

RF EXPOSURE REPORT

REPORT NO.: SA111004C12

MODEL NO.: Air4420

FCC ID: Z3W-00001-AIR4420

RECEIVED: Oct. 04, 2011

TESTED: Oct. 17 ~ Oct. 28, 2011

ISSUED: Nov. 01, 2011

APPLICANT: AirTies Wireless Networks

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ISSUED BY: Bureau Veritas Consumer Products Services

(H.K.) Ltd., Taoyuan Branch

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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 |
|------------------|-------------------|---------------|
| Original release | NA | Nov. 01, 2011 |

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1. CERTIFICATION

PRODUCT: 300 Mbps Dualband 1 Port Ap/Router

MODEL: Air4420

BRAND: AirTies

APPLICANT: AirTies Wireless Networks

TESTED: Oct. 17 ~ Oct. 28, 2011

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: Air4420) 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

, DA

Nov. 01, 2011

APPROVED BY

Gary Chang & Technical Manager

DATE: Nov. 01, 20



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/cm²) | 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*r2)

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 CONDUCTED POWER (dBm) | ANTENNA GAIN (dBi) | DISTANCE (cm) | POWER DENSITY (mW/cm²) | LIMIT (mW/cm²) |
|----------------------------|------------------------------------|--------------------------|------------------|------------------------------|-------------------|
| 2412-2462 | 29.7 | 2 | 20 | 0.294 | 1 |
| 5180-5240 | 16.8 | 3.5 | 20 | 0.021 | 1 |
| 5745-5825 | 26.7 | 3.5 | 20 | 0.208 | 1 |