



# RADIO EXPOSURE TEST REPORT

**FCC ID** : UDX-600155010

**Equipment** : Catalyst Wireless 9162I Series Wi-Fi 6E Access Point

**Brand Name** : CISCO

**Model Name** : CW9162I-B, CW9162I-MR

**Applicant** : Cisco Systems, Inc.  
170 West Tasman Drive, San Jose, CA 95134 USA

**Manufacturer** : Cisco Systems, Inc.  
170 West Tasman Drive, San Jose, CA 95134 USA

**Standard** : 47 CFR Part 2.1091

The product was received on Mar. 03, 2022, and testing was started from Mar. 24, 2022 and completed on Sep. 07, 2023. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR Part 2.1091 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

Approved by: Sam Chen

**Sporton International Inc. Hsinchu Laboratory**

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### Photographs of EUT v01



## History of this test report

TEL : 886-3-656-9065  
FAX : 886-3-656-9085  
Report Template No.: CB-A1\_1 Ver1.1

Page Number : 3 of 14  
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## Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items          | Result (PASS/FAIL) | Remark |
|---------------|-----------------|---------------------|--------------------|--------|
| 2             | -               | Exposure evaluation | PASS               | -      |

**Conformity Assessment Condition:**

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".

**Disclaimer:**

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen

Report Producer: Sophia Shiung



# 1 General Description

## 1.1 EUT General Information

| RF General Information        |                                     |                                     |                                                                                                                                                                                                |
|-------------------------------|-------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Evaluation Mode               | Frequency Range (MHz)               | Operating Frequency (MHz)           | Modulation Type                                                                                                                                                                                |
| 2.4GHz WLAN                   | 2400-2483.5                         | 2412-2462                           | 802.11b: DSSS (DBPSK, DQPSK, CCK)<br>802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)<br>VHT: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)<br>802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) |
| 5GHz WLAN                     | 5150-5250<br>5725-5850<br>5725-5895 | 5180-5240<br>5745-5825<br>5835-5885 | 802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)<br>802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)<br>802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)                                 |
| 6GHz WLAN (LPI AP)            | 5925-7125                           | 5955-7115                           | 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)                                                                                                                                    |
| 6GHz WLAN (Standard Power AP) | 5925-6425<br>6525-6875              | 5955-6415<br>6535-6855              | 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)                                                                                                                                    |
| Bluetooth                     | 2400-2483.5                         | 2402-2480                           | LE: GFSK                                                                                                                                                                                       |



## 1.2 Antenna Information

| Ant. | Port                  |     |                     |     |                   |     |                                                        |              | Brand Name | Model Name   | Antenna Type | Connector | Gain (dBi) |
|------|-----------------------|-----|---------------------|-----|-------------------|-----|--------------------------------------------------------|--------------|------------|--------------|--------------|-----------|------------|
|      | WLAN 2.4GHz (Radio 1) |     | WLAN 5GHz (Radio 1) |     | WLAN 6E (Radio 2) |     | WLAN 2.4GHz / WLAN 5GHz / WLAN 6GHz (Scanning Radio 3) | BT (Radio 4) |            |              |              |           |            |
|      | 1TX                   | 2TX | 1TX                 | 2TX | 1TX               | 2TX |                                                        |              |            |              |              |           |            |
| 1    | 1                     | 2   | 1                   | 2   | -                 | -   | -                                                      | -            | WNC        | 95XEAJ15.G19 | PIFA         | I-PEX     | Note 1     |
| 2    | -                     | 1   | -                   | 1   | -                 | -   | -                                                      | -            | WNC        | 95XEAJ15.G20 | PIFA         | I-PEX     |            |
| 3    | -                     | -   | -                   | -   | 1                 | 2   | -                                                      | -            | WNC        | 95XEAJ15.G21 | Dipole       | I-PEX     |            |
| 4    | -                     | -   | -                   | -   | -                 | 1   | -                                                      | -            | WNC        | 95XEAJ15.G22 | Dipole       | I-PEX     |            |
| 5    | -                     | -   | -                   | -   | -                 | -   | -                                                      | 1            | WNC        | 95XEAJ15.G23 | PIFA         | I-PEX     |            |
| 6    | -                     | -   | -                   | -   | -                 | -   | 1                                                      | -            | WNC        | 95XEAJ15.G24 | PIFA         | I-PEX     |            |

Note 1:

| Ant. | Antenna Gain (dBi)              |                     |         |        |        |        |                     |        |        |               |                                      |                                    |                                 |        |        |      |      |                 |
|------|---------------------------------|---------------------|---------|--------|--------|--------|---------------------|--------|--------|---------------|--------------------------------------|------------------------------------|---------------------------------|--------|--------|------|------|-----------------|
|      | WLAN<br>2.4GHz<br><br>(Radio 1) | WLAN 5GHz (Radio 1) |         |        |        |        | WLAN 6GHz (Radio 2) |        |        |               | WLAN 2.4GHz<br>(Scanning<br>Radio 3) | WLAN 5GHz<br>(Scanning<br>Radio 3) | WLAN 6GHz<br>(Scanning Radio 3) |        |        |      |      | BT<br>(Radio 4) |
|      | UNII 1                          | UNII 2A             | UNII 2C | UNII 3 | UNII 4 | UNII 5 | UNII 6              | UNII 7 | UNII 8 | UNII 1~UNII 3 |                                      | UNII 5                             | UNII 6                          | UNII 7 | UNII 8 |      |      |                 |
| 1    | 2.74                            | 1.75                | 1.67    | 1.80   | 1.64   | 1.45   | -                   | -      | -      | -             | -                                    | -                                  | -                               | -      | -      | -    | -    |                 |
| 2    | 2.51                            | 2.13                | 2.37    | 1.82   | 1.50   | 2.06   | -                   | -      | -      | -             | -                                    | -                                  | -                               | -      | -      | -    | -    |                 |
| 3    | -                               | -                   | -       | -      | -      | -      | 4.38                | 3.62   | 3.78   | 4.08          | -                                    | -                                  | -                               | -      | -      | -    | -    |                 |
| 4    | -                               | -                   | -       | -      | -      | -      | 4.33                | 3.72   | 3.95   | 4.11          | -                                    | -                                  | -                               | -      | -      | -    | -    |                 |
| 5    | -                               | -                   | -       | -      | -      | -      | -                   | -      | -      | -             | -                                    | -                                  | -                               | -      | -      | -    | 3.85 |                 |
| 6    | -                               | -                   | -       | -      | -      | -      | -                   | -      | -      | -             | 3.80                                 | 5.54                               | 5.43                            | 5.23   | 5.50   | 5.40 | -    |                 |

| Ant. | Directional Gain (dBi) |      |                     |      |         |      |         |      |        |      |        |      |
|------|------------------------|------|---------------------|------|---------|------|---------|------|--------|------|--------|------|
|      | WLAN 2.4GHz (Radio 1)  |      | WLAN 5GHz (Radio 1) |      |         |      |         |      |        |      |        |      |
|      |                        |      | UNII 1              |      | UNII 2A |      | UNII 2C |      | UNII 3 |      | UNII 4 |      |
|      | 2T1S                   | 2T2S | 2T1S                | 2T2S | 2T1S    | 2T2S | 2T1S    | 2T2S | 2T1S   | 2T2S | 2T1S   | 2T2S |
| 1    | 5.12                   | 2.74 | 4.19                | 2.13 | 4.07    | 2.37 | 4.41    | 1.82 | 4.08   | 1.64 | 3.96   | 2.06 |
| 2    |                        |      |                     |      |         |      |         |      |        |      |        |      |



Note 2: Directional gain information of Radio 2 6GHz UNII 5 and UNII 7

| Type   | Maximum Output Power                                                                                                                                       | Power Spectral Density                                                                                                               |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Non-BF | Directional gain = Max.gain + array gain.<br>For power measurements on IEEE 802.11 devices<br>Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$ | $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ant}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ |
| BF     | $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ant}} g_{j,k} \right\}^2}{N_{ANT}} \right]$                       | $DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ant}} g_{j,k} \right\}^2}{N_{ANT}} \right]$ |

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[ \frac{\sum_{j=1}^{N_{ss}} \left\{ \sum_{k=1}^{N_{ant}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

$$NSS1(g1,1) = 10^{G1/20} ; NSS1(g1,2) = 10^{G2/20};$$

$$g_{j,k} = (NSS1(g1,1) + NSS1(g1,2))^2$$

$$DG = 10 \log[(NSS1(g1,1) + NSS1(g1,2))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$$

Where ;

$$6G \text{ UNII-5 } G1 = 4.38 \text{ dBi} ; G2 = 4.33 \text{ dBi} ; DG = 7.37 \text{ dBi}$$

$$6G \text{ UNII-7 } G1 = 3.78 \text{ dBi} ; G2 = 3.95 \text{ dBi} ; DG = 6.88 \text{ dBi}$$

Note 3: The EUT has six antennas.

Note 4: The above information (excepting antenna gain of Radio 1 2.4GHz and 5GHz UNII 1~UNII 4) was declared by manufacturer.

Note 5: Radio 1 2.4GHz, 5GHz UNII 1~UNII 4: Maximum Directional Gain following KDB662911 D03.

#### For Radio 1

##### For 2.4GHz:

##### For IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):

Only Port 1 can be use as transmitting antenna.

Port 1, Port 2 can be used as receiving antennas.

Port 1, Port 2 could receive simultaneously.

##### For IEEE 802.11b/g/n/VHT/ax mode (2TX/2RX):

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

Port 1, Port 2 can be used as receiving antennas.

Port 1, Port 2 could receive simultaneously.

##### For 5GHz UNII 1~4:

##### For IEEE 802.11a/n/ac/ax mode (1TX/2RX):

Only Port 1 can be use as transmitting antenna.

Port 1, Port 2 can be used as receiving antennas.

Port 1, Port 2 could receive simultaneously.

**For IEEE 802.11a/n/ac/ax mode (2TX/2RX):**

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

Port 1, Port 2 can be used as receiving antennas.

Port 1, Port 2 could receive simultaneously.

**For Radio 2****For 6GHz UNII 5~8:****For IEEE 802.11ax mode (1TX/2RX):**

Only Port 1 can be use as transmitting antenna.

Port 1, Port 2 can be used as receiving antennas.

Port 1, Port 2 could receive simultaneously.

**For IEEE 802.11ax mode (2TX/2RX):**

Port 1, Port 2 can be use as transmitting antenna.

Port 1, Port 2 could transmitting simultaneously.

Port 1, Port 2 can be used as receiving antennas.

Port 1, Port 2 could receive simultaneously.

**For Radio 4****Bluetooth (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

**For Scanning Radio 3****For 2.4GHz:****For IEEE 802.11b/g/n/VHT/ax mode (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

**For 5GHz UNII 1~3:****For IEEE 802.11a/n/ac/ax mode (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

**For 6GHz UNII 5~8:****For IEEE 802.11ax mode (1TX/1RX):**

Only Port 1 can be used as transmitting/receiving antenna.

### 1.3 Table for Multiple Listing

| Model Name | EUT No. | SW     |
|------------|---------|--------|
| CW9162I-B  | 1       | Cisco  |
| CW9162I-MR | 2       | Meraki |

Note 1: From the above models, model: CW9162I-B was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.



## 1.4 Table for Radio function

| Radio (R)           | WLAN 2.4GHz | 5GHz UNII 1~3 | 5GHz UNII 4 | 6GHz UNII 5~8 | Bluetooth |
|---------------------|-------------|---------------|-------------|---------------|-----------|
| R1                  | V           | V             | V           | -             | -         |
| R2                  | -           | -             | -           | V             | -         |
| R3 (Scanning radio) | V           | V             | -           | V             | -         |
| R4                  | -           | -             | -           | -             | V         |

Note: The above information was declared by manufacturer.

## 1.5 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FA230306-20.

Below is the table for the change of the product with respect to the original one.

| Modifications                                                                                     | Performance Checking |
|---------------------------------------------------------------------------------------------------|----------------------|
| 1. Adding Standard Power mode for the EUT<br>2. Updating calculated distance from 41 cm to 44 cm. | RF Exposure          |

## 1.6 Accessories

| Accessories |
|-------------|
| Bracket*1   |

## 1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 2.1091
  - ♦ KDB 447498 D04 Interim General RF Exposure Guidance v01
- The following reference test guidance is not within the scope of accreditation of TAF.
- ♦ 47 CFR Part 1.1307
  - ♦ 47 CFR Part 1.1310

## 1.8 Testing Location

| Testing Location Information                              |                                                                                    |
|-----------------------------------------------------------|------------------------------------------------------------------------------------|
| Test Lab. : Sporton International Inc. Hsinchu Laboratory |                                                                                    |
| Hsinchu                                                   | ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) |
| (TAF: 3787)                                               | TEL: 886-3-656-9065 FAX: 886-3-656-9085                                            |
|                                                           | Test site Designation No. TW3787 with FCC.                                         |
|                                                           | Conformity Assessment Body Identifier (CABID) TW3787 with ISED.                    |

Note: The tested sample for WLAN 6GHz (Standard power mode) function was received on Aug. 22, 2023.



## 2 Maximum Permissible Exposure

### 2.1 Limit of Maximum Permissible Exposure

(A) Limits for Occupational / Controlled Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|------------------------------------------|------------------------------------------------------------------|
| 0.3-3.0               | 614                               | 1.63                              | *(100)                                   | <6                                                               |
| 3.0-30                | 1842/f                            | 4.89/f                            | *(900/f <sup>2</sup> )                   | <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 Exposure

| Frequency Range (MHz) | Electric Field Strength (E) (V/m) | Magnetic Field Strength (H) (A/m) | Power Density (S) (mW/ cm <sup>2</sup> ) | Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes) |
|-----------------------|-----------------------------------|-----------------------------------|------------------------------------------|------------------------------------------------------------------|
| 0.3-1.34              | 614                               | 1.63                              | *(100)                                   | <30                                                              |
| 1.34-30               | 824/f                             | 2.19/f                            | *(180/f <sup>2</sup> )                   | <30                                                              |
| 30-300                | 27.5                              | 0.073                             | 0.2                                      | <30                                                              |
| 300-1500              | -                                 | -                                 | f/1500                                   | <30                                                              |
| 1500-100,000          | -                                 | -                                 | 1.0                                      | <30                                                              |

Note: f = frequency in MHz ; \*Plane-wave equivalent power density

### 2.2 MPE Calculation Method

The MPE was calculated at 44 cm to show compliance with the power density limit.

The following formula was used to calculate the Power Density:

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } Pd \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

**E** = Electric field (V/m)

**P** = RF output power (W)

**G** = EUT Antenna numeric gain (numeric)

**d** = Separation distance between radiator and human body (m)

The formula can be changed to

$$Pd = \frac{30 \times P \times G}{377 \times d^2}$$



## 2.3 MPE Exemption

Option (A): 1.1307(b)(3)(i)(A): Available maximum time-averaged power is < 1 mW

Option (B): 1.1307(b)(3)(i)(B): Device operates between 300 MHz and 6 GHz and the maximum time-averaged power or effective radiated power (ERP), whichever is greater, <= Pth.

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases}$$

Where

$$x = -\log_{10} \left( \frac{60}{ERP_{20 \text{ cm}} \sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases}$$

$d$  = the separation distance (cm);

Option (C): 1.1307(b)(3)(i)(C): ERP is below a threshold calculated based on the distance

$R$  between the person and the antenna / radiating structure, where  $R > \lambda / 2 \pi$ .

| Single RF Sources Subject to Routine Environmental Evaluation |                       |
|---------------------------------------------------------------|-----------------------|
| RF Source frequency (MHz)                                     | Threshold ERP (watts) |
| 0.3-1.34                                                      | $1,920 R^2$ .         |
| 1.34-30                                                       | $3,450 R^2/f^2$ .     |
| 30-300                                                        | $3.83 R^2$ .          |
| 300-1,500                                                     | $0.0128 R^2 f$ .      |
| 1,500-100,000                                                 | $19.2 R^2$ .          |
| Note: $R$ is in meters, $f$ is in MHz.                        |                       |



## 2.4 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

### For Radio 1

| Mode          | DG (dBi) | Power (dBm) | EIRP (dBm) | Tolerance (dB) | Tune-up EIRP (dBm) | Distance (cm) | S (mW/cm <sup>2</sup> ) | S Limit (mW/cm <sup>2</sup> ) | Option | TL EIRP (dBm) |
|---------------|----------|-------------|------------|----------------|--------------------|---------------|-------------------------|-------------------------------|--------|---------------|
| 2.4G;D1D-2TX  | 5.64     | 25.90       | 31.54      | 0.50           | 32.04              | 44            | 0.06575                 | 1.00000                       | C      | 37.851        |
| 5.2G;D1D-2TX  | 4.19     | 26.92       | 31.11      | 0.50           | 31.61              | 44            | 0.05955                 | 1.00000                       | C      | 37.851        |
| 5.8G;D1D-2TX  | 4.08     | 27.38       | 31.46      | 0.50           | 31.96              | 44            | 0.06455                 | 1.00000                       | C      | 37.851        |
| 5.81G;D1D-2TX | 3.96     | 26.66       | 30.62      | 0.50           | 31.12              | 44            | 0.05320                 | 1.00000                       | C      | 37.851        |
| 5.87G;D1D-2TX | 3.96     | 25.48       | 29.44      | 0.50           | 29.94              | 44            | 0.04054                 | 1.00000                       | C      | 37.851        |

### For Radio 2

| Mode                      | DG (dBi) | Power (dBm) | EIRP (dBm) | Tolerance (dB) | Tune-up EIRP (dBm) | Distance (cm) | S (mW/cm <sup>2</sup> ) | S Limit (mW/cm <sup>2</sup> ) | Option | TL EIRP (dBm) |
|---------------------------|----------|-------------|------------|----------------|--------------------|---------------|-------------------------|-------------------------------|--------|---------------|
| 6.2G;D1D-2TX (LPI)        | 4.38     | -           | 27.69      | 0.50           | 28.19              | 44            | 0.02709                 | 1.00000                       | C      | 37.851        |
| 6.4G;D1D-2TX (LPI)        | 3.62     | -           | 26.54      | 0.50           | 27.04              | 44            | 0.02079                 | 1.00000                       | C      | 37.851        |
| 6.7G;D1D-2TX (LPI)        | 3.78     | -           | 26.69      | 0.50           | 27.19              | 44            | 0.02152                 | 1.00000                       | C      | 37.851        |
| 7.0G;D1D-2TX (LPI)        | 4.08     | -           | 24.54      | 0.50           | 25.04              | 44            | 0.01312                 | 1.00000                       | C      | 37.851        |
| 6.2G;D1D (Standard Power) | 4.38     | -           | 30.73      | 0.50           | 31.23              | 44            | 0.05456                 | 1.00000                       | C      | 37.851        |
| 6.7G;D1D (Standard Power) | 3.95     | -           | 28.44      | 0.50           | 28.94              | 44            | 0.03220                 | 1.00000                       | C      | 37.851        |

### For Scanning Radio 3

| Mode                      | DG (dBi) | Power (dBm) | EIRP (dBm) | Tolerance (dB) | Tune-up EIRP (dBm) | Distance (cm) | S (mW/cm <sup>2</sup> ) | S Limit (mW/cm <sup>2</sup> ) | Option | TL EIRP (dBm) |
|---------------------------|----------|-------------|------------|----------------|--------------------|---------------|-------------------------|-------------------------------|--------|---------------|
| 2.4G;G1D                  | 3.80     | 22.38       | 26.18      | 0.50           | 26.68              | 44            | 0.01914                 | 1.00000                       | C      | 37.851        |
| 5.2G;D1D                  | 5.54     | 21.49       | 27.03      | 0.50           | 27.53              | 44            | 0.02327                 | 1.00000                       | C      | 37.851        |
| 5.8G;D1D                  | 5.54     | 24.95       | 30.49      | 0.50           | 30.99              | 44            | 0.05163                 | 1.00000                       | C      | 37.851        |
| 6.2G;D1D (LPI)            | 5.50     | 11.74       | 17.24      | 0.50           | 17.74              | 44            | 0.00244                 | 1.00000                       | C      | 37.851        |
| 6.4G;D1D (LPI)            | 5.50     | 12.07       | 17.57      | 0.50           | 18.07              | 44            | 0.00264                 | 1.00000                       | C      | 37.851        |
| 6.7G;D1D (LPI)            | 5.50     | 11.80       | 17.30      | 0.50           | 17.80              | 44            | 0.00248                 | 1.00000                       | C      | 37.851        |
| 7.0G;D1D (LPI)            | 5.50     | 12.23       | 17.73      | 0.50           | 18.23              | 44            | 0.00273                 | 1.00000                       | C      | 37.851        |
| 6.2G;D1D (Standard Power) | 5.43     | 25.46       | 30.89      | 0.50           | 31.39              | 44            | 0.05661                 | 1.00000                       | C      | 37.851        |
| 6.7G;D1D (Standard Power) | 5.50     | 23.41       | 28.91      | 0.50           | 29.41              | 44            | 0.03588                 | 1.00000                       | C      | 37.851        |

### For Radio 4

| Mode       | DG (dBi) | Power (dBm) | EIRP (dBm) | Tolerance (dB) | Tune-up EIRP (dBm) | Distance (cm) | S (mW/cm <sup>2</sup> ) | S Limit (mW/cm <sup>2</sup> ) | Option | TL EIRP (dBm) |
|------------|----------|-------------|------------|----------------|--------------------|---------------|-------------------------|-------------------------------|--------|---------------|
| 2.4G;BT-LE | 3.85     | 18.28       | 22.13      | 0.50           | 22.63              | 44            | 0.00753                 | 1.00000                       | C      | 37.851        |

**Simultaneous Transmission Analysis Mode:****Mode 1: R1: 2.4GHz+5GHz + R2: 6GHz (LPI mode) + R4: Bluetooth + Scanning R3: 2.4GHz**

| Mode           | DG<br>(dBi) | Power<br>(dBm) | EIRP<br>(dBm) | Tolerance<br>(dB) | Tune-up EIRP<br>(dBm) | Distance<br>(cm) | S<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) | Option | TL EIRP<br>(dBm) | TL Ratio |
|----------------|-------------|----------------|---------------|-------------------|-----------------------|------------------|----------------------------|--------------------------------|--------|------------------|----------|
| 2.4G;D1D       | 5.64        | 25.90          | 31.54         | 0.50              | 32.04                 | 44               | 0.06575                    | 1.00000                        | C      | 37.851           | 0.2624   |
| 5.8G;D1D       | 4.08        | 27.38          | 31.46         | 0.50              | 31.96                 | 44               | 0.06455                    | 1.00000                        | C      | 37.851           | 0.2576   |
| 6.2G;D1D       | 4.38        | -              | 27.69         | 0.50              | 28.19                 | 44               | 0.02709                    | 1.00000                        | C      | 37.851           | 0.1081   |
| 2.4G;BT-LE     | 3.85        | 18.28          | 22.13         | 0.50              | 22.63                 | 44               | 0.00753                    | 1.00000                        | C      | 37.851           | 0.0301   |
| 2.4G;G1D       | 3.80        | 22.38          | 26.18         | 0.50              | 26.68                 | 44               | 0.01914                    | 1.00000                        | C      | 37.851           | 0.0764   |
| Sum TL Ratio_C | 0.7346      |                |               |                   |                       |                  |                            |                                |        |                  |          |
| Ratio Limit    | 1           |                |               |                   |                       |                  |                            |                                |        |                  |          |

**Mode 2: R1: 2.4GHz+5GHz + R2: 6GHz (LPI mode) + R4: Bluetooth + Scanning R3: 5GHz**

| Mode           | DG<br>(dBi) | Power<br>(dBm) | EIRP<br>(dBm) | Tolerance<br>(dB) | Tune-up EIRP<br>(dBm) | Distance<br>(cm) | S<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) | Option | TL EIRP<br>(dBm) | TL Ratio |
|----------------|-------------|----------------|---------------|-------------------|-----------------------|------------------|----------------------------|--------------------------------|--------|------------------|----------|
| 2.4G;D1D       | 5.64        | 25.90          | 31.54         | 0.50              | 32.04                 | 44               | 0.06575                    | 1.00000                        | C      | 37.851           | 0.2624   |
| 5.8G;D1D       | 4.08        | 27.38          | 31.46         | 0.50              | 31.96                 | 44               | 0.06455                    | 1.00000                        | C      | 37.851           | 0.2576   |
| 6.2G;D1D       | 4.38        | -              | 27.69         | 0.50              | 28.19                 | 44               | 0.02709                    | 1.00000                        | C      | 37.851           | 0.1081   |
| 2.4G;BT-LE     | 3.85        | 18.28          | 22.13         | 0.50              | 22.63                 | 44               | 0.00753                    | 1.00000                        | C      | 37.851           | 0.0301   |
| 5.8G;D1D       | 5.54        | 24.95          | 30.49         | 0.50              | 30.99                 | 44               | 0.05163                    | 1.00000                        | C      | 37.851           | 0.2060   |
| Sum TL Ratio_C | 0.8642      |                |               |                   |                       |                  |                            |                                |        |                  |          |
| Ratio Limit    | 1           |                |               |                   |                       |                  |                            |                                |        |                  |          |

**Mode 3: R1: 2.4GHz+5GHz + R2: 6GHz (LPI mode) + R4: Bluetooth + Scanning R3: 6GHz (LPI mode)**

| Mode           | DG<br>(dBi) | Power<br>(dBm) | EIRP<br>(dBm) | Tolerance<br>(dB) | Tune-up EIRP<br>(dBm) | Distance<br>(cm) | S<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) | Option | TL EIRP<br>(dBm) | TL Ratio |
|----------------|-------------|----------------|---------------|-------------------|-----------------------|------------------|----------------------------|--------------------------------|--------|------------------|----------|
| 2.4G;D1D       | 5.64        | 25.90          | 31.54         | 0.50              | 32.04                 | 44               | 0.06575                    | 1.00000                        | C      | 37.851           | 0.2624   |
| 5.8G;D1D       | 4.08        | 27.38          | 31.46         | 0.50              | 31.96                 | 44               | 0.06455                    | 1.00000                        | C      | 37.851           | 0.2576   |
| 6.2G;D1D       | 4.38        | -              | 27.69         | 0.50              | 28.19                 | 44               | 0.02709                    | 1.00000                        | C      | 37.851           | 0.1081   |
| 2.4G;BT-LE     | 3.85        | 18.28          | 22.13         | 0.50              | 22.63                 | 44               | 0.00753                    | 1.00000                        | C      | 37.851           | 0.0301   |
| 7.0G;D1D       | 5.5         | 12.23          | 17.73         | 0.50              | 18.23                 | 44               | 0.00273                    | 1.00000                        | C      | 37.851           | 0.0109   |
| Sum TL Ratio_C | 0.6691      |                |               |                   |                       |                  |                            |                                |        |                  |          |
| Ratio Limit    | 1           |                |               |                   |                       |                  |                            |                                |        |                  |          |

**Mode 4: R1: 2.4GHz+5GHz + R2: 6GHz (Standard Power mode) + R4: Bluetooth + Scanning R3: 2.4GHz**

| Mode           | DG<br>(dBi) | Power<br>(dBm) | EIRP<br>(dBm) | Tolerance<br>(dB) | Tune-up EIRP<br>(dBm) | Distance<br>(cm) | S<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) | Option | TL EIRP<br>(dBm) | TL Ratio |
|----------------|-------------|----------------|---------------|-------------------|-----------------------|------------------|----------------------------|--------------------------------|--------|------------------|----------|
| 2.4G;D1D       | 5.64        | 25.90          | 31.54         | 0.50              | 32.04                 | 44               | 0.06575                    | 1.00000                        | C      | 37.851           | 0.2624   |
| 5.8G;D1D       | 4.08        | 27.38          | 31.46         | 0.50              | 31.96                 | 44               | 0.06455                    | 1.00000                        | C      | 37.851           | 0.2576   |
| 6.2G;D1D       | 4.38        | -              | 30.73         | 0.50              | 31.23                 | 44               | 0.05456                    | 1.00000                        | C      | 37.851           | 0.2177   |
| 2.4G;BT-LE     | 3.85        | 18.28          | 22.13         | 0.50              | 22.63                 | 44               | 0.00753                    | 1.00000                        | C      | 37.851           | 0.0301   |
| 2.4G;G1D       | 3.80        | 22.38          | 26.18         | 0.50              | 26.68                 | 44               | 0.01914                    | 1.00000                        | C      | 37.851           | 0.0764   |
| Sum TL Ratio_C | 0.8442      |                |               |                   |                       |                  |                            |                                |        |                  |          |
| Ratio Limit    | 1           |                |               |                   |                       |                  |                            |                                |        |                  |          |

**Mode 5: R1: 2.4GHz+5GHz + R2: 6GHz (Standard Power mode) + R4: Bluetooth + Scanning R3: 5GHz**

| Mode           | DG<br>(dBi) | Power<br>(dBm) | EIRP<br>(dBm) | Tolerance<br>(dB) | Tune-up EIRP<br>(dBm) | Distance<br>(cm) | S<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) | Option | TL EIRP<br>(dBm) | TL Ratio |
|----------------|-------------|----------------|---------------|-------------------|-----------------------|------------------|----------------------------|--------------------------------|--------|------------------|----------|
| 2.4G;D1D       | 5.64        | 25.90          | 31.54         | 0.50              | 32.04                 | 44               | 0.06575                    | 1.00000                        | C      | 37.851           | 0.2624   |
| 5.8G;D1D       | 4.08        | 27.38          | 31.46         | 0.50              | 31.96                 | 44               | 0.06455                    | 1.00000                        | C      | 37.851           | 0.2576   |
| 6.2G;D1D       | 4.38        | -              | 30.73         | 0.50              | 31.23                 | 44               | 0.05456                    | 1.00000                        | C      | 37.851           | 0.2177   |
| 2.4G;BT-LE     | 3.85        | 18.28          | 22.13         | 0.50              | 22.63                 | 44               | 0.00753                    | 1.00000                        | C      | 37.851           | 0.0301   |
| 5.8G;D1D       | 5.54        | 24.95          | 30.49         | 0.50              | 30.99                 | 44               | 0.05163                    | 1.00000                        | C      | 37.851           | 0.2060   |
| Sum TL Ratio_C | 0.9738      |                |               |                   |                       |                  |                            |                                |        |                  |          |
| Ratio Limit    | 1           |                |               |                   |                       |                  |                            |                                |        |                  |          |

**Mode 6: R1: 2.4GHz+5GHz + R2: 6GHz (Standard Power mode) + R4: Bluetooth + Scanning R3: 6GHz  
(Standard Power mode)**

| Mode           | DG<br>(dBi) | Power<br>(dBm) | EIRP<br>(dBm) | Tolerance<br>(dB) | Tune-up EIRP<br>(dBm) | Distance<br>(cm) | S<br>(mW/cm <sup>2</sup> ) | Limit<br>(mW/cm <sup>2</sup> ) | Option | TL EIRP<br>(dBm) | TL Ratio |
|----------------|-------------|----------------|---------------|-------------------|-----------------------|------------------|----------------------------|--------------------------------|--------|------------------|----------|
| 2.4G;D1D       | 5.64        | 25.90          | 31.54         | 0.50              | 32.04                 | 44               | 0.06575                    | 1.00000                        | C      | 37.851           | 0.2624   |
| 5.8G;D1D       | 4.08        | 27.38          | 31.46         | 0.50              | 31.96                 | 44               | 0.06455                    | 1.00000                        | C      | 37.851           | 0.2576   |
| 6.2G;D1D       | 4.38        | -              | 30.73         | 0.50              | 31.23                 | 44               | 0.05456                    | 1.00000                        | C      | 37.851           | 0.2177   |
| 2.4G;BT-LE     | 3.85        | 18.28          | 22.13         | 0.50              | 22.63                 | 44               | 0.00753                    | 1.00000                        | C      | 37.851           | 0.0301   |
| 6.2G;D1D       | 5.43        | 25.46          | 30.89         | 0.50              | 31.39                 | 44               | 0.05661                    | 1.00000                        | C      | 37.851           | 0.2259   |
| Sum TL Ratio_C | 0.9937      |                |               |                   |                       |                  |                            |                                |        |                  |          |
| Ratio Limit    | 1           |                |               |                   |                       |                  |                            |                                |        |                  |          |

————THE END————