



RF EXPOSURE REPORT

FOR

Gigastone Wireless Charger

Model: GA-9100B

Trade Mark: Gigastone

Issued to

Gigastone Corporation
12F., No.480, Ruiguang Rd., Neihu Dist., Taipei City 11492, Taiwan

Issued by

WH Technology Corp.

Open Site		No.120, Ln. 5, Hudong St., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
EMC Test Site	Xizhi Office and Lab	7F., No.262, Sec. 3, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (R.O.C.)
Tel.: +886-2-7729-7707 Fax: +886-2- 8648-1311		

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1. GENERAL INFORMATION

Applicant : Gigastone Corporation

Address : 12F., No.480, Ruiguang Rd., Neihu Dist., Taipei City 11492, Taiwan

Manufacturer : Gigastone Corporation

Address : 12F., No.480, Ruiguang Rd., Neihu Dist., Taipei City 11492, Taiwan

EUT : Gigastone Wireless Charger

Model Name : GA-9100B

Model Differences : N/A

Standard : FCC Part 1 (Section 1.1307(b), 1.1310)

Receipt Date: 09/11/2018

Final Test Date: 10/25/2018

Tested by:

Bing Chang/ Engineer

Reviewed by:

Bell Wei / Manager

Designation Number: TW2954



1.1 TEST MODE:

137kHz

1.2 DESCRIPTION OF THE TESTED SAMPLES

EUT Name	: Gigastone Wireless Charger
Model Number	:: GA-9100B
FCC ID Number	PLE-GA-9100B
Receipt Date	: 09/11/2018
Input Voltage	: DC 5V/2A; DC9V/2A
Operate Frequency	: 110KHz-205KHz
Antenna Type	: Loop Antenna



2. LIST OF TEST AND MEASUREMENT INSTRUMENTS

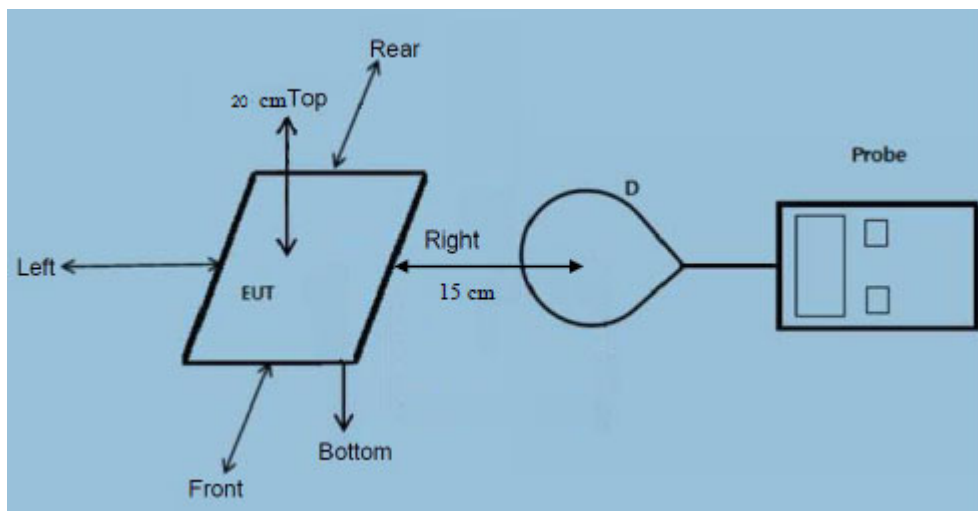
Equipment	Model	Manufacture	Last Cal.	Next Cal.
EMF Meter	ELT-400	NARDA	Oct. 22, 2018	Oct. 21, 2019
Probe E-Field	EF0691	Narda Safety Test Solutions	Jul. 13, 2018	Jul. 12, 2019

3. METHOD OF MEASUREMENT

3.1 APPLICABLE STANDARD

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines. According to §1.1310 and §2.1093 RF exposure is calculated. According KDB680106 D01 RF Exposure Wireless Charging Apps v03.

3.2 TEST SETUP



3.3 TEST PROCEDURE:

- For devices designed for typical desktop applications, such as wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 20 cm from the top, and 15 cm from other directions (Left, Right, Front, Rear, Bottom). E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device.



3.4 EQUIPMENT APPROVAL CONSIDERATIONS:

The EUT does comply with item 5 of KDB 680106 D01v03

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

4. TEST DATA

E-Filed Strength							
Charging	Probe from EUT Side	Test Distance (cm)	Calculated Value (A/m)	Calculated Value (V/m)	50% Limits Test(V/m)	Limits Test (V/m)	Result
< 1% Battery	Front	15	0.110	0.462	307	614	PASS
< 1% Battery	Rear	15	0.118	0.417			PASS
< 1% Battery	Left	15	0.120	0.426			PASS
< 1% Battery	Right	15	0.128	0.412			PASS
< 1% Battery	Bottom	15	0.132	0.243			PASS
< 1% Battery	Top	20	0.104	0.432			PASS
H-Filed Strength							
Charging	Probe from EUT Side	Test Distance (cm)	Measured Value(uT)	Calculated Value (A/m)	50% Limits Test(A/m)	Limits Test (A/m)	Result
< 1% Battery	Front	15	0.140	0.117	0.815	1.63	PASS
< 1% Battery	Rear	15	0.145	0.112			PASS
< 1% Battery	Left	15	0.150	0.125			PASS
< 1% Battery	Right	15	0.144	0.114			PASS
< 1% Battery	Bottom	15	0.160	0.130			PASS
< 1% Battery	Top	20	0.158	0.132			PASS

Note: The aggregate H-filed strengths at 15cm surrounding the device and 20cm above the top surface.
 $A/m = uT/1.25$



E-Filed Strength							
Charging	Probe from EUT Side	Test Distance (cm)	Calculated Value (A/m)	Calculated Value (V/m)	50% Limits Test(V/m)	Limits Test (V/m)	Result
50% Battery	Front	15	0.113	0.441	307	614	PASS
50% Battery	Rear	15	0.124	0.416			PASS
50% Battery	Left	15	0.117	0.424			PASS
50% Battery	Right	15	0.123	0.405			PASS
50% Battery	Bottom	15	0.118	0.408			PASS
50% Battery	Top	20	0.125	0.421			PASS
H-Filed Strength							
Charging	Probe from EUT Side	Test Distance (cm)	Measured Value(uT)	Calculated Value (A/m)	50% Limits Test(A/m)	Limits Test (A/m)	Result
50% Battery	Front	15	0.142	0.112	0.815	1.63	PASS
50% Battery	Rear	15	0.145	0.124			PASS
50% Battery	Left	15	0.149	0.128			PASS
50% Battery	Right	15	0.141	0.113			PASS
50% Battery	Bottom	15	0.145	0.115			PASS
50% Battery	Top	20	0.154	0.135			PASS

Note: The aggregate H-filed strengths at 15cm surrounding the device and 20cm above the top surface.
A/m=uT/1.25

E-Filed Strength							
Charging	Probe from EUT Side	Test Distance (cm)	Calculated Value (A/m)	Calculated Value (V/m)	50% Limits Test(V/m)	Limits Test (V/m)	Result
>99% Battery	Front	15	0.129	0.448	307	614	PASS
>99% Battery	Rear	15	0.118	0.440			PASS
>99% Battery	Left	15	0.122	0.428			PASS
>99% Battery	Right	15	0.117	0.463			PASS
>99% Battery	Bottom	15	0.117	0.432			PASS
>99% Battery	Top	20	0.107	0.451			PASS
H-Filed Strength							
Charging	Probe from EUT Side	Test Distance (cm)	Measured Value(uT)	Calculated Value (A/m)	50% Limits Test(A/m)	Limits Test (A/m)	Result
>99% Battery	Front	15	0.149	0.119	0.815	1.63	PASS
>99% Battery	Rear	15	0.138	0.108			PASS
>99% Battery	Left	15	0.142	0.122			PASS
>99% Battery	Right	15	0.134	0.107			PASS
>99% Battery	Bottom	15	0.136	0.127			PASS
>99% Battery	Top	20	0.134	0.107			PASS

Note: The aggregate H-filed strengths at 15cm surrounding the device and 20cm above the top surface.
A/m=uT/1.25