: ENGINEERING SAMPLE
TESTED: Oct. 3 ~ 5, 2011
STANDARDS: FCC Part 2 (Section 2.1091)
FCC OET Bulletin 65, Supplement C (01-01)
IEEE C95.1

The above equipment (model no.: WBR5200MGN) 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 : Celia Chen , DATE: Oct. 19, 2011
(Celia Chen / Senior Specialist)

APPROVED BY : Ken Liu , DATE: Oct. 19, 2011
(Ken Liu / Manager)

2. RF EXPOSURE LIMIT

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

3. MPE CALCULATION FORMULA

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

where

Pd = power density in mW/cm²

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

4. 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**.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

FREQUENCY BAND (MHz)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412-2462	26.1	4.69	20	0.2386	1.00
5180-5240	16.9	4.64	20	0.0284	1.00
5745-5825	27.6	4.64	20	0.3332	1.00

--- END ---