

RF Exposure Report

Report No.: SA160727E13

FCC ID: O5P-AN-N20-01

Test Model: AN-N20-01

Received Date: July 27, 2016

Test Date: Aug. 02, 2016

Issued Date: Mar. 06, 2017

Applicant: VIVOTEK INC.

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

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Release Control Record

Issue No.	Description	Date Issued
SA160727E13	Original release.	Mar. 06, 2017

1 Certificate of Conformity

Product: Wireless Router

Brand: VIVOTEK

Test Model: AN-N20-01

Sample Status: ENGINEERING SAMPLE

Applicant: VIVOTEK INC.

Test Date: Aug. 02, 2016

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1-1992

The above equipment 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 : Midoli Peng , **Date:** Mar. 06, 2017
Midoli Peng / Specialist

Approved by : May Chen , **Date:** Mar. 06, 2017
May Chen / 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/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 Antenna Gain

The antennas provided to the EUT, please refer to the following table:

Ant. No	Transmitter Circuit	Antenna Net Gain (dBi)	Antenna Type	Connector Type	Frequency range (GHz to GHz)	Cable Length (mm)
1	Chain (0)	5	Dipole	none	2.4~2.4835	60
2	Chain (1)	5	Dipole	none	2.4~2.4835	145

2.5 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	352.136	8.01	20	0.44304	1

NOTE:

Directional gain = 5dBi + 10log(2) = 8.01dBi

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