# EXPOSURE REPORT

FCC ID: 2AT4S-ETW06

Date of issue: Aug. 05, 2019

Report Number: MTi19062602-6E2

Sample Description: ARC DISC.WIRELESS CHARGER

Model(s): ET.W06, ET.W01, VM-AUR-01, ET.W08, ET.W08S,

ET.WX, ET.W02, ET.W03, ET.W05, ET.W04, ET.WP01,

ET.WP02, ET.X8, ET.X8S, ET.WS, ET-W7

Applicant: ShenZhen ISUNBOM Technology Co., Ltd.

Address: 505, Building C, No.336, 1Road, Bao Tian, Xi Xiang Street,

Bao'an District, Shenzhen, China.

Date of Test: July 24, 2019 - Aug. 05, 2019

Shenzhen Microtest Co., Ltd.

http://www.mtitest.com

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Applicant's name:	ShenZhen ISUNBOM Technology Co., Ltd.
Address:	505, Building C, No.336, 1Road, Bao Tian, Xi Xiang Street, Bao'an District, Shenzhen, China.
Manufacture's name:	ShenZhen ISUNBOM Technology Co., Ltd.
Address:	505, Building C, No.336, 1Road, Bao Tian, Xi Xiang Street, Bao'an District, Shenzhen, China.
Product name:	ARC DISC.WIRELESS CHARGER
Trademark:	ISUNBOM, Vonmählen
Model name:	ET.W06, ET.W01, VM-AUR-01, ET.W08, ET.W08S, ET.WX, ET.W02, ET.W03, ET.W05, ET.W04, ET.WP01, ET.WP02, ET.X8, ET.X8S, ET.WS, ET-W7
Standard:	FCC CFR 47 PART 1 , 1.1310
RF Exposure Procedures:	KDB 680106 D01 RF Exposure Wireless Charging App v03

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

Tested by:	Demytha			
	Demi Mu	Aug. 05, 2019	_	
Reviewed by:	131	Blue. Zherg		
	Blue Zheng	Aug. 05, 2019		
Approved by:	Snort ohen			
	Smith Chen	Aug. 05, 2019		

## 1 General Information

#### 1.1 Description of EUT

Product name:	ARC DISC.WIRELESS CHARGER
Brand name:	ISUNBOM, Vonmählen
Model name:	ET.W06
Series model:	ET.W01, VM-AUR-01, ET.W08, ET.W08S, ET.WX, ET.W02, ET.W03, ET.W05, ET.W04, ET.WP01, ET.WP02, ET.X8, ET.X8S, ET.WS, ET-W7
Deference in serial model:	All the model are the same circuit and RF module, except the appearance and model No
Operation frequency:	115–205 kHz
Operational mode:	Wireless charging
Modulation type:	Load modulation
Antenna type:	Coil antenna
Power source:	DC 9V from adapter
Battery:	N/A
Adapter information:	N/A

#### 1.2 Ancillary equipment list

Equipment	Model	S/N	Manufacturer
Adapter	/	/	/
Load	/	/	/
Mobile phone	/	/	/

#### 1.3 Measurement uncertainty

Measurement Uncertainty for a Level of Confidence of 95 %, U=2xUc(y)

Radiated emission(150kHz~30MHz)	± 2.5 dB
Radiated emission(30MHz~1GHz)	± 4.2 dB
Radiated emission (above 1GHz)	± 4.3 dB
Temperature	±1 degree
Humidity	± 5 %

# 2 Testing site

Test Site	Shenzhen Microtest Co., Ltd
Test Site Location	No.102A & 302A, East Block, Hengfang Industrial Park, Xingye Road, Xixiang, Bao'an District, Shenzhen, Guangdong, China
FCC Registration No.:	448573

## 3 List of test equipment

Equipment No.	Equipment Name	Manufacturer	Model	Serial No.	Calibration date	Due date
MTI-E068	Broadband Field Meter	Narda Safety Test Solutions GmbH	NBM- 520	D-1699	2019/4/17	2021/4/16
MTI-E069	Probe E-Field	Narda Safety Test Solutions	EF0691	H-0571	2019/4/17	2021/4/16

#### 4 Test Results

#### 4.4 Maximum permissible exposure

#### 4.4.1 Limit

Frequency range(MHz)	Electric field strength(V/m)	Magnetic field strength(A/m)	Power density(mW/cm2)	Averaging time(minutes)
	(A) Limits fo	r Occupational/Contr	olled Exposure	
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	6
300-1500			f/300	6
1500-100000			5	6
	(B) Limits for Ge	neral Population/Und	controlled Exposure	
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
1500-100000			1	30
f = frequency in MHz * = Plane-wave equivalent power density				

#### 4.4.2 Test Procedures

E and H-field measurements should be made with the center of the probe at a distance of 15 cm surrounding the device and 20 cm above the top surface of the primary/client pair.

These measurements should be repeated for three different client battery levels, 1%, 50%, and 99%.

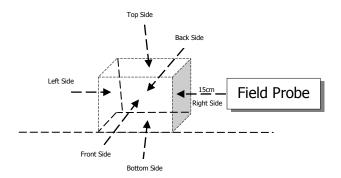
Record the test results.

KDB 680106 D01 RF Exposure Wireless Charging App v03:

- (1) Power transfer frequency is less than 1MHz.
- (2) Output power from each primary coil is less than or equal to 15 watts.
- (3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
- (4) Client device is placed directly in contact with the transmitter.
- (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
- (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.

Note: The device is in compliance with KDB 680106 D01 RF Exposure Wireless Charging App v03 6 conditions.

## 4.4.3 Test Setup



#### 4.4.4 Test Result

	Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)	
<1%	Тор	20	0.448	0.126	
<1%	Bottom	15	0.421	0.111	
<1%	Left	15	0.415	0.124	
<1%	Right	15	0.425	0.108	
<1%	Front	15	0.457	0.128	
<1%	Back	15	0.416	0.109	
Limit			614	1.63	
Margin Limit (%)			0.074%	7.853%	

Maximum permissible Exposure				
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)
<50%	Тор	20	0.422	0.121
<50%	Bottom	15	0.407	0.119
<50%	Left	15	0.424	0.112
<50%	Right	15	0.414	0.118
<50%	Front	15	0.428	0.111
<50%	Back	15	0.412	0.114
Limit			614	1.63
Margin Limit (%)			0.070%	7.423%

Maximum permissible Exposure					
Battery levels	Test sides	Test distance(cm)	E -field(V/m)	H-field(A/m)	
<99%	Тор	20	0.428	0.119	
<99%	Bottom	15	0.427	0.118	
<99%	Left	15	0.422	0.105	
<99%	Right	15	0.418	0.117	
<99%	Front	15	0.426	0.112	
<99%	Back	15	0.416	0.114	
Limit			614	1.63	
	Margin Limit (%)	0.070%	7.301%		

## 4.4.5 MPE Setup photo



----END OF REPORT----