RF EXPOSURE REPORT

FOR

Fast Wireless Charger

Model: WP-5210

Trade Mark: Gigastone

Issued to

Gigastone Corporation.
12F, No. 480, Rueiguang Road Neihu Distrist, Taipei 114, Taiwan, R.O.C.

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.)**
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1. GENERAL INFORMATION

Applicant	:	**Gigastone Corporation.**
Address	:	**12F, No. 480, Rueiguang Road Neihu District, Taipei 114, Taiwan, R.O.C.**
Manufacturer	:	**Gigastone Corporation.**
Address	:	**12F, No. 480, Rueiguang Road Neihu District, Taipei 114, Taiwan, R.O.C.**
EUT	:	**Fast Wireless Charger**
Model Name	:	**WP-5210**
Model Differences	:	**N/A**
Standard	:	**FCC Part 1 (Section 1.1307(b), 1.1310)**

Receipt Date: 12/27/2019 Final Test Date: 01/15/2020

Tested by: Bing Chang/ Engineer

Reviewed by: Bell Wei / Manager
Designation Number: TW2954

1.1 TEST MODE:

115kHz

1.2 DESCRIPTION OF THE TESTED SAMPLES

EUT Name	:	Fast Wireless Charger
Model Number	::	WP-5210
FCC ID Number		PLE-WP-5210
Receipt Date	:	12/27/2019
Input Voltage	:	I/P: 5Vdc, 2A; 9Vdc, 2A
		O/P: 5Vdc, 1.5A; 9Vdc, 1.12A 10W Max
Operate Frequency	:	110KHz-205KHz
Antenna Type	:	Coil Antenna

2. LIST OF TEST AND MEASUREMENT INSTRUMENTS

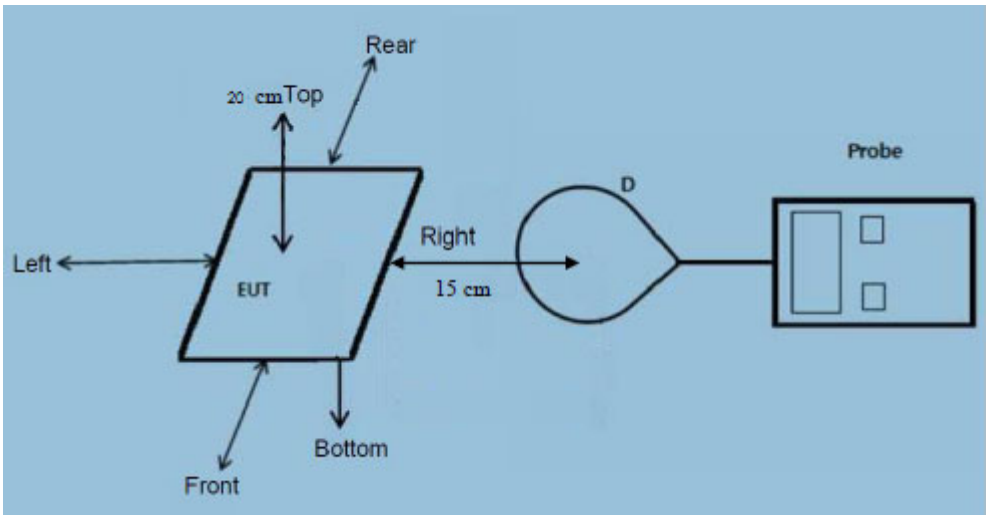
Equipment	Model	Manufacture	Last Cal.	Next Cal.
EMF Meter	ELT-400	NARDA	Oct. 22, 2019	Oct. 21, 2020
Probe E-Field	EF0691	Narda Safety Test Solutions	Jul. 13, 2019	Jul. 12, 2020

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:

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance 20 cm from the top, and 15cm 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	0.111	0.463	307	614	PASS
< 1% Battery	Rear	15	0.118	0.413			PASS
< 1% Battery	Left	15	0.122	0.421			PASS
< 1% Battery	Right	15	0.131	0.412			PASS
< 1% Battery	Bottom	15	0.134	0.243			PASS
< 1% Battery	Top	20	0.105	0.430			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	0.142	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	0.141	0.111			PASS
< 1% Battery	Bottom	15	0.162	0.132			PASS
< 1% Battery	Top	20	0.153	0.133			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	0.122	0.416			PASS
50% Battery	Left	15	0.111	0.422			PASS
50% Battery	Right	15	0.125	0.402			PASS
50% Battery	Bottom	15	0.118	0.401			PASS
50% Battery	Top	20	0.120	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	0.123	0.112	0.815	1.63	PASS
50% Battery	Rear	15	0.150	0.120			PASS
50% Battery	Left	15	0.140	0.121			PASS
50% Battery	Right	15	0.142	0.110			PASS
50% Battery	Bottom	15	0.132	0.112			PASS
50% Battery	Top	20	0.142	0.140			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	0.130	0.445	307	614	PASS
＞99% Battery	Rear	15	0.120	0.425			PASS
＞99% Battery	Left	15	0.110	0.423			PASS
＞99% Battery	Right	15	0.115	0.418			PASS
＞99% Battery	Bottom	15	0.117	0.425			PASS
＞99% Battery	Top	20	0.112	0.453			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	0.147	0.115	0.815	1.63	PASS
＞99% Battery	Rear	15	0.125	0.110			PASS
＞99% Battery	Left	15	0.135	0.121			PASS
＞99% Battery	Right	15	0.140	0.105			PASS
＞99% Battery	Bottom	15	0.131	0.120			PASS
＞99% Battery	Top	20	0.125	0.105			PASS

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

Test Setup Photos