RF Exposure Report

Report No.:	SA150716C07D
FCC ID:	U2M-OAP7250AG
Test Model:	OAP7250AG
Received Date:	Aug. 27, 2015
Test Date:	Sep. 04 ~ Sep. 18, 2015
Issued Date:	Sep. 25, 2015
Applicant:	Senao Networks, Inc.
Address:	3F, No. 529, Chung Cheng Rd., Hsintien, New Taipei City, R.O.C
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
SA150716C07D	Original release	Sep. 25, 2015

1 Certificate of Conformity

Product:	Wireless 802.11ac/b/g/n access point
Brand:	Senao Networks
Test Model:	OAP7250AG
Sample Status:	Engineering Sample
Applicant:	Senao Networks, Inc.
Test Date:	Sep. 04 ~ Sep. 18, 2015
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D03 IEEE C95.1

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 : Celine Chou , **Date:** Sep. 25, 2015

Celine Chou / Specialist

Approved by : Ken Liu , **Date:** Sep. 25, 2015

Ken Liu / Senior 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/cm^2

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 21cm away from the body of the user. So, this device is classified as **Mobile Device**.

3 Calculation Result Of Maximum Conducted Power

Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2412-2462	24.71	10.18	21	0.556	1
5180-5240	23.13	2.44	21	0.065	1
5745-5825	22.40	10.80	21	0.377	1

Note:
2412 ~ 2462MHz: Directional gain = 5.41dBi + 10log(3) = 10.18dBi
5180 ~ 5240MHz: Directional gain = -2.33dBi + 10log(3) = 2.44dBi
5745 ~ 5825MHz: Directional gain = 6.03dBi + 10log(3) = 10.80dBi

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

WLAN 2.4G + WLAN 5.0G = 0.556 + 0.377 = 0.933

Therefore, the maximum calculation of this situation is 0.933, which is less than the “1” limit.

---END---