

FCC RF EXPOSURE REPORT

FCC ID: VYVBW1352-PCIE

Project No. : 1906C176
Equipment : Module
Brand Name : N/A
Test Model : BW1352-PCIE
Series Model : N/A
Applicant : Iton Technology Corp.
Address : 7 Floor East, Building C, Shenzhen International Innovation Center, No. 1006 Shennan Road, Futian District, Shenzhen, China
Manufacturer : Iton Technology Corp.
Address : 7 Floor East, Building C, Shenzhen International Innovation Center, No. 1006 Shennan Road, Futian District, Shenzhen, China
Factory : Longgang branch of Iton Technology Crop.
Address : Floor2~3,east side of building A,weixinda science and technology park,NO.95,ainan road,longgang street,longgang district,shenzhen
Date of Receipt : Jun. 26, 2019
Date of Test : Jun. 27, 2019 ~ Oct. 16, 2019
Issued Date : Nov. 15, 2019
Report Version : R01
Test Sample : Engineering Sample No.: DG201908301
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

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REPORT ISSUED HISTORY

| Report Version | Description | Issued Date |
|----------------|---------------------------|---------------|
| R00 | Original Issue. | Nov. 12, 2019 |
| R01 | Changed the product name. | Nov. 15, 2019 |

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

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

Table for Filed Antenna:

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|---|------------|--------------|-----------|------------|
| 1 |  | N/A | PCB | N/A | 0 |
| 2 |  | N/A | PCB | N/A | 0 |

Note:

Antenna Gain=0 dBi. This EUT supports MIMO 2X2, any transmit signals are correlated with each other, so Directional gain= $G_{ANT}+10\log(N)$ dBi, that is Directional gain= $0+10\log(2)$ dBi=3.01.

2. TEST RESULTS

For WLAN 2.4GHz:

| Directional Gain (dBi) | Directional Gain (numeric) | Max. Average Output Power (dBm) | Max. Average Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|------------------------|----------------------------|---------------------------------|--------------------------------|---|--|-------------|
| 3.01 | 1.9999 | 22.61 | 182.3896 | 0.07260 | 1 | Complies |

For RLAN 5GHz UNII-1:

| Directional Gain (dBi) | Directional Gain (numeric) | Max. Output Power (dBm) | Max. Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|------------------------|----------------------------|-------------------------|------------------------|---|--|-------------|
| 3.01 | 1.9999 | 19.68 | 92.8966 | 0.03698 | 1 | Complies |

For 5GHz UNII-2A:

| Directional Gain (dBi) | Directional Gain (numeric) | Max. Output Power (dBm) | Max. Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|------------------------|----------------------------|-------------------------|------------------------|---|--|-------------|
| 3.01 | 1.9999 | 19.77 | 94.8418 | 0.03775 | 1 | Complies |

For 5GHz UNII-2C:

| Directional Gain (dBi) | Directional Gain (numeric) | Max. Output Power (dBm) | Max. Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|------------------------|----------------------------|-------------------------|------------------------|---|--|-------------|
| 3.01 | 1.9999 | 19.82 | 95.9401 | 0.03819 | 1 | Complies |

For 5GHz UNII-3:

| Directional Gain (dBi) | Directional Gain (numeric) | Max. Output Power (dBm) | Max. Output Power (mW) | Power Density (S) (mW/cm ²) | Limit of Power Density (S) (mW/cm ²) | Test Result |
|------------------------|----------------------------|-------------------------|------------------------|---|--|-------------|
| 3.01 | 1.9999 | 19.60 | 91.2011 | 0.03630 | 1 | Complies |

For the max simultaneous transmission MPE:

| Power Density (S) (mW/cm ²) | Power Density (S) (mW/cm ²) | Total | Limit of Power Density (S) (mW/cm ²) | Test Result |
|---|---|---------|--|-------------|
| 2.4GHz | 5GHz | | | |
| 0.07260 | 0.03819 | 0.11079 | 1 | Complies |

Note: The calculated distance is 20 cm.

Output power including tune up tolerance(tune up tolerance: 2 dBm).

End of Test Report