

RF EXPOSURE TEST REPORT



| | |
|-----------|--|
| Applicant | Belkin International, Inc. |
| Address | 12045 East Waterfront Drive, Playa Vista, CA 90094 USA |

| | |
|-------------------------------------|--|
| Manufacturer or Supplier | Belkin International, Inc. |
| Address | 12045 East Waterfront Drive, Playa Vista, CA 90094 USA |
| Product | BOOST↑CHARGE™ Magnetic Wireless Charger Stand |
| Brand Name | belkin |
| Model | WIB003 |
| Additional Model & Model Difference | N/A |
| Date of tests | Feb. 23, 2021 ~ Mar. 24, 2021 |

The submitted sample of the above equipment has been tested according to the requirements of the following standard:

- ☒ 47 CFR PART 1, Subpart I, Section 1.1310
- ☒ KDB 680106 D01

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| | |
|---|--|
| Tested by Lucas Chen Project Engineer / EMC Department | Approved by Glyn He Assistant Manager/ EMC Department |
|  |  |
| | Data: Apr. 13, 2021 |

This report is governed by, and incorporates by reference, CPS Conditions of Service as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute you unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.

TABLE OF CONTENTS

| | |
|--|----|
| RF EXPOSURE TEST REPORT | 1 |
| RELEASE CONTROL RECORD | 3 |
| 1. GENERAL INFORMATION | 4 |
| 1.1. GENERAL DESCRIPTION OF EUT | 4 |
| 2. RF EXPOSURE MEASUREMENT | 5 |
| 2.1 LIMITS | 5 |
| 2.2 DESCRIPTION OF SUPPORT UNITS | 5 |
| 2.3 CONFIGURATION OF SYSTEM UNDER TEST | 6 |
| 2.4 TEST SETUP FOR WPC | 6 |
| 2.5 EQUIPMENTS USED DURING TEST | 7 |
| 2.6 TEST POINT DESCRIPTION | 7 |
| 2.7 TEST RESULTS | 8 |
| PHOTOGRAPHS OF THE TEST CONFIGURATION | 10 |



Test Report No.: FS2102WDG0133

RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|---------------|-------------------|---------------|
| FS2102WDG0133 | Original release | Apr. 13, 2021 |

1. GENERAL INFORMATION

1.1. GENERAL DESCRIPTION OF EUT

| | |
|----------------------------------|---|
| FCC ID | K7SWIB003 |
| PRODUCT | BOOST↑CHARGE™ Magnetic Wireless Charger Stand |
| MODEL NO. | WIB003 |
| ADDITIONAL MODEL | N/A |
| POWER SUPPLY | Input: DC 5V or 9V or 12V from USB-C host unit Output: 10W max |
| MODULATION TECHNOLOGY | FSK |
| OPERATING FREQUENCY RANGE | 111KHz ~ 148KHz |
| ANTENNA TYPE | Coil Antenna |
| I/O PORTS | Refer to user's manual |
| CABLE SUPPLIED | USB-C to USB-C cable: Shielded, Non-detachable 2.0m |

NOTES:

- For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
- For the test results, the EUT had been tested with all conditions, but only the worst case was shown in test report.
- Please refer to the EUT photo document (Reference No.: 2102WDG0133) for detailed product photo.
- The EUT can be powered by adapter as list as attach:

| ADAPTER | |
|----------|---|
| BRAND: | N/A |
| MODEL: | A829-120167C-US1 |
| INPUT: | AC 100-240V, 50/60HZ, 0.5A |
| OUTPUT: | 5.0V=3.0A, 9.0V=2.23A, 12.0V=1.67A, 20.0W, 3.3-5.9V=3.0A, 17.7W MAX, 3.3-11.0V=2.0A 20.0W MAX |
| DC LINE: | N/A |

2. RF EXPOSURE MEASUREMENT

2.1 LIMITS

§ 1.1310 The criteria listed in table 1 shall be used to evaluate the environmental impact of human exposure to radiofrequency(RF) radiation as specified in § 1.1307(b), except in the case of portable devices which shall be evaluated according to the provisions of § 2.1093 of this chapter.

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| 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/Controlled Exposures | | | | |
| 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 |
| 1500–100,000 | | | 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 |
| 1500–100,000 | | | 1.0 | 30 |

f = frequency in MHz

* = Plane-wave equivalent power density

NOTE 1 TO TABLE 1: Occupational/controlled 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. Limits for occupational/controlled exposure also apply in situations when an individual is transient through a location where occupational/controlled limits apply provided he or she is made aware of the potential for exposure.

NOTE 2 TO TABLE 1: General population/uncontrolled exposures apply in situations in which the general public may be exposed, or in which persons that are exposed as a consequence of their employment may not be fully aware of the potential for exposure or can not exercise control over their exposure.

Reference KDB 680106 D01 RF Exposure Wireless Charging App v03

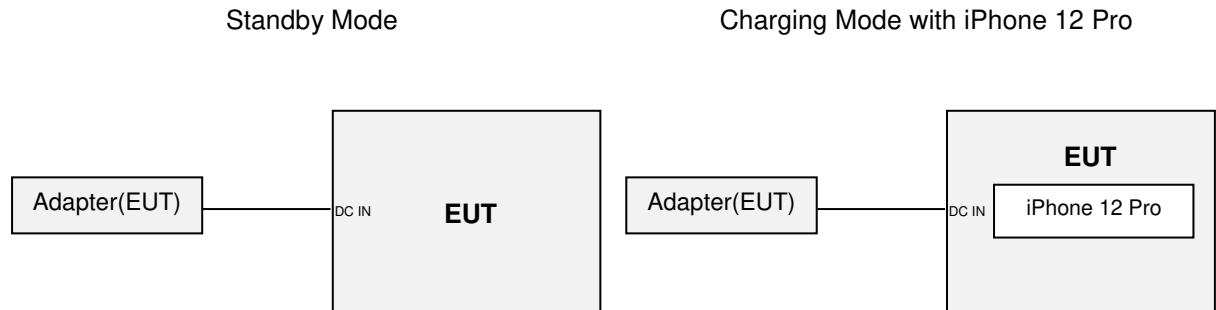
The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

2.2 DESCRIPTION OF SUPPORT UNITS

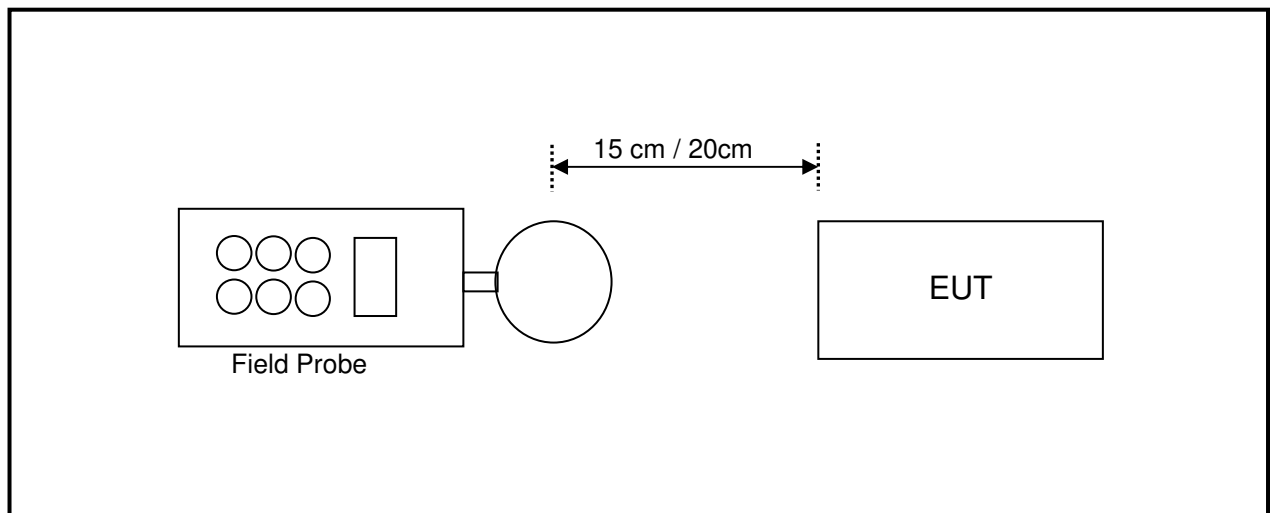
The EUT has been tested with associated equipment below

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|---------------|-------|-----------|------------|--------|
| 1 | iPhone 12 Pro | Apple | A2408 | N/A | N/A |

2.3 CONFIGURATION OF SYSTEM UNDER TEST



2.4 TEST SETUP FOR WPC



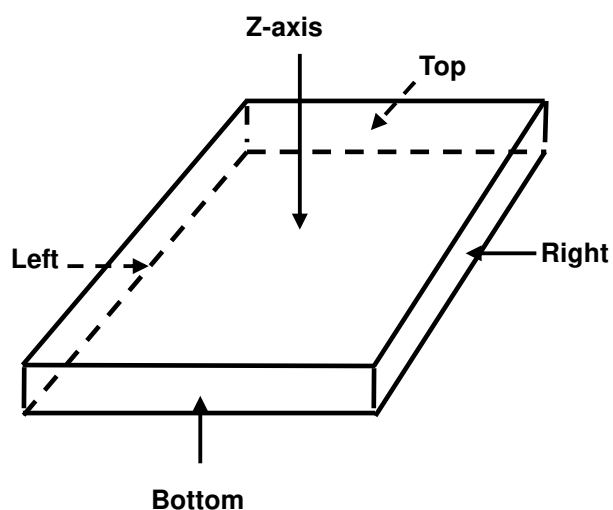
Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device.

2.5 EQUIPMENTS USED DURING TEST

| Item | Test Equipment | Manufacturer | Model No. | Frequency Range | Next Cal. |
|------|-----------------------------|--------------|-----------|-----------------|------------|
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | 7m*4m*3m | NSEMC003 | 2022-03-19 |
| 2 | Narda Broadband Field Meter | Narda | NBM-520 | 100KHz-90GHz | 2021-12-23 |
| 3 | E-Field probe | Narda | EF0691 | 100KHz-6GHz | 2021-12-23 |
| 4 | Exposure Level Tester | Narda | ELT-400 | 1Hz-400KHz | 2021-12-23 |

NOTE: 1. The test was performed in RS chamber.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

2.6 TEST POINT DESCRIPTION



2.7 TEST RESULTS

Standby Mode 1 with USB-C port input + Standby

| E-Field Measurement | | | | | |
|---------------------|--------|---------|---------|---------|---------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max E-field (V/m) | 0.5 | 0.44 | 0.22 | 0.16 | 0.36 |
| Limit (V/m) | 614 | 614 | 614 | 614 | 614 |
| Margin (V/m) | -613.5 | -613.56 | -613.78 | -613.84 | -613.64 |
| 50% Limit (V/m) | 307 | 307 | 307 | 307 | 307 |
| 50% Margin (V/m) | -306.5 | -306.56 | -306.78 | -306.84 | -306.64 |

| H-Field Measurement | | | | | |
|---------------------|--------|--------|--------|--------|--------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max H-field (uT) | 0.221 | 0.22 | 0.219 | 0.22 | 0.23 |
| Max H-field (A/m) | 0.176 | 0.175 | 0.174 | 0.175 | 0.183 |
| Limit (A/m) | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 |
| Margin (A/m) | -1.454 | -1.455 | -1.456 | -1.455 | -1.447 |
| 50% Limit (A/m) | 0.815 | 0.815 | 0.815 | 0.815 | 0.815 |
| 50% Margin (A/m) | -0.639 | -0.640 | -0.641 | -0.640 | -0.632 |

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode2 with EUT USB-C port input + iPhone 12 Pro 10% Charger

| E-Field Measurement | | | | | |
|---------------------|---------|---------|---------|--------|---------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max E-field (V/m) | 1.18 | 0.92 | 1.41 | 0.6 | 1.67 |
| Limit (V/m) | 614 | 614 | 614 | 614 | 614 |
| Margin (V/m) | -612.82 | -613.08 | -612.59 | -613.4 | -612.33 |
| 50% Limit (V/m) | 307 | 307 | 307 | 307 | 307 |
| 50% Margin (V/m) | -305.82 | -306.08 | -305.59 | -306.4 | -305.33 |

| H-Field Measurement | | | | | |
|---------------------|--------|--------|--------|--------|--------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max H-field (uT) | 0.221 | 0.219 | 0.219 | 0.22 | 0.22 |
| Max H-field (A/m) | 0.176 | 0.174 | 0.174 | 0.175 | 0.175 |
| Limit (A/m) | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 |
| Margin (A/m) | -1.454 | -1.456 | -1.456 | -1.455 | -1.455 |
| 50% Limit (A/m) | 0.815 | 0.815 | 0.815 | 0.815 | 0.815 |
| 50% Margin (A/m) | -0.639 | -0.641 | -0.641 | -0.640 | -0.640 |

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode3 with EUT USB-C port input + iPhone 12 Pro 50% Charger

| E-Field Measurement | | | | | |
|---------------------|---------|---------|---------|---------|---------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max E-field (V/m) | 1.17 | 0.91 | 1.38 | 0.57 | 1.68 |
| Limit (V/m) | 614 | 614 | 614 | 614 | 614 |
| Margin (V/m) | -612.83 | -613.09 | -612.62 | -613.43 | -612.32 |
| 50% Limit (V/m) | 307 | 307 | 307 | 307 | 307 |
| 50% Margin (V/m) | -305.83 | -306.09 | -305.62 | -306.43 | -305.32 |

| H-Field Measurement | | | | | |
|---------------------|--------|--------|--------|--------|--------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max H-field (uT) | 0.218 | 0.219 | 0.218 | 0.22 | 0.22 |
| Max H-field (A/m) | 0.174 | 0.174 | 0.174 | 0.175 | 0.175 |
| Limit (A/m) | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 |
| Margin (A/m) | -1.456 | -1.456 | -1.456 | -1.455 | -1.455 |
| 50% Limit (A/m) | 0.815 | 0.815 | 0.815 | 0.815 | 0.815 |
| 50% Margin (A/m) | -0.641 | -0.641 | -0.641 | -0.640 | -0.640 |

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

Charging Mode4 with EUT USB-C port input + iPhone 12 Pro 90% Charger

| E-Field Measurement | | | | | |
|---------------------|---------|---------|---------|---------|---------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max E-field (V/m) | 1.11 | 1.01 | 1.38 | 0.65 | 0.87 |
| Limit (V/m) | 614 | 614 | 614 | 614 | 614 |
| Margin (V/m) | -612.89 | -612.99 | -612.62 | -613.35 | -613.13 |
| 50% Limit (V/m) | 307 | 307 | 307 | 307 | 307 |
| 50% Margin (V/m) | -305.89 | -305.99 | -305.62 | -306.35 | -306.13 |

| H-Field Measurement | | | | | |
|---------------------|--------|--------|--------|--------|--------|
| Distance | 15cm | | | | 20cm |
| EUT Side | Left | Right | Top | Bottom | Z-axis |
| Max H-field (uT) | 0.218 | 0.219 | 0.219 | 0.221 | 0.222 |
| Max H-field (A/m) | 0.174 | 0.174 | 0.174 | 0.176 | 0.177 |
| Limit (A/m) | 1.63 | 1.63 | 1.63 | 1.63 | 1.63 |
| Margin (A/m) | -1.456 | -1.456 | -1.456 | -1.454 | -1.453 |
| 50% Limit (A/m) | 0.815 | 0.815 | 0.815 | 0.815 | 0.815 |
| 50% Margin (A/m) | -0.641 | -0.641 | -0.641 | -0.639 | -0.638 |

Measurements was made from all sides and the top of the primary/client pair, with the 15 cm or 20 cm measured from the center of the probe(s) to the edge of the device. The highest emission level was recorded.

PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).

--- END ---