

RF EXPOSURE Test Report

Product: Snap Charge

Trade Mark: Ohsnap

Model Number: WC-SC3

FCC ID: 2BLYXWCSC3

Prepared for

Ohsnap, Inc.

2131 E Williams St. Suite 108, Apex, NC 27539, United States

Prepared by

Shenzhen HongBiao Certification& Testing Co., Ltd

Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China

Tel.: +86-755-2998 9321 Fax.: +86-755-2998 5110

Website: <http://www.sz-hongbiao.com>

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TEST RESULT CERTIFICATION

Applicant's Name..... : Ohsnap, Inc.
Address : 2131 E Williams St. Suite 108, Apex, NC 27539, United States
Manufacturer's Name : NuVolta Technologies (Hefei) Co., Ltd.
Room 01, F5, Building B4, Phase 1, Zhongan Chuanggu
Address : Technology Park, No 900, West Wangjiang Road, High-tech
Zone, Hefei, Anhui, PRC.

Product description

Product name : Snap Charge
Model Number : WC-SC3

Standards : FCC CFR 47 PART 1 , 1.1310

Test procedure..... : KDB 680106 D01 Wireless Power Transfer v04

This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test..... :

Date (s) of performance of tests..... : Oct. 23, 2024~ Oct. 31, 2024

Test Result..... : **Pass**

Testing Engineer :



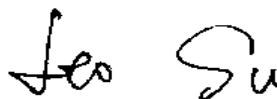
(Z o e S u)

Technical Manager :



(G a r y L u)

Authorized Signatory :



(L e o S u)

[illegible]

1 General Description

1.1 Description of EUT

Product name:	Snap Charge
Model name:	WC-SC3
Series Model:	WC-SC3-XXX-001 (XXX=AAA-ZZZ, representing different colors)
Different of series model:	All models have the same circuit and module, except for the model and appearance color.
Operation frequency:	BPP: 128kHz MPP: 360kHz
Operational mode:	Wireless charging
Modulation type:	ASK
Antenna type:	Coil Antenna
Antenna gain:	0dBi
Hardware version:	V1.1
Software version:	V1.1
Battery:	N/A
Power supply:	Input: 5V=3A, 9V=2.22A (PD adapter) Wireless Output: 12V=1.25A (15W Max)
Adapter information:	N/A

1.2 Test Mode

Pretest Test Mode	Description of Mode
1	AC/DC Adapter + Wireless Output: 5W
2	AC/DC Adapter + Wireless Output: 7.5W
3	AC/DC Adapter + Wireless Output: 15W

1.3 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.4 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Adapter	A2166	/	Apple Inc.
Phone	iPhone 12pro Max	FF2LDX4T60D5H	Apple Inc.

Phone	iPhone 12pro	DNPF9UL20D9L	Apple Inc.
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Note:

- 1. iPhone 12pro for BPP: 110.5-205kHz test mode 1/2
- 2. iPhone 12pro Max for MPP: 360kHz test mode 3

2 Test Facilities and Accreditations

2.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

2.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

2.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
E-field	± 1.06 dB	
H-field	± 0.7 dB	
Temperature	± 1 degree	
Humidity	± 5 %	

2.4 Test Software

Software name	Manufacturer	Model	Version
EHP200-TS	Narda	EHP-200A	Rel 1.95

3 List of Test Equipment

Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E073	Electric and Magnetic Field Analyzer	Narda	EHP-200A	180ZX11013	2024-05-21	2025-05-20

Note: the calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

4 RF Exposure

4.1 Maximum Permissible Exposure

4.1.1. Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm2)	Averaging time(minutes)
(A) 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	6
300-1500	/	/	f/300	6
1500-100000	/	/	5	6
(B) Limits for General Population/Uncontrolled Exposure				
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
1500-100000	/	/	1	30
f = frequency in MHz * = Plane-wave equivalent power density				

4.1.2. Test Procedures

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

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

Record the test results.

KDB 680106 D01 Wireless Power Transfer v04

(1) The power transfer frequency is below 1 MHz.

(2) The output power from each transmitting element (e.g., coil) is less than or equal to 15 watts.

(3) A client device providing the maximum permitted load is placed in physical contact with the transmitter(i.e., the surfaces of the transmitter and client device enclosures need to be in physical contact)

(4) Only § 2.1091-Mobile exposure conditions apply (i.e., this provision does not cover § 2.1093-Portable exposure conditions).

(5) The E-field and H-field strengths, at and beyond 20 cm surrounding the device surface, are demonstrated to be less than 50% of the applicable MPE limit, per KDB 447498, Table 1. These measurements shall be taken along the principal axes of the device, with one axis oriented along the direction of the estimated maximum field strength, and for three points per axis or until a 1/d (inverse distance from the emitter structure) field strength decay is observed. Symmetry considerations may be used for test reduction purposes. The device shall be operated in documented worst-case compliance scenarios

(i.e., the ones that lead to the maximum field components), and while all the radiating structures (e.g., coils or antennas) that by design can simultaneously transmit are energized at their nominal maximum power.

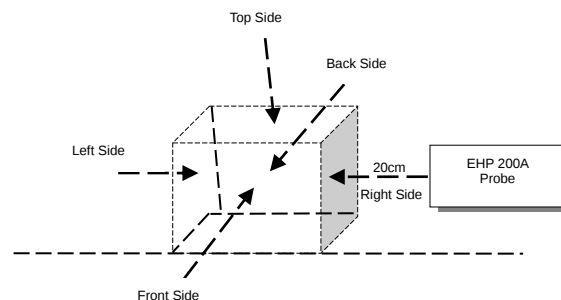
(6) For systems with more than one radiating structure, the conditions specified in (5) must be met when the system is fully loaded (i.e., clients absorbing maximum power available), and with all the radiating structures operating at maximum power at the same time, as per design conditions. If the

design allows one or more radiating structures to be powered at a higher level while other radiating structures are not powered, then those cases must be tested as well. For instance, a device may use three RF coils powered at 5 W, or one coil powered at 15 W: in this case, both scenarios shall be tested.

4.1.3. Equipment Approval Considerations item 5 b) of KDB 680106 D01 Wireless Power Transfer v04

Requirement	Device
1. Power transfer frequency is less than 1 MHz.	Yes. The operating frequencies are: 128kHz, 360kHz
2. Output power from each primary coil is less than or equal to 15 watts	Yes. The maximum output power is: Wireless Output: 5W, 7.5W, 15W
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. EUT has a source primary coil.
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 20 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 4.1.5

4.1.4. Test Setup



4.1.5. Test Result

Test distance: 20cm
Test condition: Mode 2 operating mode with client device (1 %, 50%, 99% battery status of client device)

Maximum permissible Exposure (128kHz)				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	20	1.3533	0.0435
<1%	Left	20	0.9031	0.0489
<1%	Right	20	0.9380	0.0435
<1%	Front	20	0.8875	0.0435
<1%	Back	20	1.2041	0.0435
Limit			614	1.63
Margin Limit (%)			0.22%	3.00%

Maximum permissible Exposure (128kHz)				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	1.3532	0.0423
<50%	Left	20	0.9025	0.0476
<50%	Right	20	0.9376	0.0443
<50%	Front	20	0.8865	0.0421
<50%	Back	20	1.2045	0.0428
Limit			614	1.63
Margin Limit (%)			0.22%	2.92%

Maximum permissible Exposure (128kHz)				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<99%	Top	20	0.8834	0.0465
<99%	Left	20	0.8837	0.0453
<99%	Right	20	0.8829	0.0486
<99%	Front	20	0.8826	0.0476
<99%	Back	20	0.8821	0.0480
Limit			614	1.63
Margin Limit (%)			0.14%	2.98%

Test distance: 20cm

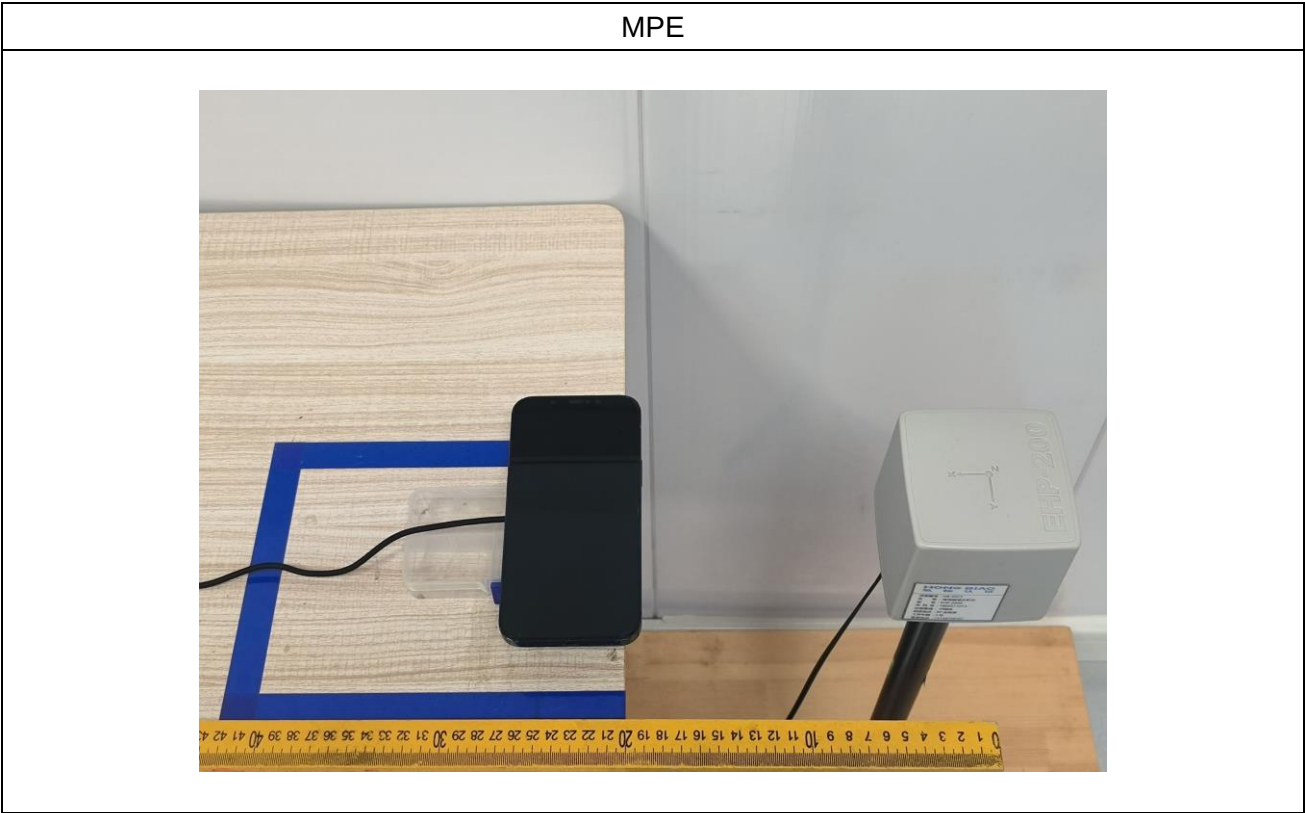
Test condition: Mode 3 operating mode with client device (1 %, 50%, 99% battery status of client device)

Maximum permissible Exposure (360kHz)				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<1%	Top	20	3.1018	0.0454
<1%	Left	20	2.0352	0.0470
<1%	Right	20	2.0137	0.0454
<1%	Front	20	2.2298	0.0454
<1%	Back	20	1.7441	0.0470
Limit			614	1.63
Margin Limit (%)			0.51%	2.94%

Maximum permissible Exposure (360kHz)				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Top	20	3.1017	0.0452
<50%	Left	20	2.0348	0.0465
<50%	Right	20	2.0135	0.0443
<50%	Front	20	2.2296	0.0447
<50%	Back	20	1.7436	0.0478
Limit			614	1.63
Margin Limit (%)			0.51%	2.93%

Maximum permissible Exposure (360kHz)				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<99%	Top	20	3.1023	0.0442
<99%	Left	20	2.0336	0.0453
<99%	Right	20	2.0126	0.0437
<99%	Front	20	2.2287	0.0432
<99%	Back	20	1.7445	0.0469
Limit			614	1.63
Margin Limit (%)			0.51%	2.88%

5 Photographs of the Test Setup



***** END OF REPORT *****