

RF Exposure Report

FCC ID: 2AC23-WF75RL1510C

Product : WIFI Module

Trade Name : GSD

Model Number : WF75RL1510C

Issued for

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MPE Calculation

1. Antenna Gain:

WIFI PIFA Antenna: 2.412~2.462 GHz: 1.88 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:

| MPE Result | | | | | | |
|------------|-----------------|-----------------|-----------------|--------------------|-------------------|---|
| Mode | N _{TX} | Frequency (MHz) | Power (dBm) [P] | ANT Gain (dBi) [G] | Distance (cm) [R] | Power Density (mW/cm ²) [S] |
| 2.4G WIFI | 1 | 2462 | 19.55 | 1.88 | 20 | 0.0276 |

Note:

(1) N_{TX}= 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 ²) |
|-----------------------|--------------------------------------|
| 300-1,500 | F/1500 |
| 1,500-100,000 | 1.0 |

For all the operating frequency band the MPE limit S: 1 mW/ cm²

The maximum MPE is calculated as 0.0276mW / cm² < limit 1 mW / cm². 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.