



RF EXPOSURE REPORT

REPORT NO.: SA110415E02

MODEL NO.: NWA1100-N

FCC ID: I88NWA1100N

ACCORDING: FCC Guidelines for Human Exposure
IEEE C95.1

APPLICANT: ZyXEL Communications Corporation

ADDRESS: No.6 Innovation Road II.Science Park,Hsin -Chu,
Taiwan

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

LAB ADDRESS: No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA110415E02	Original release	May 13, 2011

1.CERTIFICATION

PRODUCT: 802.11 b/g/n PoE Access Point
BRAND NAME: ZyXEL
MODEL NO.: NWA1100-N
TEST SAMPLE: ENGINEERING SAMPLE
APPLICANT: ZyXEL Communications Corporation
STANDARDS: IEEE C95.1

The above equipment (Model: NWA1100-N) 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:** May 13, 2011
(Carol Liao, Specialist)

APPROVED BY :  , **DATE:** May 13, 2011
(May Chen, Deputy 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 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

3.MPE calculation Formula

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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)	CONDUCTED POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm ²)	LIMIT (mW/cm ²)
2412-2462	521.7	5.1	20	0.336	1.00

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