FCC Test Report

Report No.	:	**1812C50421212502**
Applicant	:	**JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD**
Address	:	**3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province, 528429, China**
Product Name	:	**Magnetic Power Bank**
Report Date	:	**2025-11-20**

Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Manufacturer	:	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Product Name	:	Magnetic Power Bank
Model No.	:	MPBS10
Trade Mark	:	N/A
Rating(s)	:	Input: 5V⎓2A Type-C Output: 5V⎓2A Wireless Output: 5W Battery Capacity: DC 3.7V, 5000mAh

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**

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 & Part 2.1093 & KDB680106 D01, 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 2025-08-18

Date of Test 2025-08-18 to 2025-08-28

Prepared By (Cecilia Chen)

Approved & Authorized Signer (Hugo Chen)

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Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2025-11-20

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1. General Information

1.1. Client Information

Applicant	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Address	3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province, 528429, China
Manufacturer	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Address	3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province, 528429, China
Factory	JMTEK TECHNOLOGY(ZHONGSHAN) CO., LTD
Address	3F B3 and 3F B4 Chuangzhi Science Park, No.22 Xingpu Avenue East, Huangpu Town, Zhongshan City, Guangdong Province, 528429, China

1.2. Description of Device (EUT)

Product Name	:	Magnetic Power Bank
Model No.	:	MPBS10
Trade Mark	:	N/A
Test Power Supply	:	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.		

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1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Apple Phone	Apple	iPhone 12	DNPDJC7T0DYF

1.4. Description of Test Modes

Pretest Modes	Descriptions
TM1	Adapter+WPT Mode (5W 1% Load)
TM2	Adapter+WPT Mode (5W 50% Load)
TM3	Adapter+WPT Mode (5W 99% Load)
TM4	WPT Mode (5W 1% Load)
TM5	WPT Mode (5W 50% Load)
TM6	WPT Mode (5W 99% Load)
TM7	Standby Mode

1.5. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Electric and Magnetic field Analyzer	NARDA	EHP-200A	180ZX10202	2024-10-15	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.
5. Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
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.

The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

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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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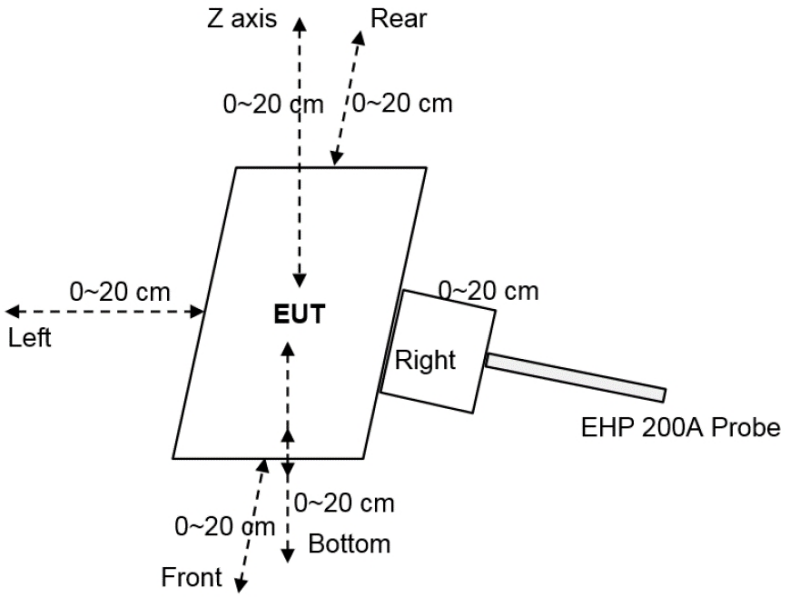
closest points to the device surface, and with 2-cm increments, as indicated in Figure 1. In that example, the same model must also be applied to the 4 cm and 6 cm positions, and then compared with the measured data, for validation purposes. The validation is considered sufficient if a 30% agreement 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.



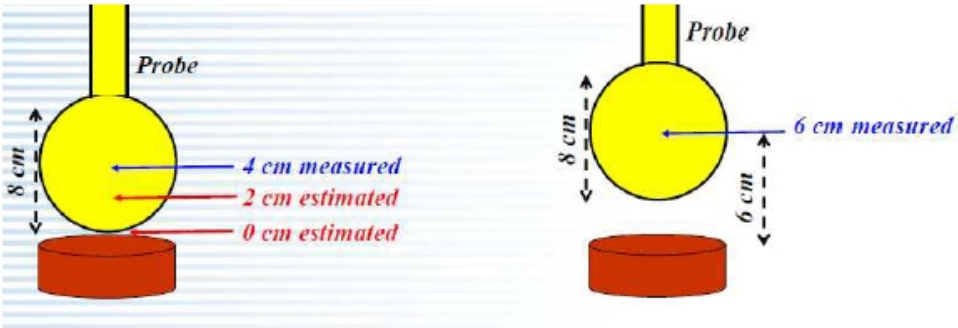


Figure 1

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 and KDB 680106 D01 v04.

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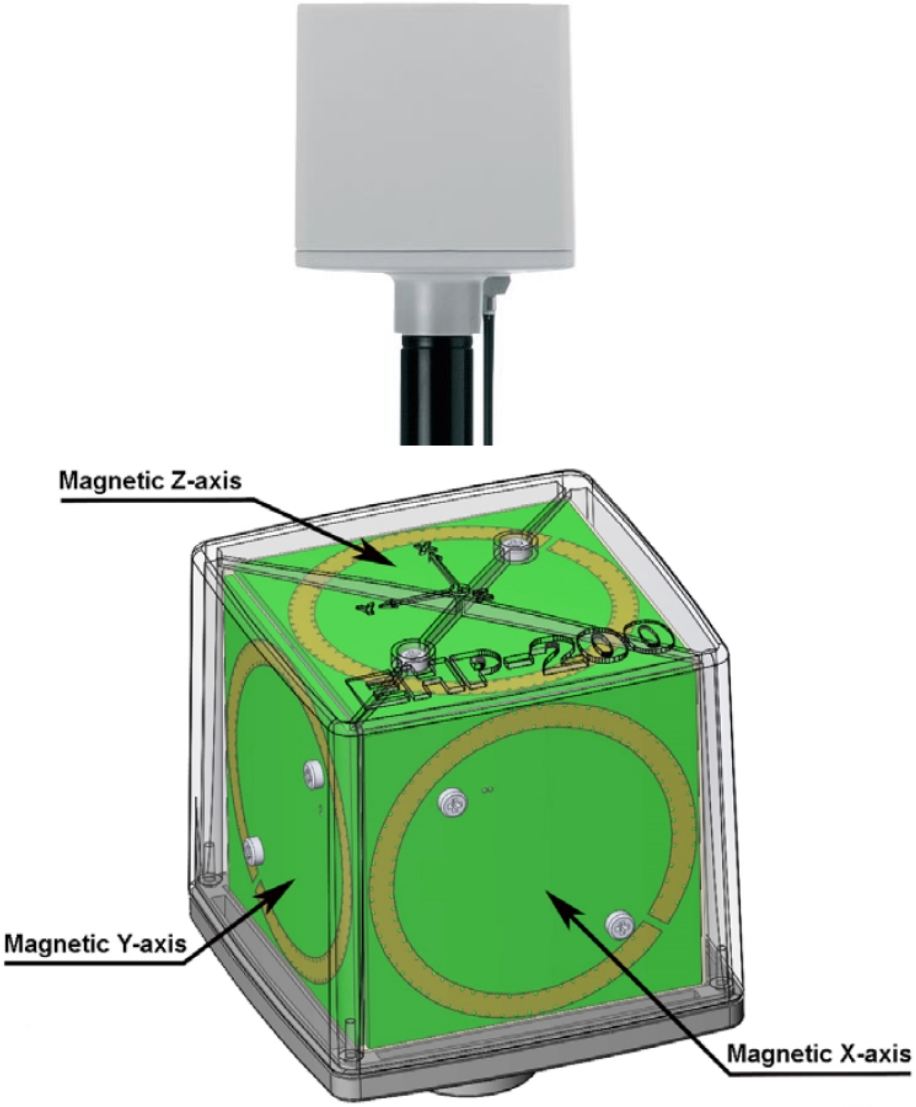
Remark;
The EUT's test position Left, Right, Front, Rear, Top, Bottom is valid for the E and H field measurements.

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 2cm~20cm was measured value.

Probe	Length	Width	Height
	109mm	92mm	92mm



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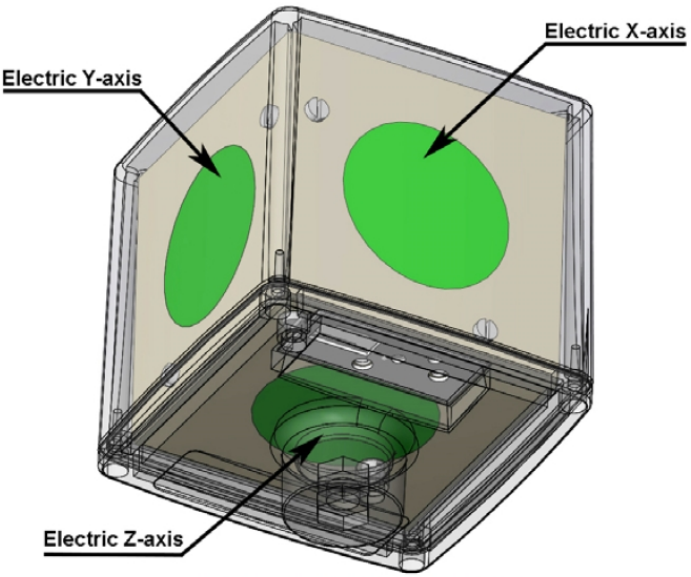
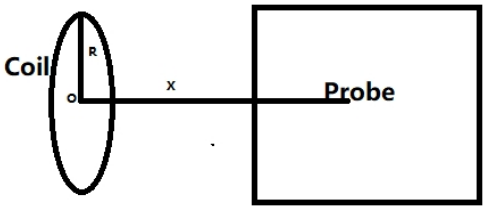


EHP-200A/EHP-200AC axes

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

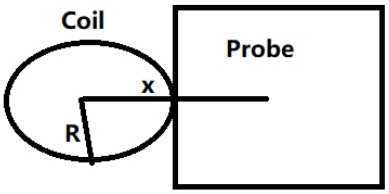
We use Biot-Savart formula theory to estimate the strength of the magnetic field that the measuring instrument cannot measure. According to Biot-Savart formula:

Top & Bottom Side:



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

Front, left, right & rear Side:



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

B: means H-field value;

μ_0 is space permeability; $\mu_0=4\pi*10^{-7}$;

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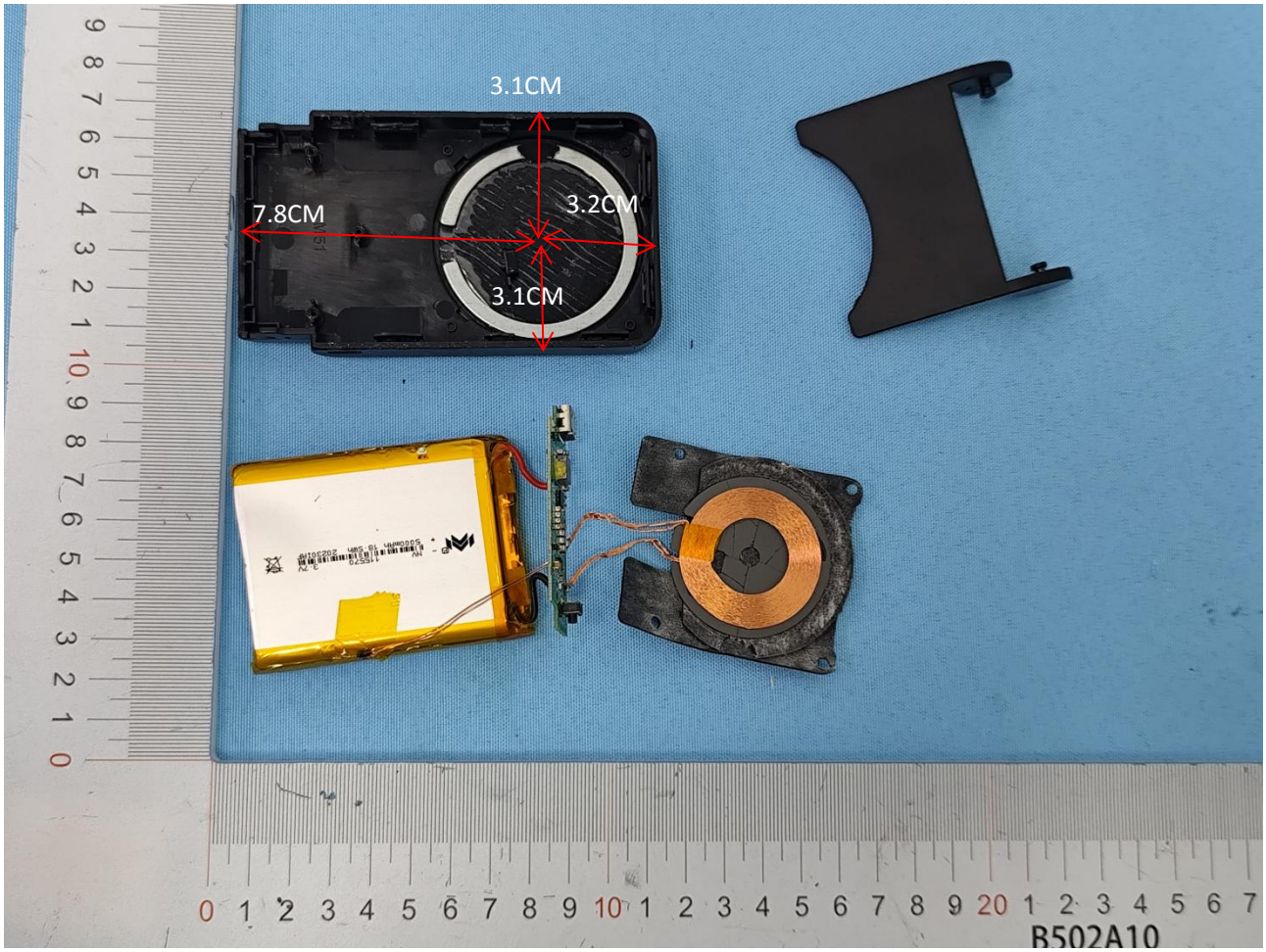
I：A current element passing through a coil；

R：means the Radius of coil, the minimum R=40mm/2=20mm=0.02m , EUT photos shows below.



Location(s)- coli to theouter surface of theenclosure(s)
Transmitter to Top: 3+0.3mm
Transmitter to Bottom: 10±0.3mm
Transmitter to Left: 31±1mm
Transmitter to Right: 31±1mm
Transmitter to Front: 78±1mm
Transmitter to Rear: 32±1mm

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: 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.

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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.

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

Temperature:	23.6 °C	Humidity:	51 %	Atmospheric Pressure:	101 kPa

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

H-Field Strength								
Test distance	Battery power	Test Position Left	Test Position Right	Test Position Rear	Test Position Front	Test Position Top	Test Position Bottom	Limits Test (A/m)
0cm Estimated	1%	1.0151	0.9815	0.5080	0.8421	0.3266	0.2538	1.63
2cm Estimated	1%	0.1398	0.1465	0.0760	0.1205	0.1250	0.1100	1.63
Maximum Agreement for 2cm Estimated: 20.43% (Within 30%)								
2cm Measured	1%	0.1267	0.1225	0.0634	0.1051	0.1153	0.0896	1.63
4cm Estimated	1%	0.0536	0.0538	0.0299	0.0446	0.0410	0.0373	1.63
Maximum Agreement for 4cm Estimated: 29.31% (Within 30%)								
4cm Measured	1%	0.0414	0.0434	0.0225	0.0357	0.0316	0.0278	1.63
6cm	1%	0.0226	0.0227	0.0126	0.0188	0.0145	0.0132	1.63
8cm	1%	0.0137	0.0132	0.0076	0.0124	0.0073	0.0069	1.63
10cm	1%	0.0102	0.0094	0.0058	0.0089	0.0051	0.0048	1.63
12cm	1%	0.0100	0.0090	0.0055	0.0088	0.0050	0.0043	1.63
14cm	1%	0.0087	0.0086	0.0054	0.0086	0.0047	0.0042	1.63
16cm	1%	0.0085	0.0083	0.0051	0.0082	0.0046	0.0040	1.63
18cm	1%	0.0084	0.0081	0.0048	0.0079	0.0043	0.0039	1.63
20cm	1%	0.0080	0.0078	0.0047	0.0075	0.0041	0.0035	1.63

Note:

(1) Position E is top side.

(2) All the situation (full load, half load and empty load) has been tested, only the worst situation (full load15W) was recorded in the report.

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

(4) All positions have been tested, only display photos of Position E and A in the report.

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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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