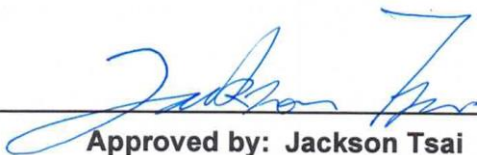


Radio Exposure Evaluation Report

FCC ID : TOR-O405
Equipment : Wireless Access Point
Brand Name : ARISTA
Model Name : O-405 / O-405E
Applicant : Arista Networks, Inc.
5453 Great America Parkway, Santa Clara, CA
95054 USA
Manufacturer : Arista Networks, Inc.
5453 Great America Parkway, Santa Clara, CA
95054 USA
Standard : 47 CFR FCC Part 2 Subpart J, section 2.1091

The product was received on Jul. 21, 2025, and testing was started from Dec. 30, 2025 and completed on Jan. 31, 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 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
No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



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Photographs of EUT V01



History of this test report

Report No.	Version	Description	Issued Date
FA571016	01	Initial issue of report	Mar. 12, 2026
FA571016	02	Remove Band 2 and Band 3 This report is the latest version replacing for the report issued on Mar. 12, 2026	Apr. 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: Barry Hsiao

Report Producer: Debby Hung

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 5725-5850	5180-5240 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)

1.1.2 Antenna Information

O-405

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	VVDN	401-1-03634	PCBA Antenna	I-Pex	2.4G/5G	Radio1/2
2	VVDN	401-1-03634	PCBA Antenna	I-Pex	2.4G/5G	Radio1/2
3	VVDN	401-1-03635	PCBA Antenna	I-Pex	6G	Radio 3
4	VVDN	401-1-03635	PCBA Antenna	I-Pex	6G	Radio 3
5	VVDN	601-1-16517	Metal Stamp Antenna	I-Pex	GPS	-



Ant.	Port	Gain (dBi)									
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	GPS
1	1	6.16	5.7	5.71	5.55	3.97	-	-	-	-	-
2	2	6	5.45	4.84	4.47	4.08	-	-	-	-	-
3	1	-	-	-	-	-	5.02	5.57	5.2	6.28	-
4	2	-	-	-	-	-	3.49	3.75	4.73	5.08	-
5	1	-	-	-	-	-	-	-	-	-	3

Composite Gain (dBi)											
Ant.		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	
1~2	DG [1SS]	8.99	7.58	7.76	6.98	6.41	-	-	-	-	
	DG [2SS]	6.16	5.7	5.71	5.55	4.08	-	-	-	-	
3~4	DG [1SS]	-	-	-	-	-	6.56	7.45	7.29	8.39	
	DG [2SS]	-	-	-	-	-	5.02	5.57	5.2	6.28	

Note 1: The composite gain is derived as KDB 662911 D03 v01 which was used as directional gain. For more detail information, please refer to the Antenna Pattern Report AP571016.

Note 2: The EUT has Five antennas.

For 2.4GHz function:

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

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

For 5GHz function:

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

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

For 6GHz function:

For IEEE 802.11 ax/be mode(2TX/2RX) < **Radio 3** >

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

O-405E

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Radio
1	M-Gear	401-1-03626	Omni-Directional Antenna	N-type	2.4G/5G/6G	Radio1/2/3
2	M-Gear	401-1-03626	Omni-Directional Antenna	N-type	2.4G/5G/6G	Radio1/2/3
3	VVDN	601-1-16517	Metal Stamp Antenna	I-Pex	GPS	-

Ant.	Port	Gain (dBi)									
		2.4G	UNII-1	UNII-2A	UNII-2C	UNII-3	UNII-5	UNII-6	UNII-7	UNII-8	GPS
1	1	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	-
2	2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	-
3	1	-	-	-	-	-	-	-	-	-	3

Note 3: The EUT has Three antennas.

For 2.4GHz function:

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

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

For 5GHz function:

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

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

For 6GHz function:

For IEEE 802.11 ax/be mode(2TX/2RX) < **Radio 3** >

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

Note 4: 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 $N_{ANT} \leq 4$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SI}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$
BF	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SI}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$	$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SI}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$

1.1.3 Table for Multiple Listing

Model Name	Description
O-405	Wi-Fi Internal Antenna
O-405E	Wi-Fi External Antenna

1.1.4 Accessories

Accessories				
Pole mount 1	Brand Name	ARISTA	Model Name	M/E KIT ASSY (BRACKET)
Pole mount 2	Brand Name	ARISTA	Model Name	M/E KIT ASSY (Cable ties)

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

1.2 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	
Conformity Assessment Body Identifier (CABID) TW3785				

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: WLAN 2.4GHz + WLAN 5GHz

2.2 MPE Calculation Method

The MPE was calculated at 23 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

Non-Beamforming

WLAN 2.4GHz_O-405

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	Limit (mW/cm ²)
MPE-FCC 2.4G O405								
2.4G;G1D	6.16	26.12	32.28	0.50	32.78	23	0.37734	1.00000
2.4G;D1D	6.16	25.80	31.96	0.50	32.46	23	0.35053	1.00000

WLAN 2.4GHz_O-405E

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	Limit (mW/cm ²)
MPE-FCC 2.4G O405E								
2.4G;G1D	3.50	26.37	29.87	0.50	30.37	23	0.21664	1.00000
2.4G;D1D	3.50	26.08	29.58	0.50	30.08	23	0.20264	1.00000

WLAN 5GHz_O-405

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	Limit (mW/cm ²)
MPE-FCC 5G O405								
5.2G;D1D	5.70	21.10	26.80	0.50	27.30	23	0.10684	1.00000
5.8G;D1D	4.08	26.59	30.67	0.50	31.17	23	0.26045	1.00000

WLAN 5GHz_O-405E

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	Limit (mW/cm ²)
MPE-FCC 5G O405E								
5.2G;D1D	3.50	21.07	24.57	0.50	25.07	23	0.06393	1.00000
5.8G;D1D	3.50	26.90	30.40	0.50	30.90	23	0.24475	1.00000

Beamforming

WLAN 2.4GHz_O-405

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	Limit (mW/cm ²)
MPE-FCC 2.4G BF O405								
2.4G;D1D	8.99	25.59	34.58	0.50	35.08	23	0.64081	1.00000

WLAN 2.4GHz_O-405E

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	Limit (mW/cm ²)
MPE-FCC 2.4G BF O405E								
2.4G;D1D	6.51	26.06	32.57	0.50	33.07	23	0.40339	1.00000

WLAN 5GHz_O-405

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	Limit (mW/cm ²)
MPE-FCC 5G BF O405								
5.2G;D1D	7.58	21.10	28.68	0.50	29.18	23	0.16471	1.00000
5.8G;D1D	6.41	26.59	33.00	0.50	33.50	23	0.44538	1.00000

WLAN 5GHz_O-405E

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	Limit (mW/cm ²)
MPE-FCC 5G BF O405E								
5.2G;D1D	6.51	21.07	27.58	0.50	28.08	23	0.12786	1.00000
5.8G;D1D	6.51	26.90	33.41	0.50	33.91	23	0.48947	1.00000

Simultaneous Transmission Analysis Mode: WLAN 2.4GHz+WLAN 5GHz

Mode	DG (dBi)	Power (dBm)	EIRP (dBm)	Tolerance (dB)	Tune-up EIRP (dBm)	Distance (cm)	S (mW/cm ²)	Limit (mW/cm ²)
Co-TX Mode: 1	-	-	-	-	-	-	-	-
2.4G;D1D	8.99	25.59	34.58	0.50	35.08	23	0.48455	1.00000
5.8G;D1D	6.51	26.90	33.41	0.50	33.91	23	0.37011	1.00000
Sum S/Limit Ratio	0.85466							
Ratio Limit	1							

—THE END—