

Radio Exposure Evaluation Report

FCC ID : QXO-AP5022
Equipment : Access Point
Brand Name : Extreme Networks
Model Name : AP5022
Applicant : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Manufacturer : Extreme Networks, Inc.
2121 RDU Center Drive Morrisville North Carolina
United States 27560
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1091

The product was received on Oct. 15, 2025, and testing was started from Nov. 06, 2025 and completed on Dec. 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
FA5O0964A	01	Initial issue of report	May 13, 2026



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: Sam Tsai

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) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
6GHz WLAN	5925-7125	5955-7115	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)
UWB	3.1~10.6 GHz	7987.2	BPSK + DSSS

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Support	Radio	Remark
1	1	WNC	95XPAM15.G49	PIFA	I-Pex	2.4G + 5G Full & High	Radio 1+Radio 2	-
2	2	WNC	95XPAM15.G50	PIFA	I-Pex	2.4G + 5G Full & High	Radio 1+Radio 2	-
3	3	WNC	95XPAM15.G51	PIFA	I-Pex	2.4G + 5G Full & High	Radio 1+Radio 2	-
4	4	WNC	95XPAM15.G52	PIFA	I-Pex	2.4G + 5G Full & High	Radio 1+Radio 2	-
5	1	WNC	95XPAM15.G45	PIFA	I-Pex	5G Low & 6G High	Radio 1	-
6	2	WNC	95XPAM15.G46	PIFA	I-Pex	5G Low & 6G High	Radio 1	-
7	3	WNC	95XPAM15.G47	Alford loop	I-Pex	5G Low & 6G High	Radio 1	-
8	4	WNC	95XPAM15.G48	Alford loop	I-Pex	5G Low & 6G High	Radio 1	-
9	1	WNC	95XPAM15.G41	PIFA	I-Pex	6G Full & 6G Low	Radio 3	-
10	2	WNC	95XPAM15.G42	PIFA	I-Pex	6G Full & 6G Low	Radio 3	-
11	3	WNC	95XPAM15.G43	Alford loop	I-Pex	6G Full & 6G Low	Radio 3	-
12	4	WNC	95XPAM15.G44	Alford loop	I-Pex	6G Full & 6G Low	Radio 3	-
13	1	WNC	95XPAM15.G56	PIFA	I-Pex	Scan 2.4G & 5G & 6G	Radio 4	-
14	2	WNC	95XPAM15.G57	PIFA	I-Pex	Scan 2.4G & 5G & 6G	Radio 4	-
15	1	WNC	95XPAM15.G53	PIFA	I-Pex	BT+802.15.4	Radio 5	-
16	2	WNC	95XPAM15.G54	PIFA	I-Pex	BT+802.15.4	Radio 5	-
17	3	WNC	95XPAM15.GAM	Alford loop	I-Pex	BT+802.15.4	Radio 5	-
18	1	WNC	95XPAM15.G81	Alford loop	I-Pex	UWB	Radio 6	-
19	2	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	-
20	3	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	-
21	4	WNC	95XPAM15.G82	Alford loop	I-Pex	UWB	Radio 6	-



Ant.	Port	Gain (dBi)											
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	BT	802.15.4	UWB
1	1	2.15	5.74	5.77	5.3	4.82	-	-	-	-	-	-	-
2	2	3.45	5.99	6.45	6.41	6.34	-	-	-	-	-	-	-
3	3	2.18	6.63	6.66	6.27	5.95	-	-	-	-	-	-	-
4	4	2.63	6.04	5.63	4.26	2.27	-	-	-	-	-	-	-
5	1	-	4.93	5.19	-	-	-	-	5.06	4.82	-	-	-
6	2	-	4.65	5.24	-	-	-	-	4.77	4.35	-	-	-
7	3	-	4.82	5.08	-	-	-	-	2.58	3.71	-	-	-
8	4	-	2.81	2.66	-	-	-	-	2.57	2.5	-	-	-
9	1	-	-	-	-	-	4.97	3.84	4.55	4.79	-	-	-
10	2	-	-	-	-	-	5.69	5.41	5.56	5.02	-	-	-
11	3	-	-	-	-	-	4.2	5.01	3.8	5.01	-	-	-
12	4	-	-	-	-	-	3.94	4.32	3.2	4.54	-	-	-
13	1	3.1	3.54	3.26	3.65	2.58	3.03	3.21	3.62	3.22	-	-	-
14	2	2.91	4.08	3.88	4.3	4.67	6.04	5.01	5.64	5.24	-	-	-
15	1	-	-	-	-	-	-	-	-	-	4	4	-
16	2	-	-	-	-	-	-	-	-	-	5.1	5.1	-
17	3	-	-	-	-	-	-	-	-	-	3.6	3.6	-
18	1	-	-	-	-	-	-	-	-	-	-	-	5.8
19	2	-	-	-	-	-	-	-	-	-	-	-	4.8
20	3	-	-	-	-	-	-	-	-	-	-	-	3.9
21	4	-	-	-	-	-	-	-	-	-	-	-	4.8

Ant.		Composite Gain (dBi) for 4TX								
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1~4	DG [1SS]	6.82	10.36	10.35	9.83	9.17	-	-	-	-
	DG [2SS]	3.82	7.36	7.35	6.83	6.34	-	-	-	-
	DG [4SS]	3.45	6.63	6.66	6.41	6.34	-	-	-	-
5~8	DG [1SS]	-	5.69	5.63	-	-	-	-	5.77	5.61
	DG [2SS]	-	4.93	5.24	-	-	-	-	5.06	4.82
	DG [4SS]	-	4.93	5.24	-	-	-	-	5.06	4.82
9~12	DG [1SS]	-	-	-	-	-	5.91	6.8	5.56	6.06
	DG [2SS]	-	-	-	-	-	5.69	5.41	5.56	5.02
	DG [4SS]	-	-	-	-	-	5.69	5.41	5.56	5.02



Ant.		Composite Gain (dBi) for 2TX								
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8
1~2	DG [1SS]	5.29	6.92	7.56	7.4	6.45	-	-	-	-
	DG [2SS]	3.45	5.99	6.45	6.41	6.34	-	-	-	-
5~6	DG [1SS]	-	7.49	7.94	-	-	-	-	7.87	7.36
	DG [2SS]	-	4.93	5.24	-	-	-	-	5.06	4.82
9~10	DG [1SS]	-	-	-	-	-	6.85	6.13	6.51	5.83
	DG [2SS]	-	-	-	-	-	5.69	5.41	5.56	5.02
13~14	DG [1SS]	3.95	6.62	6.37	6.99	5.33	6.09	5.99	6.72	5.49
	DG [2SS]	3.1	4.08	3.88	4.3	4.67	6.04	5.01	5.64	5.24

Note 1: The EUT has Twenty-one antennas.

Note 2: The composite gain is derived as KDB 662911 D03 v02 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP5O0964A.

For 2.4GHz function:

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

Ant. 1 could transmit/receive.

For IEEE 802.11 b/g/n/VHT/ax/be mode (2TX/4RX) (Radio 1)

Ant. 1~2 could transmit/receive simultaneously.

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

Ant. 1~4 could transmit/receive simultaneously.

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

Ant. 13~14 could transmit/receive simultaneously.

For 5GHz function:

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

Ant. 5 could transmit/receive.

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

Ant. 5~6 could transmit/receive simultaneously.

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

Ant. 5~8 could transmit/receive simultaneously.

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

Ant. 1 could transmit/receive.

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

Ant. 1~2 could transmit/receive simultaneously.

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

Ant. 1~4 could transmit/receive simultaneously.

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

Ant. 13~14 could transmit/receive simultaneously.

For 6GHz function:

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

Ant. 5 could transmit/receive.

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

Ant. 5~6 could transmit/receive simultaneously.

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

Ant. 5~8 could transmit/receive simultaneously.



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

Ant. 9 could transmit/receive.

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

Ant. 9~10 could transmit/receive simultaneously.

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

Ant. 9~12 could transmit/receive simultaneously.

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

Ant. 13~14 could transmit/receive simultaneously.

For BT function:

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

Ant. 15 or Ant.16 or Ant 17 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 802.15.4 function:

For IEEE 802.15.4 mode (1TX/1RX)

Ant. 15 or Ant.16 or Ant 17 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 UWB function(2TX/4RX):

Ant. 18 and Ant 20 could transmit.

Ant. 18~21 could receive.

1.1.3 Accessories

Accessories				
Bracket	Brand Name	Extreme	Model Name	AH-ACC-BKT-TB

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 | Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (2.4G)+BT+UWB |
| 2 | Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (5G)+BT+UWB |
| 3 | Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (6G)+BT+UWB |
| 4 | Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (2.4G)+802.15.4+UWB |
| 5 | Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (5G)+802.15.4+UWB |
| 6 | Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (6G)+802.15.4+UWB |
| 7 | Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (2.4G)+BT+UWB |
| 8 | Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (5G)+BT+UWB |
| 9 | Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (6G)+BT+UWB |
| 10 | Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (2.4G)+802.15.4+UWB |
| 11 | Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (5G)+802.15.4+UWB |
| 12 | Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (6G)+802.15.4+UWB |
| 13 | Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (2.4G)+BT+UWB |
| 14 | Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (5G)+BT+UWB |
| 15 | Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (6G)+BT+UWB |
| 16 | Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (2.4G)+802.15.4+UWB |
| 17 | Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (5G)+802.15.4+UWB |
| 18 | Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (6G)+802.15.4+UWB |

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 $\lambda/2\pi$ 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 72 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_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	2.15	21.37	21.37	0.50	153.815	72	C	9953.4	0.0155
2.4G;D1D	2.15	21.39	21.39	0.50	154.525	72	C	9953.4	0.0155

Non-Beamforming_Radio 1_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	3.45	24.14	25.44	0.50	392.645	72	C	9953.4	0.0395
2.4G;D1D	3.45	23.83	25.13	0.50	365.595	72	C	9953.4	0.0367

Non-Beamforming_Radio 1_2T2S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	3.45	23.48	24.78	0.50	337.287	72	C	9953.4	0.0339

Non-Beamforming_Radio 1_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	3.45	27.13	28.43	0.50	781.628	72	C	9953.4	0.0786
2.4G;D1D	3.45	25.11	26.41	0.50	490.908	72	C	9953.4	0.0493

Non-Beamforming_Radio 1_4T4S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	3.45	26.38	27.68	0.50	657.658	72	C	9953.4	0.0661

Non-Beamforming_Scan Radio_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	3.10	25.51	26.46	0.50	496.592	72	C	9953.4	0.0499
2.4G;D1D	3.10	23.23	24.18	0.50	293.765	72	C	9953.4	0.0295

Non-Beamforming_Scan Radio_2T2S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	3.10	23.88	24.83	0.50	341.193	72	C	9953.4	0.0343

**5GHz WLAN****Non-Beamforming_Radio 1_Full RU_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	4.93	21.68	24.46	0.50	313.329	72	C	9953.4	0.0315
5.3G;D1D	5.19	21.73	24.77	0.50	336.512	72	C	9953.4	0.0338

Non-Beamforming_Radio 1_Full RU_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	4.93	24.11	26.89	0.50	548.277	72	C	9953.4	0.0551
5.3G;D1D	5.24	23.36	26.45	0.50	495.450	72	C	9953.4	0.0498

Non-Beamforming_Radio 1_Full RU_2T2S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	4.93	24.23	27.01	0.50	563.638	72	C	9953.4	0.0566
5.3G;D1D	5.24	23.43	26.52	0.50	503.501	72	C	9953.4	0.0506

Non-Beamforming_Radio 1_Full RU_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	4.93	26.9	29.68	0.50	1042.317	72	C	9953.4	0.1048
5.3G;D1D	5.24	23.46	26.55	0.50	506.991	72	C	9953.4	0.0510

Non-Beamforming_Radio 1_Full RU_4T4S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	4.93	27.16	29.94	0.50	1106.624	72	C	9953.4	0.1112
5.3G;D1D	5.24	23.46	26.55	0.50	506.991	72	C	9953.4	0.0510

Non-Beamforming_Radio 2_Full RU_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	5.74	20.87	24.46	0.50	313.329	72	C	9953.4	0.0315
5.3G;D1D	5.77	19.62	23.24	0.50	236.592	72	C	9953.4	0.0238
5.6G;D1D	5.30	20.62	23.77	0.50	267.301	72	C	9953.4	0.0269
5.8G;D1D	4.82	21.1	23.77	0.50	267.301	72	C	9953.4	0.0269

Non-Beamforming_Radio 2_Full RU_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	5.99	23.32	27.16	0.50	583.445	72	C	9953.4	0.0586
5.3G;D1D	6.45	22.4	26.70	0.50	524.807	72	C	9953.4	0.0527
5.6G;D1D	6.41	22.48	26.74	0.50	529.663	72	C	9953.4	0.0532
5.8G;D1D	6.34	23.89	28.08	0.50	721.107	72	C	9953.4	0.0725

**Non-Beamforming_Radio 2_Full RU_2T2S**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	5.99	23.35	27.19	0.50	587.489	72	C	9953.4	0.0590
5.3G;D1D	6.45	22.44	26.74	0.50	529.663	72	C	9953.4	0.0532
5.6G;D1D	6.41	22.91	27.17	0.50	584.790	72	C	9953.4	0.0588
5.8G;D1D	6.34	24.01	28.20	0.50	741.310	72	C	9953.4	0.0745

Non-Beamforming_Radio 2_Full RU_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	6.63	25.15	29.63	0.50	1030.386	72	C	9953.4	0.1036
5.3G;D1D	6.66	22.41	26.92	0.50	552.077	72	C	9953.4	0.0555
5.6G;D1D	6.41	22.96	27.22	0.50	591.562	72	C	9953.4	0.0595
5.8G;D1D	6.34	26.57	30.76	0.50	1336.596	72	C	9953.4	0.1343

Non-Beamforming_Radio 2_Full RU_4T4S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	6.63	25.1	29.58	0.50	1018.591	72	C	9953.4	0.1024
5.3G;D1D	6.66	22.79	27.30	0.50	602.560	72	C	9953.4	0.0606
5.6G;D1D	6.41	23.04	27.30	0.50	602.560	72	C	9953.4	0.0606
5.8G;D1D	6.34	26.85	31.04	0.50	1425.608	72	C	9953.4	0.1433

Non-Beamforming_Scan Radio_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	4.08	24.46	26.39	0.50	488.652	72	C	9953.4	0.0491
5.3G;D1D	3.88	23.41	25.14	0.50	366.438	72	C	9953.4	0.0368
5.6G;D1D	4.30	23.45	25.60	0.50	407.380	72	C	9953.4	0.0409
5.8G;D1D	4.67	25.03	27.55	0.50	638.263	72	C	9953.4	0.0641

Non-Beamforming_Scan Radio_2T2S

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	4.08	24.46	26.39	0.50	488.652	72	C	9953.4	0.0491
5.3G;D1D	3.88	23.47	25.20	0.50	371.535	72	C	9953.4	0.0373
5.6G;D1D	4.30	23.44	25.59	0.50	406.443	72	C	9953.4	0.0408
5.8G;D1D	4.67	24.91	27.43	0.50	620.869	72	C	9953.4	0.0624

**6GHz WLAN_6ID****Non-Beamforming_Radio 1**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
7.0G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267

Non-Beamforming_Radio 3

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
6.4G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
6.7G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
7.0G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267

Non-Beamforming_Scan Radio

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
6.4G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
6.7G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
7.0G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267

6GHz WLAN_6SD**Non-Beamforming_Radio 1**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	5.06	30.43	33.34	0.50	2421.029	72	C	9953.4	0.2433

Non-Beamforming_Radio 3

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
6.7G;D1D	5.56	29.93	33.34	0.50	2421.029	72	C	9953.4	0.2433

Non-Beamforming_Scan Radio

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	6.04	29.45	33.34	0.50	2421.029	72	C	9953.4	0.2433
6.7G;D1D	5.64	29.85	33.34	0.50	2421.029	72	C	9953.4	0.2433

**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	5.10	7.71	10.66	0.50	13.062	72	C	9953.4	0.0013

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	13.11	16.06	0.50	45.290	72	C	9953.4	0.0046

UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
Ultra Wide Band;F1D	-	-	-18.91	0.50	0.014	72	C	9953.4	0.0000
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000

**2.4GHz WLAN****Beamforming_Radio 1**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
2.4G;D1D	6.82	25.11	29.78	0.50	1066.596	72	C	9953.4	0.1072

5GHz WLAN**Beamforming_Radio 1**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	5.69	26.9	30.44	0.50	1241.652	72	C	9953.4	0.1248
5.3G;D1D	5.63	23.46	26.94	0.50	554.626	72	C	9953.4	0.0557

Beamforming_Radio 2

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
5.3G;D1D	10.35	19.08	27.28	0.50	599.791	72	C	9953.4	0.0603
5.6G;D1D	9.83	19.63	27.31	0.50	603.949	72	C	9953.4	0.0607
5.8G;D1D	9.17	25.62	32.64	0.50	2060.630	72	C	9953.4	0.2071

6GHz WLAN 6ID**Beamforming_Radio 1**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
7.0G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267

Beamforming_Radio 3

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
6.4G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
6.7G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267
7.0G;D1D	-	-	27.34	0.50	608.135	72	C	4800.0	0.1267

6GHz WLAN 6SD**Beamforming_Radio 1**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	5.77	29.72	33.34	0.50	2421.029	72	C	9953.4	0.2433

Beamforming_Radio 3

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.2G;D1D	5.91	29.58	33.34	0.50	2421.029	72	C	9953.4	0.2433
6.7G;D1D	5.56	29.93	33.34	0.50	2421.029	72	C	9953.4	0.2433

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:****1. Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (2.4G)+BT+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	6.82	25.11	29.78	0.50	1066.596	72	C	9953.4	0.1072
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;G1D	3.10	25.51	26.46	0.50	496.592	72	C	9953.4	0.0499
2.4G;BT-LE	5.10	7.71	10.66	0.50	13.062	72	C	9953.4	0.0013
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.6417								
Ratio Limit	1								

2. Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (5G)+BT+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	6.82	25.11	29.78	0.50	1066.596	72	C	9953.4	0.1072
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.8G;D1D	4.67	25.03	27.55	0.50	638.263	72	C	9953.4	0.0641
2.4G;BT-LE	5.10	7.71	10.66	0.50	13.062	72	C	9953.4	0.0013
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.6559								
Ratio Limit	1								

3. Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (6G)+BT+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	6.82	25.11	29.78	0.50	1066.596	72	C	9953.4	0.1072
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
6.2G;D1D	6.04	29.45	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;BT-LE	5.10	7.71	10.66	0.50	13.062	72	C	9953.4	0.0013
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.8351								
Ratio Limit	1								

4. Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (2.4G)+802.15.4+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	6.82	25.11	29.78	0.50	1066.596	72	C	9953.4	0.1072
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;G1D	3.10	25.51	26.46	0.50	496.592	72	C	9953.4	0.0499
2.4G;	5.10	13.11	16.06	0.50	45.290	72	C	9953.4	0.0046
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.645								
Ratio Limit	1								

**5. Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (5G)+802.15.4+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	6.82	25.11	29.78	0.50	1066.596	72	C	9953.4	0.1072
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.8G;D1D	4.67	25.03	27.55	0.50	638.263	72	C	9953.4	0.0641
2.4G;	5.10	13.11	16.06	0.50	45.290	72	C	9953.4	0.0046
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.6592								
Ratio Limit	1								

6. Radio 1 (2.4G)+Radio 2 (5G Full)+Radio 3 (6G Full)+Radio 4 (6G)+802.15.4+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	6.82	25.11	29.78	0.50	1066.596	72	C	9953.4	0.1072
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
6.2G;D1D	6.04	29.45	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;	5.10	13.11	16.06	0.50	45.290	72	C	9953.4	0.0046
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.8384								
Ratio Limit	1								

7. Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (2.4G)+BT+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	5.69	26.9	30.44	0.50	1241.652	72	C	9953.4	0.1248
5.8G;D1D	9.17	25.62	32.64	0.50	2060.630	72	C	9953.4	0.2071
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;G1D	3.10	25.51	26.46	0.50	496.592	72	C	9953.4	0.0499
2.4G;BT-LE	5.10	7.71	10.66	0.50	13.062	72	C	9953.4	0.0013
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.6264								
Ratio Limit	1								

8. Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (5G)+BT+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	5.69	26.9	30.44	0.50	1241.652	72	C	9953.4	0.1248
5.8G;D1D	9.17	25.62	32.64	0.50	2060.630	72	C	9953.4	0.2071
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.8G;D1D	4.67	25.03	27.55	0.50	638.263	72	C	9953.4	0.0641
2.4G;BT-LE	5.10	7.71	10.66	0.50	13.062	72	C	9953.4	0.0013
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.6406								
Ratio Limit	1								

**9. Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (6G)+BT+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	5.69	26.9	30.44	0.50	1241.652	72	C	9953.4	0.1248
5.8G;D1D	9.17	25.62	32.64	0.50	2060.630	72	C	9953.4	0.2071
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
6.2G;D1D	6.04	29.45	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;BT-LE	5.10	7.71	10.66	0.50	13.062	72	C	9953.4	0.0013
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.8198								
Ratio Limit	1								

10. Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (2.4G)+802.15.4+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	5.69	26.9	30.44	0.50	1241.652	72	C	9953.4	0.1248
5.8G;D1D	9.17	25.62	32.64	0.50	2060.630	72	C	9953.4	0.2071
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;G1D	3.10	25.51	26.46	0.50	496.592	72	C	9953.4	0.0499
2.4G;	5.10	13.11	16.06	0.50	45.290	72	C	9953.4	0.0046
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.6297								
Ratio Limit	1								

11. Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (5G)+802.15.4+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	5.69	26.9	30.44	0.50	1241.652	72	C	9953.4	0.1248
5.8G;D1D	9.17	25.62	32.64	0.50	2060.630	72	C	9953.4	0.2071
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.8G;D1D	4.67	25.03	27.55	0.50	638.263	72	C	9953.4	0.0641
2.4G;	5.10	13.11	16.06	0.50	45.290	72	C	9953.4	0.0046
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.6439								
Ratio Limit	1								

12. Radio 1 (5G Low)+Radio 2 (5G High)+Radio 3 (6G Full)+Radio 4 (6G)+802.15.4+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	5.69	26.9	30.44	0.50	1241.652	72	C	9953.4	0.1248
5.8G;D1D	9.17	25.62	32.64	0.50	2060.630	72	C	9953.4	0.2071
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
6.2G;D1D	6.04	29.45	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;	5.10	13.11	16.06	0.50	45.290	72	C	9953.4	0.0046
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.8231								
Ratio Limit	1								

**13. Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (2.4G)+BT+UWB**

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	5.77	29.72	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;G1D	3.10	25.51	26.46	0.50	496.592	72	C	9953.4	0.0499
2.4G;BT-LE	5.10	7.71	10.66	0.50	13.062	72	C	9953.4	0.0013
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.7778								
Ratio Limit	1								

14. Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (5G)+BT+UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	5.77	29.72	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.8G;D1D	4.67	25.03	27.55	0.50	638.263	72	C	9953.4	0.0641
2.4G;BT-LE	5.10	7.71	10.66	0.50	13.062	72	C	9953.4	0.0013
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.792								
Ratio Limit	1								

15. Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (6G)+BT+UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	5.77	29.72	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
6.2G;D1D	6.04	29.45	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;BT-LE	5.10	7.71	10.66	0.50	13.062	72	C	9953.4	0.0013
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.9712								
Ratio Limit	1								

16. Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (2.4G)+802.15.4+UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	5.77	29.72	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;G1D	3.10	25.51	26.46	0.50	496.592	72	C	9953.4	0.0499
2.4G;	5.10	13.11	16.06	0.50	45.290	72	C	9953.4	0.0046
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.7811								
Ratio Limit	1								



17. Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (5G)+802.15.4+UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	5.77	29.72	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.8G;D1D	4.67	25.03	27.55	0.50	638.263	72	C	9953.4	0.0641
2.4G;	5.10	13.11	16.06	0.50	45.290	72	C	9953.4	0.0046
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.7953								
Ratio Limit	1								

18. Radio 1 (6G High)+Radio 2 (5G Full)+Radio 3 (6G Low)+Radio 4 (6G)+802.15.4+UWB

Mode	DG (dBi)	Power (dBm)	ERP (dBm)	Tolerance (dB)	Tune-up ERP (mW)	Distance (cm)	Option	TL ERP (mW)	TL Ratio
6.7G;D1D	5.77	29.72	33.34	0.50	2421.029	72	C	9953.4	0.2433
5.2G;D1D	10.36	25.07	33.28	0.50	2387.811	72	C	9953.4	0.2400
6.2G;D1D	5.69	29.8	33.34	0.50	2421.029	72	C	9953.4	0.2433
6.2G;D1D	6.04	29.45	33.34	0.50	2421.029	72	C	9953.4	0.2433
2.4G;	5.10	13.11	16.06	0.50	45.290	72	C	9953.4	0.0046
Ultra Wide Band;F1D	-	-	-18.31	0.50	0.017	72	C	9953.4	0.0000
Sum TL Ratio_C	0.9745								
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————