# FCC Test Report

| | | |
|---|---|---|
| **Report No.** | : | **1815C60295816202** |
| **Applicant** | : | **ZONNGOO TECHNOLOGY LIMITED** |
| **Address** | : | **RM D,10/F.,TOWER A BILLION CTR 1 WANG KWONGRDKLN BAYHONGKONG** |
| **Product Name** | : | **Power Bank** |
| **Report Date** | : | **2026-07-13** |

**Shenzhen Anbotek Compliance Laboratory Limited**



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# TEST REPORT

| | | |
|---|---|---|
| Applicant | : | ZONNGOO TECHNOLOGY LIMITED |
| Manufacturer | : | Jiangxi Shengquan New Energy Technology Co., Ltd |
| Product Name | : | Power Bank |
| Model No. | : | 5MC1 |
| Trade Mark | : | N/A |
| Rating(s) | : | Battery Energy:10000mAh;<br>Rate Capacity:5000mAh(5V⎓2A);<br>Wireless Output:15W Max;<br>USB-C Input:5V⎓3A, 9V⎓2A,12V⎓1.5A,18W Max;<br>USB-C Output:5V⎓3A, 9V⎓2.22A,12V⎓1.67A,20W Max. |
| **Test Standard(s)** | **:** | **FCC Part 1.1310*, 1.1307(b), FCC Part 2.1093** |
| **Test Method(s)** | **:** | **KDB680106 D01 RF Exposure Wireless Charging Apps v04*<br>October 25, 2023 TCB Workshop** |

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 1.1307 & FCC Part 2.1093 & KDB680106 D01 & TCB Workshop, October 25, 2023 requirements.
This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

| | |
|---|---|
| Date of Receipt | 2026-06-05 |
| Date of Test | 2026-06-05 to 2026-06-18 |
| Prepared By | Yuki Long<br>(Yuki Long) |
| Approved & Authorized Signer | Jules Guo<br>(Jules Guo) |


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# Revision History

| Report Version | Description | Issued Date |
|---|---|---|
| R00 | Original Issue. | 2026-07-13 |
| | | |
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# 1. General Information

## 1.1. Client Information

| | | |
|---|---|---|
| Applicant | : | ZONNGOO TECHNOLOGY LIMITED |
| Address | : | RM D,10/F.,TOWER A BILLION CTR 1 WANG KWONGRDKLN BAYHONGKONG |
| Manufacturer | : | Jiangxi Shengquan New Energy Technology Co., Ltd |
| Address | : | Ganzhou City, Jiangxi Province, Quannan County, Hainuo Road, 5G Intelligent Industrial Park, 3 buildings, 1st floor and 7 buildings |
| Factory | : | Jiangxi Shengquan New Energy Technology Co., Ltd |
| Address | : | Ganzhou City, Jiangxi Province, Quannan County, Hainuo Road, 5G Intelligent Industrial Park, 3 buildings, 1st floor and 7 buildings |

## 1.2. Description of Device (EUT)

| | | |
|---|---|---|
| Product Name | : | Power Bank |
| Model No. | : | 5MC1 |
| Trade Mark | : | N/A |
| Test Power Supply | : | DC 12V via Adapter,DC 3.7V battery inside |
| Test Sample No. | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) |
| Adapter | : | N/A |
| **RF Specification** | | |
| Operation Frequency | : | 112-205kHz |
| Modulation Type | : | ASK |
| Antenna Type | : | Inductive loop coil Antenna |
| **Remark:** 1) All of the RF specification are provided by customer. 2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual. | | |

## 1.3. Auxiliary Equipment Used During Test

| Title | Manufacturer | Model No. | Serial No. |
|---|---|---|---|
| Wireless charging load | Shenzhen Ouju Technology Co., Ltd. | CD2577 | / |
| Xiaomi 67W adapter | Xiaomi | MDY-13-ES | WA622091100375G |
| IPHONE 14 | IPHONE | MQ0M3CH/A | CLKXM6H94J |


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## 1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Modes | Descriptions |
|---|---|
| TM1 | Adapter+WPT Mode (15W 1% Load) |
| TM2 | Adapter+WPT Mode (15W 50% Load) |
| TM3 | Adapter+WPT Mode (15W 99% Load) |
| TM4 | WPT Mode (15W 1% Load) |
| TM5 | WPT Mode (15W 50% Load) |
| TM6 | WPT Mode (15W 99% Load) |
| TM7 | Adapter+WPT Mode (10W 1% Load) |
| TM8 | Adapter+WPT Mode (10W 50% Load) |
| TM9 | Adapter+WPT Mode (10W 99% Load) |
| TM10 | WPT Mode (10W 1% Load) |
| TM11 | WPT Mode (10W 50% Load) |
| TM12 | WPT Mode (10W 99% Load) |
| TM13 | Adapter+WPT Mode (7.5W 1% Load) |
| TM14 | Adapter+WPT Mode (7.5W 50% Load) |
| TM15 | Adapter+WPT Mode (7.5W 99% Load) |
| TM16 | WPT Mode (7.5W 1% Load) |
| TM17 | WPT Mode (7.5W 50% Load) |
| TM18 | WPT Mode (7.5W 99% Load) |
| TM19 | Adapter+WPT Mode (5W 1% Load) |
| TM20 | Adapter+WPT Mode (5W 50% Load) |
| TM21 | Adapter+WPT Mode (5W 99% Load) |
| TM22 | WPT Mode (5W 1% Load) |
| TM23 | WPT Mode (5W 50% Load) |
| TM24 | WPT Mode (5W 99% Load) |
| TM25 | Standby Mode |
| TM26 | WPT Mode (1% battery on phone) |
| TM27 | WPT Mode (50% battery on phone) |
| TM28 | WPT Mode (99% battery on phone) |


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## 1.5. Test Equipment List

| Item | Equipment | Manufacturer | Model No. | Last Cal. | Cal. Interval |
|---|---|---|---|---|---|
| 1 | Electric and Magnetic field Analyzer | NARDA | EHP-200A | 2025-10-14 | 1 Year |

## 1.6. Measurement Uncertainty

| Parameter | Uncertainty |
|---|---|
| Magnetic Field Reading(A/m) | +/-0.04282(A/m) |
| Electric Field Reading(V/m) | +/-0.03679(V/m) |


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## 1.7. Description of Test Facility

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

**FCC-Registration No.: 279531**

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

**Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.
Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

## 1.8. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
4. This document may not be altered or revised in any way unless done so by Anbotek and all revisions are duly noted in the revisions section.
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7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.
8. “*”denotes that this* test standard is not included in CNAS accredited scope.

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# 2. Measurement and Result

## 2.1. 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
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

## 2.2. Test Setup

1) H-field data are taken along all three axes the device, from 0 cm to 20 cm, in 2 cm minimum increment measured from the edge of the device, with one axis coincident with the axis of the main coil.

2) “Large size” probes may prevent the measurement of E- and/or H-fields near the surface of the radiating structure (e.g., a WPT source coil), as in the example shown in Figure 1.

If the center of the probe sensing element is located more than 5 mm from the probe outer surface, the field strengths need to be estimated through modeling for those positions that are not reachable. The estimates may be done either via numerical calculation, or via analytic model: e.g., approximated formulas for circular coils, dipoles, etc., may be acceptable if it is shown that the model is applicable for the design parameters considered. A typical example is the use of a quasi-static approximation formula for a low-frequency magnetic field source.

These estimates shall include points spaced no more than 2 cm from each other. Thus, in the example of Figure 1, at least the estimates at 0 cm2 and 2 cm are required, while only one point would not be sufficient. In addition, the model needs to be validated through the probe measurements for the two


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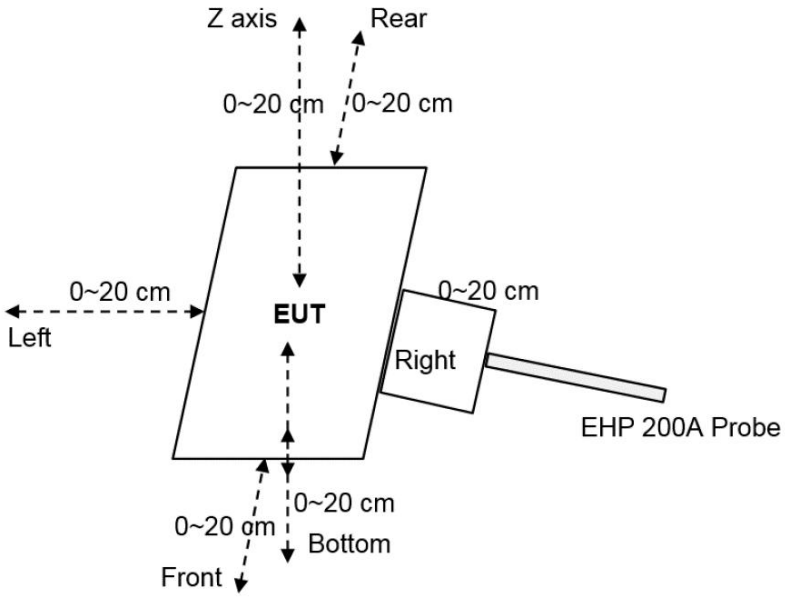
closest points to the device surface, and with 2-cm increments, as indicated in Figure 1. In that example, the same model must also be applied to the 4 cm and 6 cm positions, and then compared with the measured data, for validation purposes. The validation is considered sufficient if a 30% agreement between the model and the (E- and/or H-field) probe measurements is demonstrated. If such a level of agreement cannot be shown, a more accurate model (and/or a smaller probe) shall be used.



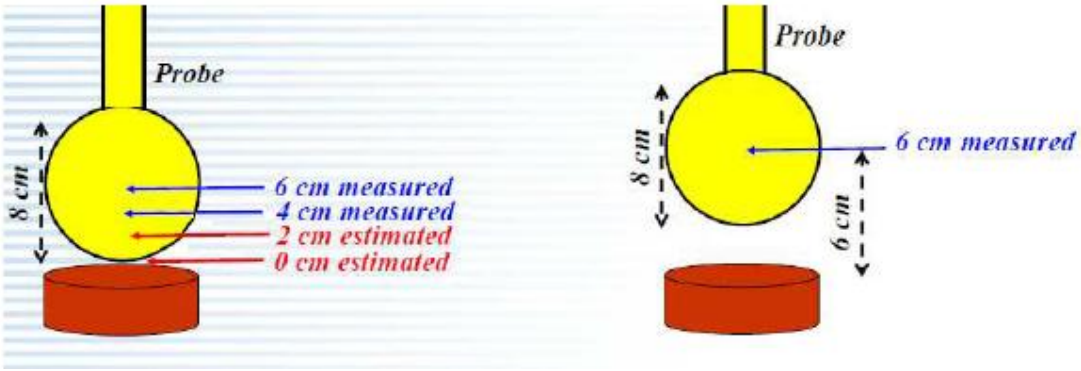




Figure 1

## 2.3. Test Procedure

1) The RF exposure test was performed in anechoic chamber.
2) The measurement probe was placed at required test distance (from 0 cm to 20 cm, in 2 cm minimum increment) which is between the edge/top surface of the charger and the center of the probe.

and the measurement probe was placed at required test distance 15cm and 20cm which is between the edge of the charger and the geometric center of probe.

3) The highest emission level was recorded and compared with limit as soon as measurement of each points (Left, Right, Front, Rear, Z axis, Bottom) were completed.
4) The EUT was measured according to the dictates of TCB Workshop, October 25, 2023 and KDB 680106 D01 v04.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Remark;
The EUT's test position Left, Right, Front, Rear, Top, Bottom is valid for the E and H field measurements.

## 2.4. Test Result

2.4.1. Estimated method for portable RF Exposure condition:

According to Calibration information and specification about EHP200A, The Probe EHP200A's sensitive elements center are 8mm below the external surface, and the dimensions is 92x92x109 mm. So the actual 0cm field strengths need to be estimated for the positions that are not reachable. The Extrapolated Value Calculation Method please Refer to below formula). And the result of test distance 6cm~20cm was measured value.

| Probe | Length | Width | Height |
|---|---|---|---|
| | 109mm | 92mm | 92mm |

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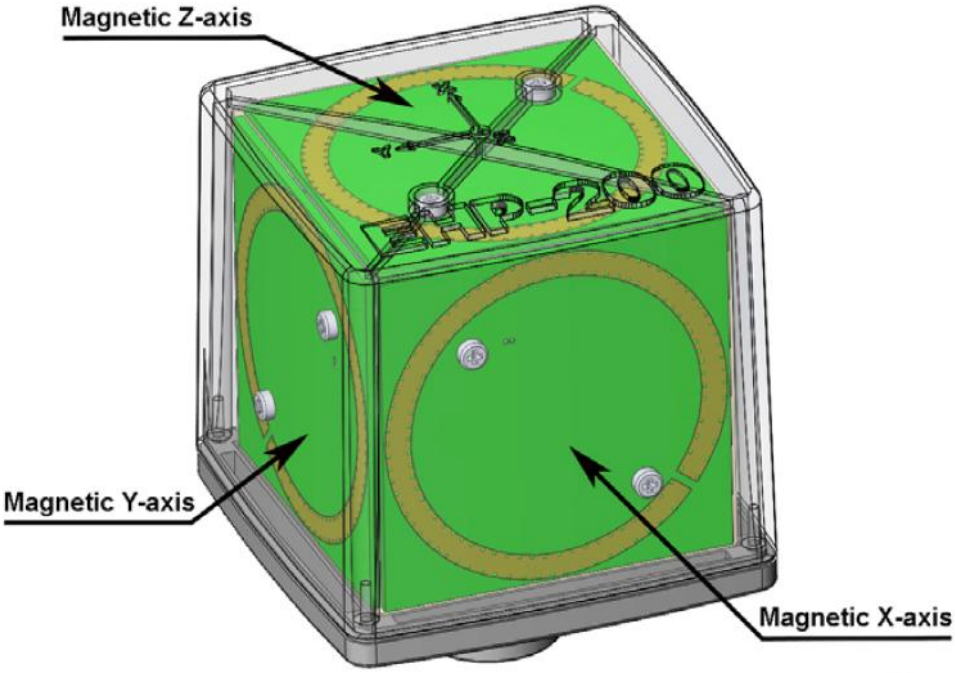
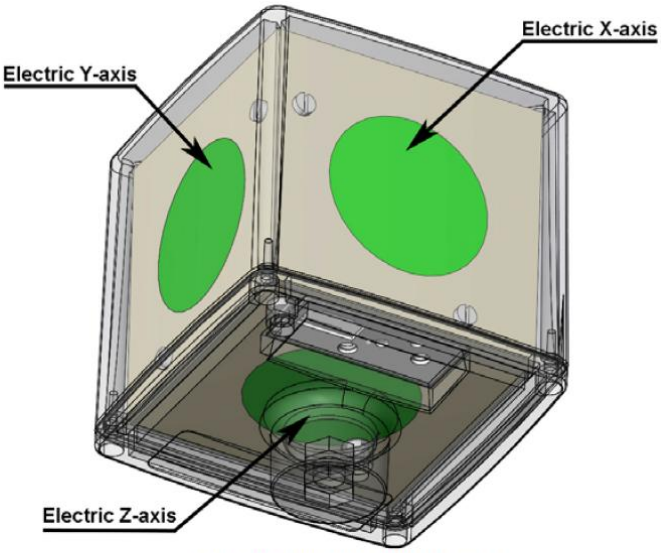


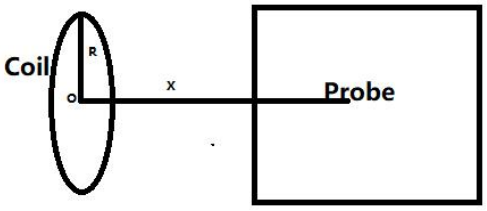




EHP-200A/EHP-200AC axes

The sensitive elements are located approximately 8 mm below the external surface

We use Biot-Savart formula theory to estimate the strength of the magnetic field that the measuring instrument cannot measure. According to Biot-Savart formula:

**Top & Bottom Side:**





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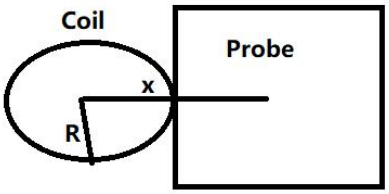
$$B = \frac{\mu_0 * I * N * R^2}{2 * (R^2 + x^2)^{3/2}}$$

**Front, left, right & rear Side:**



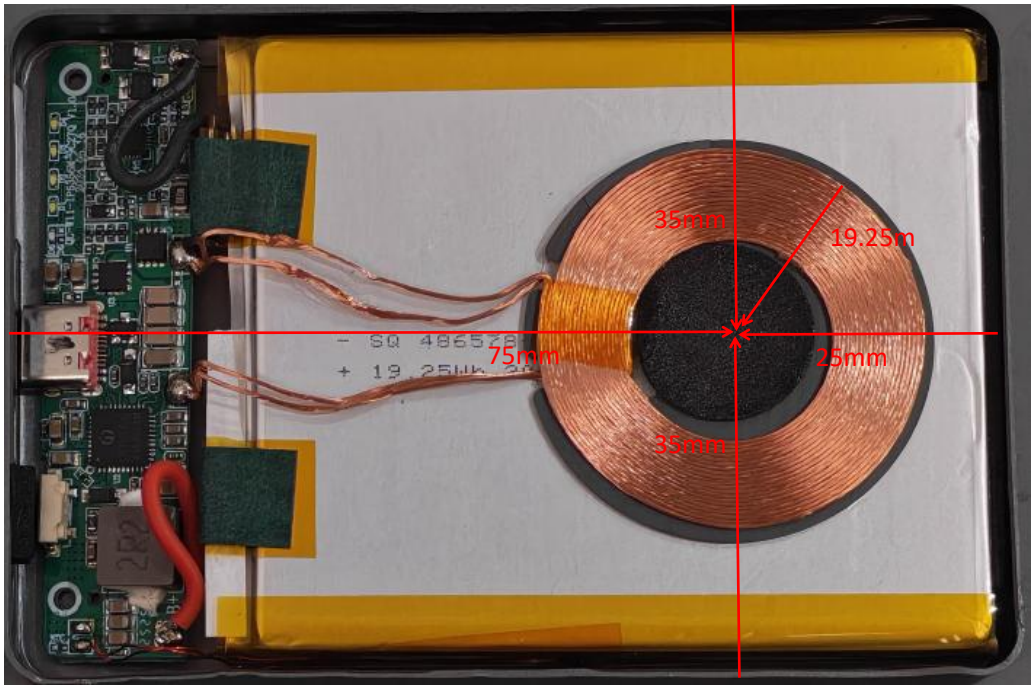

$$B = \frac{\mu_0 * I * N}{2 * x}$$

**B**: means H-field value;

**$\mu_0$** is space permeability; $\mu_0=4\pi*10^{-7}$;

**I**: A current element passing through a coil;

**R**: means the Radius of coil, the minimum R=37mm/2=18.5mm=0.0185m , EUT photos shows below.




Location(s)- coli to theouter surface of theenclosure(s)

Emitter to top: 1±0.1mm

Emitter to bottom: 9±0.2mm

Emitter to left: 15.75±0.02mm

Emitter to right: 15.75±0.02mm

Emitter to front: 5.75±0.02mm

Emitter to back: 55.75±0.02mm

**Test distance:** The distance from the sensing element of the probe to the edge of the device surface.

**x**: means the evaluated point to the coil center (For top & bottom side: x=test distance; For other side:



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x=test distance+R)

**N**: Number of turns, According to provided “Antenna specification” files: N=10.

For validation purposes: If the value to show a **30% agreement** between the mode and the (E- and/or H-field) probe measurements for the two closest points to the device surface, and with 2cm increments. Then this extrapolation method is reasonable.

Note: The percent ratio of agreement is the difference between the estimated and measured values divided by the average of the estimated and measured values.

EUT is a loop/coil emitting structure, so E-field not required. Just recorded the H-field value.

2.4.3. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

| Temperature: | 24.8 °C | Humidity: | 50 % | Atmospheric Pressure: | 101 kPa |
|---|---|---|---|---|---|

**Between the edge/top surface of the charger and the center of probe**

| Distance(x)(mm) | Result(A/m) | | | | | | | Limit(A/m) | Limit(%) |
|---|---|---|---|---|---|---|---|---|---|
| | Type | Top | Bottom | Left | Right | Front | back | | |
| 0 | Estimate | 0.6283 | 0.0040 | 0.0504 | 0.0402 | 0.0346 | 0.1691 | 1.63 | / |
| 20 | Estimate | 0.1850 | 0.0020 | 0.0276 | 0.0266 | 0.0229 | 0.0830 | 1.63 | / |
| 40 | Estimate | 0.0744 | 0.0013 | 0.0190 | 0.0199 | 0.0172 | 0.0464 | 1.63 | / |
| Agreement(%) | Calculated | 14.0000 | 2.4000 | 3.7000 | 3.0000 | 4.2000 | 10.0000 | / | 30 |
| 60 | Estimate | 0.0650 | 0.0011 | 0.0168 | 0.0179 | 0.0162 | 0.0428 | / | |
| 60 | Measured | 0.0365 | 0.0010 | 0.0145 | 0.0159 | 0.0137 | 0.0285 | 1.63 | / |
| Agreement(%) | Calculated | 11.6000 | 2.6000 | 3.4000 | 3.1000 | 3.0000 | 8.4000 | / | 30 |
| 80 | Calculated | 0.0585 | 0.0010 | 0.0156 | 0.0169 | 0.0152 | 0.0395 | / | / |
| 80 | Measured | 0.0364 | 0.0009 | 0.0136 | 0.0149 | 0.0135 | 0.0281 | 1.63 | / |
| 100 | Measured | 0.0359 | 0.0008 | 0.0131 | 0.0145 | 0.0130 | 0.0273 | 1.63 | / |
| 120 | Measured | 0.0355 | 0.0008 | 0.0127 | 0.0137 | 0.0125 | 0.0266 | 1.63 | / |
| 140 | Measured | 0.0351 | 0.0007 | 0.0125 | 0.0132 | 0.0121 | 0.0263 | 1.63 | / |
| 160 | Measured | 0.0340 | 0.0004 | 0.0118 | 0.0128 | 0.0114 | 0.0158 | 1.63 | / |
| 180 | Measured | 0.0336 | 0.0004 | 0.0114 | 0.0126 | 0.0109 | 0.0154 | 1.63 | / |
| 200 | Measured | 0.0328 | 0.0004 | 0.0019 | 0.0121 | 0.0104 | 0.0142 | 1.63 | / |

Note:


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(1)All the situation (full load, half load and empty load) has been tested, only the worst situation (full load 5W) was recorded in the report.

(2)All three axes the device has been tested, only the worst results reported.



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# APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_MPE

# APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

# APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

---------- End of Report ----------


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