# RF EXPOSURE REPORT

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|---|---|
| **REPORT NO.:** | SA121128C11 |
| **MODEL NO.:** | DGW101 |
| **FCC ID:** | RD2DW101001 |
| **RECEIVED:** | Nov. 16, 2012 |
| **TESTED:** | Nov. 16 ~ Dec. 04, 2012 |
| **ISSUED:** | Dec. 06, 2012 |

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|---|---|
| **APPLICANT:** | DXG Technology Corp. |
| **ADDRESS:** | 15Fl., No. 4, Sec. 3, Ming-Chuan East Rd., Taipei, Taiwan R.O.C. |

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|---|---|
| **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 Shan Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C. |

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# RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---|---|---|
| SA121128C11 | Original release | Dec. 06, 2012 |

# 1. CERTIFICATION

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|---|---|
| **PRODUCT:** | RF MODULE |
| **MODEL NO.:** | DGW101 |
| **BRAND:** | DXG |
| **APPLICANT:** | DXG Technology Corp. |
| **TESTED:** | Nov. 16 ~ Dec. 04, 2012 |
| **TEST SAMPLE:** | ENGINEERING SAMPLE |
| **STANDARDS:** | **FCC Part 2 (Section 2.1091)** |
| | **FCC OET Bulletin 65, Supplement C (01-01)** |
| | IEEE C95.1 |

The above equipment (model: DGW101) 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** : Maggie Wu , **DATE :** Dec. 06, 2012

Maggie Wu / Specialist

**APPROVED BY** : Ken Liu , **DATE :** Dec. 06, 2012

Ken Liu / 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

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

where

Pd = power density in $mW/cm^2$

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

## 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 ($W/m^2$) |
|---|---|---|---|---|---|
| 2412-2462 | 21.90 | 2.27 | 20 | 0.0520 | 1 |