EXPOSURE REPORT

FCC ID: 2ARRI-FDK-WC-002

Date of issue: Nov. 15, 2018

Report Number: MTi181114E062

Sample Description: Wireless charger

Model(s): FDK-WC-002, WF-WRX001BK

Applicant: Shenzhen Photic Technology Co., Ltd

Address: R1203 12/F Tefa info&Tech Building, Nanshan technology

Park, Nanshan Dist., Shenzhen, China.

Date of Test: Nov. 09, 2018 – Nov. 15, 2018

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com

Table of Contents

| Applicant's name: | Shenzhen Photic Technology Co., Ltd | | | |
|-------------------------|---|--|--|--|
| Address: | R1203 12/F Tefa info&Tech Building, Nanshan technology Park, Nanshan Dist., Shenzhen, China | | | |
| Manufacture's name: | Shenzhen Photic Technology Co., Ltd | | | |
| Address: | R1203 12/F Tefa info&Tech Building, Nanshan technology Park, Nanshan Dist., Shenzhen, China | | | |
| Product name: | Wireless charger | | | |
| Trademark: | Photic | | | |
| Model name: | FDK-WC-002, WF-WRX001BK | | | |
| Standard: | FCC CFR 47 PART 1 , 1.1310 | | | |
| RF Exposure Procedures: | KDB 680106 D01 RF Exposure Wireless Charging App v03 | | | |
| | | | | |

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

| Tested by: | Demilha | | | |
|--------------|--------------------------|---------------|--|--|
| | Demi Mu | Nov. 15, 2018 | | |
| Reviewed by: | Blue. Zherg | | | |
| | Blue Zheng | Nov. 15, 2018 | | |
| Approved by: | Snottohen | | | |
| | Smith Chen Nov. 15, 2018 | | | |

1 General Information

1.1 Description of EUT

| Product name: | Wireless charger |
|----------------------------|---|
| Brand name: | Photic |
| Model name: | FDK-WC-002 |
| Series model: | WF-WRX001BK |
| Deference in serial model: | All the model are the same circuit and RF module, except the color. |
| Operation frequency: | 115–205 kHz |
| Operational mode: | Wireless charging |
| Modulation type: | Load modulation |
| Antenna type: | Coil Antenna (Met 15.203 Antenna requirement) |
| Power source: | DC 5V or 9V from adapter |
| Battery: | N/A |
| Adapter information: | N/A |

1.2 Ancillary equipment list

| Equipment | Model | S/N | Manufacturer |
|--------------|--------------|-----|--------------|
| Adapter | HW-050100E01 | / | / |
| Mobile phone | S8 | / | SAMSUNG |

1.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

| Radiated emission(150kHz~30MHz) | ± 2.5 dB |
|---------------------------------|-----------|
| Radiated emission(30MHz~1GHz) | ± 4.2 dB |
| Radiated emission (above 1GHz) | ± 4.3 dB |
| Temperature | ±1 degree |
| Humidity | ± 5 % |

2 Testing site

| Test Site | Shenzhen Microtest Co., Ltd |
|-----------------------|---|
| Test Site Location | No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China |
| FCC Registration No.: | 448573 |

3 List of test equipment

| Equipment No. | Equipment Name | Manufacturer | Model | Serial No. | Calibration date | Due date |
|------------------|--------------------------|--|-------------|---------------|------------------|------------|
| MTI-E068 | Broadband Field Meter | Narda Safety Test Solutions GmbH | NBM- 520 | D-1699 | 2018/07/13 | 2019/07/12 |
| MTI-E069 | Probe E- Field | Narda Safety Test Solutions | EF0691 | H-0571 | 2018/07/13 | 2019/07/12 |

4 Test Results

1.4 Maximum permissible exposure

1.4.1 Limit

| Frequency range(MHz) | Electric field strength(V/m) | Magnetic field strength(A/m) | Power density(mW/cm2) | Averaging time(minutes) | | |
|--|---|---------------------------------|--------------------------|-------------------------|--|--|
| | (A) Limits fo | r Occupational/Contr | olled 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 | | | | | | |

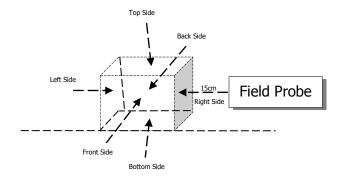
1.4.2 Test Procedures

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.

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

Record the test results.

1.4.3 Test Setup



| (2) Output power from each primary coil is less than or equal to 15 watts. |
|--|
| (Conform) |
| (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. |
| (Conform) |
| (4) Client device is placed directly in contact with the transmitter. |
| (Conform) |
| (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion) |
| (Conform) |
| (6) The aggregate H-field strengths at 15 cm surrounding the device and 20 cm above the top surfaction all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit. |

(1) Power transfer frequency is less than 1MHz.

(Conform)

(Conform)

1.4.4 Test Result

| Maximum permissible Exposure | | | | | |
|------------------------------|------------------|-------------------|---------------|--------------|--|
| Battery levels | Test sides | Test distance(cm) | E -field(V/m) | H-field(A/m) | |
| <1% | Тор | 20 | 2.318 | 0.065 | |
| <1% | Bottom | 15 | 2.227 | 0.061 | |
| <1% | Left | 15 | 2.224 | 0.059 | |
| <1% | Right | 15 | 2.216 | 0.062 | |
| <1% | Front | 15 | 2.221 | 0.048 | |
| <1% | Back | 15 | 2.219 | 0.059 | |
| Limit | | | 614 | 1.63 | |
| | Margin Limit (%) | 0.378(% | 3.988% | | |

| Maximum permissible Exposure | | | | |
|------------------------------|------------|-------------------|---------------|--------------|
| Battery levels | Test sides | Test distance(cm) | E -field(V/m) | H-field(A/m) |
| <50% | Тор | 20 | 2.308 | 0.066 |
| <50% | Bottom | 15 | 2.302 | 0.064 |
| <50% | Left | 15 | 2.301 | 0.056 |
| <50% | Right | 15 | 2.304 | 0.062 |
| <50% | Front | 15 | 2.306 | 0.065 |
| <50% | Back | 15 | 2.303 | 0.063 |
| Limit | | | 614 | 1.63 |
| Margin Limit (%) | | | 0.376% | 4.049% |

| Maximum permissible Exposure | | | | | |
|--------------------------------|------------|-------------------|---------------|--------------|--|
| Battery levels | Test sides | Test distance(cm) | E -field(V/m) | H-field(A/m) | |
| <99% | Тор | 20 | 2.436 | 0.075 | |
| <99% | Bottom | 15 | 2.425 | 0.071 | |
| <99% | Left | 15 | 2.427 | 0.072 | |
| <99% | Right | 15 | 2.432 | 0.065 | |
| <99% | Front | 15 | 2.427 | 0.067 | |
| <99% | Back | 15 | 2.426 | 0.073 | |
| | Limit | 614 | 1.63 | | |
| Margin Limit (%) 0.397% 4.601% | | | | 4.601% | |

1.4.5 MPE Setup photo



----END OF REPORT----