



RADIO EXPOSURE TEST REPORT

FCC ID : UDX-600201010
Equipment : Cisco Wireless 9176I Series Wi-Fi 7 Access Point
Brand Name : CISCO
Model Name : CW9176I
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. 07, 2024, and testing was started from Apr. 08, 2024 and completed on Sep. 03, 2024. 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: Rex Liao

Sporton International Inc. Hsinchu Laboratory

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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 27
Issued Date : Dec. 19, 2025
Report Version : 01



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) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) VHT: 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)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5250 5250-5320 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 (Indoor Access Point & Subordinate)	5925-7125	5955-7115	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
6GHz WLAN (Standard Power Access Point)	5925-6425 / 6525-6875	5955-6415 / 6535-6855	
Bluetooth	2400-2483.5	2402-2480	LE: GFSK
Zigbee	2400-2483.5	2405-2480	O-QPSK
UWB	3100-10600	7987.2	Pi/2 shift BPSK + DSSS



1.2 Antenna Information

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	1	WNC	95XEAK15.GAV	PCB	I-PEX	Note 1	2.4GHz, 5GHz UNII 1~2A (Radio 1)
2	3	WNC	95XEAK15.GAW	PCB	I-PEX		
3	2	WNC	95XEAK15.GAY	PIFA	I-PEX		
4	4	WNC	95XEAK15.GAX	PIFA	I-PEX		
5	2	WNC	95XEAK15.GAZ	PCB	I-PEX		5GHz UNII 1~3 or UNII 2C~3 only (Radio 2)
6	3	WNC	95XEAK15.GB1	PCB	I-PEX		
7	1	WNC	95XEAK15.GB2	PIFA	I-PEX		
8	4	WNC	95XEAK15.GB3	PIFA	I-PEX		
9	1	WNC	95XEAK15.GB4	PCB	I-PEX		6GHz UNII 5~8 (Radio 3)
10	2	WNC	95XEAK15.GB5	PCB	I-PEX		
11	3	WNC	95XEAK15.GB7	PIFA	I-PEX		2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8 (Radio 4(Pine Scanning radio))
12	4	WNC	95XEAK15.GB6	PIFA	I-PEX		
13	2	WNC	95XEAK15.GBB	PIFA	I-PEX		
14	1	WNC	95XEAK15.GBA	PIFA	I-PEX		Bluetooth and Zigbee (Radio 5)
15	1	WNC	95XEAK15.GB8	PIFA	I-PEX		
16	1	WNC	95XEAK15.GB9	PIFA	IPEX	1.16GHz~1.19GHz: 2.9 1.56GHz~1.59GHz: 3.9	GPS (Radio 6)
17	1	WNC	95XEAK15.GBF	PIFA	IPEX	5.7	UWB (Radio 7)
18	2	WNC	95XEAK15.GBE	PCB	IPEX	6	
19	3	WNC	95XEAK15.GBE	PCB	IPEX	7.3	
20	4	WNC	95XEAK15.GBE	PCB	IPEX	5.6	



Note 1:

Ant.	Antenna Gain (dBi)								
	WLAN 2.4GHz (Radio 1)			WLAN 5GHz UNII 1~2A (Radio 1)					
				5.2GHz			5.3GHz		
1	4.98			2.42			3.3		
2	4.38			2.59			2.48		
3	3.95			4.86			5.17		
4	3.56			3.03			2.66		
Ant.	WLAN 5GHz UNII 1~3 (Radio 2)								
	5.2GHz			5.3GHz		5.6GHz		5.785GHz	
	2.65			3.3		2.92		2.37	
6	2.18			2.69		3.01		2.91	
7	3.63			3.77		3.93		3.91	
8	4.44			3.9		3.79		3.47	
Ant.	WLAN 6GHz UNII 5~8 (Radio 3)								
	6.175GHz			6.475GHz		6.695GHz		6.995GHz	
	3.45			4.72		3.33		3.43	
10	4.22			5.11		4.08		4.61	
11	4.83			3.79		3.71		4.53	
12	5.01			4.66		4.66		5.6	
Ant.	WLAN 2.4GHz/5GHz UNII 1~3/WLAN 6GHz UNII 5~8 (Radio 4(Pine Scanning radio))								
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
	13	2.46	2.35	2.62	4.9	3.33	5.53	4.82	4.27
14	2.39	4.11	4.47	5.67	4.75	6.1	4.65	4.58	6.18
Ant.	Bluetooth/Zigbee (Radio 5)								
15	3.58								

Note 2:

Item	Directional Gain (dBi)							
	WLAN 2.4GHz (Radio 1)			WLAN 5GHz UNII 1~2A (Radio 1)				
				5.2GHz			5.3GHz	
2T1S	5.13			4.86			5.17	
2T2S	4.98			4.86			5.17	
4T1S	6.92			5.15			5.29	
4T2S	4.98			4.86			5.17	
4T4S	4.98			4.86			5.17	
Item	WLAN 5GHz UNII 1~3 (Radio 2) / WLAN 6GHz UNII 5~8 (Radio 3)							
	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
2T1S	3.63	3.77	3.93	3.91	4.44	3.9	3.93	3.91
2T2S	3.63	3.77	3.93	3.91	4.44	3.9	3.93	3.91
4T1S	5.24	5	5.57	4.69	6.4	6.14	5.25	6.29
4T2S	4.44	3.9	3.93	3.91	5.01	5.11	4.66	5.6
4T4S	4.44	3.9	3.93	3.91	5.01	5.11	4.66	5.6

Note 3: The above information (excepting Ant. 1~15 antenna gain and directional gain) was declared by manufacturer.

Note 4: Radio 1~3: Maximum Directional Gain following KDB662911 D03.

For Radio 1**For 2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (1TX, 2TX, 4TX/4RX) and****For 5GHz (UNII 1~2A) IEEE 802.11a/n/ac/ax/be mode (1TX, 2TX, 4TX/4RX):****1TX**

Only Port 1 can be use as transmitting antenna.

2TX

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

Port 1, Port 2 could transmit simultaneously.

4TX

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

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

4RX

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

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

**For Radio 2****For 5GHz (UNII 1~3 or UNII 2C~3):****For IEEE 802.11a/n/ac/ax/be mode (1TX, 2TX, 4TX/4RX):****1TX**

Only Port 1 can be use as transmitting antenna.

2TX

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

Port 1, Port 2 could transmit simultaneously.

4TX

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

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

4RX

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

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

For Radio 3**For 6GHz (UNII 5~8):****For IEEE 802.11ax/be mode (1TX, 2TX, 4TX/4RX):****1TX**

Only Port 1 can be use as transmitting antenna.

2TX

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

Port 1, Port 2 could transmit simultaneously.

4TX

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

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

4RX

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

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

For Radio 4(Pine Scanning radio)**For 2.4GHz:****For IEEE 802.11b/g/n/VHT/ax mode (1TX/2RX):**

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

Port 1~2 could receive simultaneously.

For 5GHz (UNII 1~3):**For IEEE 802.11a/n/ac/ax mode (1TX/2RX):**

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

Port 1~2 could receive simultaneously.

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

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

Port 1~2 could receive simultaneously.

For Radio 5:**For Bluetooth/Zigbee mode (1TX/1RX)**

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

For Radio 6:**For GPS (1TX/1RX)**

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

For Radio 7:**For UWB (1TX/4RX)**

Mounting on a Wall

Only Port 1 can be used as transmitting functions.

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

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

Mounting on a Ceiling

Only Port 2 can be used as transmitting functions.



Port 1, Port 2, Port 3, Port 4 can be used as receiving antennas.
Port 1, Port 2, Port 3, Port 4 could receive simultaneously.

1.3 Table for Radio function

Radio \ Function	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz		BT	Zigbee	GPS	UWB
			Indoor Access Point & Standard Power Access Point	Subordinate				
1	✓	✓ (UNII 1~2A)	-	-	-	-	-	-
2	-	✓ (UNII 2C~3 / 1~3)	-	-	-	-	-	-
3	-	-	✓	✓ (Meraki SW)	-	-	-	-
4 (Pine Scanning radio)	✓	✓ (UNII 1~3)	✓	-	-	-	-	-
5	-	-	-	-	✓	✓	-	-
6	-	-	-	-	-	-	✓	-
7	-	-	-	-	-	-	-	✓

Note 1: The above information was declared by manufacturer.

Note 2: For WLAN 2.4GHz: The Radio 1 and Radio 4 (Pine Scanning radio) can't operate at the same frequency simultaneously.

For WLAN 5GHz: The Radio 1, 2 and Radio 4 (Pine Scanning radio) can't operate at the same frequency simultaneously.

For WLAN 6GHz: The Radio 3 and Radio 4 (Pine Scanning radio) can't operate at the same frequency simultaneously.

1.4 Table for Multiple Listing

Equipment Name	Model Name	Frequencies supported by 320MHz	SW
Cisco Wireless 9176I Series Wi-Fi 7 Access Point	CW9176I	6105, 6265, 6425, 6745 MHz	Cisco
		6105, 6265, 6425, 6585, 6745, 6905 MHz	Meraki

Note 1: The Standard Power Access Point mode does not support bandwidth 320 MHz.

Note 2: The above information was declared by manufacturer.

1.5 Table for EUT Support Function

Function	SW	6GHz Mode	Support Band
AP Router	Cisco & Meraki	Indoor Access Point & Standard Power Access Point	2.4GHz, 5GHz UNII 1~3, 6GHz UNII 5~8, Bluetooth, Zigbee, UWB & GPS
Mesh	Meraki	Subordinate	6GHz UNII 5~8
CURWB P2MP Master	Cisco	Indoor Access Point	5GHz UNII 1~3 & 6GHz UNII 5~8
CURWB P2MP Slave with radar detection	Cisco	N/A	5GHz UNII 1~3

Note 1: For Indoor Access Point and Subordinate modes, the Indoor Access Point mode was selected as representative mode for testing.

Note 2: The above information was declared by manufacturer.



1.6 Table for EUT Operation Function

Mode	Operation Function
1	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
2	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
3	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
4	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
5	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
6	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
7	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
8	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
9	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
10	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
11	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
12	Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
13	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
14	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
15	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
16	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
17	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
18	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB
19	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB
20	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB
21	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB
22	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB
23	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB
24	Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Note: The above information was declared by manufacturer.



1.7 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FA430535-16AA.

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

Modifications	Performance Checking
Enabling Cisco Ultra-Reliable Wireless Backhaul (CURWB) feature which supports P2MP Master in 5GHz UNII 1~3 and 6GHz UNII 5~8 (Indoor Access Point only), and P2MP Slave with radar detection in 5GHz UNII 1~3.	After evaluation, it does not need to re-test.

Note: All the test results are based on the original test report.

1.8 Accessories

Bracket 1*1

Bracket 2*1

1.9 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

1.10 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 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

2.2 MPE Calculation Method

The MPE was calculated at 60 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, <= P_{th}.

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

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

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.3G;D1D (Radio 1)	5.29	23.85	26.99	0.50	561.048	60	C	6912.1	0.0812
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
5.3G;D1D (Radio 2)	5.00	23.90	26.75	0.50	530.884	60	C	6912.1	0.0768
5.6G;D1D (Radio 2)	5.57	23.63	27.05	0.50	568.853	60	C	6912.1	0.0823
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.2G;D1D (6ID/Radio 3)	6.40	-	25.60	0.50	407.380	60	C	6912.1	0.0590
6.4G;D1D (6ID/Radio 3)	6.14	-	25.70	0.50	416.869	60	C	6912.1	0.0603
6.7G;D1D (6ID/Radio 3)	5.25	-	25.35	0.50	384.592	60	C	6912.1	0.0557
7.0G;D1D (6ID/Radio 3)	6.29	-	23.02	0.50	224.905	60	C	6912.1	0.0326
6.2G;D1D (6SD/Radio 3)	6.40	-	28.76	0.50	843.335	60	C	6912.1	0.1221
6.7G;D1D (6SD/Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
2.4G;G1D (Radio 4)	2.39	23.88	24.12	0.50	289.734	60	C	6912.1	0.0419
5.2G;D1D (Radio 4)	4.11	22.02	23.98	0.50	280.543	60	C	6912.1	0.0406
5.3G;D1D (Radio 4)	4.47	21.81	24.13	0.50	290.402	60	C	6912.1	0.0420
5.6G;D1D (Radio 4)	5.67	22.63	26.15	0.50	462.381	60	C	6912.1	0.0669
5.8G;D1D (Radio 4)	4.75	22.71	25.31	0.50	381.066	60	C	6912.1	0.0552
6.2G;D1D (6ID/Radio 4)	6.10	11.13	15.08	0.50	36.141	60	C	6912.1	0.0052
6.4G;D1D (6ID/Radio 4)	4.65	12.71	15.21	0.50	37.239	60	C	6912.1	0.0054
6.7G;D1D (6ID/Radio 4)	4.58	12.67	15.10	0.50	36.308	60	C	6912.1	0.0053
7.0G;D1D (6ID/Radio 4)	6.18	11.68	15.71	0.50	41.783	60	C	6912.1	0.0060
6.2G;D1D (6SD/Radio 4)	6.10	25.32	29.27	0.50	948.418	60	C	6912.1	0.1373
6.7G;D1D (6SD/Radio 4)	4.58	25.89	28.32	0.50	762.079	60	C	6912.1	0.1103

**RADIO EXPOSURE TEST REPORT**

Report No. : FA430535-20AA

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 (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001

Note:

Mode	EIRP PSD-AV (dBm/MHz)	OBW (MHz)	EIRP (dBm)	ERP (dBm)
Radio 7	-41.65	602.25	-13.85	-16.00

**Simultaneous Transmission Analysis Mode:**

Mode 1: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
2.4G;G1D (Radio 4)	2.39	23.88	24.12	0.50	289.734	60	C	6912.1	0.0419
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.75771								
Ratio Limit	1								

Mode 2: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
5.6G;D1D (Radio 4)	5.67	22.63	26.15	0.50	462.381	60	C	6912.1	0.0669
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.78271								
Ratio Limit	1								



Mode 3: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
6.2G;D1D (Radio 4)	6.10	25.32	29.27	0.50	948.418	60	C	6912.1	0.1373
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.85311								
Ratio Limit	1								

Mode 4: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
2.4G;G1D (Radio 4)	2.39	23.88	24.12	0.50	289.734	60	C	6912.1	0.0419
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.77031								
Ratio Limit	1								



Mode 5: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
5.6G;D1D (Radio 4)	5.67	22.63	26.15	0.50	462.381	60	C	6912.1	0.0669
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.79531								
Ratio Limit	1								

Mode 6: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
6.2G;D1D (Radio 4)	6.10	25.32	29.27	0.50	948.418	60	C	6912.1	0.1373
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.86571								
Ratio Limit	1								



Mode 7: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
2.4G;G1D (Radio 4)	2.39	23.88	24.12	0.50	289.734	60	C	6912.1	0.0419
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.87271								
Ratio Limit	1								

Mode 8: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
5.6G;D1D (Radio 4)	5.67	22.63	26.15	0.50	462.381	60	C	6912.1	0.0669
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.89771								
Ratio Limit	1								



Mode 9: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
6.2G;D1D (Radio 4)	6.10	25.32	29.27	0.50	948.418	60	C	6912.1	0.1373
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.96811								
Ratio Limit	1								

Mode 10: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
2.4G;G1D (Radio 4)	2.39	23.88	24.12	0.50	289.734	60	C	6912.1	0.0419
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.88531								
Ratio Limit	1								



Mode 11: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
5.6G;D1D (Radio 4)	5.67	22.63	26.15	0.50	462.381	60	C	6912.1	0.0669
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.91031								
Ratio Limit	1								

Mode 12: Radio 1 WLAN 2.4GHz + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D (Radio 1)	6.92	28.77	33.54	0.30	2421.029	60	C	6912.1	0.3504
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
6.2G;D1D (Radio 4)	6.10	25.32	29.27	0.50	948.418	60	C	6912.1	0.1373
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.98071								
Ratio Limit	1								



Mode 13: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
2.4G;G1D (Radio 4)	2.39	23.88	24.12	0.50	289.734	60	C	6912.1	0.0419
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.72031								
Ratio Limit	1								

Mode 14: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3)+ Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
5.6G;D1D (Radio 4)	5.67	22.63	26.15	0.50	462.381	60	C	6912.1	0.0669
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.745311								
Ratio Limit	1								



Mode 15: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
6.2G;D1D (Radio 4)	6.10	25.32	29.27	0.50	948.418	60	C	6912.1	0.1373
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.81571								
Ratio Limit	1								

Mode 16: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
2.4G;G1D (Radio 4)	2.39	23.88	24.12	0.50	289.734	60	C	6912.1	0.0419
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.73291								
Ratio Limit	1								



Mode 17: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
5.6G;D1D (Radio 4)	5.67	22.63	26.15	0.50	462.381	60	C	6912.1	0.0669
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.75791								
Ratio Limit	1								

Mode 18: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 2C~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.8G;D1D (Radio 2)	4.69	28.40	30.94	0.50	1393.157	60	C	6912.1	0.2016
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
6.2G;D1D (Radio 4)	6.10	25.32	29.27	0.50	948.418	60	C	6912.1	0.1373
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.82831								
Ratio Limit	1								



Mode 19: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
2.4G;G1D (Radio 4)	2.39	23.88	24.12	0.50	289.734	60	C	6912.1	0.0419
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.83531								
Ratio Limit	1								

Mode 20: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
5.6G;D1D (Radio 4)	5.67	22.63	26.15	0.50	462.381	60	C	6912.1	0.0669
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.86031								
Ratio Limit	1								



Mode 21: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz +
Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Bluetooth + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
6.2G;D1D (Radio 4)	6.10	25.32	29.27	0.50	948.418	60	C	6912.1	0.1373
2.4G;BT-LE (Radio 5)	3.58	15.48	16.91	0.50	55.081	60	C	6912.1	0.0080
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.93071								
Ratio Limit	1								

Mode 22: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio
4(Pine Scanning radio) WLAN 2.4GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
2.4G;G1D (Radio 4)	2.39	23.88	24.12	0.50	289.734	60	C	6912.1	0.0419
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.84791								
Ratio Limit	1								



Mode 23: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 5GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
5.6G;D1D (Radio 4)	5.67	22.63	26.15	0.50	462.381	60	C	6912.1	0.0669
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.87291								
Ratio Limit	1								

Mode 24: Radio 1 WLAN 5GHz (UNII 1~2A) + Radio 2 WLAN 5GHz (UNII 1~3) + Radio 3 WLAN 6GHz + Radio 4(Pine Scanning radio) WLAN 6GHz + Radio 5 Zigbee + Radio 7 UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D (Radio 1)	5.15	29.85	32.85	0.50	2162.719	60	C	6912.1	0.3130
5.2G;D1D (Radio 2)	5.24	29.81	32.90	0.50	2187.762	60	C	6912.1	0.3166
6.7G;D1D (Radio 3)	5.25	-	29.82	0.50	1076.465	60	C	6912.1	0.1558
6.2G;D1D (Radio 4)	6.10	25.32	29.27	0.50	948.418	60	C	6912.1	0.1373
2.4G;G1D (Radio 5 / Zigbee)	3.58	19.60	21.03	0.50	142.233	60	C	6912.1	0.0206
8G;D1D (Radio 7)	7.30	-	-16.00	0.50	0.028	60	C	6912.1	0.00001
Sum TL Ratio_C	0.94331								
Ratio Limit	1								

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