

RF EXPOSURE REPORT

REPORT NO.: SA140224C17D
MODEL NO.: MR1750
FCC ID: WT8-MR1750
RECEIVED: Feb. 24, 2014
TESTED: Mar. 13 ~ Mar. 20, 2014
ISSUED: Jan. 07, 2015

APPLICANT: Open Mesh, Inc.

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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 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
SA140224C17D	Original release	Jan. 07, 2015



1. CERTIFICATION

PRODUCT:Wireless a/b/g/n/AC Access PointMODEL:MR1750BRAND:Open MeshAPPLICANT:Open Mesh, Inc.TEST SAMPLE:ENGINEERING SAMPLESTANDARDS:FCC Part 2 (Section 2.1091)KDB 447498 D03IEEE C95.1

The above equipment (Model: EAP1750H) 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 : Jan. 07, 2015

Pettie Chen / Senior Specialist

APPROVED BY

Ken Liu / Senior Manager

Jan. 07, 2015 , DATE :



2. RF EXPOSURE

2.1 LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)		MAGNETIC FIELD STRENGTH (A/m)		AVERAGE TIME (minutes)					
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE									
300-1500	500		F/1500	30					
1500-100,000	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 30cm 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 POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm ²)	LIMIT (mW/cm²)
2412-2462	28.69	8.77	30	0.493	1
5180-5240	16.72	9.77	30	0.039	1
5745-5825	27.74	9.77	30	0.498	1

NOTE:

2.4GHz Band: Directional gain = 4dBi + 10log(3) = 8.77dBi**5.0GHz Band:** Directional gain = 5dBi + 10log(3) = 9.77dBi

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 = 0.493 + 0.498 = 0.991

Therefore, the maximum calculation of this situation is 0.991, which is less than the "1" limit.