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FCC TEST REPORT

DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY Client Name

CO.,LTD.

262 shidan Rd.,3rd industrial Area, Juzhou, Shijie Town, Address

Dongguan city, China

Product Name Wireless charge PAD

Jul. 22, 2019 Date

Shenzhen Anbotek Compliance Laboratory Limited





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TEST REPORT

Applicant : DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

Manufacturer : DONGGUAN TOGRAN ELECTRONICS TECHNOLOGY CO.,LTD.

Product Name : Wireless charge PAD

Model No. : TP007

Trade Mark : N.A.

Rating(s) : Input: 5V === 1A

Output: 5W

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 Receipt			Jul. 04, 2019	
Date of Test	rek Ambol	rek Anbos tek Ju	ul. 04~15, 2019	
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	Anbotek Product Safety	Anbotek Anbo	Dolly mo	Anbotek Anbot
Anboten Anbo Anbo	Though Say Congression	(Eng	gineer / Dolly Mo)	k Anbotek An
Anbotek Anbot	Approved *	ek Anbotek S	Snowy Meng	
Reviewer	ok hotek and	poter And	Apotek A	upor All
		(Super	visor / Snowy Meng	I) Anboten Anbo
		Anbotek Anbo	sally zhang	
Approved & Authorized	Signer	k notek	V Vina	rek abotek
	Anbotek Anbot	(Man	ager / Sally Zhang)	stek subotek

Shenzhen Anbotek Compliance Laboratory Limited





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1. General Information

1.1. Client Information

no ho	76. 70	12 D. 1
Applicant	DONGGUAN TOGRAN ELECTRONICS TECHNOLO	OGY CO.,LTD.
Address	262 shidan Rd.,3rd industrial Area, Juzhou, Shijie To China	own, Dongguan city,
Manufacturer	DONGGUAN TOGRAN ELECTRONICS TECHNOLO	OGY CO.,LTD.
Address	262 shidan Rd.,3rd industrial Area, Juzhou, Shijie To China	own, Dongguan city,
Factory	DONGGUAN TOGRAN ELECTRONICS TECHNOLO	OGY CO.,LTD.
Address	262 shidan Rd.,3rd industrial Area, Juzhou, Shijie To China	own, Dongguan city,

1.2. Description of Device (EUT)

Product Name	:	Wireless charge PAD	botek Anbotek Anbote Anbotek
Model No.	:	TP007	Anbotek Anbotek Anbotek Anbotek
Trade Mark	:	N.A.	Anbotek Anbotek Anbotek Anbotek
Test Power Supply	:	AC 120V, 60Hz for adapter	atek Anbotek Anbotek Anbotek An
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2((Engineering Sample)
		Operation Frequency:	110.1~205KHz
Product		Modulation Type:	PWM Annotes Annotes Annotes
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: ZTE
\$ \$0		M/N: STC-A2050I1000USBA-C S/N: 201202102100876 Input: 100-240V~ 50/60Hz, 0.3A
		Output: DC 5V, 1000mA
		Anbo ak notek Anbore Anb tek nbotek Anbo
Mobile Ph	ione :	iPhone 8

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	1 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)
		Ur = 3.8 dB (Vertical)
		abotek Anbotek Anbotek Anbotek Anbote
Conduction Uncertainty	:	Uc = 3.4 dB

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 30, 2018.

ISED-Registration No.: 8058A-1

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-1, March 07, 2019.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

Shenzhen Anbotek Compliance Laboratory Limited





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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)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)						
(A) Limits for Occupational/Controlled Exposures										
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	/	/	1.0	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).



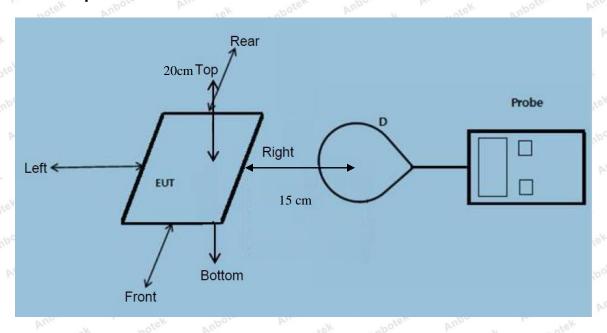
400-003-0500

^{*=}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.
- 3) The highest emission level was recorded and compared with limit as soon as measurement of each
- (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.)

Email:service@anbotek.com

4) The EUT was measured according to the dictates of KDB 680106 D01 v03.

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 5W.

Shenzhen Anbotek Compliance Laboratory Limited

Tel:(86)755-26066440 Fax:(86)755-26014772

Code: AB-RF-05-a

400-003-0500



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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 2.4.2



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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:	23.4°C	Relative Humidity:	55%
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

Battery	Frequency	Test M	Test	Test	Test	Test	Reference	Limits
power	Range (KHz)	Position A	Position B	Position C	Position D	Position E	Limit (V/m)	Test (V/m)
nbotek	Anbotok	Anbor	Anbotek	Anbor	No. Mup.	botek	Aupotek A	uporo sek
1%	110.1~205	0.29	0.34	0.26	0.47	0.98	307	614
k abote	K Anbote	K VUD	otek A	botek	Aupora	All	Anbotek	
tek out	otek Anbe	ren Yu	note ^K	Anbotek	Aupore	Pur apoli	K Aupoten	N AUG
50%	110.1~205	1.52	1.31	1.69	1.04	1.5	307 , 30	614
upo	abotek	Aupote.	Anna	Anbote	k Anbo	rek VII	botek Ar	
Anbo	Anbotek	Anbote	K NO	lek Ant	otek Ar	por	an abotek	Anboten
99%	110.1~205	2.34	2.27	2.02	2.80	2.44	307	614
	rek abo	ek Aup	ore. W	io tek	anbotek	Aupor	k All botek	
tek Pup	on by	botek	hpoten	Andrek	Anbotek	Anbot	otek Anbol	ek P
Stand-by	110.1~205	0.15	0.54	0.69	0.53	0.82	307	614
	Anbor	An abotek	Anbotek	Anbo	stek vo	potek	inbote An	



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

0.71		101	10 V		-10	4.00		La Car
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
V.	Range	Position	Position	Position	Position	Position	otek Limit and	Test
power	(KHz)	AnbAen	A'B note	Cambot	sk D Aup	E Vur	(A/m)	(A/m)
Anbo	Anbotek	Anbore	ak An	otek An	ootek p	nbo	nbotek	Aupote
1%	110.1~205	0.047	0.042	0.055	0.030	0.053	0.815	1.63
	otek vup.	rek Ani	poter P	nbo	Anbotek	Anbore	Ant abotek	Ant
oten An	otek n	nbotek	Anbore	Anshotek	Anbotel	Anbo	tek who	rek l
50%	110.1~205	0.24	0.53	0.46	0.33	0.46	0.815	1.63
Anbotek	Anbore	Annhotek	Anbote	ak Anbo	otek A	abotek P	upote A	, botek
Anbotek	K Aupo	anboth	K Anbo	ye. Au	botek	Anbotek	Anbot	A. abote
99%	110.1~205	0.36	0.35	0.32	0.29	0.24	0.815	1.63
otek Ant	otek Anbo	stek Av.	nbotek	Anboten	Anbo	Anbotel	Anbore	ek An
abotek	Anbotek A	lpc ofek	Anbotek	Anbore	K And	rek Aupo	Yek Anbo	-tek
Stand-by	110.1~205	0.30	0.16	0.37	0.41	0.22	0.815	1.63
	Anbotek	Aupor	k Vin	rek Pup	oter A	lo- K	anbotek	Anbore

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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement





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