

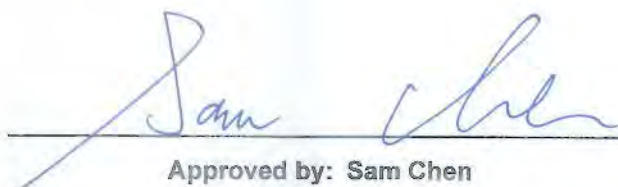


# RADIO EXPOSURE TEST REPORT

FCC ID : UDX-600104010  
Equipment : Wi-Fi 6E Access Point  
Brand Name : Cisco  
Model Name : MR57-HW  
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 Oct. 06, 2021, and testing was started from Oct. 16, 2021 and completed on Jan. 20, 2022. 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**  
No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



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## 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 11  
Issued Date : Mar. 10, 2022  
Report Version : 01



## Summary of Test Result

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

**Declaration of Conformity:**

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

**Comments and Explanations:**

1. The test configuration, test mode and test software were written in this test report are declared by the manufacturer.
2. The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

**Reviewed by: Sam Chen****Report Producer: Penny Kao**



# 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>5250-5350<br>5470-5725<br>5725-5850<br>5725-5895 | 5180-5240<br>5260-5320<br>5500-5720<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                   | 5925-7125                                                     | 5955-7115                                                     | 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)                                                                                                                                    |
| Bluetooth              | 2400-2483.5                                                   | 2402-2480                                                     | LE: GFSK                                                                                                                                                                                       |



## 1.2 Antenna Information

| Ant. | Port        |                    |                     |                    |           | Brand | P/N          | Ant. Type | Connector | Gain (dBi) |
|------|-------------|--------------------|---------------------|--------------------|-----------|-------|--------------|-----------|-----------|------------|
|      | WLAN 2.4GHz | WLAN 5GHz UNII 1~3 | WLAN 5GHz UNII 2C~4 | WLAN 6GHz UNII 5~8 | Bluetooth |       |              |           |           |            |
| 1    | 4           | 4                  | -                   | -                  | -         | CISCO | 95XKAN15.G42 | PIFA      | I-PEX     | Note1      |
| 2    | 3           | 3                  | -                   | -                  | -         | CISCO | 95XKAN15.G43 | PIFA      | I-PEX     |            |
| 3    | 2           | 2                  | -                   | -                  | -         | CISCO | 95XKAN15.G44 | PIFA      | I-PEX     |            |
| 4    | 1           | 1                  | -                   | -                  | -         | CISCO | 95XKAN15.G45 | PIFA      | I-PEX     |            |
| 5    | -           | -                  | 2                   | 2                  | -         | CISCO | 95XKAN15.G46 | Dipole    | I-PEX     |            |
| 6    | -           | -                  | 1                   | 1                  | -         | CISCO | 95XKAN15.G47 | Dipole    | I-PEX     |            |
| 7    | -           | -                  | 4                   | 4                  | -         | CISCO | 95XKAN15.G48 | Dipole    | I-PEX     |            |
| 8    | -           | -                  | 3                   | 3                  | -         | CISCO | 95XKAN15.G49 | Dipole    | I-PEX     |            |
| 9    | 1           | 1                  | -                   | -                  | -         | CISCO | 95XKAN15.G51 | PIFA      | I-PEX     |            |
| 10   | -           | -                  | -                   | -                  | 1         | CISCO | 95XKAN15.G50 | PIFA      | I-PEX     |            |

Note1:

| Ant. | Antenna Gain (dBi) |                  |                   |                   |                  |                  |                  |                  |                  |                  |            | Remark  |
|------|--------------------|------------------|-------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|------------|---------|
|      | WLAN 2.4GHz        | WLAN 5GHz UNII 1 | WLAN 5GHz UNII 2A | WLAN 5GHz UNII 2C | WLAN 5GHz UNII 3 | WLAN 5GHz UNII 4 | WLAN 6GHz UNII 5 | WLAN 6GHz UNII 6 | WLAN 6GHz UNII 7 | WLAN 6GHz UNII 8 | Blue tooth |         |
| 1    | 1.87               | 4.07             | 4.09              | 2.45              | 1.97             | -                | -                | -                | -                | -                | -          | Radio 1 |
| 2    | 2.68               | 3.7              | 4.21              | 3                 | 3.84             | -                | -                | -                | -                | -                | -          | Radio 1 |
| 3    | 2.7                | 3.29             | 3.51              | 2.33              | 3.03             | -                | -                | -                | -                | -                | -          | Radio 1 |
| 4    | 1.52               | 1.8              | 1.7               | 1.44              | 1.61             | -                | -                | -                | -                | -                | -          | Radio 1 |
| 5    | -                  | -                | -                 | 3.52              | 3.3              | 4.84             | 5.05             | 4.08             | 4.27             | 3.47             | -          | Radio 2 |
| 6    | -                  | -                | -                 | 3.54              | 4.33             | 4.28             | 4.71             | 3.72             | 3.49             | 4.02             | -          | Radio 2 |
| 7    | -                  | -                | -                 | 4.28              | 4.45             | 4.6              | 4.64             | 4.40             | 4.31             | 3.39             | -          | Radio 2 |
| 8    | -                  | -                | -                 | 4.13              | 4.39             | 4.75             | 4.76             | 3.51             | 4.21             | 4.03             | -          | Radio 2 |
| 9    | 3.80               | 6.29             | 6.29              | 6.29              | 6.29             | -                | -                | -                | -                | -                | -          | Radio 3 |
| 10   | -                  | -                | -                 | -                 | -                | -                | -                | -                | -                | -                | 3.65       | Radio 4 |

Note2:

| Directional Gain (dBi) |             |                  |                   |                   |                  |                  |  | Remark  |
|------------------------|-------------|------------------|-------------------|-------------------|------------------|------------------|--|---------|
| Item                   | WLAN 2.4GHz | WLAN 5GHz UNII 1 | WLAN 5GHz UNII 2A | WLAN 5GHz UNII 2C | WLAN 5GHz UNII 3 | WLAN 5GHz UNII 4 |  |         |
| 2T1S                   | 3.93        | 4.36             | 4.68              | 3.36              | 3.75             | -                |  | Radio 1 |
| 4T1S                   | 5.7         | 6.45             | 6.36              | 5.06              | 5.18             | -                |  |         |
| 2T1S                   | -           | -                | -                 | 5.32              | 6.01             | 5.57             |  | Radio 2 |
| 4T1S                   | -           | -                | -                 | 5.65              | 6.75             | 6.43             |  |         |

Note3: Radio 1 (WLAN 2.4/5GHz UNII 1~3), Radio 2 (5GHz UNII 2C, 3, 4): The directional gain is measured which follows the procedure of KDB 662911 D03. The antenna report is provided in the operational description for this application.



Note4: The above information was declared by manufacturer.

The EUT has ten antennas.

**For WLAN 2.4GHz function (Radio 1):**

**For IEEE 802.11b/g/n/VHT/ax mode (1TX, 2TX, 4TX/4RX):**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

**For WLAN 5GHz function (Radio 1 and Radio 2):**

**For IEEE 802.11a/n/ac/ax mode (1TX, 2TX, 4TX/4RX):**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

**For 6GHz function (Radio 2):**

**For IEEE 802.11ax mode (1TX, 2TX, 4TX/4RX):**

For 1TX

Only Port 1 can be use as transmitting antenna.

For 2TX

Only Port 1 and Port 2 can be use as transmitting antenna.

Port 1 and Port 2 could transmit simultaneously.

For 4TX

Port 1, Port 2, Port 3 and Port 4 can be use as transmitting antenna.

Port 1, Port 2, Port 3 and Port 4 could transmit simultaneously.

For 4RX

Port 1, Port 2, Port 3 and Port 4 can be used as receiving antennas.

Port 1, Port 2, Port 3 and Port 4 could receive simultaneously.

**For Scanning Radio 3:**

**For WLAN 2.4GHz function**

**For 802.11b/g/n/VHT/ax mode (1RX):**

Only Port 1 can be used as receiving functions.

**For WLAN 5GHz function**

**For IEEE 802.11a/n/ac/ax mode (1RX):**

Only Port 1 can be used as receiving functions.

**For Bluetooth function (Radio 4):**

**For Bluetooth mode (1TX/1RX):**

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

### 1.3 Table for Radio function

| Function<br>Radio     | WLAN<br>2.4GHz | WLAN<br>5GHz<br>UNII 1 | WLAN<br>5GHz<br>UNII 2A | WLAN<br>5GHz<br>UNII 2C | WLAN<br>5GHz<br>UNII 3 | WLAN<br>5GHz<br>UNII 4 | Bluetooth |
|-----------------------|----------------|------------------------|-------------------------|-------------------------|------------------------|------------------------|-----------|
| 1<br>(Iron Radio)     | V              | V                      | V                       | V                       | V                      | -                      | -         |
| 2<br>(Pine Radio)     | -              | -                      | -                       | V                       | V                      | V                      | -         |
| 3<br>(Scanning Radio) | V              | V                      | V                       | V                       | V                      | -                      | -         |
| 4                     | -              | -                      | -                       | -                       | -                      | -                      | V         |

Note: The above information was declared by manufacturer.

### 1.4 Table for EUT Operation Function

| Mode | Operation Function                                                   |
|------|----------------------------------------------------------------------|
| 1    | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 2.4GHz+R4: Bluetooth |
| 2    | R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R3: 5GHz+R4: Bluetooth   |
| 3    | R1: 2.4GHz/5GHz Full Band+R2: 6E+R3: 2.4GHz+R4: Bluetooth            |
| 4    | R1: 2.4GHz/5GHz Full Band+R2: 6E+R3: 5GHz+R4: Bluetooth              |

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: 181947-01

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

| Modifications                                                              | Performance Checking         |
|----------------------------------------------------------------------------|------------------------------|
| Adding UNII 2A and UNII 2C (5250~5350 MHz, 5470~5725 MHz) for this device. | Maximum Permissible Exposure |

Note: Maximum Permissible Exposure of 2.4GHz, 5GHz UNII 1/UNII 3/UNII4, 6GHz and Bluetooth are based on original test report

### 1.6 Accessories

Wall-mounted rack\*1

### 1.7 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 ISCED.                   |



## 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 27 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 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

### <Radio 1>

| Mode     | DG (dBi) | Power (dBm) | EIRP (dBm) | Tolerance (dB) | Tune-up EIRP (dBm) | Tune-up EIRP (W) | Distance (cm) | S (mW/cm <sup>2</sup> ) | S Limit (mW/cm <sup>2</sup> ) |
|----------|----------|-------------|------------|----------------|--------------------|------------------|---------------|-------------------------|-------------------------------|
| 2.4G;D1D | 5.70     | 25.78       | 31.48      | 0.50           | 31.98              | 1.57761          | 27            | 0.17221                 | 1.00000                       |
| 5.2G;D1D | 6.45     | 27.89       | 34.34      | 0.50           | 34.84              | 3.04789          | 27            | 0.33270                 | 1.00000                       |
| 5.3G;D1D | 6.36     | 23.47       | 29.83      | 0.16           | 29.99              | 0.99770          | 27            | 0.10891                 | 1.00000                       |
| 5.6G;D1D | 5.06     | 23.81       | 28.87      | 0.50           | 29.37              | 0.86497          | 27            | 0.09442                 | 1.00000                       |
| 5.8G;D1D | 5.18     | 27.54       | 32.72      | 0.50           | 33.22              | 2.09894          | 27            | 0.22911                 | 1.00000                       |

### <Radio 2>

| Mode      | DG (dBi) | Power (dBm) | EIRP (dBm) | Tolerance (dB) | Tune-up EIRP (dBm) | Tune-up EIRP (W) | Distance (cm) | S (mW/cm <sup>2</sup> ) | S Limit (mW/cm <sup>2</sup> ) |
|-----------|----------|-------------|------------|----------------|--------------------|------------------|---------------|-------------------------|-------------------------------|
| 5.6G;D1D  | 5.65     | 23.95       | 29.60      | 0.39           | 29.99              | 0.99770          | 27            | 0.10891                 | 1.00000                       |
| 5.8G;D1D  | 6.75     | 28.74       | 35.49      | 0.50           | 35.99              | 3.97192          | 27            | 0.43356                 | 1.00000                       |
| 5.81G;D1D | 6.43     | 28.46       | 34.89      | 0.50           | 35.39              | 3.45939          | 27            | 0.37762                 | 1.00000                       |
| 6.2G;D1D  | 10.81    | -           | 26.46      | 0.50           | 26.96              | 0.49659          | 27            | 0.05421                 | 1.00000                       |
| 6.4G;D1D  | 3.72     | -           | 25.73      | 0.50           | 26.23              | 0.41976          | 27            | 0.04582                 | 1.00000                       |
| 6.7G;D1D  | 10.10    | -           | 26.20      | 0.50           | 26.70              | 0.46774          | 27            | 0.05106                 | 1.00000                       |
| 7.0G;D1D  | 9.75     | -           | 24.63      | 0.50           | 25.13              | 0.32584          | 27            | 0.03557                 | 1.00000                       |

### <Radio 4>

| Mode       | DG (dBi) | Power (dBm) | EIRP (dBm) | Tolerance (dB) | Tune-up EIRP (dBm) | Tune-up EIRP (W) | Distance (cm) | S (mW/cm <sup>2</sup> ) | S Limit (mW/cm <sup>2</sup> ) |
|------------|----------|-------------|------------|----------------|--------------------|------------------|---------------|-------------------------|-------------------------------|
| 2.4G;BT-LE | 3.65     | 19.00       | 22.65      | 0.50           | 23.15              | 0.20654          | 27            | 0.02255                 | 1.00000                       |



Simultaneous Transmission Analysis Mode:

Mode 1: R1: 2.4GHz/5GHz Low Band+R2: 5GHz High band+R4: Bluetooth

| Mode       | DG (dBi) | Power (dBm) | EIRP (dBm) | Tolerance (dB) | Tune-up EIRP (dBm) | Tune-up EIRP (W) | Distance (cm) | S (mW/cm <sup>2</sup> ) | S Limit (mW/cm <sup>2</sup> ) | Ratio (S/Limit) |
|------------|----------|-------------|------------|----------------|--------------------|------------------|---------------|-------------------------|-------------------------------|-----------------|
| 2.4G;D1D   | 5.70     | 25.78       | 31.48      | 0.50           | 31.98              | 1.57761          | 27            | 0.17221                 | 1.00000                       | 0.17221         |
| 5.2G;D1D   | 6.45     | 27.89       | 34.34      | 0.50           | 34.84              | 3.04789          | 27            | 0.33270                 | 1.00000                       | 0.33270         |
| 5.8G;D1D   | 6.75     | 28.74       | 35.49      | 0.50           | 35.99              | 3.97192          | 27            | 0.43356                 | 1.00000                       | 0.43356         |
| 2.4G;BT-LE | 3.65     | 19.00       | 22.65      | 0.50           | 23.15              | 0.20654          | 27            | 0.02255                 | 1.00000                       | 0.02255         |
|            |          |             |            |                |                    |                  |               |                         | Sum Ratio                     | 0.96102         |
|            |          |             |            |                |                    |                  |               |                         | Ratio Limit                   | 1               |

Mode 2: R1: 2.4GHz/5GHz Full Band+R2: 6E+R4: Bluetooth

| Mode       | DG (dBi) | Power (dBm) | EIRP (dBm) | Tolerance (dB) | Tune-up EIRP (dBm) | Tune-up EIRP (W) | Distance (cm) | S (mW/cm <sup>2</sup> ) | S Limit (mW/cm <sup>2</sup> ) | Ratio (S/Limit) |
|------------|----------|-------------|------------|----------------|--------------------|------------------|---------------|-------------------------|-------------------------------|-----------------|
| 2.4G;D1D   | 5.70     | 25.78       | 31.48      | 0.50           | 31.98              | 1.57761          | 27            | 0.17221                 | 1.00000                       | 0.17221         |
| 5.2G;D1D   | 6.45     | 27.89       | 34.34      | 0.50           | 34.84              | 3.04789          | 27            | 0.33270                 | 1.00000                       | 0.33270         |
| 6.2G;D1D   | 10.81    | -           | 26.46      | 0.50           | 26.96              | 0.49659          | 27            | 0.05421                 | 1.00000                       | 0.05421         |
| 2.4G;BT-LE | 3.65     | 19.00       | 22.65      | 0.50           | 23.15              | 0.20654          | 27            | 0.02255                 | 1.00000                       | 0.02255         |
|            |          |             |            |                |                    |                  |               |                         | Sum Ratio                     | 0.58167         |
|            |          |             |            |                |                    |                  |               |                         | Ratio Limit                   | 1               |

Note: The above antenna gain was declared by manufacturer.

————THE END————