

RF EXPOSURE REPORT

REPORT NO.: SA130813C26

MODEL NO.: NVG599

FCC ID: GZ5NVG599

RECEIVED: Aug. 13, 2013

TESTED: Aug. 19 ~ Nov. 14, 2013

ISSUED: Nov. 19, 2013

APPLICANT: ARRIS Group, Inc.

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ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-------------|-------------------|---------------|
| SA130813C26 | Original release | Nov. 19, 2013 |

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1. CERTIFICATION

PRODUCT: DSL

MODEL: NVG599

BRAND: ARRIS

APPLICANT: ARRIS Group, Inc.

TESTED: Aug. 19 ~ Nov. 14, 2013

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: NVG599) 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 : Nov. 19, 2013

Pettie Chen / Senior Specialist

APPROVED BY : \(\(\sum_{\colored} \) \(

Ken Liu / Senior Manager



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| FREQUENCY RANGE (MHz) | ELECTRIC FIELD STRENGTH (V/m) | RIC FIELD MAGNETIC FIELD POWER DENSIT STRENGTH (A/m) (mW/cm²) | | AVERAGE TIME (minutes) | | | | |
|---|----------------------------------|---|-----|------------------------|--|--|--|--|
| LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE | | | | | | | | |
| 300-1500 | | | | 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/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

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/cm²) |
|----------------------------|--------------------|--------------------------|------------------|---|-------------------|
| 2.4GHz Band | 26.97 | 2.5 | 20 | 0.176 | 1 |
| 5.0GHz Band | 29.60 | 3 | 20 | 0.362 | 1 |

CONCULSION:

Both of the WLAN 2.4G & WLAN 5G can transmit simultaneously, the formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

1. WLAN 2.4G + WLAN 5.0G = 0.176 + 0.362 = 0.538

Therefore, the maximum calculation of this situation is 0.538, which is less than the "1" limit.