



Report No.: PTC24031820501E-FC03

FCC TEST REPORT

FCC ID: 2AQURZW1505V8

Product	:	S2 Z-Wave Plus Power Strip with USB Charging Ports
Model Name	:	ZW1505
Brand	:	ZOOZ,Minoston,Evalogik
Report No.	:	PTC24031820501E-FC03
Prepared for		
NIE-TECH Co., Ltd		
Jinlian commercial center 9001, Jinxiu road No.2, Changan Town,Dongguan City, GuangDongProv., CHINA		
Prepared by		
Precise Testing & Certification Co., Ltd.		
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TEST RESULT CERTIFICATION

Applicant's name : NIE-TECH Co., Ltd
Address : Jinlian commercial center 9001, Jinxiu road No.2, Changan Town, Dongguan City, Guangdong Prov., CHINA
Manufacture's name : NIE-TECH Co., Ltd
Address : Jinlian commercial center 9001, Jinxiu road No.2, Changan Town, Dongguan City, Guangdong Prov., CHINA
Product name : S2 Z-Wave Plus Power Strip with USB Charging Ports
Model name : ZW1505
Test procedure : FCC CFR47 Part 1.1307(b)(1)
Test Date : Apr. 04, 2024 to Apr. 15, 2024
Date of Issue : Apr. 23, 2024
Test Result : PASS

This device described above has been tested by PTC, 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:

A handwritten signature in black ink, appearing to read 'Jack Zhou'.

Jack Zhou / Engineer

Technical Manager:

A handwritten signature in black ink, appearing to read 'Simon Pu'.

Simon Pu / Manager



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2 Test Summary

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	:	S2 Z-Wave Plus Power Strip with USB Charging Ports
Model Name	:	ZW1505
Additional model	:	N/A
Operation Frequency	:	908.40MHz 908.42MHz 916.00MHz 912 MHz 920 MHz
Type of Modulation	:	2FSK for 908.40MHz 2FSK for 908.42MHz 2GFSK for 916.00MHz DSSS OQPSK LR for 912 MHz and 920 MHz
Antenna installation	:	PCB Antenna
Antenna Gain	:	3.55 dBi
Power supply	:	Input: AC120V 15A
Hardware Version	:	1.0
Software Version	:	8.0



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

$$E \text{ (V/m)} = \frac{\sqrt{30 \times P \times G}}{d} \quad \text{Power Density: } P_d \text{ (W/m}^2\text{)} = \frac{E^2}{377}$$

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

$$P_d = \frac{30 \times P \times G}{377 \times d^2} \theta_{\phi}$$

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 RF Output power

Freq. (MHz)	Field strength(max)(dBuV/m)	EIRP (max) (dBm)
908.40	90.17	-5.03
908.42	90.15	-5.05
916.00	90.20	-5.00
Note: EIRP=E-104.8+20logD, Where E is the electric field strength in dBuV/m. EIRP is the equivalent isotropically radiated power in dBm. d is the specified measurement distance in m. where D=3, EIRP=E-95.2.		



4.5 Test Result

Mode	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Tune up tolerance (dBm)	Max Tune Up Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
912MHz	2.26	-0.132	0±1	1.258925	0.000567	0.608000	Pass
920MH	2.26	-0.223	0±1	1.258925	0.000567	0.613333	Pass
908.40MH	2.26	-5.03	-5.00±1	0.398107	0.000179	0.605600	Pass
908.42MH	2.26	-5.05	-5.00±1	0.398107	0.000179	0.605613	Pass
916.00MH	2.26	-5.00	-5.00±1	0.398107	0.000179	0.610667	Pass

Simultaneous SAR Evaluation:

The device can't support simultaneous transmitter.

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