FCC TEST REPORT
FCC ID: QOBWFN4005M

Product	:	Matter, Wi-Fi, Emergency Flash, In Wall, On/Off Paddle, Switch White
Model Name	:	WFN4005M,81919
Brand	:	JascoPro Series
Report No.	:	NCT24009126E-FC02

Prepared for
Jasco Products Company LLC
10 e memorial road Office oklahoma city OK 73114

Prepared by
Shenzhen NCT Testing Technology Co., Ltd.
A101&2F B2, Fuqiao 6th Area, Xintian Community, Fuhai Street, Baoan District, Shenzhen, People's Republic of China
TEL: 400-8868-419
FAX: 86-755-27790922

TEST RESULT CERTIFICATION

Applicant's name	:	Jasco Products Company LLC
Address	:	10 e memorial road Office oklahoma city OK 73114
Manufacture's name	:	Quang Dong Vu Hao?Electronics Co.,Ltd
Address	:	TOAN MY VILLAGE, VOI TOWN,LANG GIANG DISTRICT, BAC GIANG PROVINCE,VIETNAM
Product name	:	Matter, Wi-Fi, Emergency Flash, In Wall, On/Off Paddle, Switch White
Model name	:	WFN4005M,81919
Test procedure	:	FCC CFR47 Part 1.1307(b)(1)
Test Date	:	Jan. 11, 2024 to Jan. 25, 2024
Date of Issue	:	Jan. 25, 2024
Test Result	:	PASS

This device described above has been tested by NCT, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Test Engineer:

Keven wu

Keven Wu / Engineer

Technical Manager:

Henry wang

Henry Wang / Manager

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Test Items	Test Requirement	Result
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	15.247 (i)	PASS
Remark:		
N/A: Not Applicable		

3 General Information

3.1 General Description of E.U.T.

Product Name	:	Matter, Wi-Fi, Emergency Flash, In Wall, On/Off Paddle, Switch White
Model Name	:	WFN4005M
Additional model	:	81919
Specification	:	802.11b/g/n HT20/HT40
Operation Frequency	:	2412-2462MHz for 802.11b/g/ n(HT20) 2422-2452MHz for 802.11 n(HT40)
Number of Channel	:	11 channels for 802.11b/g/ n(HT20) 7 channels for 802.11n(HT40)
Type of Modulation	:	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Antenna installation	:	PCB antenna
Antenna Gain	:	5.26 dBi
Power supply	:	Input: 125V AC Output: 125V AC 15A
Hardware Version	:	V1.0
Software Version	:	V1.1.12

4 RF Exposure

Test Requirement   :   FCC Part 1.1307(b)(1)

Evaluation Method   :   KDB 447498 D01 General RF Exposure Guidance v06

4.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

4.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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	Electric Field	Magnetic Field	Power Density (S)	Averaging Time
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	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

4.3 MPE Calculation Method

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power Density: } Pd \text{ (W/m}^2) = \frac{E^2}{377}$$

E = Electric field (V/m)

P = Peak 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

$$Pd = \frac{30 \times P \times G}{377 \times d^2} \theta\varphi$$

From the peak EUT RF output power, the minimum mobile separation distance, d=0.2m, as well as the gain of the used antenna, the RF power density can be obtained

4.4 Test Result

Mode	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm2)	Limit of Power Density (mW/cm2)	Result
2462	3.36	16.72	16.72±1	59.156163	0.039512	1	Pass

******THE END REPORT******