



RF EXPOSURE REPORT

REPORT NO.: SA120420C08

MODEL NO.: WNDR4300

FCC ID: PY312100187

RECEIVED: Apr. 20, 2012

TESTED: May 04 ~ May 23, 2012

ISSUED: May 31, 2012

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ISSUED BY: Bureau Veritas Consumer Products Services
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA120420C08	Original release	May 31, 2012

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)	MAX POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm ²)
2412-2462	25.9	6.03	20	0.310	1
5180-5240	15.6	7.27	20	0.039	1
5745-5825	23.6	7.27	20	0.243	1

NOTE:

FOR 2.4GHz: Directional gain = 3.02dBi + 10log(2) = 6.03dBi

FOR 5.0GHz: Directional gain = 2.50dBi + 10log(3) = 7.27dBi