



RADIO EXPOSURE TEST REPORT

FCC ID : 2AHBN-AP17
Equipment : Wi-Fi 7 Wireless Access Point
Brand Name : Juniper
Model Name : AP17
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 Part 2.1091

The product was received on Oct. 21, 2025, and testing was started from Oct. 21, 2025 and completed on Jan. 03, 2026. 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 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: Sam Chen

Sporton International Inc. Hsinchu Laboratory

No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	5
1.1 EUT General Information	5
1.2 Antenna Information	6
1.3 Table for Radio Function	7
1.4 Accessories	7
1.5 Testing Location	8
2 Maximum Permissible Exposure	9
2.1 Limit of Maximum Permissible Exposure	9
2.2 MPE Calculation Method.....	9
2.3 Calculated Result and Limit.....	10

Photographs of EUT v01



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 13
Issued Date : Feb. 26, 2026
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: Muse Chan



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	For Radio 2: 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) For Scanning Radio 3: 802.11b: DSSS (DBPSK, DQPSK, CCK) 802.11g: OFDM (BPSK, QPSK, 16QAM, 64QAM)
5GHz WLAN	5150-5250 5250-5350 5470-5725 5725-5850	5180-5250 5250-5320 5500-5720 5745-5825	For Radio 1: 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) For Scanning Radio 3: 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM)
6GHz WLAN	5925-7125	5955-7095	For Radio 0: 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM) For Scanning Radio 3: 802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Bluetooth	2400-2483.5	2402-2480	LE: GFSK
IEEE802.15.4	2400-2483.5	2405-2480	O-QPSK



1.2 Antenna Information

Ant.	RF Port	Brand Name	Model Name	Ant. Type	Connector	Gain (dBi)	Modes of Operation
1	1	Juniper	AP17	PIFA	I-PEX	Note 1	WLAN 2.4GHz (Radio 2)
2	2	Juniper	AP17	PIFA	I-PEX		WLAN 5GHz UNII 1-3 (Radio 1)
3	1	Juniper	AP17	PIFA	I-PEX		WLAN 6GHz UNII 5-8 (Radio 0) IEEE 802.15.4 (Radio 4)
4	2	Juniper	AP17	PIFA	I-PEX		WLAN 6GHz UNII 5-8 (Radio 0) Bluetooth (Radio 4)
5	1	Juniper	AP17	PIFA	I-PEX		WLAN 2.4GHz WLAN 5GHz UNII 1-3 WLAN 6GHz UNII 5-8 (Radio 3)

Note 1:

Ant.	Antenna Gain (dBi)								
	WLAN 2.4GHz (Radio 2)			WLAN 5GHz UNII 1-3 (Radio 1)					
	2.45GHz		5.2GHz	5.3GHz		5.6GHz		5.785GHz	
1	2.20		3.25	2.86		3.52		3.57	
2	2.46		3.43	3.43		3.09		3.11	
Ant.	WLAN 6GHz UNII 5-8 (Radio 0)				Bluetooth (Radio 4)	IEEE 802.15.4 (Radio 4)			
	6.175GHz	6.475GHz	6.695GHz	6.995GHz					
3	4.46	3.21	4.02	4.34	-	3.8			
4	5.41	5.51	4.75	4.05	3.4	-			
Ant.	Scanning radio (Radio 3)								
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
5	2.75	2.98	2.89	3.07	2.33	2.96	4.13	2.21	4.07

Directional Gain (dBi)									
Item	WLAN 2.4GHz (Radio 2)	WLAN 5GHz UNII 1-3 (Radio 1)				WLAN 6GHz UNII 5-8 (Radio 0)			
	2.45GHz	5.2GHz	5.3GHz	5.6GHz	5.785GHz	6.175GHz	6.475GHz	6.695GHz	6.995GHz
2T1S	2.67	4.49	5.19	5.54	5.67	7.13	7.06	7.32	6.06
2T2S	2.46	3.43	3.43	3.52	3.57	5.41	5.51	4.75	4.34

Note 2: The above information (excepting Ant. 1-5 antenna (WLAN) gain and directional gain) was declared by Manufacturer.



Note 3: Radio 0~2: Maximum Directional Gain following KDB662911 D03.

Note 4: **For Radio 0:**

6GHz (UNII 5-8) IEEE 802.11ax/be mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 1:

5GHz (UNII 1-3) IEEE 802.11a/n/ac/ax/be mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 2:

2.4GHz IEEE 802.11b/g/n/VHT/ax/be mode (2TX/2RX)

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

For Radio 3 (Scanning radio):

2.4GHz IEEE 802.11b/g mode (1TX/1RX)

5GHz (UNII 1-3) IEEE 802.11a mode (1TX/1RX)

6GHz (UNII 5-8) IEEE 802.11a mode (1TX/1RX)

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

For Radio 4:

Bluetooth and IEEE 802.15.4 mode (1TX/1RX)

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

1.3 Table for Radio Function

Radio \ Function	WLAN 2.4GHz	WLAN 5GHz	WLAN 6GHz	Bluetooth	IEEE 802.15.4
0	-	-	V	-	-
1	-	V	-	-	-
2	V	-	-	-	-
3 (Scanning radio)	V	V	V	-	-
4	-	-	-	V	V

Note 1: For WLAN 2.4GHz: The Radio 2 and Radio 3 (Scanning radio) can't operate at the same frequency simultaneously.

For WLAN 5GHz: The Radio1 and Radio 3 (Scanning radio) can't operate at the same frequency simultaneously.

For WLAN 6GHz: The Radio 0 and Radio 3 (Scanning radio) can't operate at the same frequency simultaneously.

Note 2: The above information was declared by manufacturer.

1.4 Accessories

Bracket*1



1.5 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 ISED.

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 20 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 Calculated Result and Limit

Exposure Environment: General Population / Uncontrolled Exposure

For Radio 0:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.2G;D1D	5.41	-	25.31	0.50	25.81	20	0.07581	1.00000	0.07581
6.4G;D1D	5.51	-	24.88	0.50	25.38	20	0.06866	1.00000	0.06866
6.7G;D1D	4.75	-	25.64	0.50	26.14	20	0.08180	1.00000	0.0818
7.0G;D1D	4.34	-	25.51	0.50	26.01	20	0.07938	1.00000	0.07938

For Radio 1:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
5.2G;D1D	4.49	23.17	27.66	0.50	28.16	20	0.13024	1.00000	0.13024
5.3G;D1D	5.19	22.6	27.79	0.50	28.29	20	0.13419	1.00000	0.13419
5.6G;D1D	5.54	22.6	28.14	0.50	28.64	20	0.14546	1.00000	0.14546
5.8G;D1D	5.67	23.82	29.49	0.50	29.99	20	0.19849	1.00000	0.19849

For Radio 2:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
2.4G;G1D	2.46	22.17	24.63	0.50	25.13	20	0.06482	1.00000	0.06482

For Radio 3:

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
2.4G;G1D	2.75	19.41	22.16	0.50	22.66	20	0.03671	1.00000	0.03671
5.2G;D1D	2.98	19.05	22.03	0.50	22.53	20	0.03562	1.00000	0.03562
5.3G;D1D	2.89	18.73	21.62	0.50	22.12	20	0.03241	1.00000	0.03241
5.6G;D1D	3.07	18.81	21.88	0.50	22.38	20	0.03441	1.00000	0.03441
5.8G;D1D	2.33	18.78	21.11	0.50	21.61	20	0.02882	1.00000	0.02882
6.2G;D1D	2.96	14.41	17.37	0.50	17.87	20	0.01218	1.00000	0.01218
6.4G;D1D	4.13	13.51	17.64	0.50	18.14	20	0.01296	1.00000	0.01296
6.7G;D1D	2.21	15.21	17.42	0.50	17.92	20	0.01232	1.00000	0.01232
7.0G;D1D	4.07	13.55	17.62	0.50	18.12	20	0.01290	1.00000	0.0129

**For Radio 4:**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
2.4G;BT-LE	3.40	8.97	12.37	0.50	12.87	20	0.00385	1.00000	0.00385
802.15.4	3.80	11.25	15.05	0.50	15.55	20	0.00714	1.00000	0.00714

Simultaneous Transmission Analysis Mode:**Mode 1: R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: Bluetooth**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.7G;D1D	4.75	-	25.64	0.50	26.14	20	0.08180	1.00000	0.0818
5.8G;D1D	5.67	23.82	29.49	0.50	29.99	20	0.19849	1.00000	0.19849
2.4G;G1D	2.46	22.17	24.63	0.50	25.13	20	0.06482	1.00000	0.06482
2.4G;G1D	2.75	19.41	22.16	0.50	22.66	20	0.03671	1.00000	0.03671
2.4G;BT-LE	3.40	8.97	12.37	0.50	12.87	20	0.00385	1.00000	0.00385
Sum S/Limit Ratio	0.38567								
Ratio Limit	1								

Mode 2: R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: Bluetooth

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.7G;D1D	4.75	-	25.64	0.50	26.14	20	0.08180	1.00000	0.0818
5.8G;D1D	5.67	23.82	29.49	0.50	29.99	20	0.19849	1.00000	0.19849
2.4G;G1D	2.46	22.17	24.63	0.50	25.13	20	0.06482	1.00000	0.06482
5.2G;D1D	2.98	19.05	22.03	0.50	22.53	20	0.03562	1.00000	0.03562
2.4G;BT-LE	3.40	8.97	12.37	0.50	12.87	20	0.00385	1.00000	0.00385
Sum S/Limit Ratio	0.38458								
Ratio Limit	1								

**Mode 3: R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 6GHz+R4: Bluetooth**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.7G;D1D	4.75	-	25.64	0.50	26.14	20	0.08180	1.00000	0.0818
5.8G;D1D	5.67	23.82	29.49	0.50	29.99	20	0.19849	1.00000	0.19849
2.4G;G1D	2.46	22.17	24.63	0.50	25.13	20	0.06482	1.00000	0.06482
6.4G;D1D	4.13	13.51	17.64	0.50	18.14	20	0.01296	1.00000	0.01296
2.4G;BT-LE	3.40	8.97	12.37	0.50	12.87	20	0.00385	1.00000	0.00385
Sum S/Limit Ratio	0.36192								
Ratio Limit	1								

Mode 4: R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 2.4GHz+R4: IEEE 802.15.4

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.7G;D1D	4.75	-	25.64	0.50	26.14	20	0.08180	1.00000	0.0818
5.8G;D1D	5.67	23.82	29.49	0.50	29.99	20	0.19849	1.00000	0.19849
2.4G;G1D	2.46	22.17	24.63	0.50	25.13	20	0.06482	1.00000	0.06482
2.4G;G1D	2.75	19.41	22.16	0.50	22.66	20	0.03671	1.00000	0.03671
802.15.4	3.80	11.25	15.05	0.50	15.55	20	0.00714	1.00000	0.00714
Sum S/Limit Ratio	0.38896								
Ratio Limit	1								

Mode 5: R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 5GHz+R4: IEEE 802.15.4

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.7G;D1D	4.75	-	25.64	0.50	26.14	20	0.08180	1.00000	0.0818
5.8G;D1D	5.67	23.82	29.49	0.50	29.99	20	0.19849	1.00000	0.19849
2.4G;G1D	2.46	22.17	24.63	0.50	25.13	20	0.06482	1.00000	0.06482
5.2G;D1D	2.98	19.05	22.03	0.50	22.53	20	0.03562	1.00000	0.03562
802.15.4	3.80	11.25	15.05	0.50	15.55	20	0.00714	1.00000	0.00714
Sum S/Limit Ratio	0.38787								
Ratio Limit	1								

**Mode 6: R0: 6GHz+R1: 5GHz+R2: 2.4GHz+R3: 6GHz+R4: IEEE 802.15.4**

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	S Limit (mW/cm ²)	Ratio (S/Limit)
6.7G;D1D	4.75	-	25.64	0.50	26.14	20	0.08180	1.00000	0.0818
5.8G;D1D	5.67	23.82	29.49	0.50	29.99	20	0.19849	1.00000	0.19849
2.4G;G1D	2.46	22.17	24.63	0.50	25.13	20	0.06482	1.00000	0.06482
6.4G;D1D	4.13	13.51	17.64	0.50	18.14	20	0.01296	1.00000	0.01296
802.15.4	3.80	11.25	15.05	0.50	15.55	20	0.00714	1.00000	0.00714
Sum S/Limit Ratio	0.36521								
Ratio Limit	1								

————THE END————