

TEST REPORT

Reference No. : WTF19S12083723W002 V1
FCC ID : 2AMH2-BMCA142A
Applicant..... : MPOW TECHNOLOGY CO., LIMITED
Address..... : FLAT/RM 605 6/F FA YUEN COMMERCIAL BUILDING 75-77 FA
YUEN STREET MONGKOK KL HONG KONG
Manufacturer : Guangdong dongguan Fuze electronics co.LTD
Address..... : No2.Dongyi heng road.huanshi east road.Tangxia town. dongguan city
Guangdong province, China
Product..... : Wireless Charging Mount Kit With Smart Auto Clamping
Model(s) : CA142A, BMCA142A, BMCA142AB, BMCA124A, CA124A,
BMCA125A, CA125A, BMCA126A, CA126A
Standards..... : FCC Part 15 subpart C
Date of Receipt sample : 2019-12-02
Date of Test : 2019-12-03 to 2019-12-11
Date of Issue..... : 2019-12-25
Test Result..... : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Services (Shenzhen) Co., Ltd.

Address: 1/F., Fukangtai Building, West Baima Road, Songgang Street, Baoan District, Shenzhen, Guangdong, China

Tel :+86-755-83551033

Fax:+86-755-83552400

Compiled by:

Approved by:

Ford Wang

Ford Wang / Project Engineer



Philo Zhong

Philo Zhong / Manager

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3. Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF19S12083723W002	2019-12-02	2019-12-03 to 2019-12-11	2019-12-12	original	-	Replaced
WTF19S12083723W002 V1	2019-12-02	2019-12-03 to 2019-12-11	2019-12-25	Version 1	Updated	Valid

4. General Information

4.1 General Description of E.U.T

Product:	Wireless Charging Mount Kit With Smart Auto Clamping
Model(s):	CA142A, BMCA142A, BMCA142AB, BMCA124A, CA124A, BMCA125A, CA125A, BMCA126A, CA126A
Model Difference:	Only the model names are different. The model BMCA142A is the tested sample.
Type of Modulation:	ASK
Frequency Range:	112~205kHz
Antenna installation:	Coil Antenna
Antenna Gain:	0dBi

4.2 Details of EUT

Ratings:	Input: 5V 2A / 9V 2A
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4.3 Test Mode

All the test model(s) and condition(s) mentioned were considered and evaluated respectively by performing full tests, the worst data were recorded and reported.

Description	Test channel	Test mode
Full Load(10W)*	144.0kHz	Transmitting with Ant
Half Load(5W)	144.0kHz	Transmitting with Ant
No Load	144.0kHz	Transmitting with Ant

All the mode were tested and passed, “*” show the worst case mode which were recorded in this report.

5. Equipment Used during Test

5.1 Equipments List

RF EXPOSURE						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Protection Network	SCHWARZBECK	VDHH9502	9502-103	2019-04-10	2020-04-09
2	EMI Test Receiver	R&S	ESCI	101528	2019-04-10	2020-04-09

5.2 Description of Auxiliary Equipment

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

5.3 Measurement Uncertainty

Test Item	Frequency Range	Uncertainty	Note
RF Exposure	0.112MHz~0.205MHz	±0.02 A/m	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

5.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by GUANG ZHOU GRG METROLOGY & TEST CO., LTD. address is No.163, Pingyun Rd. West of Huangpu Ave, Tianhe District, Guangzhou, Guangdong, China.

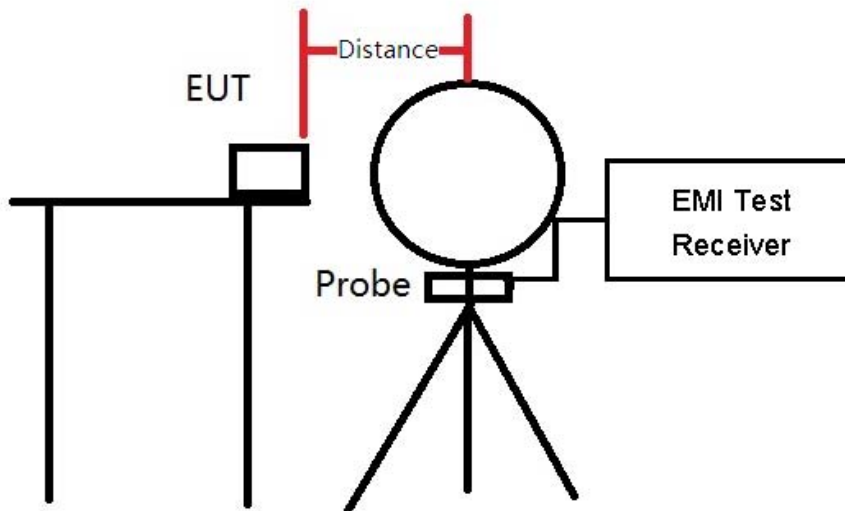
6. RF Exposure

Test Requirement:

Environmental evaluation and exposure limit according to FCC CFR 47 Part 1.1307(c) and (d), 1.1310.

According KDB680106 D01 RF Exposure Wireless Charging Apps v03

6.1 Test Setup



These testing were performed at test configuration as above diagram.

EUT was placed on a table, and the measure probe was placed at a measurement distance of 20cm from the above of EUT to the center of the probe and 15cm from the other directions of EUT to the center of the probe.

The EUT was put in different directions (Left, Right, Front, Rear, Top and Bottom) to obtain the maximum reading.

6.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	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

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

6.3 Test Data

H-Field

Test Side	Separation Distance(cm)	H-Field Measured(A/m)	H-Field Limit(A/m)	Result
Left	15	0.24	1.63	Compliance
Right	15	0.23	1.63	Compliance
Front	15	0.17	1.63	Compliance
Rear	15	0.27	1.63	Compliance
Top	20	0.43	1.63	Compliance
Margin Limit (%)	28.55%		Limit	50%

E-Field:

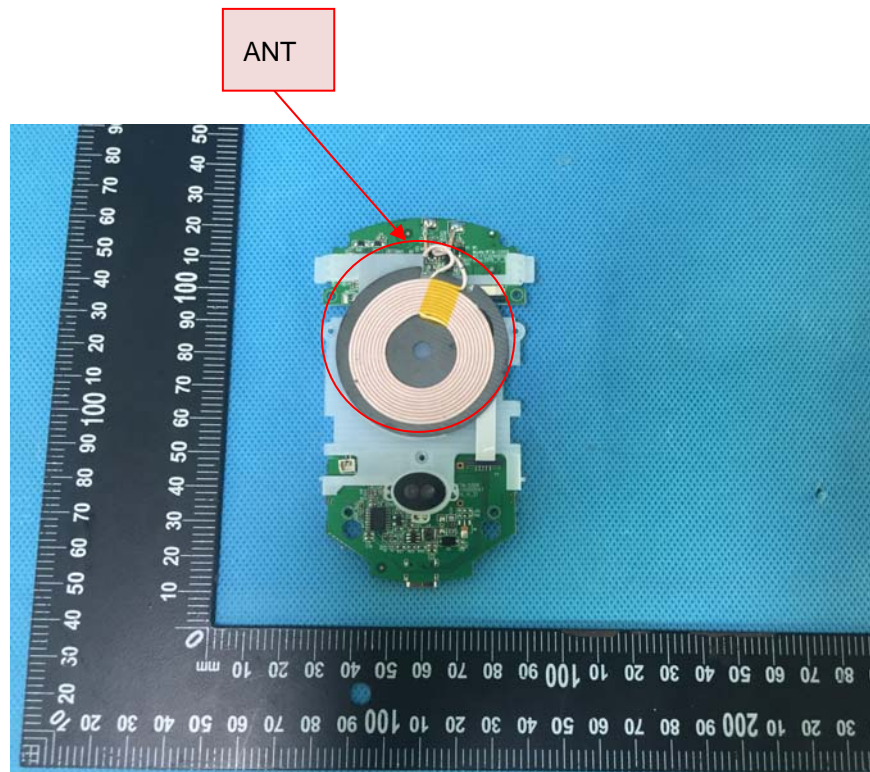
Test Side	Separation Distance(cm)	E-Field Measured(V/m)	E-Field Limit(V/m)
Left	15	5.15	614
Right	15	5.88	614
Front	15	5.51	614
Rear	15	5.02	614
Top	20	6.26	614
Margin Limit (%)		1.02%	

Remark: The device meets the mobile RF exposure limit at a 15cm separation distance as specified in §2.1091 of the FCC Rules and meeting all of the following requirements as follows:

- (1) Power transfer frequency is less than 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 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.

6.4 EUT coupling surface area

The inductive area is below (Coupling area: \varnothing 40mm, The located at top of the equipment):



7. Photographs-Test Setup

Left Side(measurement distance of 15cm)



Right Side(measurement distance of 15cm)



Front Side(measurement distance of 15cm)



Rear Side(measurement distance of 15cm)



Top Side(measurement distance of 20cm)



Bottom Side(measurement distance of 15cm)



====End of Report====