RF Exposure Evaluation Declaration

FCC ID: 2AKPK-P2C

APPLICANT: Omnicharge. Inc

Application Type: Certification

Product: PORTABLE POWER BANK

Model No.: Omni 20C+

FCC Classification: Part 15 Low Power Transmitter Below 1705 kHz (DCD)

Test Date: June 19 ~ October 25, 2019

Reviewed By: (Kevin Guo)

Approved By: (Robin Wu)

Revision History

Report No.	Version	Description	Issue Date	Note
1906RSU026-U2	Rev. 01	Initial Report	06-18-2020	Valid

CONTENTS

General Information

Applicant:	Omnicharge, Inc
Applicant Address:	21731 Ventura Blvd STE 180, Woodland Hills, California, United States
Manufacturer:	Omnicharge, Inc
Manufacturer Address:	21731 Ventura Blvd STE 180, Woodland Hills, California, United States
Test Site:	MRT Technology (Suzhou) Co., Ltd
Test Site Address:	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

Test Facility / Accreditations

Measurements were performed at MRT Laboratory located in Tian'edang Rd., Suzhou, China.

- **MRT facility is a FCC registered (MRT Designation No. CN1166) test facility with the site description report on file and has met all the requirements specified in ANSI C63.4-2014.**
- **MRT facility is an IC registered (MRT Reg. No. 11384A-1) test laboratory with the site description on file at Industry Canada.**
- **MRT facility is a VCCI registered (R-20025, G-20034, C-20020, T-20020) test laboratory with the site description on file at VCCI Council.**
- **MRT Lab is accredited to ISO 17025 by the American Association for Laboratory Accreditation (A2LA) under the American Association for Laboratory Accreditation Program (A2LA Cert. No. 3628.01) in EMC, Telecommunications, Radio and SAR testing.**

1. PRODUCT INFORMATION

1.1. Equipment Description

Product Name:	PORTABLE POWER BANK
Model No.:	Omni 20C+
Bluetooth Version:	V4.0 Single mode
Wireless Charging:	110kHz ~ 205kHz
Input:	USB-C Port: 5V⎓3A , 9V⎓3A, 12V⎓3A, 15V⎓3A, 20V⎓2.25A
Output	USB-C Port: 5V⎓3A , 9V⎓3A, 12V⎓3A, 15V⎓3A, 20V⎓3A USB-A Port: 5V⎓3A , 9V⎓2A, 12V⎓1.5A
Accessories	
Battery Pack:	Capacity: 20400mAh

2. RF EXPOSURE EVALUATION

2.1. Limits

§1.1310 Radiofrequency radiation exposure limits.

Below sets forth limits for Maximum Permissible Exposure (MPE) to radiofrequency electromagnetic fields

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Averaging Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
0.3-3.0	614	1.63	*100	6
3.0-30	1842/f	4.89/f	*900/f2	6
30-300	61.4	0.163	1.0	6
300-1,500	--	--	f/300	6
1,500-100,000	--	--	5	6
(B) Limits for General Population/ Uncontrolled Exposures				
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
300-1,500	--	--	f/1500	30
1,500-100,000	--	--	1.0	30

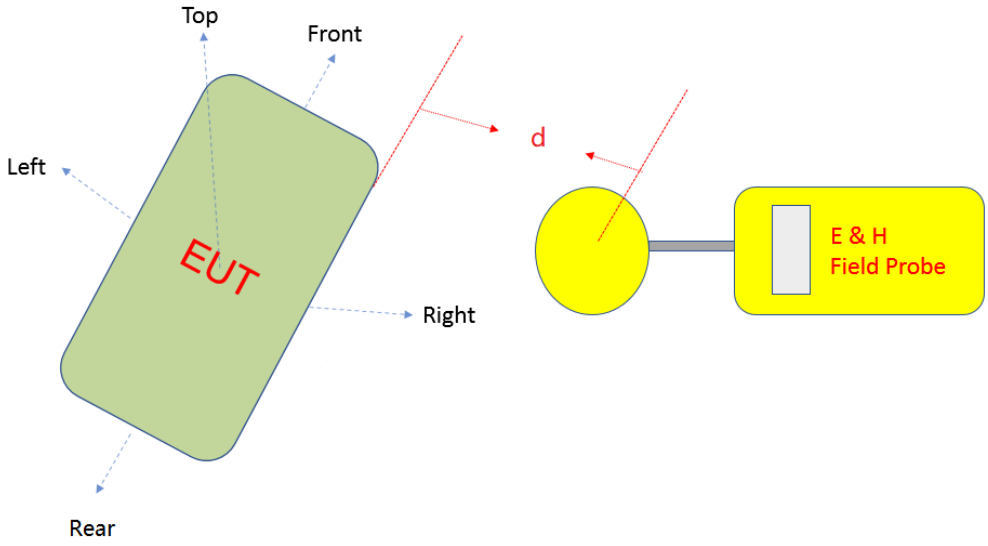
f= Frequency in MHz

* = Plane-wave equivalent power density

2.2. EQUIPMENT APPROVAL CONSIDERATIONS ON KDB 680106 D01v03

EQUIPMENT APPROVAL CONSIDERATIONS	COMPLY
1) Power transfer frequency is less than 1 MHz	Yes. Wireless operating frequency range: 110kHz ~ 145kHz
2) Output power from each primary coil is less than or equal to 15 watts.	Yes.
3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.	Yes. Only single primary.
4) Client device is placed directly in contact with the transmitter.	Yes. Placed directly.
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 at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.	Yes.

2.1. Test Setup



Note:

1. This shall be measured as the distance from the edge of the device to the center of the measurement probe.
2. d is the test distance at cm. Detailed information please refer to clause 2.3 of this report.

2.2. Test System Details

Auxiliary Equipment Used during Test:

Description	Manufacturer	Model No.	Serial No.	Power Cord
Wireless Charger Receiver	Lineprinting	N/A	N/A	N/A

Note: The Wireless Charger Receiver is provided by manufacturer and it can control the EUT to be at the maximum output power state.

2.3. Test Result of RF Exposure Evaluation

Product	PORTABLE POWER BANK
Test Item	RF Exposure Evaluation
Test Mode: Energy transmission	

Electric Field Emissions					
Test Position	Test Distance (d) (cm)	Measure Value (V/m)	Limit (V/m)	50% Limit (V/m)	Result
Front	15	11.65	614	307	Pass
Rear	15	1.34	614	307	Pass
Right	15	1.25	614	307	Pass
Left	15	1.26	614	307	Pass
Top	20	1.46	614	307	Pass
Magnetic Field Emissions					
Test Position	Test Distance (d) (cm)	Measure Value (A/m)	Limit (A/m)	50% Limit (A/m)	Result
Front	15	0.0413	1.63	0.815	Pass
Rear	15	0.0017	1.63	0.815	Pass
Right	15	0.0016	1.63	0.815	Pass
Left	15	0.0015	1.63	0.815	Pass
Top	20	0.0020	1.63	0.815	Pass

The End

3. List of Measuring Instrument

Instrument	Manufacturer	Type No.	Asset No.	Cali. Interval	Cali. Due Date
CARRIES SENSOR	narda	EMR-20	MRTSUE10033	1 year	2020/07/27

Appendix A - EUT Photograph

Refer to “1906RSU026-UE” file.

Appendix B - Test Setup Photograph

Refer to “1906RSU026-UT” file.