

Radio Exposure Evaluation Report

FCC ID : UDX-600218020
Equipment : Cisco Wireless 9174E Series Wi-Fi 7 Access Point
Brand Name : CISCO
Model Name : CW9174E
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 FCC Part 2 Subpart J, section 2.1091

The product was received on May 12, 2025, and testing was started from Jun. 09, 2025 and completed on Jun. 18, 2025. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 47 CFR FCC Part 2 Subpart J, section 2.1091 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. Hsinhua Laboratory, the test report shall not be reproduced except in full.


Approved by: Jackson Tsai

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Photographs of EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FA550854	01	Initial issue of report	Nov. 14, 2025



Summary of Test Result

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

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

None

Reviewed by: Daniel Hsu

Report Producer: Amber Chiu

1 General Description

1.1 Information

1.1.1 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) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) VHT: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5240 5260-5320 5500-5720 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
6GHz WLAN	5925-6425 6525-6875	5955-6415 6535-6855	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)
802.15.4	2400-2483.5	2405-2480	DSSS (O-QPSK)

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	Cisco	C-ANT9101=	Omnidirectional	Octal DART	2.4G+5G+6G+Scan+BLE&IEEE 802.15.4	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio3_6G 4*4 Radio4_Scan 1T*1R BLE&IEEE 802.15.4 1T*1R
2	Cisco	C-ANT9102=	Omnidirectional	Octal DART	2.4G+5G+6G+Scan+BLE&IEEE 802.15.4	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio3_6G 4*4 Radio4_Scan 1T*1R BLE&IEEE 802.15.4 1T*1R
3	Cisco	C-ANT9103=	Directional Patch	Right angle octal DART	2.4G+5G+6G+Scan+BLE&IEEE 802.15.4	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio3_6G 4*4 Radio4_Scan 1T*1R BLE&IEEE 802.15.4 1T*1R
4	Cisco	CW-ANT-T-O2-D8	Omnidirectional	Octal DART	2.4G+5G+6G+BLE&IEEE 802.15.5	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio3_6G 4*4 Radio4_Scan 1T*1R BLE&IEEE 802.15.4 1T*1R
5	Cisco	CW-ANT-T-D2-D8	Directional Panel	Right angle octal DART	2.4G+5G+6G+BLE&IEEE 802.15.6	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio3_6G 4*4 Radio4_Scan 1T*1R BLE&IEEE 802.15.4 1T*1R
6	Cisco	MA-ANT-3-C6	Panel Omni	RP-TNC	2.4G+5G+Scan+BLE&IEEE 802.15.4	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio4_Scan 1T*1R BLE&IEEE 802.15.4 1T*1R
7	Cisco	MA-ANT-3-D6	Downtilt Panel Omni	RP-TNC	2.4G+5G+Scan+BLE&IEEE 802.15.4	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio4_Scan 1T*2R BLE&IEEE 802.15.4 1T*1R
8	Cisco	MA-ANT-3-E6	Wide Patch	RP-TNC	2.4G+5G+Scan+BLE&IEEE 802.15.4	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio4_Scan 1T*1R BLE&IEEE 802.15.4 1T*1R



Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
9	Cisco	MA-ANT-3-F6	Narrow Patch	RP-TNC	2.4G+5G+Scan+ BLE&IEEE 802.15.4	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio4_Scan 1T*1R BLE&IEEE 802.15.4 1T*1R
10	Cisco	AIR-ANT2524 V4C-R/RS=	Ceiling Mount Omni-Directional	RP-TNC	2.4G+5G	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio4_Scan 1T*1R
11	Cisco	AIR-ANT2544 V4M-R/RS	Wall-Mounted Omnidirectional	RP-TNC	2.4G+5G	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio4_Scan 1T*1R
12	Cisco	AIR-ANT2566 P4W-R/RS	4-Element Patch	RP-TNC	2.4G+5G	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio4_Scan 1T*1R
13	Cisco	AIR-ANT2566 D4M-R/RS	Directional Array	RP-TNC	2.4G+5G	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio4_Scan 1T*1R
14	Cisco	AIR-ANT2513 P4M-N	Patch Array	N-Female Bulkhead	2.4G+5G	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio4_Scan 1T*1R
15	Cisco	AIR-ANT2513 P4M-NS	Patch Array	N-Female Bulkhead	2.4G+5G	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio4_Scan 1T*1R
16	Cisco	CW-ANT-T-O4 -R	Omnidirectional	Reverse Polarity TNC	2.4G+5G+6G	Radio1_2.4G 2*2 Radio3_2.4G 4*4 Radio2_5G 4*4 Radio3_6G 4*4

Ant.	Gain (dBi)									
	2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BLE& IEEE 802.15.4
1	2	6	6	6	6	6	6	6	6	3
2	4	4	4	4	4	4	4	4	4	4
3	6	6	6	6	6	6	6	6	6	6
4	3.25	5.63	5.63	5.63	5.63	5.63	5.63	5.63	5.63	3.25
5	6.6	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	6.6
6	4.9	4.9	4.9	4.9	4.9	-	-	-	-	4.9
7	2.9	3.7	3.7	3.7	3.7	-	-	-	-	2.9
8	7	6.3	6.3	6.3	6.3	-	-	-	-	7

Ant.	Gain (dBi)									BLE& IEEE 802.15.4
	2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	
9	11.2	10.8	10.8	10.8	10.8	-	-	-	-	11.2
10	2	4	4	4	4	-	-	-	-	-
11	4	4	4	4	4	-	-	-	-	-
12	6	6	6	6	6	-	-	-	-	-
13	6	6	6	6	6	-	-	-	-	-
14	13	13	13	13	13	-	-	-	-	-
15	13	13	13	13	13	-	-	-	-	-
16	1	2	2	2	2	4	4	4	4	-

Note 1: The EUT has sixteen antennas.

Note 2: Ant. 1 and Ant. 14 (for 2.4G), Ant. 7 and Ant. 14 (for 5G), Ant.2 and Ant.3 (for 6G), Ant.7 and Ant.9 (for IoT), which designated by the manufacturer, was used during the test.

For 2.4GHz function:

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

Ant. 1~Ant.16 could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was port 1 and it was recorded in this test report.

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

Ant. 1~Ant.16 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (1TX/4RX) (Radio 3)

Ant. 1~Ant.16 could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was port 2 and it was recorded in this test report.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/4RX) (Radio 3)

Ant. 1~Ant.16 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax/be mode (4TX/4RX) (Radio 3)

Ant. 1~Ant.16 could transmit/receive simultaneously.

For IEEE 802.11 b/g/n/VHT/ax mode(1TX/1RX) (Scan Radio)

Ant. 1~Ant.15 could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax/be mode (1TX/4RX) (Radio 2)

Ant. 1~Ant.16 could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was port 3 and it was recorded in this test report.

For IEEE 802.11 a/n/ac/ax/be mode (2TX/4RX) (Radio 2)

Ant. 1~Ant.16 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax/be mode (4TX/4RX) (Radio 2)

Ant. 1~Ant.16 could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax mode (1TX/1RX) (Scan Radio)

Ant. 1~Ant.15 could transmit/receive.

For 6GHz function:

For IEEE 802.11 ax/be mode (1TX/4RX) (Radio 3)

Ant. 1~Ant. 5 could transmit/receive.

Support diversity function and pre-tested on each single chain, the worst case was port 3 and it was recorded in this test report.

For IEEE 802.11 ax/be mode (2TX/4RX) (Radio 3)

Ant. 1~Ant.16 could transmit/receive simultaneously.

For IEEE 802.11 ax/be mode (4TX/4RX) (Radio 3)

Ant. 1~Ant.16 could transmit/receive simultaneously.

For IEEE 802.11 ax mode (1TX/1RX) (Scan Radio)

Ant. 1~Ant.15 could transmit/receive simultaneously.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Ant. 1~Ant. 9 could transmit/receive.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 1~Ant. 9 could transmit/receive.

Note 2: Directional gain information

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

1.1.3 Table of Serial Number

Test item	Serial Number
RF	FVH2911ASZD

1.1.4 Accessories

Accessories				
Low Profile Mounting Bracket	Brand Name	Cisco	Model Name	AIR-AP-BRACKET-1
Ceiling grid clip	Brand Name	Cisco	Model Name	AIR-AP-T-RAIL-R

Reminder: Regarding to more detail and other information, please refer to user manual.

1.2 Applicable Standards

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

- ♦ 47 CFR FCC Part 2 Subpart J, section 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

1.3 Testing Location

Test Lab. : Sporton International Inc. Hsinhua Laboratory			
☒	Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)	
		TEL: 886-3-327-3456	FAX: 886-3-327-0973
Test site Designation No. TW3785 with FCC.			
☐	Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)	
		TEL: 886-3-318-0787	FAX: 886-3-318-0287
Test site Designation No. TW0008 with FCC.			

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 ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f ²)*	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 ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f ²)*	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

Multiple Transmitters Condition

Co-location as simultaneously transmitting (co-transmitting) and the evaluation shall be consider that simultaneous transmissions from co-located devices the individual transmitters are evaluated separately. After sum of the individual value (basic restriction / reference level) are measured/calculated also have to under basic restriction / reference level.

Co-transmitting mode:

- 1 R1_2.4G(2*2)(ePA)+R2_5G(4*4)+R3_6G(4*4)+R4_Scan:2.4G+5G+6G(1T*2R)+BT
- 2 R2_5G(4*4)+R3_2.4G(4*4)(XOR)+R4_Scan:2.4G+5G+6G(1T*2R)+BT
- 3 R1_2.4G(2*2)(ePA)+R2_5G(4*4)+R3_6G(4*4)+R4_Scan:2.4G+5G+6G(1T*2R)+ IEEE 802.15.4
- 4 R2_5G(4*4)+R3_2.4G(4*4)(XOR)+R4_Scan:2.4G+5G+6G(1T*2R)+IEEE 802.15.4

2.2 RF Exposure Exempt Measurement

Option	Refer Std.	Exemption Exposure Thresholds (TL)
A	§1.1307(b)(3)(i)(A)	Available maximum time-averaged power is no more than 1 mW
B	§1.1307(b)(3)(i)(B)	$P_{th}(mW) = \begin{cases} ERP_{20cm} (d / 20cm)^x \rightarrow d \leq 20cm \\ ERP_{20cm} \rightarrow 20cm < d \leq 40cm \end{cases}$ $x = -\log_{10} \left(\frac{60}{ERP_{20cm} \sqrt{f}} \right) \text{ and } f \text{ is in GHz}$ $\begin{cases} ERP_{20cm} : 0.3GHz \leq f < 1.5GHz \rightarrow 2040 f(mW) \\ ERP_{20cm} : 1.5GHz \leq f \leq 6GHz \rightarrow 3060(mW) \end{cases}$
C	§1.1307(b)(3)(i)(C)	$\begin{cases} 0.3 \sim 1.34MHz \rightarrow ERP(W) = 1920 R^2 \\ 1.34 \sim 30MHz \rightarrow ERP(W) = 3450 R^2 / f^2 \\ 30 \sim 300MHz \rightarrow ERP(W) = 3.83R^2 \\ 300 \sim 1500MHz \rightarrow ERP(W) = 0.0128 R^2 f \\ 1500 \sim 100000MHz \rightarrow ERP(W) = 19.2R^2 \end{cases}$ $f \text{ is in MHz; } R \text{ is in m; } R > \lambda / 2\pi$

2.3 Multiple RF Sources Exposure

Refer Std.	Exemption Exposure Thresholds (TL)
§1.1307(b)(3)(ii)(A)	The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required)
§1.1307(b)(3)(ii)(B)	$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{ExposureLimit_k} \leq 1$ a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(B) of this section for P , including existing exempt transmitters and those being added. b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added. c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters. P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive). P_{th,i} = the exemption threshold power (P_{th}) according to paragraph §1.1307(b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i. ERP_j = the ERP of fixed, mobile, or portable RF source j. ERP_{th,j} = exemption threshold ERP for fixed, mobile, or portable RF source j, at a distance of at least λ/2π according to the applicable formula of paragraph §1.1307(b)(3)(i)(C) of this section. Evaluated_k = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure. Evaluated Limit_k = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k, as applicable from § 1.1310 of this chapter.



2.4 MPE Calculation Method

The MPE was calculated at 66 cm to show compliance with the power density limit.
The following formula was used to calculate the Power Density:

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

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

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



2.5 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

2.4GHz WLAN_Non-Beamforming_Radio 1_Omnidirectional_1T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	2.00	19.41	19.26	0.50	94.624	66	C	8363.6	0.0113
2.4G;D1D	2.00	19.02	18.87	0.50	86.497	66	C	8363.6	0.0103

2.4GHz WLAN_Non-Beamforming_Radio 1_Omnidirectional_2T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	2.00	22.36	22.21	0.50	186.638	66	C	8363.6	0.0223
2.4G;D1D	2.00	22.32	22.17	0.50	184.927	66	C	8363.6	0.0221

2.4GHz WLAN_Non-Beamforming_Radio 1_Patch Array_1T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	13.00	19.41	30.26	0.50	1191.242	66	C	8363.6	0.1425
2.4G;D1D	13.00	19.08	29.93	0.50	1104.079	66	C	8363.6	0.1321

2.4GHz WLAN_Non-Beamforming_Radio 1_Patch Array_2T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	13.00	22.36	33.21	0.50	2349.633	66	C	8363.6	0.2810
2.4G;D1D	13.00	22.04	32.89	0.50	2182.730	66	C	8363.6	0.2611

2.4GHz WLAN_Non-Beamforming_Radio 3_Omnidirectional_1T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	2.00	19.82	19.67	0.50	103.992	66	C	8363.6	0.0124
2.4G;D1D	2.00	19.42	19.27	0.50	94.842	66	C	8363.6	0.0113

2.4GHz WLAN_Non-Beamforming_Radio 3_Omnidirectional_2T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	2.00	22.73	22.58	0.50	203.236	66	C	8363.6	0.0243
2.4G;D1D	2.00	22.35	22.20	0.50	186.209	66	C	8363.6	0.0223

2.4GHz WLAN_Non-Beamforming_Radio 3_Omnidirectional_4T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	2.00	25.56	25.41	0.50	389.942	66	C	8363.6	0.0466
2.4G;D1D	2.00	25.21	25.06	0.50	359.749	66	C	8363.6	0.0430

**2.4GHz WLAN_Non-Beamforming_Radio 3_Patch Array_1T1S**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	13.00	19.82	30.67	0.50	1309.182	66	C	8363.6	0.1566
2.4G;D1D	13.00	19.42	30.27	0.50	1193.988	66	C	8363.6	0.1428

2.4GHz WLAN_Non-Beamforming_Radio 3_Patch Array_2T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	13.00	21.74	32.59	0.50	2037.042	66	C	8363.6	0.2437
2.4G;D1D	13.00	20.59	31.44	0.50	1563.148	66	C	8363.6	0.1870

2.4GHz WLAN_Non-Beamforming_Radio 3_Patch Array_4T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	13.00	17.89	28.74	0.50	839.460	66	C	8363.6	0.1004
2.4G;D1D	13.00	16.64	27.49	0.50	629.506	66	C	8363.6	0.0753

2.4GHz WLAN_Non-Beamforming_Scan Radio_Omnidirectional

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	2.00	15.37	15.22	0.50	37.325	66	C	8363.6	0.0045
2.4G;D1D	2.00	15.21	15.06	0.50	35.975	66	C	8363.6	0.0043

2.4GHz WLAN_Non-Beamforming_Scan Radio_Patch Array

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	13.00	15.37	26.22	0.50	469.894	66	C	8363.6	0.0562
2.4G;D1D	13.00	14.92	25.77	0.50	423.643	66	C	8363.6	0.0507

**5GHz WLAN_Non-Beamforming_Radio 2_Downtilt Panel Omni_1T1S_Full RU**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	3.70	18.50	20.05	0.50	113.501	66	C	8363.6	0.0136
5.3G;D1D	3.70	18.38	19.93	0.50	110.408	66	C	8363.6	0.0132
5.6G;D1D	3.70	18.52	20.07	0.50	114.025	66	C	8363.6	0.0136
5.8G;D1D	3.70	18.55	20.10	0.50	114.815	66	C	8363.6	0.0137

5GHz WLAN_Non-Beamforming_Radio 2_Downtilt Panel Omni_2T1S_Full RU

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	3.70	20.93	22.48	0.50	198.609	66	C	8363.6	0.0238
5.3G;D1D	3.70	20.96	22.51	0.50	199.986	66	C	8363.6	0.0239
5.6G;D1D	3.70	21.13	22.68	0.50	207.970	66	C	8363.6	0.0249
5.8G;D1D	3.70	21.35	22.90	0.50	218.776	66	C	8363.6	0.0262

5GHz WLAN_Non-Beamforming_Radio 2_Downtilt Panel Omni_4T1S_Full RU

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	3.70	23.86	25.41	0.50	389.942	66	C	8363.6	0.0466
5.3G;D1D	3.70	22.43	23.98	0.50	280.543	66	C	8363.6	0.0336
5.6G;D1D	3.70	23.17	24.72	0.50	332.660	66	C	8363.6	0.0398
5.8G;D1D	3.70	24.26	25.81	0.50	427.563	66	C	8363.6	0.0511

5GHz WLAN_Non-Beamforming_Radio 2_Patch Array_1T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	13.00	18.21	29.06	0.50	903.649	66	C	8363.6	0.1081
5.3G;D1D	13.00	16.42	27.27	0.50	598.412	66	C	8363.6	0.0716
5.6G;D1D	13.00	16.45	27.30	0.50	602.560	66	C	8363.6	0.0721
5.8G;D1D	13.00	18.55	29.40	0.50	977.237	66	C	8363.6	0.1169

5GHz WLAN_Non-Beamforming_Radio 2_Patch Array_2T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	13.00	20.95	31.80	0.50	1698.244	66	C	8363.6	0.2031
5.3G;D1D	13.00	15.94	26.79	0.50	535.797	66	C	8363.6	0.0641
5.6G;D1D	13.00	16.40	27.25	0.50	595.662	66	C	8363.6	0.0712
5.8G;D1D	13.00	21.35	32.20	0.50	1862.087	66	C	8363.6	0.2227

5GHz WLAN_Non-Beamforming_Radio 2_Patch Array_4T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	13.00	16.75	27.60	0.50	645.654	66	C	8363.6	0.0772
5.3G;D1D	13.00	15.28	26.13	0.50	460.257	66	C	8363.6	0.0551
5.6G;D1D	13.00	15.39	26.24	0.50	472.063	66	C	8363.6	0.0565
5.8G;D1D	13.00	22.47	33.32	0.50	2409.905	66	C	8363.6	0.2882

**5GHz WLAN_Non-Beamforming_Scan Radio_Downtilt Panel Omni**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	3.70	14.59	16.14	0.50	46.132	66	C	8363.6	0.0055
5.3G;D1D	3.70	14.32	15.87	0.50	43.351	66	C	8363.6	0.0052
5.6G;D1D	3.70	14.61	16.16	0.50	46.345	66	C	8363.6	0.0055
5.8G;D1D	3.70	15.11	16.66	0.50	52.000	66	C	8363.6	0.0062

5GHz WLAN_Non-Beamforming_Scan Radio_Patch Array

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	13.00	14.59	25.44	0.50	392.645	66	C	8363.6	0.0470
5.3G;D1D	13.00	14.32	25.17	0.50	368.978	66	C	8363.6	0.0441
5.6G;D1D	13.00	14.03	24.88	0.50	345.144	66	C	8363.6	0.0413
5.8G;D1D	13.00	15.11	25.96	0.50	442.588	66	C	8363.6	0.0529

6GHz WLAN_Non-Beamforming_Radio 3_Directional Patch_1T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	6.00	19.97	23.82	0.50	270.396	66	C	8363.6	0.0323
6.7G;D1D	6.00	19.70	23.55	0.50	254.097	66	C	8363.6	0.0304

6GHz WLAN_Non-Beamforming_Radio 3_Directional Patch_2T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	6.00	23.09	26.94	0.50	554.626	66	C	8363.6	0.0663
6.7G;D1D	6.00	22.47	26.32	0.50	480.839	66	C	8363.6	0.0575

6GHz WLAN_Non-Beamforming_Radio 3_Directional Patch_4T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	6.00	26.01	29.86	0.50	1086.426	66	C	8363.6	0.1299
6.7G;D1D	6.00	25.70	29.55	0.50	1011.579	66	C	8363.6	0.1210

6GHz WLAN_Non-Beamforming_Radio 3_Omnidirectional_1T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	4.00	19.97	21.82	0.50	170.608	66	C	8363.6	0.0204
6.7G;D1D	4.00	19.70	21.55	0.50	160.325	66	C	8363.6	0.0192

6GHz WLAN_Non-Beamforming_Radio 3_Omnidirectional_2T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	4.00	23.09	24.94	0.50	349.945	66	C	8363.6	0.0419
6.7G;D1D	4.00	22.47	24.32	0.50	303.389	66	C	8363.6	0.0363

6GHz WLAN_Non-Beamforming_Radio 3_Omnidirectional_4T1S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	4.00	26.01	27.86	0.50	685.488	66	C	8363.6	0.0820
6.7G;D1D	4.00	25.70	27.55	0.50	638.263	66	C	8363.6	0.0763

**6GHz WLAN_Non-Beamforming_Scan Radio_Directional Patch**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	4.00	12.65	14.50	0.50	31.623	66	C	8363.6	0.0038
6.7G;D1D	4.00	12.80	14.65	0.50	32.734	66	C	8363.6	0.0039

6GHz WLAN_Non-Beamforming_Scan Radio_Omnidirectional

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	6.00	12.65	16.50	0.50	50.119	66	C	8363.6	0.0060
6.7G;D1D	6.00	12.80	16.65	0.50	51.880	66	C	8363.6	0.0062

Bluetooth_Non-Beamforming_Downtilt Panel Omni

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;BT-LE	2.90	12.48	13.23	0.50	23.605	66	C	8363.6	0.0028

Bluetooth_Non-Beamforming_Narrow Patch

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;BT-LE	11.20	12.37	21.42	0.50	155.597	66	C	8363.6	0.0186

802.15.4_Non-Beamforming_Downtilt Panel Omni

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;	2.90	12.29	13.04	0.50	22.594	66	C	8363.6	0.0027

802.15.4_Non-Beamforming_Narrow Patch

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;	11.20	12.29	21.34	0.50	152.757	66	C	8363.6	0.0183

**Beamforming****2.4GHz WLAN_Beamforming_Radio 1_Omnidirectional**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	5.01	22.32	25.18	0.50	369.828	66	C	8363.6	0.0442

2.4GHz WLAN_Beamforming_Radio 1_Patch Array

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	16.01	19.29	33.15	0.50	2317.395	66	C	8363.6	0.2772

2.4GHz WLAN_Beamforming_Radio 3_Omnidirectional

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	8.02	25.21	31.08	0.50	1438.799	66	C	8363.6	0.1721

2.4GHz WLAN_Beamforming_Radio 3_Patch Array

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	19.02	15.67	32.54	0.50	2013.724	66	C	8363.6	0.2409

5GHz WLAN_Beamforming_Radio 2_Downtilt Panel Omni

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	9.72	23.86	31.43	0.50	1559.553	66	C	8363.6	0.1865
5.3G;D1D	9.72	19.62	27.19	0.50	587.489	66	C	8363.6	0.0703
5.6G;D1D	9.72	19.75	27.32	0.50	605.341	66	C	8363.6	0.0724
5.8G;D1D	9.72	24.26	31.83	0.50	1710.015	66	C	8363.6	0.2045

5GHz WLAN_Beamforming_Radio 2_Patch Array

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	19.02	16.11	32.98	0.50	2228.435	66	C	8363.6	0.2665
5.3G;D1D	19.02	10.39	27.26	0.50	597.035	66	C	8363.6	0.0714
5.6G;D1D	19.02	10.45	27.32	0.50	605.341	66	C	8363.6	0.0724
5.8G;D1D	19.02	16.40	33.27	0.50	2382.319	66	C	8363.6	0.2849

6GHz WLAN_Beamforming_Radio 3_Directional Patch

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	12.02	23.44	33.31	0.50	2404.363	66	C	8363.6	0.2876
6.7G;D1D	12.02	23.45	33.32	0.50	2409.905	66	C	8363.6	0.2882

6GHz WLAN_Beamforming_Radio 3_Omnidirectional

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	10.02	25.38	33.25	0.50	2371.374	66	C	8363.6	0.2836
6.7G;D1D	10.02	25.47	33.34	0.50	2421.029	66	C	8363.6	0.2896

Note 1: Option A, B and C refer as clause 2.2

Note 2: For option B, Pth(mW) convert to TL ERP(mW); For option C, ERP(W) convert to TL ERP(mW)

Note 3: TL Ratio=Tune-up ERP(mW)/TL ERP(mW)

**Simultaneous Transmission Analysis Mode:****R1_2.4G(2*2)(ePA)+R2_5G(4*4)+R3_6G(4*4)+R4_Scan:2.4G+5G+6G(1T*2R)+BT**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	13.00	22.36	33.21	0.50	2349.633	66	C	8363.6	0.2810
5.8G;D1D	13.00	22.47	33.32	0.50	2409.905	66	C	8363.6	0.2882
6.7G;D1D	10.02	25.47	33.34	0.50	2421.029	66	C	8363.6	0.2896
2.4G;G1D	13.00	15.37	26.22	0.50	469.894	66	C	8363.6	0.0562
5.8G;D1D	13.00	15.11	25.96	0.50	442.588	66	C	8363.6	0.0529
6.7G;D1D	6.00	12.80	16.65	0.50	51.880	66	C	8363.6	0.0062
2.4G;BT-LE	11.20	12.37	21.42	0.50	155.597	66	C	8363.6	0.0186
Sum TL Ratio_C	0.9927								
Ratio Limit	1								

R2_5G(4*4)+R3_2.4G(4*4)(XOR)+R4_Scan:2.4G+5G+6G(1T*2R)+BT

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.8G;D1D	13.00	22.47	33.32	0.50	2409.905	66	C	8363.6	0.2882
2.4G;G1D	13.00	21.74	32.59	0.50	2037.042	66	C	8363.6	0.2437
2.4G;G1D	13.00	15.37	26.22	0.50	469.894	66	C	8363.6	0.0562
5.8G;D1D	13.00	15.11	25.96	0.50	442.588	66	C	8363.6	0.0529
6.7G;D1D	6.00	12.80	16.65	0.50	51.880	66	C	8363.6	0.0062
2.4G;BT-LE	11.20	12.37	21.42	0.50	155.597	66	C	8363.6	0.0186
Sum TL Ratio_C	0.6658								
Ratio Limit	1								

R1_2.4G(2*2)(ePA)+R2_5G(4*4)+R3_6G(4*4)+R4_Scan:2.4G+5G+6G(1T*2R)+ IEEE 802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	13.00	22.36	33.21	0.50	2349.633	66	C	8363.6	0.2810
5.8G;D1D	13.00	22.47	33.32	0.50	2409.905	66	C	8363.6	0.2882
6.7G;D1D	10.02	25.47	33.34	0.50	2421.029	66	C	8363.6	0.2896
2.4G;G1D	13.00	15.37	26.22	0.50	469.894	66	C	8363.6	0.0562
5.8G;D1D	13.00	15.11	25.96	0.50	442.588	66	C	8363.6	0.0529
6.7G;D1D	6.00	12.80	16.65	0.50	51.880	66	C	8363.6	0.0062
2.4G;	11.20	12.29	21.34	0.50	152.757	66	C	8363.6	0.0183
Sum TL Ratio_C	0.9924								
Ratio Limit	1								



R2_5G(4*4)+R3_2.4G(4*4)(XOR)+R4_Scan:2.4G+5G+6G(1T*2R)+IEEE 802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.8G;D1D	13.00	22.47	33.32	0.50	2409.905	66	C	8363.6	0.2882
2.4G;G1D	13.00	21.74	32.59	0.50	2037.042	66	C	8363.6	0.2437
2.4G;G1D	13.00	15.37	26.22	0.50	469.894	66	C	8363.6	0.0562
5.8G;D1D	13.00	15.11	25.96	0.50	442.588	66	C	8363.6	0.0529
6.7G;D1D	6.00	12.80	16.65	0.50	51.880	66	C	8363.6	0.0062
2.4G;	11.20	12.29	21.34	0.50	152.757	66	C	8363.6	0.0183
Sum TL Ratio_C	0.6655								
Ratio Limit	1								

Note 1: Option A, B and C refer as clause 2.2

Note 2: For option B, Pth(mW) convert to TL ERP(mW); For option C, ERP(W) convert to TL ERP(mW)

Note 3: TL Ratio=Tune-up ERP(mW)/TL ERP(mW)

Note 4: Refer as clause 2.3 Multiple RF Sources Exposure. Please follow below option and sum TL ration table.

Option	Sum TL Ratio_B	Option	Sum TL Ratio_C	Option	Sum TL Ratio_E
B	$\sum_{i=1}^a \frac{P_i}{P_{th,i}}$	C	$\sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}}$	E	$\sum_{k=1}^c \frac{Evaluated_k}{ExposureLimit_k}$

Note: The above antenna gain was declared by manufacturer.

—————THE END—————