



Maximum Permissible Exposure

FCC ID: HQXWVOM541AP
APPLICANT: Sysgration Ltd.
Application Type: Certification
Product: 5.6" Wireless Monitor
Model No.: WVOM541AP
FCC Rule Part(s): Part 2.1091 (Mobile)
Test Date: October 10, 2019 ~ October 24, 2019

Reviewed By :

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Approved By :

Chenz Ker

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The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Test results reported herein relate only to the item(s) tested.

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Revision History

Report No.	Version	Description	Issue Date
1910TW5501-U2	1.0	Original Report	2019-10-25

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name	5.6" Wireless Monitor
Model No.	WVOM541AP
Supports Radios Spec.	FHSS 2.4GHz
Frequency Range	2403~2478MHz
Type of modulation	FHSS (QPSK)

1.2. Antenna Description

No.	Manufacturer	Part No.	Antenna Type	Peak Gain
1	Master Wave	98152MSAX004	Dipole	3.91dBi

2. MAXIMUM PERMISSIBLE EXPOSURE (MPE)

2.1. Limits

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

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				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f ²	6
30-300	61.4	0.163	1.0	6
300-1500	--	--	f/300	6
1500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3-1.4	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1500	--	--	f/1500	30
1500-100,000	--	--	1.0	30

Note : (1) f= Frequency in MHz , (2) * = Plane-wave equivalent power density

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

Under normal use condition, is at least 20cm away from the body of the user .

So, this device is classified as **Mobile Device**.

2.2. Test Result

Frequency Band (MHz)	Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2403 ~ 2478	15.66	36.8129	3.91	20	0.0180	1

So, device can comply with FCC radiation exposure requirement specified in the FCC Rule 2.1091.

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