

RF Exposure Report

Report No.: SA160920E06 R2

FCC ID: 2AD8UFW2QADPM01

Test Model: FW2QADPM01

Received Date: Sep. 20, 2016

Test Date: Oct. 14, 2016

Issued Date: Sep. 13, 2018

Applicant: Nokia Solutions and Networks, OY.

Address: 2000 W. Lucent Lane, Naperville, IL 60563, USA

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
SA160920E06	Original release.	Mar. 02, 2017
SA160920E06 R1	Modified the applicant address.	Apr. 25, 2018
SA160920E06 R2	Modified the applicant name and added the FCC ID.	Sep. 13, 2018

1 Certificate of Conformity

Product: Flexi Zone Multiband Indoor Pico BTS

Brand: Nokia

Test Model: FW2QADPM01

Sample Status: MASS-PRODUCTION

Applicant: Nokia Solutions and Networks, OY.

Test Date: Oct. 14, 2016

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

IEEE C95.1

FCC Part 1 (Section 1.1310)

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 :

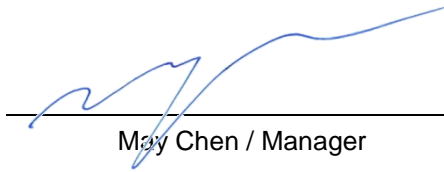


Date:

Sep. 13, 2018

Claire Kuan / Specialist

Approved by :



Date:

Sep. 13, 2018

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)
(A)Limits For Occupational / Control Exposures				
300-1500	F/300	6
1500-100,000	5	6
(B)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 **fixed device** and installations by professional service personnel.

2.4 Antenna Gain

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

Antenna Spec.					
Antenna Condition	Brand	Model	Antenna Type	Antenna Net Gain(dBi)	Frequency range
Chain0	NA	NA	Slot Antenna	6.36	3.4~3.8GHz
Chain1	NA	NA	Slot Antenna	4.61	3.4~3.8GHz

Cable Spec.				
Brand	Model	Connector Type	Cable Loss(dB)	Cable Length (mm)
NA	NA	Right angle MMCX Plug	peak gain included	287mm

2.5 Calculation Result

For General Population

Operating Frequency (MHz)	Max. EIRP Power (dBm)	Max. EIRP Power (mW)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
3560	28.88	772.681	20	0.153719559	1

For Occupational

Operating Frequency (MHz)	Max. EIRP Power (dBm)	Max. EIRP Power (mW)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
3560	28.88	772.681	20	0.153719559	5

3 Brief Summary of results

The wireless device described within this report has been shown to be capable of compliance with the basic restrictions related to human exposure to electromagnetic fields for both General public and Occupational. The calculations shown in this report were made in accordance the procedures specified in the applied test specification(s)

Configuration	Required Compliance Boundary(m)	
	Occupational	General Population
LTE CBRS Band	0.2	0.2

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