

FCC RADIO TEST REPORT

FCC ID: 2ASYG518T-10W

Product: Wireless car charger

Trade Name: Brainiac

Model Name: 518T-10W

518A-10W, 518B-10W, 518C-S10W,

Serial Model: 518D-S10W, 518E-S10W, 518T-S10W,
518M-S10W, 518K-S10W, 518N-S10W

Report No.: UNIA19040207FR-01

Prepared for

ShenZhen Brainiac Technology Development Co., Ltd

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name.....: **ShenZhen Brainiac Technology Development Co., Ltd**
 Address.....: 2/F, Building B30, First Industrial Prak Of Fenghuang, Fuyong St.,
 Baoan District, Shen Zhen

Manufacture's Name.....: **ShenZhen Brainiac Technology Development Co., Ltd**
 Address.....: 2/F, Building B30, First Industrial Prak Of Fenghuang, Fuyong St.,
 Baoan District, Shen Zhen

Product description

Product name.....: Wireless car charger

Trade Mark.....: Brainiac

Model and/or type reference .. : 518T-10W

Standards.....: FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

This device described above has been tested by Shenzhen United Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test..... :

Date (s) of performance of tests.....: Apr. 1~8, 2019

Date of Issue.....: Apr. 8, 2019

Test Result.....: Pass

Prepared by:

Kahn Yang
Kahn yang/Editor

Reviewer:

Sherwin Qian
Sherwin Qian/Supervisor

Approved & Authorized Signer:

Liuze
Liuze/Manager

Note:For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

Frequency(KHz)
110.0~205.0KHz

The EUT antenna is Coil Antenna. No antenna other than that furnished by the responsible party shall be used with the device.

1. SUMMARY OF TEST RESULTS

1.1 Test procedures according to the technical standards:

FCC KDB 680106 D01 RF Exposure Wireless Charging Apps v03

FCC CFR 47			
Standard Section	Test Item	Judgment	Remark
FCC CFR 47 part1, 1.1310 KDB680106 D01v03(3)(3)	Electric Field Strength (E) (V/m)	PASS	
	Magnetic Field Strength (H) (A/m)	PASS	

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

No.	Item	Uncertainty
1	All emissions, radiated (<30M) (9KHz-30MHz)	$\pm 2.45\text{dB}$
2	Temperature	$\pm 0.5^\circ\text{C}$
3	Humidity	$\pm 2\%$

1.3 Test Instruments

Description	Brand	Model No.	Frequency Range	Calibrated Until
Exposure Level Tester	NARDA	ELT-400	1-400kHz	Jan. 01, 2020

2. MAXIMUM PERMISSIBLE EXPOSURE

2.1 MAXIMUM PERMISSIBLE EXPOSURE

Limit of Maximum Permissible Exposure

Limits for Occupational / Controlled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

Limits for General Population / Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180 / f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1	30

Note 1: f = frequency in MHz ; *Plane-wave equivalent power density.

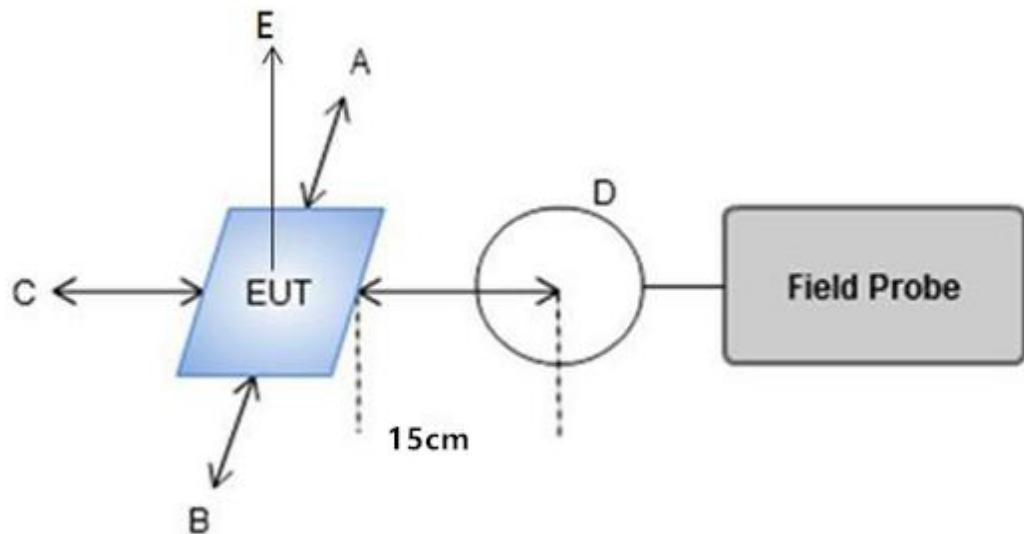
2: For the applicable limit, see FCC 1.1310, 680106 D01 RF Exposure Wireless Charging Apps v03.

3: 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. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

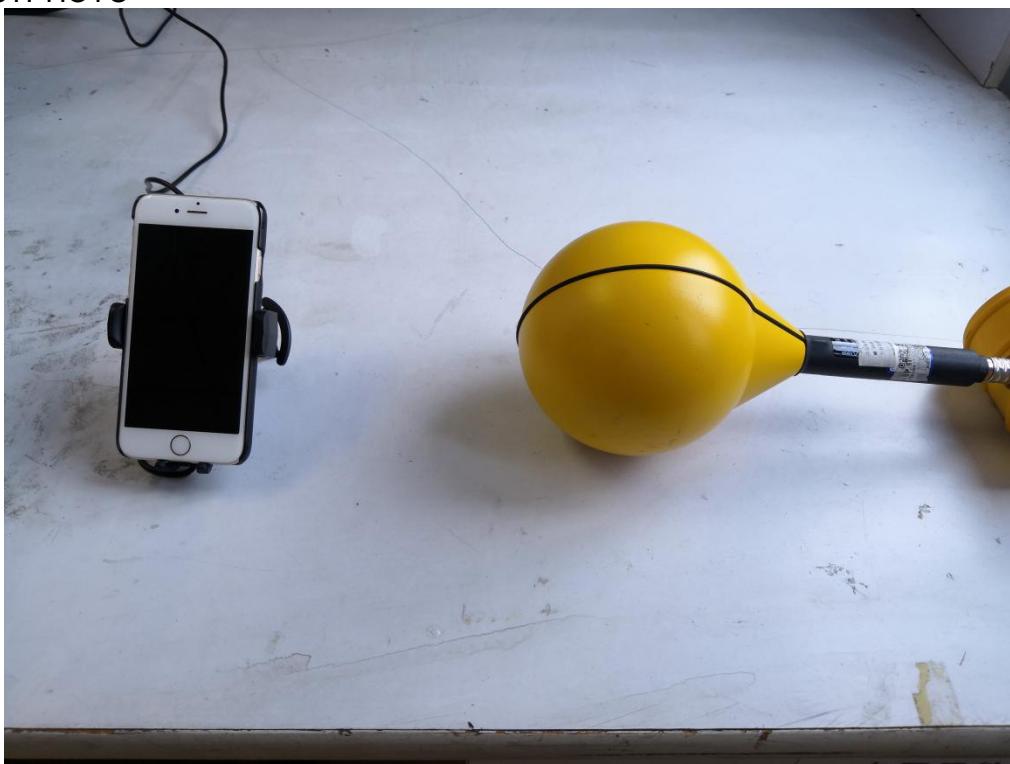
3. TESTPROCEDURE

a. For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. 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.

4.1 TESTSETUP



4.2 TESTPHOTO



4.3 RESULT OF MAXIMUM PERMISSIBLEEXPOSURE

For Full load mode:

E-Filed Strength at 15 cm from the edges surrounding the EUT (V/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (V/m)	Limits Test (V/m)
0.125	0.56	0.68	0.54	0.62	1.88	307	614

H-Filed Strength at 15 cm from the edges surrounding the EUT (A/m)

Frequency Range (MHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
0.125	0.24	0.19	0.26	0.17	0.18	0.815	1.63

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