Radio Exposure Evaluation Report

FCC ID	:	**LDKMU6CR2417**
Equipment	:	**Cisco Catalyst 9136I Access Point**
Brand Name	:	**Cisco**
Model Name	:	**C9136I-B**
Applicant	:	**Cisco Systems Inc 125 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 Aug. 09, 2021, and testing was started from Aug. 12, 2021 and completed on Oct. 12, 2023. 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 variant 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

SPORTON INTERNATIONAL INC. Hsinhua Laboratory
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Photographs of EUT V01

History of this test report

Report No.	Version	Description	Issued Date
FA180526-19	01	Initial issue of report	Feb. 07, 2024

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: Ryan Hsiao

Report Producer: Ann Hou

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)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5240 5260-5320 5500-5700 5745-5825	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
6GHz WLAN	5925-6425 6525-6875	5955-6415 6535-6855	802.11a/n: OFDM (BPSK, QPSK, 16QAM, 64QAM) 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Bluetooth	2400-2483.5	2402-2480	LE: DSSS (GFSK)

Identify EUT	
Software Version	17.13.0.72

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Foxconn	361.01530.005	PIFA	I-PEX
2	Foxconn	361.01530.005	PIFA	I-PEX
3	Foxconn	361.01530.005	PIFA	I-PEX
4	Foxconn	361.01530.005	PIFA	I-PEX
5	Foxconn	361.01530.005	Dipole	I-PEX
6	Foxconn	361.01530.005	Dipole	I-PEX
7	Foxconn	361.01530.005	Dipole	I-PEX
8	Foxconn	361.01530.005	Dipole	I-PEX
9	Foxconn	361.01530.005	PIFA	I-PEX
10	Foxconn	361.01530.005	PIFA	I-PEX
11	Foxconn	361.01530.005	PIFA	I-PEX
12	Foxconn	361.01530.005	PIFA	I-PEX
13	Foxconn	361.01530.005	PIFA	I-PEX
14	Foxconn	361.01530.005	PIFA	I-PEX
15	Foxconn	361.01530.005	PIFA	I-PEX

Serving Radio

Ant.	Port	Gain (dBi)					
		2.4G	5G Primary	5G Secondary	5G Dual	6G	BT
1	1	4	5	-	5	-	-
2	2	4	5	-	5	-	-
3	3	4	5	-	5	-	-
4	4	4	5	-	5	-	-
5	5	-	-	5	5	-	-
6	6	-	-	5	5	-	-
7	7	-	-	5	5	-	-
8	8	-	-	5	5	-	-
9	1	-	-			6	-
10	2	-	-			6	-
11	3	-	-			6	-
12	4	-	-			6	-

Scanning Radio

Ant.	Port	Gain (dBi)			
		2.4G	5G	6G	BT
13	1	6	6	6	-
14	2	6	6	6	-

Ant.	Port	Gain (dBi)			
		2.4G	5G	6G	BT
15	1	-	-	-	5

Note 1: The EUT has fifteen antennas.

Note 2: The antenna for dual mode is cross polarized.

For 2.4GHz function:

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

Ant. 13 (port 1) and Ant. 14 (port 2) could transmit/receive simultaneously.

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

Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 3) and Ant. 4 (port 4) could transmit/receive simultaneously.

For BT function:

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

Only Ant. 15 (port 1) can be used as transmitting/receiving antenna.

For 5GHz function:

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

Ant. 13 (port 1) and Ant. 14 (port 2) could transmit/receive simultaneously.

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

Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 3) and Ant. 4 (port 4) could transmit/receive simultaneously.

Ant. 5 (port 5), Ant. 6 (port 6), Ant. 7 (port 7) and Ant. 8 (port 8) could transmit/receive simultaneously.

For IEEE 802.11 a/n/ac/ax mode (8TX/8RX)

Ant. 1 (port 1), Ant. 2 (port 2), Ant. 3 (port 3), Ant. 4 (port 4), Ant. 5 (port 5), Ant. 6 (port 6), Ant. 7(port 7), and Ant. 8 (port 8) could transmit/receive simultaneously.

For 6GHz function:

For IEEE 802.11 a/ax mode (2TX/2RX)

Ant. 13 (port 1) and Ant. 14 (port 2) could transmit/receive simultaneously.

For IEEE 802.11 a/ax mode (4TX/4RX)

Ant. 9 (port 1), Ant. 10 (port 2), Ant. 11(port 3) and Ant. 12 (port 4) could transmit/receive simultaneously.

1.1.3 Accessories

Accessories				
PoE	Brand Name	DELTA	Model Name	ADH-65AR B
	Power Rating	I/P: 100 - 240 Vac, 2.0 A, O/P: 56 Vdc, 1.161 A		

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

1.1.4 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FA180526
Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Add equipment class 6SD operates in the 5.925-6.425 GHz and 6.525-6.875 GHz bands through SW change.	All

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	**ADD:** No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)	
	(TAF: 3785**)**	**TEL:** 886-3-327-3456	**FAX:** 886-3-327-0973
Test site Designation No. TW3785 with FCC.			
☐	Wen 33rd.St.	**ADD:** No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)	
	(TAF: 3785**)**	**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/ cm²)	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 / f²)*	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/ cm²)	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/f²)*	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: WLAN 2.4G (Serving Radio Primary)+ WLAN 5G (Serving Radio Primary)+ WLAN 5G (Serving Radio Secondary)+ WLAN 6G+ Bluetooth

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)	$\mathrm{P}th(mW) = \begin{cases} ERP_{20cm}(d/20cm)^x \rightarrow d \le 20cm \\ ERP_{20cm} \rightarrow 20cm < d \le 40cm \end{cases}$ $x = -\log_{10}\left(\frac{60}{ERP_{20cm}\sqrt{f}}\right)$ and f is in GHz $\begin{cases} ERP_{20cm} : 0.3GHz \le f < 1.5GHz \rightarrow 2040\ f(mW) \\ ERP_{20cm} : 1.5GHz \le f \le 6GHz \rightarrow 3060\,(mW) \end{cases}$
C	§1.1307(b)(3)(i)(C)	$\begin{cases} 0.3 \sim 1.34MHz \rightarrow ERP(\mathrm{W}) = 1920\,R^2 \\ 1.34 \sim 30MHz \rightarrow ERP(\mathrm{W}) = 3450\,R^2 / f^2 \\ 30 \sim 300MHz \rightarrow ERP(\mathrm{W}) = 3.83R^2 \\ 300 \sim 1500MHz \rightarrow ERP(\mathrm{W}) = 0.0128\,R^2 f \\ 1500 \sim 100000\,MHz \rightarrow ERP(\mathrm{W}) = 19.2R^2 \end{cases}$ f is in MHz; R is in m; $\mathrm{R} > \lambda / 2\pi$

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)	$\sum_{i=1}^{a}\frac{P_i}{P_{th,i}}+\sum_{j=1}^{b}\frac{ERP_j}{ERP_{th,j}}+\sum_{k=1}^{c}\frac{Evaluated_k}{ExposureLimit_k}\le 1$ 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 58 cm to show compliance with the power density limit.
The following formula was used to calculate the Power Density:

E (V/m) = $\frac{\sqrt{30 \times P \times G}}{d}$ Power Density: *Pd* (W/m²) = $\frac{E^2}{377}$

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 (S mode)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	4.00	23.21	27.21	0.00	320.7082	58.00	0.01244	1.00000	C	6459	0.0497
2.4G;D1D	4.00	22.25	26.25	0.00	257.1047	58.00	0.00998	1.00000	C	6459	0.0398
2.4G;G1D	4.00	19.95	23.95	0.00	151.3945	58.00	0.00587	1.00000	C	6459	0.0234
2.4G;D1D	4.00	18.96	22.96	0.00	120.5341	58.00	0.00468	1.00000	C	6459	0.0187
2.4G;G1D	4.00	17.45	21.45	0.00	85.1354	58.00	0.00330	1.00000	C	6459	0.0132
2.4G;D1D	4.00	16.32	20.32	0.00	65.6311	58.00	0.00255	1.00000	C	6459	0.0102
2.4G;D1D	7.01	18.96	25.97	0.00	241.0516	58.00	0.00935	1.00000	C	6459	0.0373
2.4G;D1D	10.02	22.25	32.27	0.00	1,028.2767	58.00	0.03990	1.00000	C	6459	0.1592

5GHz WLAN (S mode)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	5.00	16.85	21.85	0.00	93.3491	58.00	0.00362	1.00000	C	6459	0.0145
5.3G;D1D	5.00	17.24	22.24	0.00	102.1198	58.00	0.00396	1.00000	C	6459	0.0158
5.6G;D1D	5.00	16.96	21.96	0.00	95.7437	58.00	0.00371	1.00000	C	6459	0.0148
5.8G;D1D	5.00	17.26	22.26	0.00	102.5912	58.00	0.00398	1.00000	C	6459	0.0159
5.2G;D1D	5.00	20.05	25.05	0.00	195.0339	58.00	0.00757	1.00000	C	6459	0.0302
5.3G;D1D	5.00	20.20	25.20	0.00	201.8878	58.00	0.00783	1.00000	C	6459	0.0313
5.6G;D1D	5.00	19.49	24.49	0.00	171.4391	58.00	0.00665	1.00000	C	6459	0.0265
5.8G;D1D	5.00	19.77	24.77	0.00	182.8563	58.00	0.00709	1.00000	C	6459	0.0283
5.2G;D1D	5.00	22.85	27.85	0.00	371.6293	58.00	0.01442	1.00000	C	6459	0.0575
5.3G;D1D	5.00	19.92	24.92	0.00	189.2823	58.00	0.00734	1.00000	C	6459	0.0293
5.6G;D1D	5.00	21.73	26.73	0.00	287.1508	58.00	0.01114	1.00000	C	6459	0.0445
5.8G;D1D	5.00	23.23	28.23	0.00	405.6113	58.00	0.01574	1.00000	C	6459	0.0628
5.2G;D1D	8.01	20.05	28.06	0.00	390.0408	58.00	0.01513	1.00000	C	6459	0.0604
5.3G;D1D	8.01	20.20	28.21	0.00	403.7476	58.00	0.01567	1.00000	C	6459	0.0625
5.6G;D1D	8.01	19.49	27.50	0.00	342.8546	58.00	0.01330	1.00000	C	6459	0.0531
5.8G;D1D	8.01	19.77	27.78	0.00	365.6874	58.00	0.01419	1.00000	C	6459	0.0566
5.2G;D1D	11.02	22.85	33.87	0.00	1,486.3121	58.00	0.05767	1.00000	C	6459	0.2301
5.3G;D1D	11.02	16.94	27.96	0.00	381.1624	58.00	0.01479	1.00000	C	6459	0.0590
5.6G;D1D	11.02	17.31	28.33	0.00	415.0592	58.00	0.01610	1.00000	C	6459	0.0643
5.8G;D1D	11.02	23.23	34.25	0.00	1,622.2209	58.00	0.06294	1.00000	C	6459	0.2512

6GHz WLAN (S mode)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	6.00	17.14	23.14	0.00	125.6348	58.00	0.00487	1.00000	C	6459	0.0195
6.7G;D1D	6.00	17.22	23.22	0.00	127.9705	58.00	0.00497	1.00000	C	6459	0.0198
6.2G;D1D	6.00	20.14	26.14	0.00	250.6744	58.00	0.00973	1.00000	C	6459	0.0388
6.7G;D1D	6.00	20.01	26.01	0.00	243.2820	58.00	0.00944	1.00000	C	6459	0.0377
6.2G;D1D	6.00	23.26	29.26	0.00	514.1739	58.00	0.01995	1.00000	C	6459	0.0796
6.7G;D1D	6.00	22.81	28.81	0.00	463.5643	58.00	0.01799	1.00000	C	6459	0.0718
6.2G;D1D	9.01	20.01	29.02	0.00	486.5304	58.00	0.01888	1.00000	C	6459	0.0753
6.7G;D1D	9.01	19.89	28.90	0.00	473.2711	58.00	0.01836	1.00000	C	6459	0.0733
6.2G;D1D	12.02	23.14	35.16	0.00	2,000.3685	58.00	0.07761	1.00000	C	6459	0.3097
6.7G;D1D	12.02	22.69	34.71	0.00	1,803.4745	58.00	0.06997	1.00000	C	6459	0.2792

Bluetooth

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)	Option	TL ERP (mW)	TL Ratio
2.4G;BT-LE	5.00	18.78	23.78	0.00	145.5828	58.00	0.00565	1.00000	C	6459	0.0225

5GHz WLAN (M mode)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	5.00	17.17	22.17	0.00	100.4870	58.00	0.00390	1.00000	C	6459	0.0156
5.3G;D1D	5.00	17.31	22.31	0.00	103.7791	58.00	0.00403	1.00000	C	6459	0.0161
5.6G;D1D	5.00	16.81	21.81	0.00	92.4932	58.00	0.00359	1.00000	C	6459	0.0143
5.8G;D1D	5.00	16.53	21.53	0.00	86.7181	58.00	0.00336	1.00000	C	6459	0.0134
5.2G;D1D	5.00	19.95	24.95	0.00	190.5943	58.00	0.00739	1.00000	C	6459	0.0295
5.3G;D1D	5.00	20.22	25.22	0.00	202.8196	58.00	0.00787	1.00000	C	6459	0.0314
5.6G;D1D	5.00	19.83	24.83	0.00	185.4001	58.00	0.00719	1.00000	C	6459	0.0287
5.8G;D1D	5.00	19.84	24.84	0.00	185.8275	58.00	0.00721	1.00000	C	6459	0.0288
5.2G;D1D	5.00	23.37	28.37	0.00	418.8997	58.00	0.01625	1.00000	C	6459	0.0649
5.3G;D1D	5.00	22.51	27.51	0.00	343.6450	58.00	0.01333	1.00000	C	6459	0.0532
5.6G;D1D	5.00	23.63	28.63	0.00	444.7439	58.00	0.01726	1.00000	C	6459	0.0689
5.8G;D1D	5.00	22.78	27.78	0.00	365.6874	58.00	0.01419	1.00000	C	6459	0.0566
5.2G;D1D	8.00	24.20	32.20	0.00	1,011.8357	58.00	0.03926	1.00000	C	6459	0.1567
5.3G;D1D	5.00	21.41	26.41	0.00	266.7534	58.00	0.01035	1.00000	C	6459	0.0413
5.6G;D1D	5.00	23.76	28.76	0.00	458.2579	58.00	0.01778	1.00000	C	6459	0.0710
5.8G;D1D	8.00	25.69	33.69	0.00	1,425.9687	58.00	0.05533	1.00000	C	6459	0.2208
5.2G;D1D	8.01	23.37	31.38	0.00	837.7414	58.00	0.03250	1.00000	C	6459	0.1297
5.3G;D1D	8.01	21.46	29.47	0.00	539.6473	58.00	0.02094	1.00000	C	6459	0.0836
5.6G;D1D	8.01	21.27	29.28	0.00	516.5472	58.00	0.02004	1.00000	C	6459	0.0800
5.8G;D1D	8.01	22.78	30.79	0.00	731.3243	58.00	0.02837	1.00000	C	6459	0.1132
5.2G;D1D	11.02	24.20	35.22	0.00	2,028.1964	58.00	0.07869	1.00000	C	6459	0.3140
5.3G;D1D	11.02	18.41	29.43	0.00	534.6998	58.00	0.02075	1.00000	C	6459	0.0828
5.6G;D1D	11.02	18.39	29.41	0.00	532.2431	58.00	0.02065	1.00000	C	6459	0.0824
5.8G;D1D	11.02	24.43	35.45	0.00	2,138.5037	58.00	0.08297	1.00000	C	6459	0.3311

2.4GHz WLAN (AUX mode)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	6.00	17.28	23.28	0.00	129.7508	58.00	0.00503	1.00000	C	6459	0.0201
2.4G;D1D	6.00	17.29	23.29	0.00	130.0499	58.00	0.00505	1.00000	C	6459	0.0201
2.4G;G1D	6.00	20.48	26.48	0.00	271.0878	58.00	0.01052	1.00000	C	6459	0.0420
2.4G;D1D	6.00	20.07	26.07	0.00	246.6664	58.00	0.00957	1.00000	C	6459	0.0382
2.4G;D1D	9.01	19.99	29.00	0.00	484.2950	58.00	0.01879	1.00000	C	6459	0.0750

5GHz WLAN (AUX mode)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	6.00	16.48	22.48	0.00	107.9220	58.00	0.00419	1.00000	C	6459	0.0167
5.3G;D1D	6.00	16.64	22.64	0.00	111.9721	58.00	0.00434	1.00000	C	6459	0.0173
5.6G;D1D	6.00	16.69	22.69	0.00	113.2687	58.00	0.00439	1.00000	C	6459	0.0175
5.8G;D1D	6.00	16.96	22.96	0.00	120.5341	58.00	0.00468	1.00000	C	6459	0.0187
5.2G;D1D	6.00	19.98	25.98	0.00	241.6073	58.00	0.00937	1.00000	C	6459	0.0374
5.3G;D1D	6.00	20.01	26.01	0.00	243.2820	58.00	0.00944	1.00000	C	6459	0.0377
5.6G;D1D	6.00	20.14	26.14	0.00	250.6744	58.00	0.00973	1.00000	C	6459	0.0388
5.8G;D1D	6.00	20.29	26.29	0.00	259.4837	58.00	0.01007	1.00000	C	6459	0.0402
5.2G;D1D	9.01	19.85	28.86	0.00	468.9321	58.00	0.01819	1.00000	C	6459	0.0726
5.3G;D1D	9.01	19.88	28.89	0.00	472.1826	58.00	0.01832	1.00000	C	6459	0.0731
5.6G;D1D	9.01	20.01	29.02	0.00	486.5304	58.00	0.01888	1.00000	C	6459	0.0753
5.8G;D1D	9.01	20.18	29.19	0.00	505.9528	58.00	0.01963	1.00000	C	6459	0.0783

6GHz WLAN (AUX mode)

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	6.00	18.46	24.46	0.00	170.2590	58.00	0.00661	1.00000	C	6459	0.0264
6.7G;D1D	6.00	18.05	24.05	0.00	154.9209	58.00	0.00601	1.00000	C	6459	0.0240
6.2G;D1D	6.00	21.41	27.41	0.00	335.8227	58.00	0.01303	1.00000	C	6459	0.0520
6.7G;D1D	6.00	21.11	27.11	0.00	313.4079	58.00	0.01216	1.00000	C	6459	0.0485
6.2G;D1D	9.01	21.30	30.31	0.00	654.8020	58.00	0.02541	1.00000	C	6459	0.1014
6.7G;D1D	9.01	20.98	29.99	0.00	608.2891	58.00	0.02360	1.00000	C	6459	0.0942

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: WLAN 2.4G (Serving Radio Primary)+ WLAN 5G (Serving Radio Primary)+ WLAN 5G (Serving Radio Secondary)+ WLAN 6G+ Bluetooth

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	S (mW/cm²)	S Limit (mW/cm²)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	10.02	22.25	32.27	0.00	1028.2767	58.00	0.03990	1.00000	C	6459	0.1592
5.8G;D1D	11.02	23.23	34.25	0.00	1622.2209	58.00	0.06294	1.00000	C	6459	0.2512
5.8G;D1D	11.02	23.23	34.25	0.00	1622.2209	58.00	0.06294	1.00000	C	6459	0.2512
6.2G;D1D	12.02	23.14	35.16	0.00	2000.3685	58.00	0.07761	1.00000	C	6459	0.3097
2.4G;BT-LE	5.00	18.78	23.78	0.00	145.5828	58.00	0.00565	1.00000	C	6459	0.0225
										Sum Ratio	0.9938
										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———