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FCC TEST REPORT

Client Name : SHENZHEN DNS INDUSTRIES CO., LTD.

23/F Building A, Shenzhen International Innovation

Address : Center, No.1006 Shennan Road, Futian, Shenzhen,

China

Product Name : WIRELESS CHARGER

Date : Mar. 06, 2020

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : SHENZHEN DNS INDUSTRIES CO., LTD.

Manufacturer : SHENZHEN DNS INDUSTRIES CO., LTD.

Product Name : WIRELESS CHARGER

Model No. : WD17H, WD17, WD17E, 286565363

Trade Mark : DNS, JUICE

Rating(s) : Input: 5V == 2A, 9V == 1.67A

Wireless Output: 5V == 1A, 9V == 1.1A, 10W Max

Test Standard(s) : FCC Part 1.1310, 1.1307(b)

Test Method(s) : KDB680106 D01 RF Exposure Wireless Charging Apps v03

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 1.1307 & KDB680106 D01 requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Test Dec. 19, 2019~Feb. 26, 2020	
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Prepared By	Anbotek
(Engineer / Dolly Mo)	Anbo
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Reviewer	
(Supervisor / Bibo Zhang)	
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Approved & Authorized Signer	Pr.
(Manager / Tom Chen)	

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1. General Information

1.1. Client Information

Applicant	: SHENZHEN DNS INDUSTRIES CO., LTD.
Address	23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China
Manufacturer	: SHENZHEN DNS INDUSTRIES CO., LTD.
Address	23/F Building A, Shenzhen International Innovation Center, No.1006 Shennan Road, Futian, Shenzhen, China
Factory 1	: HUIZHOU D&S CABLE CO., LTD.
Address 1	Longjin Dongjiang Industry Zone Shuikou, Huicheng, Huizhou, Guangdong, China
Factory 2	D AND S INDUSTRIES (PHILIPPINES) CORPORATION
Address 2	1 to 5 Orient Goldcrest Suntrust Ecotown Building 2, Lot 8 Block 8, Sahud Ulan, Suntrust Ecotown Tanza, Region IV-A, Cavite, Philippines
Factory 3	: HUI ZHOU DNS TECHNOLOGY CO., LTD
Address 3	5 Dongshun South Road, Dongjiang Hi-tech Industrial Park, Zhongkai Hi-tech Zone, Huizhou City, Guangdong, China

1.2. Description of Device (EUT)

nor All	Tell and	ok holy All the
Product Name	: WIRELESS CHARGER	
Model No.	WD17H, WD17, WD17E, 2 : (Note: All samples are the so we prepare "WD17H" for	same except the model name and the appearance,
Trade Mark	: DNS, JUICE	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	: AC 120V, 60Hz for adapte	If Anbotek Anbotek Anbotek Anbotek
Test Sample No.	: 1-2-1(Normal Sample), 1-2	2-2(Engineering Sample)
	Operation Frequency:	110.1-205KHz
Product	Modulation Type:	MSK Anbourek Anbotek
Description	Antenna Type:	Inductive loop coil Antenna
	Antenna Gain(Peak):	0 dBi

Remark: 1) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

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1.3. Auxiliary Equipment Used During Test

Adapter	:	Manufacturer: SHENZHEN DNS INDUSTRIES CO., LTD.					
		M/N: A2013	or core				
		Input: 100-240V 50-60Hz 0.7A					
		Output: 3.6-6.5V == 3A/ 6.5-9V == 2A/ 9-12V == 1.5A					

1.4. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1	Magnetic field meter	NARDA	ELT-400	423623	Dec. 24, 2018	3 Year
2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year
3	H-Field Probe	Narda	HF3061	Q15835	Nov.17, 2017	3 Year

1.5. Measurement Uncertainty

Radiation Uncertainty	:	Ur = 3.9 dB (Horizontal)
5		Ur = 3.8 dB (Vertical)
		abotek Anbotek Anbotek Anbotek Anbotek
Conduction Uncertainty	:	Uc = 3.4 dB

Code: AB-RF-05-a

400-003-0500 www.anbotek.com



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1.6. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, September 27, 2019.

ISED-Registration No.: 8058A

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A, March 07, 2019.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China. 518102



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2. Measurement and Result

2.1. Requirements

According to the item 5.b) of KDB 680106 D01v03:

Inductive wireless power transfer applications that meet all of the following requirements are excluded from submitting an RF exposure evaluation.

- 1) Power transfer frequency is less that 1 MHz
- 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 inserted in or 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.

Limits For Maximum Permissible Exposure (MPE)

_40	V 6.1.	0.0		V
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	ed Exposure	
0.3-1.34	614	1.63	*(100)	30
1.34-30	824/f	2.19/f	*(180/f ²)	30
30-300	27.5	0.073	0.2	30
300-1500	1	1	f/1500	30
1500-100,000	1	1	1.0	30

F=frequency in MHz

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).



Code: AB-RF-05-a

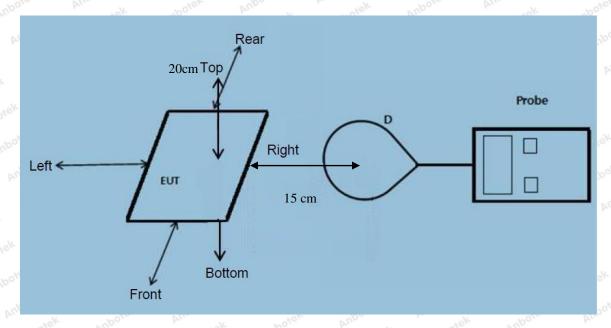
400-003-0500 ww.anbotek.com

⁼Plane-wave equivalent power density



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2.2. Test Setup



Note: Measurements should be made at 15 cm surrounding the EUT and 20cm above the top surface of the EUT.

2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at required test distance which is between the edge of the charger and the geometric center of probe.
- The highest emission level was recorded and compared with limit as soon as measurement of each points
- (A, B, C, D, E) were completed.(A is the right, B is the back, C is the left, D is the front, and E is the top.)
- 4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

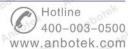
Remark

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

2.4. Test Result

- 2.4.1. Equipment Approval Considerations item 5.b of KDB 680106 D01 v03.
- 1) Power transfer frequency is less that 1 MHz
- The device operate in the frequency range 110.1-205KHz.
- 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 10W.

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- 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
- The transfer system including a charging system with only single primary coils is to detect and allow only between individual pairs of coils.
- 4) Client device is inserted in or placed directly in contact with the transmitter
- Client device is placed directly in contact with the transmitter.
- 5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion)
 - The EUT is a Mobile Power Pack with Wireless Charger
- 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.
- Conducted the measurement with the required distance and the test results please refer to the section 2.4.



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2.4.2. Environmental evaluation and exposure limit according to FCC CFR 47 part 1, 1.1307(b), 1.1310

Temperature:	23.1°C	Relative Humidity:	52 %
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

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

	May			20	607	1	The same of the sa	100
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
401	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	Anbo A	Botek	Cipote	D Ame	botek E	(V/m)	(V/m)
Anapotek	Aupolek	Anbo	r Anboi	ek Anb	zek bi	abotek	Aupoles	Anberrotek
1%	110.1-205	0.23	0.41	0.38	0.44	0.55	307	614
ek nb	otek Anbot	E. AUG	motel	Anborek	Aupo.	h. abore	k Anbore	K VILL
Jek K.	nbotek An	boye. b	notek	Anbotek	Anbo	ek anb	otek Anbot	
50%	110.1-205	1.24	1.71	1.26	1.55	1.30	307	614
Aupo,	A. abotek	Anbore	VUr.	odna Ne	Hek An	00, b	, abotek	Aupore.
Anbo. rek	Anbotek	Anbore.	Ann	otek A	botek	Anbo. stek	A. abotek	
99%	110.1-205	2.44	2.05	2.33	2.75	2.71	307	614
Anbe	*ek -ut	lotek Al	bose	Yun	Anbotek	Vupo.	ek abote	K Ani
Ctond b	ipo. stek	nbotek	Anbore.	Anshotek	Anbore	K Anbe	rick with	
Stand-b	110.1-205	0.29	0.51	0.34	0.47	0.50	307	614
Anbotek	Aupo.	hotek	Anbore	YUL VIOL	wo tek	inpotek	Aupo	nbotek

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

Battery power	Frequency Range (KHz)	Test Position A	Test Position B	Test Position C	Test Position D	Test Position E	Reference Limit (A/m)	Limits Test (A/m)
tek vup	otek Anbo	e. true	botek	Anborok	Anbo	Motek	Aupore	ok Mus
1%	110.1-205	0.035	0.051	0.067	0.044	0.055	0.815	1.63
locatek	anbotek	Anbore	Amabotek	Anbore	Anbo	otek or	botek An	oore
Anbo	Anbotek	Anbore	F 200,	ek Anb	PLO VI	-otek	Anbotek	Anbor
50%	110.1-205	0.22	0.43	0.21	0.36	0.40	0.815	1.63
K Anb	atek Anbot	ek Anb	Die Vi	abotek	Aupoten	Anbasotek	Anborek	Anbo
S. Vun	hotek An	bosek b	upo, rek	photek	Anbore	K Pun	ek Anbore	L. DIL
99%	110.1-205	0.47	0.51	0.53	0.31	0.29	0.815	1.63
	Anna	Anborek	Pupo,	ek who	rek Ani	oter An	potek.	inpotek
Anboron	Ama	Anbotek	Aupor	rek by	botek	Aupoton	Aur	Anbotek
Stand-b y	110.1-205	0.44	0.20	0.31	0.54	0.33	0.815	1.63
k y Anbo	ie. Yun	otek at	potek	Aupo,	A. abotek	Anbore.	k Ans hotel	e an

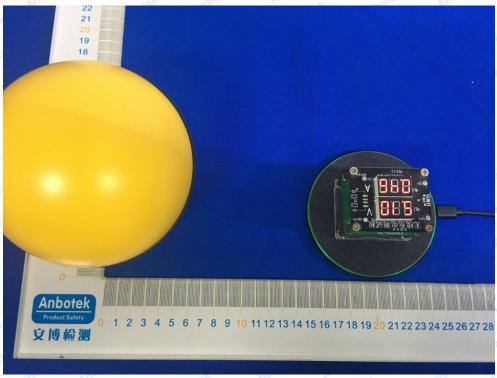
Remark: All the conditions have been tested. It is found that 10W is the worst mode, and the data in the report only reflects the worst mode.

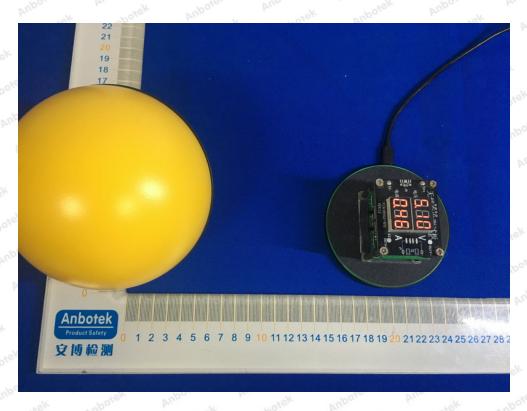


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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement

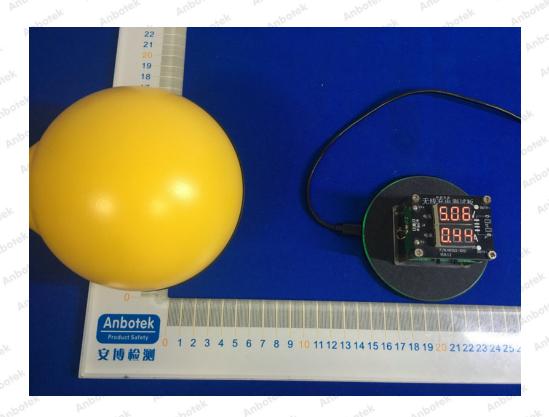


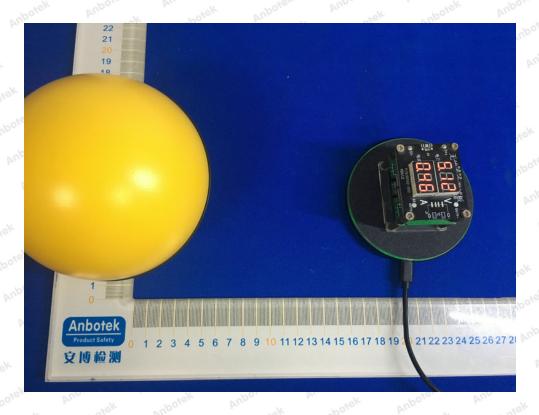


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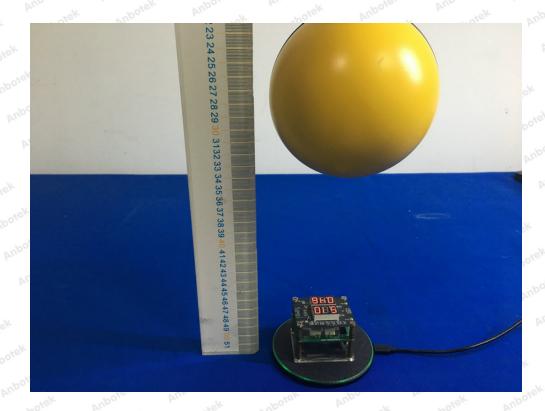




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----- End of Report -----