



Compliance Testing, LLC

Previously Flom Test Lab

EMI, EMC, RF Testing Experts Since 1963

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Test Report

Prepared for: MedHab LLC

Model: Q-100

Description: Wireless Charger

Serial Number: N/A

FCC ID: 2AQ6B-000269

To

FCC Part 1.1310

Date of Issue: November 16, 2018

On the behalf of the applicant:

MedHab LLC
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Attention of:

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Poona Saber
Project Test Engineer

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All results contained herein relate only to the sample tested.

Test Report Revision History

Revision	Date	Revised By	Reason for Revision
1.0	3/12/18	Poona Saber	Original Document
2.0	11/5/18	Poona Saber	Revised test name and applicable FCC rule part information and additional info on page 5 -put a note on page 10 for more explanation on set up block diagram

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ILAC / A2LA

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The tests results contained within this test report all fall within our scope of accreditation, unless noted below.

Please refer to <http://www.compliancetesting.com/labscope.html> for current scope of accreditation.

Testing Certificate Number: **2152.01**



FCC Site Reg. #349717

IC Site Reg. #2044A-2

Non-accredited tests contained in this report:

N/A

Test and Measurement Data

Subpart 1.1310

All tests and measurement data shown were performed in accordance with FCC Rule Part 1.1310 and following procedures in KDB 680106 D01.

Name of Test	FCC Section
RF Exposure evaluation	1.1310

Standard Test Conditions and Engineering Practices

Unless otherwise indicated in the specific measurement results, the ambient temperature was maintained within the range of 10° to 40°C (50° to 104°F) and the relative humidity levels were in the range of 10% to 90%.

Environmental Conditions	
Temperature (°C)	Humidity (%)
23.3	28.9

EUT Description**Model:** Q-100**Description:** Wireless Charger**Firmware:** N/A**Software:** N/A**Serial Number:** N/A**Additional Information:**

Product evaluated here is a wireless charger which is manufactured by Shenzhen Powerqi technology and it gets connected to AC power to operate with DC input of 5V. Its rated frequency of operation is 110-205 KHz and it consists of single Coil for charging of electronic devices.

EUT Operation during Tests

The Wireless charger is tested with the MyNotify Bluetooth device located on it and on charging state. Device is put on three different orthogonal axis and the maximum position is reported here.



Accessories:

Qty	Description	Manufacturer	Model	S/N
1	AC adapter	CUI INC	SWM6-5-NH-U	N/A

Cables:

Qty	Description	Length (M)	Shielding Y/N	Shielded Hood Y/N	Termination
1	Usb to mini usb cable	<3	N	N	N/A

Modifications:

Device is showing passing results for conducted emissions with the specific USB AC adapter with the information above

Test Results Summary

Specification	Test Name	Pass, Fail, N/A	Comments
1.1310	RF Exposure Test	PASS	

1.1310 RF Exposure

Engineer: Poona Saber

Test Date: 6/4/2018

Test Procedure

Procedures in KDB 680106 D01 are followed for desktop application devices. Electric and magnetic field transmitted from the device was tested with an electric and magnetic field probe – analyzer from 9 KHz to 30 MHz at a distance of 15 centimeter from top and 4 sides of the device and also 20 centimeters from top of the device. Measurements were made with a load which is the MyNotify Bluetooth device. Results were compared to below table from part 1.1310 Table 1, for Electric and magnetic field limit of 61.4 V/m and 0.163 A/m respectively.

Per KDB 680106 D01 Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m

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 Occupational/Controlled Exposure				
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 General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*100	30
1.34-30	824/f	2.19/f	*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

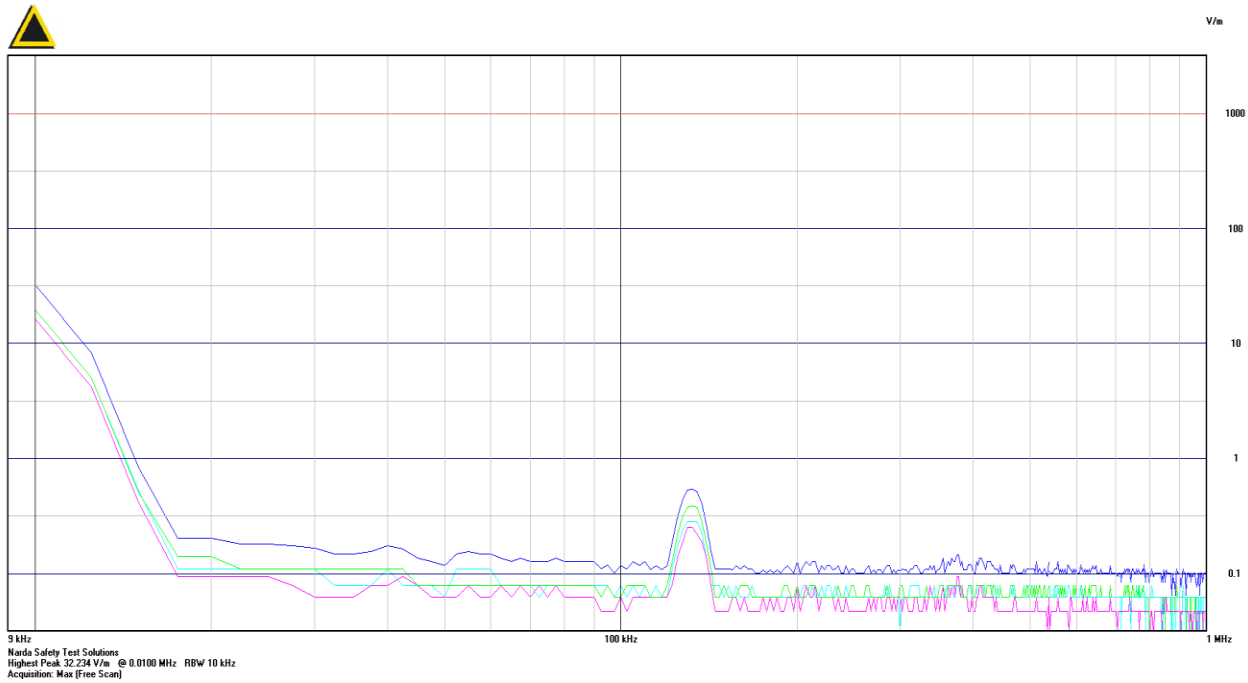
The highest measured electric field for fundamental frequency is E=0.78 V/m @ 0.144 MHz

The highest measured magnetic field for fundamental frequency is H=0.83 A/m @ 0.144 MHz

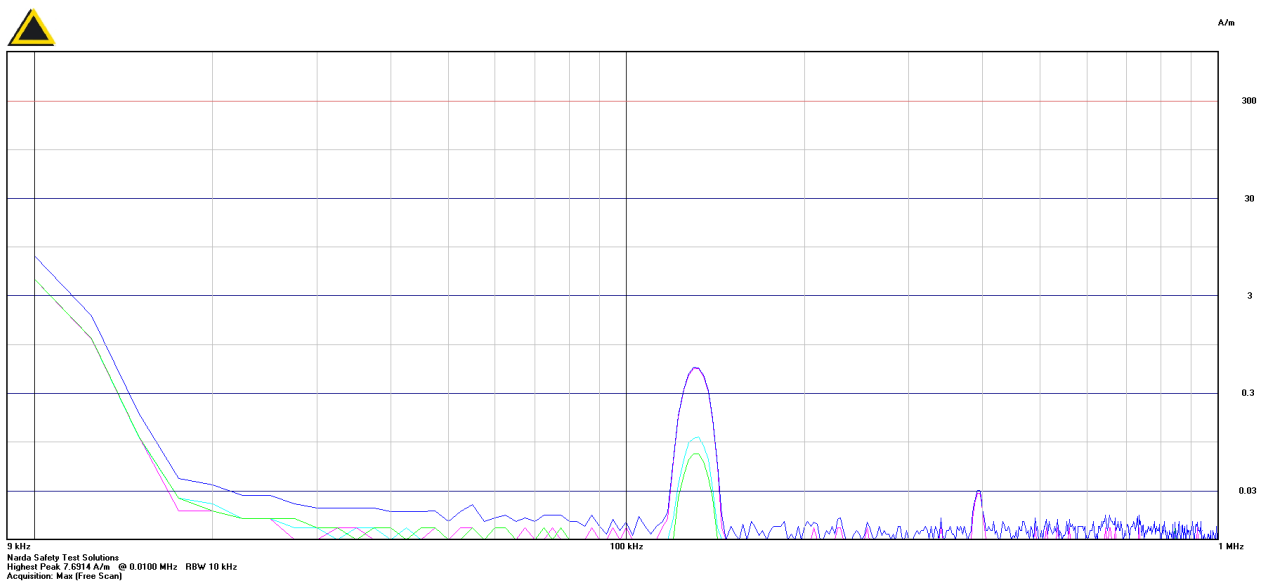
All measured values are below 50% of the applicable limit.

Test result

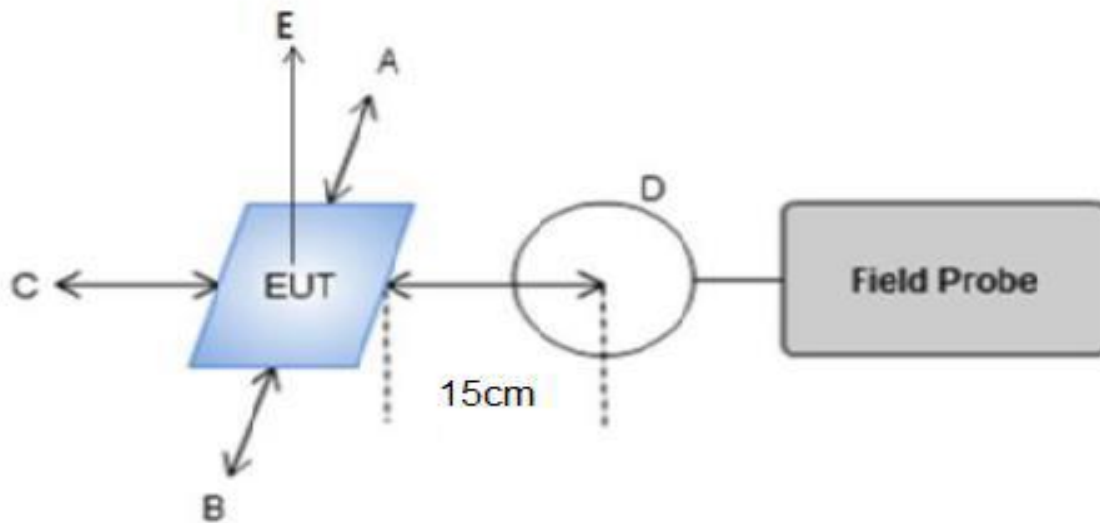
Test Result at 15cm from top of the device E field



Test Result at 15cm from top of the device H field



Test set up Block diagram



Note: Near field probe is located at locations A,B,C,D from sides of the EUT at 15 cm away and at location E from top of the EUT at 15 and 20 cm away from the EUT for testing the Electric and magnetic



Charger Picture with fall detection device



Test Equipment Utilized

Description	Manufacturer	Model #	Last Cal Date	Cal Due Date
Electric and magnetic field probe	Narda	EHP-200	08/24/15	08/24/18

In addition to the above listed equipment standard RF connectors and cables were utilized in the testing of the described equipment. Prior to testing these components were tested to verify proper operation.

END OF TEST REPORT