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SHENZHEN DNS INDUSTRIES CO., LTD

TEST REPORT

SCOPE OF WORK
SAR ASSESSMENT– WD47F1, AC47F1

REPORT NUMBER
180411031SZN-002

ISSUE DATE **[REVISED DATE]**

24 April 2018 [----------]

PAGES
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DOCUMENT CONTROL NUMBER
RF Exposure
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Test Report

Applicant: SHENZHEN DNS INDUSTRIES CO., LTD

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Number: 180411031SZN-002

Date: 24 April 2018

Sample Description
Product : Wireless charger
Model No. : WD7F1,AC47F1

Brand Name : DNS, omars
Electrical Rating : Input: DC5V, 2A; Output: DC5V, 1A(5W)

Date Received : 11 April 2018

Date Test Conducted : 11 April 2018 to 23 April 2018

Test Requested : Test for compliance with CFR 47 part 1

Test Method : Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

Test Result : Pass

Conclusion : When determining of test conclusion, measurement uncertainty of tests have been considered.

.

********** End of Page **********

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Date: 24 April 2018

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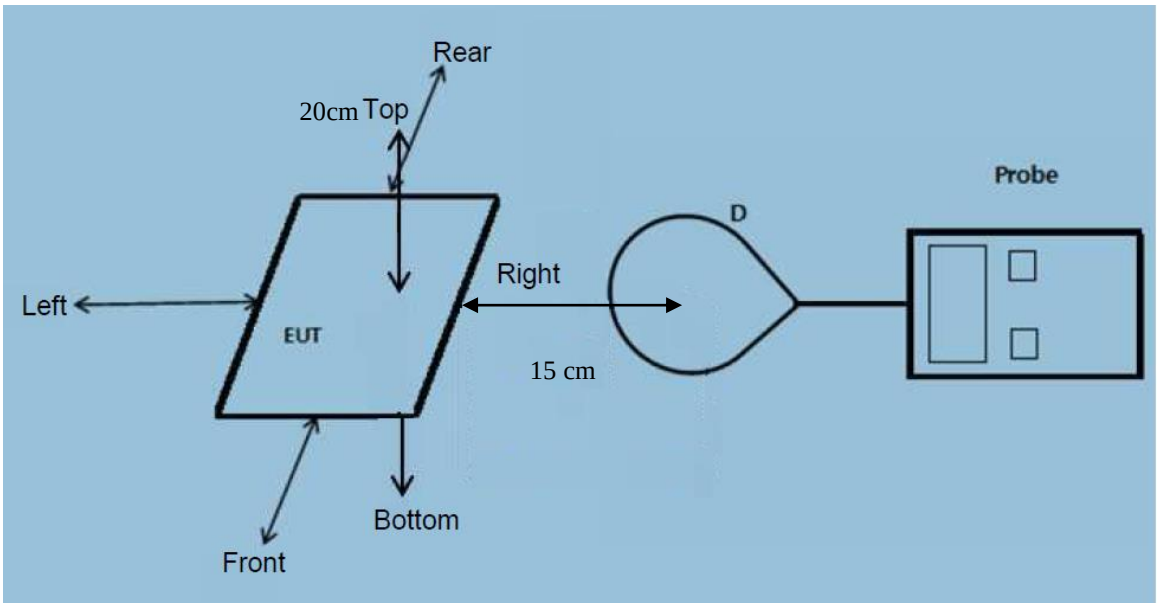
Test Report

Test Setup Configuration



Note

- The RF exposure test is performed in the shield room.
- The test distance is between the edge of the charger and the geometric centre of probe.
- The Model: AC47F1 is the same as the Model: WD47F1 in hardware aspect. The difference in model number serves as marketing strategy.

Test Equipment List

Name of instrument	Model	Manufacturer	Cal. Date	Due Date
Exposure Level Tester	ELT-4002304/03	Narda	21-Mar-18	21-Mar-19
Field Probe	HI-6105	ETS	21-Mar-18	21-Mar-19
Laser Data Interface	HI-6113	ETS	21-Mar-18	21-Mar-19

Reference Limit:

Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(c) and (d), 1.1310

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation.

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency Range (MHz)	Electric field strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm^2)	Average Time (minutes)
(A) Limits for Occupational/Controlled Exposure				
0.3 – 3.0	614	1.63	(100)*	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3 – 1.34	614	1.63	(100)*	30

Note: * = Plane wave equivalent power density

Test Mode: Charging and power transfer

Test Result:

H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (A/m)	Probe Position Rear (A/m)	Probe Position Left (A/m)	Probe Position Right (A/m)	Probe Position Top (A/m)	Limits (A/m)
0.110-0.205	1% battery level	0.047	0.048	0.035	0.038	0.044	1.63
0.110-0.205	50% battery level	0.041	0.047	0.032	0.033	0.044	1.63
0.110-0.205	99% battery level	0.040	0.043	0.034	0.031	0.040	1.63

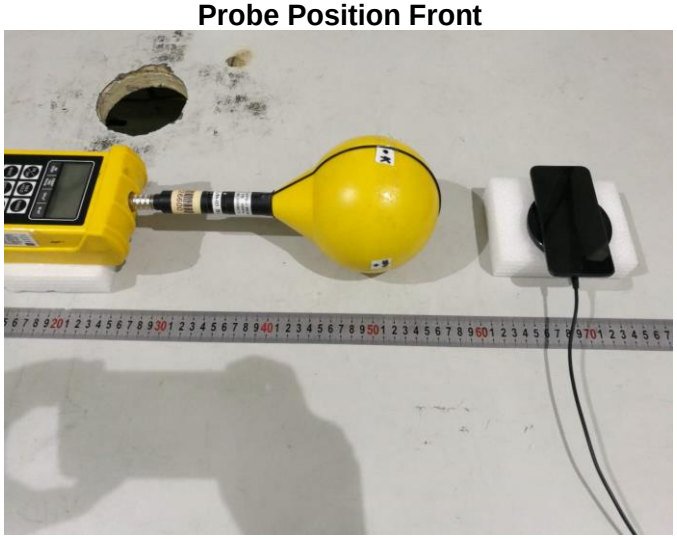
E-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

Frequency Range (MHz)	EUT Operation mode	Probe Position Front (V/m)	Probe Position Rear (V/m)	Probe Position Left (V/m)	Probe Position Right (V/m)	Probe Position Top (V/m)	Limits (V/m)
0.110-0.205	1% battery level	0.404	0.408	0.315	0.382	0.435	614
0.110-0.205	50% battery level	0.410	0.409	0.332	0.330	0.463	614
0.110-0.205	99% battery level	0.401	0.402	0.313	0.311	0.438	614

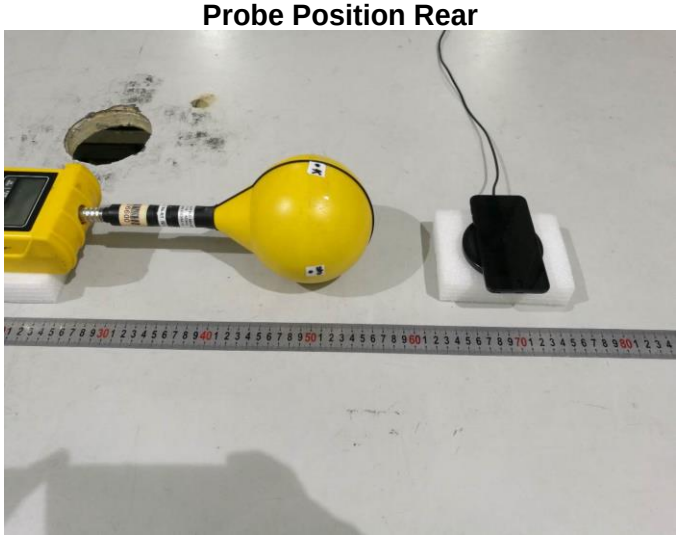
Configuration photo of the test:

H-Field Strength

Probe Position Front



Probe Position Rear



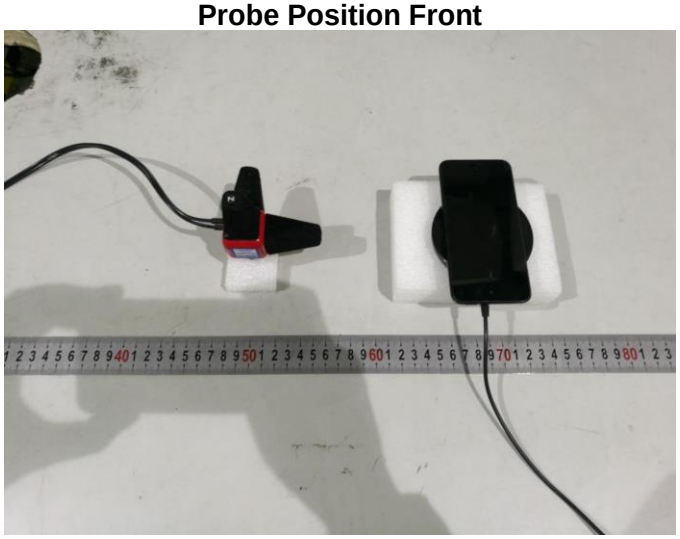
Probe Position Left

Probe Position Right

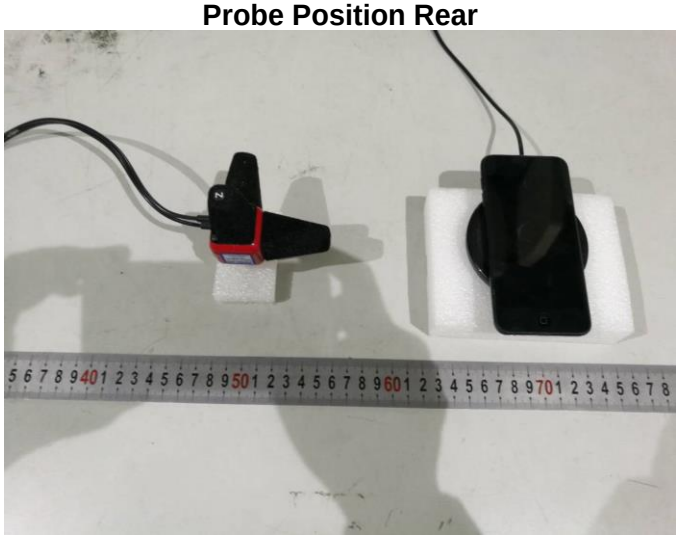
Probe Position Top

E-Field Strength

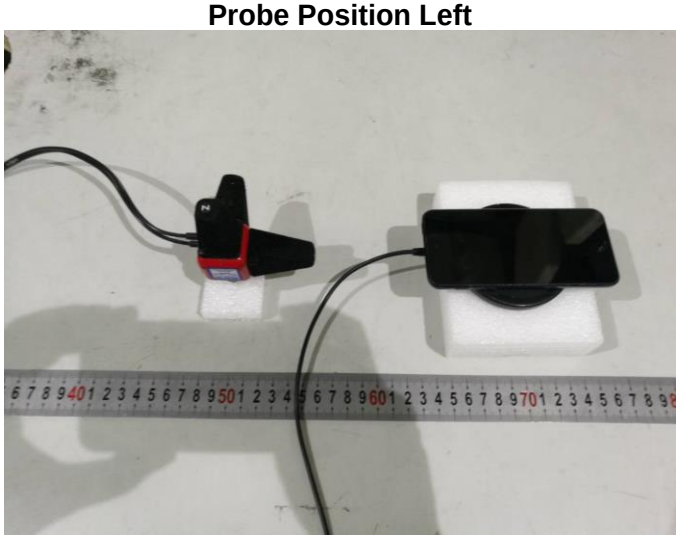
Probe Position Front



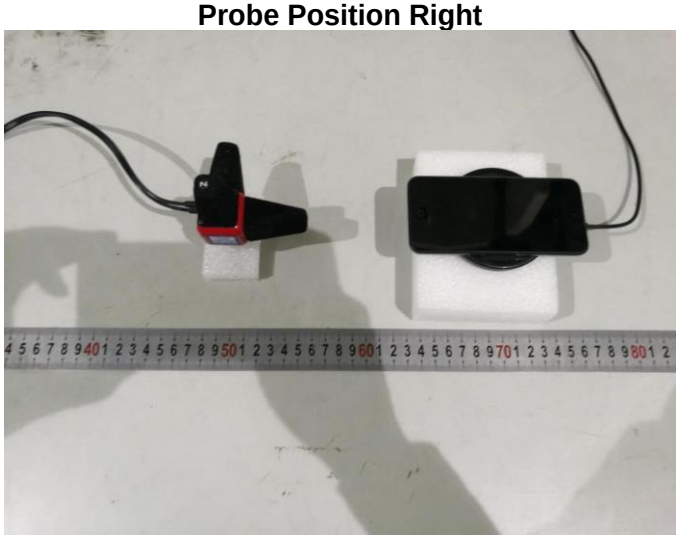
Probe Position Rear



Probe Position Left



Probe Position Right



Probe Position Top