

Measurement and Test Report

For

Eggtronic Engineering srl

Via Campagna, **8**, **41126**

FCC Rule(s): KDB 680106 D01 V03

Product Description: Wireless Charging Pad

Tested Model: EGG160047

Report No.: STR18108297I-1

Tested Date: 2018-11-01 to 2018-11-06

Issued Date: <u>2018-11-06</u>

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Note: This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen SEM.Test Technology Co., Ltd.



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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Eggtronic Engineering srl Address of applicant: Via Campagna, 8, 41126

Manufacturer: Eggtronic Engineering srl Address of manufacturer: Via Campagna, 8, 41126

General Description of EUT	
Product Name:	Wireless Charging Pad
Trade Name:	Eggtronic
Model No.:	EGG160047
Adding Model(s):	/
	·
Note: The test data is gathered from a	production sample, provided by the manufacturer.

Technical Characteristics of EUT		
Frequency Range:	110~200KHz	
Modulation Type:	ASK	
Antenna Type:	Coil Antenna	
Rated Voltage:	DC5V (Wireless output)	
Rated Current:	<2A (Wireless output)	
Rated Power:	< 10W (Wireless output)	

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2. RF Exposure Test Report

2.1 Standard Applicable

According to § 1.1310 system operating under the provisions of this section shall be operating in a manner that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure.

TABLE 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 C	occupational/Controlled Exp	osure	
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
300-1,500			f/300	6
1,500-100,000			5	6
	(B) Limits for Gene	ral Population/Uncontrolled	Exposure	
0.3-1.34	614	1.63	*100	30
1.34-30	824/	f 2.19/1	*180/f ²	30
30-300	27.5	0.073	0.2	30
300-1,500			f/1500	30
1,500-100,000			1.0	30

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

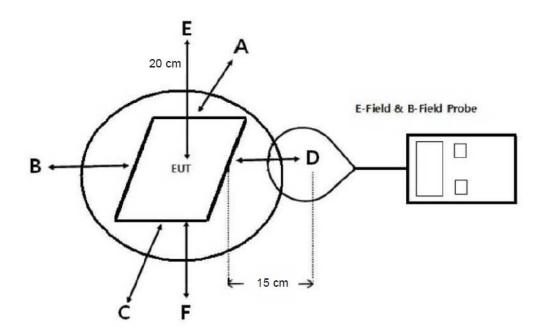
2.2 Test Conditions

Test Mode	Description	Remark	
TM1	Full Load	With resistor	
TM2	Full Charge	With mobile phone	
Measurement Distance:	15 cm		

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2.3 Test Procedure



- a. The measurement probe was placed at test distance(15 cm for A,B,C,D,F and 20 cm for E) which is between the edge of the charger and the geometric center of probe.
- b. The highest emission level was recorded at the measurement points(A, B, C, D, E, F).
- c. The EUT was measured according to the distance of KDB 680106 D01 V03.

2.4 Test Result

The EUT dose comply with item 5.2 of KDB 680106 D01V03

- 1. Power transfer frequency is less that 1 MHz

 Yes, the device operate in the frequency range from 110kHz to 205kHz.
- Output power from each primary coil is less than 15 wattsYes, the maximum output power of the primary coil is less than 15W.
- 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

 Yes, the client device includes only single primary coils.
- 4. Client device is inserted in or placed directly in contact with the transmitter Yes, Client device is placed directly in contact with the transmitter.
- 5. Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, It is mobile exposure conditions only.



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.

Yes, The EUT field strength levels are less than 50% of the MPE limit, refer to test TM1, TM2 list, and the coils can't transmitted simultaneous.

Test Mode: TM1 (with resistor)

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Тор	1.43	614	307
Bottom	3.52	614	307
Side 1	2.65	614	307
Side 2	2.47	614	307
Side 3	2.52	614	307
Side 4	2.44	614	307
	Magnetic Field Emis	ssions	
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Тор	0.0075	1.63	0.815
Bottom	0.0075	1.63	0.815
Side 1	0.0083	1.63	0.815
Side 2	0.0080	1.63	0.815
Side 3	0.0079	1.63	0.815

Test Mode: TM2 (with mobile phone)

Electric Field Emissions			
Test Position	Measure Value (V/m)	Limit(V/m)	50% Limit (V/m)
Тор	2.37	614	307
Bottom	2.52	614	307
Side 1	2.47	614	307
Side 2	2.58	614	307
Side 3	1.22	614	307
Side 4	2.36	614	307
	Magnetic Field Emis	ssions	
Test Position	Measure Value (A/m)	Limit(A/m)	50% Limit (A/m)
Тор	0.0094	1.63	0.815
Bottom	0.0066	1.63	0.815
Side 1	0.0069	1.63	0.815
Side 2	0.0073	1.63	0.815

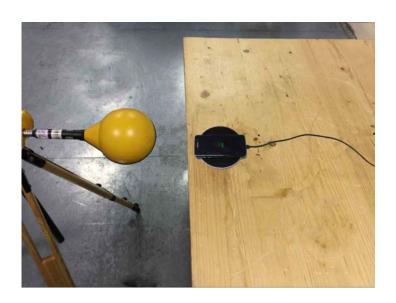
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Side 3	0.0062	1.63	0.815
Side 4	0.0047	1.63	0.815

2.4 Test Photos



***** END OF REPORT *****