

RF Exposure Evaluation Report

Report Reference No......: **MTEB22120280-H**

FCC ID.....: **2A94U-AP9**

Compiled by

(position+printed name+signature)...: File administrators Alisa Luo

Supervised by

(position+printed name+signature)...: Test Engineer Sunny Deng

Approved by

(position+printed name+signature)...: Manager Yvette Zhou

Date of issue.....: **December 30, 2022**

Representative Laboratory Name ..: **Shenzhen Most Technology Service Co., Ltd.**

Address: No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park,
Nanshan, Shenzhen, Guangdong, China.

Applicant's name: **SHENZHEN REOSTUDIO TECHNOLOGY CO.,LTD**

Address: Room 308, 3rd Floor, Huasheng Building, No. 48, Donghuan 2nd
Road, Longhua District, Shenzhen

Test specification/ Standard: **FCC CFR Title 47 Part 15 Subpart C**
FCC KDB 680106 D01 RF Exposure Wireless Charging Apps
v03r01

TRF Originator: Shenzhen Most Technology Service Co., Ltd.

Shenzhen Most Technology Service Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Most Technology Service Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Most Technology Service Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

Test item description: **AP9 wireless charger station**

Trade Mark: Hardcider labs

Manufacturer: SHENZHEN FANGXING TECHNOLOGY CO.,LTD

Model/Type reference.....: AP9

Modulation Type: FSK

Operation Frequency.....: 110-205KHz

Input: DC 15V by Adapter

Rating: Watch charge part:5W

Three sets of output power:10W

Hardware Version: N/A

Software Version: N/A

Result.....: **PASS**

TEST REPORT

Equipment under Test : AP9 wireless charger station

Model /Type : AP9

Applicant : SHENZHEN REOSTUDIO TECHNOLOGY CO.,LTD

Address : Room 308, 3rd Floor, Huasheng Building, No. 48, Donghuan
2nd Road, Longhua District, Shenzhen

Manufacturer : SHENZHEN FANGXING TECHNOLOGY CO.,LTD

Address : Room 503,Hengbokejiyuan, No.33,Qingning Road,Longhua
District, Shenzhen

Test Result:	PASS
---------------------	-------------

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

1. Revision History

Revision	Issue Date	Revisions	Revised By
00	2023.01.05	Initial Issue	Alisa Luo

2. SAR Evaluation

2.1 RF Exposure Compliance Requirement

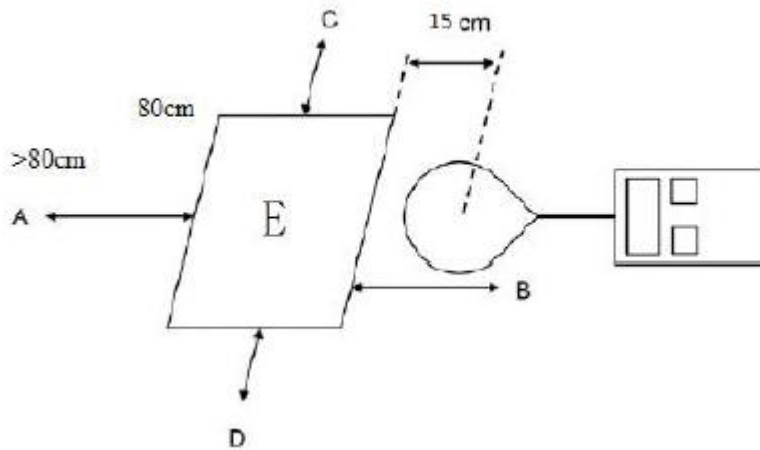
2.1.1 Standard Requirement

According to FCC CFR Title 47 Part 15 Subpart C
FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01

2.1.2 Limits

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 D01v03r01: RF Exposure Wireless Charging.

Test Setup:



E to position is 20cm.

2.1.3 Test Procedure:

- 1: The RF exposure test was performed on 80cm insulated table in anechoic chamber.
- 2: The measurement probe was placed at test distance (15cm) which is between the edge of the charger and the geometric centre of probe.
- 3: The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E) were completed.
- 4: The EUT were measured according to the dictates of KDB 680106D01v03r01.

2.1.4 Test Mode: Charging + Transmitting Mode

2.1.5 Test Instruments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Exposure Level Tester	narda	ELT-400	N-0231	2022.4.15	1 Year
2	Magnetic field probe 100cm ²	narda	ELT probe 100cm ²	M0675	2022.4.15	1 Year
3	Isotropic Electric Field Probe	narda	EP-601	511WX60706	2022.4.15	1 Year

The EUT does comply with section 5 b) of KDB 680106 D01 RF Exposure Wireless charging App V03r01.

Conditions requirement	Answers
Power transfer frequency is less than 1 MHz.	After measuring the product the transfer frequency is 0.120-0.205MHz
Output power from each primary coil is less than or equal to 15 watts.	After measuring the product the each primary coil power is 10 watts
The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.	The transfer system include signal primary.
Client device is placed directly in contact with the transmitter.	Client device is placed directly in contact with the transmitter.
Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).	Mobile exposure conditions only.
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.	After measuring the product the Max H-field Strength is 0.701 A/m Far less than 50% of the MPE limit.

2.1.6 Test data

For Full load mode:

E-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position B	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.110-0.205	1.512	1.362	1.305	1.313	1.375	307	614

H-Filed Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position B	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.110-0.205	0.701	0.635	0.602	0.618	0.624	0.815	1.63

For Half load mode:

E-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position B	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.110-0.205	1.443	1.328	1.334	1.308	1.324	307	614

H-Filed Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position B	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.110-0.205	0.684	0.624	0.546	0.587	0.608	0.815	1.63

For Null load mode:

E-Field Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position B	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.110-0.205	1.428	1.287	1.348	1.327	1.028	307	614

H-Filed Strength at 15 cm for position A,B,C,D 20cm for position E from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position B	Test Position D	Test Position E	Limit (50%) (V/m)	Limits Test (V/m)
0.110-0.205	0.671	0.547	0.624	0.615	0.625	0.815	1.63

Photos of test setup



.....THE END OF REPORT.....