

Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 1 of 11

# **FCC Test Report**

Client Name : Mei Shun He Electronic Limited

301, 8th Building, No.69 Xikeng Road, Xikeng

Client Address : Community, Fucheng Street, Longhua District,

518110, Shenzhen City, China.

Product Name : Wireless Charger

Report Date : Nov. 04, 2022

Shenzhen Anbotek Compliance Laboratory Limited



www.anbotek.com.cn





Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 2 of 11

# Contents

1. General Information			And		5
1.1. Client Information	Anbo	by.	Moter	Yun Gr	5
1.2. Description of Device (EUT)		Anti	botek	Anbo.	5
1.3. Auxiliary Equipment Used Dui	ring Test	ek Anbo.	Works, Works,	k Pupo <sub>le</sub> ,	6
1.4. Test Equipment List	bo. h.	, otok 1910.	ie. Vur		6
1.5. Measurement Uncertainty	Anbore An		hotek Anb		6
1.6. Description of Test Facility	upotek.	Anbo.	uote <sup>k</sup>	upose. V	7
2. Measurement and Result			Vu.	Kupo <sub>tek</sub>	8
2.1. Requirements	Vu.	,,botek	Anbe	r wotek	8
2.2. Test Setup	Anbe	y	Anbore	Yu.,	9 °
2.3. Test Procedure	otek Anbor	P.U.	ek "nbote"	Anbo	9
2.4. Test Result		oter Aups		tek Anbo	9
APPENDIX I TEST SETUP PHOTO	GRAPH	otek on	por All	, sek	11
APPENDIX II EXTERNAL PHOTOG	RAPH	br.,	hopoter V	VD- NA	11
APPENDIX III INTERNAL PHOTOG	RAPH				11/4





Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 3 of 11

# TEST REPORT

Applicant : Mei Shun He Electronic Limited

Manufacturer : Mei Shun He Electronic Limited

Product Name : Wireless Charger

Model No. : WI085, WI085003

Trade Mark : N.A.

Rating(s) Input: 5V=3A, 9V=2.22A, 12V=1.5A Output: 5.0W/7.5W/10.0W/15.0W

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : KDB680106 D01 RF Exposure Wireless Charging Apps v03

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 & KDB680106 D01 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 Oct. 24, 2022

Date of Test Oct. 24~Nov. 03, 2022

Prepared By \_\_\_\_\_(Ella Liang)

Approved & Authorized Signer (Kingkong Jin)







Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 4 of 11

# **Revision History**

Report Version Descr			Description		Is	sued Date		
An	R00	k Aupok	ak An	Original Issu	e <sub>nořek</sub>	unboten No	ov. 04, 2022	Anbotek
- N	Anbo, Anbo	otek Ani	otek	Anbotek	Anborek	Aupotek	Anbotek	Anbor
otek	Anbotek A	'upoter	Anbabotek	Anbotek	Anbo.	k Anbotel	Anbote	ek Vur





Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 5 of 11

# 1. General Information

# 1.1. Client Information

Applicant	: Mei Shun He Electronic Limited
Address	301, 8th Building, No.69 Xikeng Road, Xikeng Community, Fucheng Street, Longhua District, 518110, Shenzhen City, China.
Manufacturer	: Mei Shun He Electronic Limited
Address	301, 8th Building, No.69 Xikeng Road, Xikeng Community, Fucheng Street, Longhua District, 518110, Shenzhen City, China.
Factory	: Mei Shun He Electronic Limited
Address	301, 8th Building, No.69 Xikeng Road, Xikeng Community, Fucheng Street, Longhua District, 518110, Shenzhen City, China.

# 1.2. Description of Device (EUT)

Product Name		Wireless Charger
Model No.	:	WI085, WI085003 (Note: All samples are the same except the model number, so we prepare "WI085" for test only.)
Trade Mark	:	N.A. Anborek Anborek Anborek Anborek Anborek Anborek
Test Power Supply	:	AC 120V, 60Hz for adapter
Test Sample No.		1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter		N/A otek Anbotek Anbotek Anbotek Anbotek Anbotek
WPT:		
Operation Frequency	:	110.1~205KHz
Modulation Type		ASK Anborek Anborek Anborek Anborek
Antenna Type		Inductive loop coil Antenna
Antenna Gain(Peak)		0 dBi (Provided by customer)

**Remark:** 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.







Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 6 of 11

#### 1.3. Auxiliary Equipment Used During Test

Description	Rating(s)
Adapter	M/N: AD651P Input: 100-240V~1.5A, 50-60Hz Output: 5V—3A, 9V—3A, 10V—5A, 12V—3A, 15V—3A, 20V—3.25A
TOLO. TUT	Output: 57 5A, 97 5A, 107 5A, 127 5A, 157 5A, 207 5.25A
Mobile Phone	iPhone 12

### 1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
Anbo Arto	Electric and Magnetic field	NARDA	EHP-200A	180ZX10202	Nov. 12, 2021	1 Year
Ar	Analyzer	abotek A	upore Air	otek Anbot	an Anb	k abotek

#### 1.5. Measurement Uncertainty

Magnetic Field Reading(A/m)		+/-0.04282(A/m)	Anbotek	Anbotek	Anbotek A
Electric Field Reading(V/m)	•••	+/-0.03679(V/m)	Anbotek	Anbotek	Anbo.





Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 7 of 11

#### 1.6. Description of Test Facility

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

#### FCC-Registration No.: 184111

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. 184111.

#### ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A.

#### **Test Location**

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102





Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 8 of 11

# 2. Measurement and Result

#### 2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- 1) Power transfer frequency is less that 1 MHz
- 2) Output power from each primary coil is less than or equal to 15 watts.
- 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
- 4) Client device is inserted in or placed directly in contact with the transmitter
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
- 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.

Limits For Maximum Permissible Exposure (MPE)

	Mo. No.	760.	and the	MO.
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	:
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	o-
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	1	1	f/1500	30
1500-100,000	1	1	1.0	30

F=frequency in MHz

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).



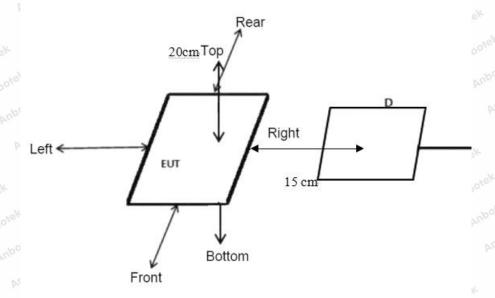


<sup>=</sup>Plane-wave equivalent power density



Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 9 of 11

#### 2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

#### 2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance 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
- (A, B, C, D, E) were completed.(A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

Remark; The EUT's test position A, B, C, D and E is valid for the E and H field measurements.

#### 2.4. Test Result

- 2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.
- 1) Power transfer frequency is less that 1 MHz
- The device operate in the frequency range 110.1-205KHz.
- 2) Output power from each primary coil is less than 15 watts
  - The maximum output power of the primary coil is 15W.
- 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

Shenzhen Anbotek Compliance Laboratory Limited

Code:AB-RF-05-b

Hotline
400-003-0500

www.anbotek.com.cn





Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 10 of 11

only between individual pairs of coils

- The transfer system including a charging system with only single primary coils is to detect and allow only between individual pairs of coils.
- 4) Client device is inserted in or placed directly in contact with the transmitter
- Client device is placed directly in contact with the transmitter.
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion
  - The EUT is a Mobile exposure conditions
- 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.
  - Conducted the measurement with the required distance and the test results please refer to the section 2.4.

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

Temperature:	22.5°C	Relative Humidity:	49 %
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

#### E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
1%	110.1-205	0.34	0.43	0.38	0.39	0.51	307	614
50%	110.1-205	1.38	1.82	1.31	1.44	1.61	307	614
99%	110.1-205	2.47	2.87	2.48	2.43	2.89	307	614
Stand-by	110.1-205	0.49	0.64	0.48	0.47	0.61	307	614

#### H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
1%	110.1-205	0.028	0.050	0.056	0.040	0.050	0.815	1.63
50%	110.1-205	0.40	0.49	0.39	0.39	0.56	0.815	1.63
99%	110.1-205	0.52	0.70	0.59	0.41	0.40	0.815	1.63
Stand-by	110.1-205	0.48	0.30	0.40	0.52	0.38	0.815	1.63

Note: All the situation(full load, half load and empty load) has been tested, only the worst situation (full load 15W) was recorded in the report.

Code:AB-RF-05-b

www.anbotek.com.cr





Report No.: 18220WC20251202 FCC ID: 2ATWU-WI085 Page 11 of 11

## **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 -----

