

# RF Exposure Report

**FCC ID: 2AC23-WT39M2011T**

**Product :** WIFI+BT Module

**Trade Name :** GSD

**Model Number :** WT39M2011T

**Issued for**

Hui Zhou Gaoshengda Technology Co.,LTD

NO.75 Zhongkai Development Area, Huizhou, Guangdong, China

**Issued by**

Shenzhen ATL Testing Technology Co., Ltd.

F/4, Building 10, Dayuan Industrial Zone, Xili Town, Nanshan District, Shenzhen,  
China

Tel.: +86-0755-26909822 Fax.: +86-0755-61605504

Website: [www.atllab.org](http://www.atllab.org)

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## MPE Calculation

**1. Antenna Gain:**

BT FPC Antenna: 2.402~2.48 GHz: 3.96 dBi  
 WIFI FPC Antenna: 2.412~2.462 GHz: 2.02 dBi  
 WIFI FPC Antenna: 5.15~5.25GHz: 2.78 dBi  
 WIFI FPC Antenna: 5.725~5.85GHz: 2.31 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 <sub>TX</sub>	Frequency (MHz)	Power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/cm <sup>2</sup> ) [S]
BT	1	2480	2.95	3.96	20	0.0010
BT(BLE)	1	2480	1.60	3.96	20	0.0007
2.4G WIFI	2	2412	19.89	2.02	20	0.0309
U-NII-1 Band WIFI	Ant 0	5240	15.41	2.78	20	0.0131
	Ant 1	5240	14.46	2.78	20	0.0105
U-NII-1 Band WIFI Total						0.0236
U-NII-3 Band WIFI	Ant 0	5745	11.67	2.31	20	0.0049
	Ant 1	5745	11.09	2.31	20	0.0044
U-NII-3 Band WIFI Total						0.0093

**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

For all the operating frequency band the MPE limit S: 1 mW/ cm<sup>2</sup>

The maximum MPE is calculated as 0.0309mW / 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.