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# RF EXPOSURE REPORT

**REPORT NO.:** SA140625C09

**MODEL NO.:** PCE3302AN

**FCC ID:** Q6G-PCE3302

**RECEIVED:** Jun. 25, 2014

**TESTED:** Jul. 01 ~ Jul. 10, 2014

**ISSUED:** Jul. 31, 2014

**APPLICANT:** WatchGuard Technologies, Inc.

**ADDRESS:** 505 Fifth Avenue South, Suite 500, Seattle, WA  
98104, United States

**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  
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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA140625C09	Original release.	Jul. 31, 2014

## 1. CERTIFICATION

**PRODUCT:** Module  
**MODEL:** PCE3302AN  
**BRAND:** WatchGuard  
**APPLICANT:** WatchGuard Technologies, Inc.  
**TESTED:** Jul. 01 ~ Jul. 10, 2014  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**STANDARDS:** **FCC Part 2 (Section 2.1091)**  
**KDB 447498 D03**  
**IEEE C95.1**

The above equipment (Model: PCE3302AN) 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 :**  , **DATE :** Jul. 31, 2014  
Ivy Lin / Specialist

**APPROVED BY :**  , **DATE :** Jul. 31, 2014  
Ken Liu / Senior 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 <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

### 2.2 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

### 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 <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2412-2462	28.72	8.21	20	0.981	1
5180-5240	20.49	8.71	20	0.165	1
5745-5825	19.35	9.21	20	0.143	1

\*The 2.4GHz and 5GHz cannot transmit simultaneously.

### NOTE:

2.4GHz Band: Directional gain = 5.2dBi + 10log(2) = 8.21dBi

5180-5240MHz Band: Directional gain = 5.7dBi + 10log(2) = 8.71dBi

5745-5825 MHz Band: Directional gain = 6.2dBi + 10log(2) = 9.21dBi