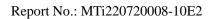


Test Report

Report No.:	MTi220720008-10E2
Date of issue:	2022-07-29
Applicant:	Scanstrut Ltd.
Product:	ROKK Wireless - Nano
Model(s):	SC-CW-11F, SC-CW-11F-U, SC-CW-11F-001, SC-CW-11F-002
FCC ID:	2APUP-SC-CW-11F

Shenzhen Microtest Co., Ltd. http://www.mtitest.com





Instructions

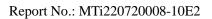
1. This test report shall not be partially reproduced without the written consent of the laboratory.

2. The test results in this test report are only responsible for the samples submitted

3. This test report is invalid without the seal and signature of the laboratory.

4. This test report is invalid if transferred, altered, or tampered with in any form without authorization.

Any objection to this test report shall be submitted to the laboratory within
15 days from the date of receipt of the report.





Contents

1	General Description	5
	1.1 Description of the EUT1.2 Description of test modes1.3 Description of support units	5 5 6
2	Test facilities and accreditations	7
	2.1 Test laboratory	7
3	List of test equipment	8
4	Test result	9
4		
4	4.2 Test setup 4.3 Test Procedures	
4	4.2 Test setup 4.3 Test Procedures	10 10
4		10 10 11
	4.2 Test setup4.3 Test Procedures4.4 Equipment Approval Considerations item 5 b) of KDB 680106 D01 v03r01	10



Test Result Certification					
Applicant:	Scanstrut Ltd.				
Address:	5 Darts Business Park, Clyst St George, Exeter. EX3 0QH, UK				
Manufacturer:	Scanstrut Ltd.				
Address:	5 Darts Business Park, Clyst St George, Exeter. EX3 0QH, UK				
Factory:	Scanstrut Ltd.				
Address:	5 Darts Business Park, Clyst St George, Exeter. EX3 0QH, UK				
Product description					
Product name:	ROKK Wireless - Nano				
Trademark:	SCANSTRUT				
Model name:	SC-CW-11F				
Serial Model:	SC-CW-11F-U, SC-CW-11F-001, SC-CW-11F-002				
Standards:	FCC CFR 47 PART 1, § 1.1310				
Test method:	KDB 680106 v03r01				
Date of Test	Date of Test				
Date of test:	2022-07-25 ~ 2022-07-29				
Test result:	Pass				

Letter. Lan. **Test Engineer** :

(Letter Lan)

Reviewed By: :

loor chen

(Leon Chen)

Approved By: :

Tom Kue

(Tom Xue)



1 General Description

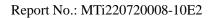
1.1 Description of the EUT

Product name:	ROKK Wireless - Nano			
Model name:	SC-CW-11F			
Series Model:	SC-CW-11F-U, SC-CW-11F-001, SC-CW-11F-002			
Model difference:	SC-CW-11F package is a color box, SC-CW-11F-U package is an envelope bag, SC-CW-11F-002 package is a brown box, SC-CW-11F-001 package is an envelope bag and waterproof device is added, the instruction manual accessories and packaging method are different, the rest are the same			
Electrical rating:	Input: DC 12/24V Wireless output: 5W, 7.5W, 10W			
Accessories:	N/A			
Hardware version:	DHR-004 V1.2			
Software version:	IP6809B01F10W V1.2			
RF specification:				
Operation frequency:	115 kHz – 205 kHz			
Modulation type:	ASK			
Antenna type:	Coil Antenna			

1.2 Description of test modes

All the test modes were carried out with the EUT in normal operation, the final test mode of the EUT was the worst test mode for emission test, which was shown in this report and defined as:

No.	Emission test modes			
Mode 1	Wireless Charger(5W)			
Mode 2	Vireless Charger(7.5W)			
Mode 3	Wireless Charger(10W)			
Mode 4	Stand-by			
The test data only show worst test mode: Mode 3				





1.3 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list								
Description Model Serial No. Ma								
Accumulator	55D23LX	/	CAMEL					
Mobile phone	Find X3	/	OPPO					
Support cable list	•							
Description Length (m) From To								
/	/	/	/					



2 Test facilities and accreditations

2.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No. 7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573



3 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
MTI-E115	Electric and Magnetic Field Probe – Analyzer		EHP-200A	101166	2022/05/05	2023/05/04



4 Test result

4.1.1 Requirement

§1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of FCC part 2.1093 of this chapter.

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)				
(i) Limits for Occupational/Controlled Exposure								
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				
1500-100000			5	<6				
	(ii) Limits for Genera	al Population/Uncontrolled I	Exposure					
0.3-1.34	614	1.63	*(100)	<30				
1.34-30	824/f	2.19/f	*(180/f²)	<30				
30-300	27.5	0.073	0.2	<30				
300-1500			f/1500	<30				
1500-100000			1.0	<30				

Table 1 to §1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

f = frequency in MHz

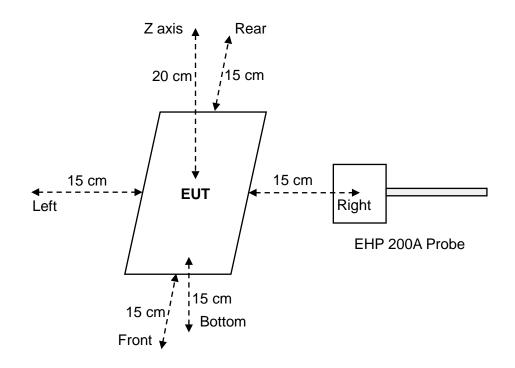
* = Plane-wave equivalent power density

Note 1: Occupational/controlled exposure limits apply in situations in which persons are exposed as a consequence of their employment provided those persons are fully aware of the potential for exposure and can exercise control over their exposure.

Note 2: General population/uncontrolled exposure limits apply in situations in which the general public may be exposed, or in which persons who are exposed as a consequence of their employment may not be fully aware of the potential for exposure or cannot exercise control over their exposure.



4.2 Test setup



4.3 Test Procedures

a. The RF exposure test was performed in anechoic chamber.

b. E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

c. The highest emission level was recorded and compared with limit.

d. The EUT was measured according to the dictates of KDB 680106 v03r01.



4.4 Equipment Approval Considerations item 5 b) of KDB 680106 D01 v03r01

Requirement	Device
1. Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: 115 kHz – 205 kHz
2. Output power from each primary coil is less than or equal to 15 watts	Yes. The maximum output power is: 10W
3. The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	Yes. The EUT has one source primary coils.
4. Client device is placed directly in contact with the transmitter.	Yes. The client device is placed directly in contact with the transmitter.
5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes. Mobile exposure conditions only.
6. The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.	Yes. See the test result in item 4.5.

Page 12 of 13

4.5 Test results

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Test condition 1: Mode 3 operating mode with client device (1 % battery status of client device)

	Probe		E –field (V/m)			H–field (A/m)	
Antenna	Position	Measurement	Limit	Max. Percentage (%)	Measurement	Limit	Max. Percentage (%)
	Z axis	1.2282	614	0.33%	0.0540	1.63	14.11%
	Left	0.7155			0.0608		
1	Right	1.4589			0.0627		
	Front	1.9979		014	0.33 //	0.1201	1.05
	Rear	0.8394		0.0873			
	Bottom	0.9939			0.2300		

Test condition 2: Mode 3 operating mode with client device (50 % battery status of client device)

Antenna	Probe			H-field (A/m)							
Antenna	Position	Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)				
	Z axis	1.2375	614	0.32%	0.0543	1.63	14.31%				
	Left	0.7146			0.0667						
1	Right	1.4749			0.0624						
	Front	1.9934	014	0.32%	0.1259						
	Rear	0.8432							0.0955		
	bottom	0.9994			0.2332						

Test condition 3: Mode 3 operating mode with client device (99 % battery status of client device)

Antenna	Probe Position	E –field (V/m)			H–field (A/m)		
		Measurement	Limit	Percentage (%)	Measurement	Limit	Percentage (%)
1	Z axis	1.2176	614	0.32%	0.0530	1.63	13.65%
	Left	0.7099			0.0510		
	Right	1.4472			0.0600		
	Front	1.9912			0.1158		
	Rear	0.833			0.0841		
	bottom	0.9776			0.2225		



Photographs of the Test Setup

See the Appendix - Test Setup Photos.

Photographs of the EUT

See the Appendix - EUT Photos.

----End of Report----