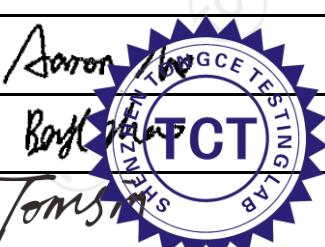
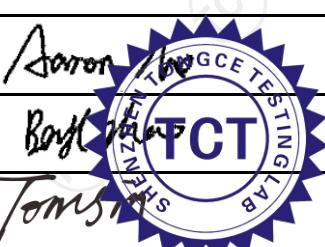
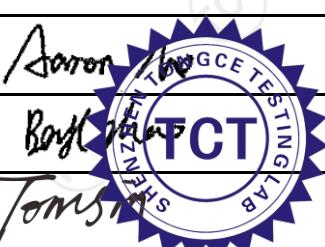


# TEST REPORT

<b>FCC ID.</b> .....	2A4PEK018-CCWA	
<b>Test Report No.</b> .....	TCT220221E014	
<b>Date of issue</b> .....	Mar. 03, 2022	
<b>Testing laboratory</b> .....	SHENZHEN TONGCE TESTING LAB	
<b>Testing location/ address:</b>	TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China	
<b>Applicant's name</b> .....	Shenzhen Zuojiaman Technology Co., Ltd	
<b>Address</b> .....	303, No.4, Chunjiang Road, Nanlian Community, Longgang Street, Longgang District, Shenzhen, China	
<b>Manufacturer's name</b> ...	Shenzhen Zuojiaman Technology Co., Ltd	
<b>Address</b> .....	303, No.4, Chunjiang Road, Nanlian Community, Longgang Street, Longgang District, Shenzhen, China	
<b>Standard(s)</b> .....	FCC CFR Title 47 Part 1.1310 KDB 680106 D01 RF Exposure Wireless Charging App v03r01	
<b>Test item description</b> .....	123W dual PD multi-function travel mobile power supply	
<b>Trade Mark</b> .....	ZUOJAMO	
<b>Model/Type reference</b> .....	K018-CCWA	
<b>Rating(s)</b> .....	Rechargeable Li-ion Battery DC 3.7V	
<b>Date of receipt of test item</b> .....	Feb. 21, 2022	
<b>Date (s) of performance of test</b> .....	Feb. 21, 2022 - Mar. 03, 2022	
<b>Tested by (+signature)</b> ...	Aaron MO	
<b>Check by (+signature)</b> ....	Beryl ZHAO	
<b>Approved by (+signature)</b> :	Tomsin	

## General disclaimer:

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

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## 1. General Product Information

### 1.1. EUT description

<b>Test item description .....</b> :	123W dual PD multi-function travel mobile power supply
<b>Model/Type reference.....</b> :	K018-CCWA
<b>Sample Number.....</b> :	TCT220221E013-0101
<b>Operation Frequency .....</b> :	112.18kHz – 147.92kHz
<b>Modulation Technology .....</b> :	Load modulation
<b>Max. Wireless Output Power:</b>	15W
<b>Antenna Type.....</b> :	Inductive loop coil Antenna
<b>Rating(s).....</b> :	Rechargeable Li-ion Battery DC 3.7V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

### 1.2. Model(s) list

None.

## 2. Facilities and Accreditations

### 2.1. Facilities

The test facility is recognized, certified, or accredited by the following organizations:

- FCC - Registration No.: 645098  
SHENZHEN TONGCE TESTING LAB  
Designation Number: CN1205

The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1  
SHENZHEN TONGCE TESTING LAB  
CAB identifier: CN0031

The testing lab has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

### 2.2. Location

SHENZHEN TONGCE TESTING LAB

Address: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

### 3. Technical Requirements Specification

#### 3.1. Requirements

According to the item 5 of KDB 680106 D01 RF Exposure Wireless Charging App v03r01:

- (1) Power transfer frequency is less than 1 MHz.  
Yes
- (2) Output power from each primary coil is less than or equal to 15 watts.  
Yes
- (3) 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.  
Yes
- (4) Client device is placed directly in contact with the transmitter.  
Yes
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).  
No  
(Note: According to April 2018 TCB Workshop, for inductive applications where the primary does not physically attach (clip, lock on) to the client, and it is intended for desktop use, the desktop guidance in KDB 680106 D01 may be applied.)
- (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.  
Yes

#### Limits

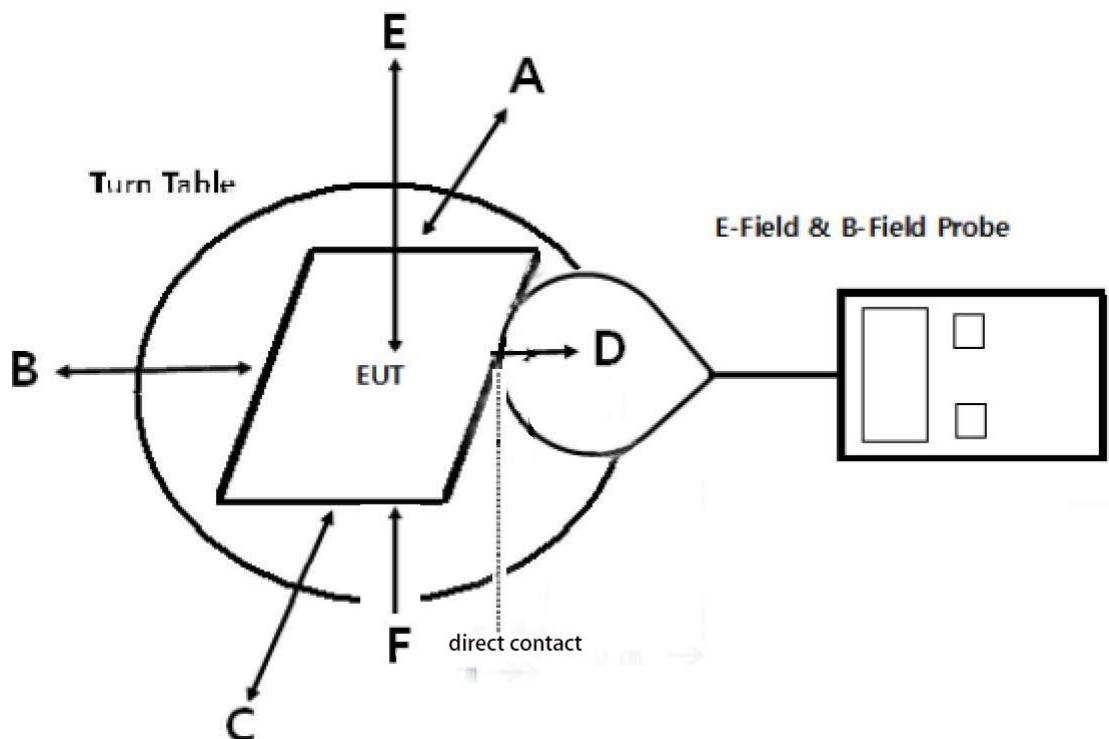
The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

#### Limits for Maximum Permissible Exposure (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
<b>(A) Limits for Occupational/Controlled Exposures</b>				
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6
<b>(B) Limits for General Population/Uncontrolled Exposure</b>				
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	30
30-300	27.5	0.073	0.2	30
300-1500	/	/	f/1500	30
1500-100,000	/	/	1.0	30

F=frequency in MHz  
\*=Plane-wave equivalent power density  
RF exposure compliance will need to be determined with respect to 1.1307(c) and (d) of the FCC rules. The emissions should be within the limits at 300kHz in Table 1 of 1.1310(use the 300kHz limits for 150kHz:614V/m,1.63A/m).

### 3.2. Test Setup



Note: Measurements should be made from all sides of the primary/client pair, with the 0cm measured from the center of the probe(s) to the edge of the device.

### 3.3. Test Procedure

1. The RF exposure test was performed in anechoic chamber.
2. The measurement probe was placed at 0cm surrounding the device
3. The highest emission level was recorded and compared with limit as soon as measurement of each points (A, B, C, D, E, F) were completed.
4. The EUT was measured according to the dictates of KDB 680106 D01v03.

Remark;

The EUT's test position A, B, C, D, F and E is valid for the H field measurements.

### 4.1. Test Instruments List

Equipment	Manufacturer	Model No.	Calibration Due
Magnetic field meter	NARDA	ELT-400	Mar. 07, 2022
Mobile Phone	SAMSUNG	SM-G9350	/
Adapter	SAMSUNG	EP-TA20CBC	/

## 4.2. Test Result

**Note: EUT mode : wireless output 15 W**

**Note: Internal battery power mode**

**H-Filed Strength at 0mm surrounding the EUT (A/m)**

Charging Load Worse case	Test Position A (A/m)	Test Position B (A/m)	Test Position C (A/m)	Test Position D (A/m)	Test Position E (A/m)	Test Position F (A/m)	Limits (A/m)
<5%	0.215	0.184	0.193	0.195	0.187	0.192	1.63
50%	0.193	0.182	0.192	0.189	0.181	0.184	1.63
>90 %	0.188	0.175	0.184	0.188	0.175	0.173	1.63

Note: 1. mT to A/m: A/m=1000\*mT/1.25

2. After pre-testing single coil and double coil in wireless charging mode, it is found that the worst case is double coil and it is reflected in the report.

**Note: AC power in mode**

**H-Filed Strength at 0mm surrounding the EUT (A/m)**

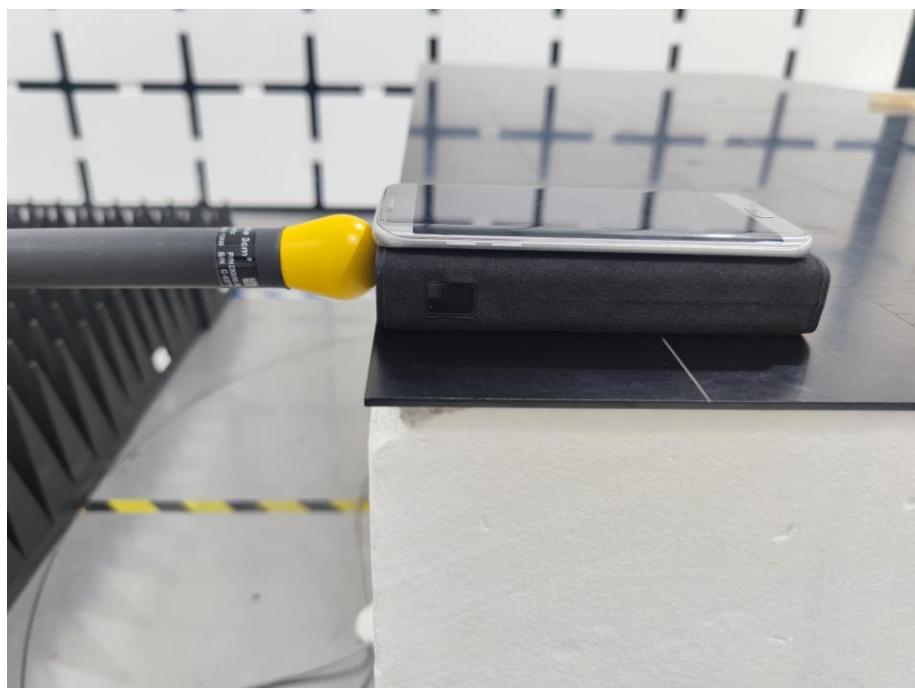
Charging Load Worse case	Test Position A(A/m)	Test Position B(A/m)	Test Position C(A/m)	Test Position D(A/m)	Test Position E(A/m)	Test Position F(A/m)	Limits (A/m)
<5%	0.215	0.197	0.197	0.195	0.181	0.197	1.63
50%	0.181	0.183	0.194	0.184	0.174	0.183	1.63
>90 %	0.183	0.175	0.189	0.186	0.178	0.185	1.63

Note: 1. mT to A/m: A/m=1000\*mT/1.25

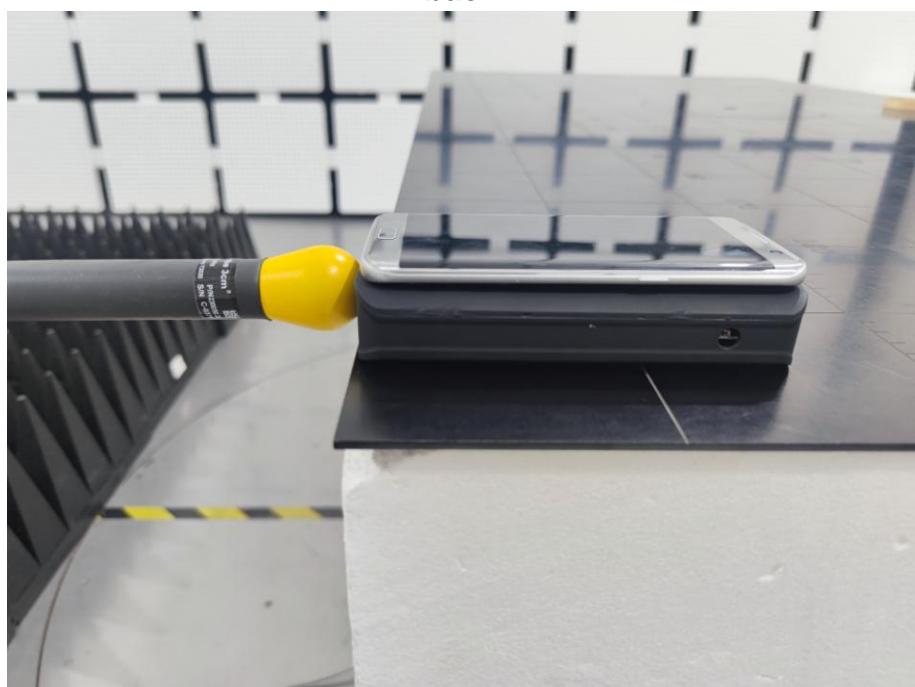
2. After pre-testing single coil and double coil in wireless charging mode, it is found that the worst case is double coil and it is reflected in the report.

**Test Set-up Photo**

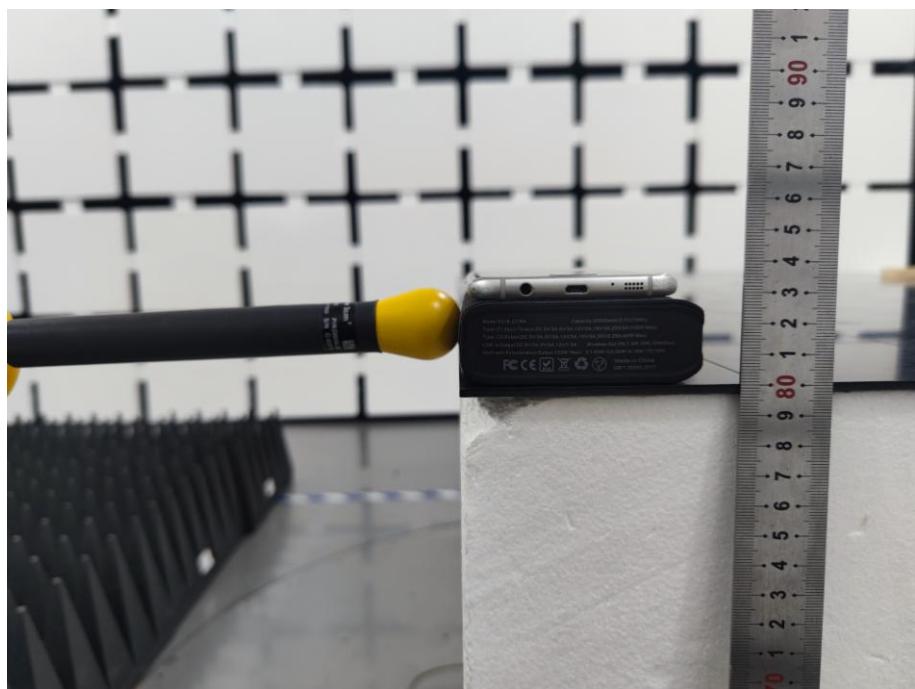
**front**



**back**

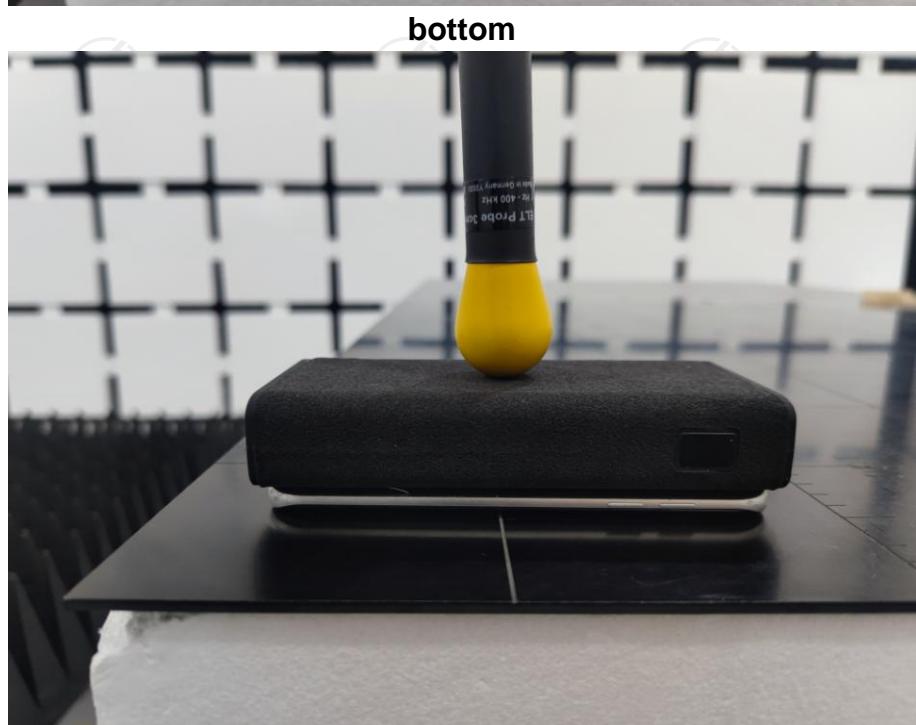
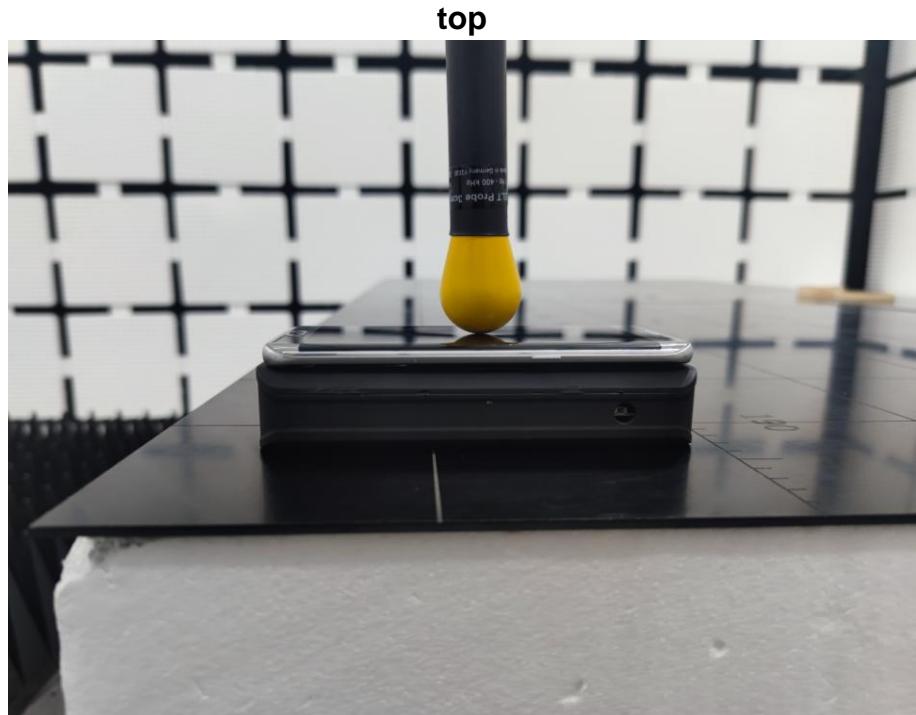


left



right





\*\*\*\*\***END OF REPORT**\*\*\*\*\*