No. 25T04Z100772-005

for

WESTALA TECHNOLOGIES INC.

Wi-Fi7 Wall Plate AP

Model Name: WS-AP72W

Hardware Version: Ver.C

Software Version: AP72W_1.0.XX

FCC ID: 2BQVXWSAP72W

Issued Date: 2025-09-09

Note:

The test results in this test report relate only to the devices specified in this report. This report shall not be reproduced except in full without the written approval of CTTL.

Test Laboratory:

CTTL, Telecommunication Technology Labs, CAICT

No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191.

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REPORT HISTORY

Report Number	Revision	Issue Date	Description
25T04Z100772-005	Rev.0	2025-09-02	Initial creation of test report
25T04Z100772-005	Rev.1	2025-09-09	Update values in section7.1/7.2/7.3 on page9 Update client address in section2 on page5 Add simultaneous transmission in section8 on page10

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1 Test Laboratory

1.1 Testing Location

Company Name:	CTTL
Address:	No. 52, Huayuan North Road, Haidian District, Beijing, P. R. China 100191

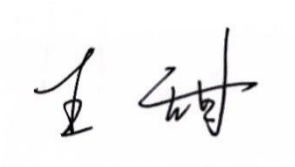
1.2 Testing Environment

Temperature:	Min. = 18°C, Max. = 25°C
Relative humidity:	Min. = 30%, Max. = 70%
Ground system resistance:	< 0.5 Ω
Ambient noise & Reflection:	< 0.012 W/kg

1.3 Project Data

Testing Start Date:	2025-09-02
Testing End Date:	2025-09-02

1.4 Signature

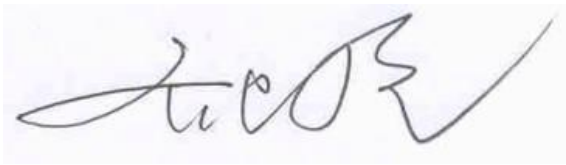


Wang Tian

(Prepared this test report)

Lin Jun

(Reviewed this test report)



Qi Dianyuan

Deputy Director of the laboratory

(Approved this test report)

2 Client Information

2.1 Applicant Information

Company Name:	WESTALA TECHNOLOGIES INC.
Address /Post:	13930 Willow Bend Dr, Frisco TX 75035, United States
Contact:	Robert HAN
Email:	robert.han@westalatech.com
Telephone:	469-274-4814
Fax:	/

2.2 Manufacturer Information

Company Name:	WESTALA TECHNOLOGIES INC.
Address /Post:	13930 Willow Bend Dr, Frisco TX 75035, United States
Contact:	Robert HAN
Email:	robert.han@westalatech.com
Telephone:	469-274-4814
Fax:	/

3 Equipment Under Test (EUT) and Ancillary Equipment (AE)

3.1 About EUT

Description	Wi-Fi7 Wall Plate AP
Model name	WS-AP72W
Operation mode	WIFI2.4G,WIFI5G

3.2 Internal Identification of EUT

EUT ID*	IMEI	HW Version	SW Version
EUT1	/	Ver.C	AP72W_1.0.XX

*EUT ID: is used to identify the test sample in the lab internally.

3.3 Internal Identification of AE

AE ID*	**Description**	**SN**
AE1	POE adapter	/

*AE ID: is used to identify the test sample in the lab internally.

4 Test Methodology_

4.1 Applicable Limit Regulations

ANSI C95.1–1992: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz.

4.2 Applicable Measurement Standards

KDB 447498 D01 General RF Exposure Guidance v06: Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies

Standard for uncontrolled environment requires the RF-exposure value in W/m2 unit, therefore the MPE limit value determined in mW/cm2 unit, should be multiplied by 10 to have the required unit. The MPE limits are the same like on FCC § 1.1301 at table 1.

5 RF Exposure Limit

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

f = frequency in MHz *Plane-wave equivalent power density

Friis transmission formula: $P_d = \frac{P_{out} * G}{4 * \Pi * r^2}$

where

P_d=power density (mW/cm^2)
P_{out} = output power to antenna (mW)
G = gain of antenna (linear scale)
r = distance between antenna and observation point (cm)

6 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

7 Test Results

7.1 The maximum antenna gain

The maximum gain for each frequency band is:

Frequency band	Antenna gain[1]
WIFI2.4G ANT1	1.16
WIFI2.4G ANT2	3.73
WIFI2.4G MIMO	5.49
WIFI5G ANT1	2.55
WIFI5G ANT2	3.58
WIFI5G MIMO	5.91

Note1：The maximum antenna gain value of all channels

7.2 The maximum rated power limits

Maximum output power for antenna:

Frequency band	Maximum Rated Power (dBm)
WIFI2.4G ANT1	27.05
WIFI2.4G ANT2	27.30
WIFI2.4G MIMO	26.63
WIFI5G ANT1	20.22
WIFI5G ANT2	19.91
WIFI5G MIMO	20.79

7.3 Output Power Into Antenna & RF Exposure value at distance 20cm

The worst cases conducted output power for every frequency band is:

Frequency band	Maximum Rated Power (dBm)	Antenna gain	d (cm)	Calculation (mW/cm^2)	Limit (mW/cm^2)
WIFI2.4G ANT1	27.05	1.16	20	0.132	1.000
WIFI2.4G ANT2	27.3	3.73	20	0.252	1.000
WIFI2.4G MIMO	26.63	5.49	20	0.324	1.000
WIFI5G ANT1	20.22	2.55	20	0.038	1.000
WIFI5G ANT2	19.91	3.58	20	0.044	1.000
WIFI5G MIMO	20.79	5.91	20	0.093	1.000

According above test result, the device complies with the exposure requirements.

8 Simultaneous Transmission

The Summation of Exposure Ratio value = WIFI2.4G Antenna (Calculation/Limit)+ WIFI5G Antenna(Calculation/Limit)

Table 8.1: The Simultaneous Transmission for TER

	WIFI Antenna(mW/cm2)				SUM	Limited
	Calculation	Limit	Calculation	Limit		
High SAR value	0.093 WIFI5G	1.000	0.324 WIFI2.4G	1.000	0.417	1.000

END OF REPORT