

Nomad Goods, Inc.

MPE ASSESSMENT REPORT

Report Type:

FCC MPE assessment report

Model:

NM01983385

REPORT NUMBER:

210701101SHA-003

ISSUE DATE:

August 13, 2021

DOCUMENT CONTROL NUMBER:

TTRFFCCMPE-01_V1 © 2018 Intertek





Intertek Testing Services Shanghai Building No.86, 1198 Qinzhou Road (North) Caohejing Development Zone Shanghai 200233, China

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www.intertek.com

Report no.: 210701101SHA-003

Applicant: Nomad Goods, Inc.

1187 Coast Village Rd. #638 Santa Barbara, CA 93108, United

Address of Applicant: States

Manufacturer: Nomad Goods, Inc.

1187 Coast Village Rd. #638 Santa Barbara, CA 93108, United

Address of Manufacturer: States

Factory: Zhongshan Zen Factory Ltd.

6th.Industrial Area, Nanlang Town, Zhongshan City, Guangdong, **Address of Factory:**

China

FCC ID: 2AJYRNM01983385

SUMMARY:

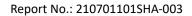
DREDARED RV

The equipment complies with the requirements according to the following standard(s) or Specification:

FCC PART 1 SECTION 1.1310

PREPARED BY:	REVIEWED BY:	
Sky Yang	J.W	
Project Engineer	Reviewer	
Sky Yang	Wakeyou Wang	

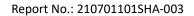
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Revision History

Report No.	Version	Description	Issued Date
210701101SHA-003	Rev. 01	Initial issue of report	August 13, 2021

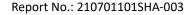




1 GENERAL INFORMATION

1.1 Description of Equipment Under Test (EUT)

Product name:	Base Station Stand Global V2
Type/Model:	NM01983385
Description of EUT:	Base Station Stand Global V2
Rating:	5V == 2A, 9V == 2A, 12V == 1.5A
Category of EUT:	Class B
EUT type:	☐ Table top ☐ Floor standing
Operating Frequency:	127.6 KHz
Antenna Type:	Coil antenna
Sample received date:	June 28, 2021
Date of test:	July 9, 2021 to July 25, 2021





1.2 Description of Test Facility

Name:	Intertek Testing Services Shanghai
Address:	Building 86, No. 1198 Qinzhou Road (North), Shanghai 200233, P.R. China
Telephone:	86 21 61278200
Telefax:	86 21 54262353

The test facility is recognized,	CNAS Accreditation Lab Registration No. CNAS L0139
certified, or accredited by these organizations:	FCC Accredited Lab Designation Number: CN1175
0.80200.0	IC Registration Lab CAB identifier.: CN0051
	VCCI Registration Lab Registration No.: R-14243, G-10845, C-14723, T-12252
	A2LA Accreditation Lab Certificate Number: 3309.02

All tests were sub-contracted.

Shenzhen UnionTrust Quality and Technology Co., Ltd.

Address: Unit D/E of 9/F and 16/F, Block A, Building 6, Baoneng Science and Technology Park,

Longhua District, Shenzhen, China 518109

Telephone: +86 (0) 755 2823 0888

Fax: +86 (0) 755 2823 0886

All tests were sub-contracted at Shenzhen UnionTrust Quality and Technology Co., Ltd, and conducted by Kieron Luo

Reviewed and approved by Wakeyou Wang from Intertek Testing Services Shanghai.

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L9069

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable under the ISO/IEC/EN 17025 to international or national standards. Equipment has been calibrated by accredited calibration laboratories.

IC-Registration No.: 21600-1



Report No.: 210701101SHA-003

TEST REPORT

The 3m Semi-anechoic chamber of Shenzhen UnionTrust Quality and Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 21600-1.

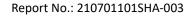
A2LA-Lab Certificate No.: 4312.01

Shenzhen UnionTrust Quality and Technology Co., Ltd. has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC Accredited Lab.

Designation Number: CN1194

Test Firm Registration Number: 259480





2 TEST SPECIFICATIONS

2.1 Standards or specification

FCC PART 1 SECTION 1.1310 KDB 680106 D01 RF Exposure Wireless Charging App v03

2.2 Mode of operation during the test

Within this test report, EUT was tested under all modes and tested under its rating voltage and frequency. Other voltage and frequency are specified if used. The worst data was listed in the report.

2.3 Test peripherals list

Item No.	Name	Band and Model	Description
1	Adapter	NOM∧D, Q183	N/A
2	Mobile phone	Samsung Galaxy 7	N/A

2.4 Record of climatic conditions

Test Item	Temperature (°C)	Relative Humidity (%)	Pressure (kPa)
RF Exposure	25.6	55	101.4

2.5 Instrument list

	Test Equipment List							
Used Equipment Manufacturer Model No. Serial Number Cal. date (mm dd, yyyy) (m								
	Probe	STT	EHP-50F	SZ186-04	July 20, 2021	July 20, 2022		
\boxtimes	Probe holder	STT	TR-01	N/A	N/A	N/A		
\boxtimes	Optical fiber line	STT	L=5M	N/A	N/A	N/A		



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3 MPE Assessment

Test result: Pass

3.1 MPE Assessment Limit

According to 47 CFR §1.1310, system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

Limits for Occupational / Controlled Exposure

Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Times E ² , H ² or S (minutes)
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
1500-100000	/	/	5	6

Limits for General Population/Uncontrolled Exposure

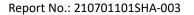
	•	•		
Frequency range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Times E ² , H ² or S (minutes)
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500	/	/	f/1500	30
1,500-100,000	/	/	1.0	30

Note: f = frequency in MHz: * = Plane-wave equivalents power density.

3.2 Testing Procedure

Enabled the EUT to transmit and receive data continue

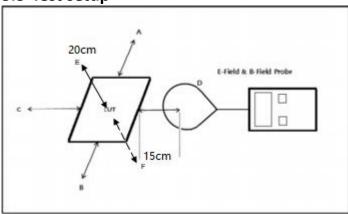
- a. The field strength of both E-field and H-field was measured at 15 cm surrounding the device and 20 cm above the top surface using the equipment list above for determining compliance with the MPE requirements of FCC Part 1.1310.
- b. The RF power density was measured with the battery at 3 different charge conditions: battery at less than 1 %, battery at 50% charger, battery at 99% charger,.
- c. Maximum E-field and H-field measurements were made 15cm from each side of the EUT. Along the side of the EUT and still 15cm away from the edge of the EU T, the field probes were positioned at the location where there is maximum field strength. The maximum E-field and H-field is reported below.
- d. This device uses a wireless charging circuit for power transfer operating at the frequency of X





kHz. Thus, the 300 kHz limits were used: E-field Limit = 614 (V/m); H-field limit = 1.63 (A/m).

3.3 Test setup



Note

The RF exposure test is performed in the shield room

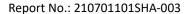
The test distance is between the edge of the charger and the geometric center of probe The aggregate at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated.

3.4 TEST DATA

worst case test data

E-Field Strength

Test Position	Test distance (cm)	Test result (V/m) <1% Battery <50% Battery <99% Battery status status status			Limit (V/m)	Result (Pass/Fail)
A: Right	15	1.49	1.40	1.34	614	Pass
B: Left	15	1.23	1.22	1.20	614	Pass
C: Front	15	1.52	1.51	1.48	614	Pass
D: Back	15	1.18	1.17	1.17	614	Pass
E: Top	20	1.89	1.81	1.77	614	Pass
F: Bottom	15	0.78	0.75	0.72	614	Pass



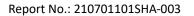


H-Field Strength

Test Position	Test distance (cm)	Test result (A/m) <1% Battery <50% Battery <99% Battery			Limit (A/m)	Result (Pass/Fail)
A: Diabt	15	status 0.0687	status 0.0655	status 0.0638	1.63	Pass
A: Right	15	0.0687	0.0655	0.0638	1.03	Pass
B: Left	15	0.0576	0.0540	0.0537	1.63	Pass
C: Front	15	0.0539	0.0505	0.0505	1.63	Pass
D: Back	15	0.0622	0.0612	0.0606	1.63	Pass
E: Top	20	0.0487	0.0437	0.0431	1.63	Pass
F: Bottom	15	0.0463	0.0415	0.0395	1.63	Pass

Note:

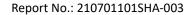
- 1. Test with 15cm distance from the center of the probe(s) to the edge of the device, 20 cm for top (Position E) test
- 2. All simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.
- 3. The device has three coils, one of which is selected to charge when working. The performance of each coil was assessed, and only the worst-case test data reported.





3.5 Equipment Approval Considerations

Requirements of section 5 of KDB680106 D01 RF Exposure Wireless Charging App v03	Yes/No	Description
Power transfer frequency is less than 1 MHz.	Yes	The device operate in the frequency 127.6KHz
Output power from each primary coil is less than or equal to 15 watts.	Yes	The maximum output power of the primary coil is 10W
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 transmission system consists of three coils, and the one coils with high coupling degree is automatically selected to charge when working
Client device is placed directly in contact with the transmitter.	Yes	Client device is placed directly in contact with the transmitter
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Yes	Product is not a portable device.
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 data in section 2.4 of this report





Appendix I: Photograph of test setup

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

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