

FCC TEST REPORT

For

Carfook (Shenzhen) Technology Co., Ltd.

Car Charger

Model No.: ZLPX-B

Prepared For : Carfook (Shenzhen) Technology Co., Ltd.

Address : NO 29, Shenzhu Road ,Henggang Street, Longgang District, Shenzhen,

China

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

Address : 1/F, Building D, Sogood Science and Technology Park, Sanwei

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Report Number : SZAWW190111010-02

Date of Test : Jan. 11, 2019

Date of Test : Jan. 11~Feb. 22, 2019

Date of Report : Feb. 22, 2019



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TEST REPORT

Applicant : Carfook (Shenzhen) Technology Co., Ltd.

Manufacturer : Carfook (Shenzhen) Technology Co., Ltd.

Product Name : Car Charger

Model No. : ZLPX-B

Trade Mark : N.A.

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

Output: 5W/7.5W/10W

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	Ans.	Jan. 11~17eb. 22, 2	2019	
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Ar atek Anbote 9	3	2012 .1.15	49%	
Prepared By	Product Safety	Anbotek Ahotek	Anbotek	Anbotek
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Approved & Authorized Signer	tek nbotek	(Manager / Sally Z	hano)	pore.
		(Manager / Sarry Z	nang)	



1. General Information

1.1. Client Information

100	AC TOTAL TOT	
Applicant	Carfook (Shenzhen) Technology Co., Ltd.	
Address	NO 29, Shenzhu Road ,Henggang Street, Longgang Distr	ict, Shenzhen, China
Manufacturer	Carfook (Shenzhen) Technology Co., Ltd.	Anbotek Anbotes A
Address	NO 29, Shenzhu Road ,Henggang Street, Longgang Distr	ict, Shenzhen, China
Factory	Carfook (Shenzhen) Technology Co., Ltd.	Anbotek Anbote
Address	NO 29, Shenzhu Road ,Henggang Street, Longgang Distr	ict, Shenzhen, China

1.2. Description of Device (EUT)

	120 m			
	Product Name	:	Car Charger	poter Anbotek Anbotek Anbotek
	Model No.	:	ZLPX-B	Anbotek Anbotek Anbotek Anbotek
	Trade Mark	•	N.A. Milbotek Anbu	Anbotek Anbotek Anbotek Anbo
	Test Power Supply	:	AC 120V, 60Hz for adapter	Anbotek Anbotek Anbotek Ar
	Test Sample No.	:	S1(Normal Sample), S2(Enginee	ring Sample)
			Operation Frequency:	110.1~175KHz
	Product		Modulation Type:	MSK MSK
Desc	Description	ription	Antenna Type:	Inductive loop coil Antenna
			Antenna Gain(Peak):	0 dBi
	D 1) E		1-4-11-1 f4 11-41-4	C C (1

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

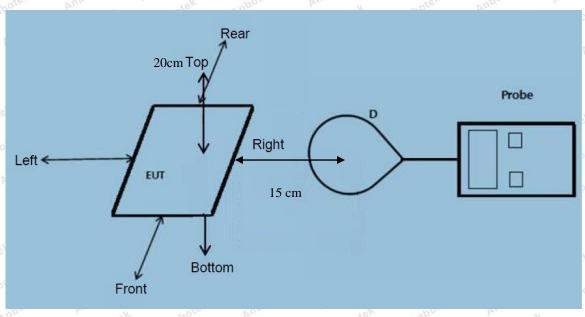
1.3. Auxiliary Equipment Used During Test

0,0		TON TON THE STATE OF THE STATE
Adapter	:	Model: A2013
		Input: 100-240V~ 50-60Hz 0.7A
		Output: 3.6-6.5V=== 3A/ 6.5-9V=== 2A/ 9-12V=== 1.5A
		botek Anbotek Anbotek Anbotek Anbotek Anbotek Anbotek Anbote
Mobile phone	:	Samsung Galaxy S7

1.4. Description Of Test Setup







Note: Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

FCC ID: 2ASJC-ZLPXB

1.5. Test Equipment List

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

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, July 31, 2017.

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, June 13, 2016.

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



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)

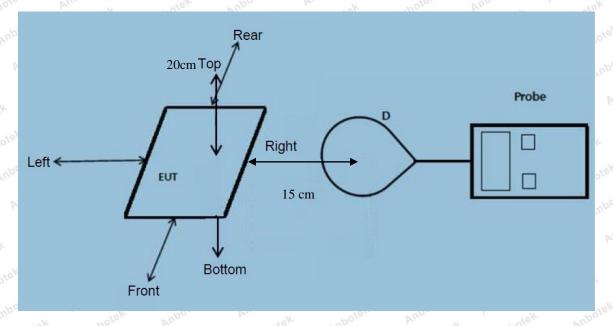
Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm²)	Averaging time (minutes)
	(A) Limits for Occ	cupational/Controlled Ex	posures	
0.3-3.0	614	1.63	*(100)	6
3.0-30	1842/f	4.89/f	*(900/f ²)	6
30-300	61.4	0.163	1.0	6
300-1500	1	1	f/300	6
1500-100,000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

⁼Plane-wave equivalent power density

2.2. Test Setup



Note:Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device

2.3. Test Procedure

- 1) The RF exposure test was performed in anechoic chamber.
- 2) The measurement probe was placed at test distance (15 cm) 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 110.1~175KHz
 - 2) Output power from each primary coil is less than 15 watts
 - The maximum output power of the primary coil is 10W.
- 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.
- The EUT E-Field Strength levels at 15 cm & The EUT H-Field Strength levels at 15 cm are less than 50% the MPE limit.

The test results please refer to the section 2.4.2

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

Temperature:	22.8° C	Relative Humidity:	54 %
Pressure:	1012 hPa	Test Voltage:	AC 120V, 60Hz for adapter

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

And Dottotek	Frequency	Test	Test	Test M	Test	Test	Reference	Limits
Battery	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	ek A Ant	В	C	\mathbf{D}^{ek}	ANE TON	(V/m)	(V/m)
Yer Anb	notek Ar	botek 1	'upore	Am	Anbotek	Aupo	ek nbo	Ick by
1%	110.1~175	0.37	0.25	0.27	0.54	0.40	307	614
Anbotek	Anbo	Anbotek .	Anbote	0.27	otek Ar	botek Ar	por A	nbotek
Anbotek	Anbotek	Anbote	K Anbo	tek Vu	nbotek	Anbotek	Anborotek	Anbotek
50%	110.1~175	1.86	1.25	1.34	1.50	1.67	307	614
tek Anbo	rek Aupo.	stek k.	nbotek	bes.	Ans	Anbotek	Anbor	ek Air
botek Ar	poter An	bo tek	Anbotek	Anboten	A.n.	ek Anbot	ek Aupo	atek A
99%	110.1~175	2.11	2.42	2.37	2.52	2.40	307	614
And	Anbotek	Anbor	Allo	sk Aup.	Jek 2.52	po notek	anbotek	Anbore
Annotek	Anbotek	k Vupore	150	potek P	upote	Andotek	Anbotek	Anbors
Stand-by	110.1~175	0.53	0.46	0.55	0.34	0.48	307	614
Ant Ant	orek Ani	otek A	upo.	A. nbotek	Anboten	K And	anbot anbot	ek An'



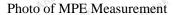
H-Field Strength at 15 cm surrounding the EUT and 20cm above the top surface of the EUT

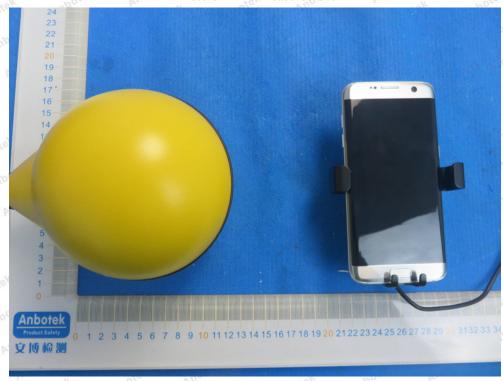
		VAV.	1/4.		8.40771	- // /		17.7
Battery	Frequency	Test	Test	Test	Test	Test	Reference	Limits
	Range	Position	Position	Position	Position	Position	Limit	Test
power	(KHz)	A M	В	Cok	A.Dores	E	(A/m)	(A/m)
10/	nbotek P	upoter	Anbotek	Anbotek	Anbot	rek Vu	otek Anb	otek
1%	110.1~175	0.045	0.063	0.079	0.046	0.077	0.815	1.63
Anbore	Annabotek	Anbotek	Anbore	otek v.	ootek	inbote. A	,notek	Anbotek
Anbo	k anbotel	Anbot	Sr. Yur	abotek	Anbotek	Anbore	Am	Anbot
50%	110.1~175	0.33	0.35	0.44	0.36	0.51	0.815	1.63
otek Anb	ore Vur	botek	Anbotek	Anboto	A. nbote	k Anbote	-K AND	tek
nbotek A	upor b	Anbotek	Anbotek	Anbo	ek Anb	otek Aup	ick Vur	abotek
99%	110.1~175	0.24	0.53	0.61	0.57	0.46	0.815	1.63
Anbotek	Anbote	And	ek Anb	stek An'	orek b	hotek	Anboten	Anboe
Anbotel	Anbor	rek an	otek p	nbotek	Anbo	Anbotek	Aupore	Anv
Stand-by	110.1~175	0.42	0.48	0.37	0.46	0.35	0.815	1.63
-otek	abotek A	10010	An botek	Anbotek	Anbox	rek apo	tek Anbe	16,

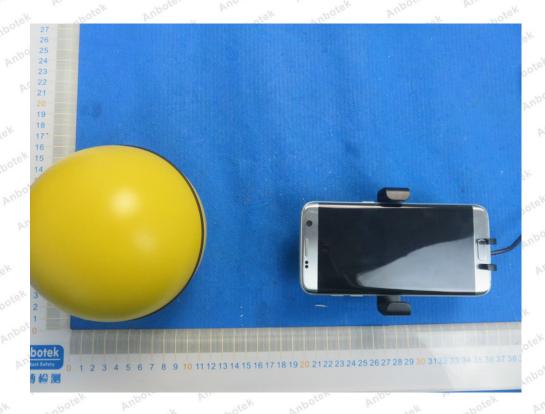
Remark: All the conditions have been tested. It is found that 10W is the worst mode, and the data in the report only reflects the worst mode.



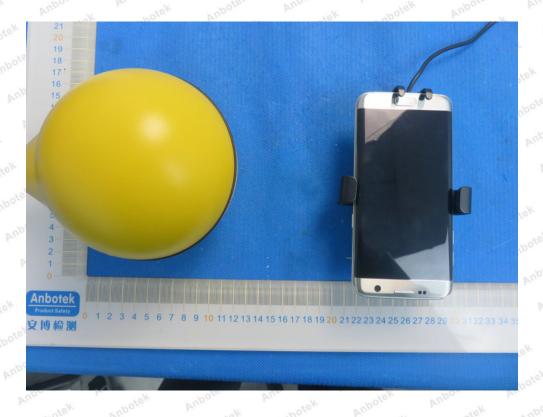
APPENDIX I -- TEST SETUP PHOTOGRAPH

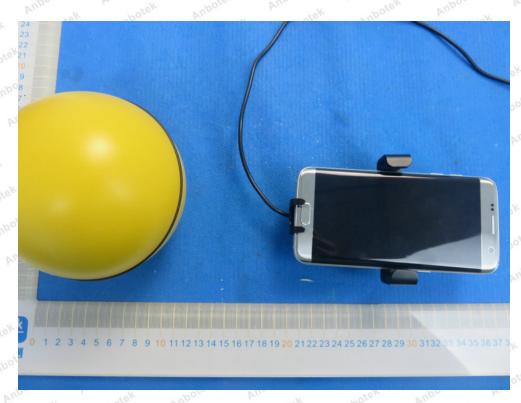




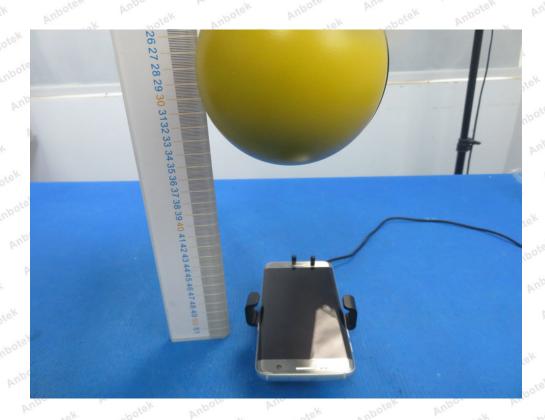












Shenzhen Anbotek Compliance Laboratory Limited

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