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FCC TEST REPORT

Client Name : Boost Auto Parts LLC

Address Boost Auto Parts 2948 Kirk Road.Suite 106, #324 Aurora

Illinois, United States 60502

Product Name : Wireless charger modules

Date : Sept. 15, 2020





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TEST REPORT

Applicant : Boost Auto Parts LLC

Manufacturer : Qi Quick Technology Co,Ltd

Product Name : Wireless charger modules

Model No. : 9906PCB-2

Trade Mark : N.A.

Rating(s) Input: DC 12V, 2A Output: 15W 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 Receipt	Aug. 25, 2020
Date of Test	Aug. 25~Sept. 07, 2020
	Yilia Zhong
Prepared By	abotek Anbote Anbote
Anbotek Anbotek Anbotek Anbo	(Engineer / Yilia Zhong)
	Bib Thang
Reviewer	botek Anbore And Otek Anborek Anbo
oter And otek Anbotek Anbo	(Supervisor / Bibo Zhang)
	King Kong Jia
Approved & Authorized Signer	Mill Joseph Mills and Mills about
Anborek Anbore Ant botek Anbore	(Manager / Kingkong Jin)

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1. General Information

1.1. Client Information

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Applicant	: Boost Auto Parts LLC
Address	Boost Auto Parts 2948 Kirk Road.Suite 106, #324 Aurora Illinois, United States 60502
Manufacturer	: Qi Quick Technology Co,Ltd
Address	The sixth building in Jinzhu Industrial Zone in the village of Wuling, Qingxi Township, Dongguan, Guangdong Province, China.
Factory	: Qi Quick Technology Co,Ltd
Address	The sixth building in Jinzhu Industrial Zone in the village of Wuling, Qingxi Township, Dongguan, Guangdong Province, China.

1.2. Description of Device (EUT)

Product Name	:	Wireless charger modules	k Anbotek Anbotek Anbotek Anbotek
Model No.	:	9906PCB-2	otek Anbotek Anbotek Anbotek Ant
Trade Mark	:	N.A. Moorek	inbound Ambotek Anbotek Anbotek
Test Power Supply	:	DC 12V	Ambotek Anbotek Anbotek Anbotek
Test Sample No.	:	1-2-1(Normal Sample), 1-2	-1(Engineering Sample)
		Operation Frequency:	110.1-205KHz
Product		Modulation Type:	MSK
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: Anker
V.		M/N: A2013 Input: 100-240V-0.7A 50-60Hz
		Output: 3.6-5.5V 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. 23, 2019	1 Year
K	2	E-Field Probe	Narda	EF0391	Q15221	Nov.17, 2017	3 Year
03/5	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 Anbotek
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 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)

Frequency range 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	f/300	6
1500-100,000	1	1	5	6
	(B) Limits for Genera	l Population/Uncontrolle	d 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).

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Code: AB-RF-05-a

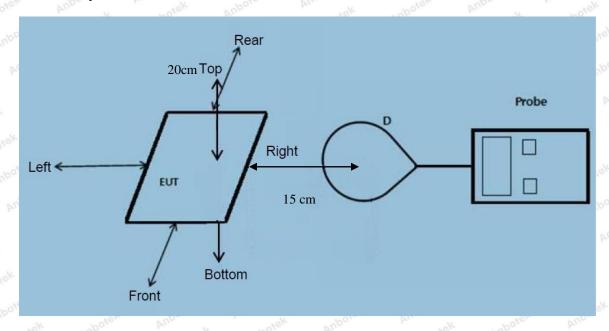
Hotline 400-003-0500 www.anbotek.com

^{*=}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.
- 3) 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 15W.

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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 three primary coils is to detect and allow only between individual pairs of coils. Only one coil works at a time.
- 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 Car 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:	23.6°C	Relative Humidity:	55%
Pressure:	1012 hPa	Test Voltage:	DC 12V

E-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 (V/m)	Limits Test (V/m)
sk Mup,	PLOS VILLE	otek p	nbotek	Aupo.	a nbotek	Anbore	W PUL	ek
1%	110.1~205	0.19	0.28	0.61	0.48	0.95	307	614
abotek	Anboten	Anbabek	Anbotek	Anbor	rek bi	potek	rupoten Vi	
A. Apotek	Anbore	Vur Potel	Anbot	Sk VUP	tek	nbořek	Aupore	Vun Pose
50%	110.1~205	1.15	1.50	1.65	1.32	1.64	307	614
k who	tek Anbot	Anu.	botek	Anbotek	Aupo,	Ar. nbotel	Anbore	
rek h	ibotek Ani	ole. b	hotek	Anbotek	Aupo	k "Up,	otek Aupor	ak 1
99%	110.1~205	2.23	2.38	2.89	2.70	2.73	307	614
iupoin rek	Anabotek	Aupoten	Ano	k Anbo	rek An	or b	abotek	
Aupo, rek	an abotek	Anboren	Y VUD	otek A	botek	Aupo, tek	photek	Anbore
Stand-by	110.1~205	0.07	-0.06	0.92	0.67	0.47	307	614
Aupo	ok bi.	otek Ar	poter	rup, otek	anbotek	Anboro	ok whole	



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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)
ek Ant	lotek Yupe	rek by	nbotek	Anbore	Ann	Anbote	Aupo.	ek P
1%	110.1~205	0.42	0.56	0.15	0.16	0.25	0.815	1.63
botek.	Anbotek	Aupor	Air	Anbote	K Ano.	work p	obotek Ar	por
Ann	Anborek	Aupor	k 2000	lek bup	Ole b	hotek	Anbotek	Vupo.
50%	110.1~205	0.46	0.72	0.24	0.32	0.75	0.815	1.63
K Anu	otek Anbo	ek Aup	o. A	abotek	Anbore.	Andhotek	Anbotek	An
VK AME	Polek Vi	potek p	upo.	nbotek	Anbore	y Vun	rek Anbol	SIE
99%	110.1~205	0.06	0.80	0.55	0.42	0.43	0.815	1.63
	Antorotek	Anbotek	Vupo,	ek alb	stek Ar	poter A	rotek.	anbotek
Anboren	Anachek	Anbotel	Aupo	rek by	obotek	Anbotes	VUIT-	Anbore
Stand-by	110.1~205	0.43	0.80	0.56	0.76	0.15	0.815	1.63
4 Anbo	ten Aupo	*ek	botek	Anboro	bu.	Anboten	Alupa M	K.

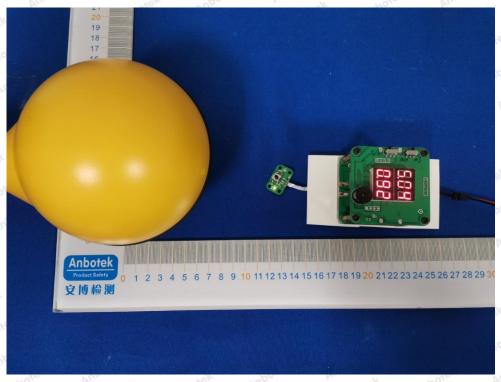
Note: (1)All the situation has been tested, only the worst situation (Wireless Output: 15W) was recorded in the report.

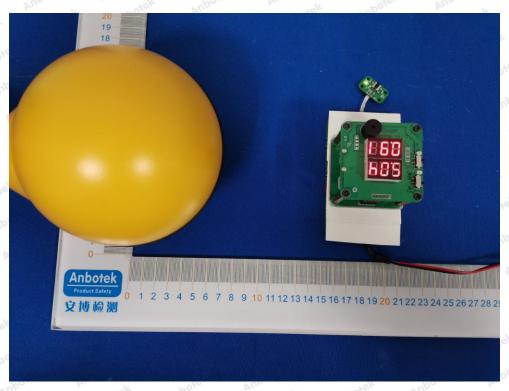


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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of MPE Measurement

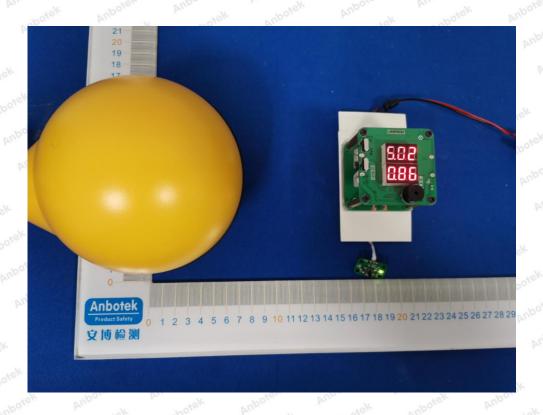


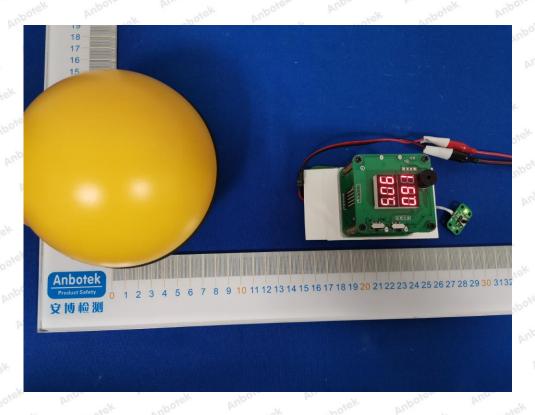


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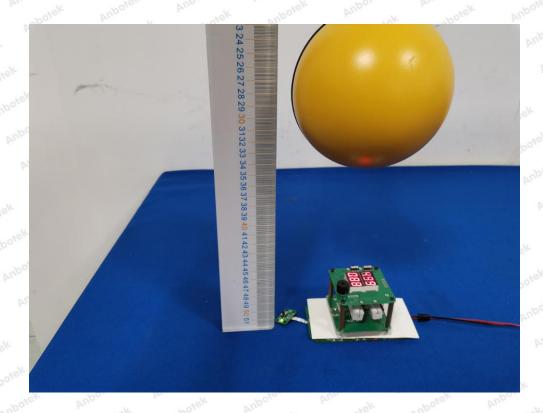
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