

Radio Exposure Evaluation Report

FCC ID : 2AHBN-AP66
Equipment : Wi-Fi 7 Wireless Access Point
Brand Name : Juniper
Model Name : AP66E
Applicant : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089 USA
Manufacturer : Juniper Networks, Inc.
1133 Innovation Way Sunnyvale, California 94089 USA
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1091

The product was received on Aug. 05, 2025, and testing was started from Sep. 02, 2025 and completed on Jul. 19, 2026. 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

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Photographs of EUT V01

History of this test report

[illegible]



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: 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	AccelTex	ATS-OO-2456-466-4 NP-36	OMNI	N-Style Plug	2.4G+5G+6G	Radio 2+1+0
2	AccelTex	ATS-OP-2456-81010 -4NP-36	PATCH	N-Style Plug	2.4G+5G+6G	Radio 2+1+0
3	Juniper	AP66	PIFA	I-Pex	2.4G+5G+6G	Radio 3
4	Juniper	AP66	PIFA	I-Pex	802.15.4	Radio 5
5	Juniper	AP66	PIFA	I-Pex	BT	Radio 4
6	Juniper	AP66	PIFA	I-Pex	GPS	Radio 6

Ant.	POL	Port	Gain (dBi)											
			2.4G	UNII-1	UNII-2 A	UNII-2 C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	802.15.4	BT	GPS
1	V-POL	1	4	6	6	6	6	6	6	6	6	-	-	-
	V-POL	2	4	6	6	6	6	6	6	6	6	-	-	-
	V-POL	3	4	6	6	6	6	6	6	6	6	-	-	-
	V-POL	4	4	6	6	6	6	6	6	6	6	-	-	-
2	H-POL	1	8	10	10	10	10	10	10	10	10	-	-	-
	V-POL	2	8	10	10	10	10	10	10	10	10	-	-	-
	H-POL	3	8	10	10	10	10	10	10	10	10	-	-	-
	V-POL	4	8	10	10	10	10	10	10	10	10	-	-	-
3		1	4.8	5.4	5.3	5.1	5	5.1	6.2	5.9	5.7	-	-	-
4		1	-	-	-	-	-	-	-	-	-	5.1	-	-
5		1	-	-	-	-	-	-	-	-	-	-	6.3	-
6		1	-	-	-	-	-	-	-	-	-	-	-	3.9

Note 1: The EUT has six antennas.

For 2.4GHz function:

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

Ant. 1 (port 1~2) could transmit/receive simultaneously.

Ant. 2 (port 1~2) could transmit/receive simultaneously.

For b20/g20 mode (1TX/1RX) < **Radio 3_Scan** >

Ant. 3 (port 1) could transmit/receive.

For 5GHz function:

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

Ant. 1 (port 1~2) could transmit/receive simultaneously.

Ant. 2 (port 1~2) could transmit/receive simultaneously.

For a20 mode (1TX/1RX) < **Radio 3_Scan** >

Ant. 3 (port 1) could transmit/receive.

**For 6GHz function:**

For IEEE 802.11 ax/be mode(2TX/2RX) < **Radio 1** >

Ant. 1 (port 3~4) could transmit/receive simultaneously.

Ant. 2 (port 3~4) could transmit/receive simultaneously.

For a20 mode (1TX/1RX) < **Radio 3_Scan** >

Ant. 3 (port 1) could transmit/receive.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX) < **Radio 4** >

Ant. 5 (port 1) could transmit/receive.

For 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX) < **Radio 5** >

Ant. 4 (port 1) 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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{IS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{IS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{IS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 Table for Multiple Listing

SKU	Difference
AP66	Wi-Fi Internal Omni Antenna
AP66D	Wi-Fi Internal Dynamic Directional Antenna
AP66E	Wi-Fi External OMNI & Patch Antenna

Note: The information presented above originates from the manufacturer.

1.1.4 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FA583005-01

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

Modifications	Performance Checking
Add Model name (AP66E) (Service Radio (Radio 0/Radio 1/Radio 2) Wi-Fi Internal Antenna change to External Antenna)	Exposure evaluation was evaluated.



1.1.5 Accessories

Accessories
Bracket*1

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.			

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. R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (2.4G)+BT
2. R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (5G)+BT
3. R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (6G)+BT
4. R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (2.4G)+802.15.4
5. R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (5G)+802.15.4
6. R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (6G)+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 is in MHz; R 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 47 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

< Non-Beamforming >

2.4GHz WLAN

Non-Beamforming_Radio 2

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	8.00	20.63	26.48	0.50	498.884	47	C	4241.3	0.1177
2.4G;D1D	8.00	20.19	26.04	0.50	450.817	47	C	4241.3	0.1063

Non-Beamforming_Radio 3_Scan

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;G1D	4.80	21.45	24.10	0.50	288.403	47	C	4241.3	0.0680
2.4G;D1D	4.80	21.11	23.76	0.50	266.686	47	C	4241.3	0.0629

5GHz WLAN

Non-Beamforming_Radio 1 Indoor_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	10.00	21.19	29.04	0.50	899.498	47	C	4241.3	0.2122
5.3G;D1D	10.00	19.46	27.31	0.50	603.949	47	C	4241.3	0.1424
5.6G;D1D	10.00	19.4	27.25	0.50	595.662	47	C	4241.3	0.1405
5.8G;D1D	10.00	21.88	29.73	0.50	1054.387	47	C	4241.3	0.2487

Non-Beamforming_Radio 1 Indoor_Multi-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	10.00	16.74	24.59	0.50	322.849	47	C	4241.3	0.0761
5.3G;D1D	10.00	16.07	23.92	0.50	276.694	47	C	4241.3	0.0653
5.6G;D1D	10.00	18.24	26.09	0.50	456.037	47	C	4241.3	0.1076
5.8G;D1D	10.00	18.76	26.61	0.50	514.044	47	C	4241.3	0.1212

Non-Beamforming_Radio 1 Outdoor_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	10.00	19.17	27.02	0.50	926.830	47	C	4241.3	0.2185
5.3G;D1D	10.00	19.46	27.31	0.50	603.949	47	C	4241.3	0.1424
5.6G;D1D	10.00	19.4	27.25	0.50	595.662	47	C	4241.3	0.1404
5.8G;D1D	10.00	21.88	29.73	0.50	1054.387	47	C	4241.3	0.2486

**Non-Beamforming_Radio 1_Outdoor Multi-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	10.00	16.17	24.02	0.50	283.139	47	C	4241.3	0.0668
5.3G;D1D	10.00	16.07	23.92	0.50	276.694	47	C	4241.3	0.0652
5.6G;D1D	10.00	18.24	26.09	0.50	456.037	47	C	4241.3	0.1075
5.8G;D1D	10.00	18.76	26.61	0.50	514.044	47	C	4241.3	0.1212

Non-Beamforming_Radio 3_Scan Indoor_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	5.40	20.74	23.99	0.50	281.190	47	C	4241.3	0.0663
5.3G;D1D	5.30	19.25	22.40	0.50	194.984	47	C	4241.3	0.0460
5.6G;D1D	5.10	20.6	23.55	0.50	254.097	47	C	4241.3	0.0599
5.8G;D1D	5.00	20.48	23.33	0.50	241.546	47	C	4241.3	0.0570

Non-Beamforming_Radio 3_Scan Outdoor_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	5.40	15.04	18.29	0.50	75.683	47	C	4241.3	0.0178
5.3G;D1D	5.30	19.25	22.40	0.50	194.984	47	C	4241.3	0.0460
5.6G;D1D	5.10	20.6	23.55	0.50	254.097	47	C	4241.3	0.0599
5.8G;D1D	5.00	20.48	23.33	0.50	241.546	47	C	4241.3	0.0570

6GHz WLAN**Non-Beamforming_Radio 0_Indoor_Full RU**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	27.01	0.50	563.638	47	C	4241.3	0.1329
6.7G;D1D	-	-	26.11	0.50	458.142	47	C	4241.3	0.1081

Non-Beamforming_Radio 0_Outdoor_Full RU

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	18.17	0.50	73.621	47	C	4241.3	0.0174
6.7G;D1D	-	-	17.80	0.50	67.608	47	C	4241.3	0.0159

Non-Beamforming_Radio 3_Scan Indoor_Full RU

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	22.75	0.50	211.349	47	C	4241.3	0.0498
6.7G;D1D	-	-	22.52	0.50	200.447	47	C	4241.3	0.0473

Non-Beamforming_Radio 3_Scan Outdoor_Full RU

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	18.15	0.50	73.282	47	C	4241.3	0.0173
6.7G;D1D	-	-	19.00	0.50	89.125	47	C	4241.3	0.0210

**Bluetooth**

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	6.30	12.91	17.06	0.50	57.016	47	C	4241.3	0.0134

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;	5.10	12.53	15.48	0.50	39.628	47	C	4241.3	0.0093



< Beamforming >

2.4GHz WLAN**Beamforming_Radio 2**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107

5GHz WLAN**Beamforming_Radio 1 Indoor_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	13.01	21.06	31.92	0.50	1745.822	47	C	4241.3	0.4118
5.3G;D1D	13.01	16.35	27.21	0.50	590.201	47	C	4241.3	0.1392
5.6G;D1D	13.01	16.39	27.25	0.50	595.662	47	C	4241.3	0.1405
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4849

Beamforming_Radio 1 Outdoor_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	13.01	18.9	29.76	0.50	1061.696	47	C	4241.3	0.2503
5.3G;D1D	13.01	16.35	27.21	0.50	590.201	47	C	4241.3	0.1392
5.6G;D1D	13.01	16.39	27.25	0.50	595.662	47	C	4241.3	0.1404
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4847

6GHz WLAN**Beamforming_Radio 0 Indoor_Full RU**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	28.68	0.50	827.942	47	C	4241.3	0.1953
6.7G;D1D	-	-	29.04	0.50	899.498	47	C	4241.3	0.2122

Beamforming_Radio 0 Outdoor_Full RU

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	20.89	0.50	137.721	47	C	4241.3	0.0325
6.7G;D1D	-	-	21.45	0.50	156.675	47	C	4241.3	0.0369

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:**

< Indoor >

R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (2.4G)+BT

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	29.04	0.50	899.498	47	C	4241.3	0.2122
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4849
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
2.4G;G1D	4.80	21.45	24.10	0.50	288.403	47	C	4241.3	0.0680
2.4G;BT-LE	6.30	12.91	17.06	0.50	57.016	47	C	4241.3	0.0134
Sum TL Ratio_C	0.9892								
Ratio Limit	1								

R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (5G)+BT

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	29.04	0.50	899.498	47	C	4241.3	0.2122
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4849
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
5.2G;D1D	5.40	20.74	23.99	0.50	281.190	47	C	4241.3	0.0663
2.4G;BT-LE	6.30	12.91	17.06	0.50	57.016	47	C	4241.3	0.0134
Sum TL Ratio_C	0.9875								
Ratio Limit	1								

R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (6G)+BT

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	29.04	0.50	899.498	47	C	4241.3	0.2122
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4849
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
6.2G;D1D	-	-	22.75	0.50	211.349	47	C	4241.3	0.0498
2.4G;BT-LE	6.30	12.91	17.06	0.50	57.016	47	C	4241.3	0.0134
Sum TL Ratio_C	0.971								
Ratio Limit	1								

R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (2.4G)+802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	29.04	0.50	899.498	47	C	4241.3	0.2122
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4849
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
2.4G;G1D	4.80	21.45	24.10	0.50	288.403	47	C	4241.3	0.0680
2.4G;	5.10	12.53	15.48	0.50	39.628	47	C	4241.3	0.0093
Sum TL Ratio_C	0.9851								
Ratio Limit	1								

**R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (5G)+802.15.4**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	29.04	0.50	899.498	47	C	4241.3	0.2122
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4849
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
5.2G;D1D	5.40	20.74	23.99	0.50	281.190	47	C	4241.3	0.0663
2.4G;	5.10	12.53	15.48	0.50	39.628	47	C	4241.3	0.0093
Sum TL Ratio_C	0.9834								
Ratio Limit	1								

R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (6G)+802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	29.04	0.50	899.498	47	C	4241.3	0.2122
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4849
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
6.2G;D1D	-	-	22.75	0.50	211.349	47	C	4241.3	0.0498
2.4G;	5.10	12.53	15.48	0.50	39.628	47	C	4241.3	0.0093
Sum TL Ratio_C	0.9669								
Ratio Limit	1								

**Simultaneous Transmission Analysis Mode:**

< Outdoor >

R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (2.4G)+BT

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	21.45	0.50	156.675	47	C	4241.3	0.0369
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4847
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
2.4G;G1D	4.80	21.45	24.10	0.50	288.403	47	C	4241.3	0.0680
2.4G;BT-LE	6.30	12.91	17.06	0.50	57.016	47	C	4241.3	0.0134
Sum TL Ratio_C	0.8138								
Ratio Limit	1								

R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (5G)+BT

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	21.45	0.50	156.675	47	C	4241.3	0.0369
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4847
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
5.6G;D1D	5.10	20.6	23.55	0.50	254.097	47	C	4241.3	0.0599
2.4G;BT-LE	6.30	12.91	17.06	0.50	57.016	47	C	4241.3	0.0134
Sum TL Ratio_C	0.8057								
Ratio Limit	1								

R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (6G)+BT

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	21.45	0.50	156.675	47	C	4241.3	0.0369
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4847
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
6.7G;D1D	-	-	19.00	0.50	89.125	47	C	4241.3	0.0210
2.4G;BT-LE	6.30	12.91	17.06	0.50	57.016	47	C	4241.3	0.0134
Sum TL Ratio_C	0.7669								
Ratio Limit	1								

R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (2.4G)+802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	21.45	0.50	156.675	47	C	4241.3	0.0369
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4847
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
2.4G;G1D	4.80	21.45	24.10	0.50	288.403	47	C	4241.3	0.0680
2.4G;	5.10	12.53	15.48	0.50	39.628	47	C	4241.3	0.0093
Sum TL Ratio_C	0.8097								
Ratio Limit	1								

**R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (5G)+802.15.4**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	21.45	0.50	156.675	47	C	4241.3	0.0369
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4847
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
5.6G;D1D	5.10	20.6	23.55	0.50	254.097	47	C	4241.3	0.0599
2.4G;	5.10	12.53	15.48	0.50	39.628	47	C	4241.3	0.0093
Sum TL Ratio_C	0.8016								
Ratio Limit	1								

R0 (6E)+R1 (5G)+R2 (2.4G)+R3 (6G)+802.15.4

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	21.45	0.50	156.675	47	C	4241.3	0.0369
5.8G;D1D	13.01	21.77	32.63	0.50	2055.891	47	C	4241.3	0.4847
2.4G;D1D	11.01	20.15	29.01	0.50	893.305	47	C	4241.3	0.2107
6.7G;D1D	-	-	19.00	0.50	89.125	47	C	4241.3	0.0210
2.4G;	5.10	12.53	15.48	0.50	39.628	47	C	4241.3	0.0093
Sum TL Ratio_C	0.7628								
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—