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# RF EXPOSURE REPORT

**REPORT NO.:** SA110701C24

**MODEL NO.:** UTM9SWLSN

**FCC ID:** PY311300172

**RECEIVED:** Jul. 1, 2011

**TESTED:** Sep. 15 ~ 20, 2011

**ISSUED:** Sep. 26, 2011

**APPLICANT:** Netgear Incorporated

**ADDRESS:** 350 East Plumeria Drive San Jose, CA 95134  
U.S.A

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

**LAB LOCATION:** No. 47, 14th Ling, Chia Pau Vil., Lin Kou Dist.,  
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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA110701C24	Original release	Sep. 26, 2011



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## 1. CERTIFICATION

**PRODUCT:** UTM Security Wireless Module  
**BRAND NAME:** NETGEAR  
**MODEL NO.:** UTM9SWLSN  
**APPLICANT:** Netgear Incorporated  
**TEST ITEM:** ENGINEERING SAMPLE  
**TESTED:** Sep. 15 ~ 20, 2011  
**STANDARDS:** FCC Part 2 (Section 2.1091)  
FCC OET Bulletin 65, Supplement C (01-01)  
IEEE C95.1

The above equipment 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: Sep. 26. 2011  
( Celia Chen / Senior Specialist )

APPROVED BY : Ken Liu , DATE: Sep. 26. 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 <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

### 3. MPE CALCULATION FORMULA

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

where

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = 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 <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412-2462	27.6	1.8	20	0.1733	1.00
5180-5240	15.4	1.8	20	0.0104	1.00
5745-5825	24.4	1.8	20	0.0829	1.00

**Note:** The EUT was limited in the host equipment (Product Name: DSL&Wireless N Capable UTM Security Appliance, Brand: NETGEAR, Model No.: UTM9S).

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