

# RF Exposure Report

**FCC ID: 2AC23-W79M1510S**

**FCC 47 CFR Part 15 Subpart C**

Class II Change

**Product :** WIFI Module

**Trade Name :** GSD

**Model Number :** W79M1110, W79M1510S

## Issued for

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## MPE Calculation

**1. Antenna Gain:**

PIFA Antenna: 2.4~2.5GHz: 3.0 dBi

**2. EUT Operation Condition:**

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

**3. Exposure Evaluation:**

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = (PG) / 4\pi R^2$$

Where

**S:** power density

**P:** power input to the antenna

**G:** power gain of the antenna in the direction of interest relative to an isotropic radiator.

**R:** distance to the center of radiation of the antenna

**4. Test Result:**

2.4G BAND MPE Result						
Mode	N <sub>TX</sub>	Frequency (MHz)	Power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm <sup>2</sup> ) [S]
802.11b	1	2437	19.68	3.0	20	0.0368
802.11g	1	2462	15.89	3.0	20	0.0154
802.11n (HT20)	1	2462	16.28	3.0	20	0.0169
802.11n (HT40)	1	2462	14.87	3.0	20	0.0121

**Note:**

(1) N<sub>TX</sub>= Number of Transmit Antennas

(2) RF Output power specifies that Maximum Conducted Peak Output Power.

**5. Conclusion:**

**FCC and IC:**

FCC: As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),  
 IC: As specified in 4.2 RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment)

**Limits for General Population/ Uncontrolled Exposure**

Frequency Range (MHz)	Power density (mW/ cm <sup>2</sup> )
300-1,500	F/1500

1,500-100,000	1.0
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For WLAN 2.4G BAND

MPE limit S: 1 mW/ cm<sup>2</sup>

The MPE is calculated as 0.0368mW / cm<sup>2</sup> < limit 1 mW / cm<sup>2</sup>. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

**Note**

For a more detailed features description, please refer to the RF Test Report.